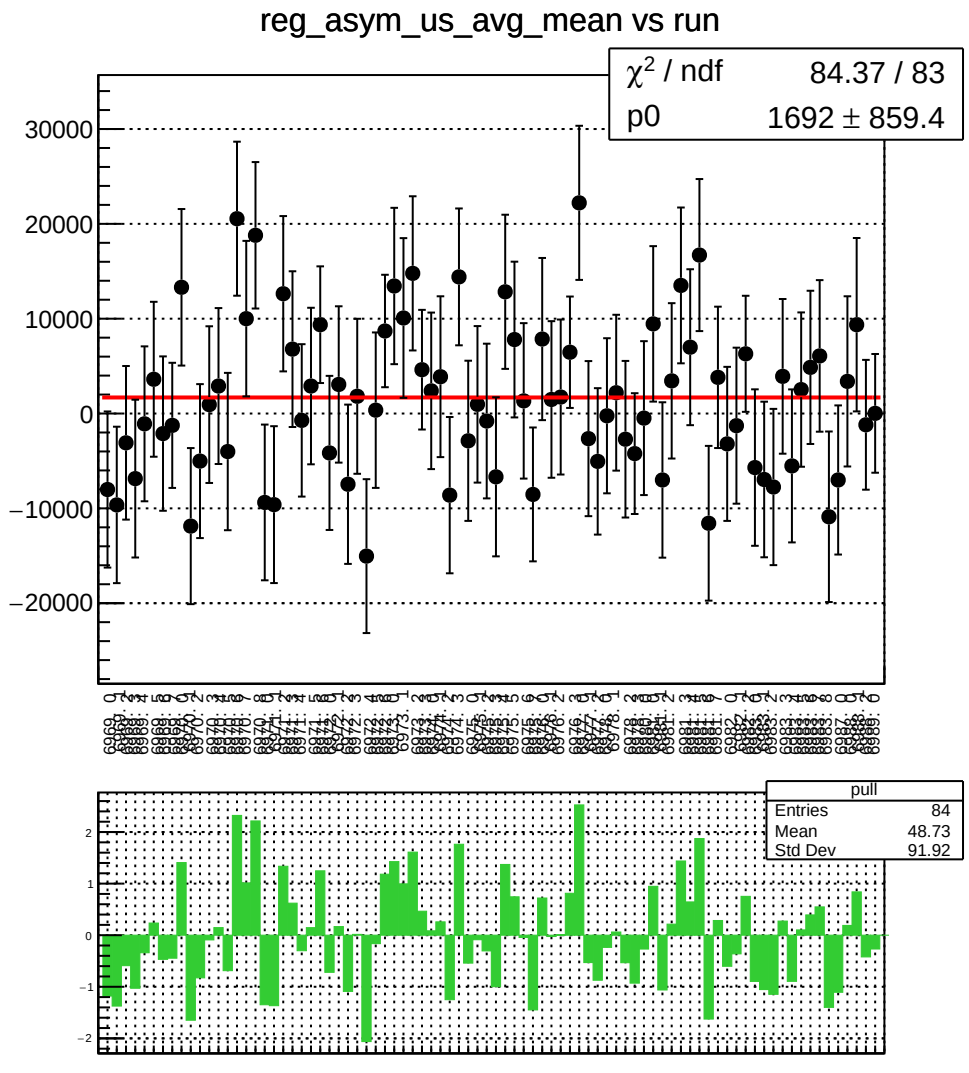
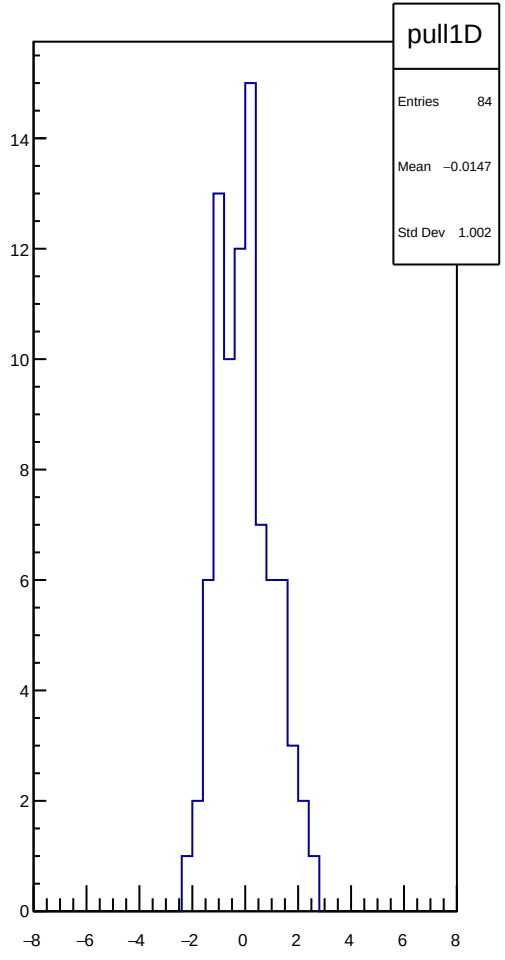
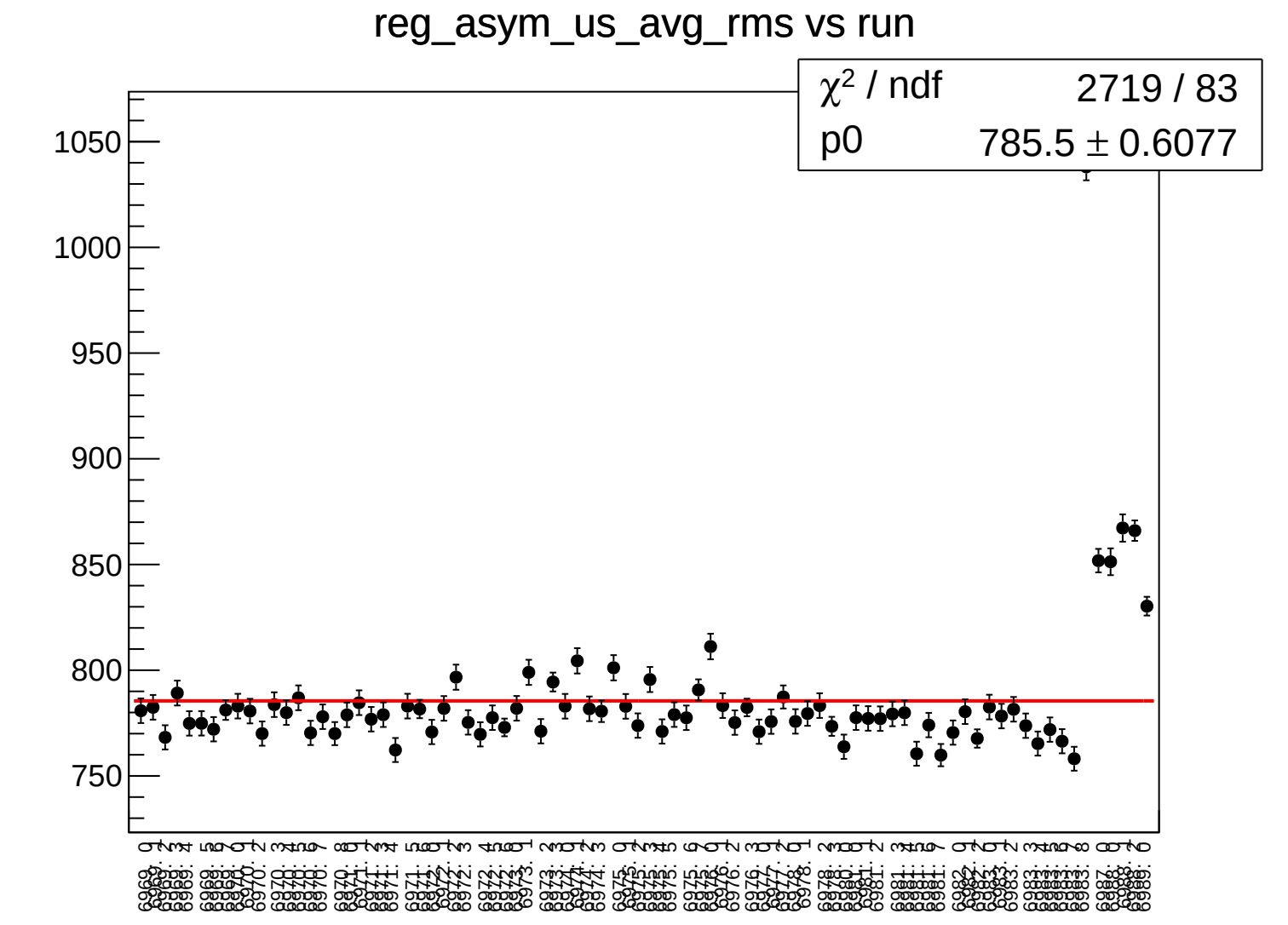
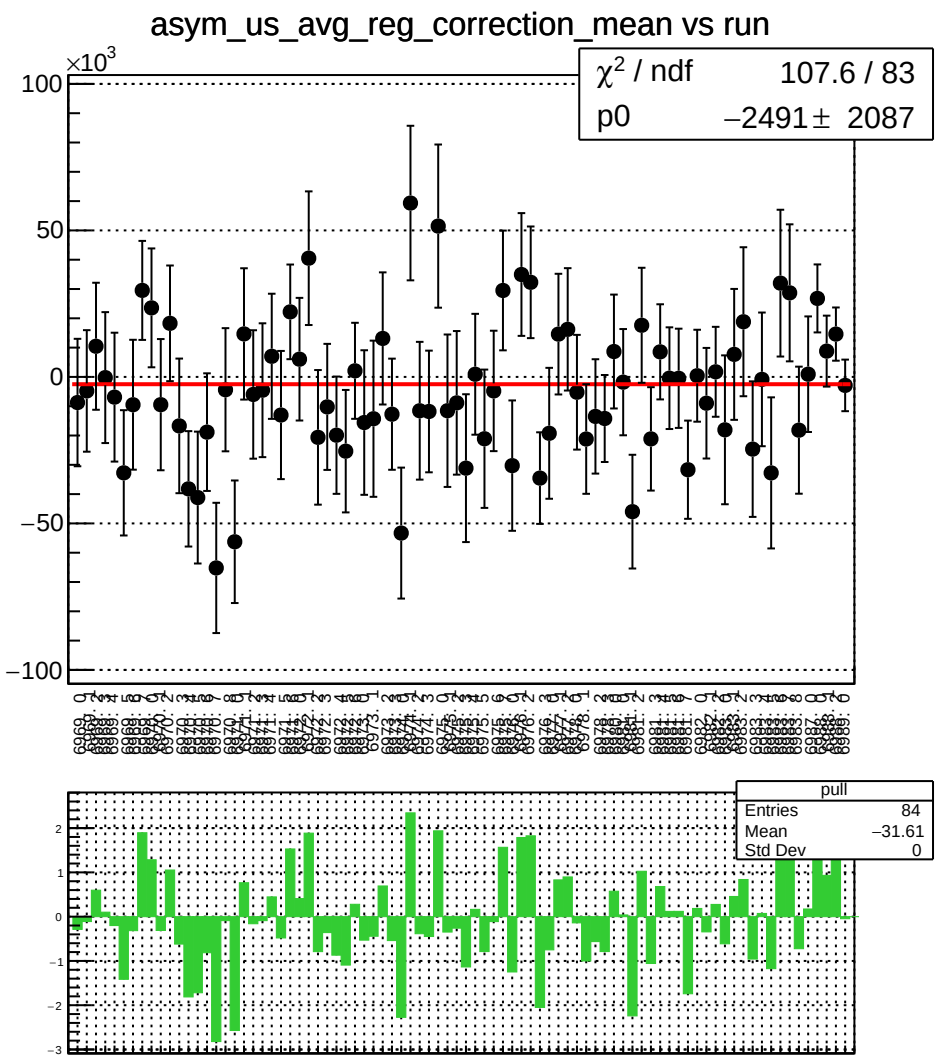
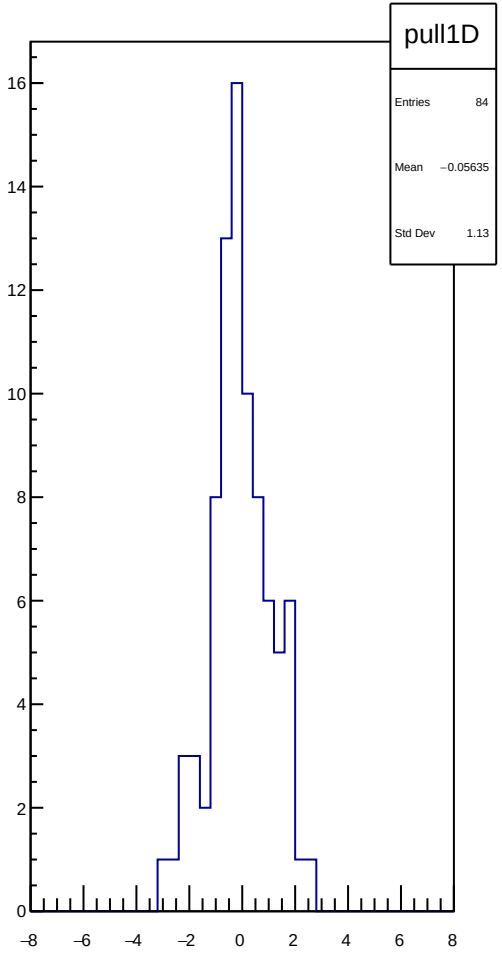
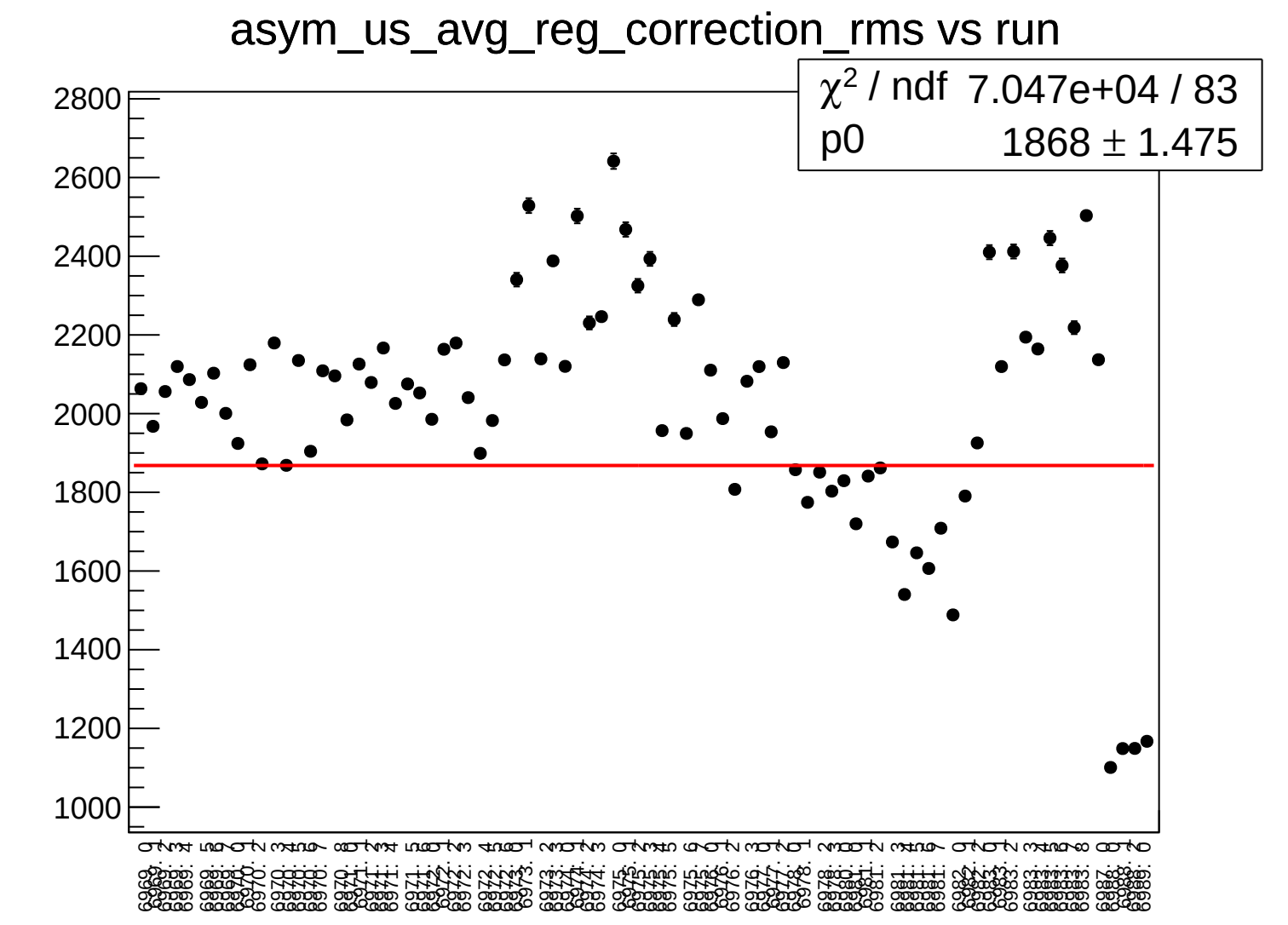

reg_asym_us_avg_mean vs run
χ² / ndf 84.37 / 83
p0 1692 ± 859.4
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 48.73
Std Dev 91.92
2
1
0
−1
−2

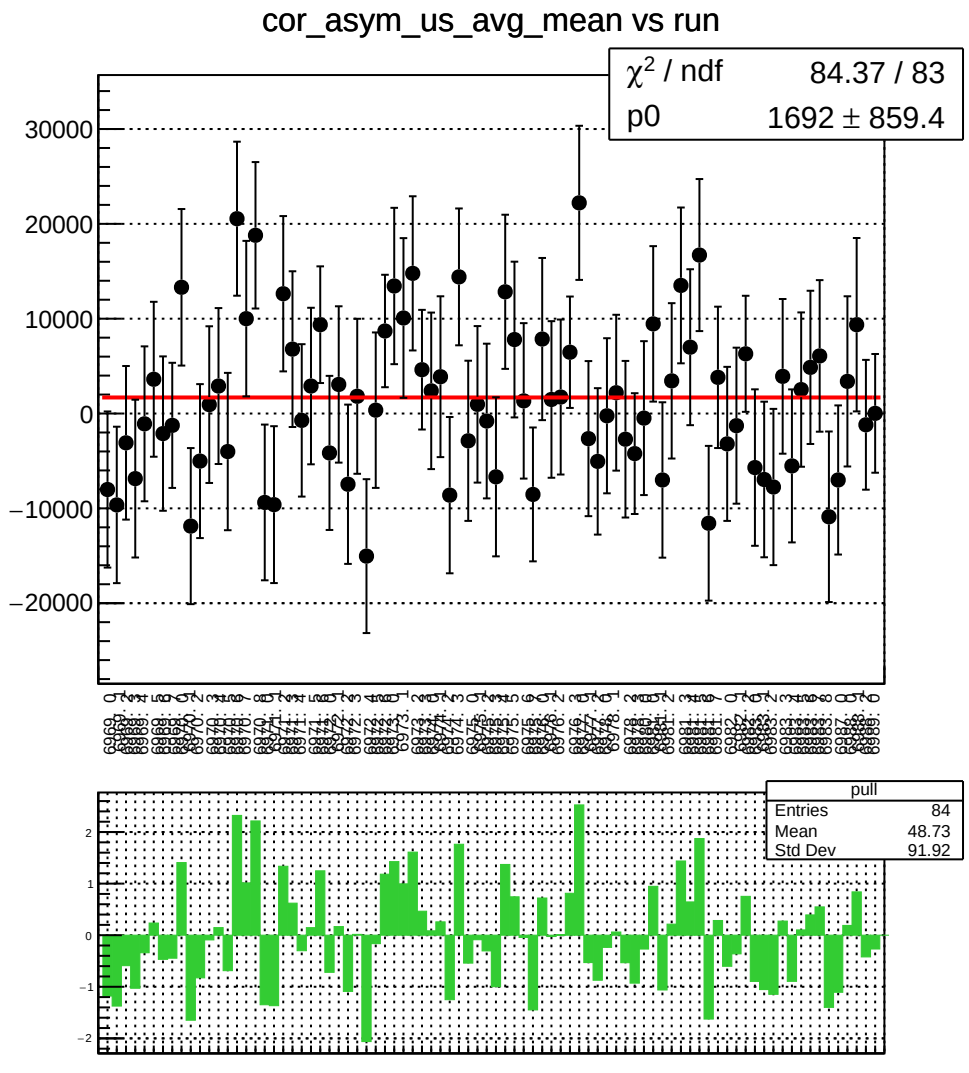

pull1D
Entries 84
Mean −0.0147
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

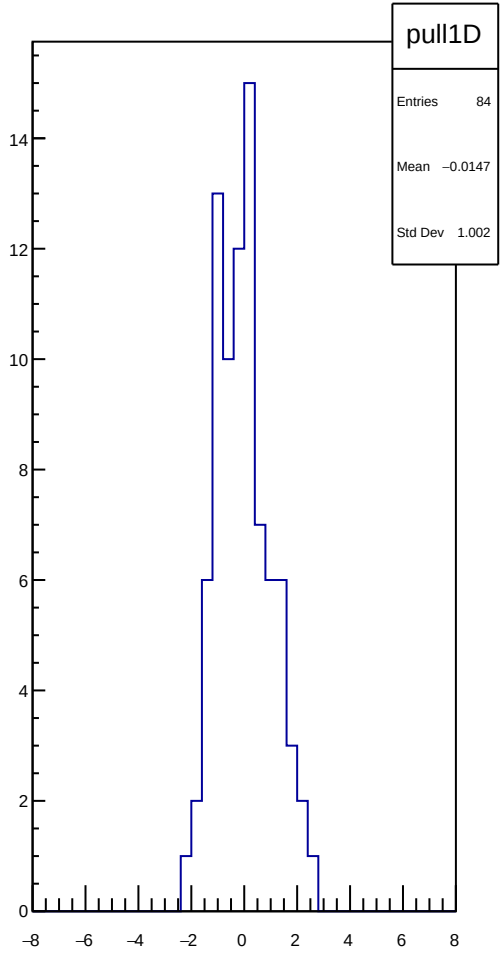

reg_asym_us_avg_rms vs run
χ^2 / ndf 2719 / 83
p0 785.5 ± 0.6077
1050
1000
950
900
850
800
750

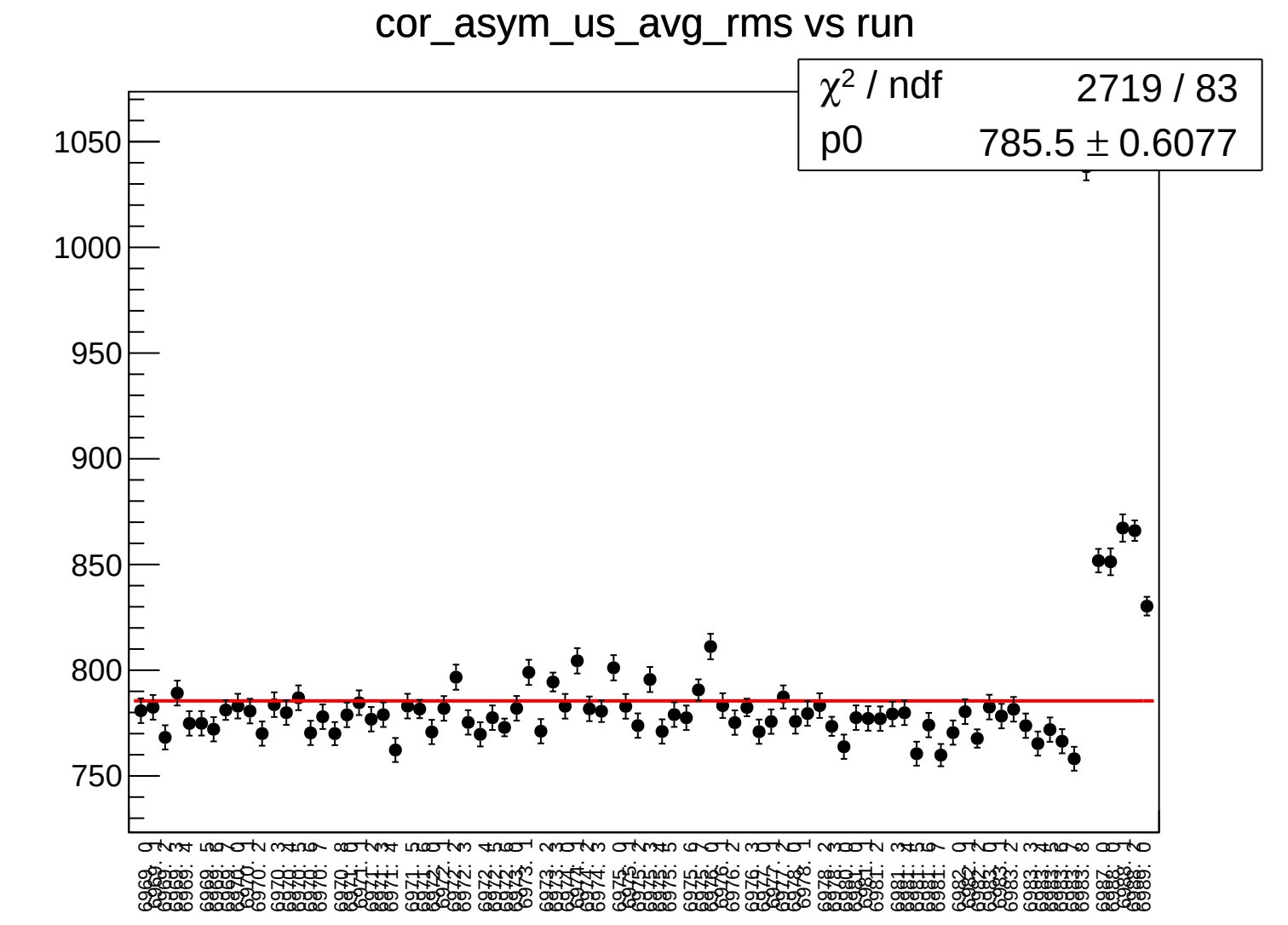

asym_us_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 107.6 / 83
p0 −2491 ± 2087
pull
Entries 84
Mean −31.61
Std Dev 0

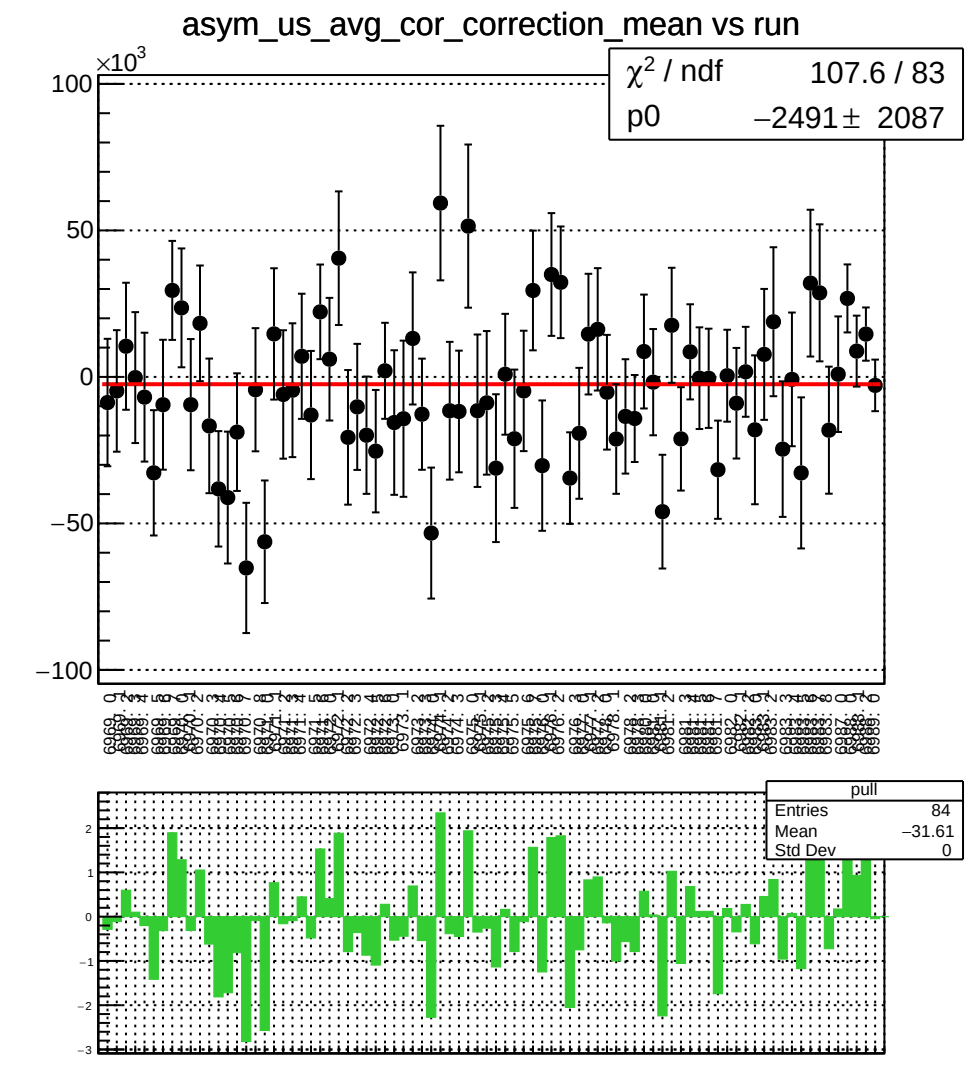

pull1D
Entries 84
Mean −0.05635
Std Dev 1.13

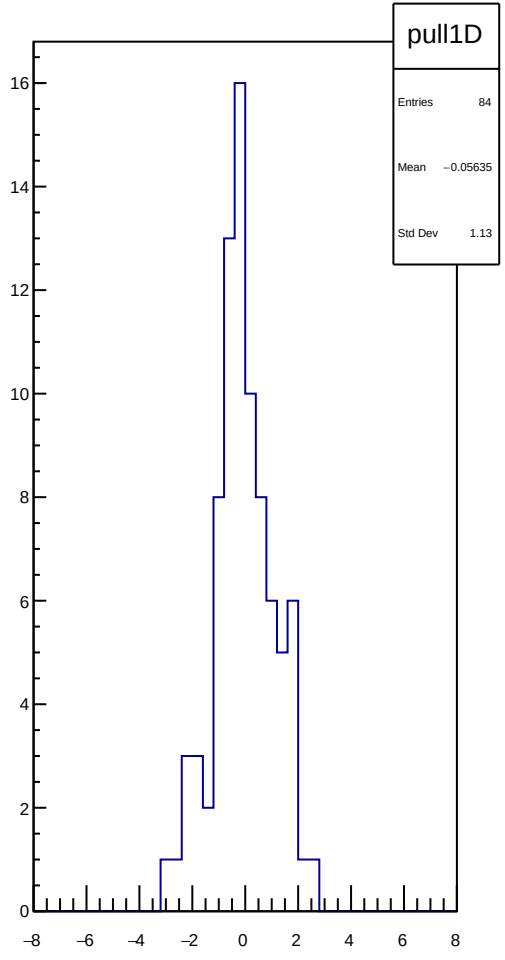

asym_us_avg_reg_correction_rms vs run
χ² / ndf 7.047e+04 / 83
p0 1868 ± 1.475
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000

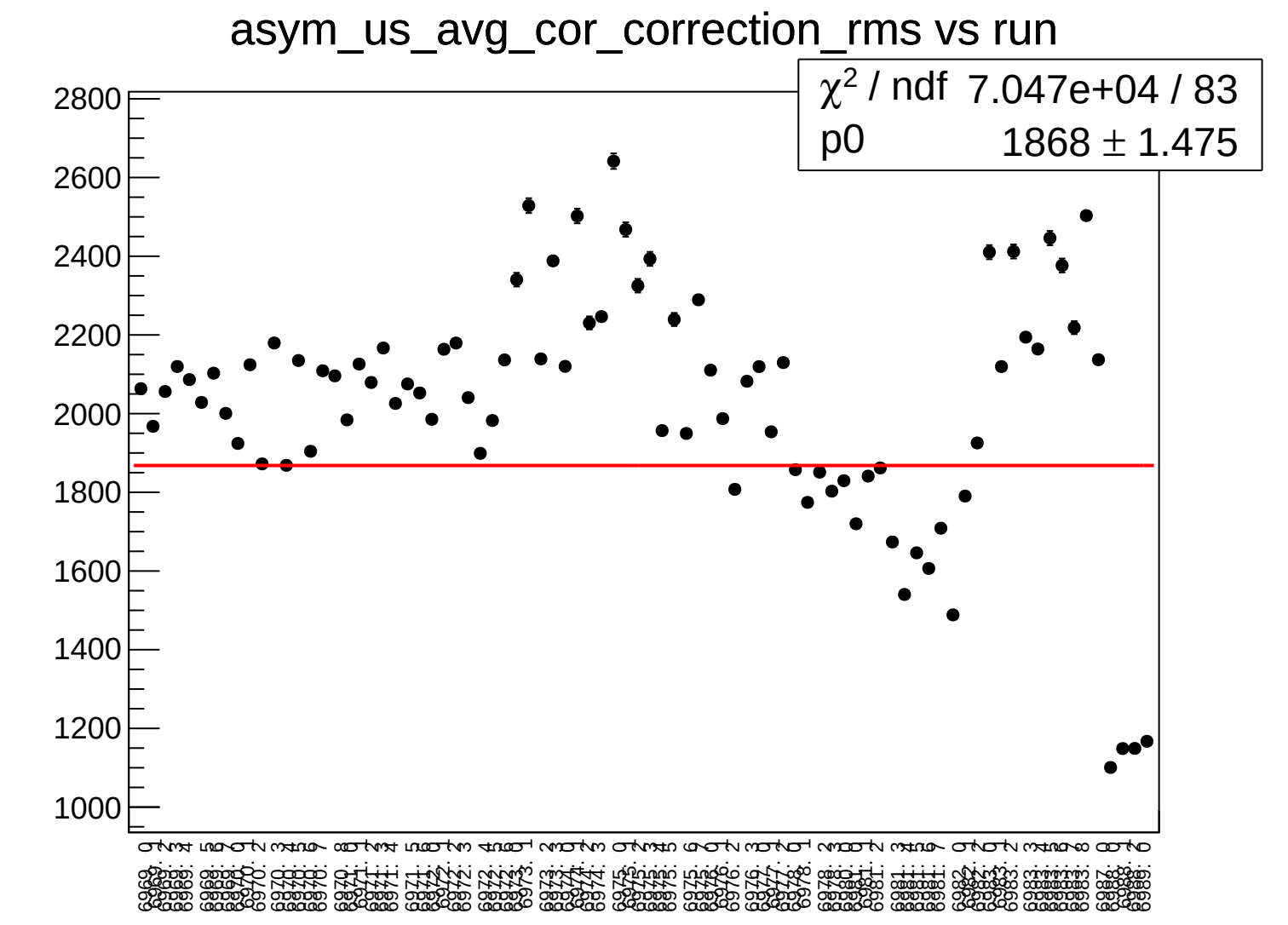

cor_asym_us_avg_mean vs run
χ² / ndf 84.37 / 83
p0 1692 ± 859.4
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 48.73
Std Dev 91.92
2
1
0
−1
−2

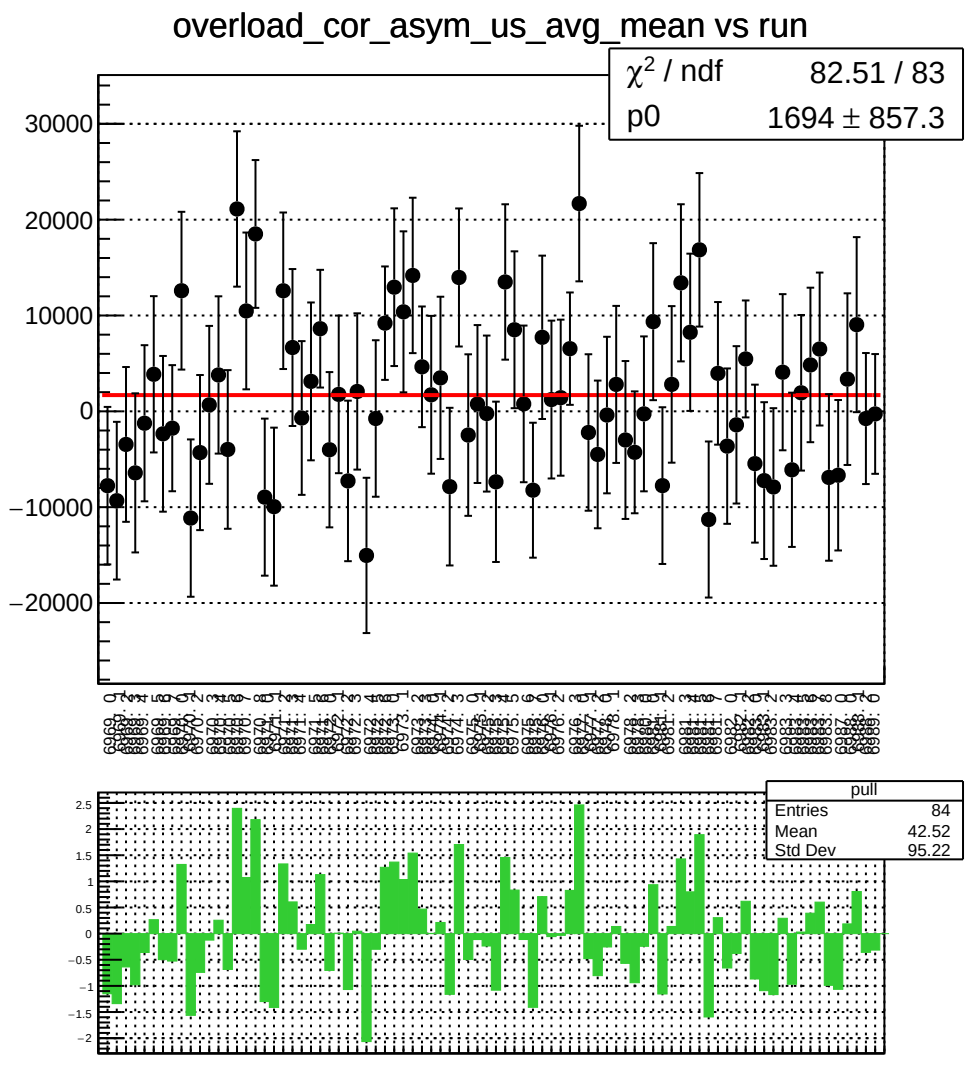

pull1D
Entries 84
Mean −0.0147
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

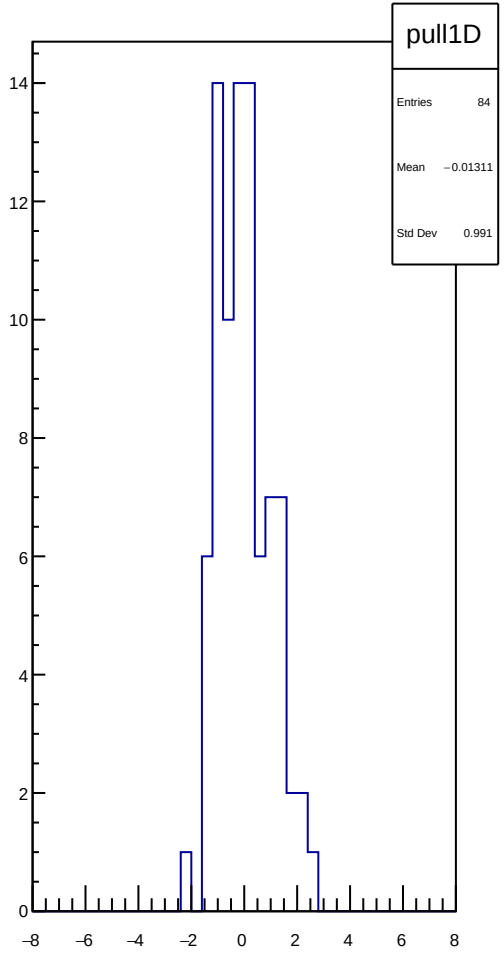

cor_asym_us_avg_rms vs run
χ^2 / ndf 2719 / 83
p0 785.5 ± 0.6077
1050
1000
950
900
850
800
750

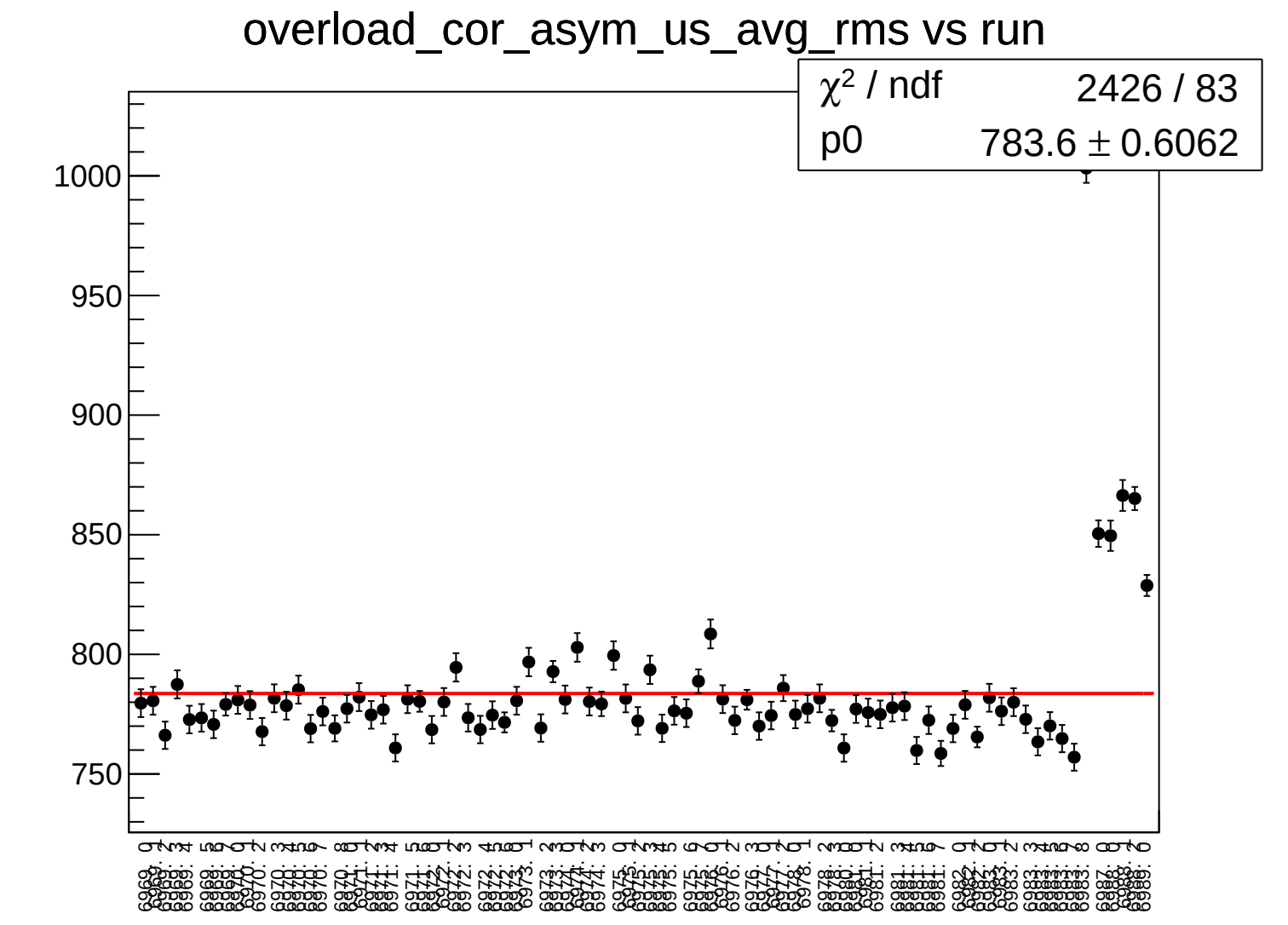

asym_us_avg_cor_correction_mean vs run
×10^3
χ² / ndf 107.6 / 83
p0 −2491 ± 2087
pull
Entries 84
Mean −31.61
Std Dev 0

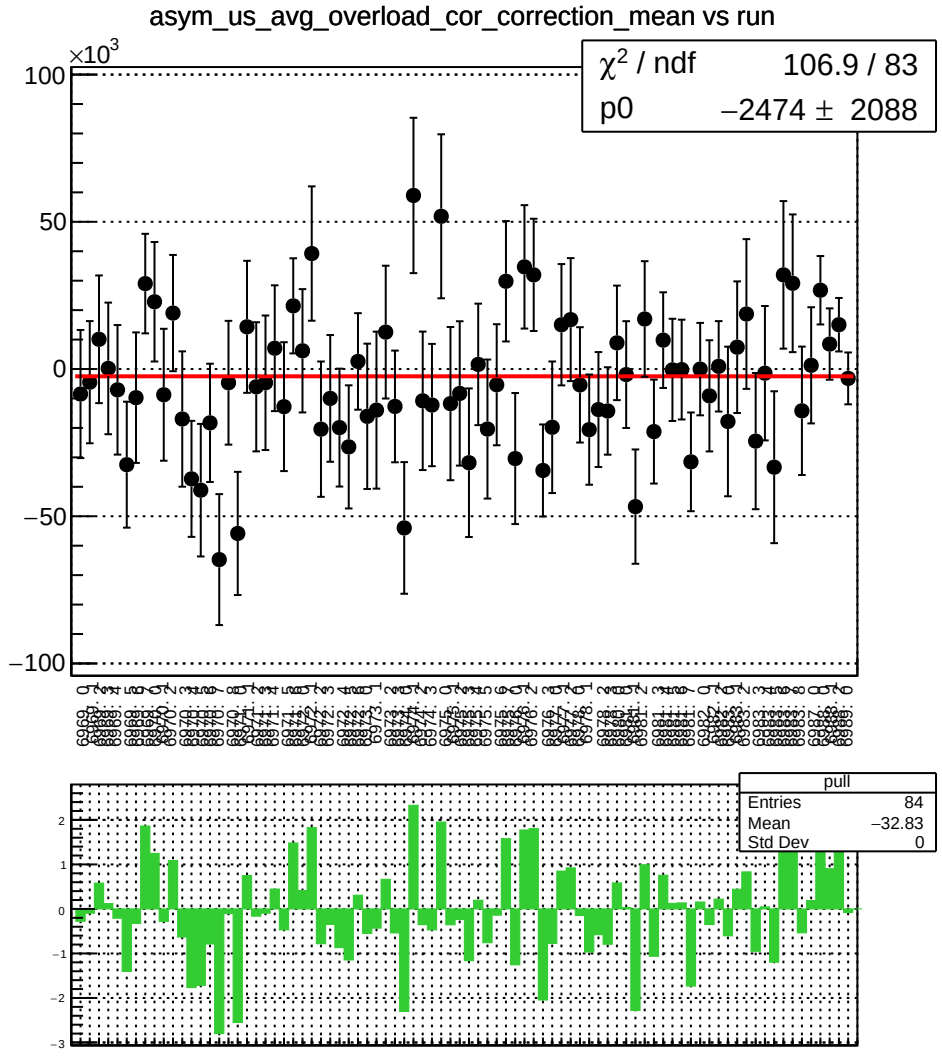

pull1D
Entries 84
Mean −0.05635
Std Dev 1.13

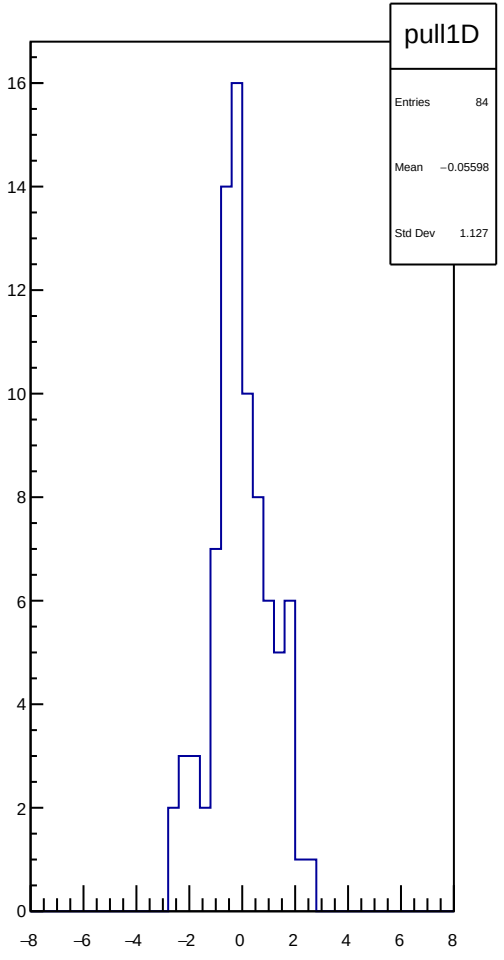

asym_us_avg_cor_correction_rms vs run
χ² / ndf 7.047e+04 / 83
p0 1868 ± 1.475
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000

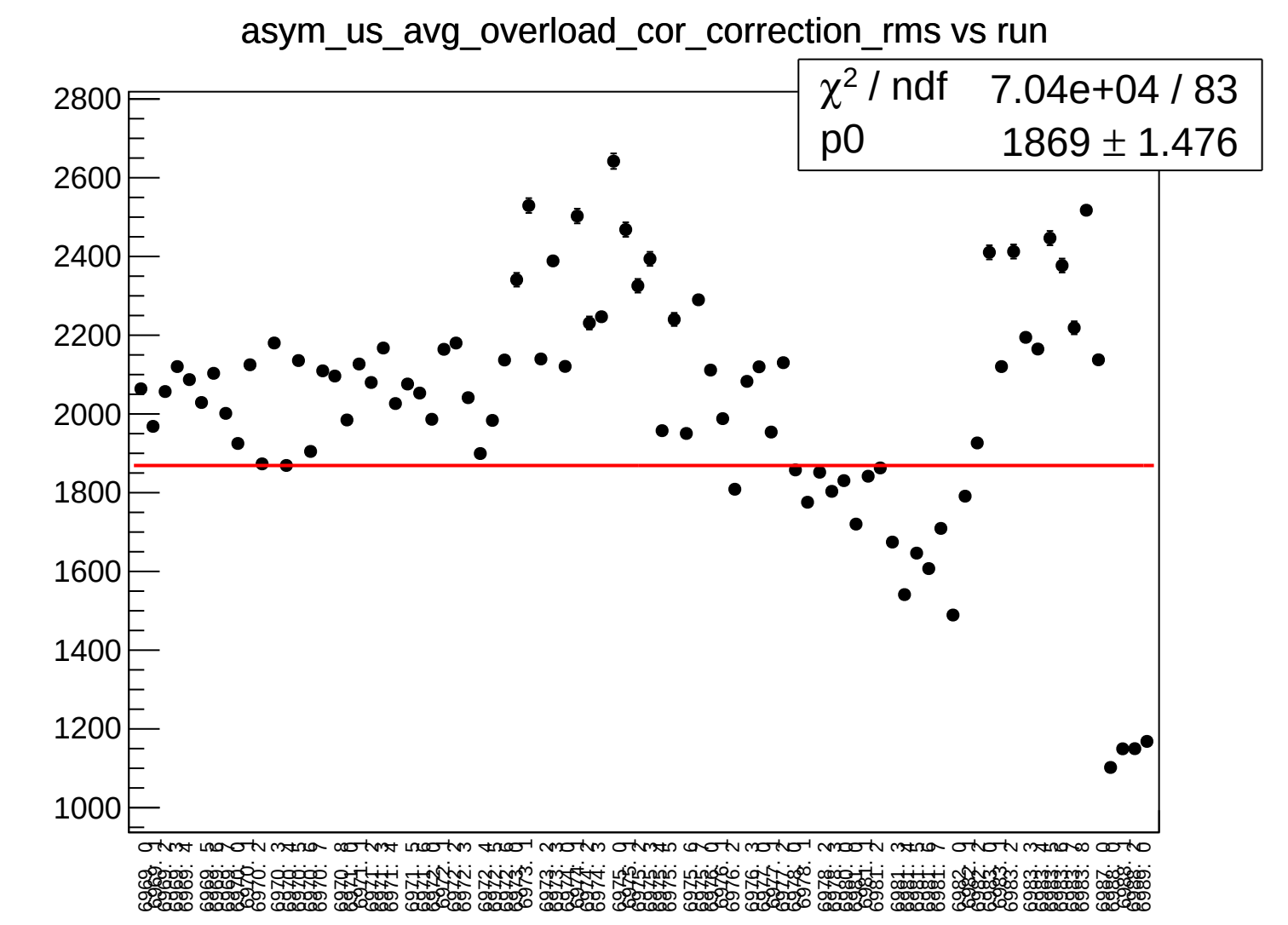

overload_cor_asym_us_avg_mean vs run
χ² / ndf 82.51 / 83
p0 1694 ± 857.3
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 42.52
Std Dev 95.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

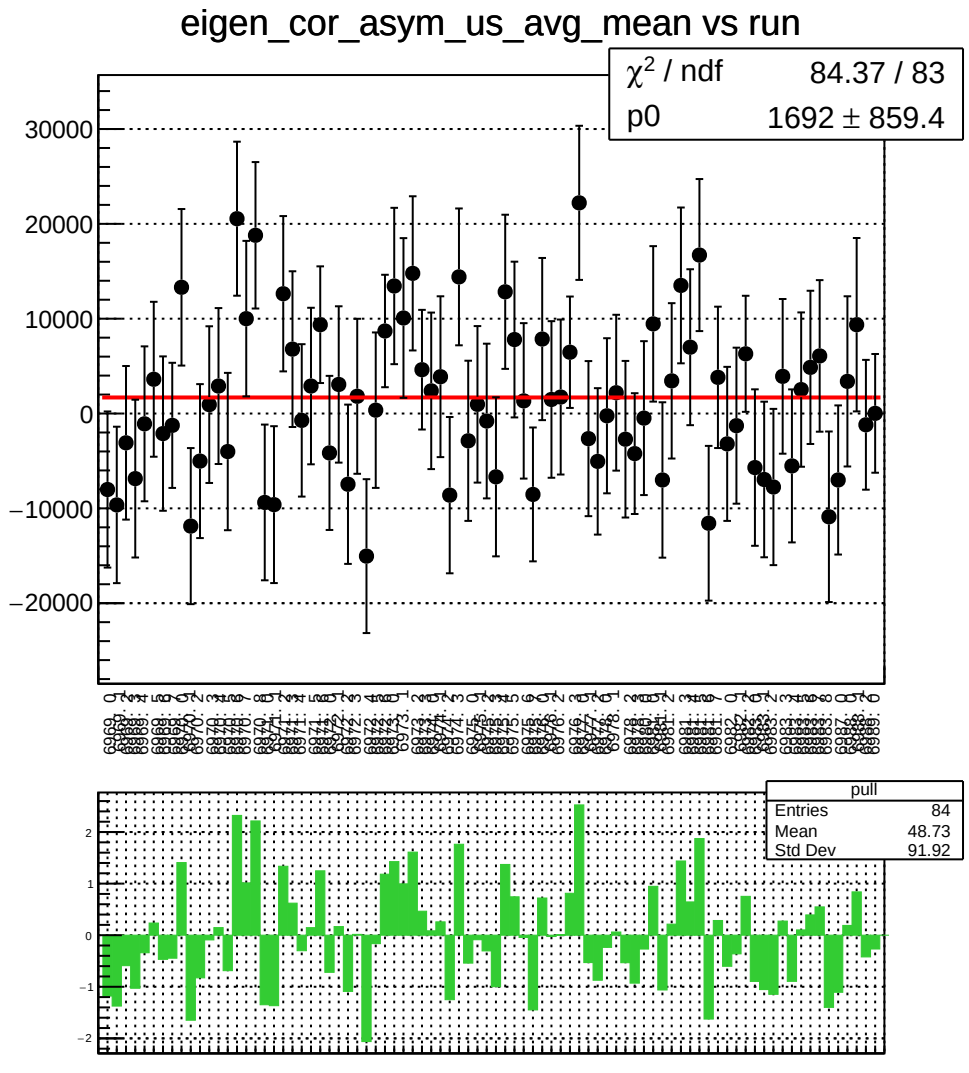

pull1D
Entries 84
Mean −0.01311
Std Dev 0.991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

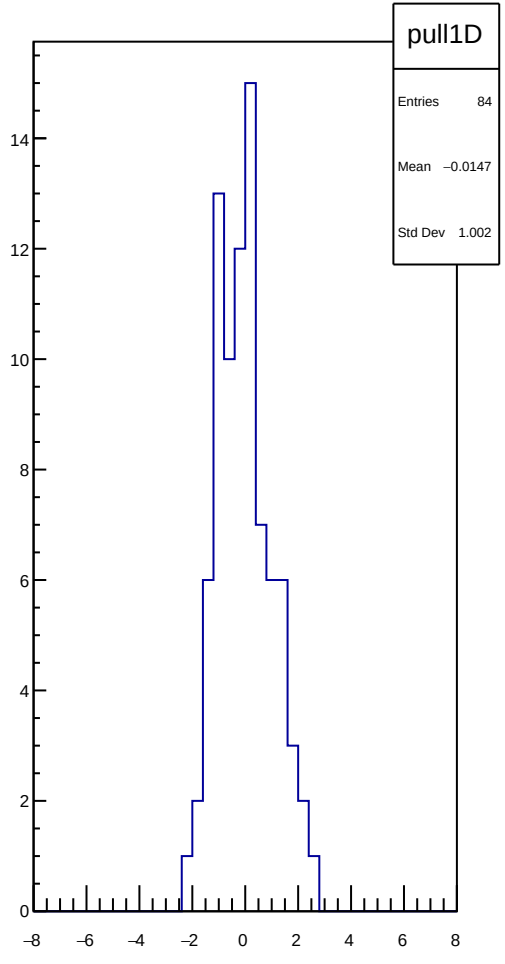

overload_cor_asym_us_avg_rms vs run
χ² / ndf 2426 / 83
p0 783.6 ± 0.6062
1000
950
900
850
800
750

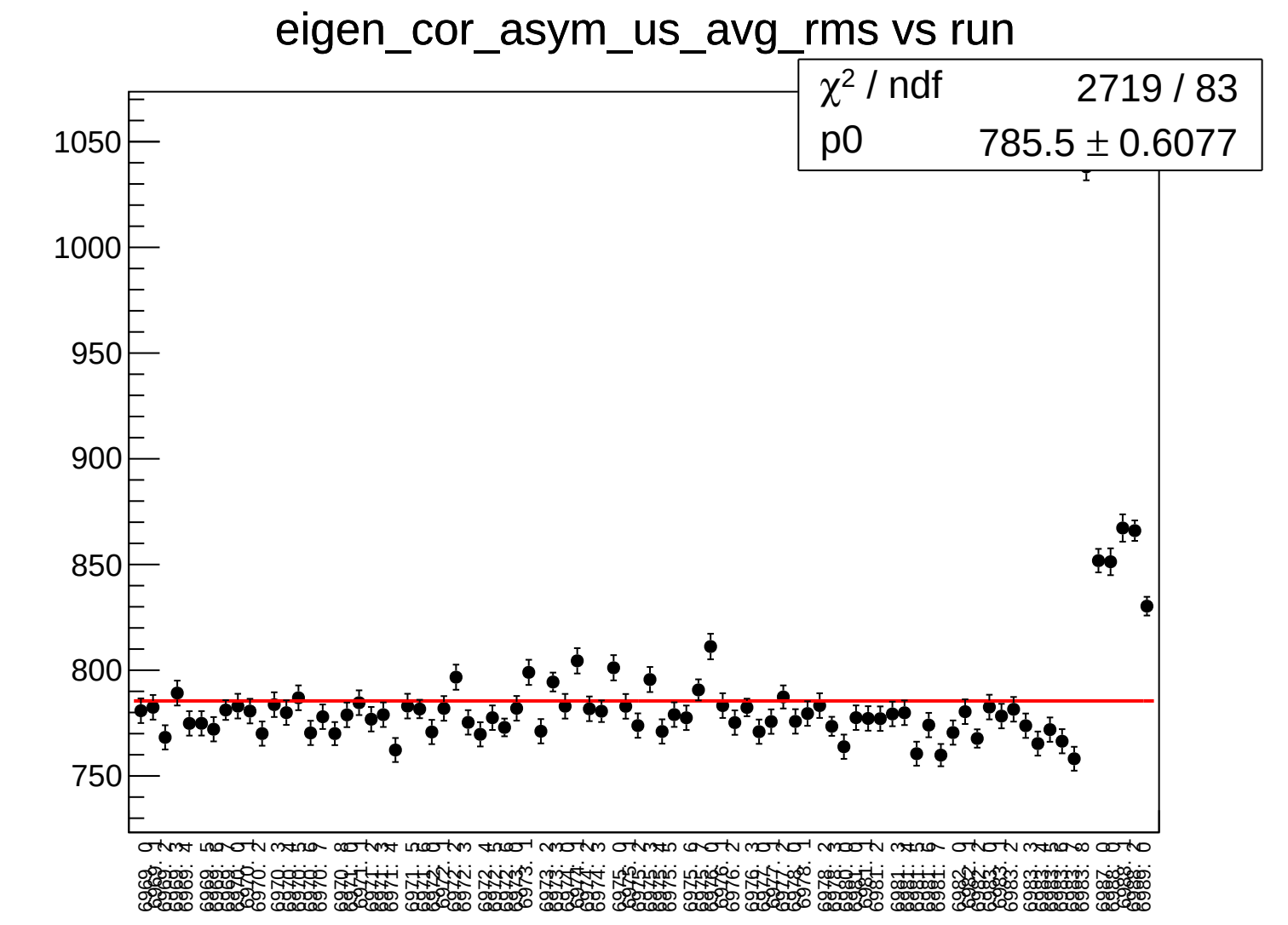

asym_us_avg_overload_cor_correction_mean vs run
×10^3
χ² / ndf 106.9 / 83
p0 −2474 ± 2088
pull
Entries 84
Mean −32.83
Std Dev 0

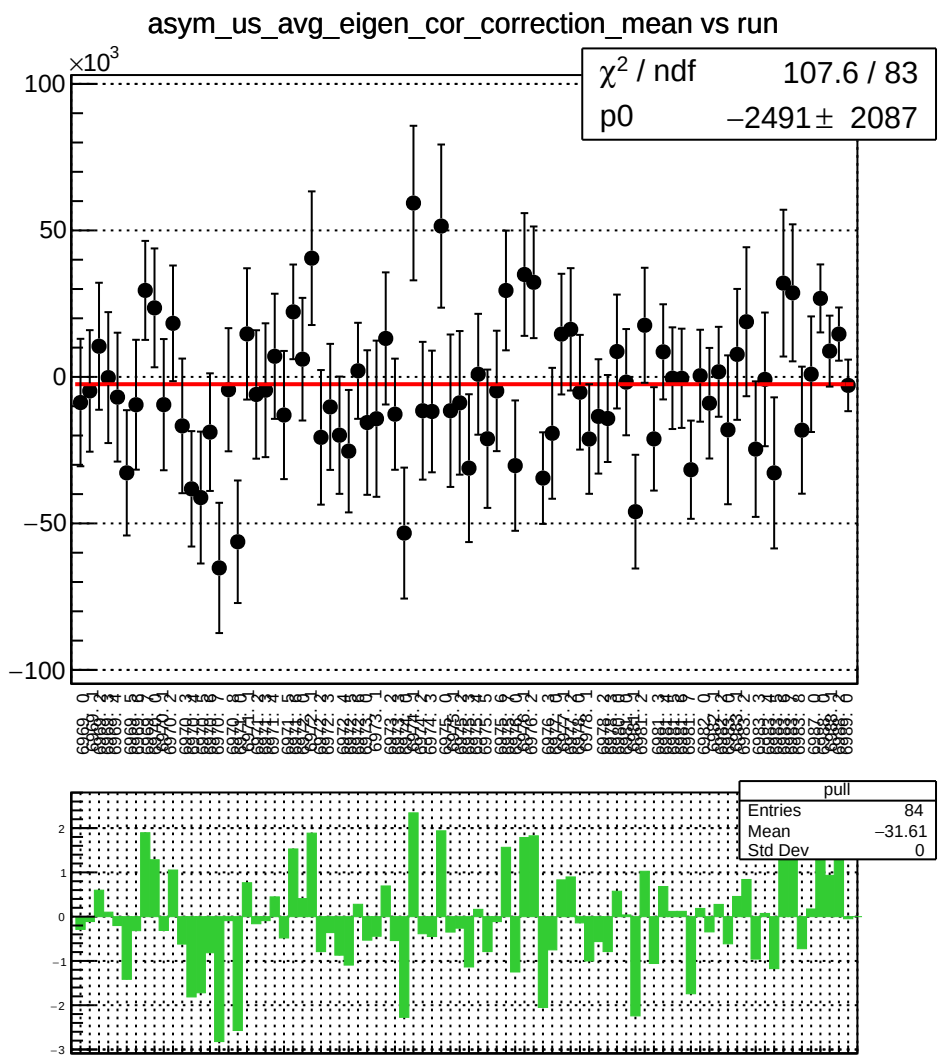

pull1D
Entries 84
Mean −0.05598
Std Dev 1.127

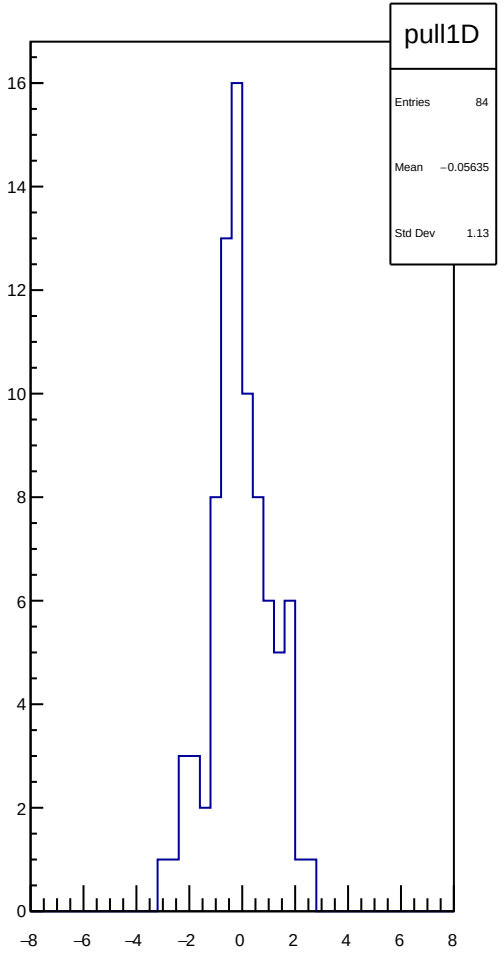

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 7.04e+04 / 83
p0 1869 ± 1.476
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000

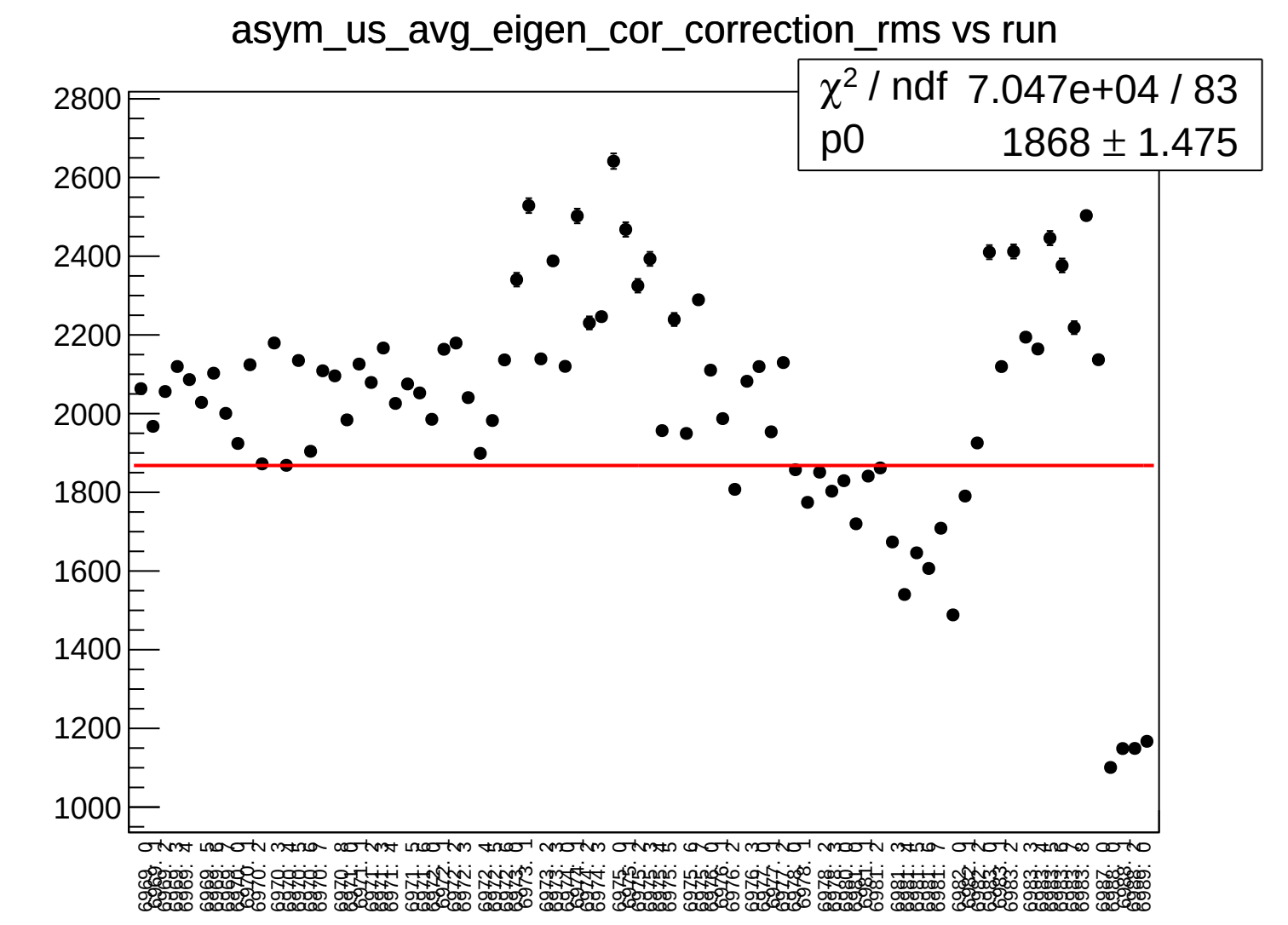

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 84.37 / 83
p0 1692 ± 859.4
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 48.73
Std Dev 91.92
2
1
0
−1
−2

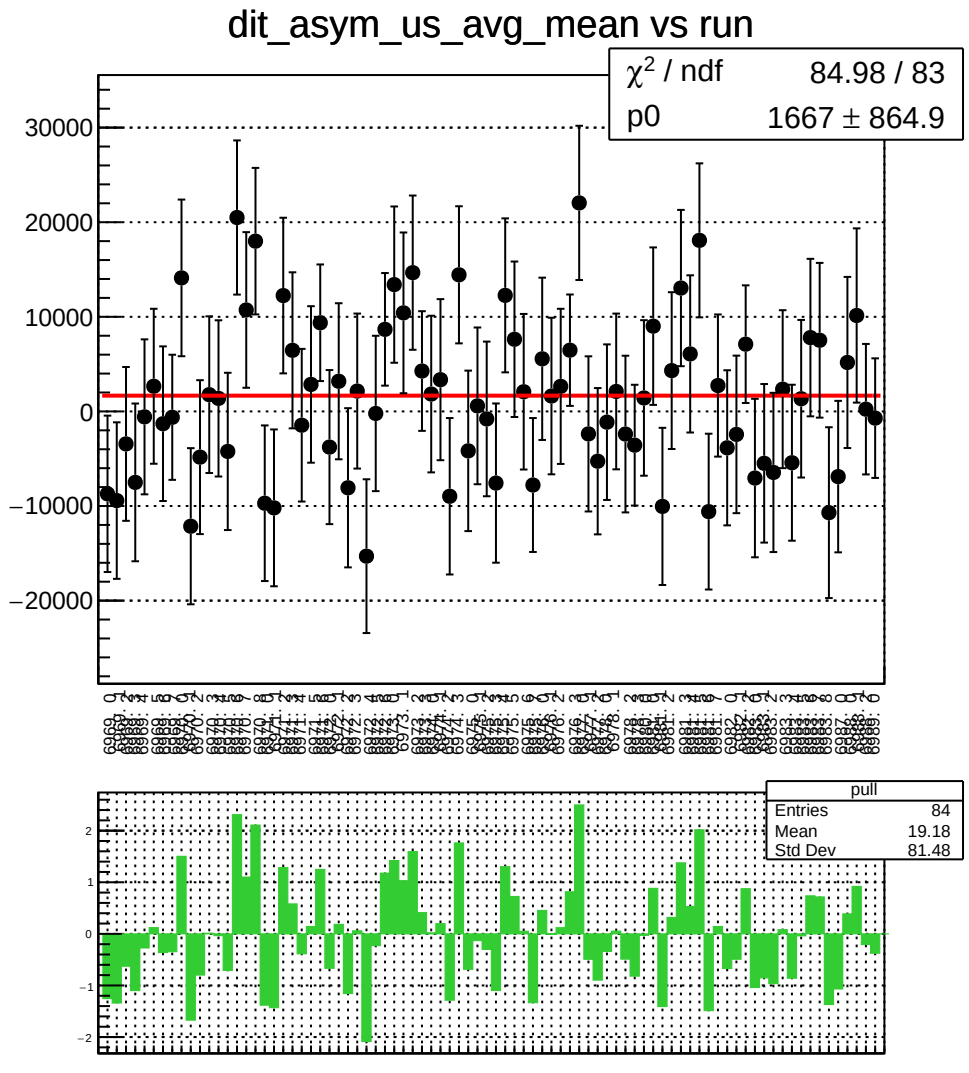

pull1D
Entries 84
Mean −0.0147
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

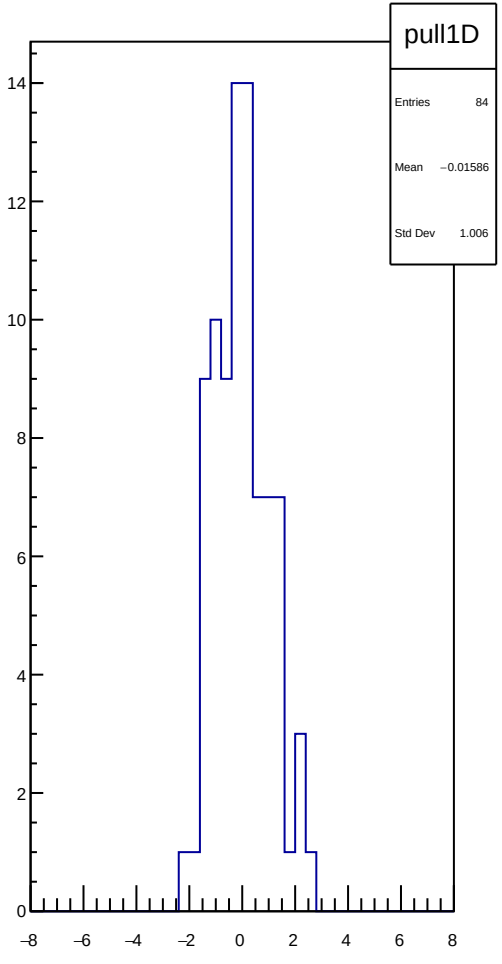

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 2719 / 83
p0 785.5 ± 0.6077
1050
1000
950
900
850
800
750

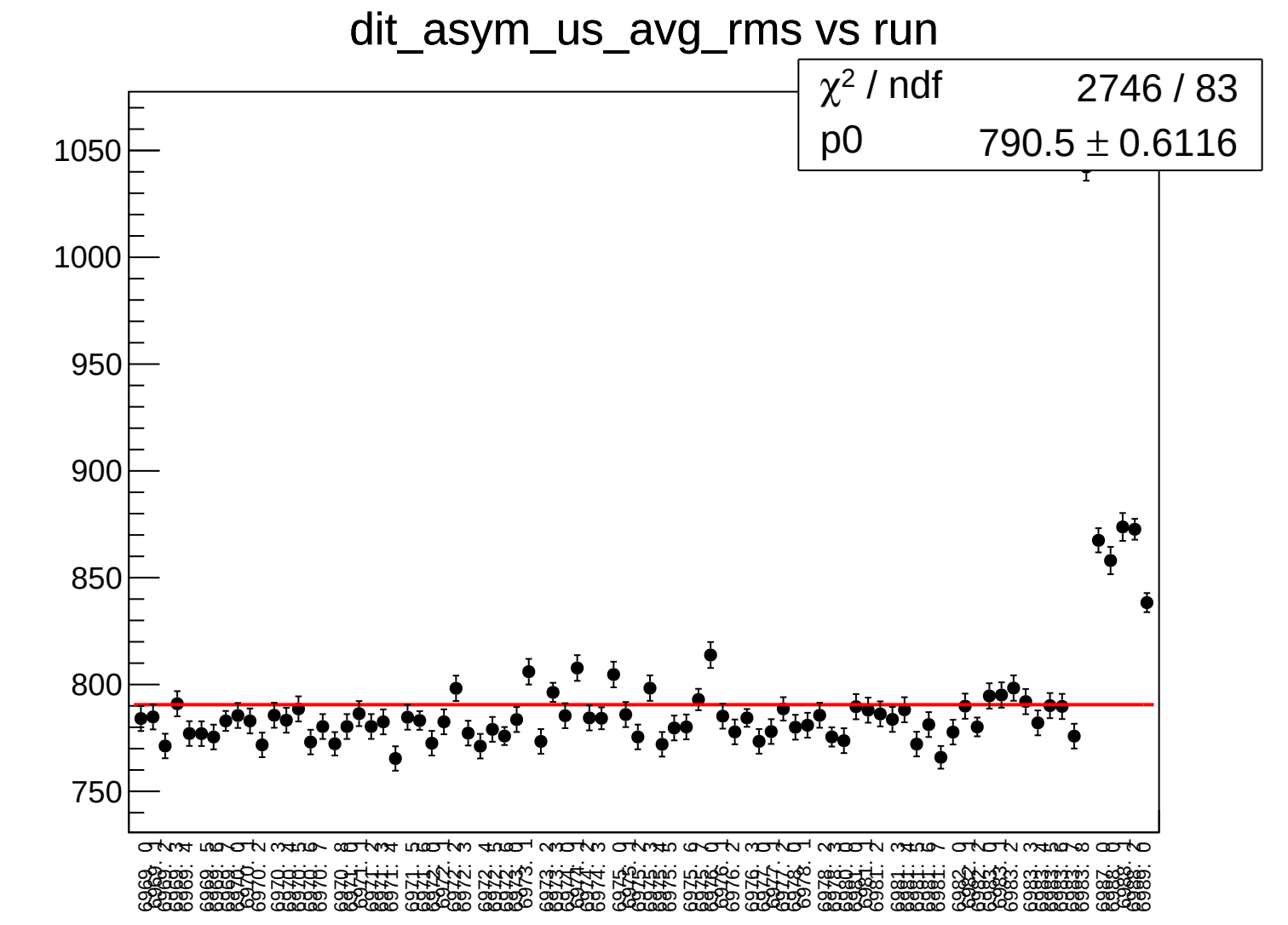

asym_us_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 107.6 / 83
p0 −2491 ± 2087
pull
Entries 84
Mean −31.61
Std Dev 0

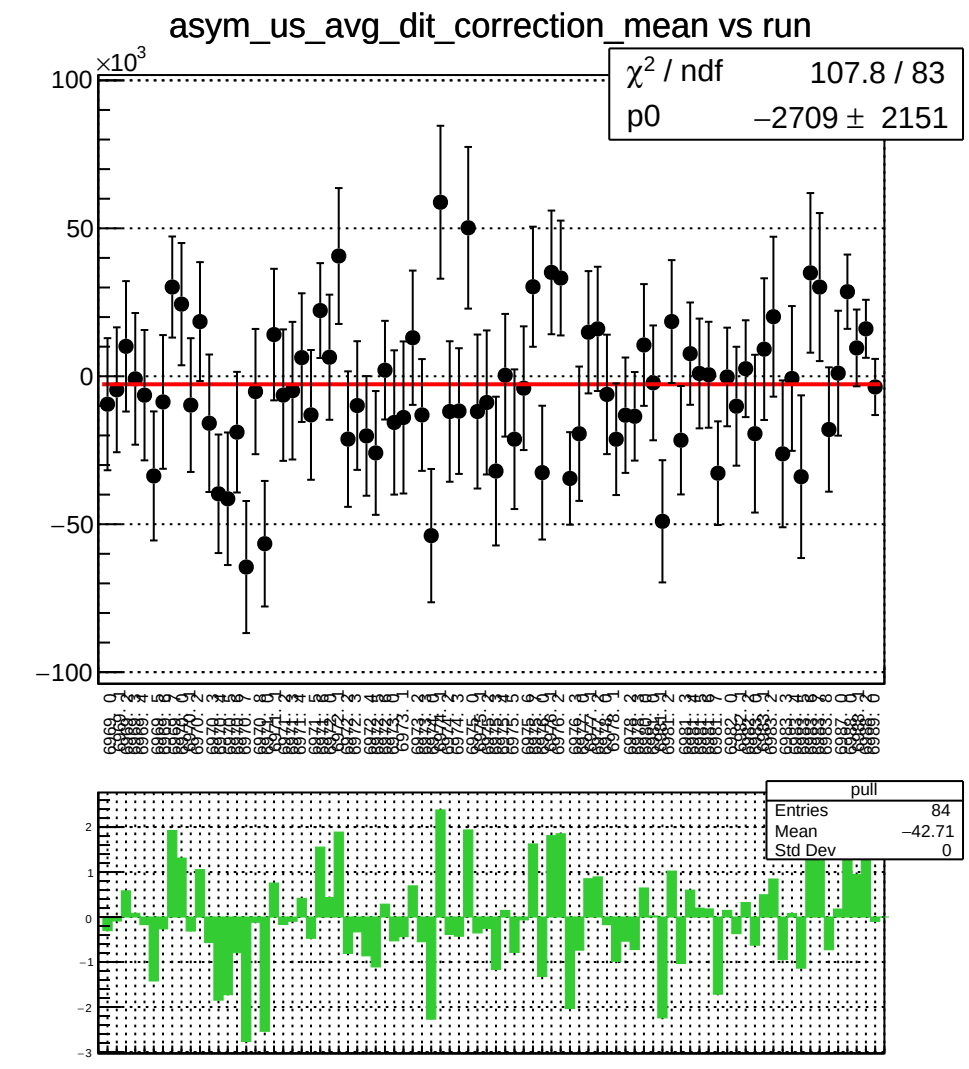

pull1D
Entries 84
Mean −0.05635
Std Dev 1.13

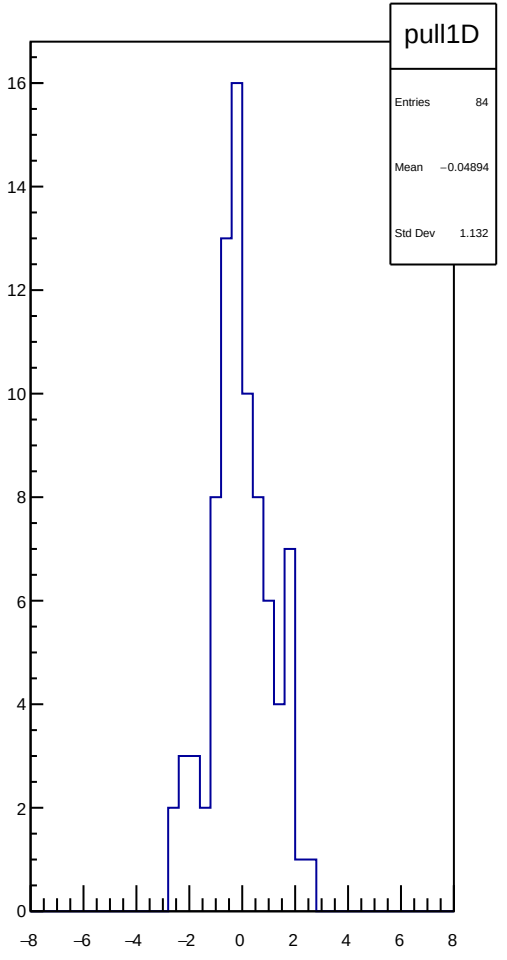

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.047e+04 / 83
p0 1868 ± 1.475
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000

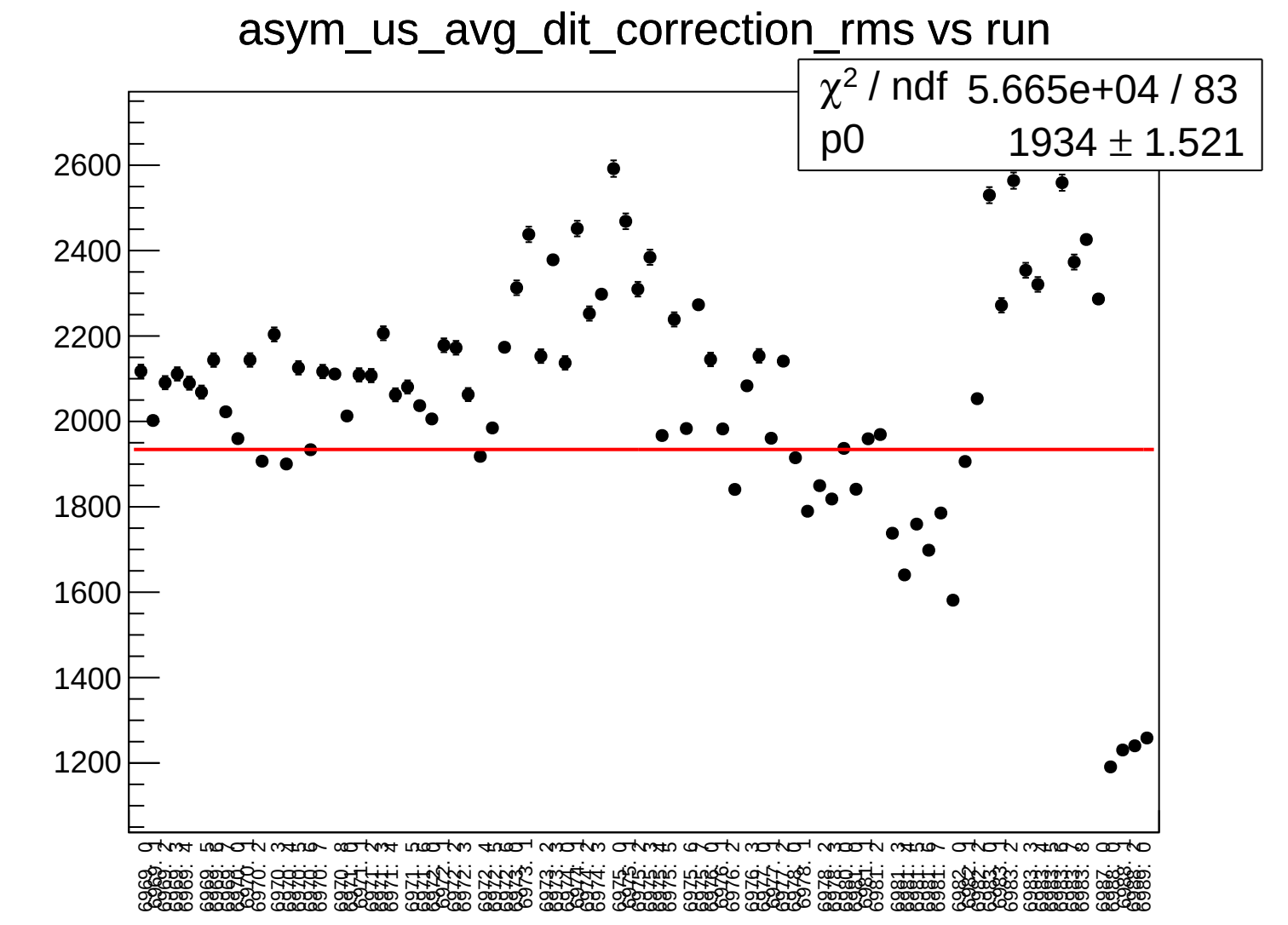

dit_asym_us_avg_mean vs run
χ² / ndf 84.98 / 83
p0 1667 ± 864.9
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 19.18
Std Dev 81.48
2
1
0
−1
−2

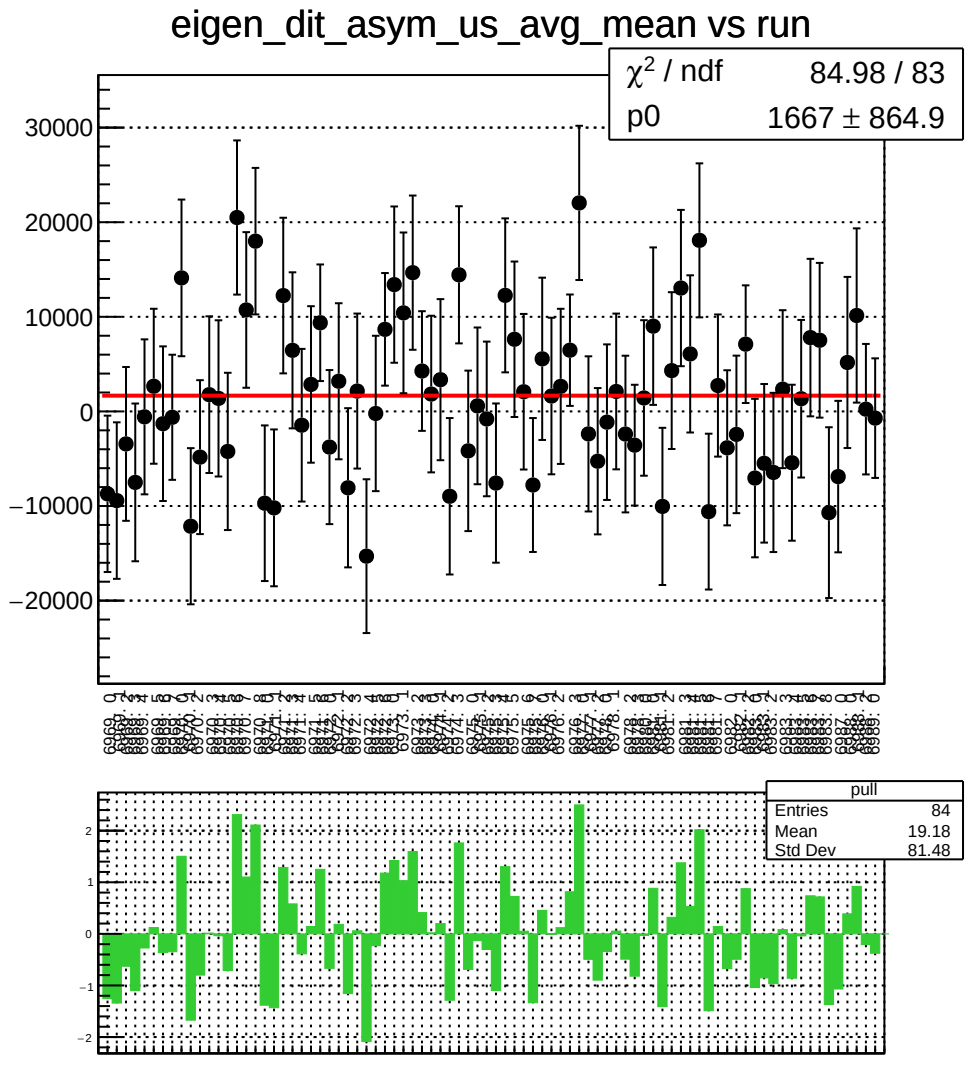

pull1D
Entries 84
Mean −0.01586
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

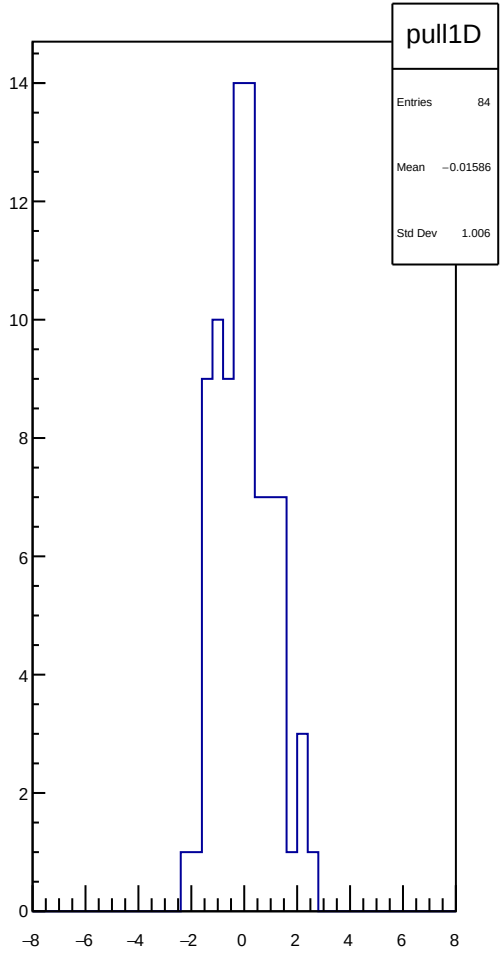

dit_asym_us_avg_rms vs run
χ² / ndf 2746 / 83
p0 790.5 ± 0.6116
1050
1000
950
900
850
800
750

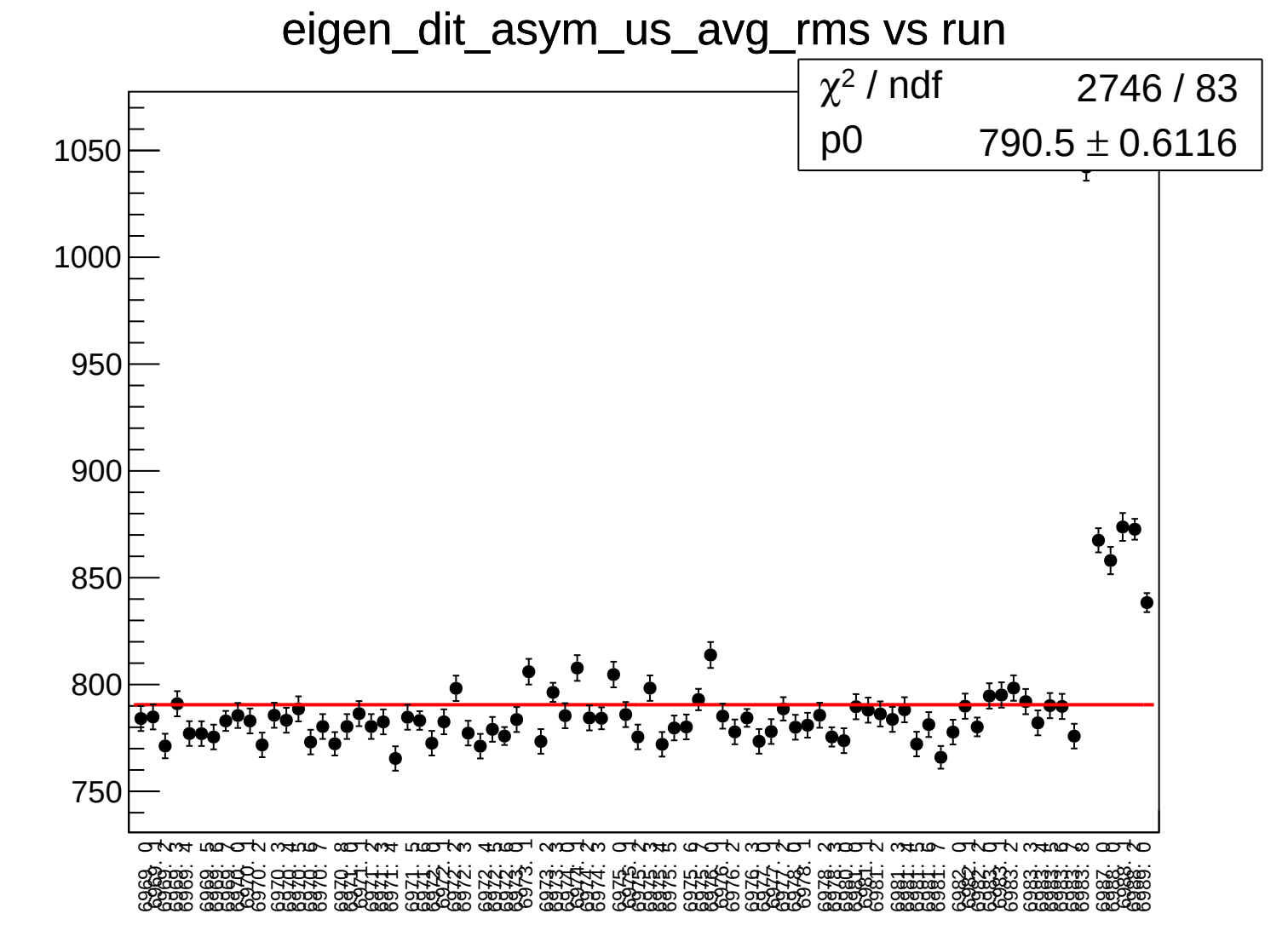

asym_us_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.8 / 83
p0 −2709 ± 2151
100
50
0
−50
−100
pull
Entries 84
Mean −42.71
Std Dev 0
2
1
0
−1
−2
−3

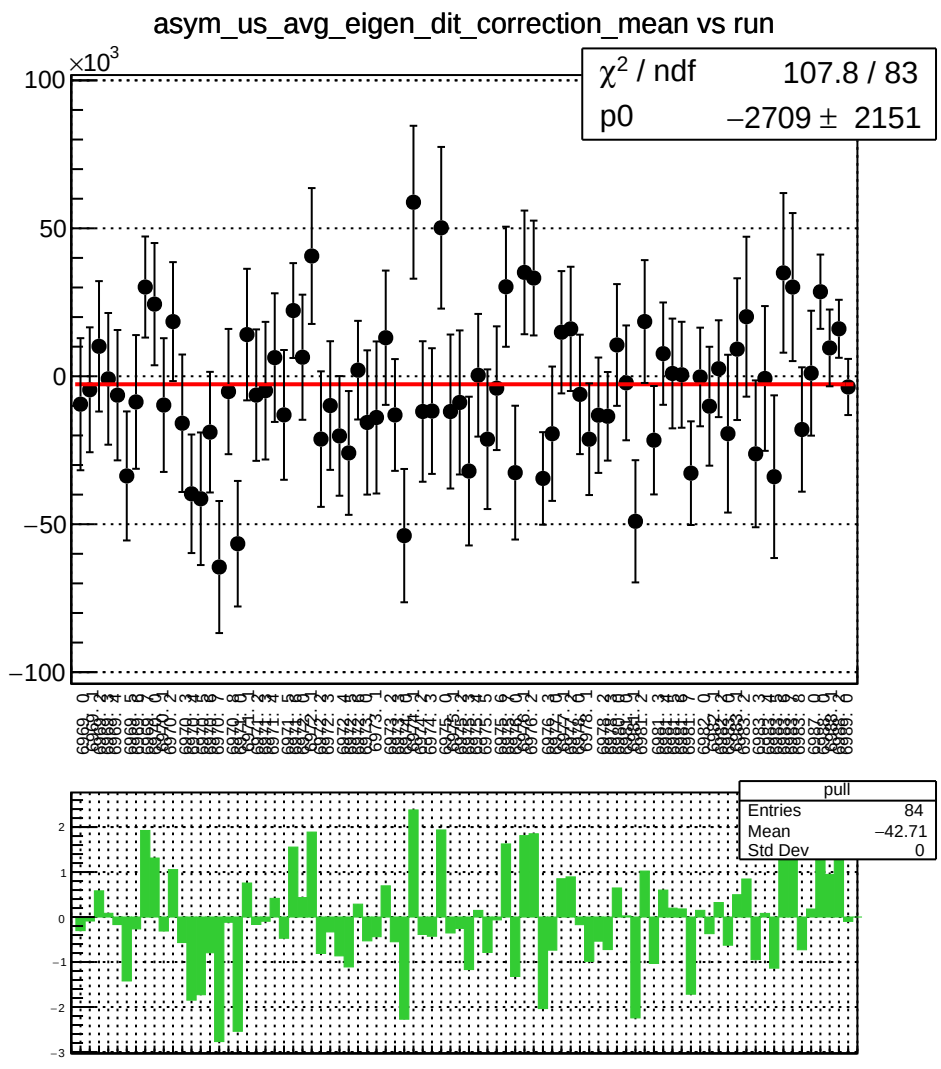

pull1D
Entries 84
Mean −0.04894
Std Dev 1.132
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

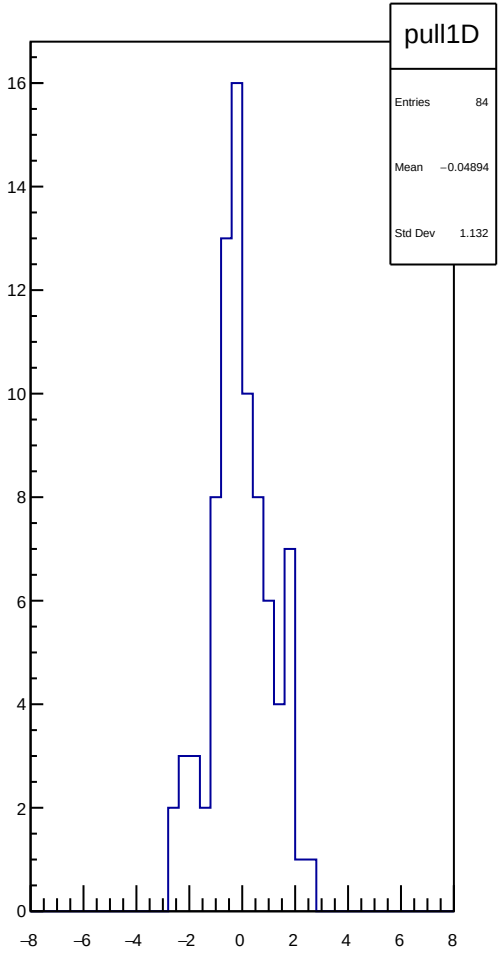

asym_us_avg_dit_correction_rms vs run
χ² / ndf 5.665e+04 / 83
p0 1934 ± 1.521
2600
2400
2200
2000
1800
1600
1400
1200

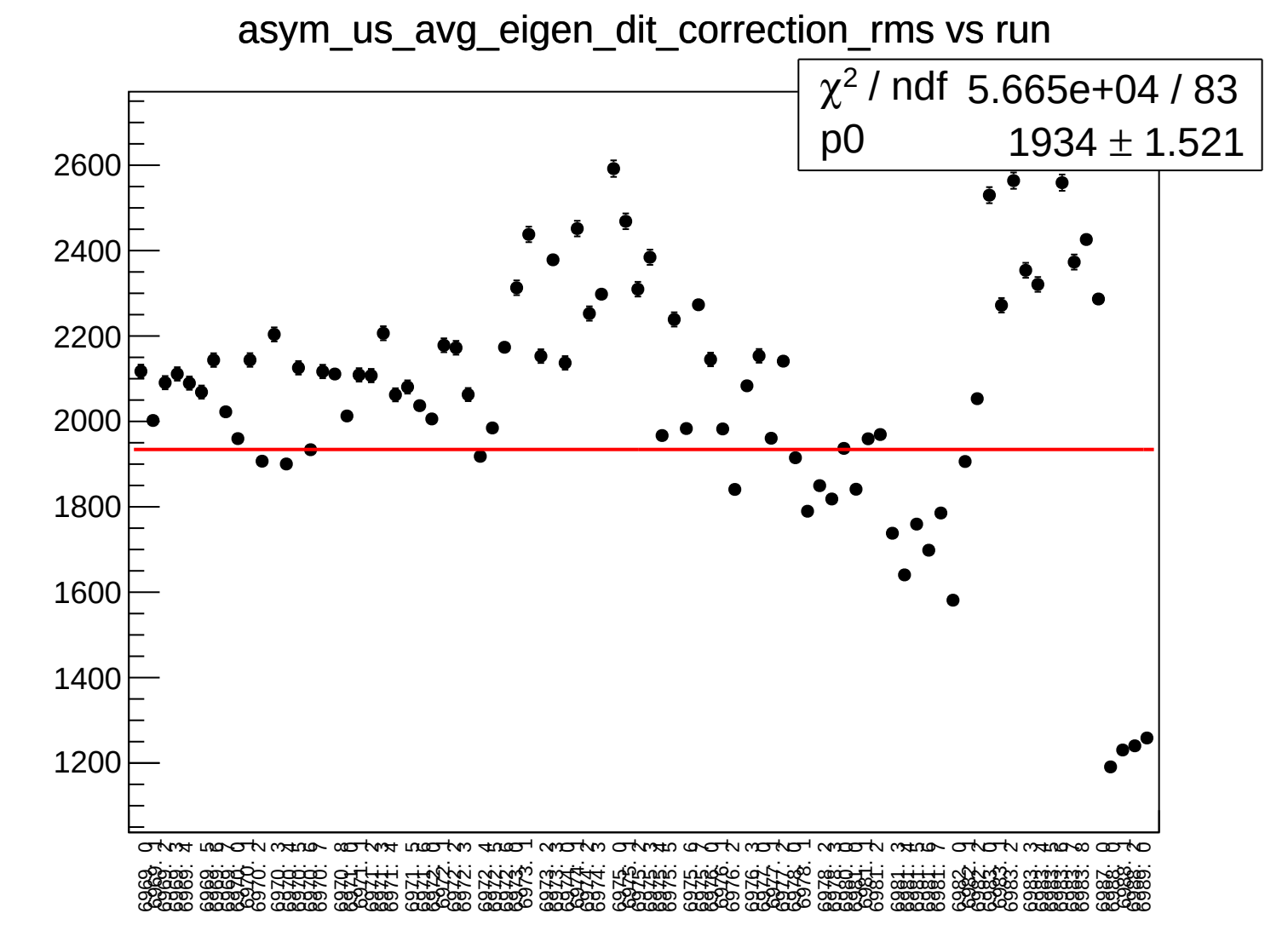

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 84.98 / 83
p0 1667 ± 864.9
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 19.18
Std Dev 81.48
2
1
0
−1
−2

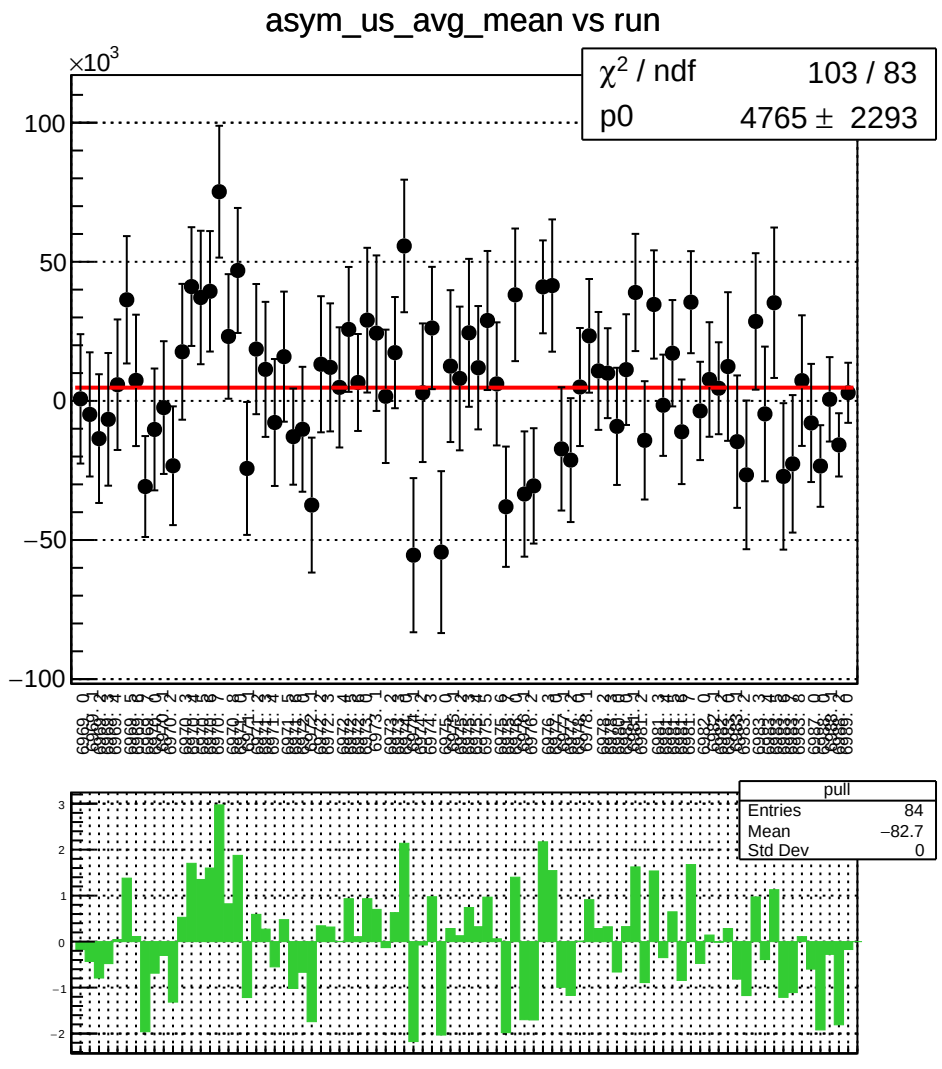

pull1D
Entries 84
Mean −0.01586
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

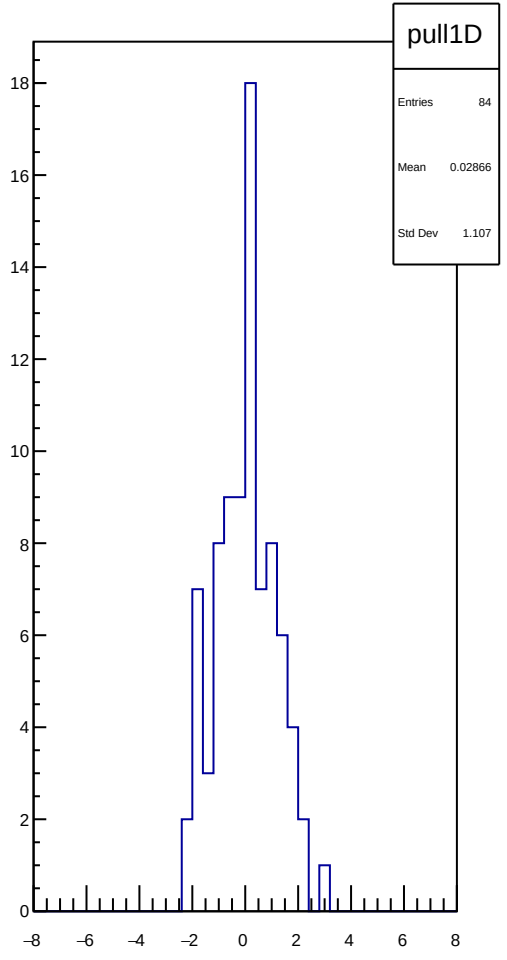

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 2746 / 83
p0 790.5 ± 0.6116
1050
1000
950
900
850
800
750

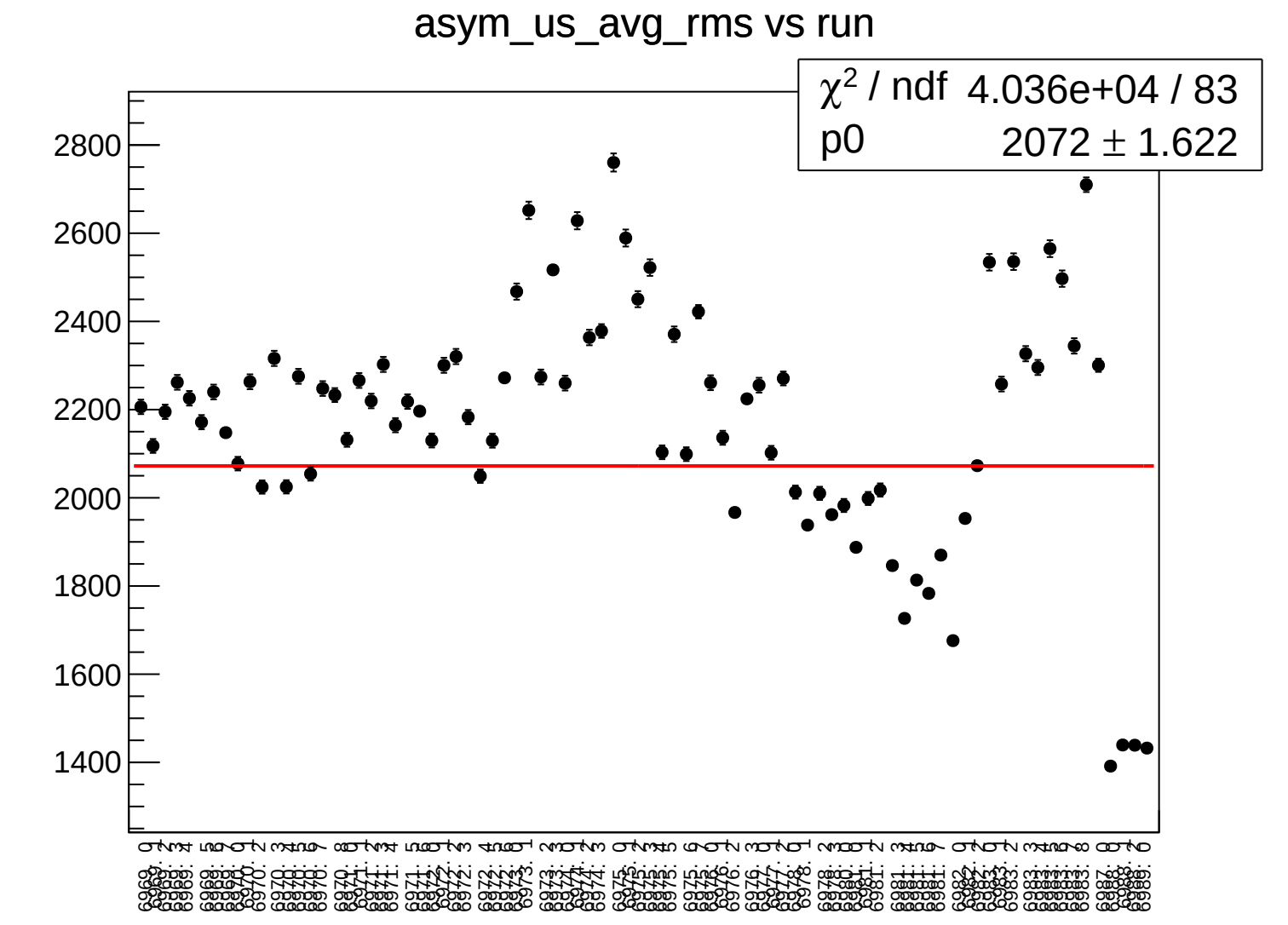

asym_us_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.8 / 83
p0 −2709 ± 2151
pull
Entries 84
Mean −42.71
Std Dev 0

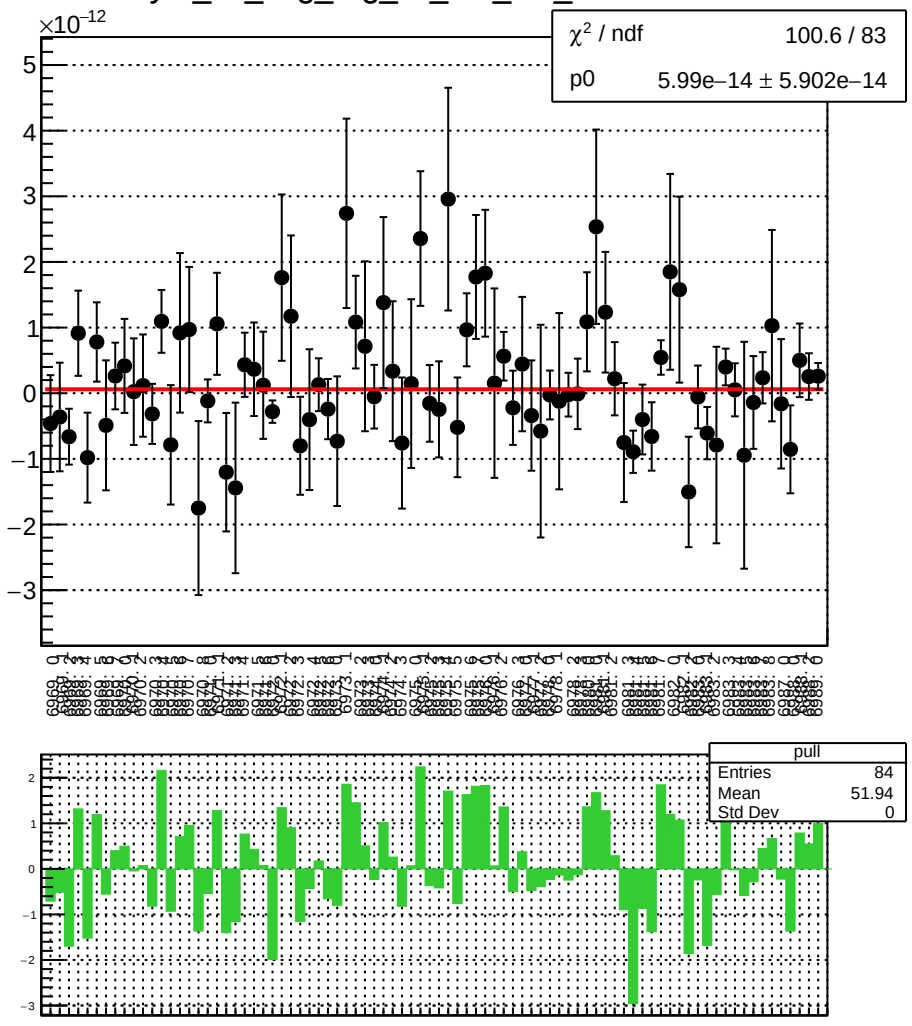

pull1D
Entries 84
Mean −0.04894
Std Dev 1.132

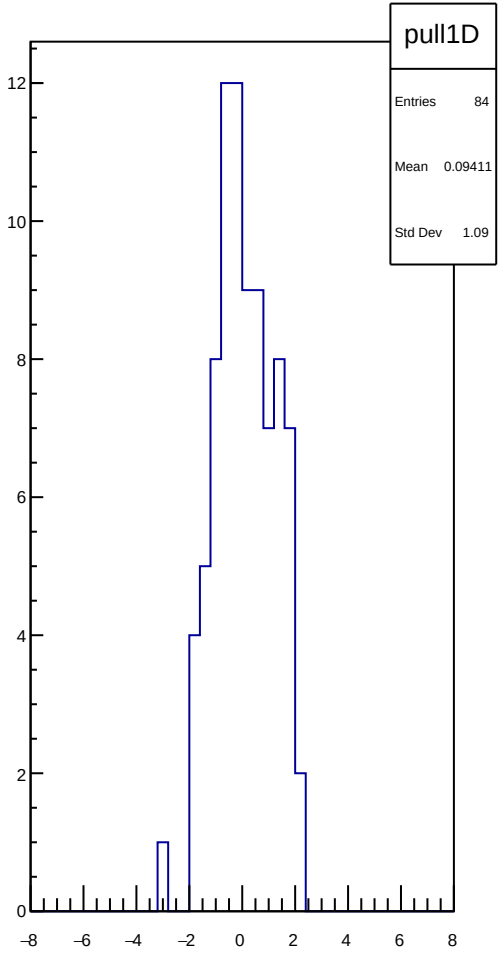

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.665e+04 / 83
p0 1934 ± 1.521
2600
2400
2200
2000
1800
1600
1400
1200

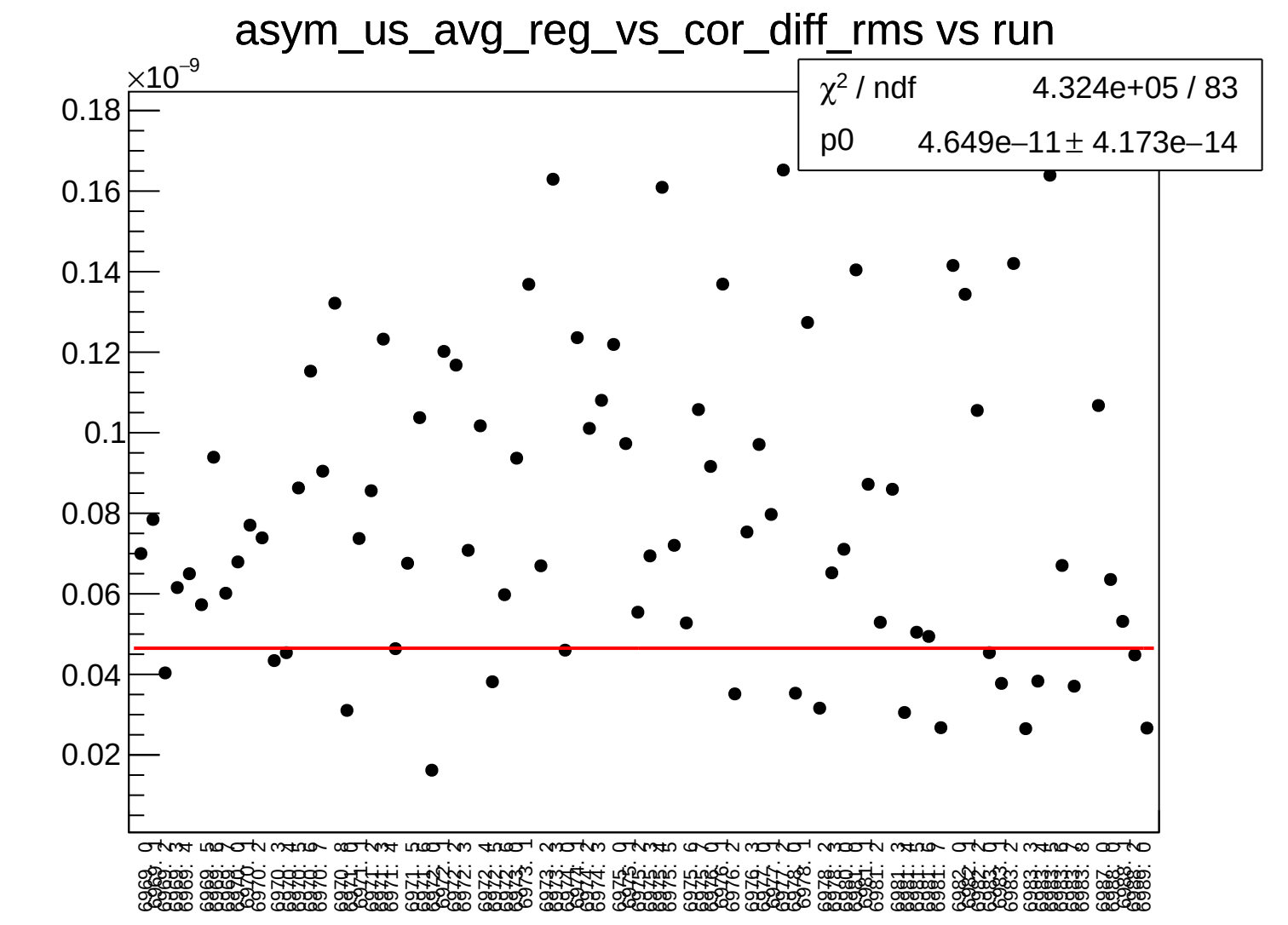

asym_us_avg_mean vs run
×10^3
χ² / ndf 103 / 83
p0 4765 ± 2293
100
50
0
−50
−100
pull
Entries 84
Mean −82.7
Std Dev 0
3
2
1
0
−1
−2

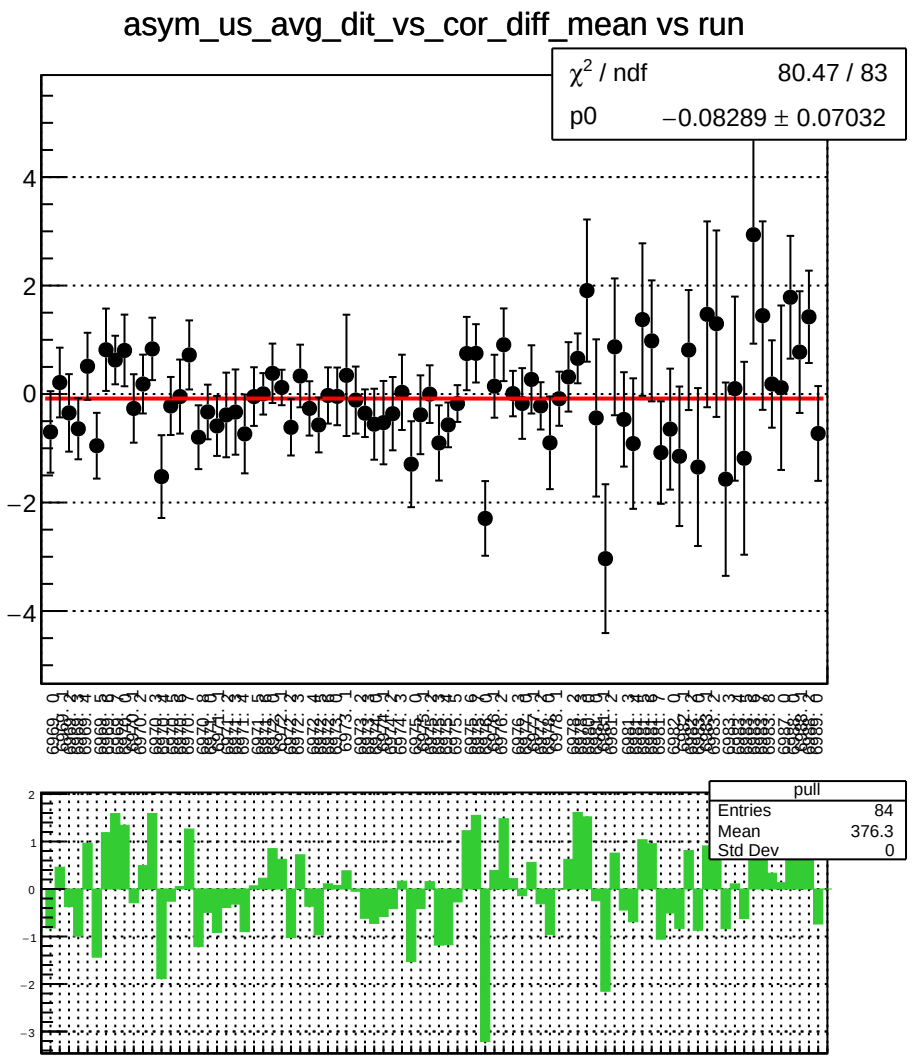

pull1D
Entries 84
Mean 0.02866
Std Dev 1.107
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

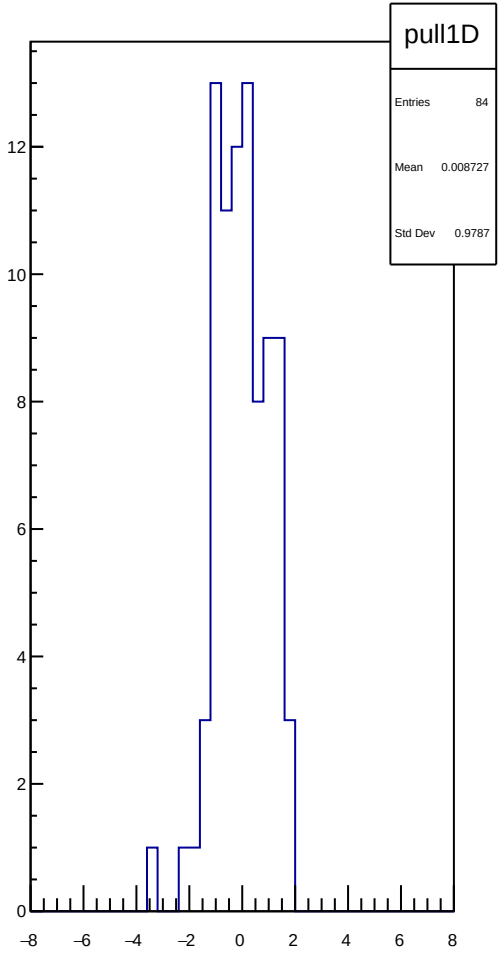

asym_us_avg_rms vs run
χ^2 / ndf 4.036e+04 / 83
p0 2072 ± 1.622
2800
2600
2400
2200
2000
1800
1600
1400

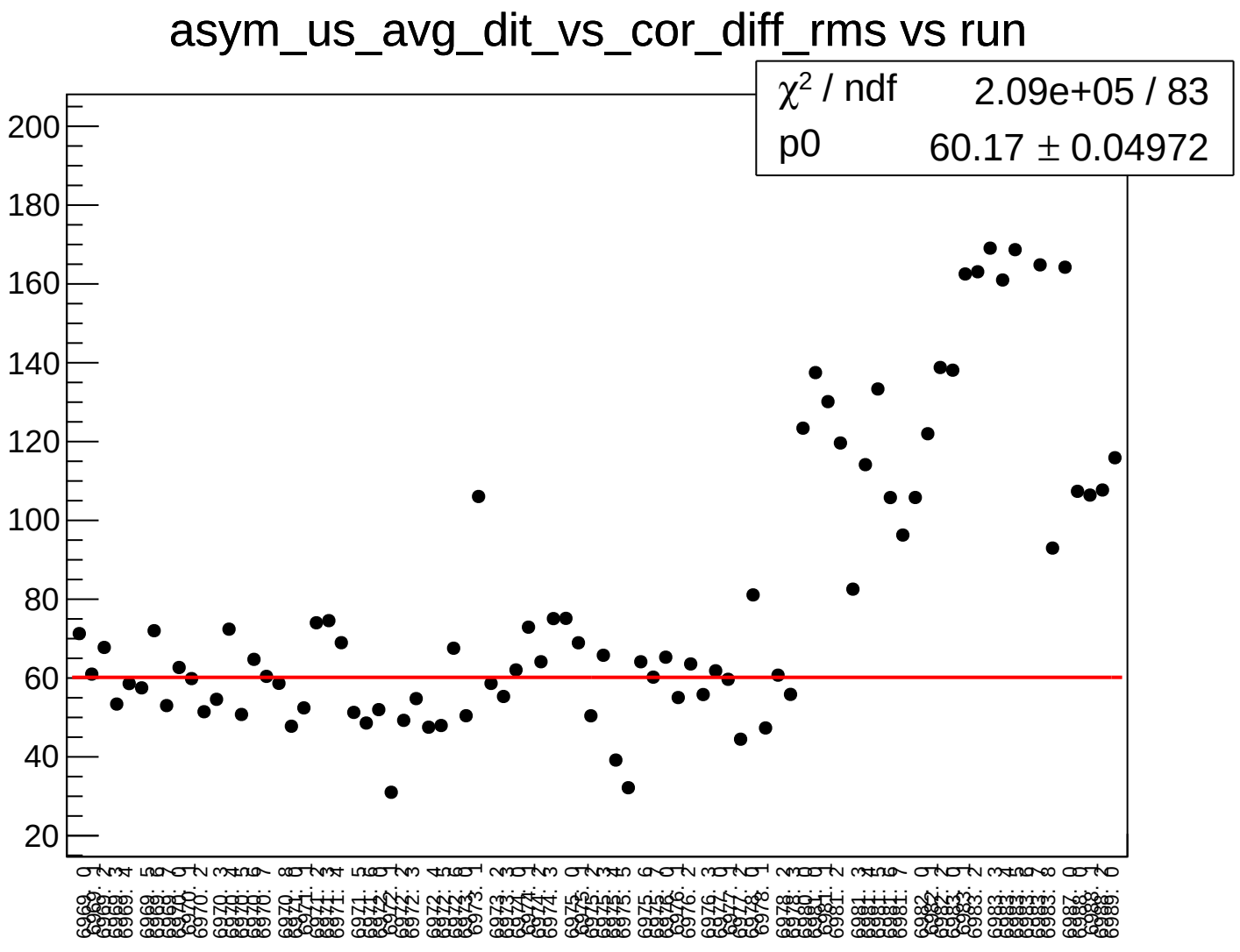

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.6 / 83
p0 5.99e−14 ± 5.902e−14
pull
Entries 84
Mean 51.94
Std Dev 0

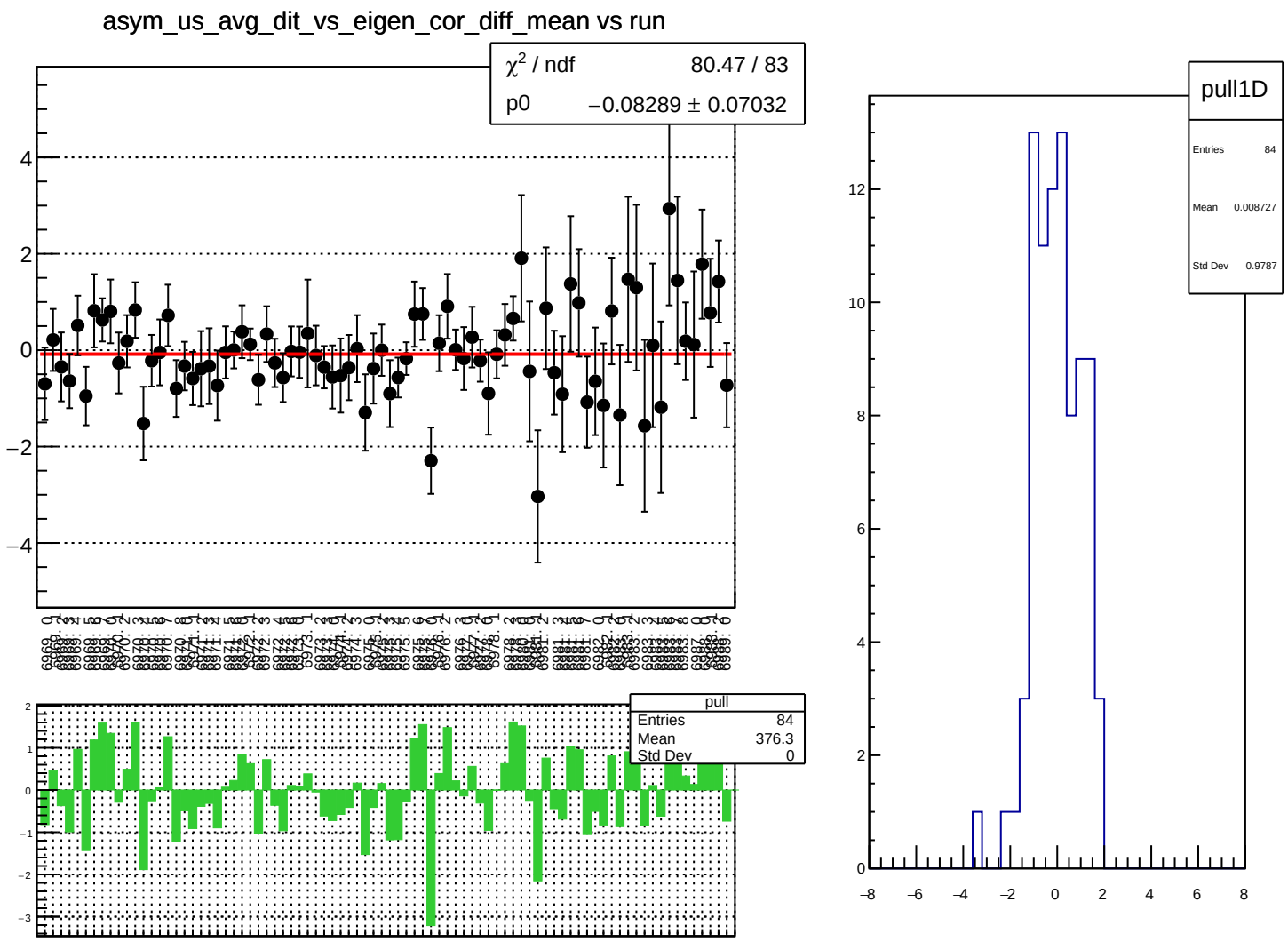

pull1D
Entries 84
Mean 0.09411
Std Dev 1.09

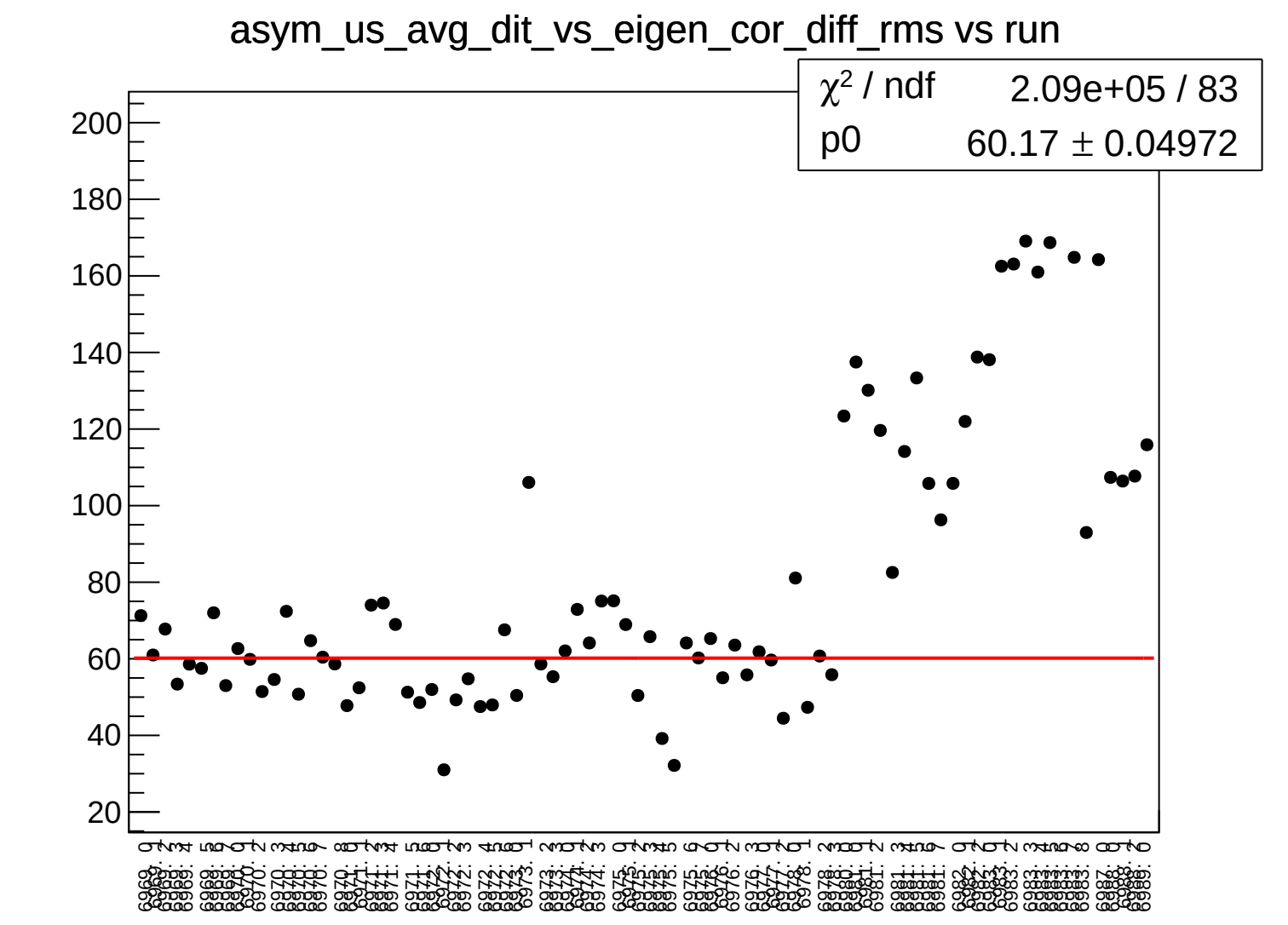

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.324e+05 / 83
p0 4.649e−11 ± 4.173e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

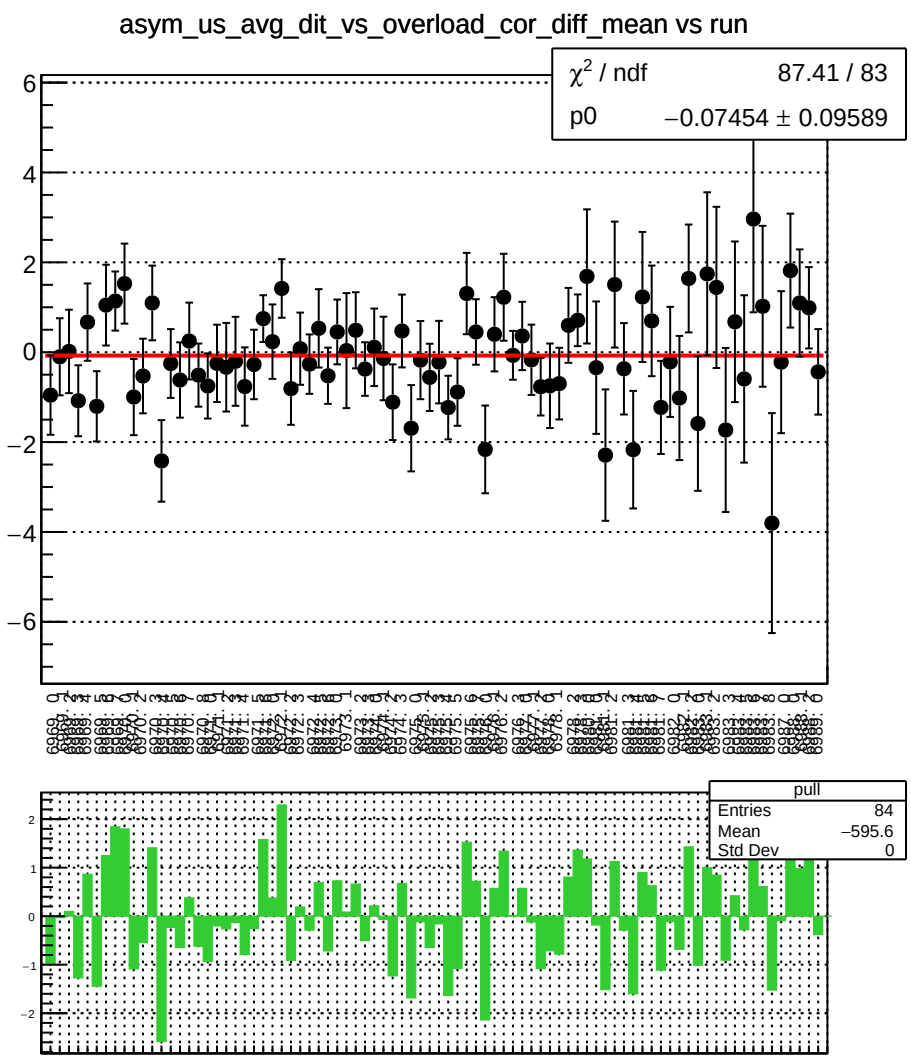

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.47 / 83
p0 −0.08289 ± 0.07032
pull
Entries 84
Mean 376.3
Std Dev 0

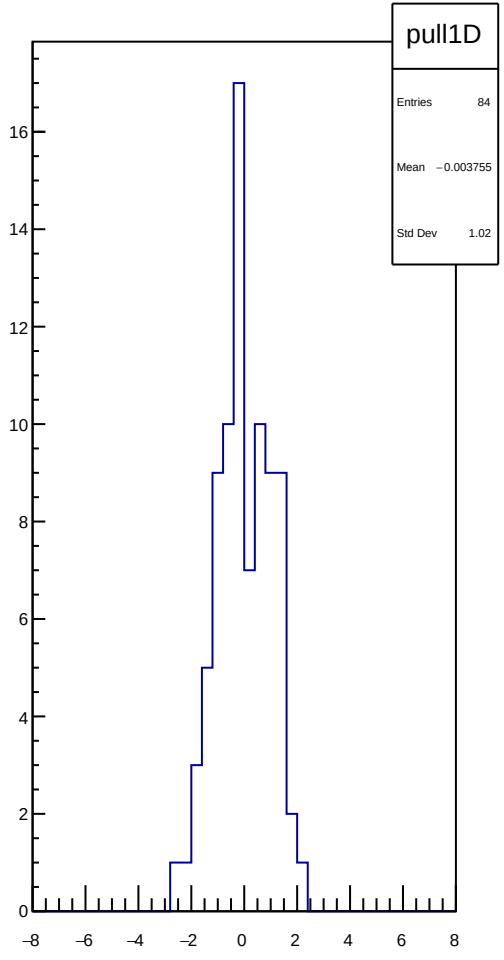

pull1D
Entries 84
Mean 0.008727
Std Dev 0.9787

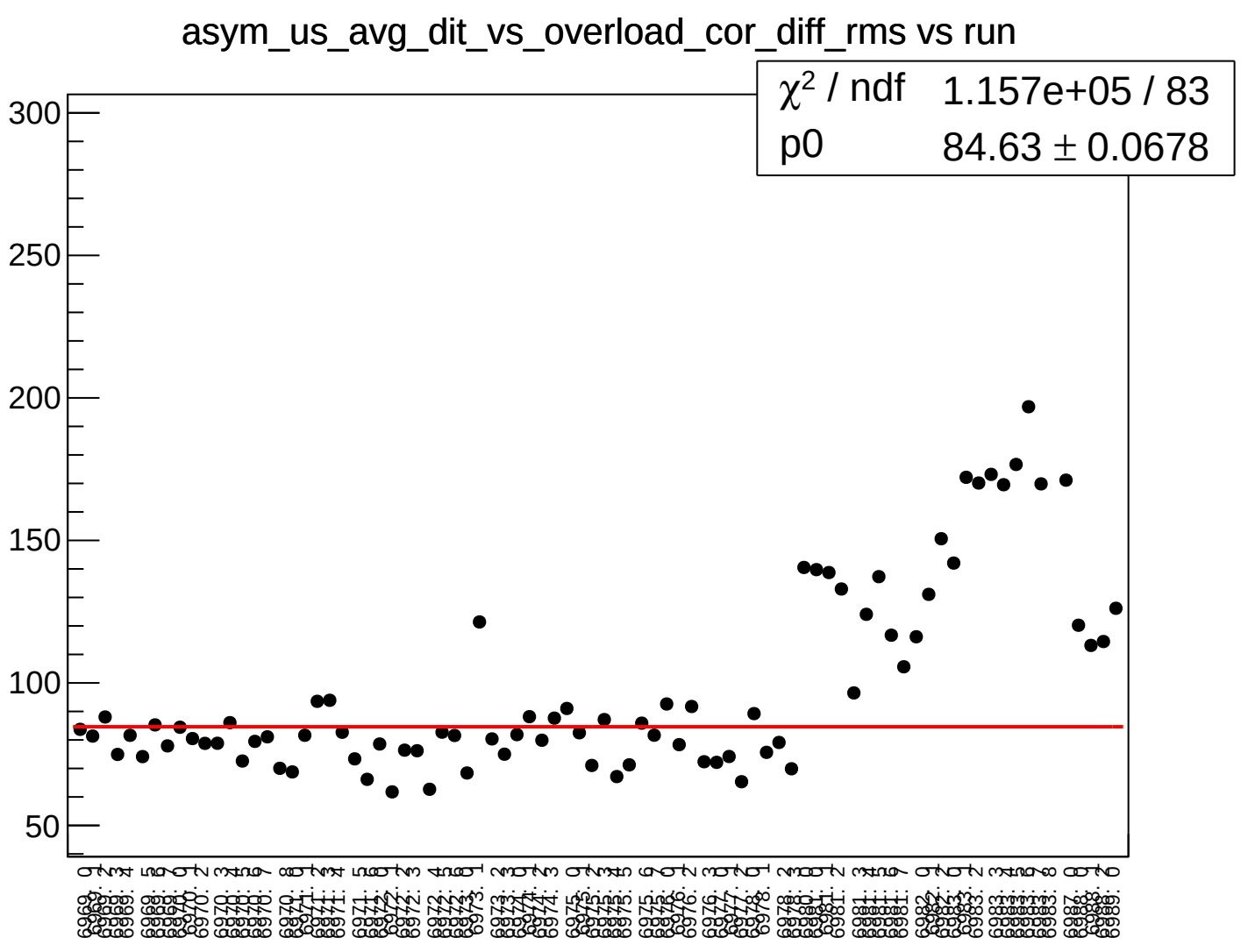

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.09e+05 / 83
p0 60.17 ± 0.04972
200
180
160
140
120
100
80
60
40
20

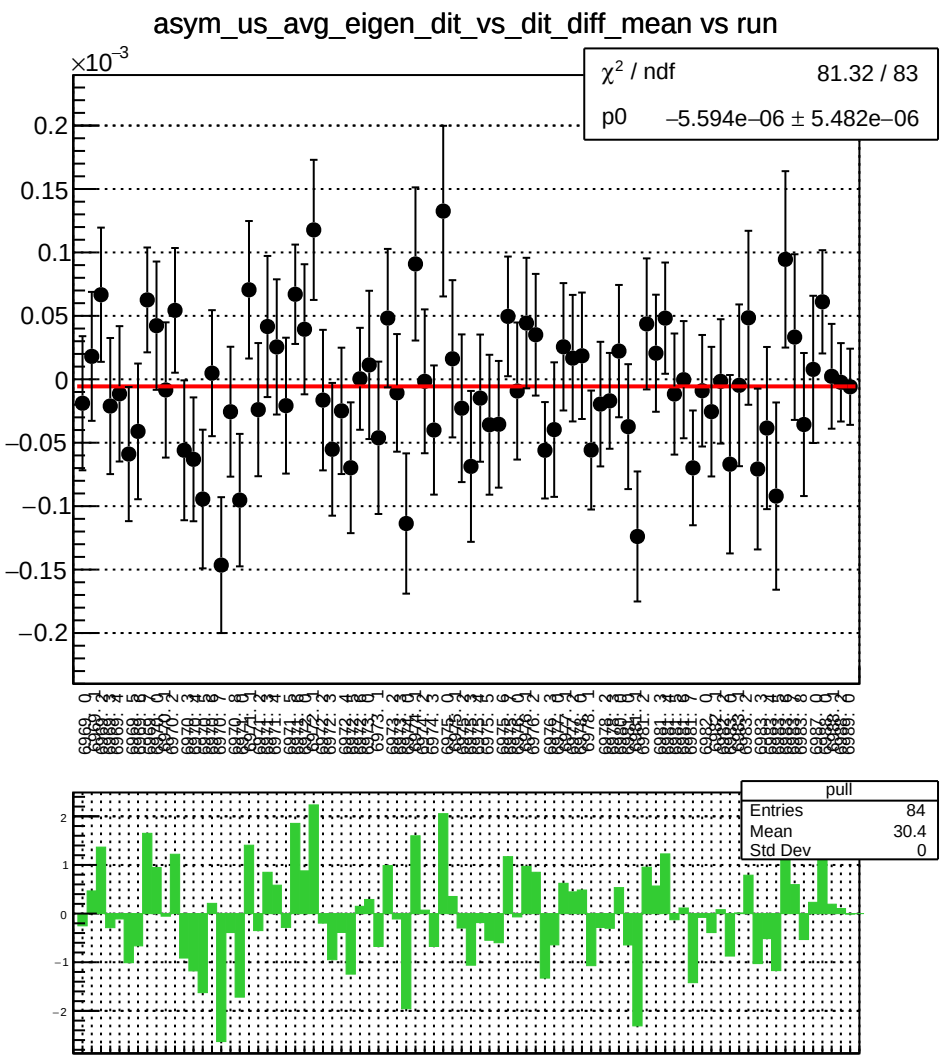

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.47 / 83
p0 −0.08289 ± 0.07032
pull
Entries 84
Mean 376.3
Std Dev 0
pull1D
Entries 84
Mean 0.008727
Std Dev 0.9787

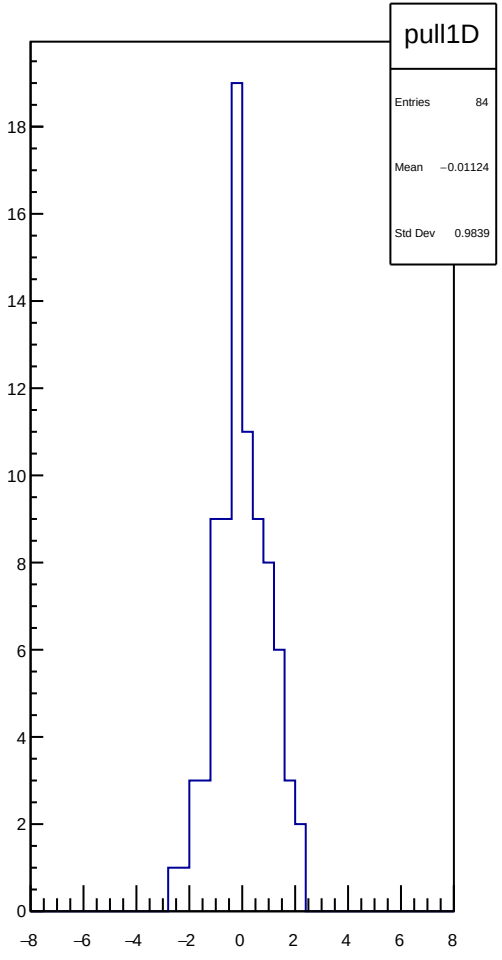

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.09e+05 / 83
p0 60.17 ± 0.04972
200
180
160
140
120
100
80
60
40
20

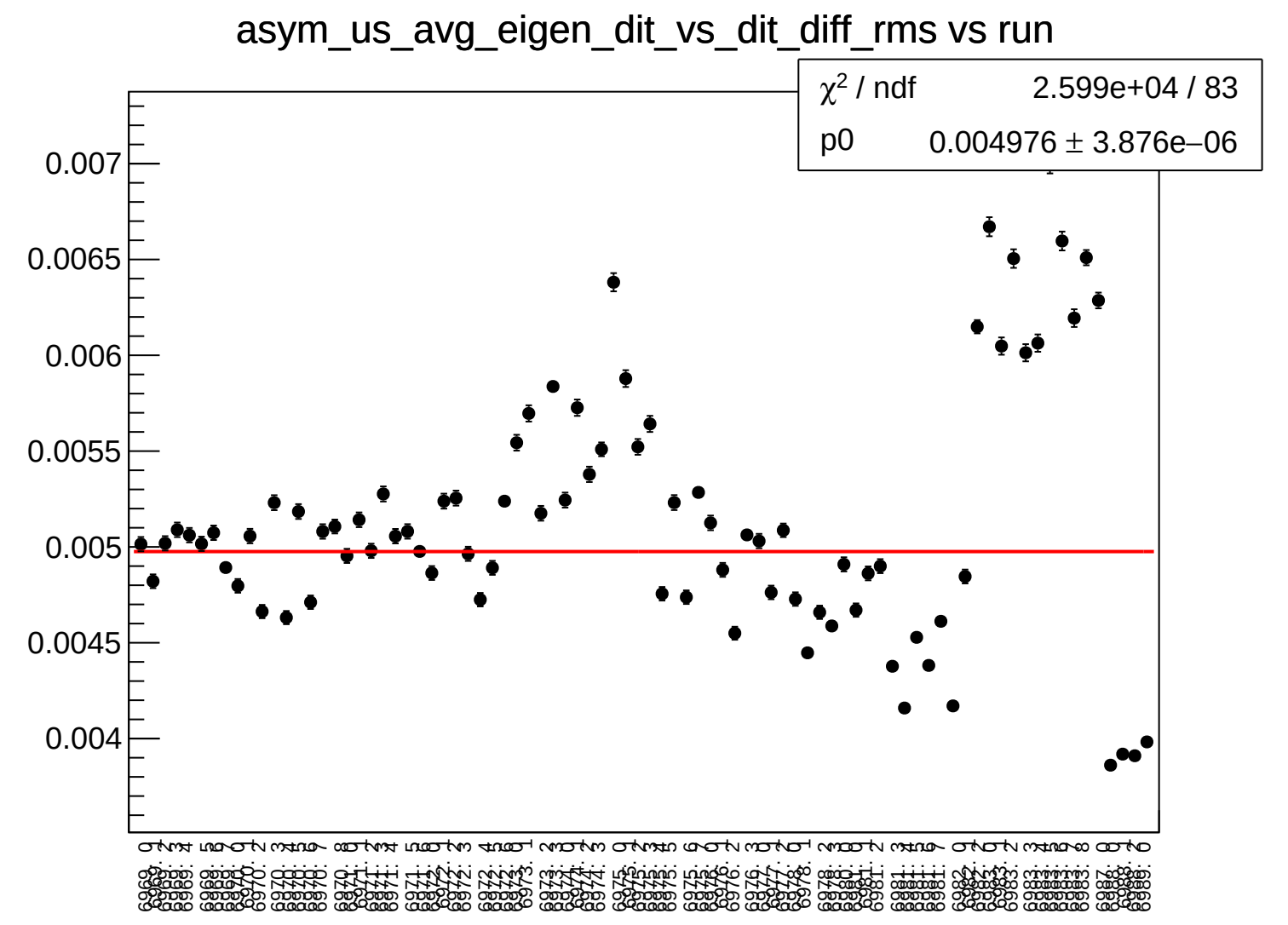

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.41 / 83
p0 −0.07454 ± 0.09589
pull
Entries 84
Mean −595.6
Std Dev 0

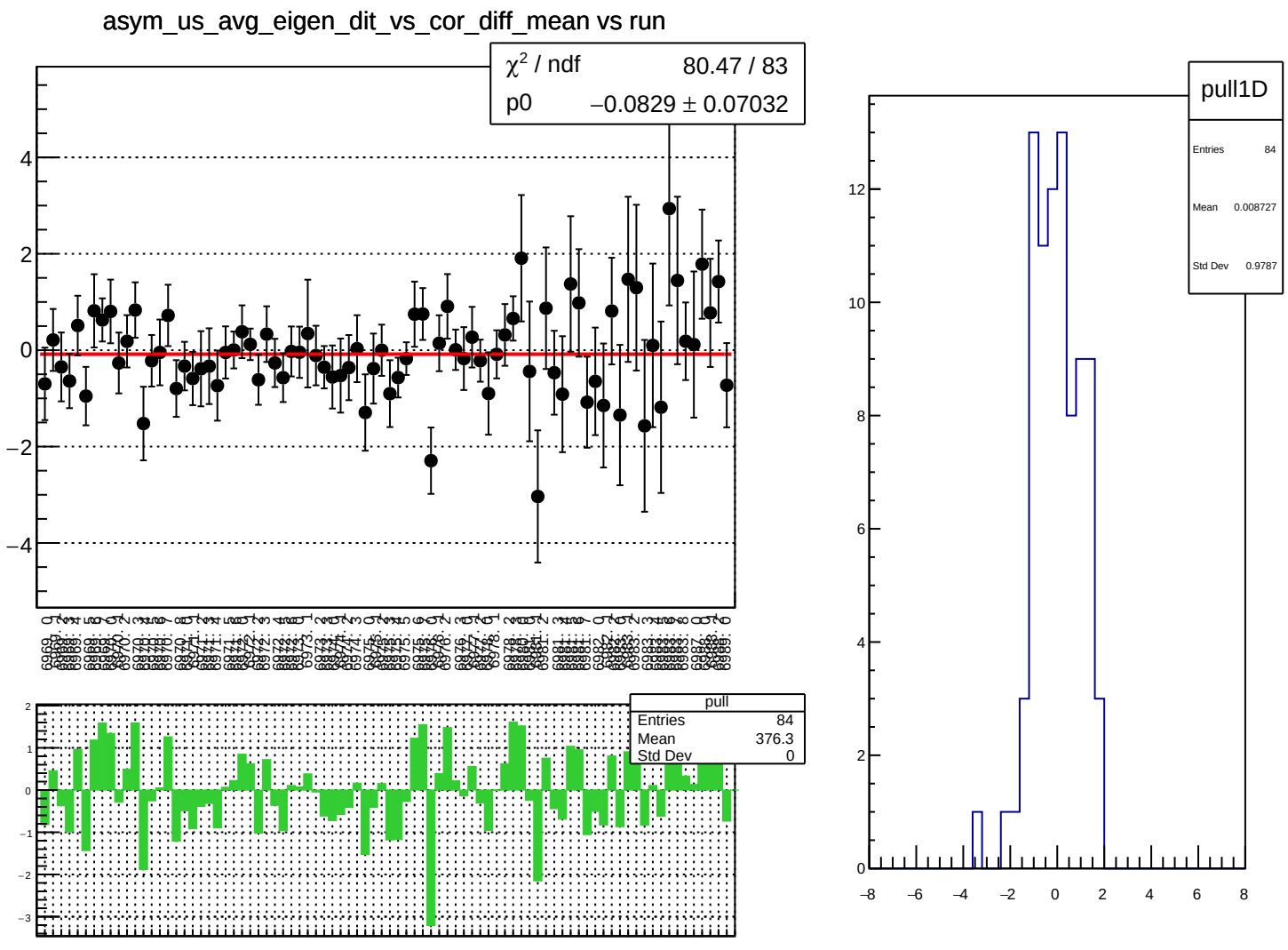

pull1D
Entries 84
Mean −0.003755
Std Dev 1.02

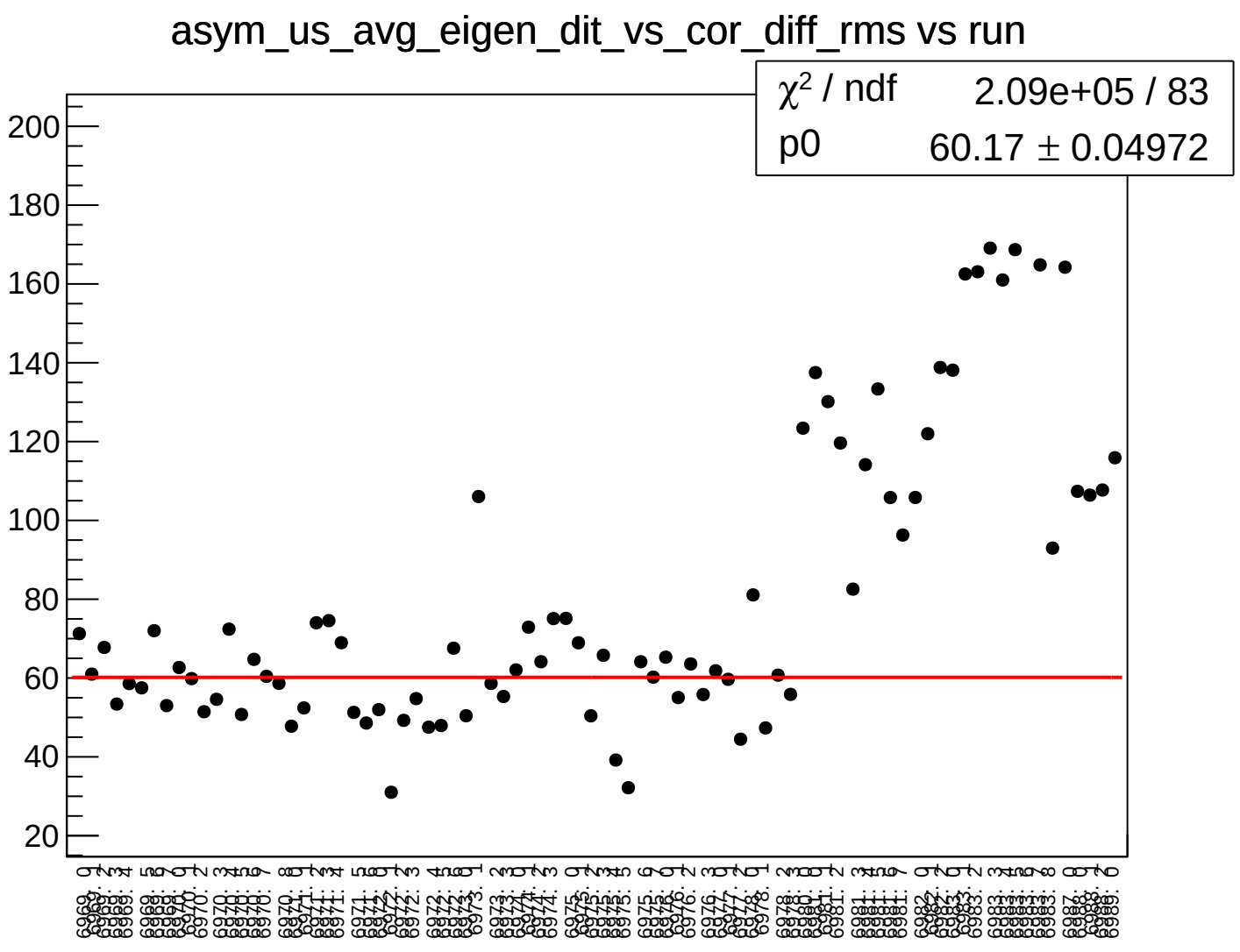

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.157e+05 / 83
p0 84.63 ± 0.0678
300
250
200
150
100
50

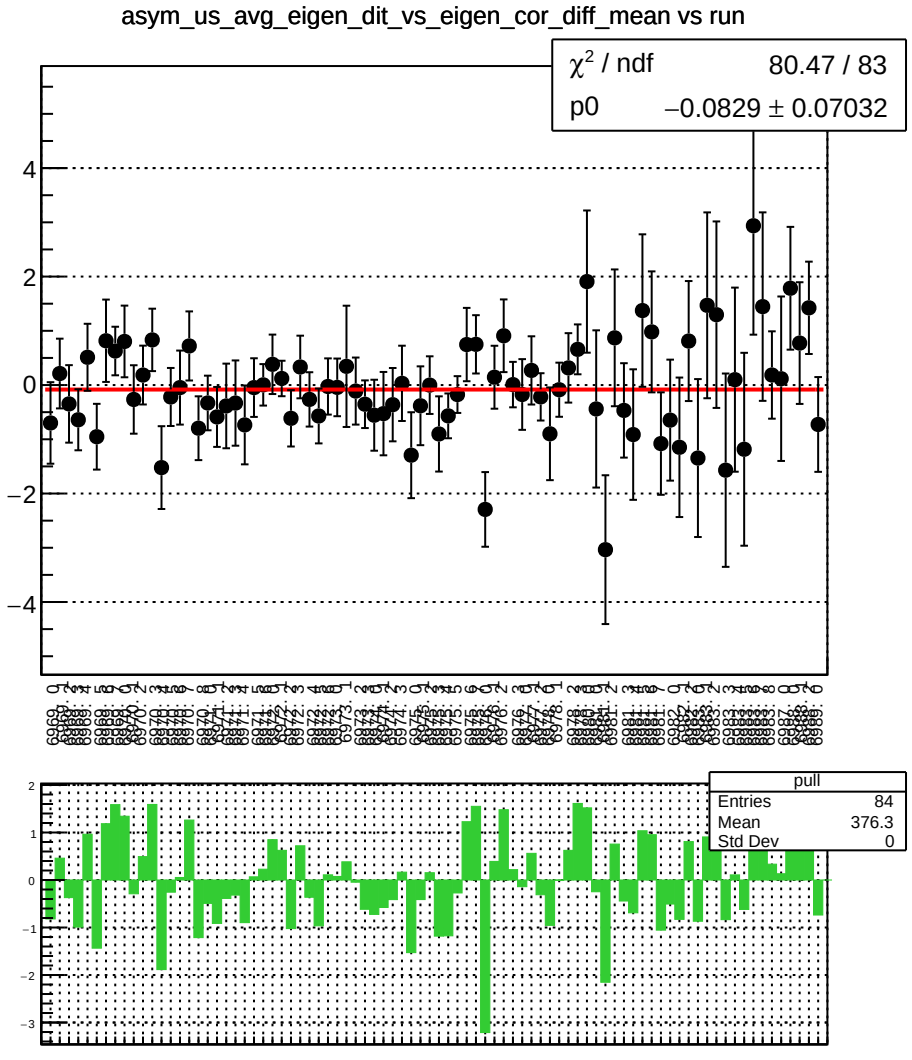

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 81.32 / 83
p0 −5.594e−06 ± 5.482e−06
pull
Entries 84
Mean 30.4
Std Dev 0

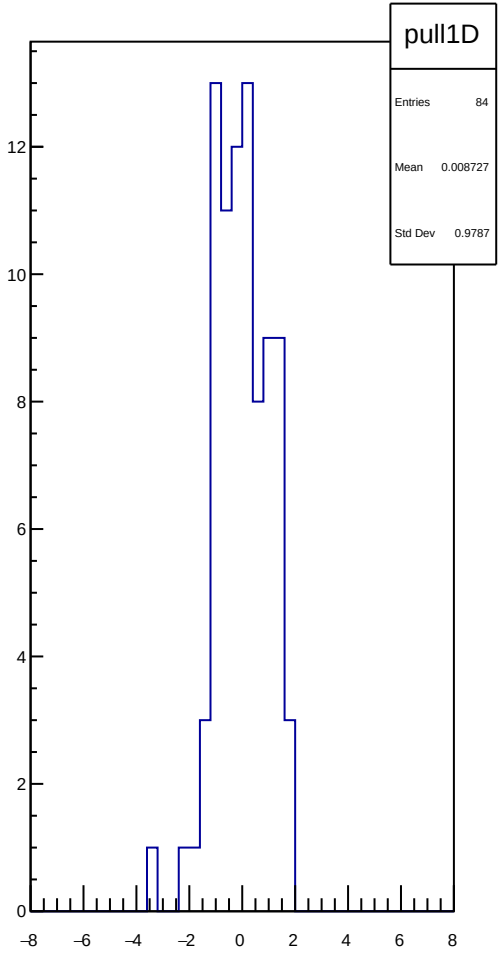

pull1D
Entries 84
Mean −0.01124
Std Dev 0.9839

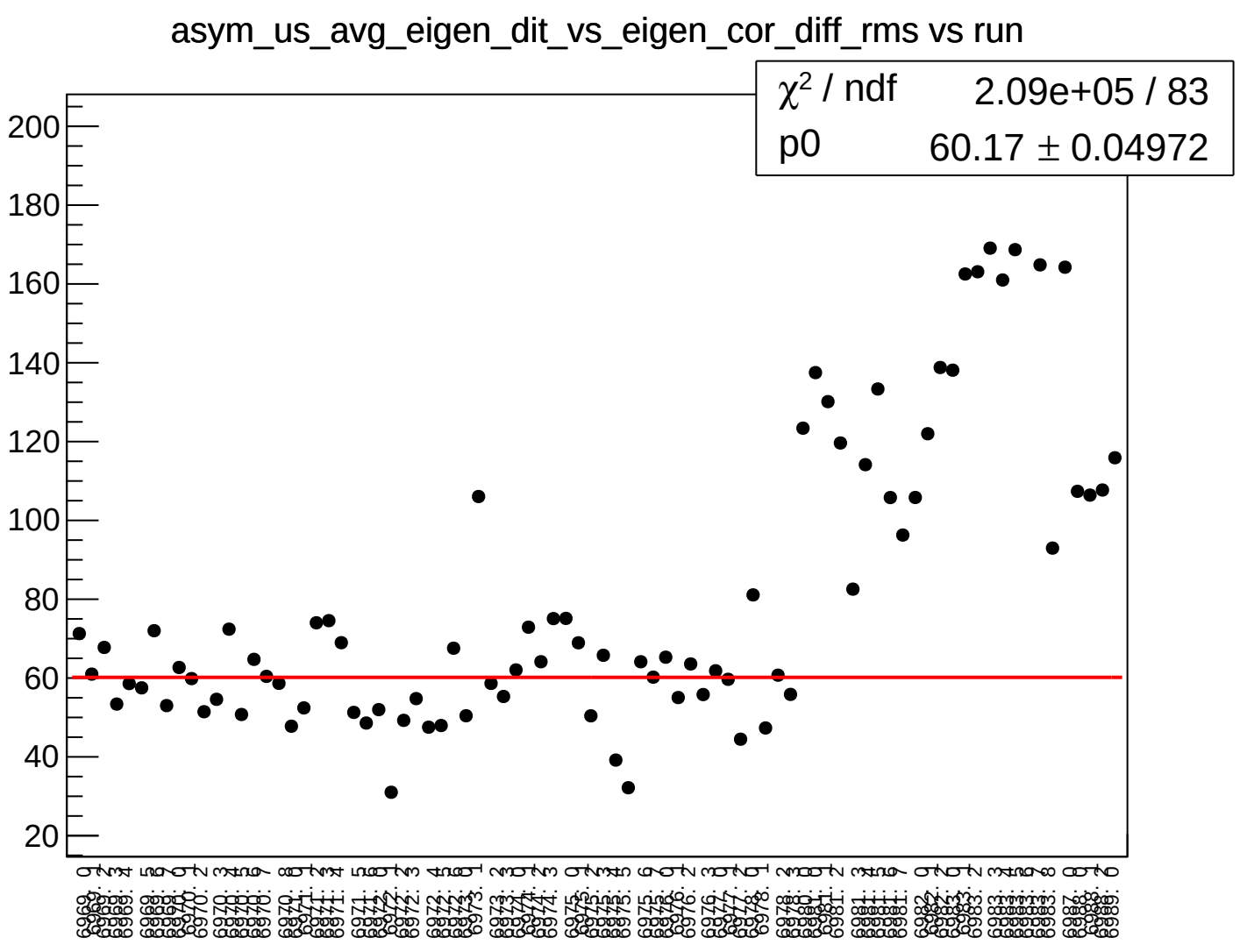

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.599e+04 / 83
p0 0.004976 ± 3.876e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

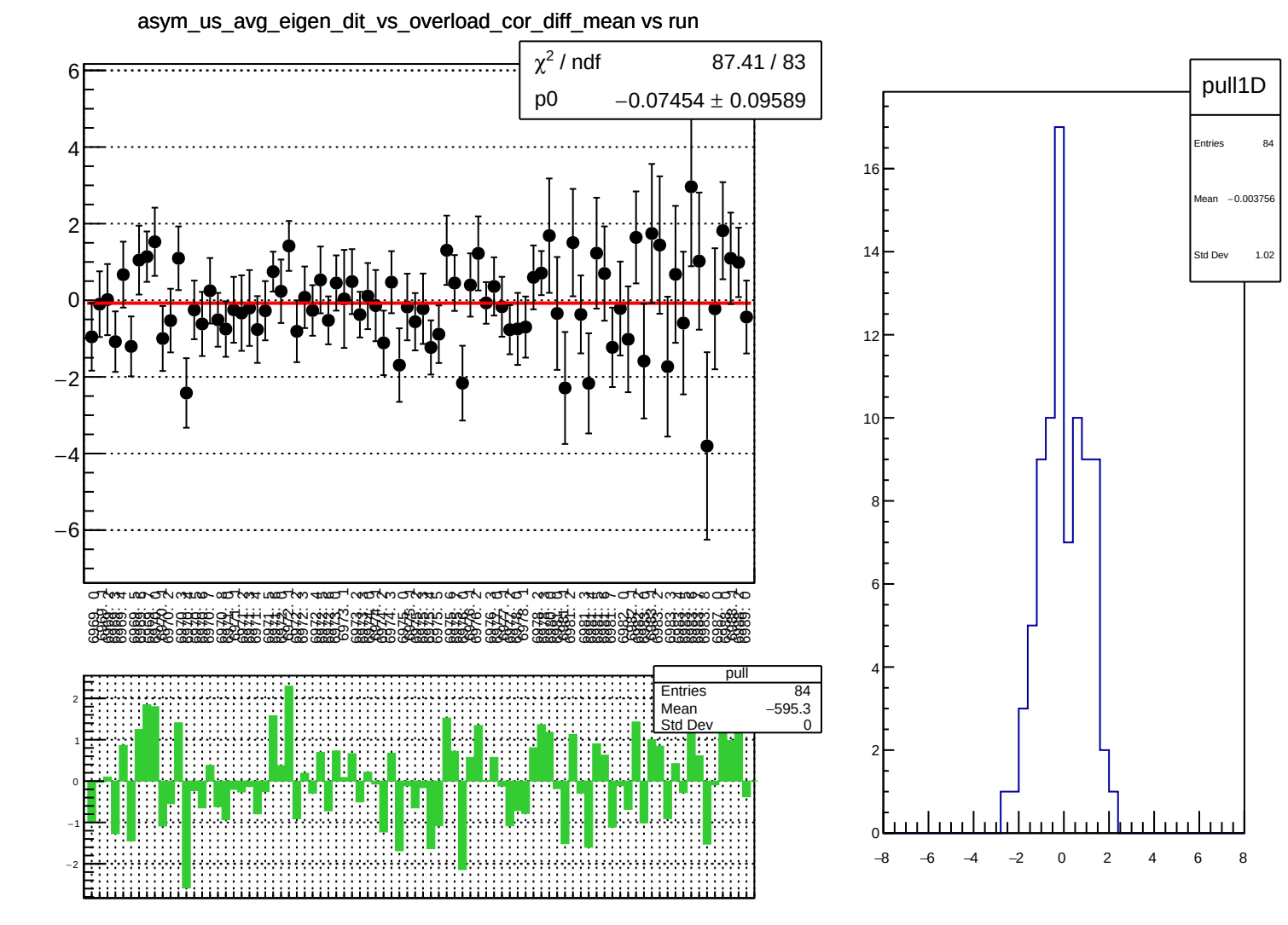

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.47 / 83
p0 −0.0829 ± 0.07032
pull
Entries 84
Mean 376.3
Std Dev 0
pull1D
Entries 84
Mean 0.008727
Std Dev 0.9787

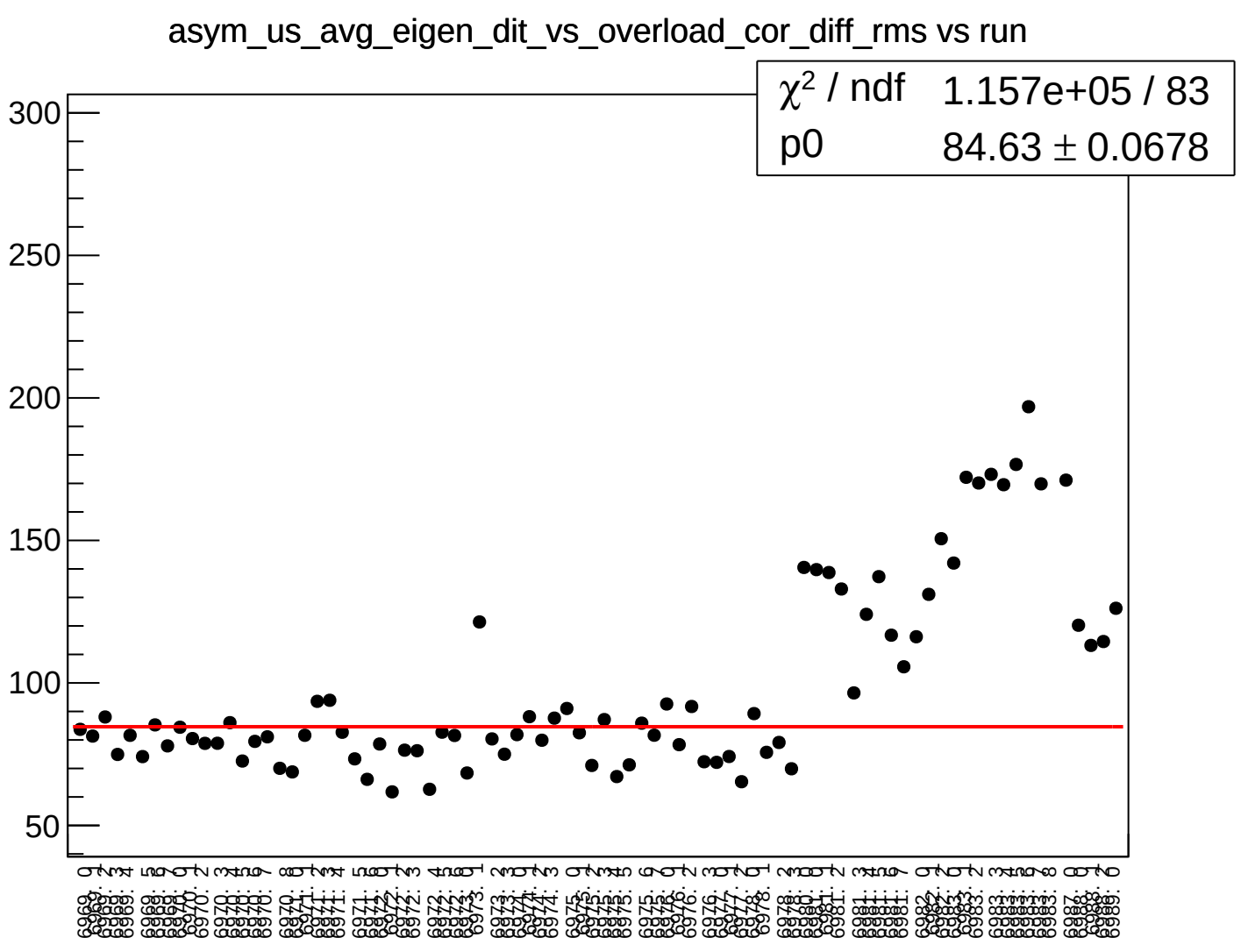

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.09e+05 / 83
p0 60.17 ± 0.04972
200
180
160
140
120
100
80
60
40
20

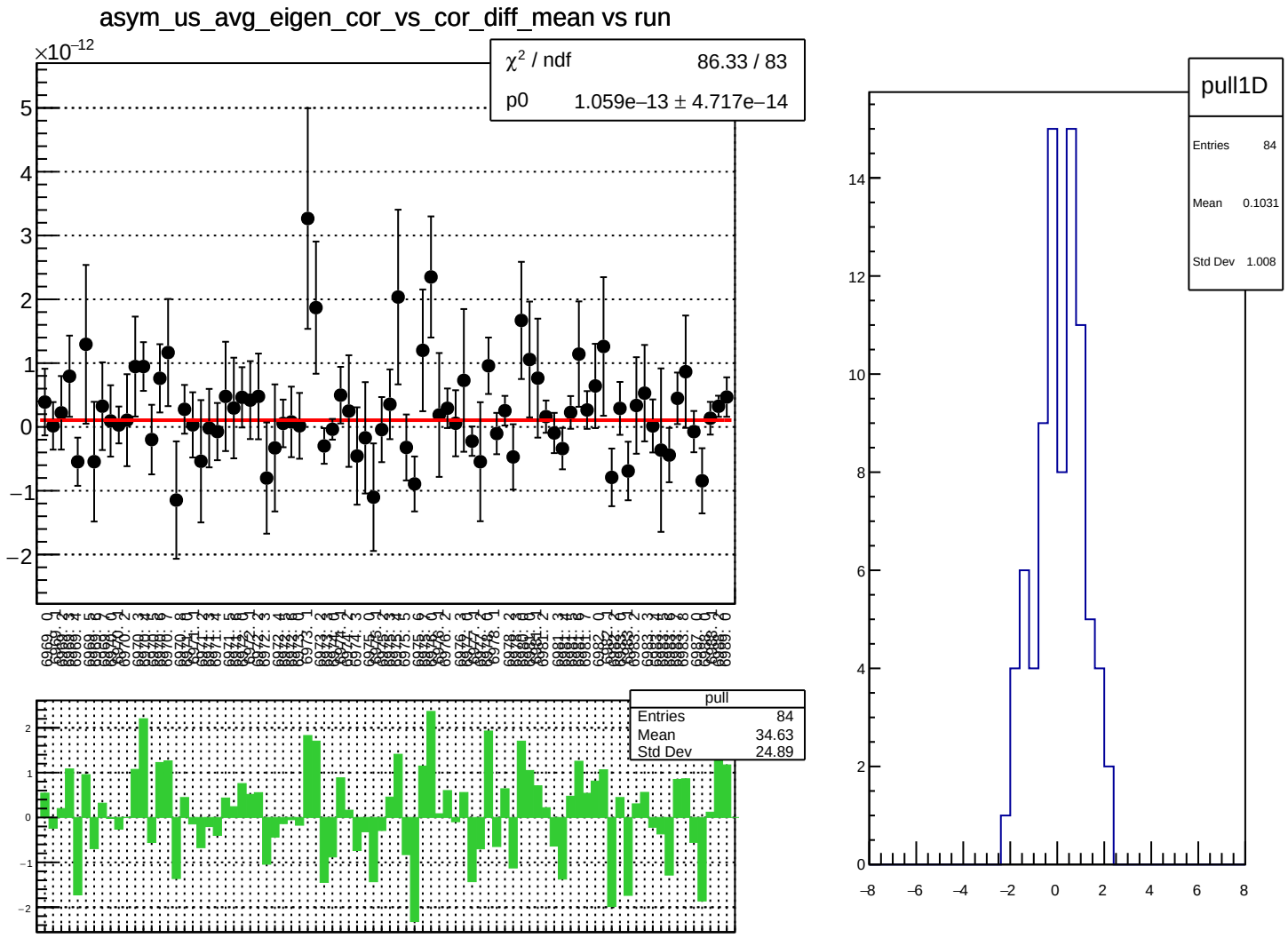

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.47 / 83
p0 −0.0829 ± 0.07032
pull
Entries 84
Mean 376.3
Std Dev 0

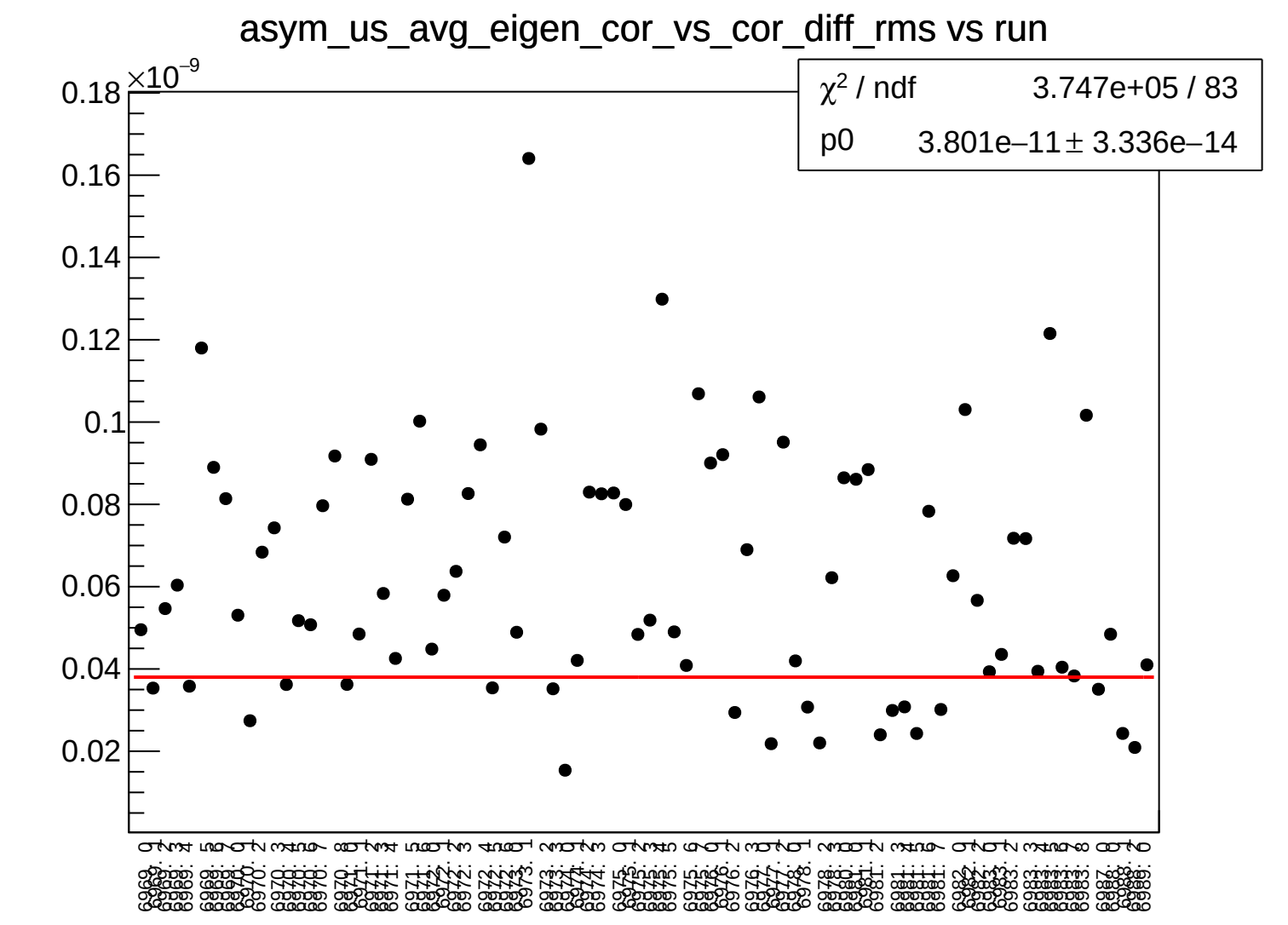

pull1D
Entries 84
Mean 0.008727
Std Dev 0.9787

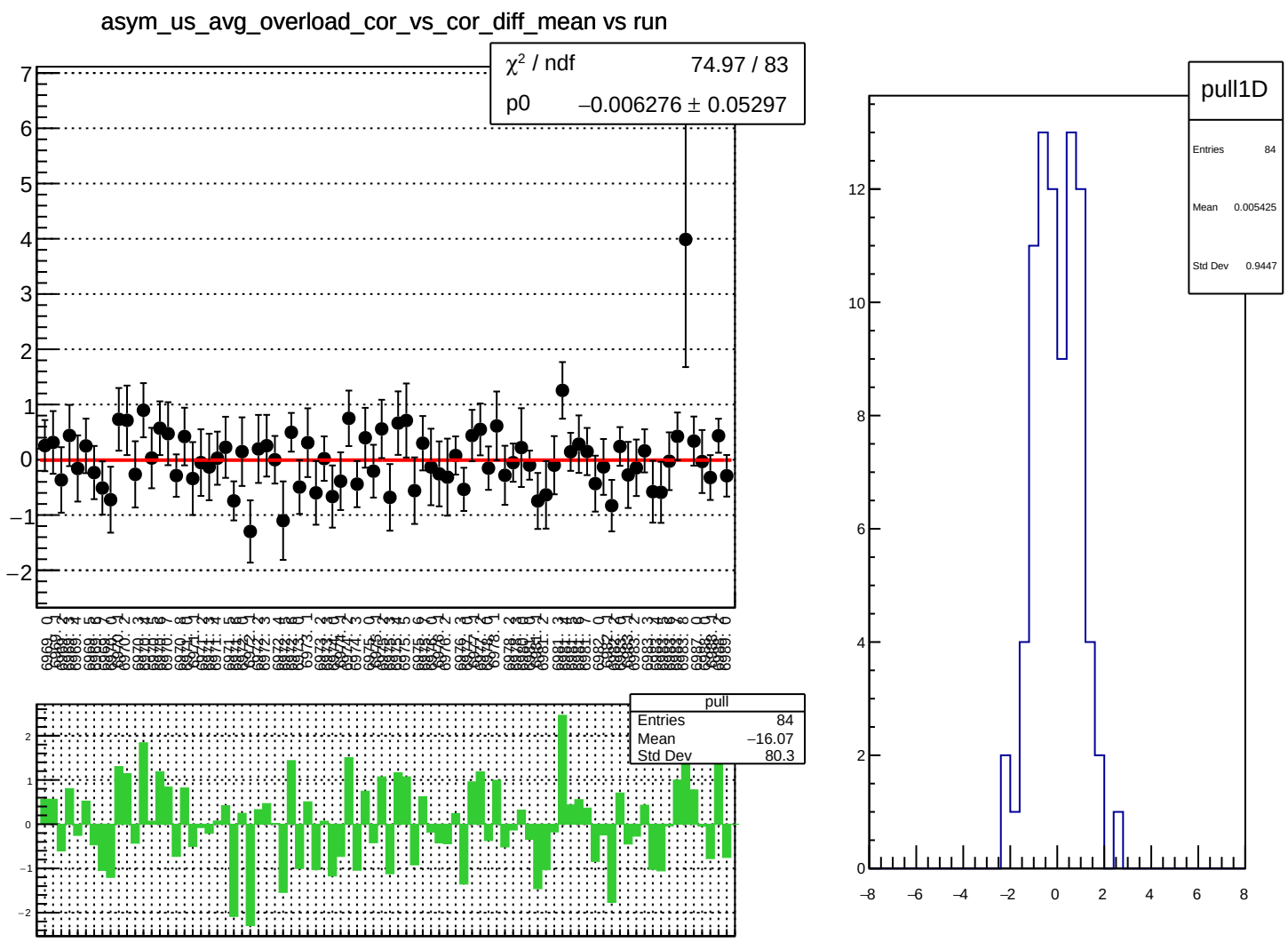

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.09e+05 / 83
p0 60.17 ± 0.04972
200
180
160
140
120
100
80
60
40
20

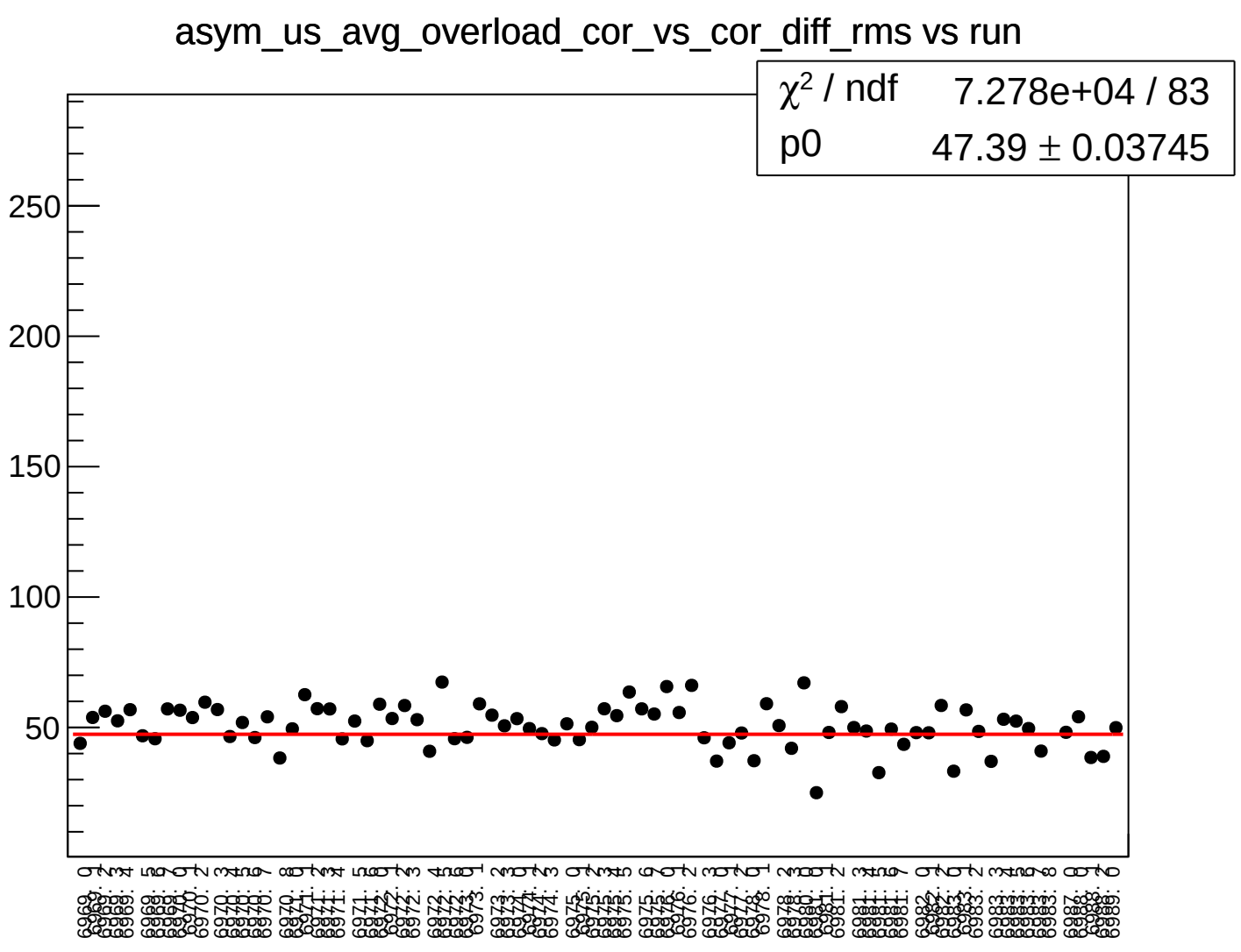

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.41 / 83
p0 −0.07454 ± 0.09589
pull
Entries 84
Mean −595.3
Std Dev 0
pull1D
Entries 84
Mean −0.003756
Std Dev 1.02

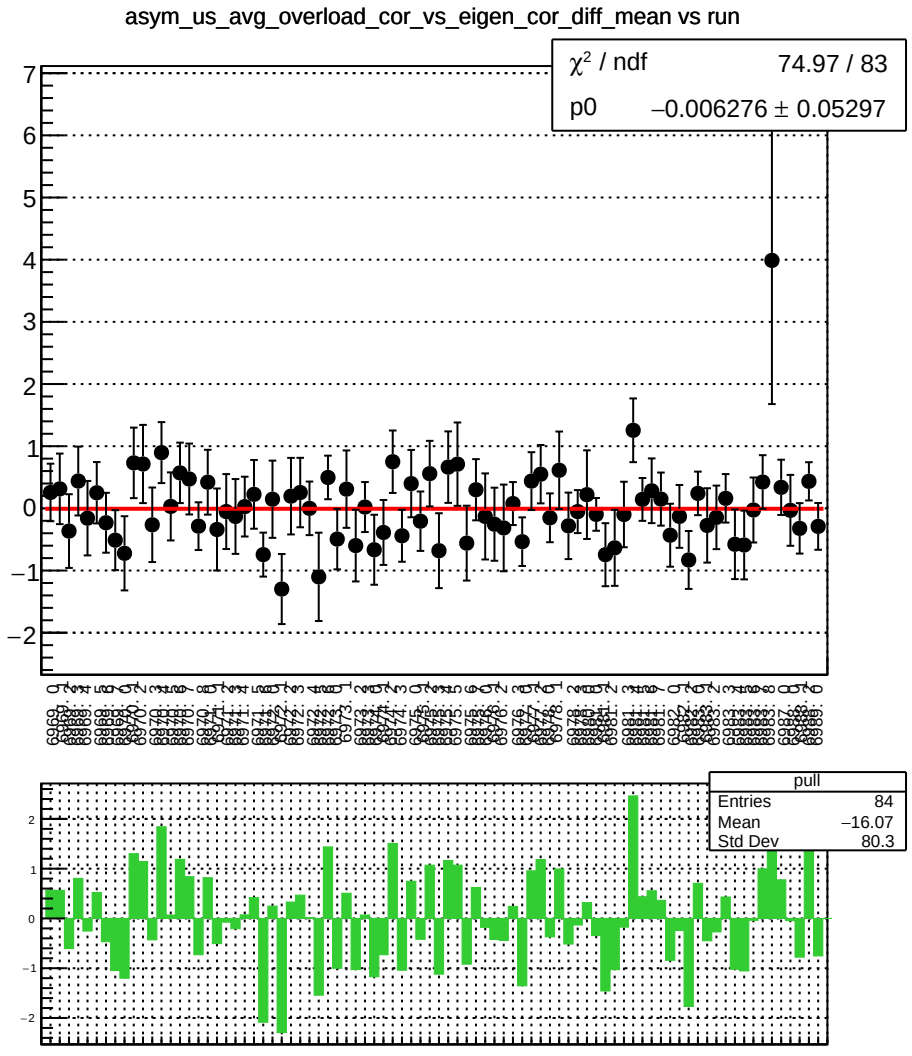

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.157e+05 / 83
p0 84.63 ± 0.0678
300
250
200
150
100
50

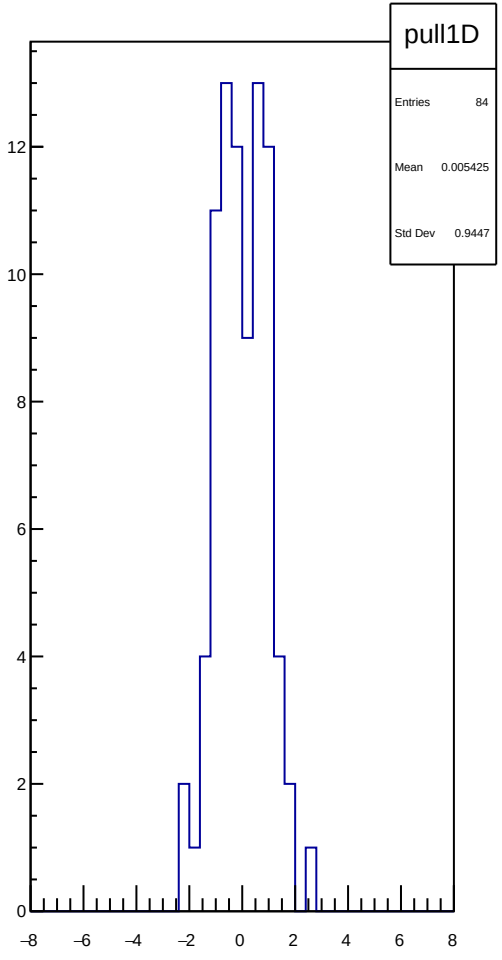

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.33 / 83
p0 1.059e−13 ± 4.717e−14
pull
Entries 84
Mean 34.63
Std Dev 24.89
pull1D
Entries 84
Mean 0.1031
Std Dev 1.008

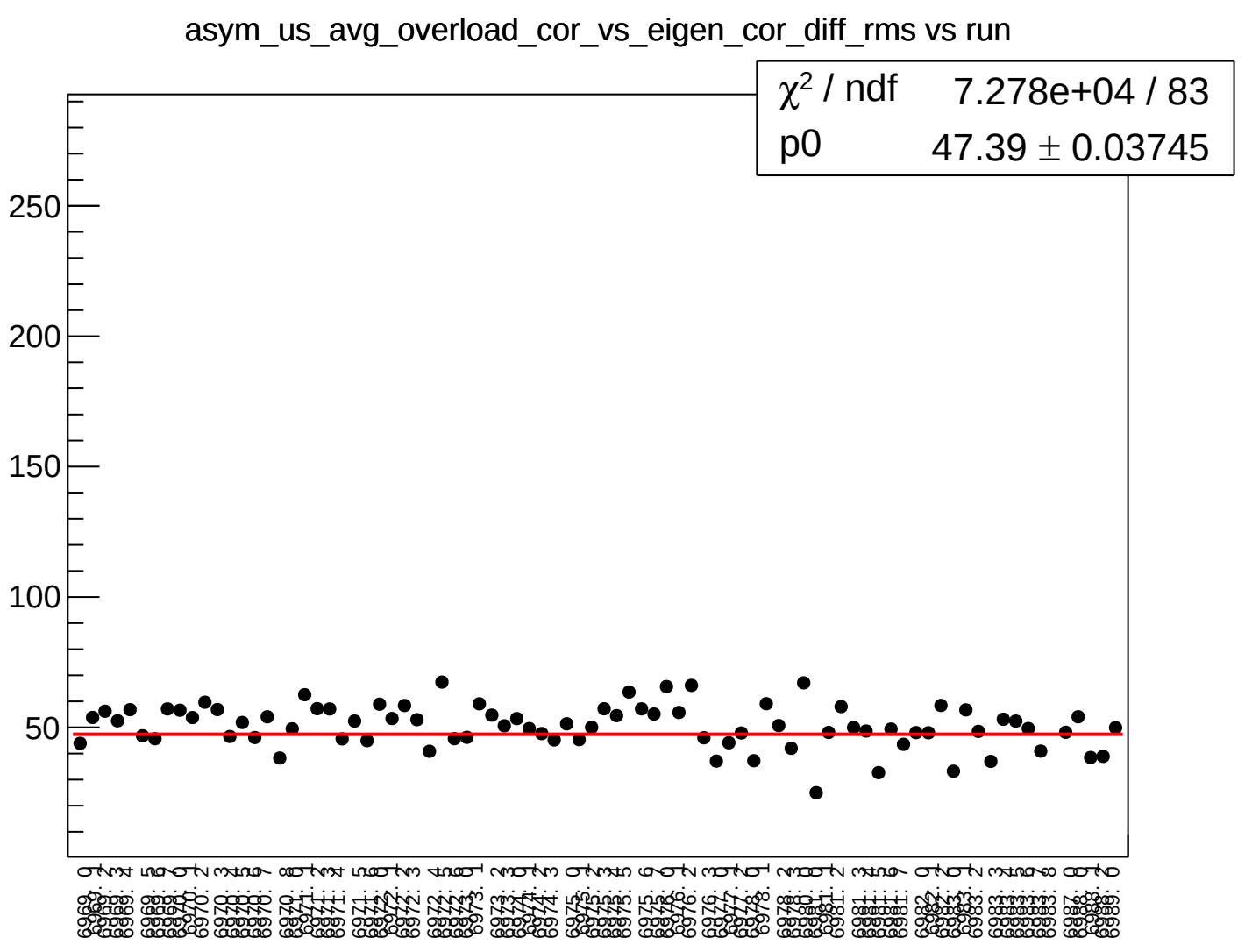

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.747e+05 / 83
p0 3.801e−11 ± 3.336e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

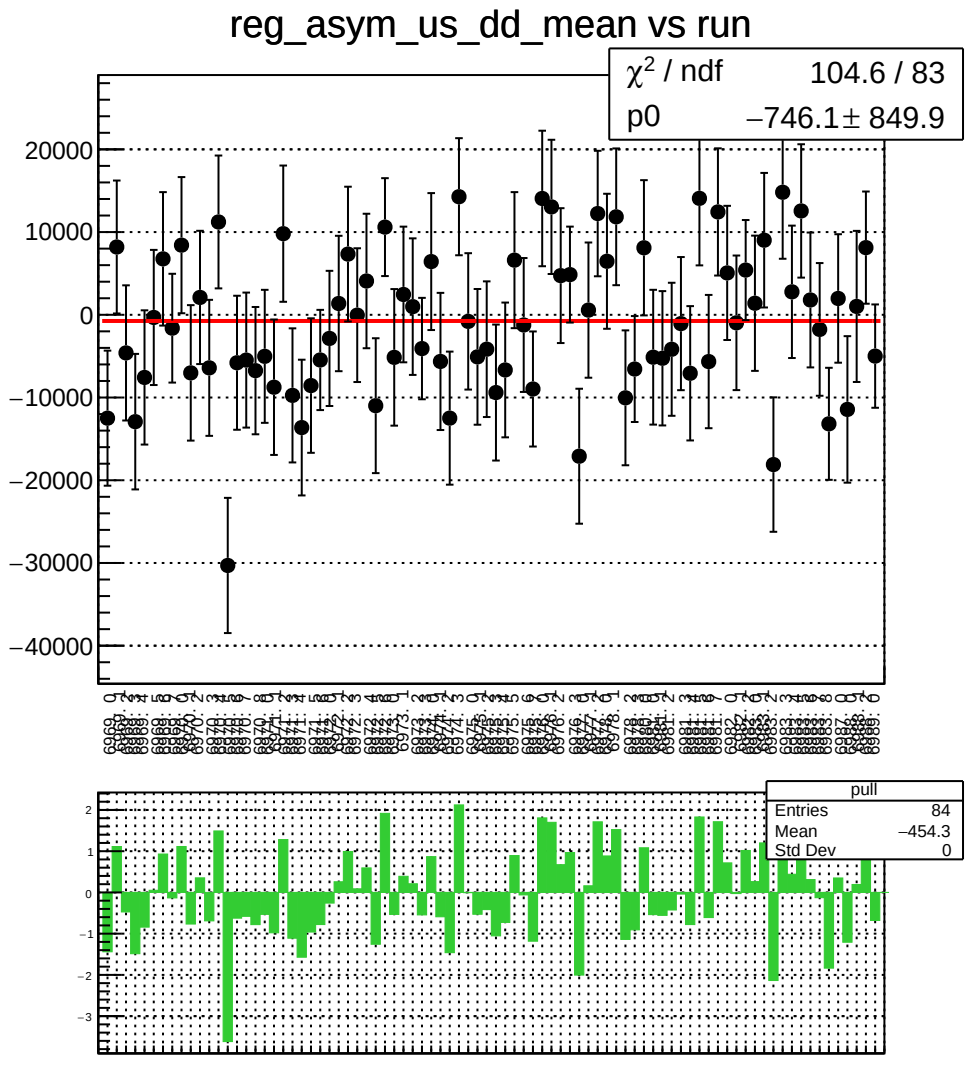

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 74.97 / 83
p0 −0.006276 ± 0.05297
pull
Entries 84
Mean −16.07
Std Dev 80.3
pull1D
Entries 84
Mean 0.005425
Std Dev 0.9447

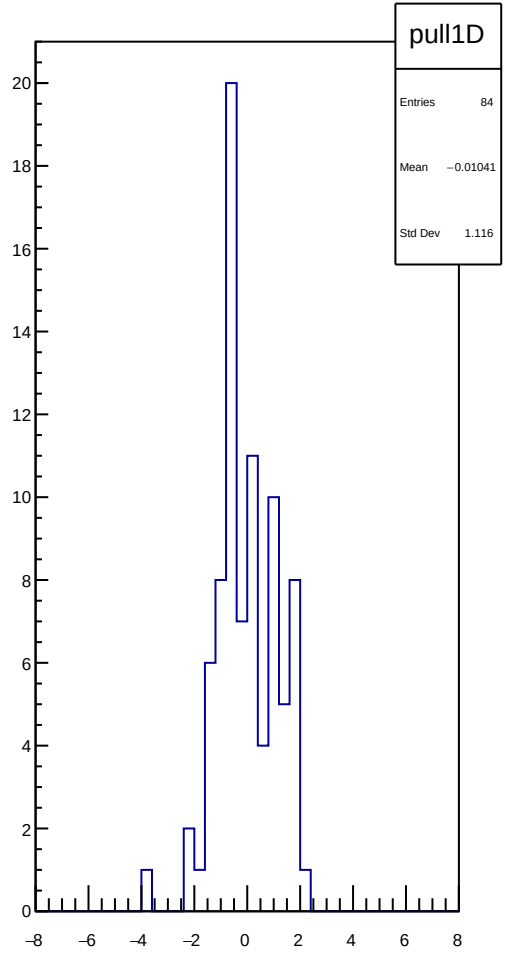

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 7.278e+04 / 83
p0 47.39 ± 0.03745
250
200
150
100
50

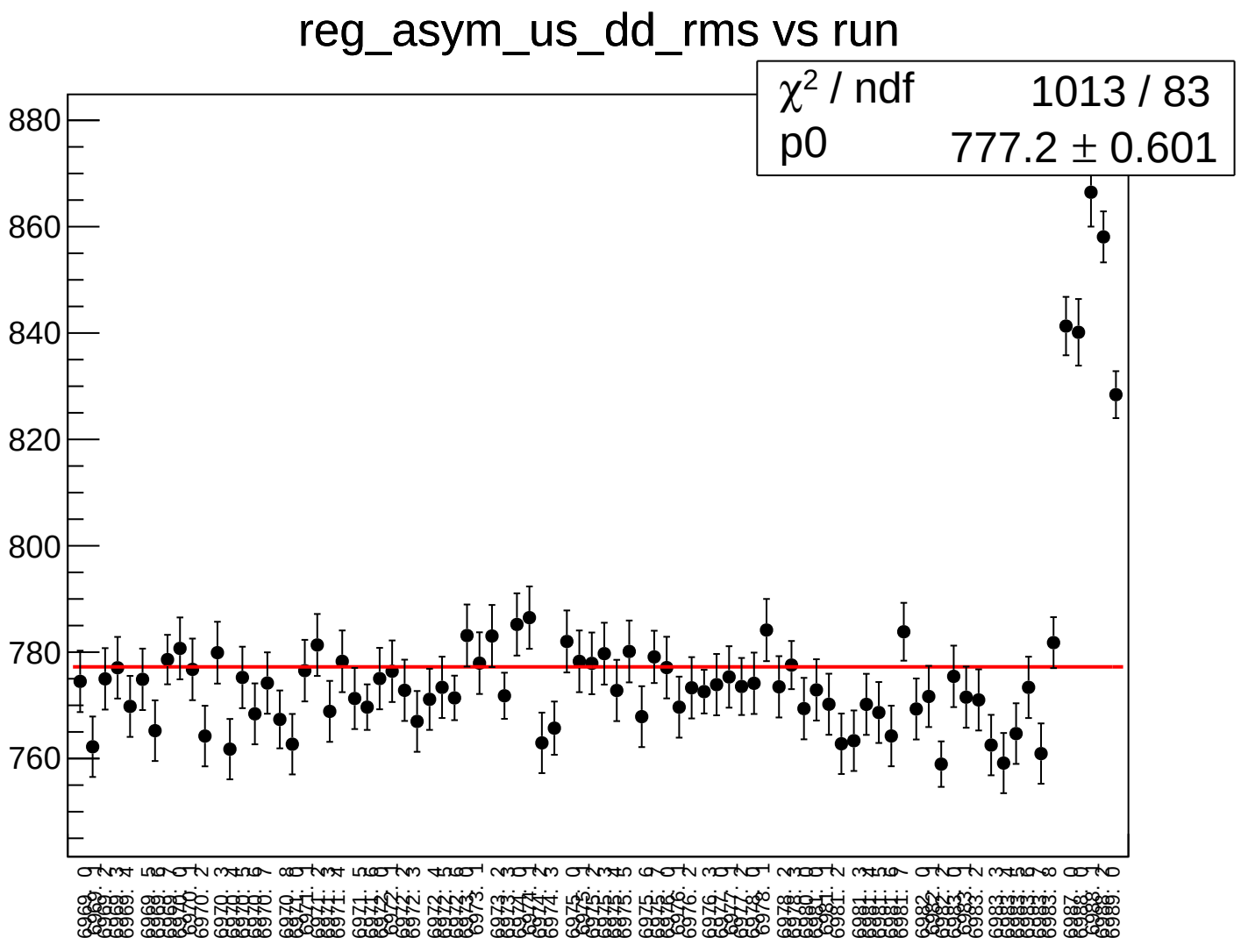

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.97 / 83
p0 −0.006276 ± 0.05297
pull
Entries 84
Mean −16.07
Std Dev 80.3

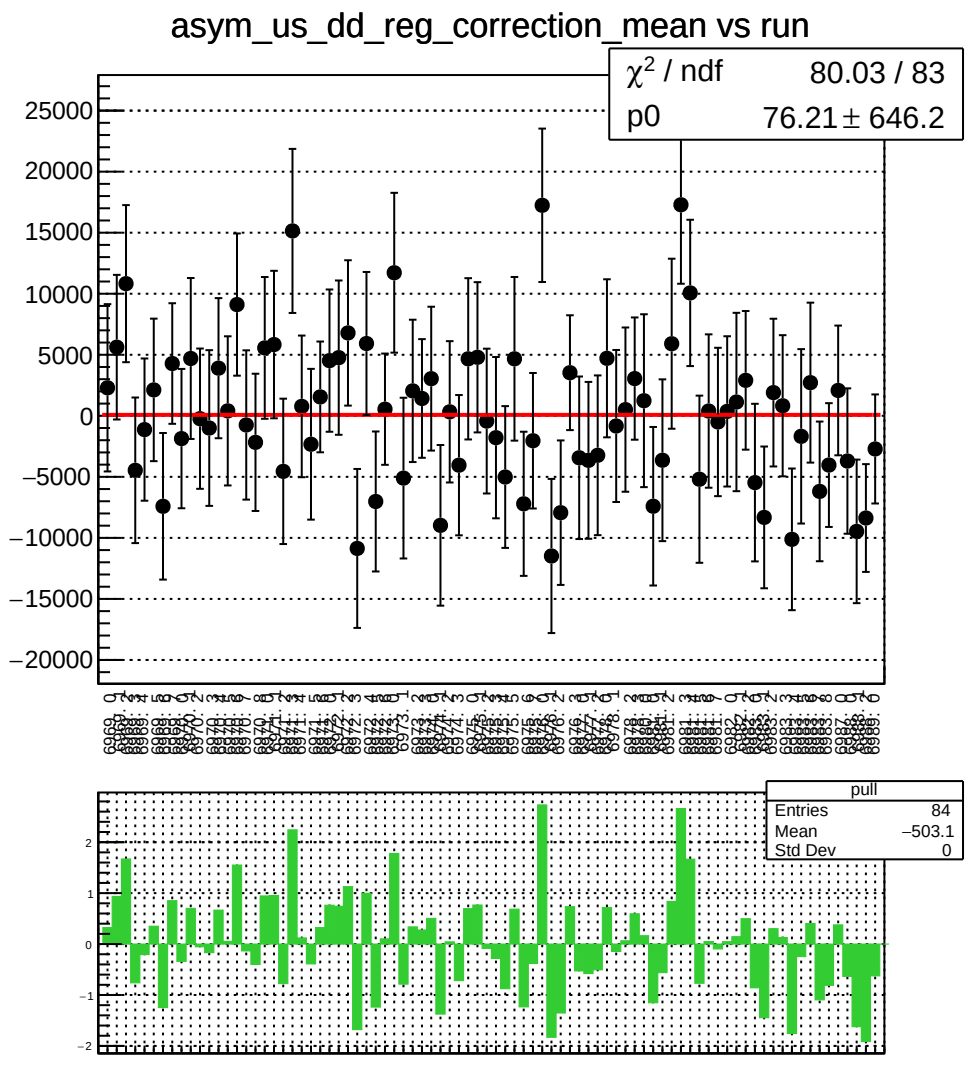

pull1D
Entries 84
Mean 0.005425
Std Dev 0.9447

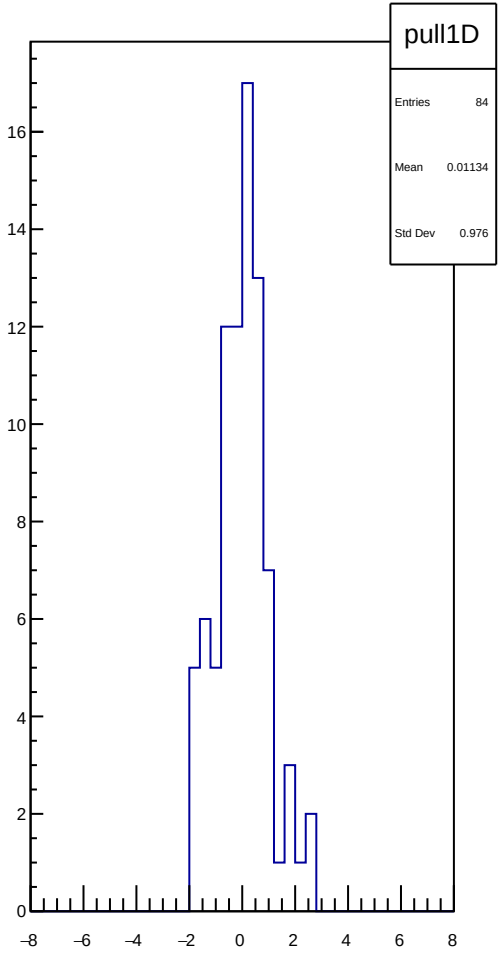

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.278e+04 / 83
p0 47.39 ± 0.03745
250
200
150
100
50

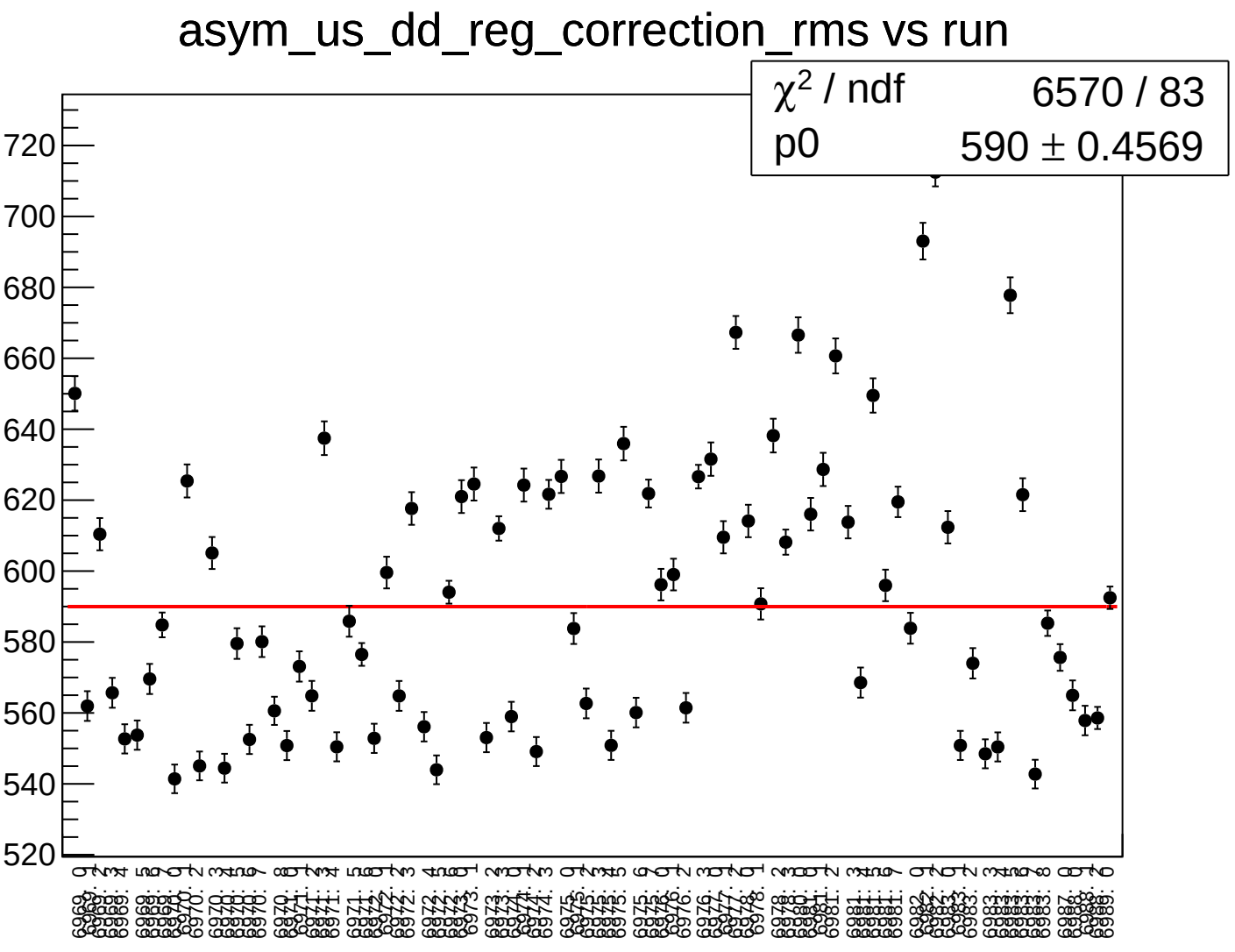

reg_asym_us_dd_mean vs run
χ² / ndf 104.6 / 83
p0 −746.1 ± 849.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −454.3
Std Dev 0
2
1
0
−1
−2
−3

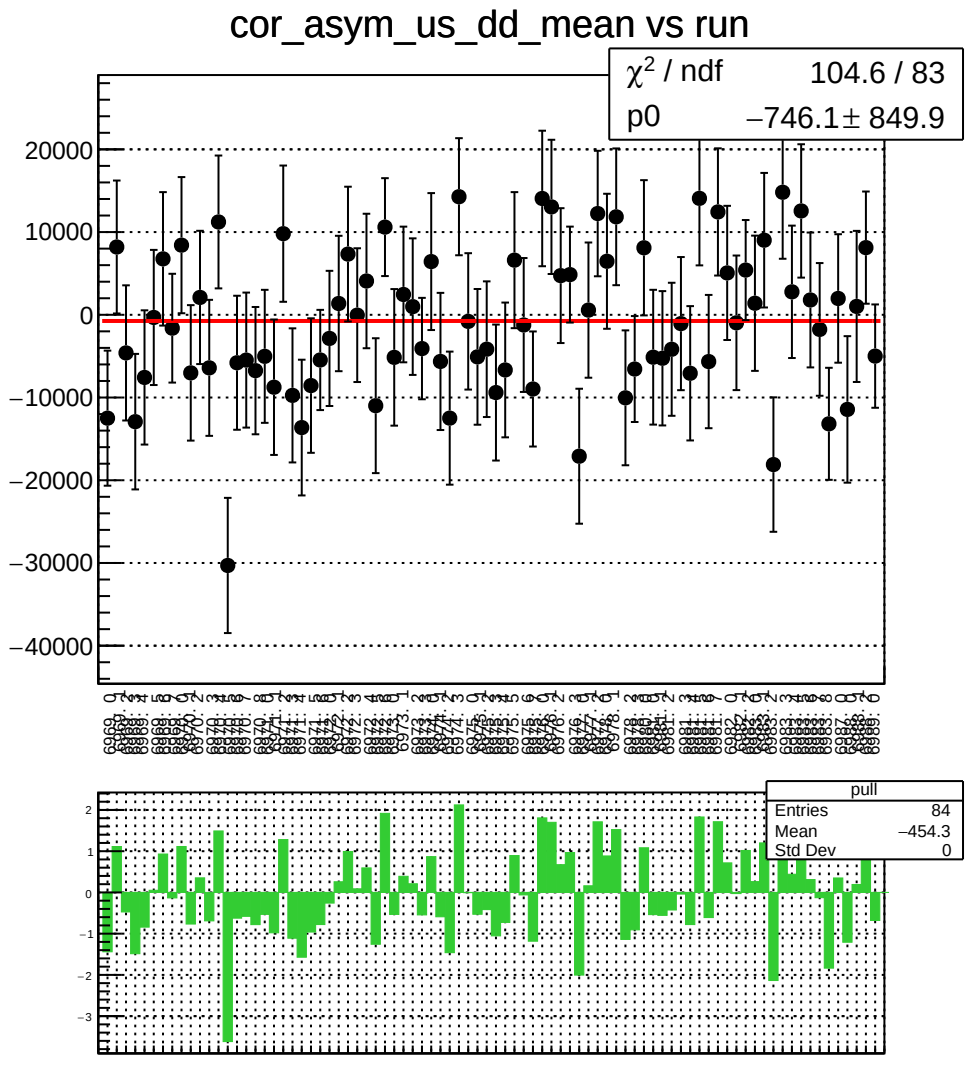

pull1D
Entries 84
Mean −0.01041
Std Dev 1.116
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

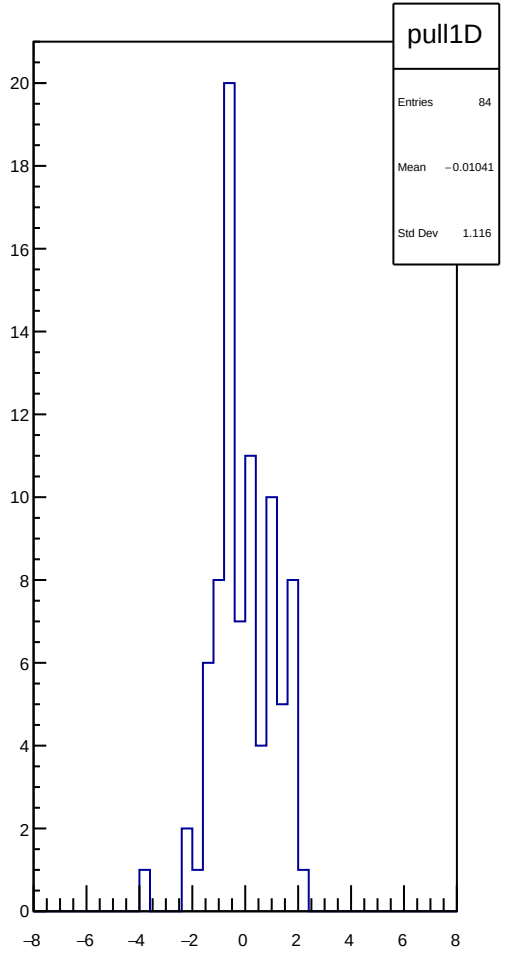

reg_asym_us_dd_rms vs run
χ² / ndf 1013 / 83
p0 777.2 ± 0.601
880
860
840
820
800
780
760

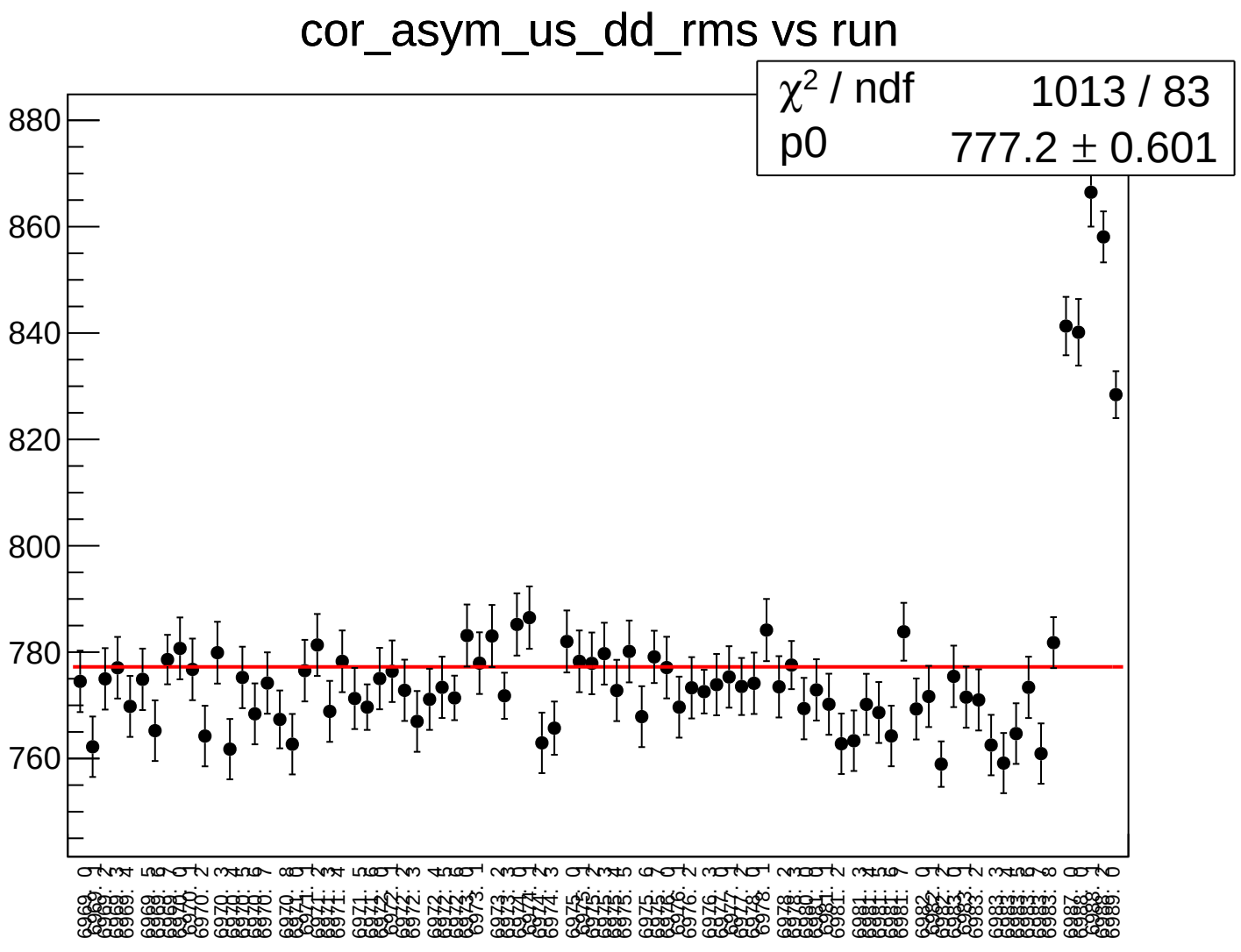

asym_us_dd_reg_correction_mean vs run
χ² / ndf 80.03 / 83
p0 76.21 ± 646.2
pull
Entries 84
Mean −503.1
Std Dev 0

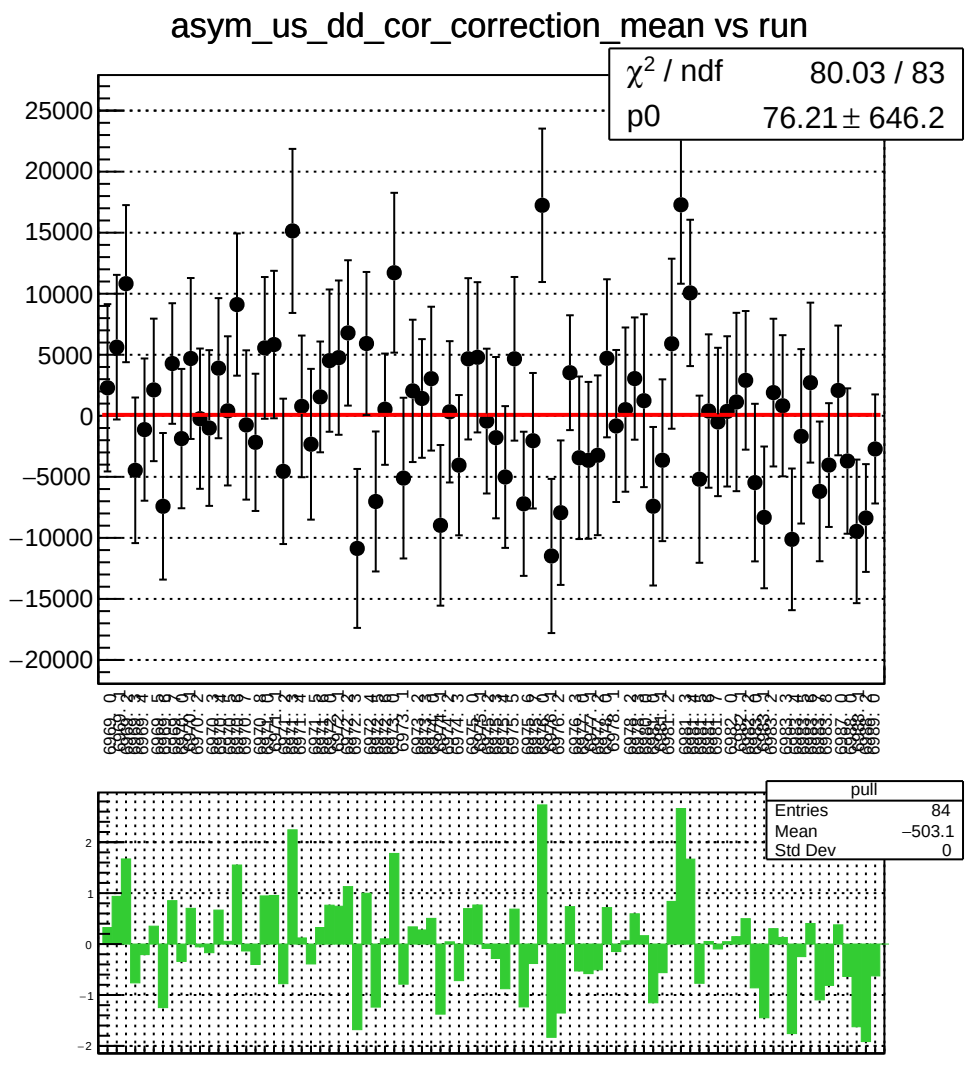

pull1D
Entries 84
Mean 0.01134
Std Dev 0.976

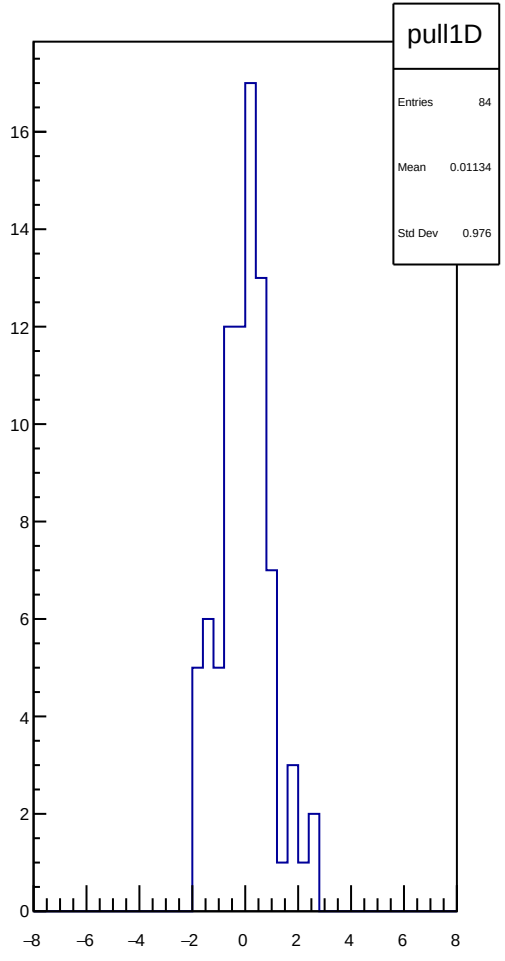

asym_us_dd_reg_correction_rms vs run
χ² / ndf 6570 / 83
p0 590 ± 0.4569
720
700
680
660
640
620
600
580
560
540
520

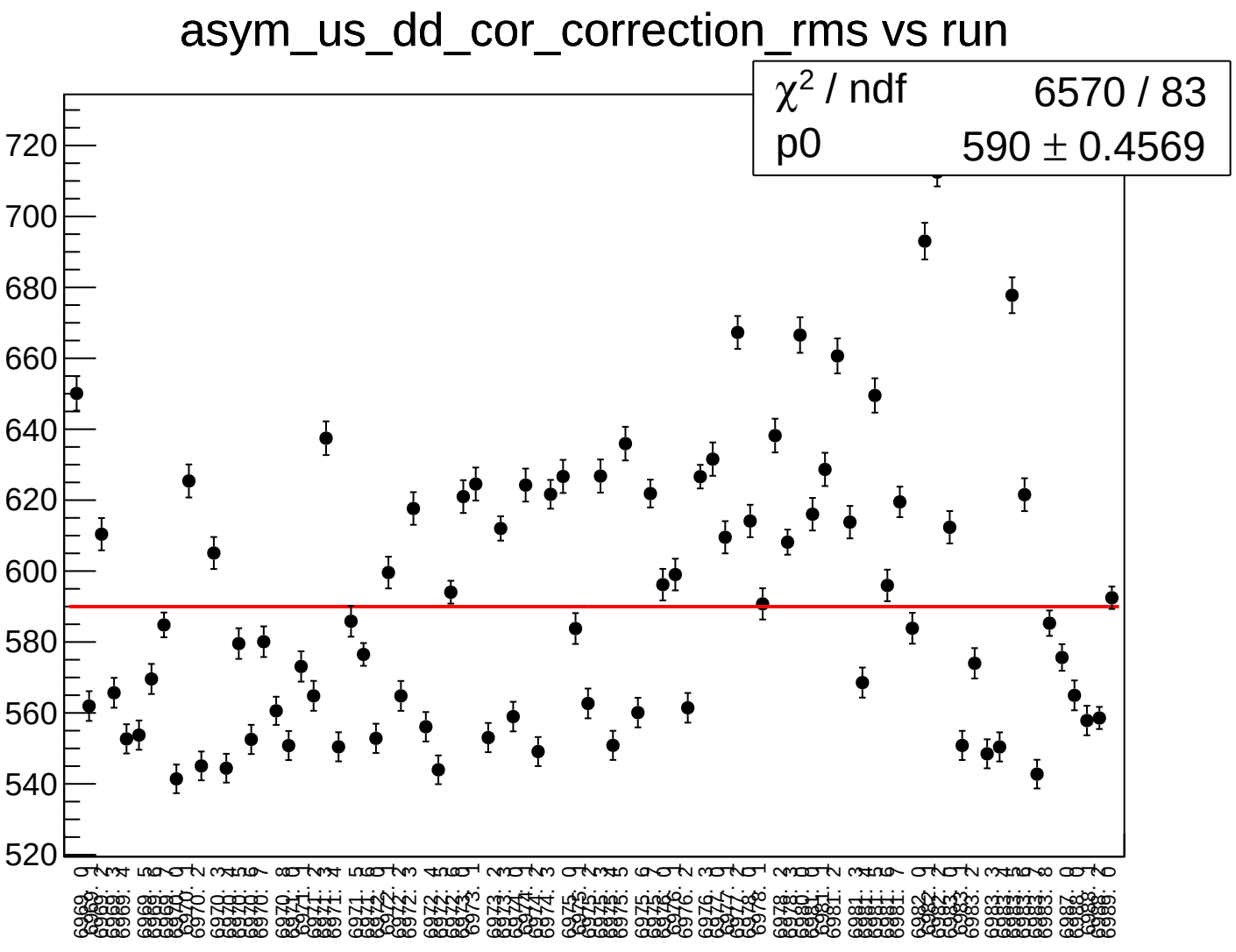

cor_asym_us_dd_mean vs run
χ² / ndf 104.6 / 83
p0 −746.1 ± 849.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −454.3
Std Dev 0
2
1
0
−1
−2
−3

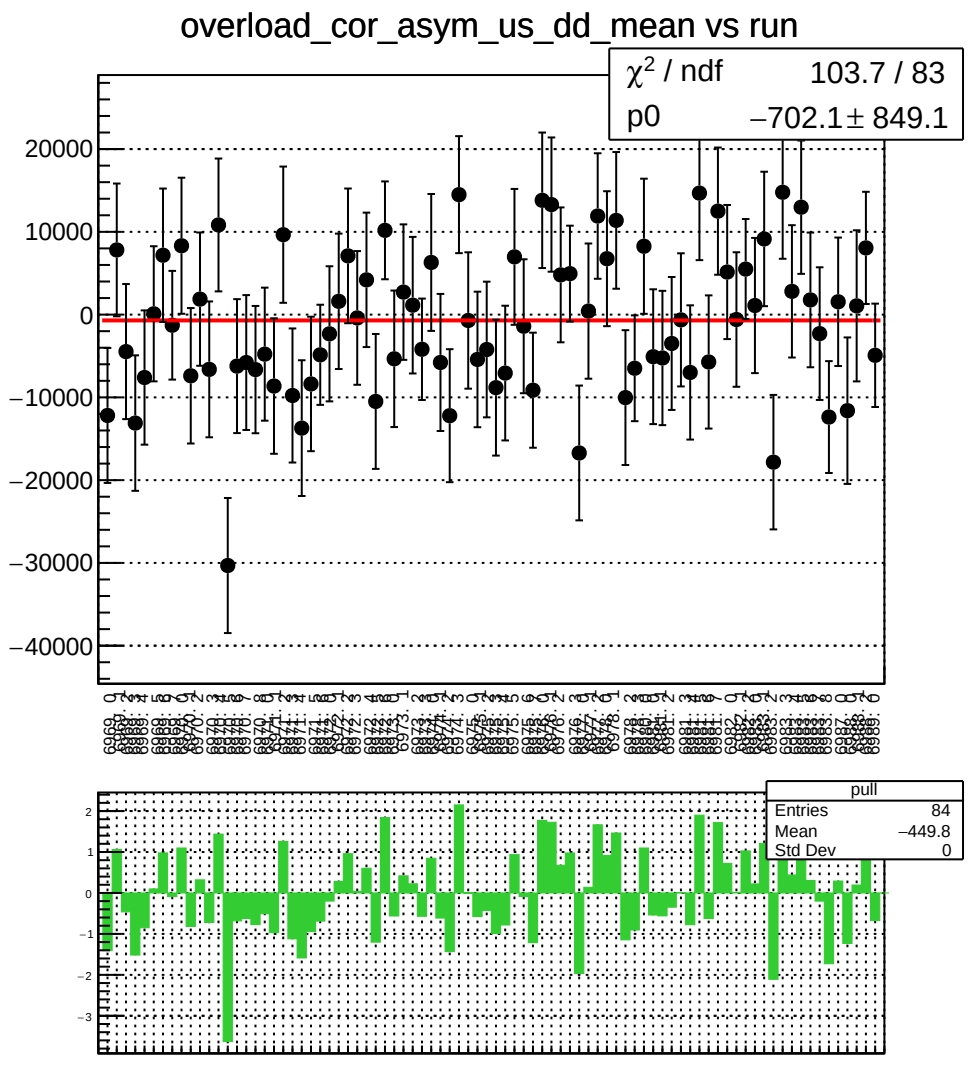

pull1D
Entries 84
Mean −0.01041
Std Dev 1.116
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

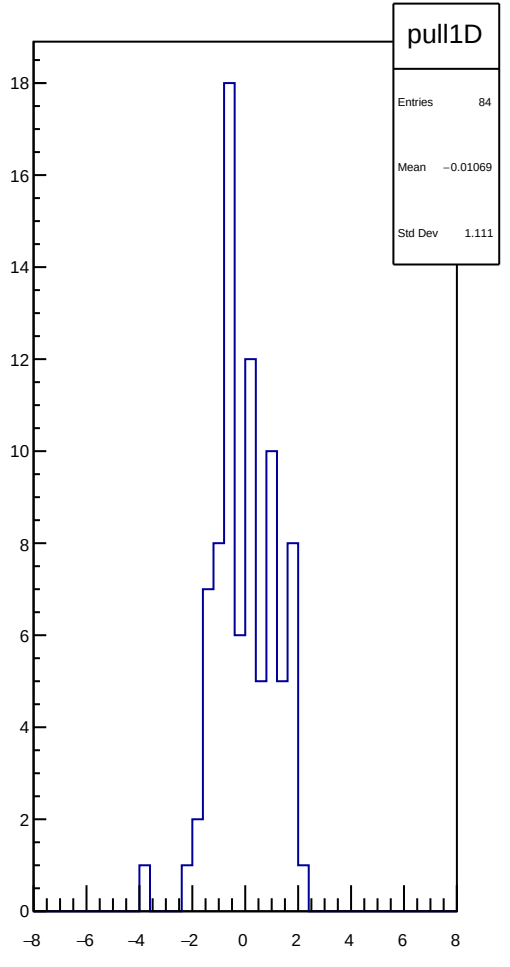

cor_asym_us_dd_rms vs run
χ² / ndf 1013 / 83
p0 777.2 ± 0.601
880
860
840
820
800
780
760

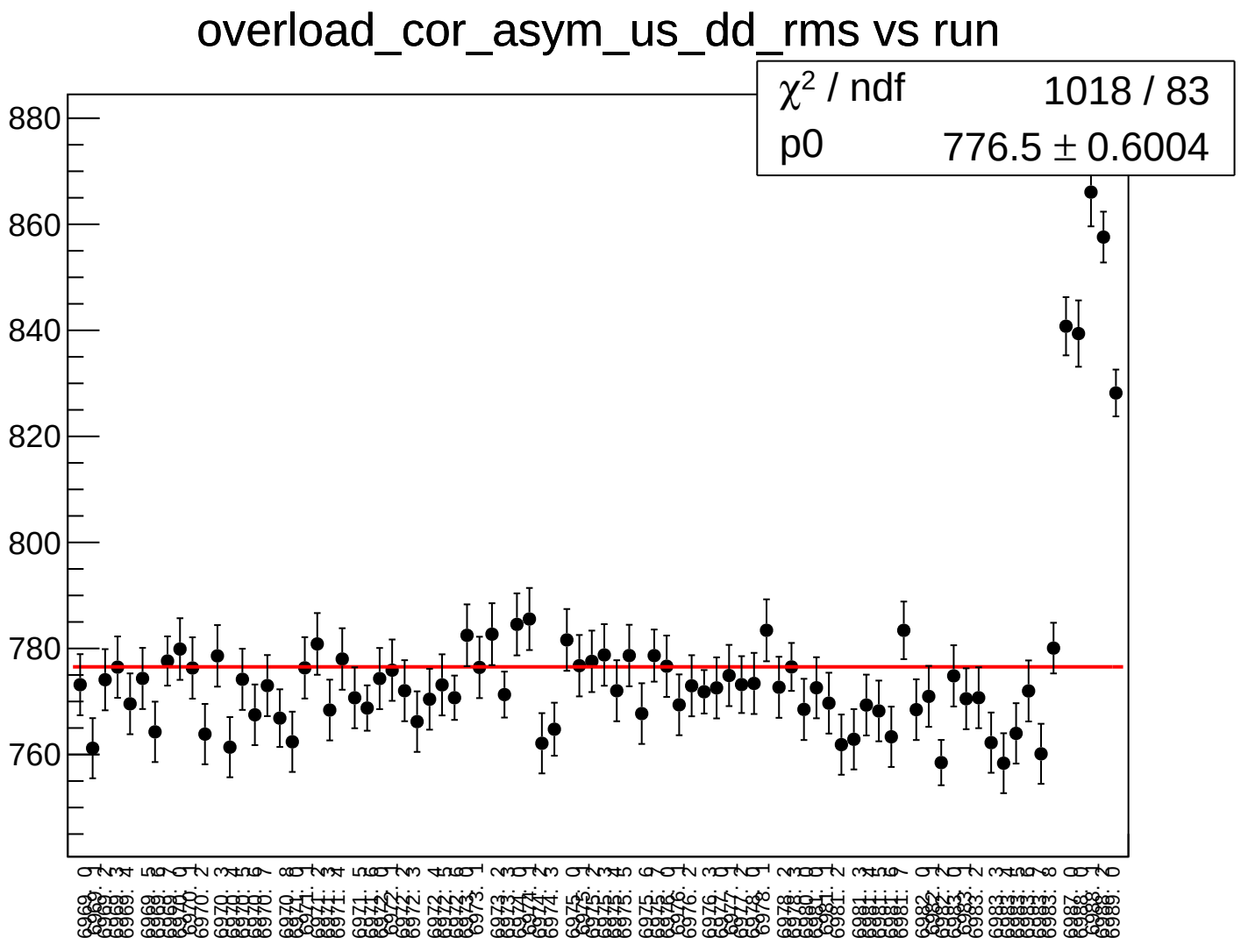

asym_us_dd_cor_correction_mean vs run
χ² / ndf 80.03 / 83
p0 76.21 ± 646.2
pull
Entries 84
Mean −503.1
Std Dev 0


pull1D
Entries 84
Mean 0.01134
Std Dev 0.976

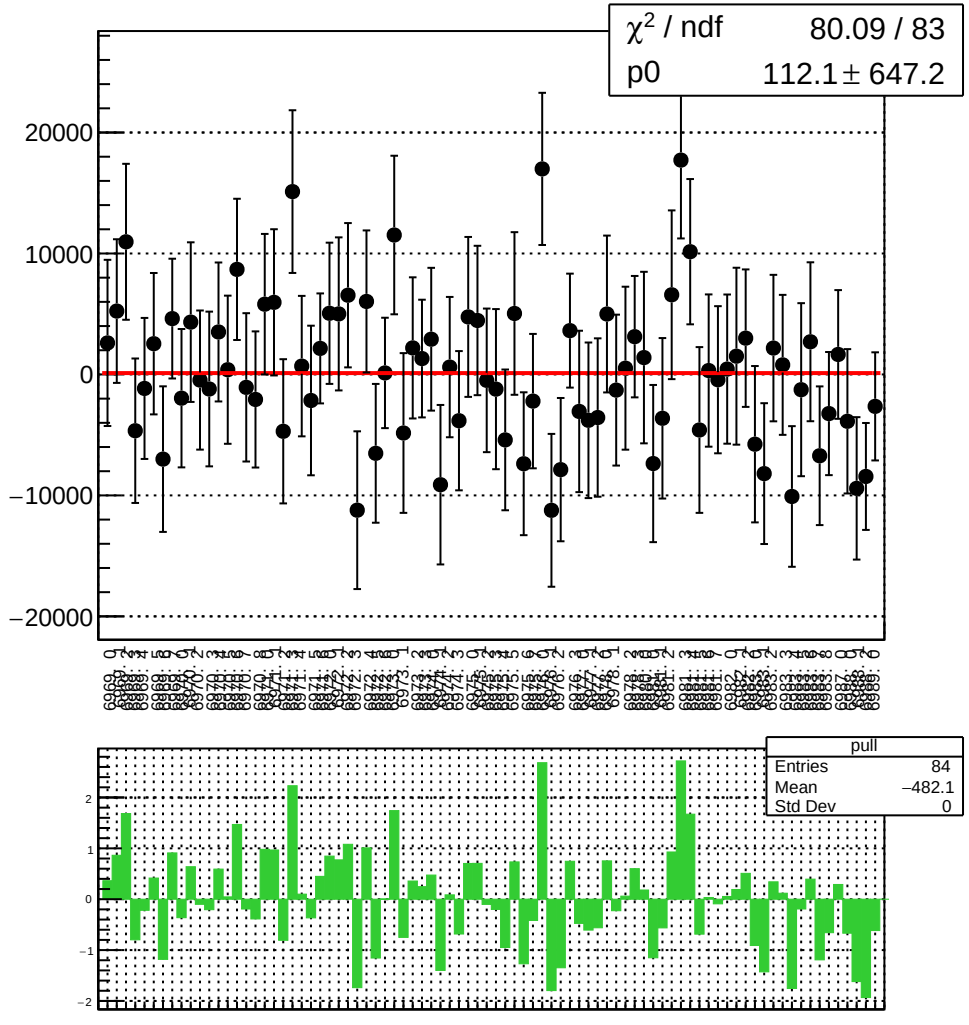

asym_us_dd_cor_correction_rms vs run
χ² / ndf 6570 / 83
p0 590 ± 0.4569
720
700
680
660
640
620
600
580
560
540
520

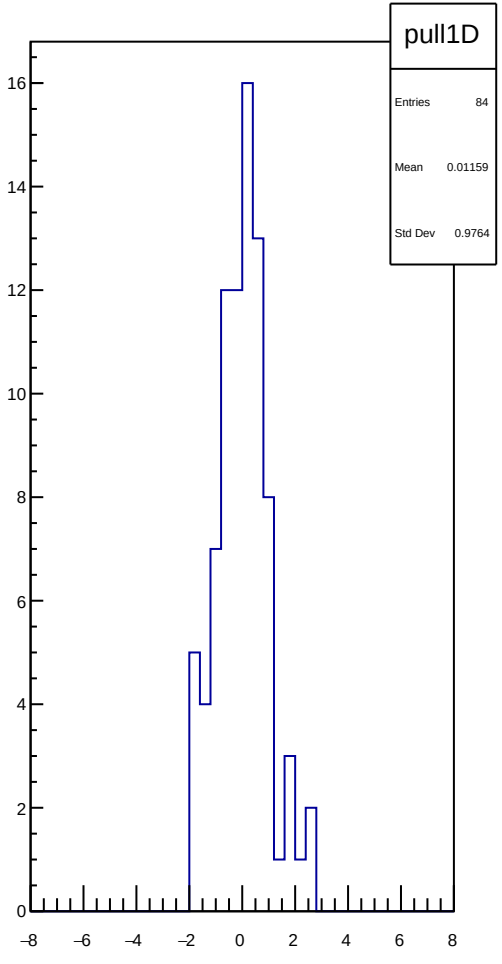

overload_cor_asym_us_dd_mean vs run
χ² / ndf 103.7 / 83
p0 −702.1 ± 849.1
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −449.8
Std Dev 0
2
1
0
−1
−2
−3

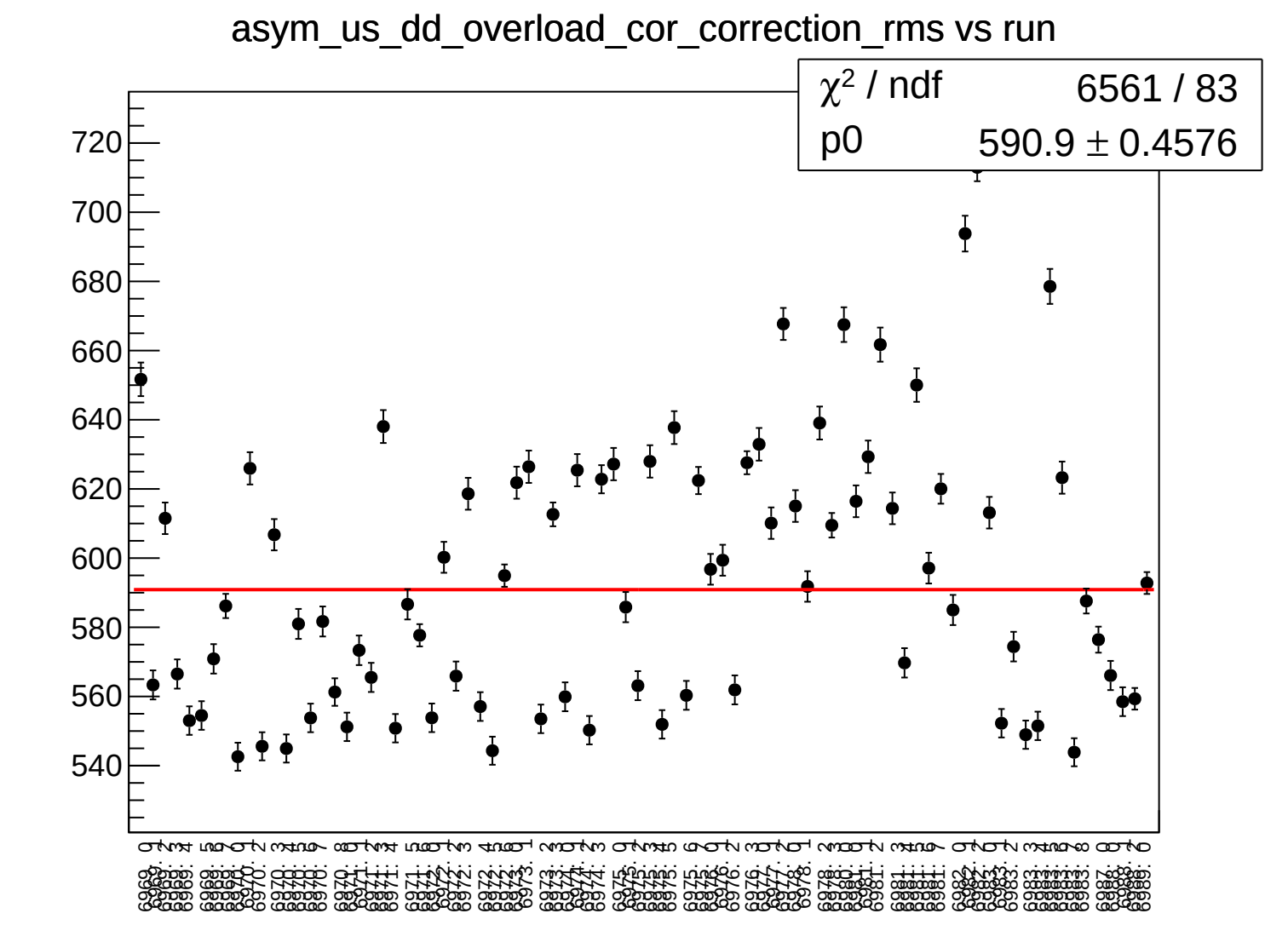

pull1D
Entries 84
Mean −0.01069
Std Dev 1.111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

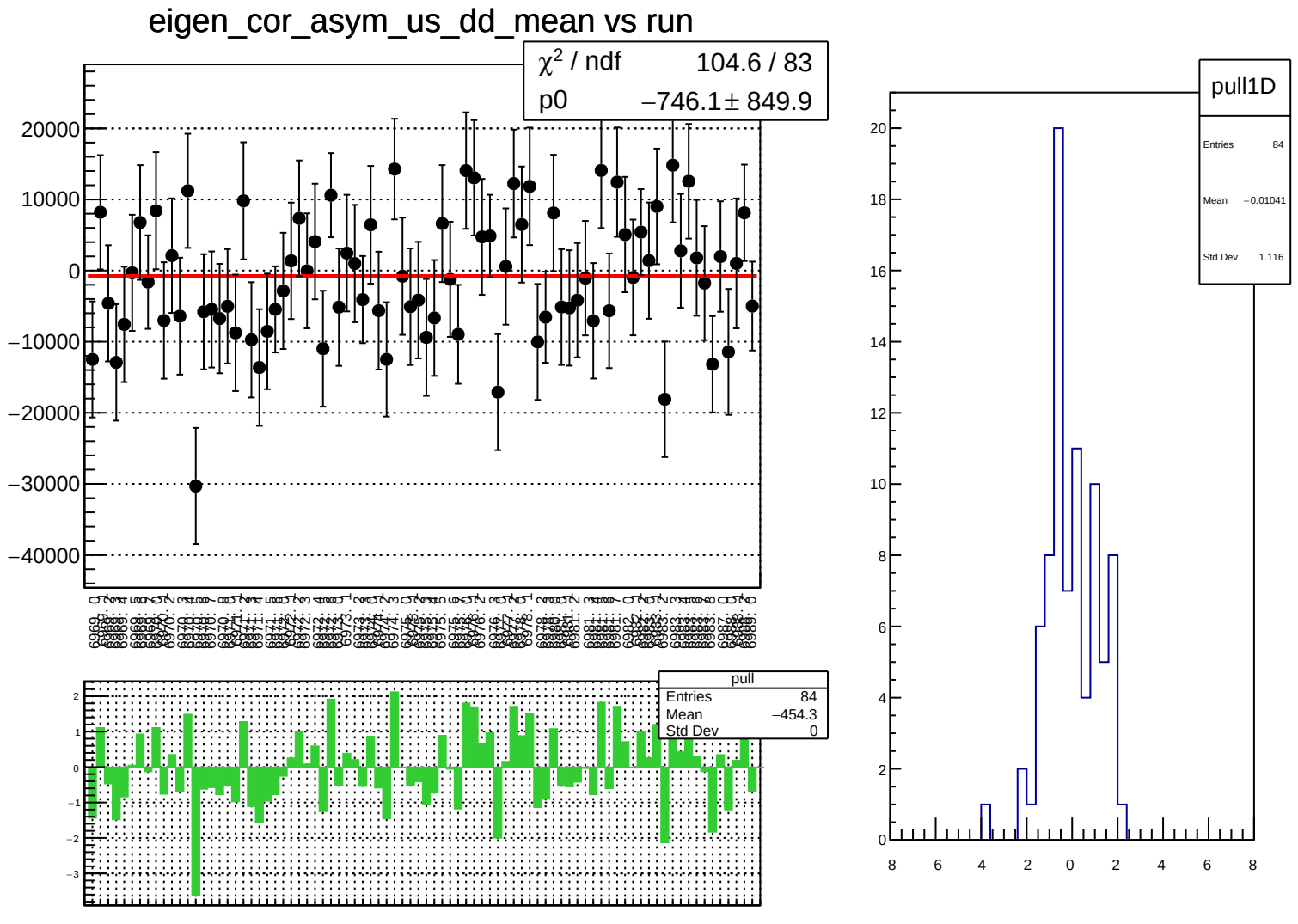

overload_cor_asym_us_dd_rms vs run
χ² / ndf 1018 / 83
p0 776.5 ± 0.6004
880
860
840
820
800
780
760

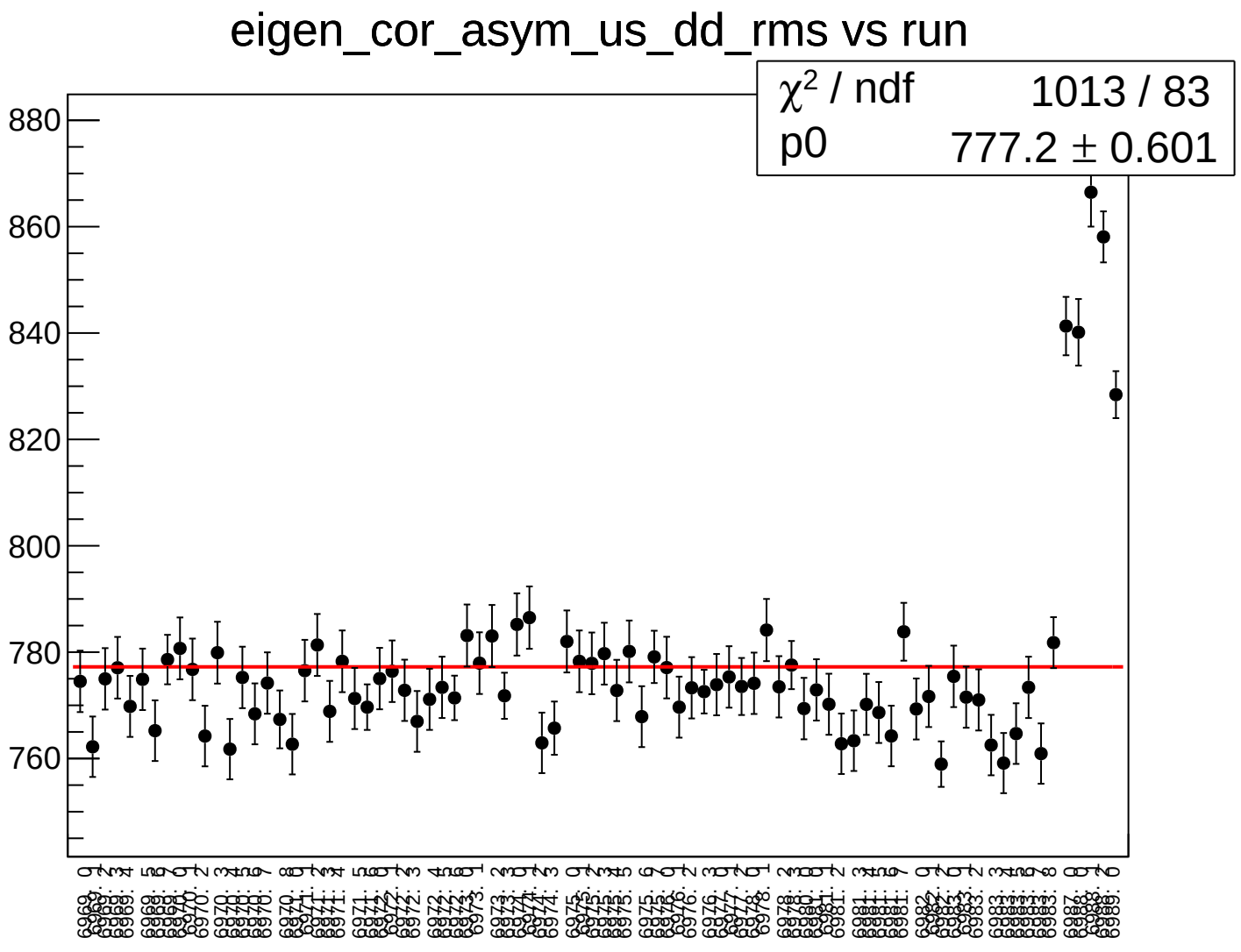
asym_us_dd_overload_cor_correction_mean vs run

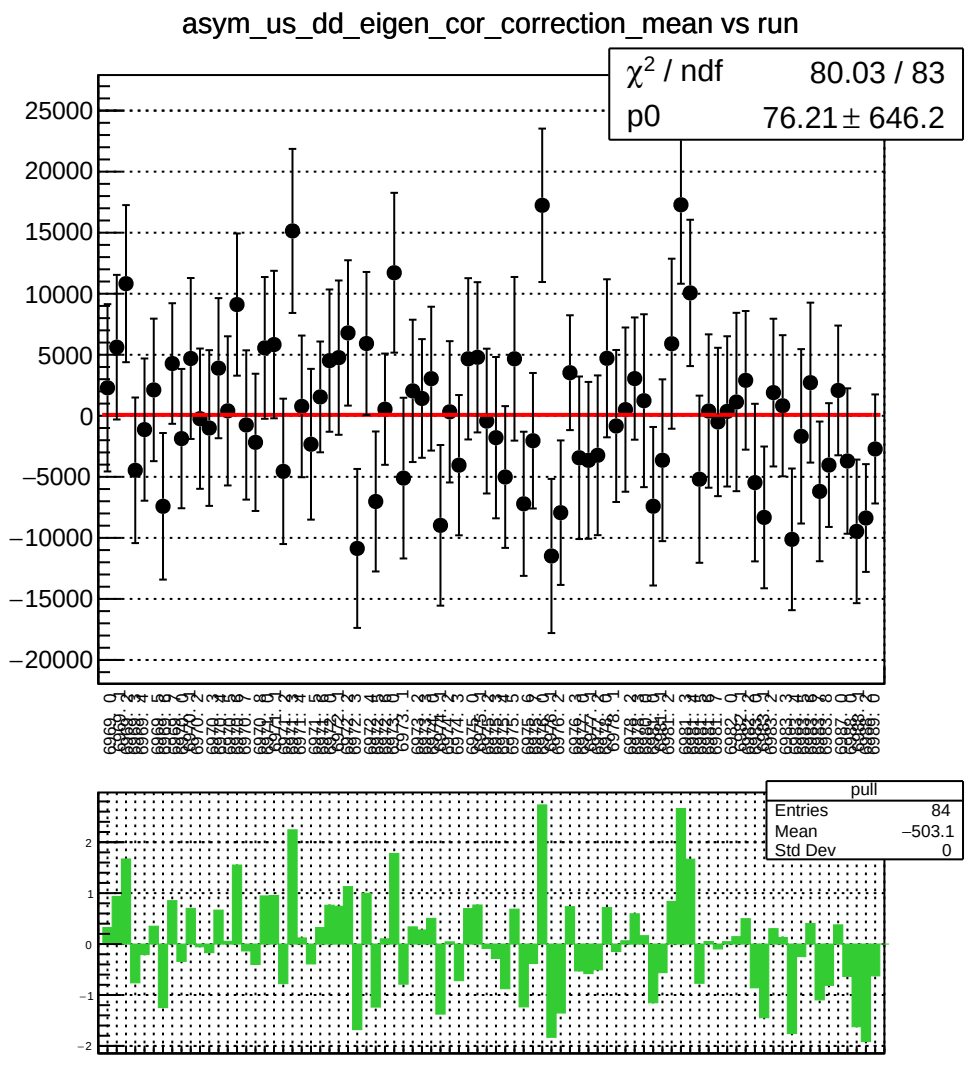


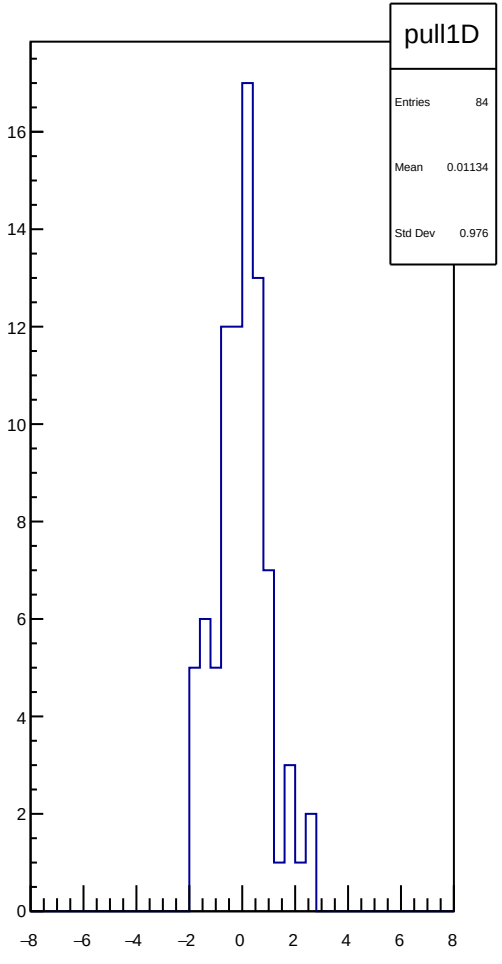


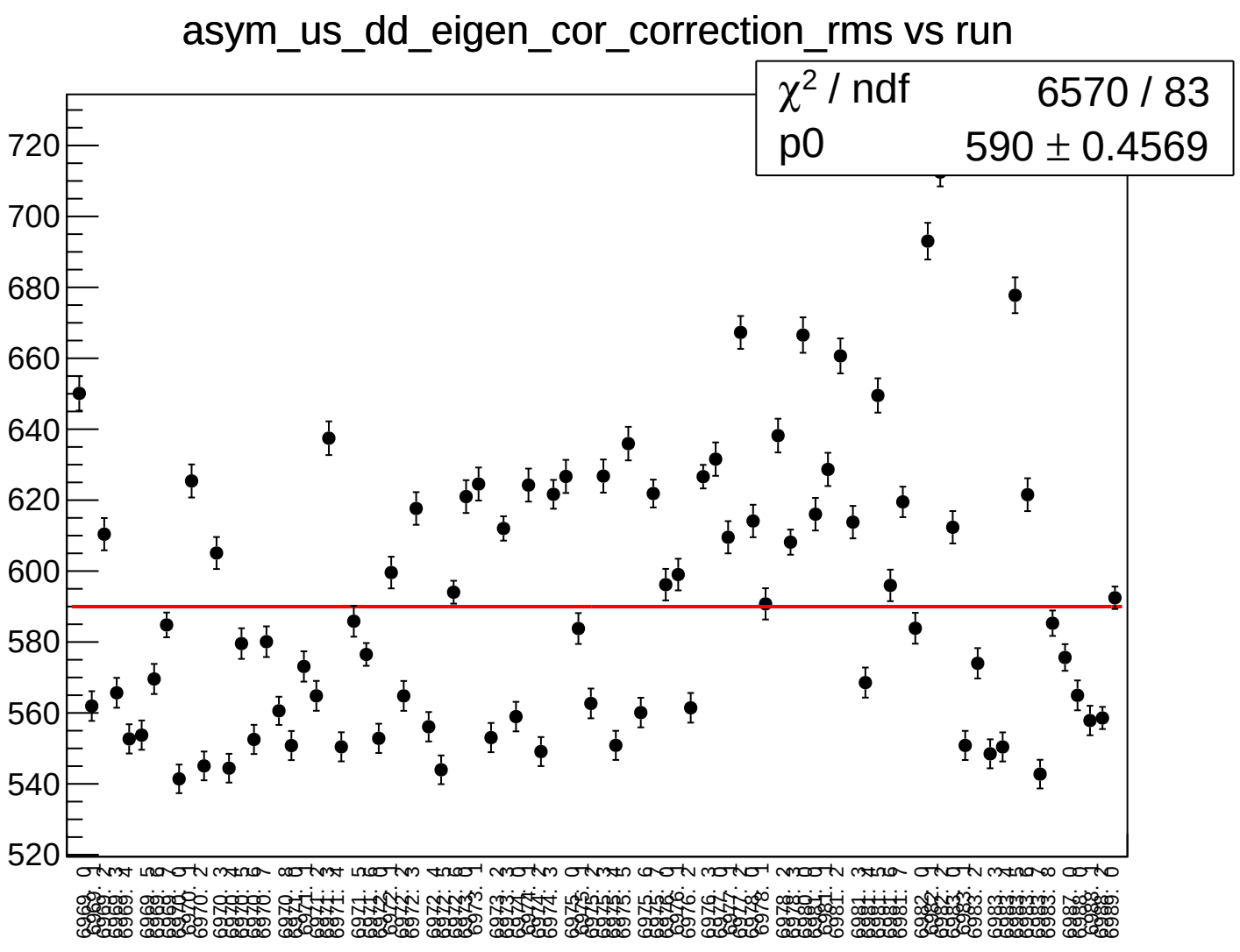

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 6561 / 83
p0 590.9 ± 0.4576
720
700
680
660
640
620
600
580
560
540

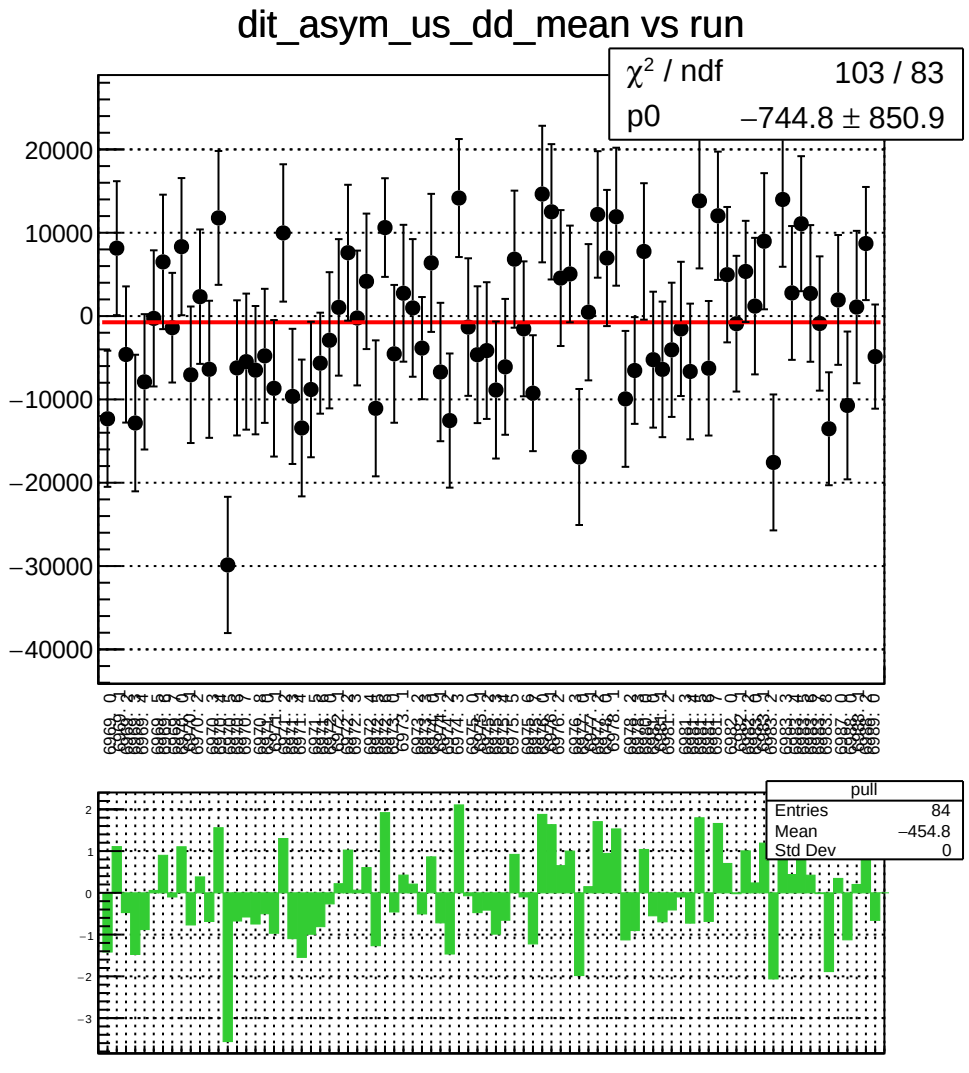

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 104.6 / 83
p0 −746.1 ± 849.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −454.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.01041
Std Dev 1.116
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

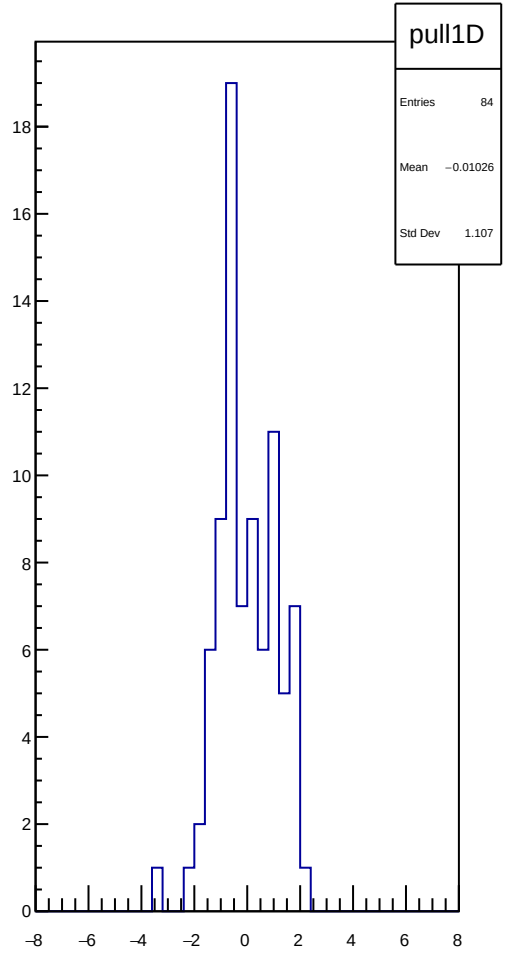

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 1013 / 83
p0 777.2 ± 0.601
880
860
840
820
800
780
760

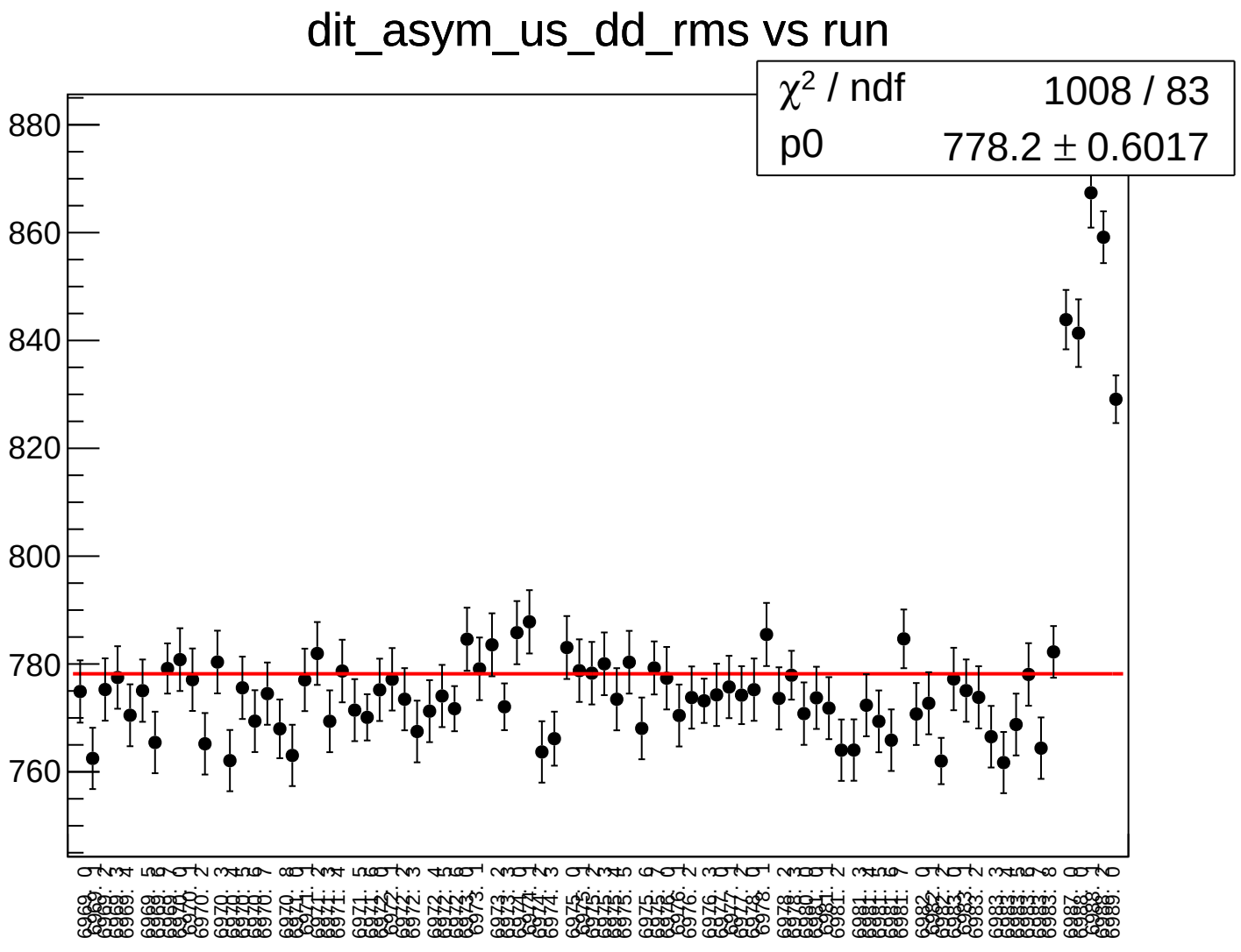

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.03 / 83
p0 76.21 ± 646.2
pull
Entries 84
Mean −503.1
Std Dev 0

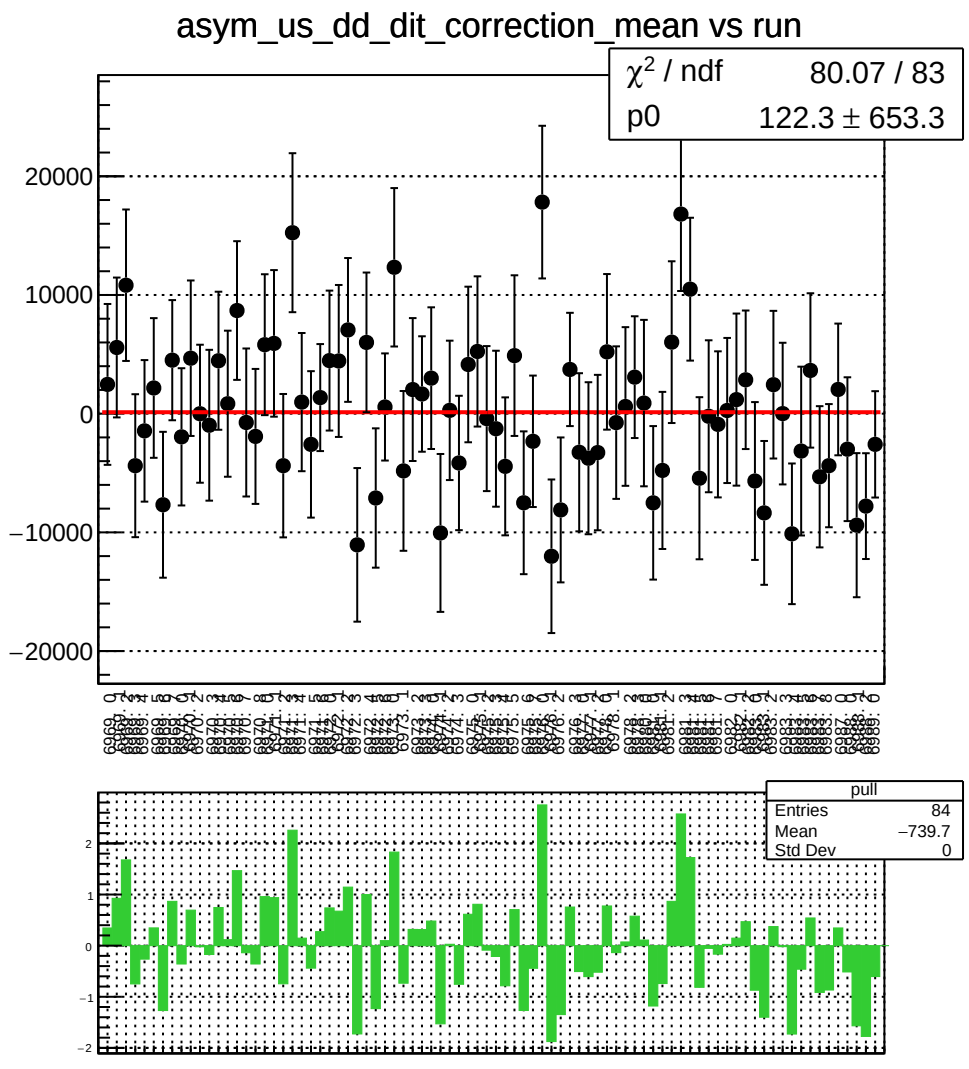

pull1D
Entries 84
Mean 0.01134
Std Dev 0.976

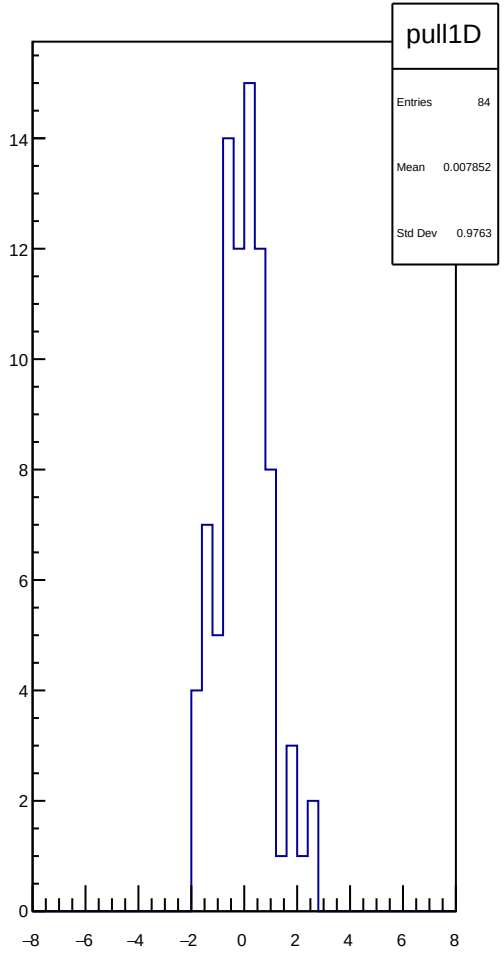

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 6570 / 83
p0 590 ± 0.4569
720
700
680
660
640
620
600
580
560
540
520

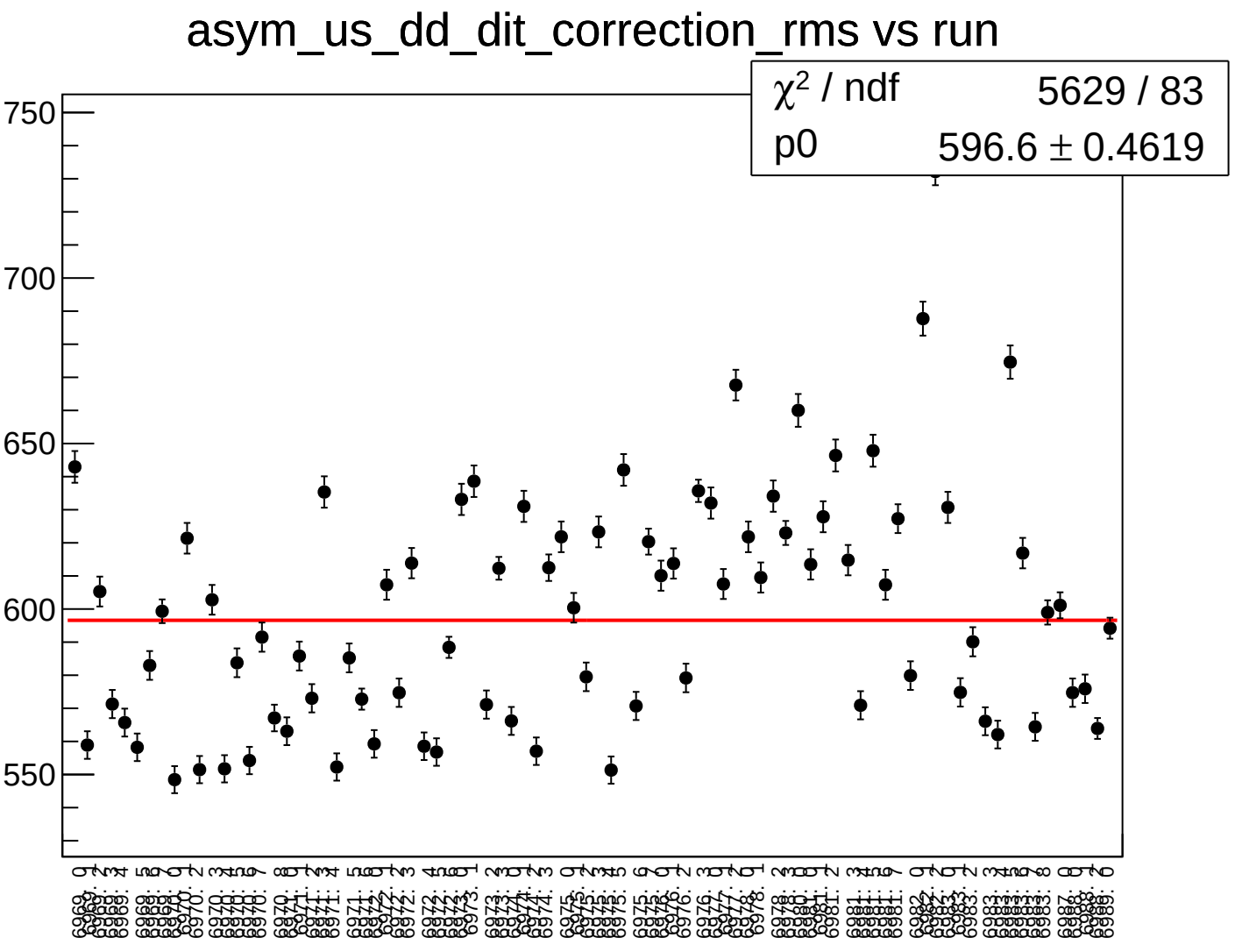

dit_asym_us_dd_mean vs run
χ² / ndf 103 / 83
p0 −744.8 ± 850.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −454.8
Std Dev 0
2
1
0
−1
−2
−3

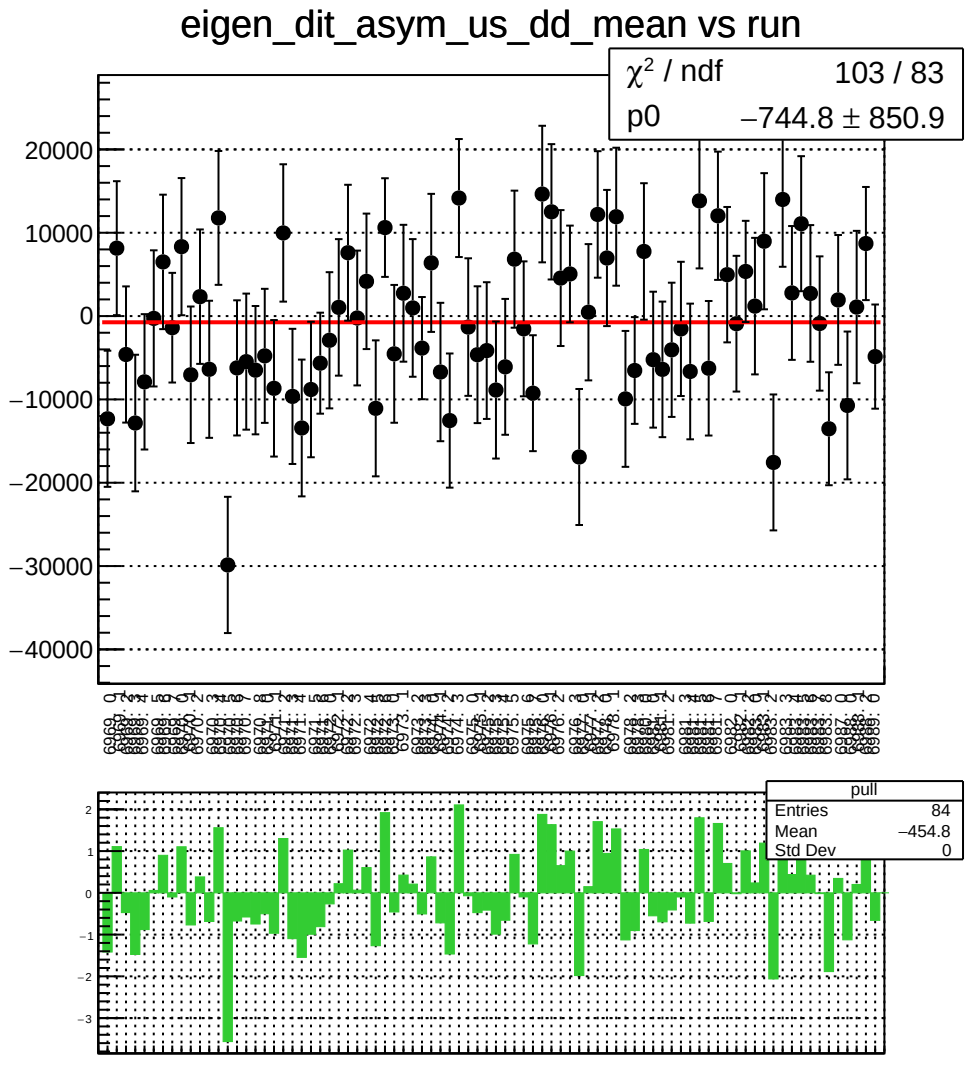

pull1D
Entries 84
Mean −0.01026
Std Dev 1.107
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

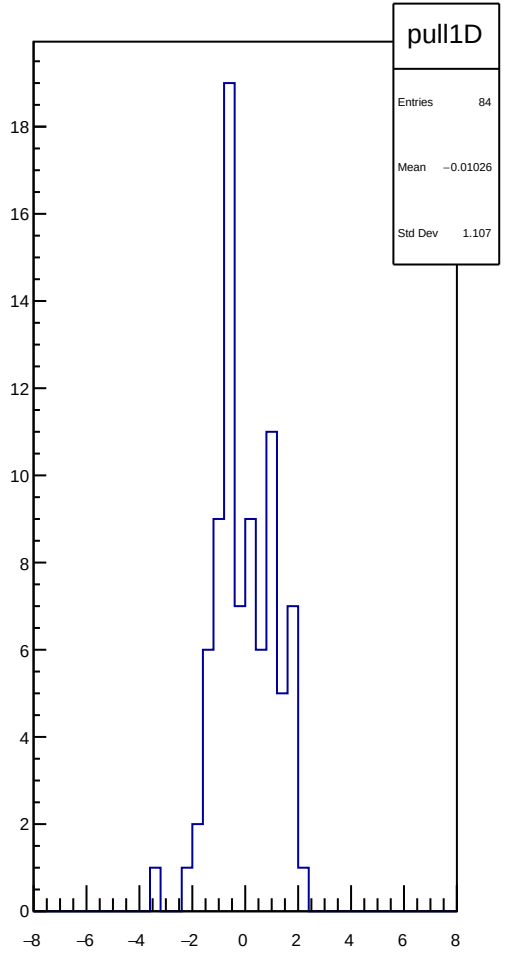

dit_asym_us_dd_rms vs run
χ² / ndf 1008 / 83
p0 778.2 ± 0.6017
880
860
840
820
800
780
760

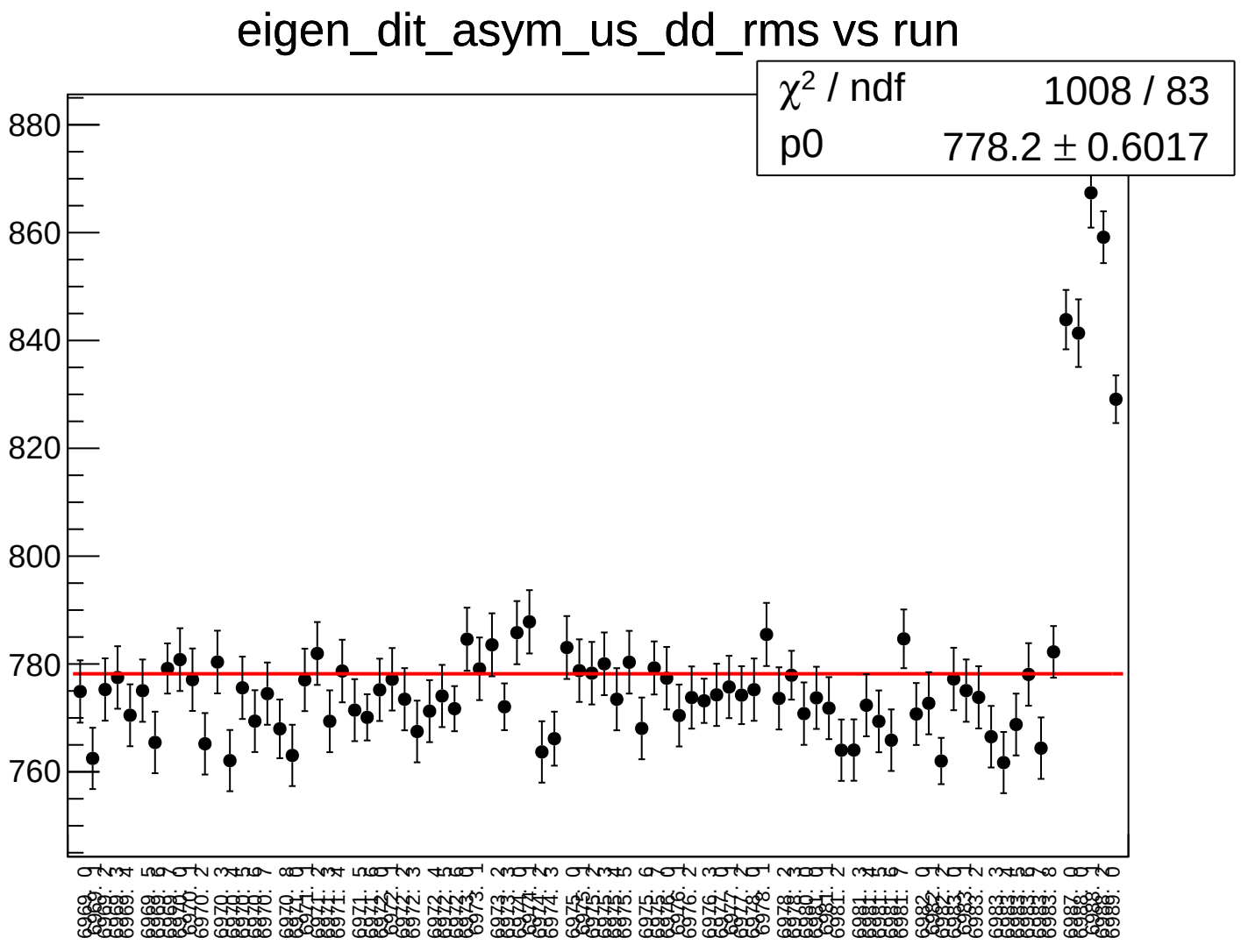

asym_us_dd_dit_correction_mean vs run
χ² / ndf 80.07 / 83
p0 122.3 ± 653.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −739.7
Std Dev 0
2
1
0
−1
−2

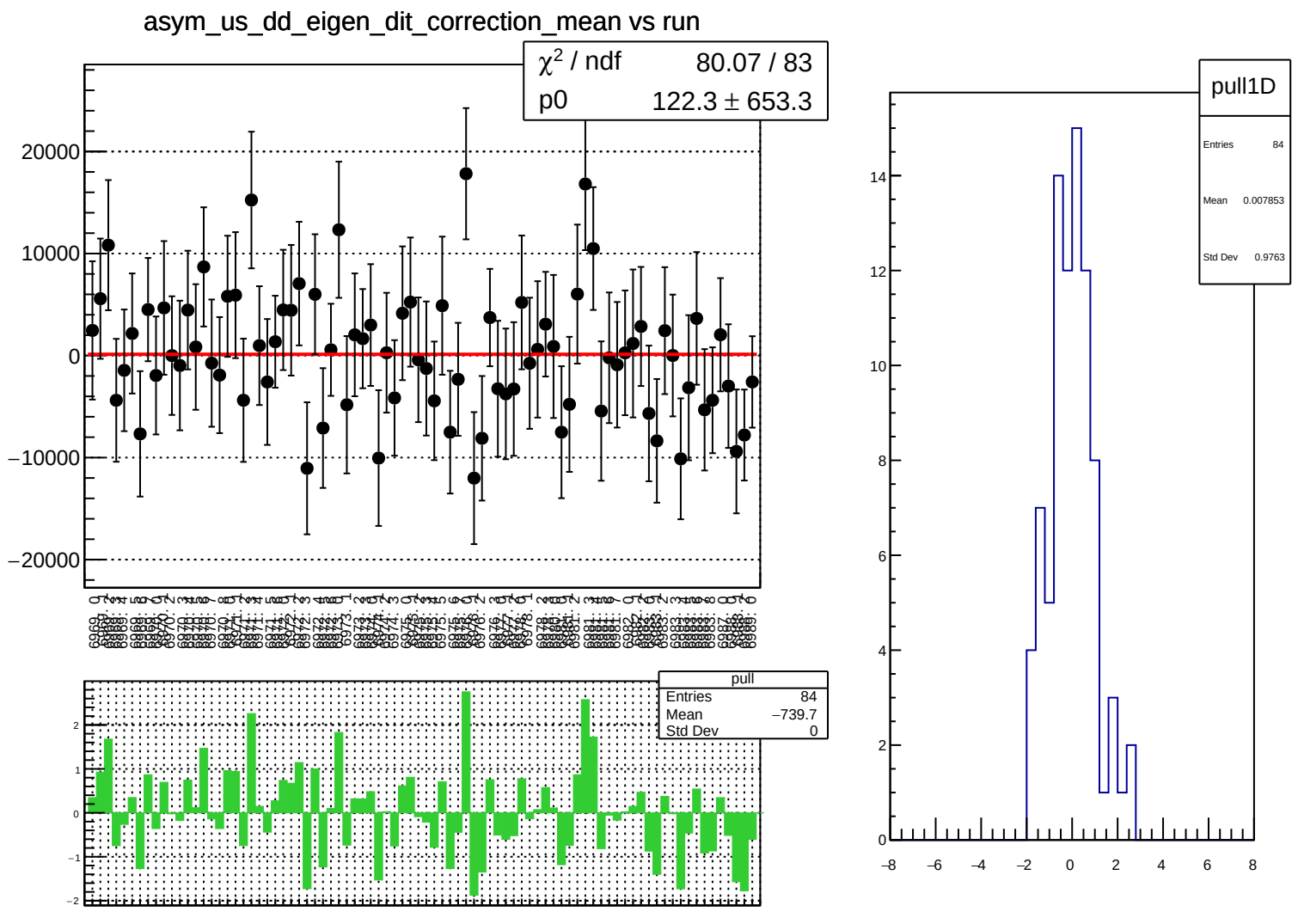

pull1D
Entries 84
Mean 0.007852
Std Dev 0.9763
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

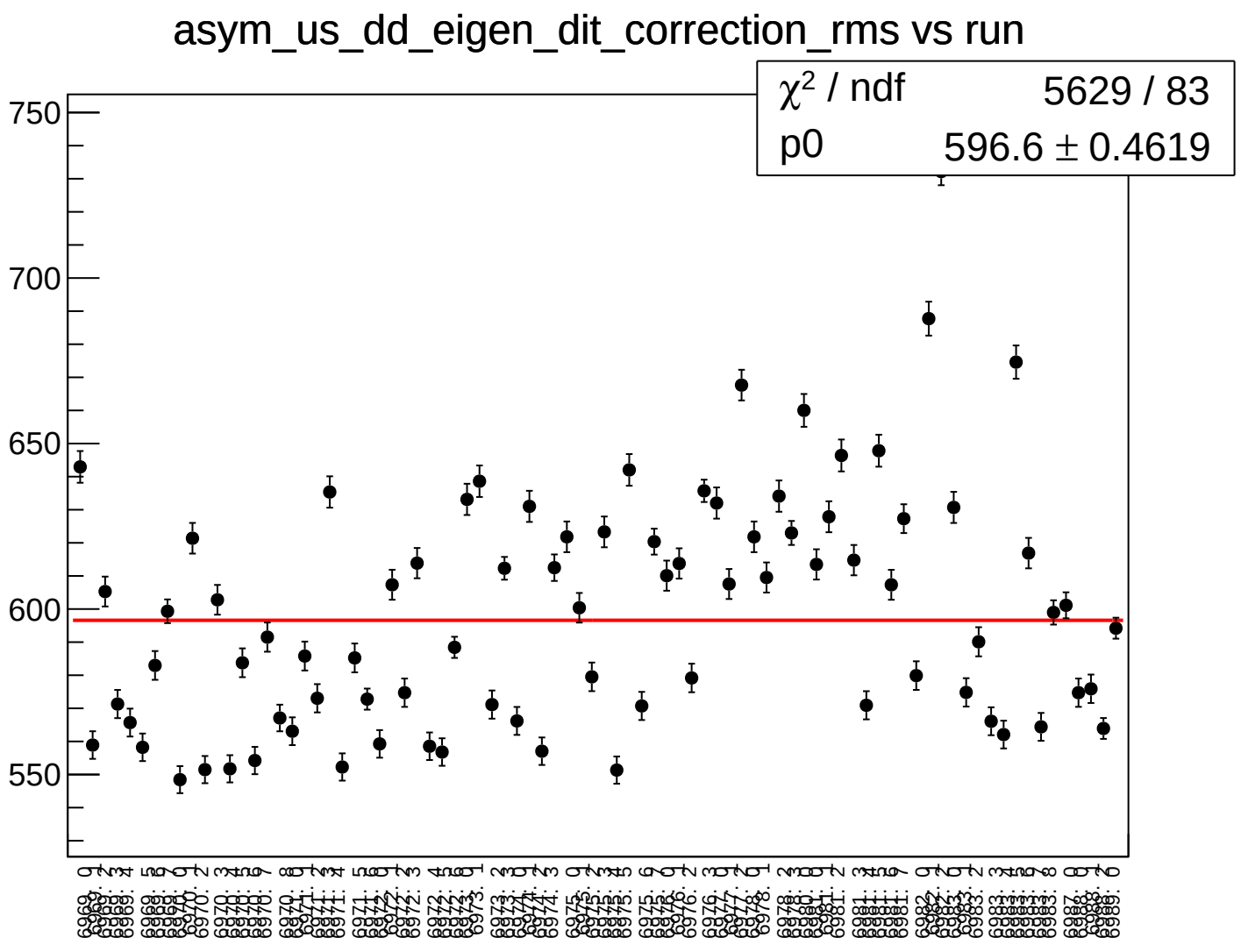

asym_us_dd_dit_correction_rms vs run
χ² / ndf 5629 / 83
p0 596.6 ± 0.4619
750
700
650
600
550

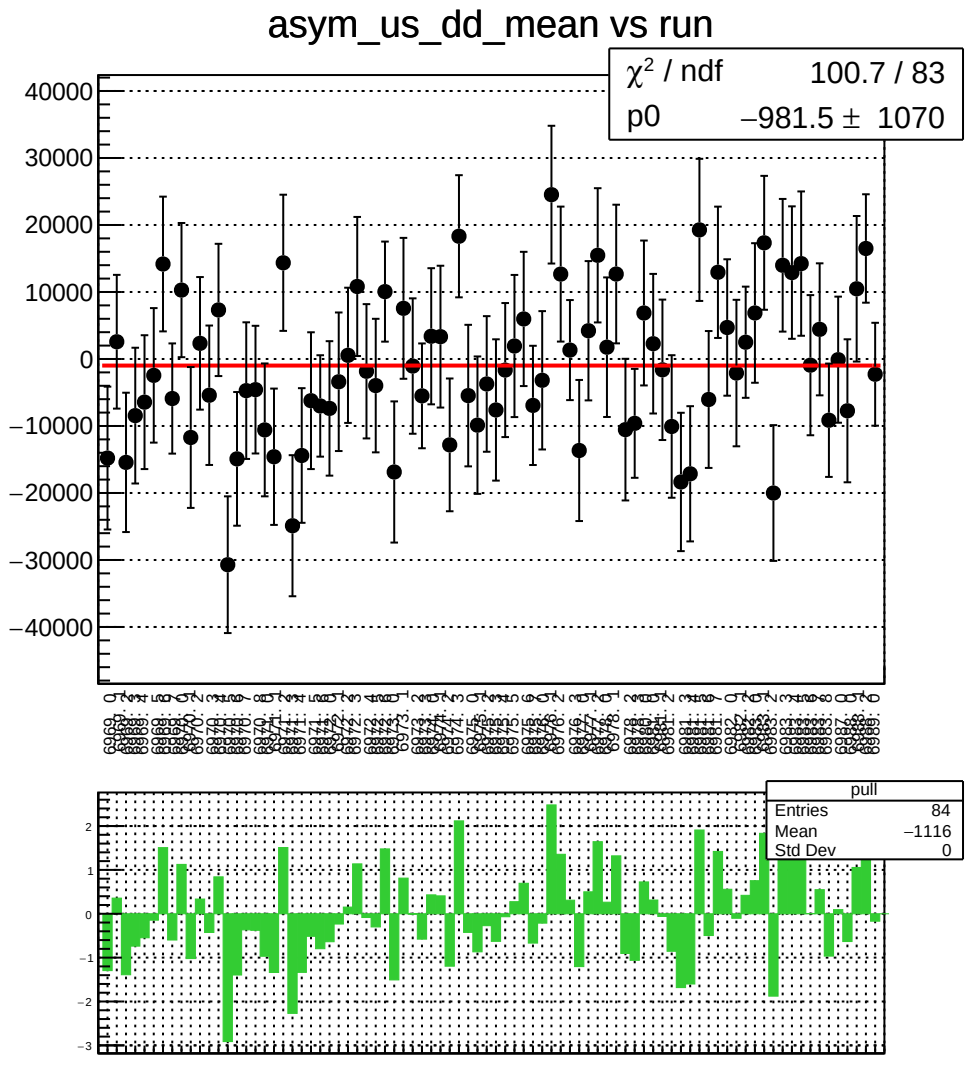

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 103 / 83
p0 −744.8 ± 850.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −454.8
Std Dev 0
2
1
0
−1
−2
−3

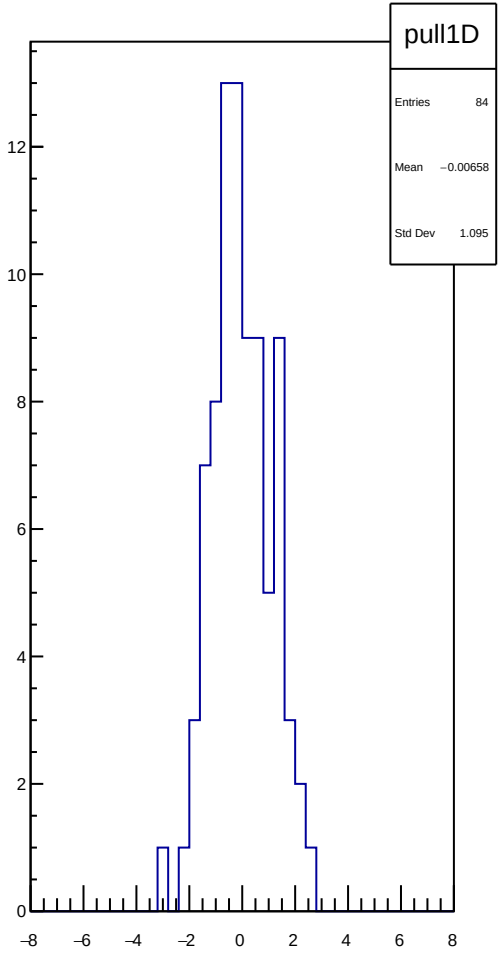

pull1D
Entries 84
Mean −0.01026
Std Dev 1.107
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

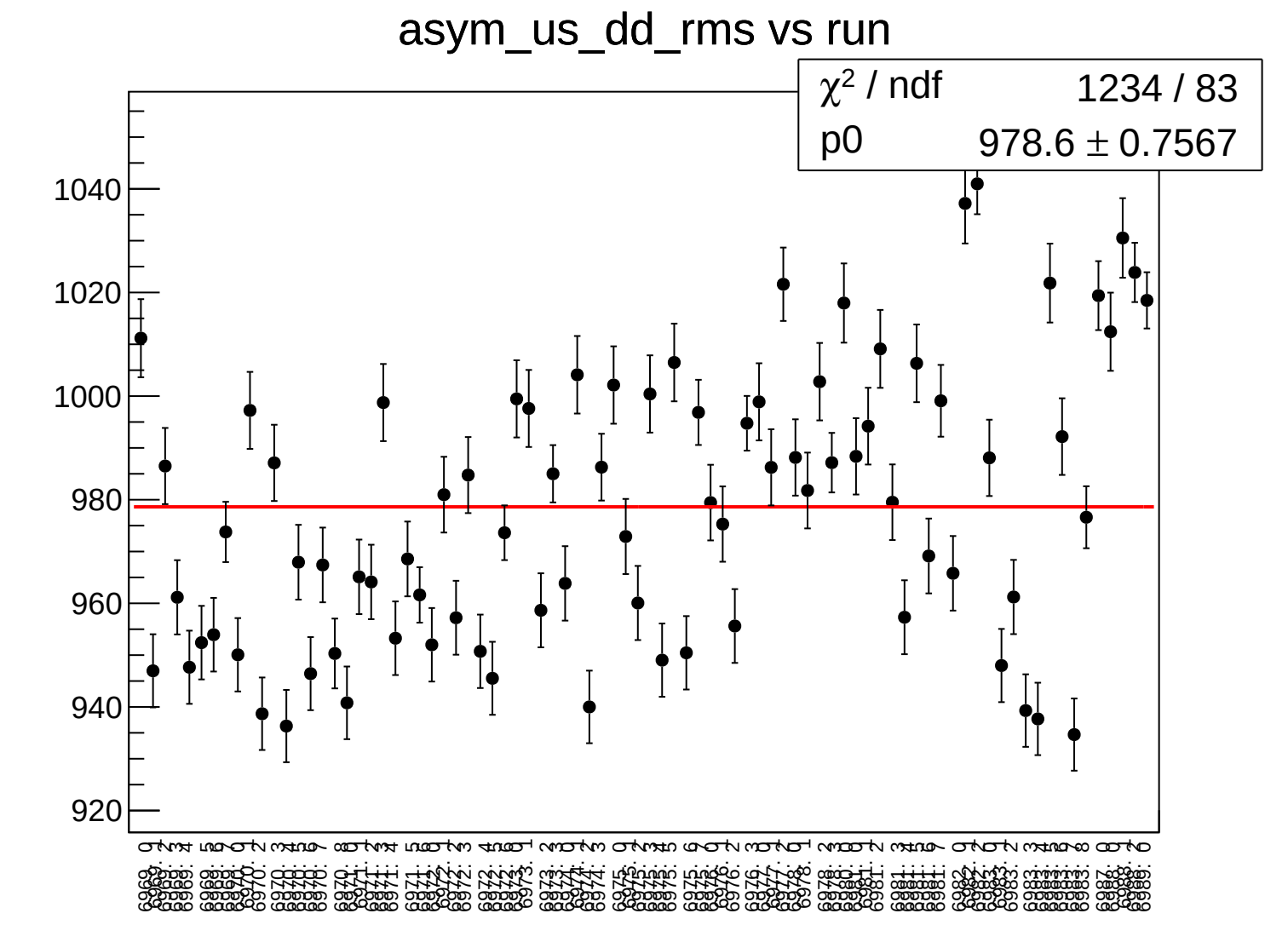

eigen_dit_asym_us_dd_rms vs run
χ^2 / ndf 1008 / 83
p0 778.2 ± 0.6017
880
860
840
820
800
780
760

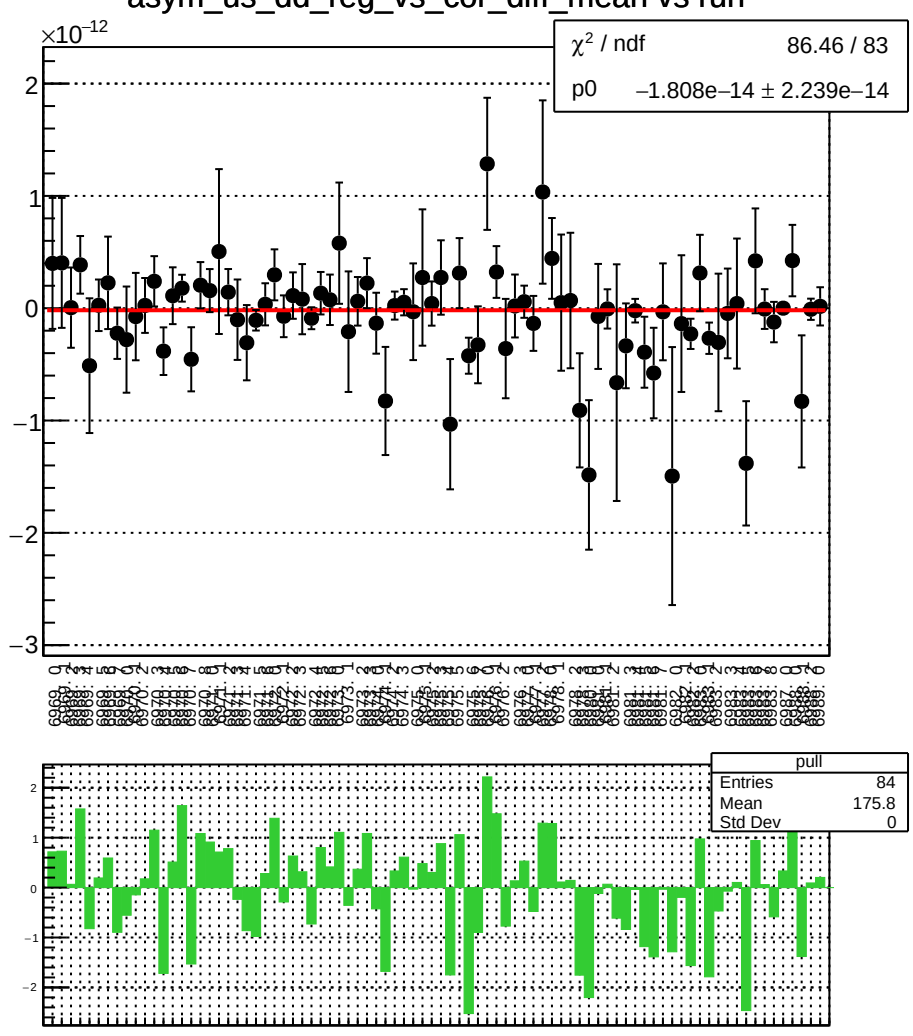

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.07 / 83
p0 122.3 ± 653.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −739.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.007853
Std Dev 0.9763
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

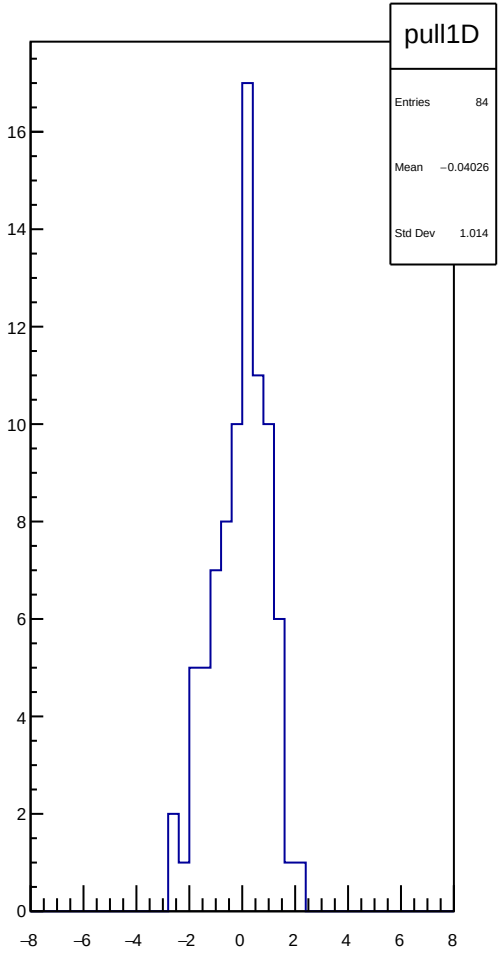

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 5629 / 83
p0 596.6 ± 0.4619
750
700
650
600
550

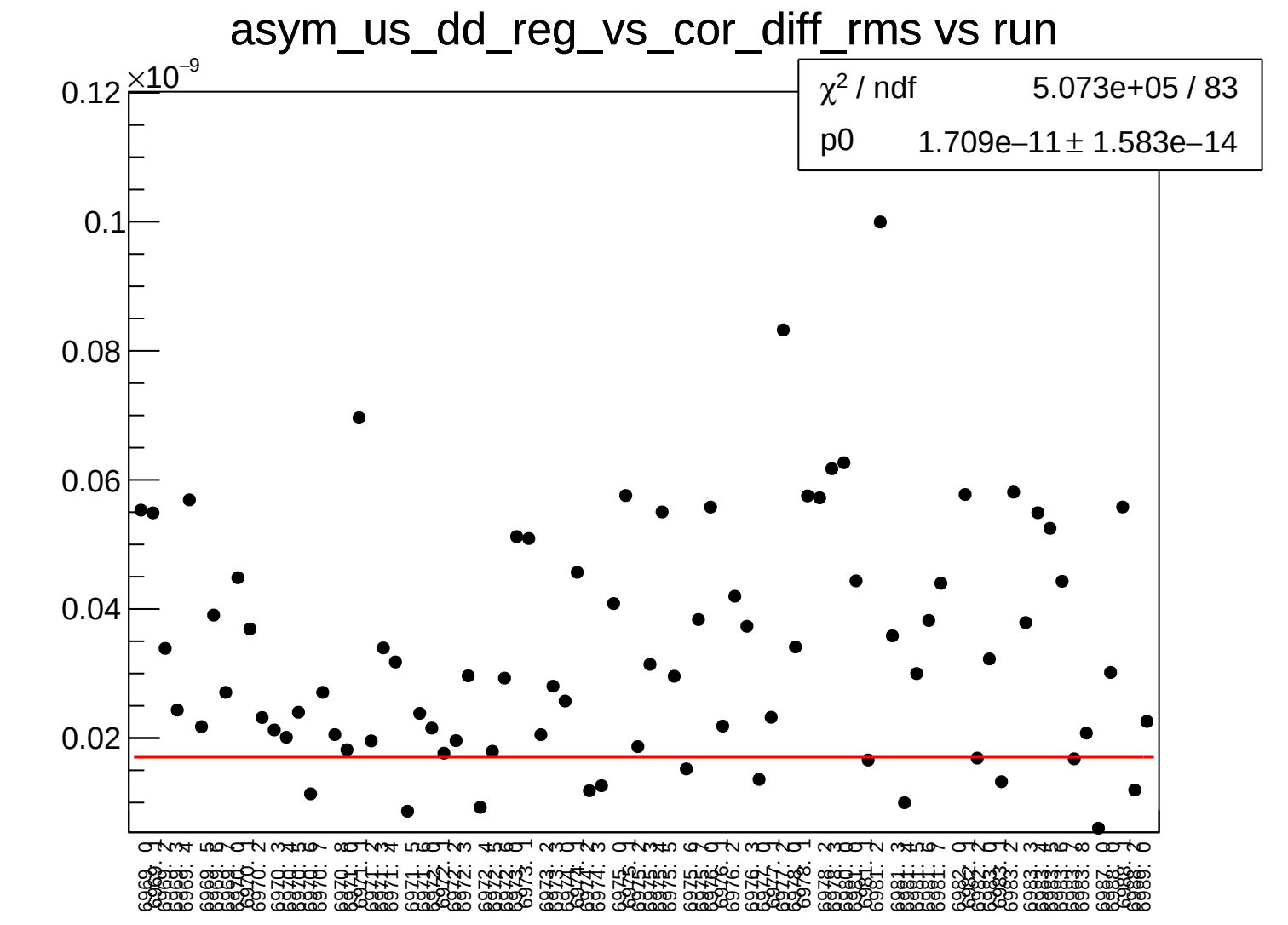

asym_us_dd_mean vs run
χ² / ndf 100.7 / 83
p0 −981.5 ± 1070
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −1116
Std Dev 0
2
1
0
−1
−2
−3

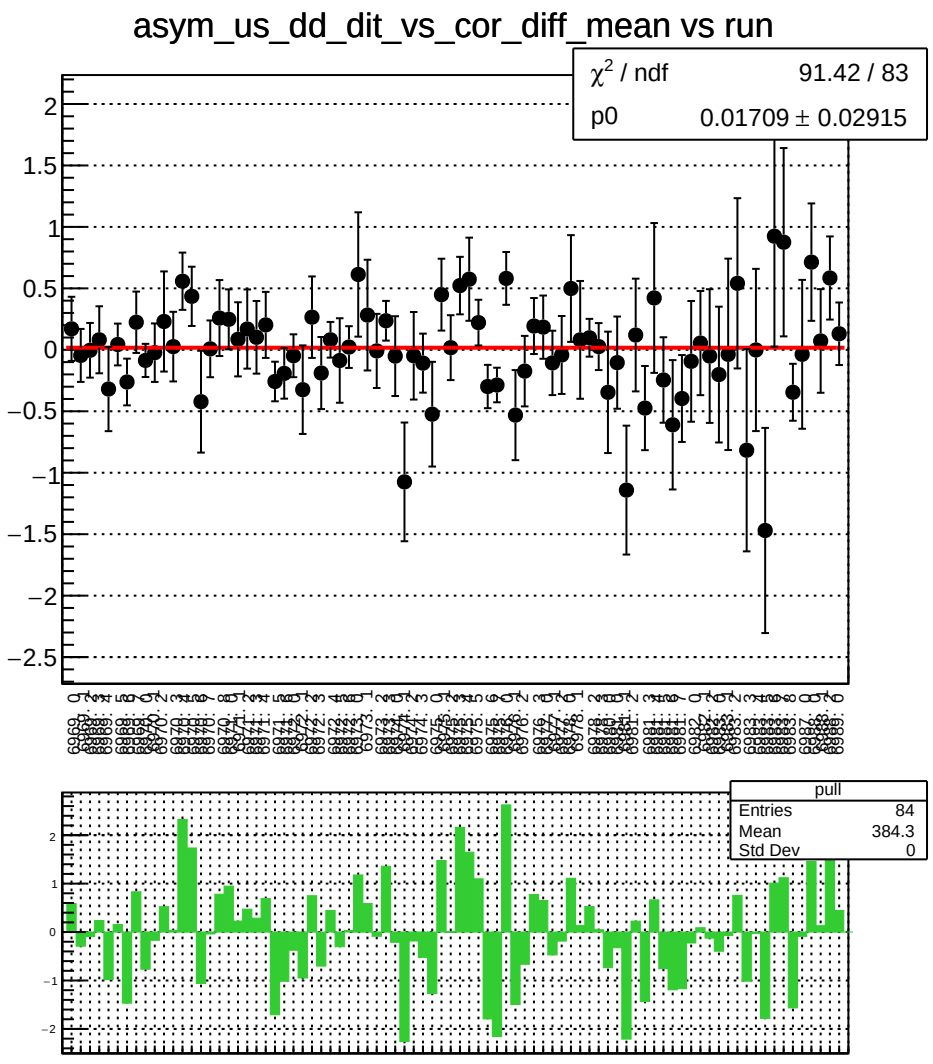

pull1D
Entries 84
Mean −0.00658
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

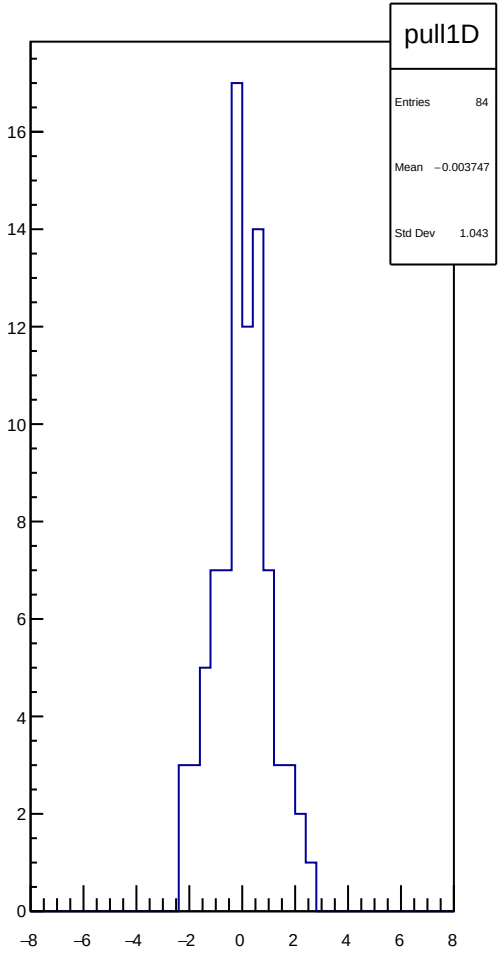

asym_us_dd_rms vs run
χ² / ndf 1234 / 83
p0 978.6 ± 0.7567
1040
1020
1000
980
960
940
920

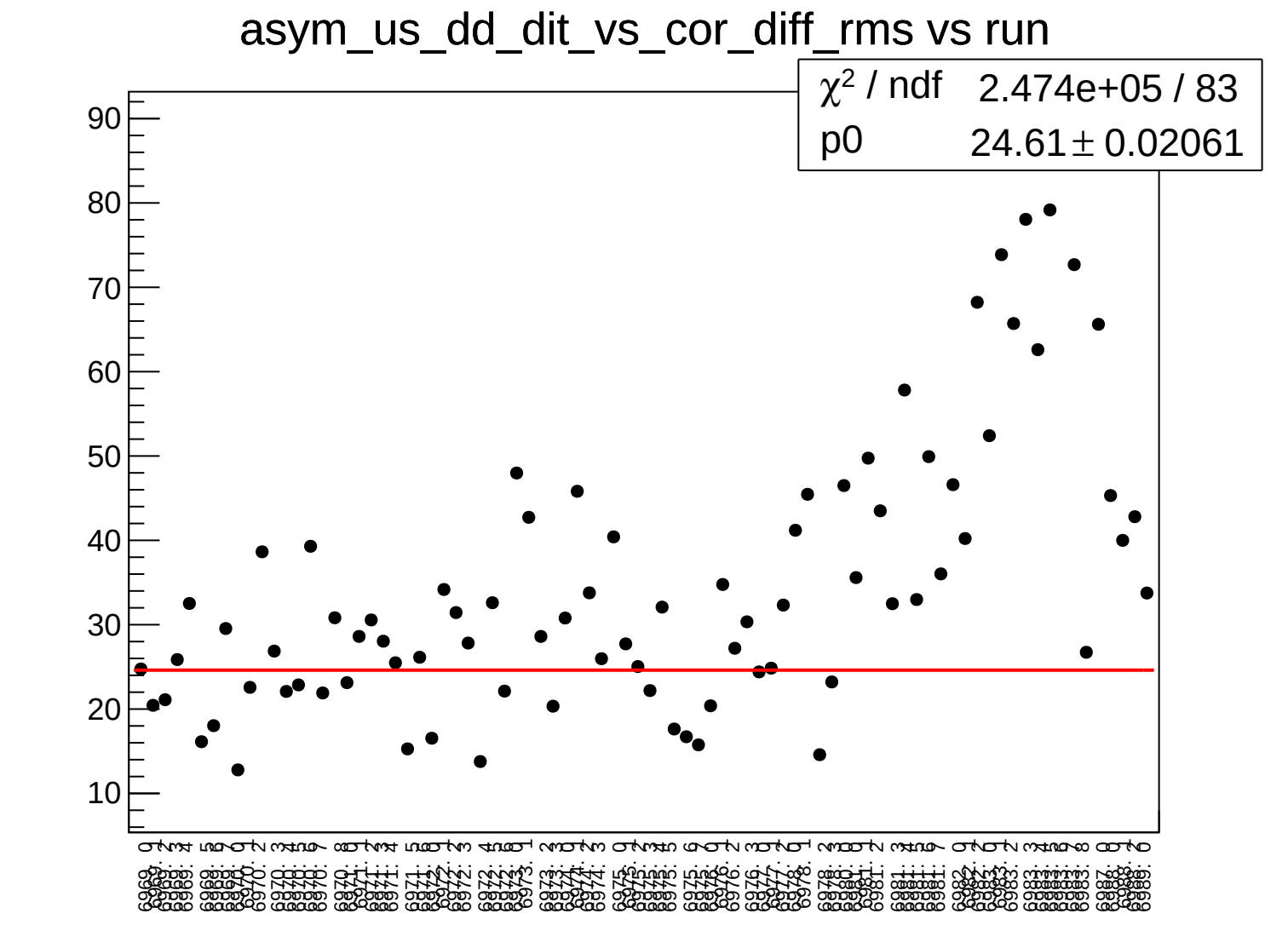

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.46 / 83
p0 −1.808e−14 ± 2.239e−14
pull
Entries 84
Mean 175.8
Std Dev 0

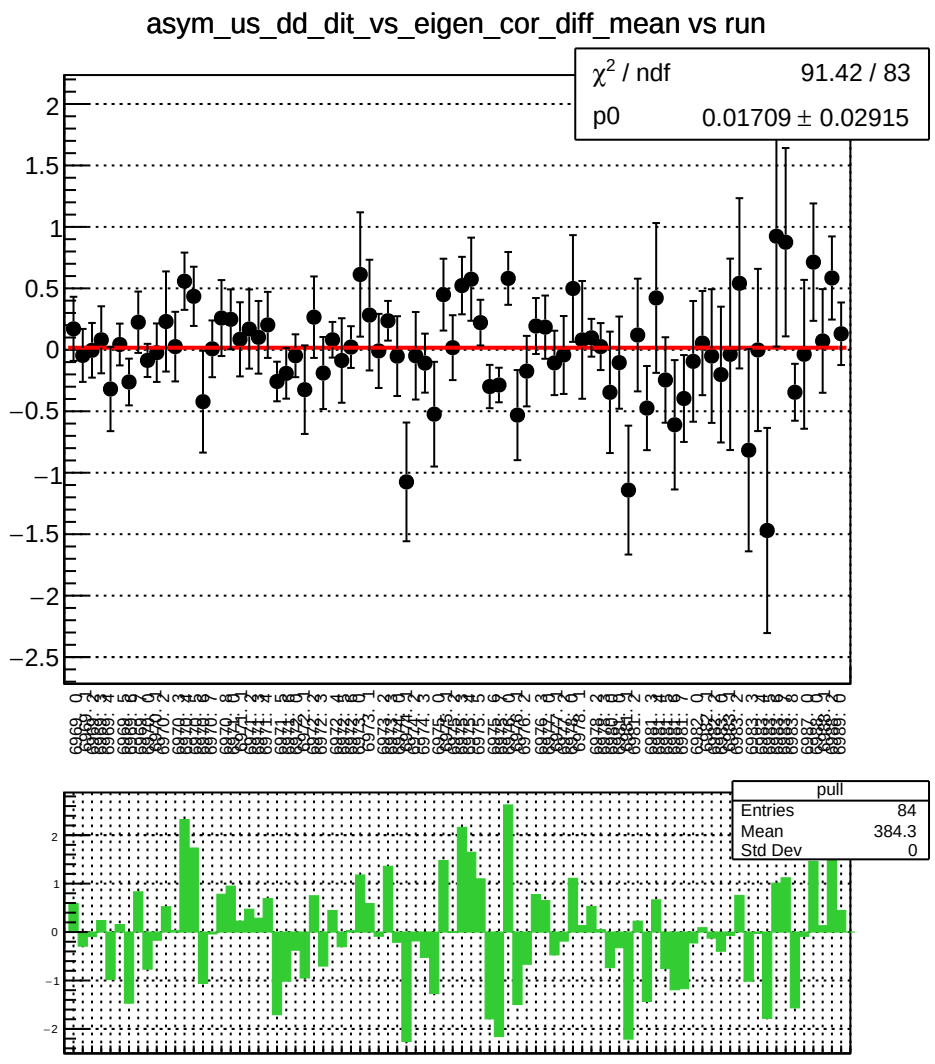

pull1D
Entries 84
Mean −0.04026
Std Dev 1.014

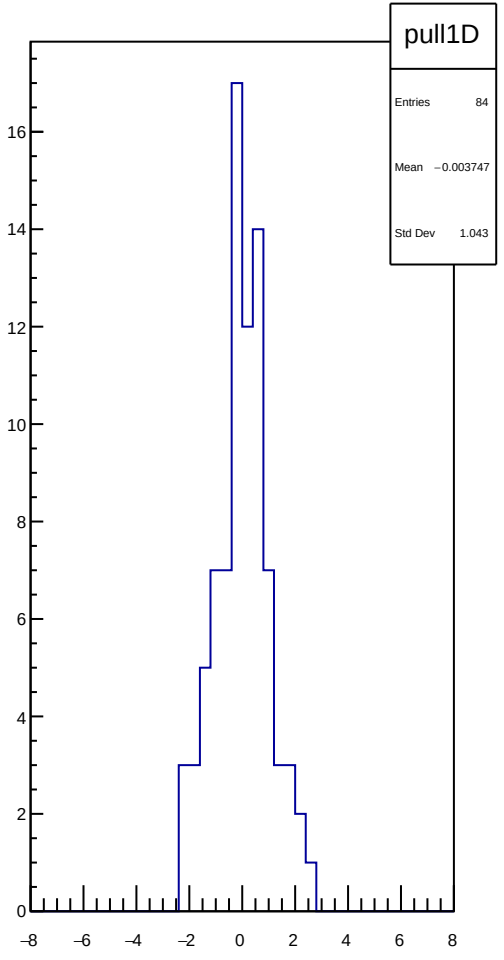

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.073e+05 / 83
p0 1.709e−11 ± 1.583e−14

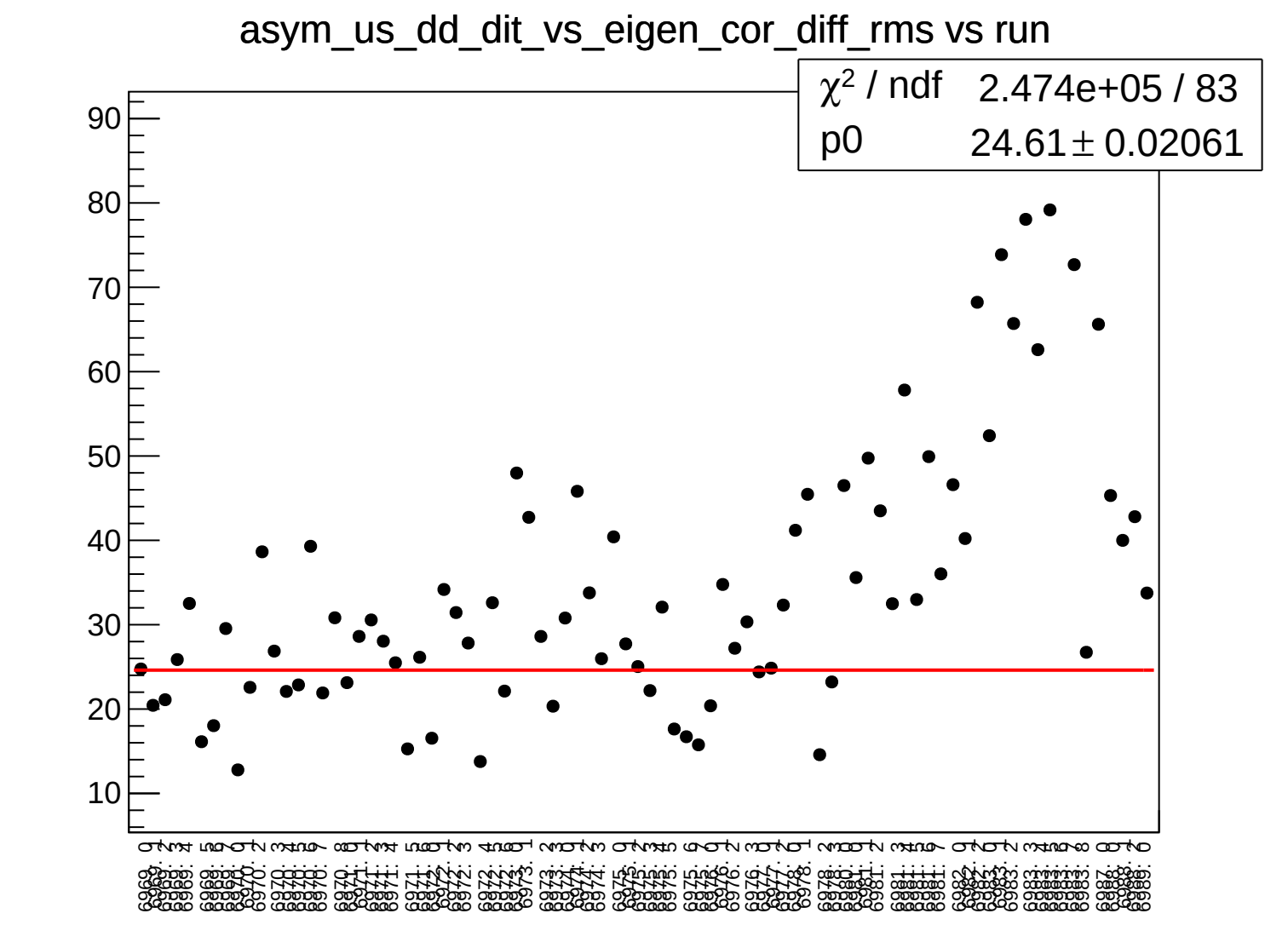

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.42 / 83
p0 0.01709 ± 0.02915
pull
Entries 84
Mean 384.3
Std Dev 0

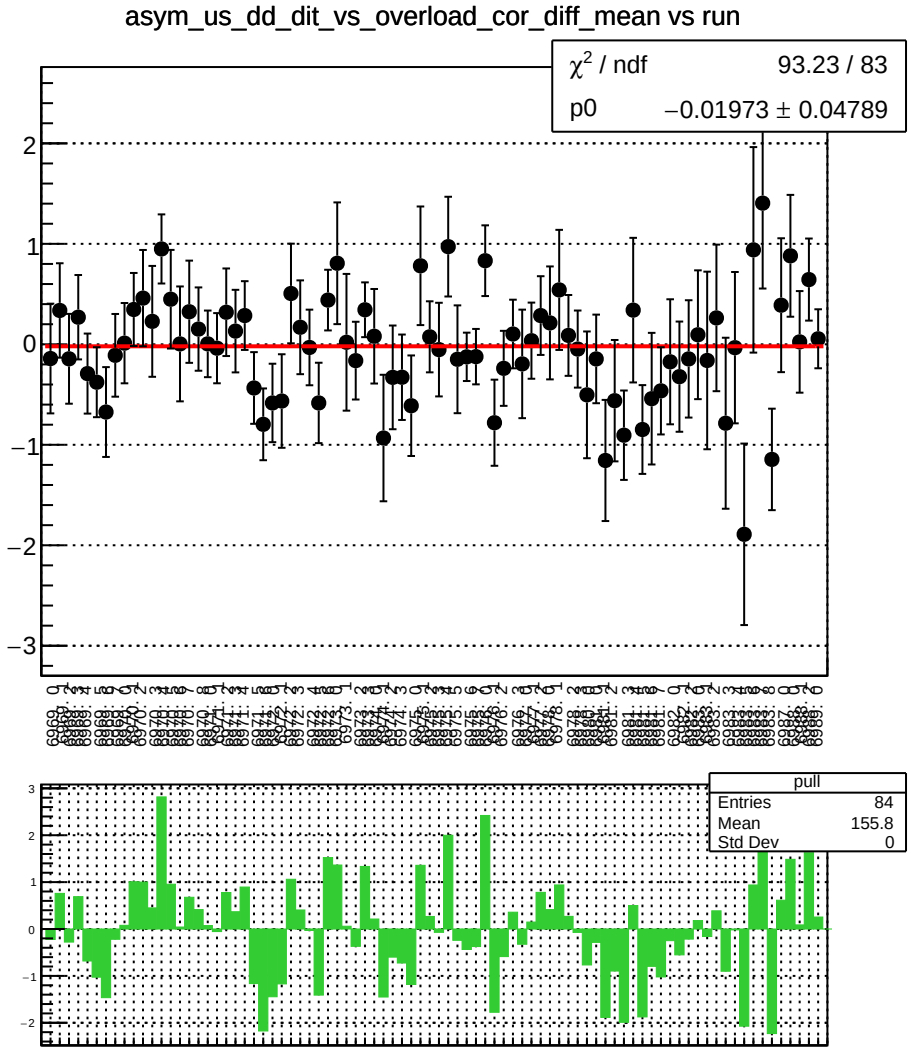

pull1D
Entries 84
Mean −0.003747
Std Dev 1.043

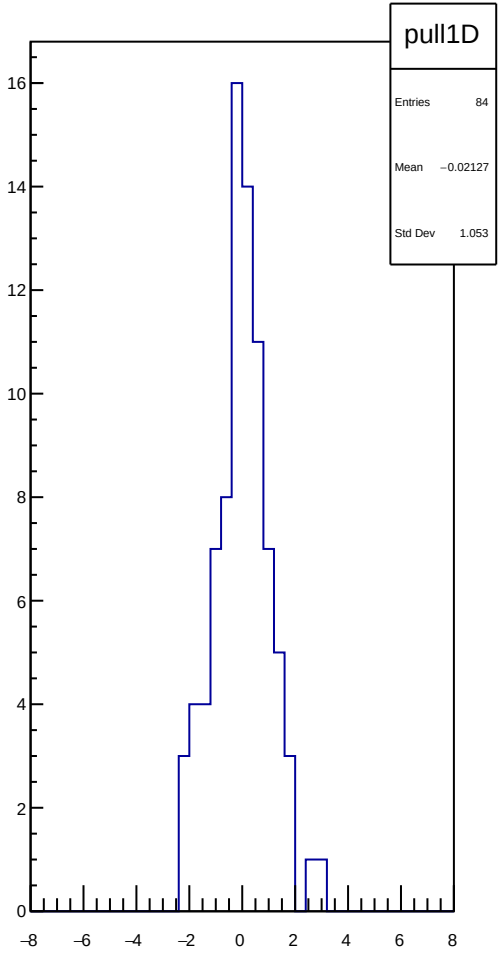

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.474e+05 / 83
p0 24.61 ± 0.02061
90
80
70
60
50
40
30
20
10

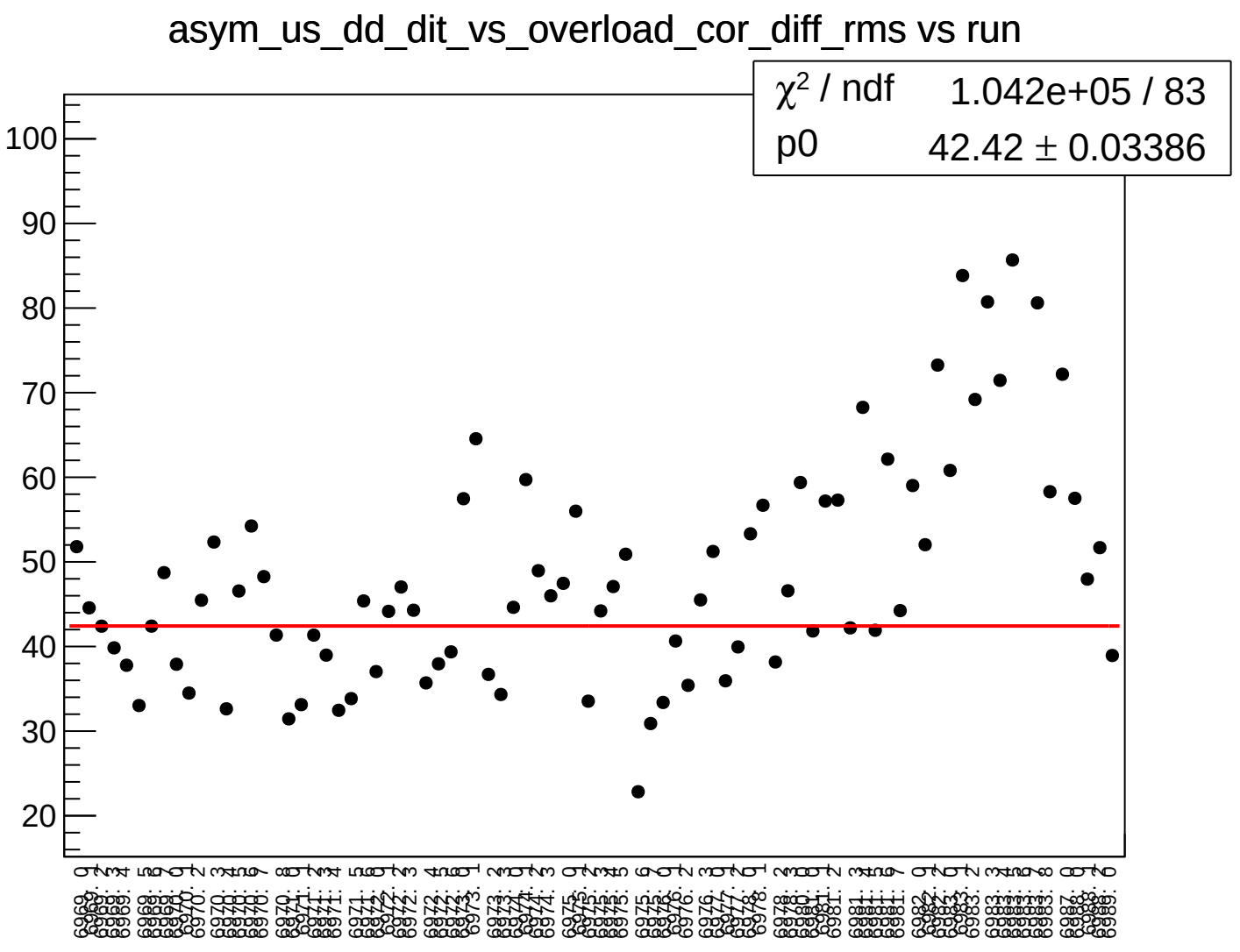

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.42 / 83
p0 0.01709 ± 0.02915
pull
Entries 84
Mean 384.3
Std Dev 0

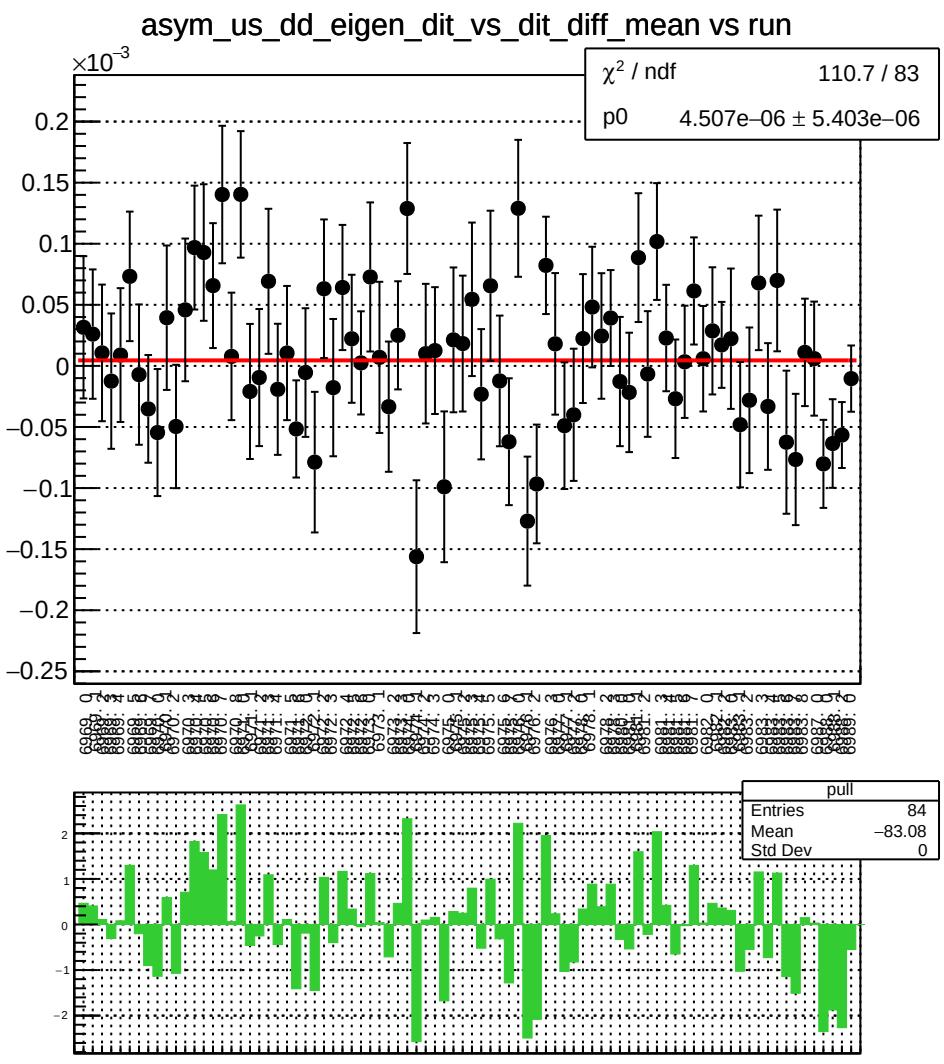

pull1D
Entries 84
Mean −0.003747
Std Dev 1.043

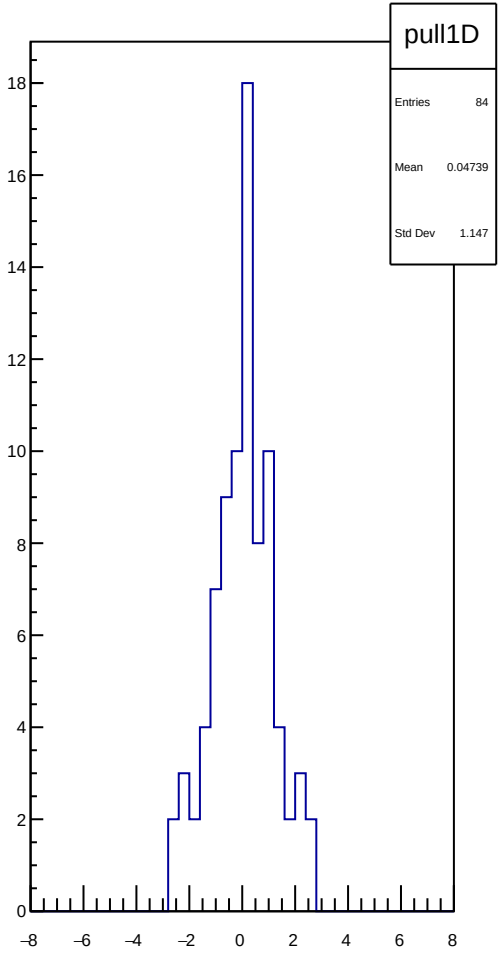

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.474e+05 / 83
p0 24.61 ± 0.02061
90
80
70
60
50
40
30
20
10

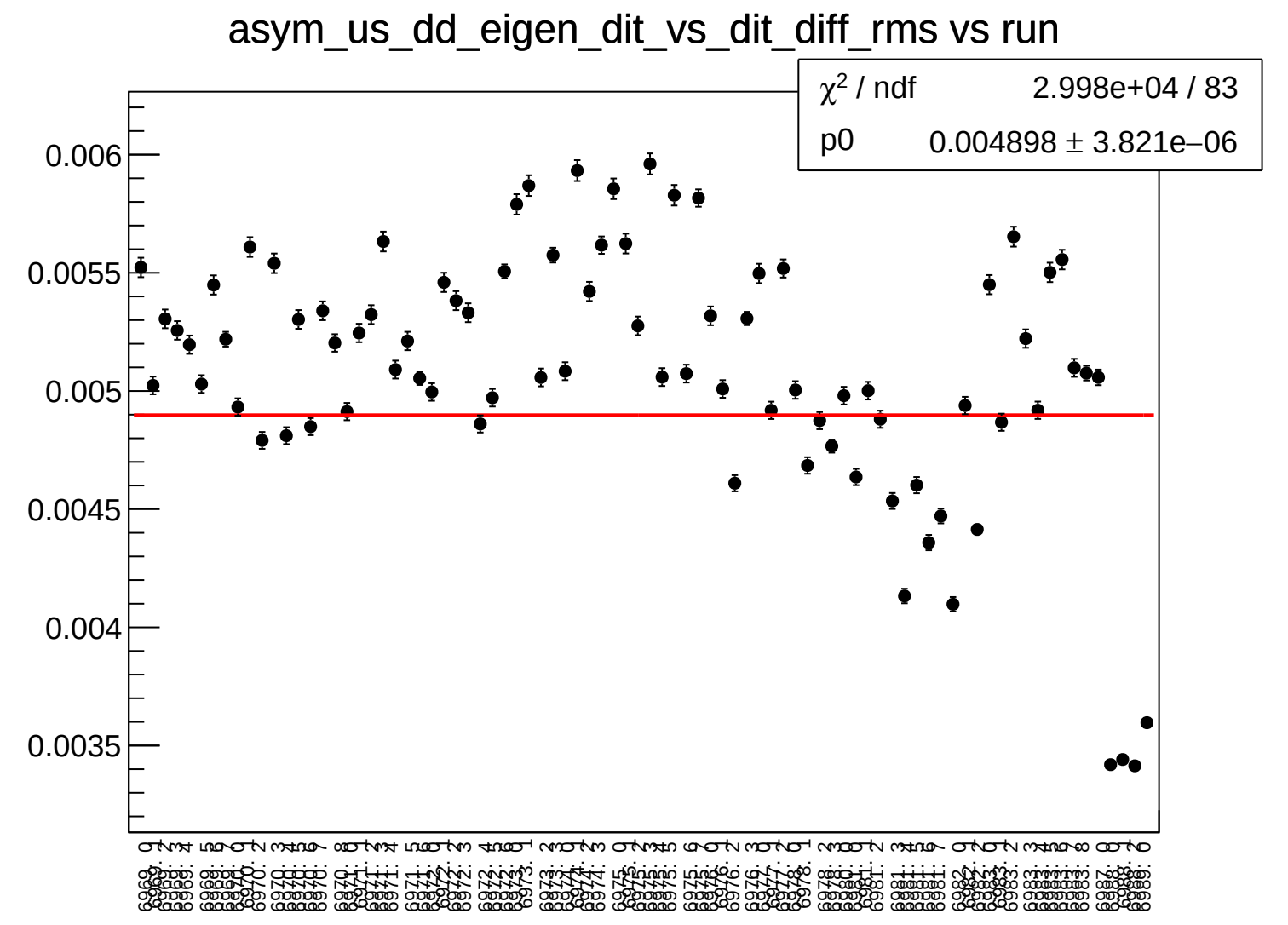

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 93.23 / 83
p0 −0.01973 ± 0.04789
pull
Entries 84
Mean 155.8
Std Dev 0

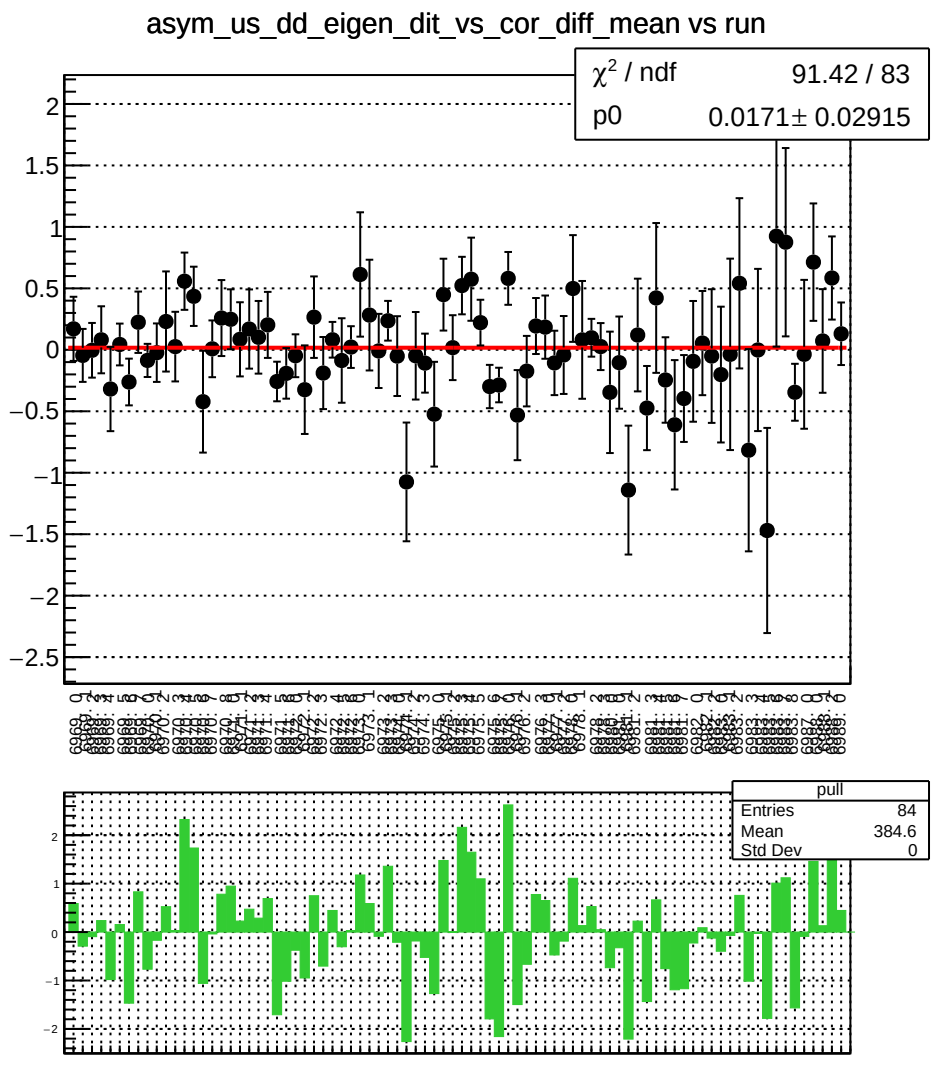

pull1D
Entries 84
Mean −0.02127
Std Dev 1.053

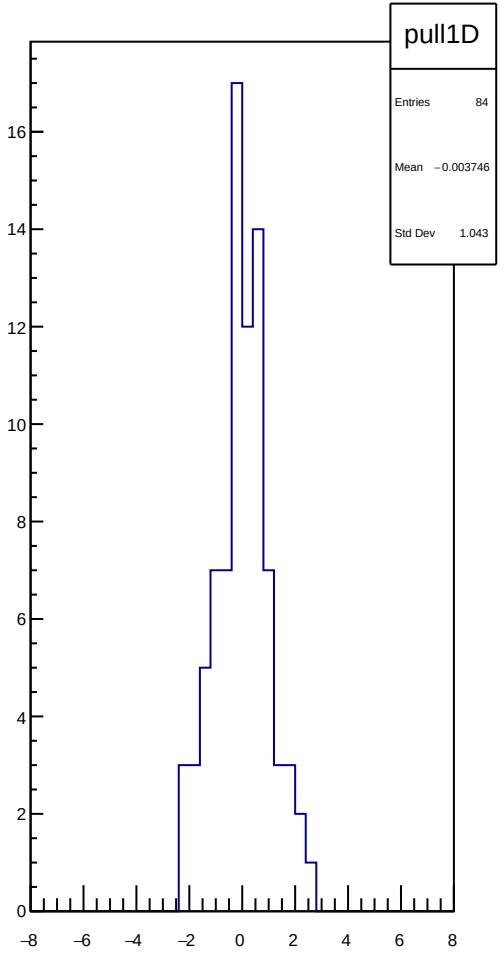

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.042e+05 / 83
p0 42.42 ± 0.03386
100
90
80
70
60
50
40
30
20

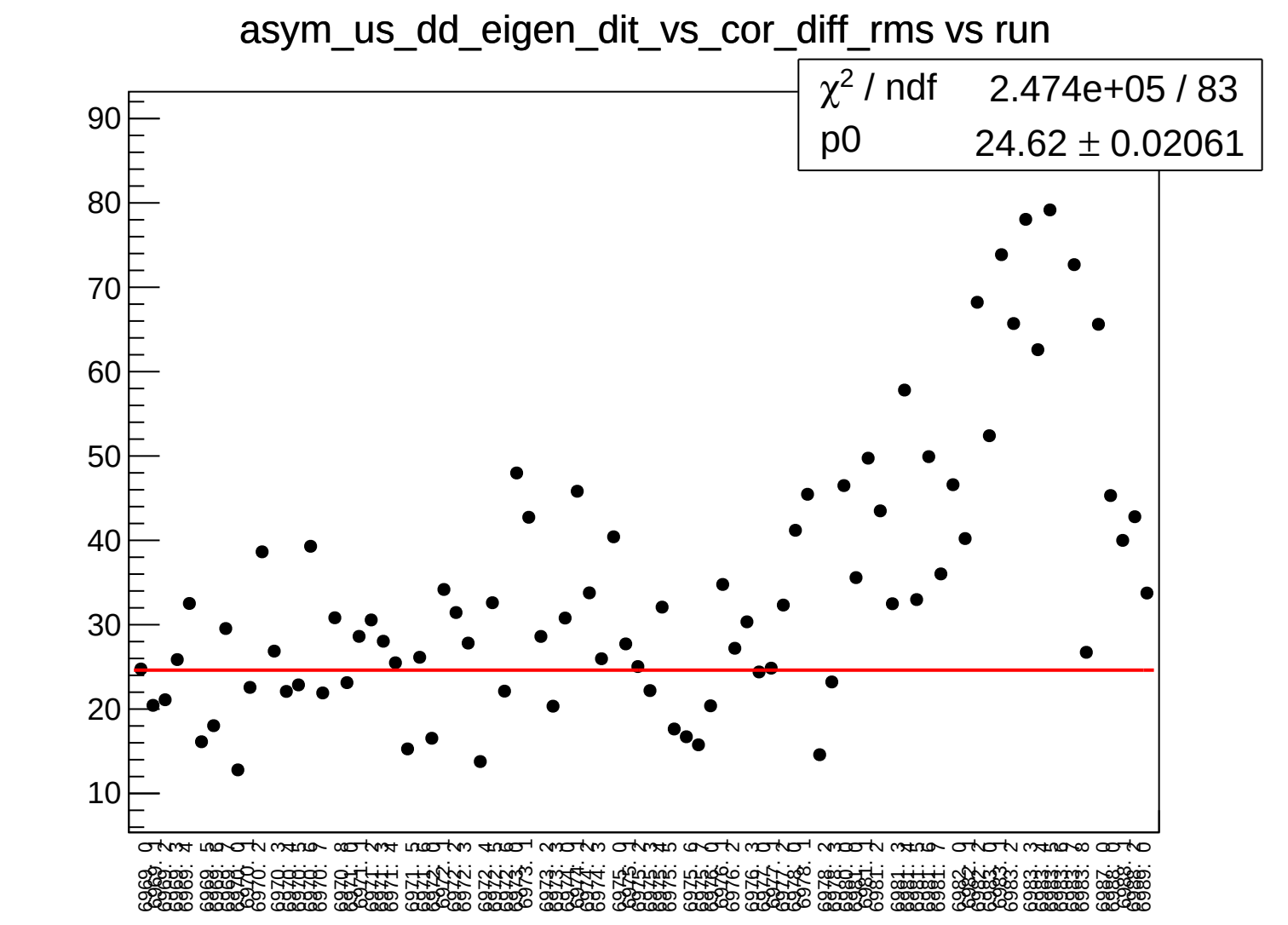

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.7 / 83
p0 4.507e−06 ± 5.403e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 84
Mean −83.08
Std Dev 0
2
1
0
−1
−2

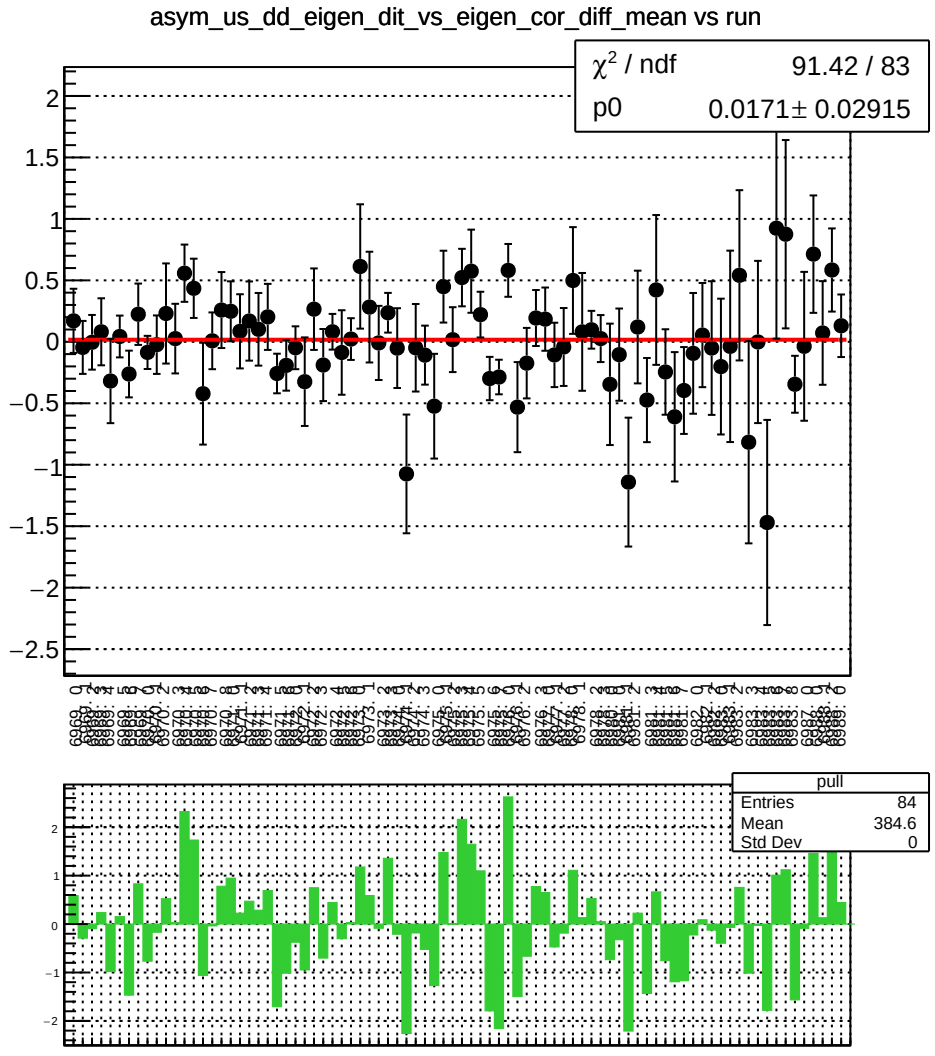

pull1D
Entries 84
Mean 0.04739
Std Dev 1.147
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

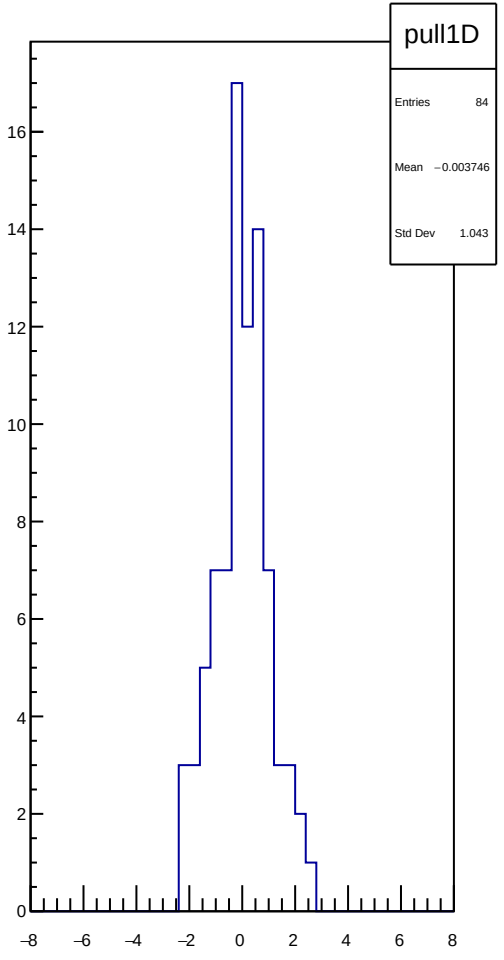

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.998e+04 / 83
p0 0.004898 ± 3.821e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

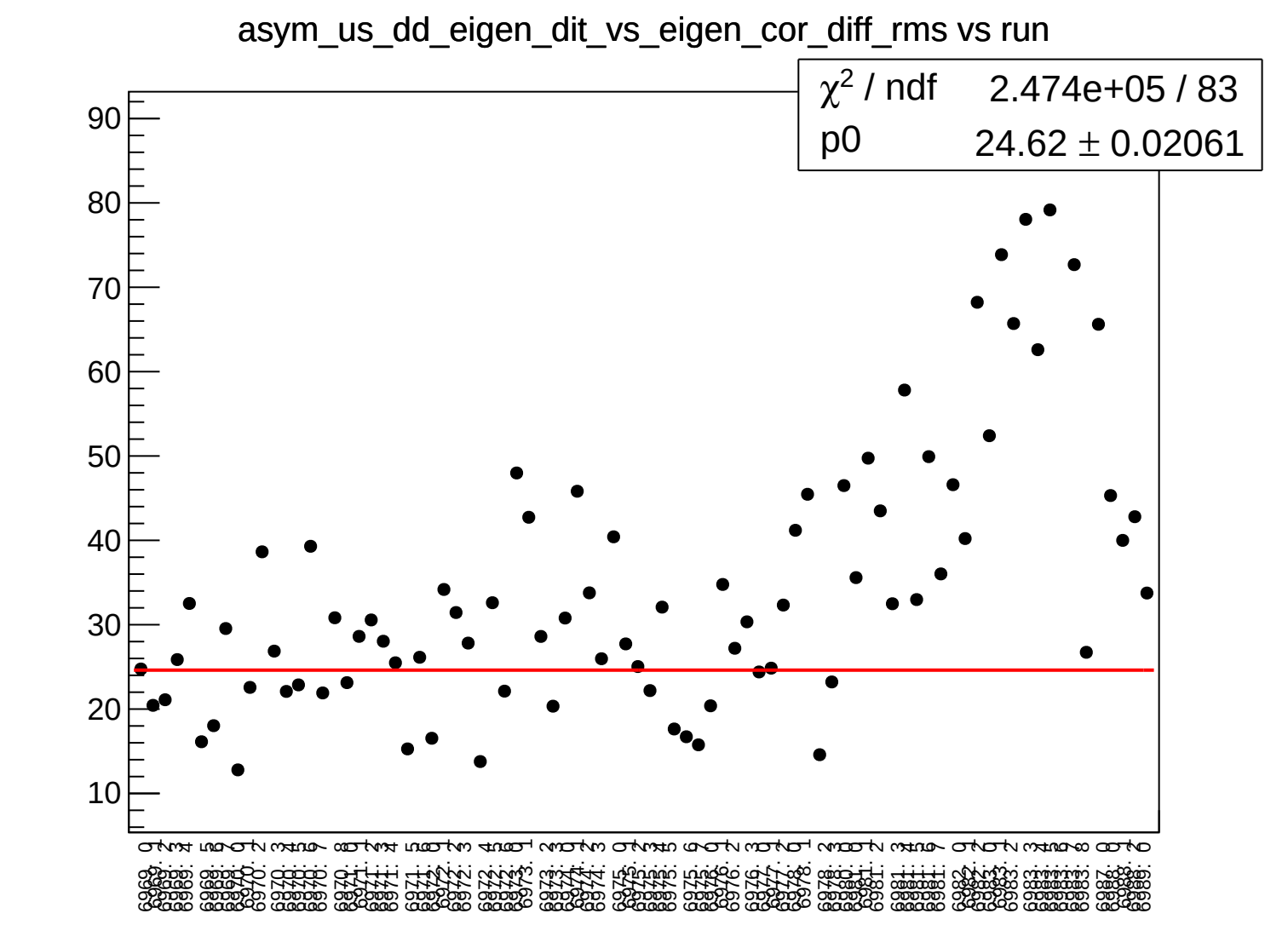

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.42 / 83
p0 0.0171± 0.02915
pull
Entries 84
Mean 384.6
Std Dev 0

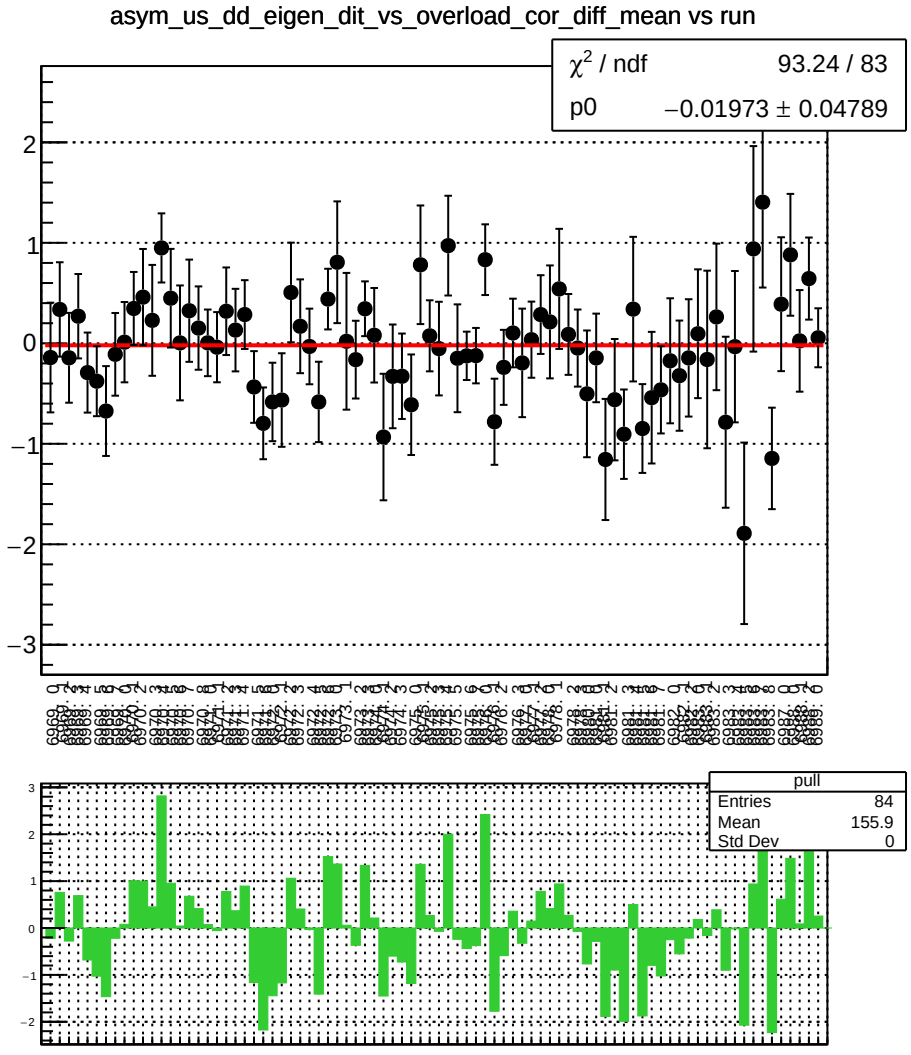

pull1D
Entries 84
Mean −0.003746
Std Dev 1.043

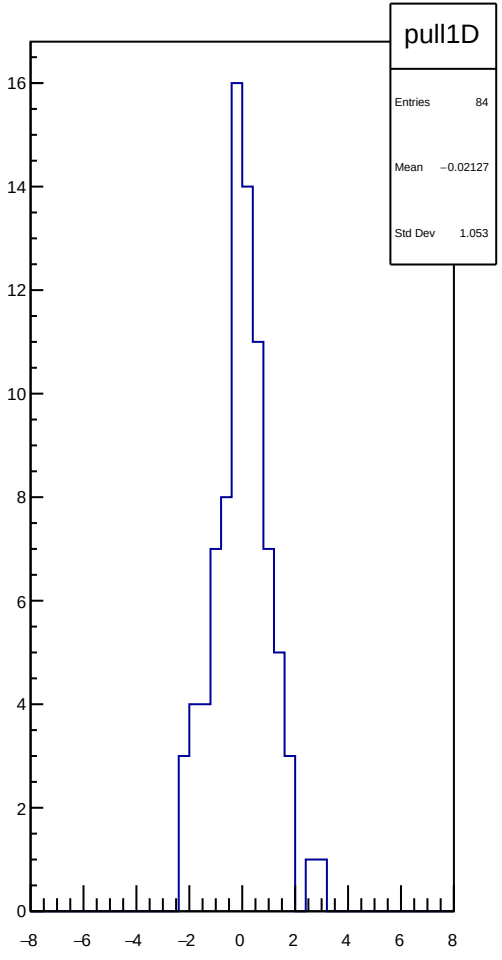

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.474e+05 / 83
p0 24.62 ± 0.02061
90
80
70
60
50
40
30
20
10

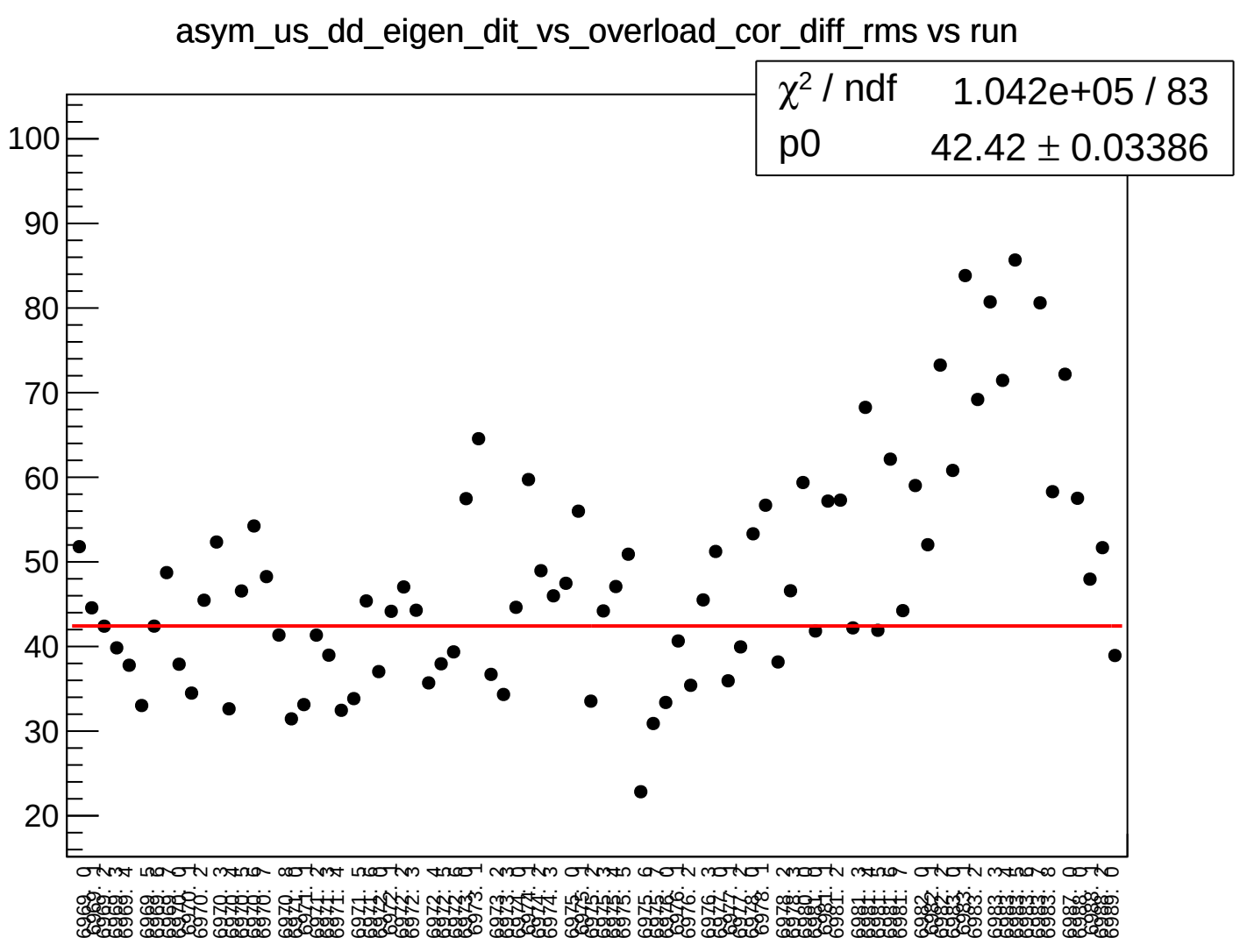

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.42 / 83
p0 0.0171± 0.02915
pull
Entries 84
Mean 384.6
Std Dev 0

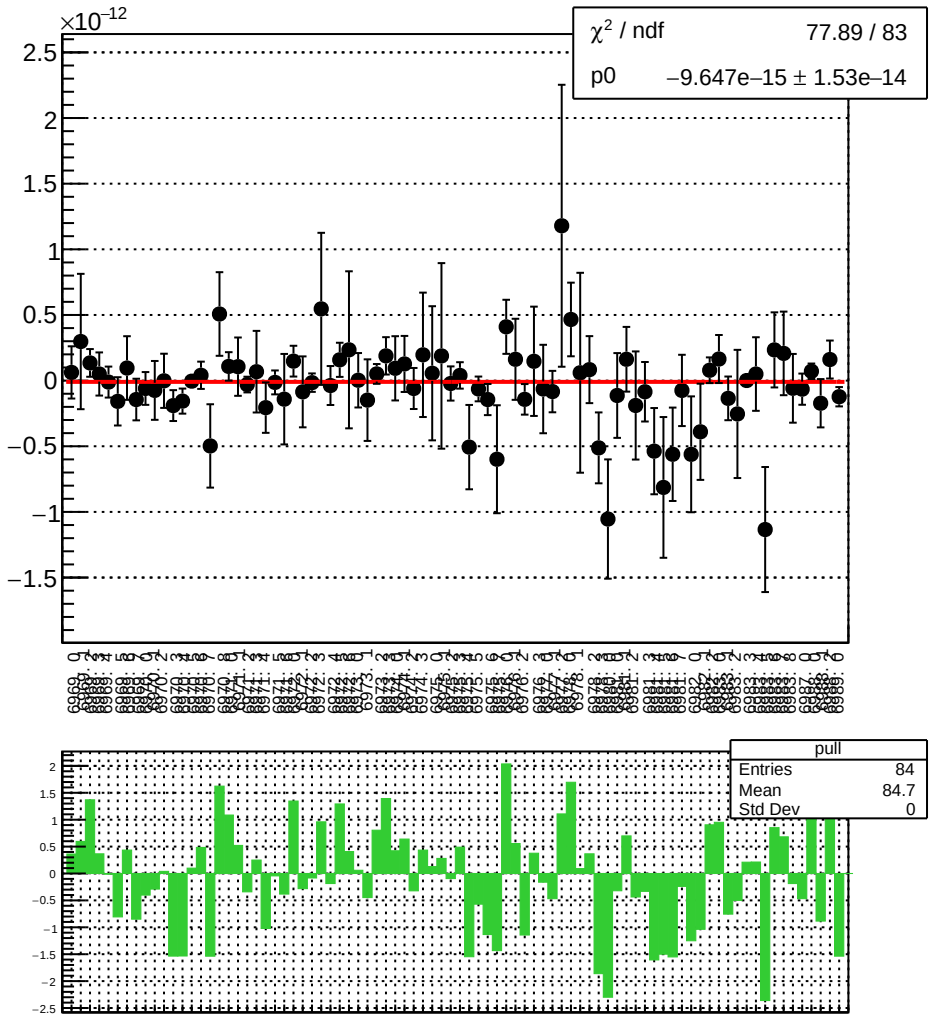

pull1D
Entries 84
Mean −0.003746
Std Dev 1.043

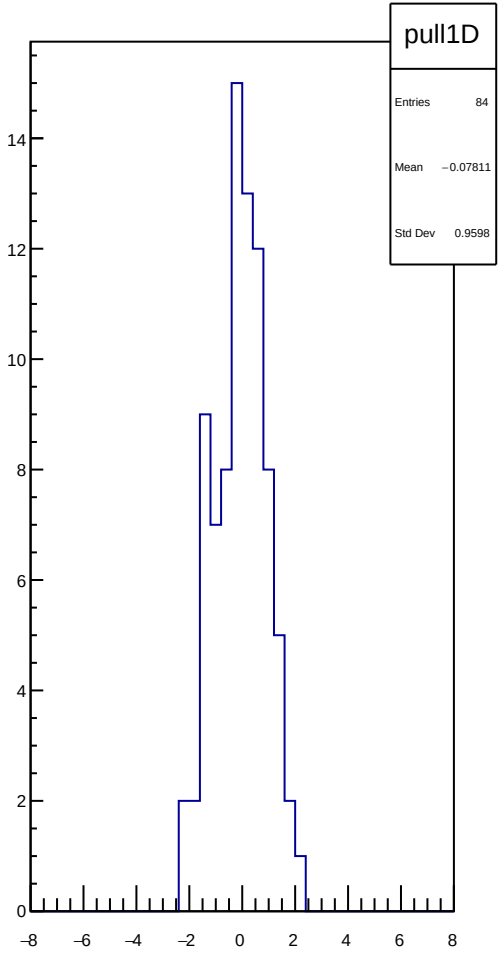

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.474e+05 / 83
p0 24.62 ± 0.02061
90
80
70
60
50
40
30
20
10

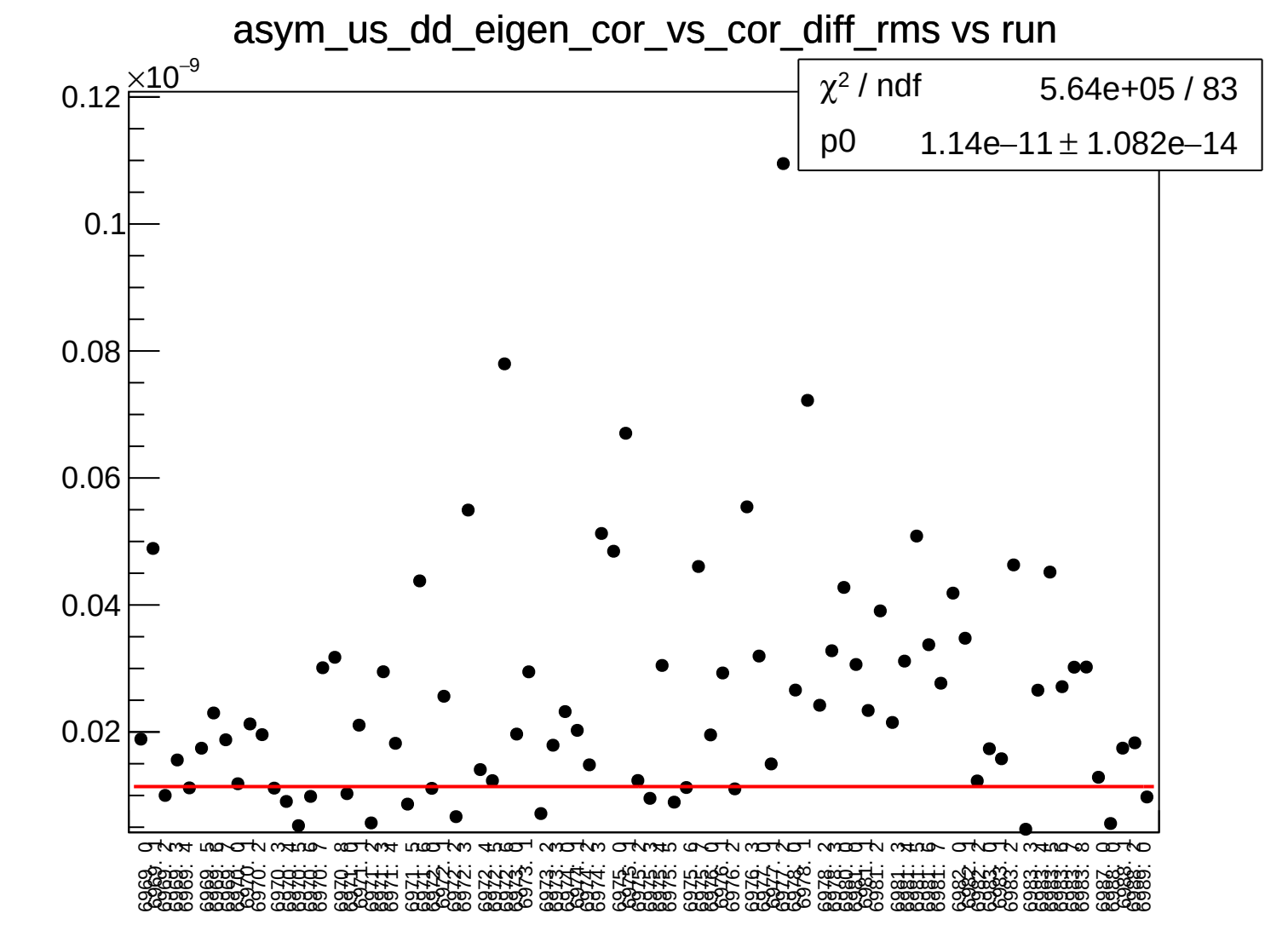

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 93.24 / 83
p0 −0.01973 ± 0.04789
pull
Entries 84
Mean 155.9
Std Dev 0

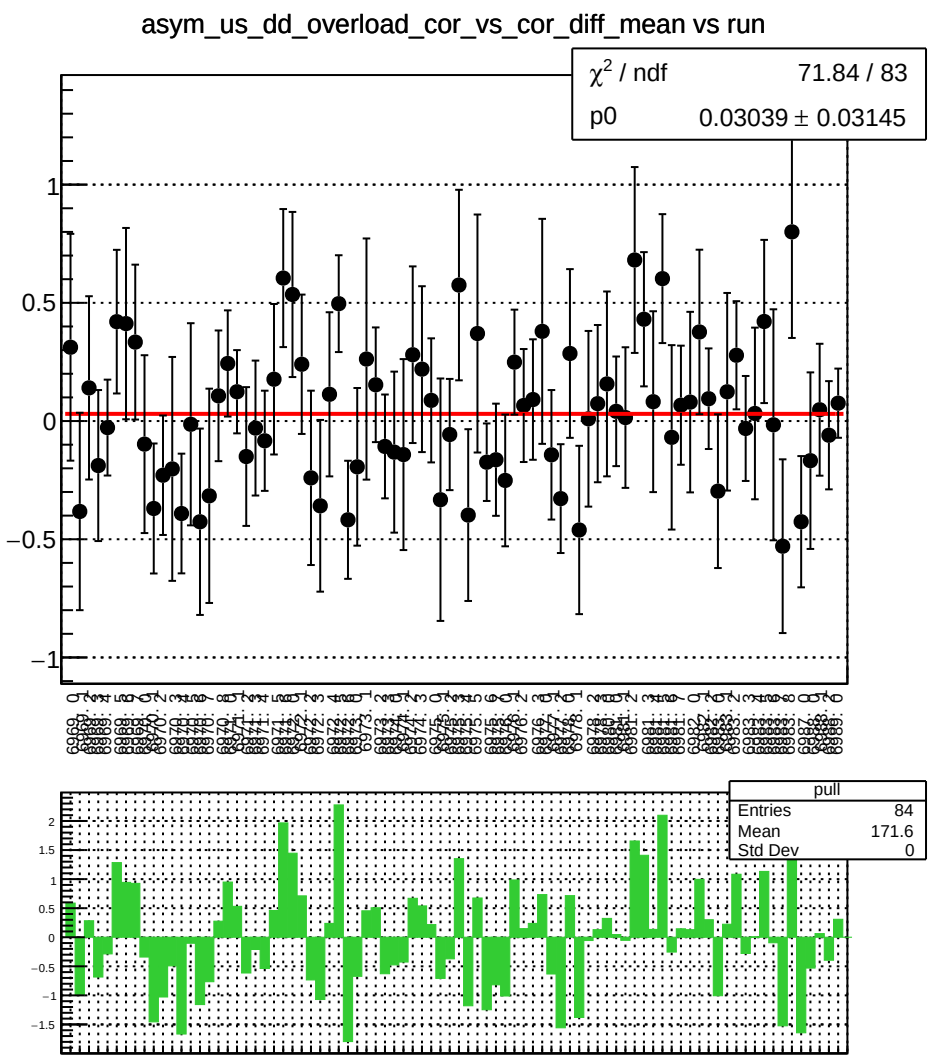

pull1D
Entries 84
Mean −0.02127
Std Dev 1.053

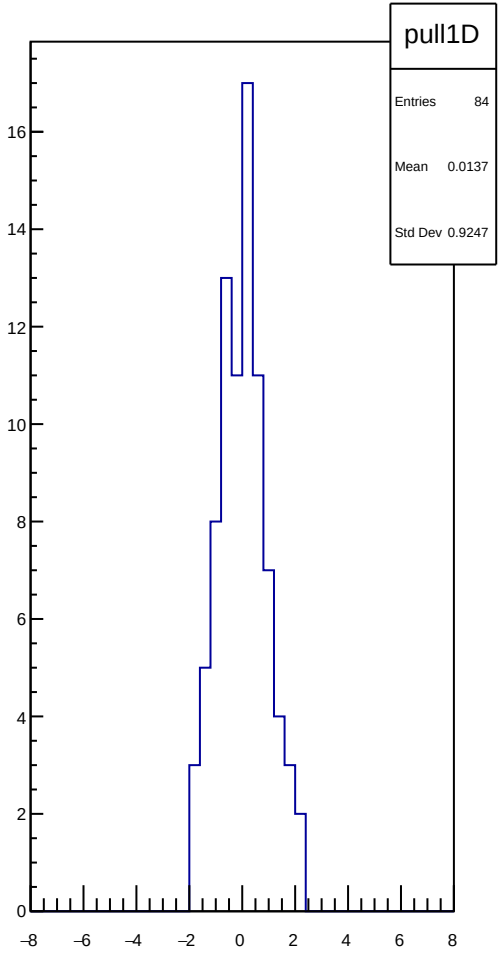

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.042e+05 / 83
p0 42.42 ± 0.03386
100
90
80
70
60
50
40
30
20

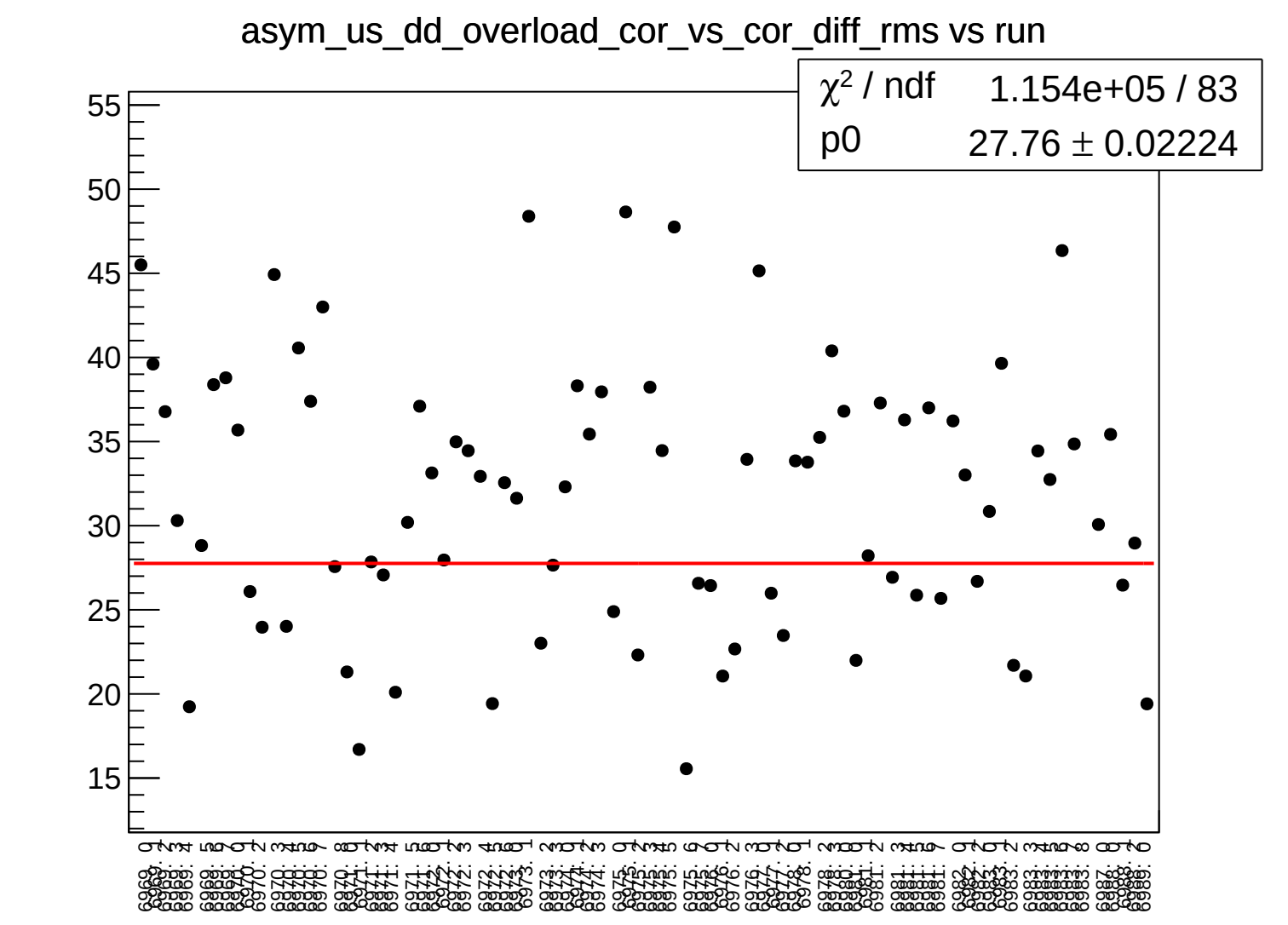

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.89 / 83
p0 −9.647e−15 ± 1.53e−14
pull
Entries 84
Mean 84.7
Std Dev 0

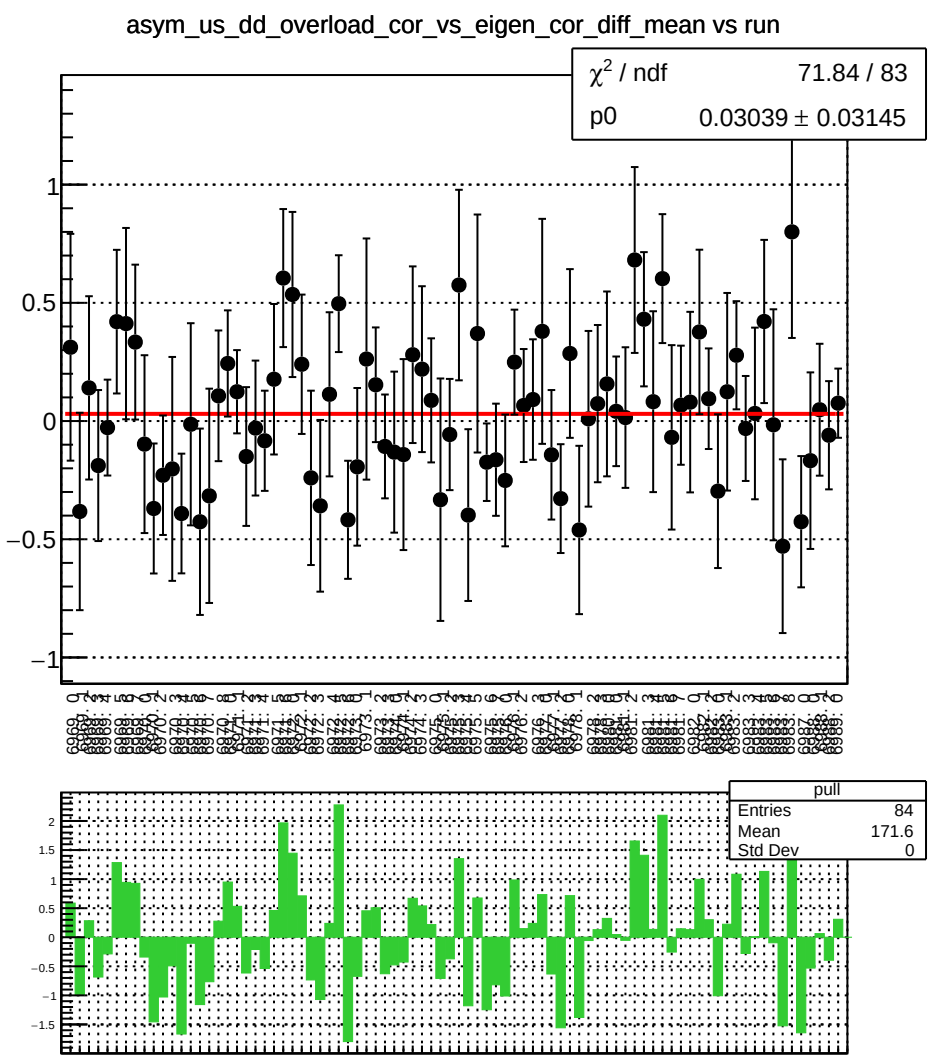

pull1D
Entries 84
Mean −0.07811
Std Dev 0.9598

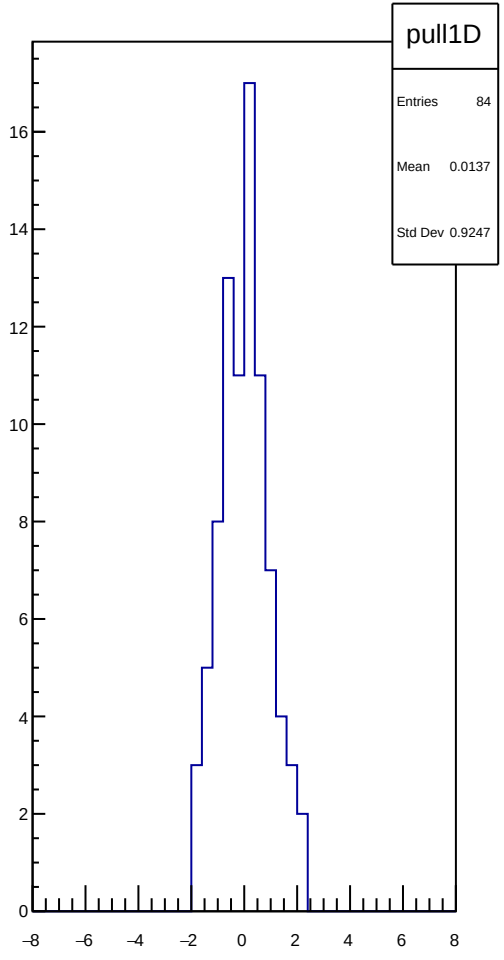

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.64e+05 / 83
p0 1.14e−11 ± 1.082e−14

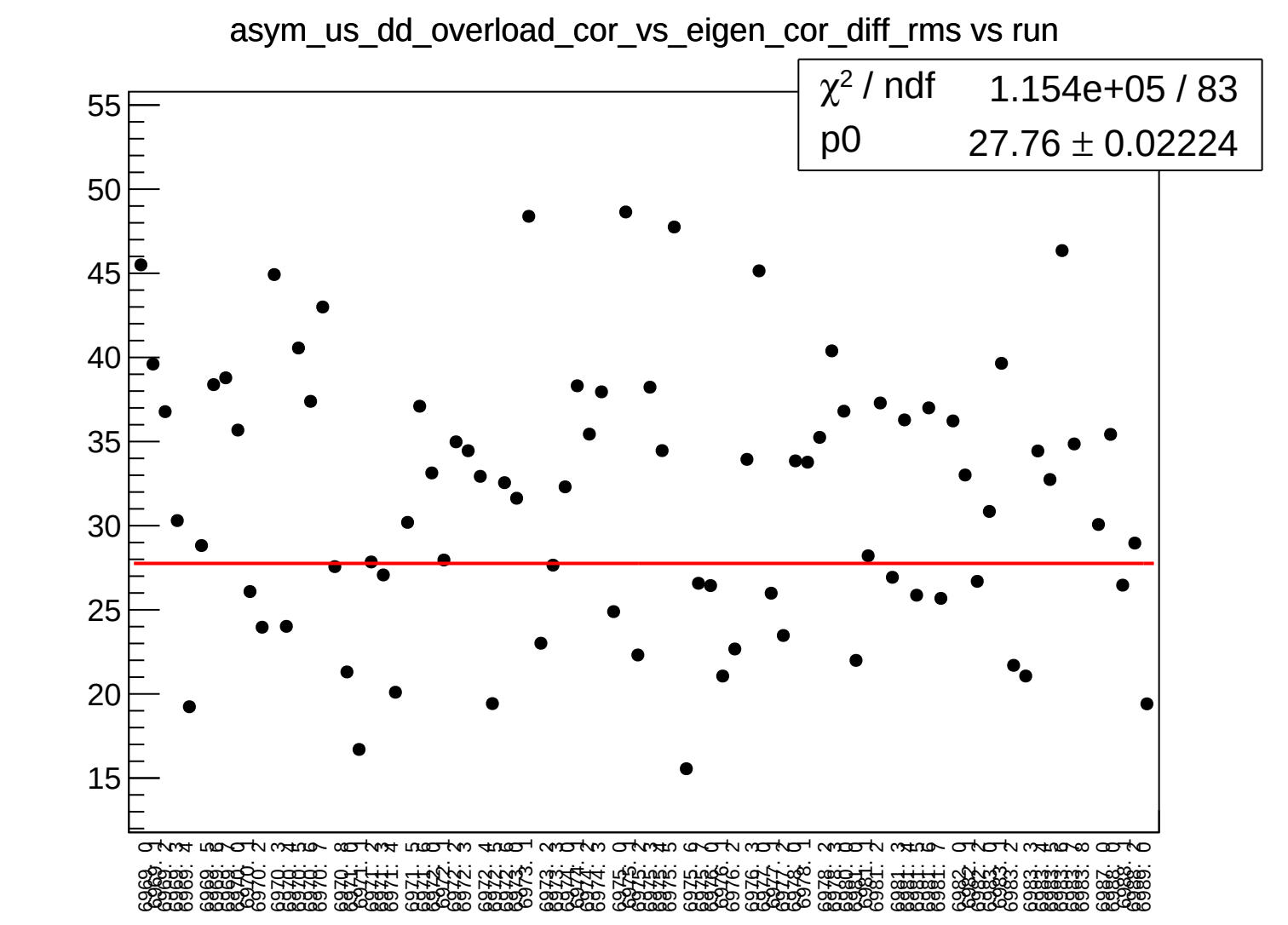

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 71.84 / 83
p0 0.03039 ± 0.03145
pull
Entries 84
Mean 171.6
Std Dev 0

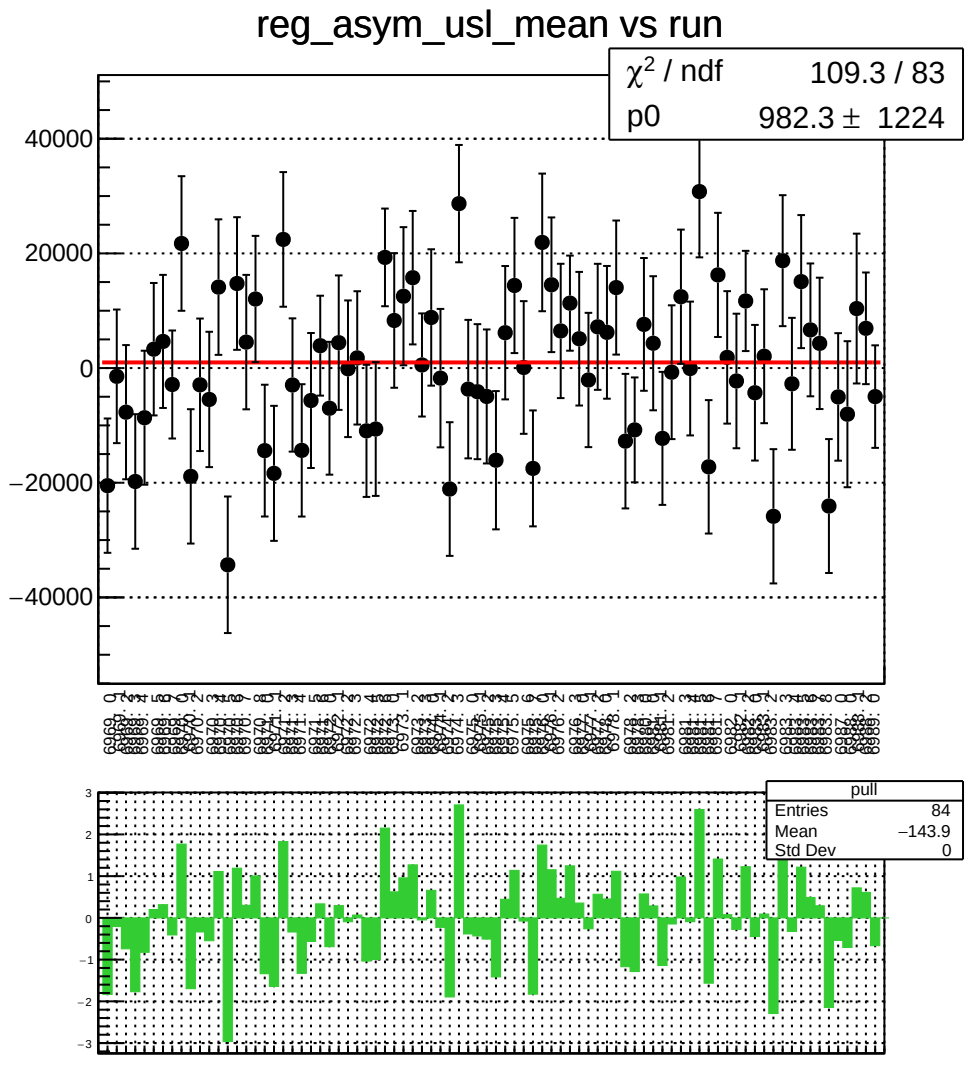

pull1D
Entries 84
Mean 0.0137
Std Dev 0.9247

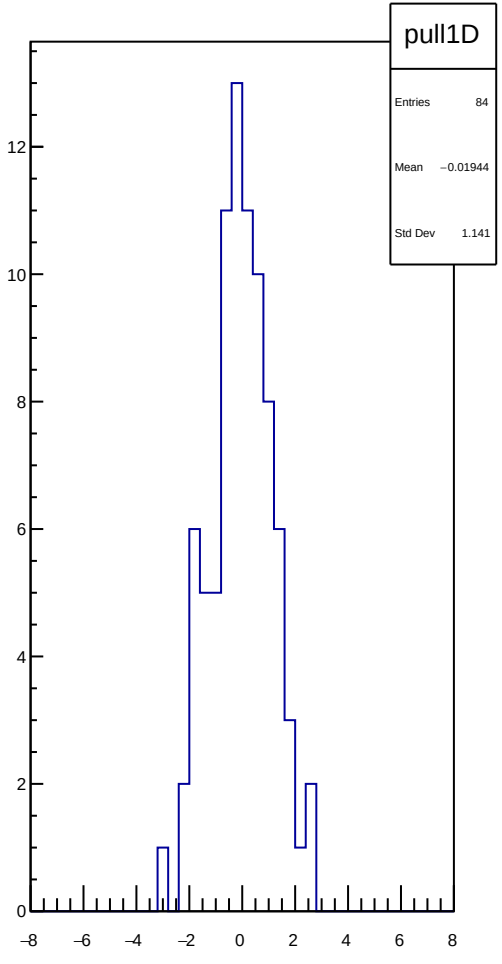

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.154e+05 / 83
p0 27.76 ± 0.02224
55
50
45
40
35
30
25
20
15

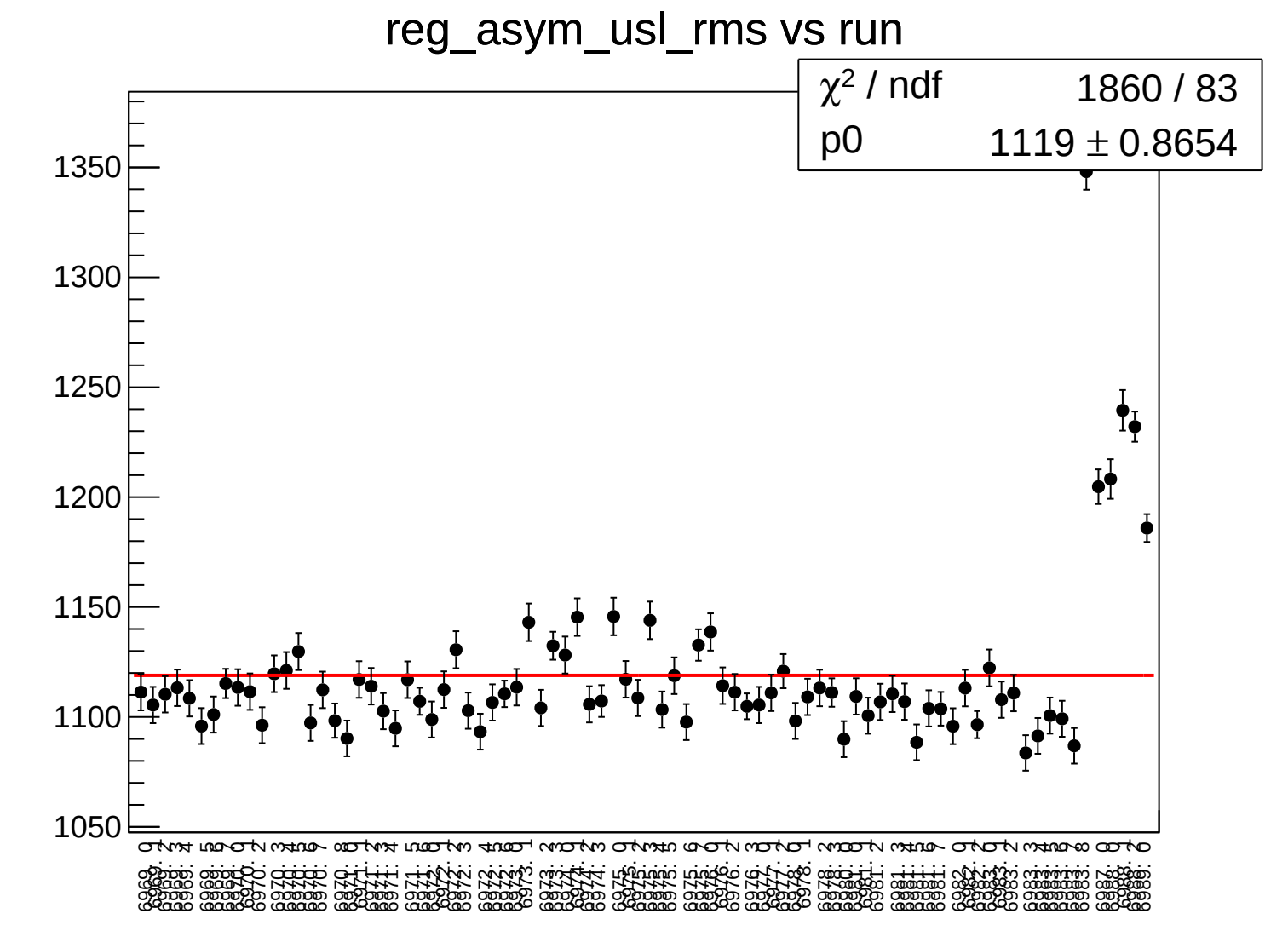

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.84 / 83
p0 0.03039 ± 0.03145
pull
Entries 84
Mean 171.6
Std Dev 0

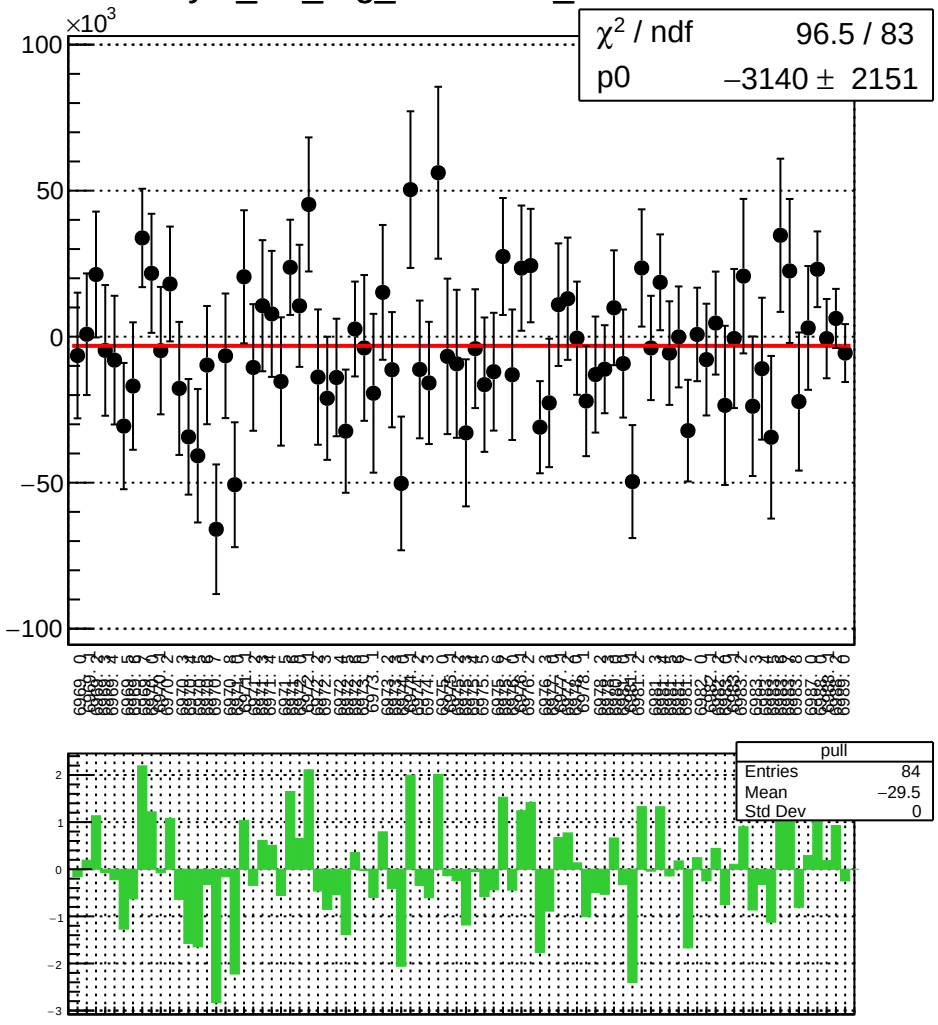

pull1D
Entries 84
Mean 0.0137
Std Dev 0.9247

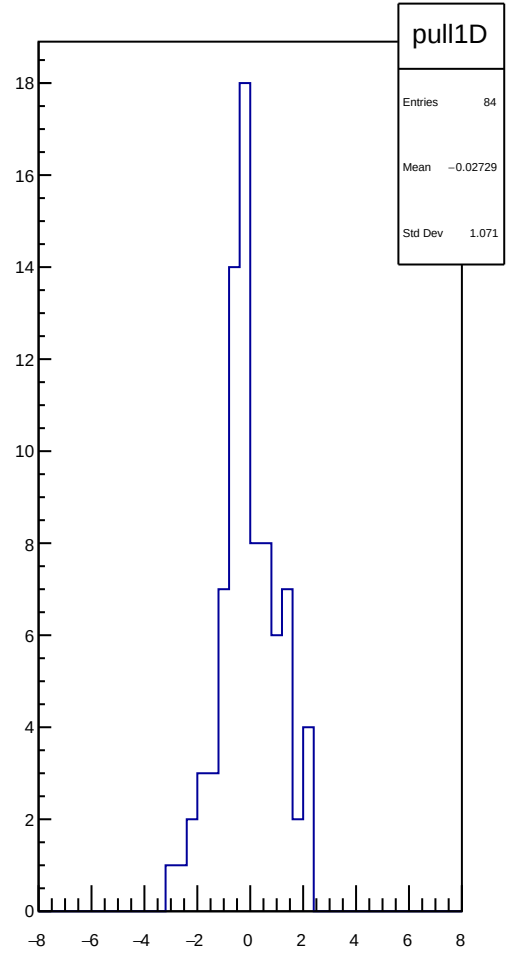

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.154e+05 / 83
p0 27.76 ± 0.02224
55
50
45
40
35
30
25
20
15

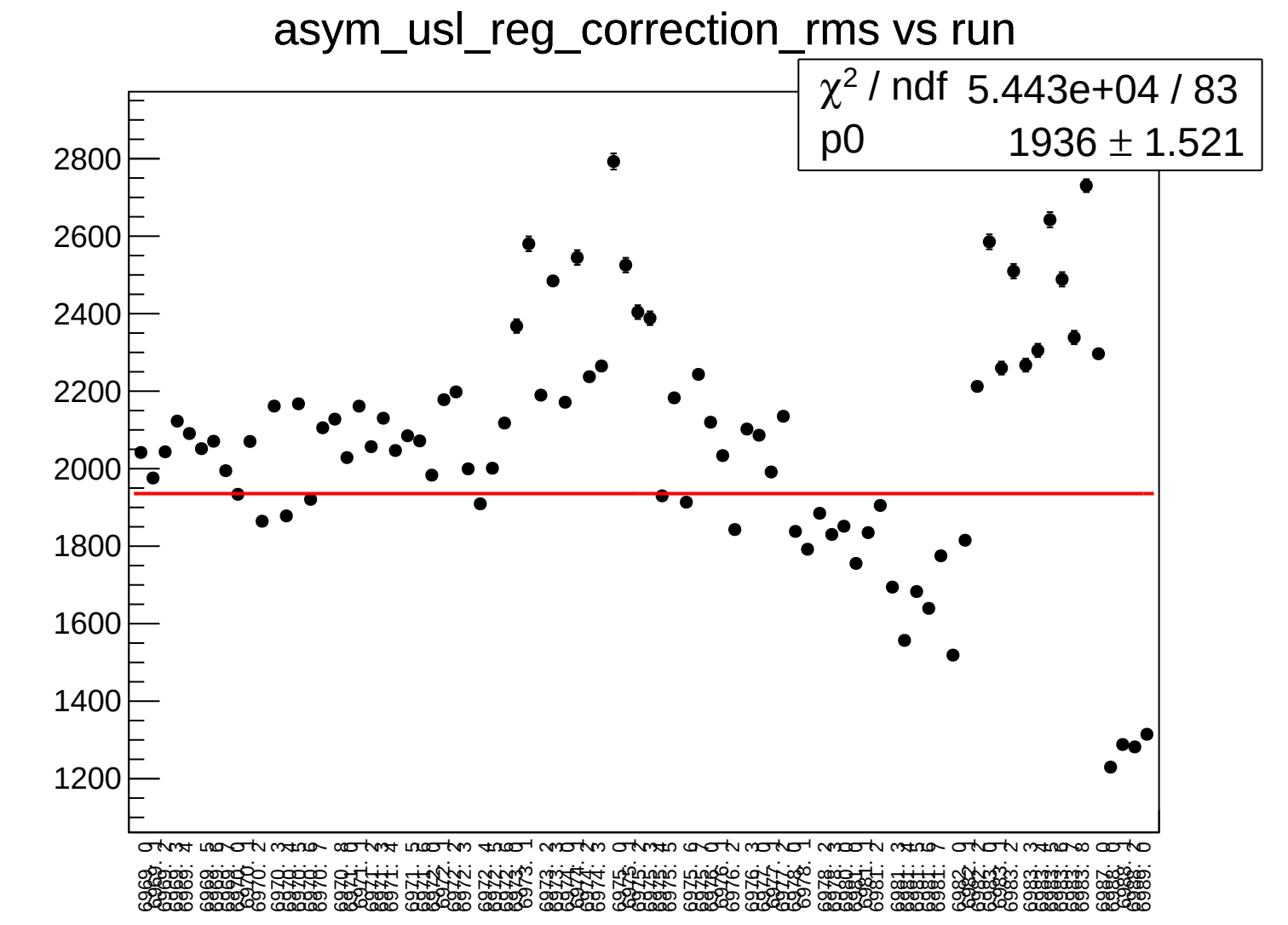

reg_asym_usl_mean vs run
χ² / ndf 109.3 / 83
p0 982.3 ± 1224
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −143.9
Std Dev 0
3
2
1
0
−1
−2
−3

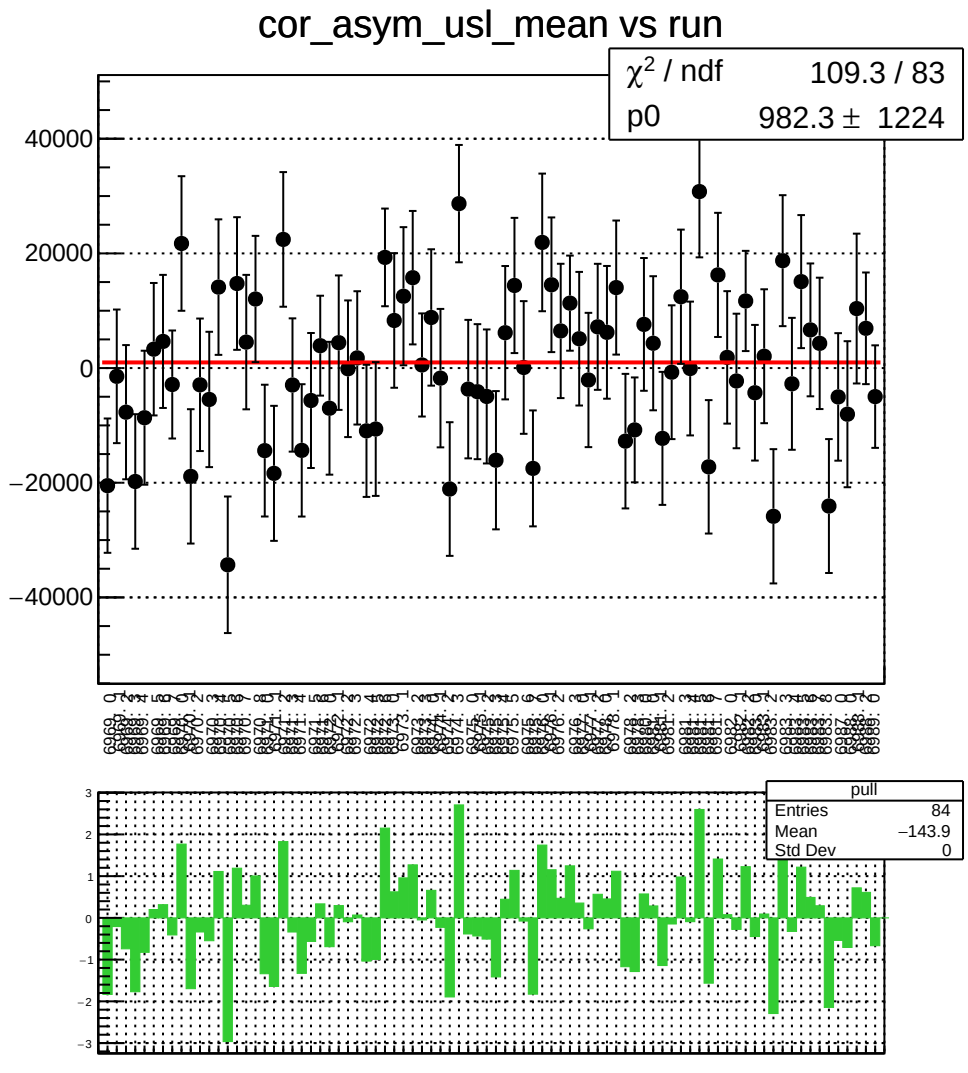

pull1D
Entries 84
Mean −0.01944
Std Dev 1.141
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

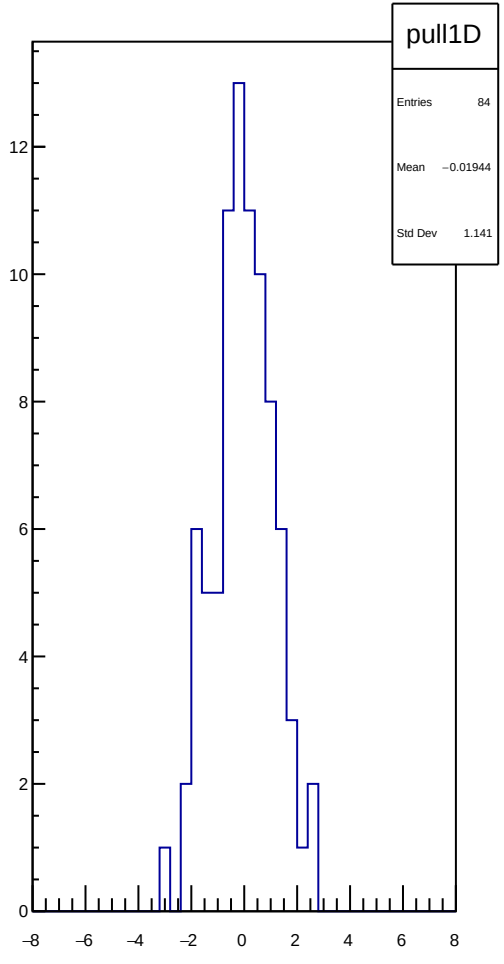

reg_asym_usl_rms vs run
χ² / ndf 1860 / 83
p0 1119 ± 0.8654
1350
1300
1250
1200
1150
1100
1050

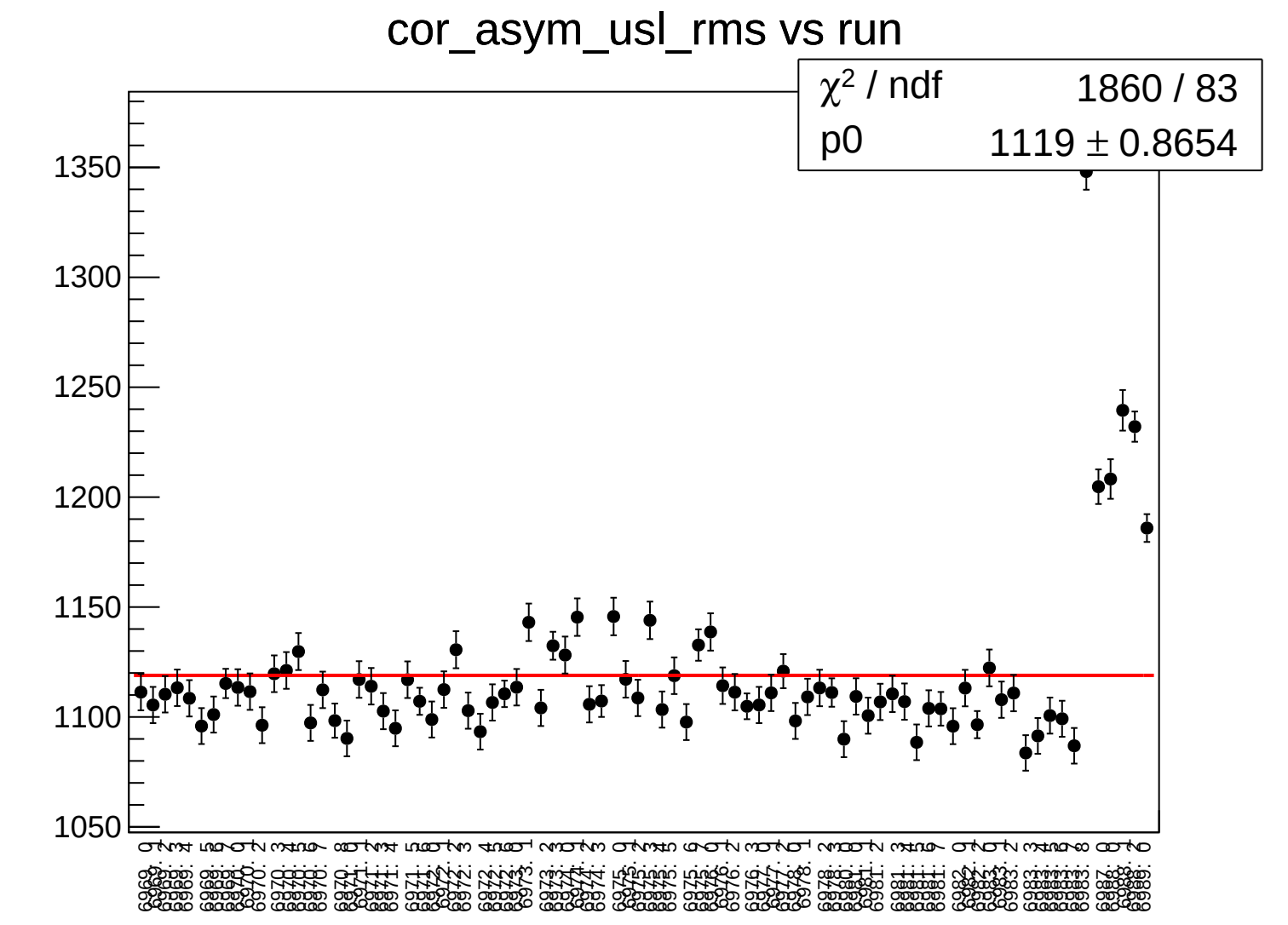

asym_usl_reg_correction_mean vs run
×10^3
χ² / ndf 96.5 / 83
p0 −3140 ± 2151
pull
Entries 84
Mean −29.5
Std Dev 0

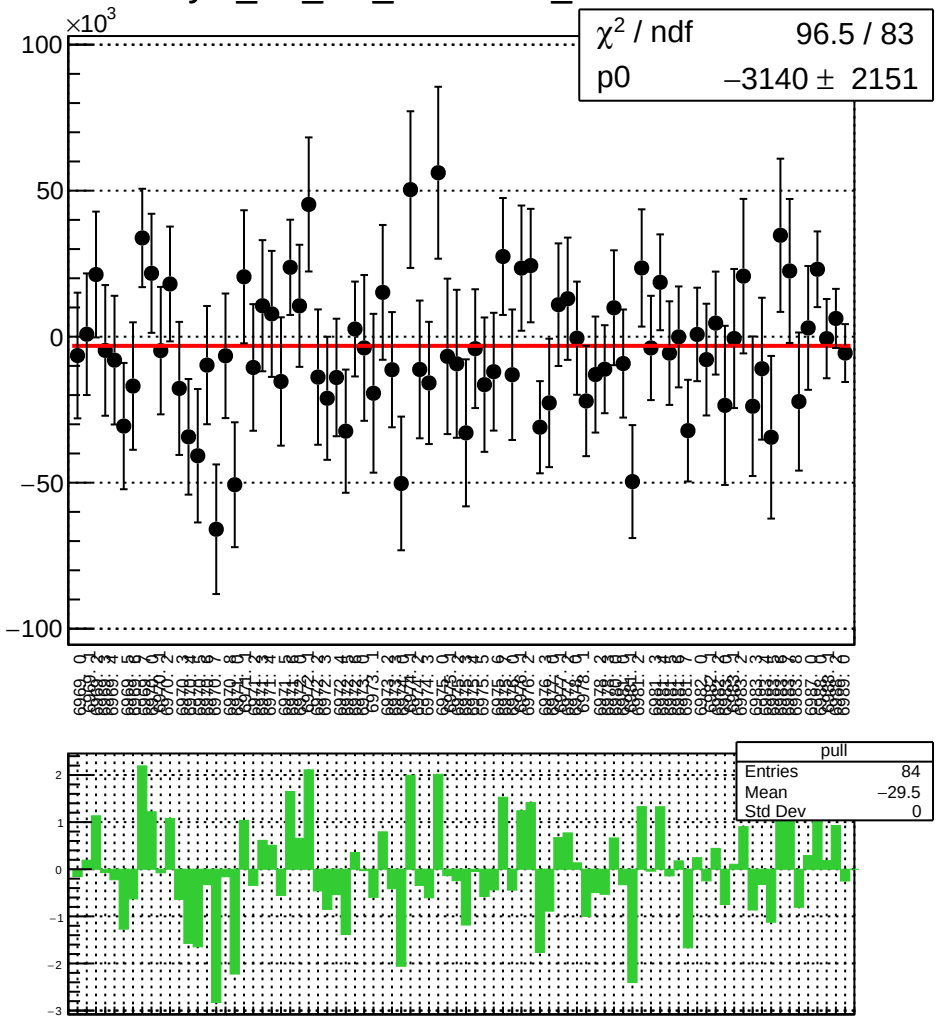

pull1D
Entries 84
Mean −0.02729
Std Dev 1.071

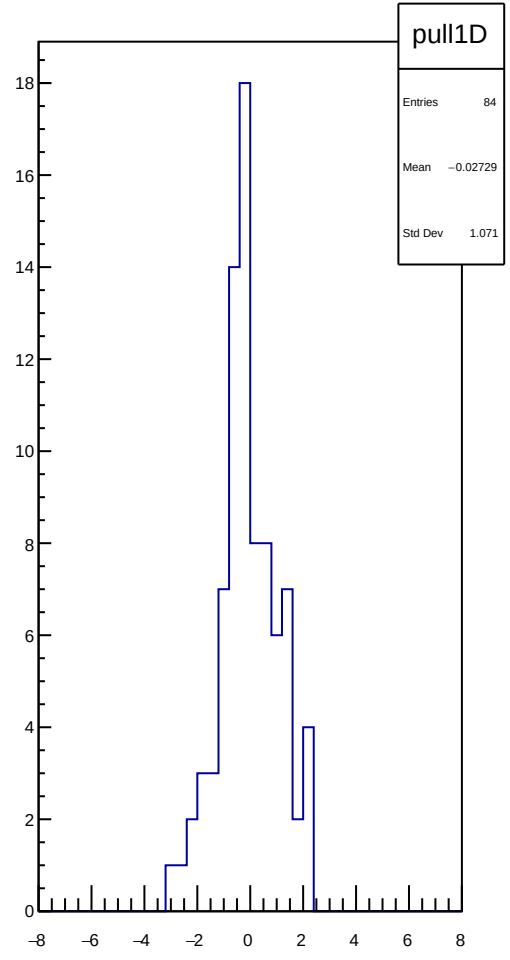

asym_usl_reg_correction_rms vs run
χ² / ndf 5.443e+04 / 83
p0 1936 ± 1.521
2800
2600
2400
2200
2000
1800
1600
1400
1200

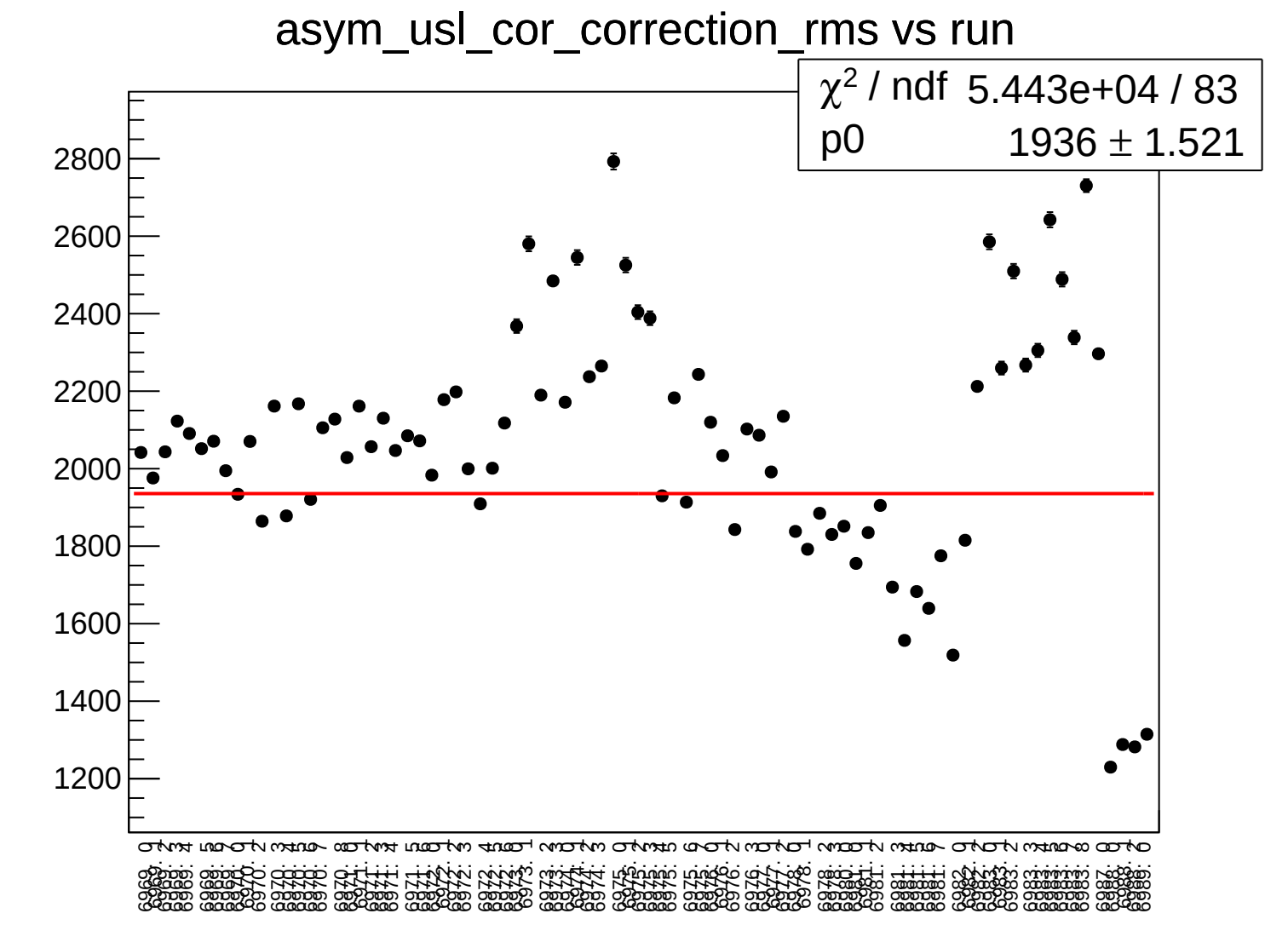

cor_asym_usl_mean vs run
χ² / ndf 109.3 / 83
p0 982.3 ± 1224
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −143.9
Std Dev 0
3
2
1
0
−1
−2
−3

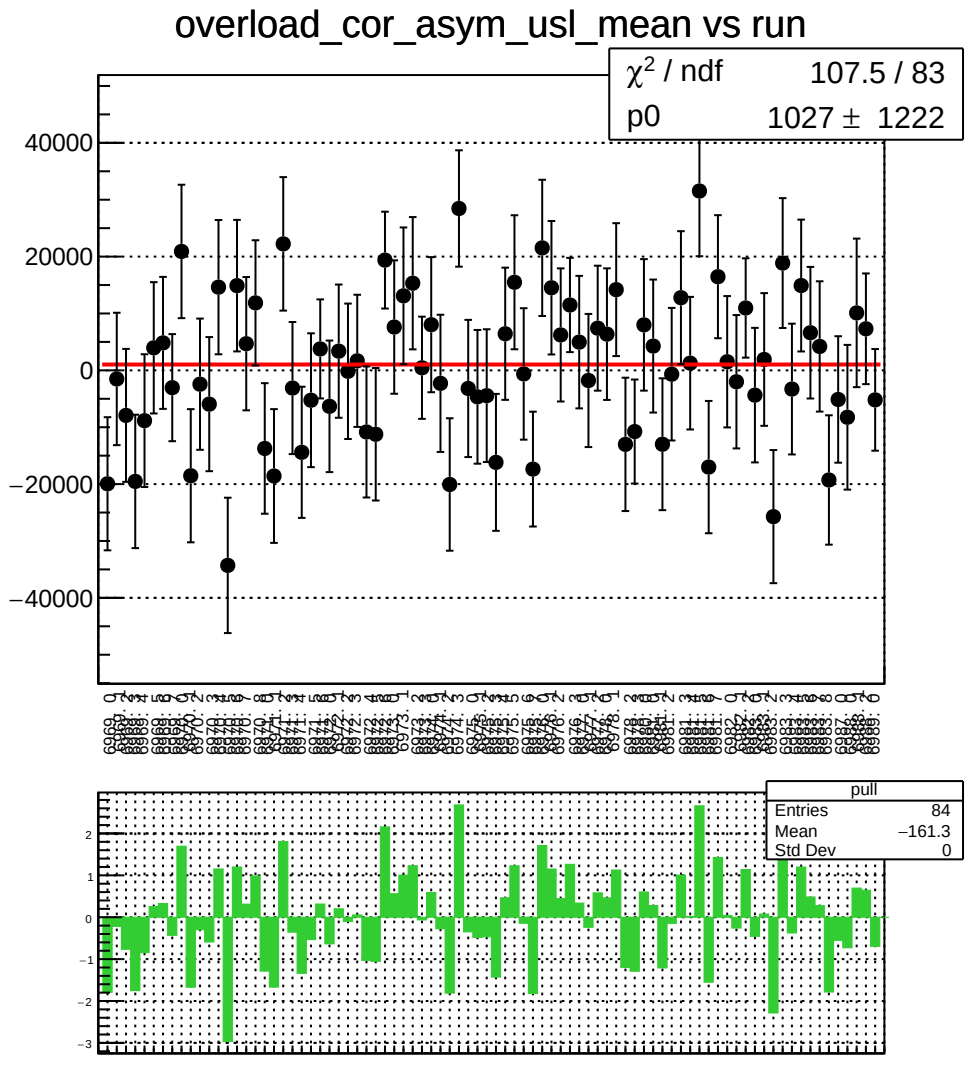

pull1D
Entries 84
Mean −0.01944
Std Dev 1.141
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

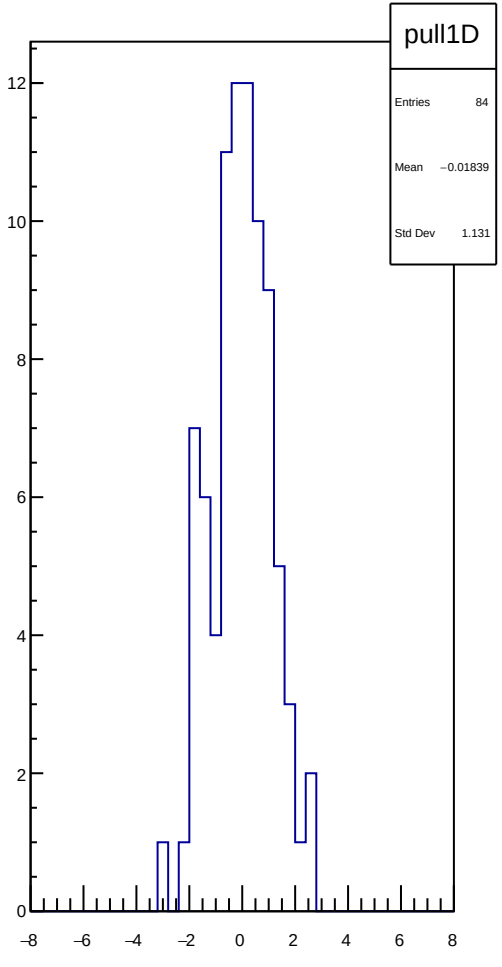

cor_asym_usl_rms vs run
χ² / ndf 1860 / 83
p0 1119 ± 0.8654
1350
1300
1250
1200
1150
1100
1050

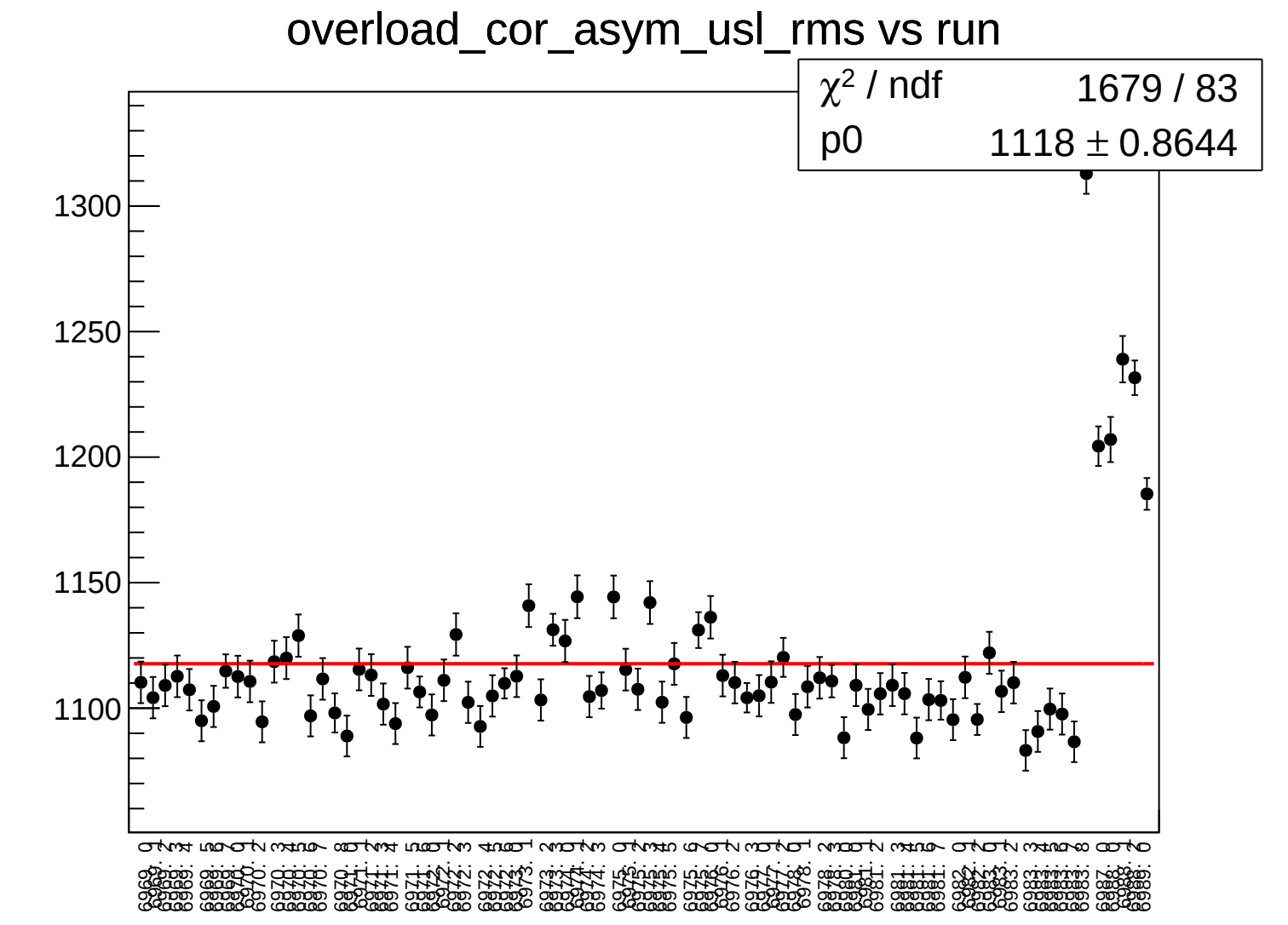

asym_usl_cor_correction_mean vs run
×10^3
χ² / ndf 96.5 / 83
p0 −3140 ± 2151
pull
Entries 84
Mean −29.5
Std Dev 0

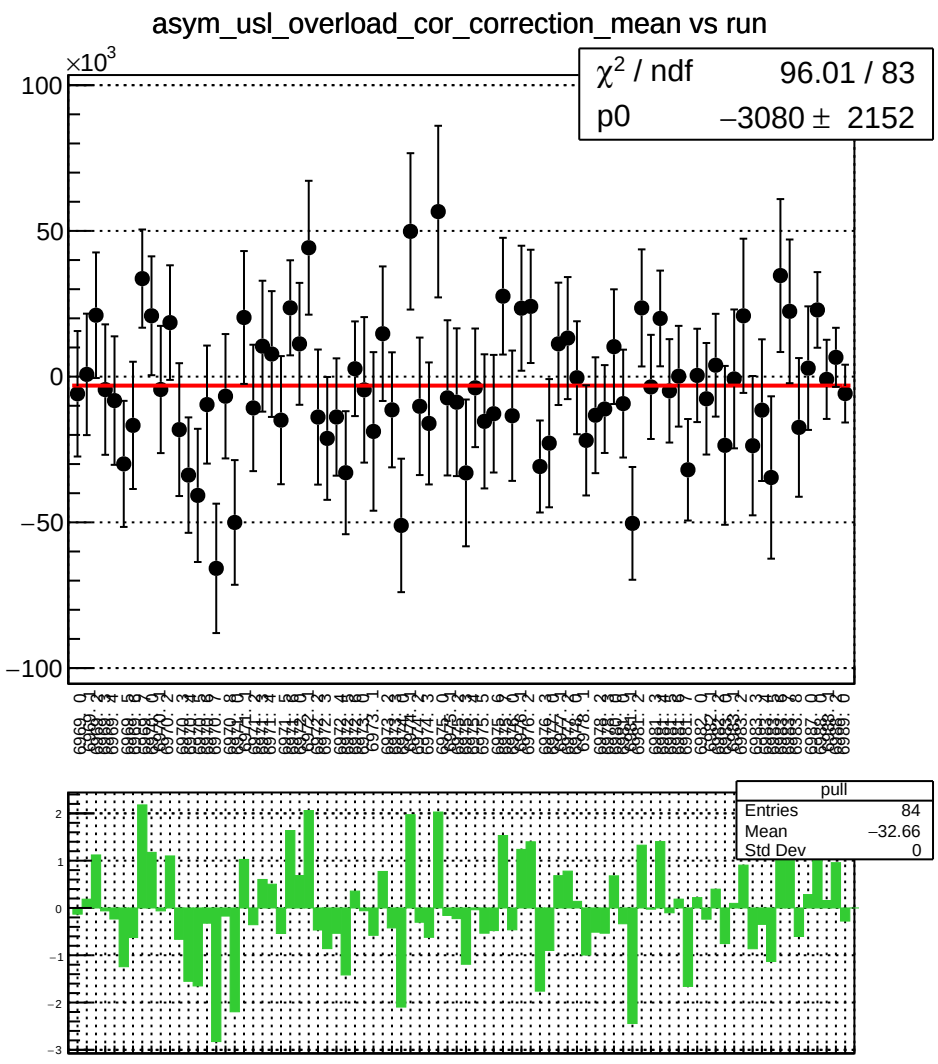

pull1D
Entries 84
Mean −0.02729
Std Dev 1.071

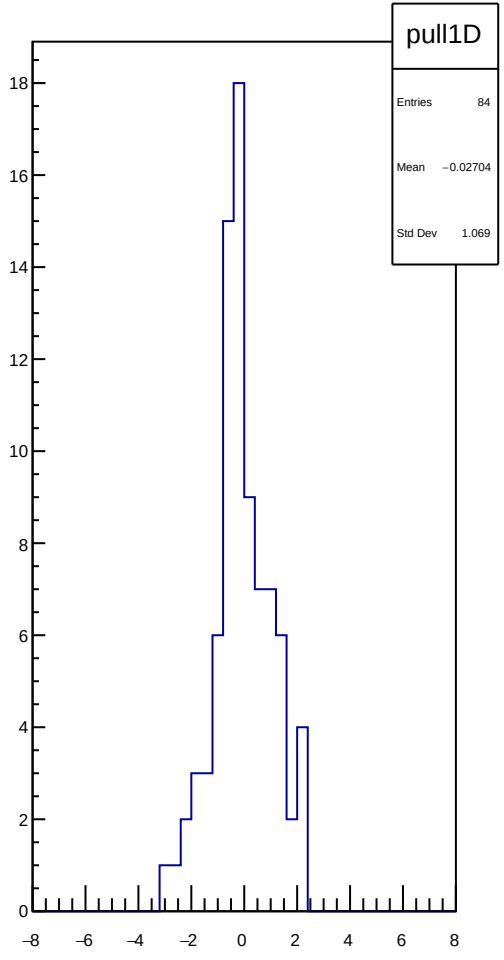

asym_usl_cor_correction_rms vs run
χ² / ndf 5.443e+04 / 83
p0 1936 ± 1.521
2800
2600
2400
2200
2000
1800
1600
1400
1200

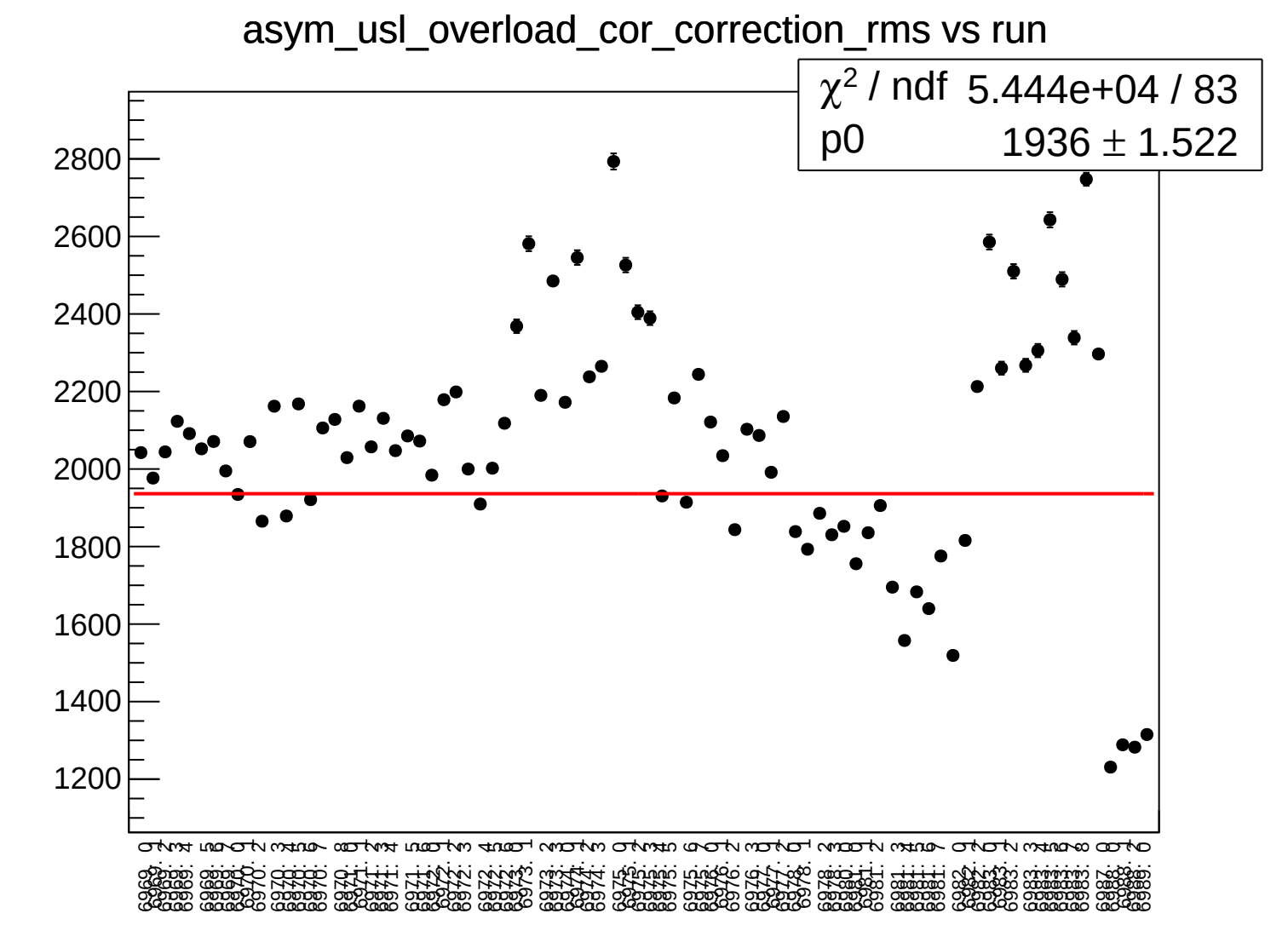

overload_cor_asym_usl_mean vs run
χ² / ndf 107.5 / 83
p0 1027 ± 1222
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −161.3
Std Dev 0
2
1
0
−1
−2
−3

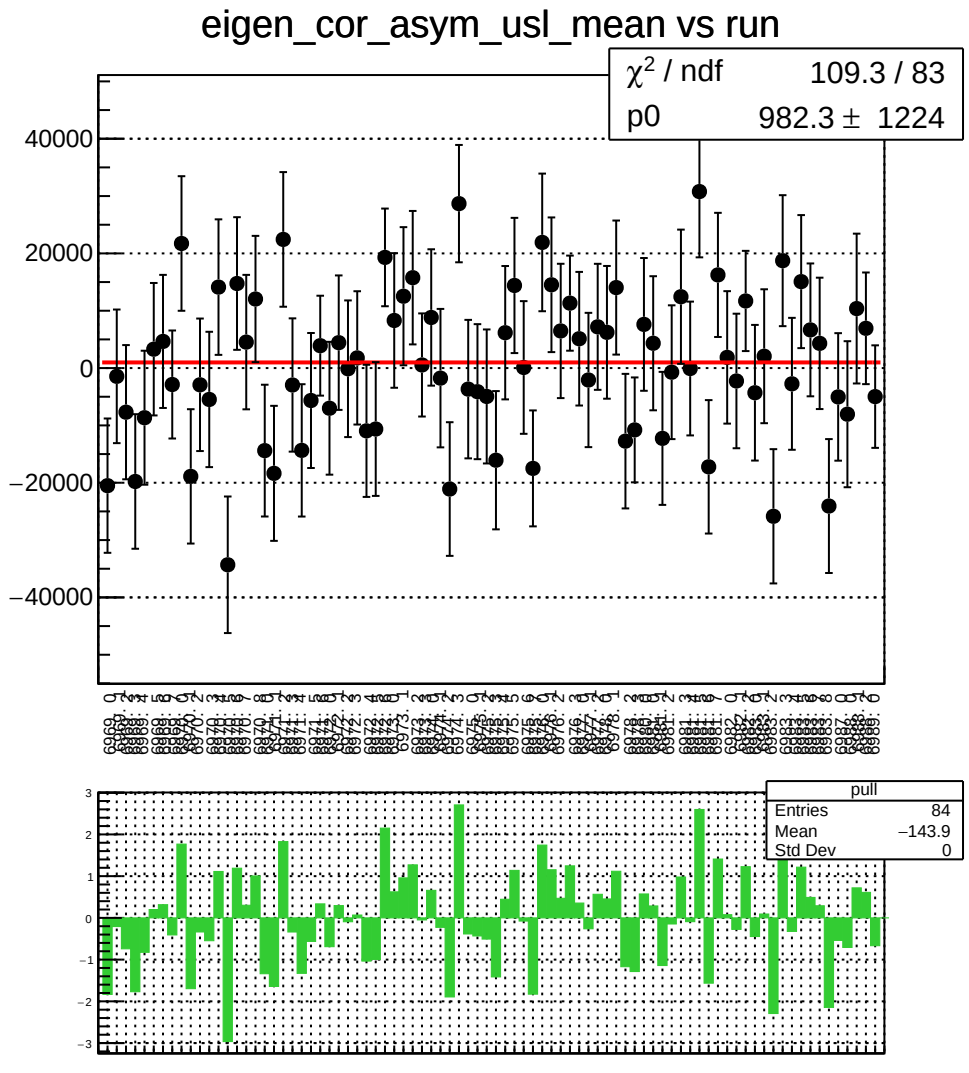

pull1D
Entries 84
Mean −0.01839
Std Dev 1.131
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

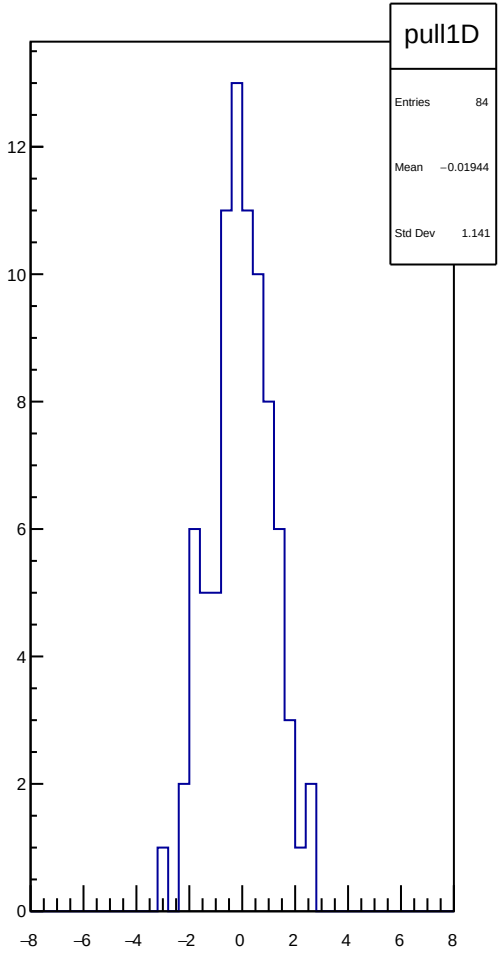

overload_cor_asym_usl_rms vs run
χ² / ndf 1679 / 83
p0 1118 ± 0.8644
1300
1250
1200
1150
1100

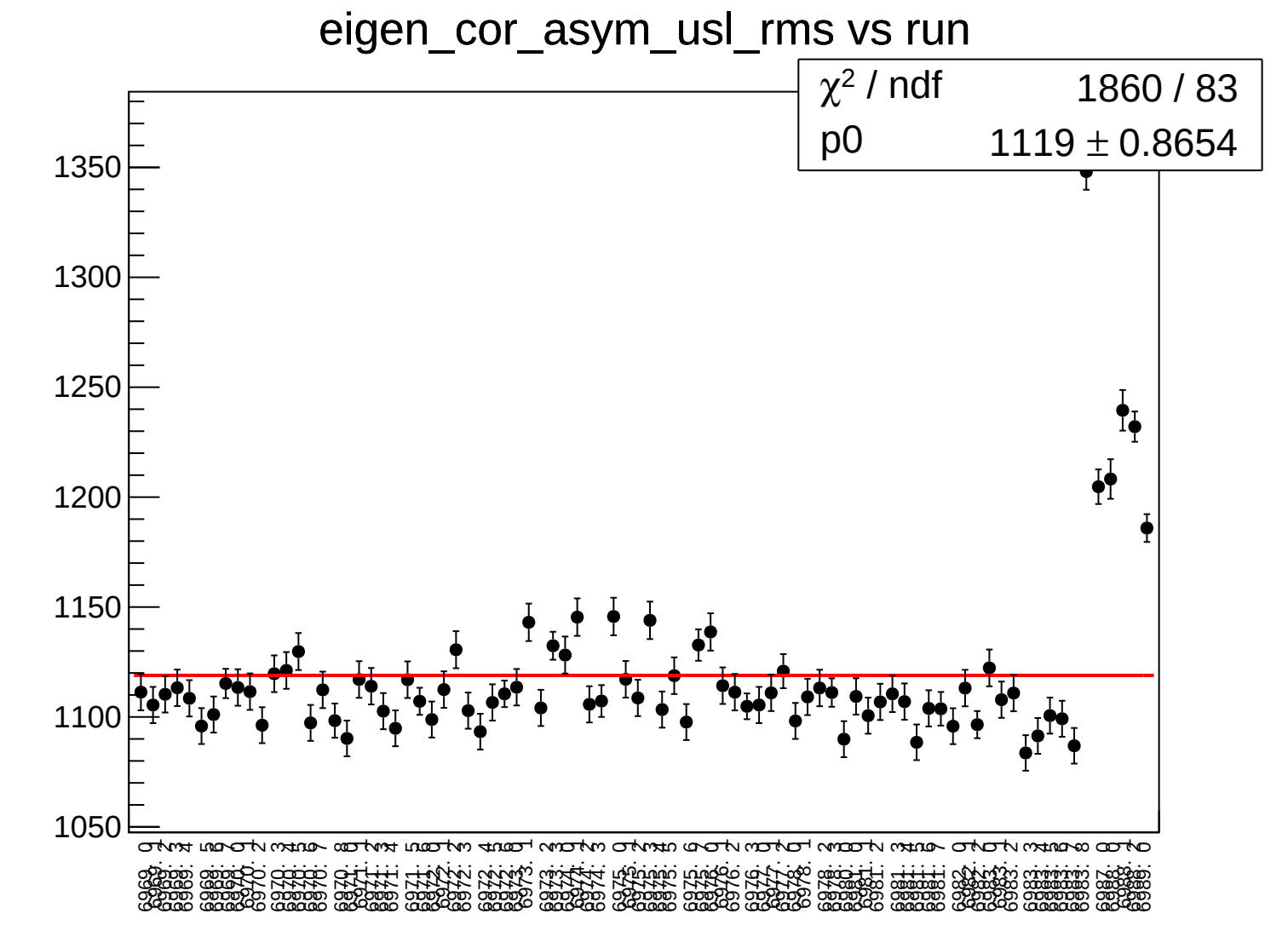

asym_usl_overload_cor_correction_mean vs run
×10^3
χ² / ndf 96.01 / 83
p0 −3080 ± 2152
100
50
0
−50
−100
pull
Entries 84
Mean −32.66
Std Dev 0
2
1
0
−1
−2
−3

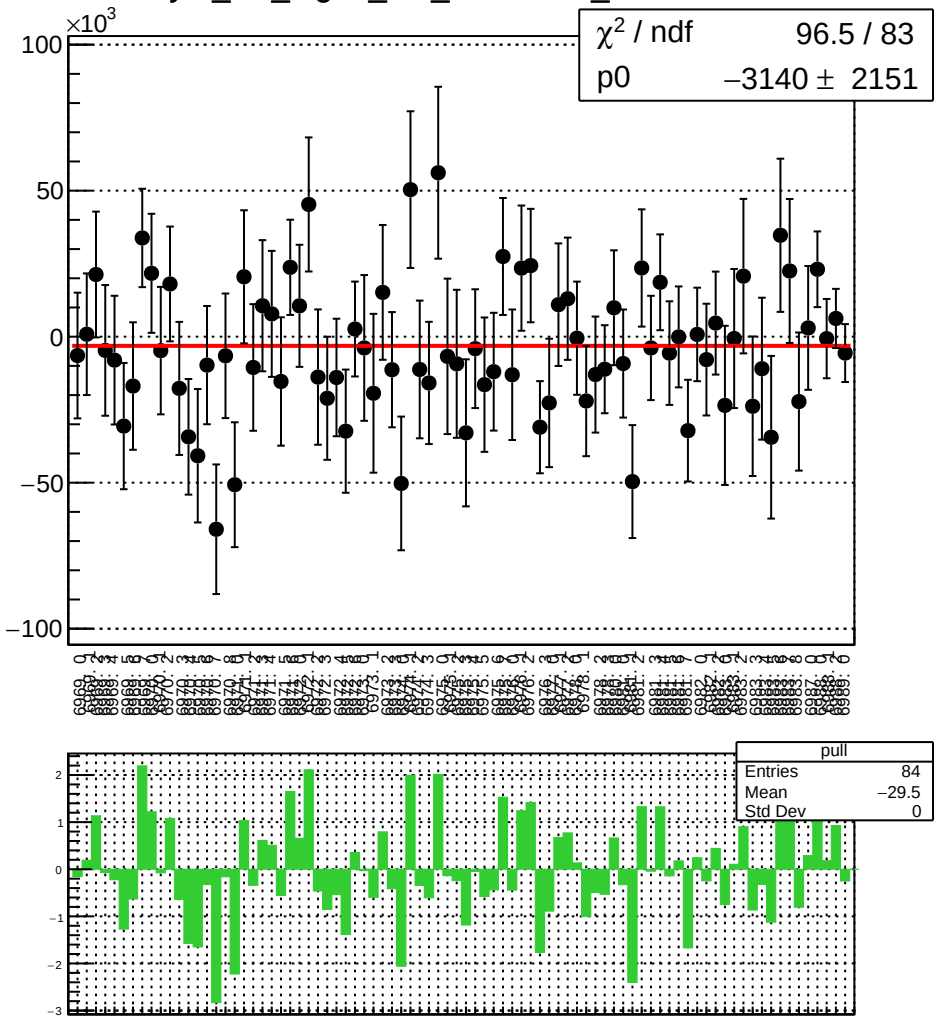

pull1D
Entries 84
Mean −0.02704
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

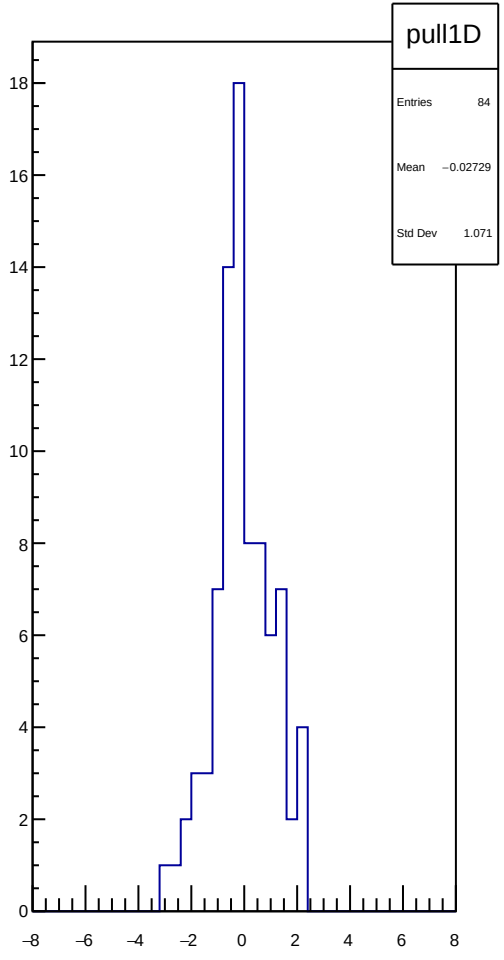

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 5.444e+04 / 83
p0 1936 ± 1.522
2800
2600
2400
2200
2000
1800
1600
1400
1200

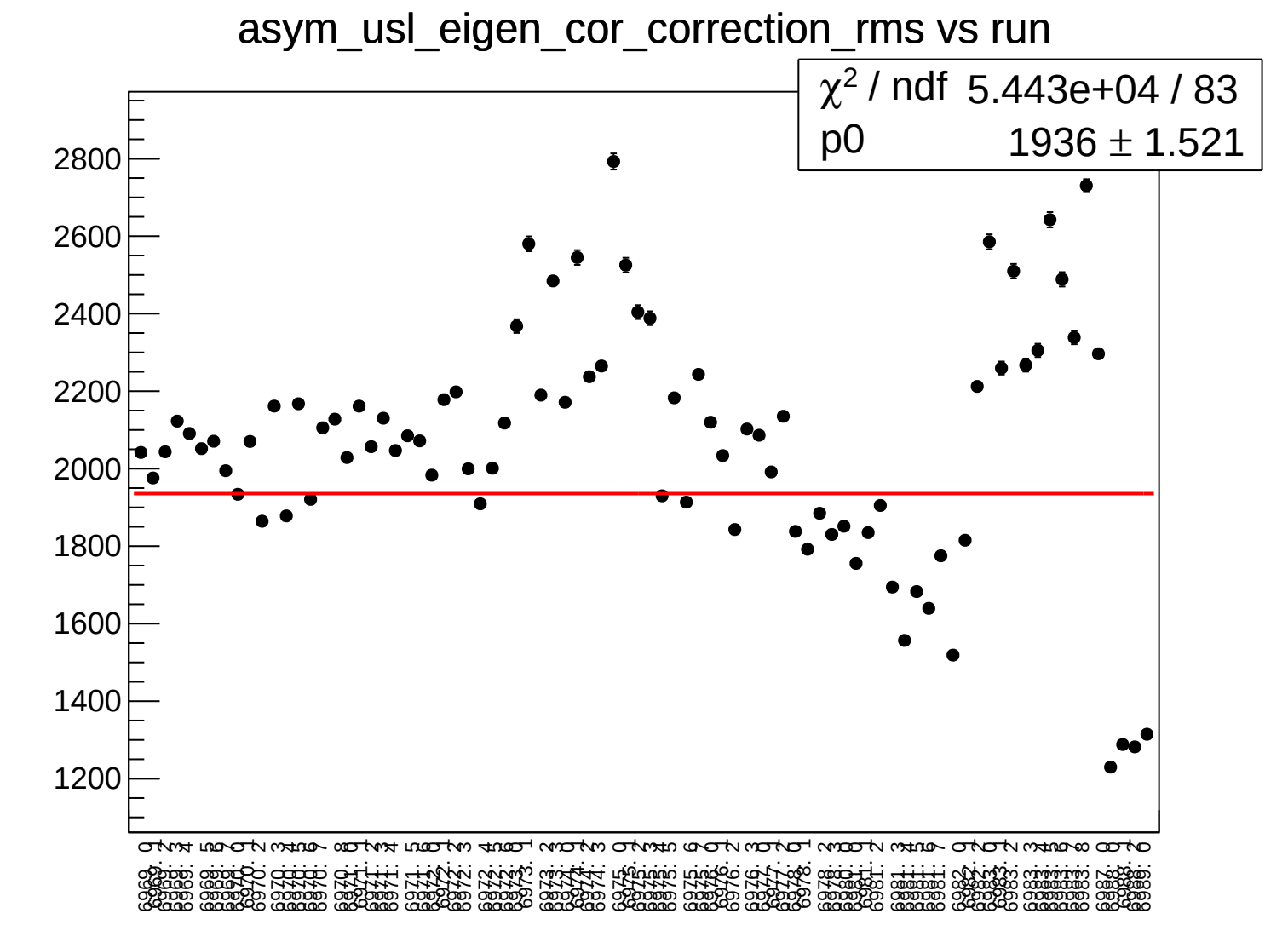

eigen_cor_asym_usl_mean vs run
χ² / ndf 109.3 / 83
p0 982.3 ± 1224
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −143.9
Std Dev 0
3
2
1
0
−1
−2
−3

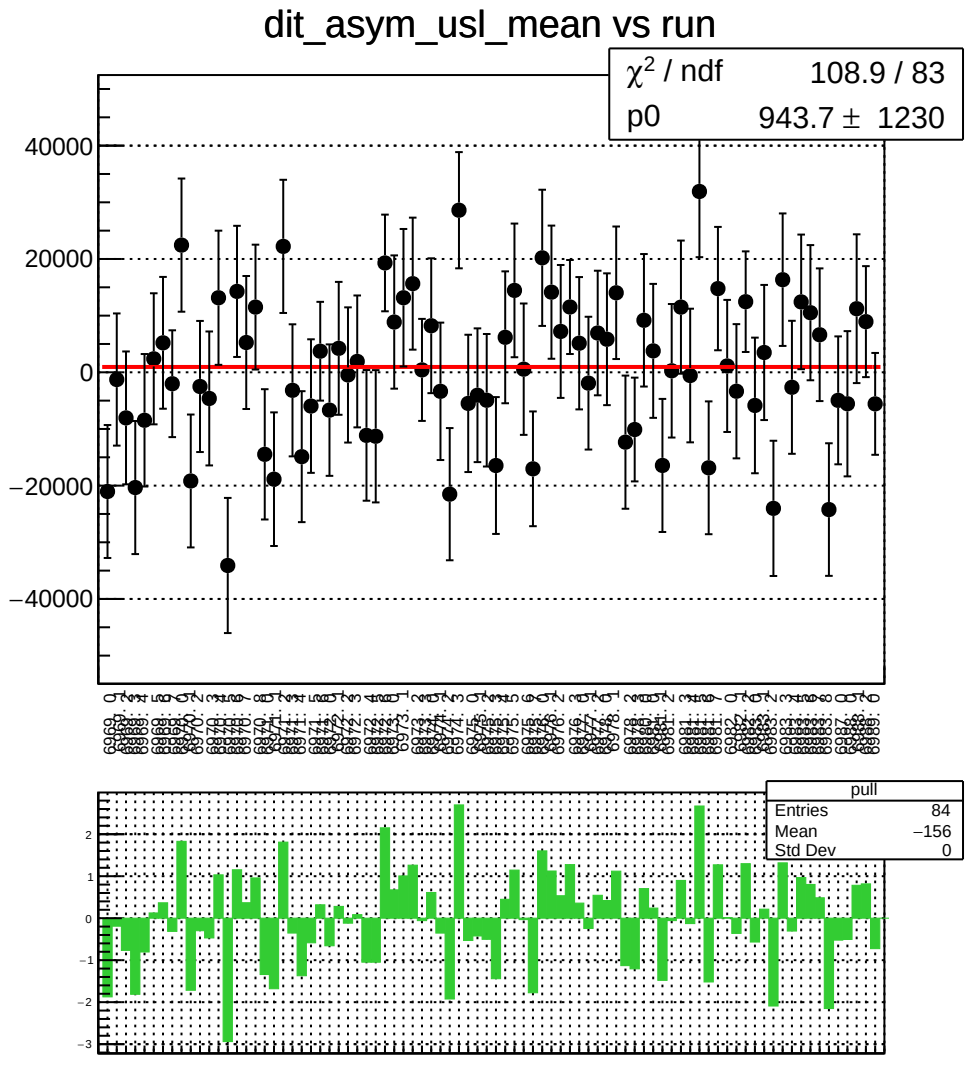

pull1D
Entries 84
Mean −0.01944
Std Dev 1.141
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

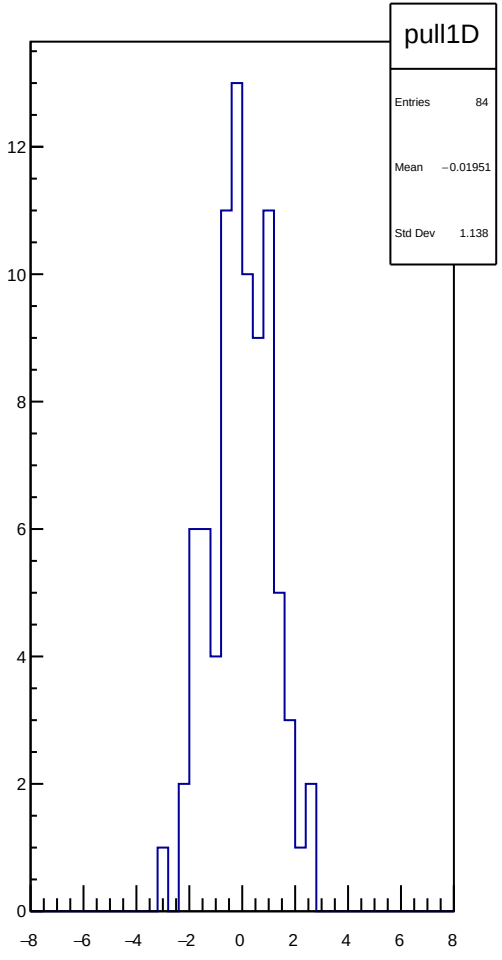

eigen_cor_asym_usl_rms vs run
χ² / ndf 1860 / 83
p0 1119 ± 0.8654
1350
1300
1250
1200
1150
1100
1050

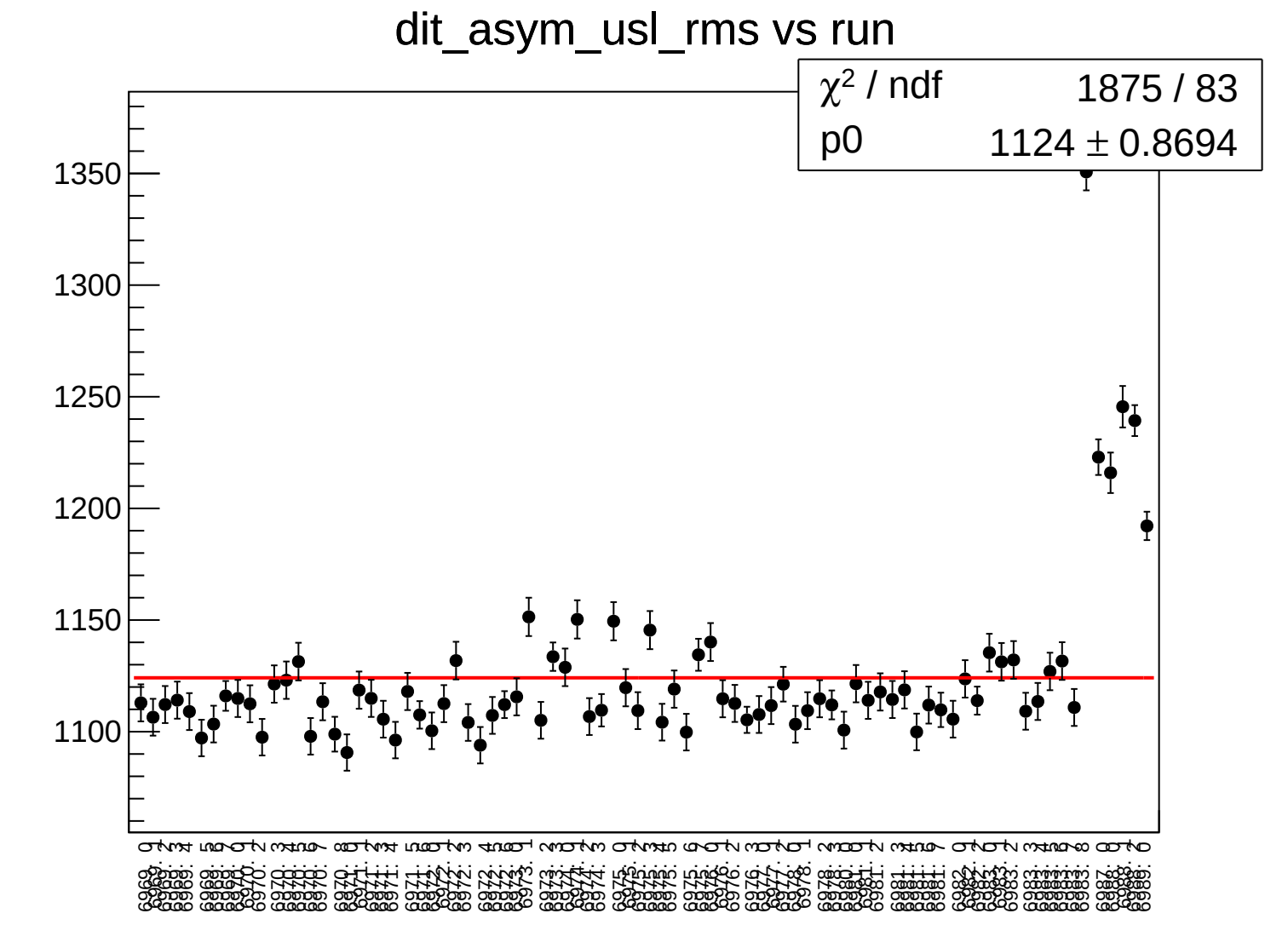

asym_usl_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.5 / 83
p0 −3140 ± 2151
pull
Entries 84
Mean −29.5
Std Dev 0

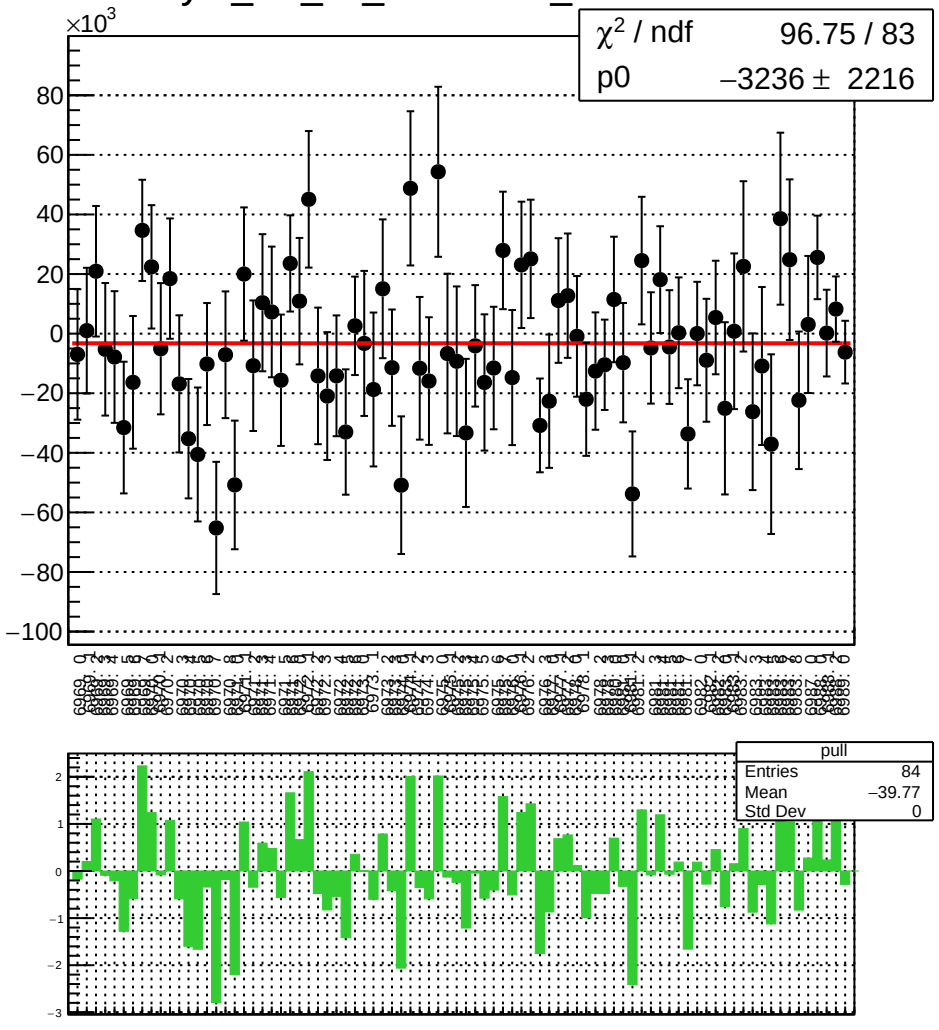

pull1D
Entries 84
Mean −0.02729
Std Dev 1.071

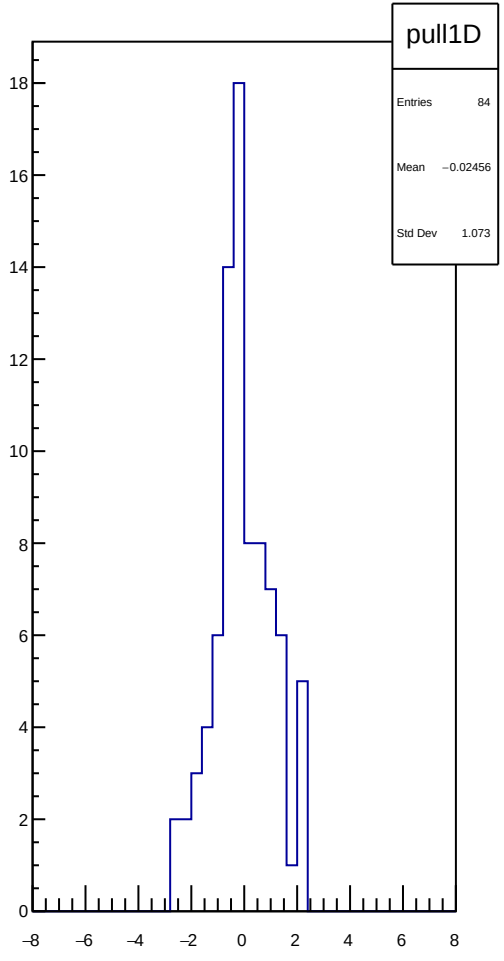

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 5.443e+04 / 83
p0 1936 ± 1.521
2800
2600
2400
2200
2000
1800
1600
1400
1200

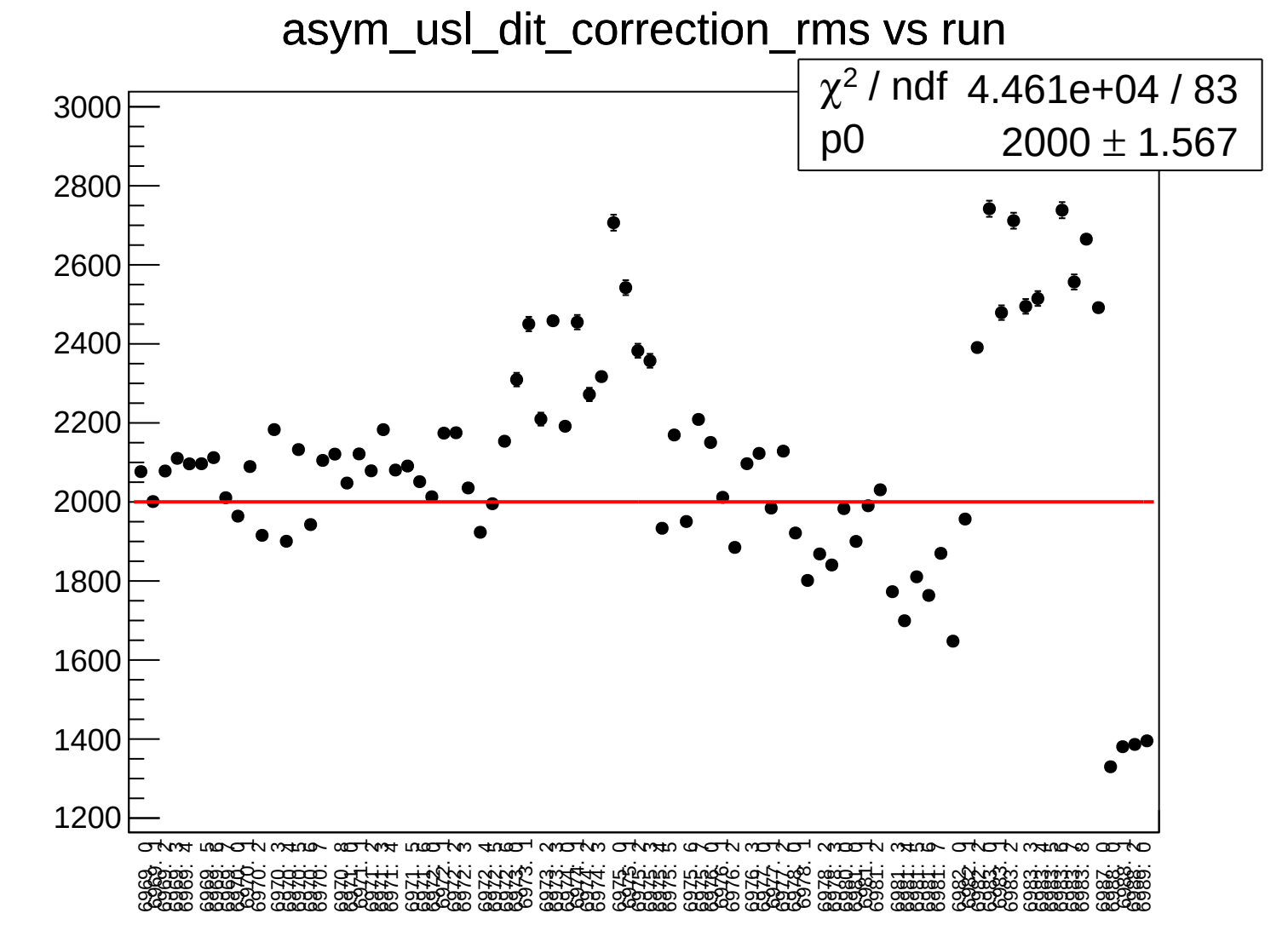

dit_asym_usl_mean vs run
χ² / ndf 108.9 / 83
p0 943.7 ± 1230
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −156
Std Dev 0
2
1
0
−1
−2
−3

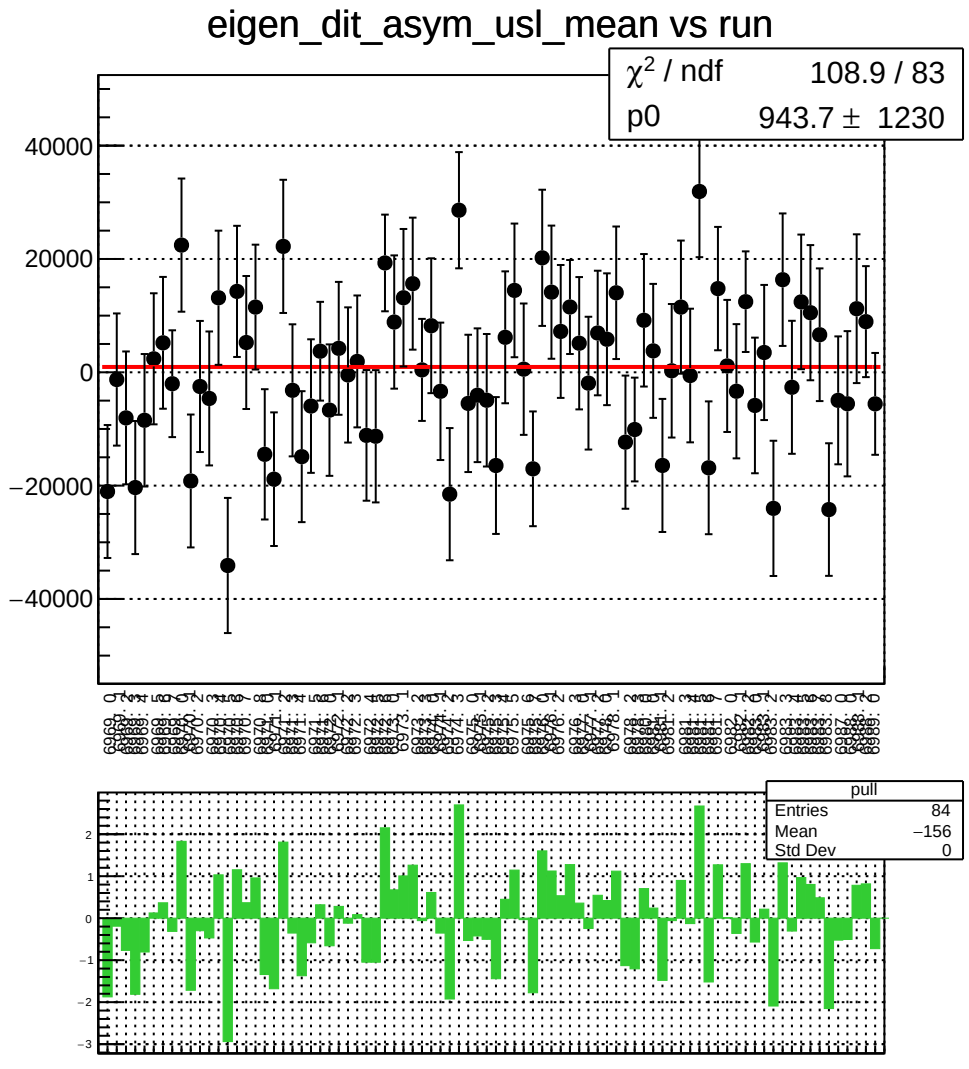

pull1D
Entries 84
Mean −0.01951
Std Dev 1.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

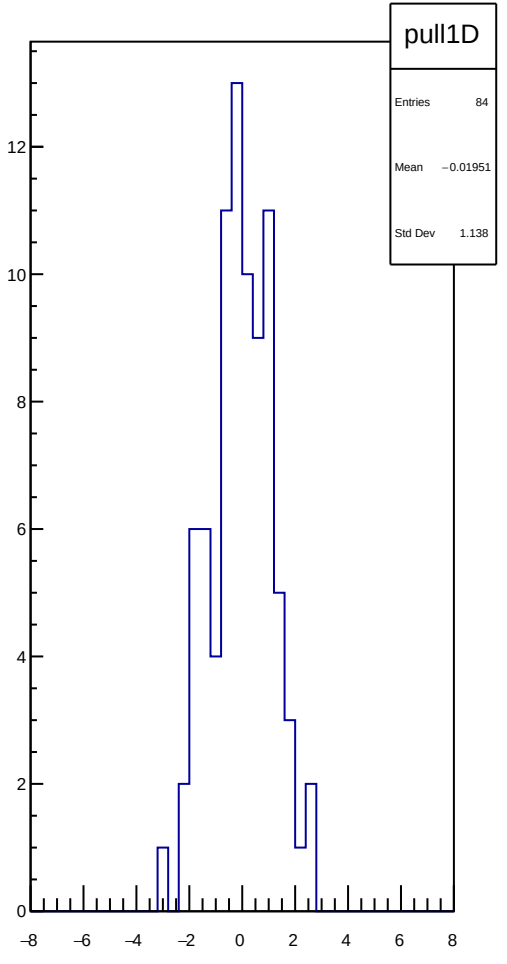

dit_asym_usl_rms vs run
χ² / ndf 1875 / 83
p0 1124 ± 0.8694
1350
1300
1250
1200
1150
1100

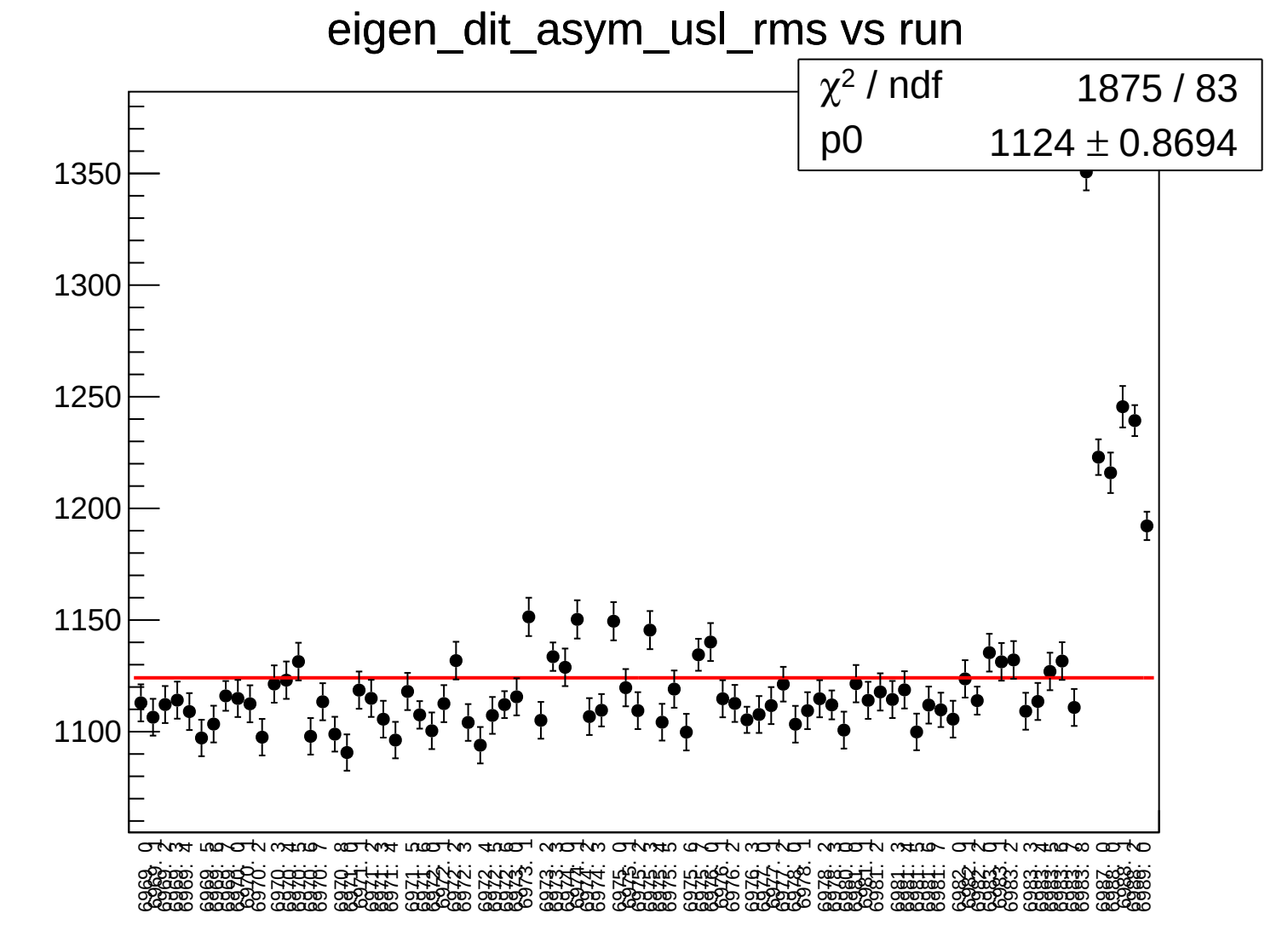

asym_usl_dit_correction_mean vs run
×10^3
χ² / ndf 96.75 / 83
p0 −3236 ± 2216
pull
Entries 84
Mean −39.77
Std Dev 0

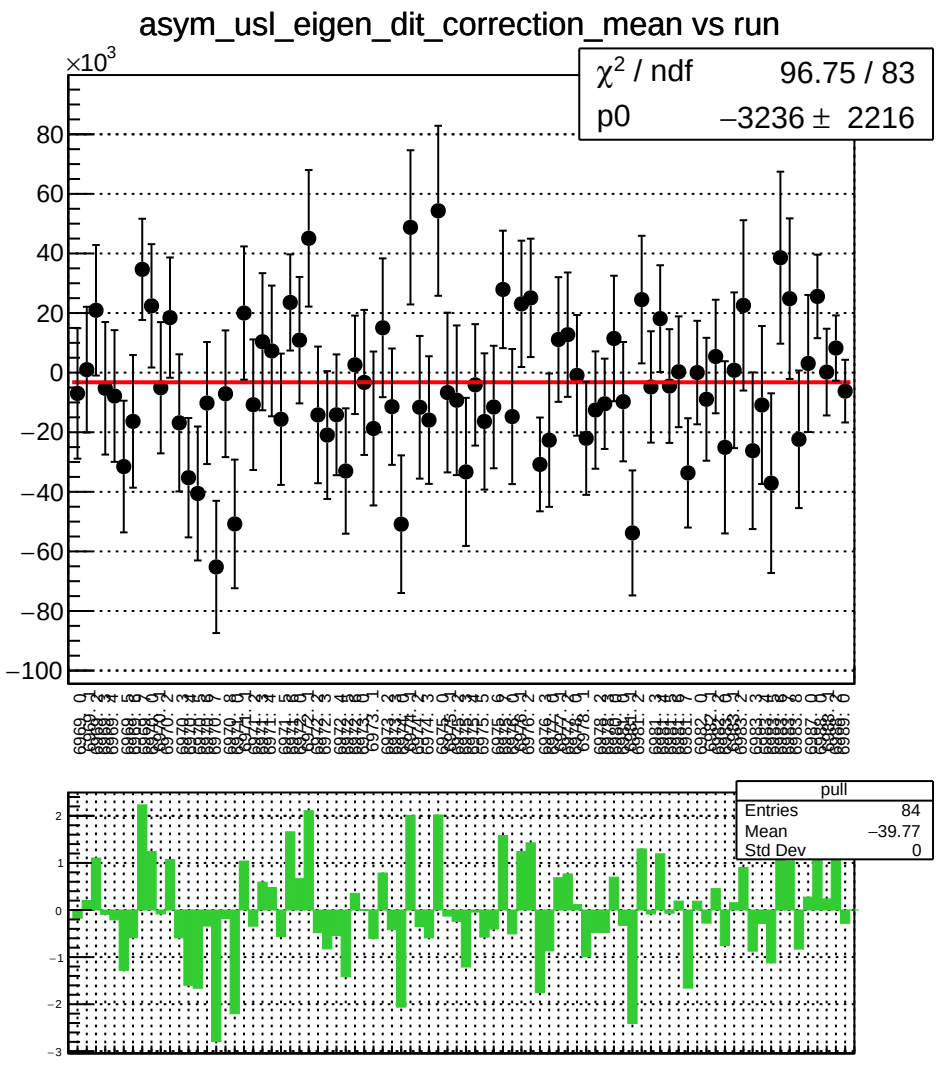

pull1D
Entries 84
Mean −0.02456
Std Dev 1.073

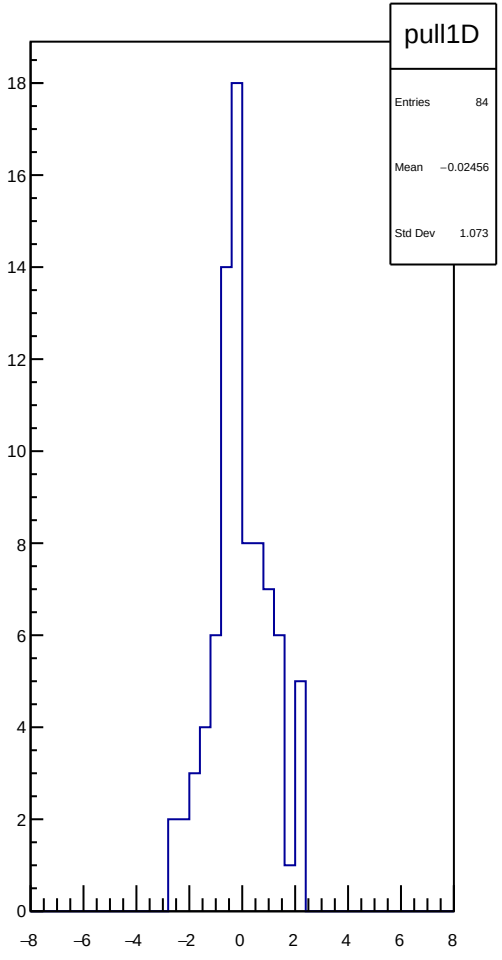

asym_usl_dit_correction_rms vs run
χ² / ndf 4.461e+04 / 83
p0 2000 ± 1.567
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

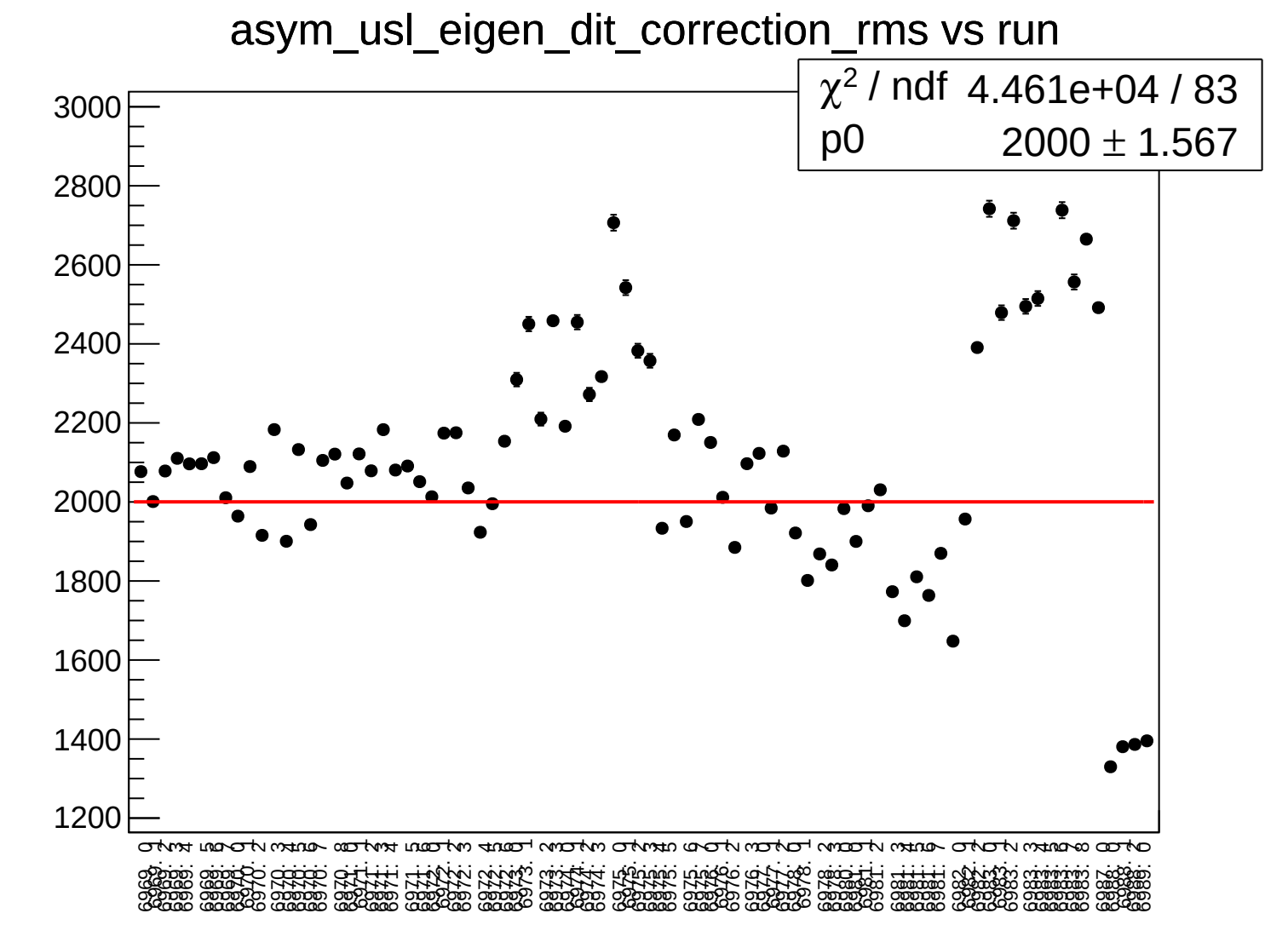

eigen_dit_asym_usl_mean vs run
χ² / ndf 108.9 / 83
p0 943.7 ± 1230
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −156
Std Dev 0
2
1
0
−1
−2
−3

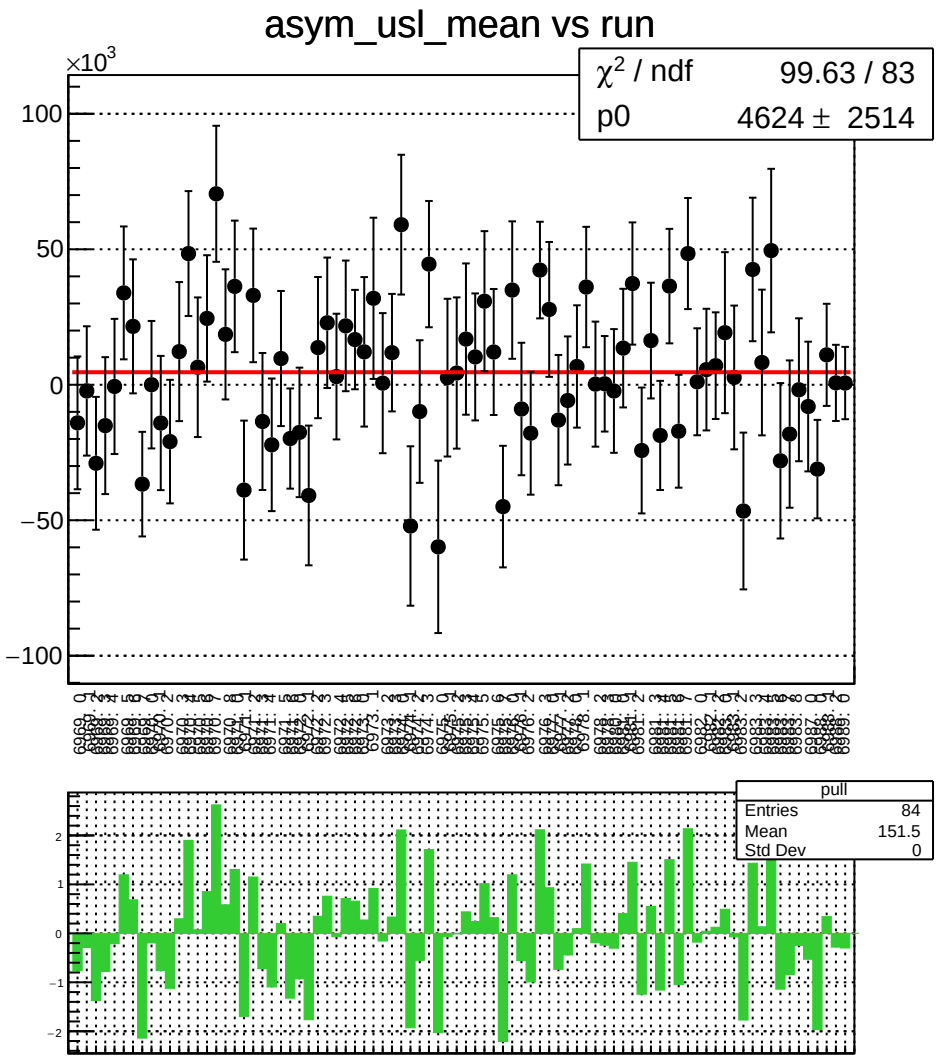

pull1D
Entries 84
Mean −0.01951
Std Dev 1.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

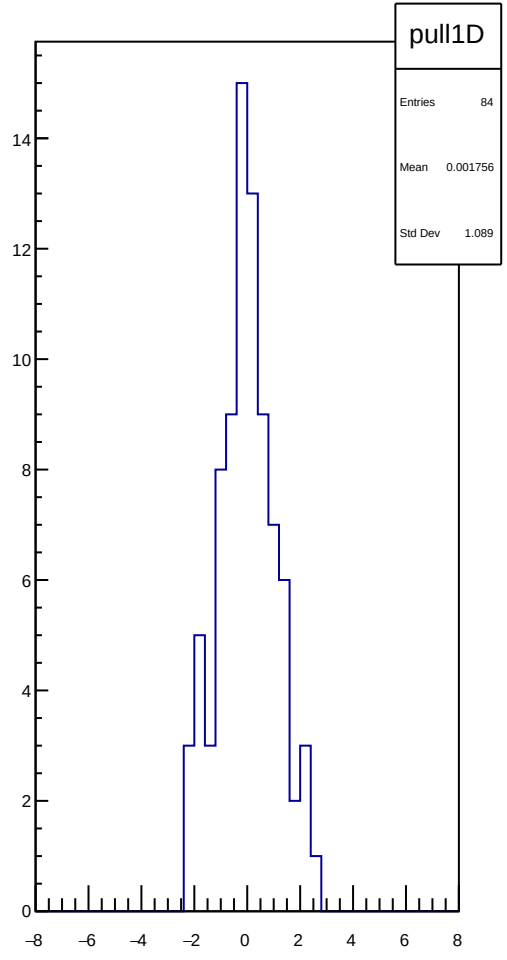

eigen_dit_asym_usl_rms vs run
χ² / ndf 1875 / 83
p0 1124 ± 0.8694
1350
1300
1250
1200
1150
1100

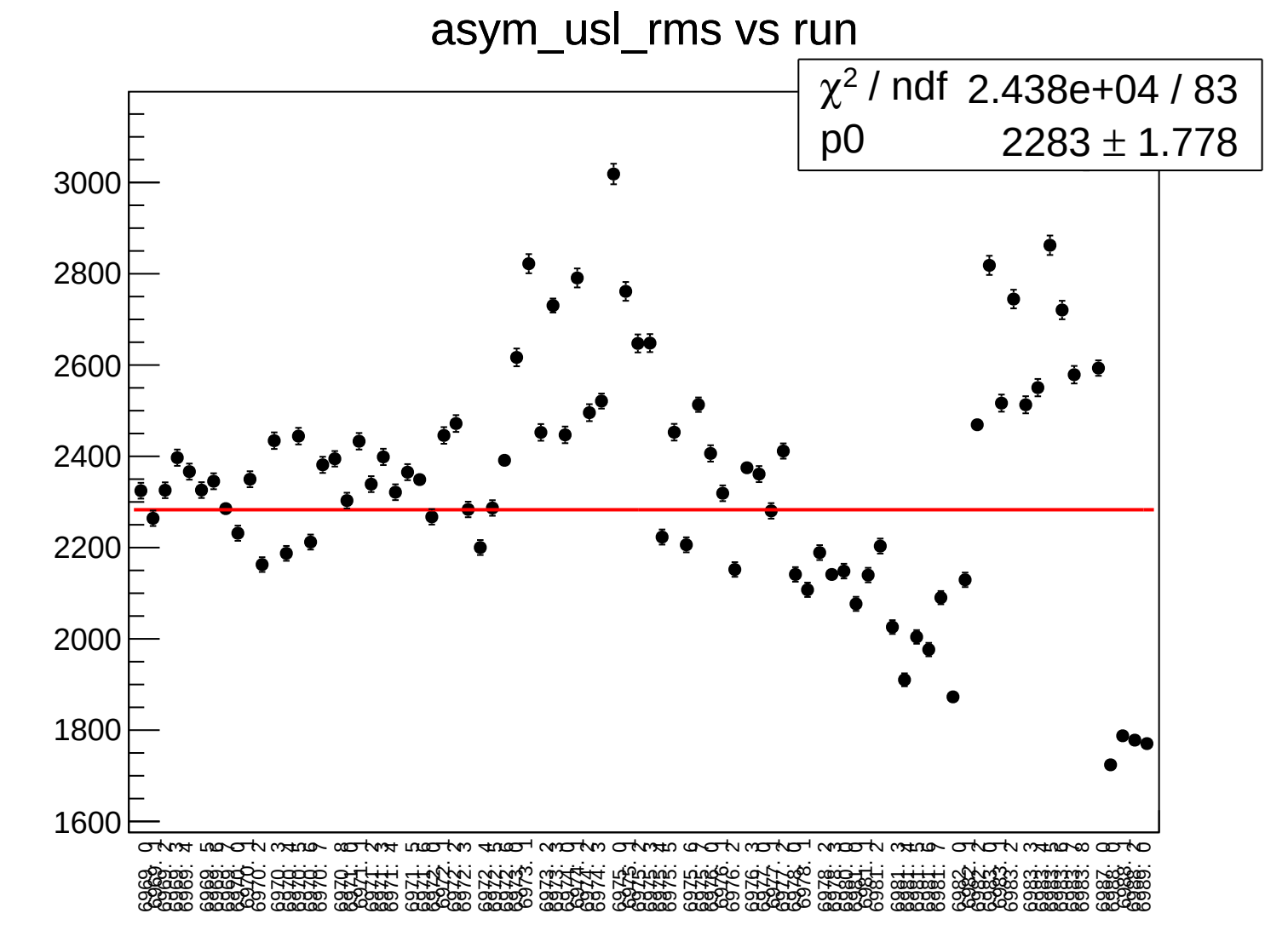

asym_usl_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.75 / 83
p0 −3236 ± 2216
pull
Entries 84
Mean −39.77
Std Dev 0

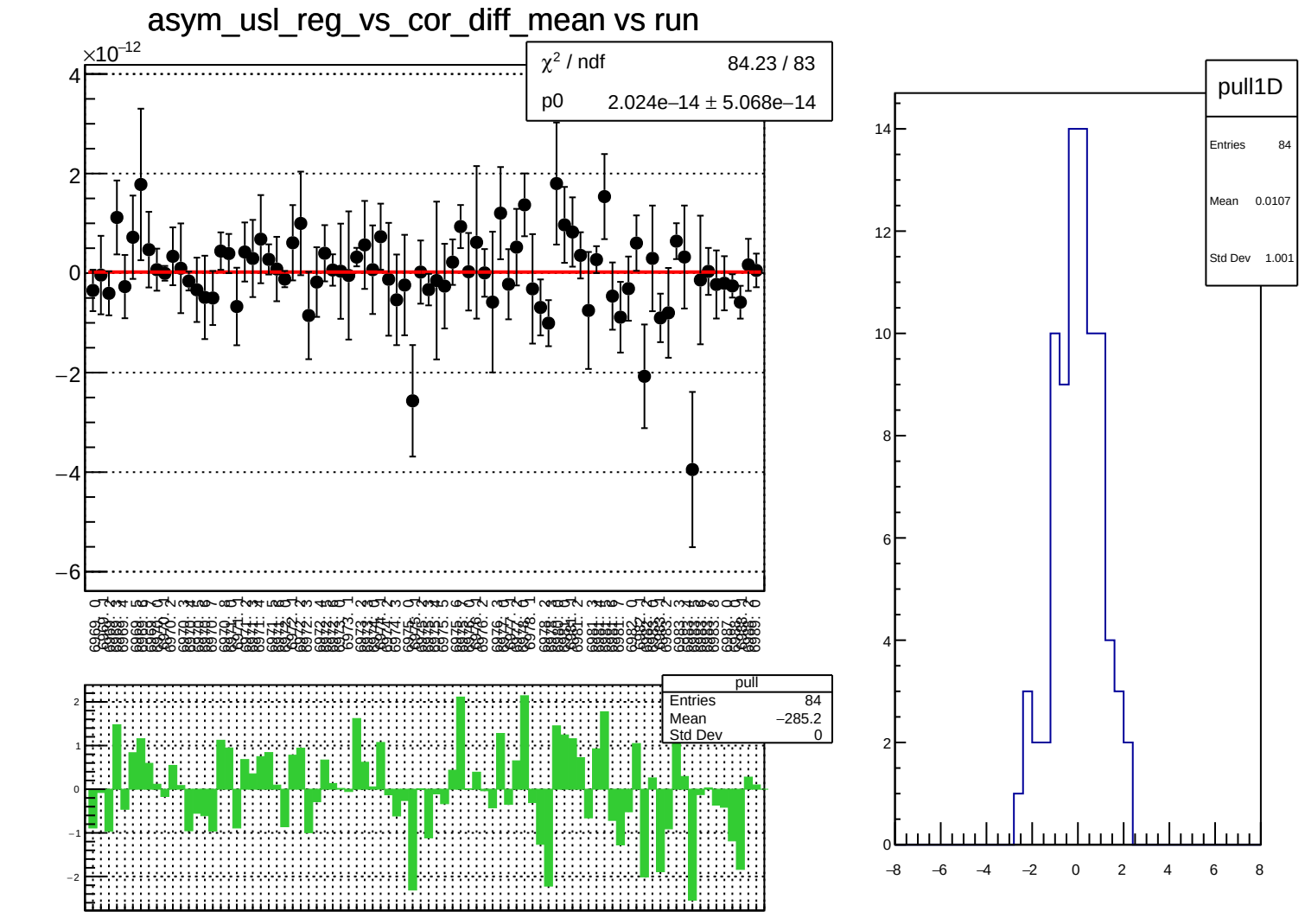

pull1D
Entries 84
Mean −0.02456
Std Dev 1.073

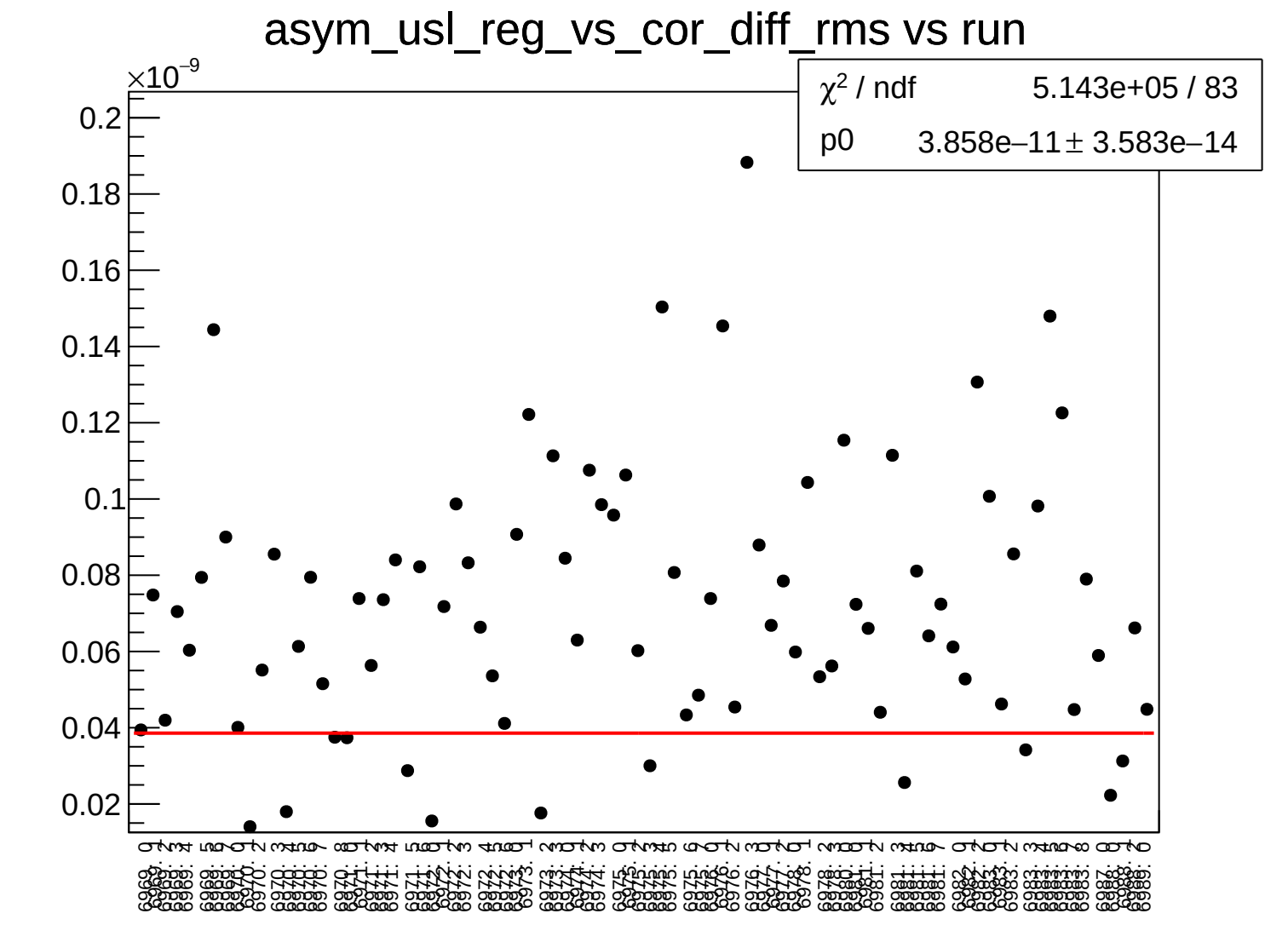

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 4.461e+04 / 83
p0 2000 ± 1.567
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

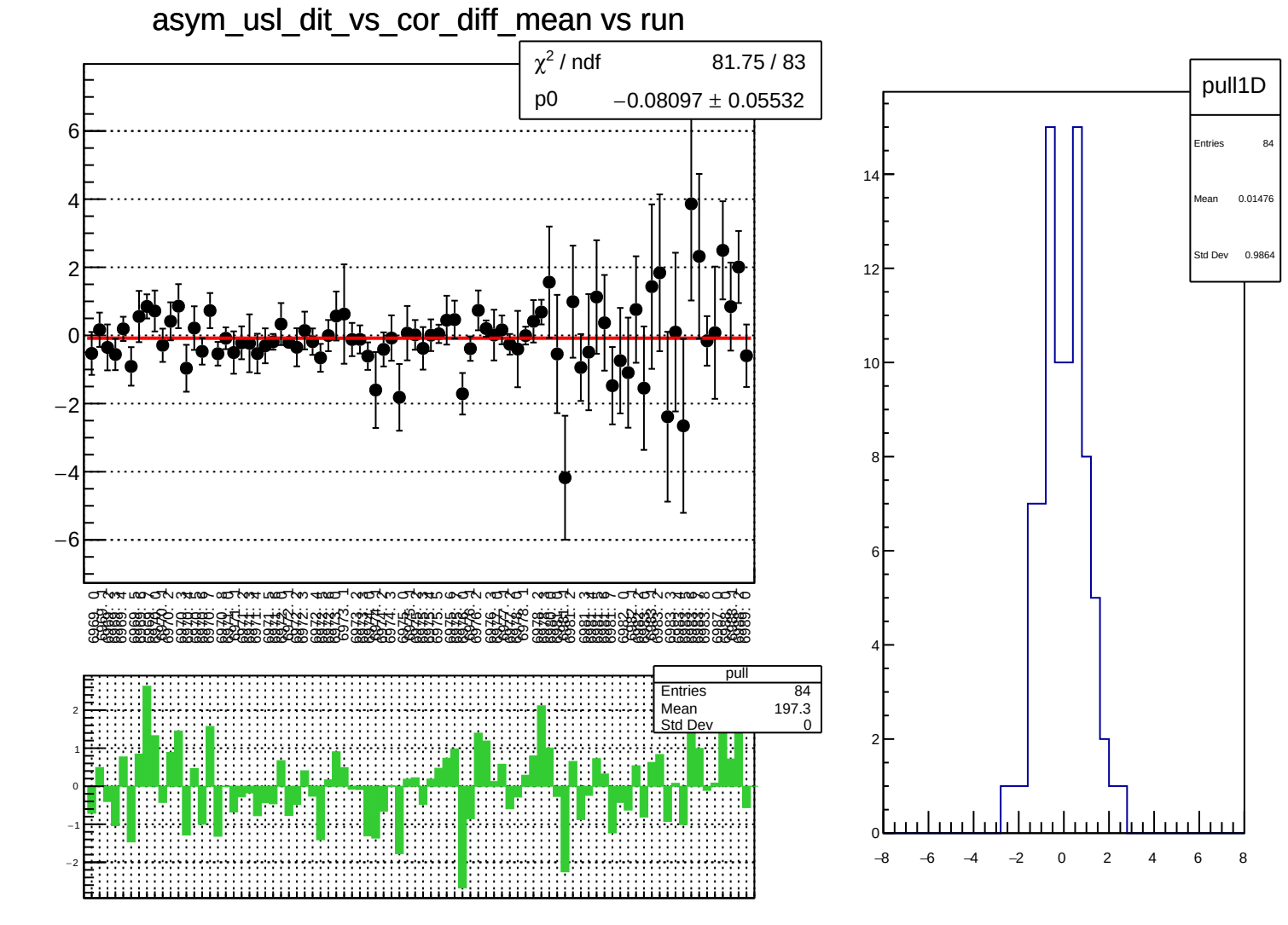

asym_usl_mean vs run
×10^3
χ² / ndf 99.63 / 83
p0 4624 ± 2514
100
50
0
−50
−100
pull
Entries 84
Mean 151.5
Std Dev 0
2
1
0
−1
−2

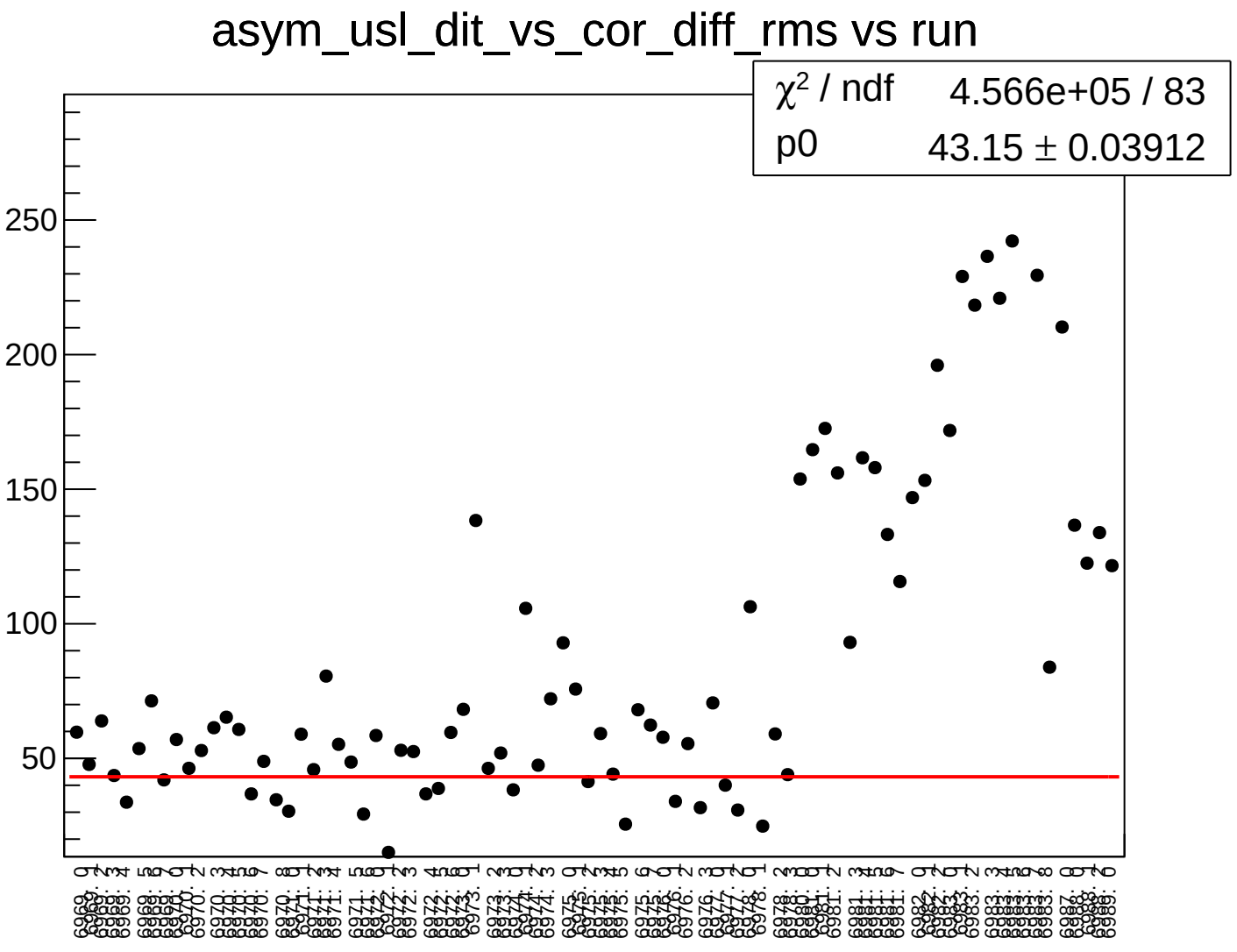

pull1D
Entries 84
Mean 0.001756
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

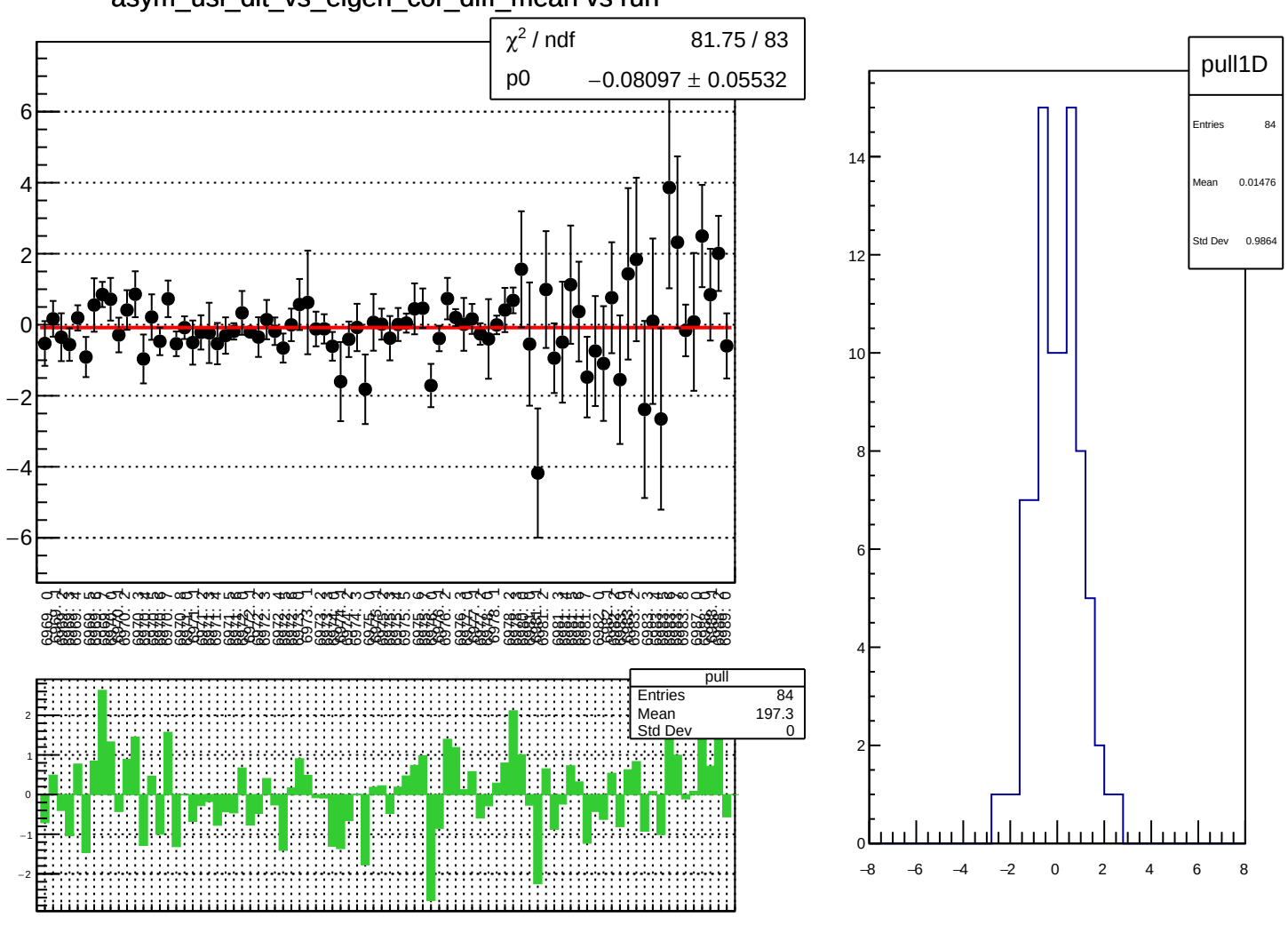

asym_usl_rms vs run
χ² / ndf 2.438e+04 / 83
p0 2283 ± 1.778
3000
2800
2600
2400
2200
2000
1800
1600

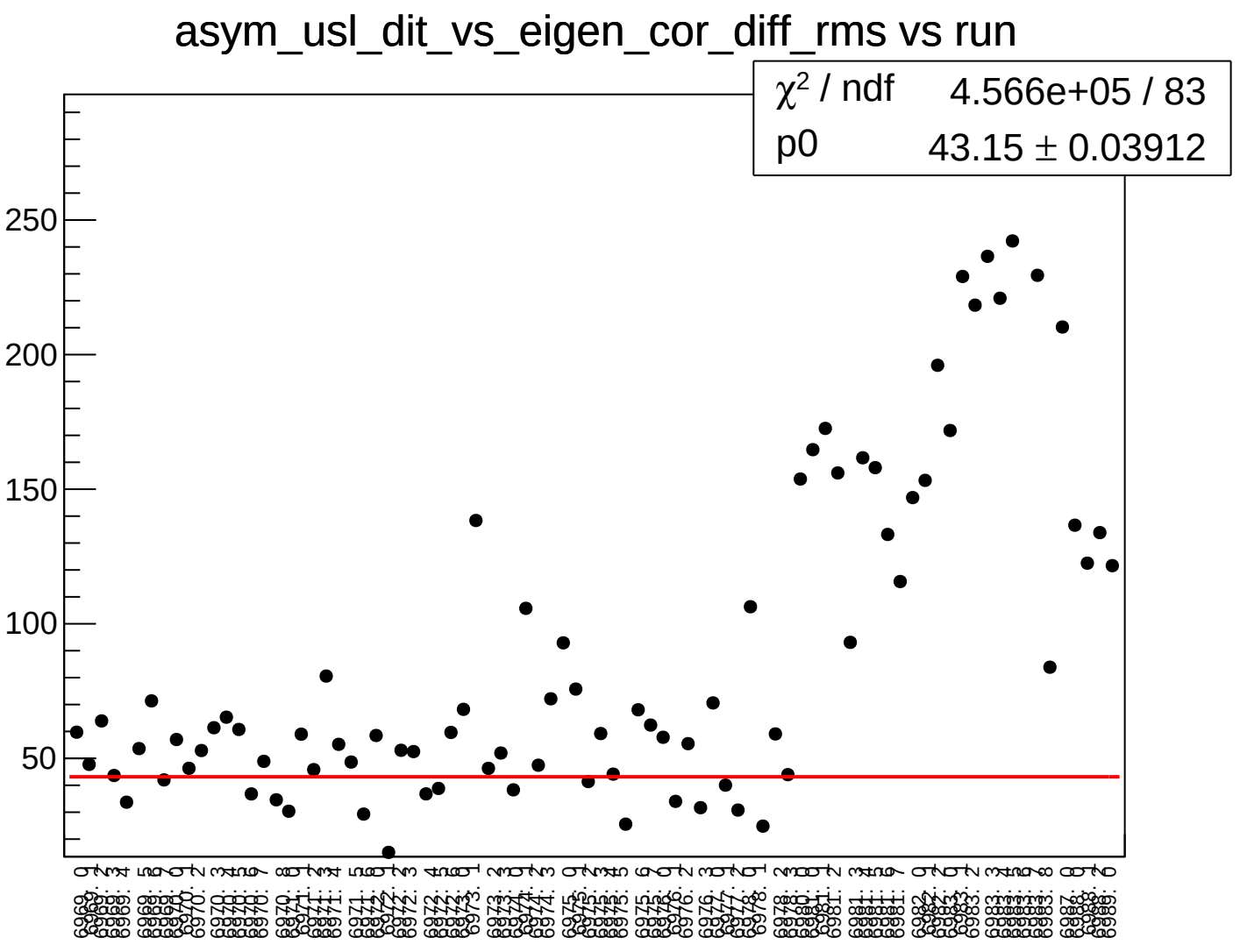

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.23 / 83
p0 2.024e−14 ± 5.068e−14
pull
Entries 84
Mean −285.2
Std Dev 0
pull1D
Entries 84
Mean 0.0107
Std Dev 1.001

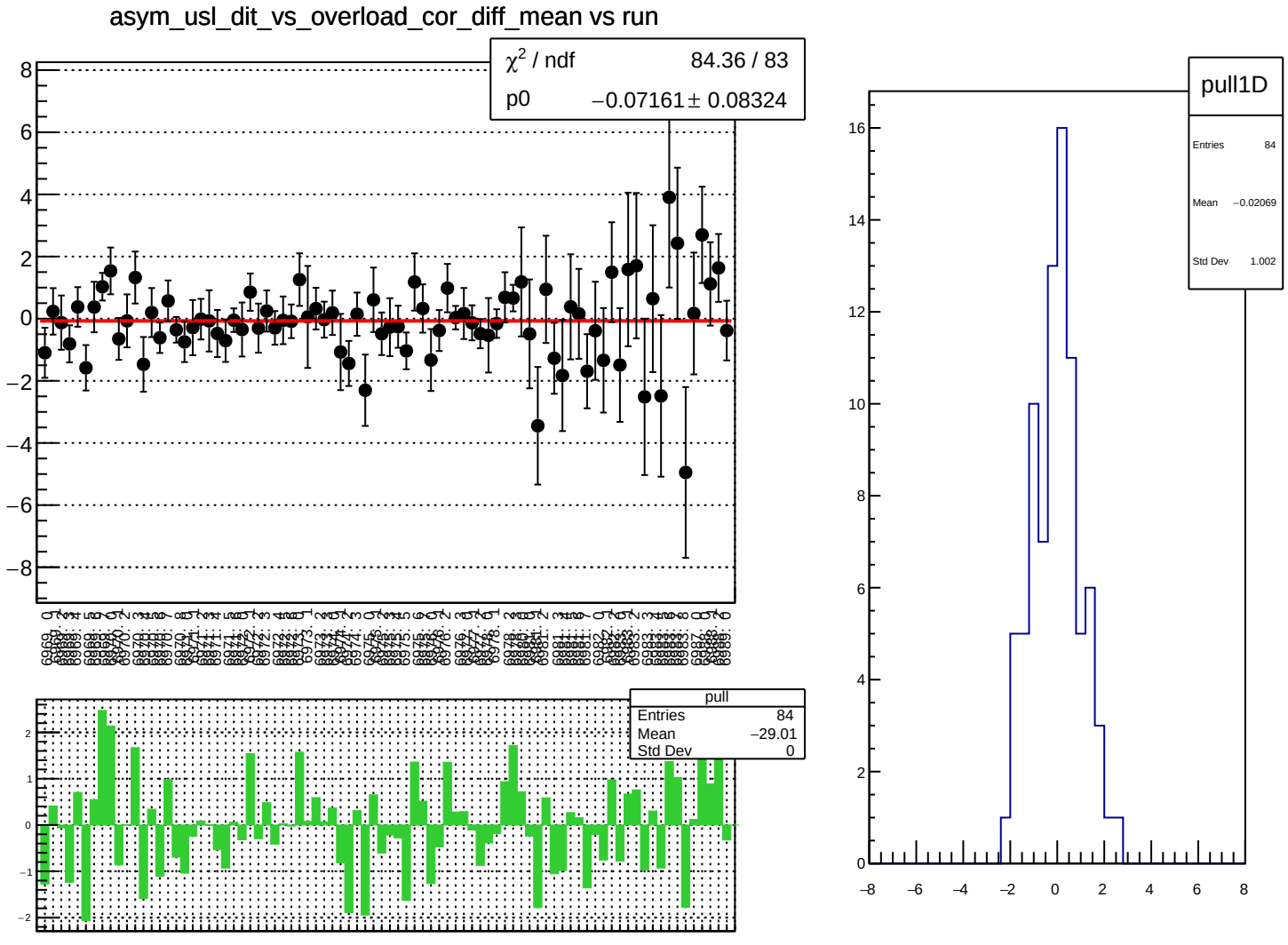

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.143e+05 / 83
p0 3.858e−11 ± 3.583e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

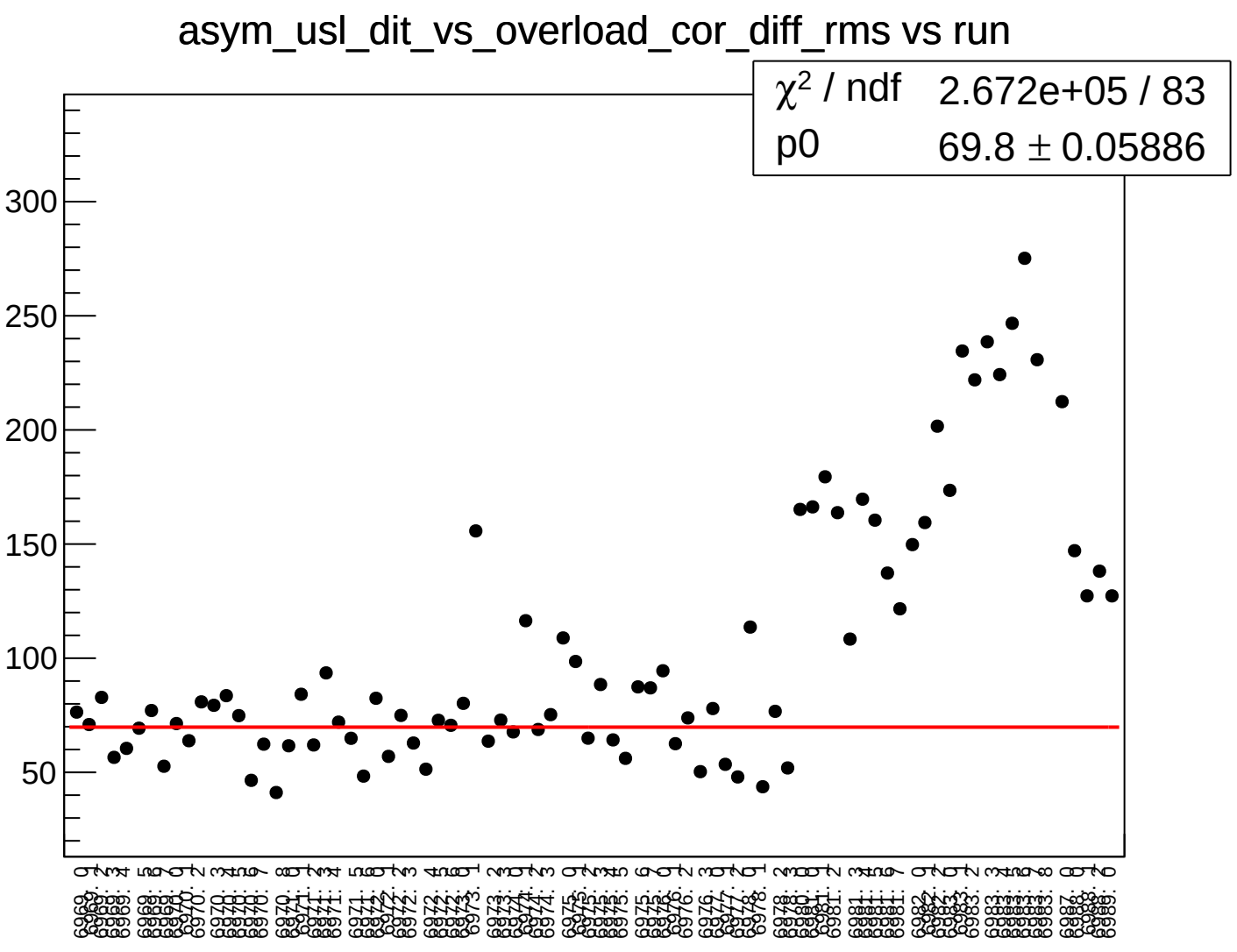

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 81.75 / 83
p0 −0.08097 ± 0.05532
pull
Entries 84
Mean 197.3
Std Dev 0
pull1D
Entries 84
Mean 0.01476
Std Dev 0.9864

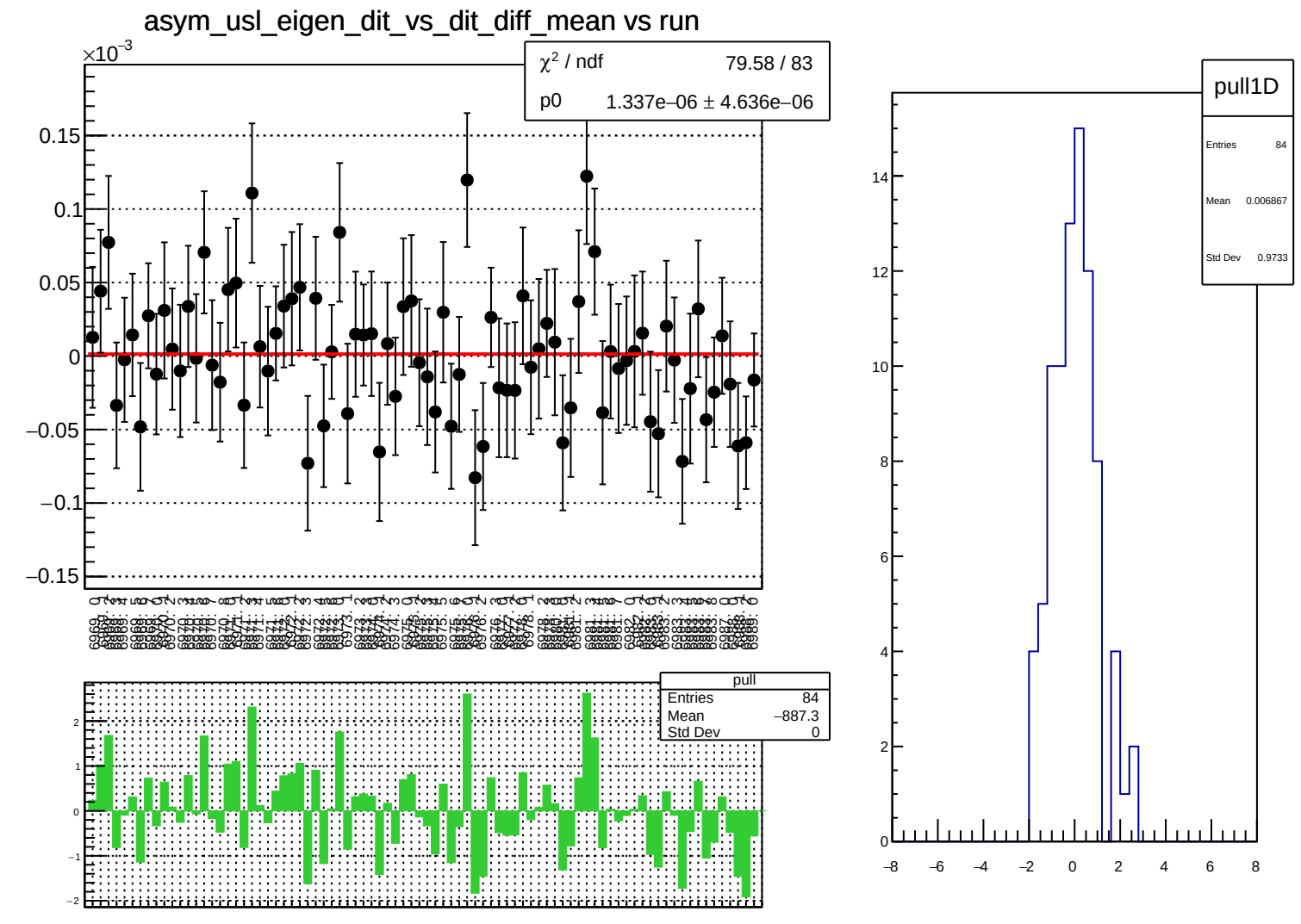

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 4.566e+05 / 83
p0 43.15 ± 0.03912
250
200
150
100
50


asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.75 / 83
p0 −0.08097 ± 0.05532
pull
Entries 84
Mean 197.3
Std Dev 0
pull1D
Entries 84
Mean 0.01476
Std Dev 0.9864

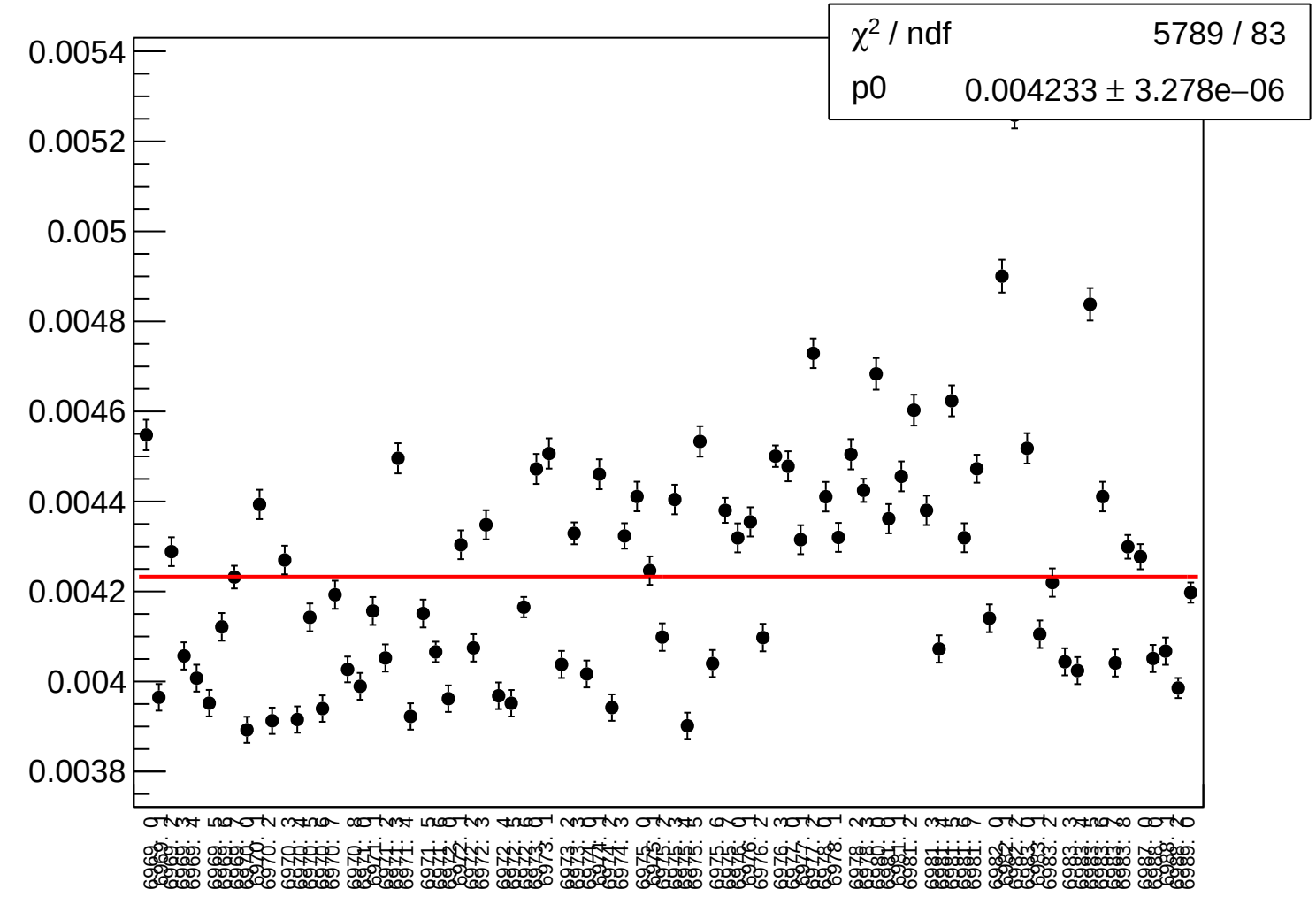

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.566e+05 / 83
p0 43.15 ± 0.03912
250
200
150
100
50

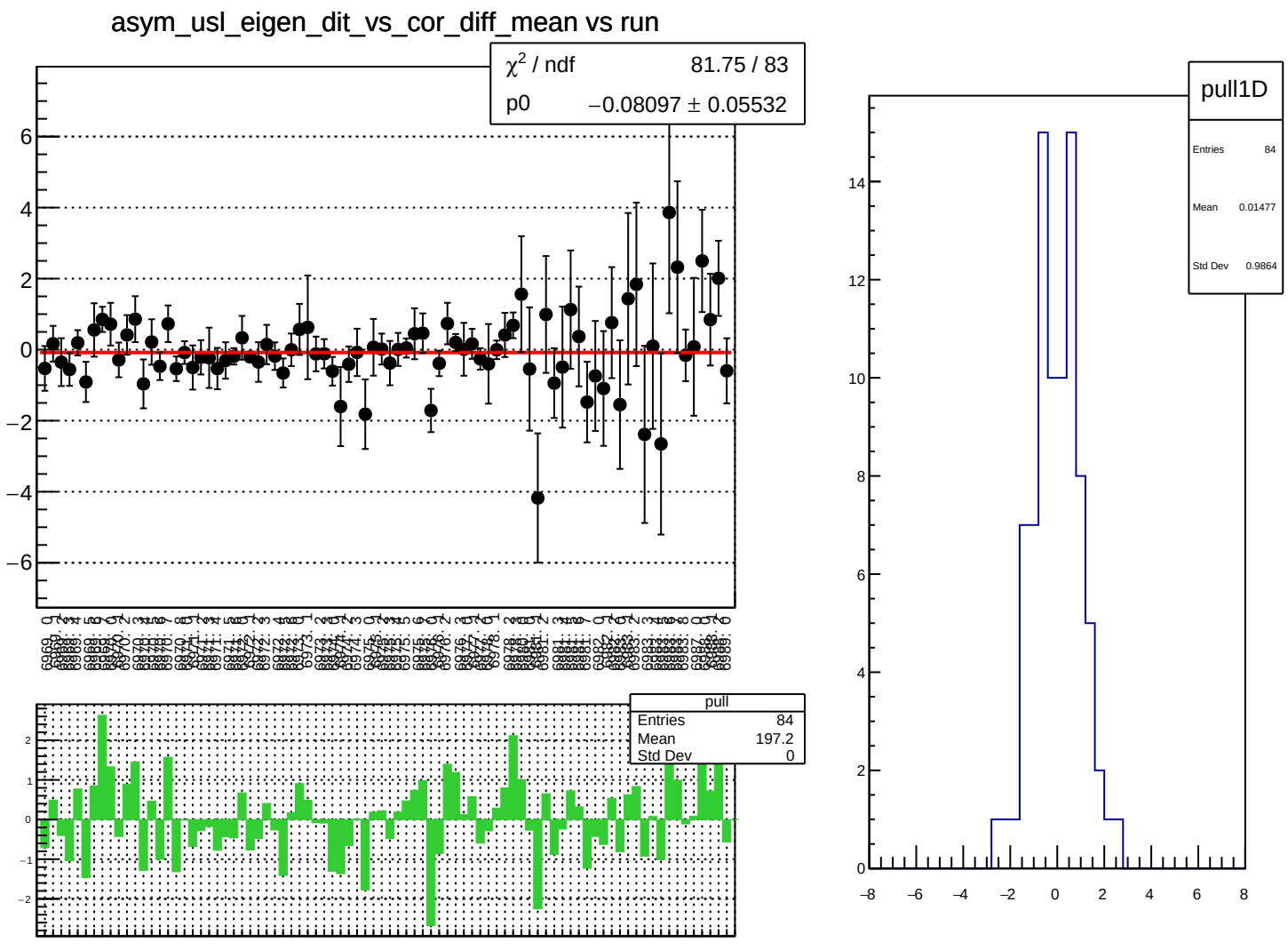

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.36 / 83
p0 −0.07161 ± 0.08324
pull
Entries 84
Mean −29.01
Std Dev 0
pull1D
Entries 84
Mean −0.02069
Std Dev 1.002

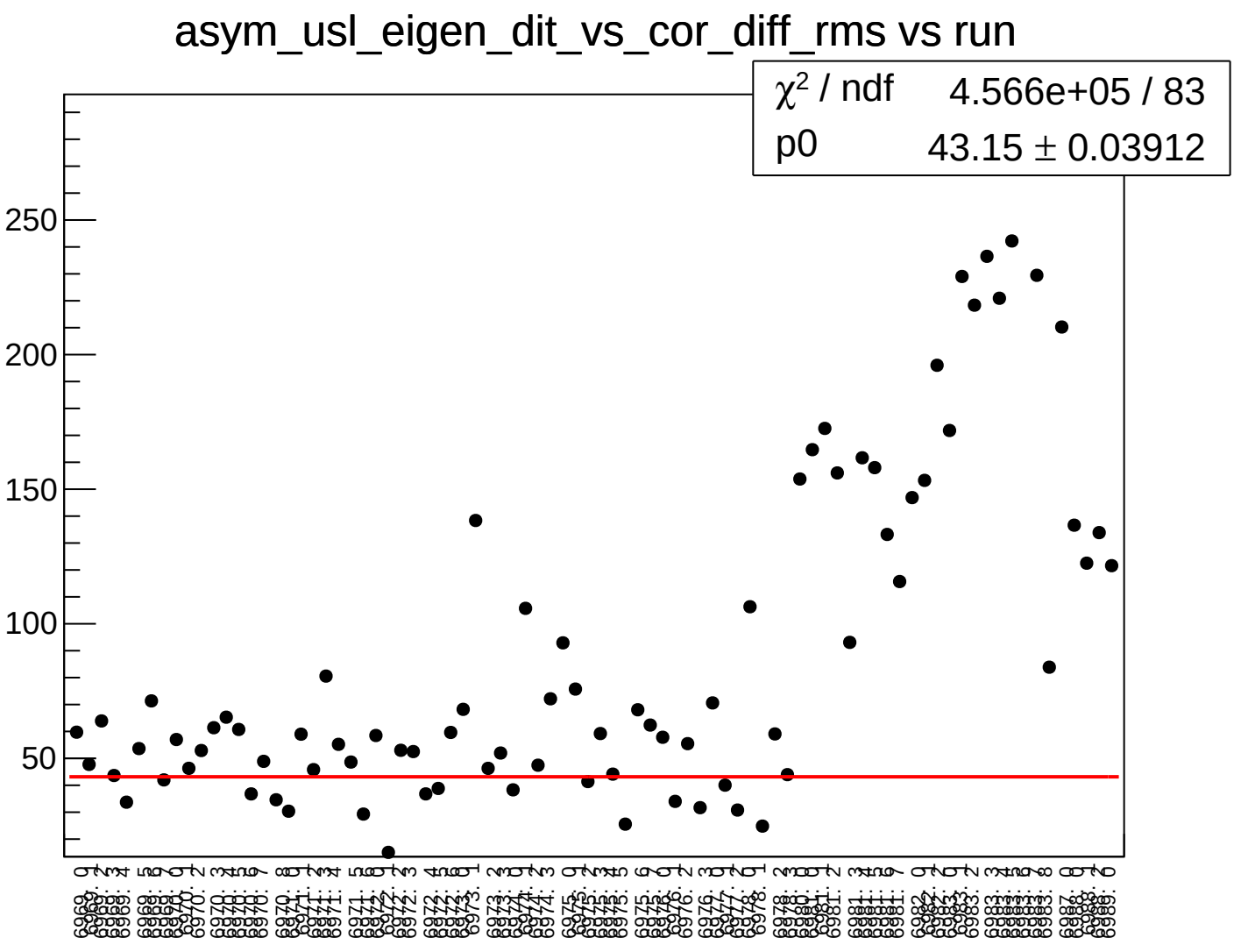

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.672e+05 / 83
p0 69.8 ± 0.05886
300
250
200
150
100
50

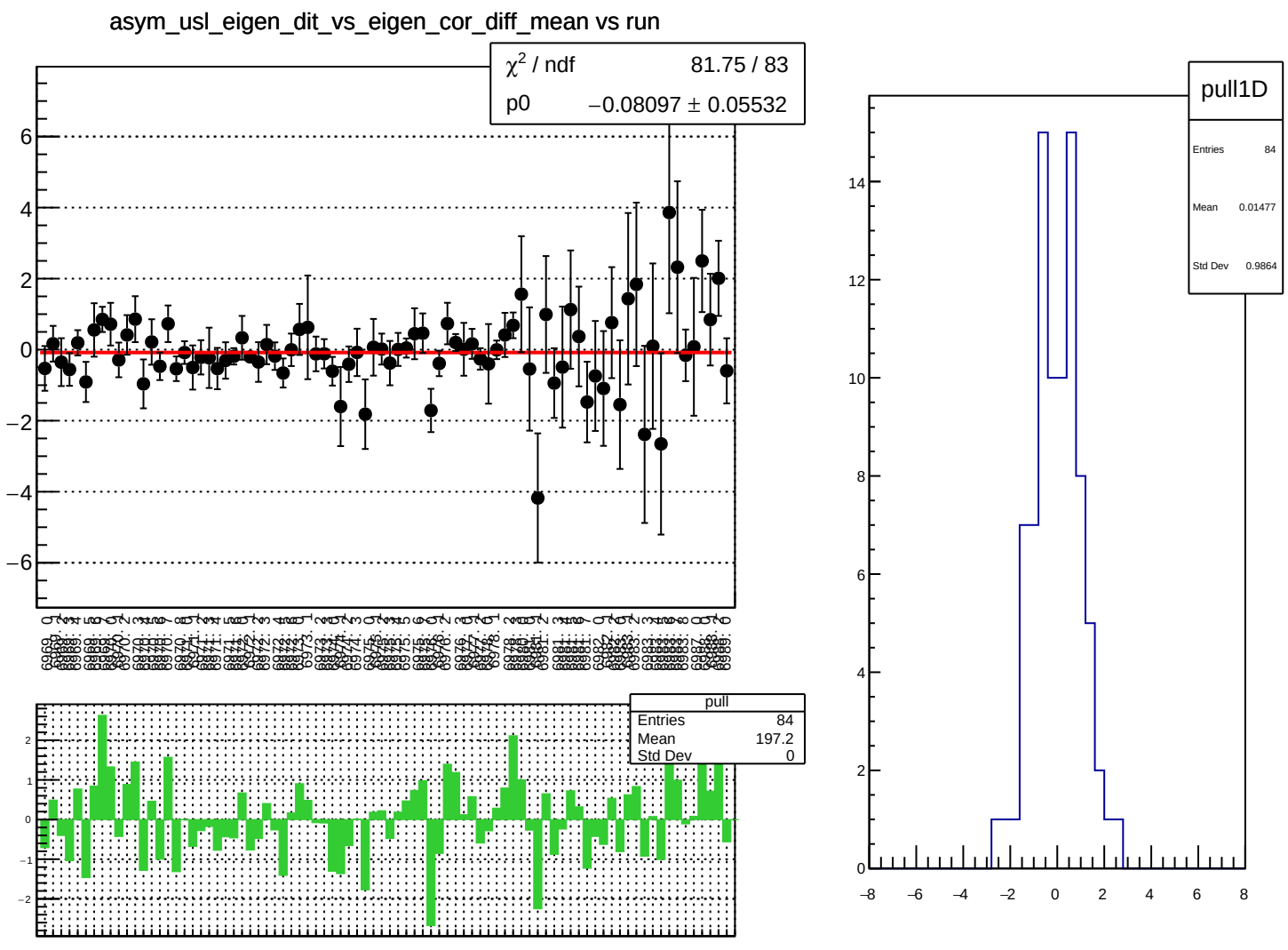

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.58 / 83
p0 1.337e−06 ± 4.636e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean −887.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.006867
Std Dev 0.9733
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

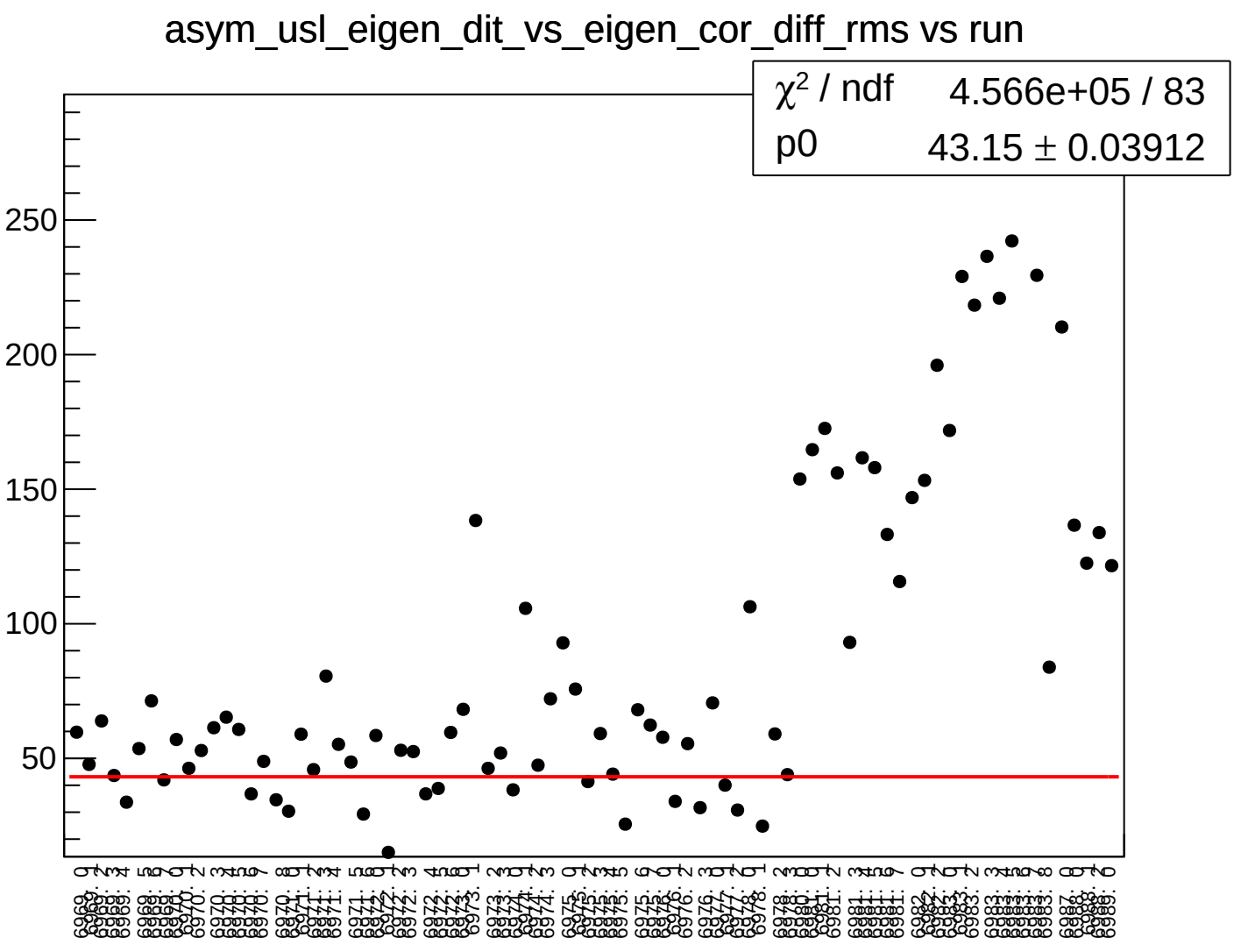
asym_usl_eigen_dit_vs_dit_diff_rms vs run

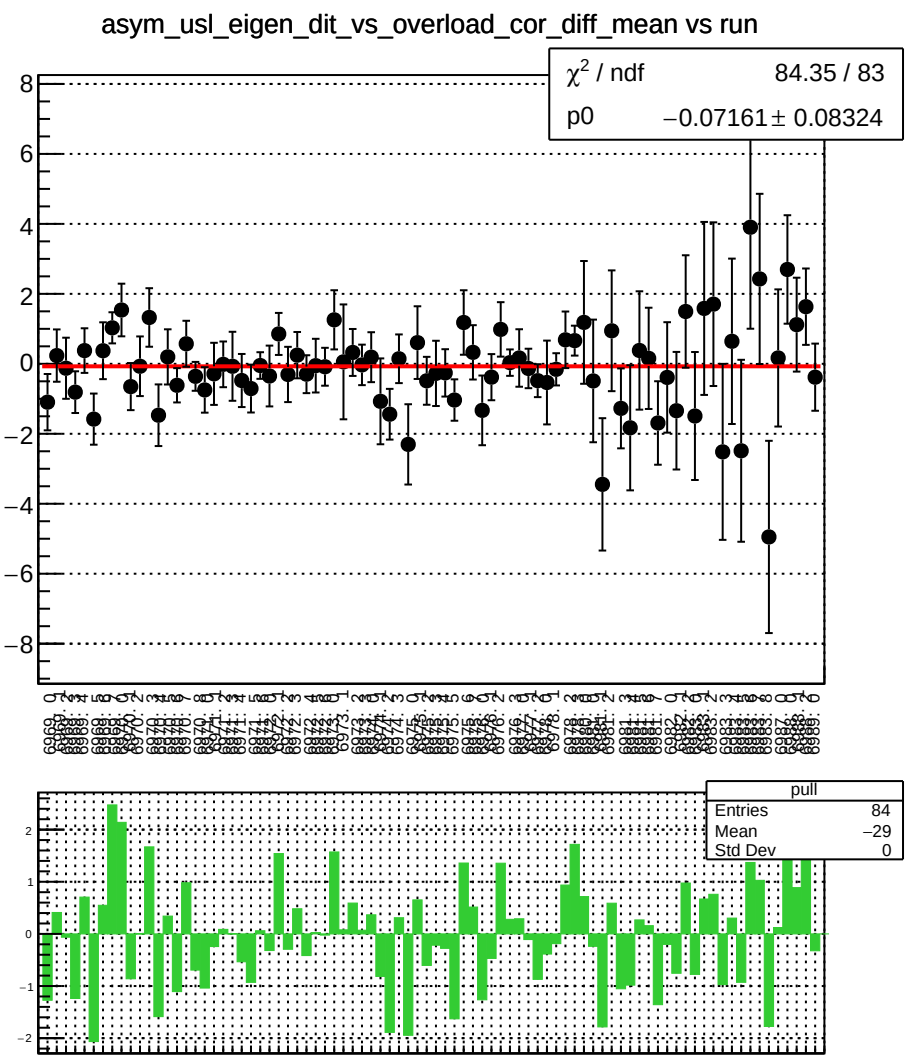


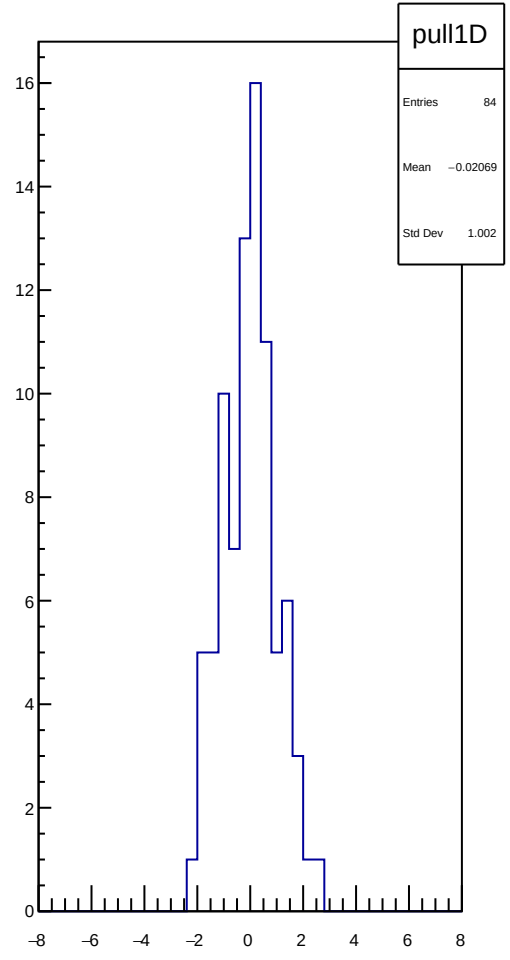

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.75 / 83
p0 −0.08097 ± 0.05532
pull
Entries 84
Mean 197.2
Std Dev 0
pull1D
Entries 84
Mean 0.01477
Std Dev 0.9864

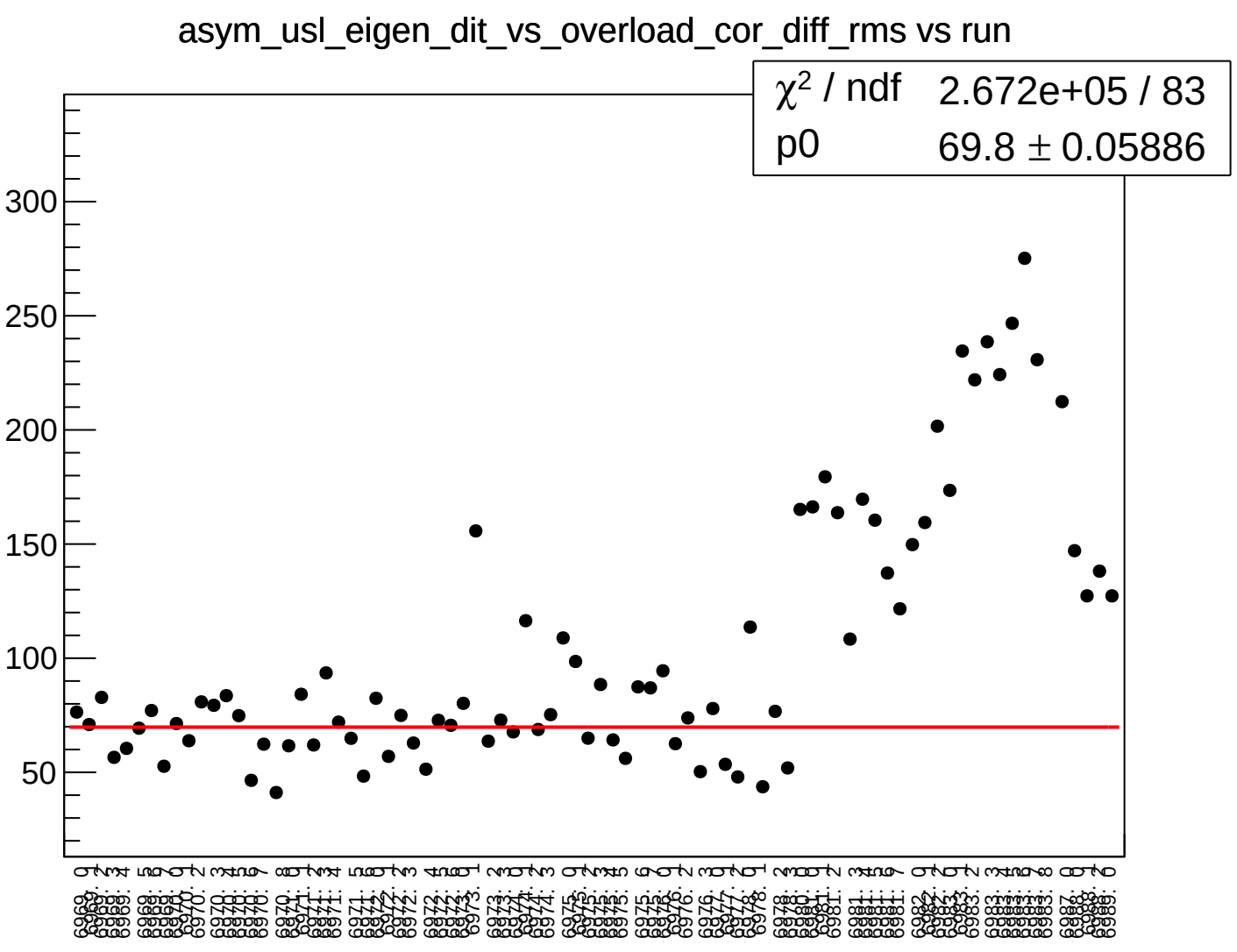

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.566e+05 / 83
p0 43.15 ± 0.03912
250
200
150
100
50

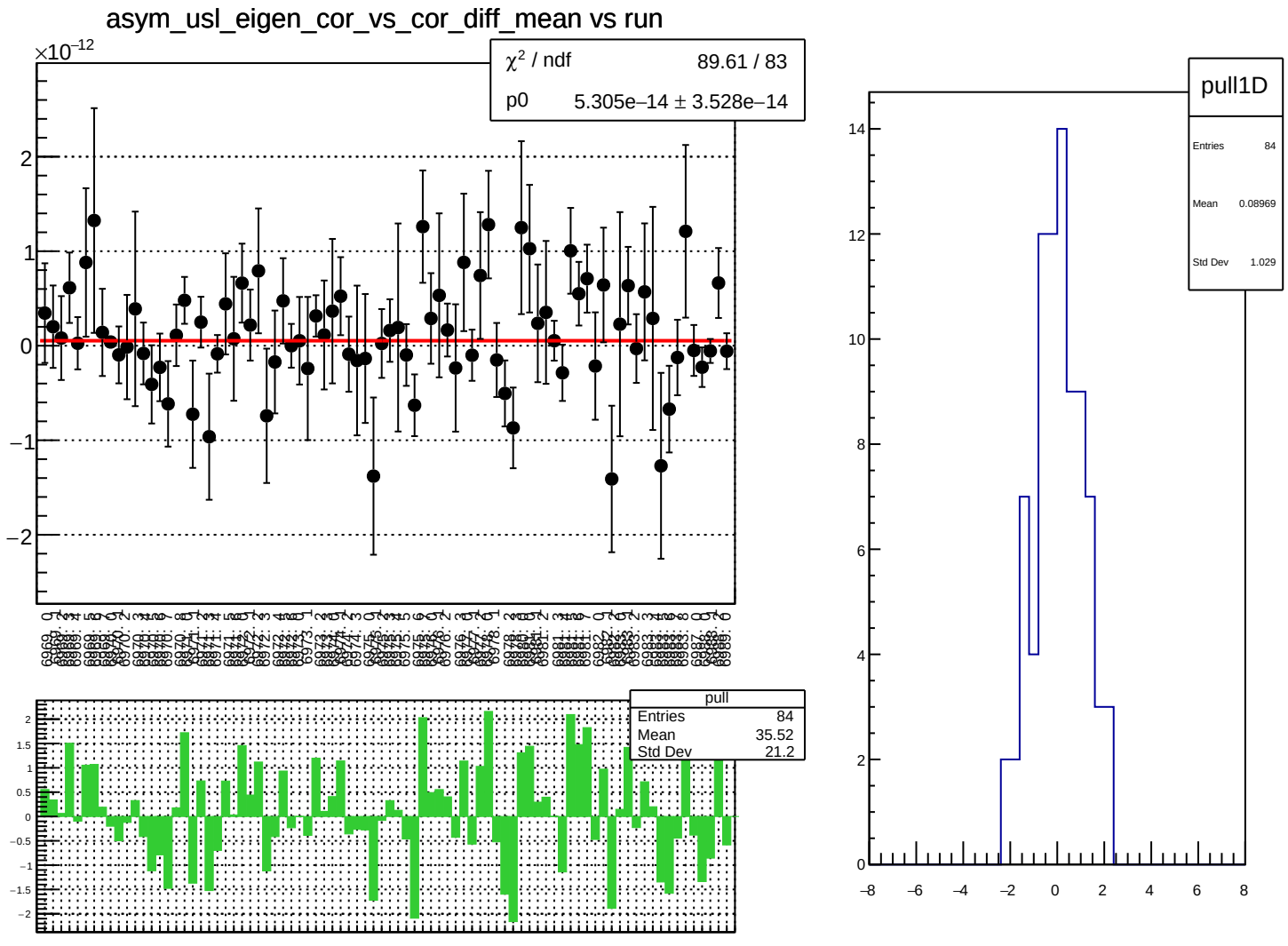

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.75 / 83
p0 −0.08097 ± 0.05532
pull
Entries 84
Mean 197.2
Std Dev 0
pull1D
Entries 84
Mean 0.01477
Std Dev 0.9864

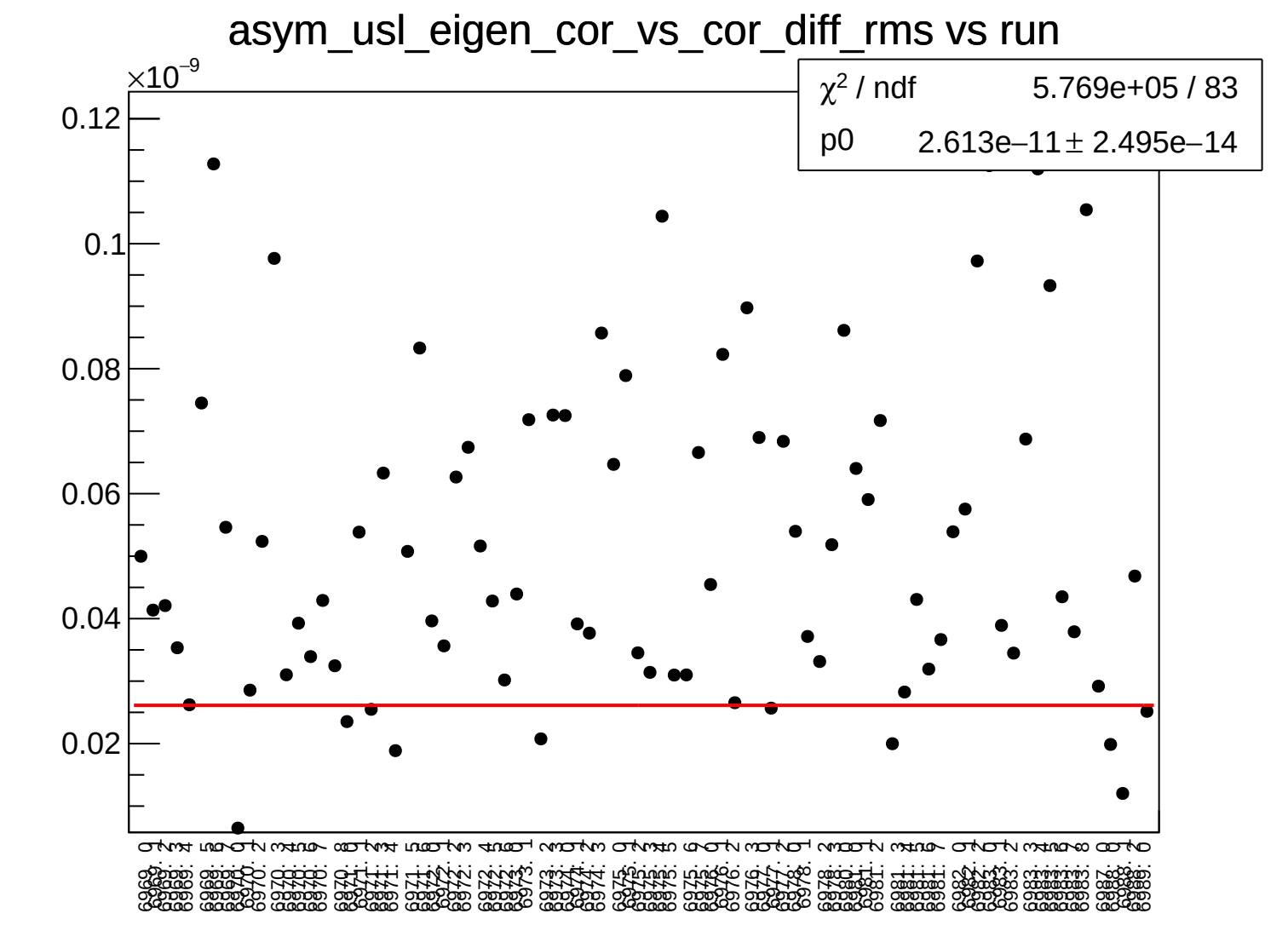

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.566e+05 / 83
p0 43.15 ± 0.03912
250
200
150
100
50

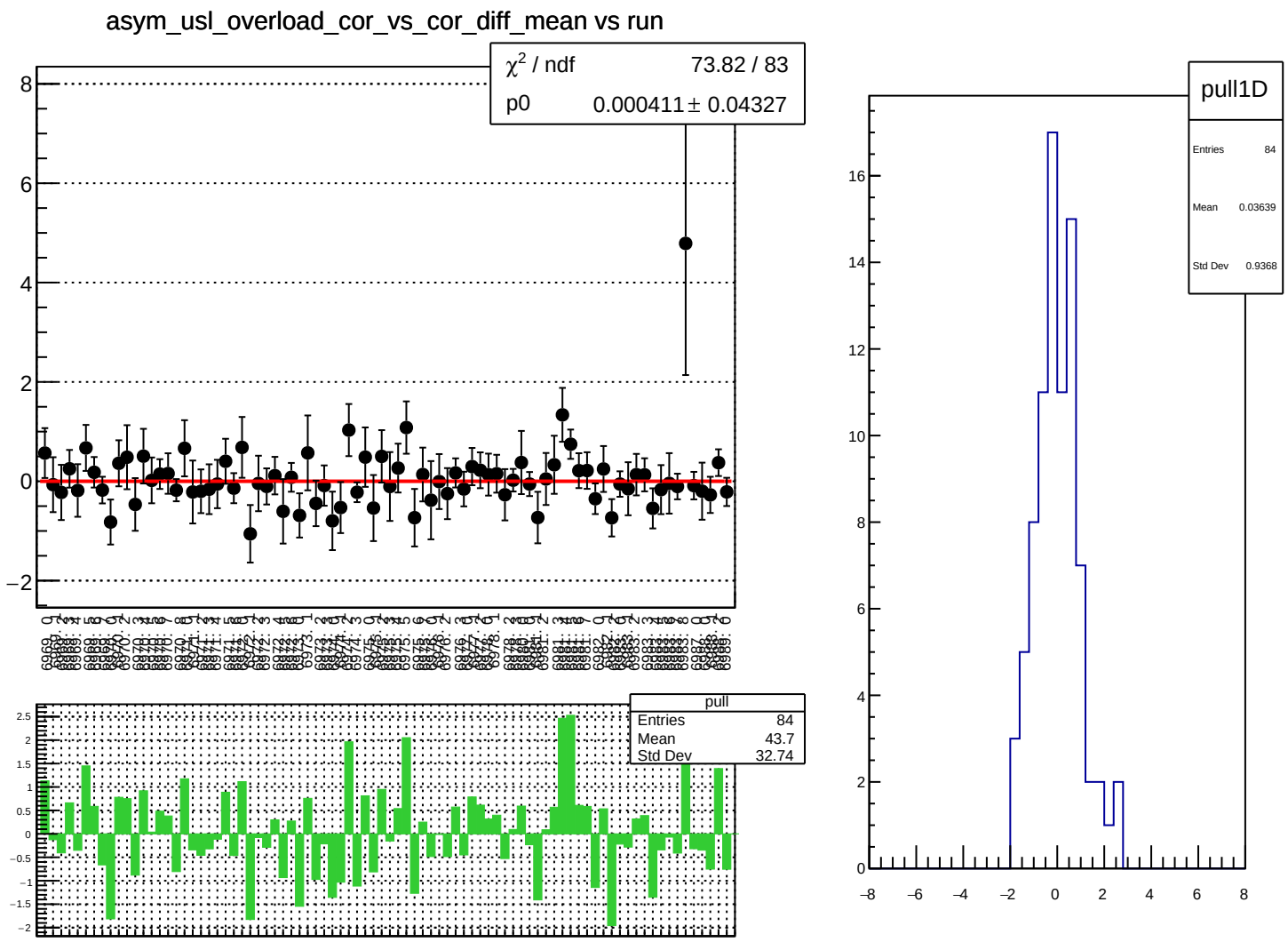

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.35 / 83
p0 −0.07161 ± 0.08324
pull
Entries 84
Mean −29
Std Dev 0

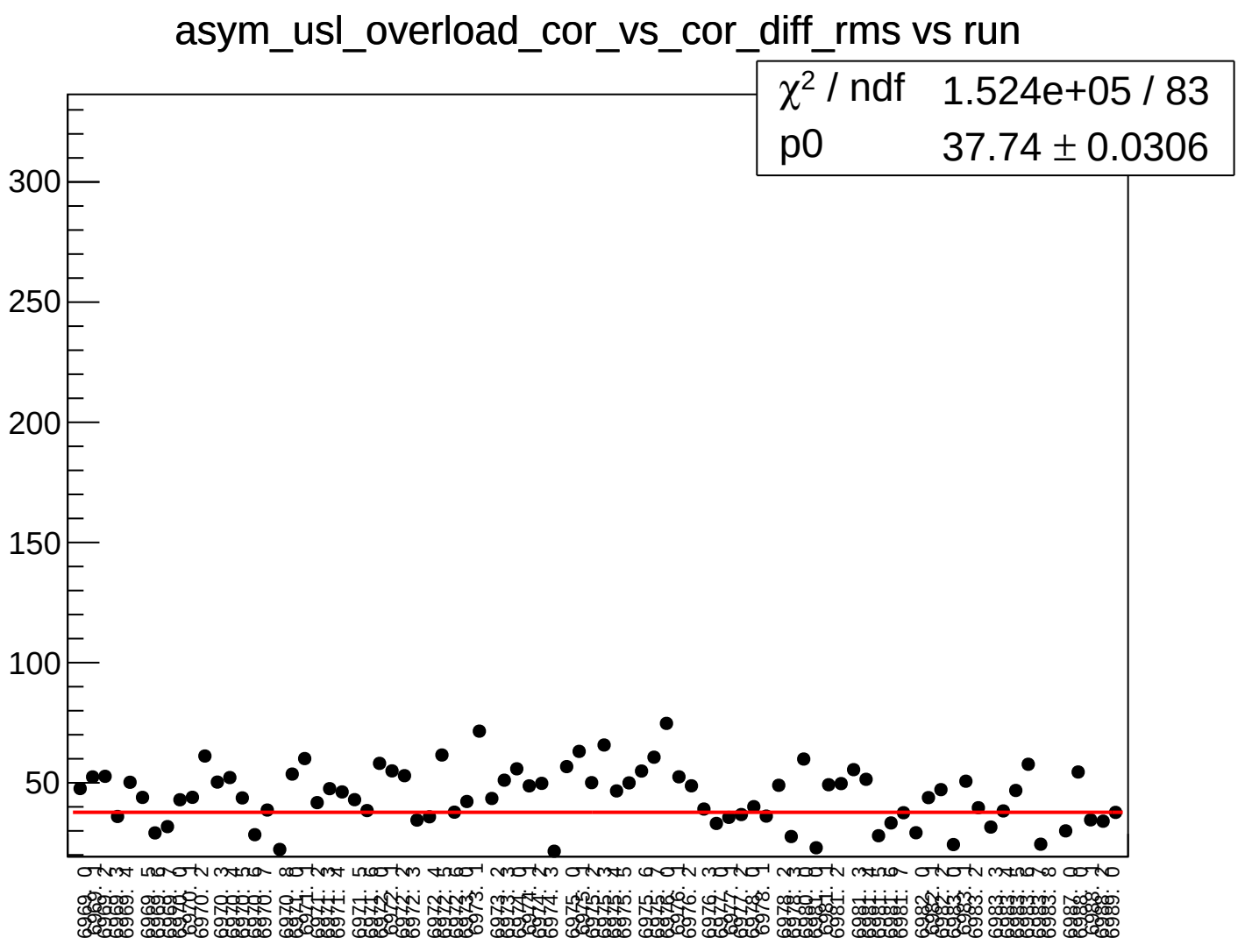

pull1D
Entries 84
Mean −0.02069
Std Dev 1.002

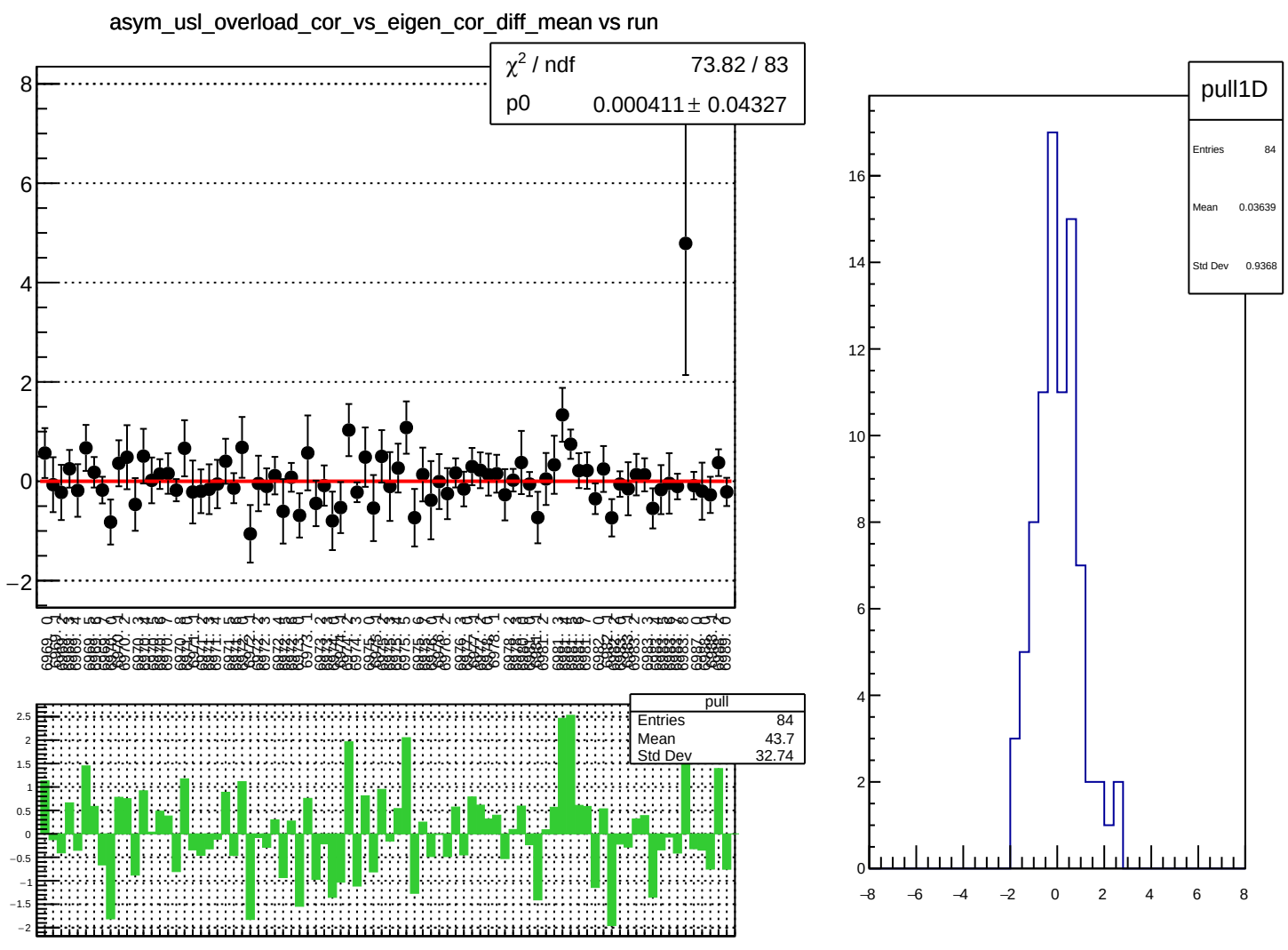

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.672e+05 / 83
p0 69.8 ± 0.05886
300
250
200
150
100
50

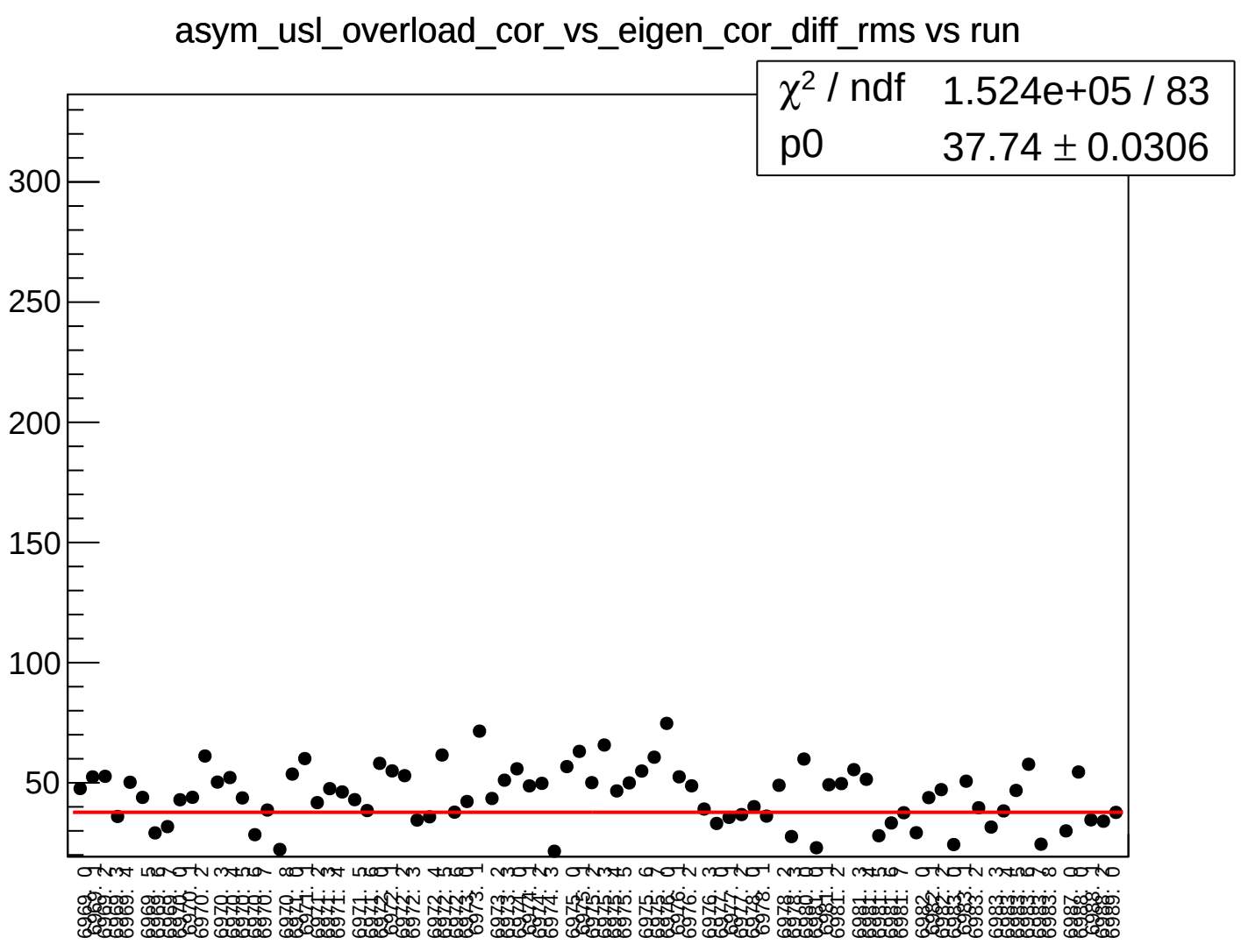

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.61 / 83
p0 5.305e−14 ± 3.528e−14
pull
Entries 84
Mean 35.52
Std Dev 21.2
pull1D
Entries 84
Mean 0.08969
Std Dev 1.029

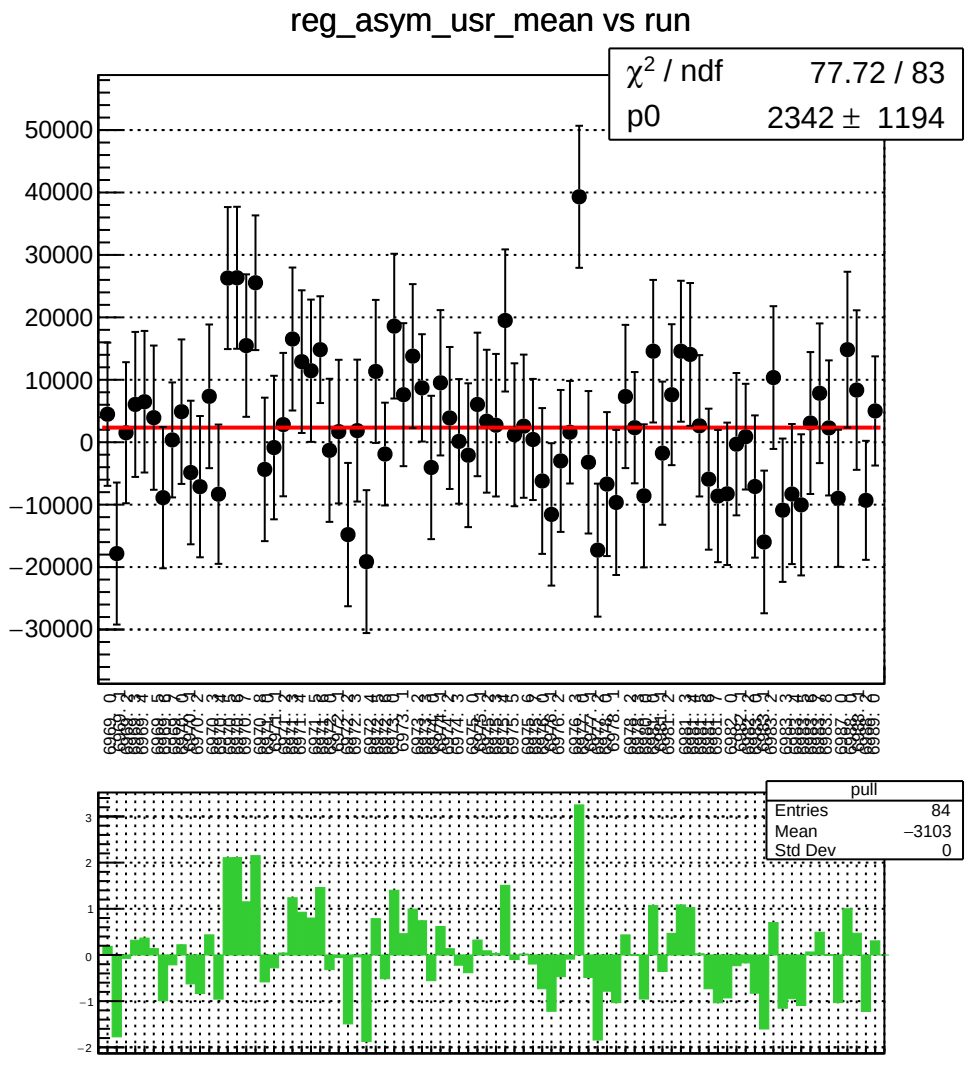

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.769e+05 / 83
p0 2.613e−11 ± 2.495e−14
0.12
0.1
0.08
0.06
0.04
0.02

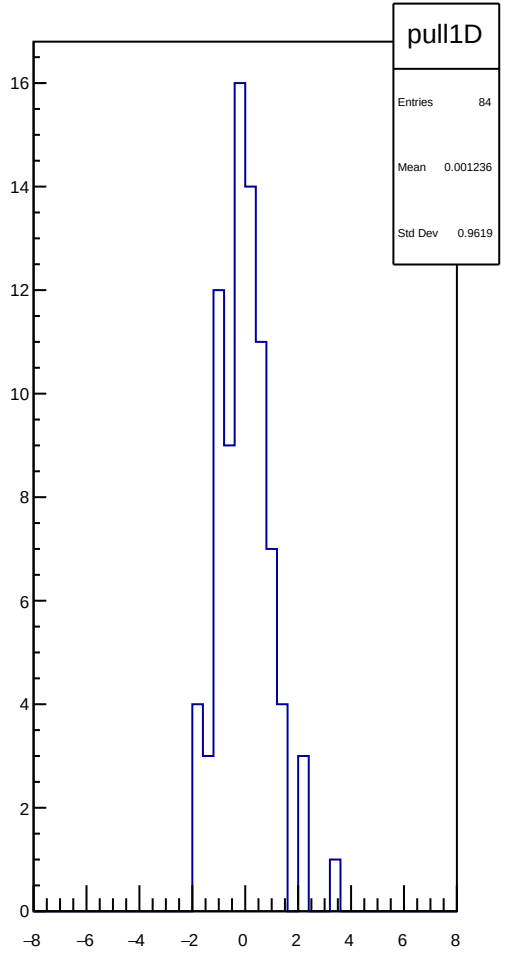

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 73.82 / 83
p0 0.000411 ± 0.04327
pull
Entries 84
Mean 43.7
Std Dev 32.74
pull1D
Entries 84
Mean 0.03639
Std Dev 0.9368

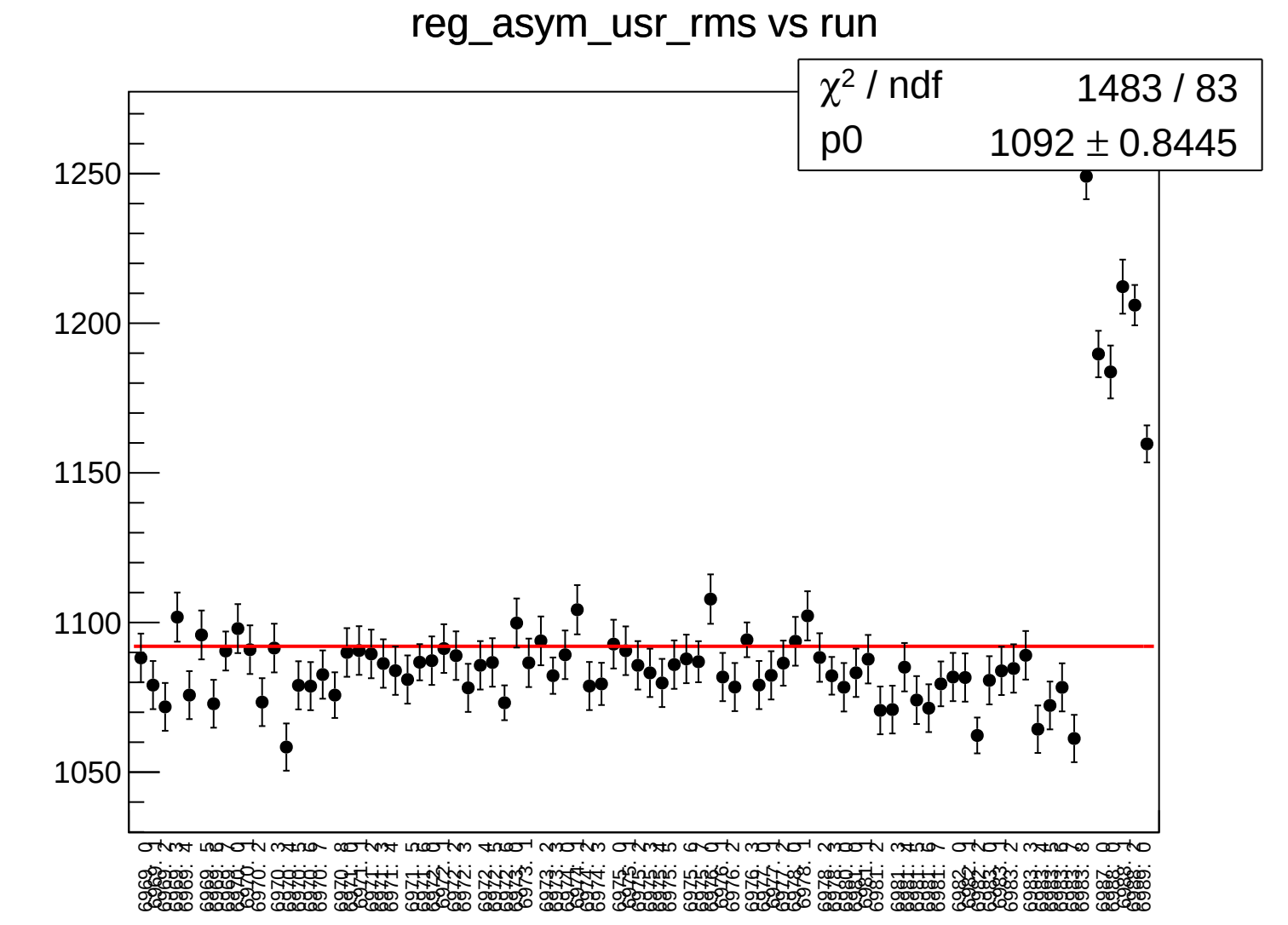

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.524e+05 / 83
p0 37.74 ± 0.0306
300
250
200
150
100
50

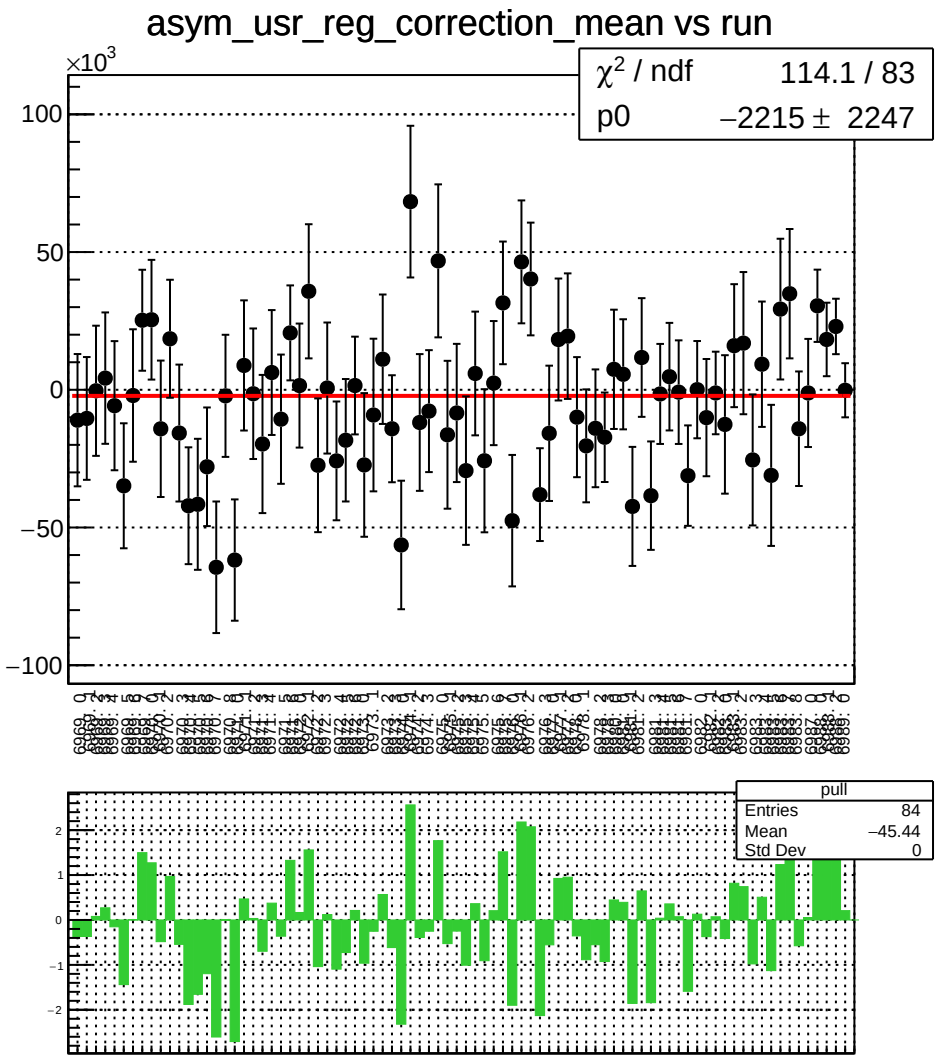

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.82 / 83
p0 0.000411 ± 0.04327
pull
Entries 84
Mean 43.7
Std Dev 32.74
pull1D
Entries 84
Mean 0.03639
Std Dev 0.9368

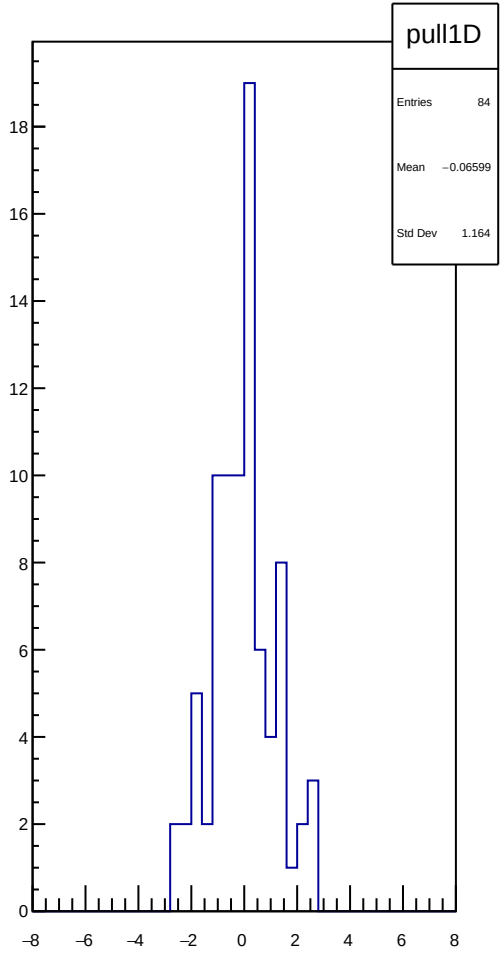

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.524e+05 / 83
p0 37.74 ± 0.0306
300
250
200
150
100
50

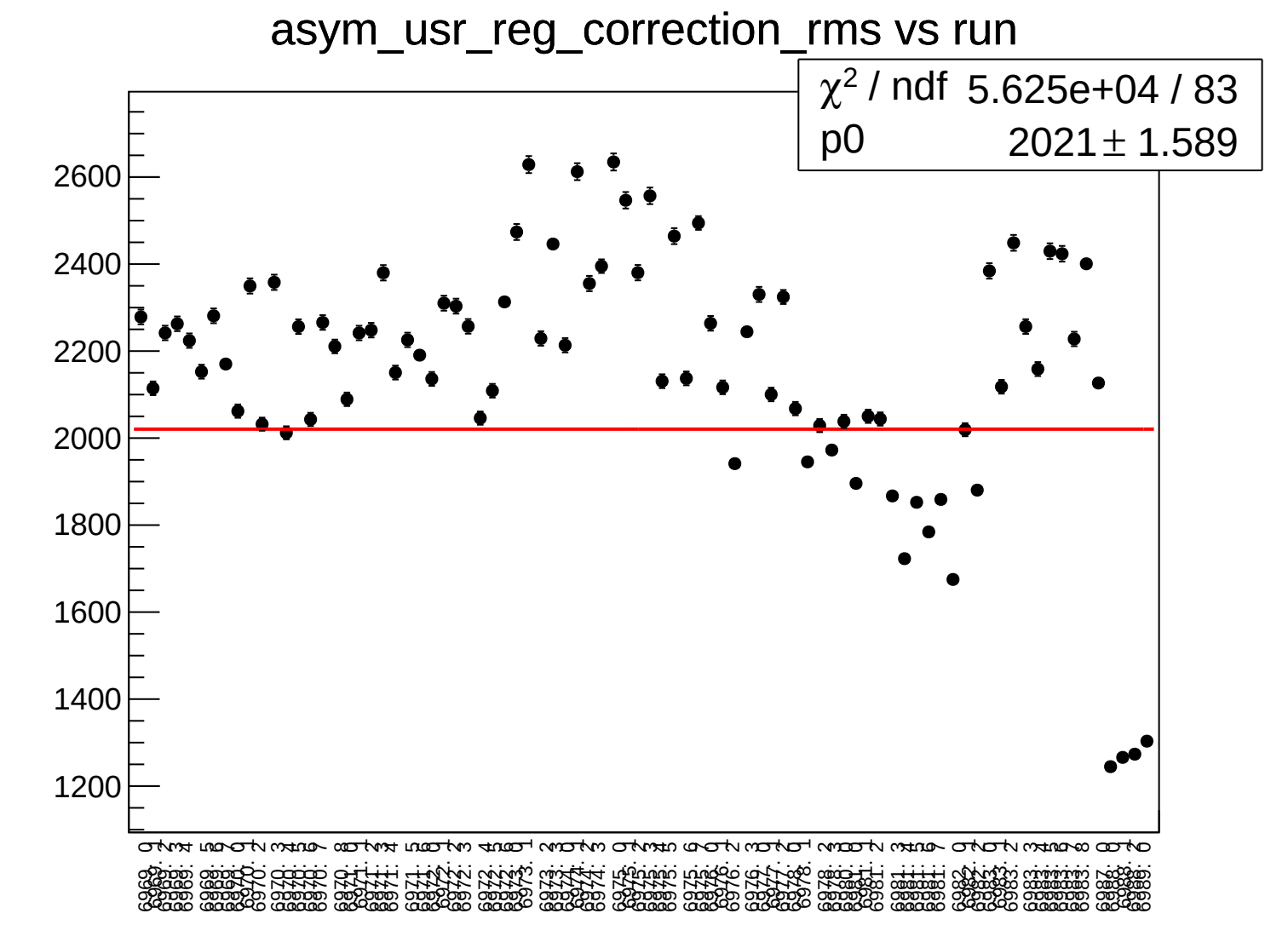

reg_asym_usr_mean vs run
χ² / ndf 77.72 / 83
p0 2342 ± 1194
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −3103
Std Dev 0
3
2
1
0
−1
−2

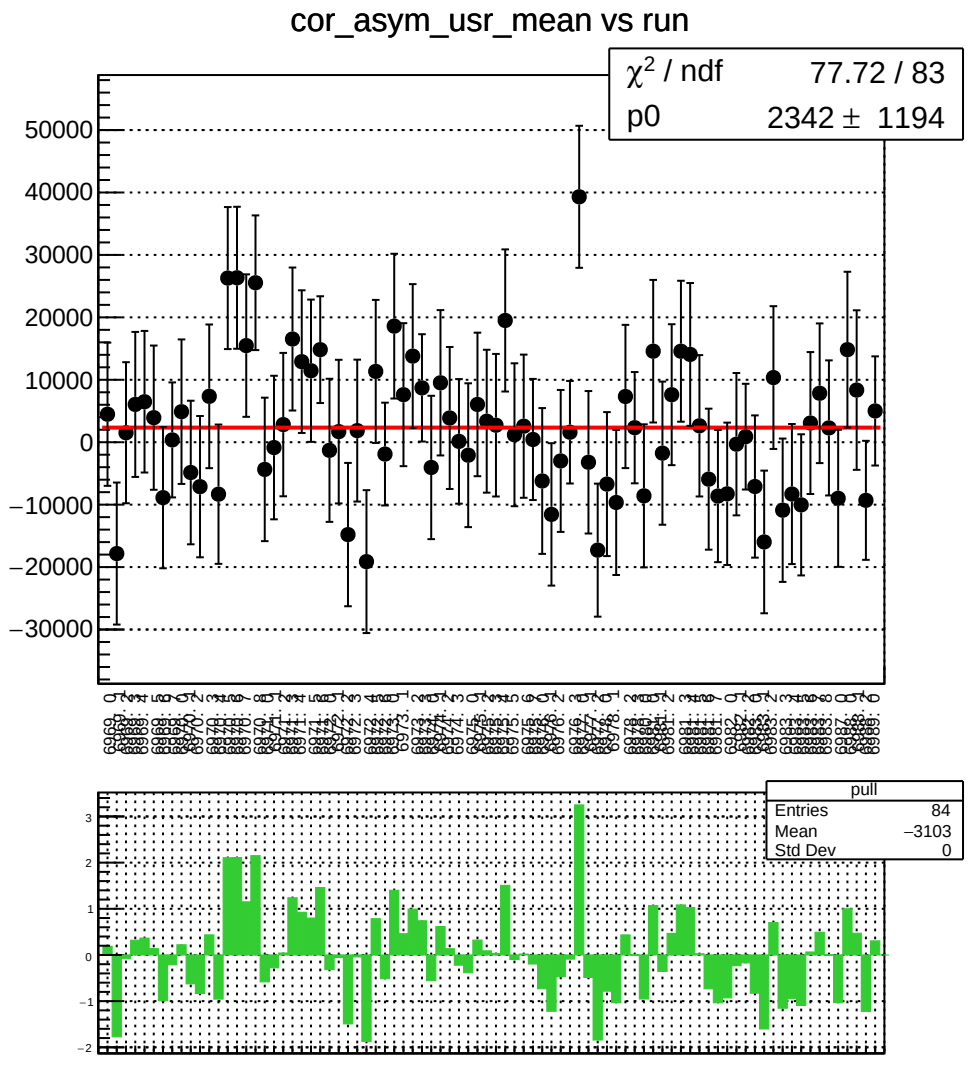

pull1D
Entries 84
Mean 0.001236
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

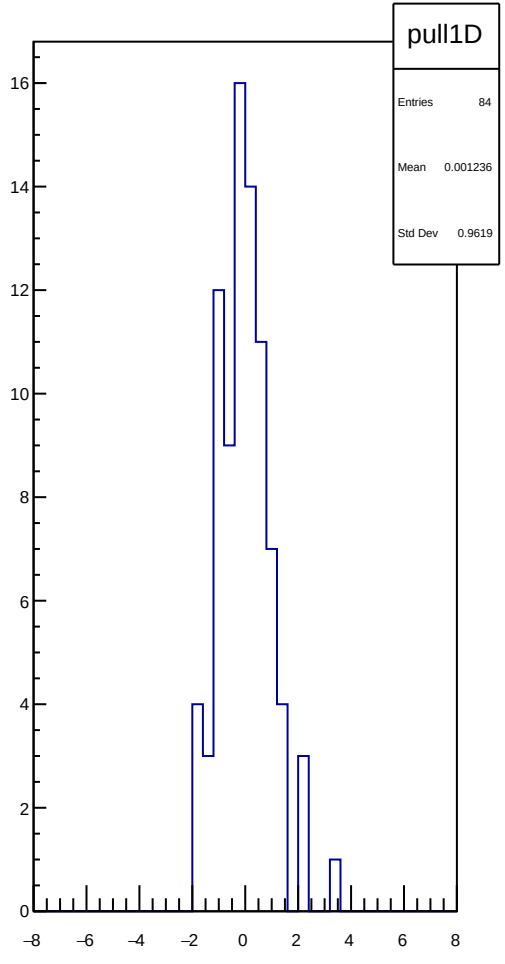

reg_asym_usr_rms vs run
χ² / ndf 1483 / 83
p0 1092 ± 0.8445
1250
1200
1150
1100
1050

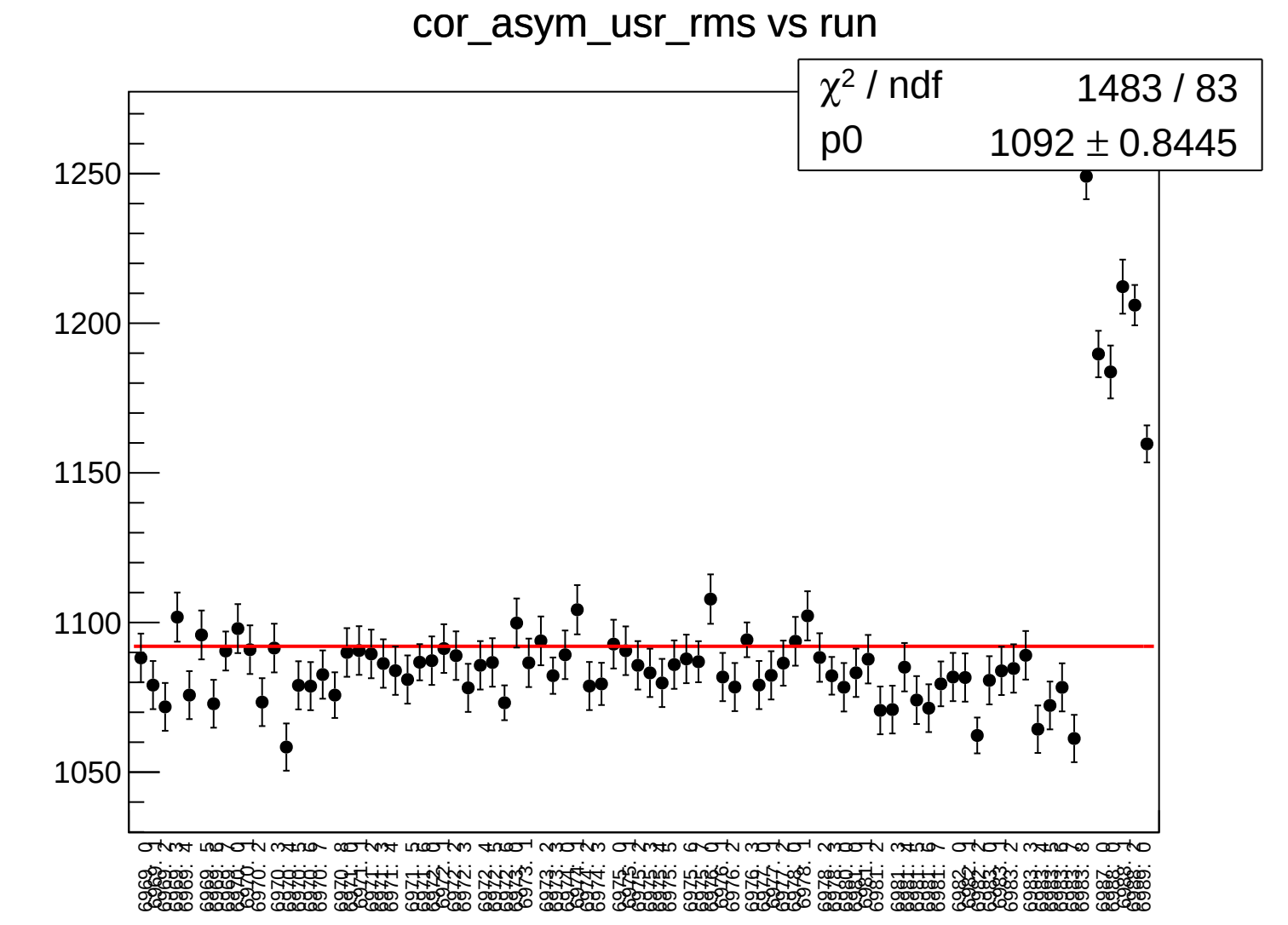

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 114.1 / 83
p0 −2215 ± 2247
100
50
0
−50
−100
pull
Entries 84
Mean −45.44
Std Dev 0
2
1
0
−1
−2

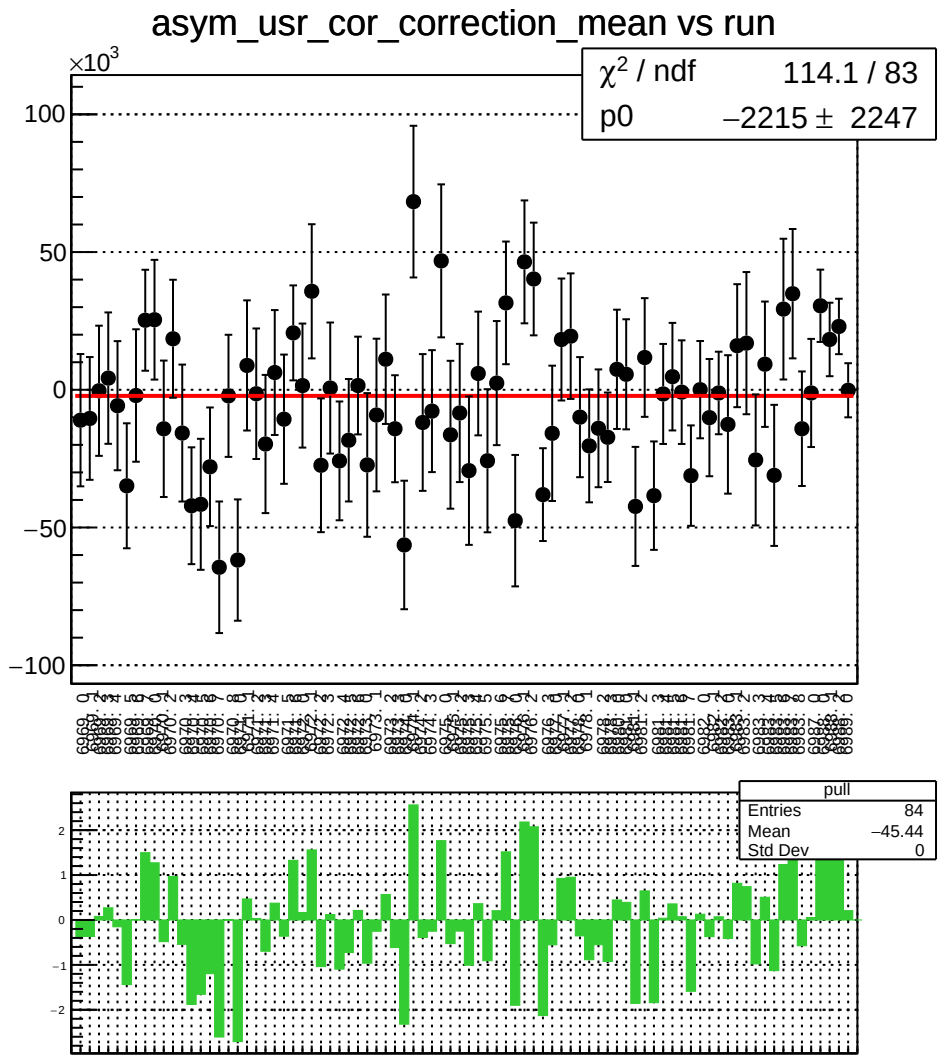

pull1D
Entries 84
Mean −0.06599
Std Dev 1.164
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

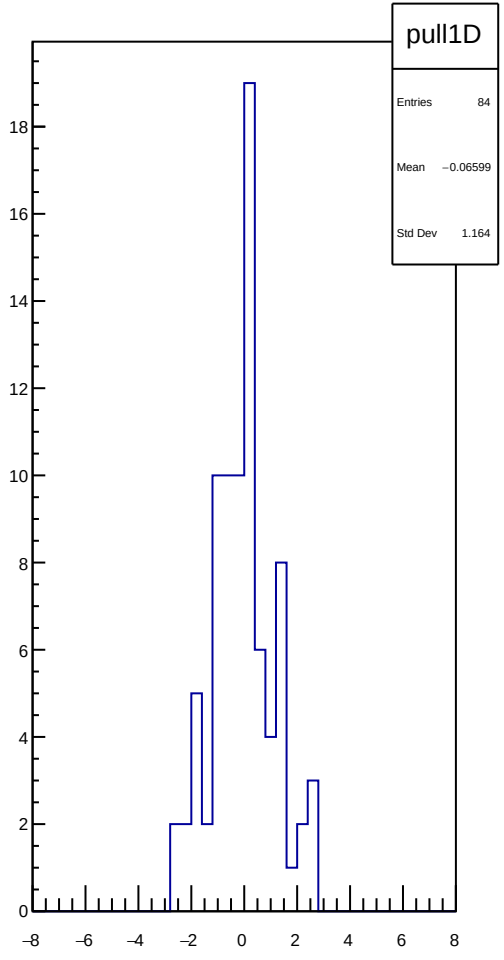

asym_usr_reg_correction_rms vs run
χ² / ndf 5.625e+04 / 83
p0 2021 ± 1.589
2600
2400
2200
2000
1800
1600
1400
1200

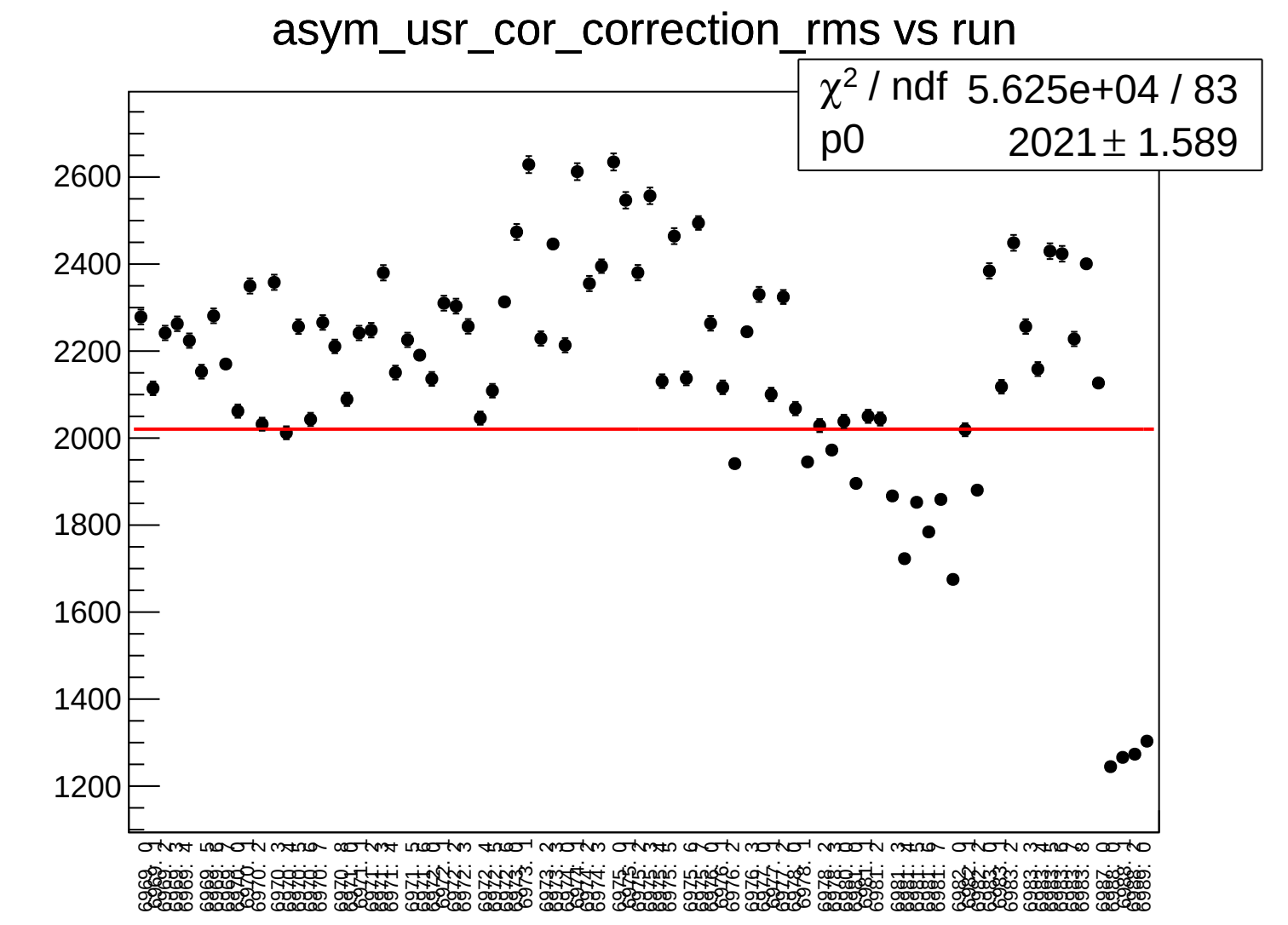

cor_asym_usr_mean vs run
χ² / ndf 77.72 / 83
p0 2342 ± 1194
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −3103
Std Dev 0
3
2
1
0
−1
−2

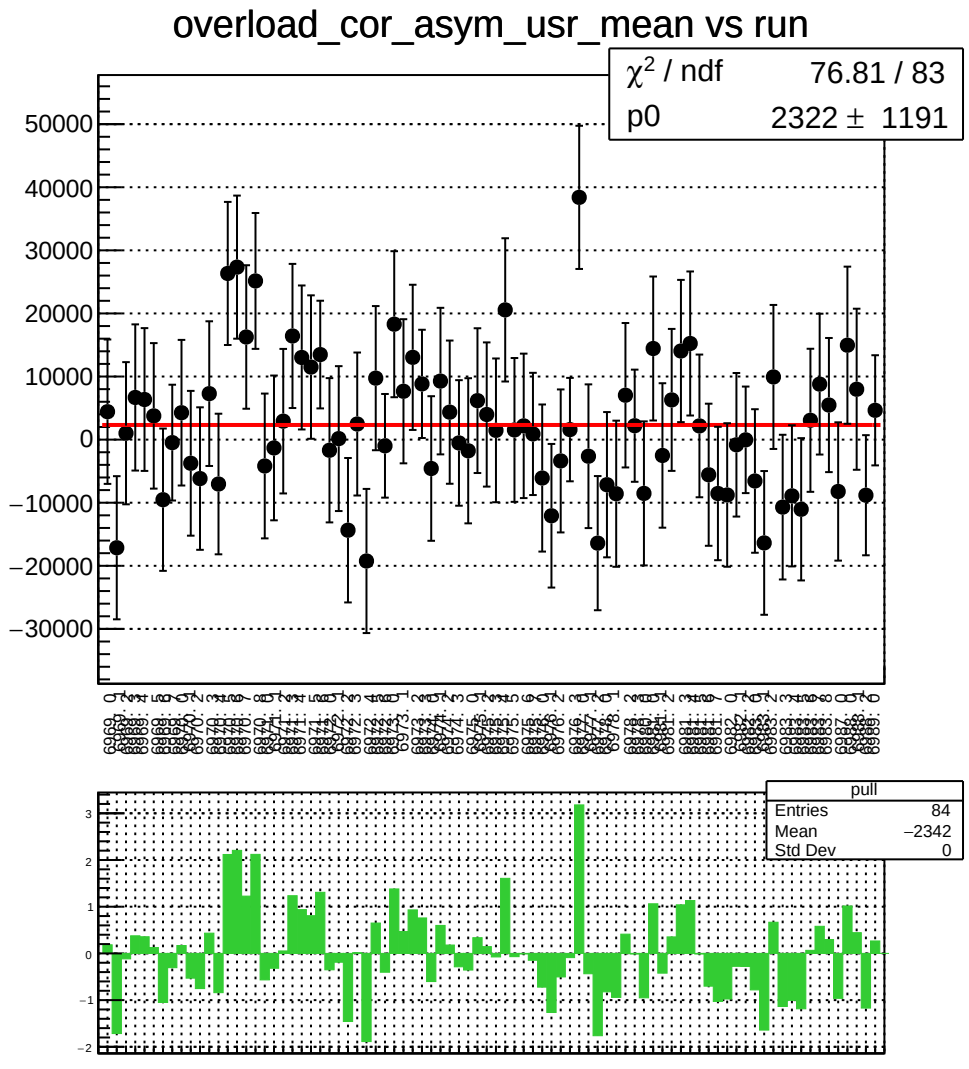

pull1D
Entries 84
Mean 0.001236
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

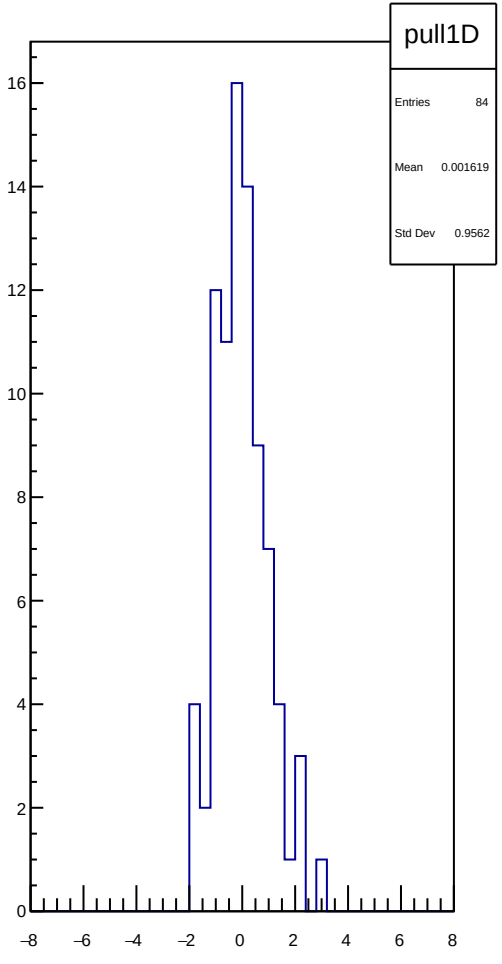

cor_asym_usr_rms vs run
χ² / ndf 1483 / 83
p0 1092 ± 0.8445
1250
1200
1150
1100
1050

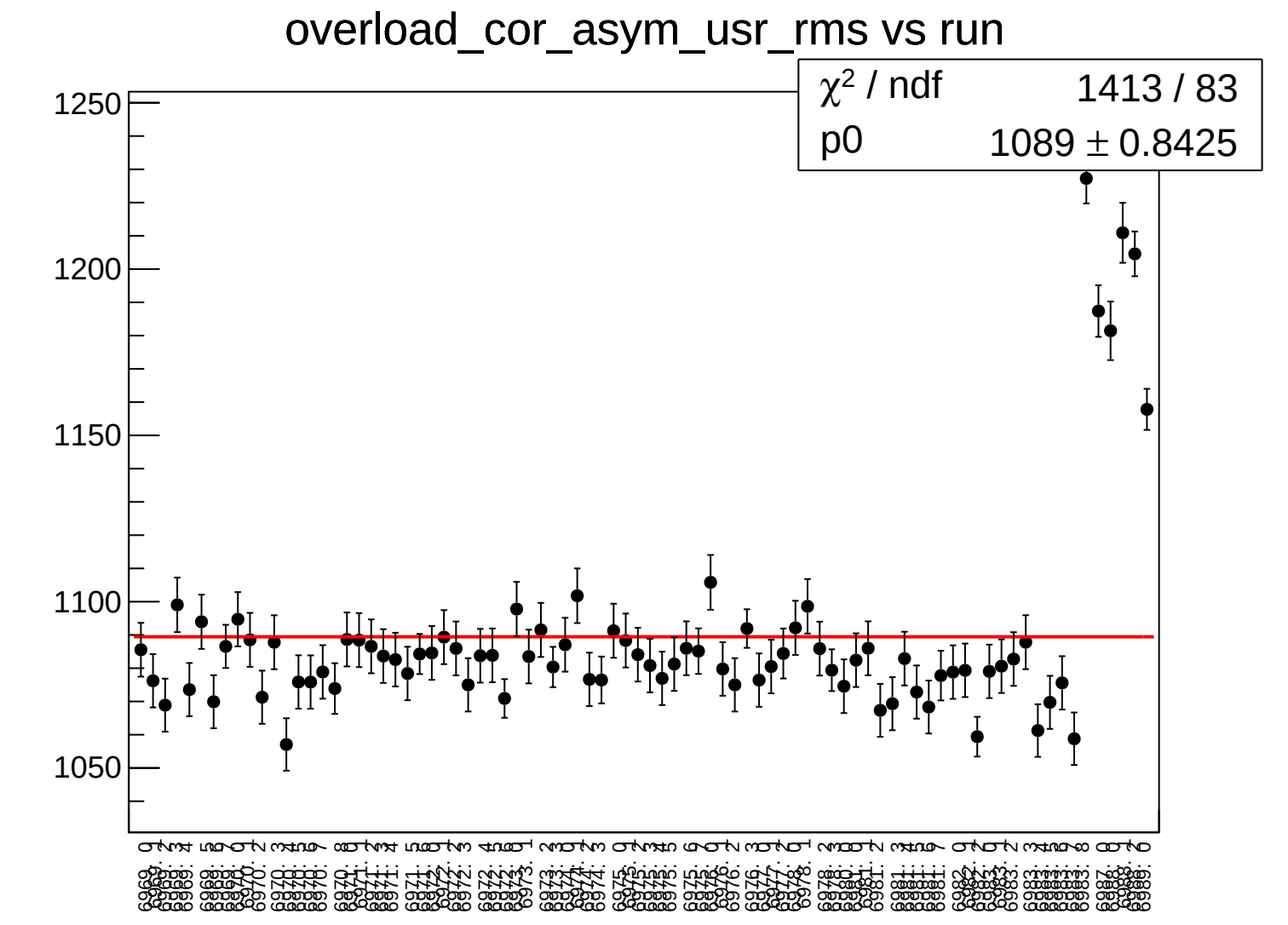

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 114.1 / 83
p0 −2215 ± 2247
100
50
0
−50
−100
pull
Entries 84
Mean −45.44
Std Dev 0
2
1
0
−1
−2

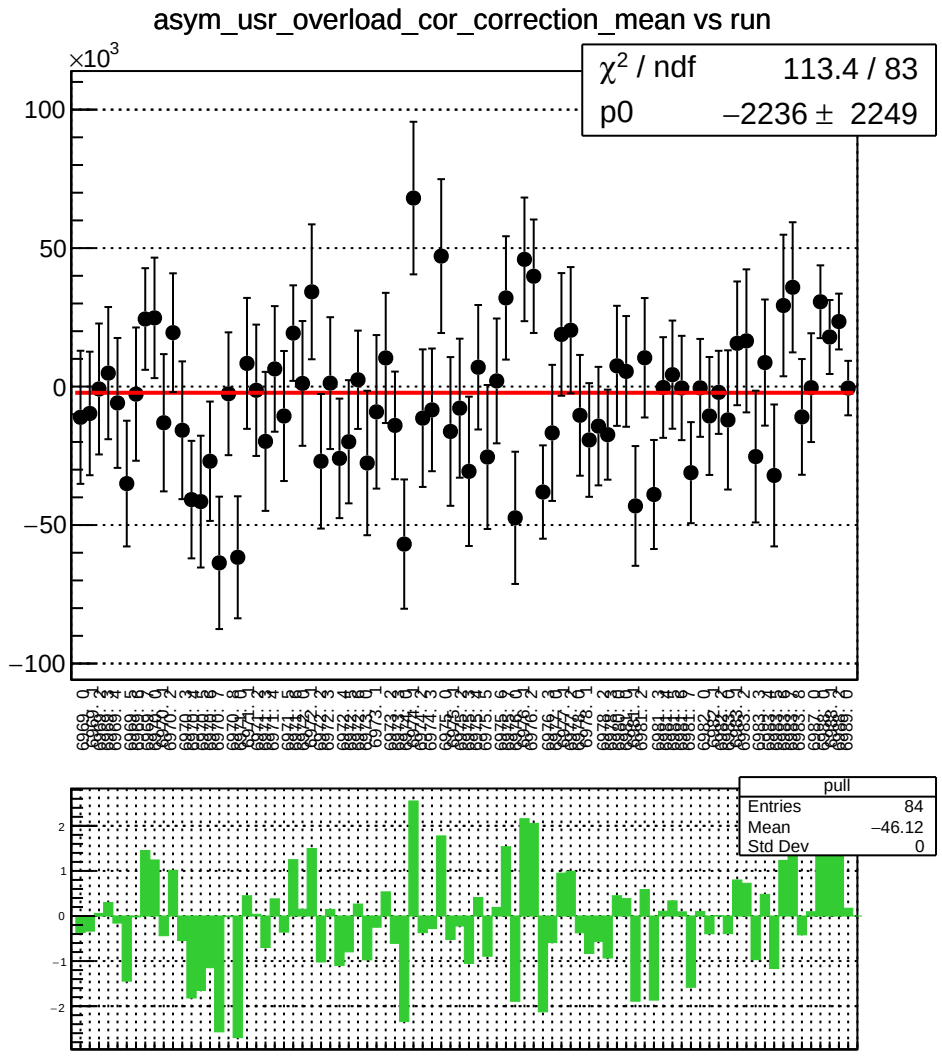

pull1D
Entries 84
Mean −0.06599
Std Dev 1.164
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

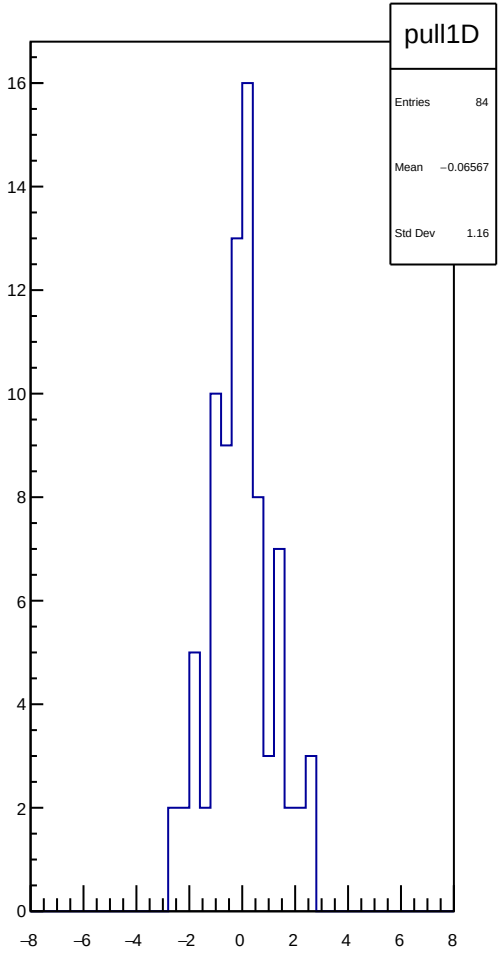

asym_usr_cor_correction_rms vs run
χ² / ndf 5.625e+04 / 83
p0 2021 ± 1.589
2600
2400
2200
2000
1800
1600
1400
1200

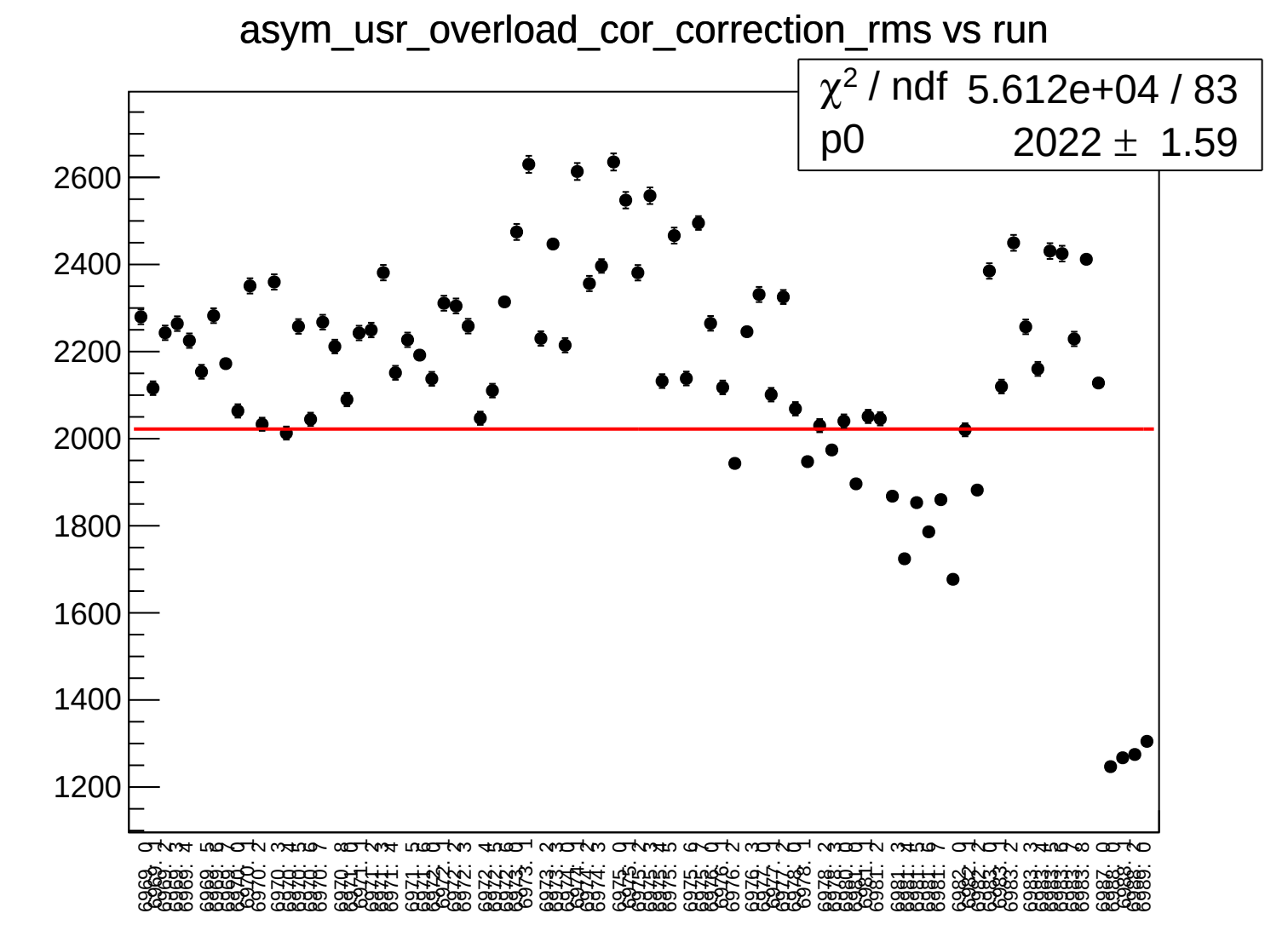

overload_cor_asym_usr_mean vs run
χ² / ndf 76.81 / 83
p0 2322 ± 1191
pull
Entries 84
Mean −2342
Std Dev 0

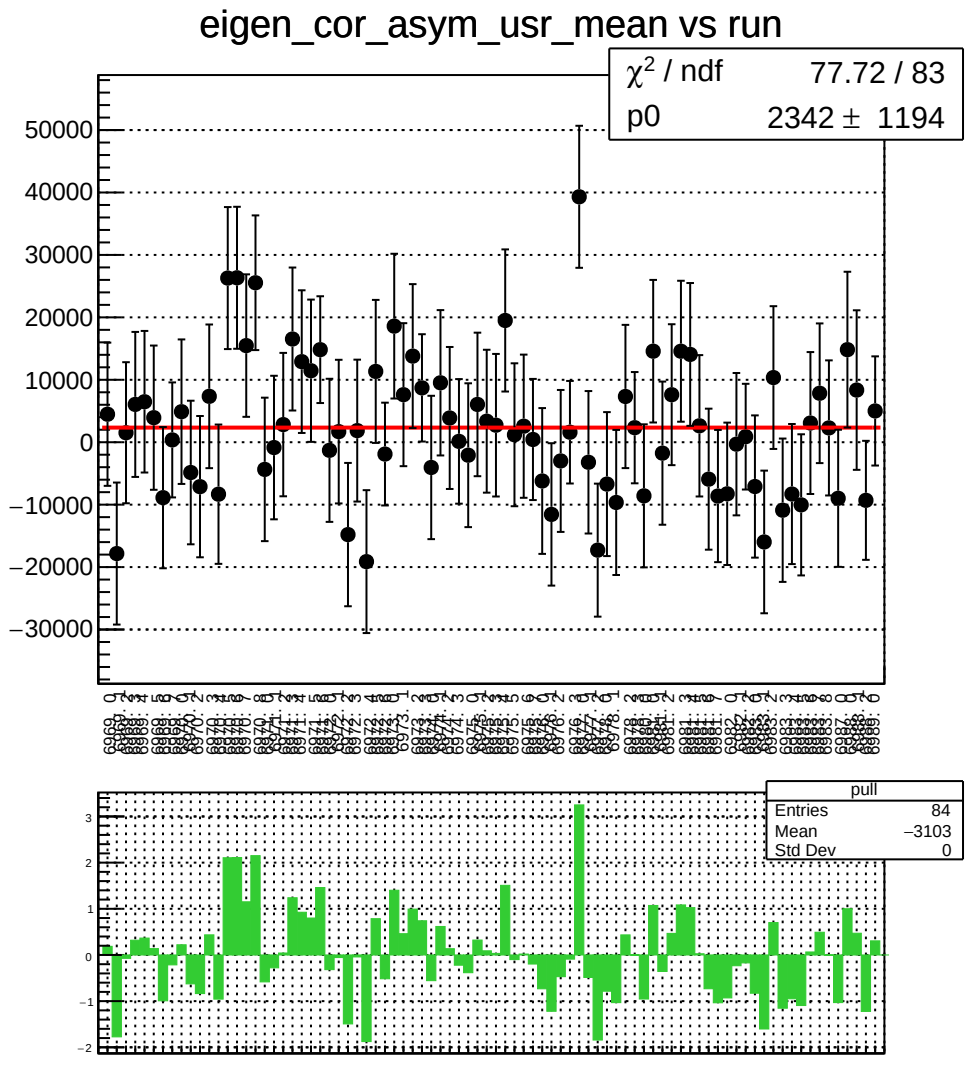

pull1D
Entries 84
Mean 0.001619
Std Dev 0.9562

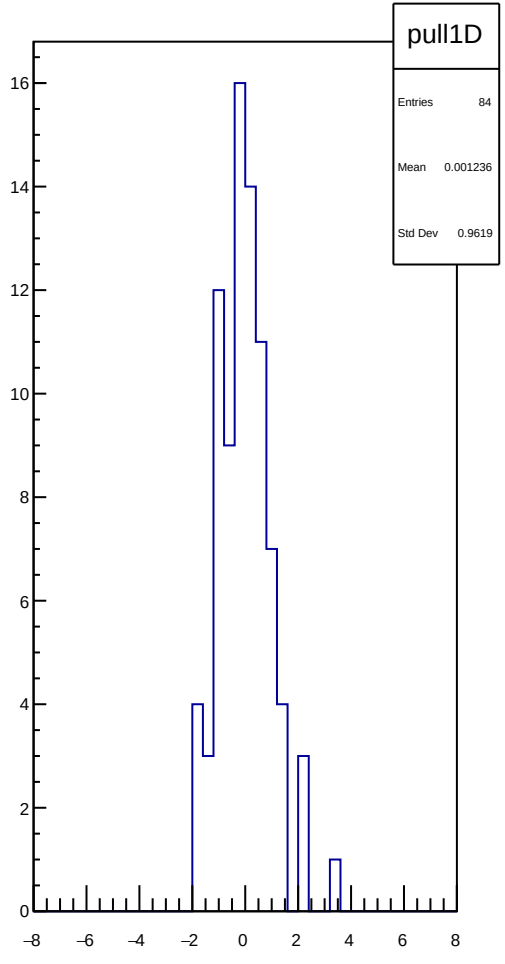

overload_cor_asym_usr_rms vs run
χ² / ndf 1413 / 83
p0 1089 ± 0.8425
1250
1200
1150
1100
1050

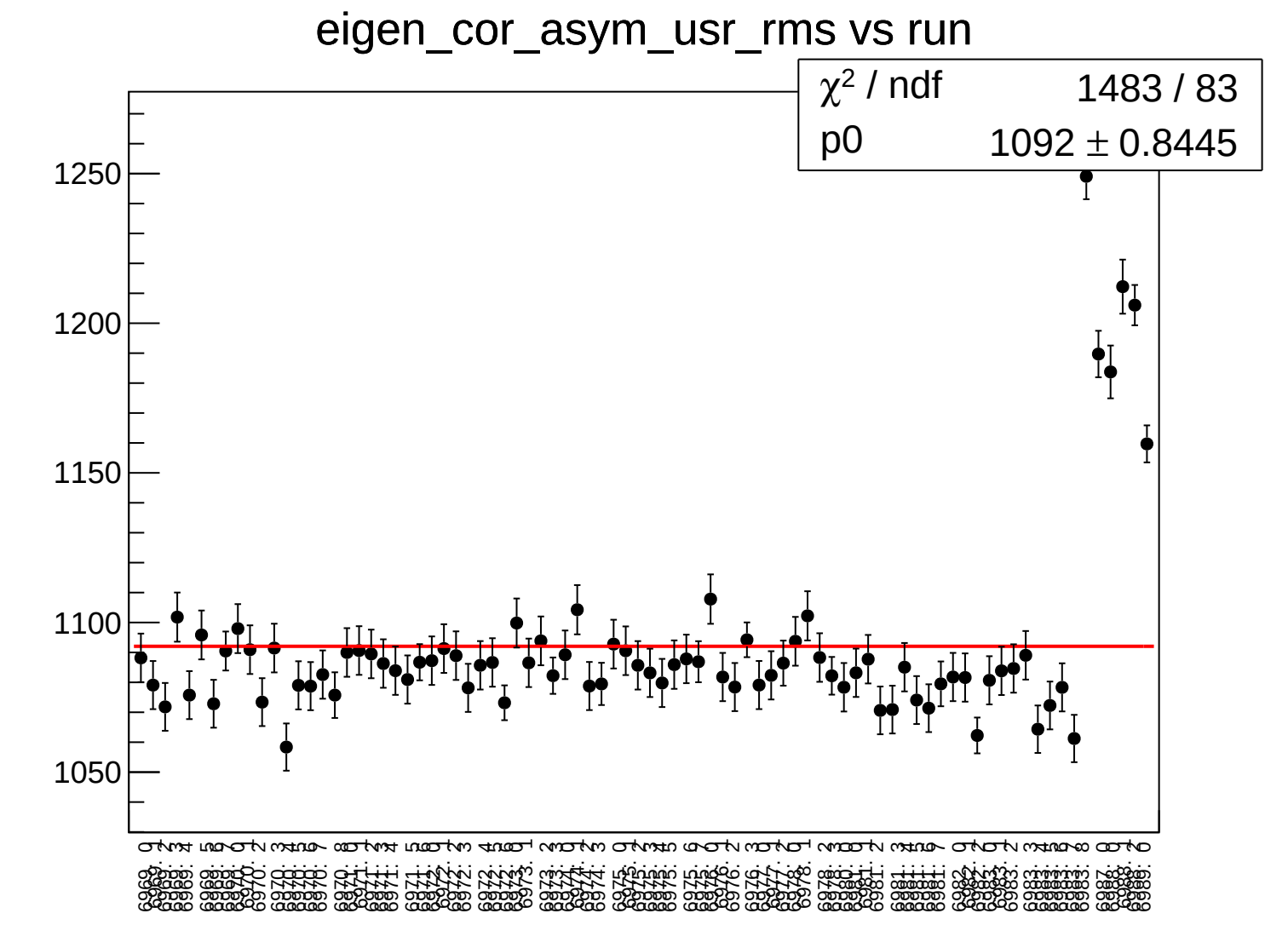

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 113.4 / 83
p0 −2236 ± 2249
100
50
0
−50
−100
pull
Entries 84
Mean −46.12
Std Dev 0
2
1
0
−1
−2

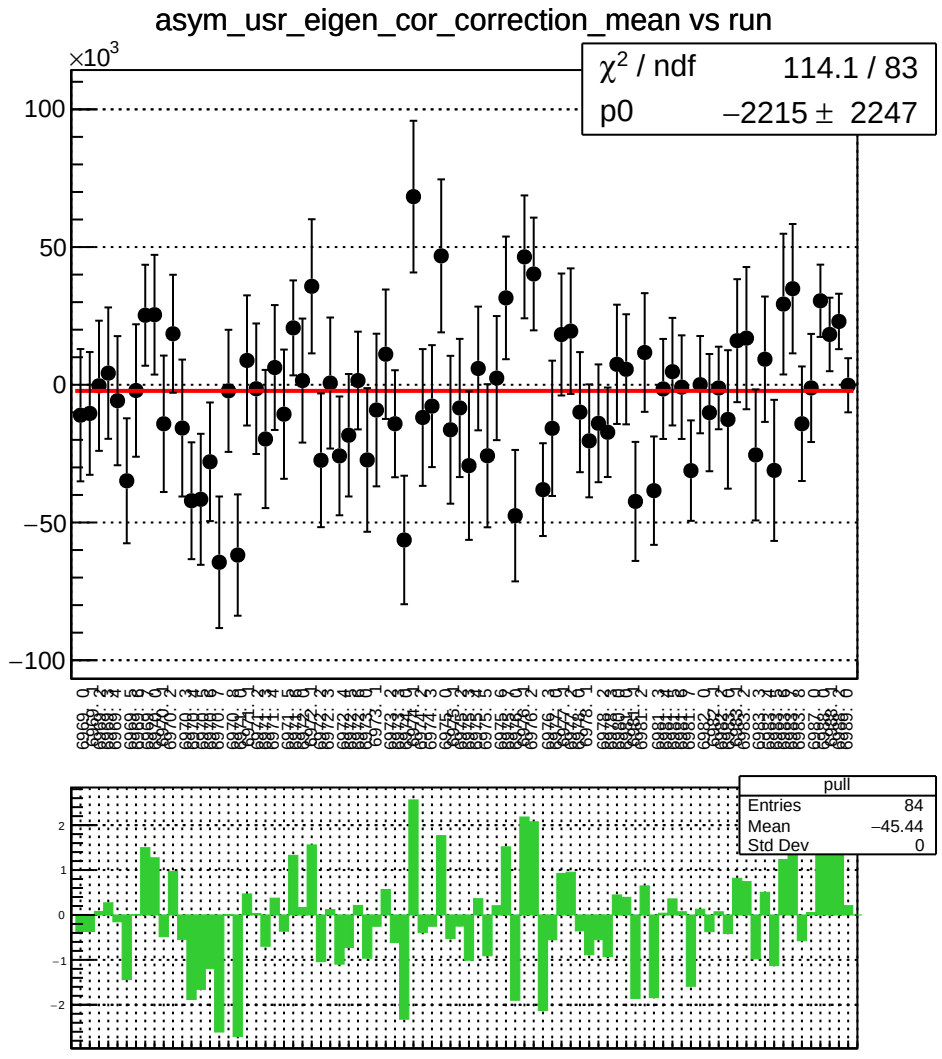

pull1D
Entries 84
Mean −0.06567
Std Dev 1.16
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

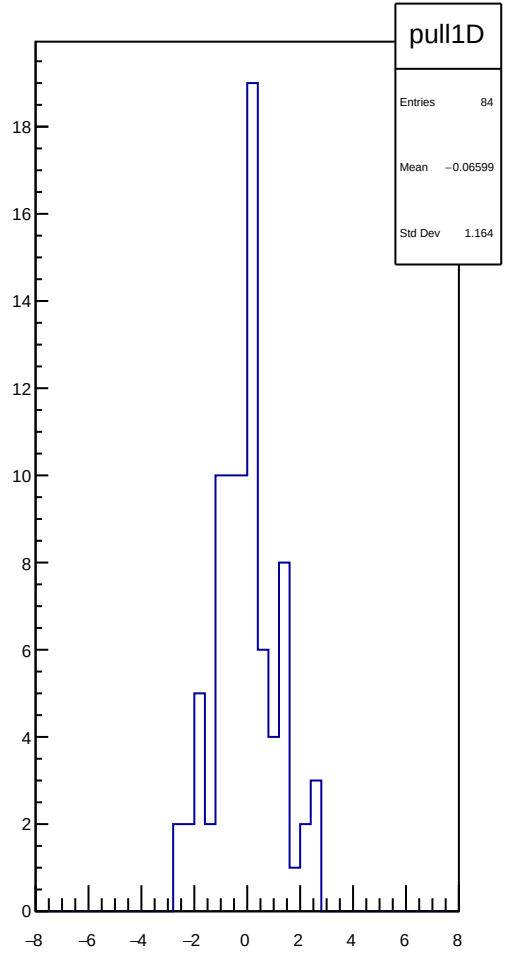

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 5.612e+04 / 83
p0 2022 ± 1.59
2600
2400
2200
2000
1800
1600
1400
1200

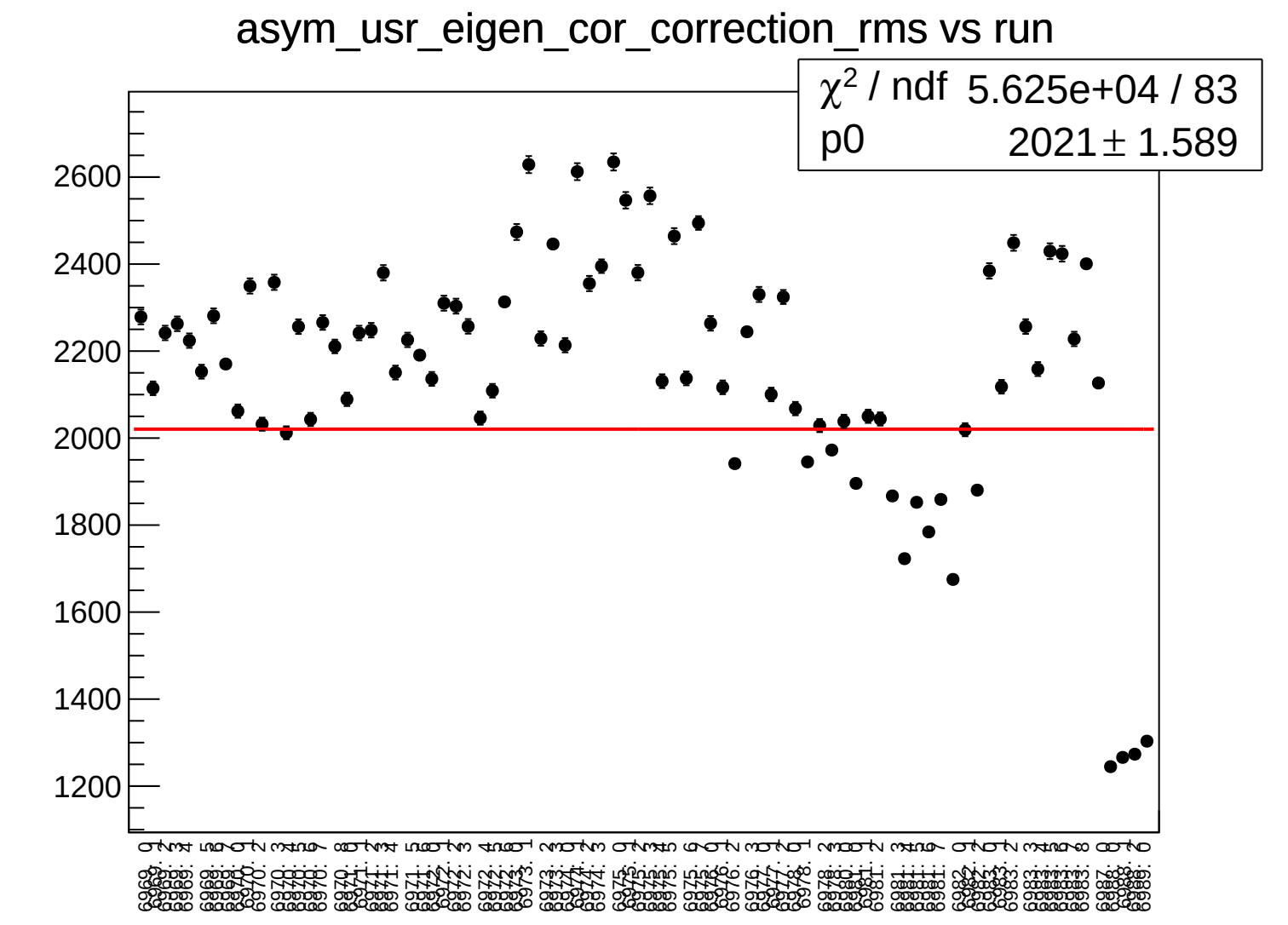

eigen_cor_asym_usr_mean vs run
χ² / ndf 77.72 / 83
p0 2342 ± 1194
pull
Entries 84
Mean −3103
Std Dev 0

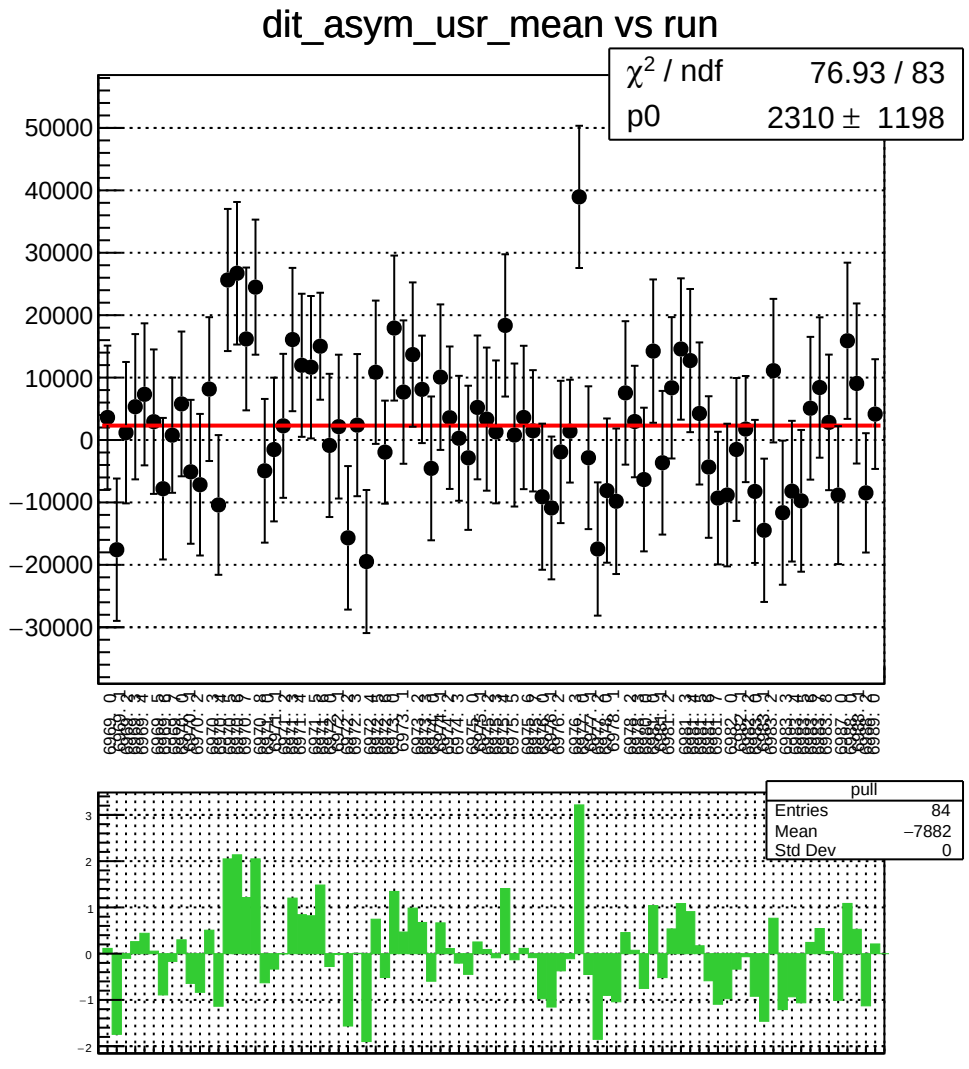

pull1D
Entries 84
Mean 0.001236
Std Dev 0.9619

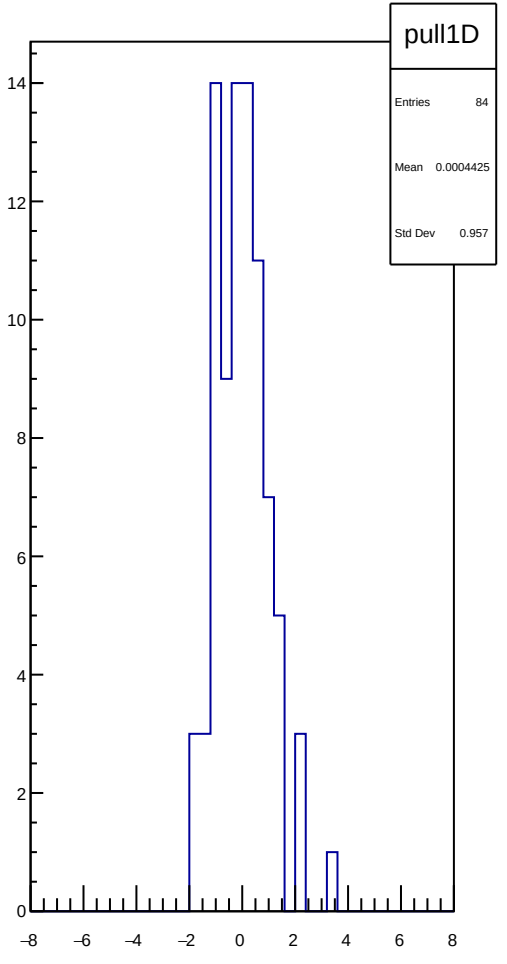

eigen_cor_asym_usr_rms vs run
χ² / ndf 1483 / 83
p0 1092 ± 0.8445
1250
1200
1150
1100
1050

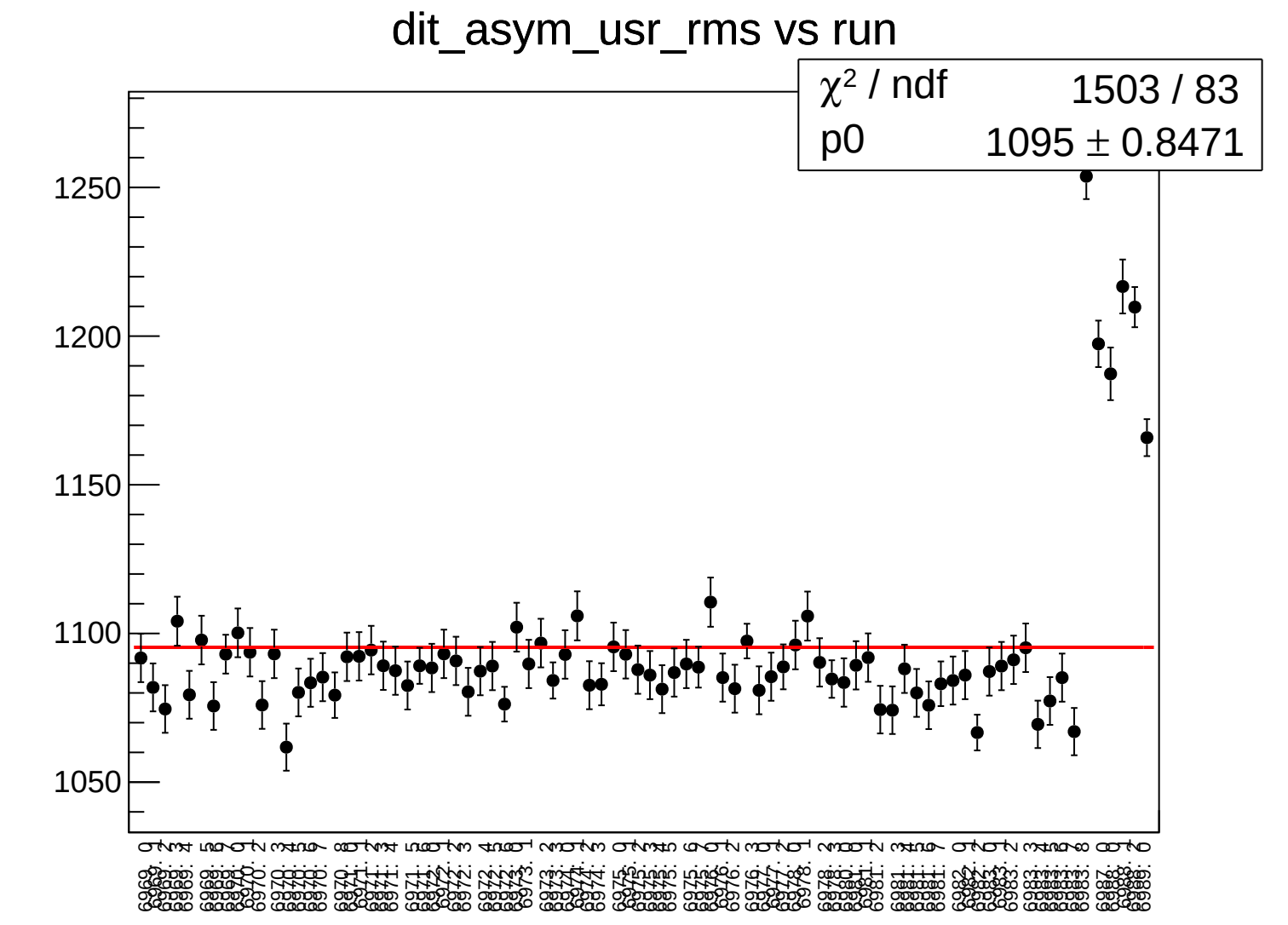

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 114.1 / 83
p0 −2215 ± 2247
100
50
0
−50
−100
pull
Entries 84
Mean −45.44
Std Dev 0
2
1
0
−1
−2

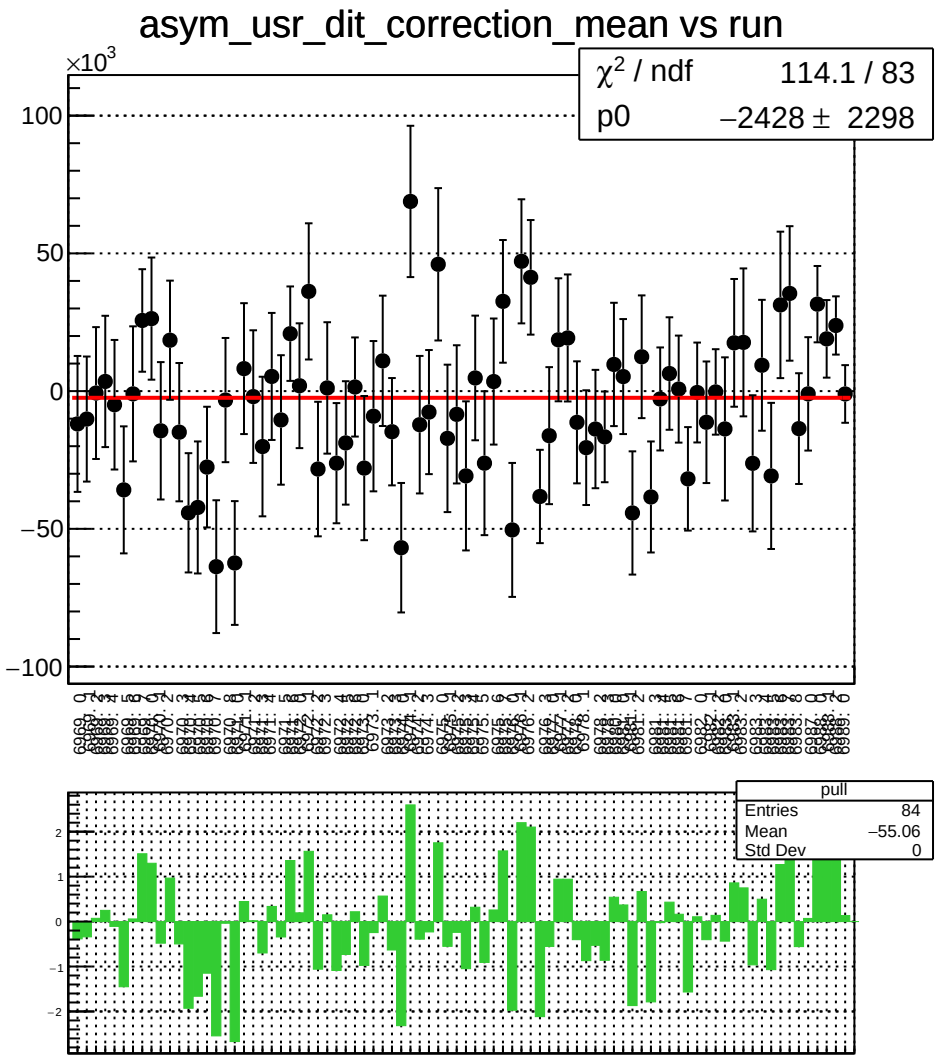

pull1D
Entries 84
Mean −0.06599
Std Dev 1.164
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

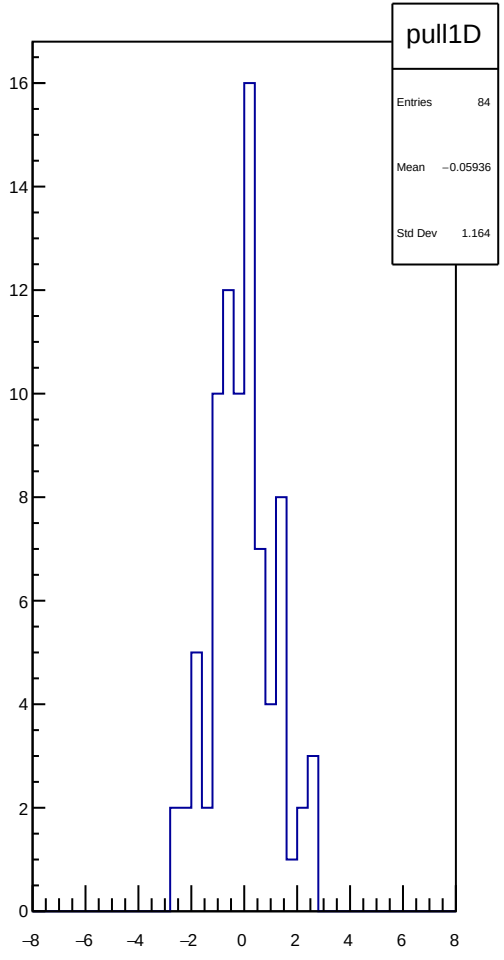

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 5.625e+04 / 83
p0 2021 ± 1.589
2600
2400
2200
2000
1800
1600
1400
1200

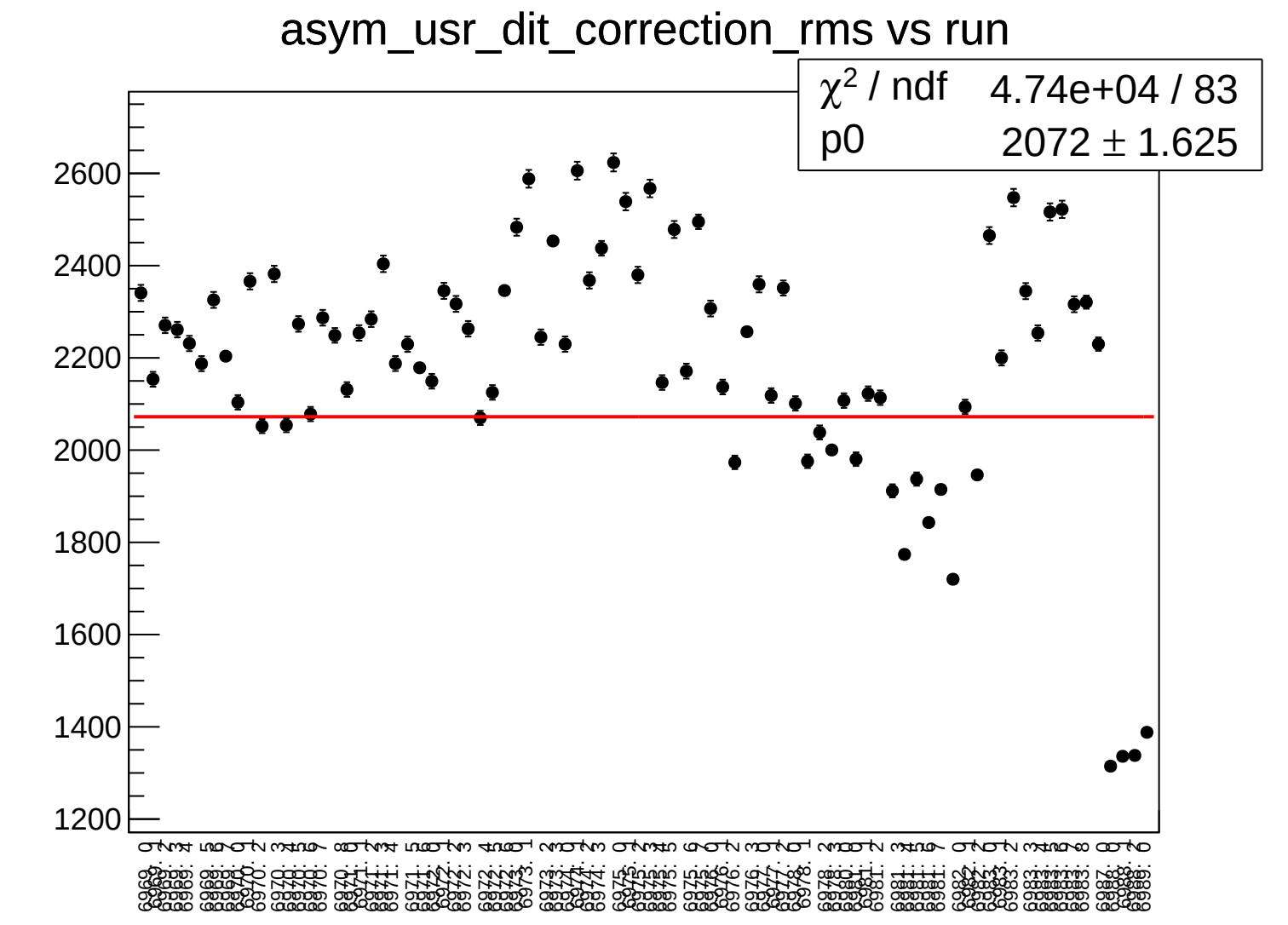

dit_asym_usr_mean vs run
χ² / ndf 76.93 / 83
p0 2310 ± 1198
pull
Entries 84
Mean −7882
Std Dev 0

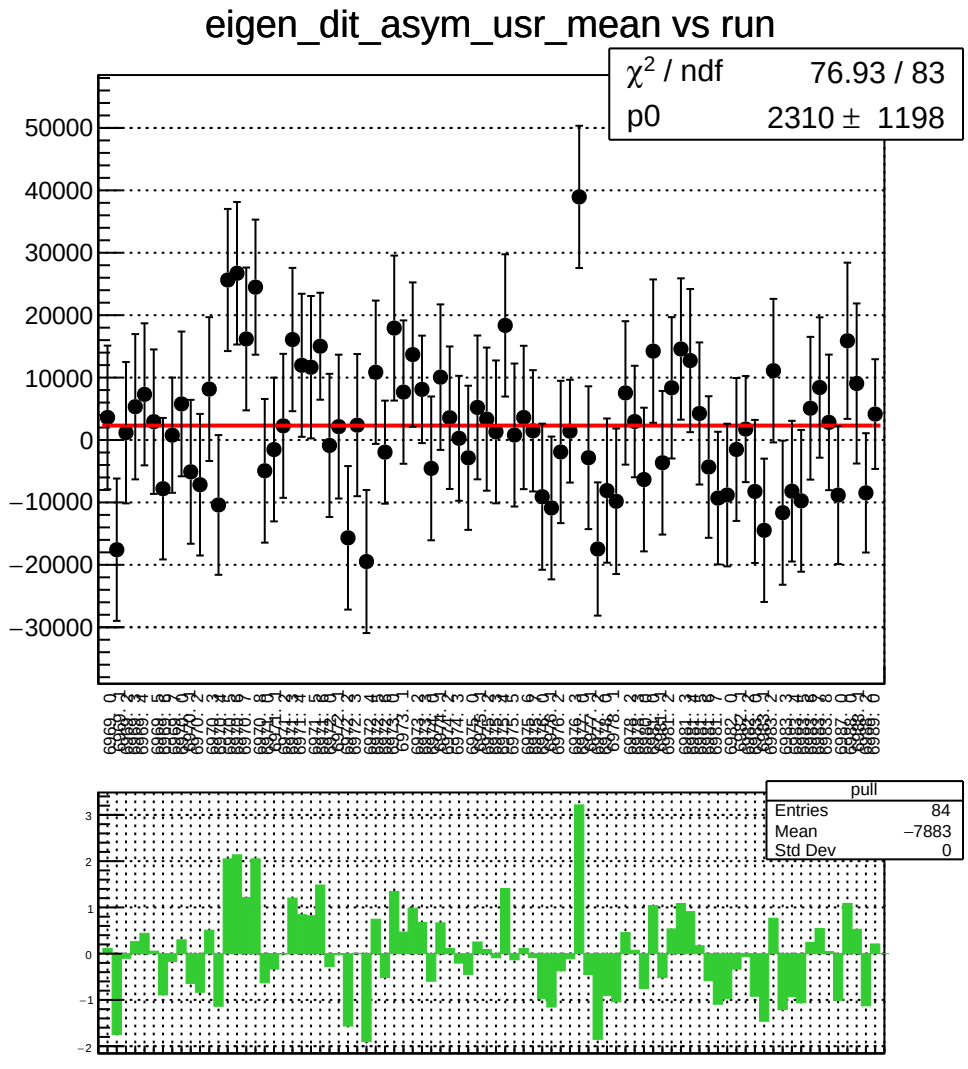

pull1D
Entries 84
Mean 0.0004425
Std Dev 0.957

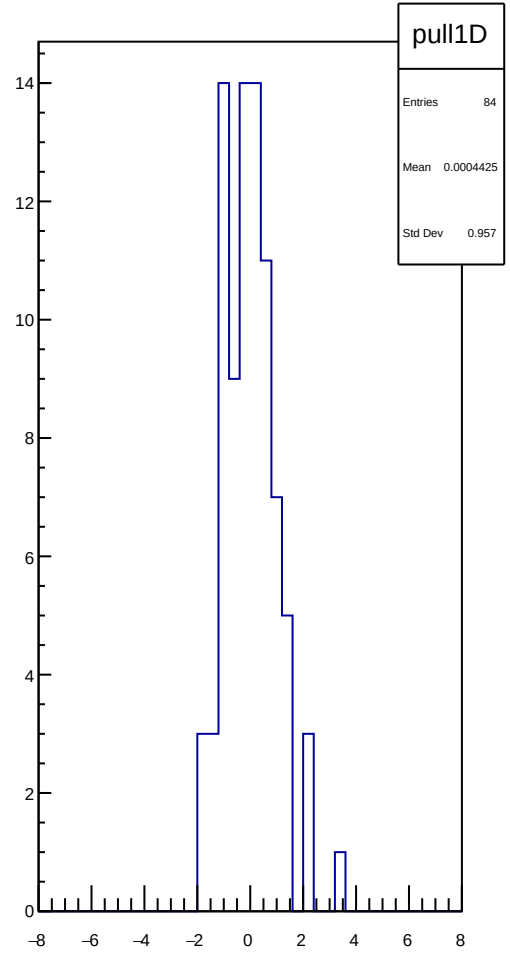

dit_asym_usr_rms vs run
χ² / ndf 1503 / 83
p0 1095 ± 0.8471
1250
1200
1150
1100
1050

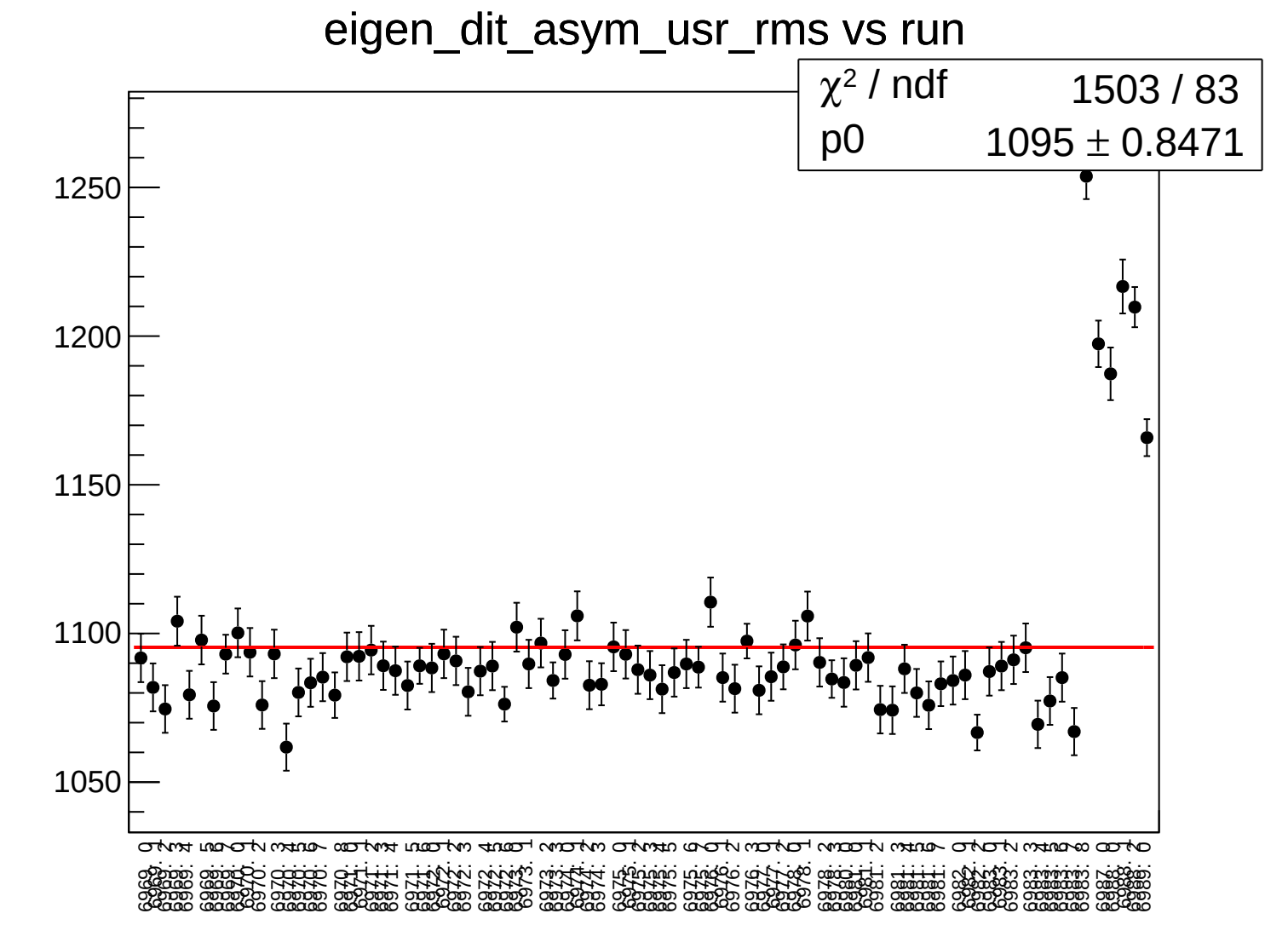

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 114.1 / 83
p0 −2428 ± 2298
100
50
0
−50
−100
pull
Entries 84
Mean −55.06
Std Dev 0
2
1
0
−1
−2

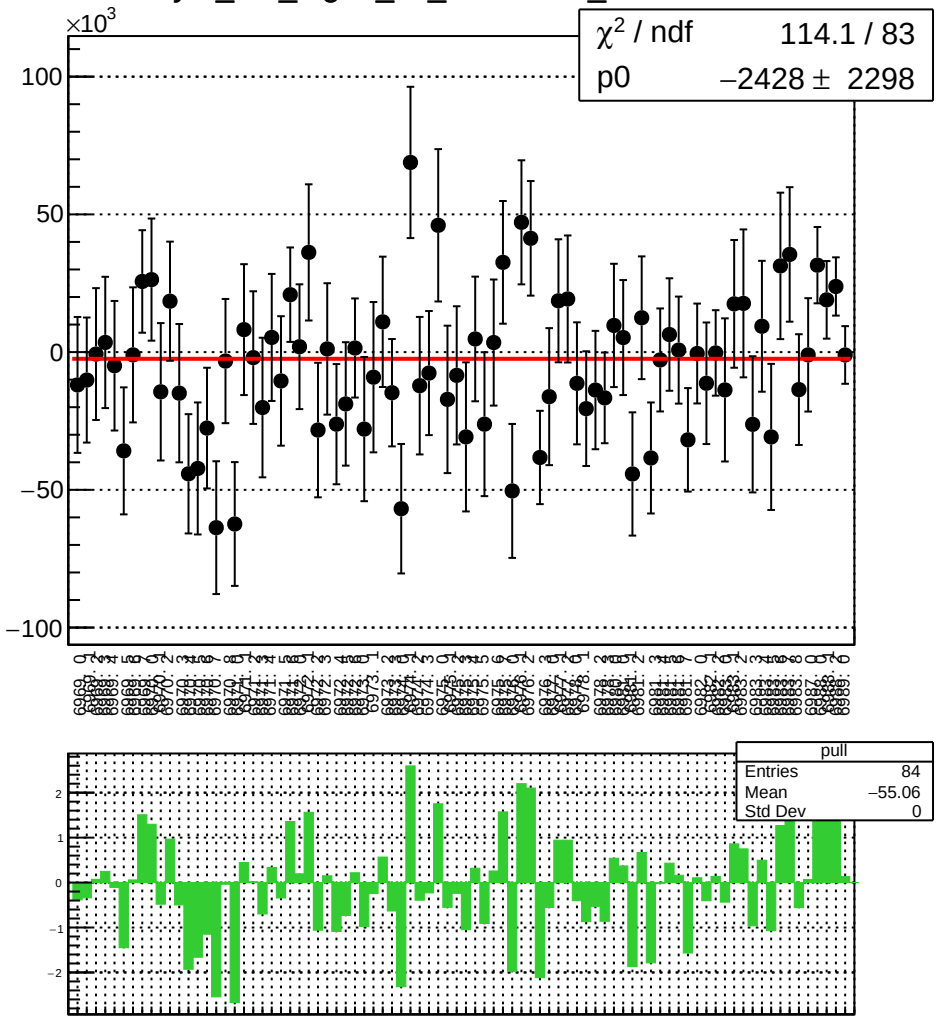

pull1D
Entries 84
Mean −0.05936
Std Dev 1.164
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

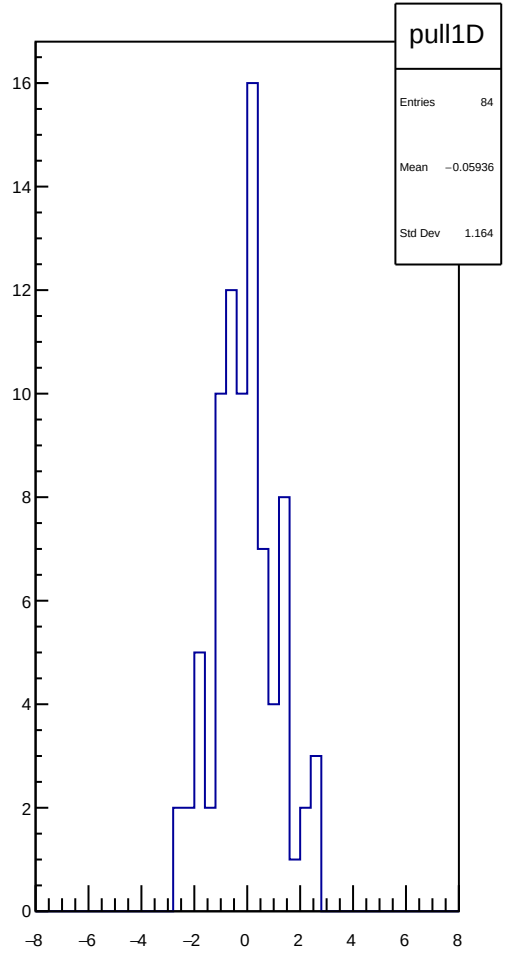

asym_usr_dit_correction_rms vs run
χ² / ndf 4.74e+04 / 83
p0 2072 ± 1.625
2600
2400
2200
2000
1800
1600
1400
1200

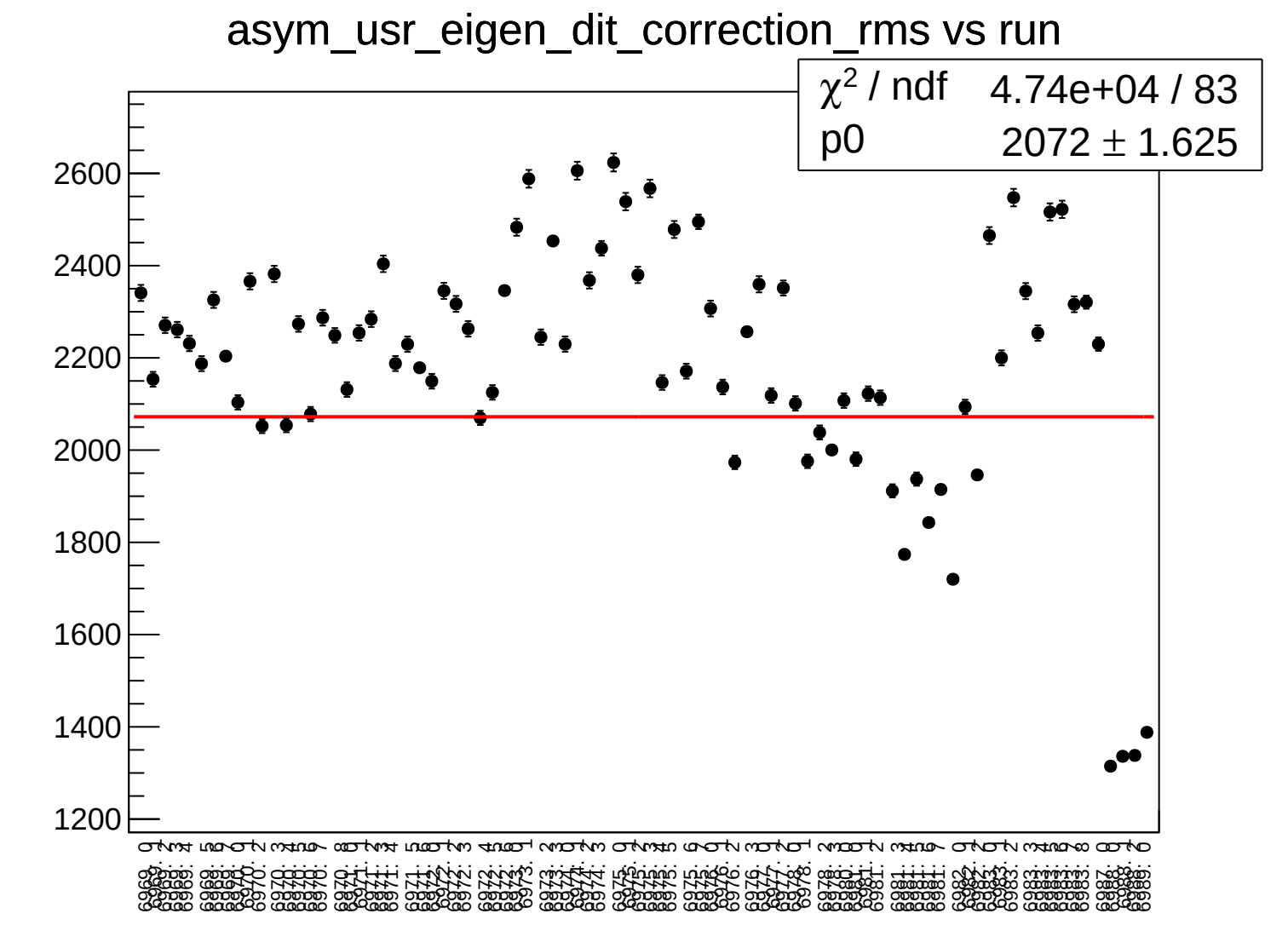

eigen_dit_asym_usr_mean vs run
χ² / ndf 76.93 / 83
p0 2310 ± 1198
pull
Entries 84
Mean −7883
Std Dev 0

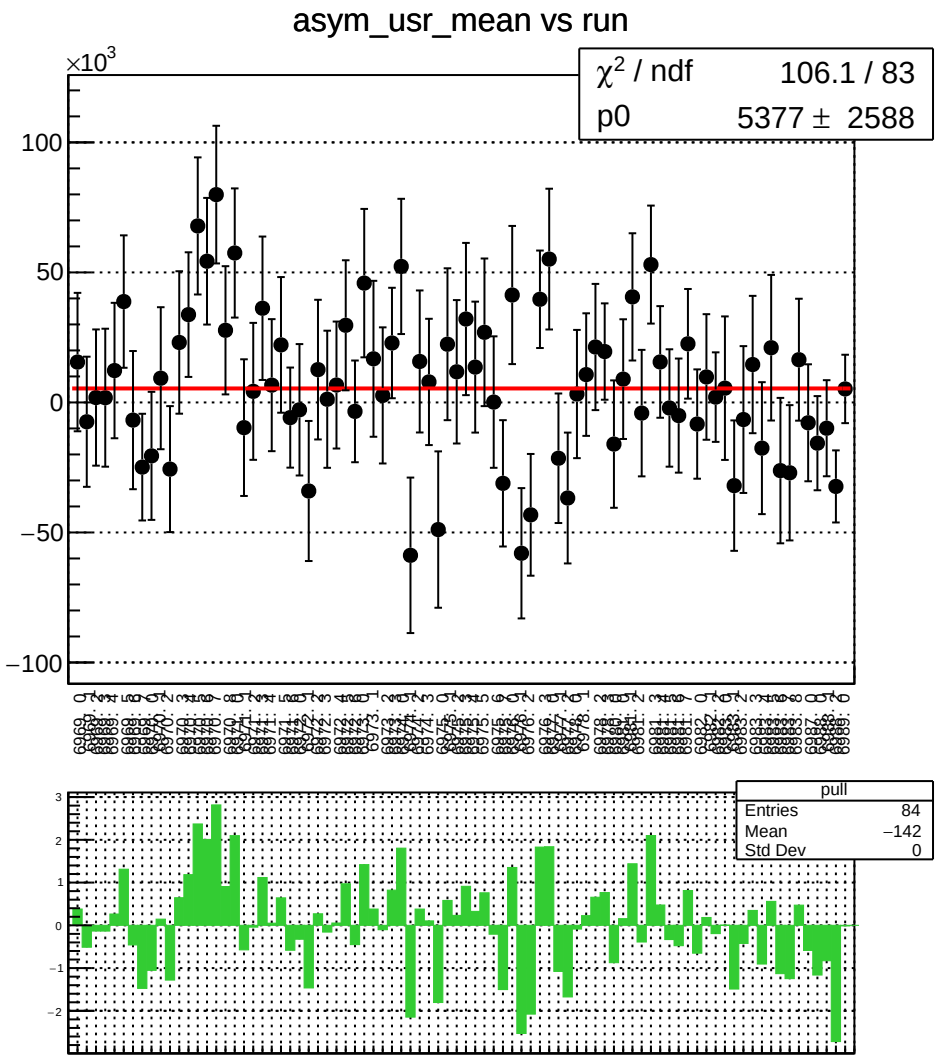

pull1D
Entries 84
Mean 0.0004425
Std Dev 0.957

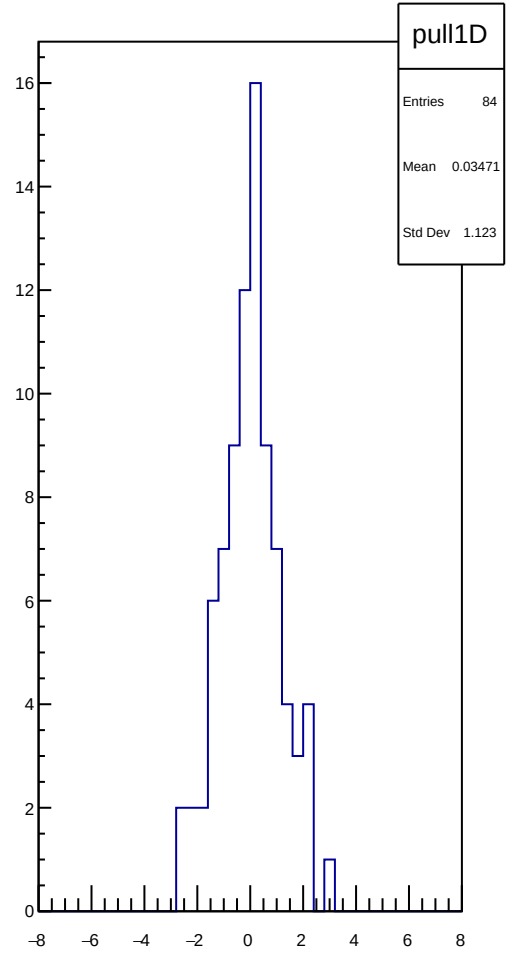

eigen_dit_asym_usr_rms vs run
χ² / ndf 1503 / 83
p0 1095 ± 0.8471
1250
1200
1150
1100
1050

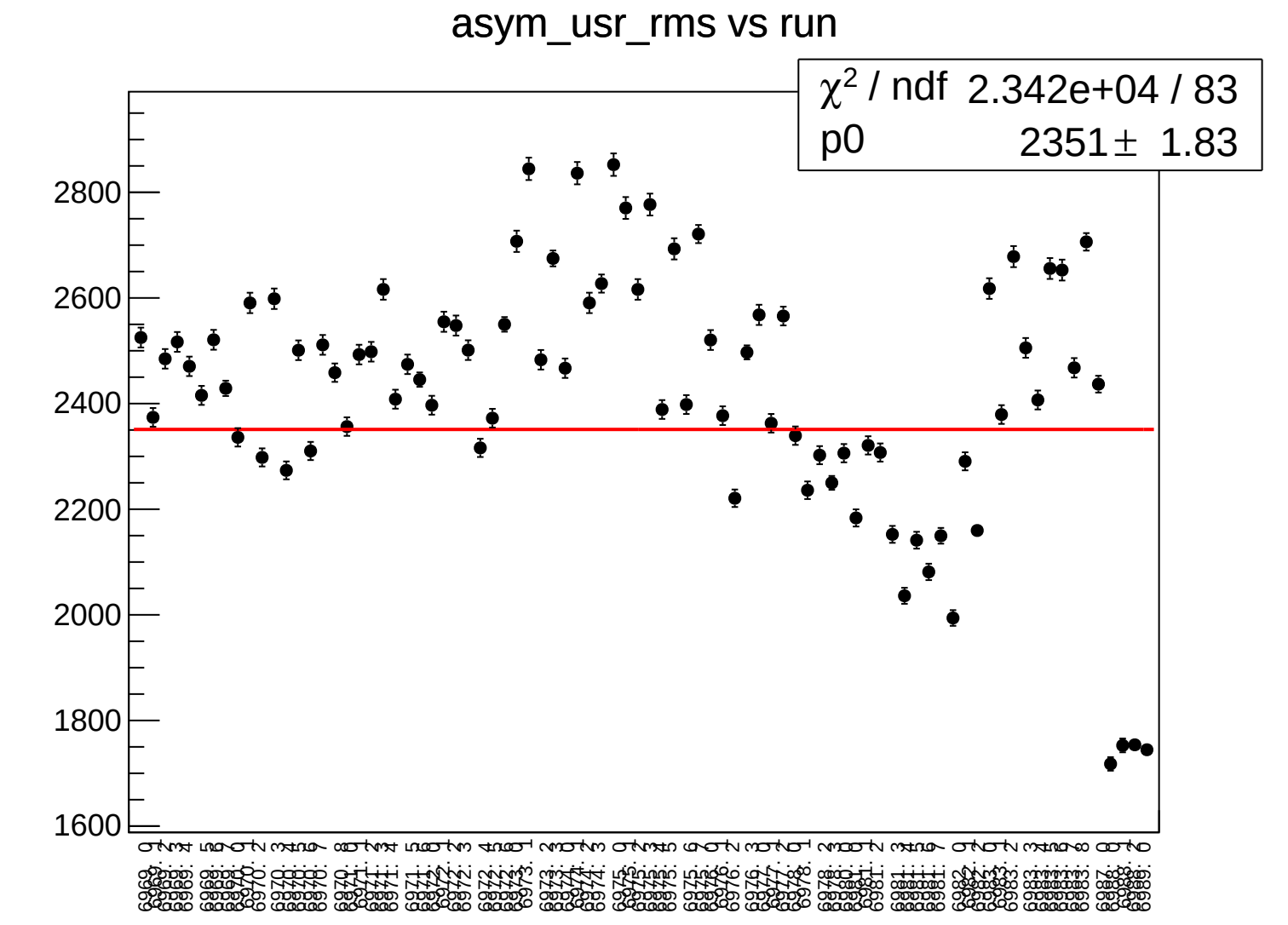

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 114.1 / 83
p0 −2428 ± 2298
100
50
0
−50
−100
pull
Entries 84
Mean −55.06
Std Dev 0
2
1
0
−1
−2

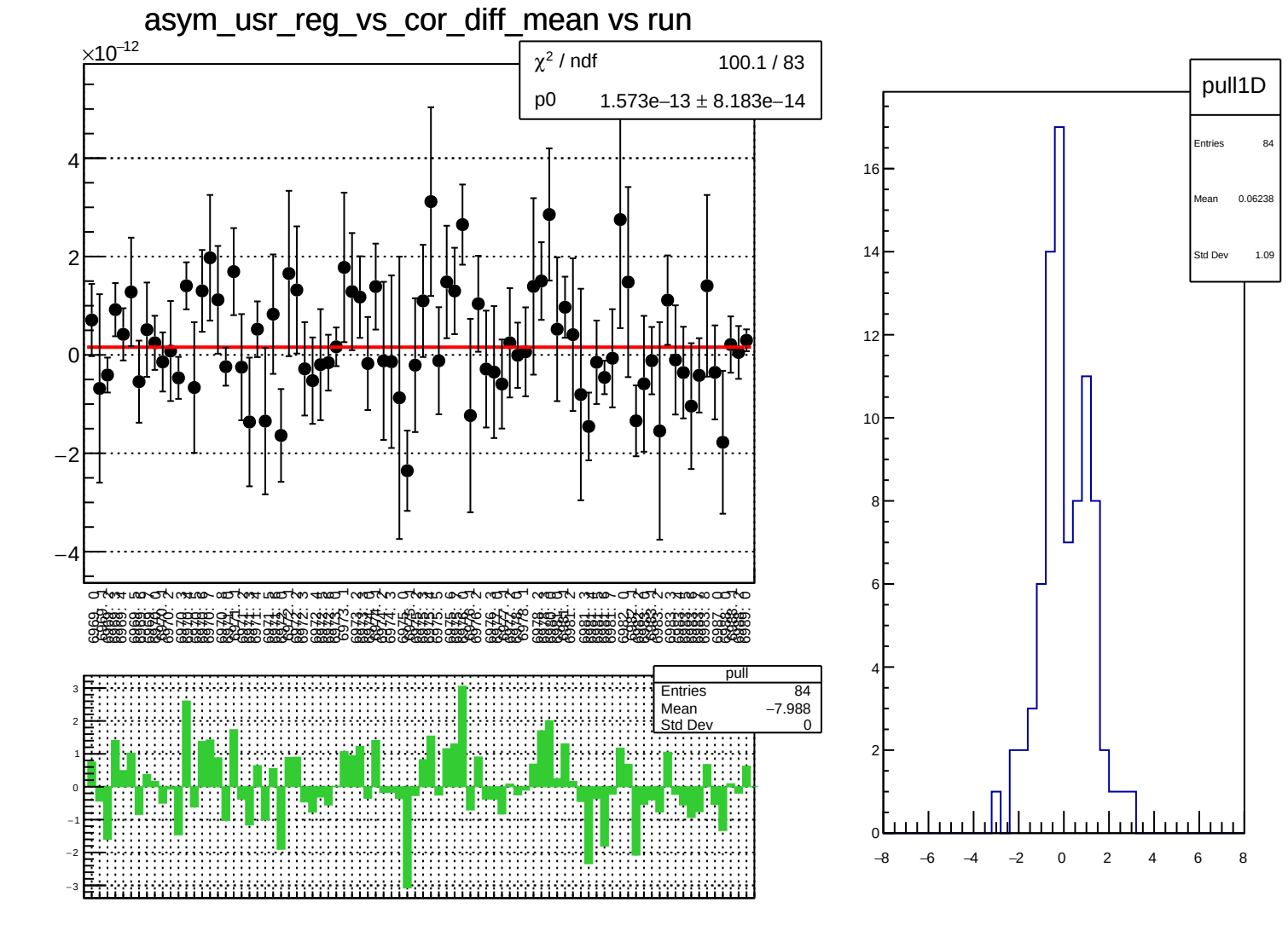

pull1D
Entries 84
Mean −0.05936
Std Dev 1.164
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

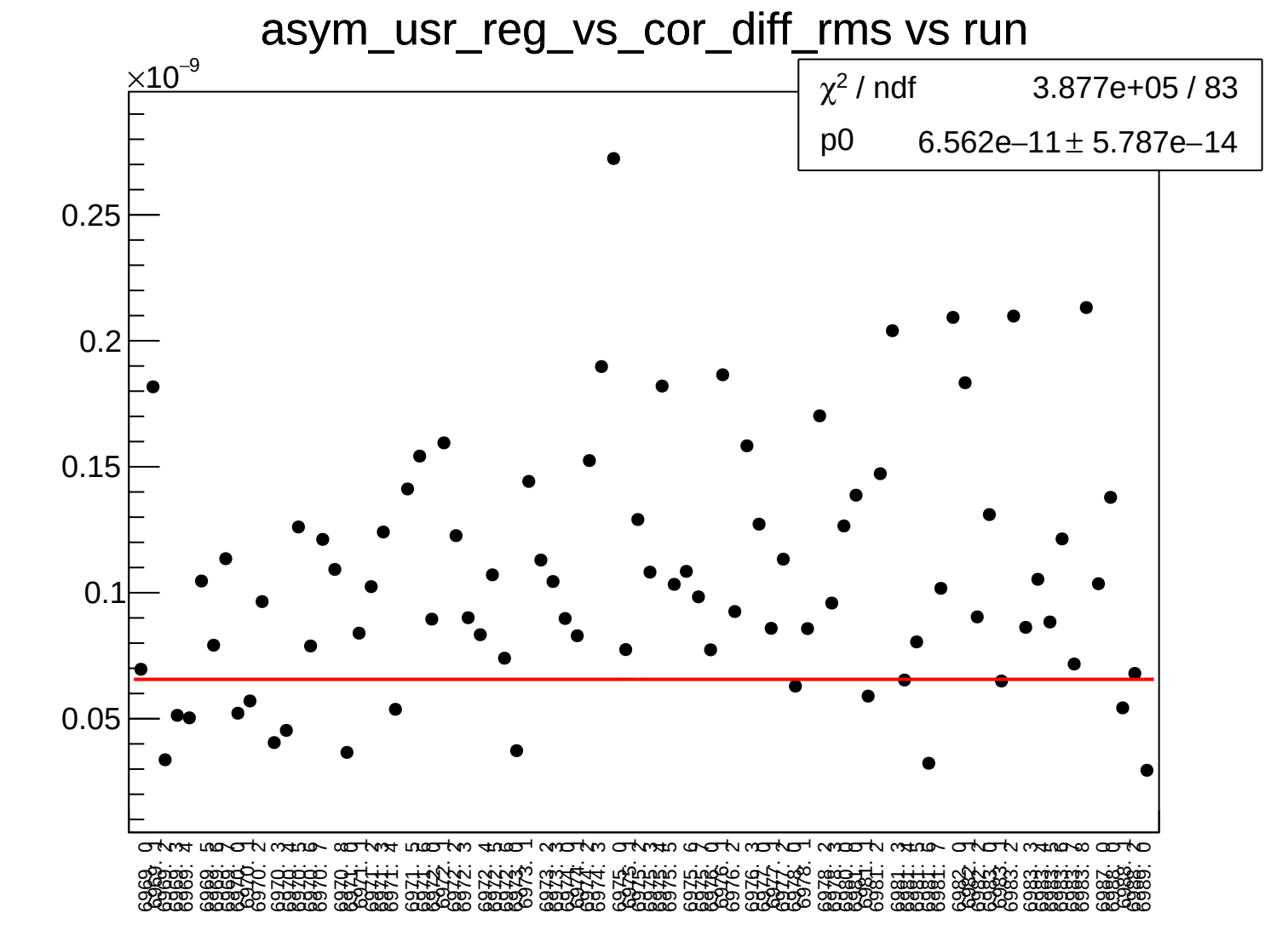

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 4.74e+04 / 83
p0 2072 ± 1.625
2600
2400
2200
2000
1800
1600
1400
1200

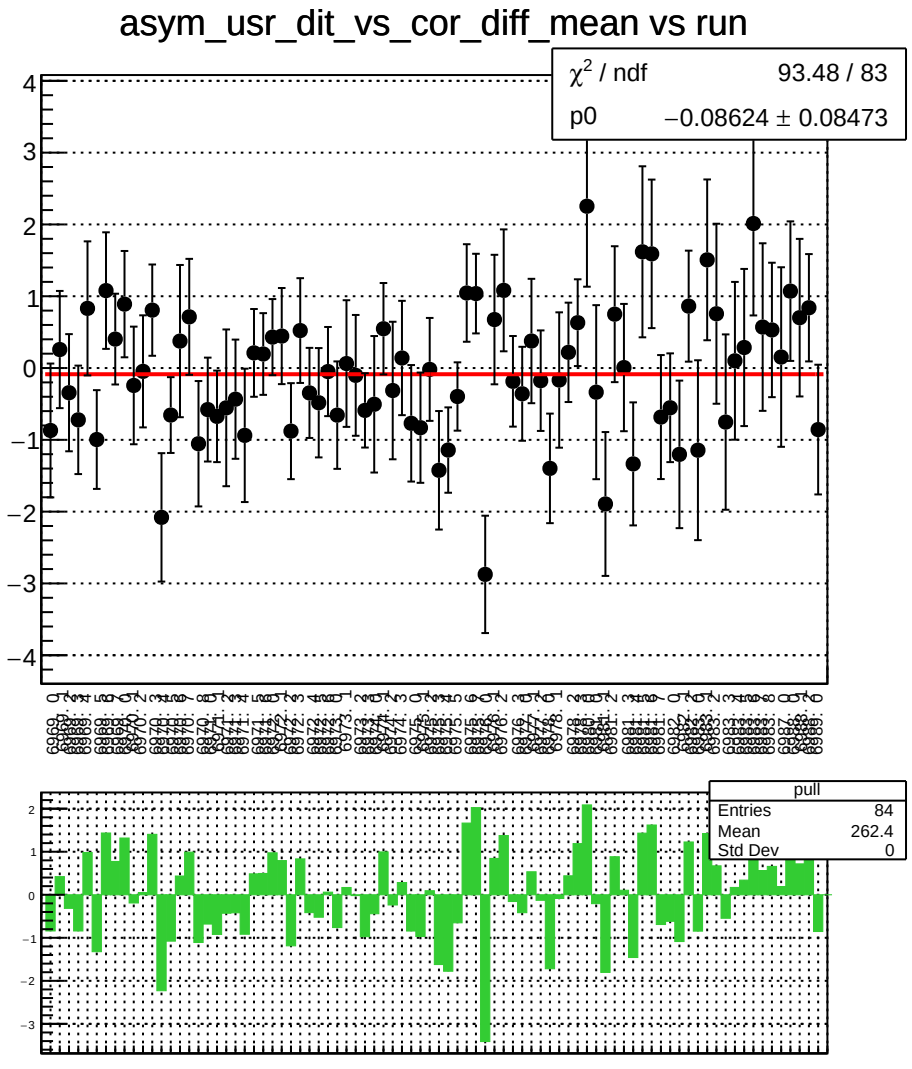

asym_usr_mean vs run
×10^3
χ² / ndf 106.1 / 83
p0 5377 ± 2588
100
50
0
−50
−100
pull
Entries 84
Mean −142
Std Dev 0
3
2
1
0
−1
−2

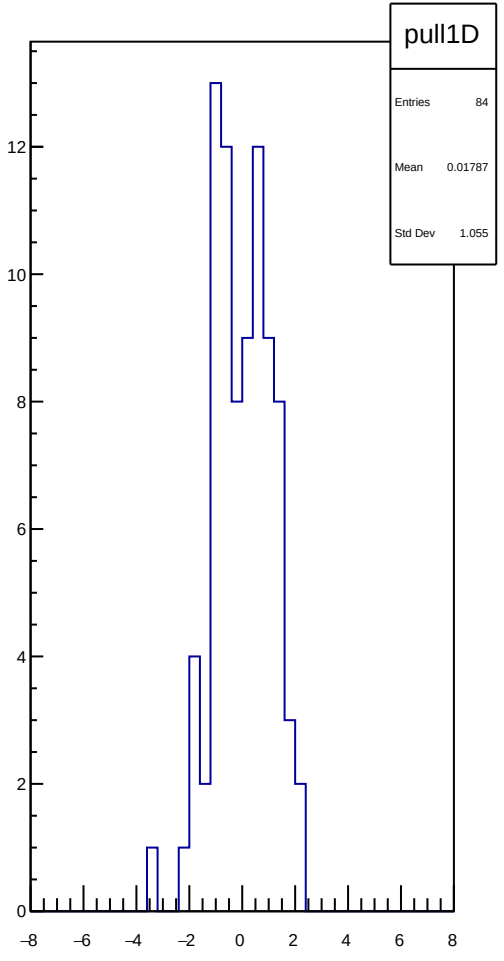

pull1D
Entries 84
Mean 0.03471
Std Dev 1.123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

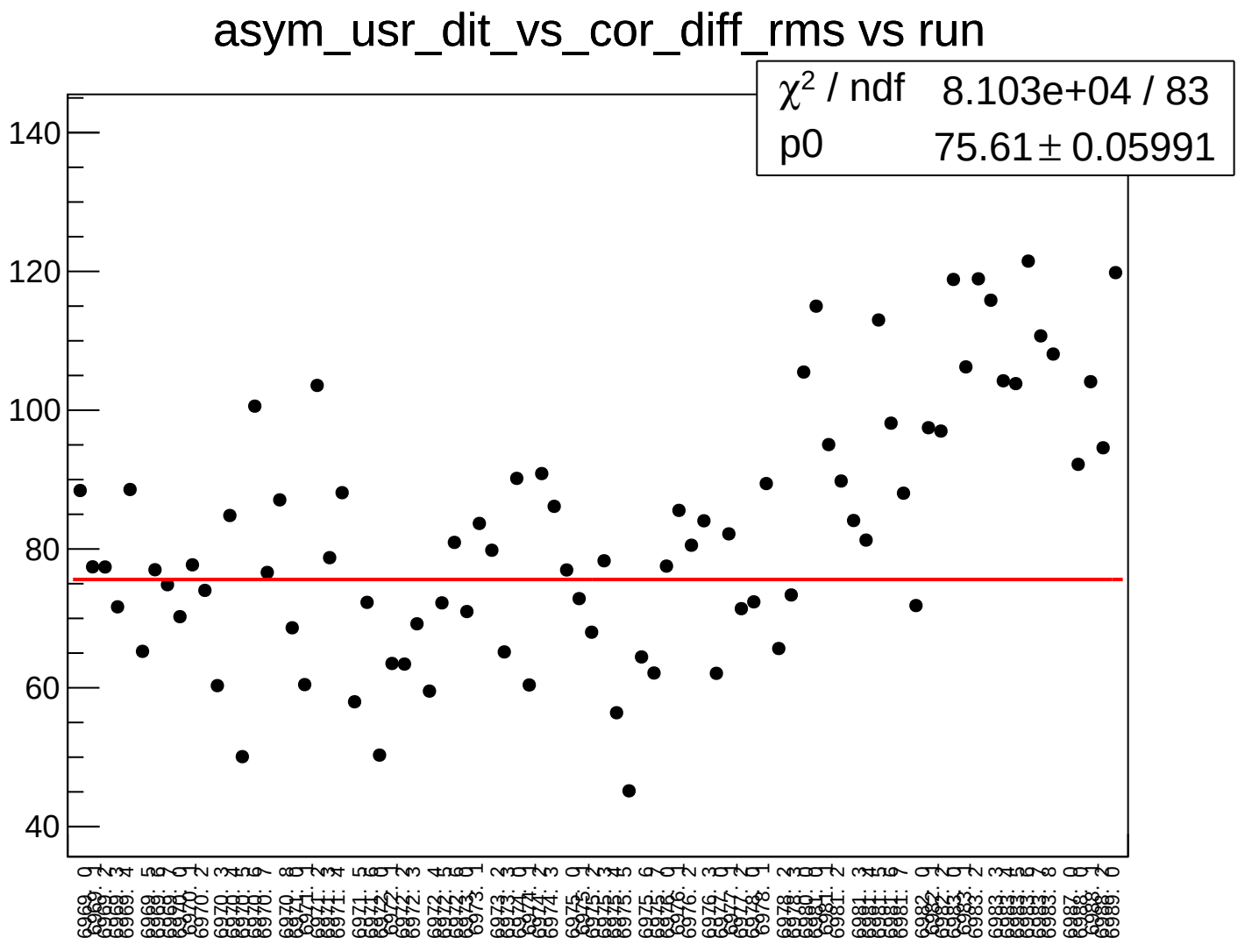

asym_usr_rms vs run
χ² / ndf 2.342e+04 / 83
p0 2351 ± 1.83
2800
2600
2400
2200
2000
1800
1600

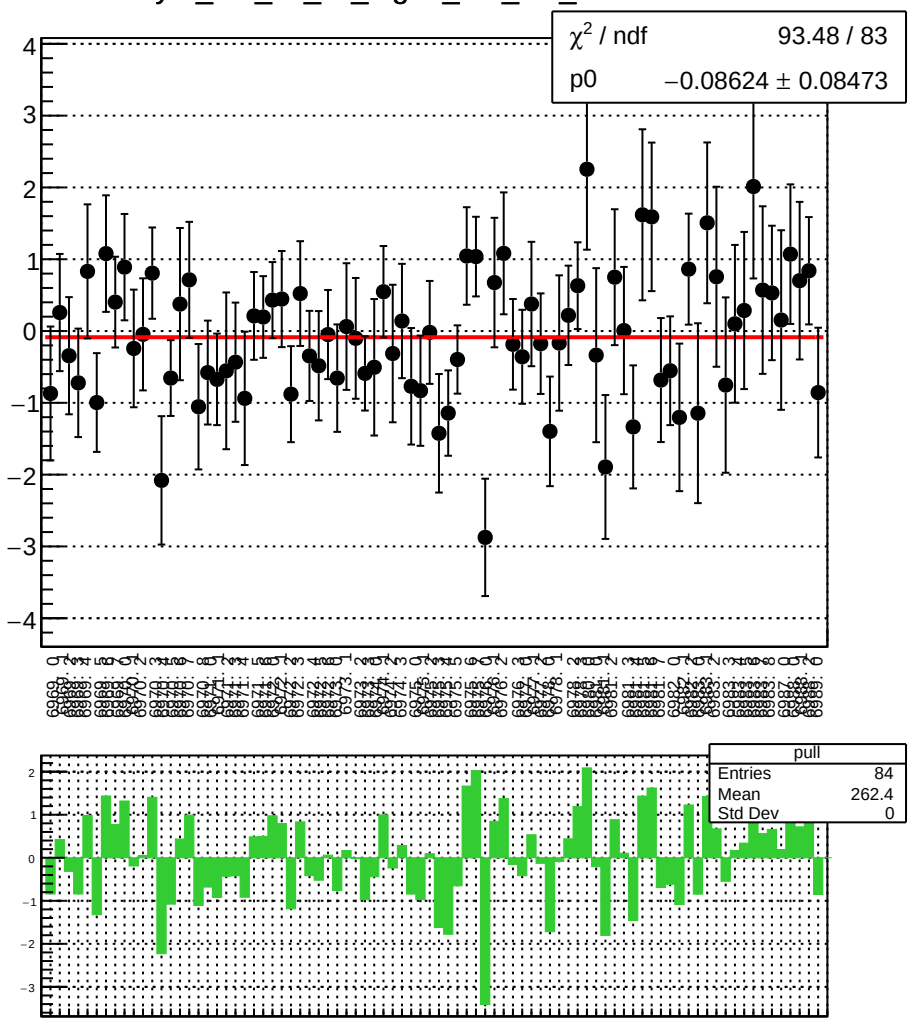

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.1 / 83
p0 1.573e−13 ± 8.183e−14
pull
Entries 84
Mean −7.988
Std Dev 0
pull1D
Entries 84
Mean 0.06238
Std Dev 1.09

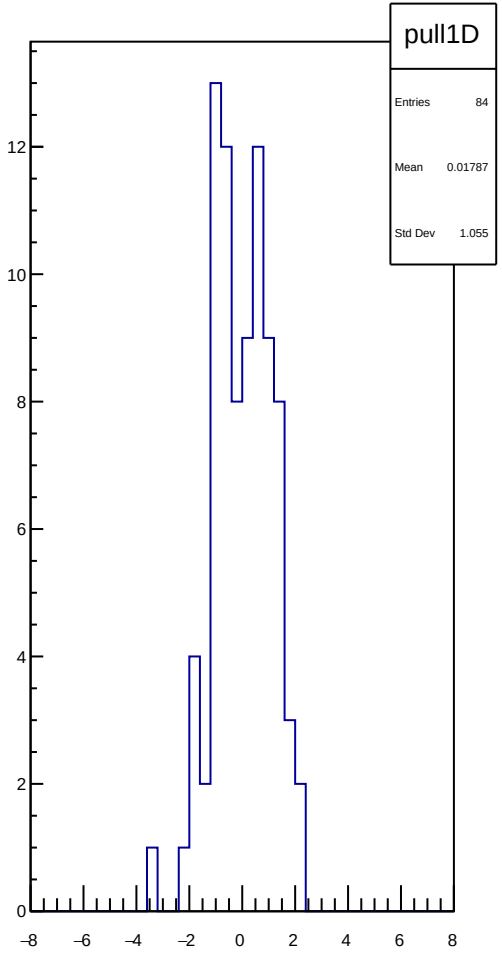

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.877e+05 / 83
p0 6.562e−11 ± 5.787e−14
0.25
0.2
0.15
0.1
0.05

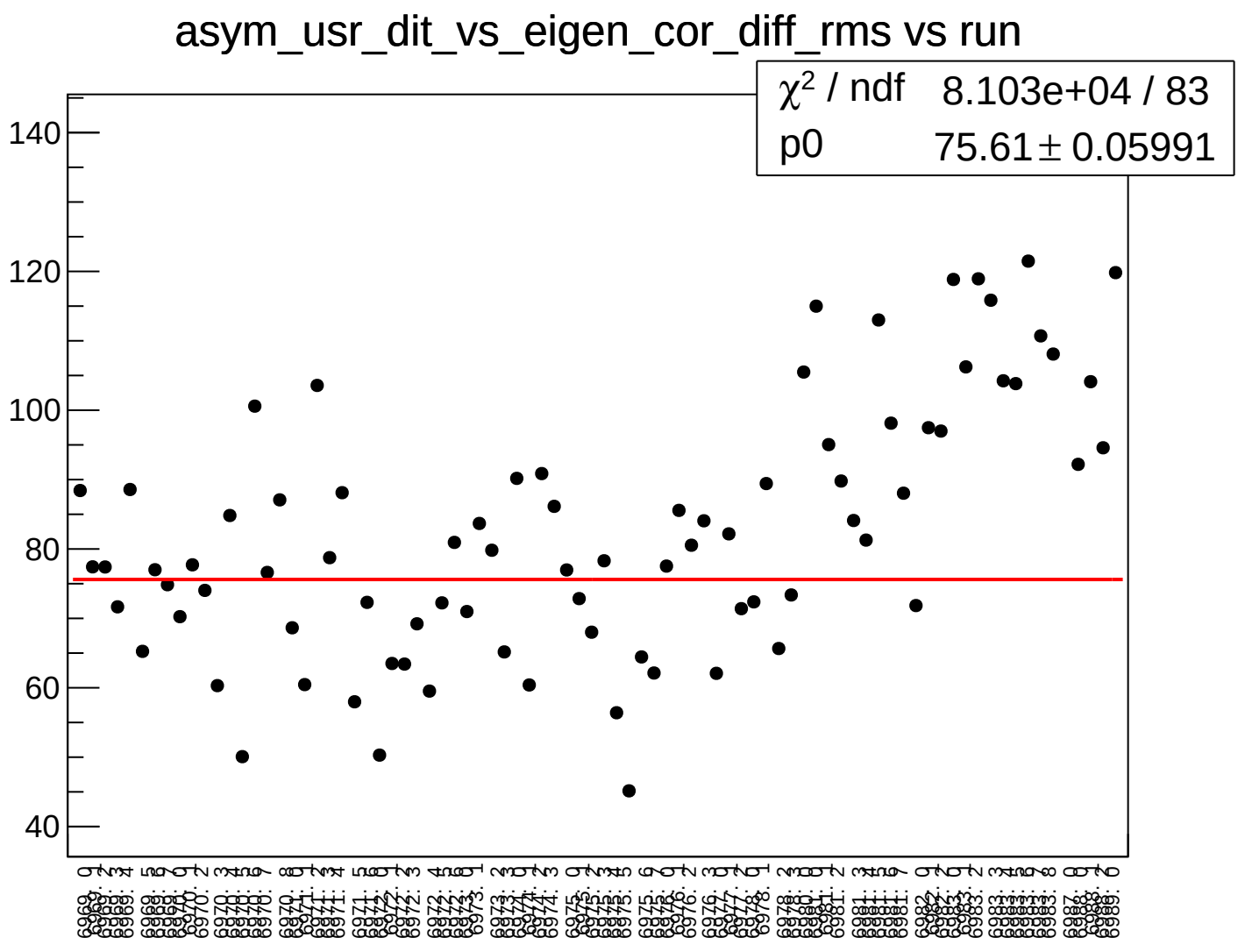

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 93.48 / 83
p0 −0.08624 ± 0.08473
pull
Entries 84
Mean 262.4
Std Dev 0

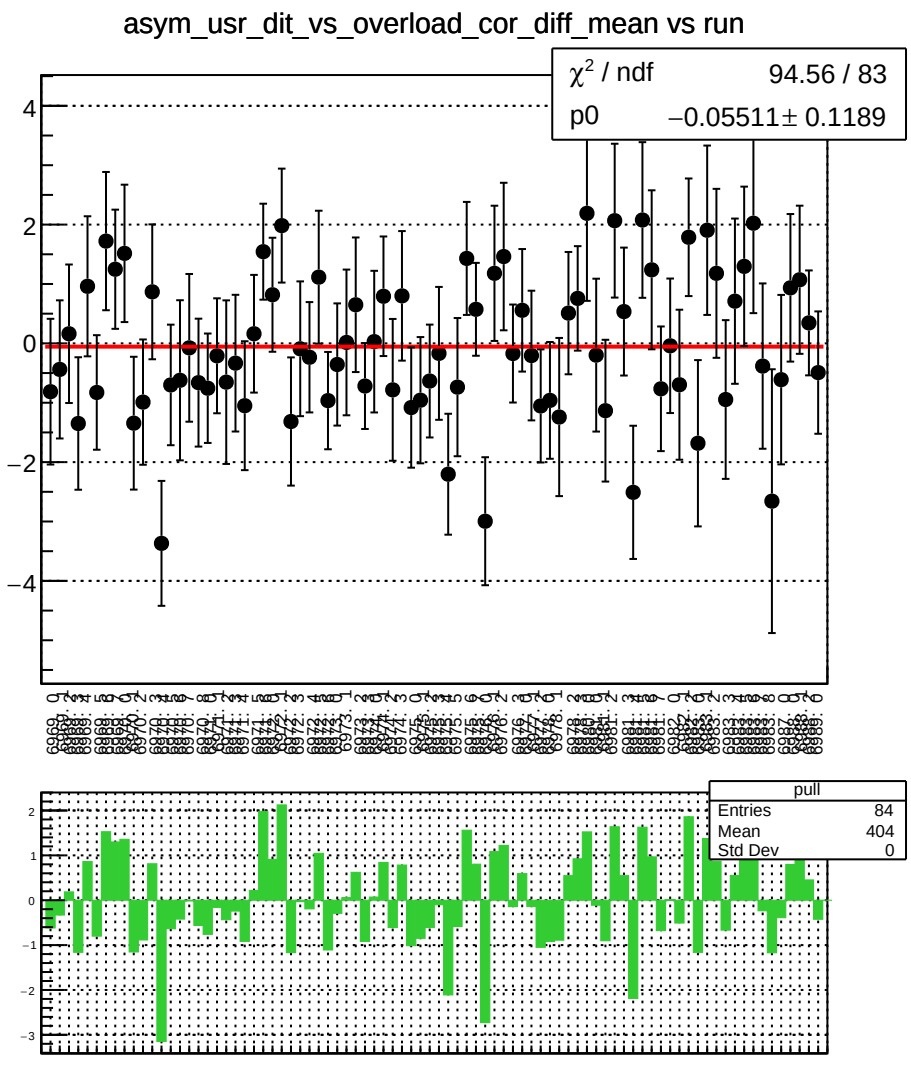

pull1D
Entries 84
Mean 0.01787
Std Dev 1.055

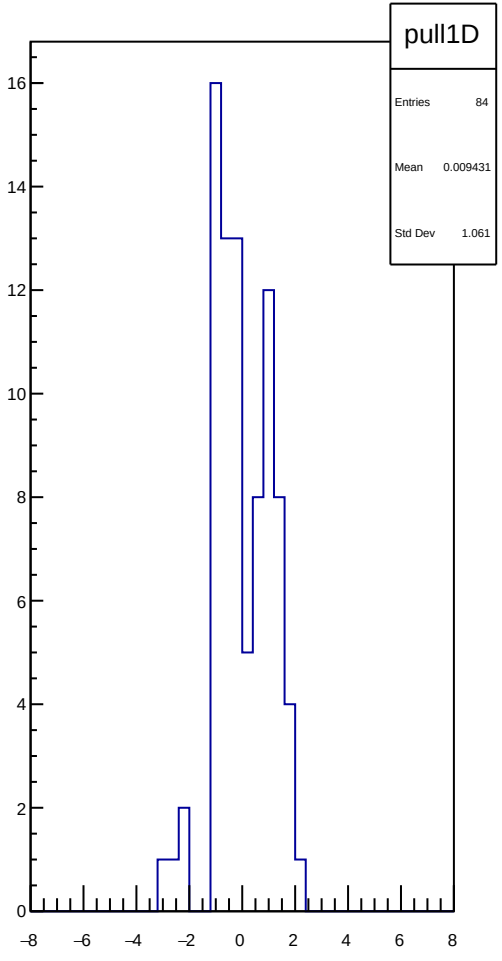

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 8.103e+04 / 83
p0 75.61 ± 0.05991
140
120
100
80
60
40

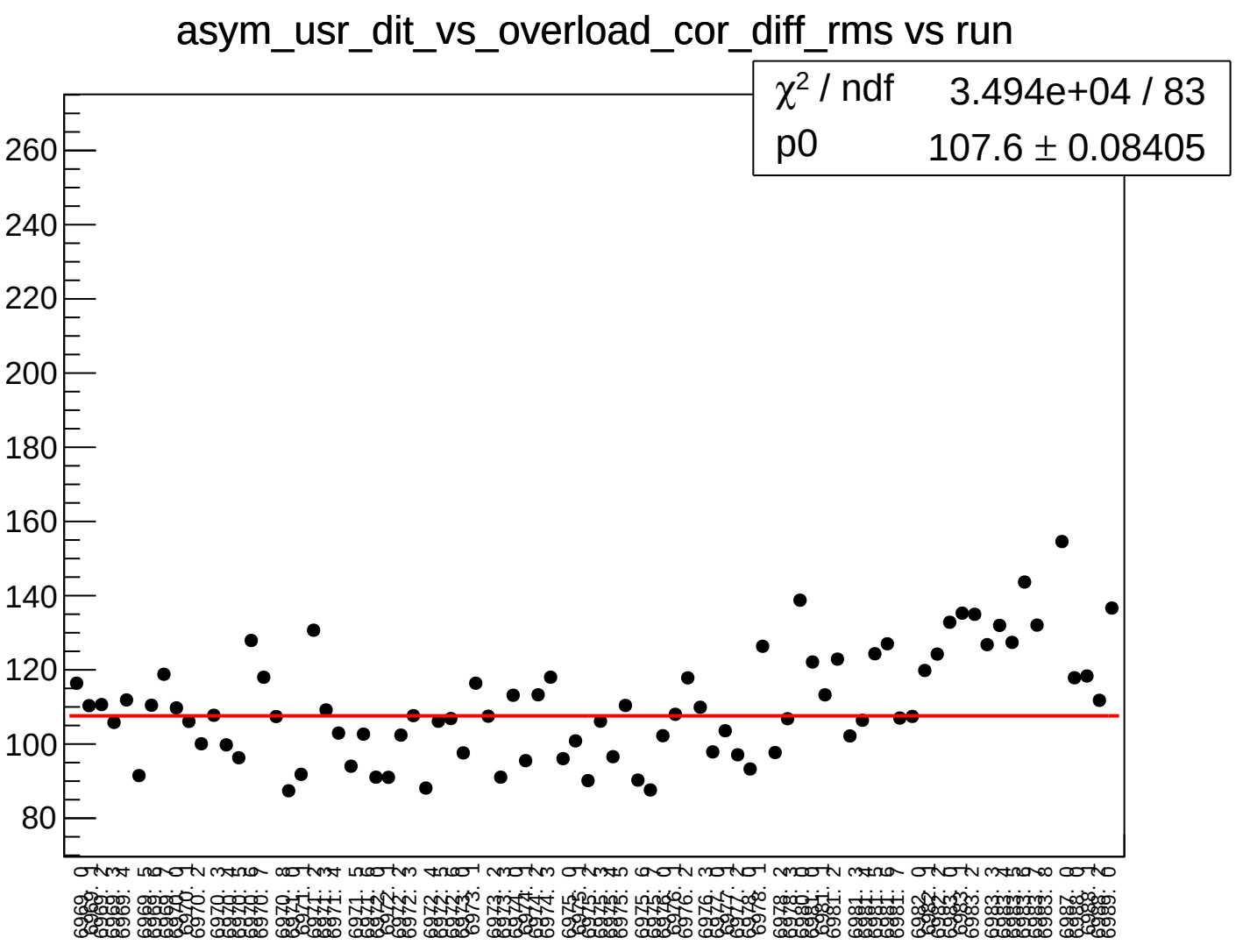

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.48 / 83
p0 −0.08624 ± 0.08473
pull
Entries 84
Mean 262.4
Std Dev 0

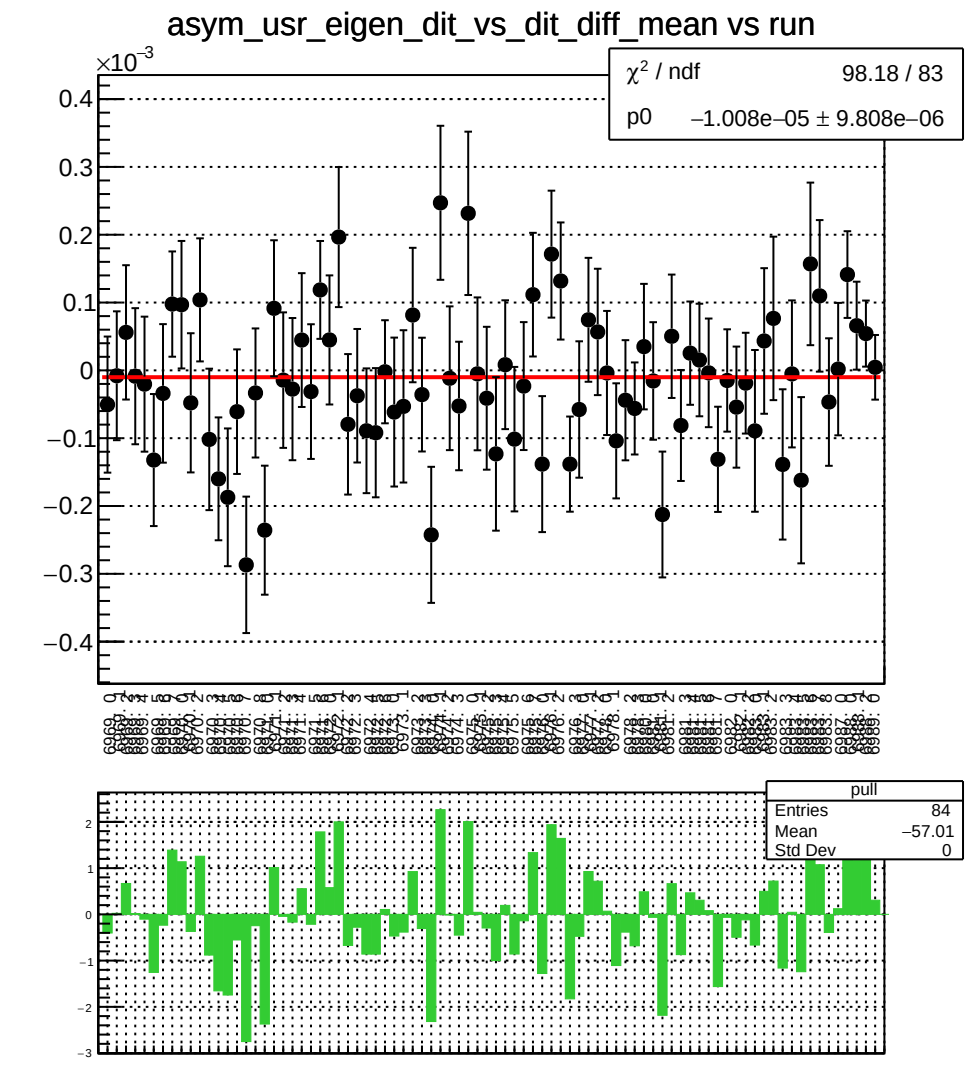

pull1D
Entries 84
Mean 0.01787
Std Dev 1.055

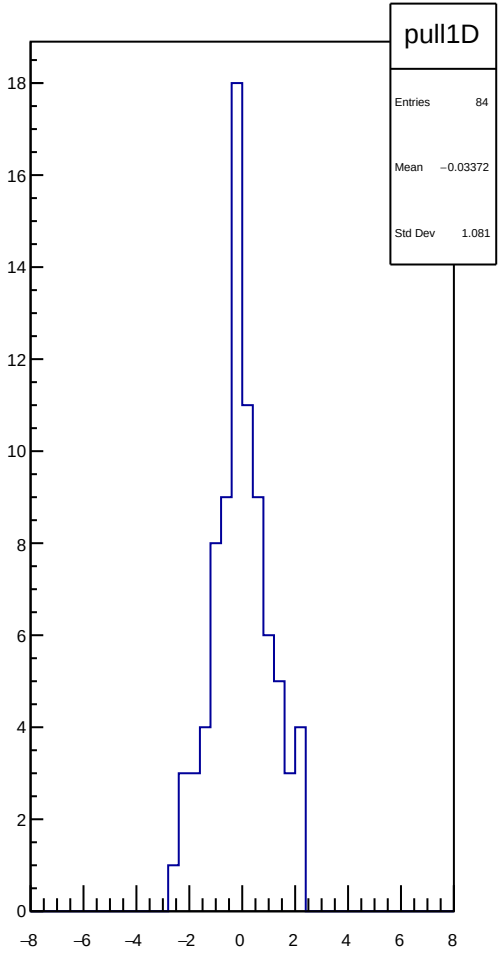

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.103e+04 / 83
p0 75.61 ± 0.05991
140
120
100
80
60
40

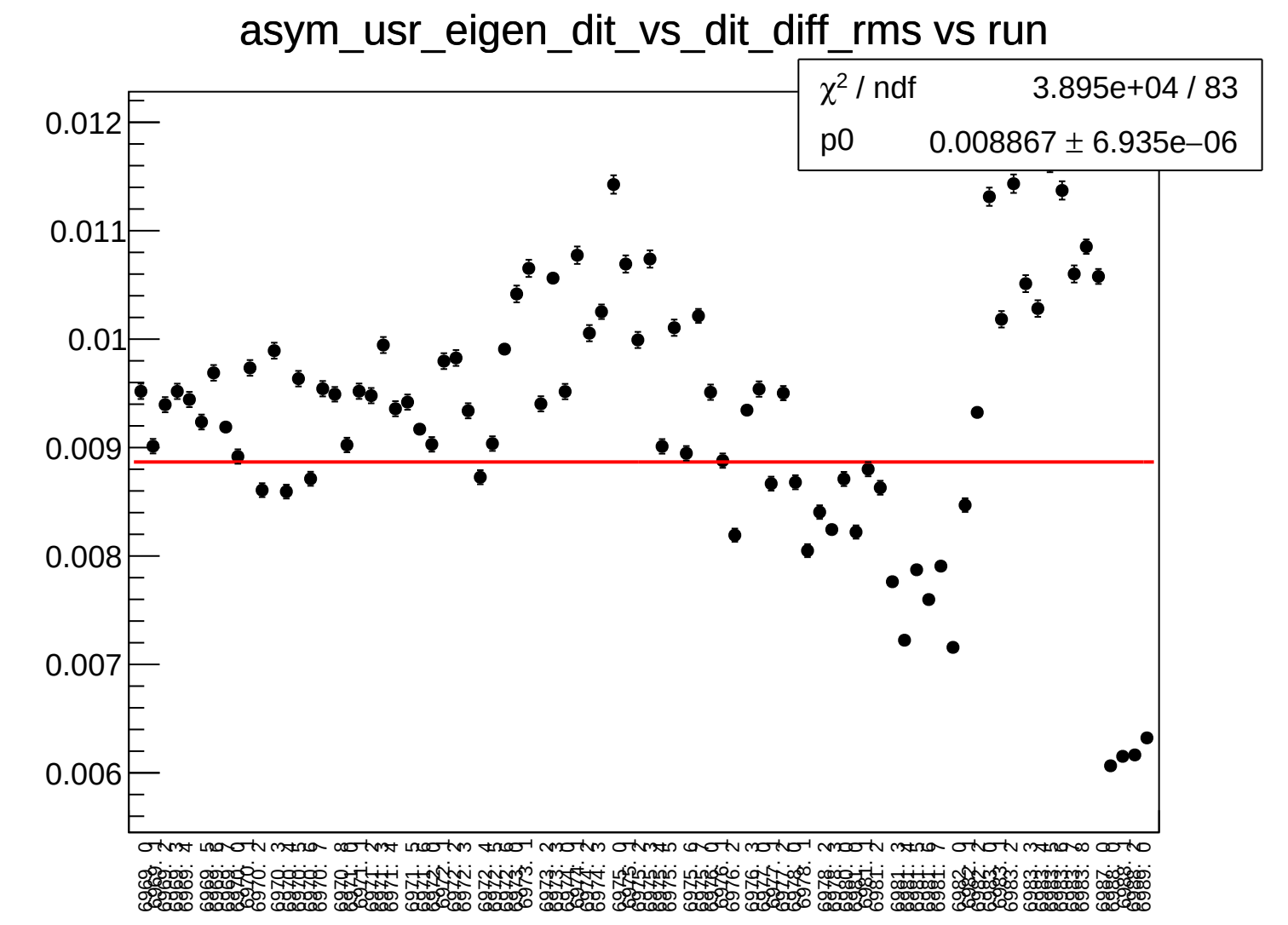

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 94.56 / 83
p0 −0.05511± 0.1189
pull
Entries 84
Mean 404
Std Dev 0

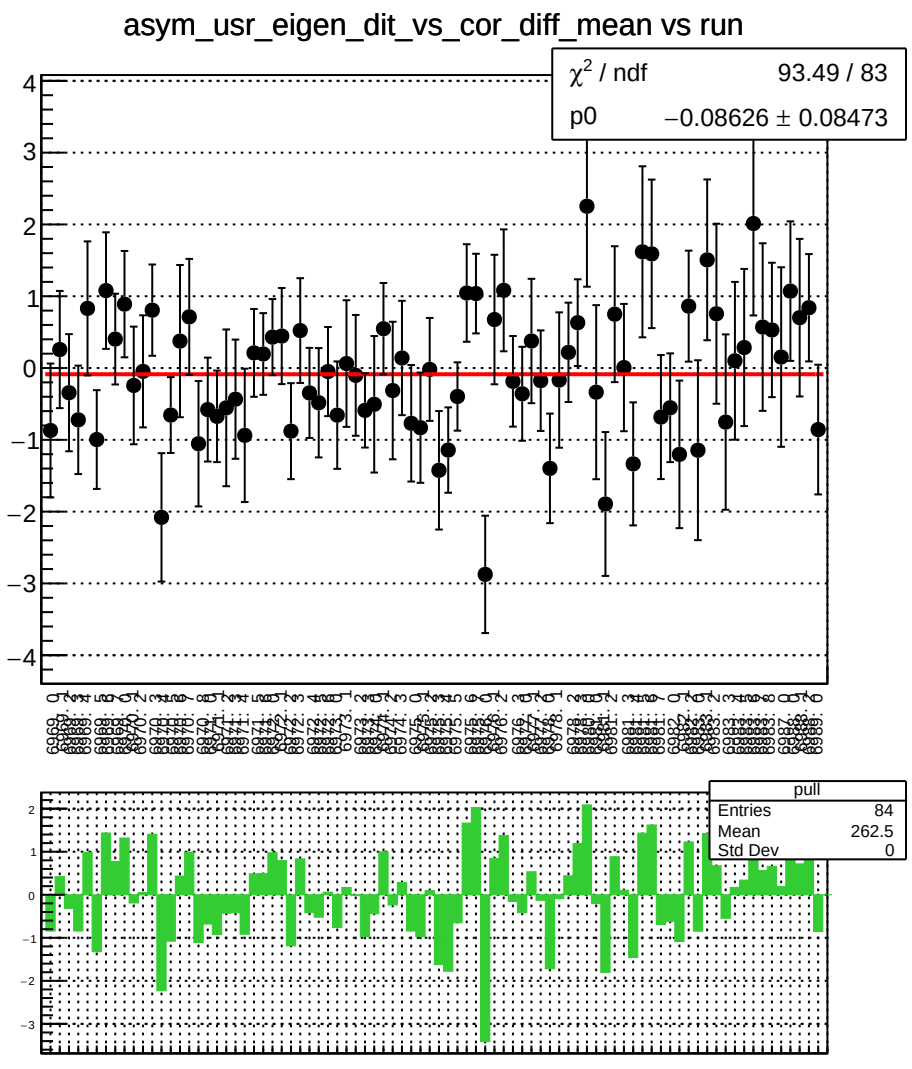

pull1D
Entries 84
Mean 0.009431
Std Dev 1.061

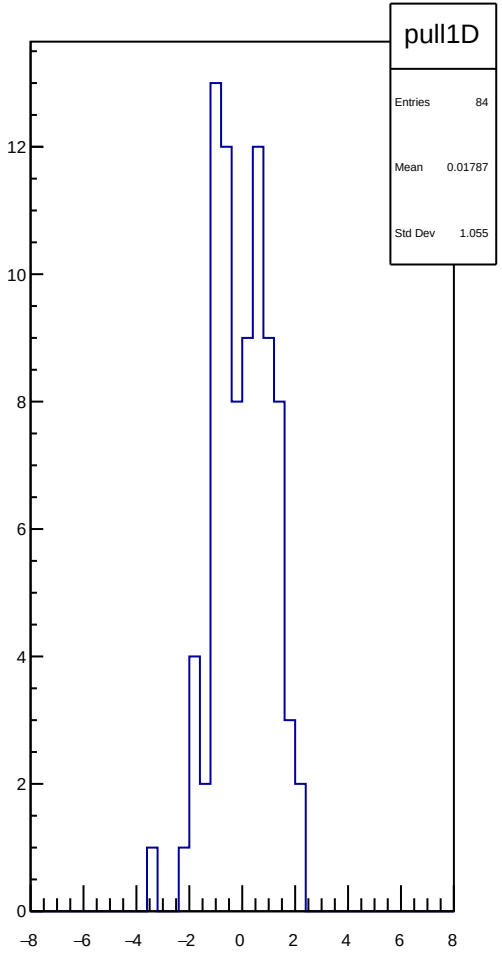

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.494e+04 / 83
p0 107.6 ± 0.08405
260
240
220
200
180
160
140
120
100
80

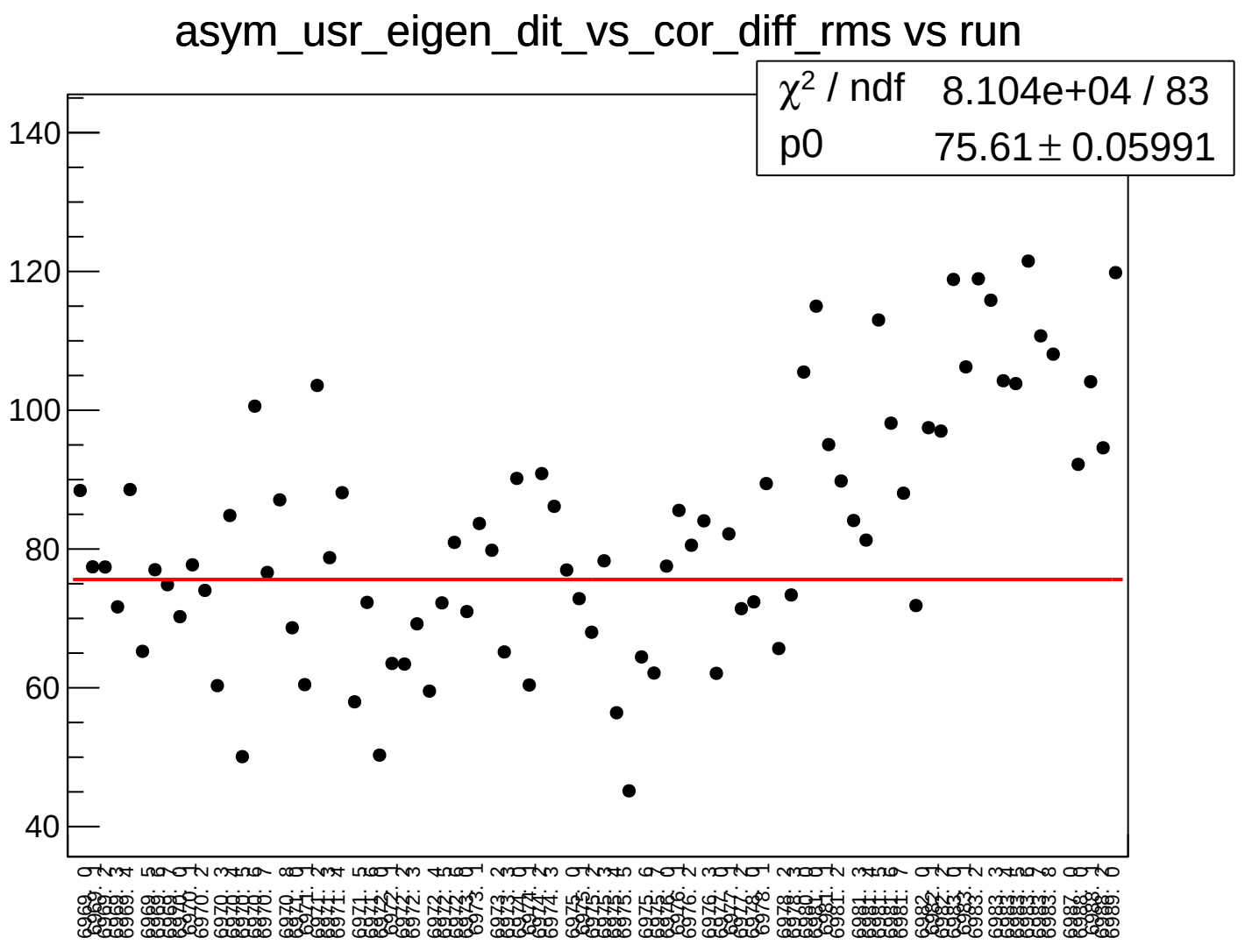

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.18 / 83
p0 −1.008e−05 ± 9.808e−06
pull
Entries 84
Mean −57.01
Std Dev 0

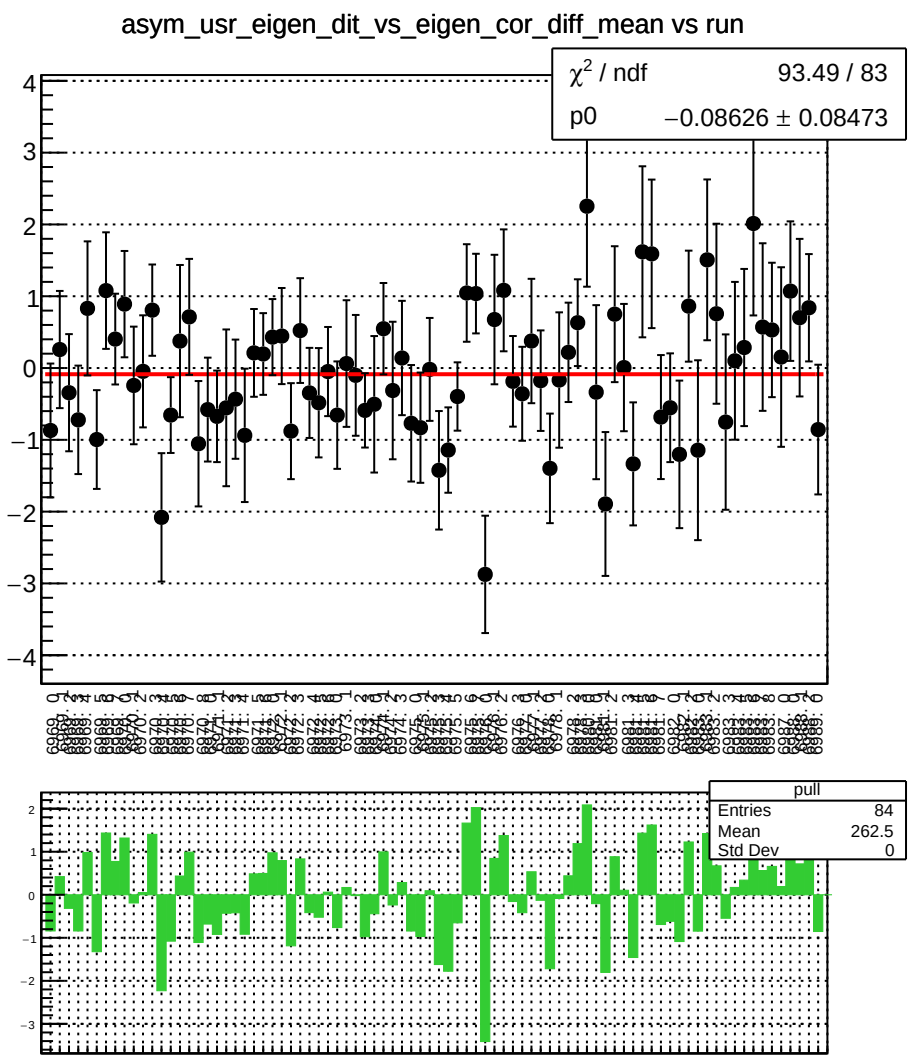

pull1D
Entries 84
Mean −0.03372
Std Dev 1.081

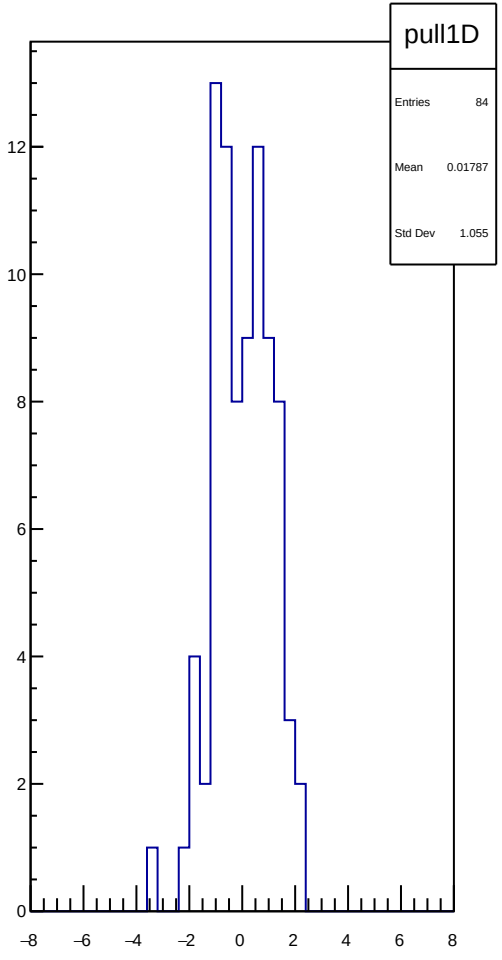

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.895e+04 / 83
p0 0.008867 ± 6.935e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

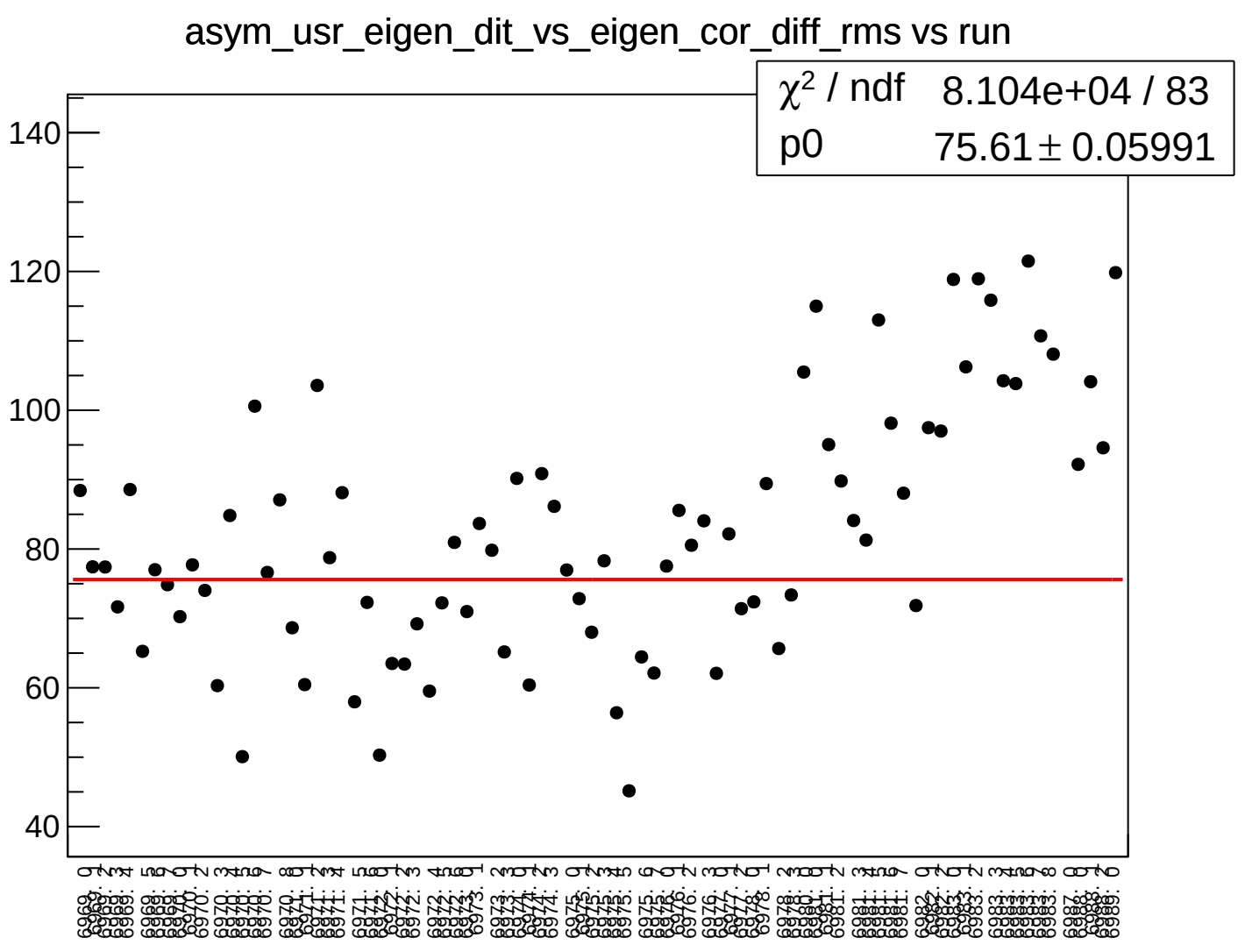

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.49 / 83
p0 −0.08626 ± 0.08473
pull
Entries 84
Mean 262.5
Std Dev 0

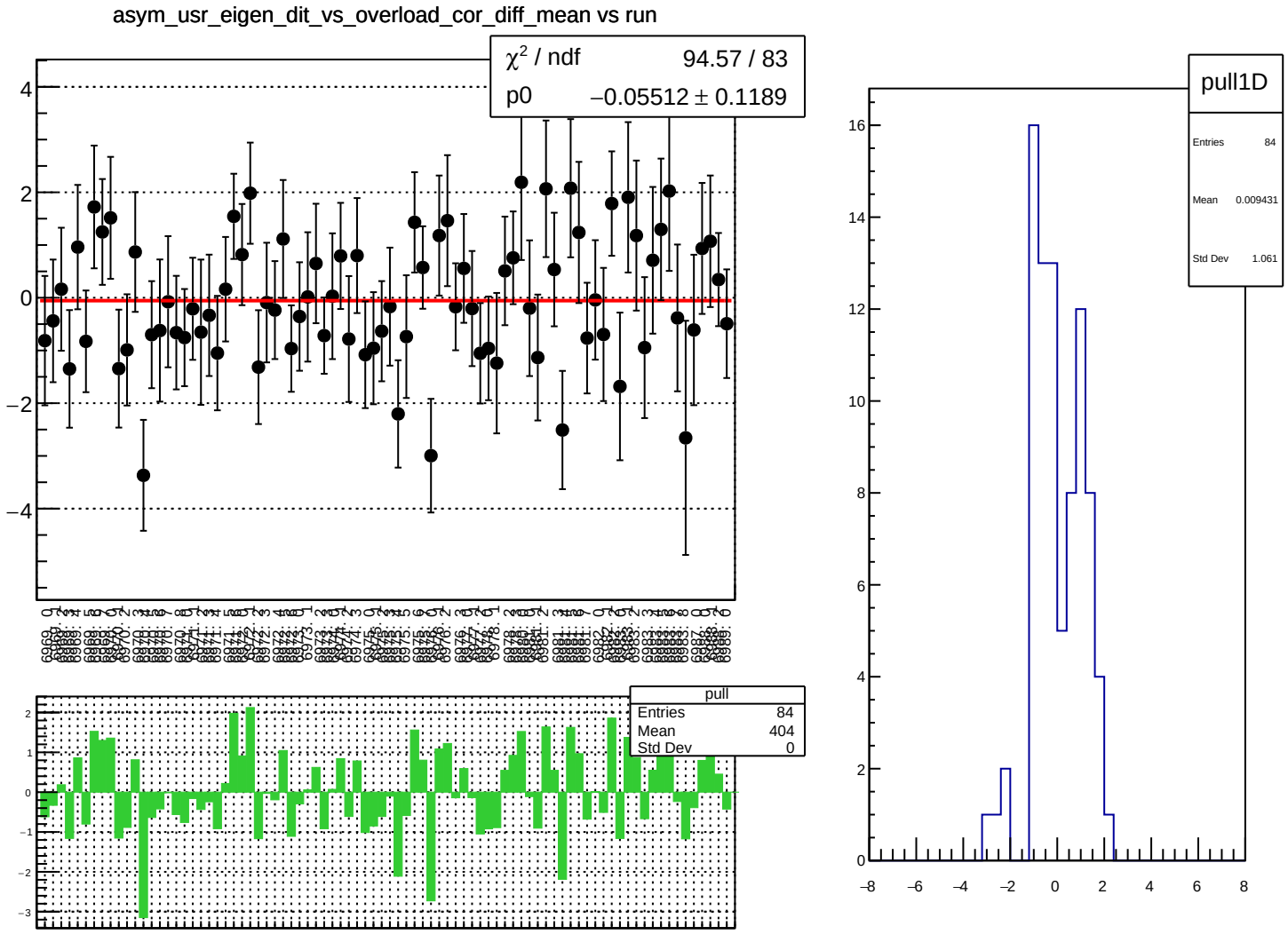

pull1D
Entries 84
Mean 0.01787
Std Dev 1.055

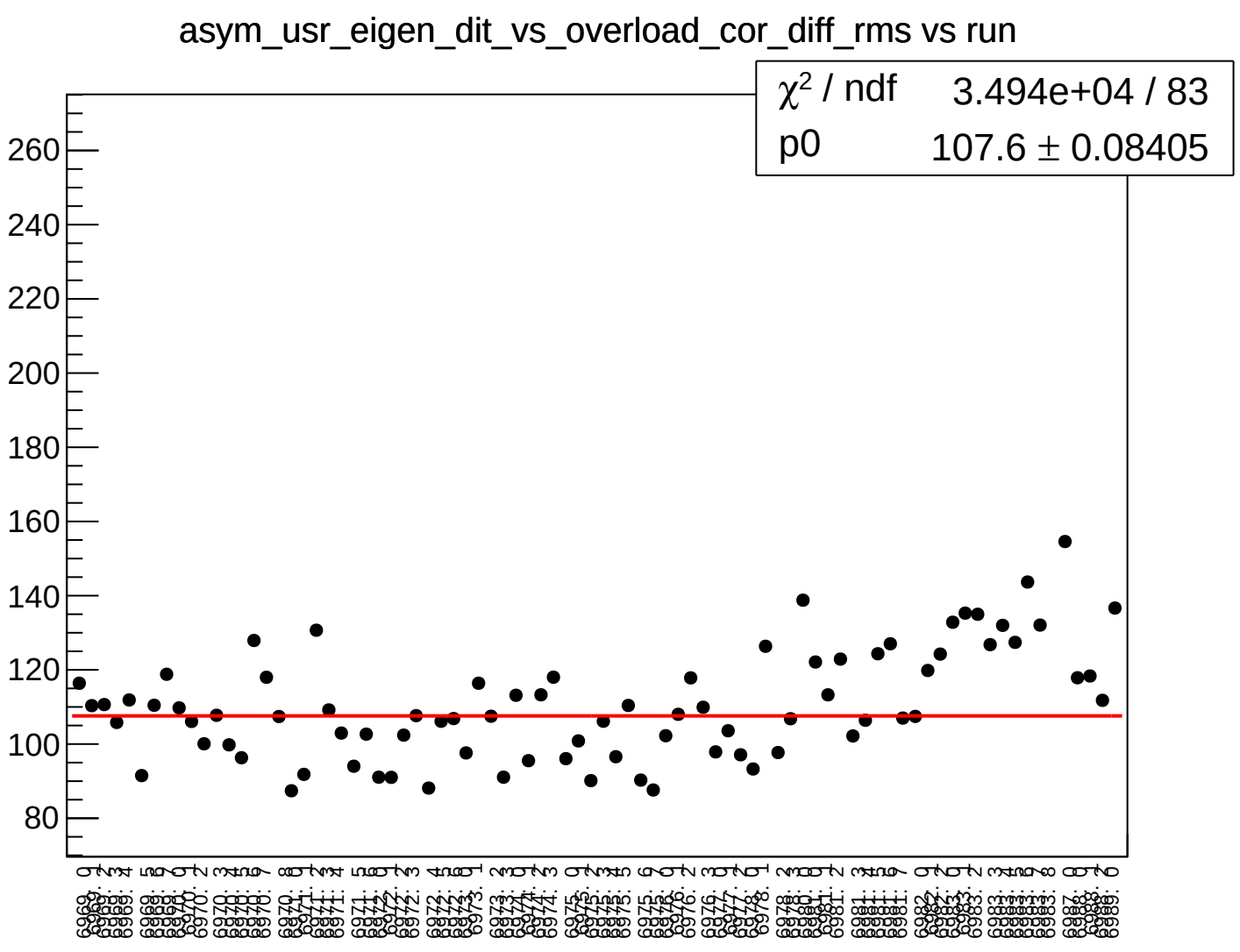

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.104e+04 / 83
p0 75.61 ± 0.05991
140
120
100
80
60
40

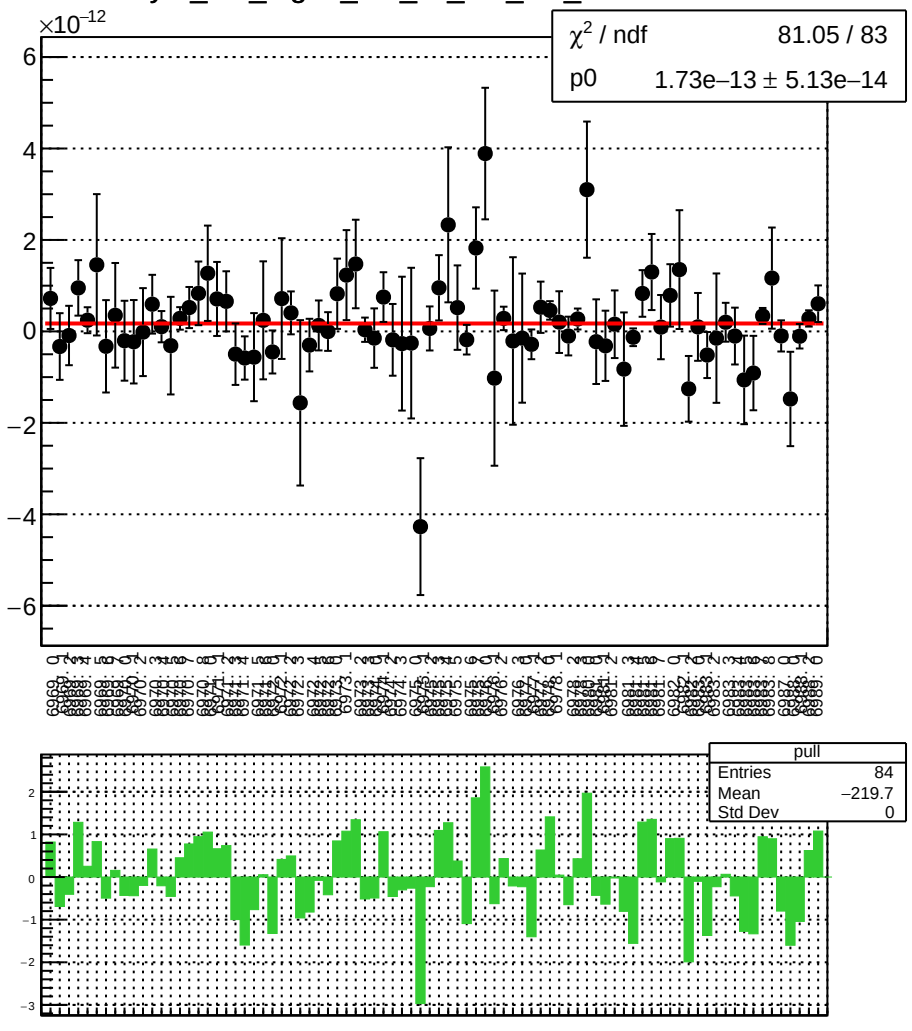

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.49 / 83
p0 −0.08626 ± 0.08473
pull
Entries 84
Mean 262.5
Std Dev 0

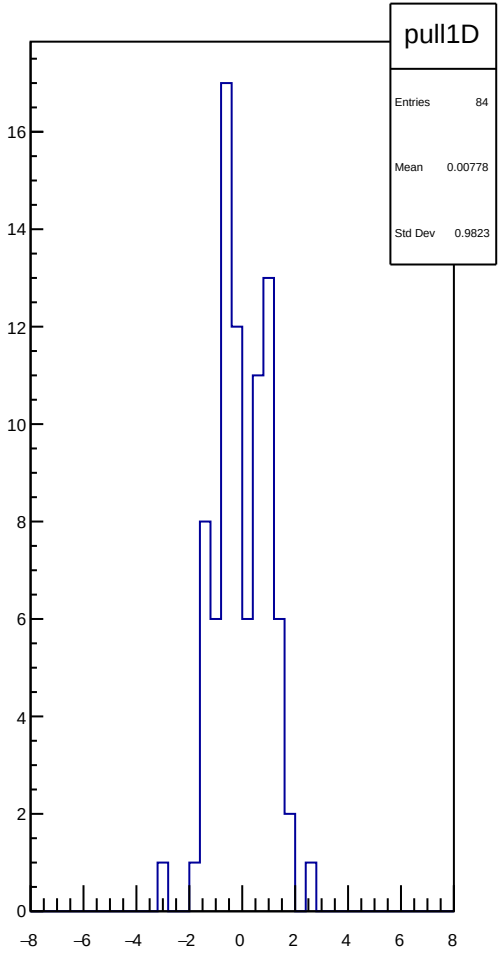

pull1D
Entries 84
Mean 0.01787
Std Dev 1.055

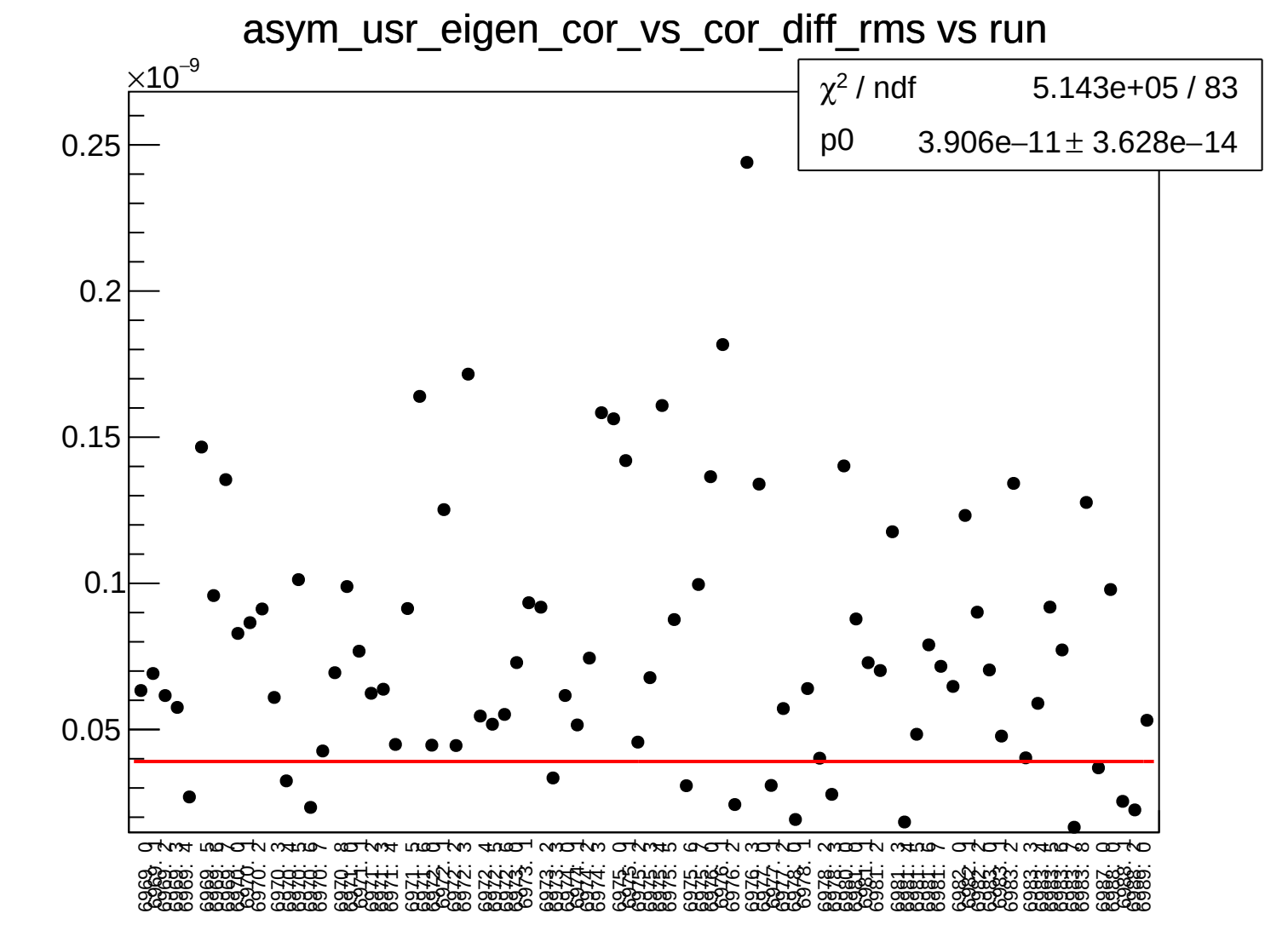

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.104e+04 / 83
p0 75.61 ± 0.05991
140
120
100
80
60
40

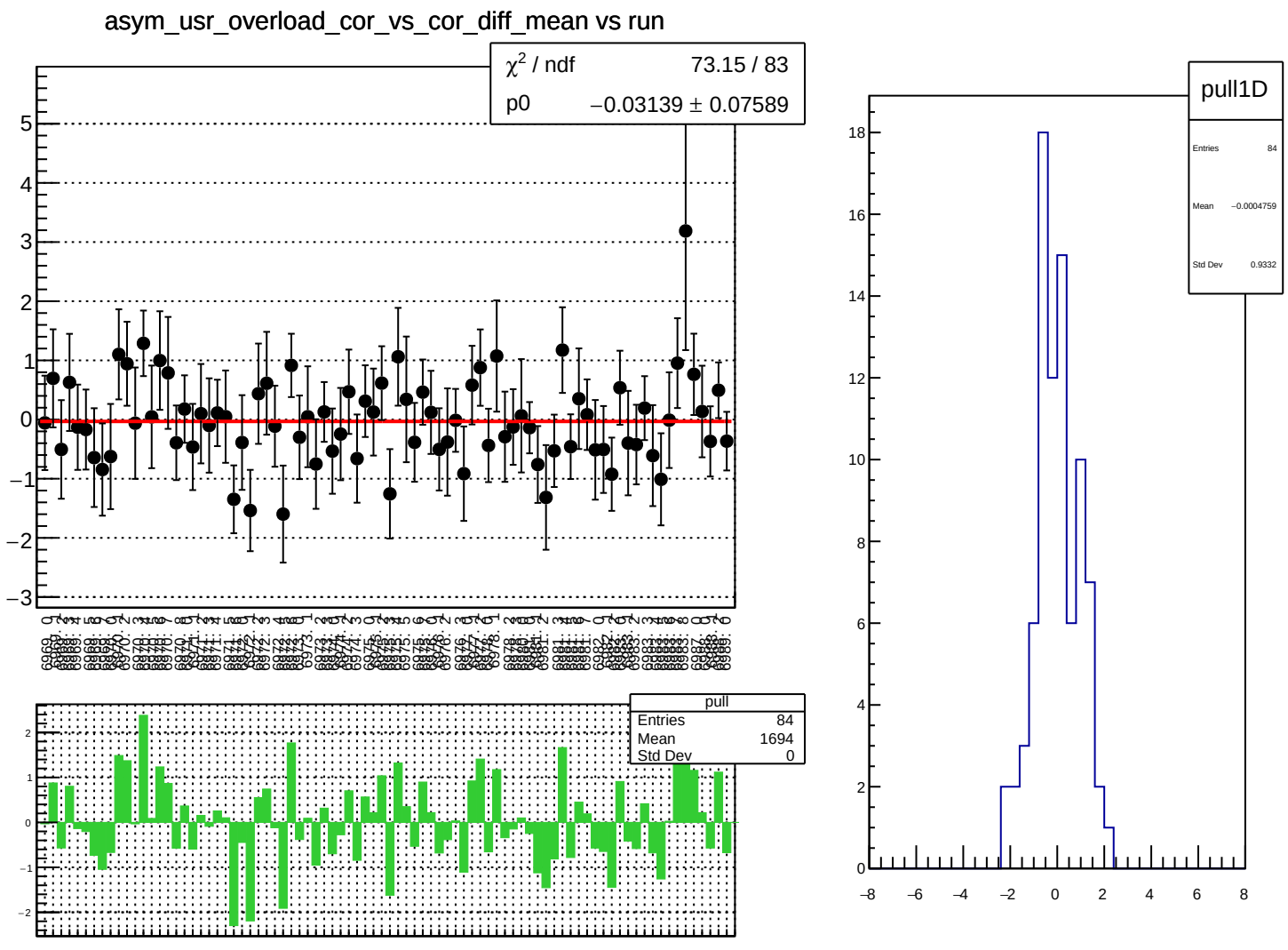

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 94.57 / 83
p0 −0.05512 ± 0.1189
pull
Entries 84
Mean 404
Std Dev 0
pull1D
Entries 84
Mean 0.009431
Std Dev 1.061

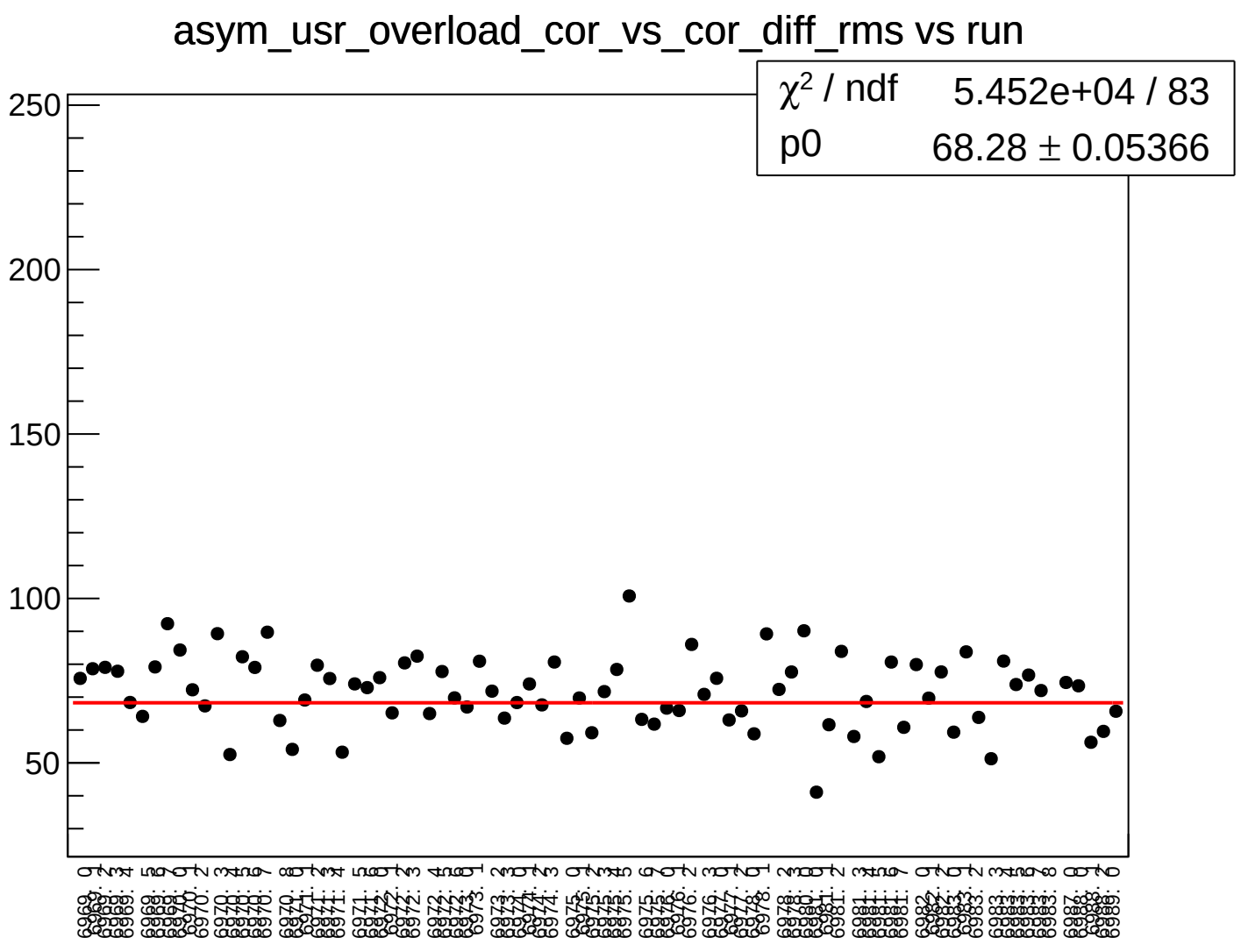

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.494e+04 / 83
p0 107.6 ± 0.08405
260
240
220
200
180
160
140
120
100
80

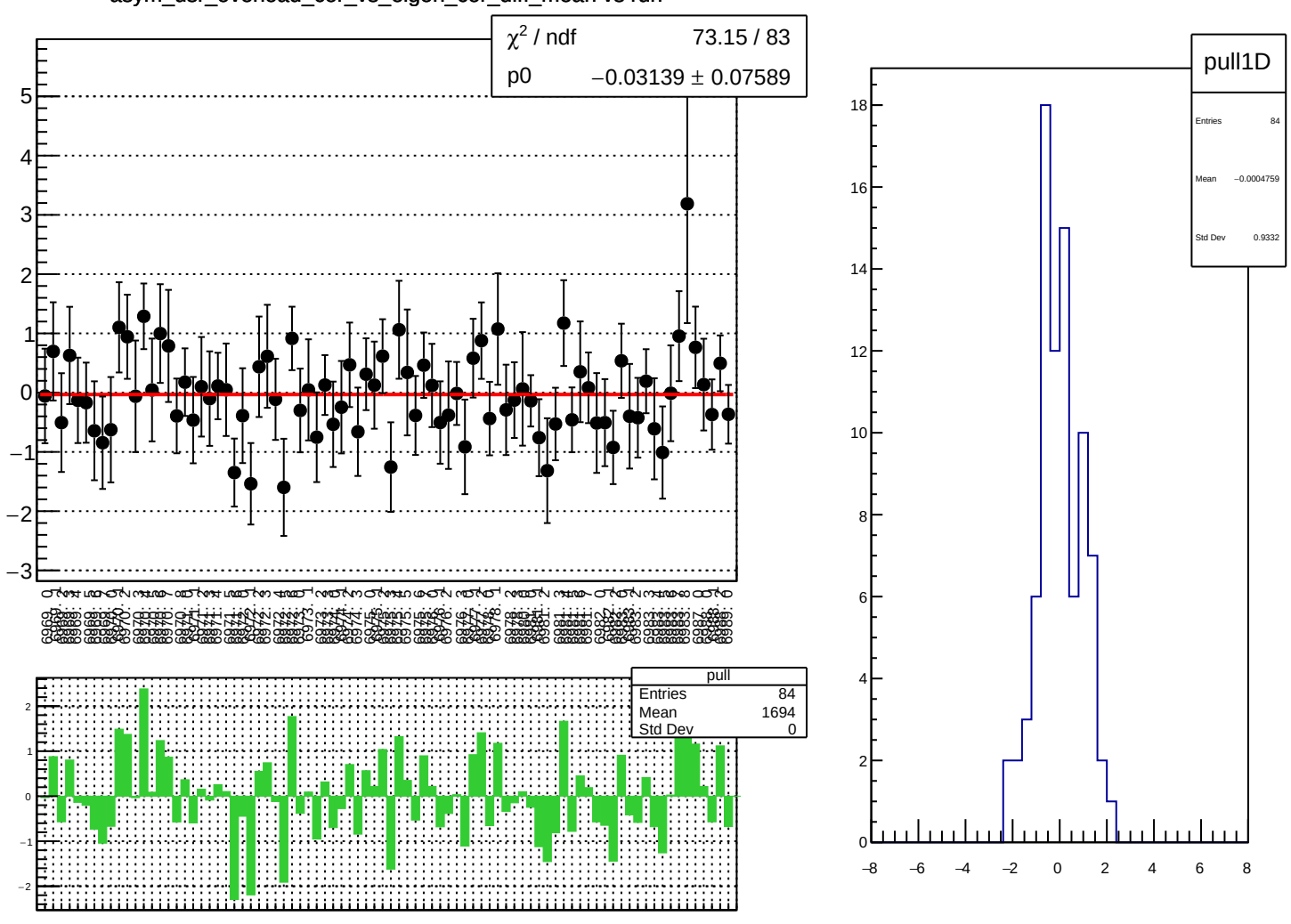

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.05 / 83
p0 1.73e−13 ± 5.13e−14
pull
Entries 84
Mean −219.7
Std Dev 0

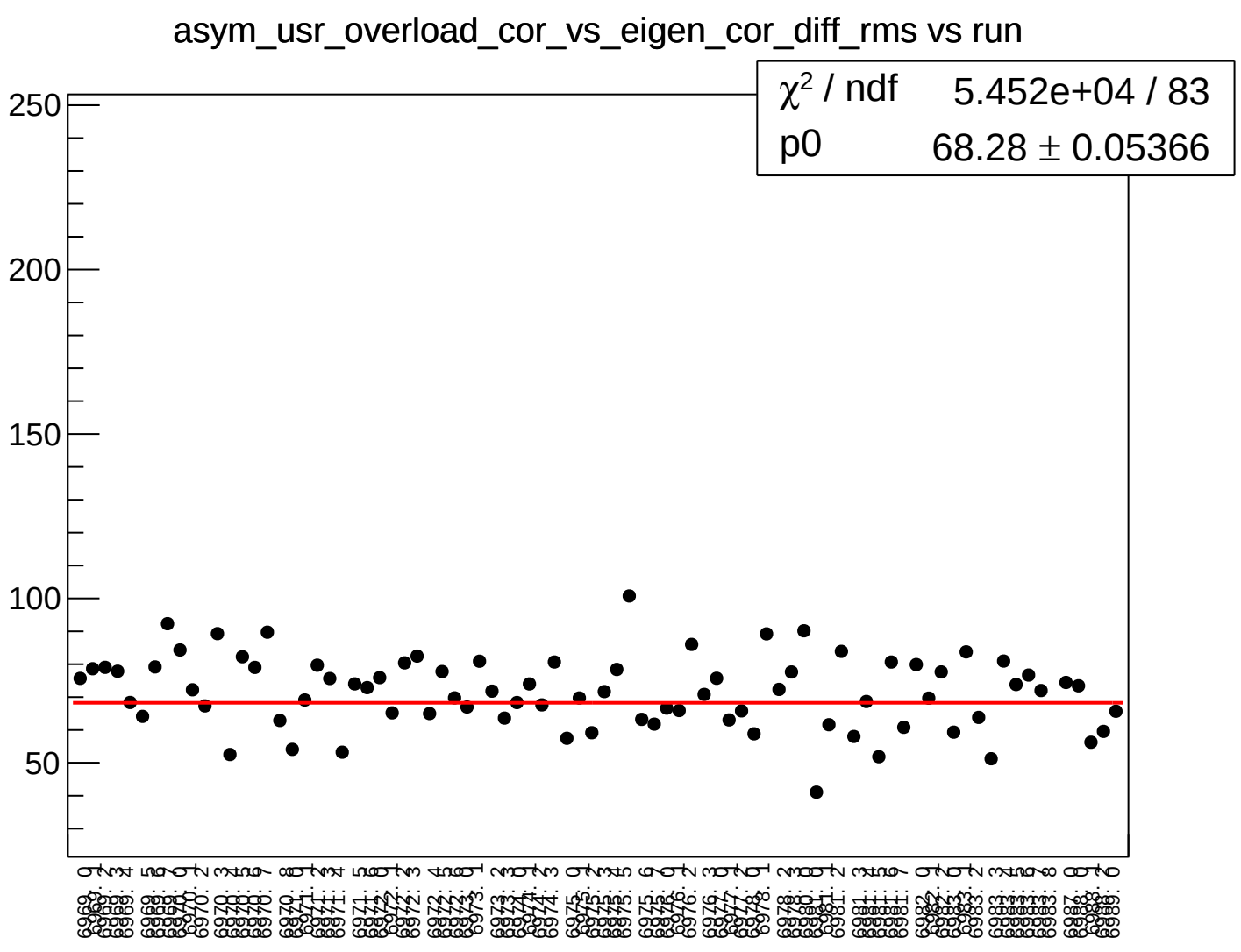

pull1D
Entries 84
Mean 0.00778
Std Dev 0.9823

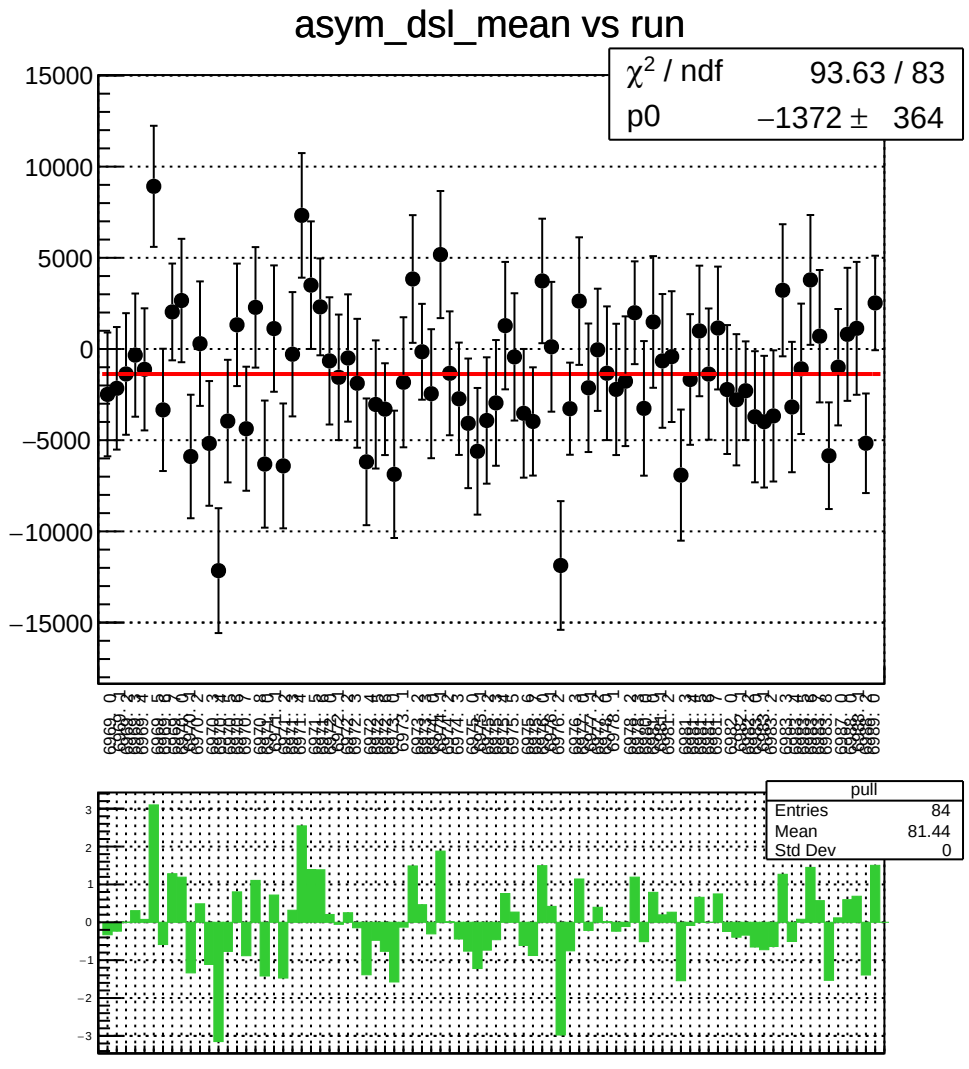

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.143e+05 / 83
p0 3.906e−11 ± 3.628e−14
0.25
0.2
0.15
0.1
0.05

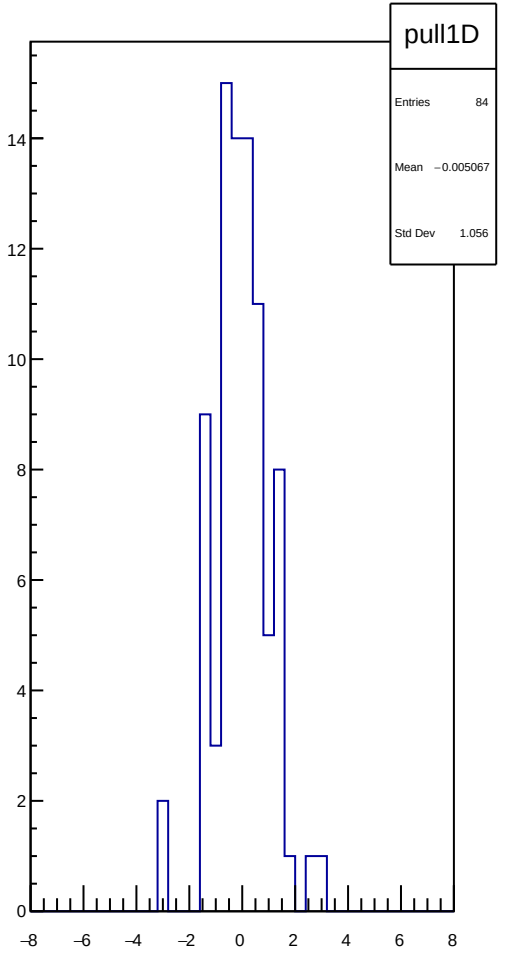

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 73.15 / 83
p0 −0.03139 ± 0.07589
pull
Entries 84
Mean 1694
Std Dev 0
pull1D
Entries 84
Mean −0.0004759
Std Dev 0.9332

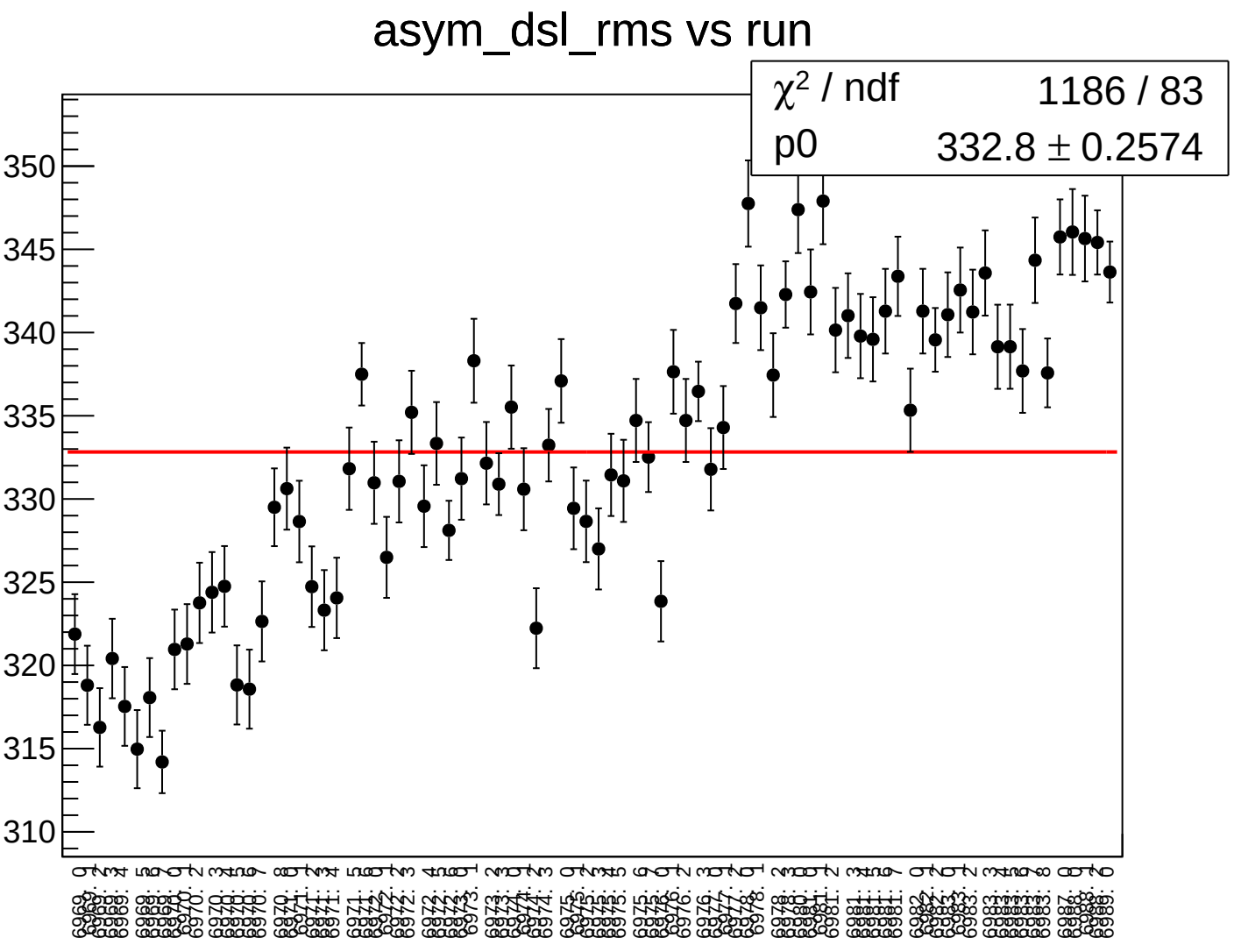

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.452e+04 / 83
p0 68.28 ± 0.05366
250
200
150
100
50

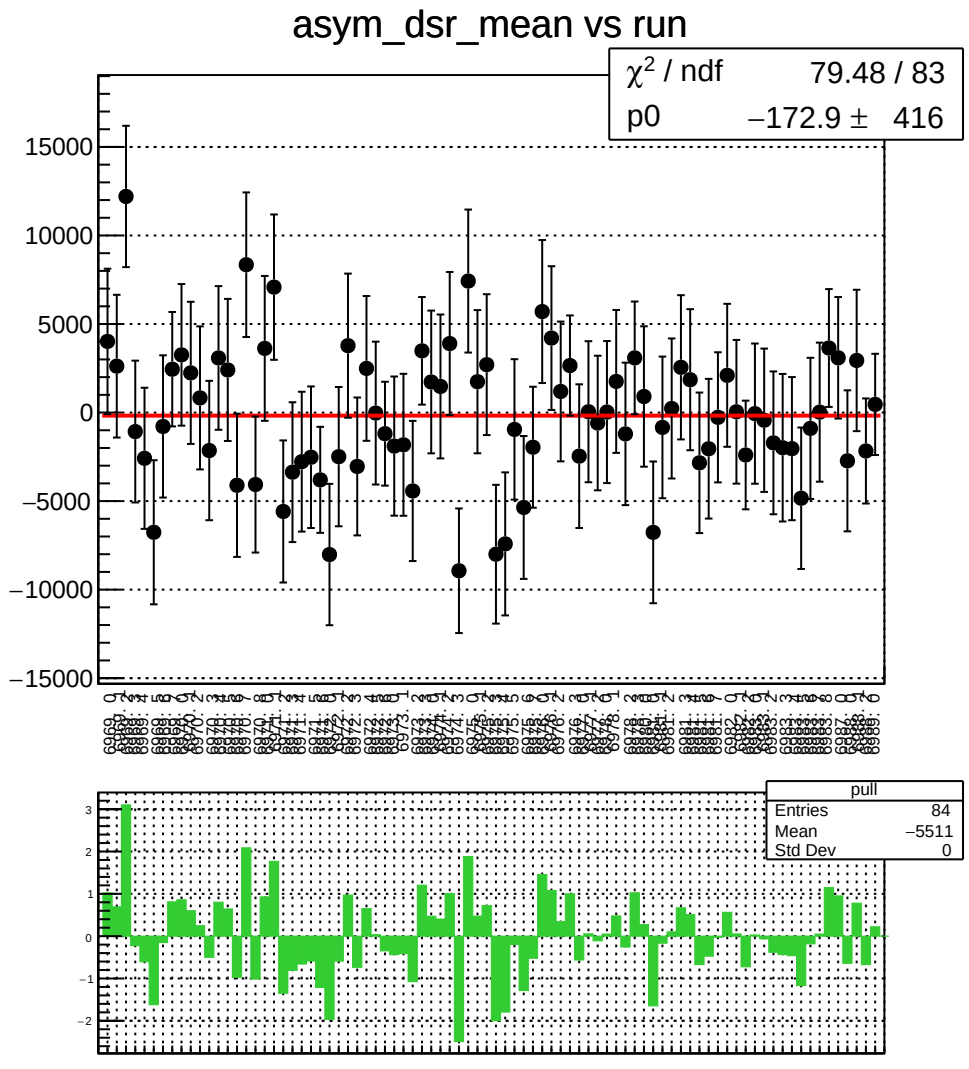

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.15 / 83
p0 −0.03139 ± 0.07589
pull
Entries 84
Mean 1694
Std Dev 0
pull1D
Entries 84
Mean −0.0004759
Std Dev 0.9332

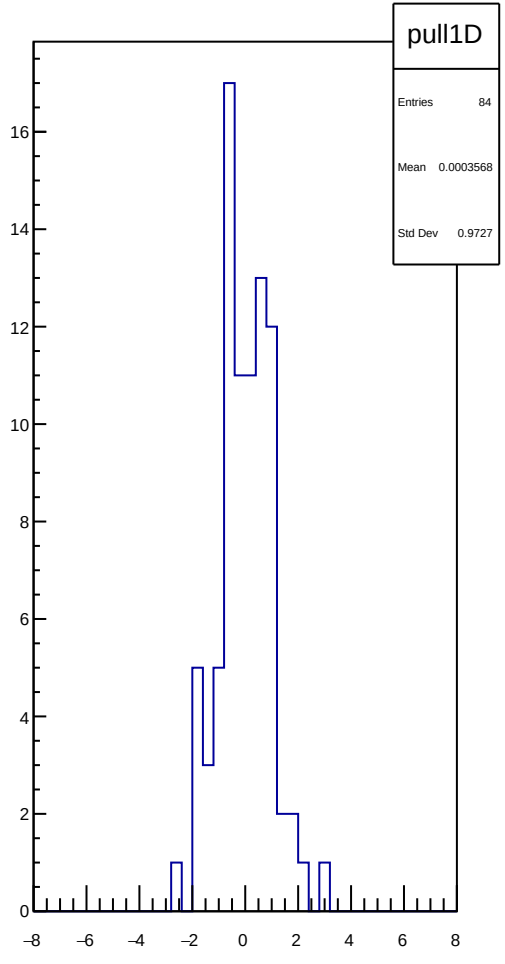

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.452e+04 / 83
p0 68.28 ± 0.05366
250
200
150
100
50

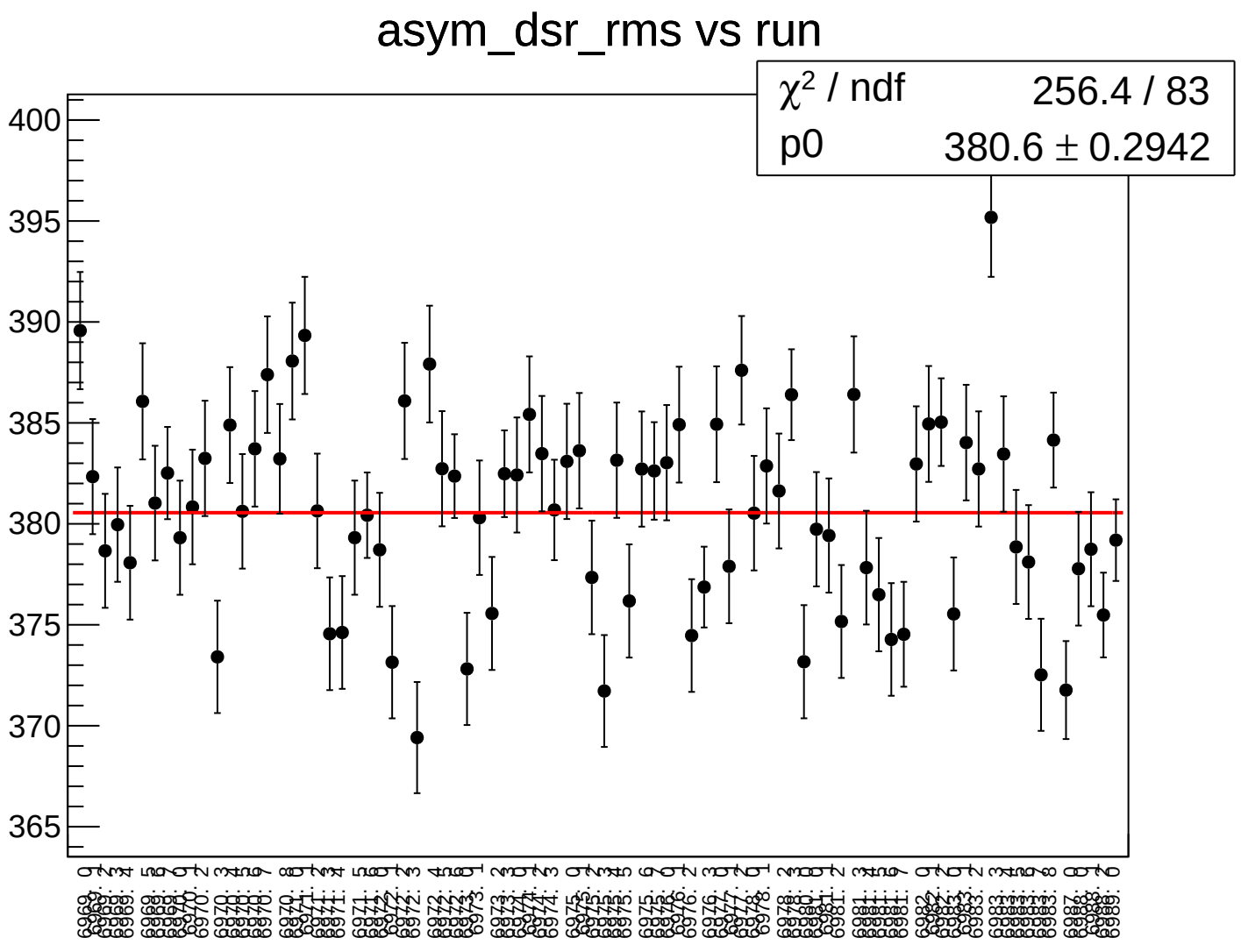

asym_dsl_mean vs run
χ² / ndf 93.63 / 83
p0 −1372 ± 364
pull
Entries 84
Mean 81.44
Std Dev 0

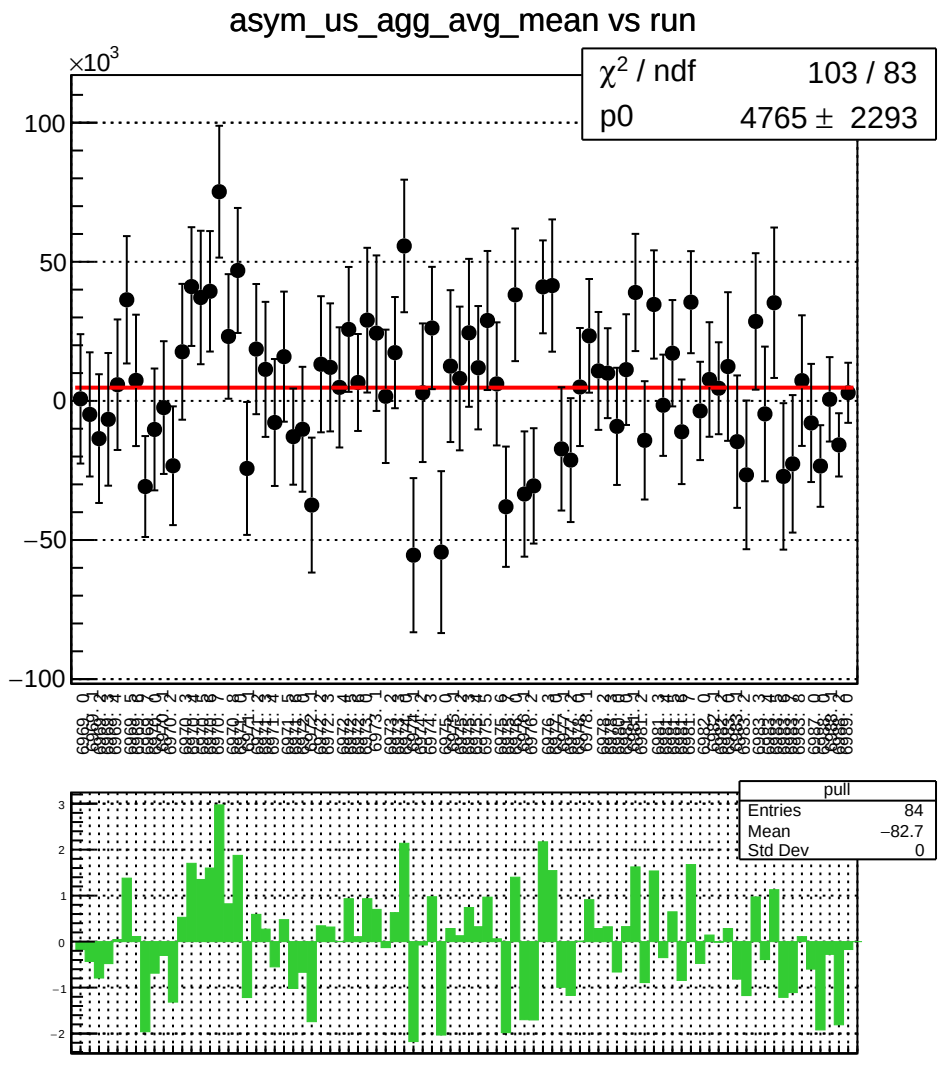

pull1D
Entries 84
Mean −0.005067
Std Dev 1.056

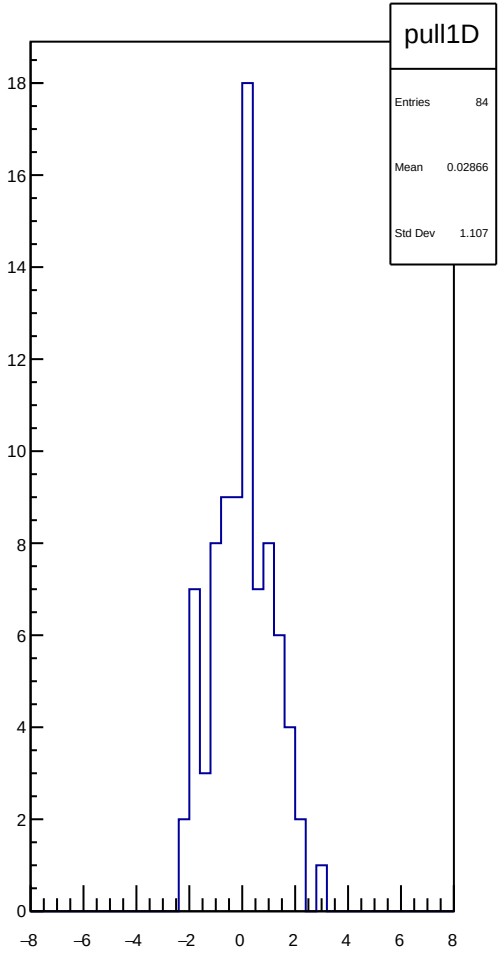

asym_dsl_rms vs run
χ^2 / ndf 1186 / 83
p0 332.8 ± 0.2574
350
345
340
335
330
325
320
315
310

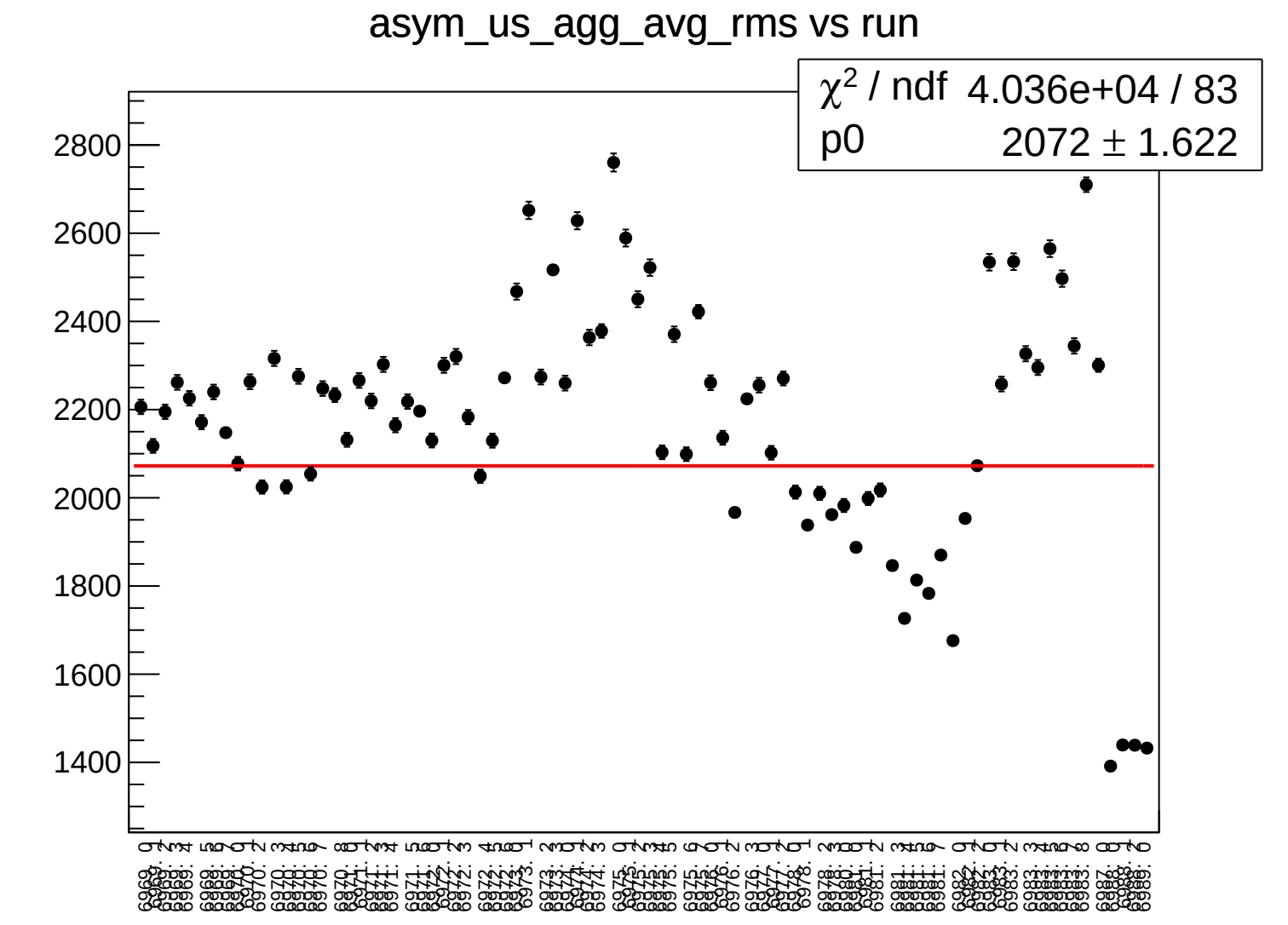

asym_dsr_mean vs run
χ² / ndf 79.48 / 83
p0 −172.9 ± 416
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −5511
Std Dev 0
3
2
1
0
−1
−2

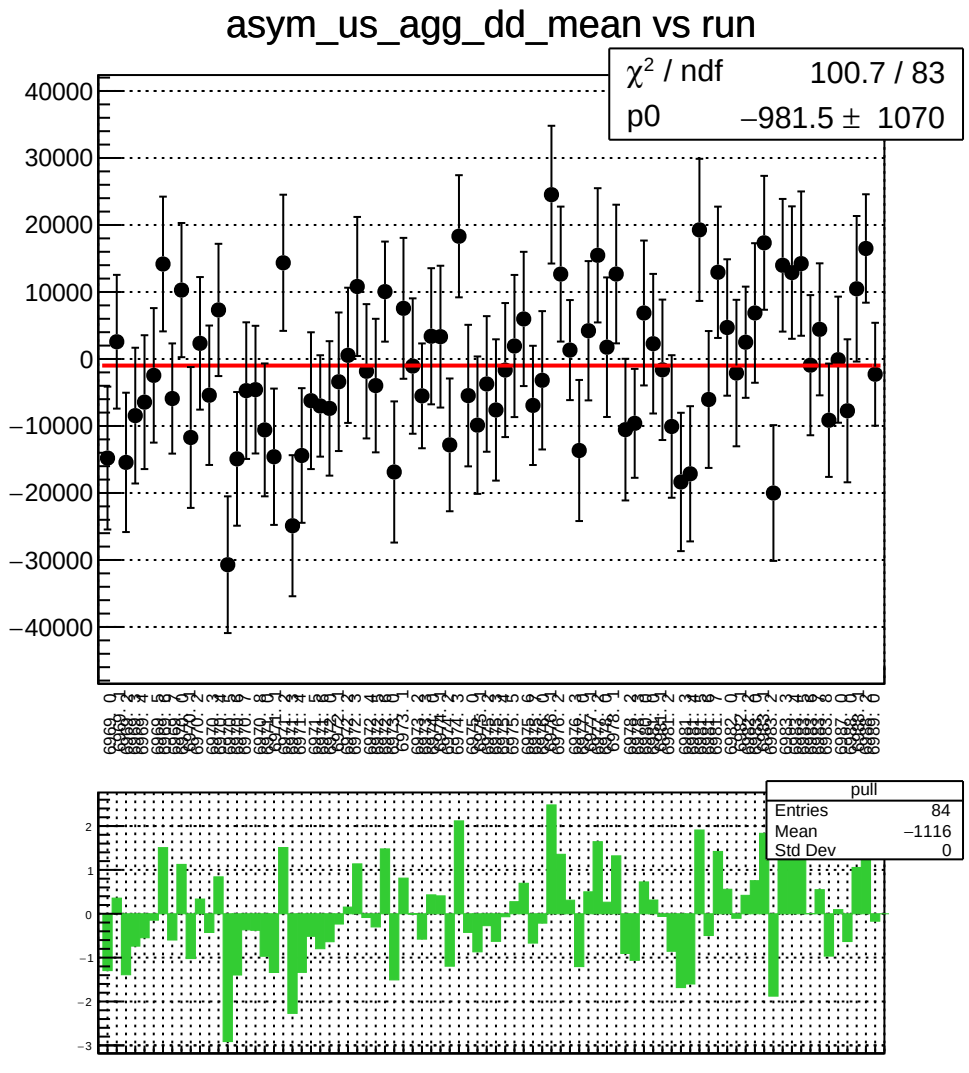

pull1D
Entries 84
Mean 0.0003568
Std Dev 0.9727
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

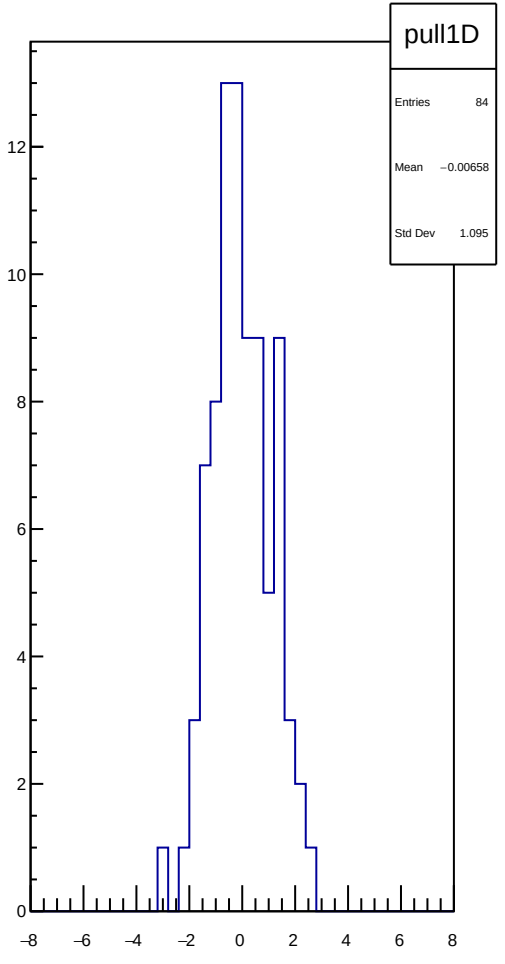

asym_dsr_rms vs run
χ² / ndf 256.4 / 83
p0 380.6 ± 0.2942
400
395
390
385
380
375
370
365

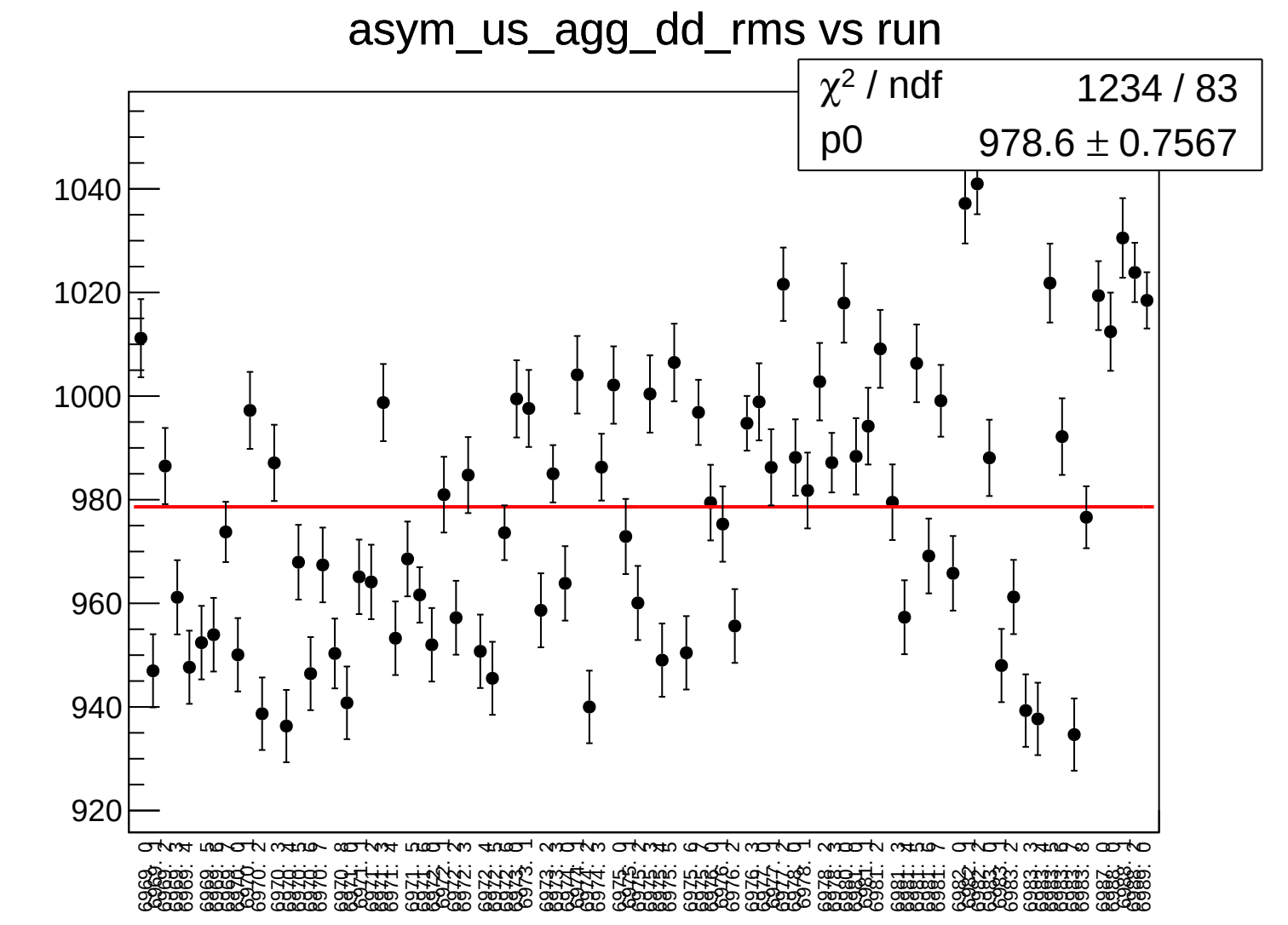

asym_us_agg_avg_mean vs run
×10^3
χ² / ndf 103 / 83
p0 4765 ± 2293
pull
Entries 84
Mean −82.7
Std Dev 0

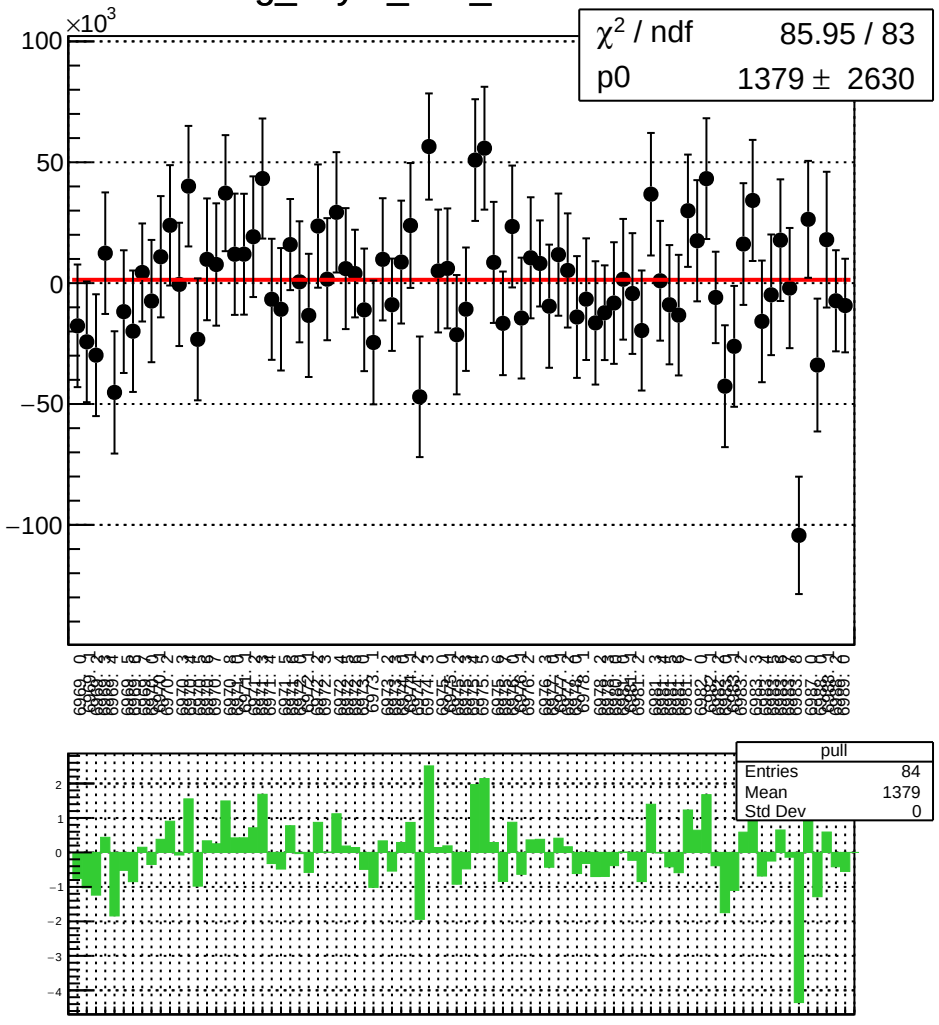

pull1D
Entries 84
Mean 0.02866
Std Dev 1.107

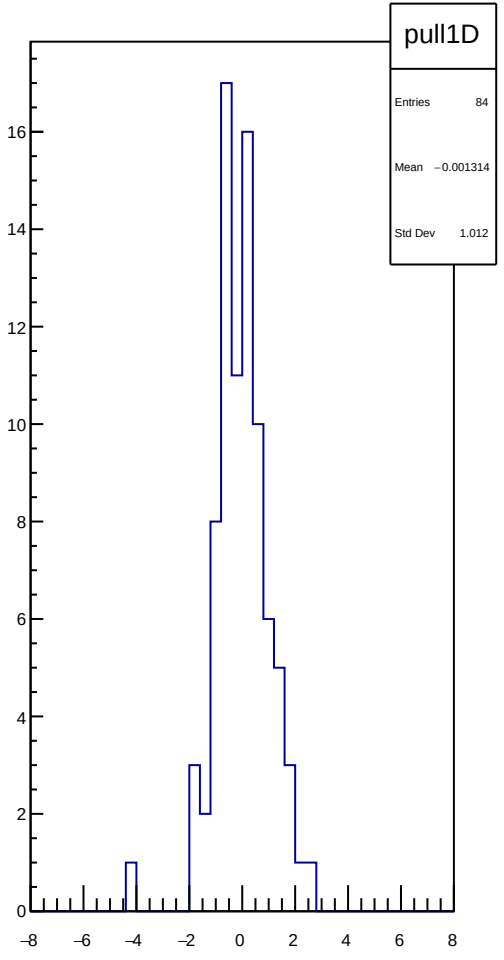

asym_us_agg_avg_rms vs run
χ² / ndf 4.036e+04 / 83
p0 2072 ± 1.622
2800
2600
2400
2200
2000
1800
1600
1400

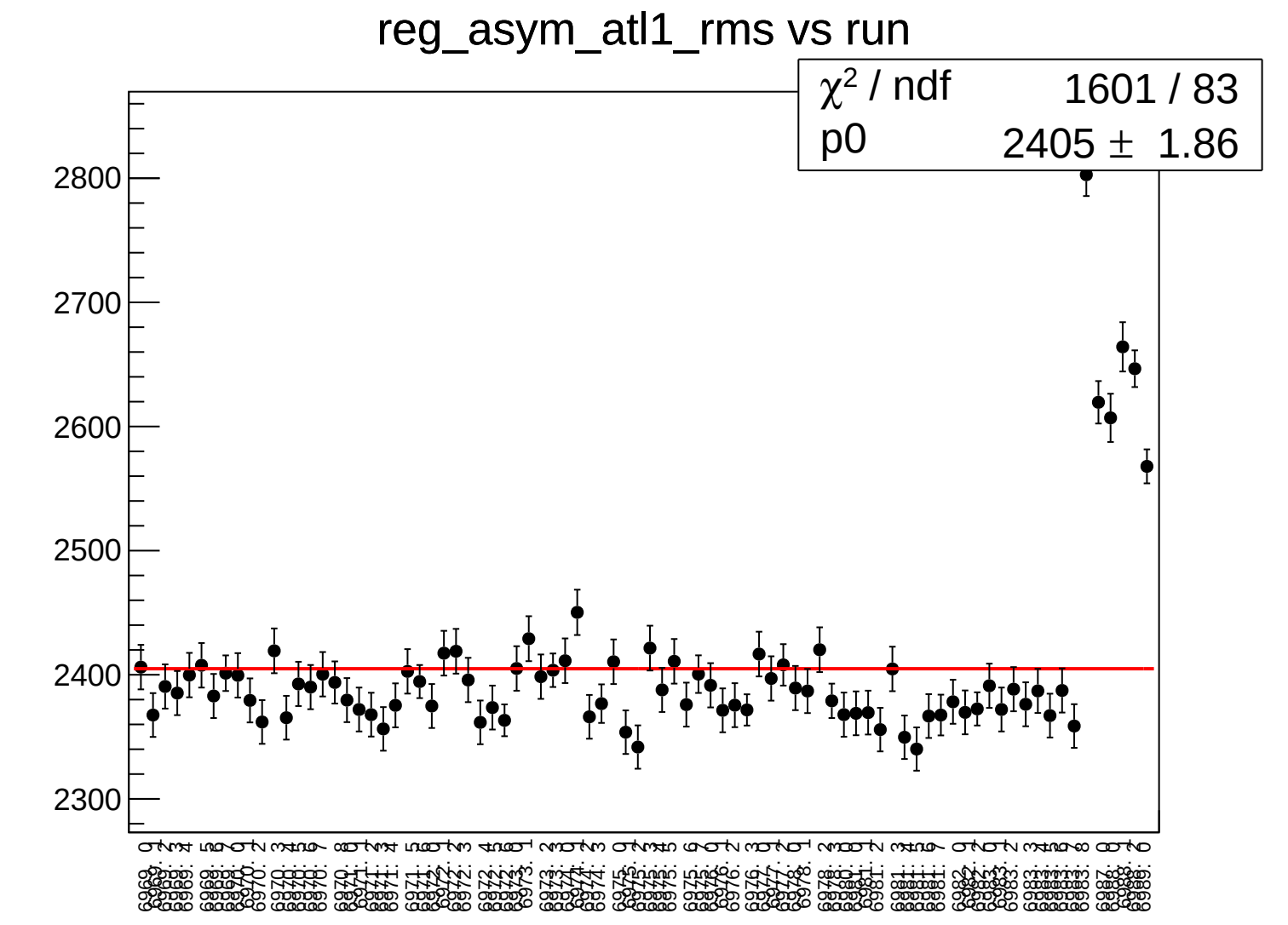

asym_us_agg_dd_mean vs run
χ² / ndf 100.7 / 83
p0 −981.5 ± 1070
pull
Entries 84
Mean −1116
Std Dev 0

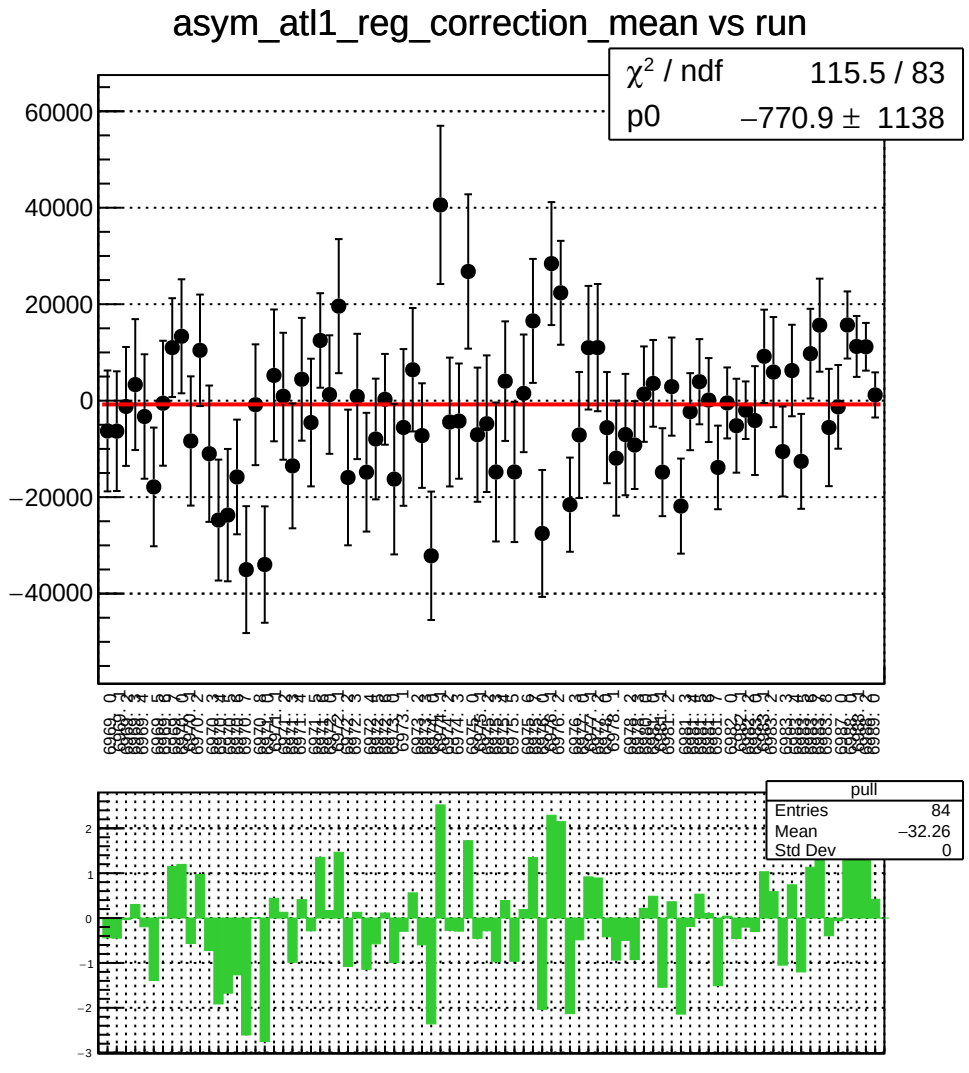

pull1D
Entries 84
Mean −0.00658
Std Dev 1.095

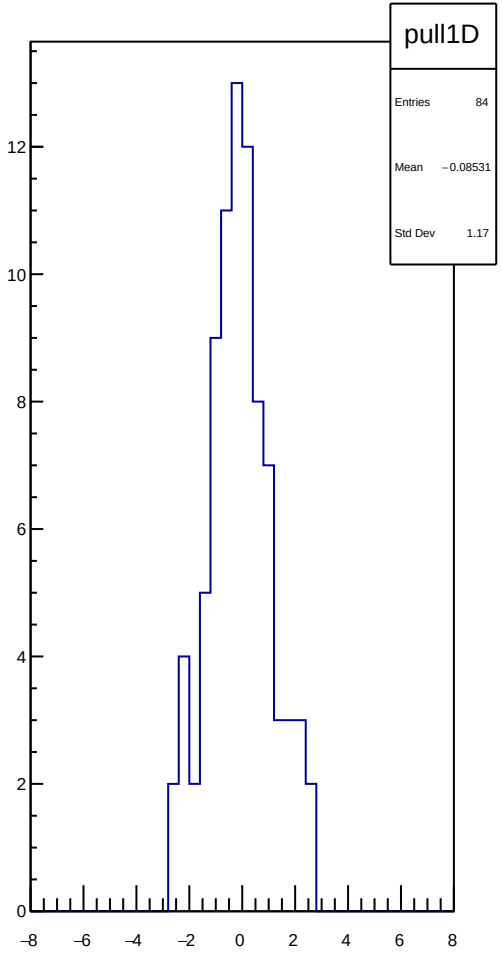

asym_us_agg_dd_rms vs run
χ² / ndf 1234 / 83
p0 978.6 ± 0.7567
1040
1020
1000
980
960
940
920

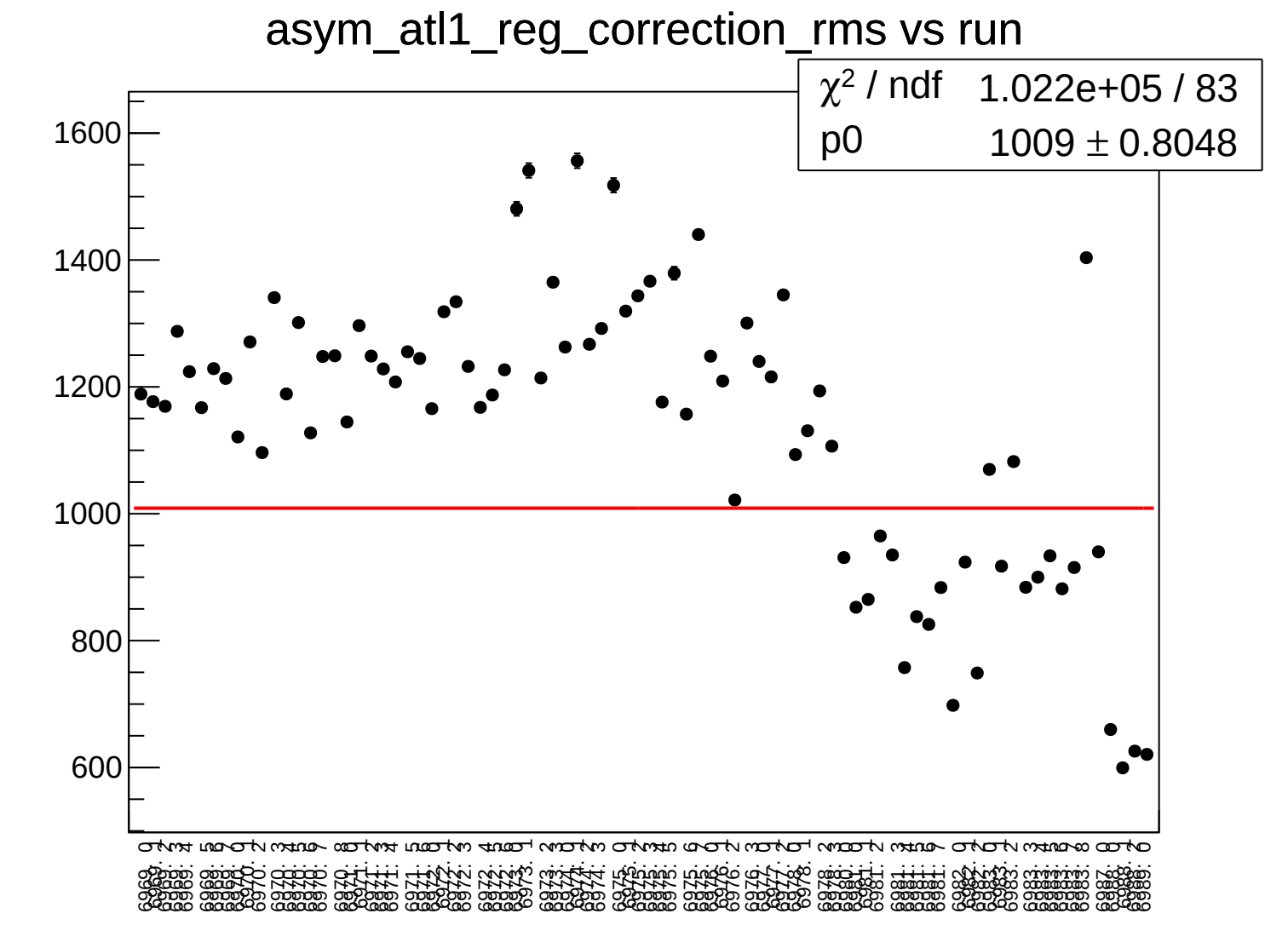

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 85.95 / 83
p0 1379 ± 2630
pull
Entries 84
Mean 1379
Std Dev 0

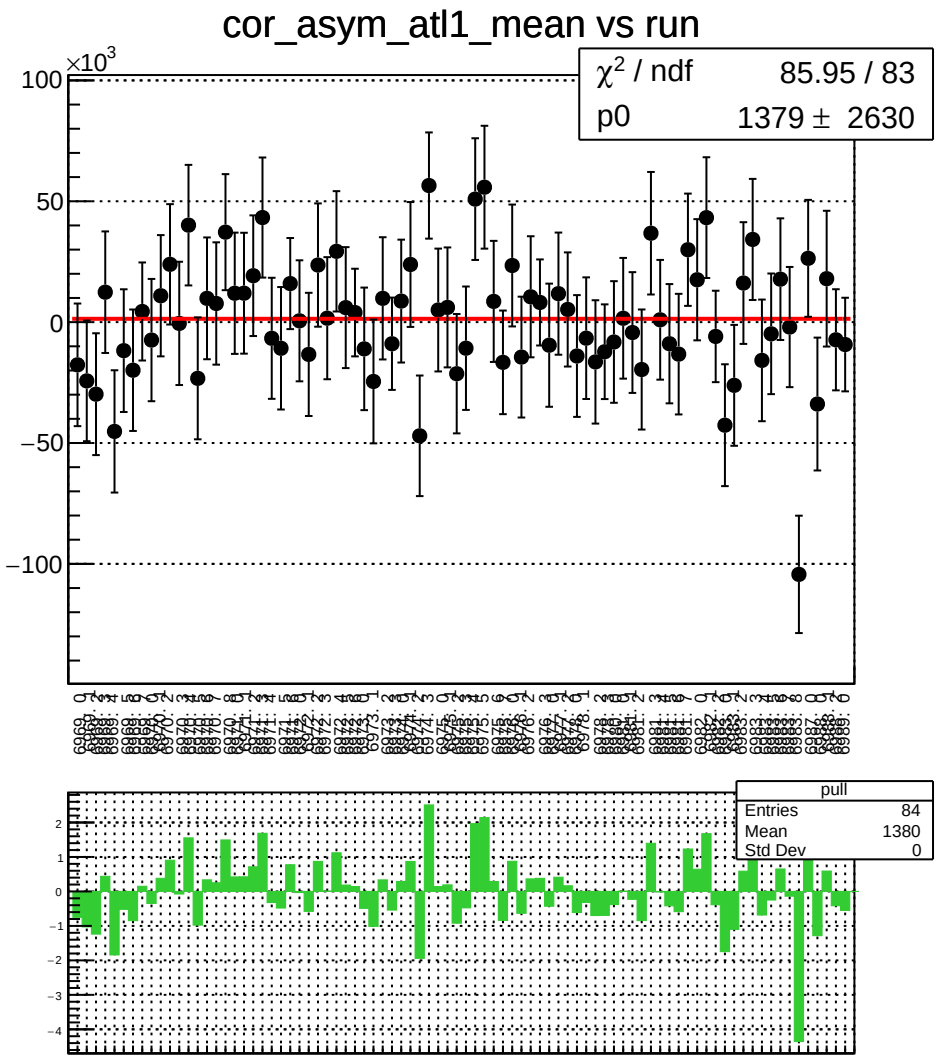

pull1D
Entries 84
Mean −0.001314
Std Dev 1.012

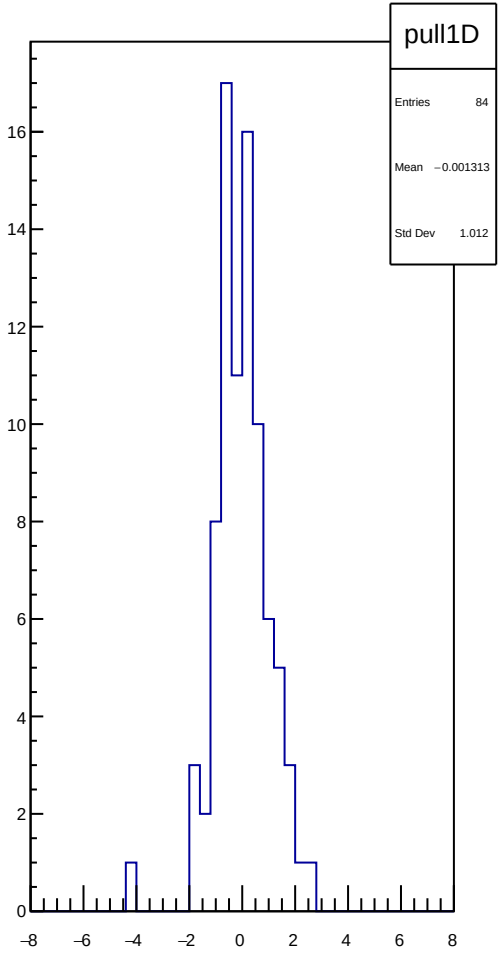

reg_asym_atl1_rms vs run
χ² / ndf 1601 / 83
p0 2405 ± 1.86
2800
2700
2600
2500
2400
2300

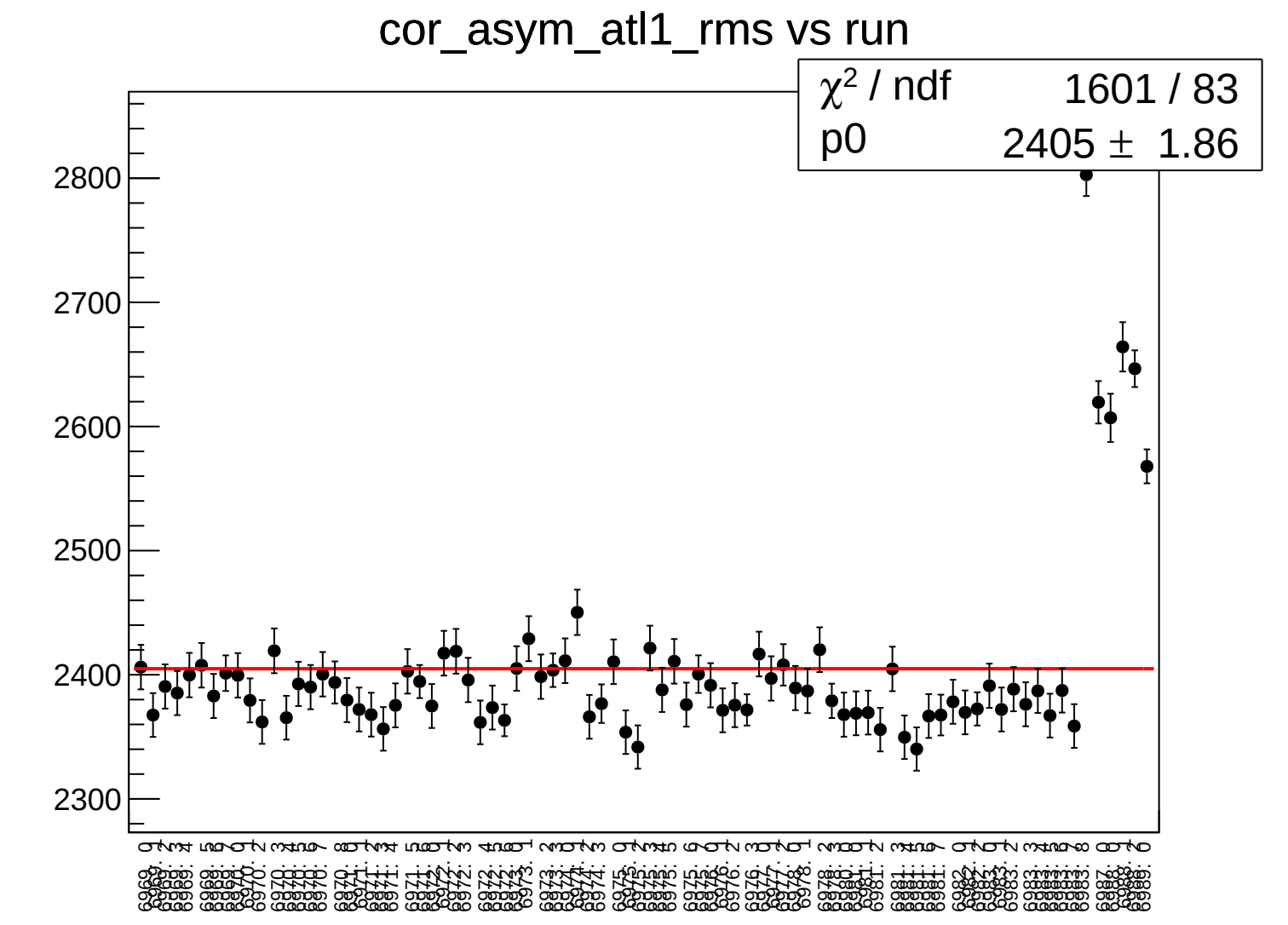

asym_atl1_reg_correction_mean vs run
χ² / ndf 115.5 / 83
p0 −770.9 ± 1138
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −32.26
Std Dev 0
2
1
0
−1
−2
−3

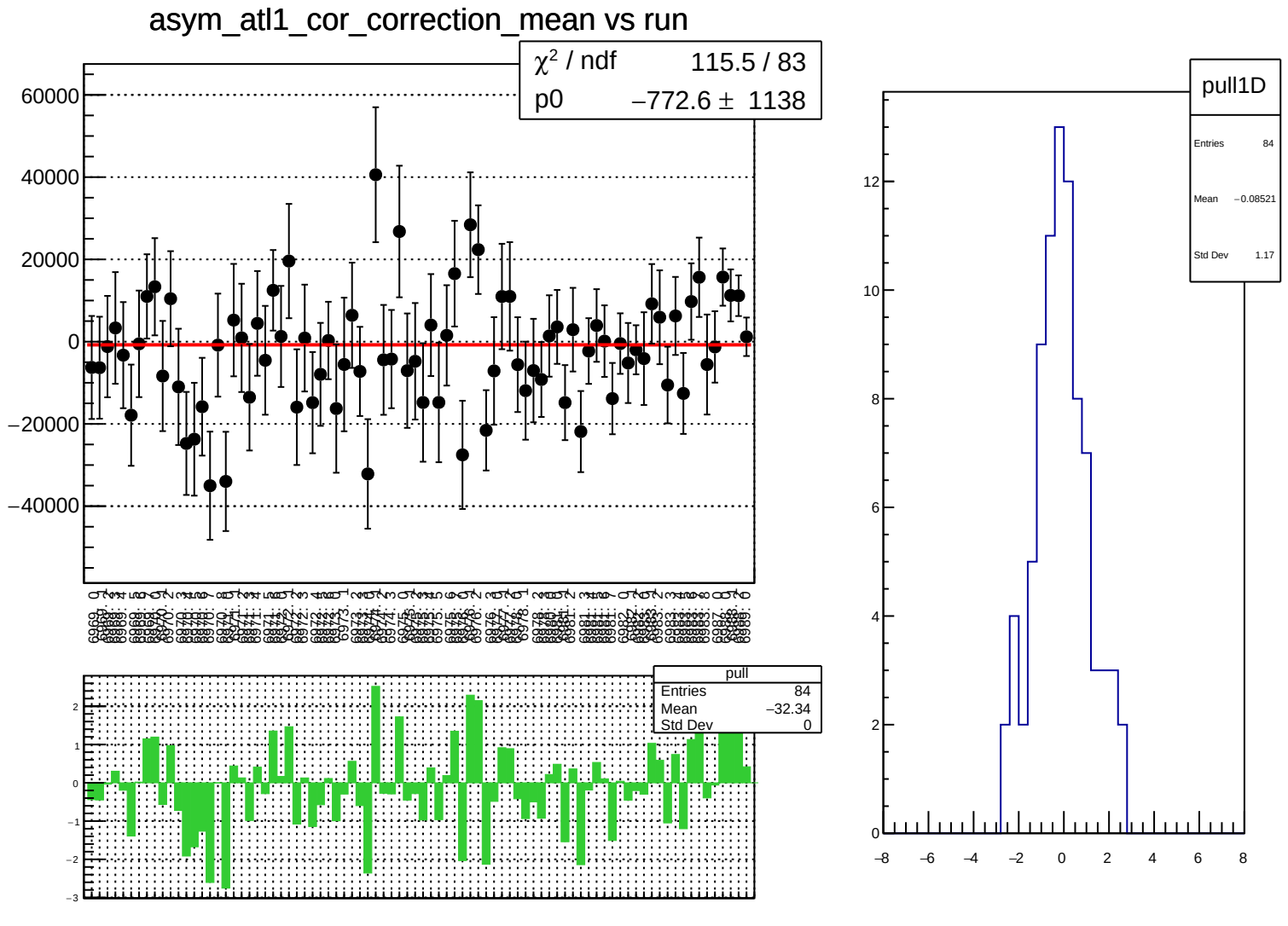

pull1D
Entries 84
Mean −0.08531
Std Dev 1.17
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

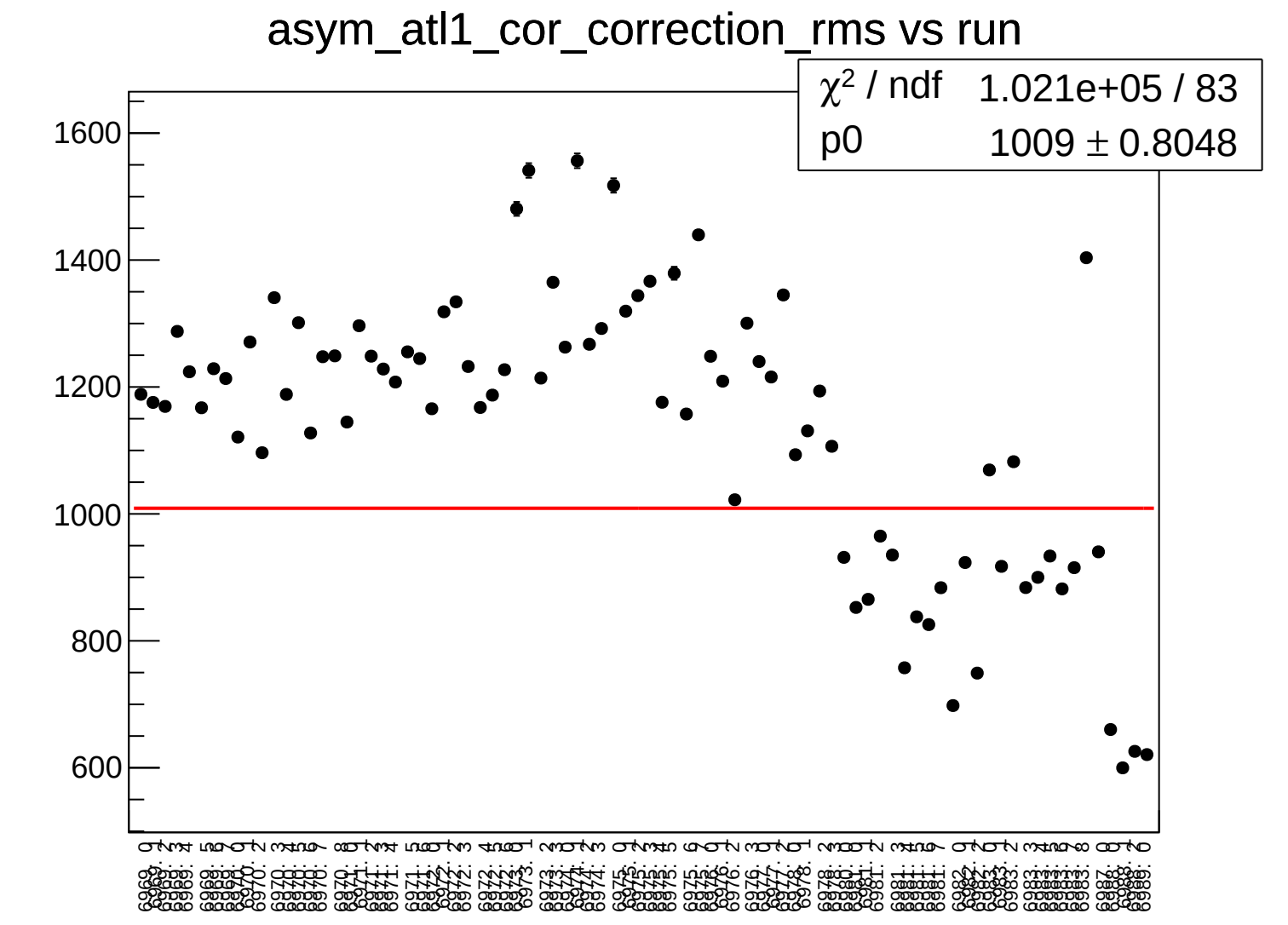

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.022e+05 / 83
p0 1009 ± 0.8048
1600
1400
1200
1000
800
600

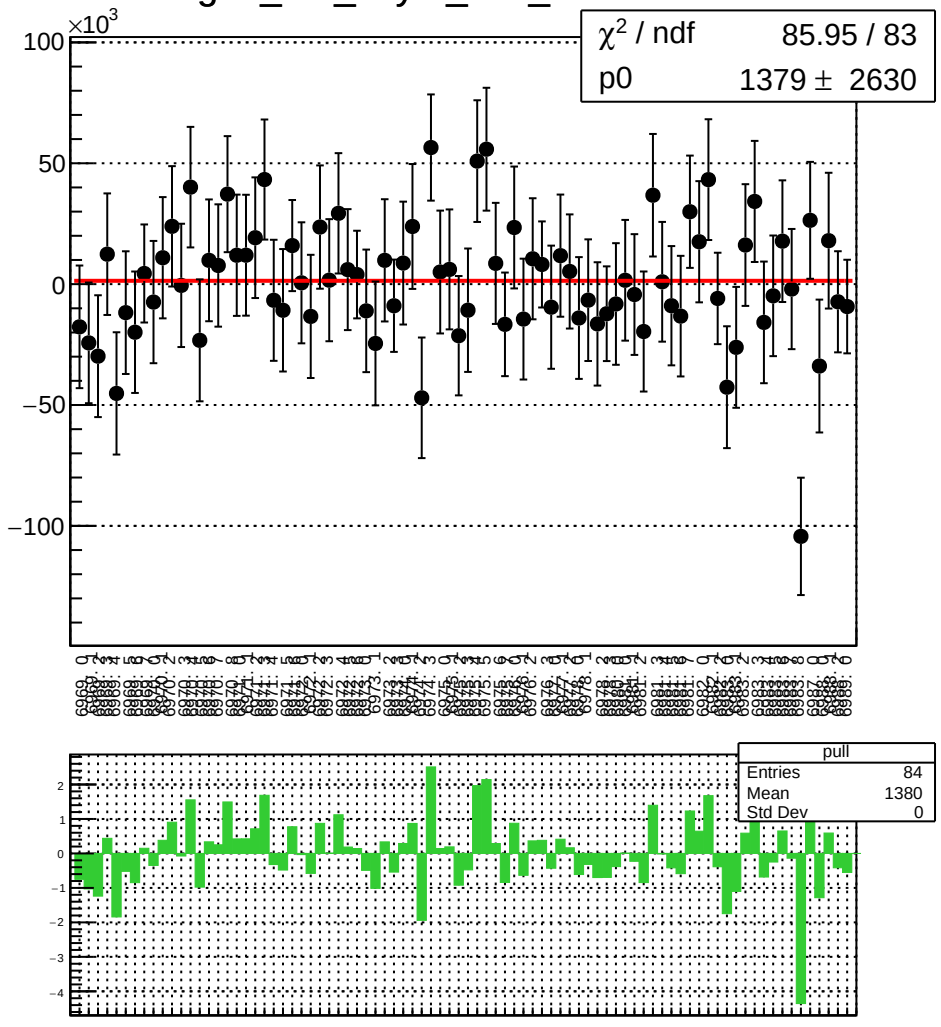

cor_asym_atl1_mean vs run
×10^3
χ² / ndf 85.95 / 83
p0 1379 ± 2630
pull
Entries 84
Mean 1380
Std Dev 0

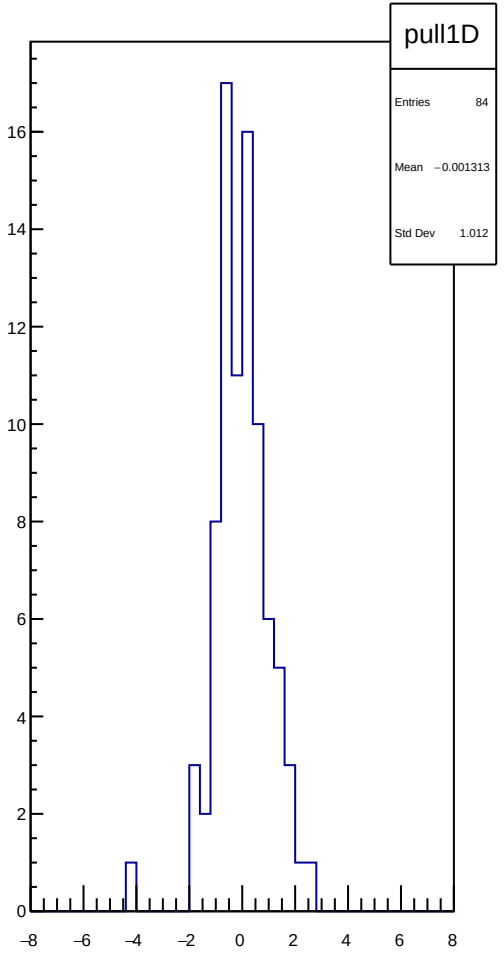

pull1D
Entries 84
Mean −0.001313
Std Dev 1.012

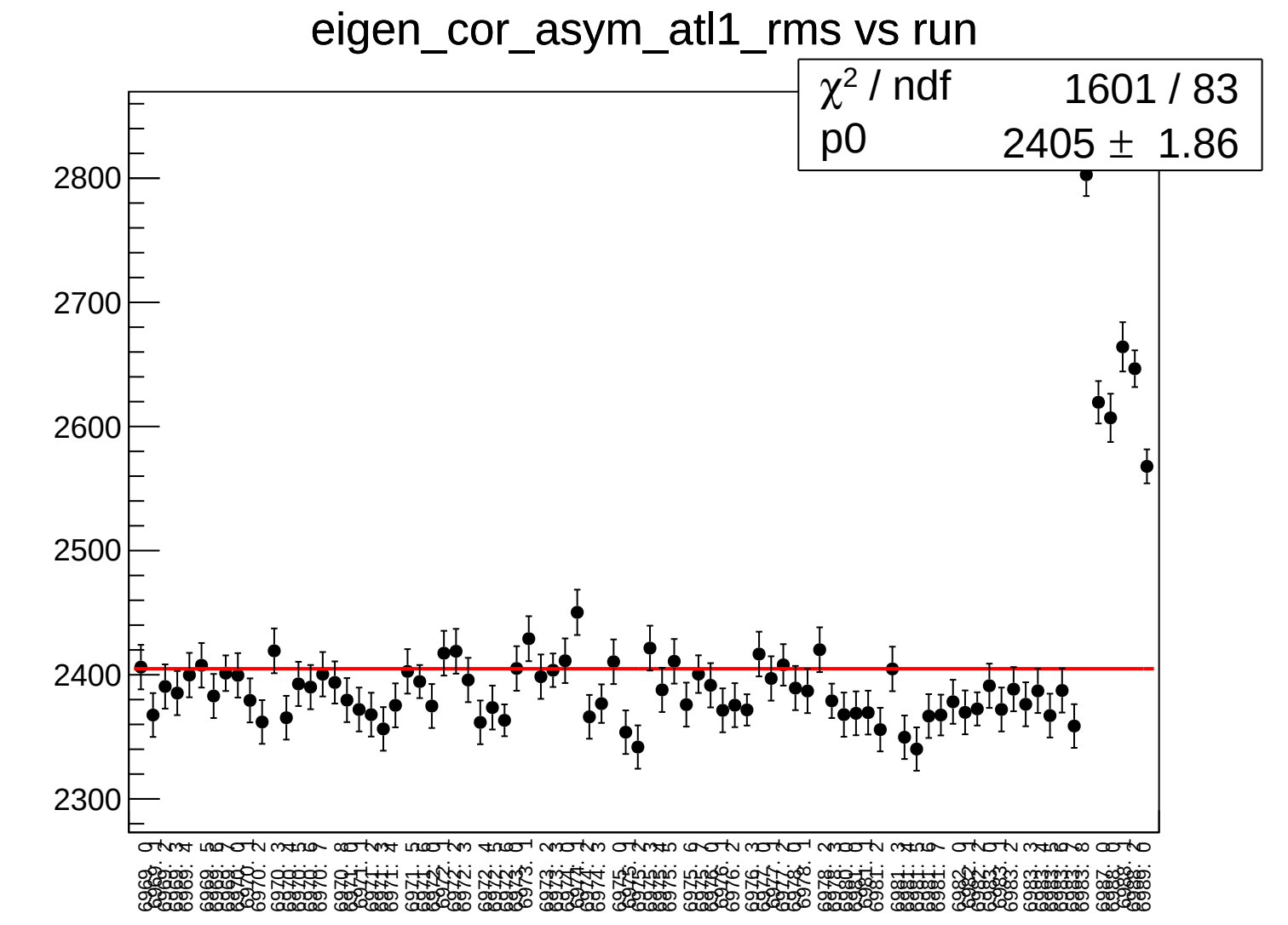

cor_asym_atl1_rms vs run
χ² / ndf 1601 / 83
p0 2405 ± 1.86
2800
2700
2600
2500
2400
2300

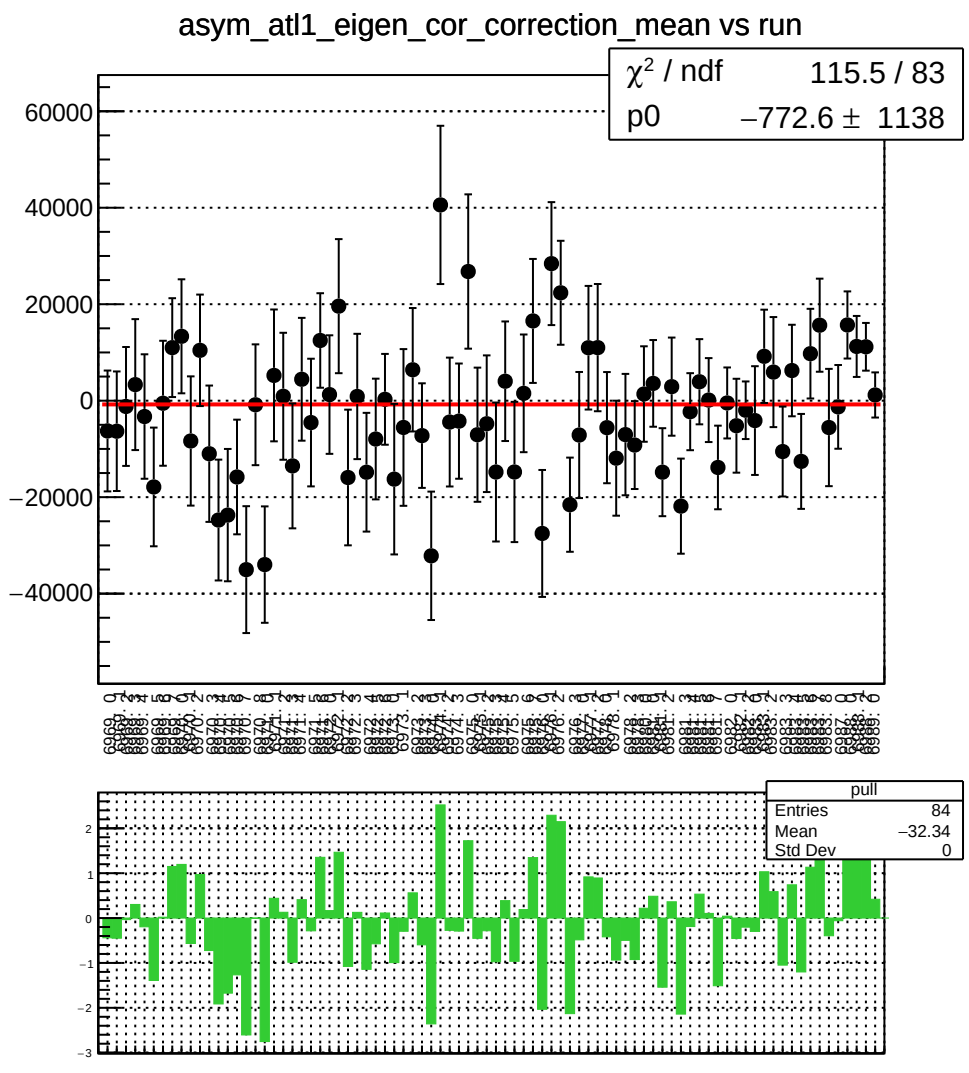

asym_atl1_cor_correction_mean vs run
χ² / ndf 115.5 / 83
p0 −772.6 ± 1138
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −32.34
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.08521
Std Dev 1.17
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

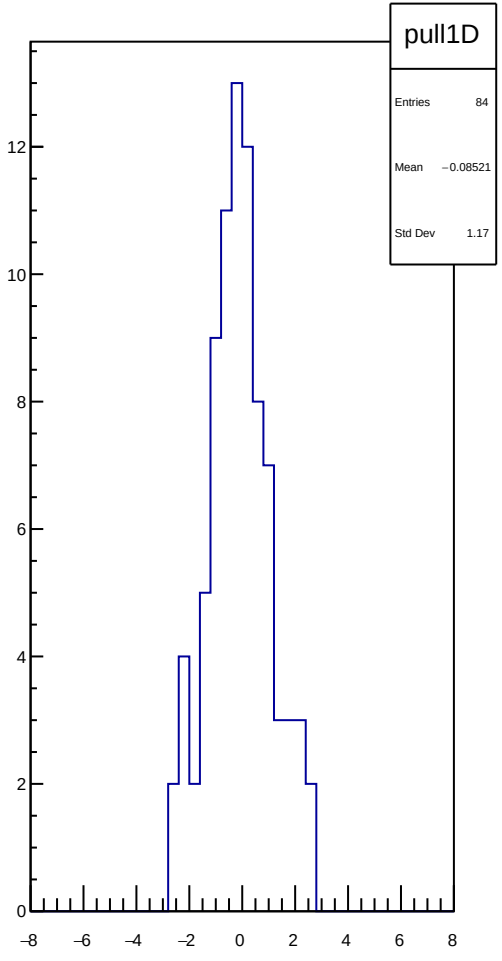

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.021e+05 / 83
p0 1009 ± 0.8048
1600
1400
1200
1000
800
600

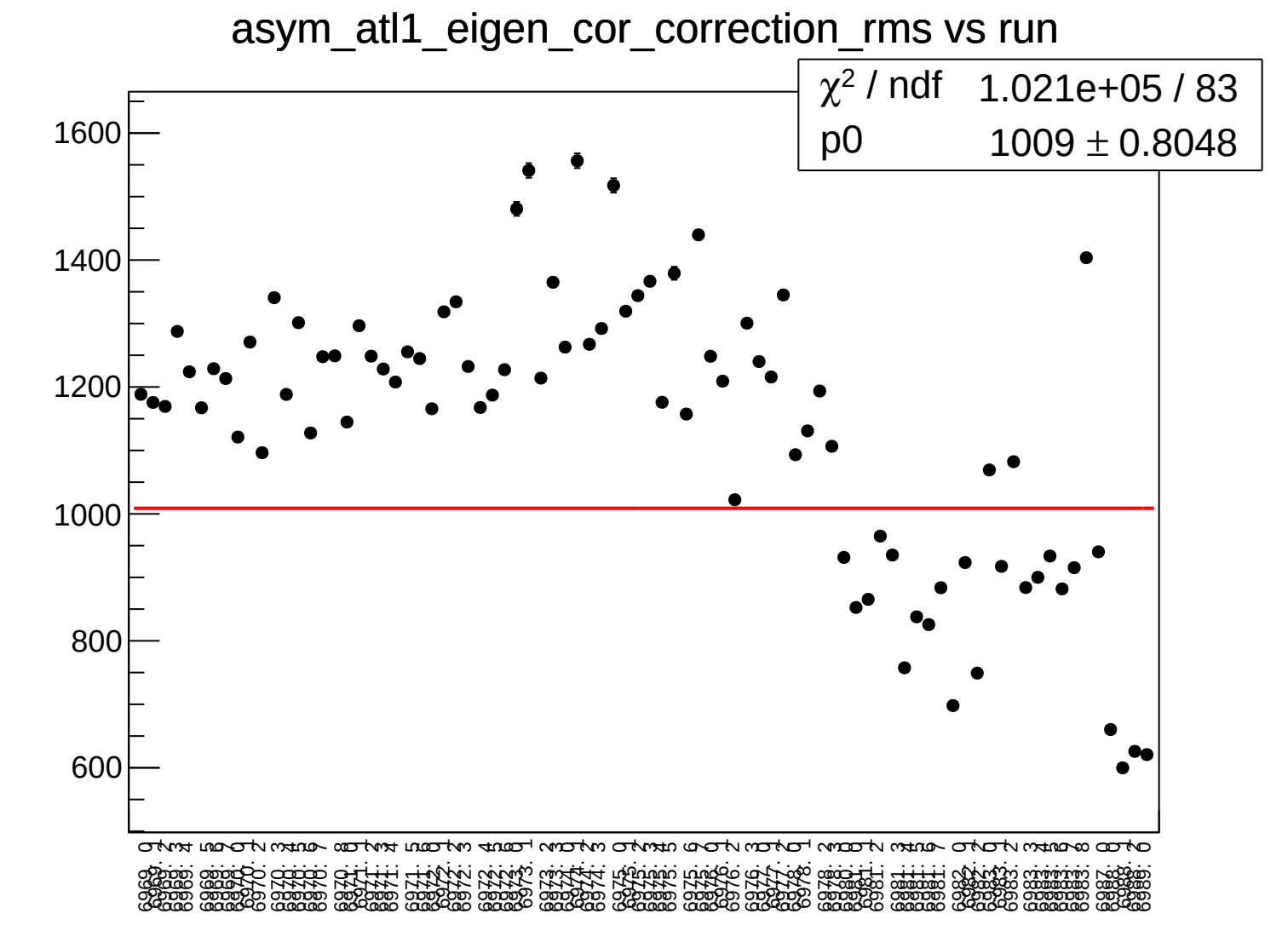

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 85.95 / 83
p0 1379 ± 2630
pull
Entries 84
Mean 1380
Std Dev 0

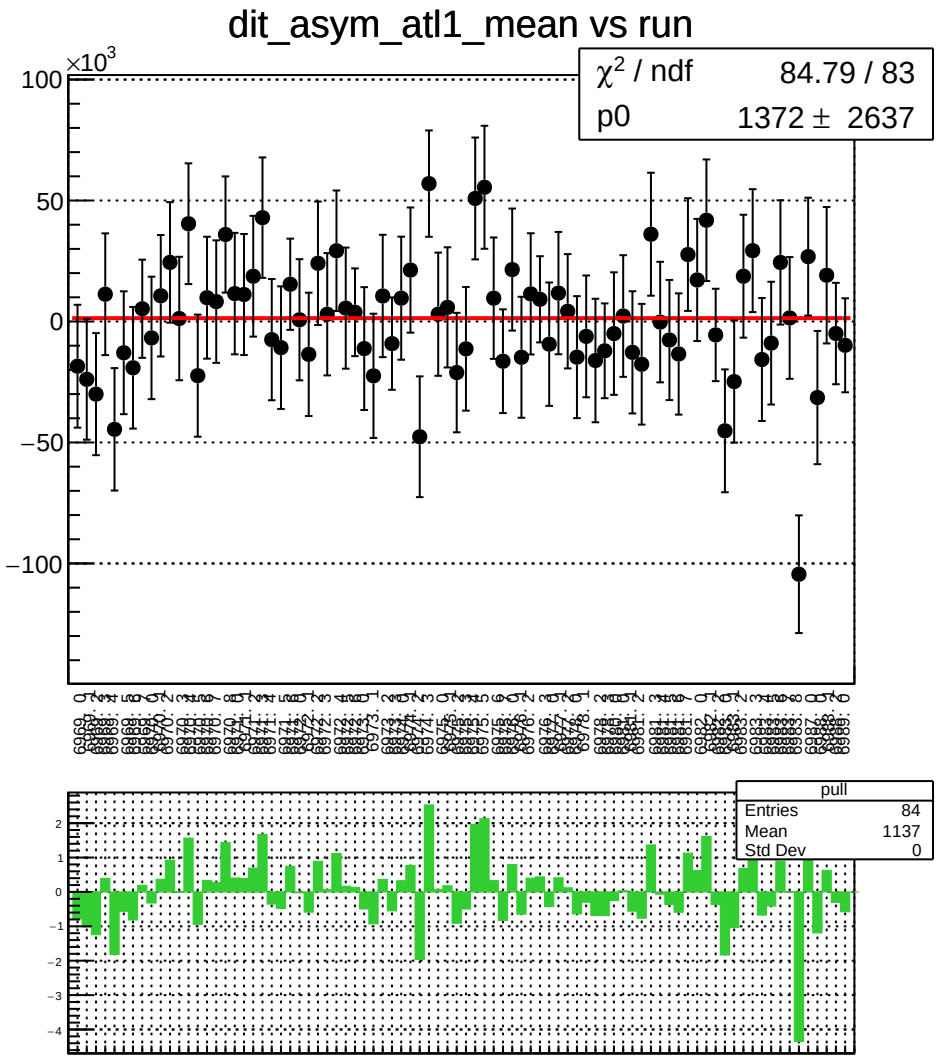

pull1D
Entries 84
Mean −0.001313
Std Dev 1.012

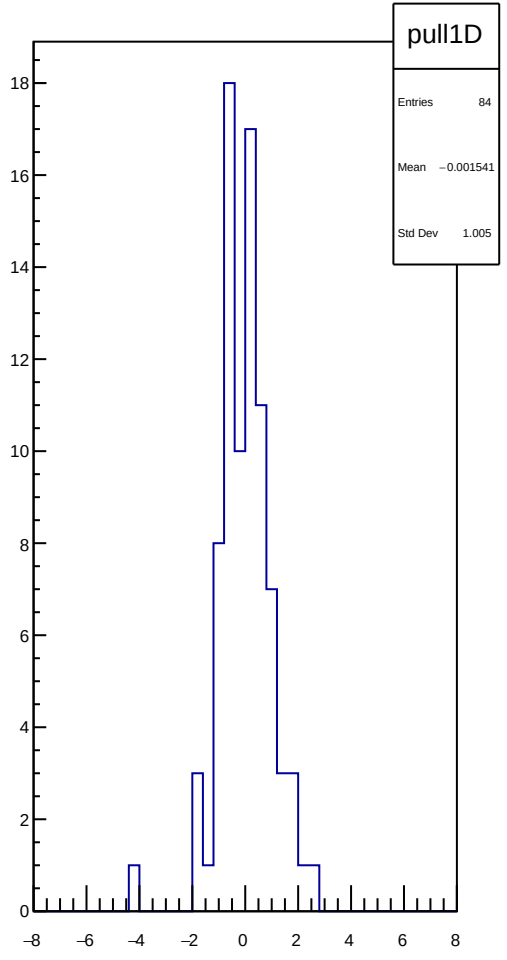

eigen_cor_asym_atl1_rms vs run
χ² / ndf 1601 / 83
p0 2405 ± 1.86
2800
2700
2600
2500
2400
2300

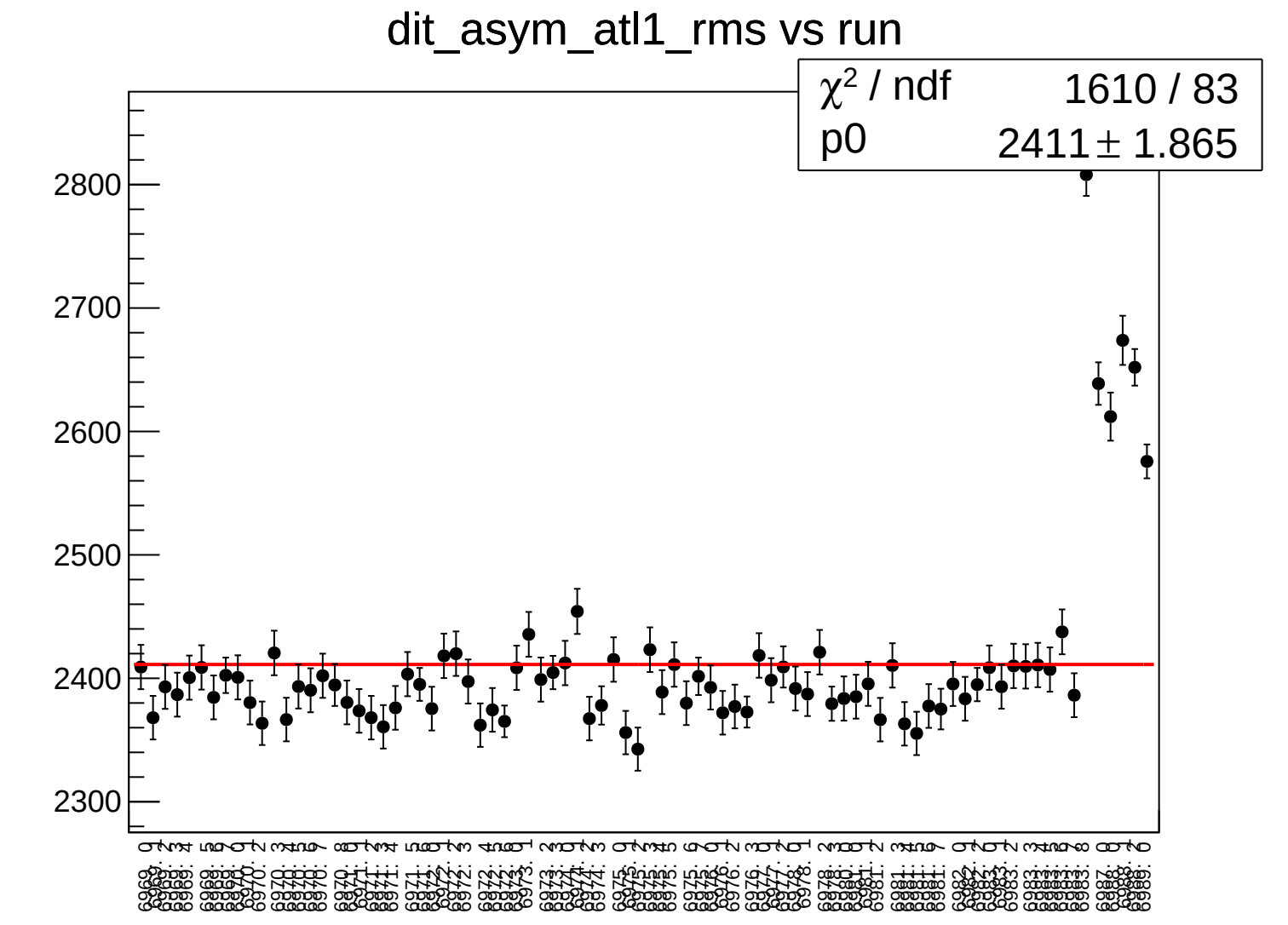

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 115.5 / 83
p0 −772.6 ± 1138
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −32.34
Std Dev 0
2
1
0
−1
−2
−3

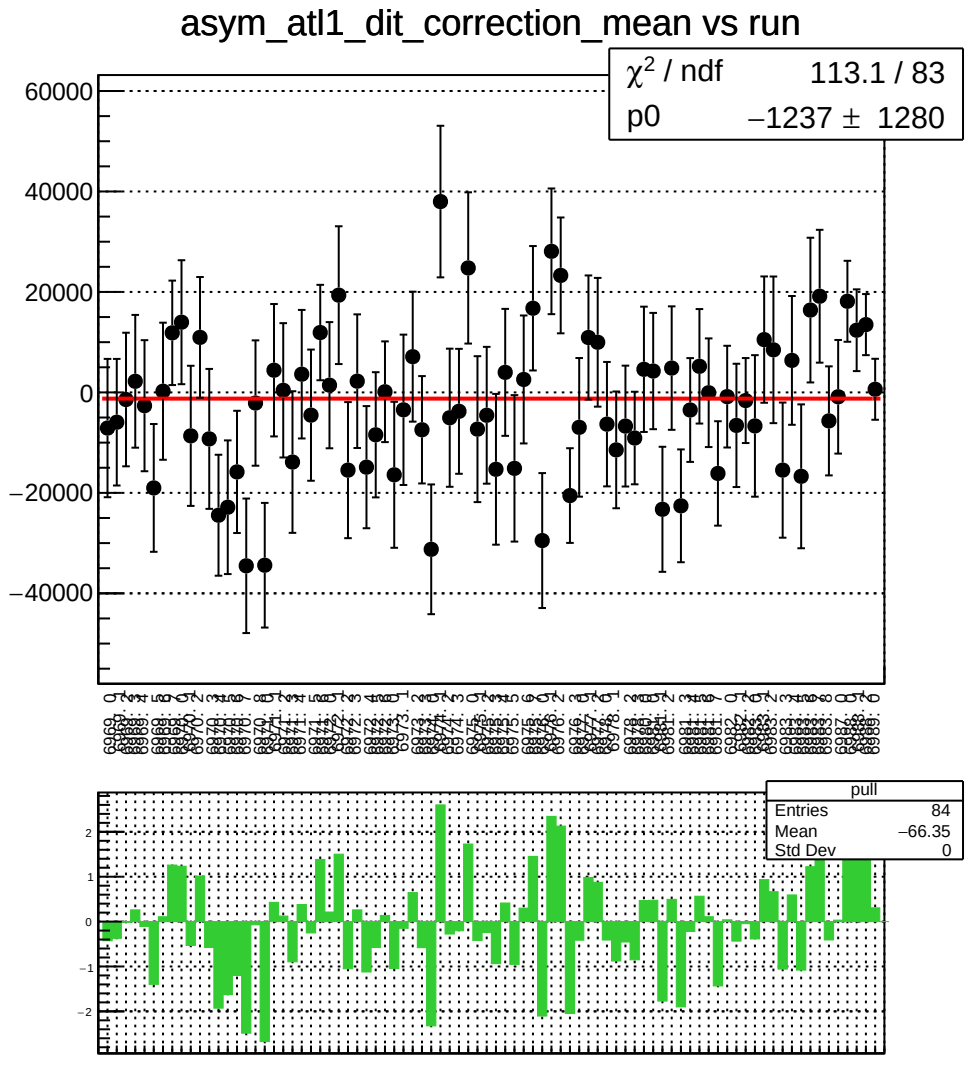

pull1D
Entries 84
Mean −0.08521
Std Dev 1.17
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

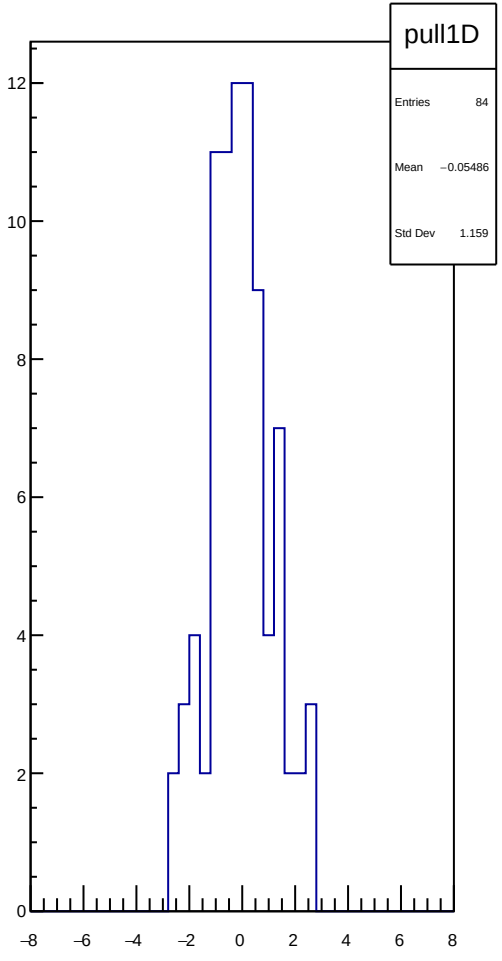

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.021e+05 / 83
p0 1009 ± 0.8048
1600
1400
1200
1000
800
600

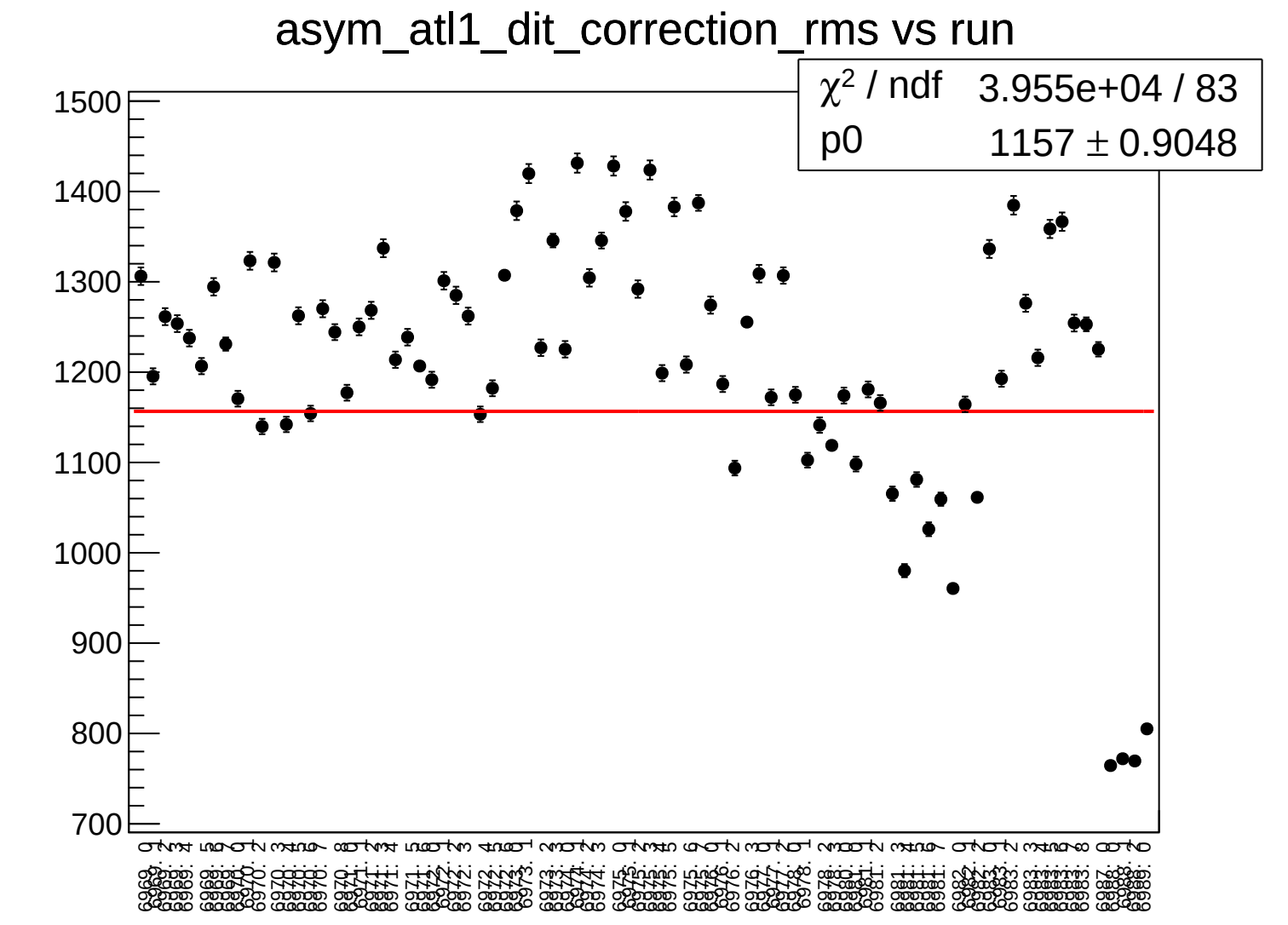

dit_asym_atl1_mean vs run
χ² / ndf 84.79 / 83
p0 1372 ± 2637
×10³
100
50
0
−50
−100
pull
Entries 84
Mean 1137
Std Dev 0
2
1
0
−1
−2
−3
−4

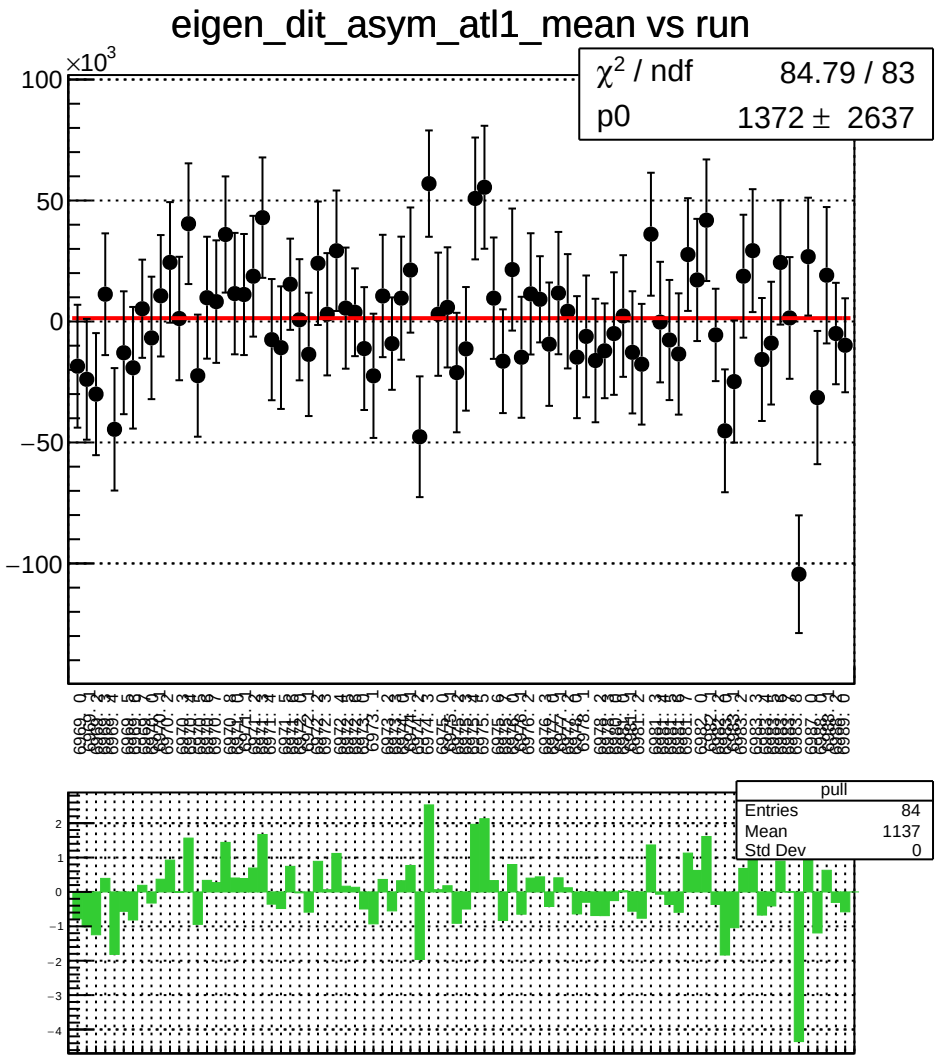

pull1D
Entries 84
Mean −0.001541
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

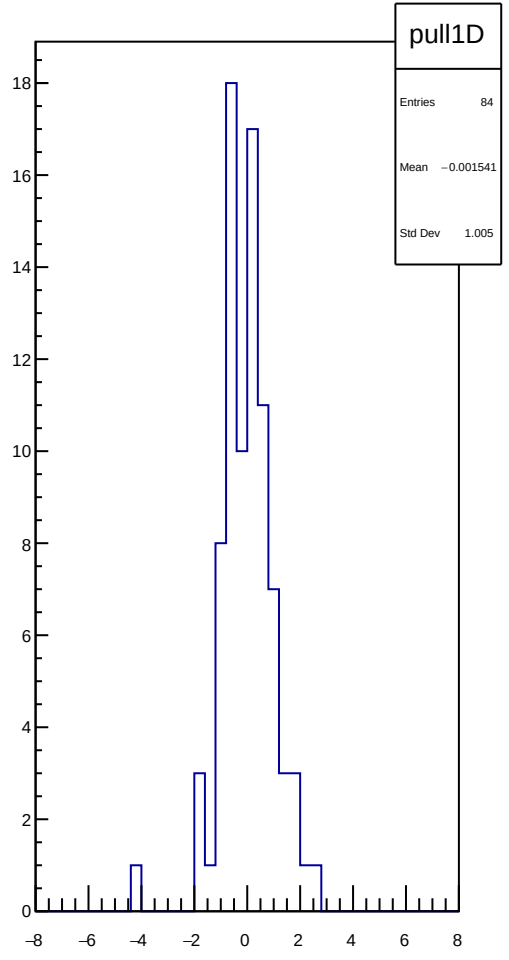

dit_asym_atl1_rms vs run
χ² / ndf 1610 / 83
p0 2411 ± 1.865
2800
2700
2600
2500
2400
2300

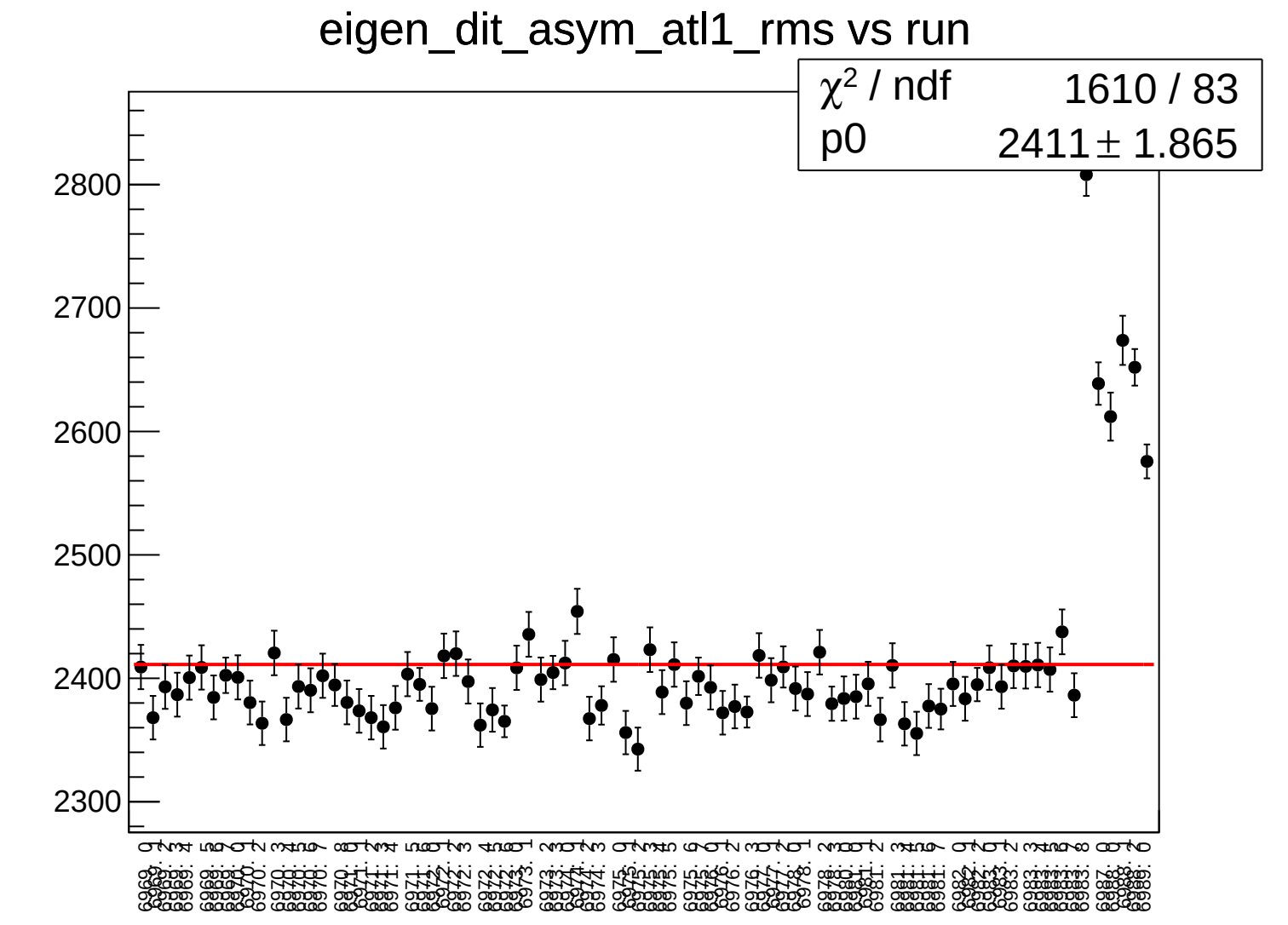

asym_atl1_dit_correction_mean vs run
χ² / ndf 113.1 / 83
p0 −1237 ± 1280
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −66.35
Std Dev 0
2
1
0
−1
−2

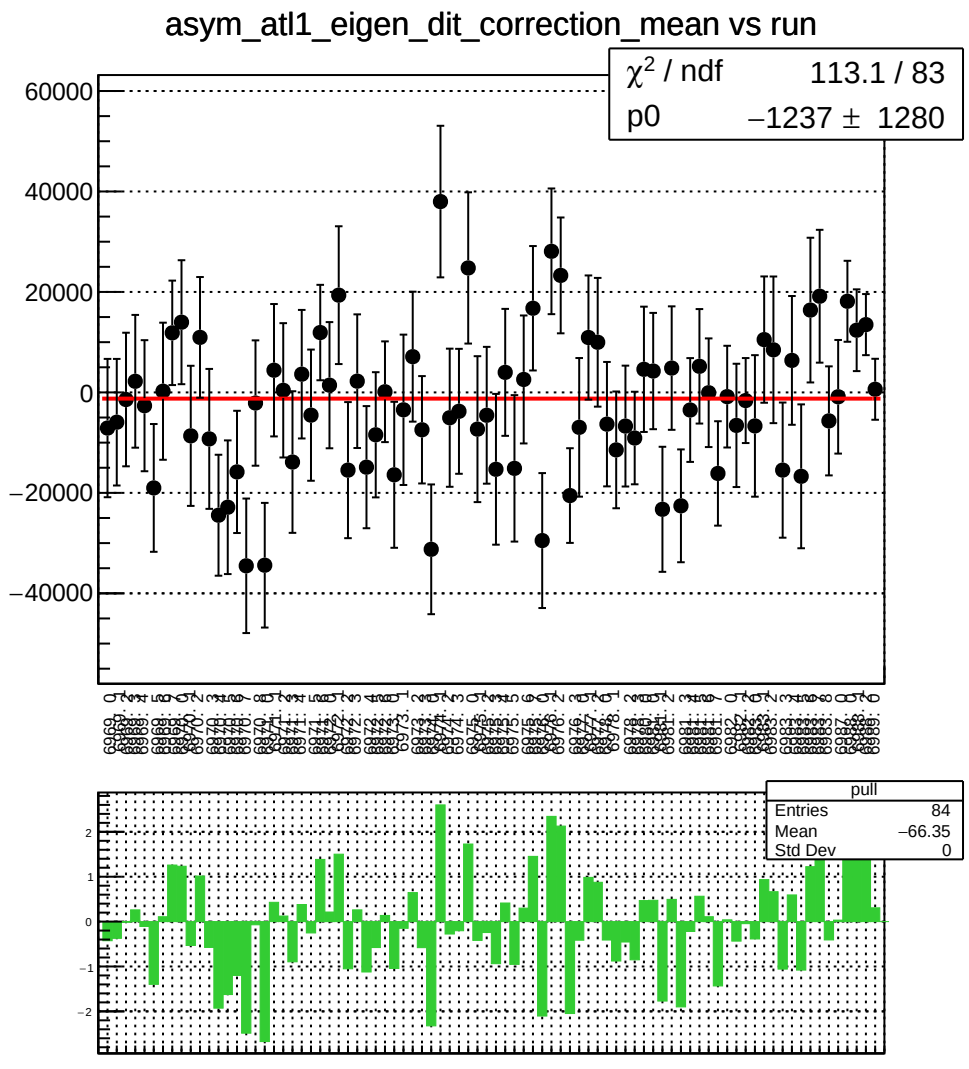

pull1D
Entries 84
Mean −0.05486
Std Dev 1.159
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

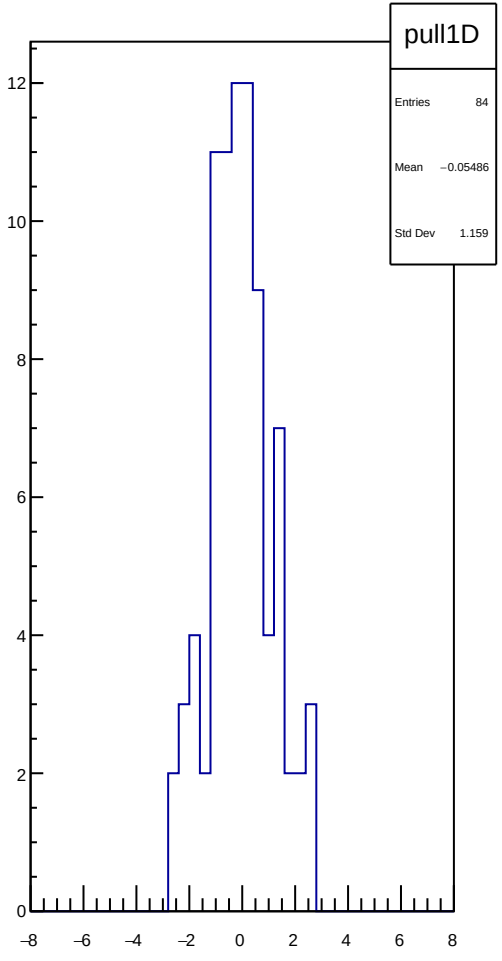

asym_atl1_dit_correction_rms vs run
χ² / ndf 3.955e+04 / 83
p0 1157 ± 0.9048
1500
1400
1300
1200
1100
1000
900
800
700

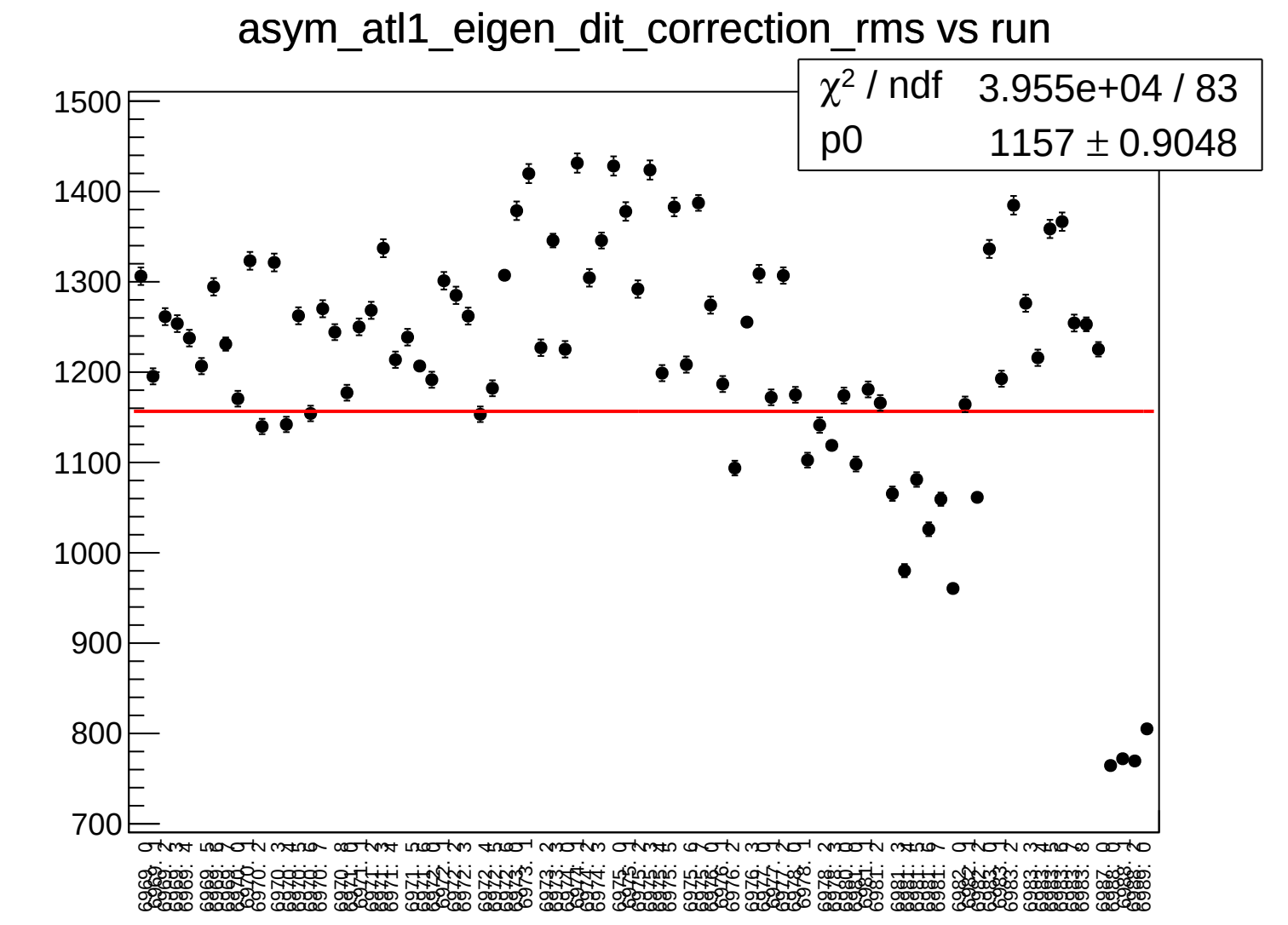

eigen_dit_asym_atl1_mean vs run
χ² / ndf 84.79 / 83
p0 1372 ± 2637
×10³
100
50
0
−50
−100
pull
Entries 84
Mean 1137
Std Dev 0
2
1
0
−1
−2
−3
−4

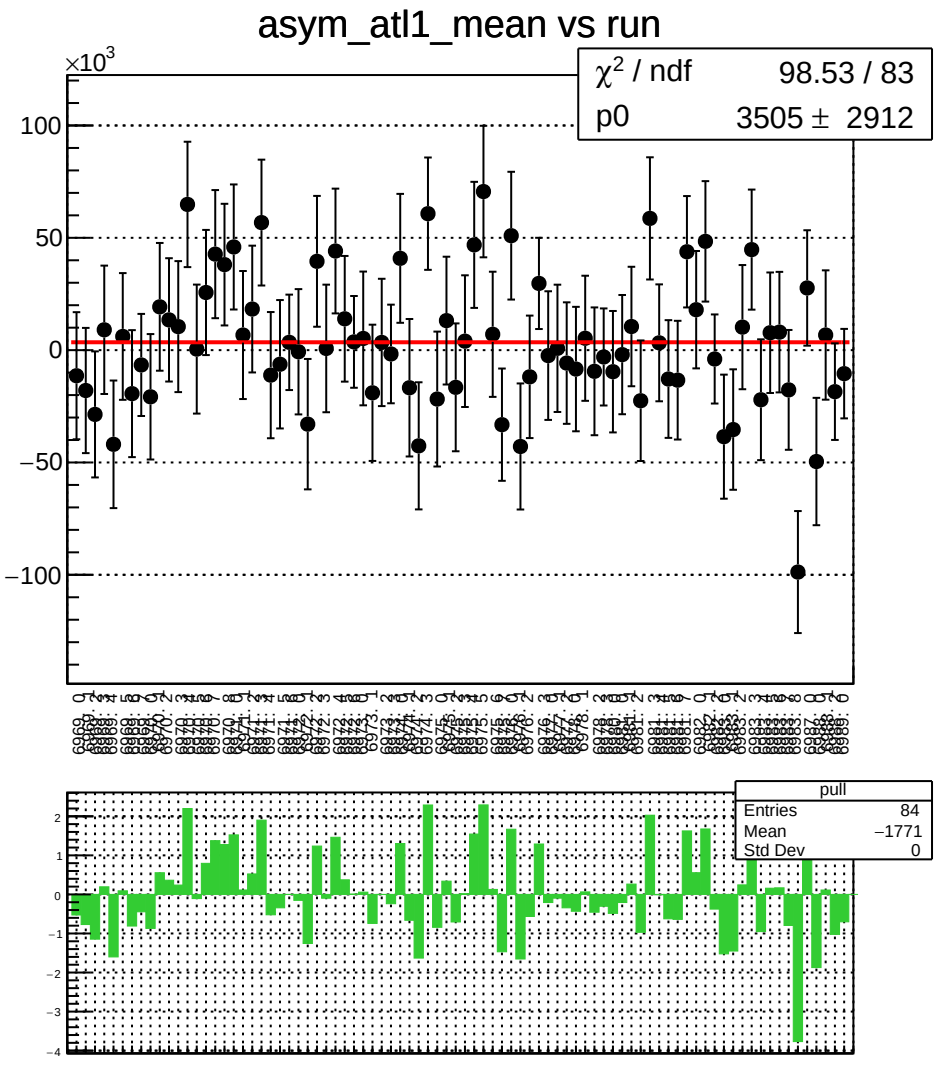

pull1D
Entries 84
Mean −0.001541
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

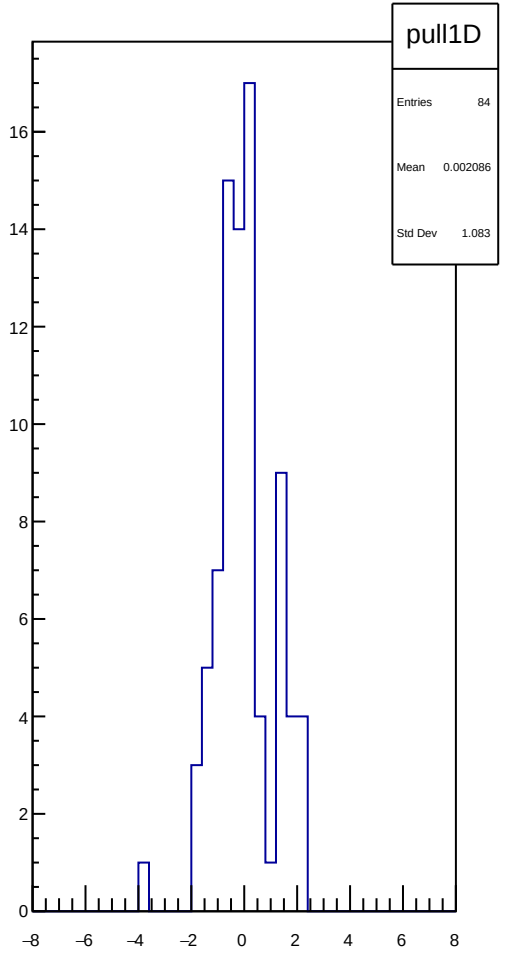

eigen_dit_asym_atl1_rms vs run
χ² / ndf 1610 / 83
p0 2411 ± 1.865
2800
2700
2600
2500
2400
2300

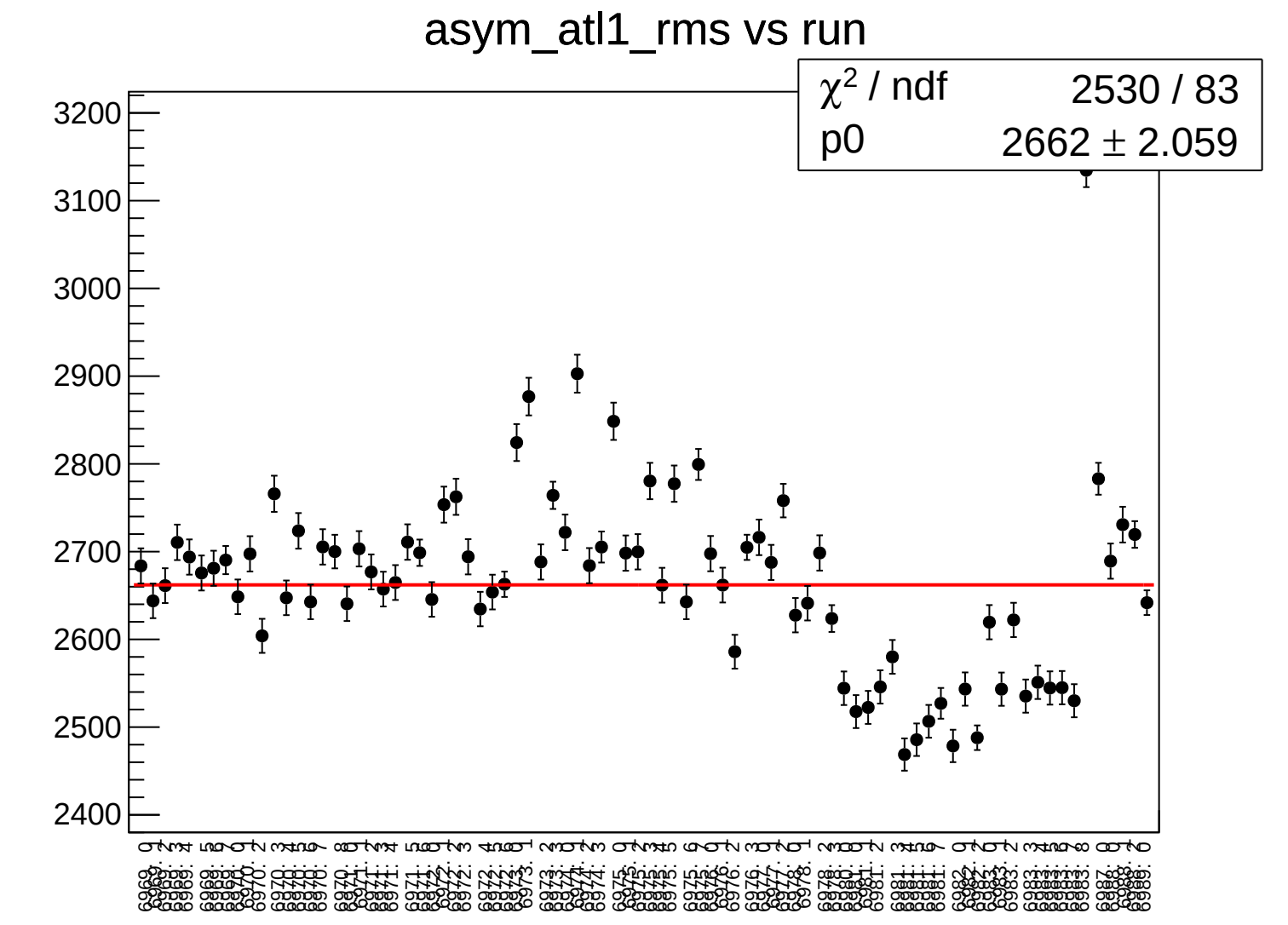

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 113.1 / 83
p0 −1237 ± 1280
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −66.35
Std Dev 0
2
1
0
−1
−2

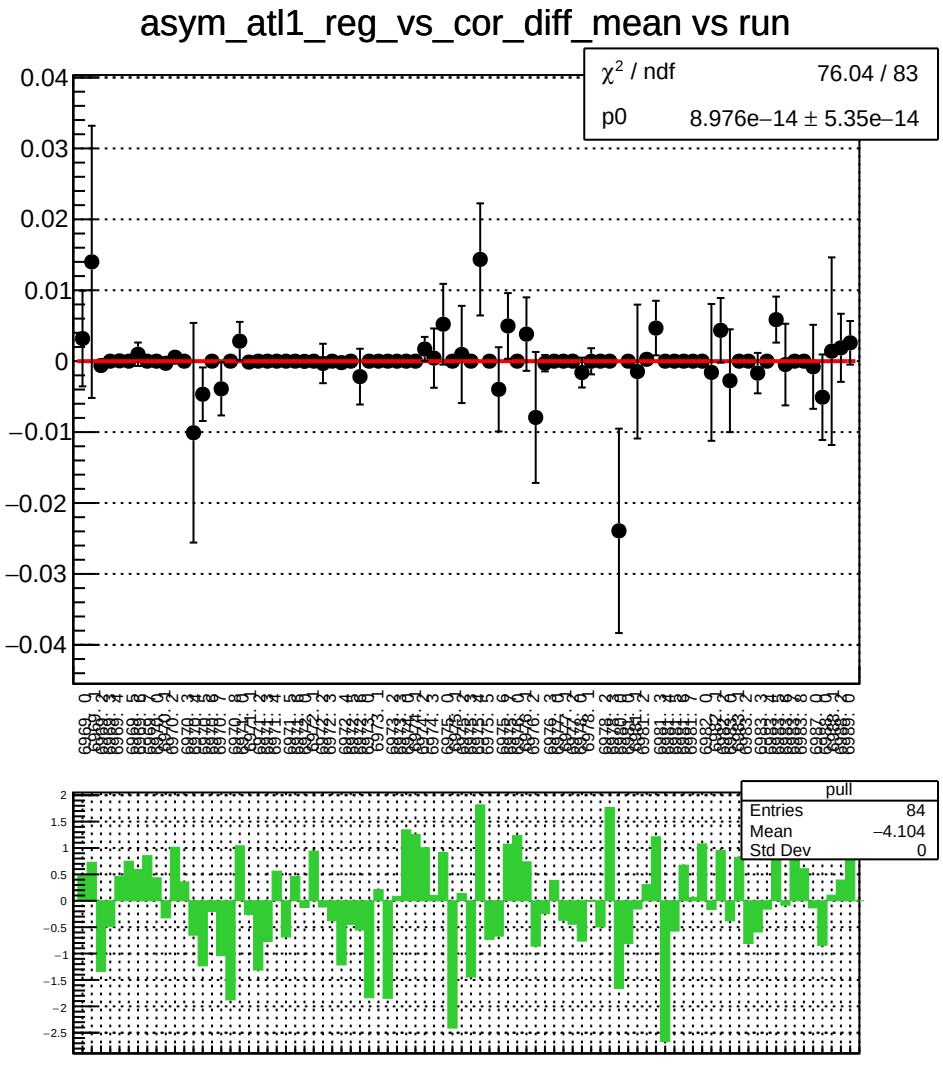

pull1D
Entries 84
Mean −0.05486
Std Dev 1.159
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

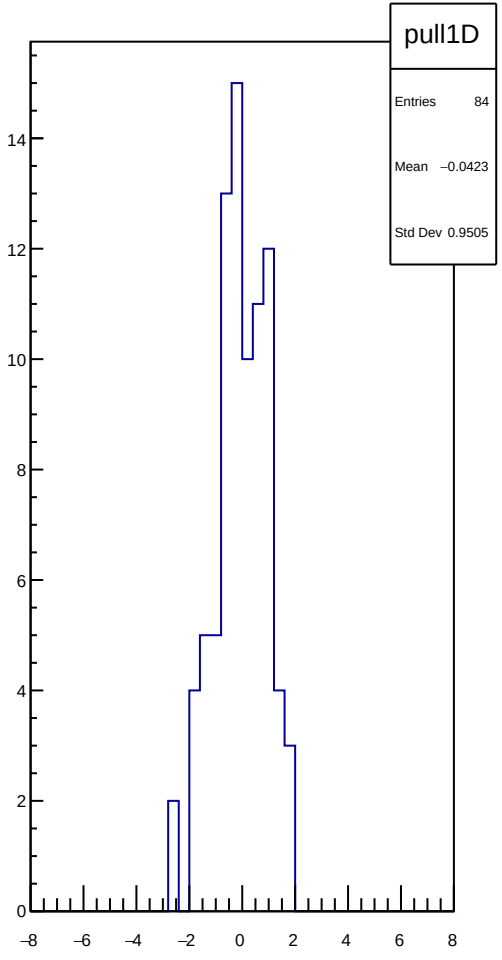

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 3.955e+04 / 83
p0 1157 ± 0.9048
1500
1400
1300
1200
1100
1000
900
800
700

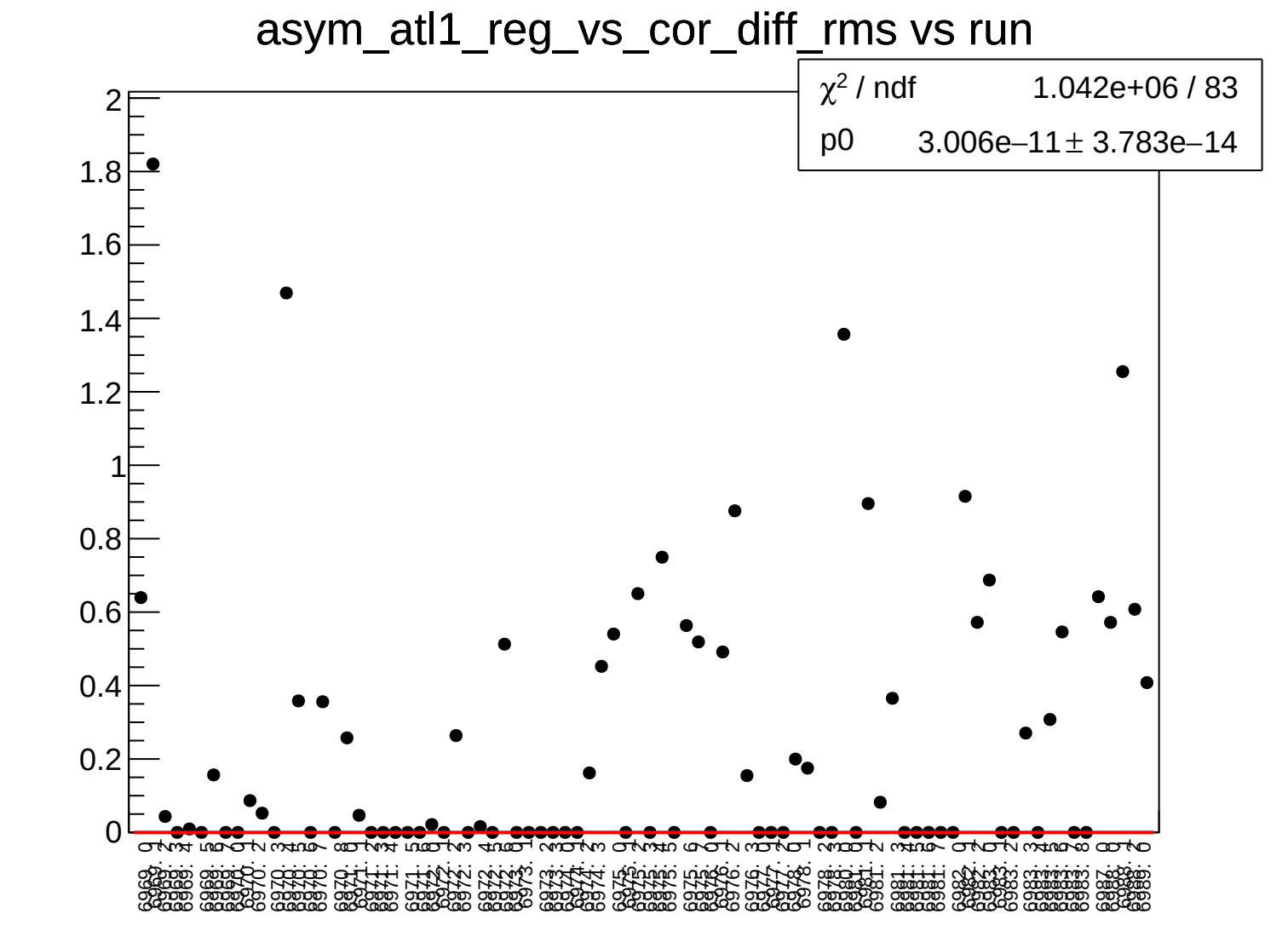

asym_atl1_mean vs run
×10^3
χ² / ndf 98.53 / 83
p0 3505 ± 2912
100
50
0
−50
−100
pull
Entries 84
Mean −1771
Std Dev 0
2
1
0
−1
−2
−3
−4

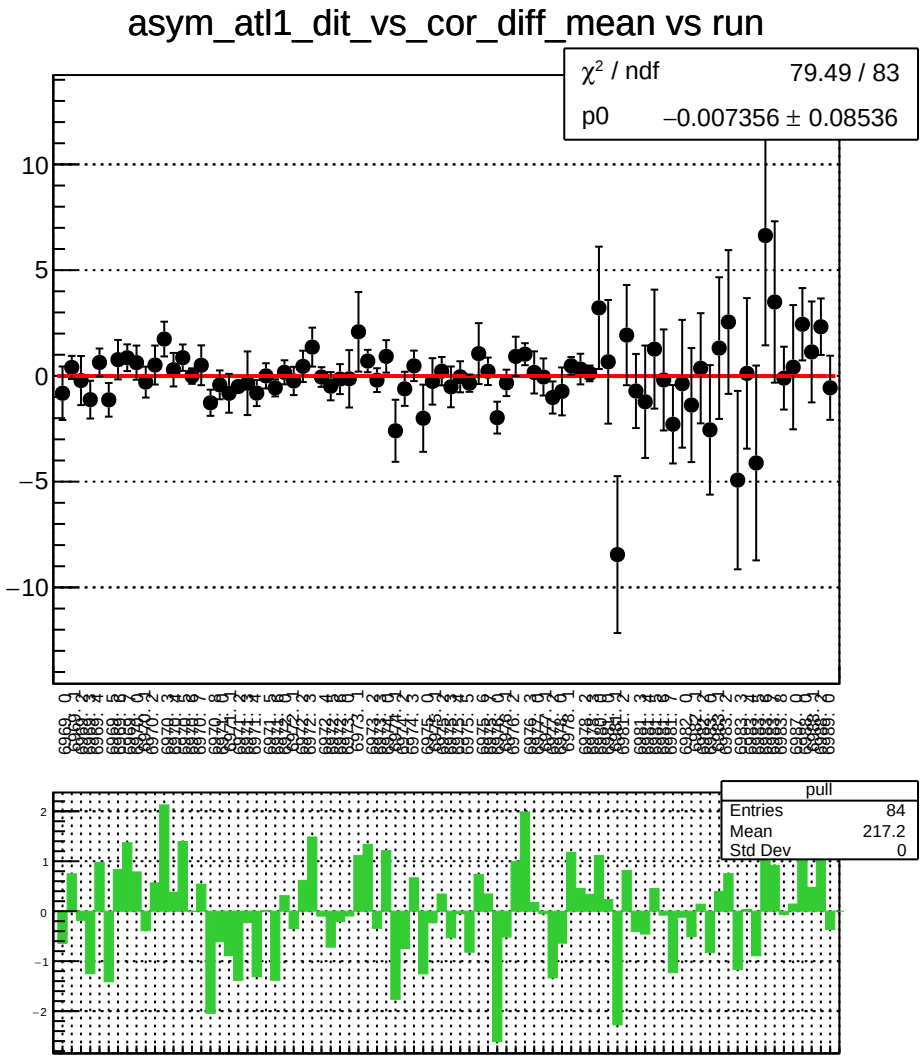

pull1D
Entries 84
Mean 0.002086
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

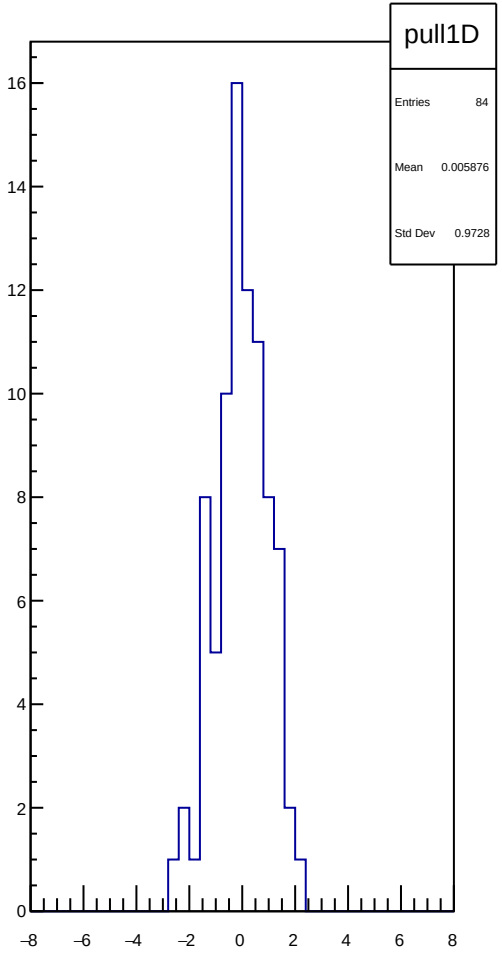

asym_atl1_rms vs run
χ^2 / ndf 2530 / 83
p0 2662 ± 2.059
3200
3100
3000
2900
2800
2700
2600
2500
2400

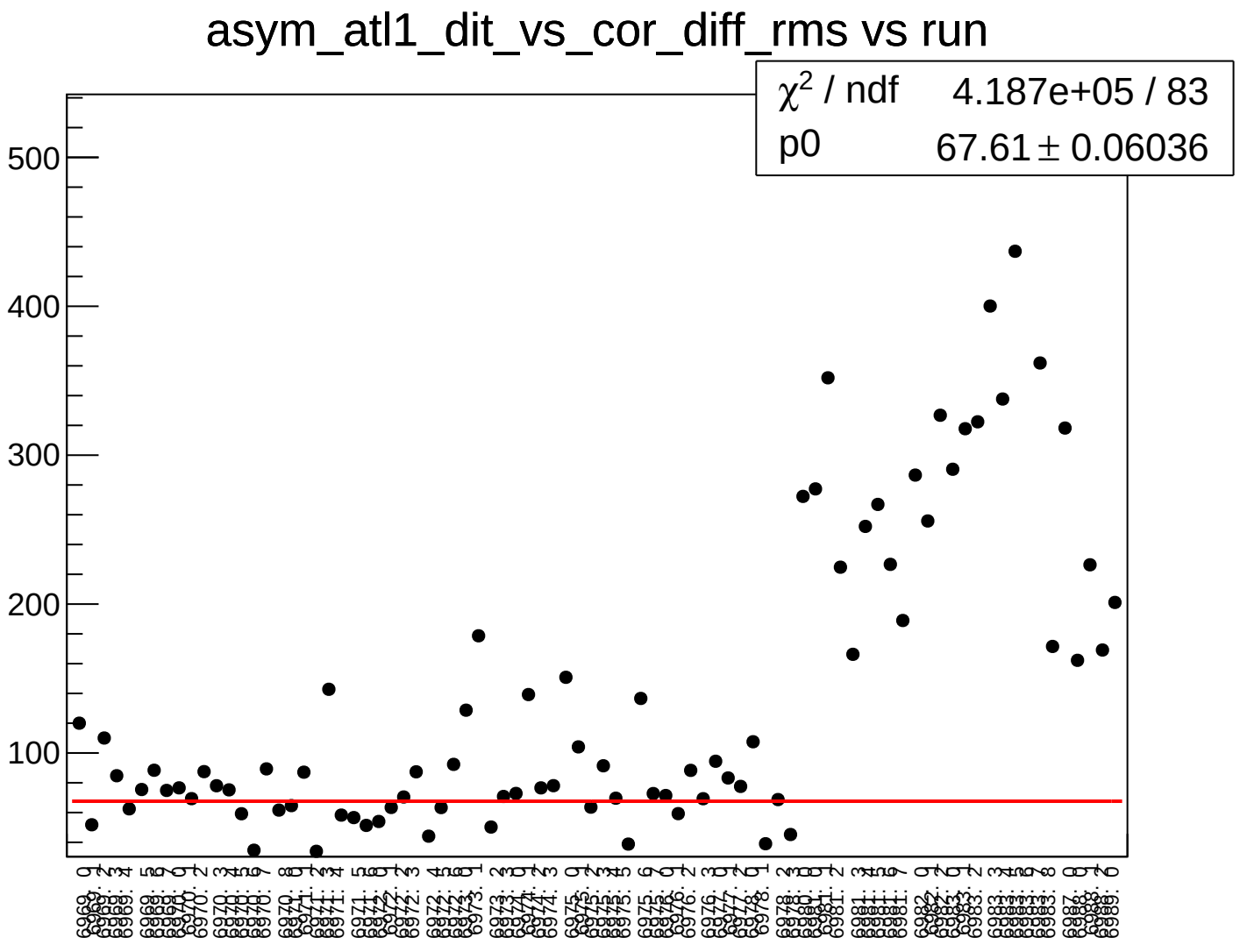

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 76.04 / 83
p0 8.976e−14 ± 5.35e−14
pull
Entries 84
Mean −4.104
Std Dev 0

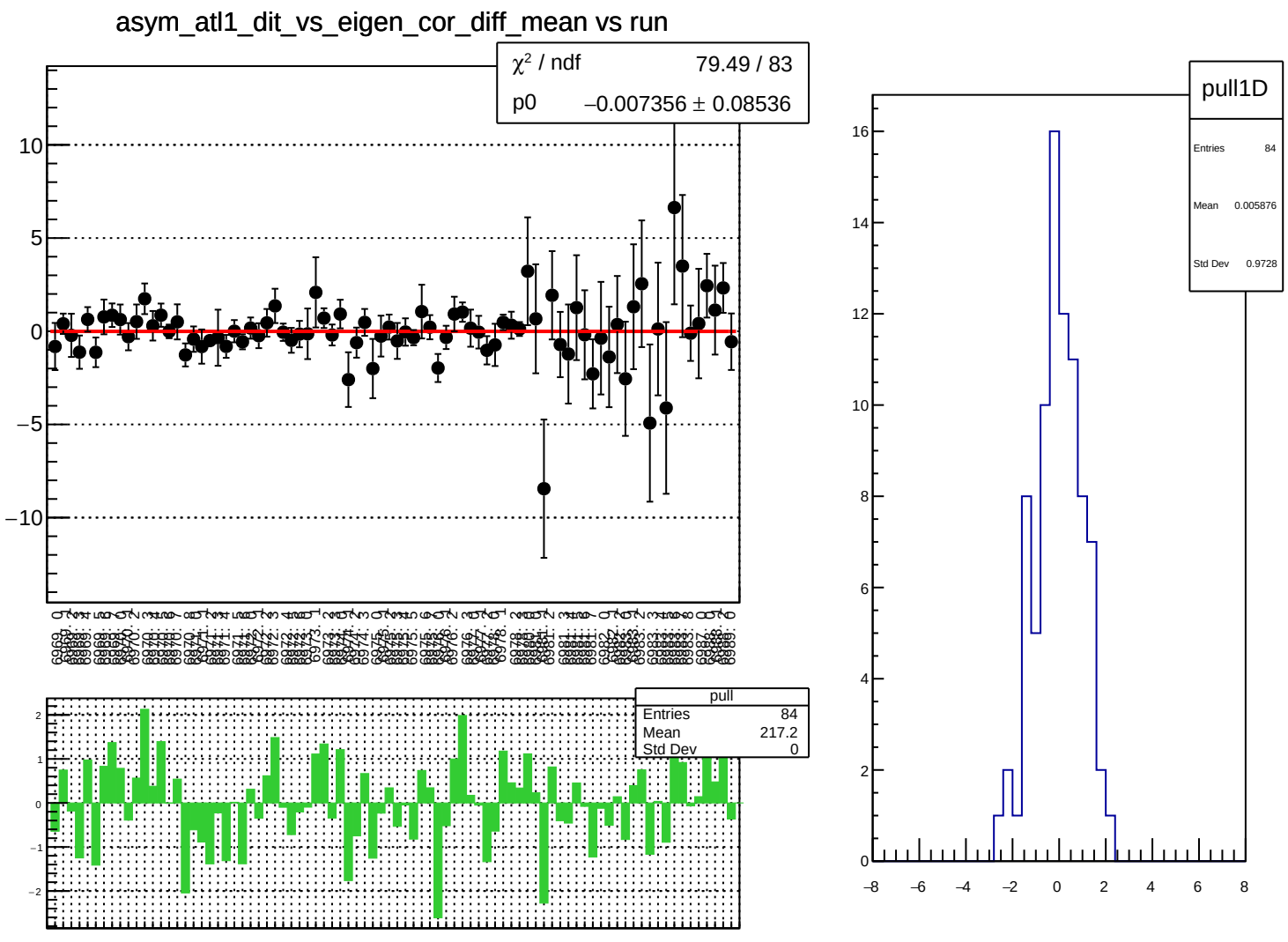

pull1D
Entries 84
Mean −0.0423
Std Dev 0.9505

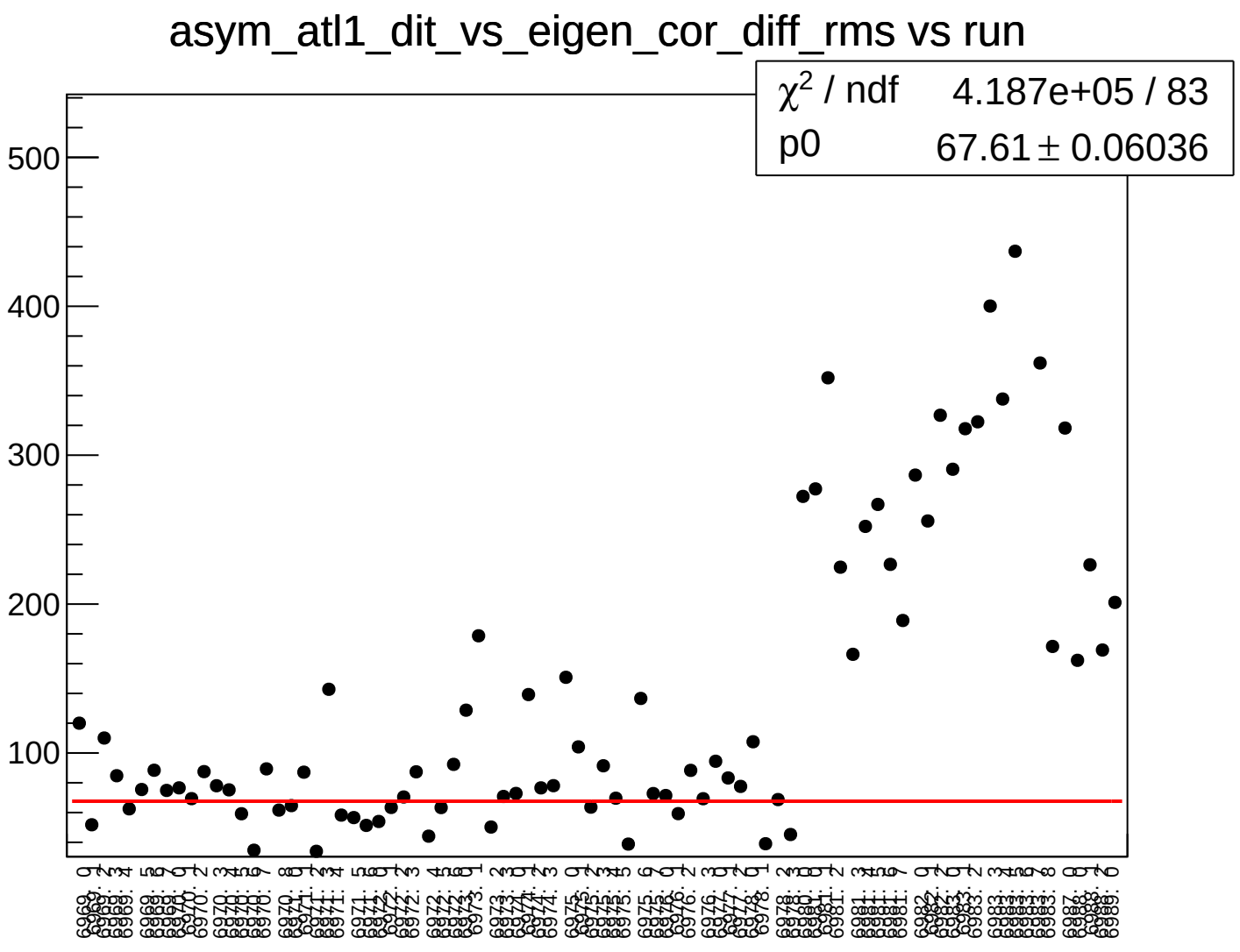

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.042e+06 / 83
p0 3.006e−11 ± 3.783e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

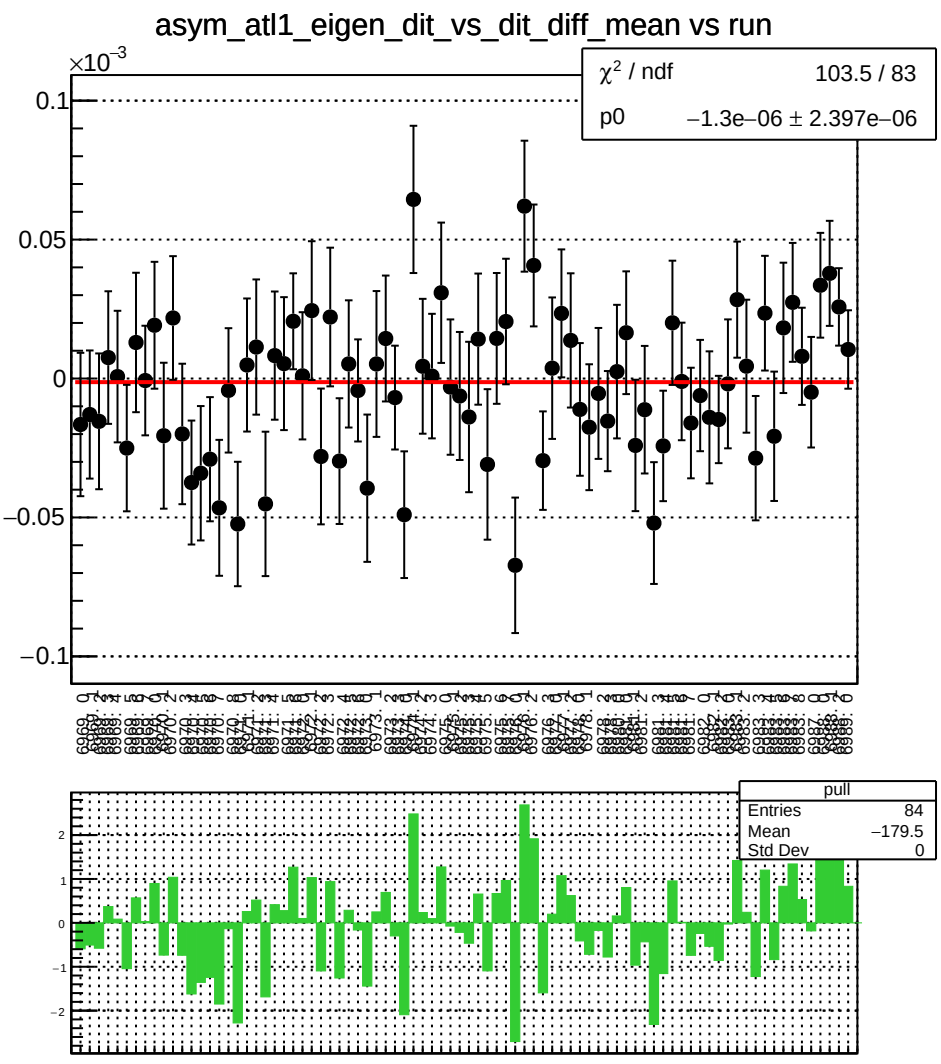

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 79.49 / 83
p0 −0.007356 ± 0.08536
pull
Entries 84
Mean 217.2
Std Dev 0

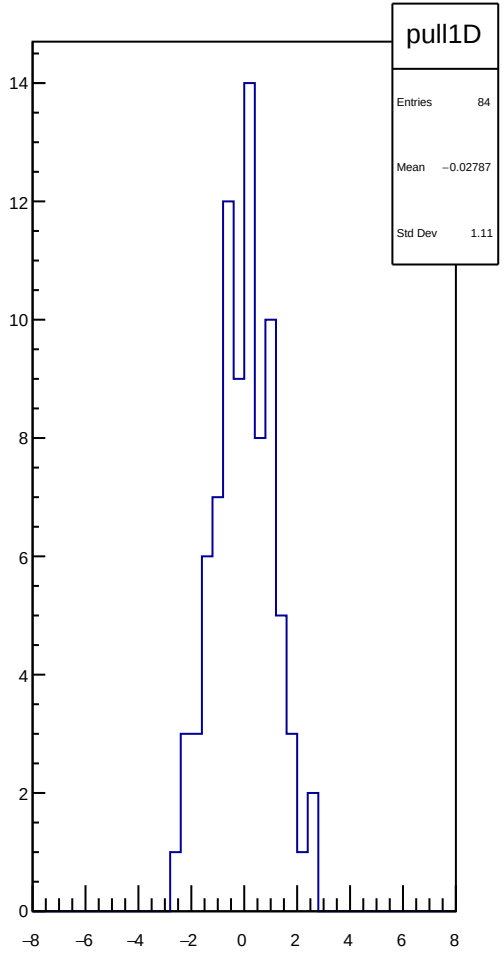

pull1D
Entries 84
Mean 0.005876
Std Dev 0.9728

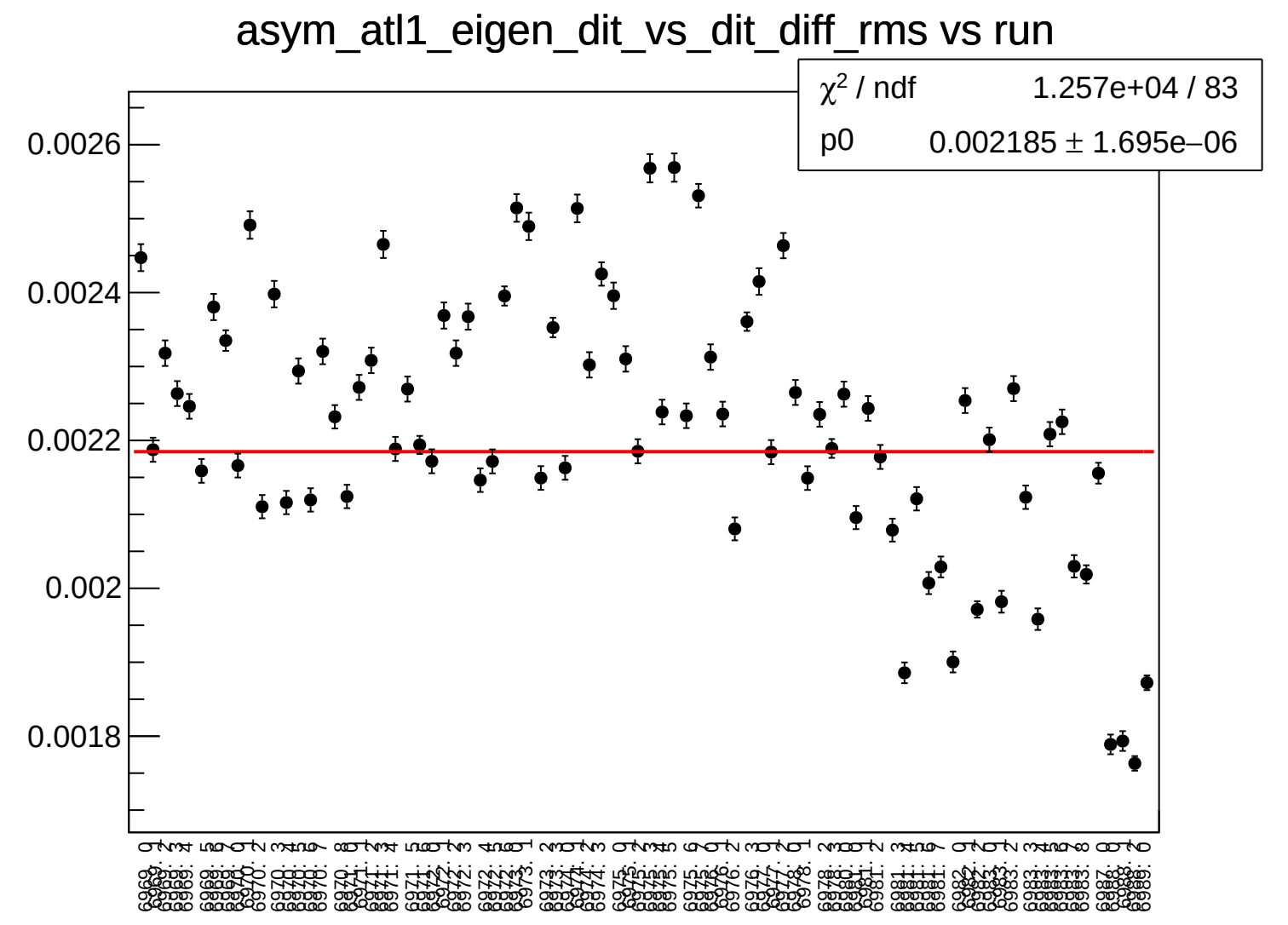

asym_atl1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.187e+05 / 83
p0 67.61 ± 0.06036
500
400
300
200
100

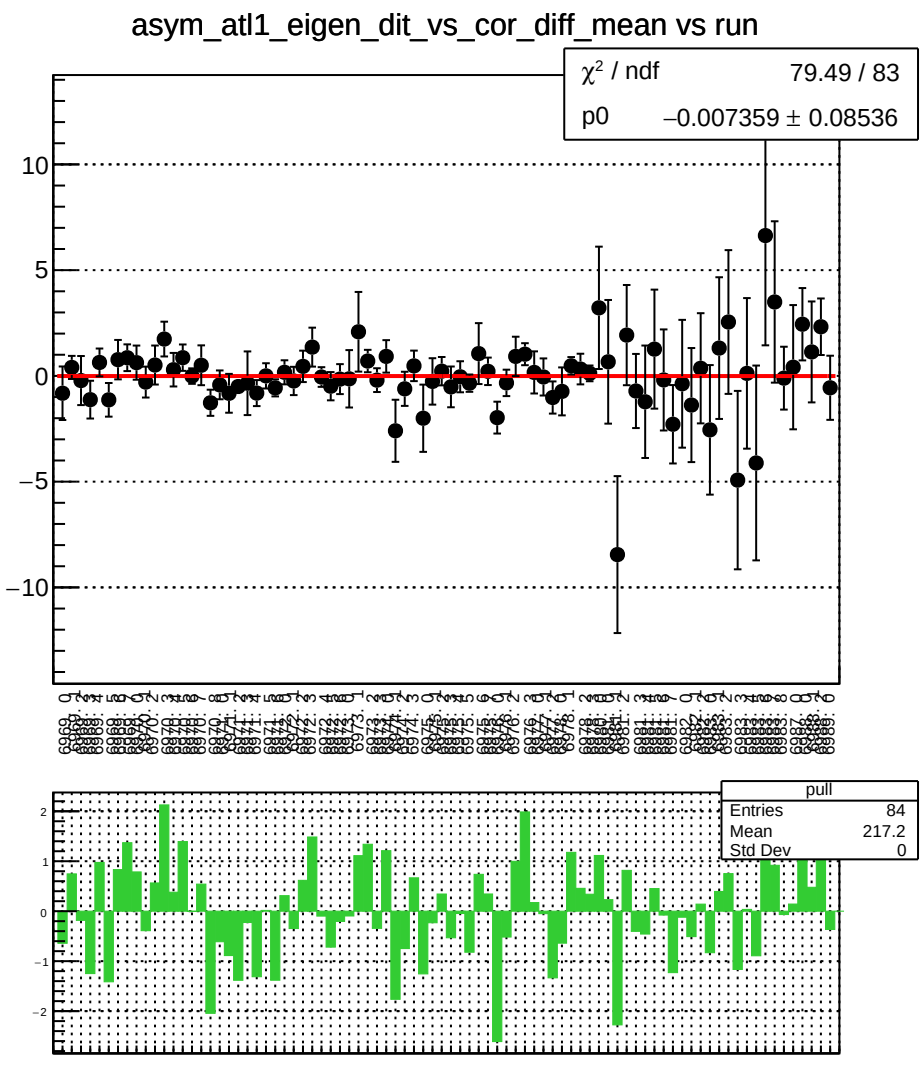

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.49 / 83
p0 −0.007356 ± 0.08536
pull
Entries 84
Mean 217.2
Std Dev 0
pull1D
Entries 84
Mean 0.005876
Std Dev 0.9728

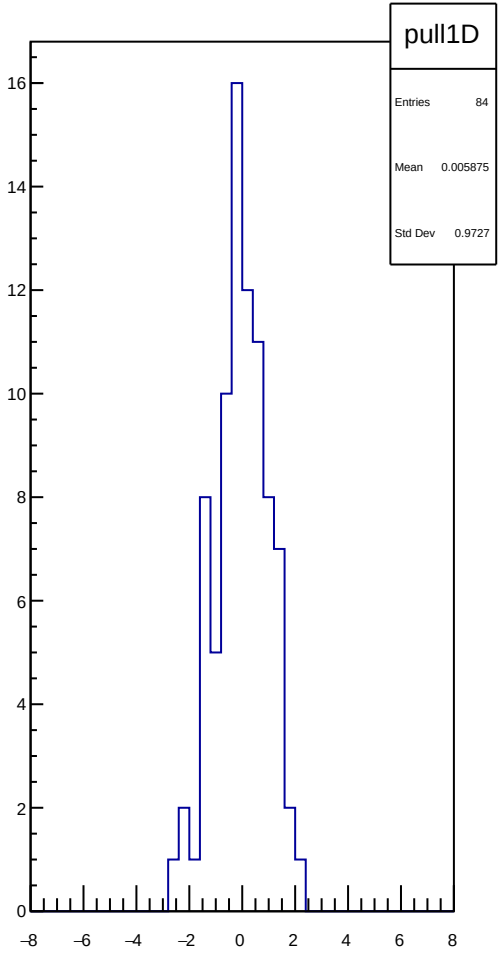

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.187e+05 / 83
p0 67.61 ± 0.06036
500
400
300
200
100

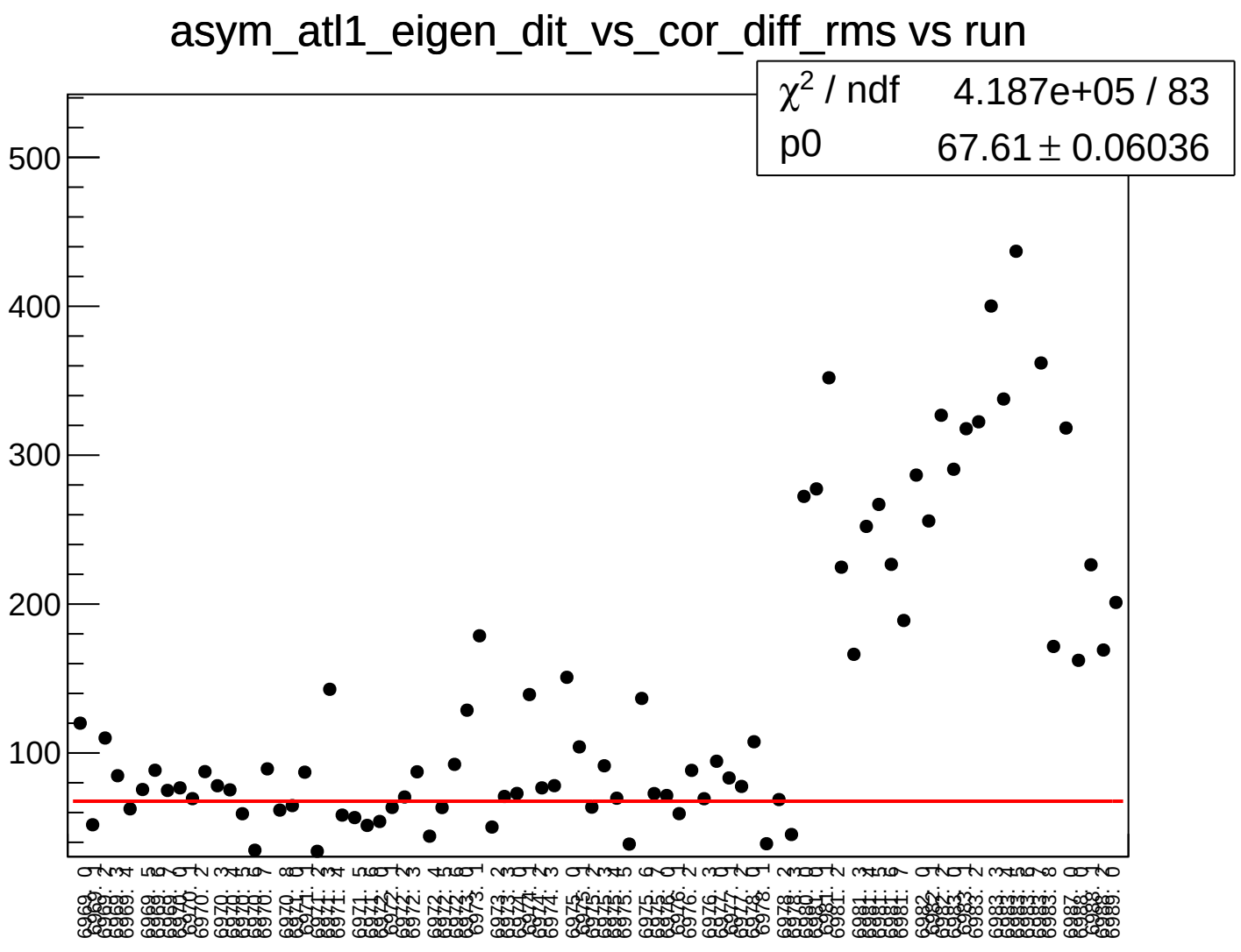

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 103.5 / 83
p0 −1.3e−06 ± 2.397e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean −179.5
Std Dev 0
2
1
0
−1
−2

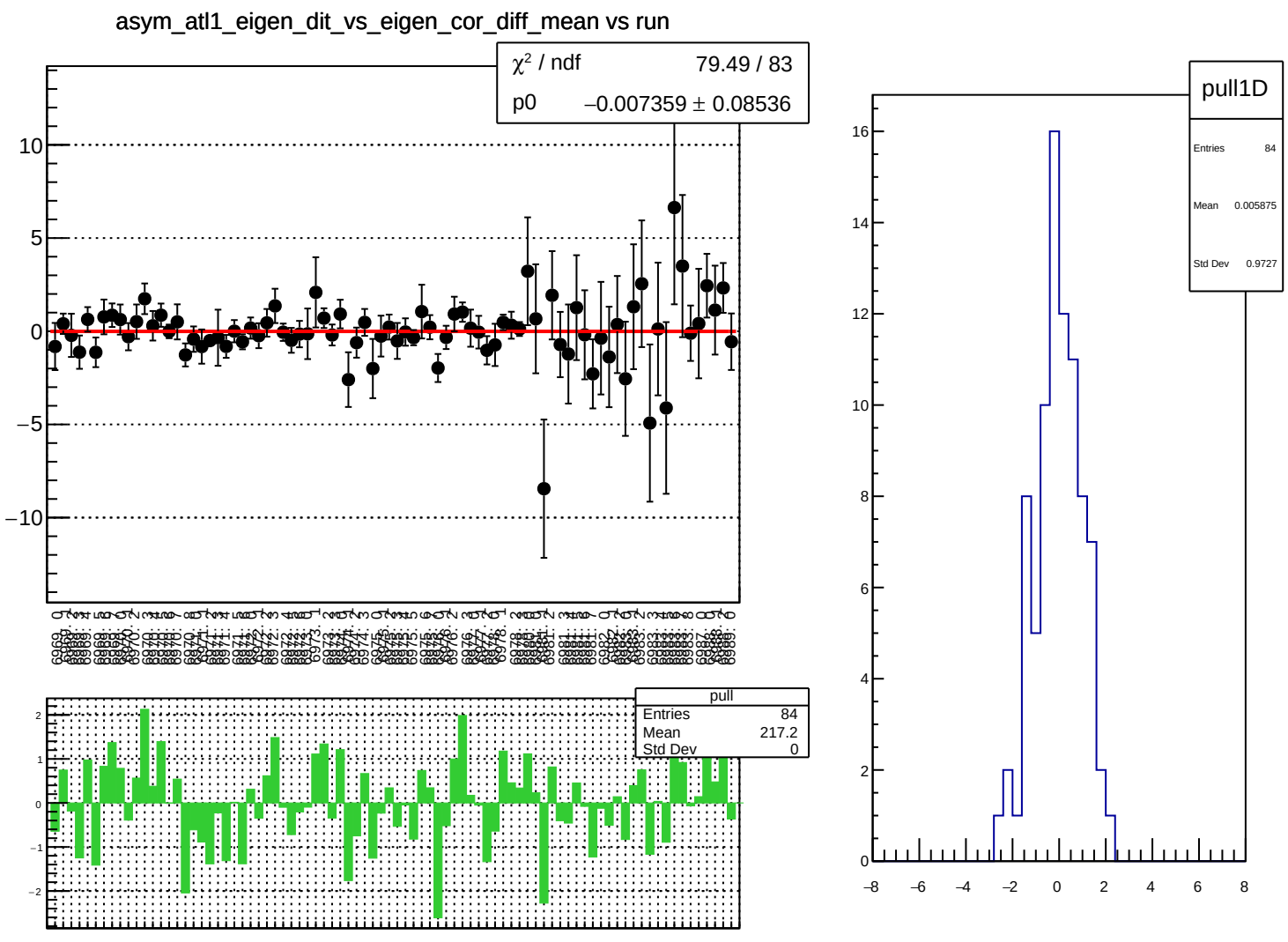

pull1D
Entries 84
Mean −0.02787
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

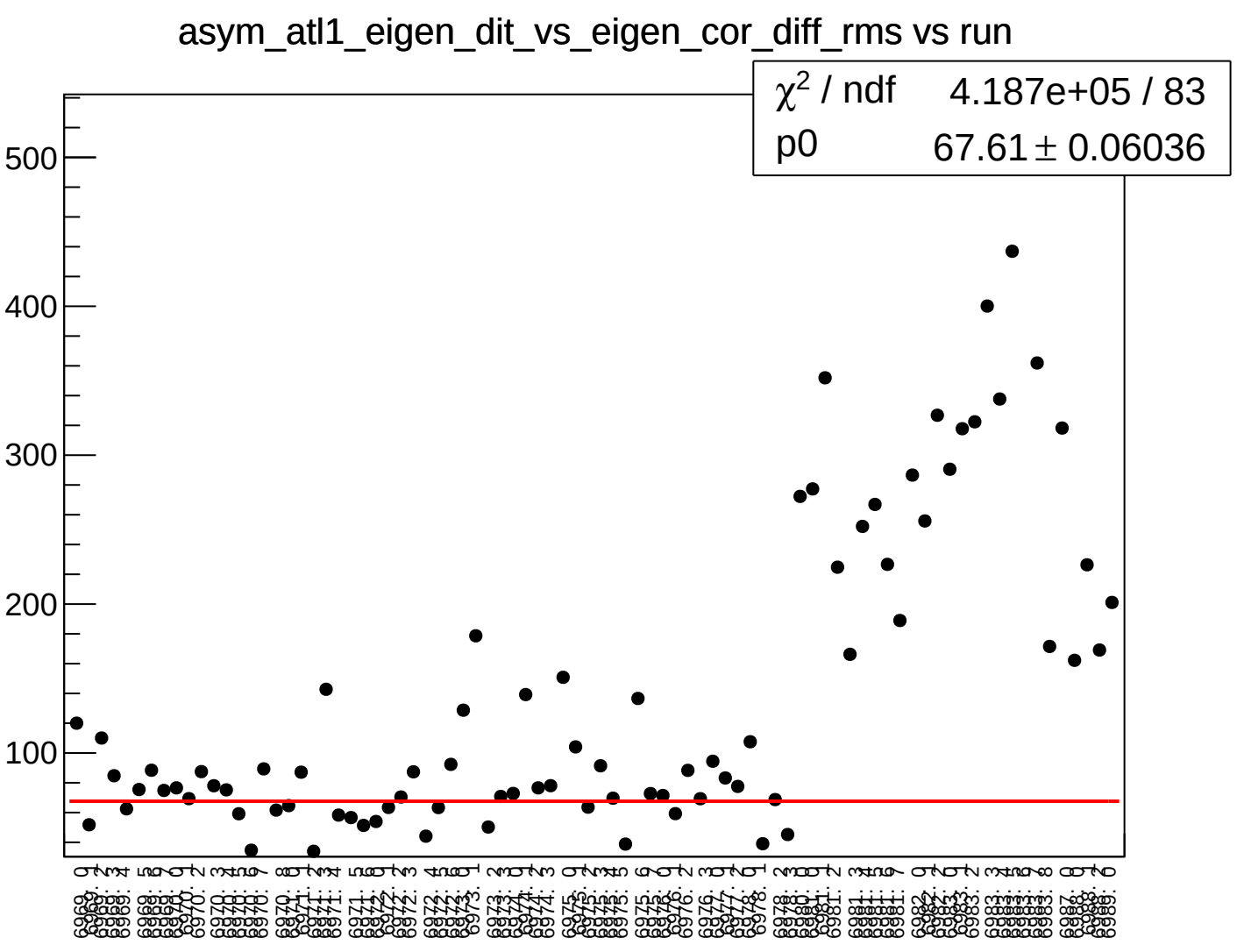

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.257e+04 / 83
p0 0.002185 ± 1.695e−06
0.0026
0.0024
0.0022
0.002
0.0018

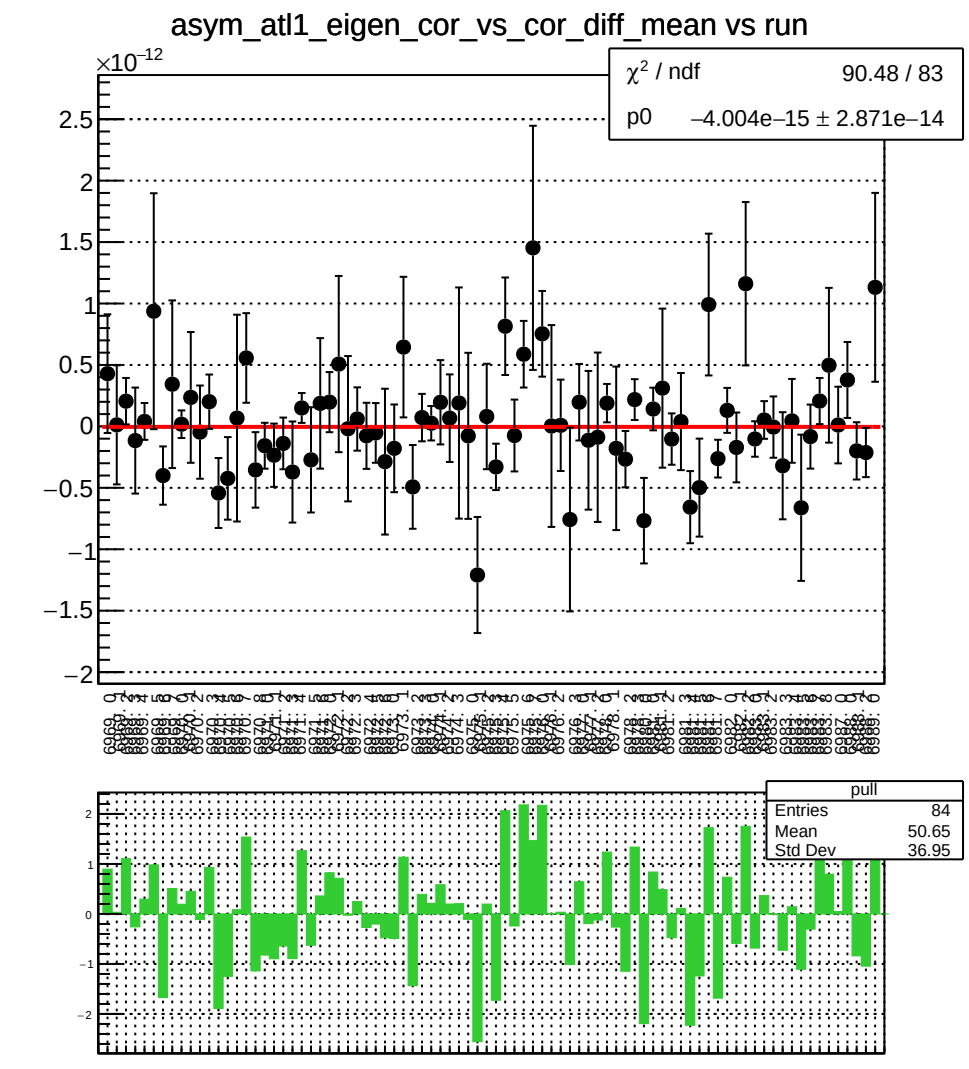

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.49 / 83
p0 −0.007359 ± 0.08536
pull
Entries 84
Mean 217.2
Std Dev 0

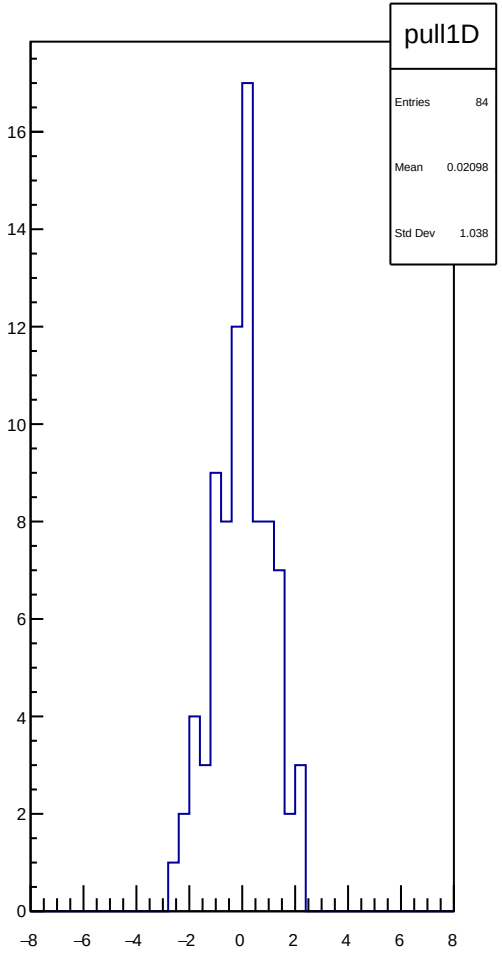

pull1D
Entries 84
Mean 0.005875
Std Dev 0.9727

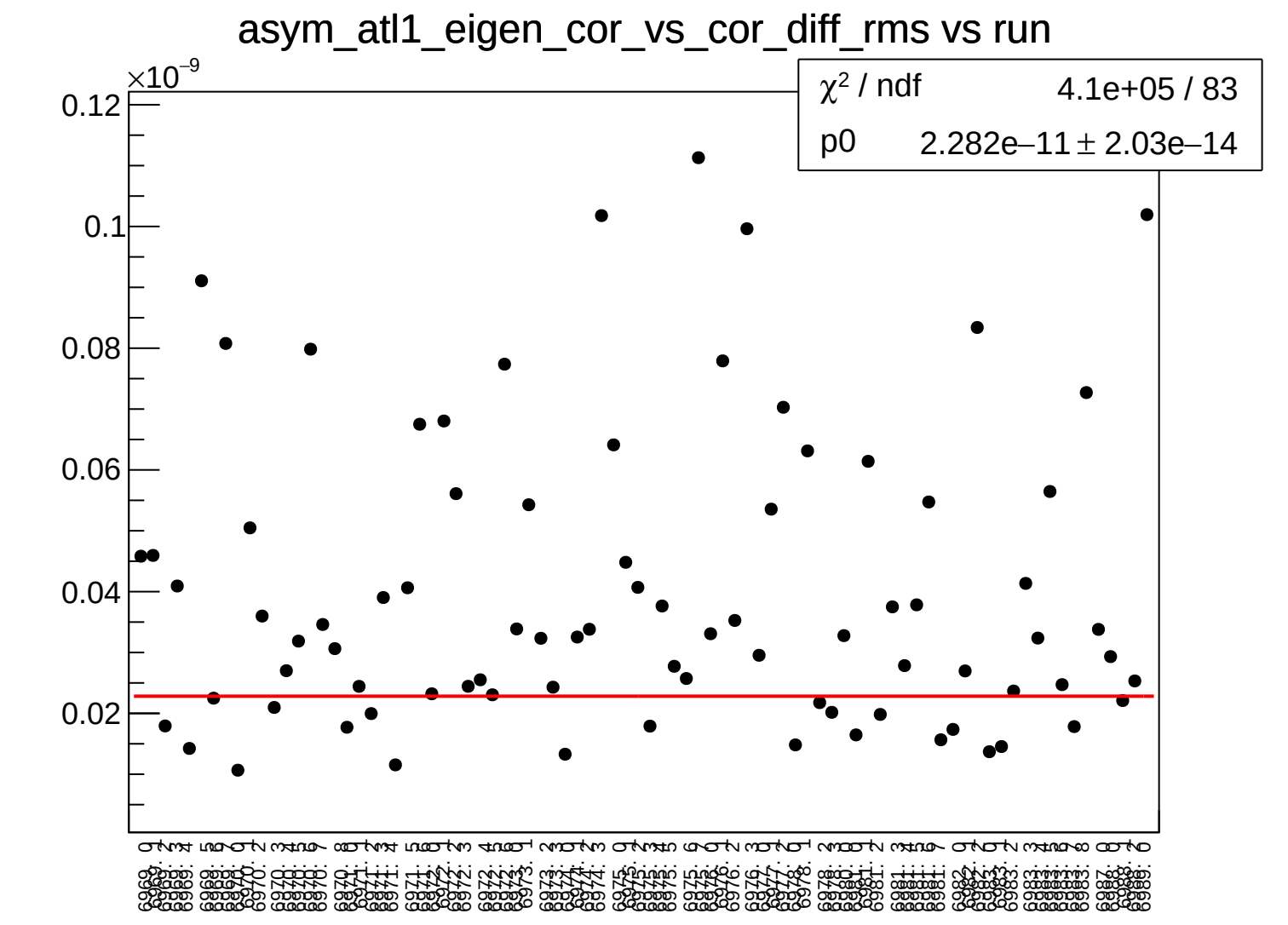

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.187e+05 / 83
p0 67.61 ± 0.06036
500
400
300
200
100

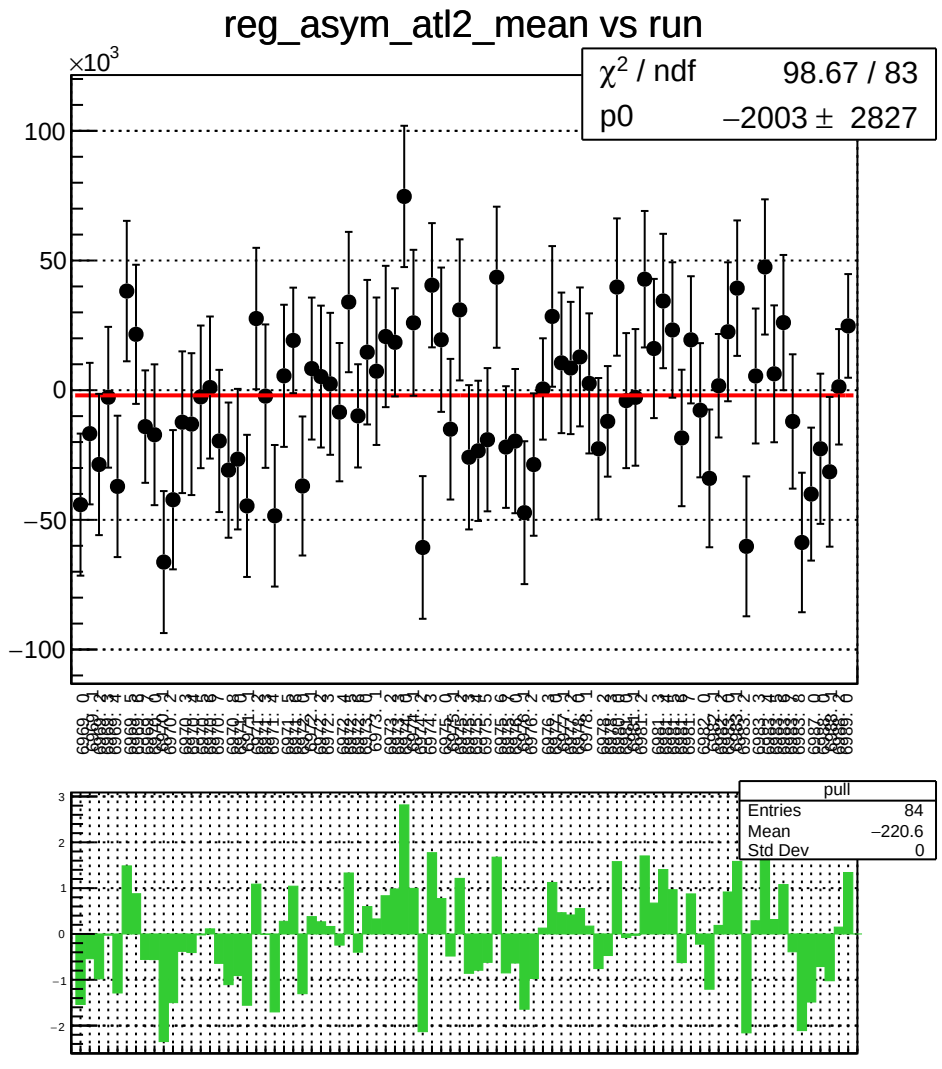

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.49 / 83
p0 −0.007359 ± 0.08536
pull
Entries 84
Mean 217.2
Std Dev 0
pull1D
Entries 84
Mean 0.005875
Std Dev 0.9727

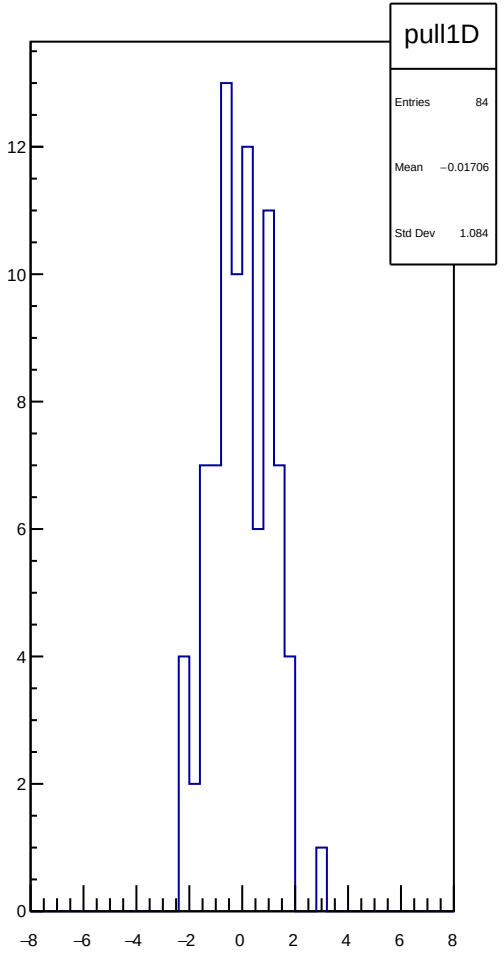

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.187e+05 / 83
p0 67.61 ± 0.06036
500
400
300
200
100

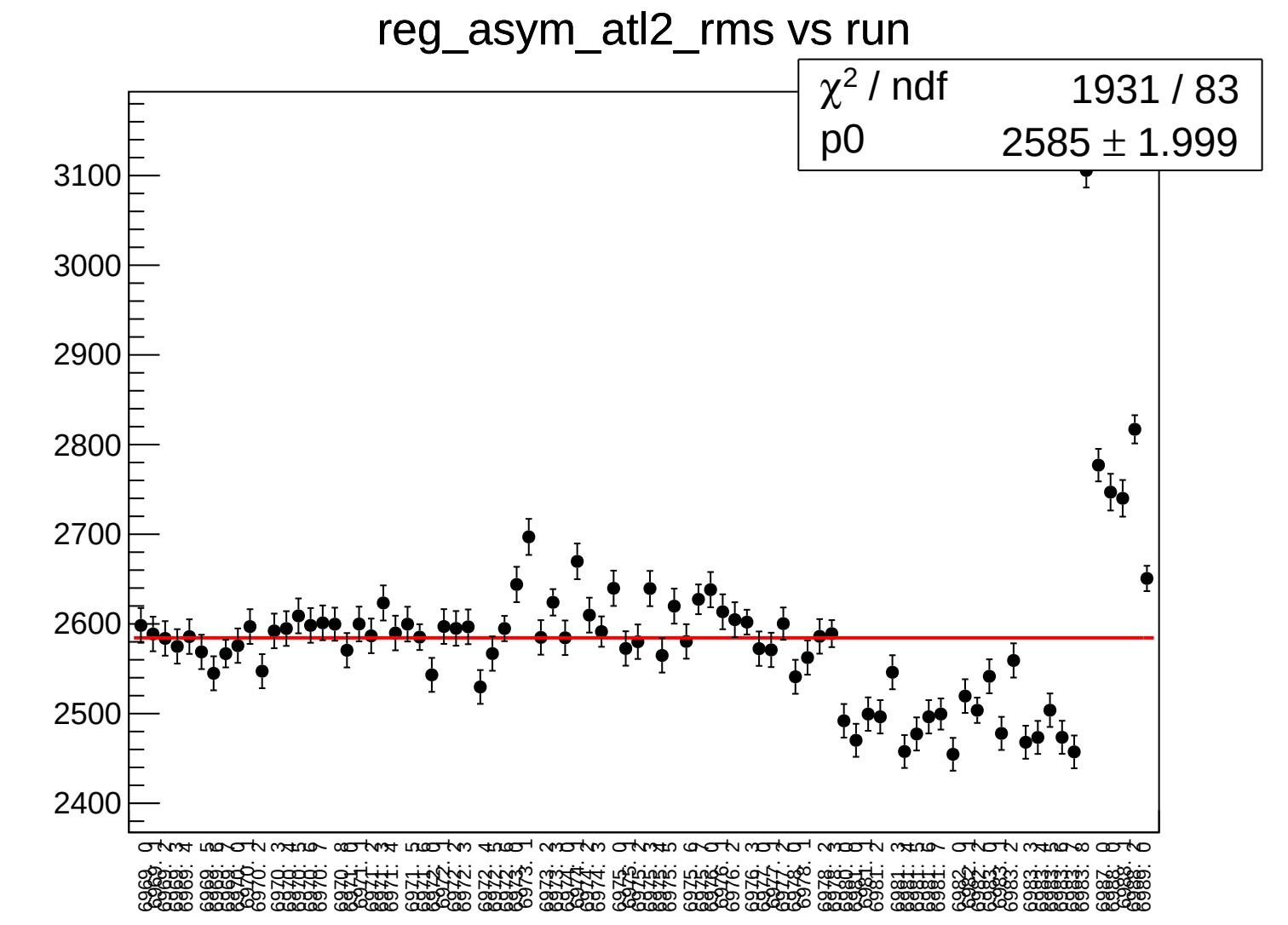

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.48 / 83
p0 −4.004e−15 ± 2.871e−14
pull
Entries 84
Mean 50.65
Std Dev 36.95

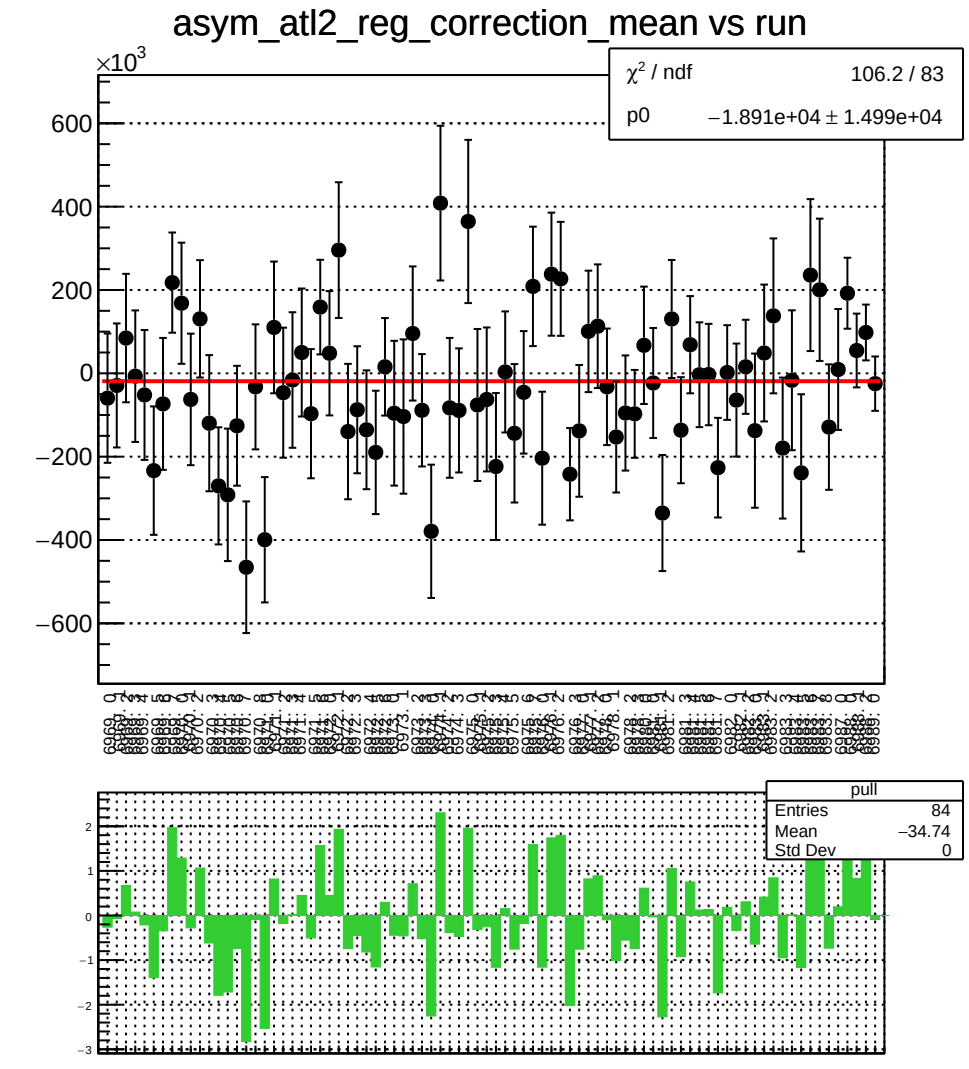

pull1D
Entries 84
Mean 0.02098
Std Dev 1.038

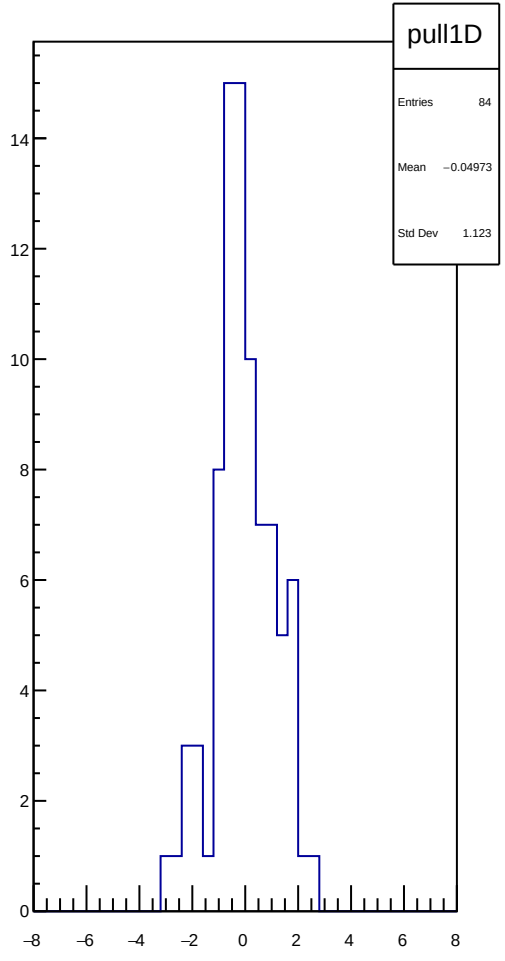

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 4.1e+05 / 83
p0 2.282e−11 ± 2.03e−14

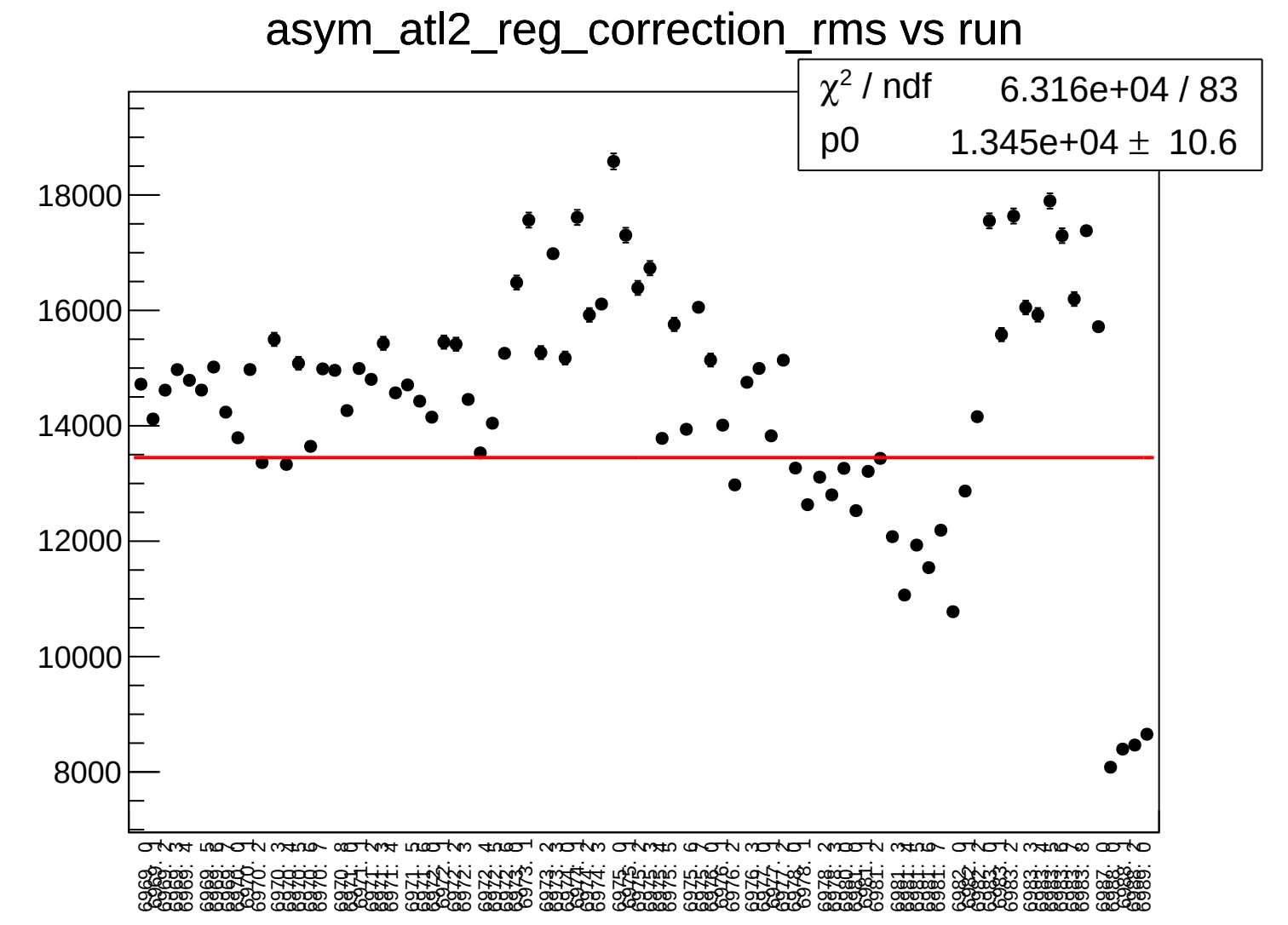

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 98.67 / 83
p0 −2003 ± 2827
100
50
0
−50
−100
pull
Entries 84
Mean −220.6
Std Dev 0
3
2
1
0
−1
−2

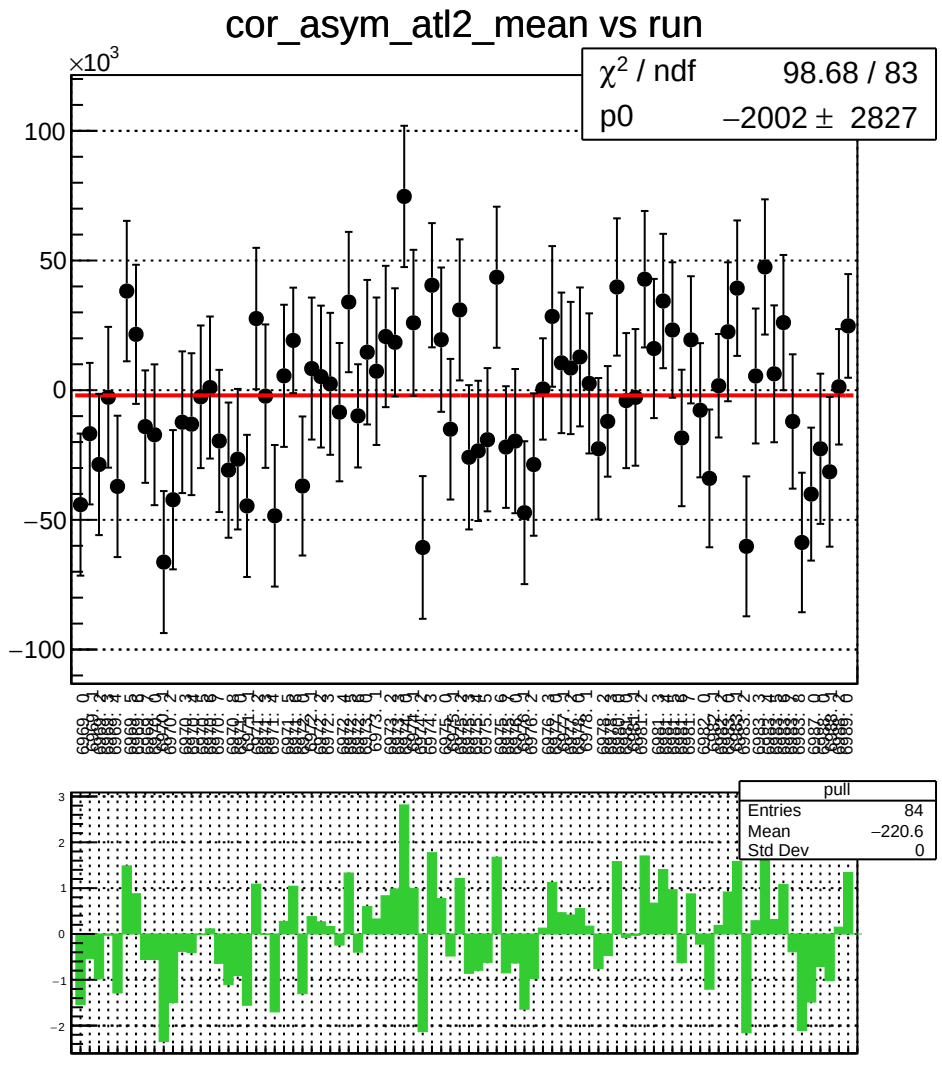

pull1D
Entries 84
Mean −0.01706
Std Dev 1.084
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

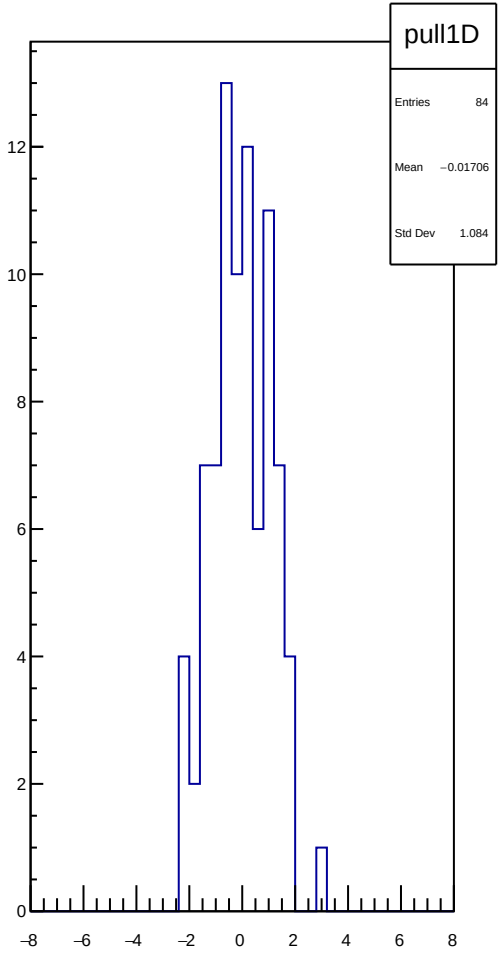

reg_asym_atl2_rms vs run
χ^2 / ndf 1931 / 83
p0 2585 ± 1.999
3100
3000
2900
2800
2700
2600
2500
2400

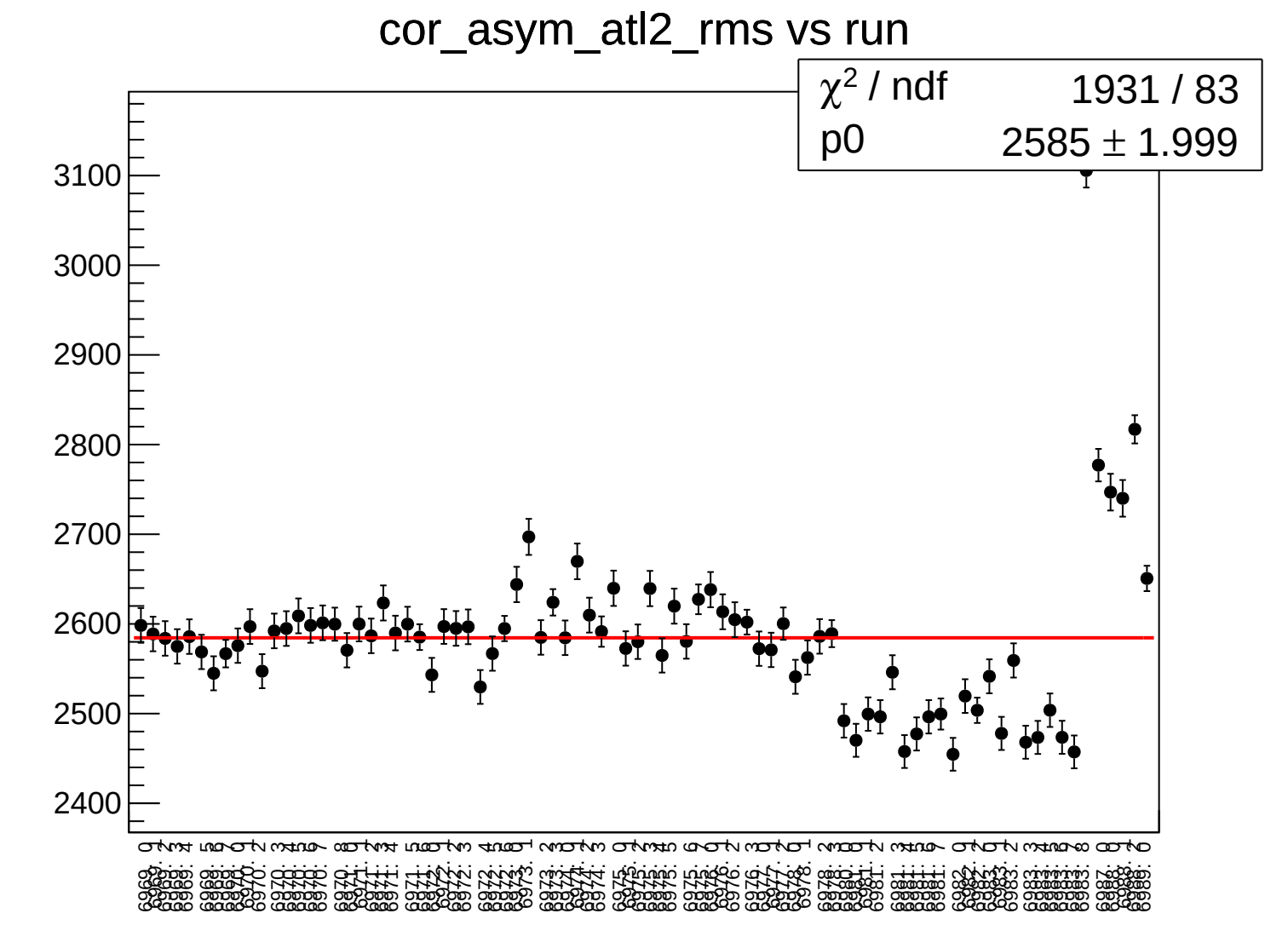

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 106.2 / 83
p0 −1.891e+04 ± 1.499e+04
pull
Entries 84
Mean −34.74
Std Dev 0

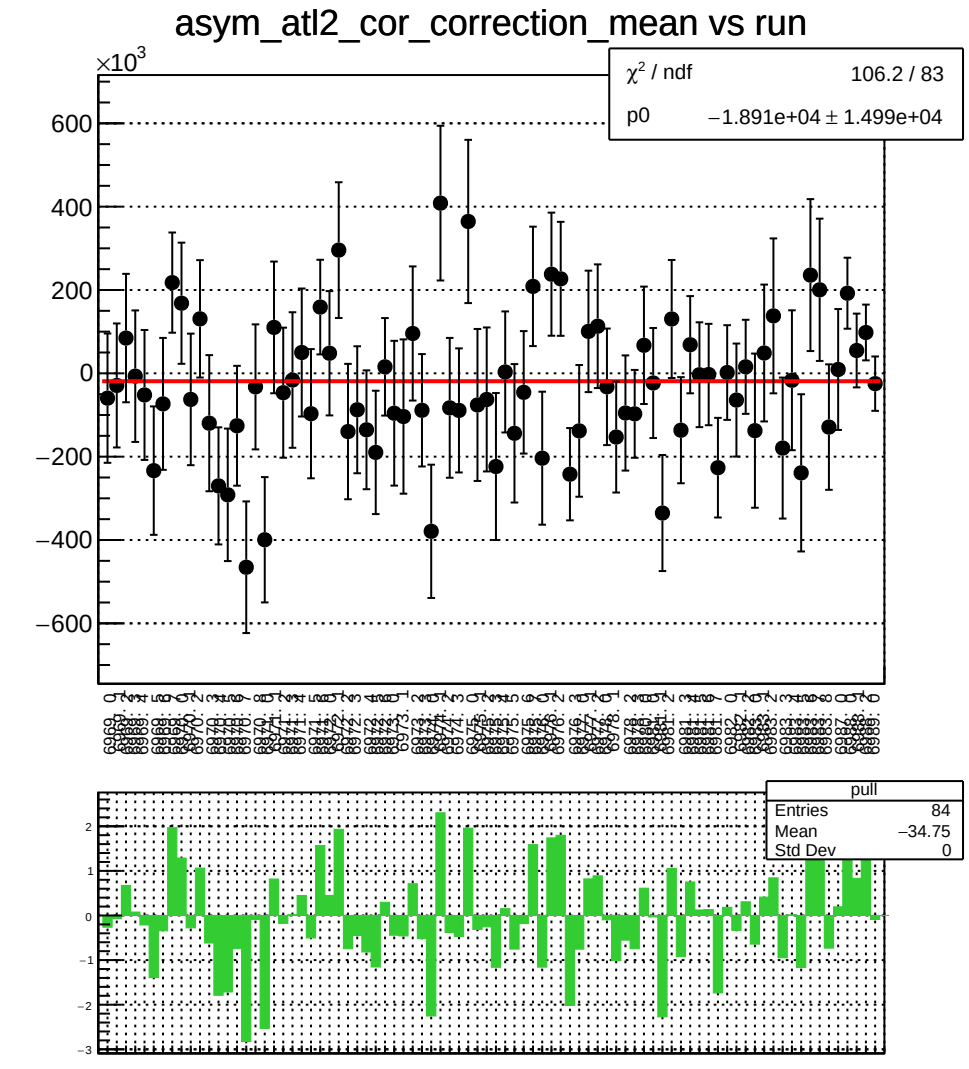

pull1D
Entries 84
Mean −0.04973
Std Dev 1.123

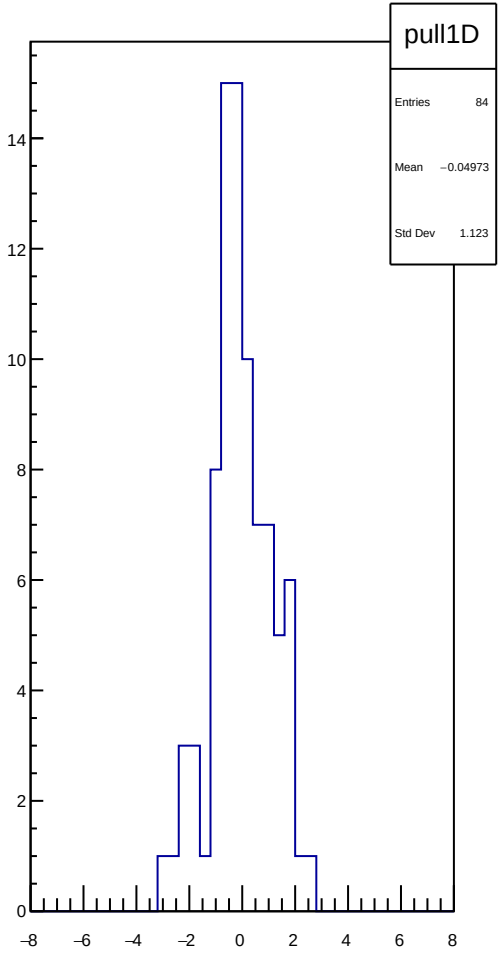

asym_atl2_reg_correction_rms vs run
χ² / ndf 6.316e+04 / 83
p0 1.345e+04 ± 10.6
18000
16000
14000
12000
10000
8000

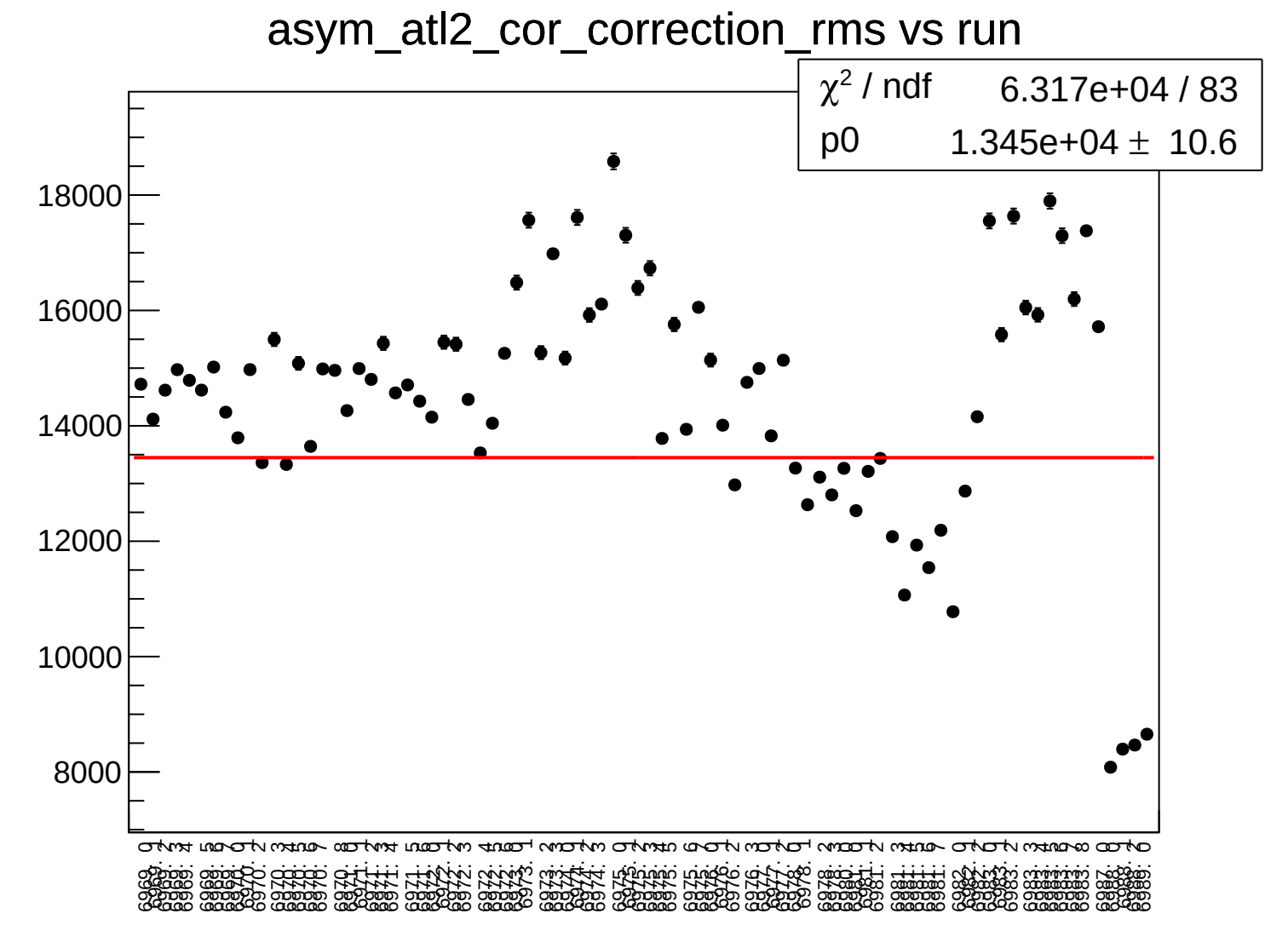

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 98.68 / 83
p0 −2002 ± 2827
100
50
0
−50
−100
pull
Entries 84
Mean −220.6
Std Dev 0
3
2
1
0
−1
−2

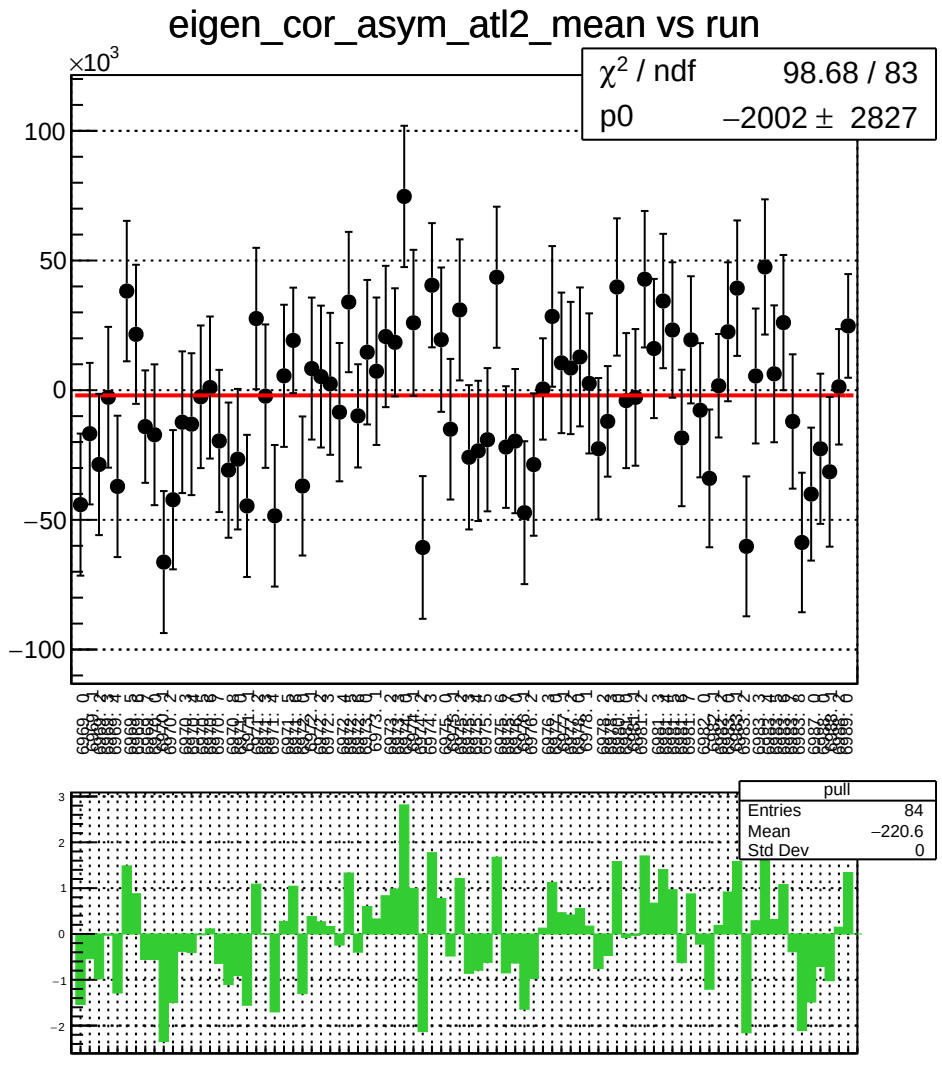

pull1D
Entries 84
Mean −0.01706
Std Dev 1.084
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

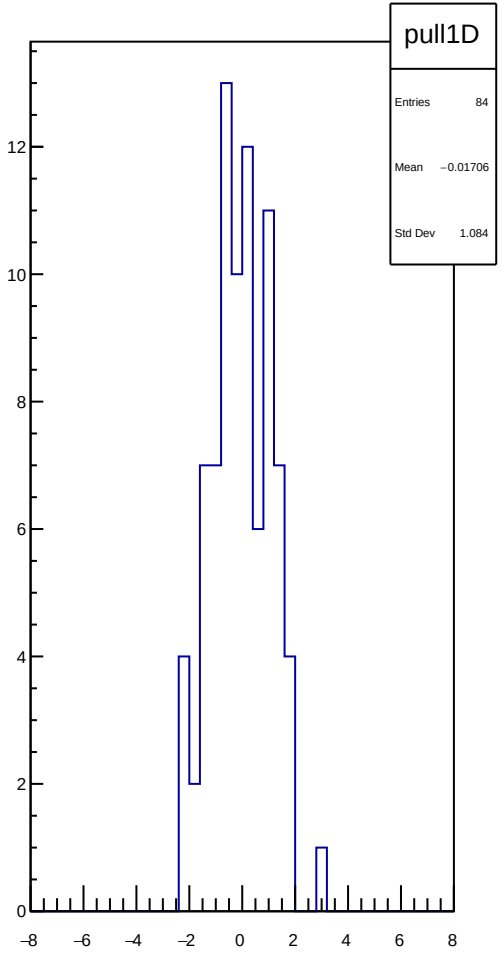

cor_asym_atl2_rms vs run
χ² / ndf 1931 / 83
p0 2585 ± 1.999
3100
3000
2900
2800
2700
2600
2500
2400

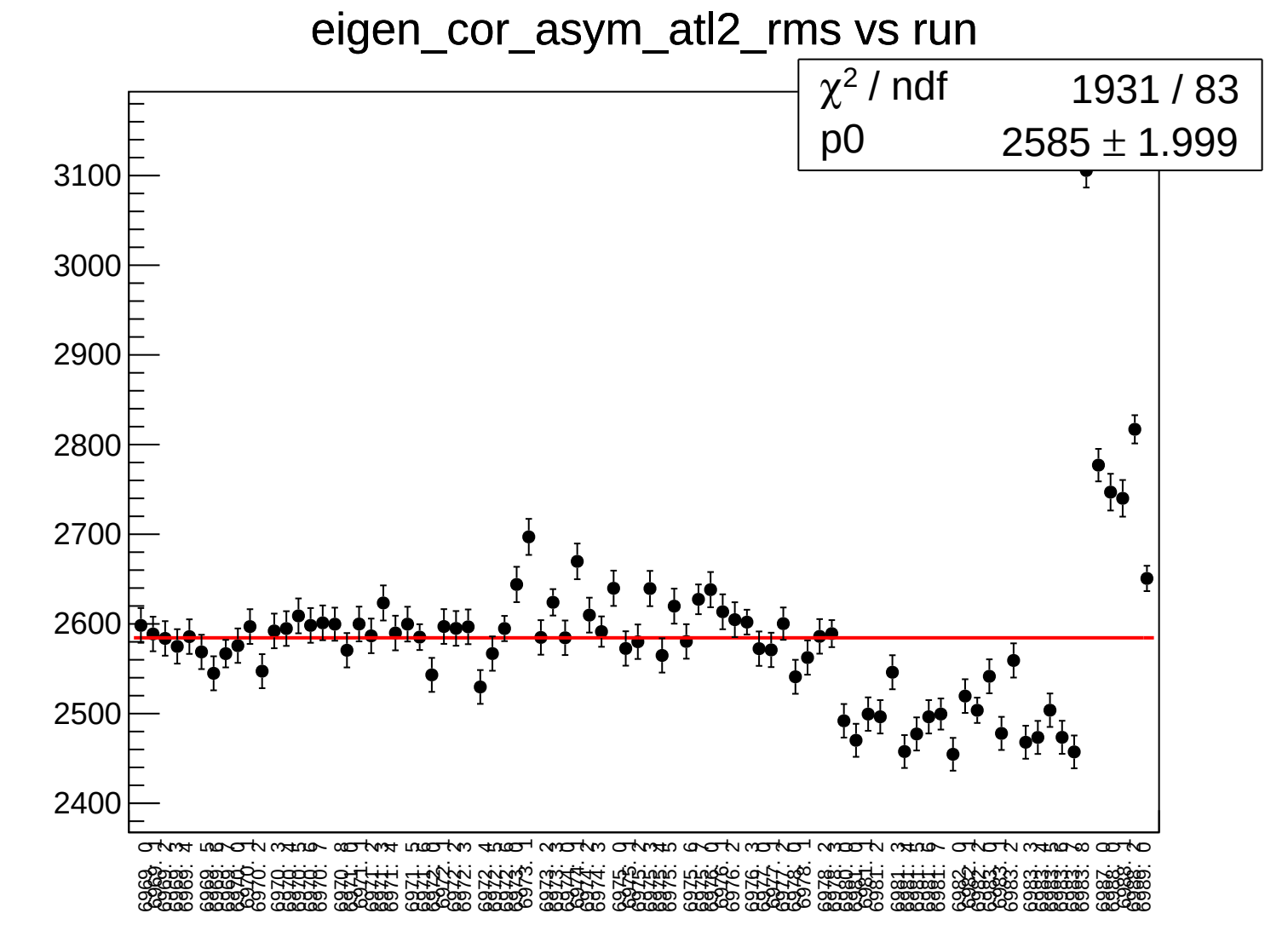

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 106.2 / 83
p0 −1.891e+04 ± 1.499e+04
pull
Entries 84
Mean −34.75
Std Dev 0

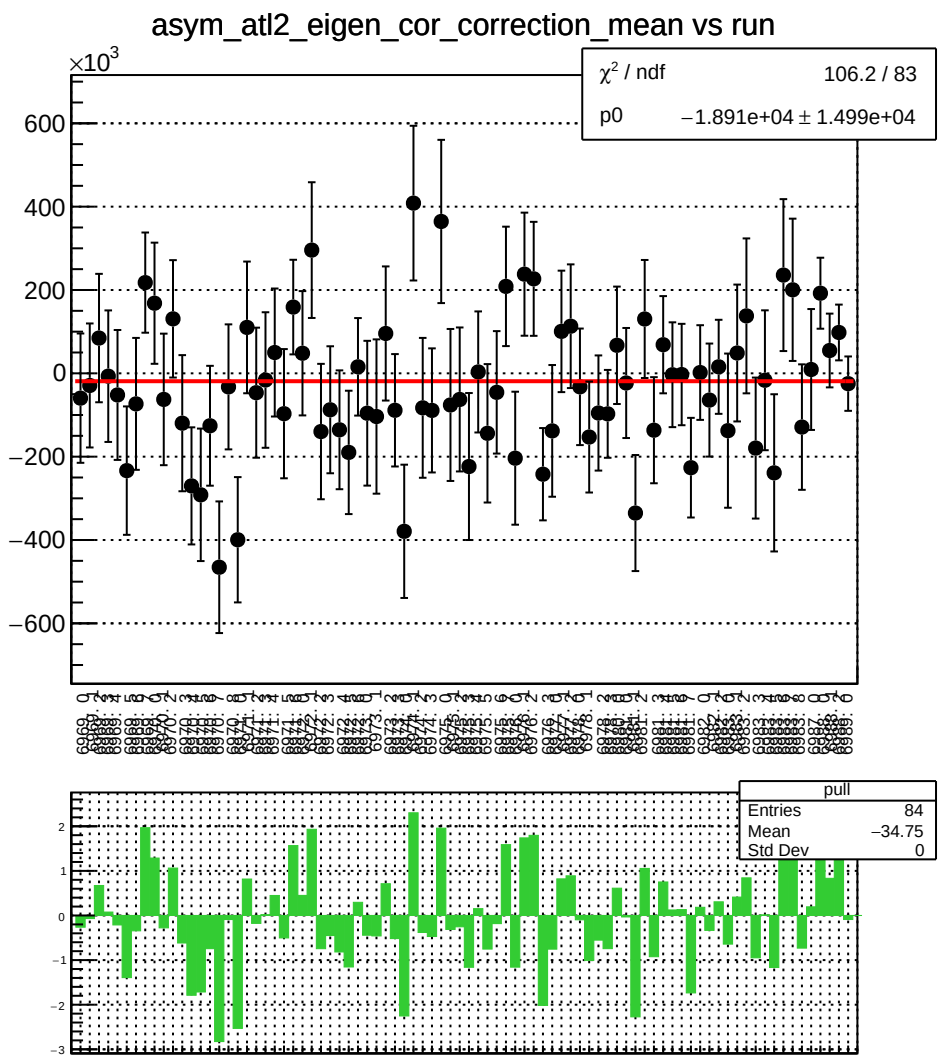

pull1D
Entries 84
Mean −0.04973
Std Dev 1.123

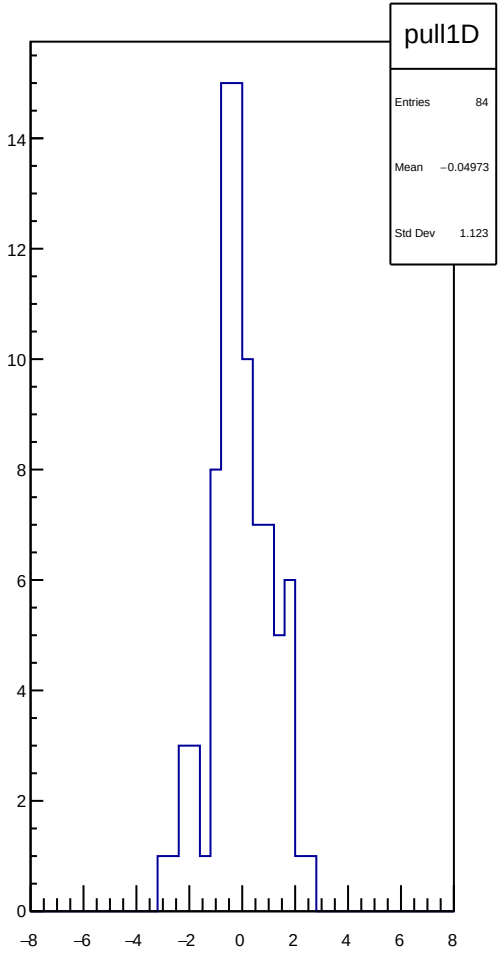

asym_atl2_cor_correction_rms vs run
χ² / ndf 6.317e+04 / 83
p0 1.345e+04 ± 10.6
18000
16000
14000
12000
10000
8000

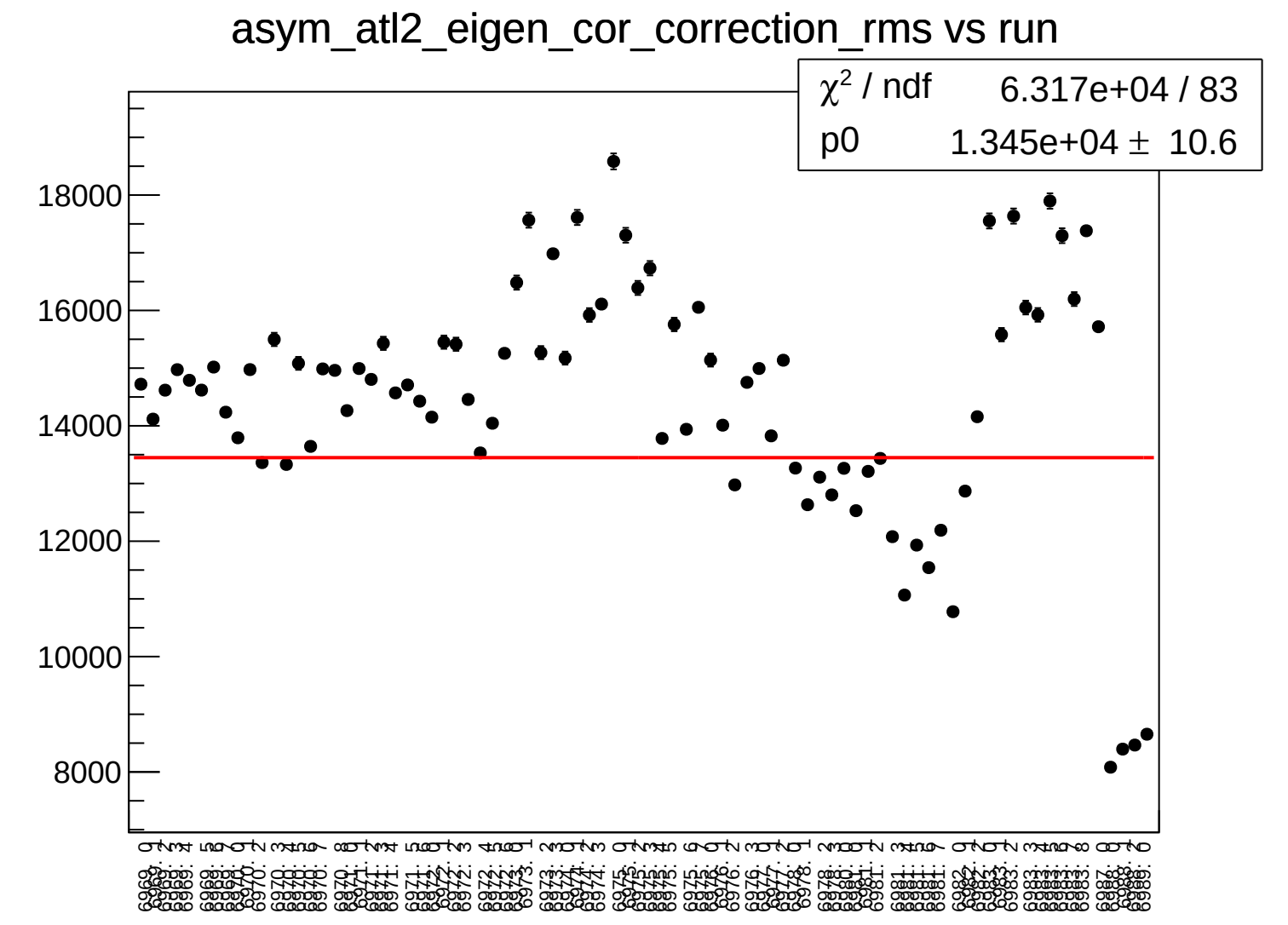

eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 98.68 / 83
p0 −2002 ± 2827
100
50
0
−50
−100
pull
Entries 84
Mean −220.6
Std Dev 0
3
2
1
0
−1
−2

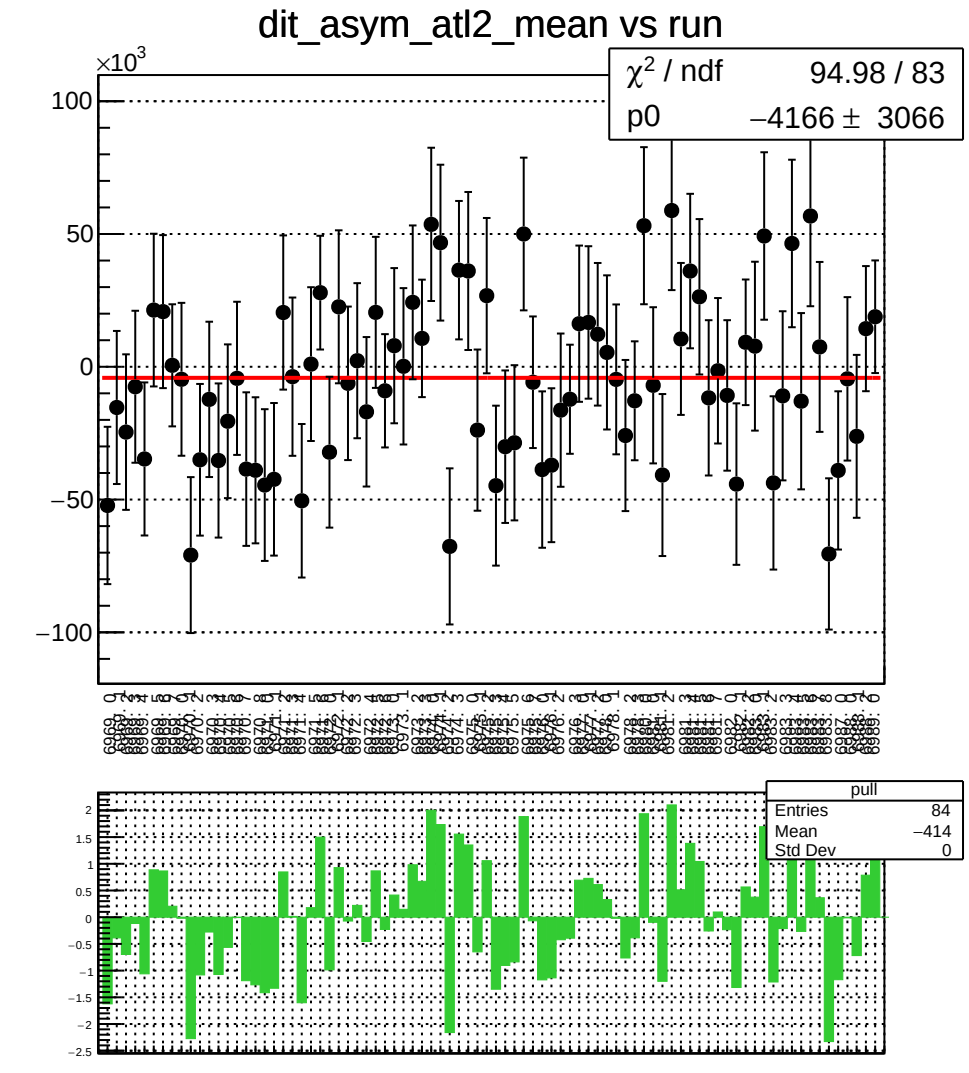

pull1D
Entries 84
Mean −0.01706
Std Dev 1.084
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

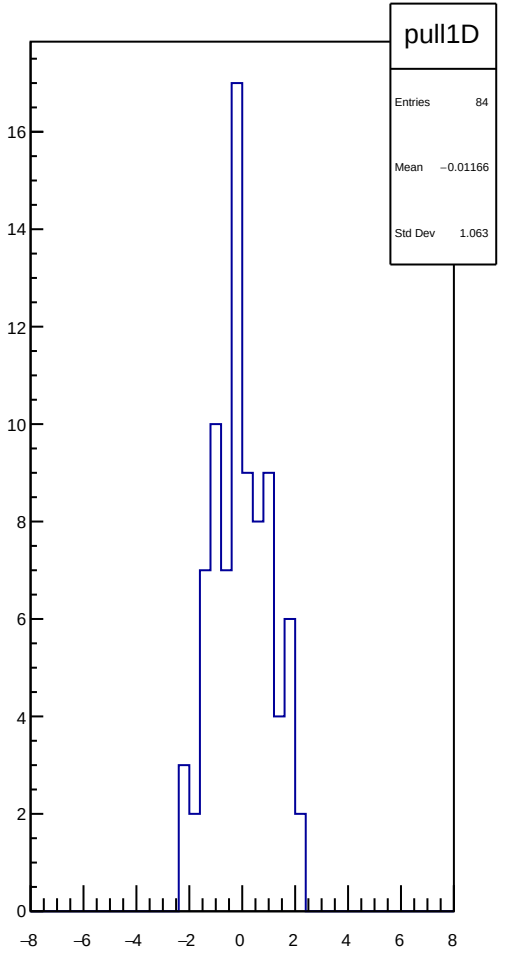

eigen_cor_asym_atl2_rms vs run
χ² / ndf 1931 / 83
p0 2585 ± 1.999
3100
3000
2900
2800
2700
2600
2500
2400

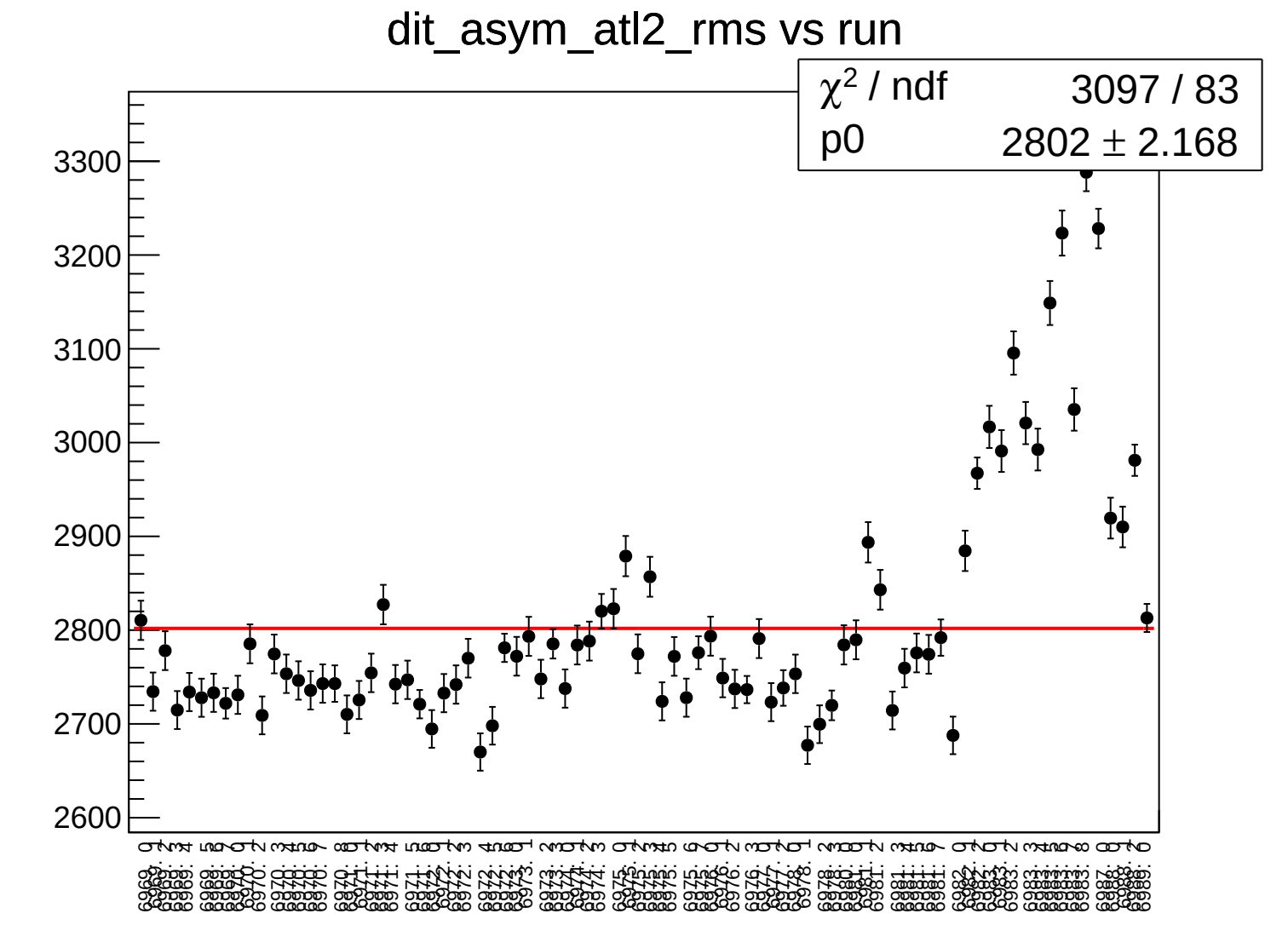

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.2 / 83
p0 −1.891e+04 ± 1.499e+04
pull
Entries 84
Mean −34.75
Std Dev 0

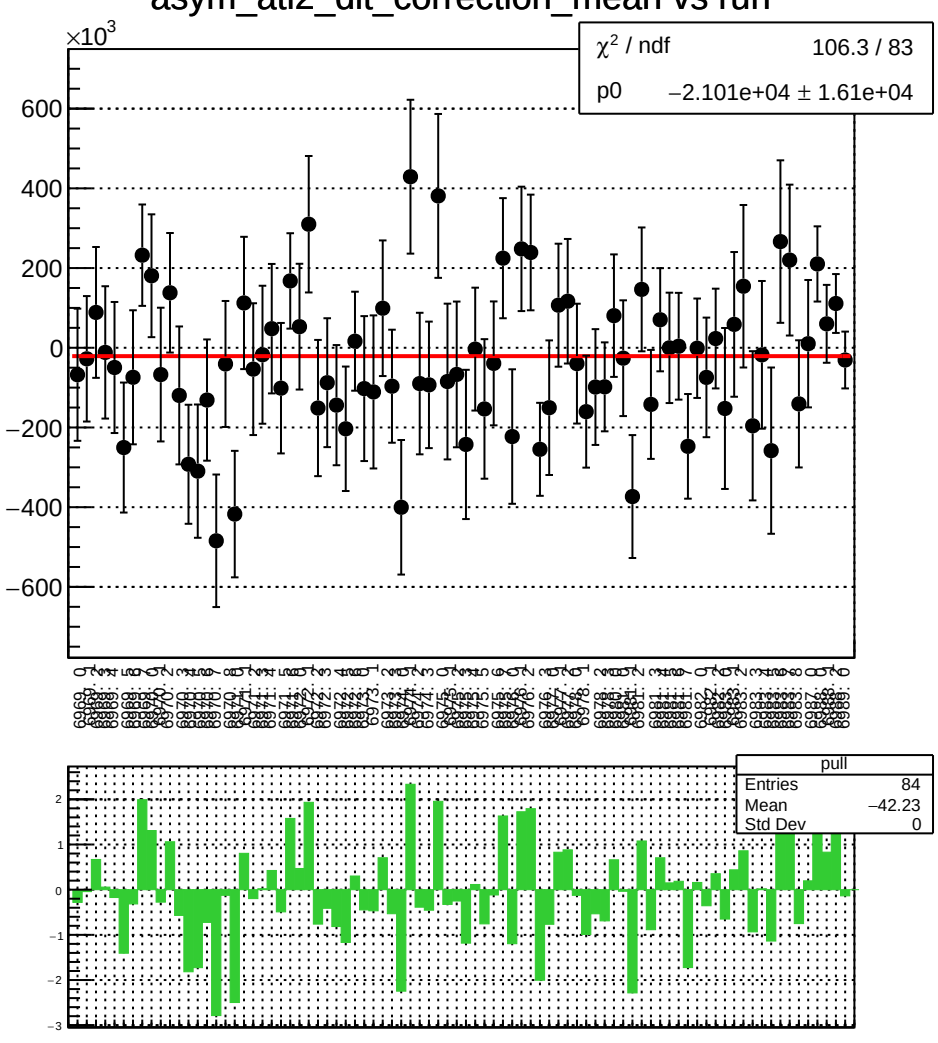

pull1D
Entries 84
Mean −0.04973
Std Dev 1.123

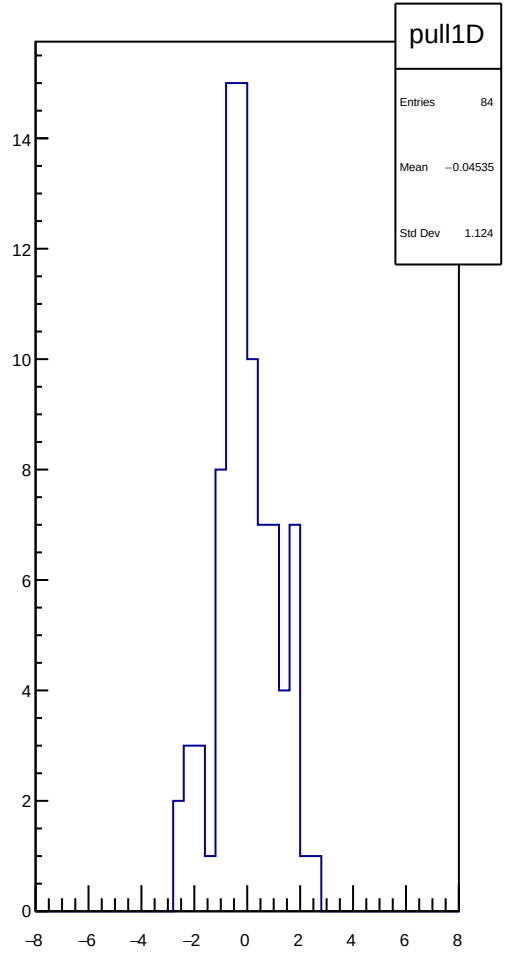

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 6.317e+04 / 83
p0 1.345e+04 ± 10.6
18000
16000
14000
12000
10000
8000

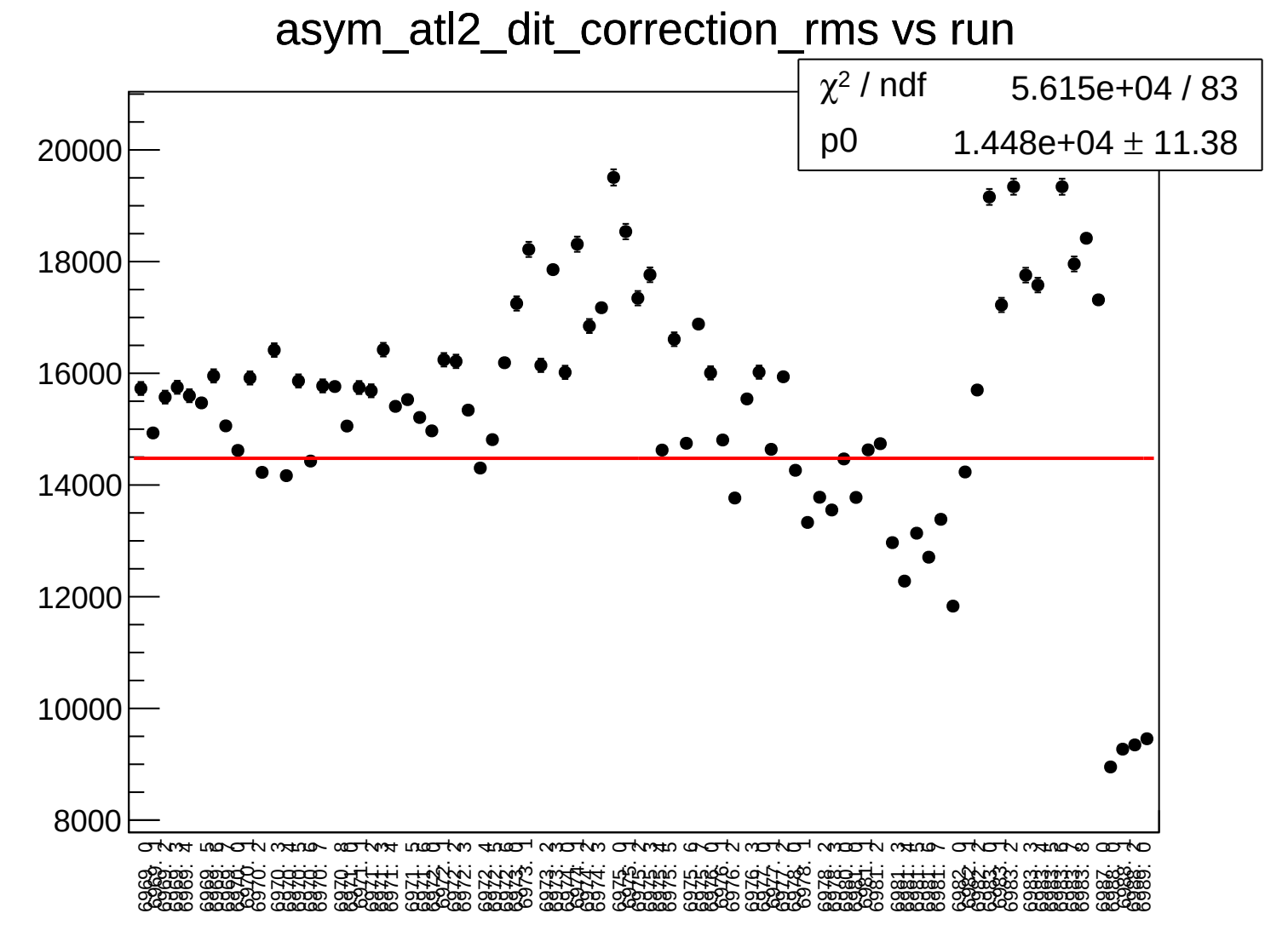

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 94.98 / 83
p0 −4166 ± 3066
100
50
0
−50
−100
pull
Entries 84
Mean −414
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

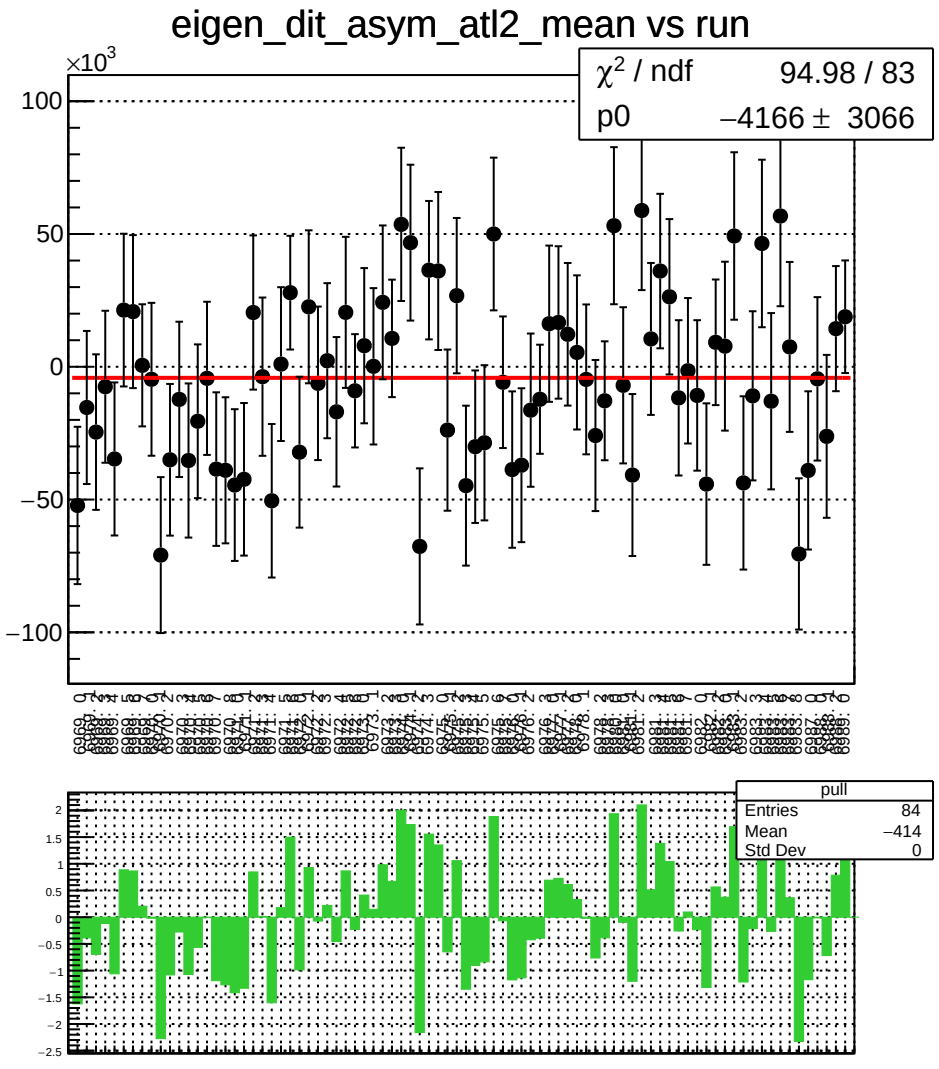

pull1D
Entries 84
Mean −0.01166
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

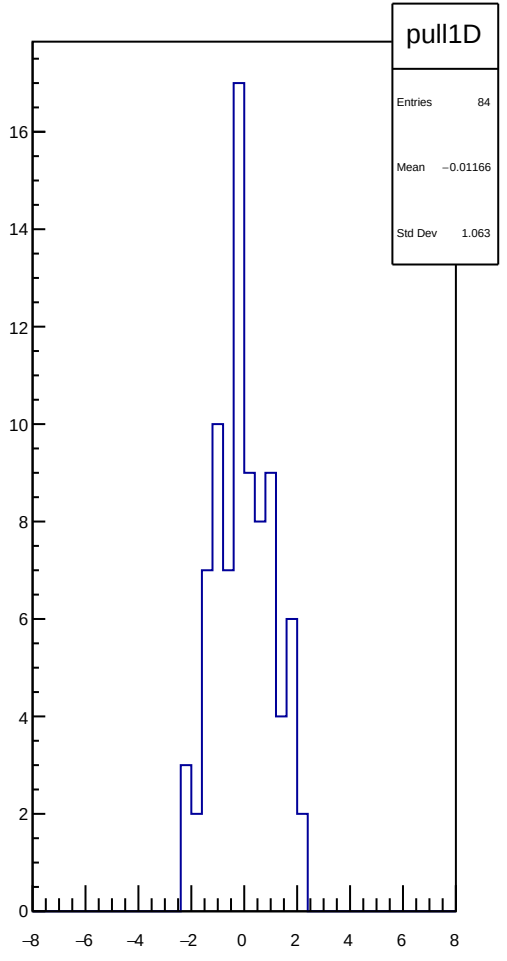

dit_asym_atl2_rms vs run
χ² / ndf 3097 / 83
p0 2802 ± 2.168
3300
3200
3100
3000
2900
2800
2700
2600

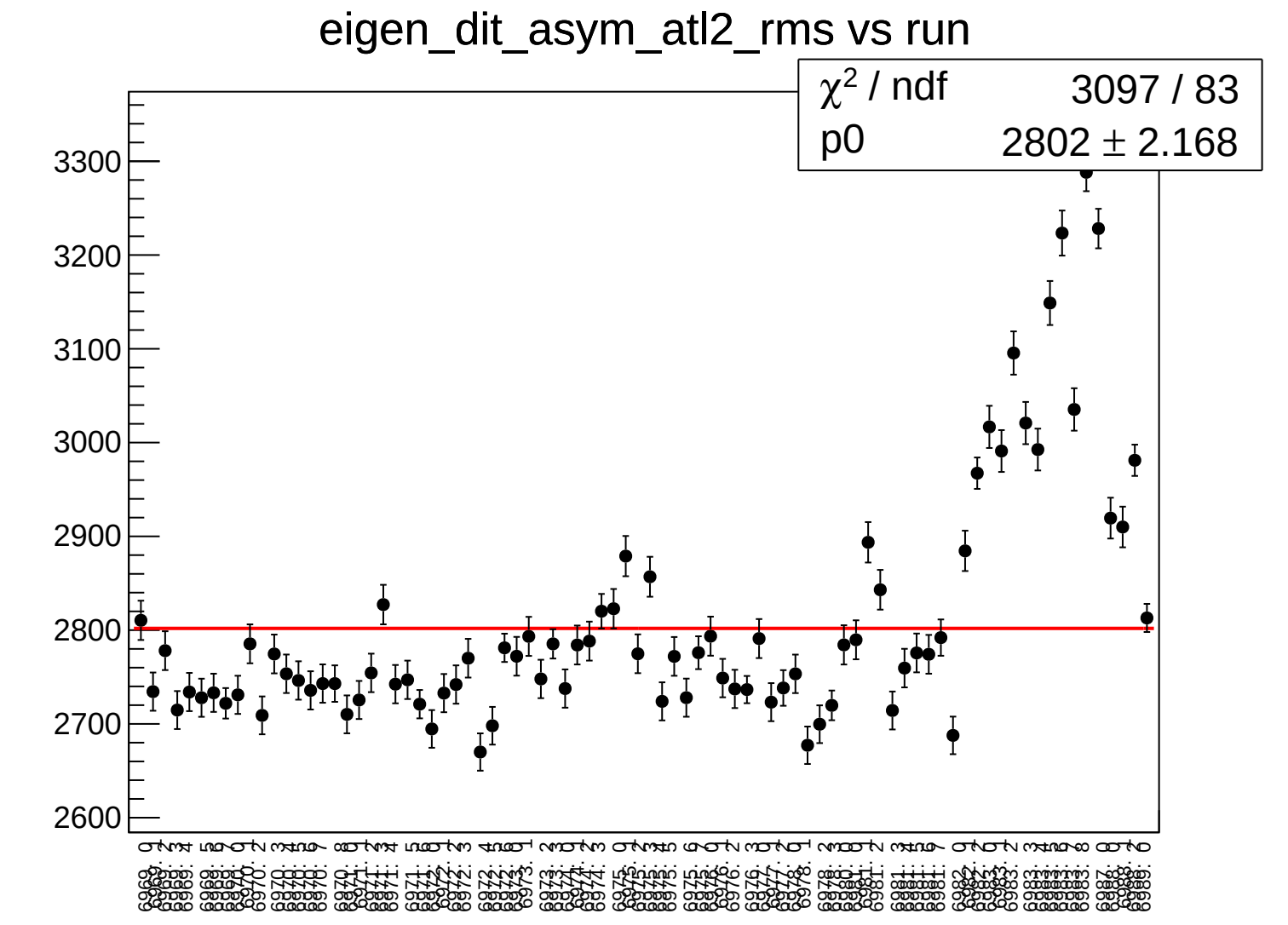

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 106.3 / 83
p0 −2.101e+04 ± 1.61e+04
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean −42.23
Std Dev 0
2
1
0
−1
−2
−3

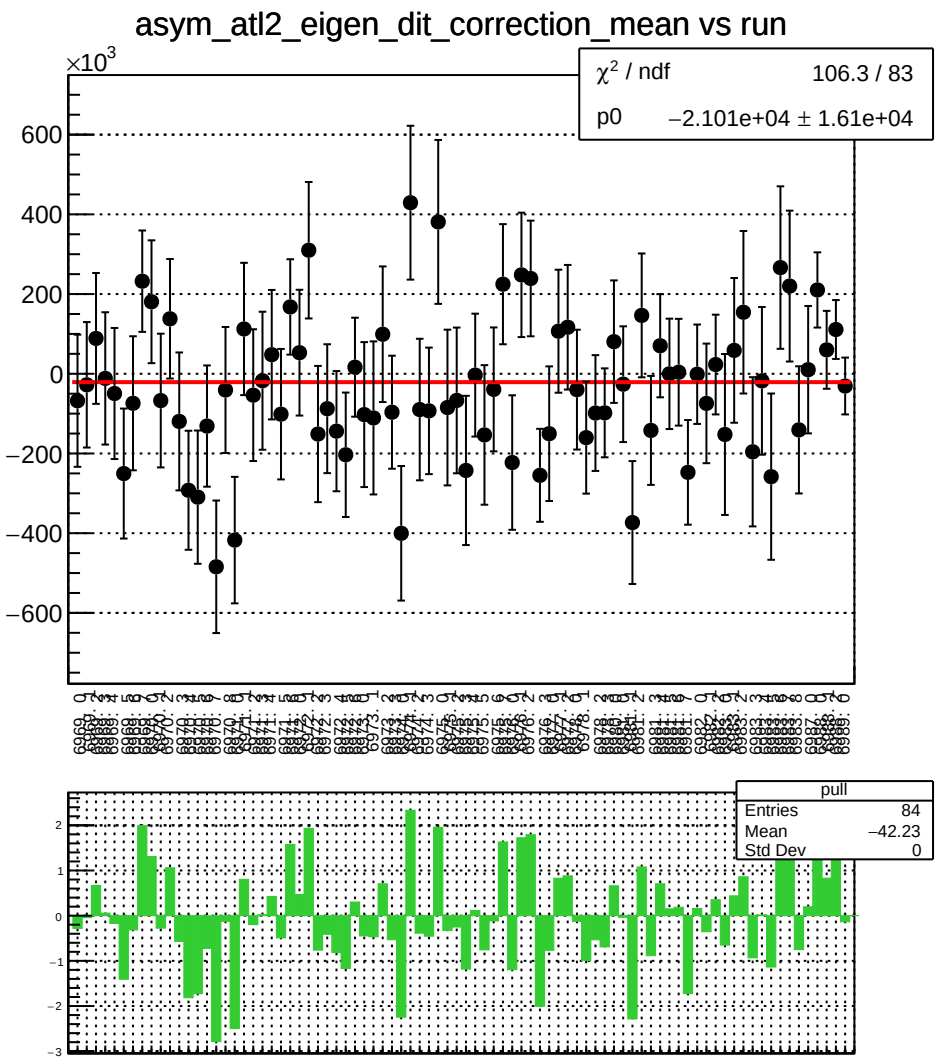

pull1D
Entries 84
Mean −0.04535
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

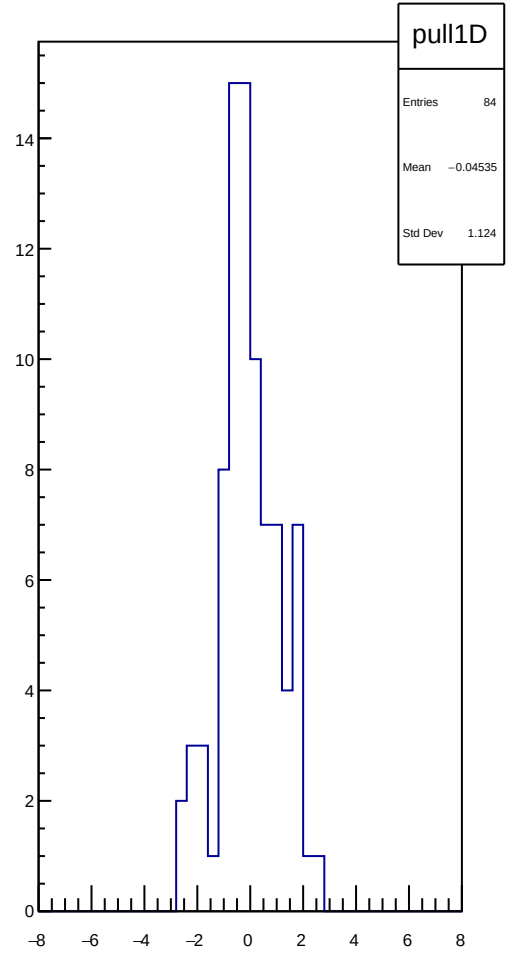

asym_atl2_dit_correction_rms vs run
χ² / ndf 5.615e+04 / 83
p0 1.448e+04 ± 11.38
20000
18000
16000
14000
12000
10000
8000

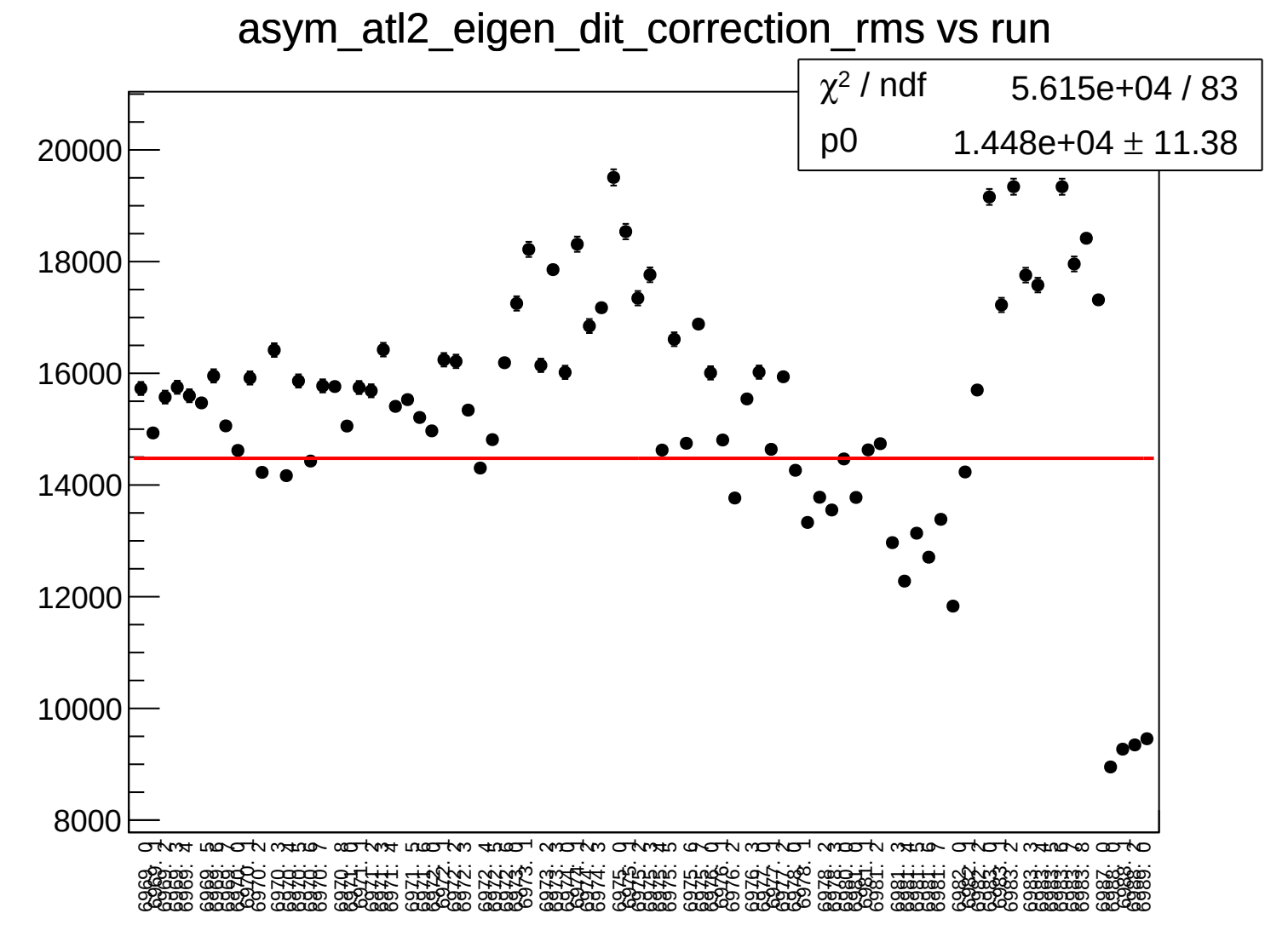

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 94.98 / 83
p0 −4166 ± 3066
100
50
0
−50
−100
pull
Entries 84
Mean −414
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

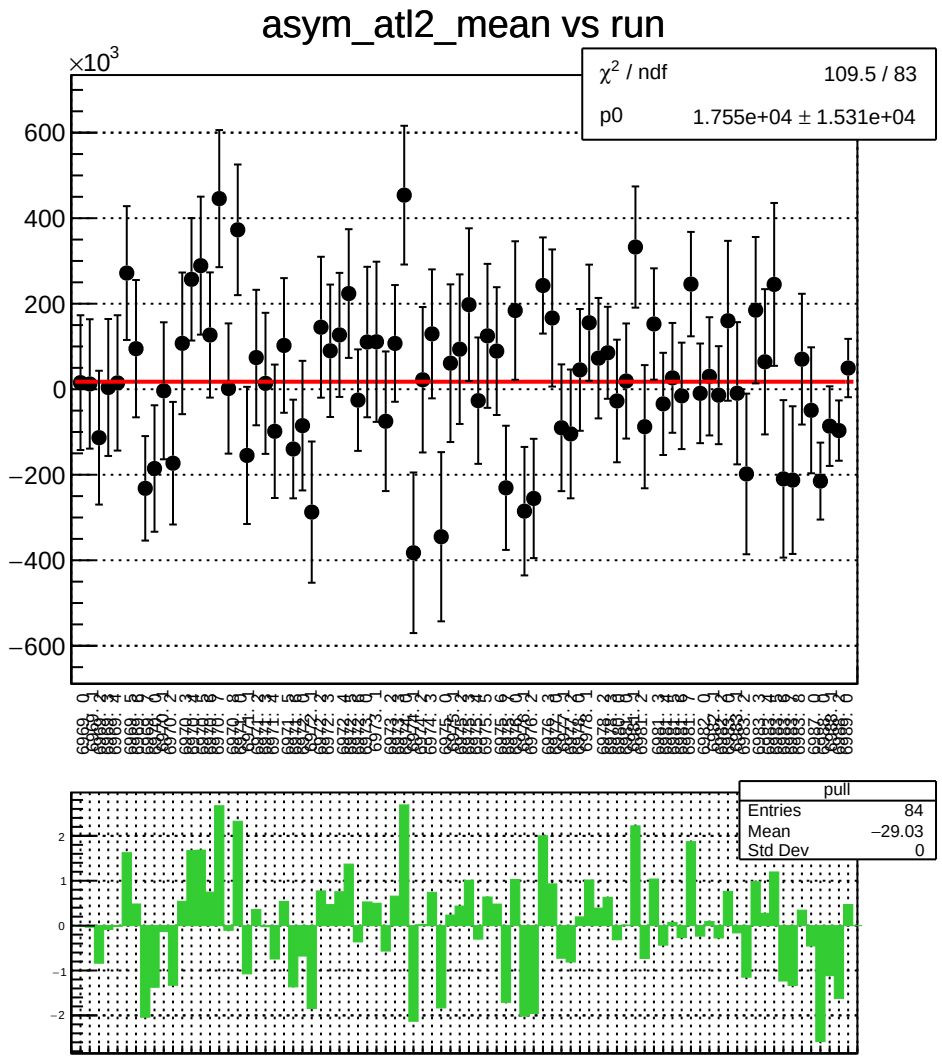

pull1D
Entries 84
Mean −0.01166
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

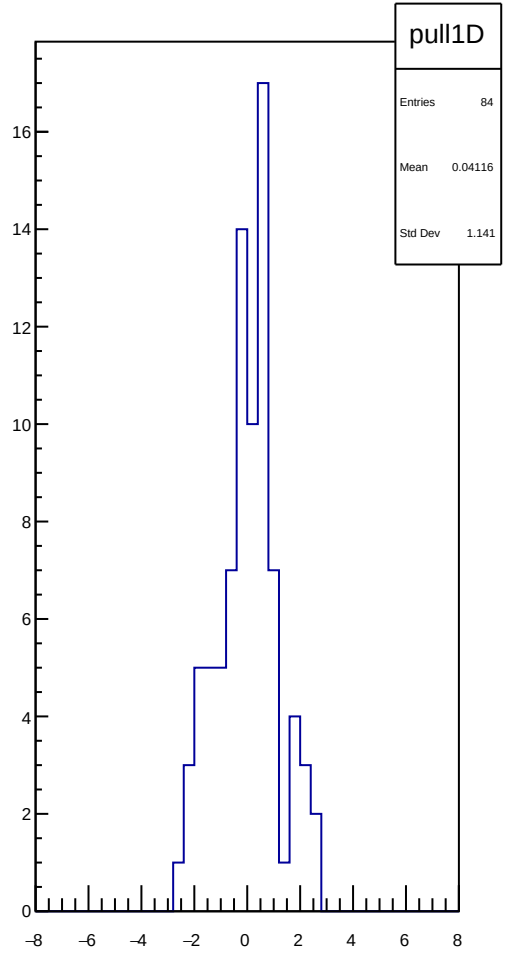

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 3097 / 83
p0 2802 ± 2.168
3300
3200
3100
3000
2900
2800
2700
2600

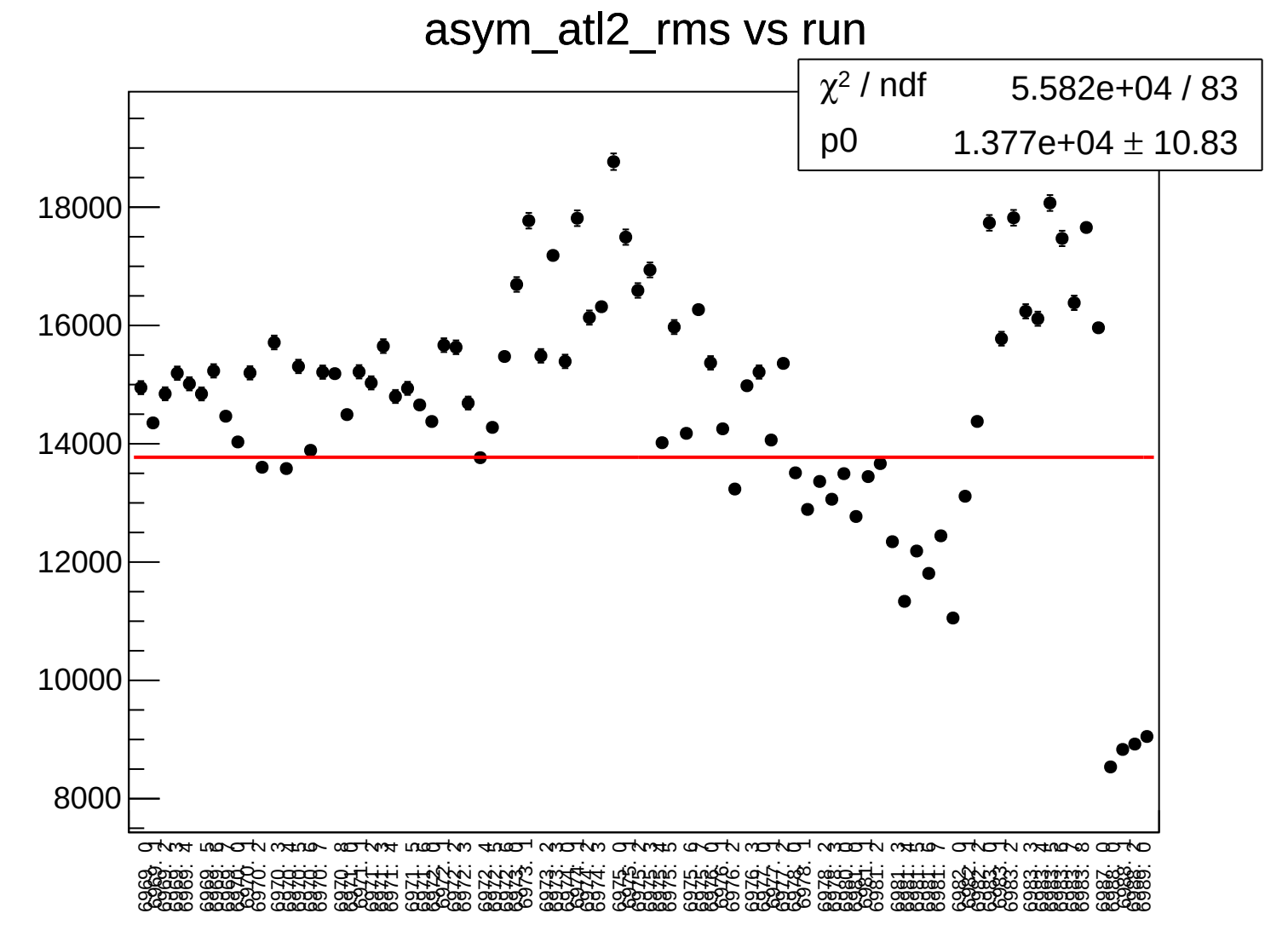

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.3 / 83
p0 −2.101e+04 ± 1.61e+04
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean −42.23
Std Dev 0
2
1
0
−1
−2
−3

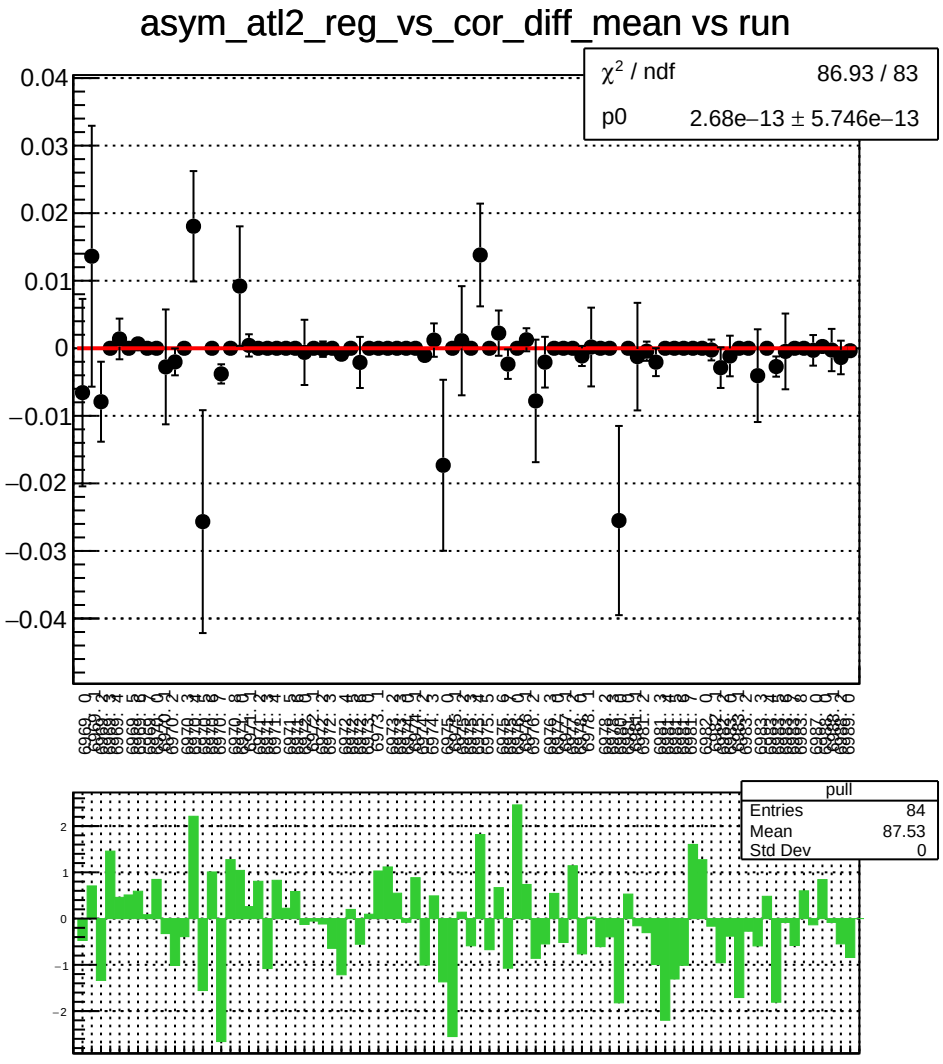

pull1D
Entries 84
Mean −0.04535
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

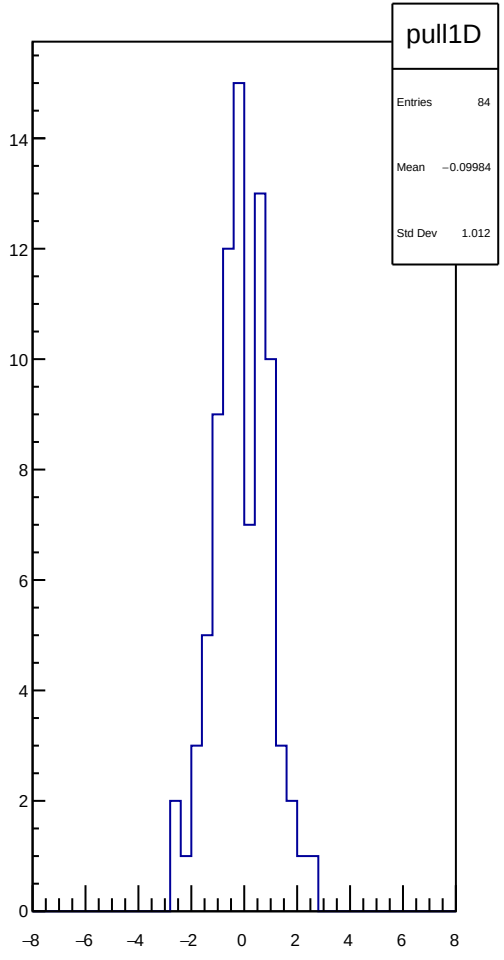

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 5.615e+04 / 83
p0 1.448e+04 ± 11.38
20000
18000
16000
14000
12000
10000
8000

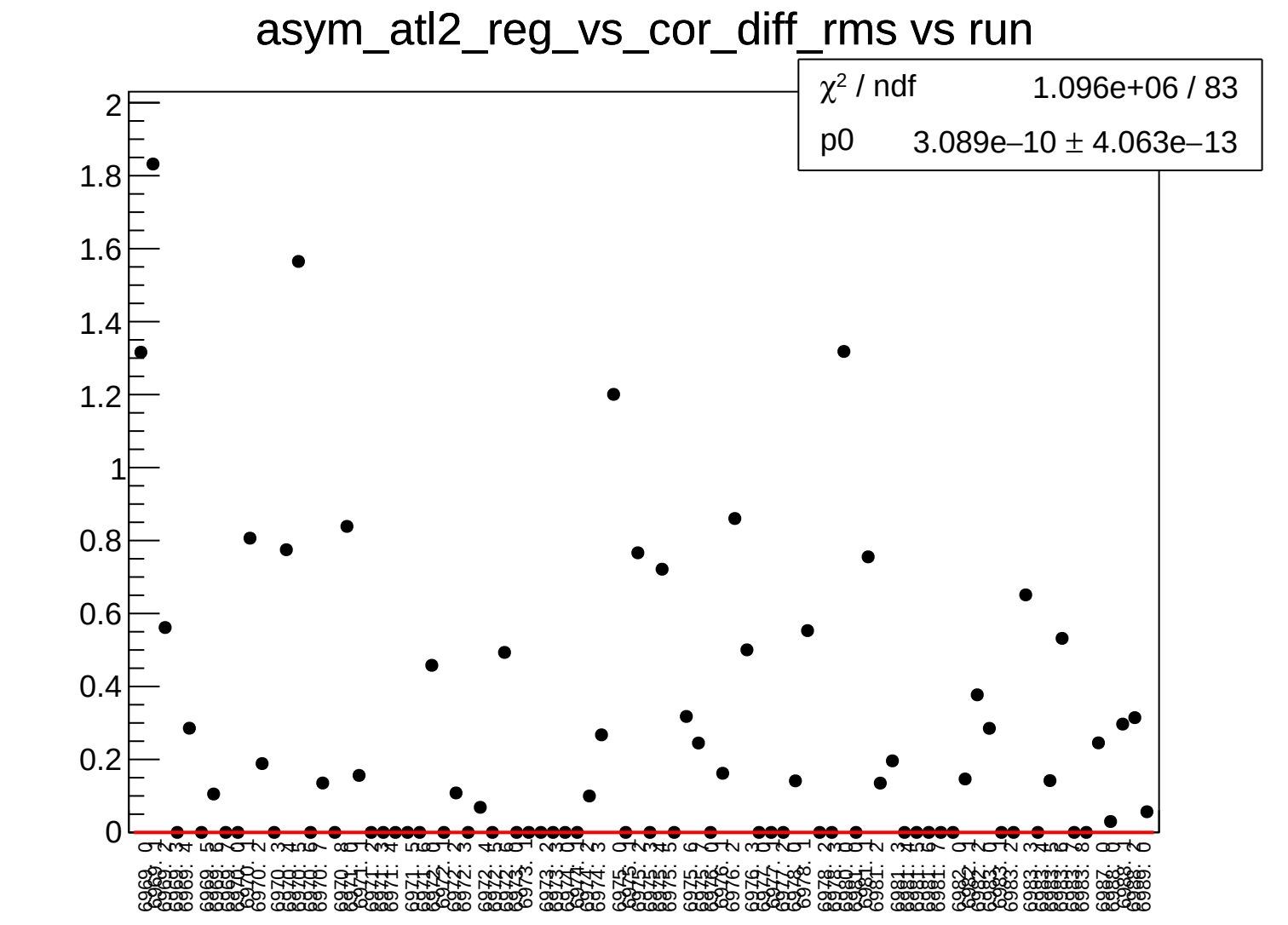

asym_atl2_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 109.5 / 83
p0 1.755e+04 ± 1.531e+04
pull
Entries 84
Mean −29.03
Std Dev 0
2
1
0
−1
−2

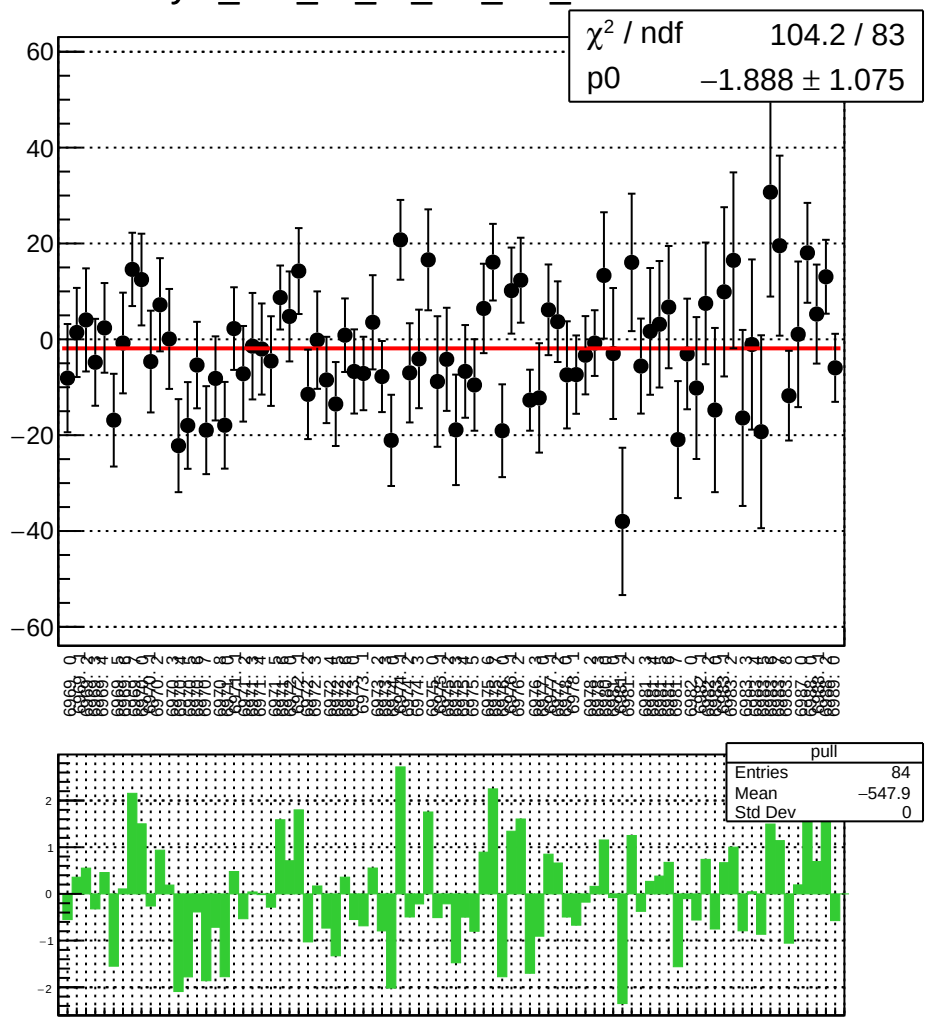

pull1D
Entries 84
Mean 0.04116
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

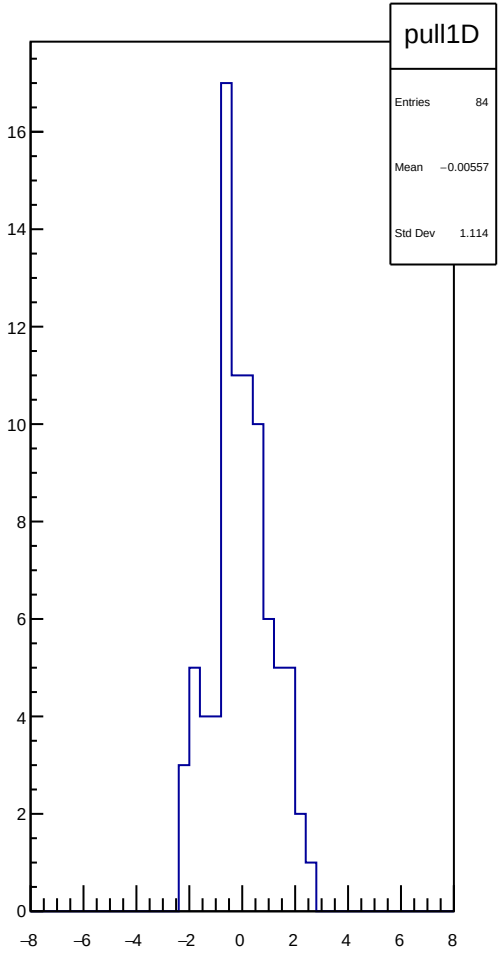

asym_atl2_rms vs run
χ² / ndf 5.582e+04 / 83
p0 1.377e+04 ± 10.83
18000
16000
14000
12000
10000
8000

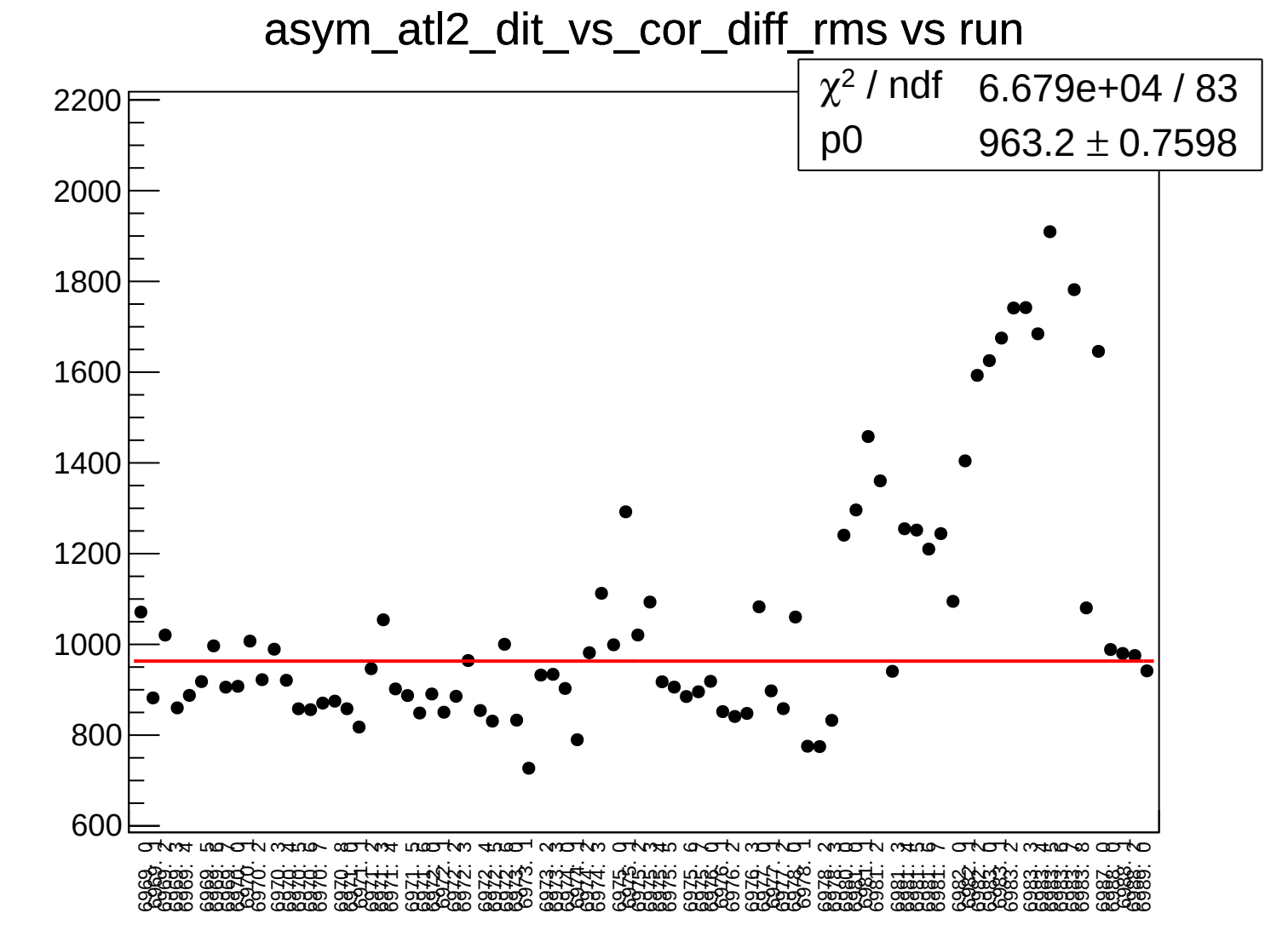

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 86.93 / 83
p0 2.68e−13 ± 5.746e−13
pull
Entries 84
Mean 87.53
Std Dev 0

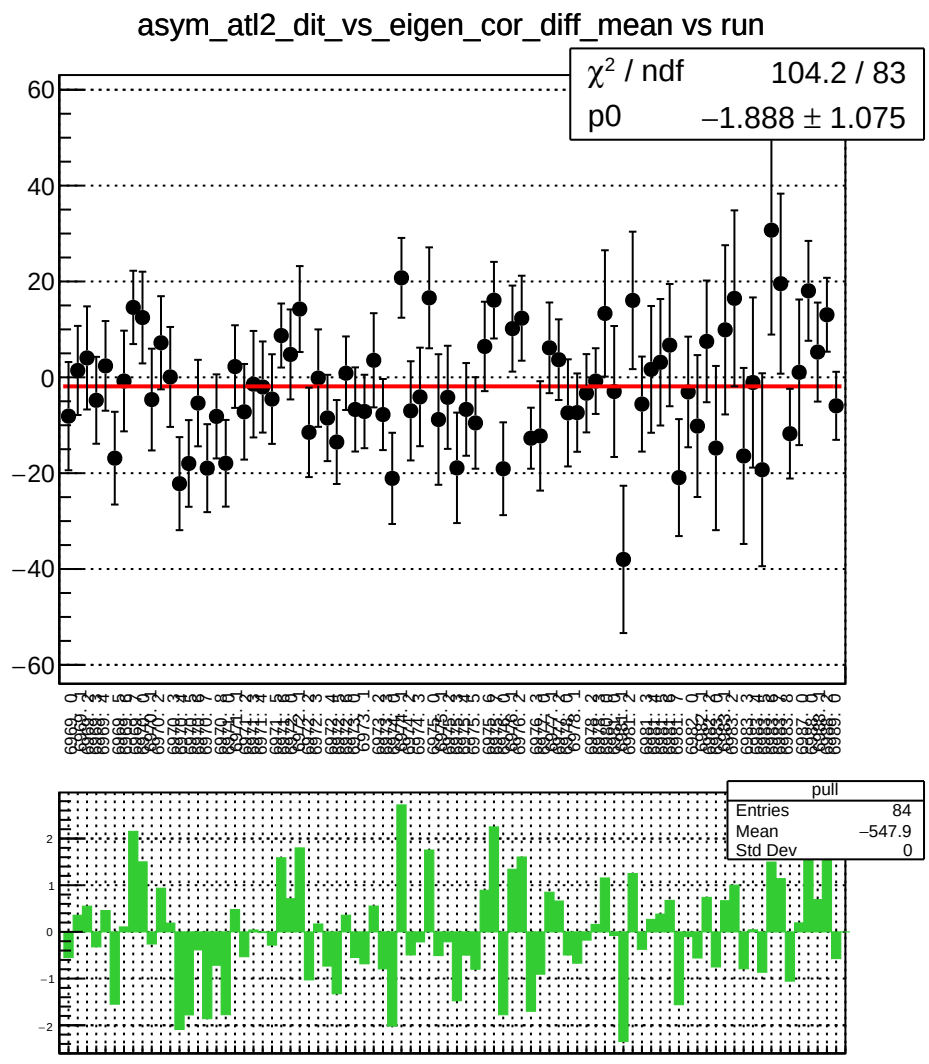

pull1D
Entries 84
Mean −0.09984
Std Dev 1.012

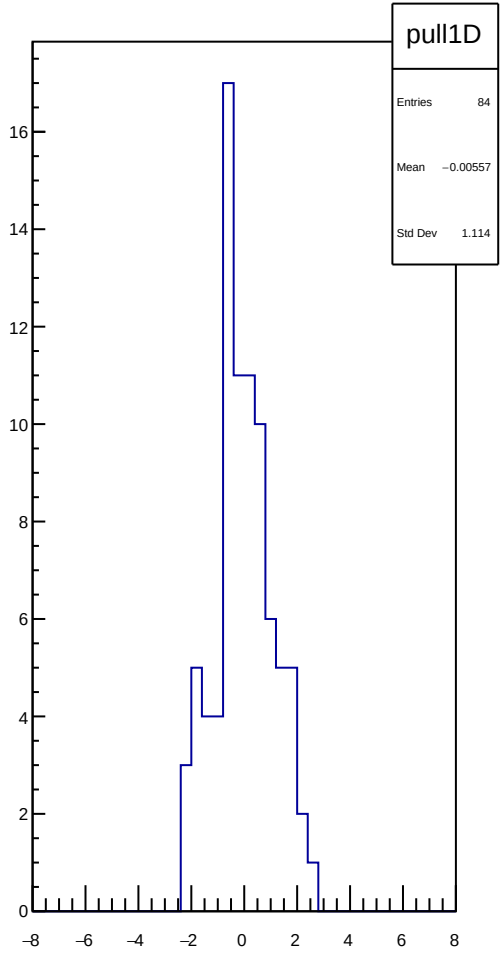

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.096e+06 / 83
p0 3.089e−10 ± 4.063e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

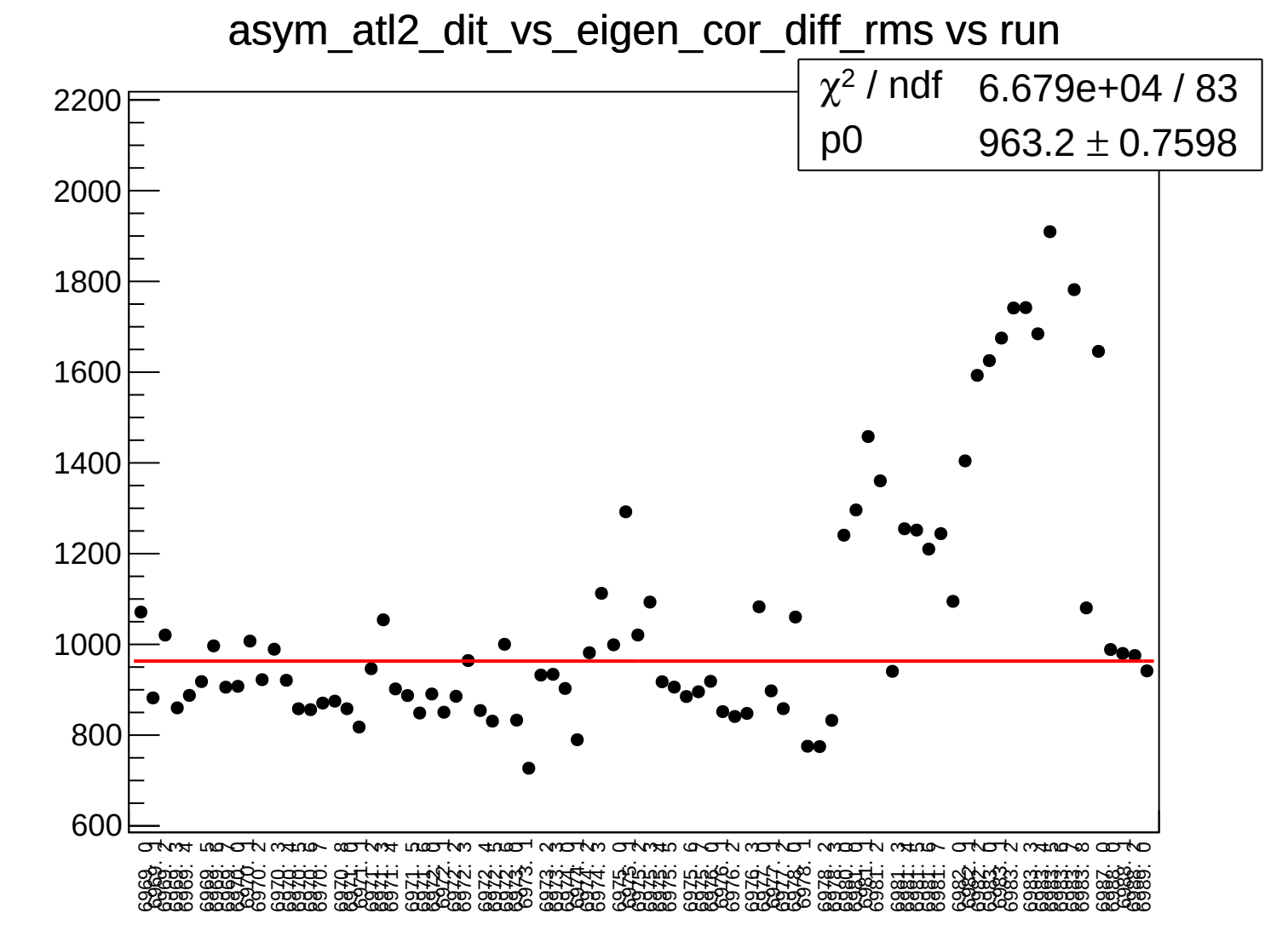

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 83
p0 −1.888 ± 1.075
pull
Entries 84
Mean −547.9
Std Dev 0

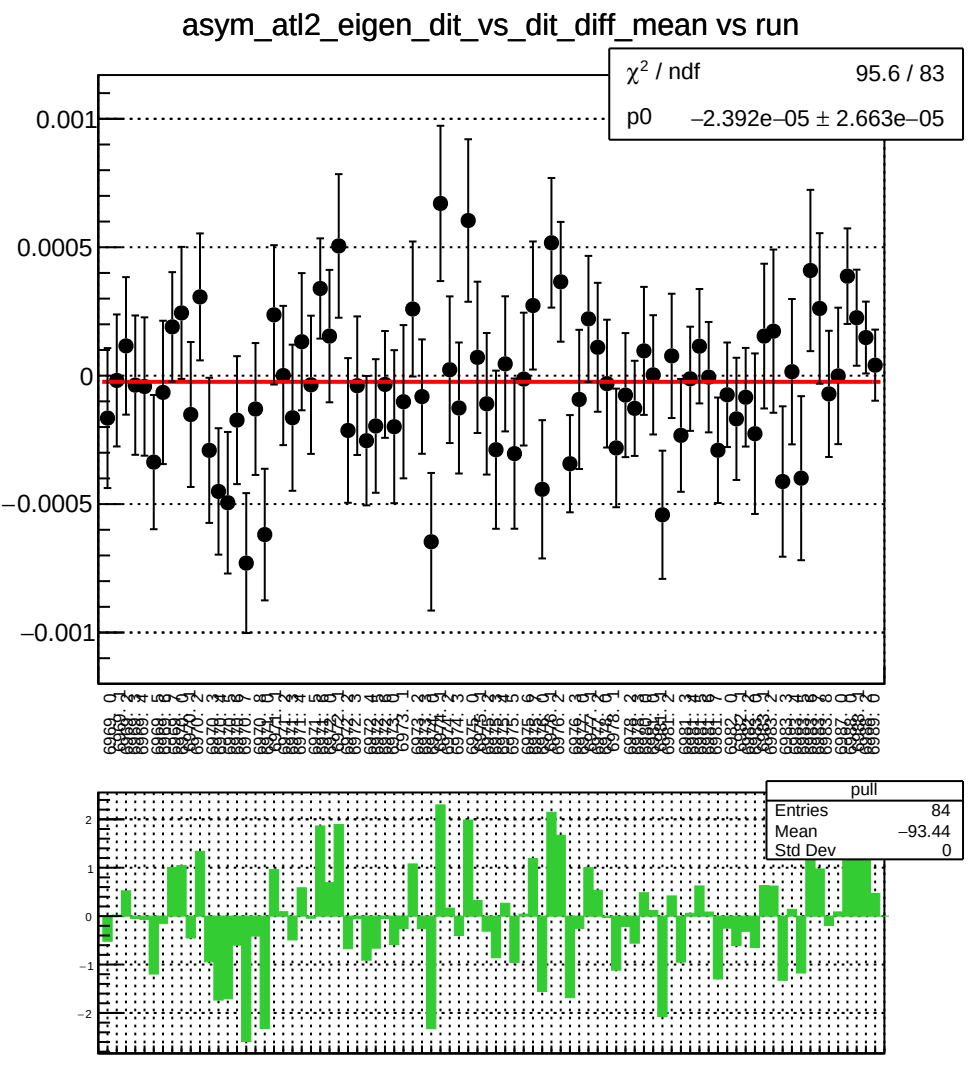

pull1D
Entries 84
Mean −0.00557
Std Dev 1.114

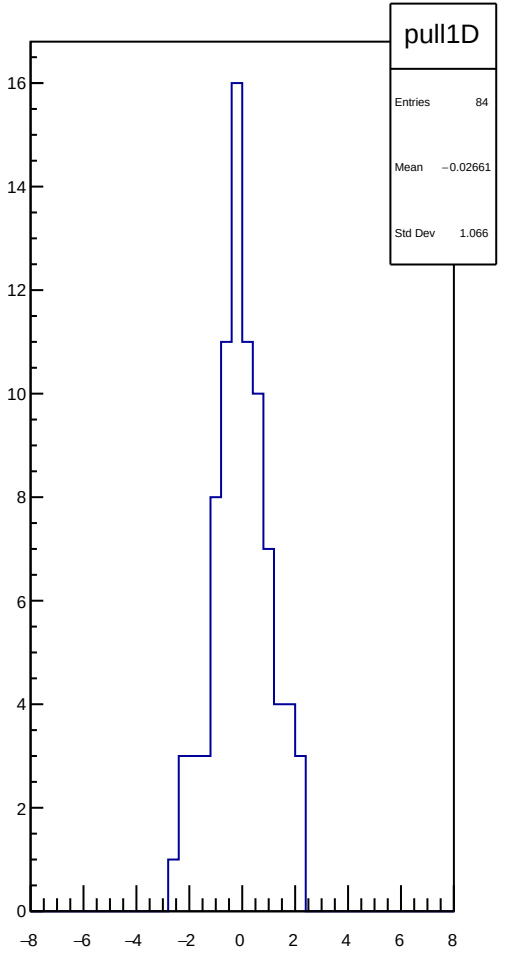

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.679e+04 / 83
p0 963.2 ± 0.7598
2200
2000
1800
1600
1400
1200
1000
800
600

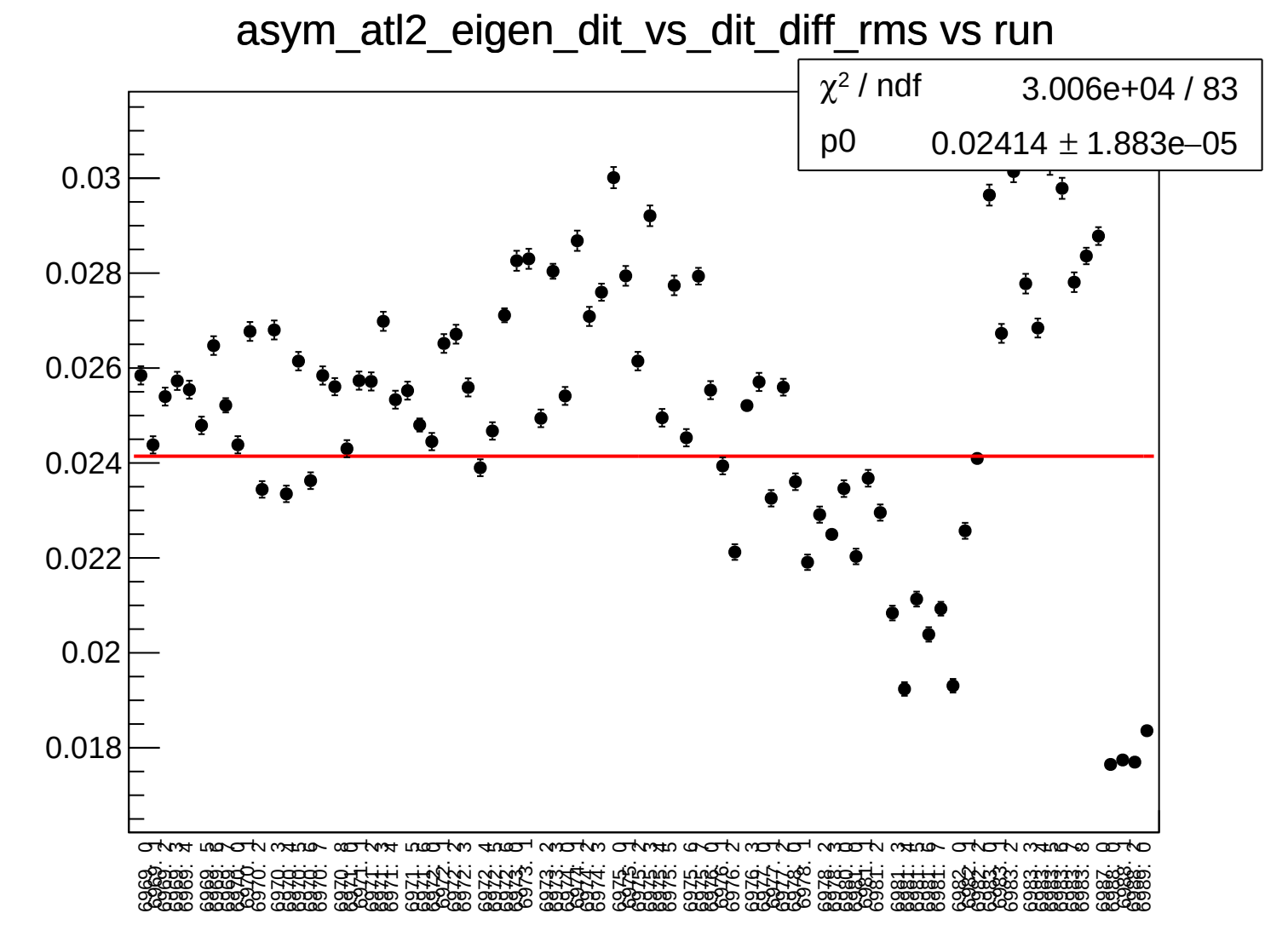

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 83
p0 −1.888 ± 1.075
pull
Entries 84
Mean −547.9
Std Dev 0

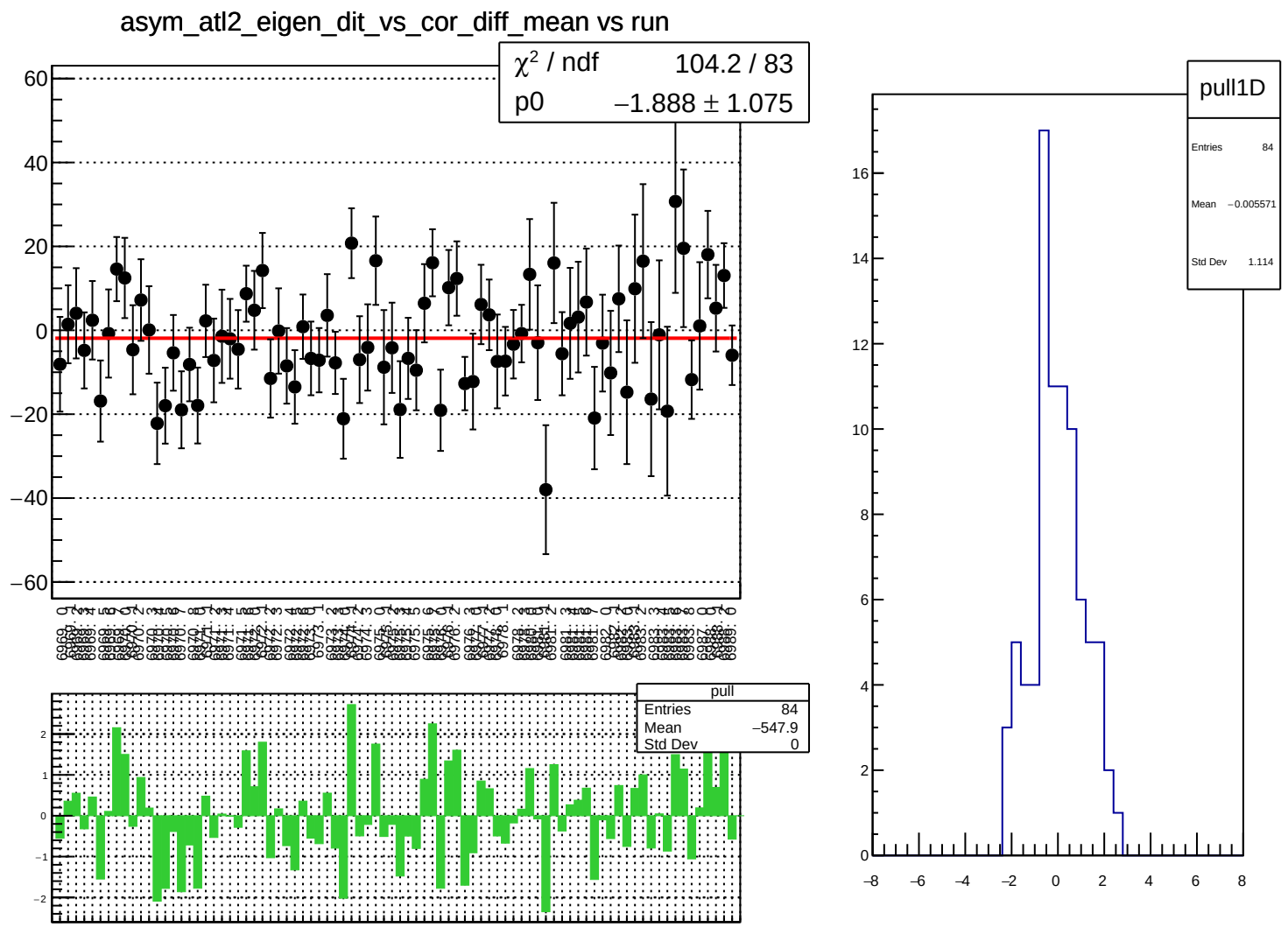

pull1D
Entries 84
Mean −0.00557
Std Dev 1.114

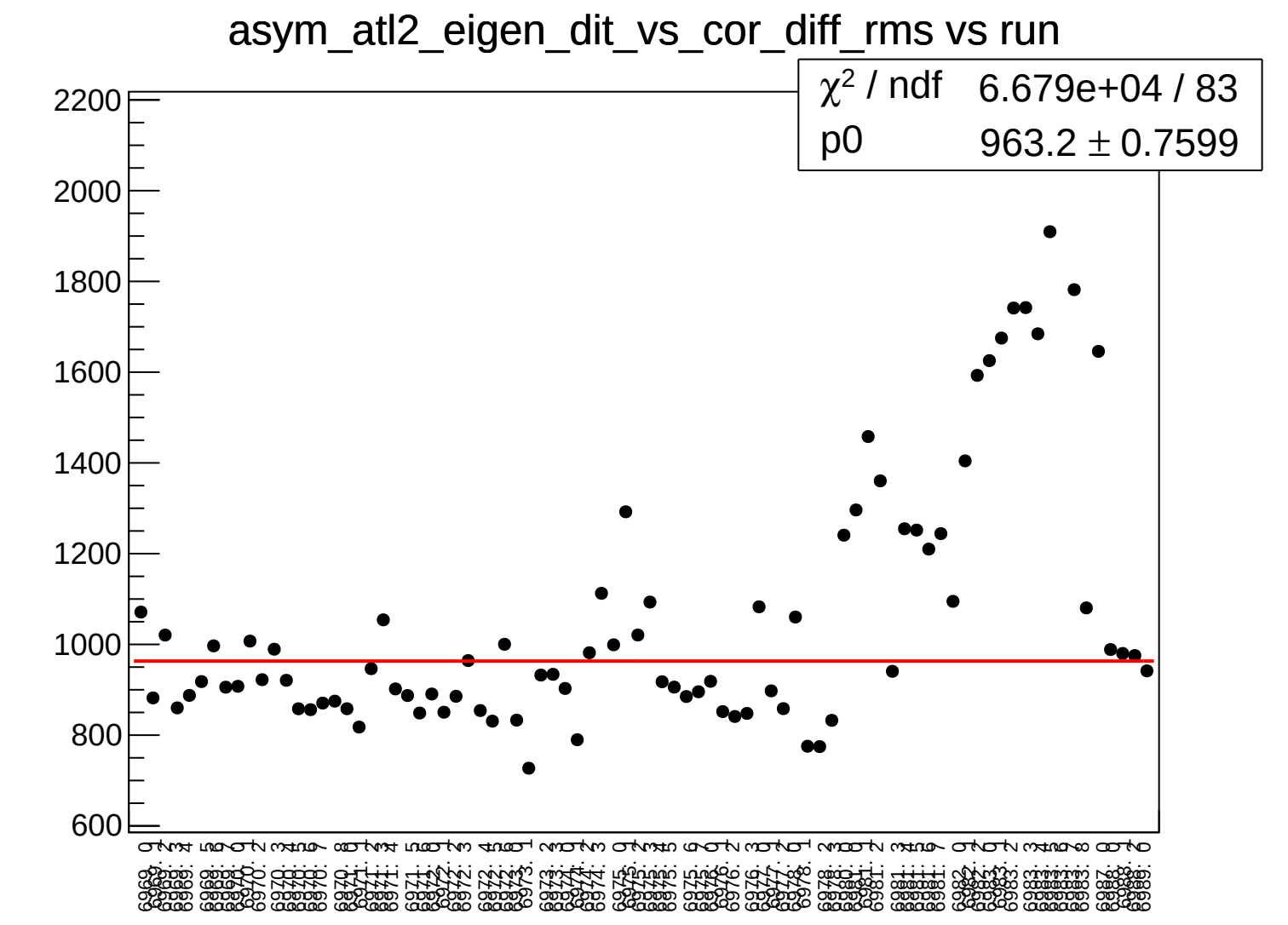

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.679e+04 / 83
p0 963.2 ± 0.7598
2200
2000
1800
1600
1400
1200
1000
800
600

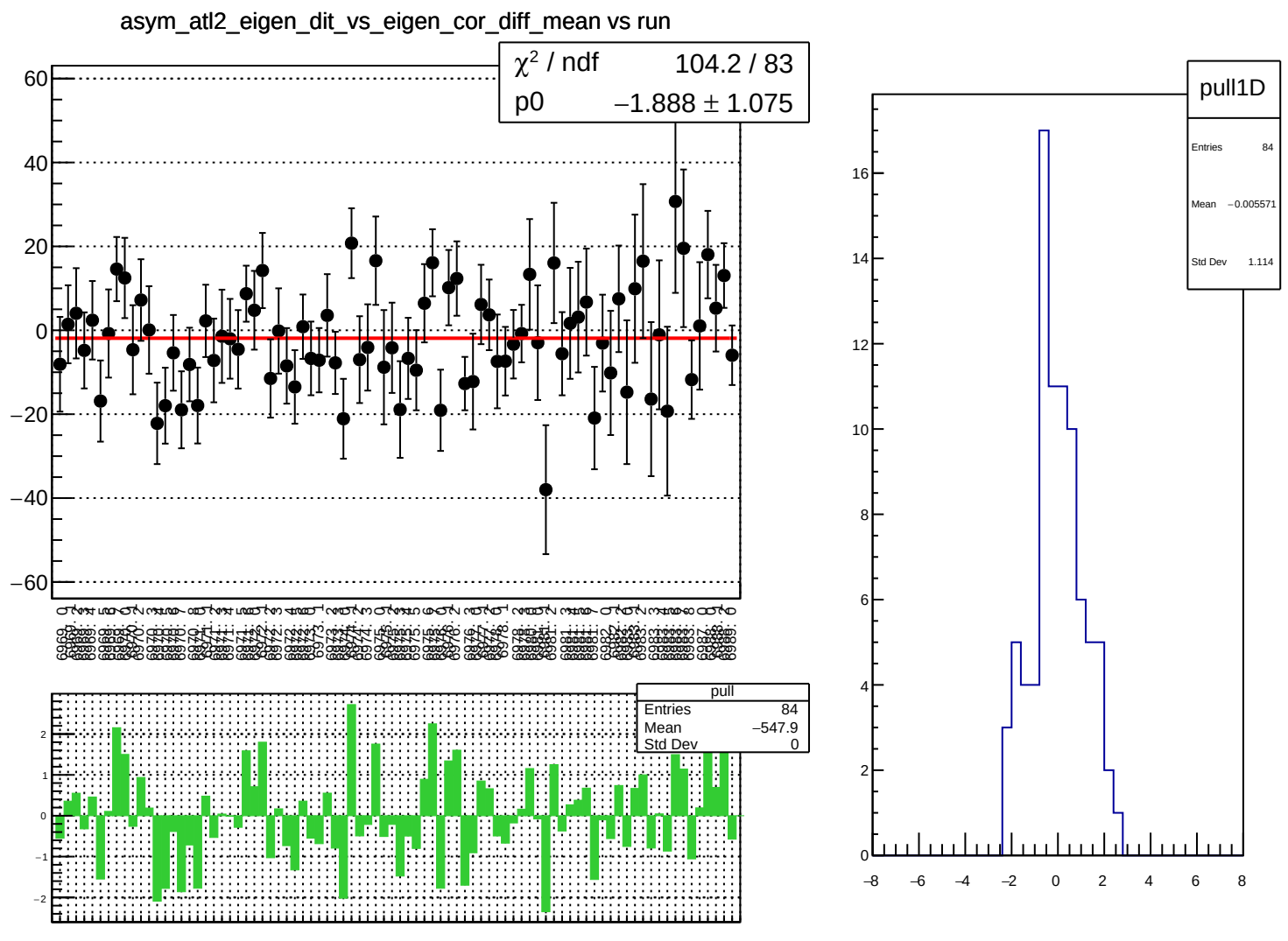

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 95.6 / 83
p0 −2.392e−05 ± 2.663e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean −93.44
Std Dev 0
2
1
0
−1
−2

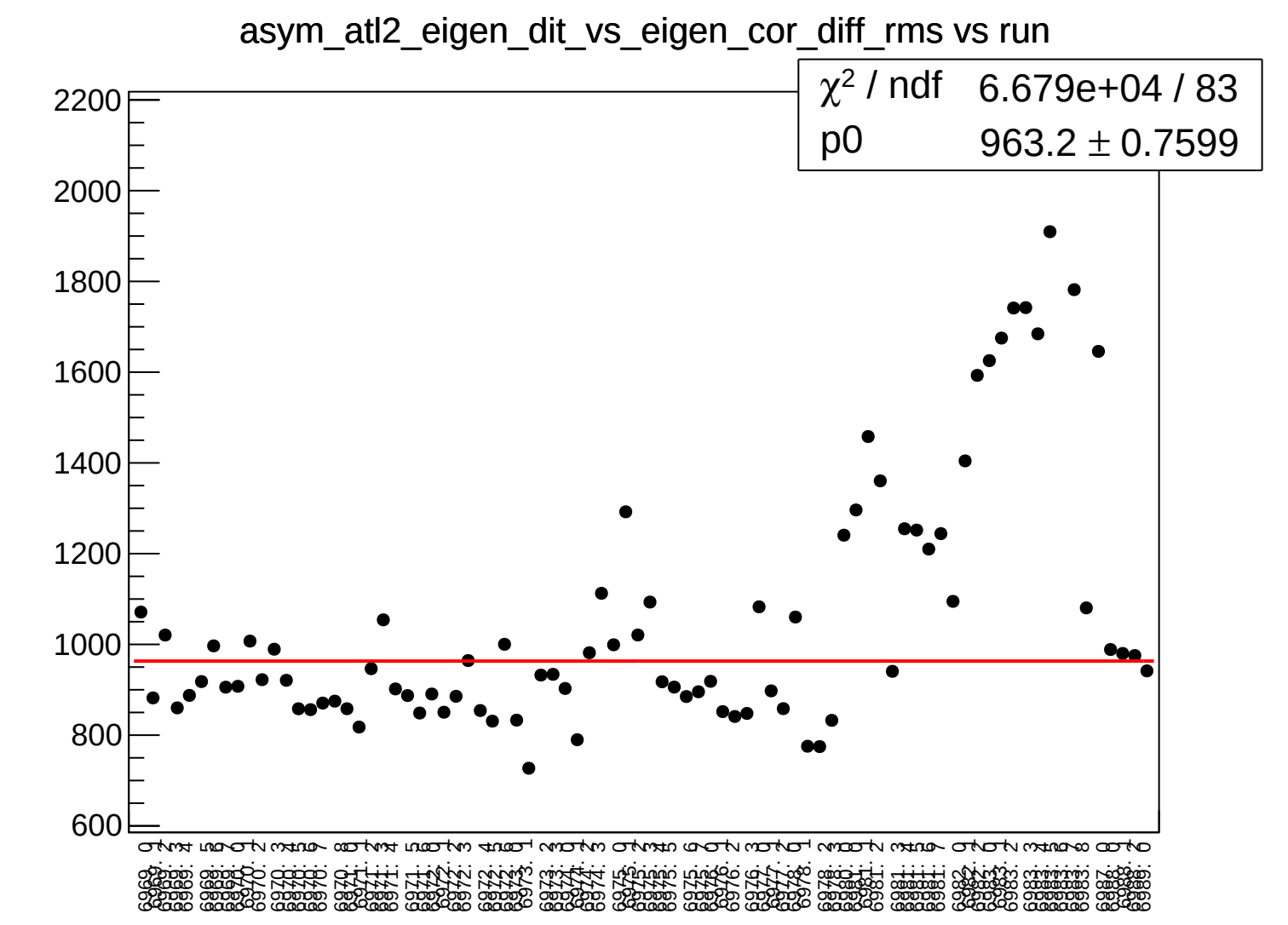

pull1D
Entries 84
Mean −0.02661
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

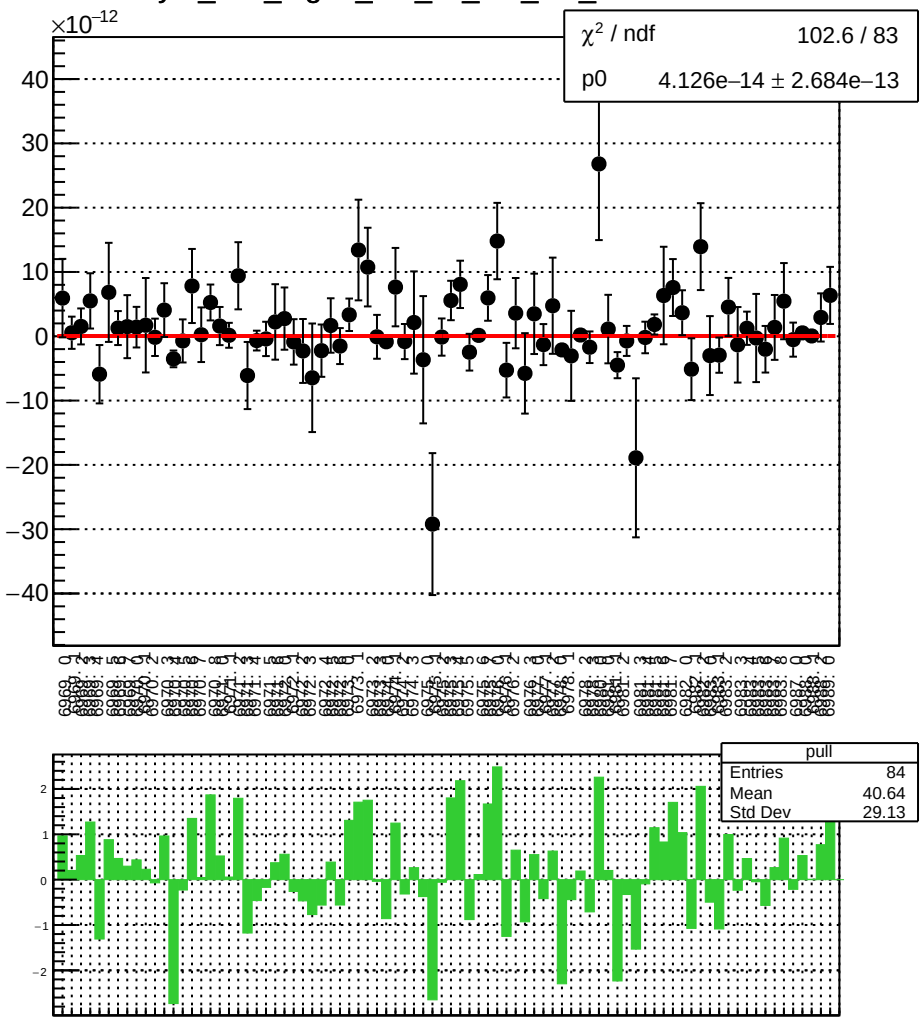

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.006e+04 / 83
p0 0.02414 ± 1.883e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018

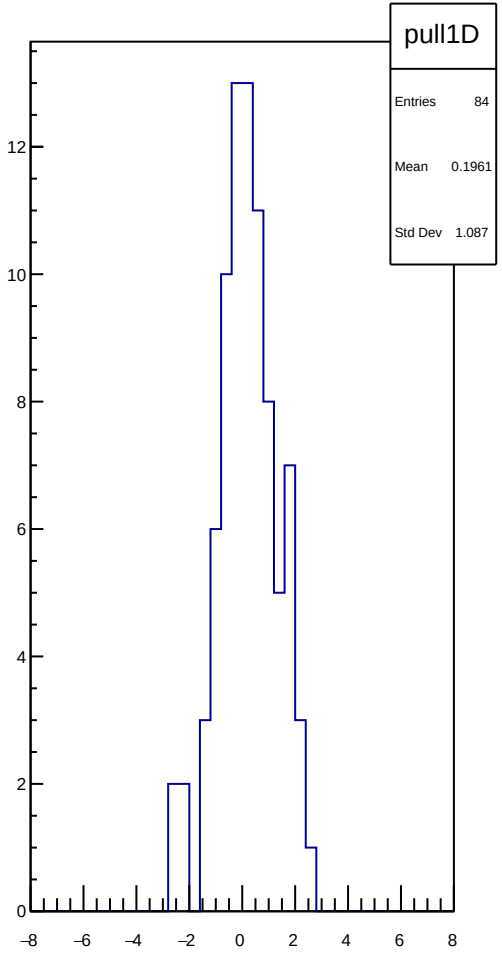

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 83
p0 −1.888 ± 1.075
pull
Entries 84
Mean −547.9
Std Dev 0
pull1D
Entries 84
Mean −0.005571
Std Dev 1.114

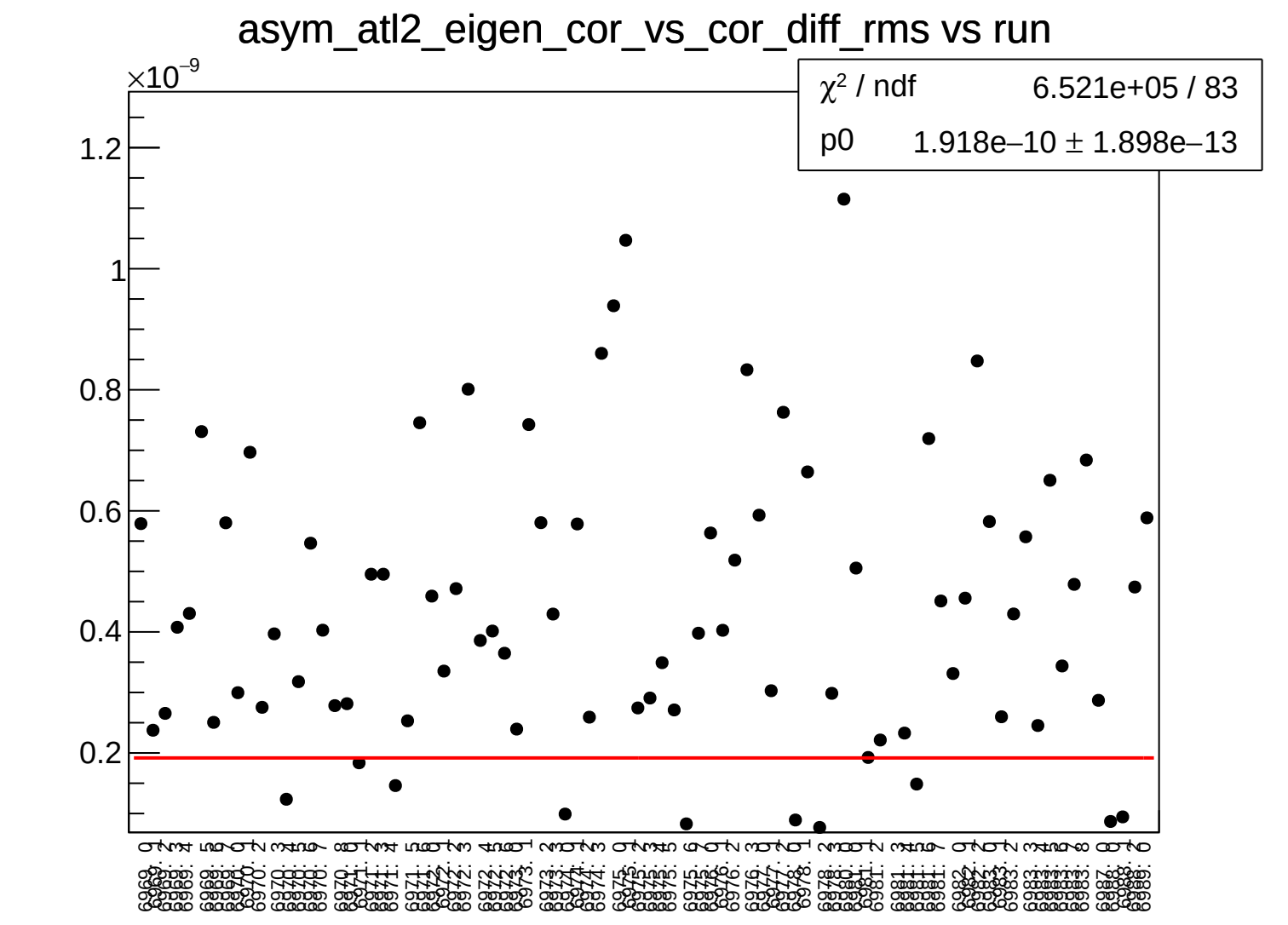

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.679e+04 / 83
p0 963.2 ± 0.7599
2200
2000
1800
1600
1400
1200
1000
800
600

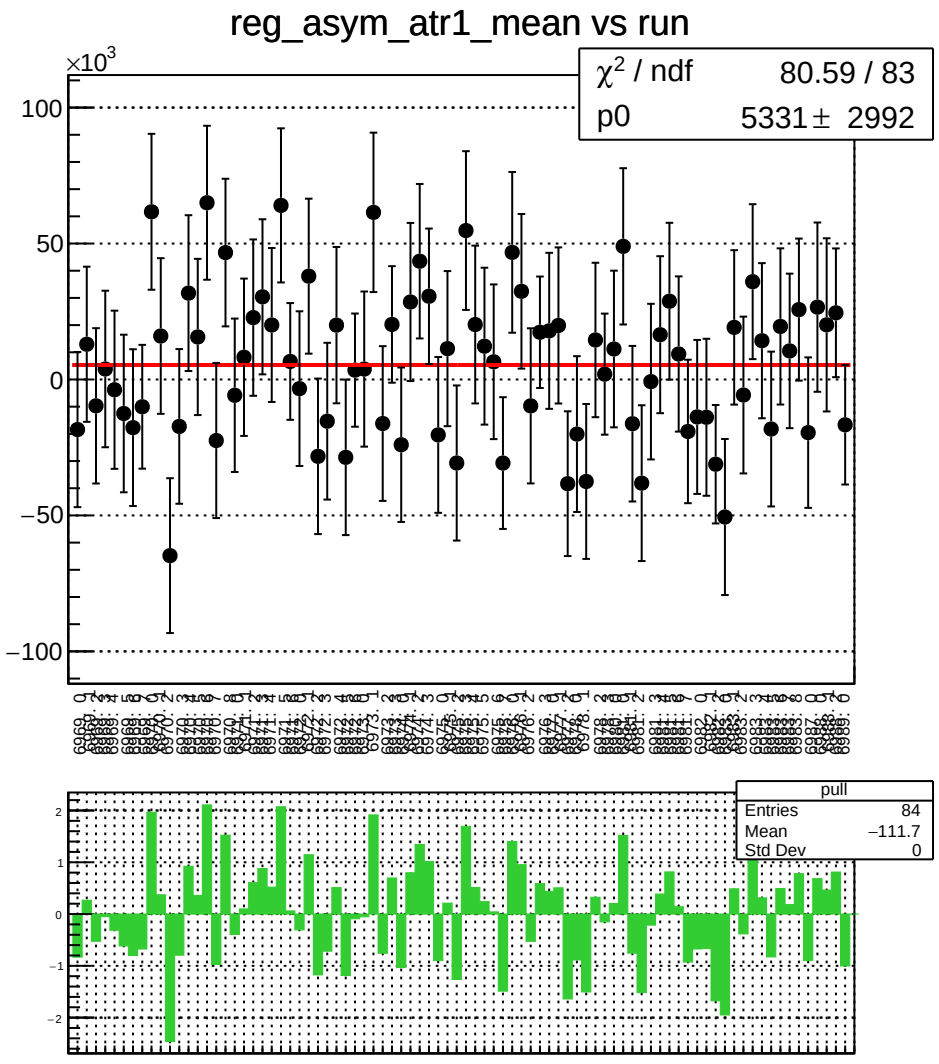

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 83
p0 −1.888 ± 1.075
pull
Entries 84
Mean −547.9
Std Dev 0
pull1D
Entries 84
Mean −0.005571
Std Dev 1.114

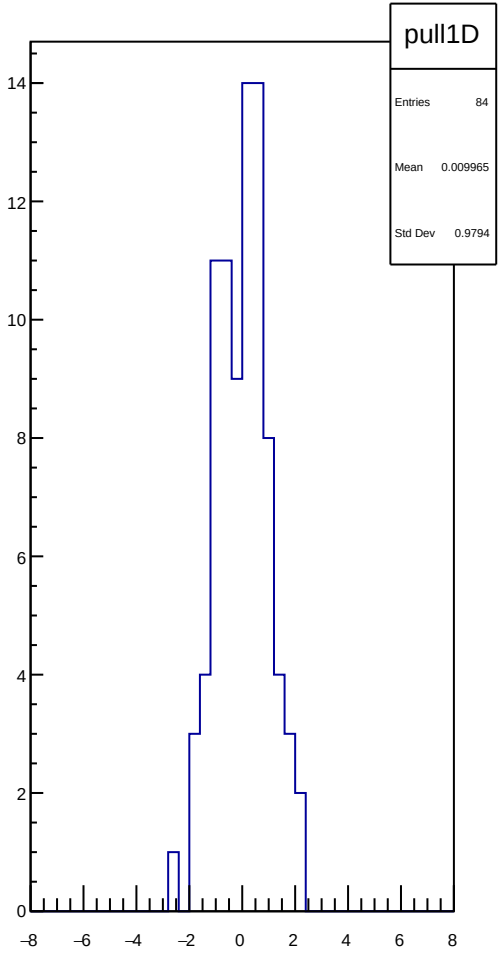

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.679e+04 / 83
p0 963.2 ± 0.7599
2200
2000
1800
1600
1400
1200
1000
800
600

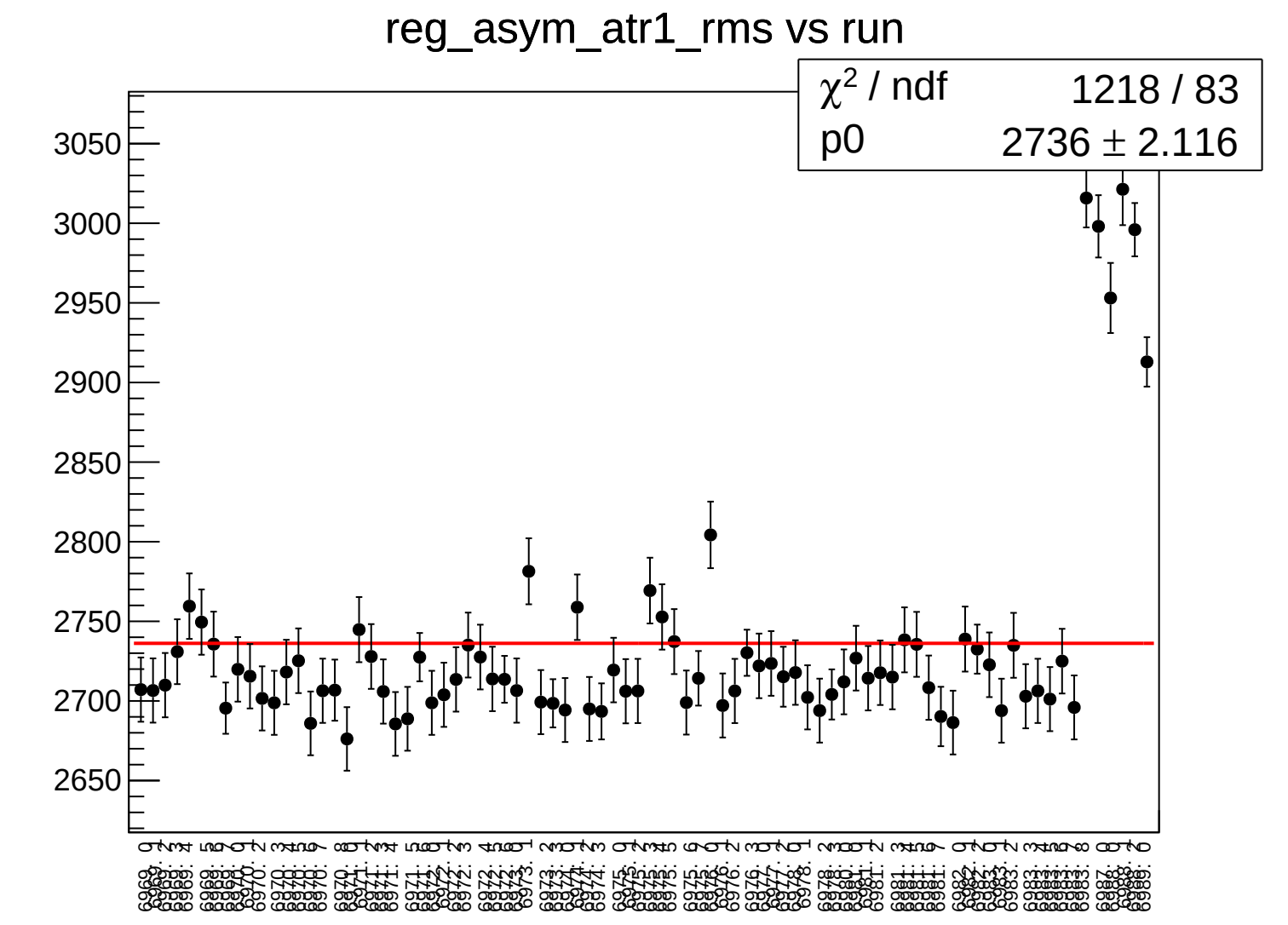

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.6 / 83
p0 4.126e−14 ± 2.684e−13
pull
Entries 84
Mean 40.64
Std Dev 29.13

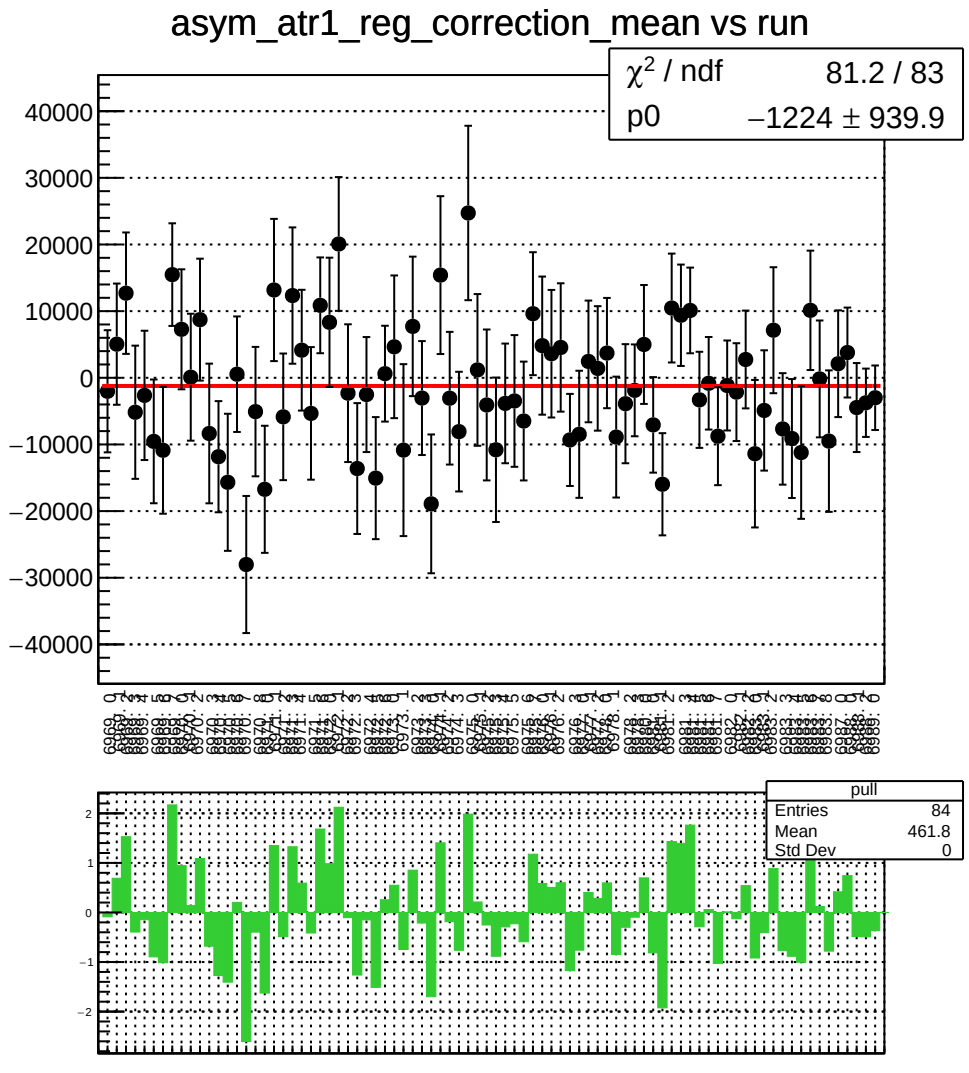

pull1D
Entries 84
Mean 0.1961
Std Dev 1.087

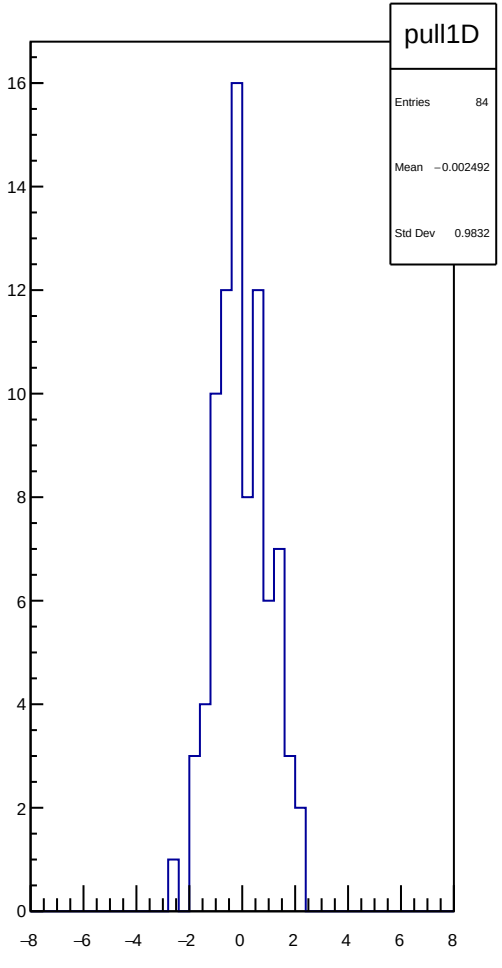

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.521e+05 / 83
p0 1.918e−10 ± 1.898e−13
1.2
1
0.8
0.6
0.4
0.2

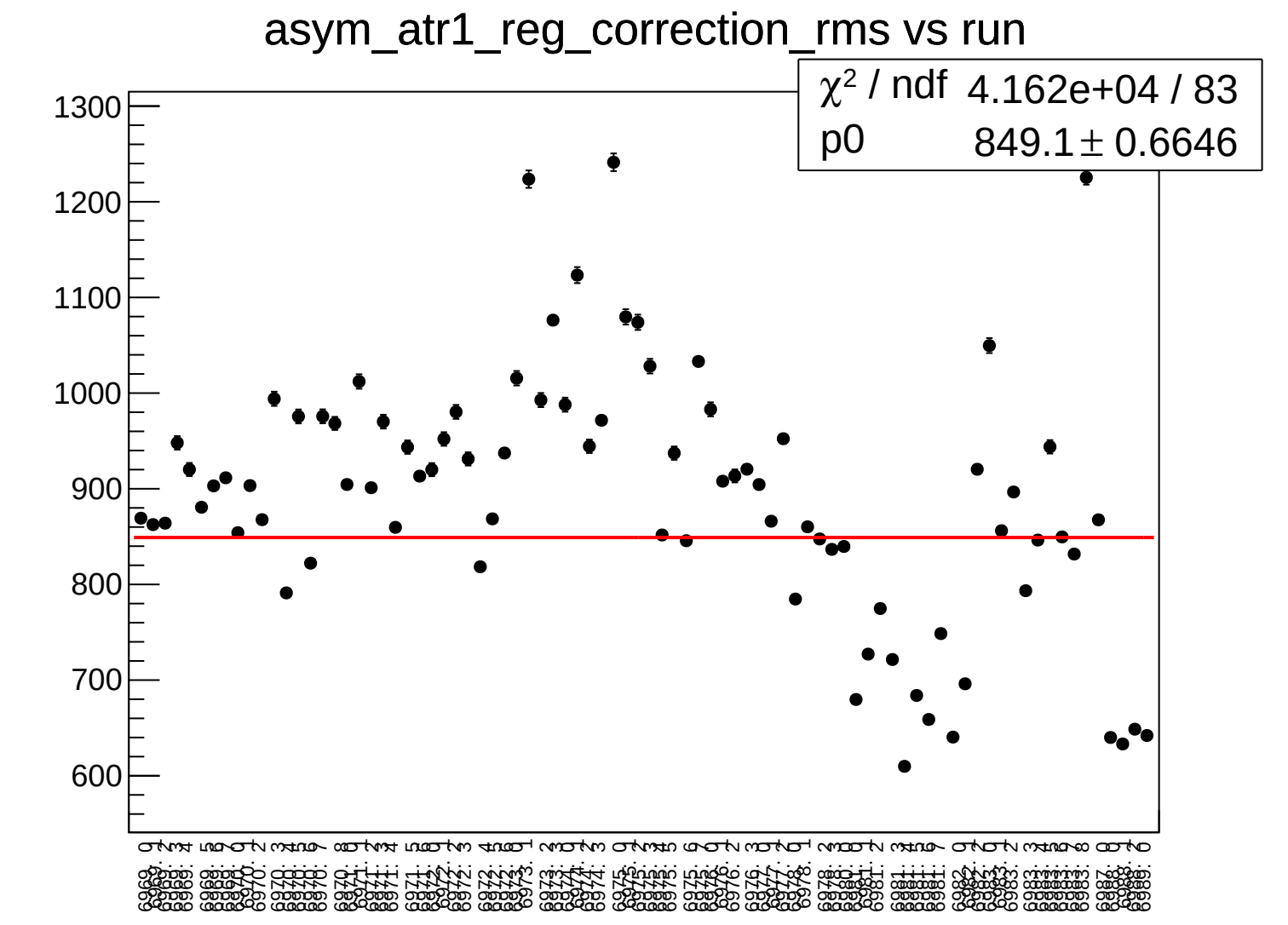

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 80.59 / 83
p0 5331 ± 2992
100
50
0
−50
−100
pull
Entries 84
Mean −111.7
Std Dev 0
2
1
0
−1
−2

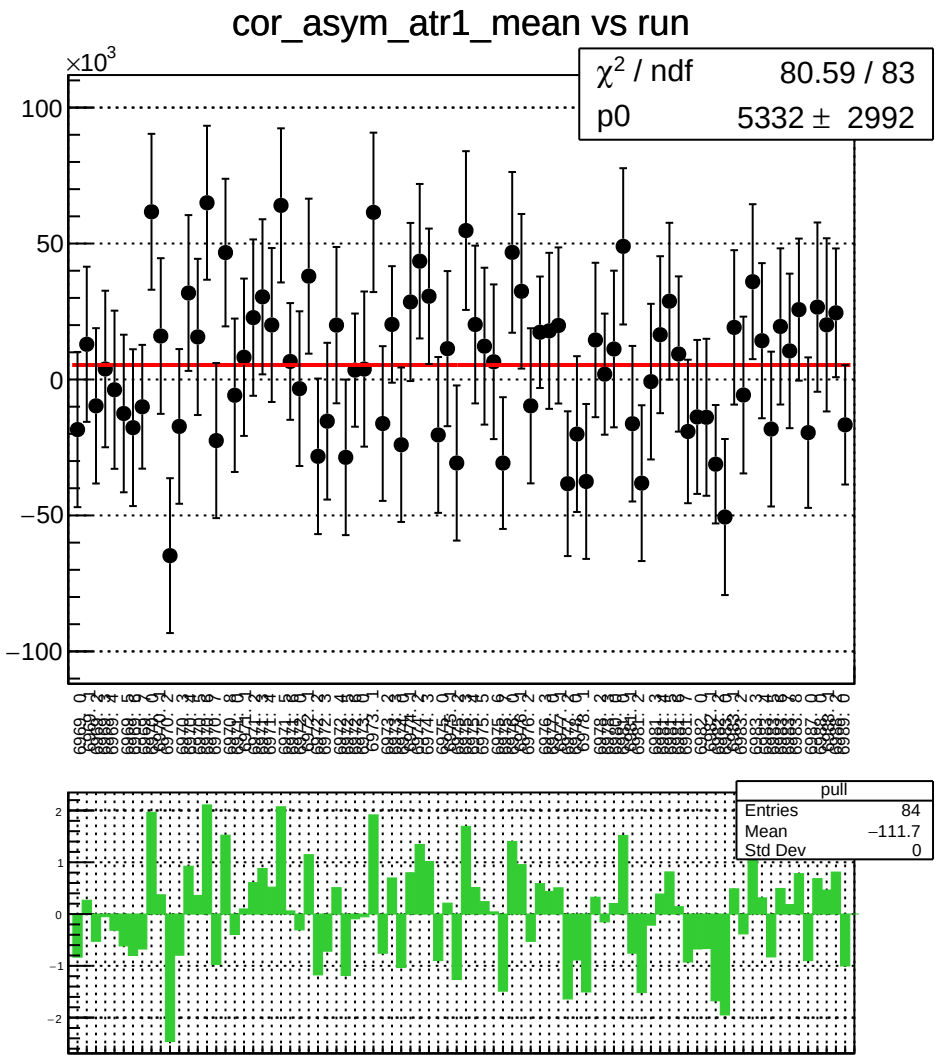

pull1D
Entries 84
Mean 0.009965
Std Dev 0.9794
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

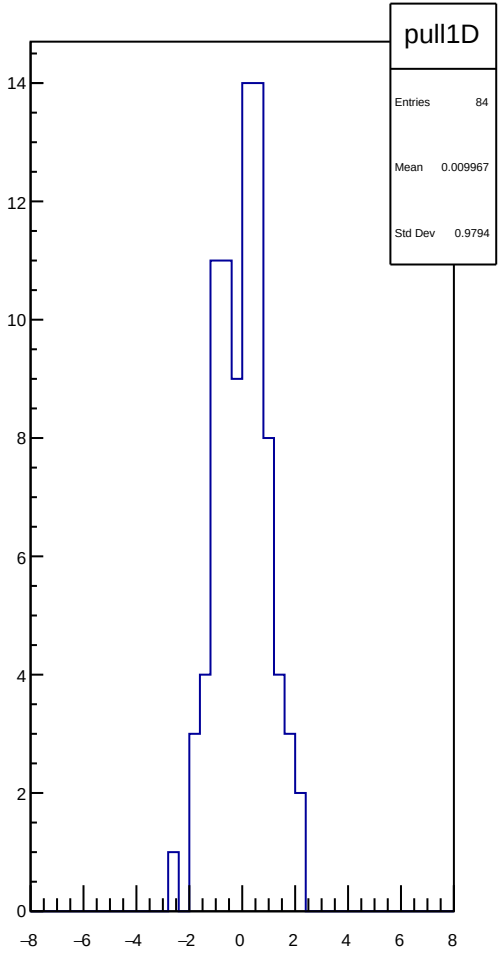

reg_asym_atr1_rms vs run
χ² / ndf 1218 / 83
p0 2736 ± 2.116
3050
3000
2950
2900
2850
2800
2750
2700
2650

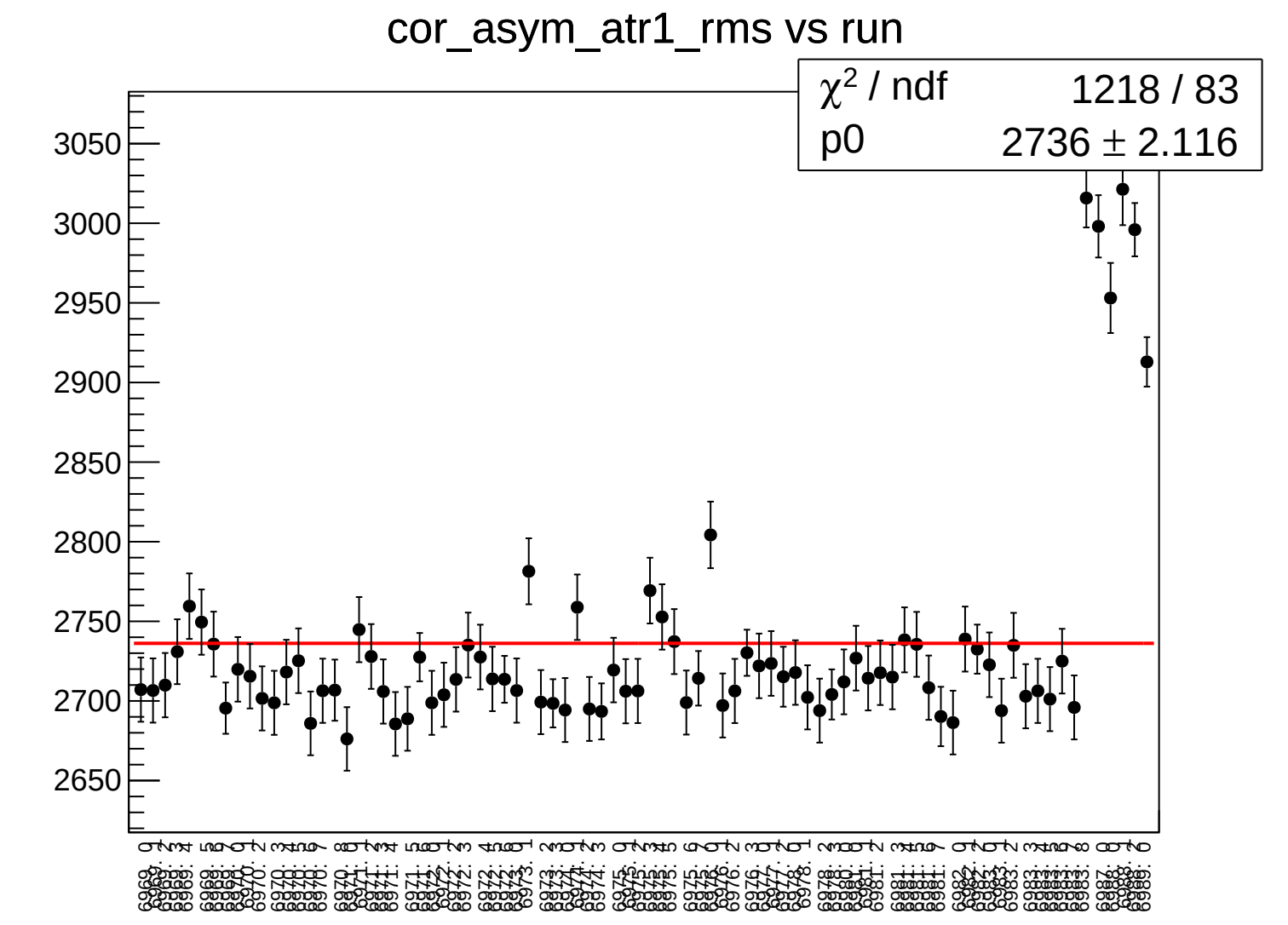

asym_atr1_reg_correction_mean vs run
χ² / ndf 81.2 / 83
p0 −1224 ± 939.9
pull
Entries 84
Mean 461.8
Std Dev 0

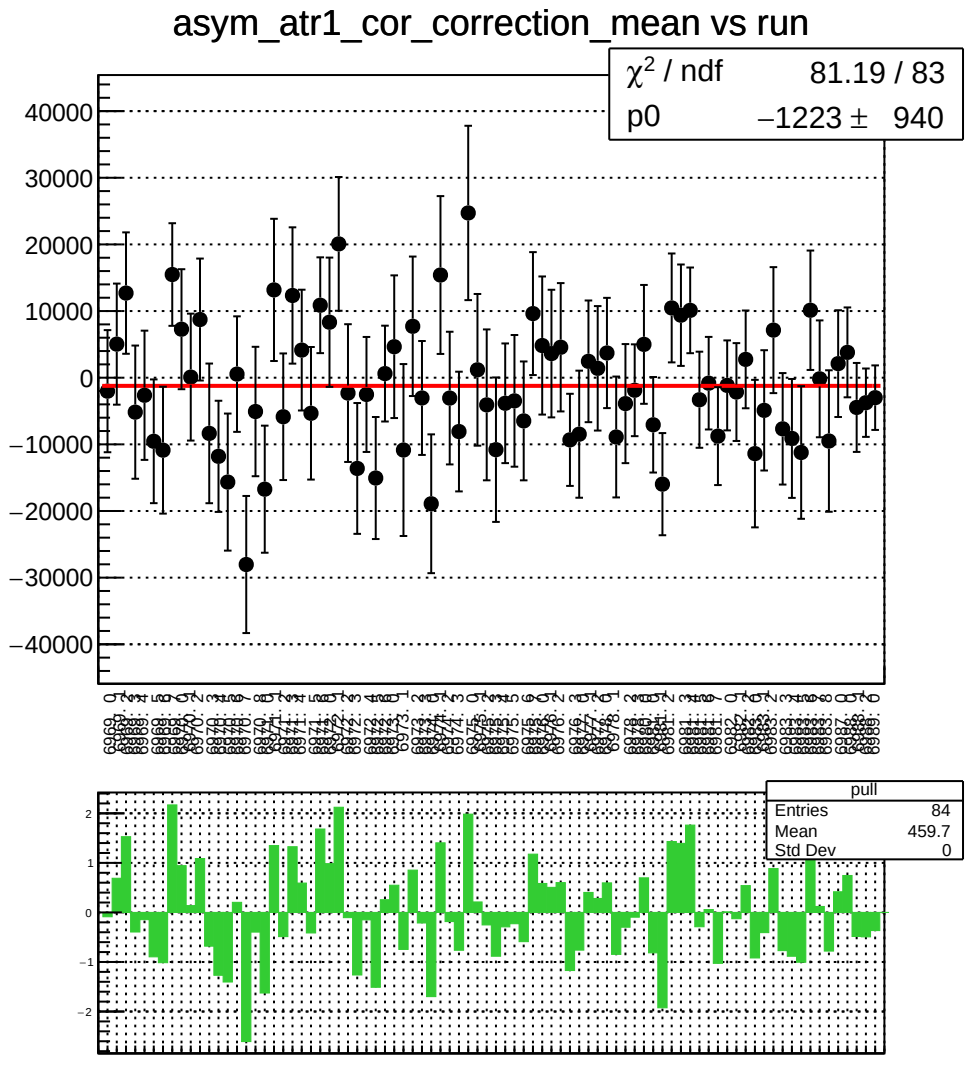

pull1D
Entries 84
Mean −0.002492
Std Dev 0.9832

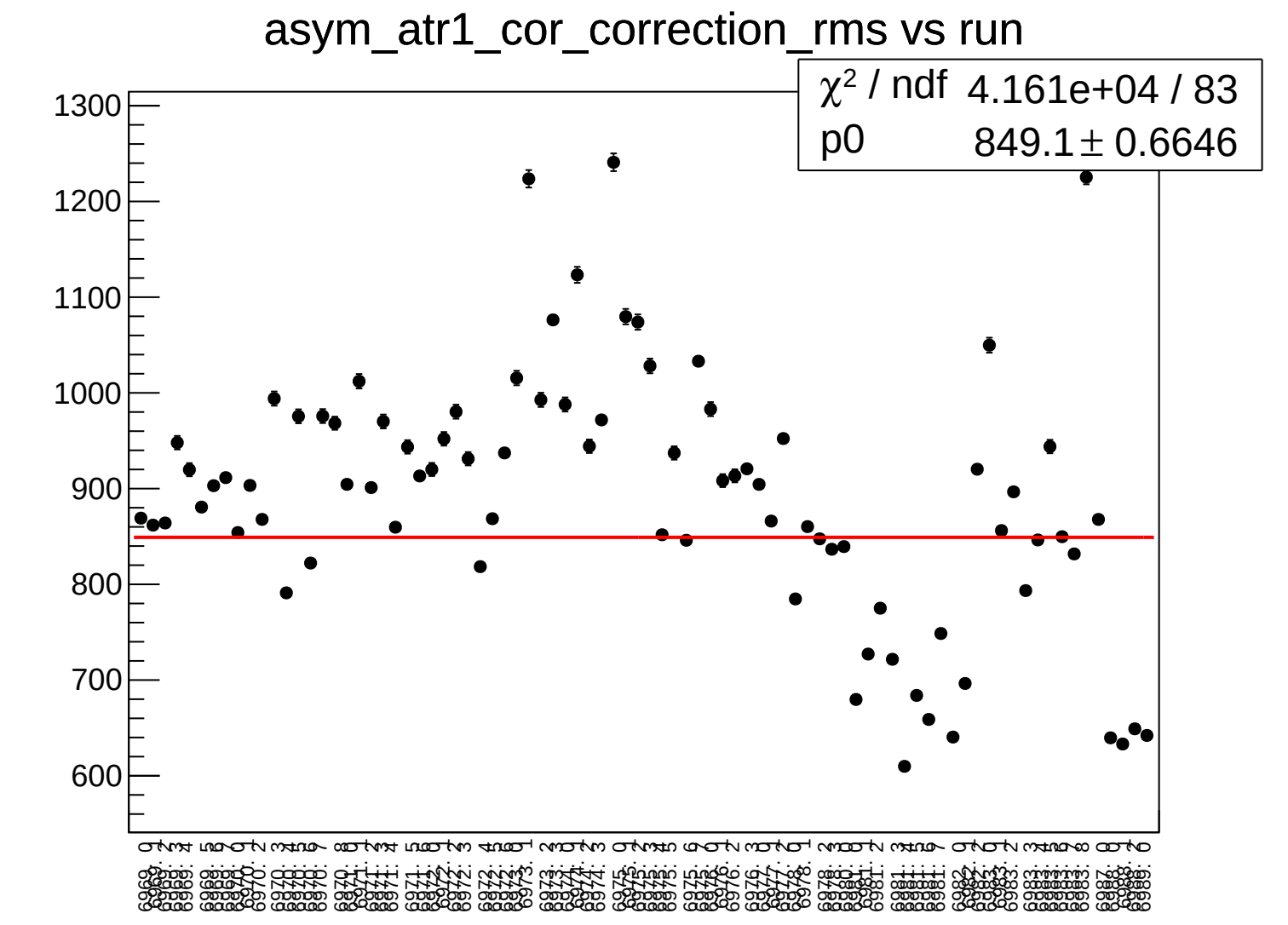

asym_atr1_reg_correction_rms vs run
χ² / ndf 4.162e+04 / 83
p0 849.1 ± 0.6646
1300
1200
1100
1000
900
800
700
600

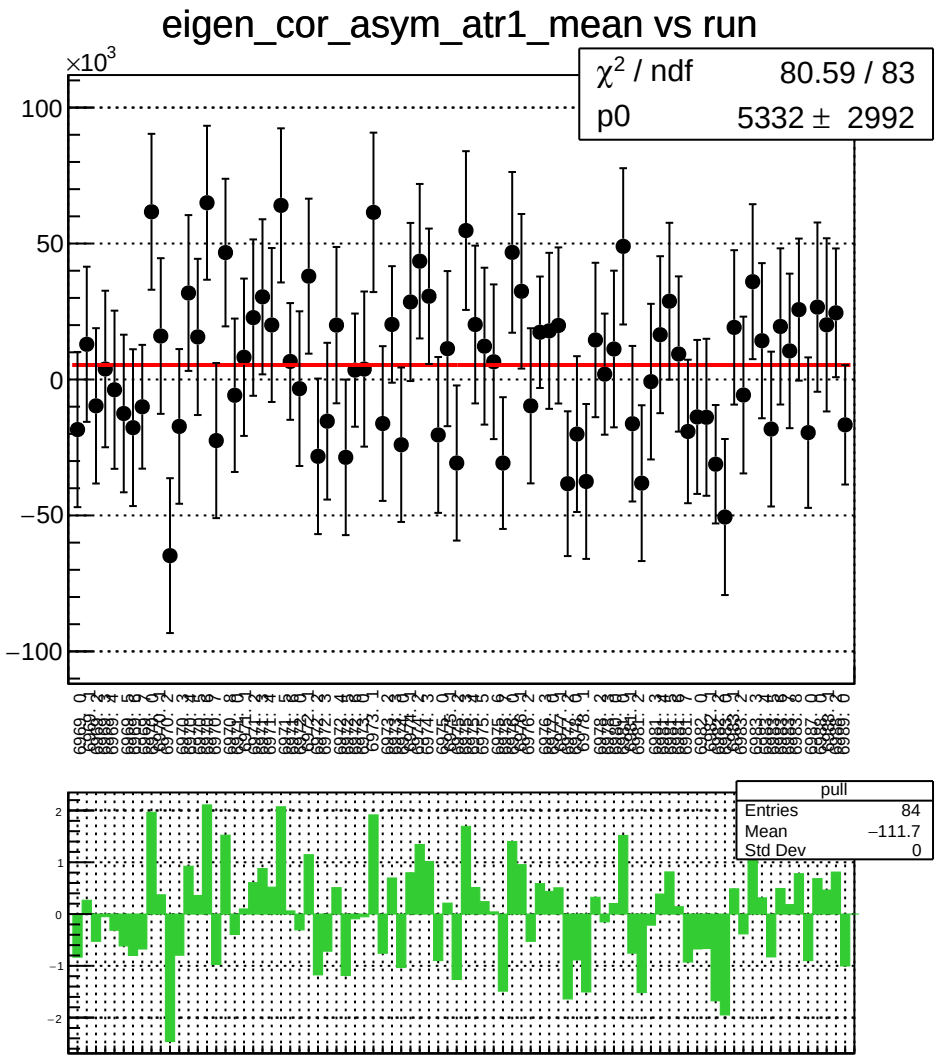

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 80.59 / 83
p0 5332 ± 2992
100
50
0
−50
−100
pull
Entries 84
Mean −111.7
Std Dev 0
2
1
0
−1
−2

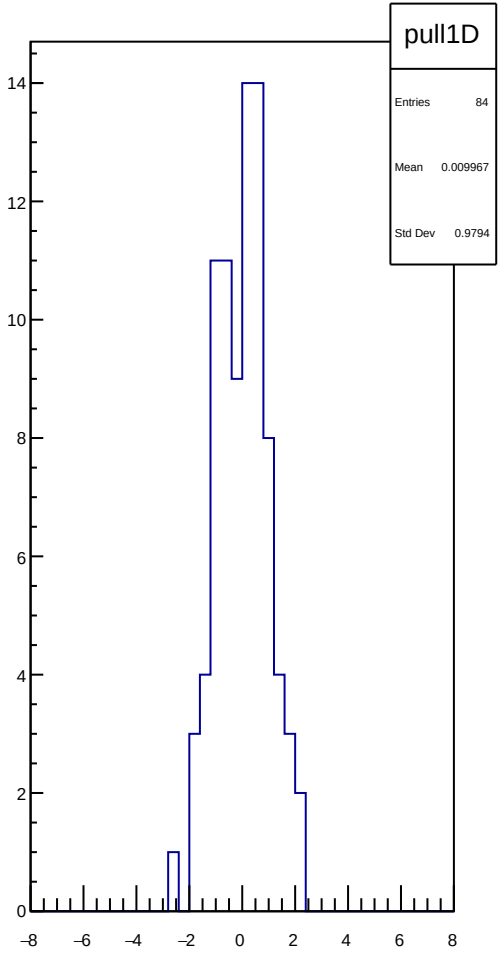

pull1D
Entries 84
Mean 0.009967
Std Dev 0.9794
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

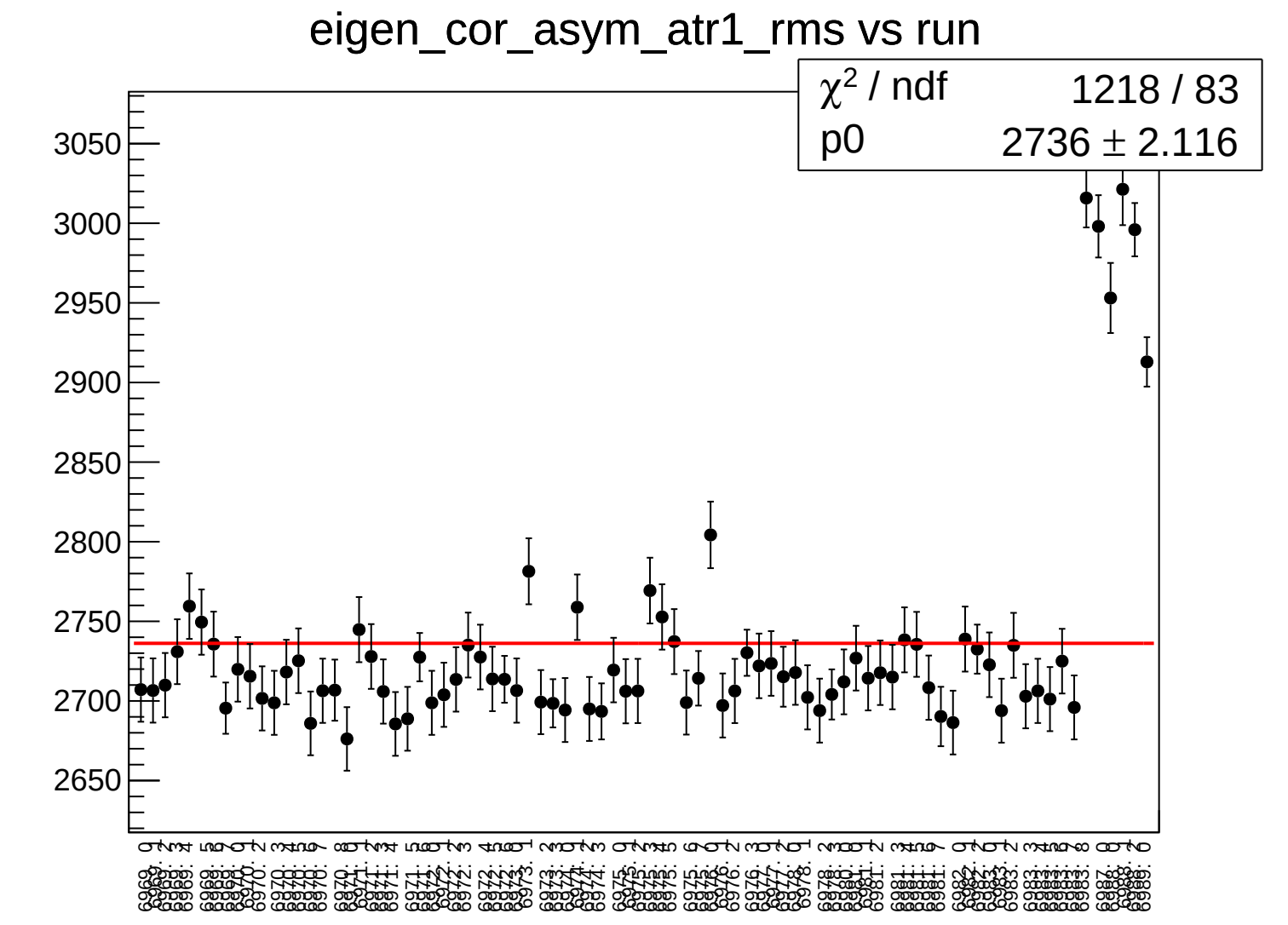

cor_asym_atr1_rms vs run
χ² / ndf 1218 / 83
p0 2736 ± 2.116
3050
3000
2950
2900
2850
2800
2750
2700
2650

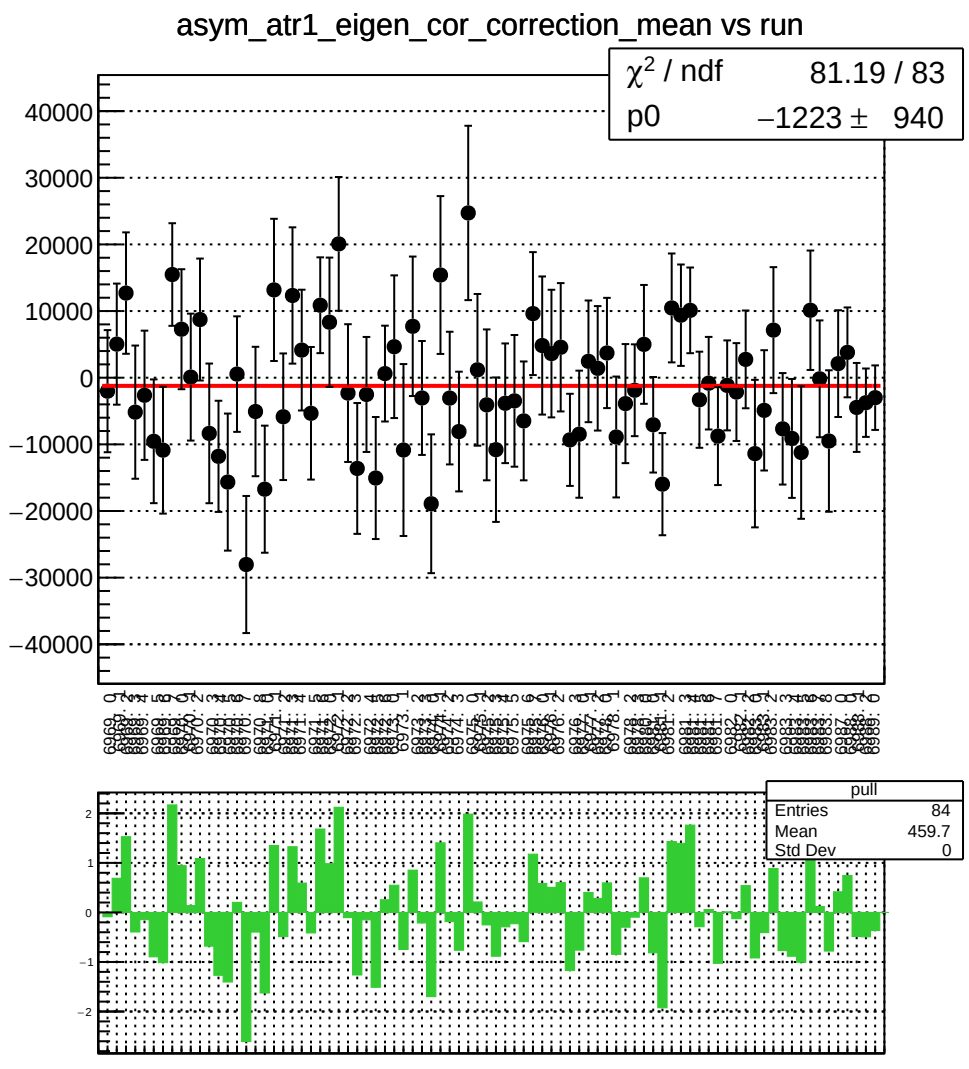

asym_atr1_cor_correction_mean vs run
χ² / ndf 81.19 / 83
p0 −1223 ± 940
pull
Entries 84
Mean 459.7
Std Dev 0
pull1D
Entries 84
Mean −0.002508
Std Dev 0.9832

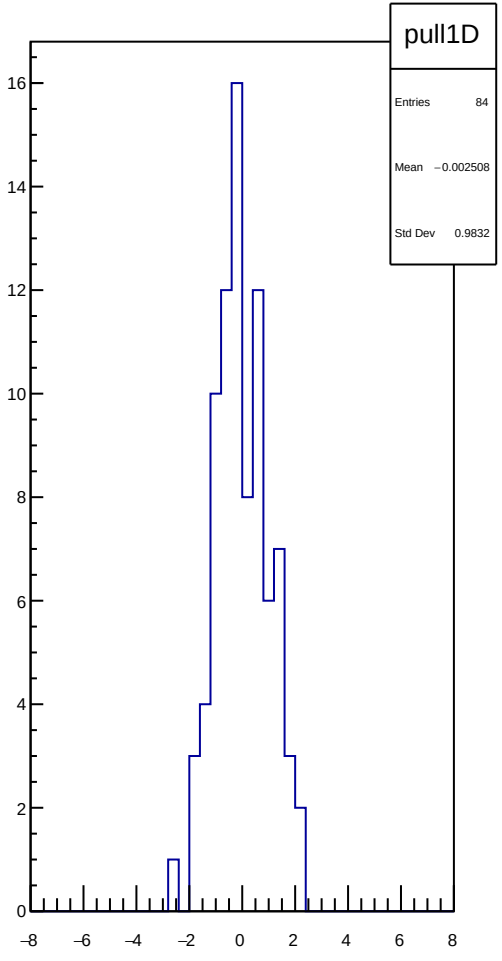

asym_atr1_cor_correction_rms vs run
χ² / ndf 4.161e+04 / 83
p0 849.1 ± 0.6646
1300
1200
1100
1000
900
800
700
600

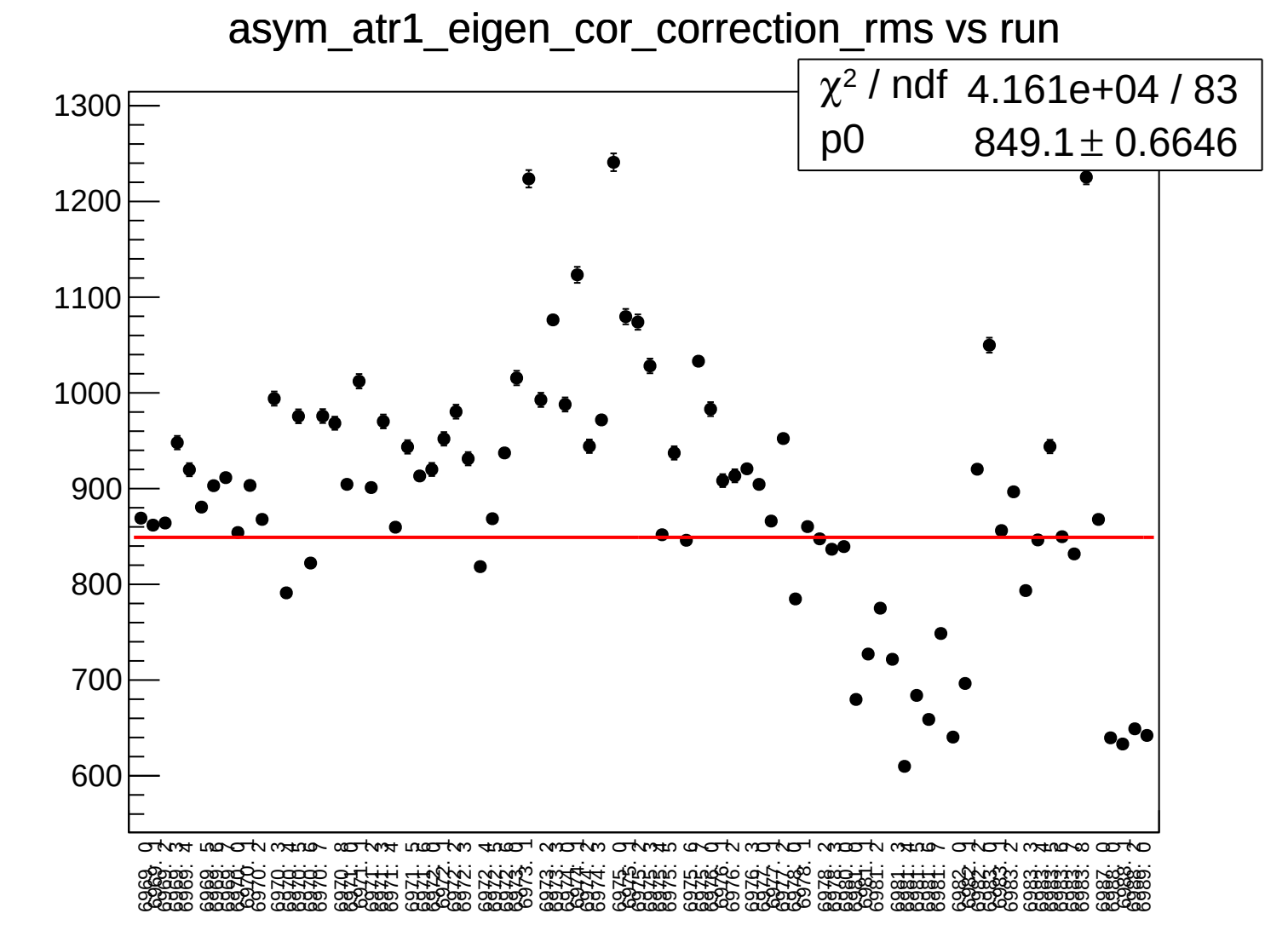

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 80.59 / 83
p0 5332 ± 2992
100
50
0
−50
−100
pull
Entries 84
Mean −111.7
Std Dev 0
2
1
0
−1
−2

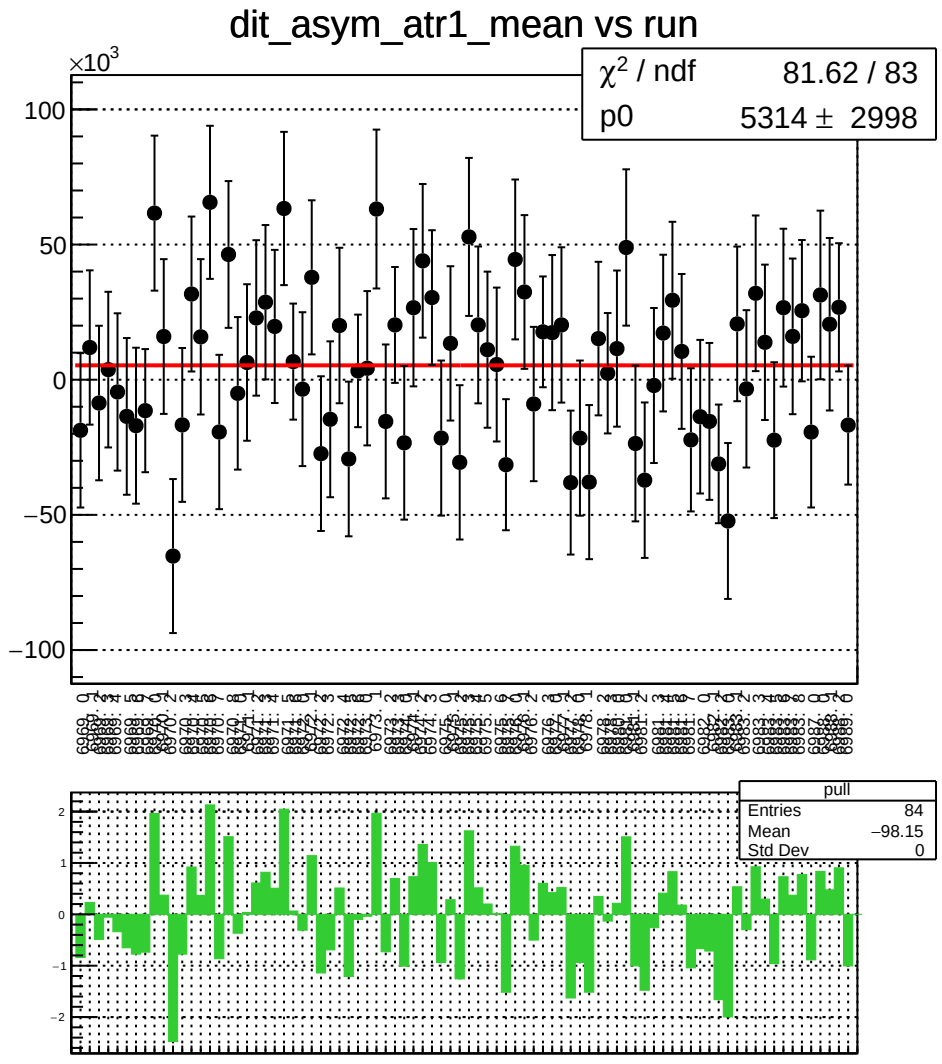

pull1D
Entries 84
Mean 0.009967
Std Dev 0.9794
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

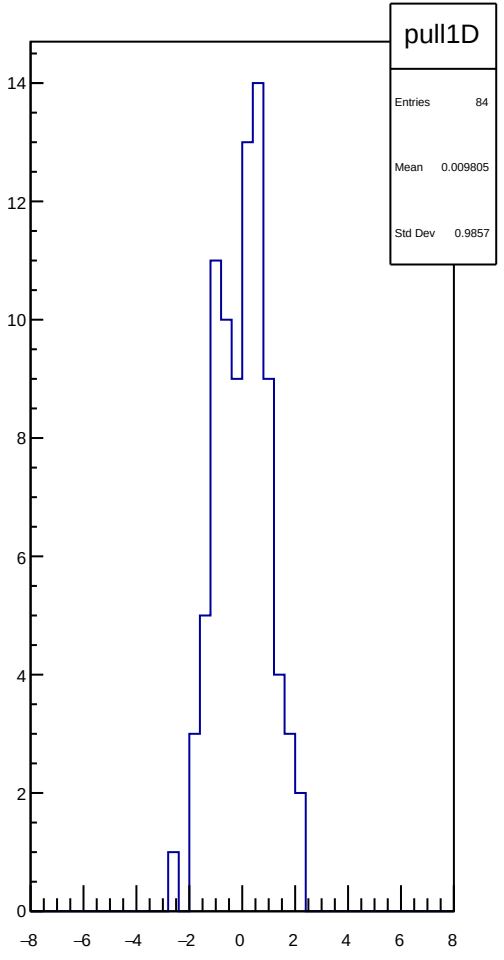

eigen_cor_asym_atr1_rms vs run
χ² / ndf 1218 / 83
p0 2736 ± 2.116
3050
3000
2950
2900
2850
2800
2750
2700
2650

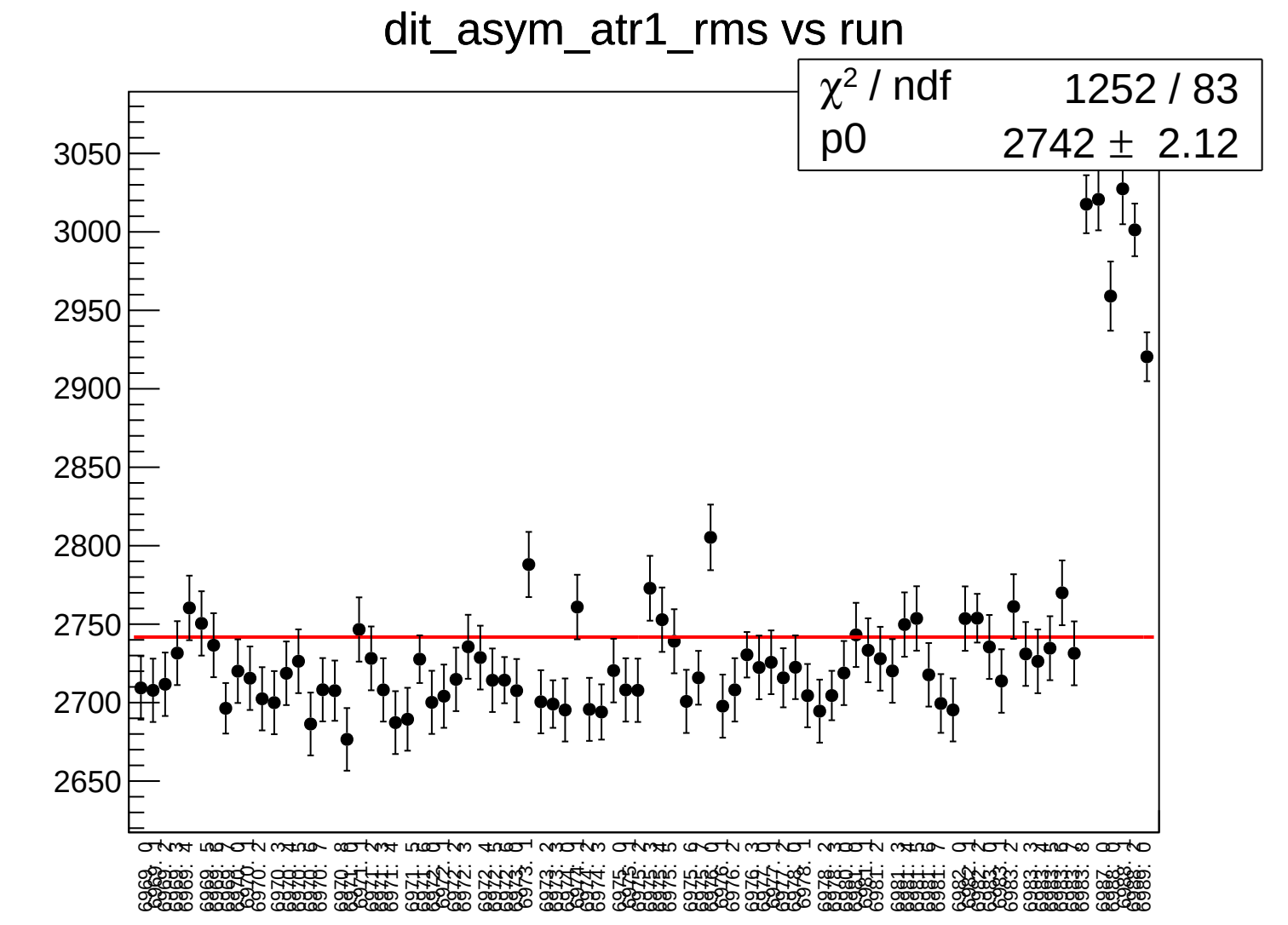

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 81.19 / 83
p0 −1223 ± 940
pull
Entries 84
Mean 459.7
Std Dev 0

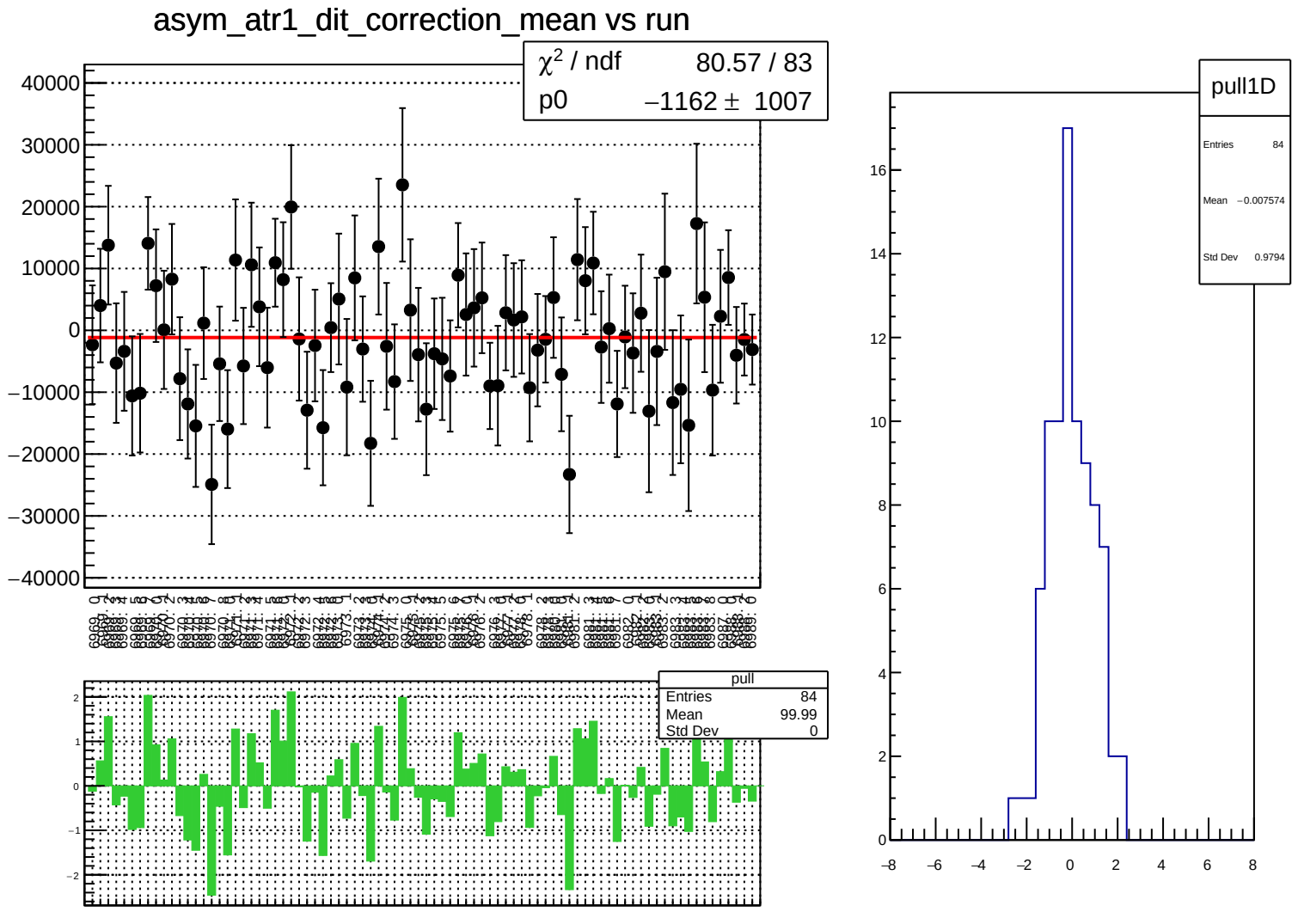

pull1D
Entries 84
Mean −0.002508
Std Dev 0.9832

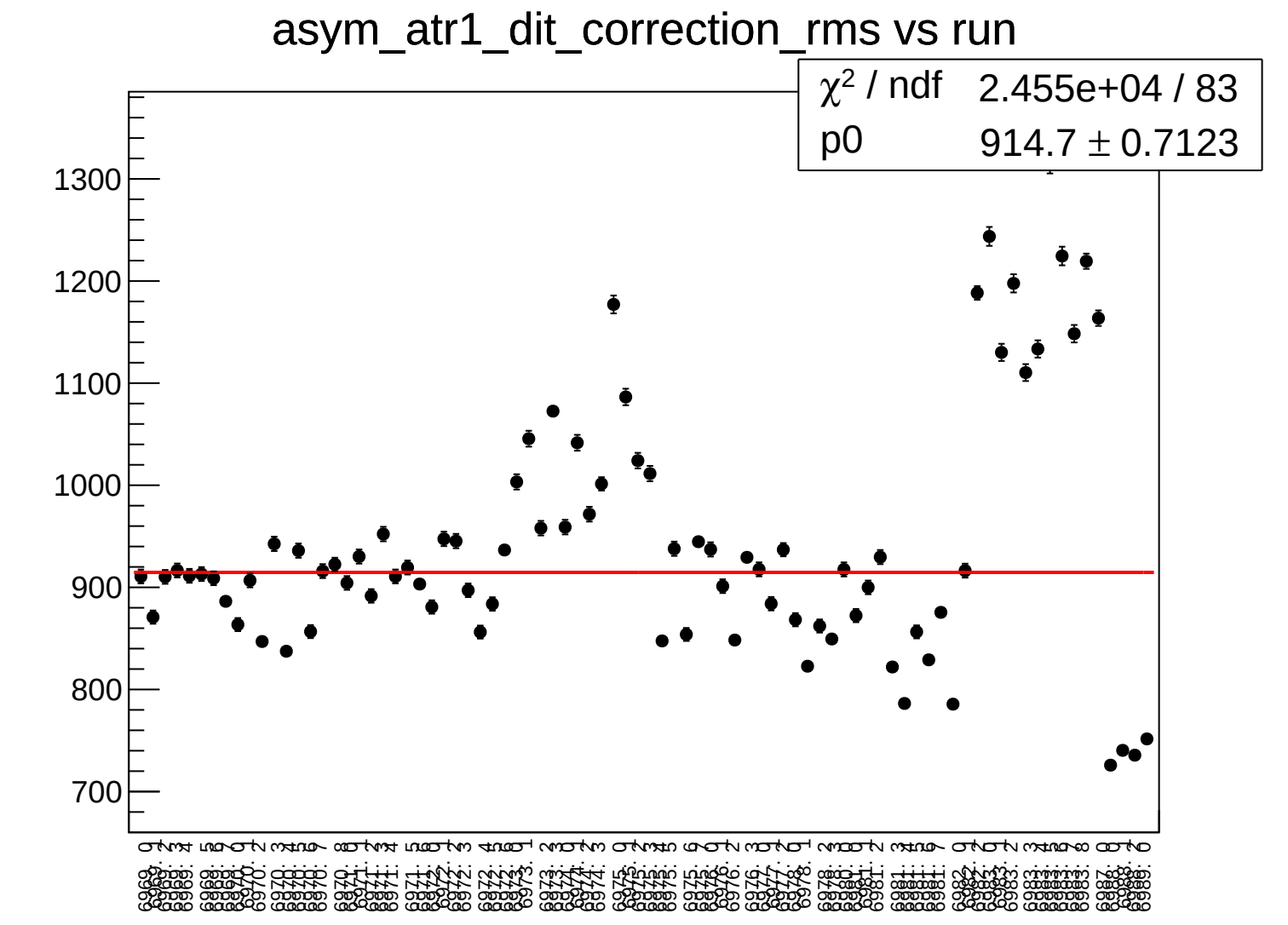

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 4.161e+04 / 83
p0 849.1 ± 0.6646
1300
1200
1100
1000
900
800
700
600

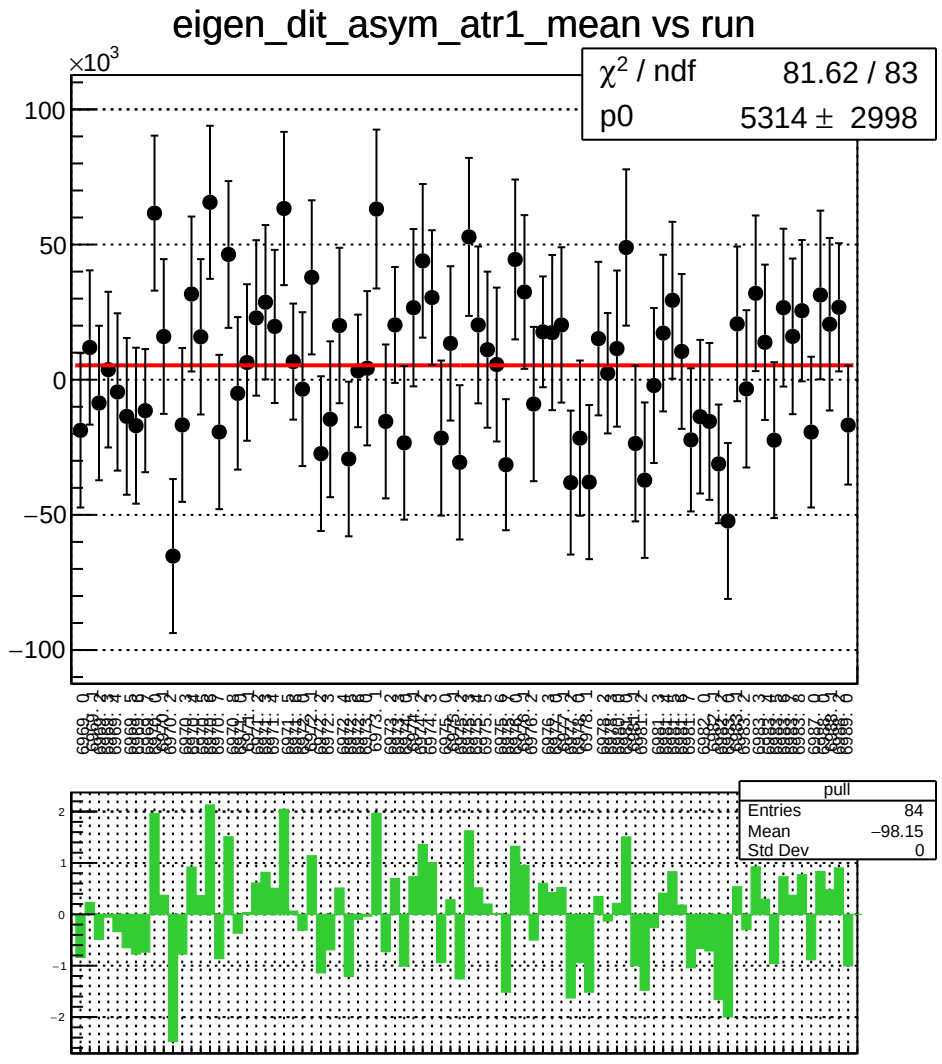

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 81.62 / 83
p0 5314 ± 2998
100
50
0
−50
−100
pull
Entries 84
Mean −98.15
Std Dev 0
2
1
0
−1
−2

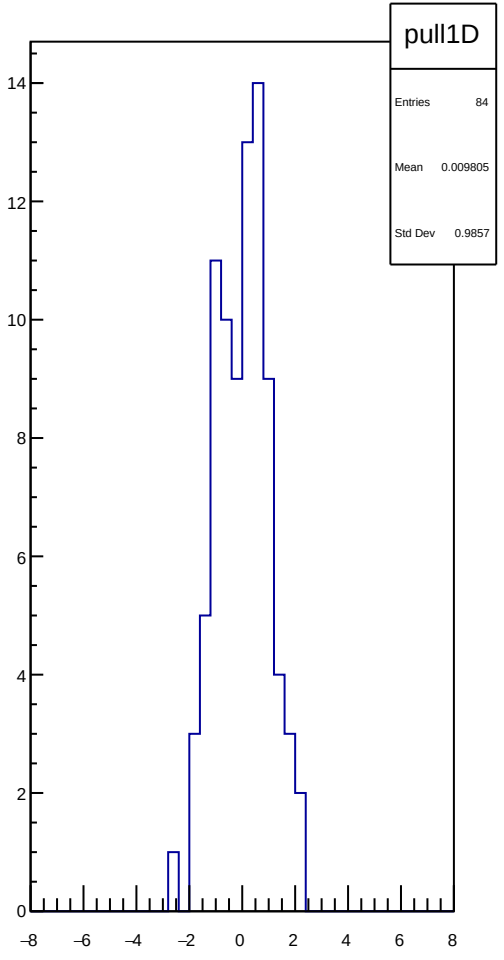

pull1D
Entries 84
Mean 0.009805
Std Dev 0.9857
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

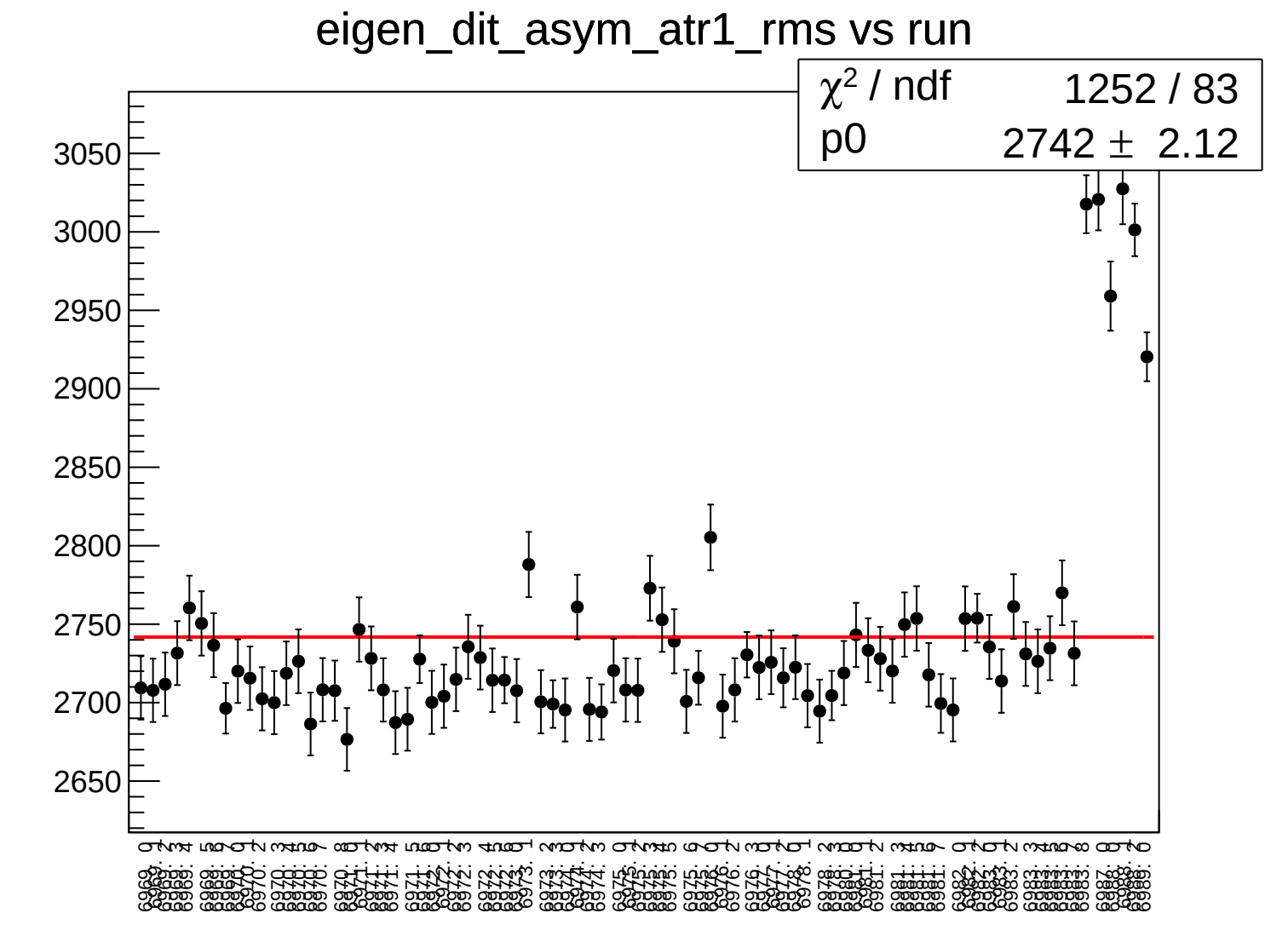

dit_asym_atr1_rms vs run
χ² / ndf 1252 / 83
p0 2742 ± 2.12
3050
3000
2950
2900
2850
2800
2750
2700
2650

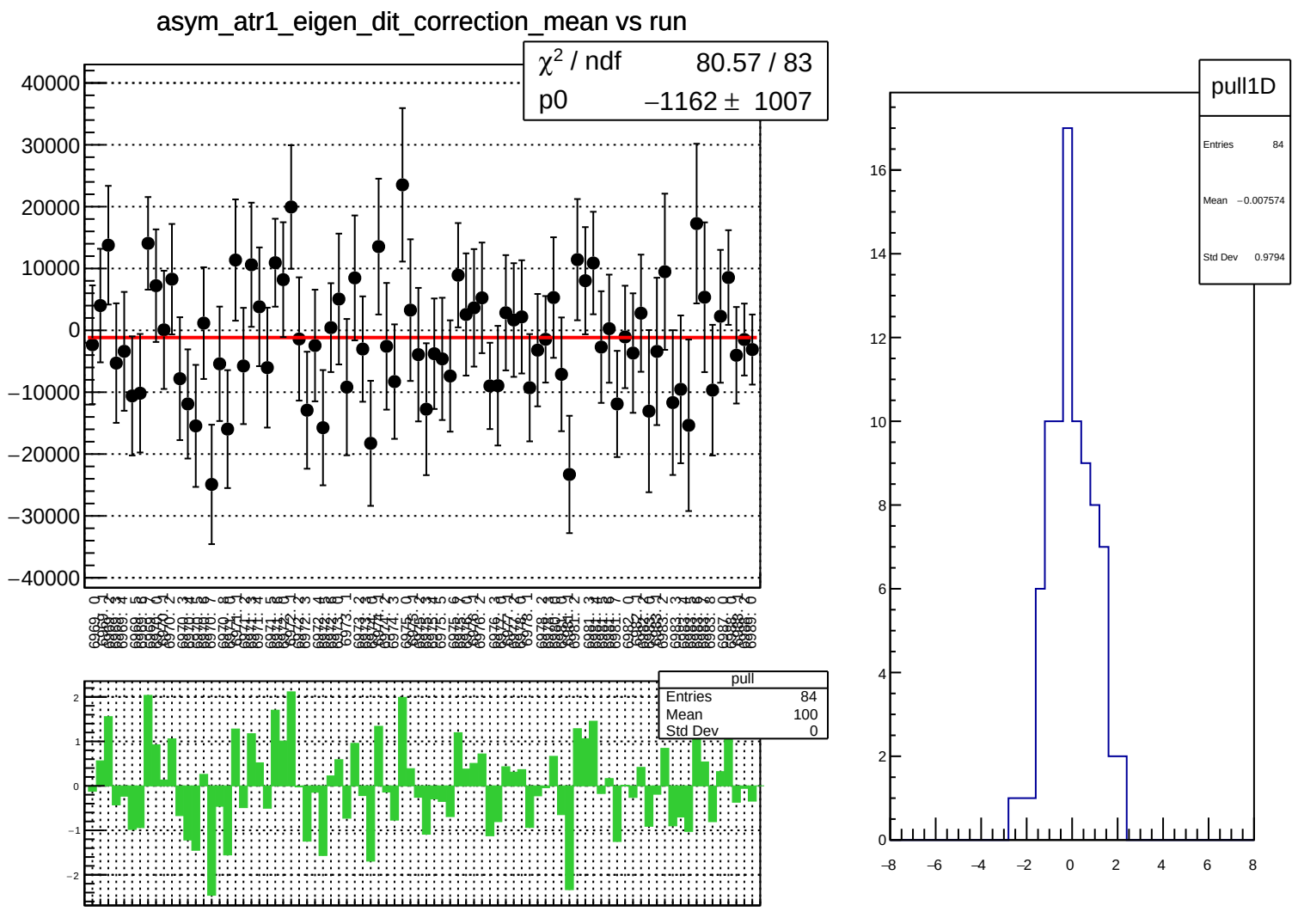

asym_atr1_dit_correction_mean vs run
χ² / ndf 80.57 / 83
p0 −1162 ± 1007
pull
Entries 84
Mean 99.99
Std Dev 0
pull1D
Entries 84
Mean −0.007574
Std Dev 0.9794

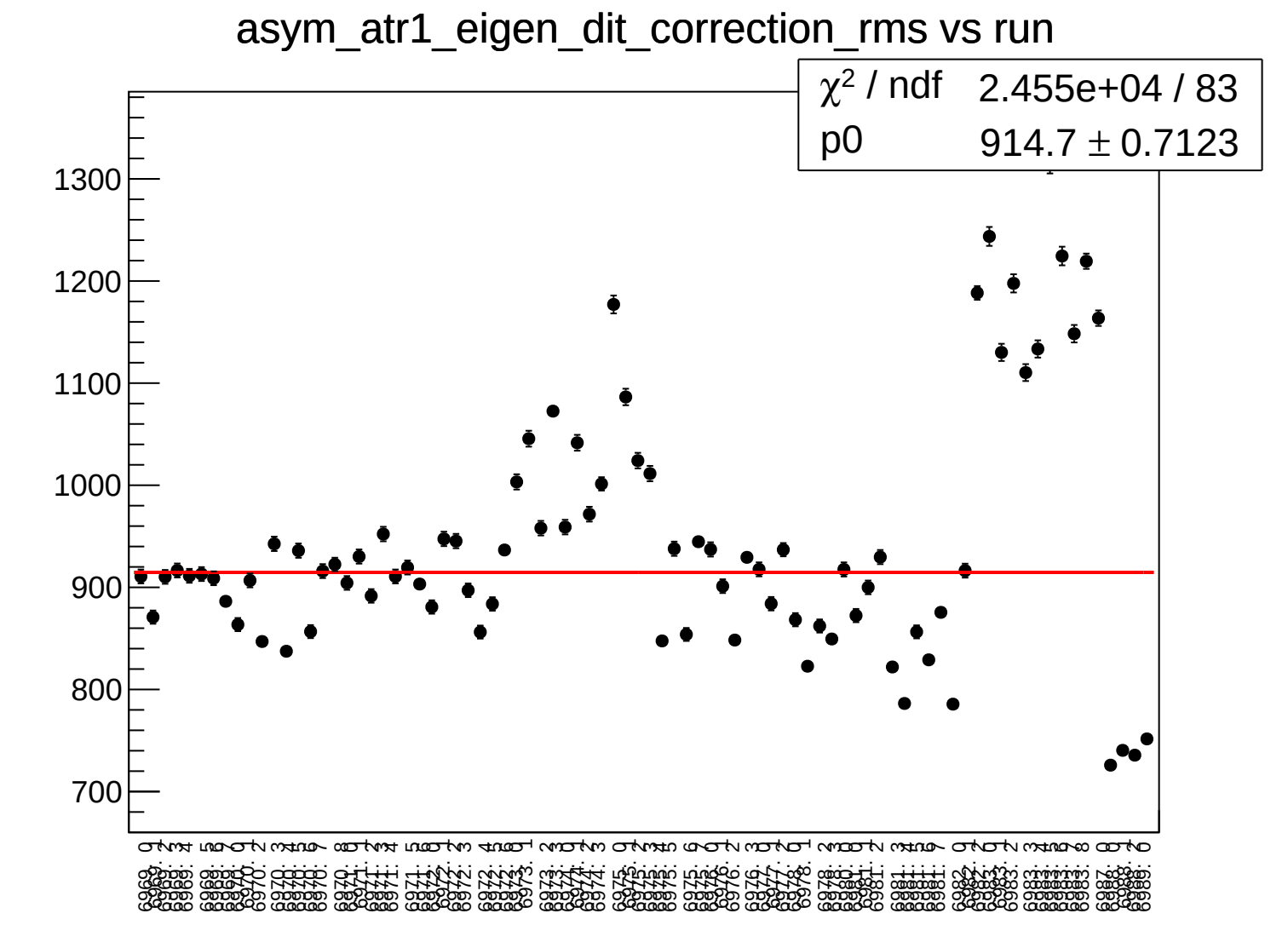

asym_atr1_dit_correction_rms vs run
χ² / ndf 2.455e+04 / 83
p0 914.7 ± 0.7123
1300
1200
1100
1000
900
800
700

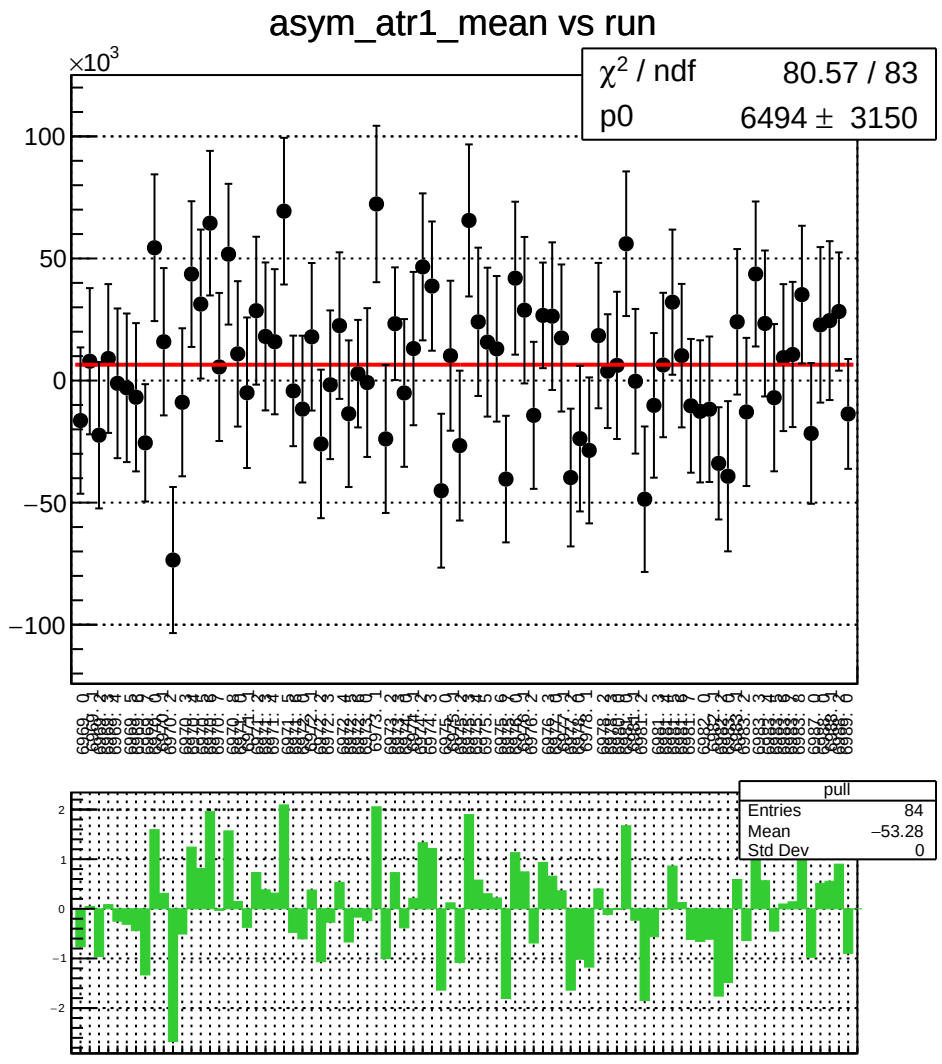

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 81.62 / 83
p0 5314 ± 2998
100
50
0
−50
−100
pull
Entries 84
Mean −98.15
Std Dev 0
2
1
0
−1
−2

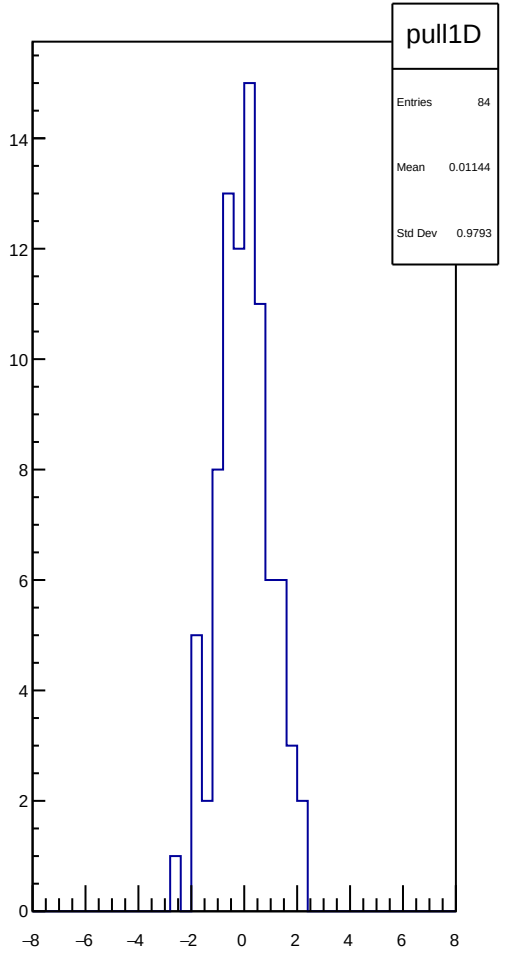

pull1D
Entries 84
Mean 0.009805
Std Dev 0.9857
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

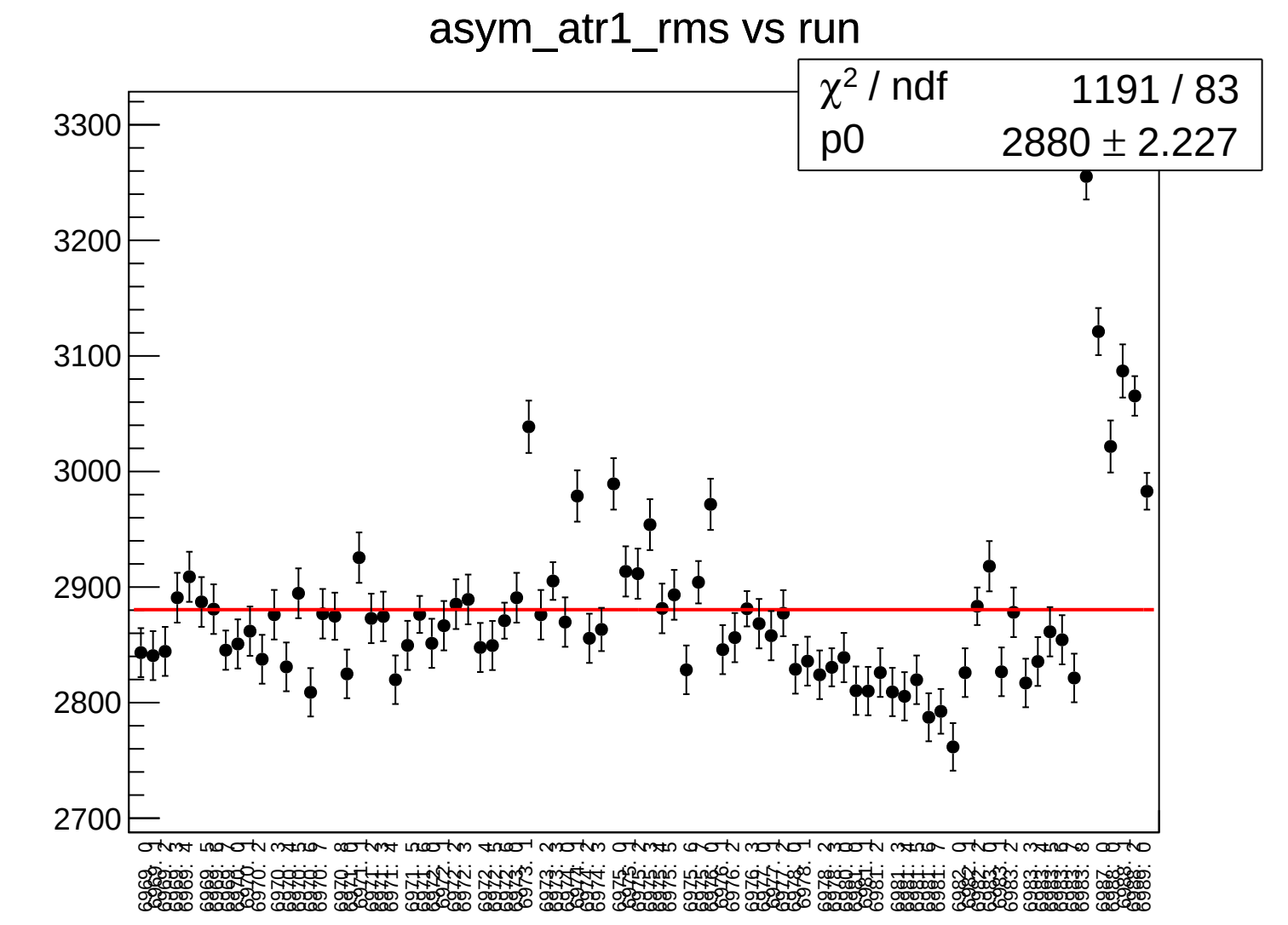

eigen_dit_asym_atr1_rms vs run
χ² / ndf 1252 / 83
p0 2742 ± 2.12
3050
3000
2950
2900
2850
2800
2750
2700
2650

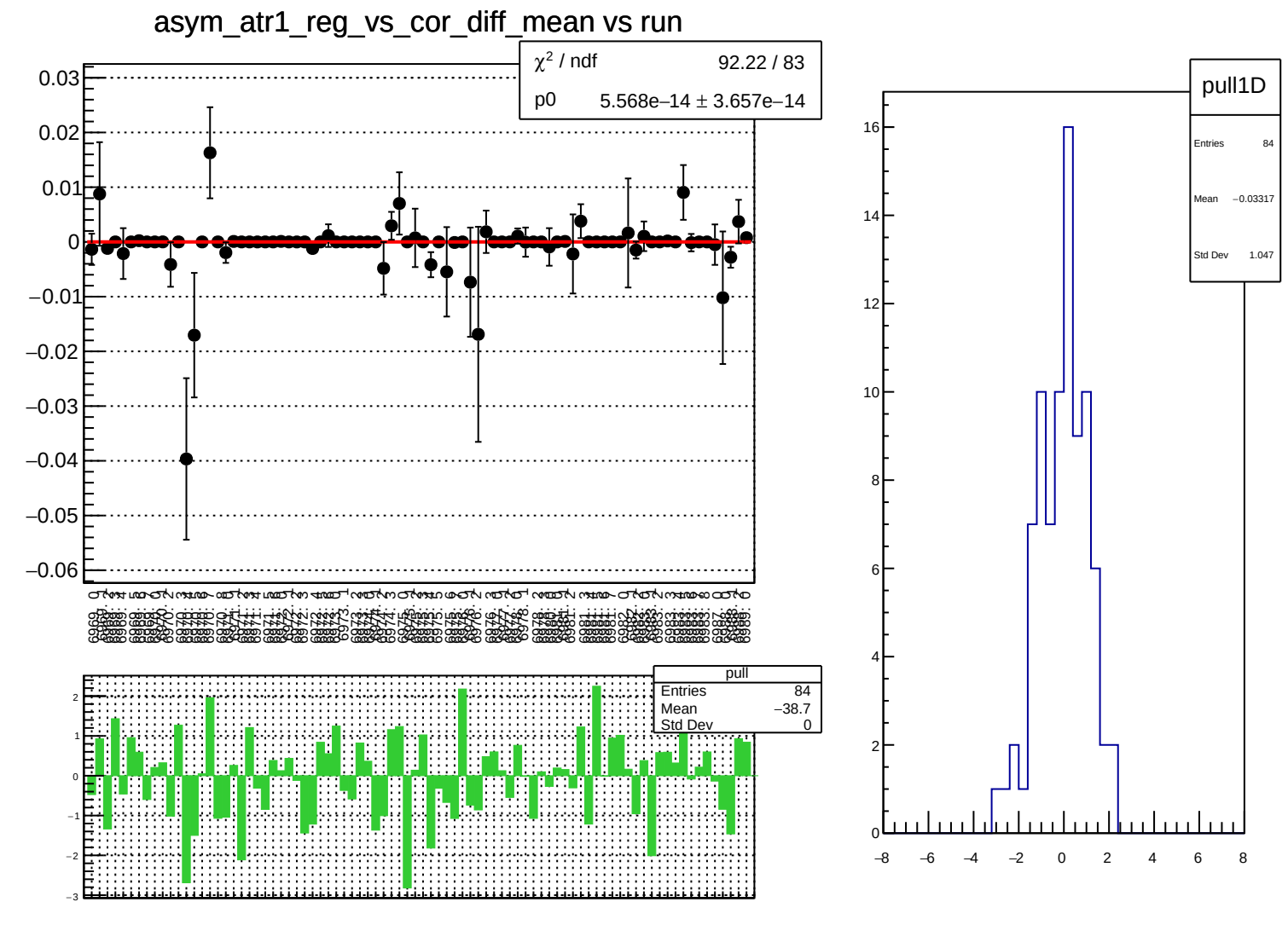

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 80.57 / 83
p0 −1162 ± 1007
pull
Entries 84
Mean 100
Std Dev 0
pull1D
Entries 84
Mean −0.007574
Std Dev 0.9794

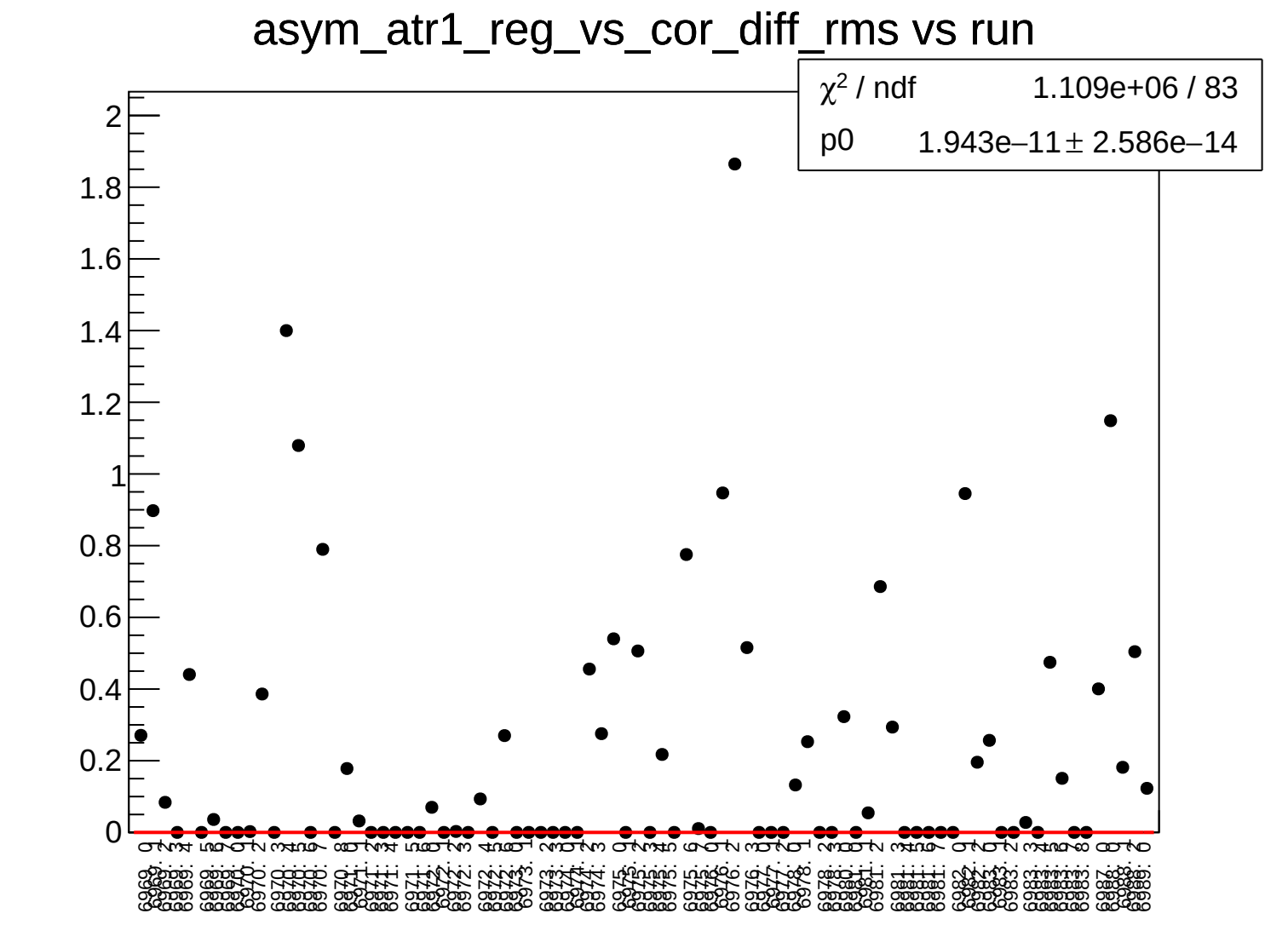

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2.455e+04 / 83
p0 914.7 ± 0.7123
1300
1200
1100
1000
900
800
700

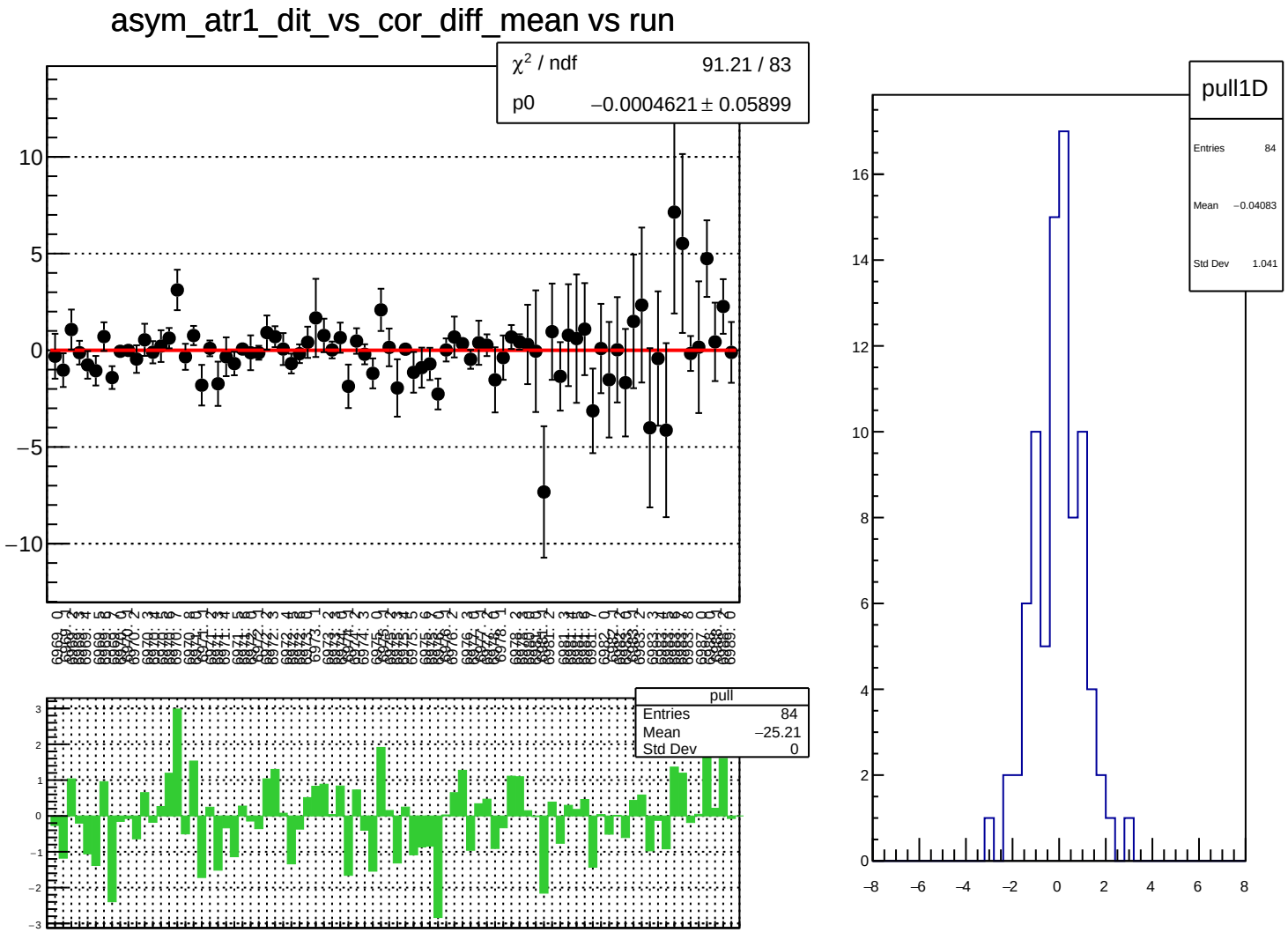

asym_atr1_mean vs run
×10^3
χ² / ndf 80.57 / 83
p0 6494 ± 3150
100
50
0
−50
−100
pull
Entries 84
Mean −53.28
Std Dev 0
2
1
0
−1
−2

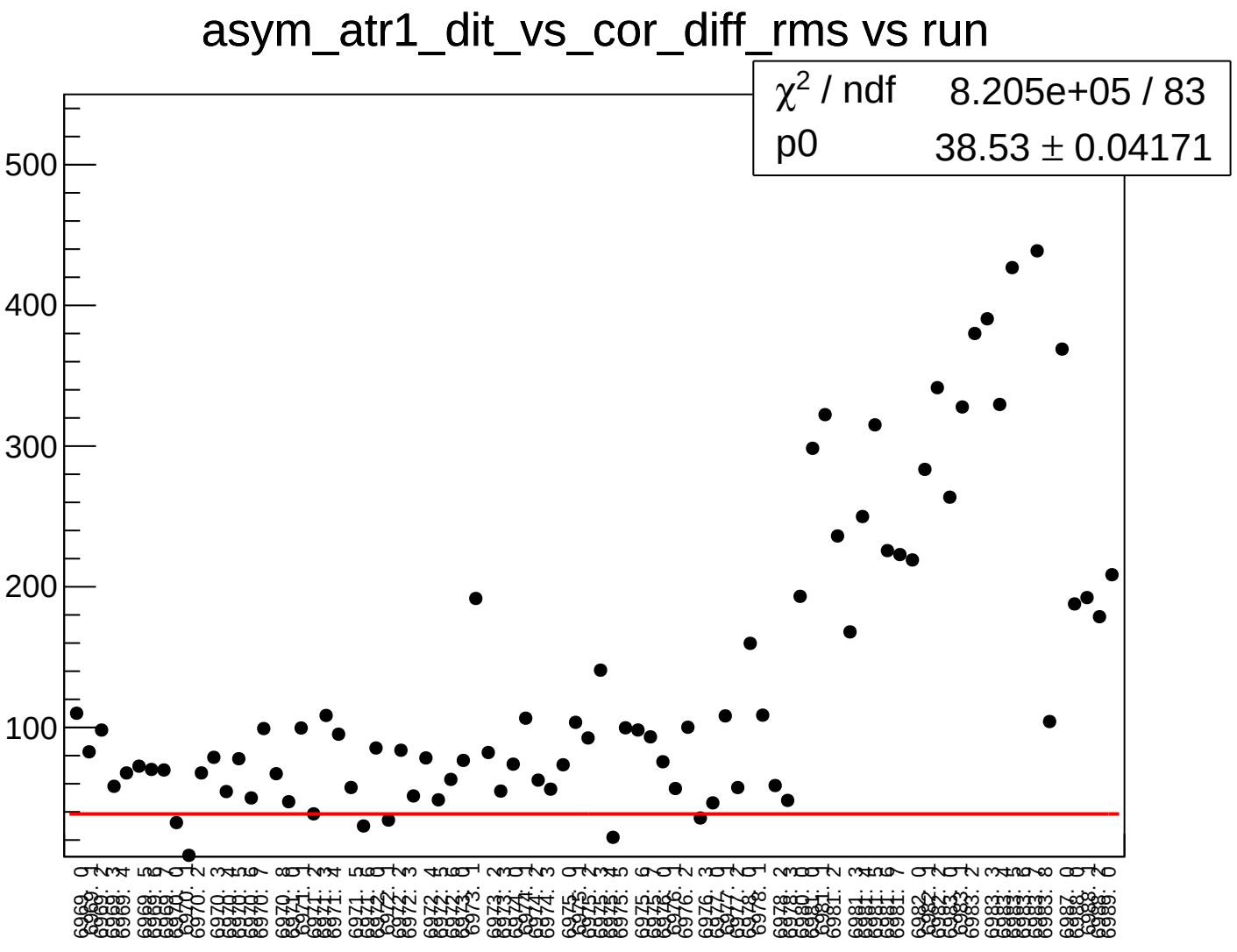

pull1D
Entries 84
Mean 0.01144
Std Dev 0.9793
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

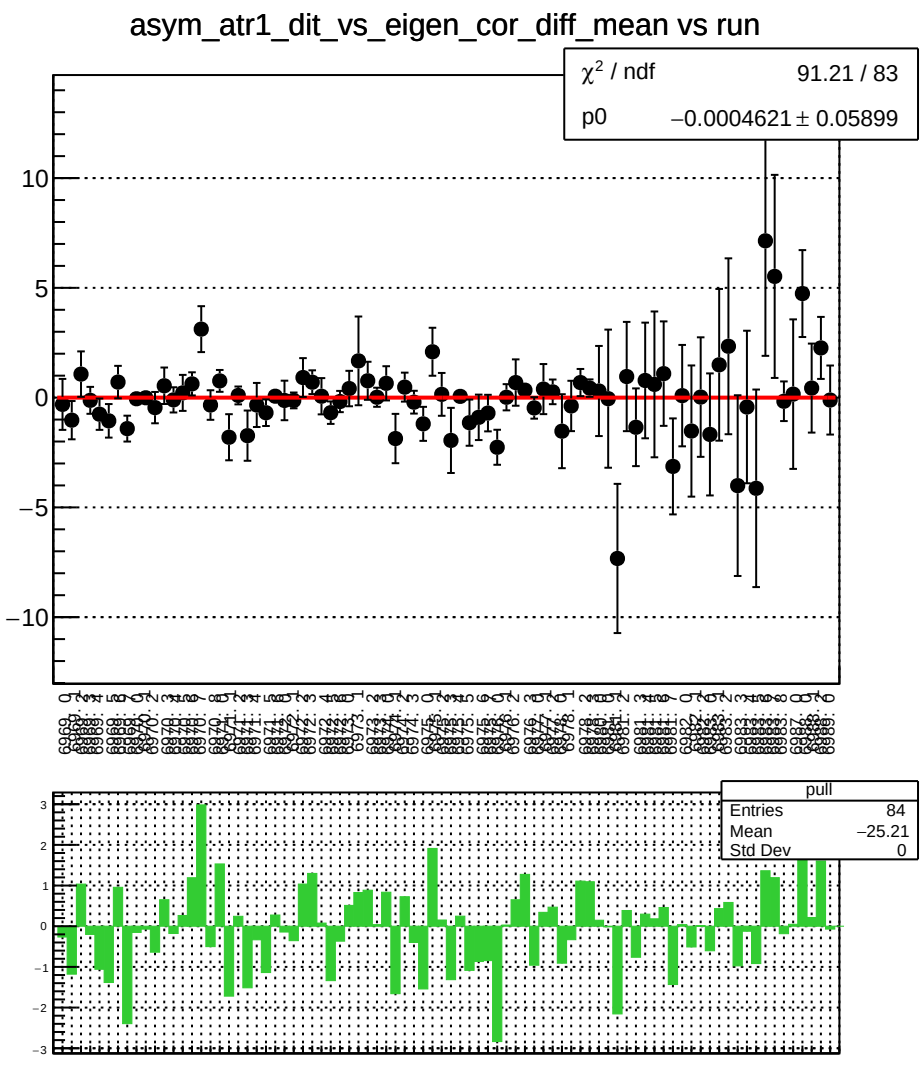

asym_atr1_rms vs run
χ^2 / ndf 1191 / 83
p0 2880 ± 2.227
3300
3200
3100
3000
2900
2800
2700

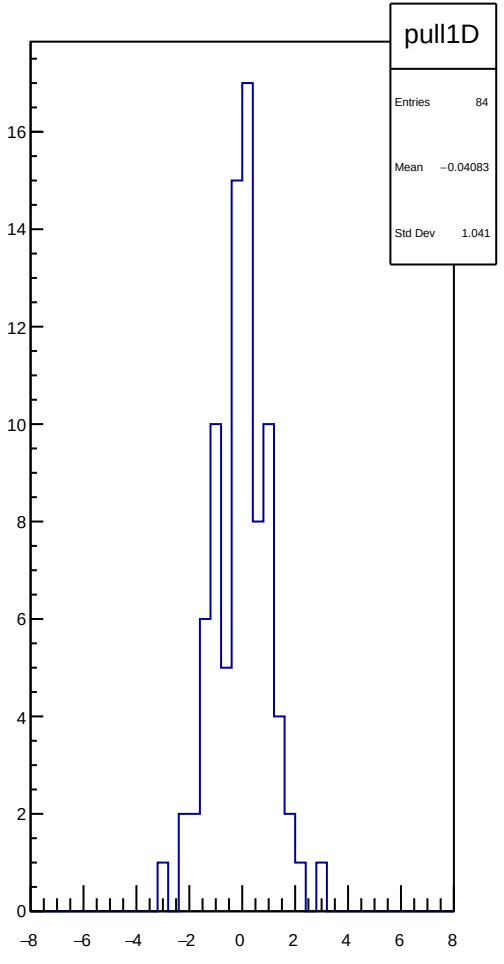

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 92.22 / 83
p0 5.568e−14 ± 3.657e−14
pull
Entries 84
Mean −38.7
Std Dev 0
pull1D
Entries 84
Mean −0.03317
Std Dev 1.047

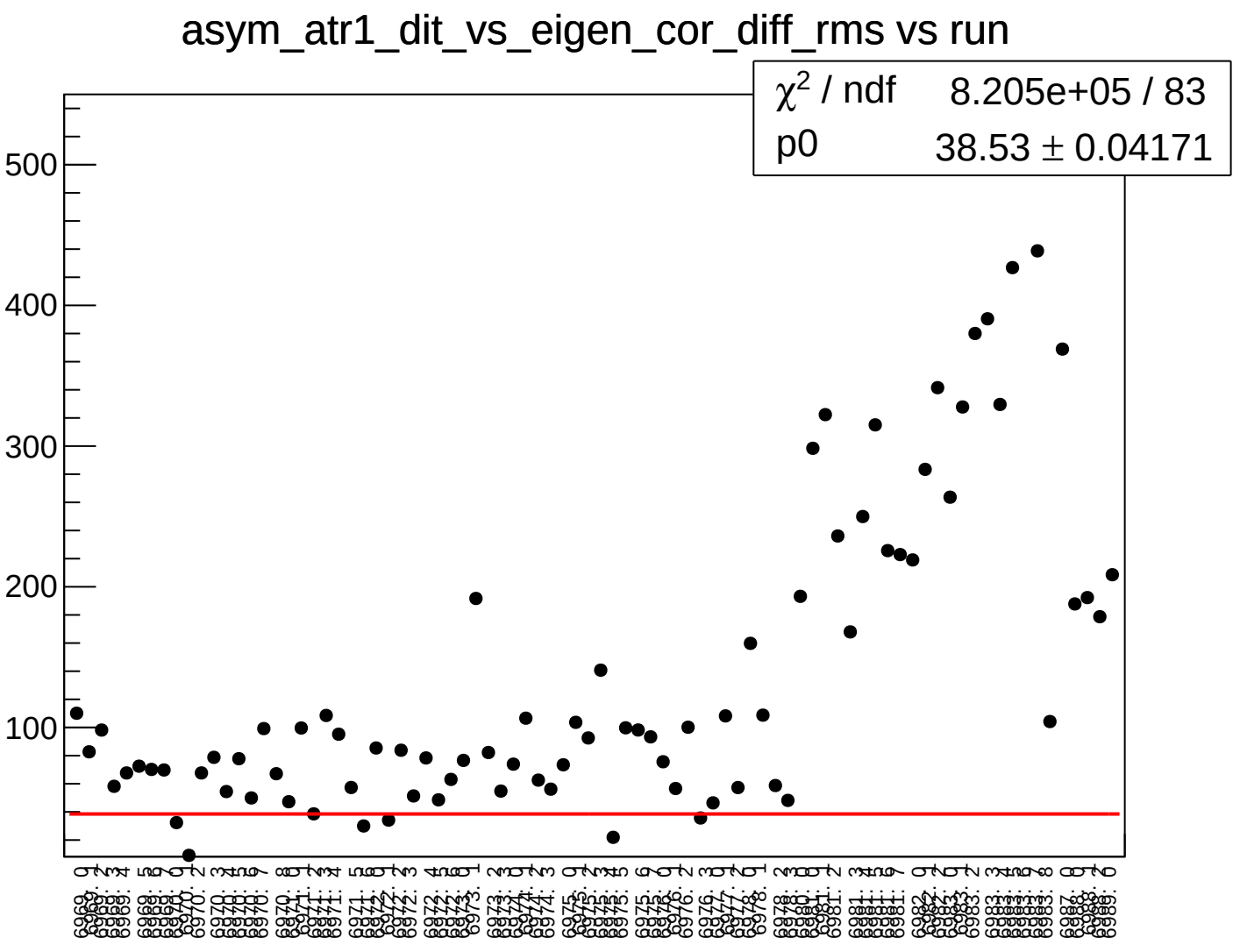

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.109e+06 / 83
p0 1.943e−11 ± 2.586e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

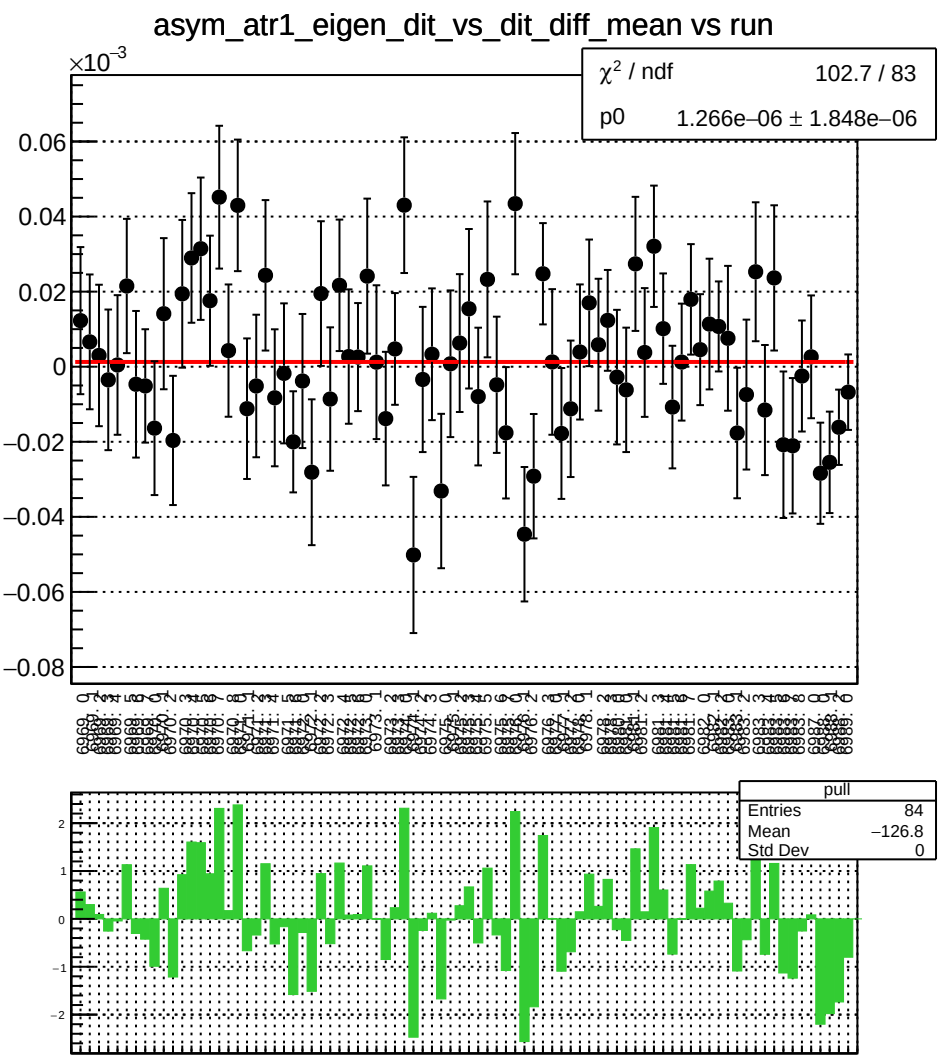

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 91.21 / 83
p0 −0.0004621 ± 0.05899
pull
Entries 84
Mean −25.21
Std Dev 0
pull1D
Entries 84
Mean −0.04083
Std Dev 1.041

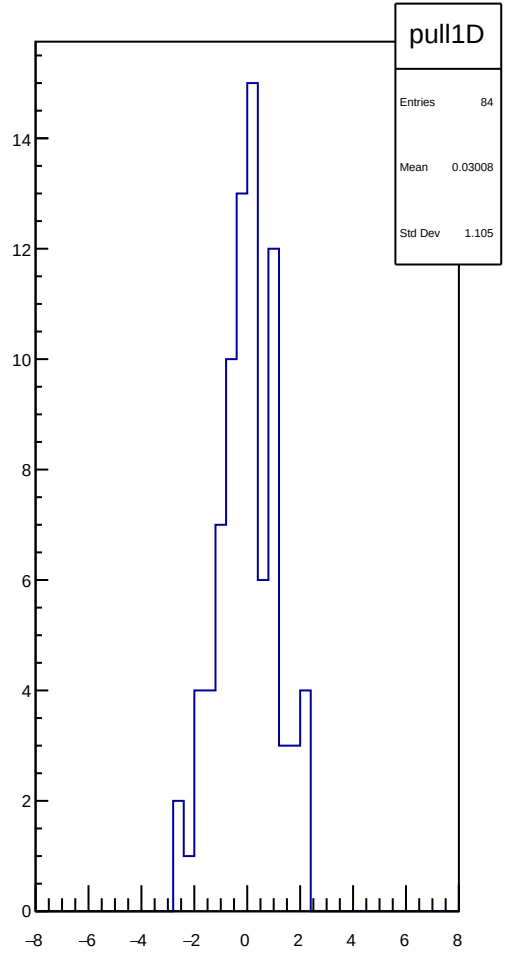

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 8.205e+05 / 83
p0 38.53 ± 0.04171
500
400
300
200
100

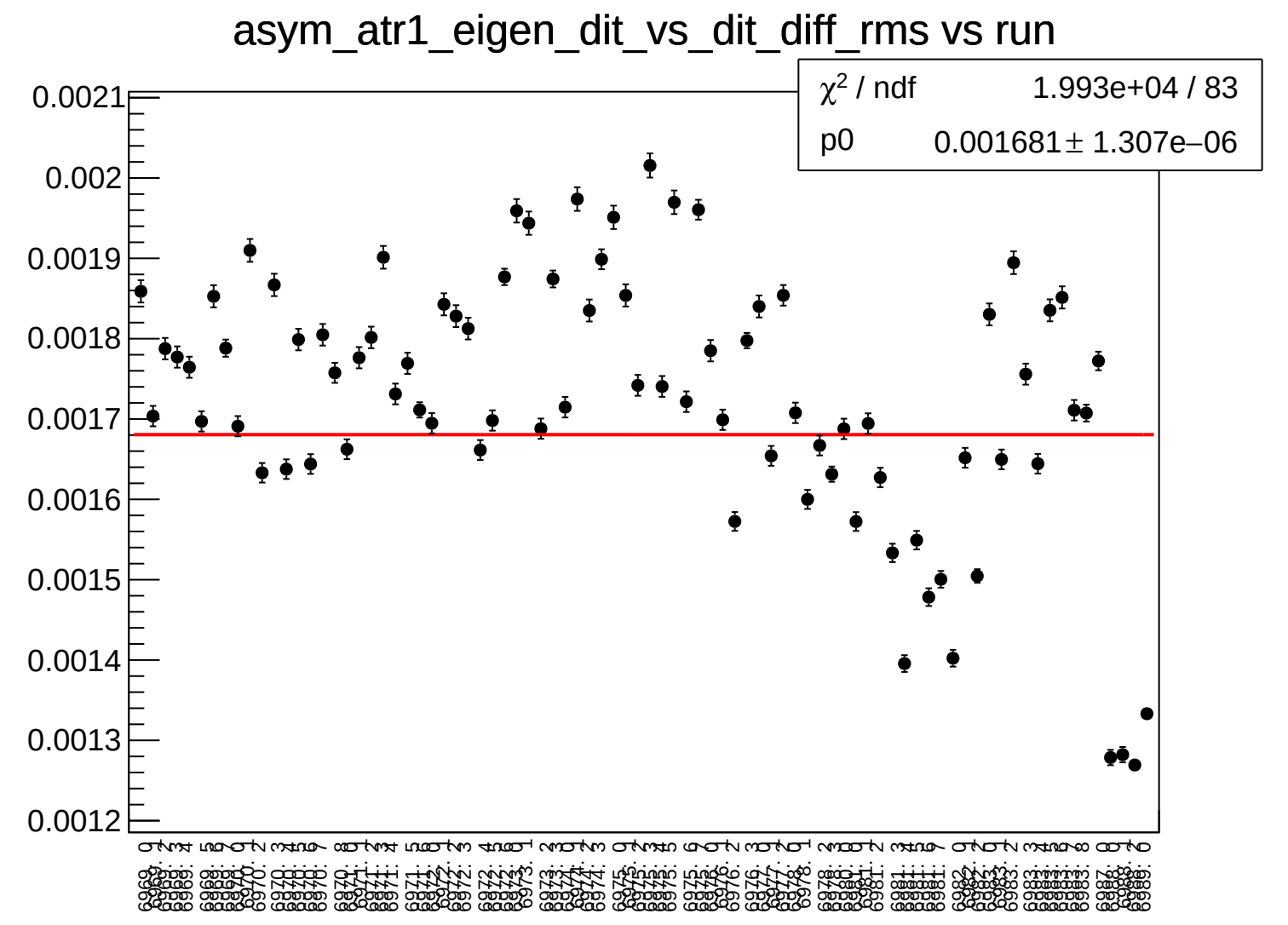

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.21 / 83
p0 −0.0004621 ± 0.05899
pull
Entries 84
Mean −25.21
Std Dev 0

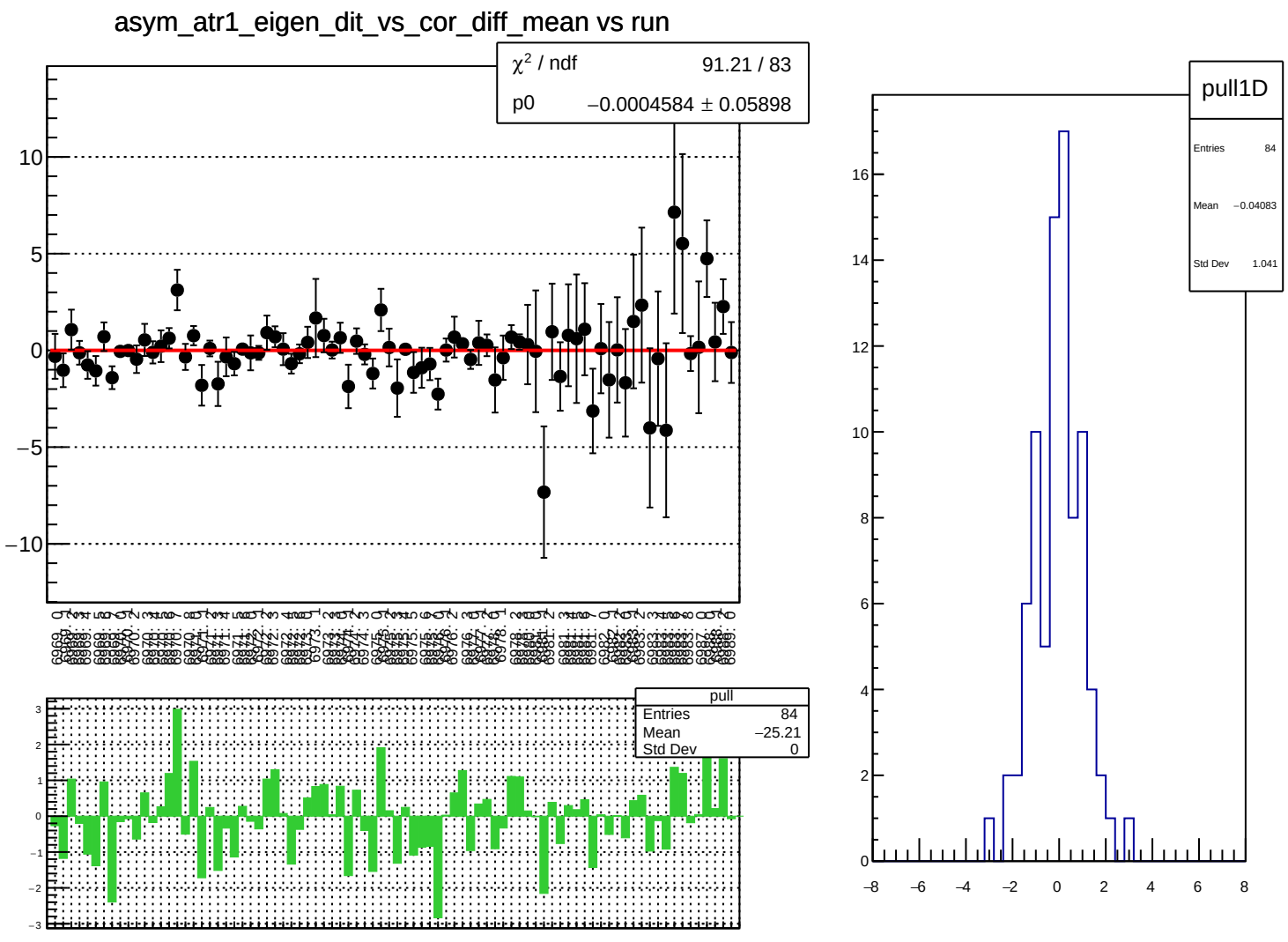

pull1D
Entries 84
Mean −0.04083
Std Dev 1.041

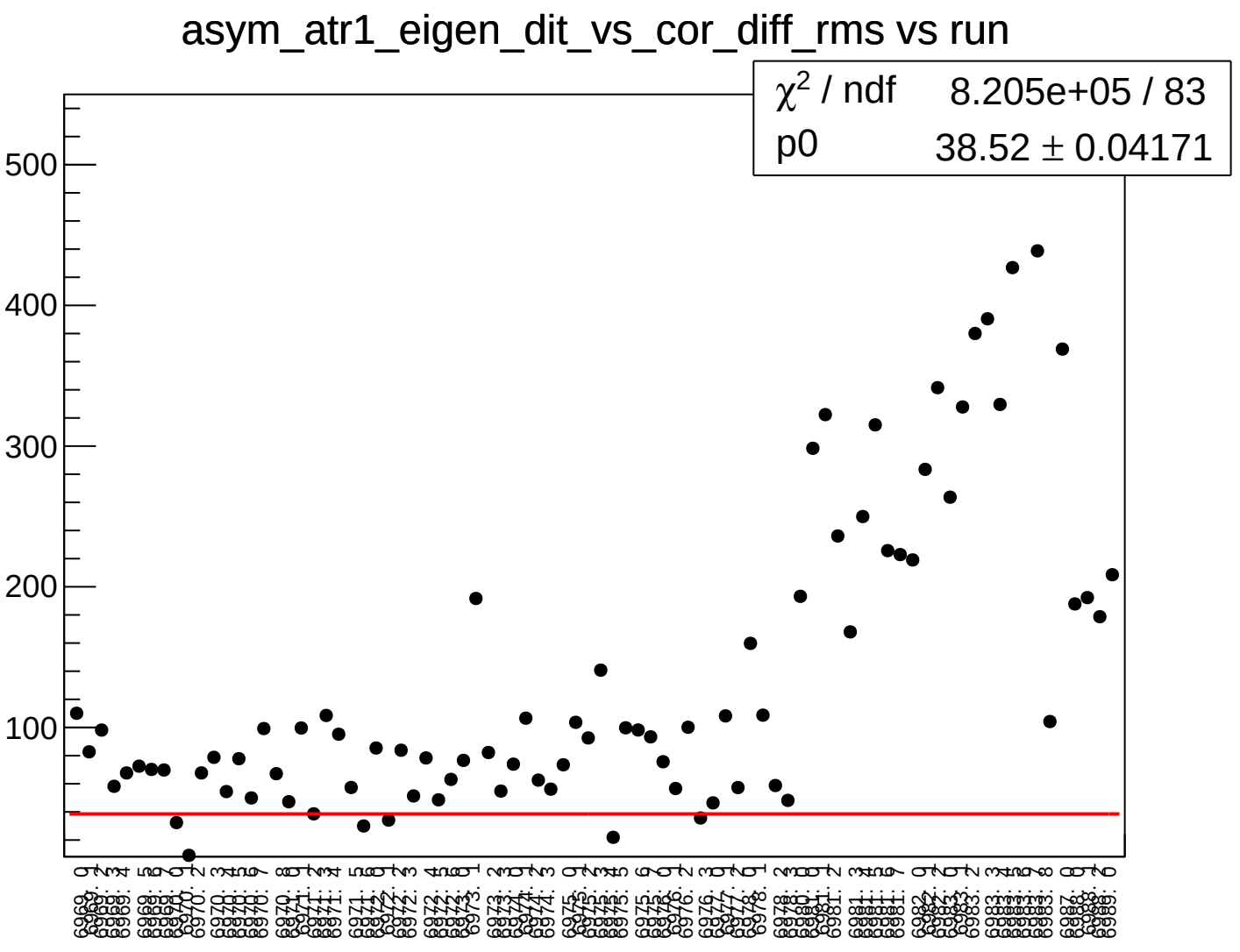

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.205e+05 / 83
p0 38.53 ± 0.04171
500
400
300
200
100

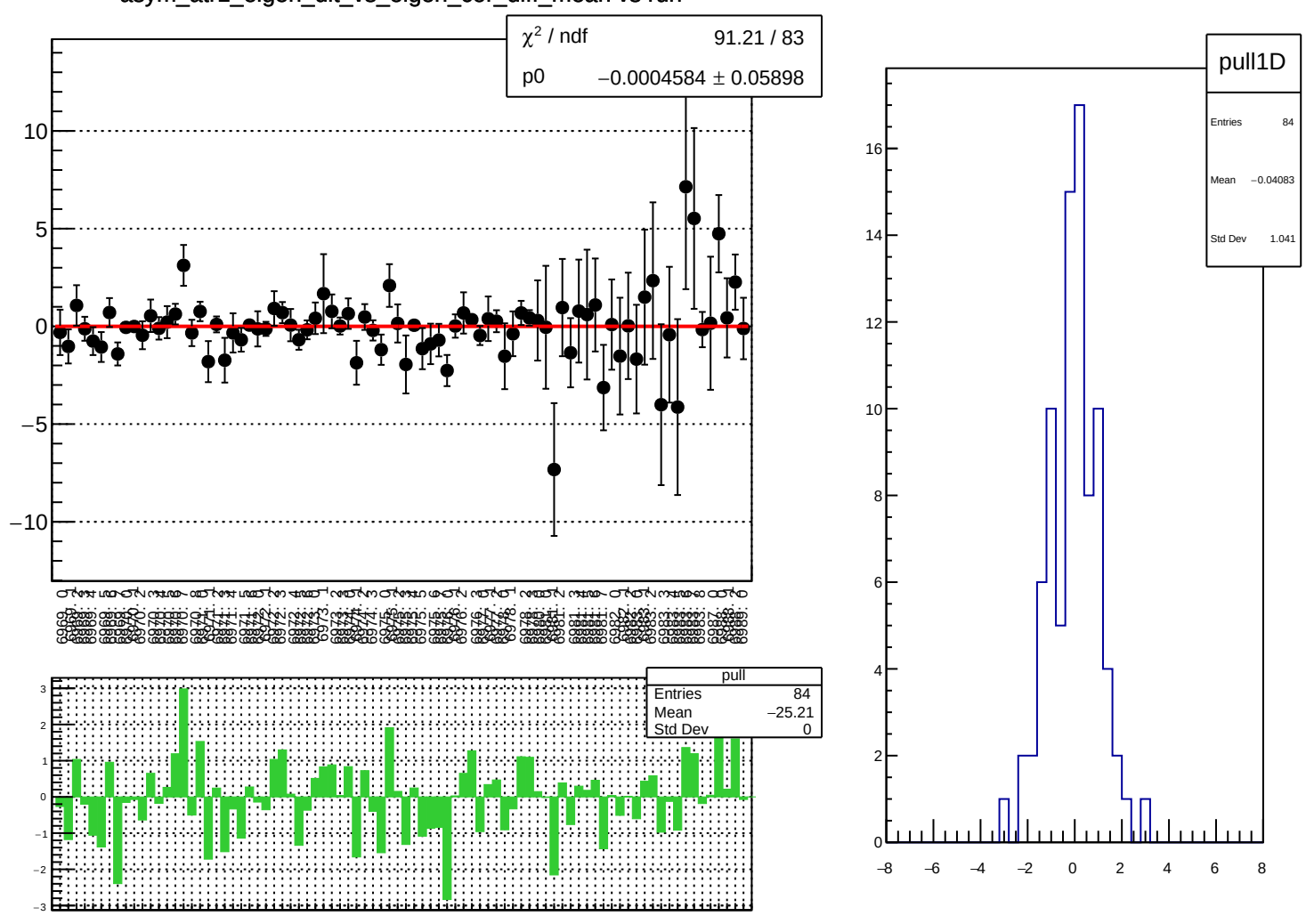

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.7 / 83
p0 1.266e−06 ± 1.848e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean −126.8
Std Dev 0
2
1
0
−1
−2

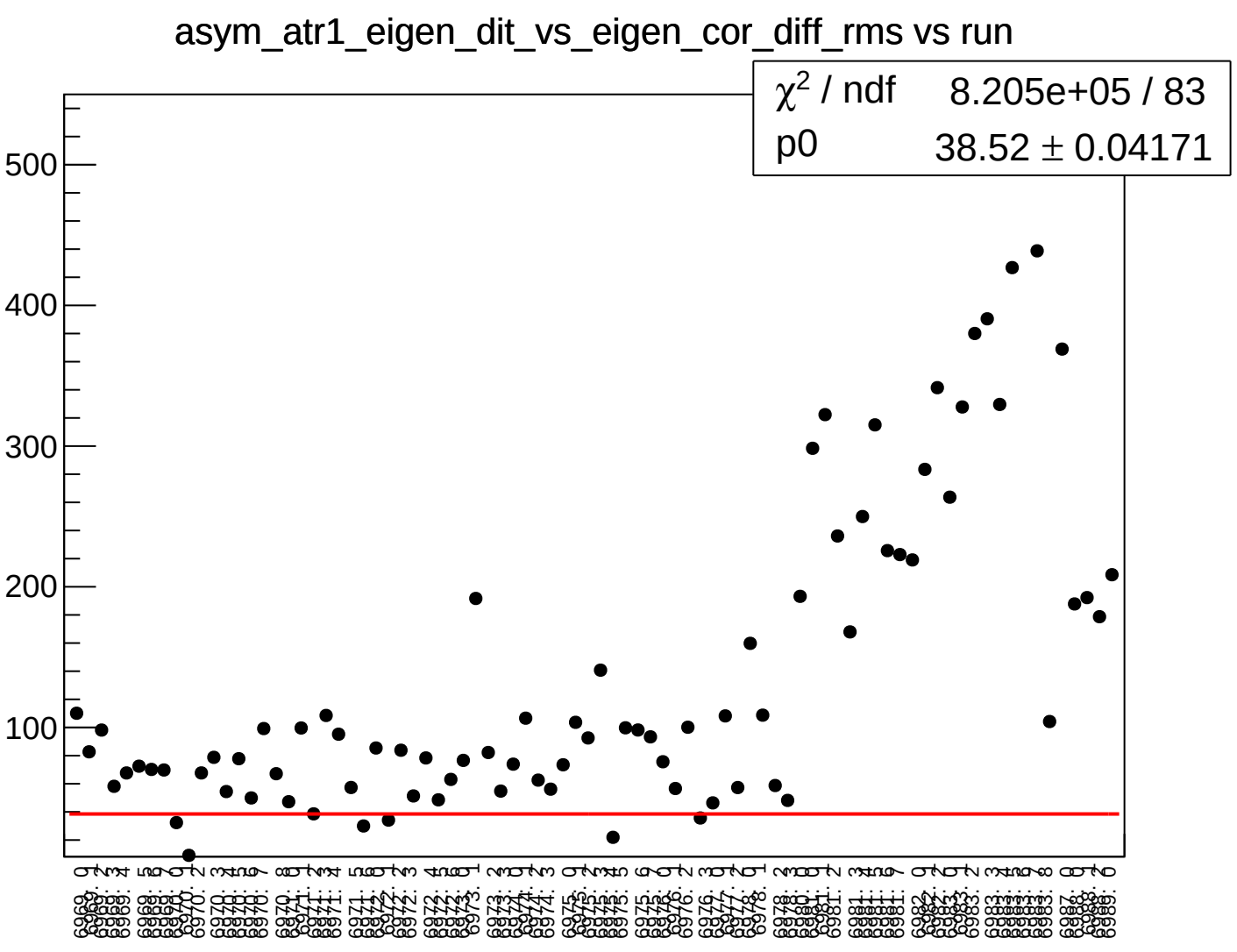

pull1D
Entries 84
Mean 0.03008
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

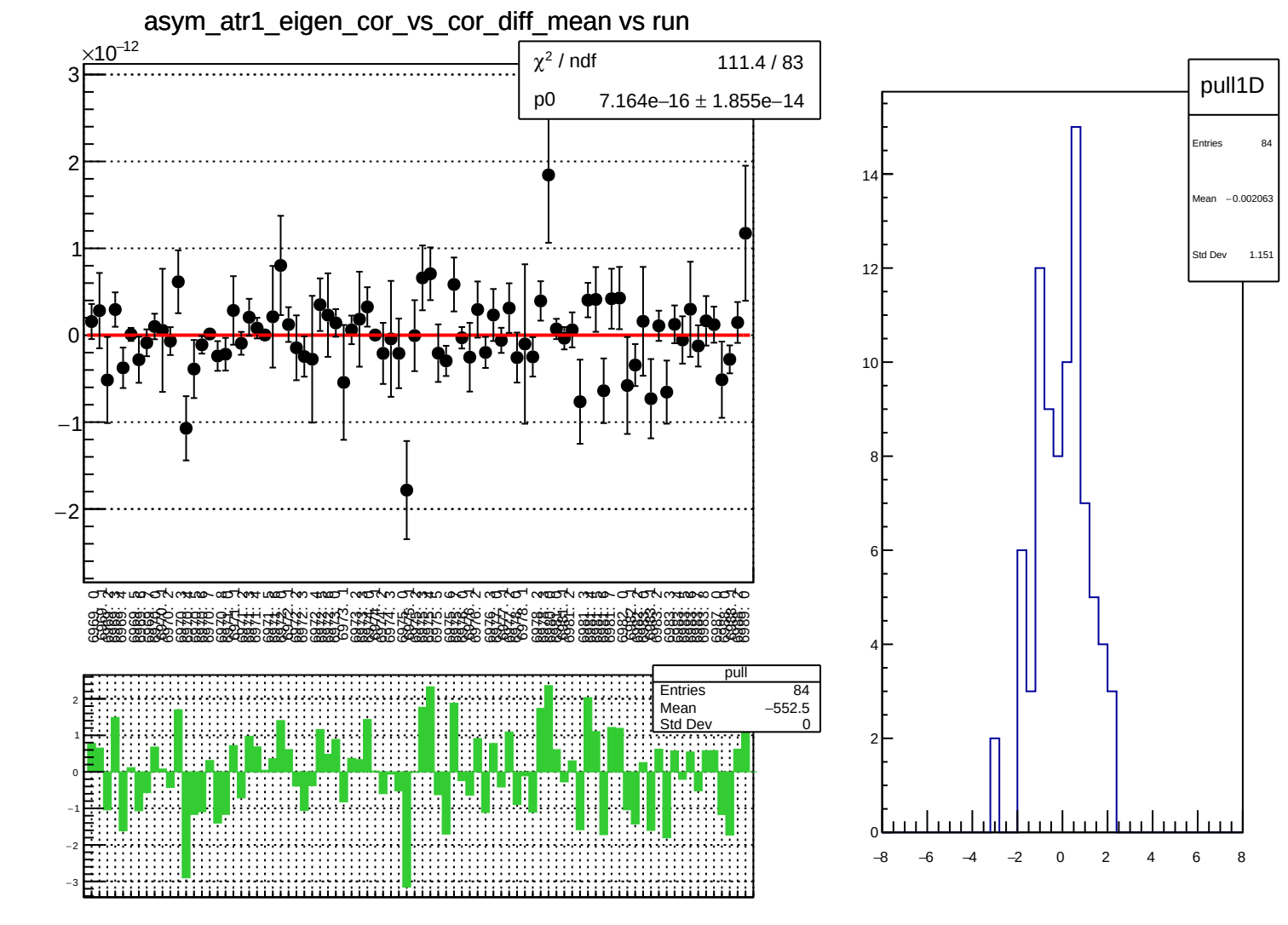

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.993e+04 / 83
p0 0.001681 ± 1.307e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

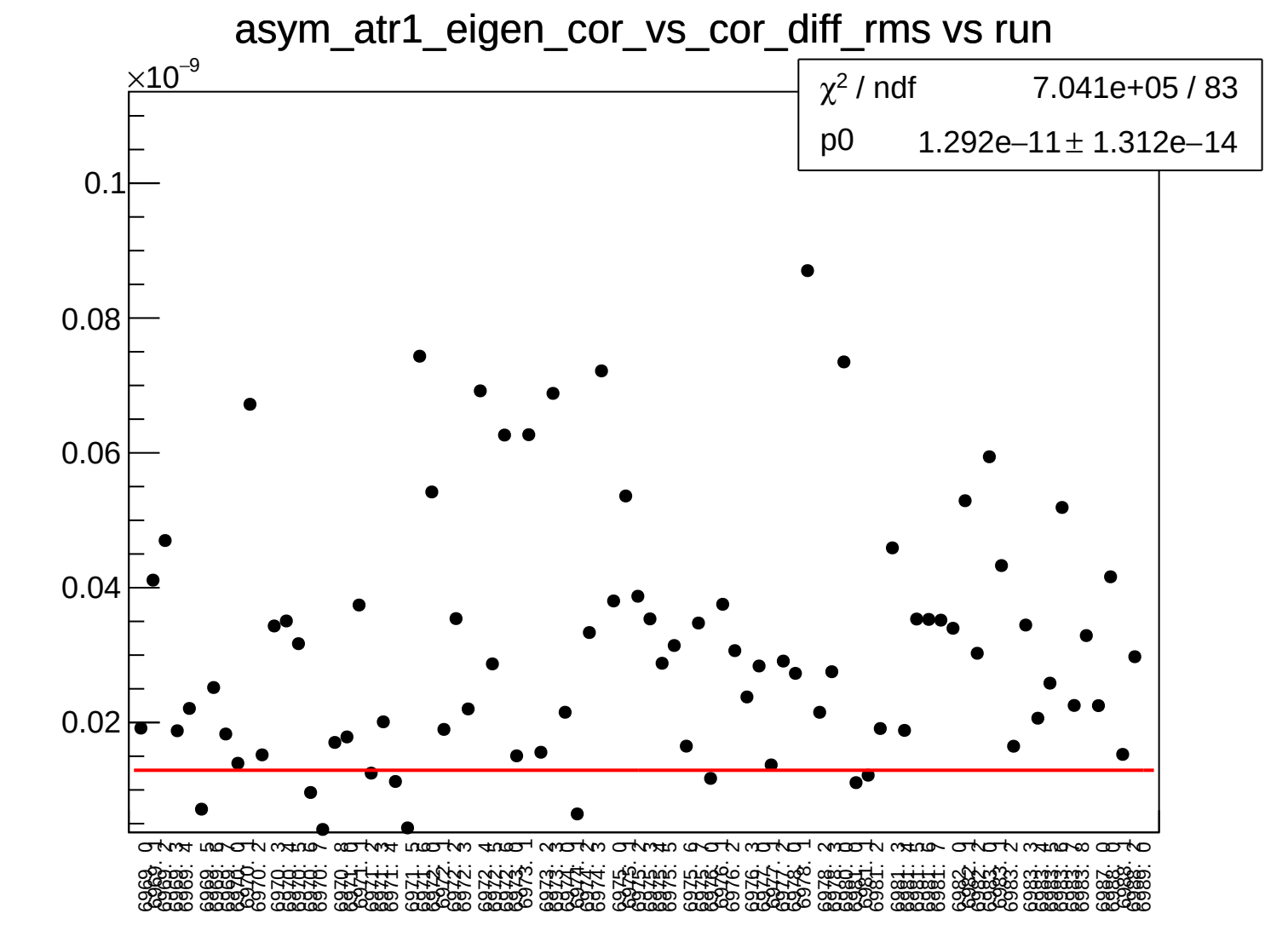

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.21 / 83
p0 −0.0004584 ± 0.05898
pull
Entries 84
Mean −25.21
Std Dev 0
pull1D
Entries 84
Mean −0.04083
Std Dev 1.041

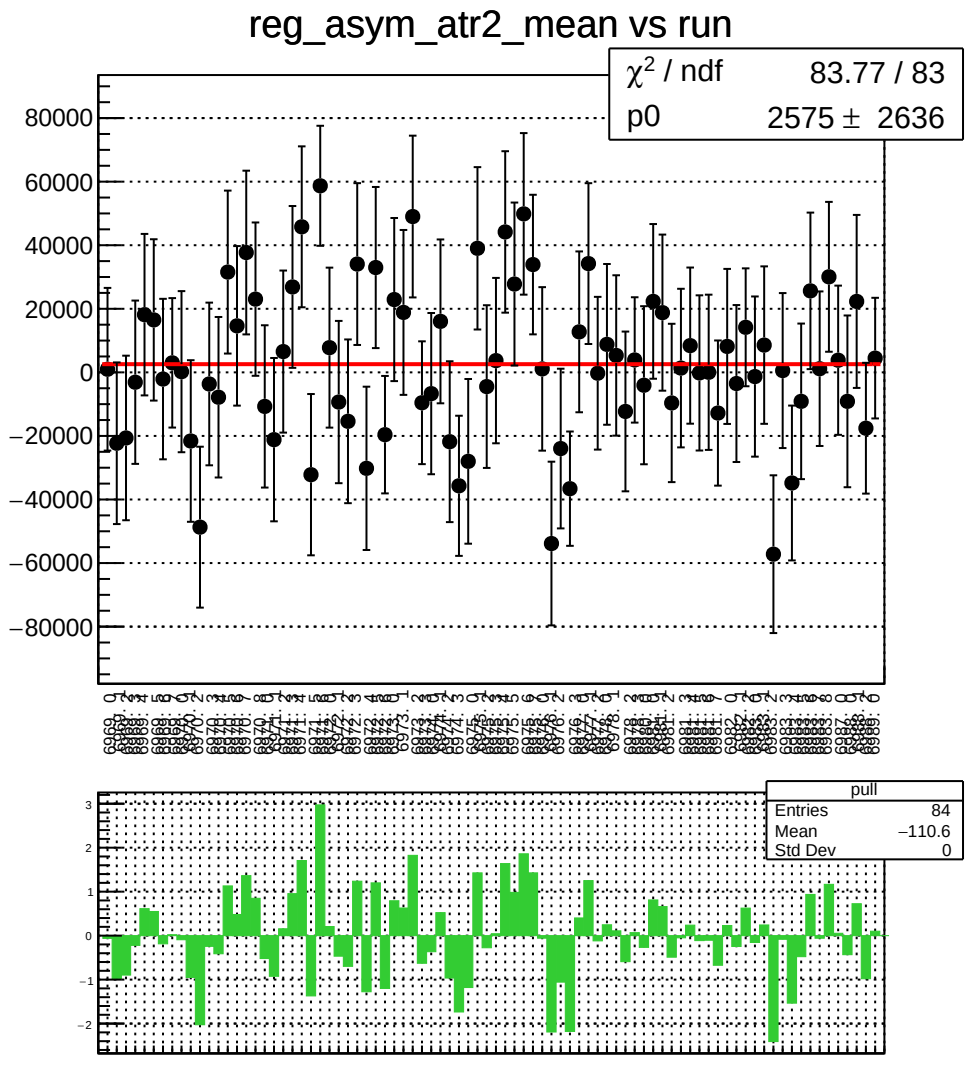

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.205e+05 / 83
p0 38.52 ± 0.04171
500
400
300
200
100

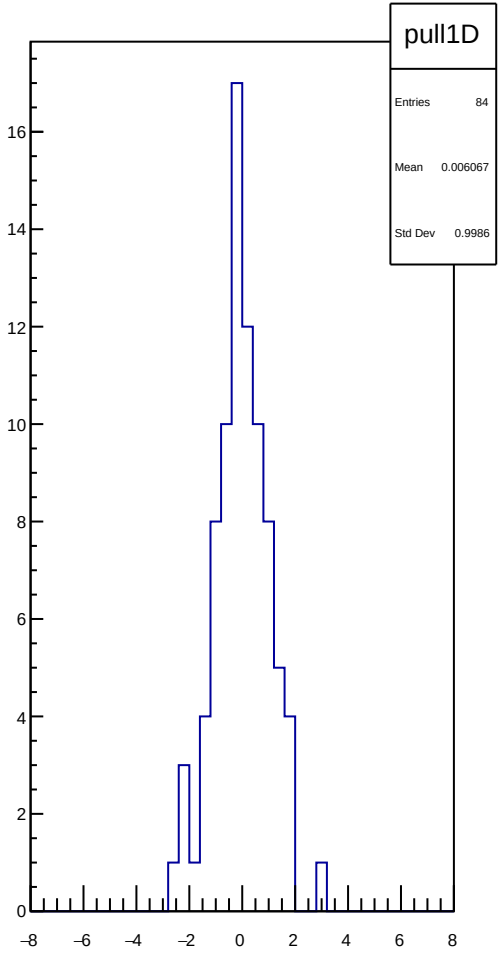

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.21 / 83
p0 −0.0004584 ± 0.05898
pull
Entries 84
Mean −25.21
Std Dev 0
pull1D
Entries 84
Mean −0.04083
Std Dev 1.041

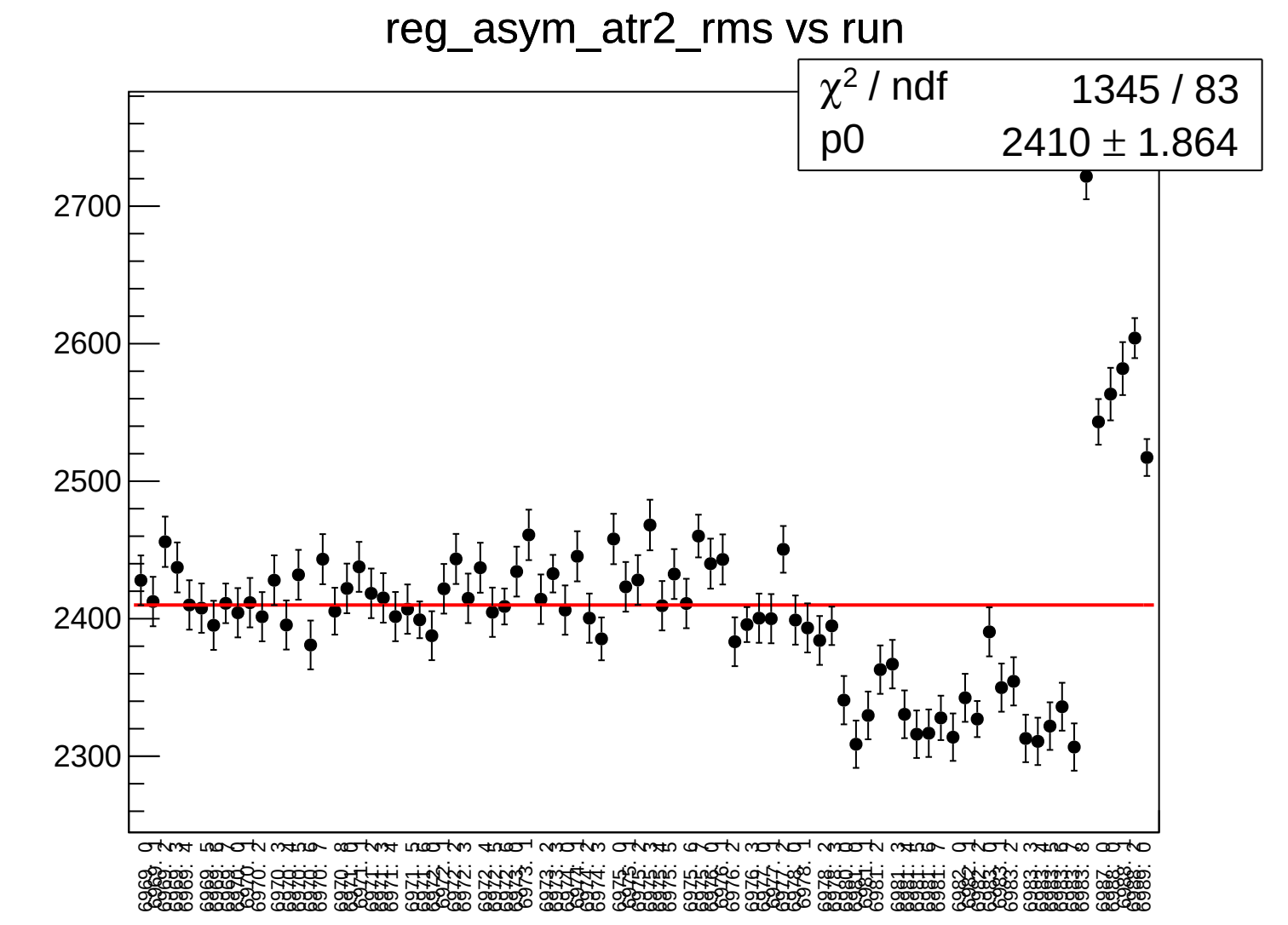

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.205e+05 / 83
p0 38.52 ± 0.04171
500
400
300
200
100

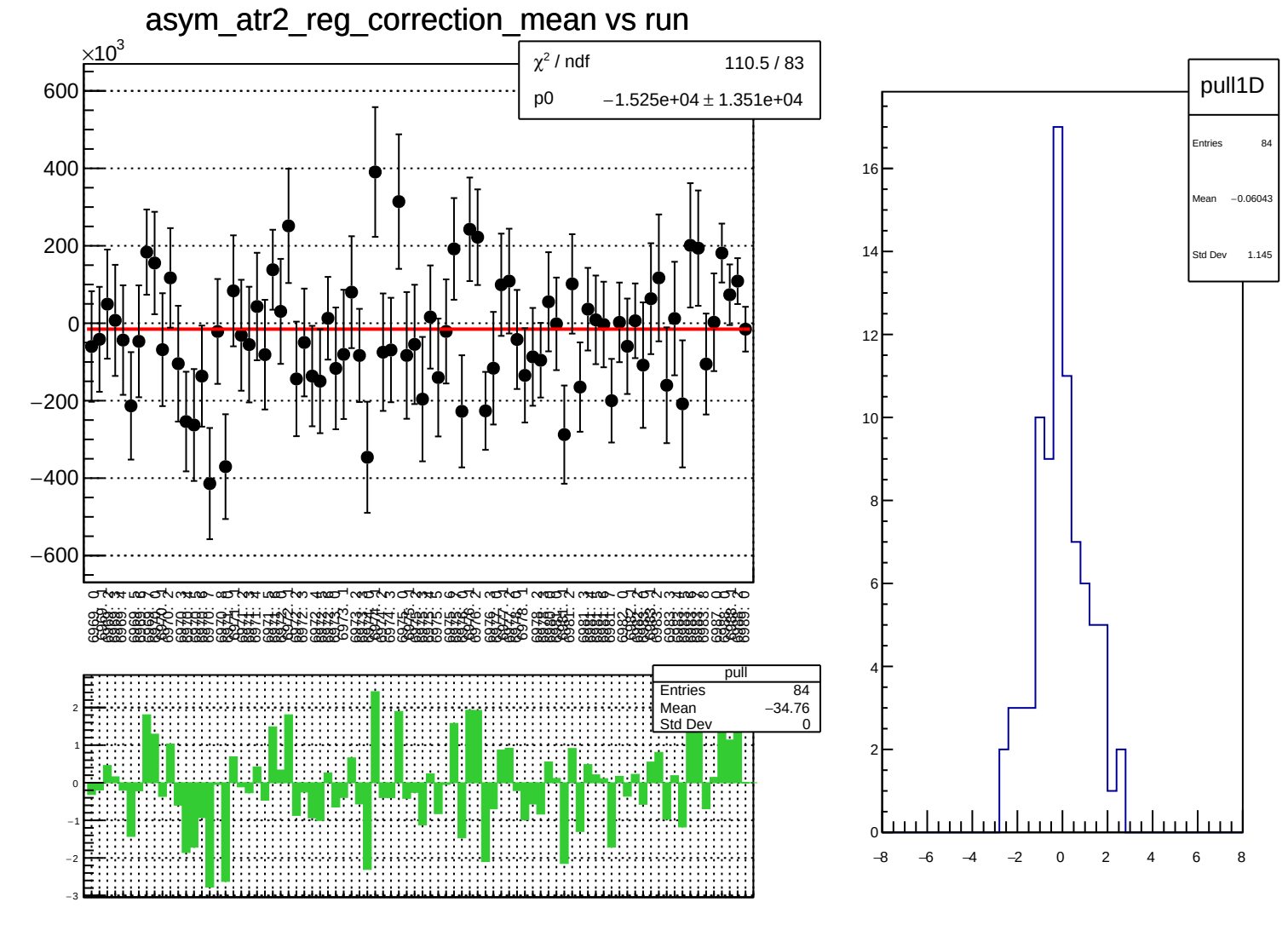

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 111.4 / 83
p0 7.164e−16 ± 1.855e−14
pull
Entries 84
Mean −552.5
Std Dev 0
pull1D
Entries 84
Mean −0.002063
Std Dev 1.151

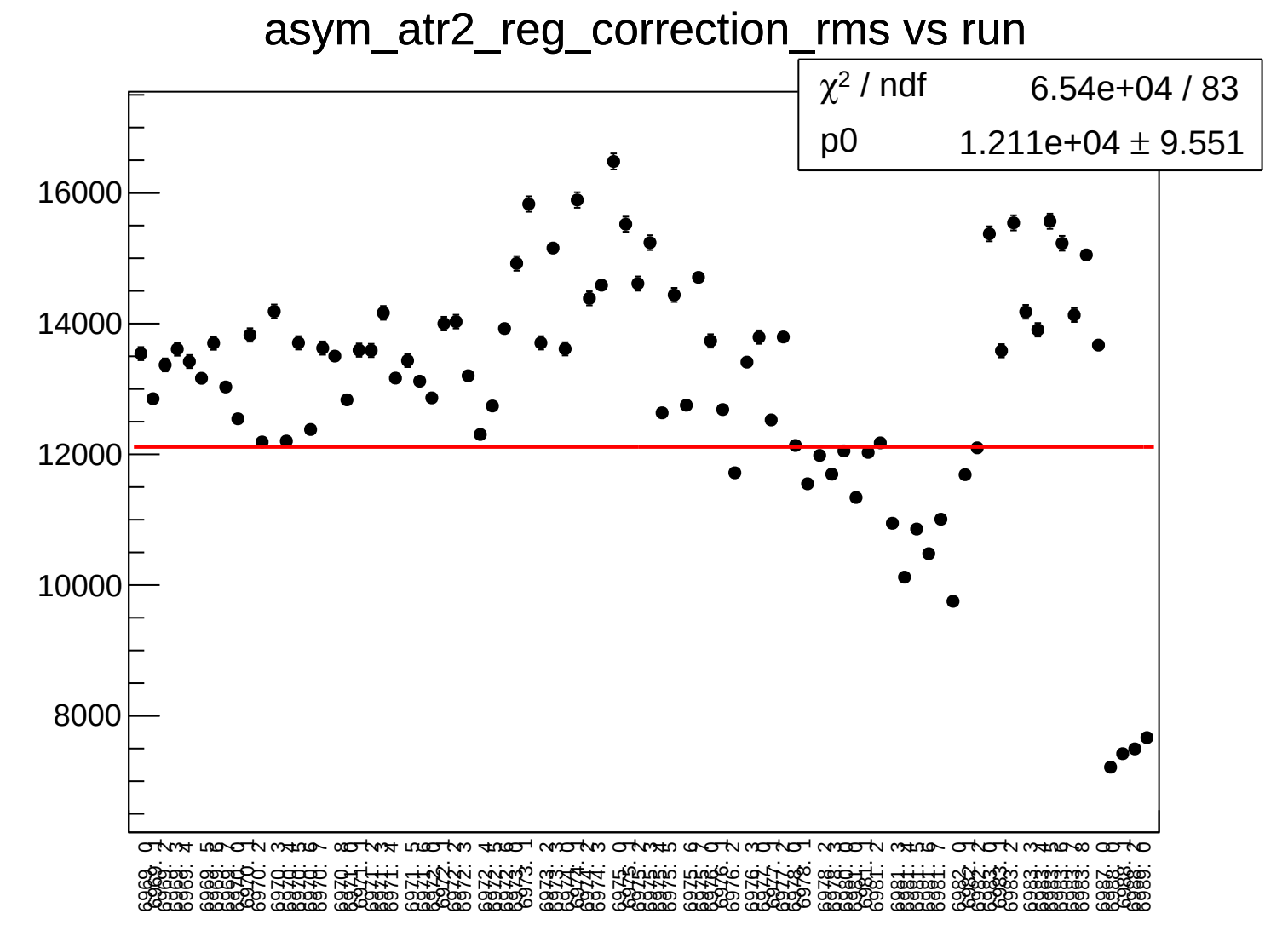

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.041e+05 / 83
p0 1.292e−11 ± 1.312e−14
0.1
0.08
0.06
0.04
0.02

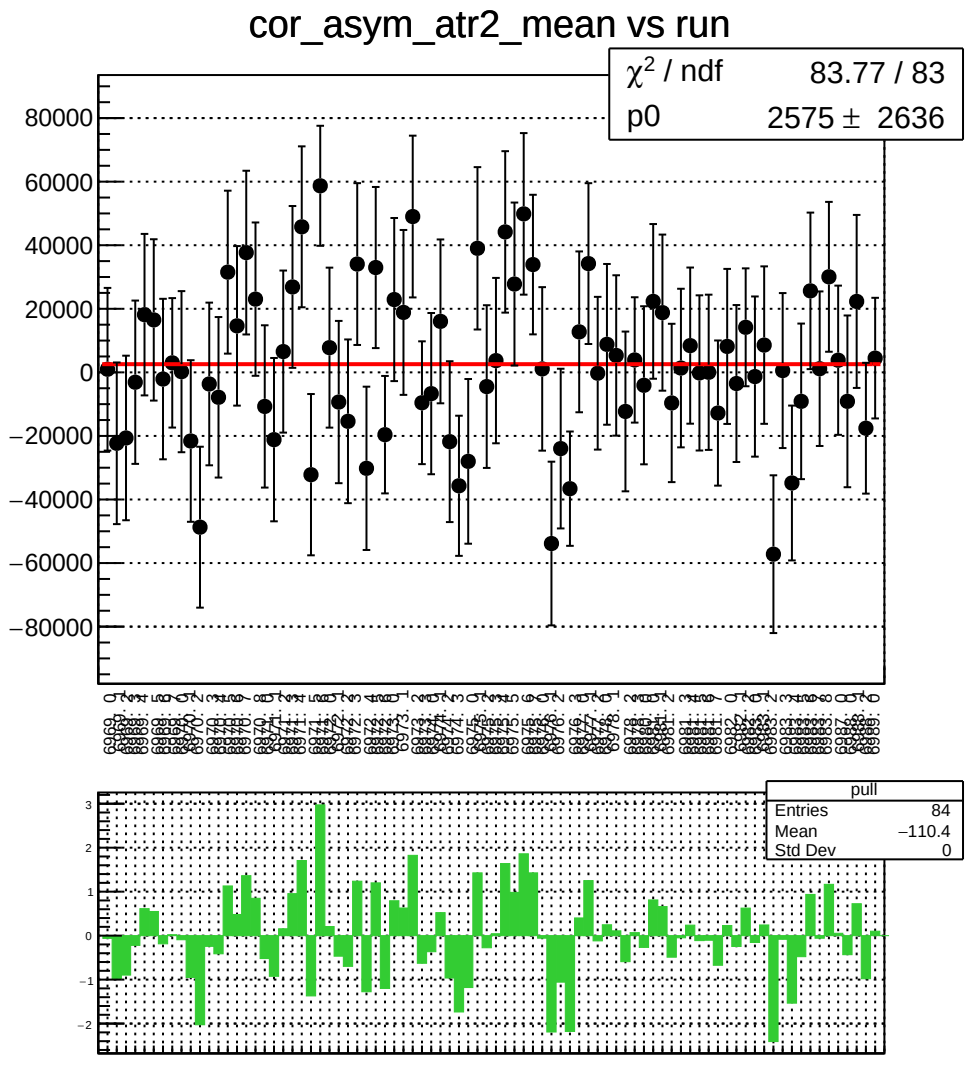

reg_asym_atr2_mean vs run
χ² / ndf 83.77 / 83
p0 2575 ± 2636
pull
Entries 84
Mean −110.6
Std Dev 0

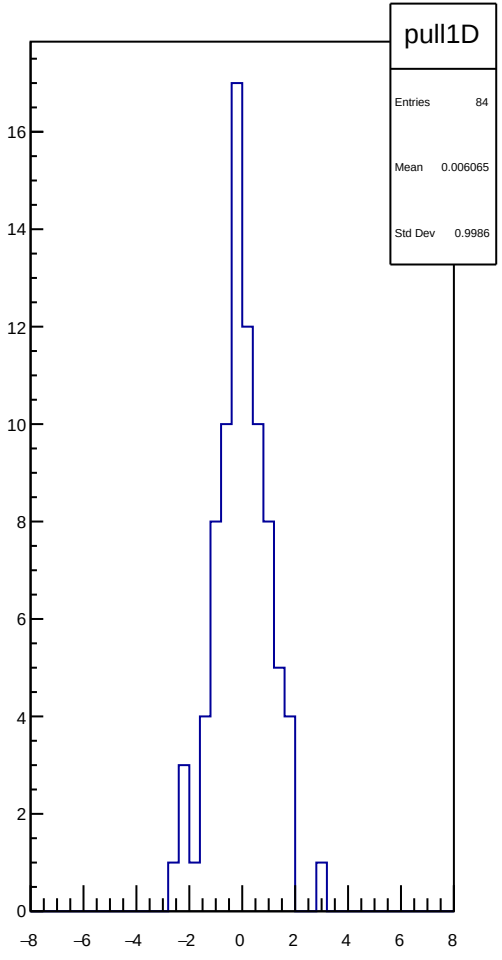

pull1D
Entries 84
Mean 0.006067
Std Dev 0.9986

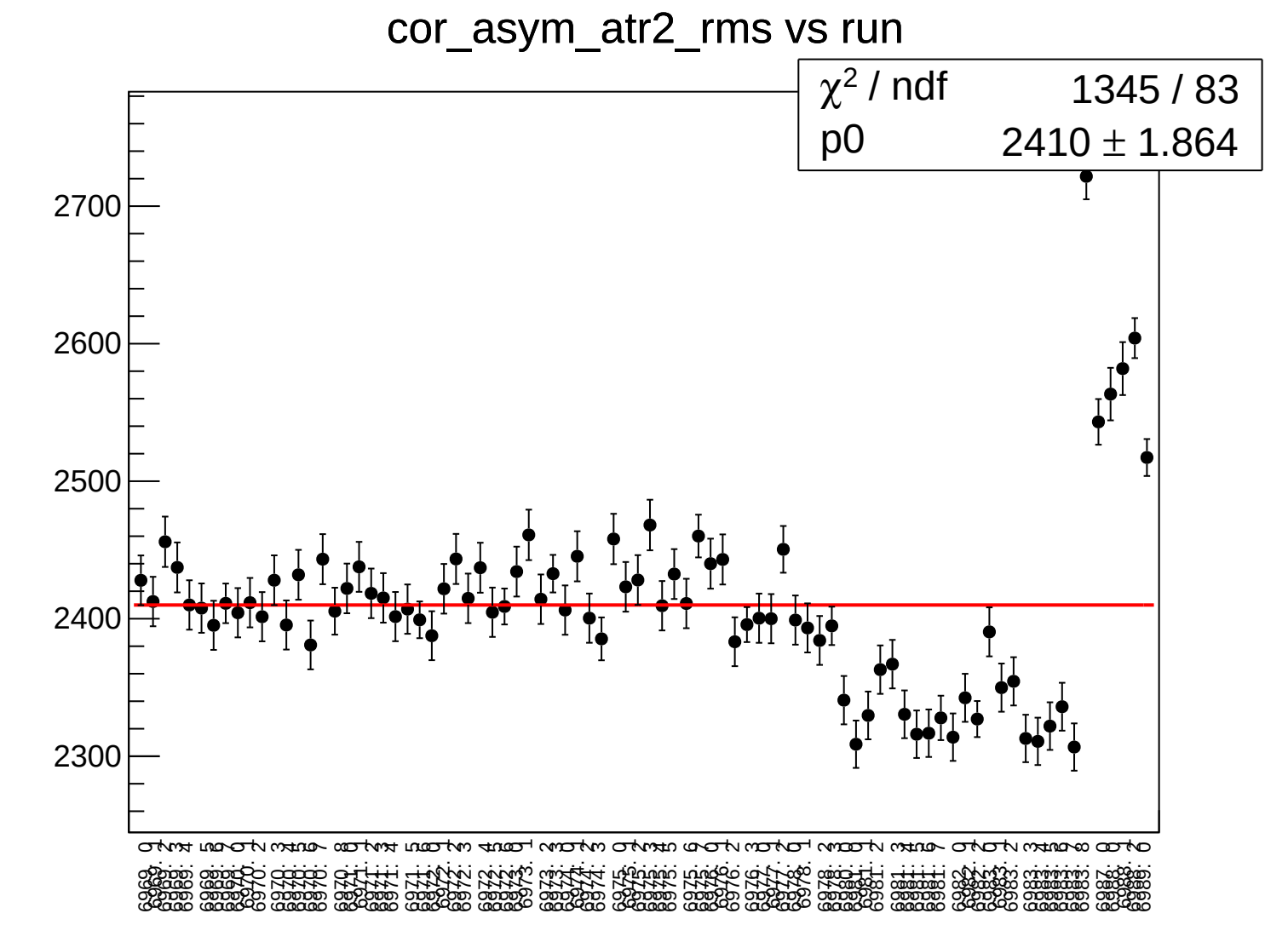

reg_asym_atr2_rms vs run
χ² / ndf 1345 / 83
p0 2410 ± 1.864
2700
2600
2500
2400
2300

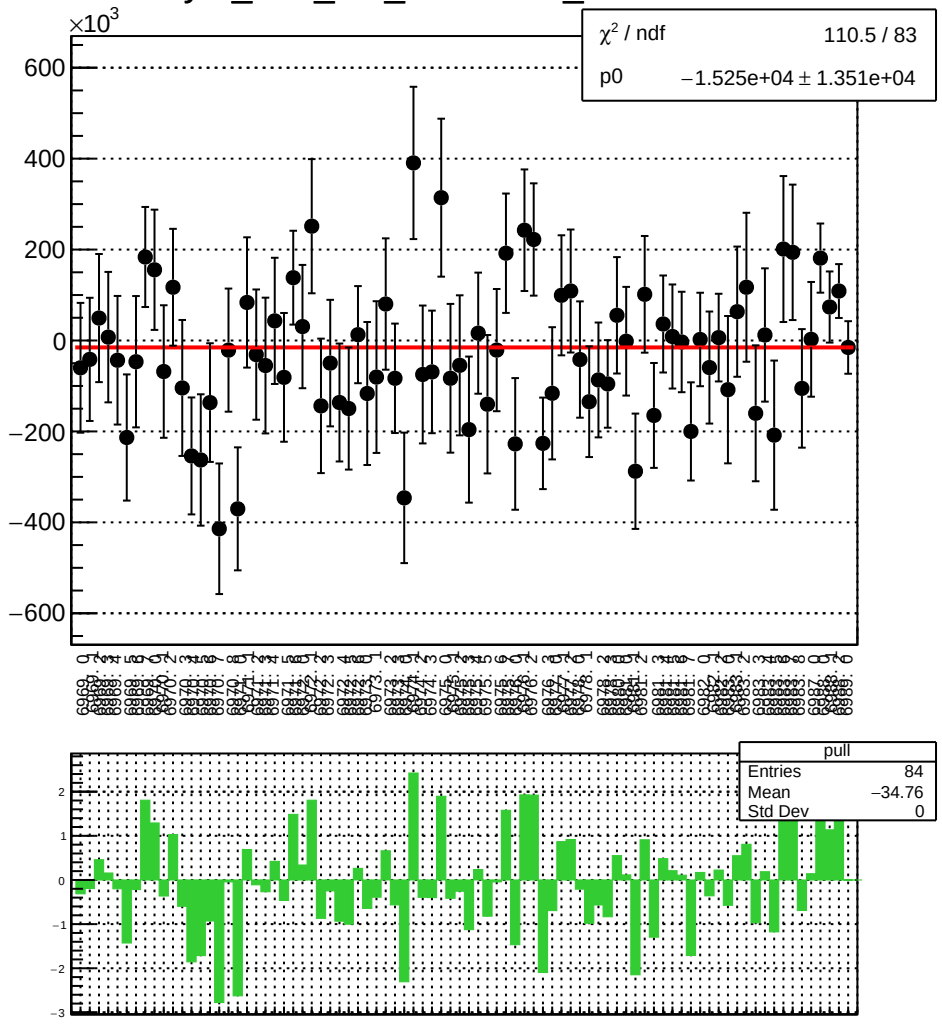

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 110.5 / 83
p0 −1.525e+04 ± 1.351e+04
pull
Entries 84
Mean −34.76
Std Dev 0
pull1D
Entries 84
Mean −0.06043
Std Dev 1.145

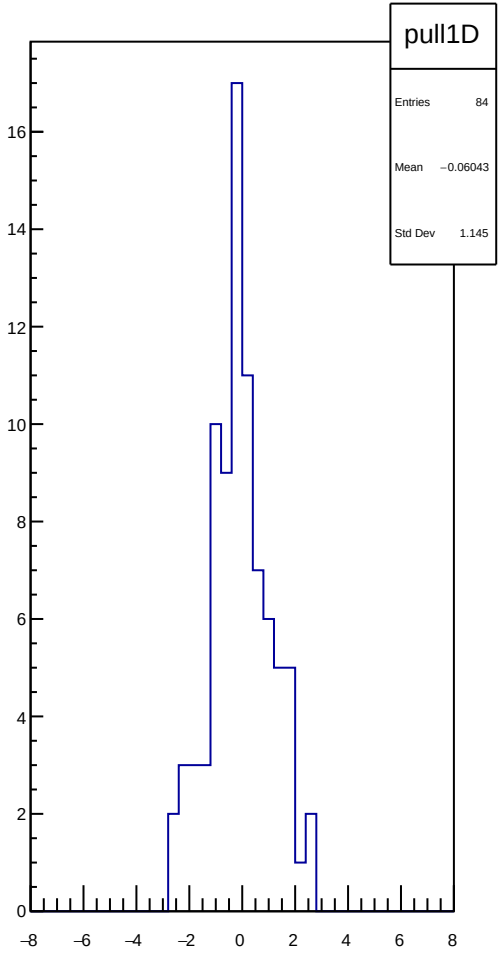

asym_atr2_reg_correction_rms vs run
χ² / ndf 6.54e+04 / 83
p0 1.211e+04 ± 9.551
16000
14000
12000
10000
8000

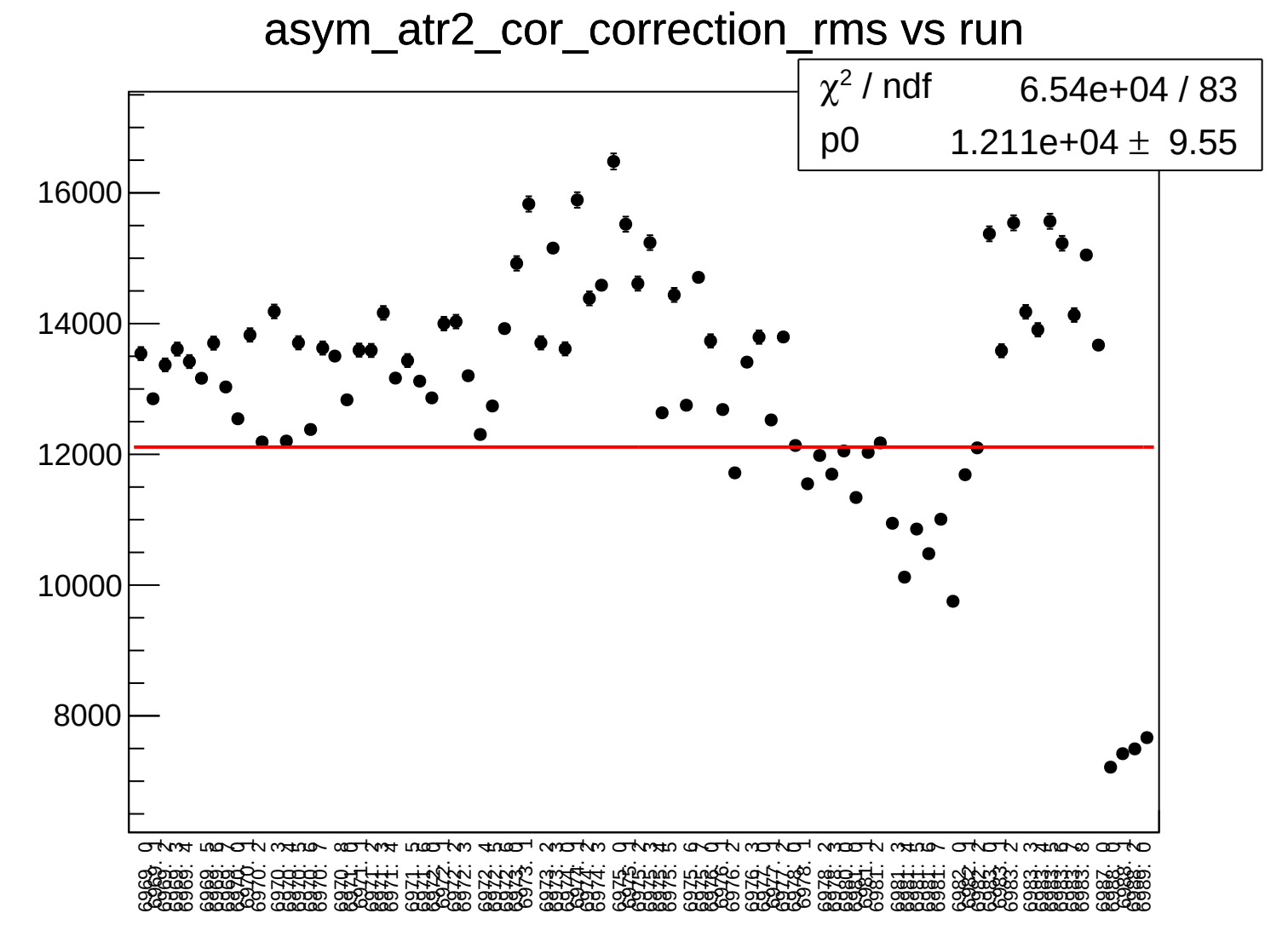

cor_asym_atr2_mean vs run
χ² / ndf 83.77 / 83
p0 2575 ± 2636
pull
Entries 84
Mean −110.4
Std Dev 0

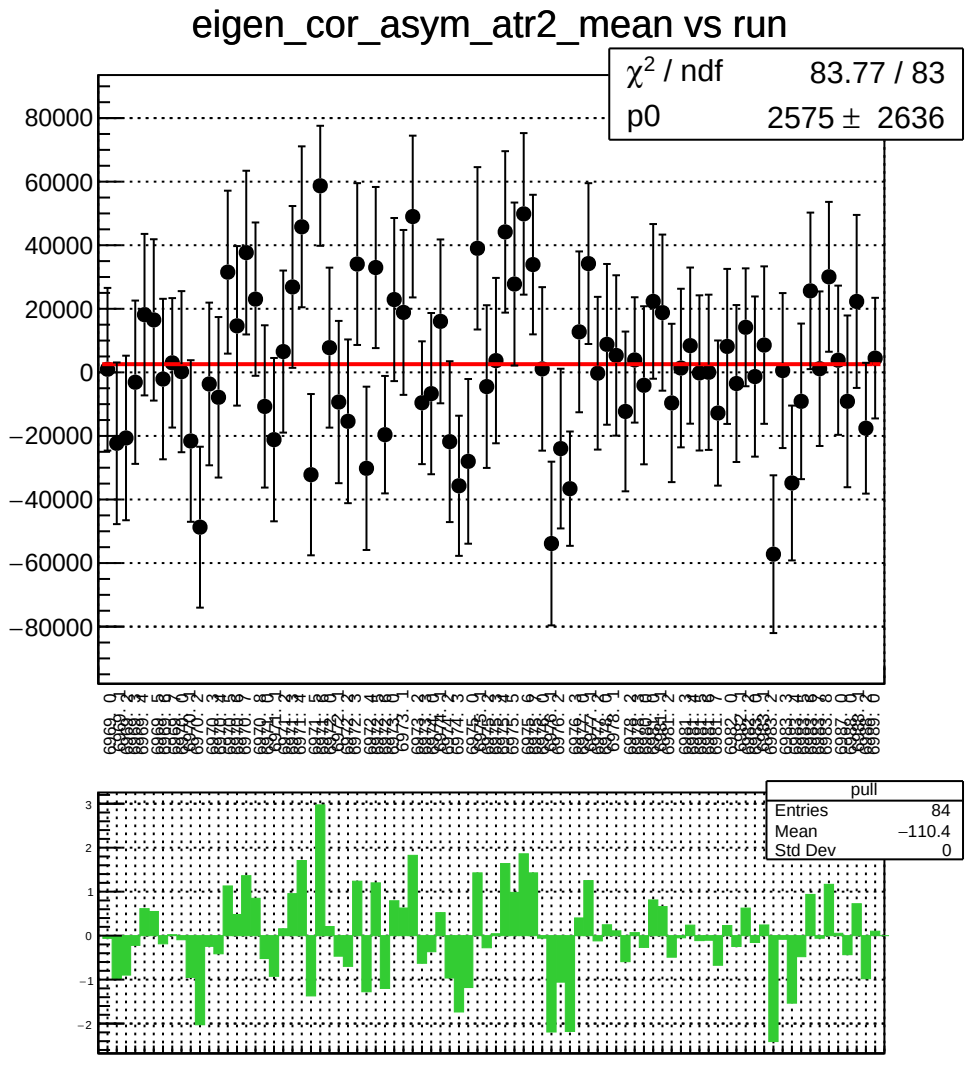

pull1D
Entries 84
Mean 0.006065
Std Dev 0.9986

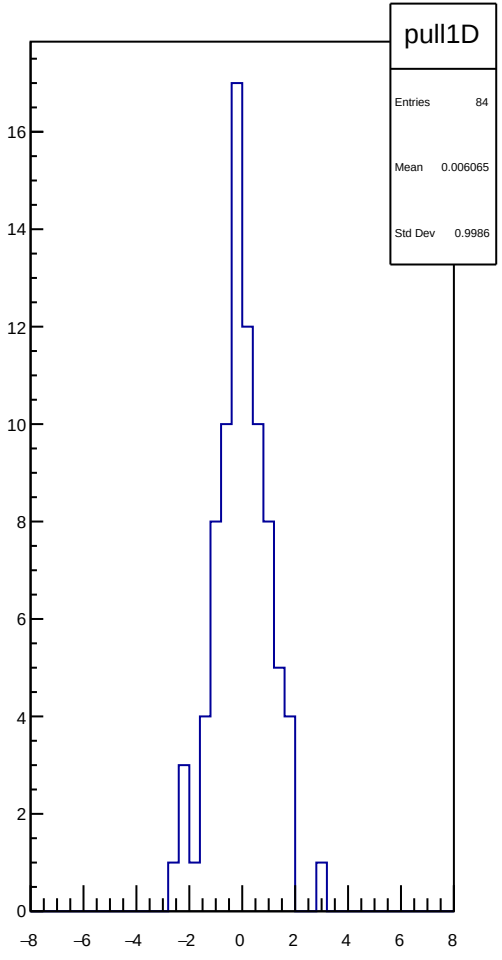

cor_asym_atr2_rms vs run
χ² / ndf 1345 / 83
p0 2410 ± 1.864
2700
2600
2500
2400
2300

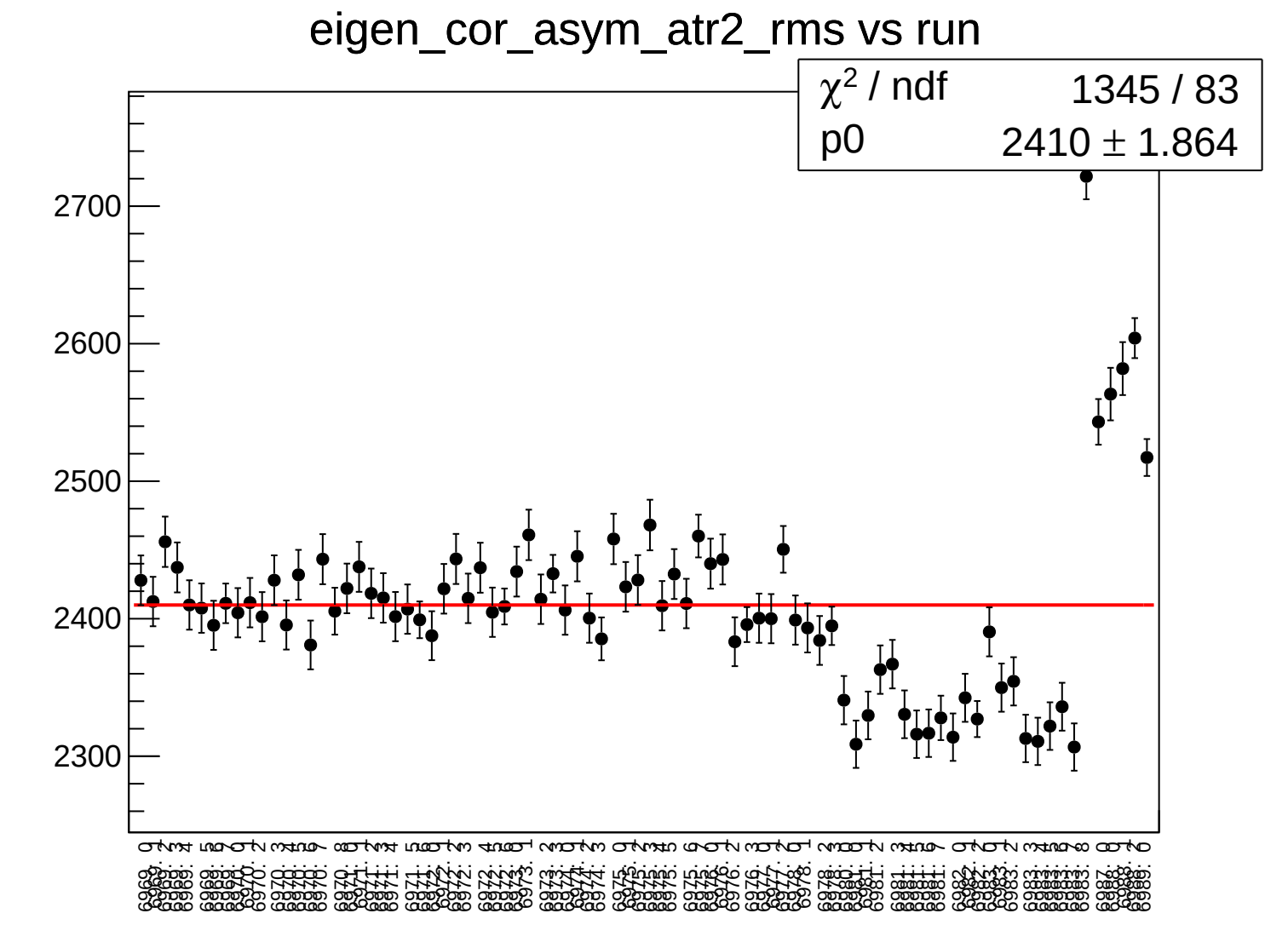

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 110.5 / 83
p0 −1.525e+04 ± 1.351e+04
pull
Entries 84
Mean −34.76
Std Dev 0

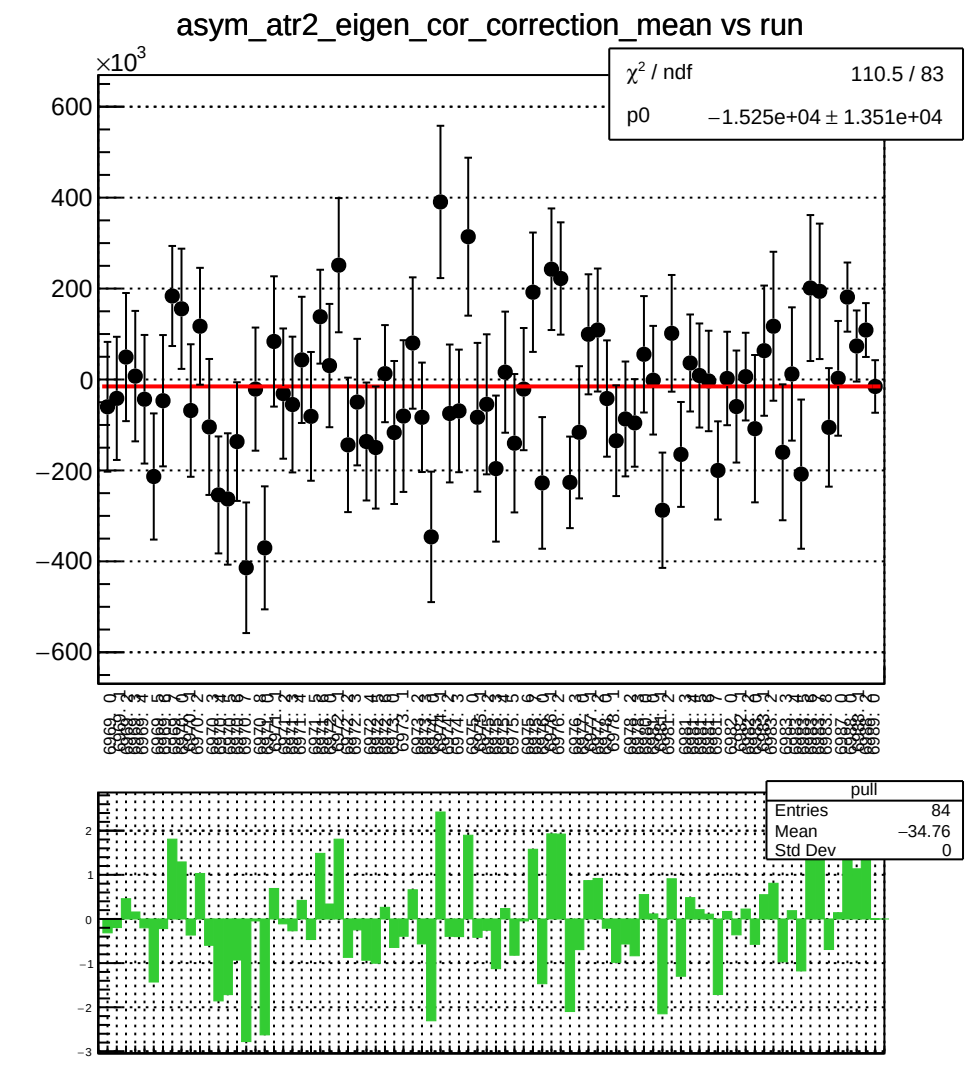

pull1D
Entries 84
Mean −0.06043
Std Dev 1.145

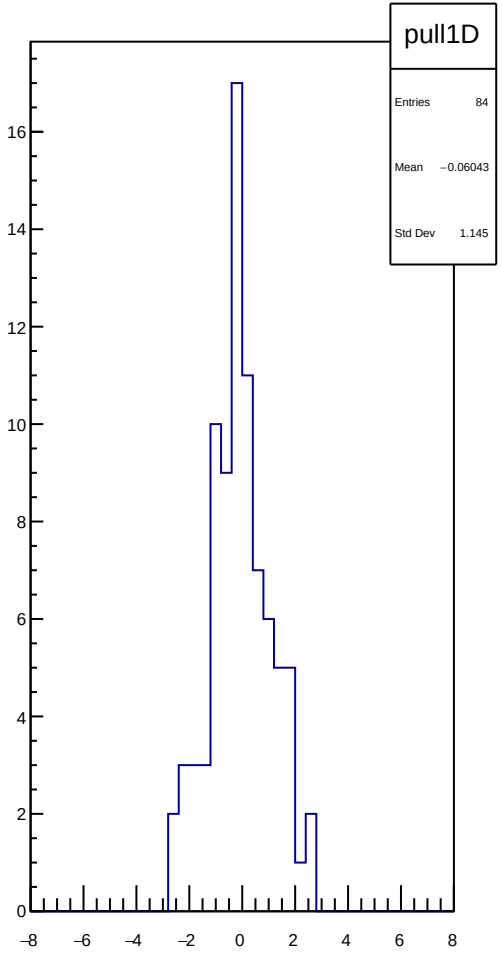

asym_atr2_cor_correction_rms vs run
χ^2 / ndf 6.54e+04 / 83
p0 1.211e+04 ± 9.55
16000
14000
12000
10000
8000

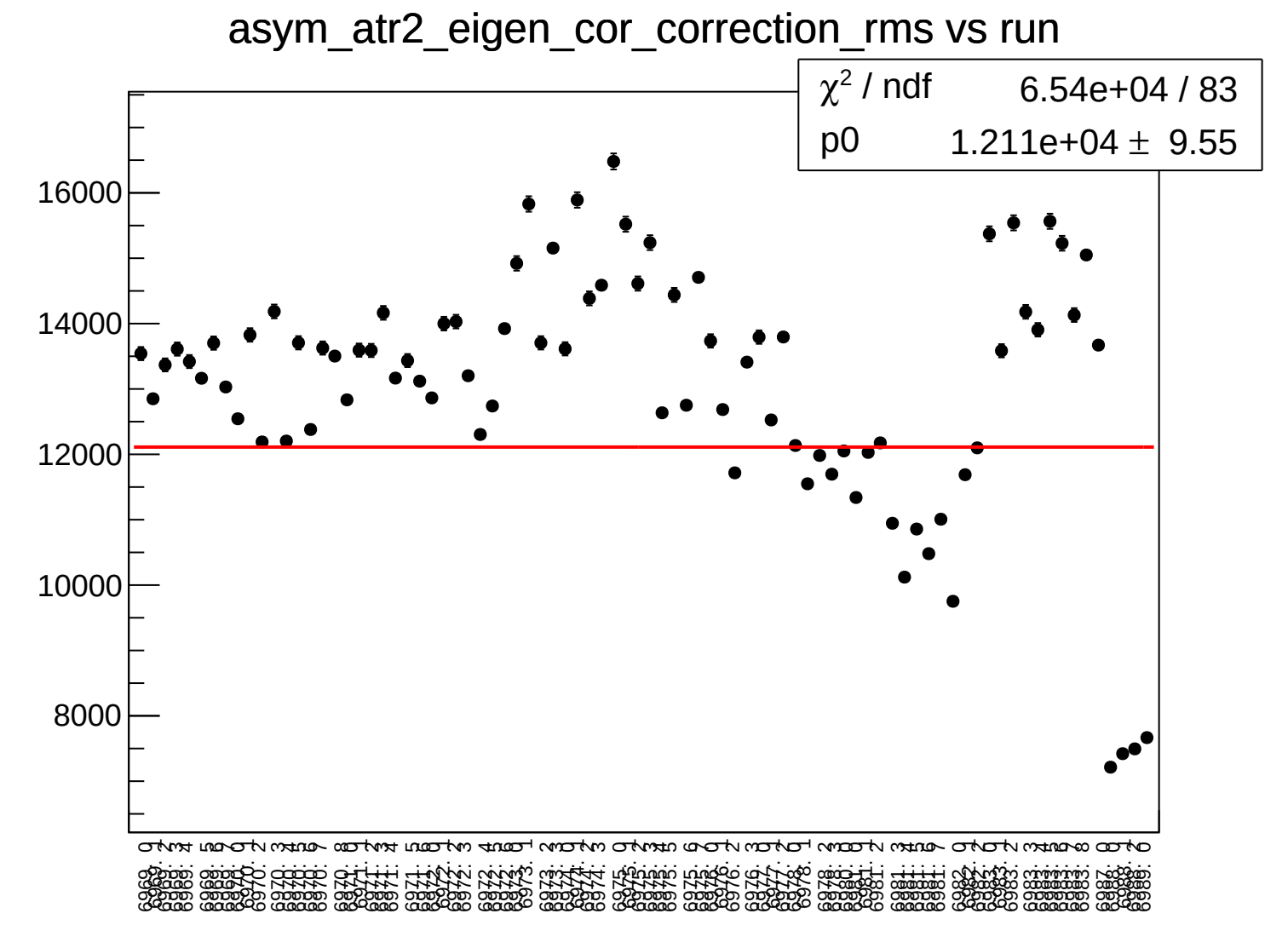

eigen_cor_asym_atr2_mean vs run
χ² / ndf 83.77 / 83
p0 2575 ± 2636
pull
Entries 84
Mean −110.4
Std Dev 0

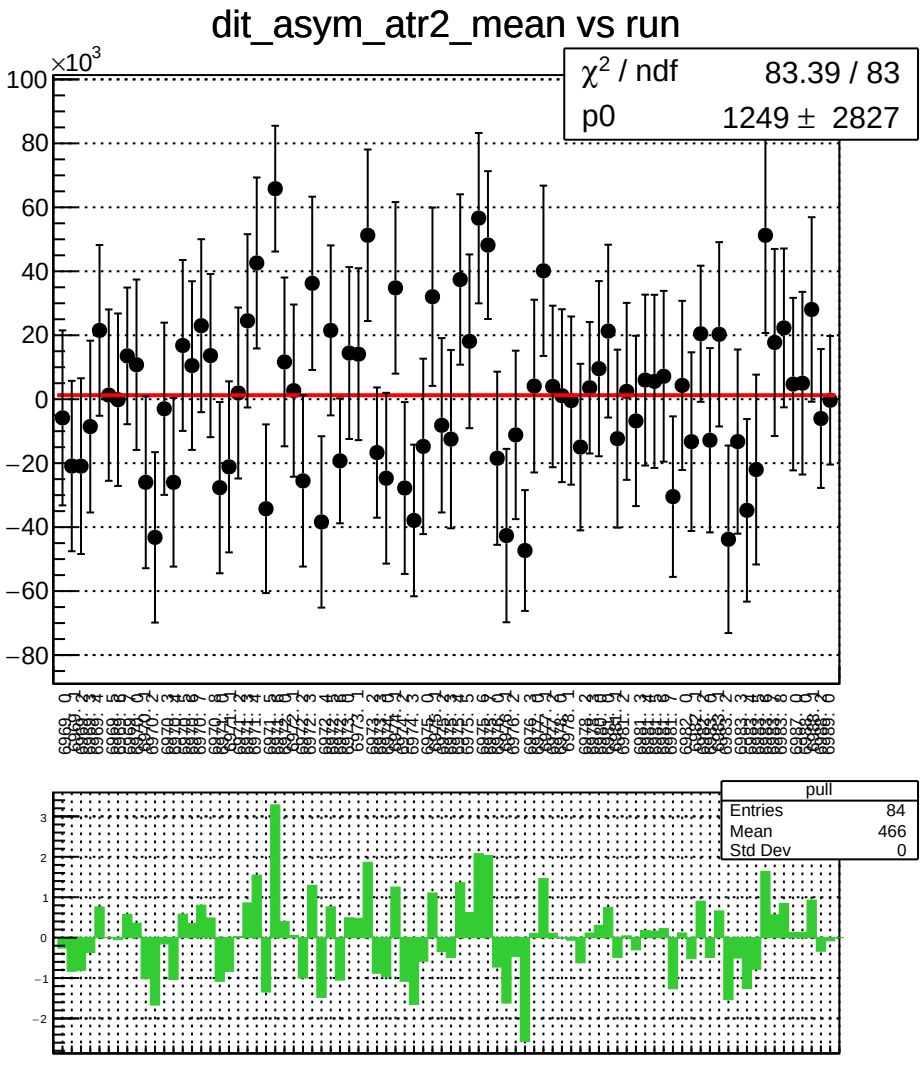

pull1D
Entries 84
Mean 0.006065
Std Dev 0.9986

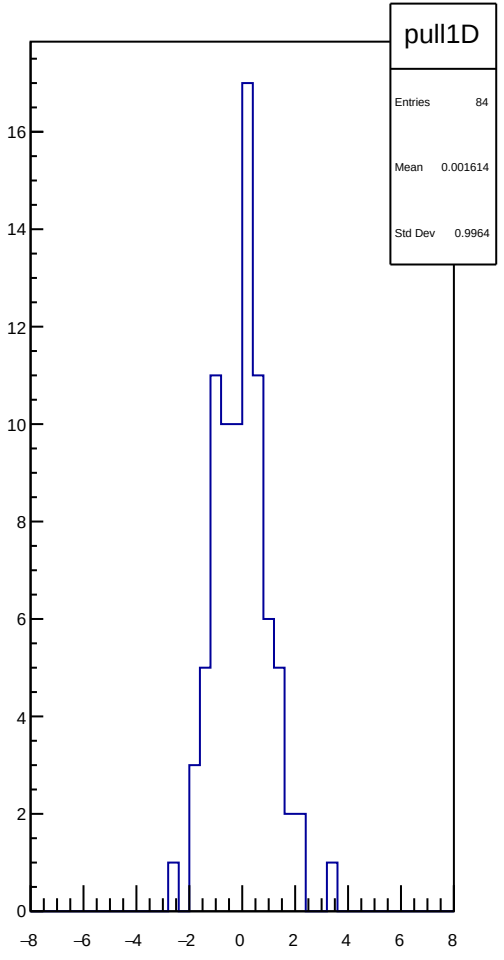

eigen_cor_asym_atr2_rms vs run
χ² / ndf 1345 / 83
p0 2410 ± 1.864
2700
2600
2500
2400
2300

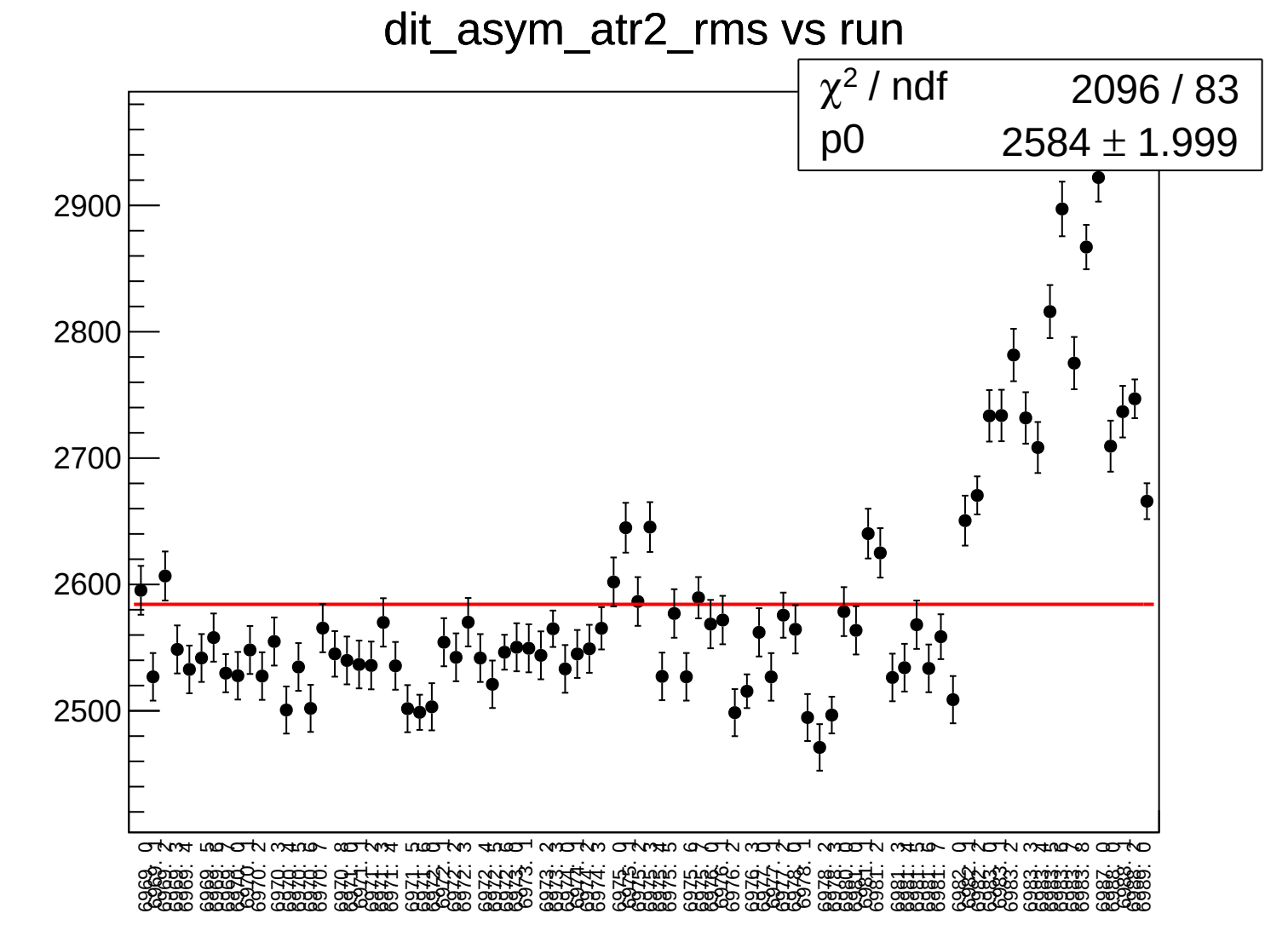

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 110.5 / 83
p0 −1.525e+04 ± 1.351e+04
pull
Entries 84
Mean −34.76
Std Dev 0

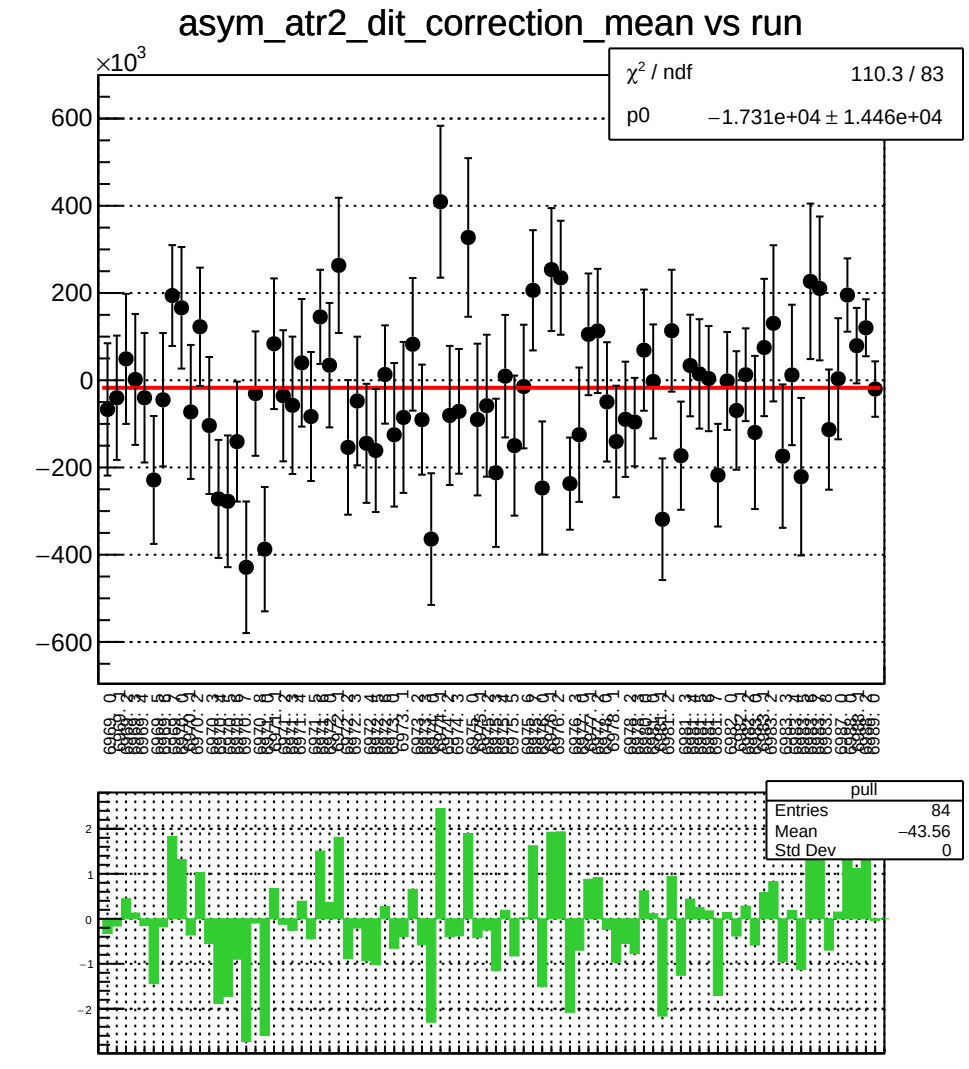

pull1D
Entries 84
Mean −0.06043
Std Dev 1.145

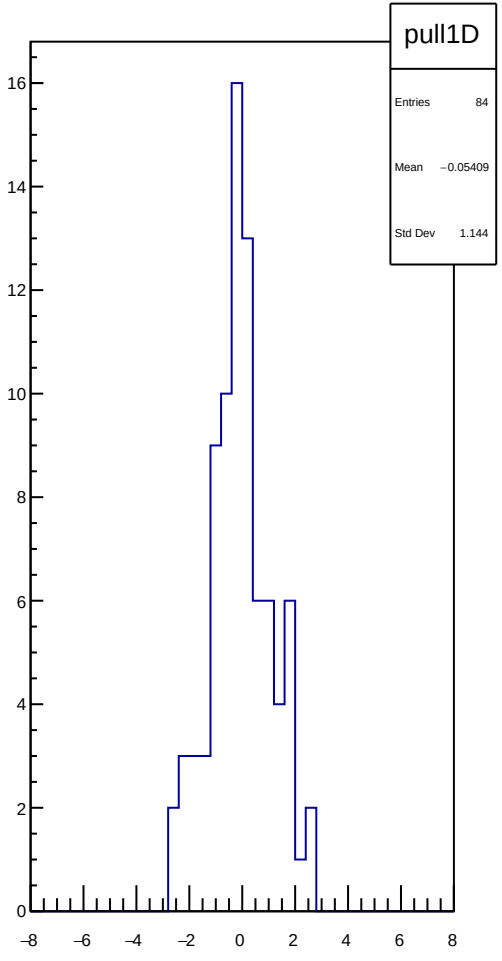

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 6.54e+04 / 83
p0 1.211e+04 ± 9.55
16000
14000
12000
10000
8000

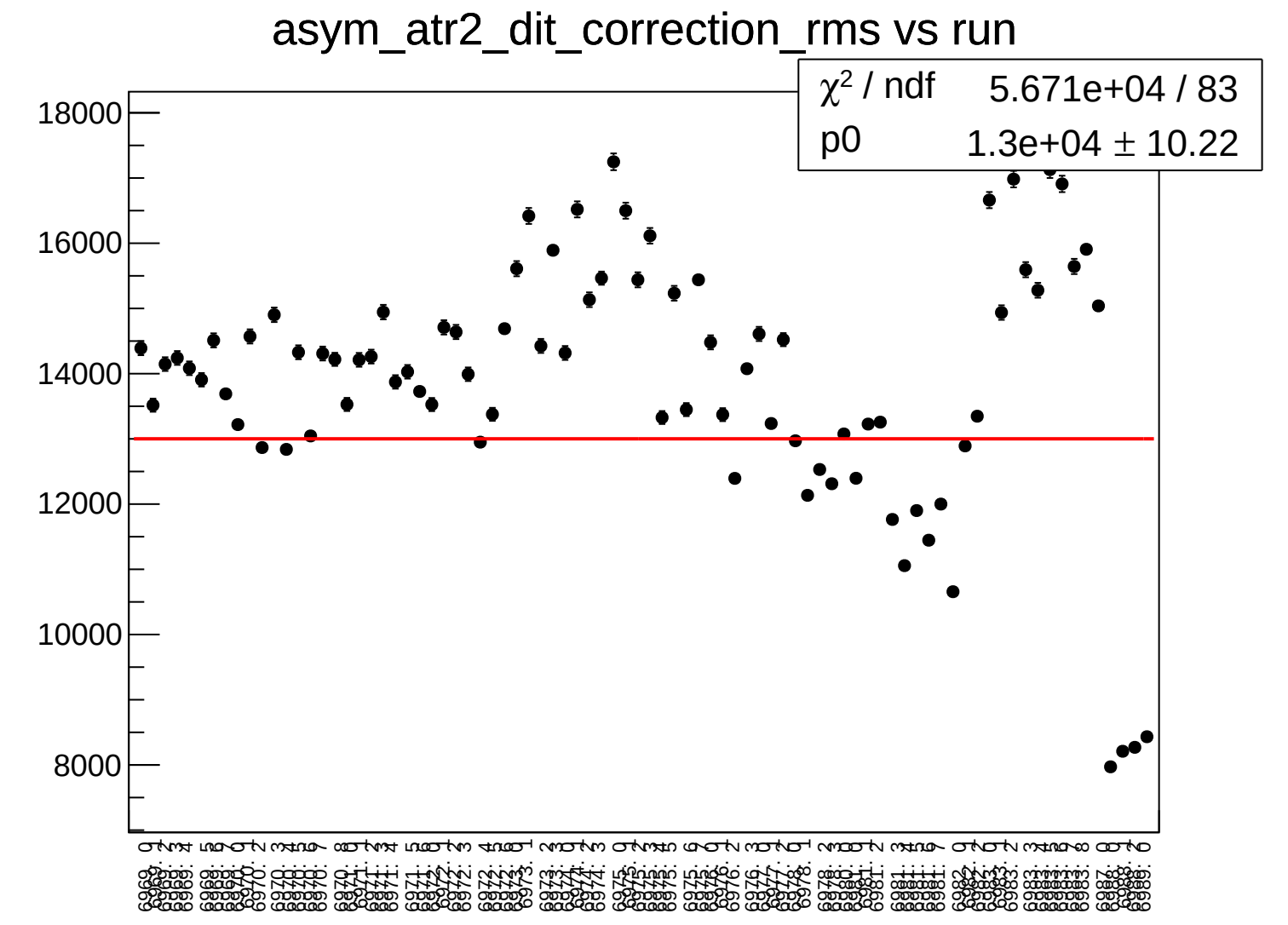

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 83.39 / 83
p0 1249 ± 2827
pull
Entries 84
Mean 466
Std Dev 0

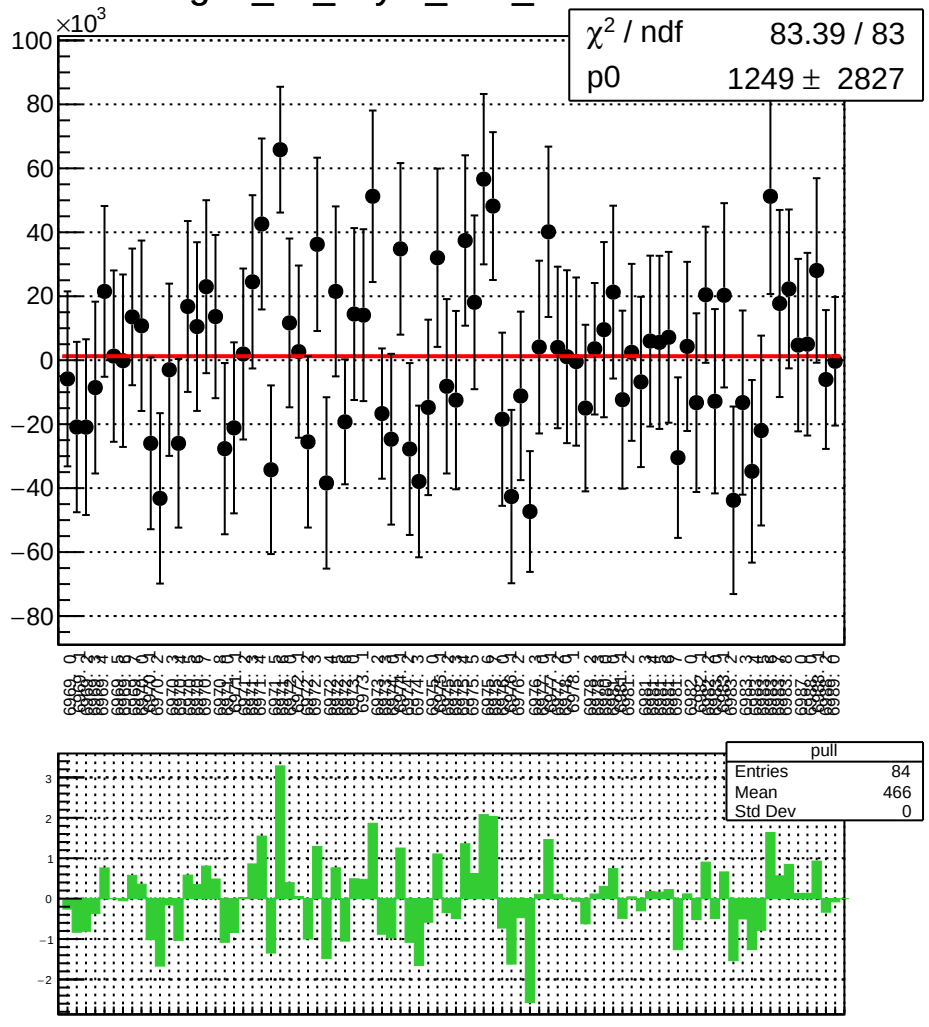

pull1D
Entries 84
Mean 0.001614
Std Dev 0.9964

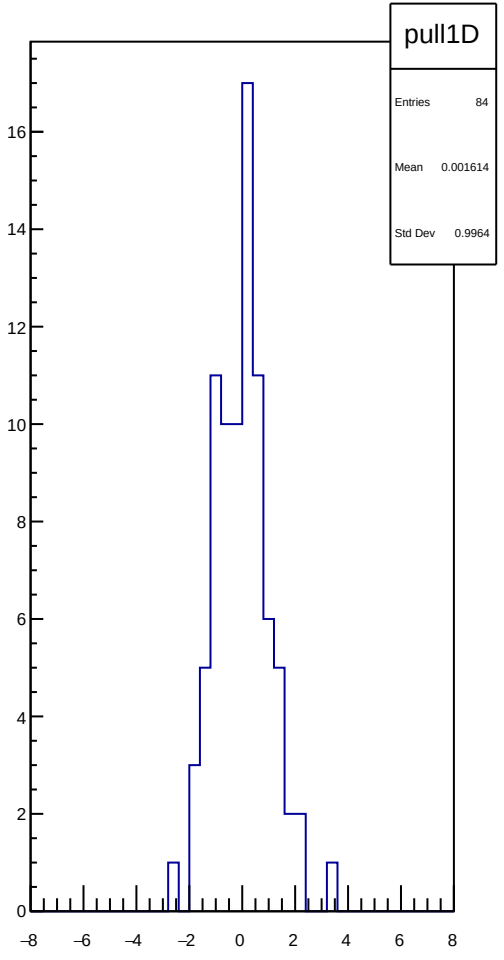

dit_asym_atr2_rms vs run
χ^2 / ndf 2096 / 83
p0 2584 ± 1.999
2900
2800
2700
2600
2500

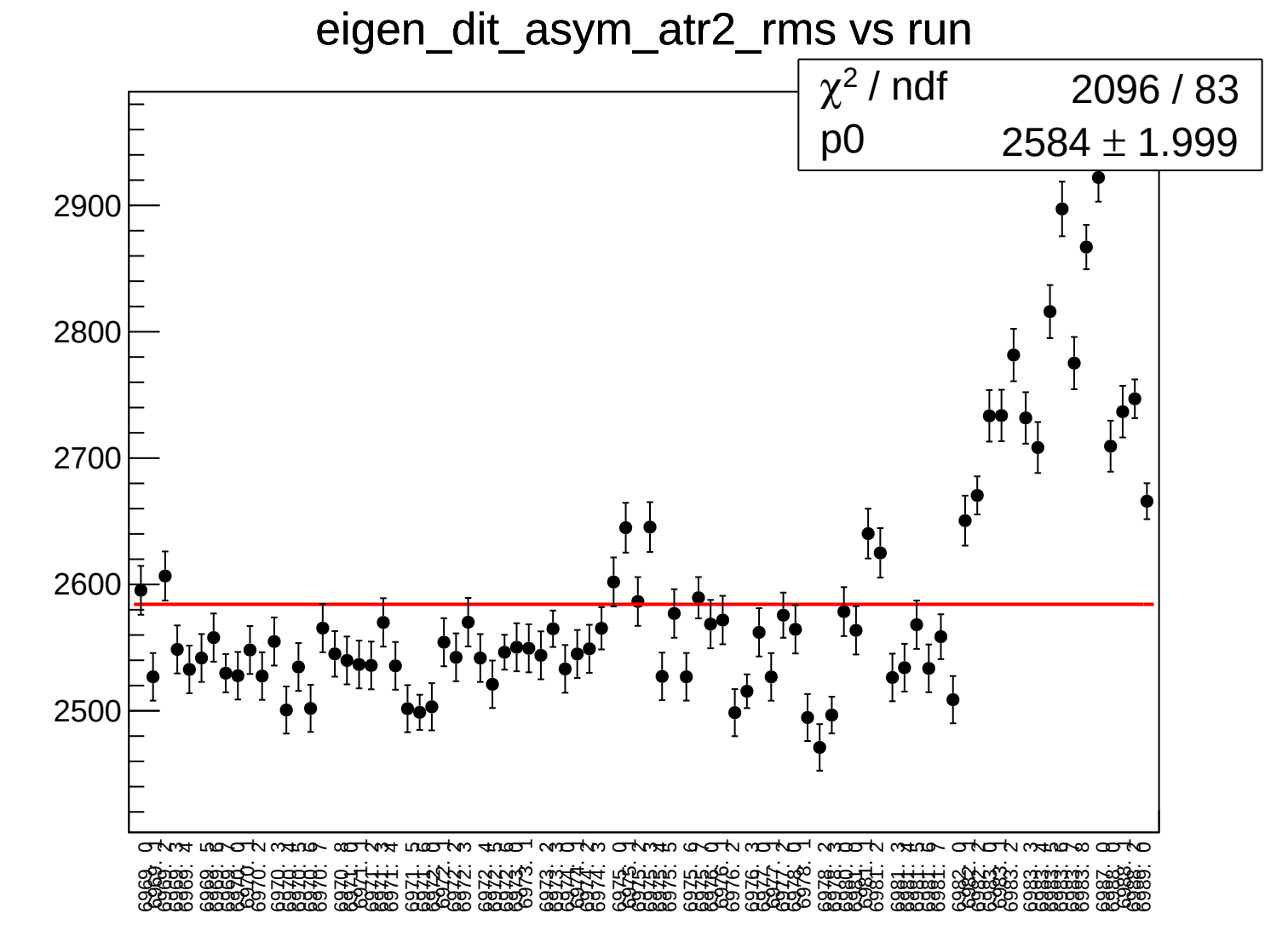

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 110.3 / 83
p0 −1.731e+04 ± 1.446e+04
pull
Entries 84
Mean −43.56
Std Dev 0

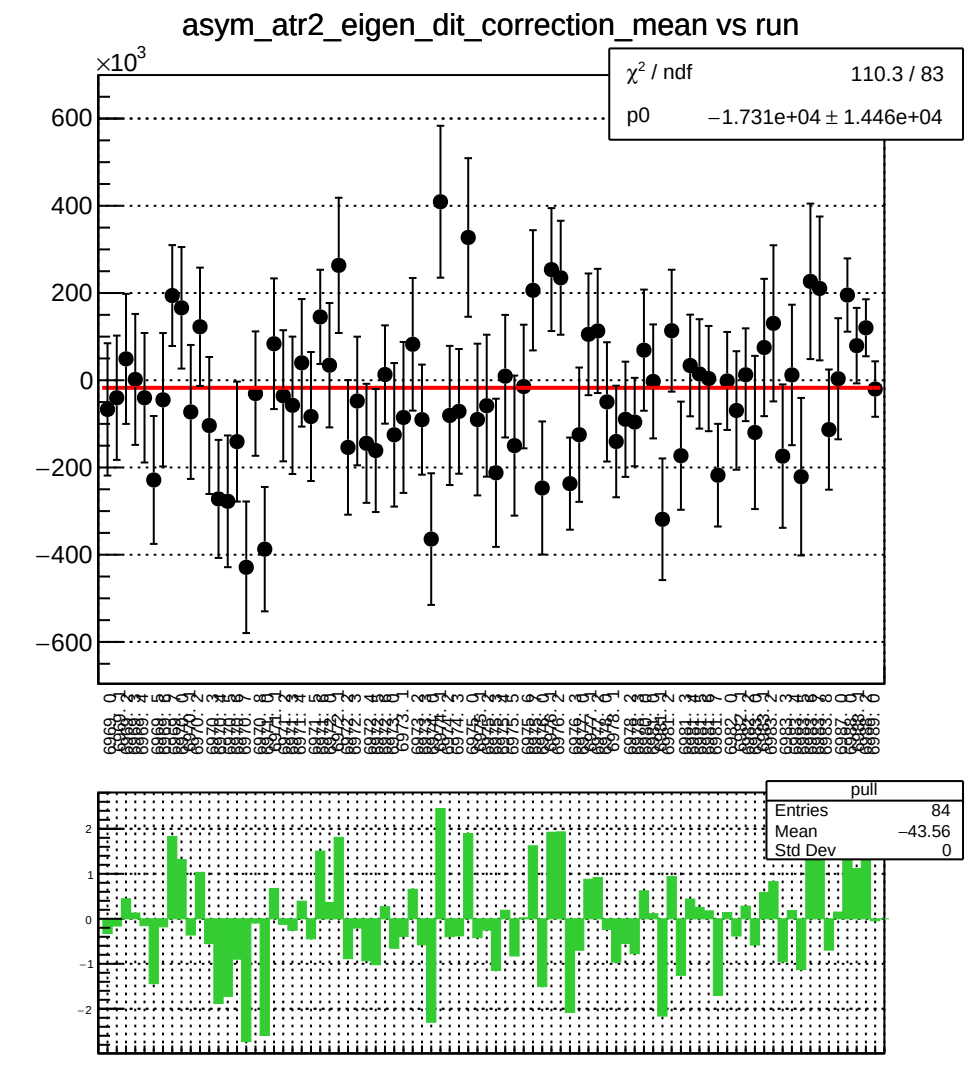

pull1D
Entries 84
Mean −0.05409
Std Dev 1.144

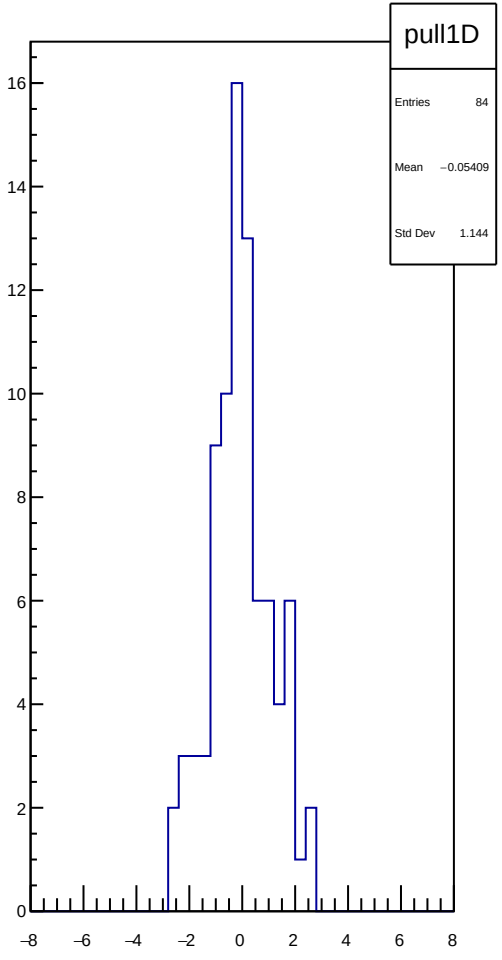

asym_atr2_dit_correction_rms vs run
χ^2 / ndf 5.671e+04 / 83
p0 1.3e+04 ± 10.22
18000
16000
14000
12000
10000
8000

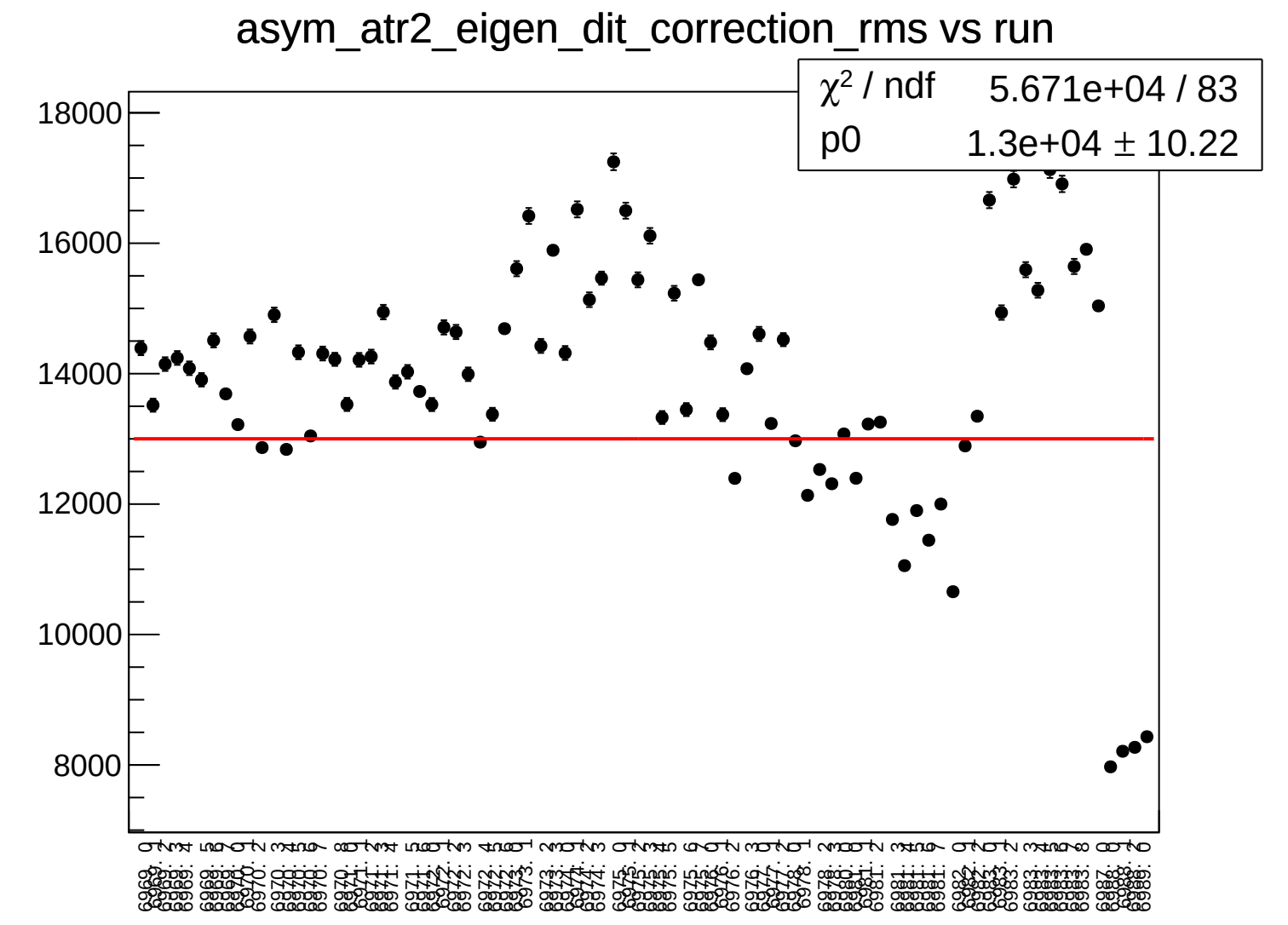

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 83.39 / 83
p0 1249 ± 2827
pull
Entries 84
Mean 466
Std Dev 0

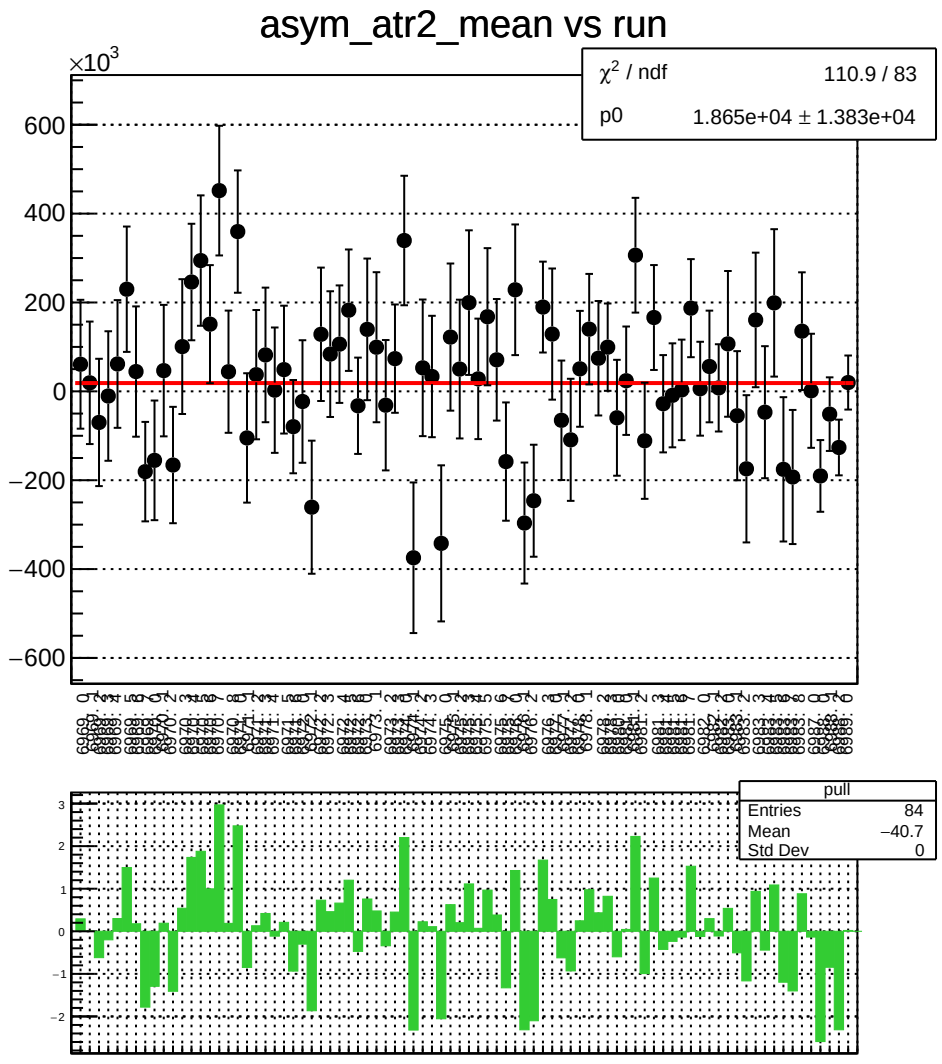

pull1D
Entries 84
Mean 0.001614
Std Dev 0.9964

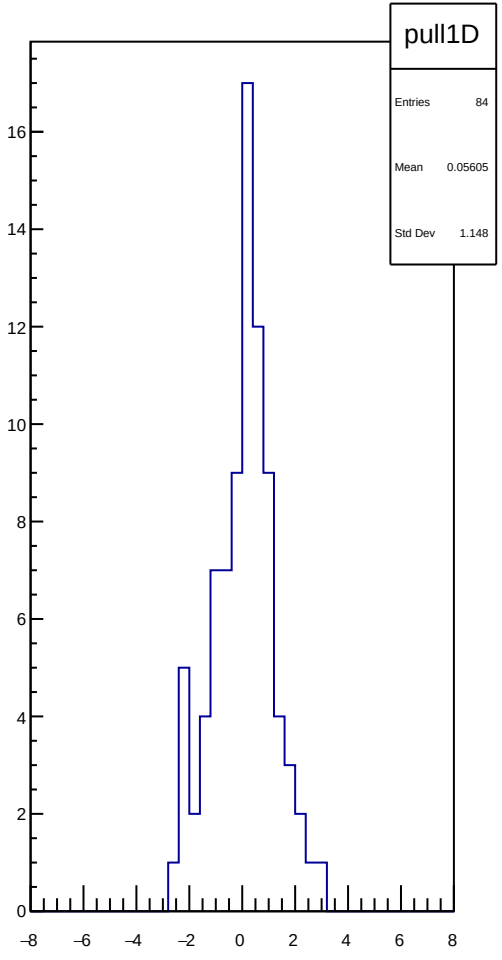

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 2096 / 83
p0 2584 ± 1.999
2900
2800
2700
2600
2500

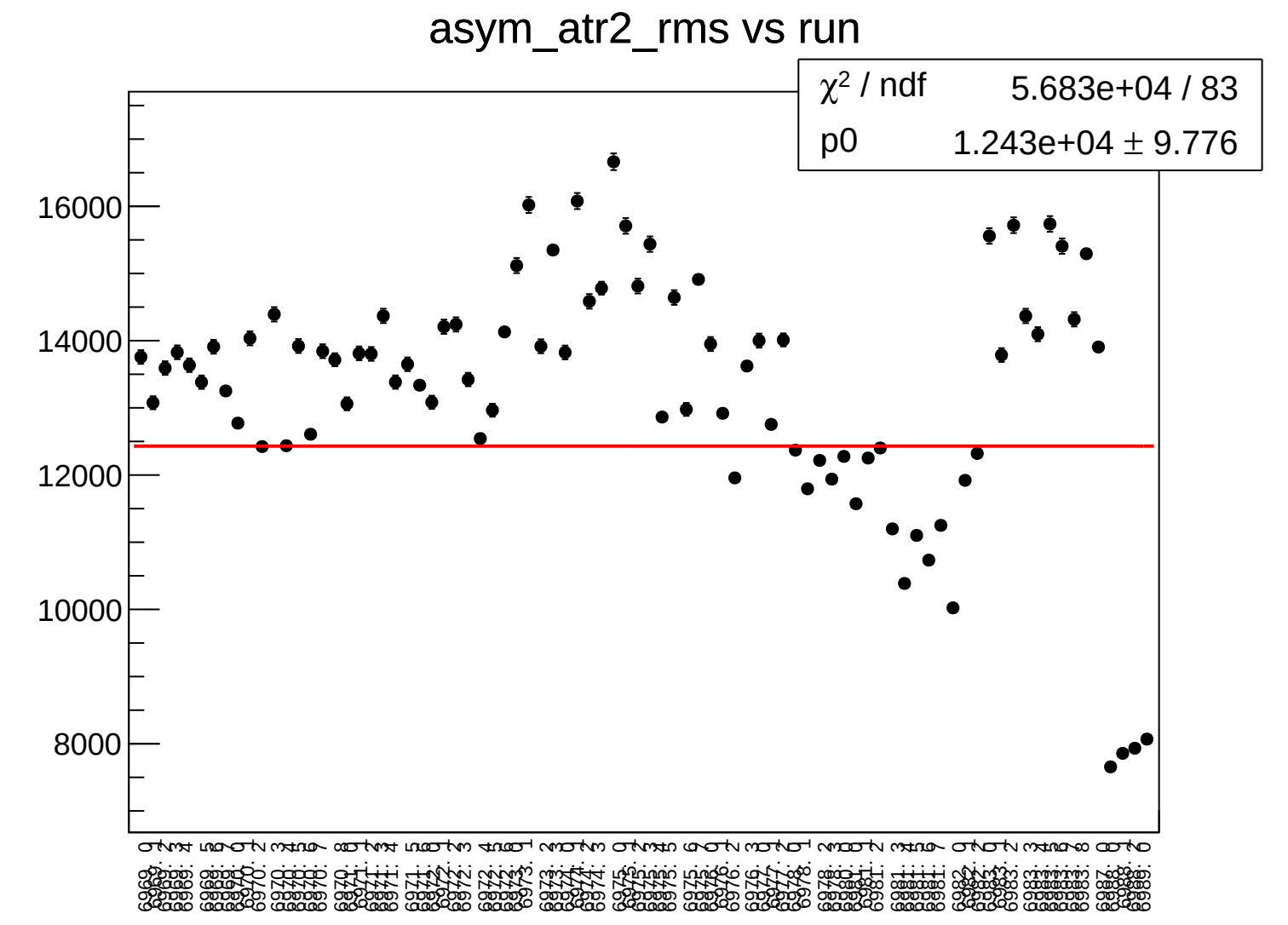

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 110.3 / 83
p0 −1.731e+04 ± 1.446e+04
pull
Entries 84
Mean −43.56
Std Dev 0

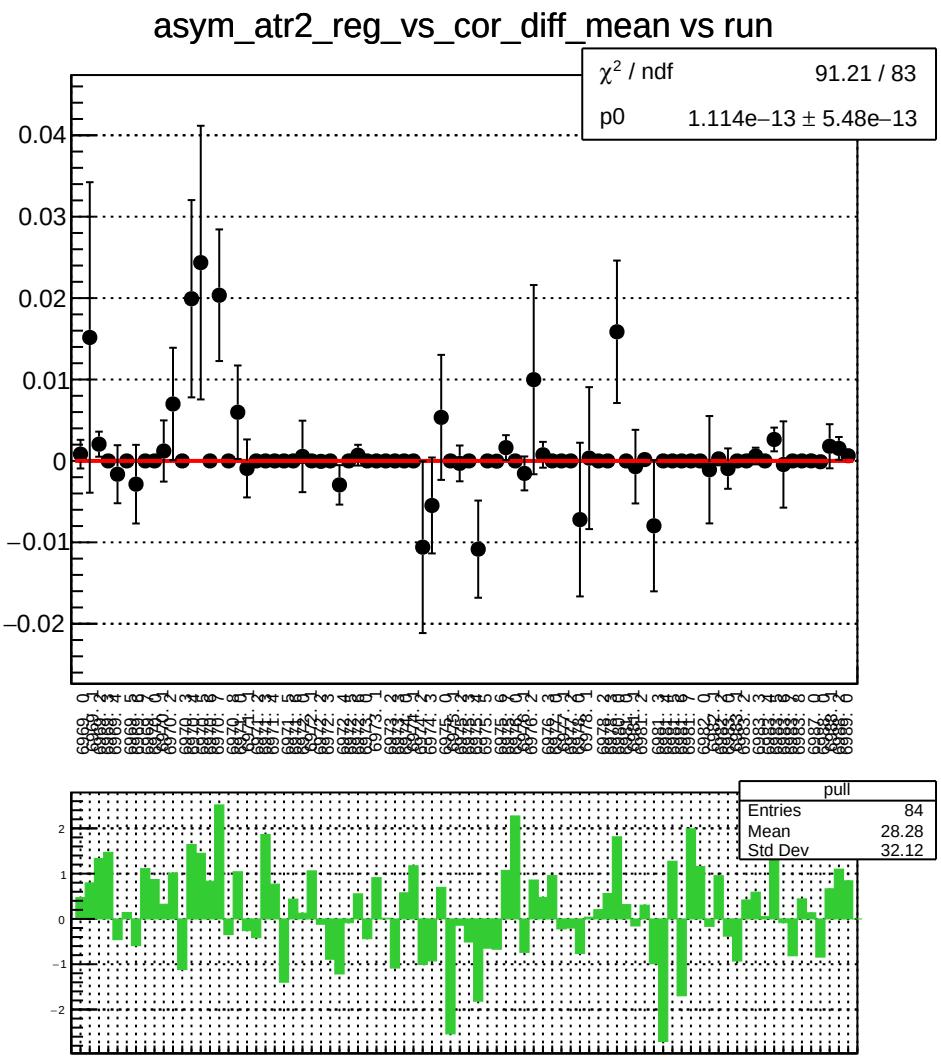

pull1D
Entries 84
Mean −0.05409
Std Dev 1.144

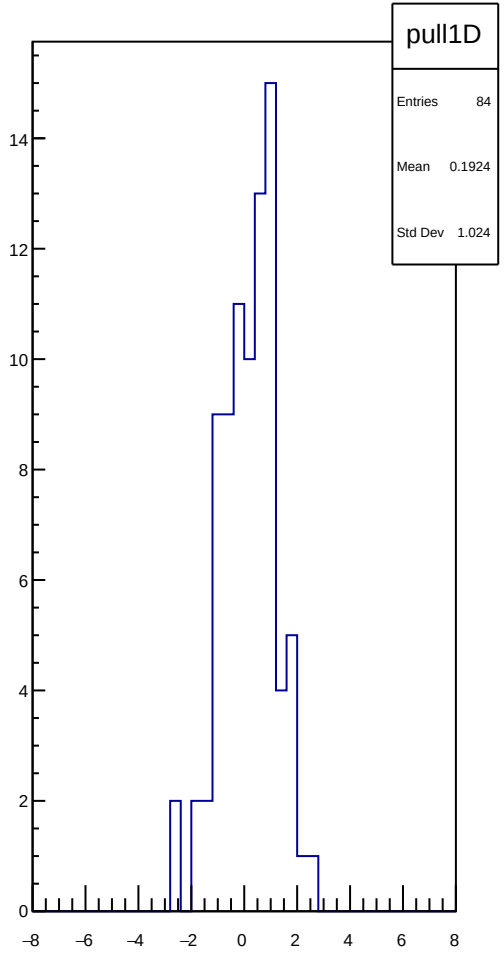

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 5.671e+04 / 83
p0 1.3e+04 ± 10.22
18000
16000
14000
12000
10000
8000

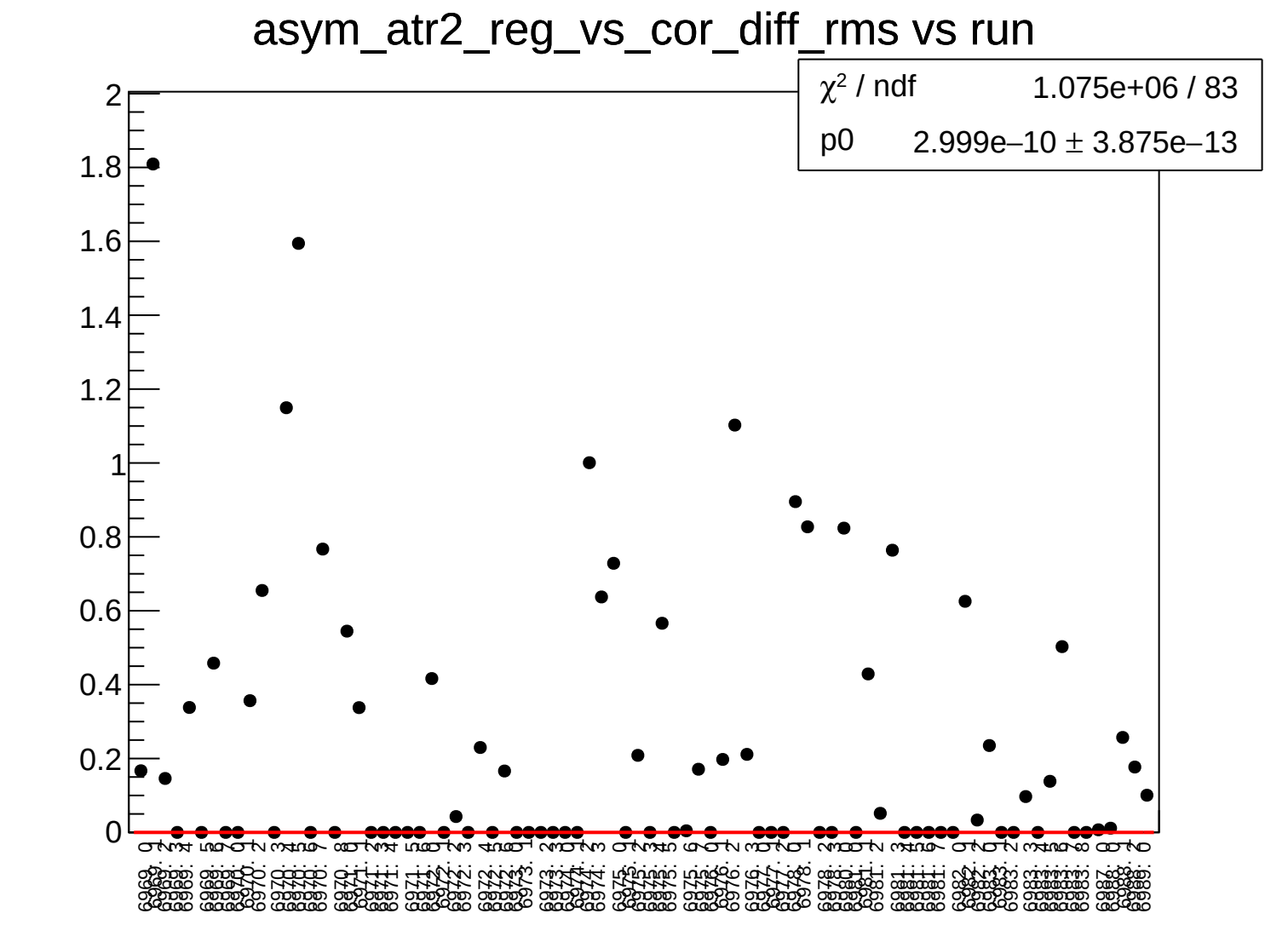

asym_atr2_mean vs run
×10^3
χ² / ndf 110.9 / 83
p0 1.865e+04 ± 1.383e+04
pull
Entries 84
Mean −40.7
Std Dev 0

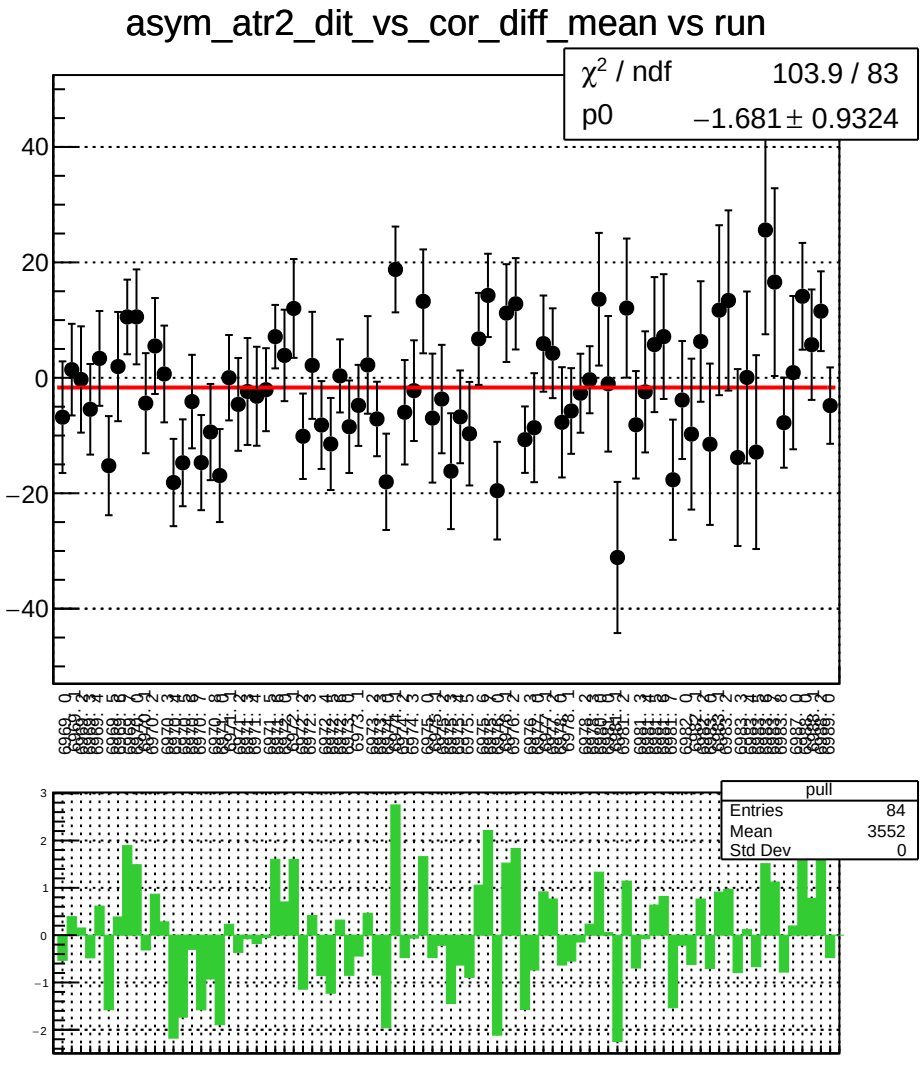

pull1D
Entries 84
Mean 0.05605
Std Dev 1.148

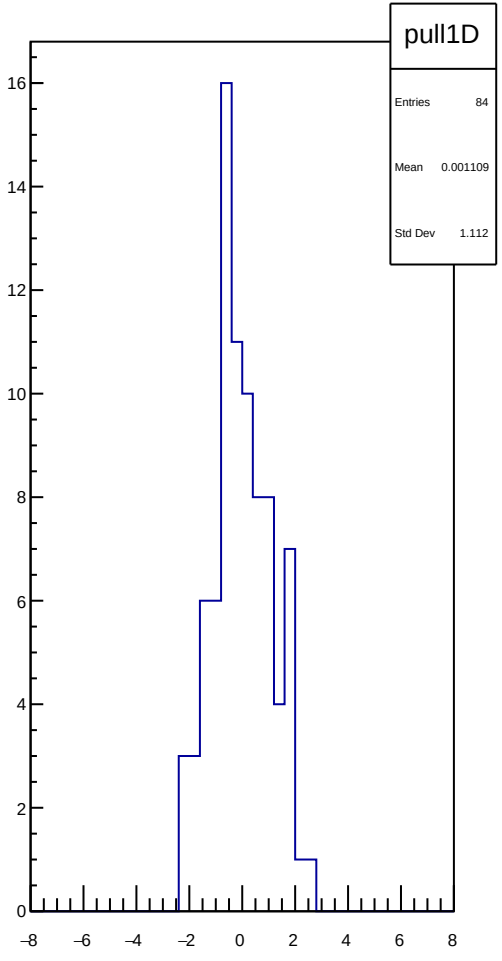

asym_atr2_rms vs run
χ² / ndf 5.683e+04 / 83
p0 1.243e+04 ± 9.776
16000
14000
12000
10000
8000

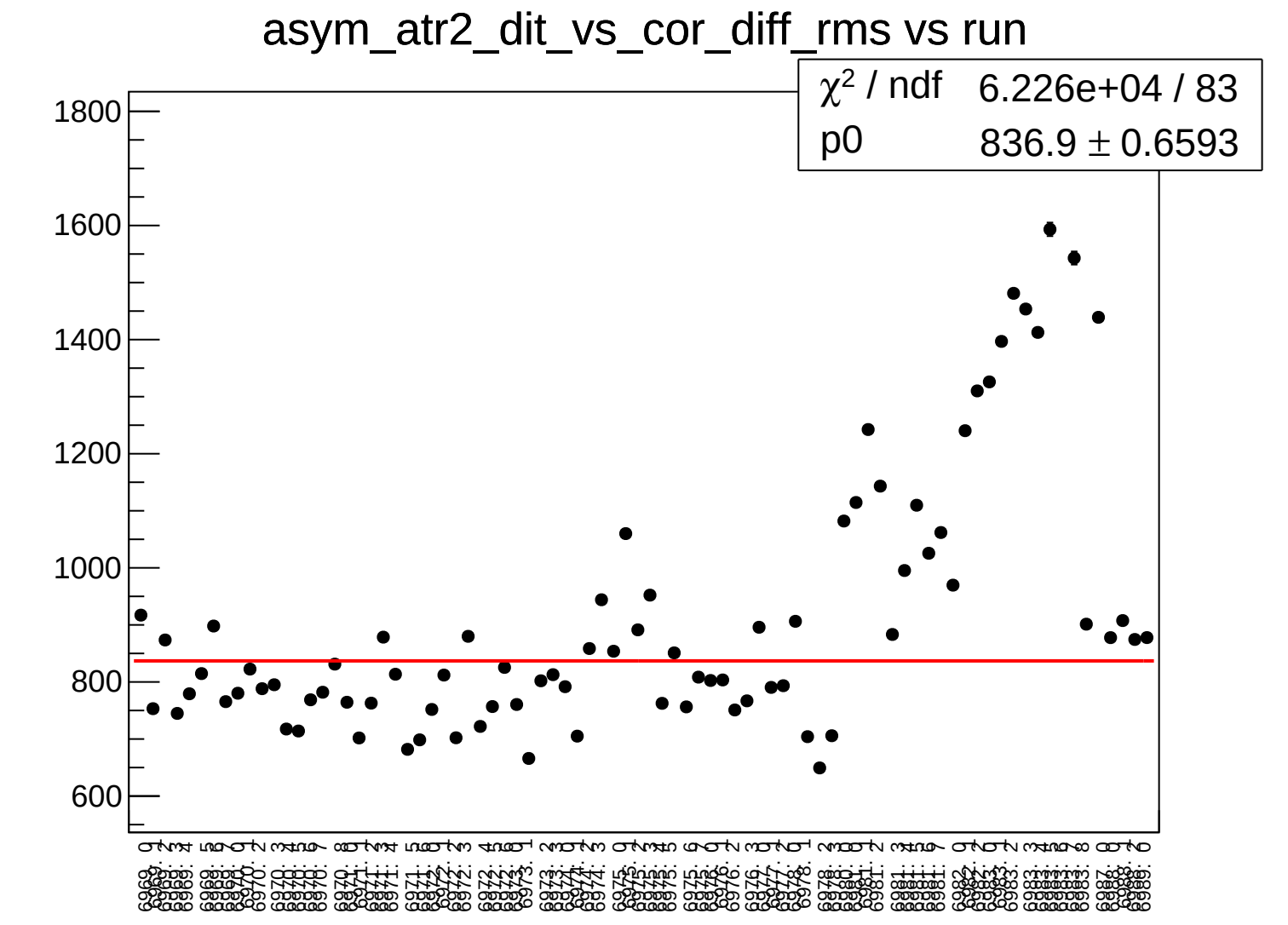

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 91.21 / 83
p0 1.114e−13 ± 5.48e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 28.28
Std Dev 32.12
2
1
0
−1
−2

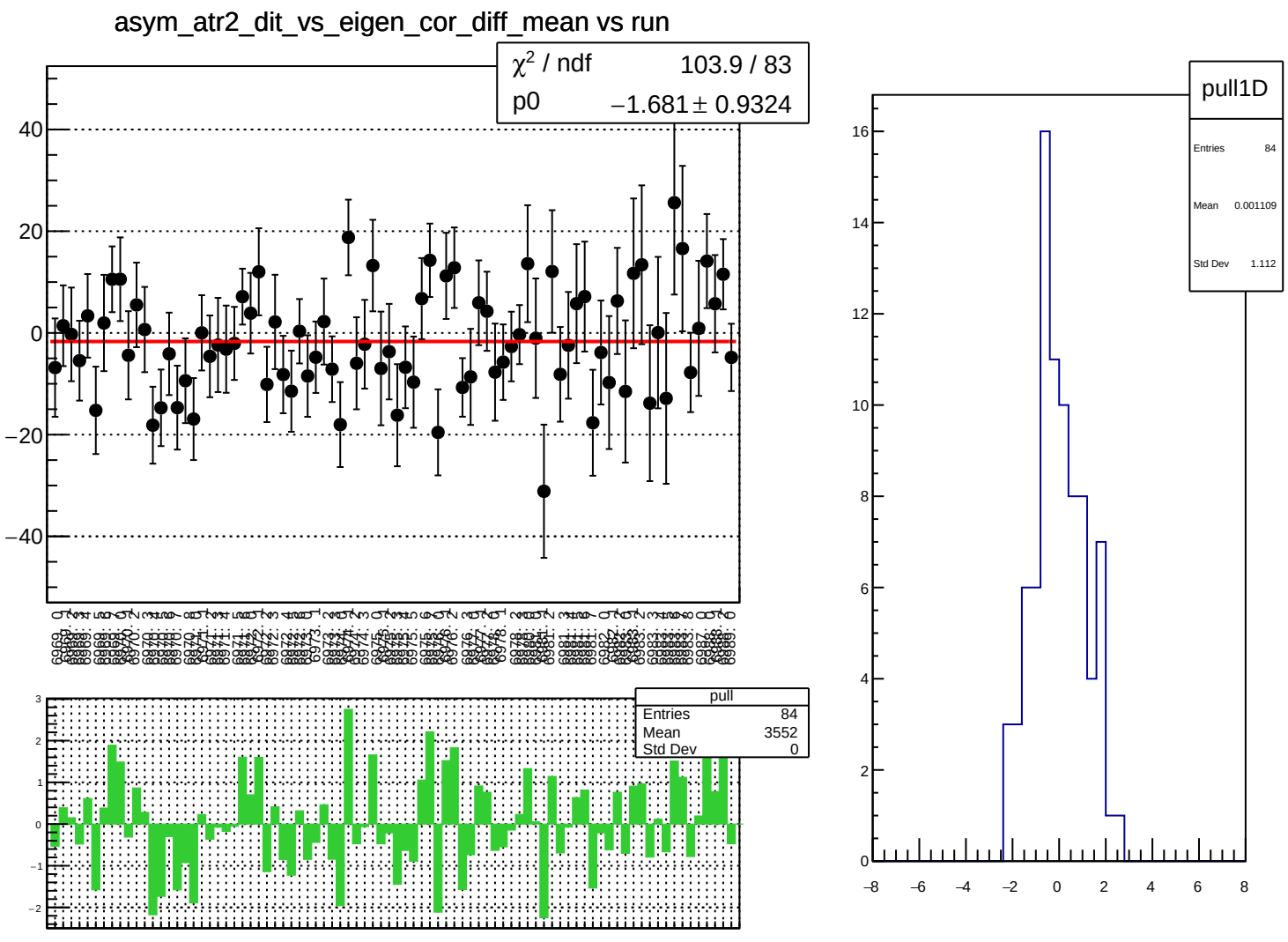

pull1D
Entries 84
Mean 0.1924
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

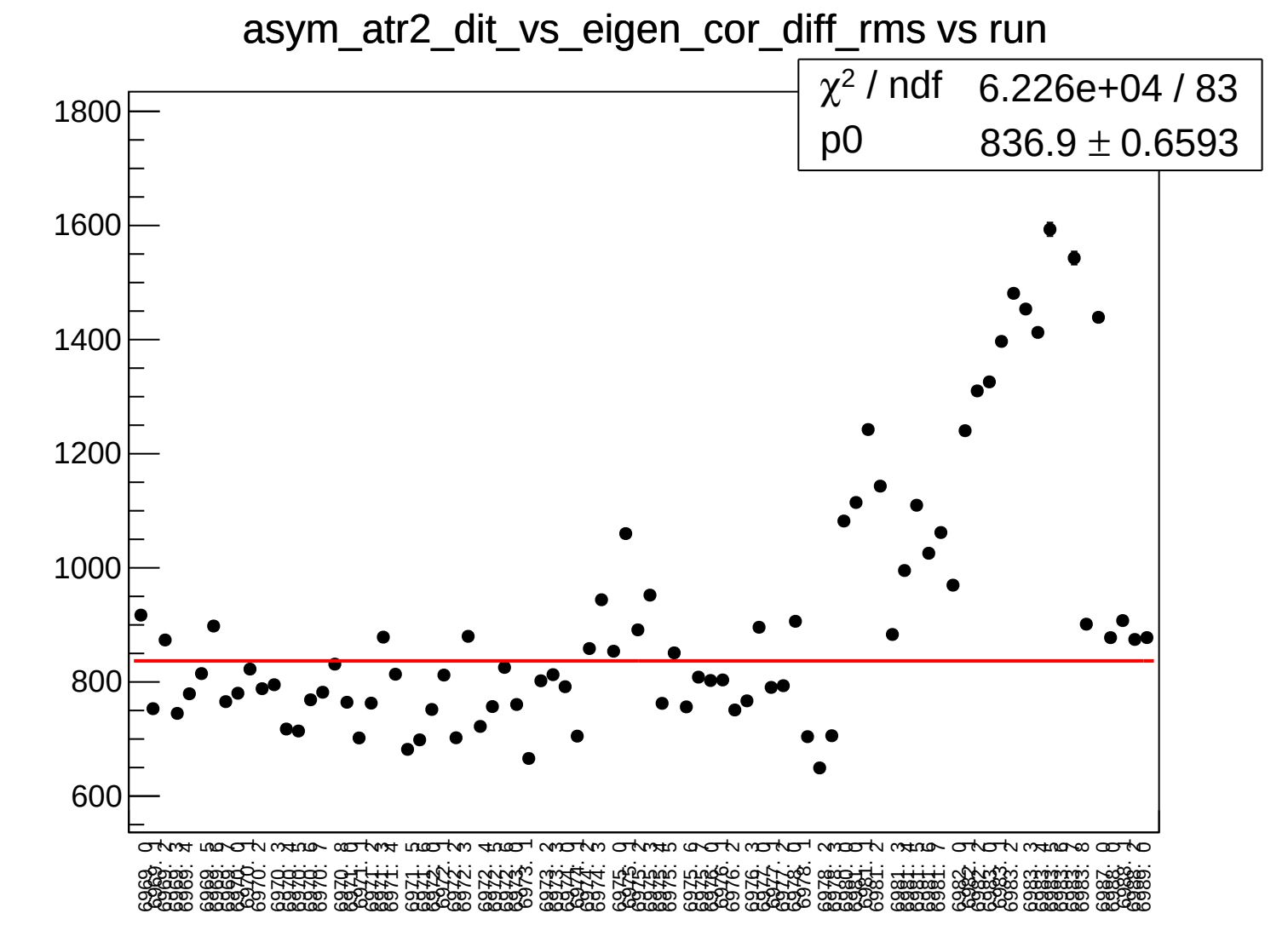

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.075e+06 / 83
p0 2.999e−10 ± 3.875e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

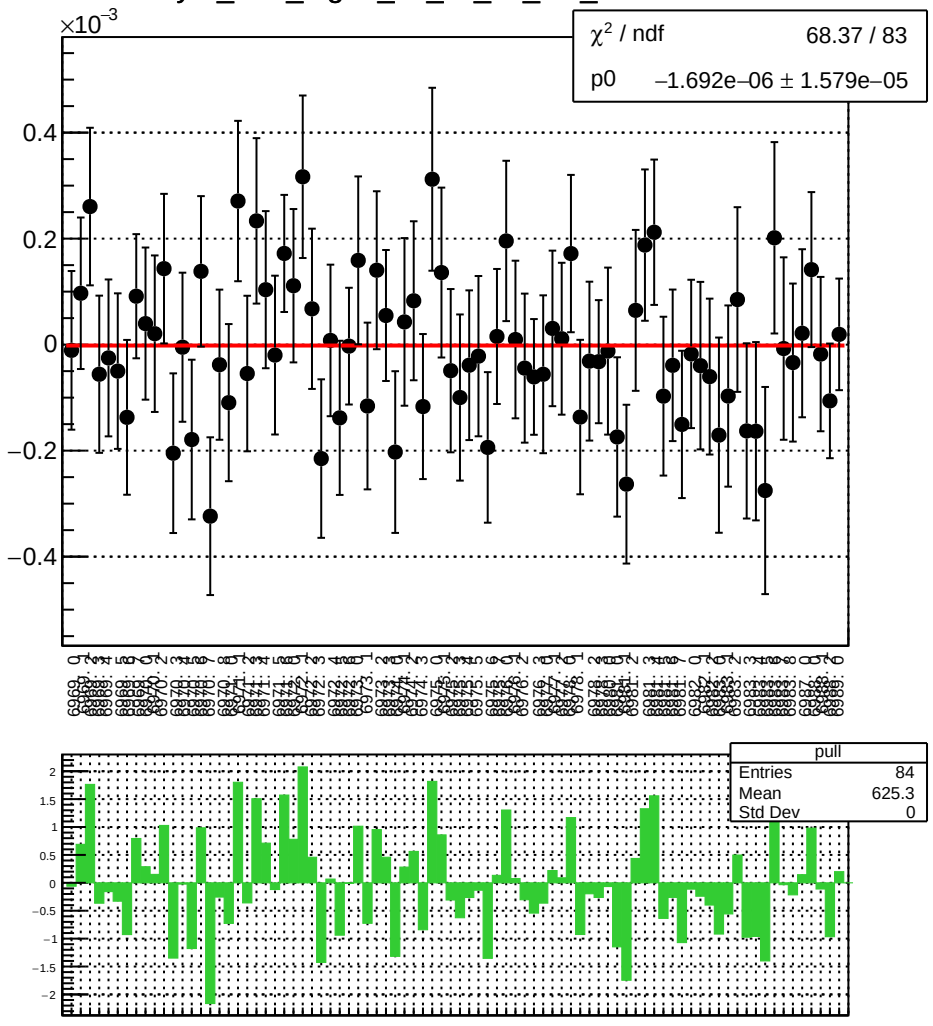

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 83
p0 −1.681 ± 0.9324
pull
Entries 84
Mean 3552
Std Dev 0

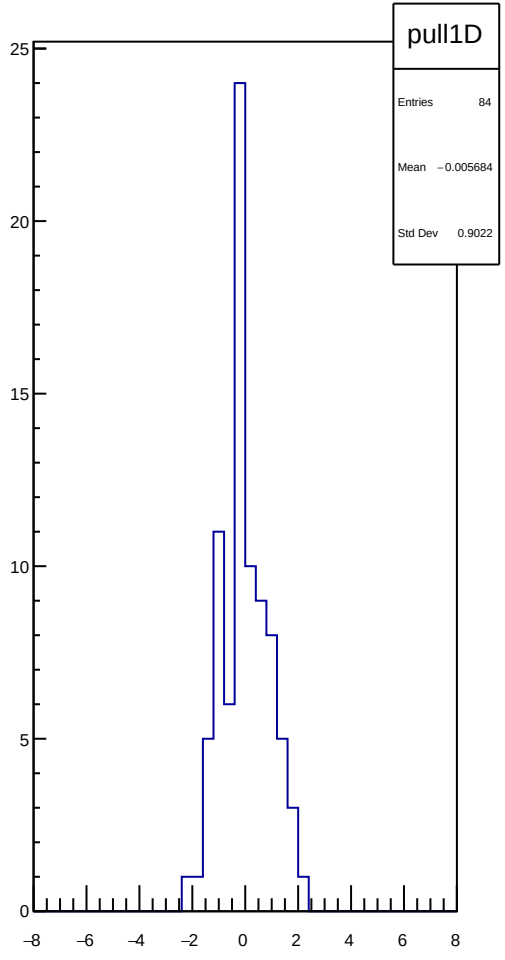

pull1D
Entries 84
Mean 0.001109
Std Dev 1.112

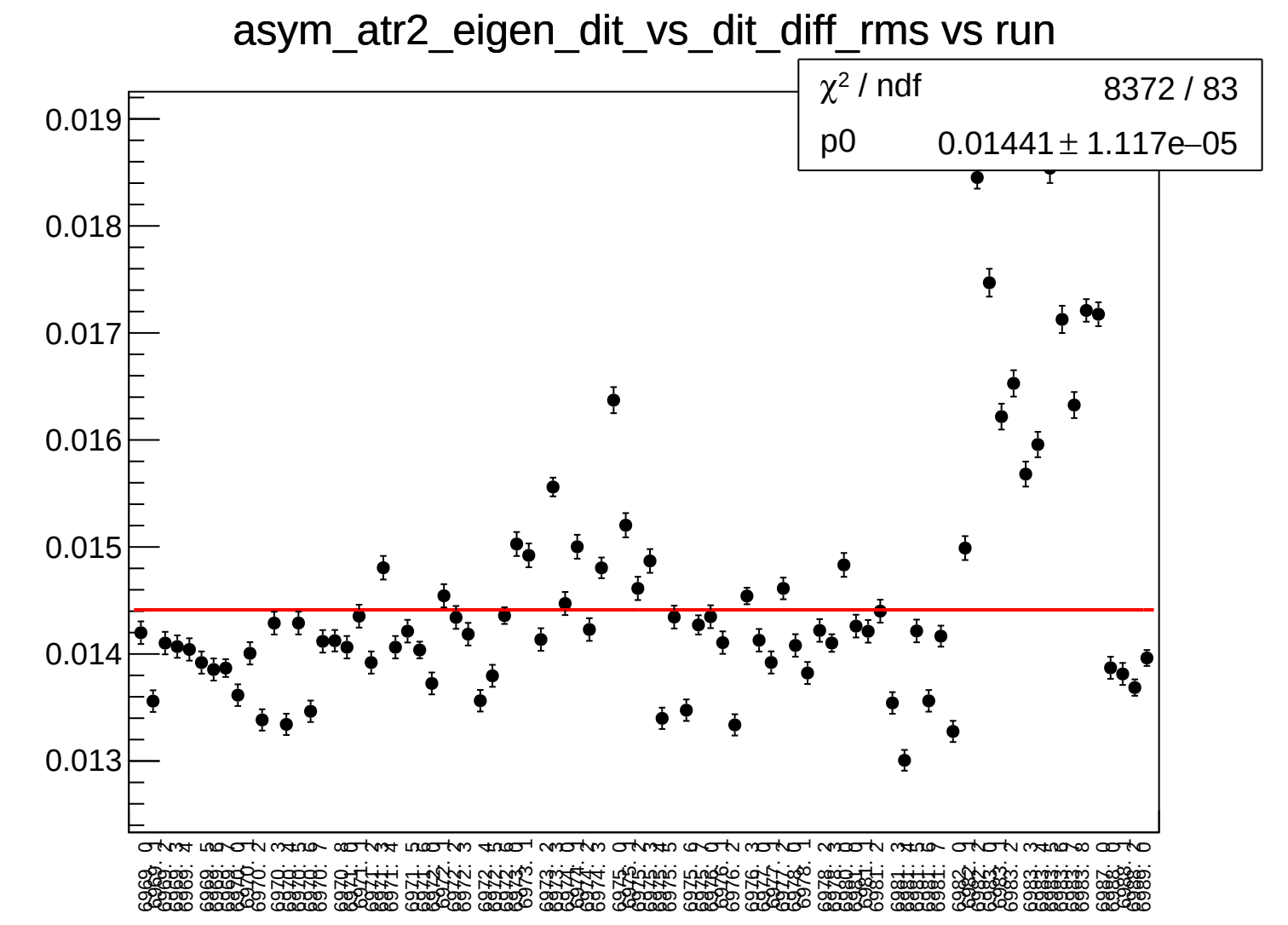

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.226e+04 / 83
p0 836.9 ± 0.6593
1800
1600
1400
1200
1000
800
600

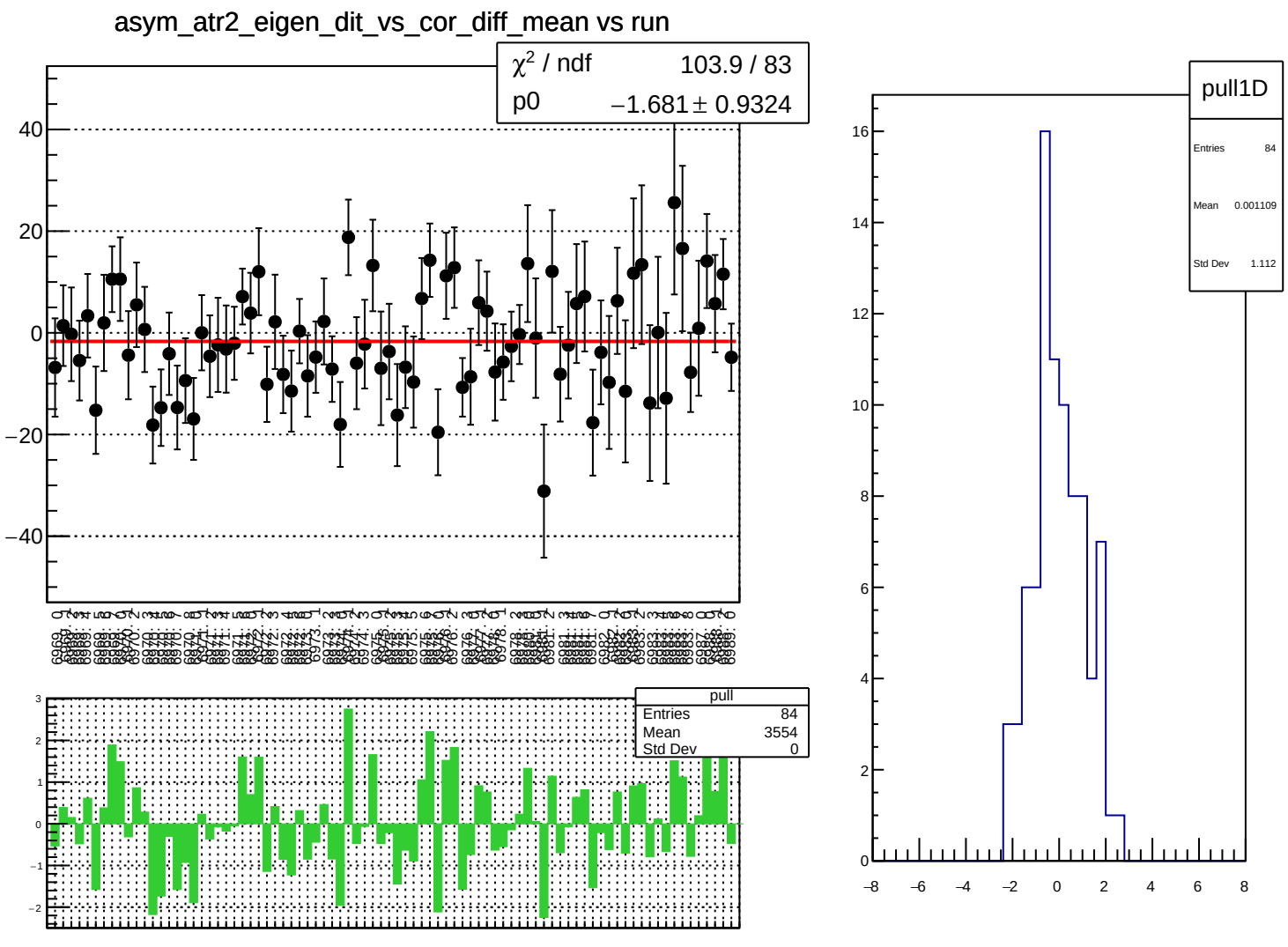

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 83
p0 −1.681 ± 0.9324
pull
Entries 84
Mean 3552
Std Dev 0
pull1D
Entries 84
Mean 0.001109
Std Dev 1.112

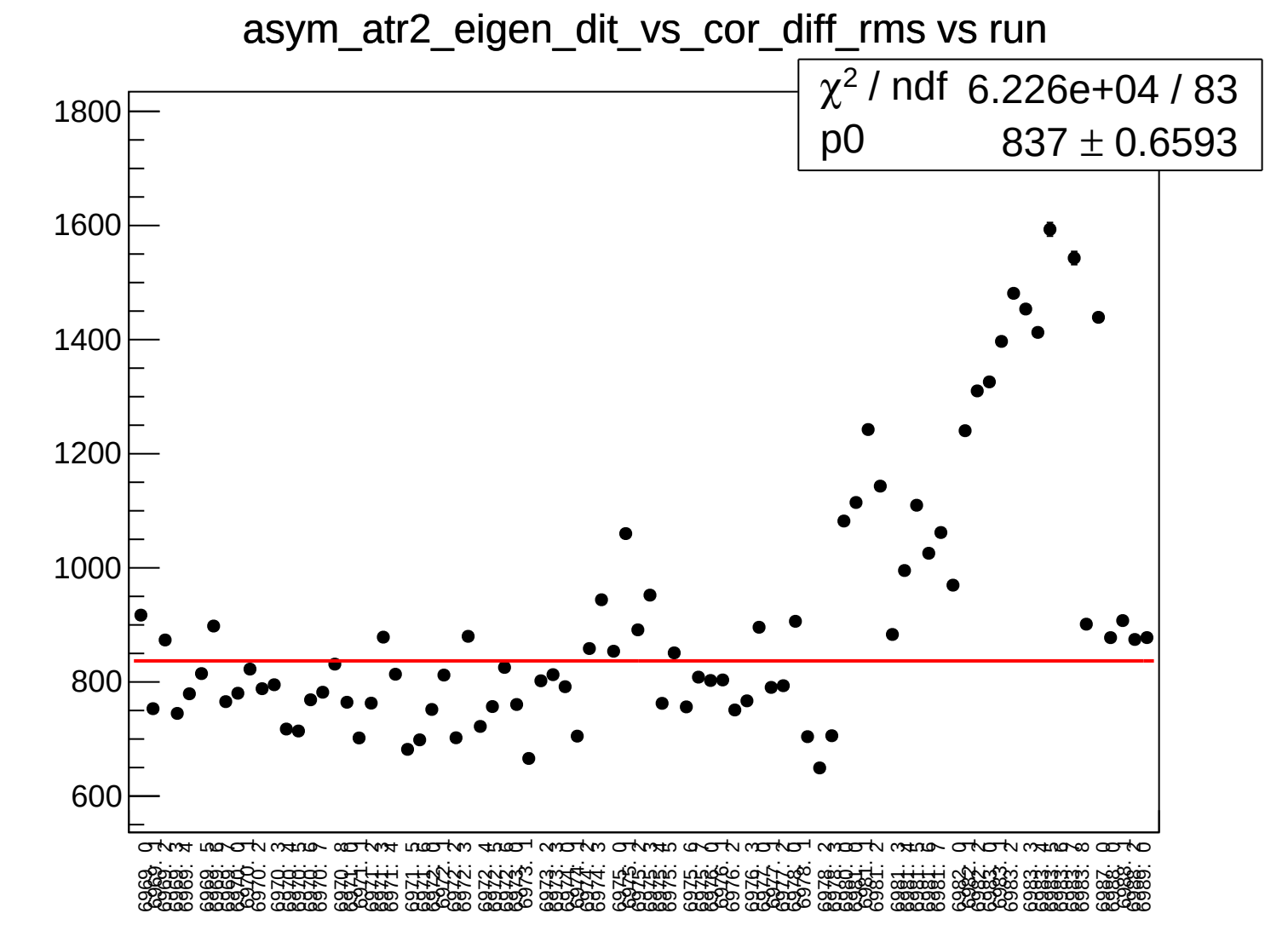

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.226e+04 / 83
p0 836.9 ± 0.6593
1800
1600
1400
1200
1000
800
600

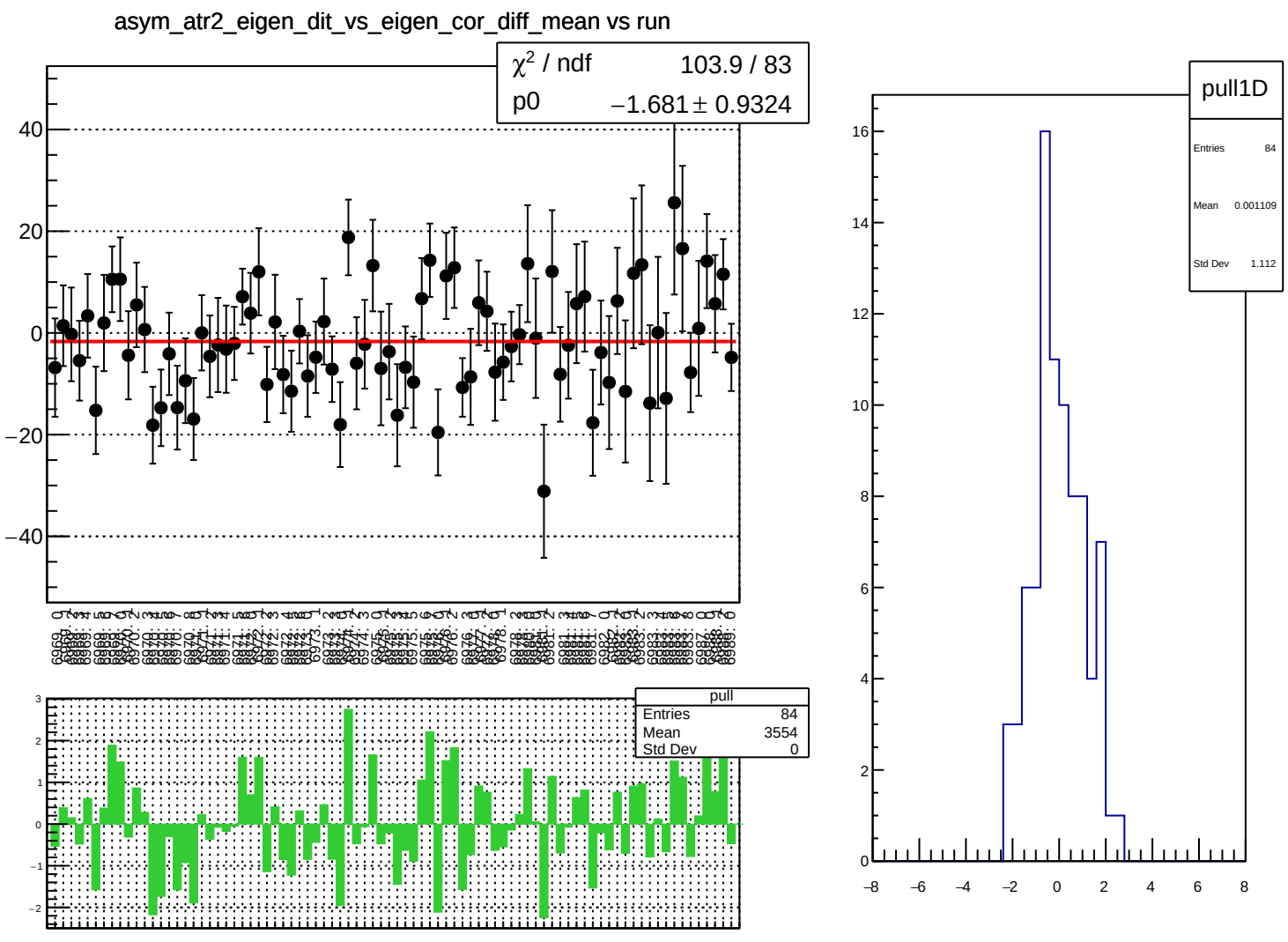

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 68.37 / 83
p0 −1.692e−06 ± 1.579e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 84
Mean 625.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

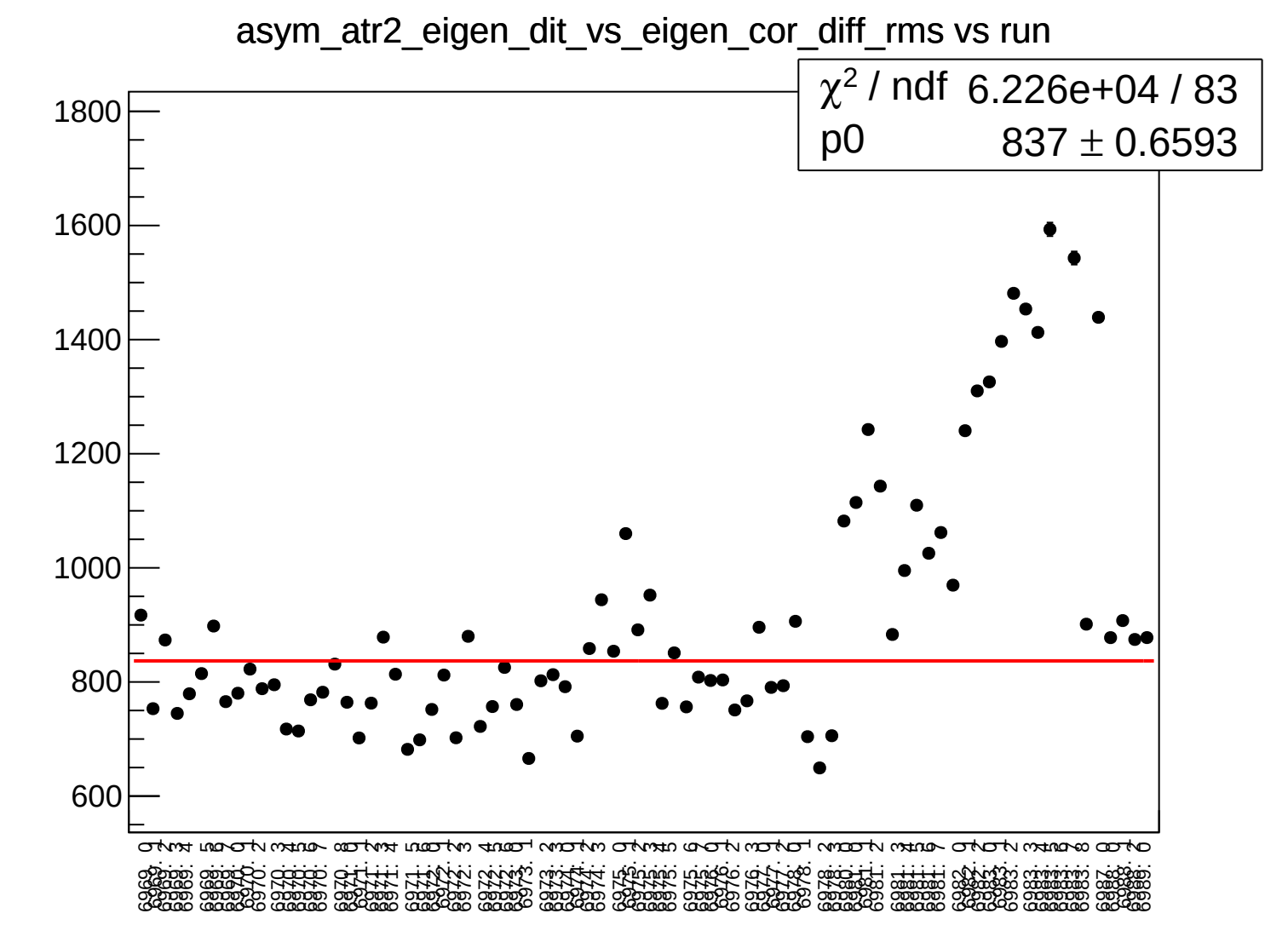

pull1D
Entries 84
Mean −0.005684
Std Dev 0.9022
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

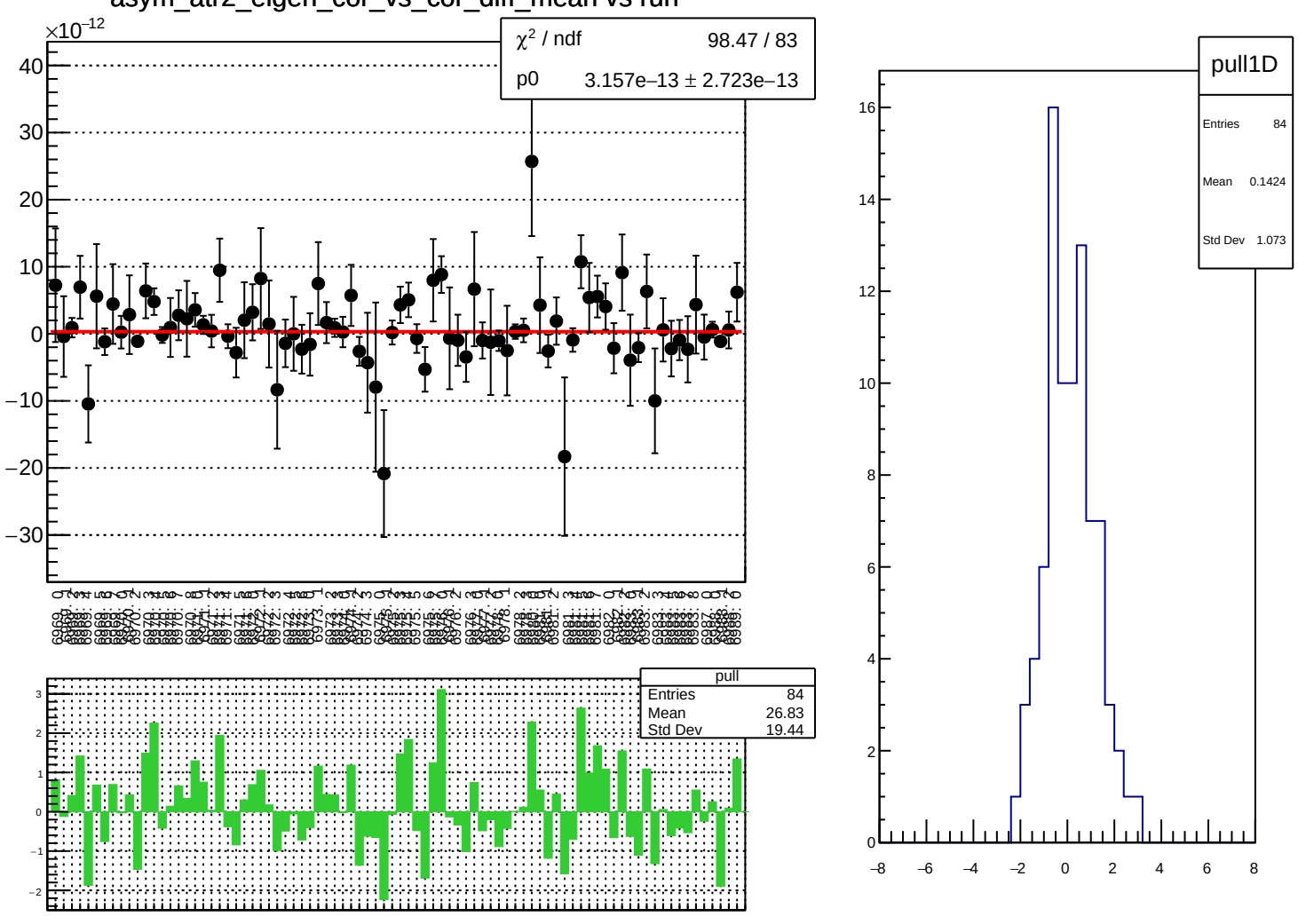

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8372 / 83
p0 0.01441 ± 1.117e–05
0.019
0.018
0.017
0.016
0.015
0.014
0.013

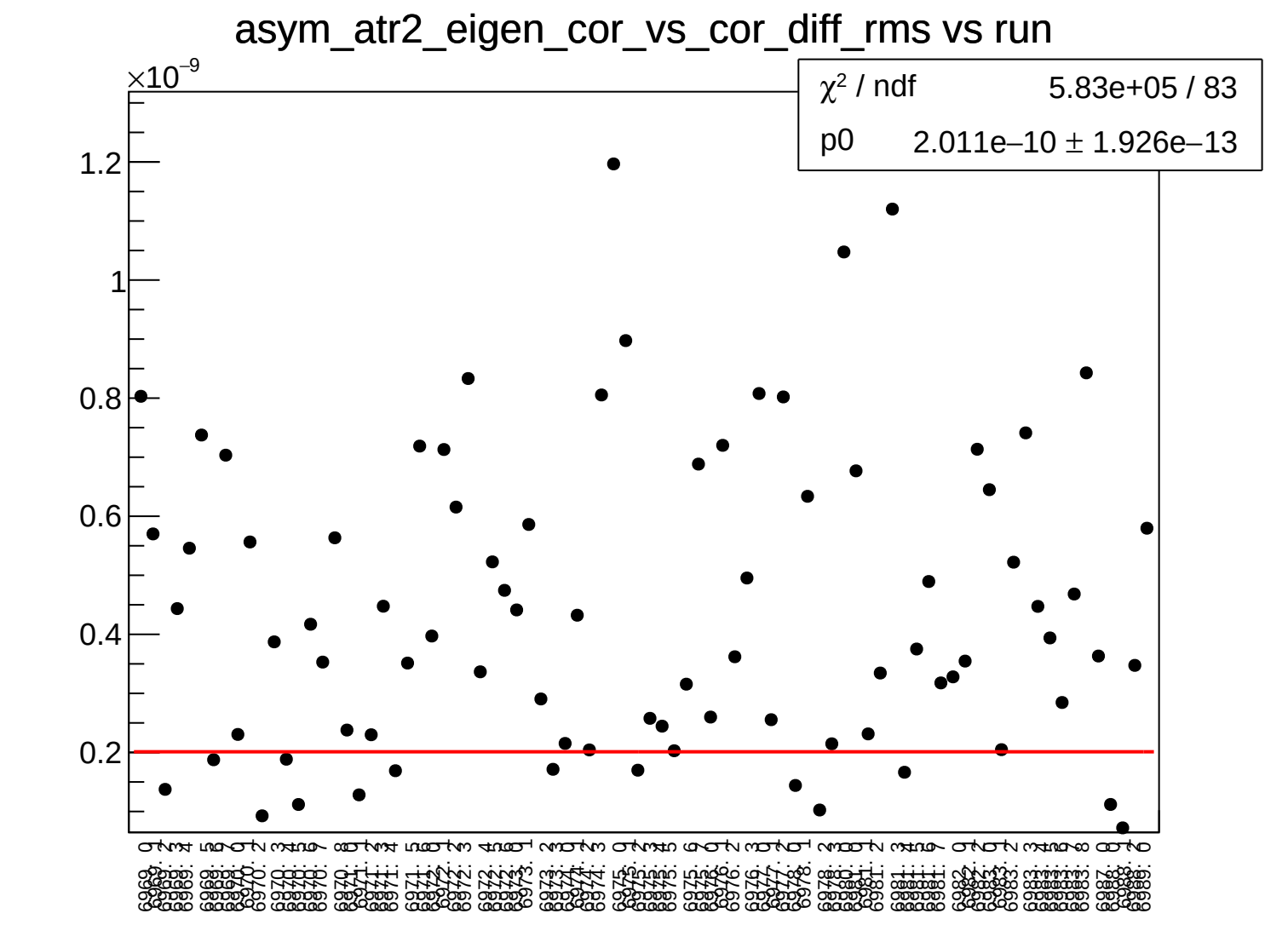

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 83
p0 −1.681 ± 0.9324
pull
Entries 84
Mean 3554
Std Dev 0
pull1D
Entries 84
Mean 0.001109
Std Dev 1.112

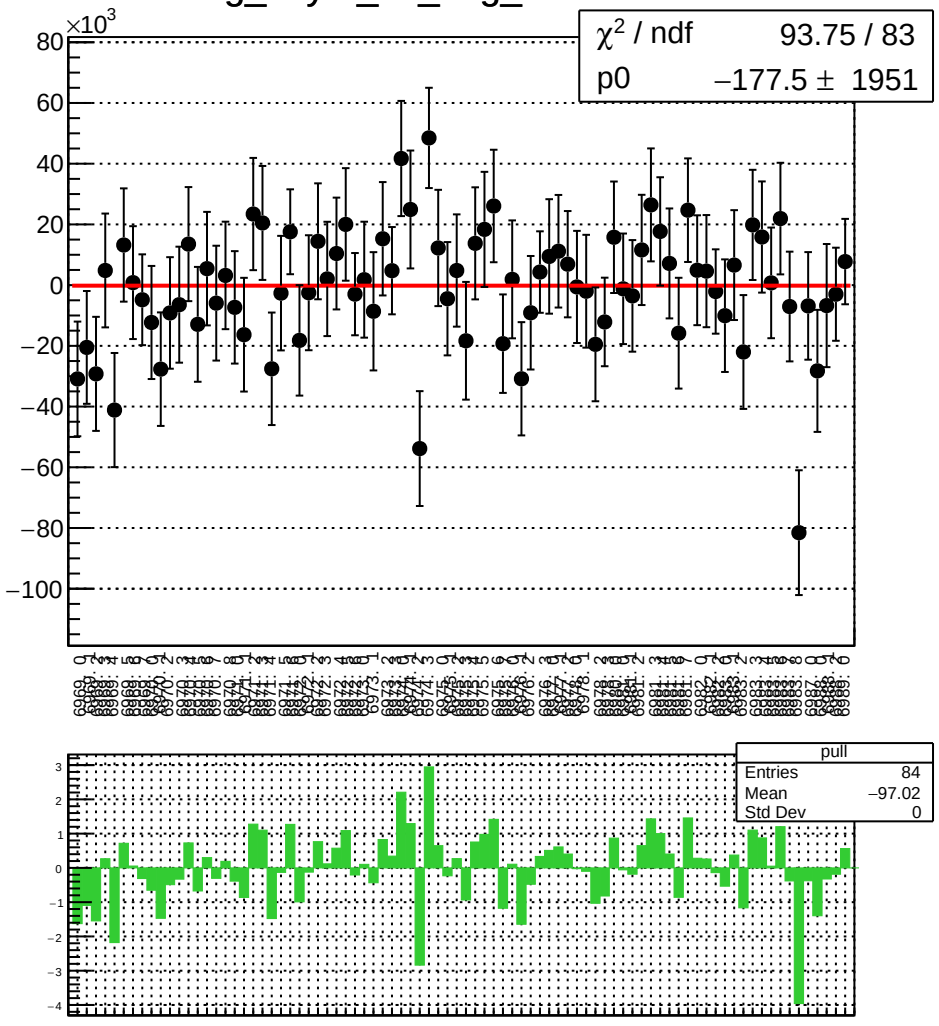

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.226e+04 / 83
p0 837 ± 0.6593
1800
1600
1400
1200
1000
800
600

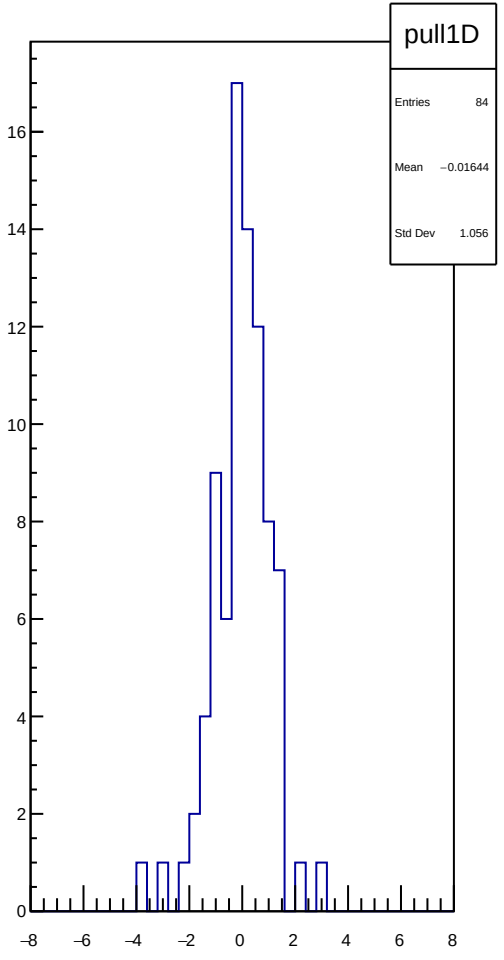

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 83
p0 −1.681 ± 0.9324
pull
Entries 84
Mean 3554
Std Dev 0
pull1D
Entries 84
Mean 0.001109
Std Dev 1.112

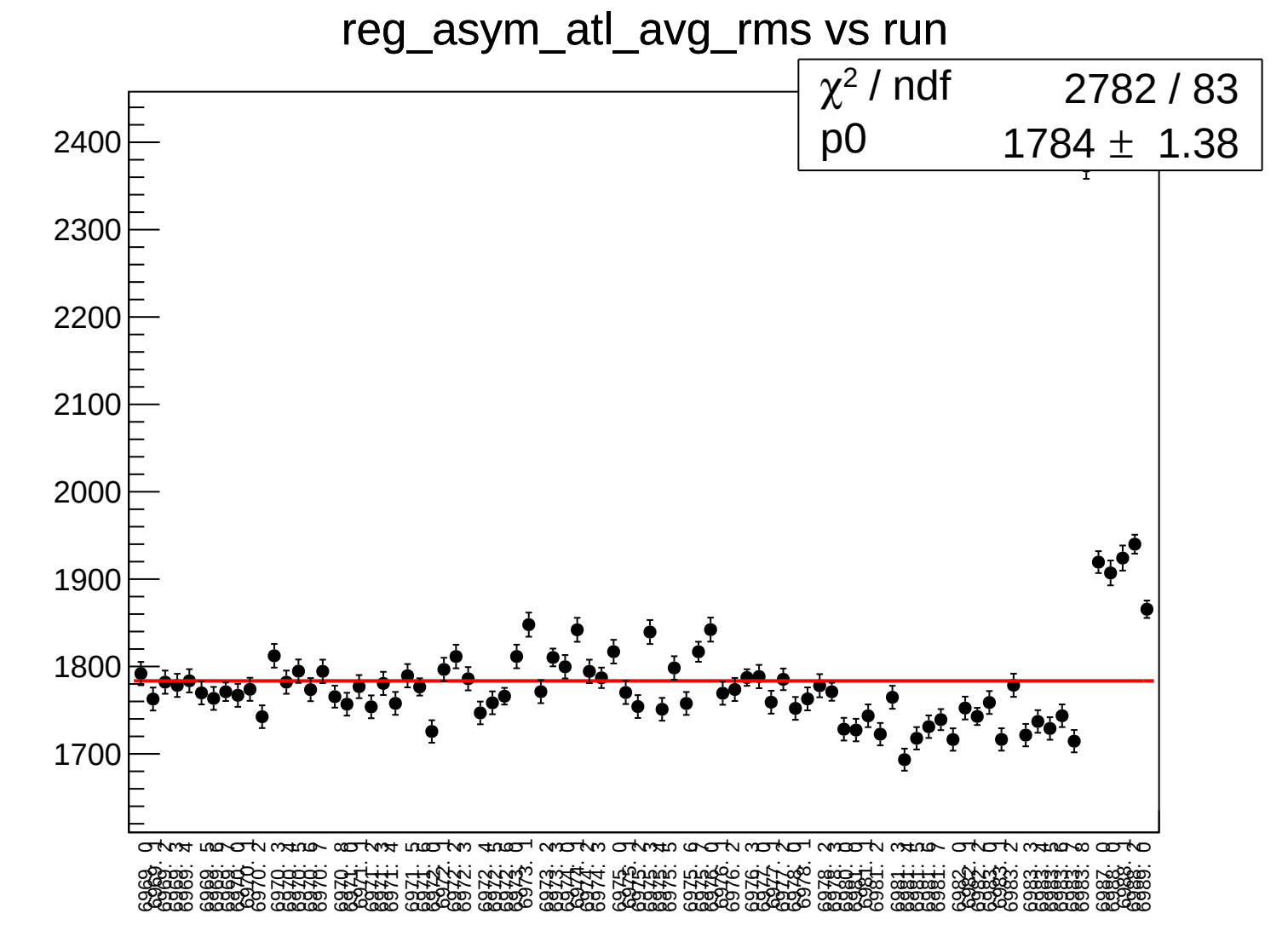

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.226e+04 / 83
p0 837 ± 0.6593
1800
1600
1400
1200
1000
800
600

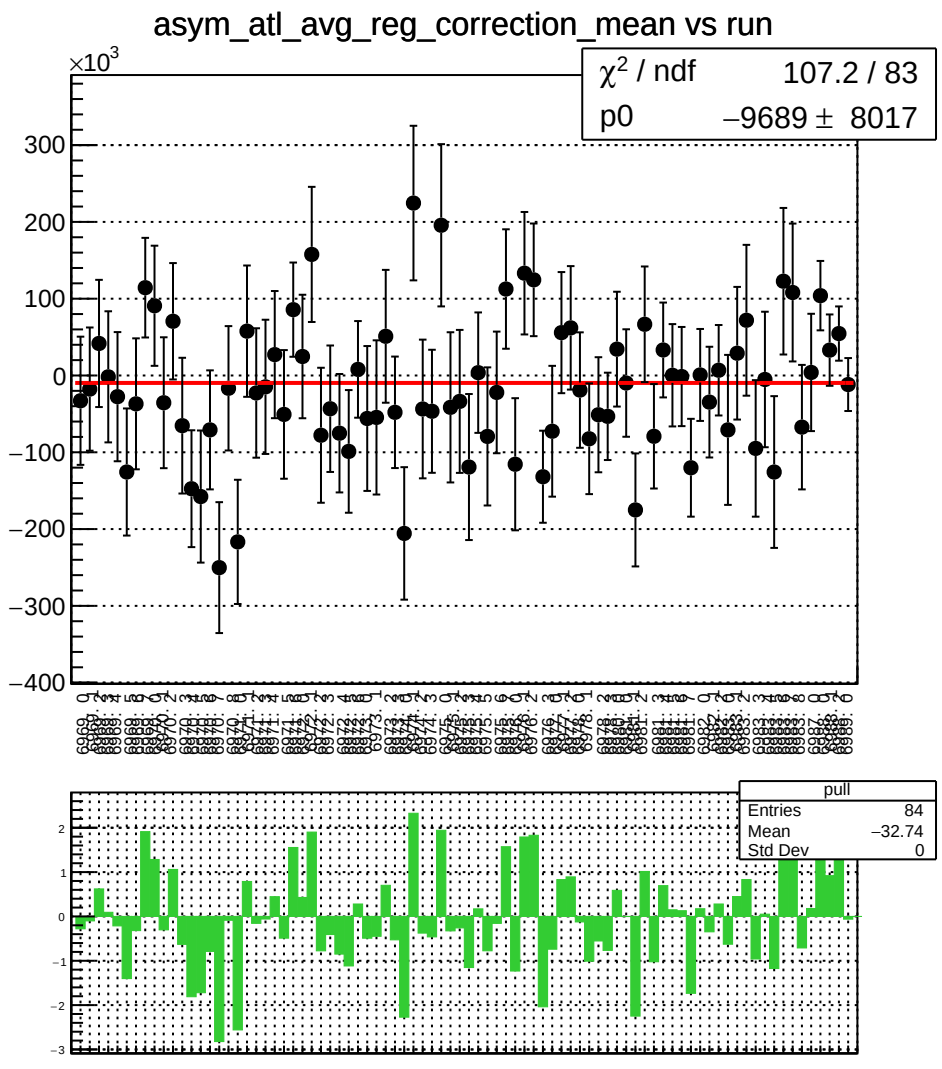

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.47 / 83
p0 3.157e−13 ± 2.723e−13
pull
Entries 84
Mean 26.83
Std Dev 19.44
pull1D
Entries 84
Mean 0.1424
Std Dev 1.073

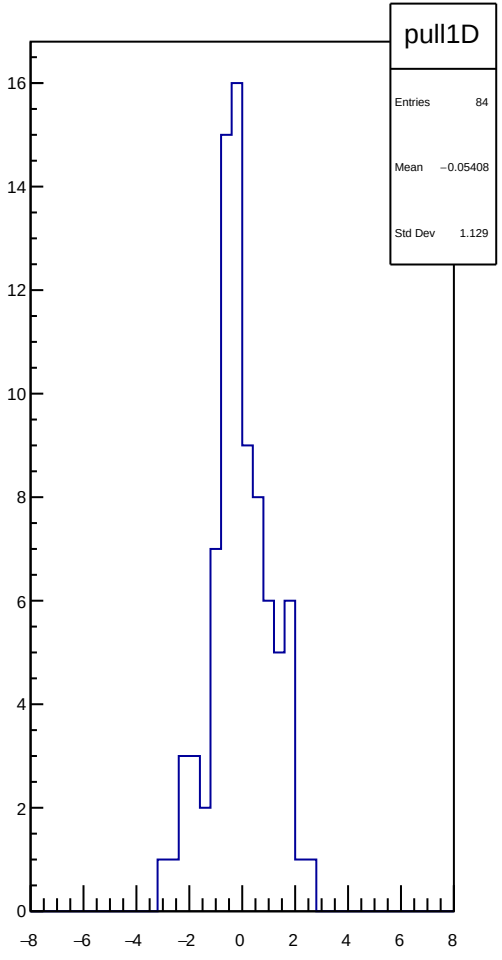

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.83e+05 / 83
p0 2.011e−10 ± 1.926e−13
1.2
1
0.8
0.6
0.4
0.2

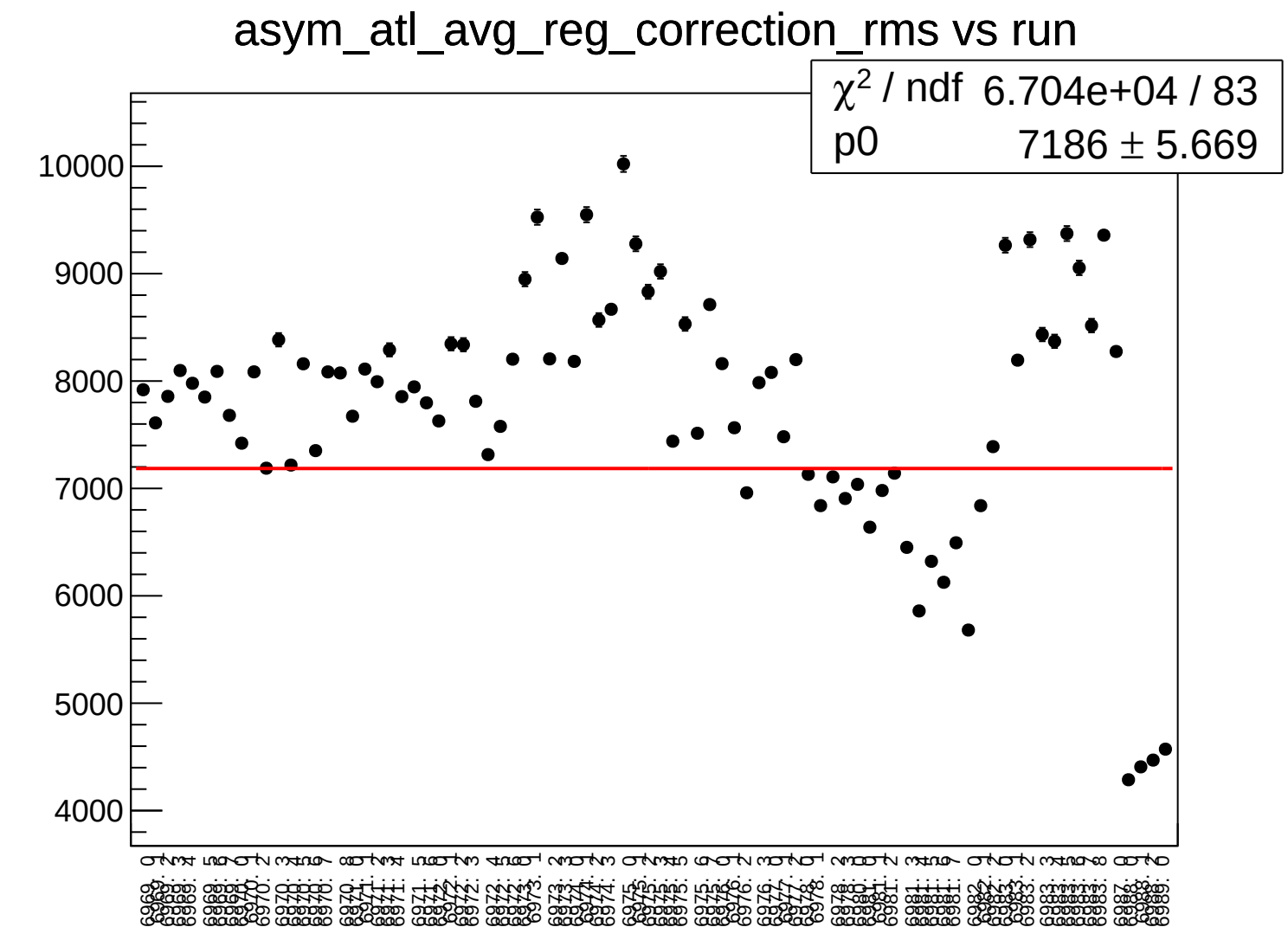

reg_asym_atl_avg_mean vs run
χ^2 / ndf 93.75 / 83
p0 −177.5 ± 1951
×10^3
pull
Entries 84
Mean −97.02
Std Dev 0

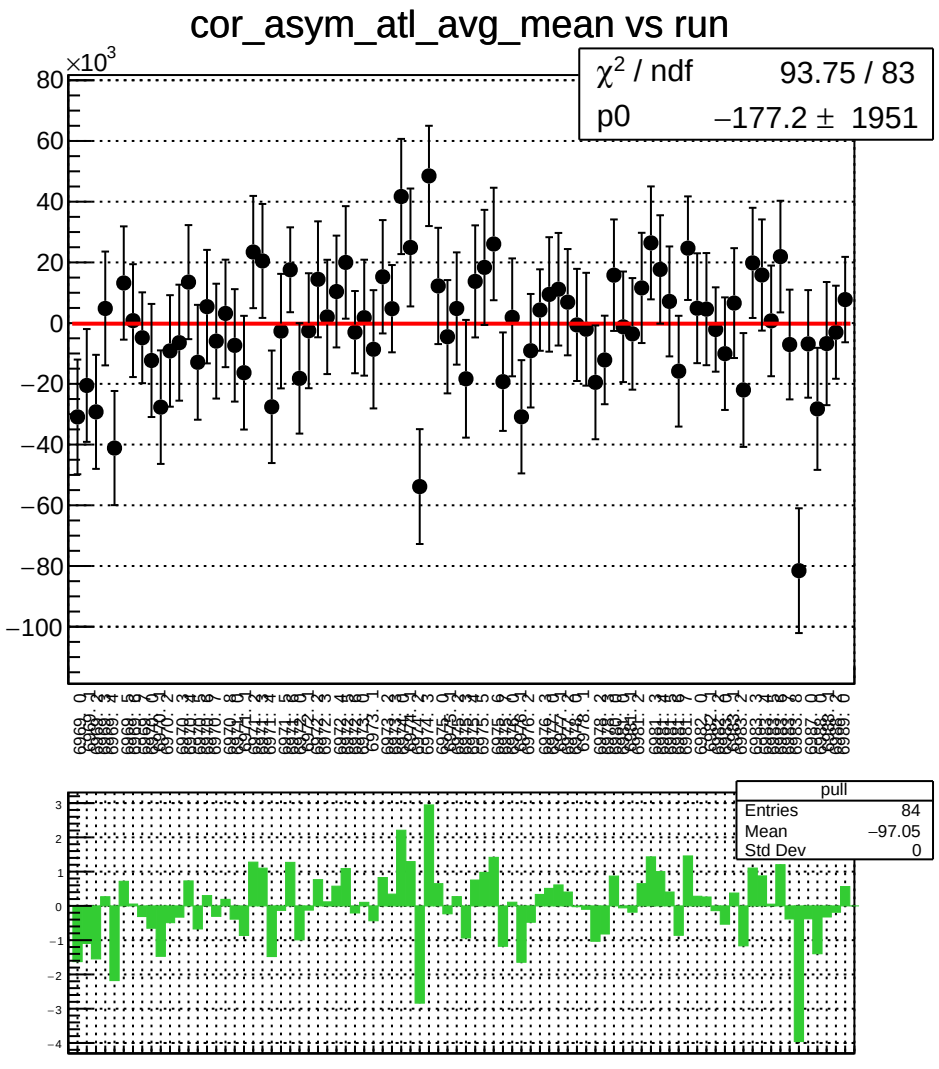

pull1D
Entries 84
Mean −0.01644
Std Dev 1.056

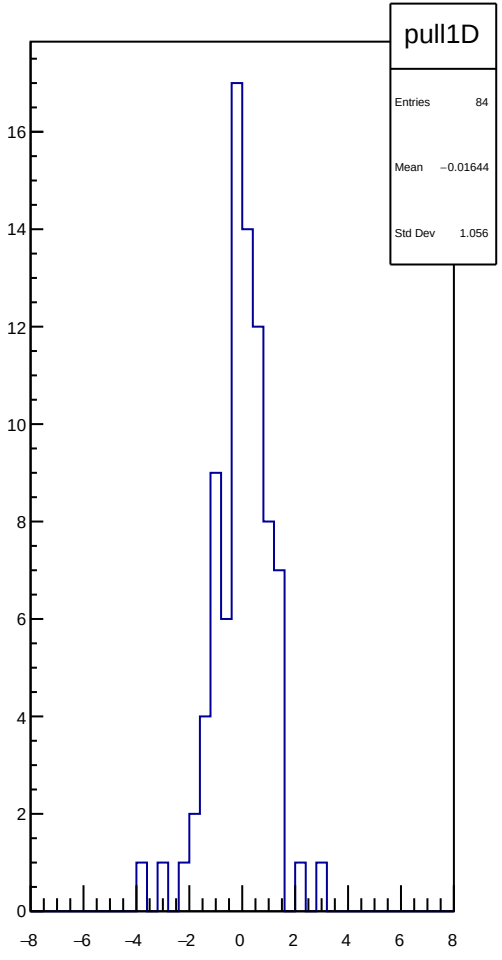

reg_asym_atl_avg_rms vs run
χ² / ndf 2782 / 83
p0 1784 ± 1.38
2400
2300
2200
2100
2000
1900
1800
1700

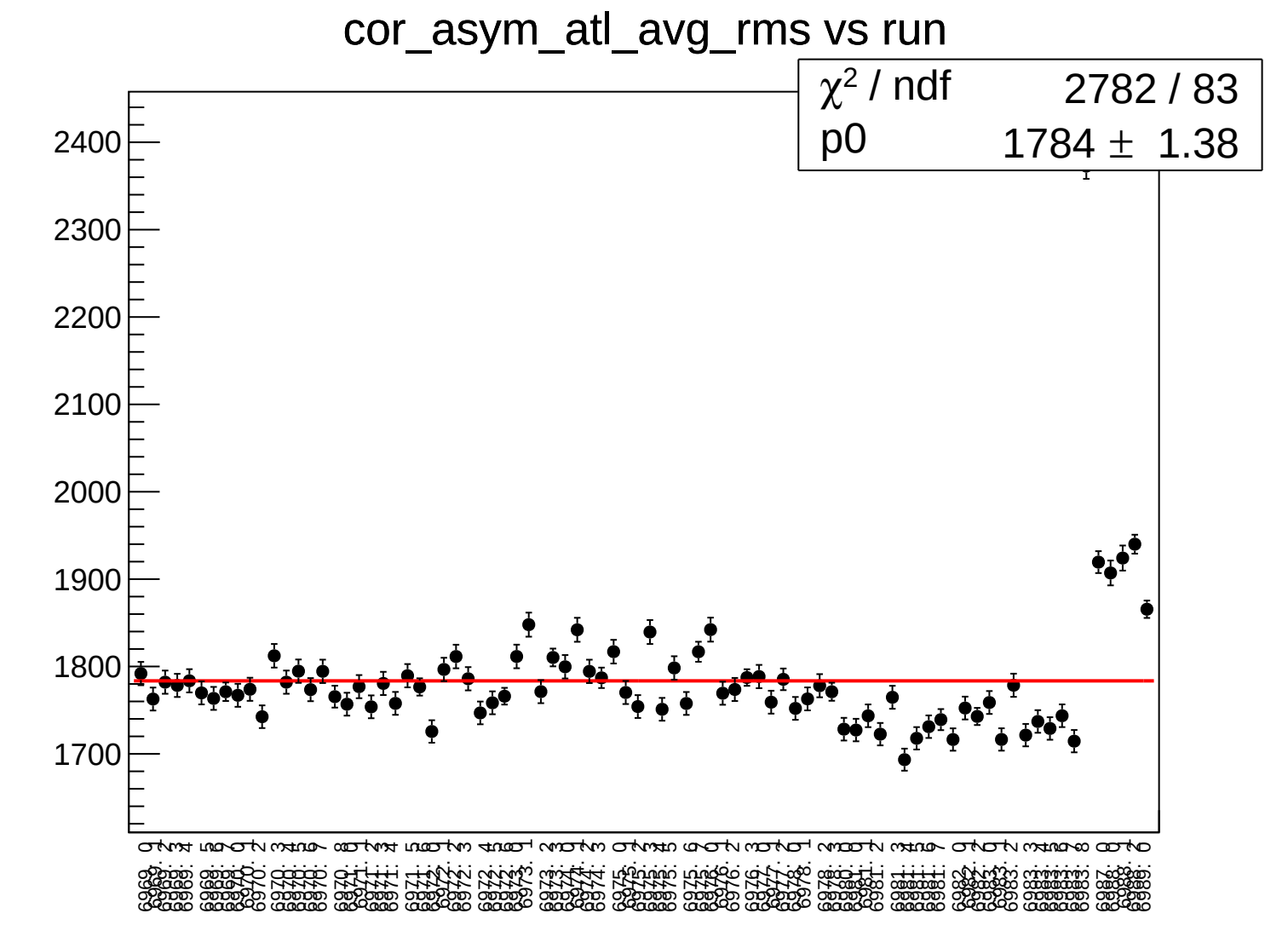

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 107.2 / 83
p0 −9689 ± 8017
×10³
pull
Entries 84
Mean −32.74
Std Dev 0

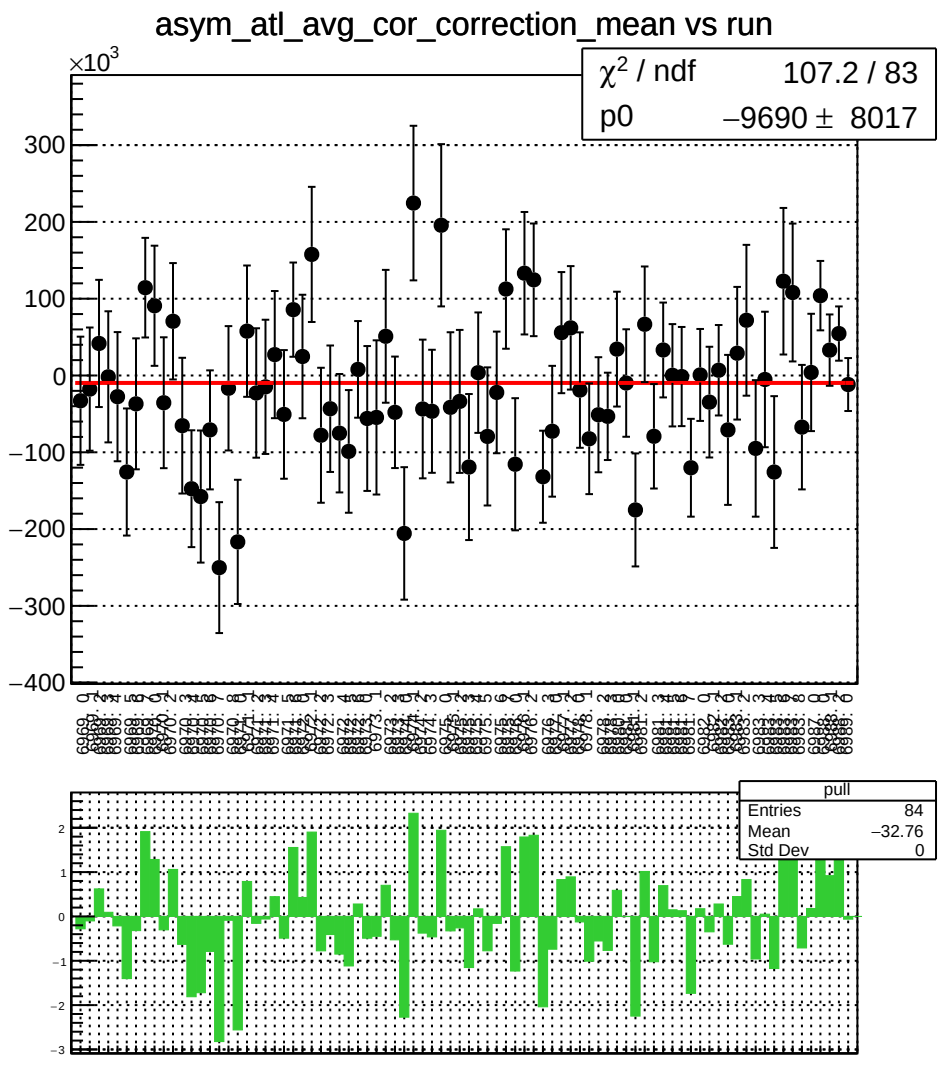

pull1D
Entries 84
Mean −0.05408
Std Dev 1.129

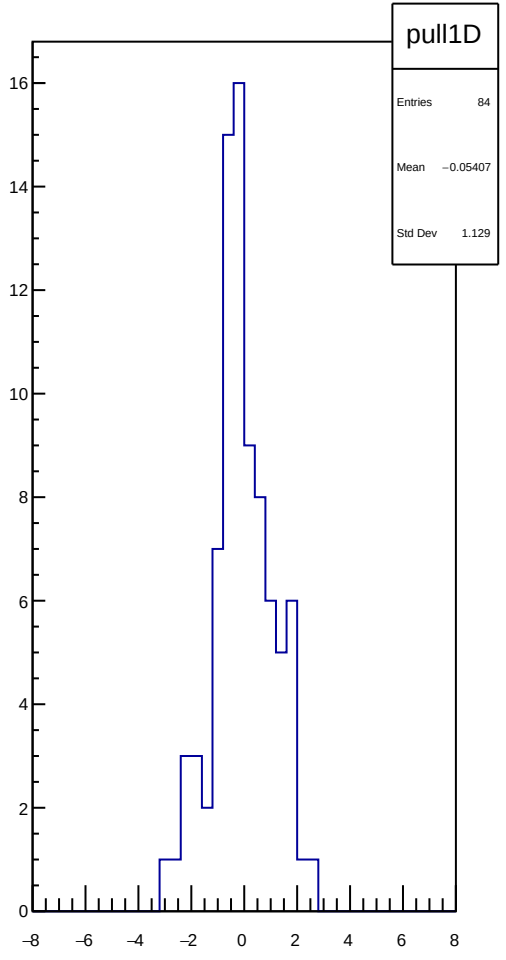

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 6.704e+04 / 83
p0 7186 ± 5.669
10000
9000
8000
7000
6000
5000
4000

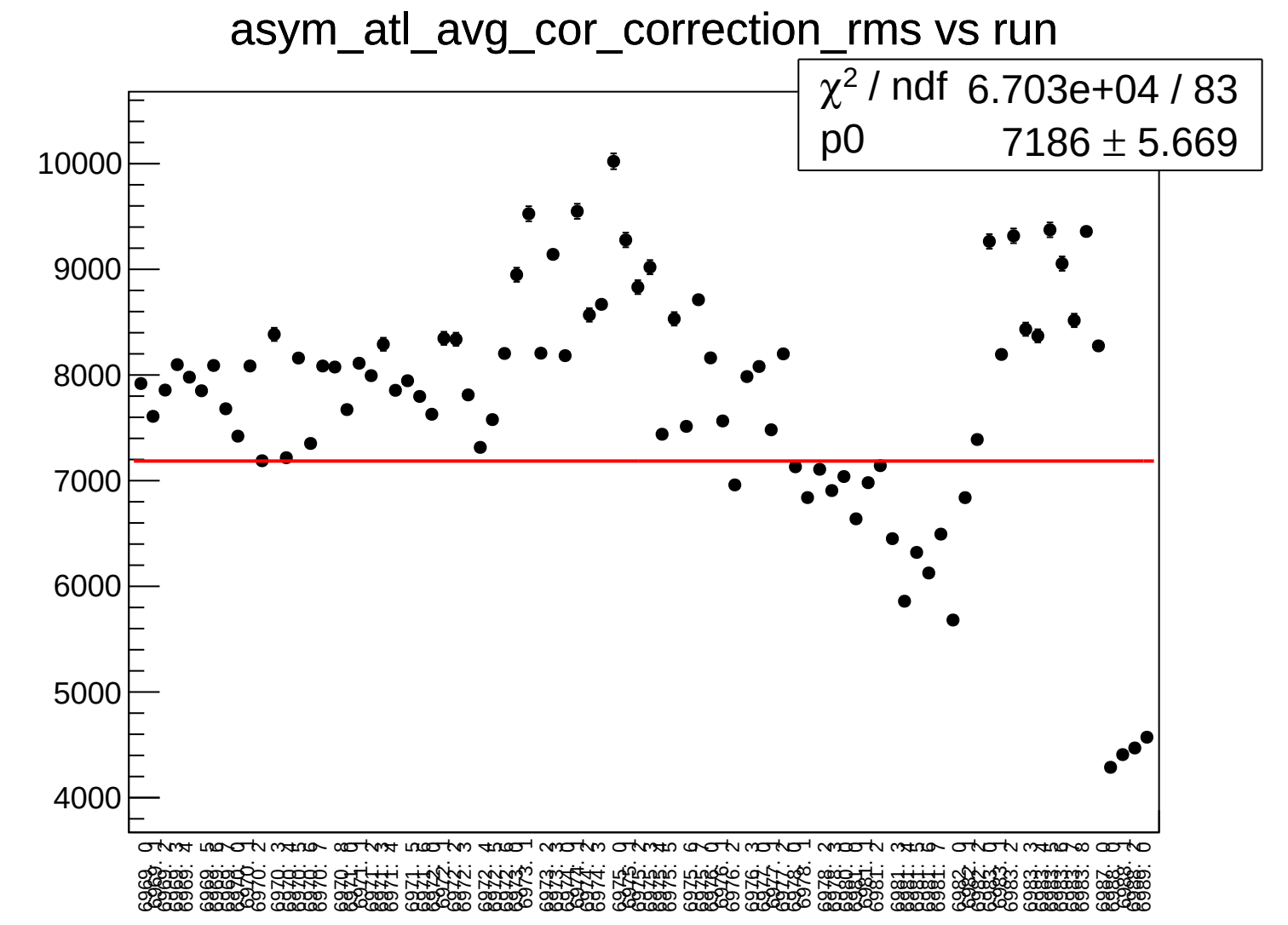

cor_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 93.75 / 83
p0 −177.2 ± 1951
pull
Entries 84
Mean −97.05
Std Dev 0

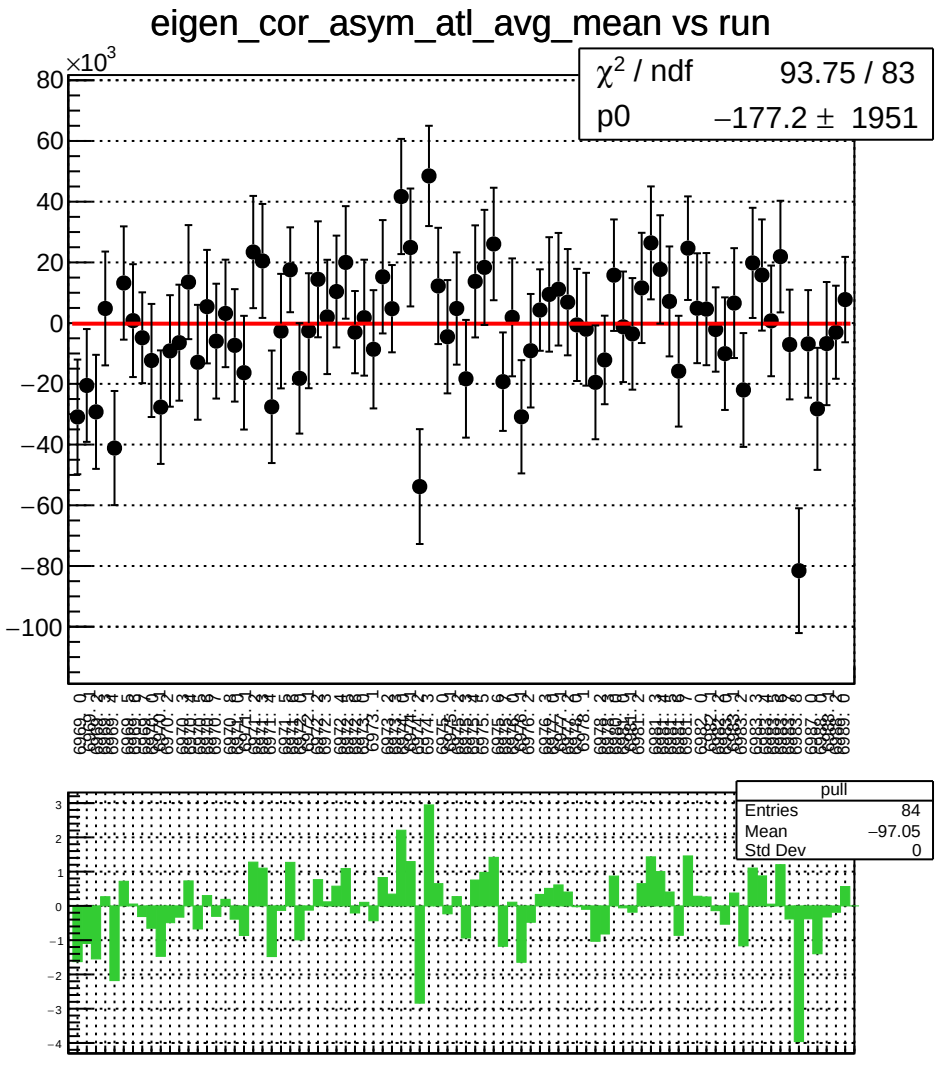

pull1D
Entries 84
Mean −0.01644
Std Dev 1.056

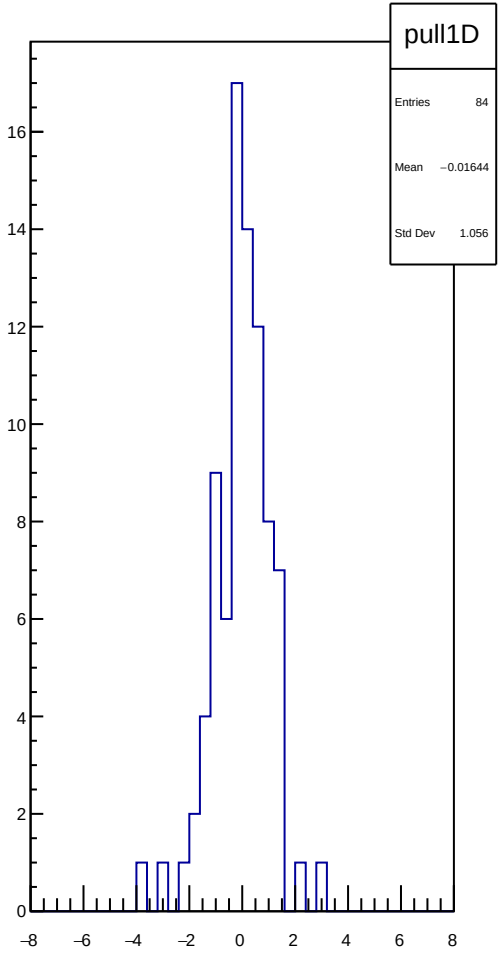

cor_asym_atl_avg_rms vs run
χ² / ndf 2782 / 83
p0 1784 ± 1.38
2400
2300
2200
2100
2000
1900
1800
1700

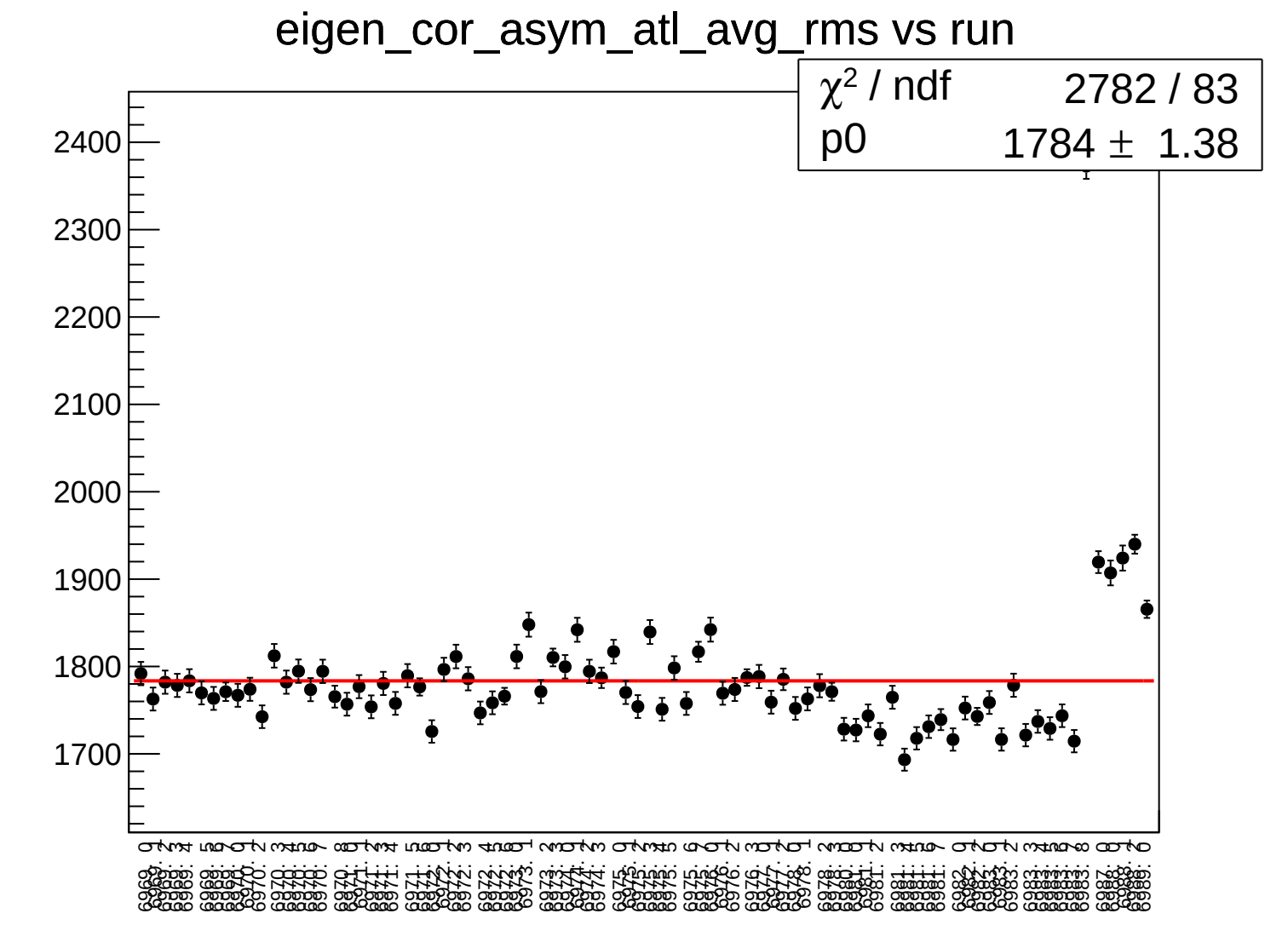

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 107.2 / 83
p0 −9690 ± 8017
×10³
pull
Entries 84
Mean −32.76
Std Dev 0

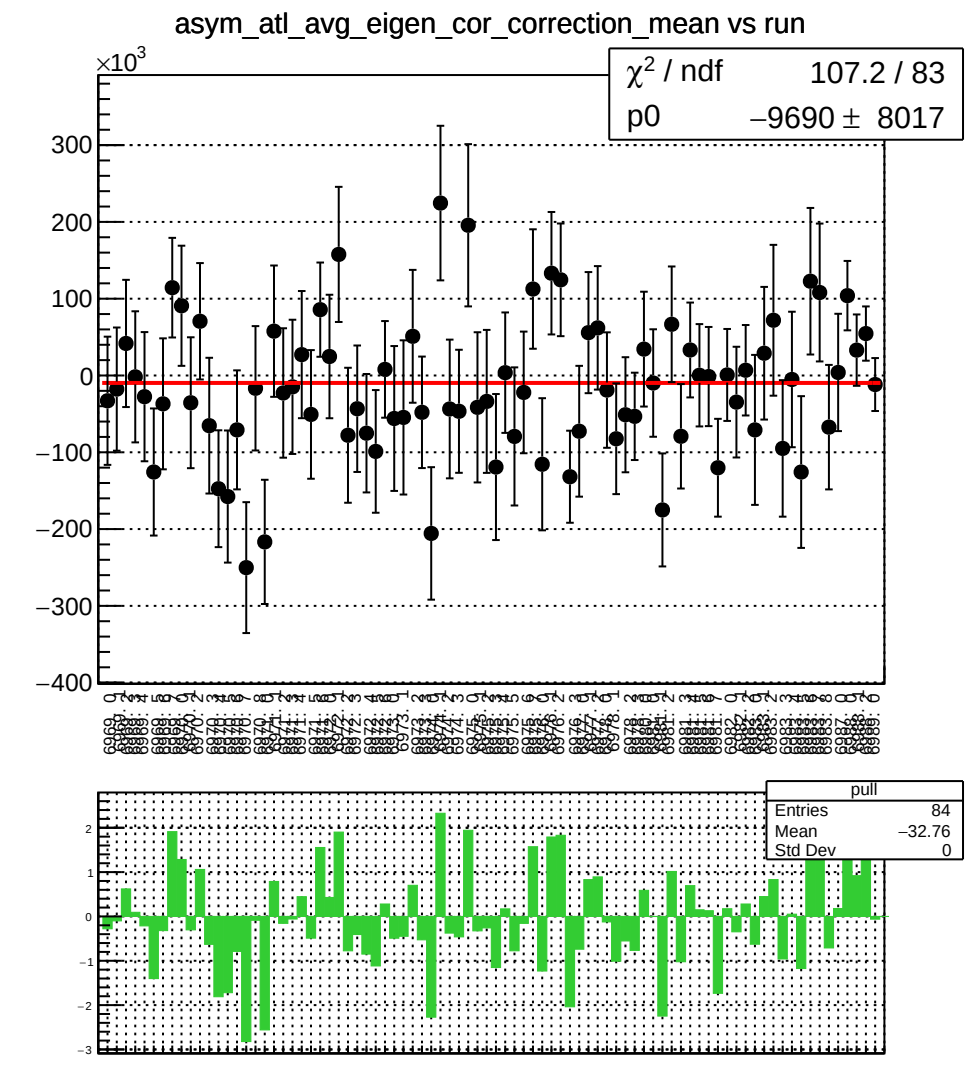

pull1D
Entries 84
Mean −0.05407
Std Dev 1.129

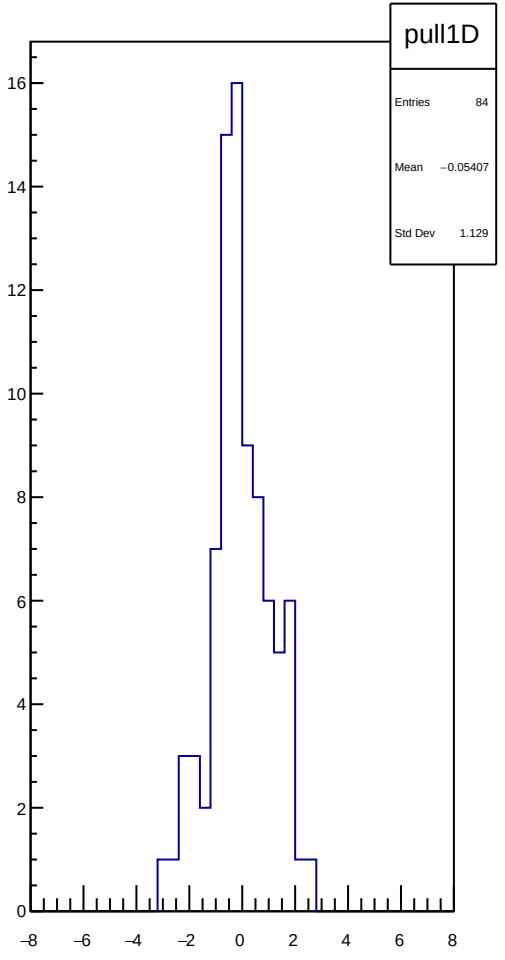

asym_atl_avg_cor_correction_rms vs run
χ^2 / ndf 6.703e+04 / 83
p0 7186 ± 5.669
10000
9000
8000
7000
6000
5000
4000

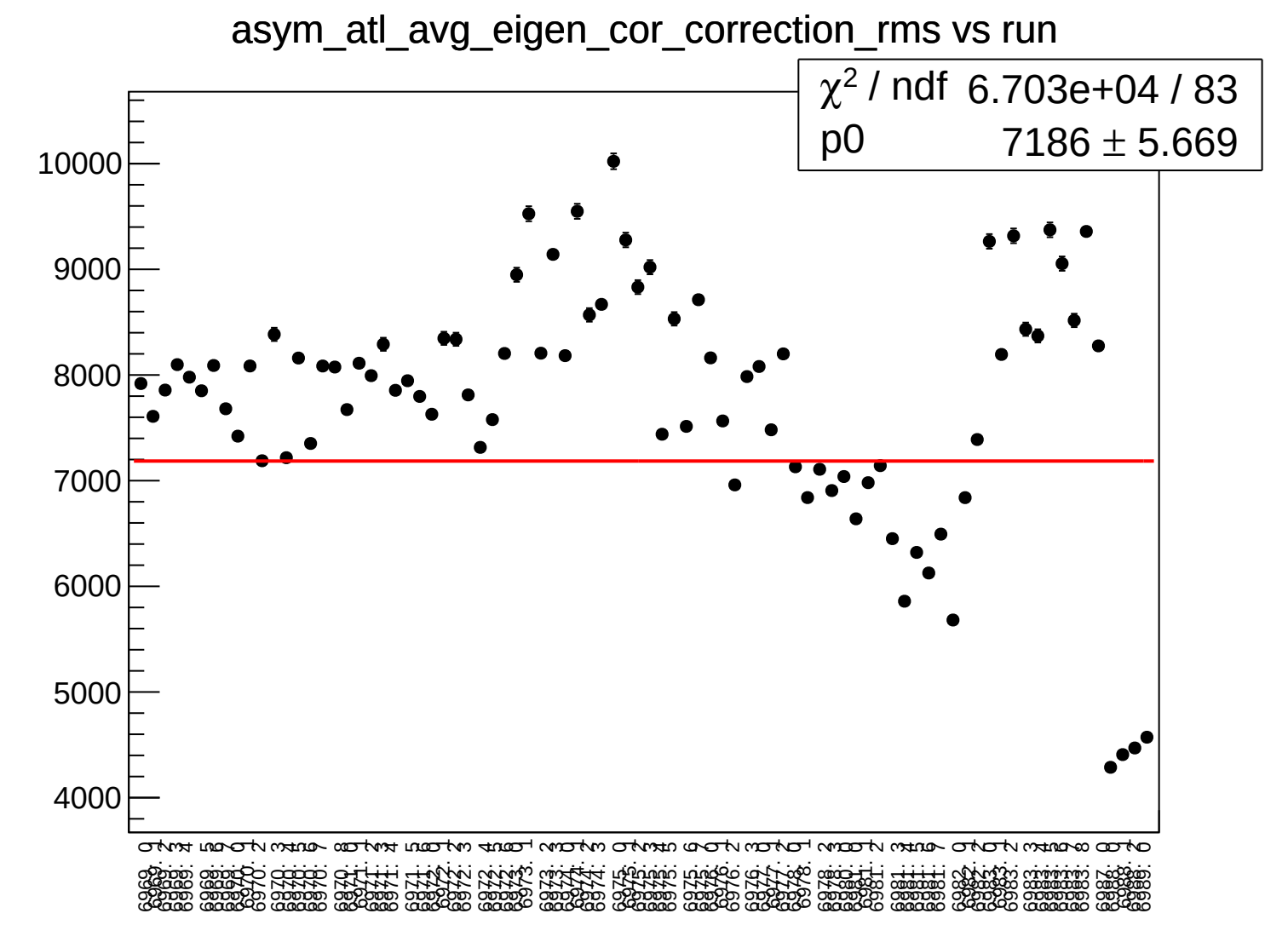

eigen_cor_asym_atl_avg_mean vs run
×10^3
χ² / ndf 93.75 / 83
p0 −177.2 ± 1951
pull
Entries 84
Mean −97.05
Std Dev 0

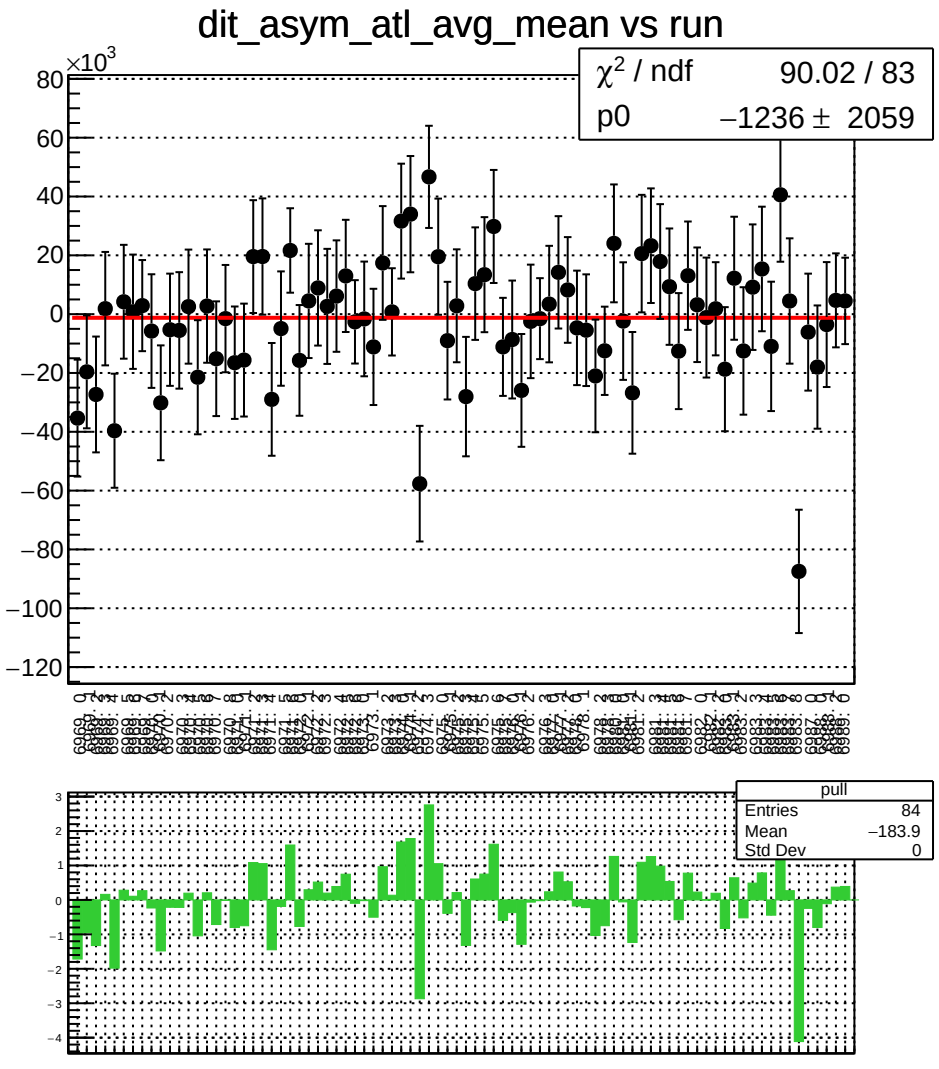

pull1D
Entries 84
Mean −0.01644
Std Dev 1.056

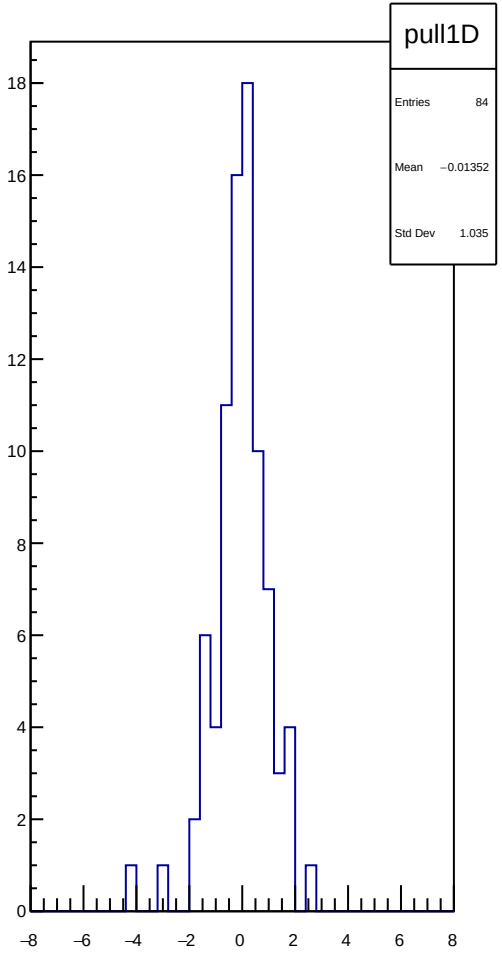

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 2782 / 83
p0 1784 ± 1.38
2400
2300
2200
2100
2000
1900
1800
1700

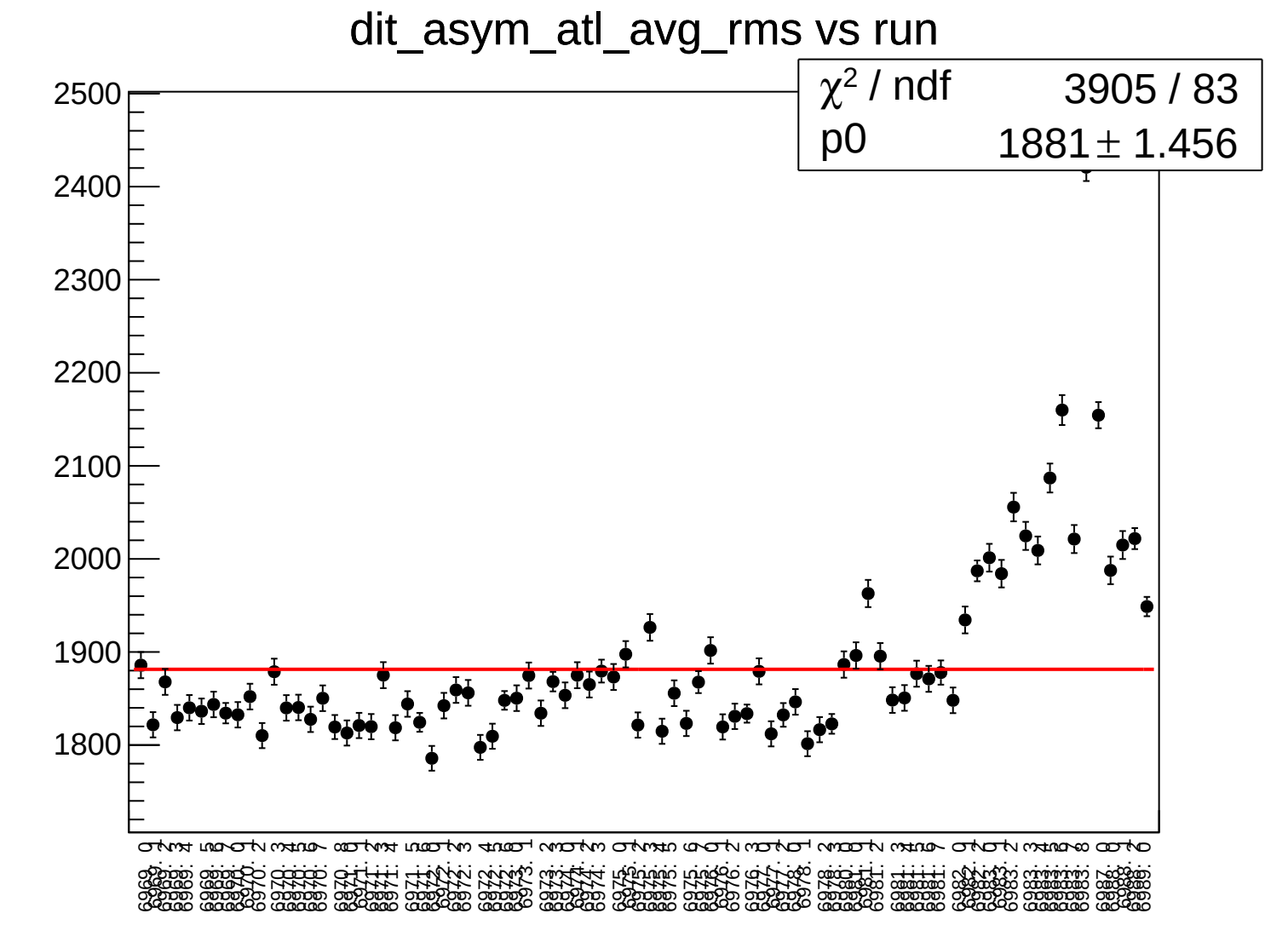

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 107.2 / 83
p0 −9690 ± 8017
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean −32.76
Std Dev 0
2
1
0
−1
−2
−3

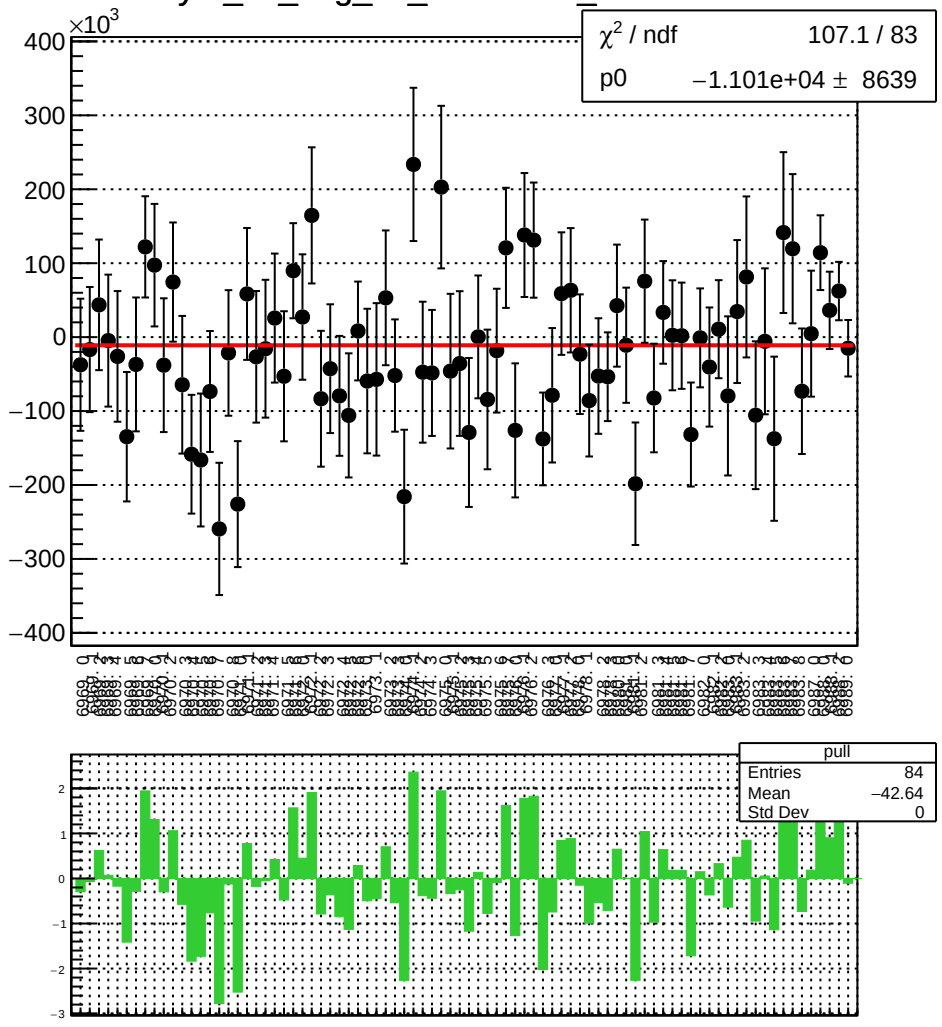

pull1D
Entries 84
Mean −0.05407
Std Dev 1.129
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

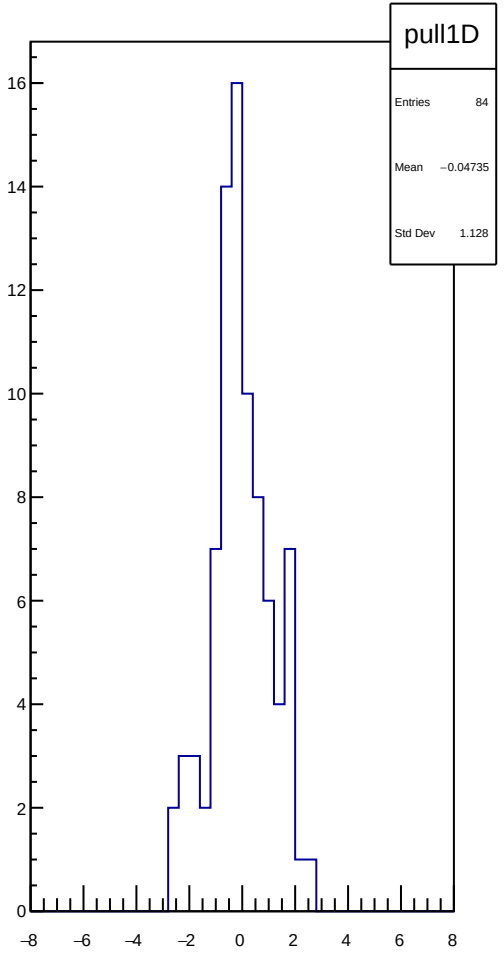

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.703e+04 / 83
p0 7186 ± 5.669
10000
9000
8000
7000
6000
5000
4000

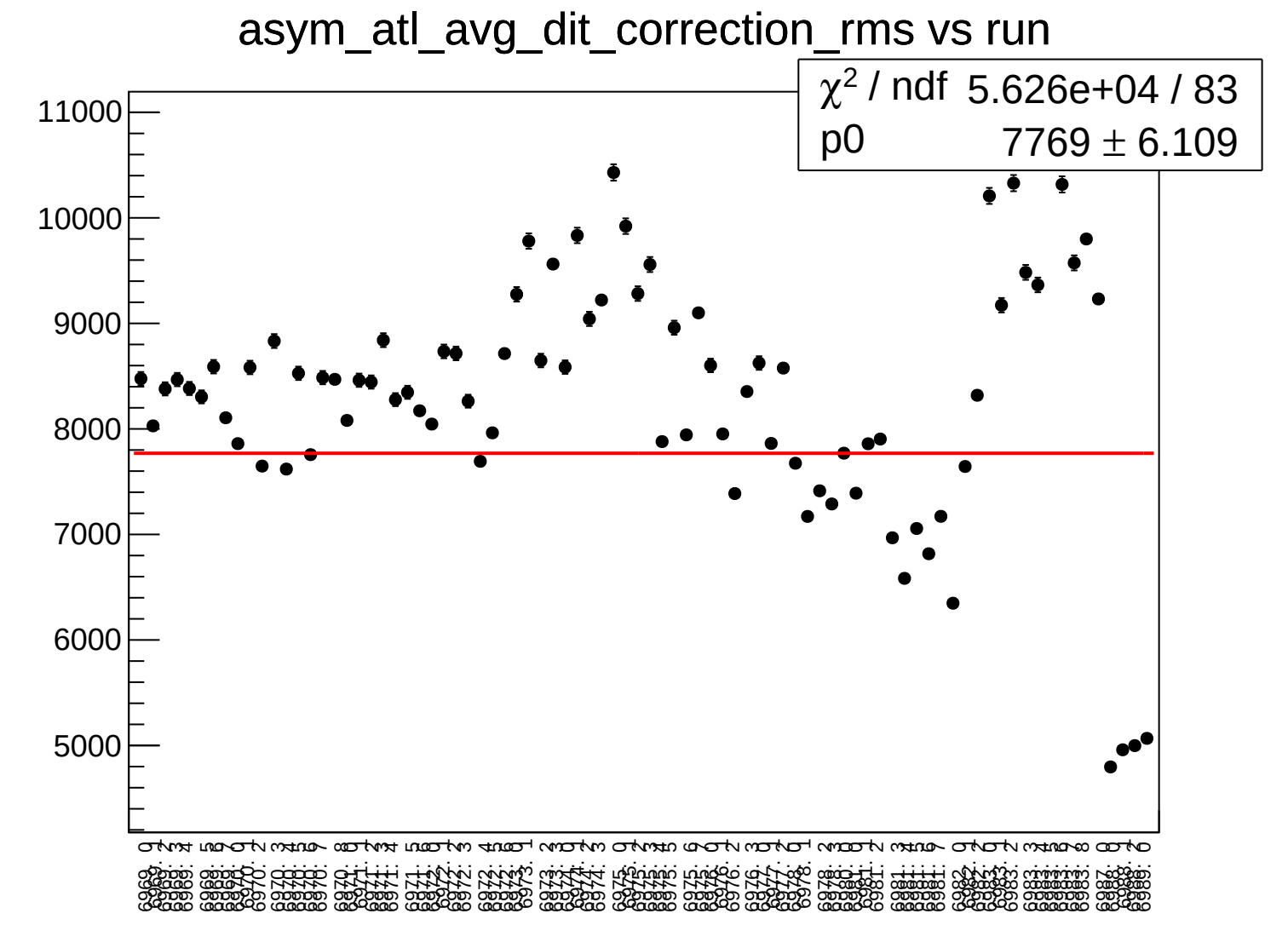

dit_asym_atl_avg_mean vs run
×10^3
χ² / ndf 90.02 / 83
p0 −1236 ± 2059
pull
Entries 84
Mean −183.9
Std Dev 0

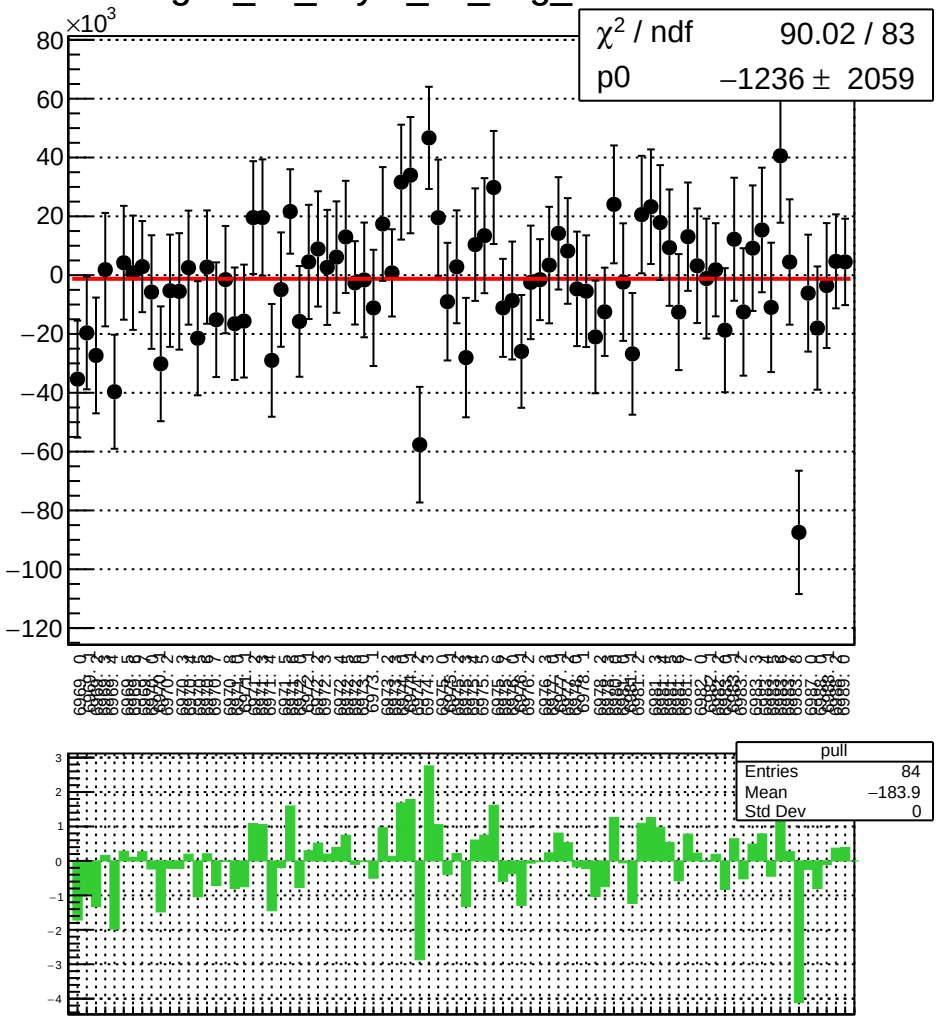

pull1D
Entries 84
Mean −0.01352
Std Dev 1.035

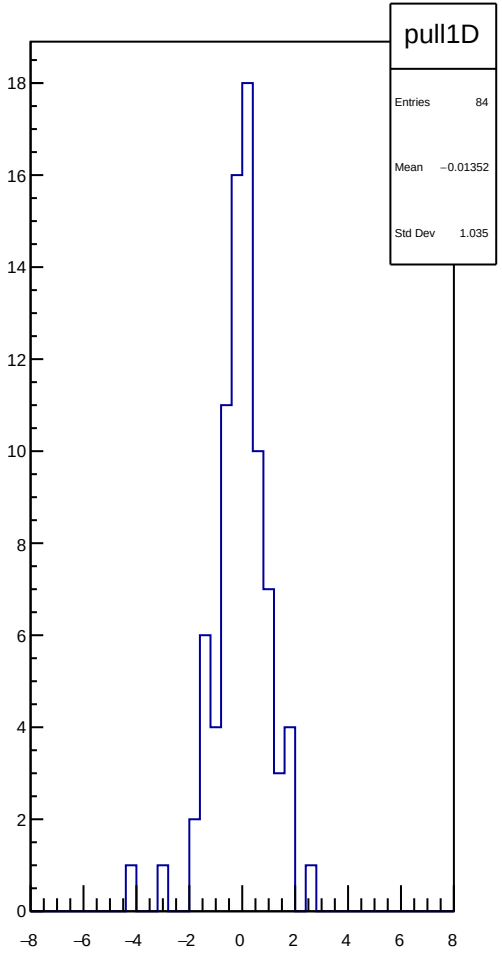

dit_asym_atl_avg_rms vs run
χ^2 / ndf 3905 / 83
p0 1881 ± 1.456
2500
2400
2300
2200
2100
2000
1900
1800

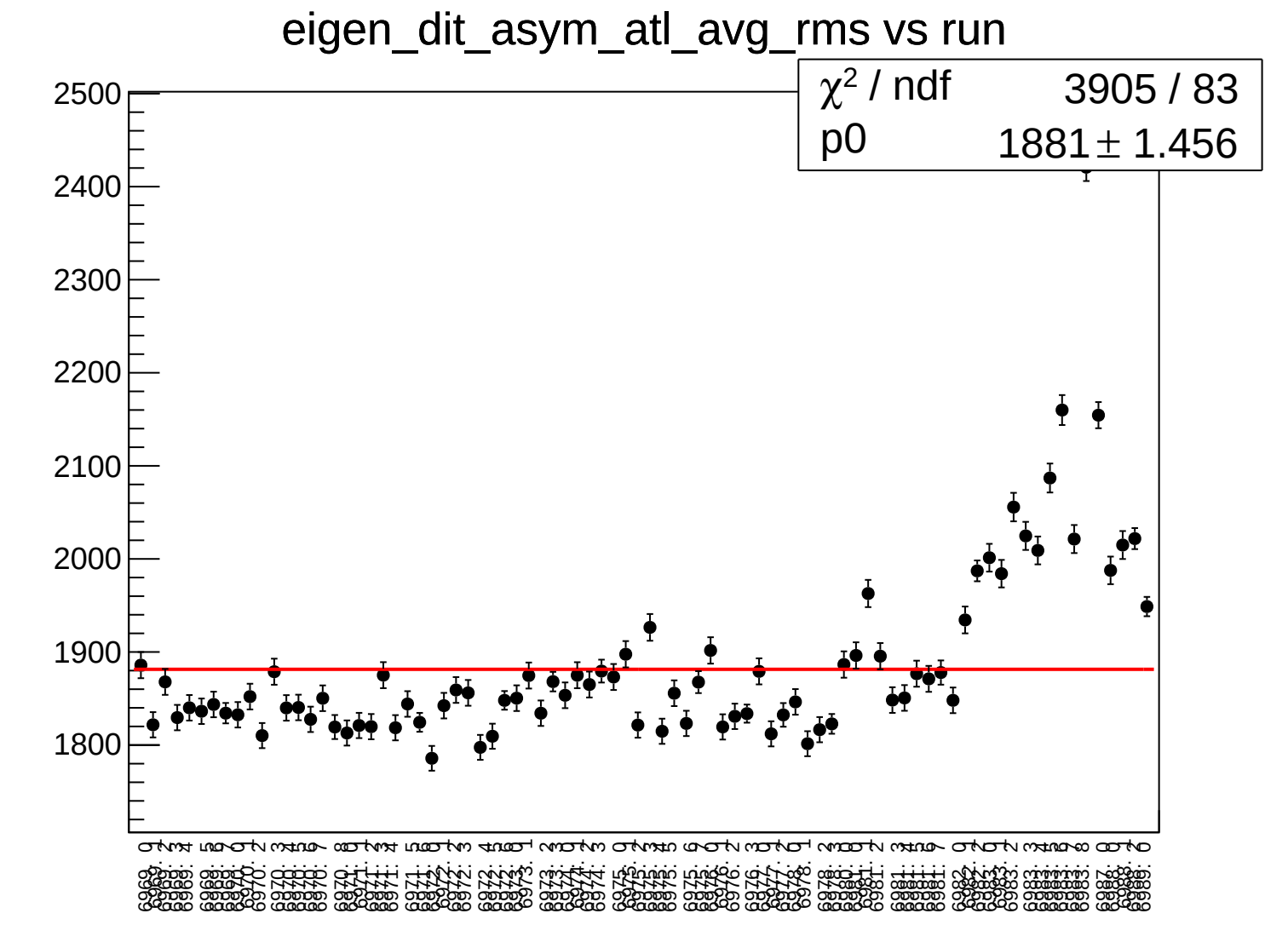

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.1 / 83
p0 −1.101e+04 ± 8639
pull
Entries 84
Mean −42.64
Std Dev 0

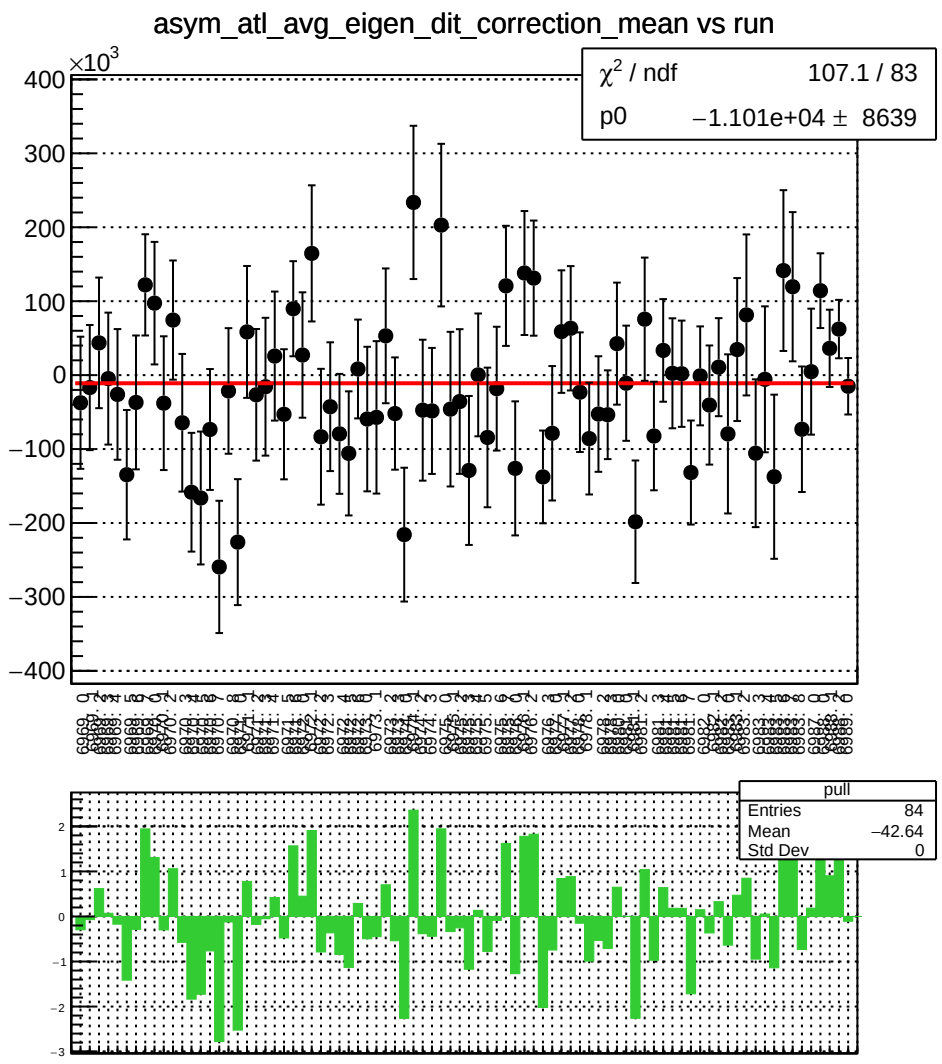

pull1D
Entries 84
Mean −0.04735
Std Dev 1.128

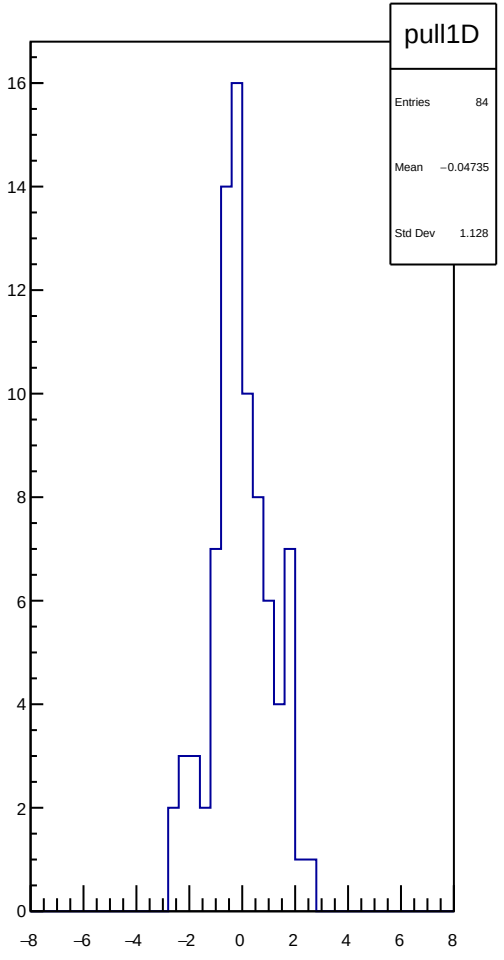

asym_atl_avg_dit_correction_rms vs run
χ^2 / ndf 5.626e+04 / 83
p0 7769 ± 6.109
11000
10000
9000
8000
7000
6000
5000

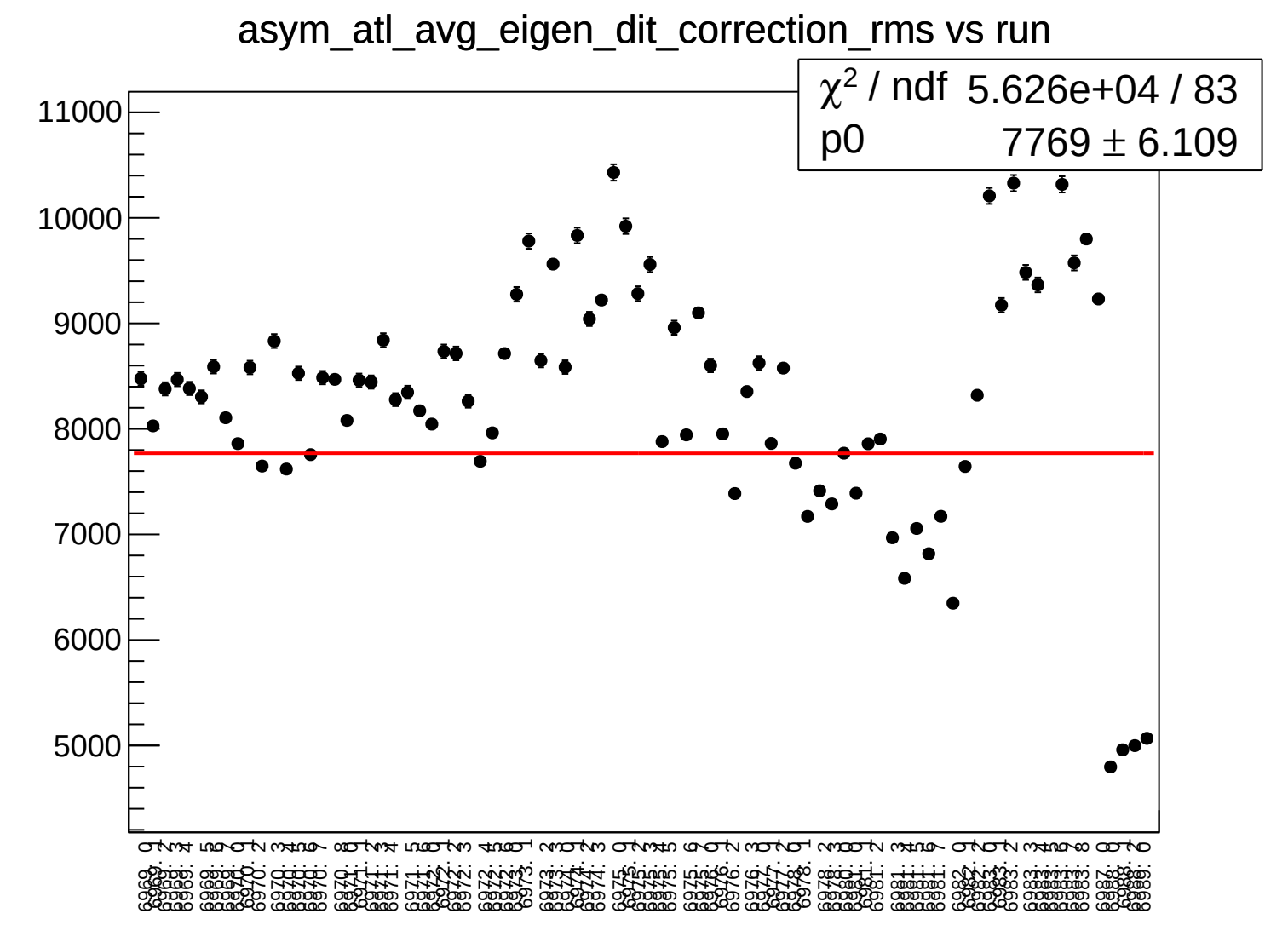

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 90.02 / 83
p0 −1236 ± 2059
×10³
pull
Entries 84
Mean −183.9
Std Dev 0

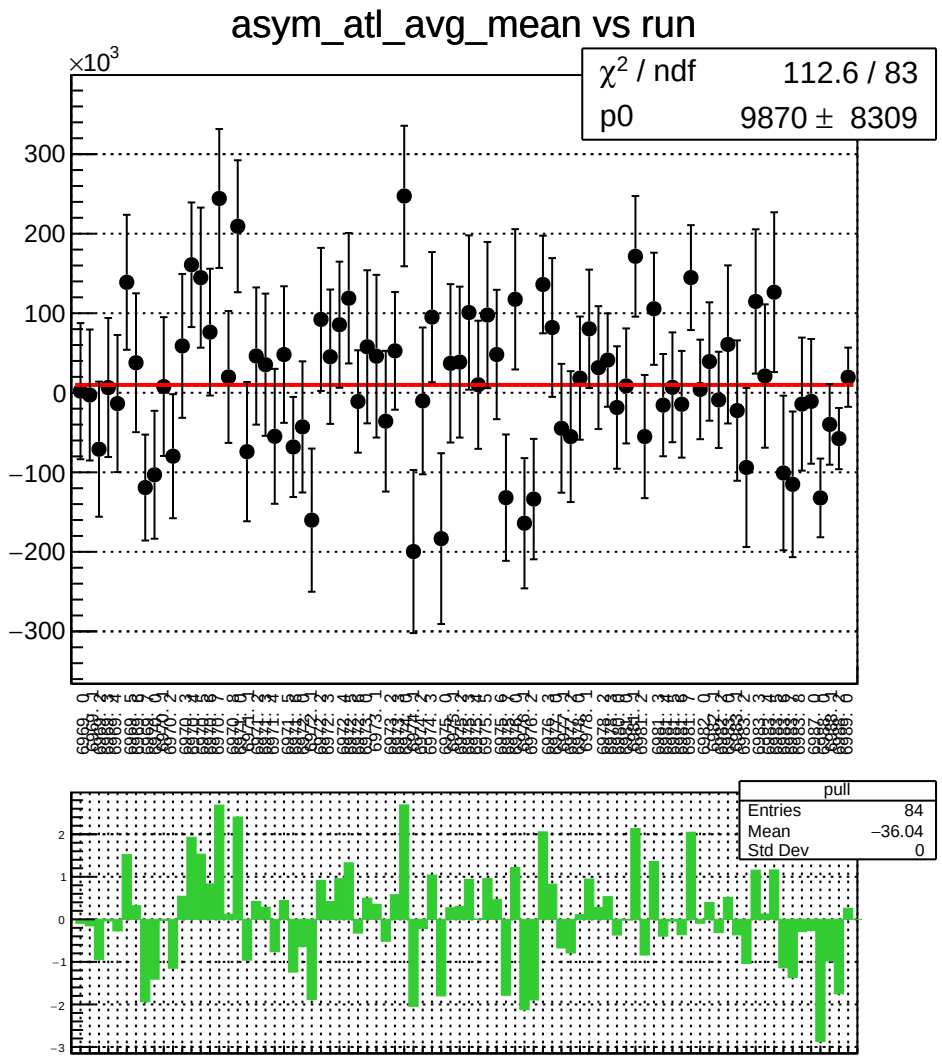

pull1D
Entries 84
Mean −0.01352
Std Dev 1.035

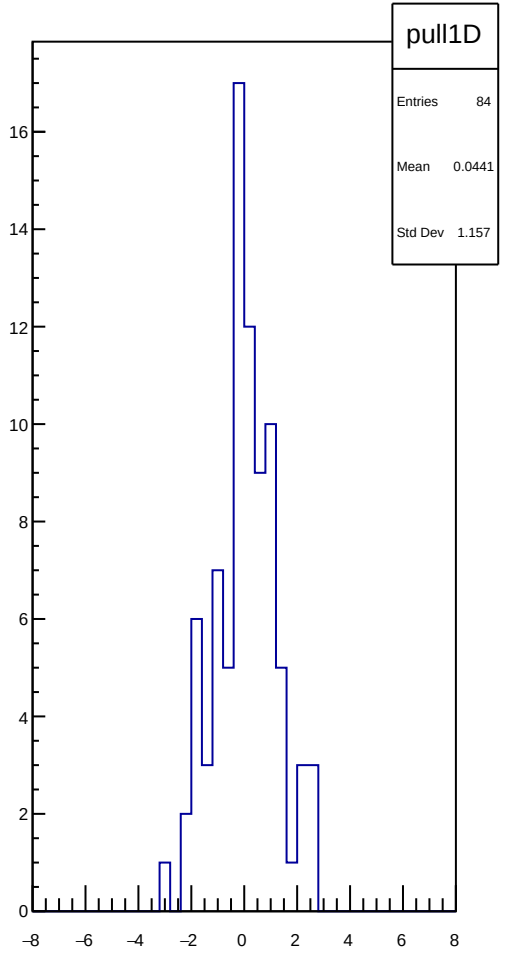

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 3905 / 83
p0 1881 ± 1.456
2500
2400
2300
2200
2100
2000
1900
1800

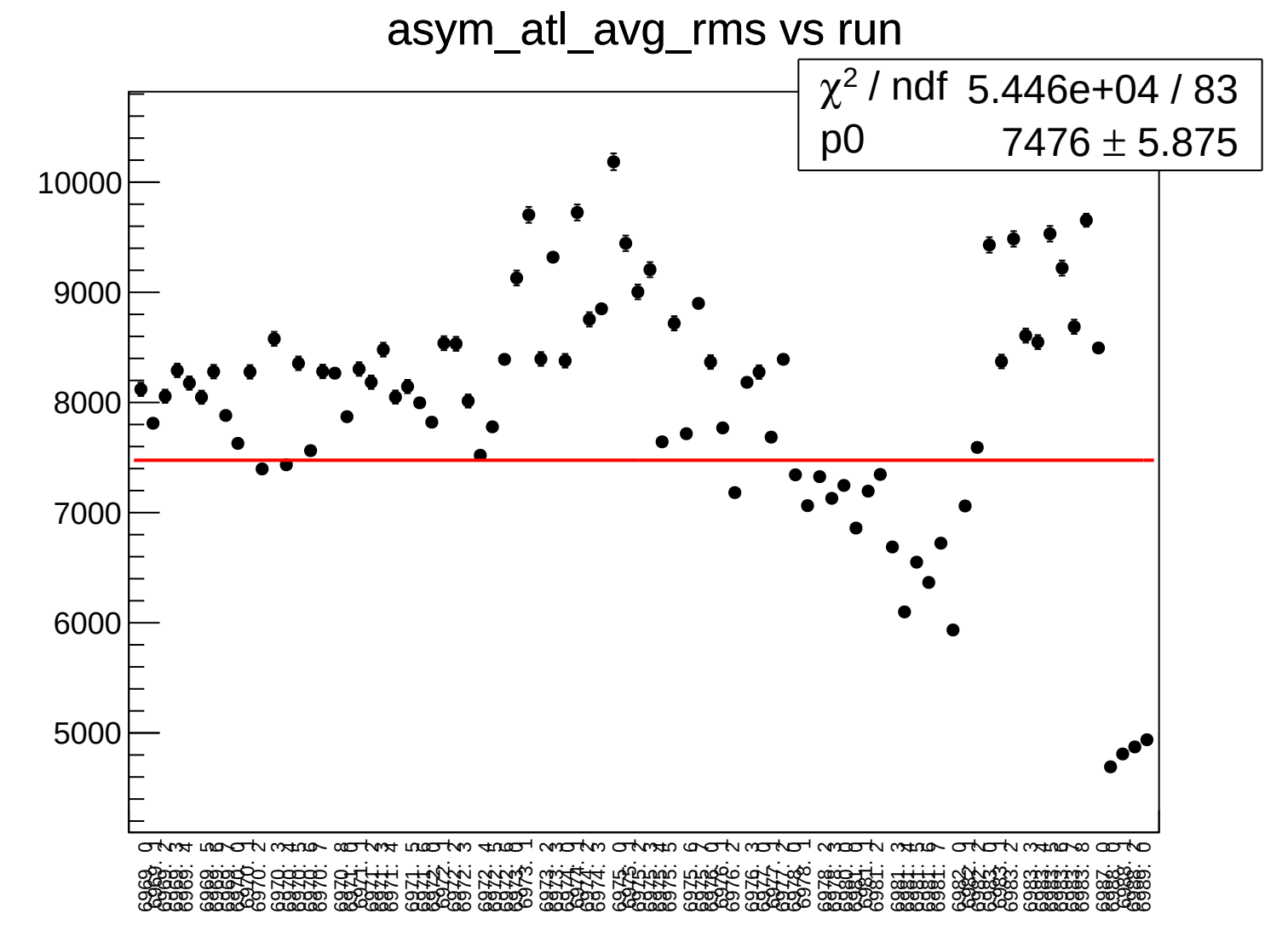

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.1 / 83
p0 −1.101e+04 ± 8639
pull
Entries 84
Mean −42.64
Std Dev 0

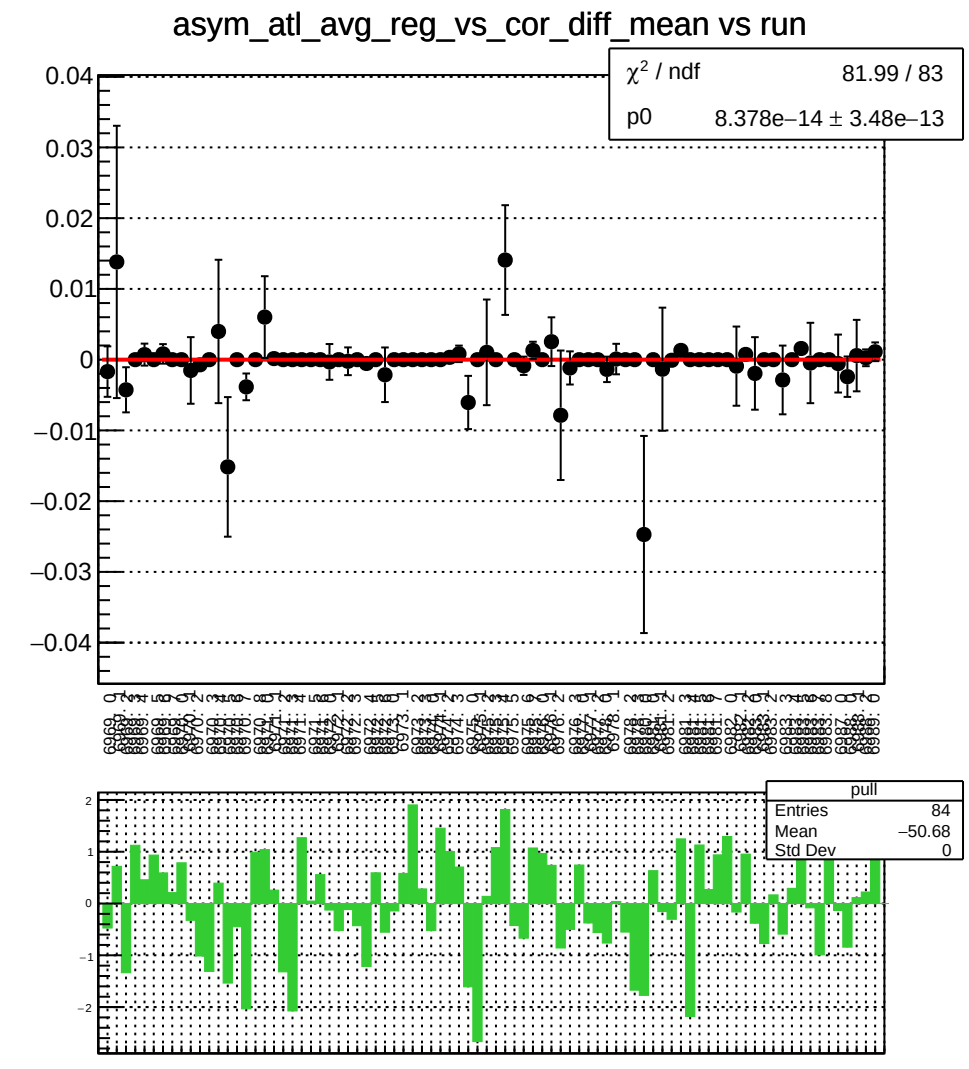

pull1D
Entries 84
Mean −0.04735
Std Dev 1.128

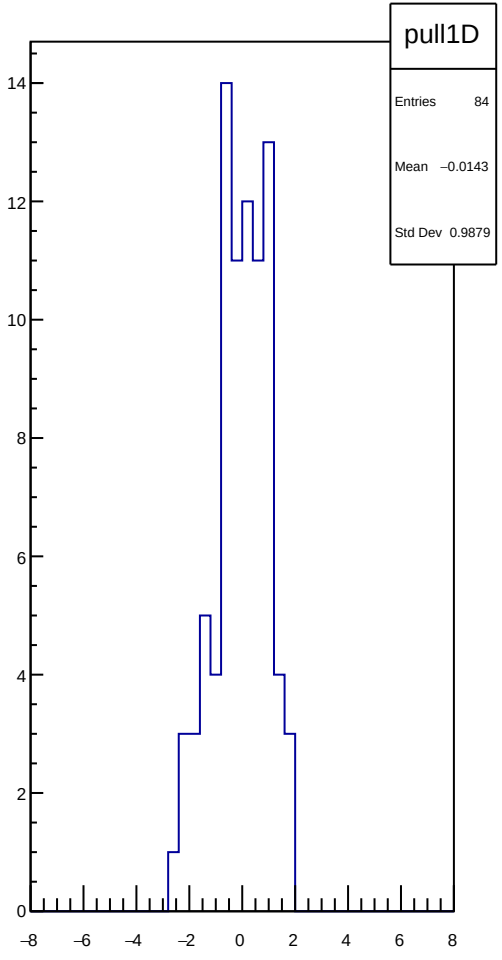

asym_atl_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 5.626e+04 / 83
p0 7769 ± 6.109
11000
10000
9000
8000
7000
6000
5000

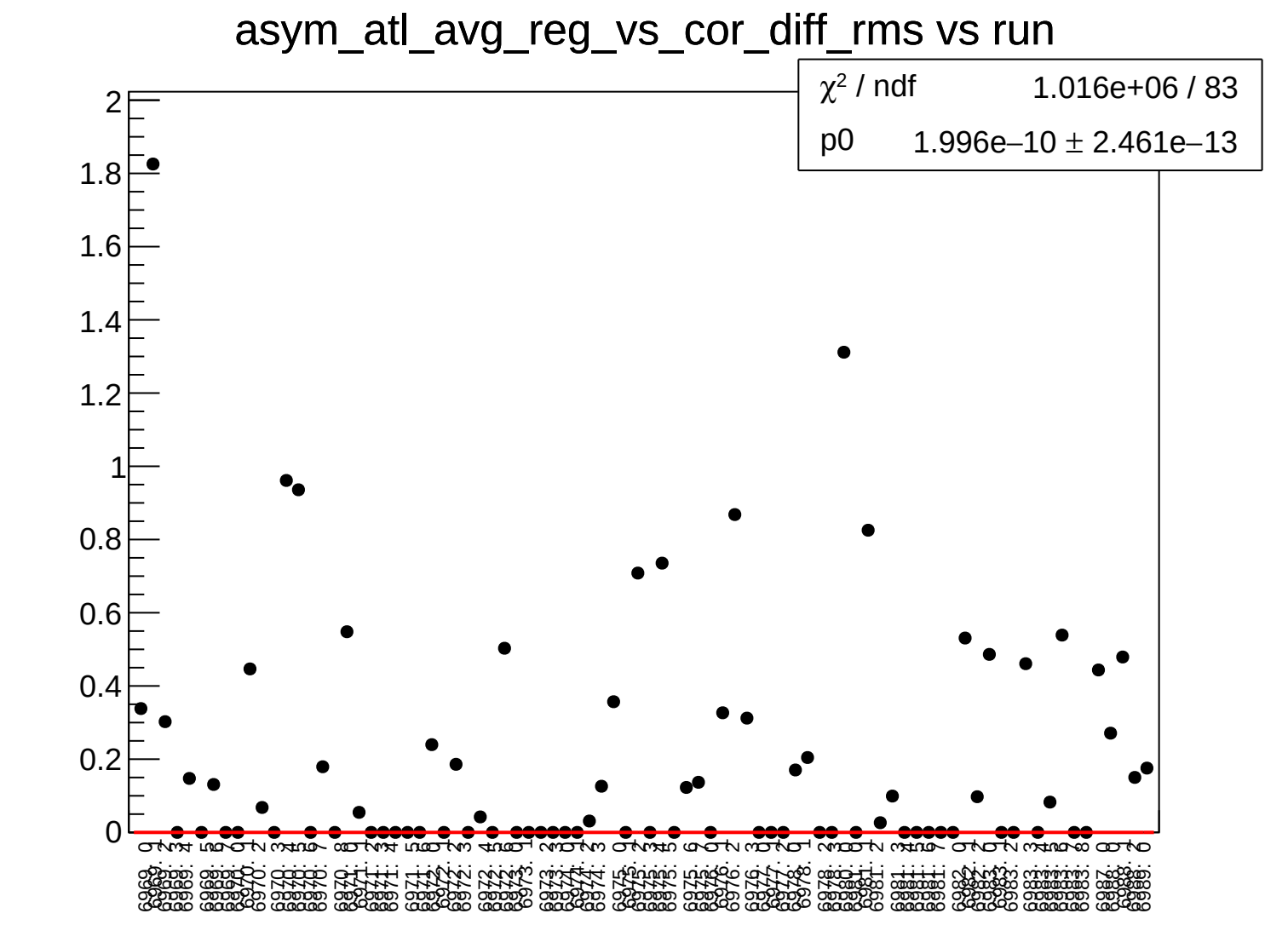

asym_atl_avg_mean vs run
χ² / ndf 112.6 / 83
p0 9870 ± 8309
×10³
pull
Entries 84
Mean −36.04
Std Dev 0

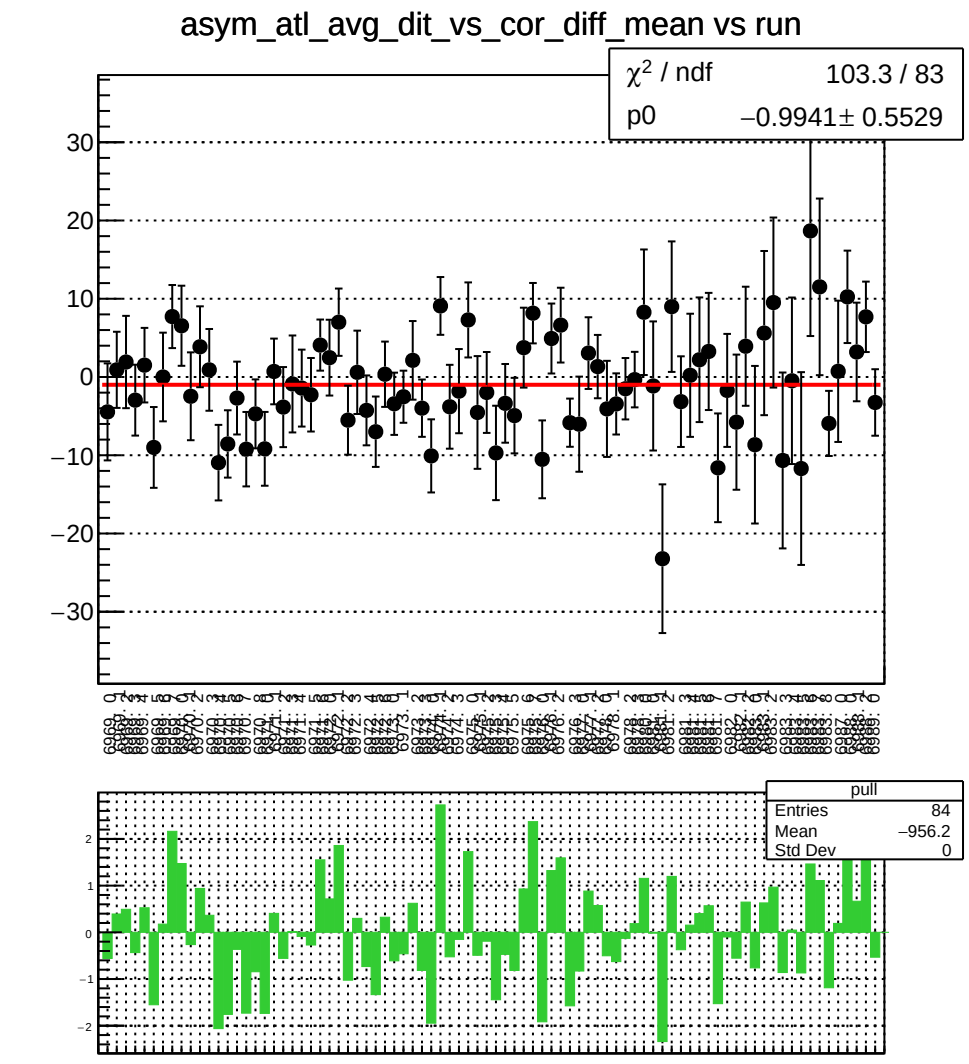

pull1D
Entries 84
Mean 0.0441
Std Dev 1.157

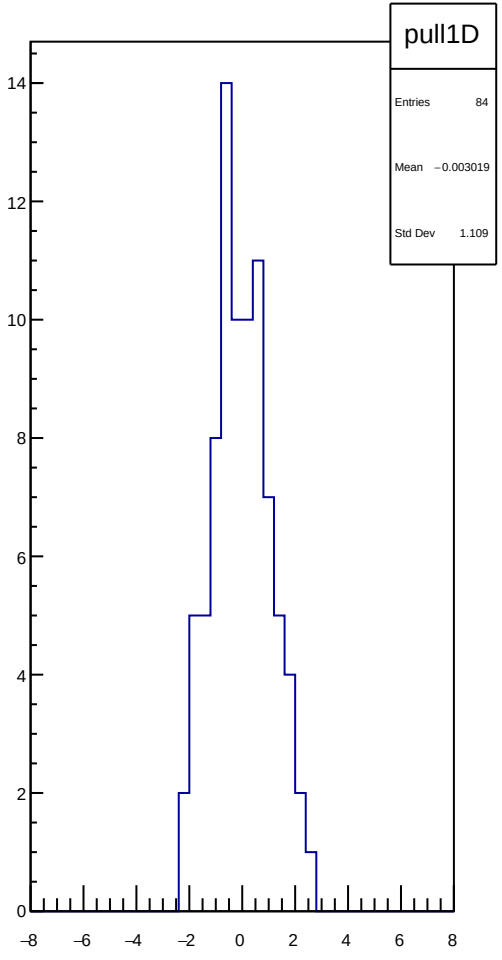

asym_atl_avg_rms vs run
χ^2 / ndf 5.446e+04 / 83
p0 7476 ± 5.875
10000
9000
8000
7000
6000
5000

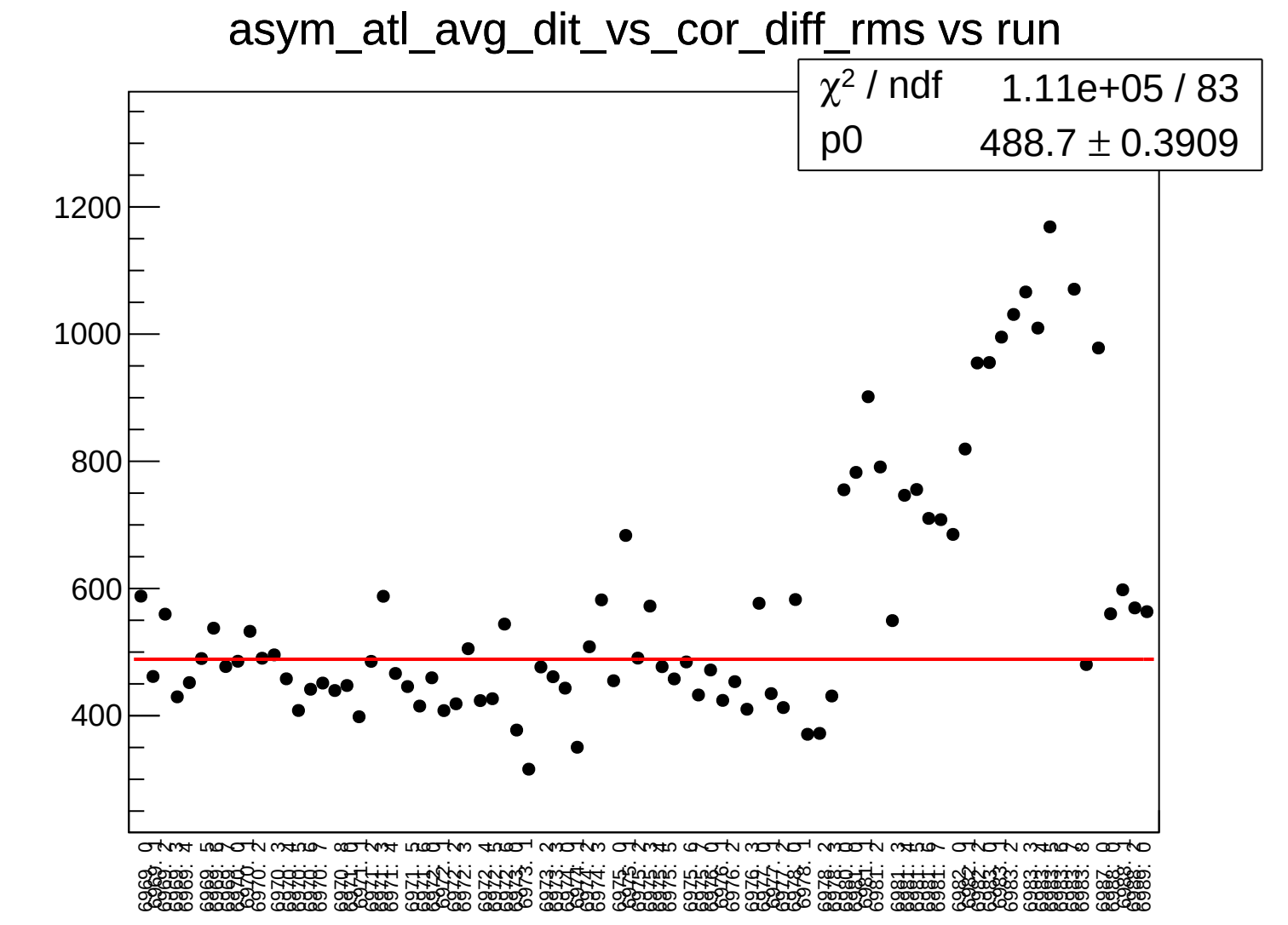

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.99 / 83
p0 8.378e−14 ± 3.48e−13
pull
Entries 84
Mean −50.68
Std Dev 0

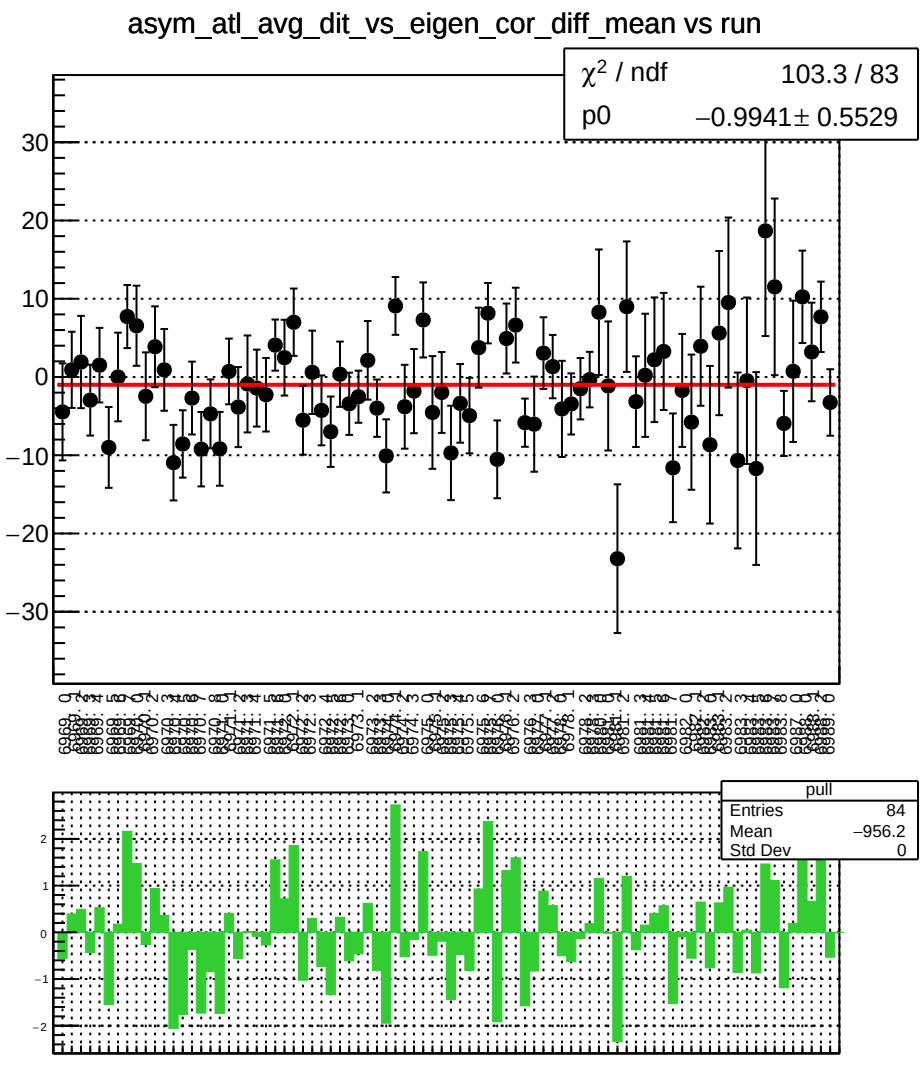

pull1D
Entries 84
Mean −0.0143
Std Dev 0.9879

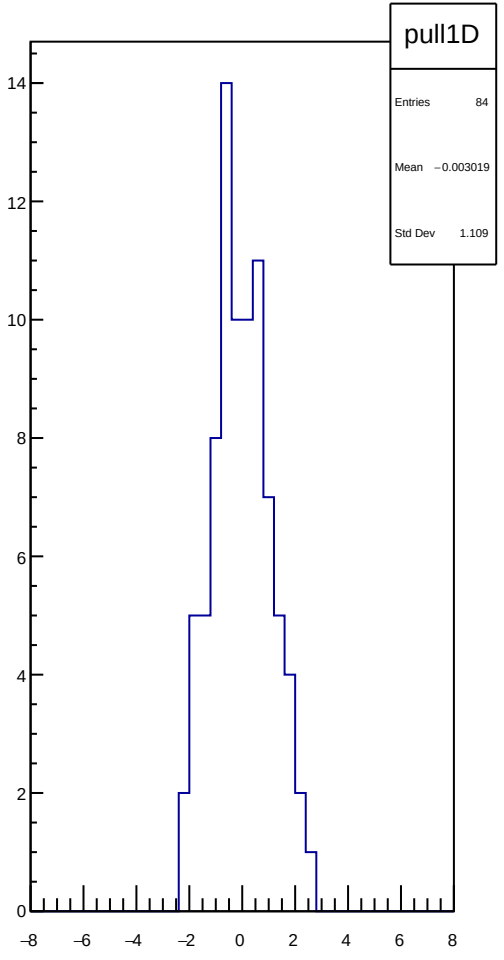

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.016e+06 / 83
p0 1.996e−10 ± 2.461e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

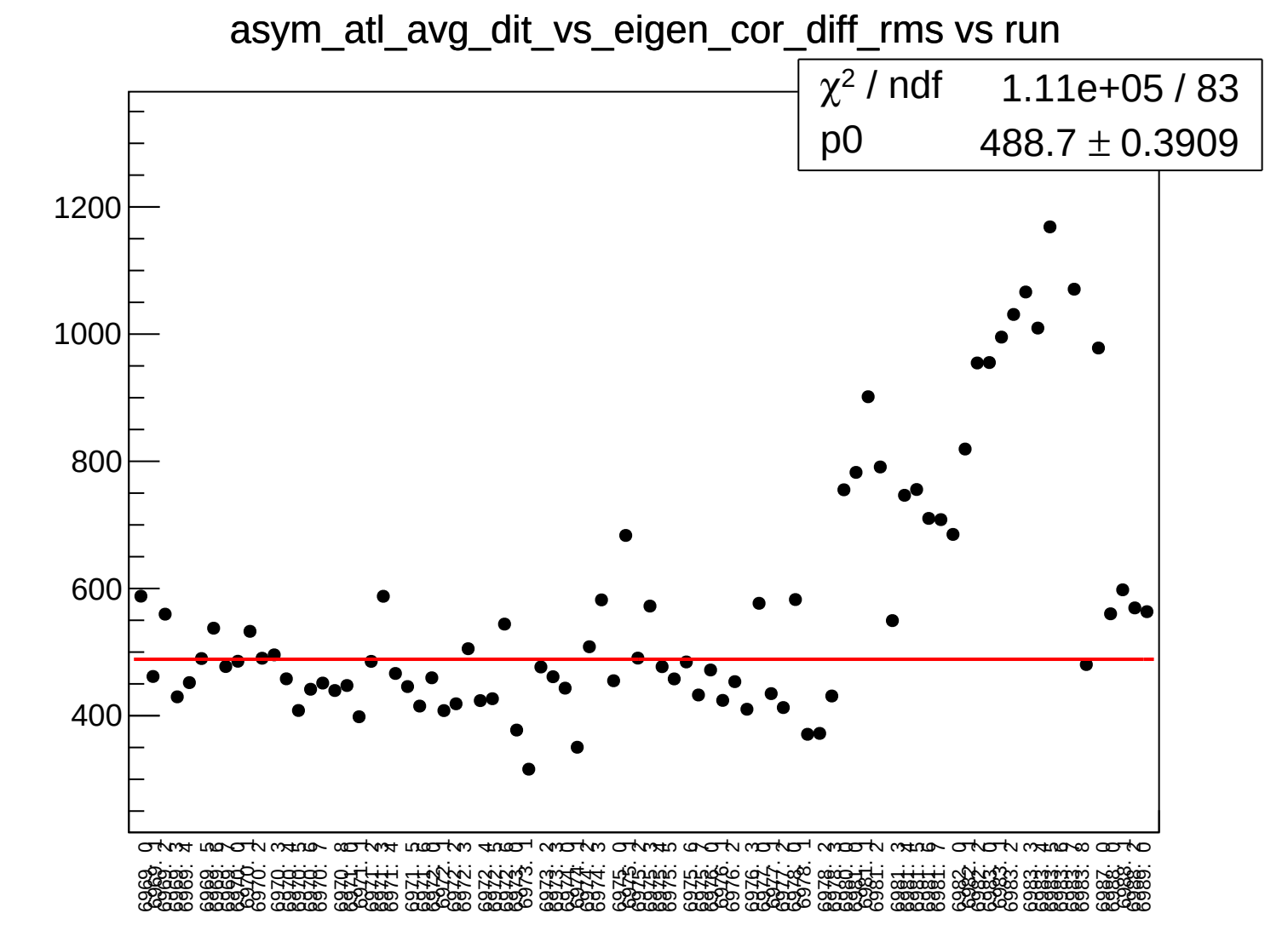

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 83
p0 −0.9941± 0.5529
pull
Entries 84
Mean −956.2
Std Dev 0

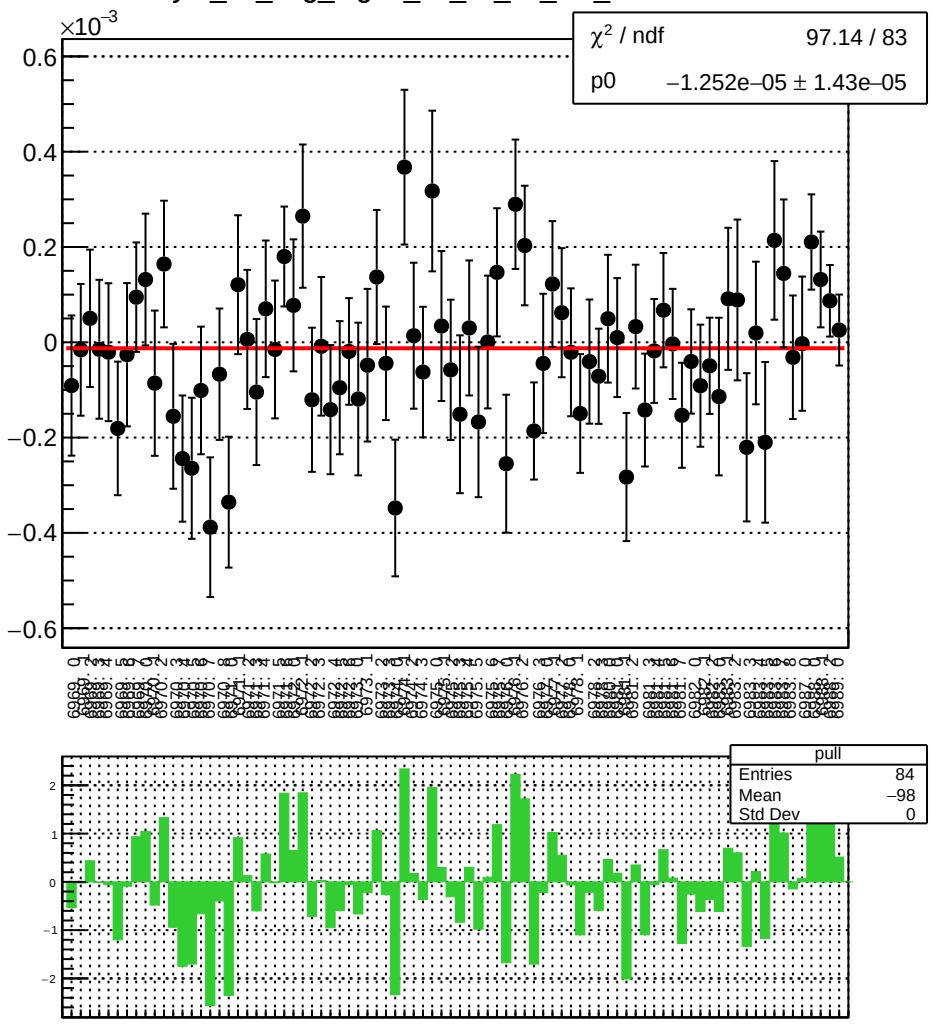

pull1D
Entries 84
Mean −0.003019
Std Dev 1.109

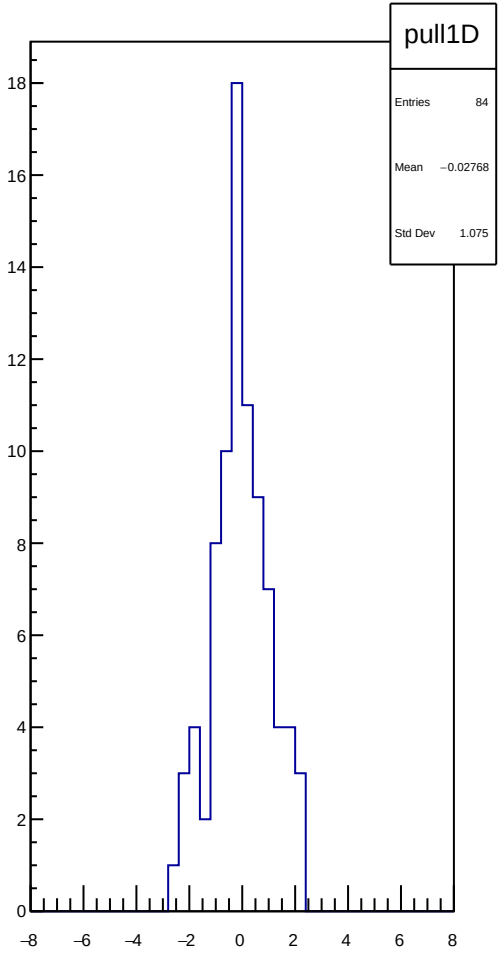

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.11e+05 / 83
p0 488.7 ± 0.3909
1200
1000
800
600
400

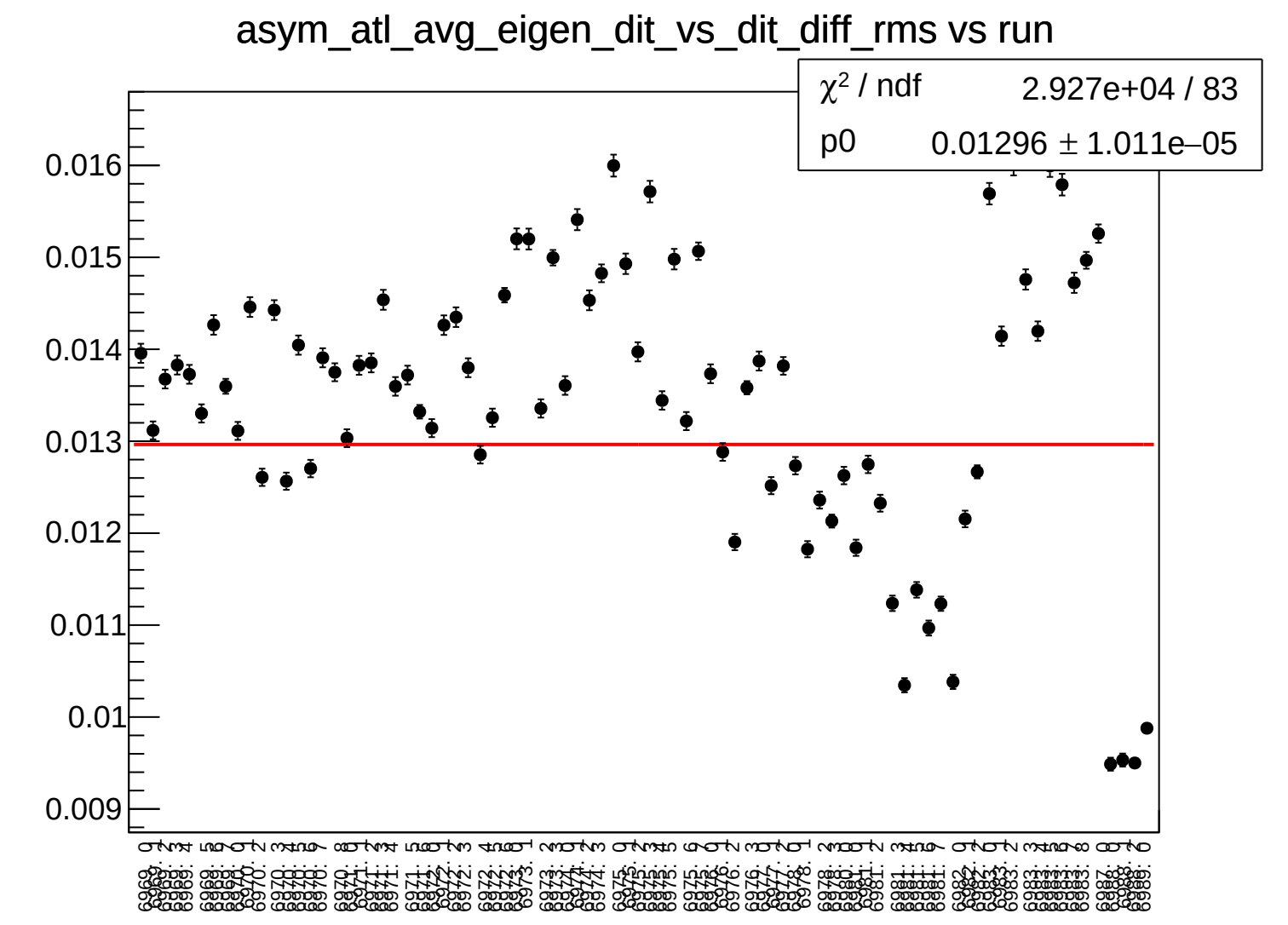

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.3 / 83
p0 −0.9941± 0.5529
pull
Entries 84
Mean −956.2
Std Dev 0

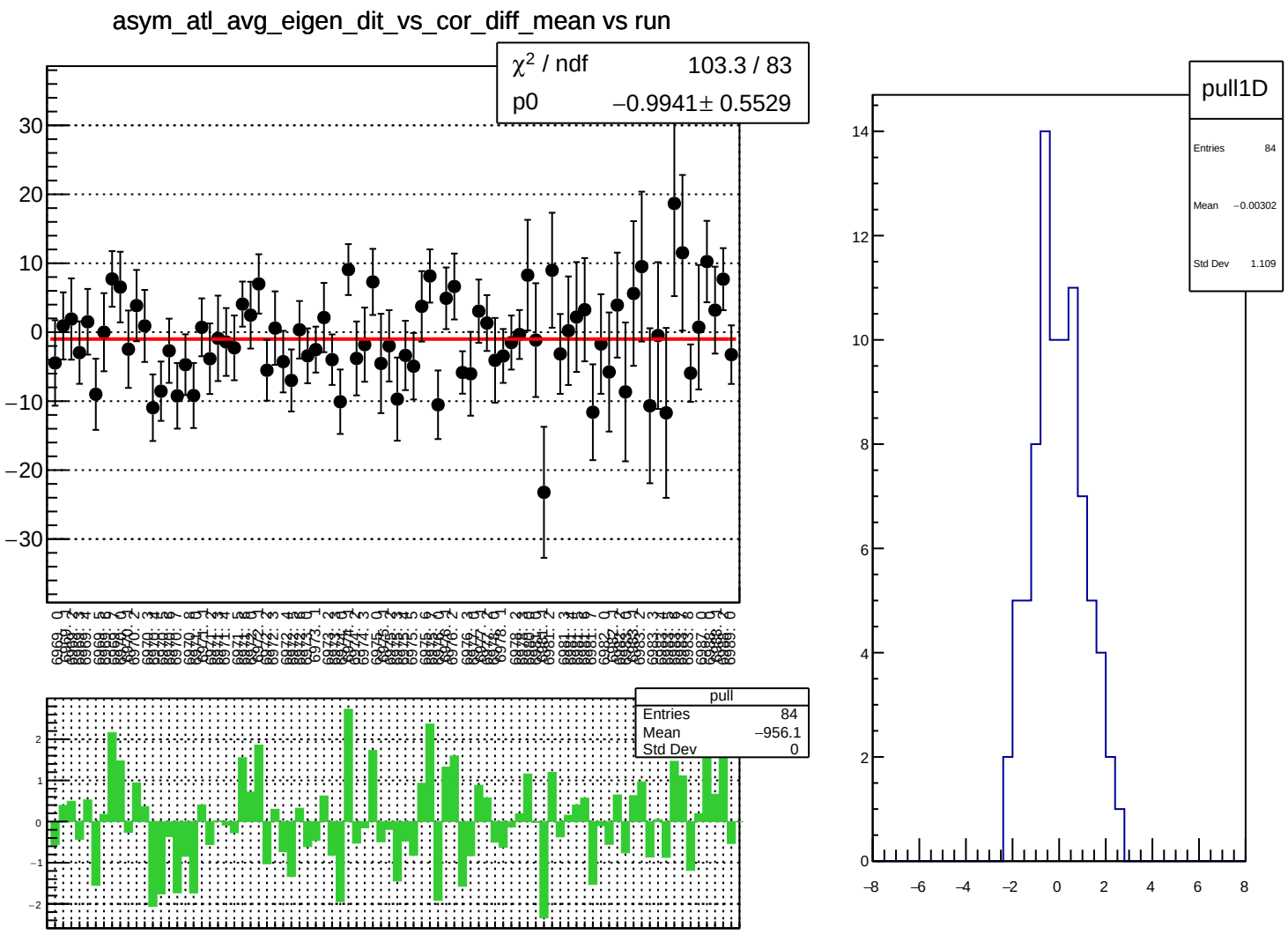

pull1D
Entries 84
Mean −0.003019
Std Dev 1.109

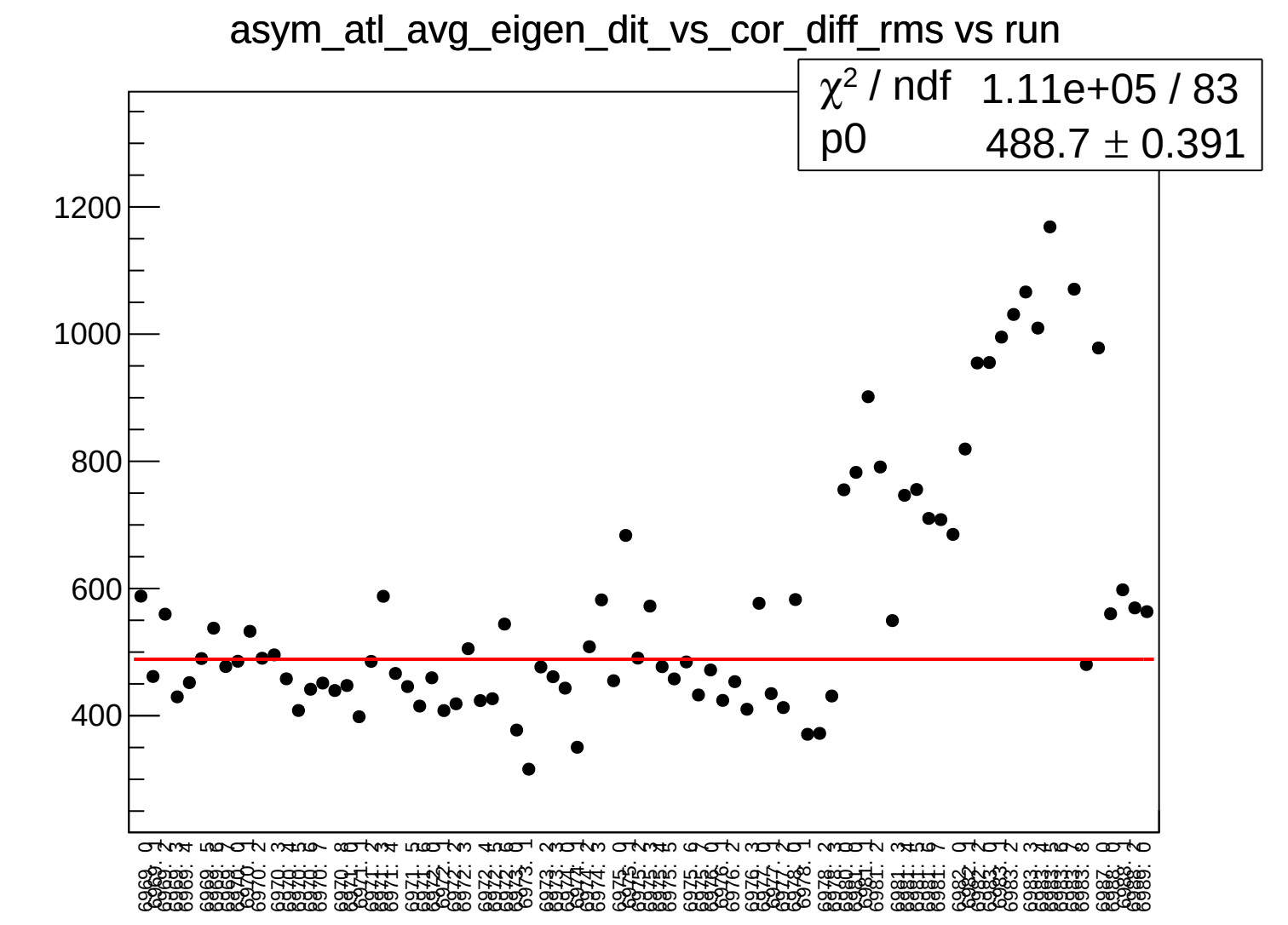

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.11e+05 / 83
p0 488.7 ± 0.3909
1200
1000
800
600
400

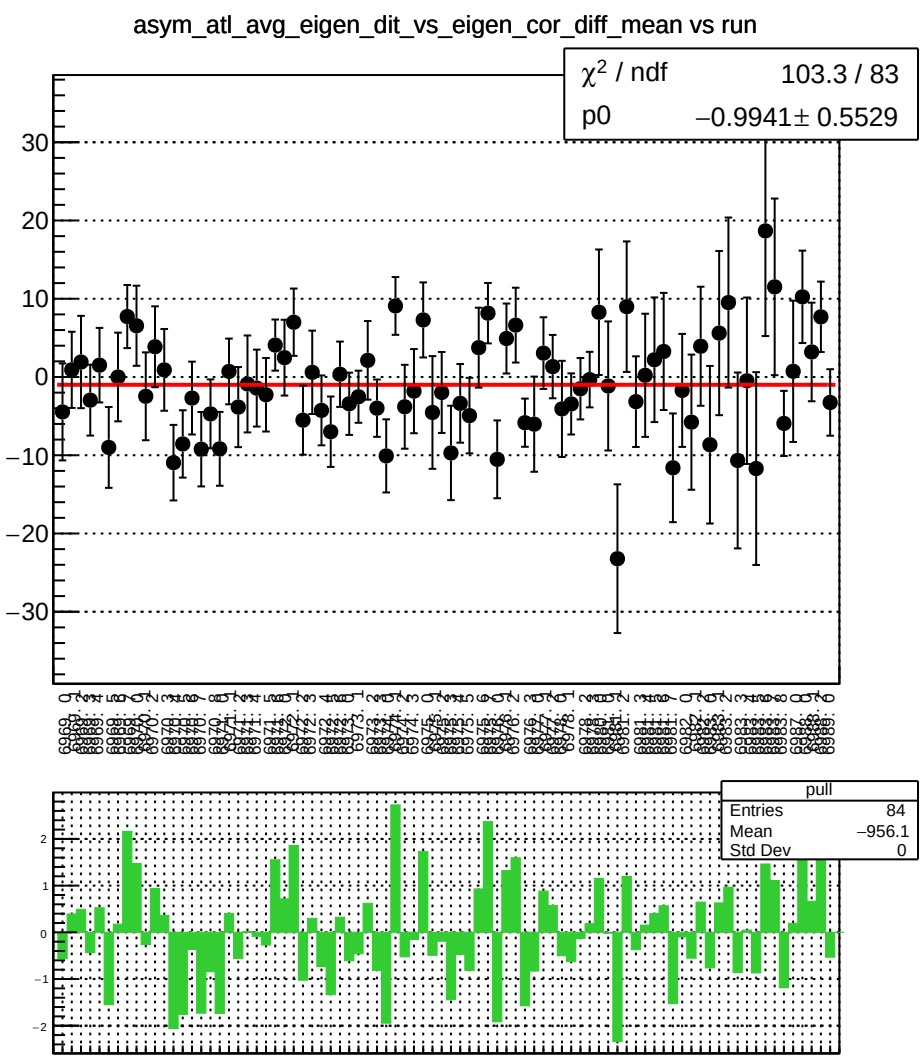

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.14 / 83
p0 −1.252e−05 ± 1.43e−05
pull
Entries 84
Mean −98
Std Dev 0

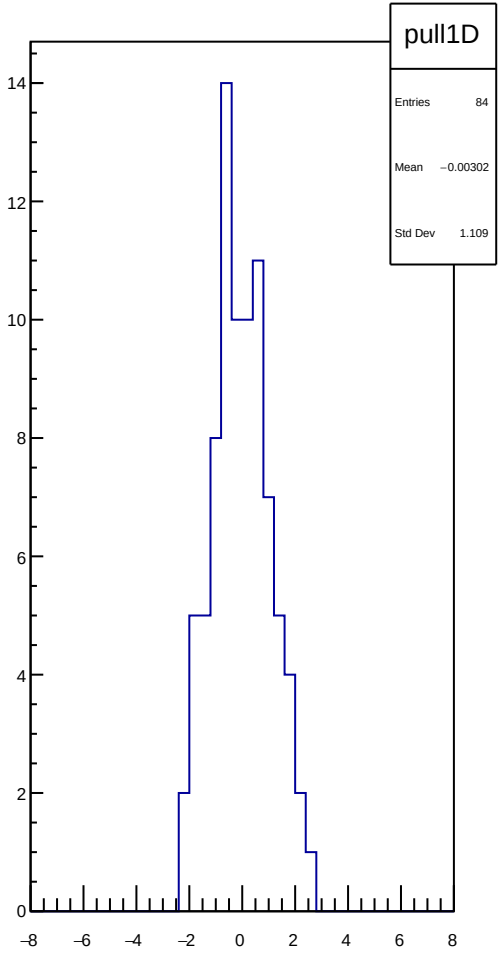

pull1D
Entries 84
Mean −0.02768
Std Dev 1.075

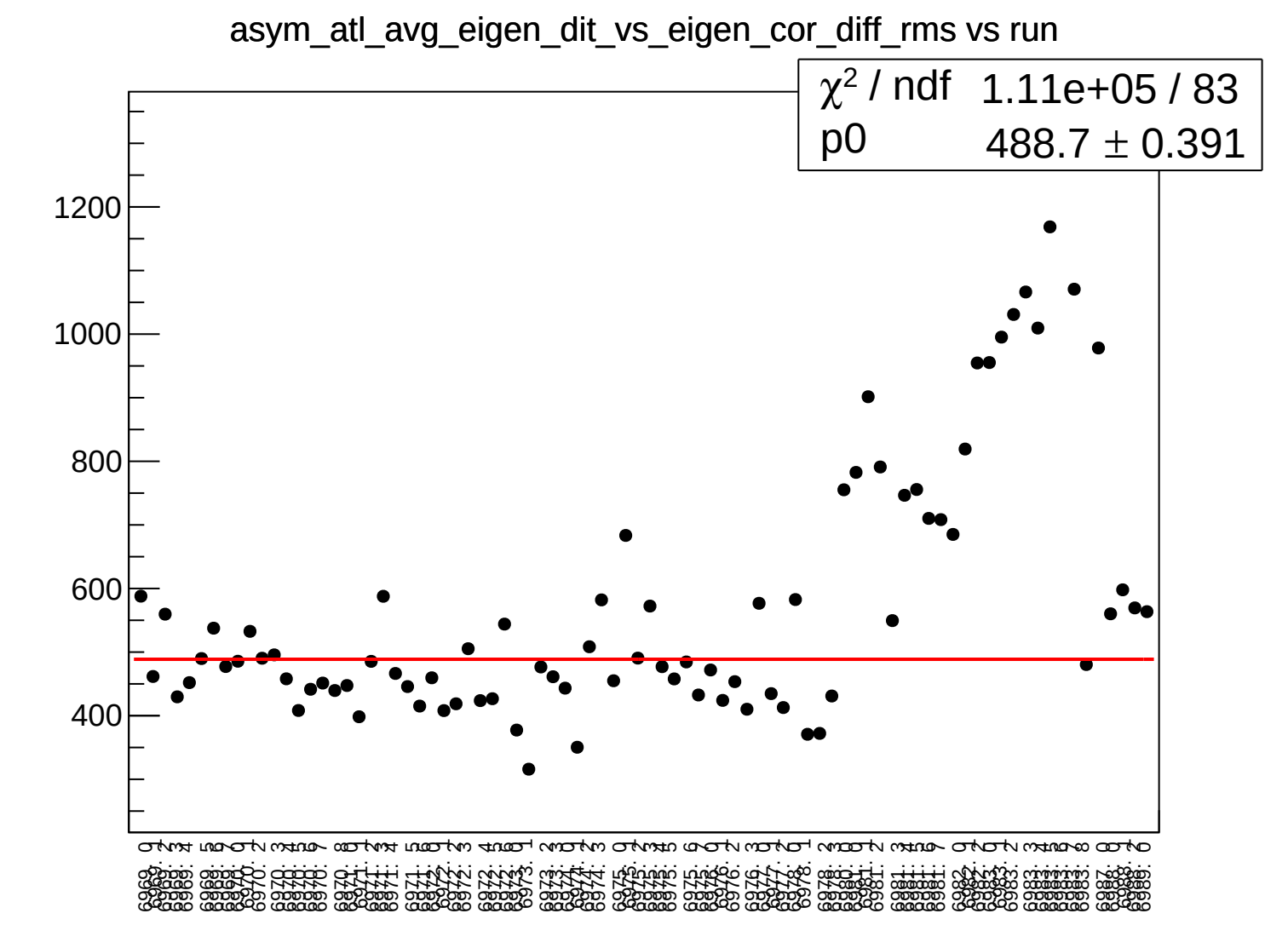

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.927e+04 / 83
p0 0.01296 ± 1.011e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

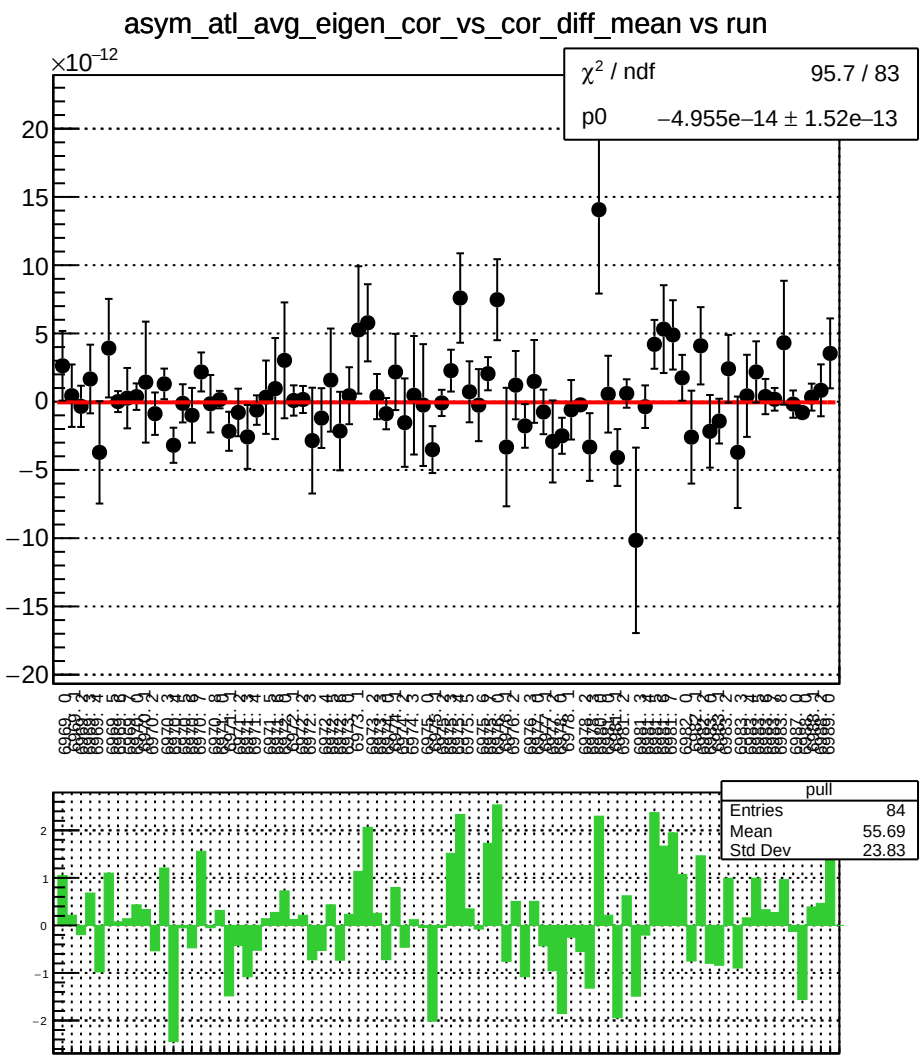

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 83
p0 −0.9941± 0.5529
pull
Entries 84
Mean −956.1
Std Dev 0
pull1D
Entries 84
Mean −0.00302
Std Dev 1.109

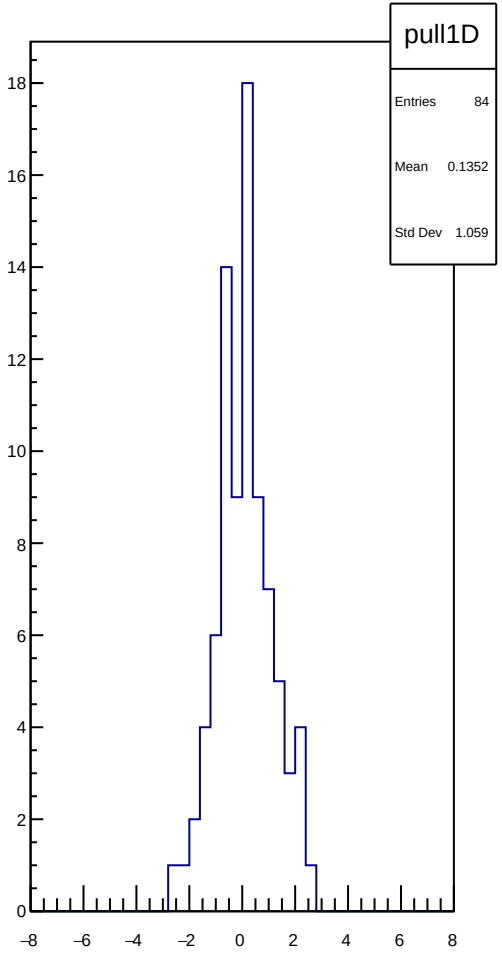

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.11e+05 / 83
p0 488.7 ± 0.391
1200
1000
800
600
400

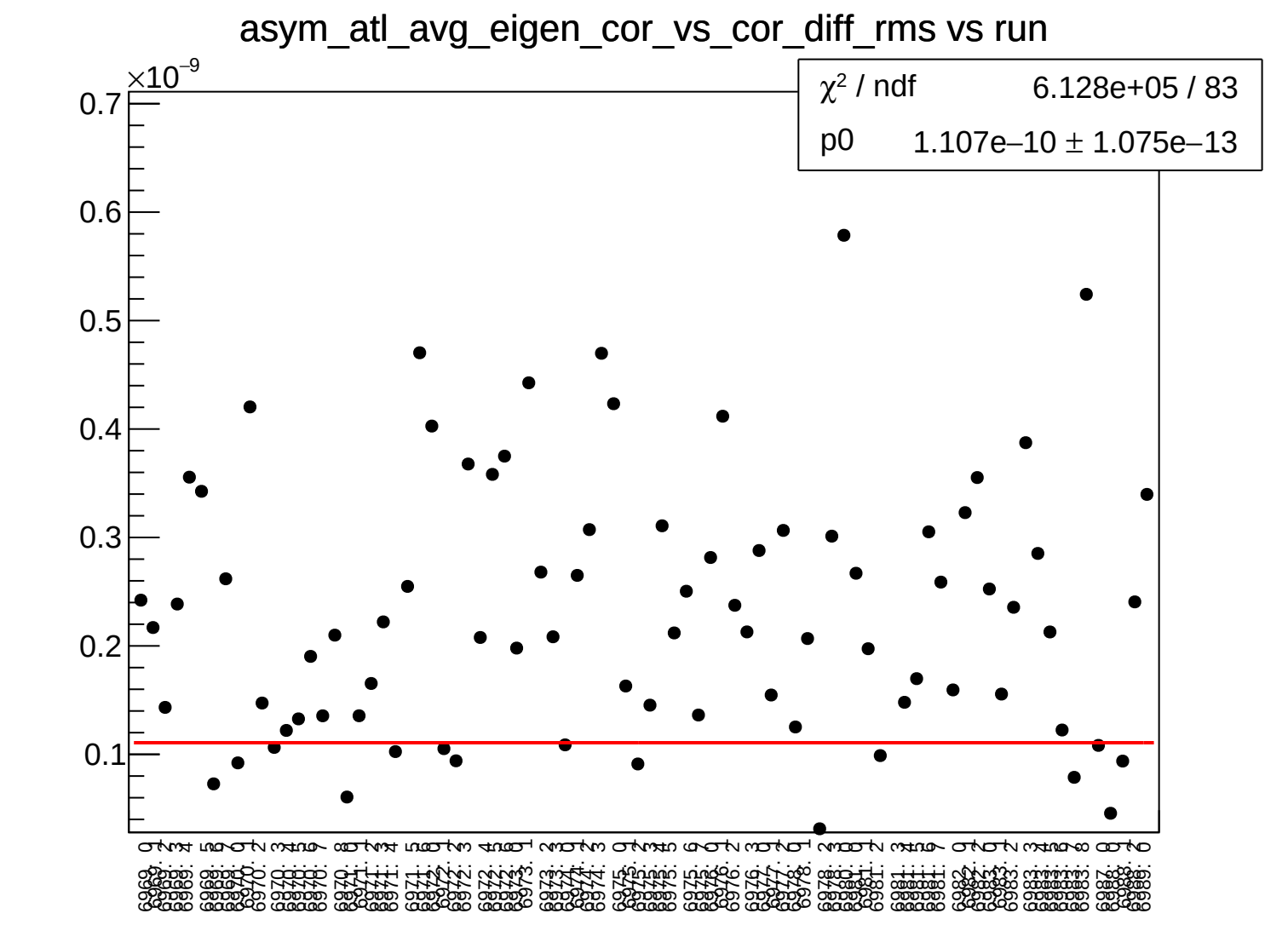

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.3 / 83
p0 −0.9941± 0.5529
pull
Entries 84
Mean −956.1
Std Dev 0

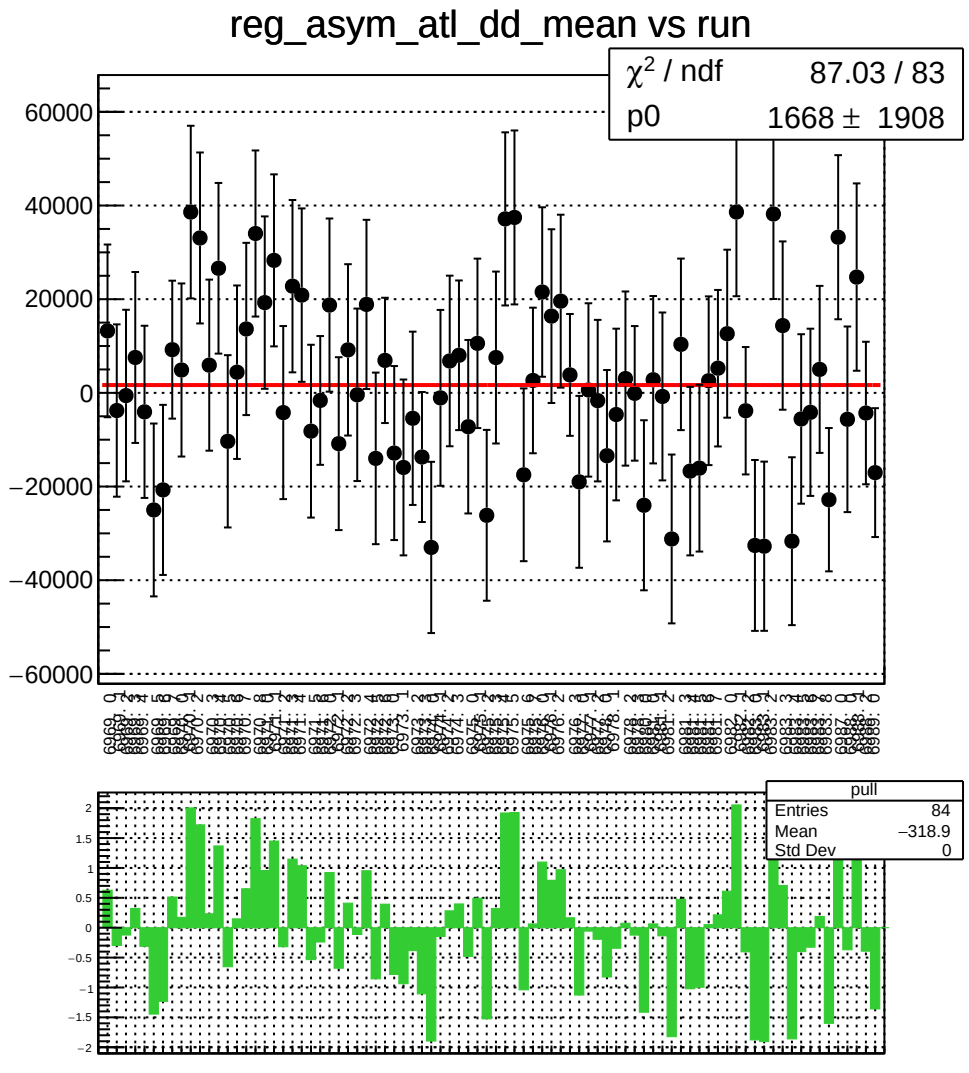

pull1D
Entries 84
Mean −0.00302
Std Dev 1.109

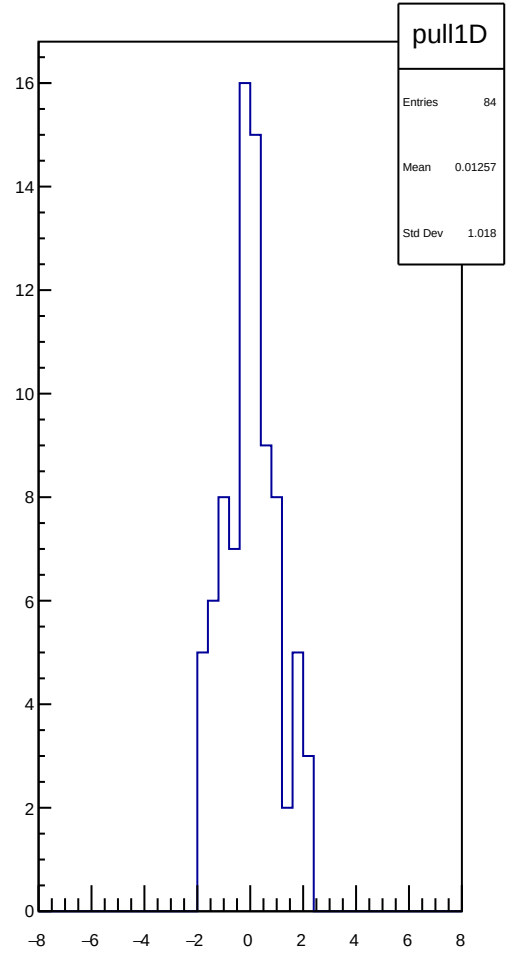

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.11e+05 / 83
p0 488.7 ± 0.391
1200
1000
800
600
400

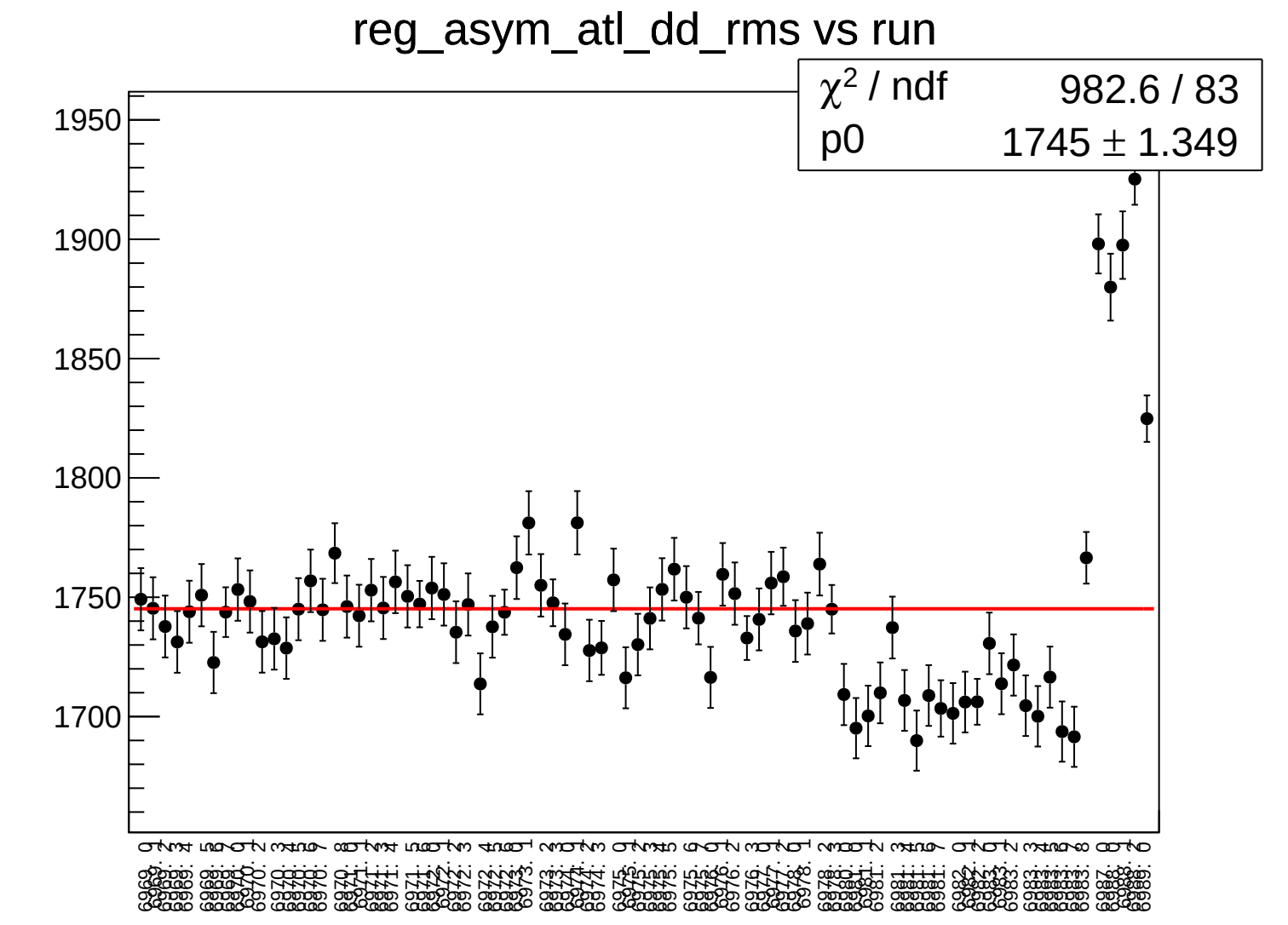

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.7 / 83
p0 −4.955e−14 ± 1.52e−13
pull
Entries 84
Mean 55.69
Std Dev 23.83

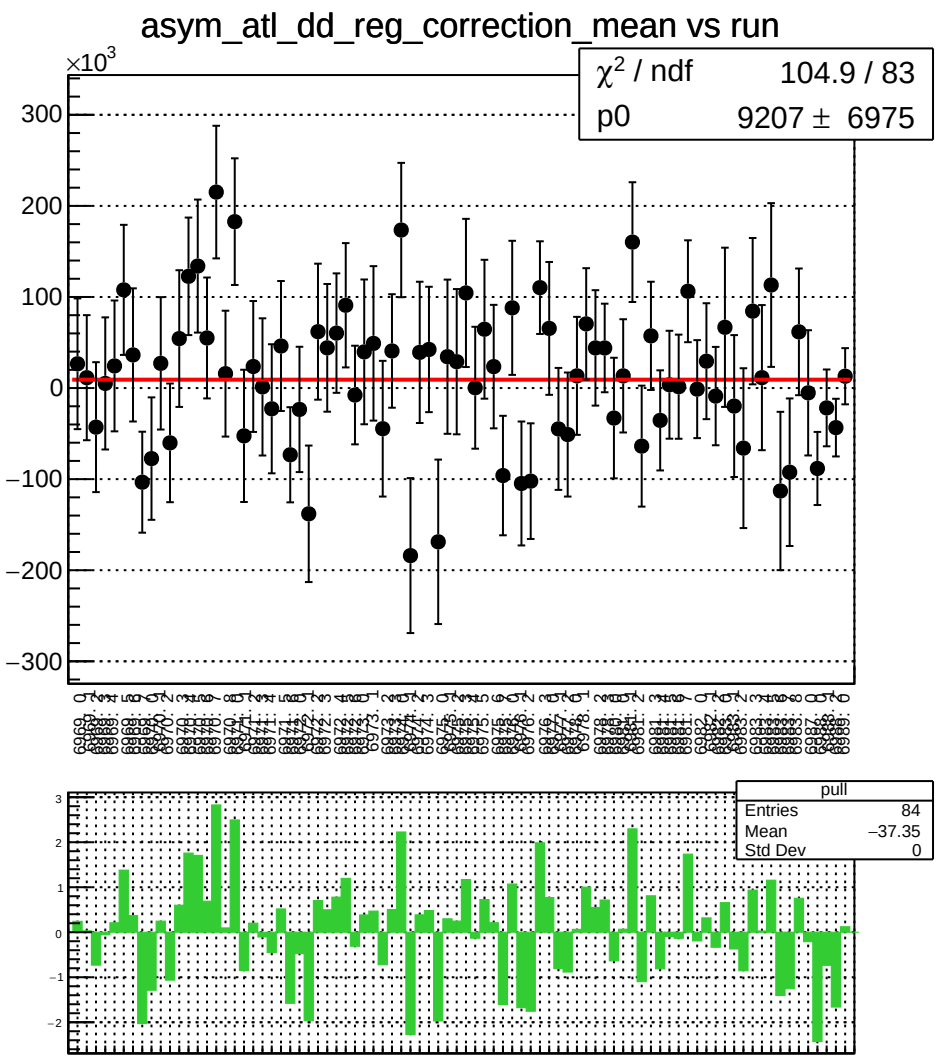

pull1D
Entries 84
Mean 0.1352
Std Dev 1.059

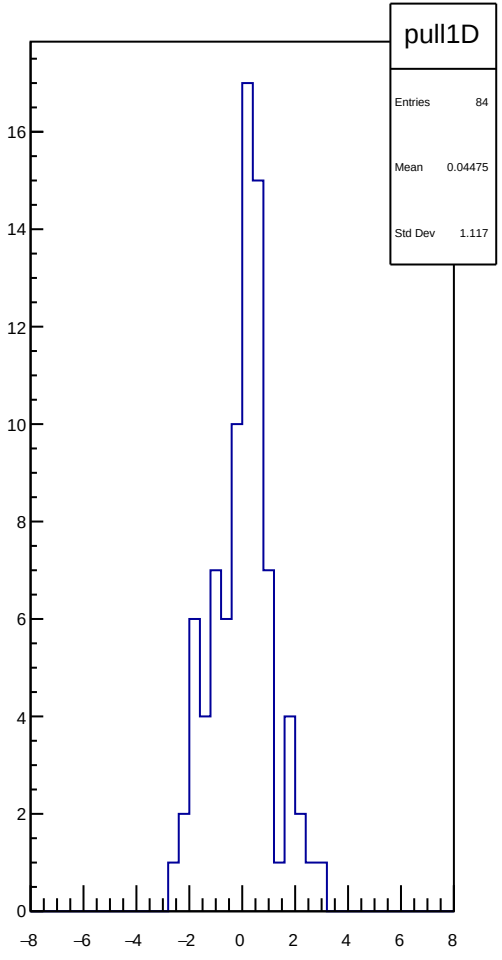

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.128e+05 / 83
p0 1.107e−10 ± 1.075e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

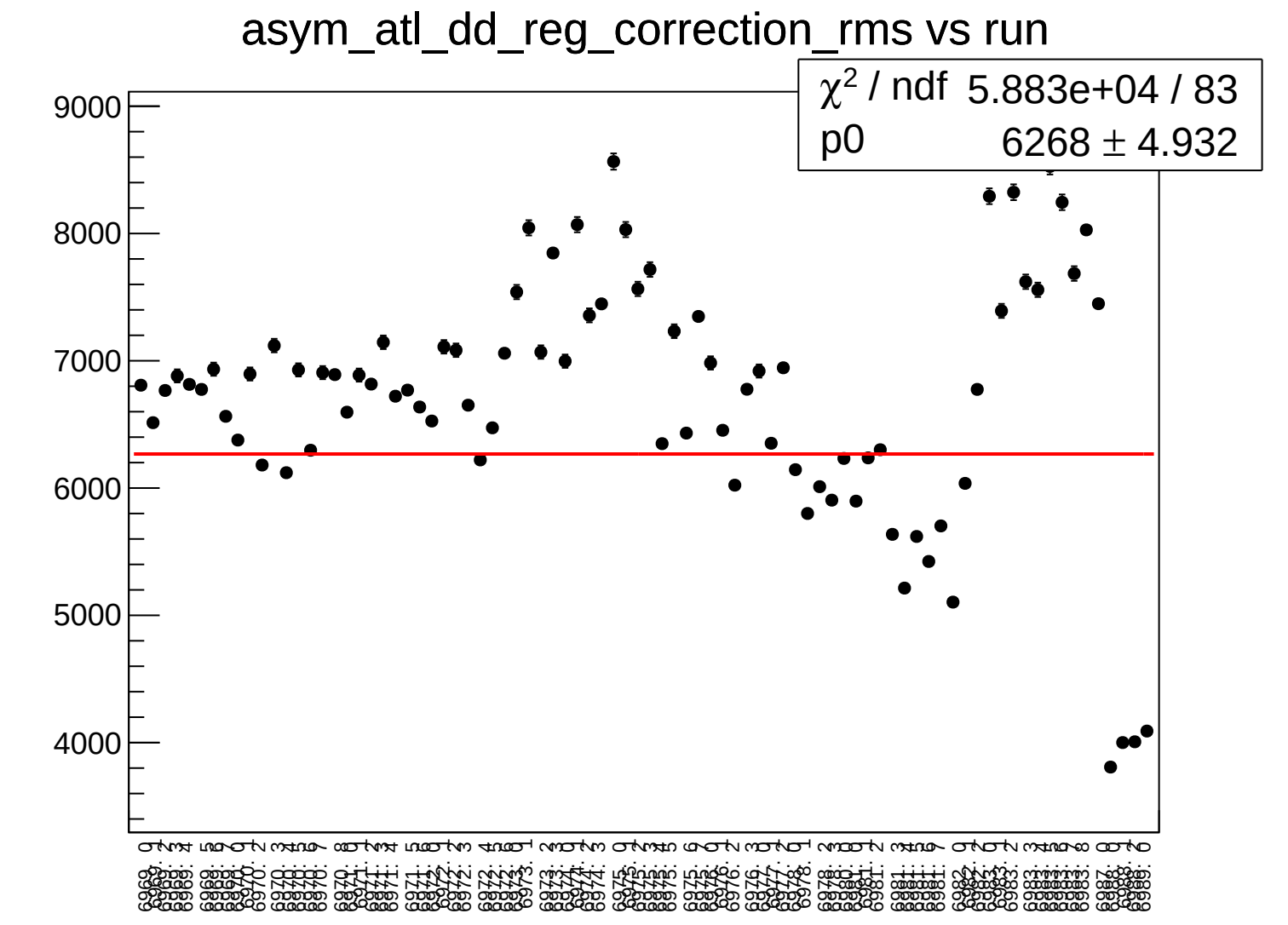

reg_asym_atl_dd_mean vs run
χ² / ndf 87.03 / 83
p0 1668 ± 1908
pull
Entries 84
Mean −318.9
Std Dev 0

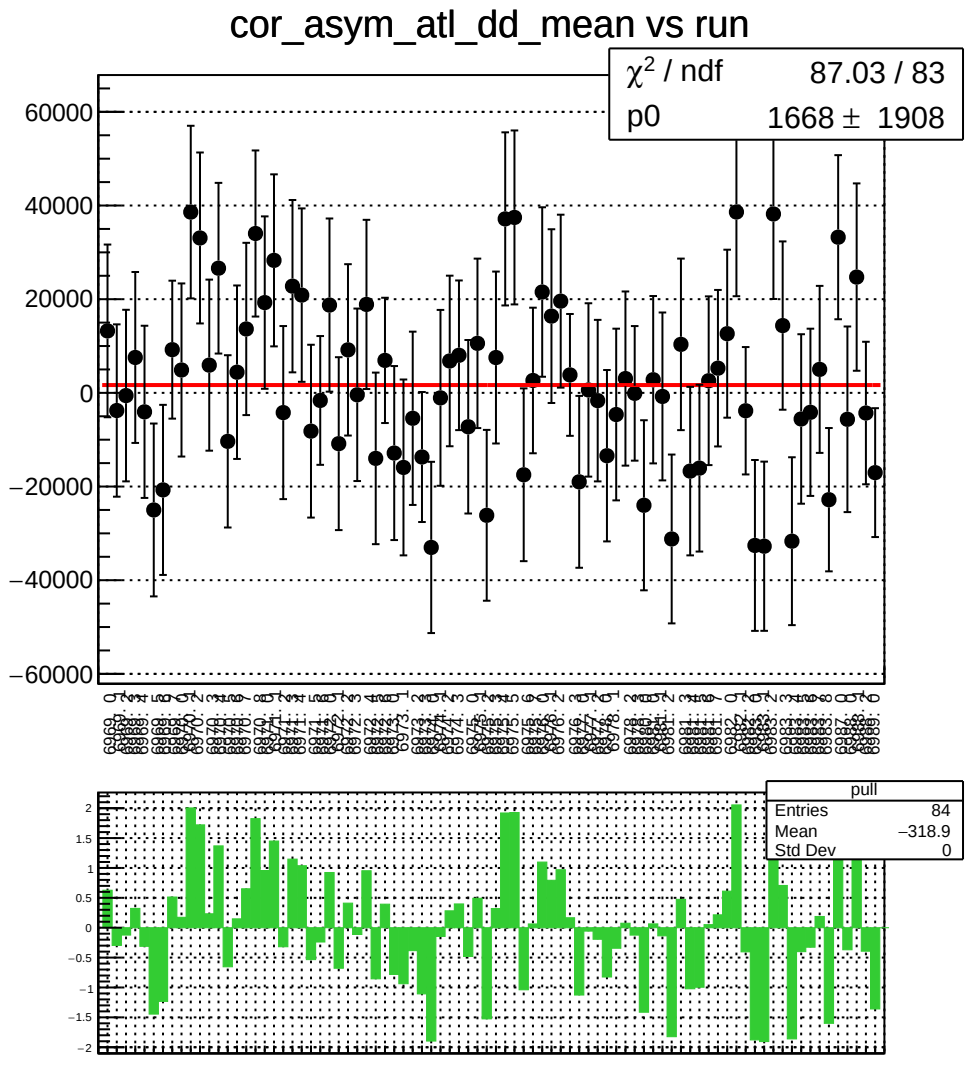

pull1D
Entries 84
Mean 0.01257
Std Dev 1.018

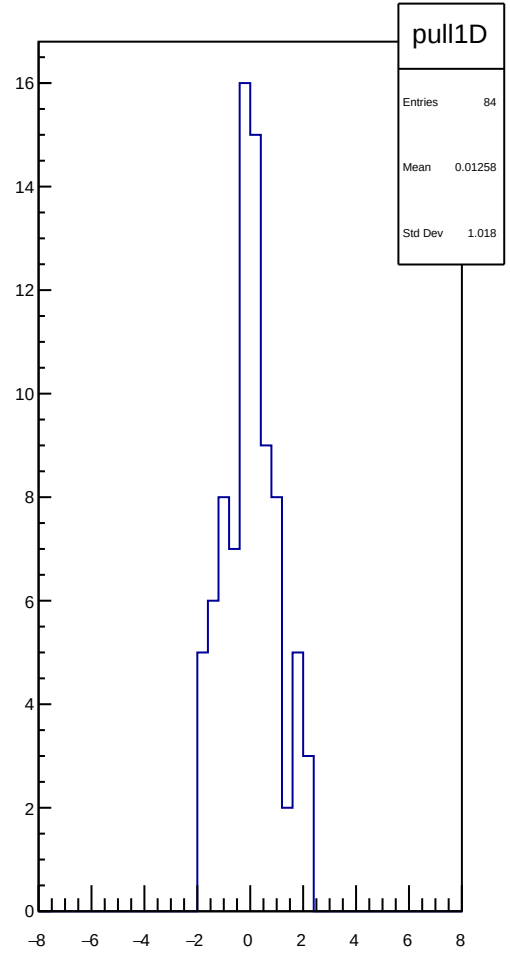

reg_asym_atl_dd_rms vs run
χ^2 / ndf 982.6 / 83
p0 1745 ± 1.349
1950
1900
1850
1800
1750
1700

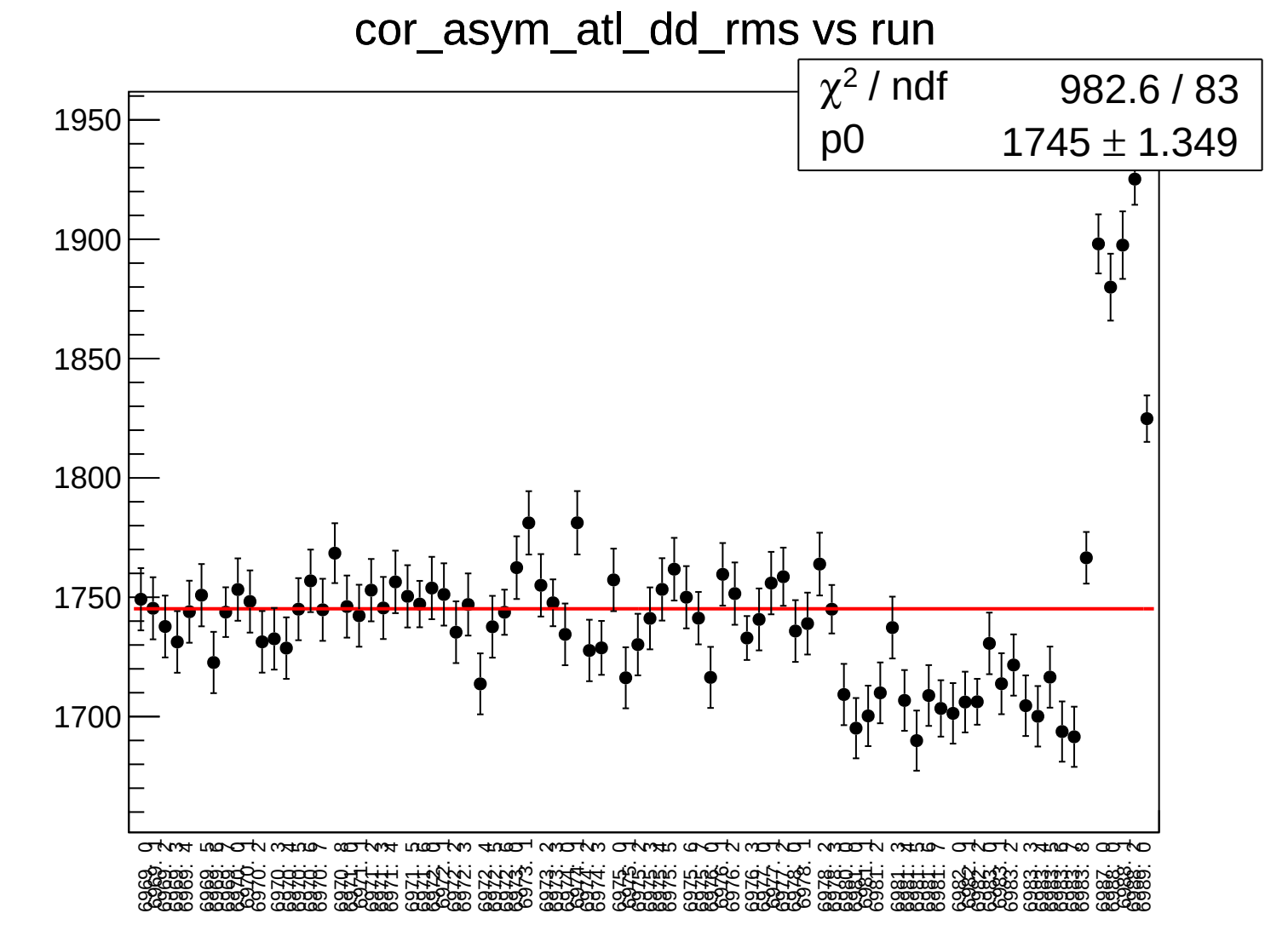

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 104.9 / 83
p0 9207 ± 6975
pull
Entries 84
Mean −37.35
Std Dev 0

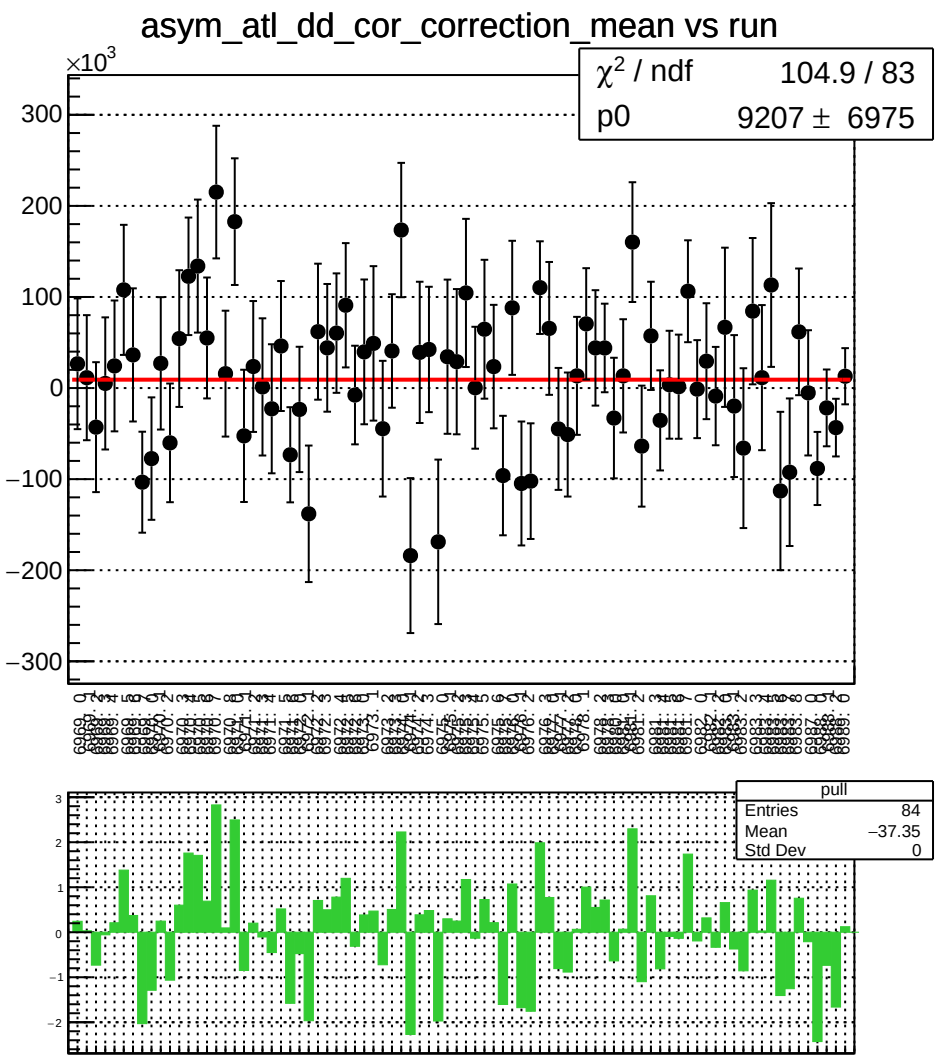

pull1D
Entries 84
Mean 0.04475
Std Dev 1.117

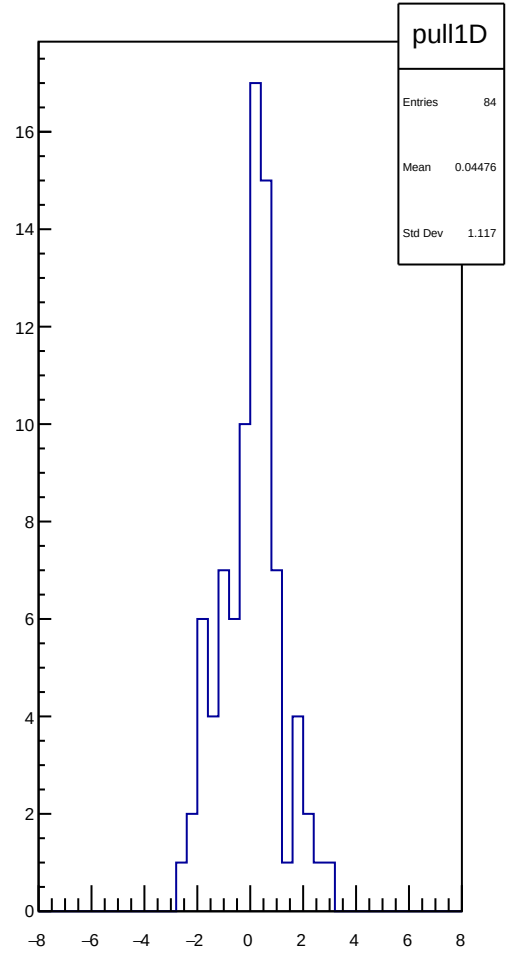

asym_atl_dd_reg_correction_rms vs run
χ^2 / ndf 5.883e+04 / 83
p0 6268 ± 4.932
9000
8000
7000
6000
5000
4000

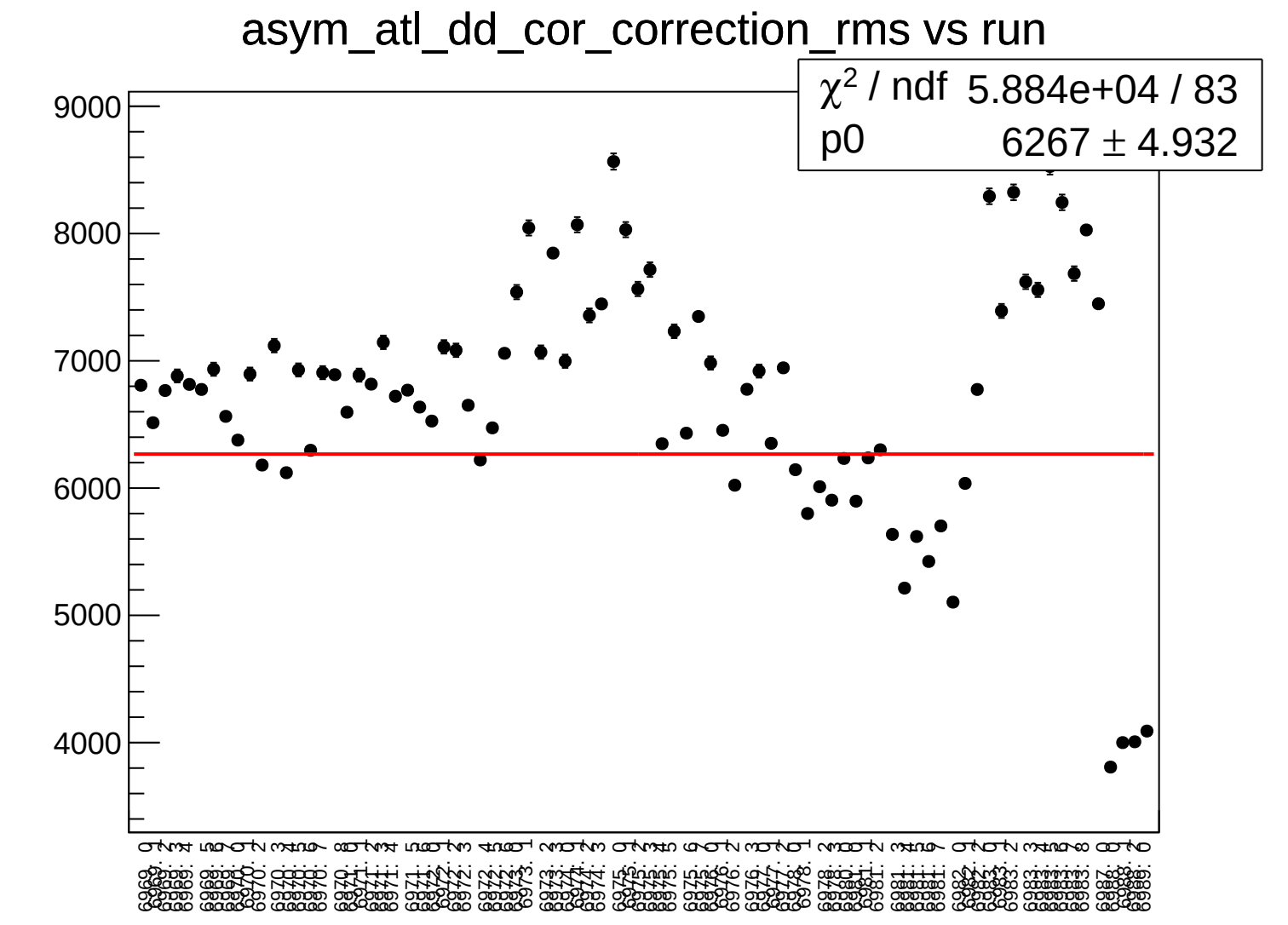

cor_asym_atl_dd_mean vs run
χ² / ndf 87.03 / 83
p0 1668 ± 1908
pull
Entries 84
Mean −318.9
Std Dev 0

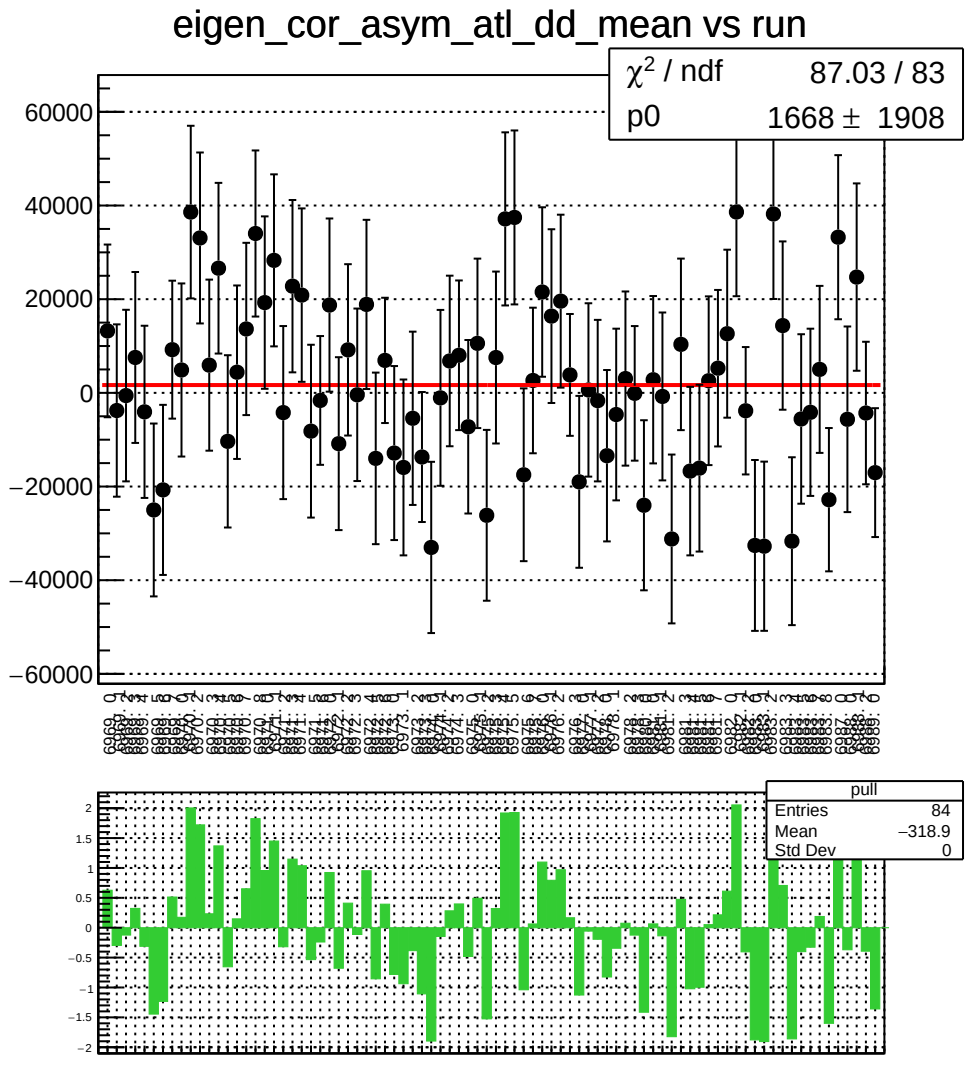

pull1D
Entries 84
Mean 0.01258
Std Dev 1.018

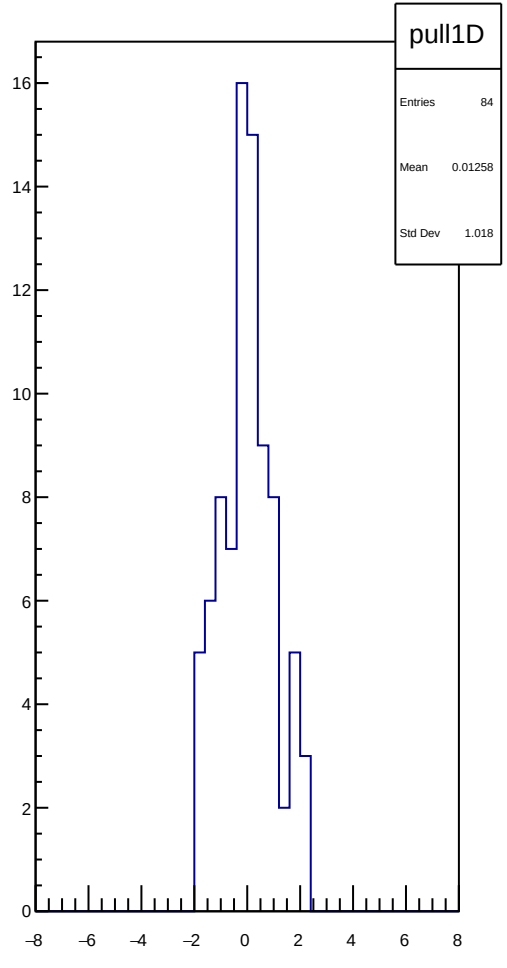

cor_asym_atl_dd_rms vs run
χ^2 / ndf 982.6 / 83
p0 1745 ± 1.349
1950
1900
1850
1800
1750
1700

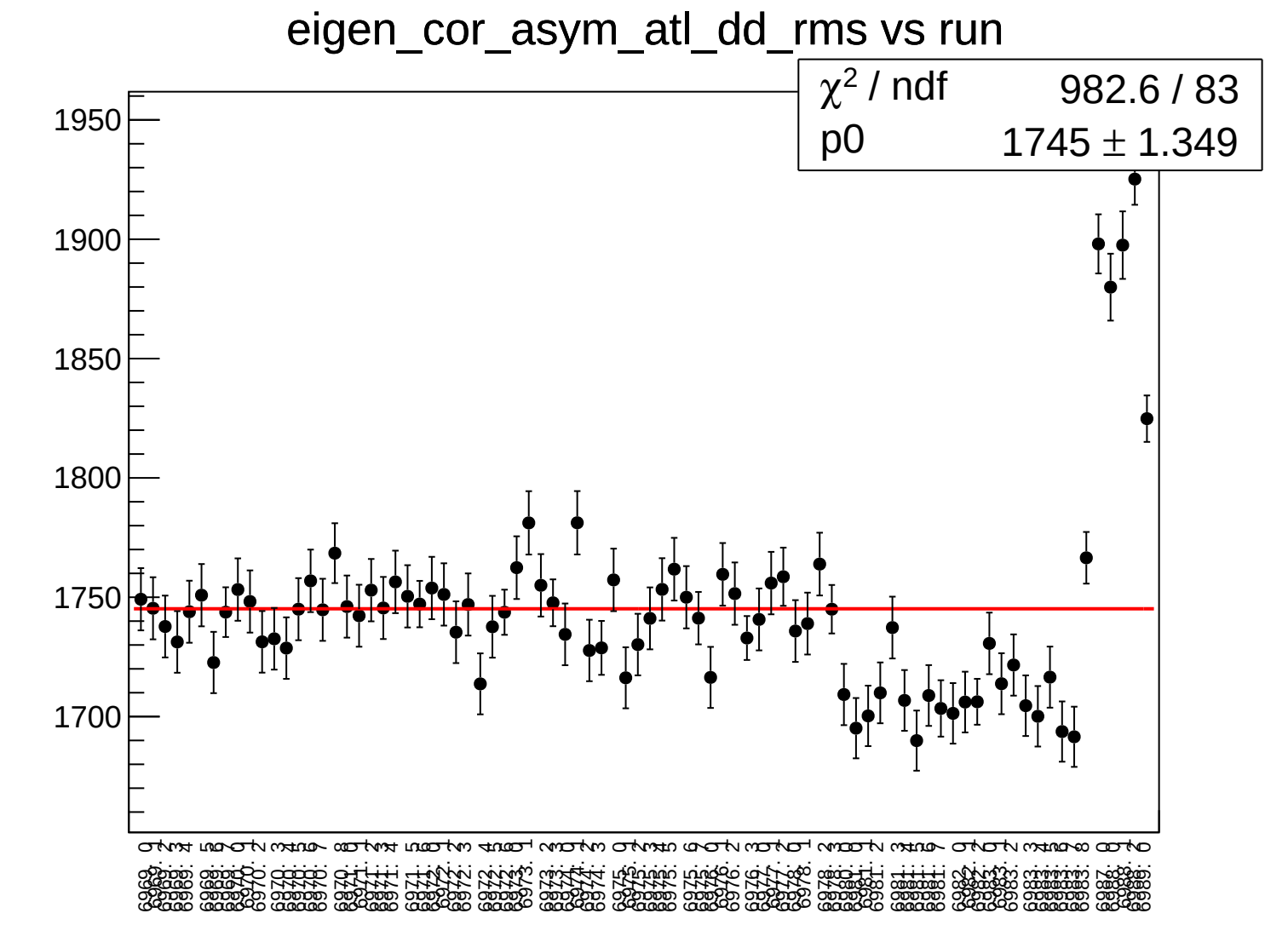

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 104.9 / 83
p0 9207 ± 6975
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −37.35
Std Dev 0
3
2
1
0
−1
−2

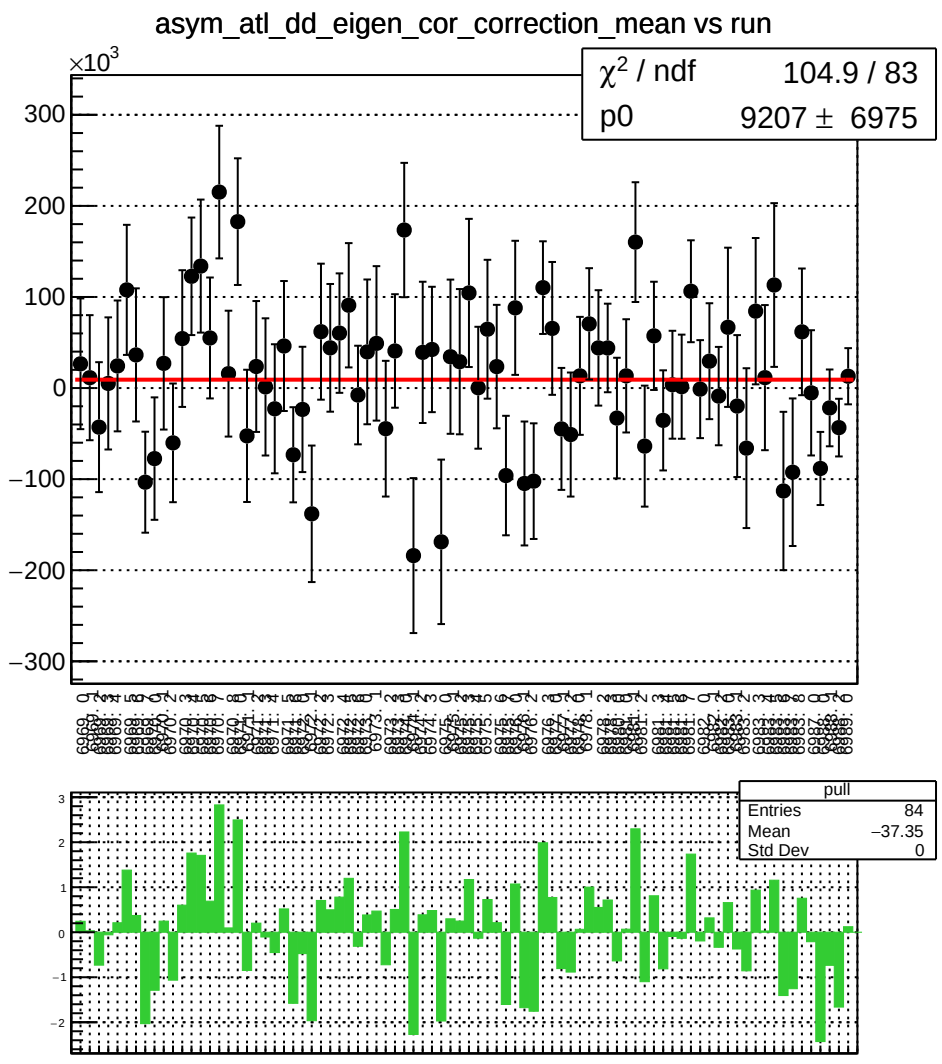

pull1D
Entries 84
Mean 0.04476
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

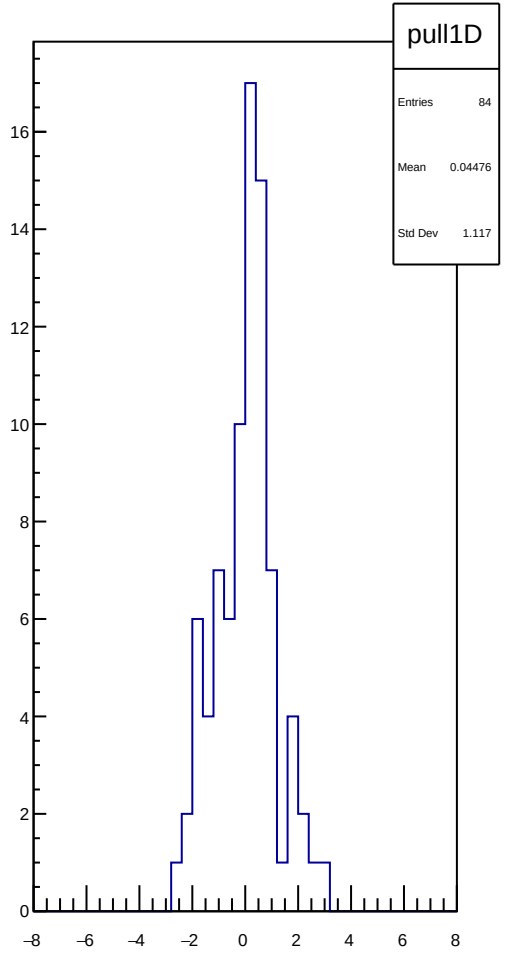

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 5.884e+04 / 83
p0 6267 ± 4.932
9000
8000
7000
6000
5000
4000

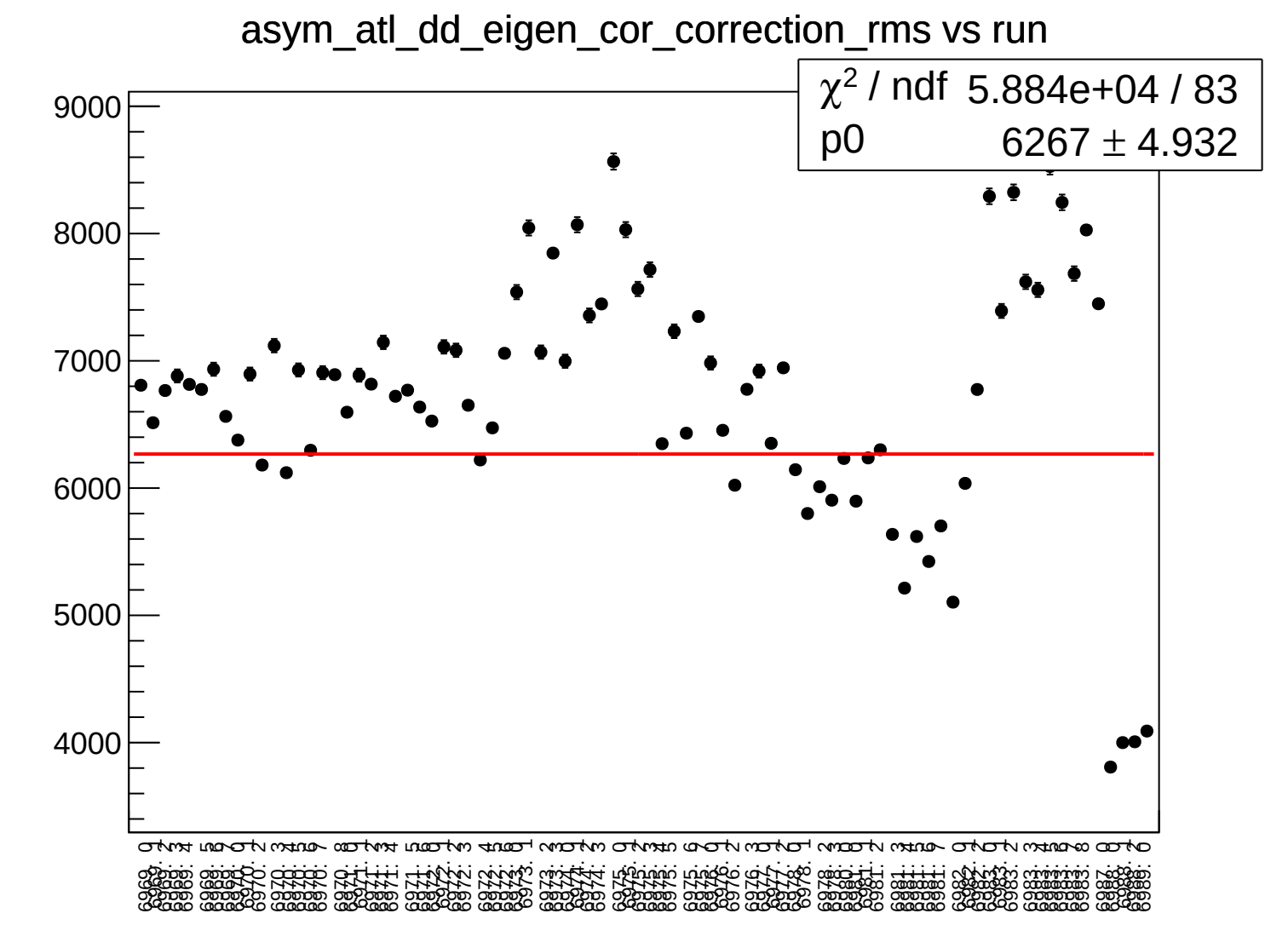

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 87.03 / 83
p0 1668 ± 1908
pull
Entries 84
Mean −318.9
Std Dev 0

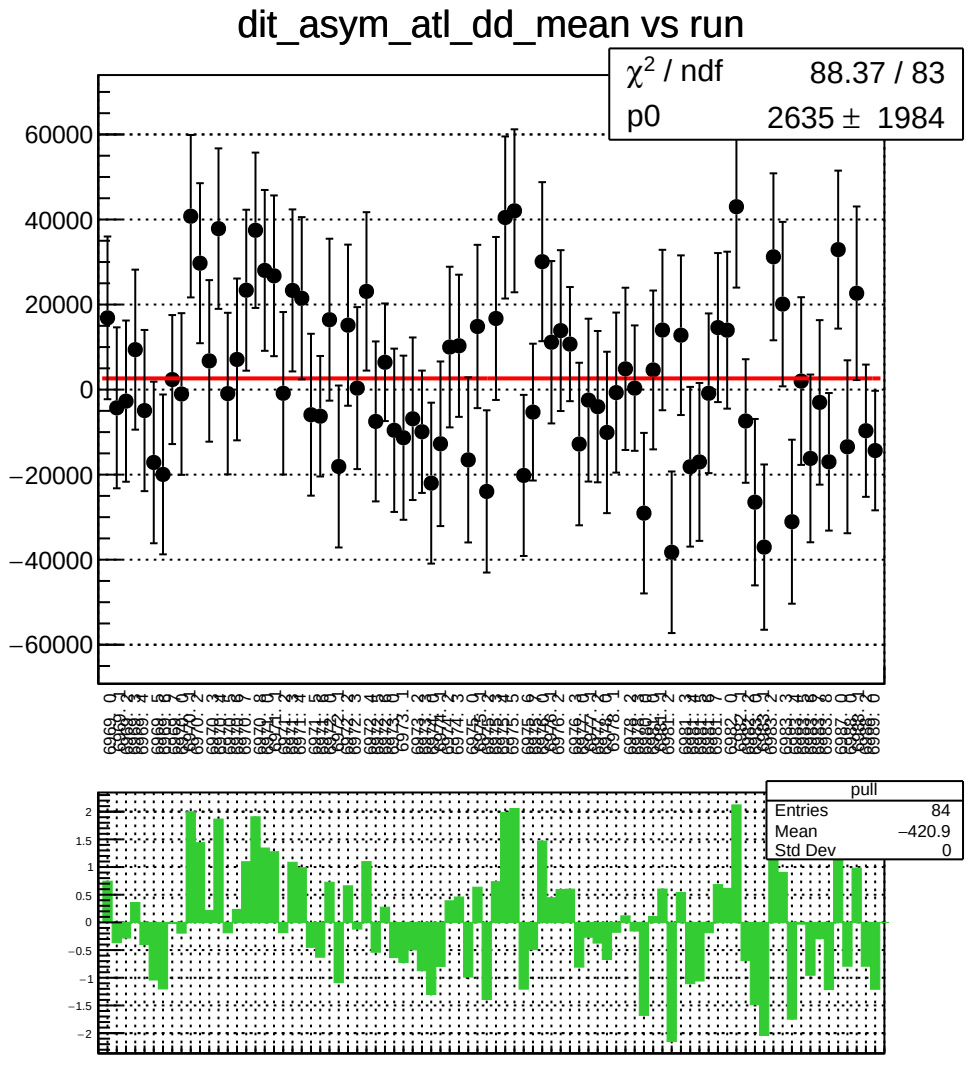

pull1D
Entries 84
Mean 0.01258
Std Dev 1.018

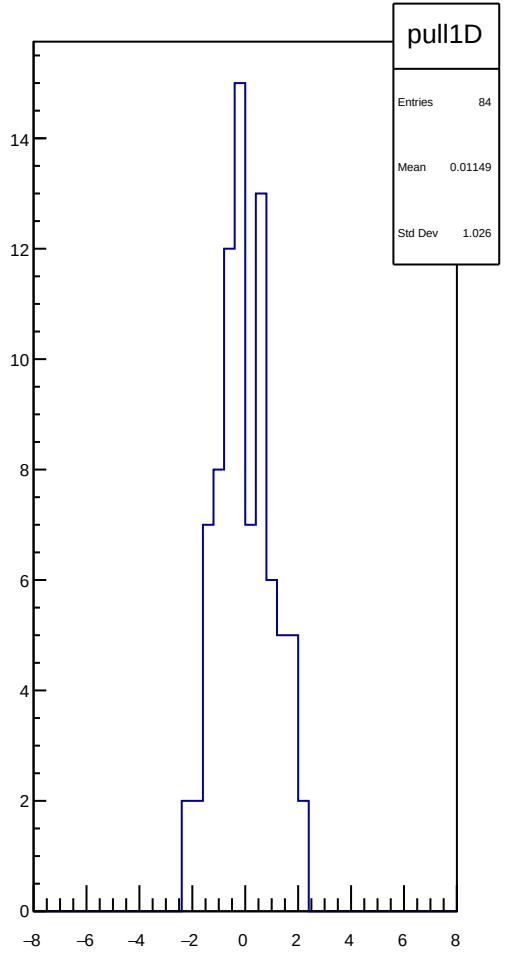

eigen_cor_asym_atl_dd_rms vs run
χ^2 / ndf 982.6 / 83
p0 1745 ± 1.349
1950
1900
1850
1800
1750
1700

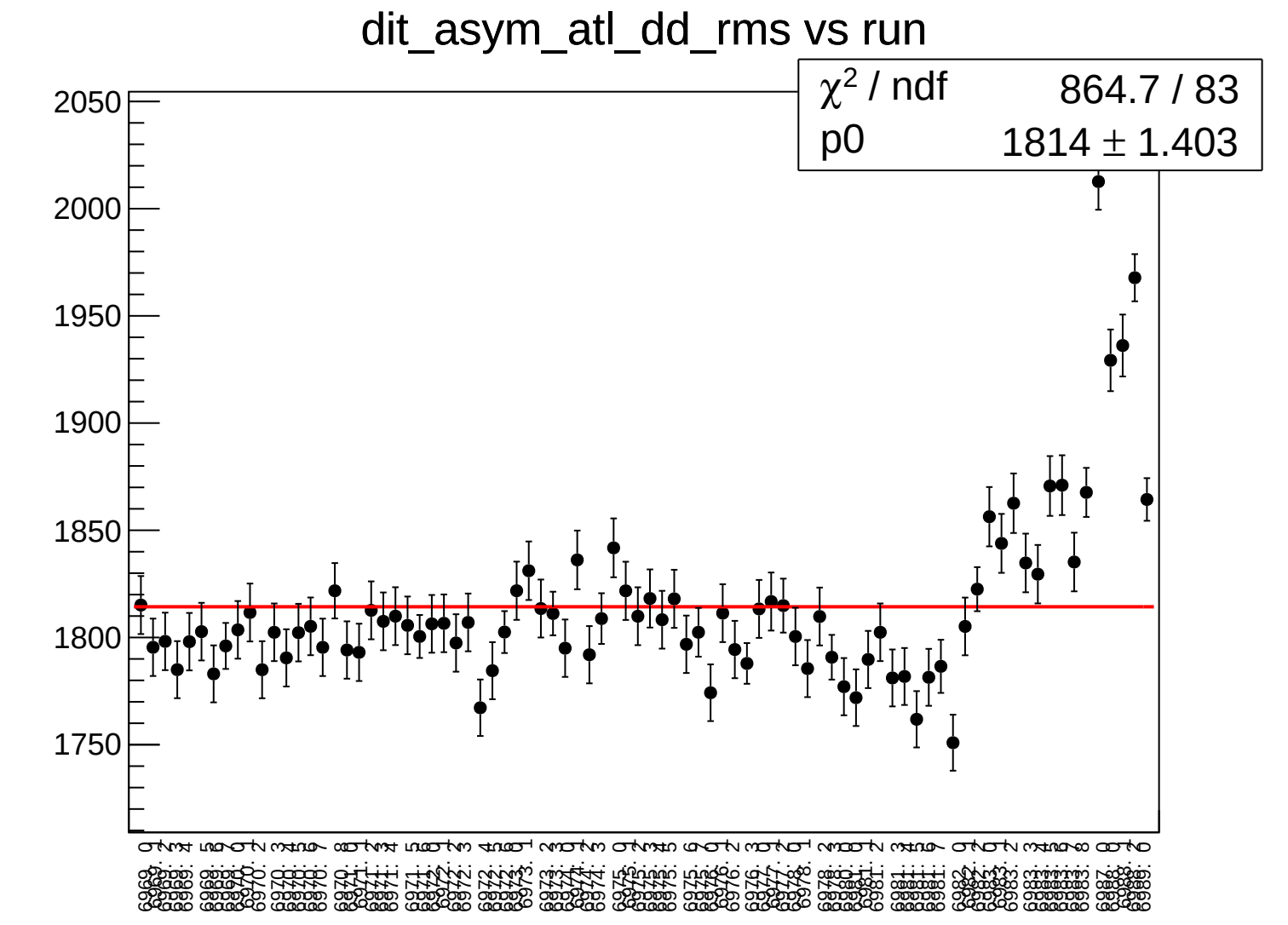

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 104.9 / 83
p0 9207 ± 6975
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −37.35
Std Dev 0
3
2
1
0
−1
−2

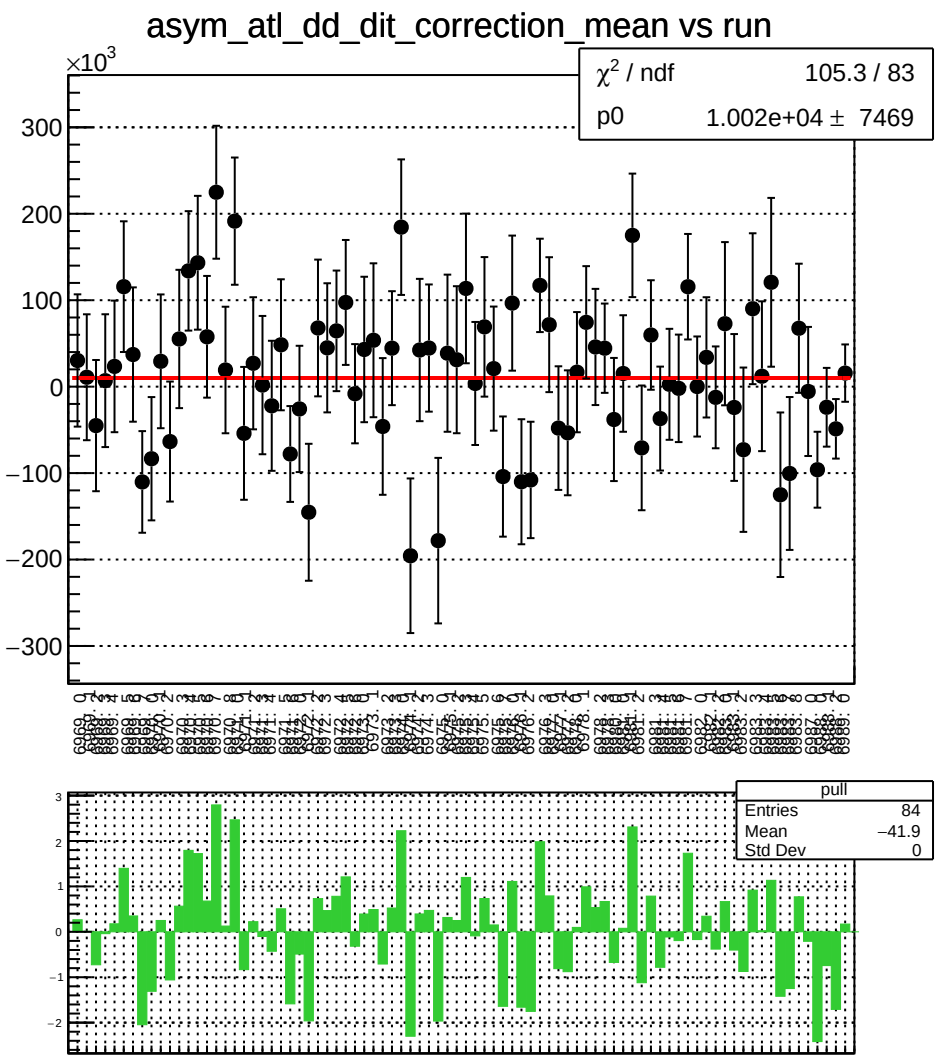

pull1D
Entries 84
Mean 0.04476
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

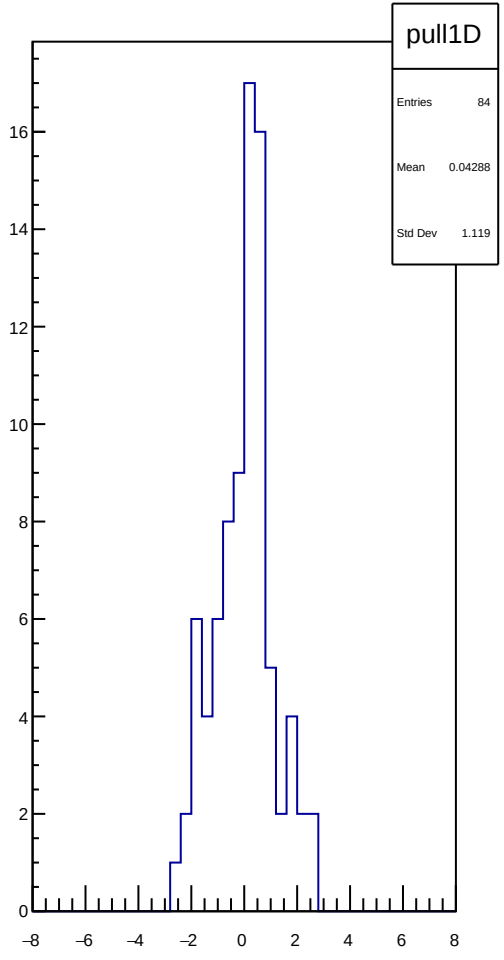

asym_atl_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 5.884e+04 / 83
p0 6267 ± 4.932
9000
8000
7000
6000
5000
4000

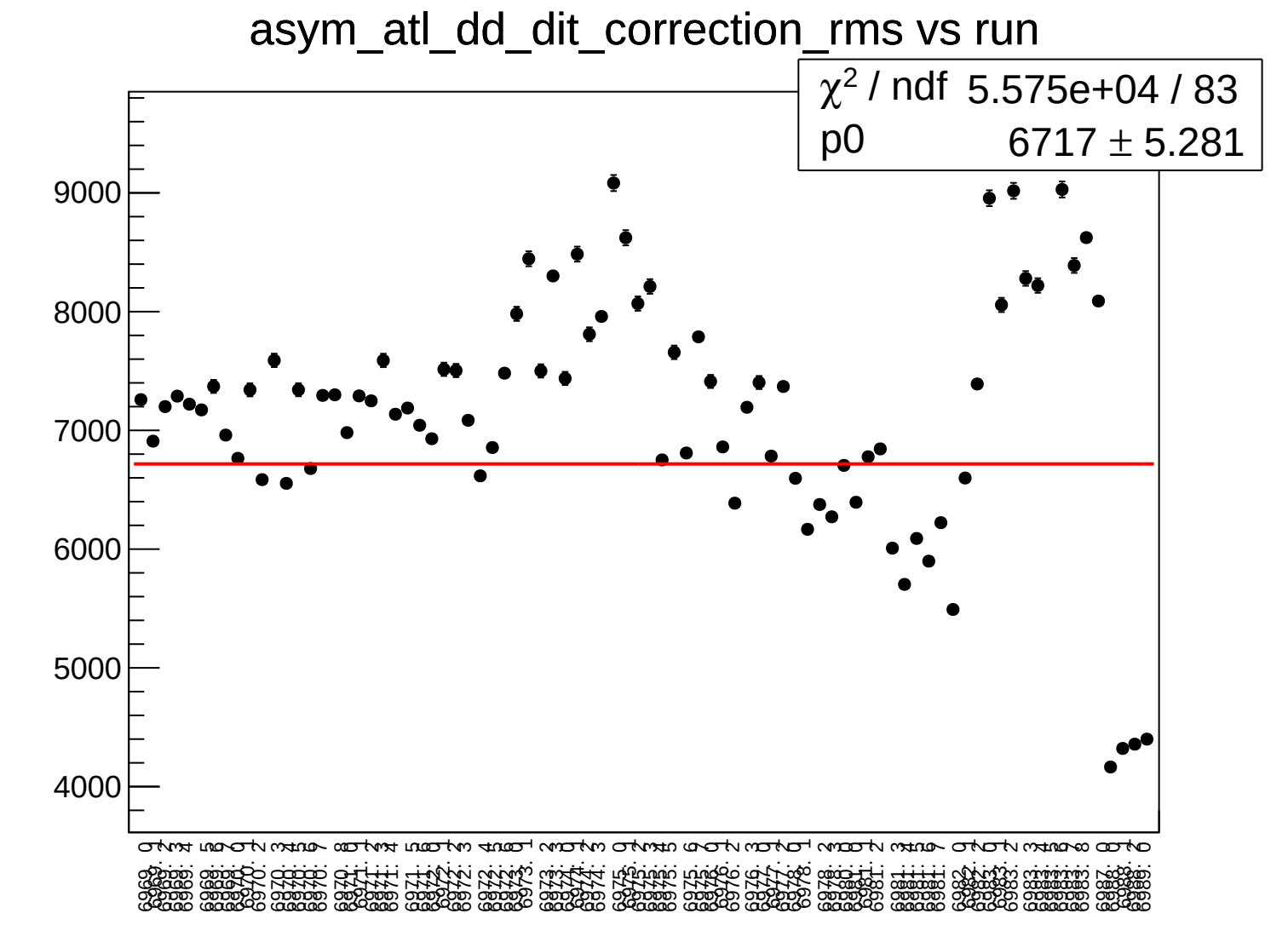

dit_asym_atl_dd_mean vs run
χ² / ndf 88.37 / 83
p0 2635 ± 1984
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −420.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

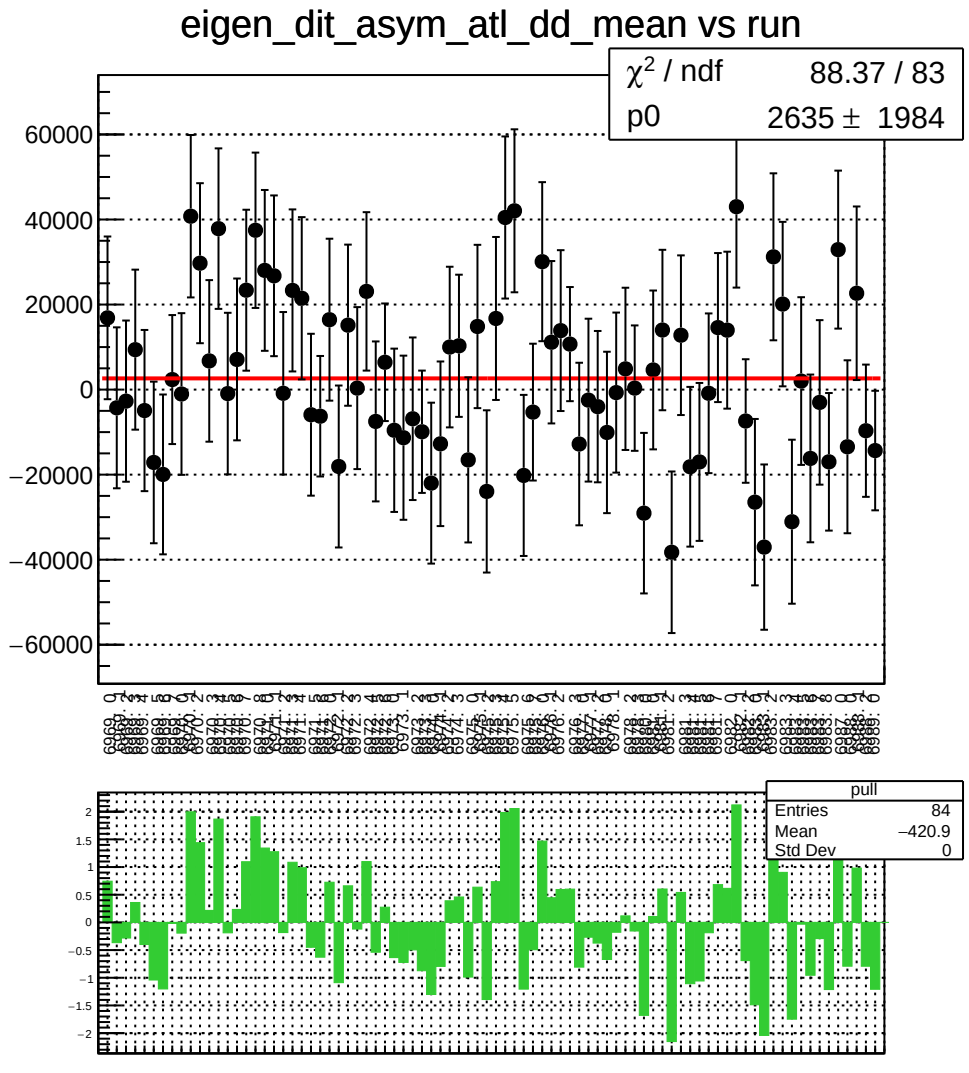

pull1D
Entries 84
Mean 0.01149
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

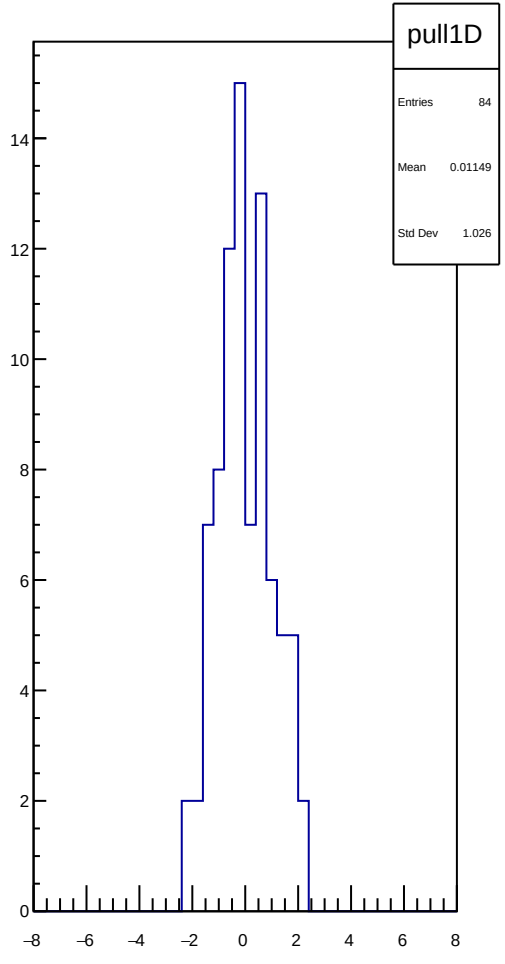

dit_asym_atl_dd_rms vs run
χ² / ndf 864.7 / 83
p0 1814 ± 1.403
2050
2000
1950
1900
1850
1800
1750

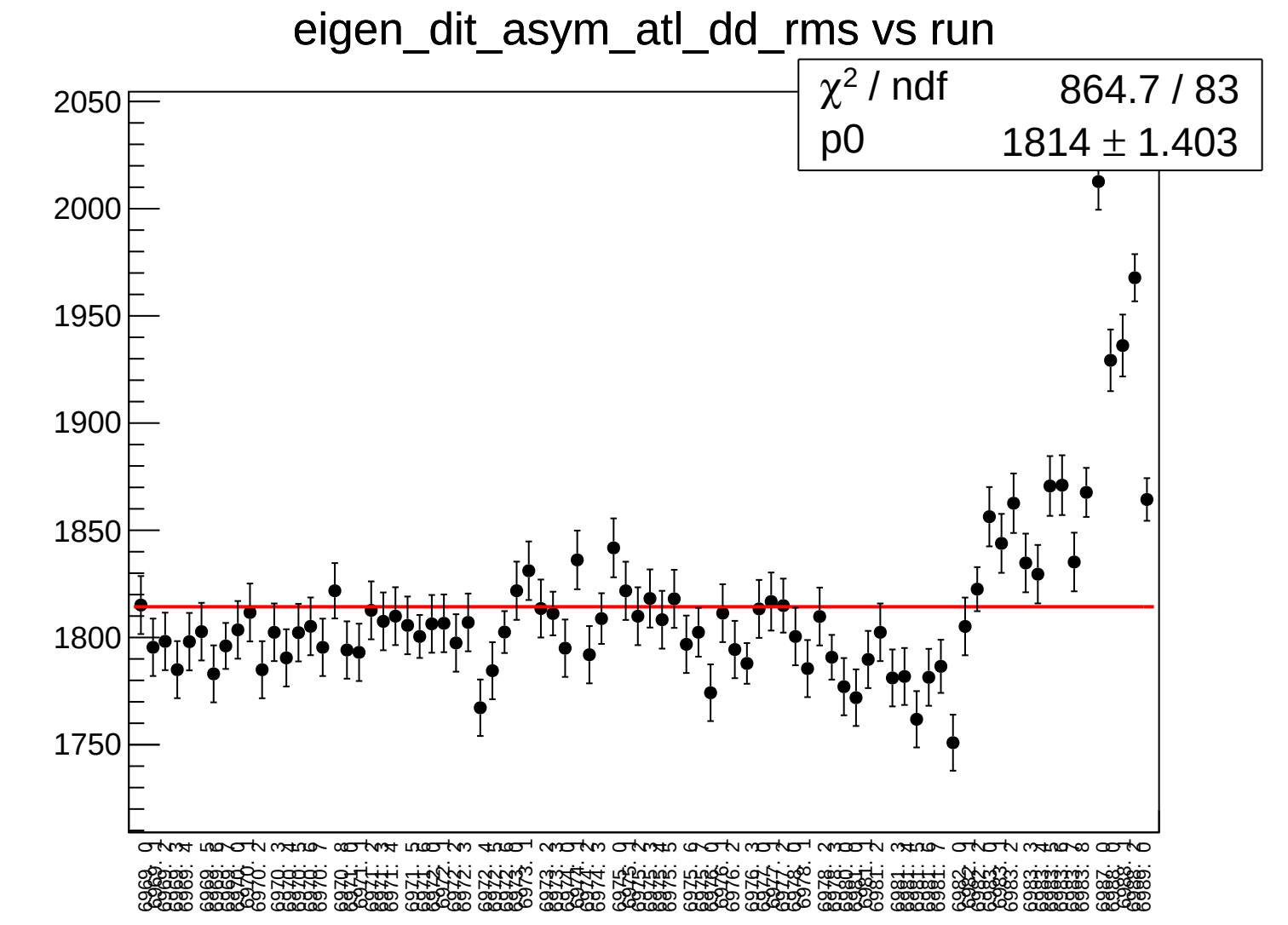

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 105.3 / 83
p0 1.002e+04 ± 7469
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −41.9
Std Dev 0
3
2
1
0
−1
−2

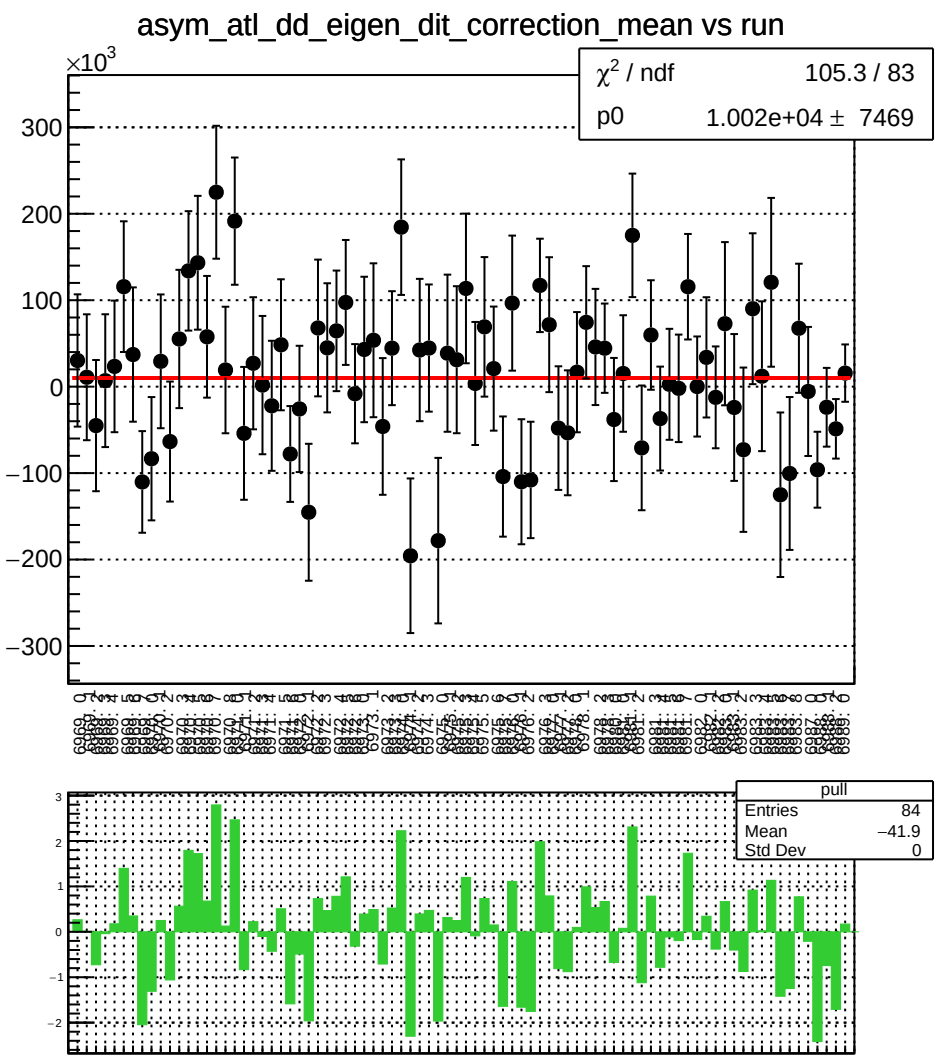

pull1D
Entries 84
Mean 0.04288
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

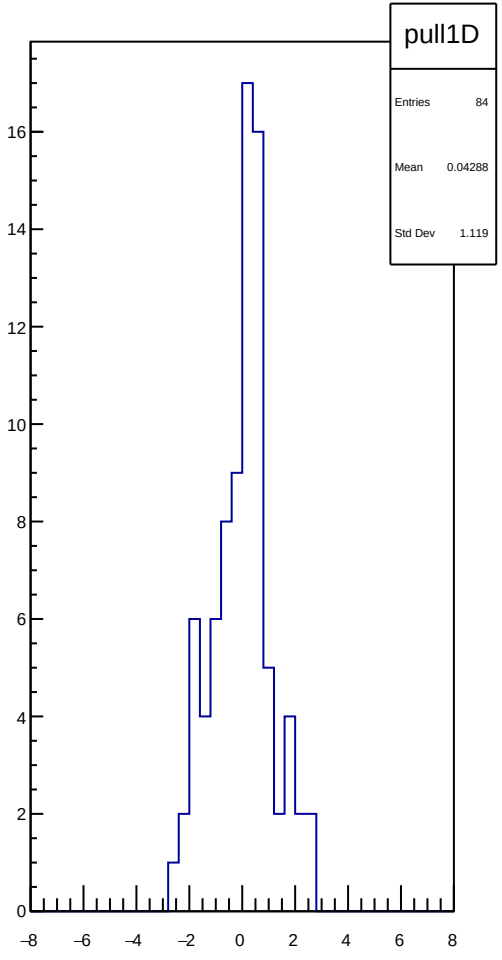

asym_atl_dd_dit_correction_rms vs run
χ^2 / ndf 5.575e+04 / 83
p0 6717 ± 5.281
9000
8000
7000
6000
5000
4000

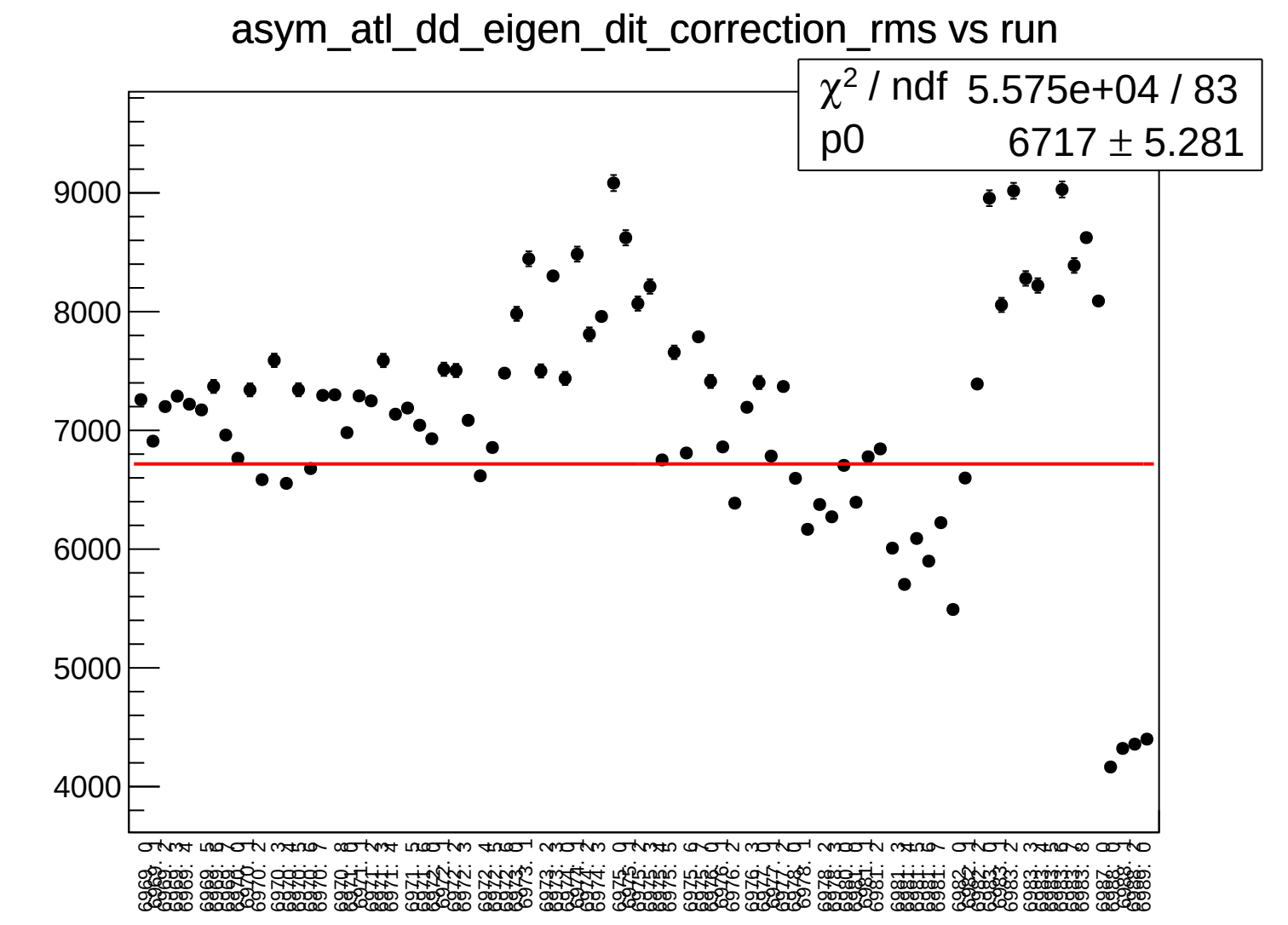

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 88.37 / 83
p0 2635 ± 1984
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −420.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

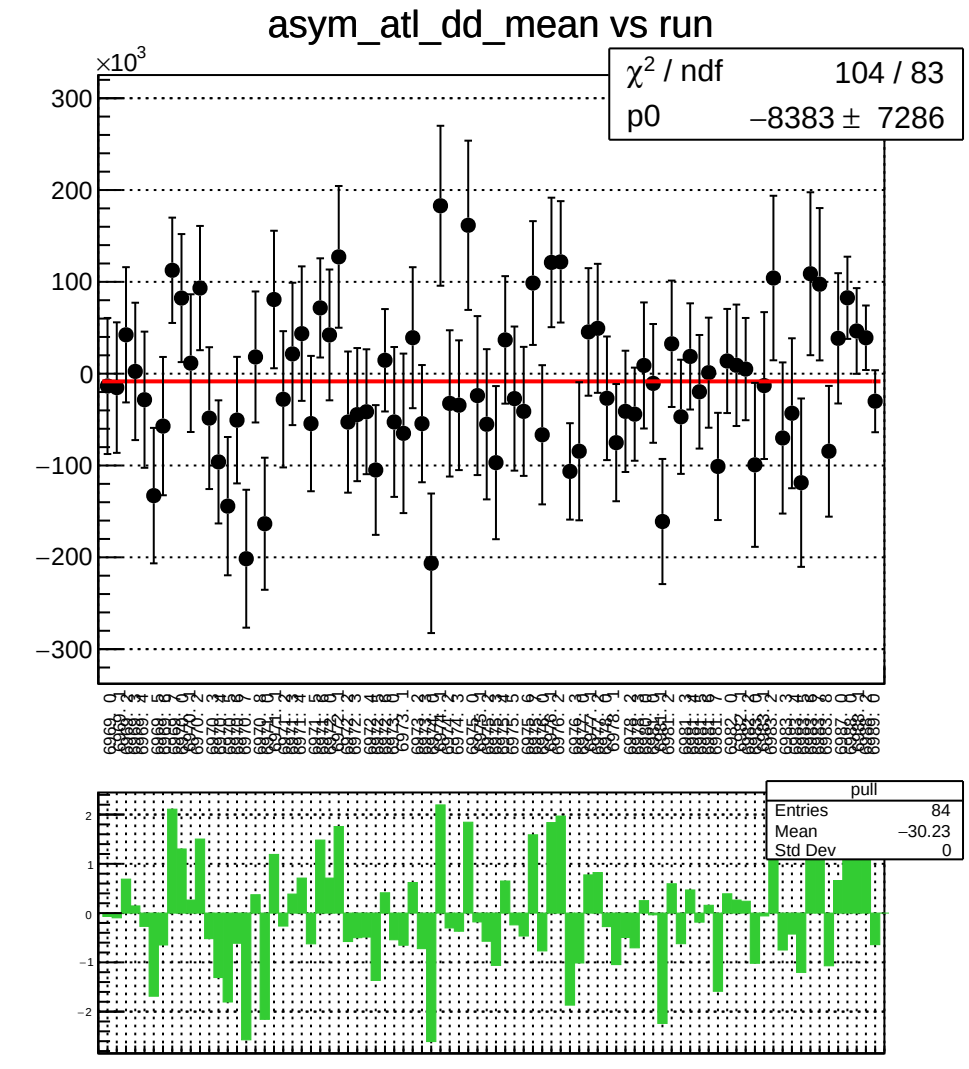

pull1D
Entries 84
Mean 0.01149
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

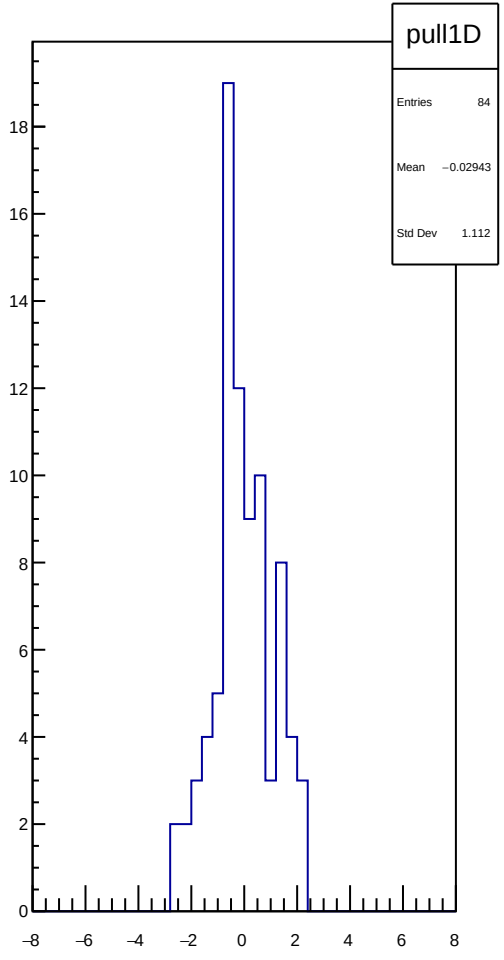

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 864.7 / 83
p0 1814 ± 1.403
2050
2000
1950
1900
1850
1800
1750

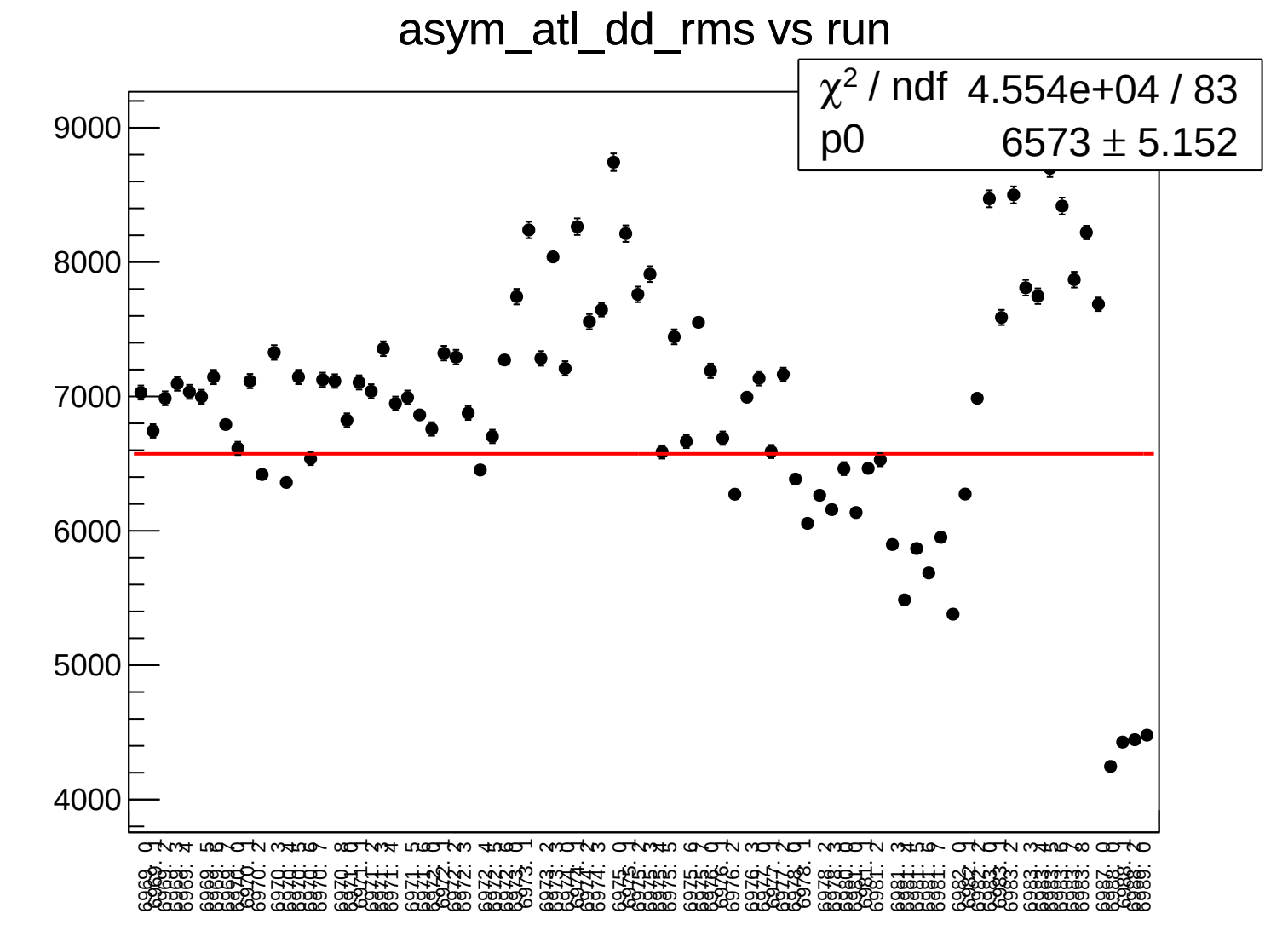

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 105.3 / 83
p0 1.002e+04 ± 7469
pull
Entries 84
Mean −41.9
Std Dev 0

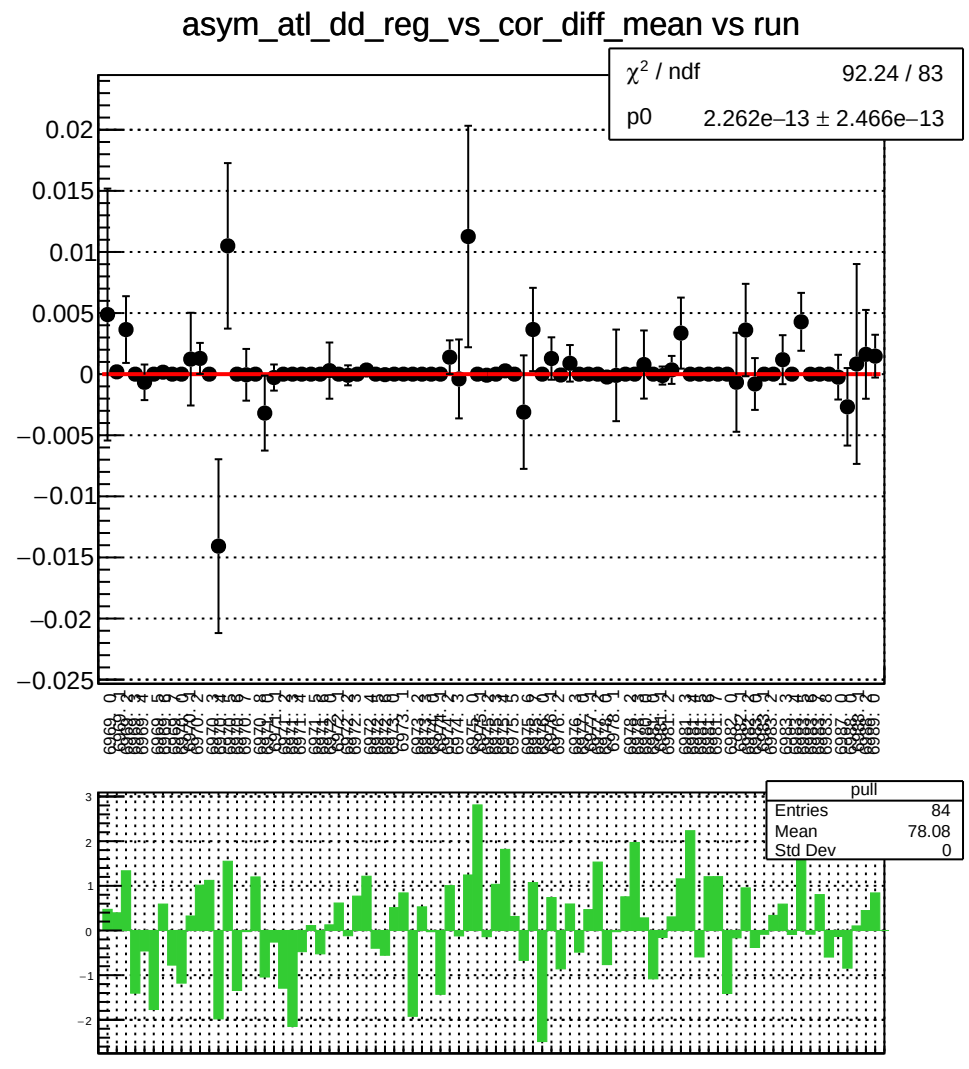

pull1D
Entries 84
Mean 0.04288
Std Dev 1.119

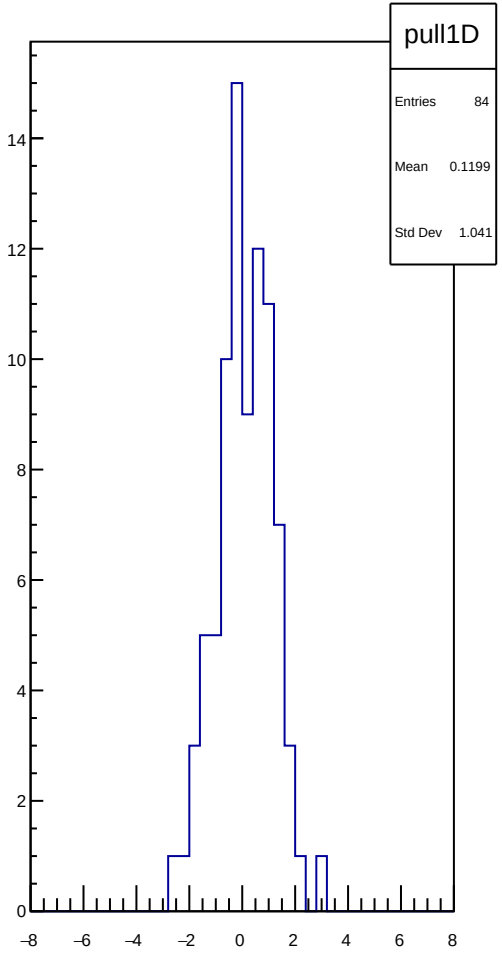

asym_atl_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5.575e+04 / 83
p0 6717 ± 5.281
9000
8000
7000
6000
5000
4000

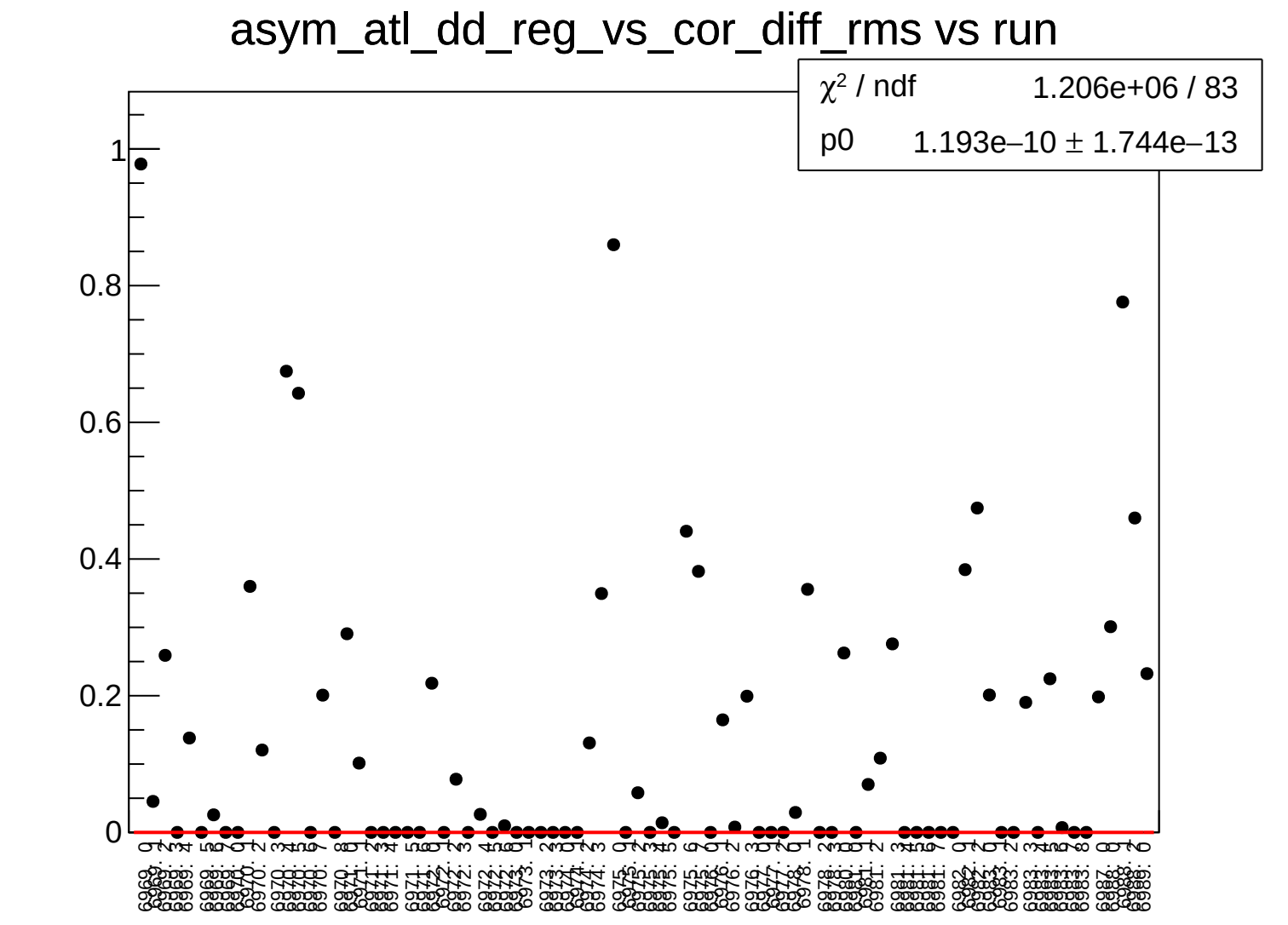

asym_atl_dd_mean vs run
×10^3
χ² / ndf 104 / 83
p0 −8383 ± 7286
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −30.23
Std Dev 0
2
1
0
−1
−2

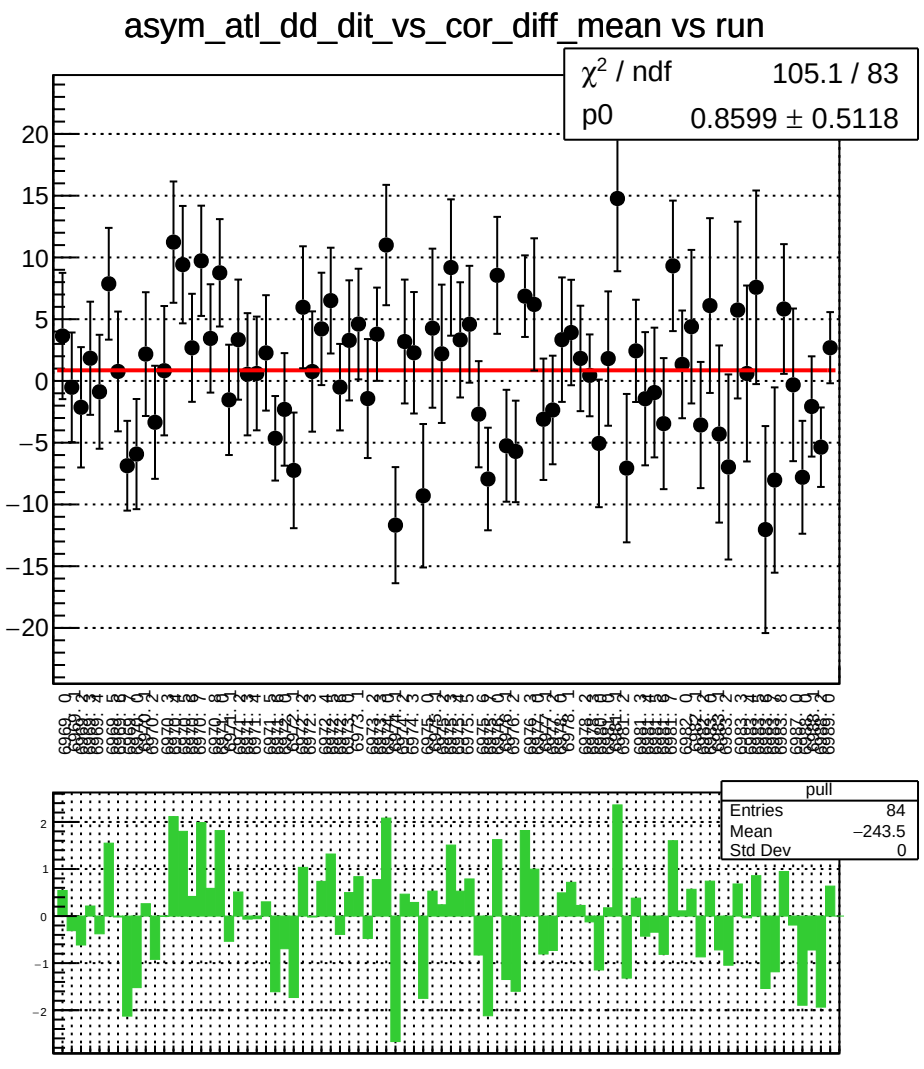

pull1D
Entries 84
Mean −0.02943
Std Dev 1.112
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

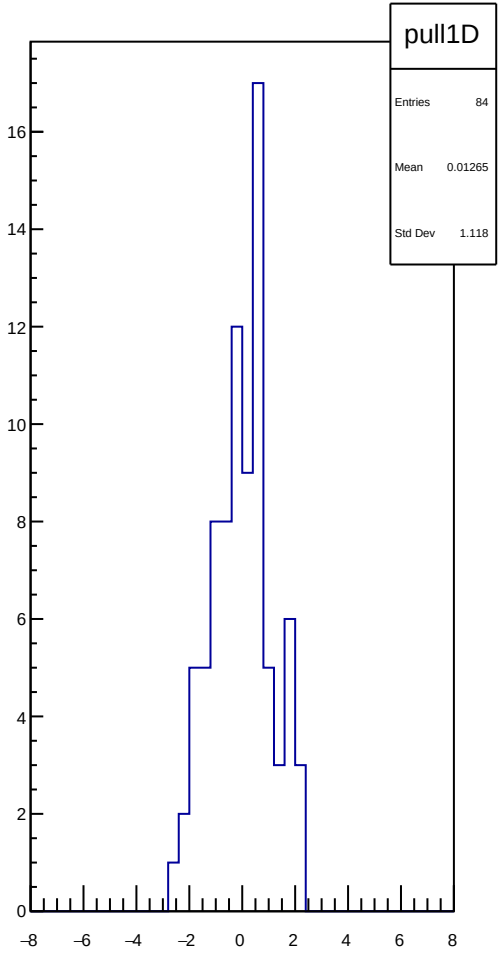

asym_atl_dd_rms vs run
χ^2 / ndf 4.554e+04 / 83
p0 6573 ± 5.152
9000
8000
7000
6000
5000
4000

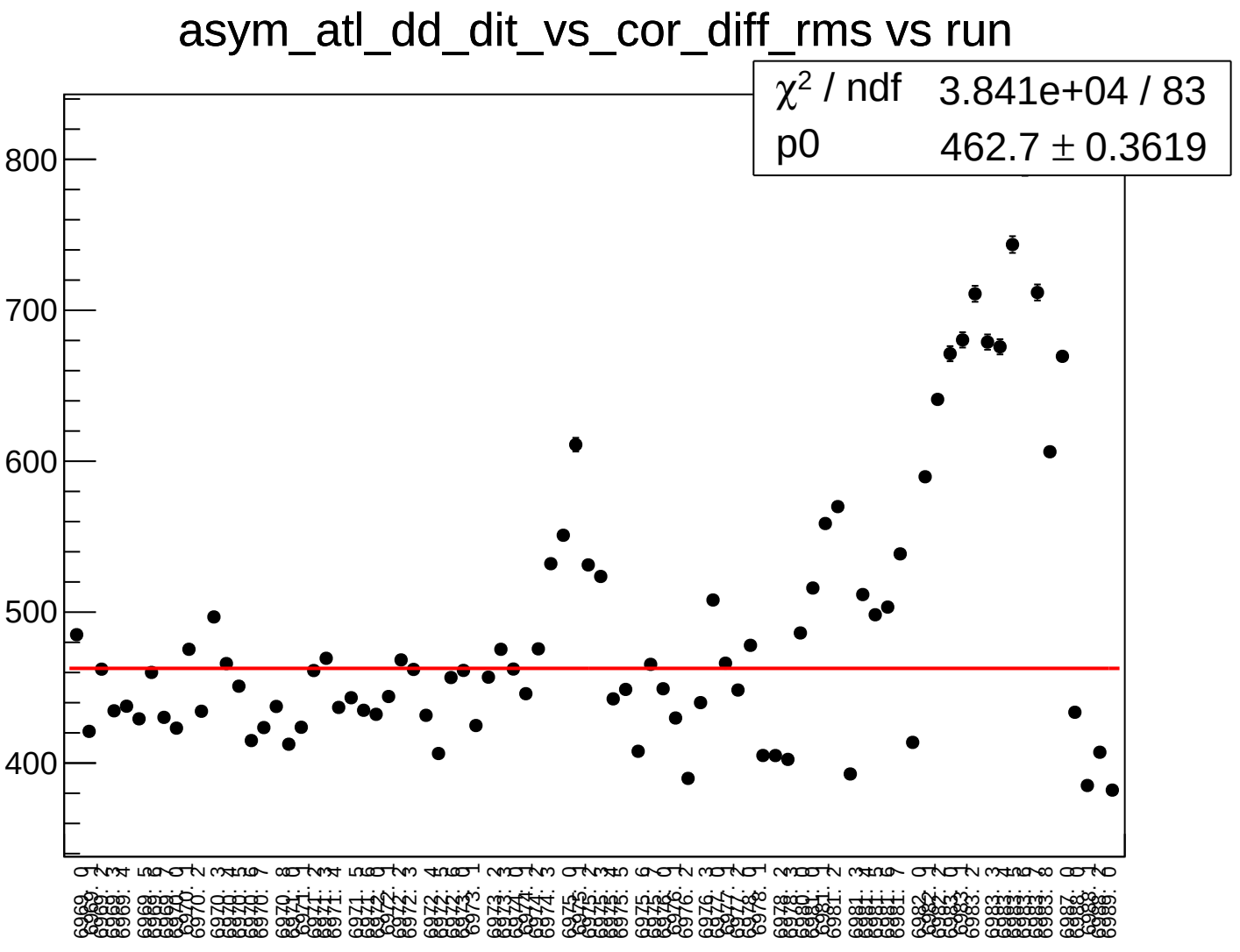

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.24 / 83
p0 2.262e−13 ± 2.466e−13
pull
Entries 84
Mean 78.08
Std Dev 0

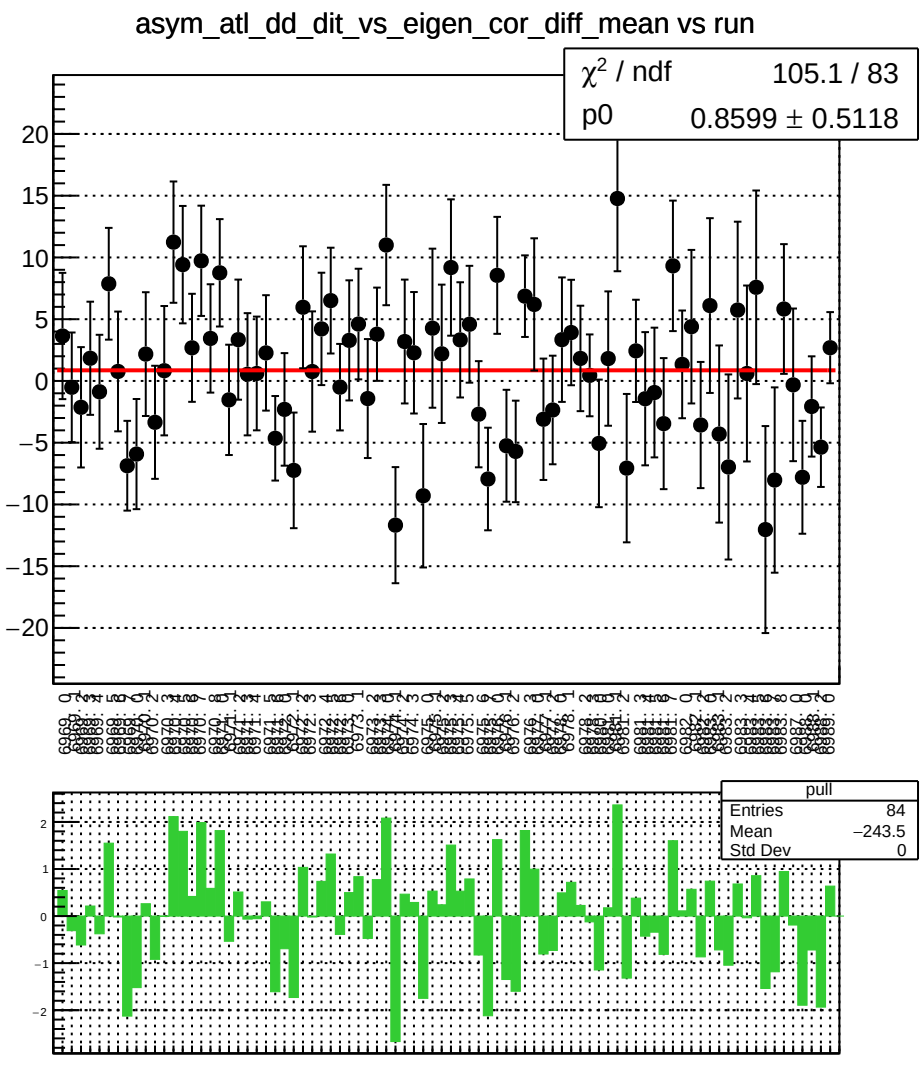

pull1D
Entries 84
Mean 0.1199
Std Dev 1.041

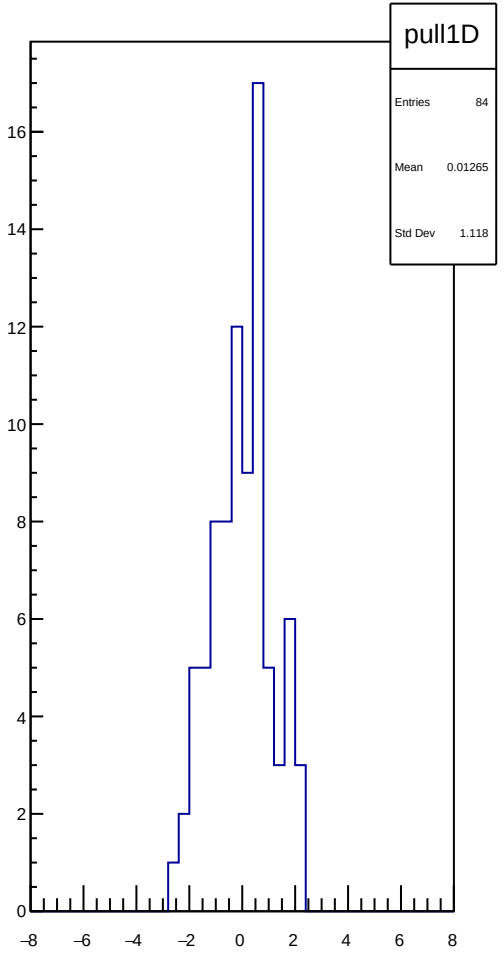

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.206e+06 / 83
p0 1.193e−10 ± 1.744e−13
1
0.8
0.6
0.4
0.2
0

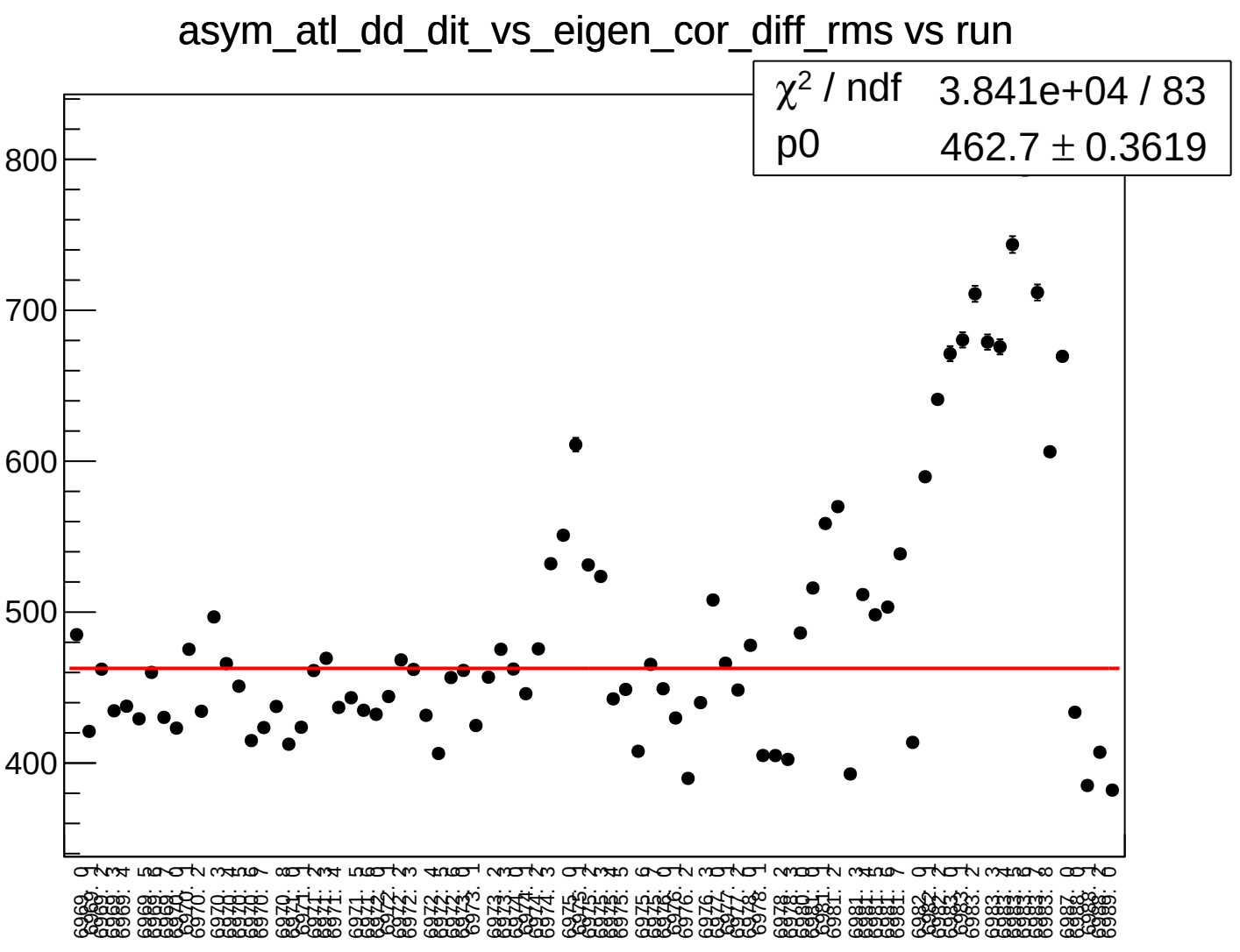

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 83
p0 0.8599 ± 0.5118
pull
Entries 84
Mean −243.5
Std Dev 0

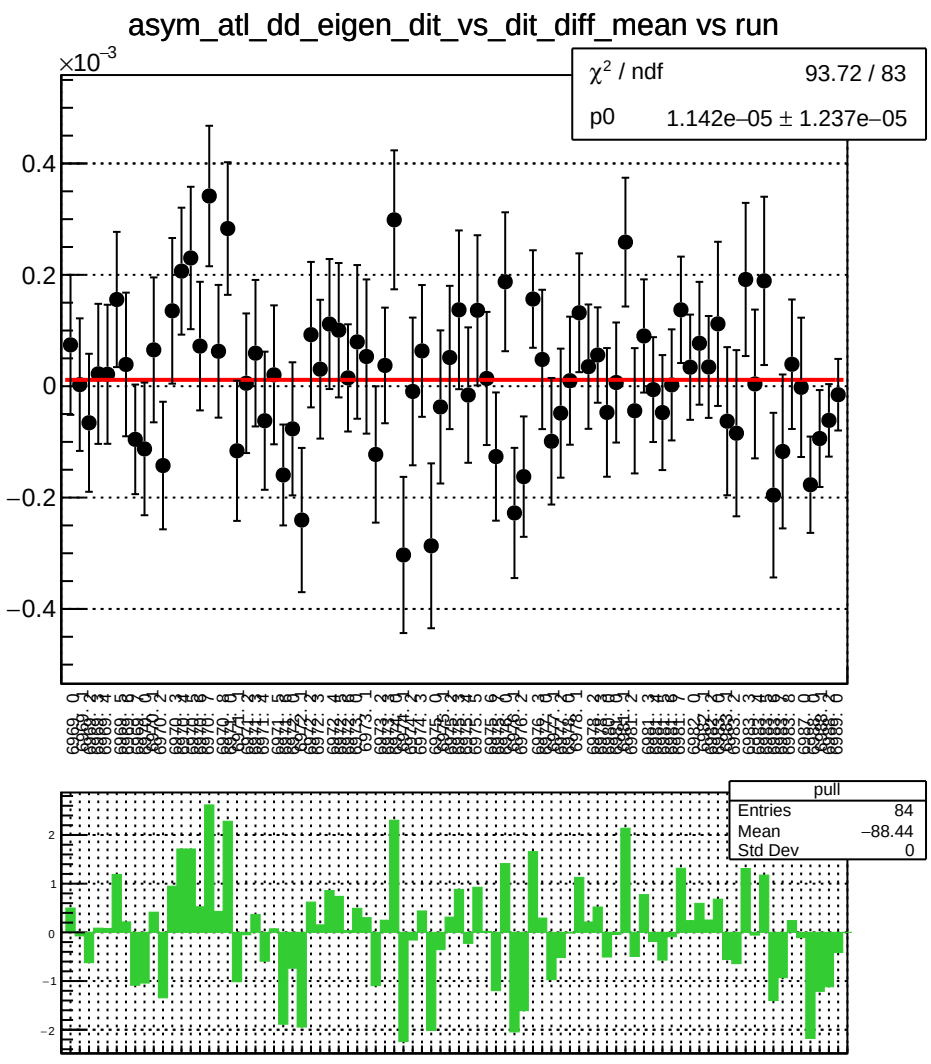

pull1D
Entries 84
Mean 0.01265
Std Dev 1.118

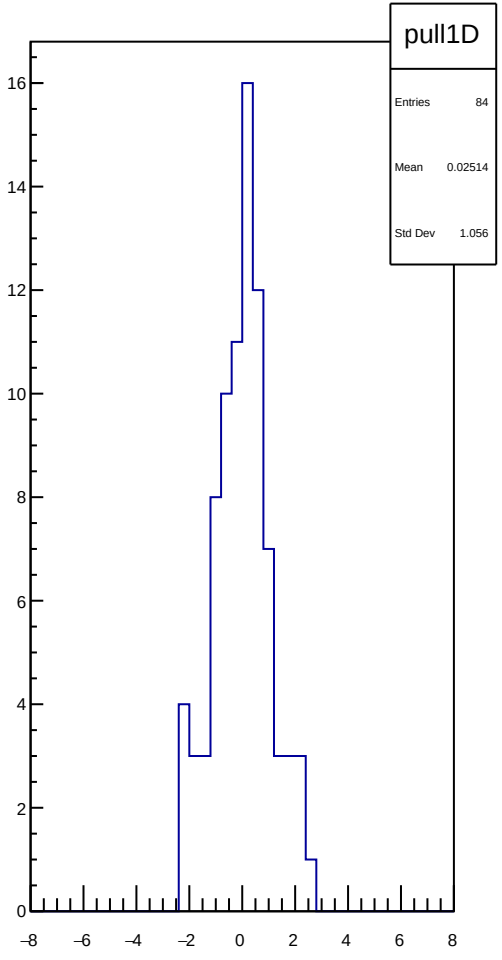

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.841e+04 / 83
p0 462.7 ± 0.3619
800
700
600
500
400

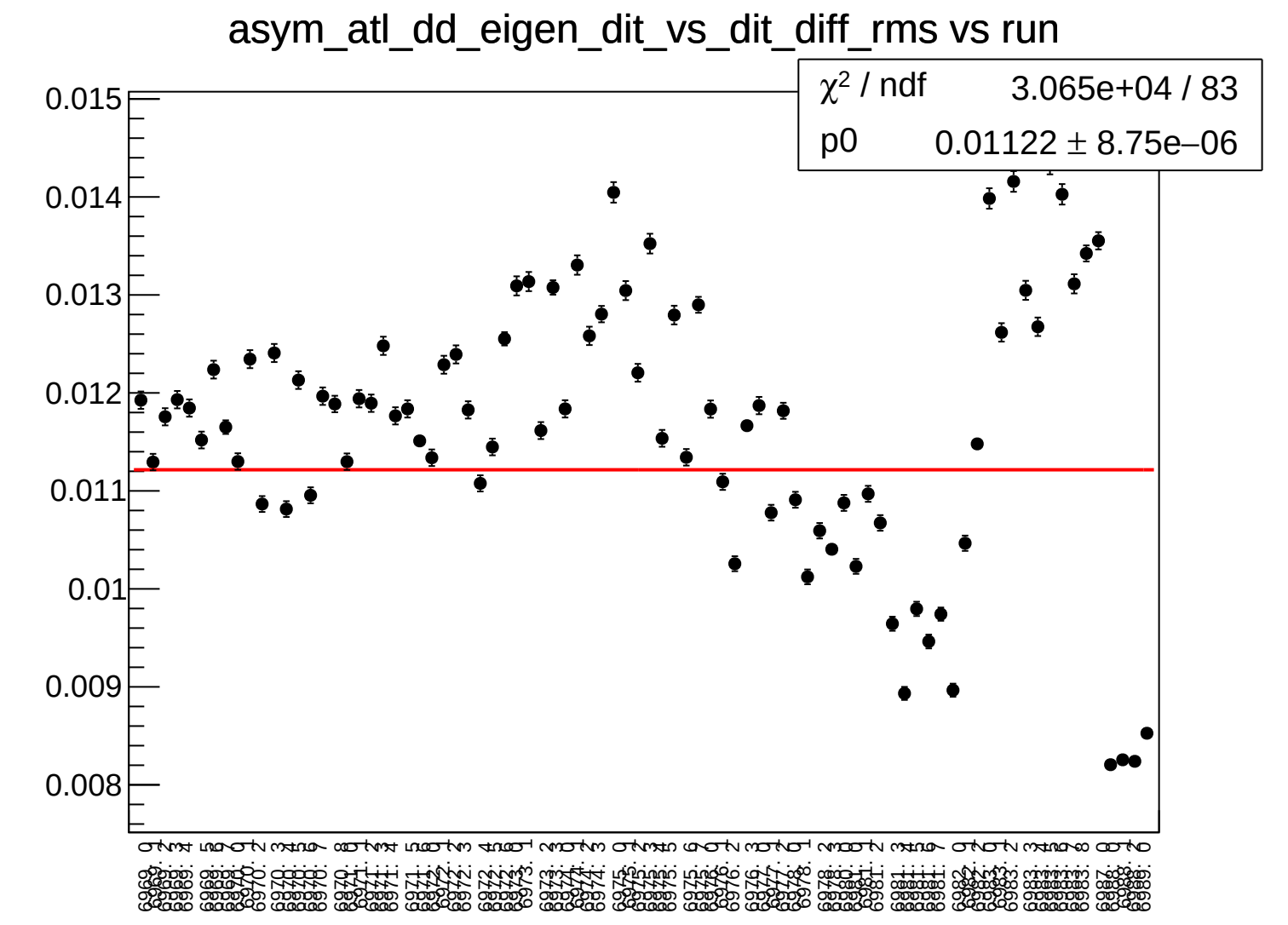

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 83
p0 0.8599 ± 0.5118
pull
Entries 84
Mean −243.5
Std Dev 0

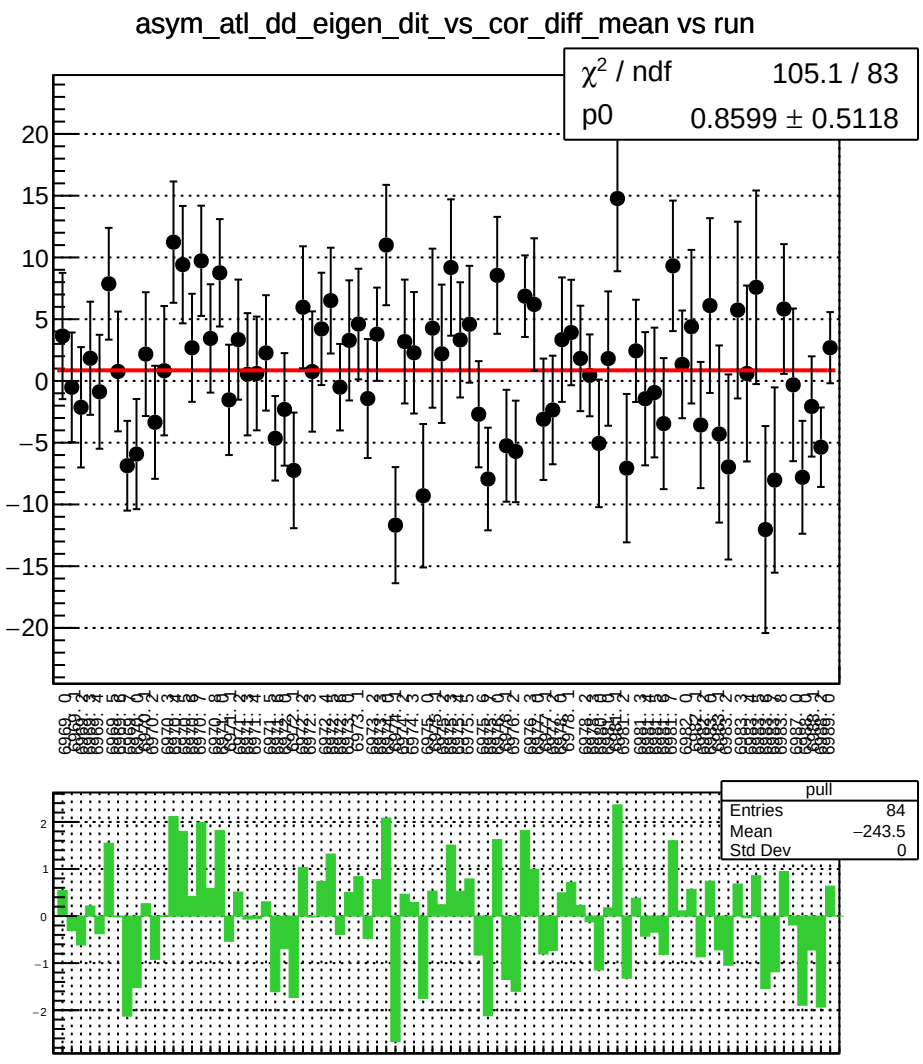

pull1D
Entries 84
Mean 0.01265
Std Dev 1.118

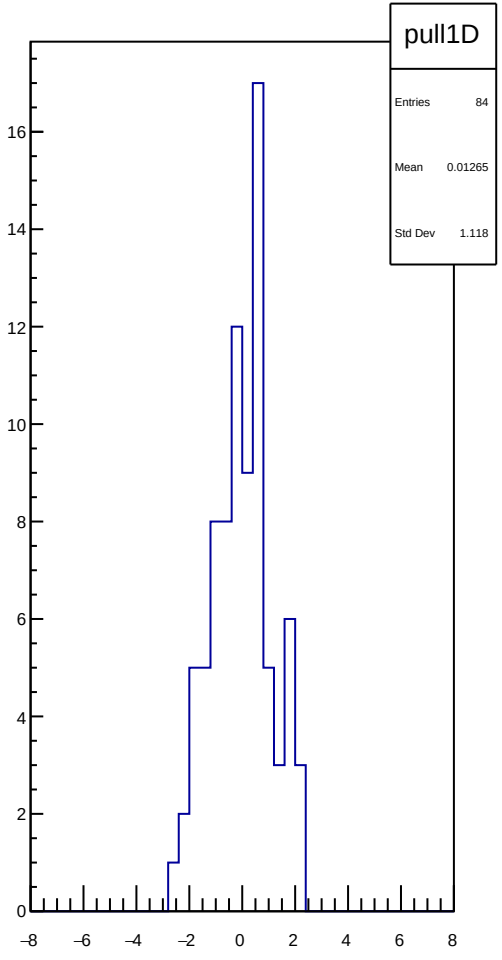

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.841e+04 / 83
p0 462.7 ± 0.3619
800
700
600
500
400

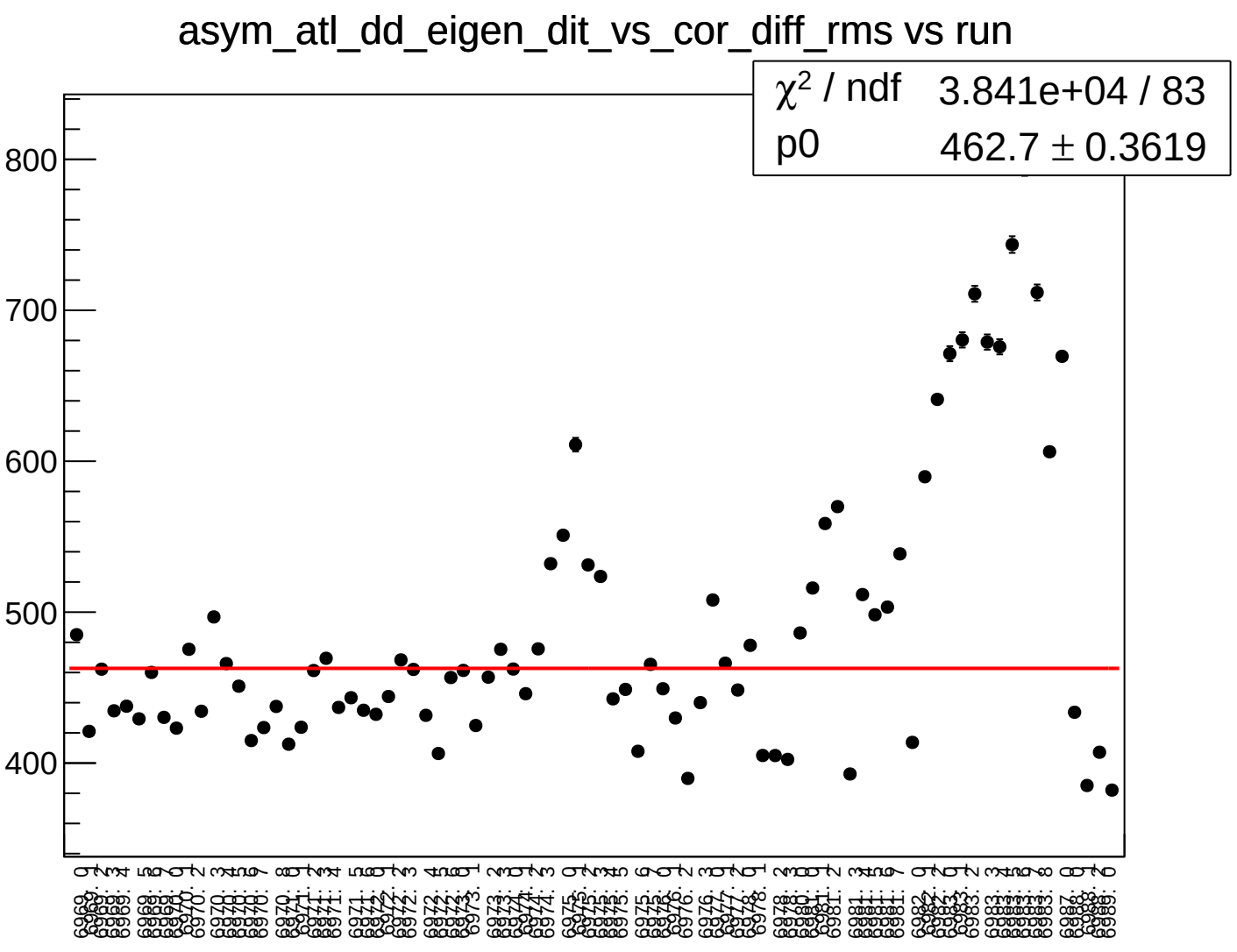

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.72 / 83
p0 1.142e−05 ± 1.237e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 84
Mean −88.44
Std Dev 0
2
1
0
−1
−2

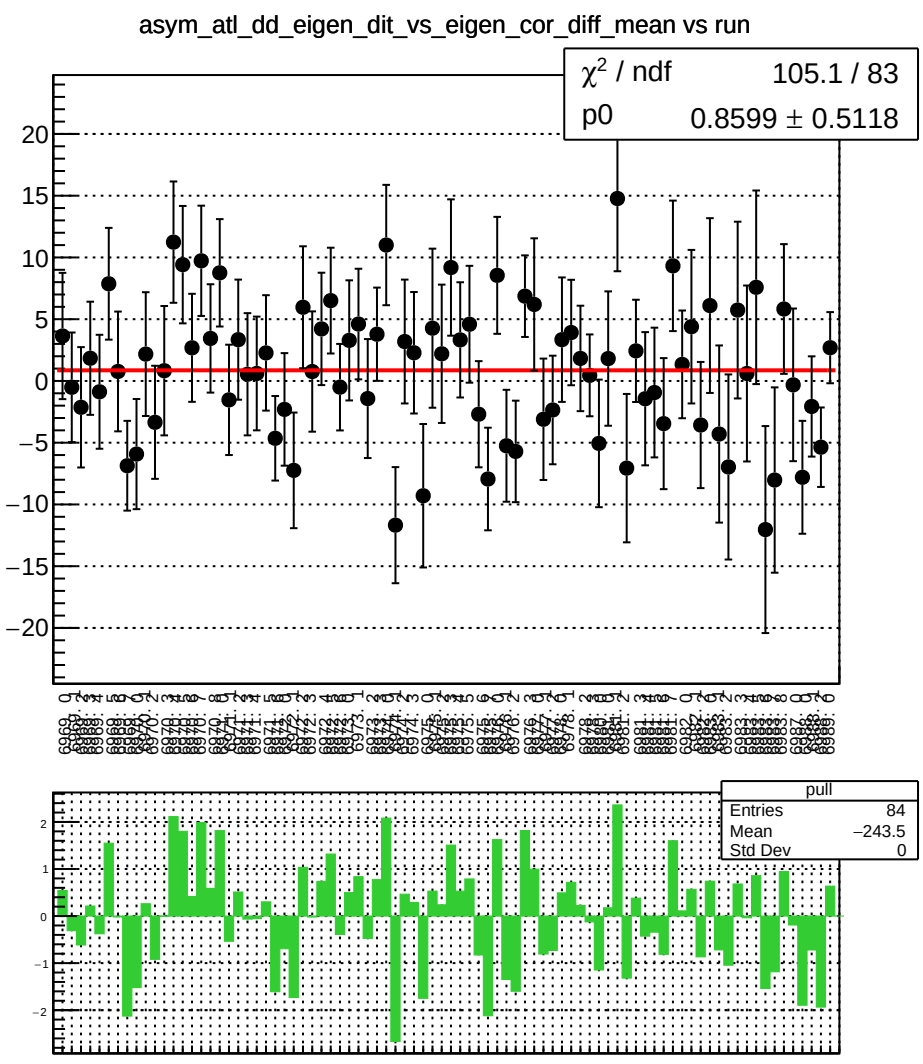

pull1D
Entries 84
Mean 0.02514
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

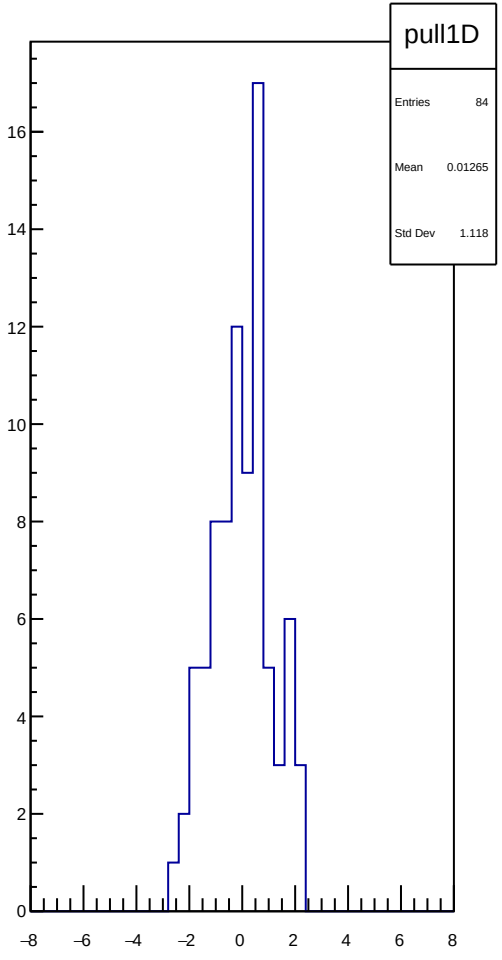

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.065e+04 / 83
p0 0.01122 ± 8.75e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

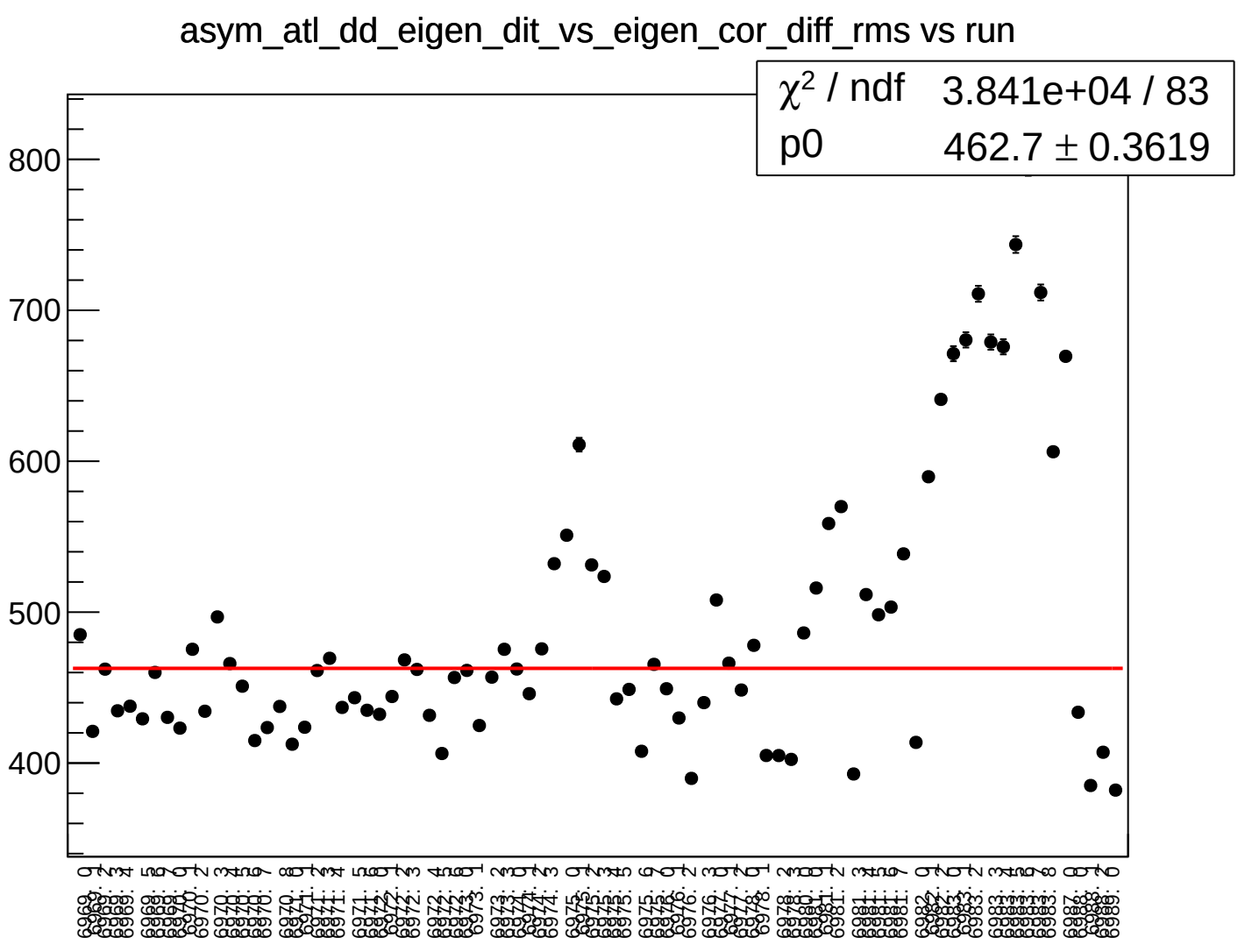

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 83
p0 0.8599 ± 0.5118
pull
Entries 84
Mean −243.5
Std Dev 0

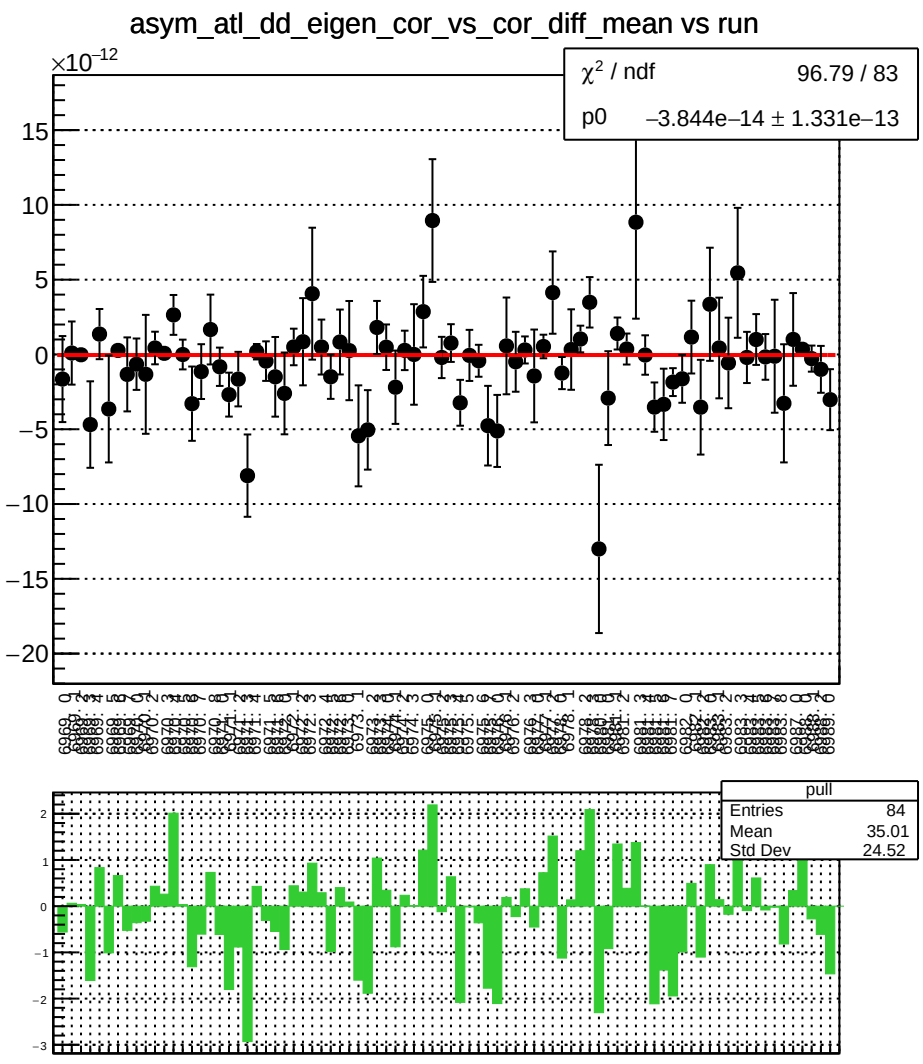

pull1D
Entries 84
Mean 0.01265
Std Dev 1.118

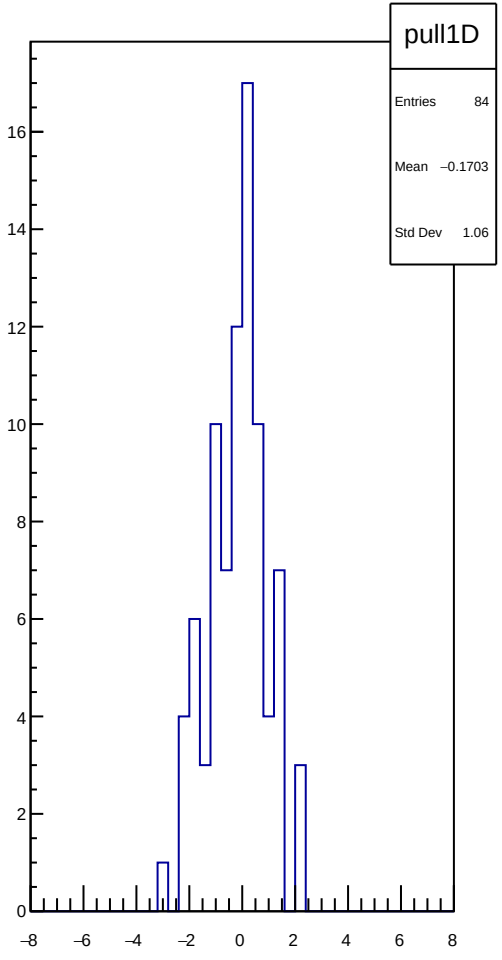

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.841e+04 / 83
p0 462.7 ± 0.3619
800
700
600
500
400

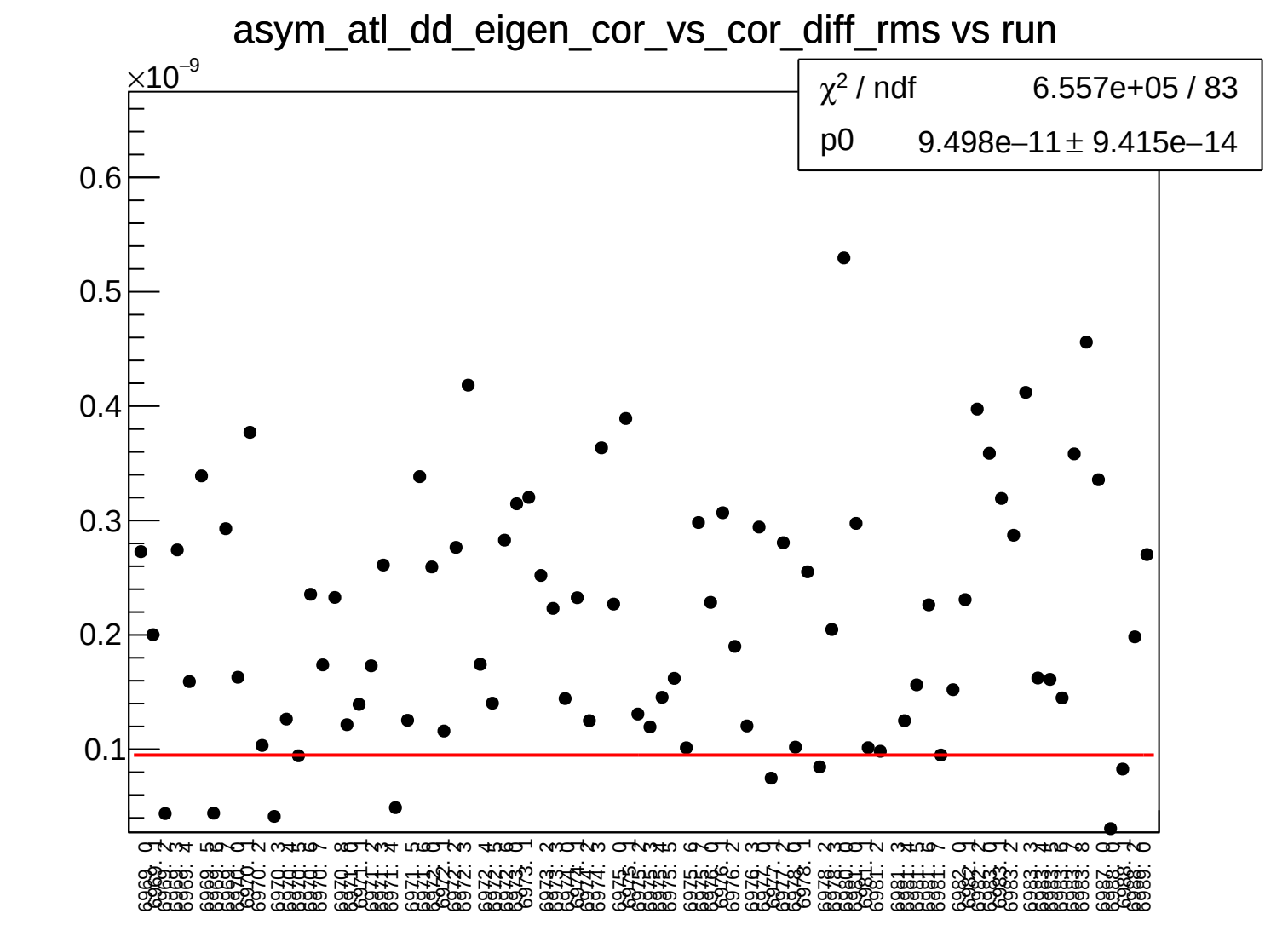

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 83
p0 0.8599 ± 0.5118
pull
Entries 84
Mean −243.5
Std Dev 0

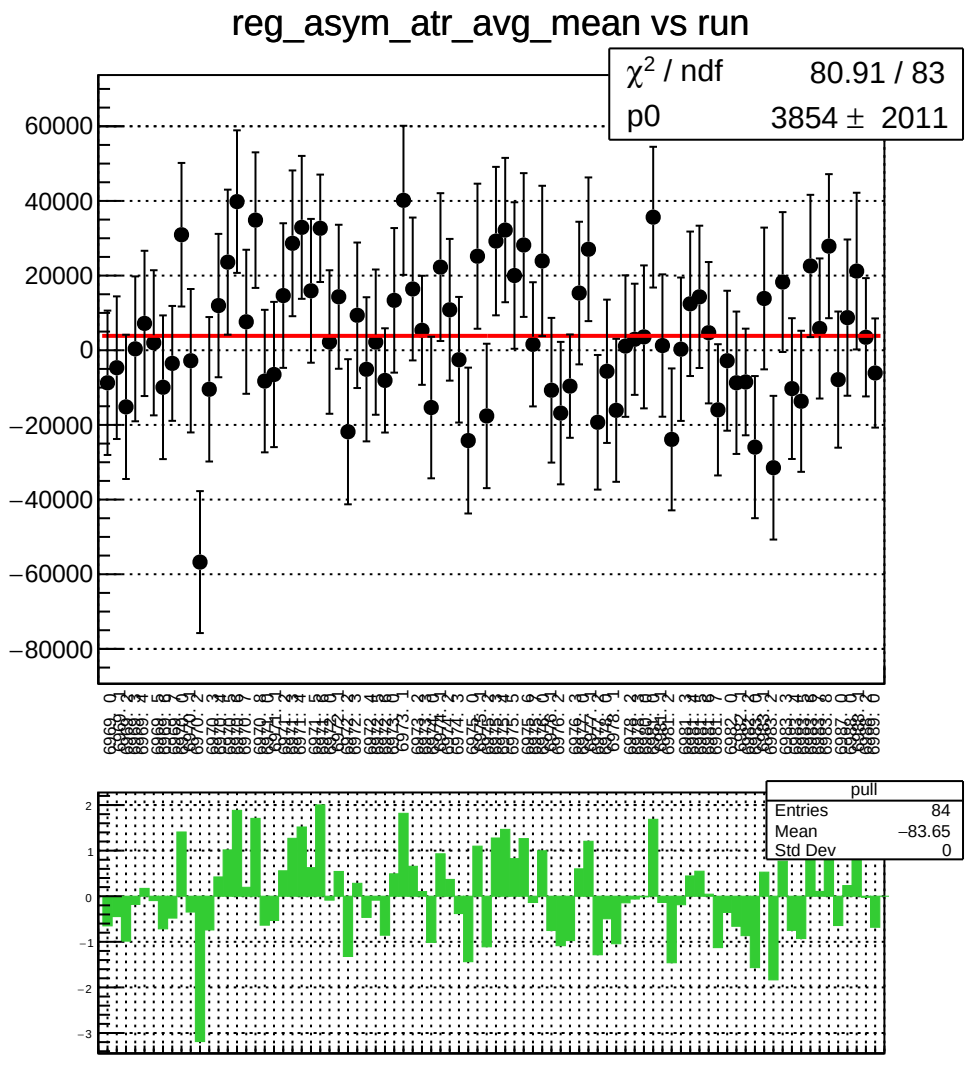

pull1D
Entries 84
Mean 0.01265
Std Dev 1.118

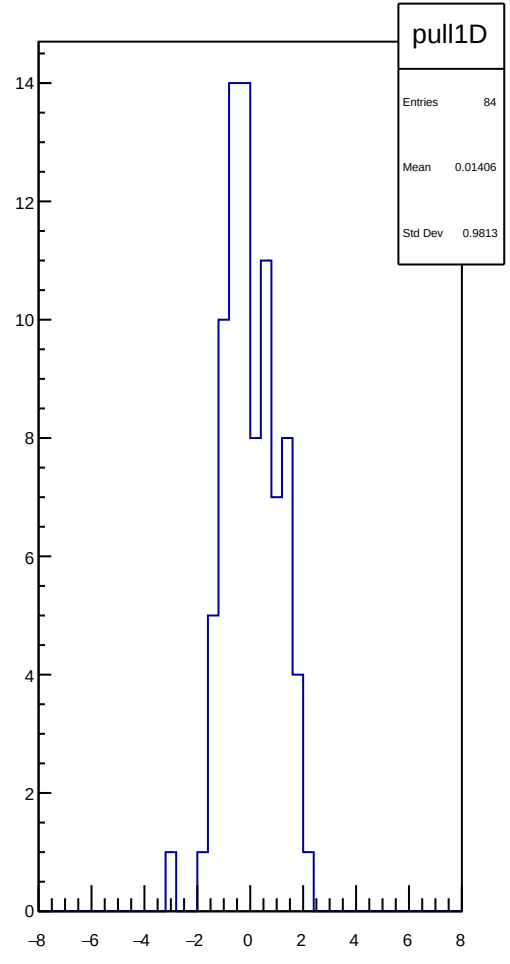

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.841e+04 / 83
p0 462.7 ± 0.3619
800
700
600
500
400

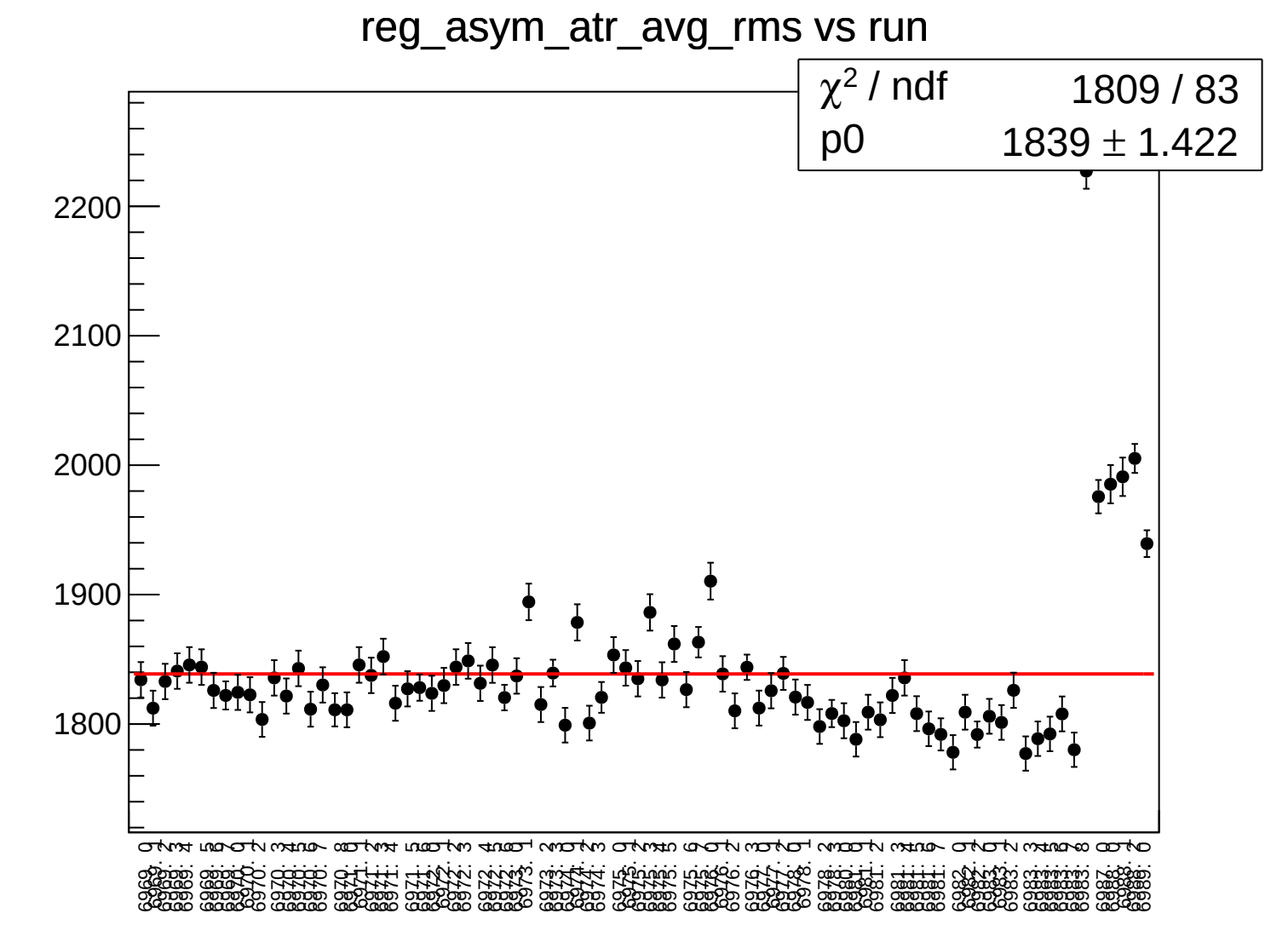

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.79 / 83
p0 −3.844e−14 ± 1.331e−13
pull
Entries 84
Mean 35.01
Std Dev 24.52

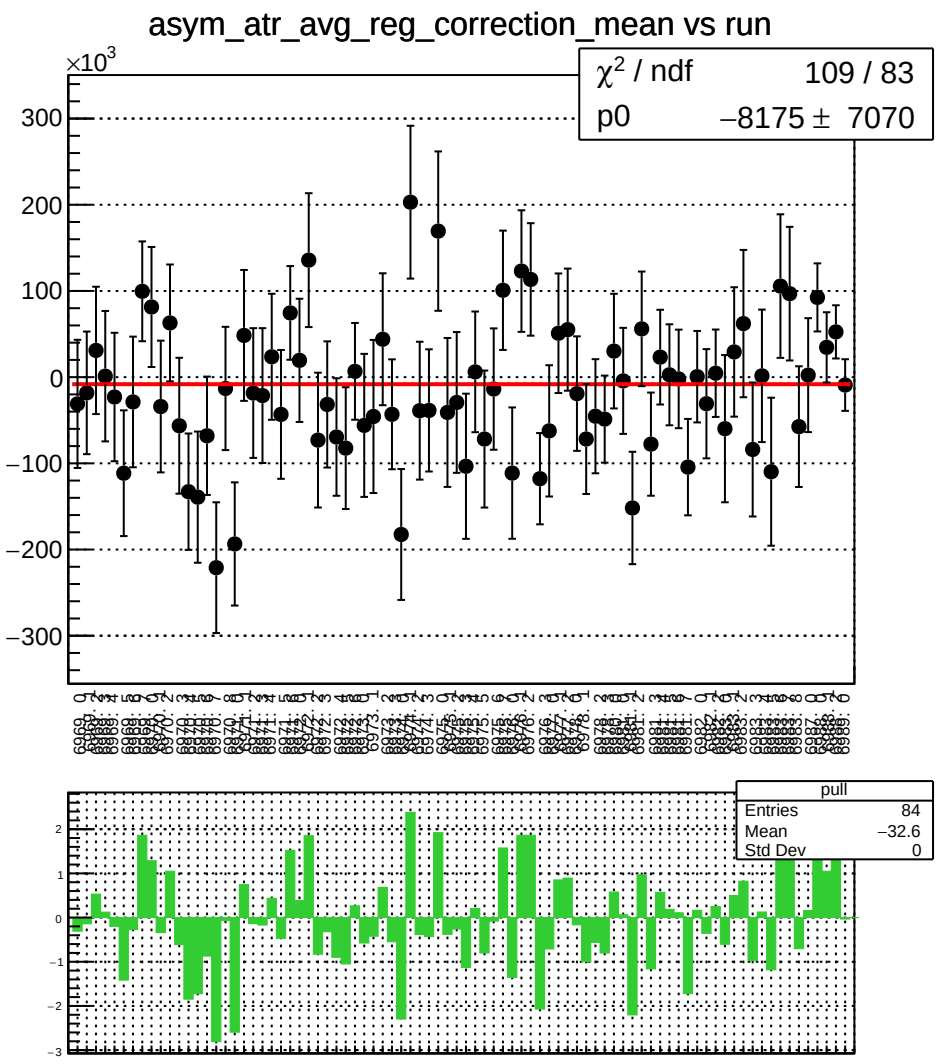

pull1D
Entries 84
Mean −0.1703
Std Dev 1.06

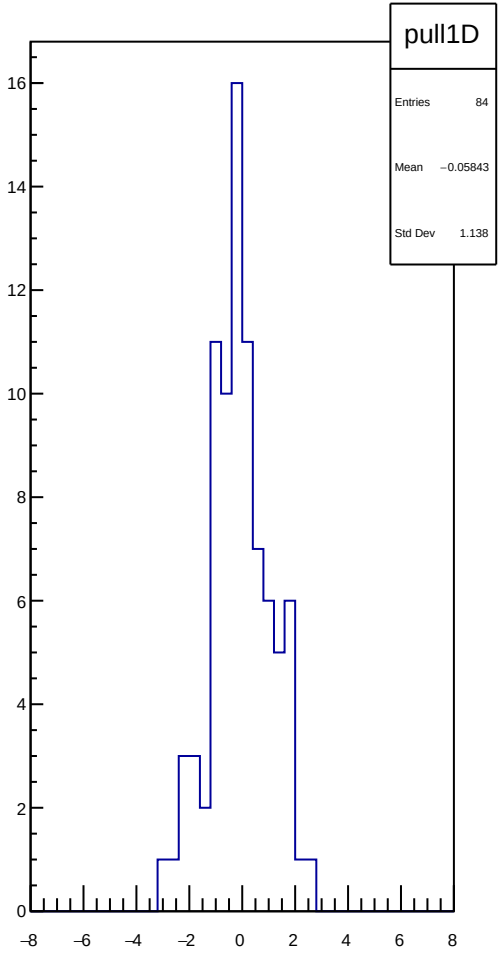

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.557e+05 / 83
p0 9.498e−11 ± 9.415e−14
0.6
0.5
0.4
0.3
0.2
0.1

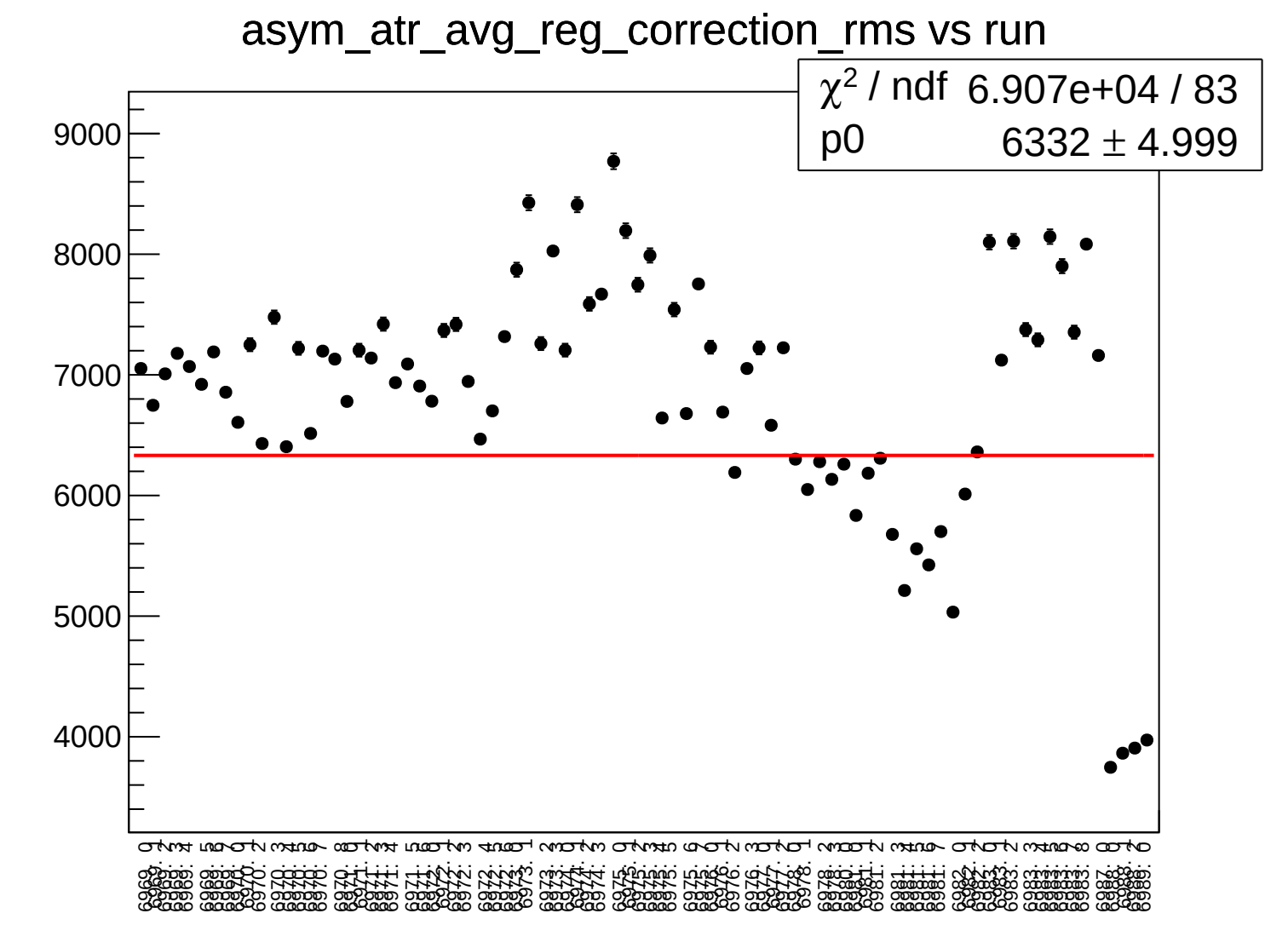

reg_asym_atr_avg_mean vs run
χ² / ndf 80.91 / 83
p0 3854 ± 2011
pull
Entries 84
Mean −83.65
Std Dev 0

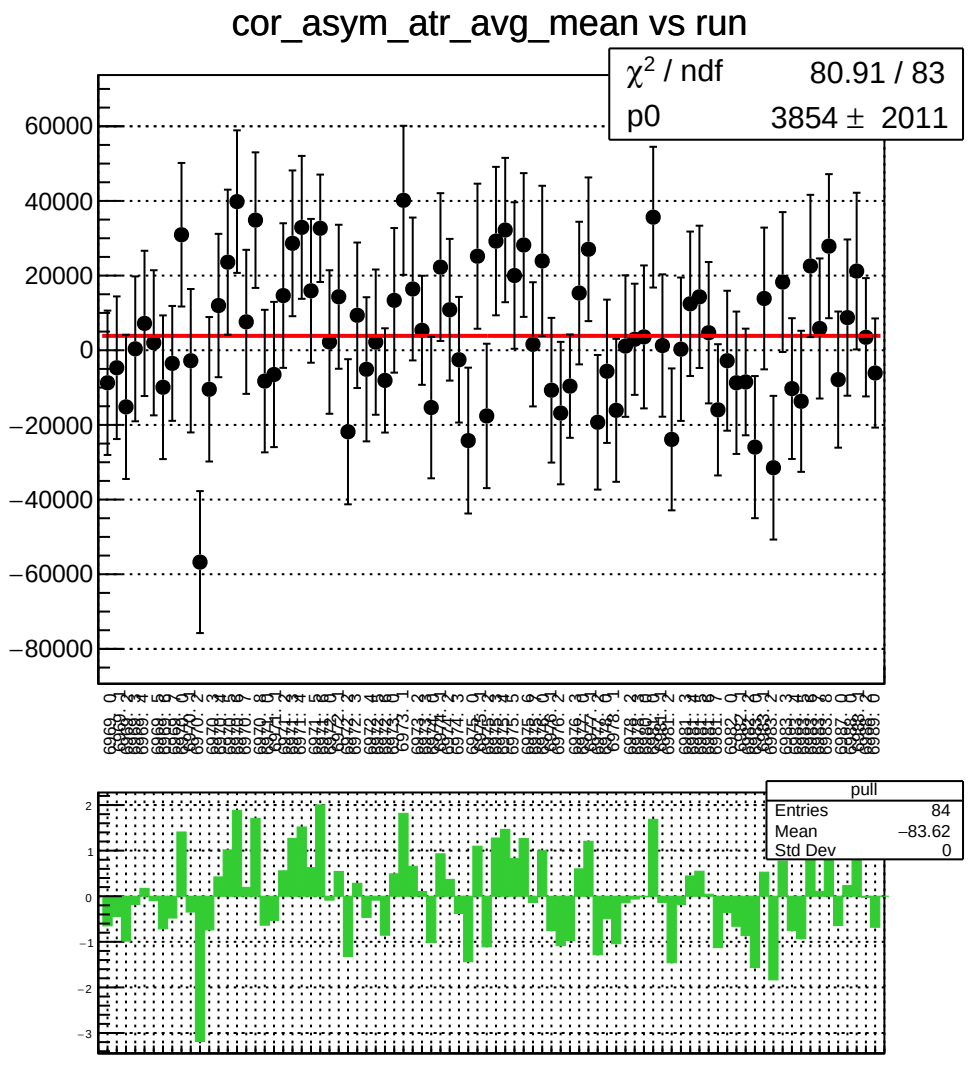

pull1D
Entries 84
Mean 0.01406
Std Dev 0.9813

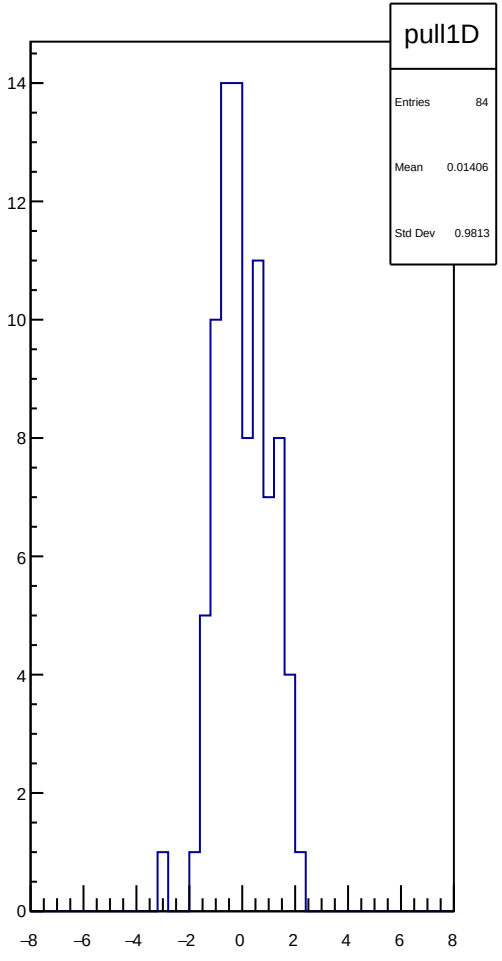

reg_asym_atr_avg_rms vs run
χ² / ndf 1809 / 83
p0 1839 ± 1.422
2200
2100
2000
1900
1800

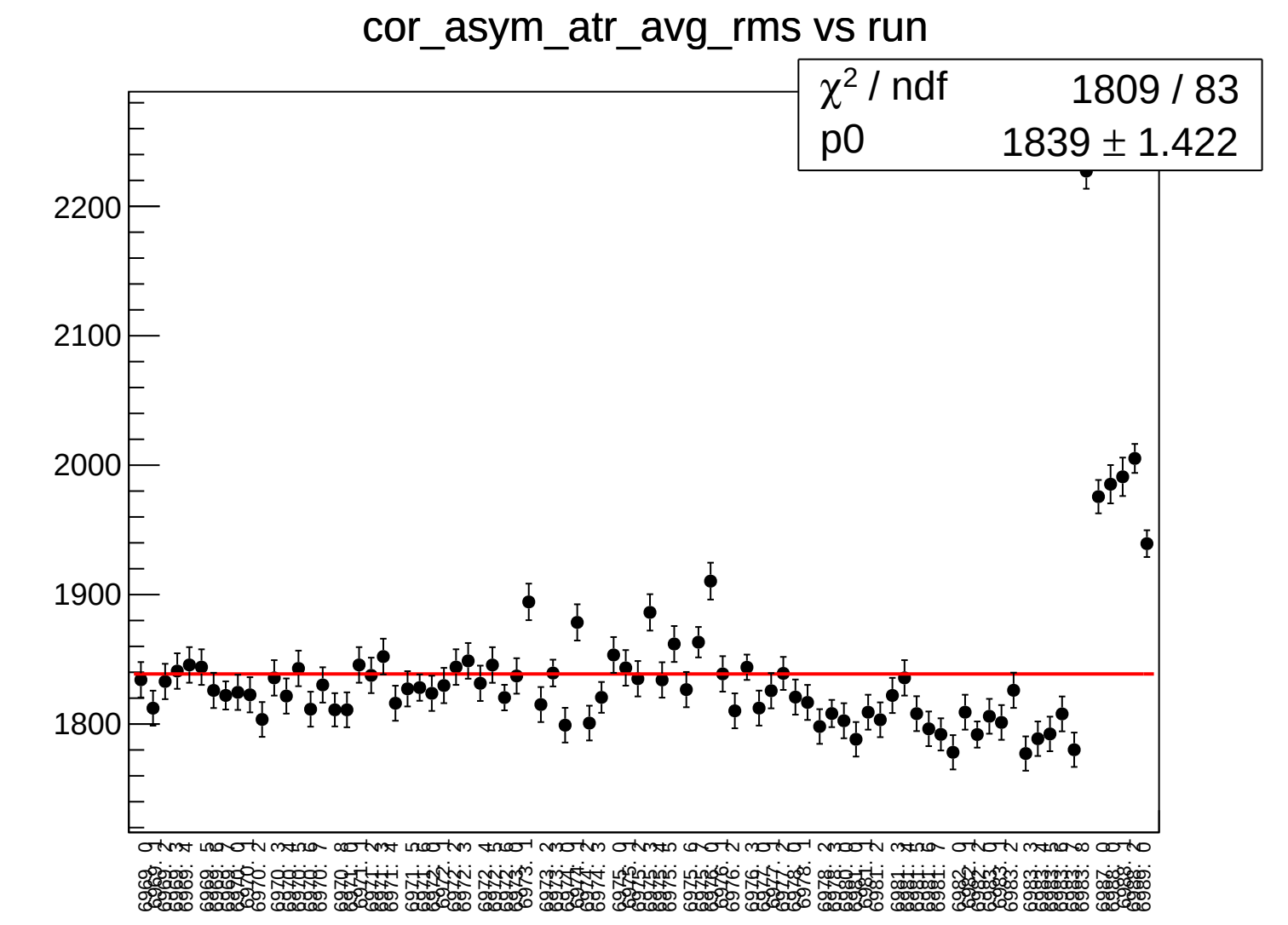

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 109 / 83
p0 −8175 ± 7070
pull
Entries 84
Mean −32.6
Std Dev 0

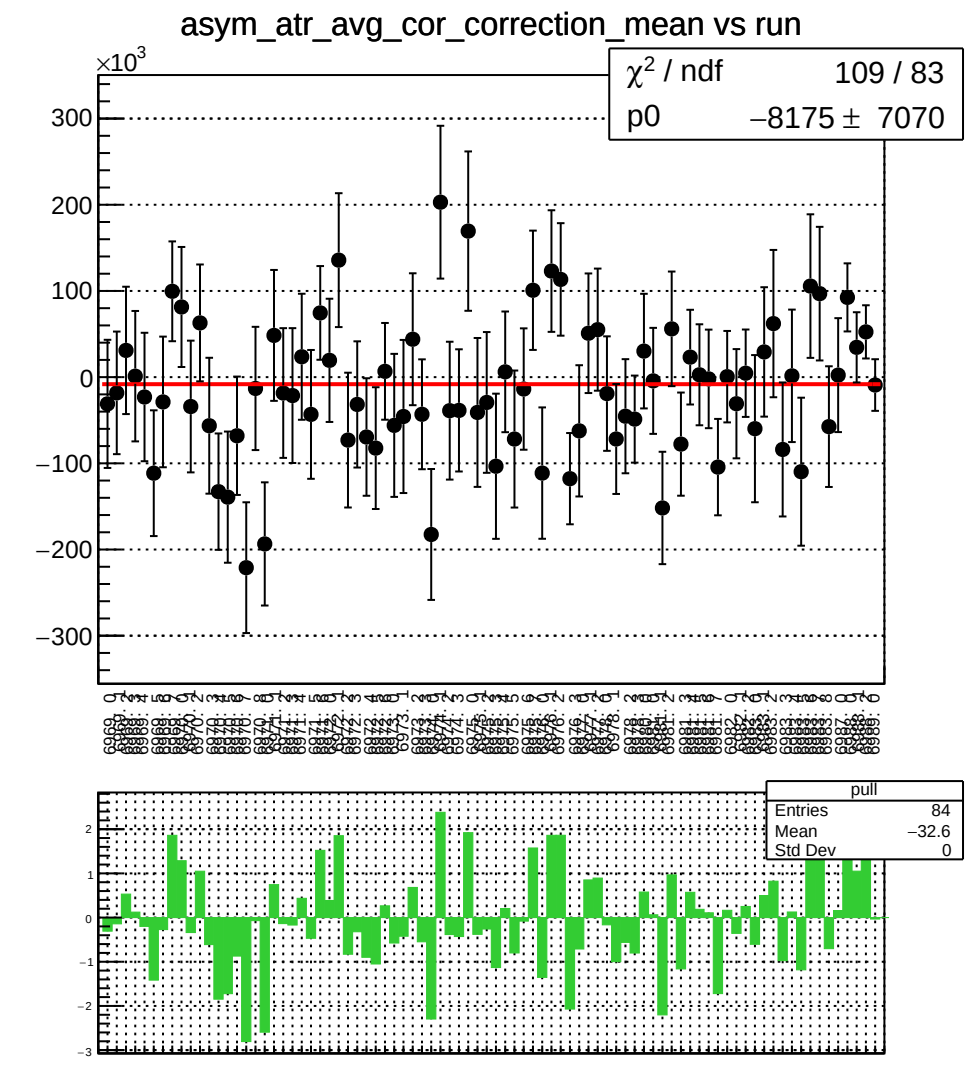

pull1D
Entries 84
Mean −0.05843
Std Dev 1.138

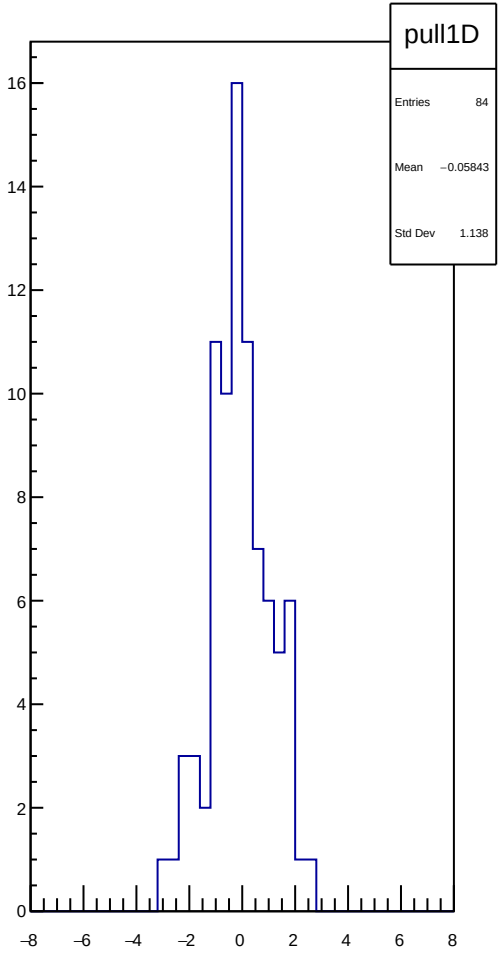

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 6.907e+04 / 83
p0 6332 ± 4.999
9000
8000
7000
6000
5000
4000

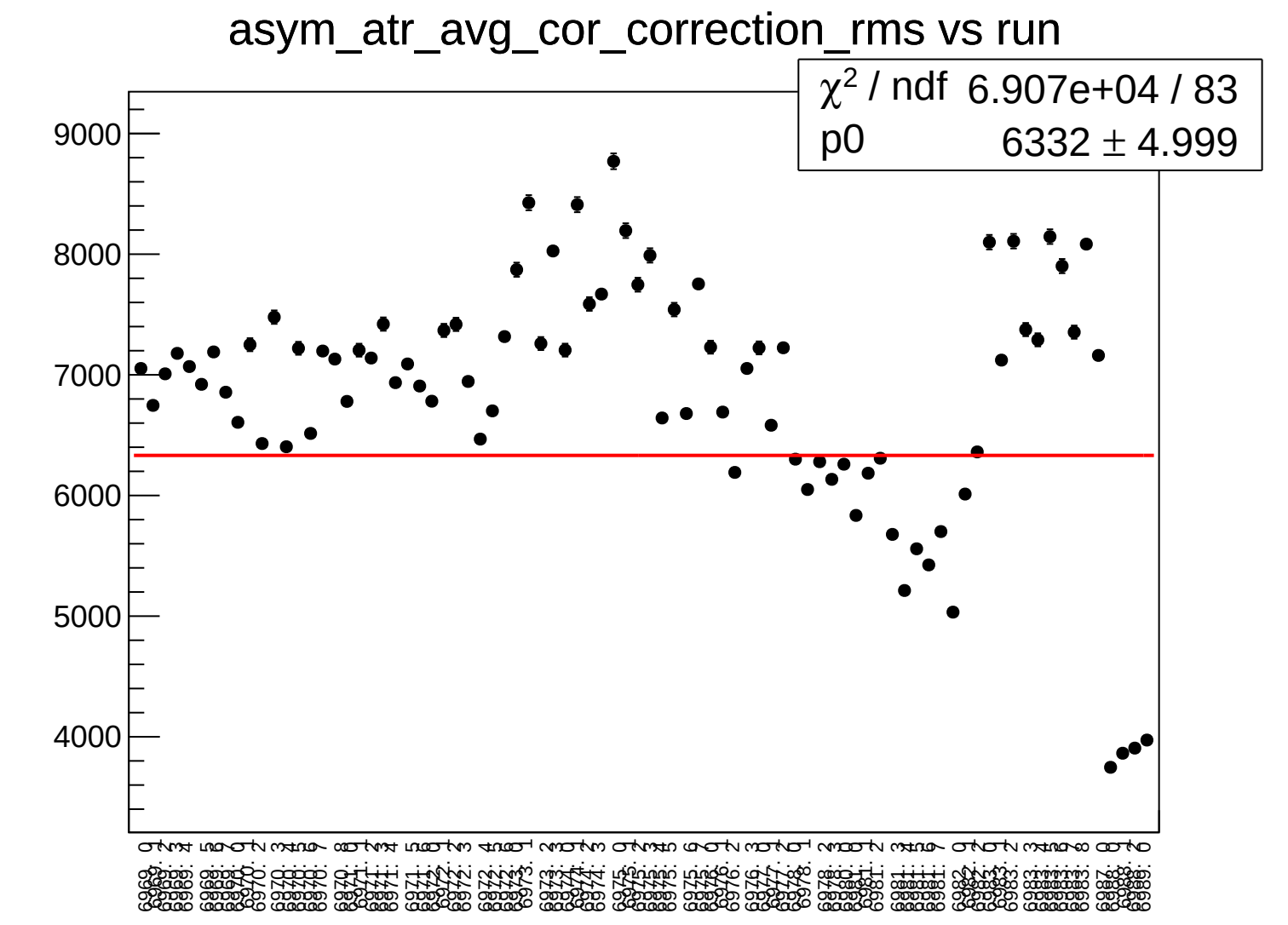

cor_asym_atr_avg_mean vs run
χ² / ndf 80.91 / 83
p0 3854 ± 2011
pull
Entries 84
Mean −83.62
Std Dev 0

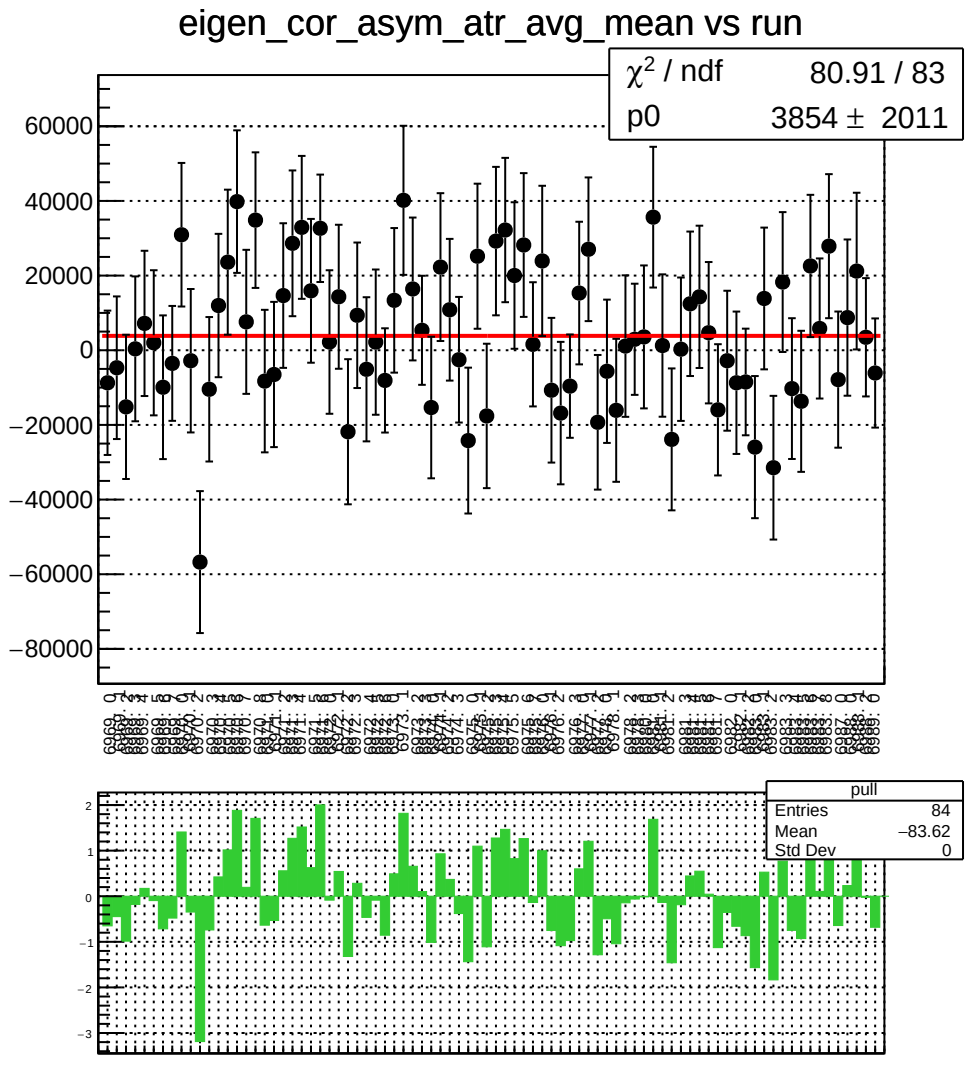

pull1D
Entries 84
Mean 0.01406
Std Dev 0.9813

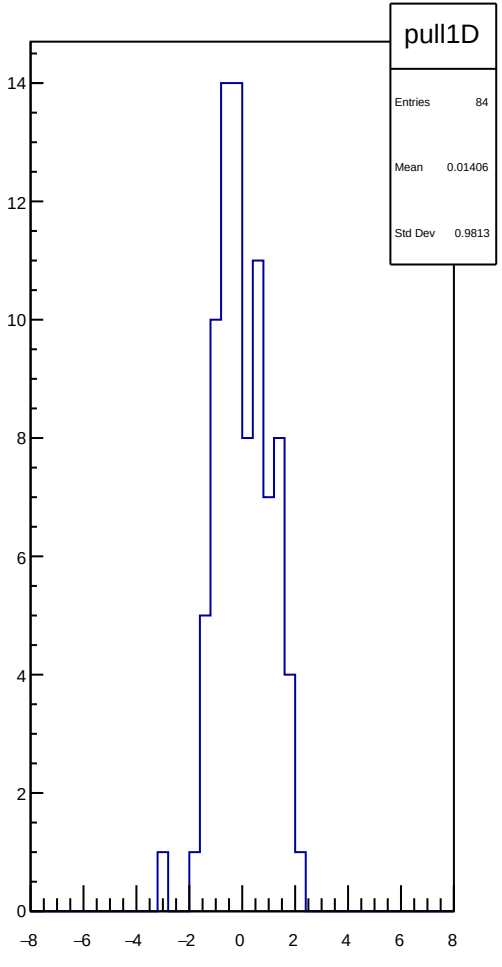

cor_asym_atr_avg_rms vs run
χ² / ndf 1809 / 83
p0 1839 ± 1.422
2200
2100
2000
1900
1800

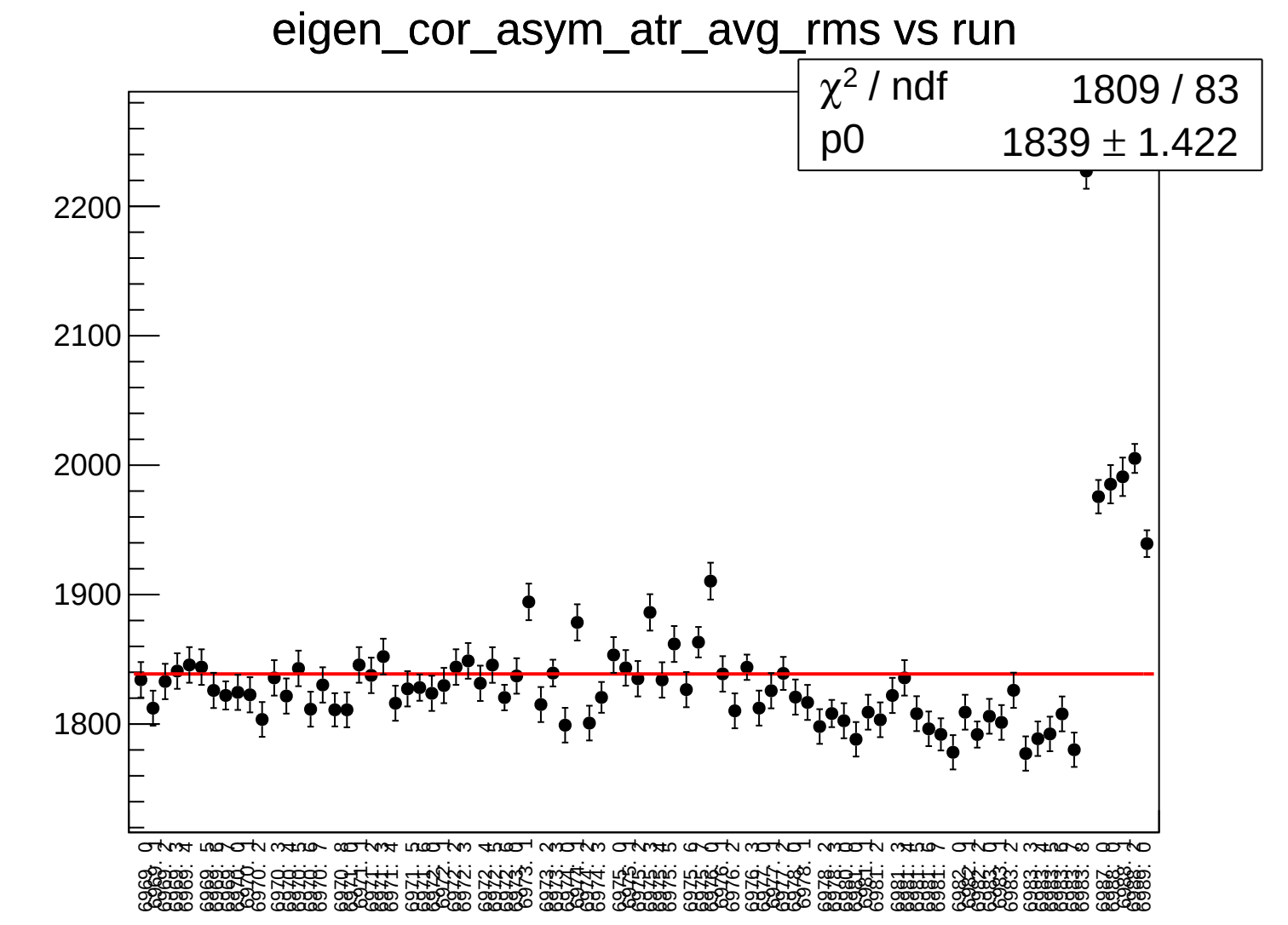

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 109 / 83
p0 −8175 ± 7070
pull
Entries 84
Mean −32.6
Std Dev 0

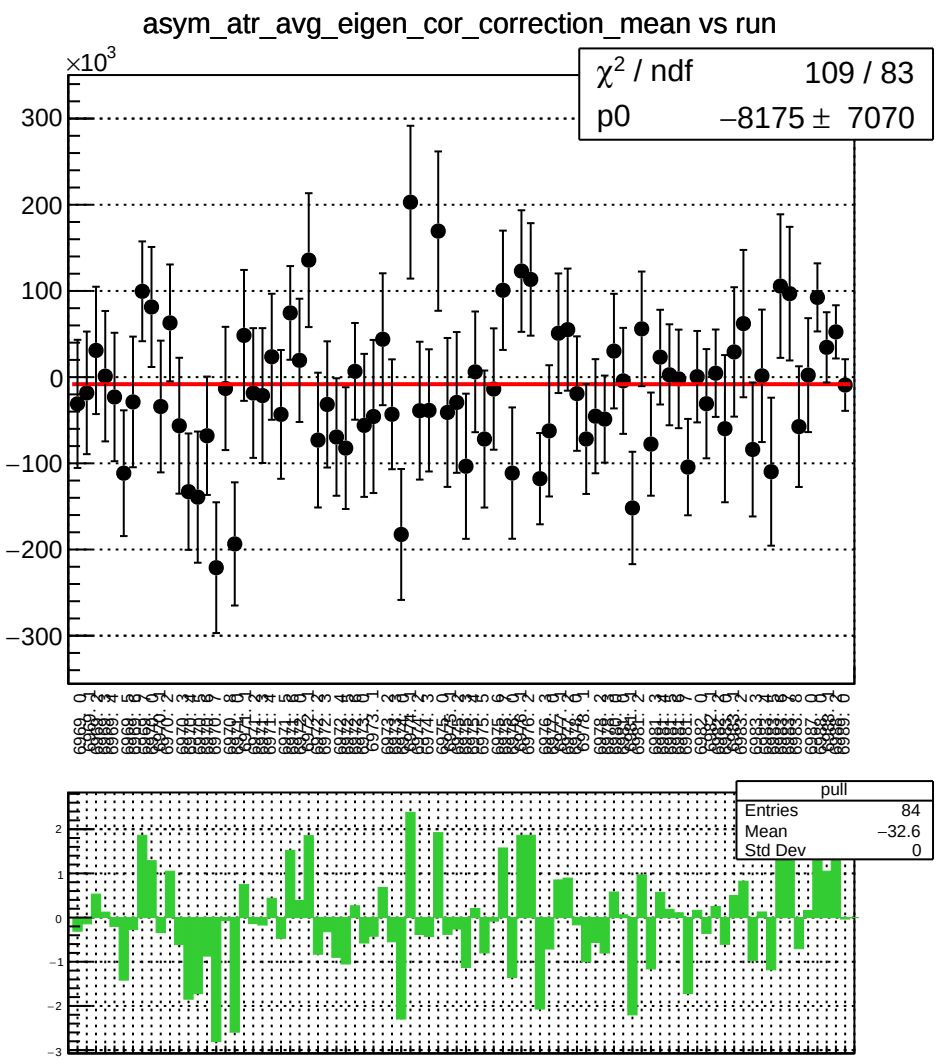

pull1D
Entries 84
Mean −0.05843
Std Dev 1.138

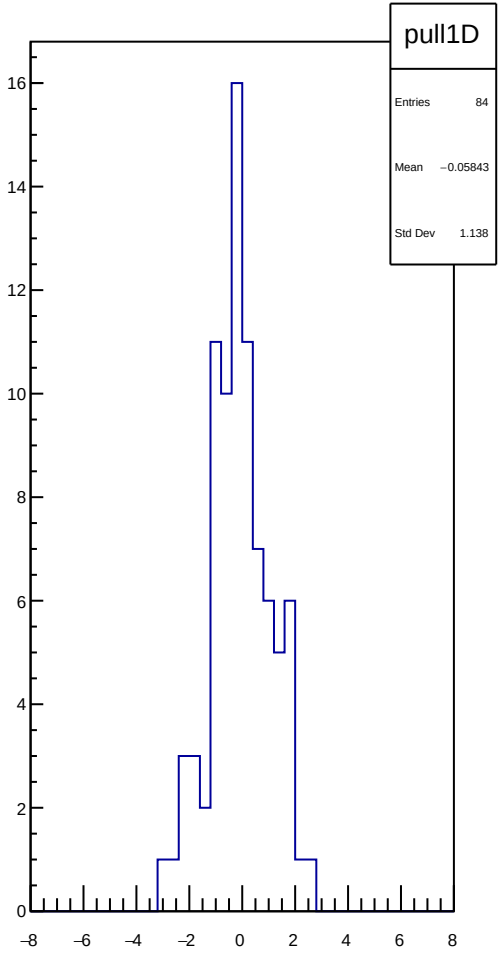

asym_atr_avg_cor_correction_rms vs run
χ^2 / ndf 6.907e+04 / 83
p0 6332 ± 4.999
9000
8000
7000
6000
5000
4000

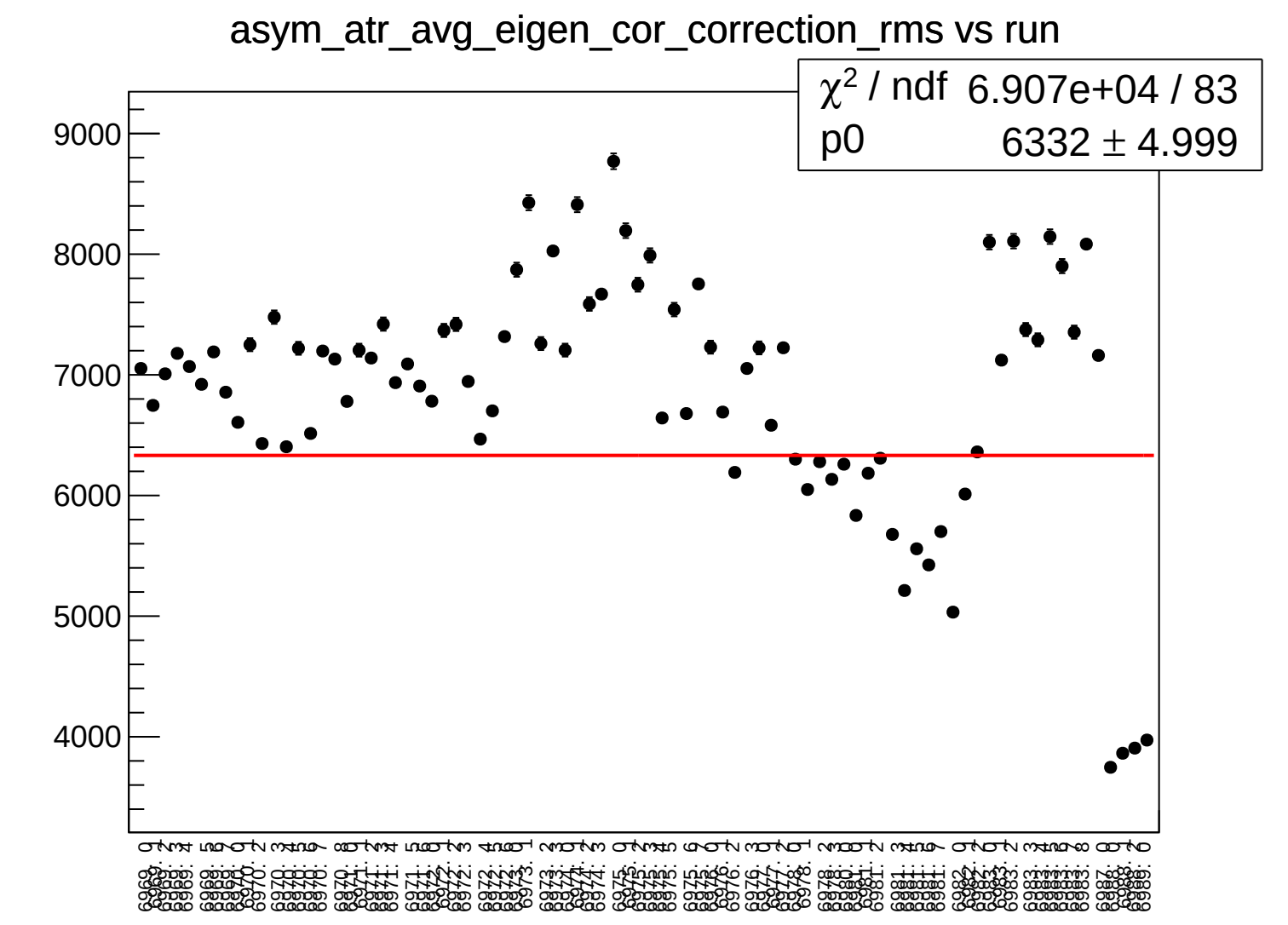

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 80.91 / 83
p0 3854 ± 2011
pull
Entries 84
Mean −83.62
Std Dev 0

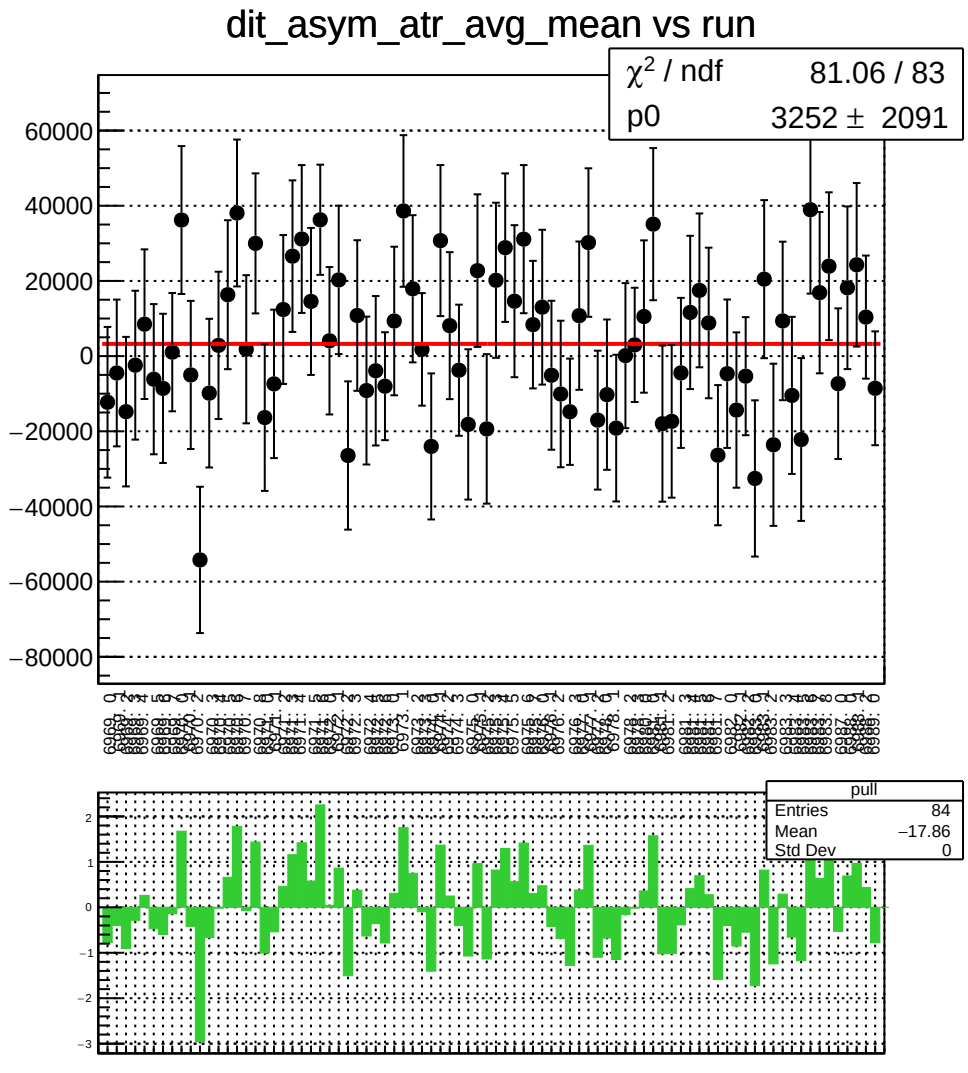

pull1D
Entries 84
Mean 0.01406
Std Dev 0.9813

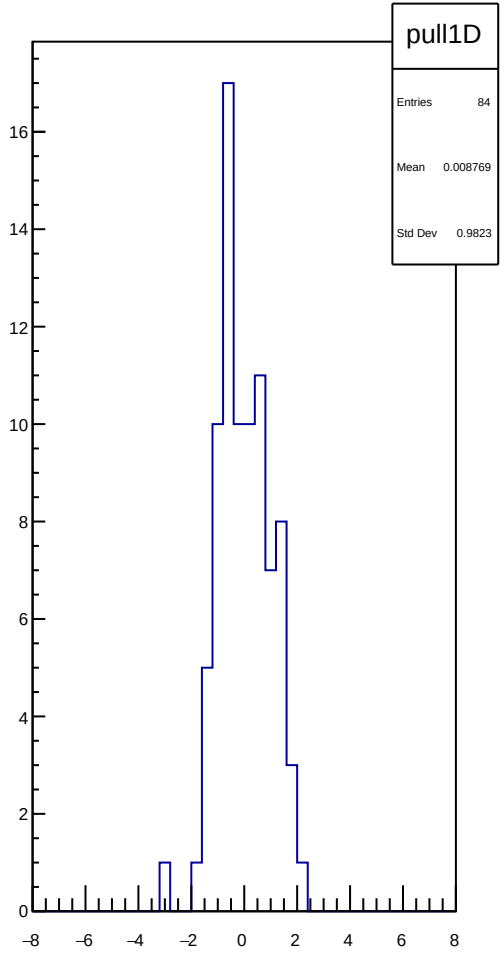

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 1809 / 83
p0 1839 ± 1.422
2200
2100
2000
1900
1800

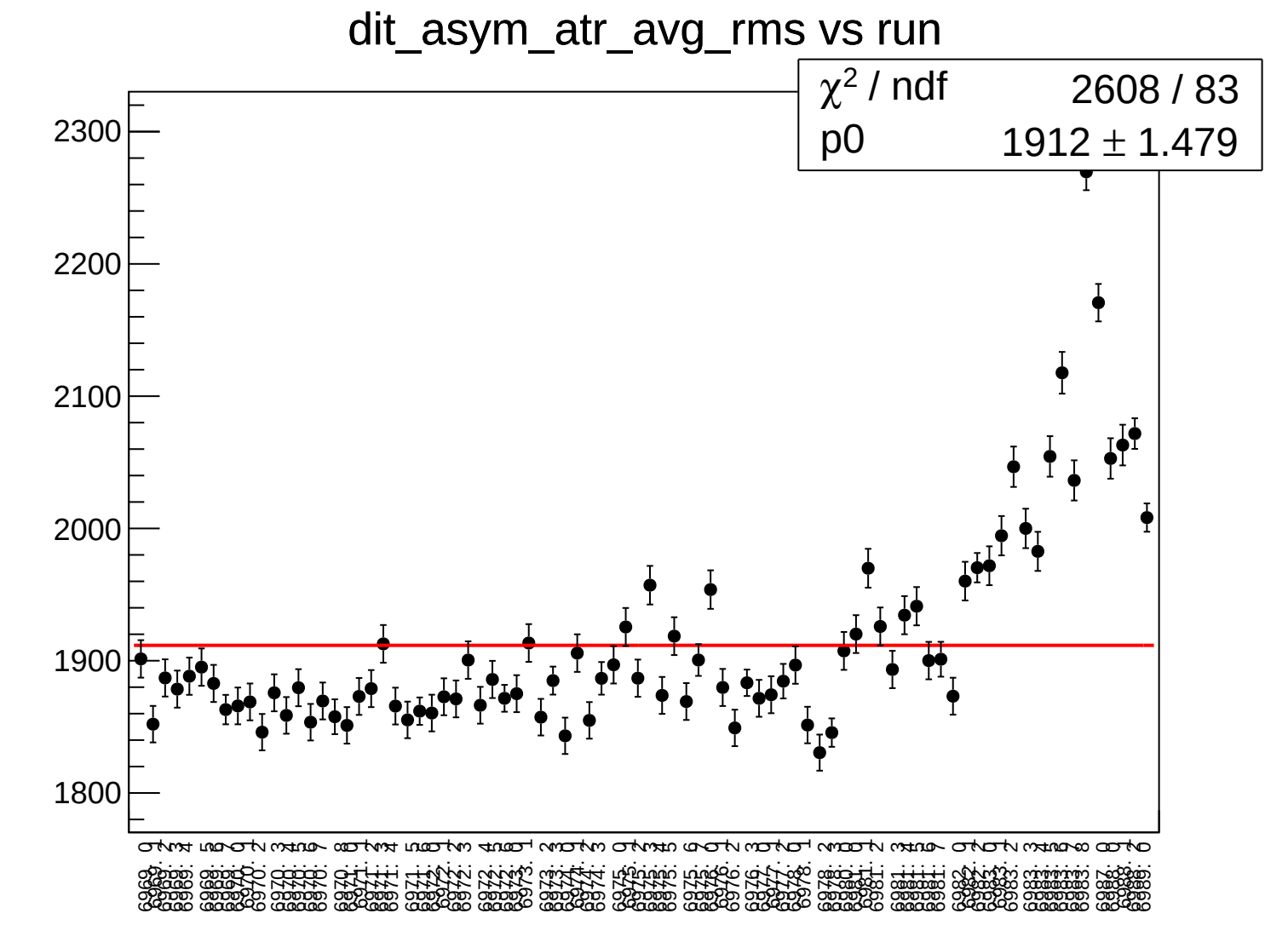

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 109 / 83
p0 −8175 ± 7070
×10³
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −32.6
Std Dev 0
2
1
0
−1
−2
−3

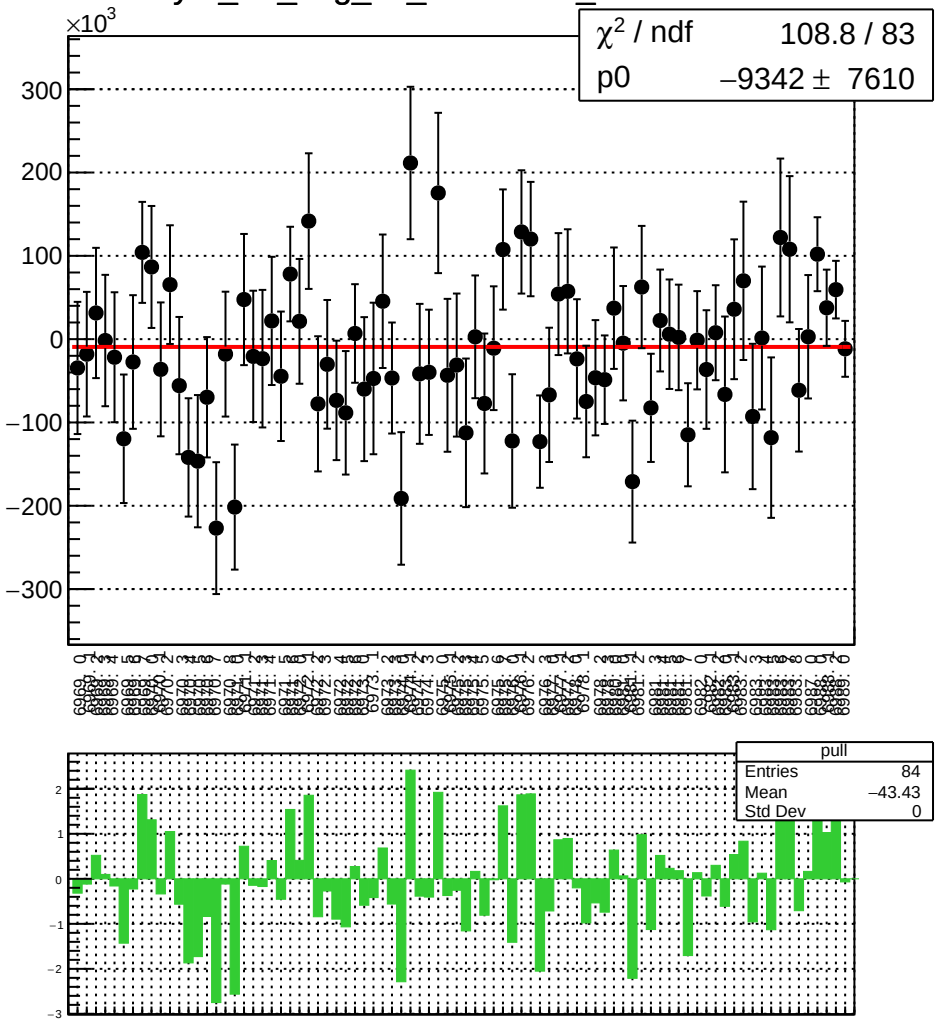

pull1D
Entries 84
Mean −0.05843
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

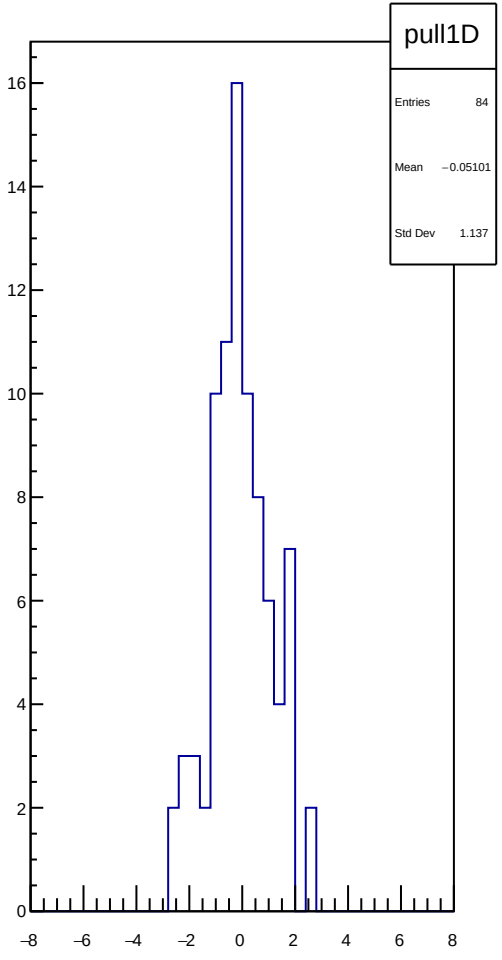

asym_atr_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 6.907e+04 / 83
p0 6332 ± 4.999
9000
8000
7000
6000
5000
4000

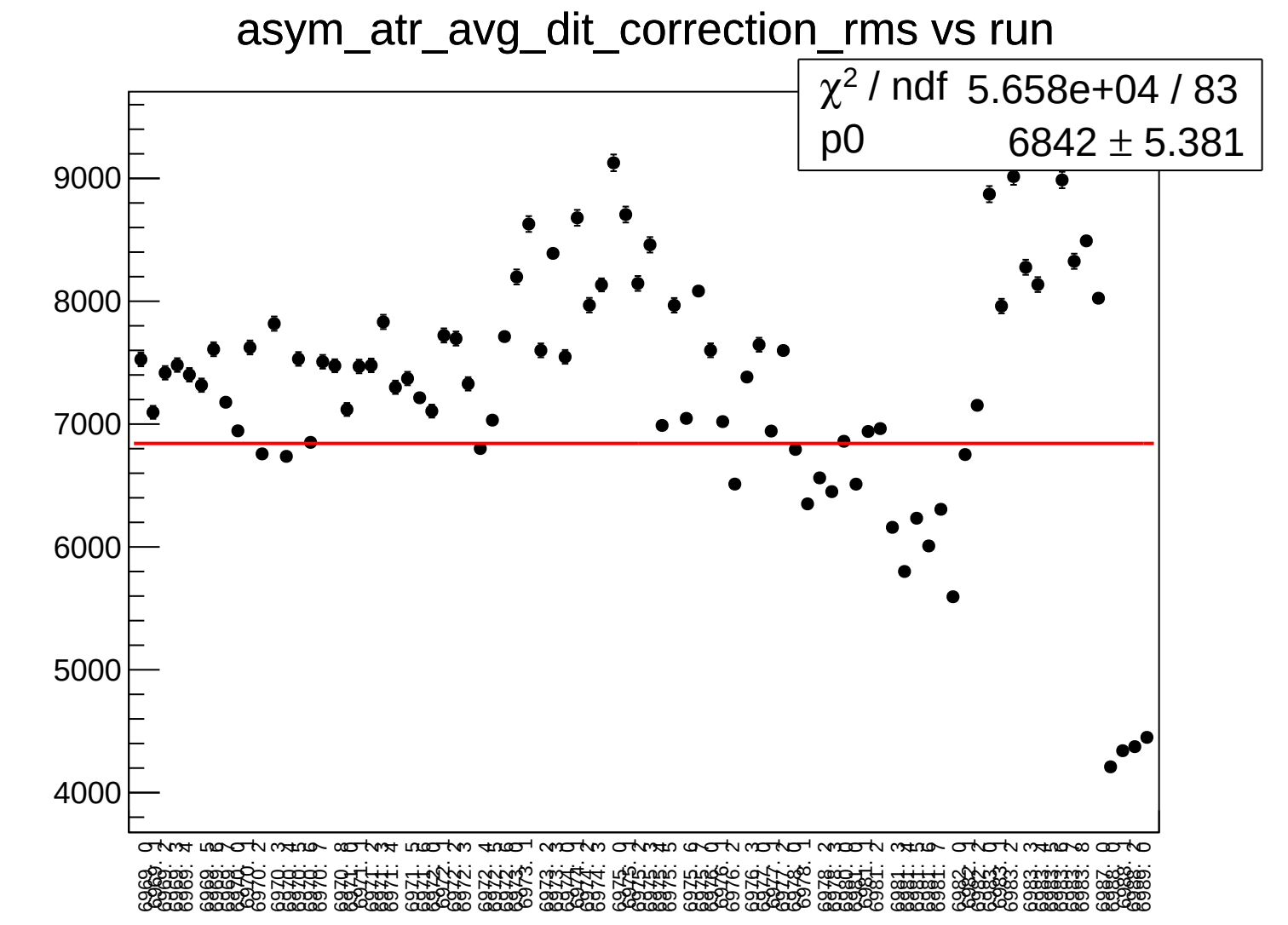

dit_asym_atr_avg_mean vs run
χ² / ndf 81.06 / 83
p0 3252 ± 2091
pull
Entries 84
Mean −17.86
Std Dev 0

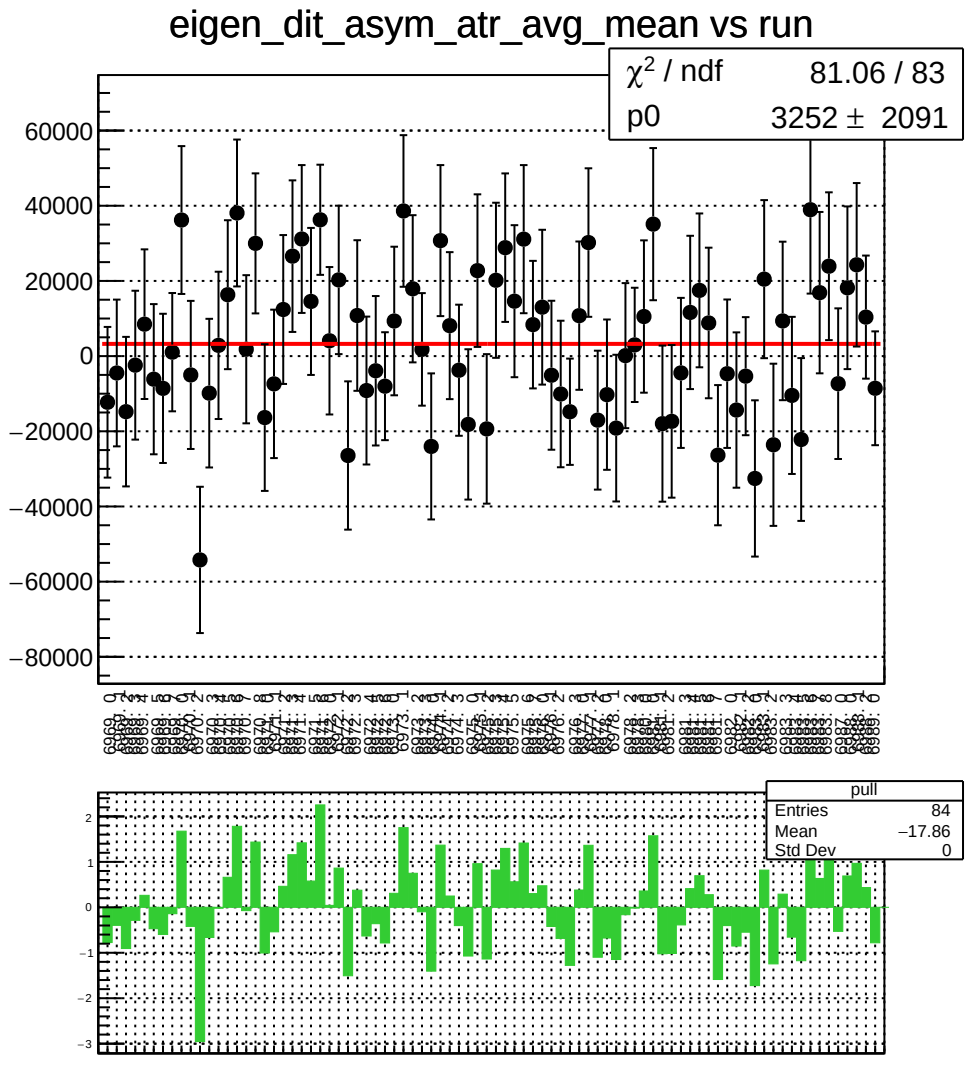

pull1D
Entries 84
Mean 0.008769
Std Dev 0.9823

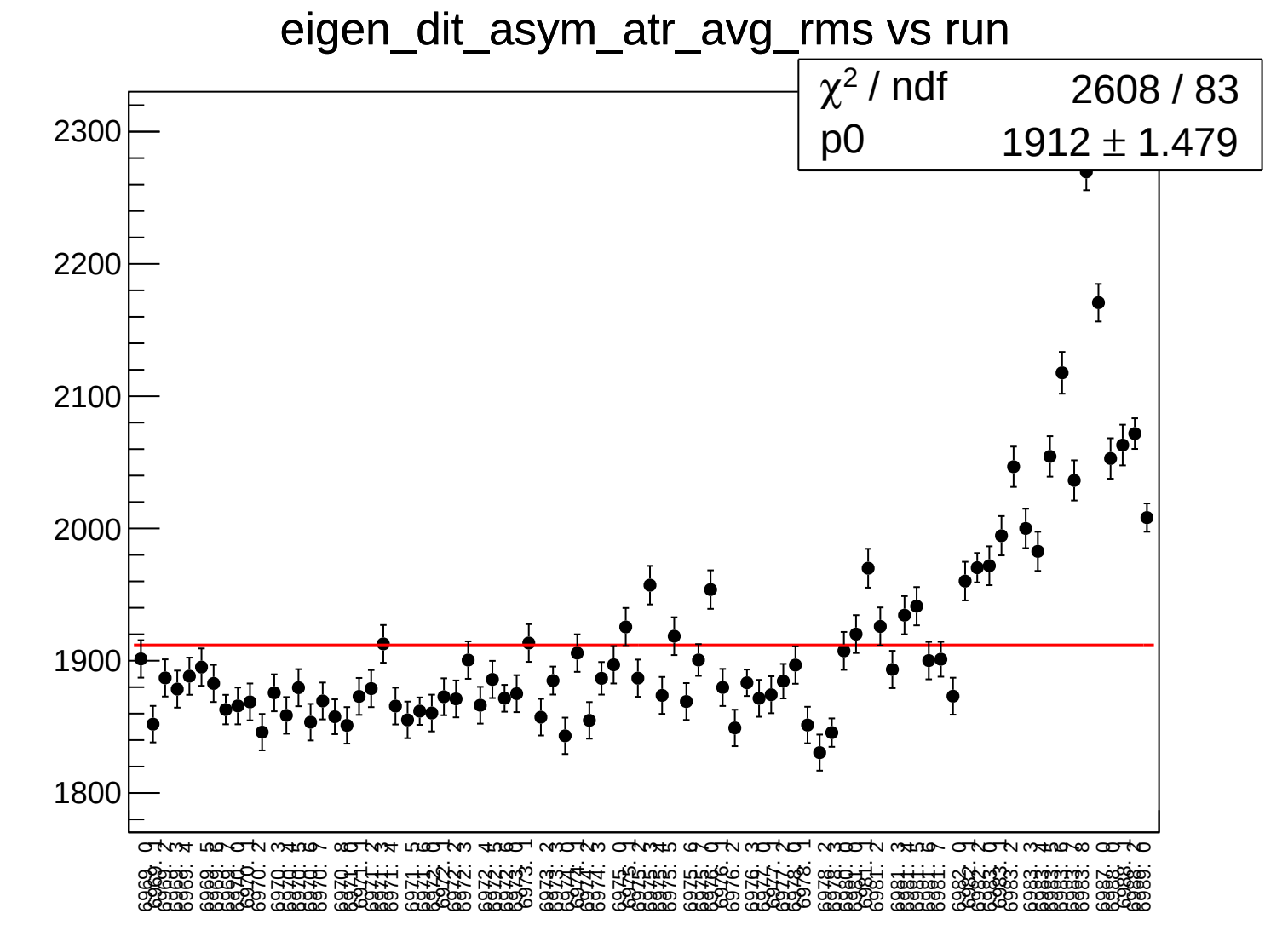

dit_asym_atr_avg_rms vs run
χ² / ndf 2608 / 83
p0 1912 ± 1.479
2300
2200
2100
2000
1900
1800

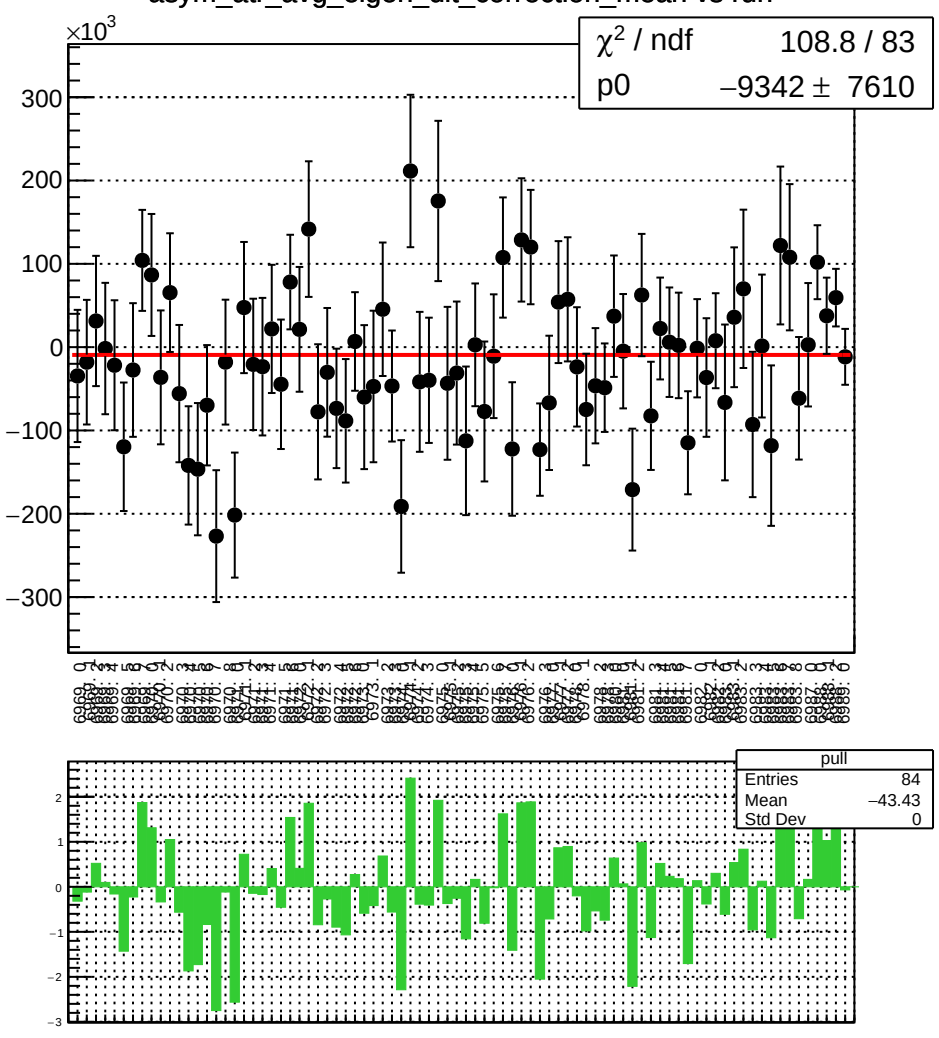

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 108.8 / 83
p0 −9342 ± 7610
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −43.43
Std Dev 0
2
1
0
−1
−2
−3

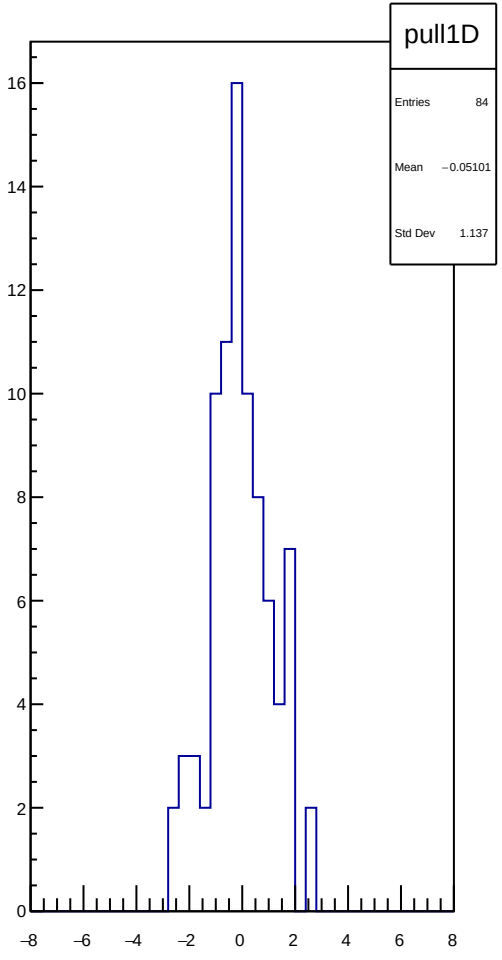

pull1D
Entries 84
Mean −0.05101
Std Dev 1.137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

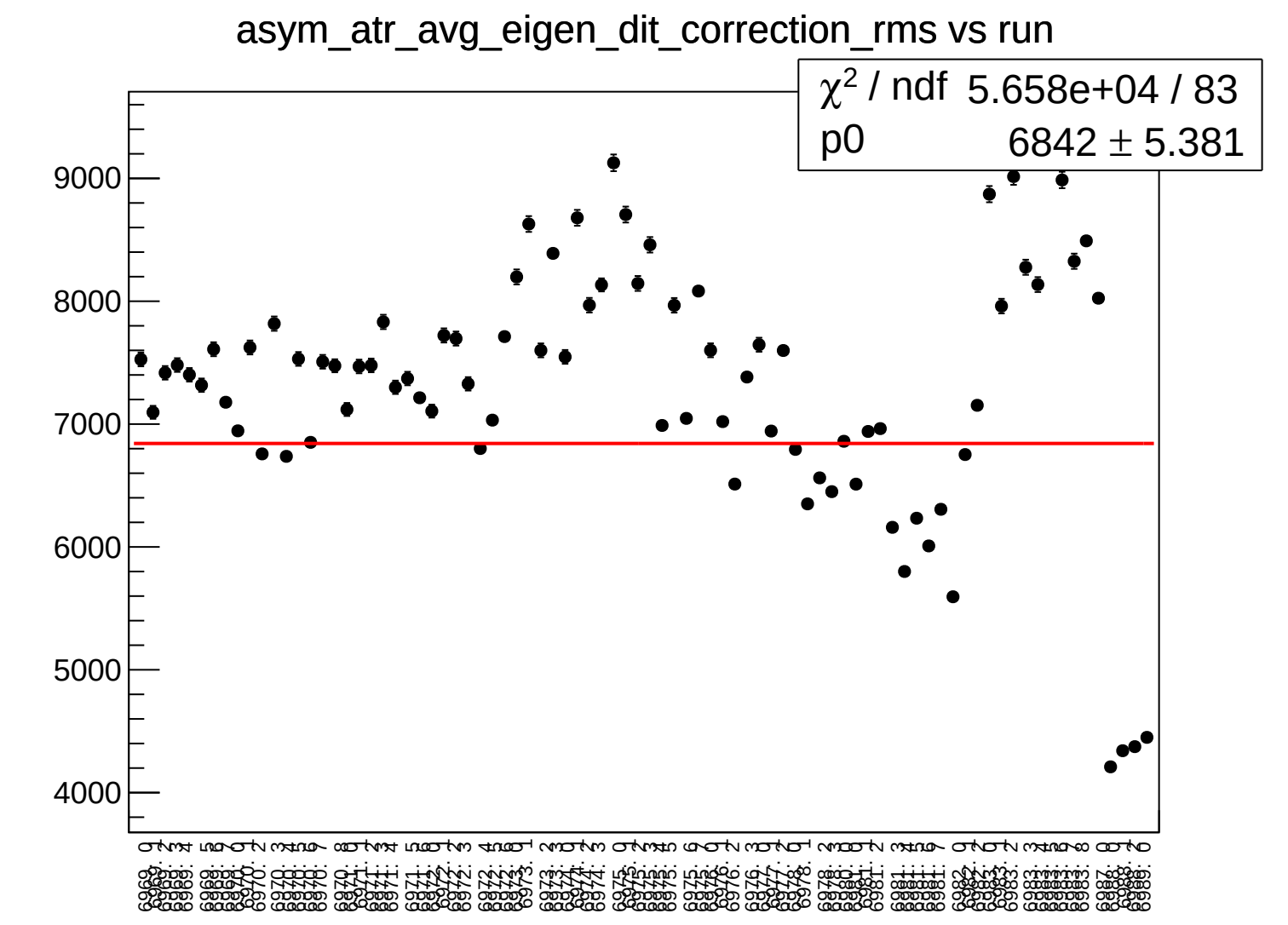

asym_atr_avg_dit_correction_rms vs run
χ^2 / ndf 5.658e+04 / 83
p0 6842 ± 5.381
9000
8000
7000
6000
5000
4000

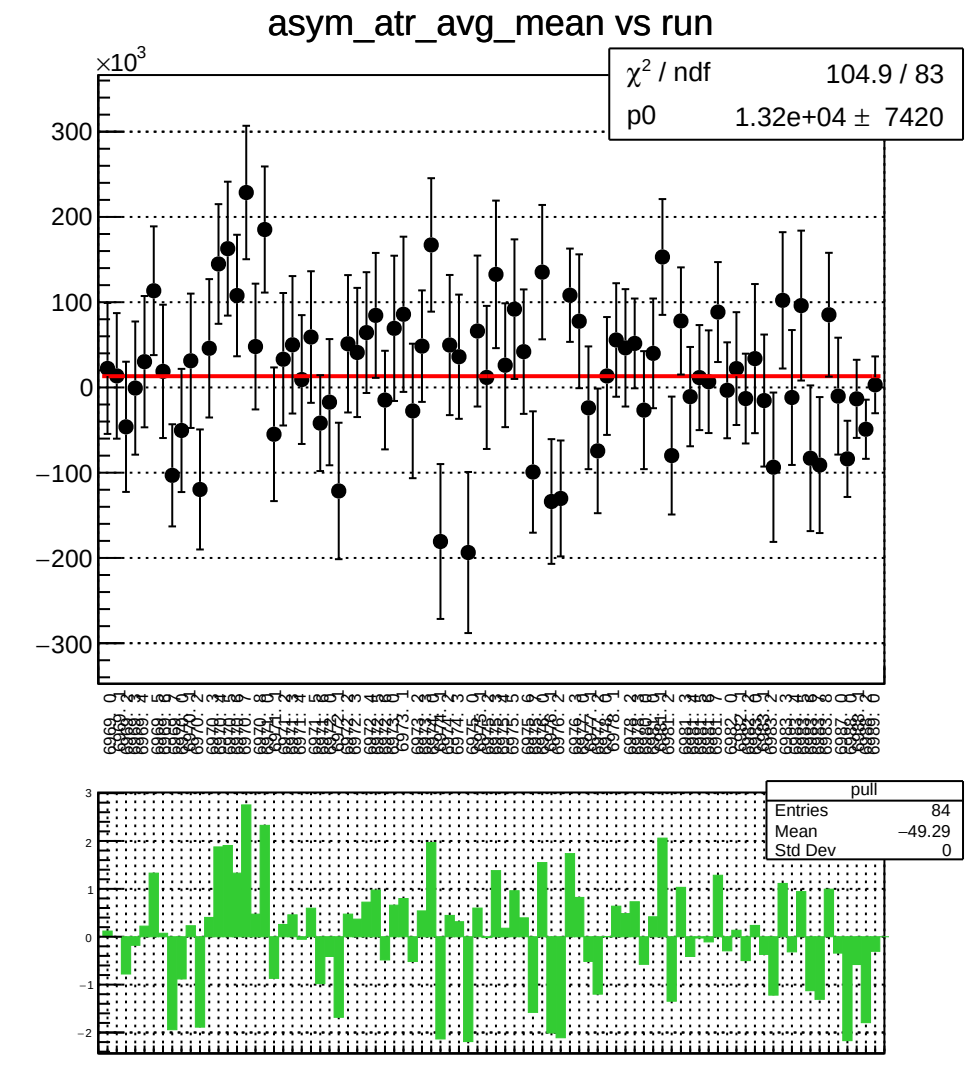

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 81.06 / 83
p0 3252 ± 2091
pull
Entries 84
Mean −17.86
Std Dev 0
pull1D
Entries 84
Mean 0.008769
Std Dev 0.9823

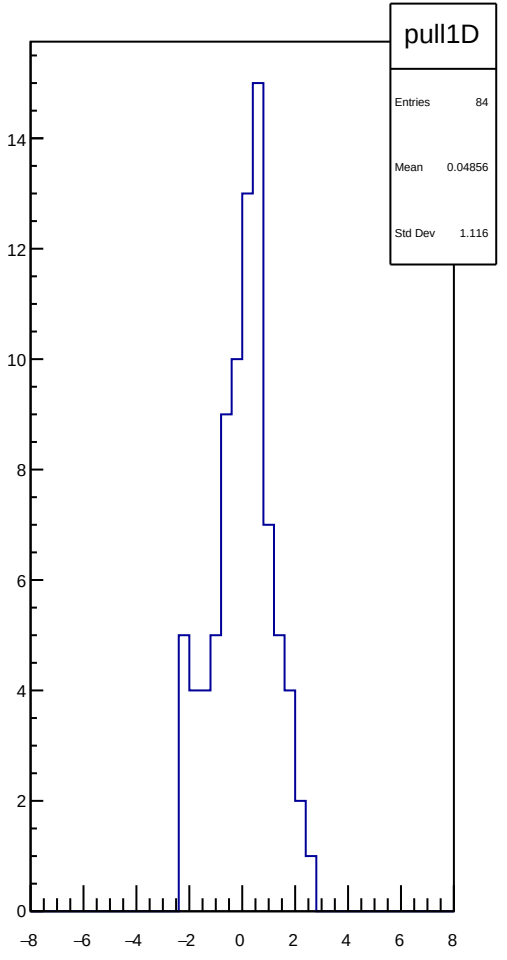

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 2608 / 83
p0 1912 ± 1.479
2300
2200
2100
2000
1900
1800

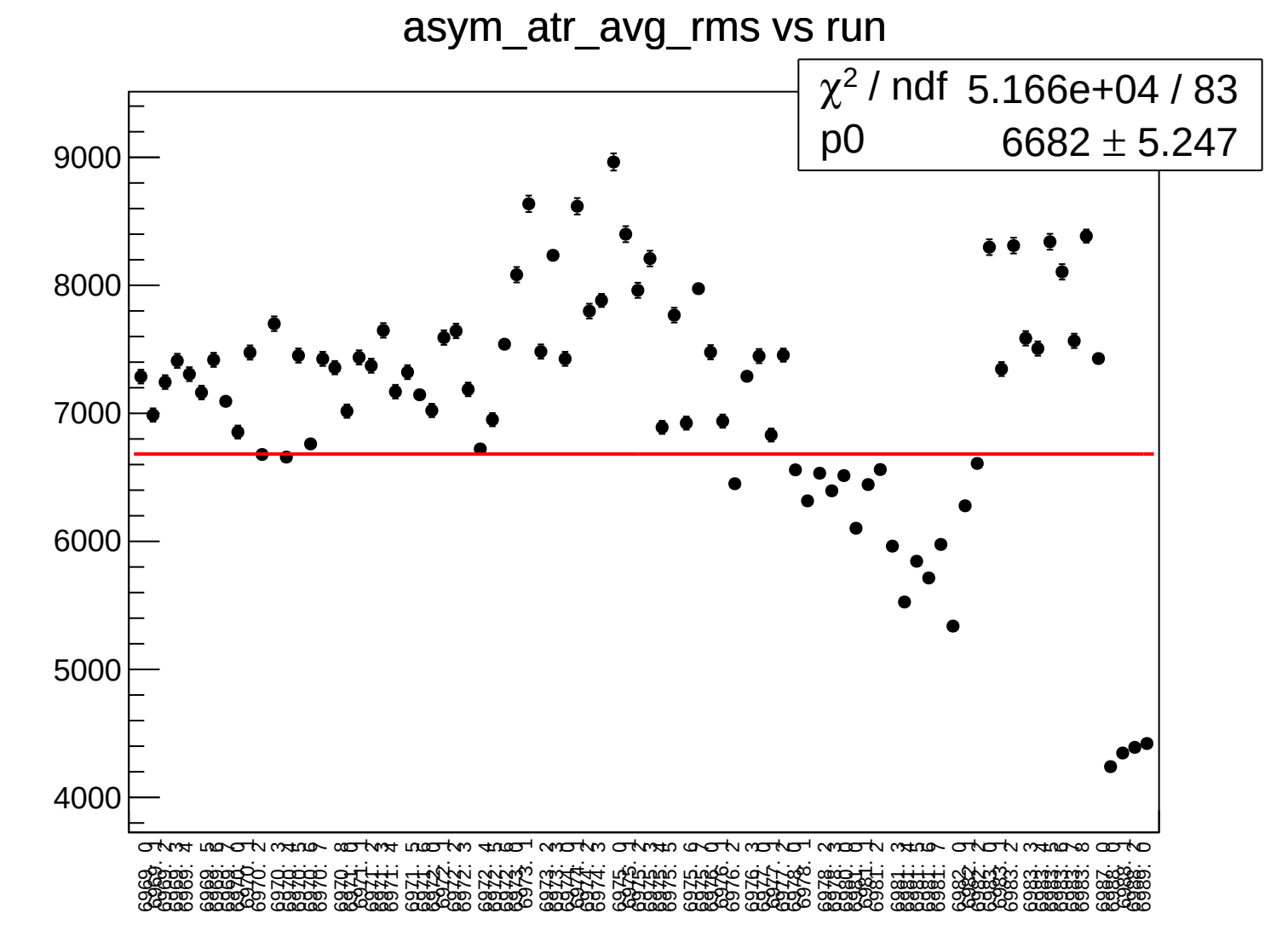

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 108.8 / 83
p0 −9342 ± 7610
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −43.43
Std Dev 0
2
1
0
−1
−2
−3

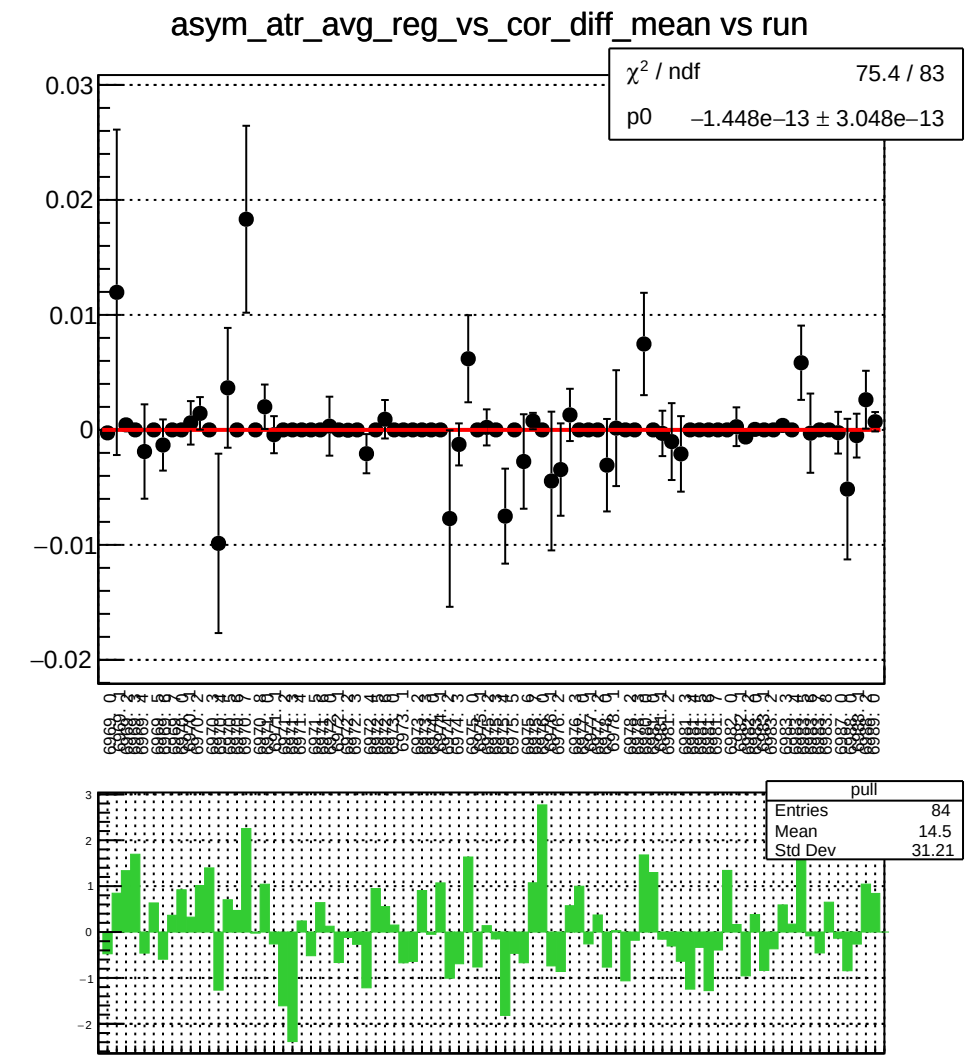

pull1D
Entries 84
Mean −0.05101
Std Dev 1.137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

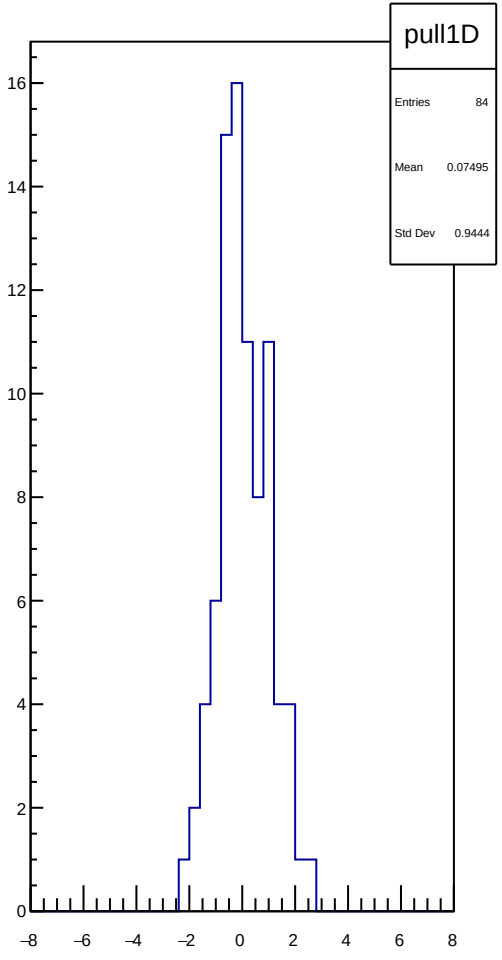

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.658e+04 / 83
p0 6842 ± 5.381
9000
8000
7000
6000
5000
4000

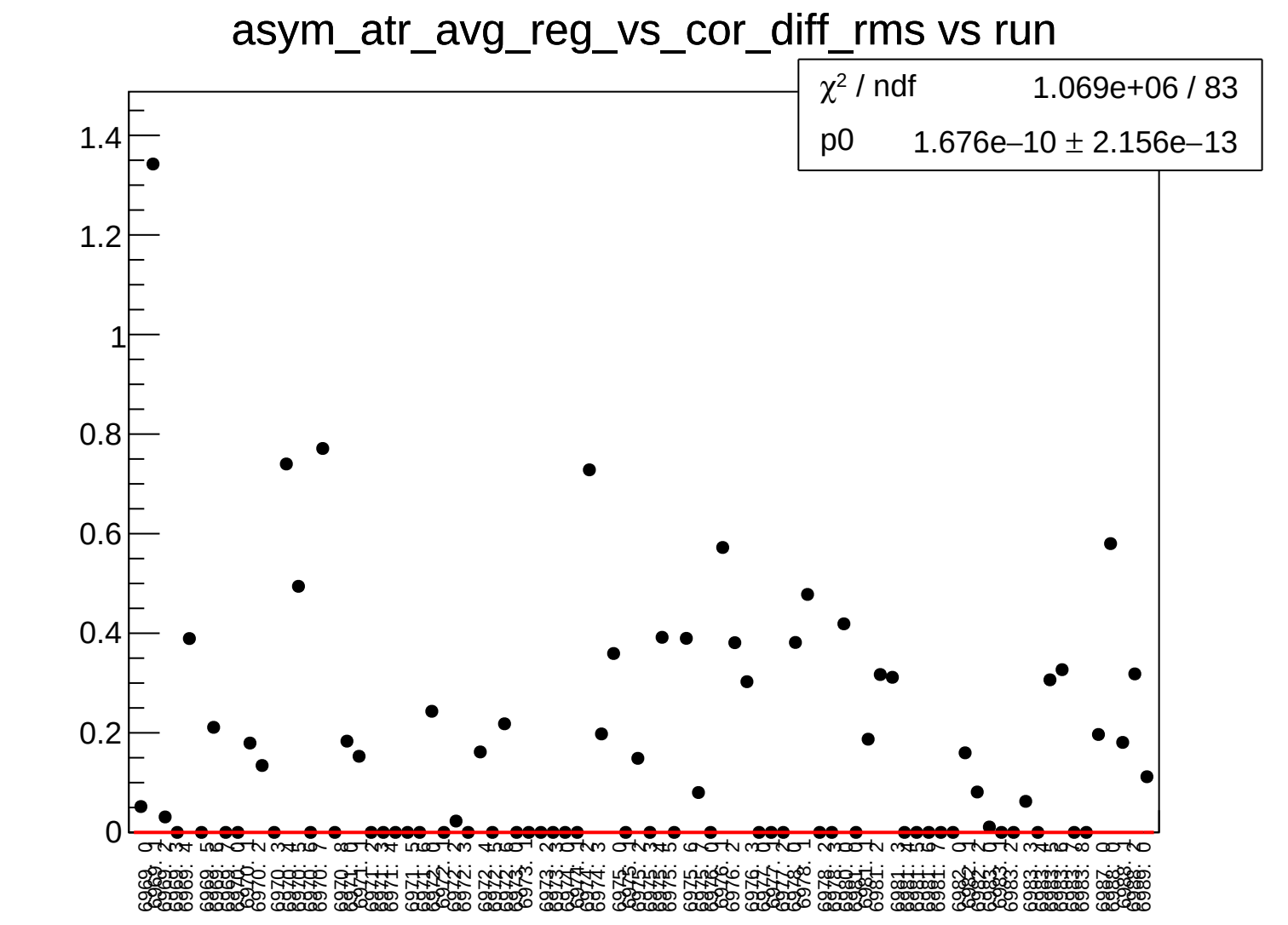

asym_atr_avg_mean vs run
×10^3
χ² / ndf 104.9 / 83
p0 1.32e+04 ± 7420
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −49.29
Std Dev 0
3
2
1
0
−1
−2

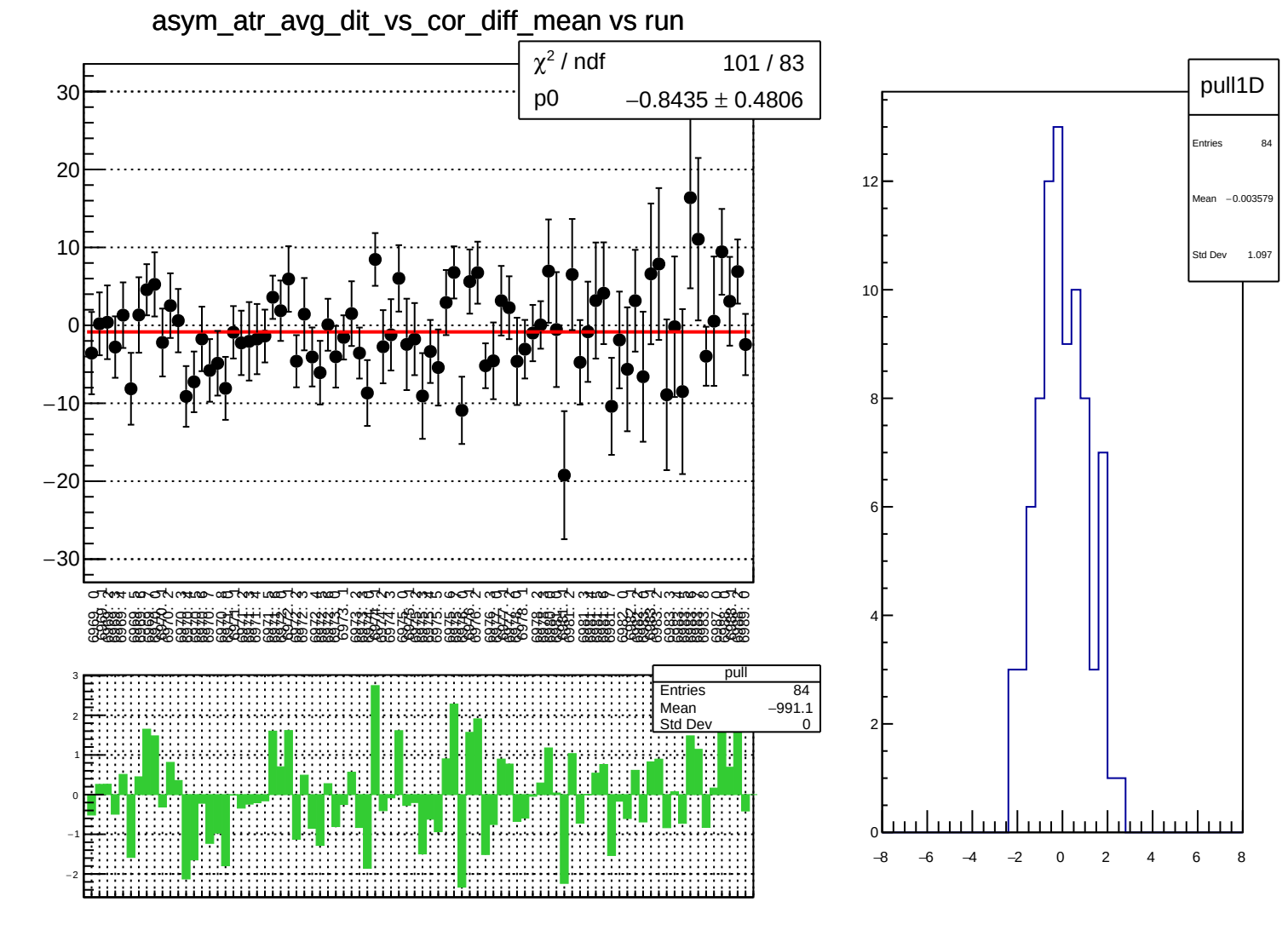

pull1D
Entries 84
Mean 0.04856
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

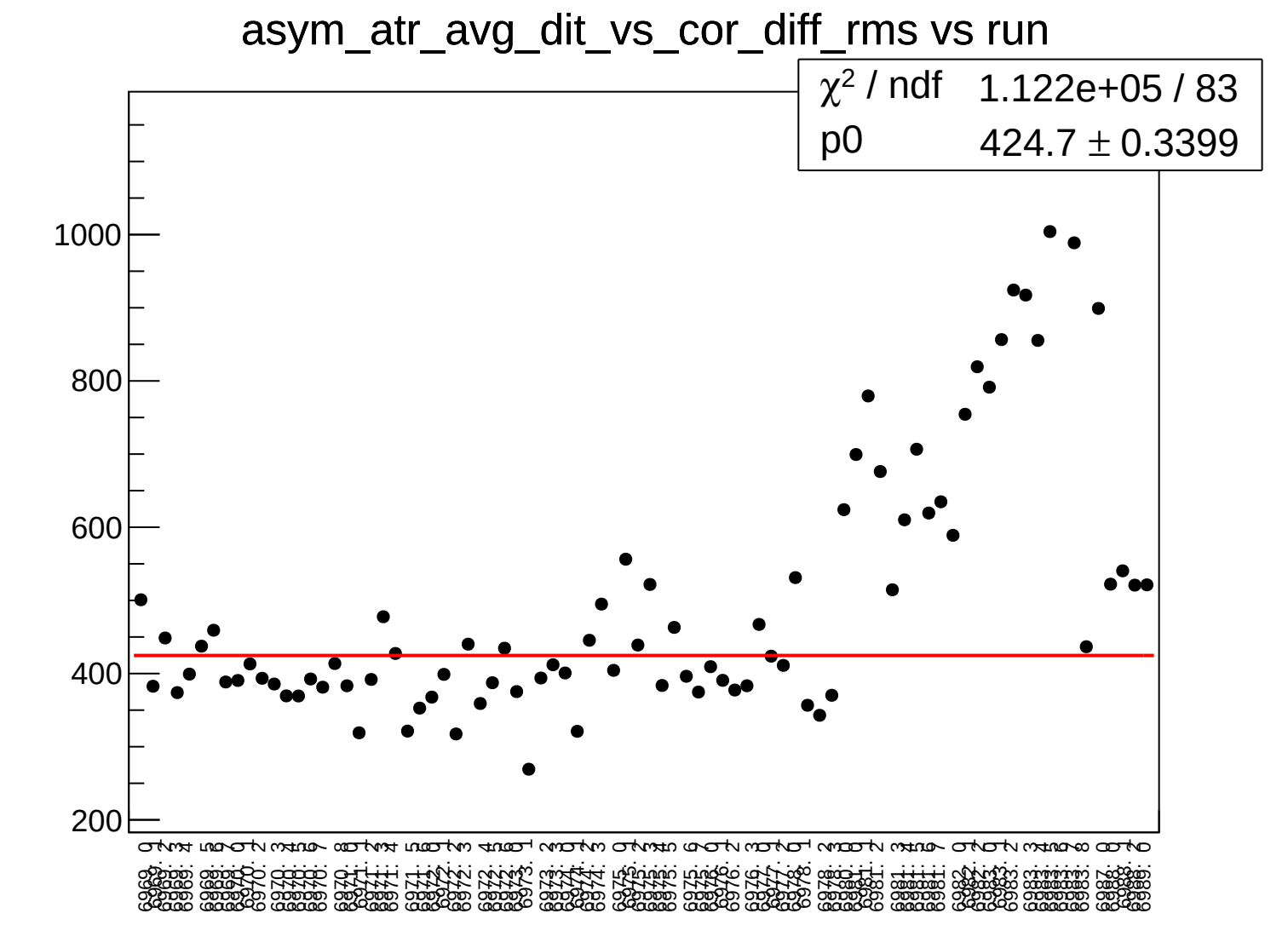

asym_atr_avg_rms vs run
χ^2 / ndf 5.166e+04 / 83
p0 6682 ± 5.247
9000
8000
7000
6000
5000
4000


asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.4 / 83
p0 −1.448e−13 ± 3.048e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 14.5
Std Dev 31.21
3
2
1
0
−1
−2

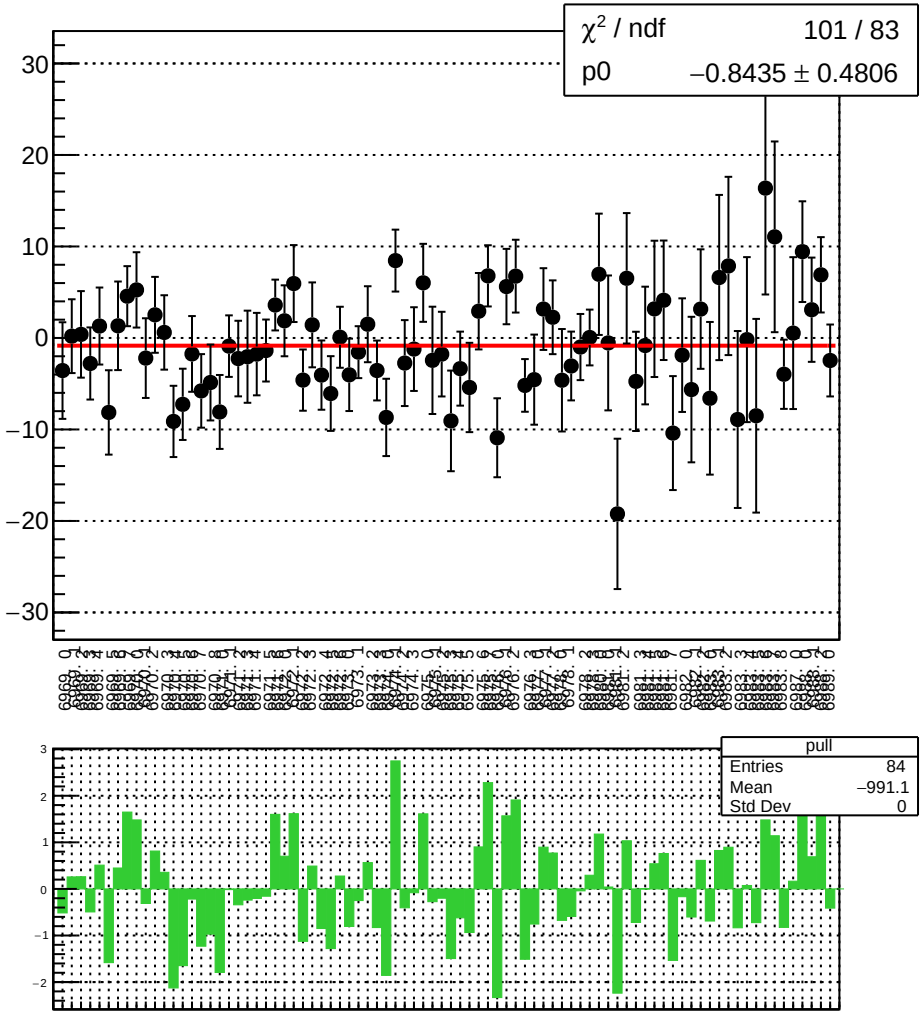

pull1D
Entries 84
Mean 0.07495
Std Dev 0.9444
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

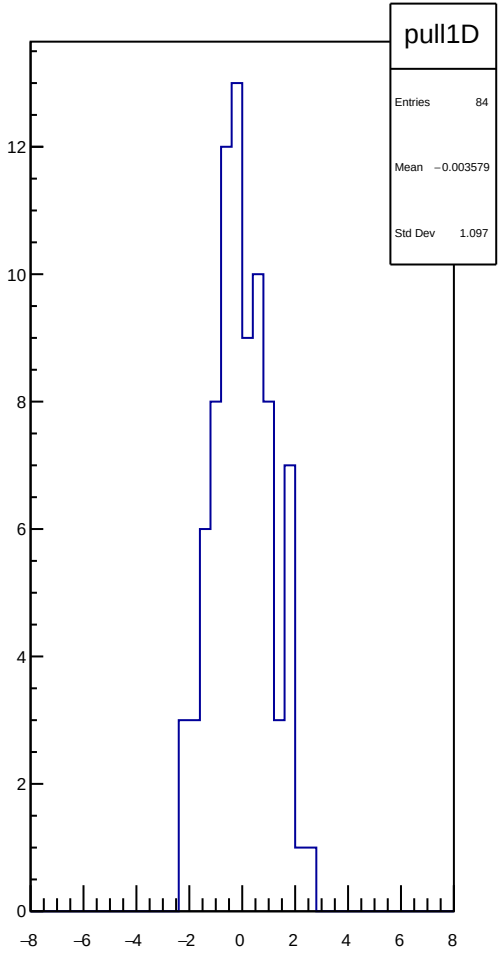

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.069e+06 / 83
p0 1.676e−10 ± 2.156e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

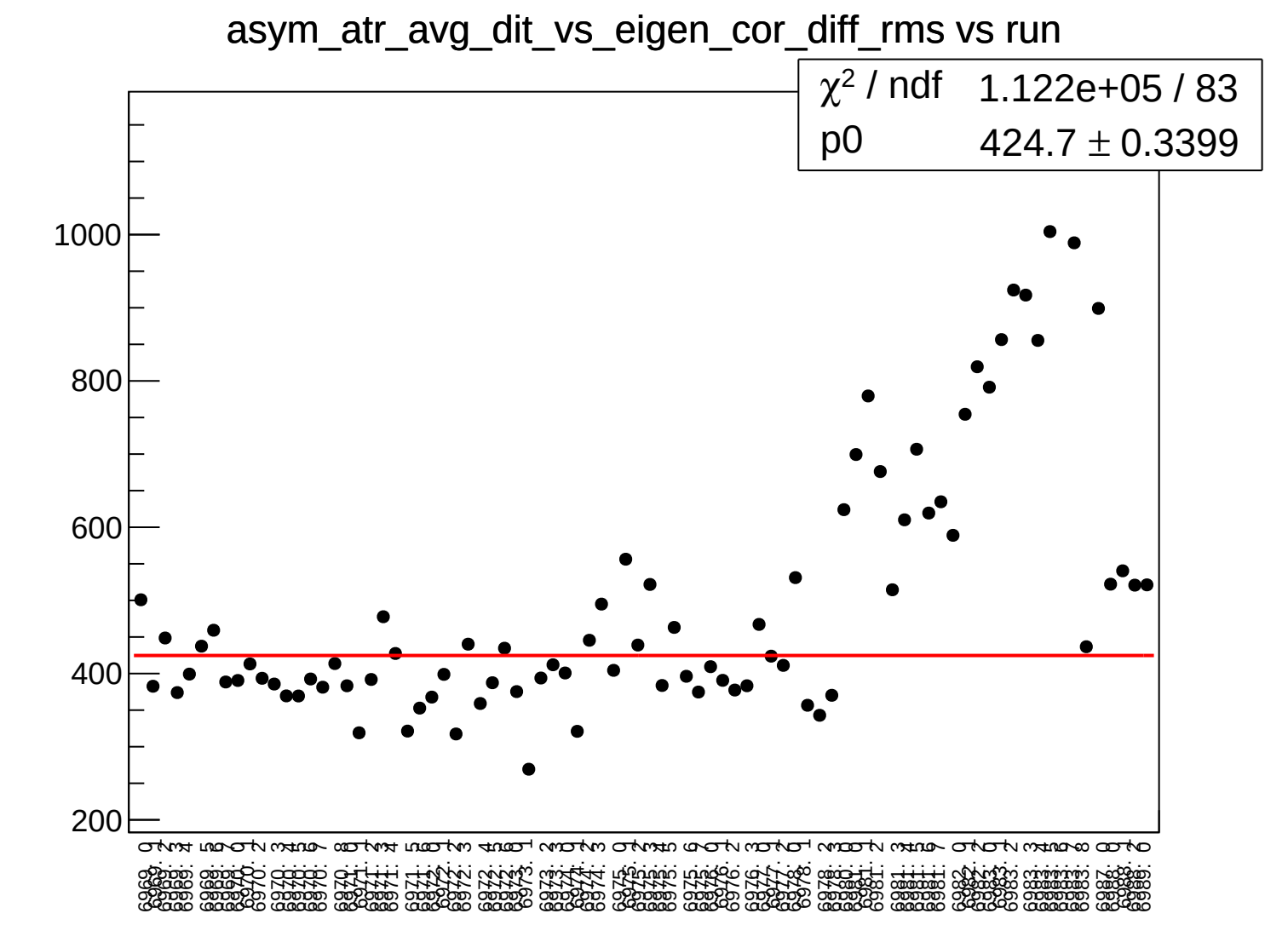

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 83
p0 −0.8435 ± 0.4806
pull
Entries 84
Mean −991.1
Std Dev 0
pull1D
Entries 84
Mean −0.003579
Std Dev 1.097

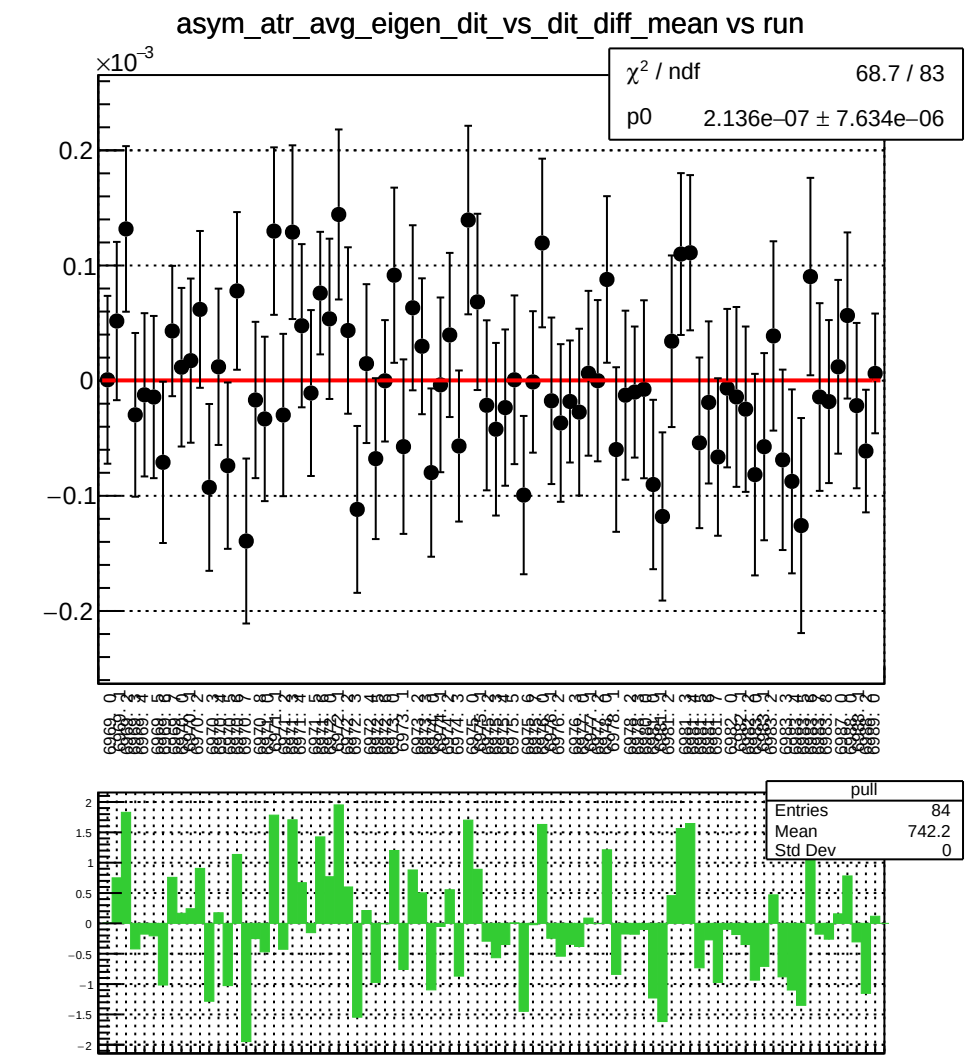

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.122e+05 / 83
p0 424.7 ± 0.3399
1000
800
600
400
200

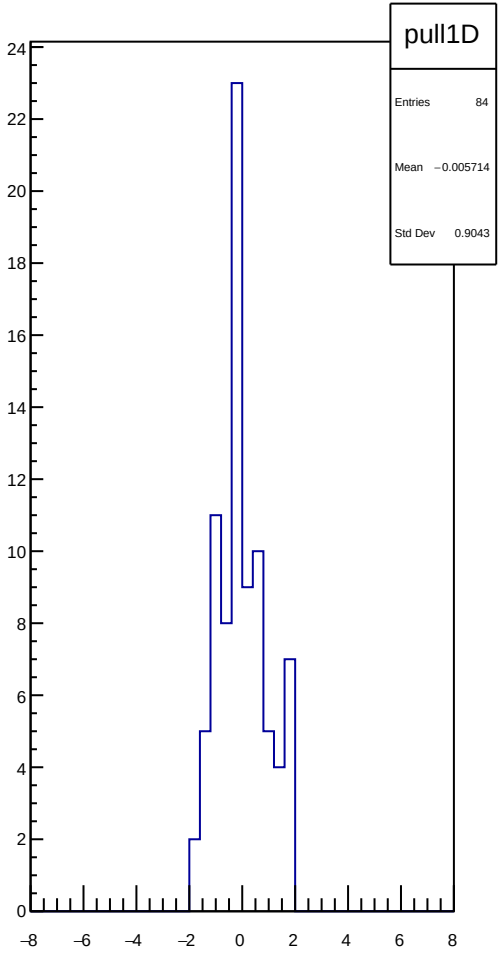
asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run

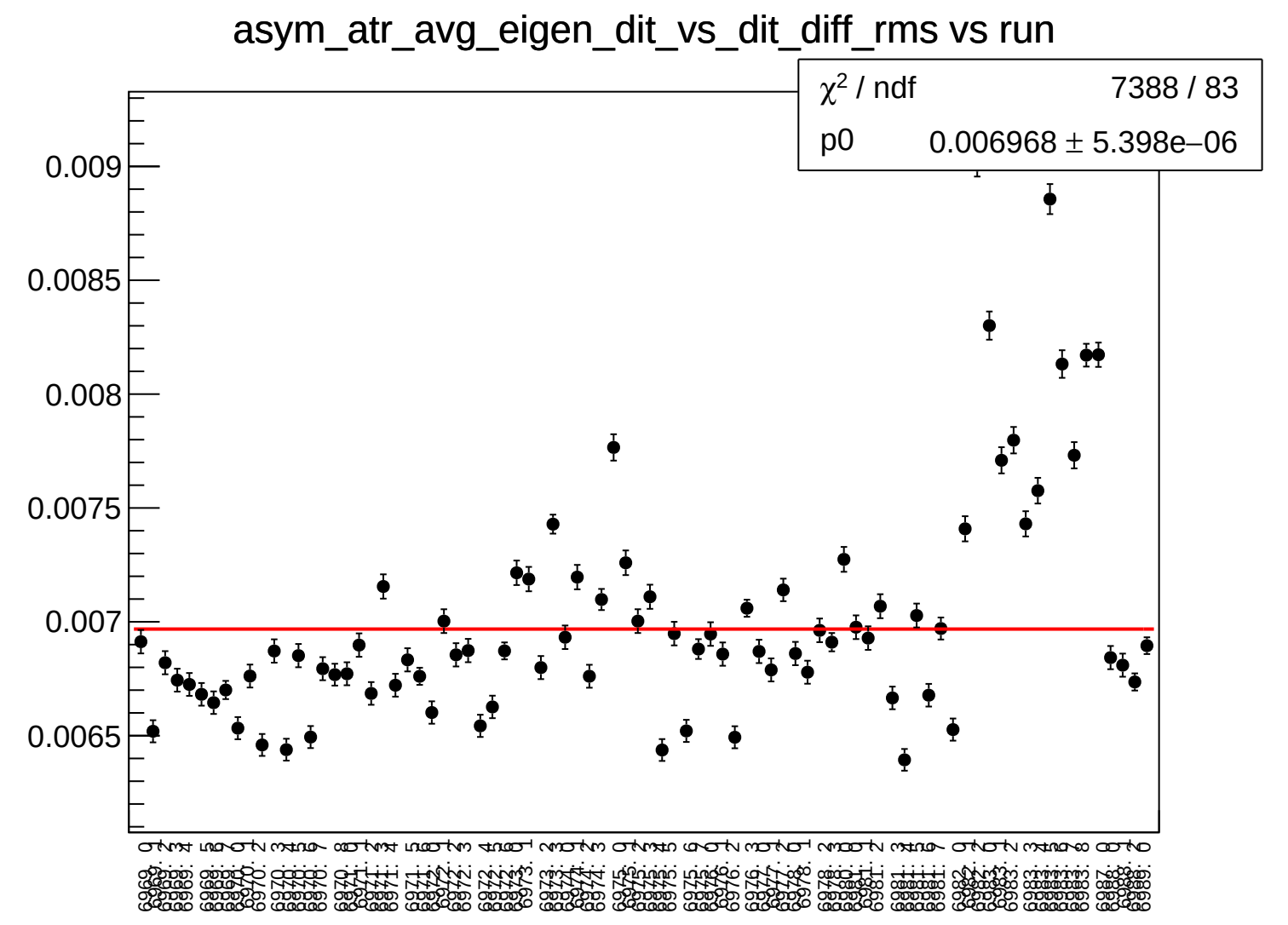


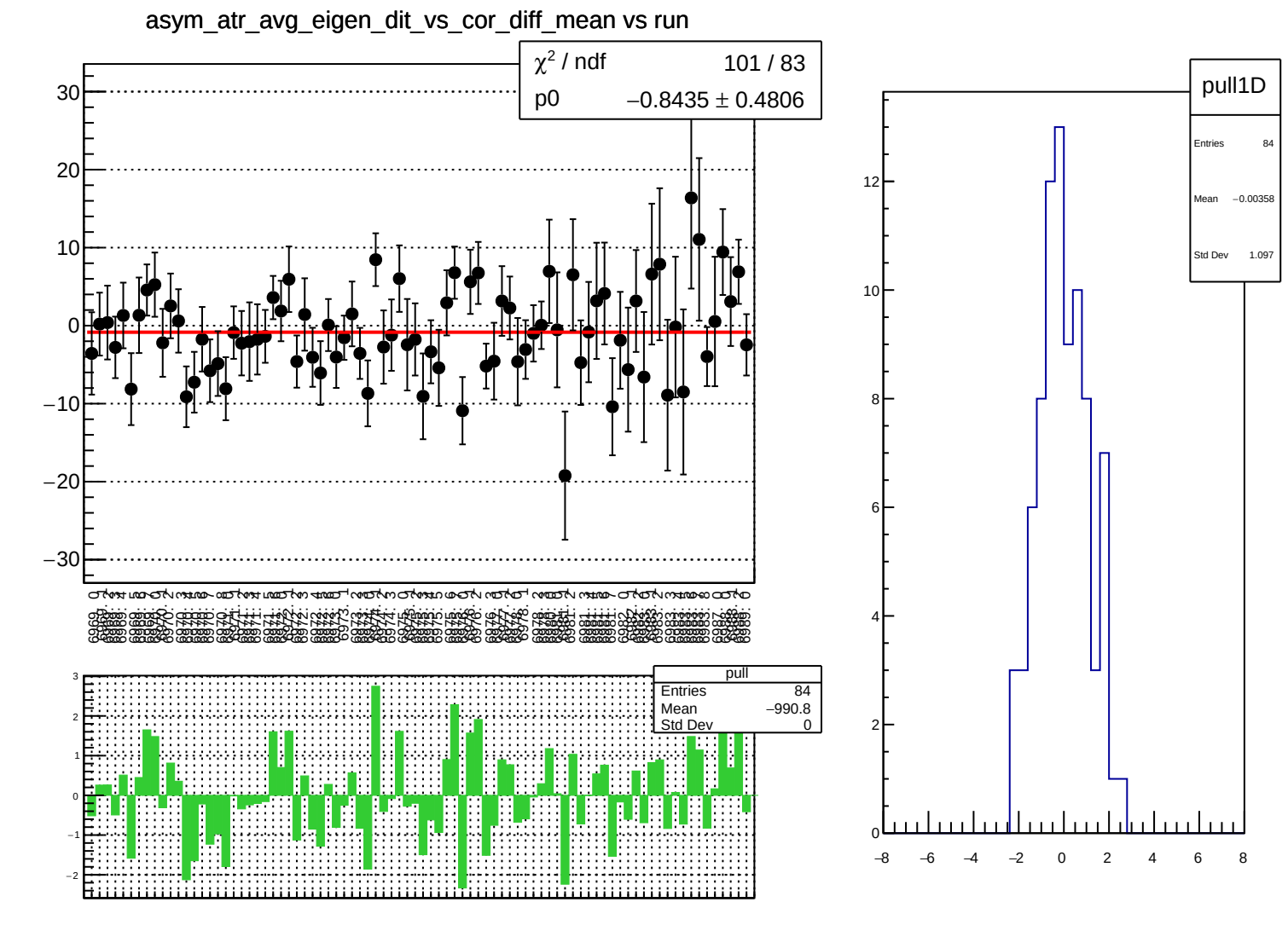


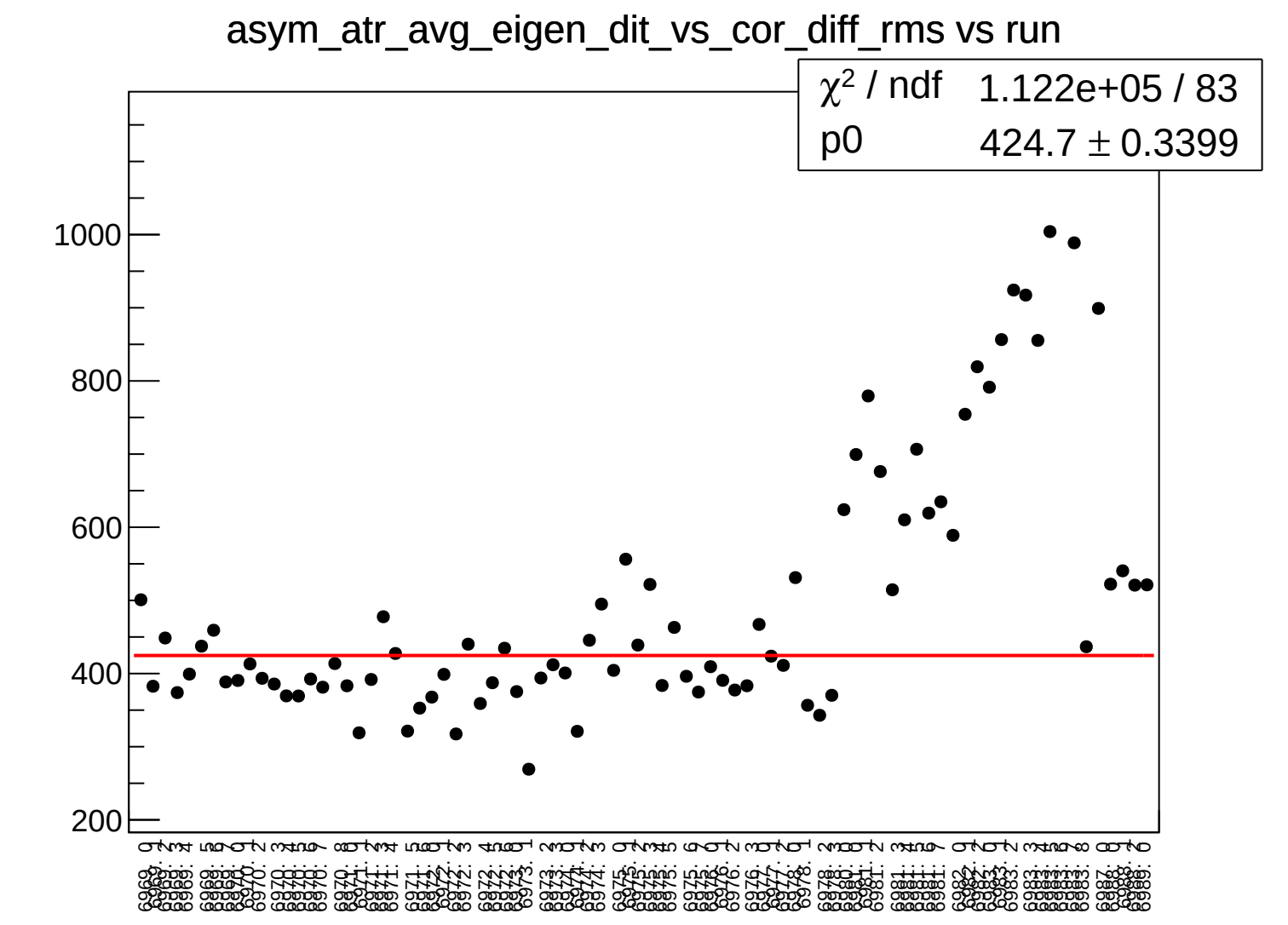

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.122e+05 / 83
p0 424.7 ± 0.3399
1000
800
600
400
200

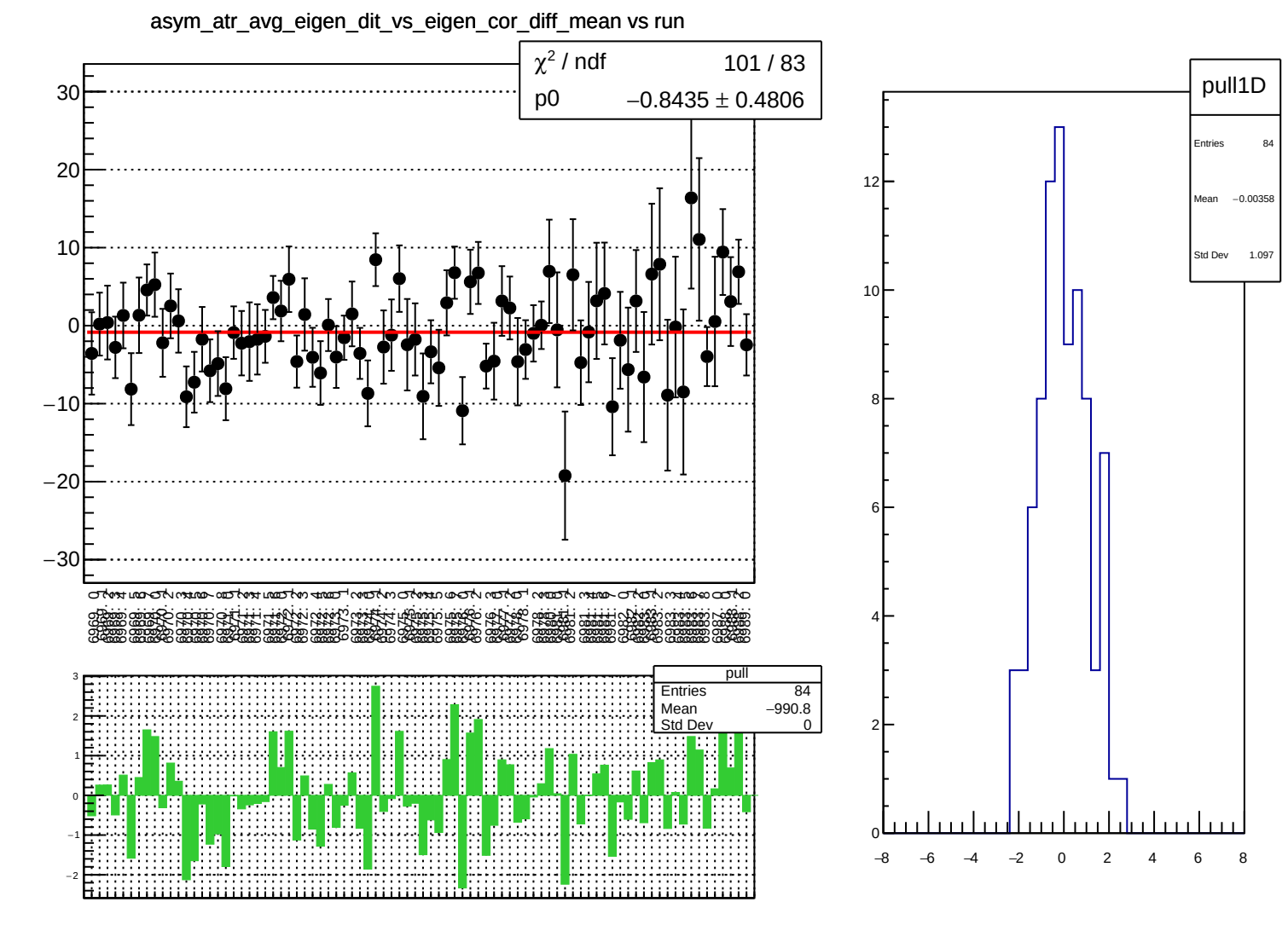

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 68.7 / 83
p0 2.136e−07 ± 7.634e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 84
Mean 742.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

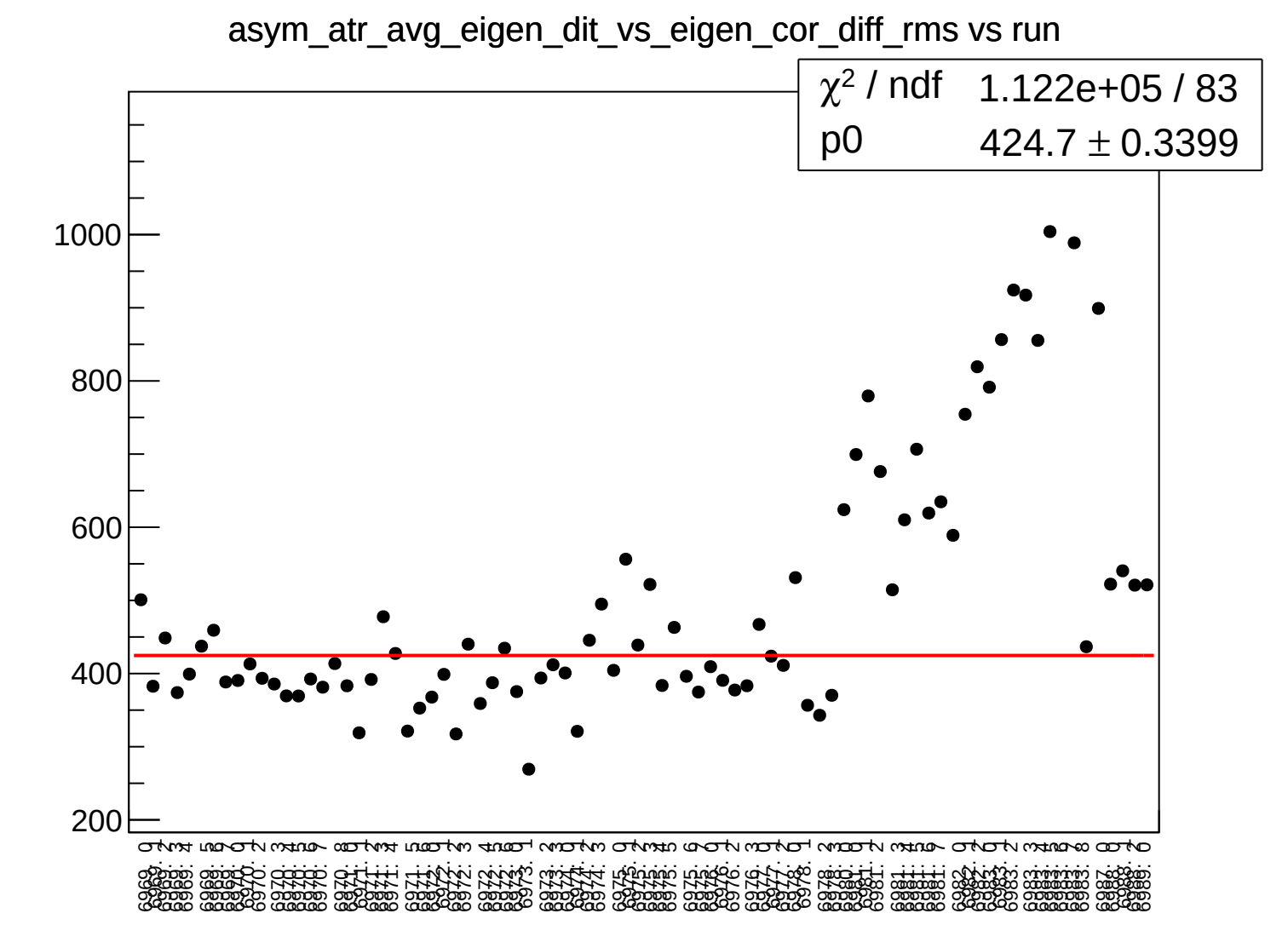

pull1D
Entries 84
Mean −0.005714
Std Dev 0.9043
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

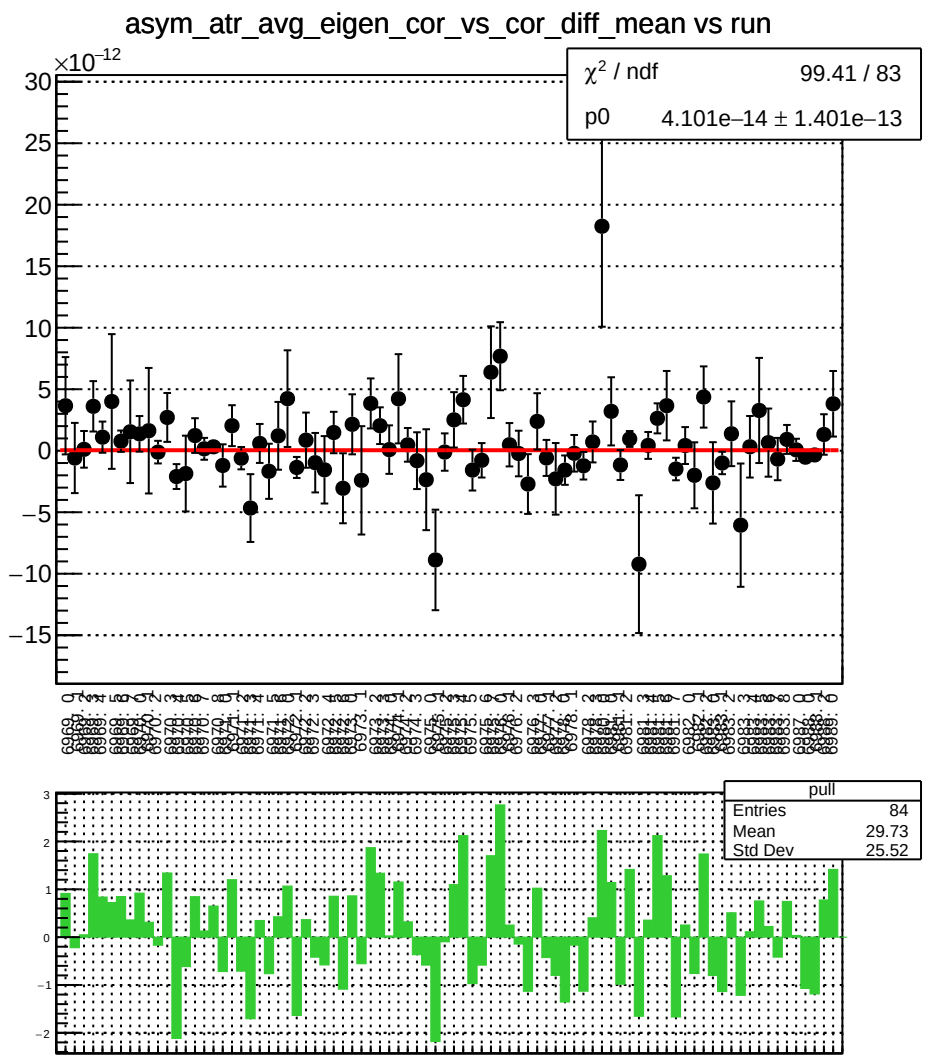

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7388 / 83
p0 0.006968 ± 5.398e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065

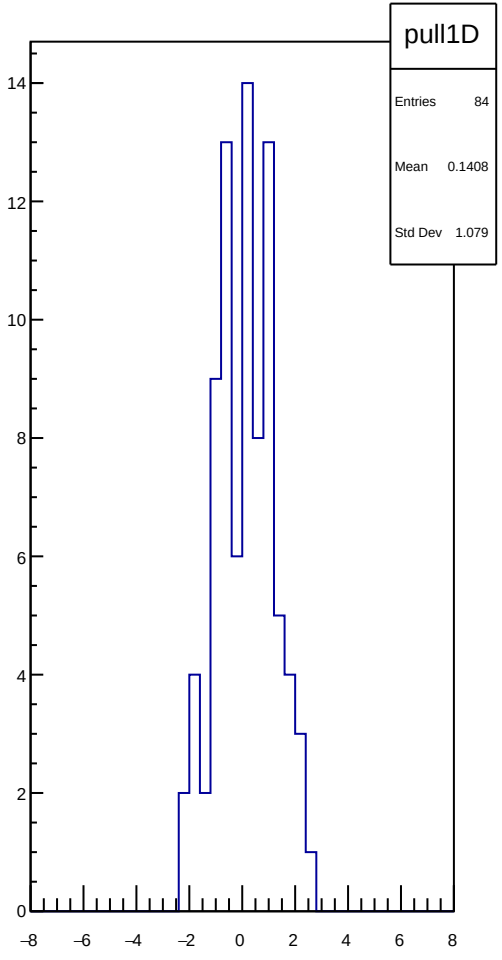

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 83
p0 −0.8435 ± 0.4806
pull
Entries 84
Mean −990.8
Std Dev 0
pull1D
Entries 84
Mean −0.00358
Std Dev 1.097

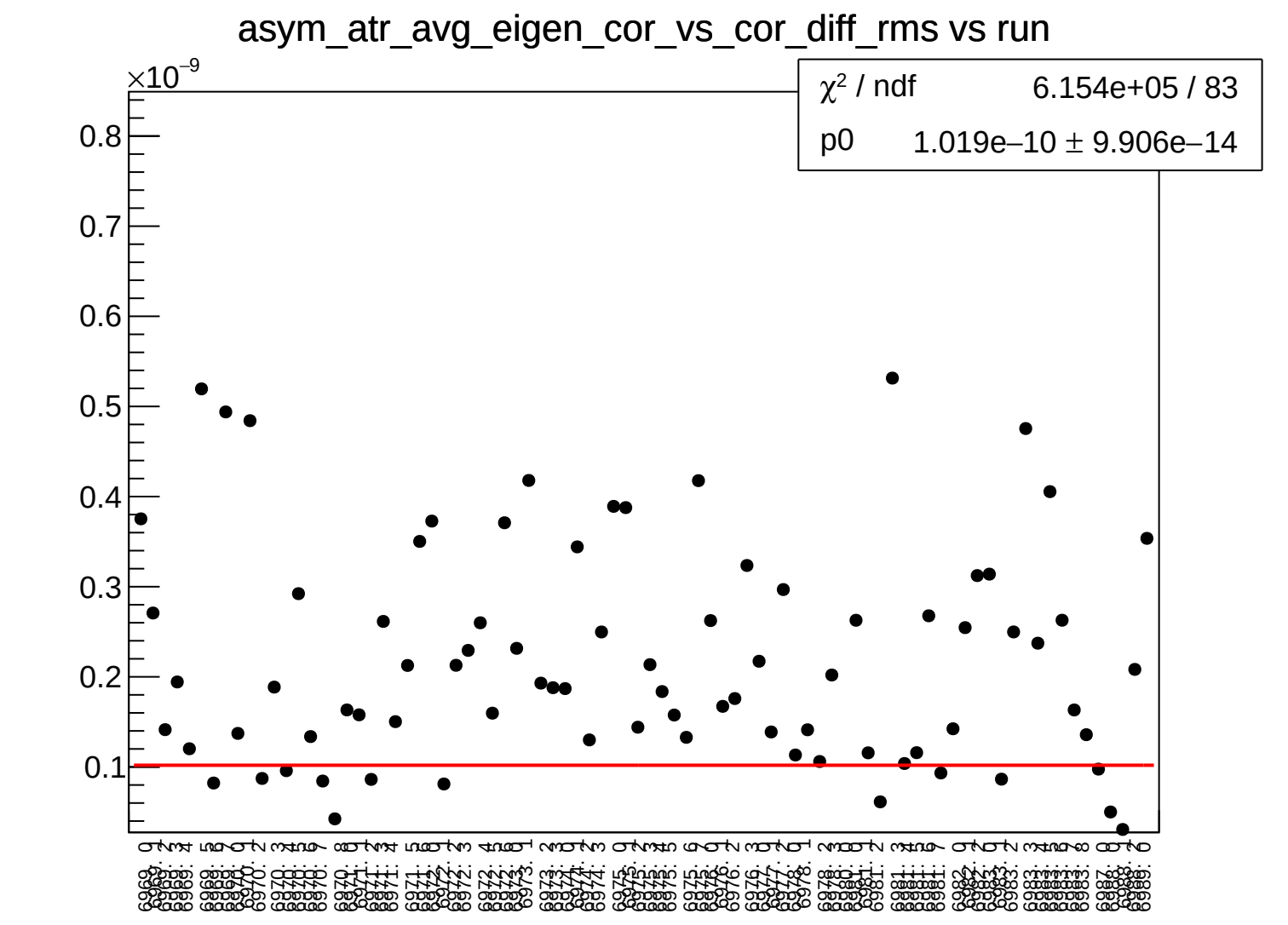

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.122e+05 / 83
p0 424.7 ± 0.3399
1000
800
600
400
200

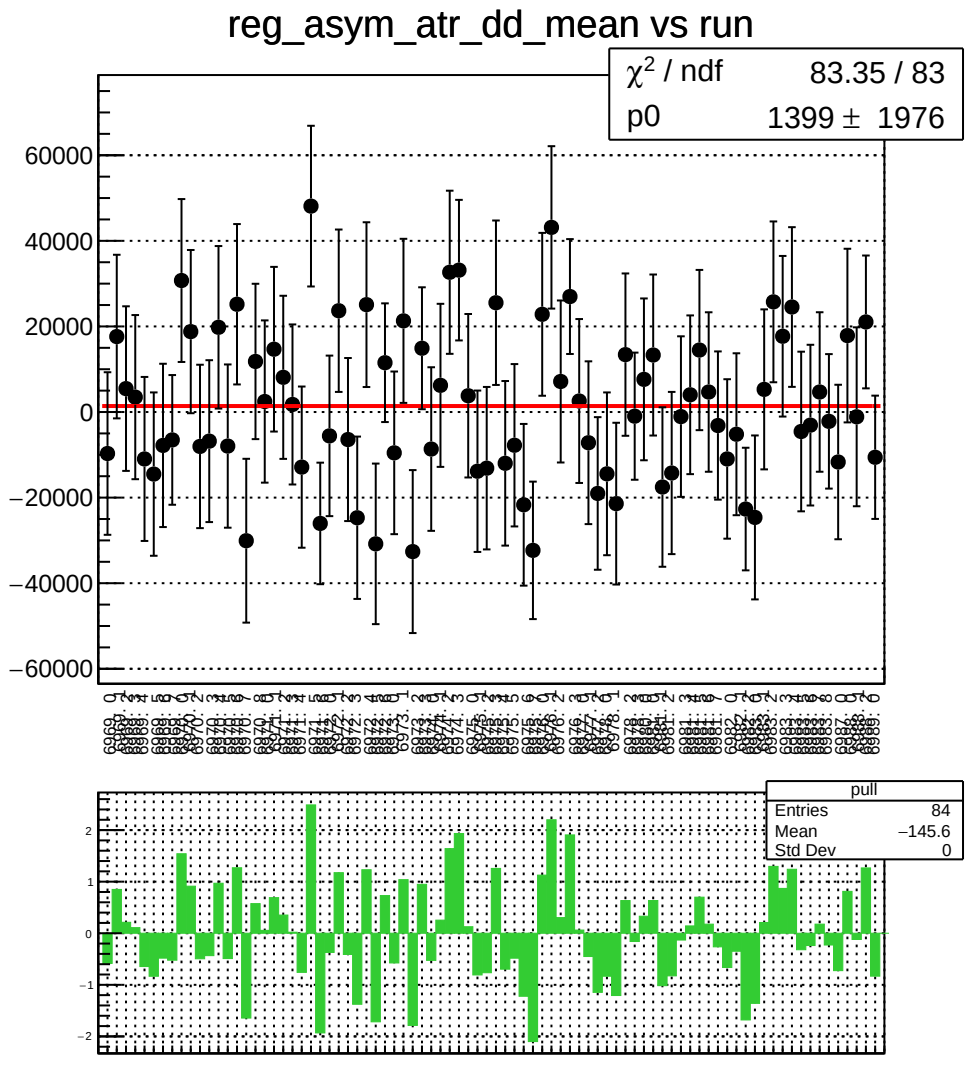

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 83
p0 −0.8435 ± 0.4806
pull
Entries 84
Mean −990.8
Std Dev 0
pull1D
Entries 84
Mean −0.00358
Std Dev 1.097

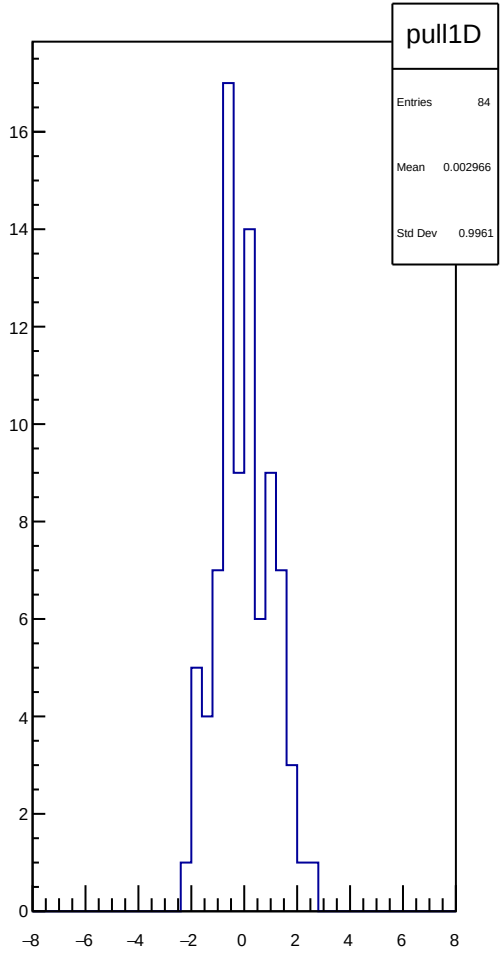

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.122e+05 / 83
p0 424.7 ± 0.3399
1000
800
600
400
200

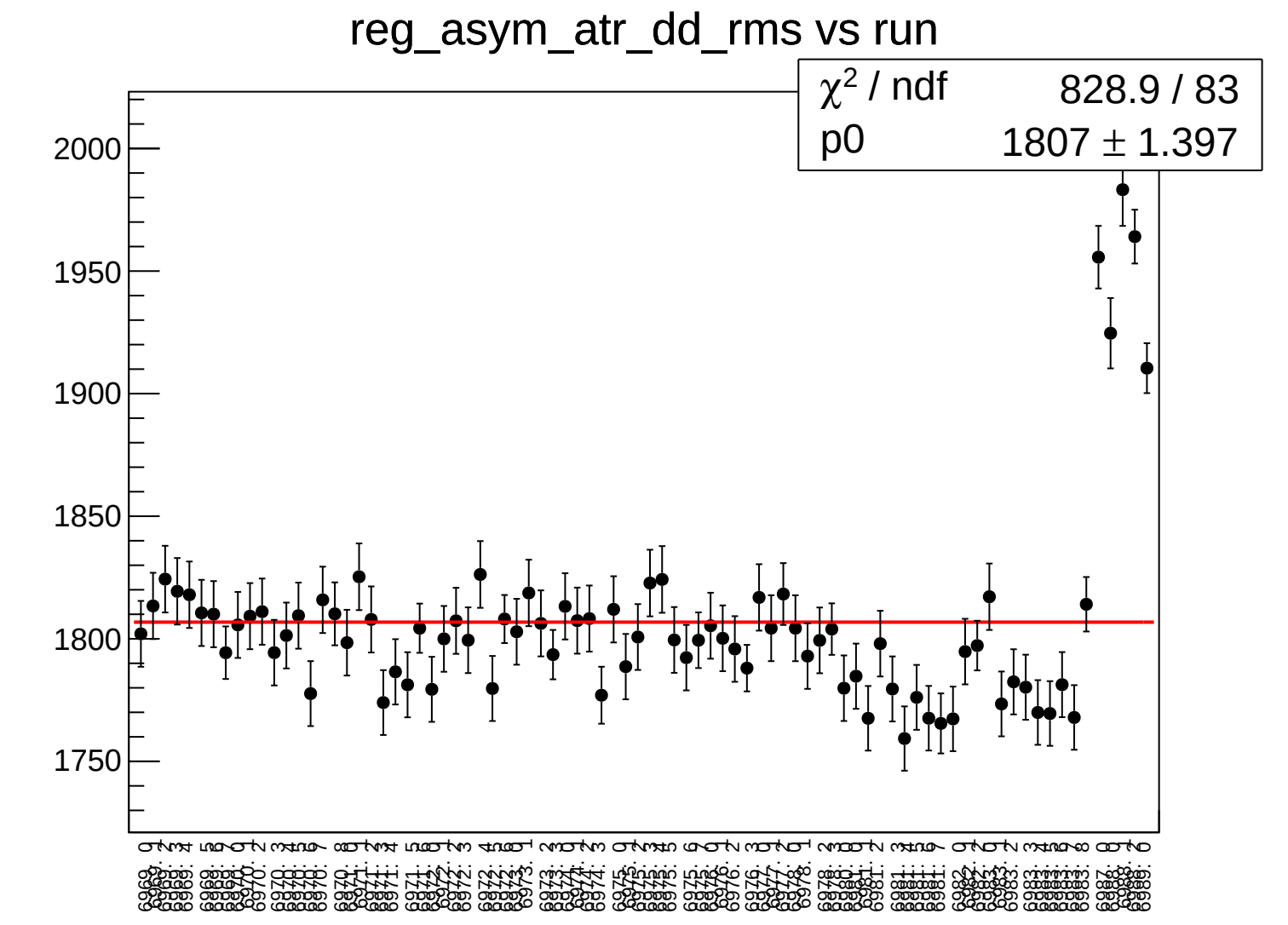

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.41 / 83
p0 4.101e−14 ± 1.401e−13
pull
Entries 84
Mean 29.73
Std Dev 25.52

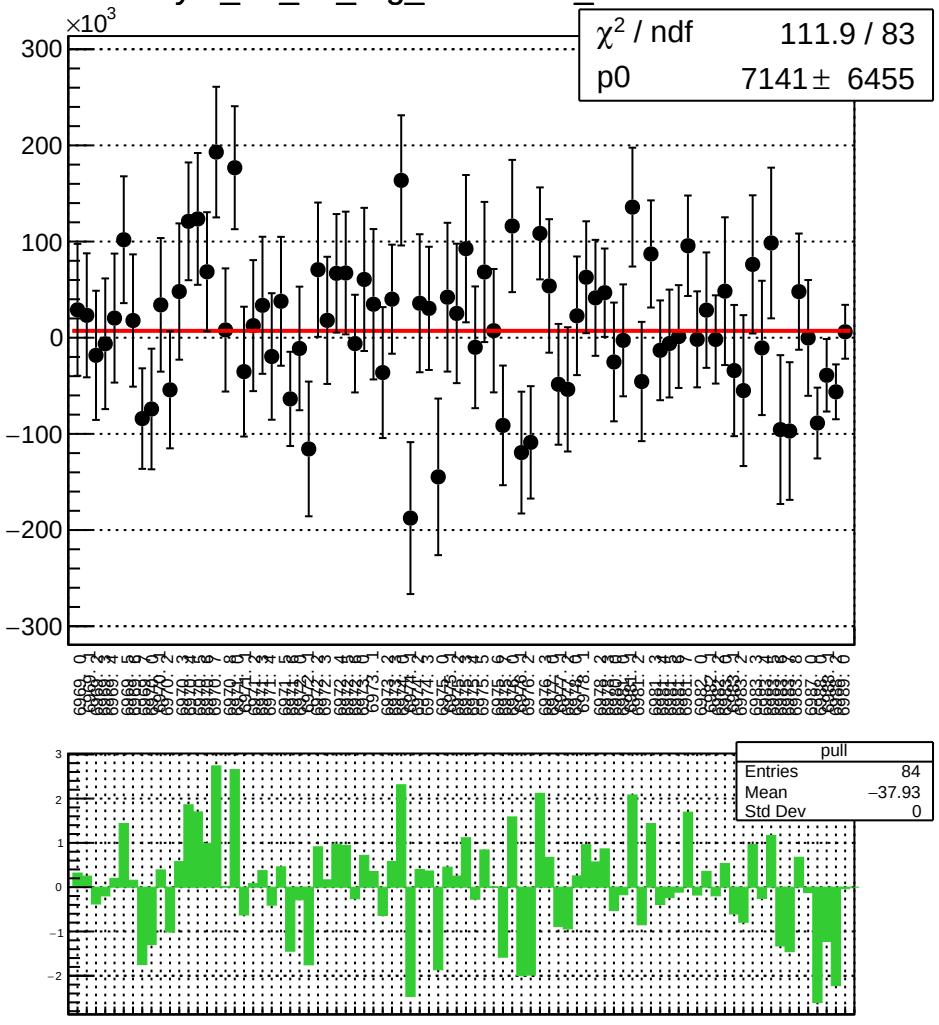

pull1D
Entries 84
Mean 0.1408
Std Dev 1.079

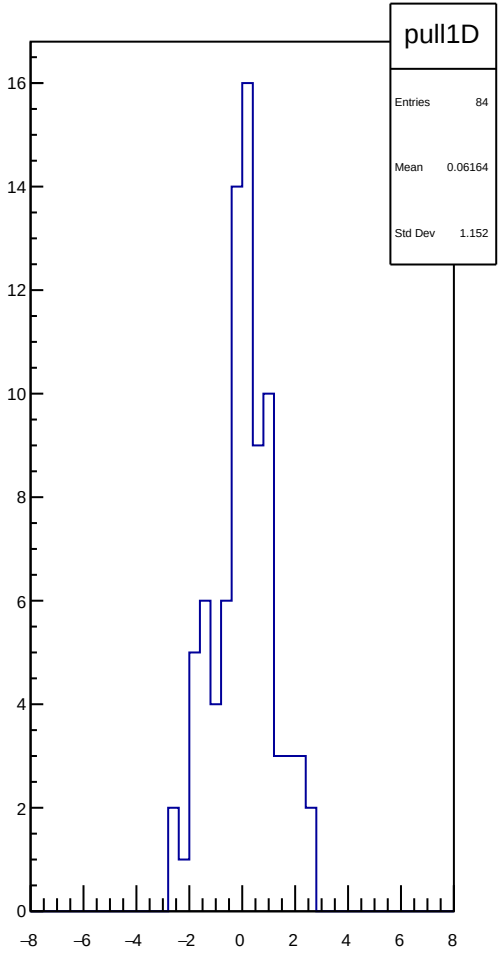

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.154e+05 / 83
p0 1.019e−10 ± 9.906e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

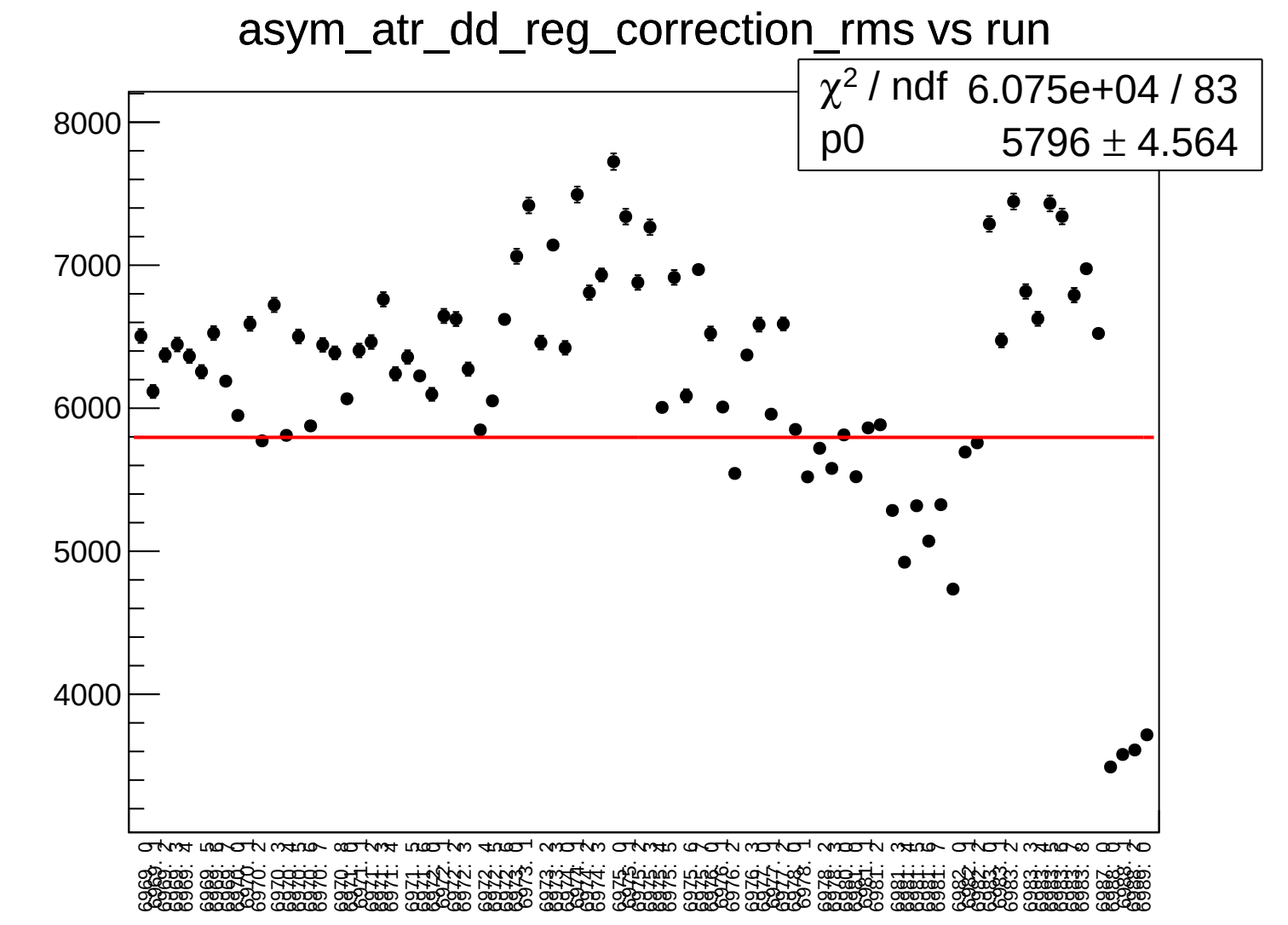

reg_asym_atr_dd_mean vs run
χ^2 / ndf 83.35 / 83
p0 1399 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −145.6
Std Dev 0
2
1
0
−1
−2

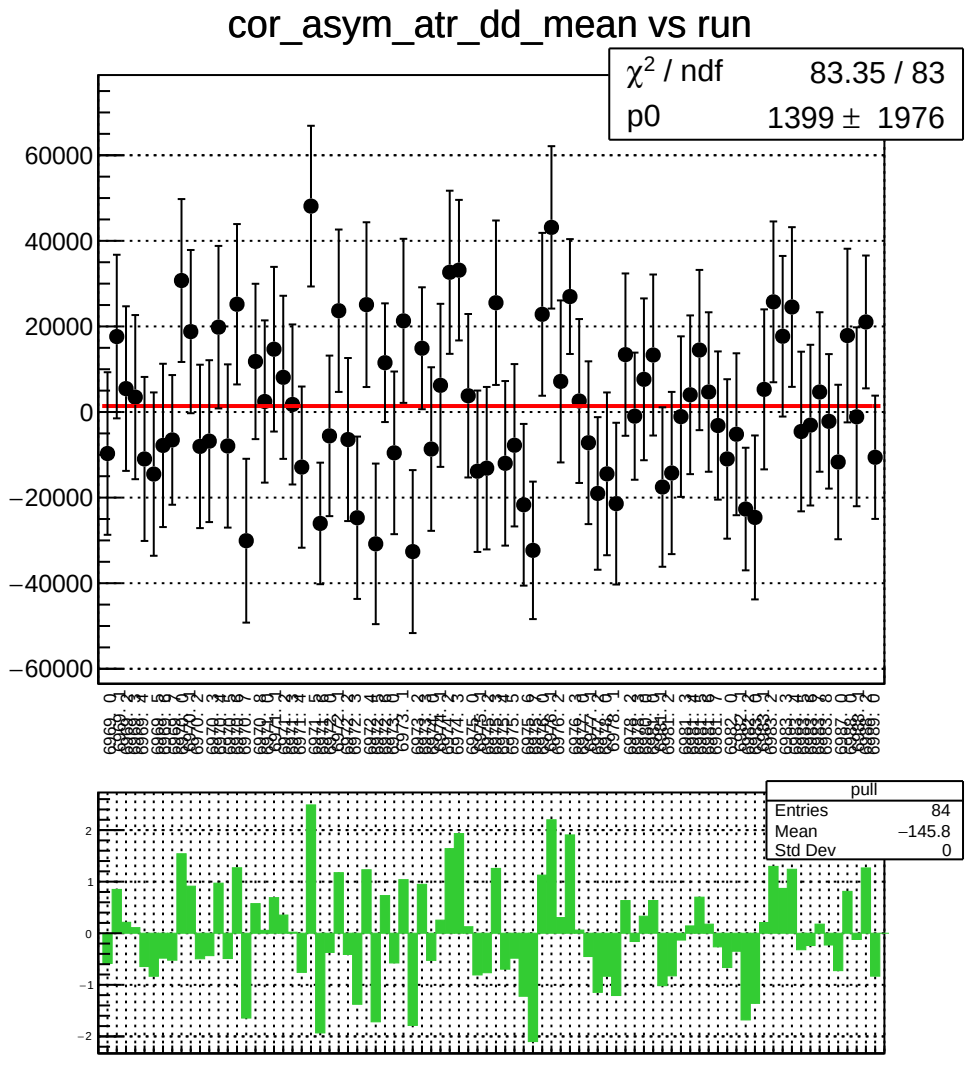

pull1D
Entries 84
Mean 0.002966
Std Dev 0.9961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

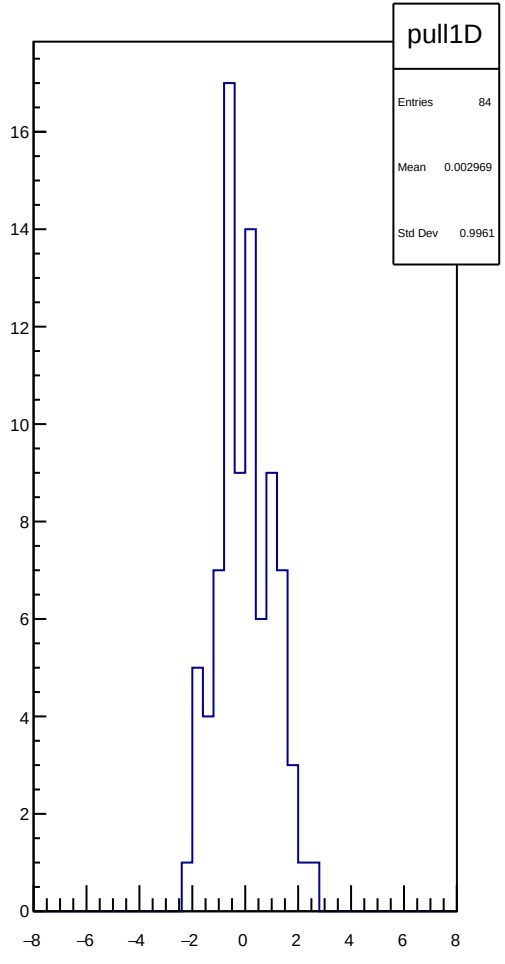

reg_asym_atr_dd_rms vs run
χ² / ndf 828.9 / 83
p0 1807 ± 1.397
2000
1950
1900
1850
1800
1750

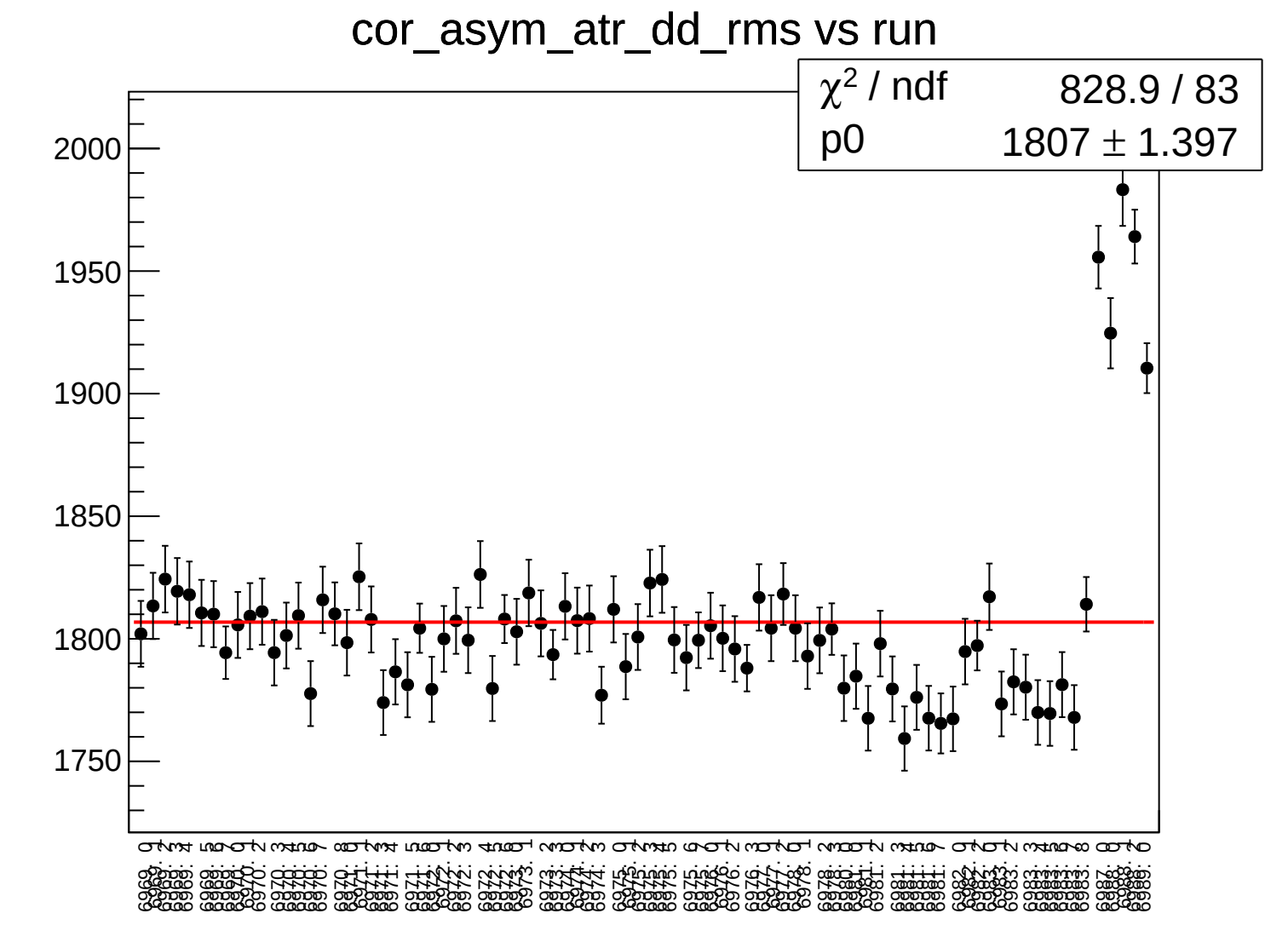

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 111.9 / 83
p0 7141 ± 6455
pull
Entries 84
Mean −37.93
Std Dev 0

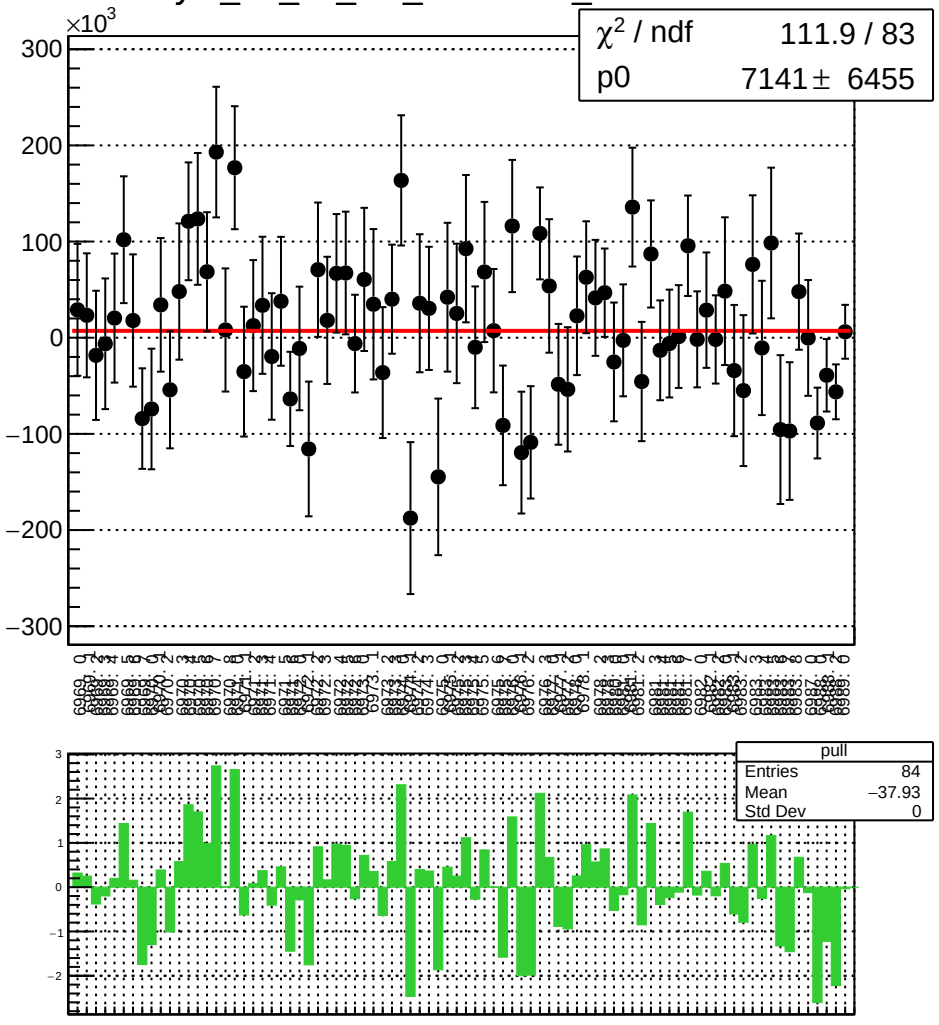

pull1D
Entries 84
Mean 0.06164
Std Dev 1.152

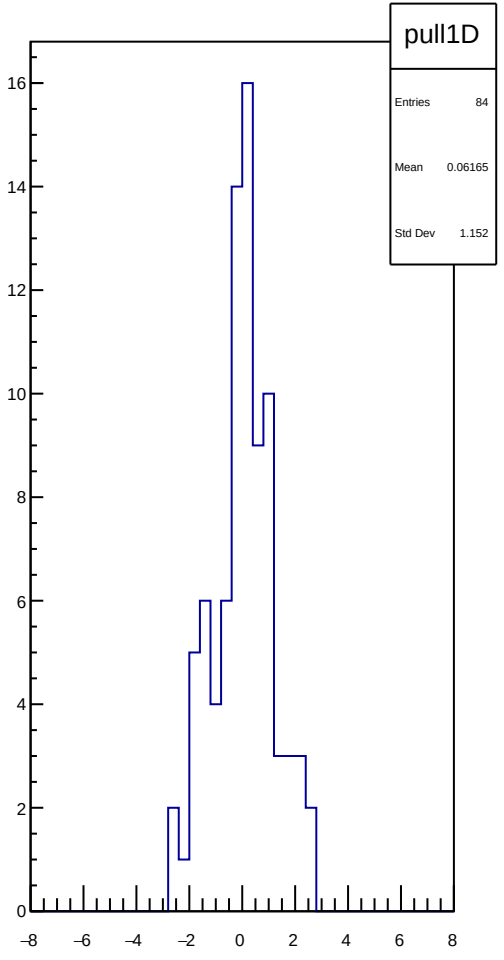

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 6.075e+04 / 83
p0 5796 ± 4.564
8000
7000
6000
5000
4000

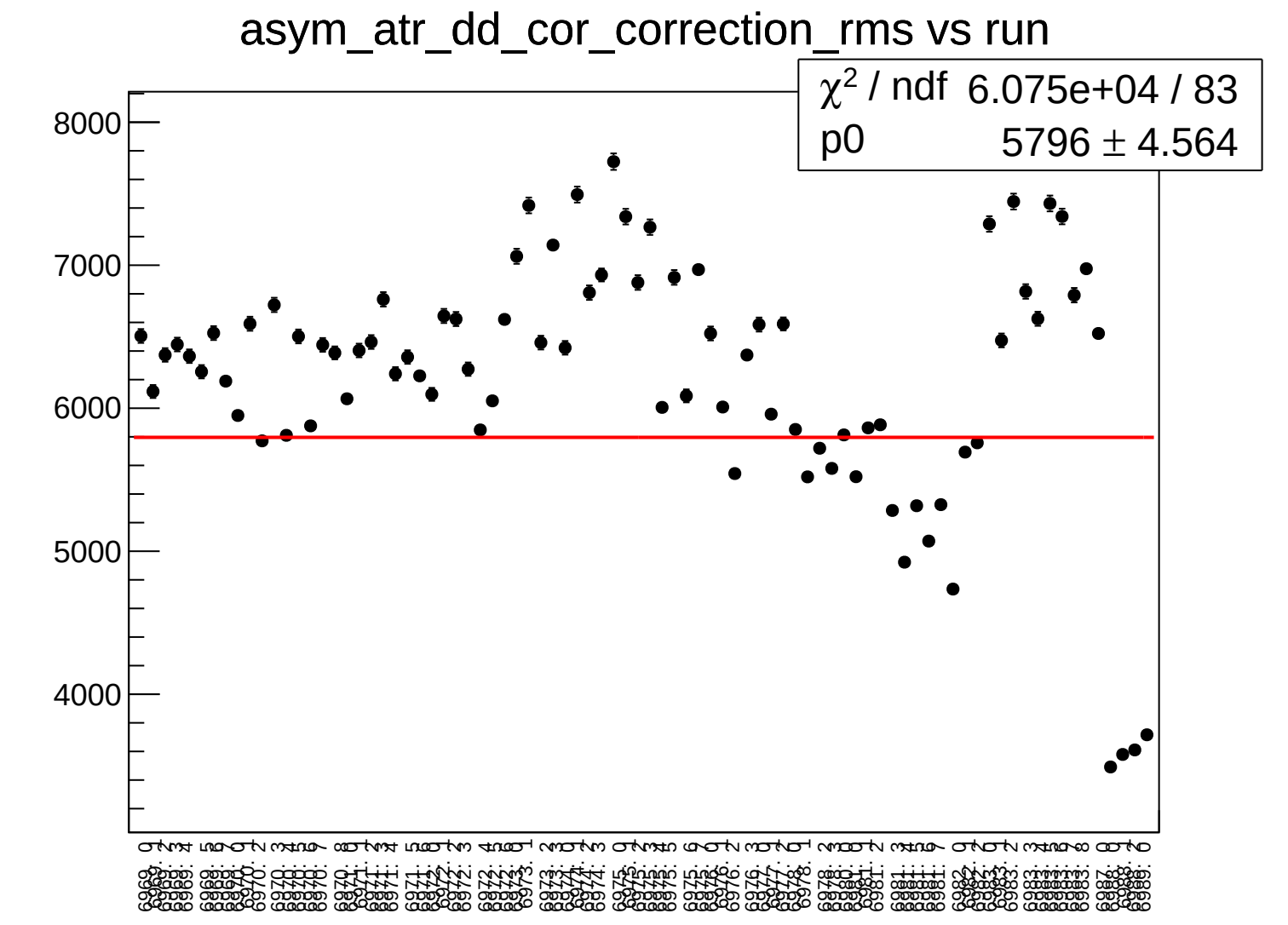

cor_asym_atr_dd_mean vs run
χ² / ndf 83.35 / 83
p0 1399 ± 1976
pull
Entries 84
Mean −145.8
Std Dev 0

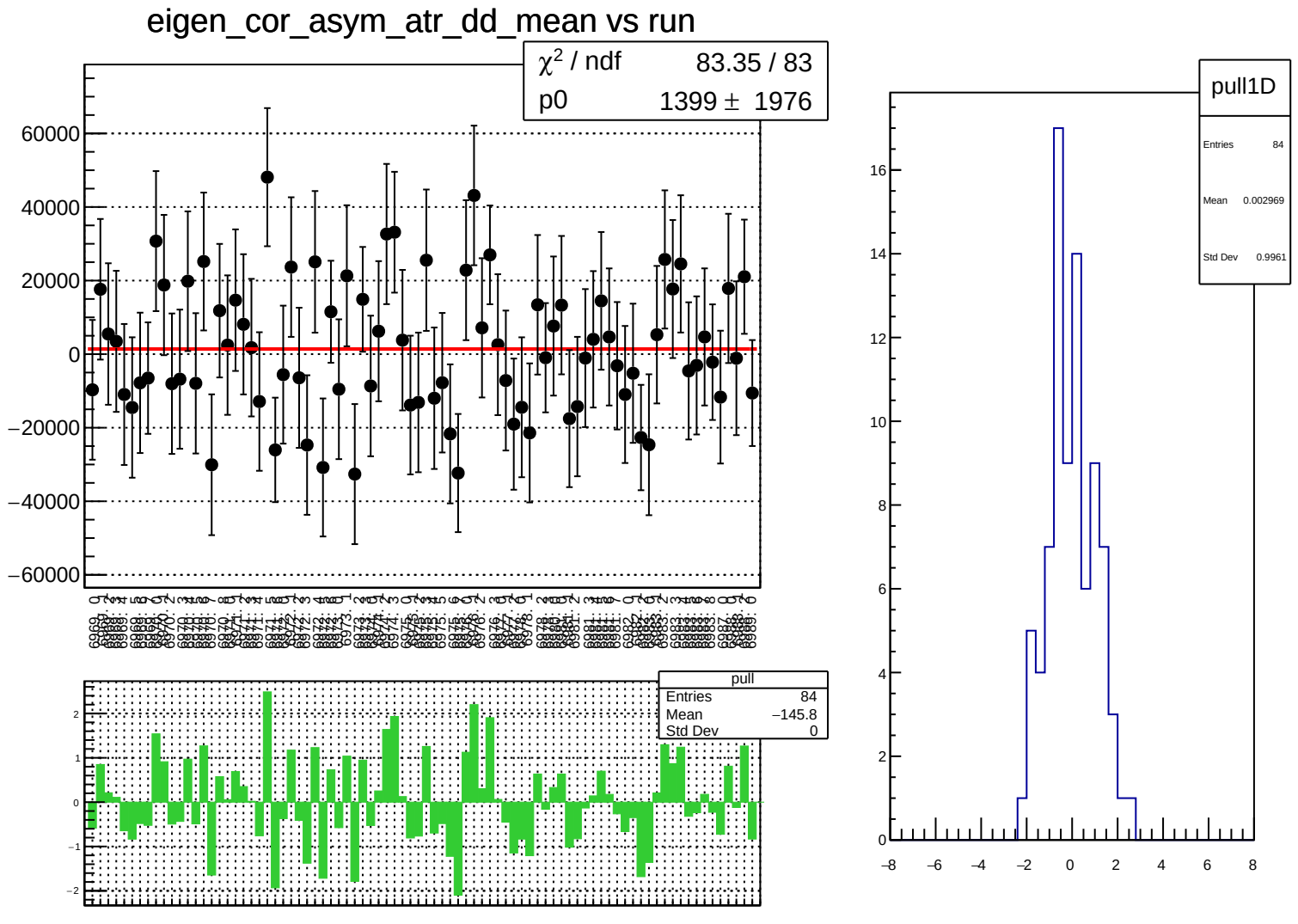

pull1D
Entries 84
Mean 0.002969
Std Dev 0.9961

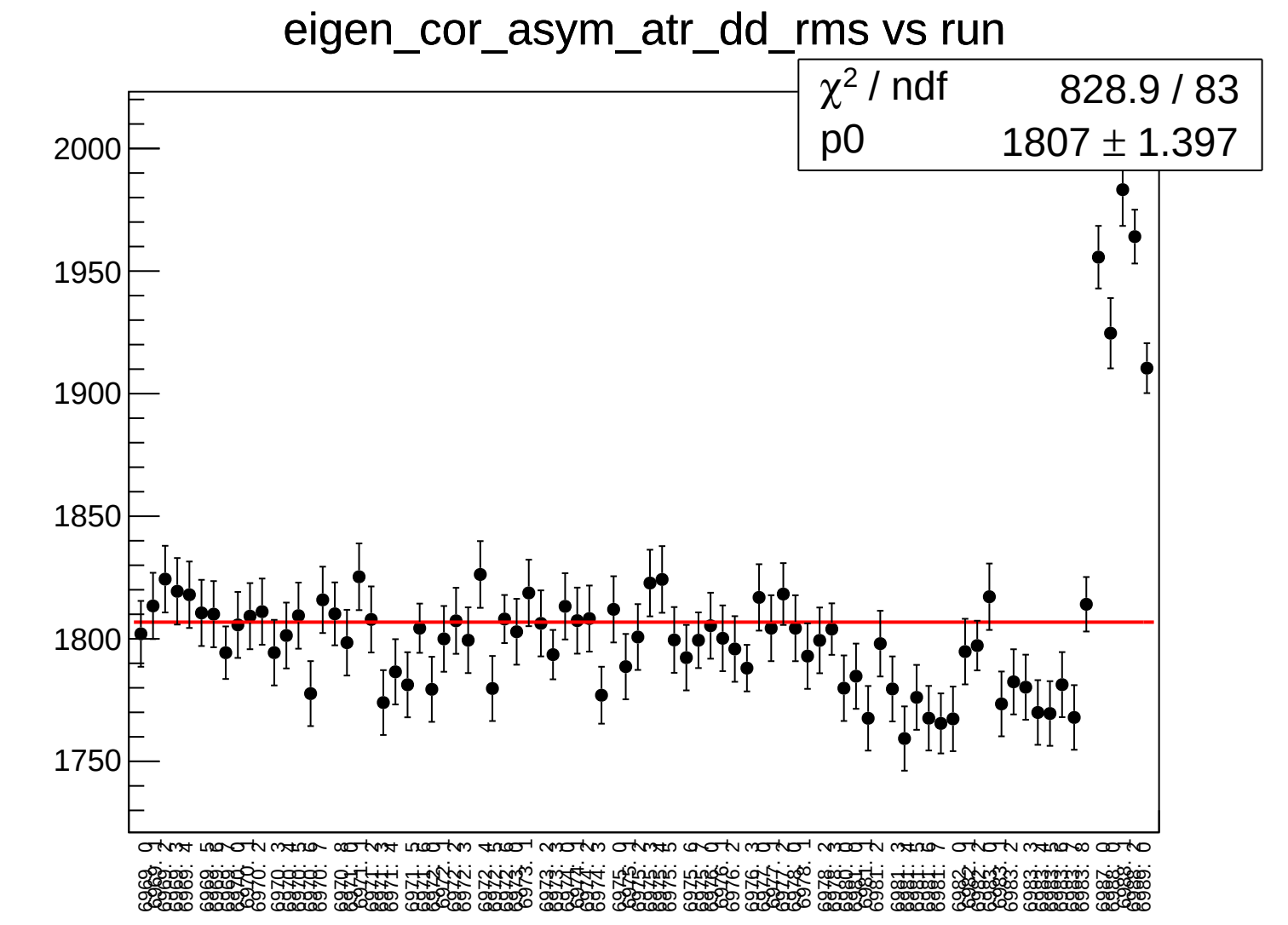

cor_asym_atr_dd_rms vs run
χ² / ndf 828.9 / 83
p0 1807 ± 1.397
2000
1950
1900
1850
1800
1750

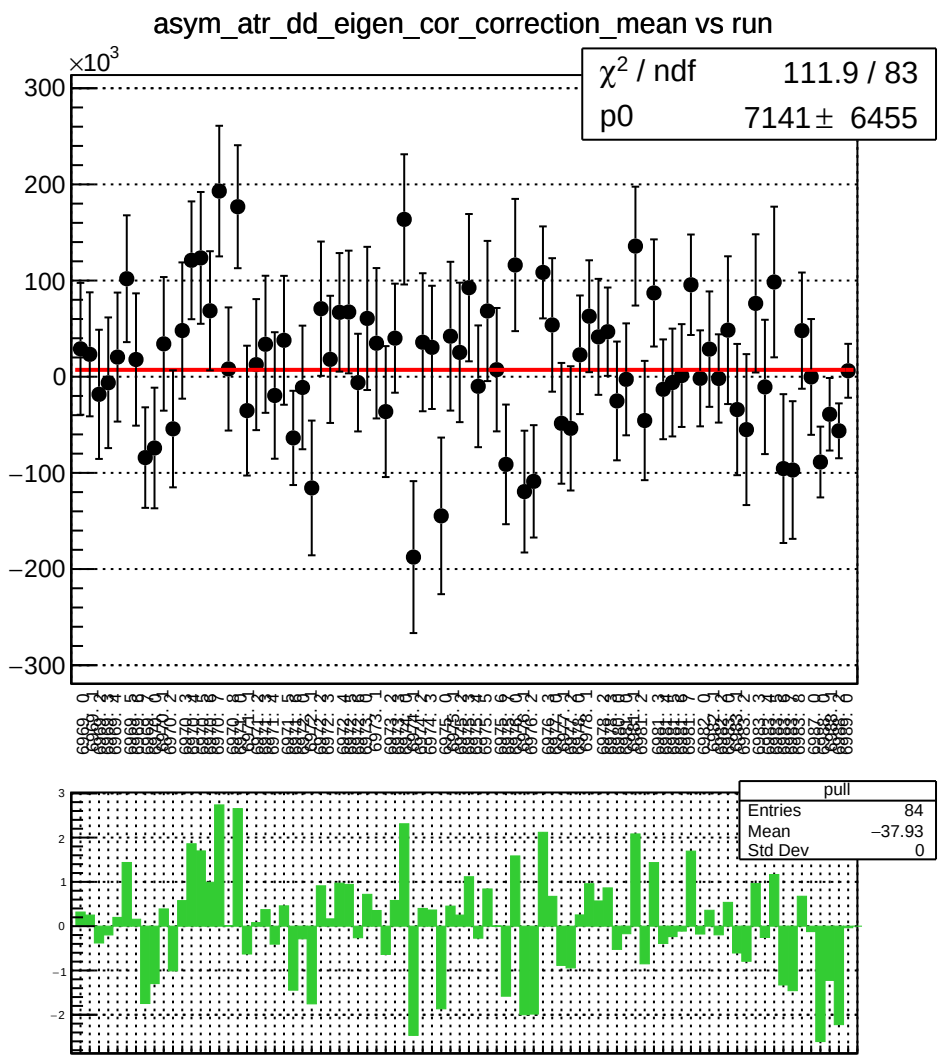

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 111.9 / 83
p0 7141 ± 6455
pull
Entries 84
Mean −37.93
Std Dev 0

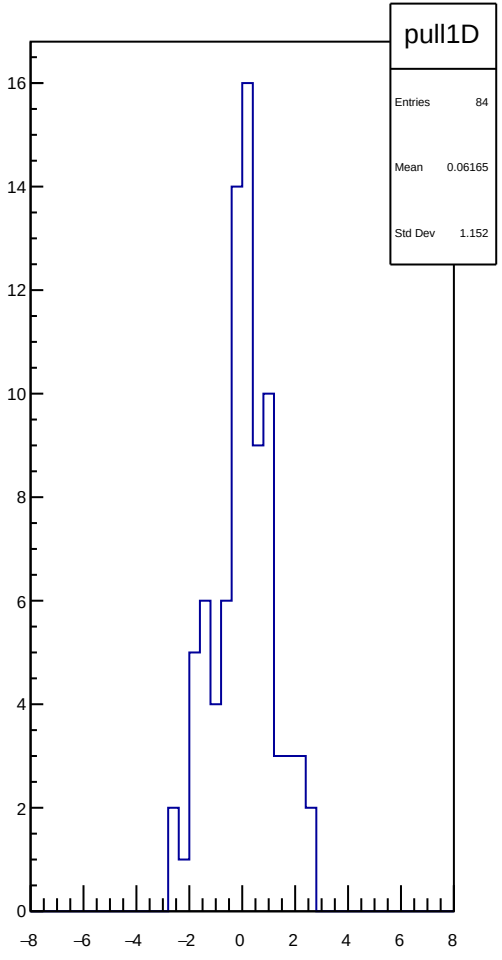

pull1D
Entries 84
Mean 0.06165
Std Dev 1.152

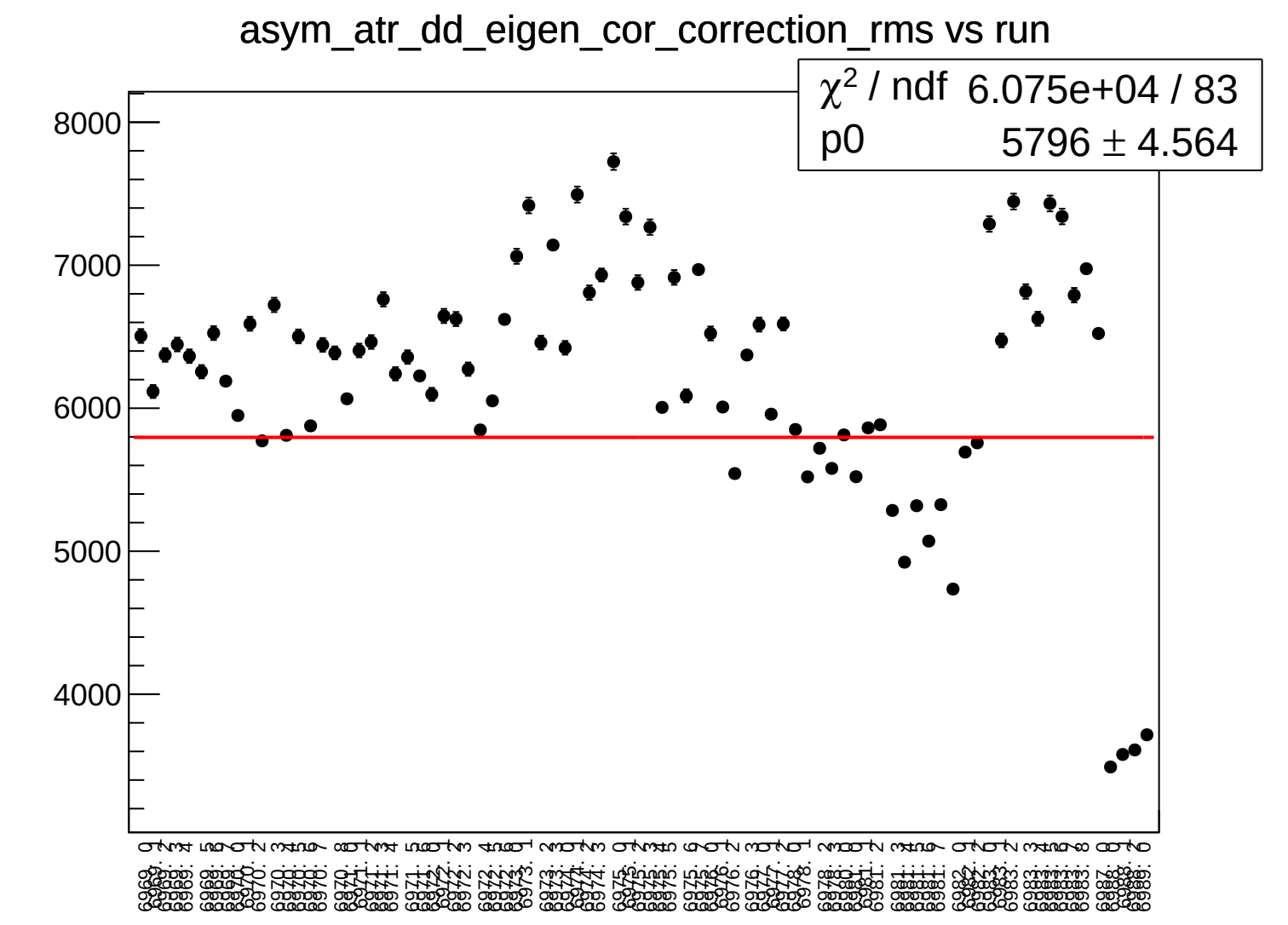

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 6.075e+04 / 83
p0 5796 ± 4.564
8000
7000
6000
5000
4000

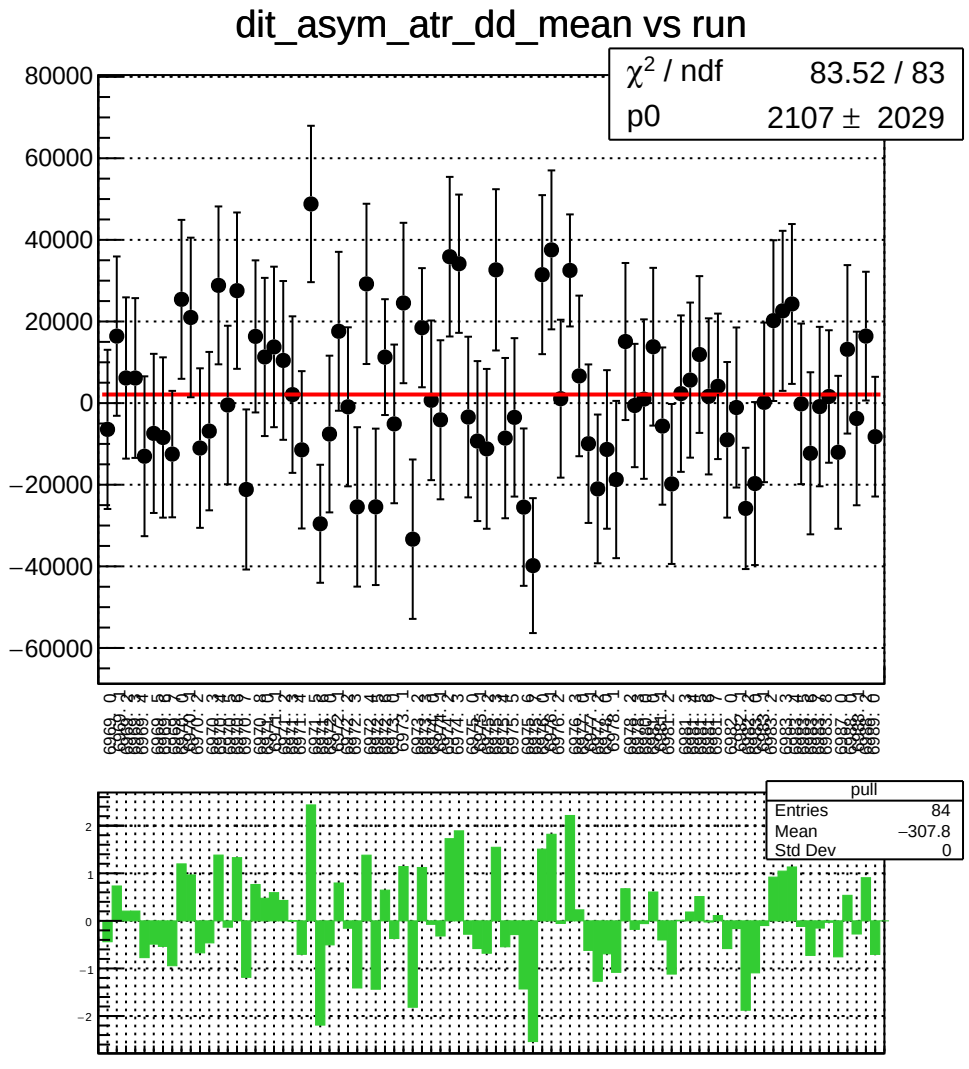

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 83.35 / 83
p0 1399 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −145.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.002969
Std Dev 0.9961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

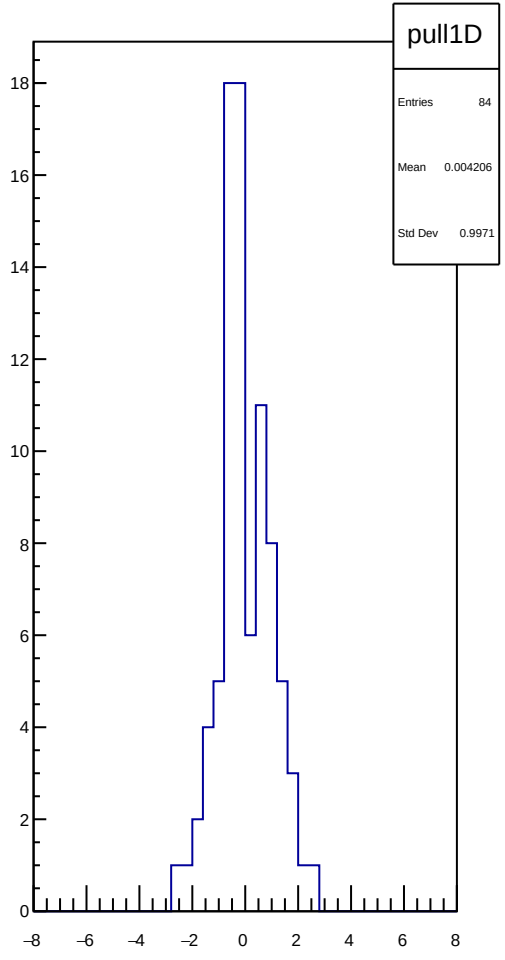

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 828.9 / 83
p0 1807 ± 1.397
2000
1950
1900
1850
1800
1750

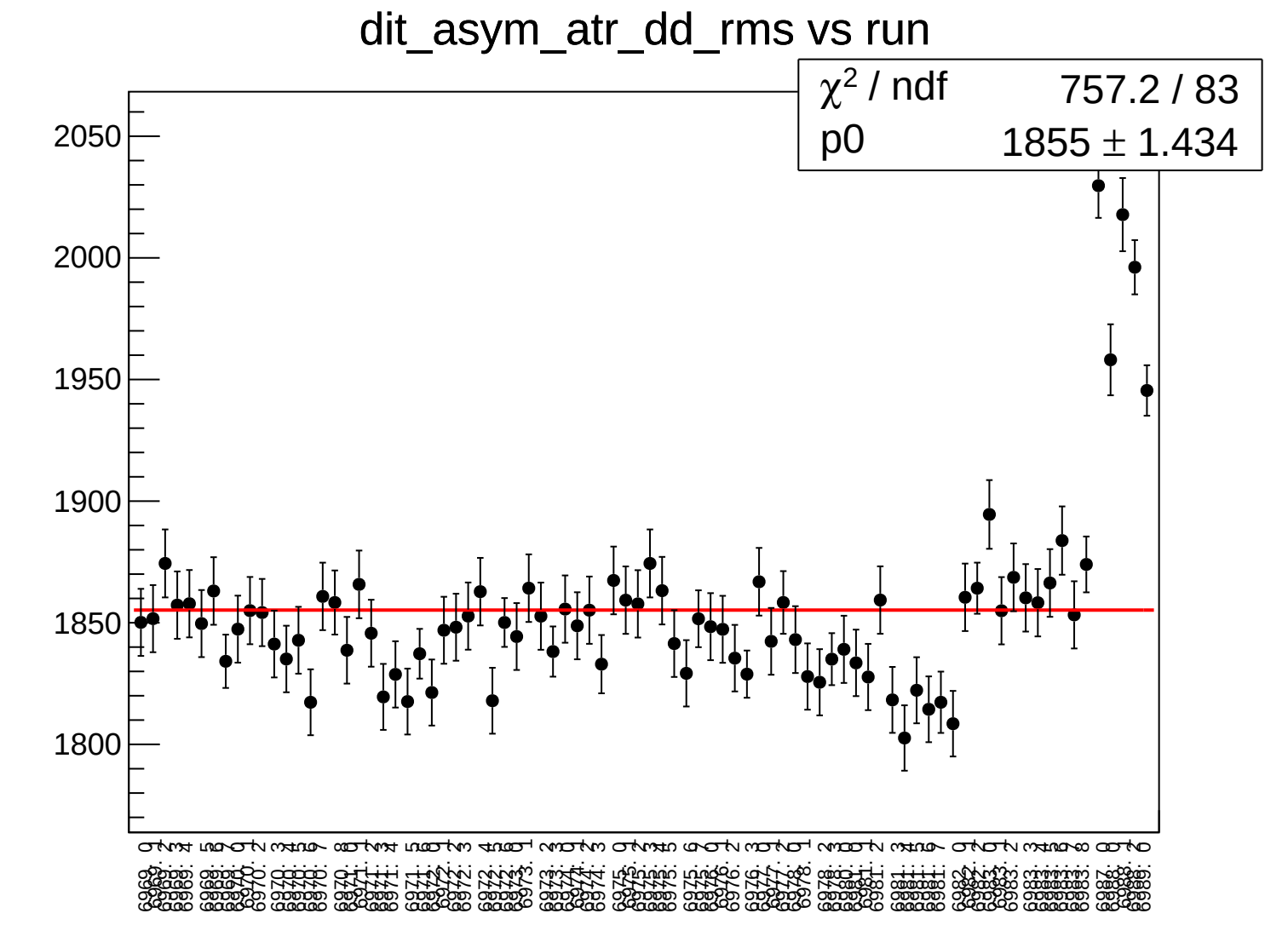

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 111.9 / 83
p0 7141 ± 6455
pull
Entries 84
Mean −37.93
Std Dev 0

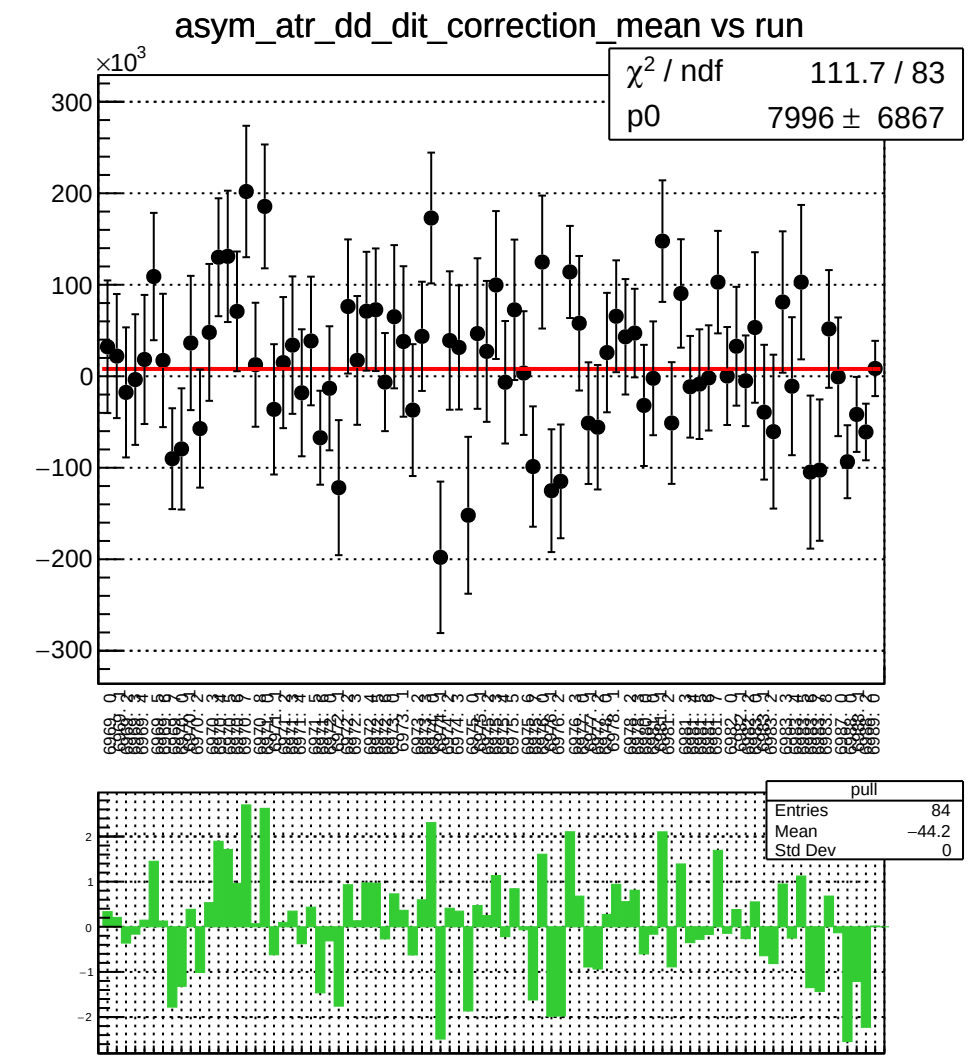

pull1D
Entries 84
Mean 0.06165
Std Dev 1.152

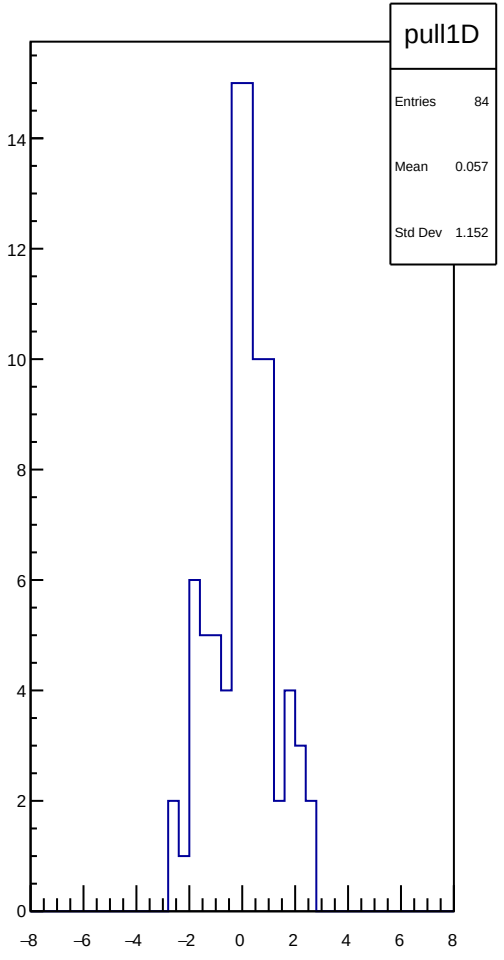

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.075e+04 / 83
p0 5796 ± 4.564
8000
7000
6000
5000
4000

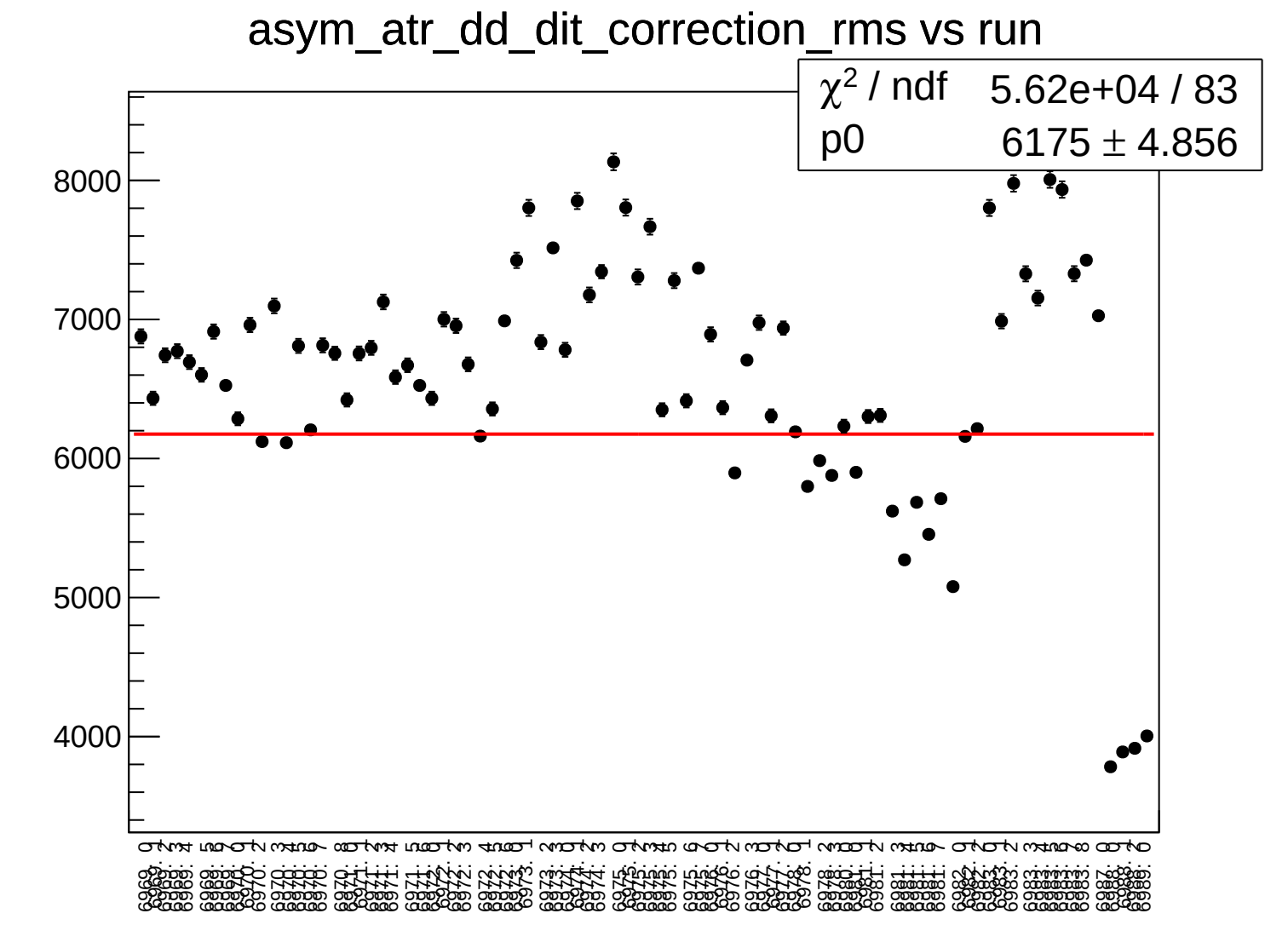

dit_asym_atr_dd_mean vs run
χ² / ndf 83.52 / 83
p0 2107 ± 2029
pull
Entries 84
Mean −307.8
Std Dev 0

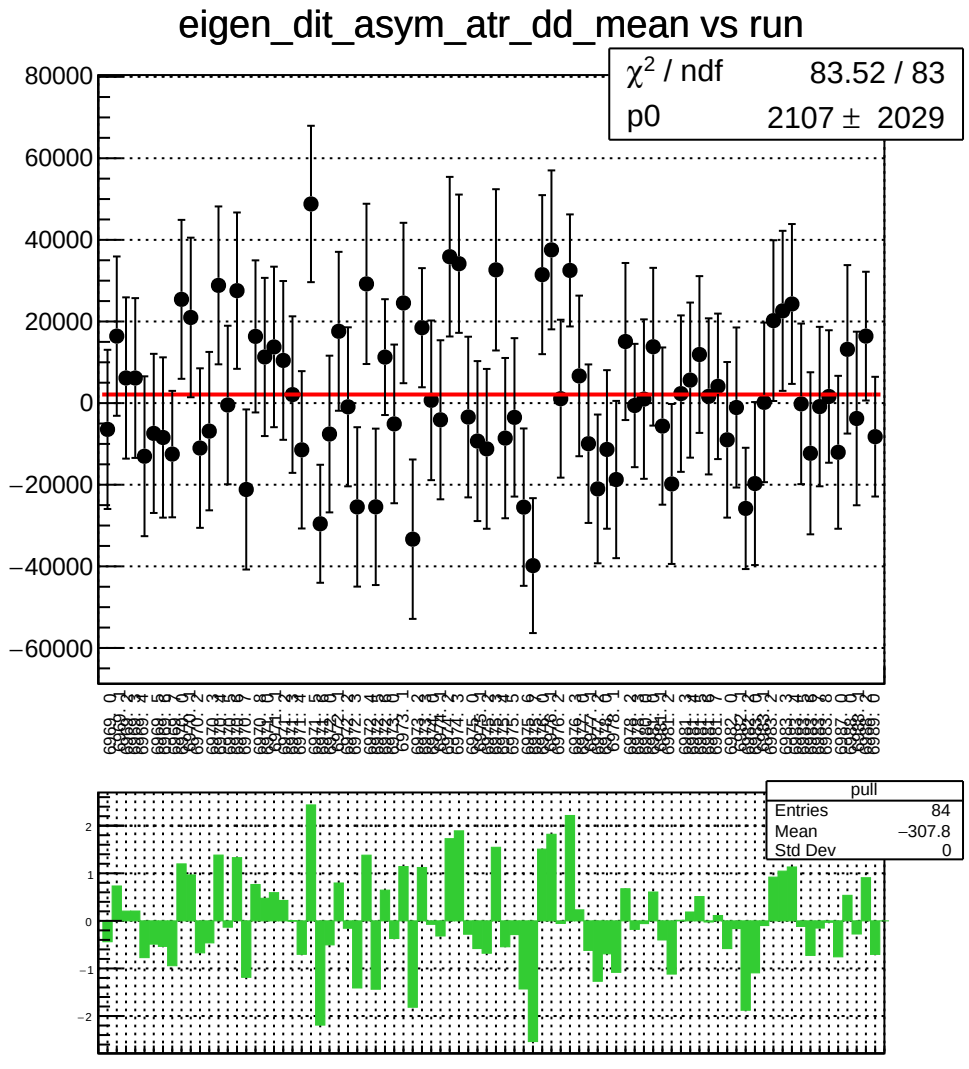

pull1D
Entries 84
Mean 0.004206
Std Dev 0.9971

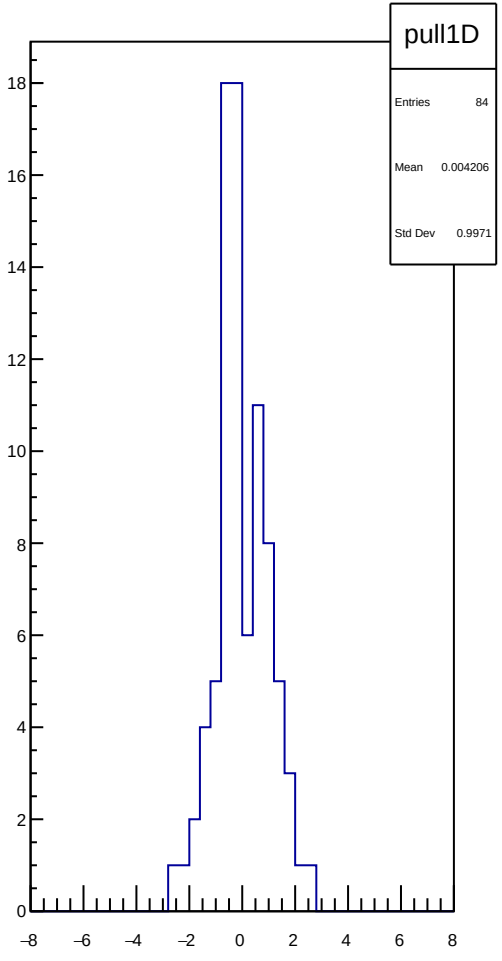

dit_asym_atr_dd_rms vs run
χ² / ndf 757.2 / 83
p0 1855 ± 1.434
2050
2000
1950
1900
1850
1800

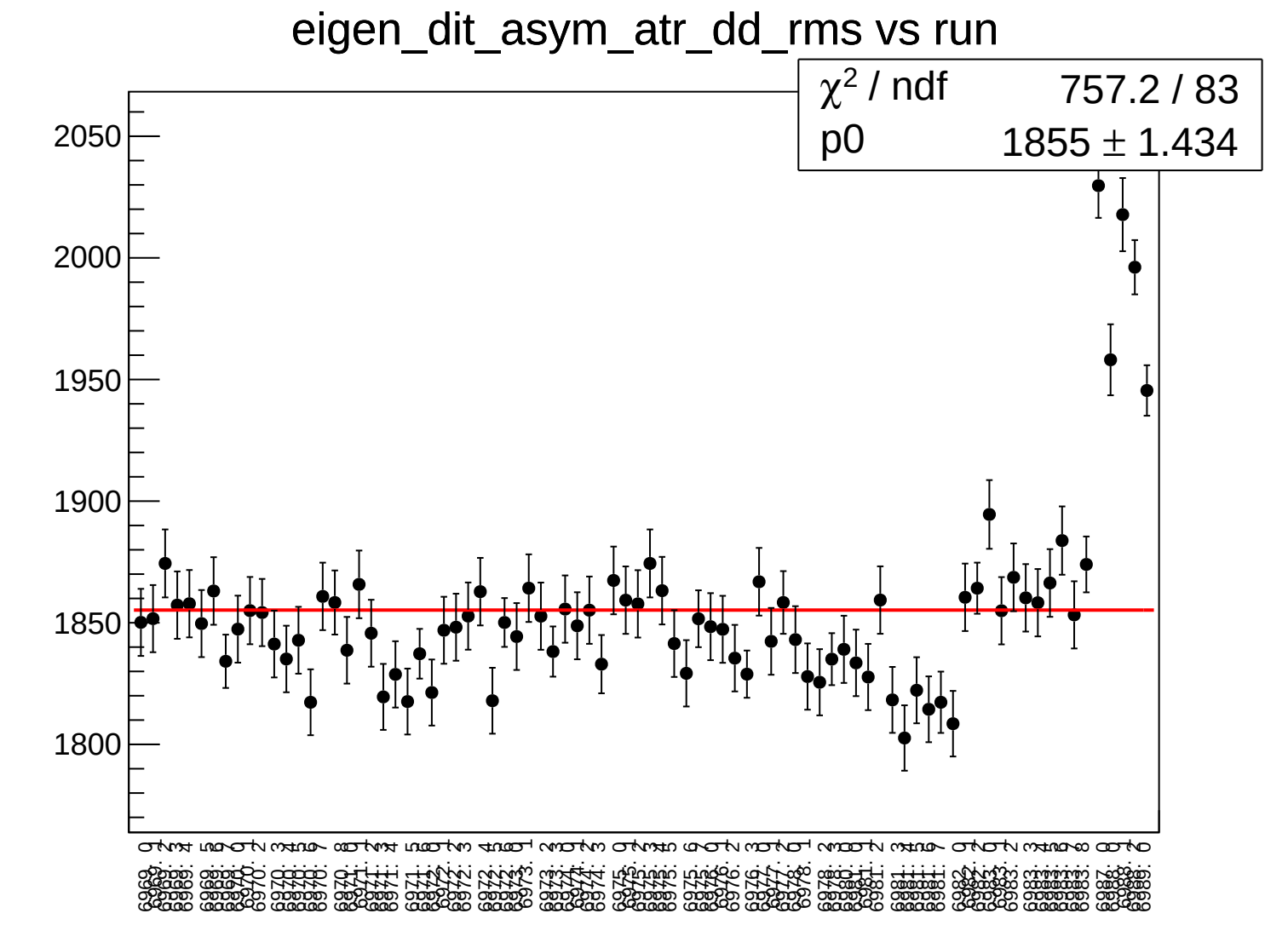

asym_atr_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 111.7 / 83
p0 7996 ± 6867
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −44.2
Std Dev 0
2
1
0
−1
−2

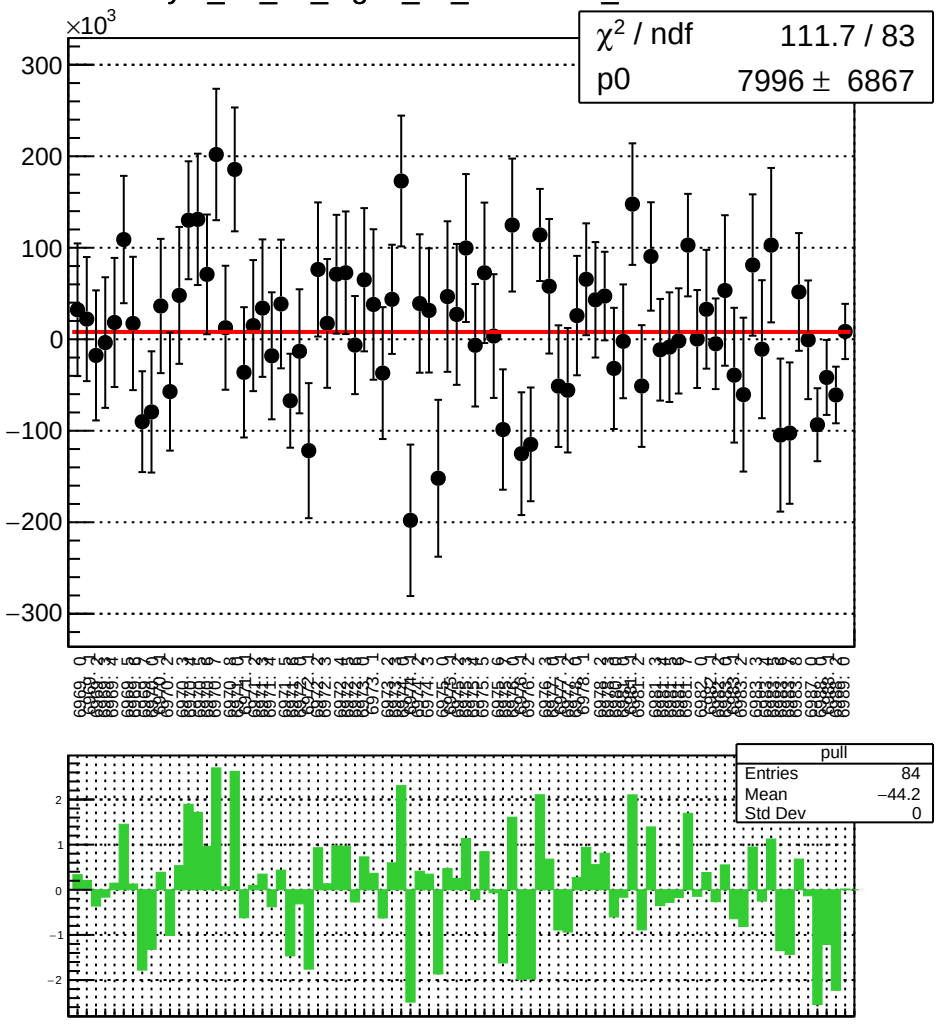

pull1D
Entries 84
Mean 0.057
Std Dev 1.152
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

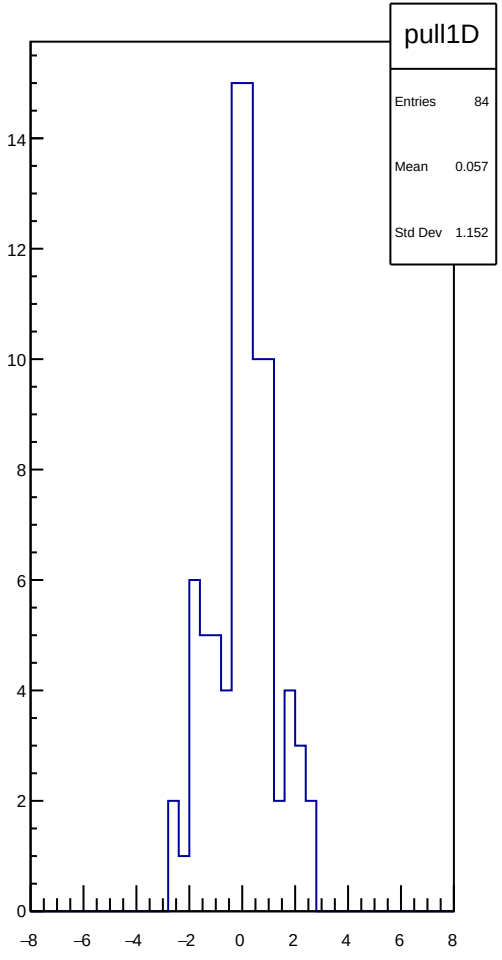

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 5.62e+04 / 83
p0 6175 ± 4.856
8000
7000
6000
5000
4000

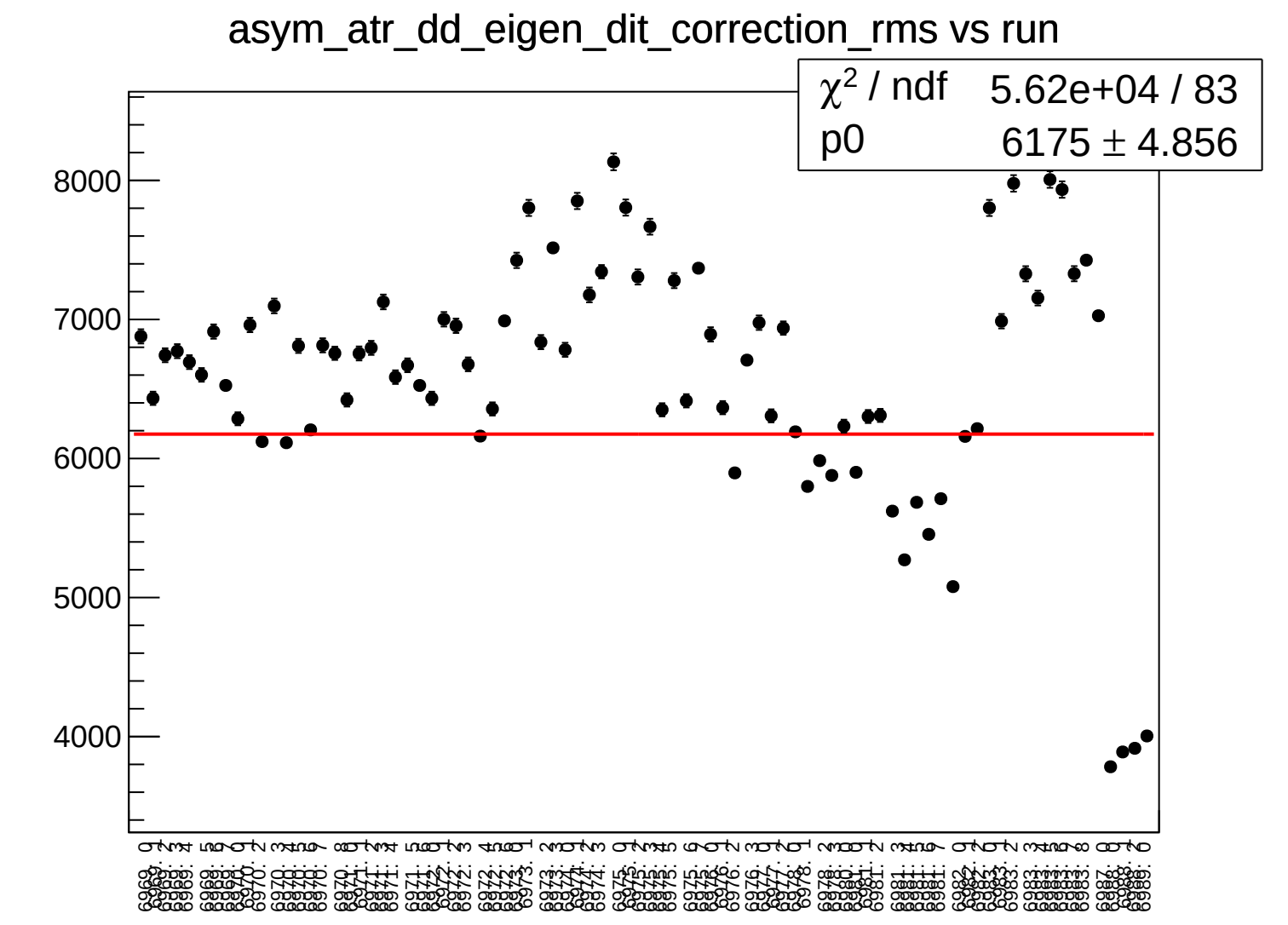

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 83.52 / 83
p0 2107 ± 2029
pull
Entries 84
Mean −307.8
Std Dev 0

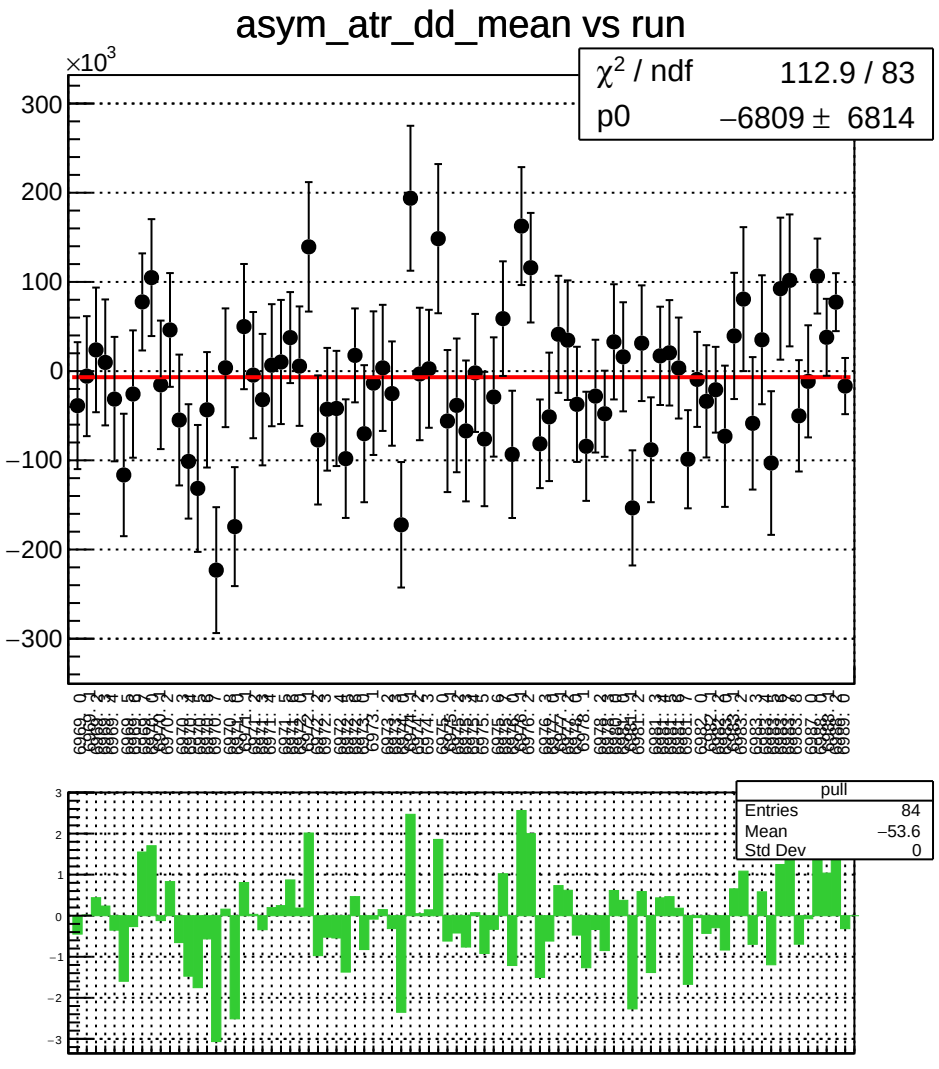

pull1D
Entries 84
Mean 0.004206
Std Dev 0.9971

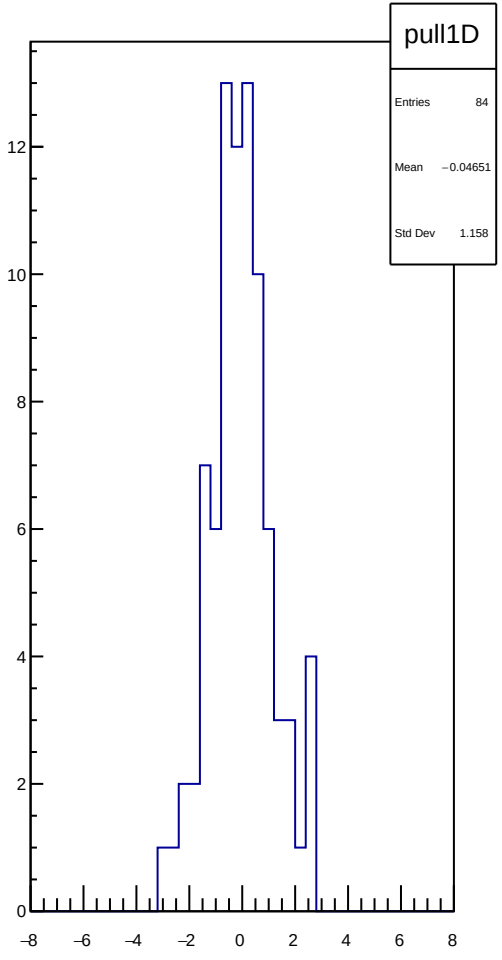

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 757.2 / 83
p0 1855 ± 1.434
2050
2000
1950
1900
1850
1800

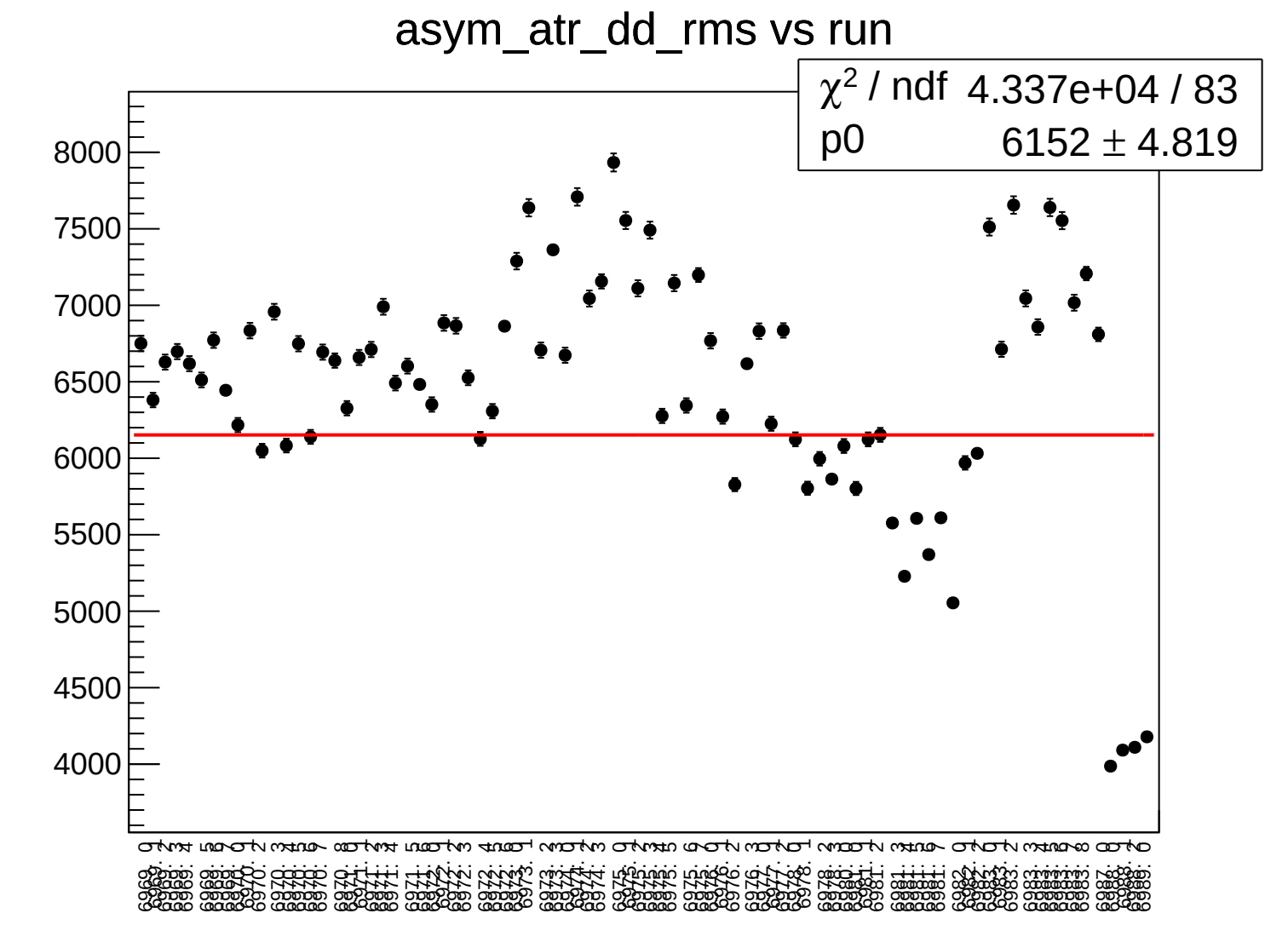

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 111.7 / 83
p0 7996 ± 6867
pull
Entries 84
Mean −44.2
Std Dev 0

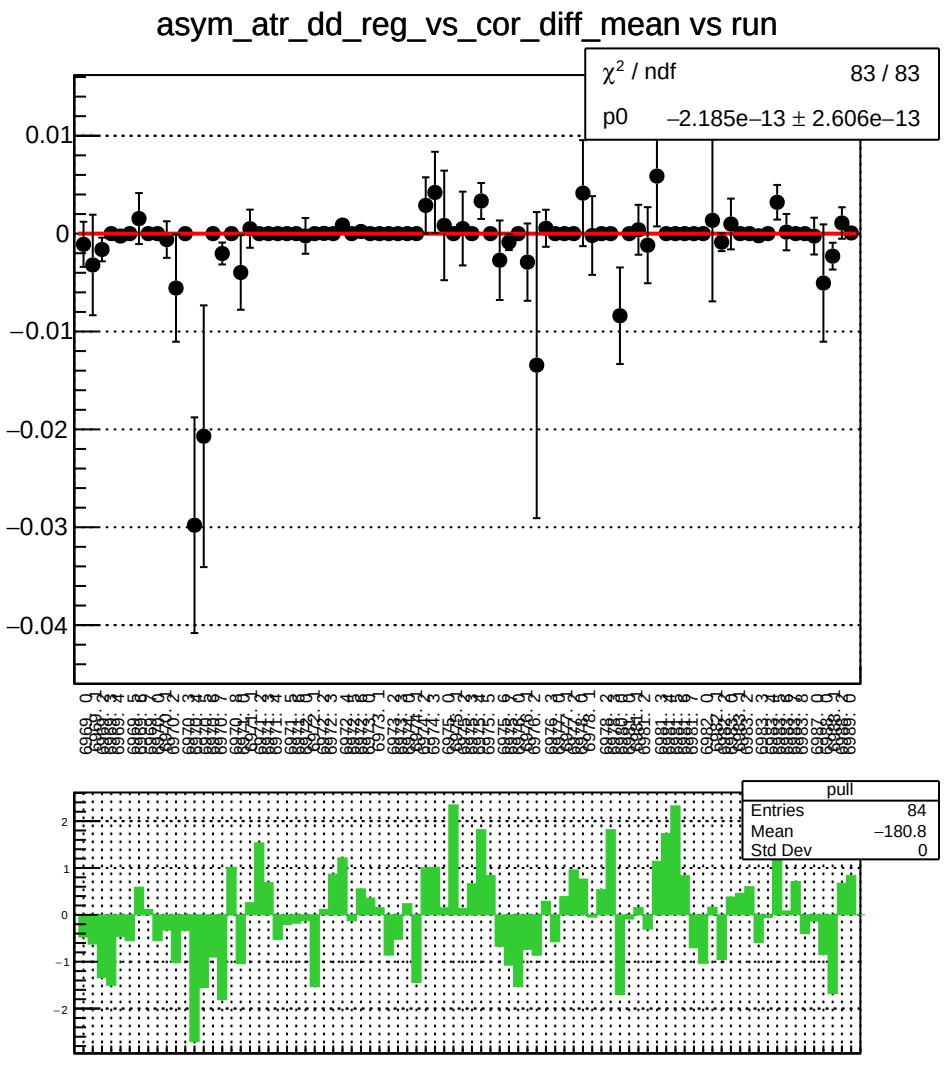

pull1D
Entries 84
Mean 0.057
Std Dev 1.152

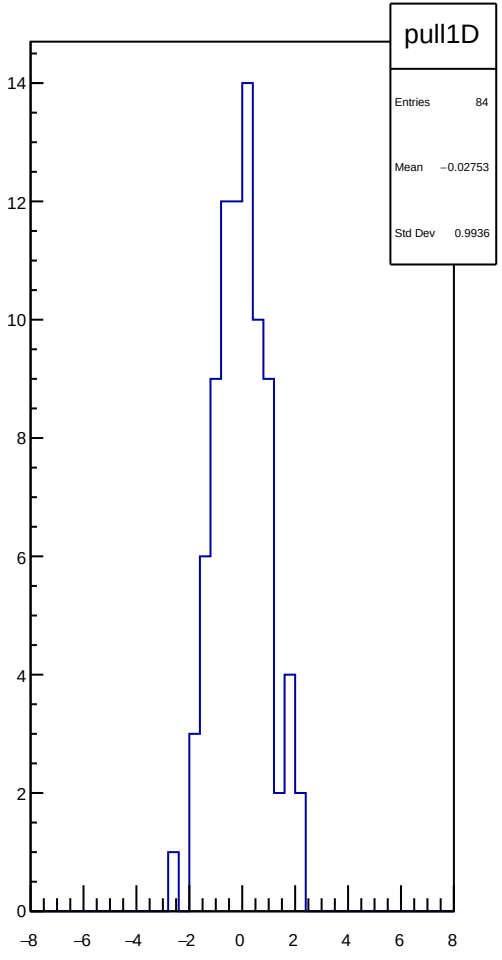

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.62e+04 / 83
p0 6175 ± 4.856
8000
7000
6000
5000
4000

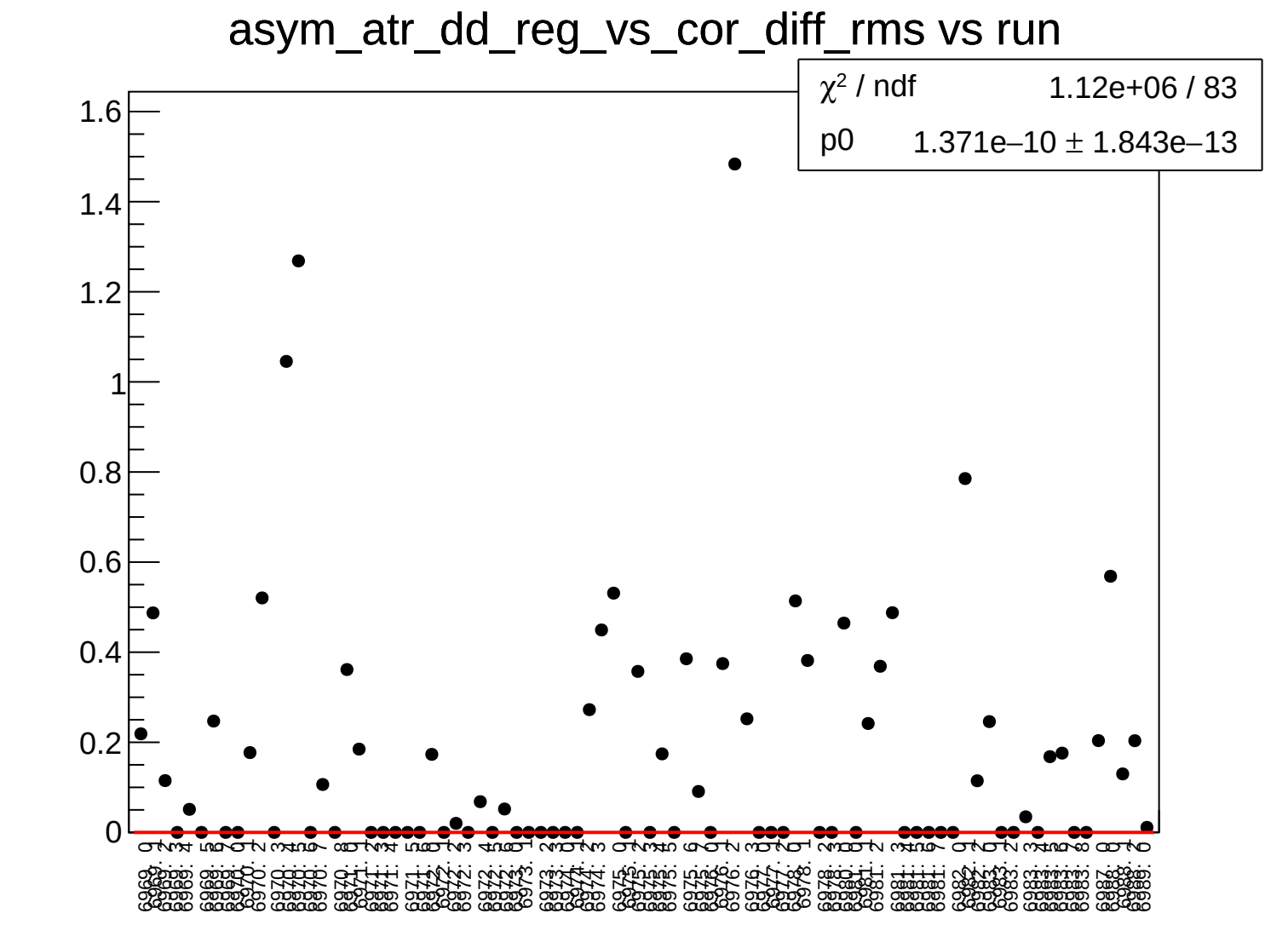

asym_atr_dd_mean vs run
×10^3
χ² / ndf 112.9 / 83
p0 −6809 ± 6814
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −53.6
Std Dev 0
3
2
1
0
−1
−2
−3

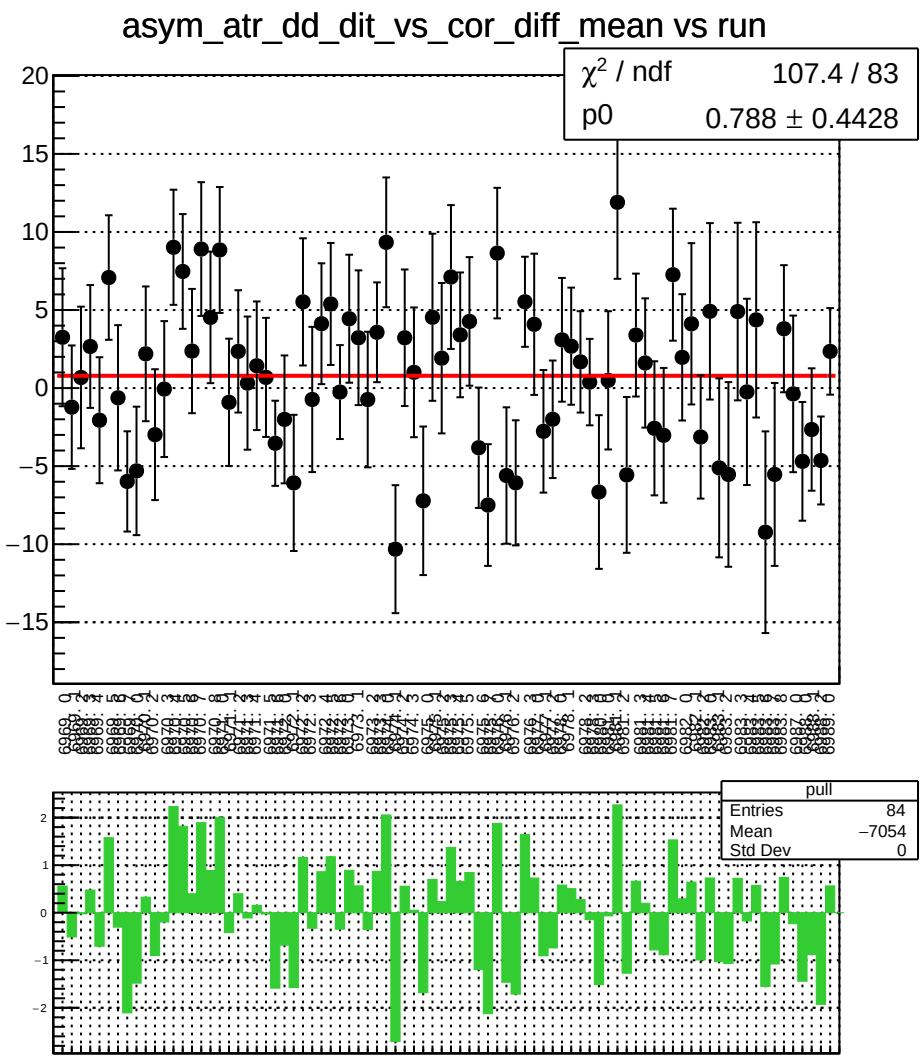

pull1D
Entries 84
Mean −0.04651
Std Dev 1.158
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

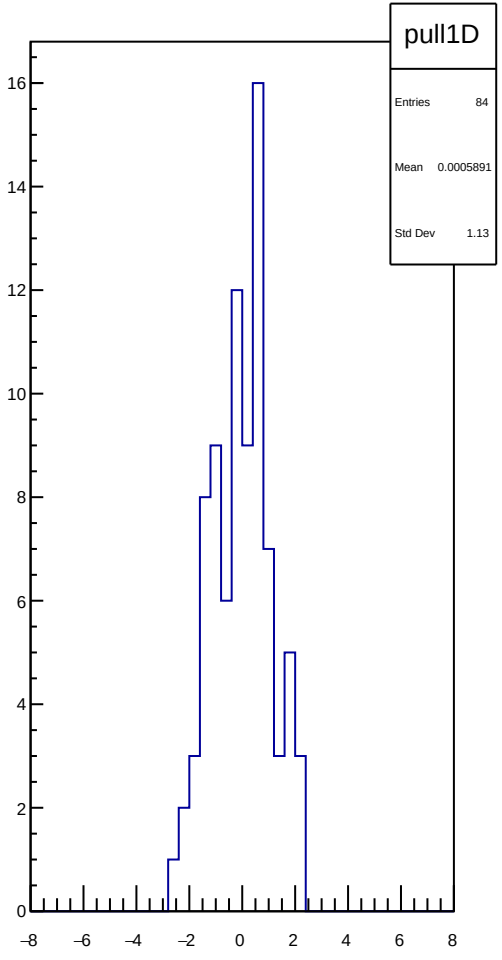

asym_atr_dd_rms vs run
χ^2 / ndf 4.337e+04 / 83
p0 6152 ± 4.819
8000
7500
7000
6500
6000
5500
5000
4500
4000

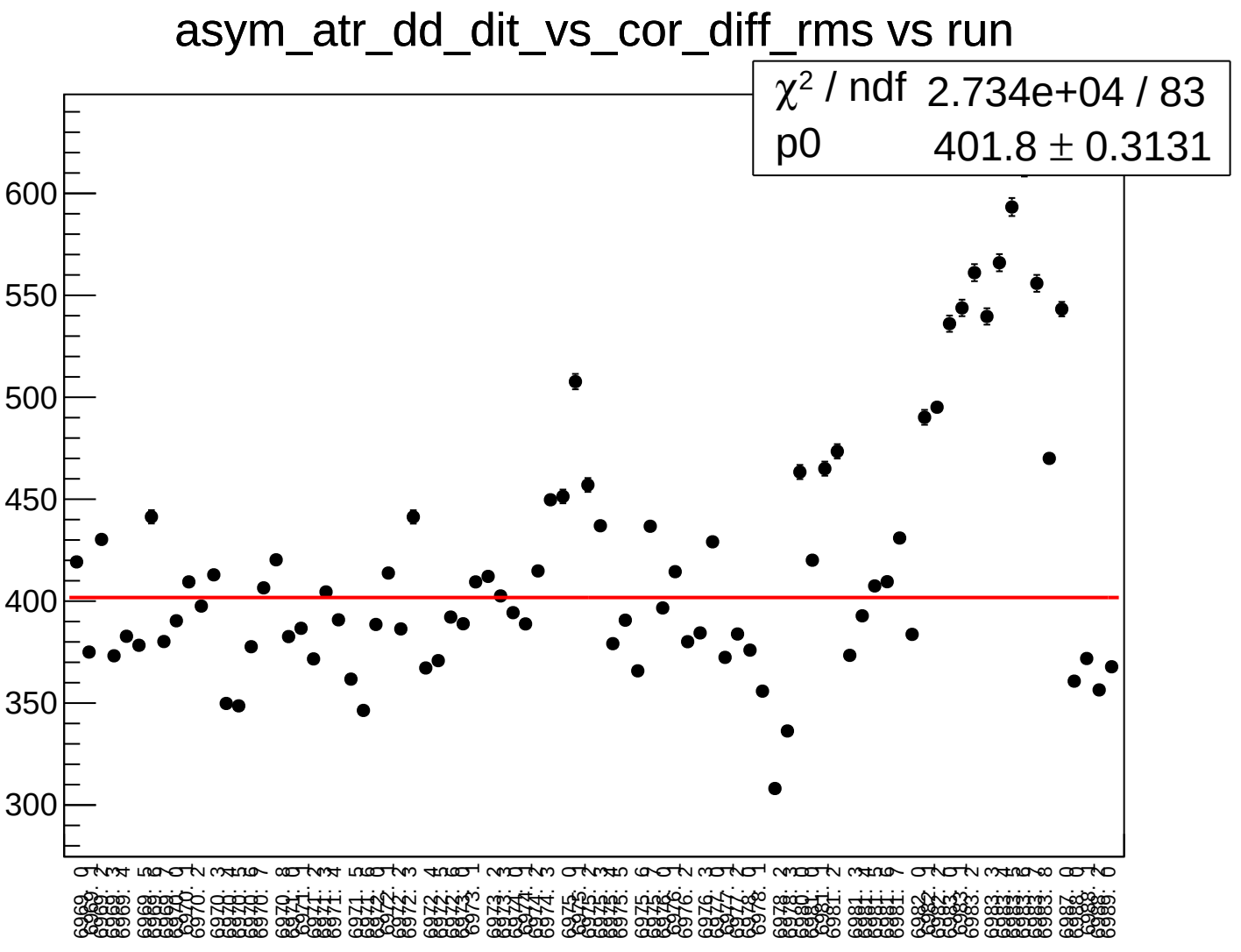

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83 / 83
p0 −2.185e−13 ± 2.606e−13
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 84
Mean −180.8
Std Dev 0
2
1
0
−1
−2

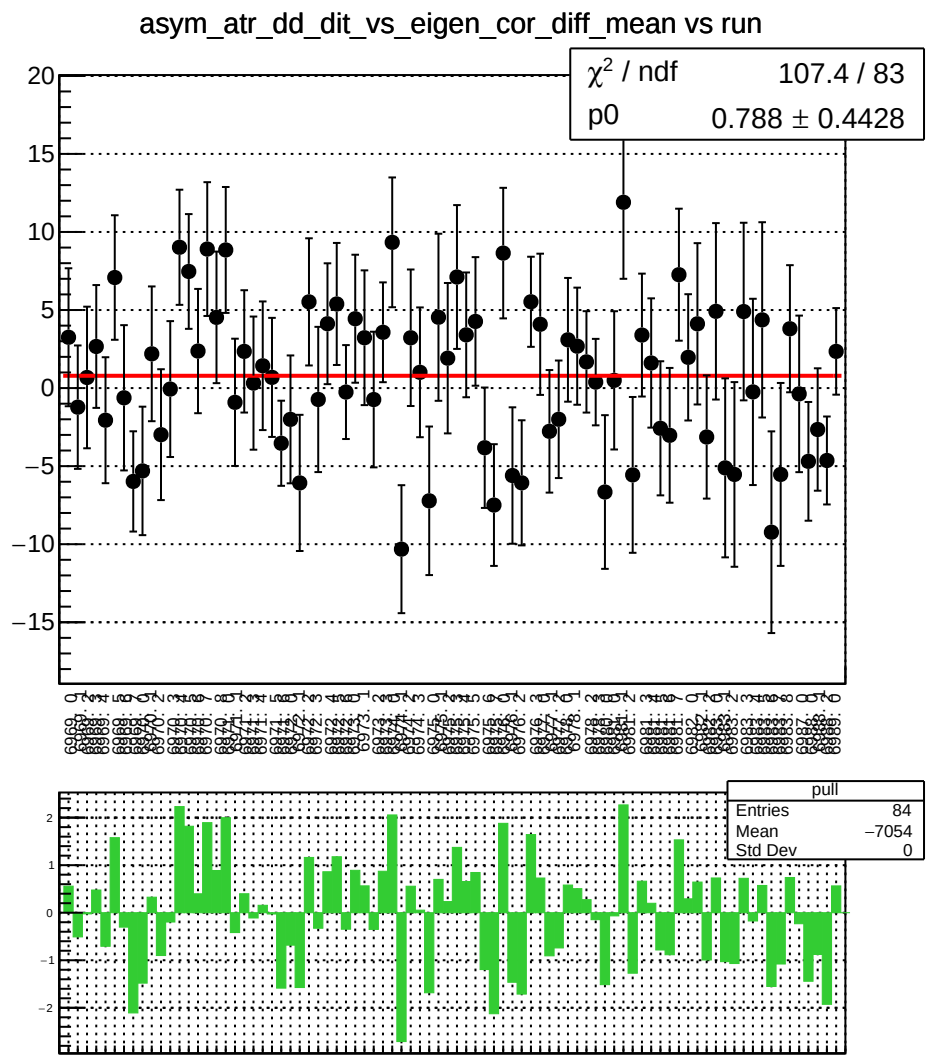

pull1D
Entries 84
Mean −0.02753
Std Dev 0.9936
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

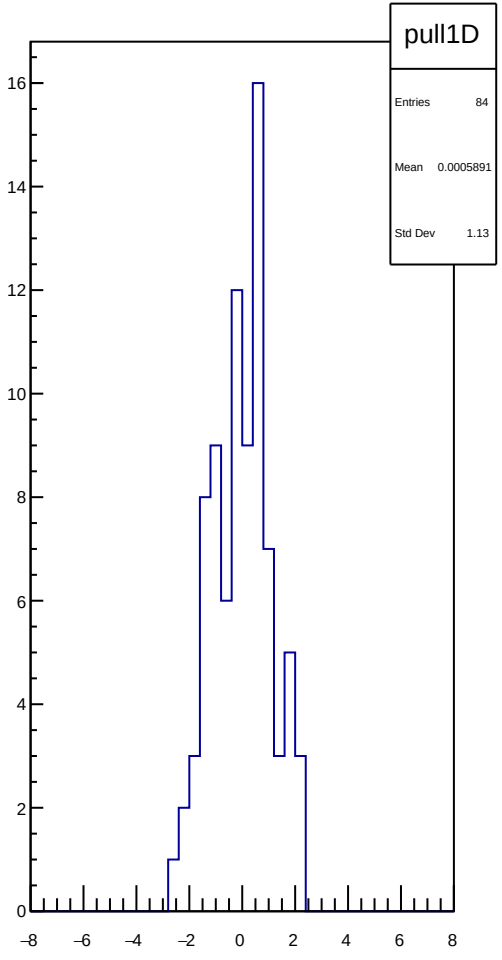

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.12e+06 / 83
p0 1.371e−10 ± 1.843e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

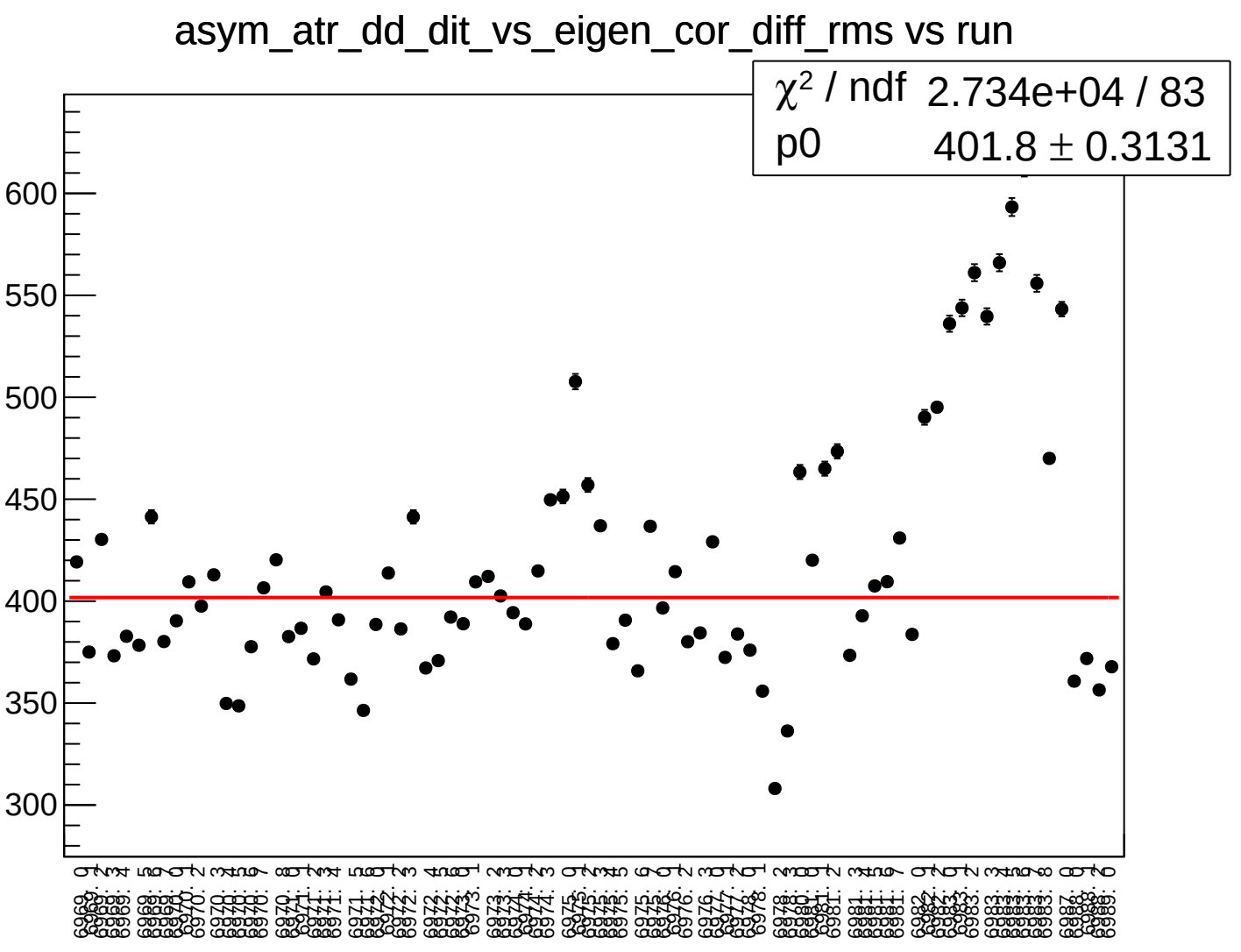

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 83
p0 0.788 ± 0.4428
pull
Entries 84
Mean −7054
Std Dev 0

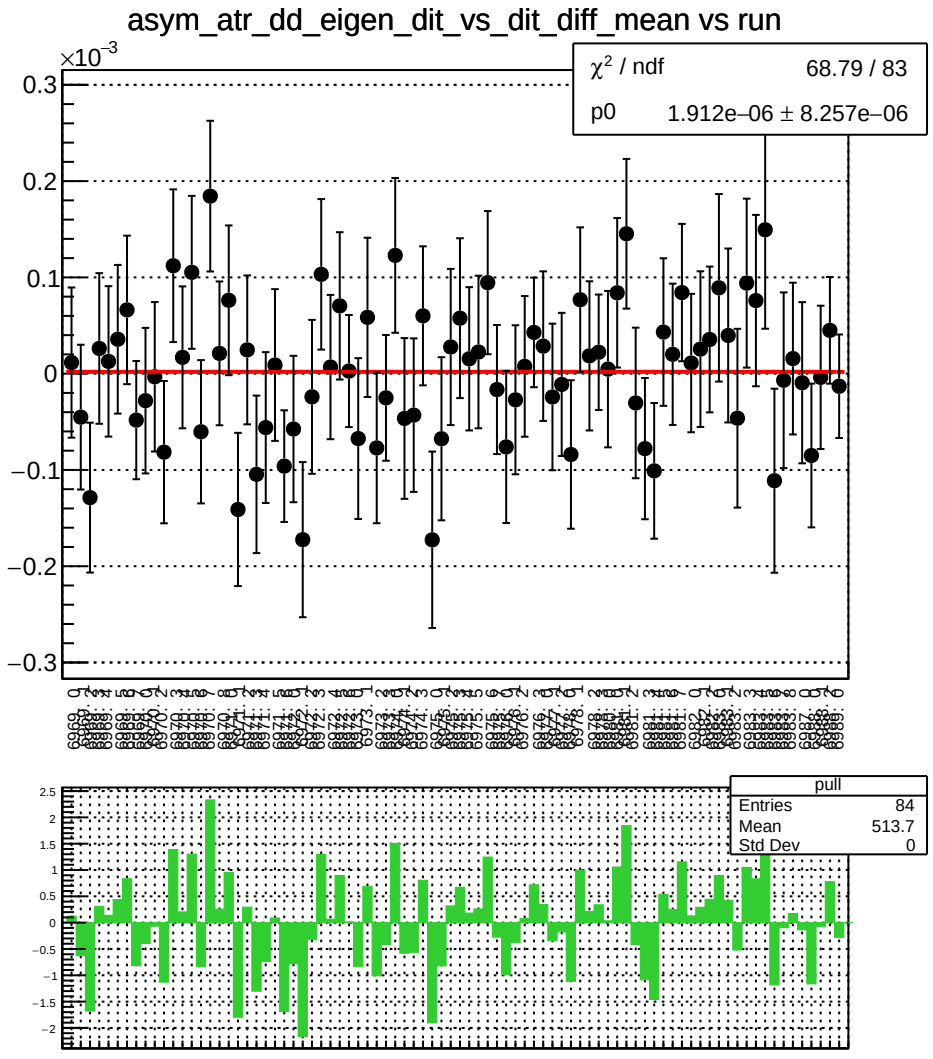

pull1D
Entries 84
Mean 0.0005891
Std Dev 1.13

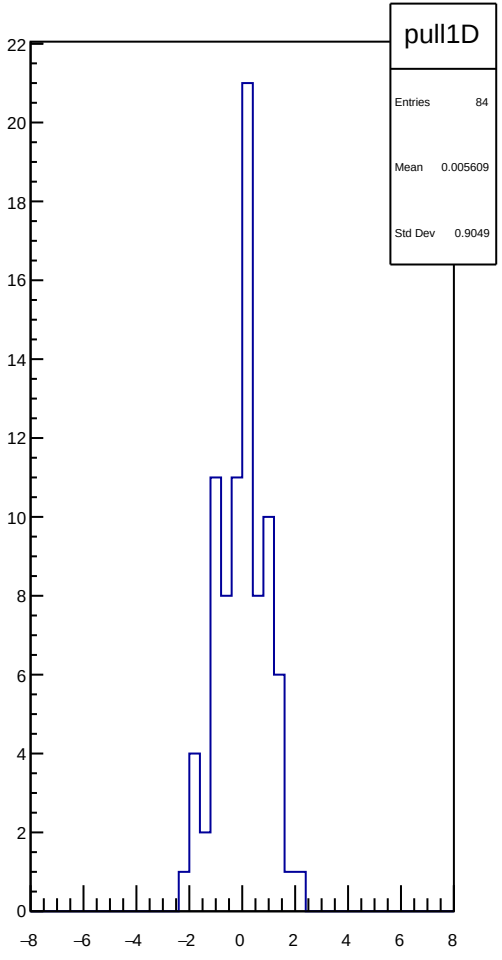

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.734e+04 / 83
p0 401.8 ± 0.3131
600
550
500
450
400
350
300

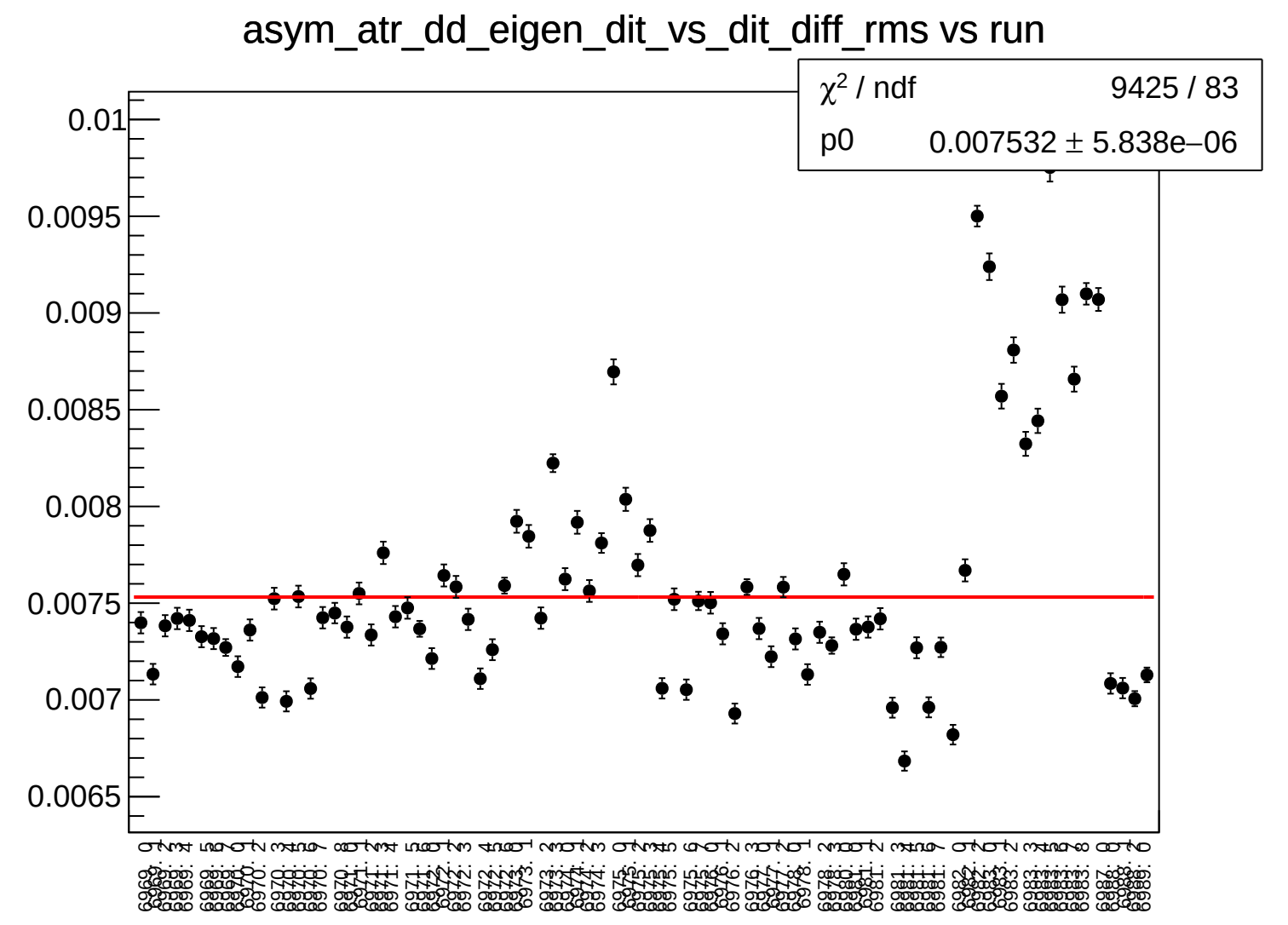

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 83
p0 0.788 ± 0.4428
pull
Entries 84
Mean −7054
Std Dev 0

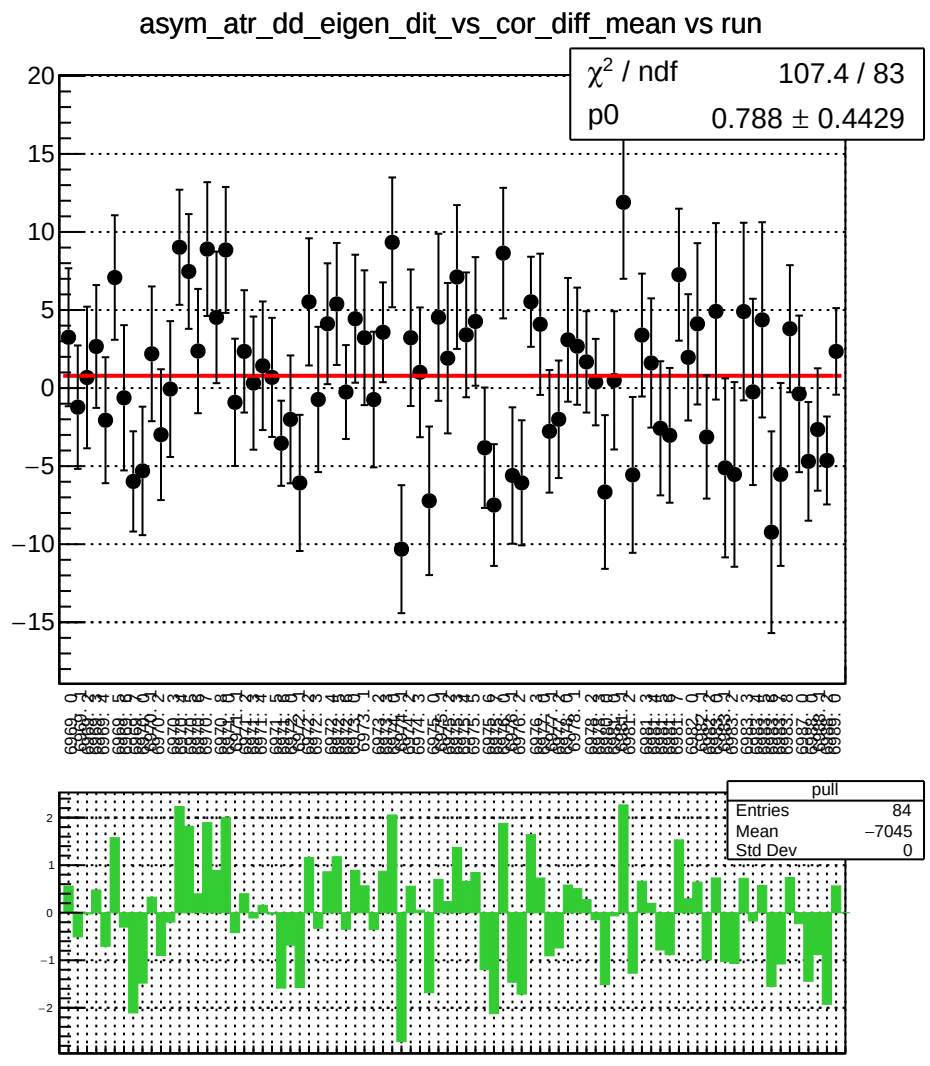

pull1D
Entries 84
Mean 0.0005891
Std Dev 1.13

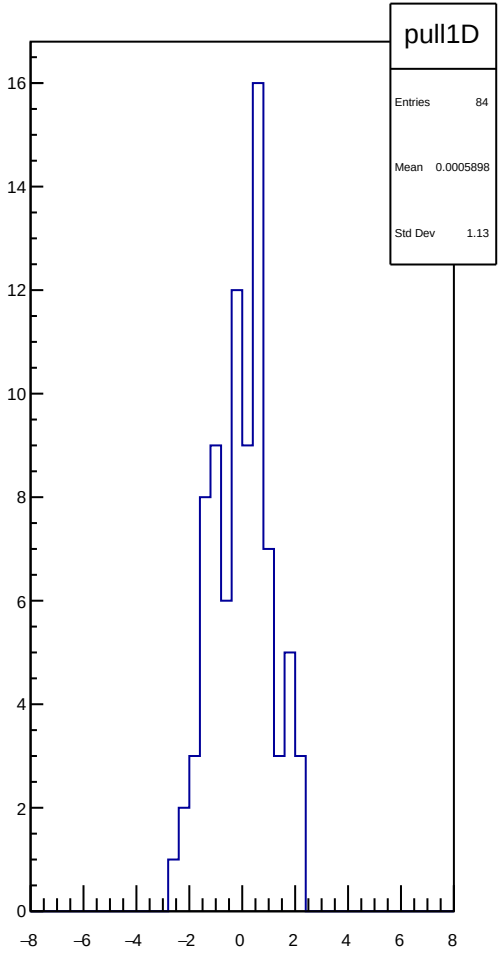

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.734e+04 / 83
p0 401.8 ± 0.3131
600
550
500
450
400
350
300

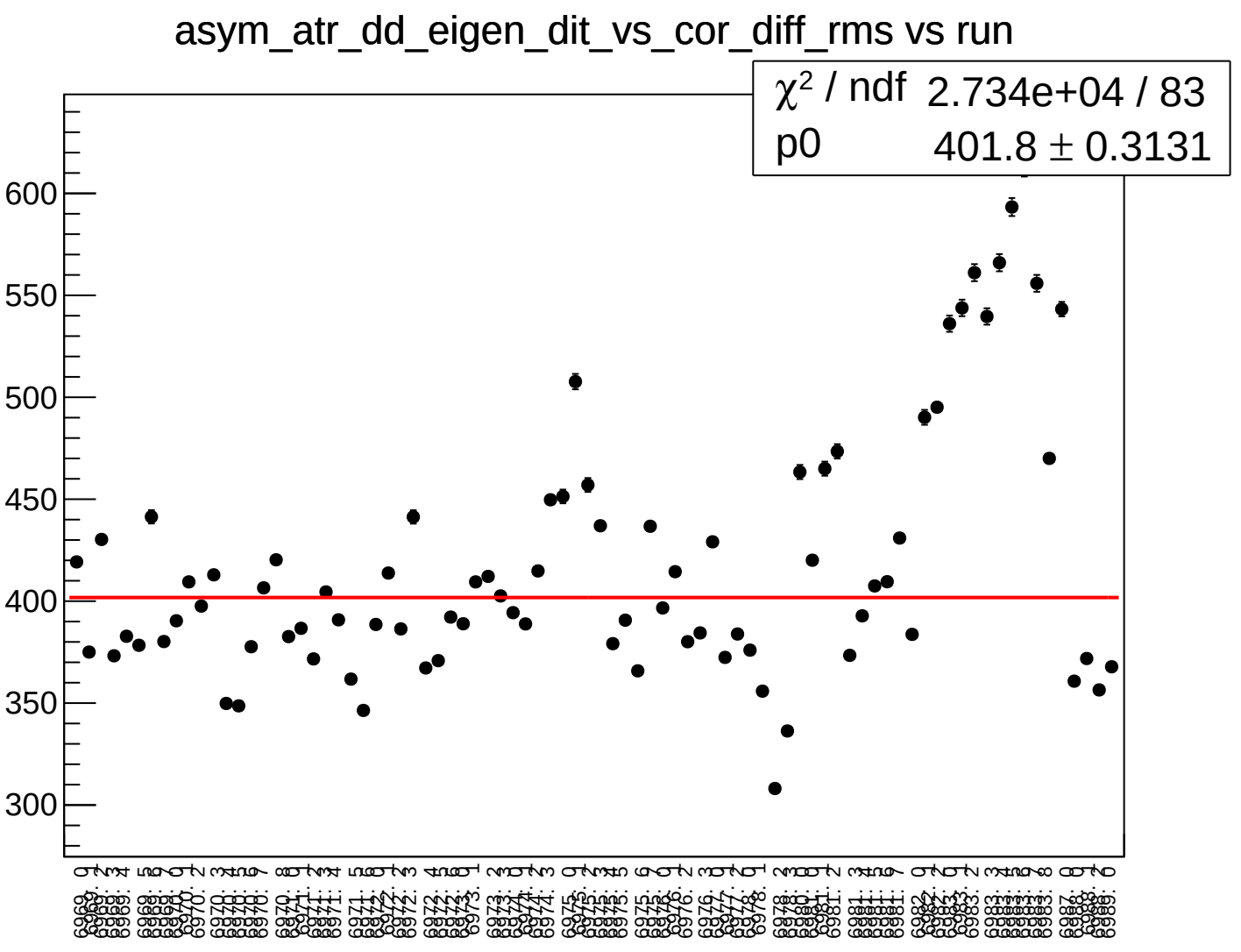

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.79 / 83
p0 1.912e−06 ± 8.257e−06
pull
Entries 84
Mean 513.7
Std Dev 0

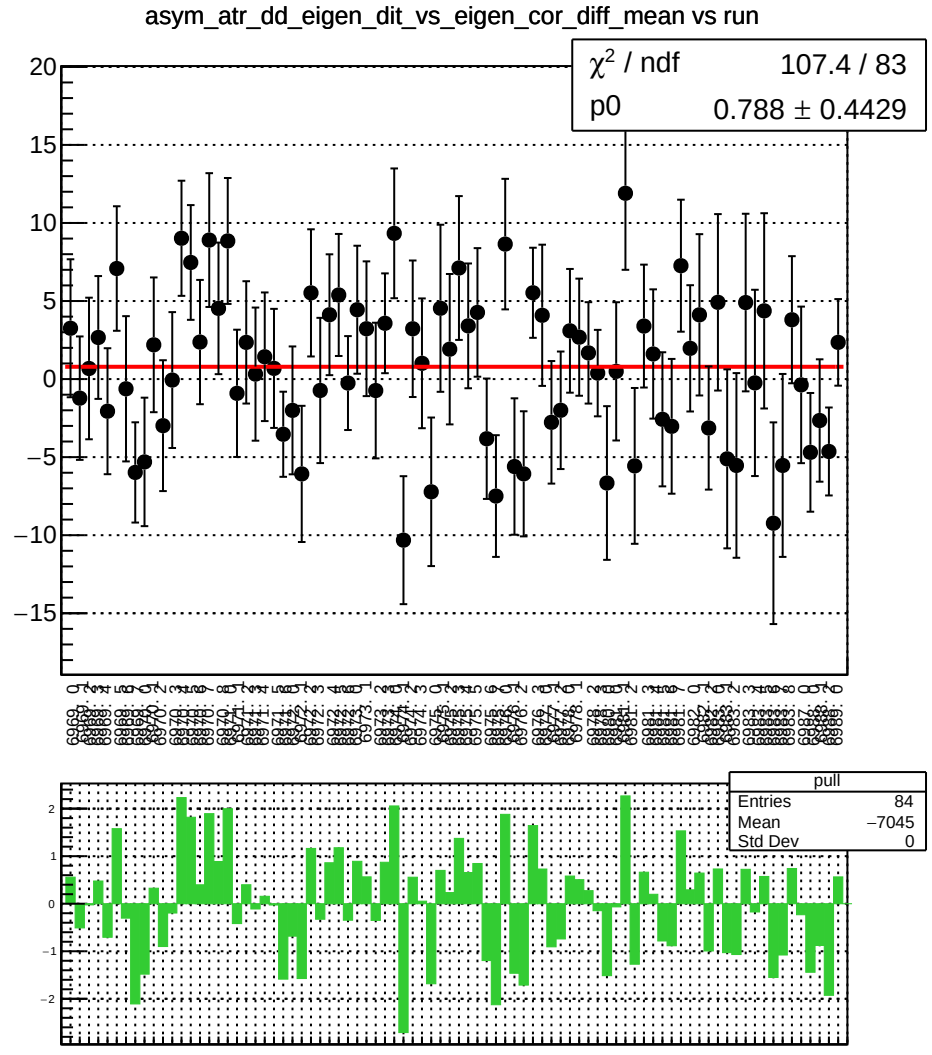

pull1D
Entries 84
Mean 0.005609
Std Dev 0.9049

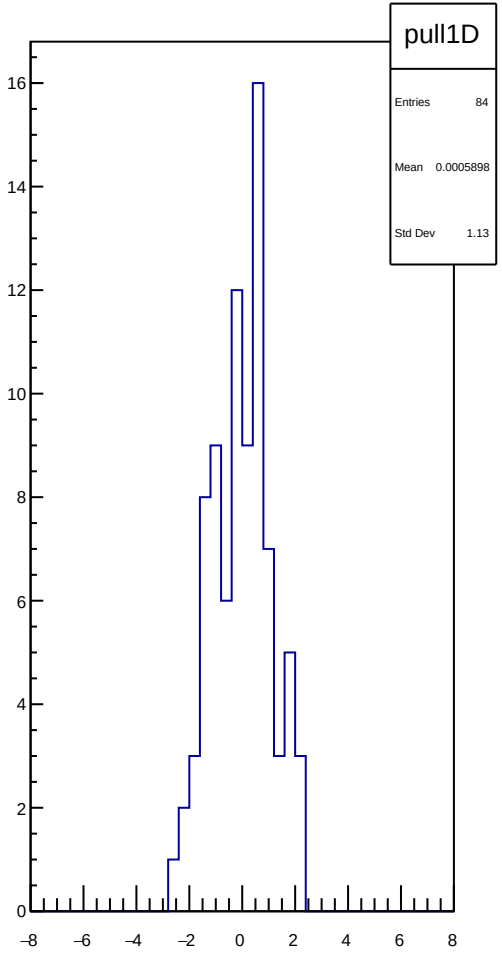

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9425 / 83
p0 0.007532 ± 5.838e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

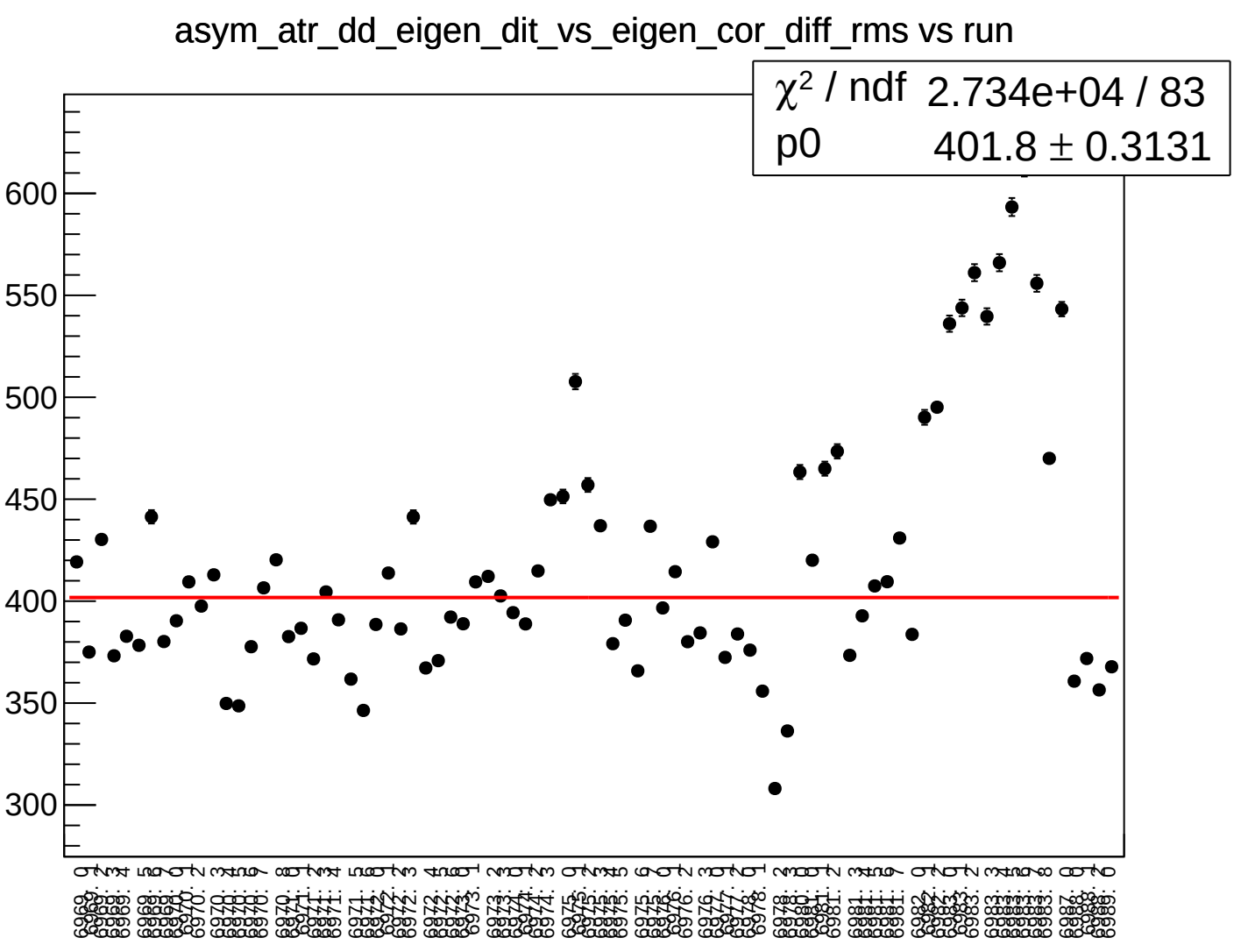

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 83
p0 0.788 ± 0.4429
pull
Entries 84
Mean −7045
Std Dev 0

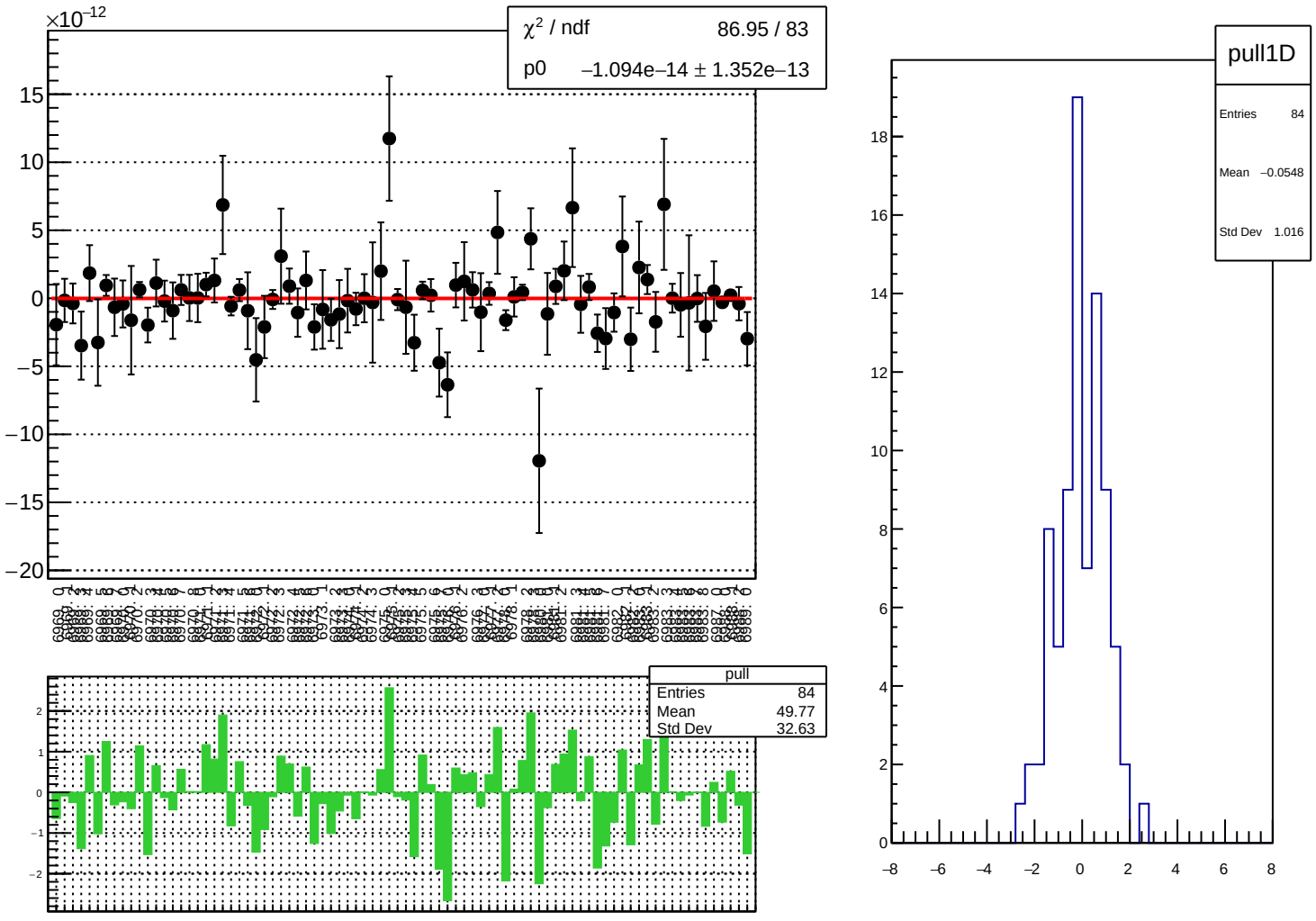

pull1D
Entries 84
Mean 0.0005898
Std Dev 1.13

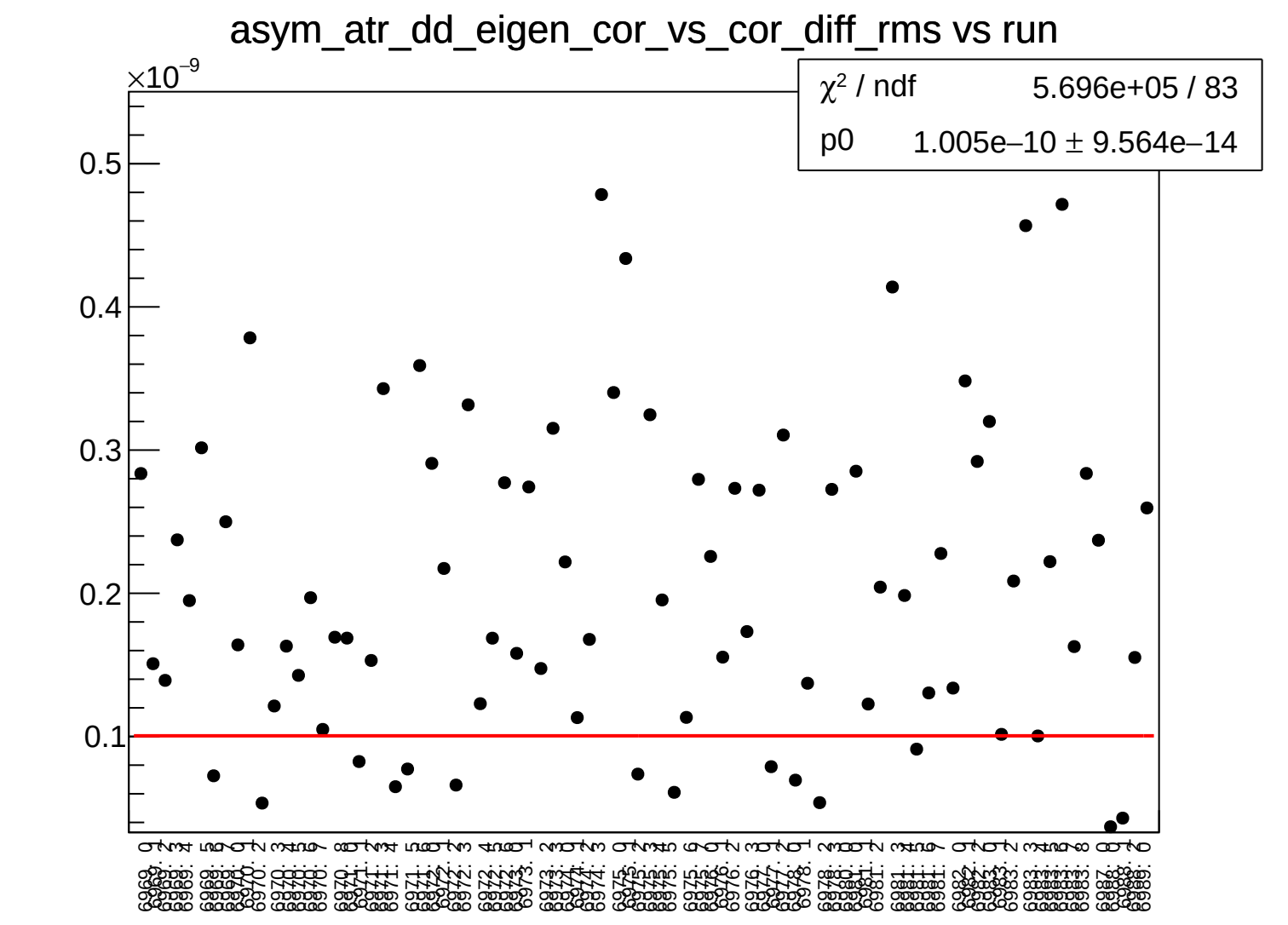

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.734e+04 / 83
p0 401.8 ± 0.3131
600
550
500
450
400
350
300

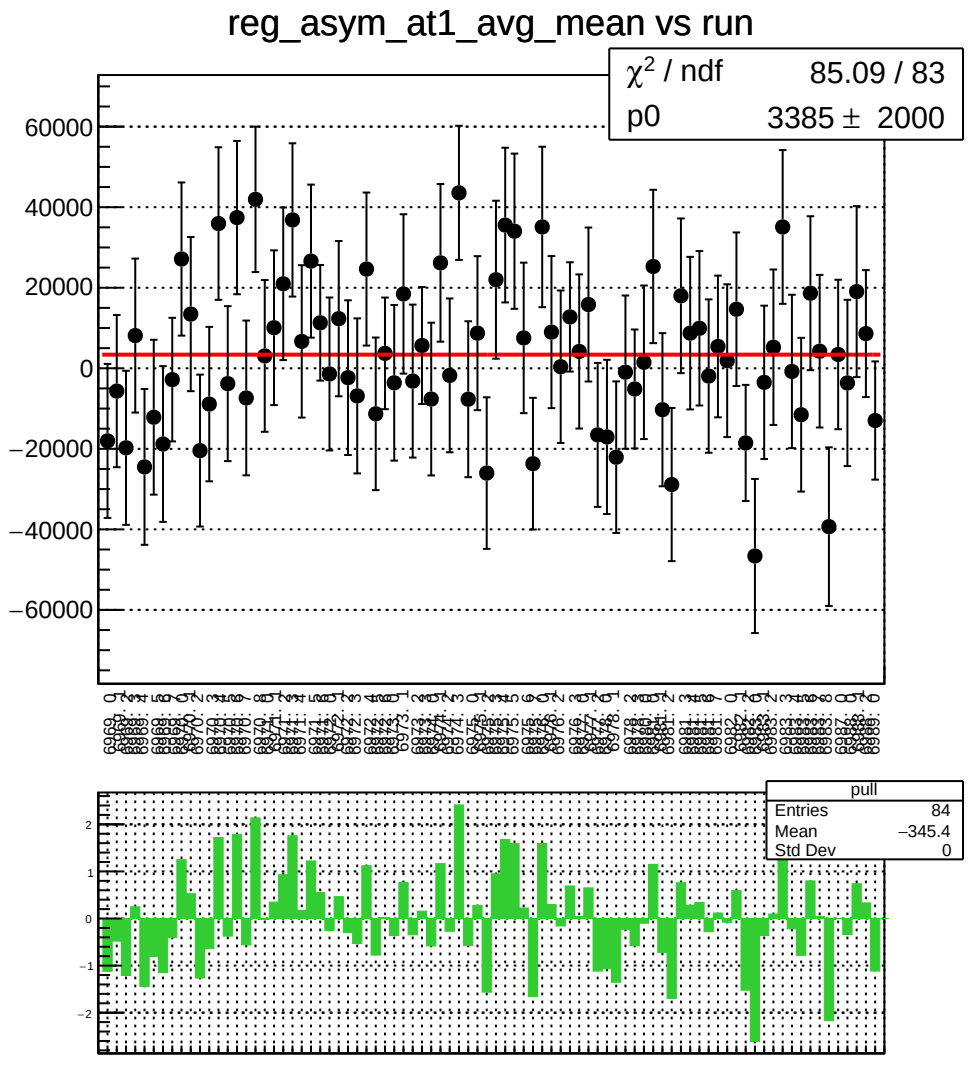

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 83
p0 0.788 ± 0.4429
pull
Entries 84
Mean −7045
Std Dev 0

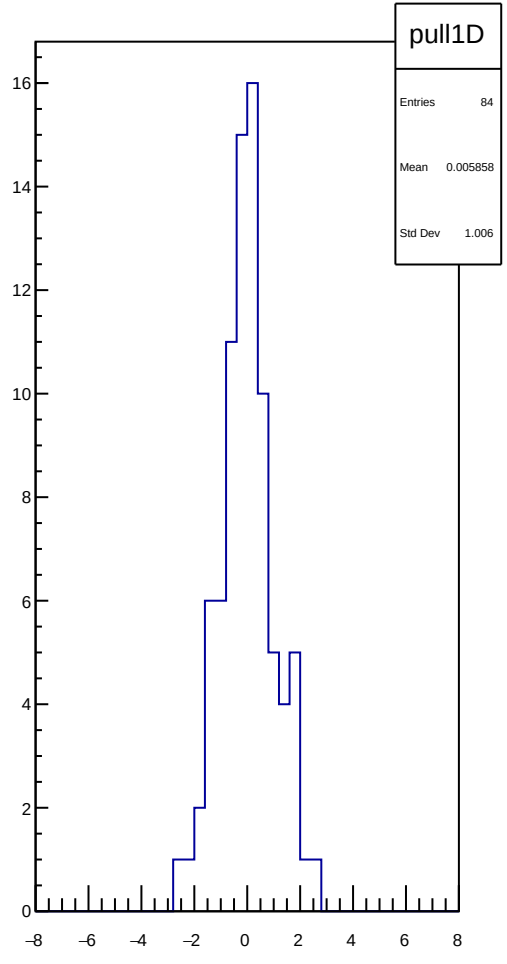

pull1D
Entries 84
Mean 0.0005898
Std Dev 1.13

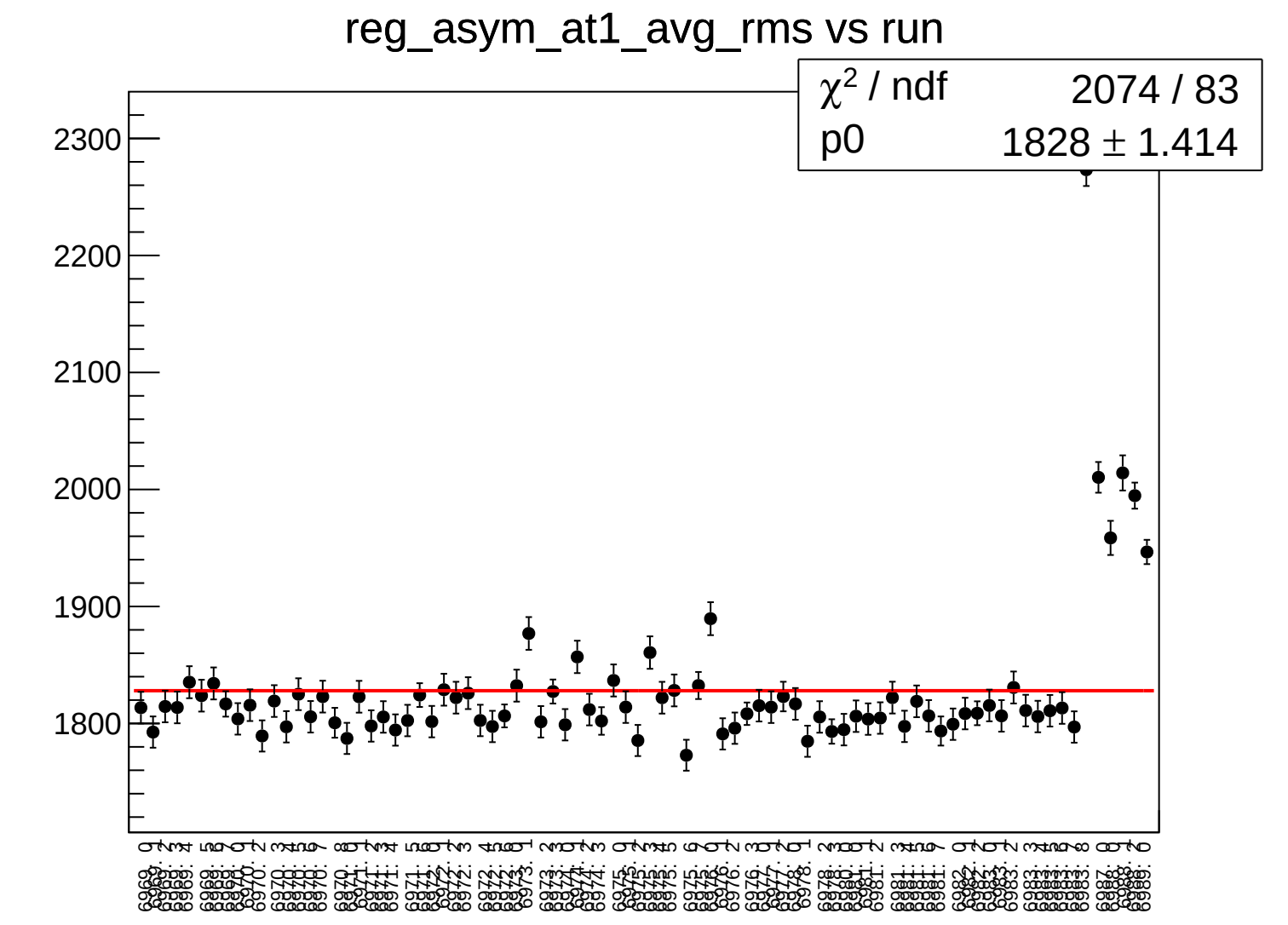

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.734e+04 / 83
p0 401.8 ± 0.3131
600
550
500
450
400
350
300

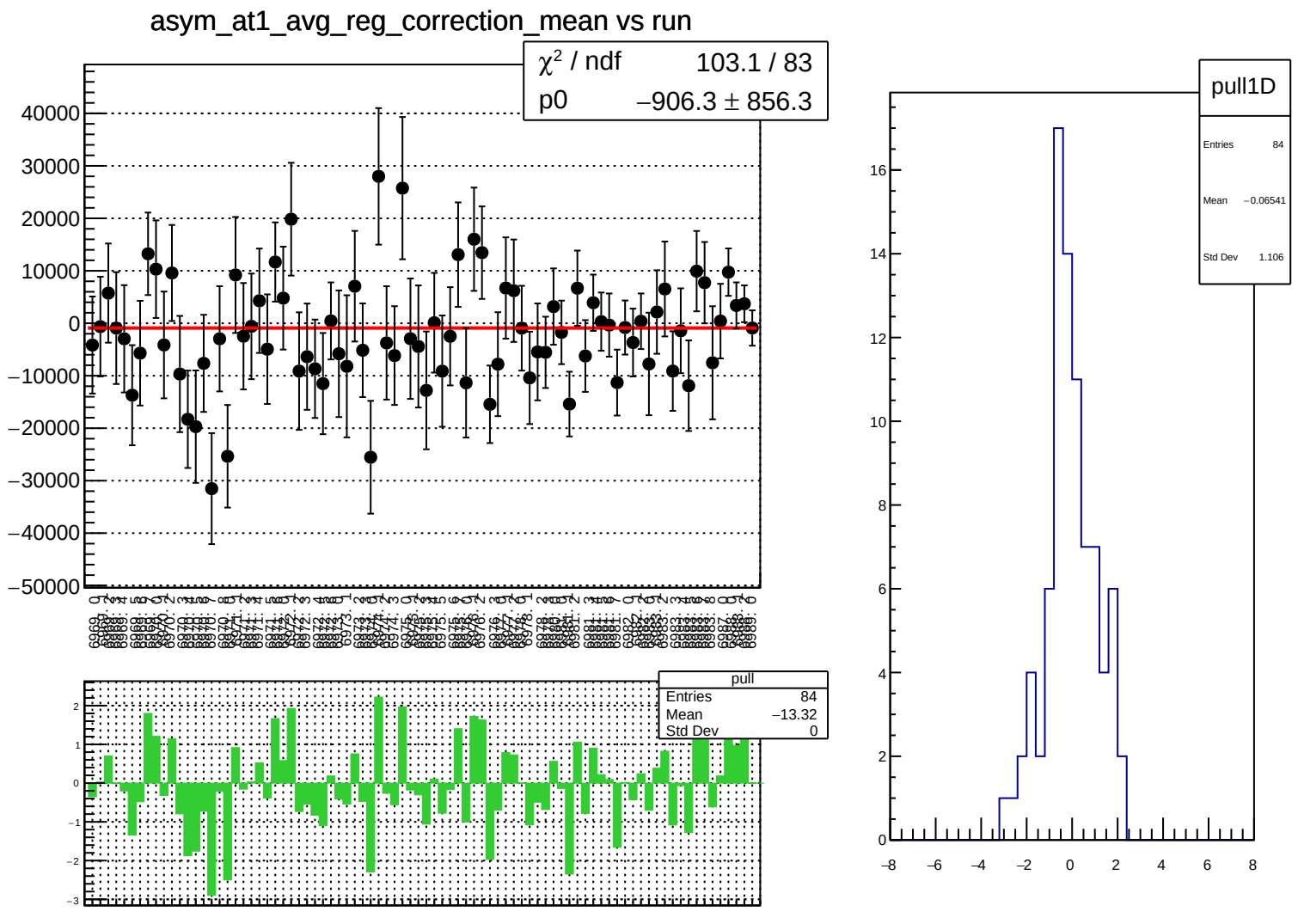

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.95 / 83
p0 −1.094e−14 ± 1.352e−13
pull
Entries 84
Mean 49.77
Std Dev 32.63
pull1D
Entries 84
Mean −0.0548
Std Dev 1.016

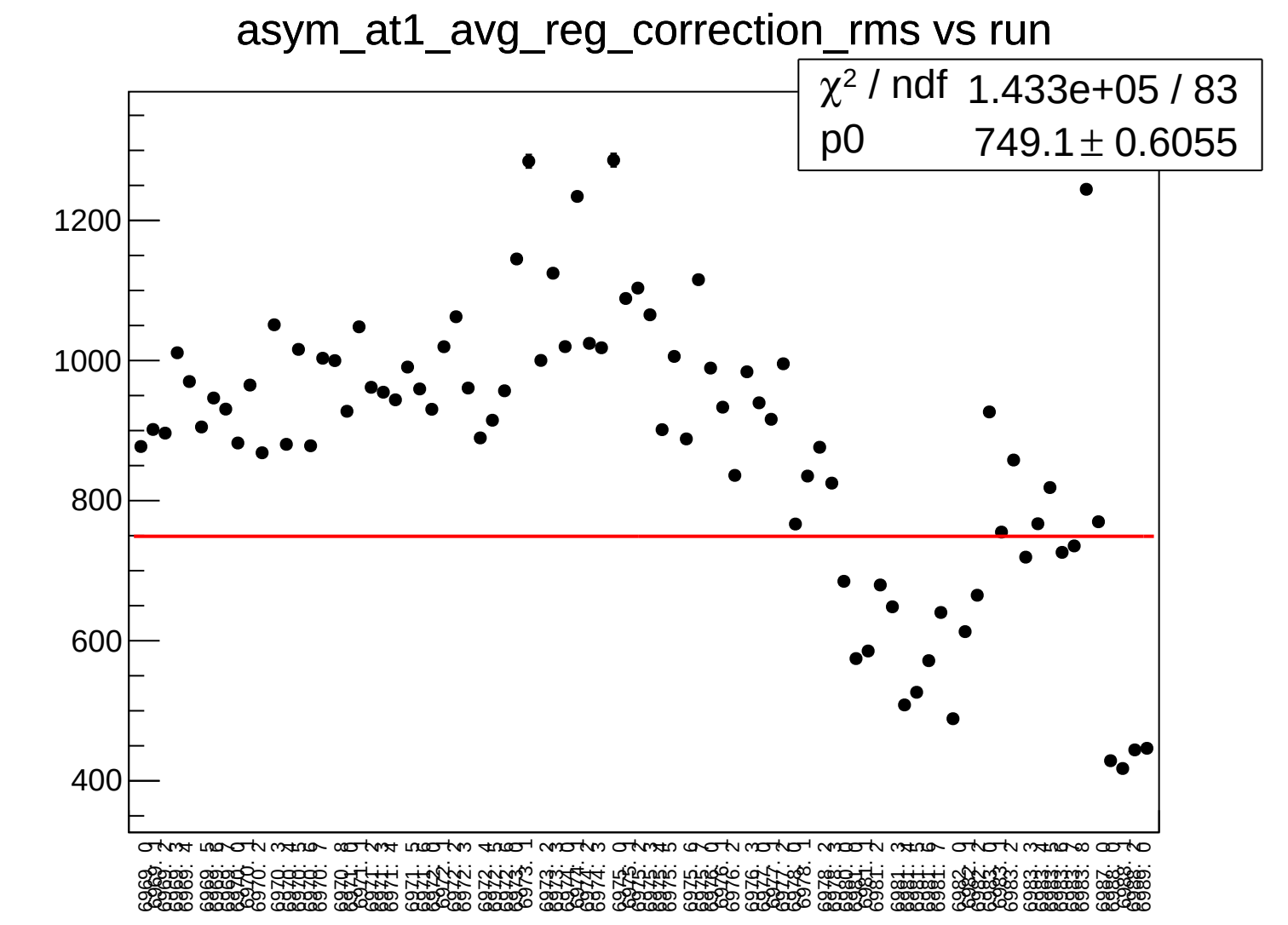

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.696e+05 / 83
p0 1.005e−10 ± 9.564e−14
0.5
0.4
0.3
0.2
0.1

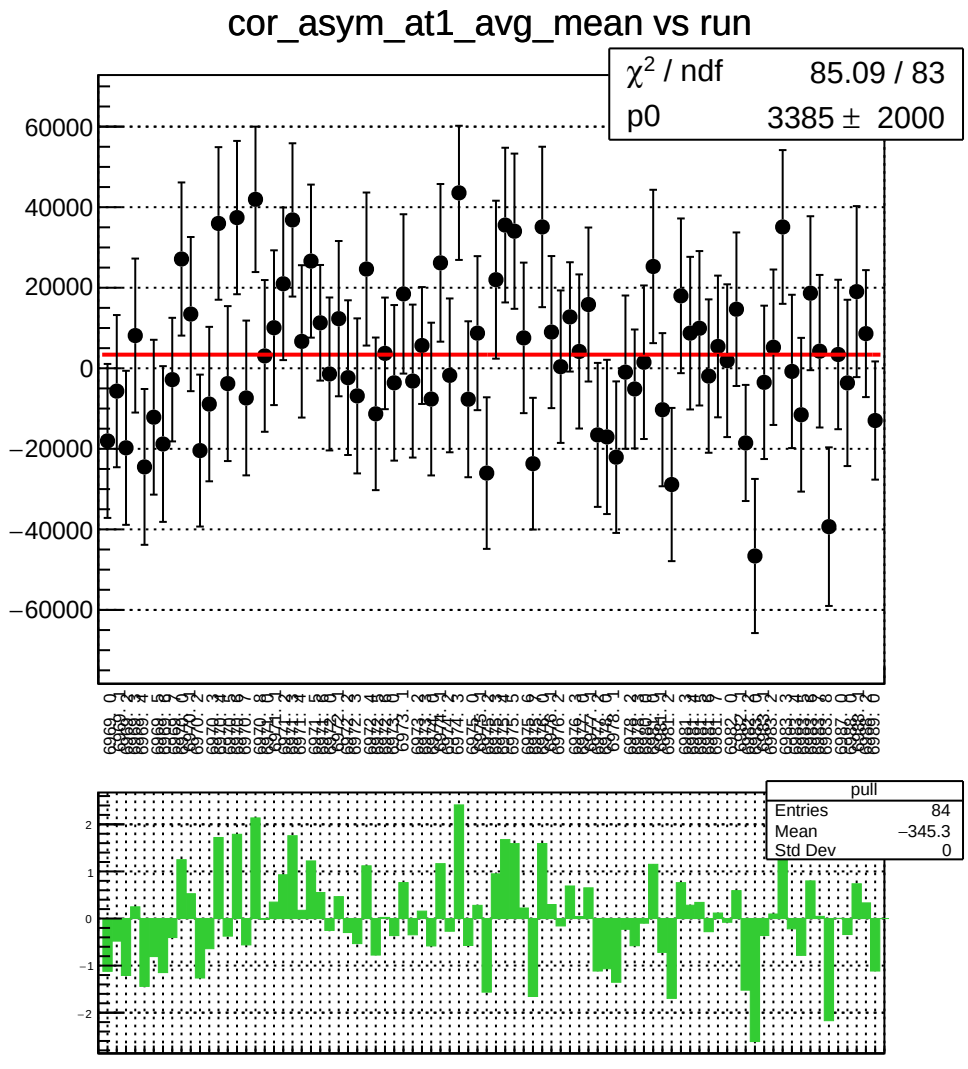

reg_asym_at1_avg_mean vs run
χ² / ndf 85.09 / 83
p0 3385 ± 2000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −345.4
Std Dev 0
2
1
0
−1
−2

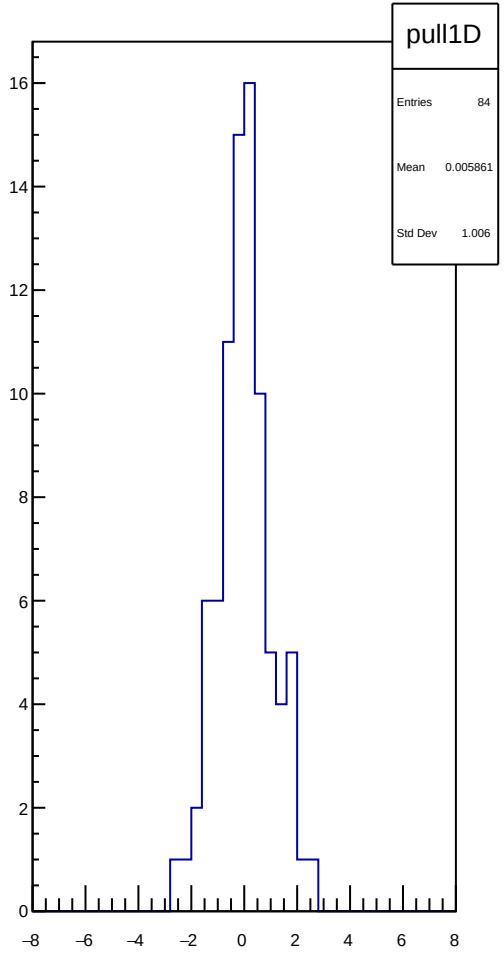

pull1D
Entries 84
Mean 0.005858
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

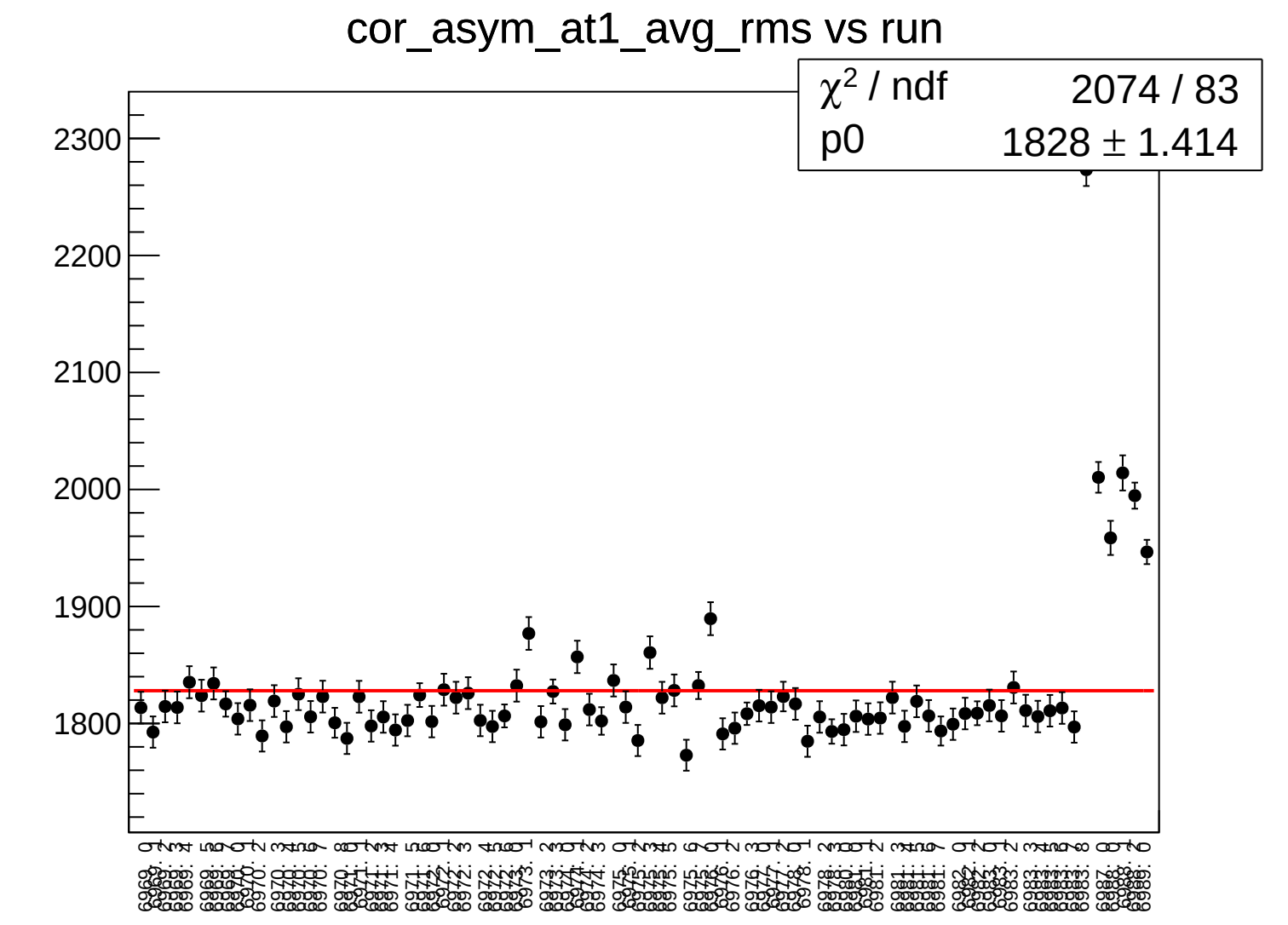

reg_asym_at1_avg_rms vs run
χ^2 / ndf 2074 / 83
p0 1828 ± 1.414
2300
2200
2100
2000
1900
1800

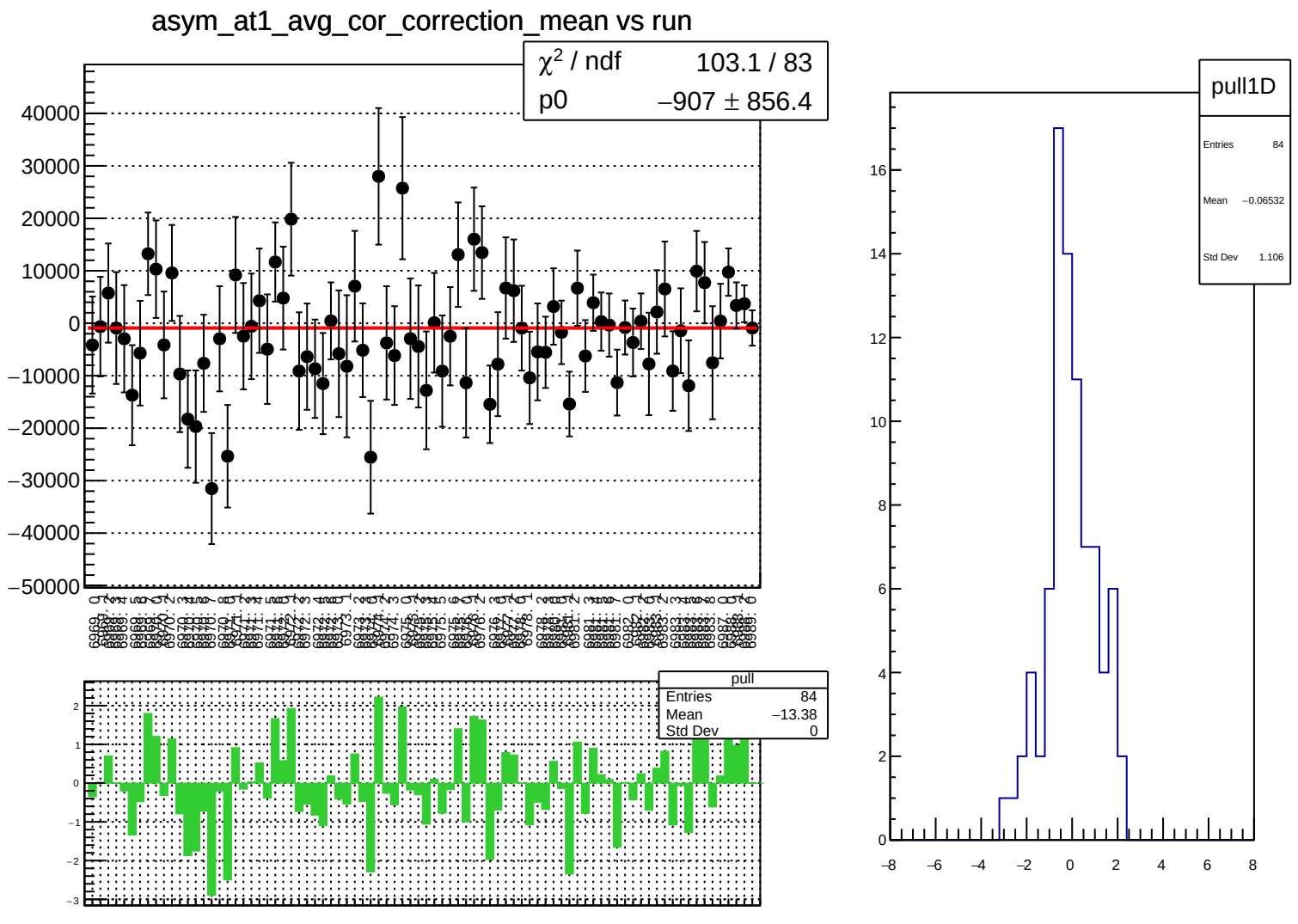

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 103.1 / 83
p0 −906.3 ± 856.3
pull
Entries 84
Mean −13.32
Std Dev 0
pull1D
Entries 84
Mean −0.06541
Std Dev 1.106

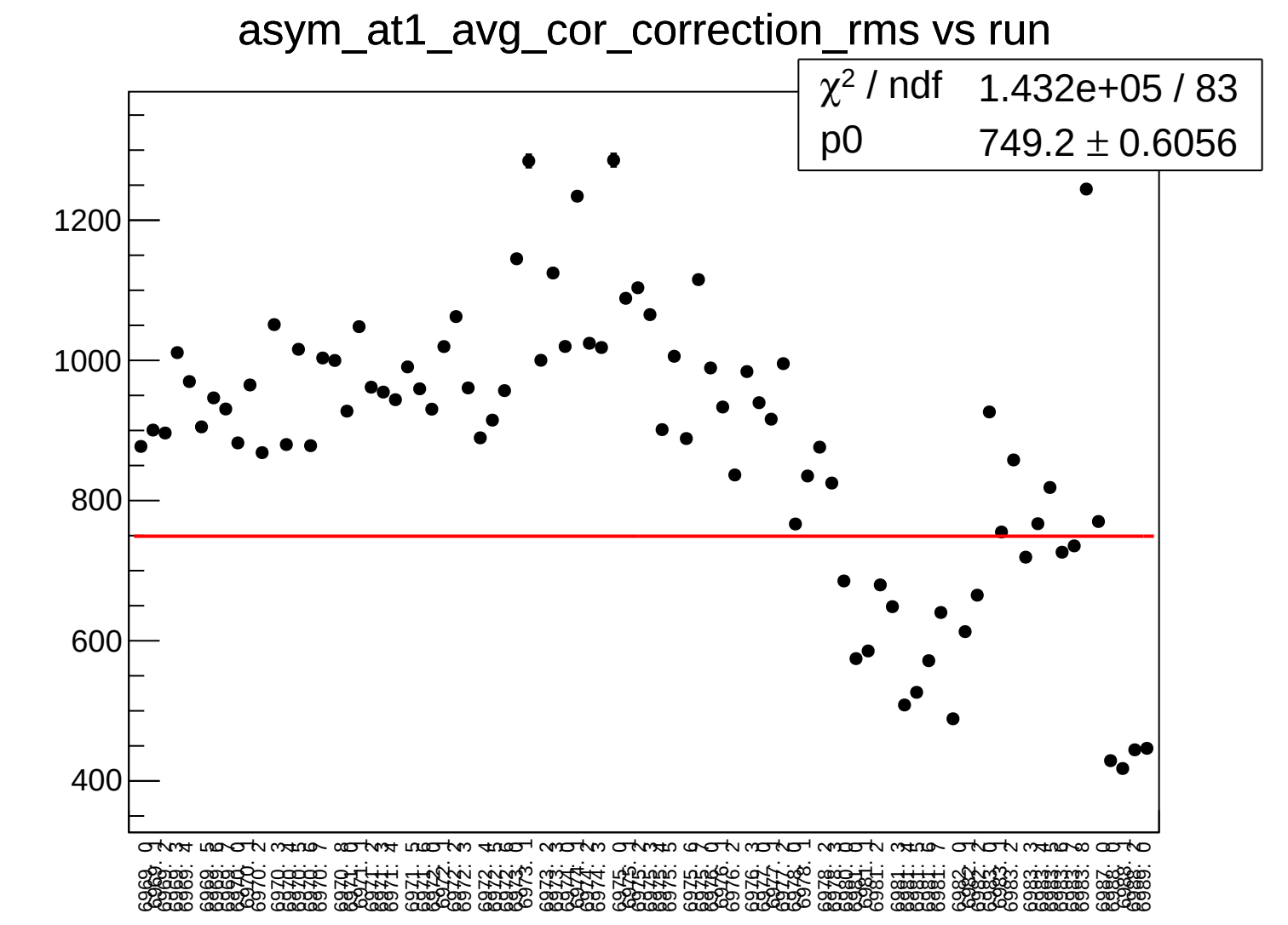

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.433e+05 / 83
p0 749.1 ± 0.6055
1200
1000
800
600
400

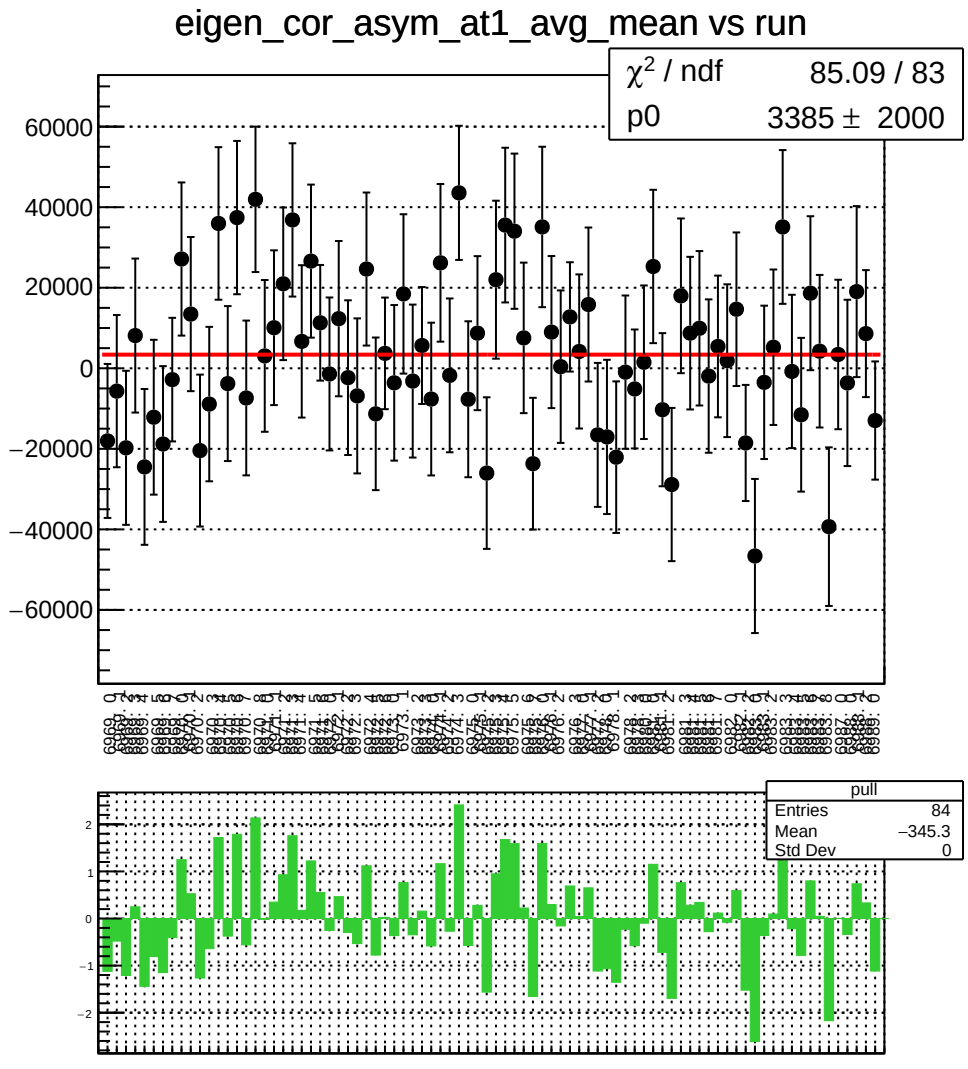

cor_asym_at1_avg_mean vs run
χ² / ndf 85.09 / 83
p0 3385 ± 2000
pull
Entries 84
Mean −345.3
Std Dev 0

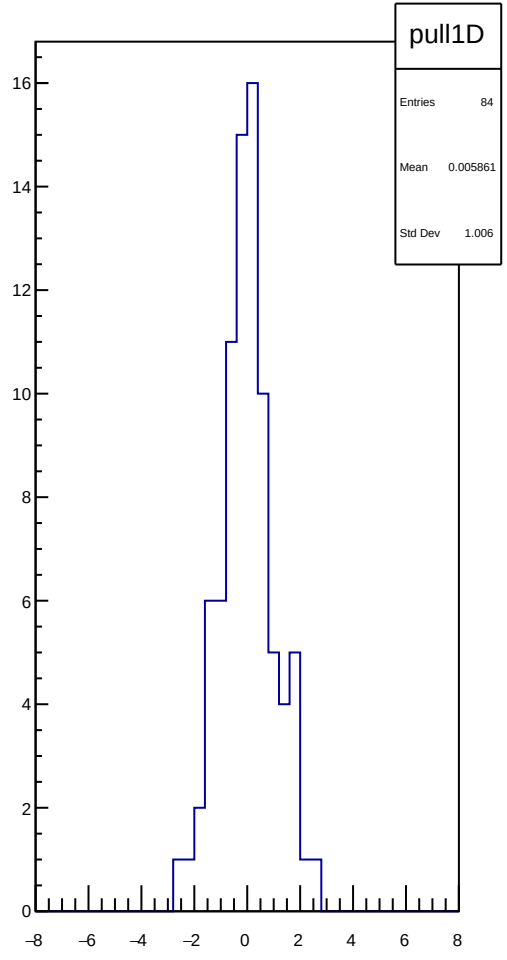

pull1D
Entries 84
Mean 0.005861
Std Dev 1.006

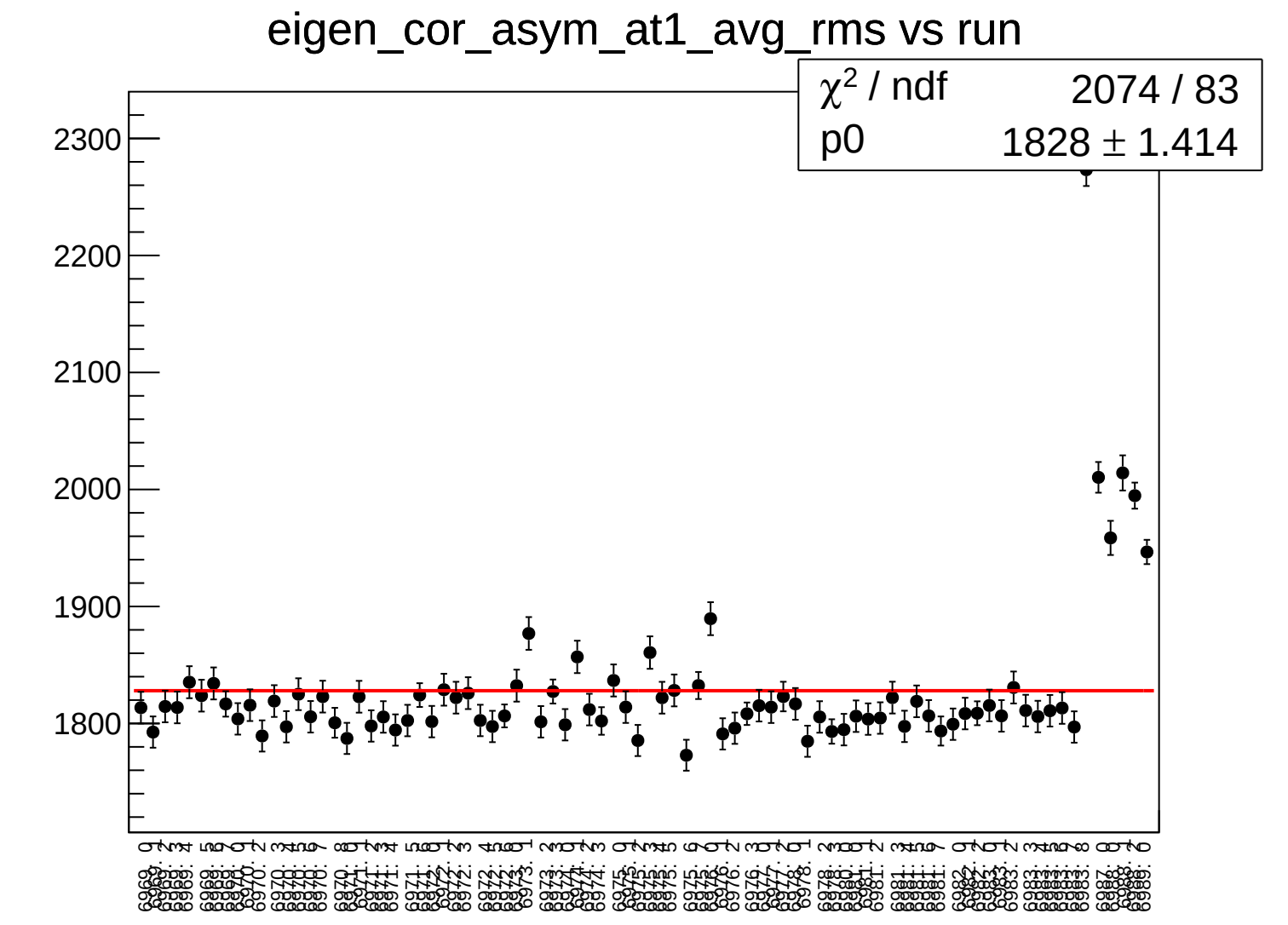

cor_asym_at1_avg_rms vs run
χ^2 / ndf 2074 / 83
p0 1828 ± 1.414
2300
2200
2100
2000
1900
1800

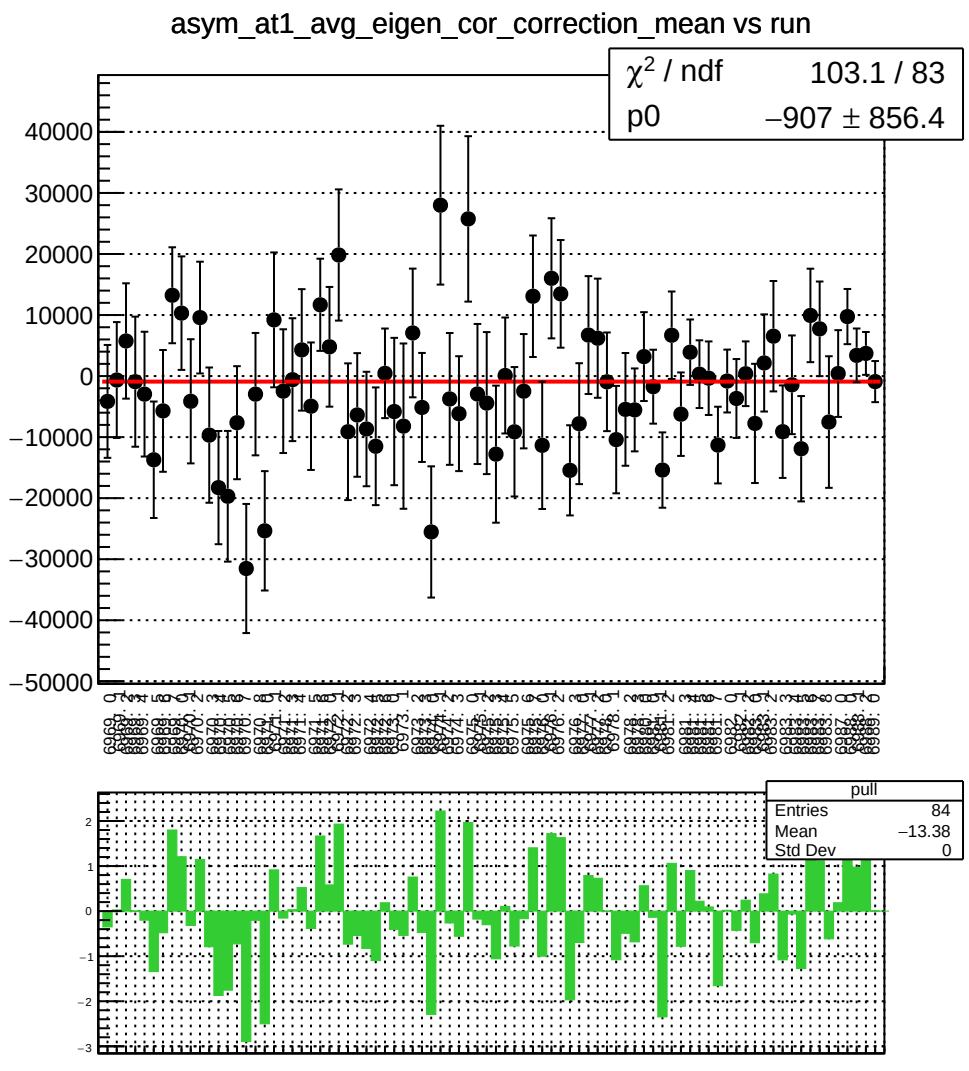

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 103.1 / 83
p0 −907 ± 856.4
pull
Entries 84
Mean −13.38
Std Dev 0
pull1D
Entries 84
Mean −0.06532
Std Dev 1.106

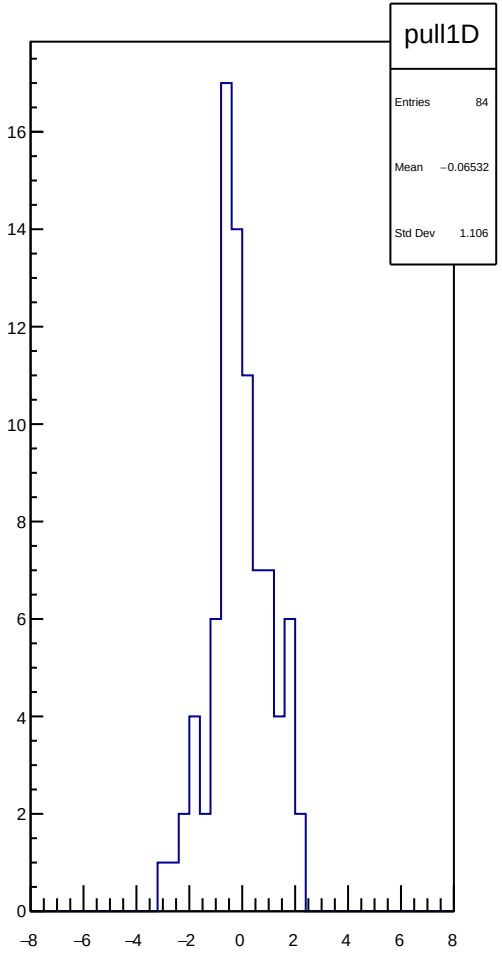

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.432e+05 / 83
p0 749.2 ± 0.6056
1200
1000
800
600
400

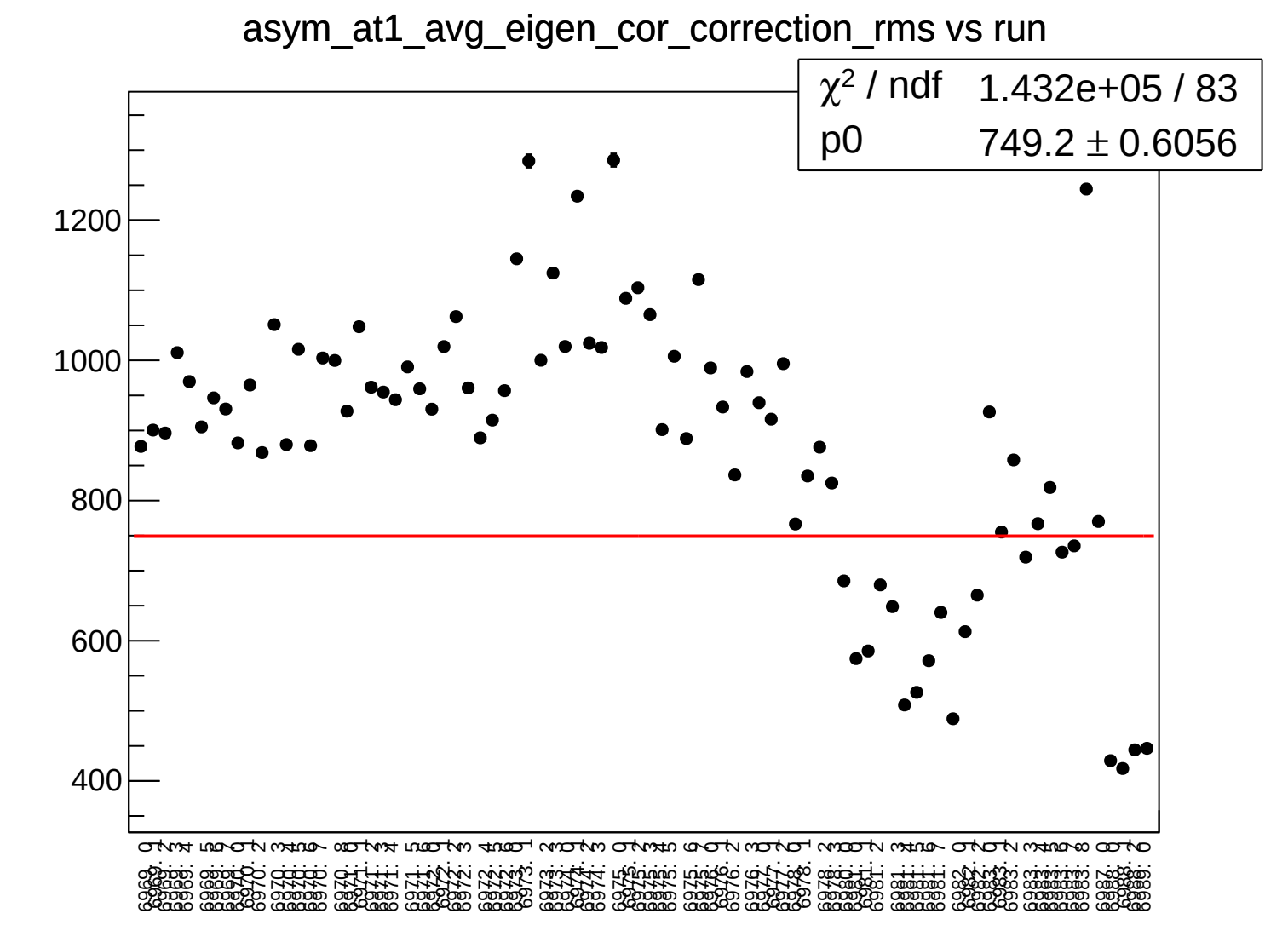

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 85.09 / 83
p0 3385 ± 2000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −345.3
Std Dev 0
2
1
0
−1
−2

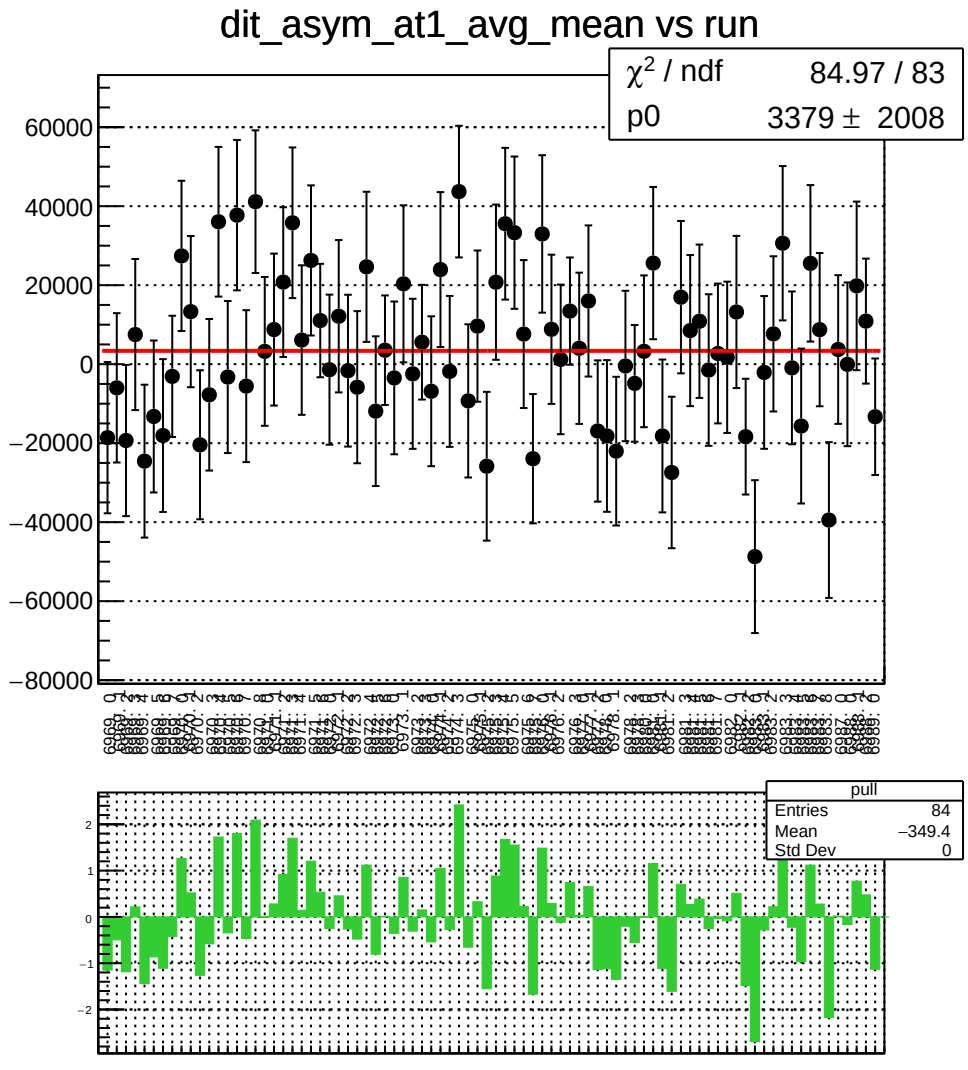

pull1D
Entries 84
Mean 0.005861
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

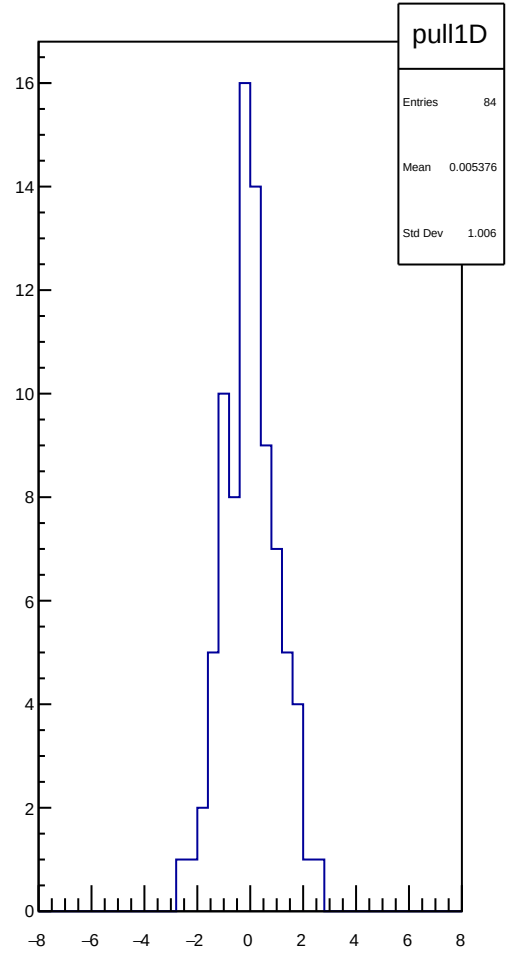

eigen_cor_asym_at1_avg_rms vs run
χ^2 / ndf 2074 / 83
p0 1828 ± 1.414
2300
2200
2100
2000
1900
1800

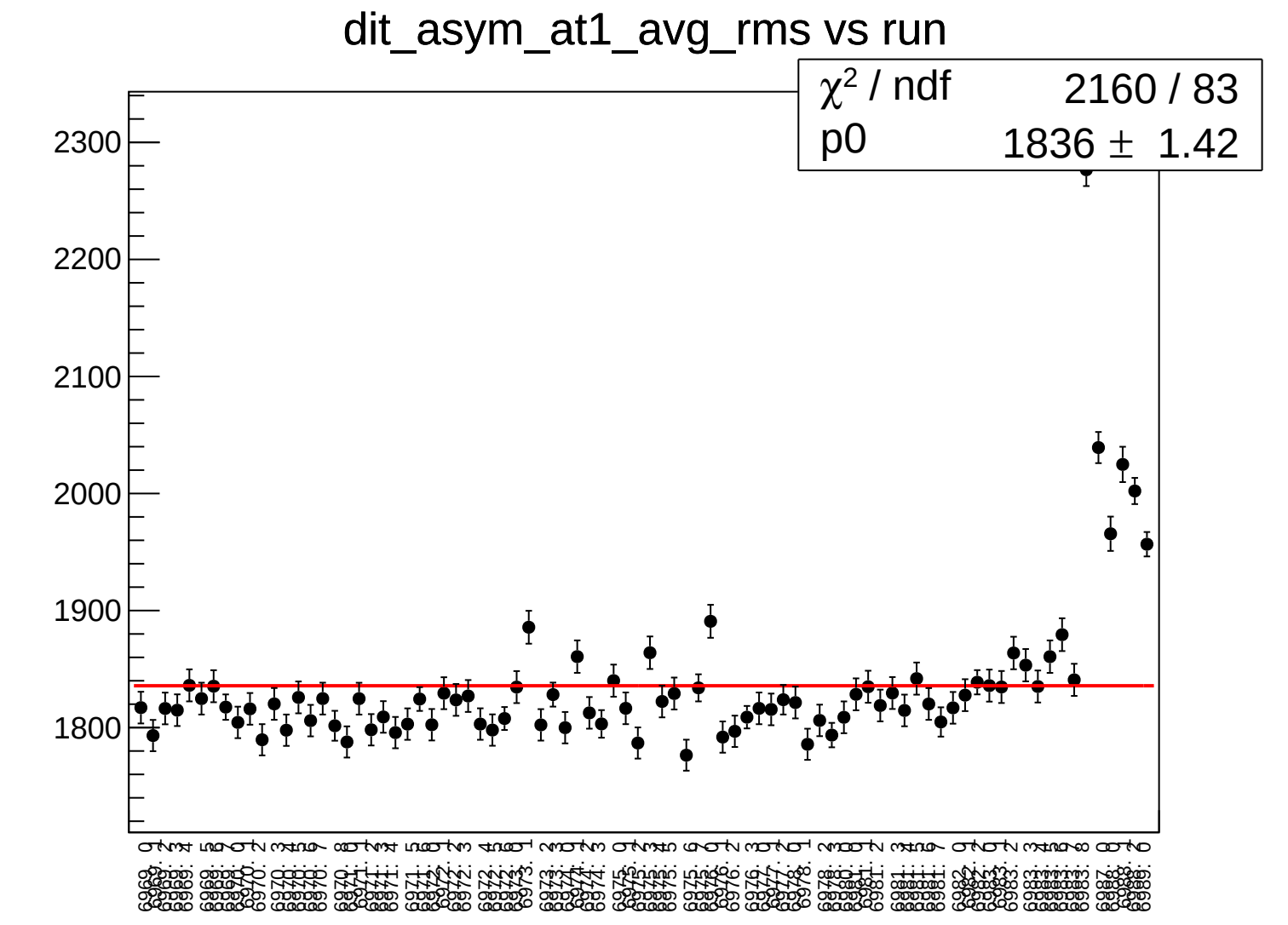

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 103.1 / 83
p0 −907 ± 856.4
pull
Entries 84
Mean −13.38
Std Dev 0

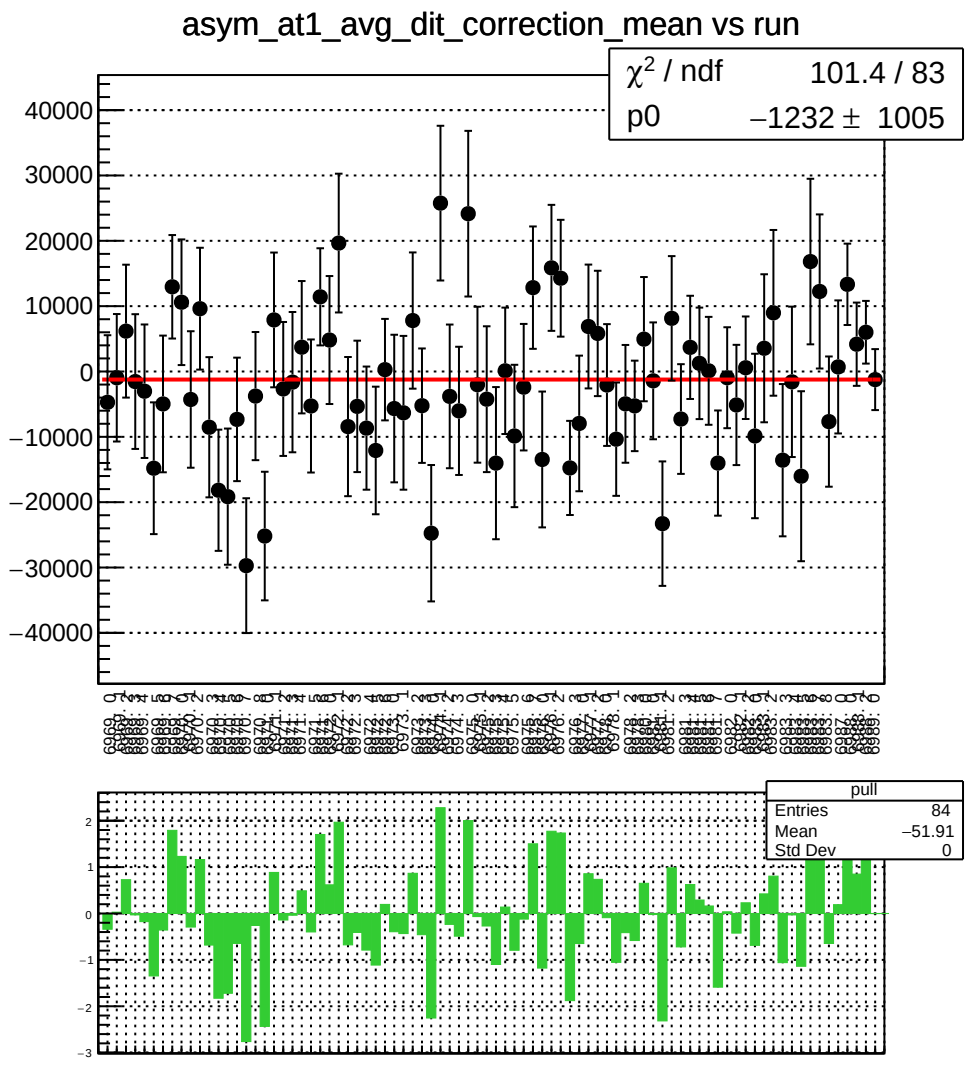

pull1D
Entries 84
Mean −0.06532
Std Dev 1.106

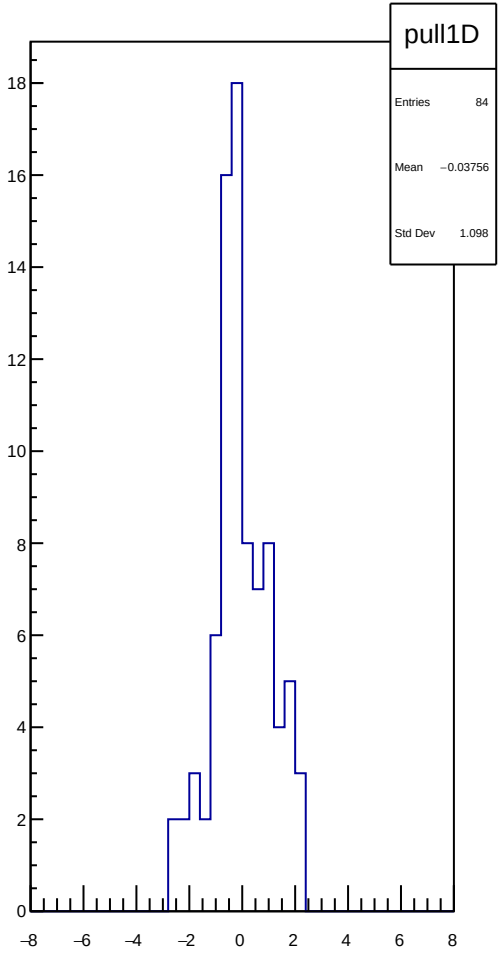

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.432e+05 / 83
p0 749.2 ± 0.6056
1200
1000
800
600
400

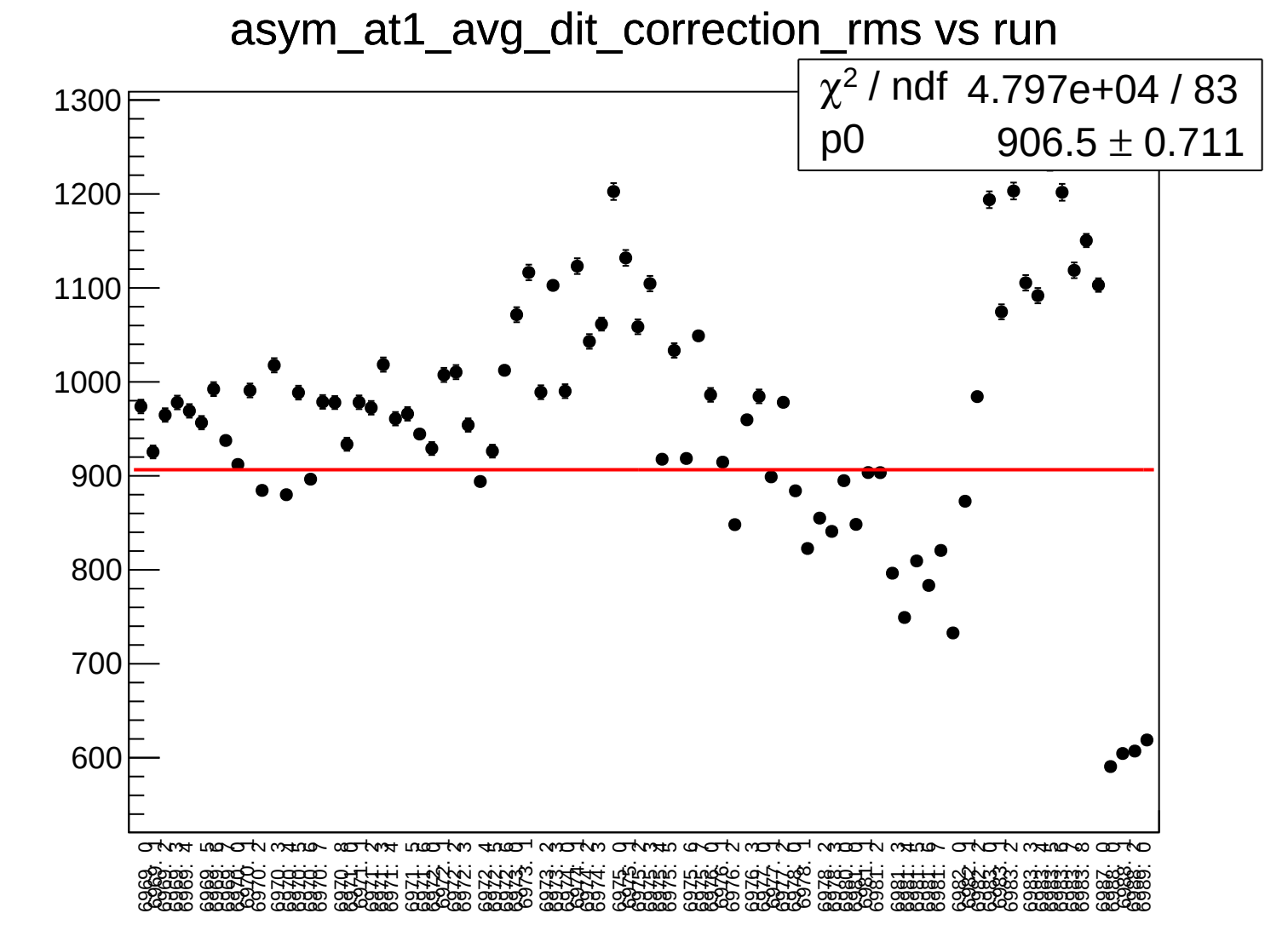

dit_asym_at1_avg_mean vs run
χ² / ndf 84.97 / 83
p0 3379 ± 2008
pull
Entries 84
Mean −349.4
Std Dev 0

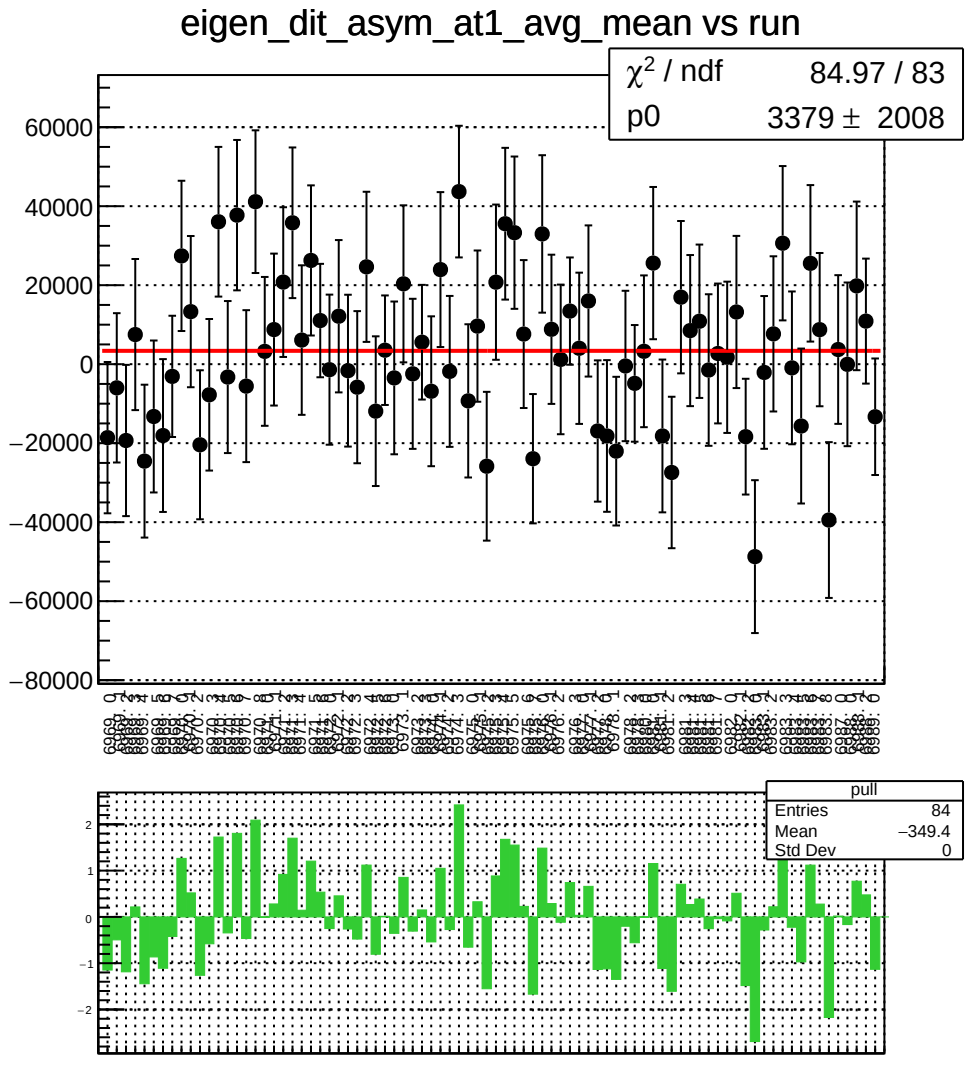

pull1D
Entries 84
Mean 0.005376
Std Dev 1.006

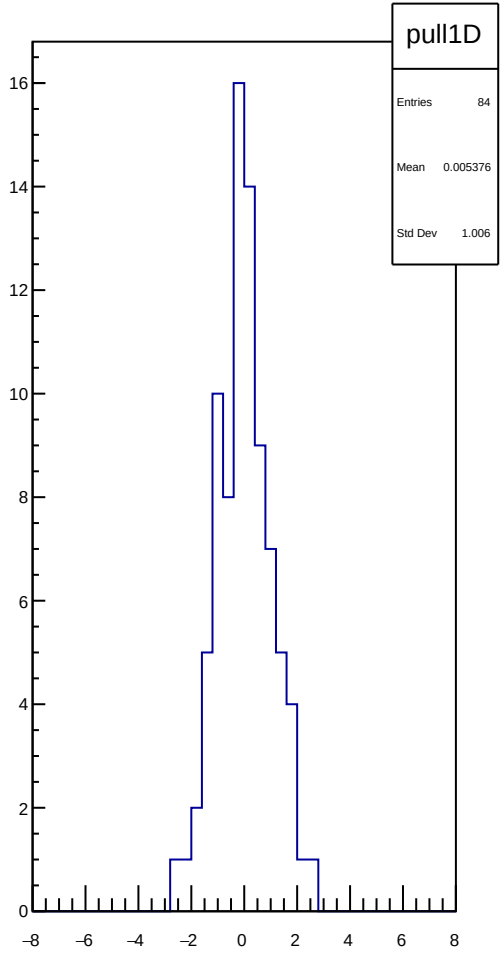

dit_asym_at1_avg_rms vs run
χ² / ndf 2160 / 83
p0 1836 ± 1.42
2300
2200
2100
2000
1900
1800

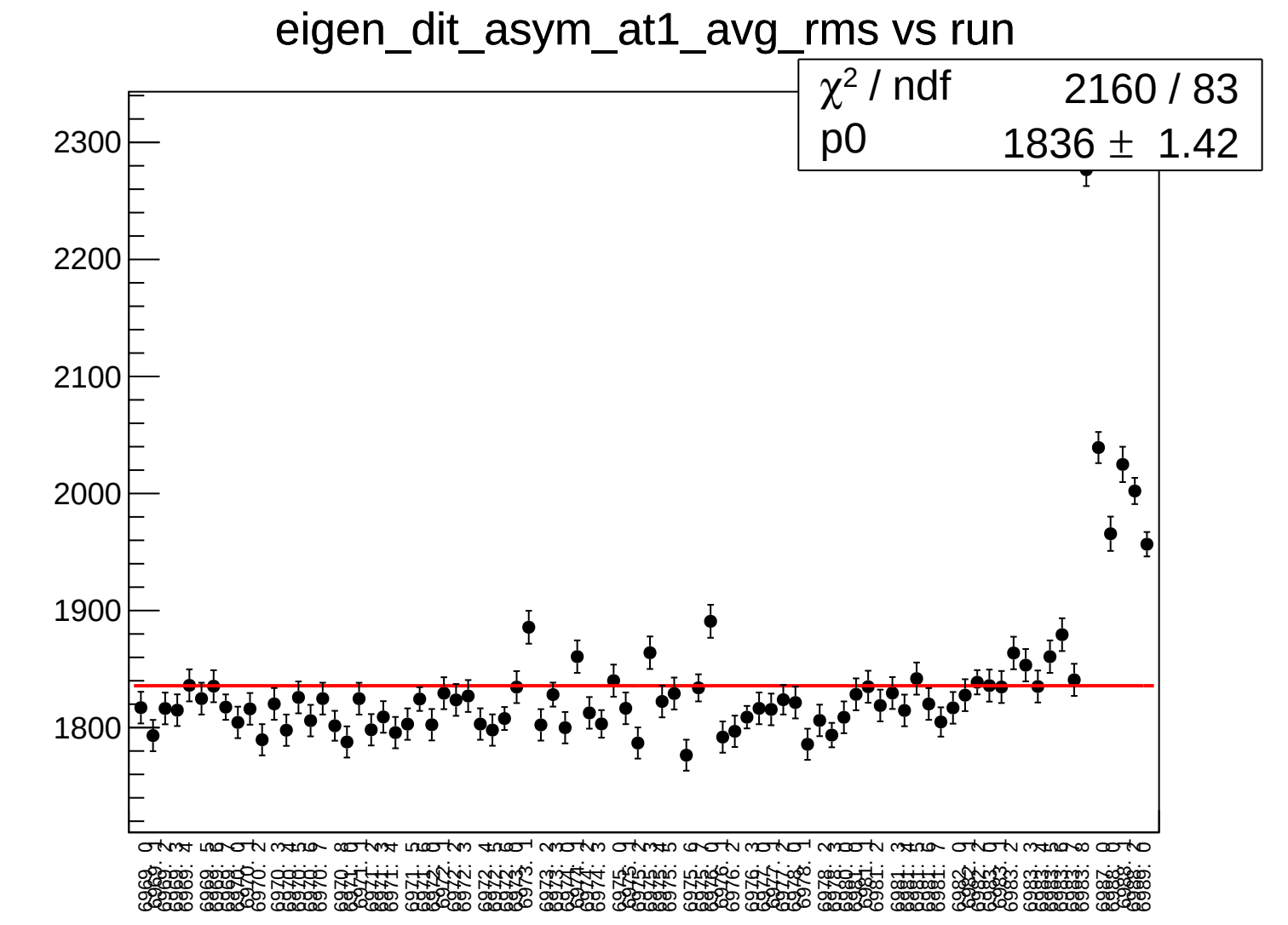

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 101.4 / 83
p0 −1232 ± 1005
pull
Entries 84
Mean −51.91
Std Dev 0

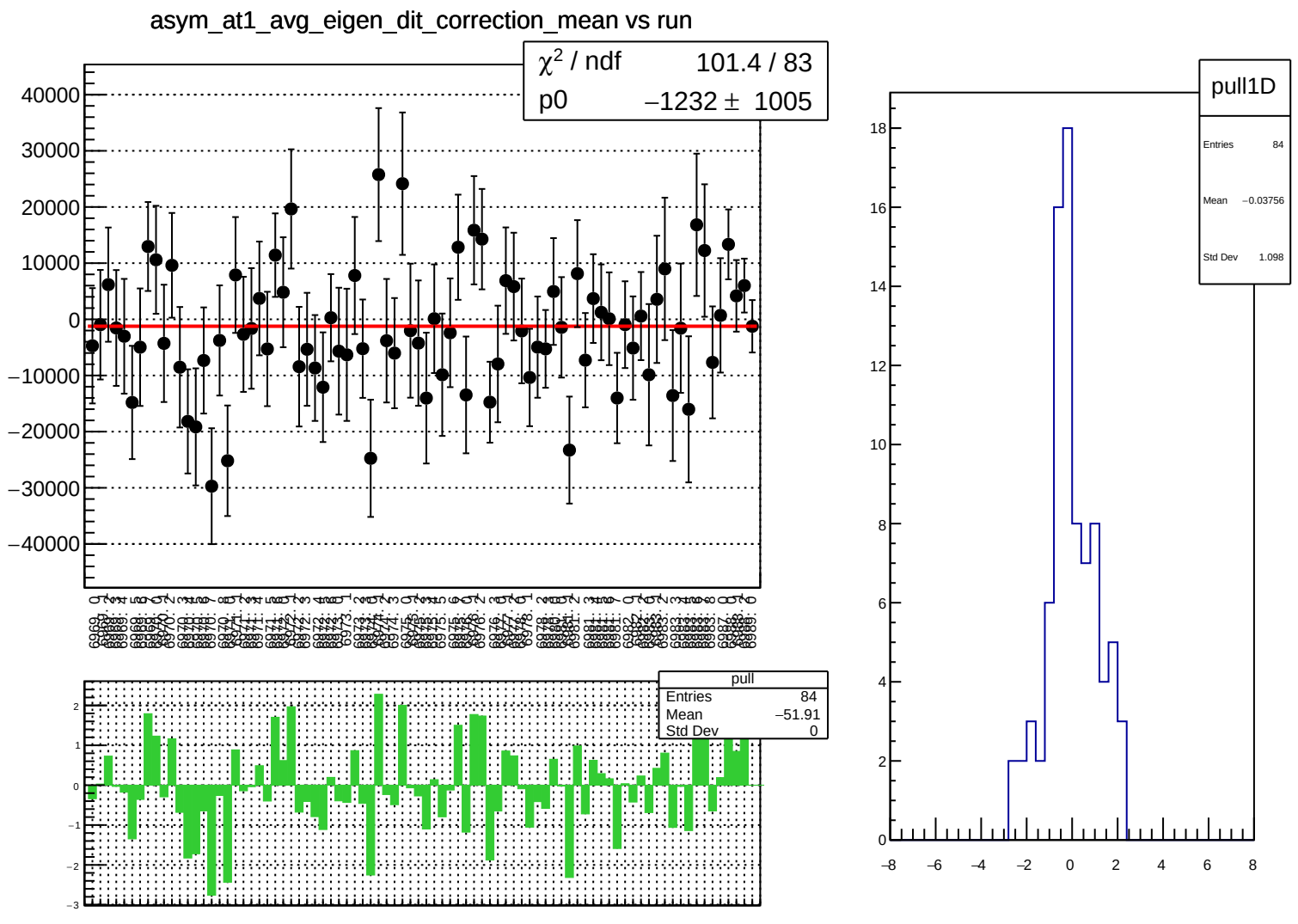

pull1D
Entries 84
Mean −0.03756
Std Dev 1.098

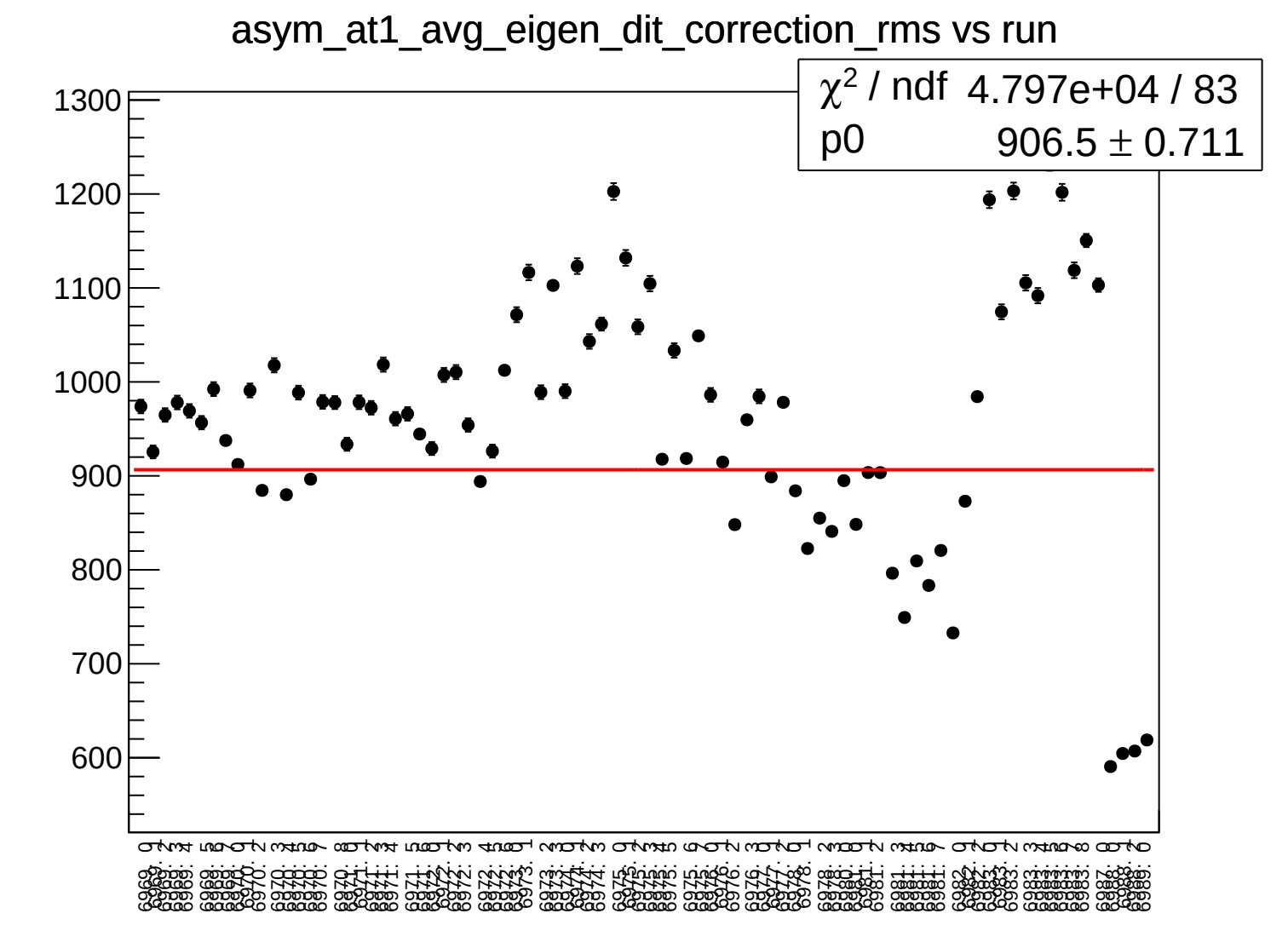

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 4.797e+04 / 83
p0 906.5 ± 0.711
1300
1200
1100
1000
900
800
700
600

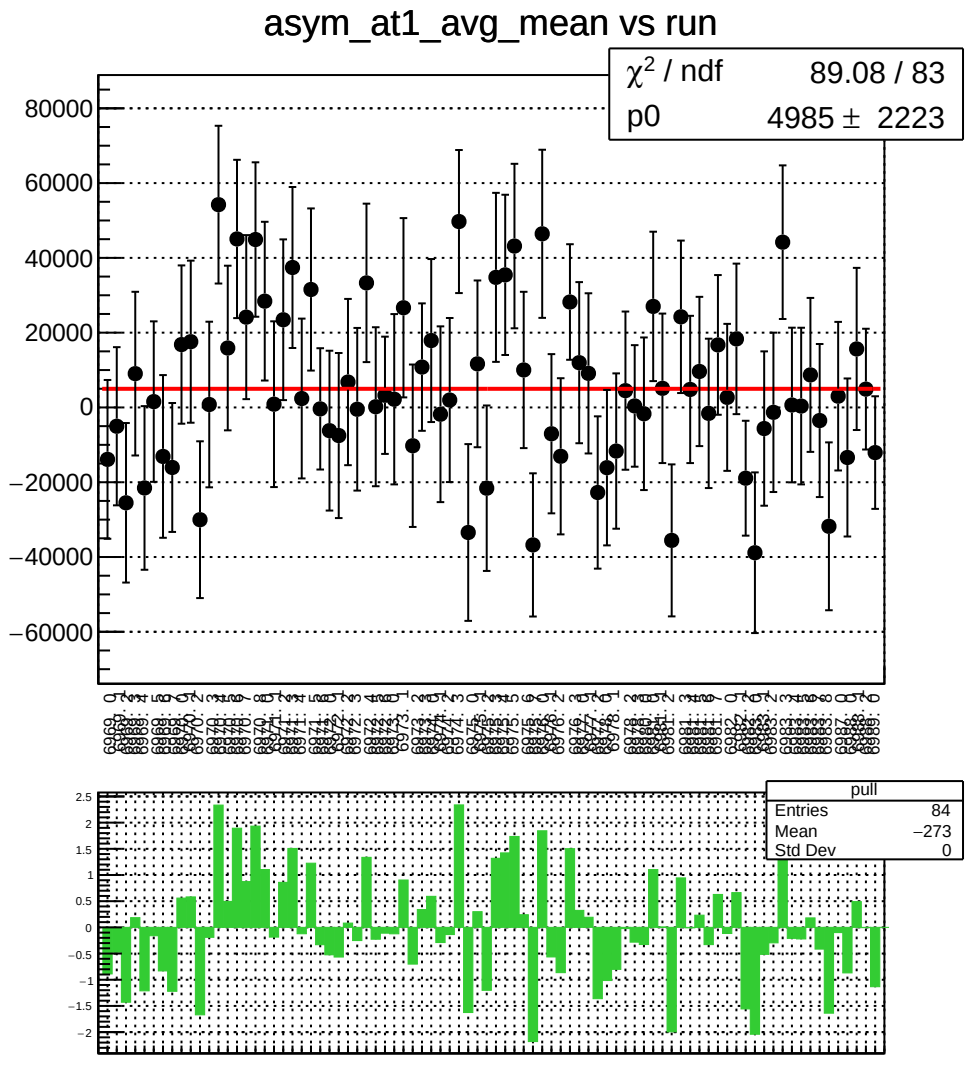

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 84.97 / 83
p0 3379 ± 2008
pull
Entries 84
Mean −349.4
Std Dev 0

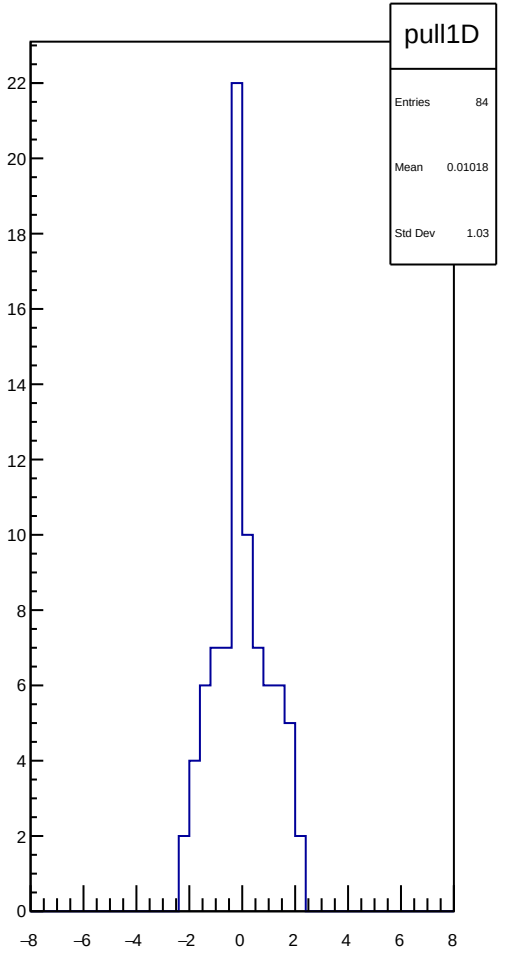

pull1D
Entries 84
Mean 0.005376
Std Dev 1.006

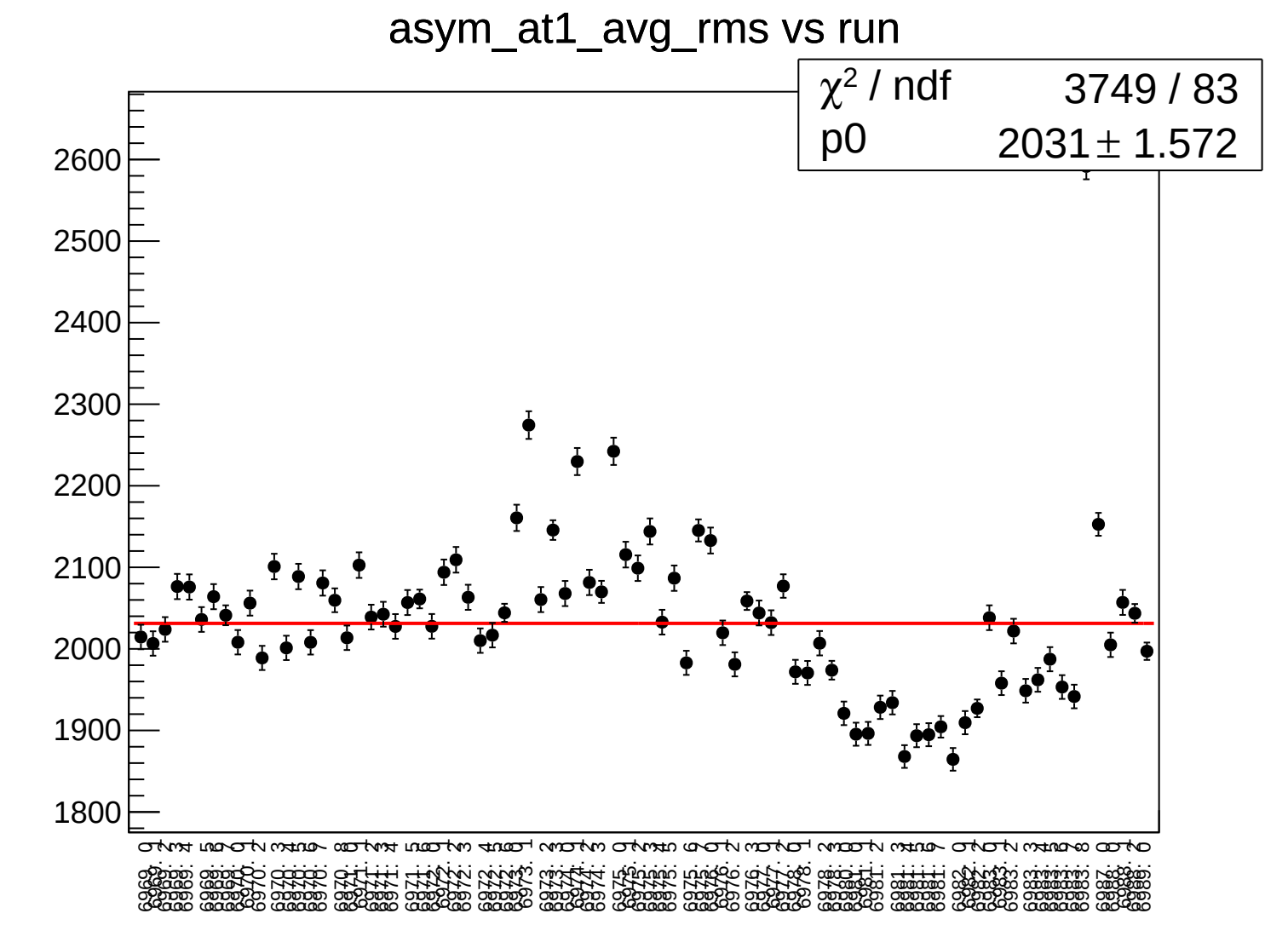

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 2160 / 83
p0 1836 ± 1.42
2300
2200
2100
2000
1900
1800

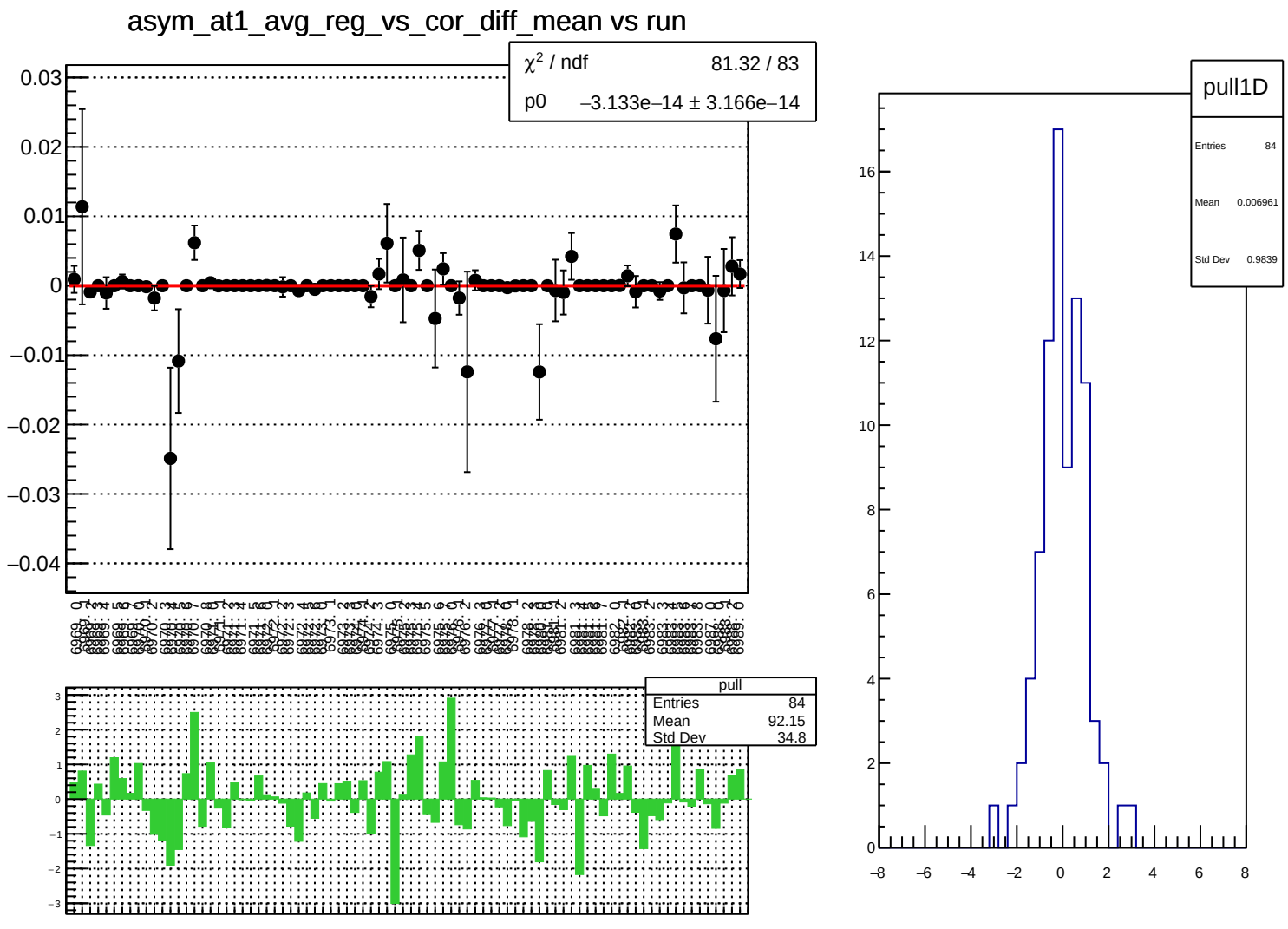

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.4 / 83
p0 −1232 ± 1005
pull
Entries 84
Mean −51.91
Std Dev 0
pull1D
Entries 84
Mean −0.03756
Std Dev 1.098

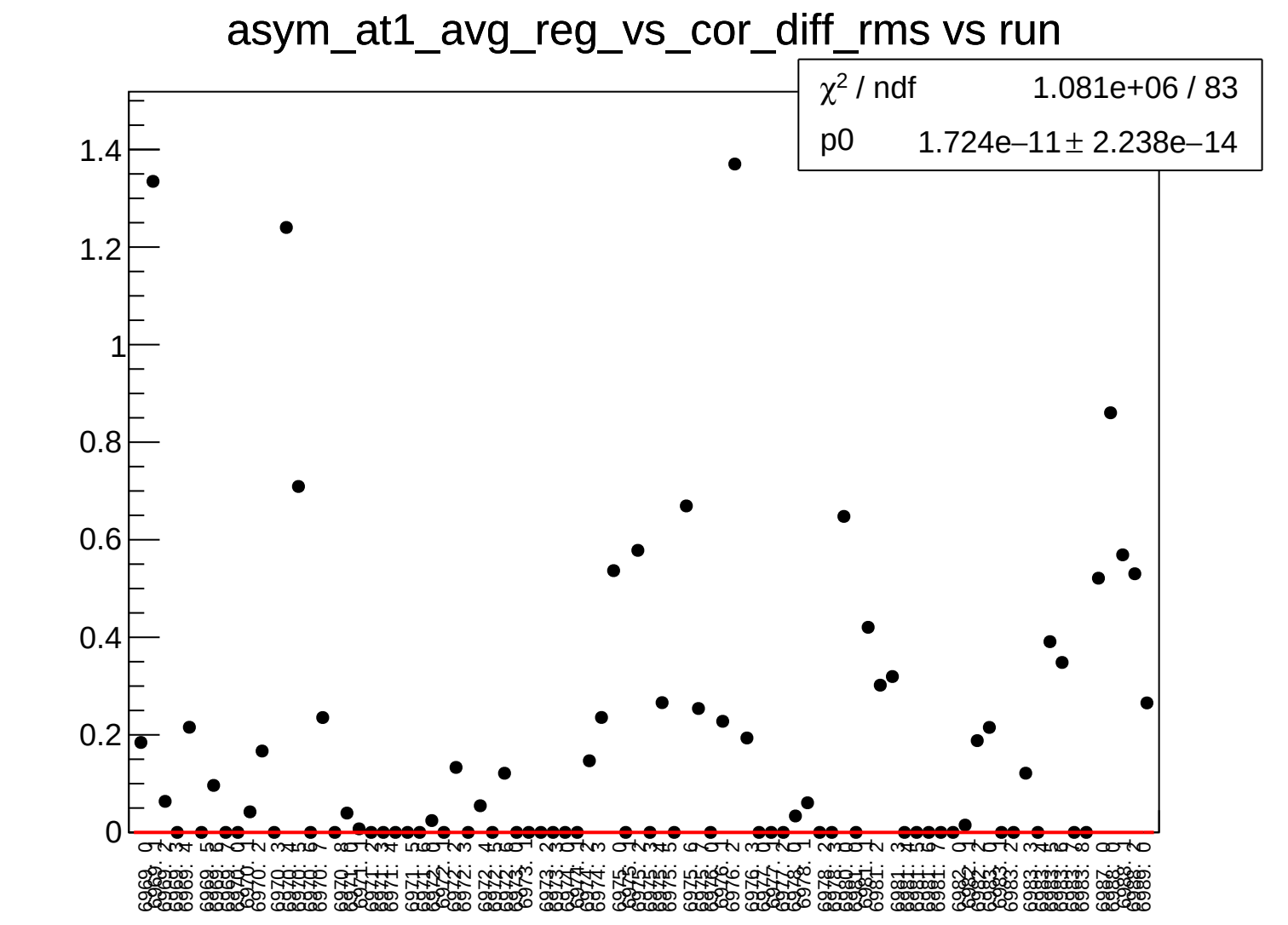

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.797e+04 / 83
p0 906.5 ± 0.711
1300
1200
1100
1000
900
800
700
600

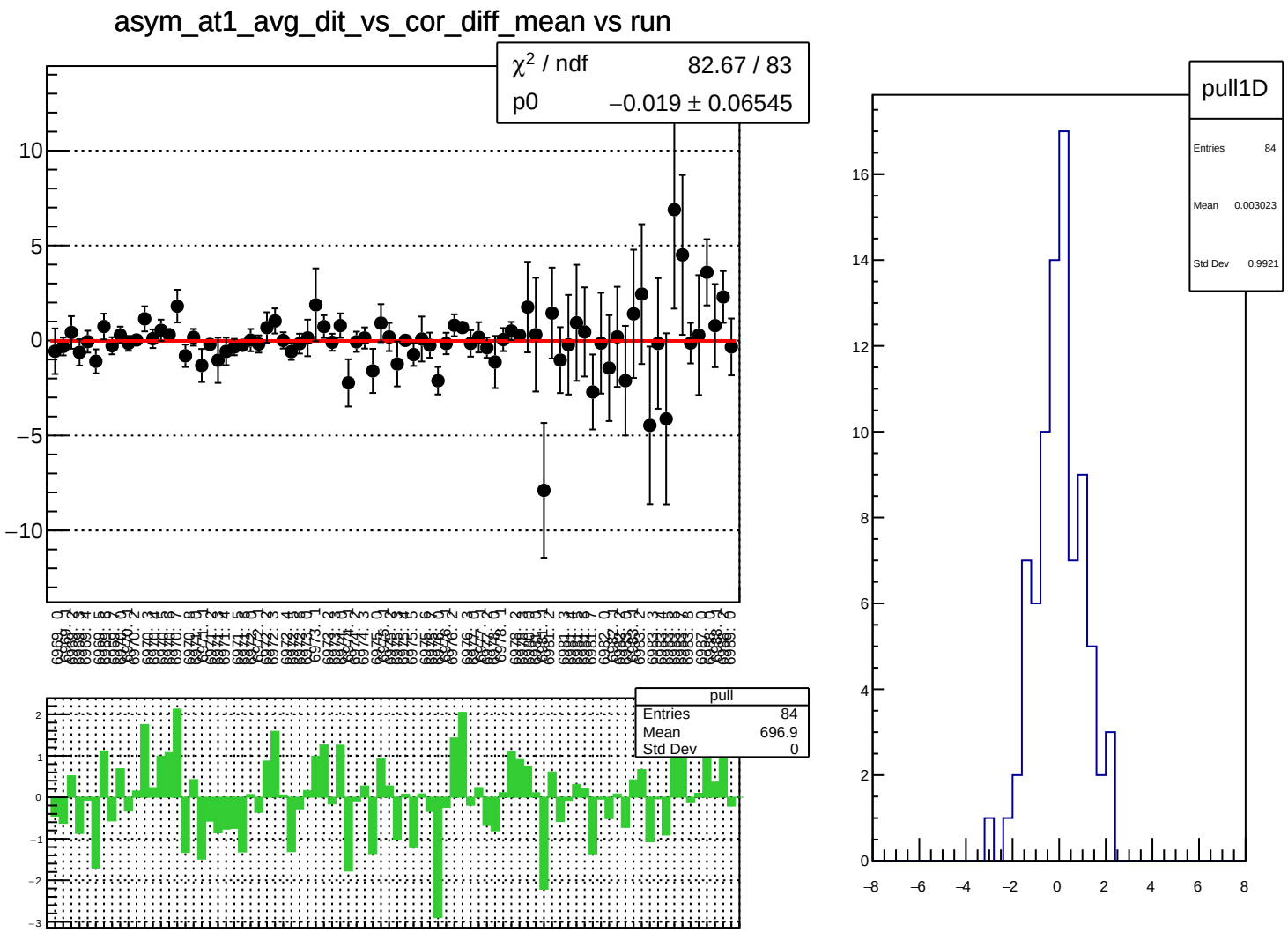

asym_at1_avg_mean vs run
χ² / ndf 89.08 / 83
p0 4985 ± 2223
pull
Entries 84
Mean −273
Std Dev 0

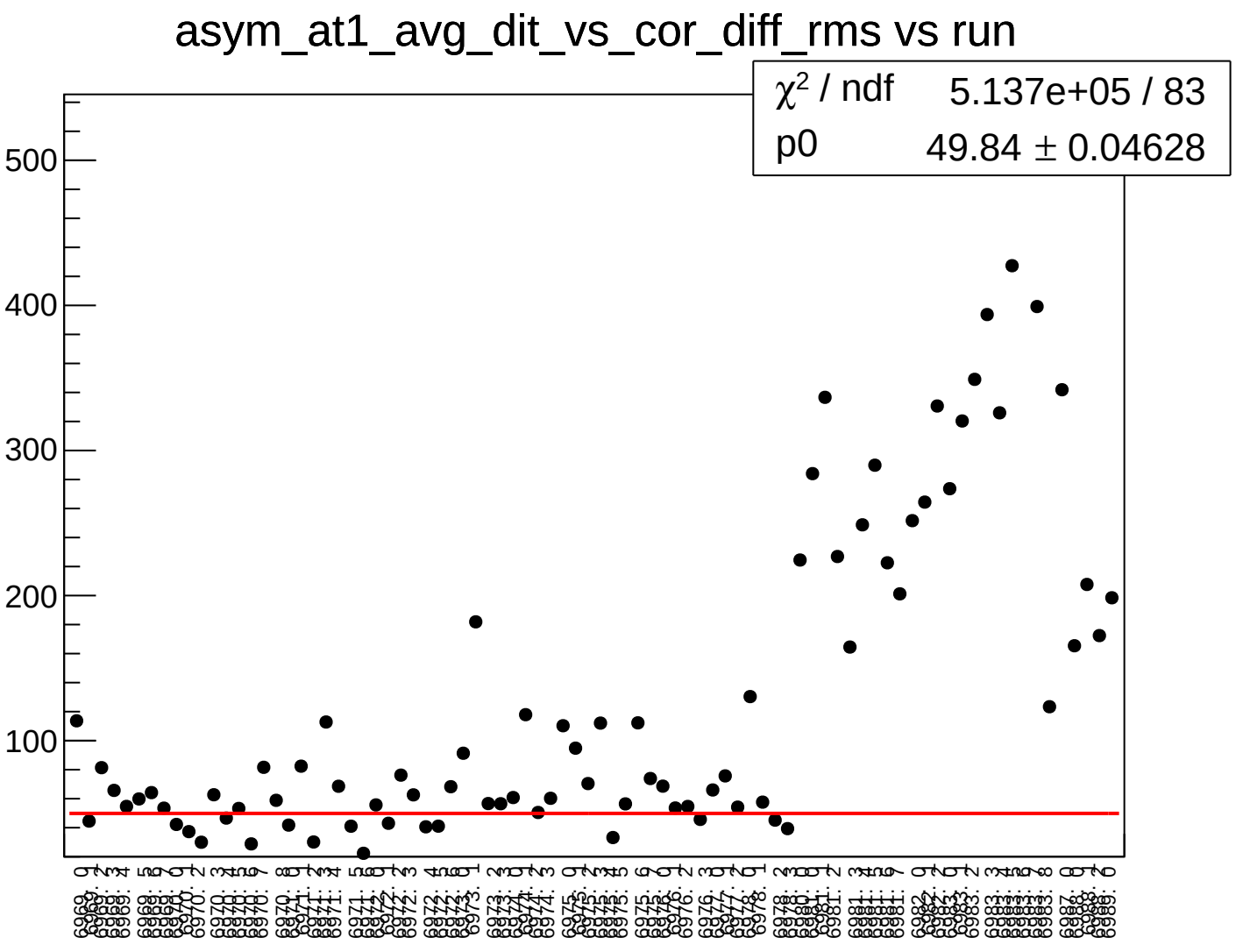

pull1D
Entries 84
Mean 0.01018
Std Dev 1.03

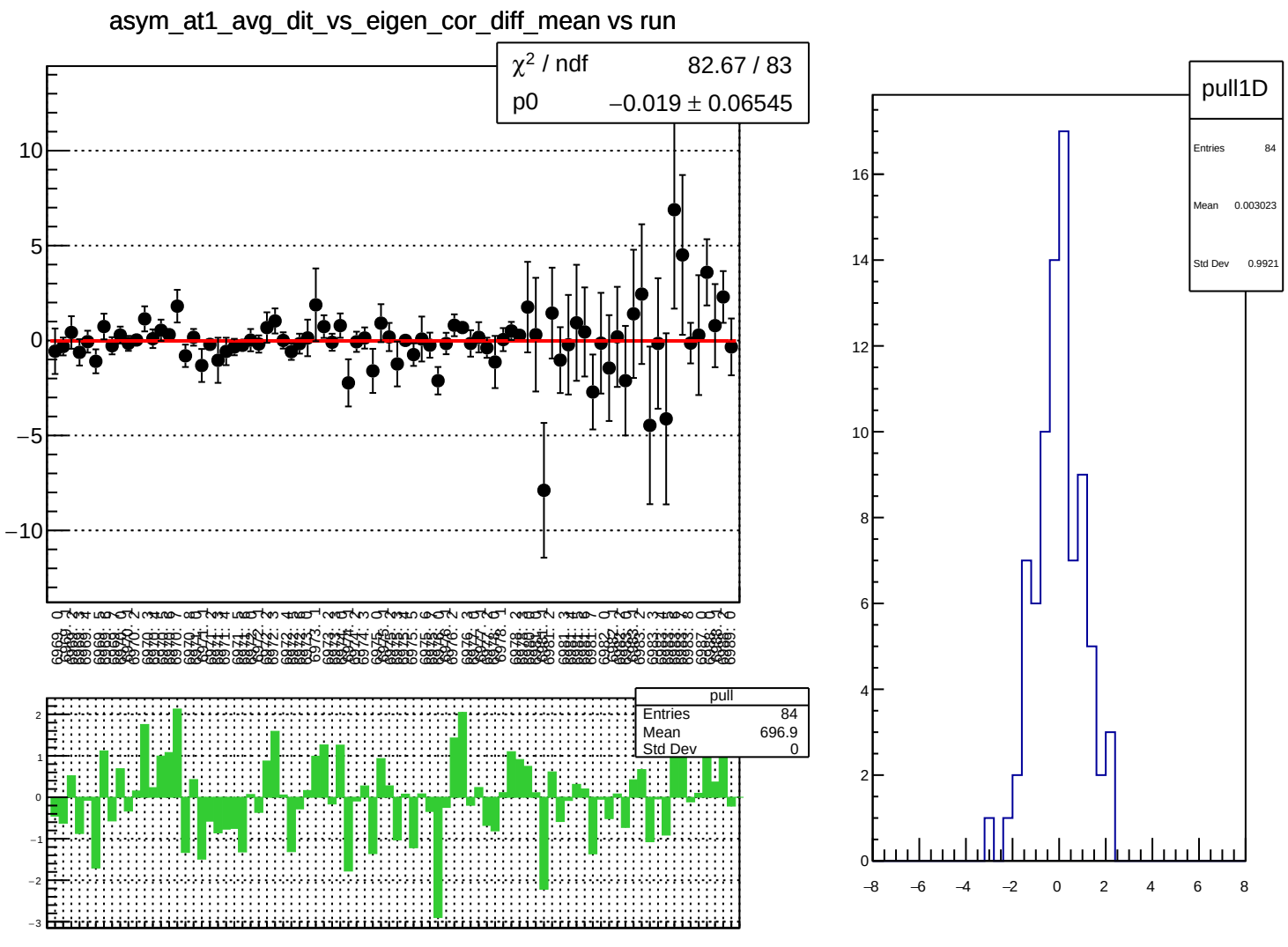

asym_at1_avg_rms vs run
χ² / ndf 3749 / 83
p0 2031 ± 1.572
2600
2500
2400
2300
2200
2100
2000
1900
1800

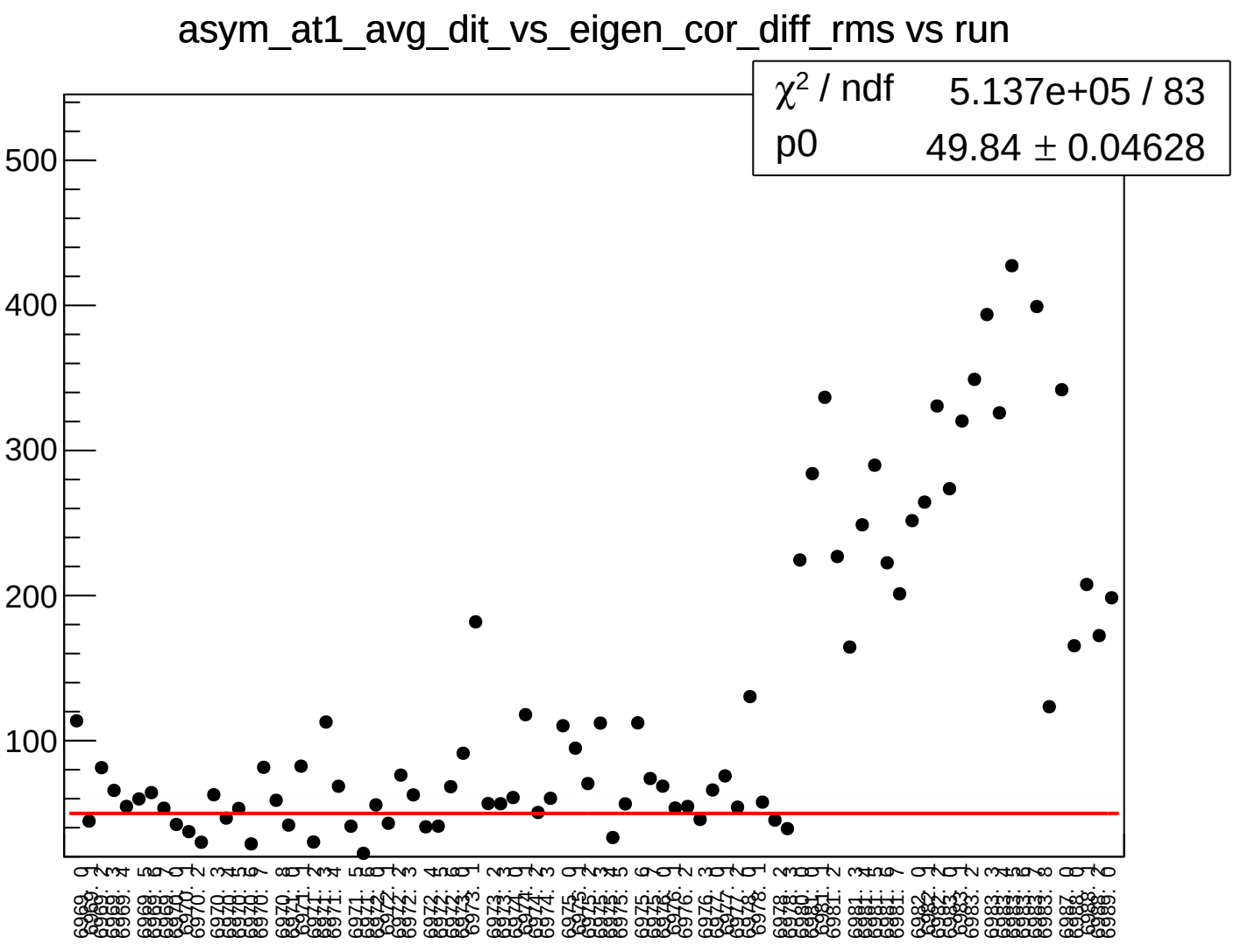

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.32 / 83
p0 −3.133e−14 ± 3.166e−14
pull
Entries 84
Mean 92.15
Std Dev 34.8
pull1D
Entries 84
Mean 0.006961
Std Dev 0.9839

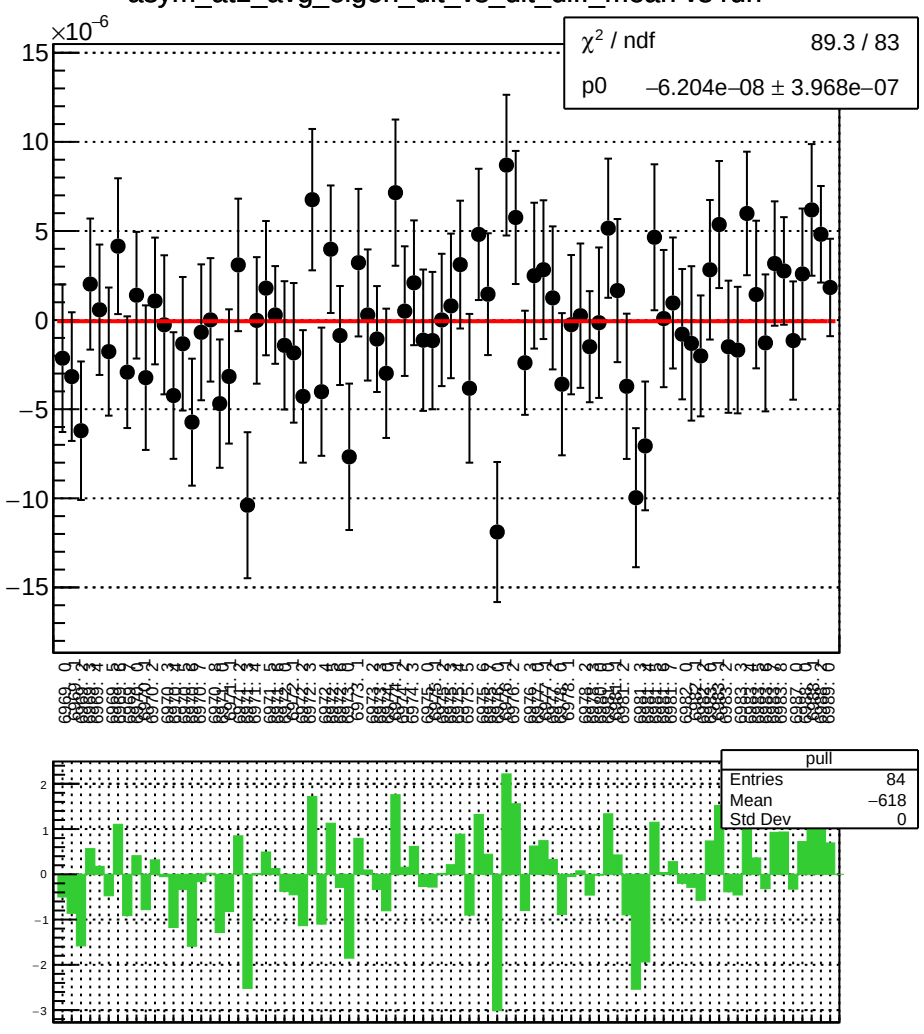

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.081e+06 / 83
p0 1.724e−11 ± 2.238e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

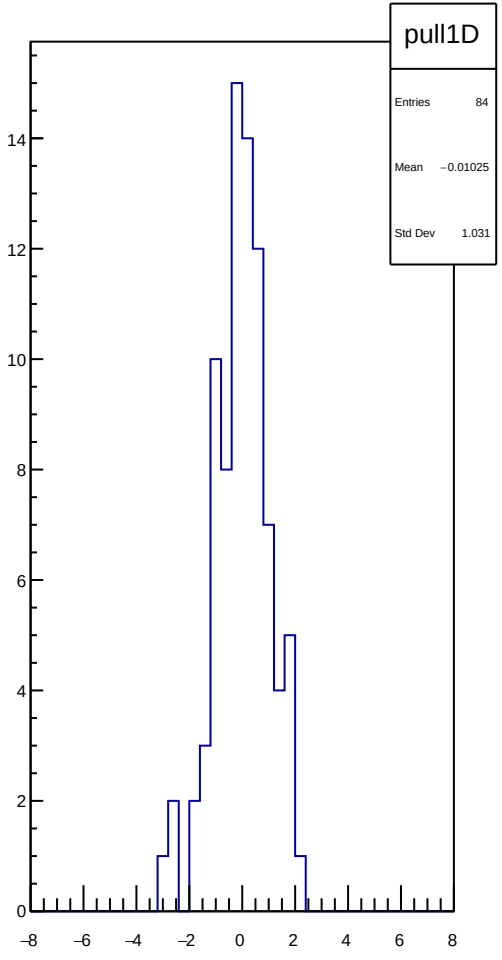

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.67 / 83
p0 −0.019 ± 0.06545
pull
Entries 84
Mean 696.9
Std Dev 0
pull1D
Entries 84
Mean 0.003023
Std Dev 0.9921

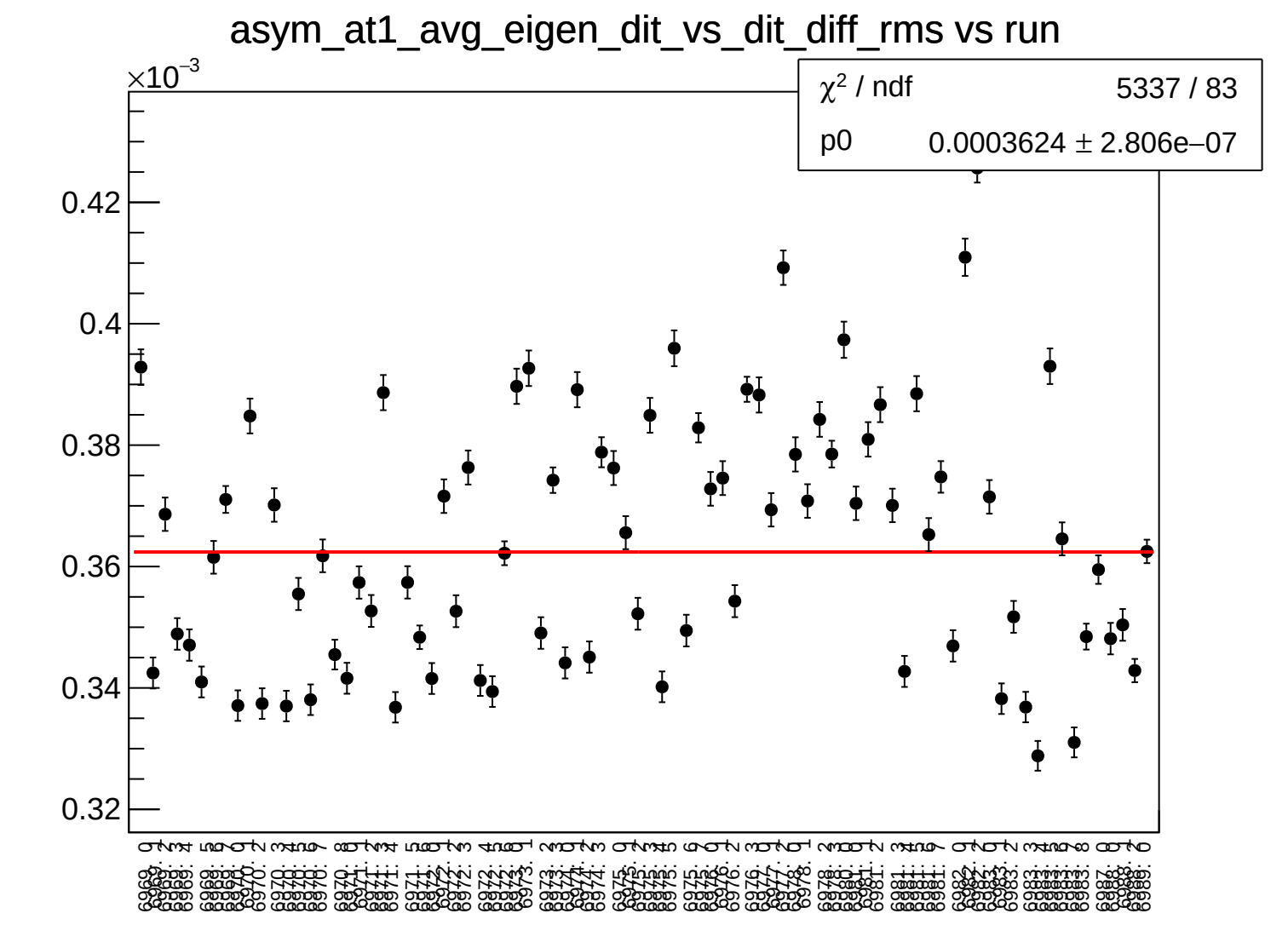

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.137e+05 / 83
p0 49.84 ± 0.04628
500
400
300
200
100

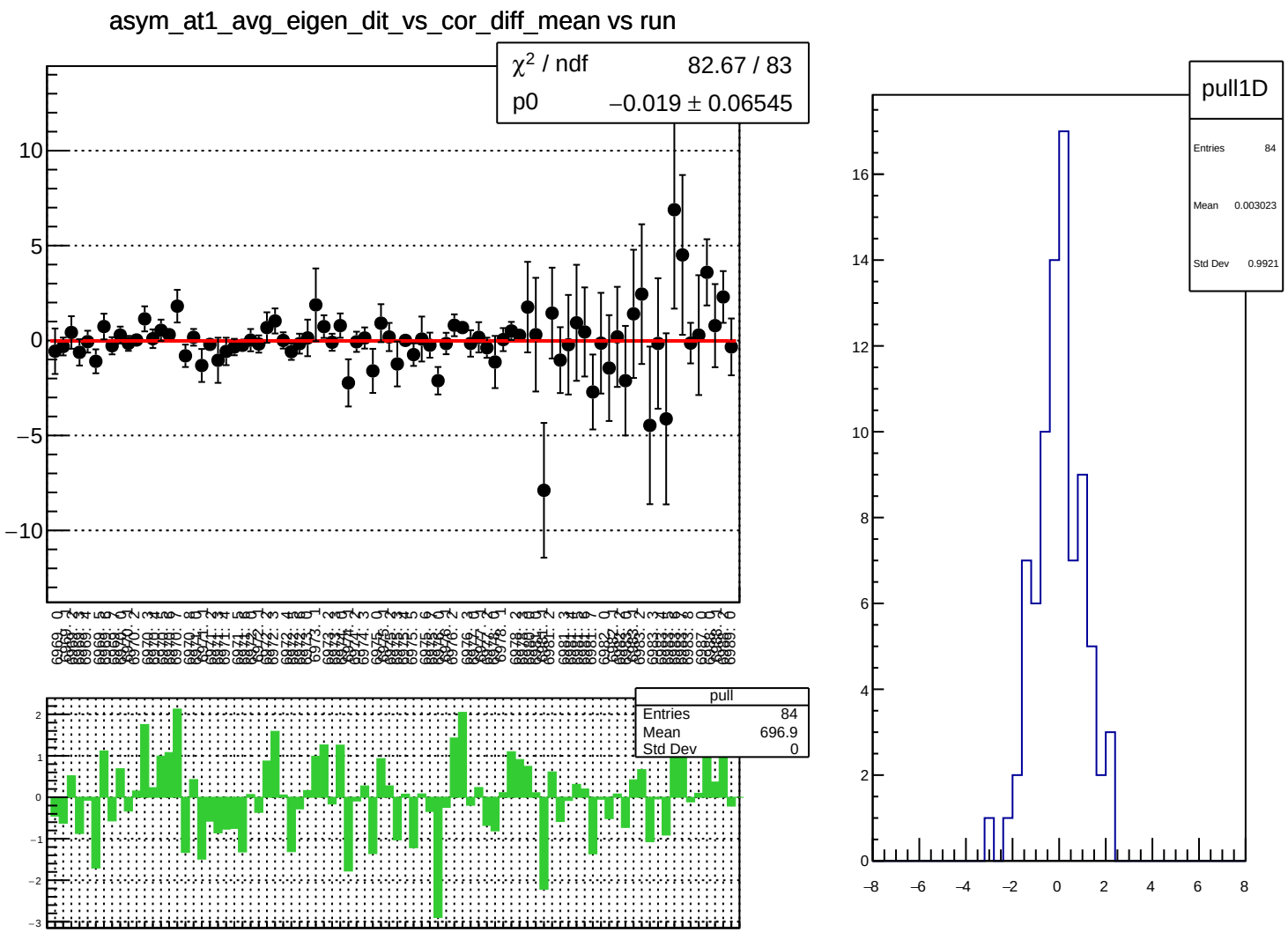

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.67 / 83
p0 −0.019 ± 0.06545
pull
Entries 84
Mean 696.9
Std Dev 0
pull1D
Entries 84
Mean 0.003023
Std Dev 0.9921

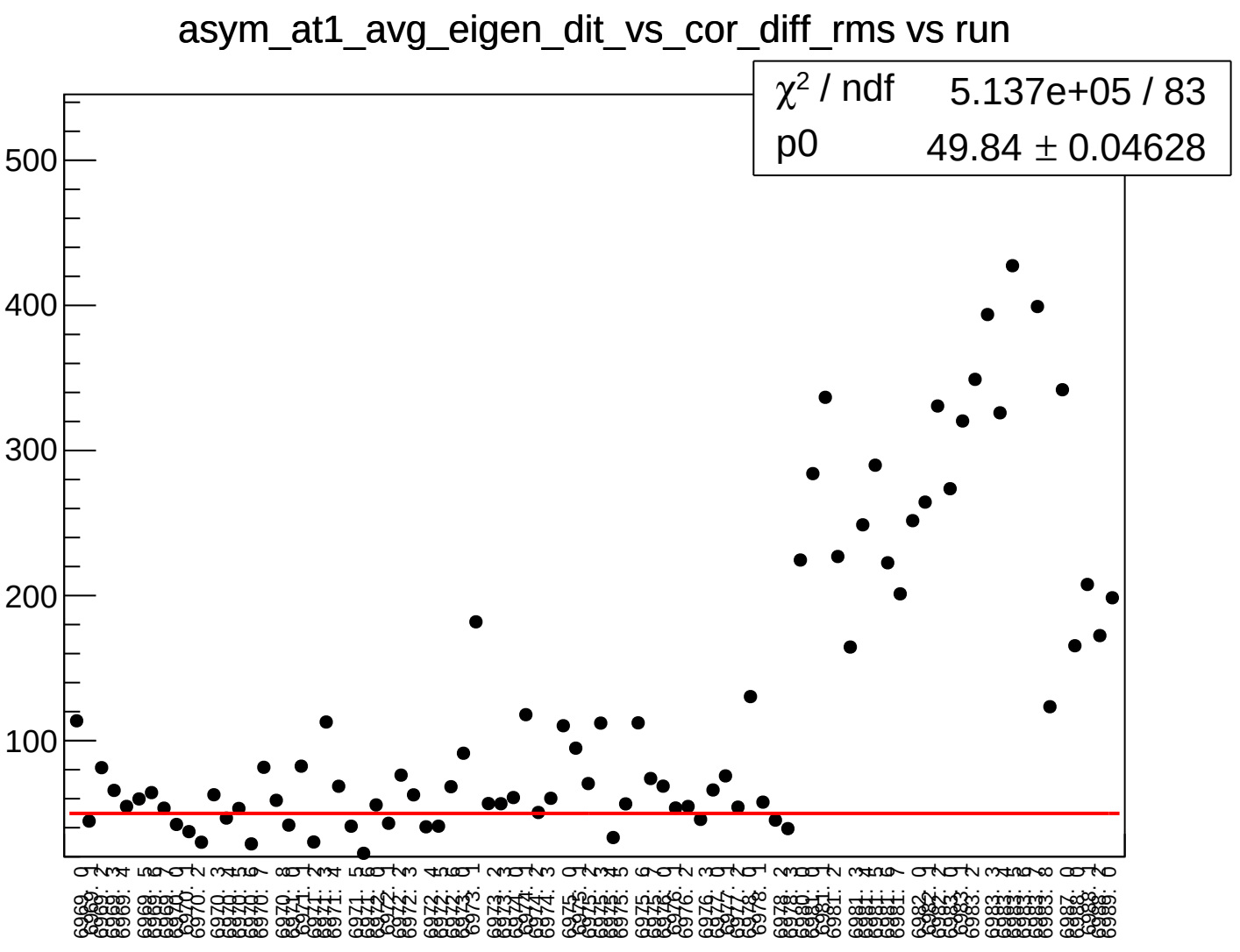

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.137e+05 / 83
p0 49.84 ± 0.04628
500
400
300
200
100

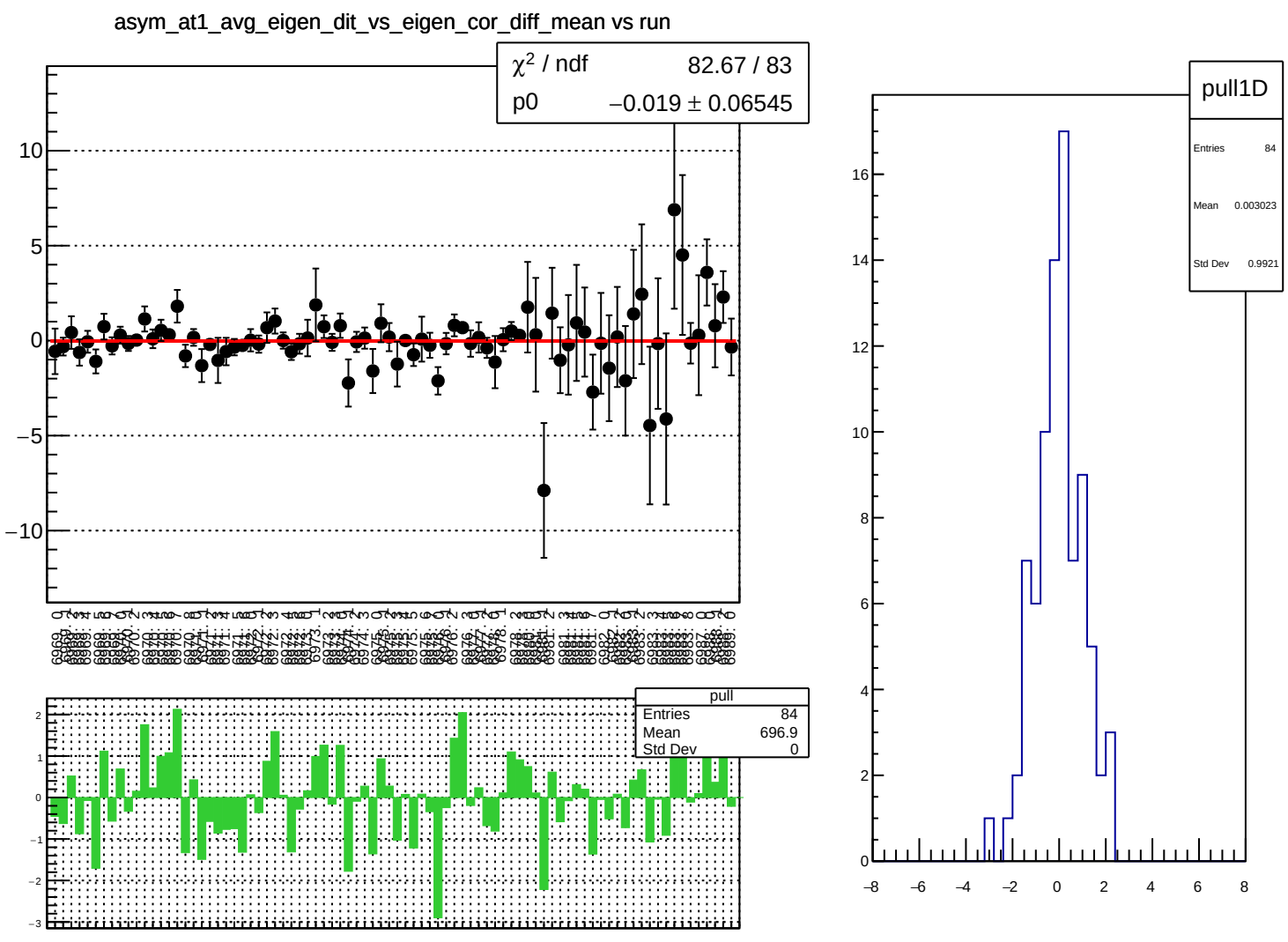

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 89.3 / 83
p0 −6.204e−08 ± 3.968e−07
pull
Entries 84
Mean −618
Std Dev 0

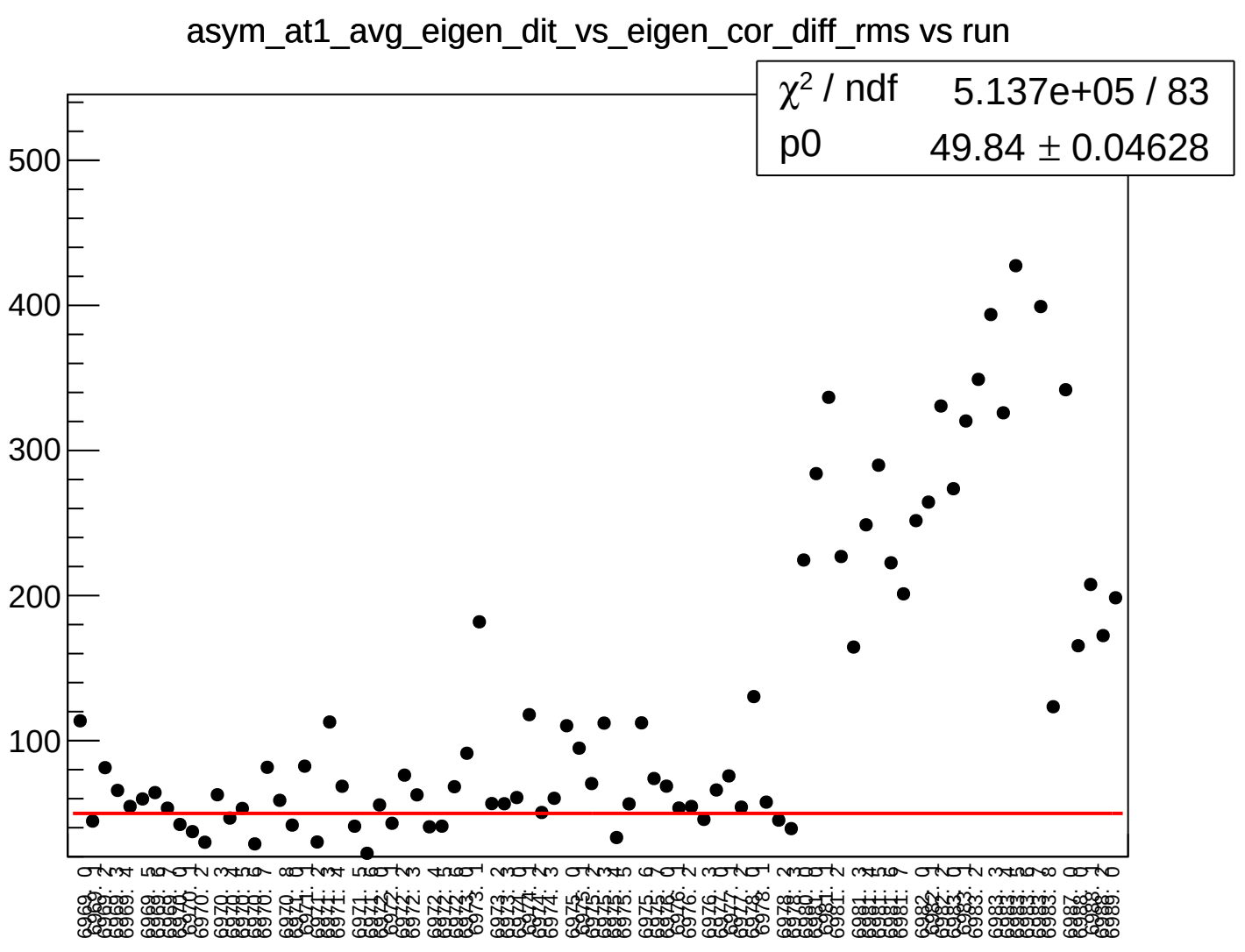

pull1D
Entries 84
Mean −0.01025
Std Dev 1.031

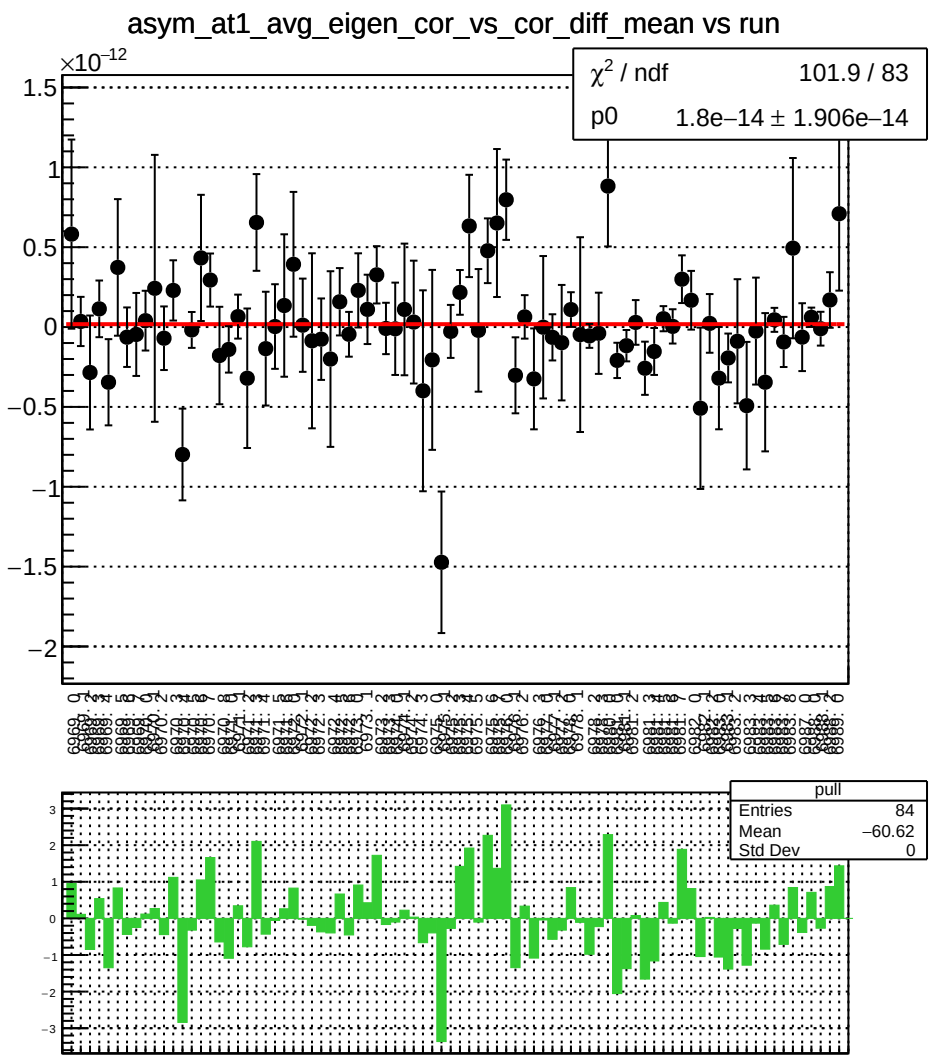

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 5337 / 83
p0 0.0003624 ± 2.806e−07
0.42
0.4
0.38
0.36
0.34
0.32

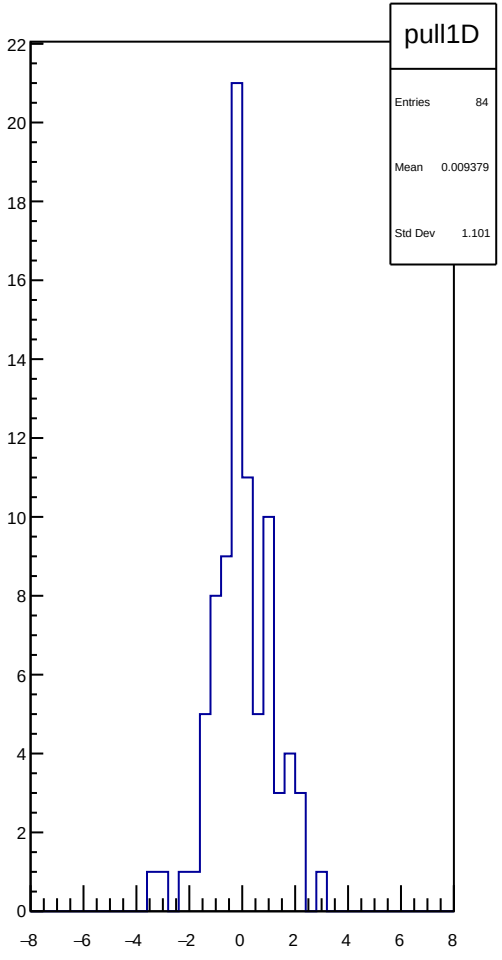

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.67 / 83
p0 −0.019 ± 0.06545
pull
Entries 84
Mean 696.9
Std Dev 0
pull1D
Entries 84
Mean 0.003023
Std Dev 0.9921

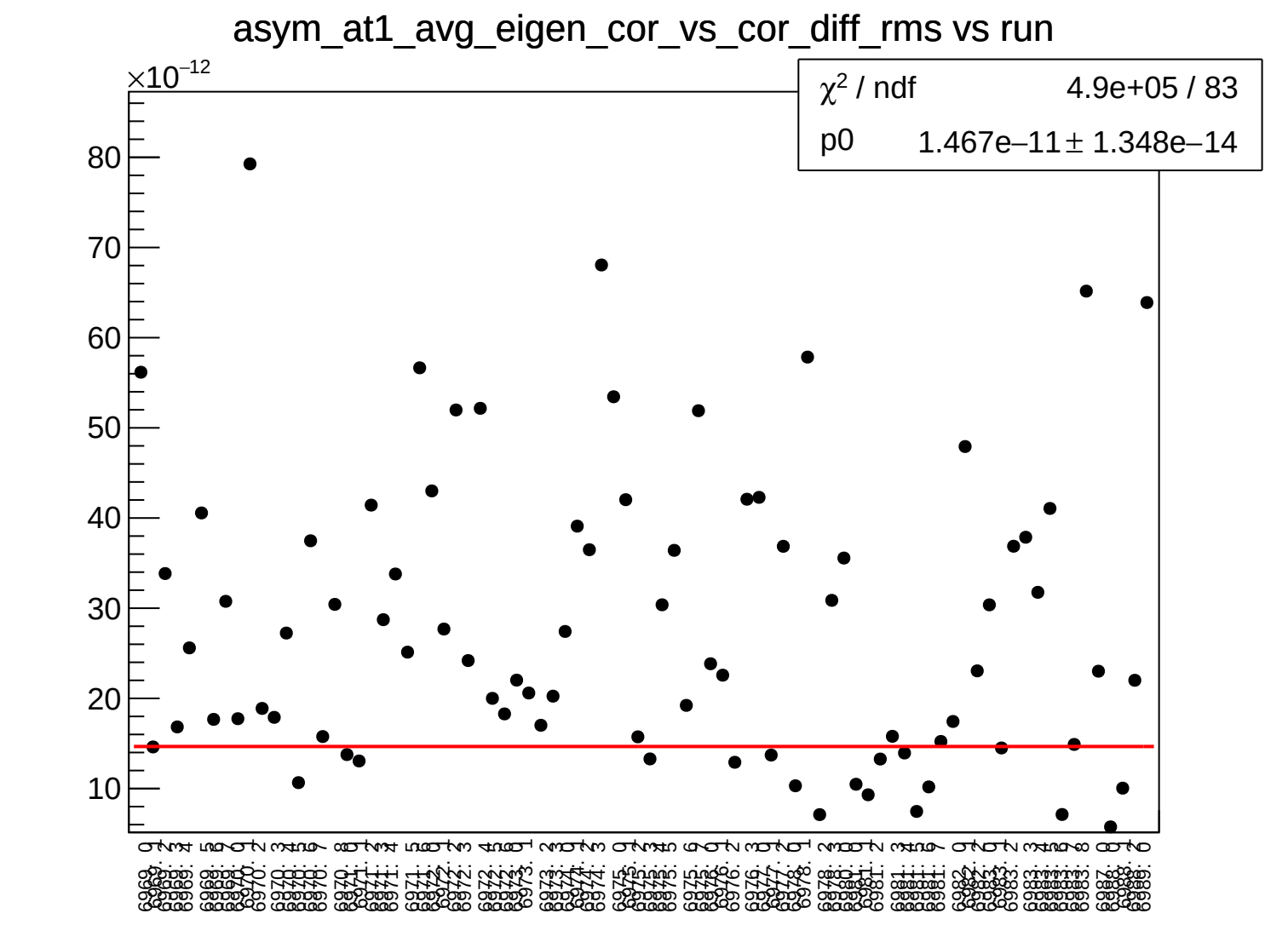

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.137e+05 / 83
p0 49.84 ± 0.04628
500
400
300
200
100

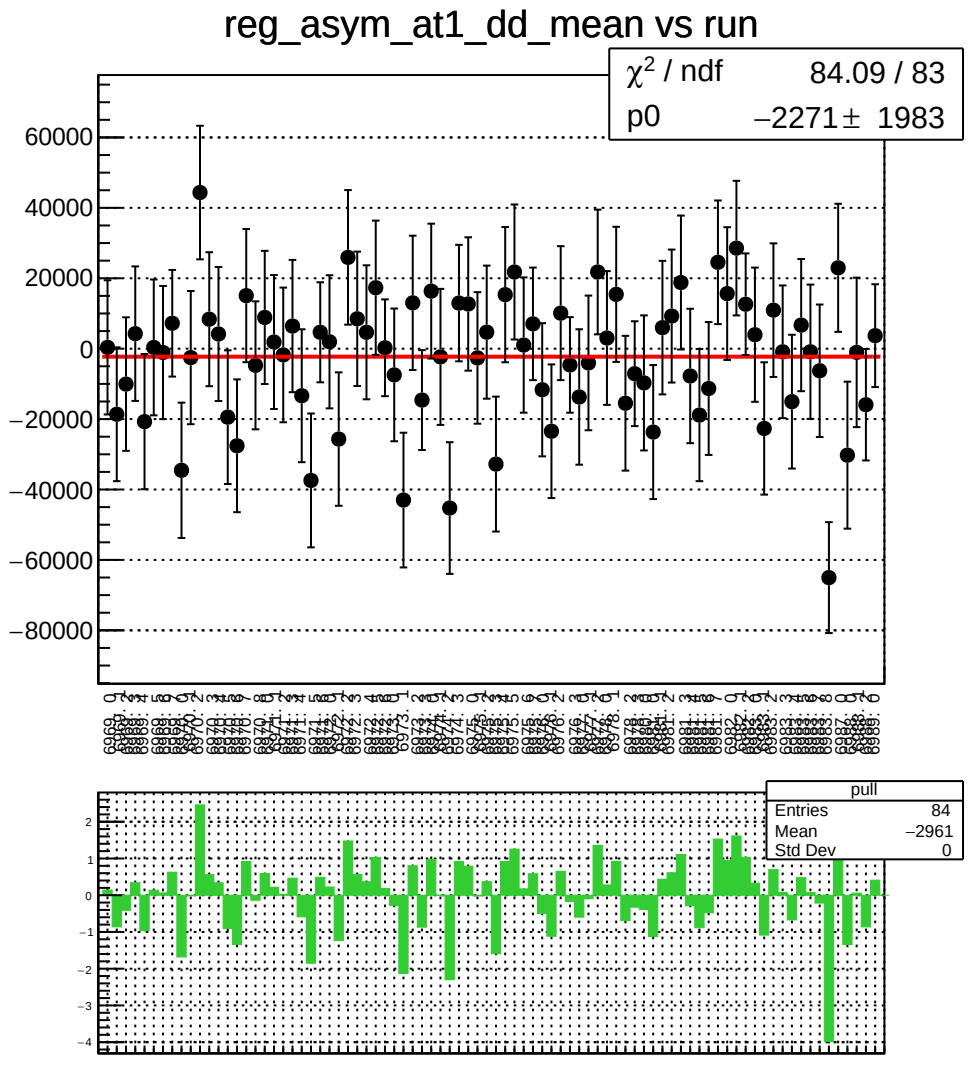

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.67 / 83
p0 −0.019 ± 0.06545
pull
Entries 84
Mean 696.9
Std Dev 0
pull1D
Entries 84
Mean 0.003023
Std Dev 0.9921

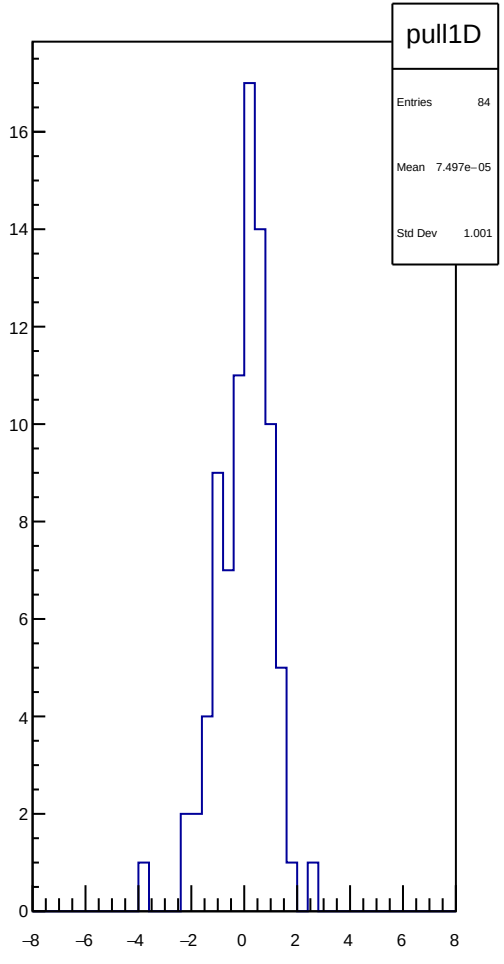

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.137e+05 / 83
p0 49.84 ± 0.04628
500
400
300
200
100

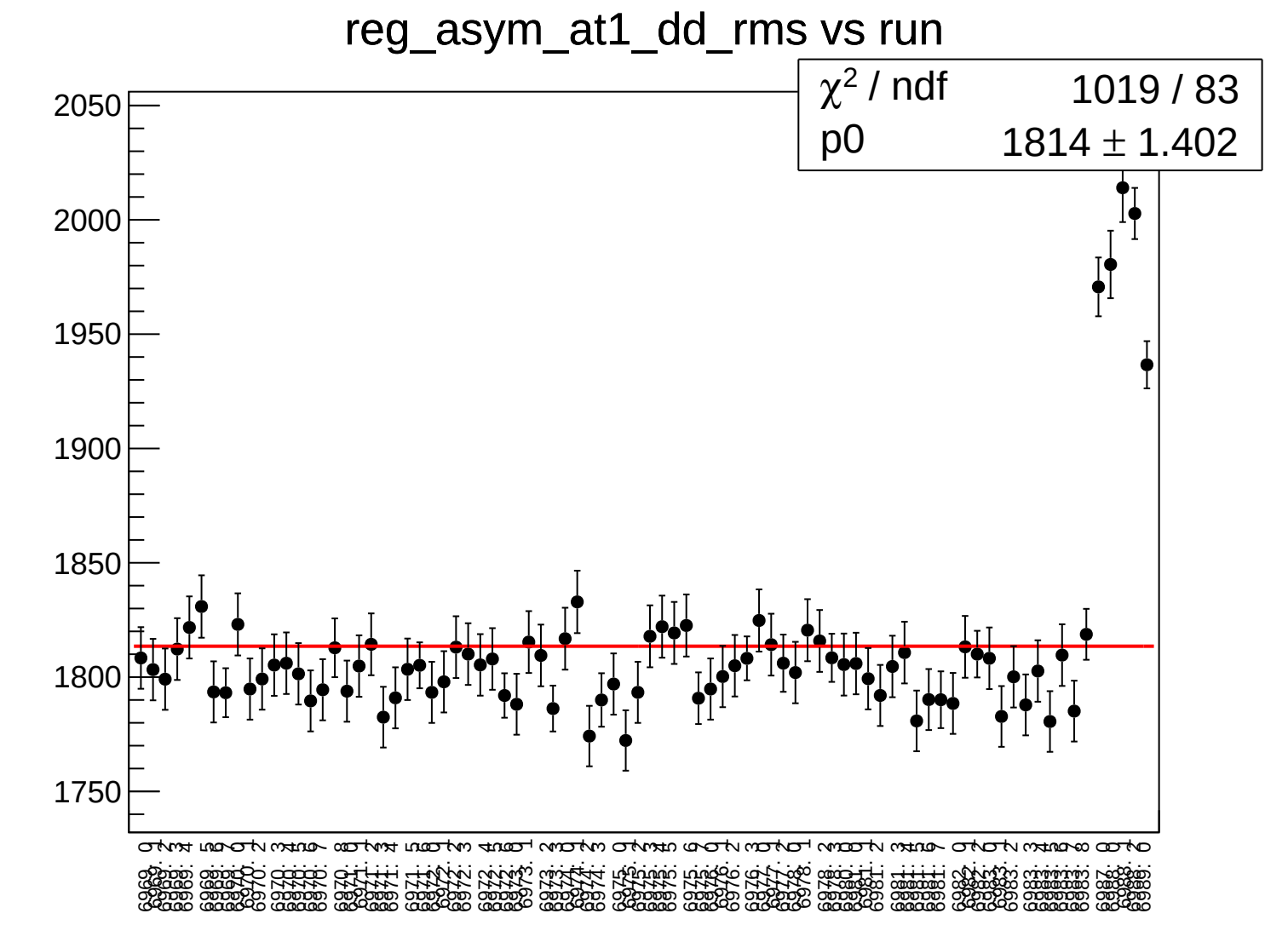

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.9 / 83
p0 1.8e−14 ± 1.906e−14
pull
Entries 84
Mean −60.62
Std Dev 0

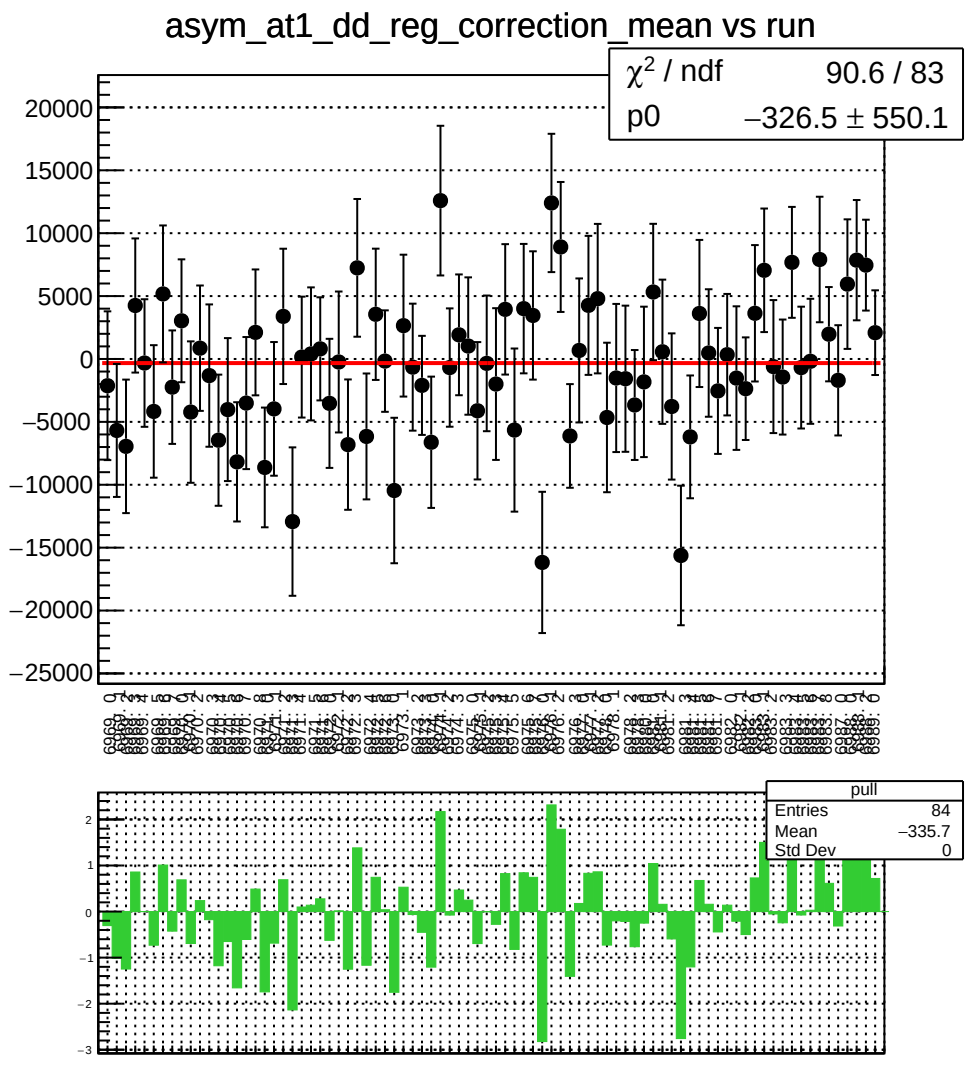

pull1D
Entries 84
Mean 0.009379
Std Dev 1.101

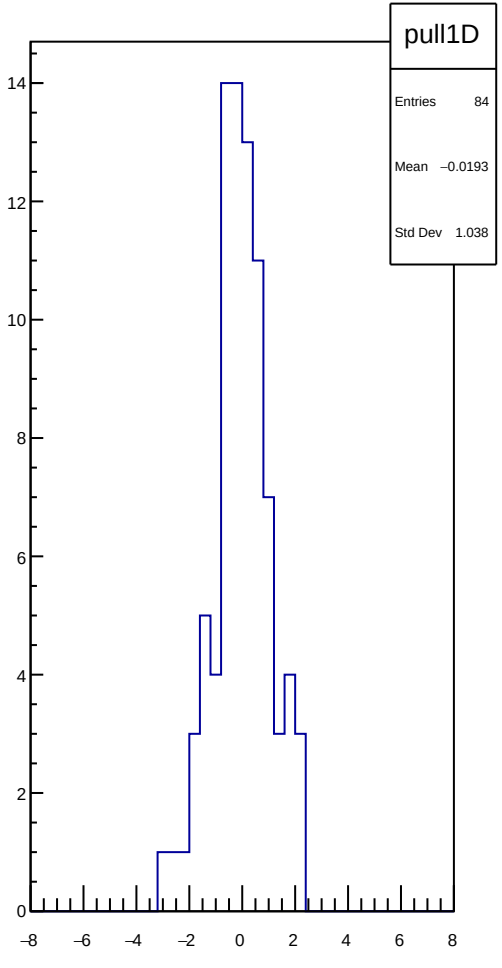

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.9e+05 / 83
p0 1.467e−11 ± 1.348e−14
80
70
60
50
40
30
20
10

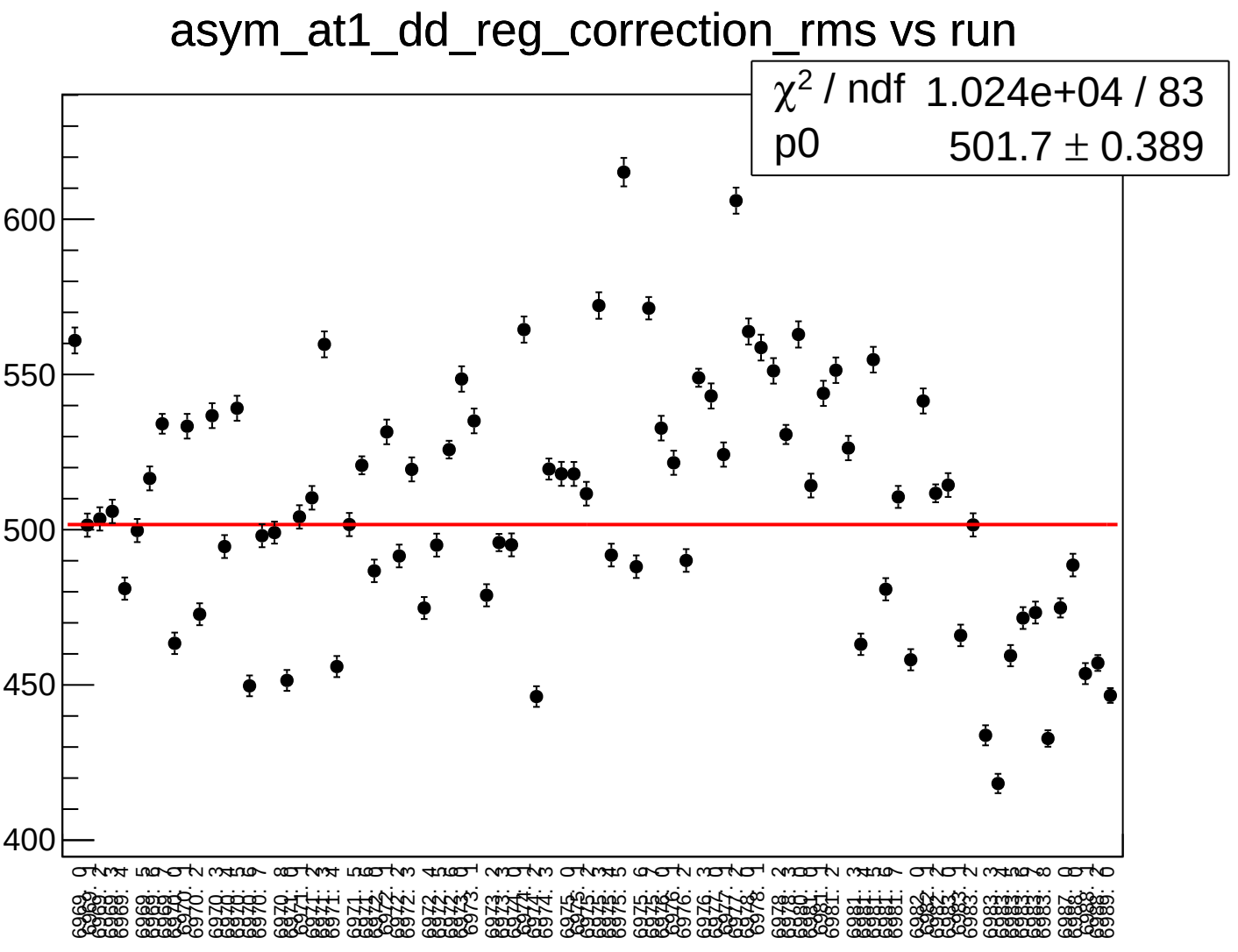

reg_asym_at1_dd_mean vs run
χ² / ndf 84.09 / 83
p0 −2271 ± 1983
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −2961
Std Dev 0
2
1
0
−1
−2
−3
−4

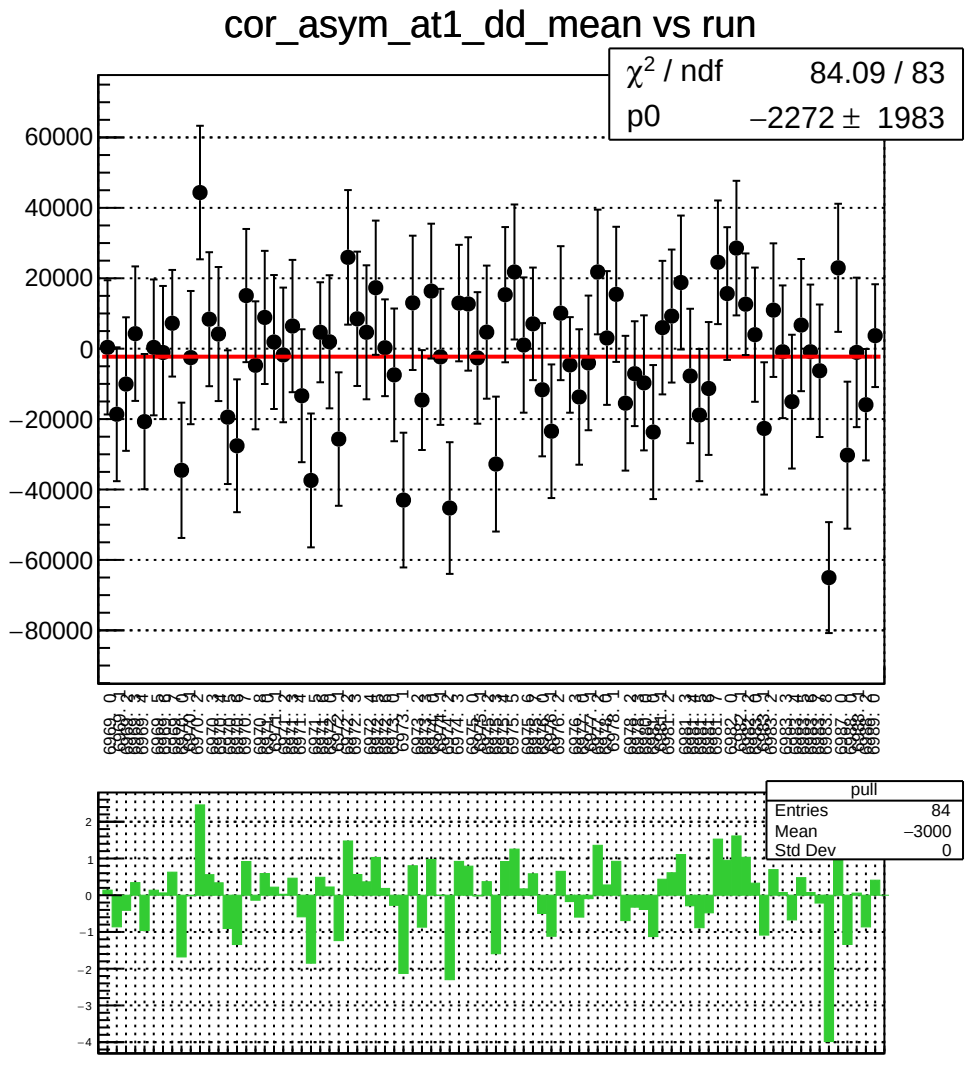

pull1D
Entries 84
Mean 7.497e−05
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

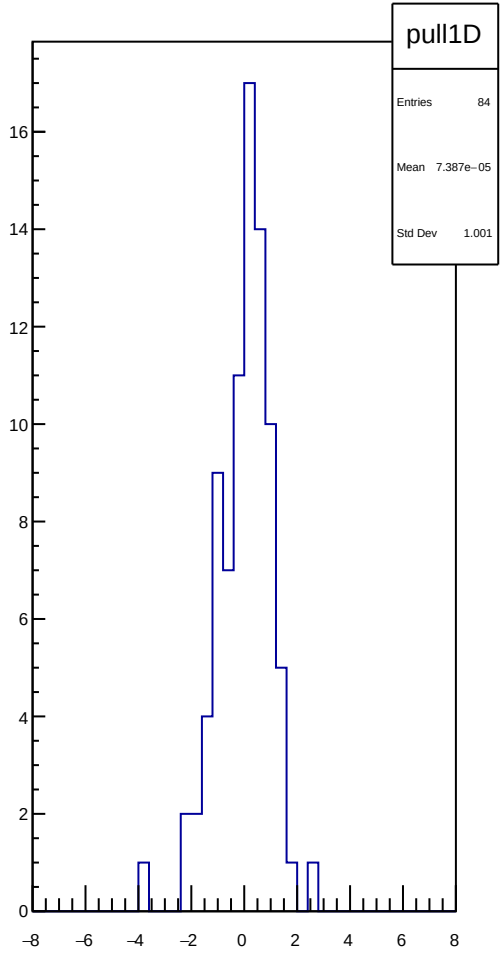

reg_asym_at1_dd_rms vs run
χ² / ndf 1019 / 83
p0 1814 ± 1.402
2050
2000
1950
1900
1850
1800
1750

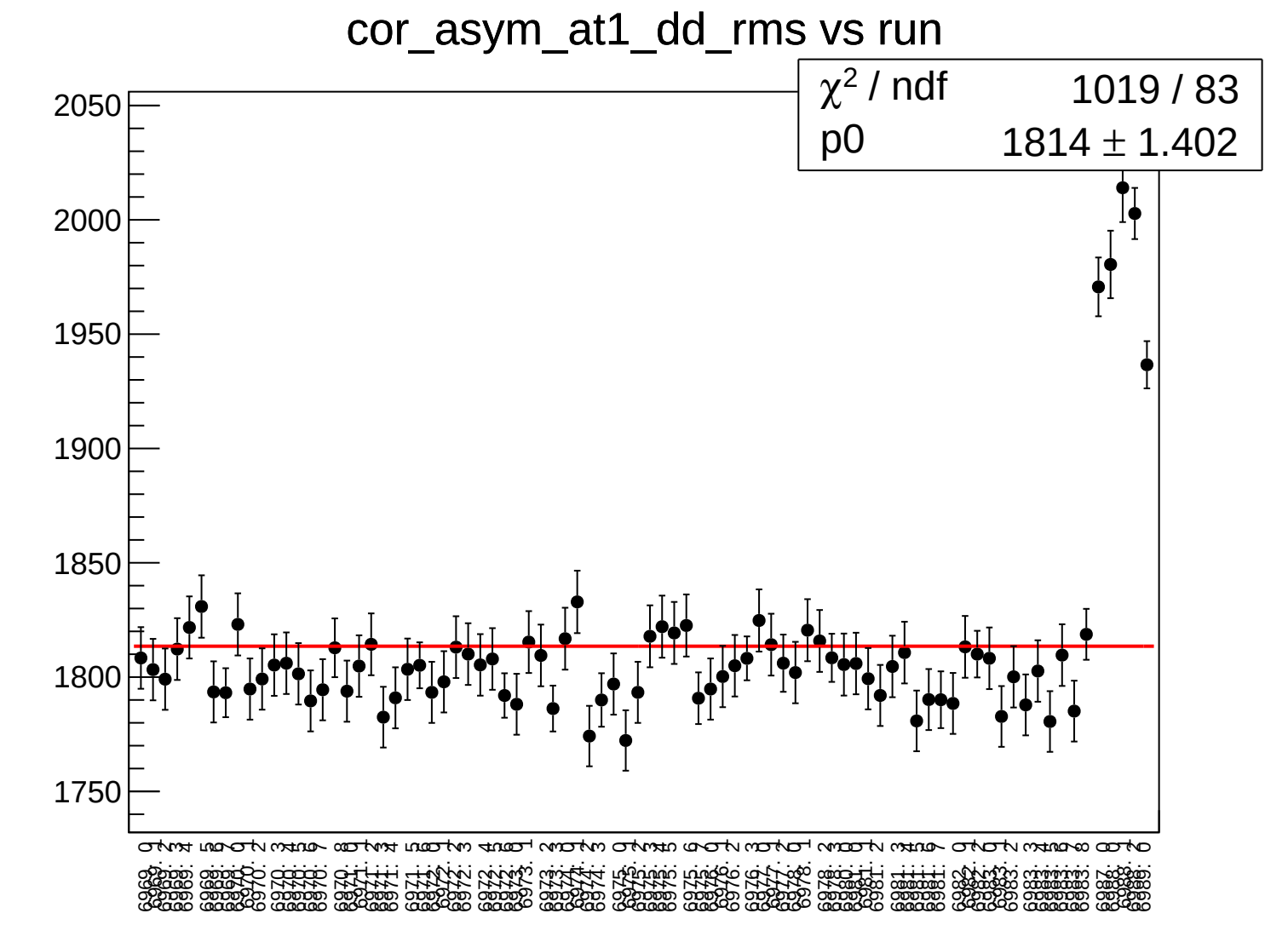

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 90.6 / 83
p0 −326.5 ± 550.1
pull
Entries 84
Mean −335.7
Std Dev 0

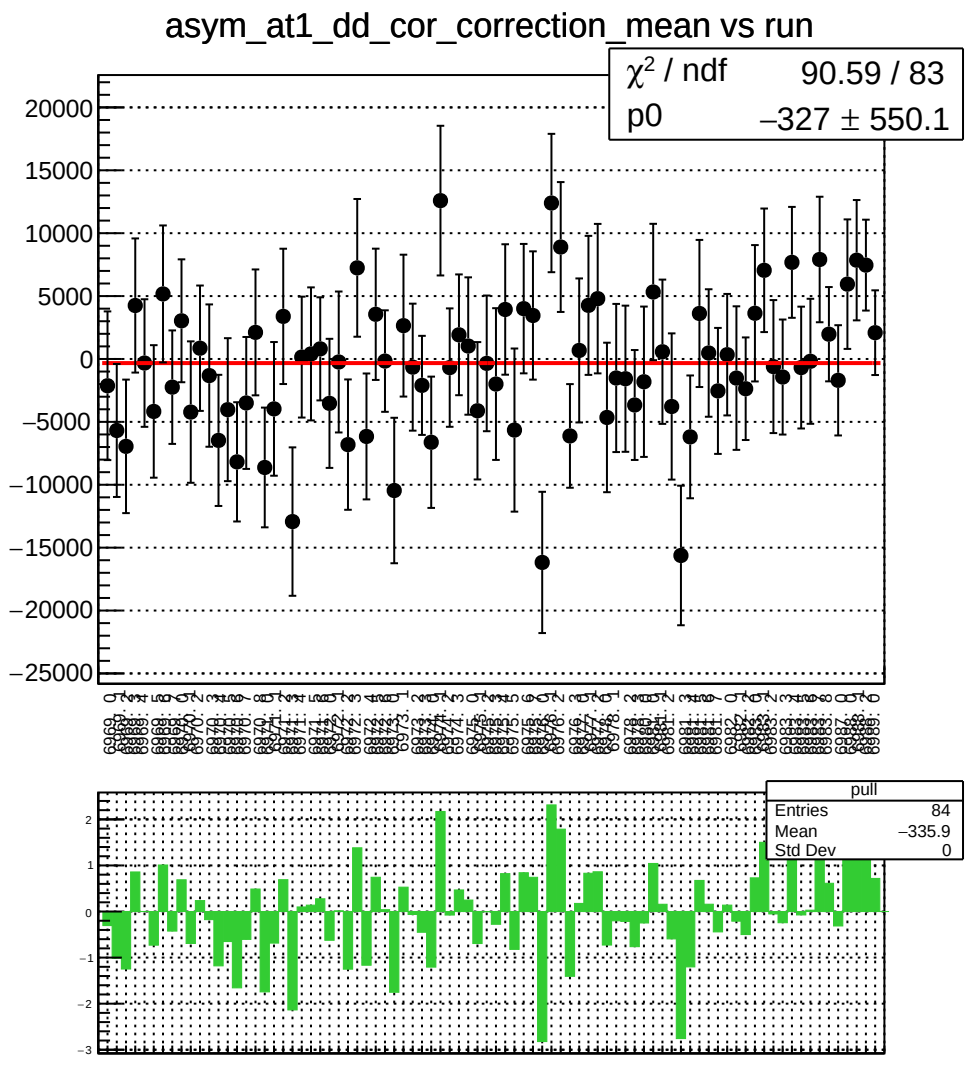

pull1D
Entries 84
Mean −0.0193
Std Dev 1.038

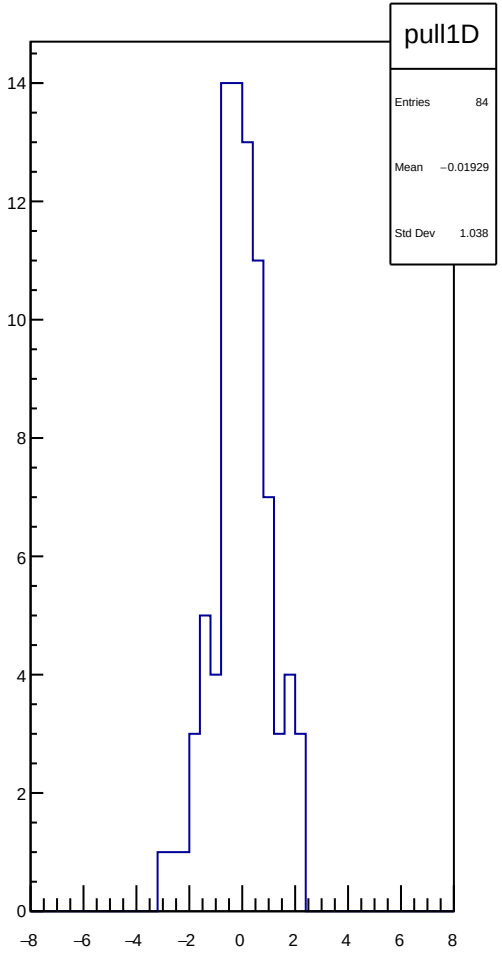

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.024e+04 / 83
p0 501.7 ± 0.389
600
550
500
450
400

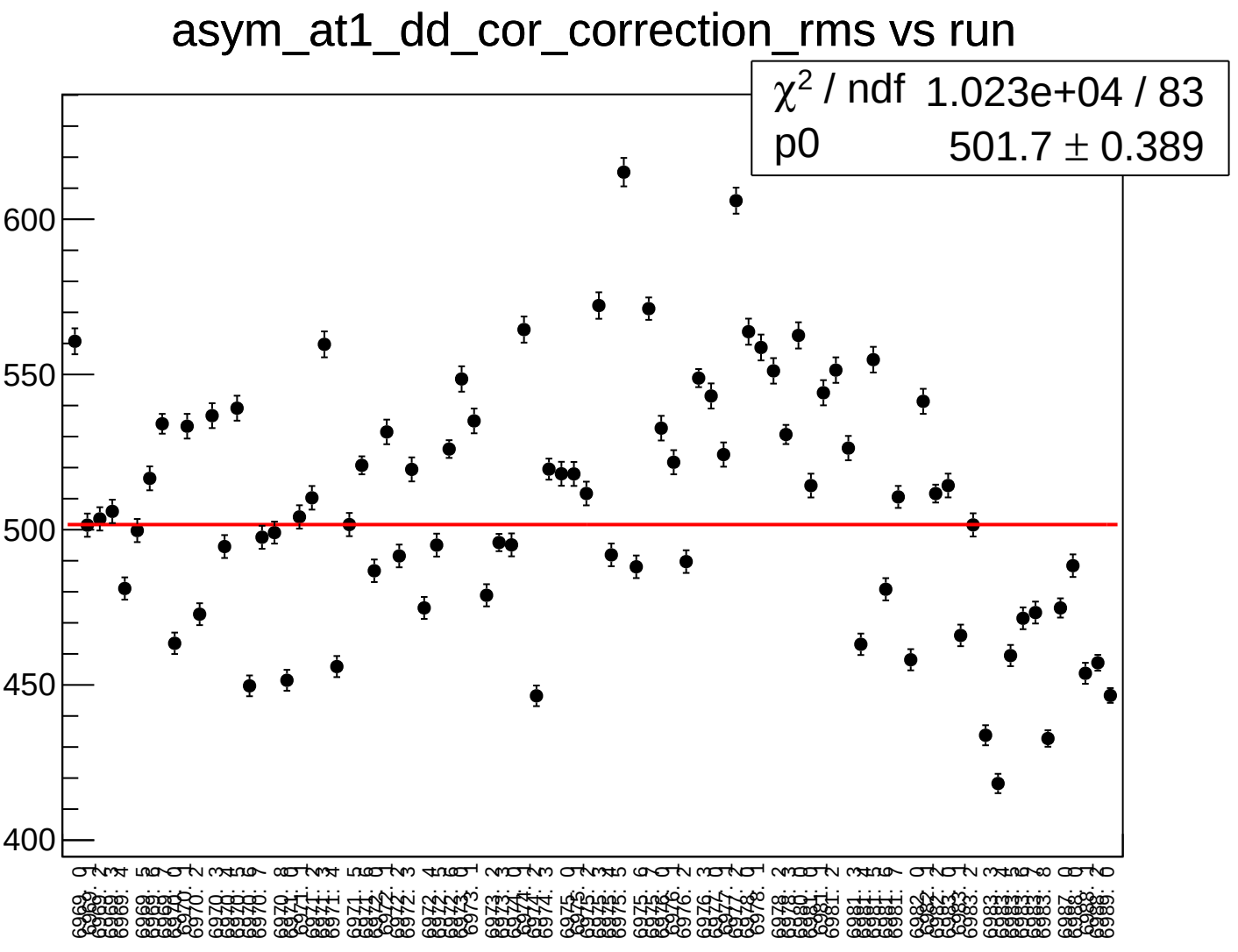

cor_asym_at1_dd_mean vs run
χ² / ndf 84.09 / 83
p0 −2272 ± 1983
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −3000
Std Dev 0
2
1
0
−1
−2
−3
−4

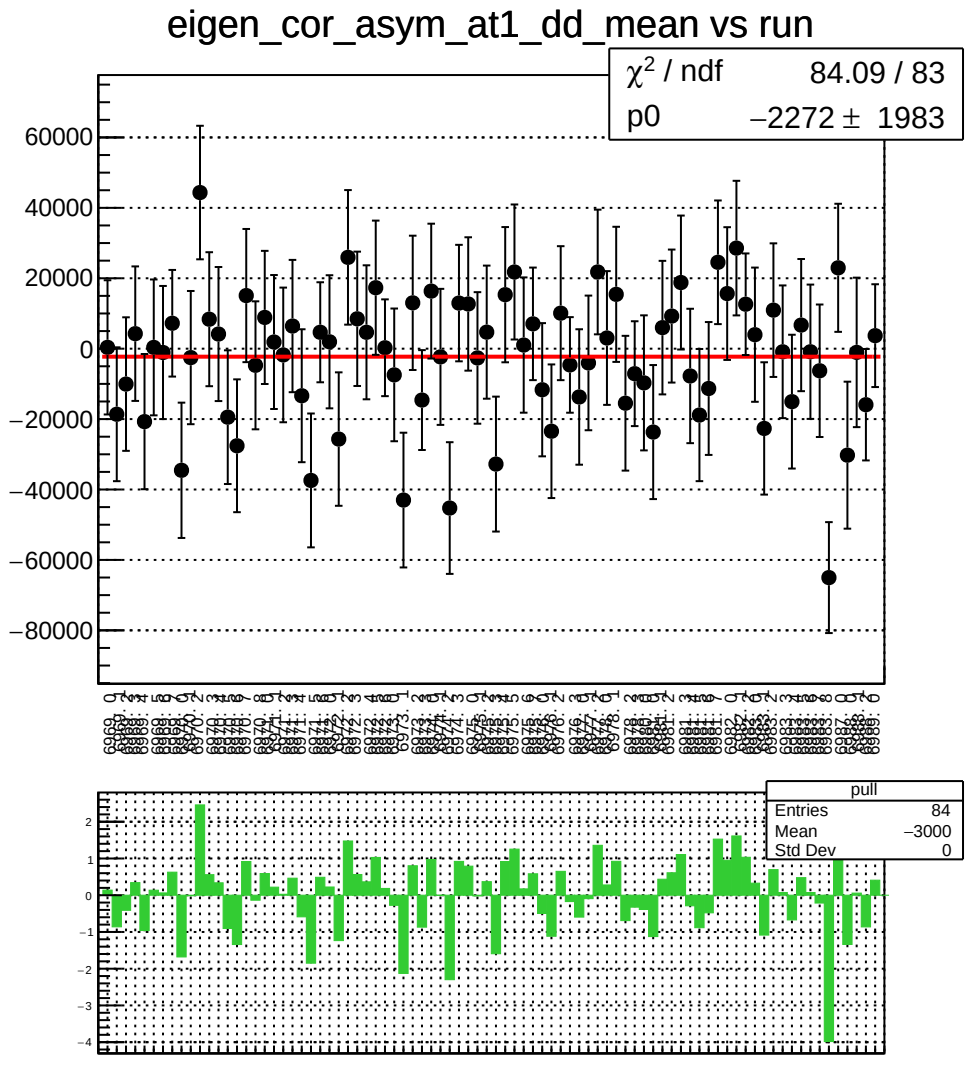

pull1D
Entries 84
Mean 7.387e−05
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

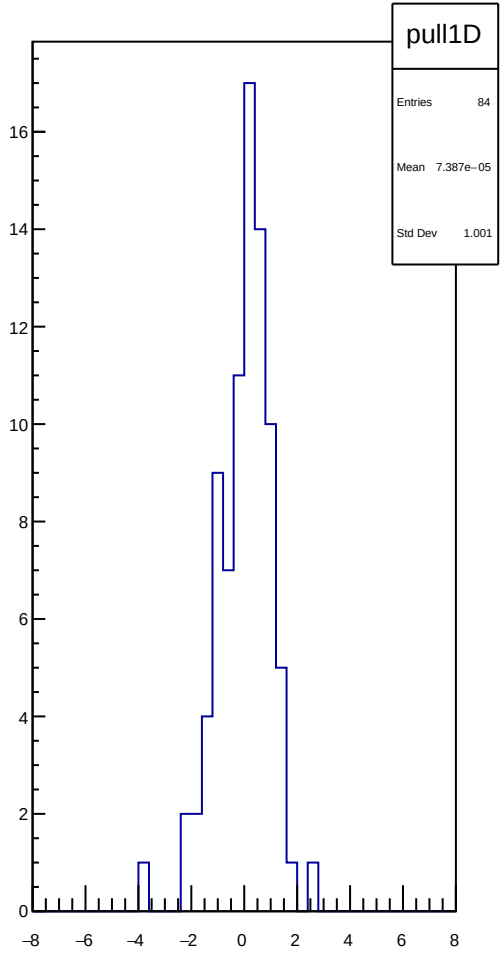

cor_asym_at1_dd_rms vs run
χ² / ndf 1019 / 83
p0 1814 ± 1.402
2050
2000
1950
1900
1850
1800
1750

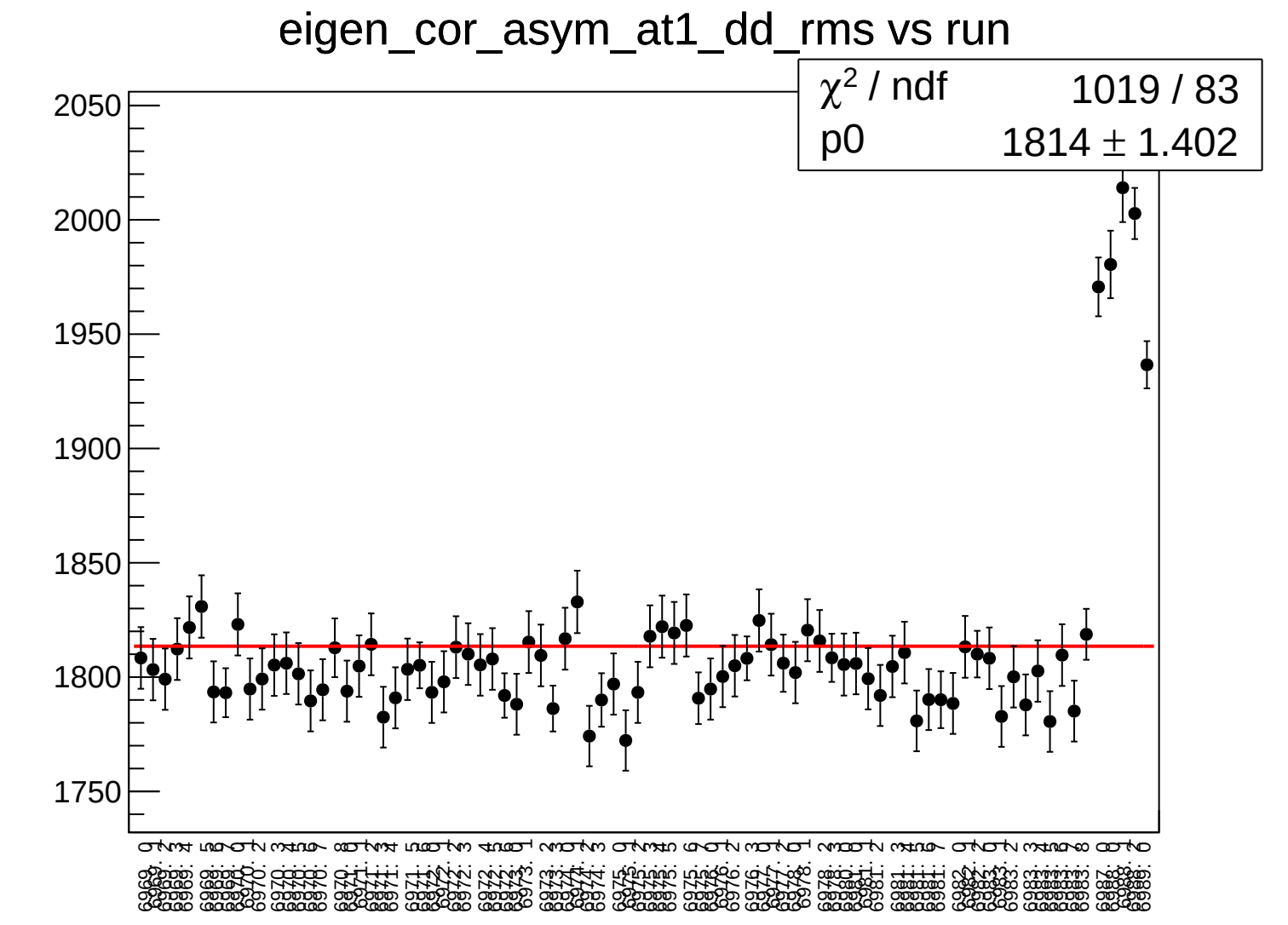

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 90.59 / 83
p0 −327 ± 550.1
pull
Entries 84
Mean −335.9
Std Dev 0

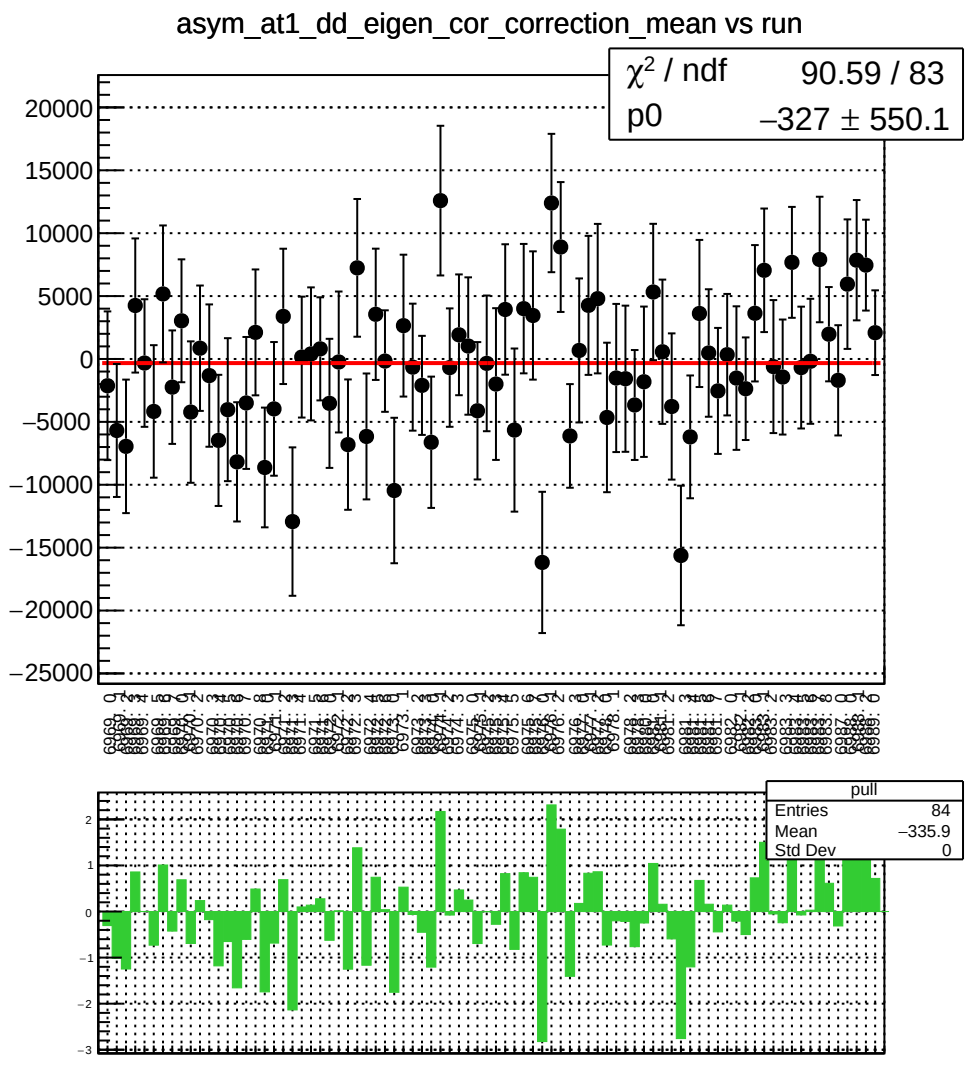

pull1D
Entries 84
Mean −0.01929
Std Dev 1.038

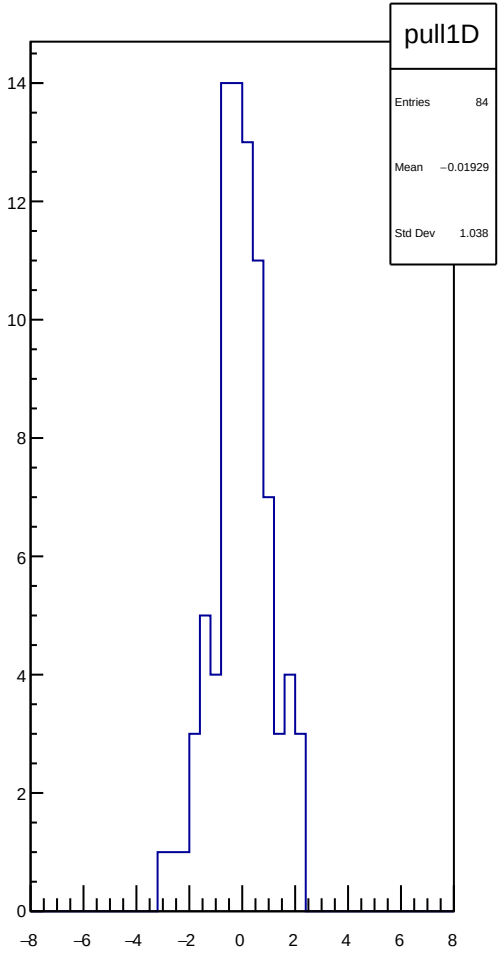

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.023e+04 / 83
p0 501.7 ± 0.389
600
550
500
450
400

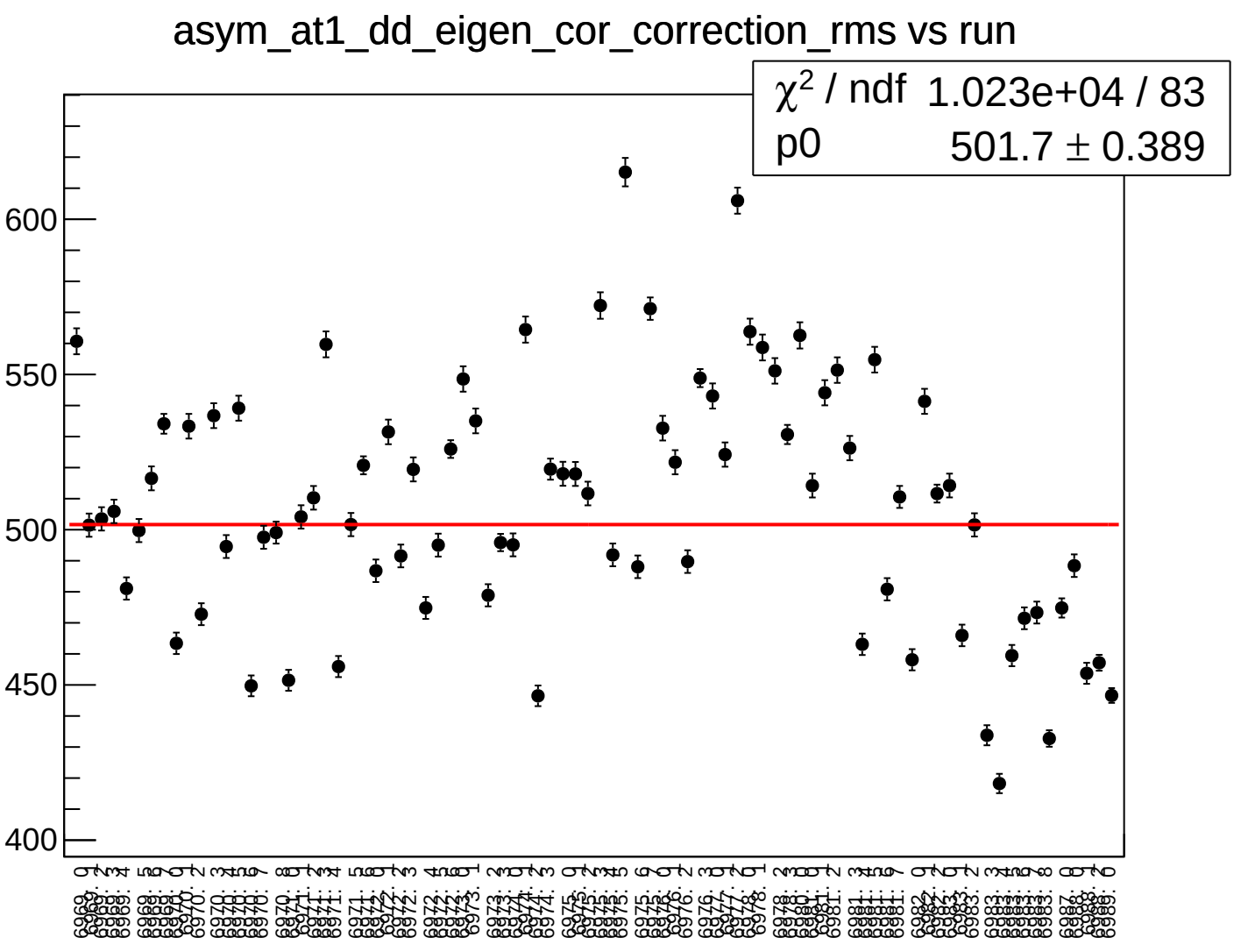

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 84.09 / 83
p0 −2272 ± 1983
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −3000
Std Dev 0
2
1
0
−1
−2
−3
−4

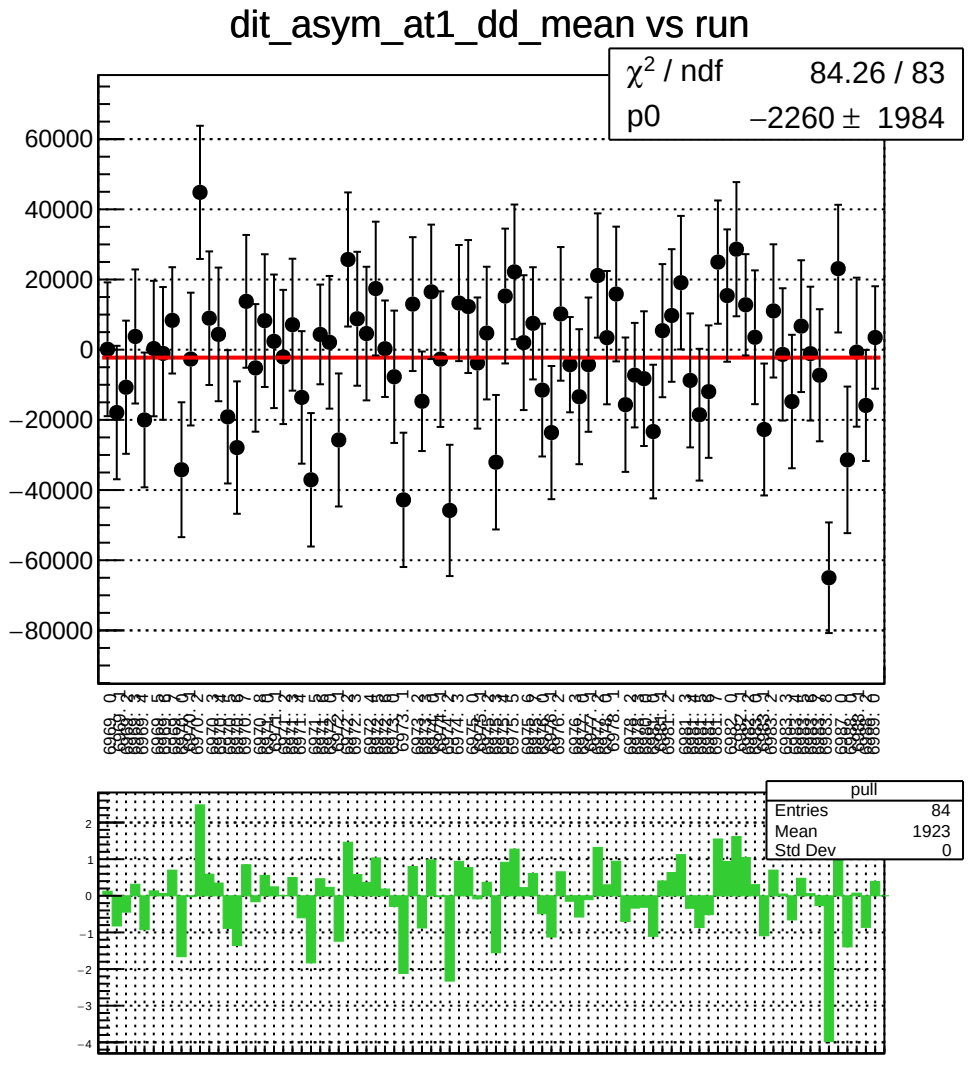

pull1D
Entries 84
Mean 7.387e−05
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

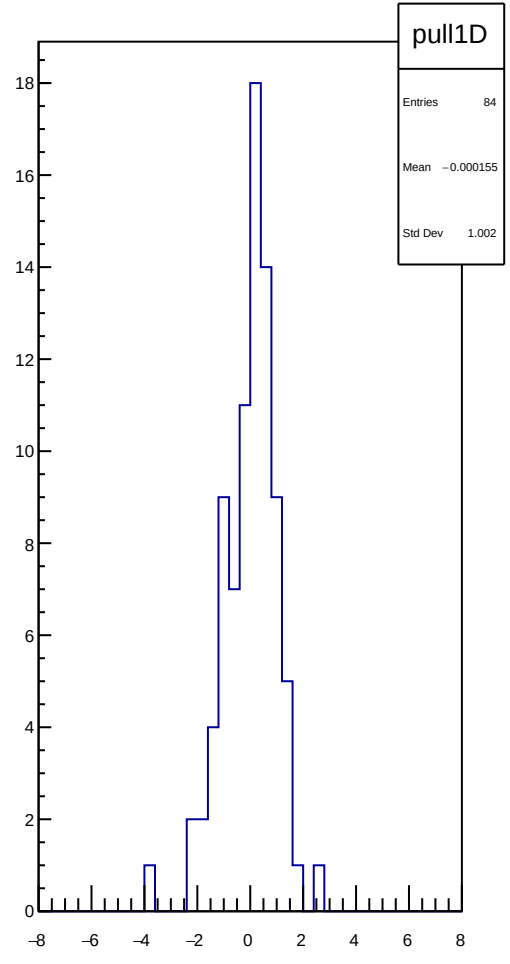

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 1019 / 83
p0 1814 ± 1.402
2050
2000
1950
1900
1850
1800
1750

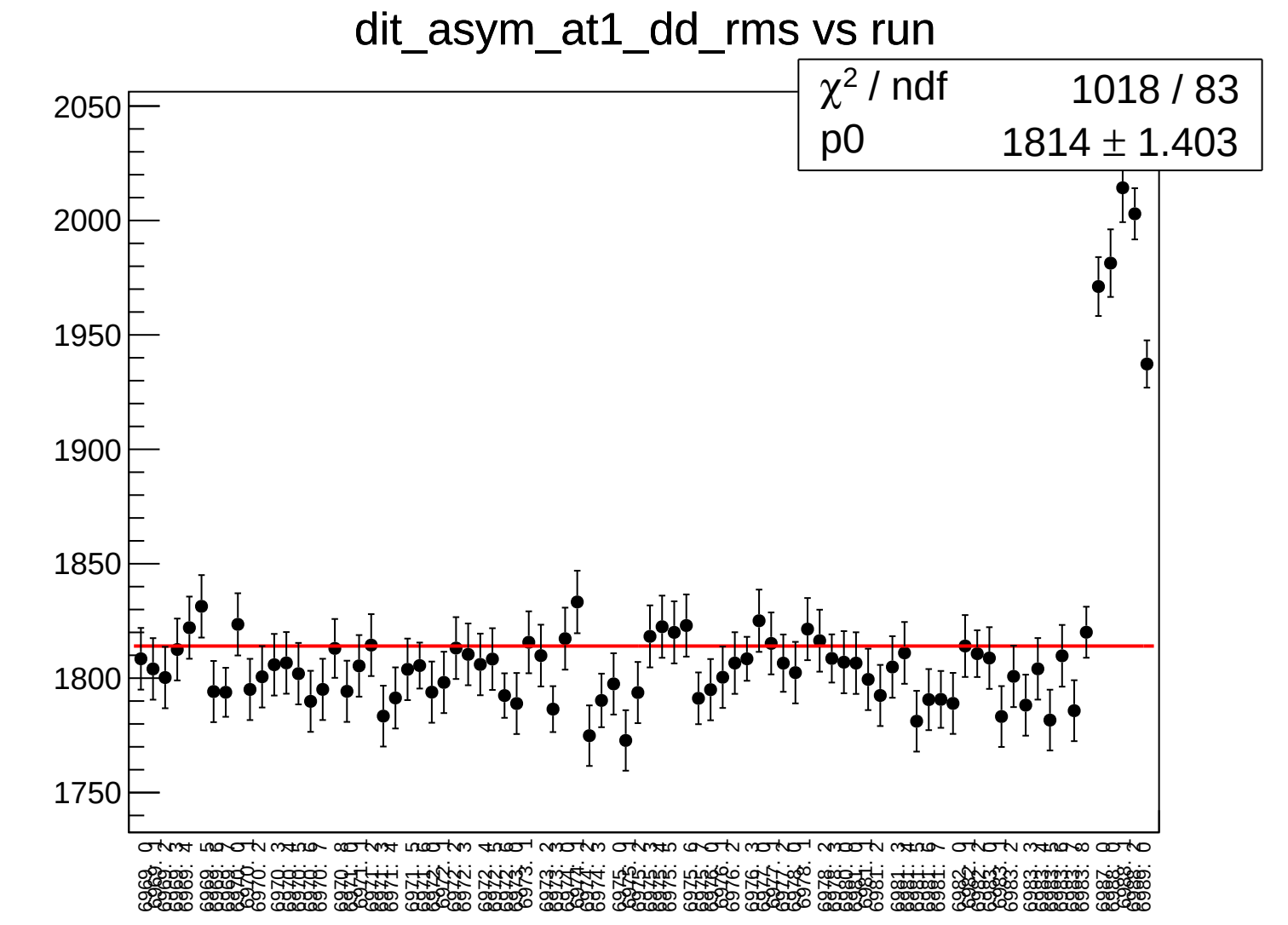

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.59 / 83
p0 −327 ± 550.1
pull
Entries 84
Mean −335.9
Std Dev 0

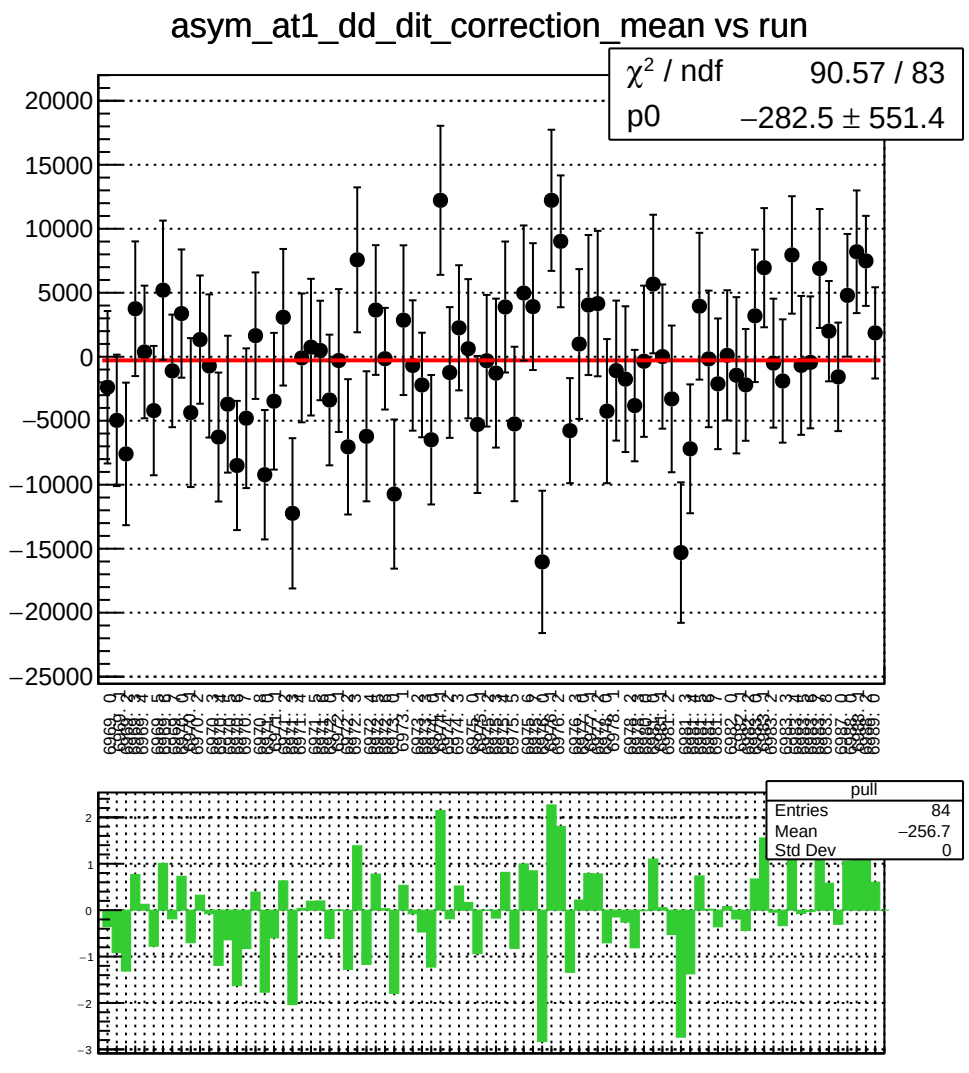

pull1D
Entries 84
Mean −0.01929
Std Dev 1.038

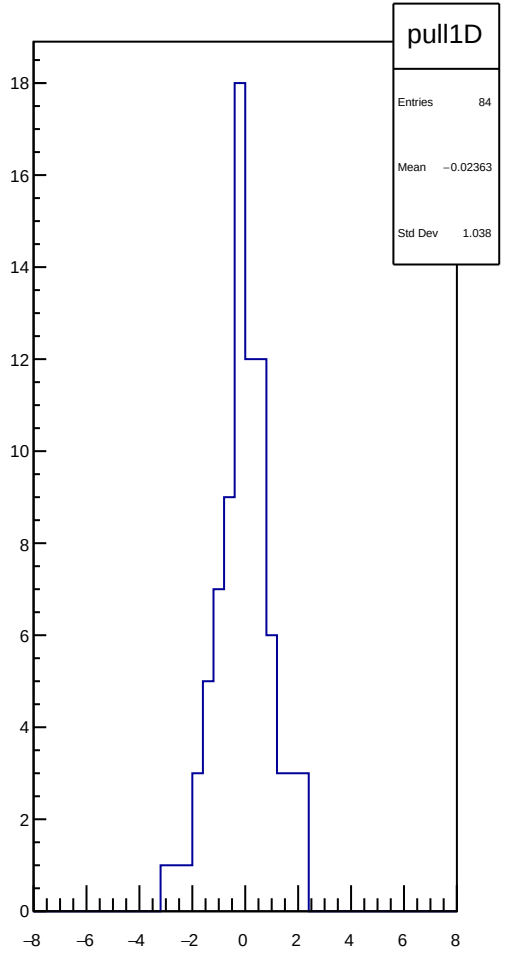

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.023e+04 / 83
p0 501.7 ± 0.389
600
550
500
450
400

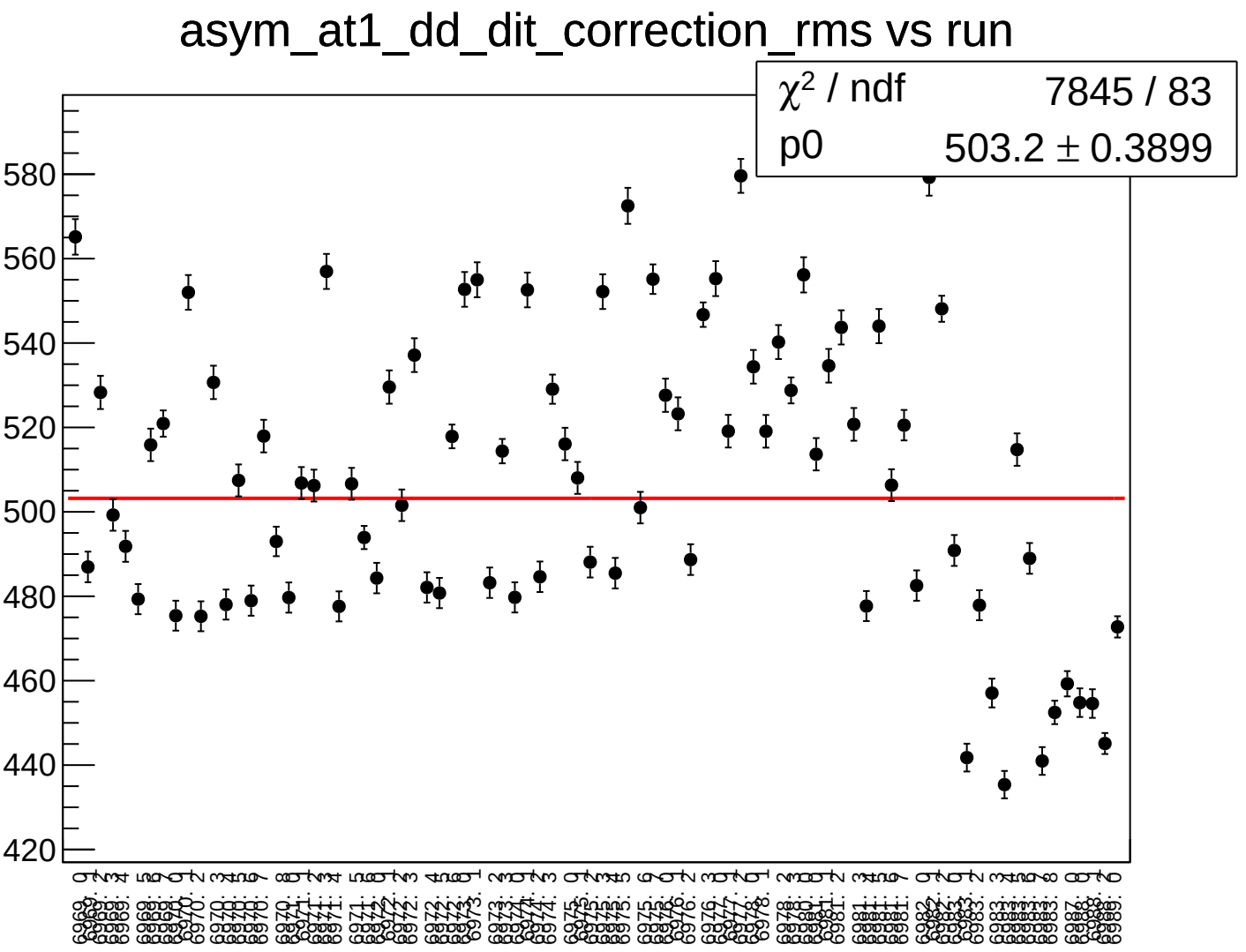

dit_asym_at1_dd_mean vs run
χ² / ndf 84.26 / 83
p0 −2260 ± 1984
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 1923
Std Dev 0
2
1
0
−1
−2
−3
−4

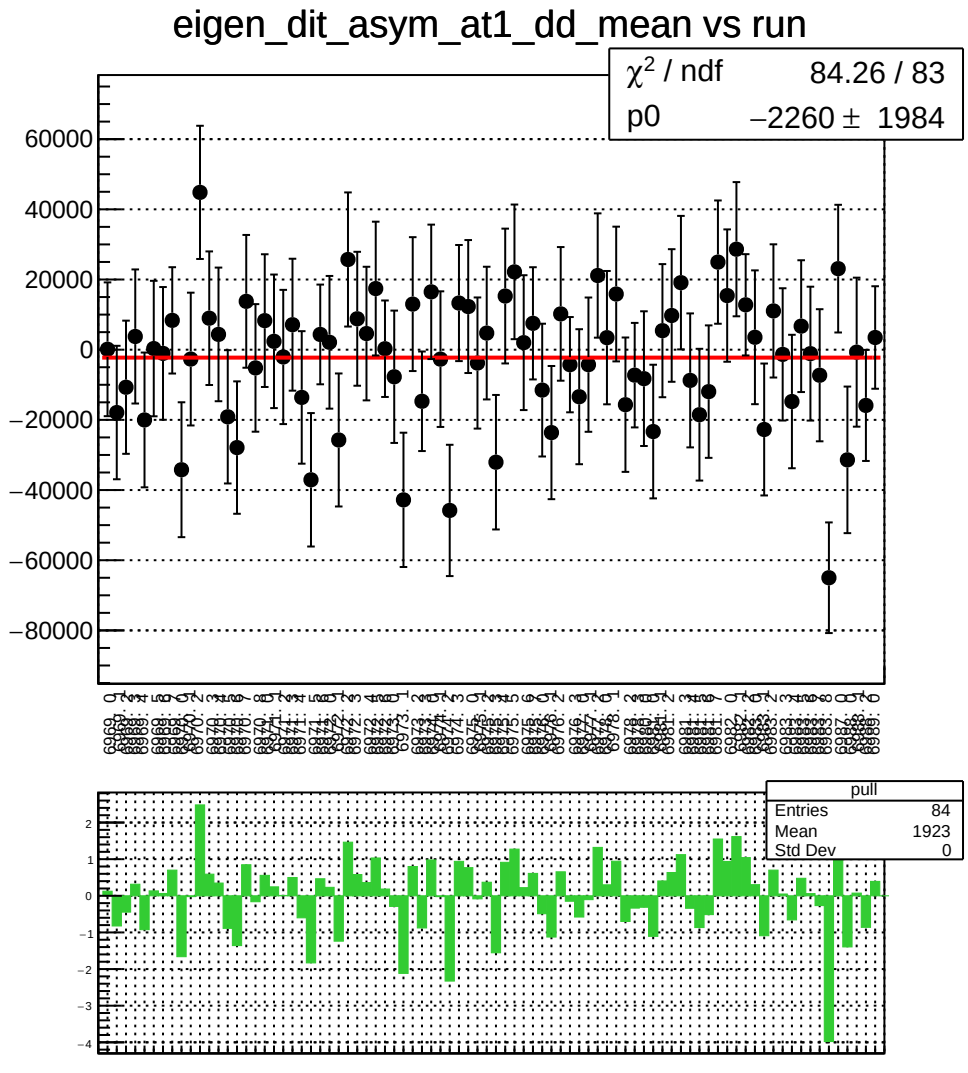

pull1D
Entries 84
Mean −0.000155
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

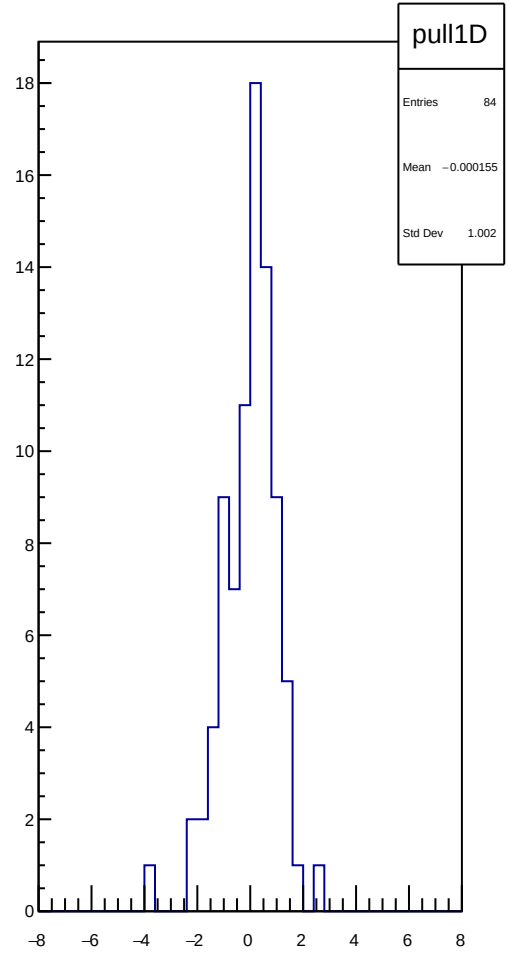

dit_asym_at1_dd_rms vs run
χ² / ndf 1018 / 83
p0 1814 ± 1.403
2050
2000
1950
1900
1850
1800
1750

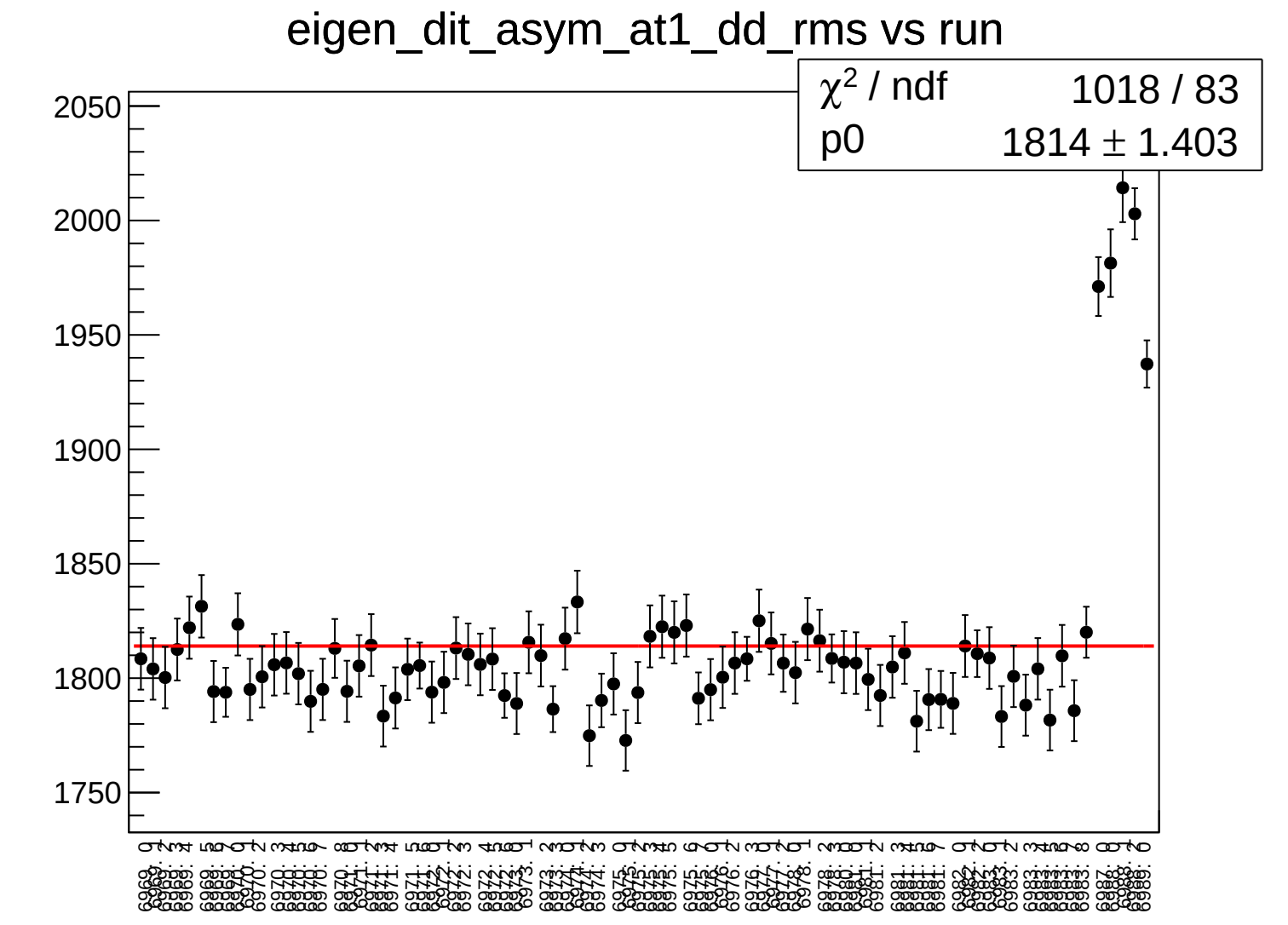

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 90.57 / 83
p0 −282.5 ± 551.4
pull
Entries 84
Mean −256.7
Std Dev 0

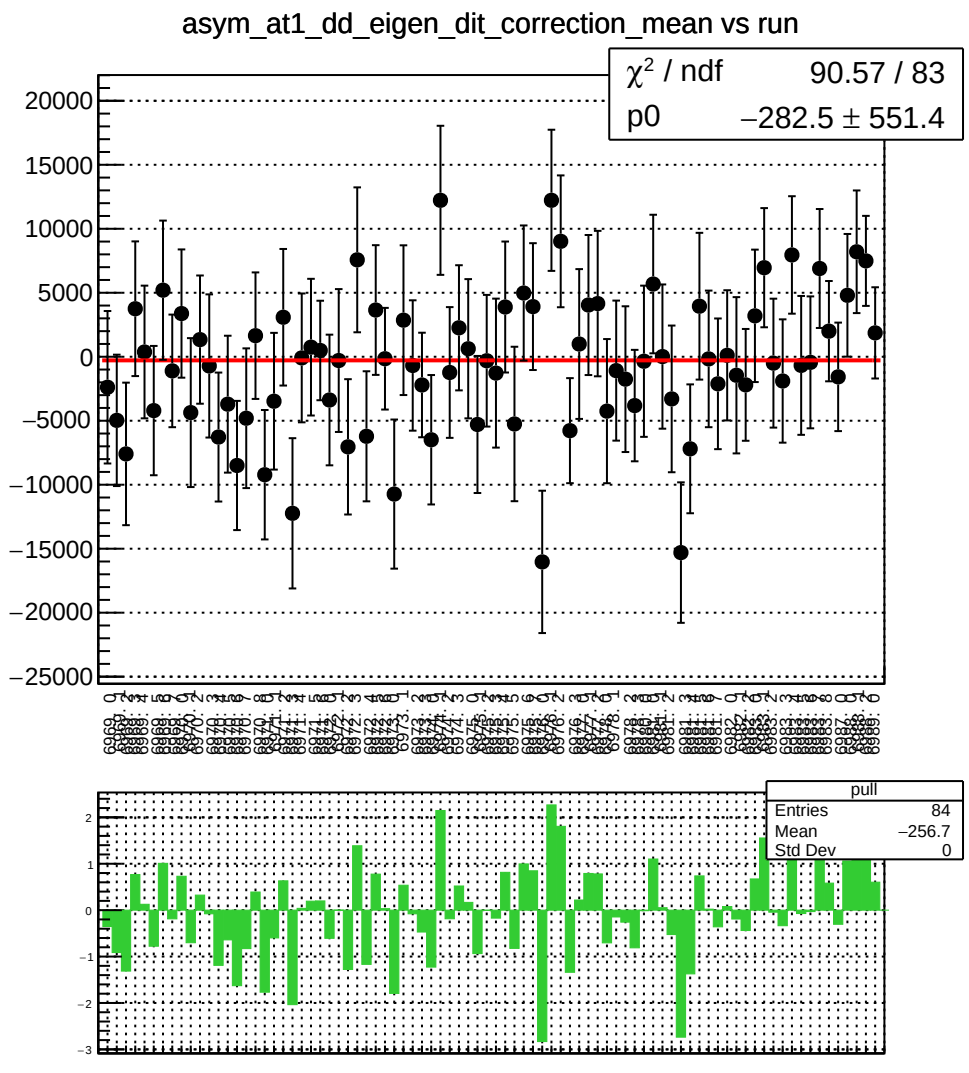

pull1D
Entries 84
Mean −0.02363
Std Dev 1.038

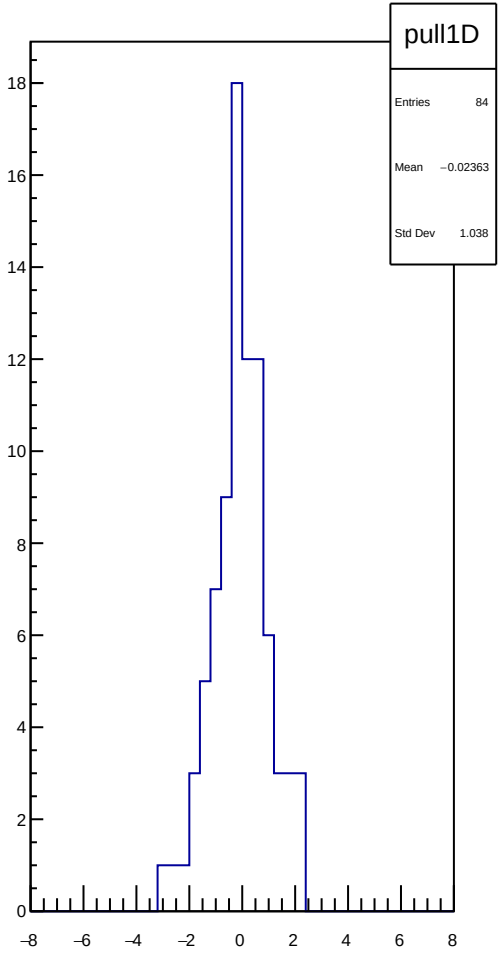

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 7845 / 83
p0 503.2 ± 0.3899
580
560
540
520
500
480
460
440
420

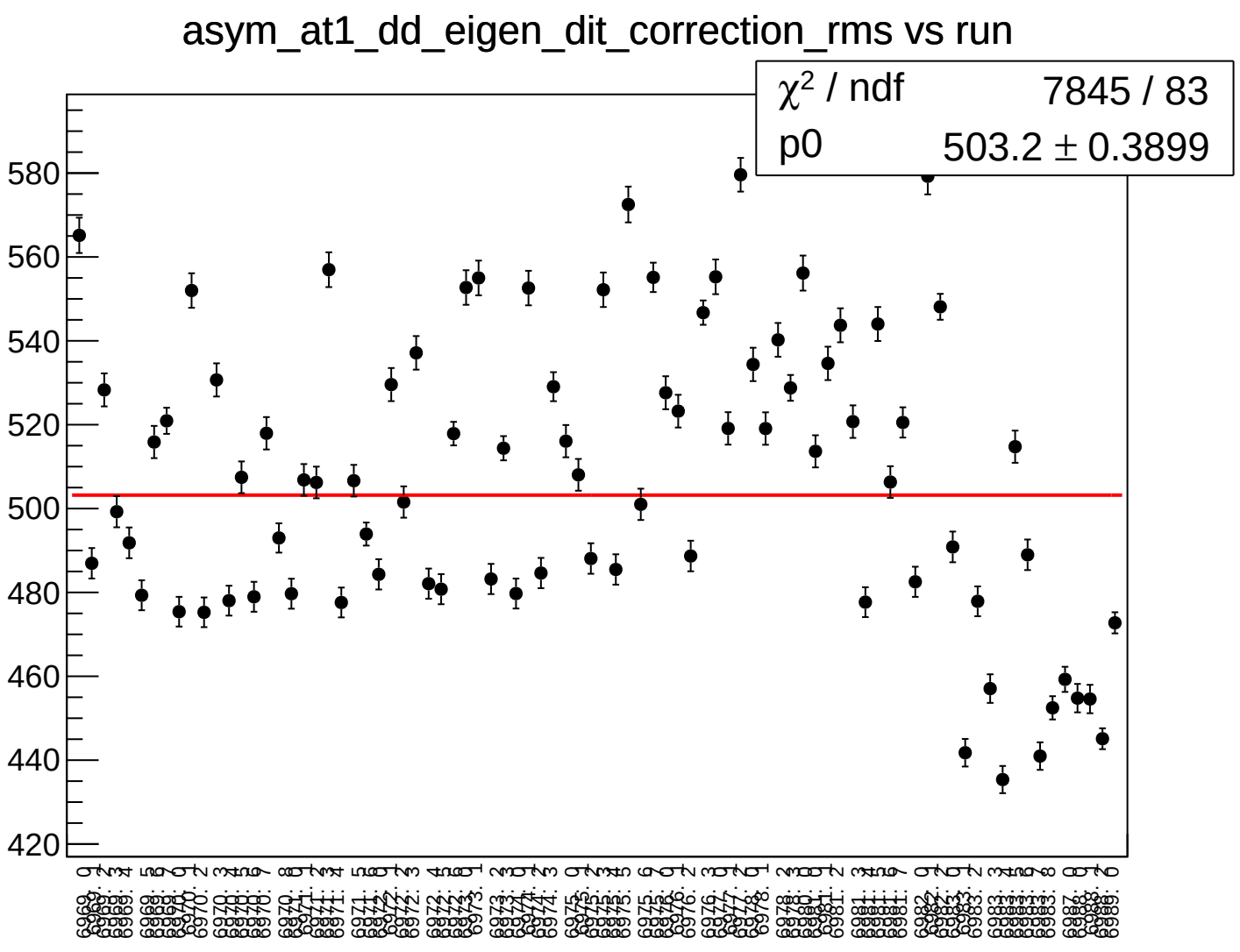

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 84.26 / 83
p0 −2260 ± 1984
pull
Entries 84
Mean 1923
Std Dev 0

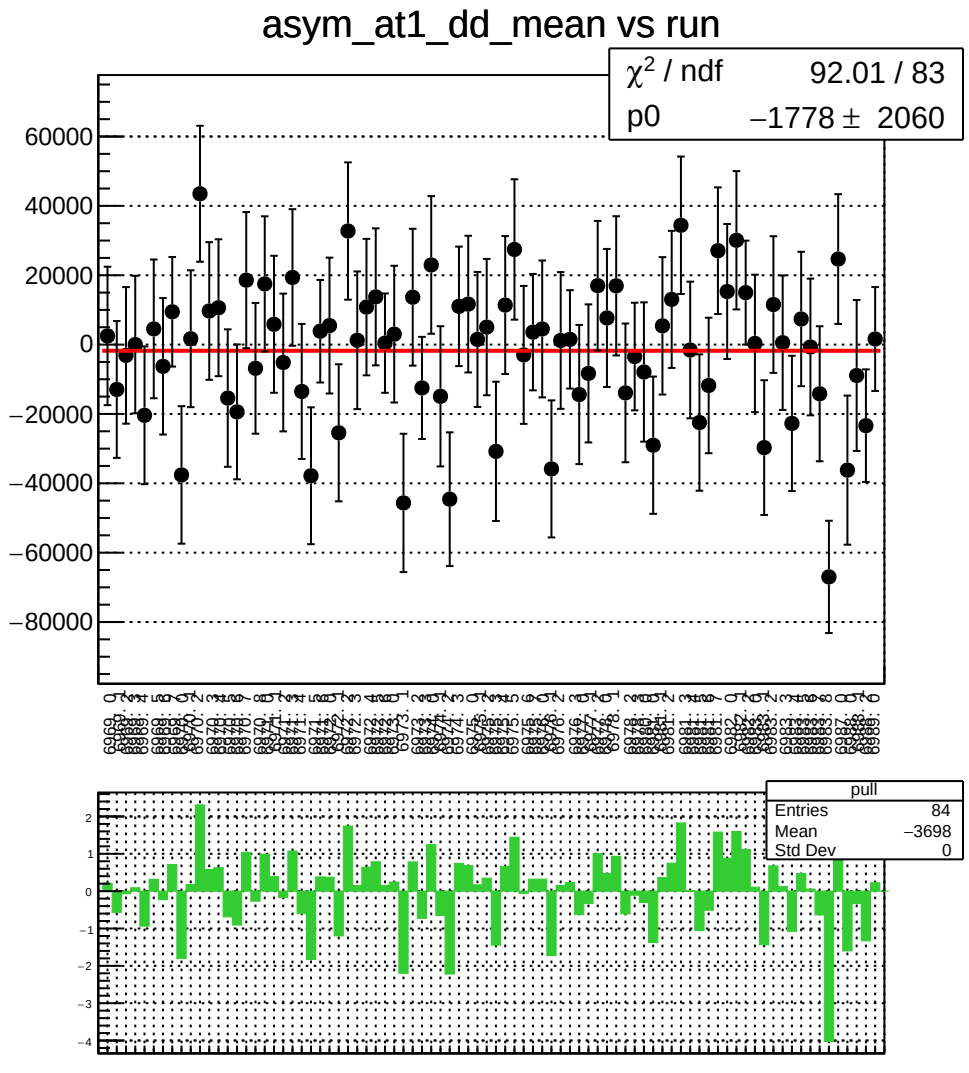

pull1D
Entries 84
Mean −0.000155
Std Dev 1.002

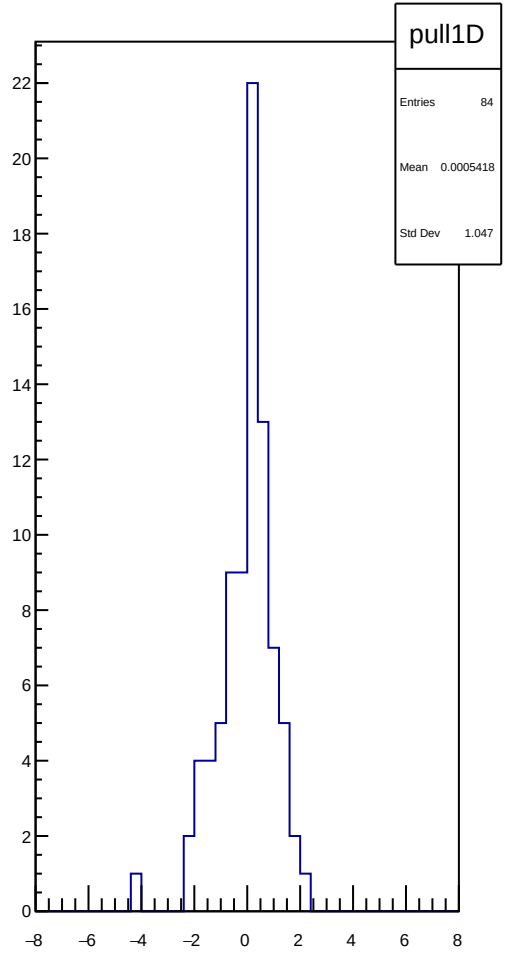

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 1018 / 83
p0 1814 ± 1.403
2050
2000
1950
1900
1850
1800
1750

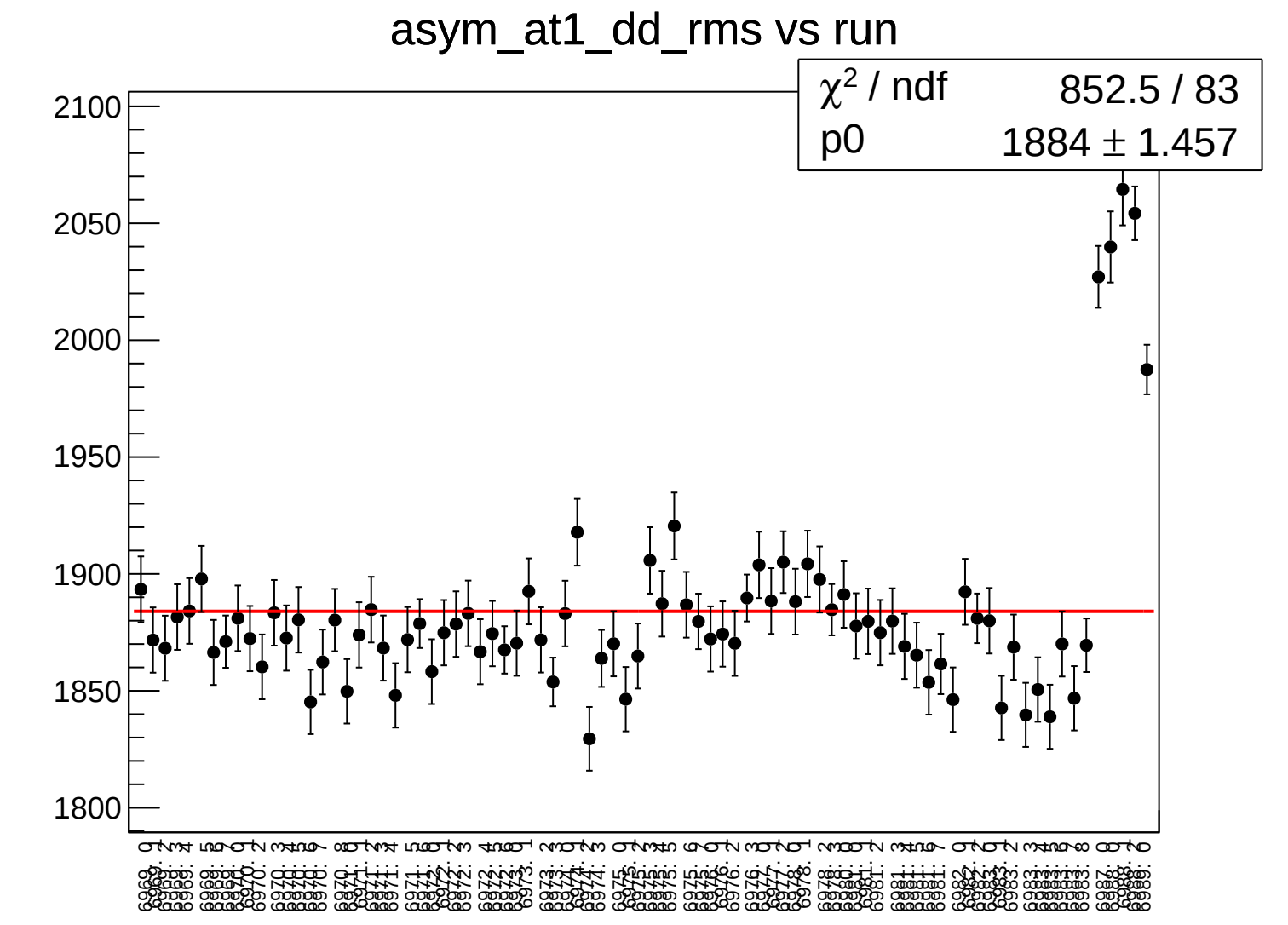

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.57 / 83
p0 −282.5 ± 551.4
pull
Entries 84
Mean −256.7
Std Dev 0

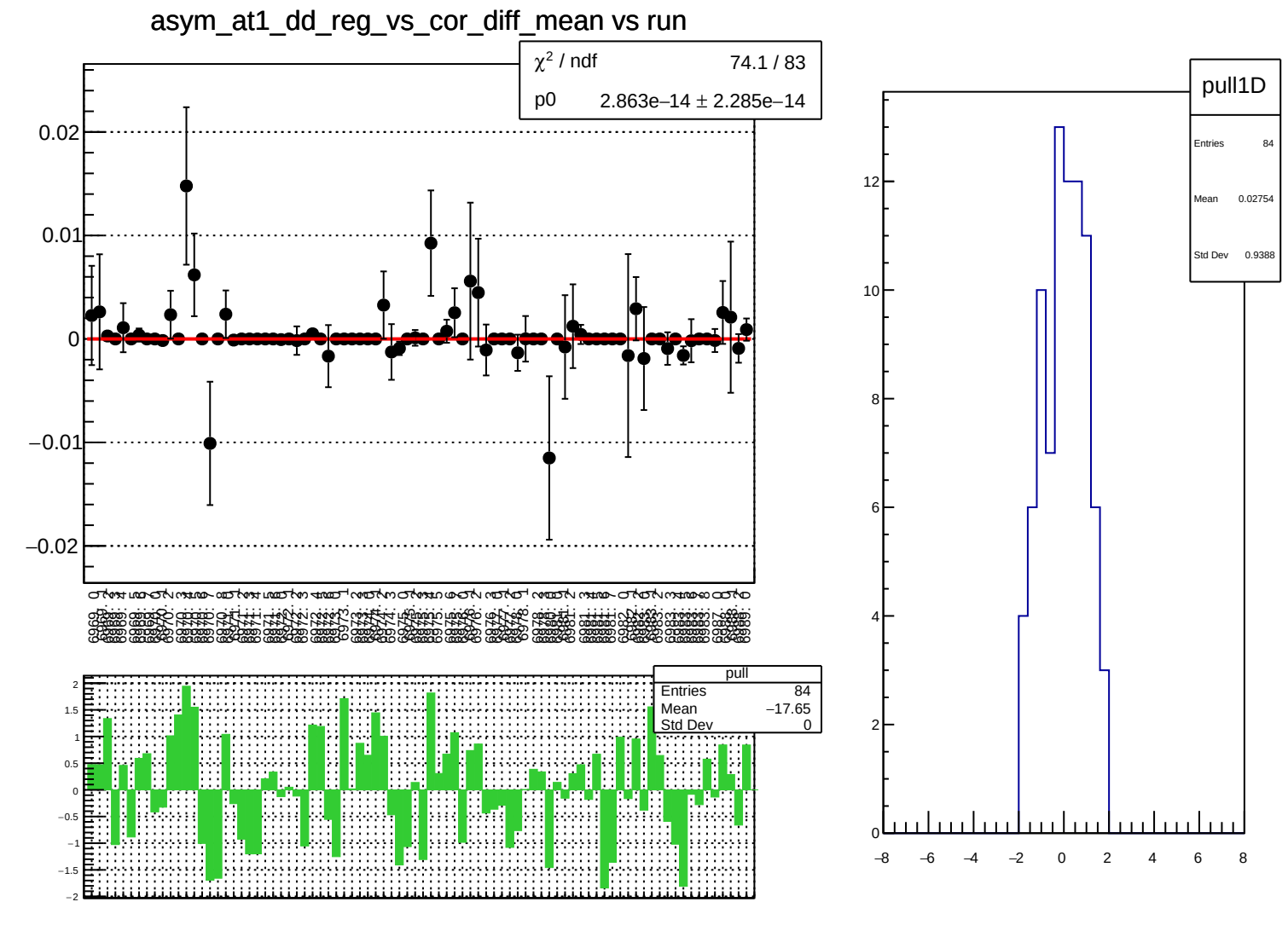

pull1D
Entries 84
Mean −0.02363
Std Dev 1.038

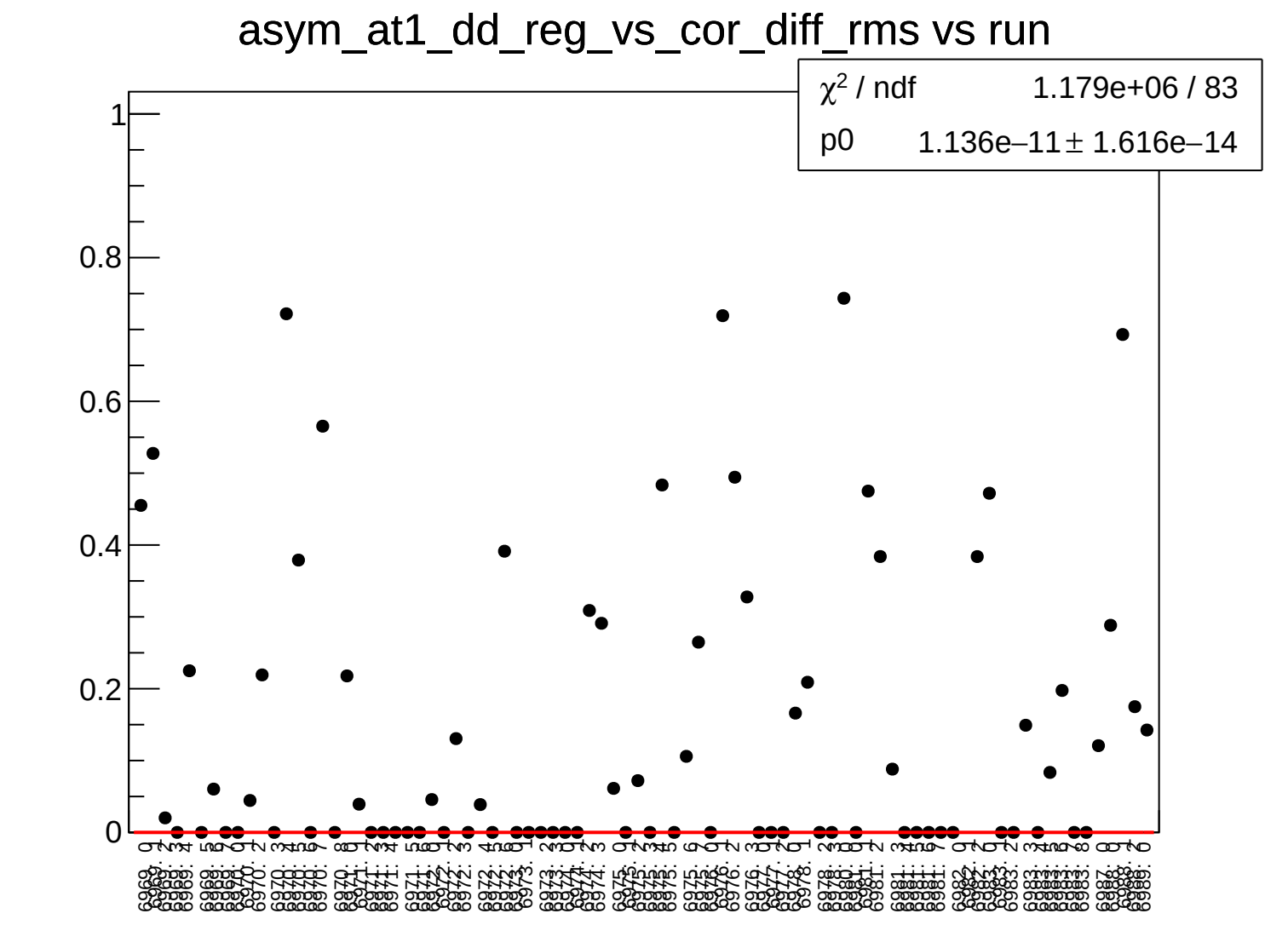

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 7845 / 83
p0 503.2 ± 0.3899
580
560
540
520
500
480
460
440
420

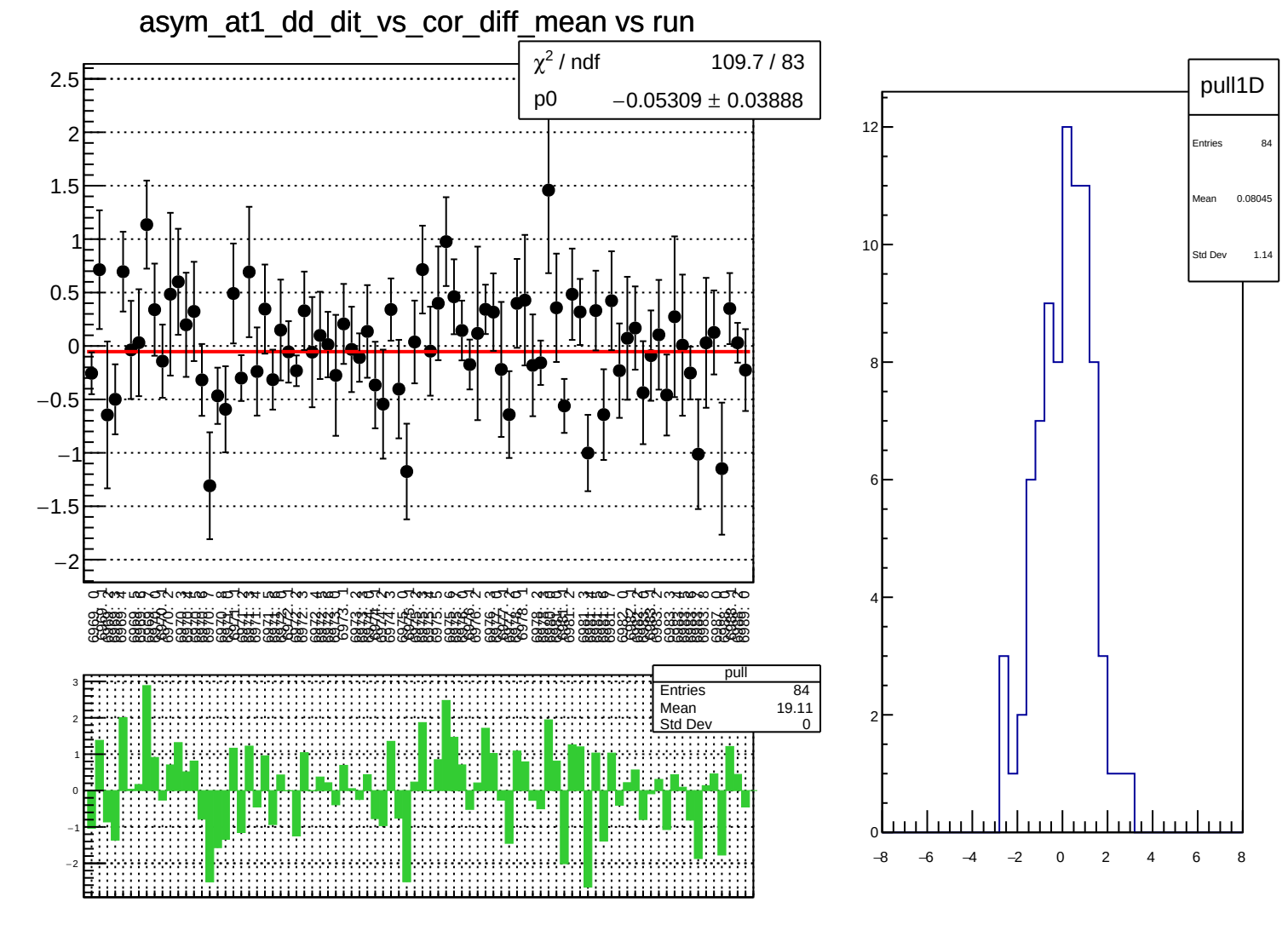

asym_at1_dd_mean vs run
χ² / ndf 92.01 / 83
p0 −1778 ± 2060
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −3698
Std Dev 0
2
1
0
−1
−2
−3
−4

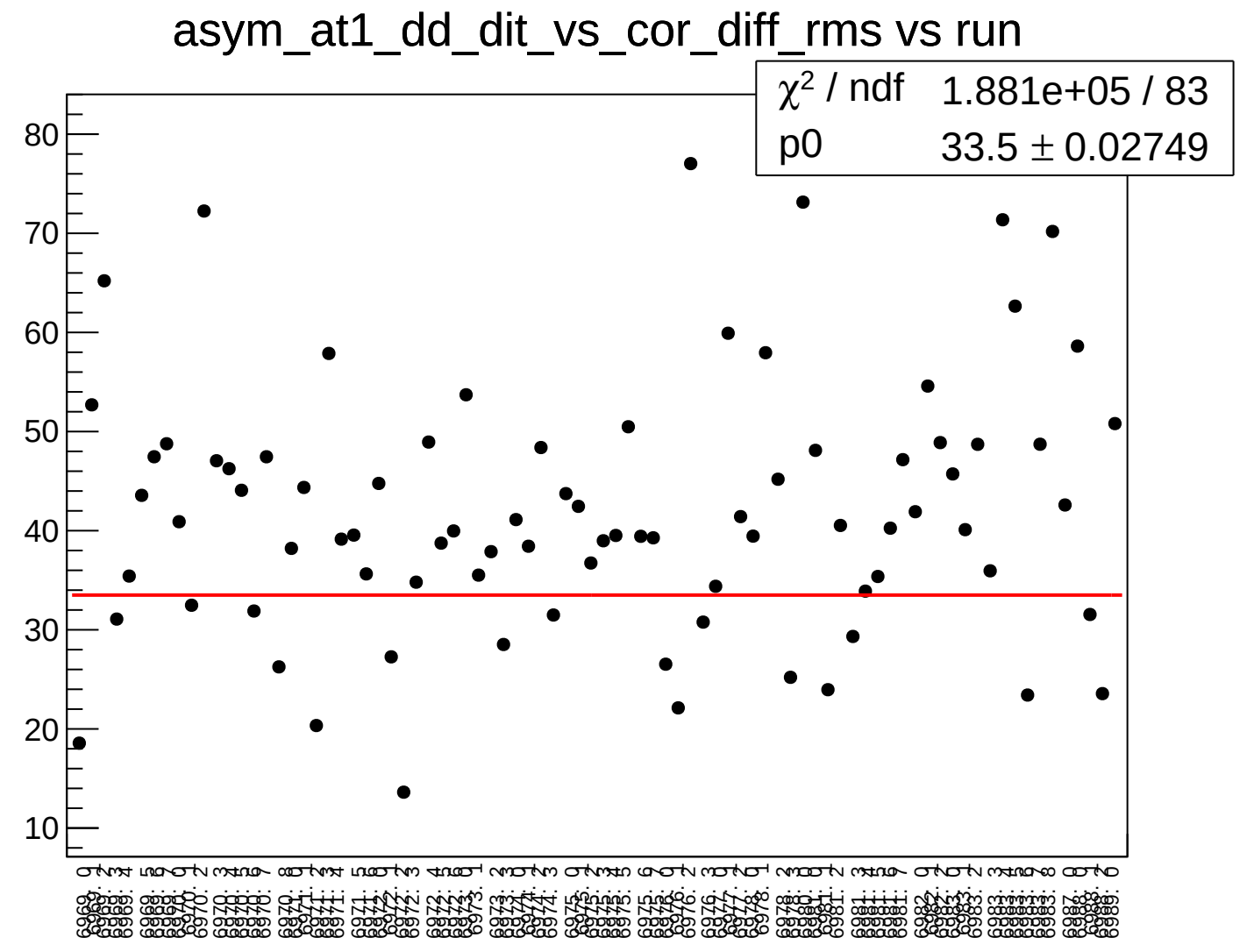

pull1D
Entries 84
Mean 0.0005418
Std Dev 1.047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_rms vs run
χ² / ndf 852.5 / 83
p0 1884 ± 1.457
2100
2050
2000
1950
1900
1850
1800

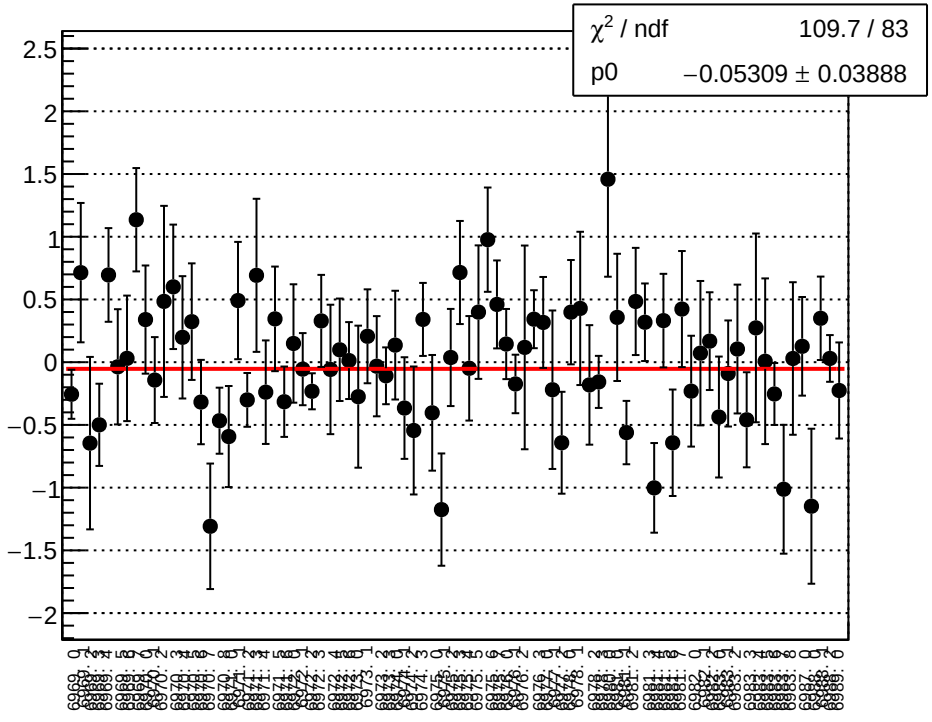

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.1 / 83
p0 2.863e−14 ± 2.285e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean −17.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.02754
Std Dev 0.9388
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

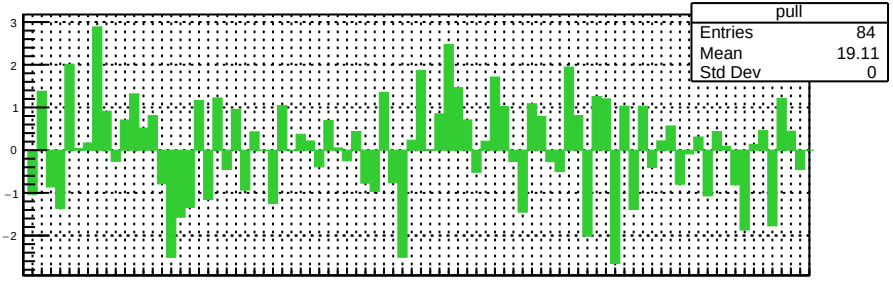

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.179e+06 / 83
p0 1.136e−11 ± 1.616e−14
1
0.8
0.6
0.4
0.2
0

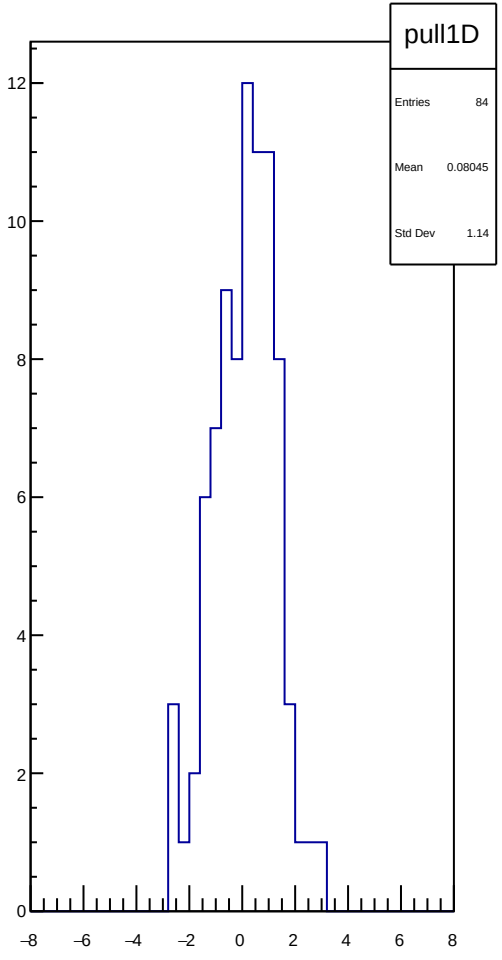

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 83
p0 −0.05309 ± 0.03888
pull
Entries 84
Mean 19.11
Std Dev 0
pull1D
Entries 84
Mean 0.08045
Std Dev 1.14

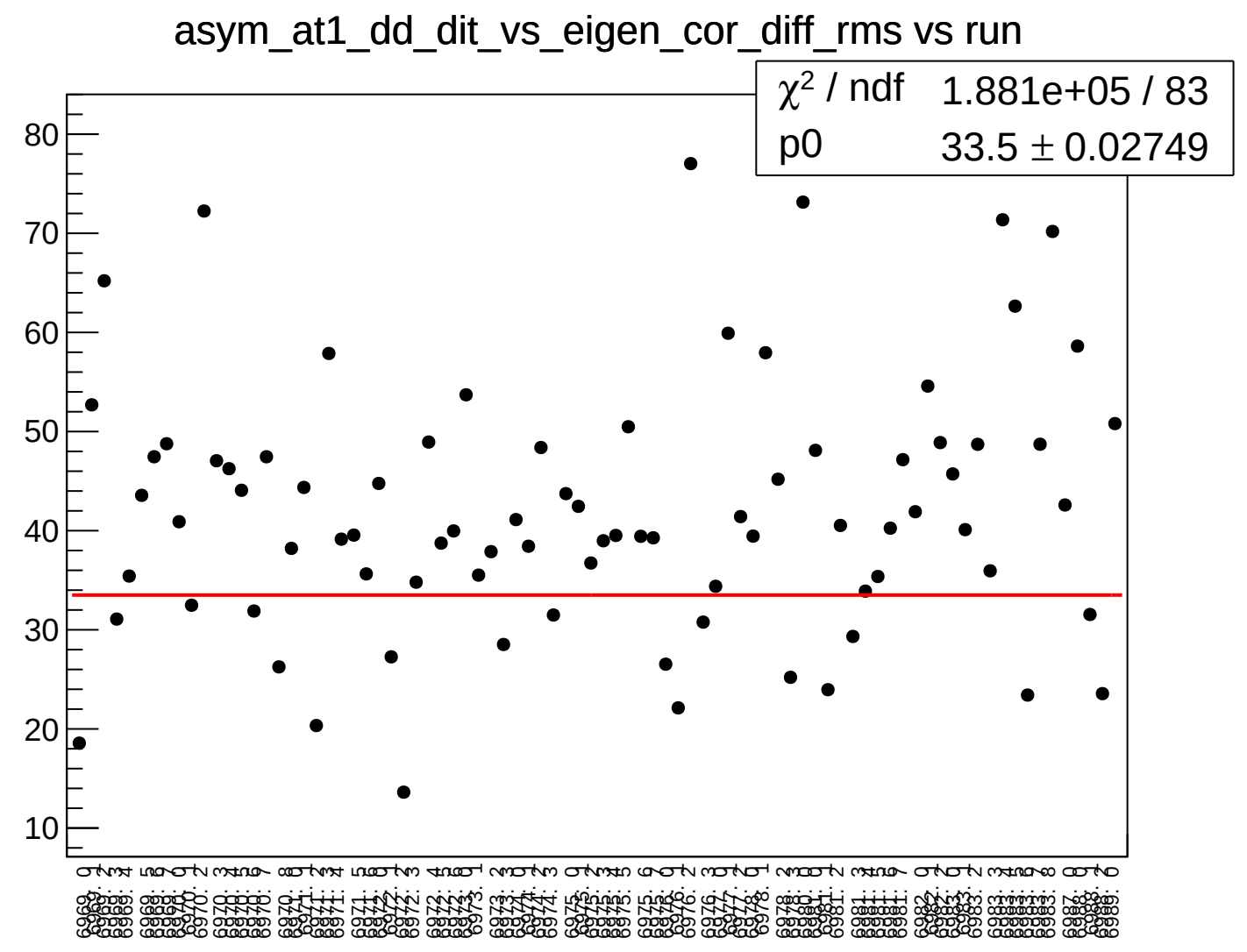

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.881e+05 / 83
p0 33.5 ± 0.02749
80
70
60
50
40
30
20
10

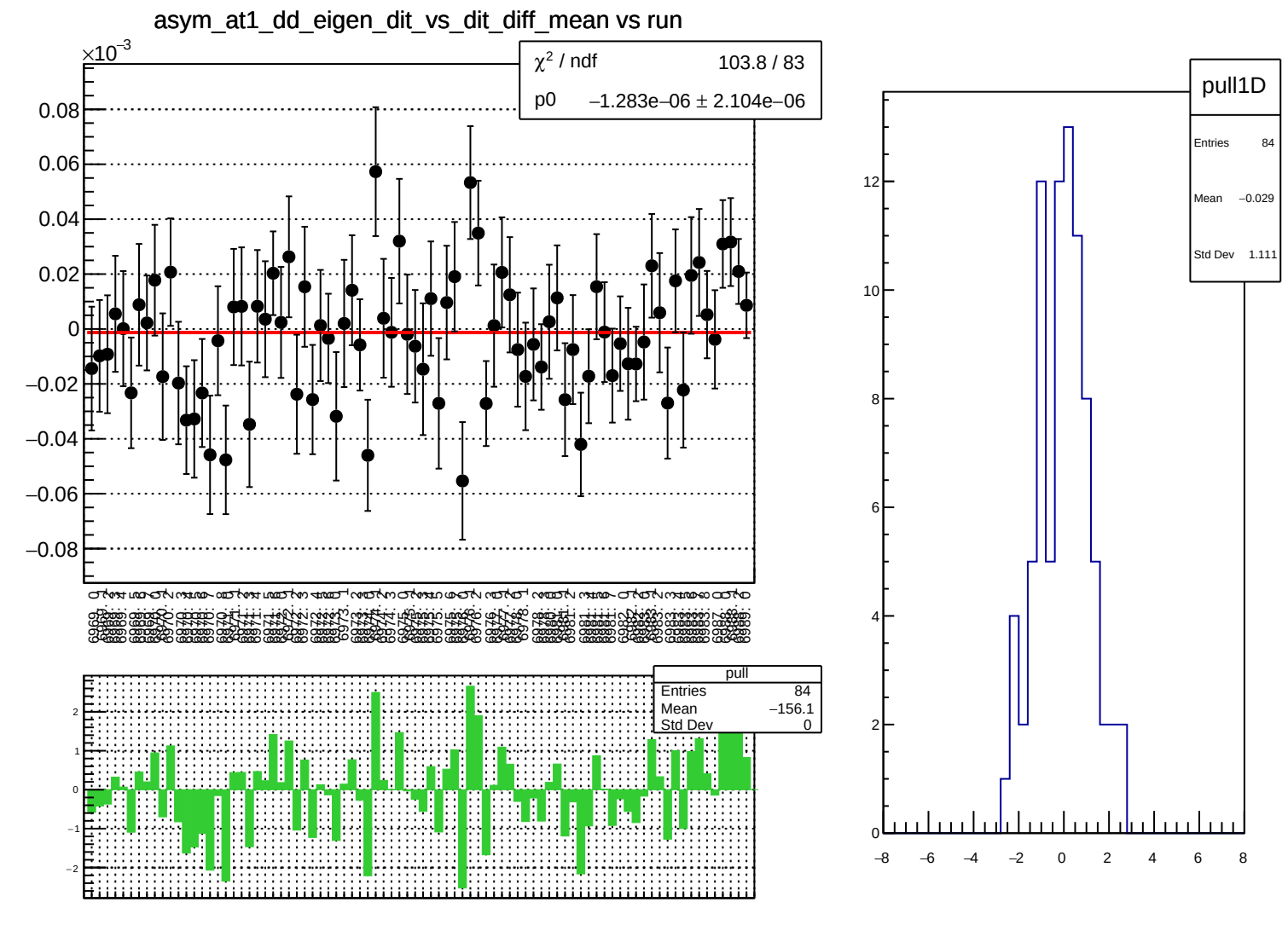
asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run

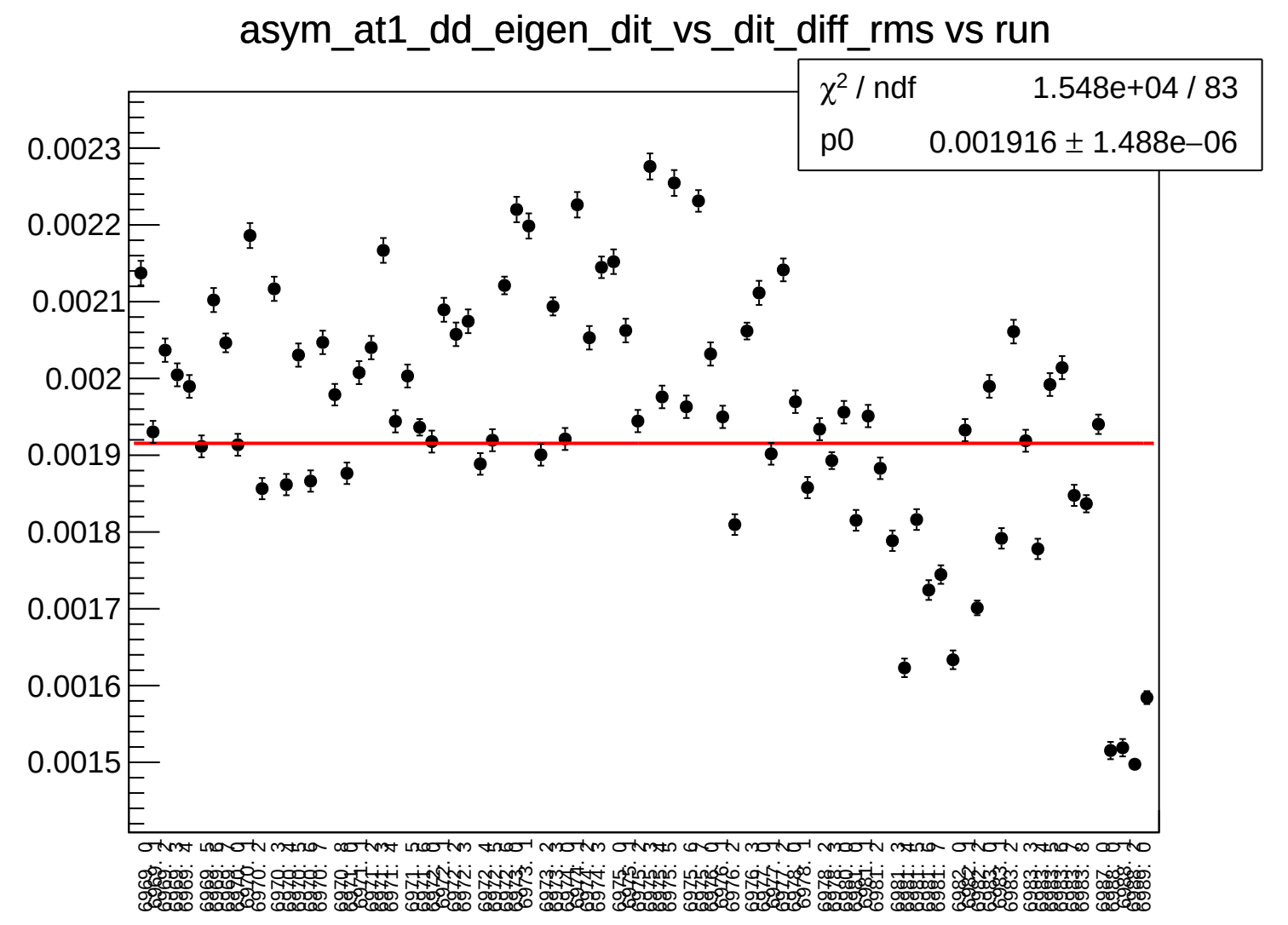


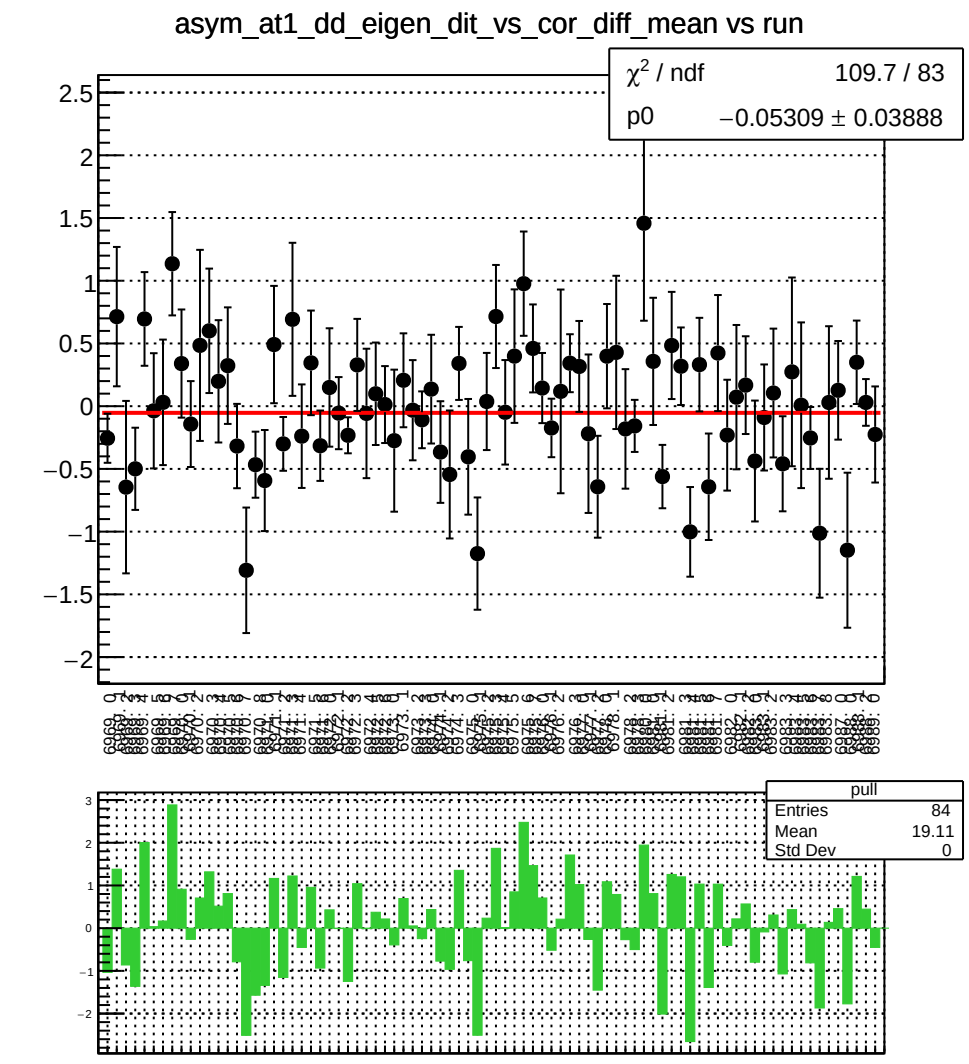


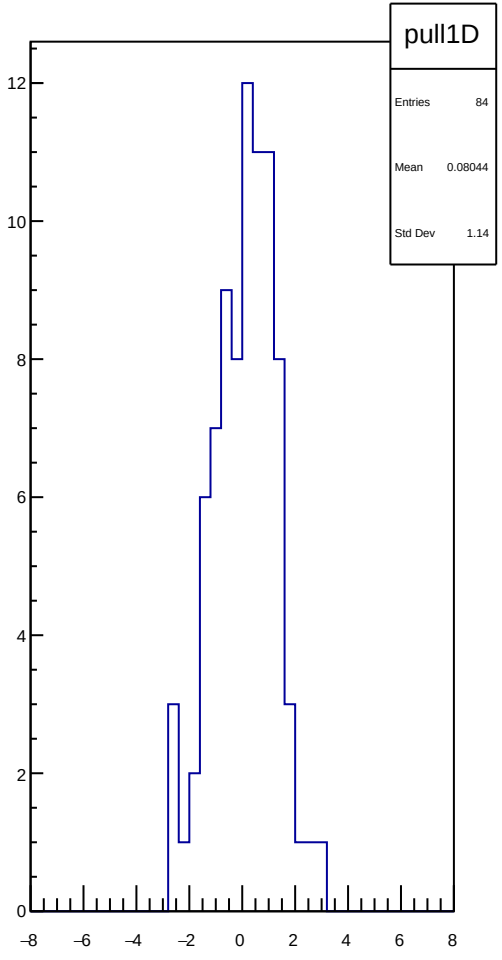


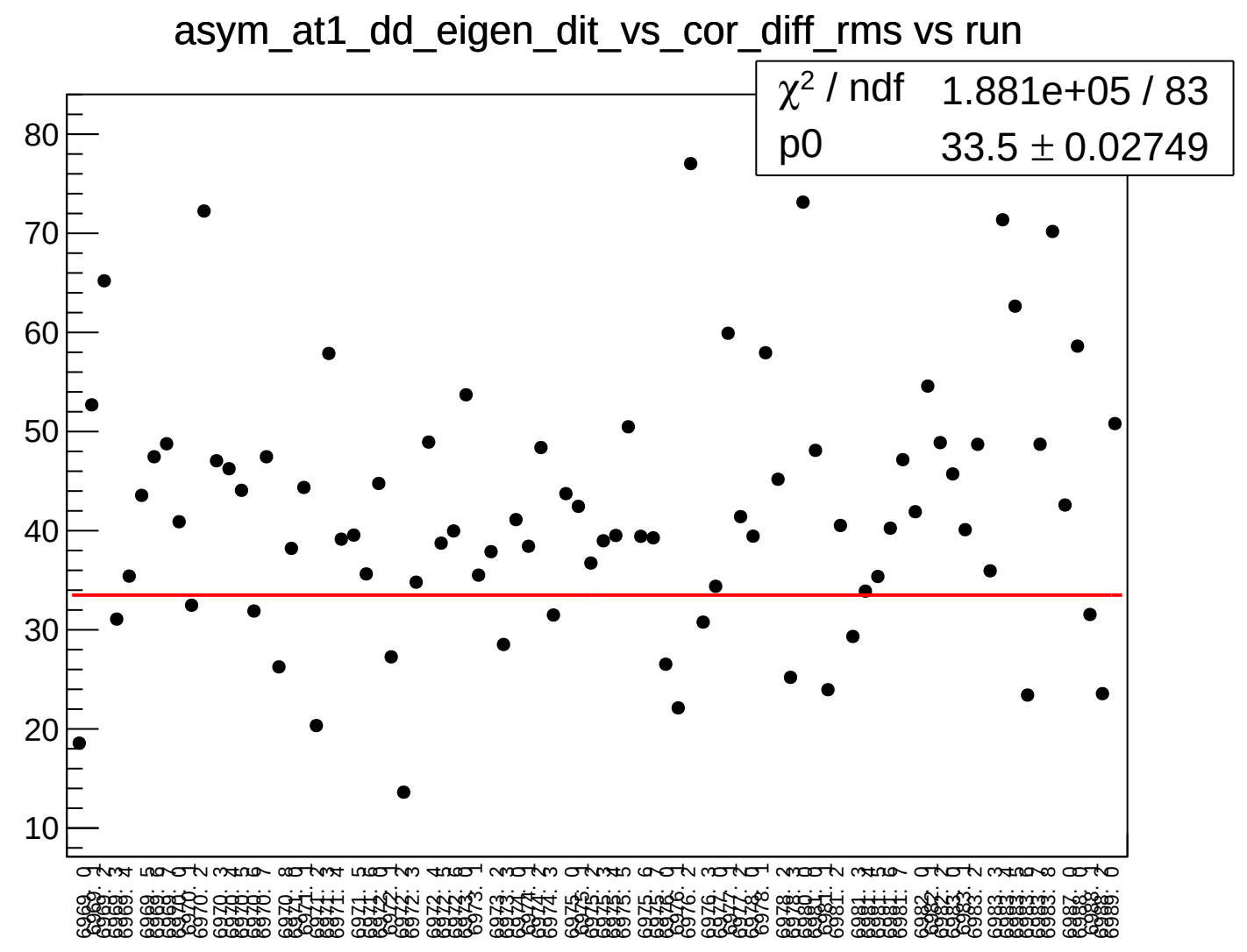

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.881e+05 / 83
p0 33.5 ± 0.02749
80
70
60
50
40
30
20
10

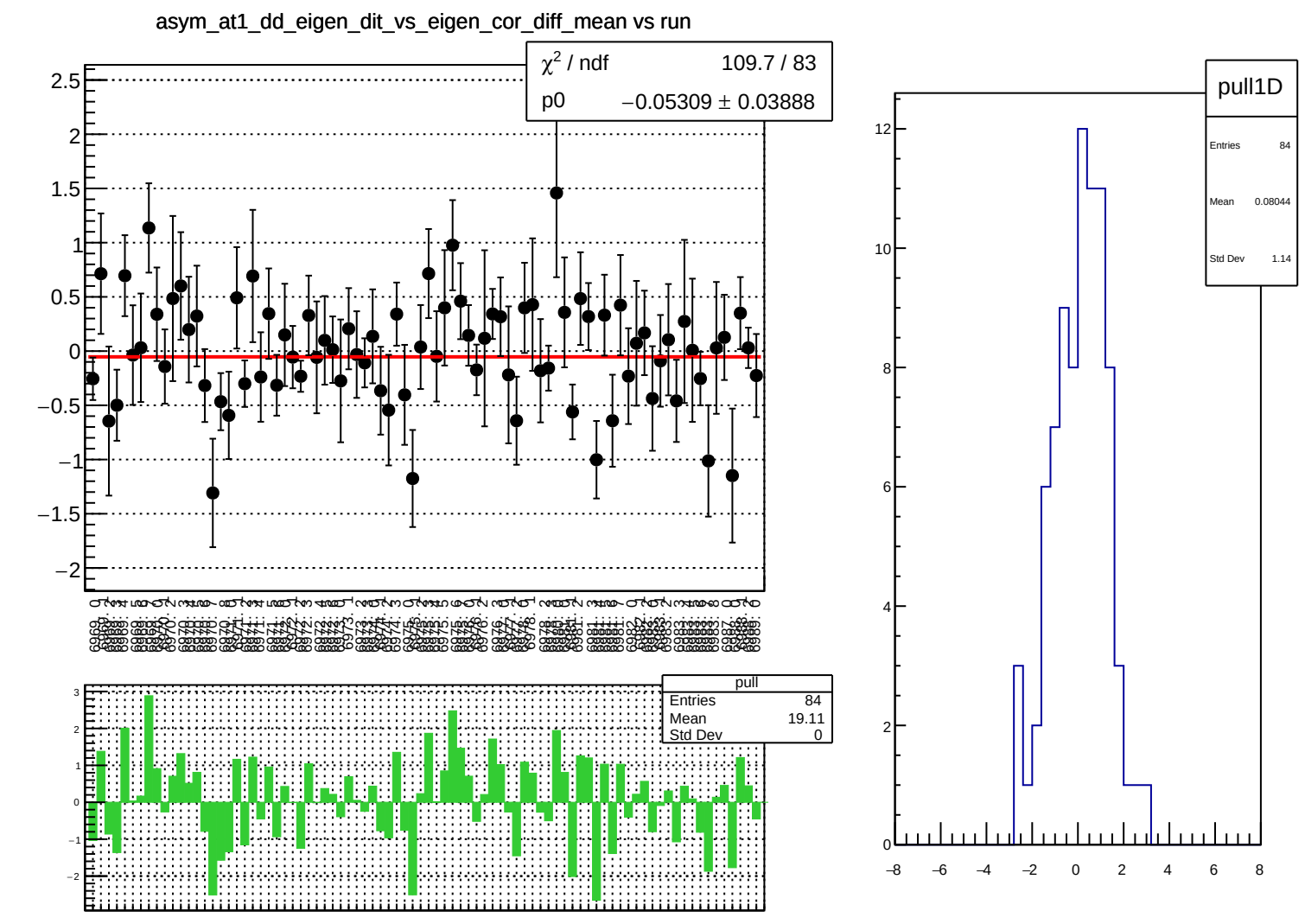

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.8 / 83
p0 −1.283e−06 ± 2.104e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean −156.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.029
Std Dev 1.111
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

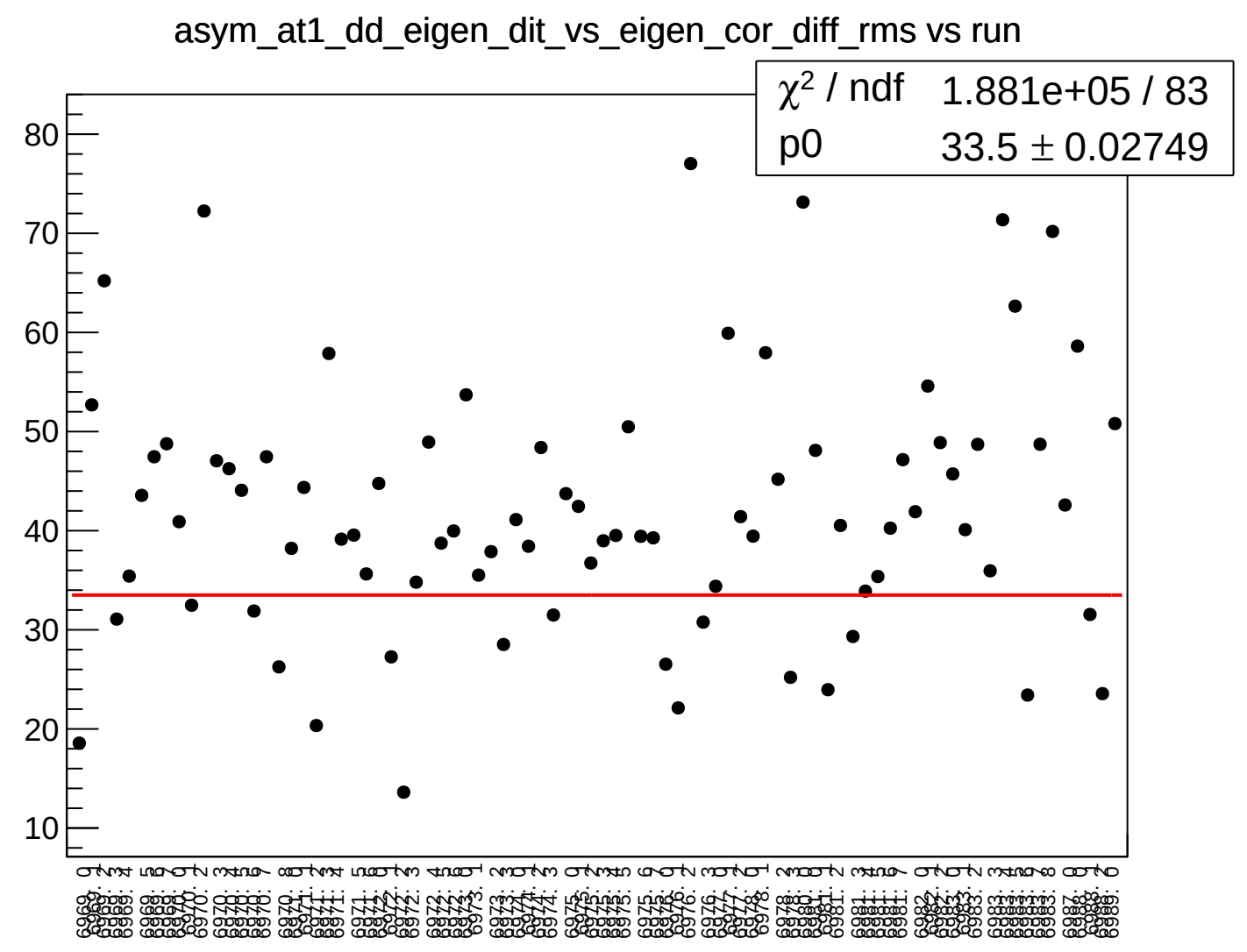

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.548e+04 / 83
p0 0.001916 ± 1.488e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

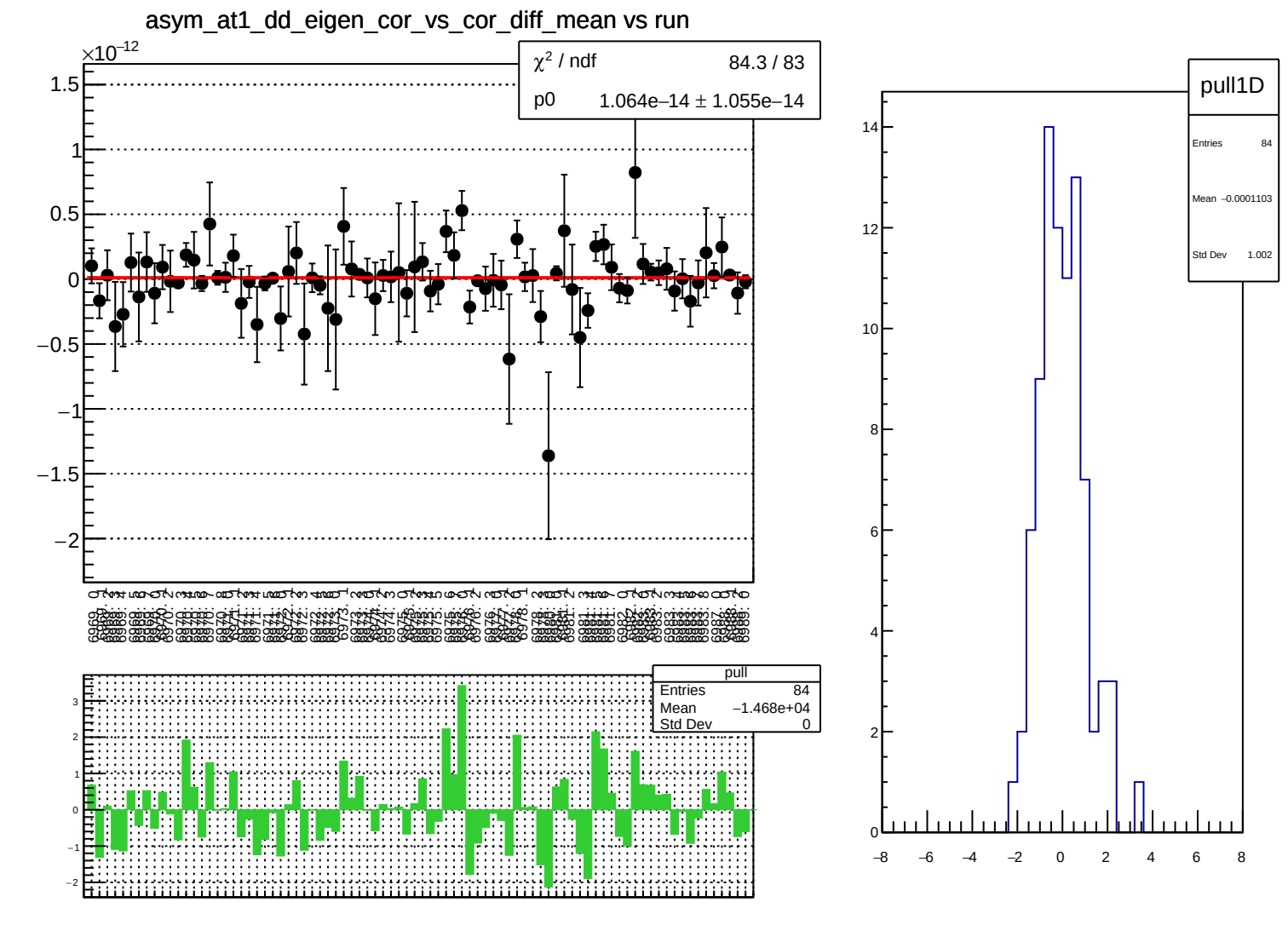

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 83
p0 −0.05309 ± 0.03888
pull
Entries 84
Mean 19.11
Std Dev 0

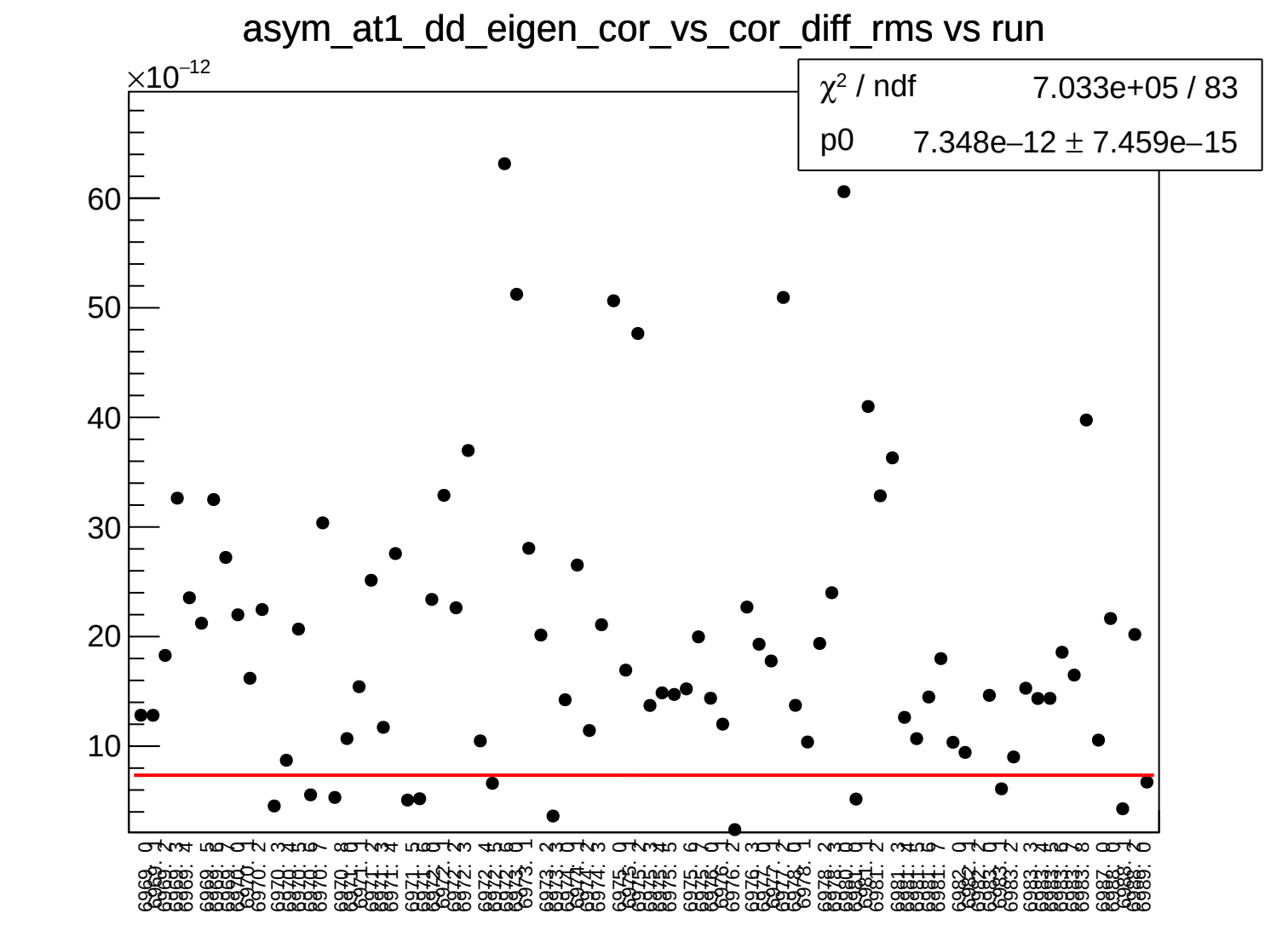

pull1D
Entries 84
Mean 0.08044
Std Dev 1.14

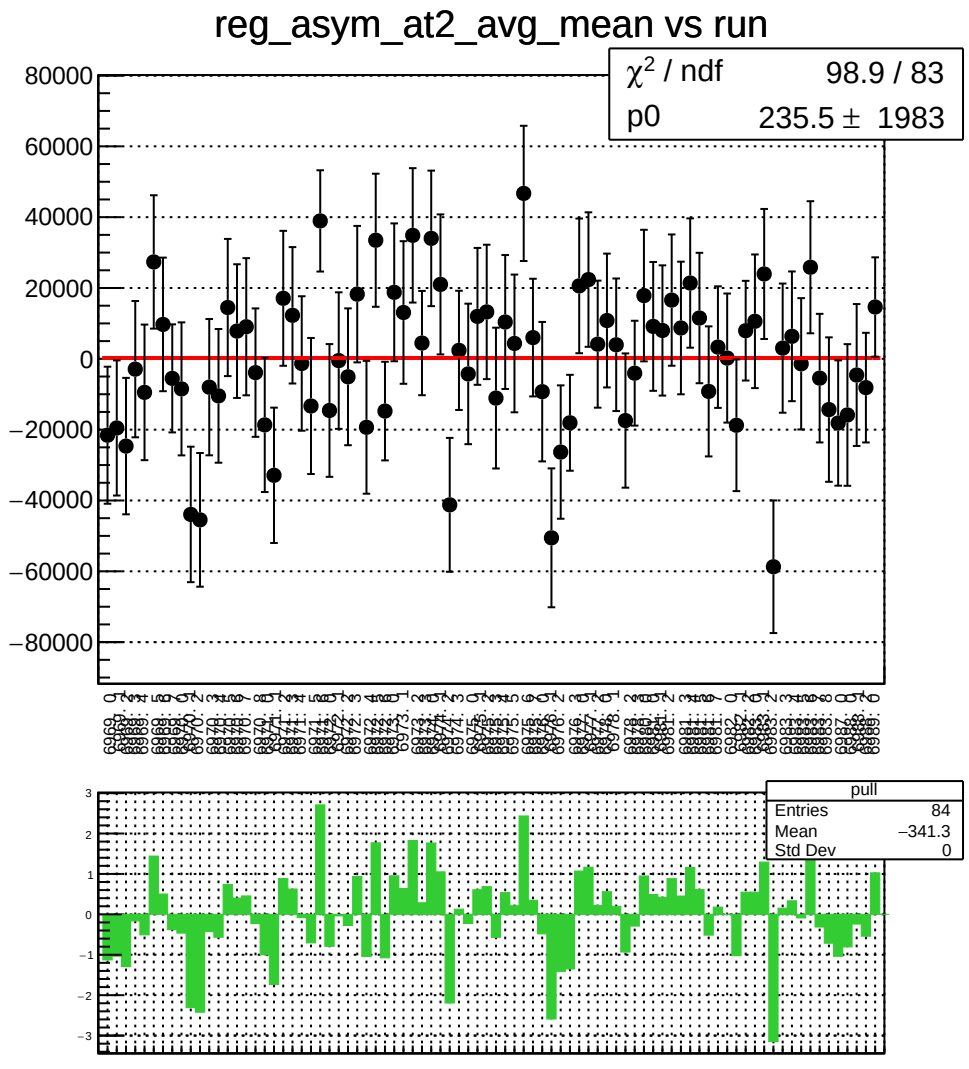

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.881e+05 / 83
p0 33.5 ± 0.02749
80
70
60
50
40
30
20
10

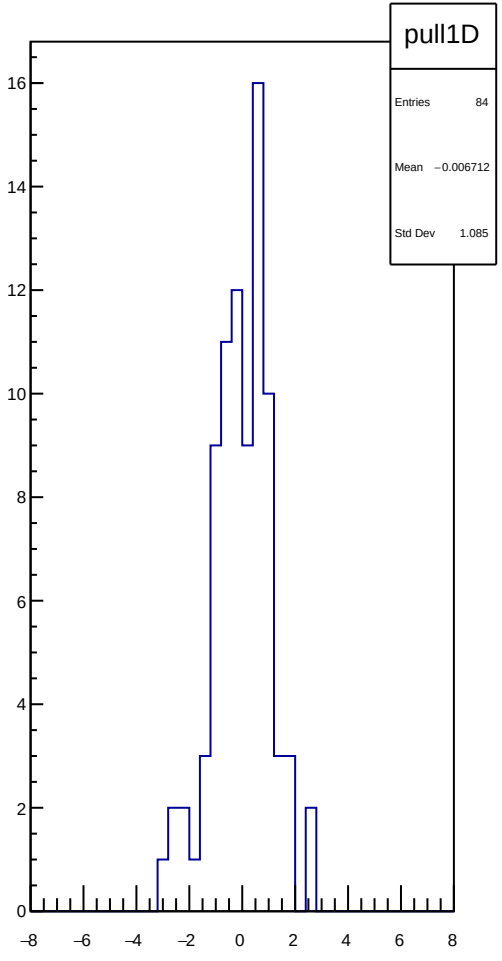

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 83
p0 −0.05309 ± 0.03888
pull
Entries 84
Mean 19.11
Std Dev 0
pull1D
Entries 84
Mean 0.08044
Std Dev 1.14

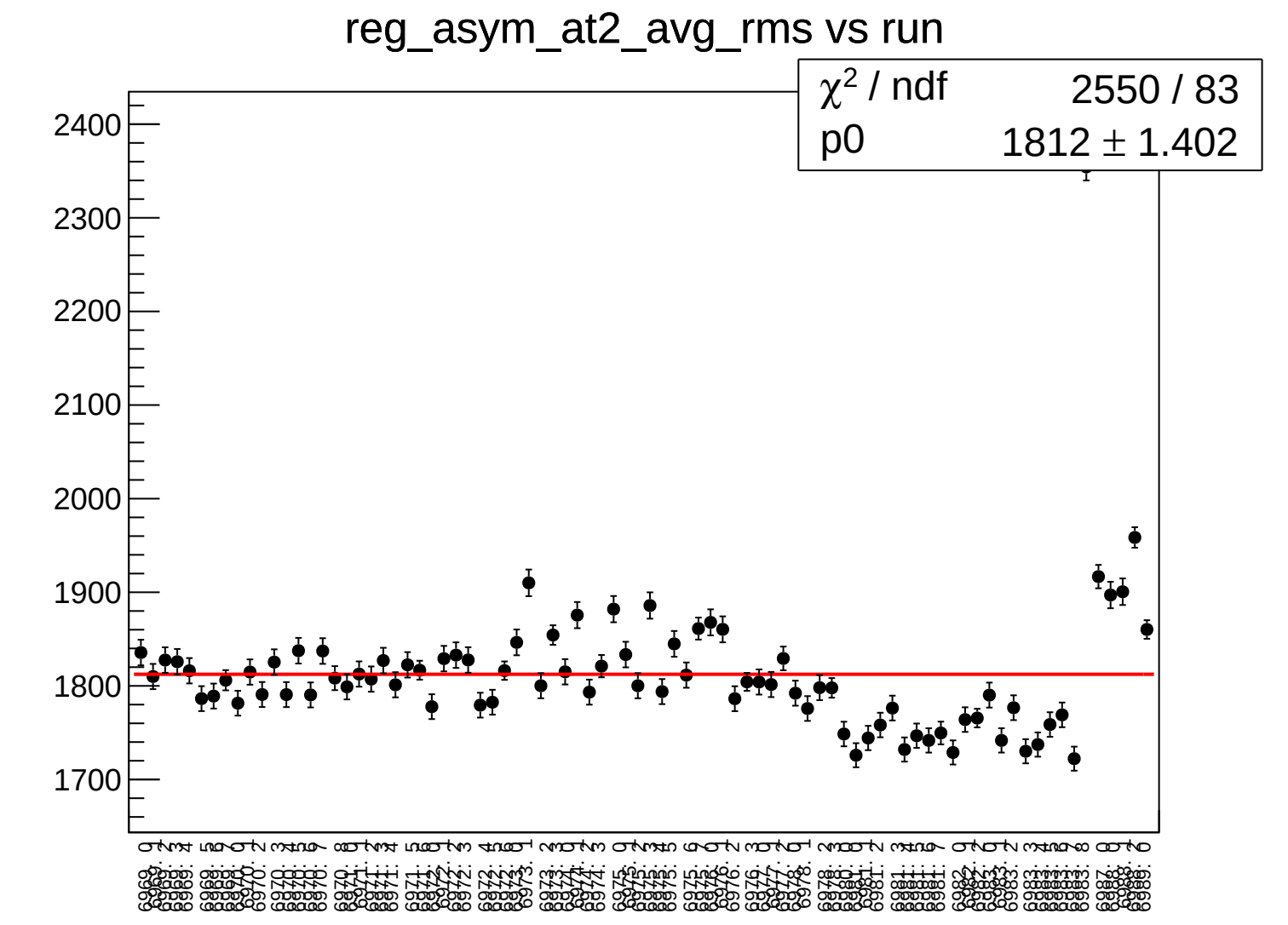

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.881e+05 / 83
p0 33.5 ± 0.02749
80
70
60
50
40
30
20
10

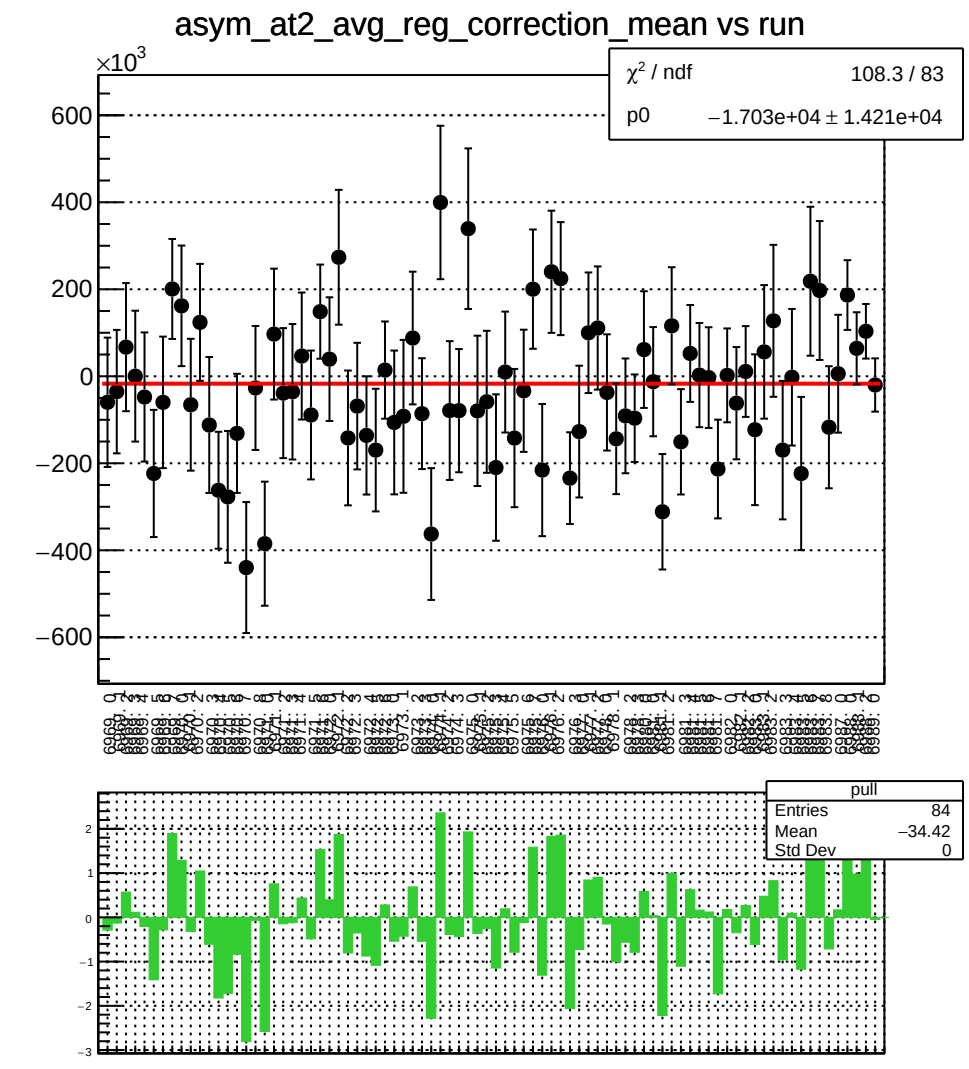

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.3 / 83
p0 1.064e−14 ± 1.055e−14
pull
Entries 84
Mean −1.468e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0001103
Std Dev 1.002

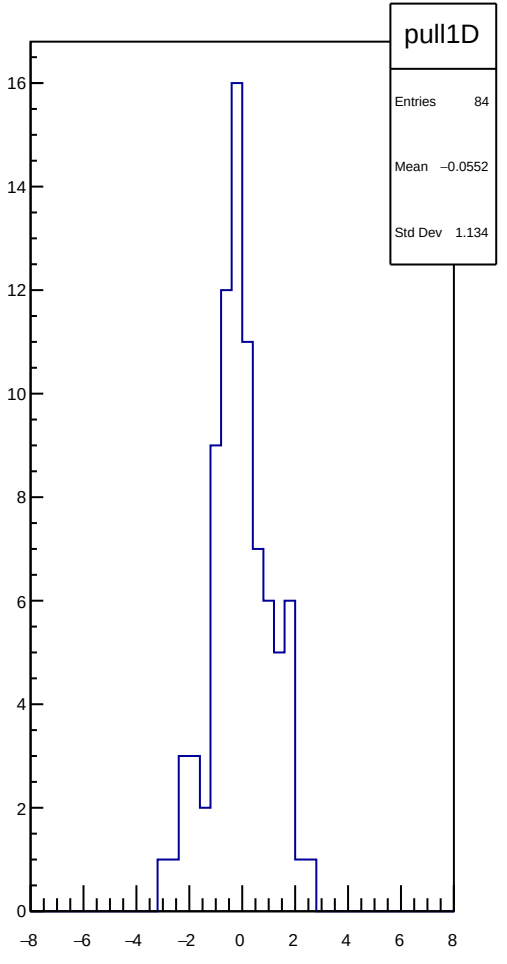

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.033e+05 / 83
p0 7.348e−12 ± 7.459e−15
60
50
40
30
20
10

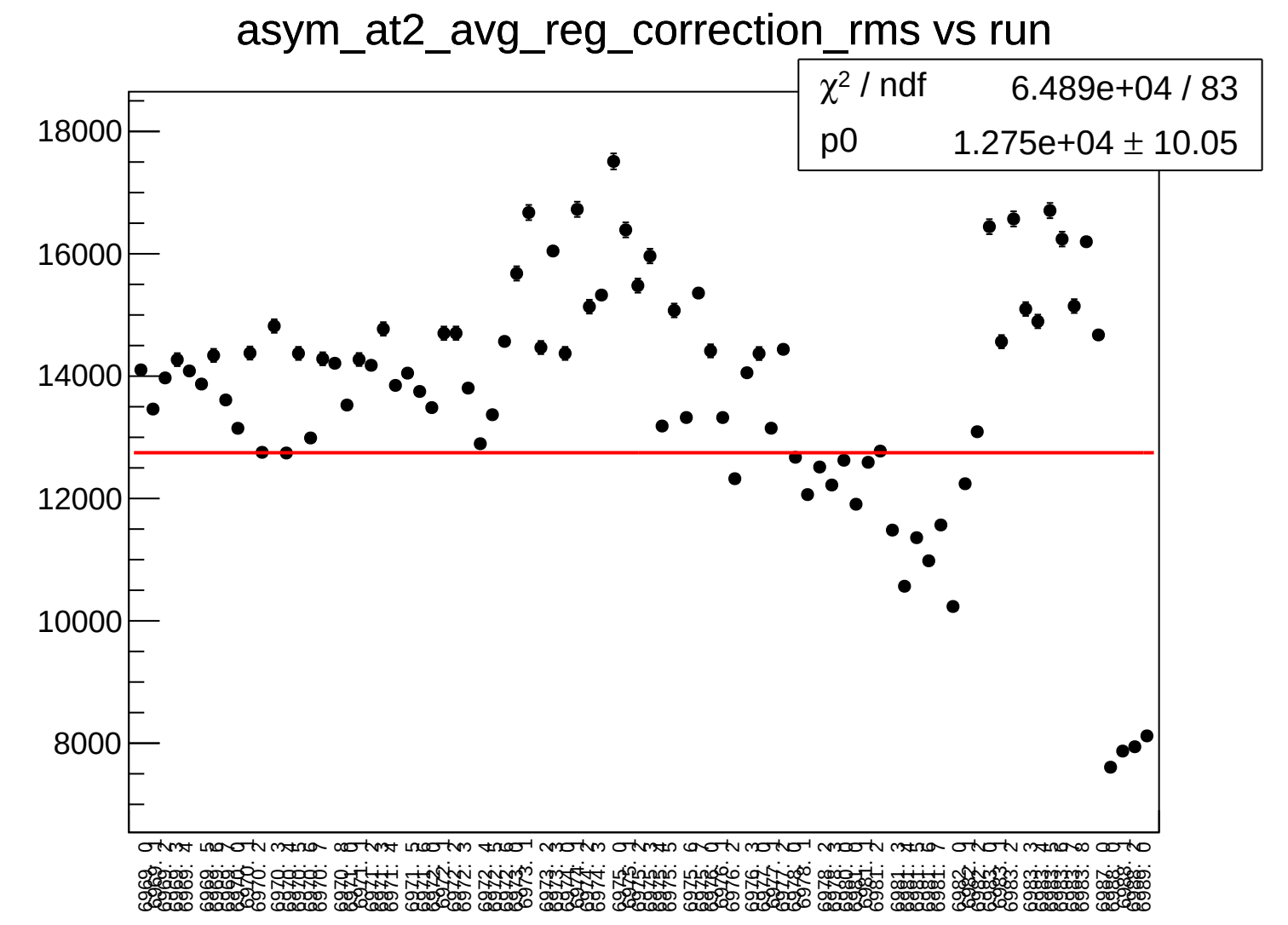

reg_asym_at2_avg_mean vs run
χ^2 / ndf 98.9 / 83
p0 235.5 ± 1983
pull
Entries 84
Mean −341.3
Std Dev 0

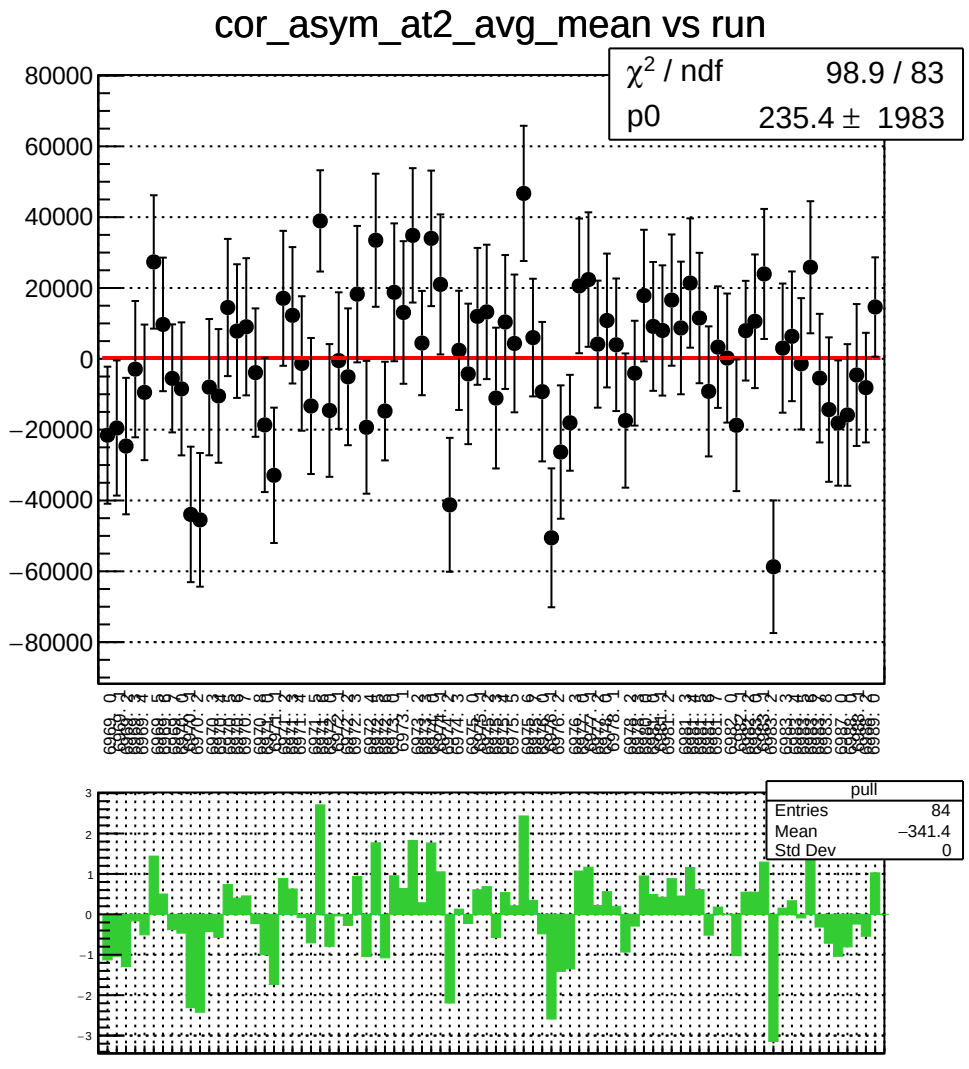

pull1D
Entries 84
Mean −0.006712
Std Dev 1.085

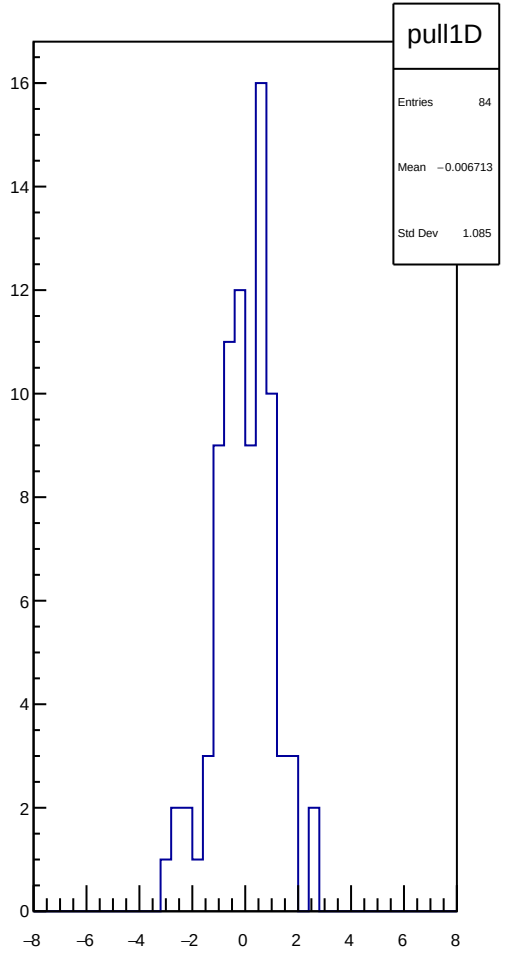

reg_asym_at2_avg_rms vs run
χ² / ndf 2550 / 83
p0 1812 ± 1.402
2400
2300
2200
2100
2000
1900
1800
1700

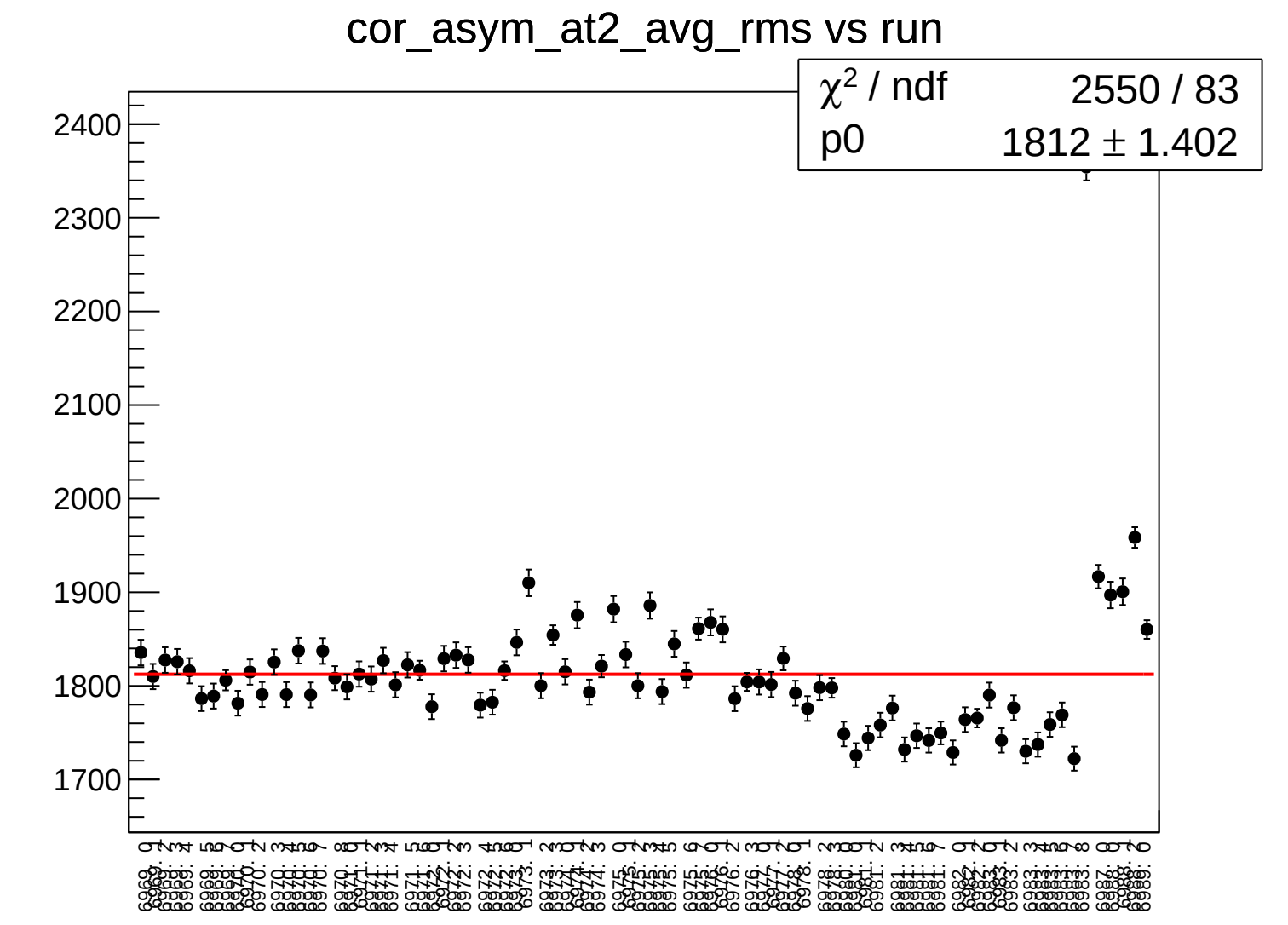

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 108.3 / 83
p0 −1.703e+04 ± 1.421e+04
pull
Entries 84
Mean −34.42
Std Dev 0

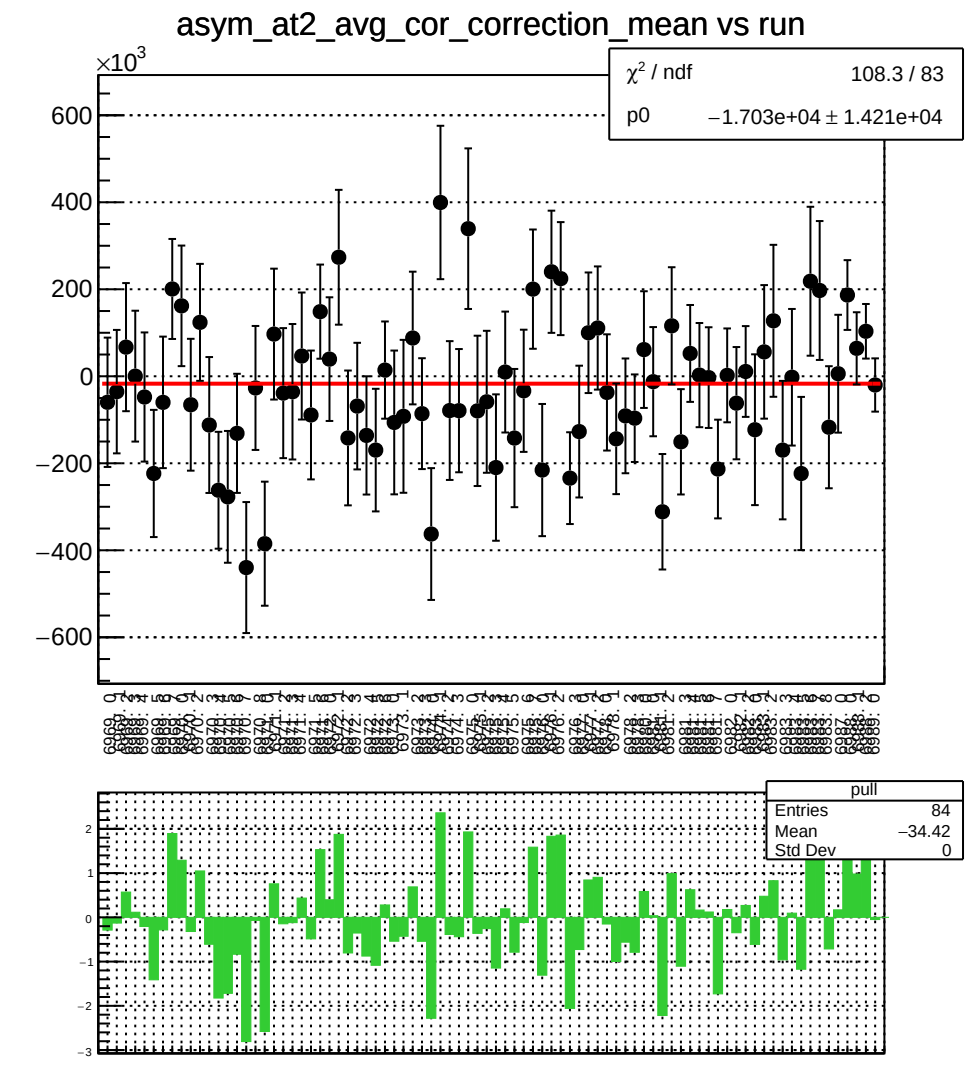

pull1D
Entries 84
Mean −0.0552
Std Dev 1.134

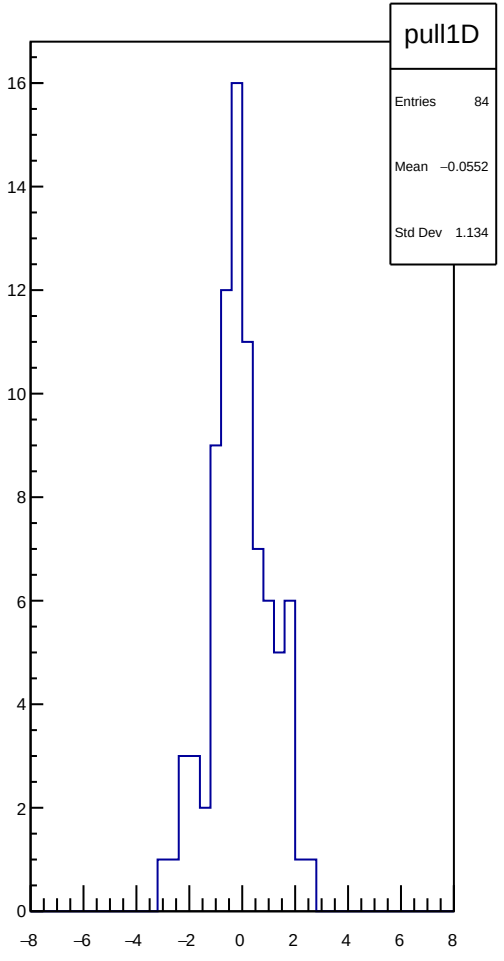

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 6.489e+04 / 83
p0 1.275e+04 ± 10.05
18000
16000
14000
12000
10000
8000

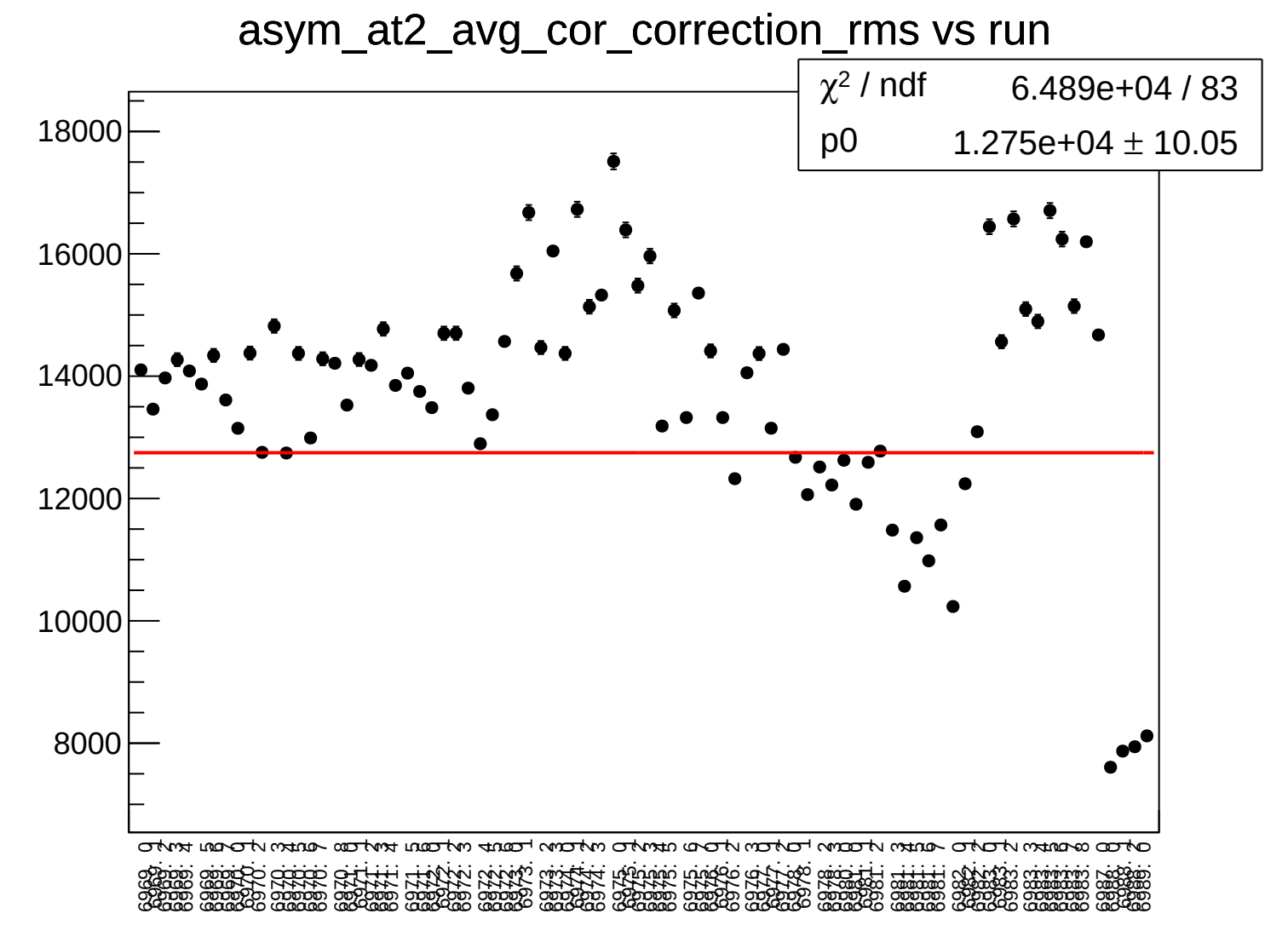

cor_asym_at2_avg_mean vs run
χ² / ndf 98.9 / 83
p0 235.4 ± 1983
pull
Entries 84
Mean −341.4
Std Dev 0

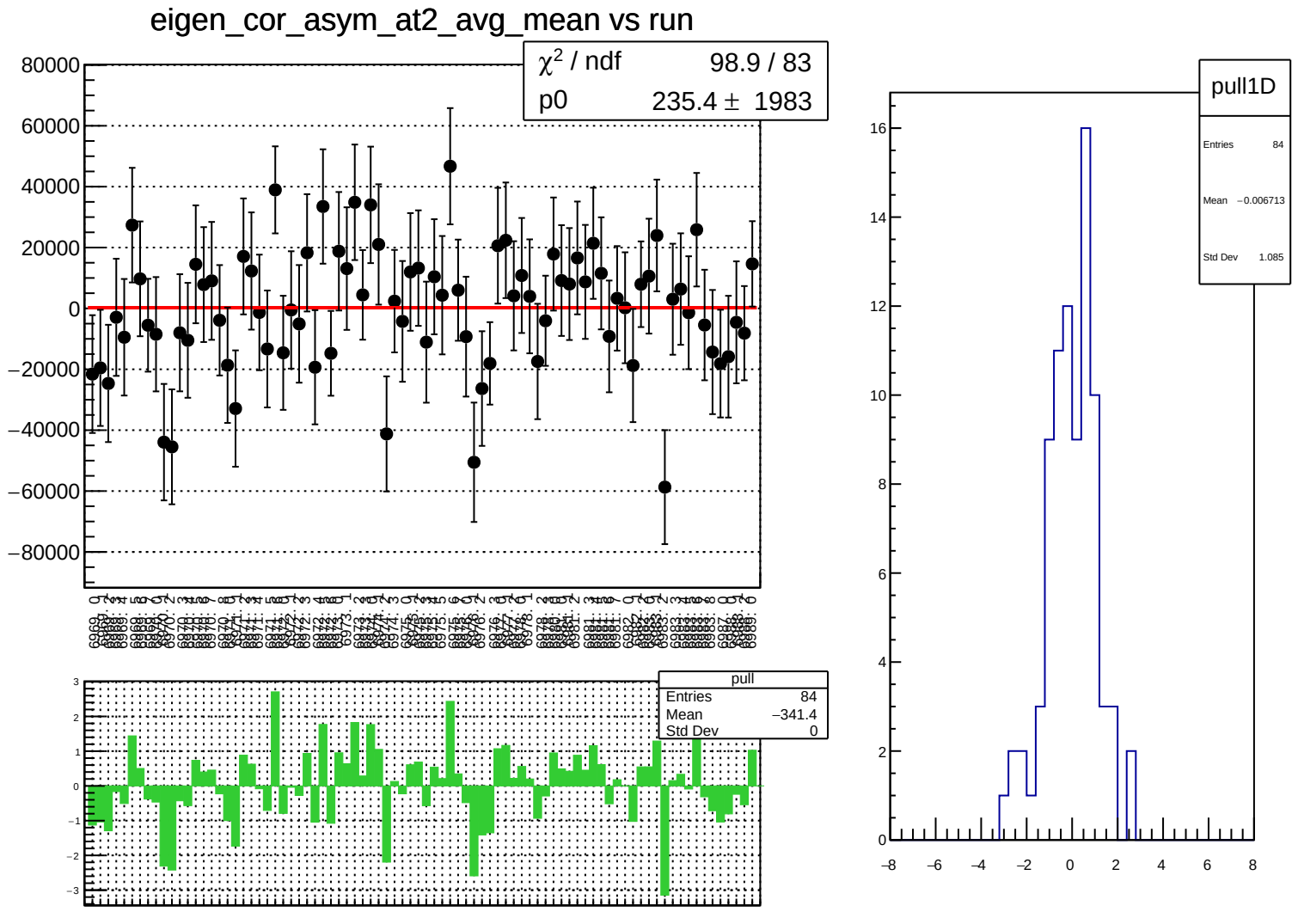

pull1D
Entries 84
Mean −0.006713
Std Dev 1.085

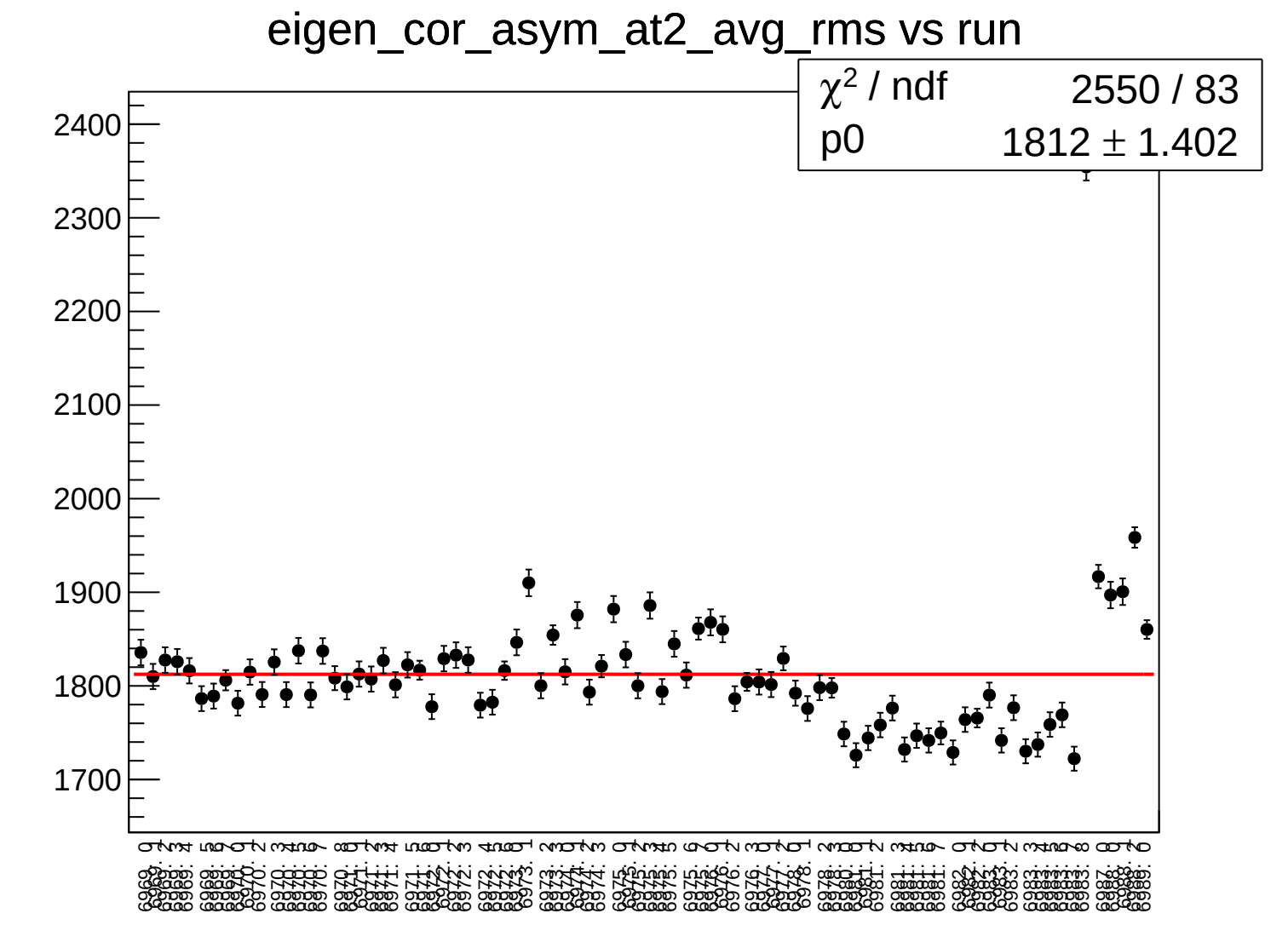

cor_asym_at2_avg_rms vs run
χ² / ndf 2550 / 83
p0 1812 ± 1.402
2400
2300
2200
2100
2000
1900
1800
1700

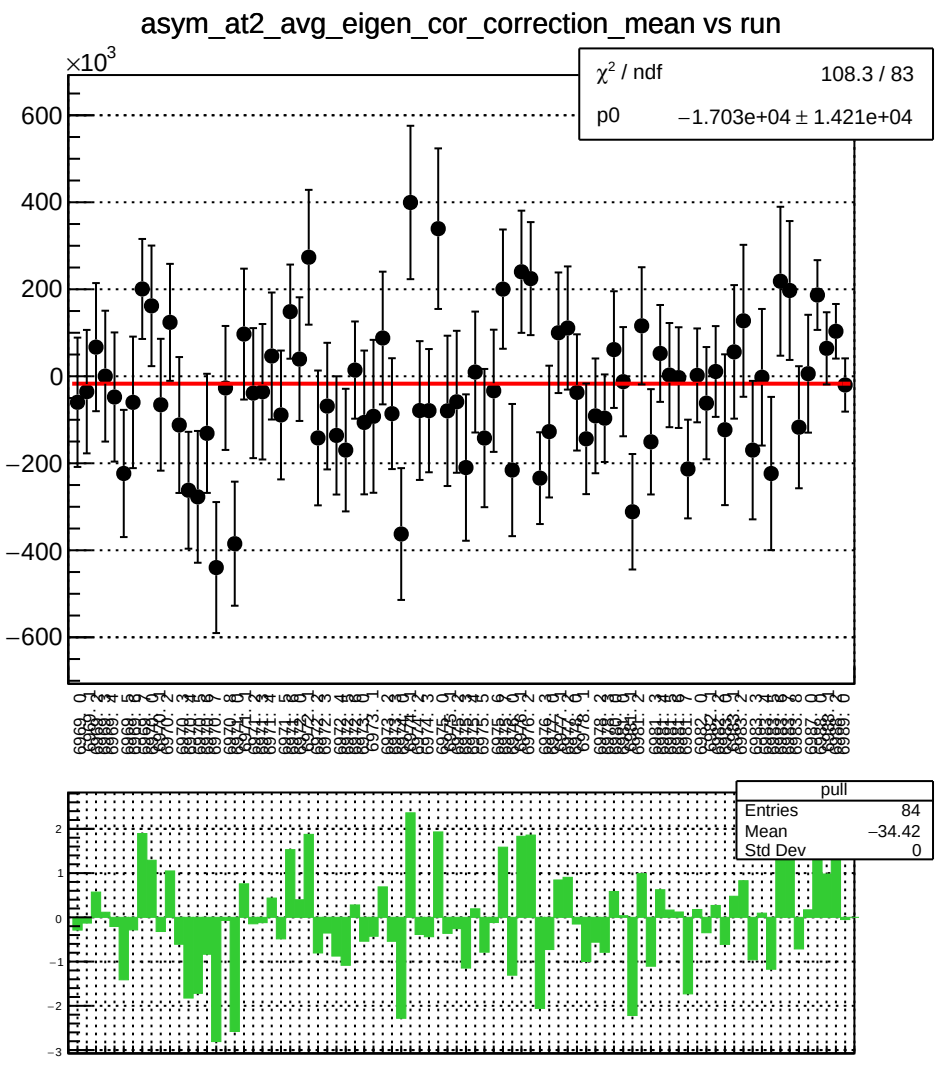

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 108.3 / 83
p0 −1.703e+04 ± 1.421e+04
pull
Entries 84
Mean −34.42
Std Dev 0

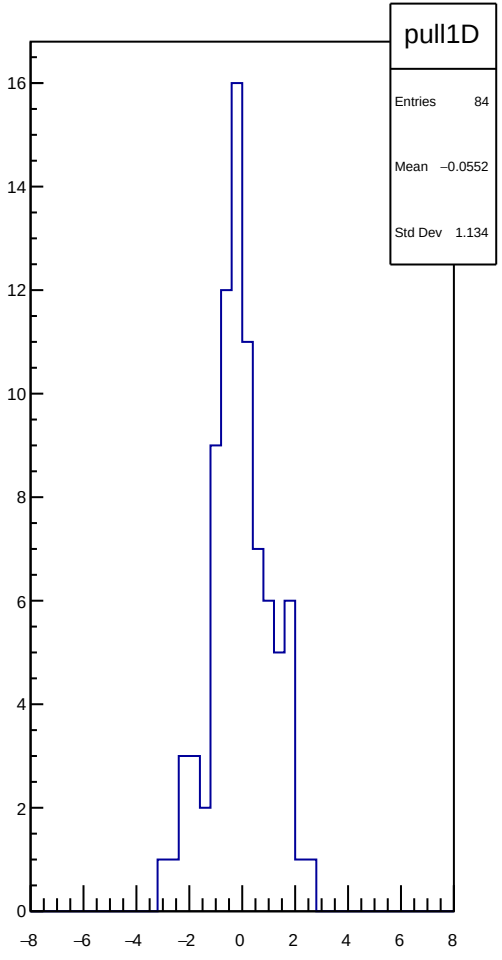

pull1D
Entries 84
Mean −0.0552
Std Dev 1.134

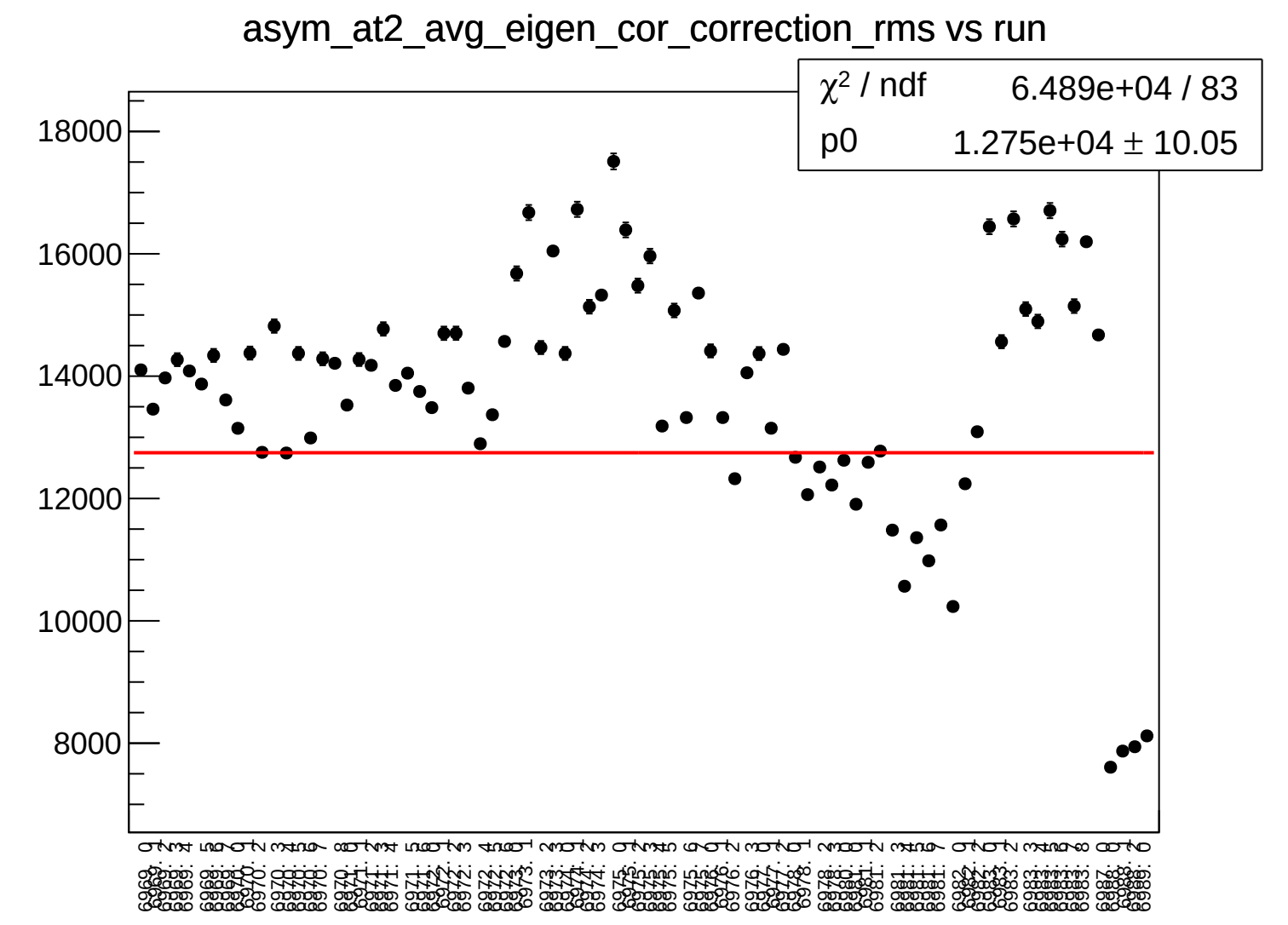

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 6.489e+04 / 83
p0 1.275e+04 ± 10.05
18000
16000
14000
12000
10000
8000

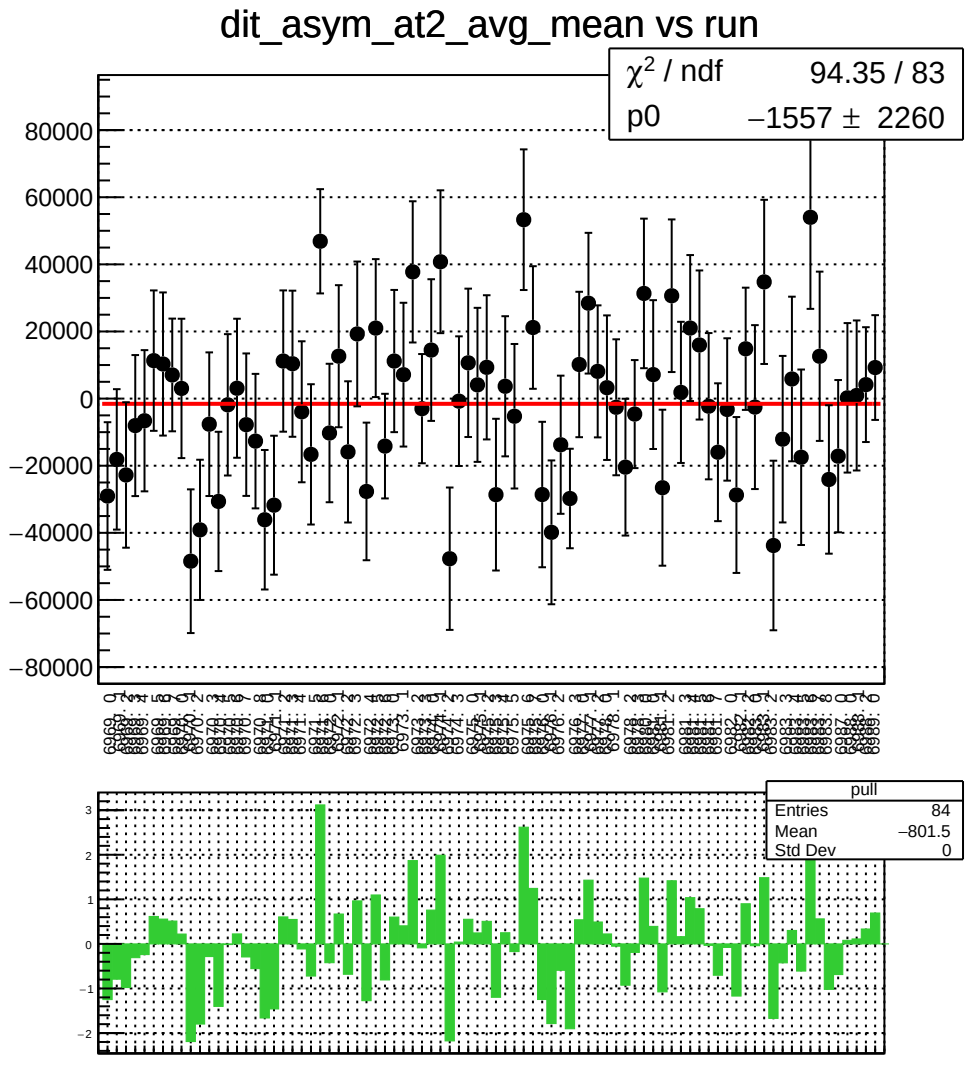

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 98.9 / 83
p0 235.4 ± 1983
pull
Entries 84
Mean −341.4
Std Dev 0
pull1D
Entries 84
Mean −0.006713
Std Dev 1.085

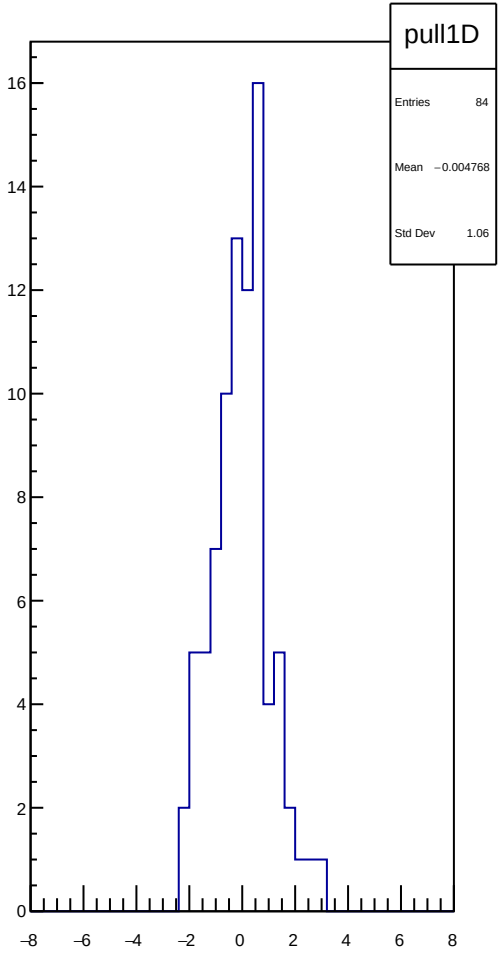

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 2550 / 83
p0 1812 ± 1.402
2400
2300
2200
2100
2000
1900
1800
1700

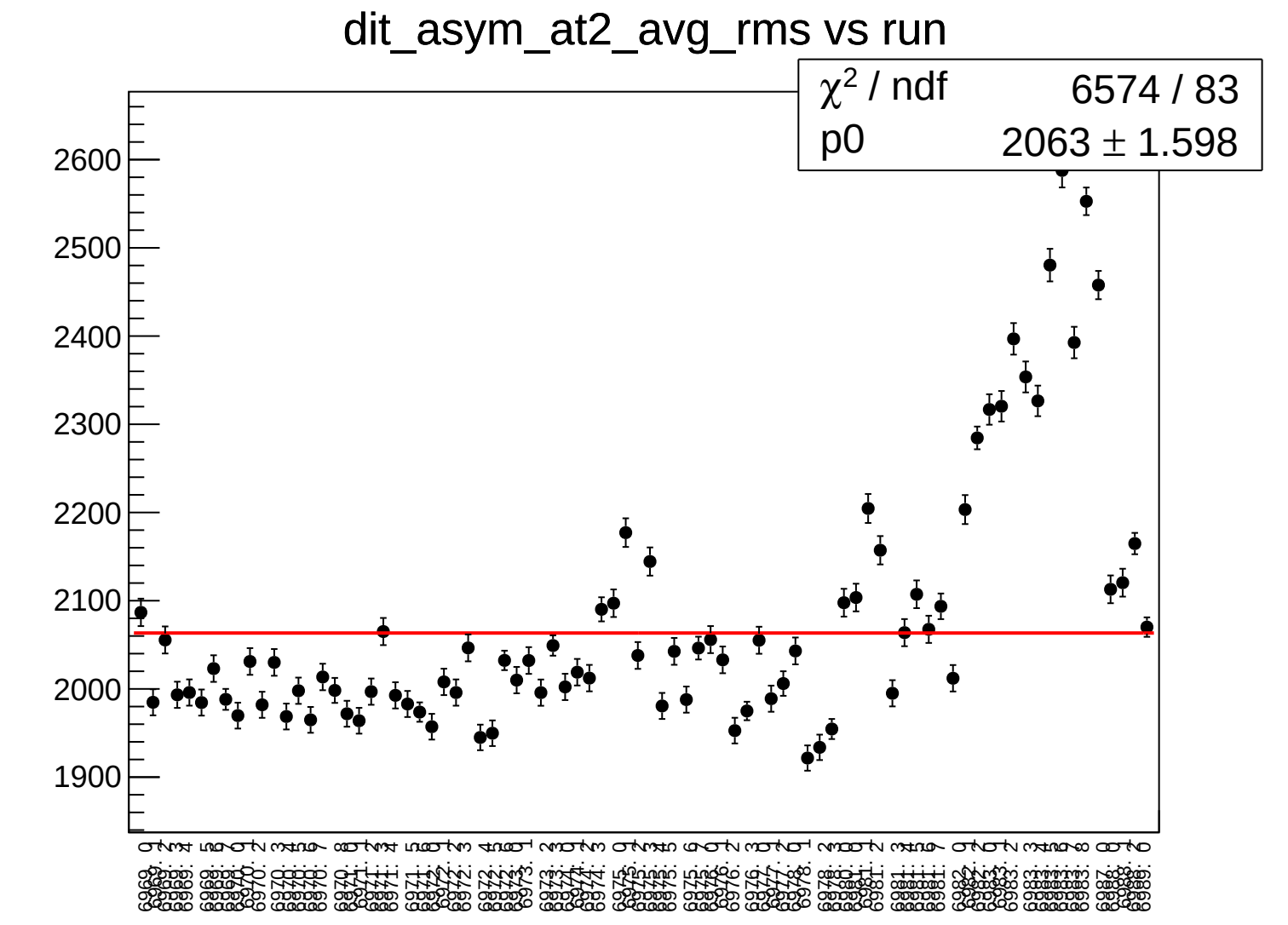

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108.3 / 83
p0 −1.703e+04 ± 1.421e+04
pull
Entries 84
Mean −34.42
Std Dev 0

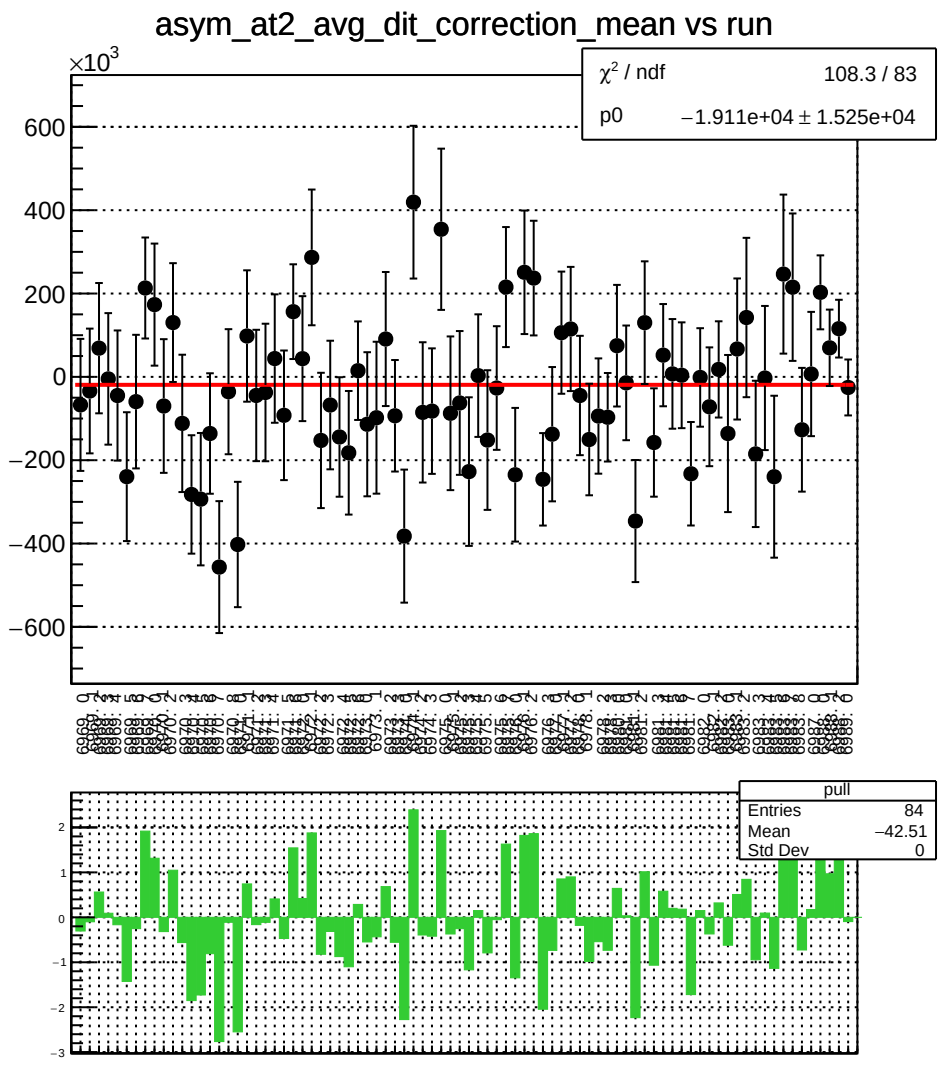

pull1D
Entries 84
Mean −0.0552
Std Dev 1.134

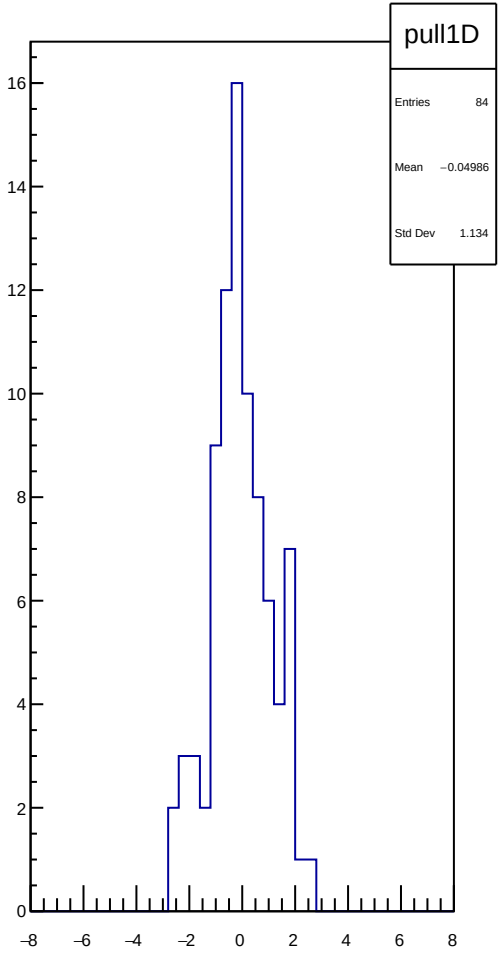

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.489e+04 / 83
p0 1.275e+04 ± 10.05
18000
16000
14000
12000
10000
8000

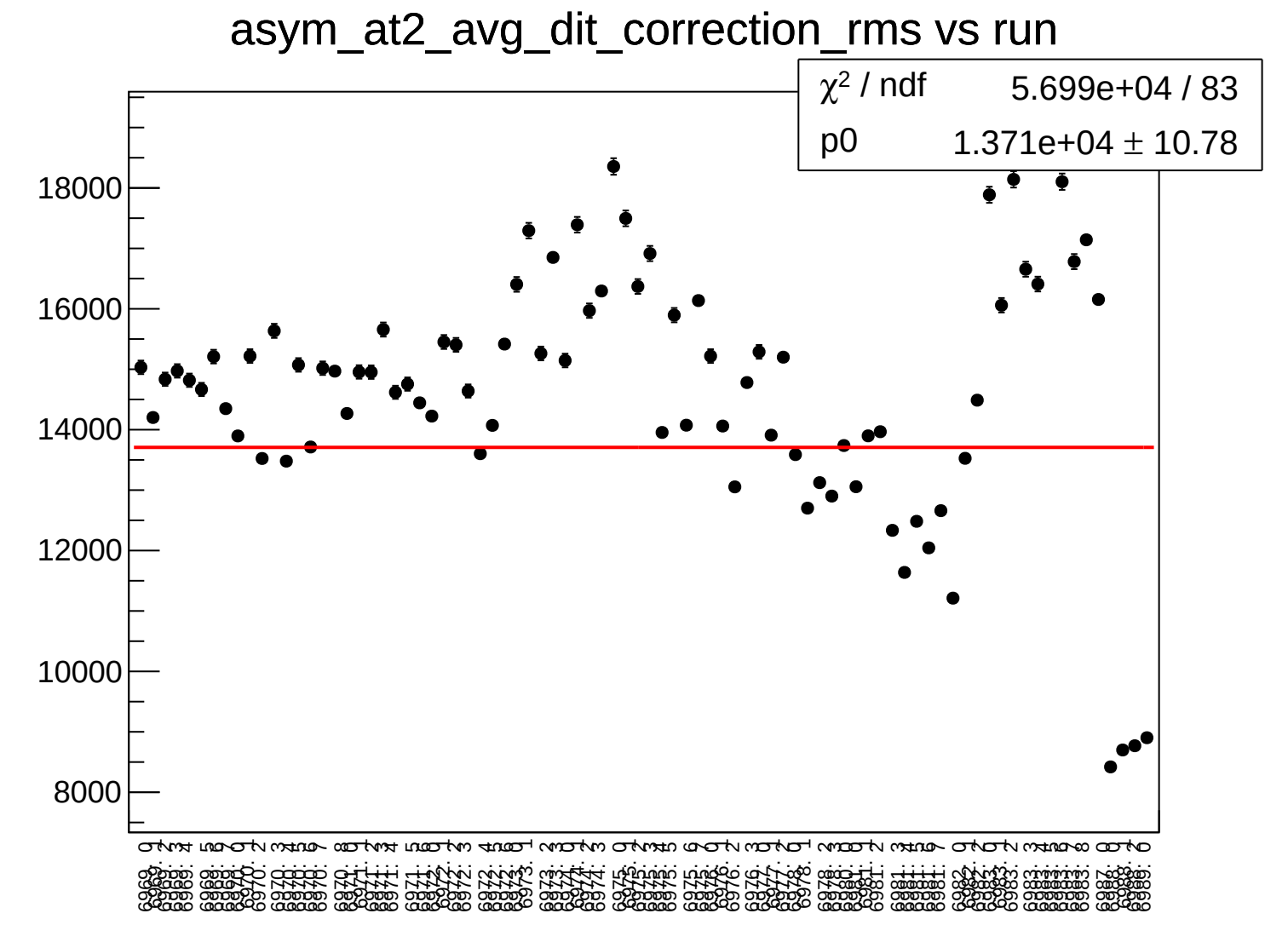

dit_asym_at2_avg_mean vs run
χ² / ndf 94.35 / 83
p0 −1557 ± 2260
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −801.5
Std Dev 0
3
2
1
0
−1
−2

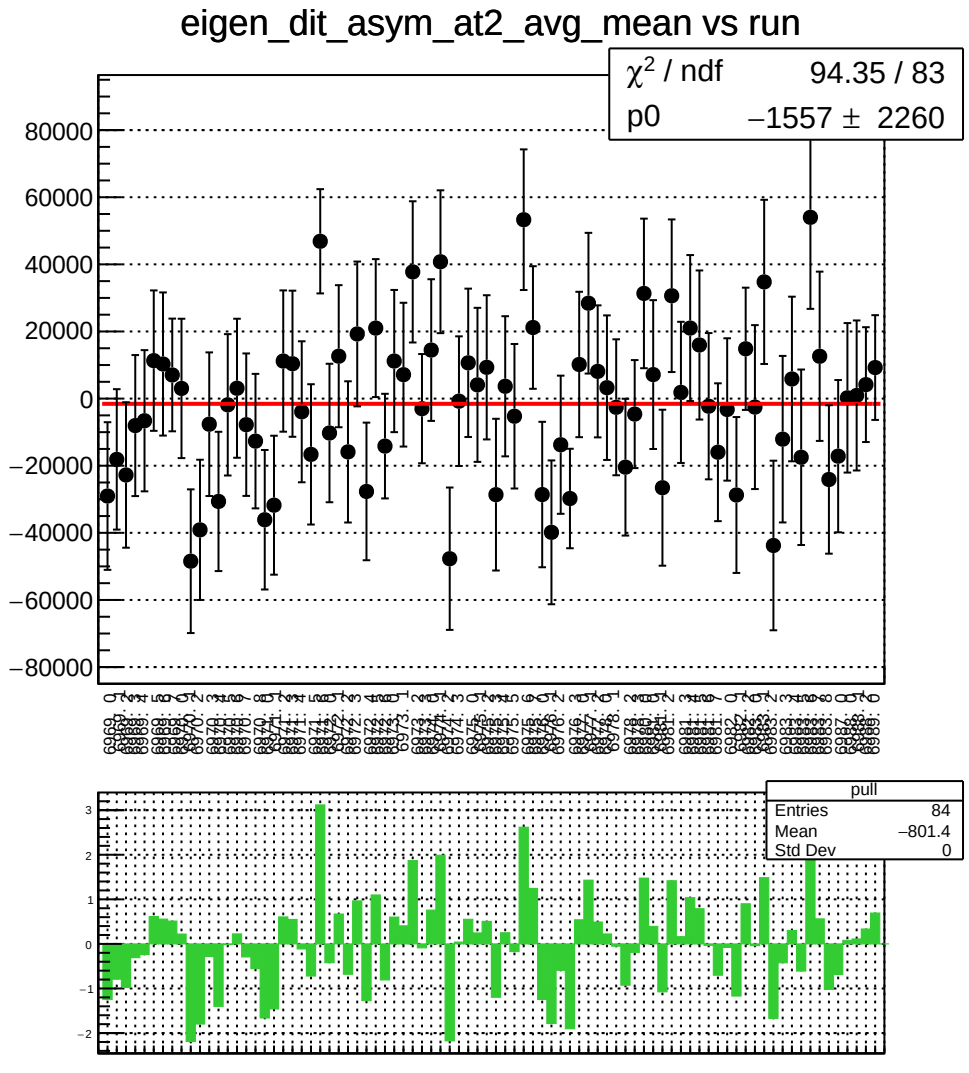

pull1D
Entries 84
Mean −0.004768
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

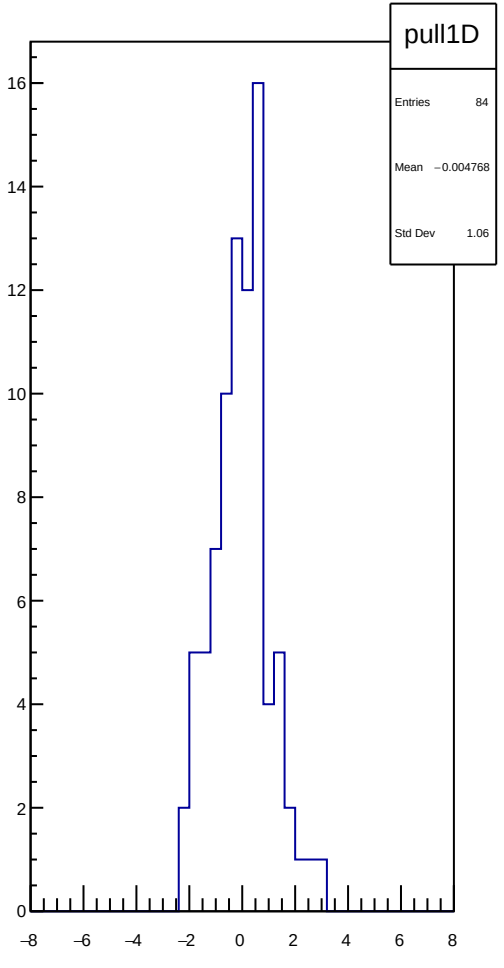

dit_asym_at2_avg_rms vs run
χ² / ndf 6574 / 83
p0 2063 ± 1.598
2600
2500
2400
2300
2200
2100
2000
1900

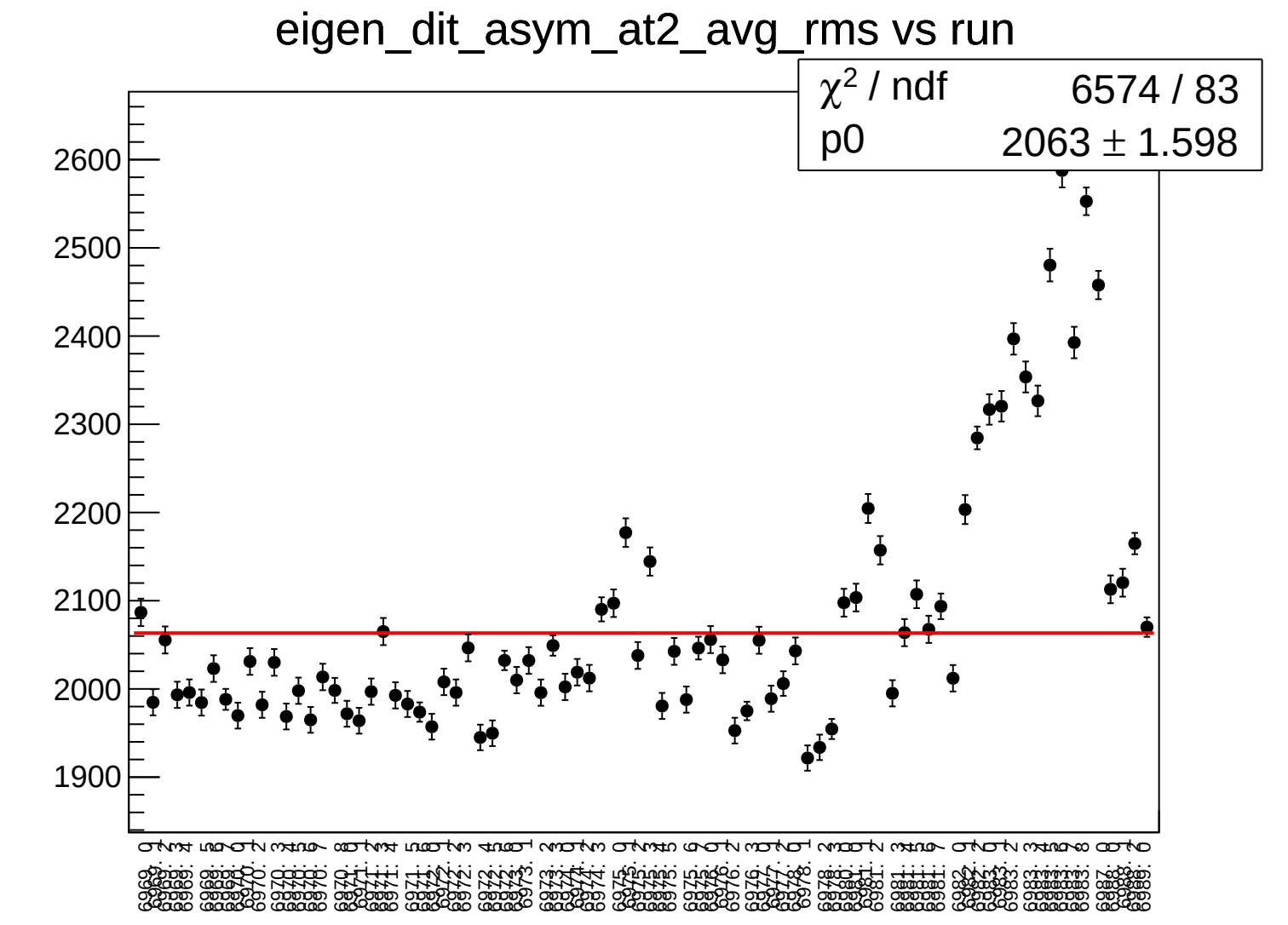

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 108.3 / 83
p0 −1.911e+04 ± 1.525e+04
pull
Entries 84
Mean −42.51
Std Dev 0

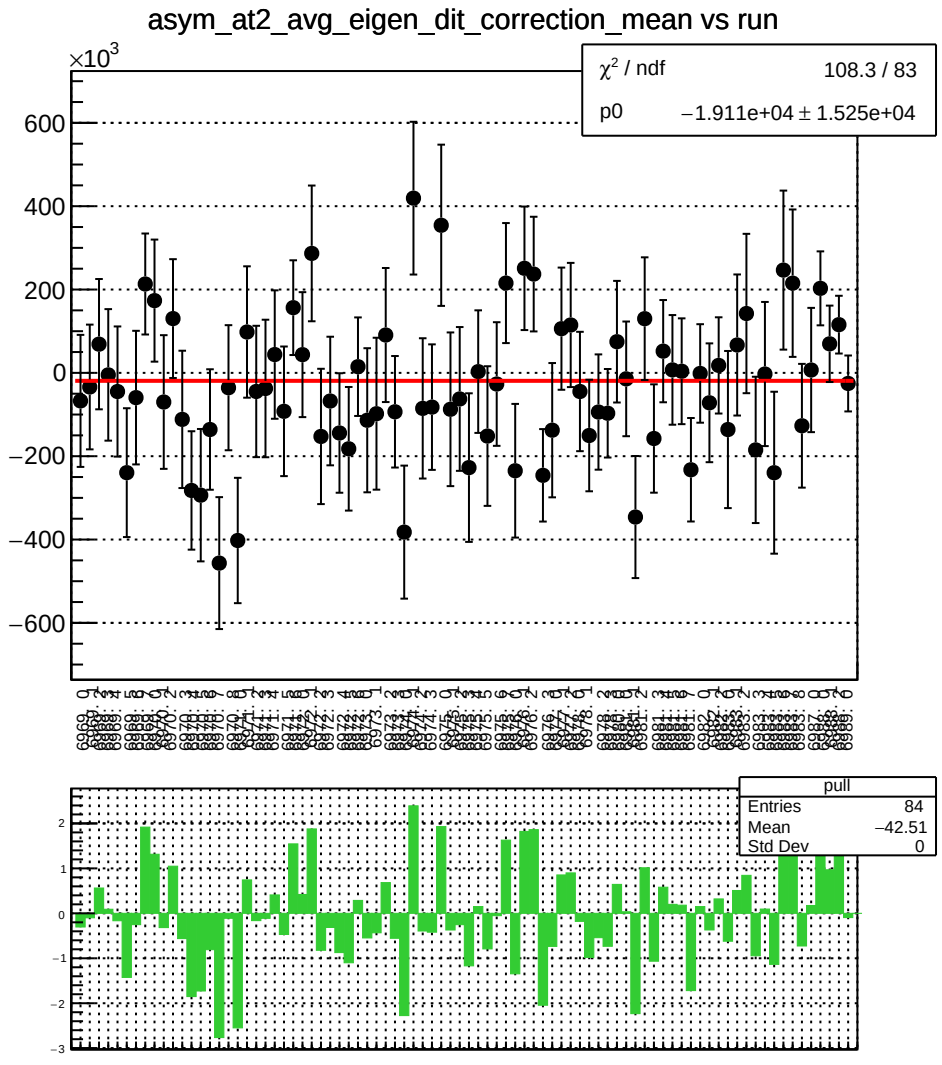

pull1D
Entries 84
Mean −0.04986
Std Dev 1.134

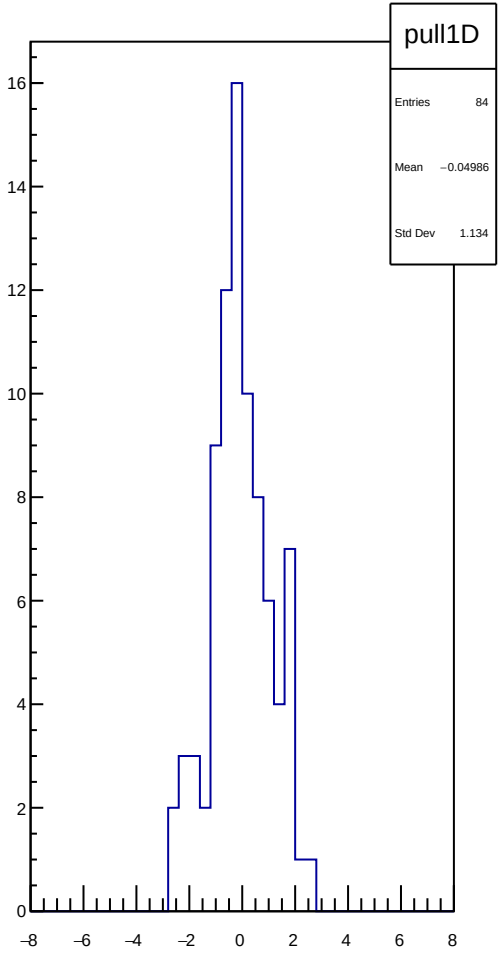

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 5.699e+04 / 83
p0 1.371e+04 ± 10.78
18000
16000
14000
12000
10000
8000

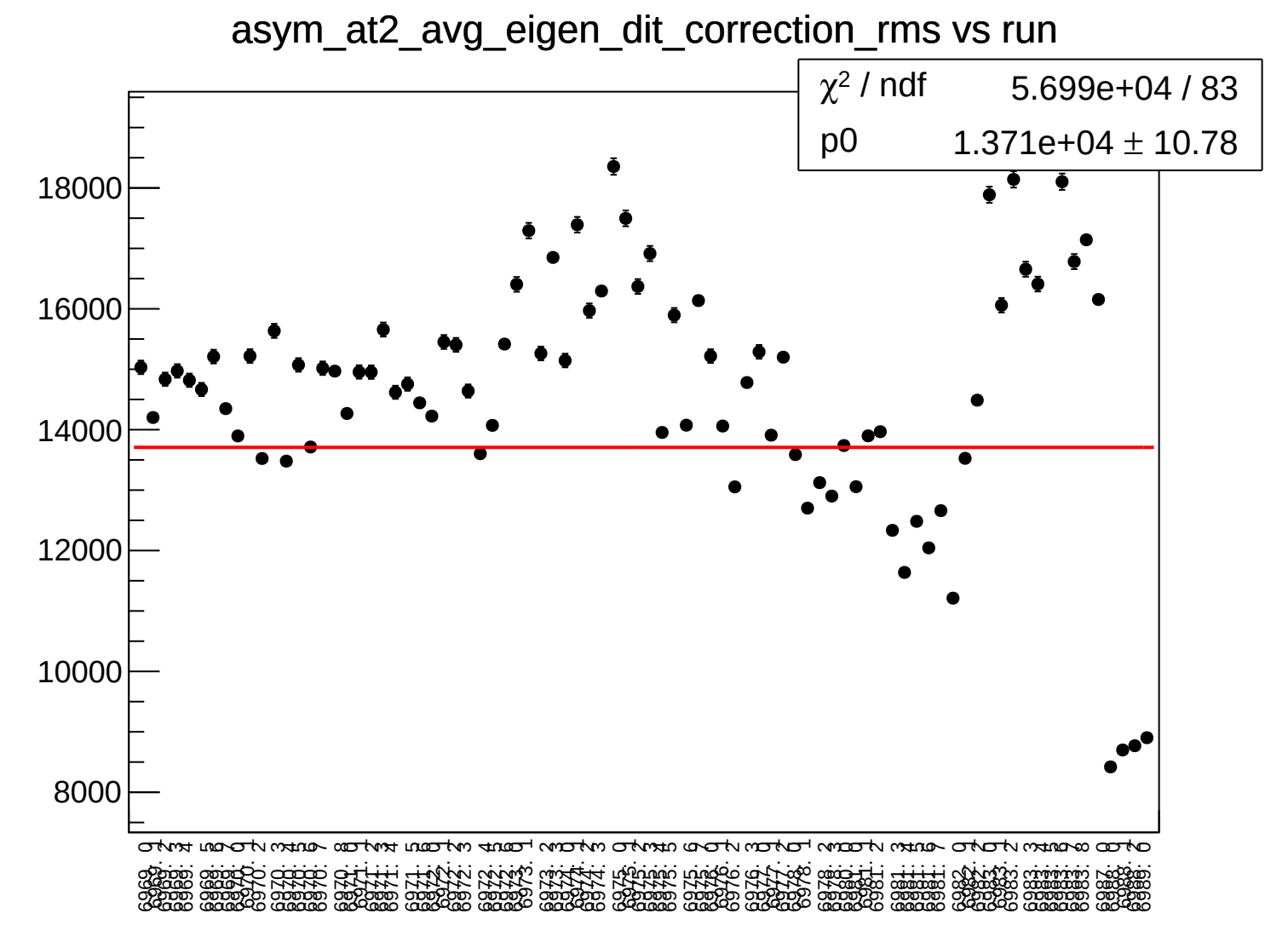

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 94.35 / 83
p0 −1557 ± 2260
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −801.4
Std Dev 0
3
2
1
0
−1
−2

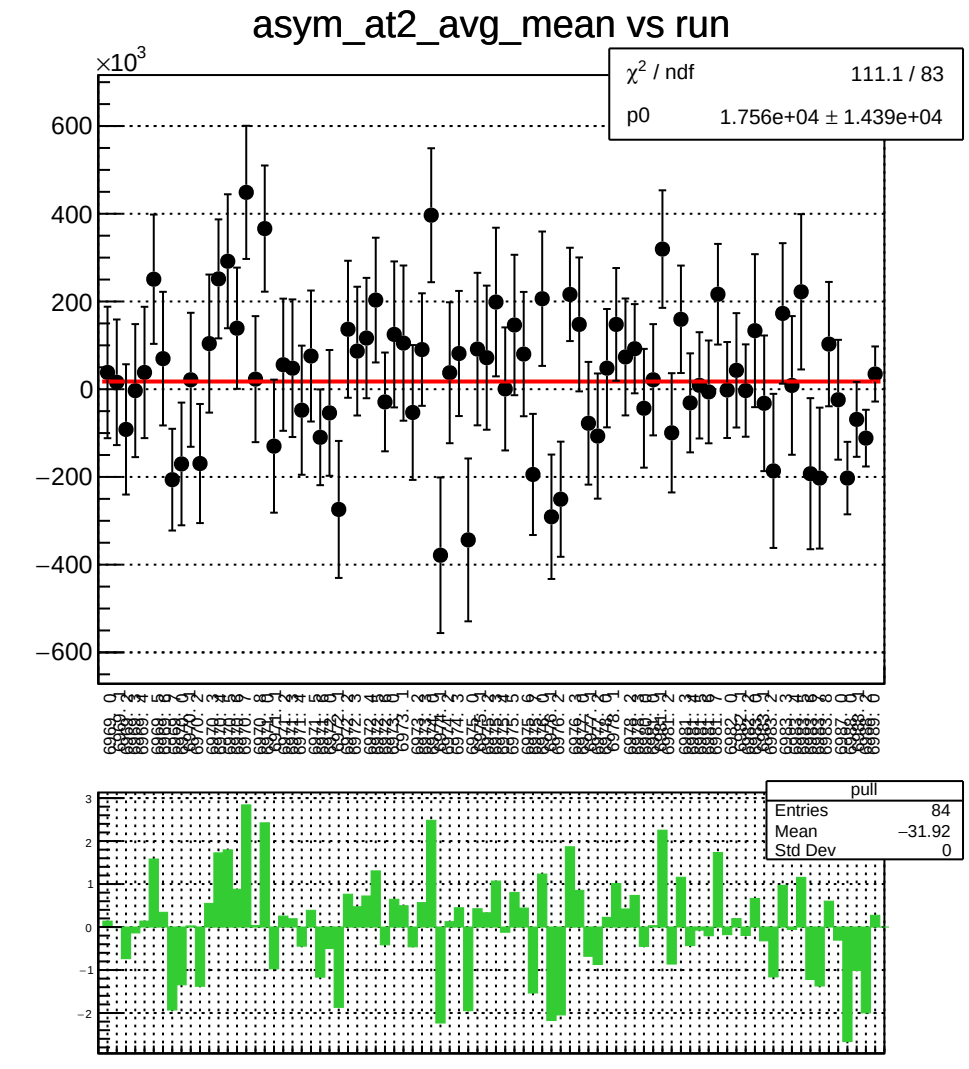

pull1D
Entries 84
Mean −0.004768
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

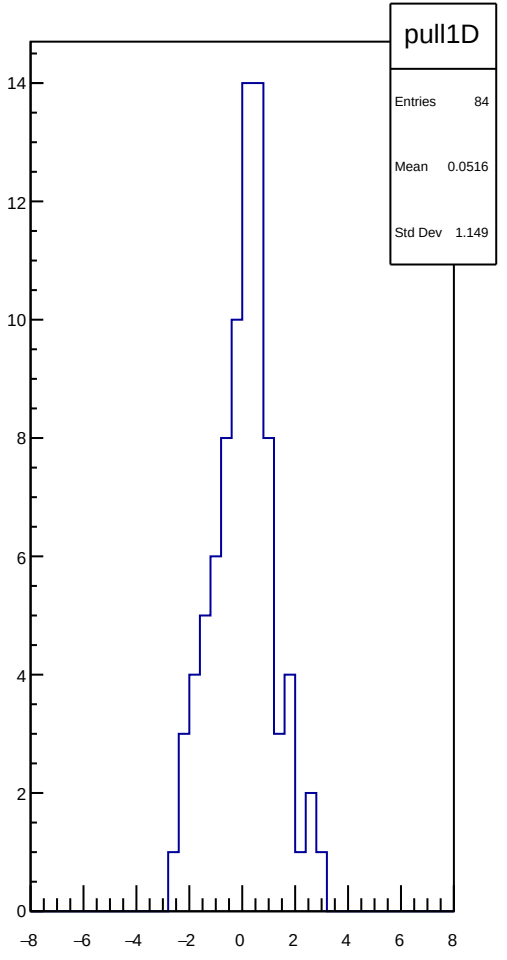

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 6574 / 83
p0 2063 ± 1.598
2600
2500
2400
2300
2200
2100
2000
1900

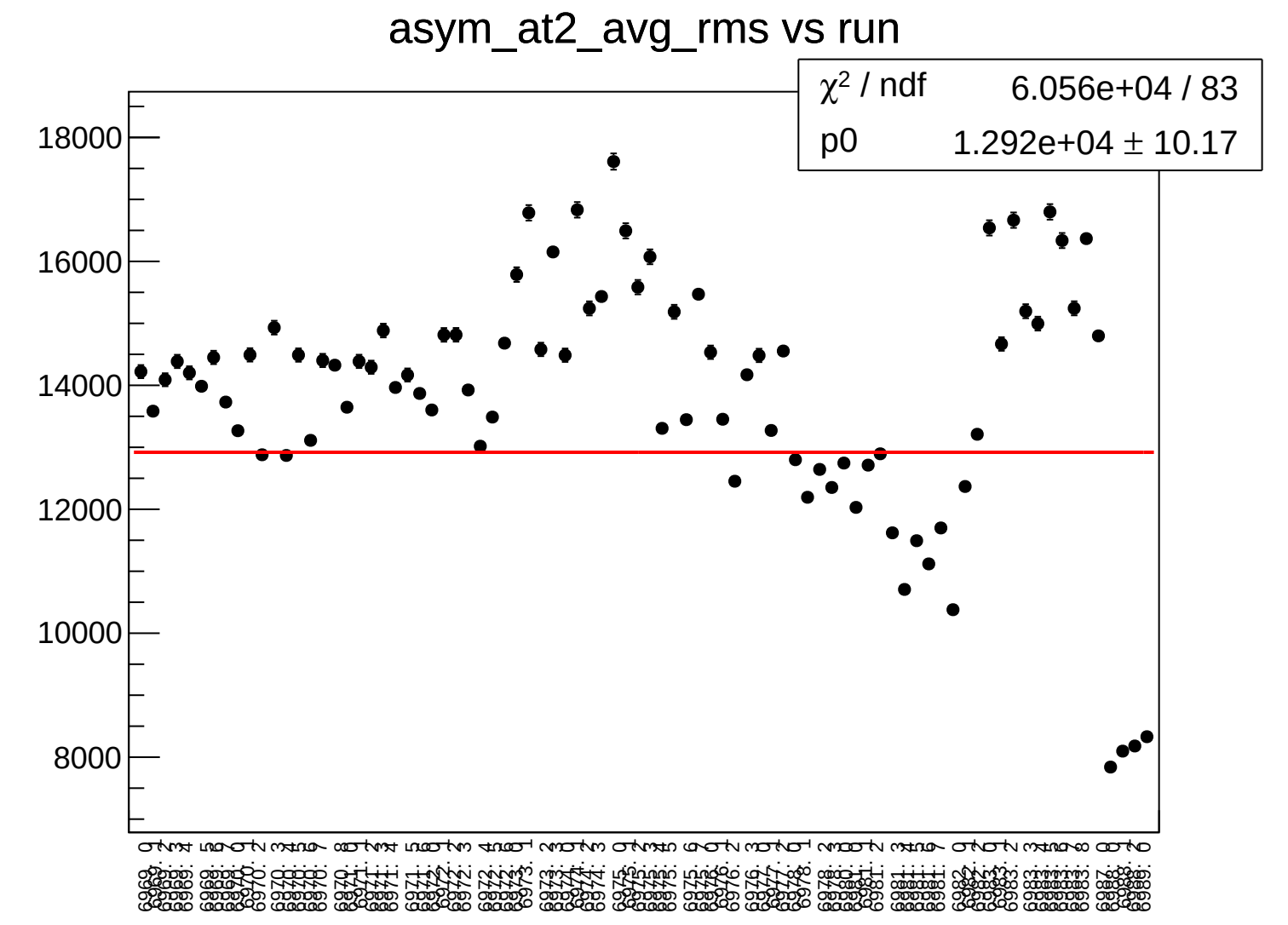

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 108.3 / 83
p0 −1.911e+04 ± 1.525e+04
pull
Entries 84
Mean −42.51
Std Dev 0

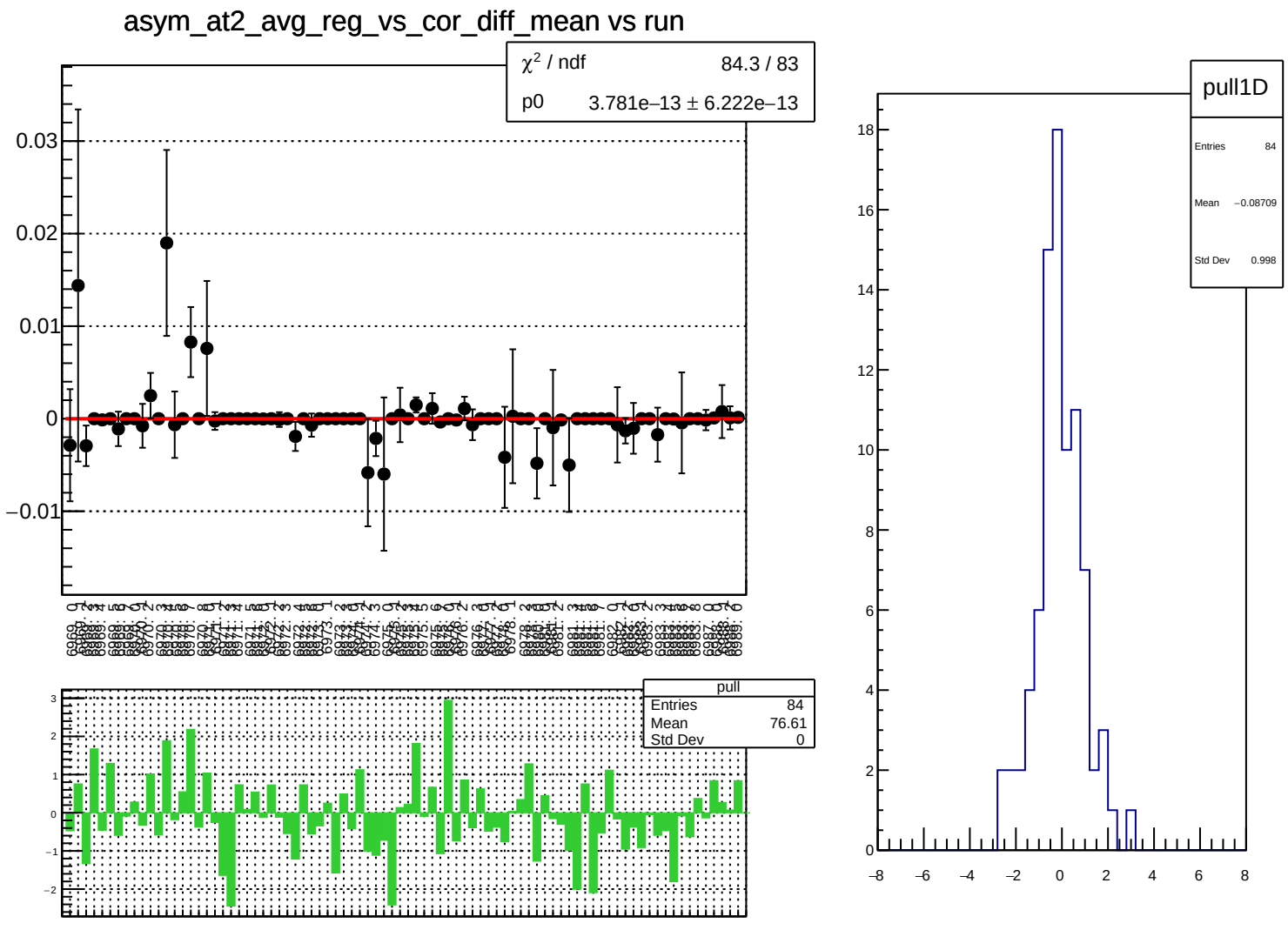

pull1D
Entries 84
Mean −0.04986
Std Dev 1.134

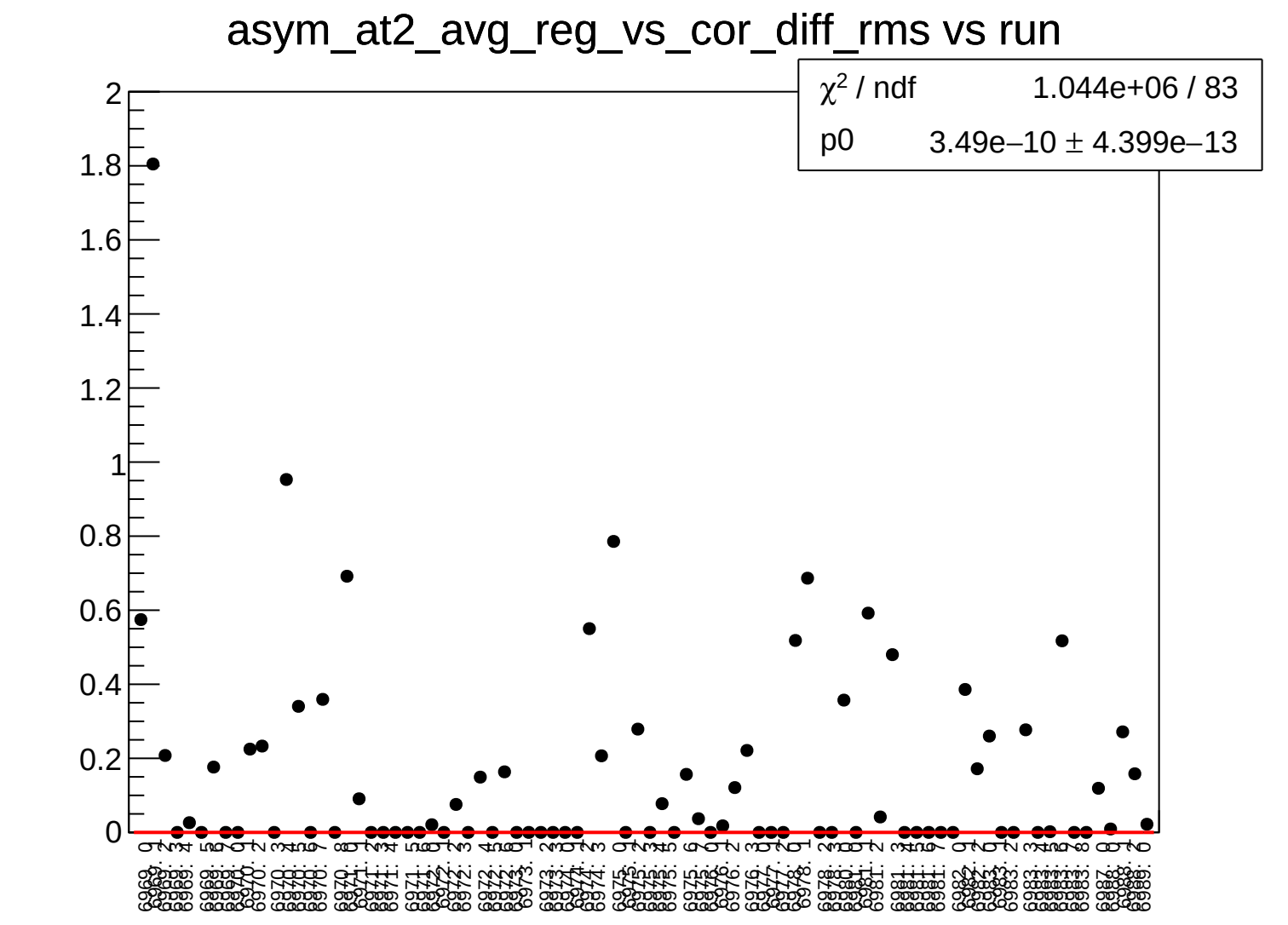

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.699e+04 / 83
p0 1.371e+04 ± 10.78
18000
16000
14000
12000
10000
8000

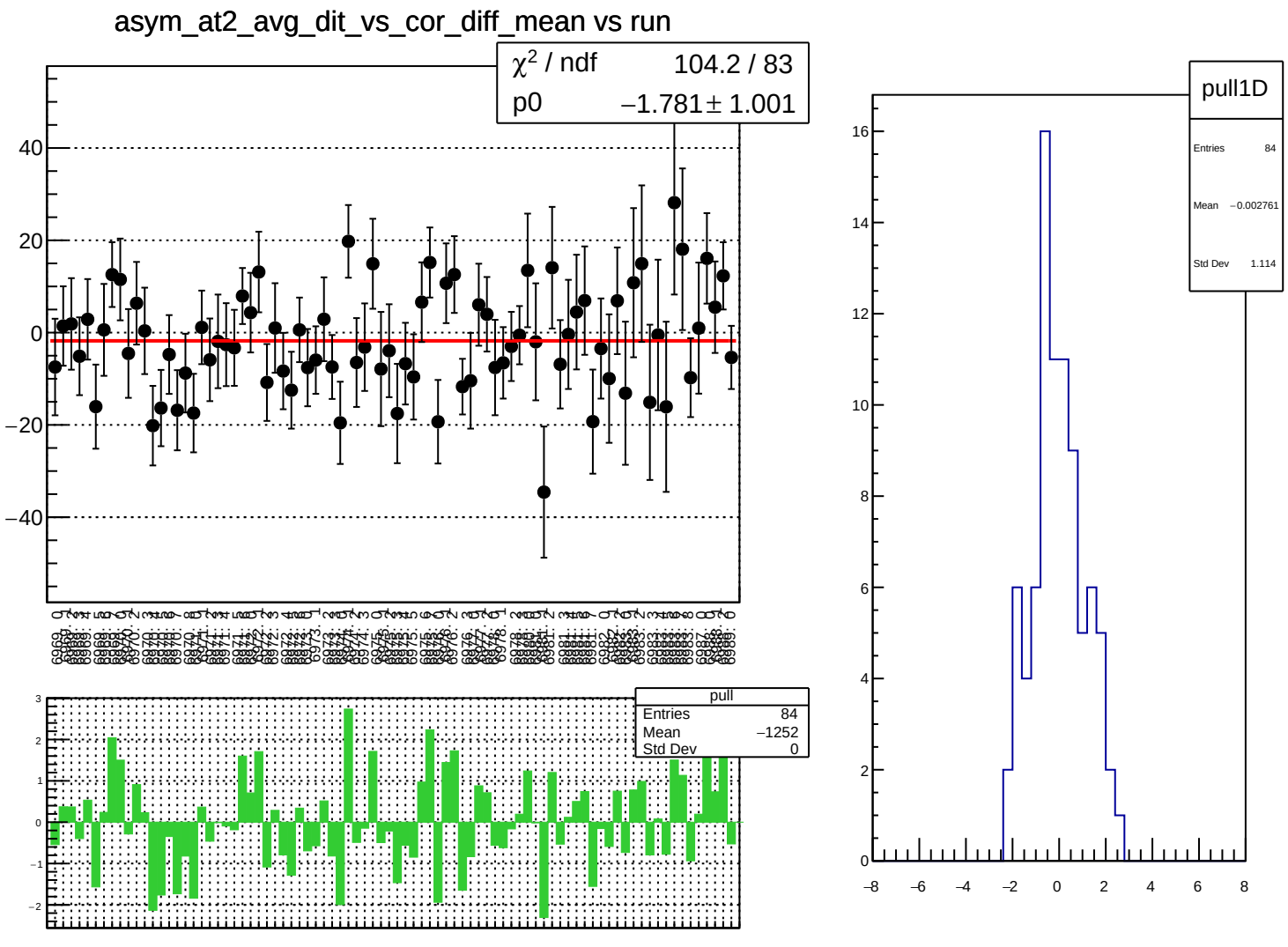

asym_at2_avg_mean vs run
×10^3
χ² / ndf 111.1 / 83
p0 1.756e+04 ± 1.439e+04
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean −31.92
Std Dev 0
3
2
1
0
−1
−2

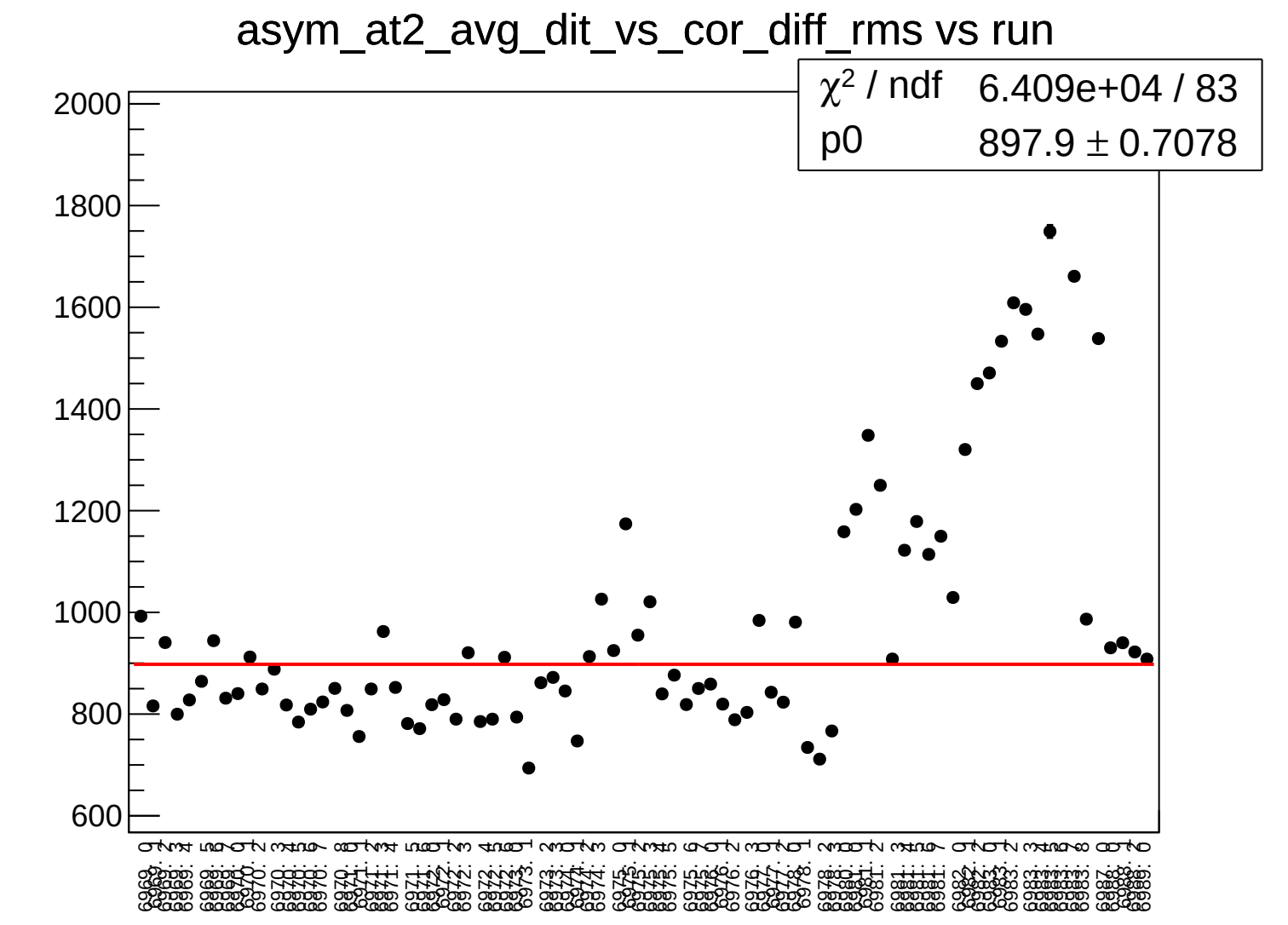

pull1D
Entries 84
Mean 0.0516
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

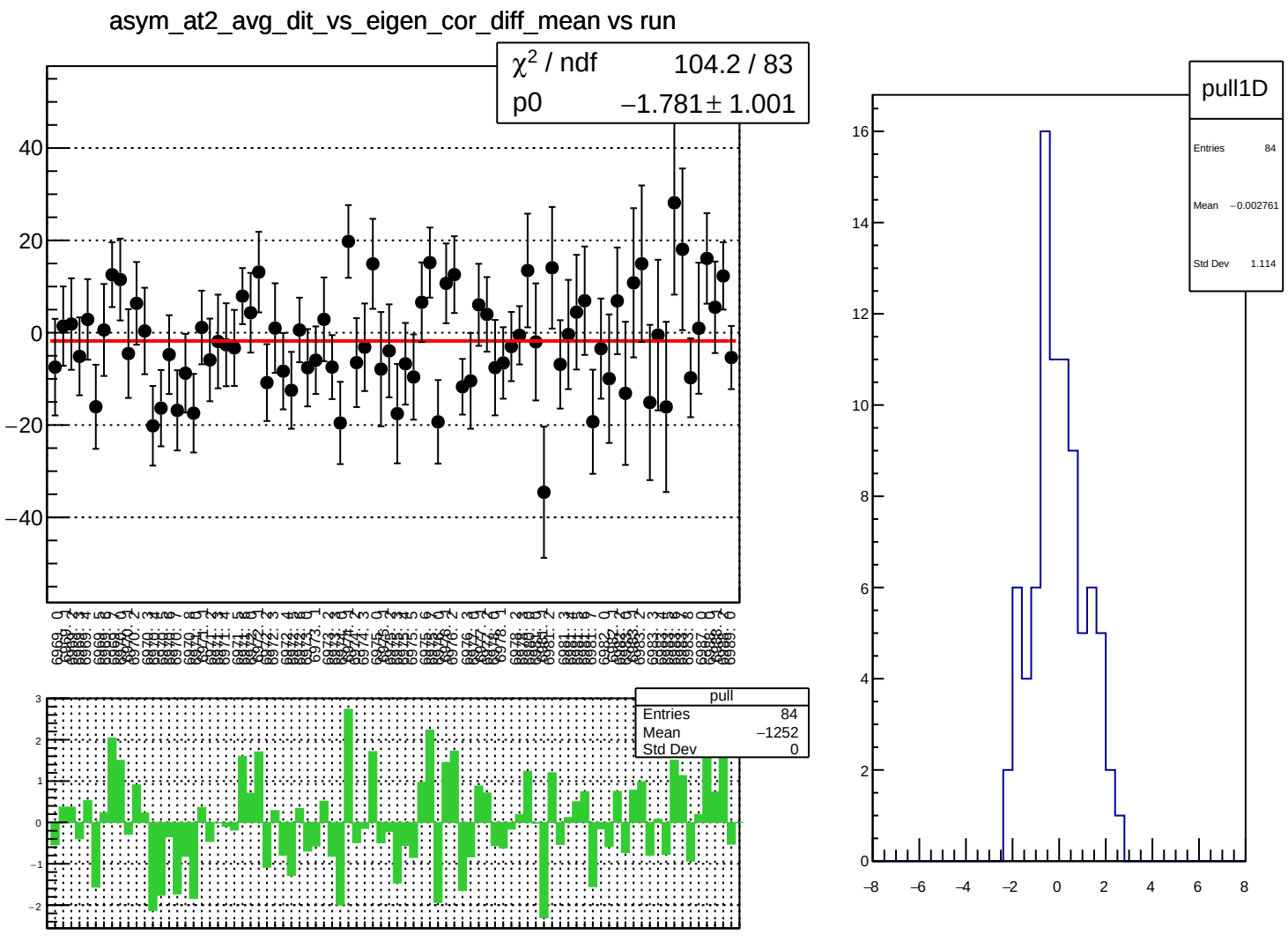

asym_at2_avg_rms vs run
χ² / ndf 6.056e+04 / 83
p0 1.292e+04 ± 10.17
18000
16000
14000
12000
10000
8000

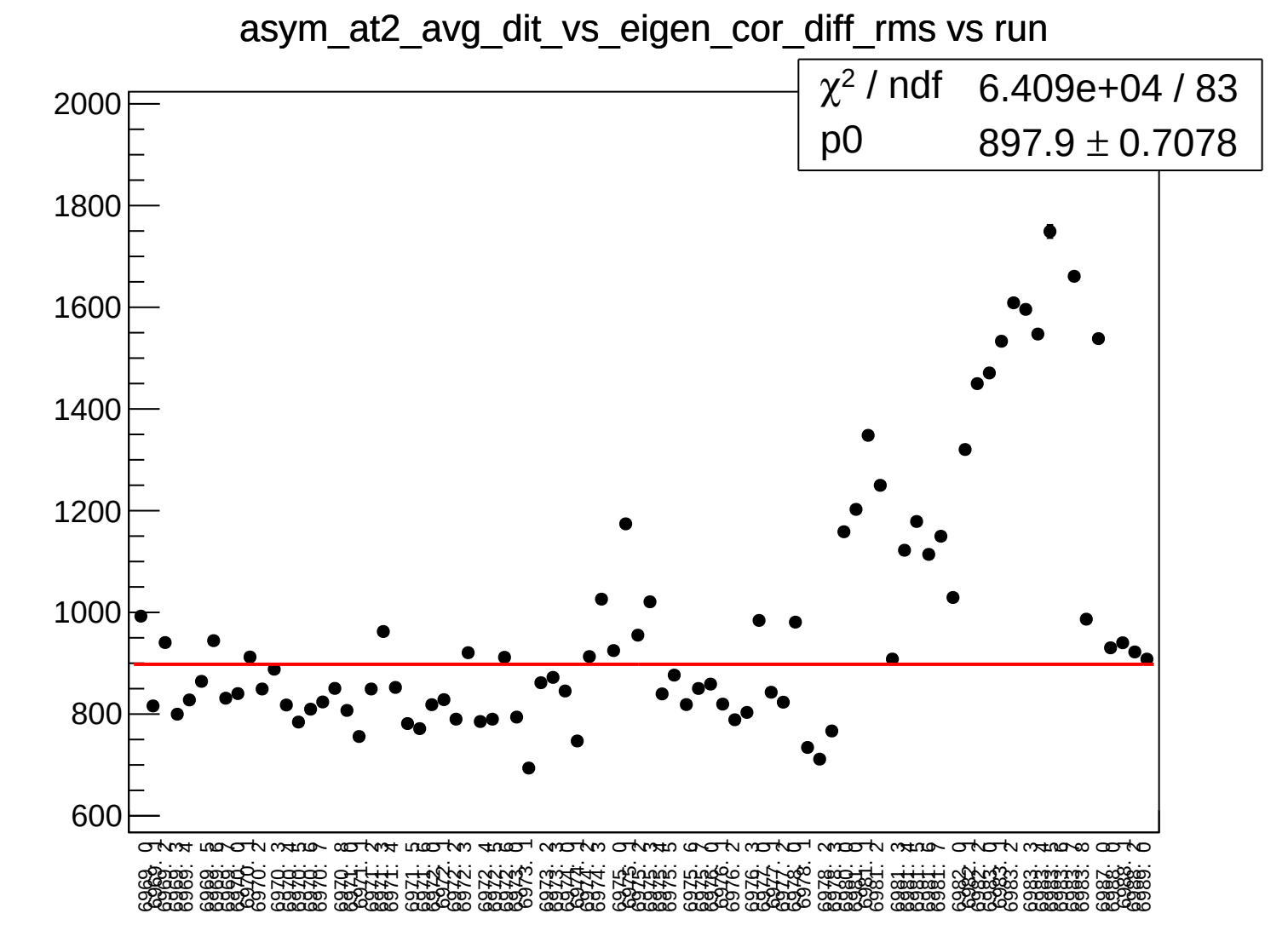

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.3 / 83
p0 3.781e−13 ± 6.222e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 84
Mean 76.61
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.08709
Std Dev 0.998
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

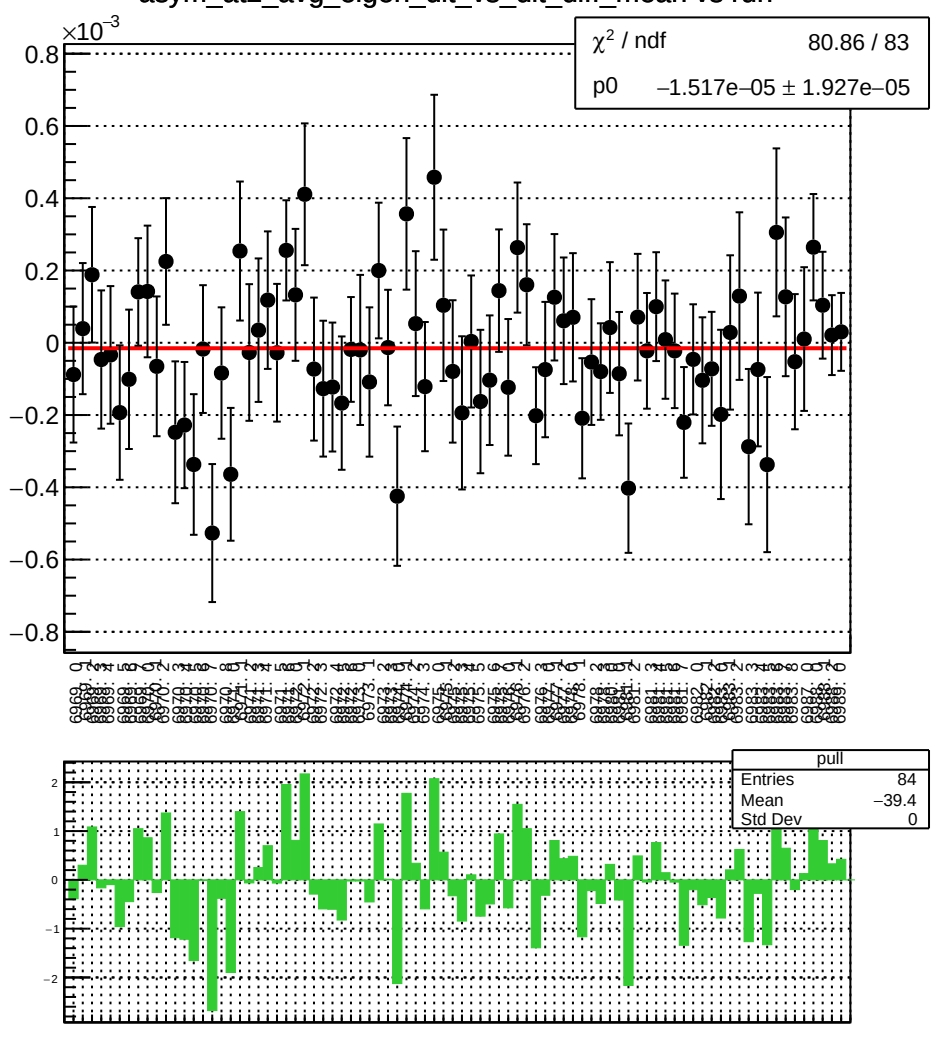

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.044e+06 / 83
p0 3.49e−10 ± 4.399e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

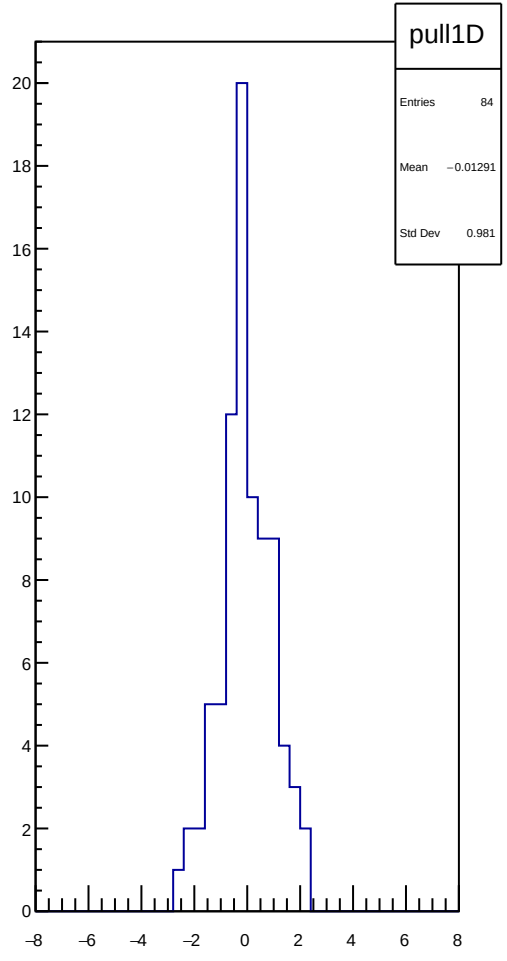

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 83
p0 −1.781 ± 1.001
pull
Entries 84
Mean −1252
Std Dev 0
pull1D
Entries 84
Mean −0.002761
Std Dev 1.114

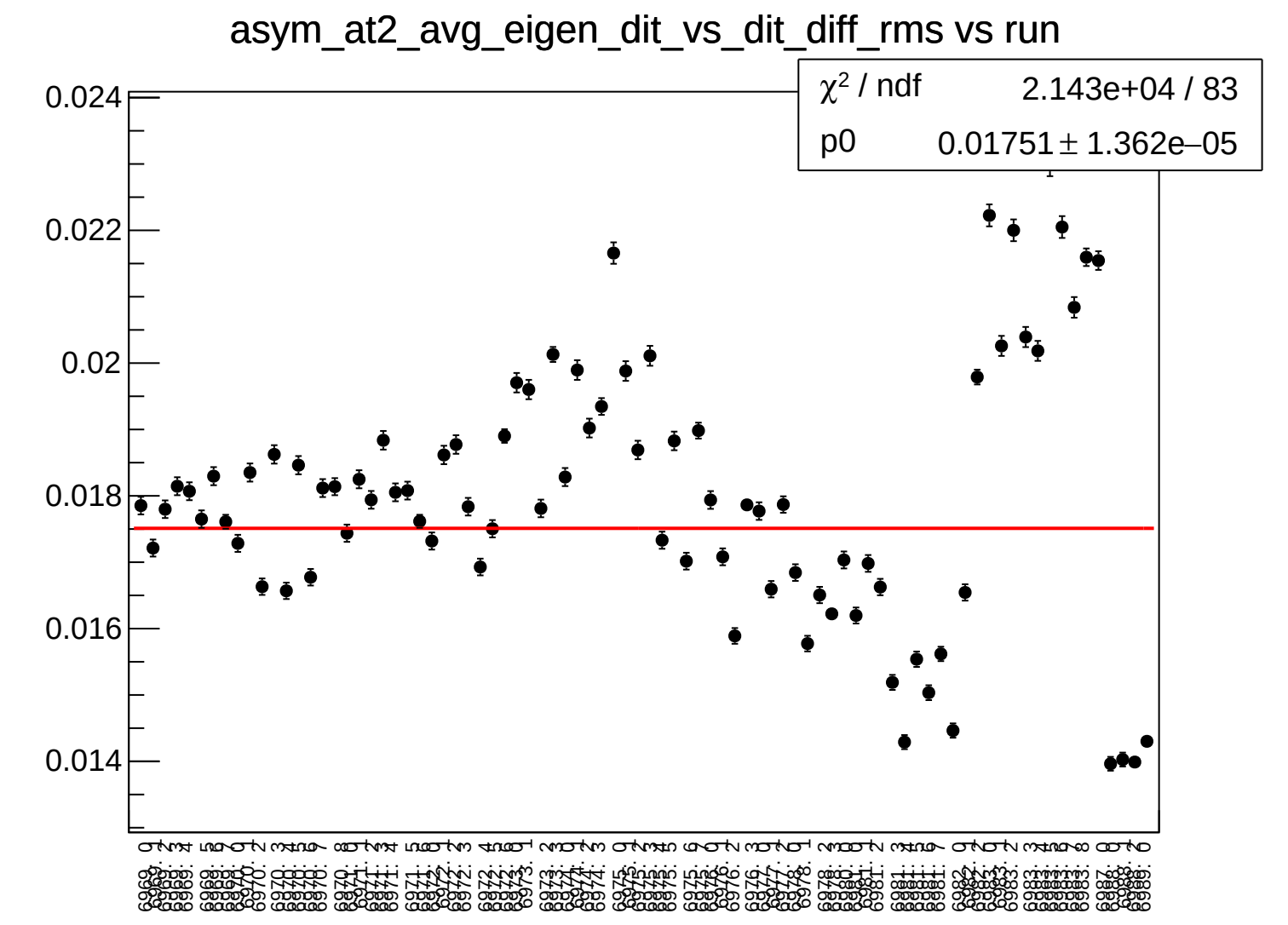

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.409e+04 / 83
p0 897.9 ± 0.7078
2000
1800
1600
1400
1200
1000
800
600

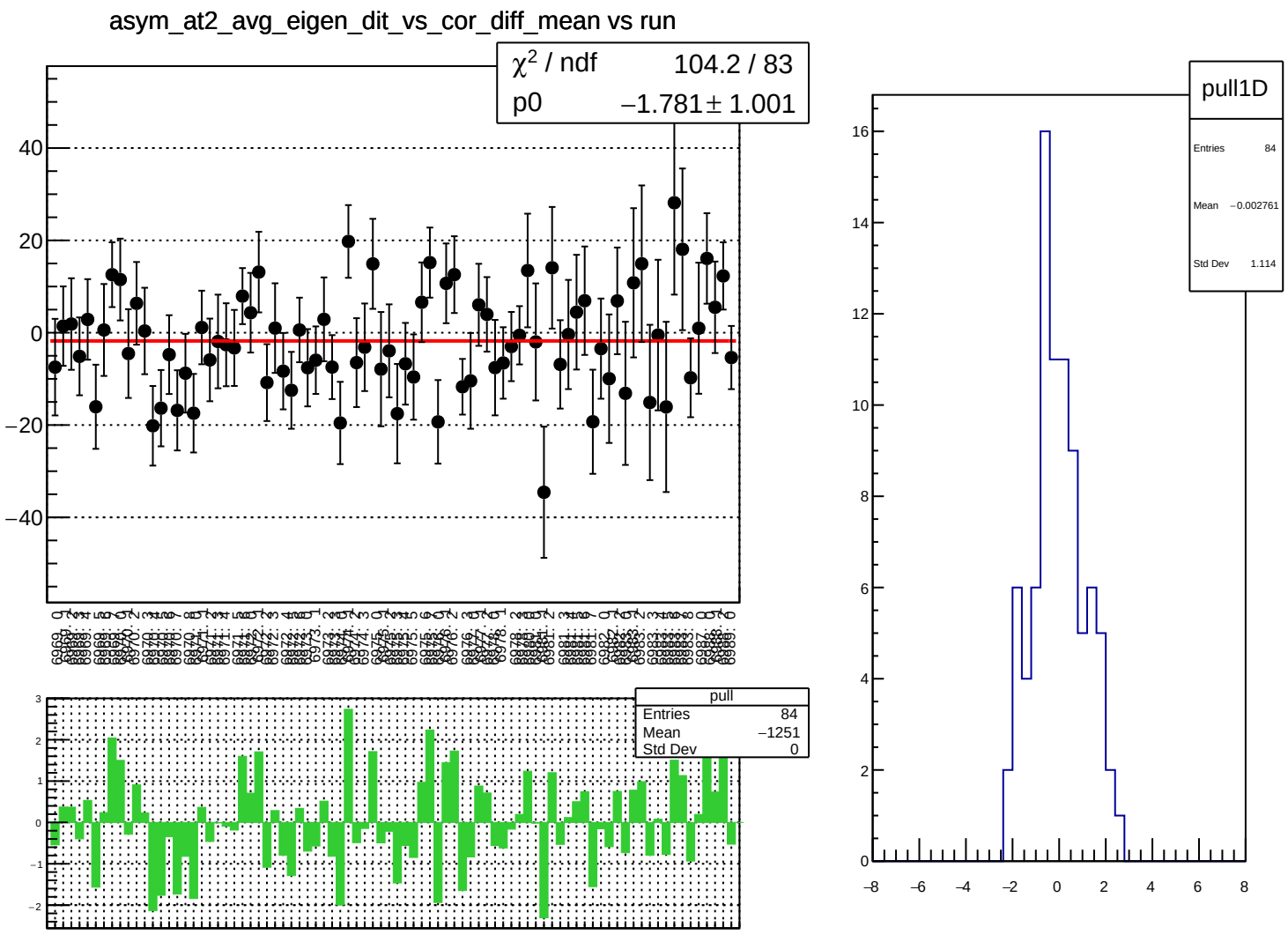

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 83
p0 −1.781 ± 1.001
pull
Entries 84
Mean −1252
Std Dev 0
pull1D
Entries 84
Mean −0.002761
Std Dev 1.114

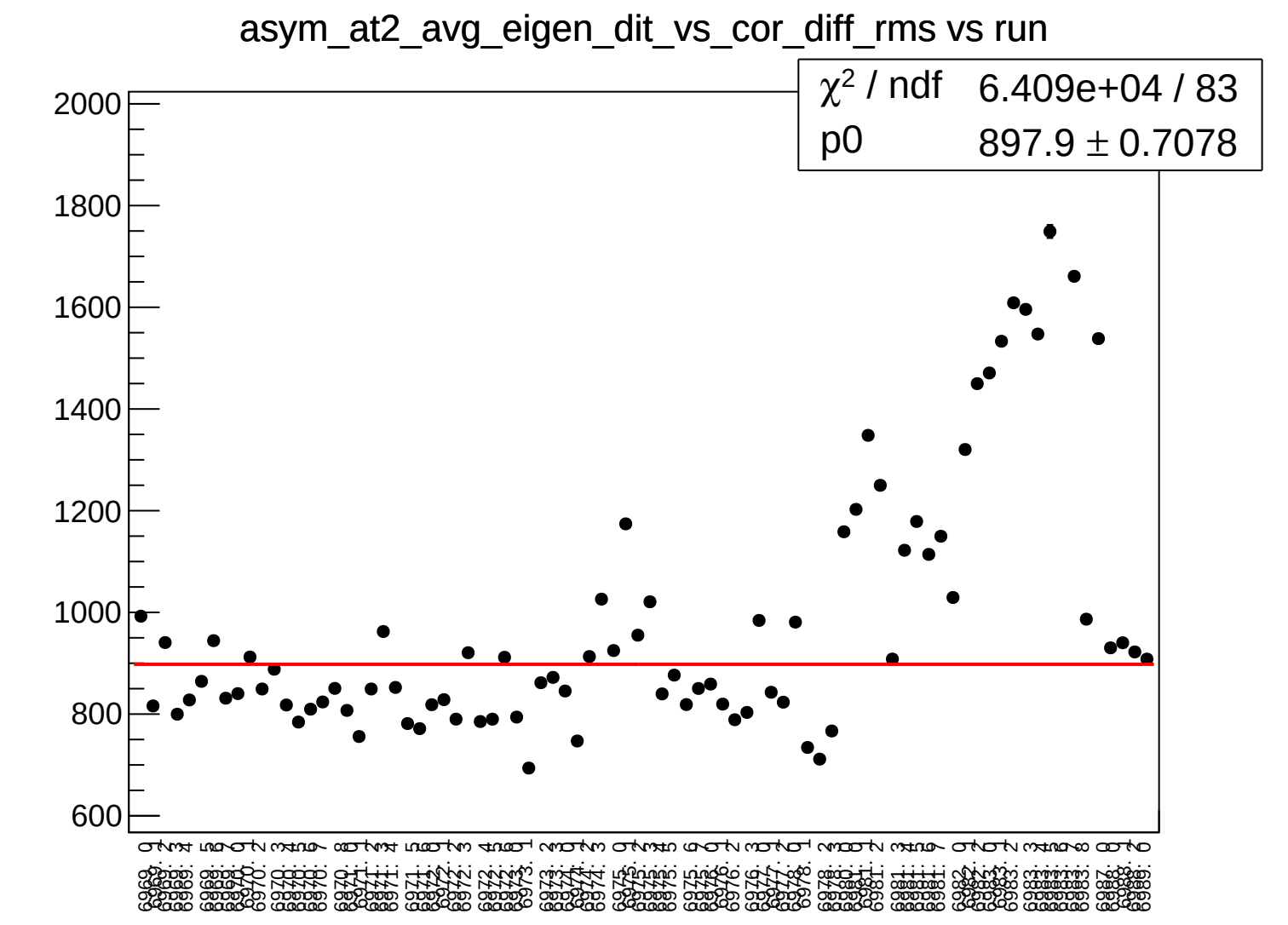

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.409e+04 / 83
p0 897.9 ± 0.7078
2000
1800
1600
1400
1200
1000
800
600

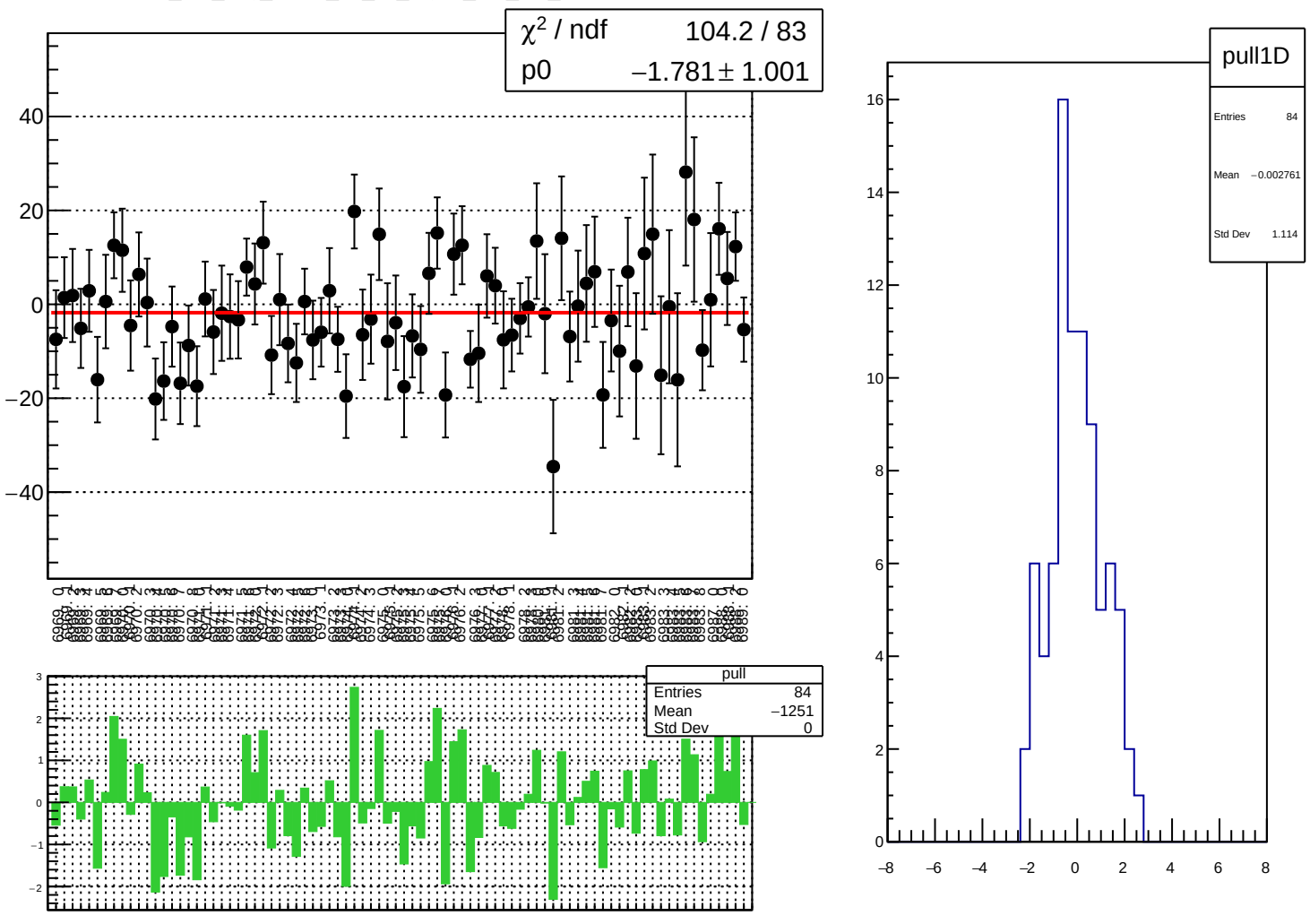

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.86 / 83
p0 −1.517e−05 ± 1.927e−05
pull
Entries 84
Mean −39.4
Std Dev 0

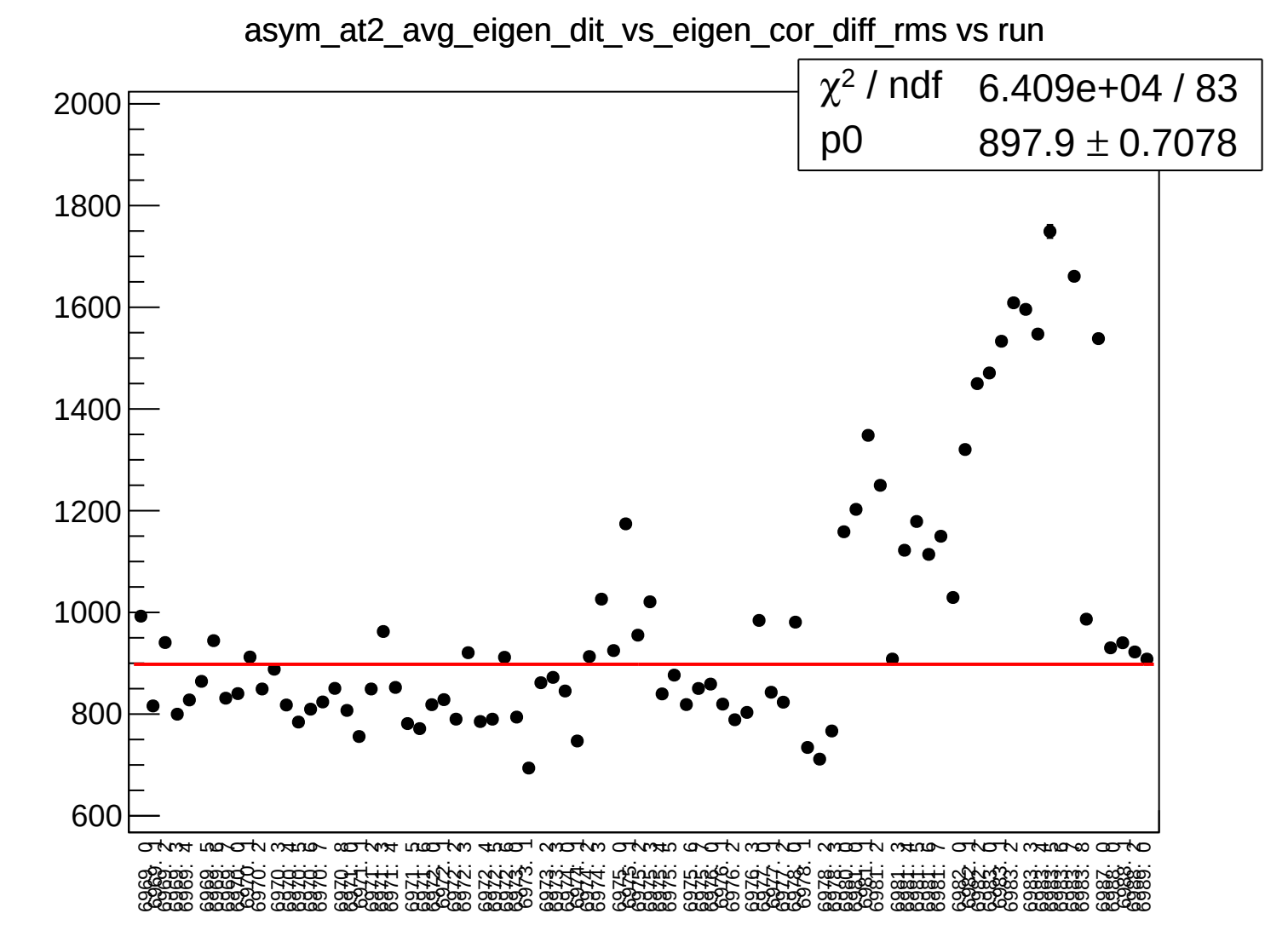

pull1D
Entries 84
Mean −0.01291
Std Dev 0.981

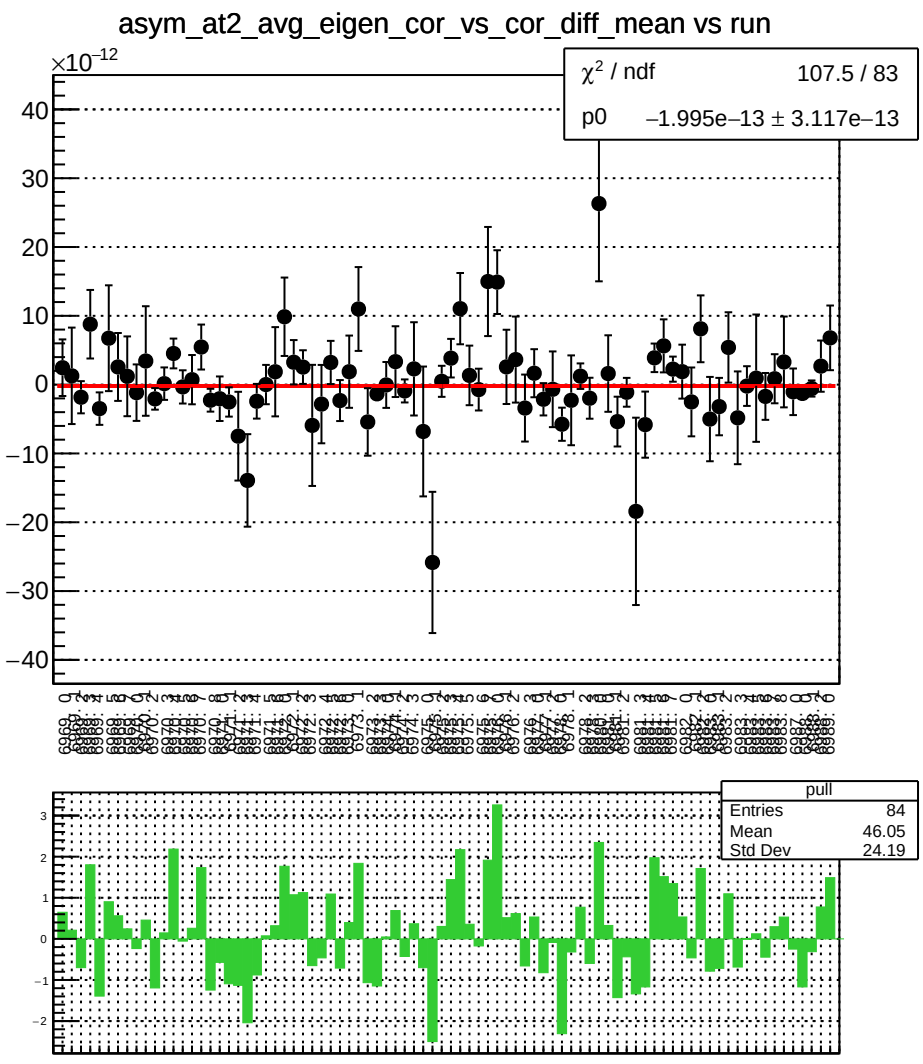

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.143e+04 / 83
p0 0.01751 ± 1.362e–05
0.024
0.022
0.02
0.018
0.016
0.014

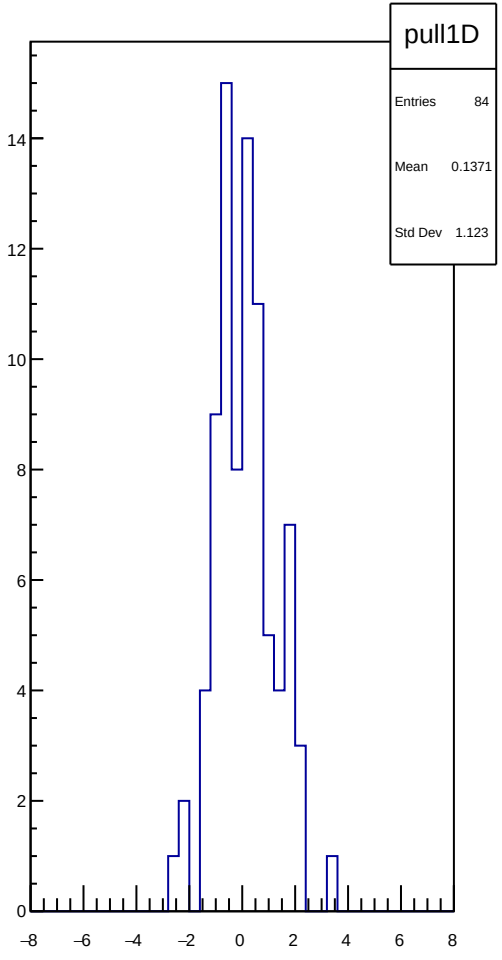

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 83
p0 −1.781 ± 1.001
pull
Entries 84
Mean −1251
Std Dev 0
pull1D
Entries 84
Mean −0.002761
Std Dev 1.114

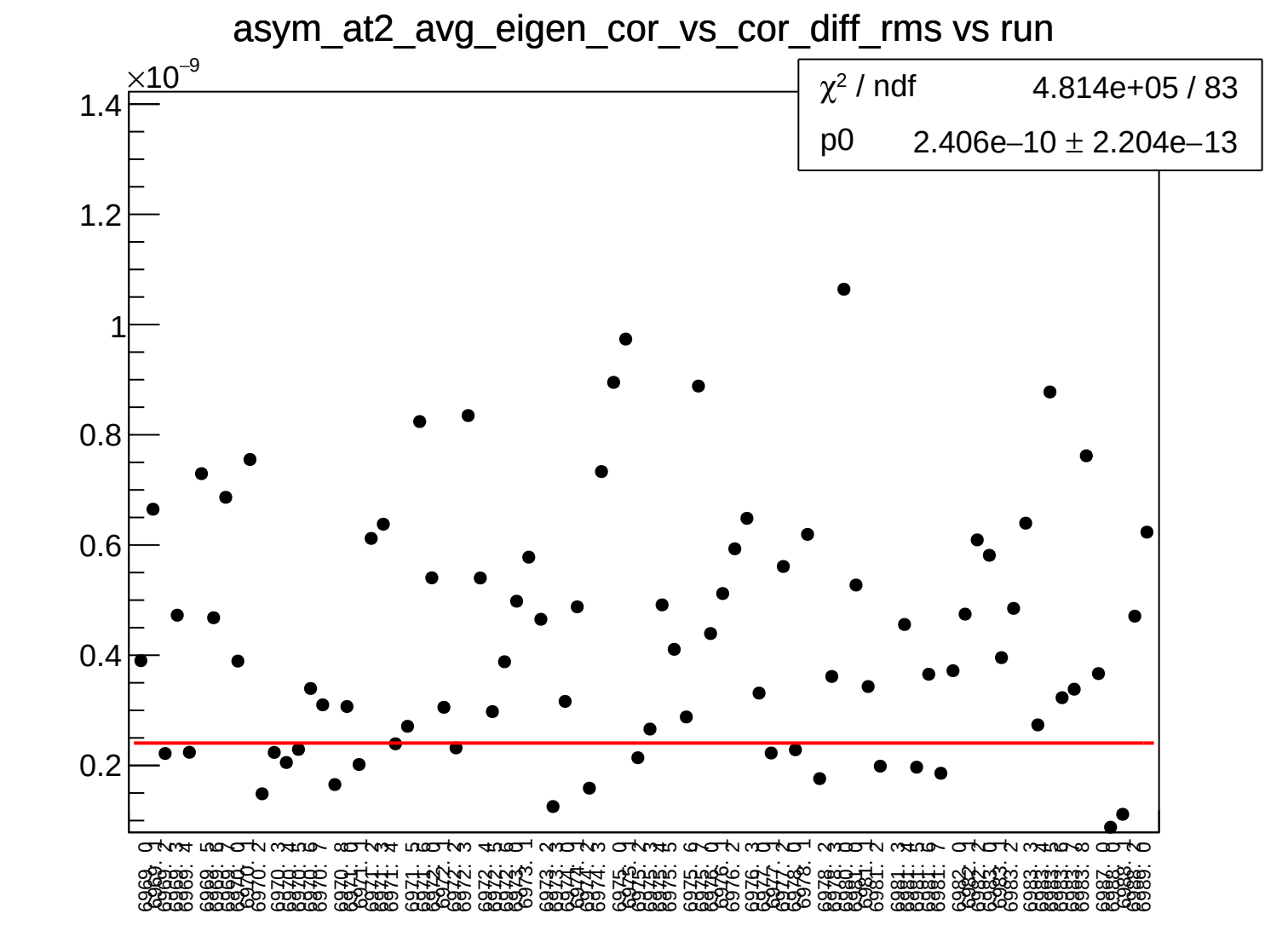

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.409e+04 / 83
p0 897.9 ± 0.7078
2000
1800
1600
1400
1200
1000
800
600

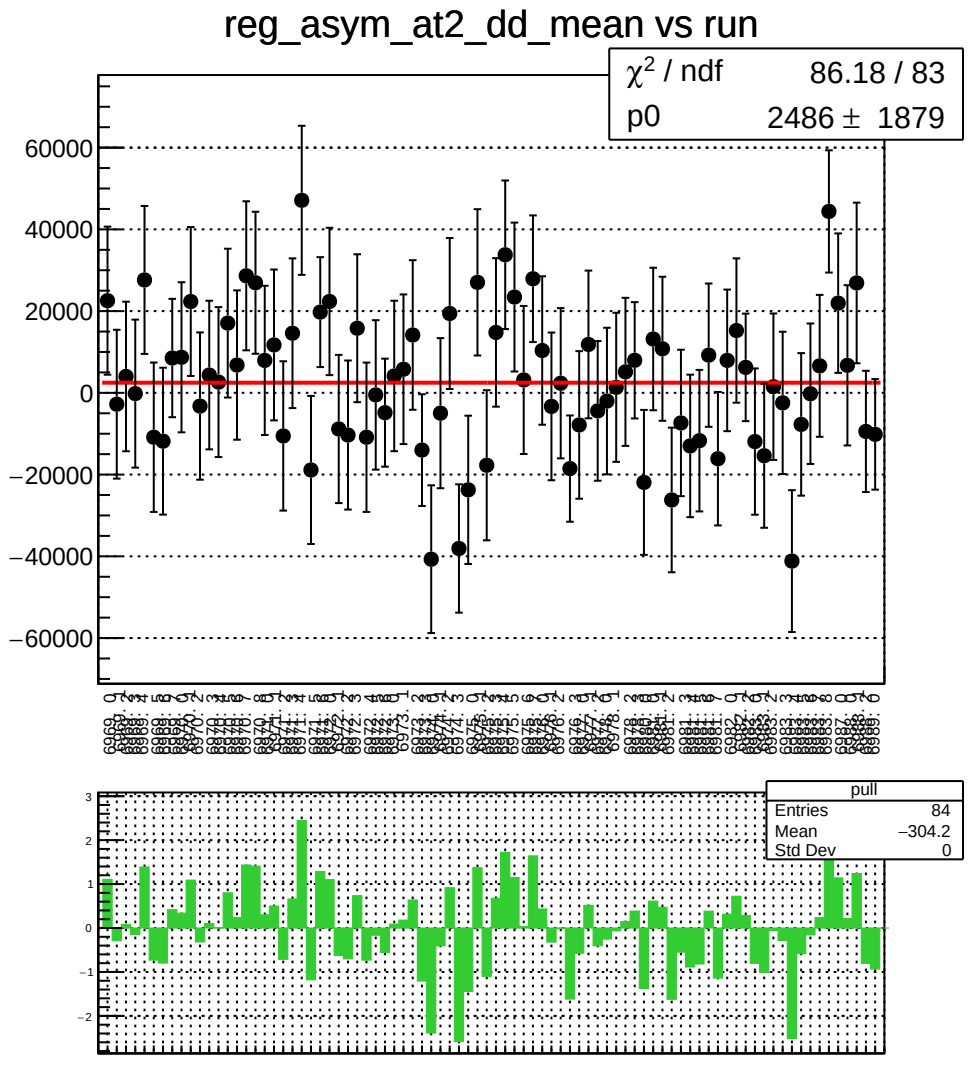

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 83
p0 −1.781 ± 1.001
pull
Entries 84
Mean −1251
Std Dev 0
pull1D
Entries 84
Mean −0.002761
Std Dev 1.114

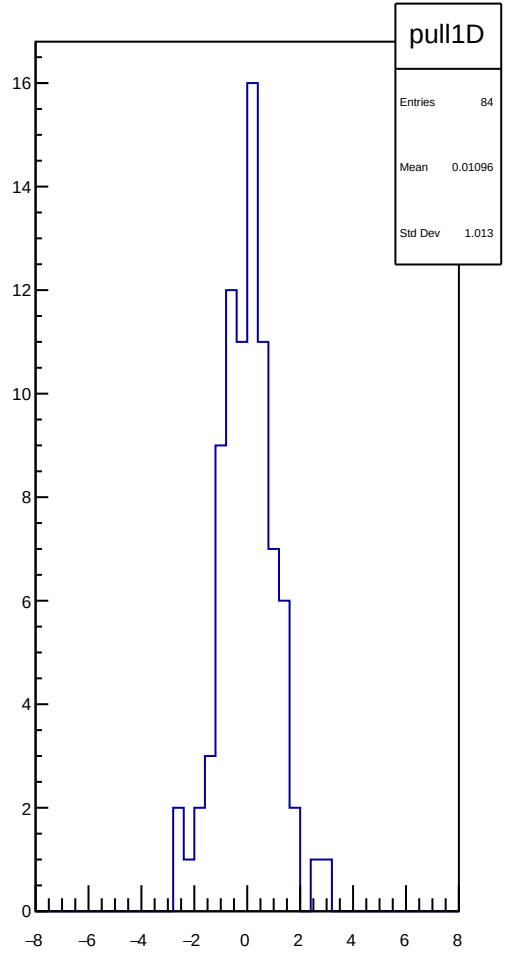

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.409e+04 / 83
p0 897.9 ± 0.7078
2000
1800
1600
1400
1200
1000
800
600

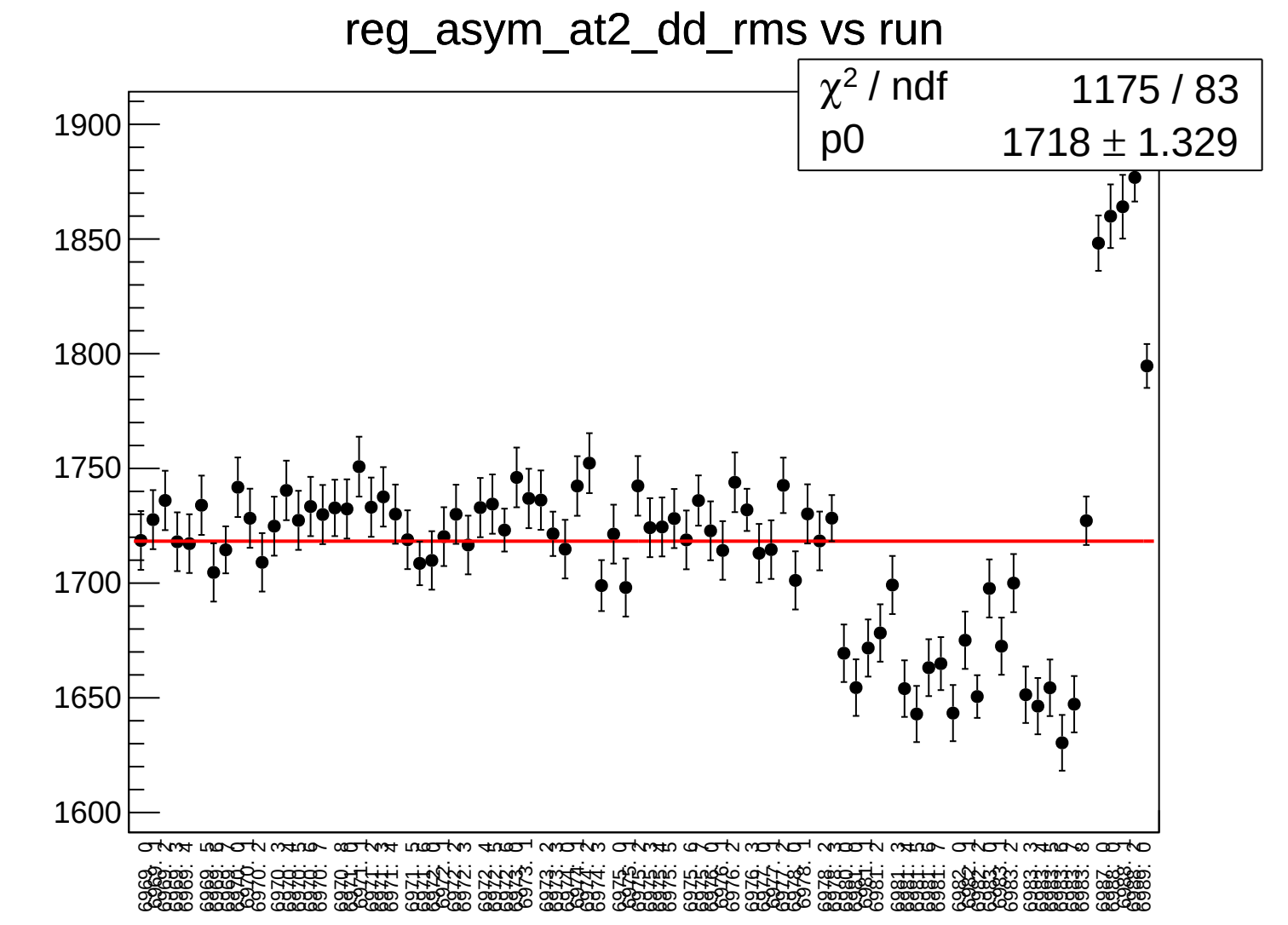

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.5 / 83
p0 −1.995e−13 ± 3.117e−13
pull
Entries 84
Mean 46.05
Std Dev 24.19

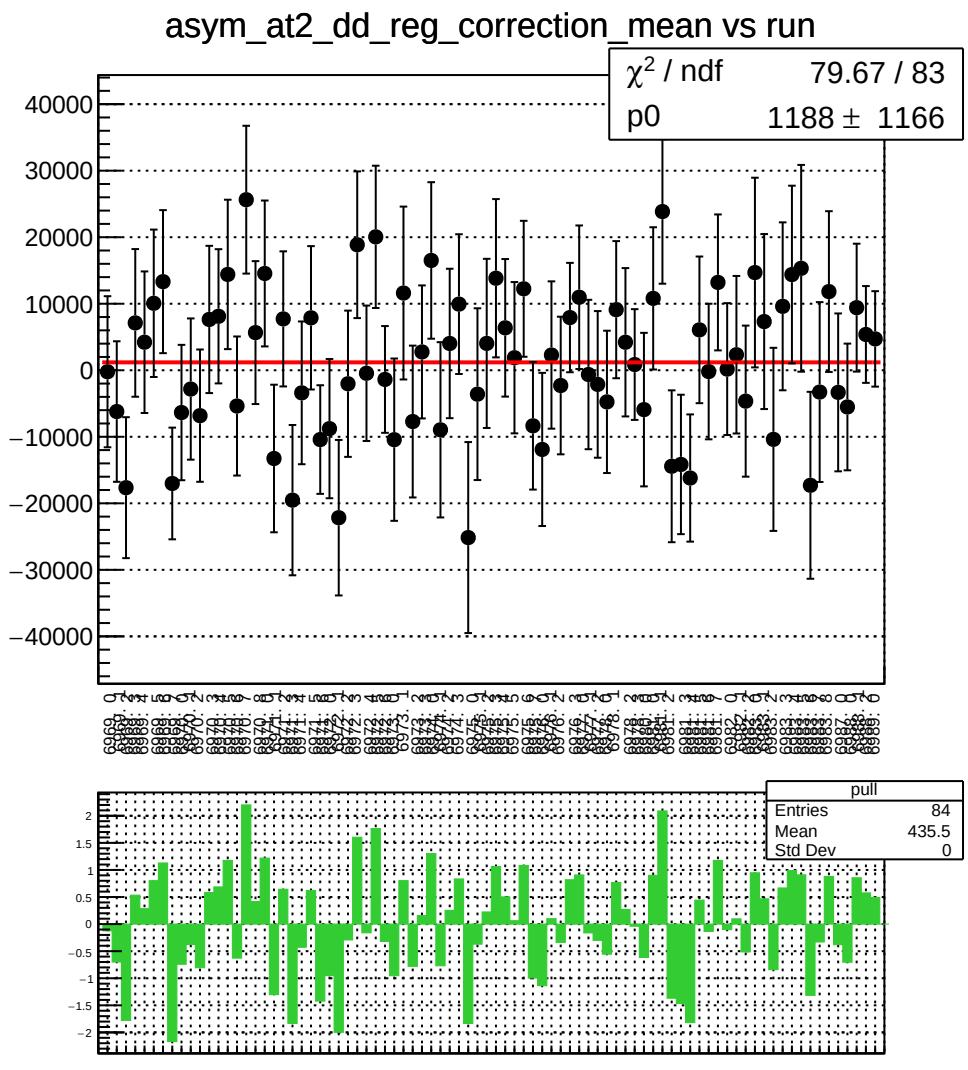

pull1D
Entries 84
Mean 0.1371
Std Dev 1.123

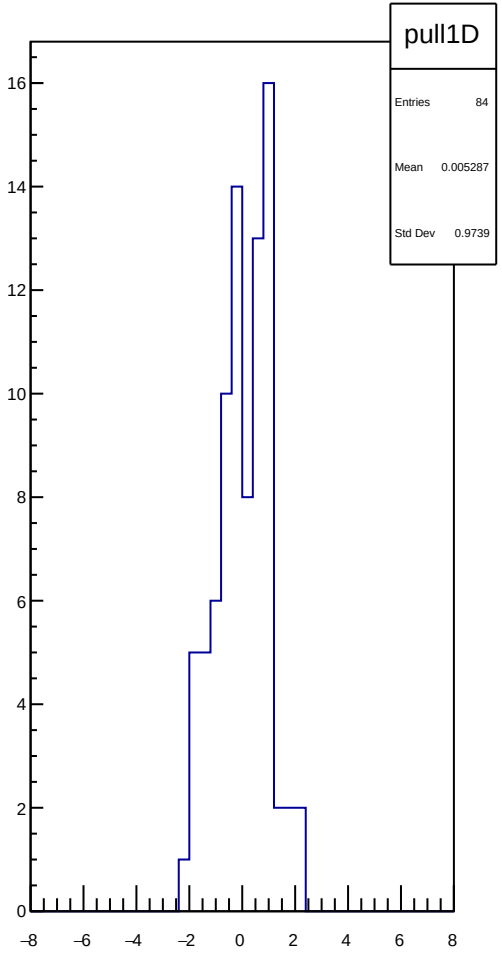

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.814e+05 / 83
p0 2.406e−10 ± 2.204e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

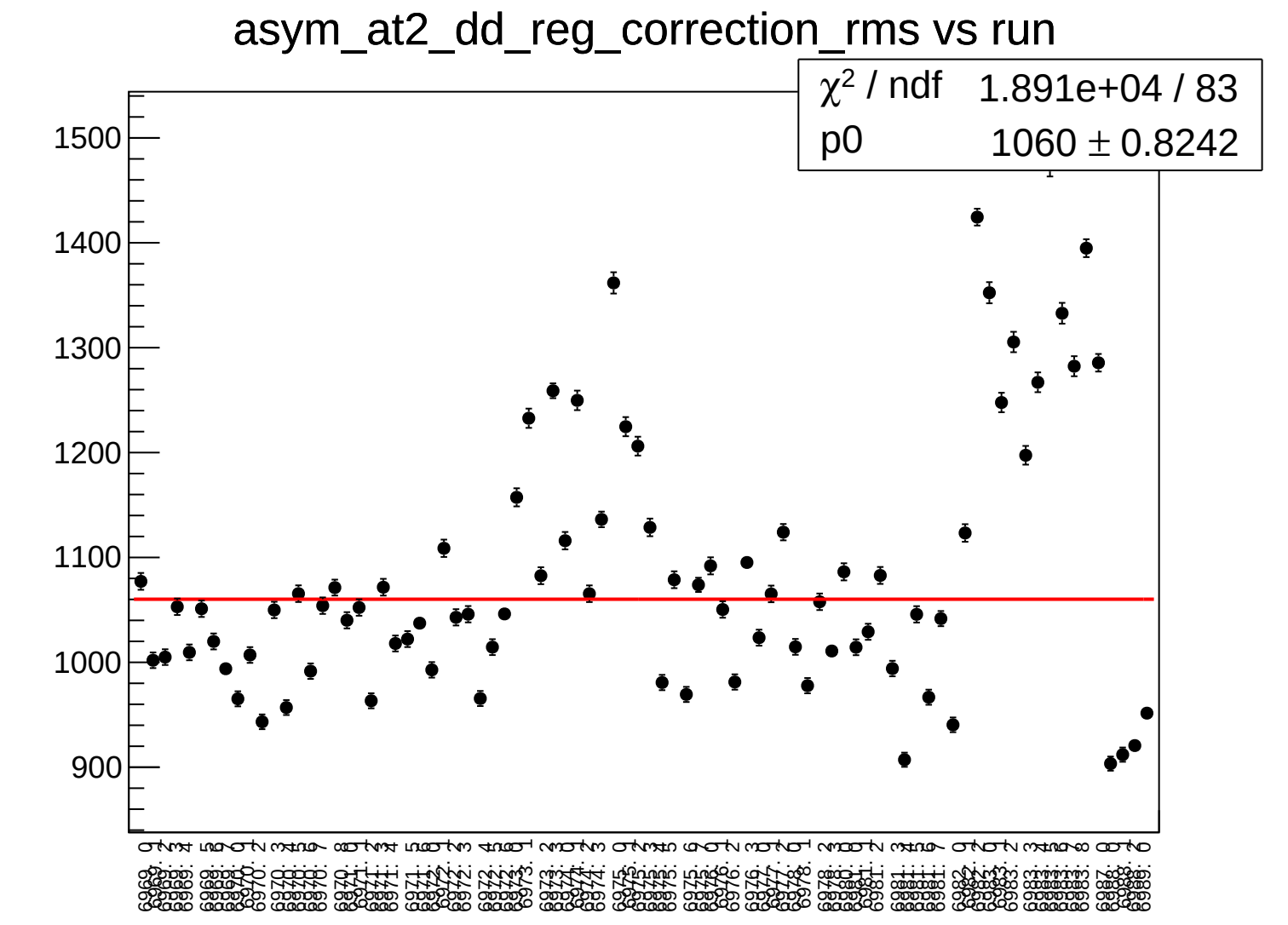

reg_asym_at2_dd_mean vs run
χ² / ndf 86.18 / 83
p0 2486 ± 1879
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −304.2
Std Dev 0
3
2
1
0
−1
−2

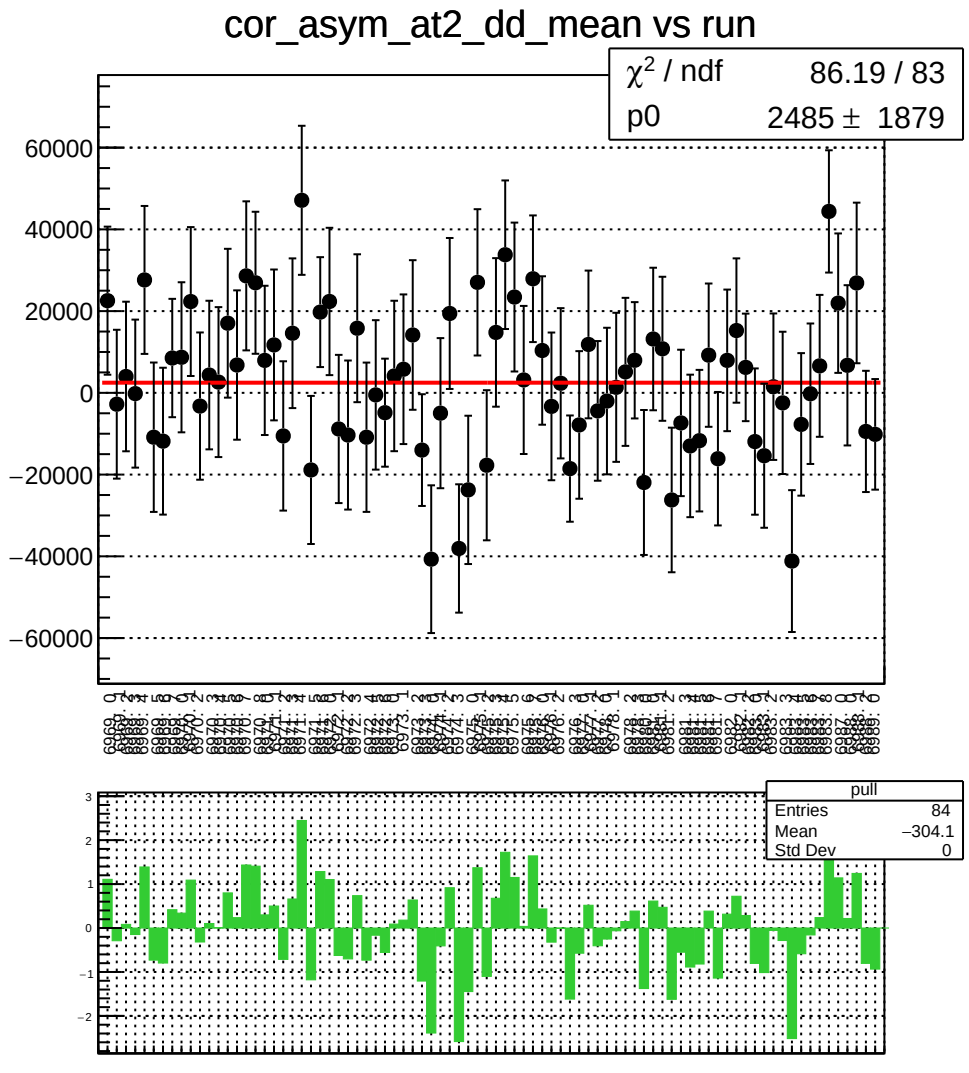

pull1D
Entries 84
Mean 0.01096
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

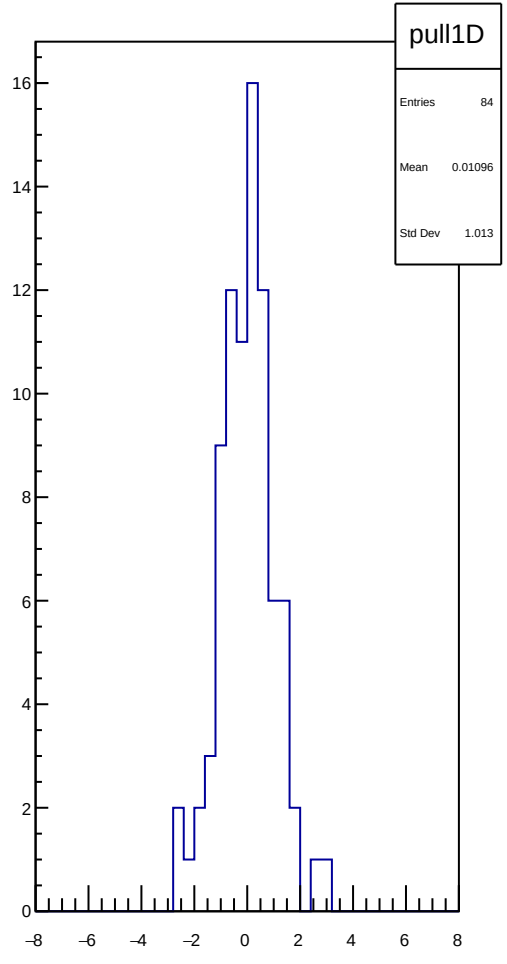

reg_asym_at2_dd_rms vs run
χ² / ndf 1175 / 83
p0 1718 ± 1.329
1900
1850
1800
1750
1700
1650
1600

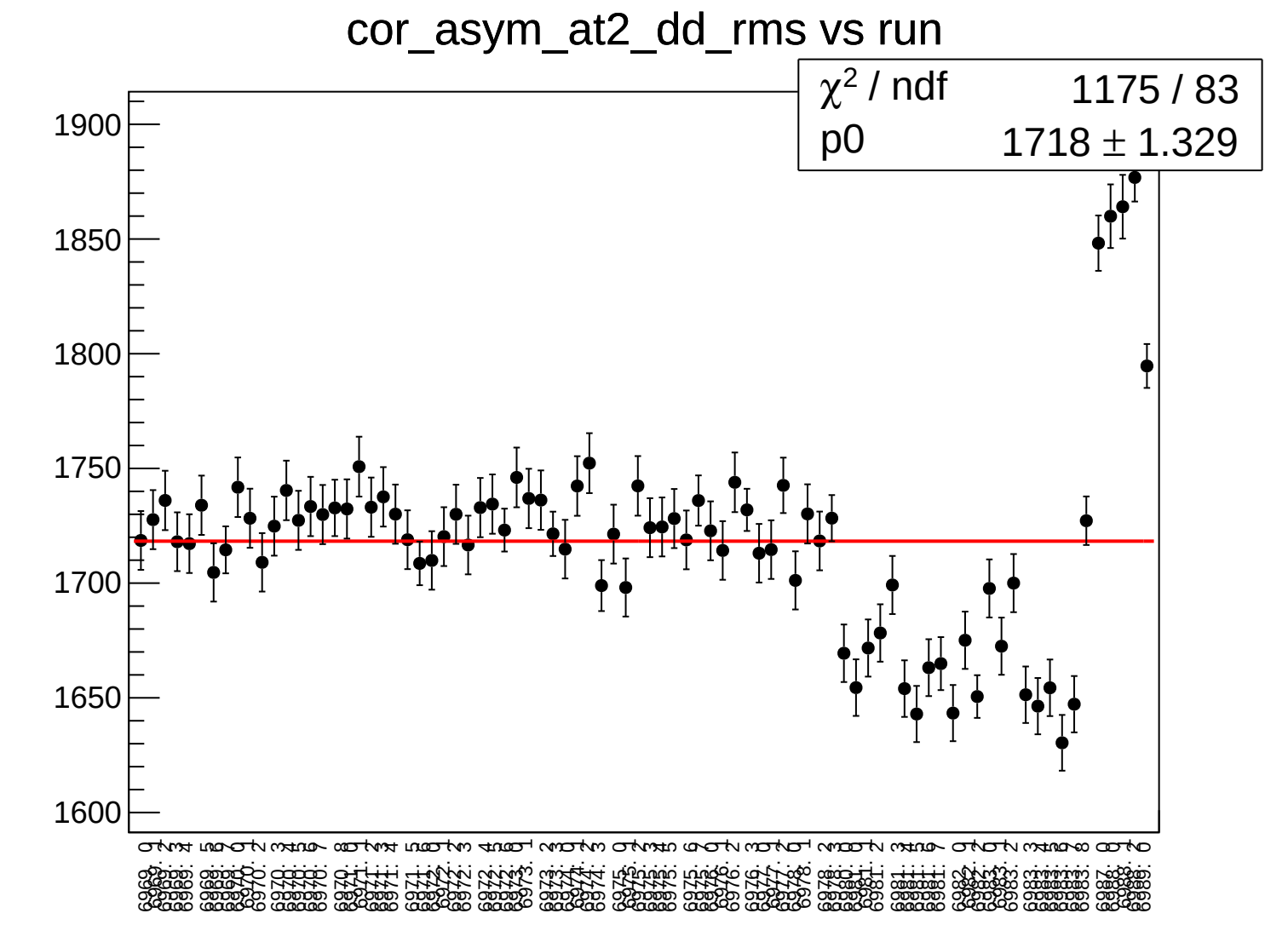

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 79.67 / 83
p0 1188 ± 1166
pull
Entries 84
Mean 435.5
Std Dev 0

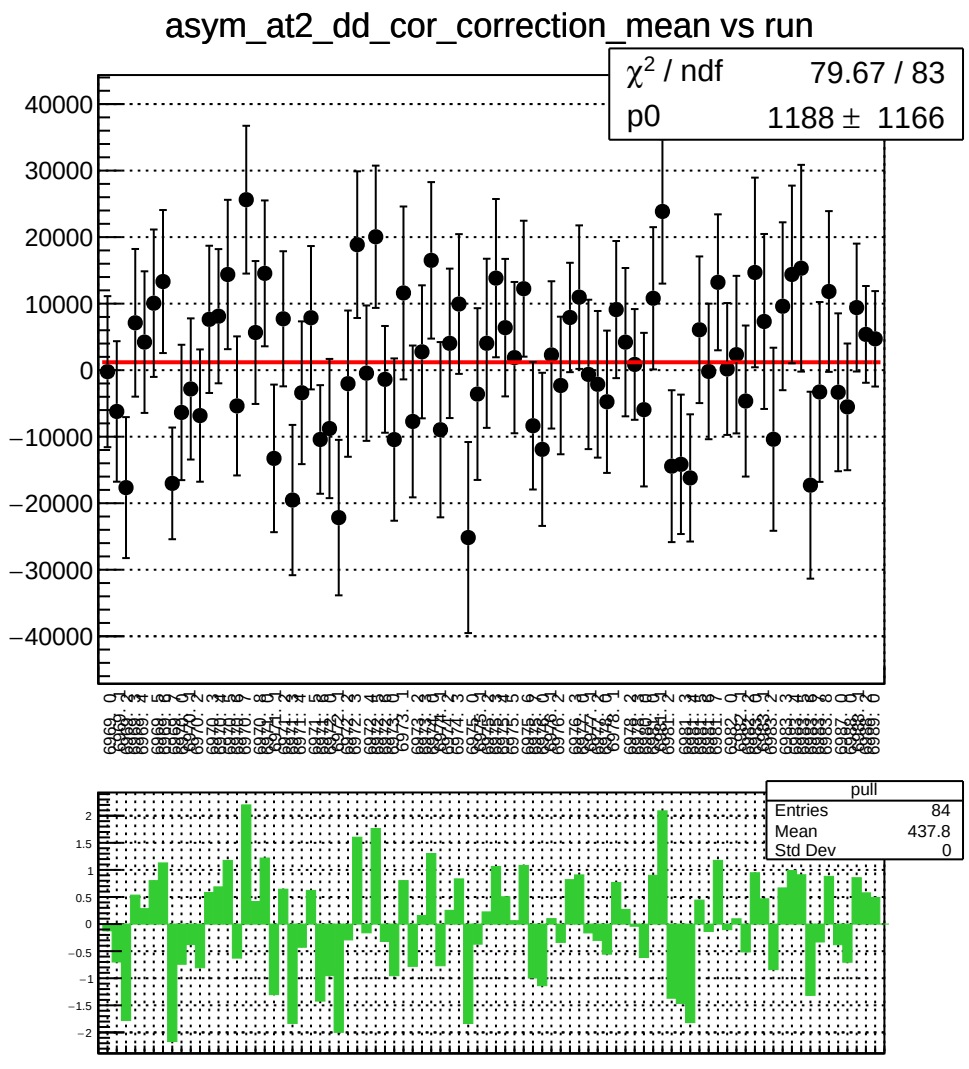

pull1D
Entries 84
Mean 0.005287
Std Dev 0.9739

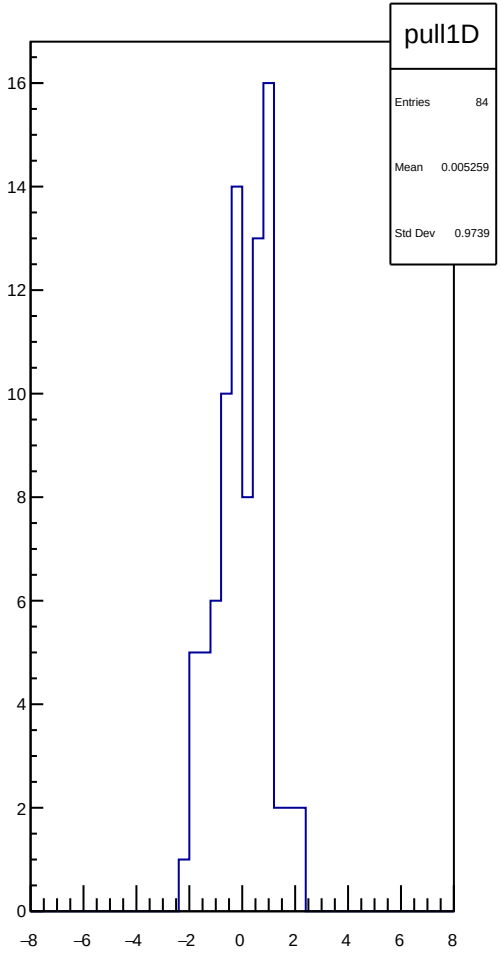

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1.891e+04 / 83
p0 1060 ± 0.8242
1500
1400
1300
1200
1100
1000
900

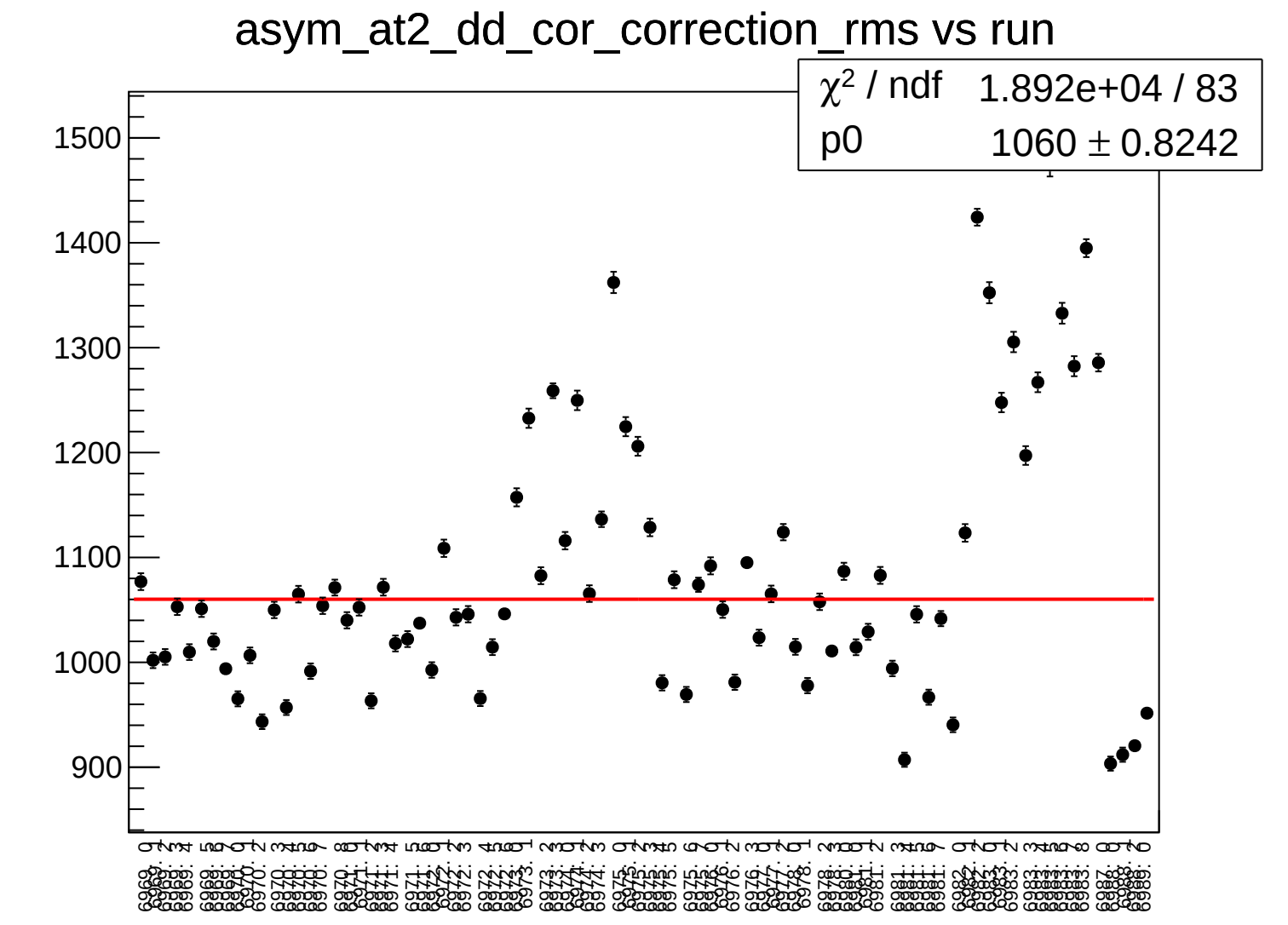

cor_asym_at2_dd_mean vs run
χ² / ndf 86.19 / 83
p0 2485 ± 1879
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −304.1
Std Dev 0
3
2
1
0
−1
−2

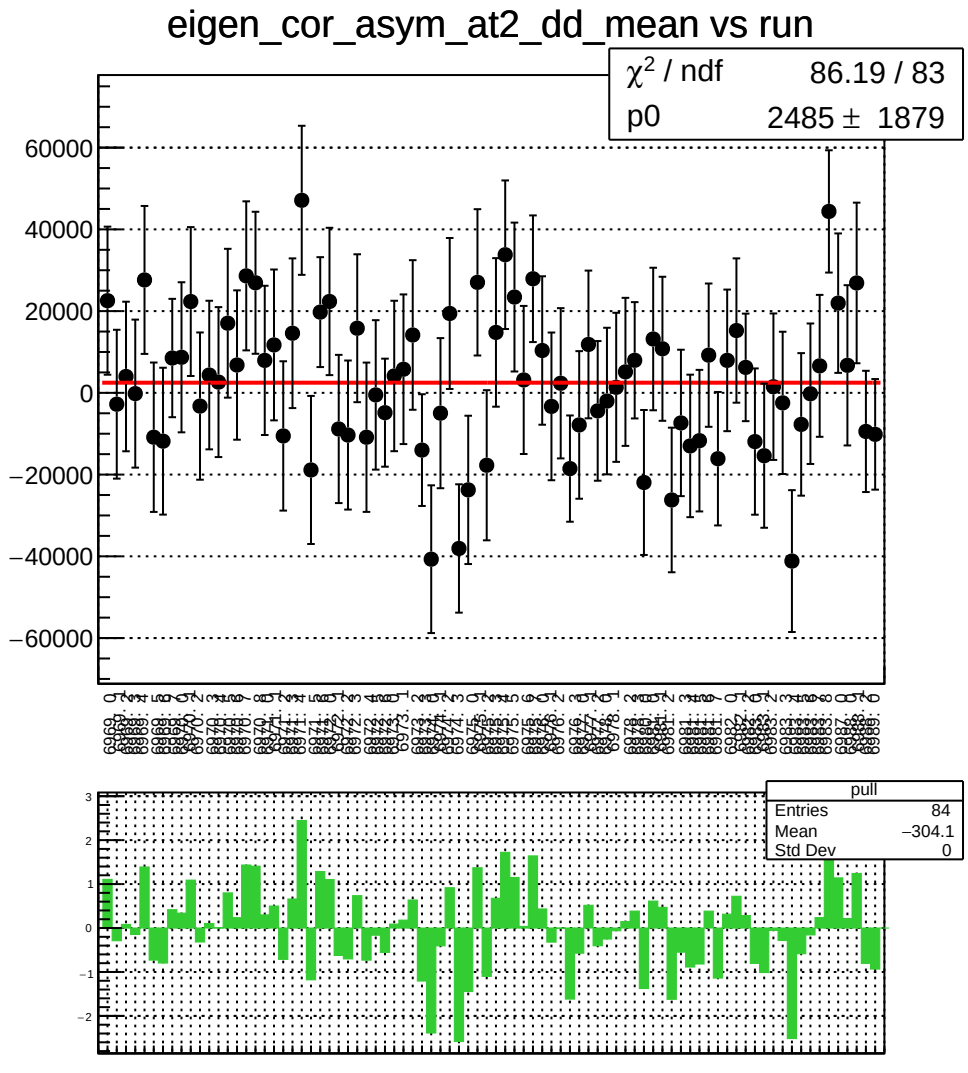

pull1D
Entries 84
Mean 0.01096
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

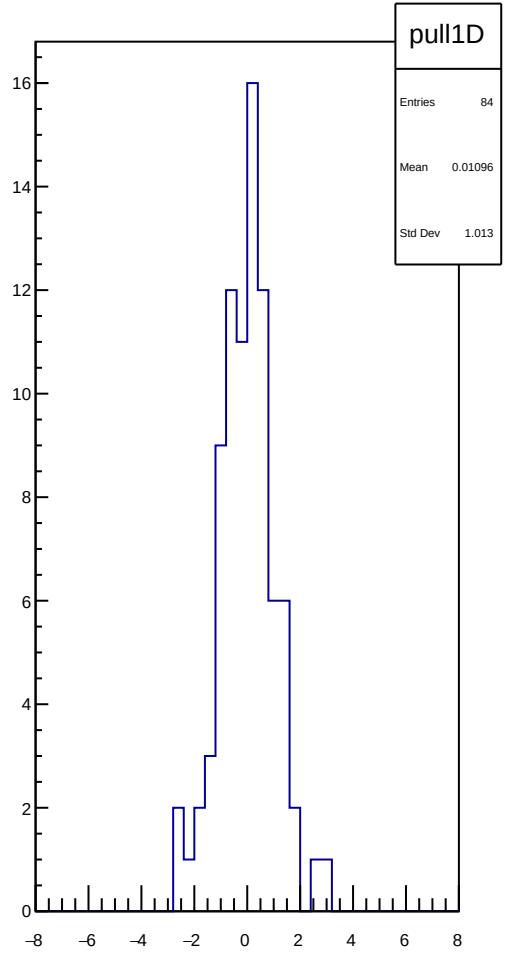

cor_asym_at2_dd_rms vs run
χ² / ndf 1175 / 83
p0 1718 ± 1.329
1900
1850
1800
1750
1700
1650
1600

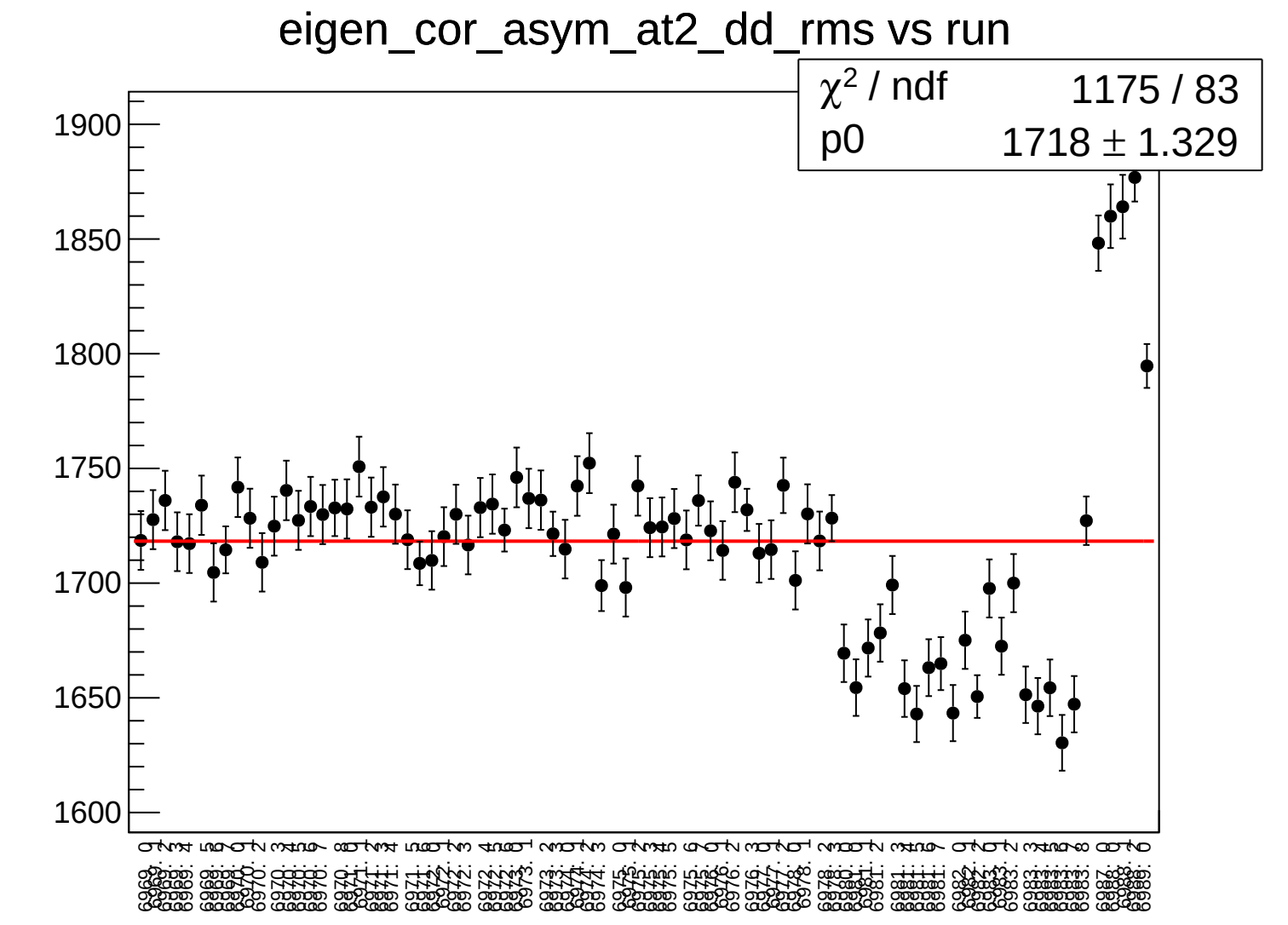

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 79.67 / 83
p0 1188 ± 1166
pull
Entries 84
Mean 437.8
Std Dev 0

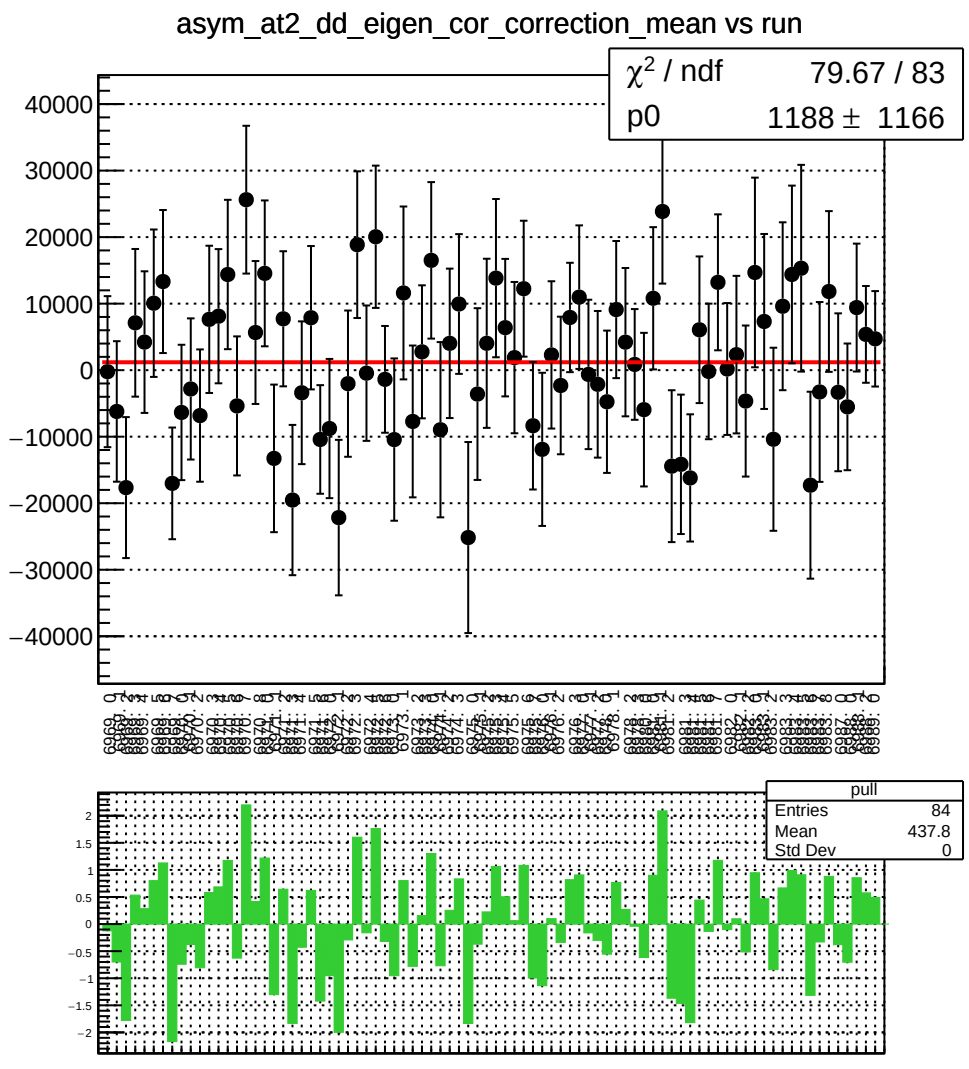

pull1D
Entries 84
Mean 0.005259
Std Dev 0.9739

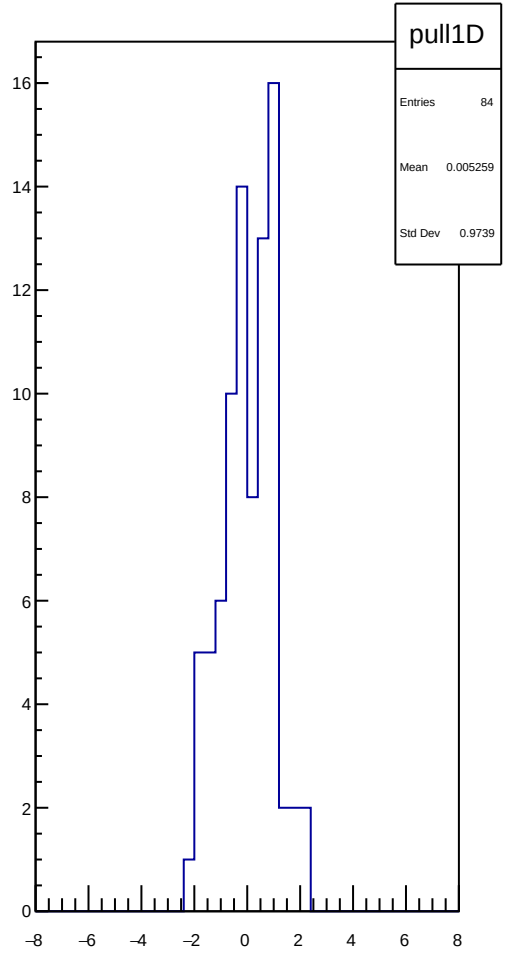

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1.892e+04 / 83
p0 1060 ± 0.8242
1500
1400
1300
1200
1100
1000
900

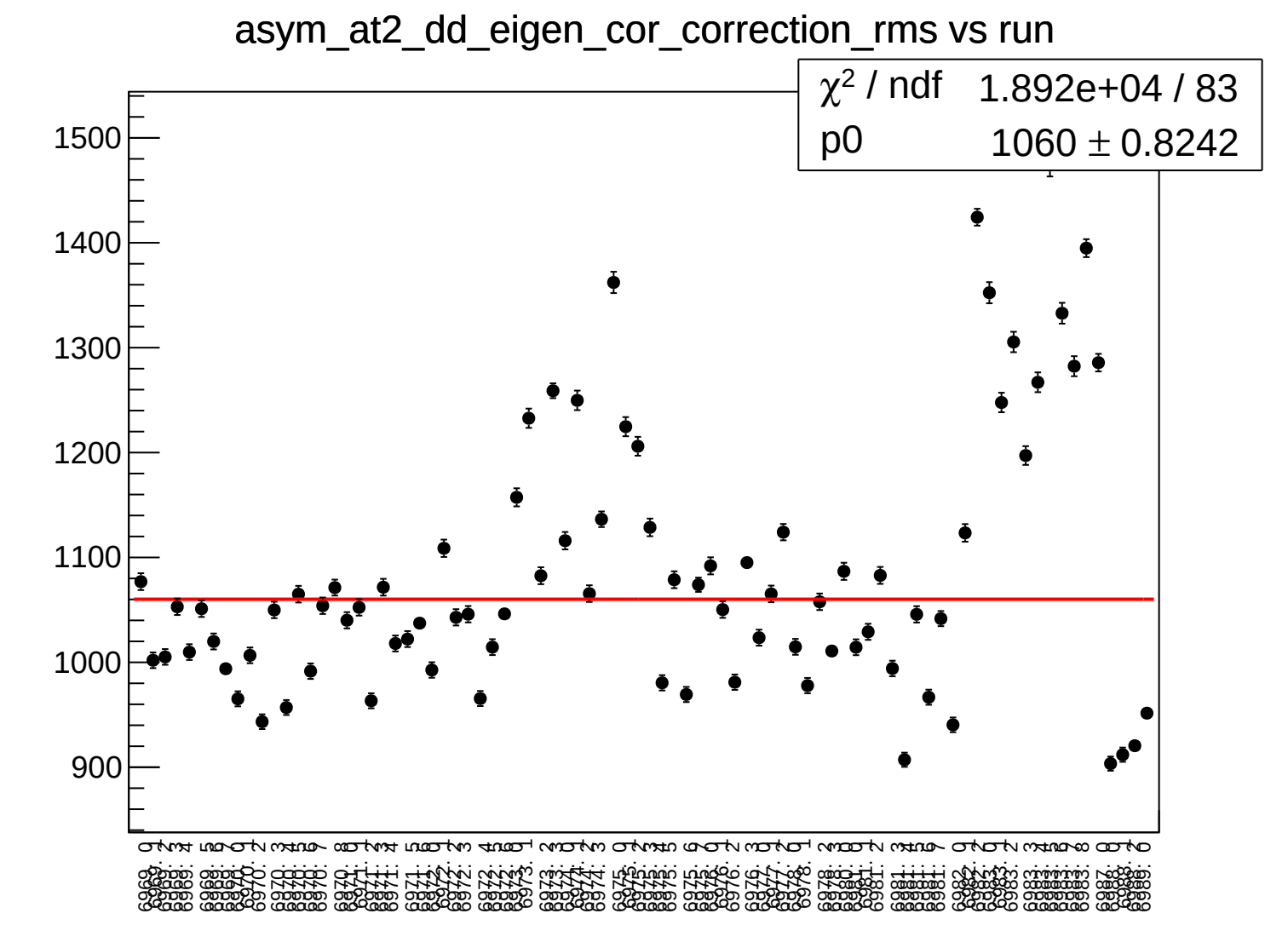

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 86.19 / 83
p0 2485 ± 1879
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −304.1
Std Dev 0
3
2
1
0
−1
−2

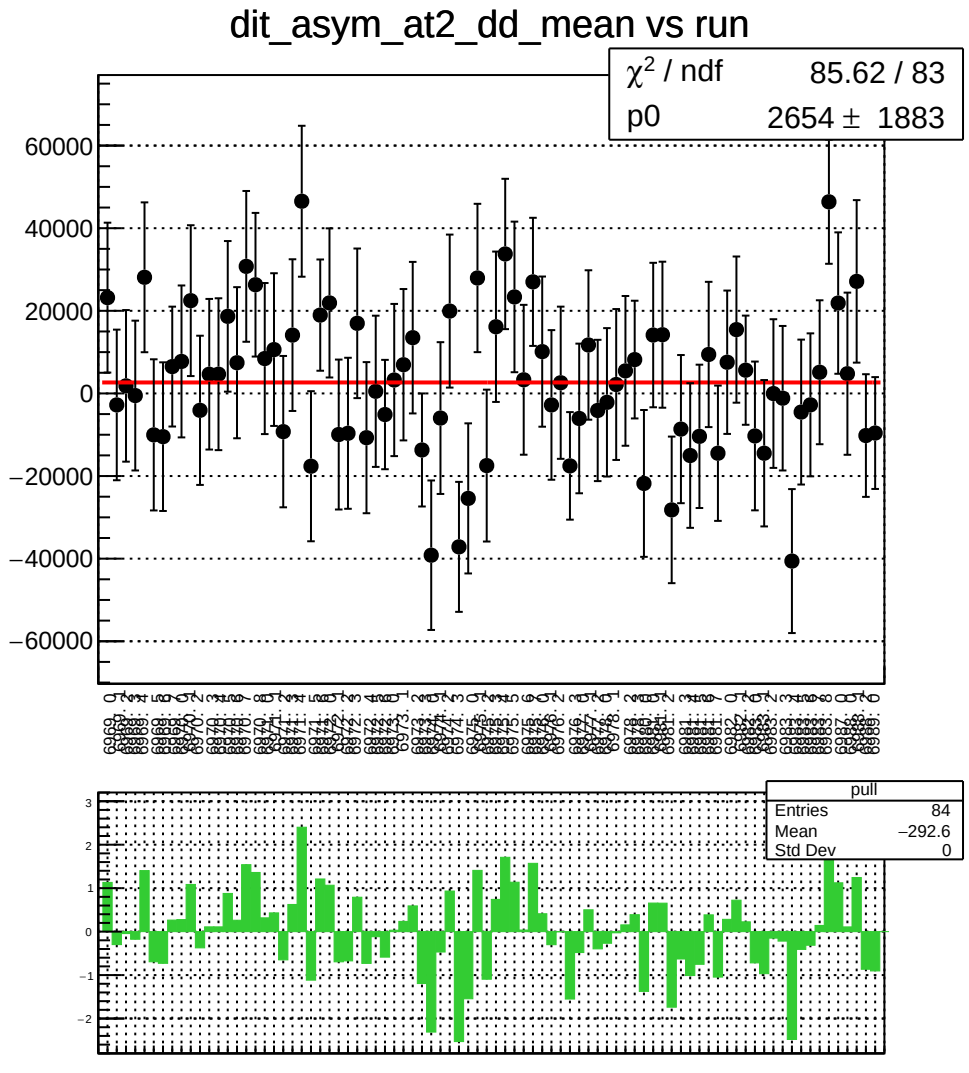

pull1D
Entries 84
Mean 0.01096
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

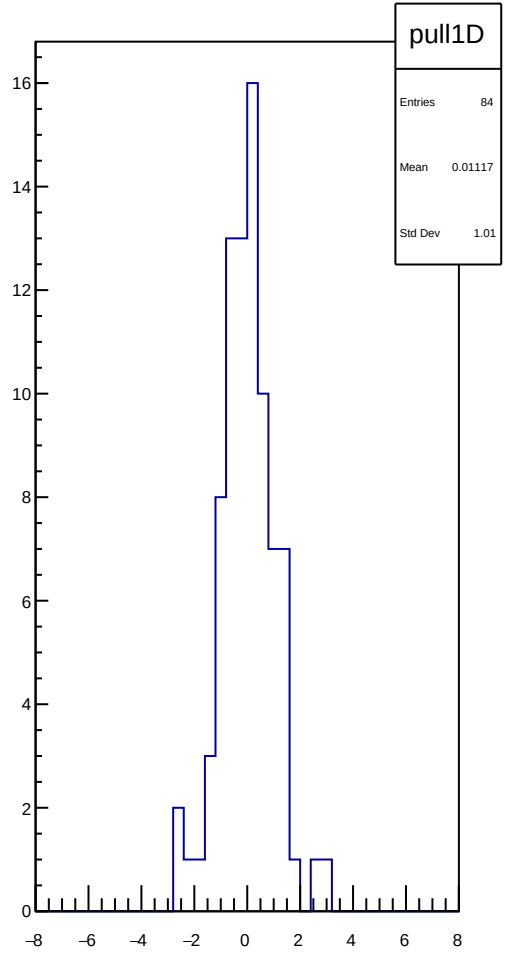

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 1175 / 83
p0 1718 ± 1.329
1900
1850
1800
1750
1700
1650
1600

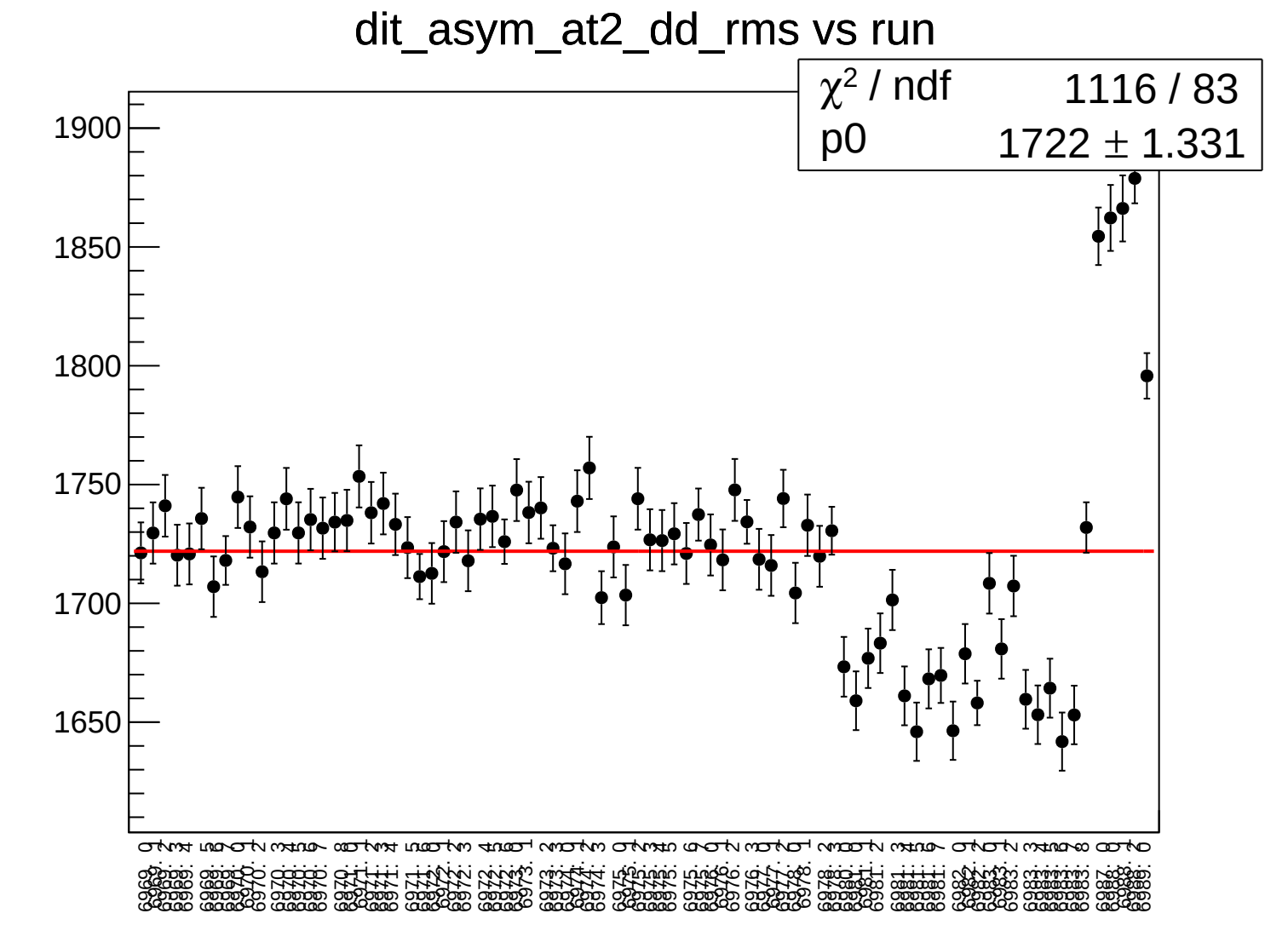

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.67 / 83
p0 1188 ± 1166
pull
Entries 84
Mean 437.8
Std Dev 0

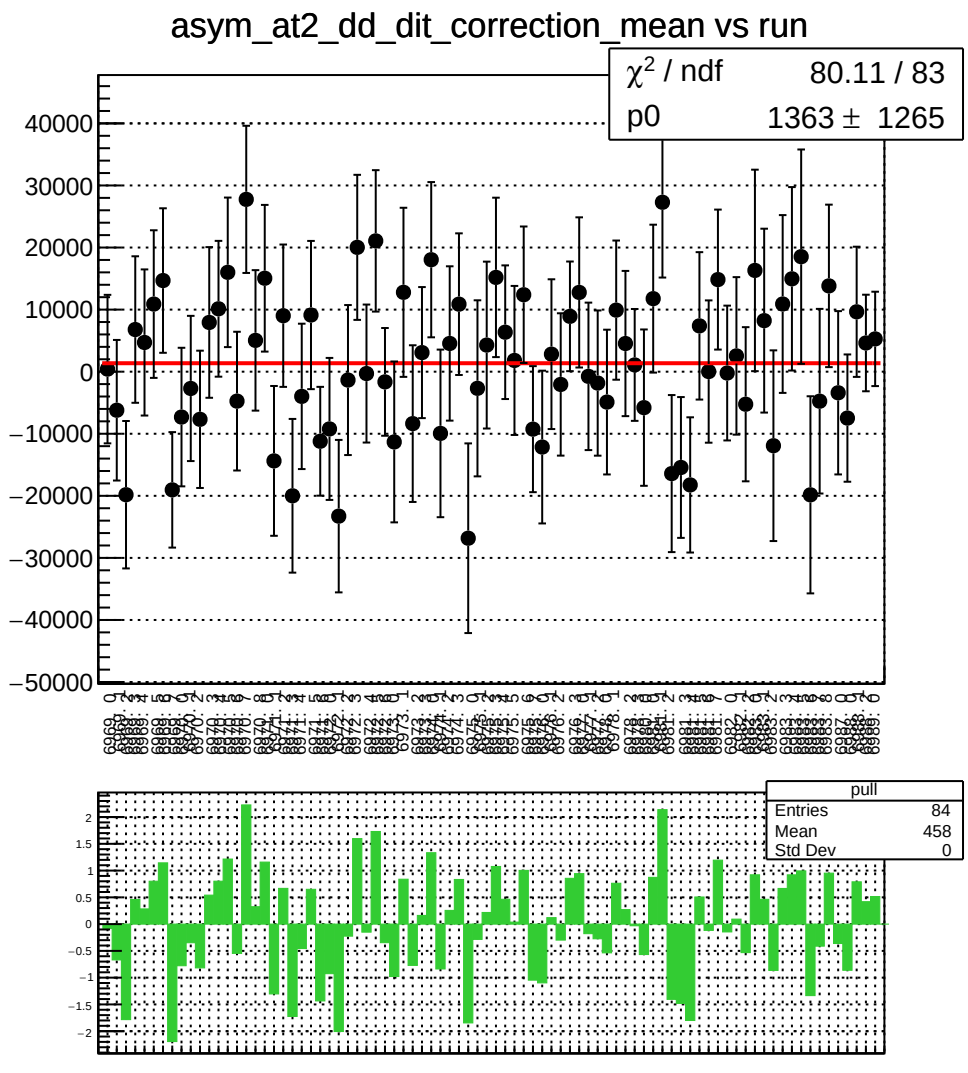

pull1D
Entries 84
Mean 0.005259
Std Dev 0.9739

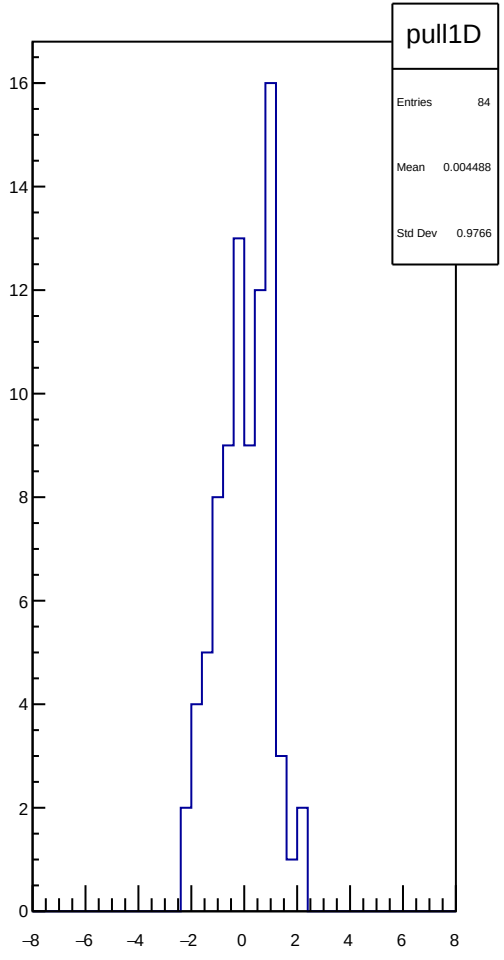

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.892e+04 / 83
p0 1060 ± 0.8242
1500
1400
1300
1200
1100
1000
900

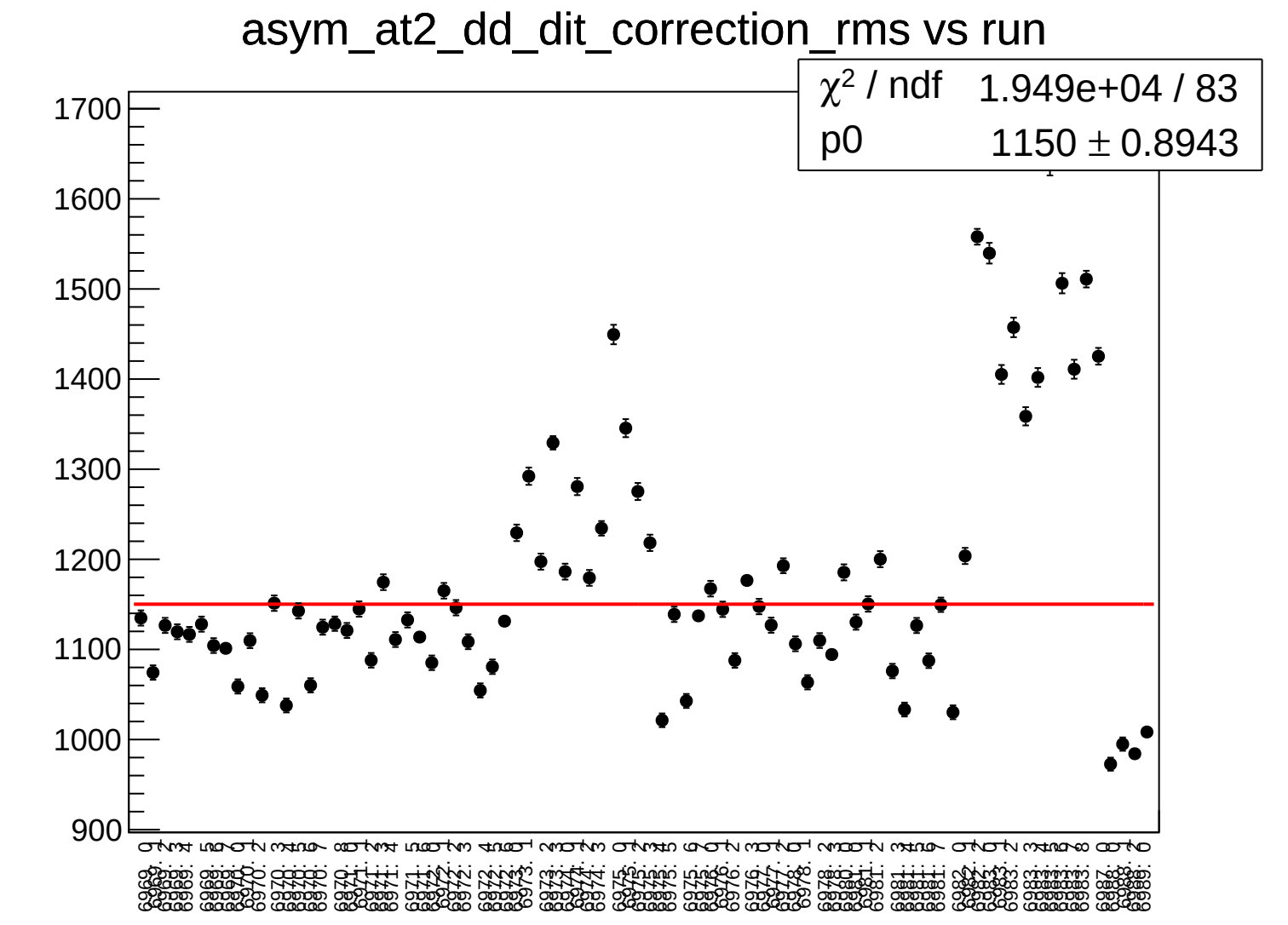

dit_asym_at2_dd_mean vs run
χ² / ndf 85.62 / 83
p0 2654 ± 1883
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −292.6
Std Dev 0
3
2
1
0
−1
−2

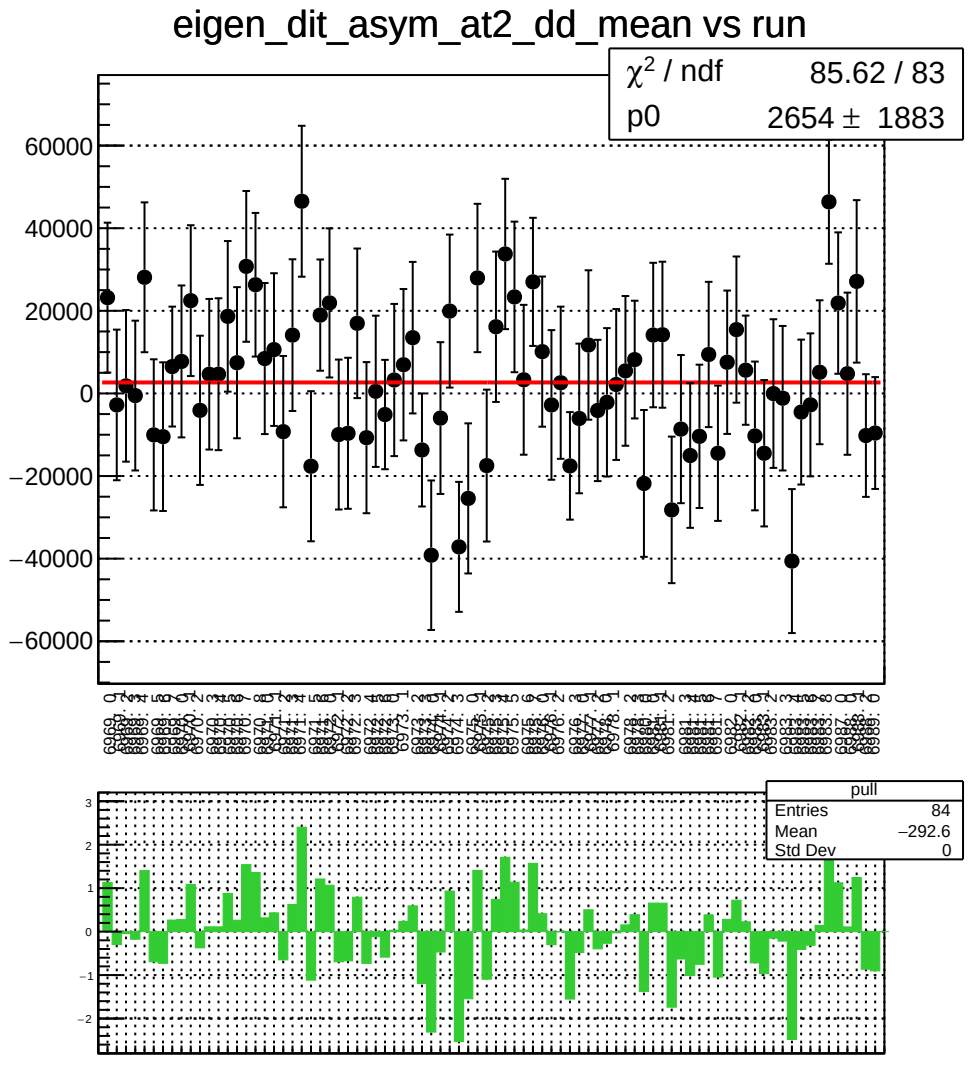

pull1D
Entries 84
Mean 0.01117
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

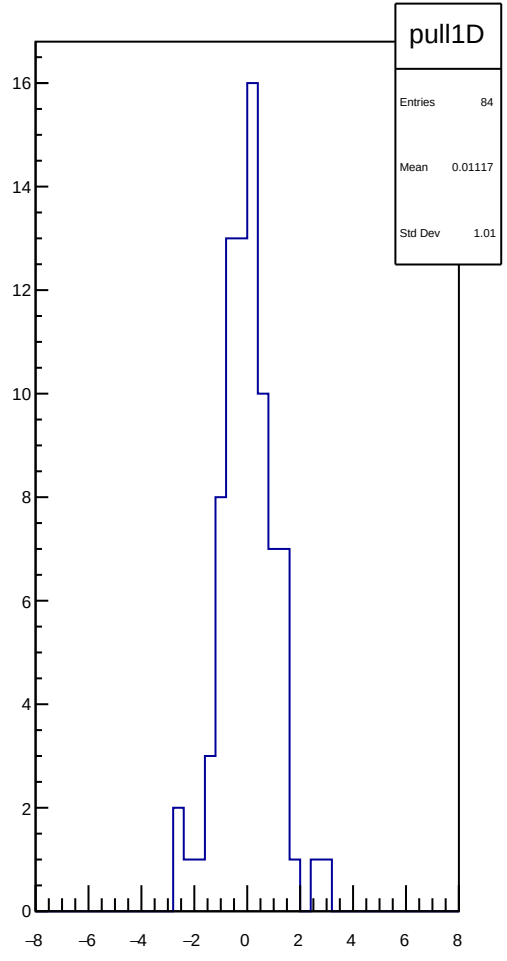

dit_asym_at2_dd_rms vs run
χ² / ndf 1116 / 83
p0 1722 ± 1.331
1900
1850
1800
1750
1700
1650

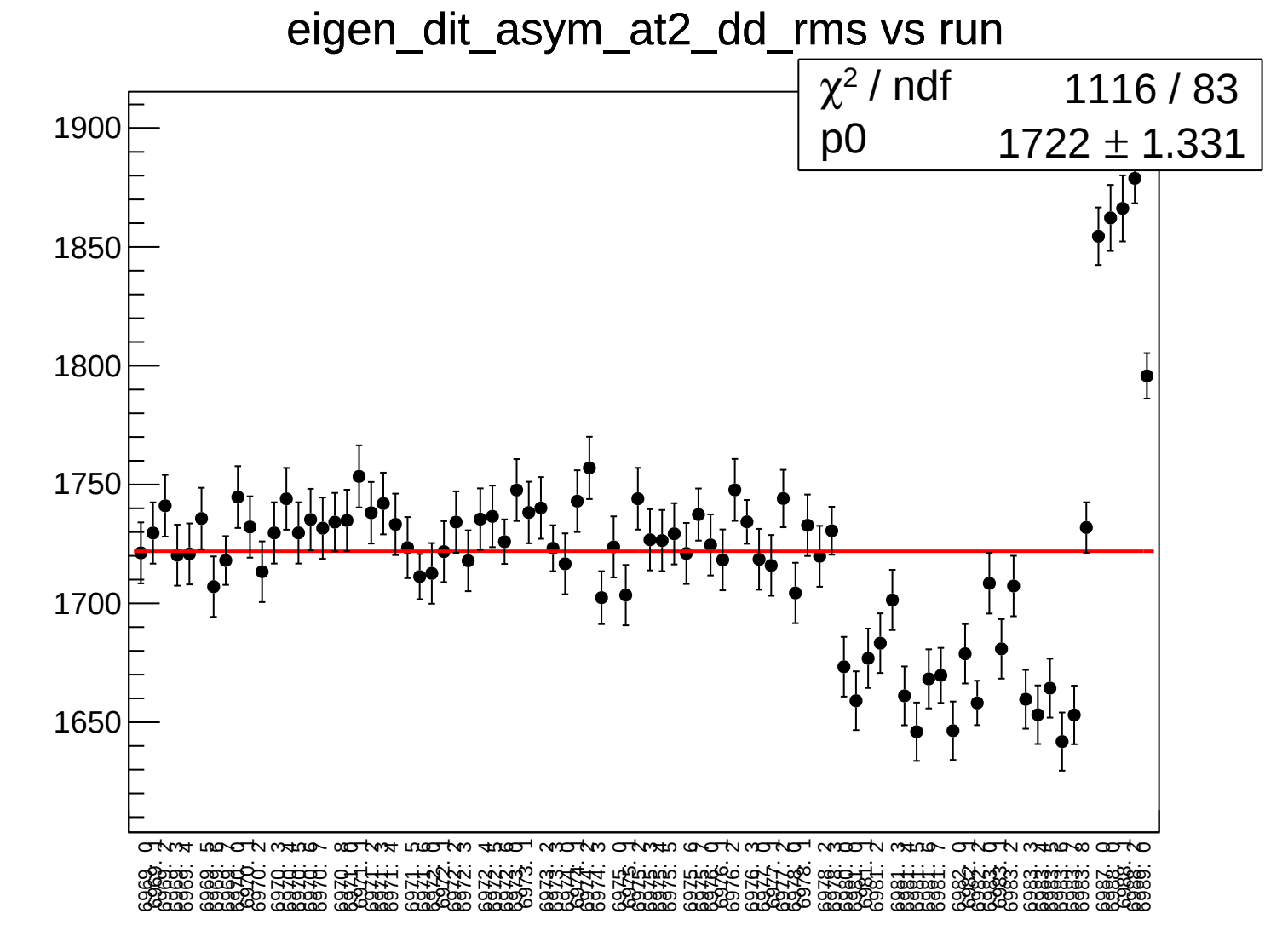

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 80.11 / 83
p0 1363 ± 1265
pull
Entries 84
Mean 458
Std Dev 0

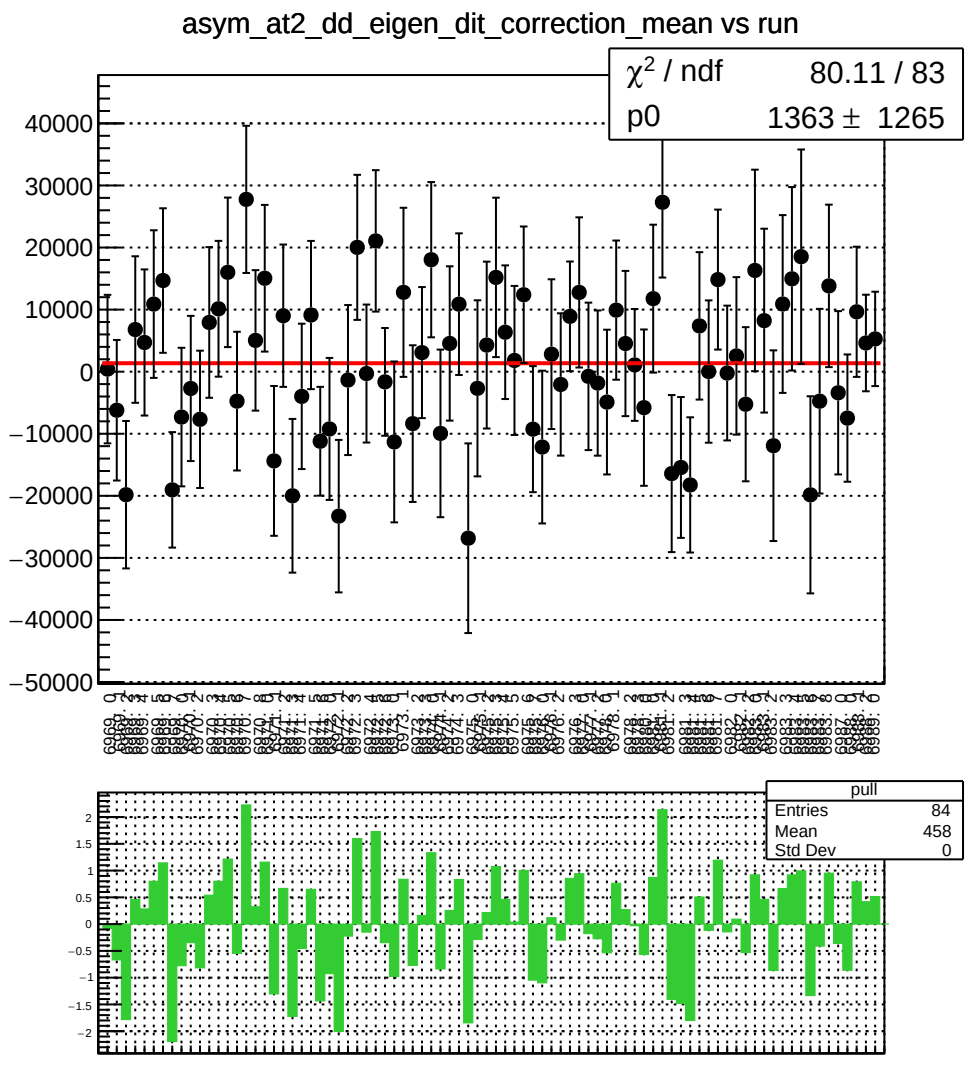

pull1D
Entries 84
Mean 0.004488
Std Dev 0.9766

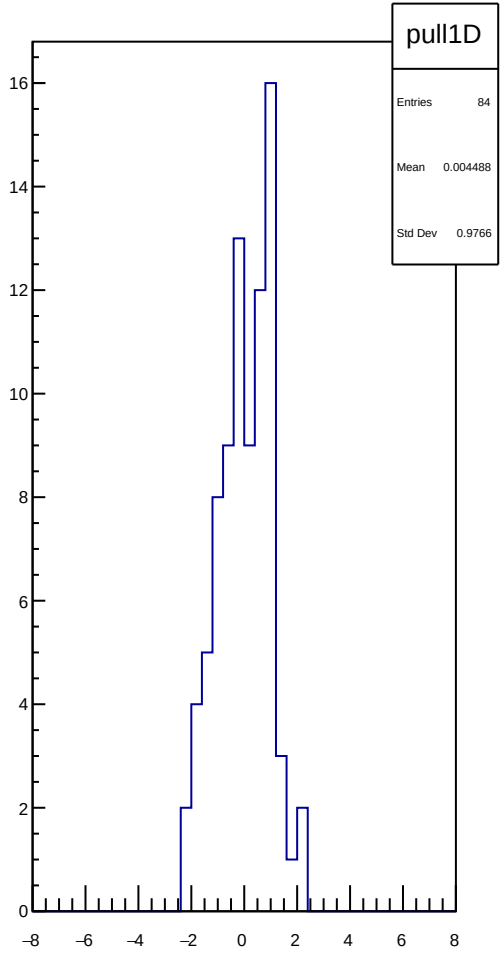

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1.949e+04 / 83
p0 1150 ± 0.8943
1700
1600
1500
1400
1300
1200
1100
1000
900

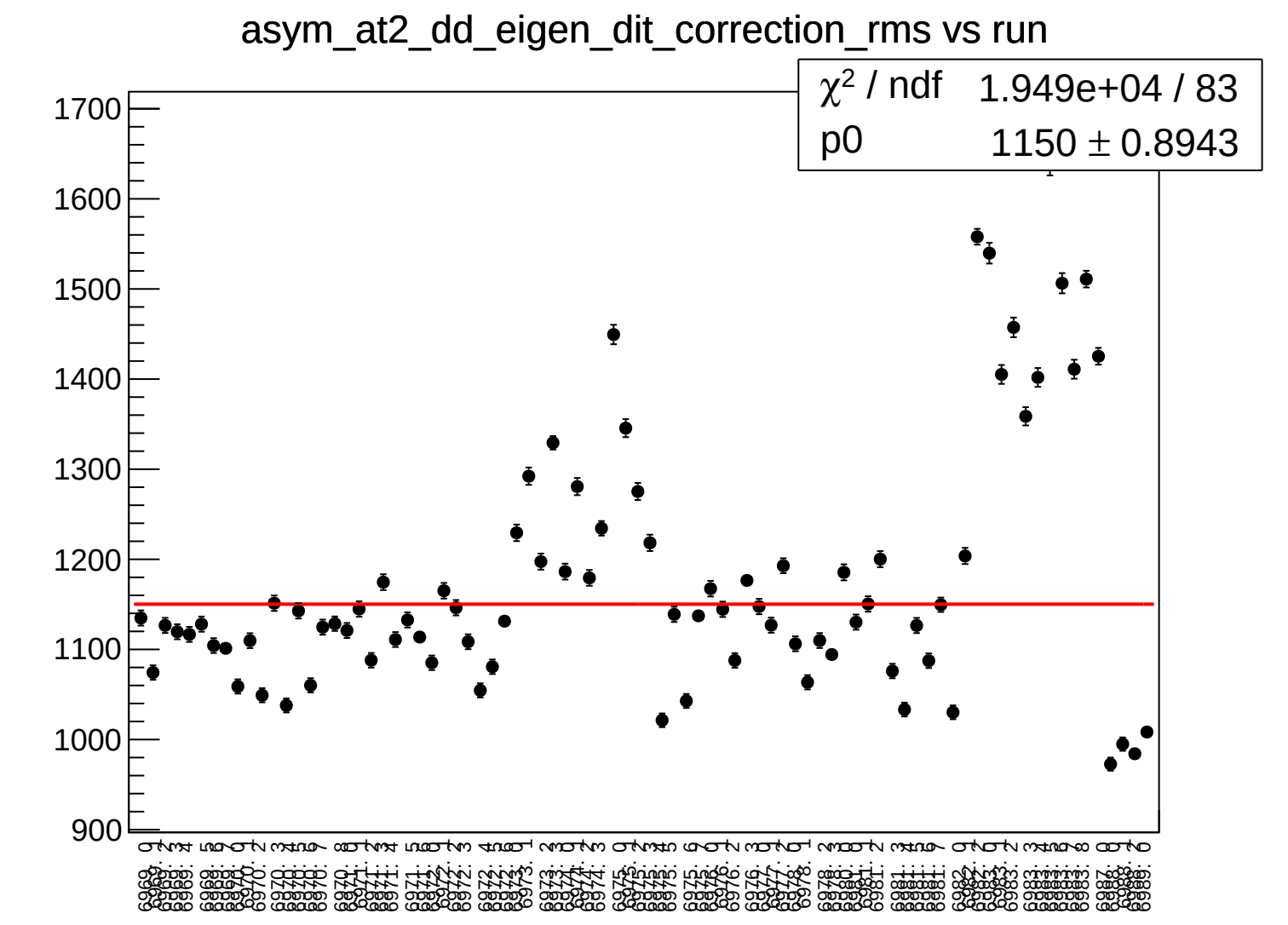

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 85.62 / 83
p0 2654 ± 1883
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −292.6
Std Dev 0
3
2
1
0
−1
−2

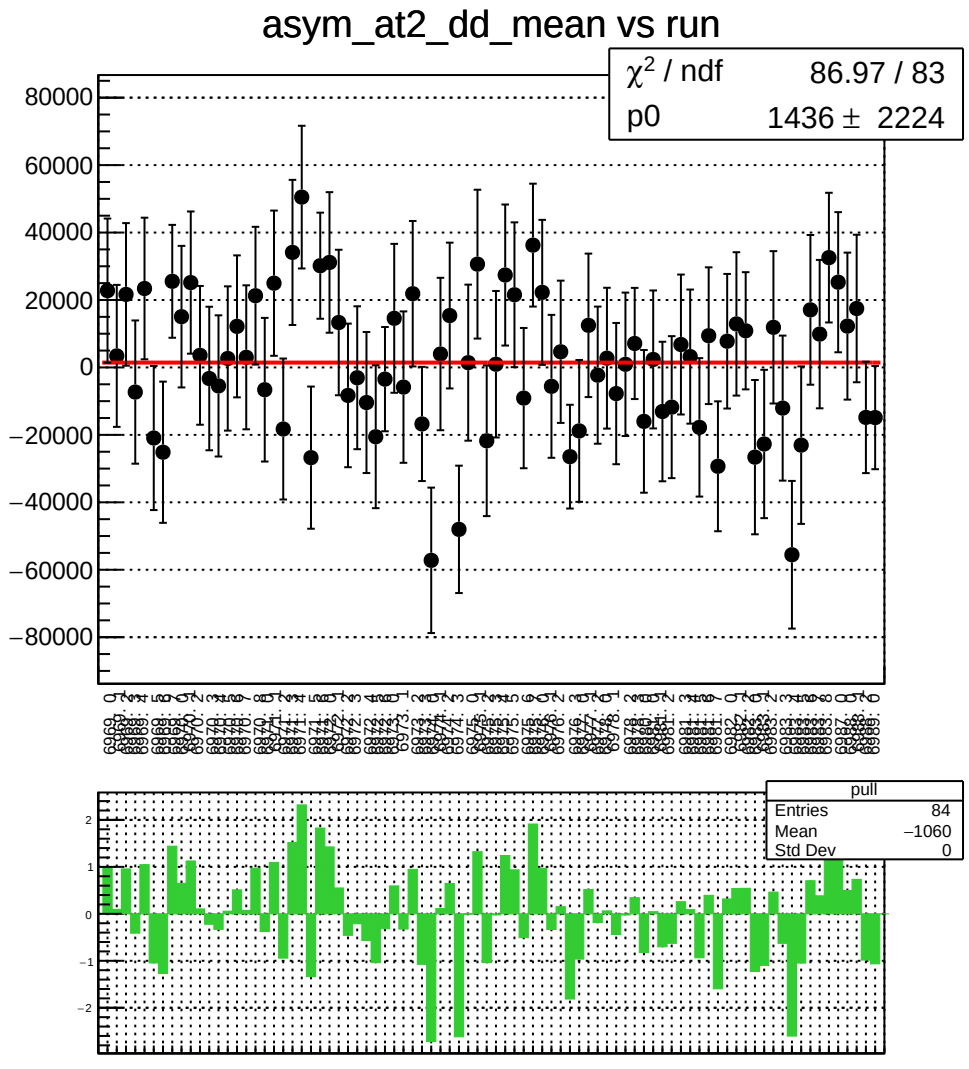

pull1D
Entries 84
Mean 0.01117
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

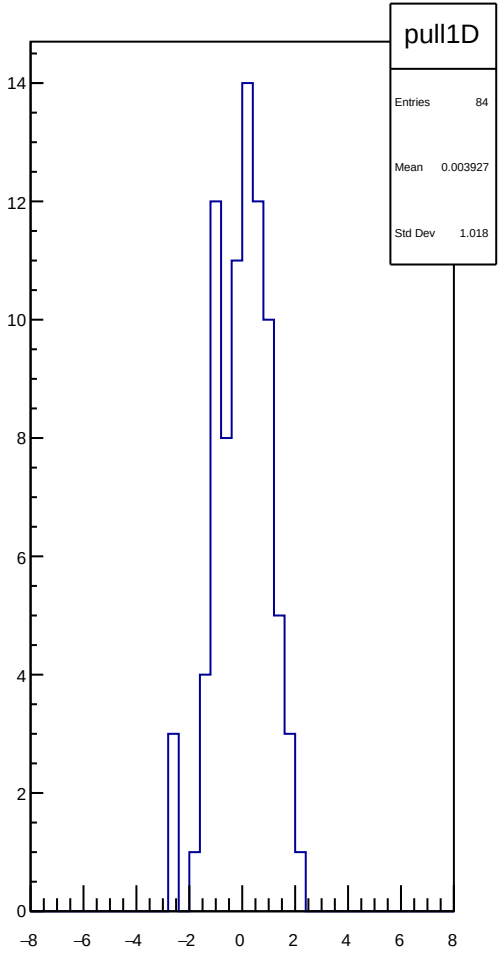

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 1116 / 83
p0 1722 ± 1.331
1900
1850
1800
1750
1700
1650

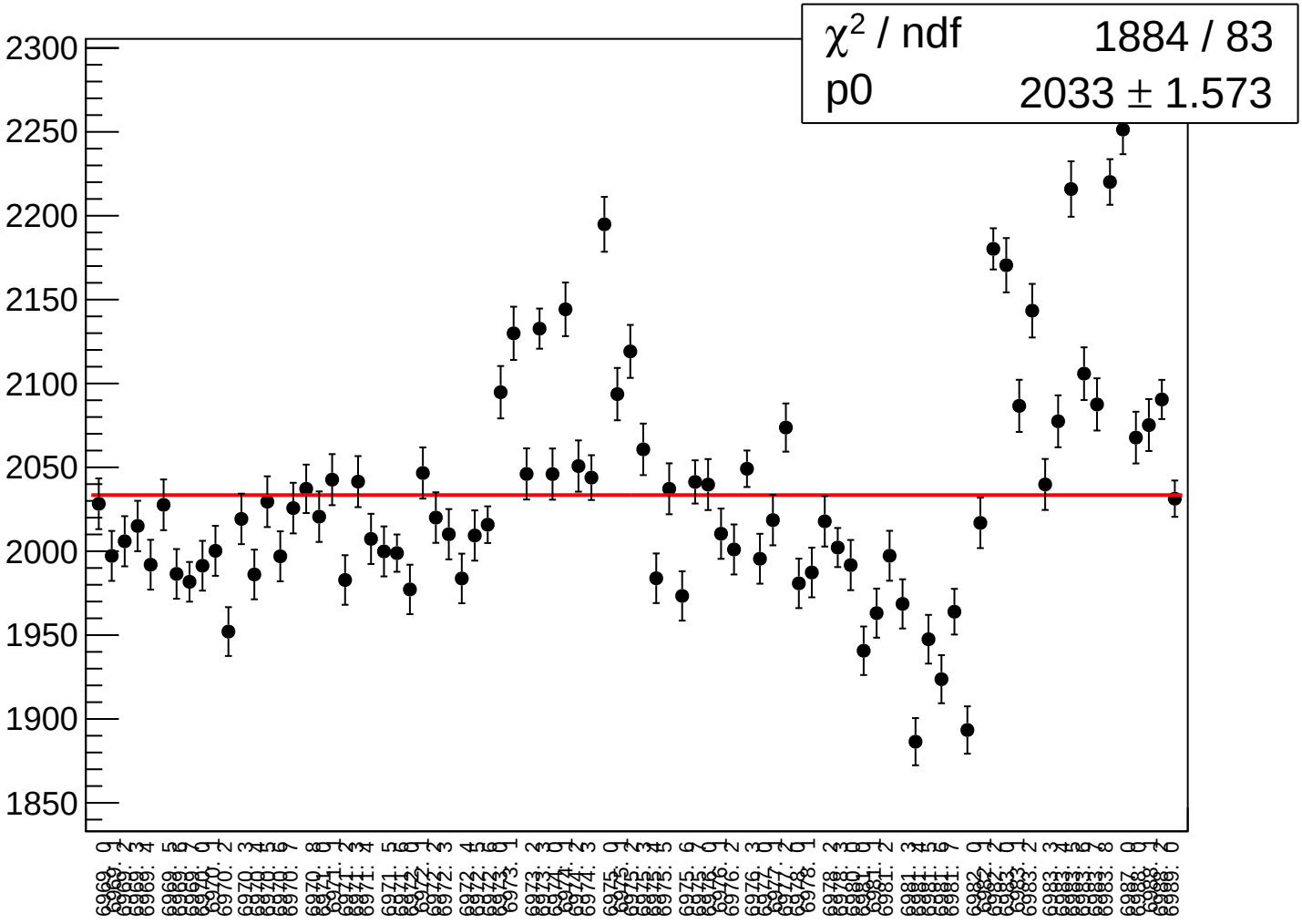

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.11 / 83
p0 1363 ± 1265
pull
Entries 84
Mean 458
Std Dev 0

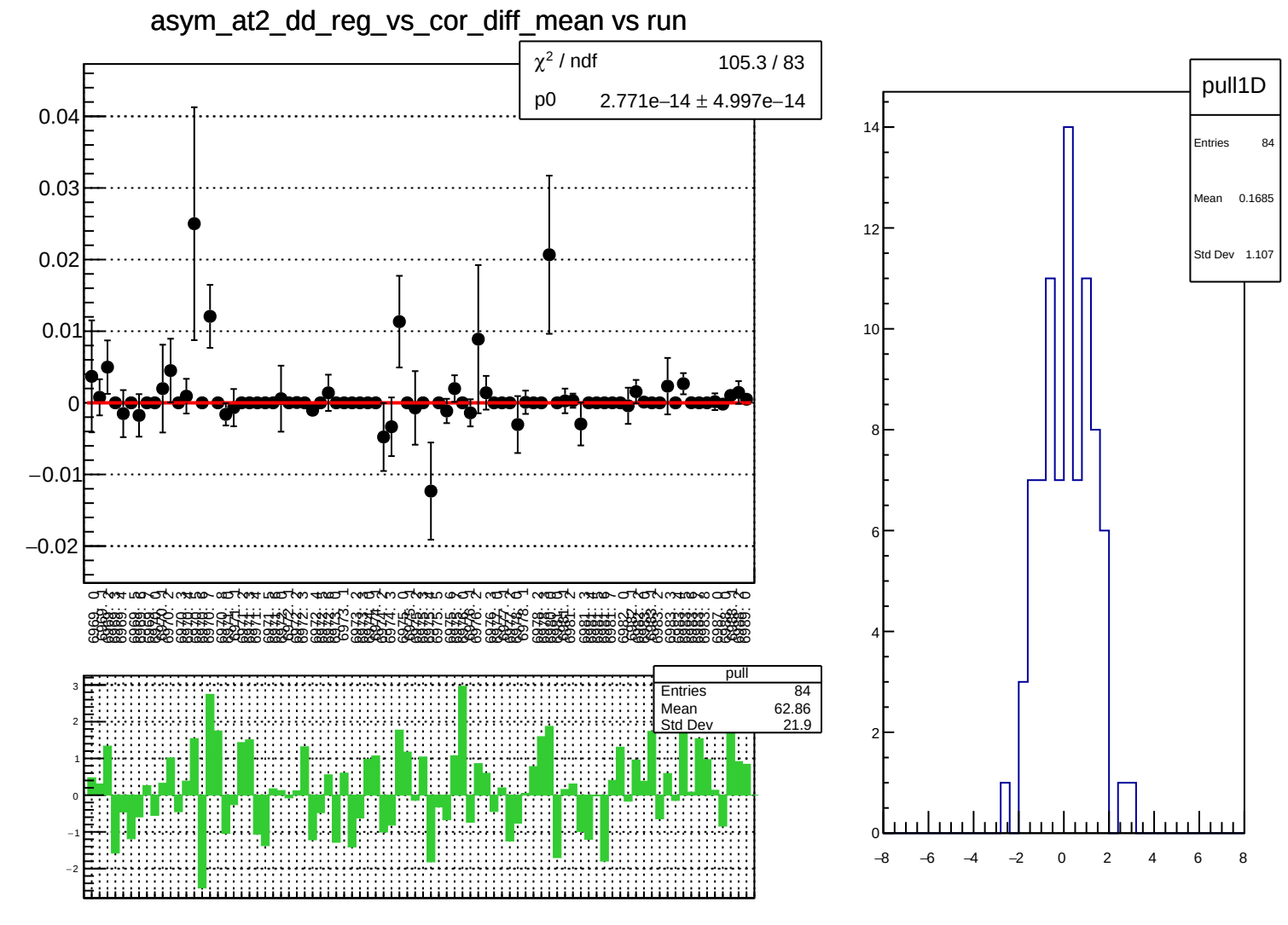

pull1D
Entries 84
Mean 0.004488
Std Dev 0.9766

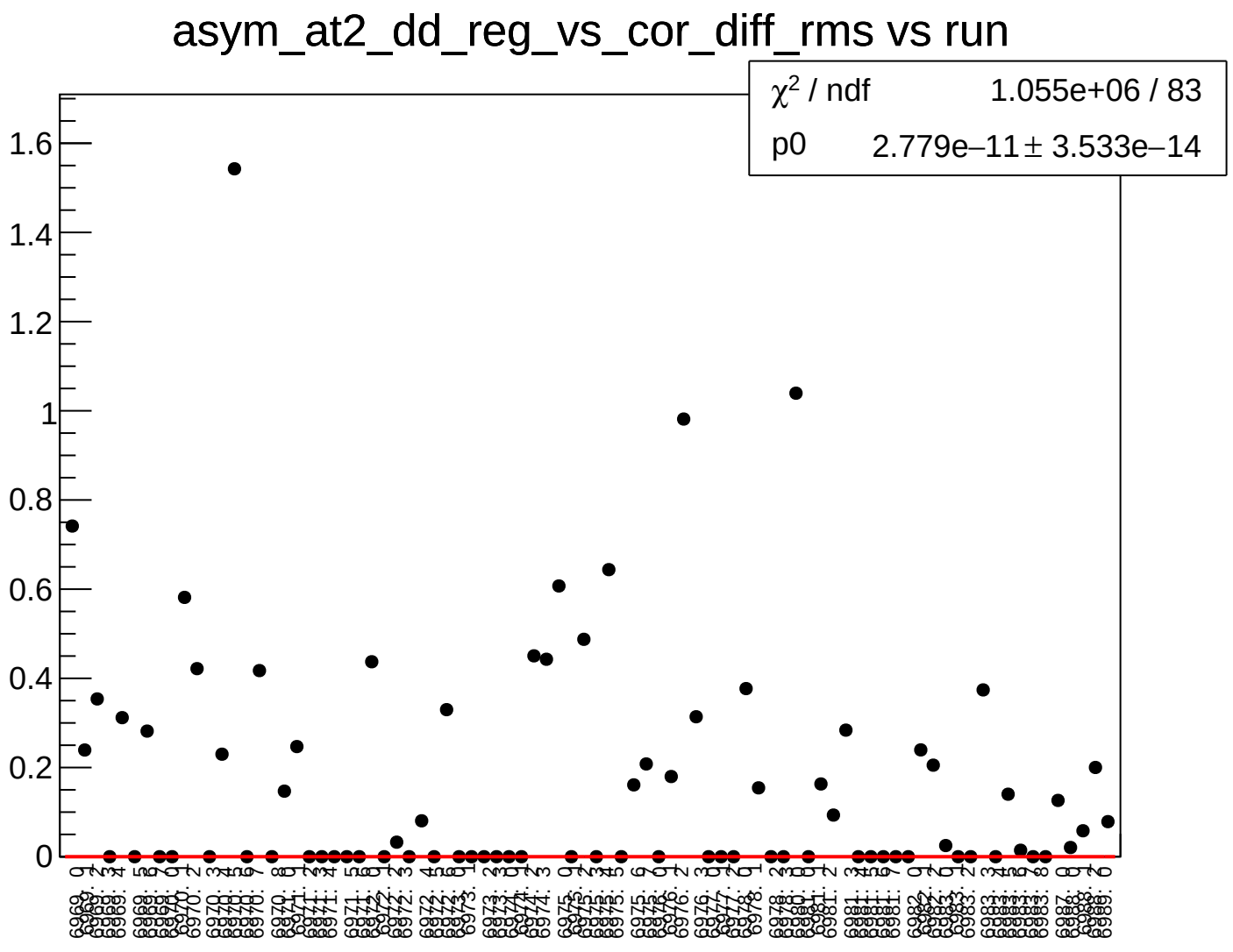

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.949e+04 / 83
p0 1150 ± 0.8943
1700
1600
1500
1400
1300
1200
1100
1000
900

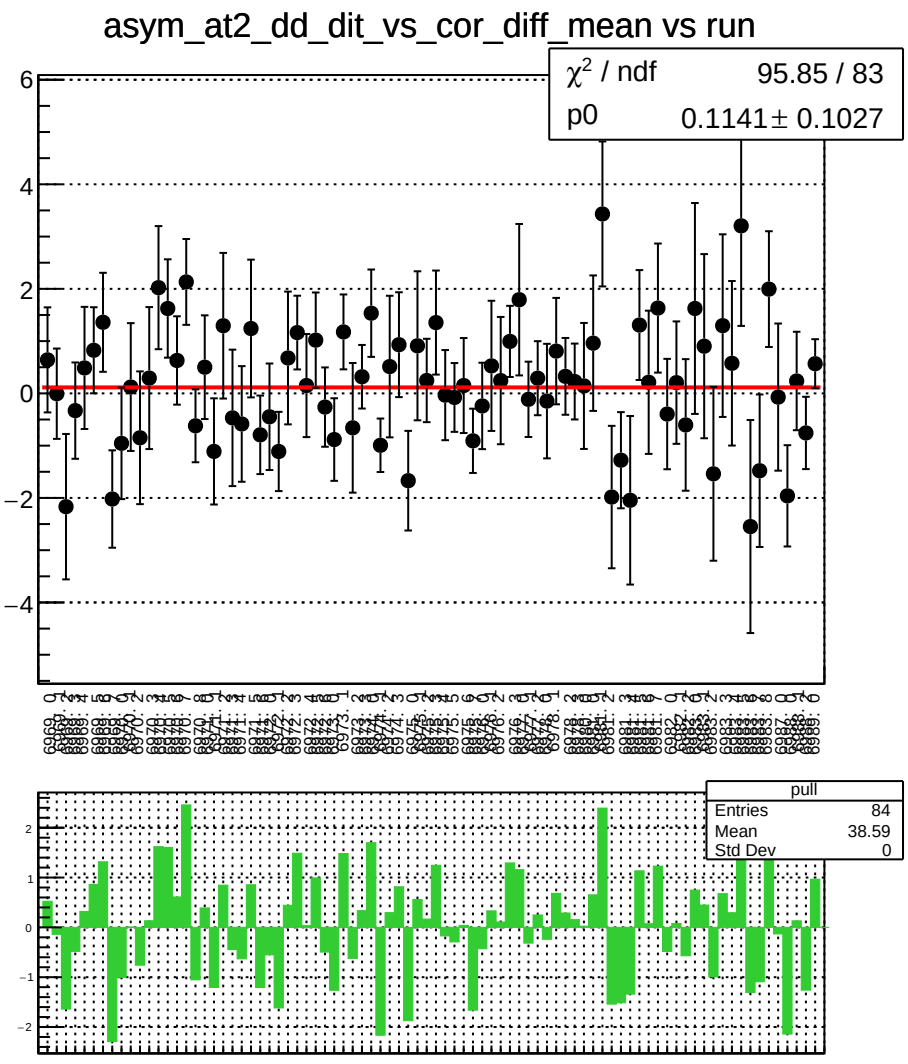

asym_at2_dd_mean vs run
χ² / ndf 86.97 / 83
p0 1436 ± 2224
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −1060
Std Dev 0
2
1
0
−1
−2

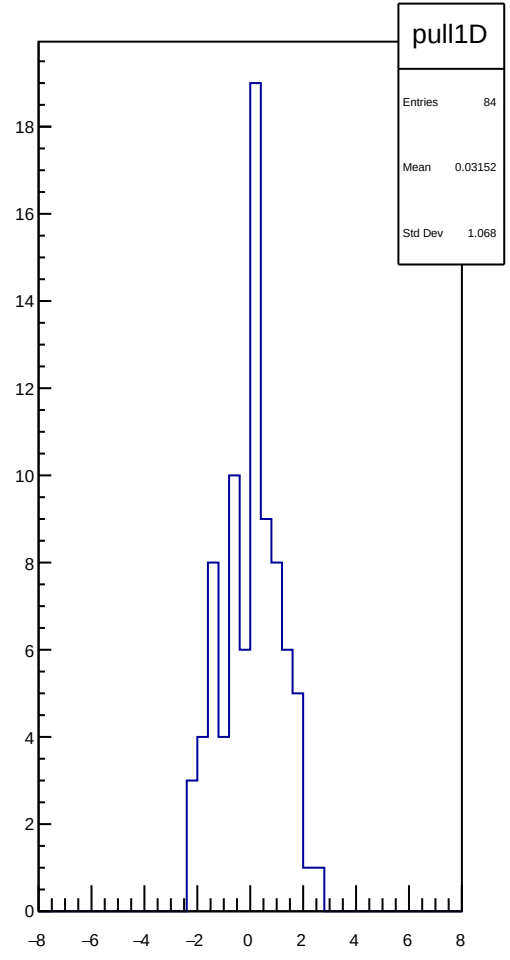

pull1D
Entries 84
Mean 0.003927
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

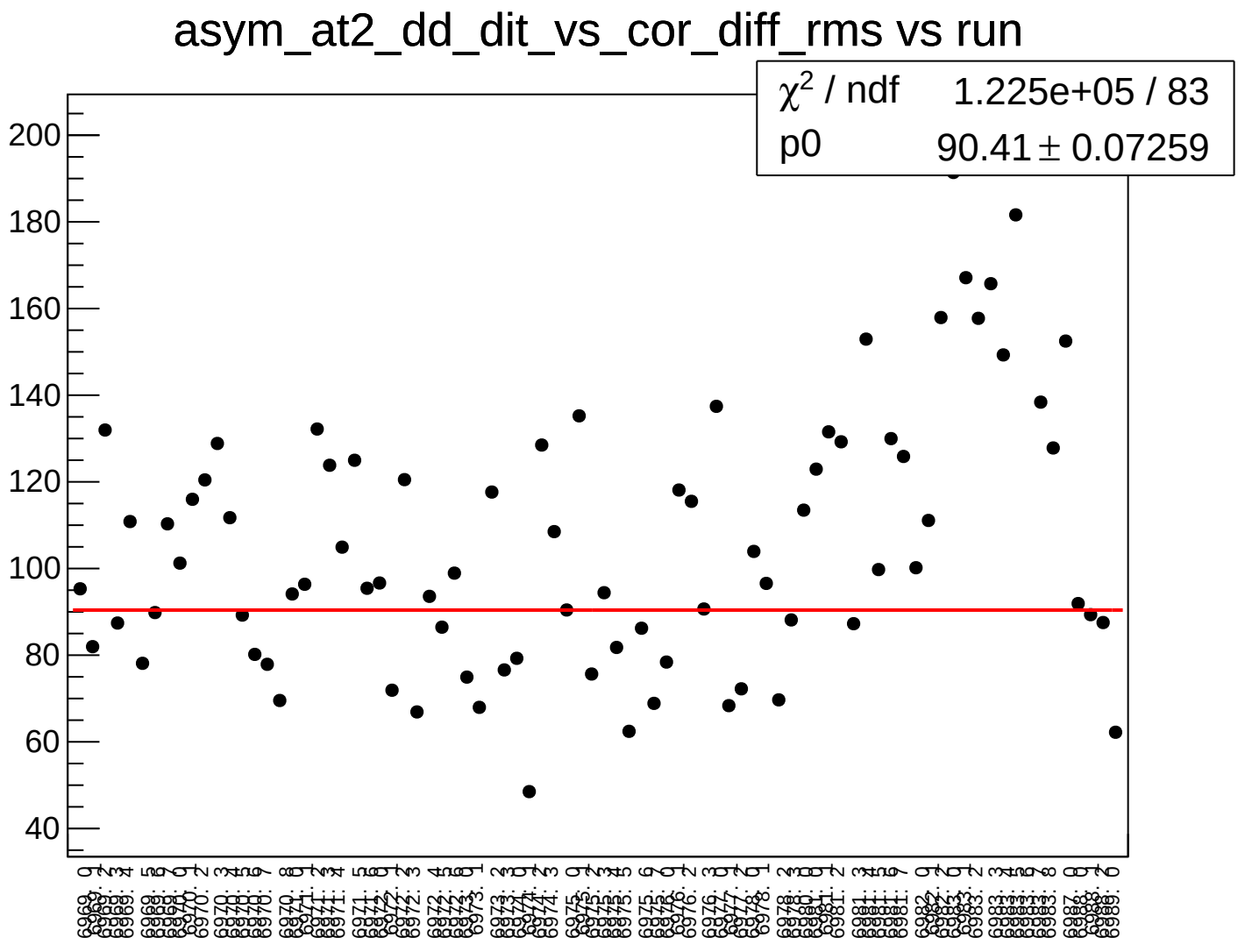

asym_at2_dd_rms vs run
χ² / ndf 1884 / 83
p0 2033 ± 1.573
2300
2250
2200
2150
2100
2050
2000
1950
1900
1850

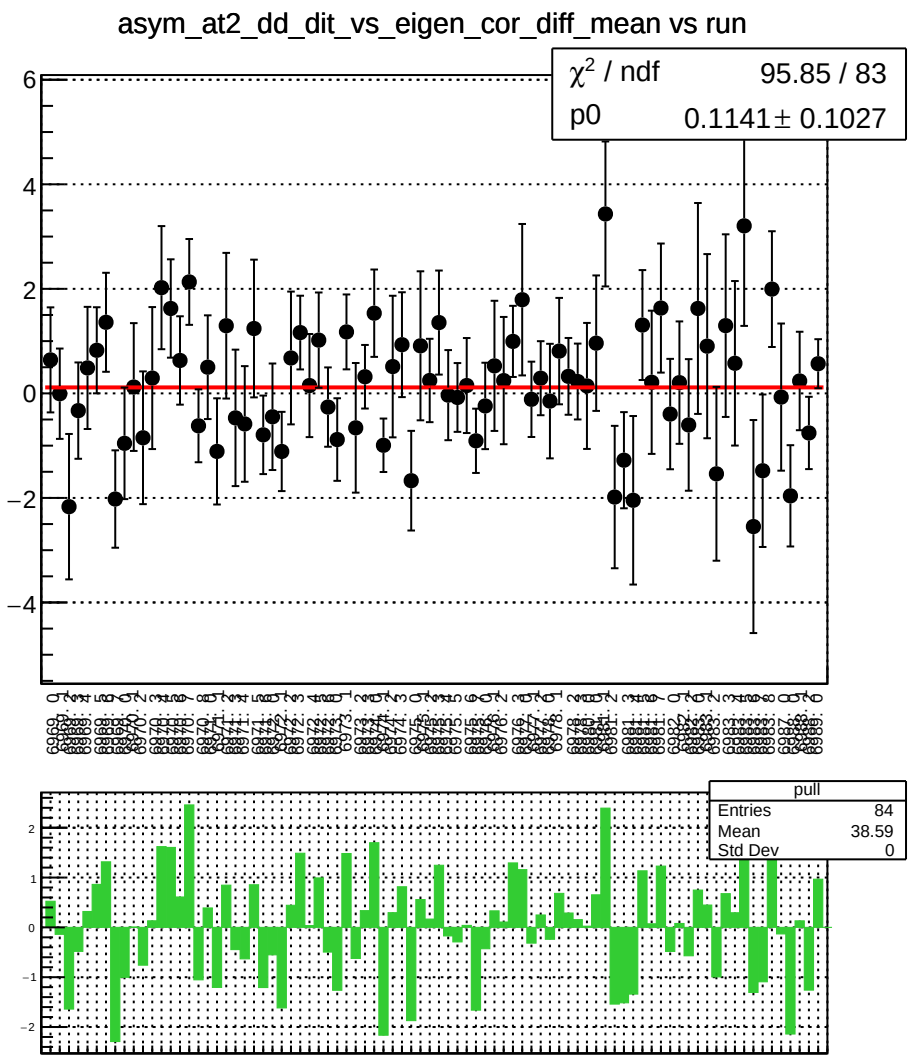

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 83
p0 2.771e−14 ± 4.997e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 62.86
Std Dev 21.9
pull1D
Entries 84
Mean 0.1685
Std Dev 1.107

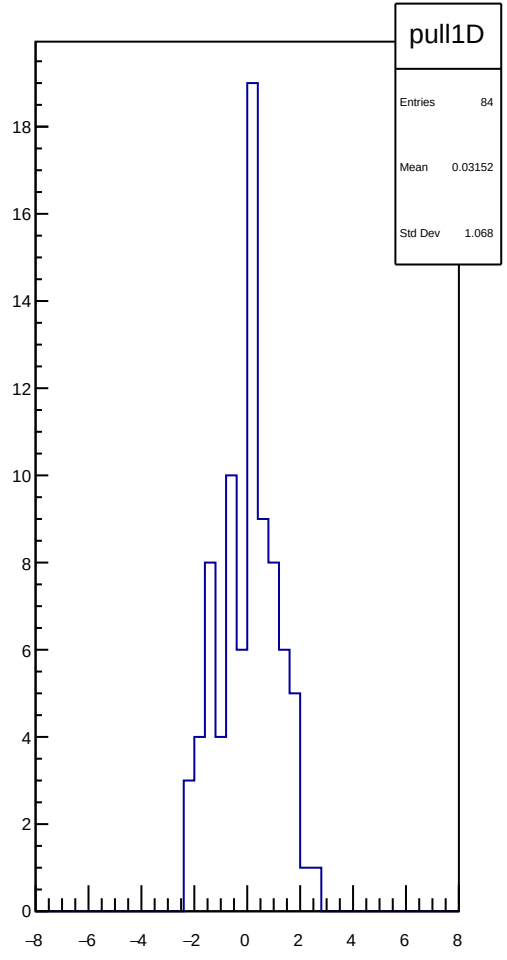

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 83
p0 2.779e−11 ± 3.533e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

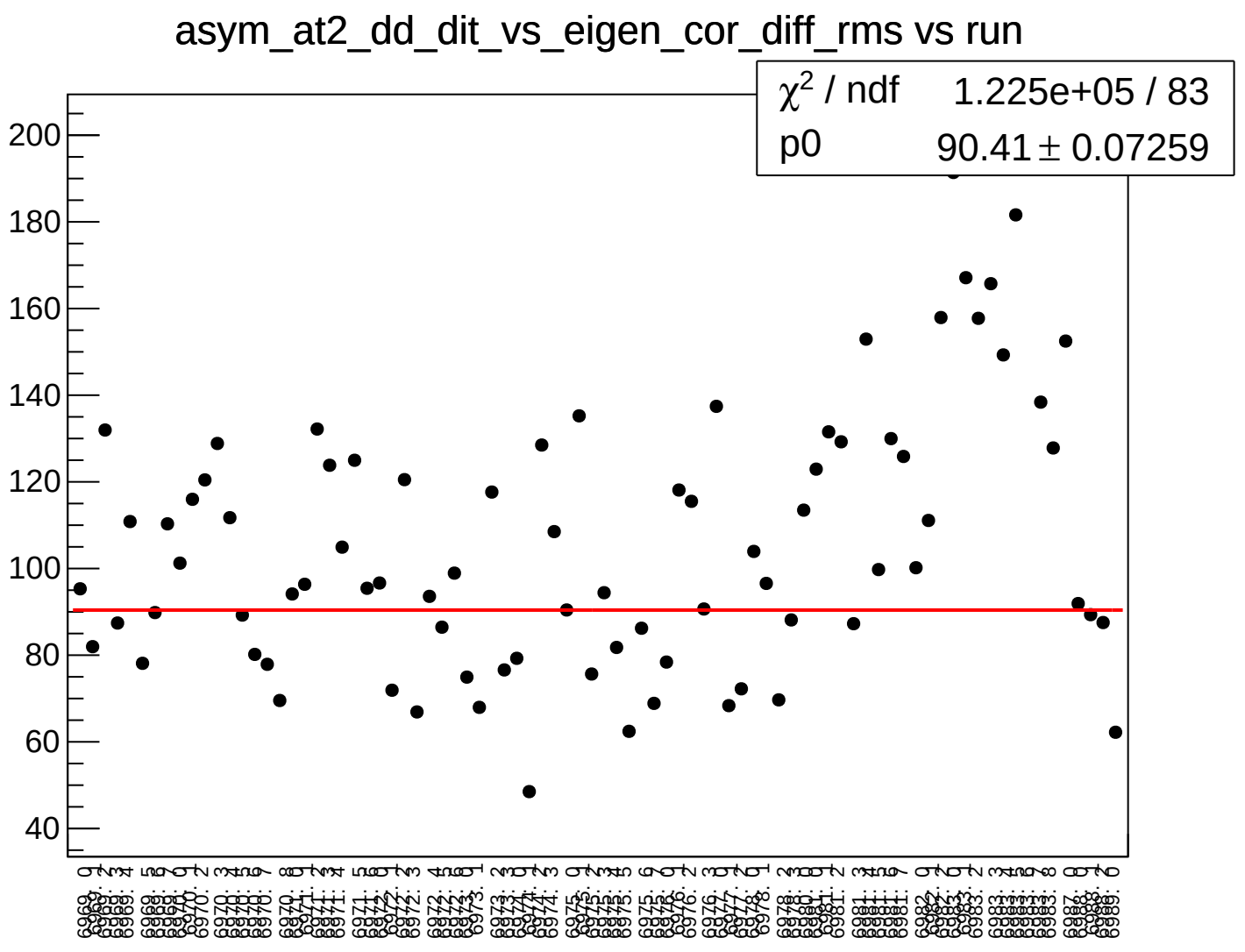

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.85 / 83
p0 0.1141 ± 0.1027
pull
Entries 84
Mean 38.59
Std Dev 0

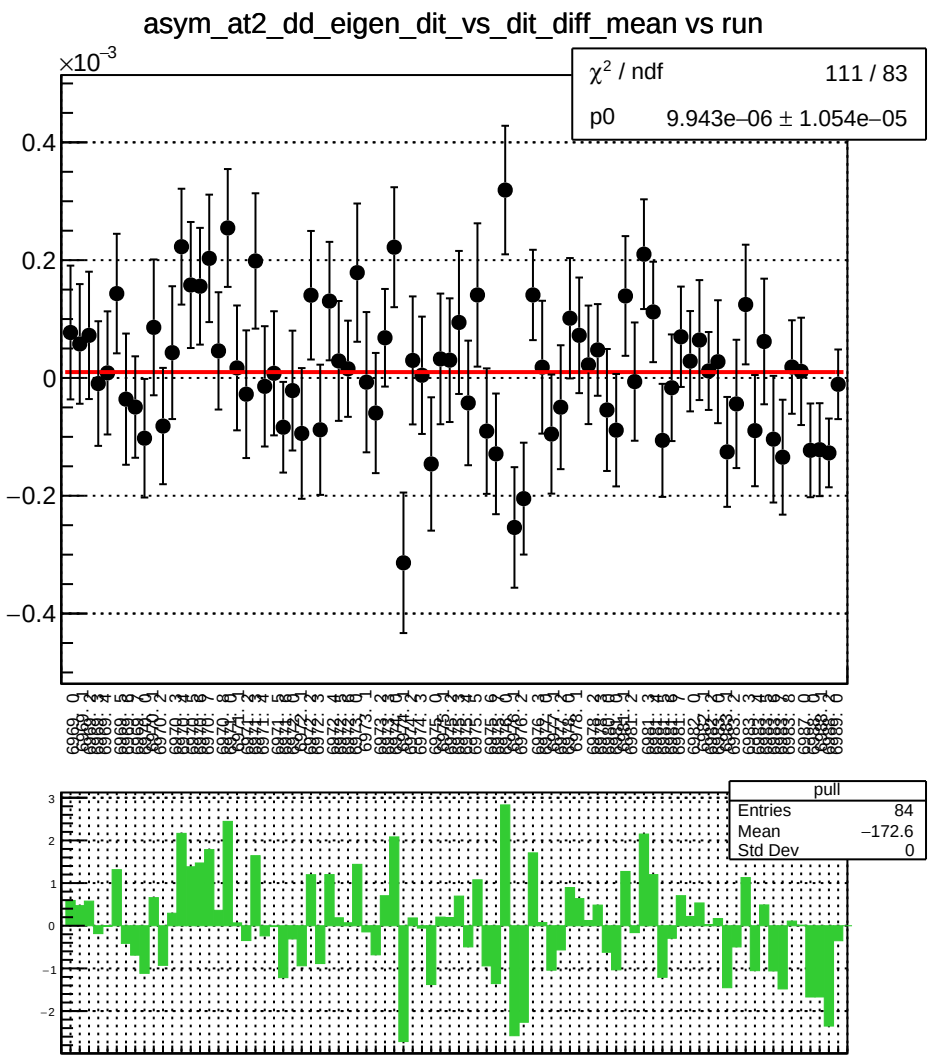

pull1D
Entries 84
Mean 0.03152
Std Dev 1.068

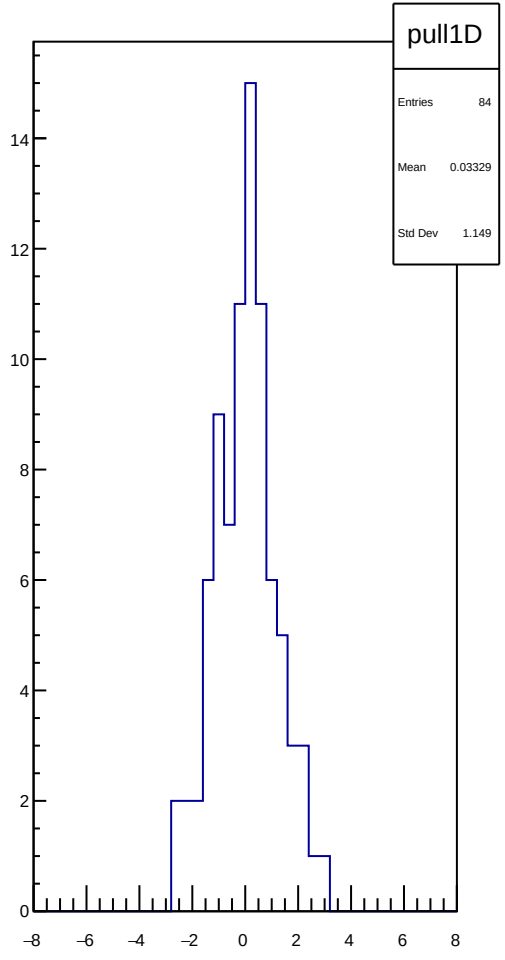

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.225e+05 / 83
p0 90.41 ± 0.07259
200
180
160
140
120
100
80
60
40

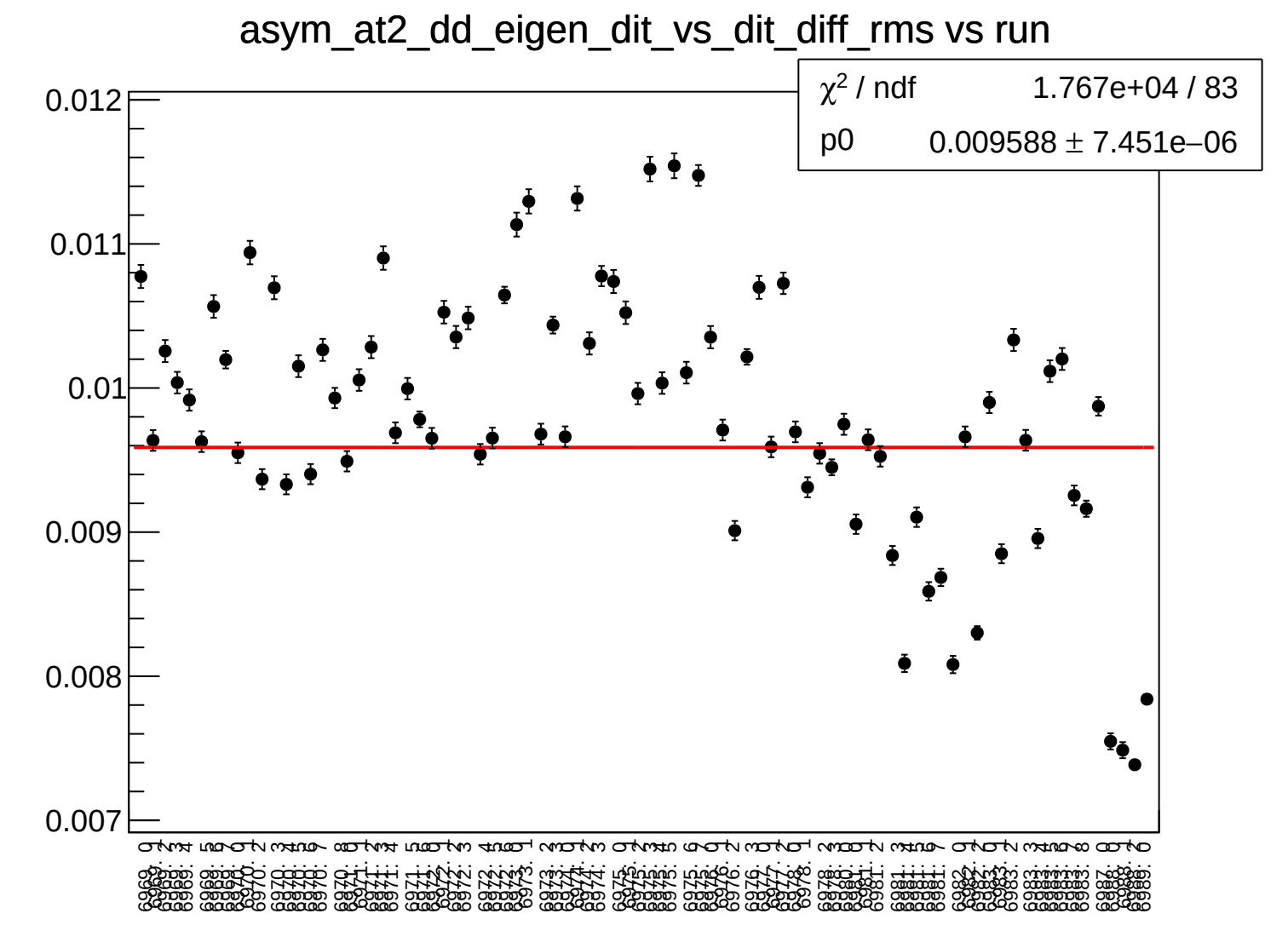

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.85 / 83
p0 0.1141 ± 0.1027
pull
Entries 84
Mean 38.59
Std Dev 0

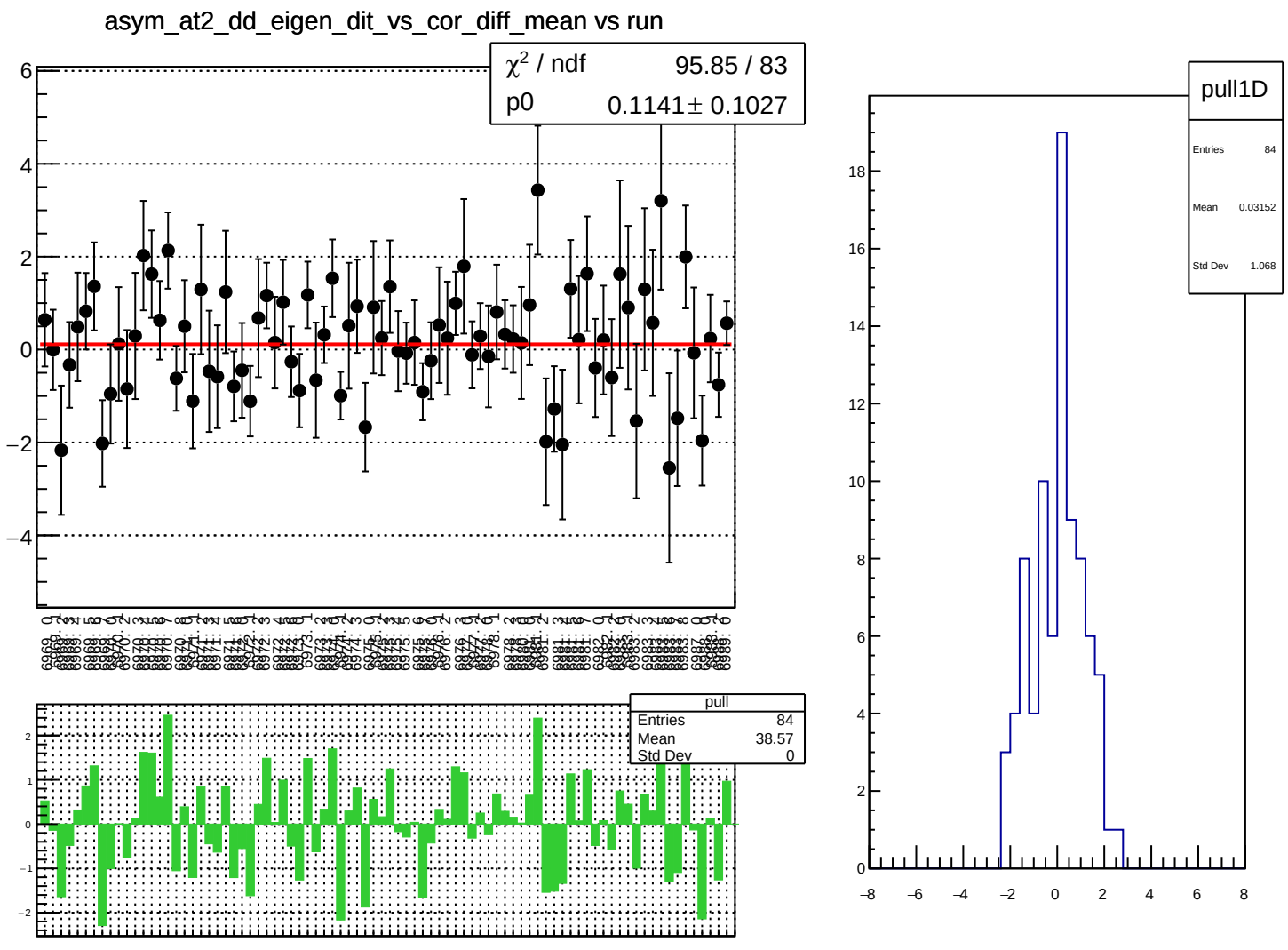

pull1D
Entries 84
Mean 0.03152
Std Dev 1.068

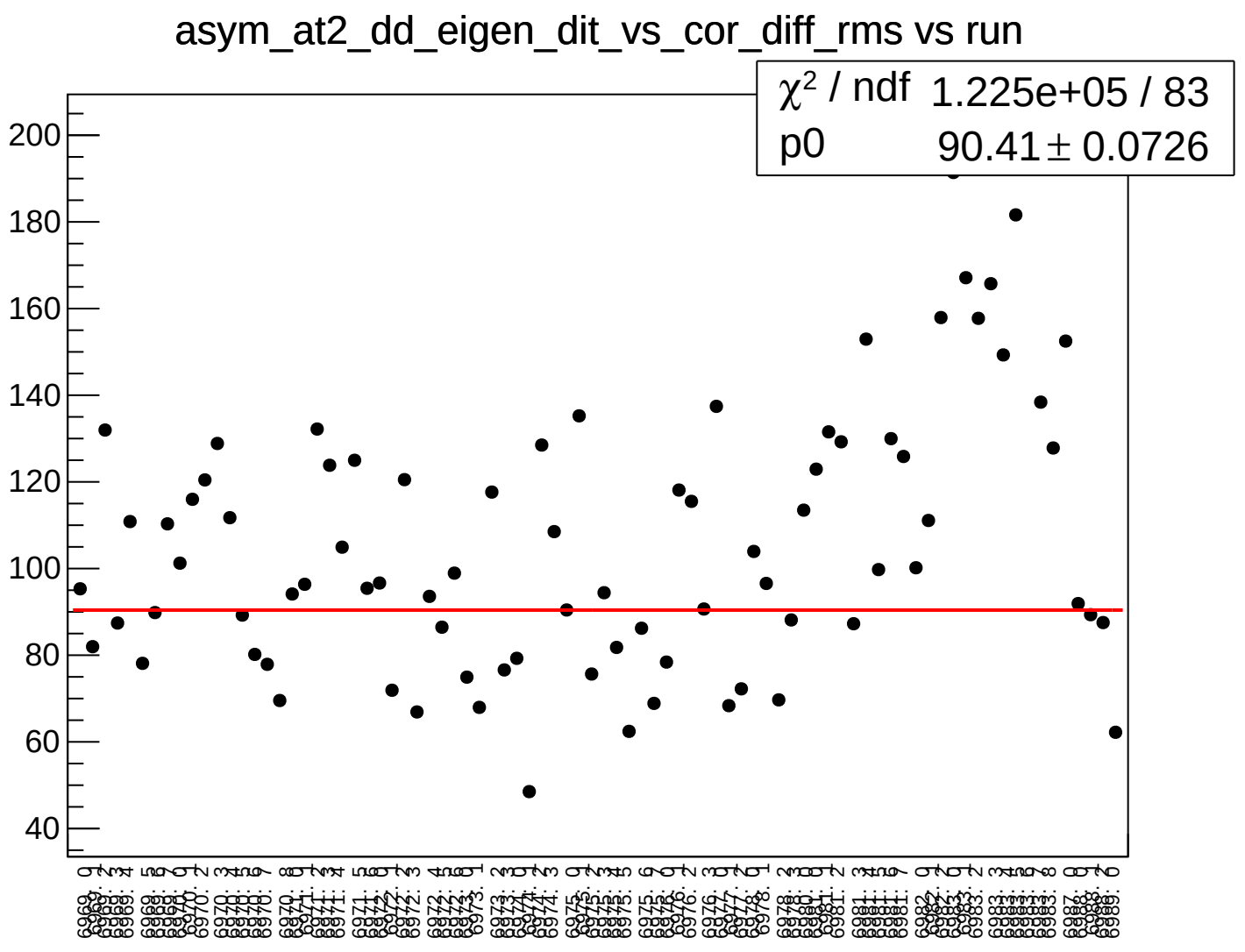

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.225e+05 / 83
p0 90.41 ± 0.07259
200
180
160
140
120
100
80
60
40


asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 111 / 83
p0 9.943e−06 ± 1.054e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 84
Mean −172.6
Std Dev 0
3
2
1
0
−1
−2

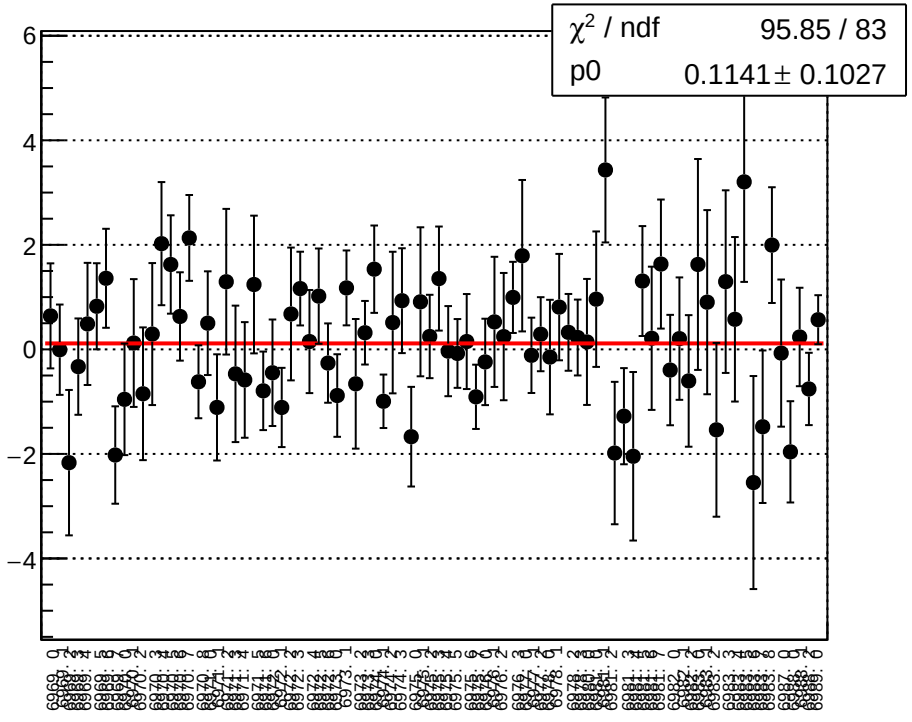

pull1D
Entries 84
Mean 0.03329
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

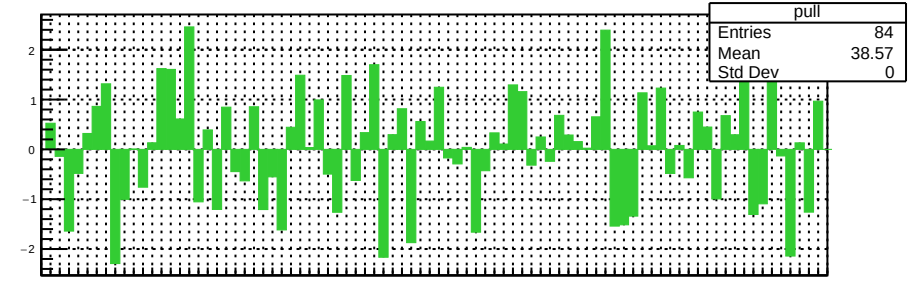

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.767e+04 / 83
p0 0.009588 ± 7.451e−06
0.012
0.011
0.01
0.009
0.008
0.007

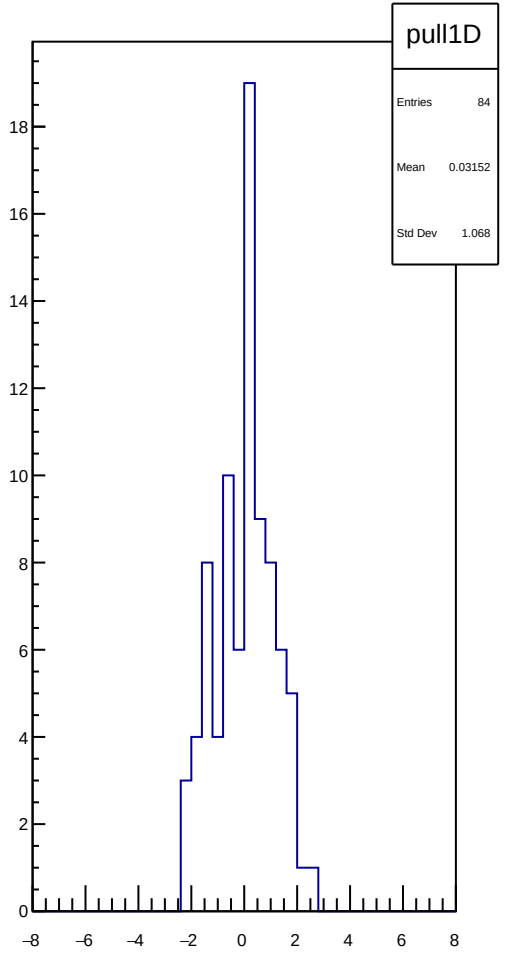

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.85 / 83
p0 0.1141 ± 0.1027
pull
Entries 84
Mean 38.57
Std Dev 0
pull1D
Entries 84
Mean 0.03152
Std Dev 1.068

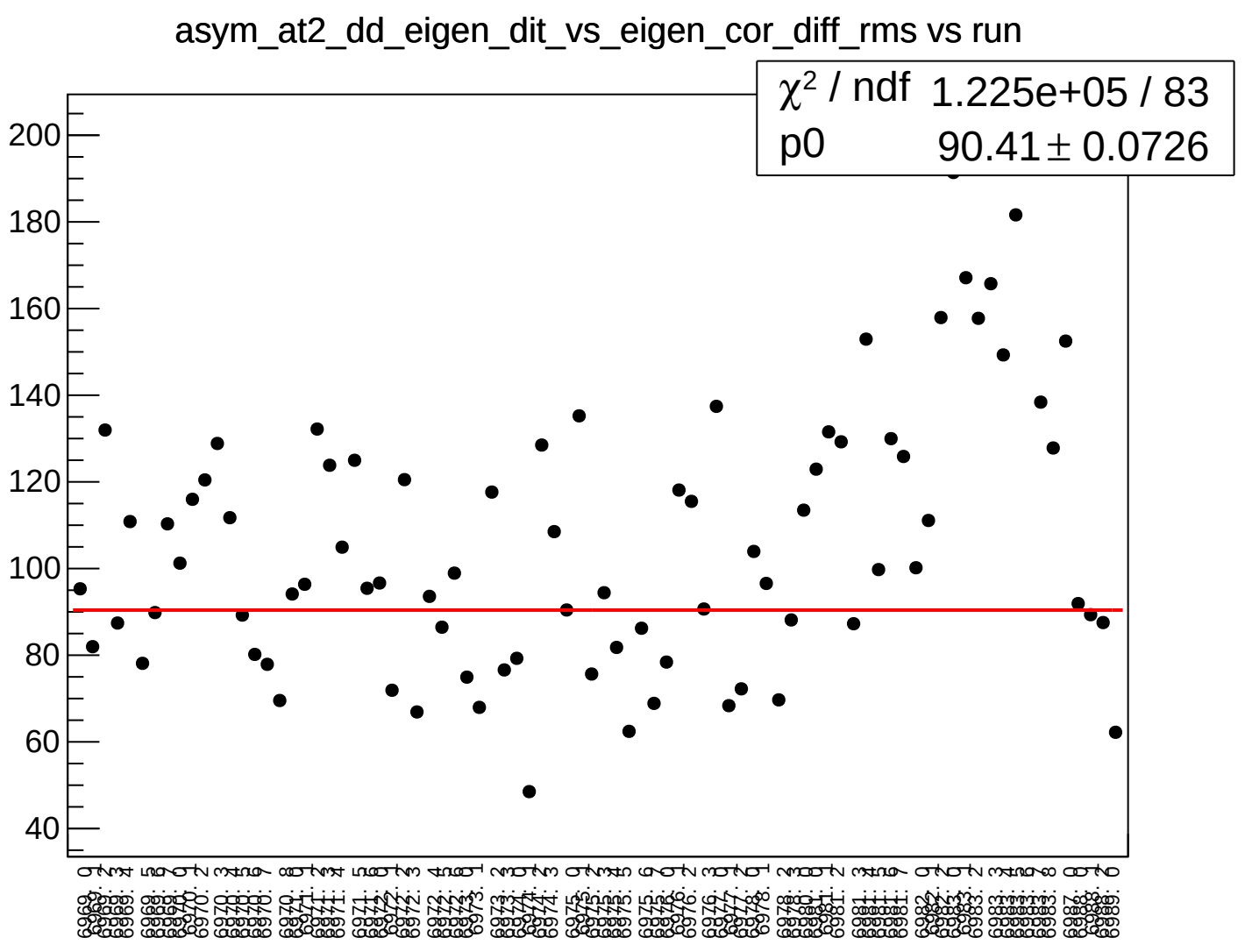

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.225e+05 / 83
p0 90.41 ± 0.0726
200
180
160
140
120
100
80
60
40

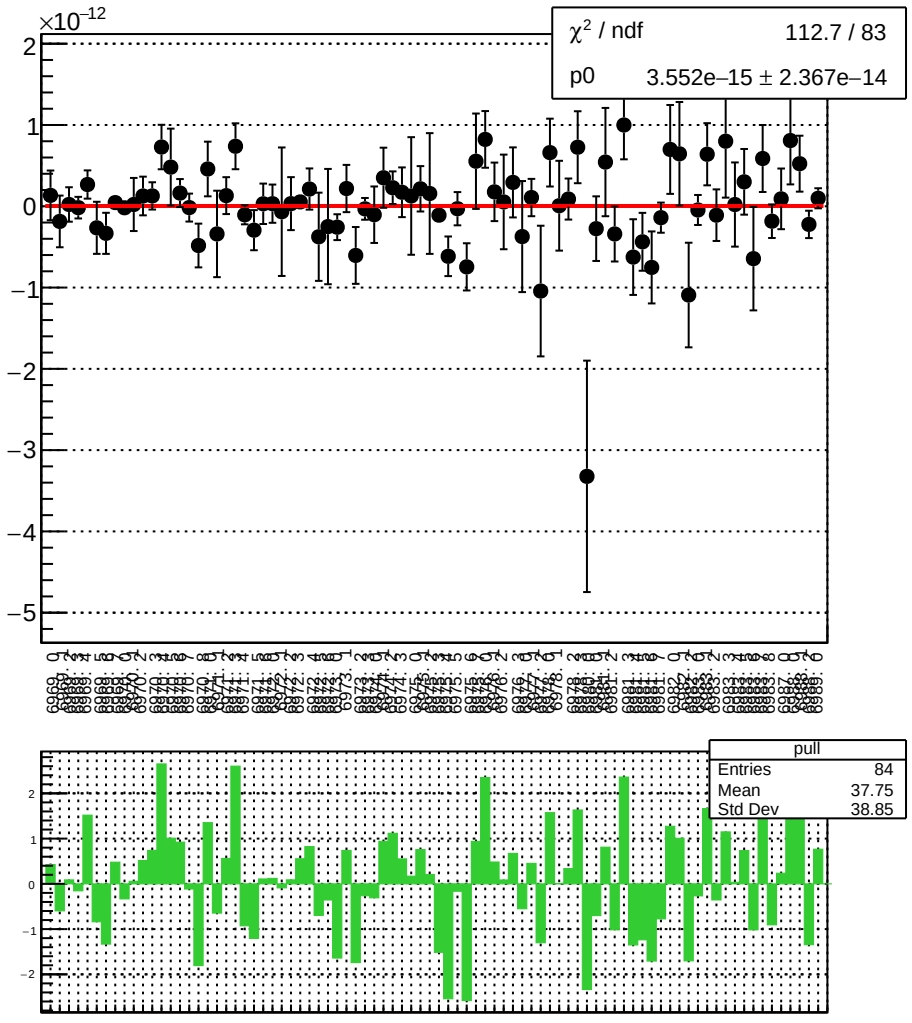
asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

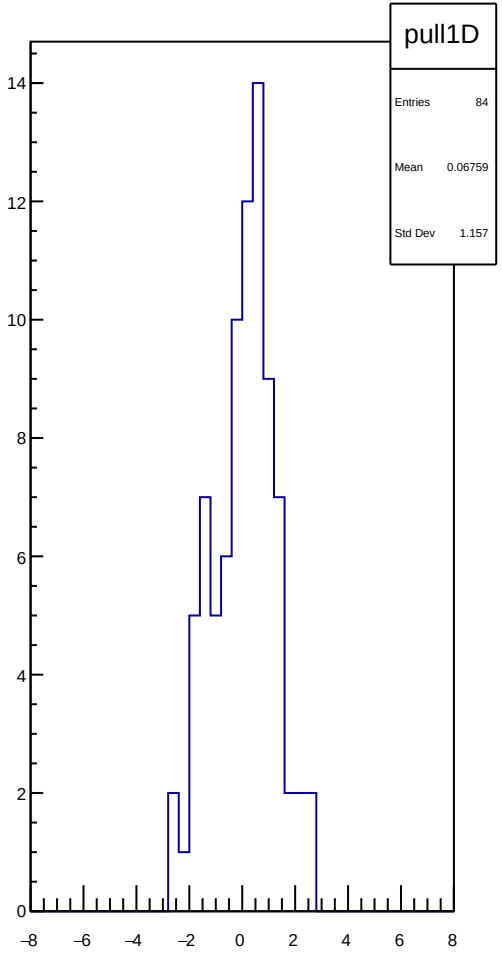


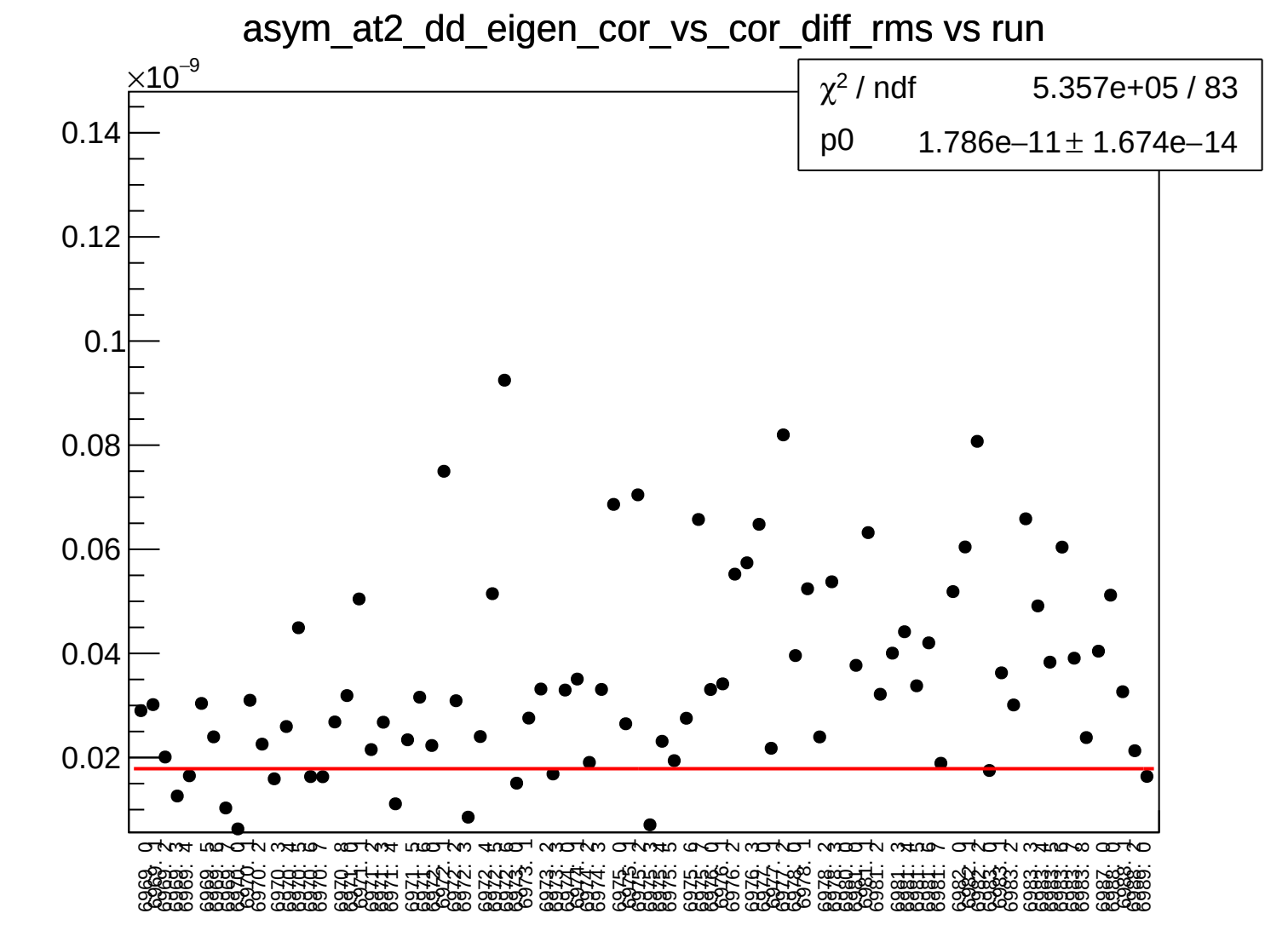


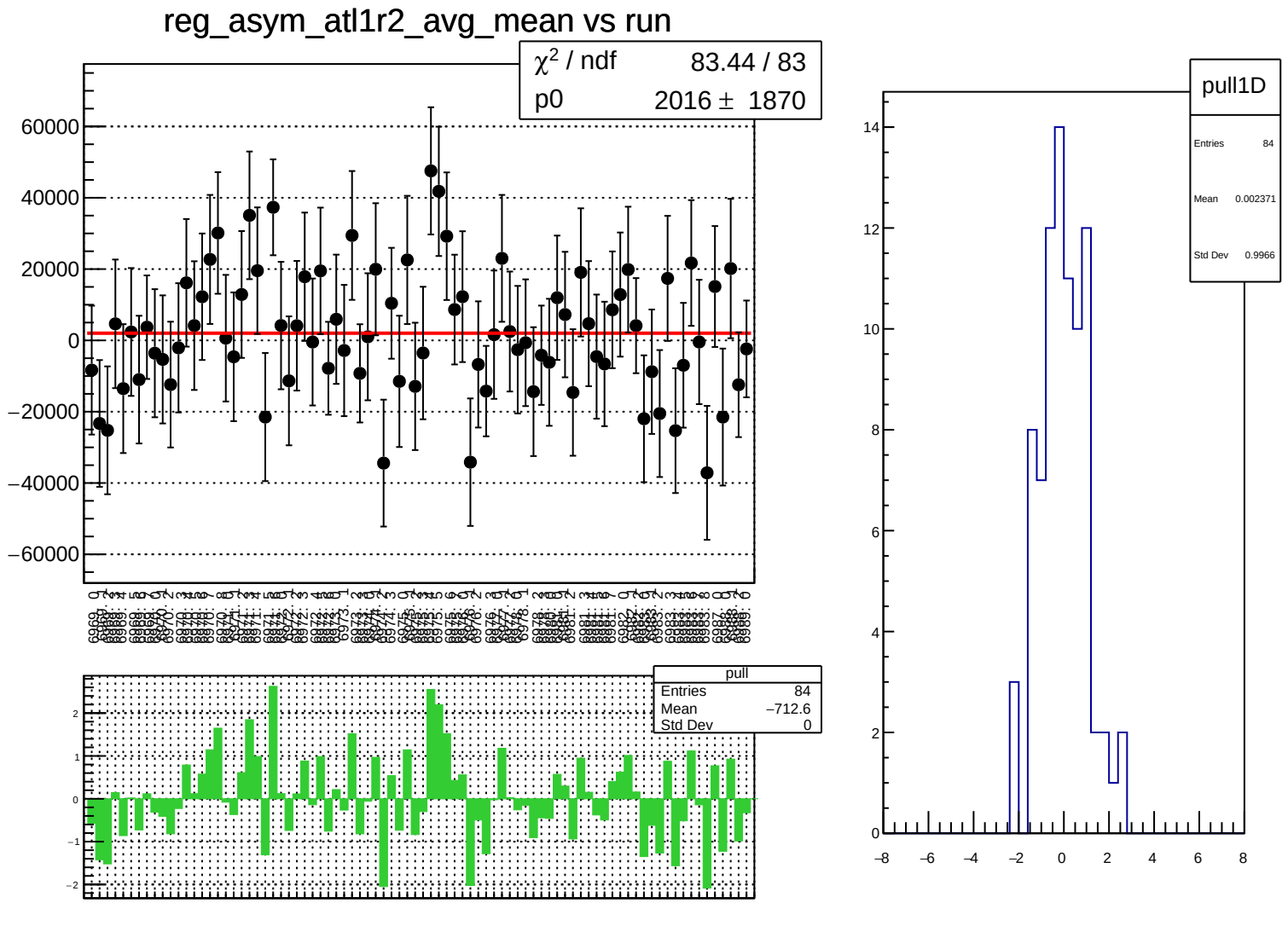


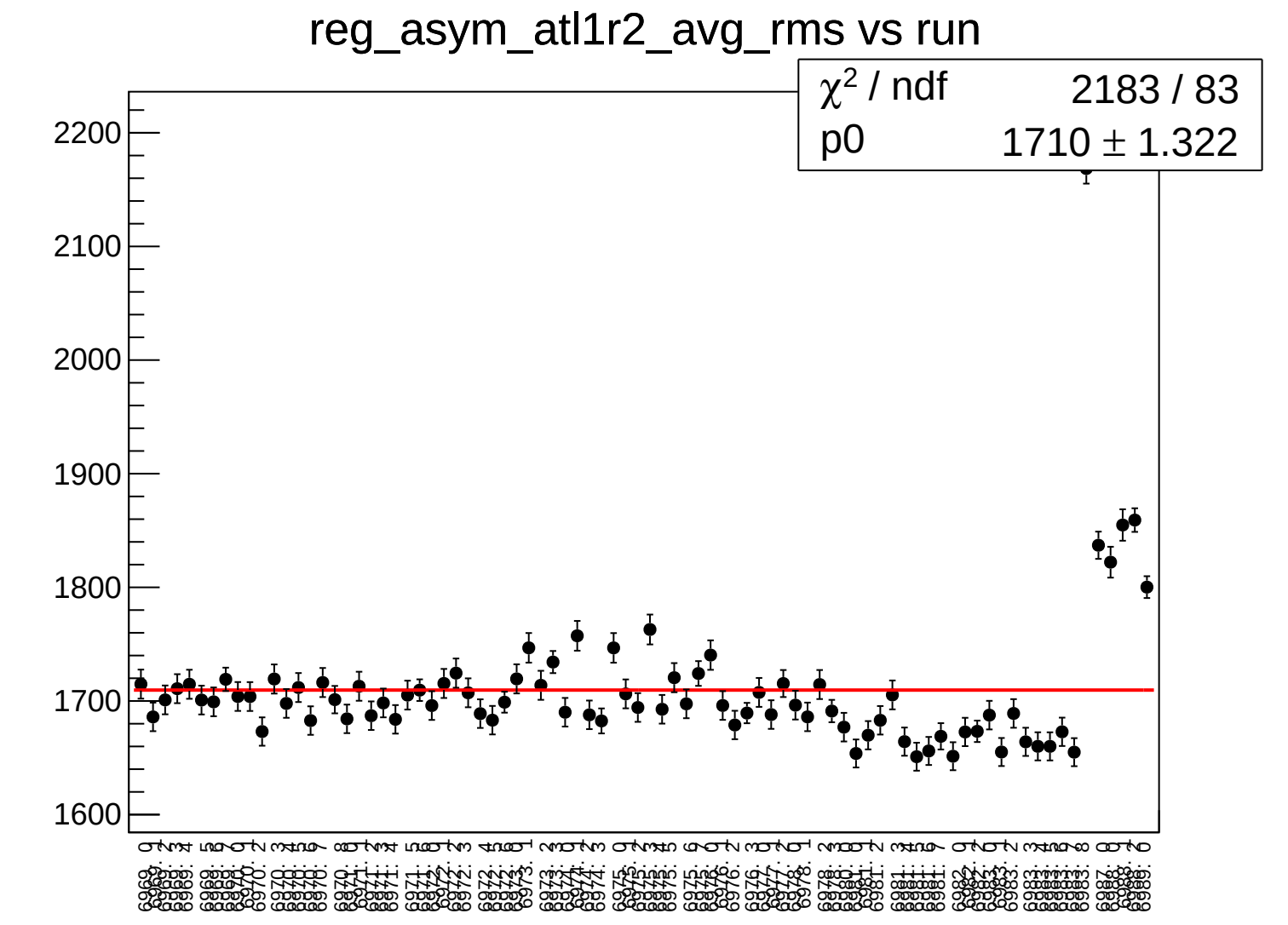

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.225e+05 / 83
p0 90.41 ± 0.0726
200
180
160
140
120
100
80
60
40

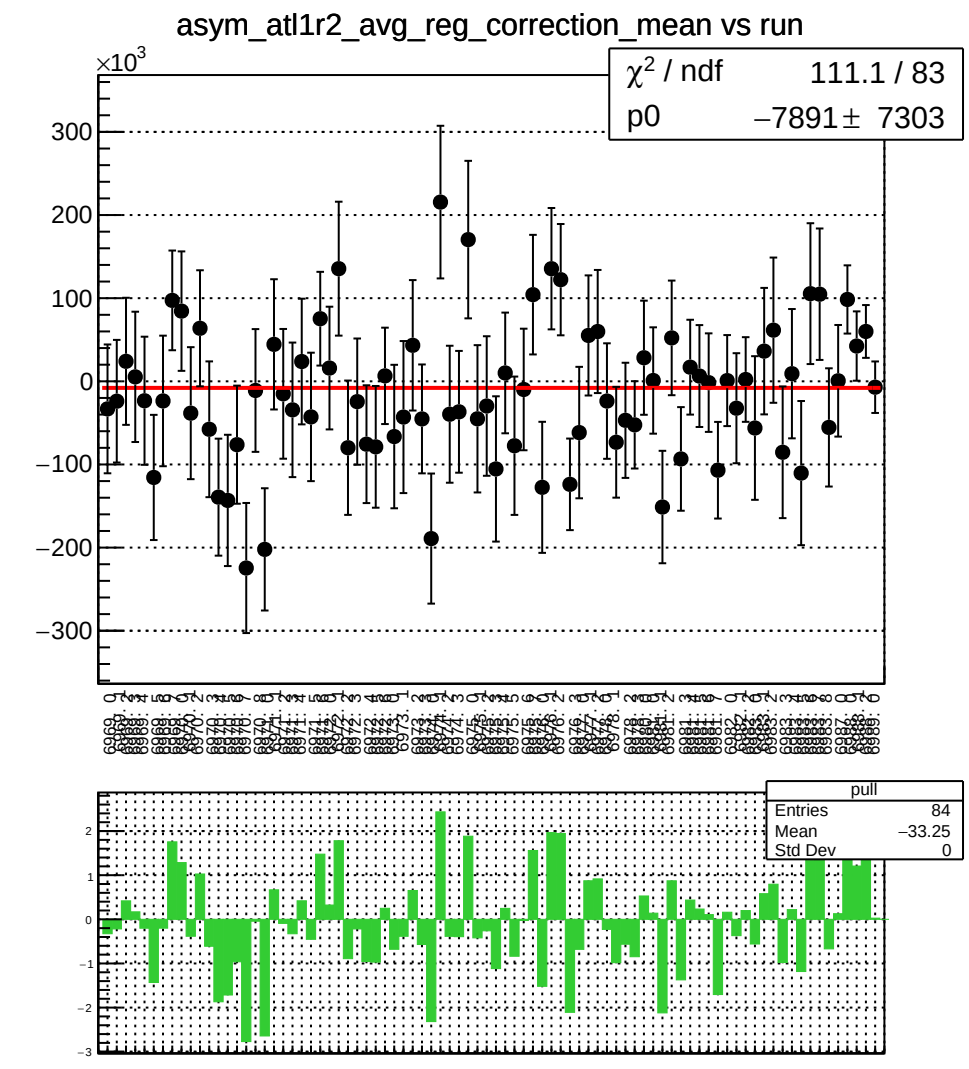

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.7 / 83
p0 3.552e−15 ± 2.367e−14
pull
Entries 84
Mean 37.75
Std Dev 38.85

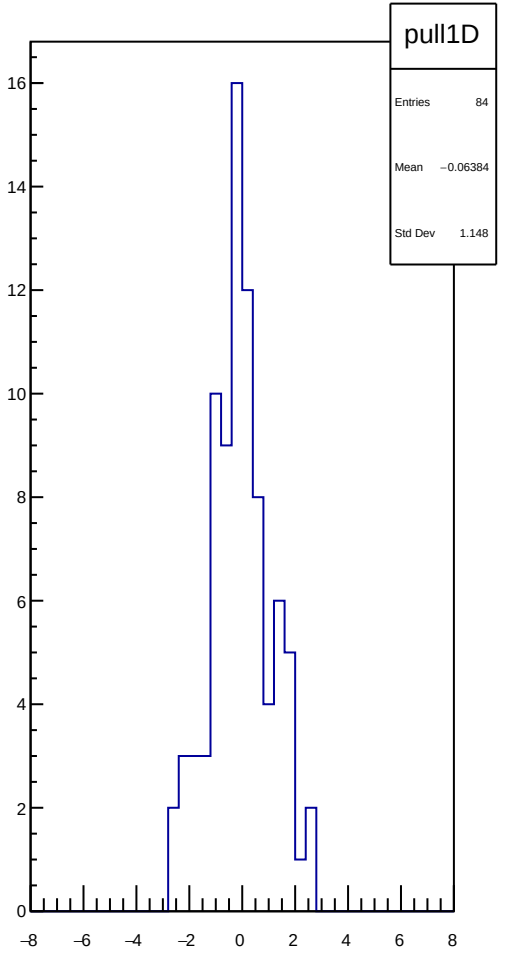

pull1D
Entries 84
Mean 0.06759
Std Dev 1.157

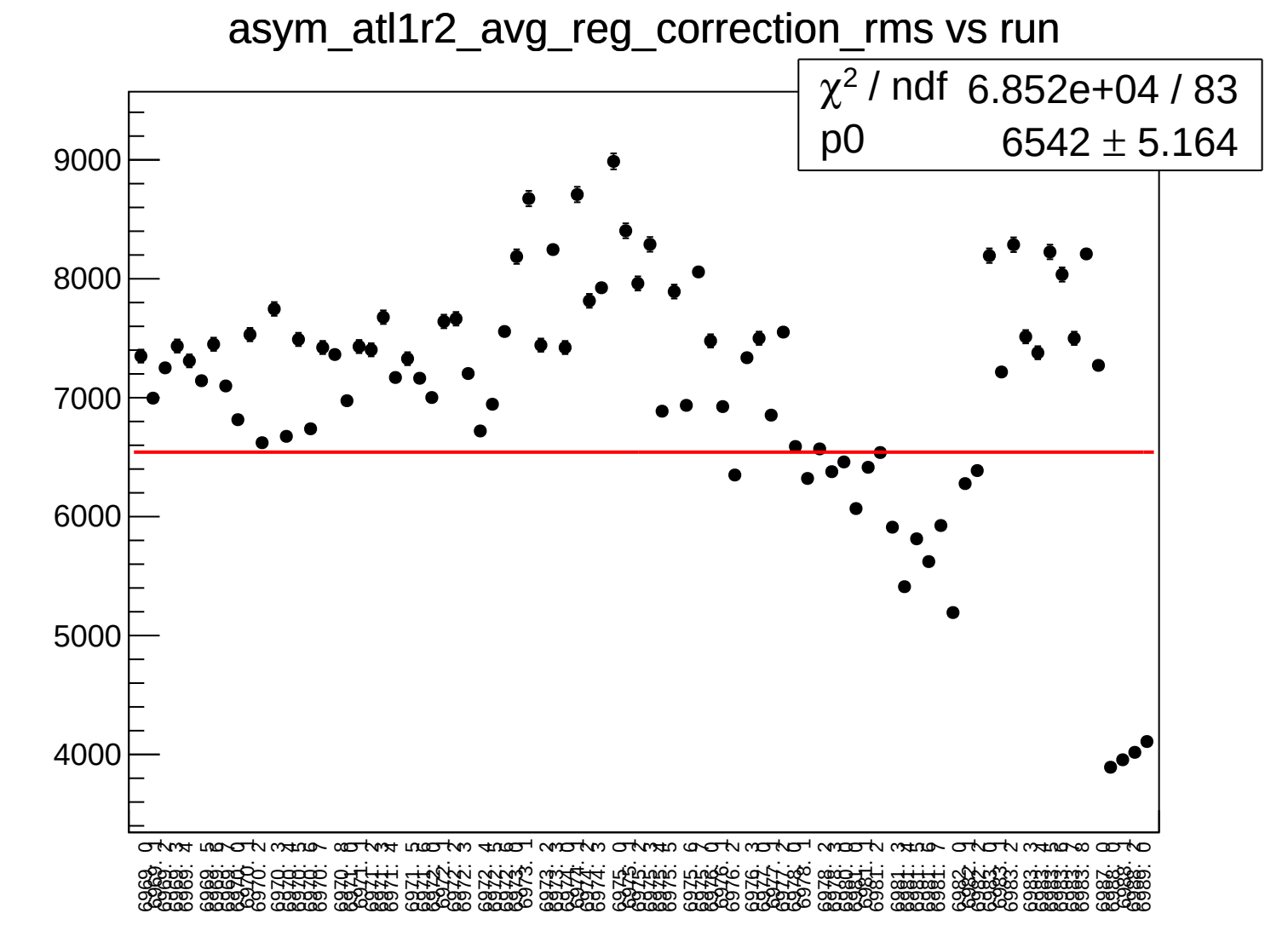

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.357e+05 / 83
p0 1.786e−11 ± 1.674e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

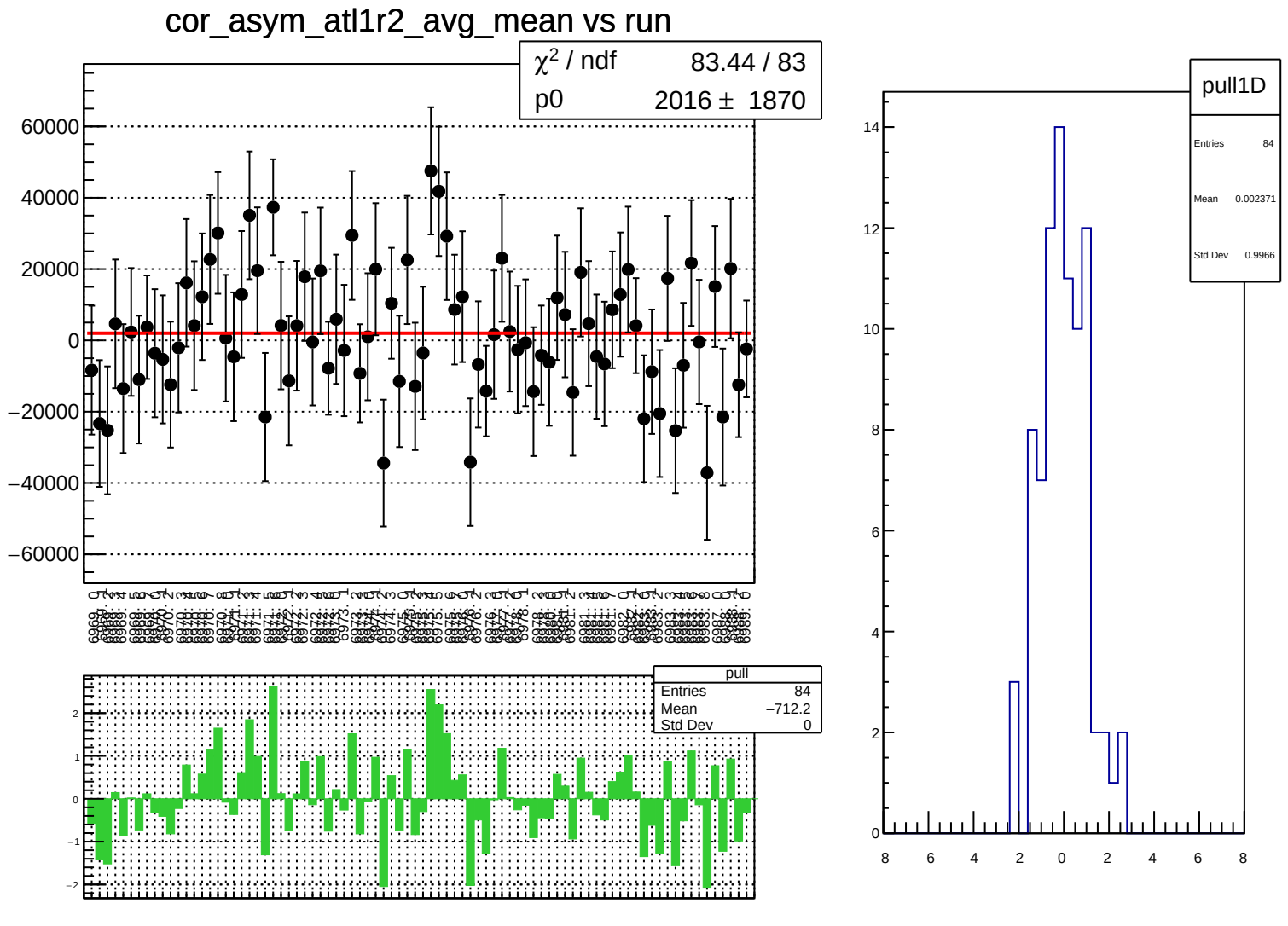

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 83.44 / 83
p0 2016 ± 1870
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −712.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.002371
Std Dev 0.9966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

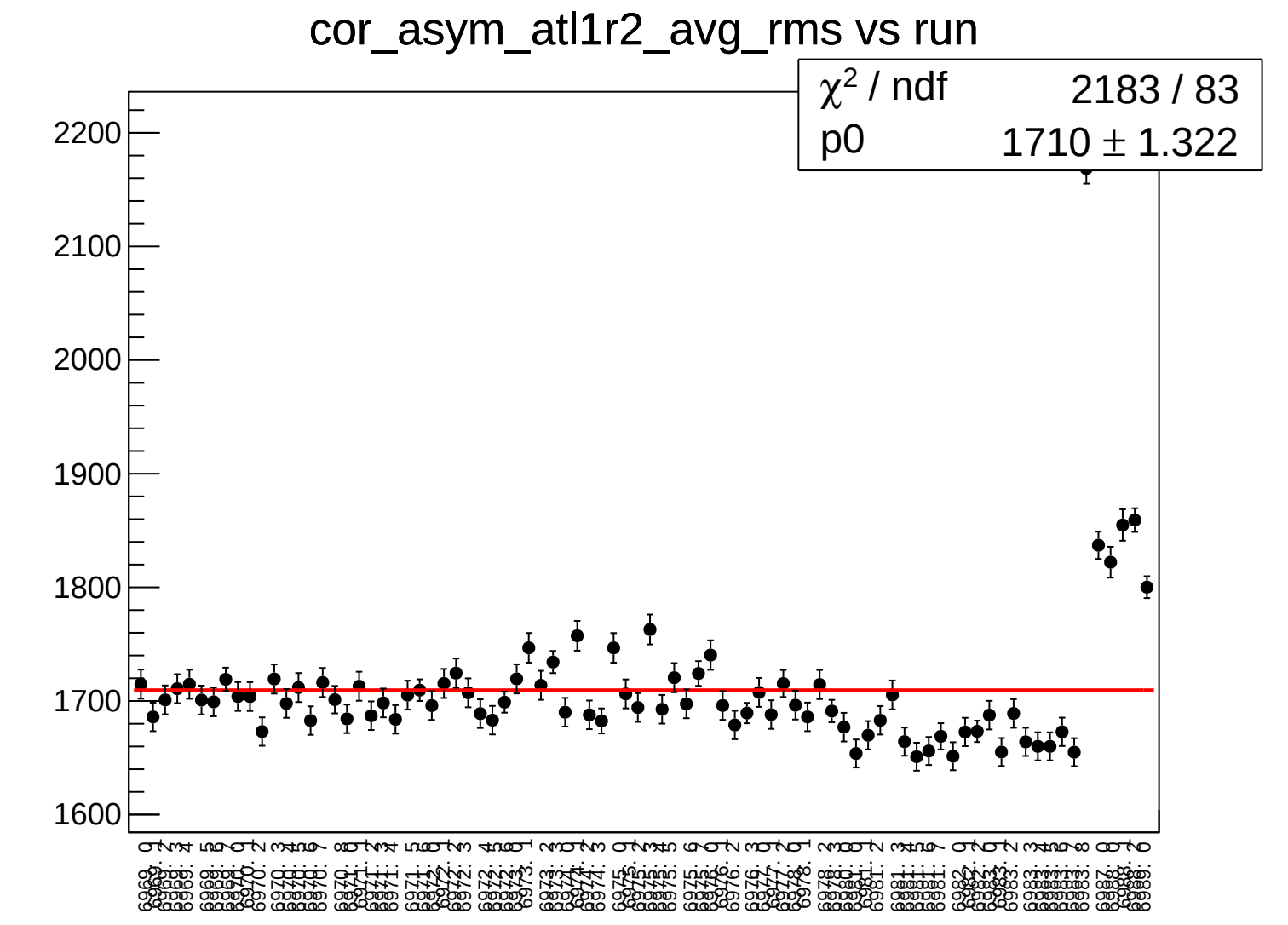

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 2183 / 83
p0 1710 ± 1.322
2200
2100
2000
1900
1800
1700
1600

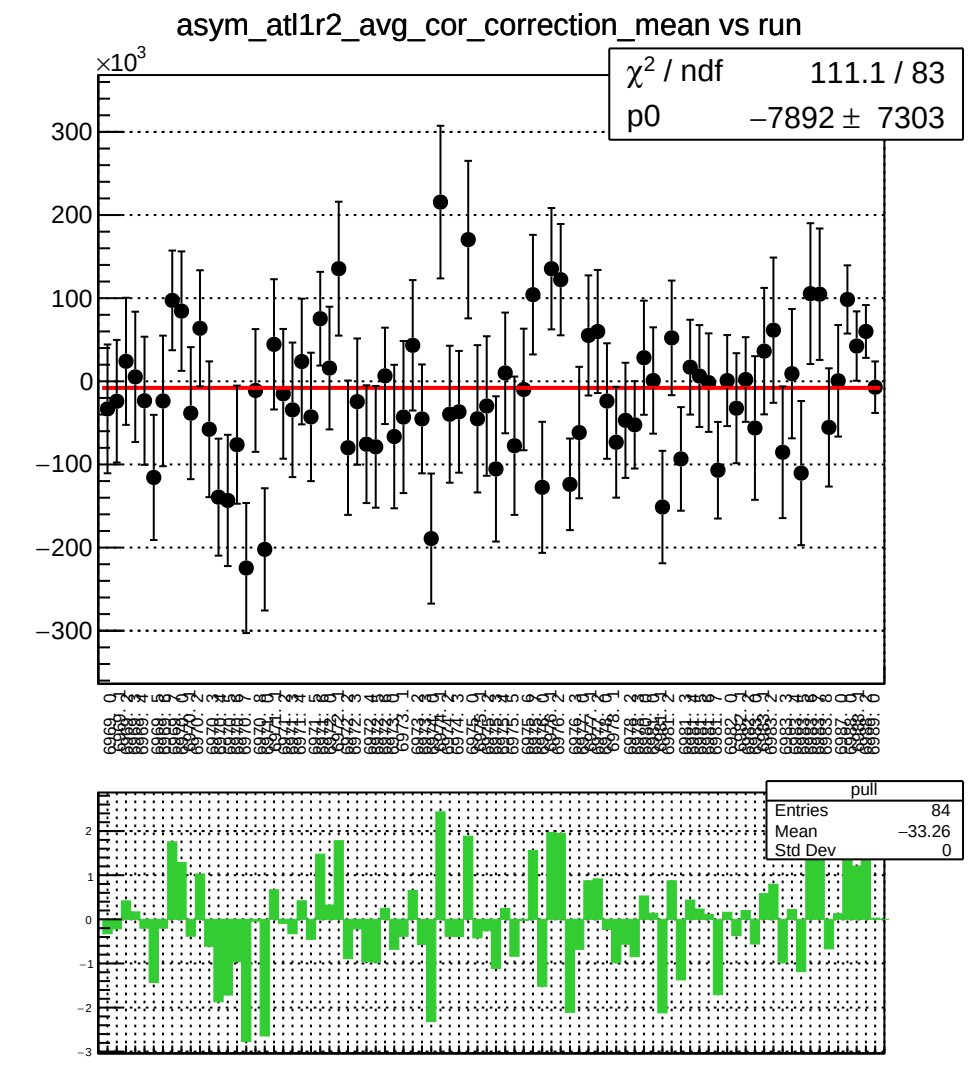

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 111.1 / 83
p0 −7891 ± 7303
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −33.25
Std Dev 0
2
1
0
−1
−2
−3

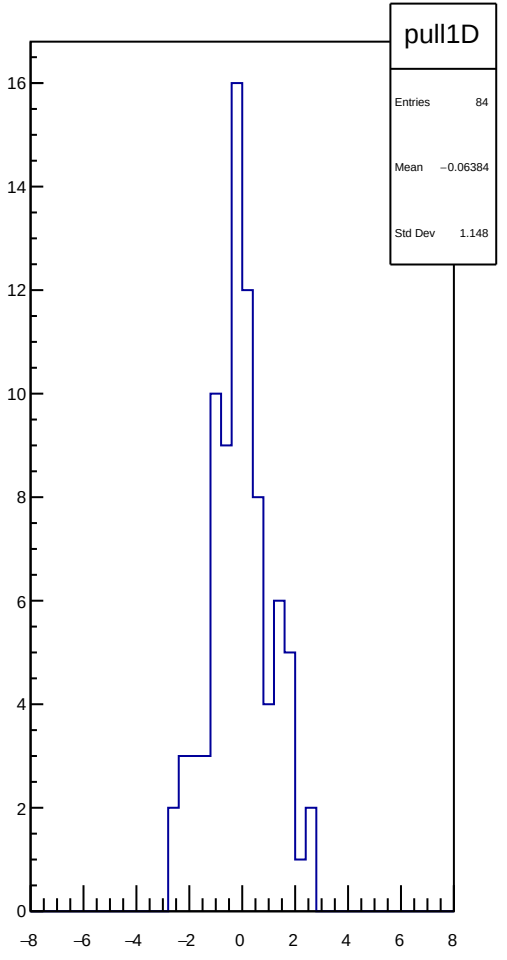

pull1D
Entries 84
Mean −0.06384
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

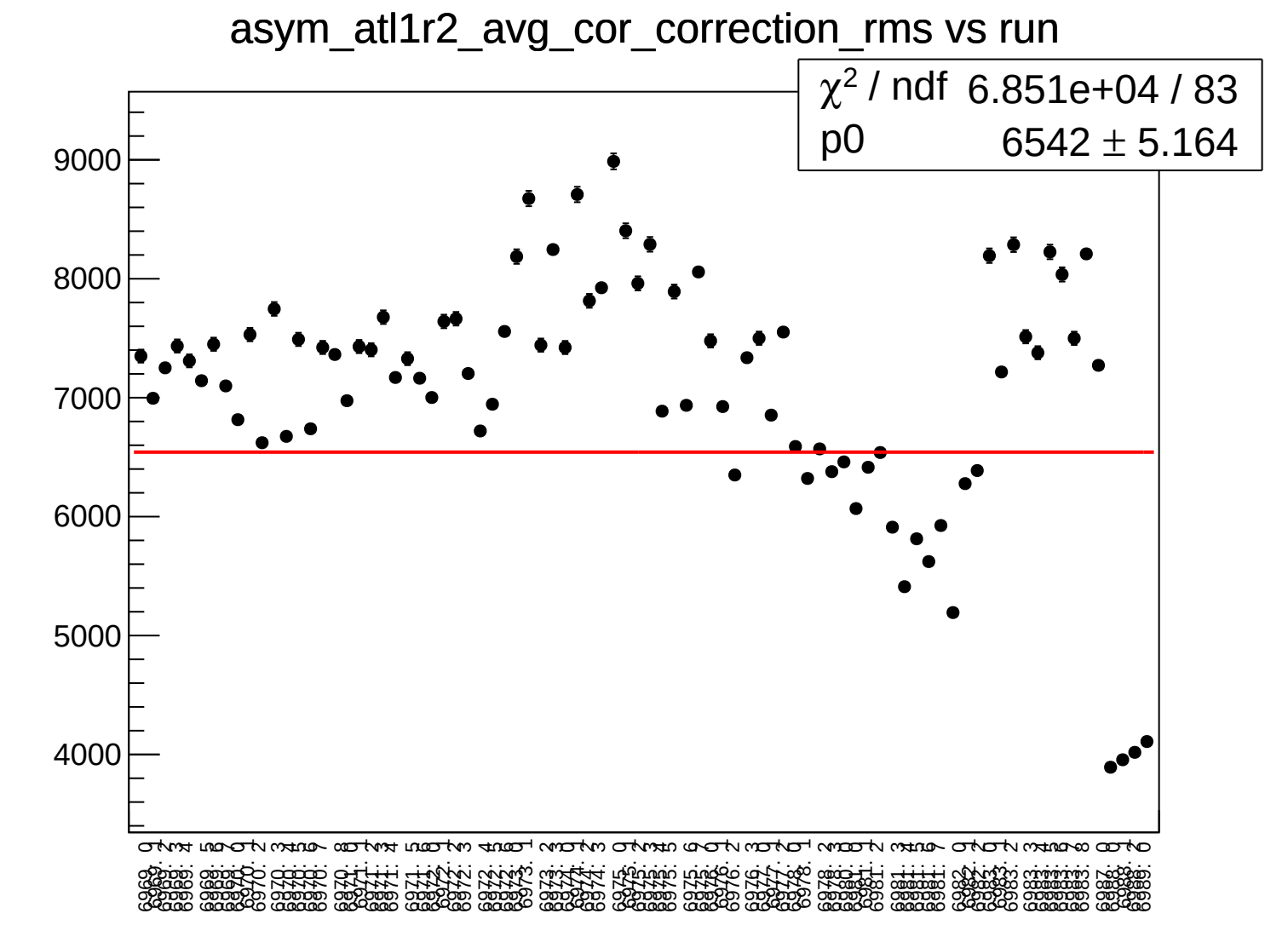

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 6.852e+04 / 83
p0 6542 ± 5.164
9000
8000
7000
6000
5000
4000

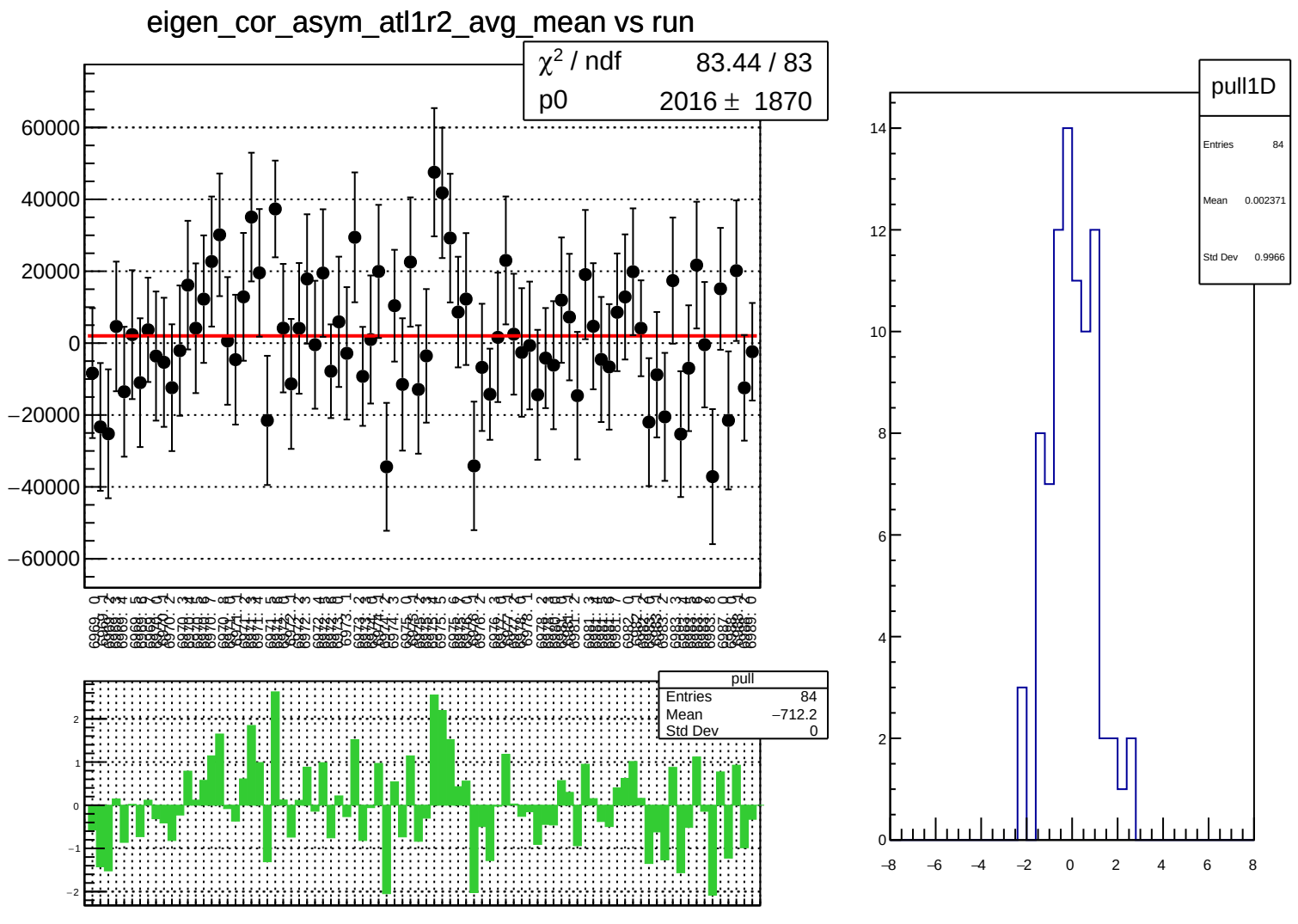

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 83.44 / 83
p0 2016 ± 1870
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −712.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.002371
Std Dev 0.9966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

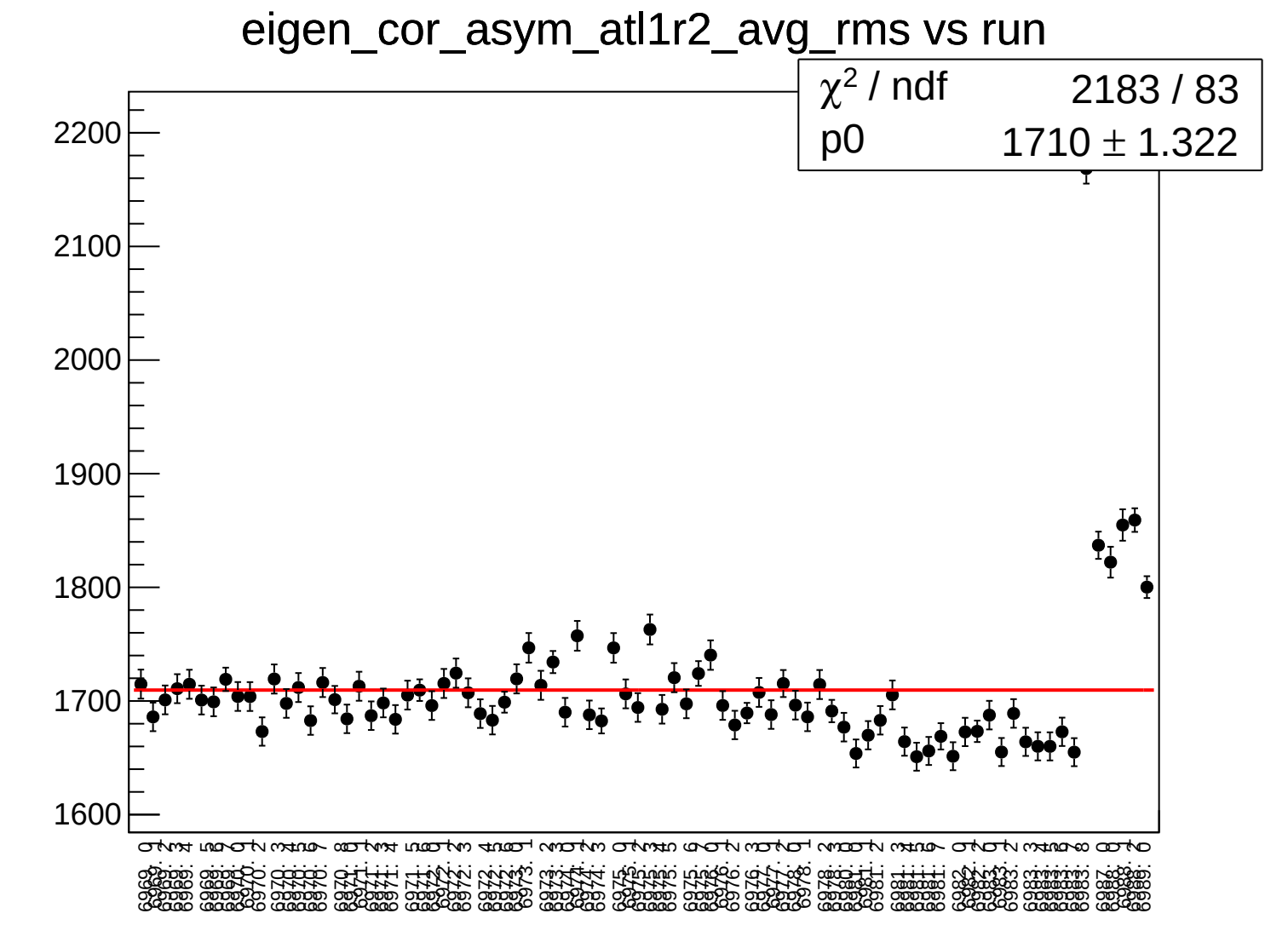

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 2183 / 83
p0 1710 ± 1.322
2200
2100
2000
1900
1800
1700
1600

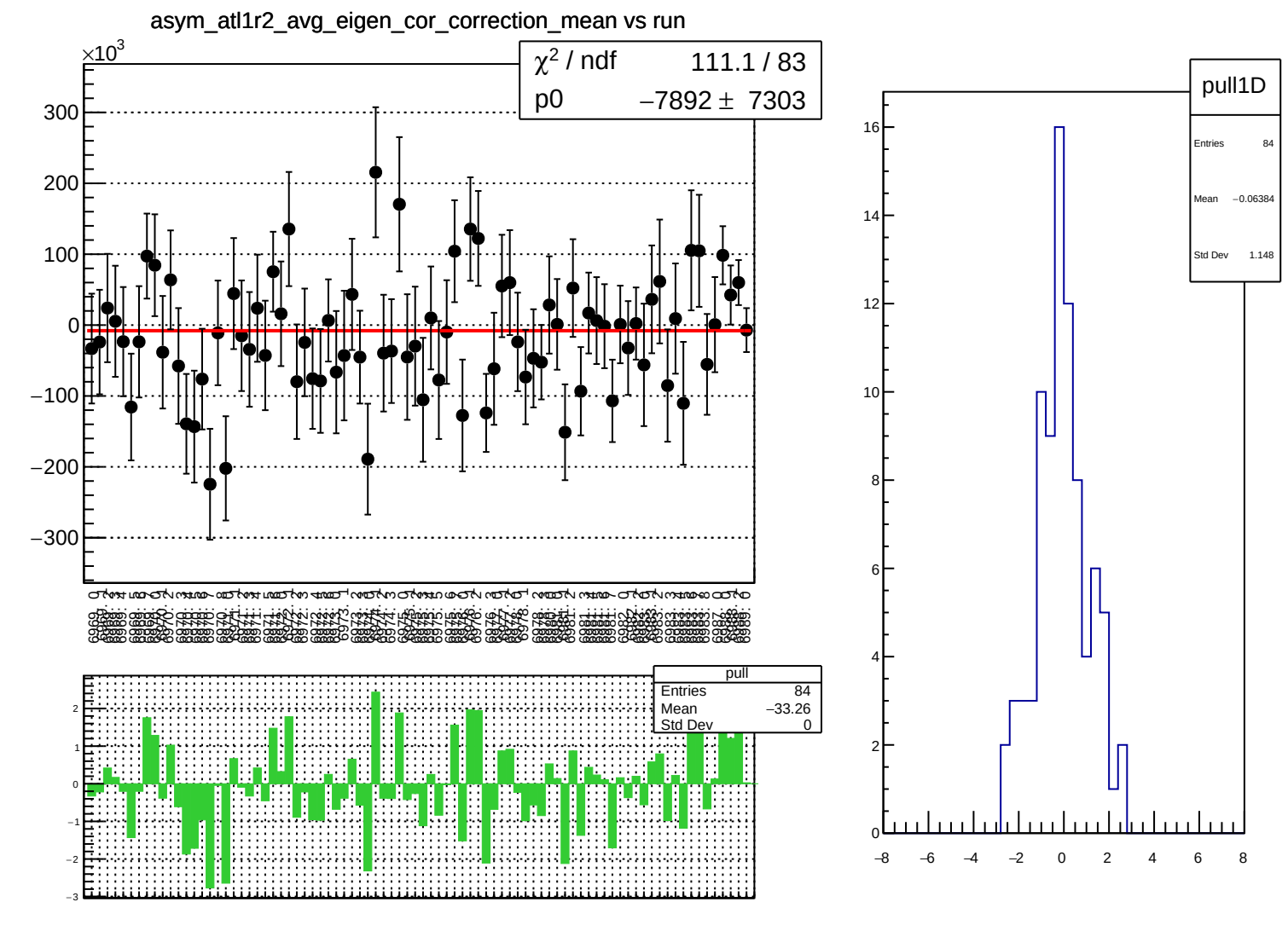

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 111.1 / 83
p0 −7892 ± 7303
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −33.26
Std Dev 0
2
1
0
−1
−2
−3

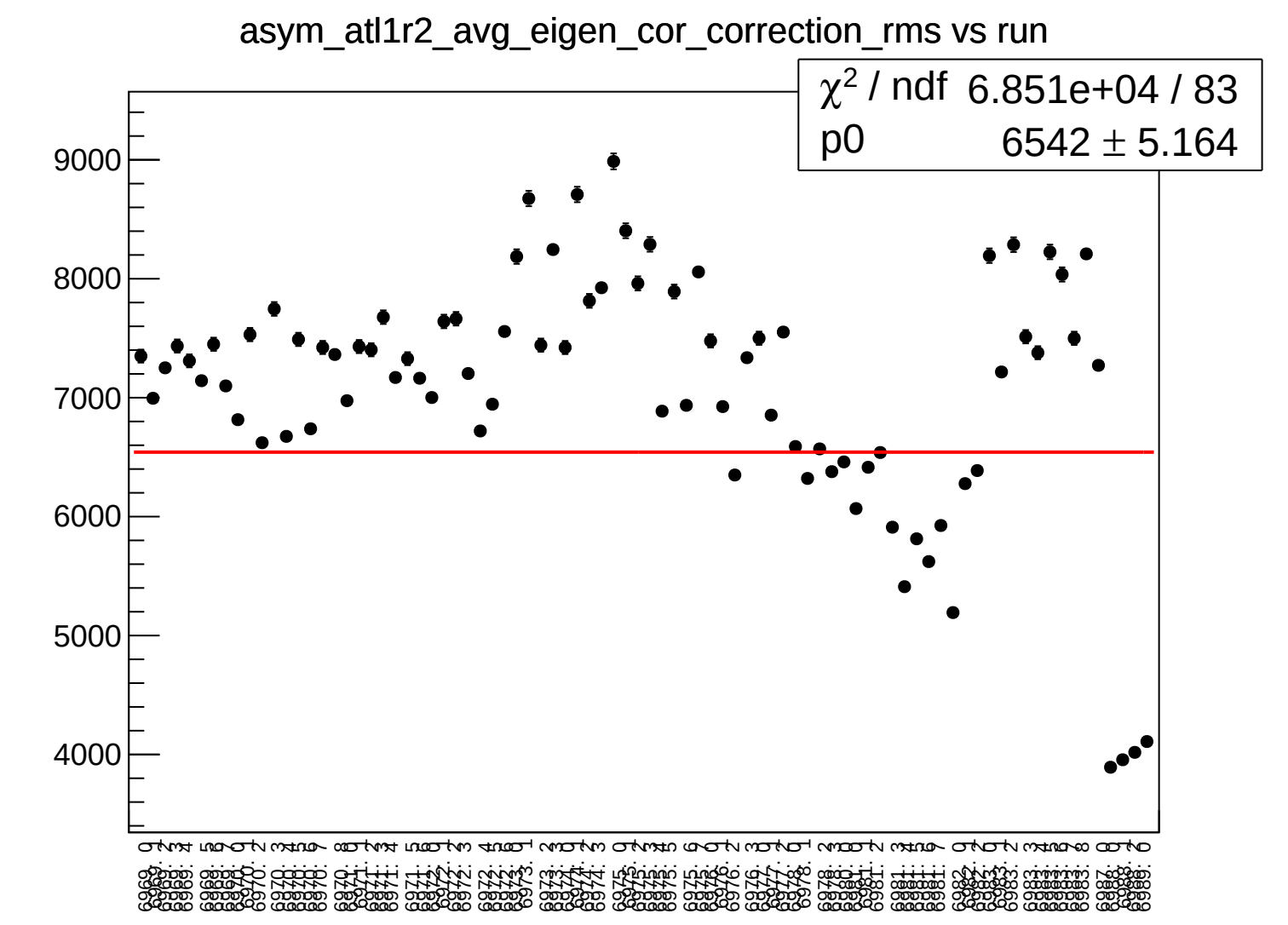

pull1D
Entries 84
Mean −0.06384
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

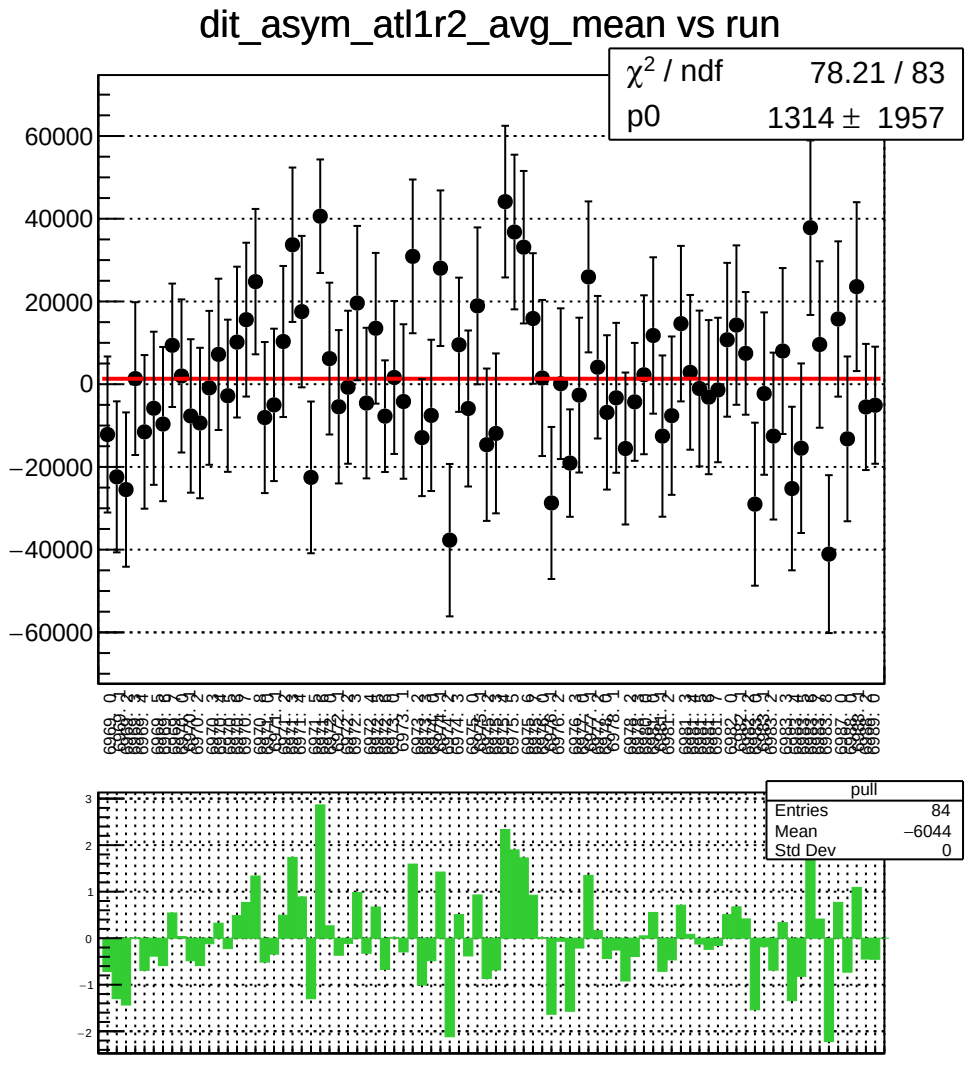

asym_atl1r2_avg_cor_correction_rms vs run
χ^2 / ndf 6.851e+04 / 83
p0 6542 ± 5.164
9000
8000
7000
6000
5000
4000

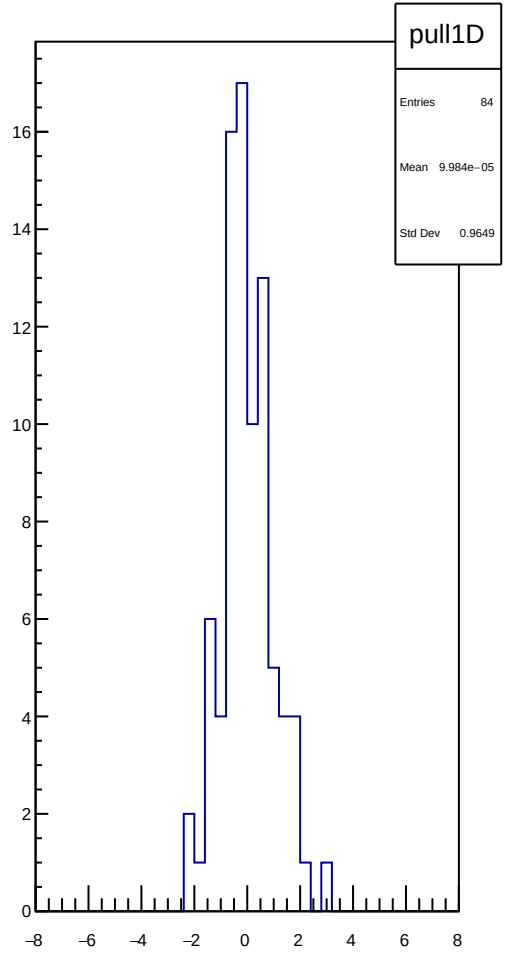

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 83.44 / 83
p0 2016 ± 1870
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −712.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.002371
Std Dev 0.9966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

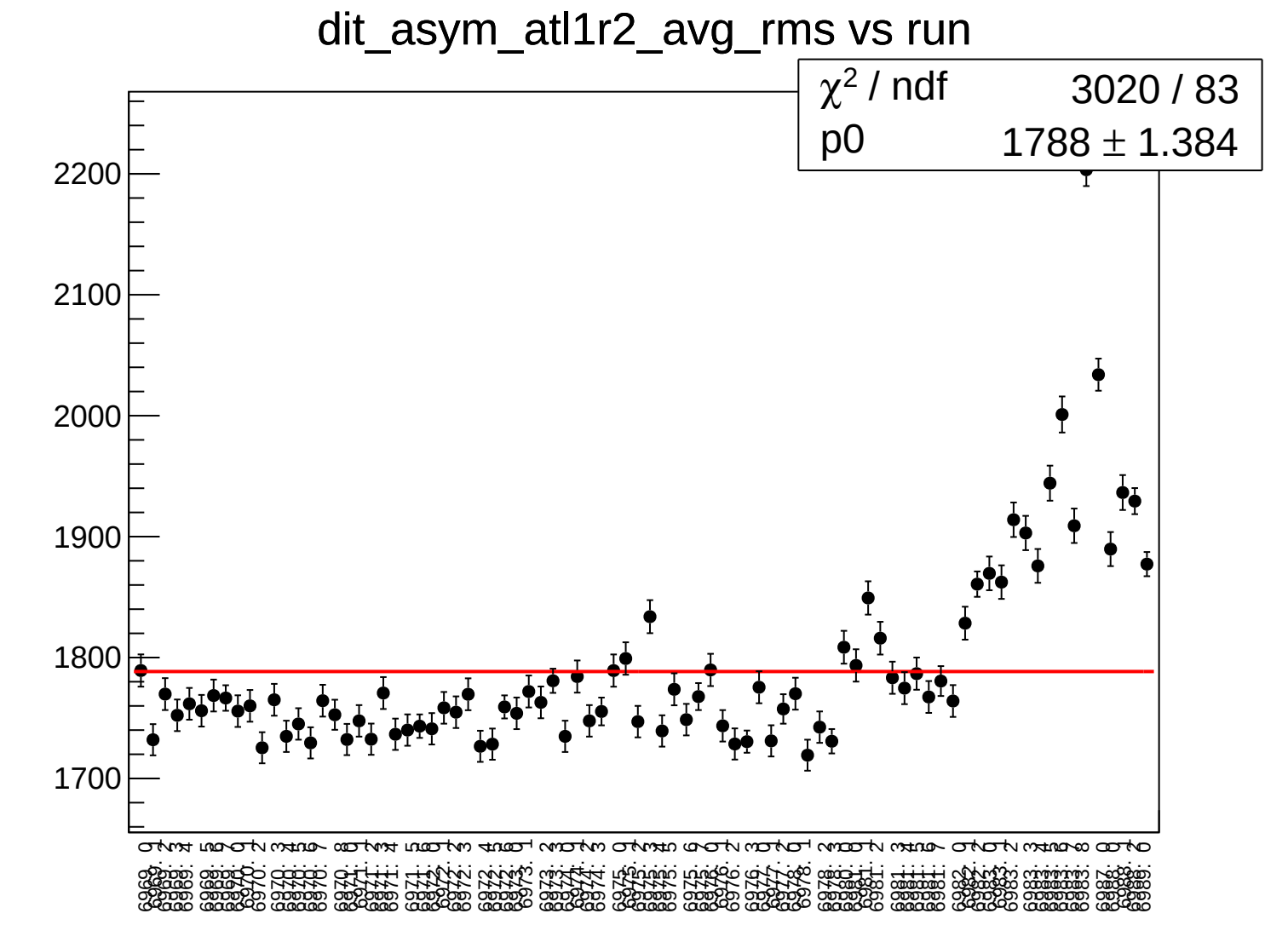

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 2183 / 83
p0 1710 ± 1.322
2200
2100
2000
1900
1800
1700
1600

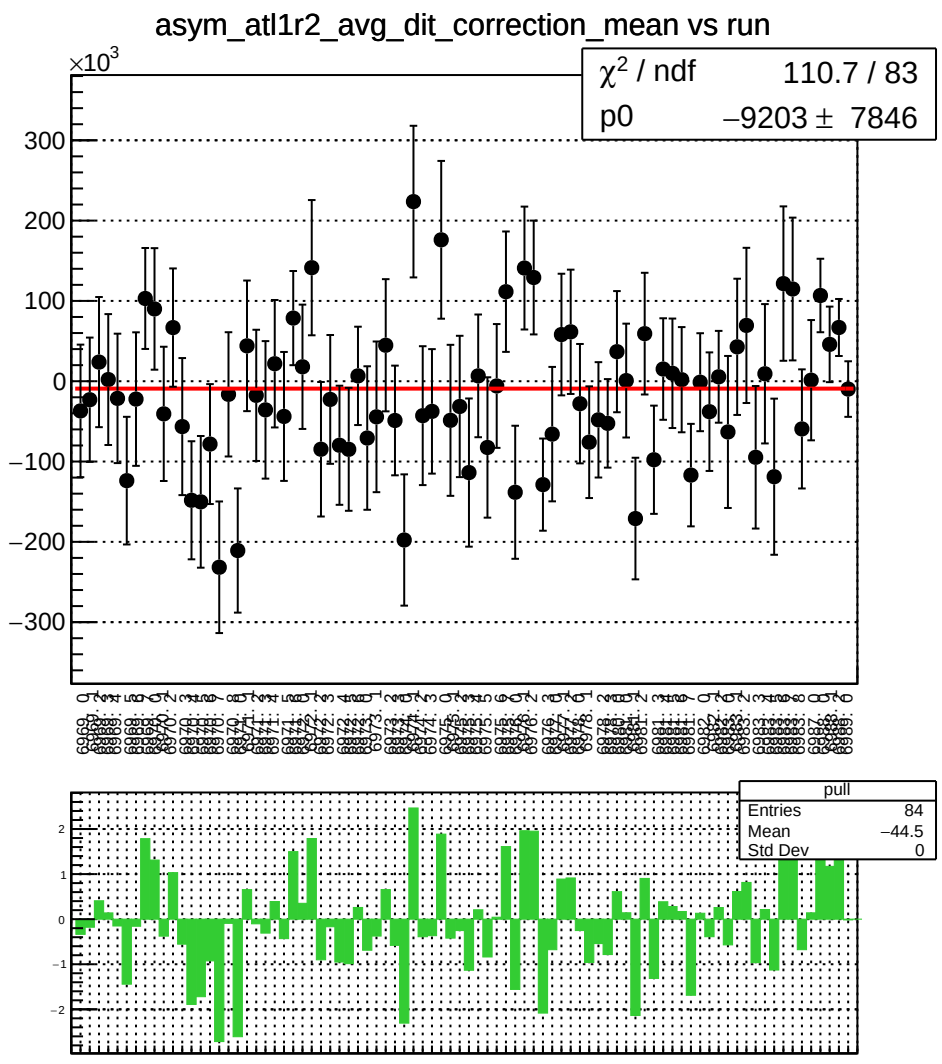

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 111.1 / 83
p0 −7892 ± 7303
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −33.26
Std Dev 0
pull1D
Entries 84
Mean −0.06384
Std Dev 1.148

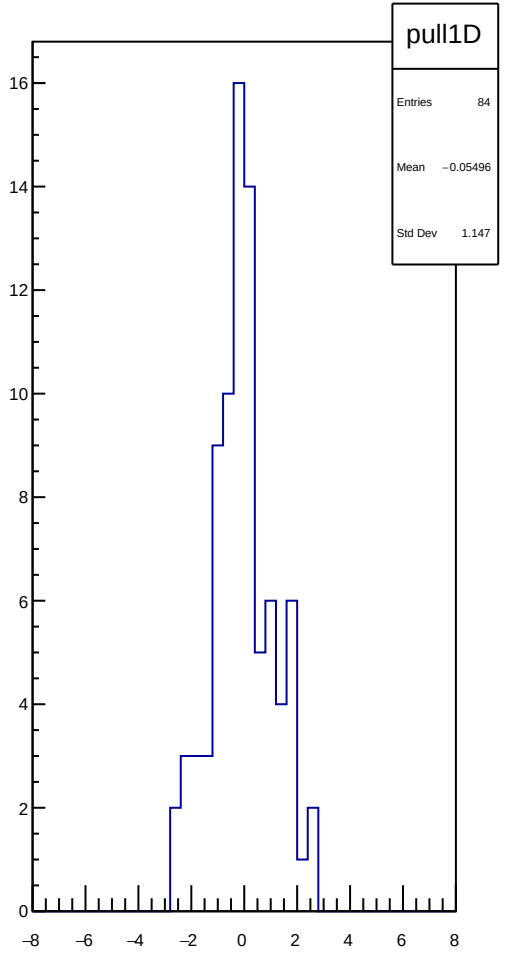

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 6.851e+04 / 83
p0 6542 ± 5.164
9000
8000
7000
6000
5000
4000

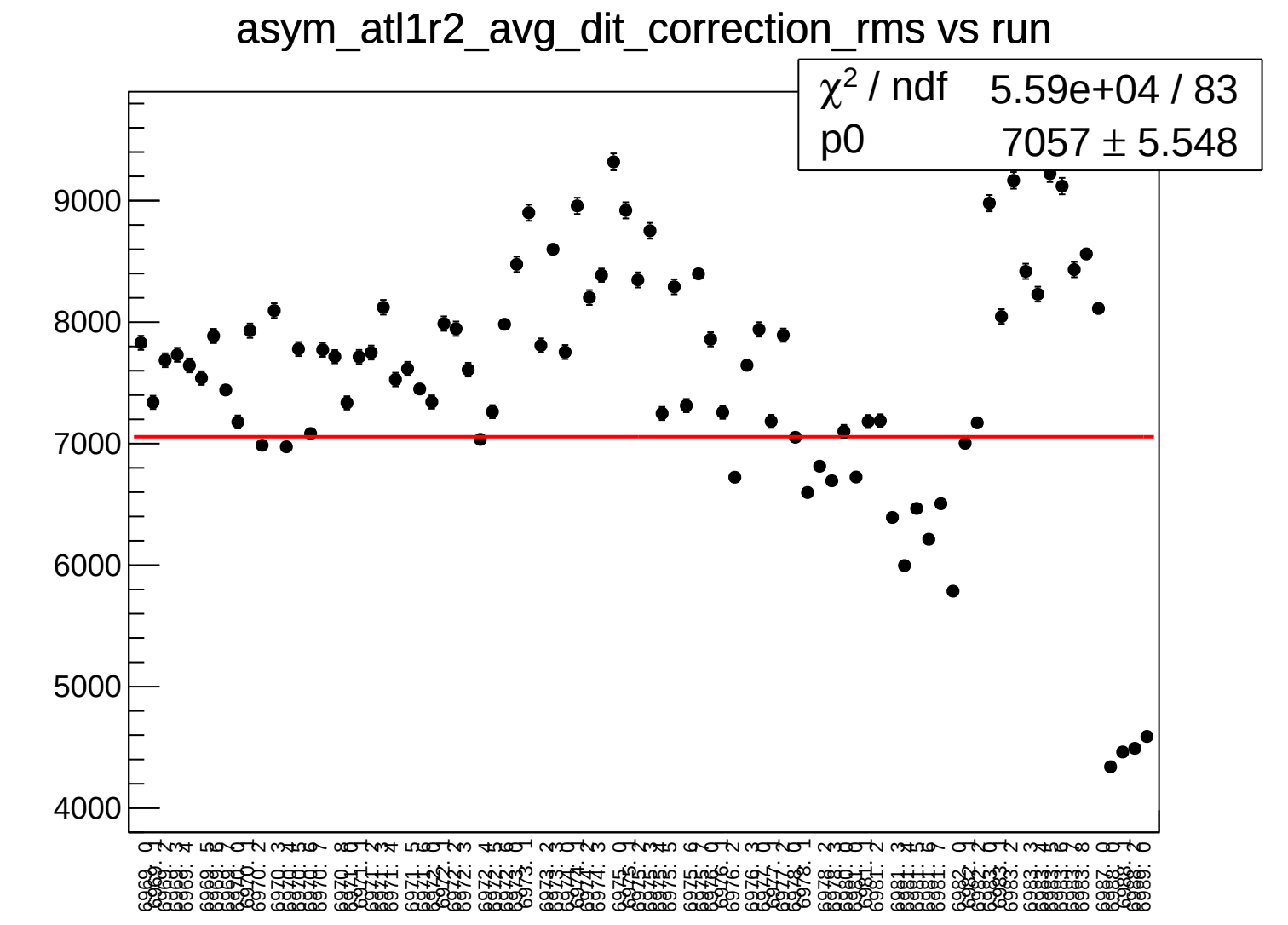

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 78.21 / 83
p0 1314 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −6044
Std Dev 0
3
2
1
0
−1
−2

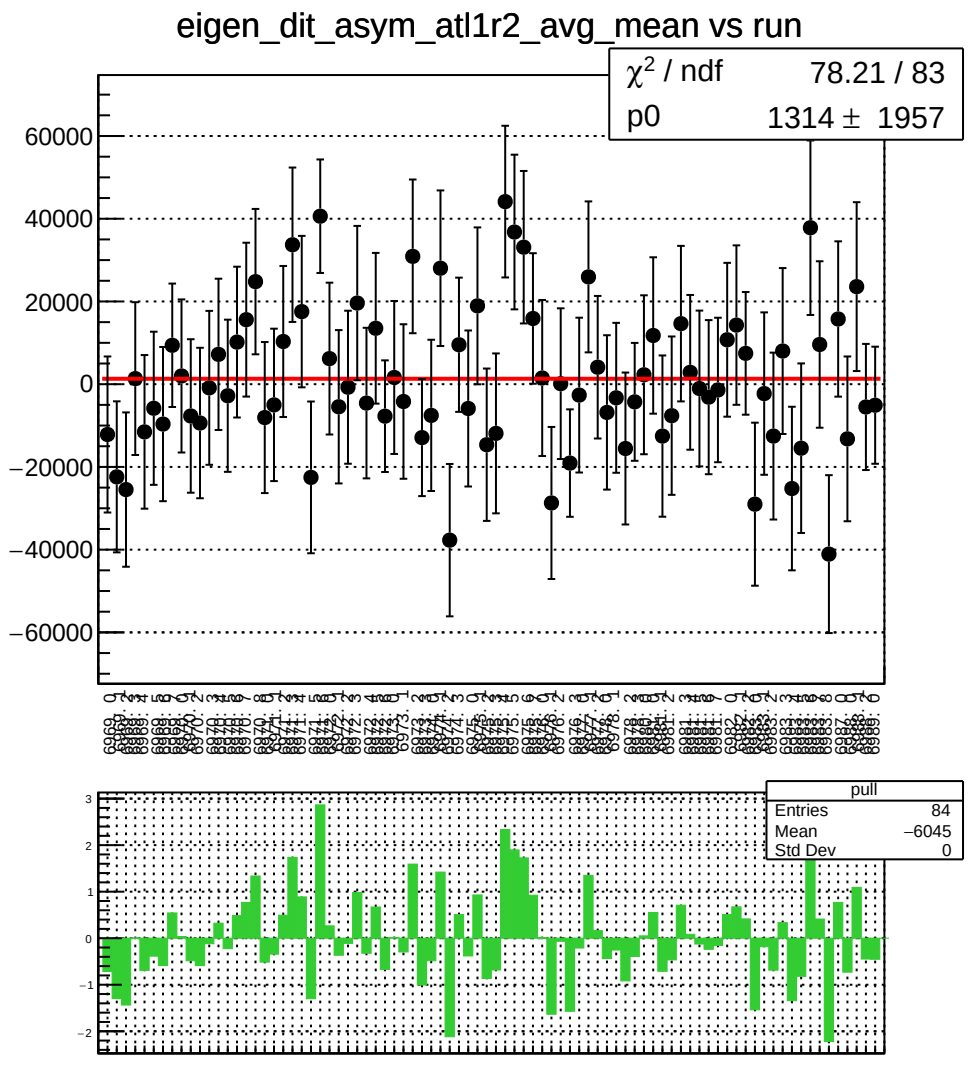

pull1D
Entries 84
Mean 9.984e−05
Std Dev 0.9649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

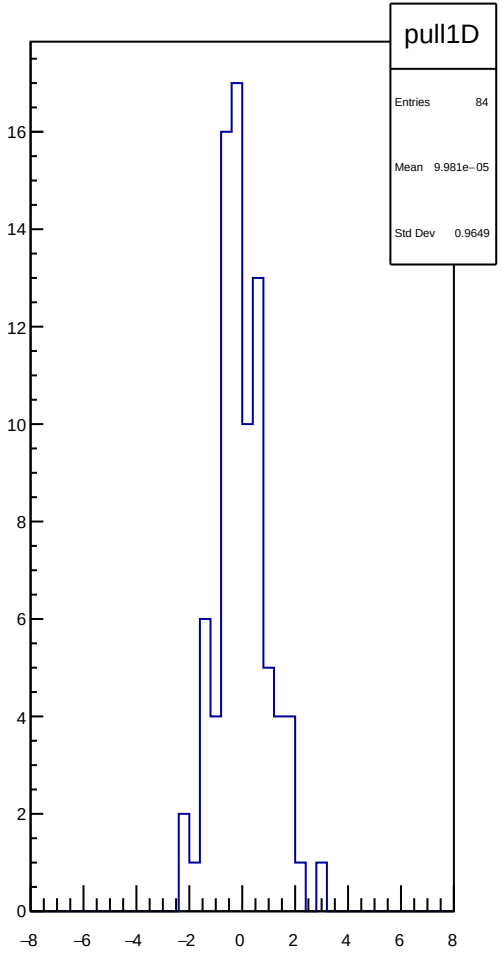

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 3020 / 83
p0 1788 ± 1.384
2200
2100
2000
1900
1800
1700

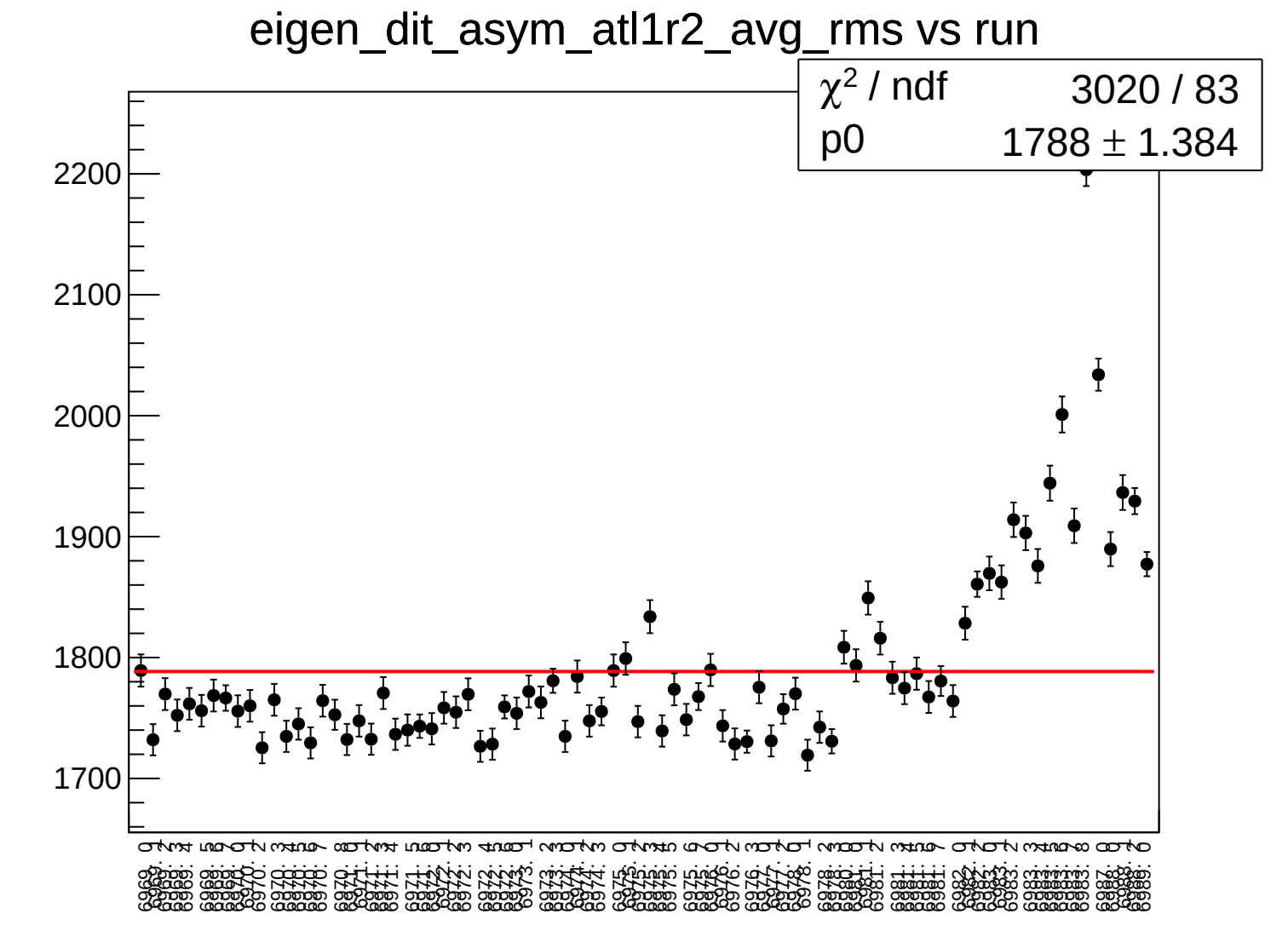

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 110.7 / 83
p0 −9203 ± 7846
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −44.5
Std Dev 0
2
1
0
−1
−2

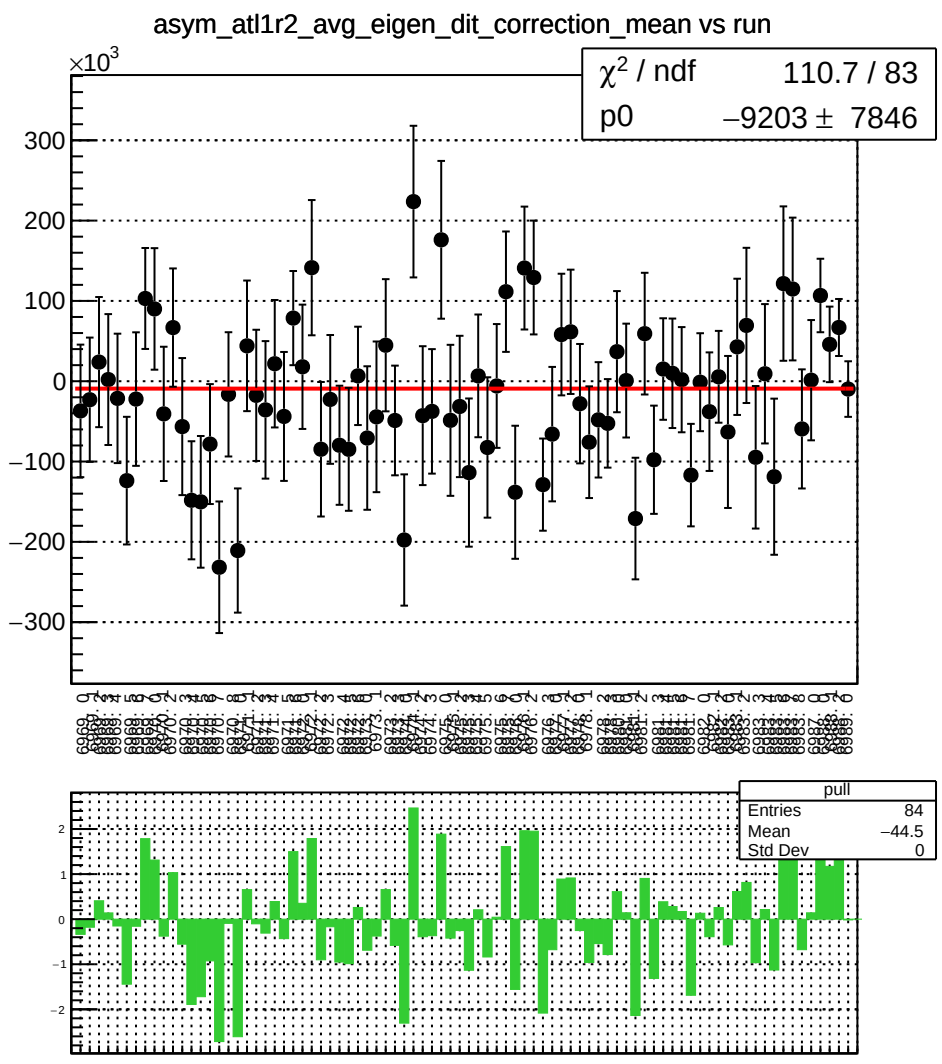

pull1D
Entries 84
Mean −0.05496
Std Dev 1.147
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

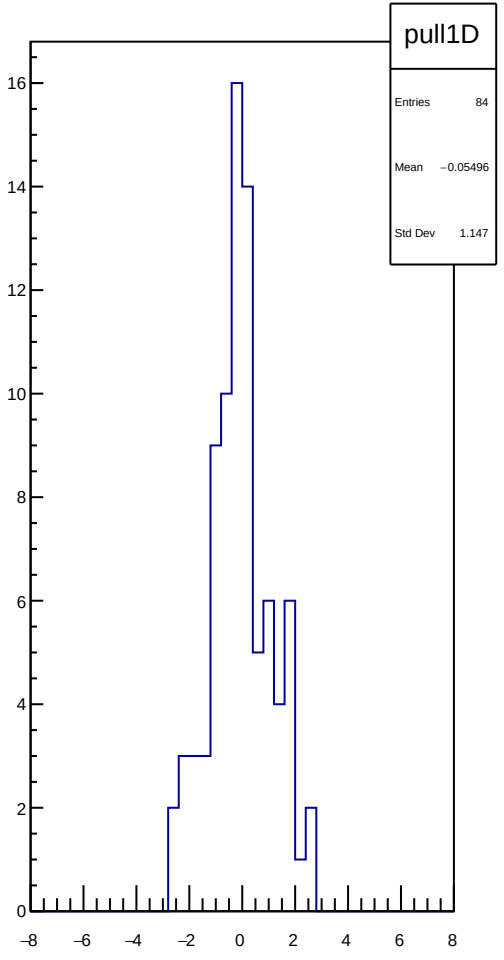

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 5.59e+04 / 83
p0 7057 ± 5.548
9000
8000
7000
6000
5000
4000

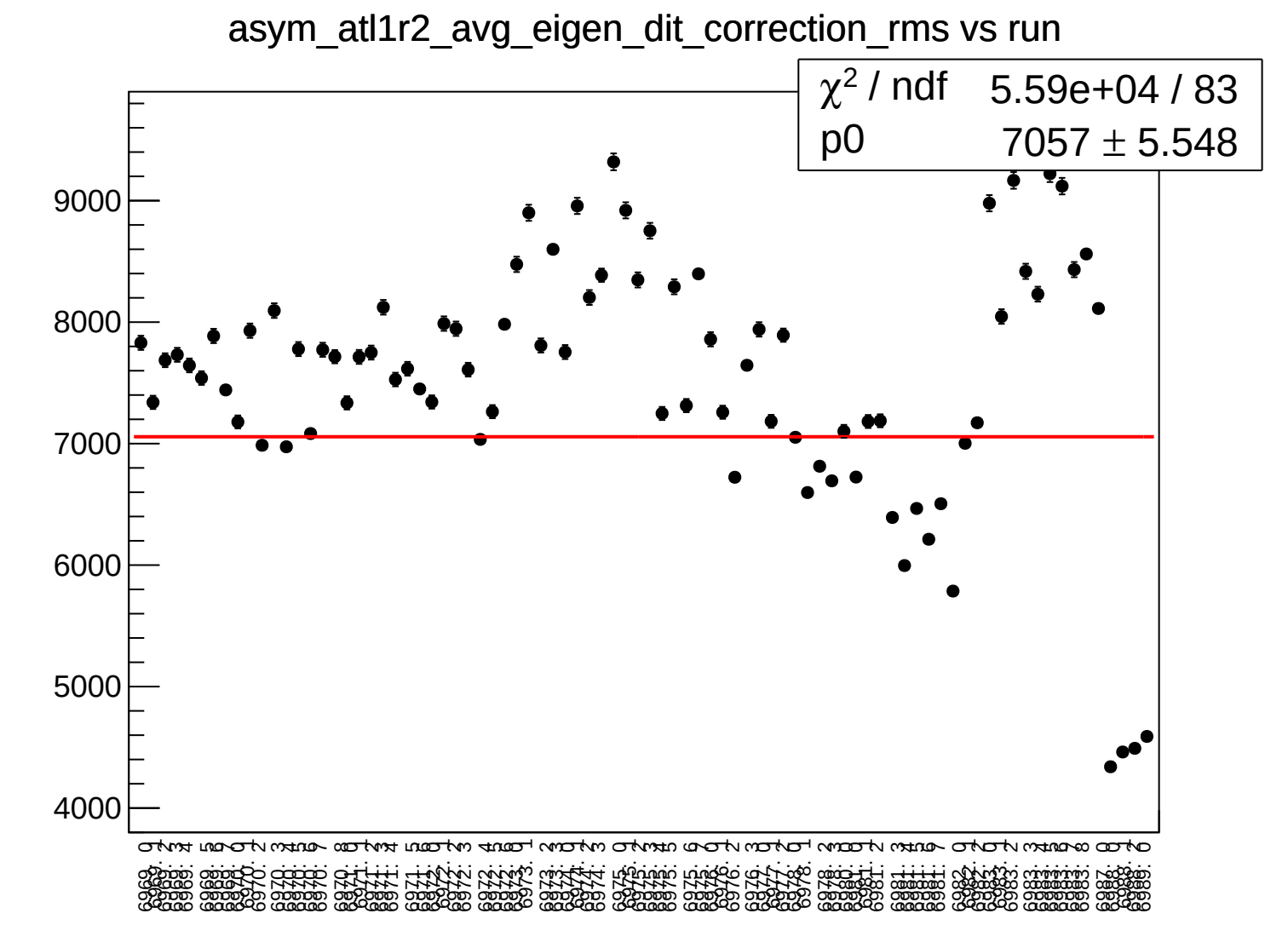

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 78.21 / 83
p0 1314 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −6045
Std Dev 0
3
2
1
0
−1
−2

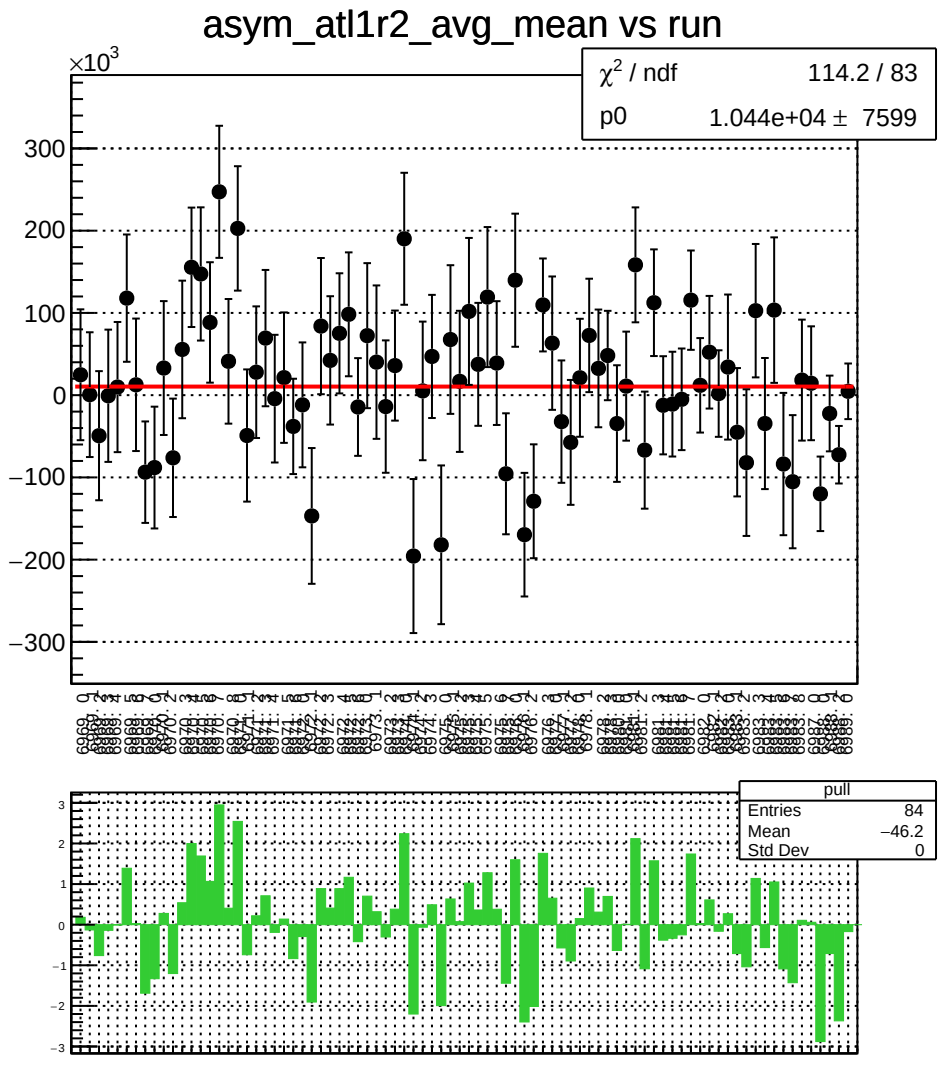

pull1D
Entries 84
Mean 9.981e−05
Std Dev 0.9649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

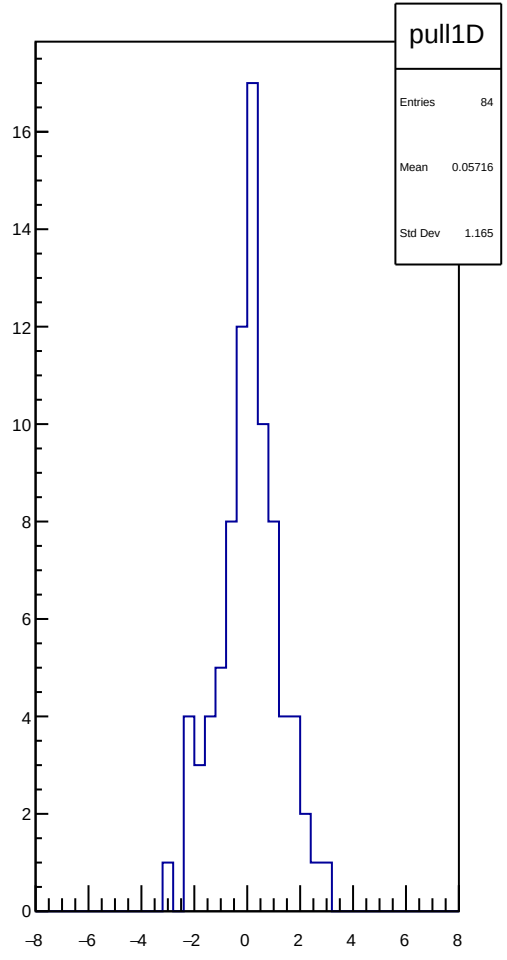

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 3020 / 83
p0 1788 ± 1.384
2200
2100
2000
1900
1800
1700

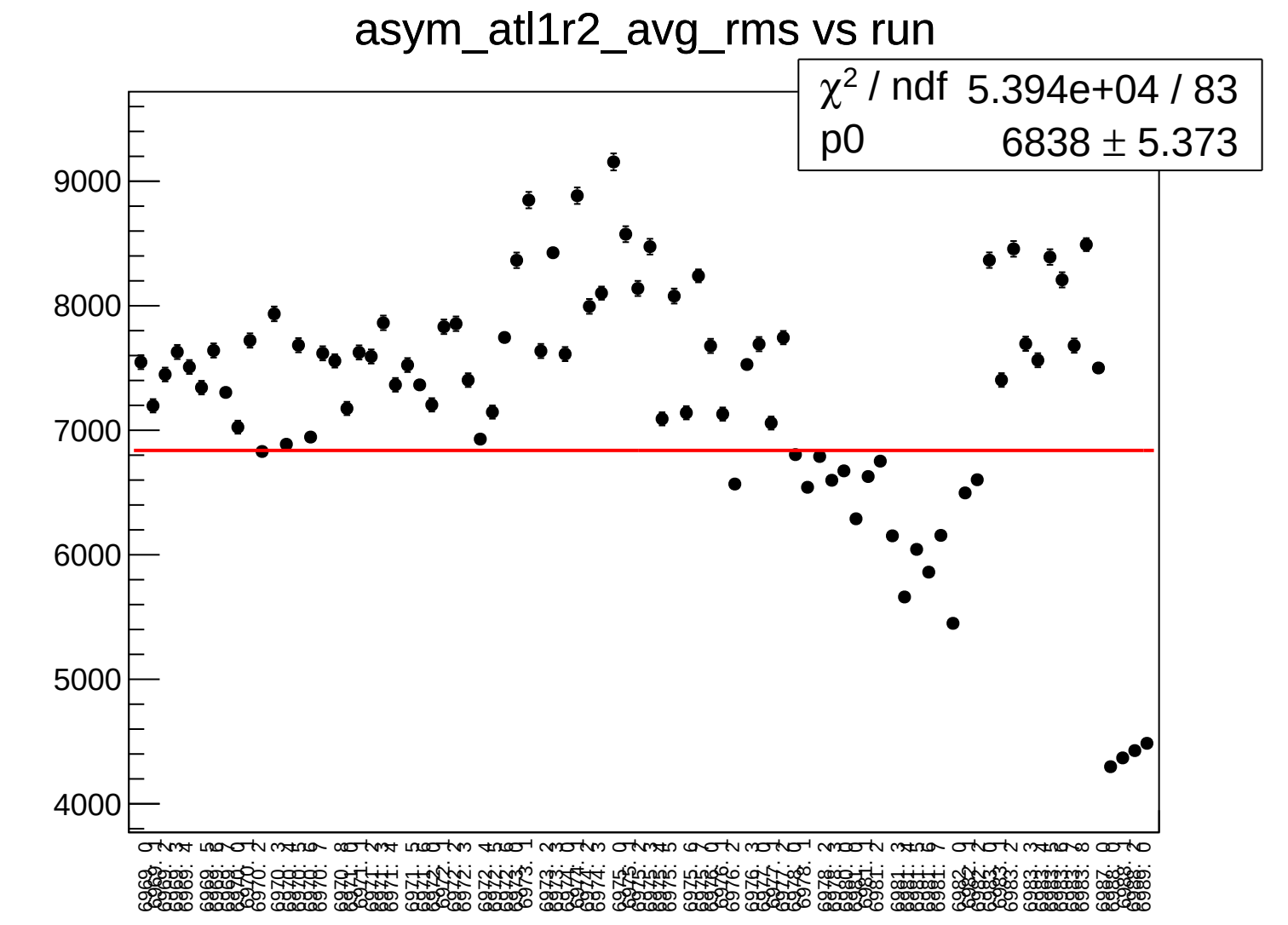

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 110.7 / 83
p0 −9203 ± 7846
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −44.5
Std Dev 0
2
1
0
−1
−2

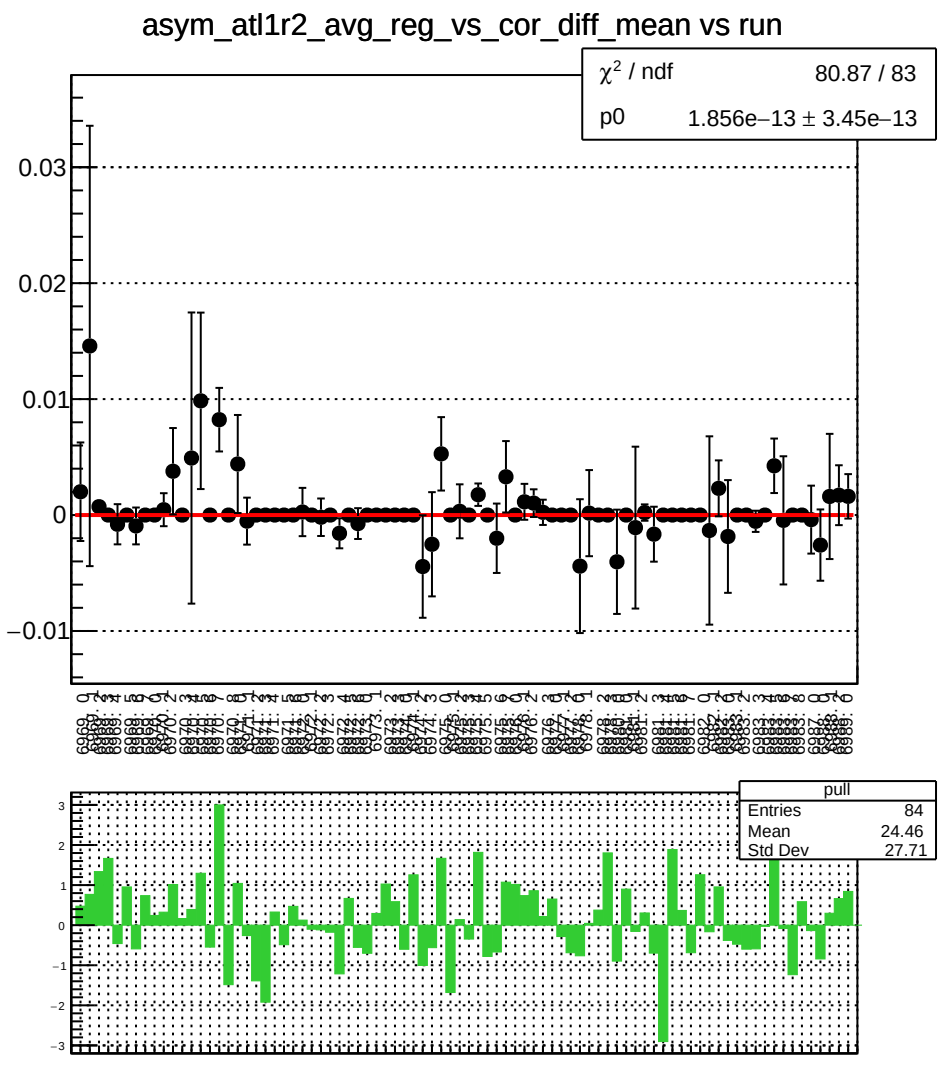

pull1D
Entries 84
Mean −0.05496
Std Dev 1.147
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

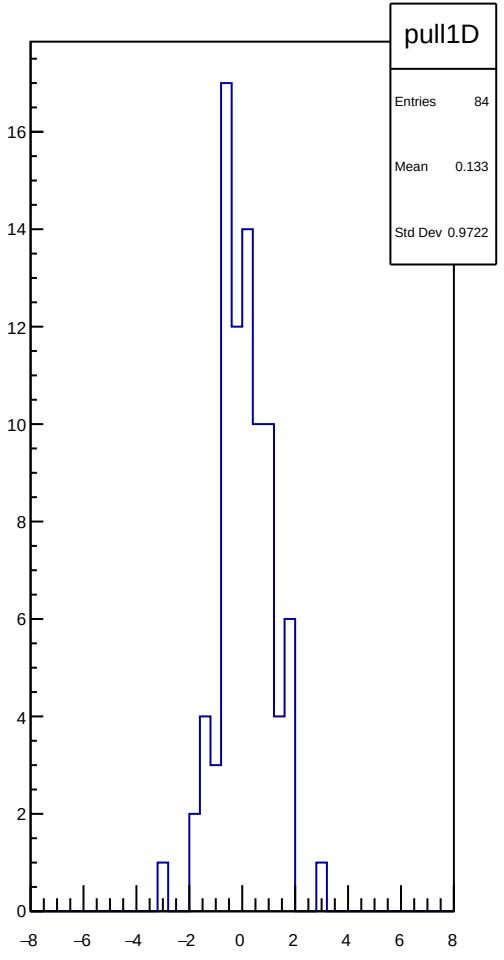

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.59e+04 / 83
p0 7057 ± 5.548
9000
8000
7000
6000
5000
4000

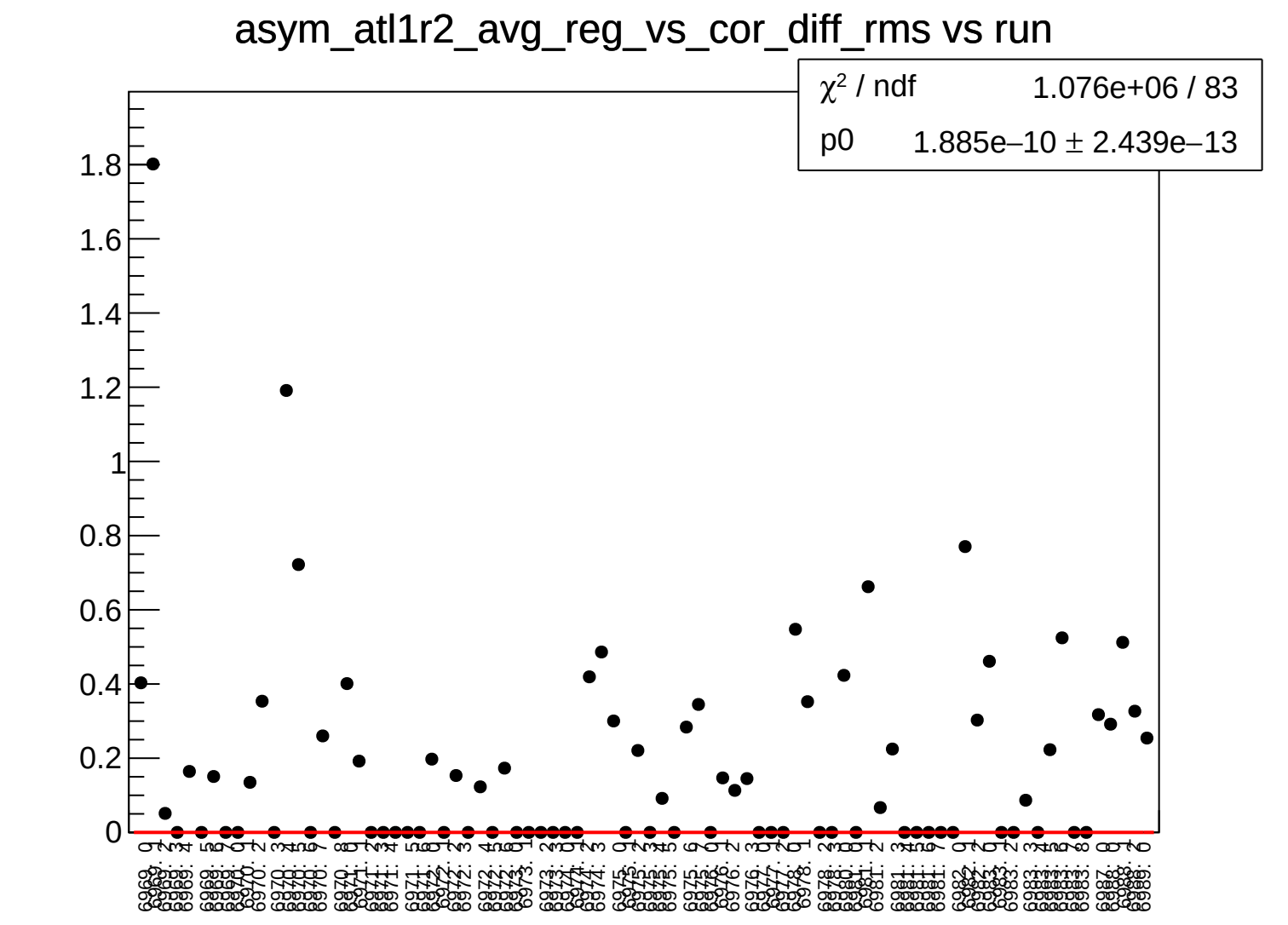

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 114.2 / 83
p0 1.044e+04 ± 7599
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −46.2
Std Dev 0
3
2
1
0
−1
−2
−3

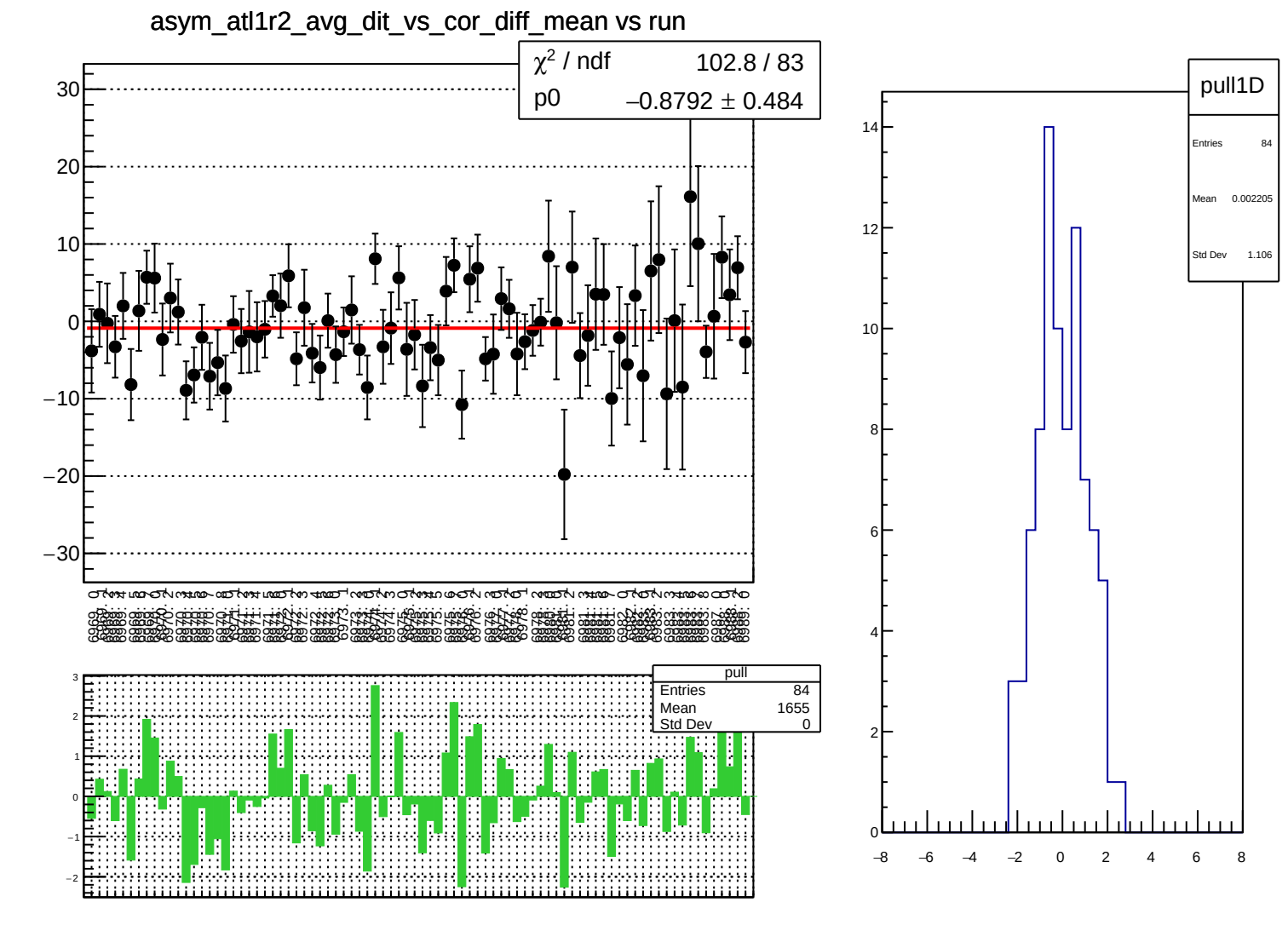

pull1D
Entries 84
Mean 0.05716
Std Dev 1.165
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

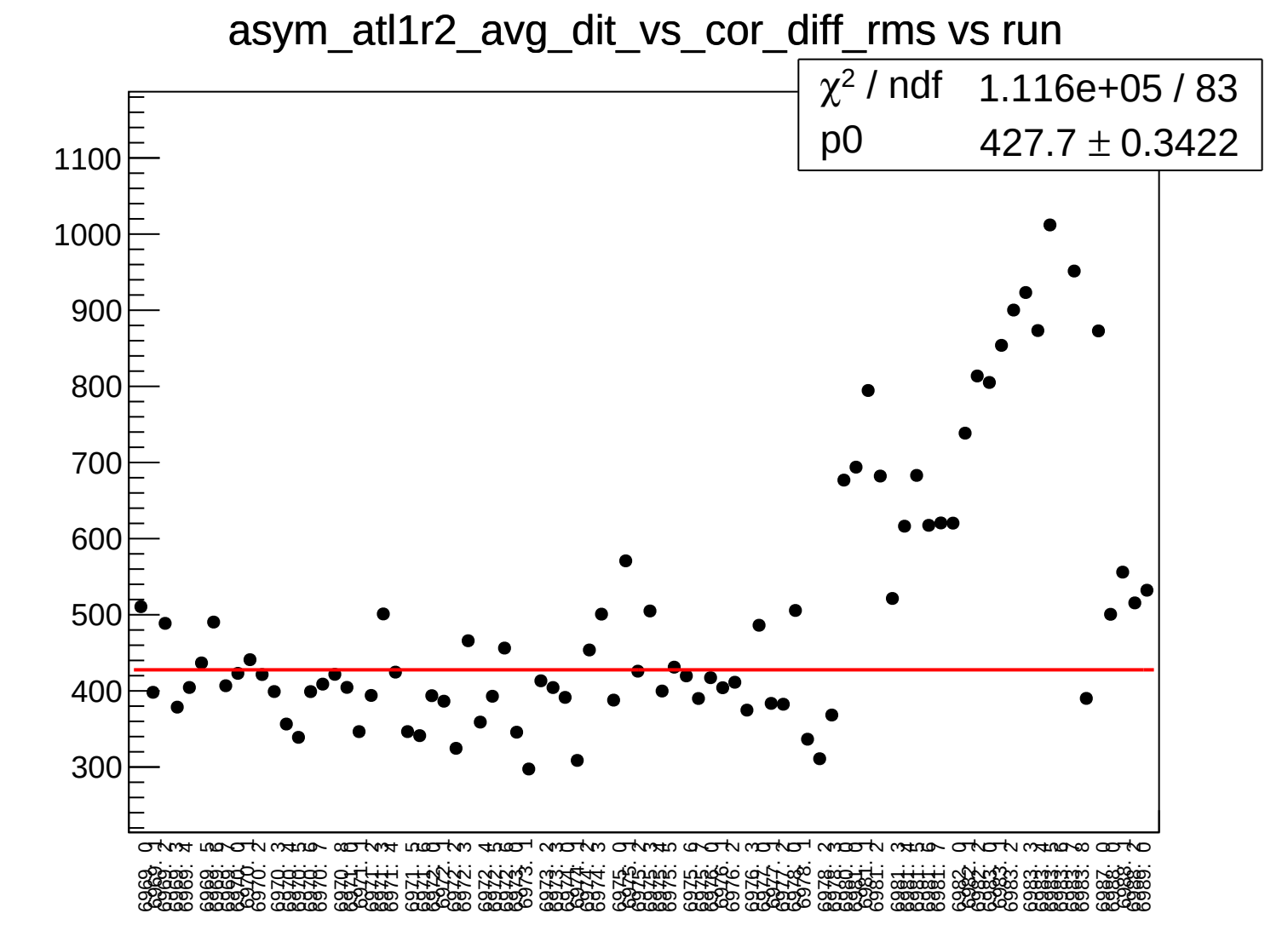

asym_atl1r2_avg_rms vs run
χ^2 / ndf 5.394e+04 / 83
p0 6838 ± 5.373
9000
8000
7000
6000
5000
4000

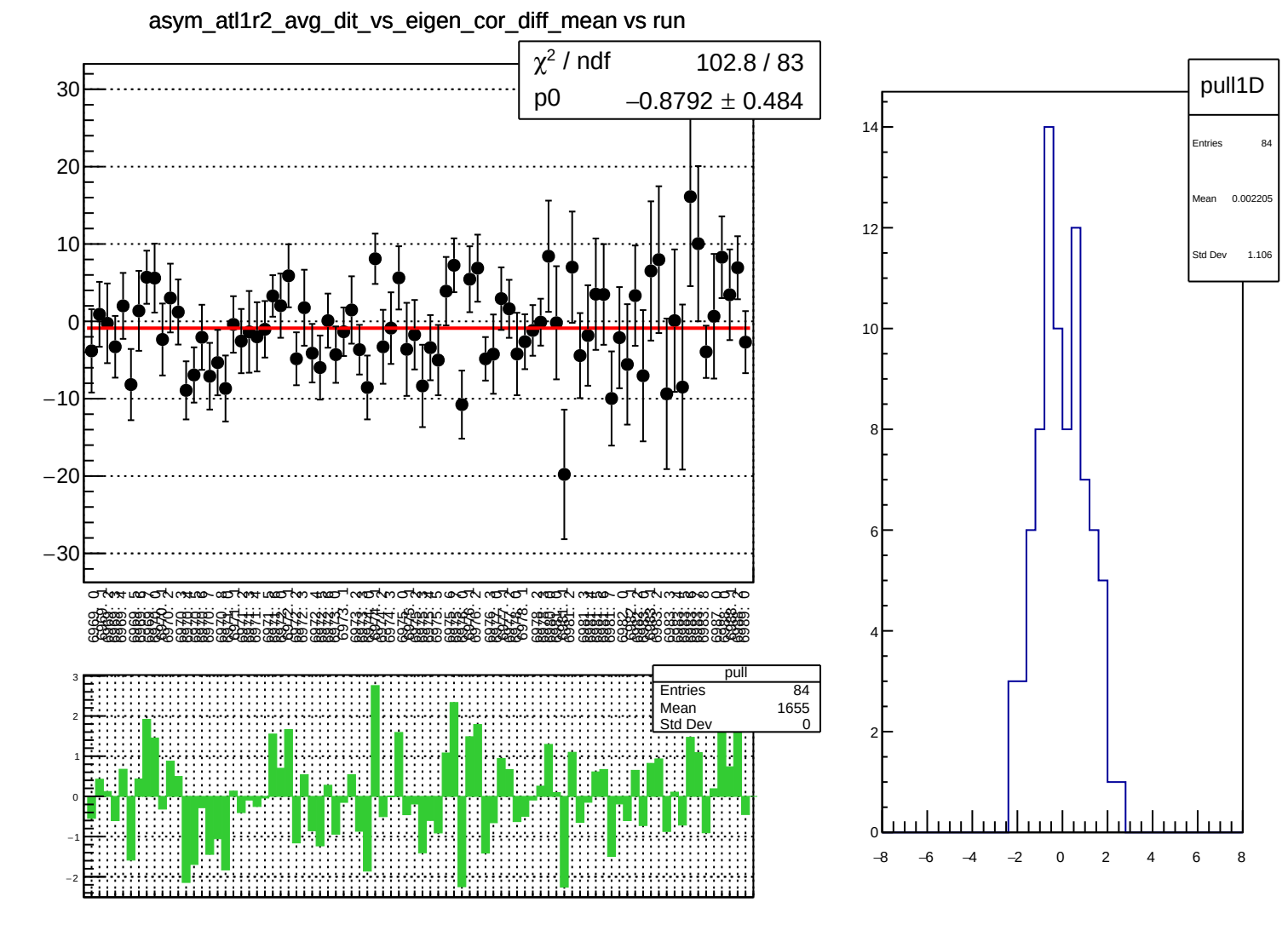

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.87 / 83
p0 1.856e−13 ± 3.45e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 84
Mean 24.46
Std Dev 27.71
3
2
1
0
−1
−2
−3

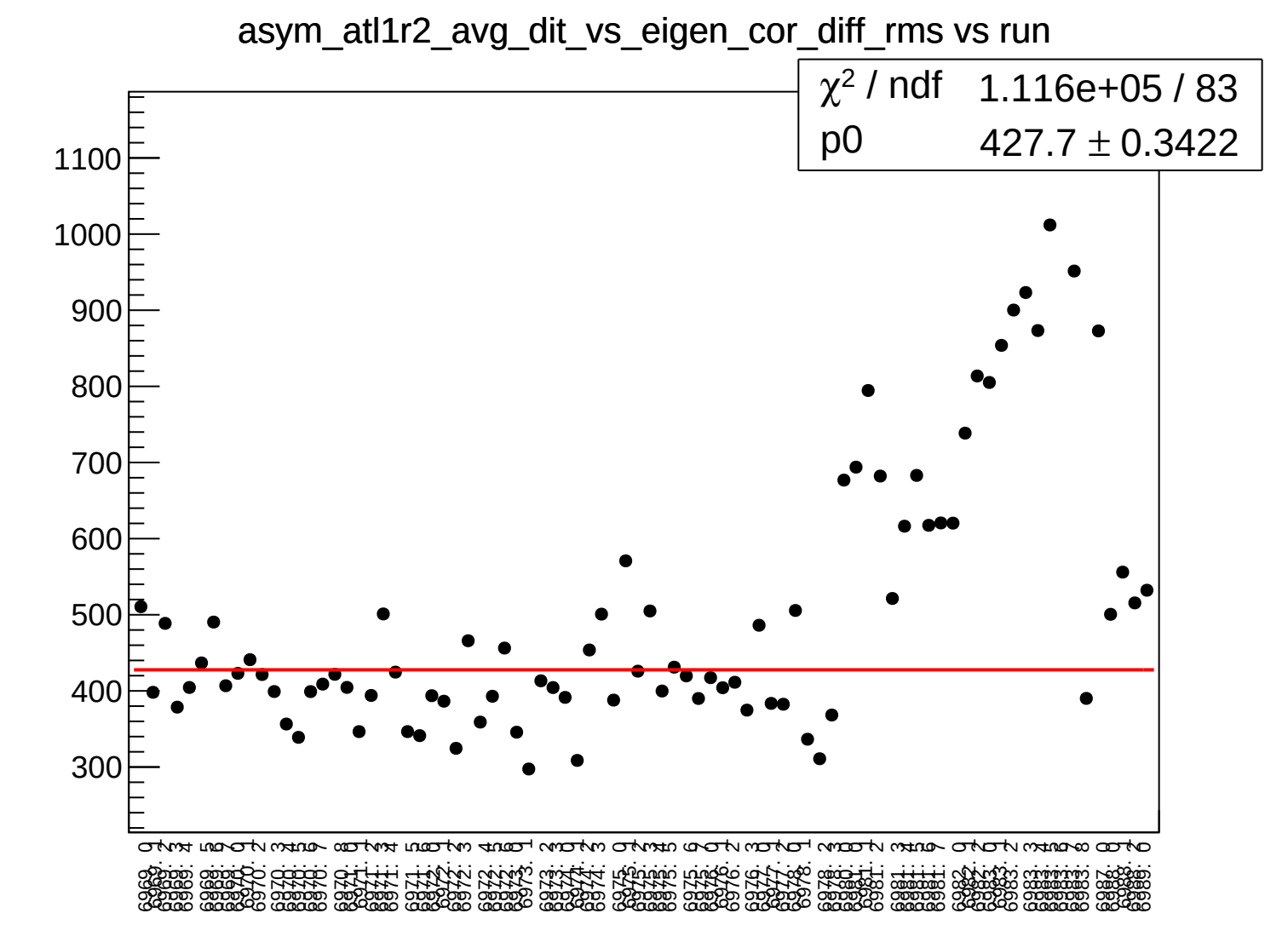

pull1D
Entries 84
Mean 0.133
Std Dev 0.9722
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

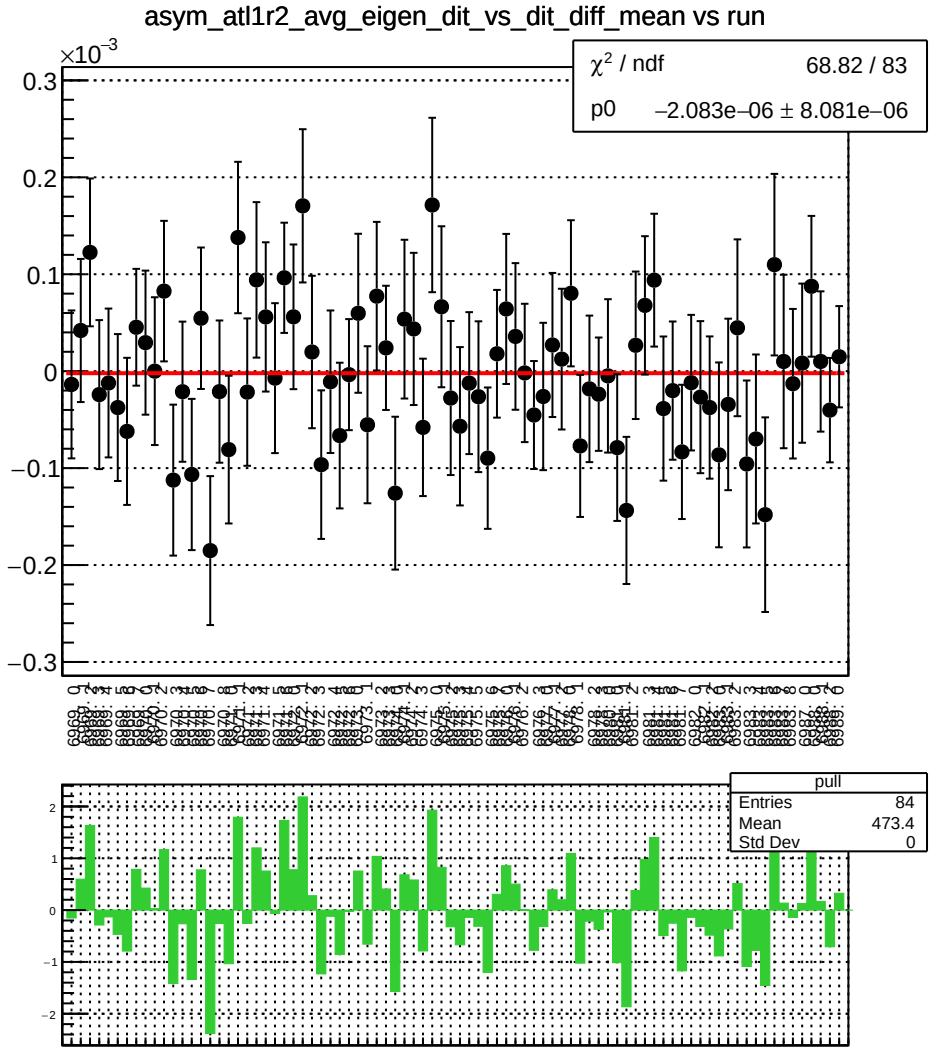

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.076e+06 / 83
p0 1.885e−10 ± 2.439e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

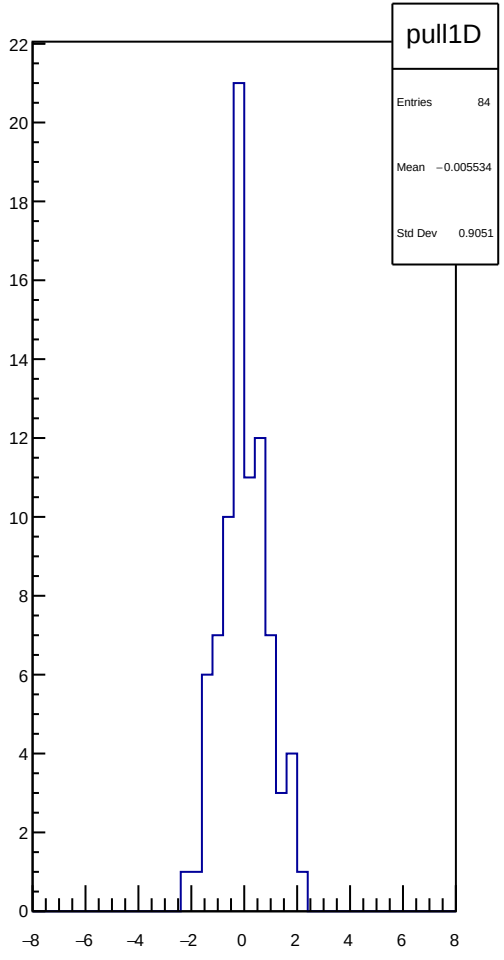

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 83
p0 −0.8792 ± 0.484
pull
Entries 84
Mean 1655
Std Dev 0
pull1D
Entries 84
Mean 0.002205
Std Dev 1.106

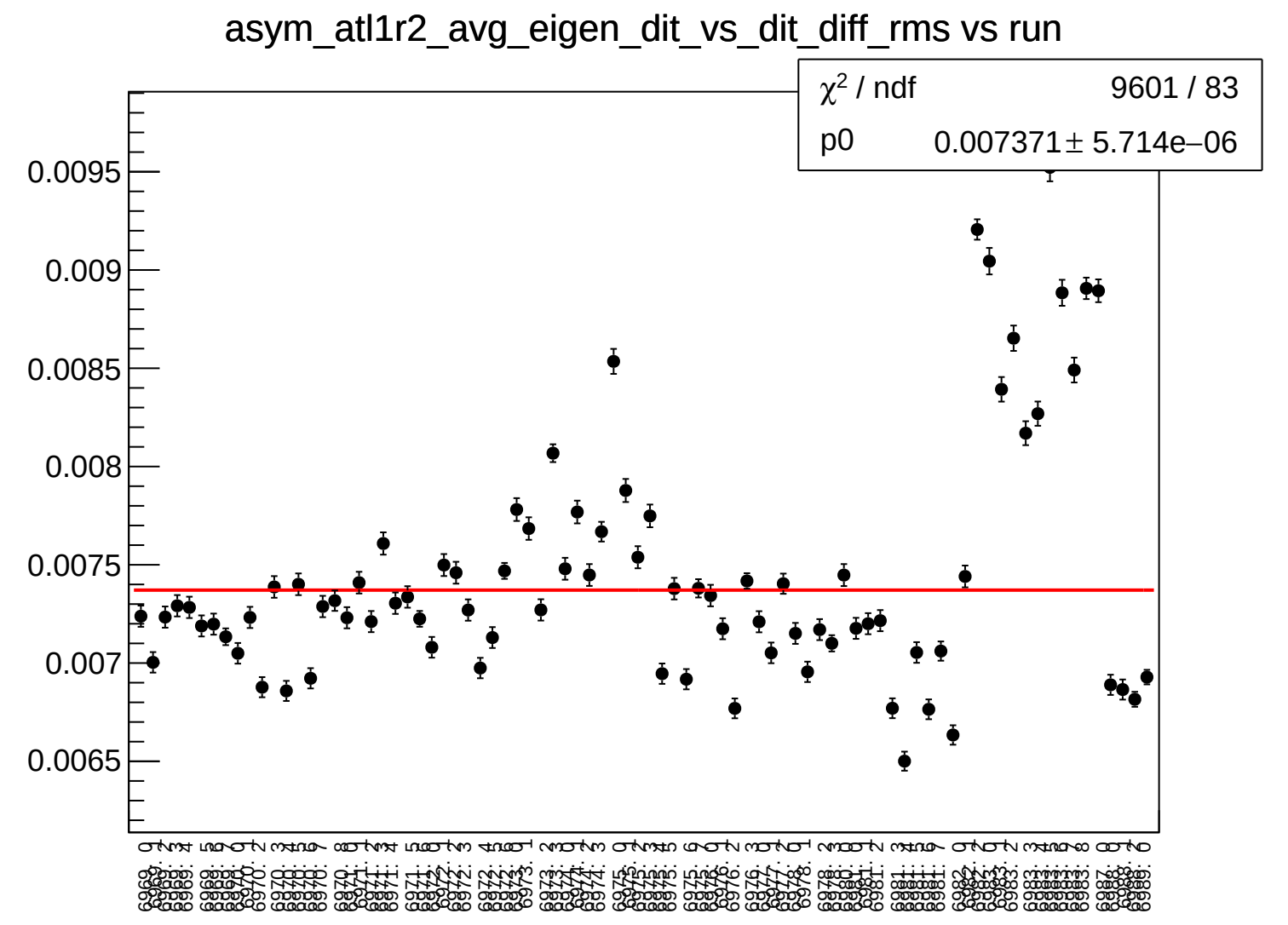

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.116e+05 / 83
p0 427.7 ± 0.3422
1100
1000
900
800
700
600
500
400
300

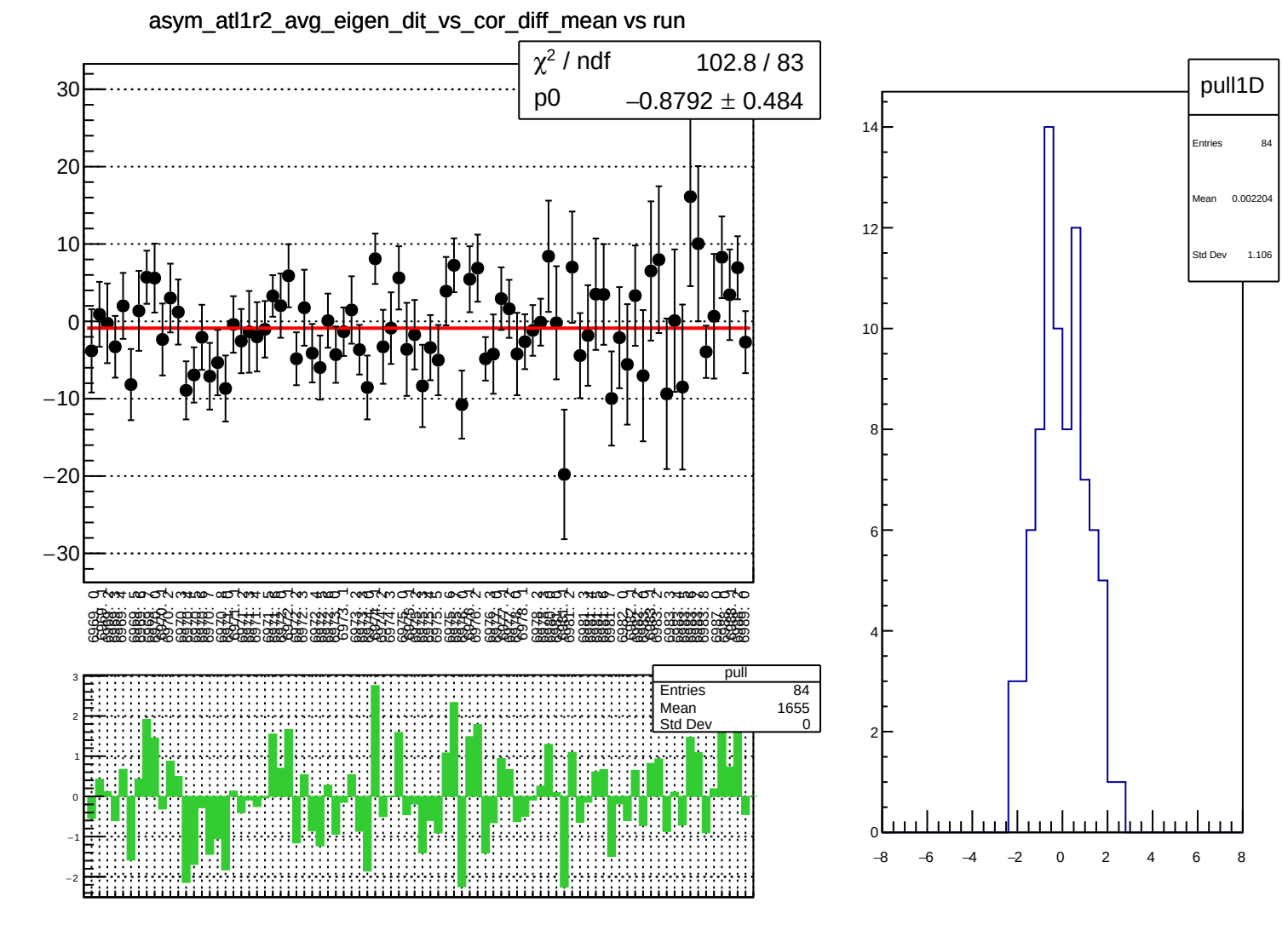

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 83
p0 −0.8792 ± 0.484
pull
Entries 84
Mean 1655
Std Dev 0
pull1D
Entries 84
Mean 0.002205
Std Dev 1.106

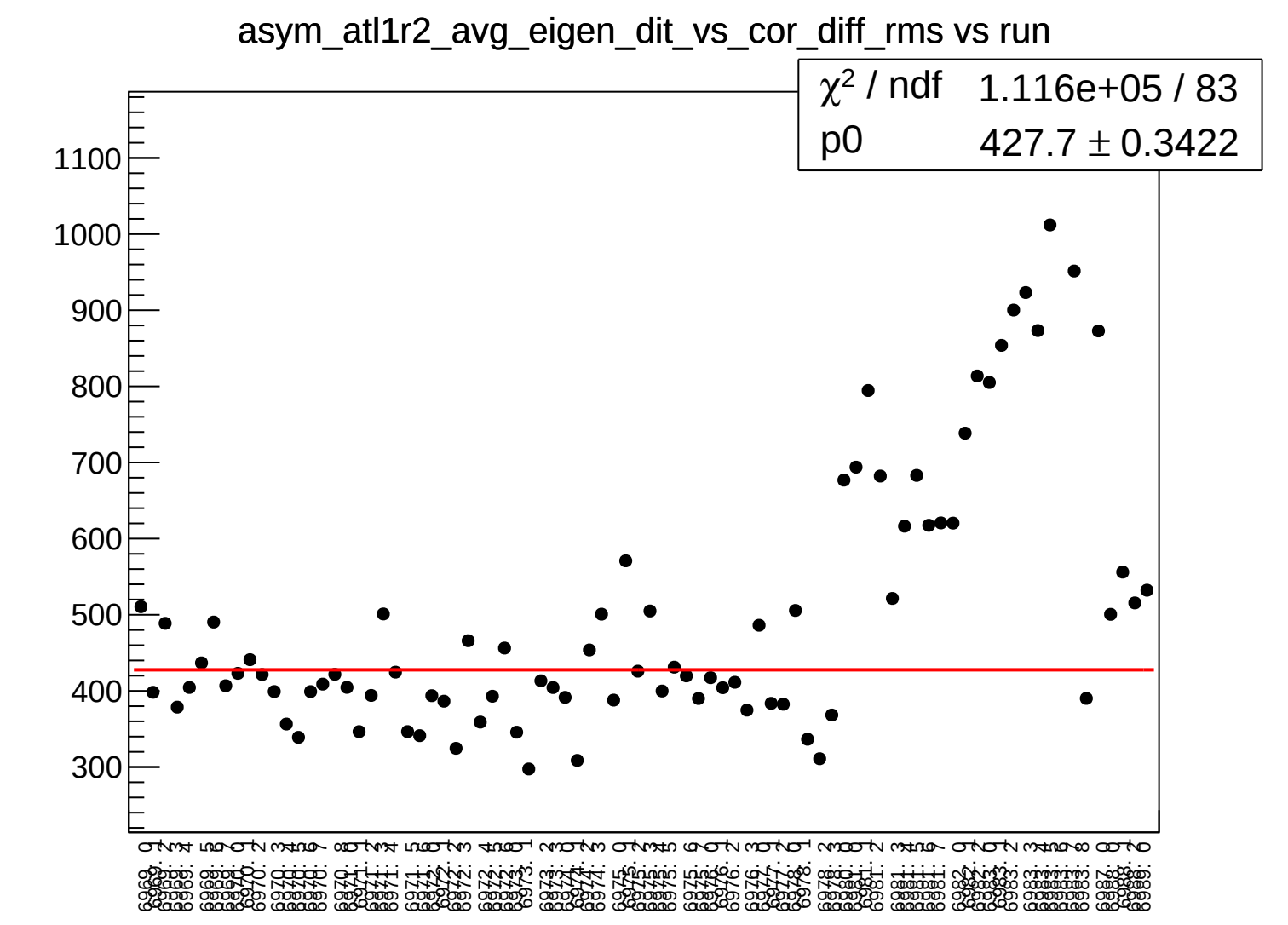

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.116e+05 / 83
p0 427.7 ± 0.3422
1100
1000
900
800
700
600
500
400
300

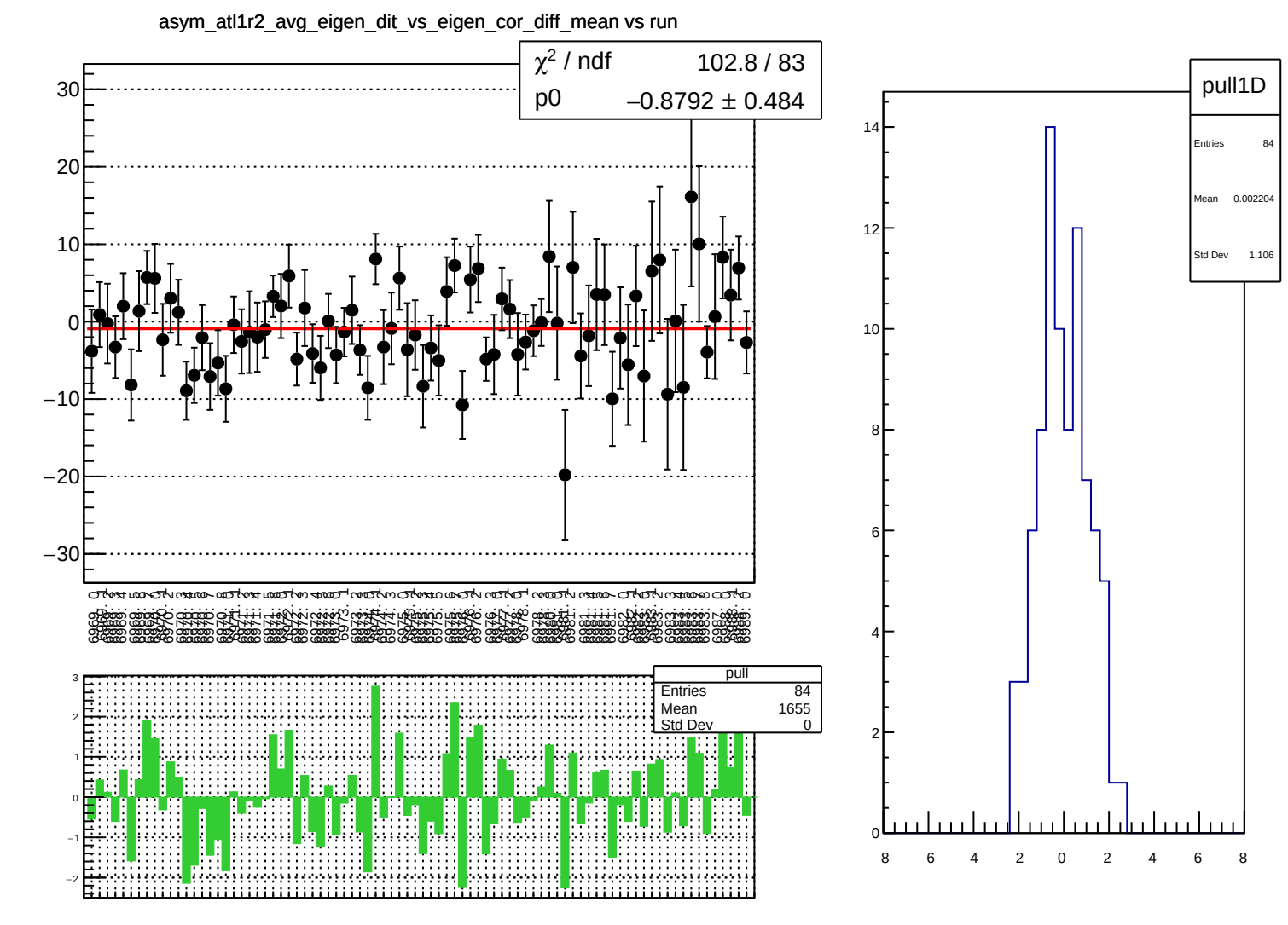

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.82 / 83
p0 −2.083e−06 ± 8.081e−06
pull
Entries 84
Mean 473.4
Std Dev 0

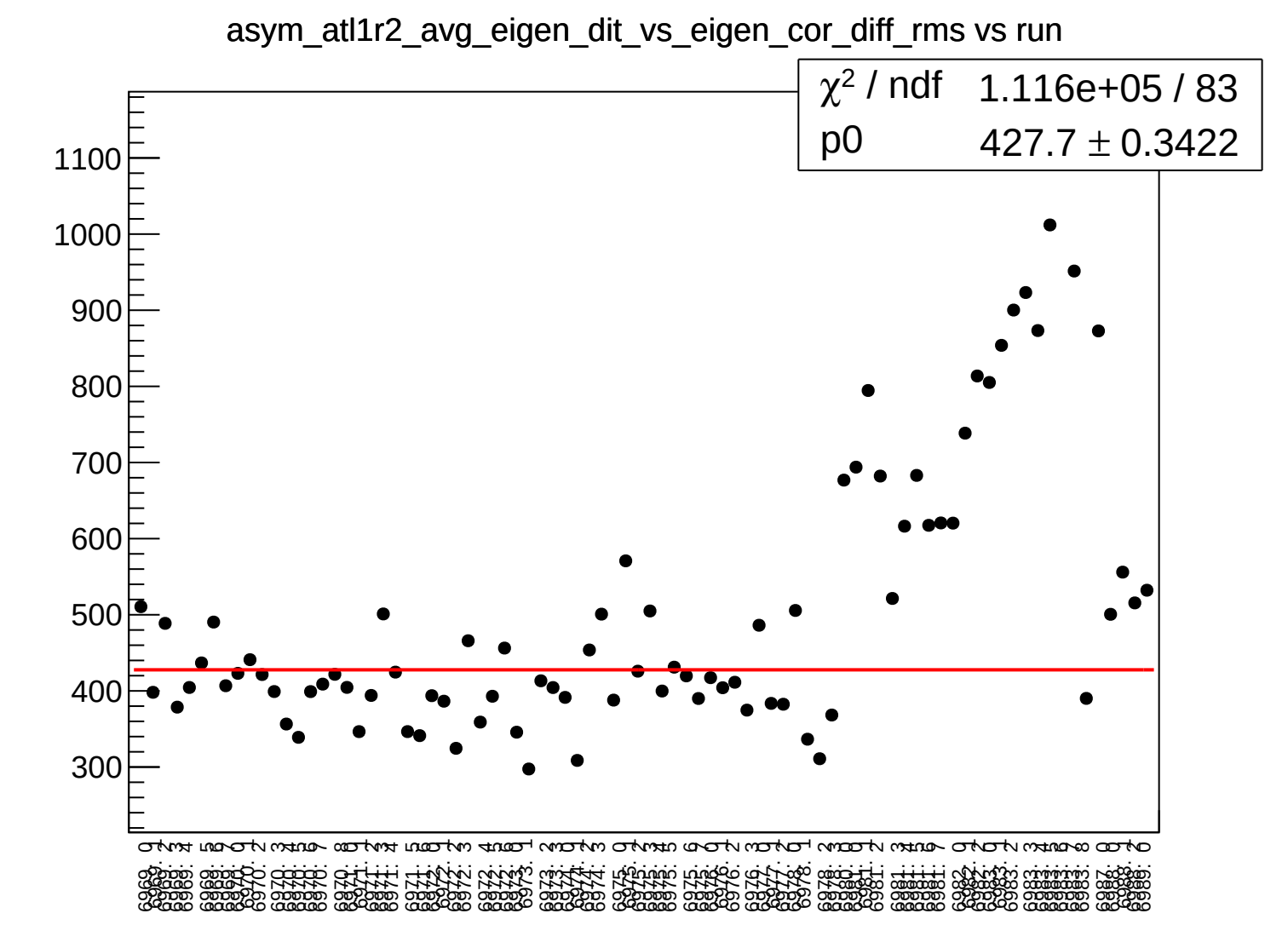

pull1D
Entries 84
Mean −0.005534
Std Dev 0.9051

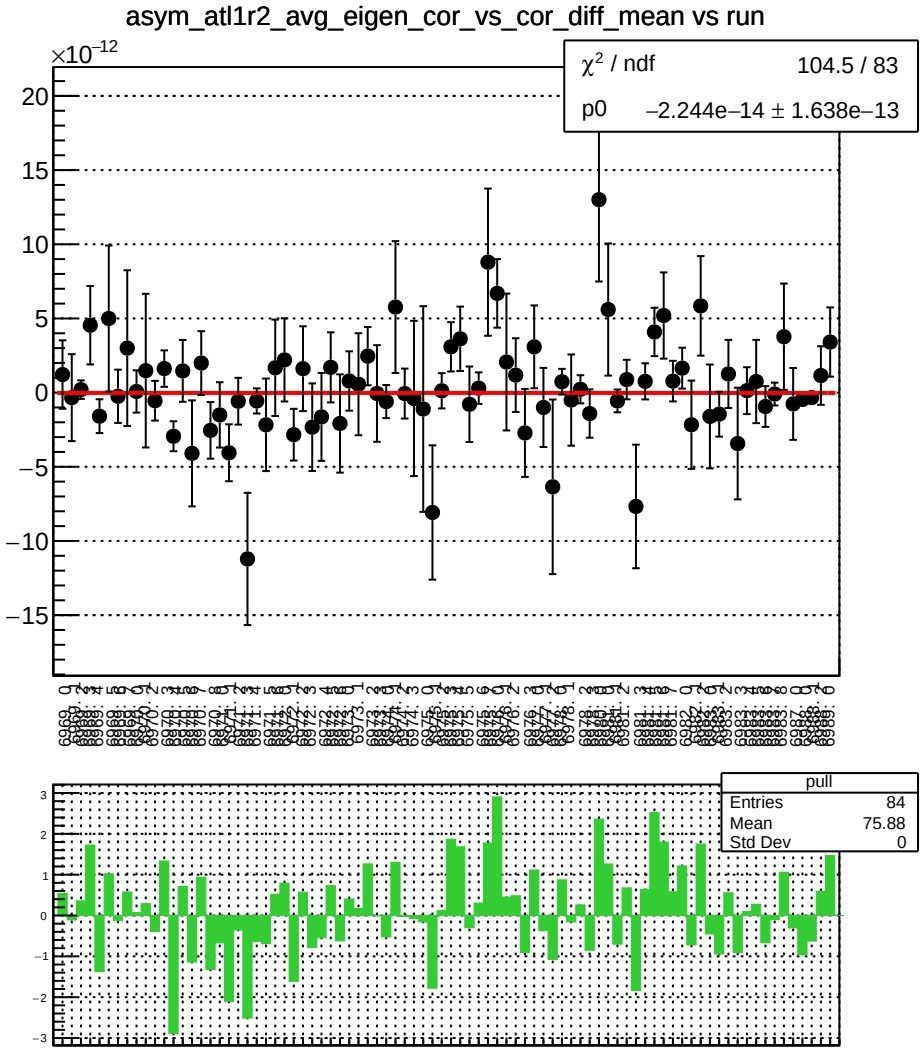

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9601 / 83
p0 0.007371 ± 5.714e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

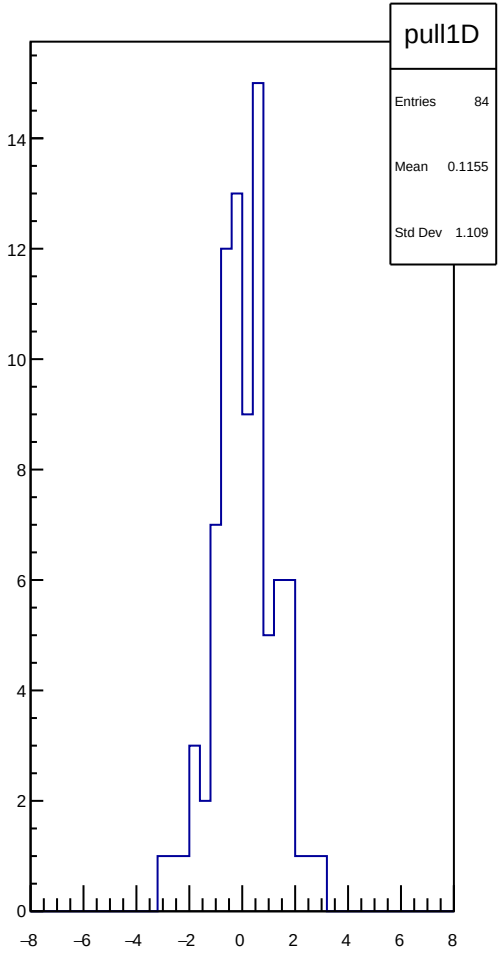

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 83
p0 −0.8792 ± 0.484
pull
Entries 84
Mean 1655
Std Dev 0
pull1D
Entries 84
Mean 0.002204
Std Dev 1.106

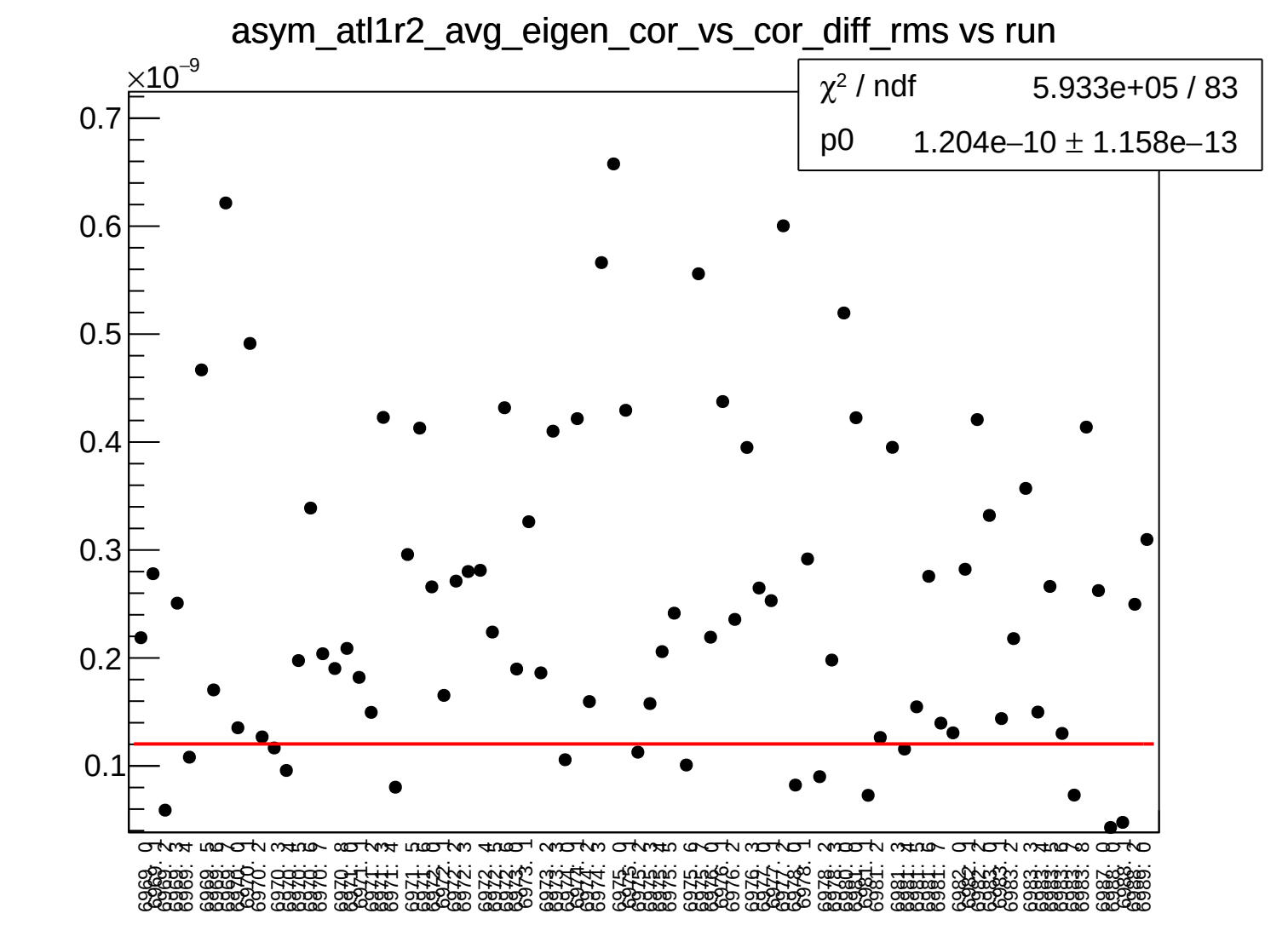

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.116e+05 / 83
p0 427.7 ± 0.3422
1100
1000
900
800
700
600
500
400
300

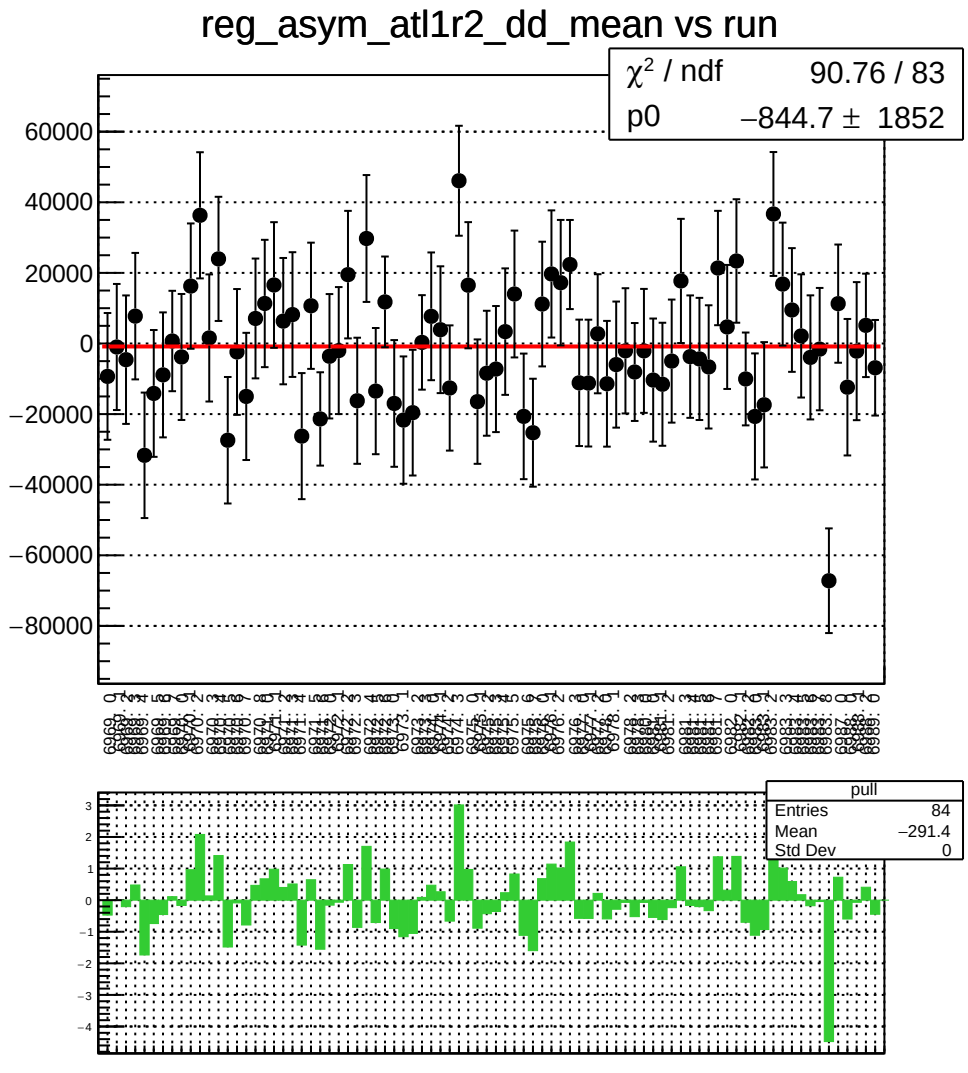

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 83
p0 −0.8792 ± 0.484
pull
Entries 84
Mean 1655
Std Dev 0
pull1D
Entries 84
Mean 0.002204
Std Dev 1.106

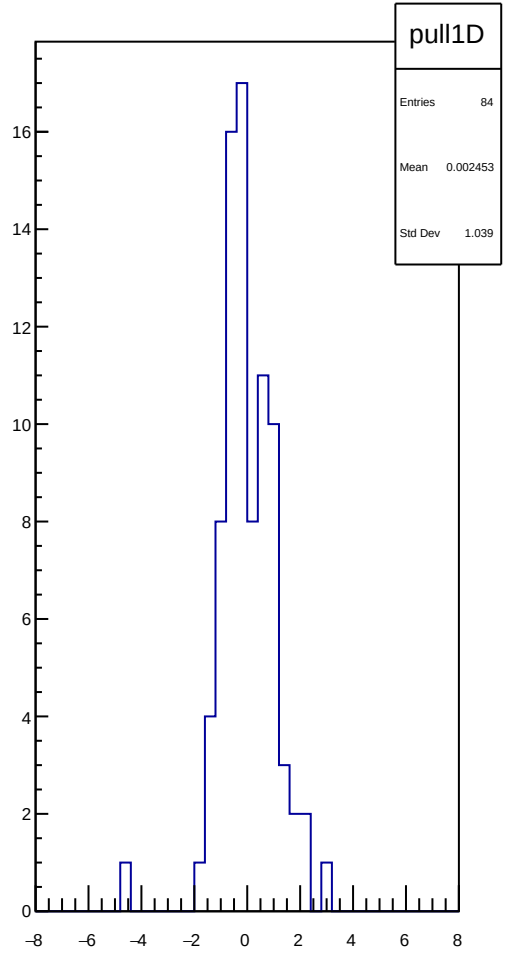

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.116e+05 / 83
p0 427.7 ± 0.3422
1100
1000
900
800
700
600
500
400
300

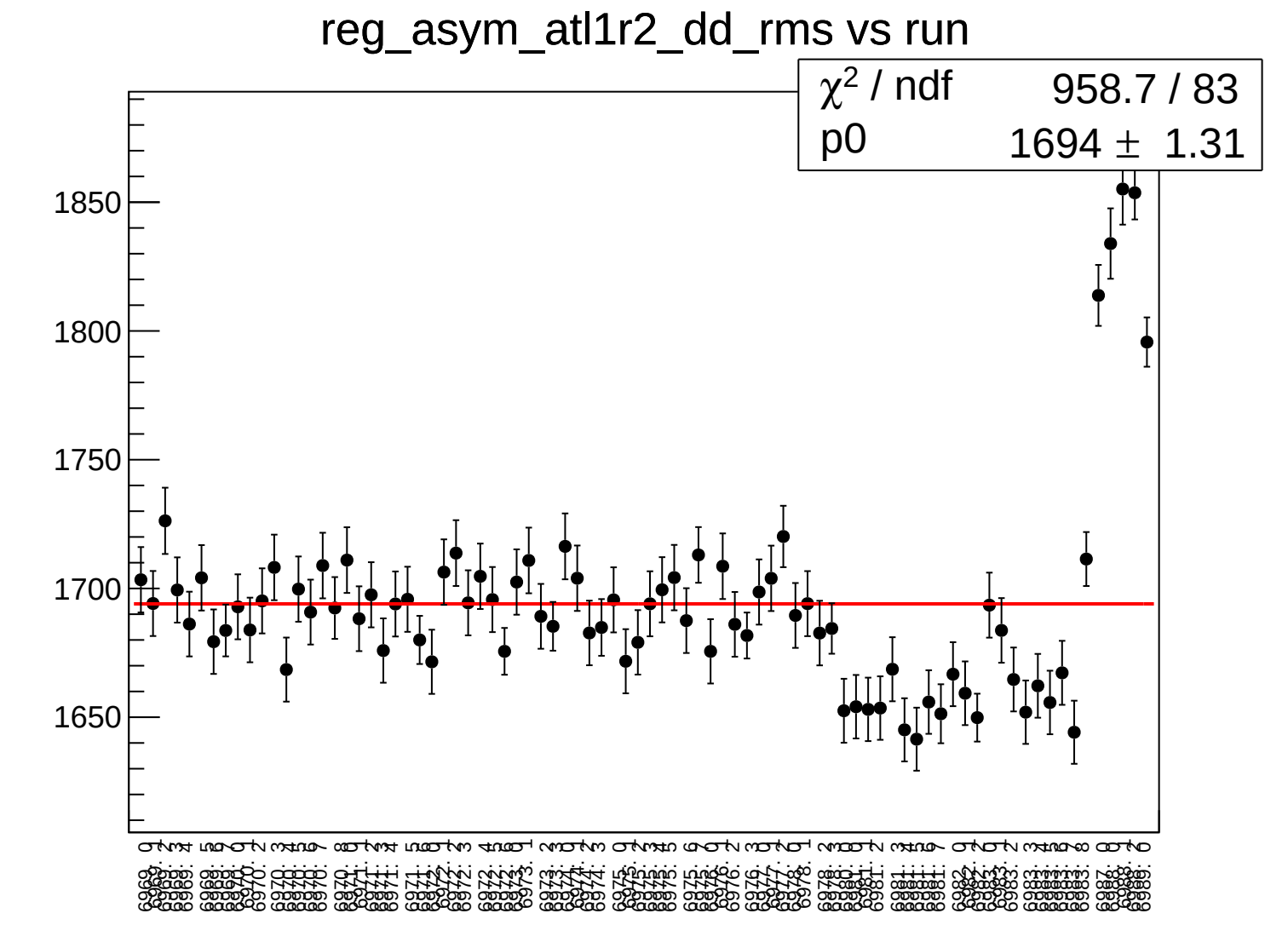

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.5 / 83
p0 −2.244e−14 ± 1.638e−13
pull
Entries 84
Mean 75.88
Std Dev 0

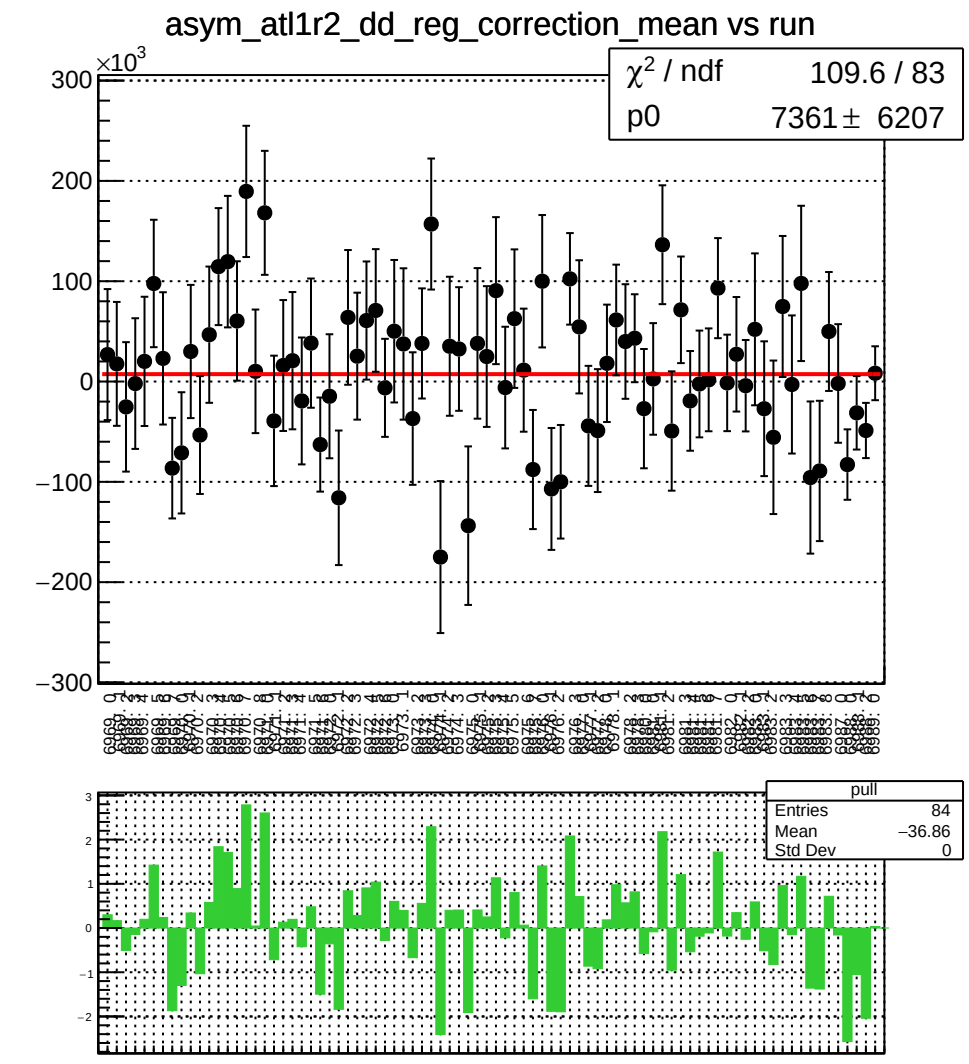

pull1D
Entries 84
Mean 0.1155
Std Dev 1.109

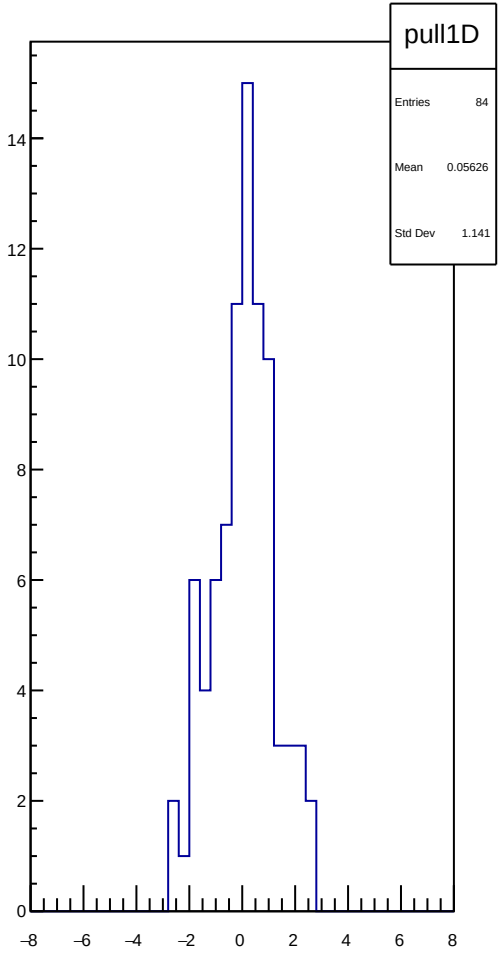

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.933e+05 / 83
p0 1.204e−10 ± 1.158e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

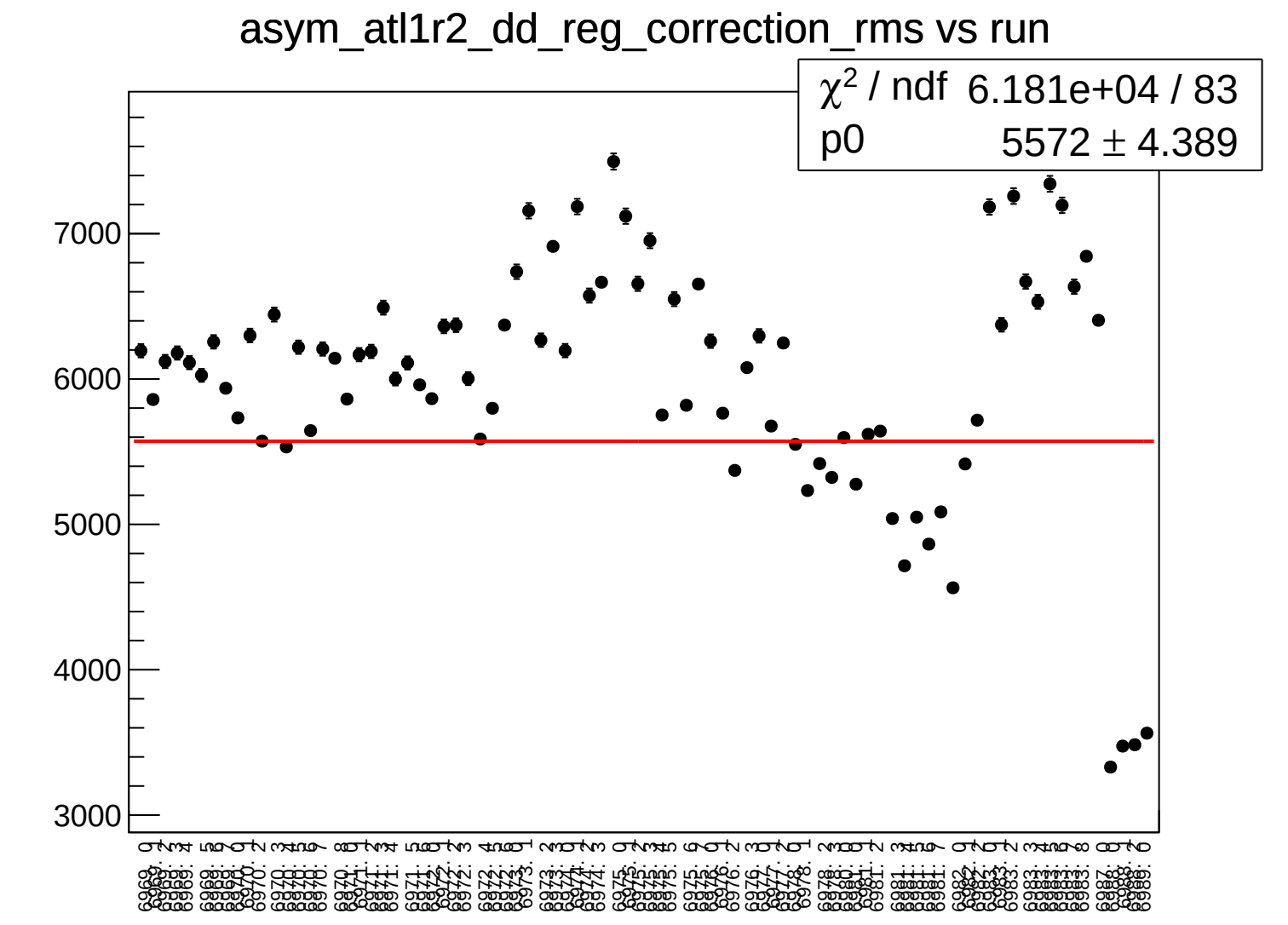

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 90.76 / 83
p0 −844.7 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −291.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4

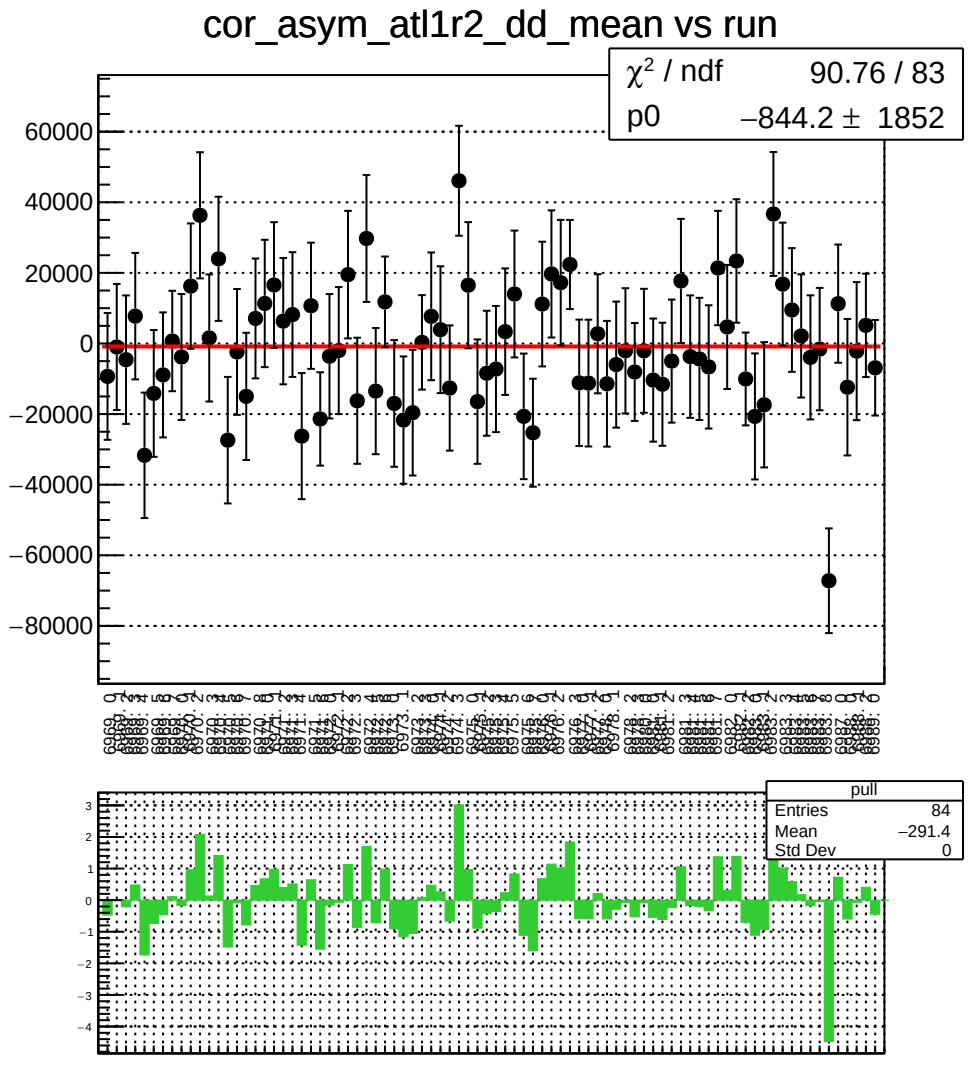

pull1D
Entries 84
Mean 0.002453
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

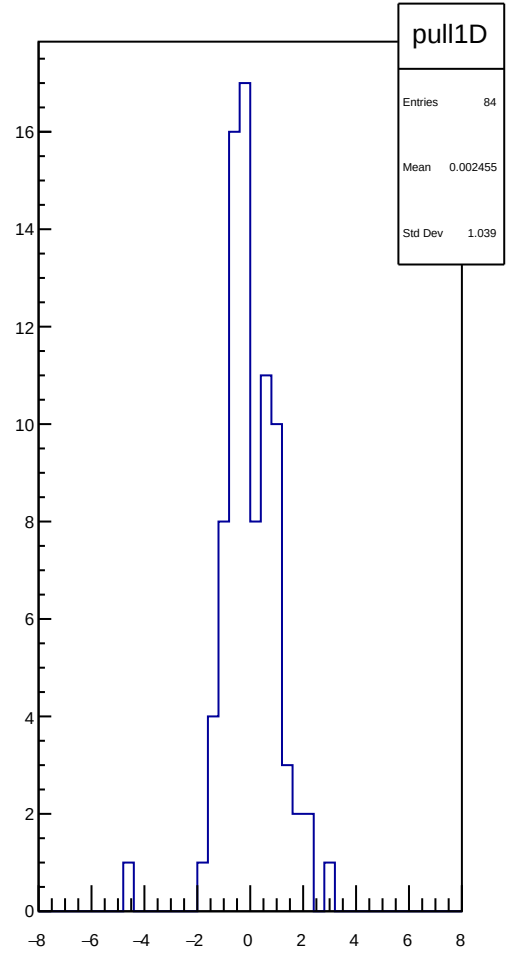

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 958.7 / 83
p0 1694 ± 1.31
1850
1800
1750
1700
1650

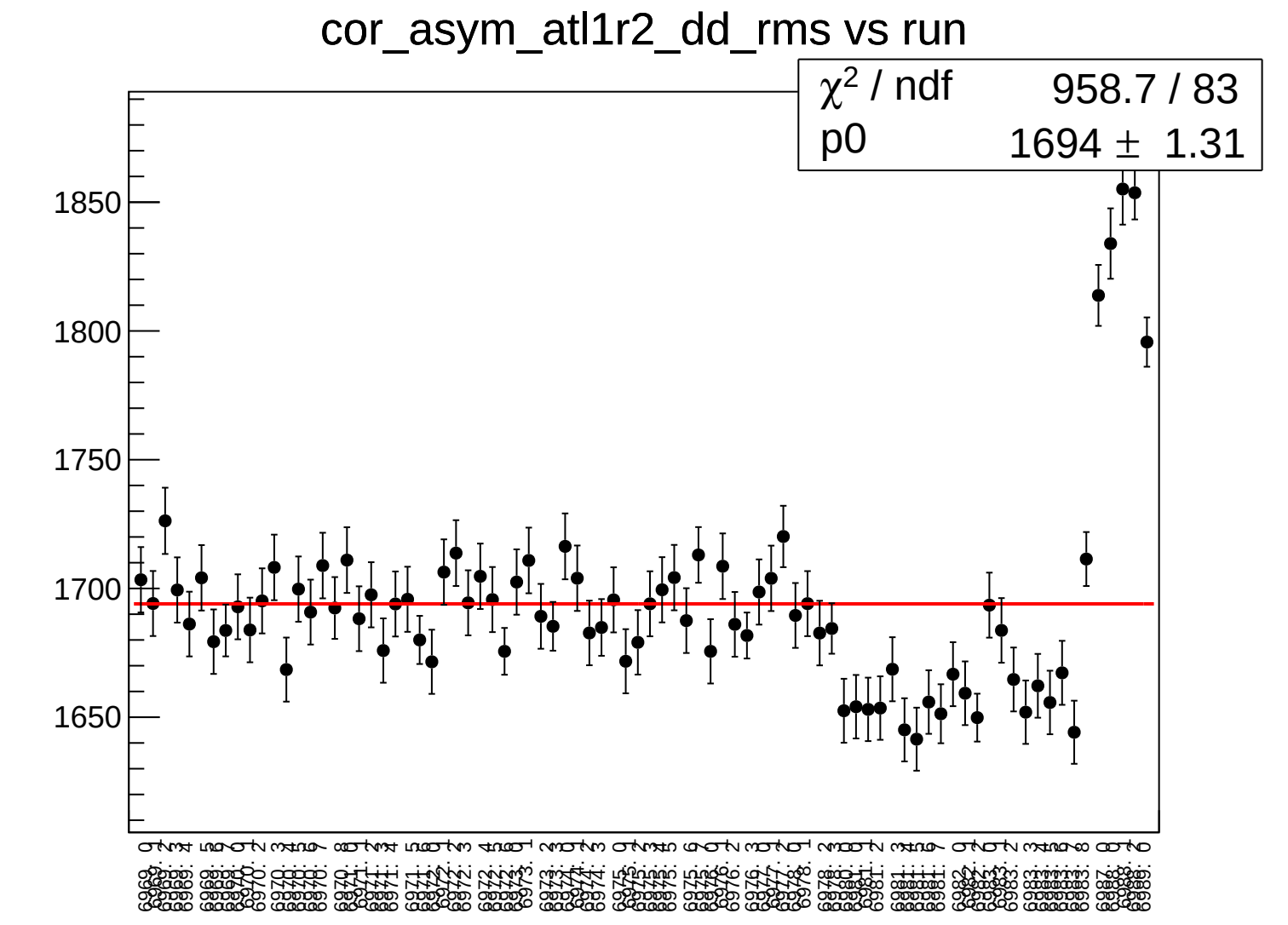

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 109.6 / 83
p0 7361 ± 6207
pull
Entries 84
Mean −36.86
Std Dev 0

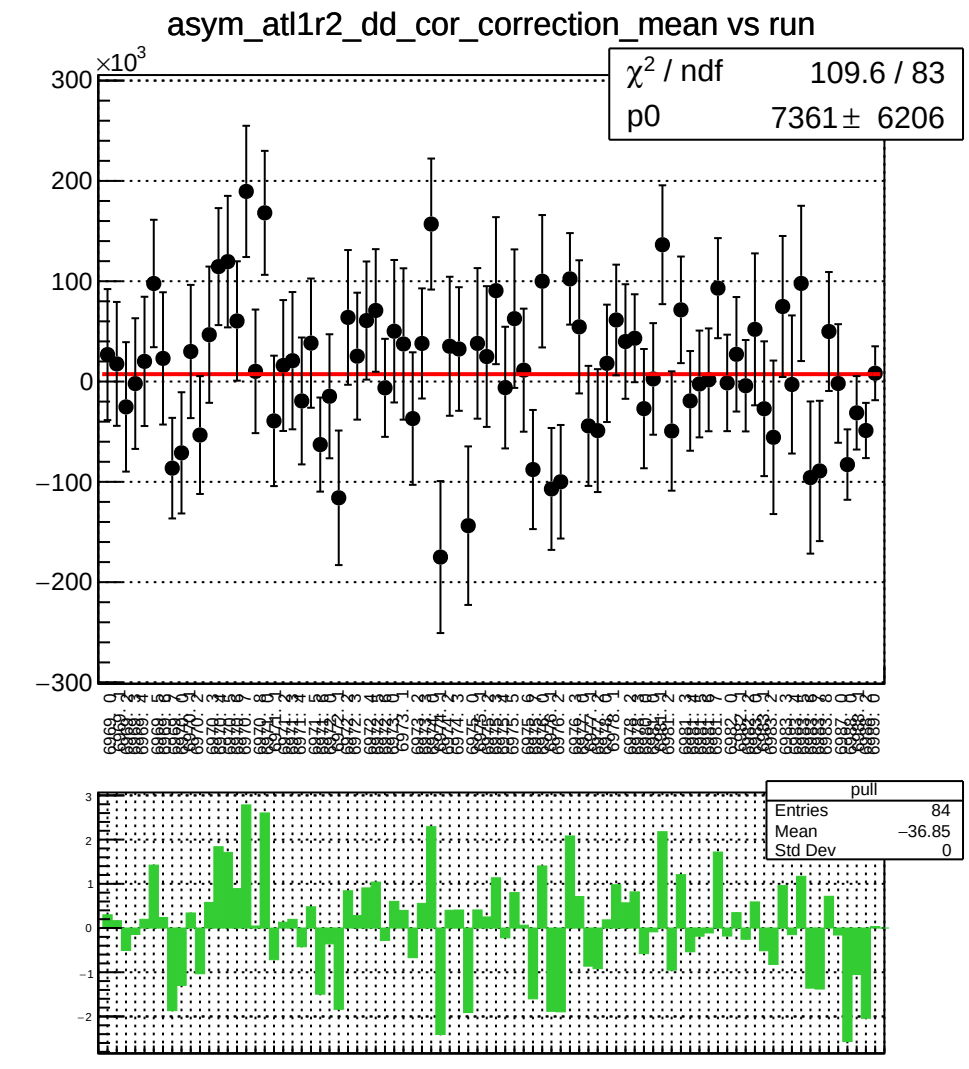

pull1D
Entries 84
Mean 0.05626
Std Dev 1.141

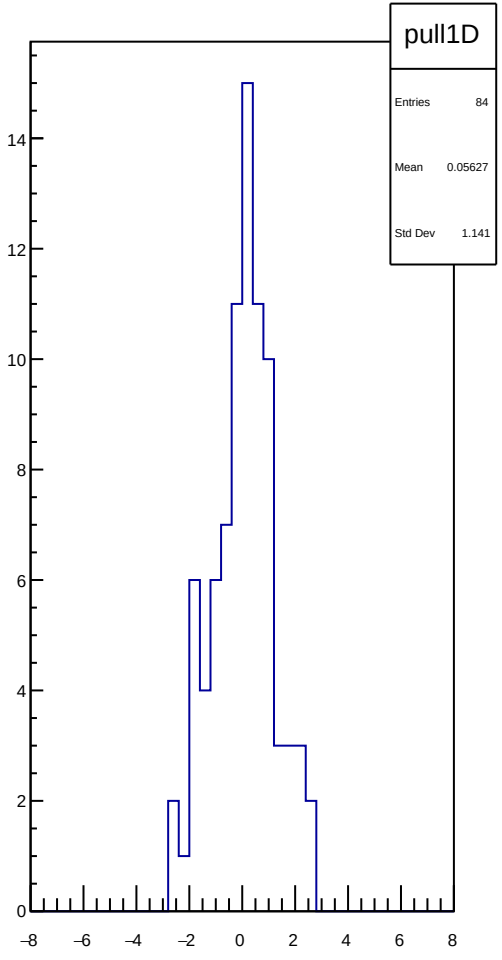

asym_atl1r2_dd_reg_correction_rms vs run
χ^2 / ndf 6.181e+04 / 83
p0 5572 ± 4.389
7000
6000
5000
4000
3000

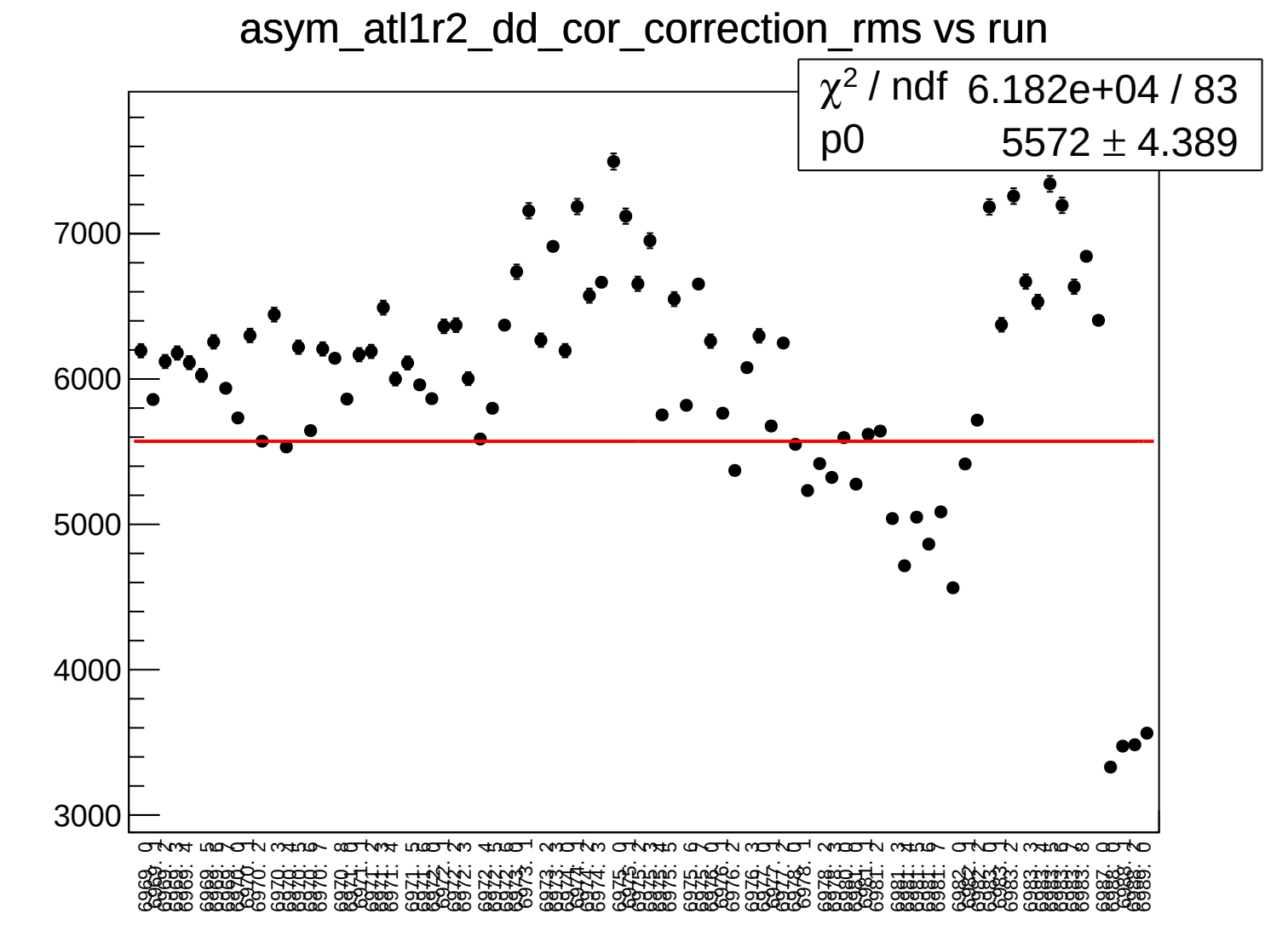

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 90.76 / 83
p0 −844.2 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −291.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4

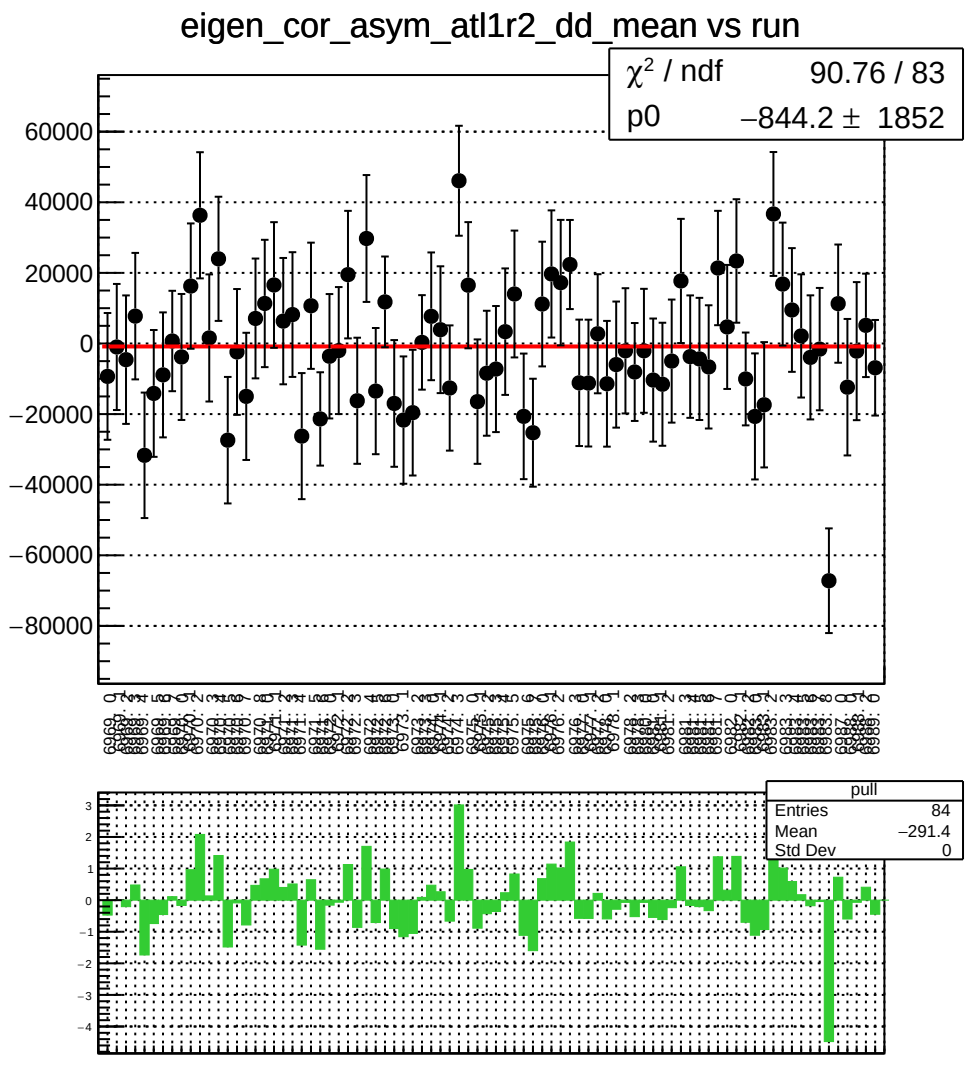

pull1D
Entries 84
Mean 0.002455
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

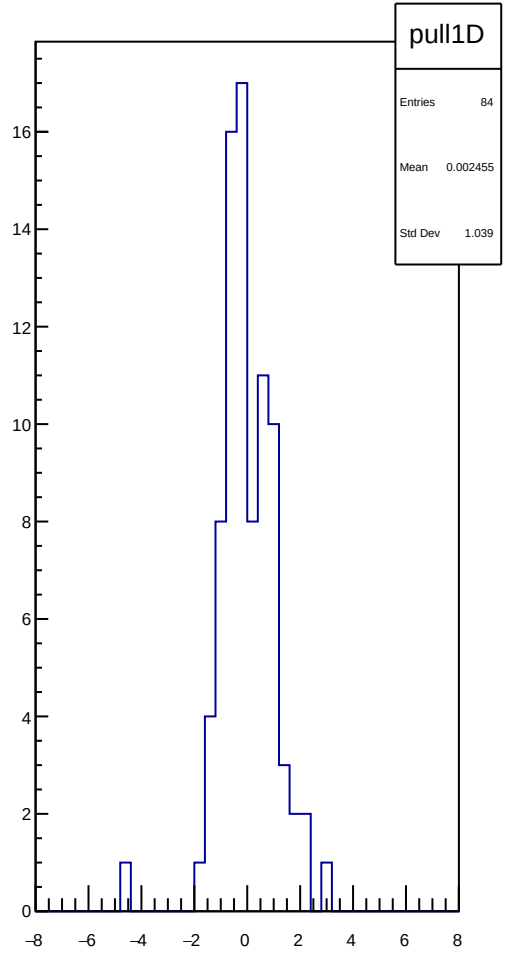

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 958.7 / 83
p0 1694 ± 1.31
1850
1800
1750
1700
1650

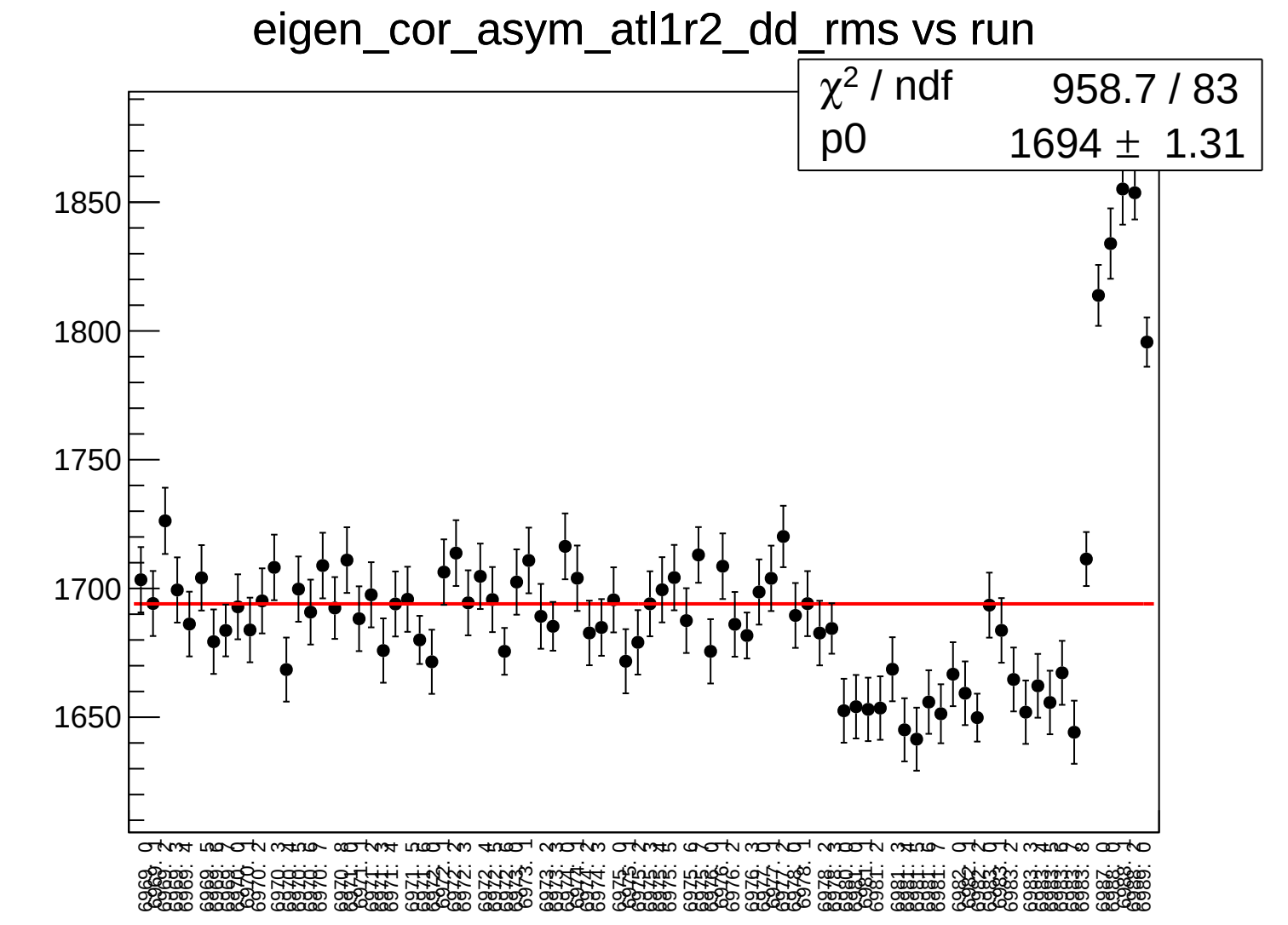

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 109.6 / 83
p0 7361 ± 6206
pull
Entries 84
Mean −36.85
Std Dev 0

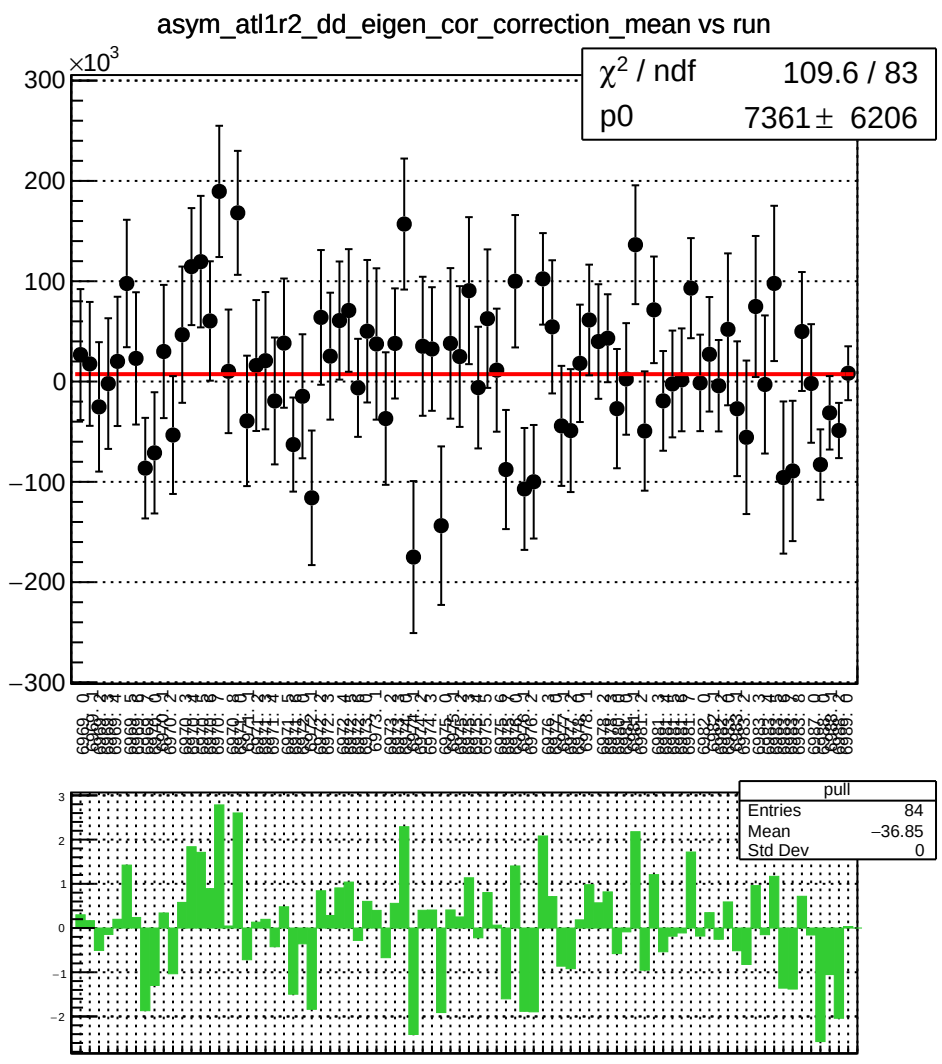

pull1D
Entries 84
Mean 0.05627
Std Dev 1.141

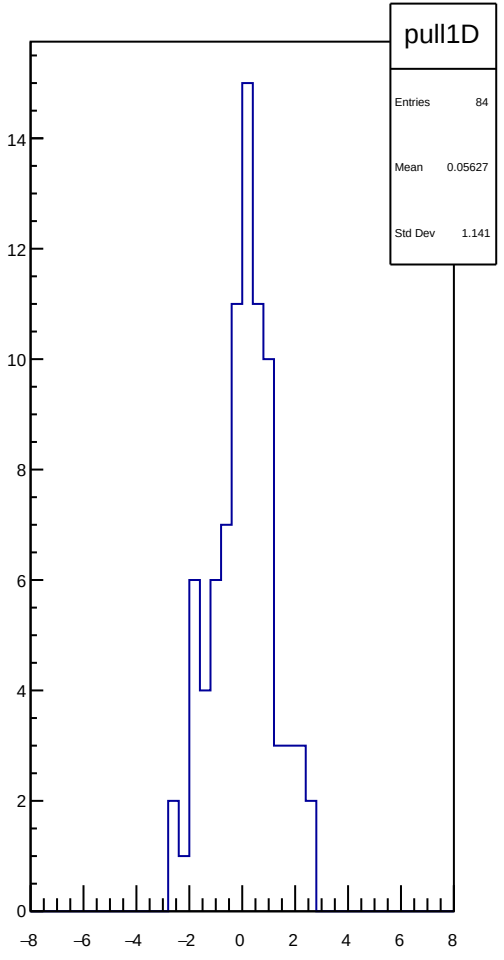

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 6.182e+04 / 83
p0 5572 ± 4.389
7000
6000
5000
4000
3000

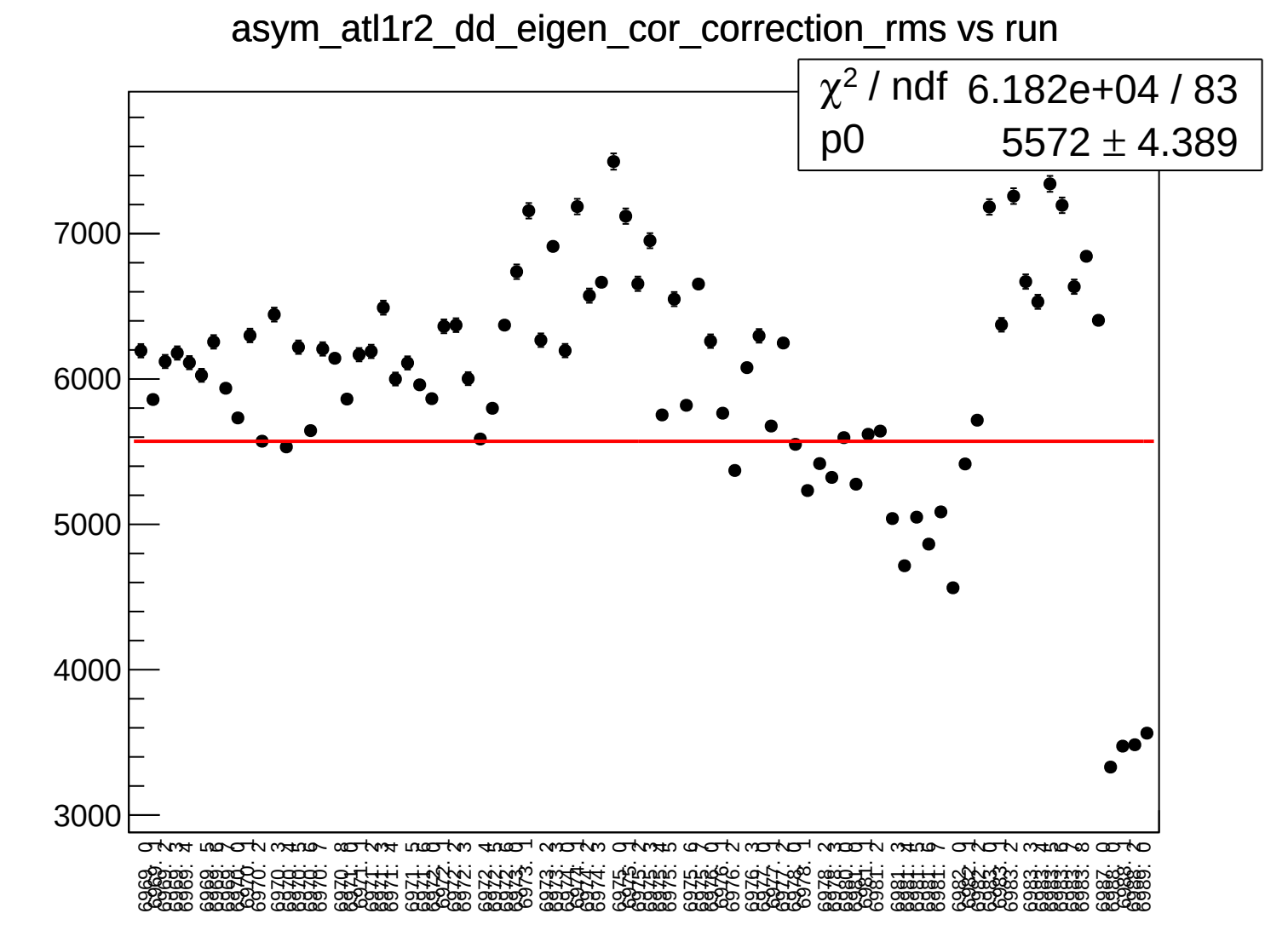

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 90.76 / 83
p0 −844.2 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −291.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4

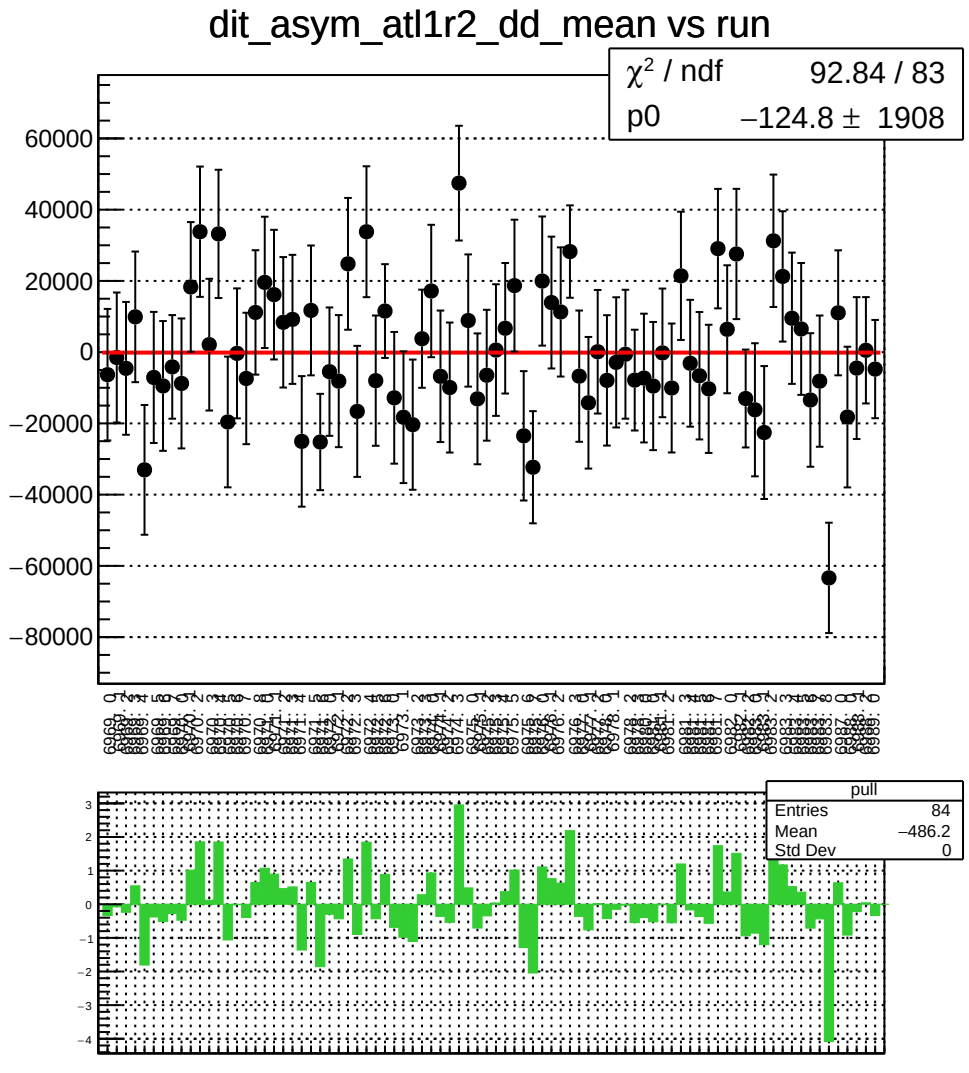

pull1D
Entries 84
Mean 0.002455
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

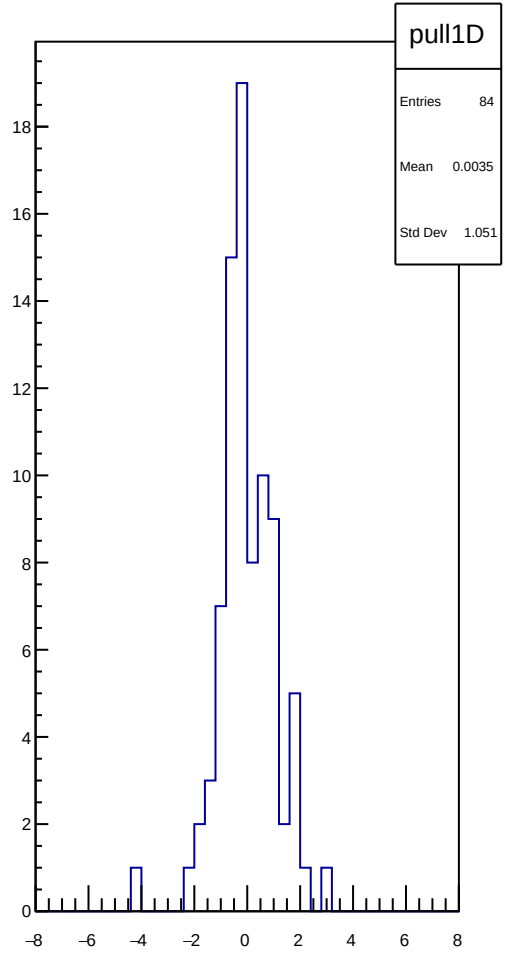

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 958.7 / 83
p0 1694 ± 1.31
1850
1800
1750
1700
1650

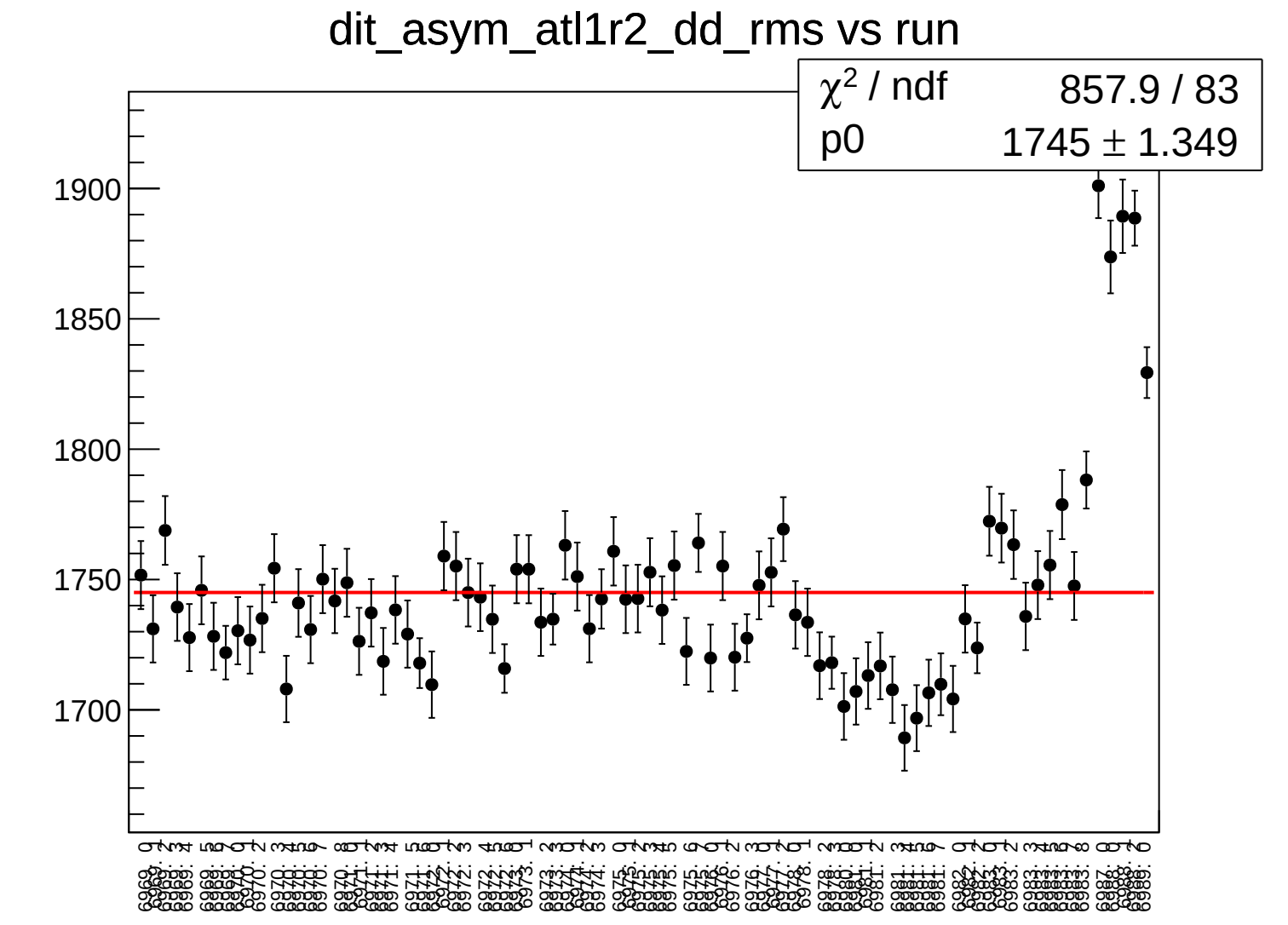

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 109.6 / 83
p0 7361 ± 6206
pull
Entries 84
Mean −36.85
Std Dev 0

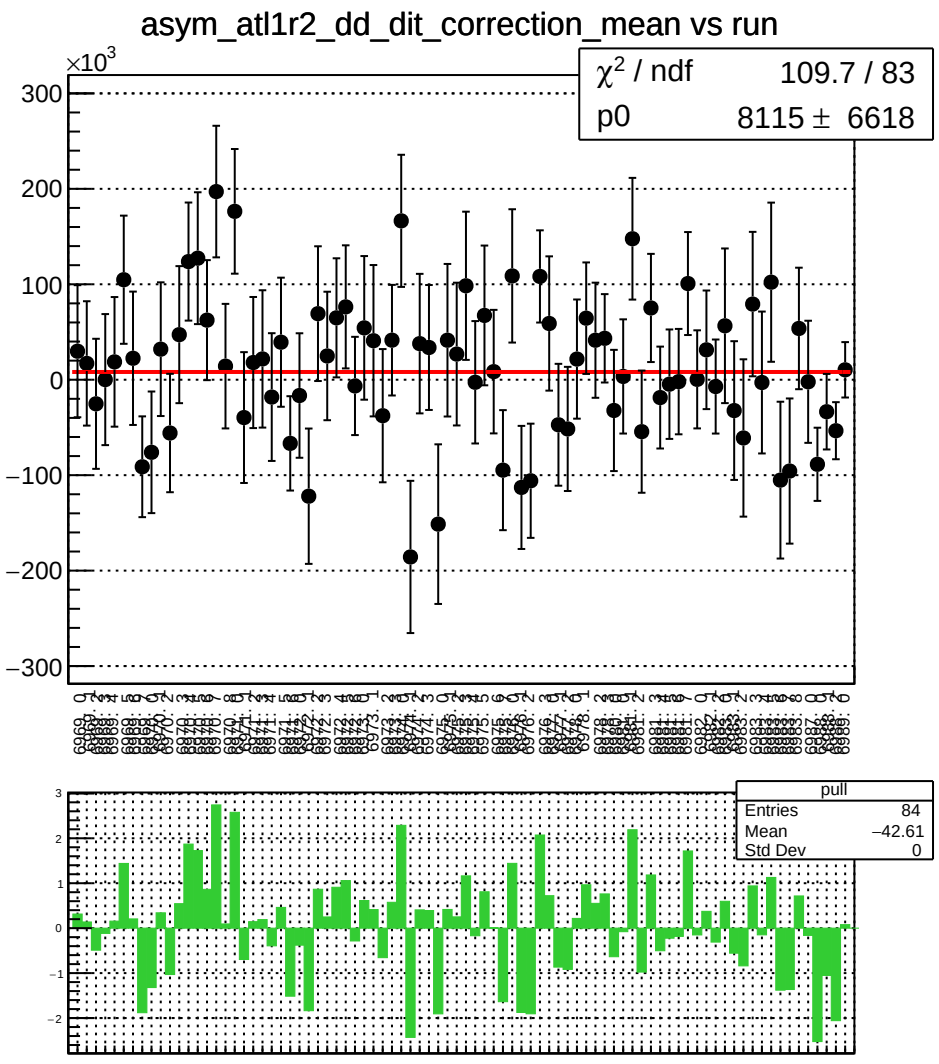

pull1D
Entries 84
Mean 0.05627
Std Dev 1.141

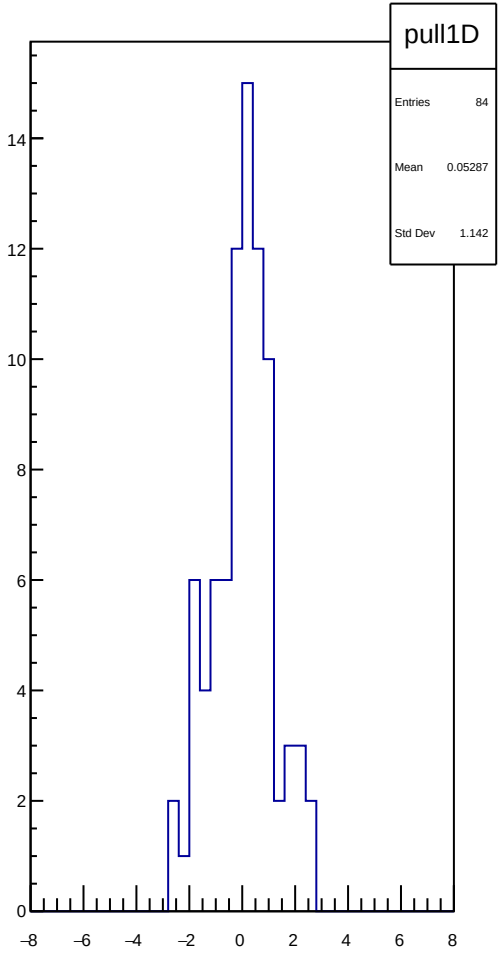

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.182e+04 / 83
p0 5572 ± 4.389
7000
6000
5000
4000
3000

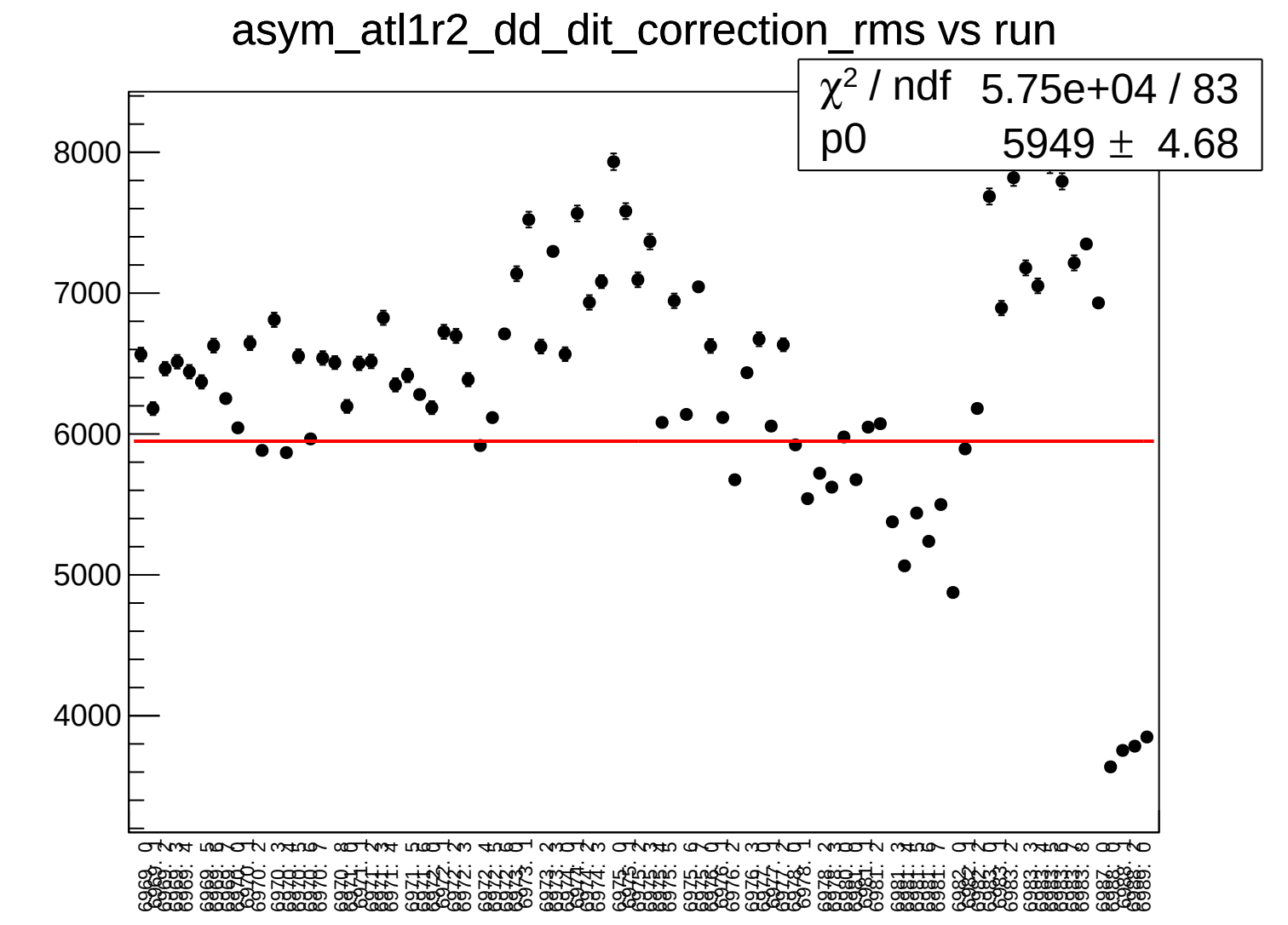

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 92.84 / 83
p0 −124.8 ± 1908
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −486.2
Std Dev 0
3
2
1
0
−1
−2
−3
−4

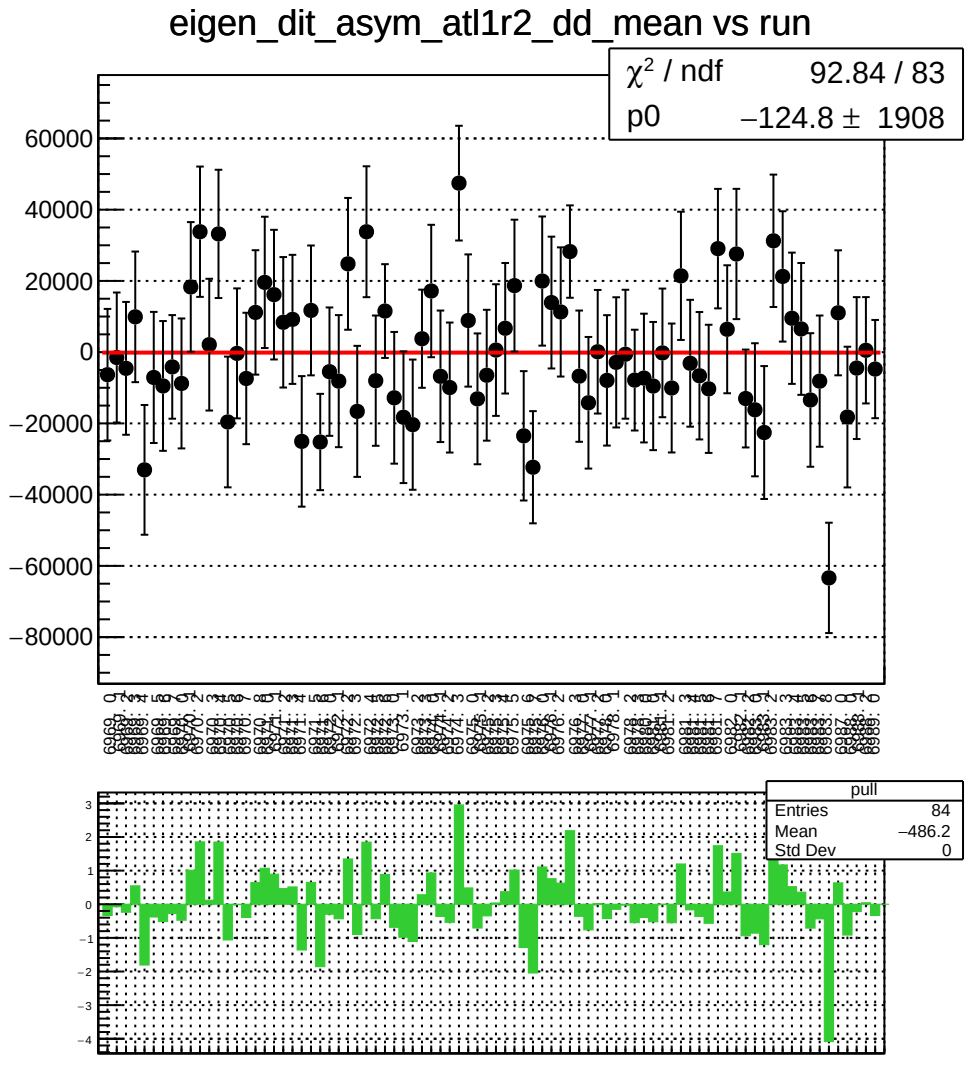

pull1D
Entries 84
Mean 0.0035
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

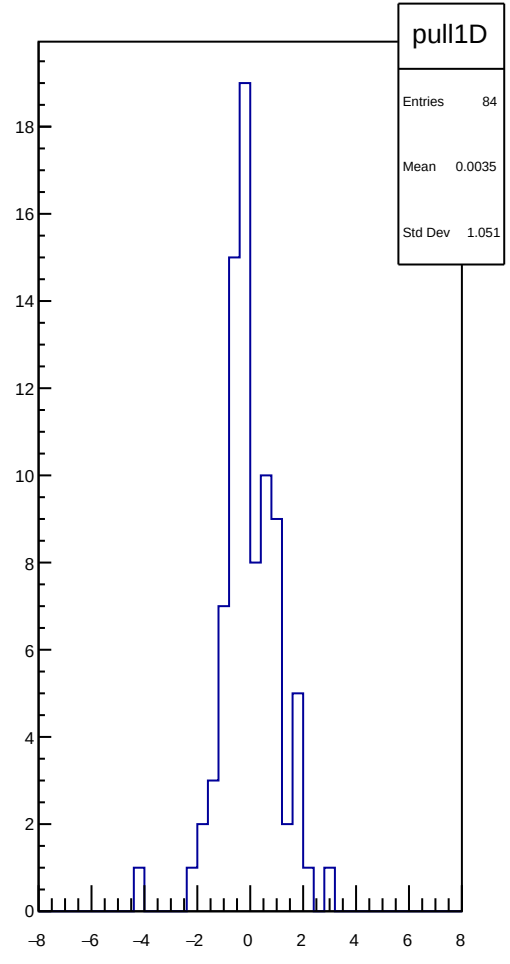

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 857.9 / 83
p0 1745 ± 1.349
1900
1850
1800
1750
1700

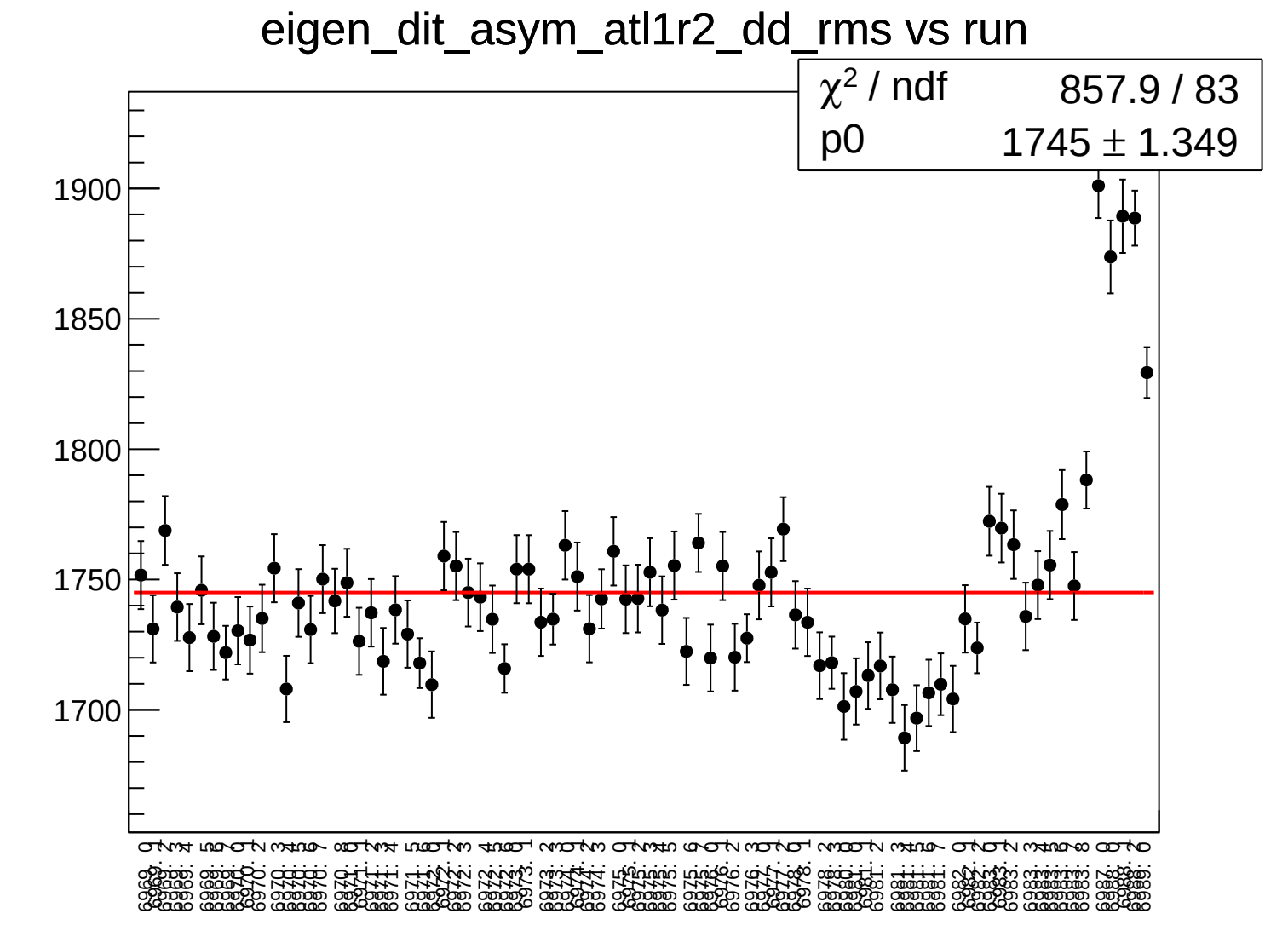

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 109.7 / 83
p0 8115 ± 6618
pull
Entries 84
Mean −42.61
Std Dev 0

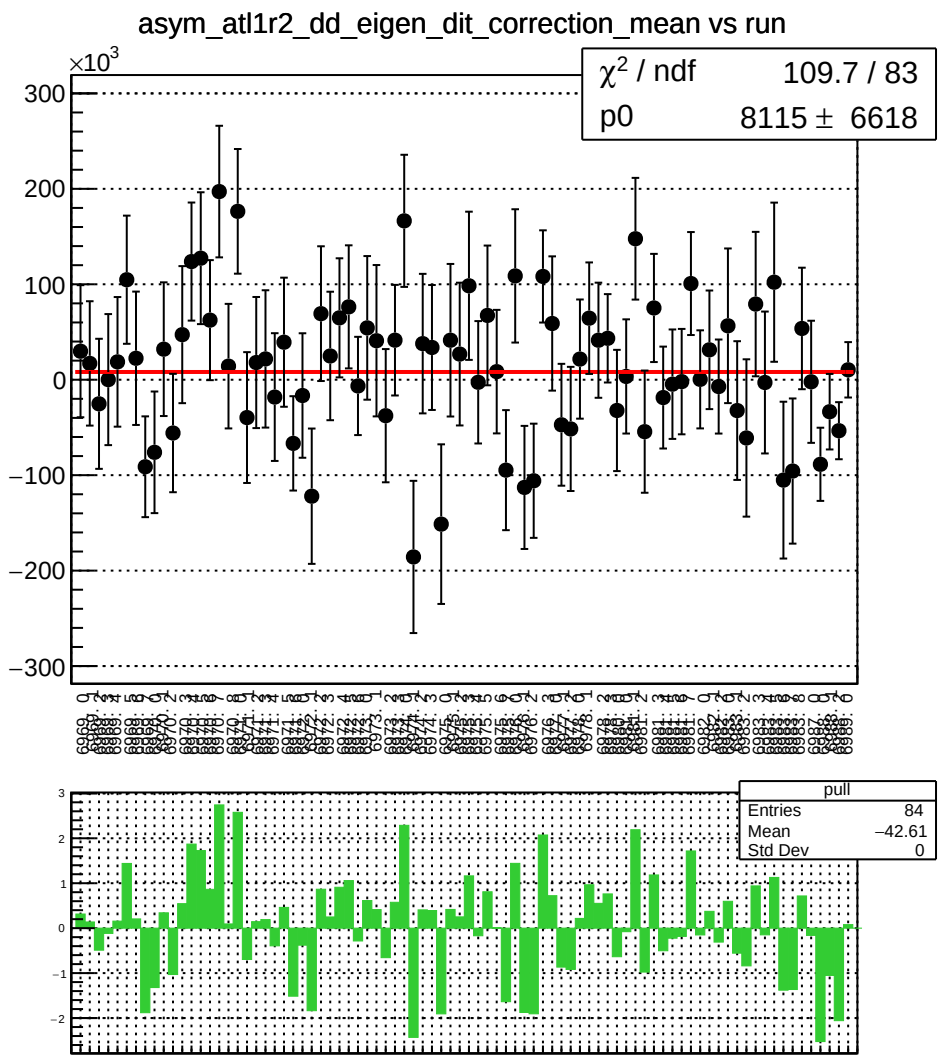

pull1D
Entries 84
Mean 0.05287
Std Dev 1.142

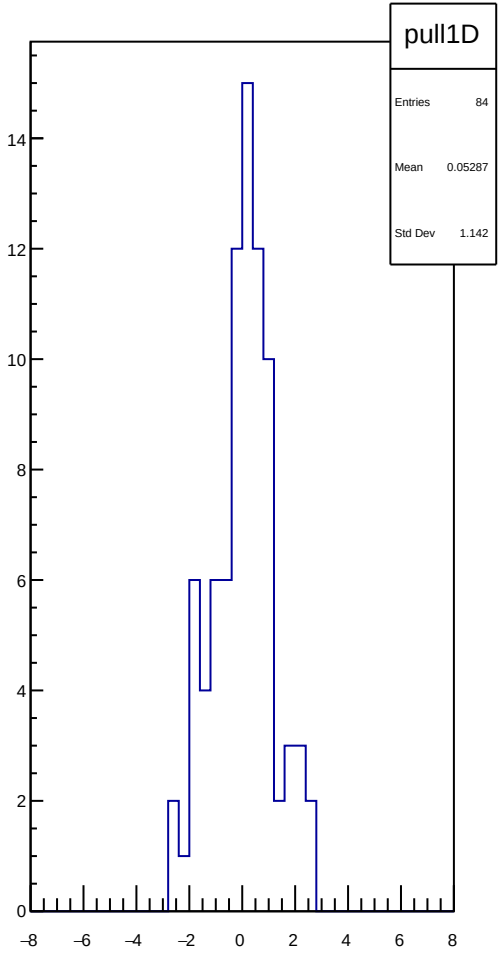

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 5.75e+04 / 83
p0 5949 ± 4.68
8000
7000
6000
5000
4000

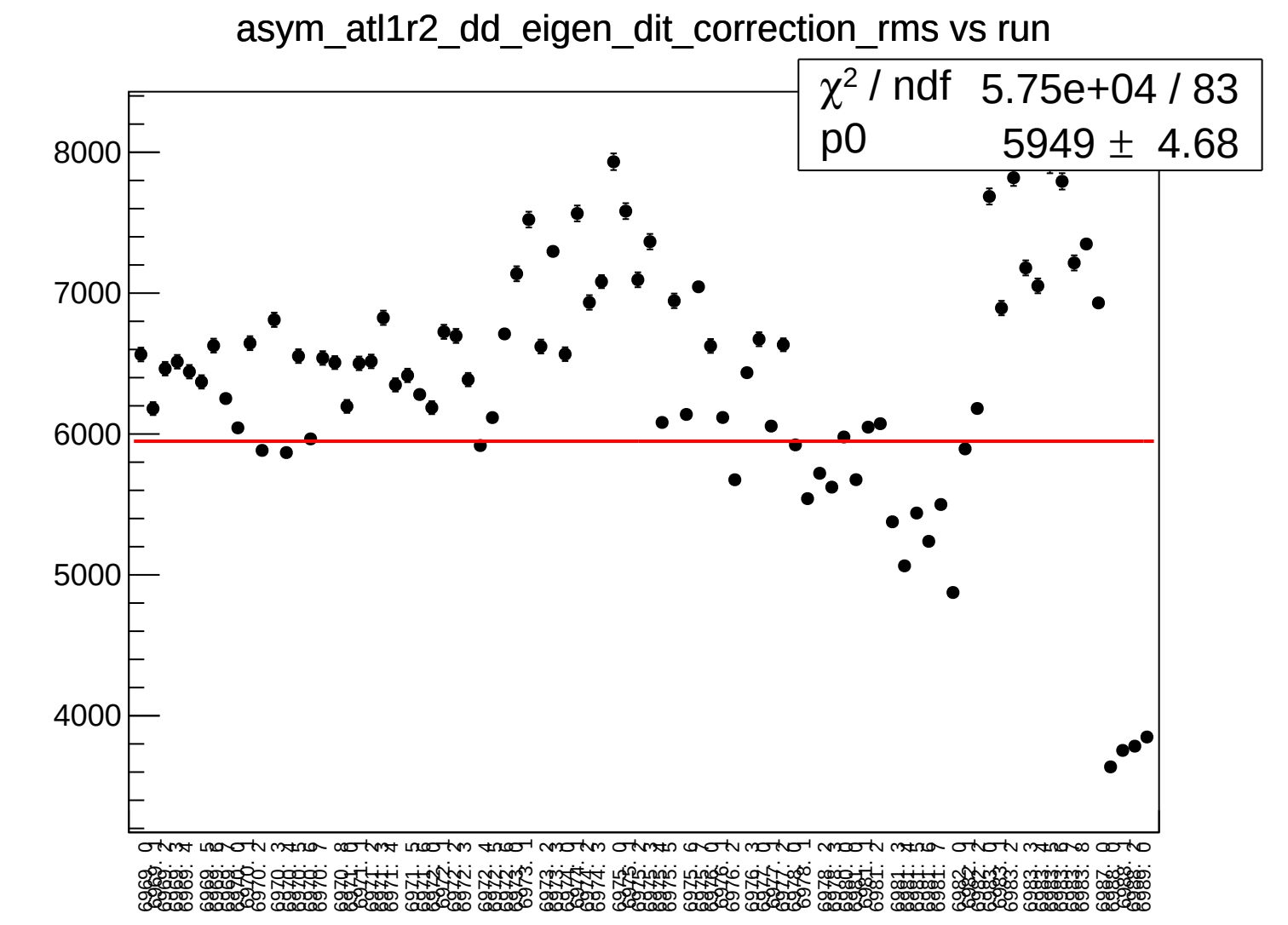

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 92.84 / 83
p0 −124.8 ± 1908
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −486.2
Std Dev 0
3
2
1
0
−1
−2
−3
−4

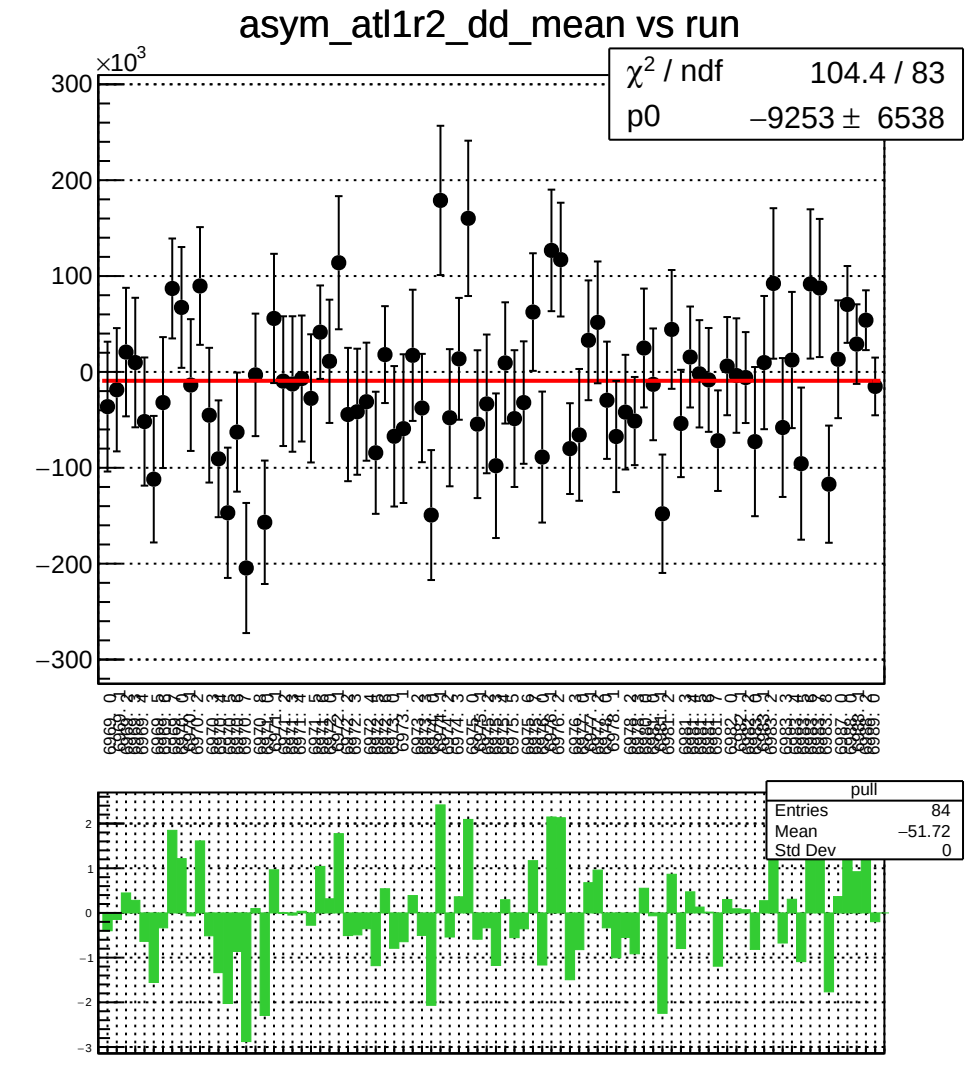

pull1D
Entries 84
Mean 0.0035
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

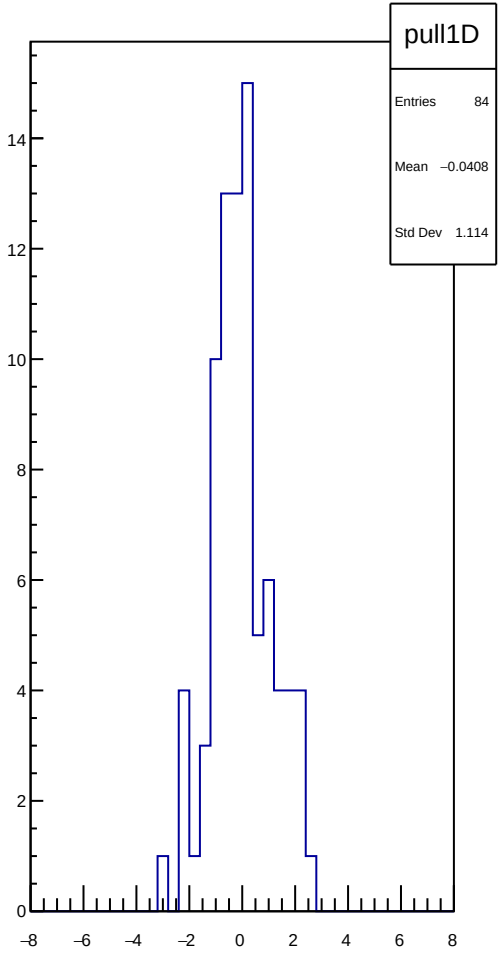

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 857.9 / 83
p0 1745 ± 1.349
1900
1850
1800
1750
1700

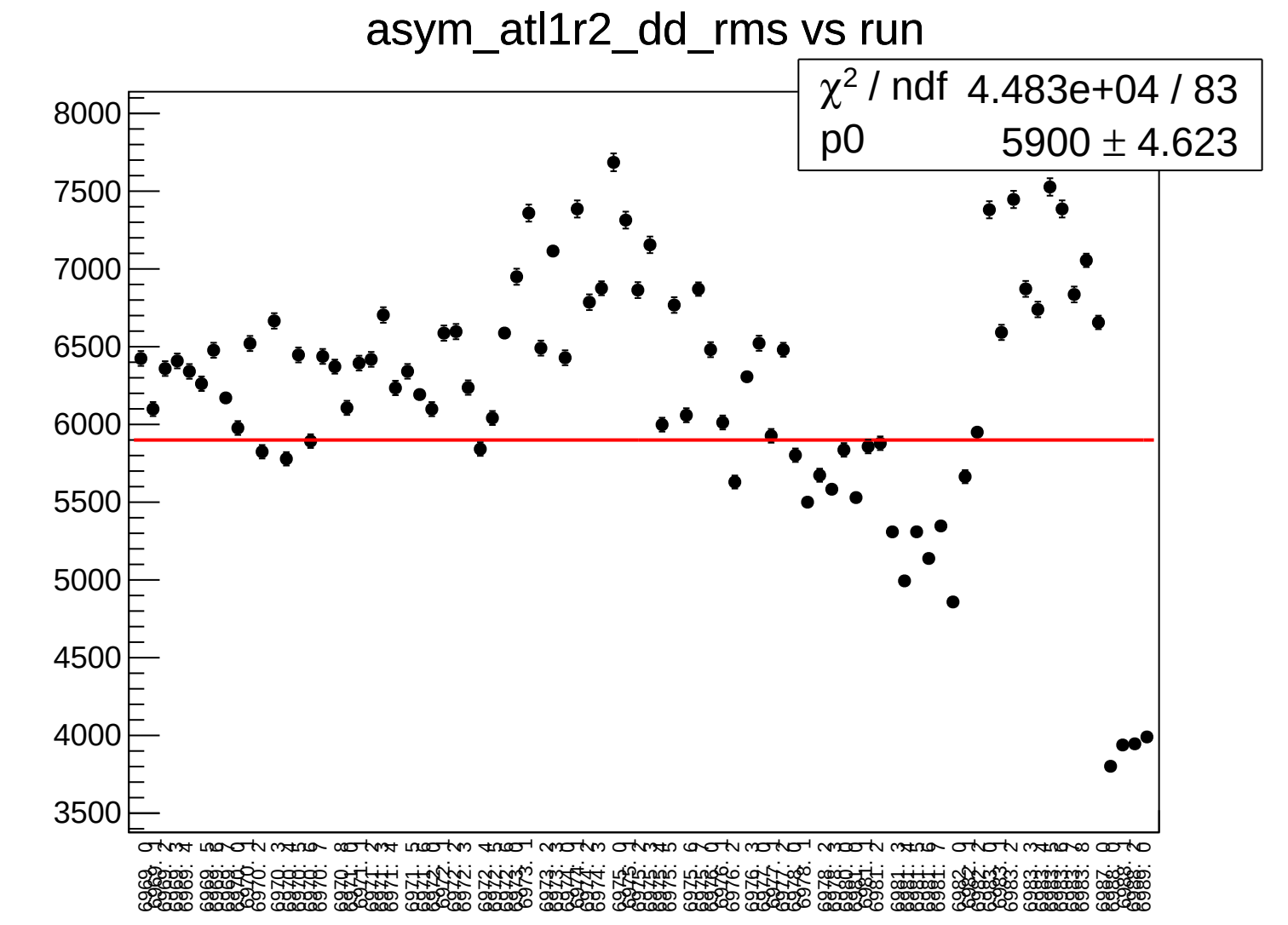

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 109.7 / 83
p0 8115 ± 6618
pull
Entries 84
Mean −42.61
Std Dev 0

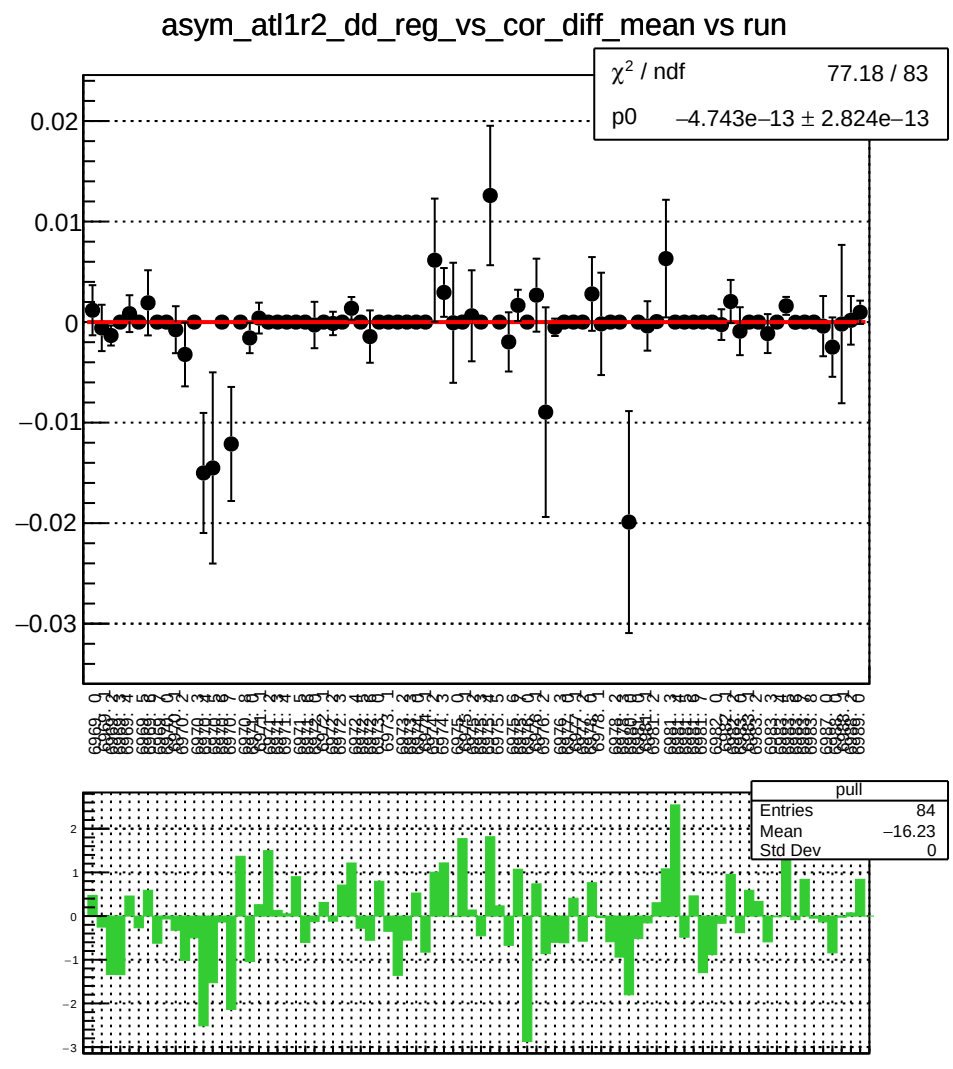

pull1D
Entries 84
Mean 0.05287
Std Dev 1.142

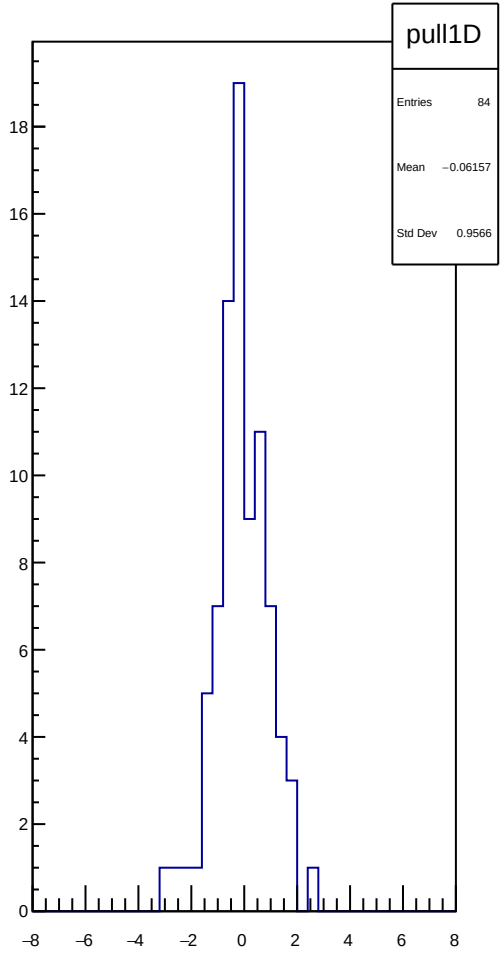

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.75e+04 / 83
p0 5949 ± 4.68
8000
7000
6000
5000
4000

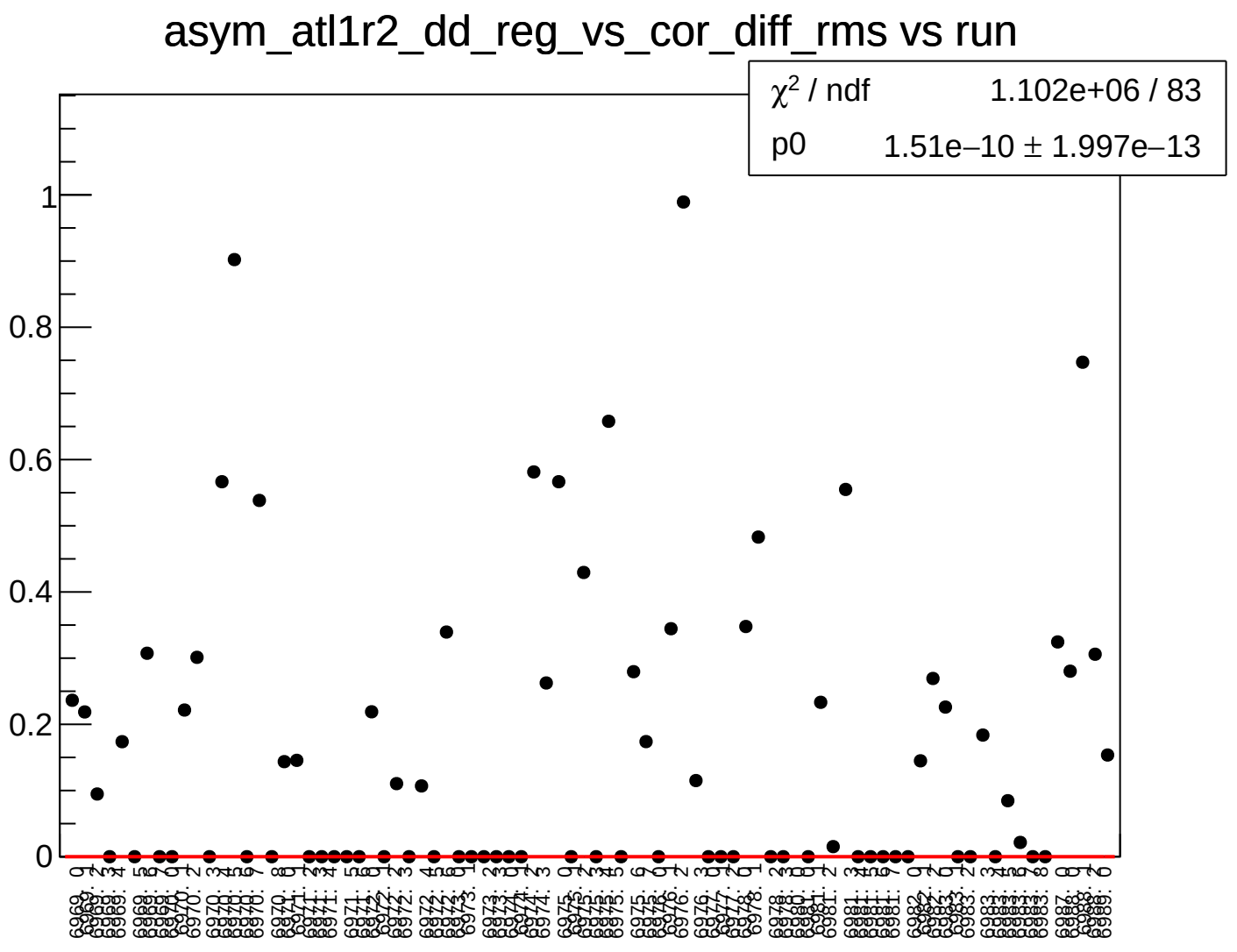

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 104.4 / 83
p0 −9253 ± 6538
pull
Entries 84
Mean −51.72
Std Dev 0

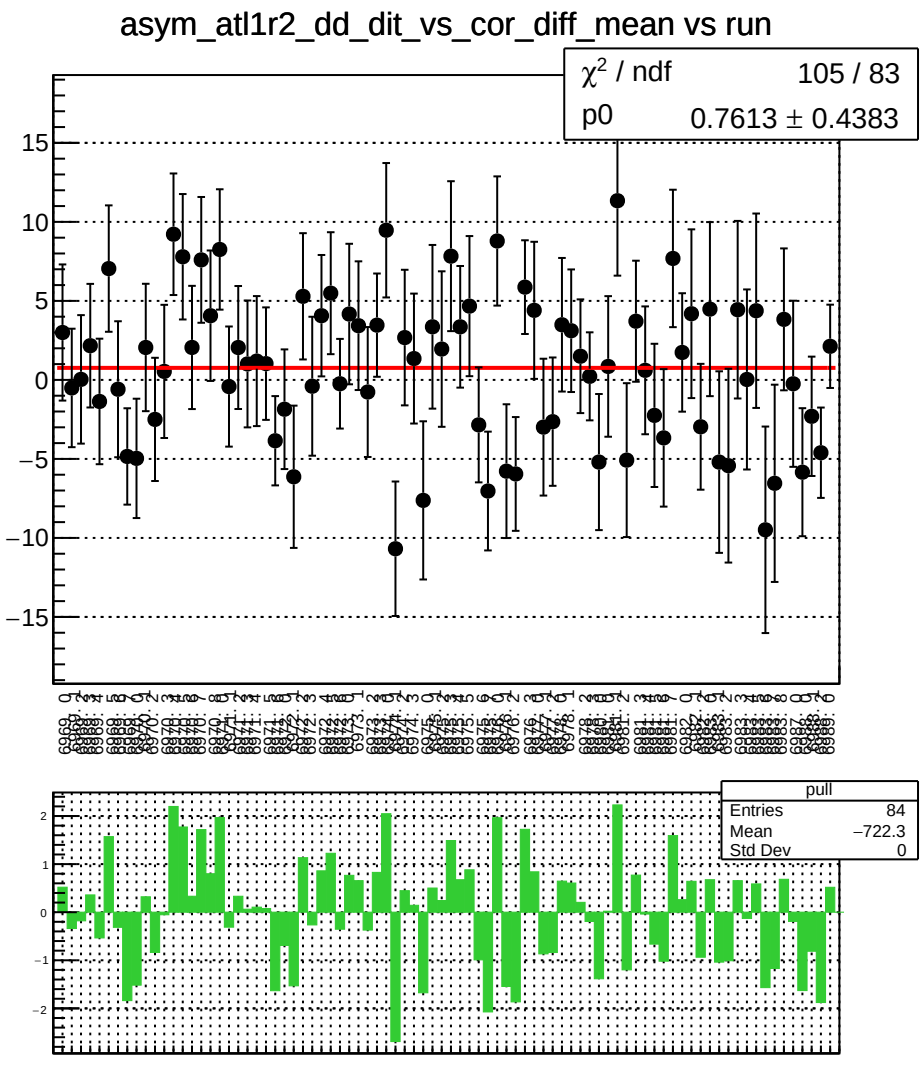

pull1D
Entries 84
Mean −0.0408
Std Dev 1.114

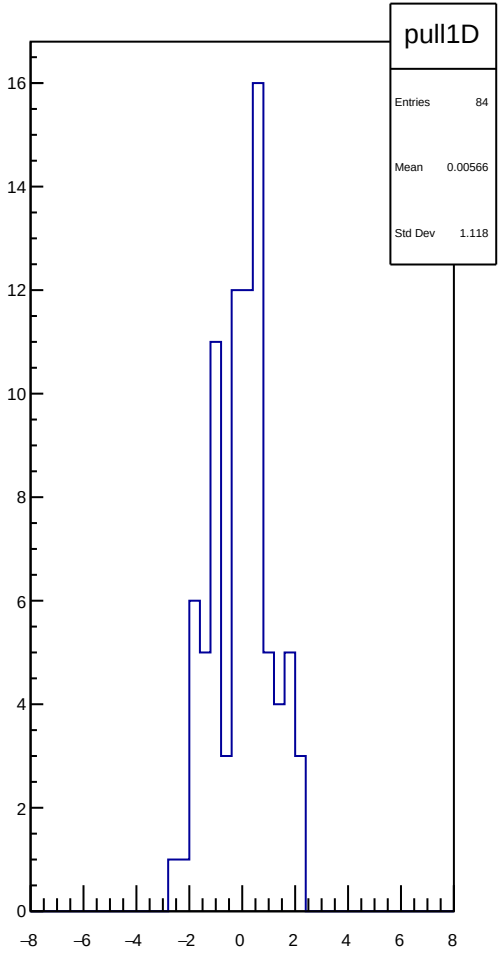

asym_atl1r2_dd_rms vs run
χ² / ndf 4.483e+04 / 83
p0 5900 ± 4.623
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500

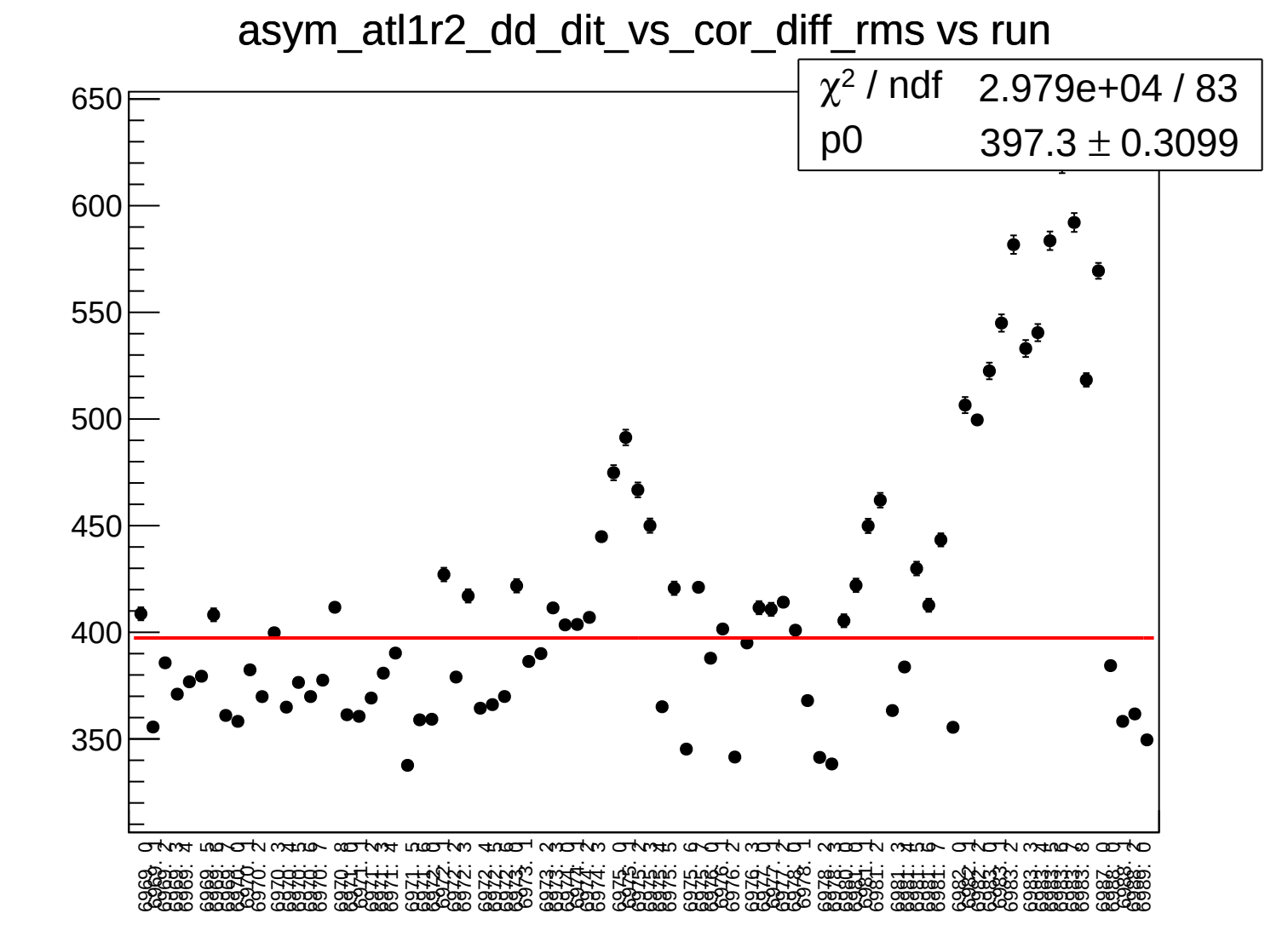

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.18 / 83
p0 −4.743e−13 ± 2.824e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean −16.23
Std Dev 0
2
1
0
−1
−2
−3

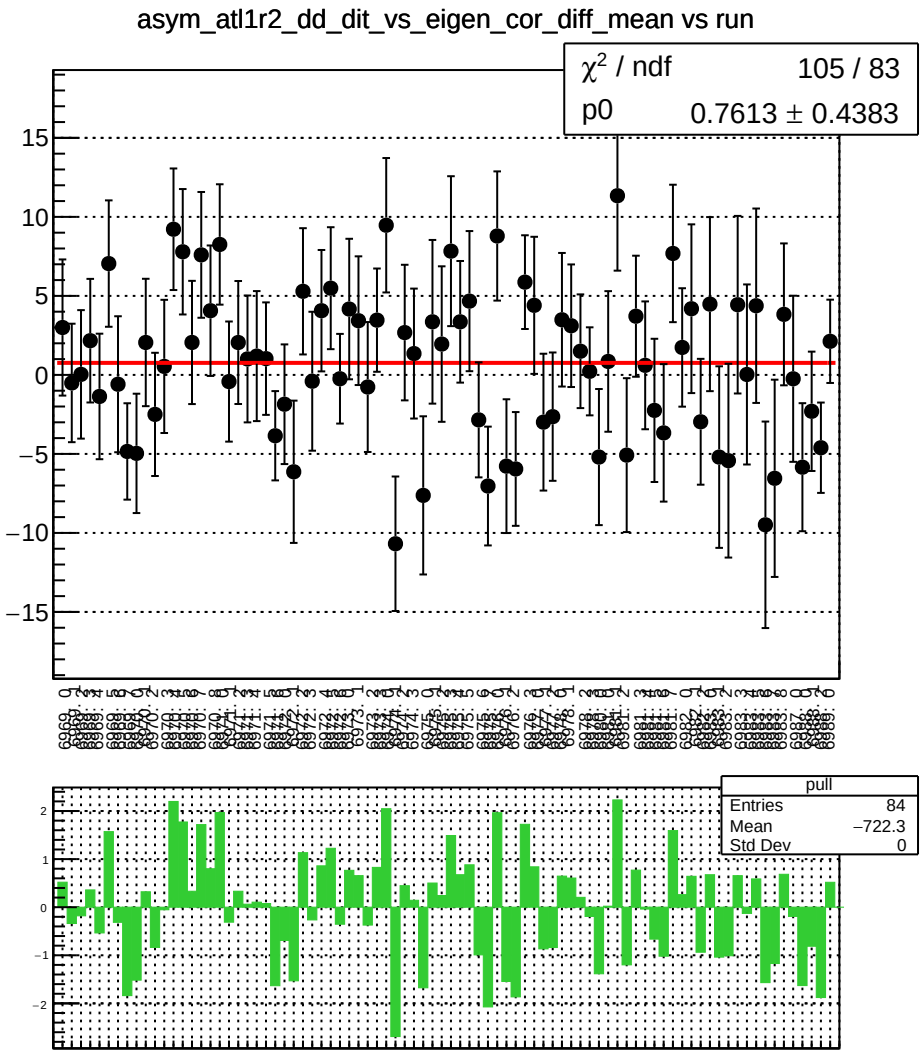

pull1D
Entries 84
Mean −0.06157
Std Dev 0.9566
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

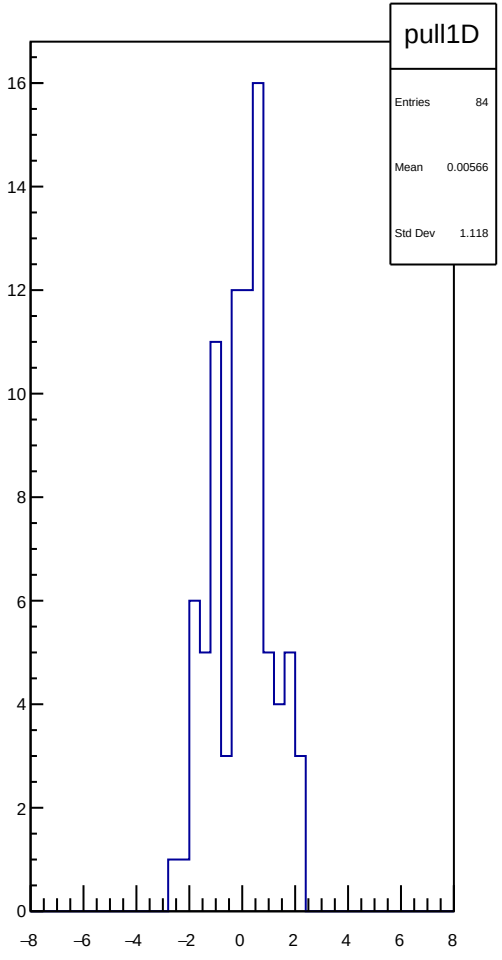

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 83
p0 1.51e−10 ± 1.997e−13
1
0.8
0.6
0.4
0.2
0

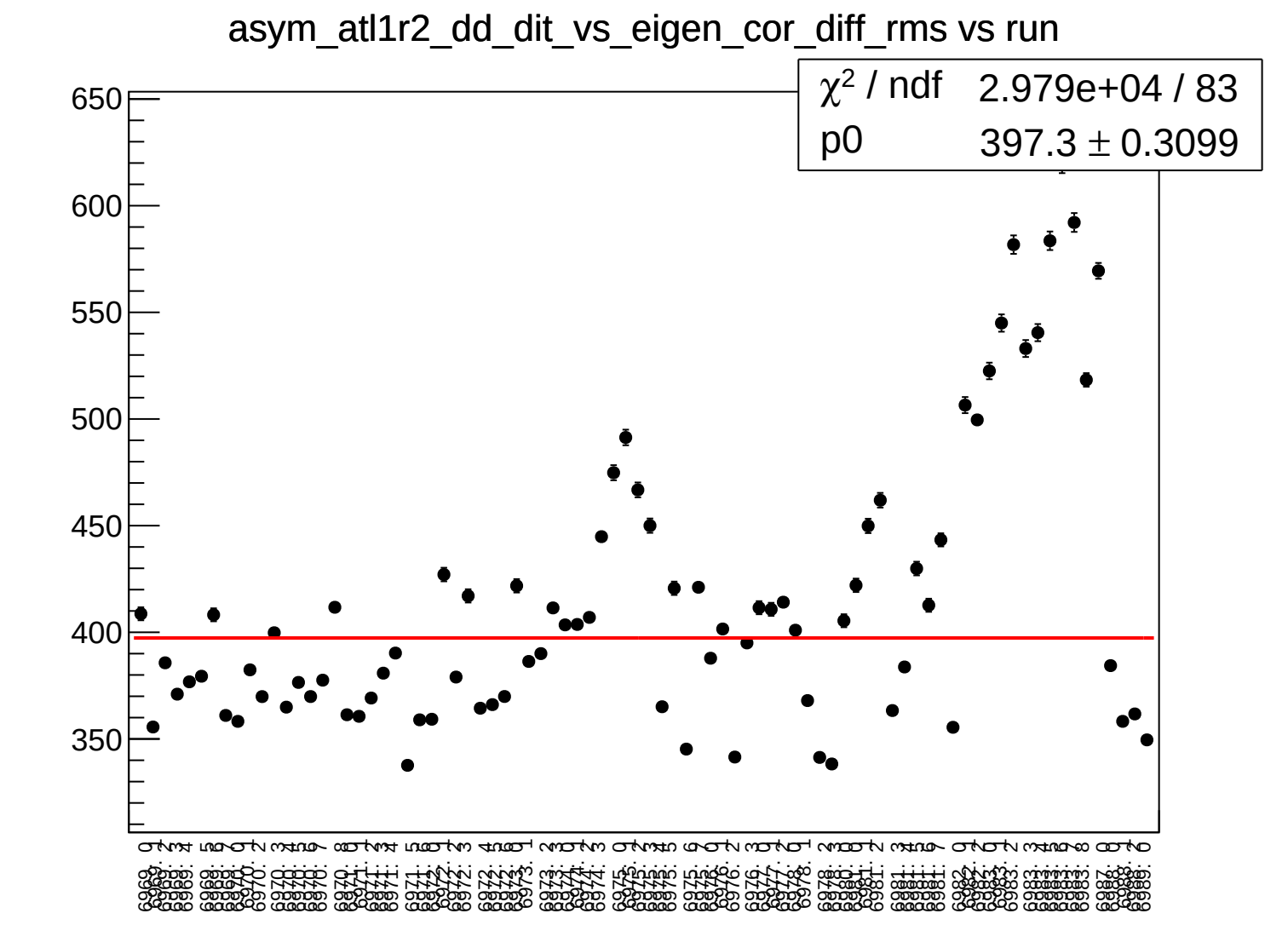

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105 / 83
p0 0.7613 ± 0.4383
pull
Entries 84
Mean −722.3
Std Dev 0

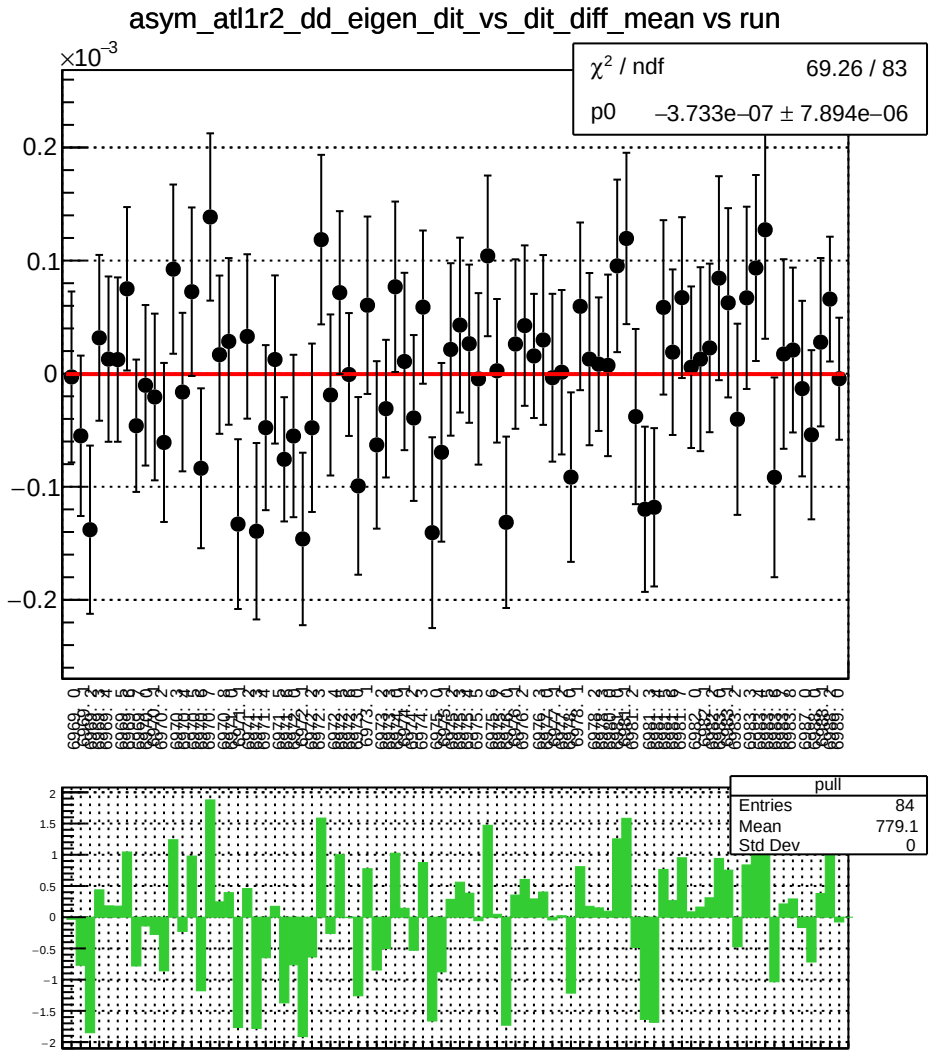

pull1D
Entries 84
Mean 0.00566
Std Dev 1.118

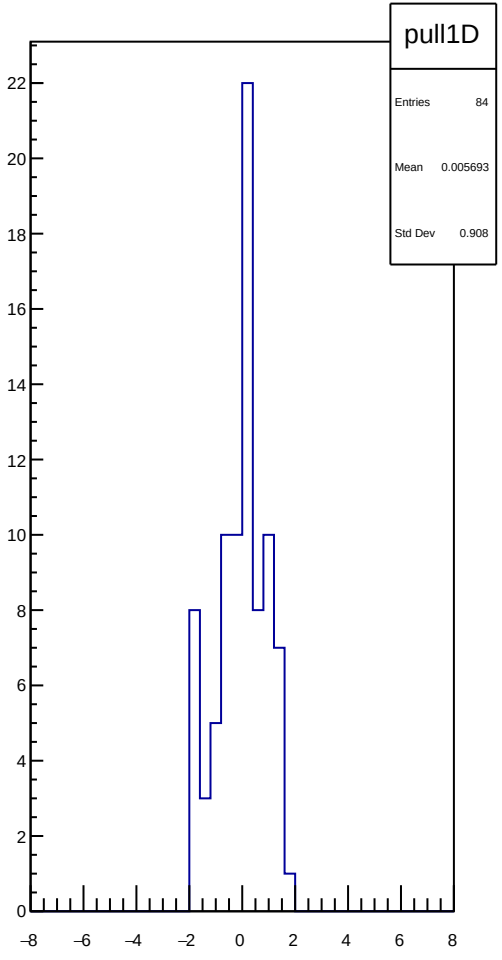

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.979e+04 / 83
p0 397.3 ± 0.3099
650
600
550
500
450
400
350

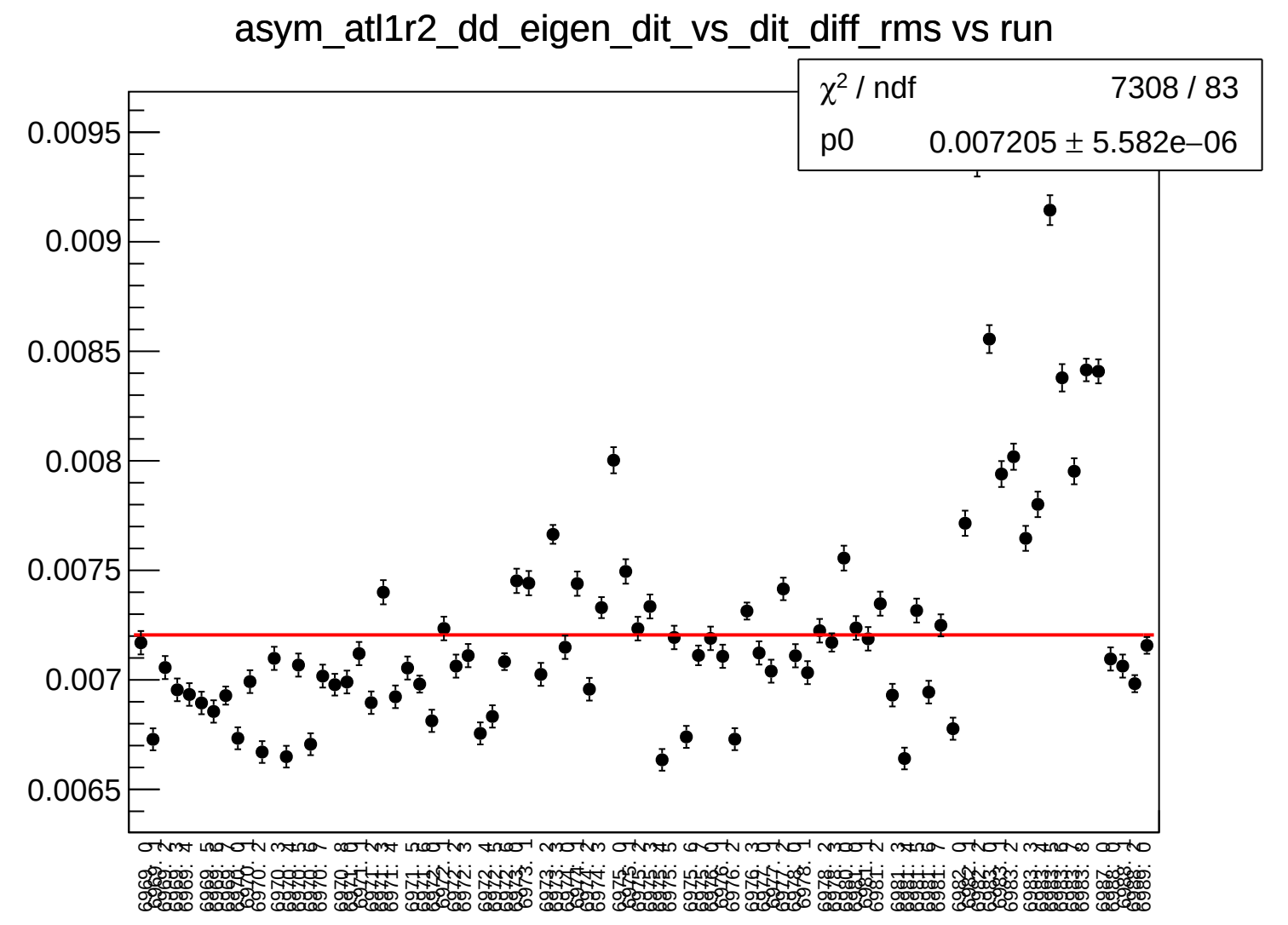

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105 / 83
p0 0.7613 ± 0.4383
pull
Entries 84
Mean −722.3
Std Dev 0

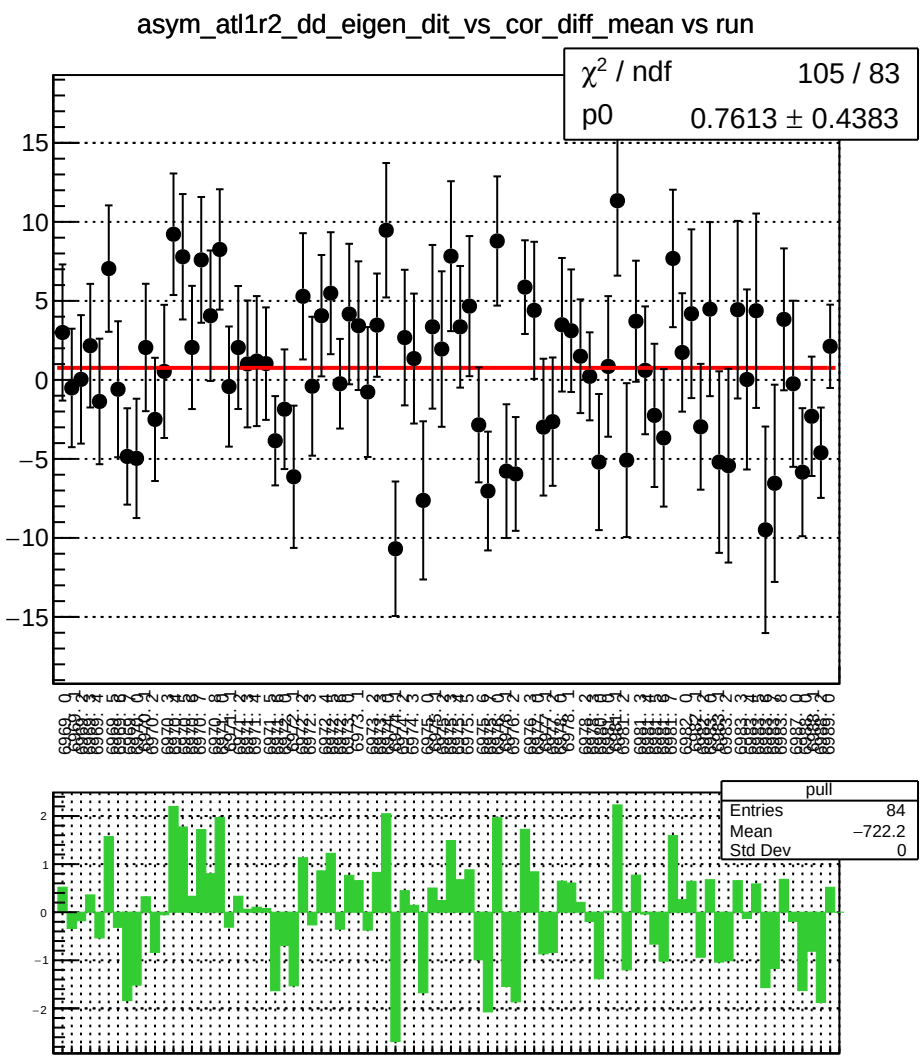

pull1D
Entries 84
Mean 0.00566
Std Dev 1.118

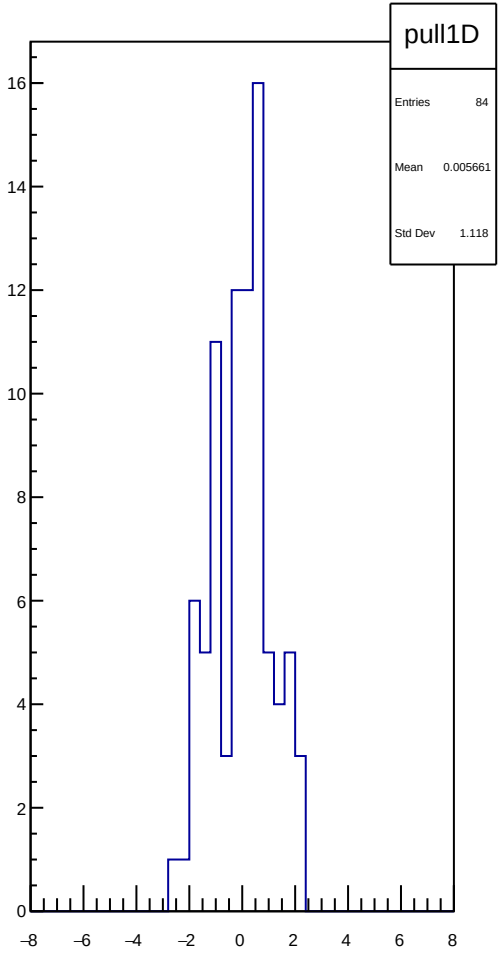

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.979e+04 / 83
p0 397.3 ± 0.3099
650
600
550
500
450
400
350

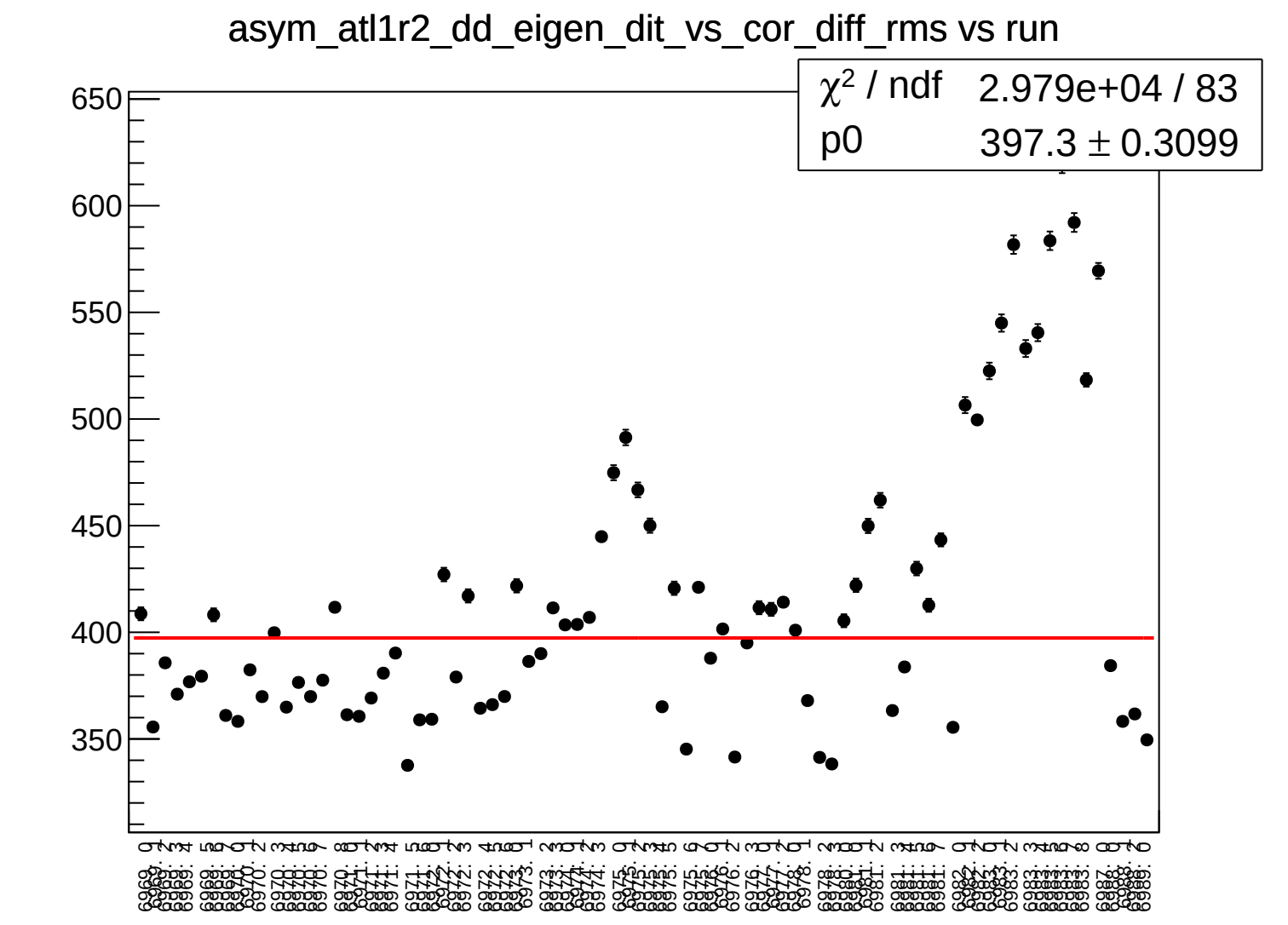

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.26 / 83
p0 −3.733e−07 ± 7.894e−06
pull
Entries 84
Mean 779.1
Std Dev 0

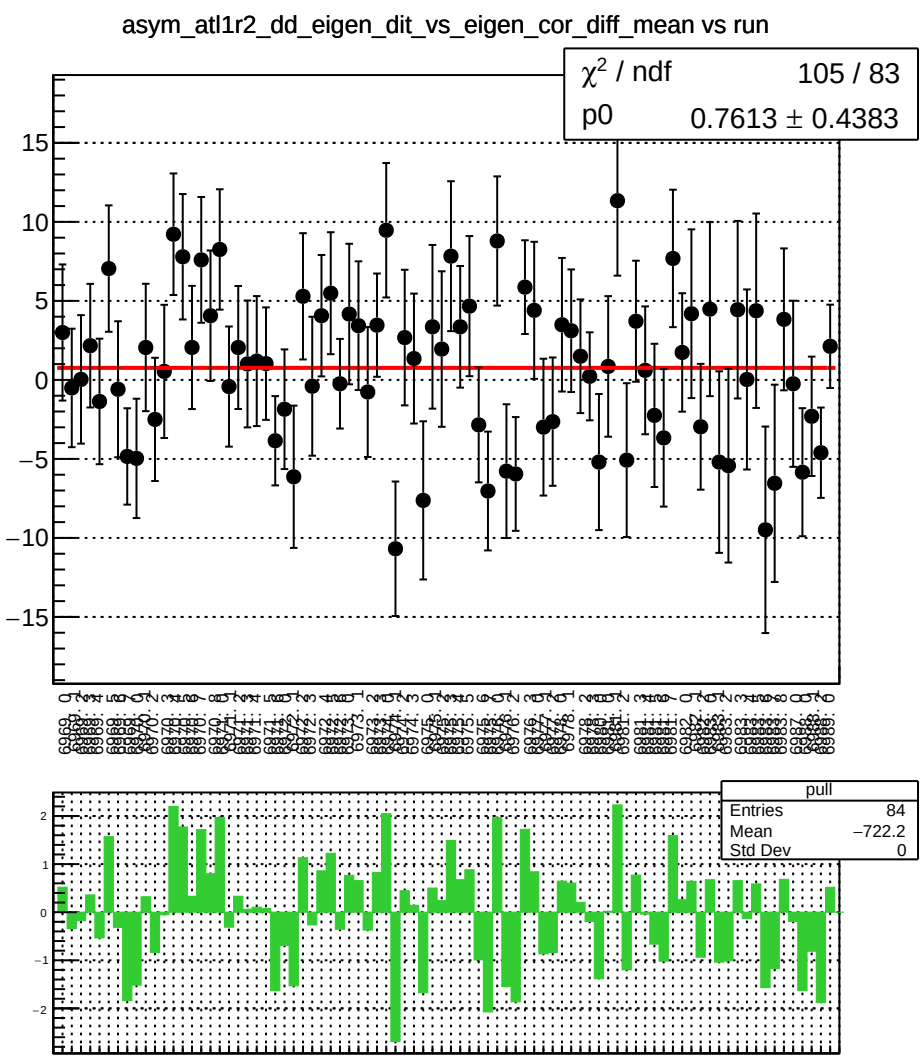

pull1D
Entries 84
Mean 0.005693
Std Dev 0.908

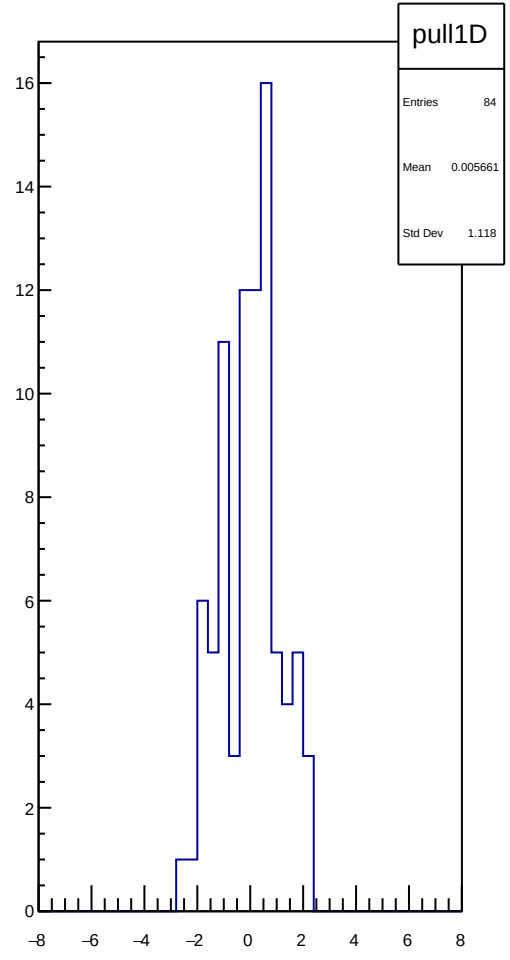

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7308 / 83
p0 0.007205 ± 5.582e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

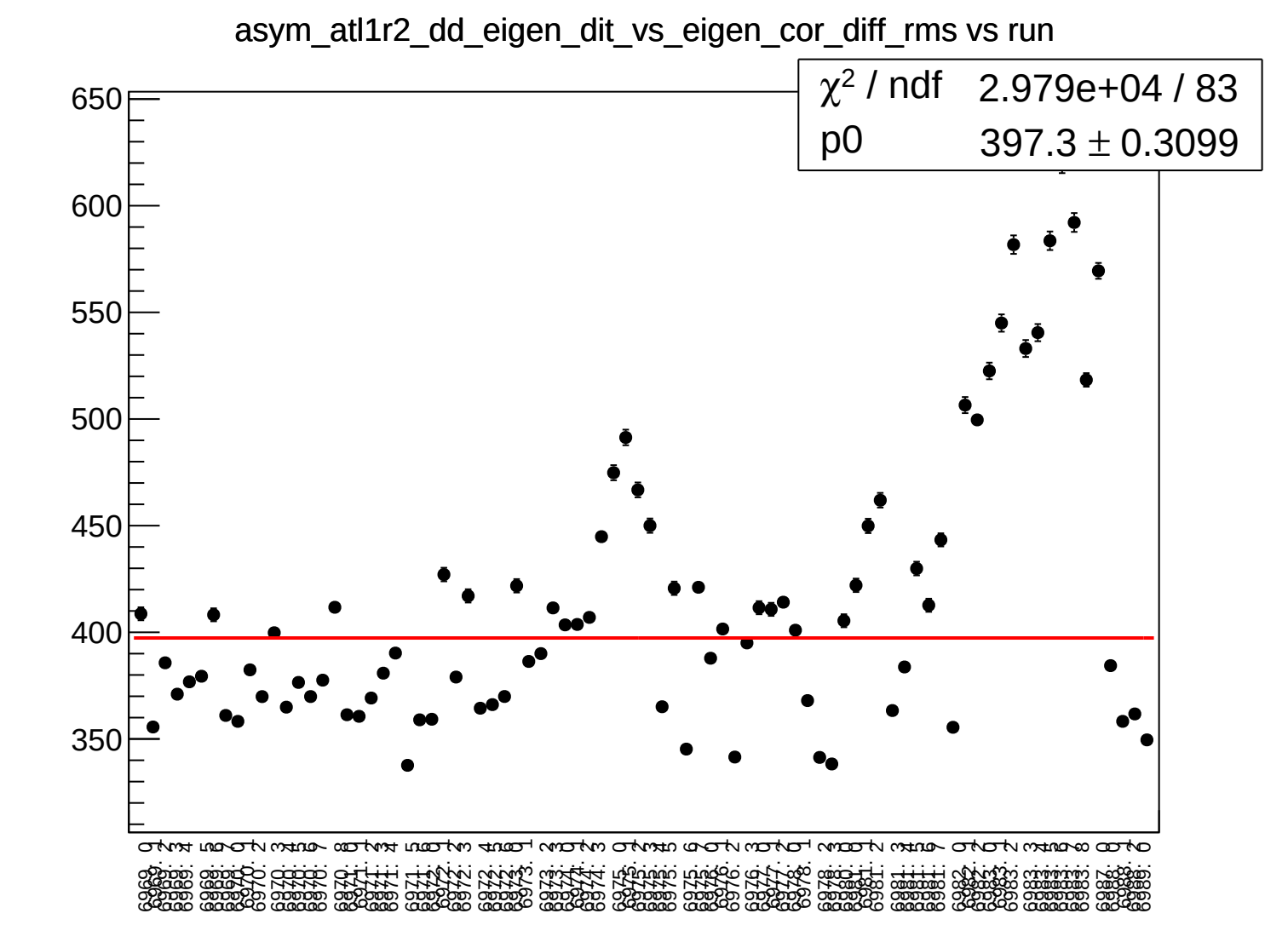

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105 / 83
p0 0.7613 ± 0.4383
pull
Entries 84
Mean −722.2
Std Dev 0

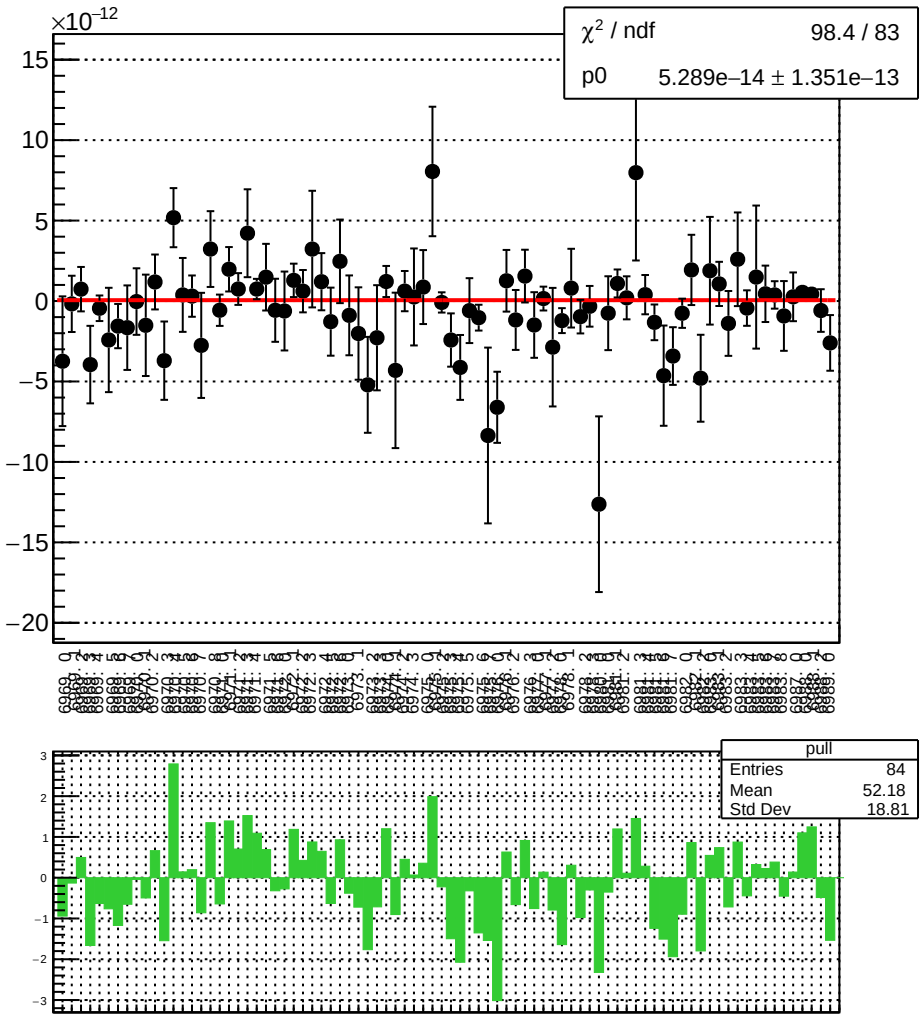

pull1D
Entries 84
Mean 0.005661
Std Dev 1.118

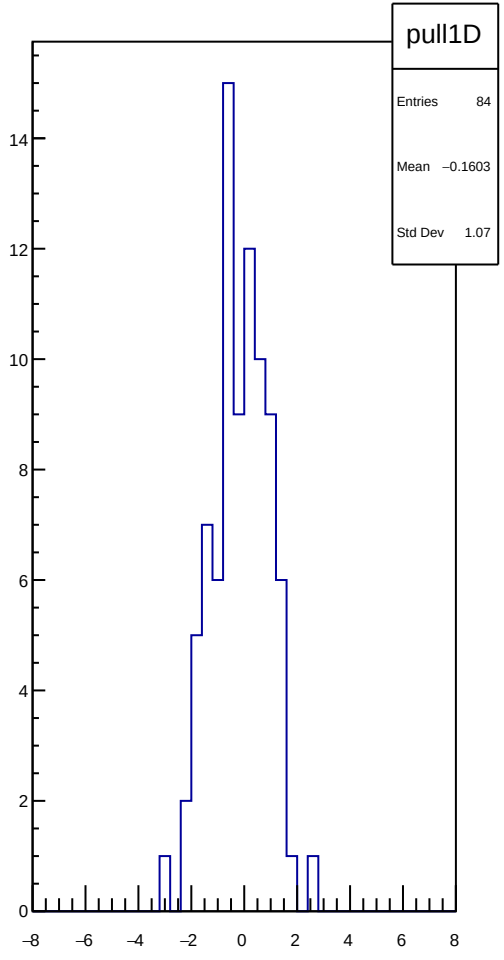

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.979e+04 / 83
p0 397.3 ± 0.3099
650
600
550
500
450
400
350

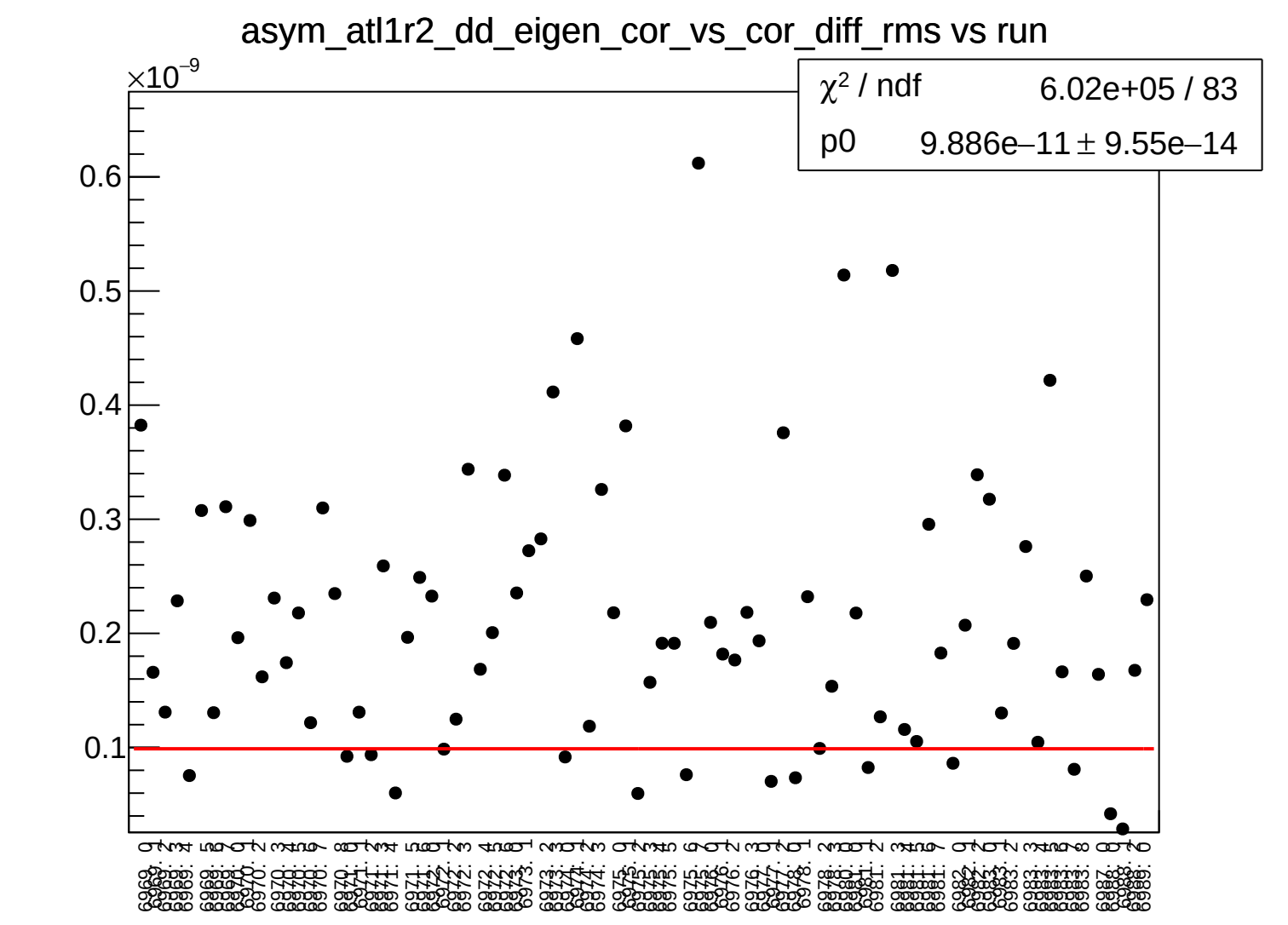

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105 / 83
p0 0.7613 ± 0.4383
pull
Entries 84
Mean −722.2
Std Dev 0

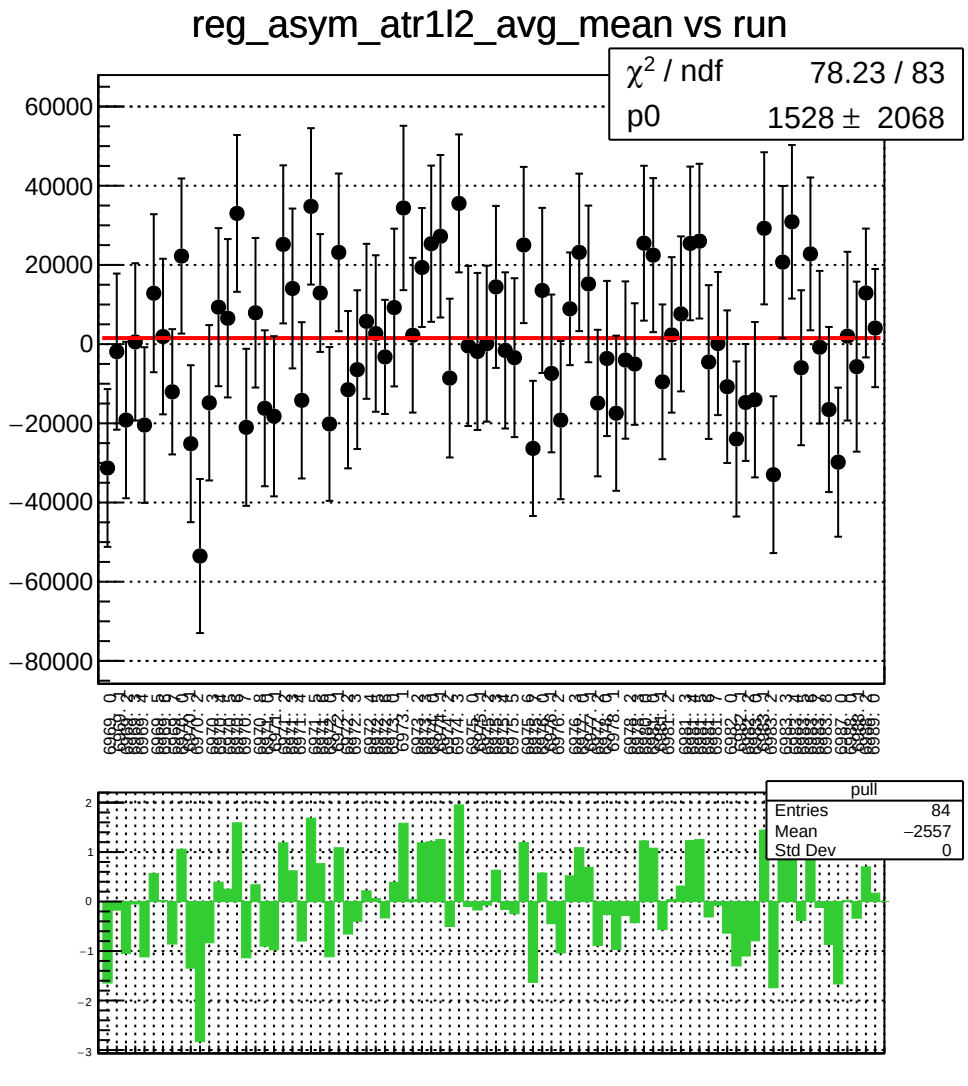

pull1D
Entries 84
Mean 0.005661
Std Dev 1.118

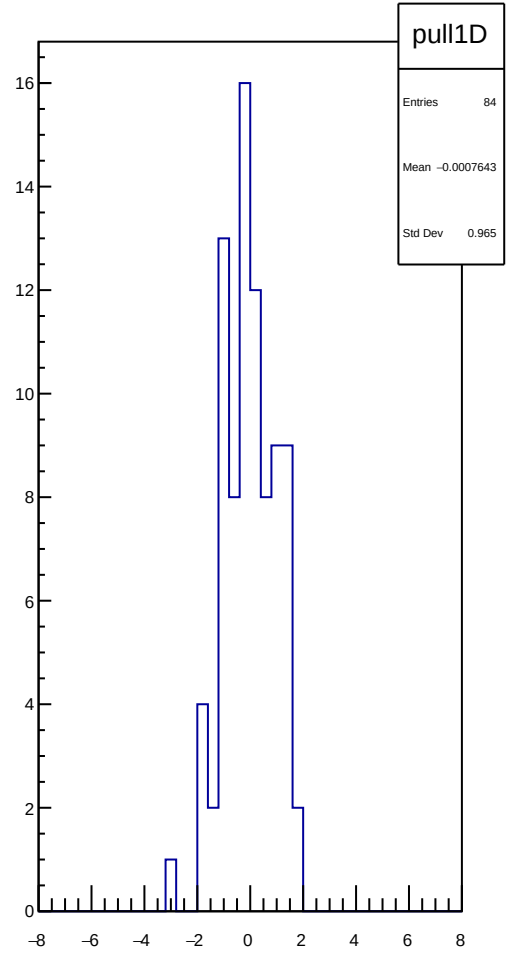

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.979e+04 / 83
p0 397.3 ± 0.3099
650
600
550
500
450
400
350

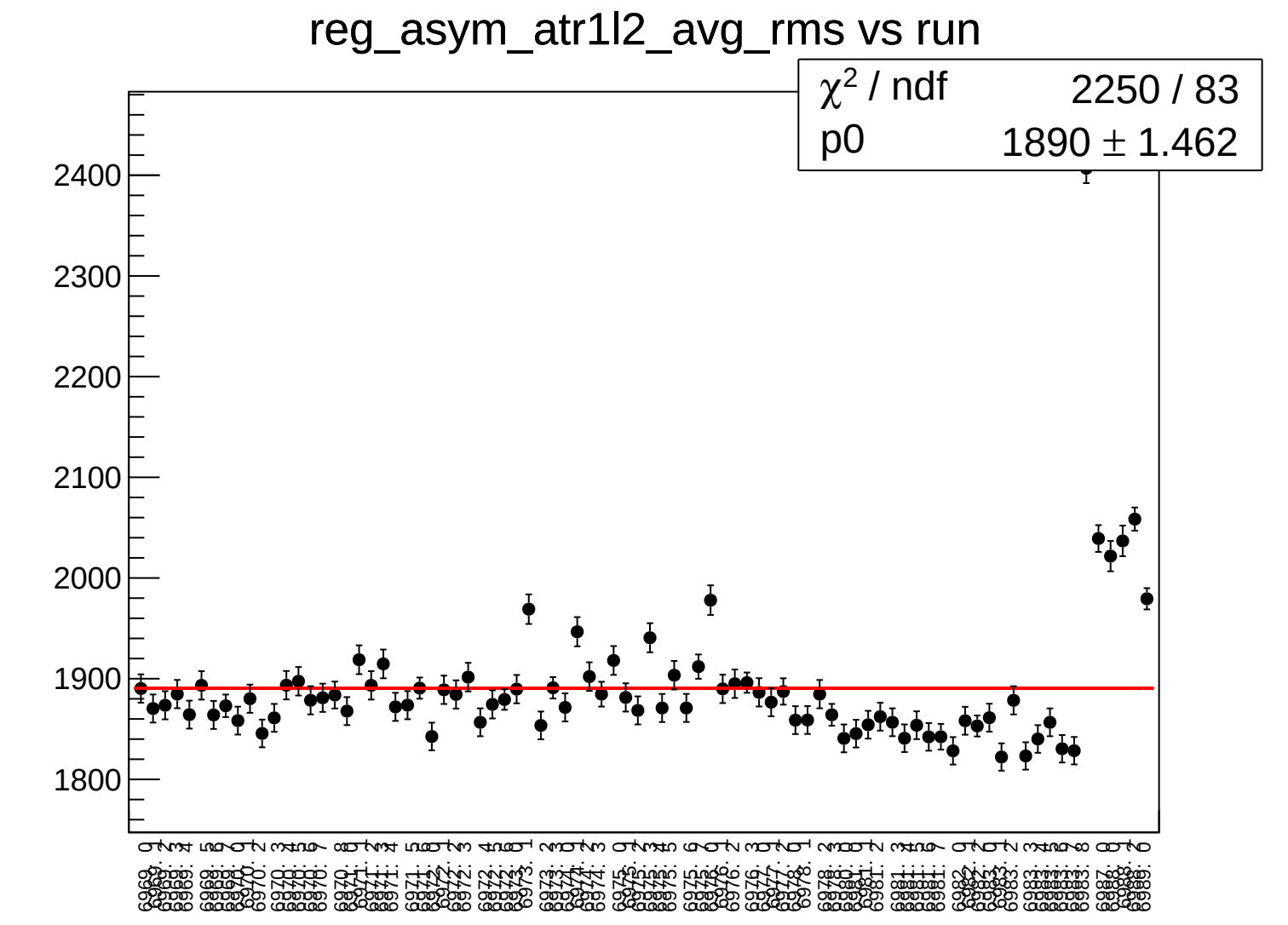

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.4 / 83
p0 5.289e−14 ± 1.351e−13
pull
Entries 84
Mean 52.18
Std Dev 18.81

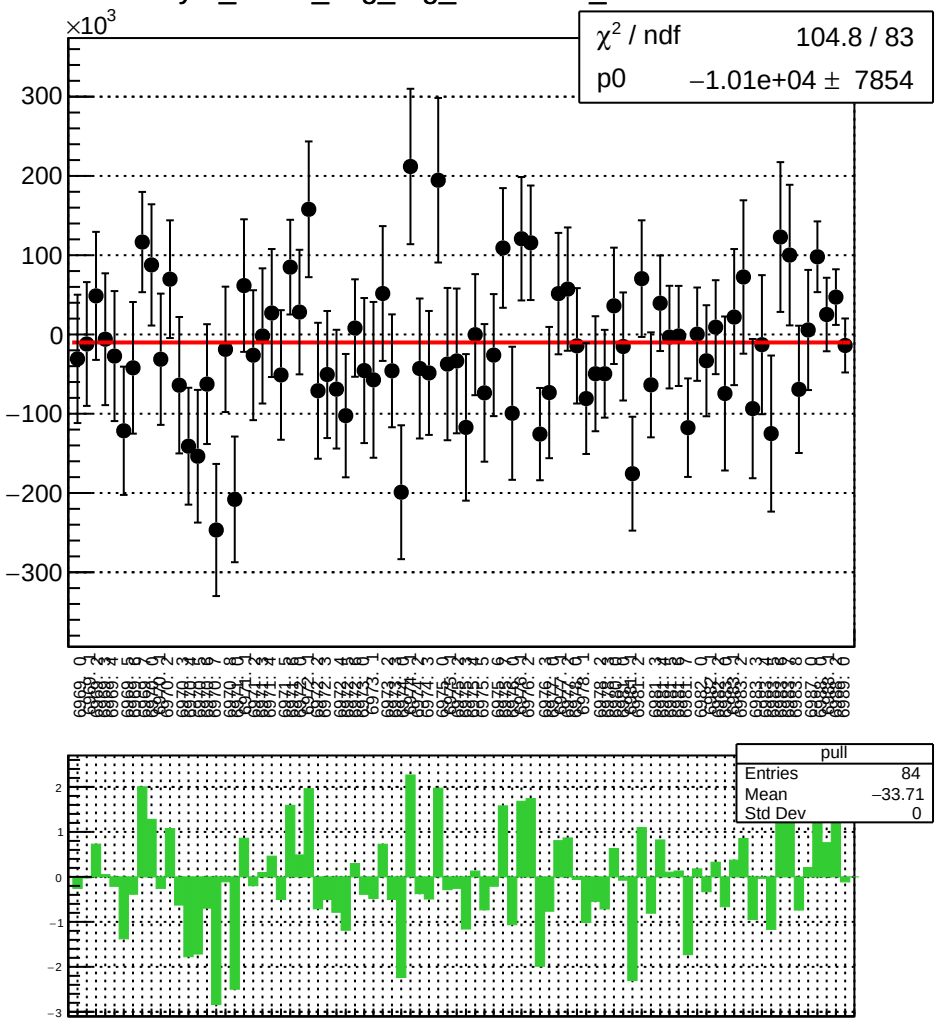

pull1D
Entries 84
Mean −0.1603
Std Dev 1.07

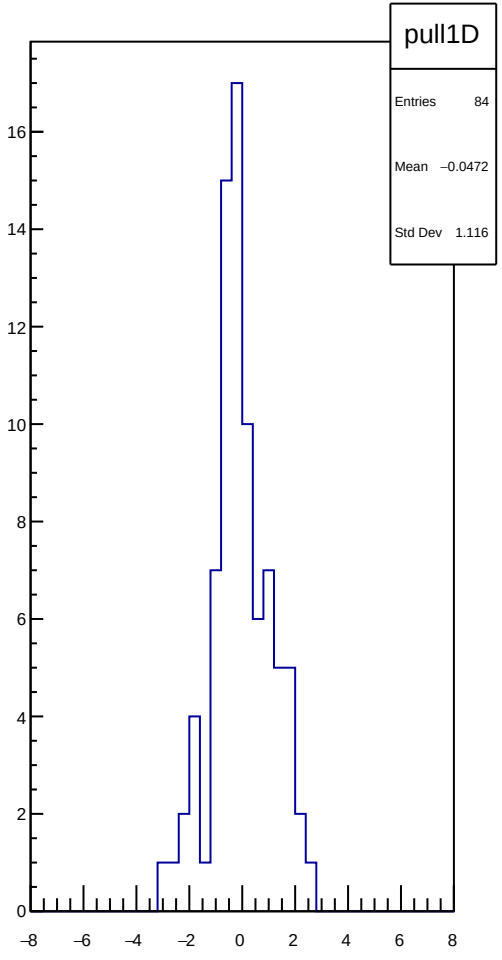

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.02e+05 / 83
p0 9.886e−11 ± 9.55e−14
0.6
0.5
0.4
0.3
0.2
0.1

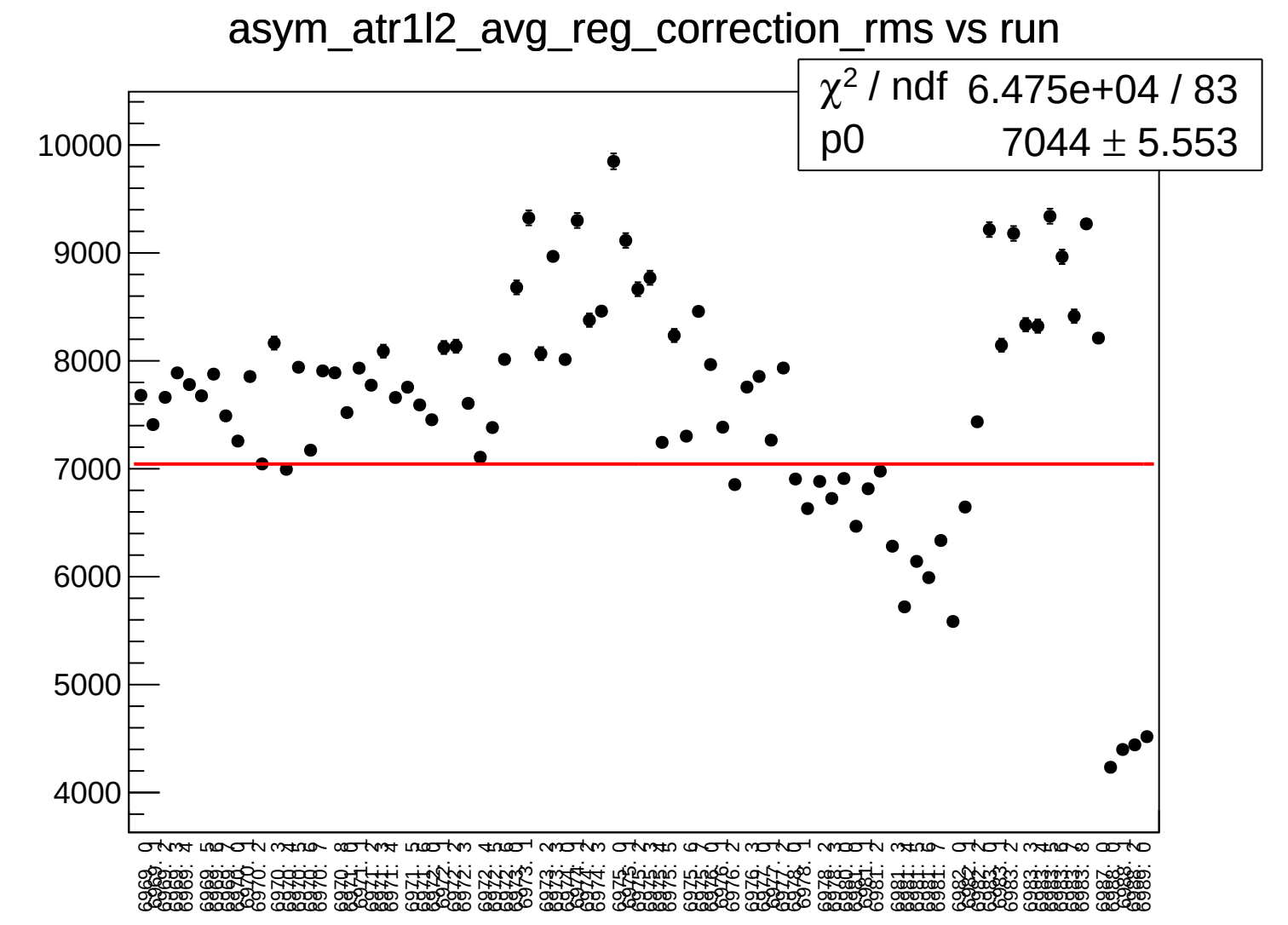

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 78.23 / 83
p0 1528 ± 2068
pull
Entries 84
Mean −2557
Std Dev 0

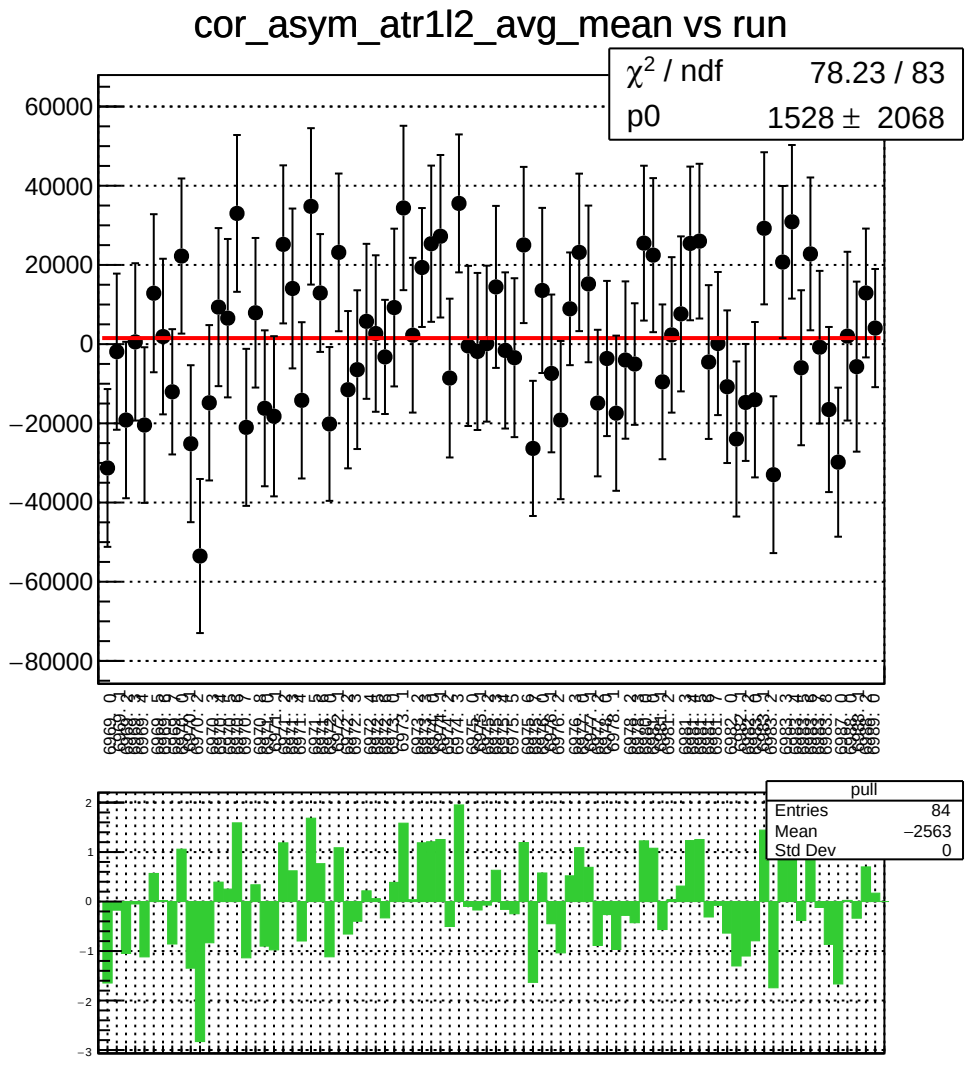

pull1D
Entries 84
Mean −0.0007643
Std Dev 0.965

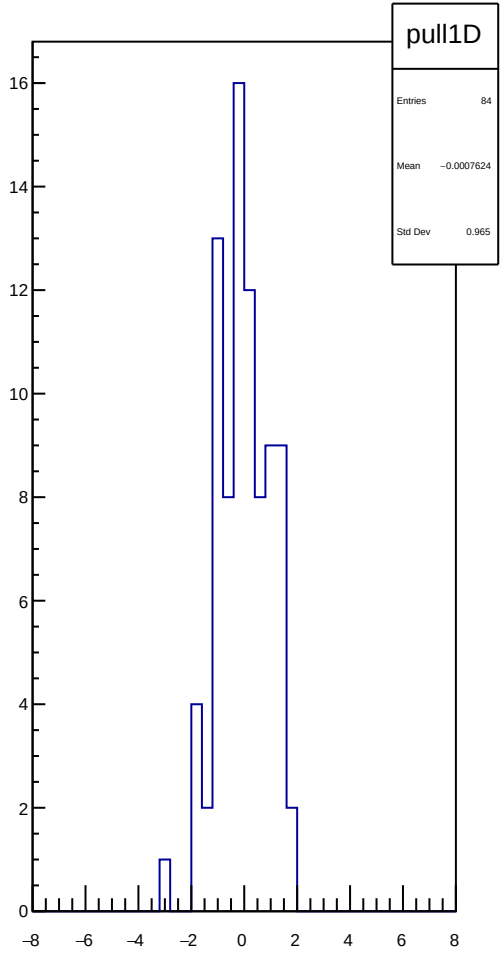

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 2250 / 83
p0 1890 ± 1.462
2400
2300
2200
2100
2000
1900
1800

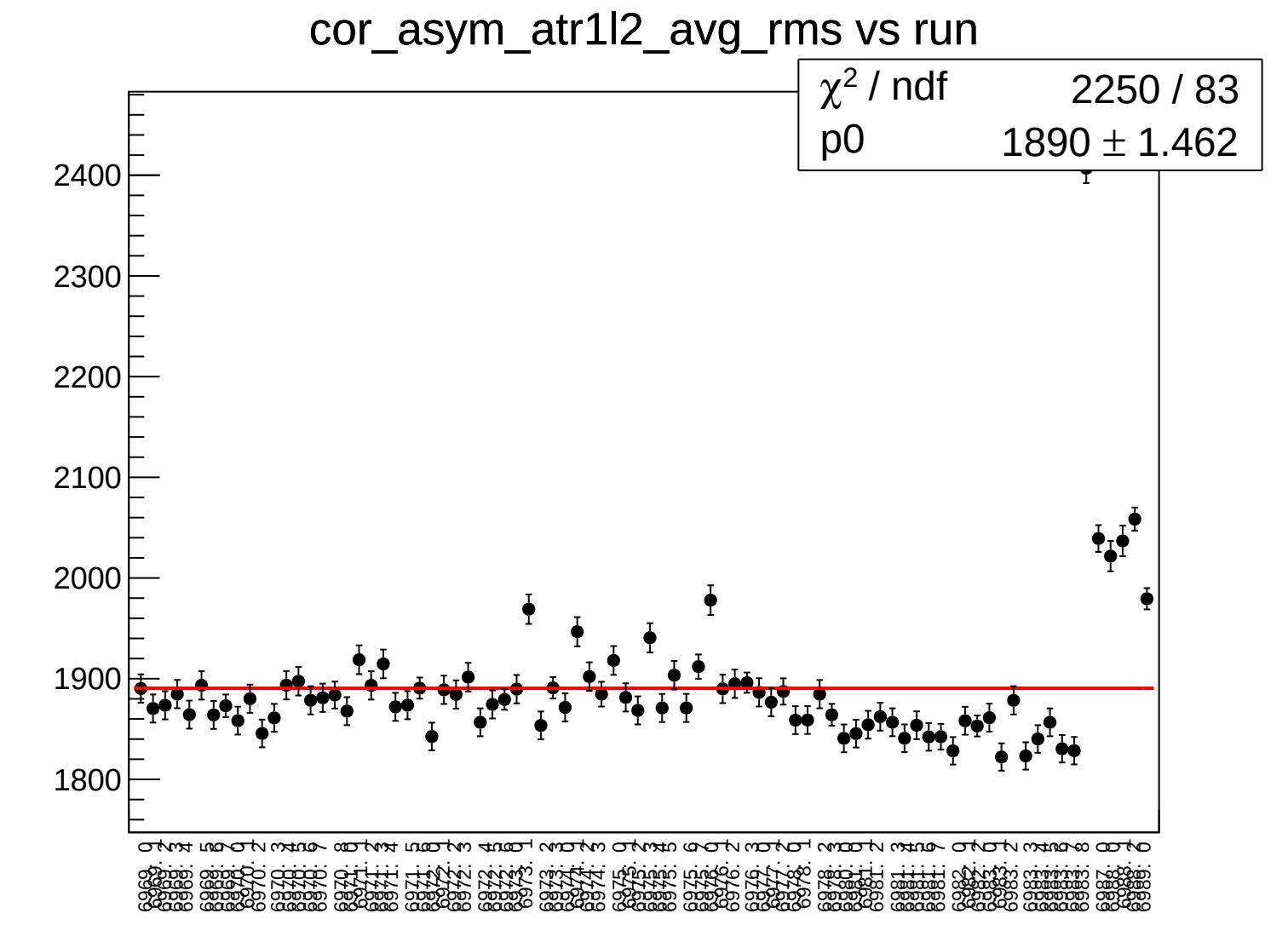

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 104.8 / 83
p0 −1.01e+04 ± 7854
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −33.71
Std Dev 0
2
1
0
−1
−2
−3

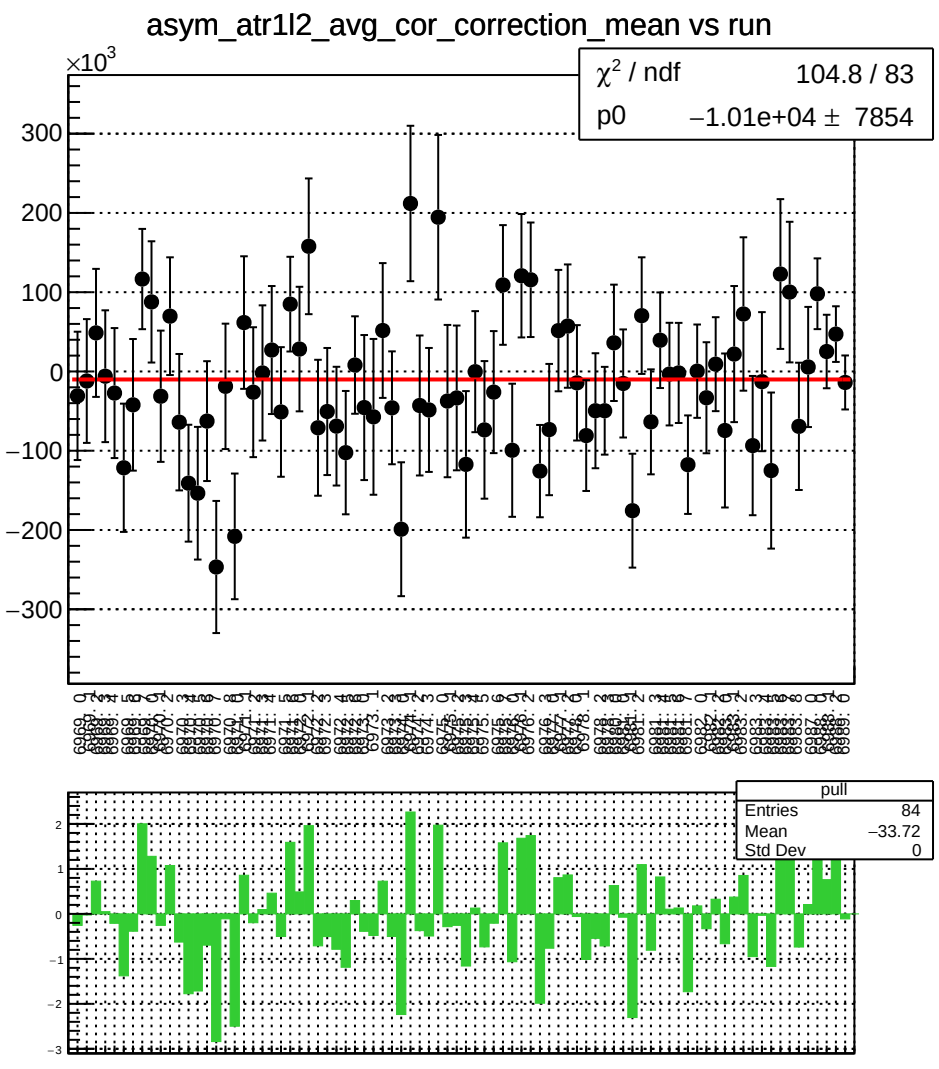

pull1D
Entries 84
Mean −0.0472
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

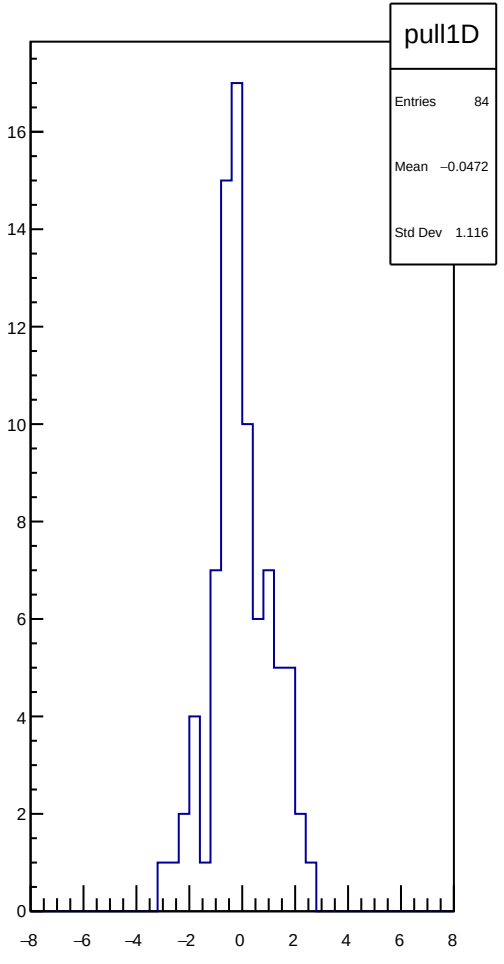

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 6.475e+04 / 83
p0 7044 ± 5.553
10000
9000
8000
7000
6000
5000
4000

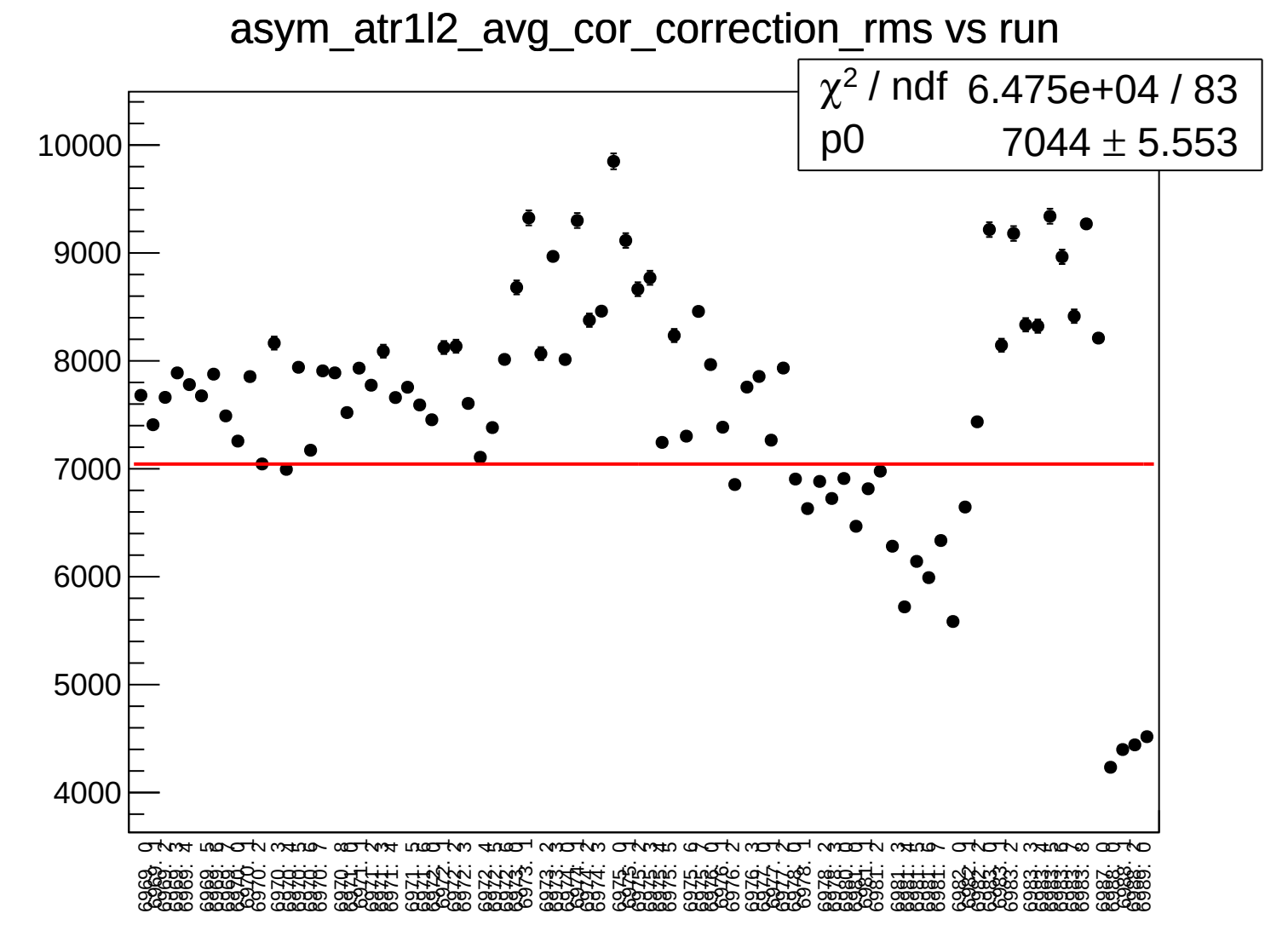

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 78.23 / 83
p0 1528 ± 2068
pull
Entries 84
Mean −2563
Std Dev 0

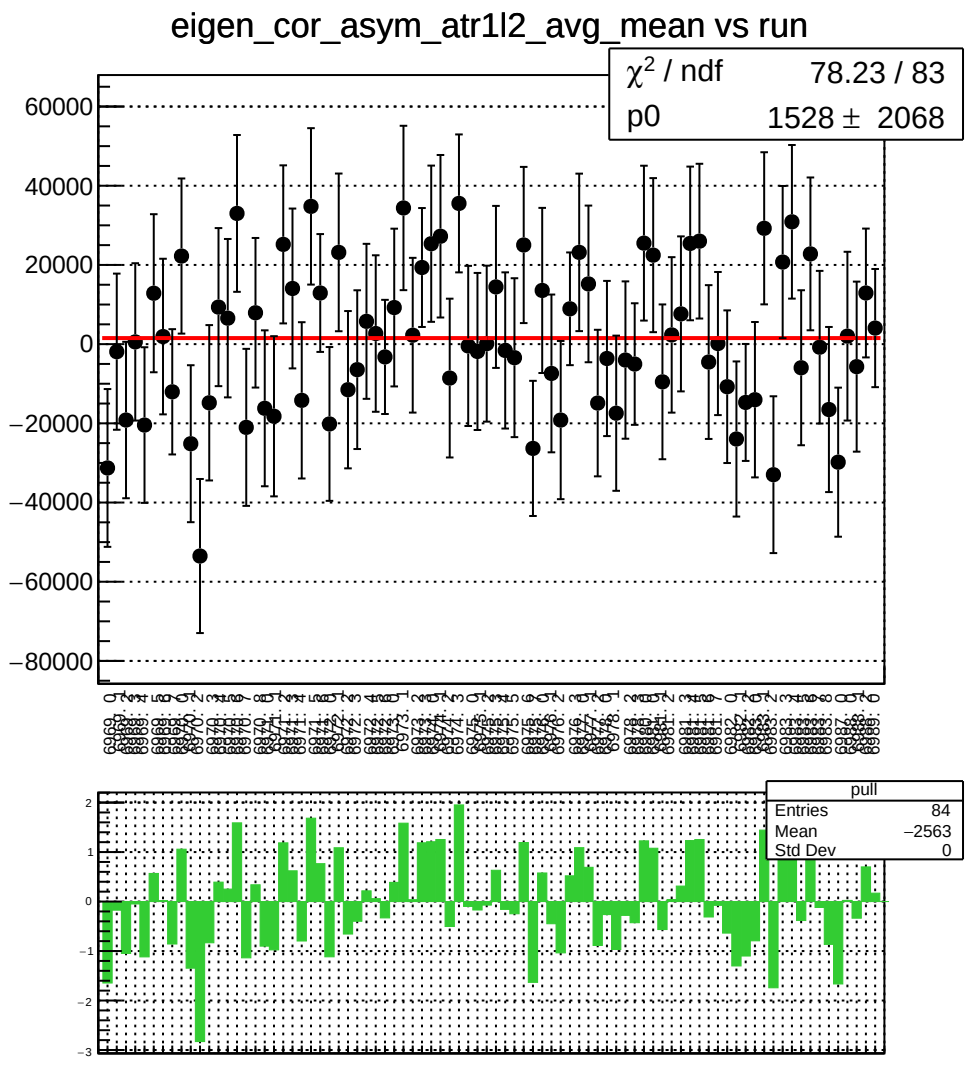

pull1D
Entries 84
Mean −0.0007624
Std Dev 0.965

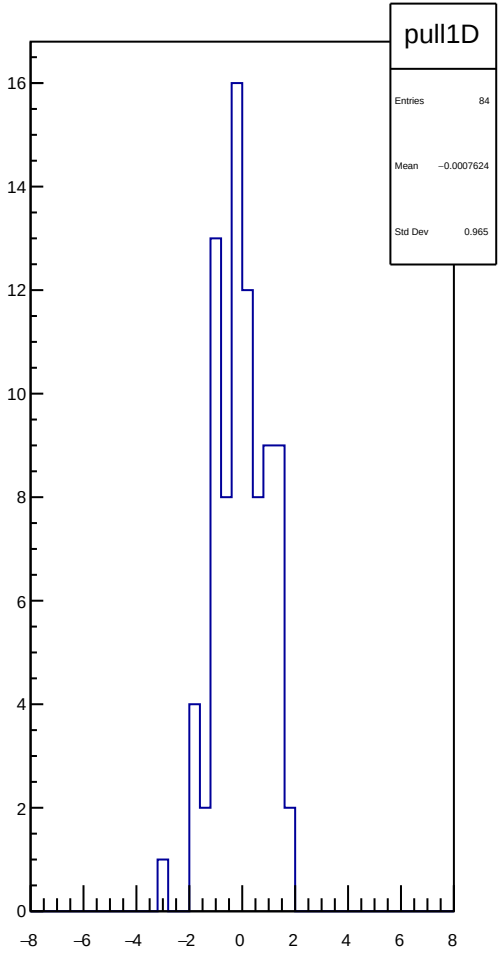

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 2250 / 83
p0 1890 ± 1.462
2400
2300
2200
2100
2000
1900
1800

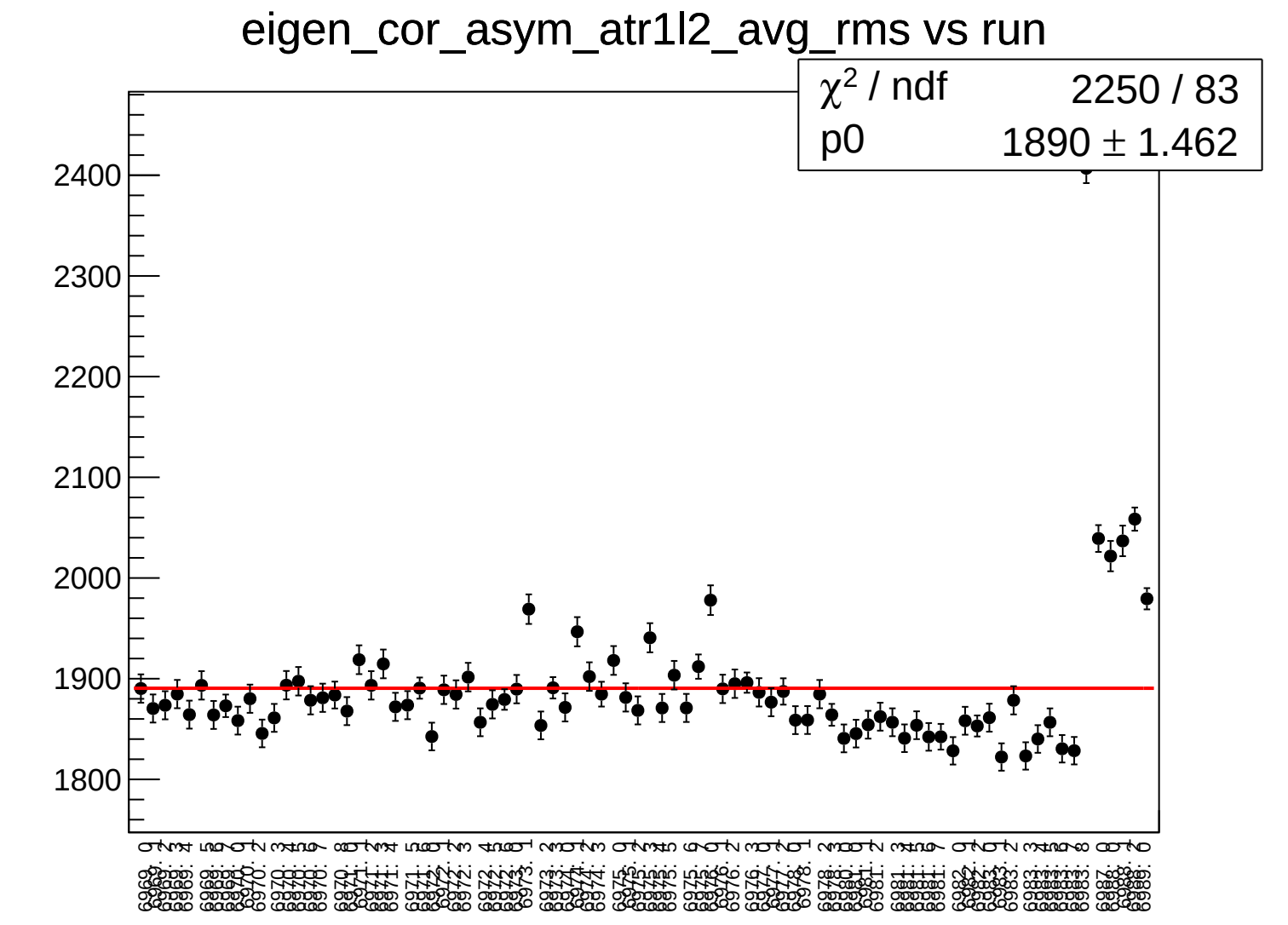

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 104.8 / 83
p0 −1.01e+04 ± 7854
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −33.72
Std Dev 0
2
1
0
−1
−2
−3

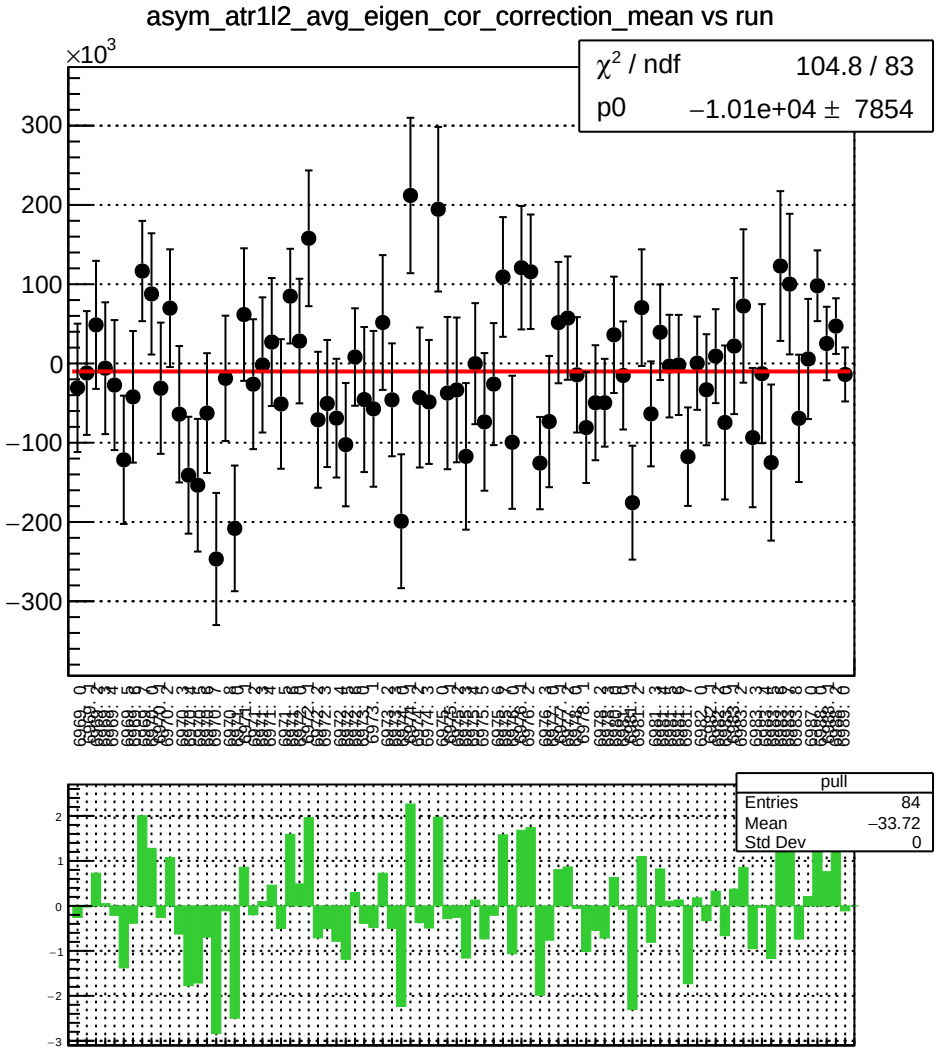

pull1D
Entries 84
Mean −0.0472
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

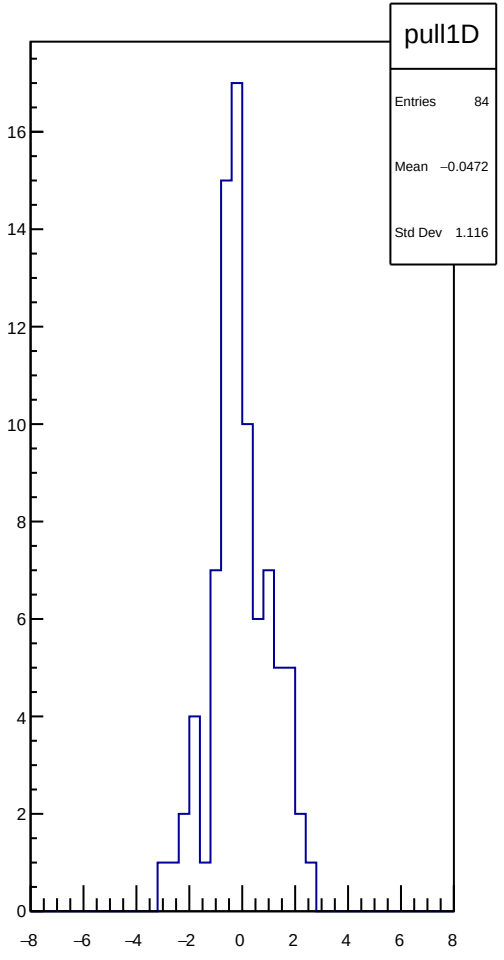

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 6.475e+04 / 83
p0 7044 ± 5.553
10000
9000
8000
7000
6000
5000
4000

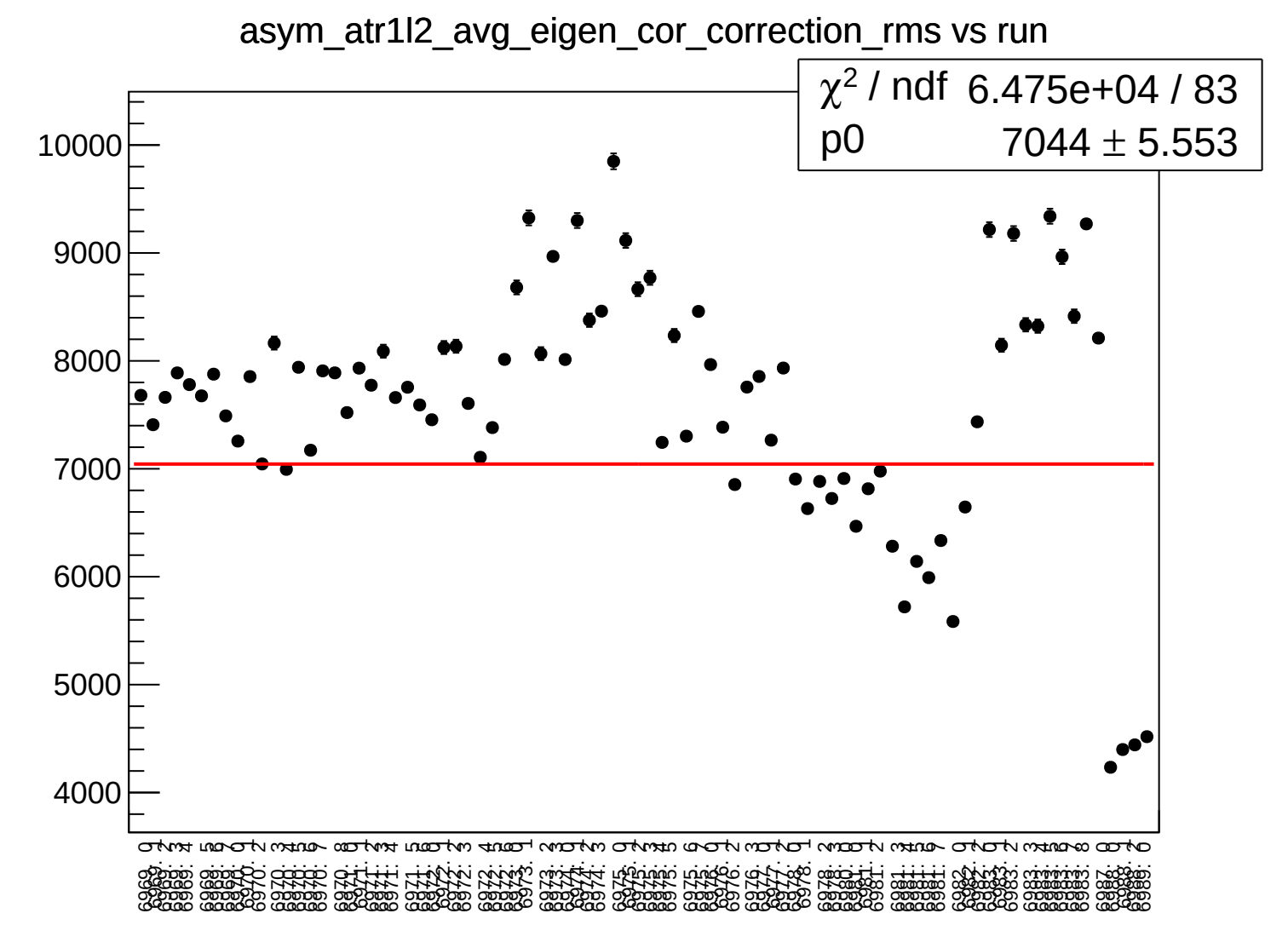

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 78.23 / 83
p0 1528 ± 2068
pull
Entries 84
Mean −2563
Std Dev 0

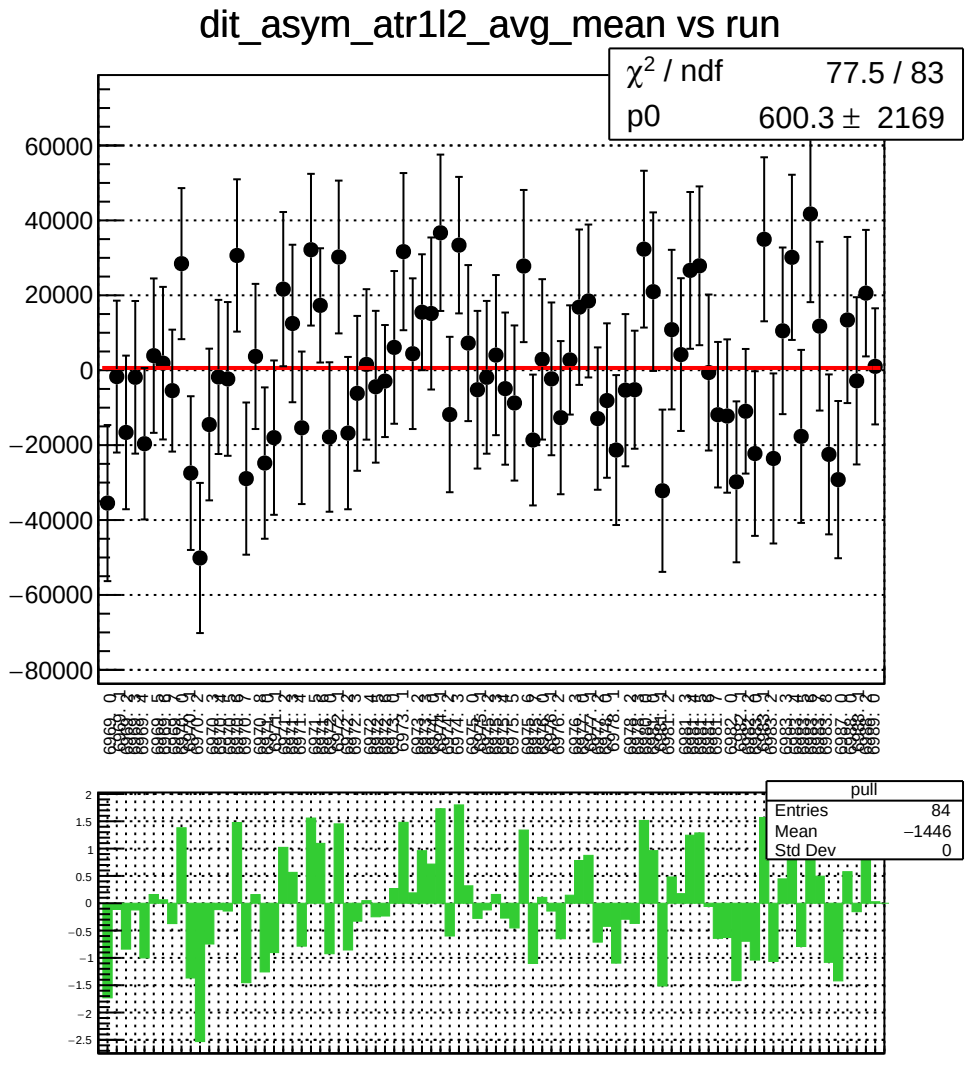

pull1D
Entries 84
Mean −0.0007624
Std Dev 0.965

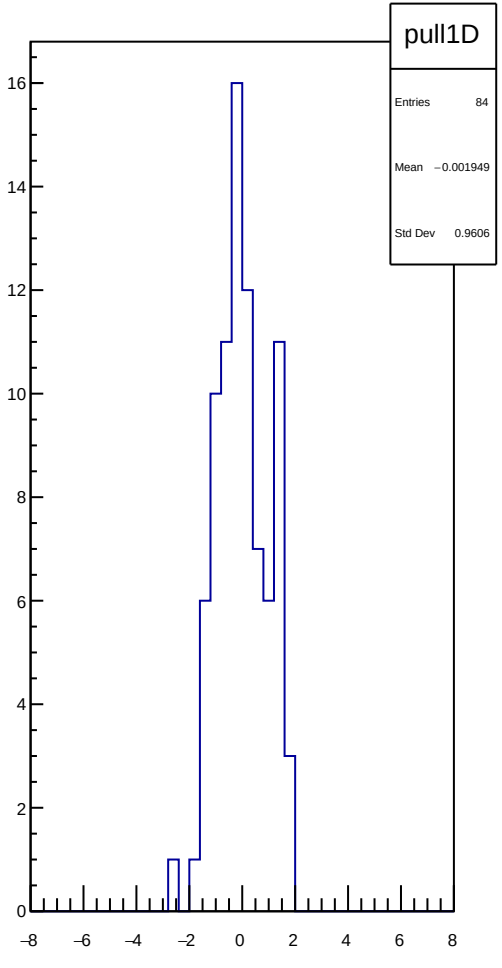

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 2250 / 83
p0 1890 ± 1.462
2400
2300
2200
2100
2000
1900
1800

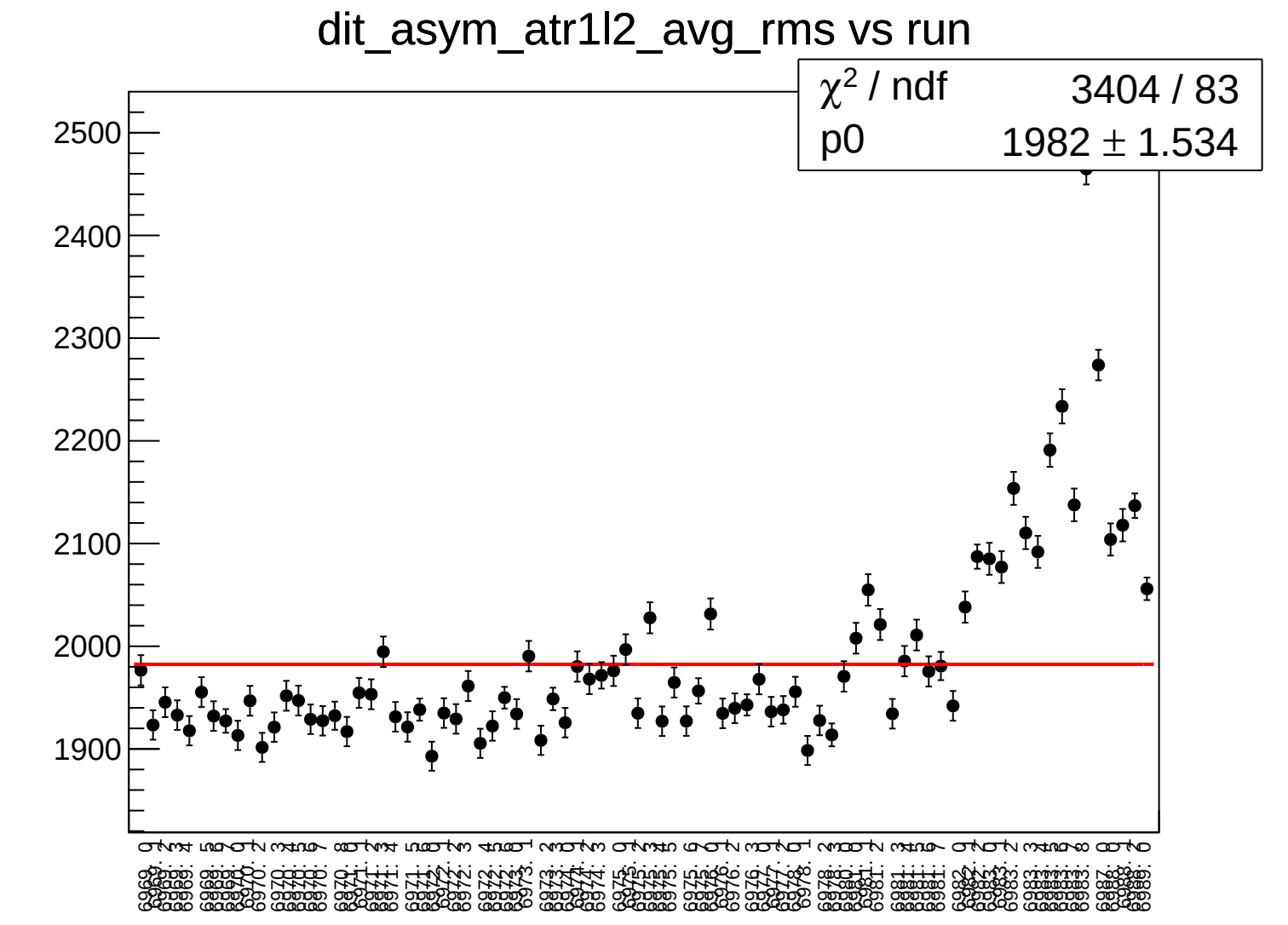

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 104.8 / 83
p0 −1.01e+04 ± 7854
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −33.72
Std Dev 0
2
1
0
−1
−2
−3

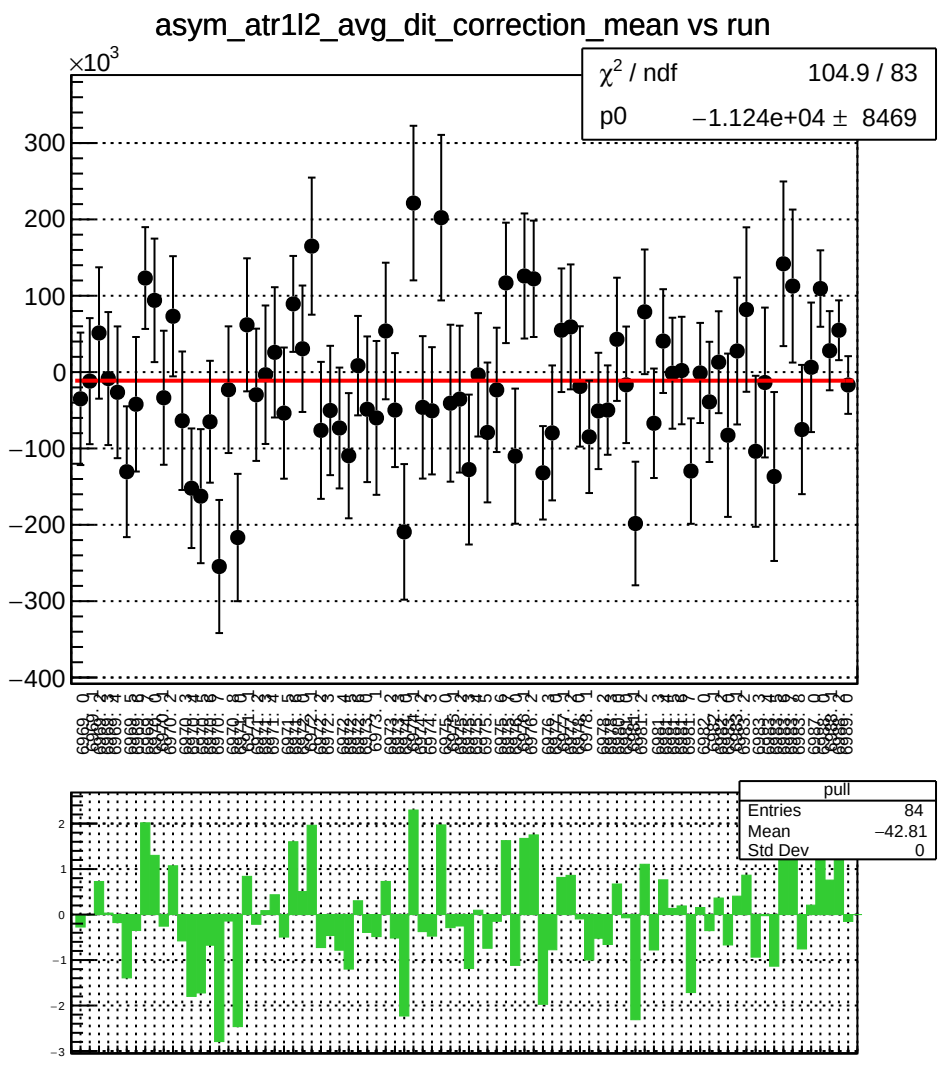

pull1D
Entries 84
Mean −0.0472
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

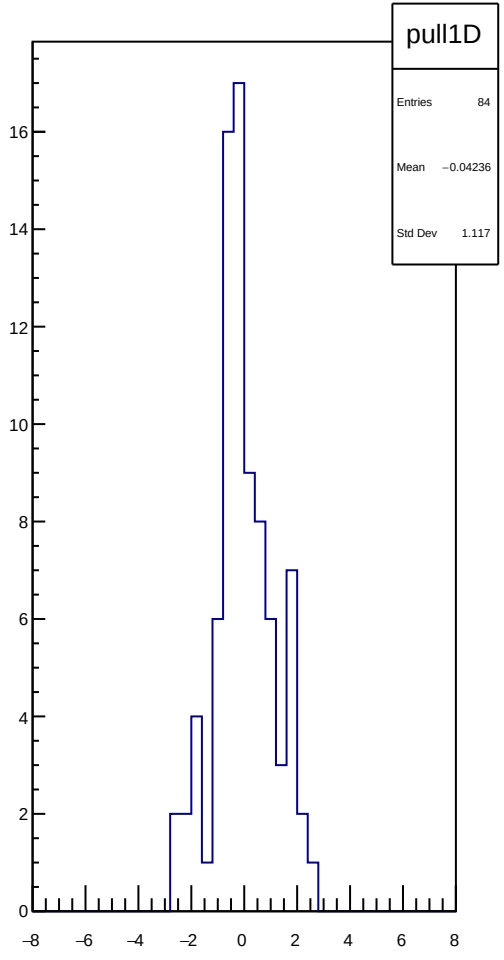

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 6.475e+04 / 83
p0 7044 ± 5.553
10000
9000
8000
7000
6000
5000
4000

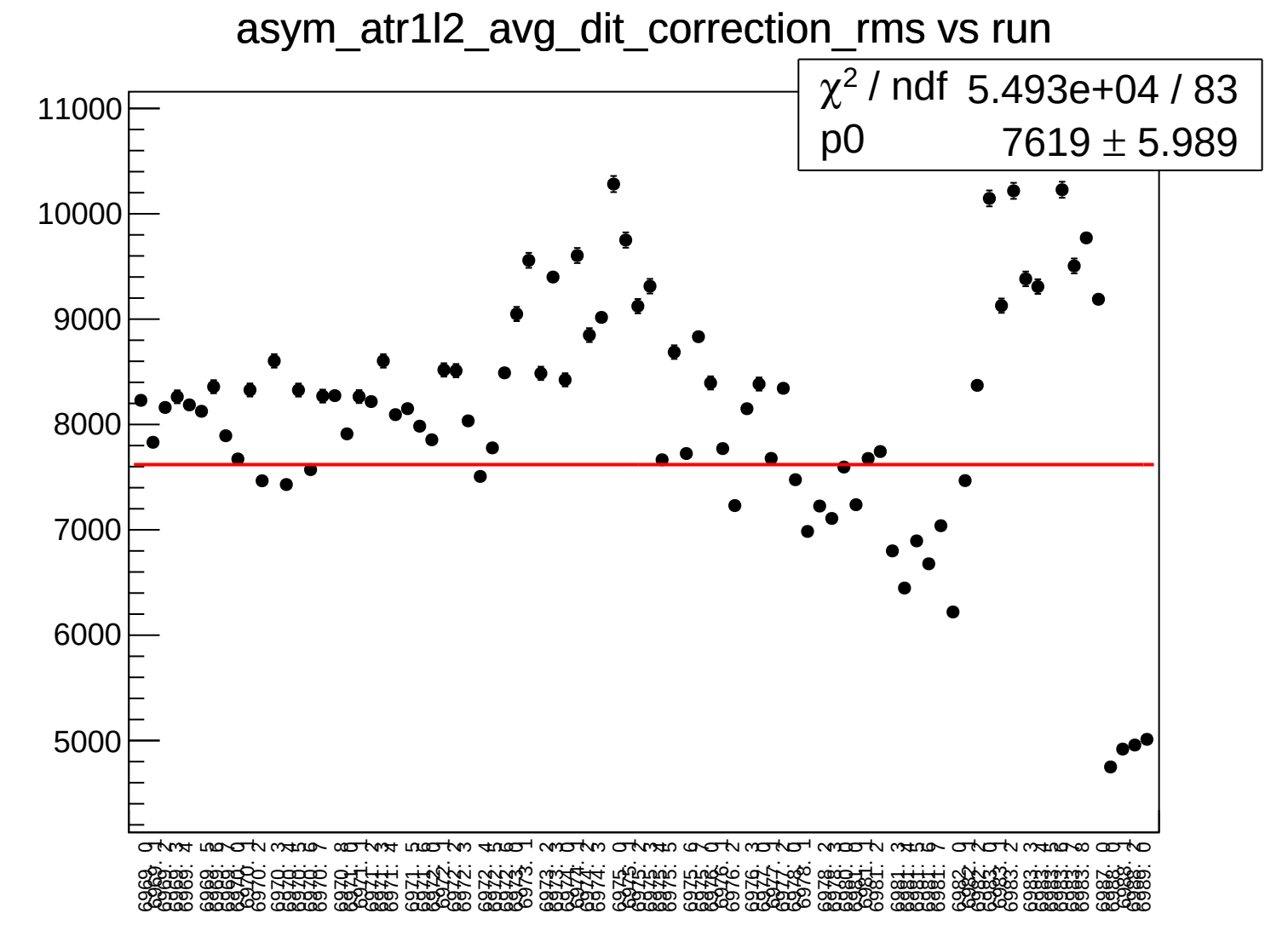

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 77.5 / 83
p0 600.3 ± 2169
pull
Entries 84
Mean −1446
Std Dev 0

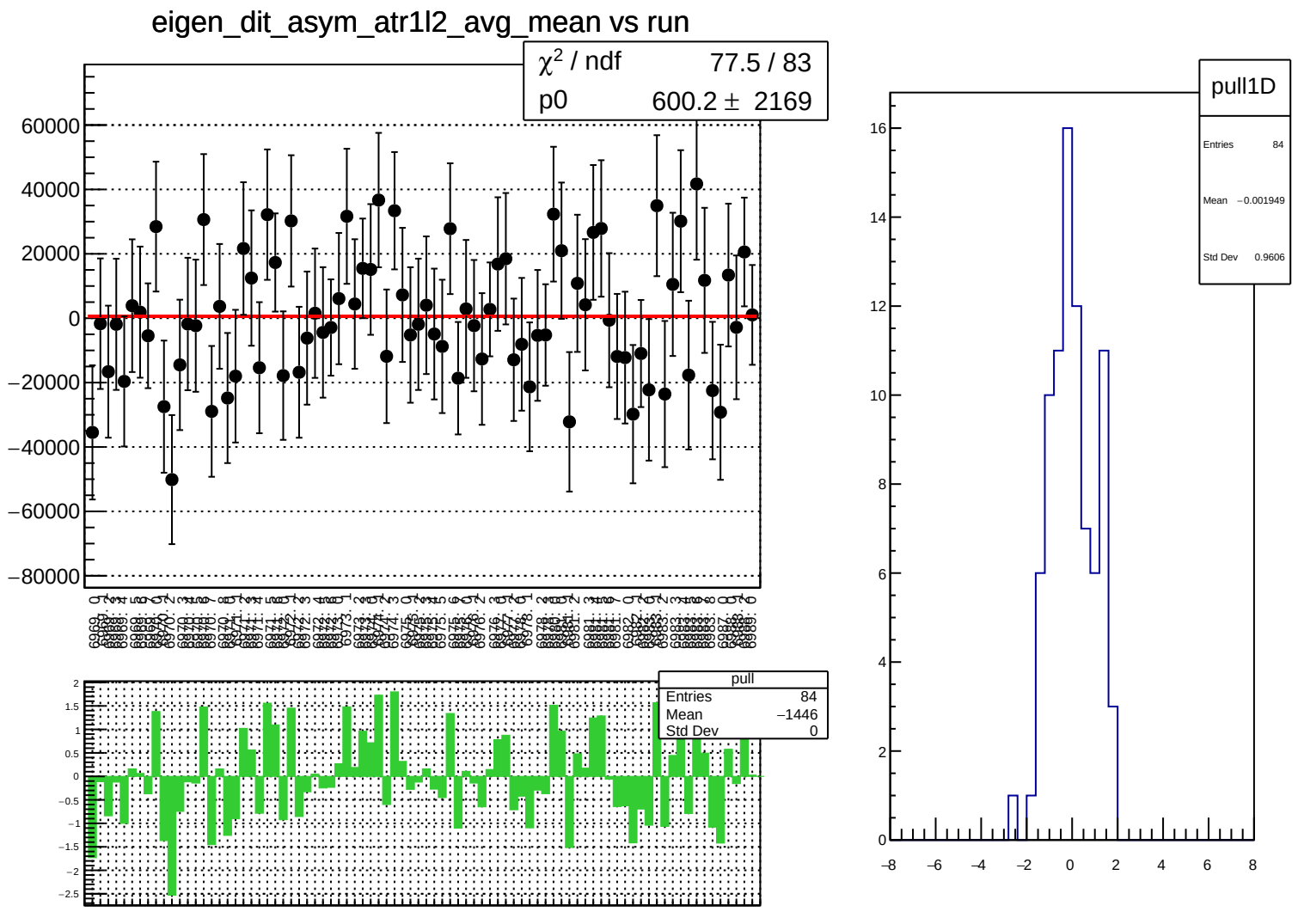

pull1D
Entries 84
Mean −0.001949
Std Dev 0.9606

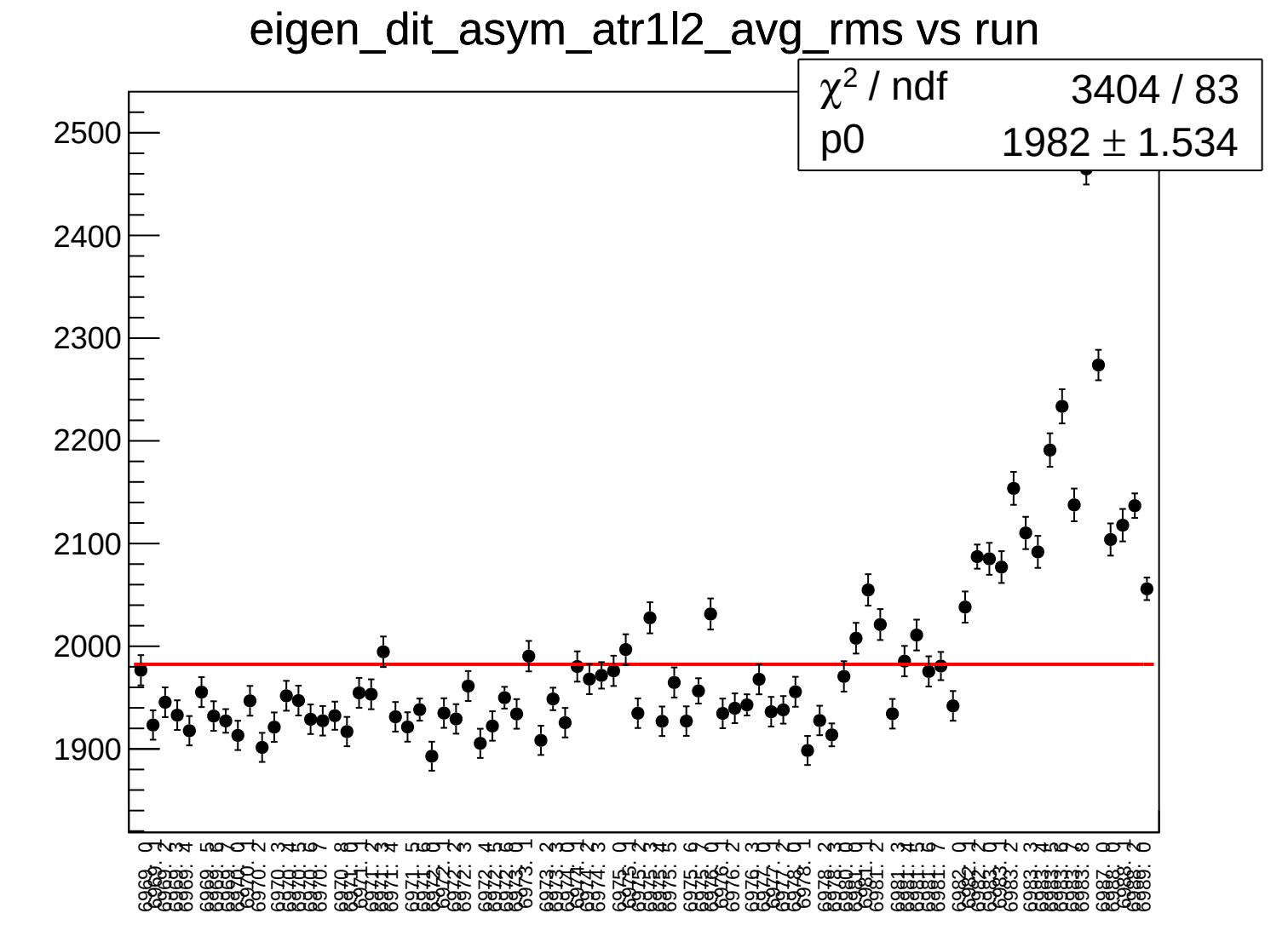

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 3404 / 83
p0 1982 ± 1.534
2500
2400
2300
2200
2100
2000
1900

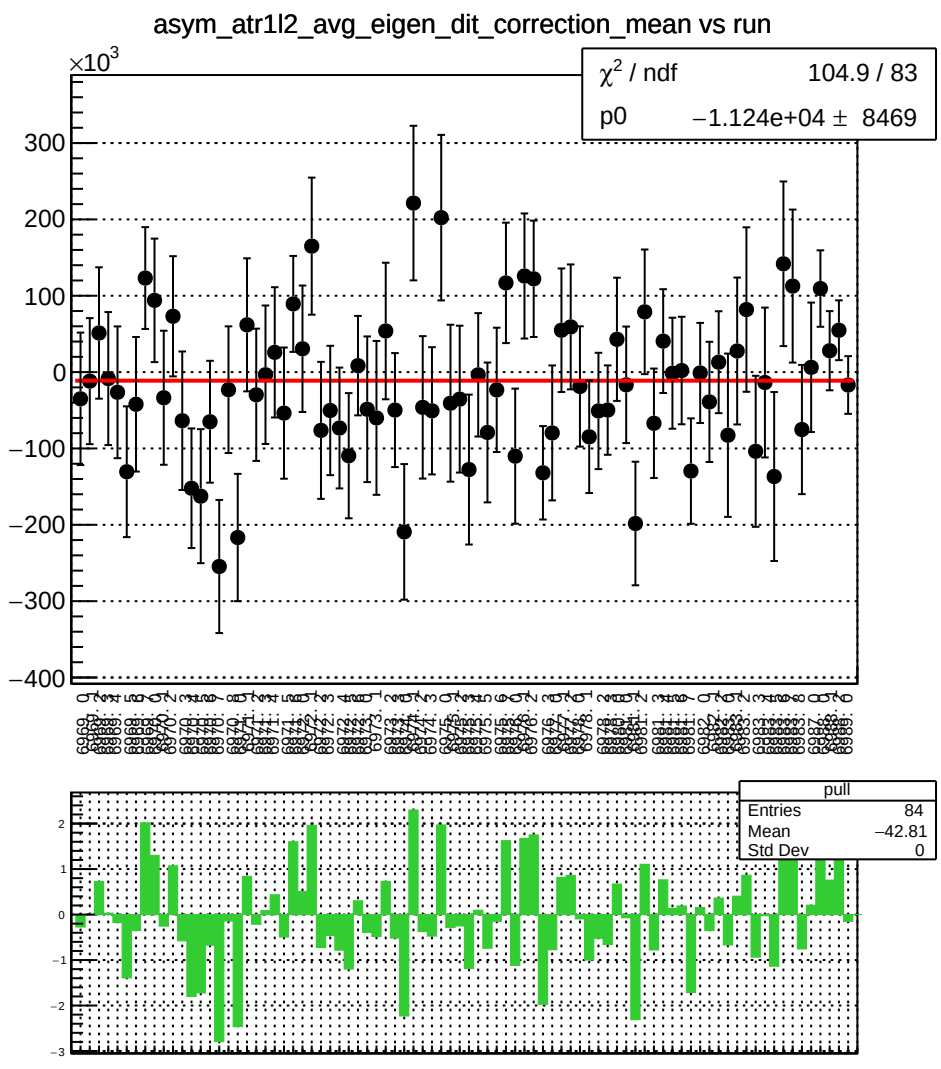

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 104.9 / 83
p0 −1.124e+04 ± 8469
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean −42.81
Std Dev 0
2
1
0
−1
−2
−3

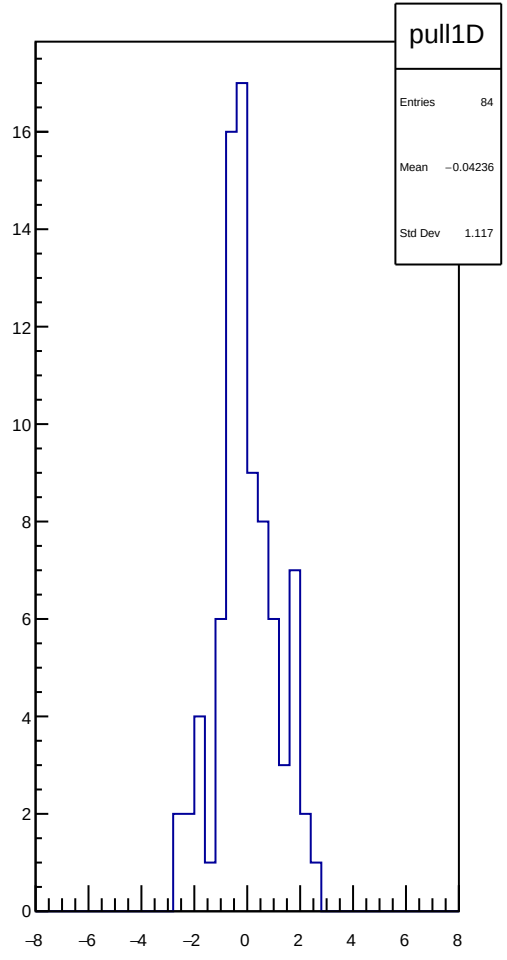

pull1D
Entries 84
Mean −0.04236
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

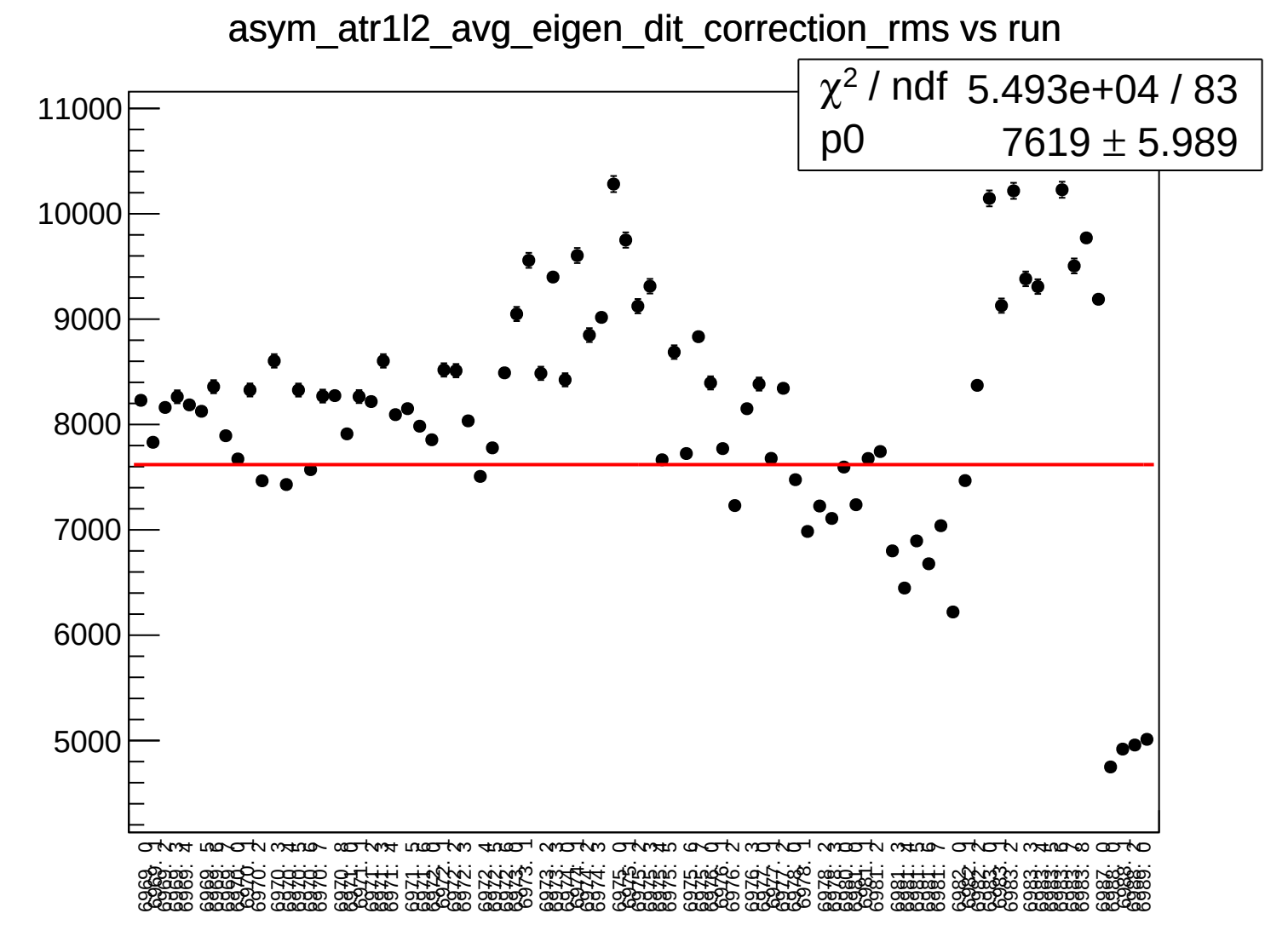

asym_atr1l2_avg_dit_correction_rms vs run
χ^2 / ndf 5.493e+04 / 83
p0 7619 ± 5.989
11000
10000
9000
8000
7000
6000
5000

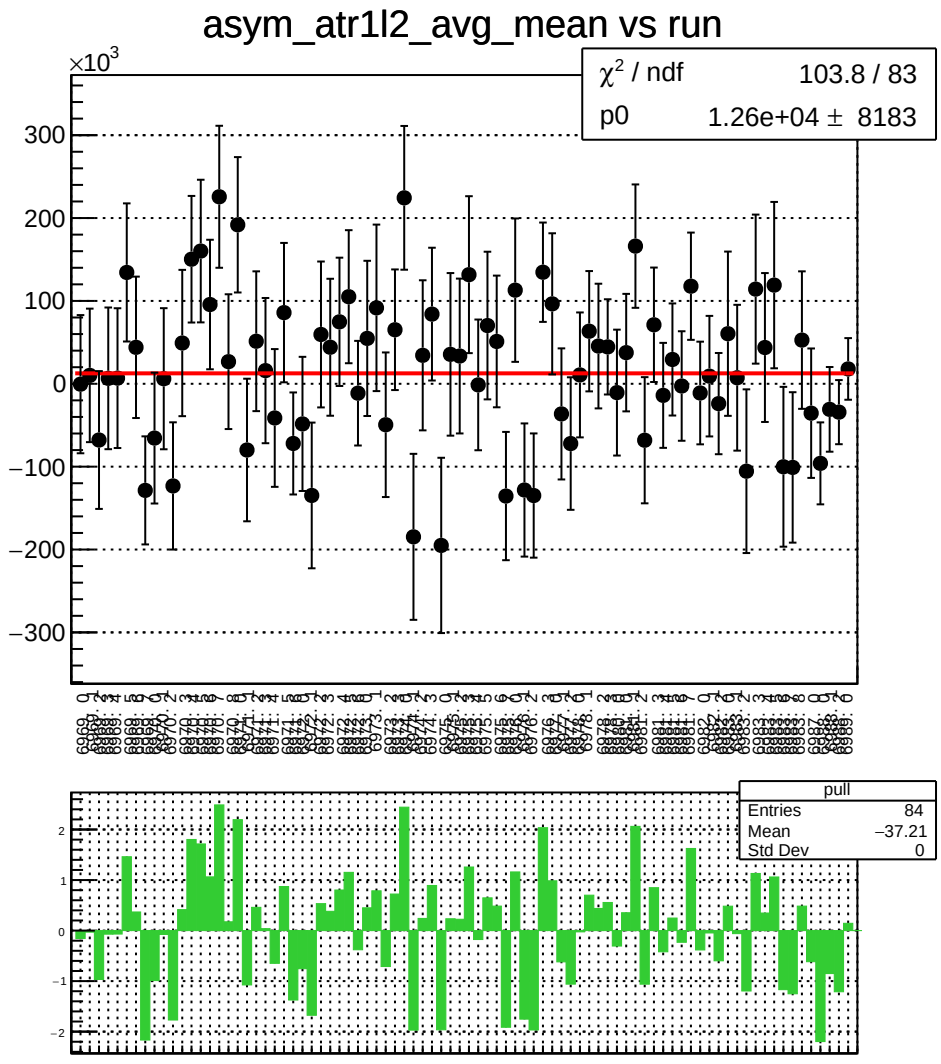

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 77.5 / 83
p0 600.2 ± 2169
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −1446
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean −0.001949
Std Dev 0.9606
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

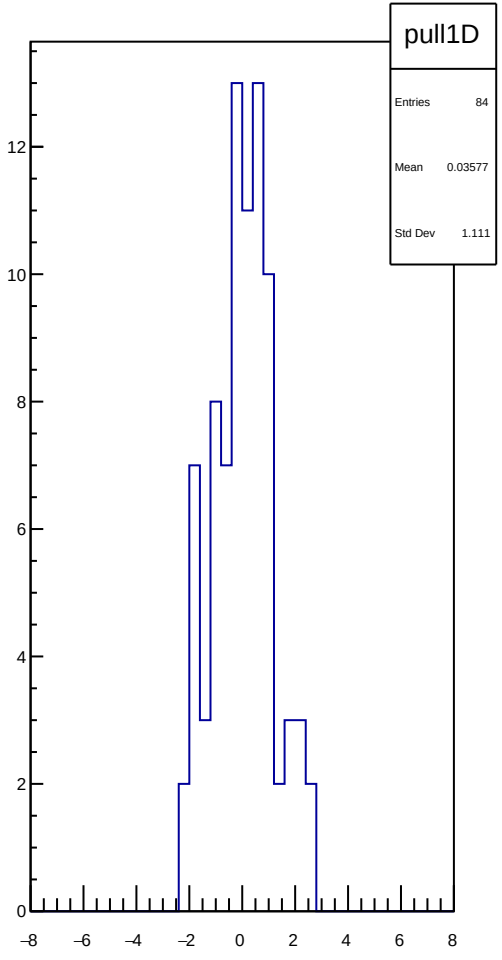

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 3404 / 83
p0 1982 ± 1.534
2500
2400
2300
2200
2100
2000
1900

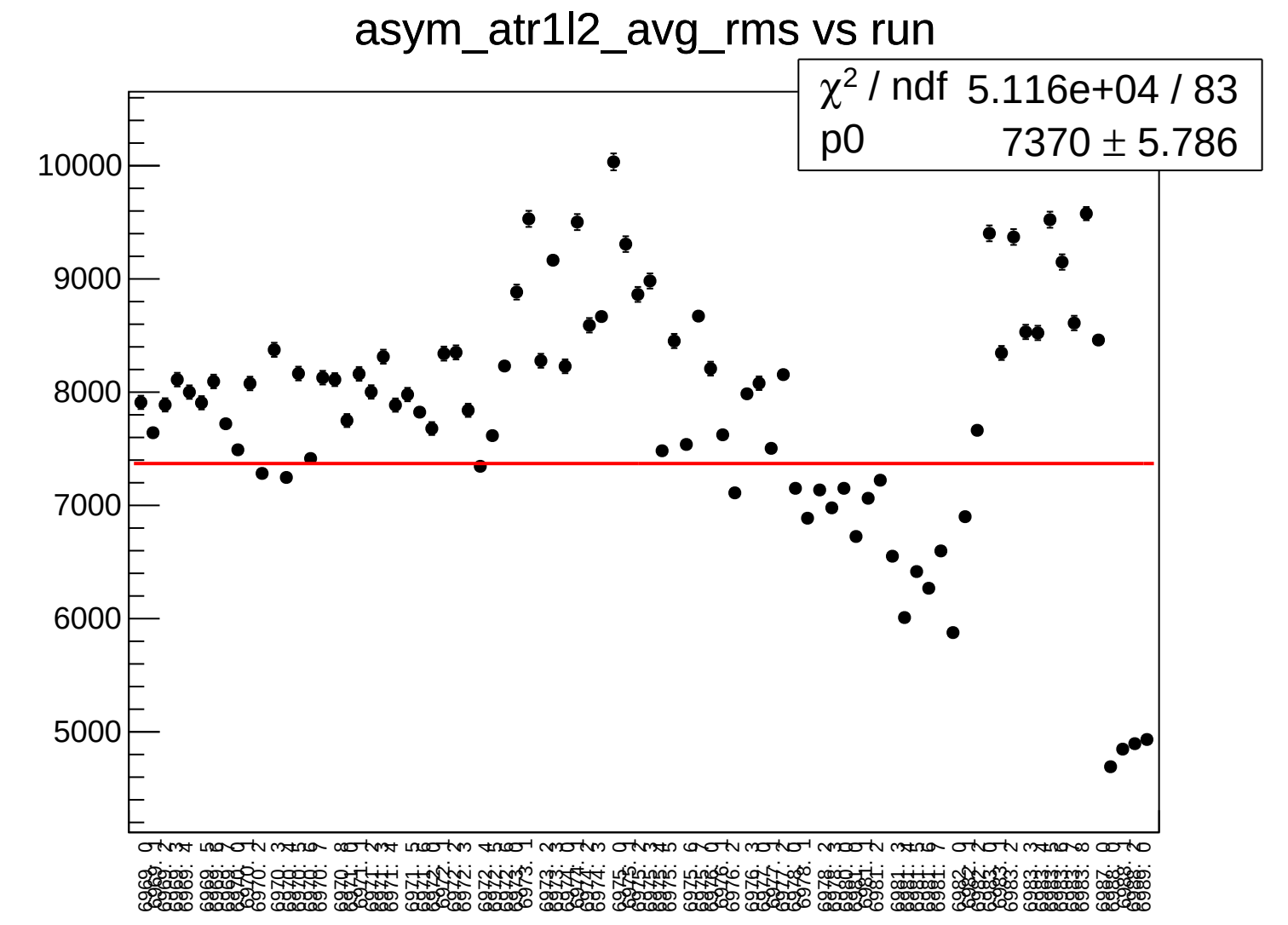

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104.9 / 83
p0 −1.124e+04 ± 8469
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean −42.81
Std Dev 0
2
1
0
−1
−2
−3

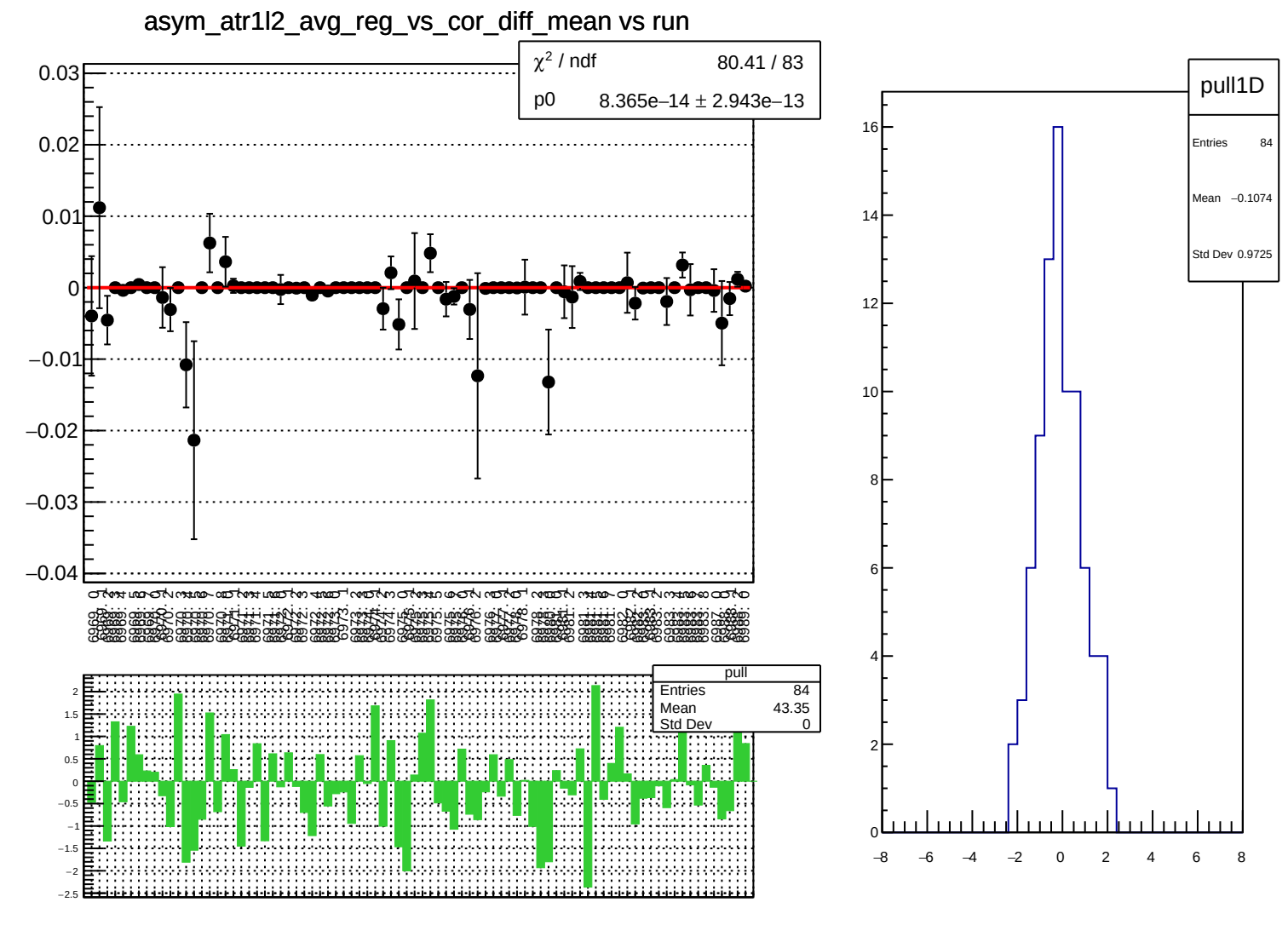

pull1D
Entries 84
Mean −0.04236
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

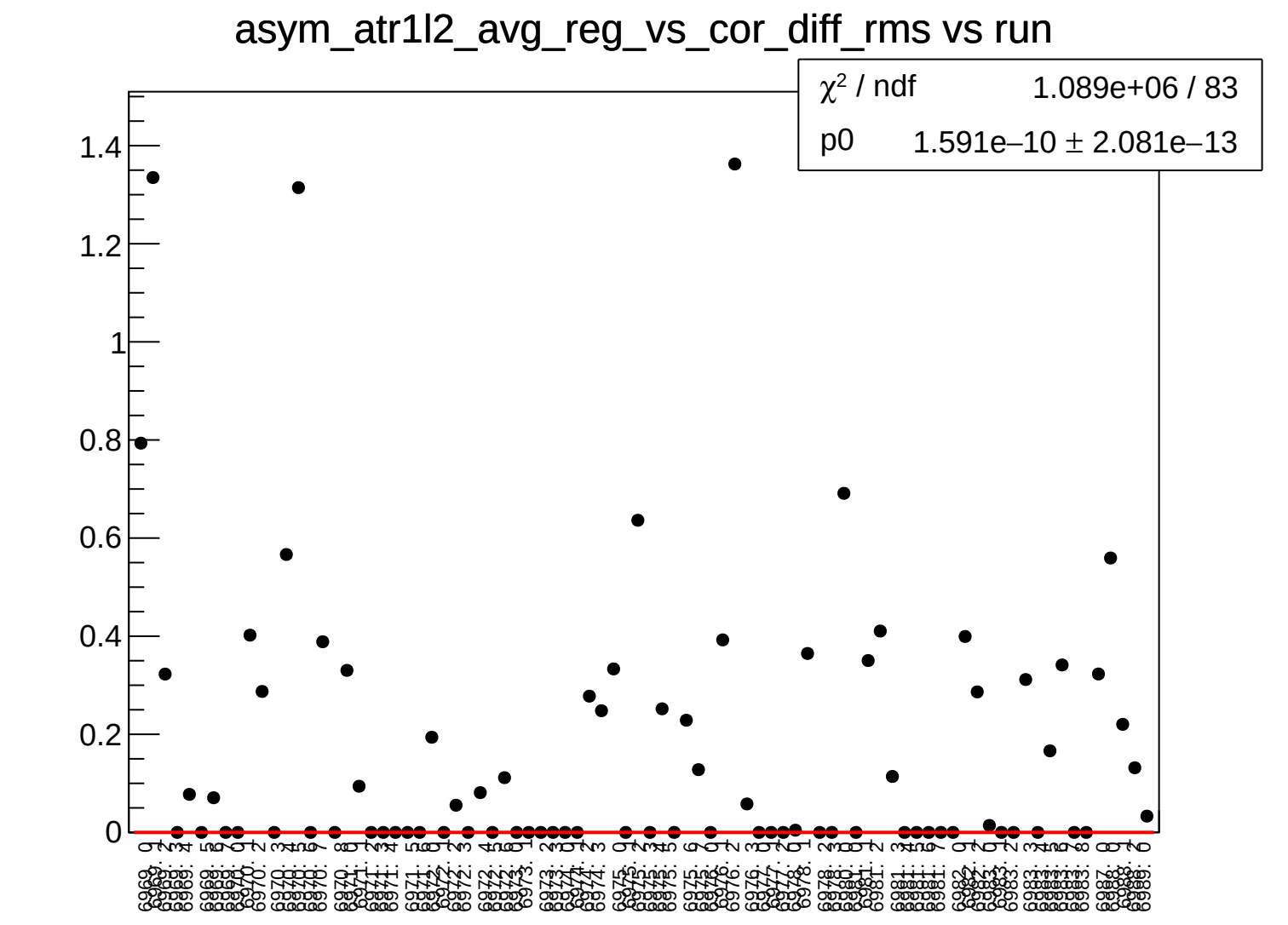

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.493e+04 / 83
p0 7619 ± 5.989
11000
10000
9000
8000
7000
6000
5000

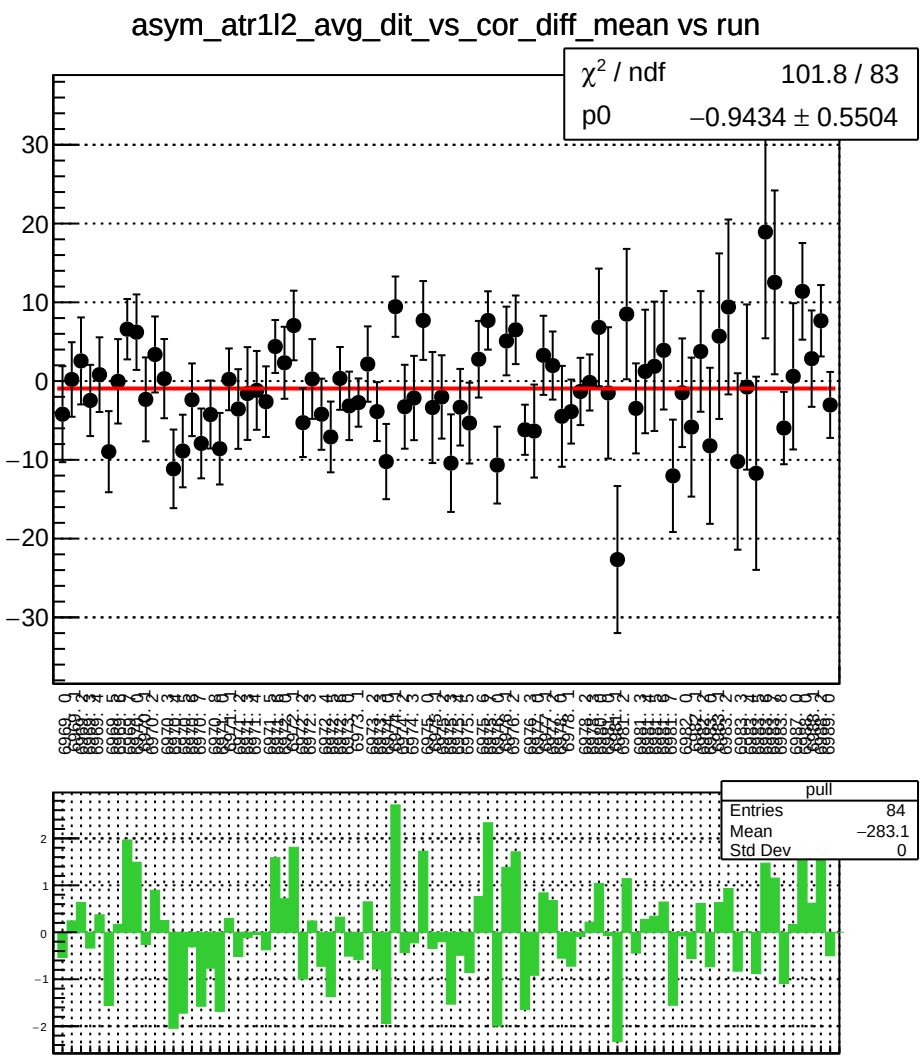

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 103.8 / 83
p0 1.26e+04 ± 8183
pull
Entries 84
Mean −37.21
Std Dev 0

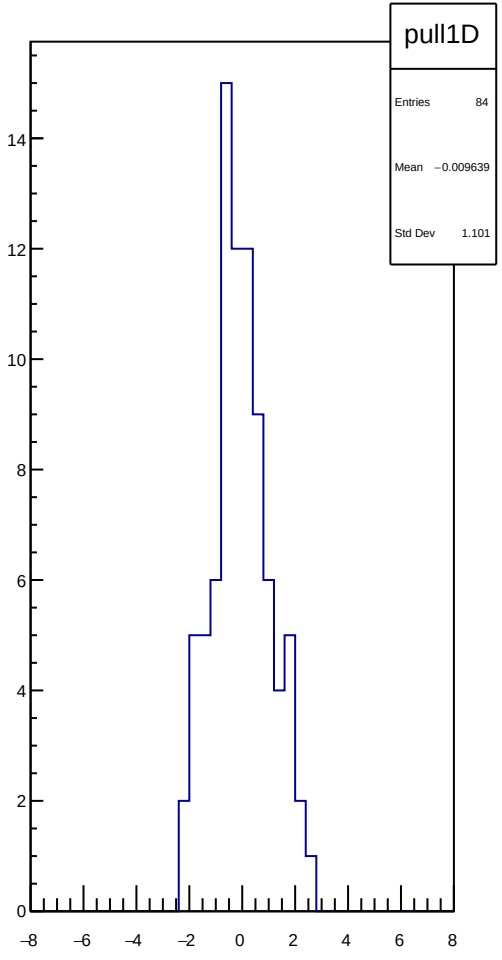

pull1D
Entries 84
Mean 0.03577
Std Dev 1.111

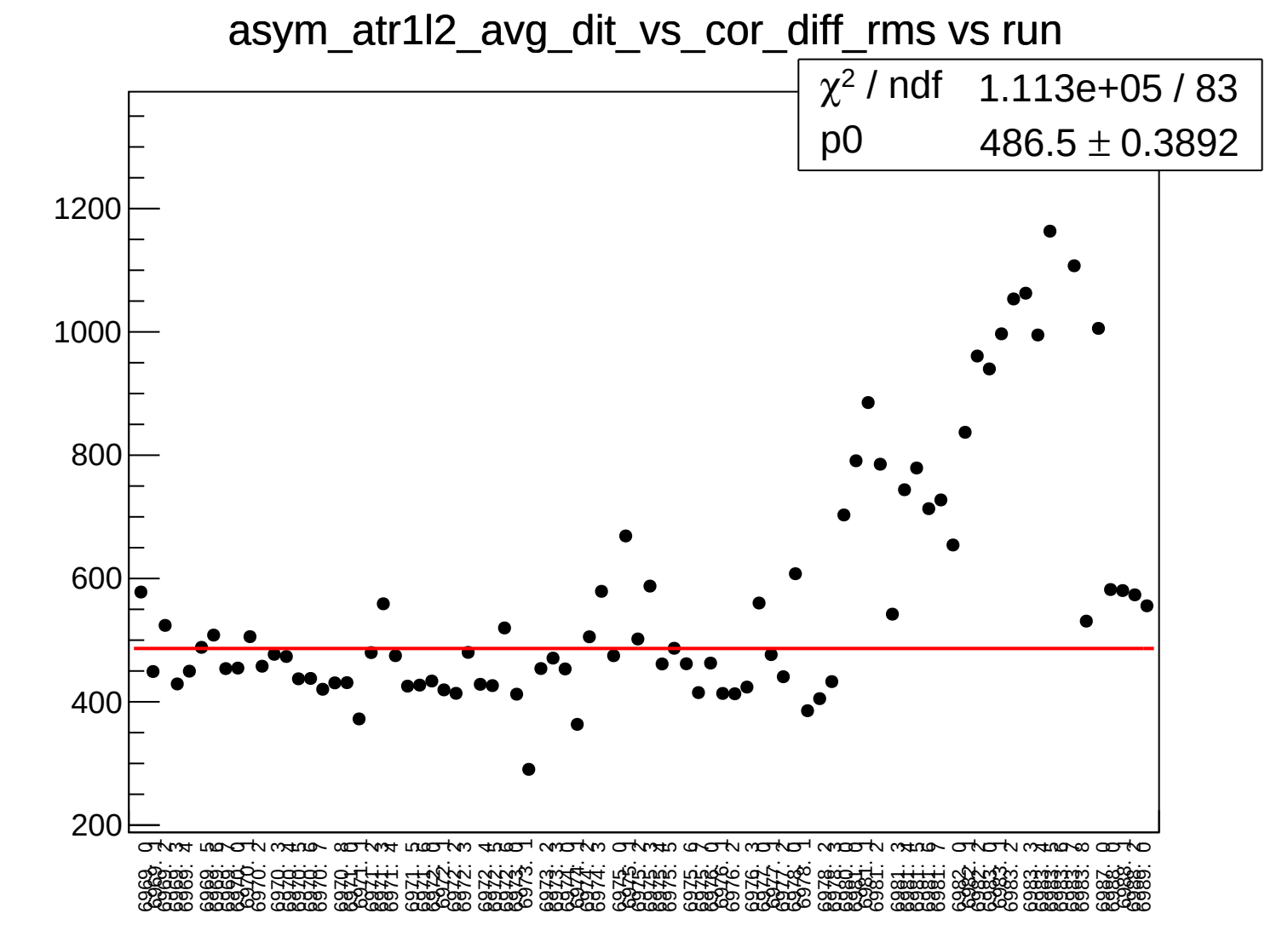

asym_atr1l2_avg_rms vs run
χ^2 / ndf 5.116e+04 / 83
p0 7370 ± 5.786
10000
9000
8000
7000
6000
5000

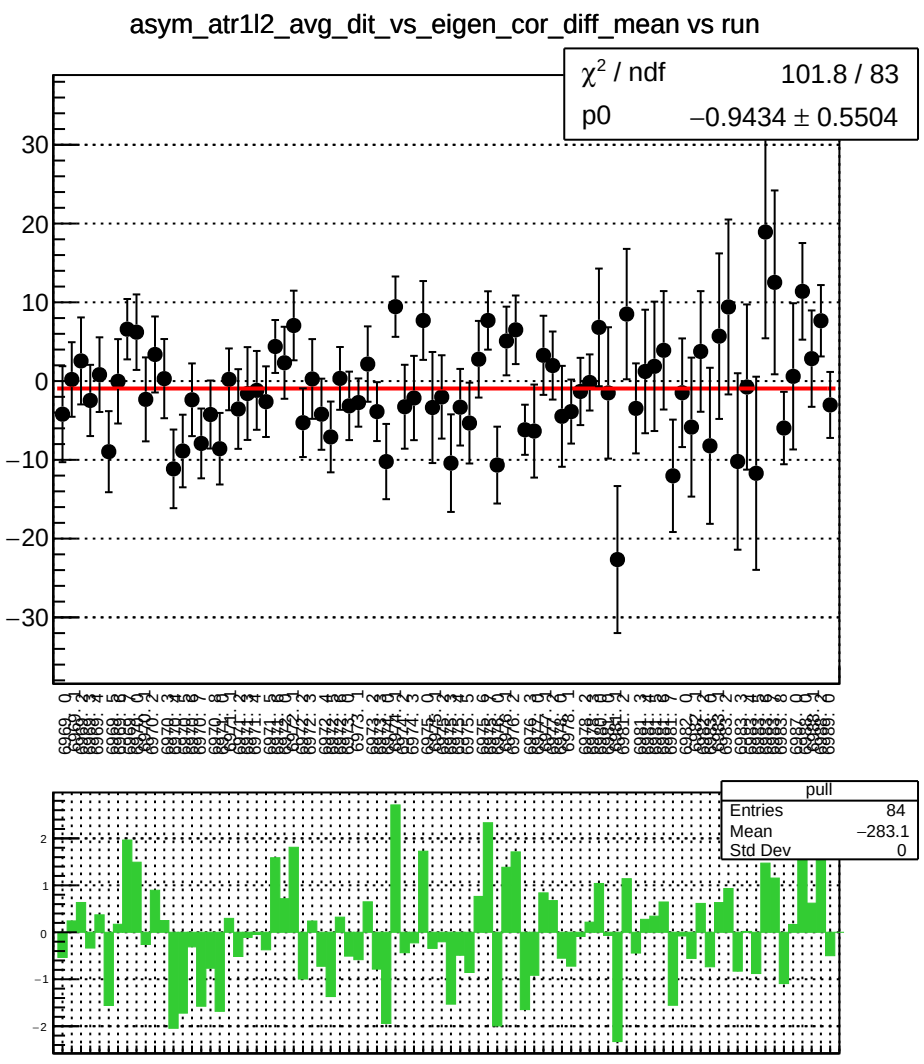

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.41 / 83
p0 8.365e−14 ± 2.943e−13
pull
Entries 84
Mean 43.35
Std Dev 0
pull1D
Entries 84
Mean −0.1074
Std Dev 0.9725

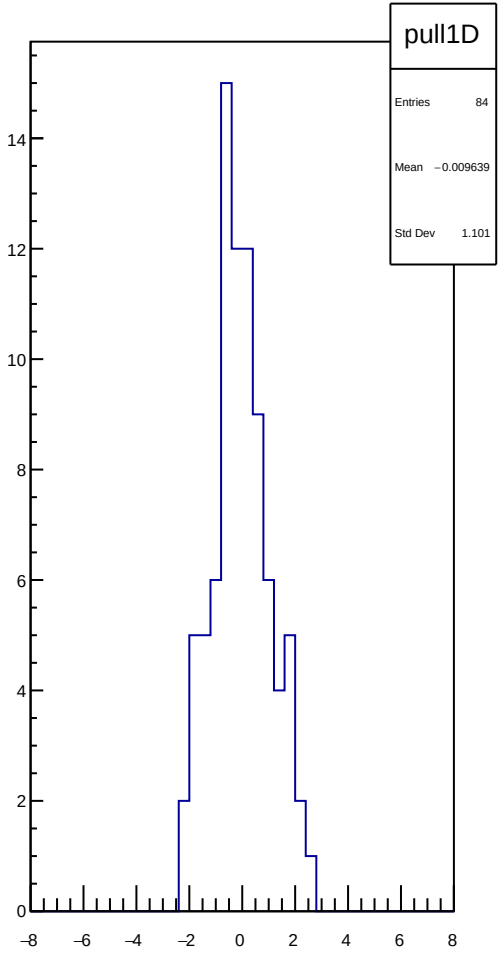

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.089e+06 / 83
p0 1.591e−10 ± 2.081e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

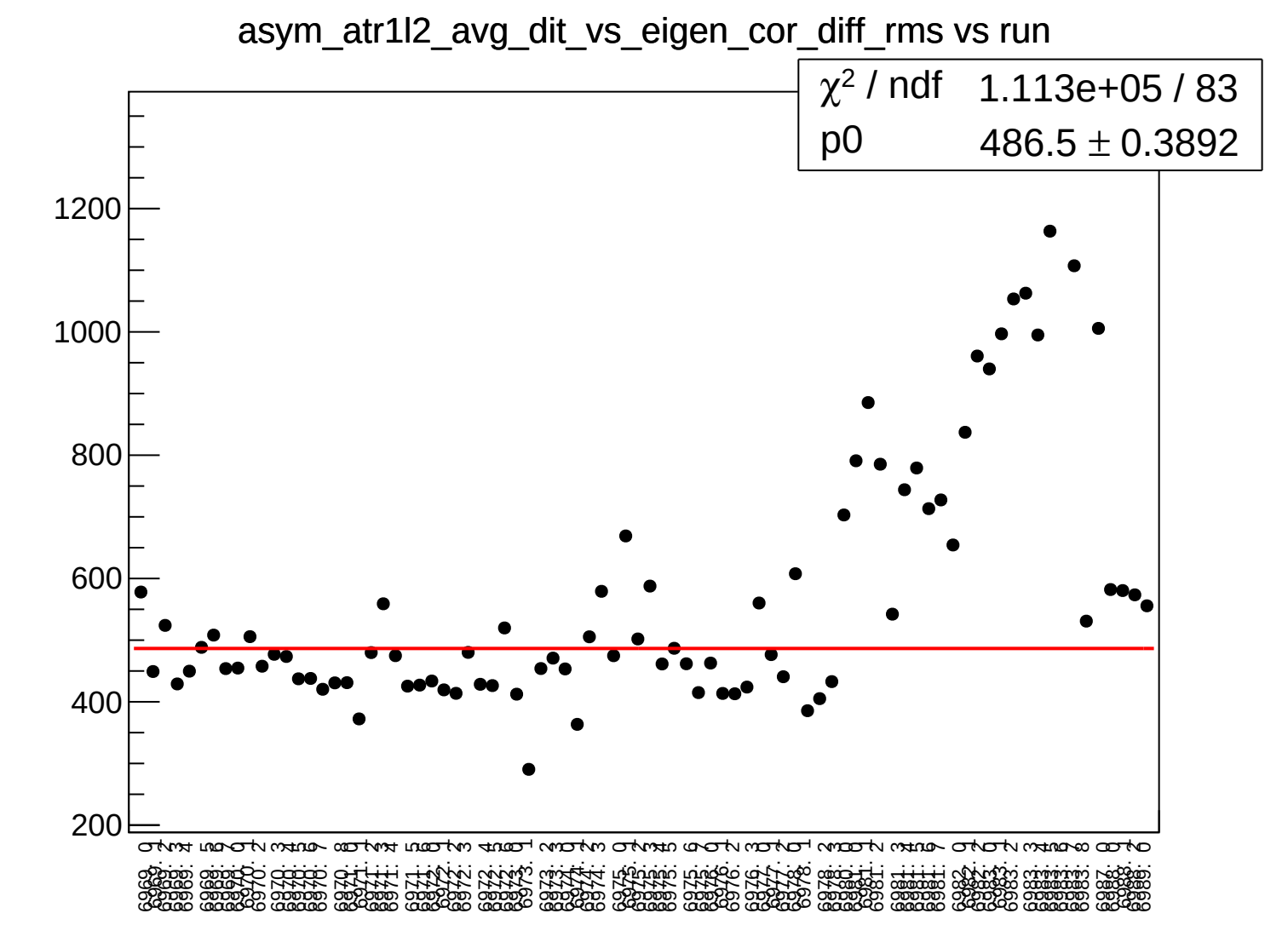

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 83
p0 −0.9434 ± 0.5504
pull
Entries 84
Mean −283.1
Std Dev 0

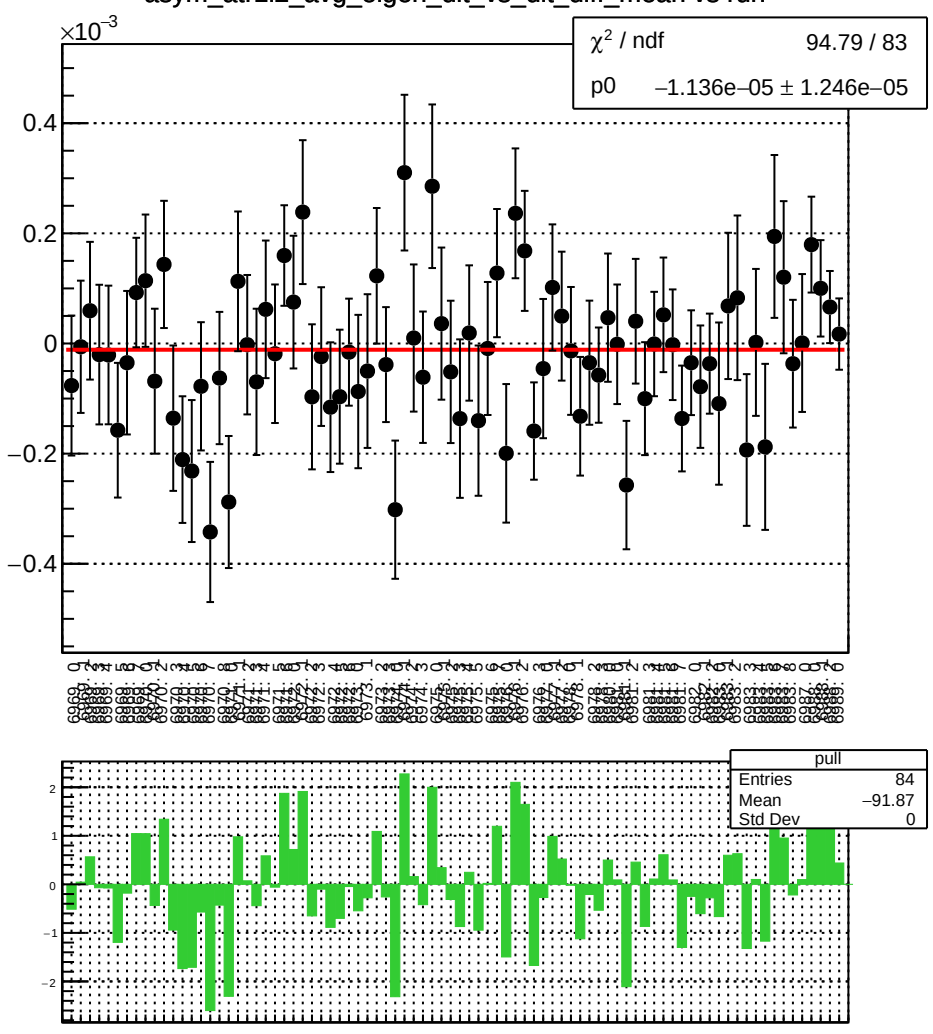

pull1D
Entries 84
Mean −0.009639
Std Dev 1.101

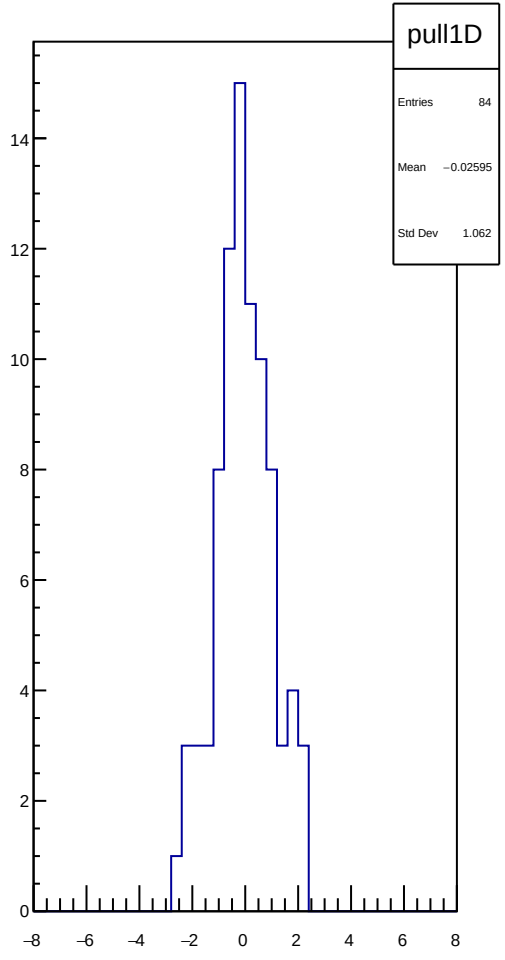

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 83
p0 486.5 ± 0.3892
1200
1000
800
600
400
200

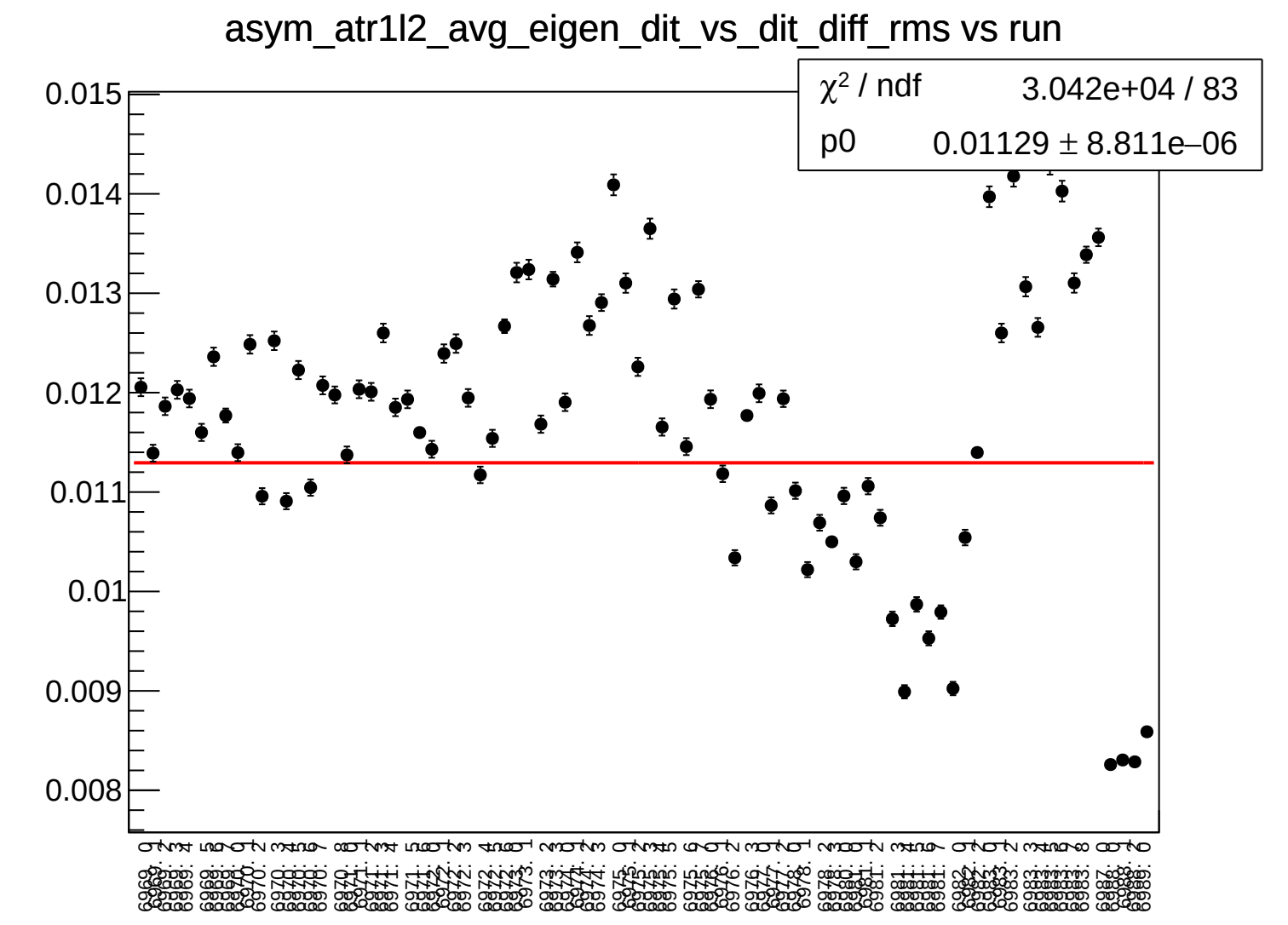

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.8 / 83
p0 −0.9434 ± 0.5504
pull
Entries 84
Mean −283.1
Std Dev 0

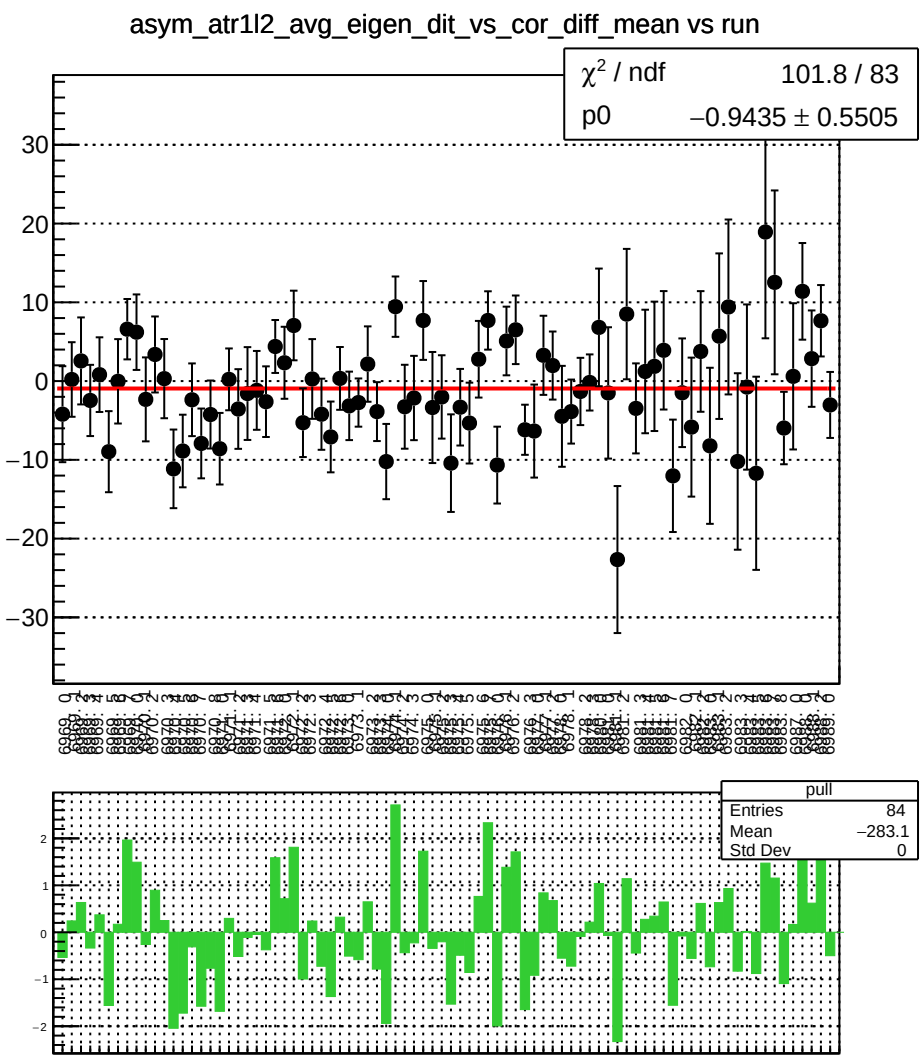

pull1D
Entries 84
Mean −0.009639
Std Dev 1.101

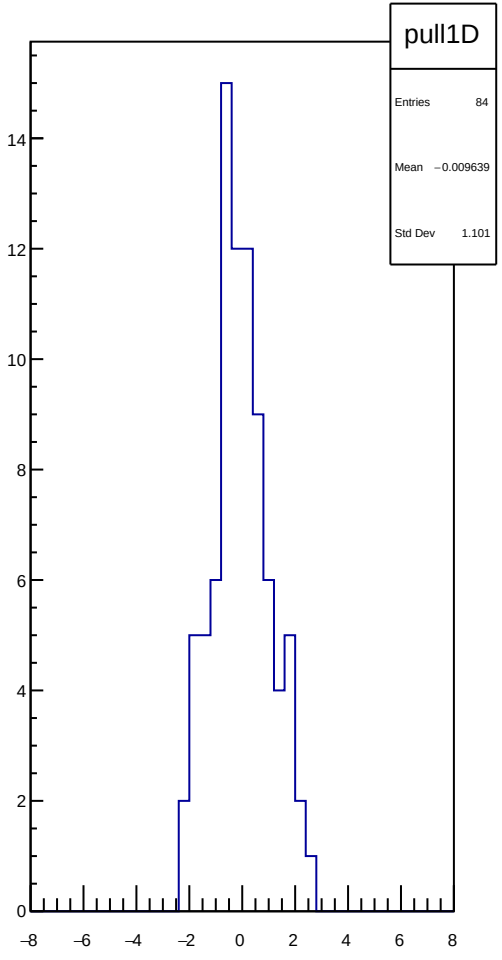

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 83
p0 486.5 ± 0.3892
1200
1000
800
600
400
200

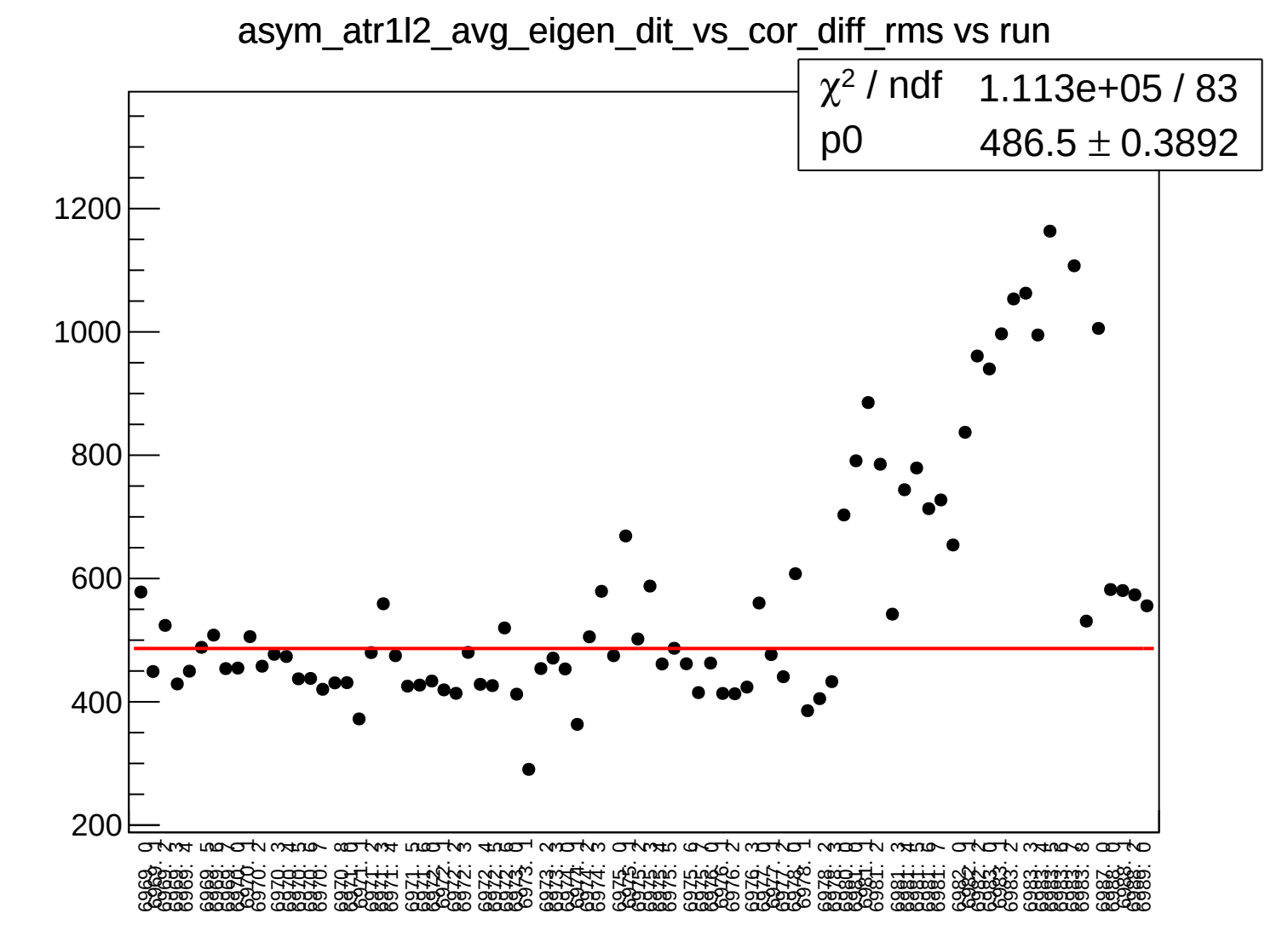

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 94.79 / 83
p0 −1.136e−05 ± 1.246e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 84
Mean −91.87
Std Dev 0
2
1
0
−1
−2

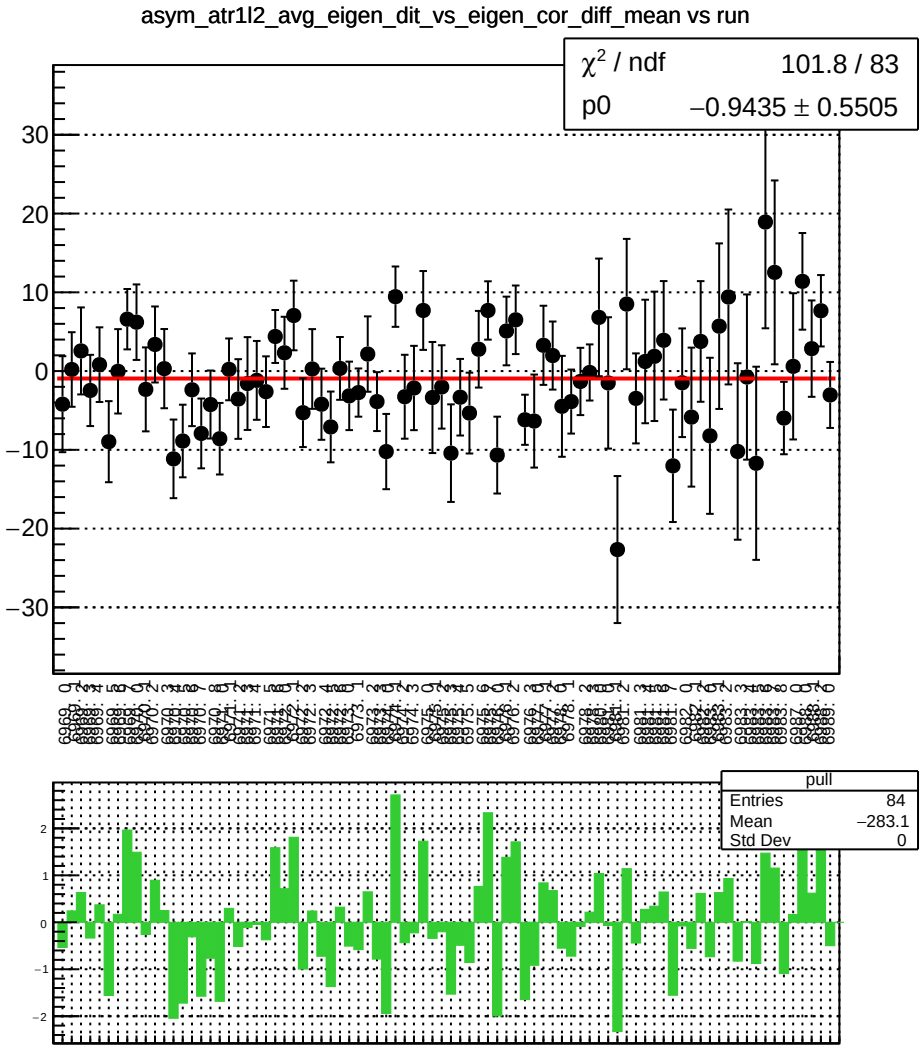

pull1D
Entries 84
Mean −0.02595
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

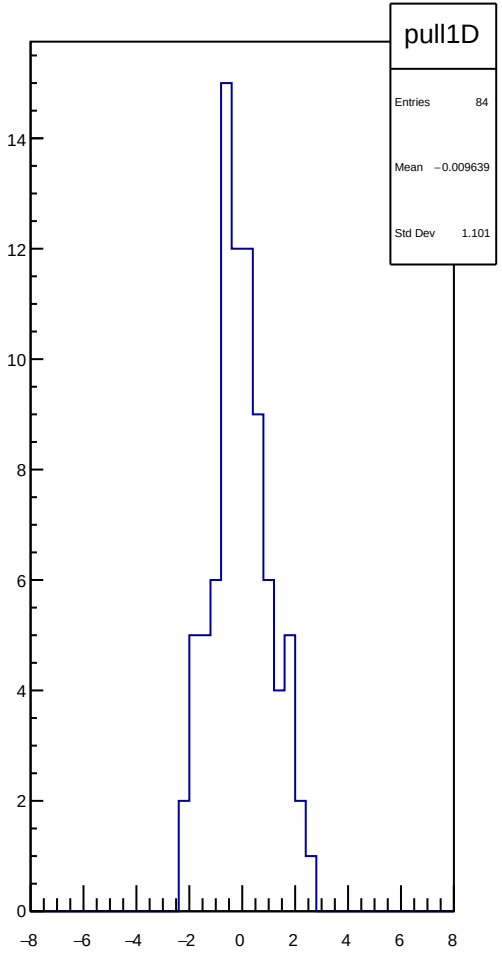

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.042e+04 / 83
p0 0.01129 ± 8.811e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

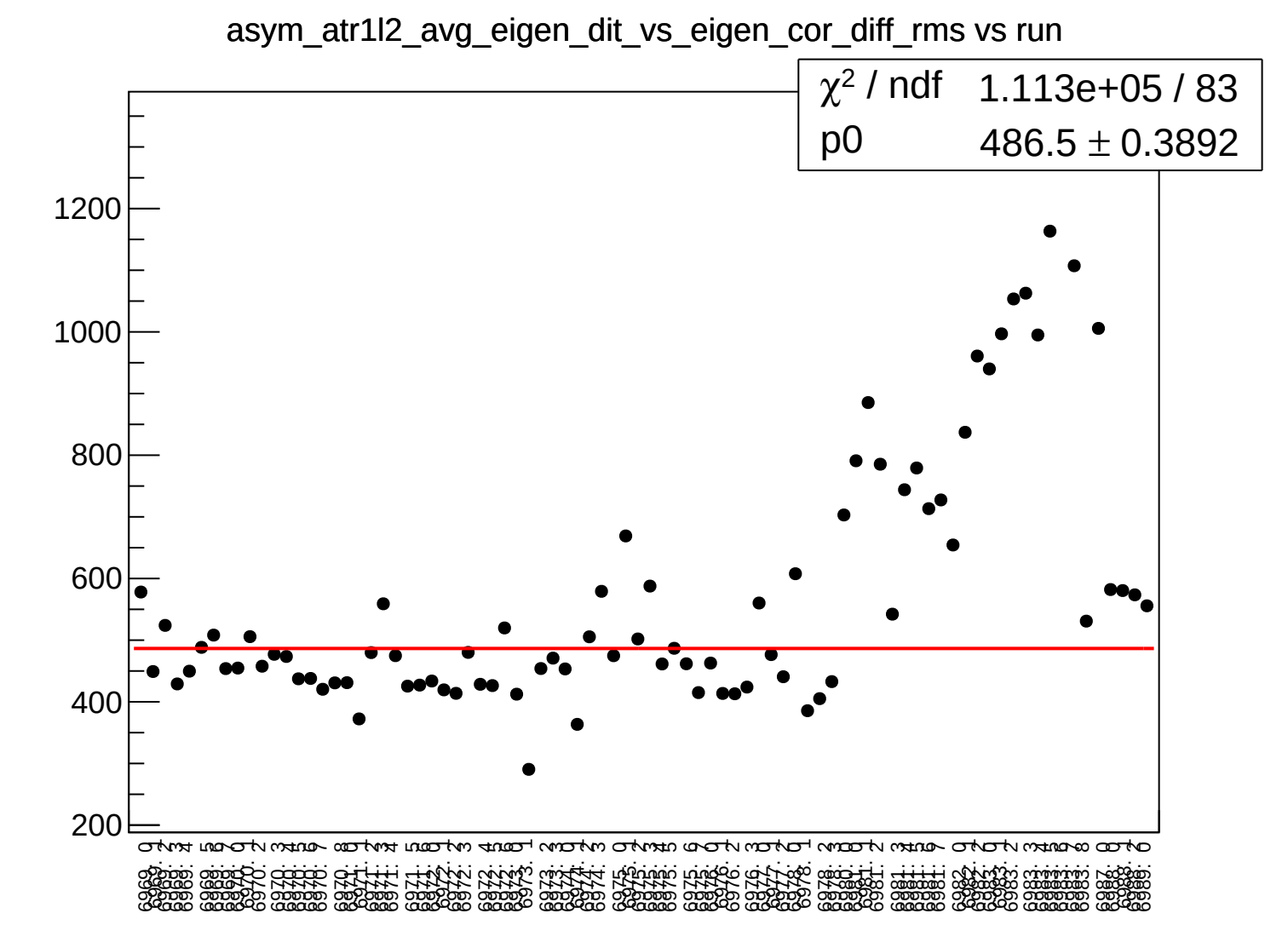

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 83
p0 −0.9435 ± 0.5505
pull
Entries 84
Mean −283.1
Std Dev 0

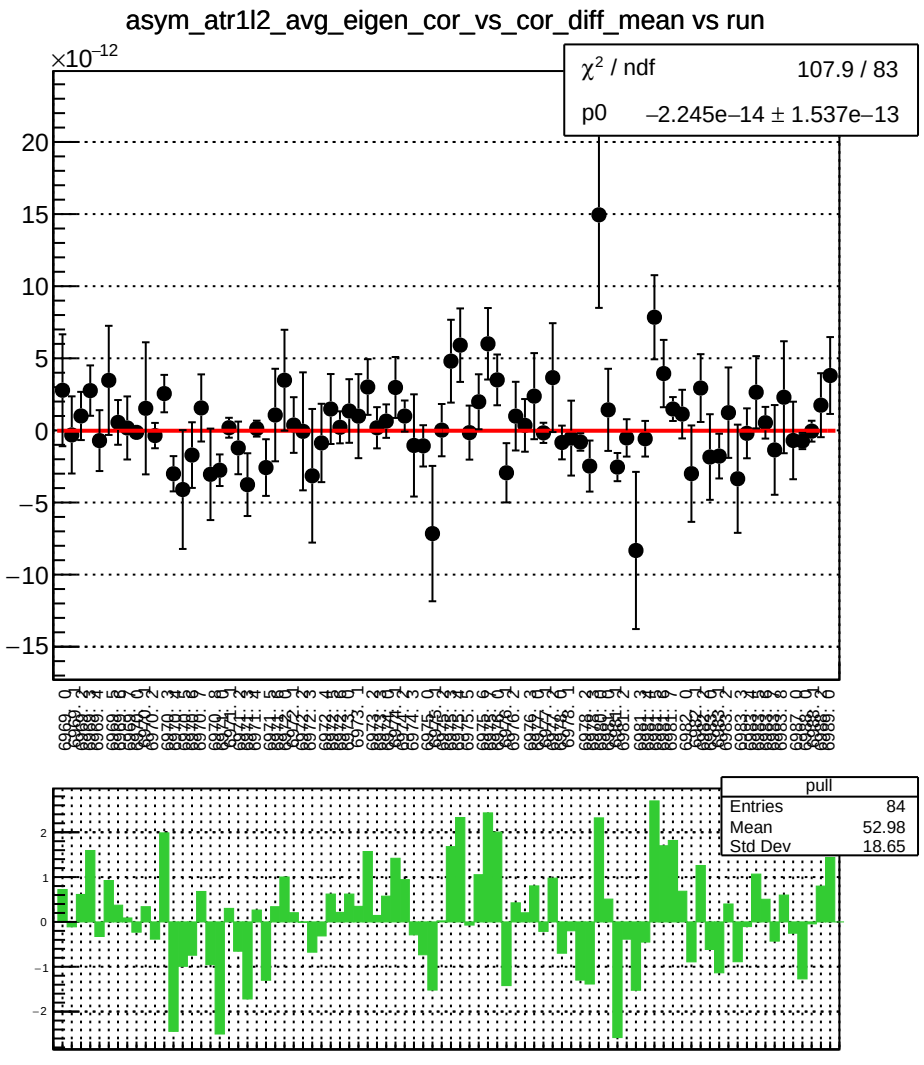

pull1D
Entries 84
Mean −0.009639
Std Dev 1.101

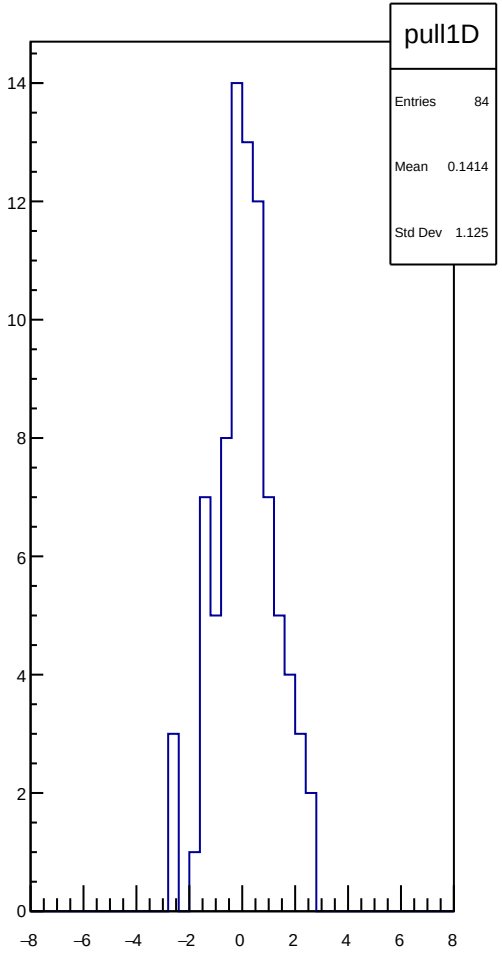

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 83
p0 486.5 ± 0.3892
1200
1000
800
600
400
200

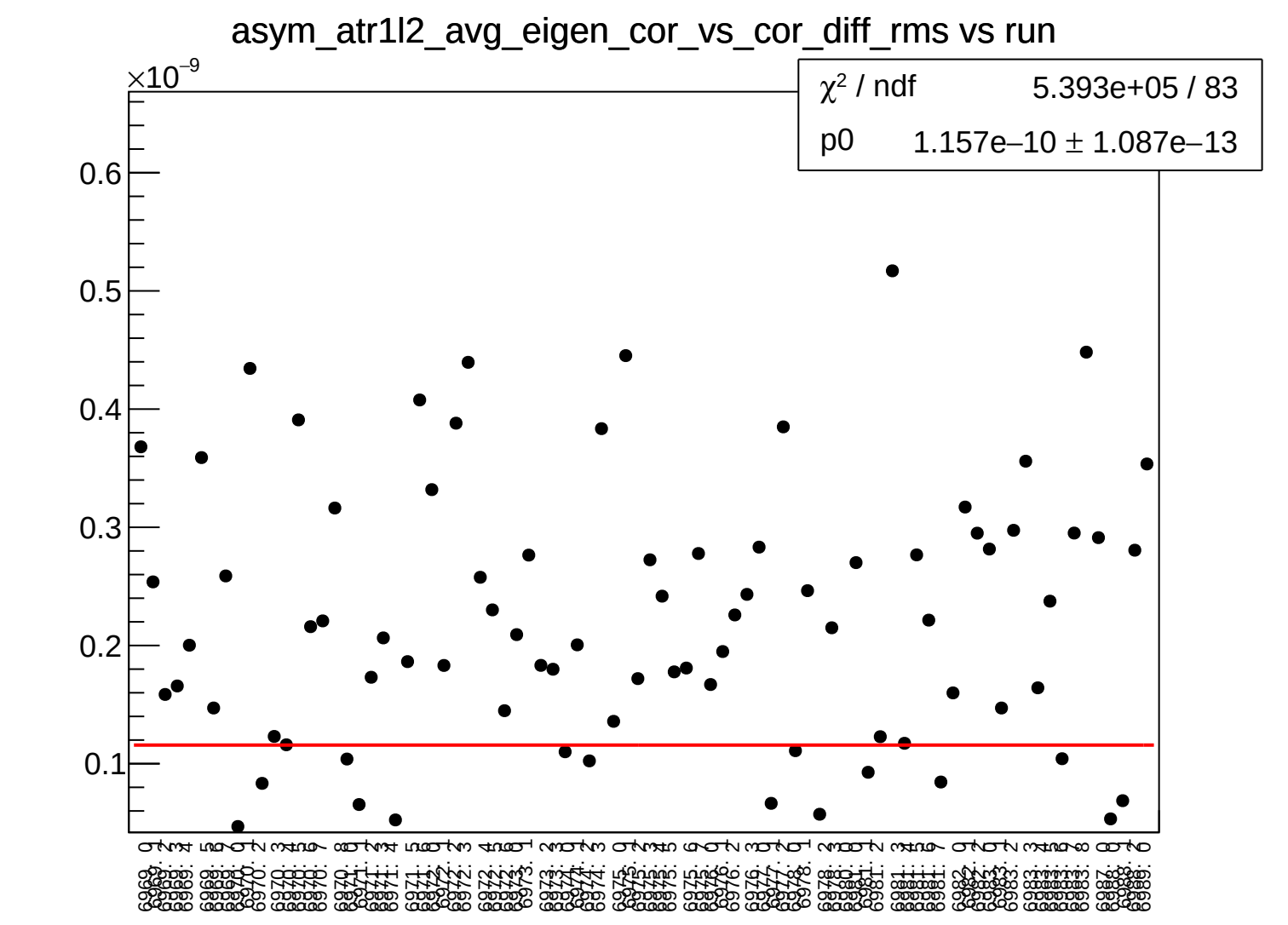

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.8 / 83
p0 −0.9435 ± 0.5505
pull
Entries 84
Mean −283.1
Std Dev 0

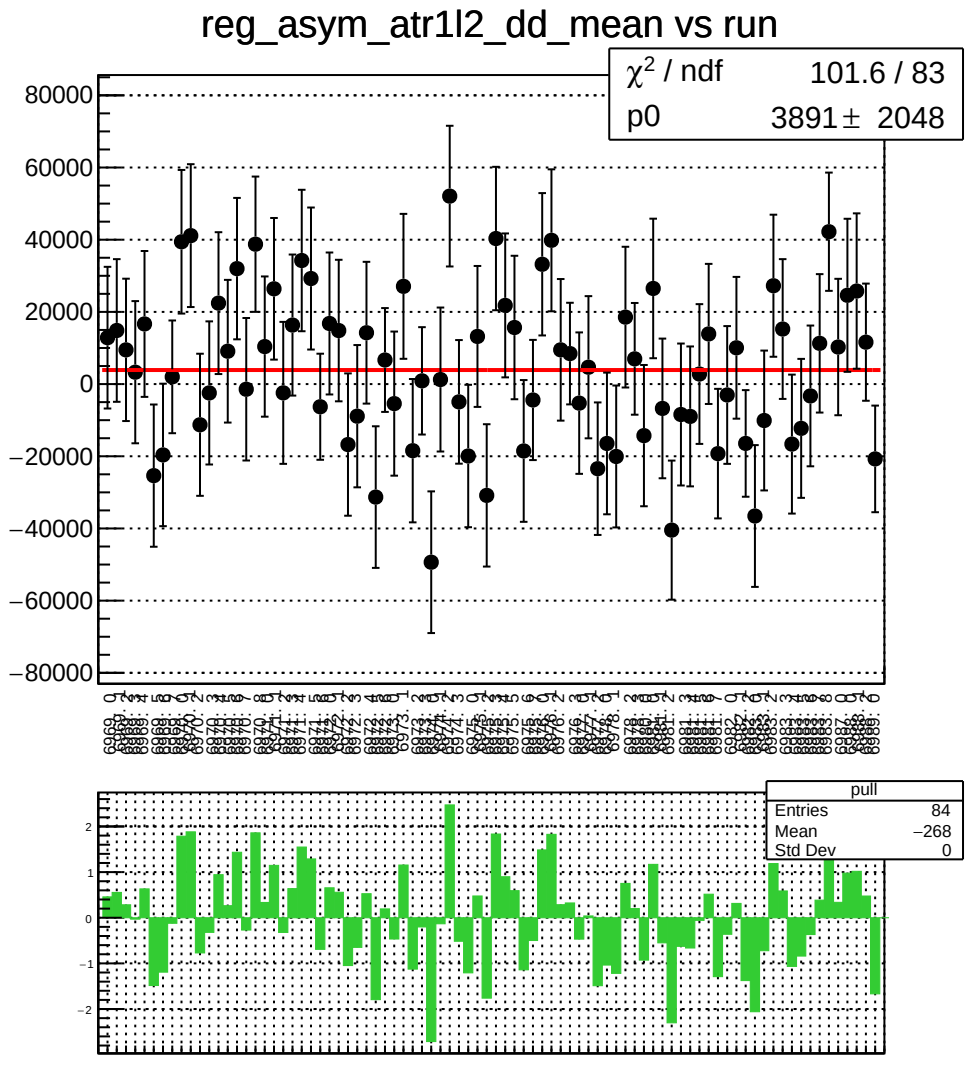

pull1D
Entries 84
Mean −0.009639
Std Dev 1.101

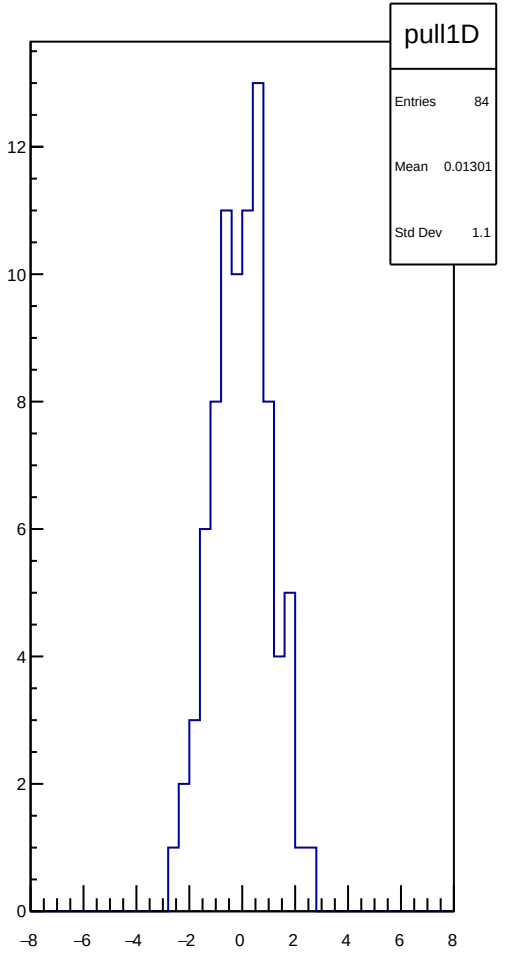

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 83
p0 486.5 ± 0.3892
1200
1000
800
600
400
200

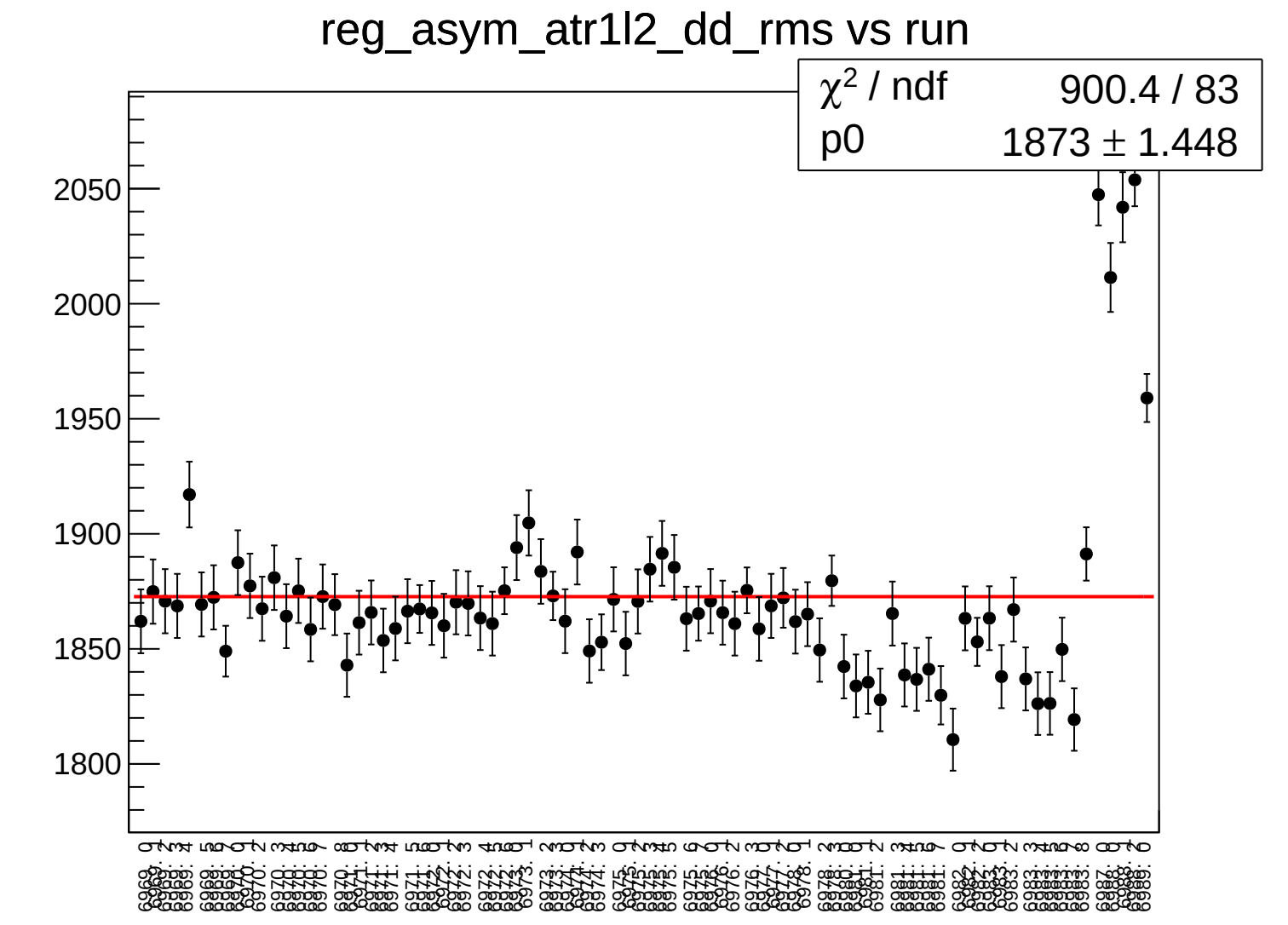

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.9 / 83
p0 −2.245e−14 ± 1.537e−13
pull
Entries 84
Mean 52.98
Std Dev 18.65

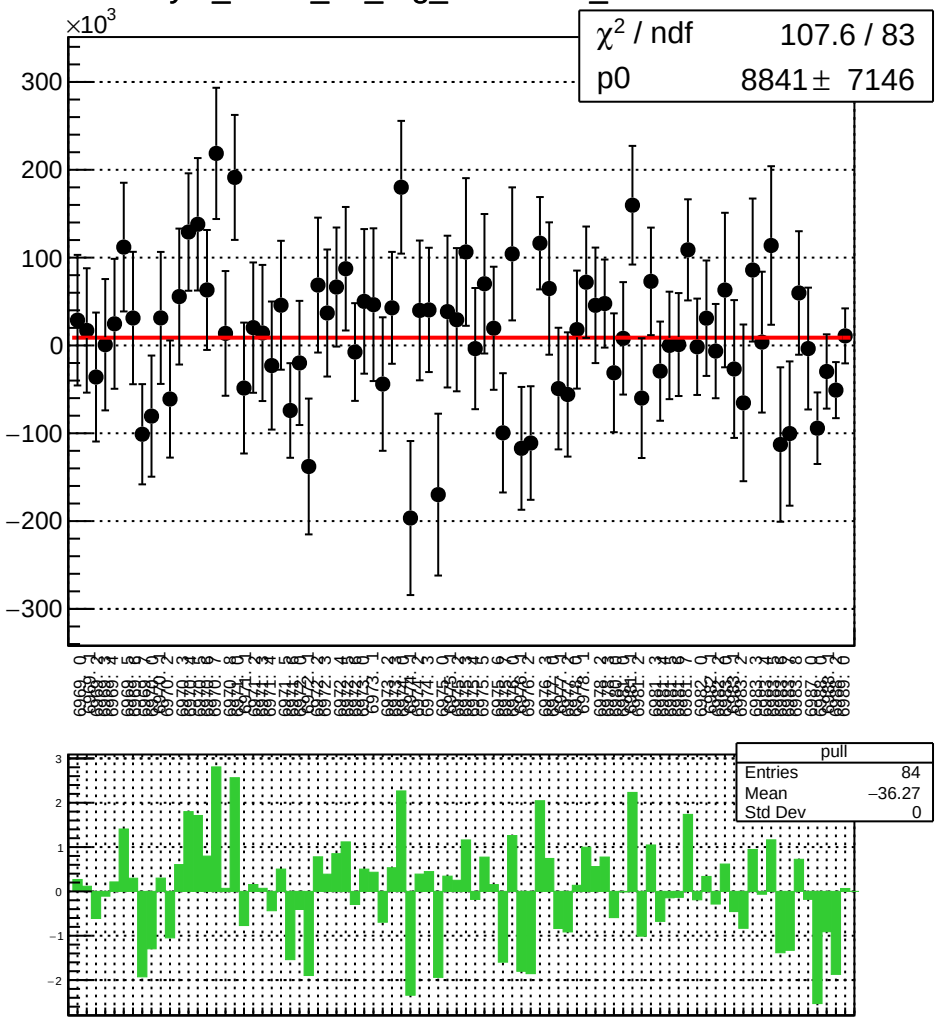

pull1D
Entries 84
Mean 0.1414
Std Dev 1.125

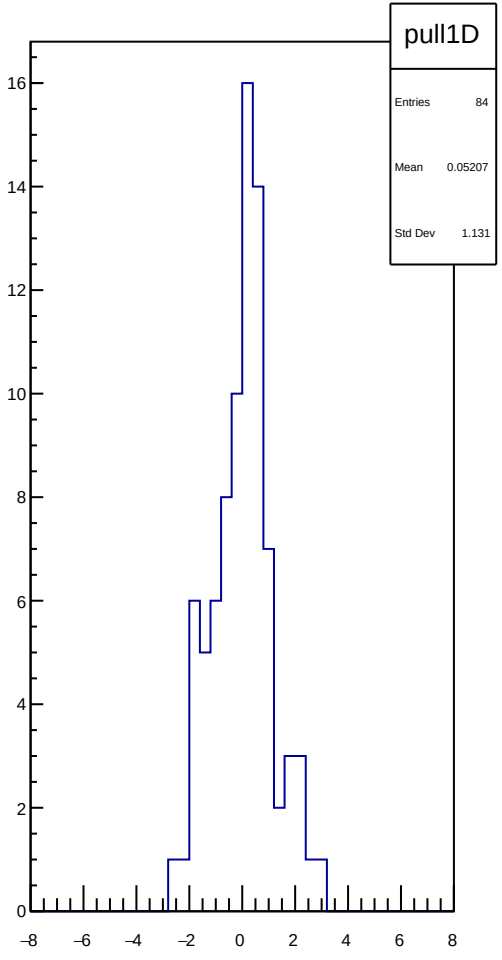

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.393e+05 / 83
p0 1.157e−10 ± 1.087e−13
0.6
0.5
0.4
0.3
0.2
0.1

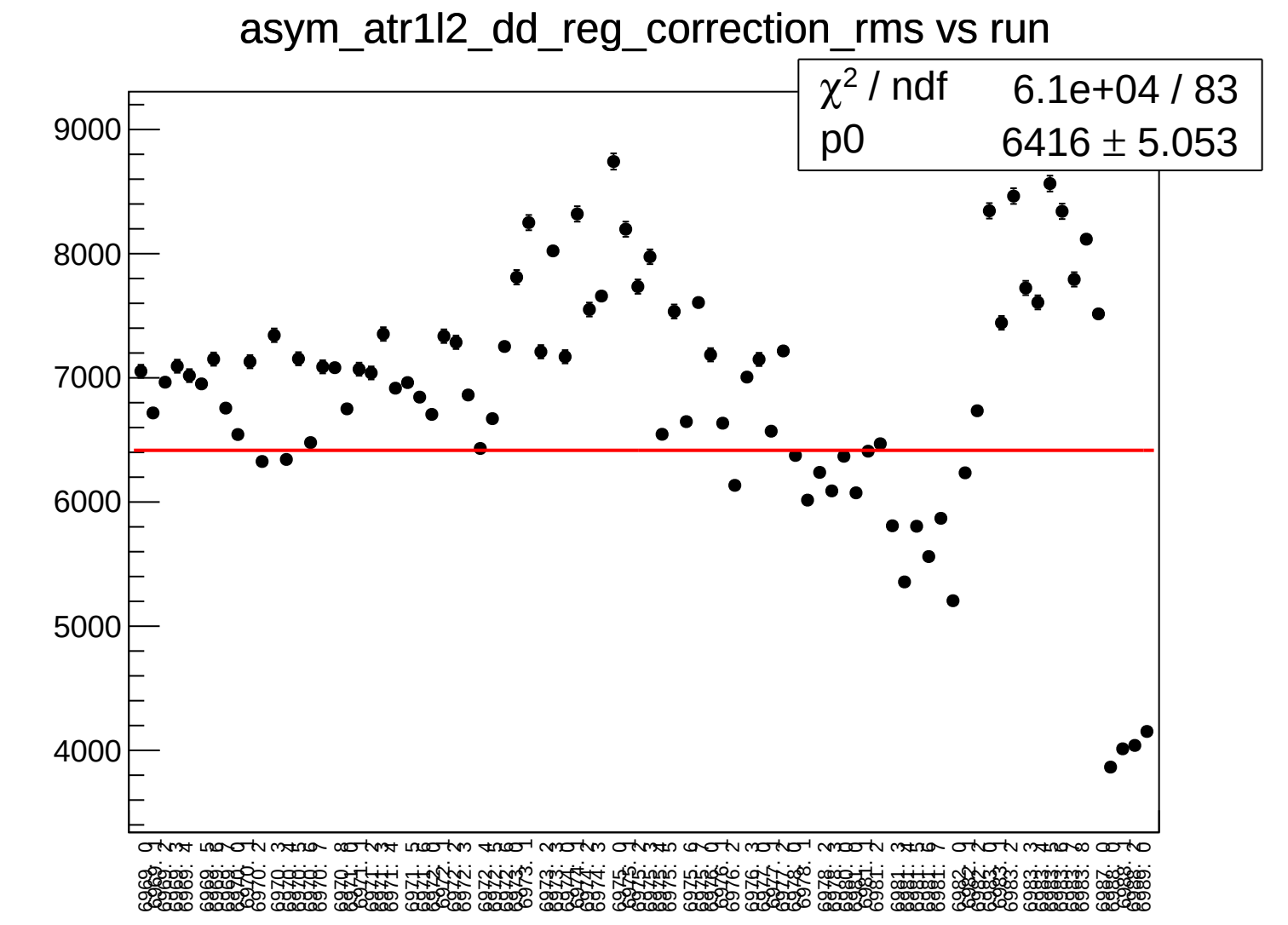

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 101.6 / 83
p0 3891 ± 2048
pull
Entries 84
Mean −268
Std Dev 0

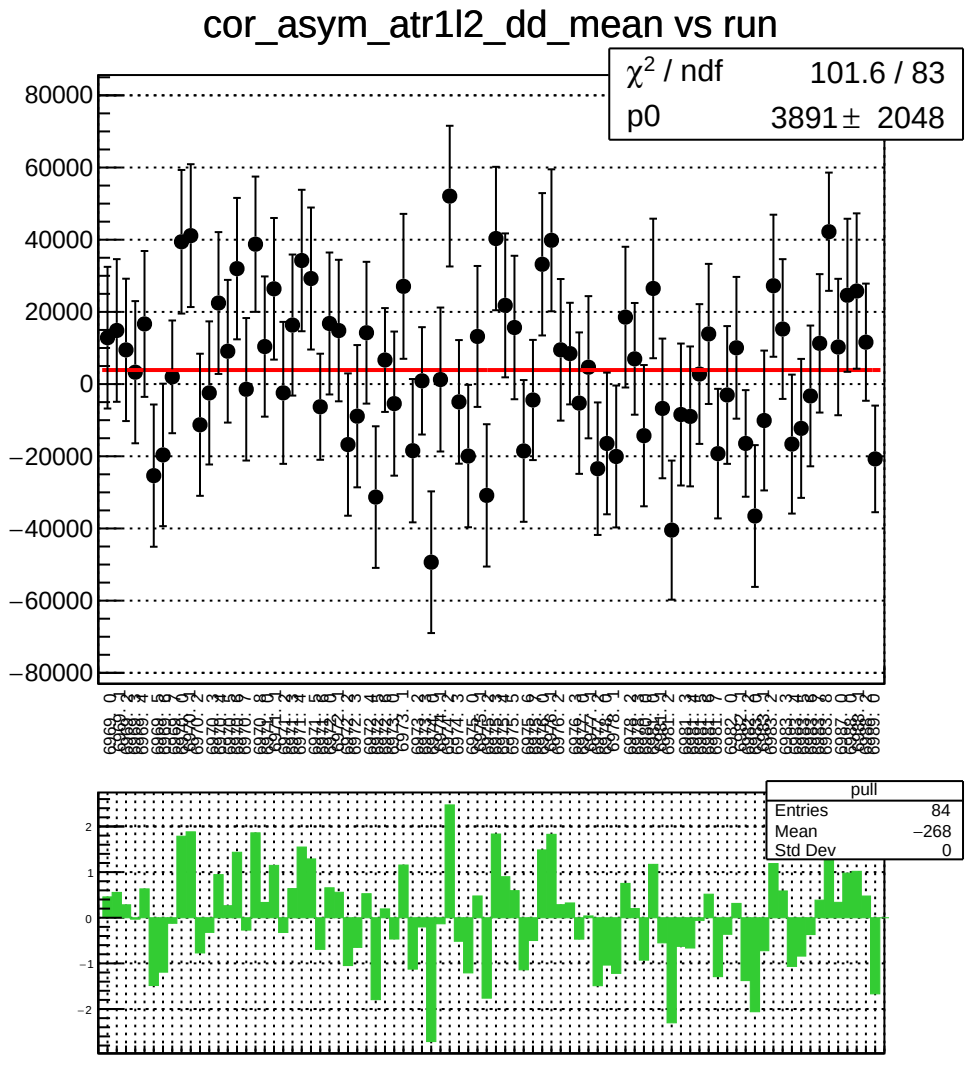

pull1D
Entries 84
Mean 0.01301
Std Dev 1.1

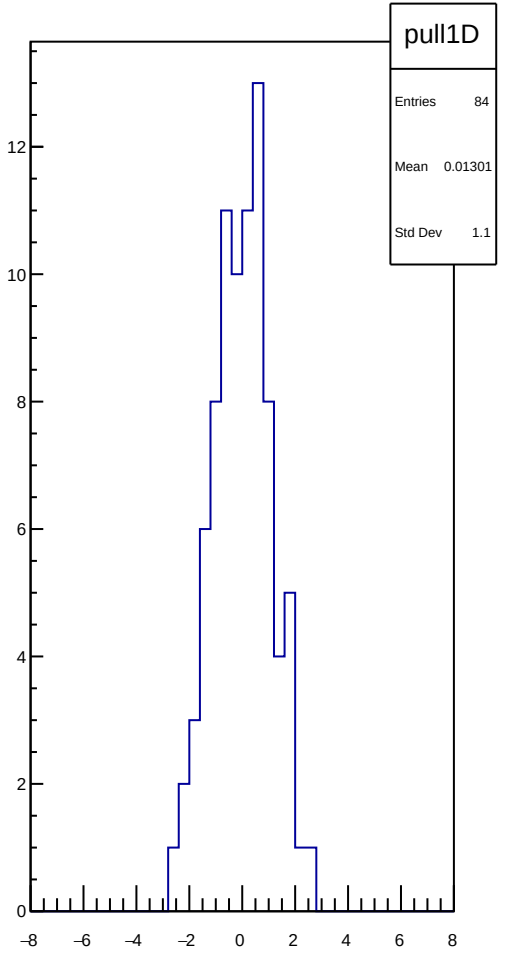

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 900.4 / 83
p0 1873 ± 1.448
2050
2000
1950
1900
1850
1800

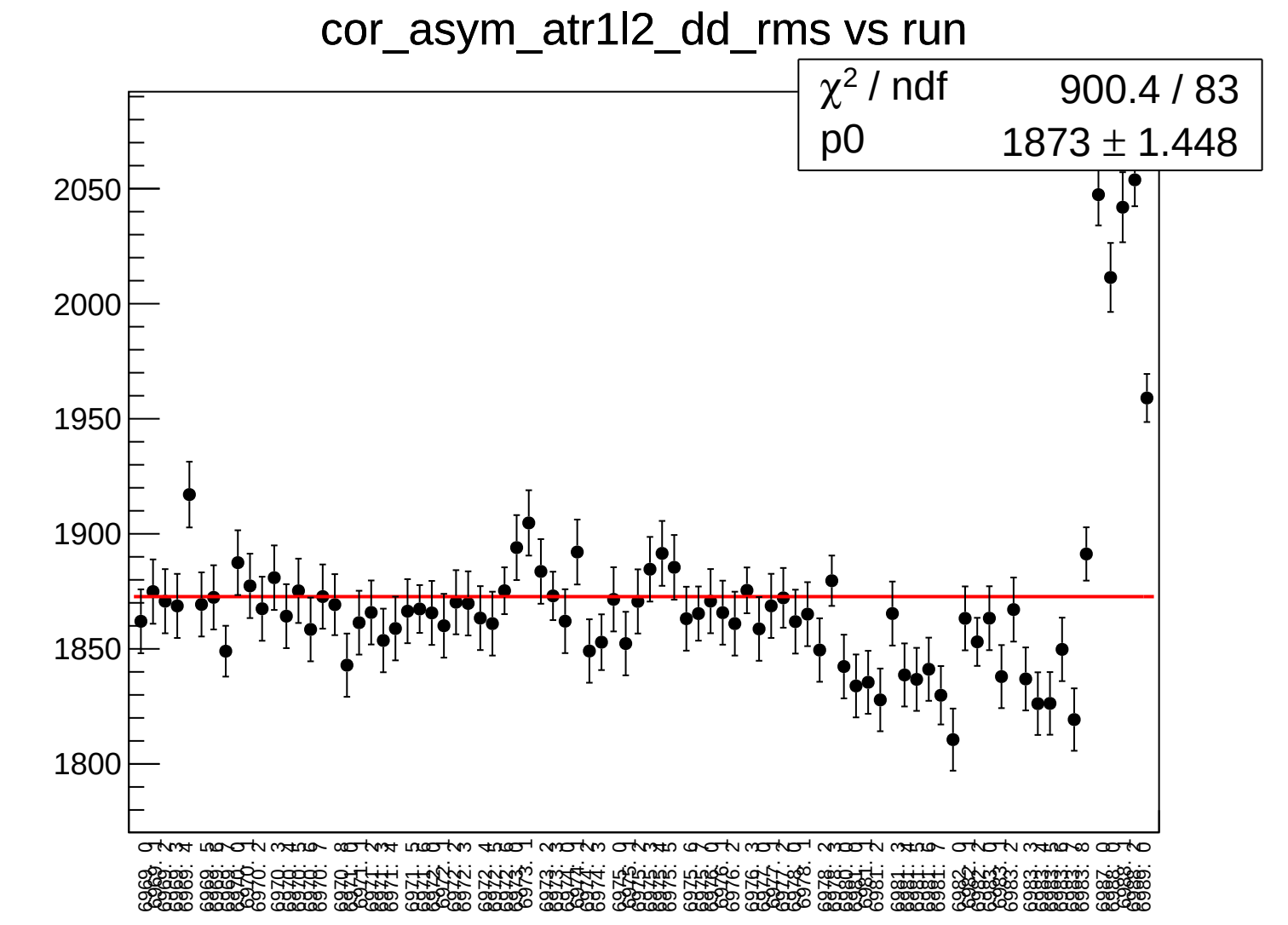

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 107.6 / 83
p0 8841 ± 7146
pull
Entries 84
Mean −36.27
Std Dev 0

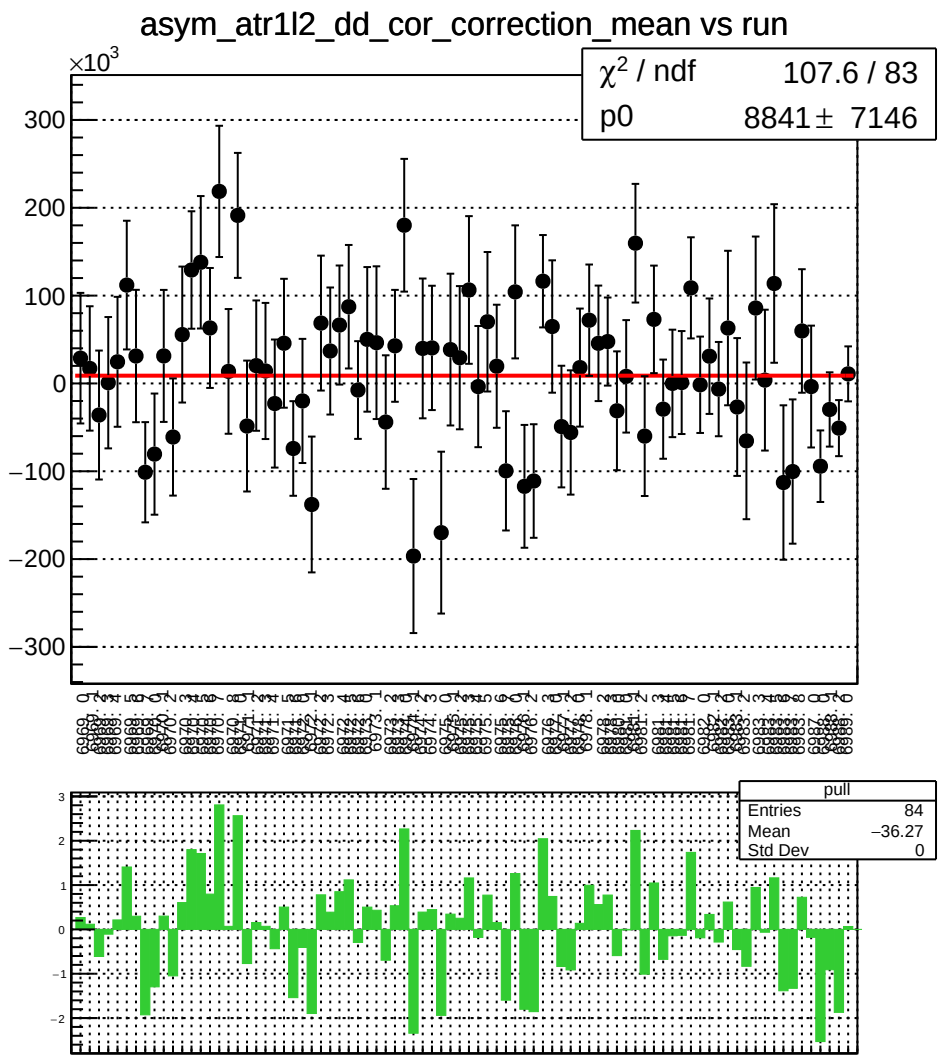

pull1D
Entries 84
Mean 0.05207
Std Dev 1.131

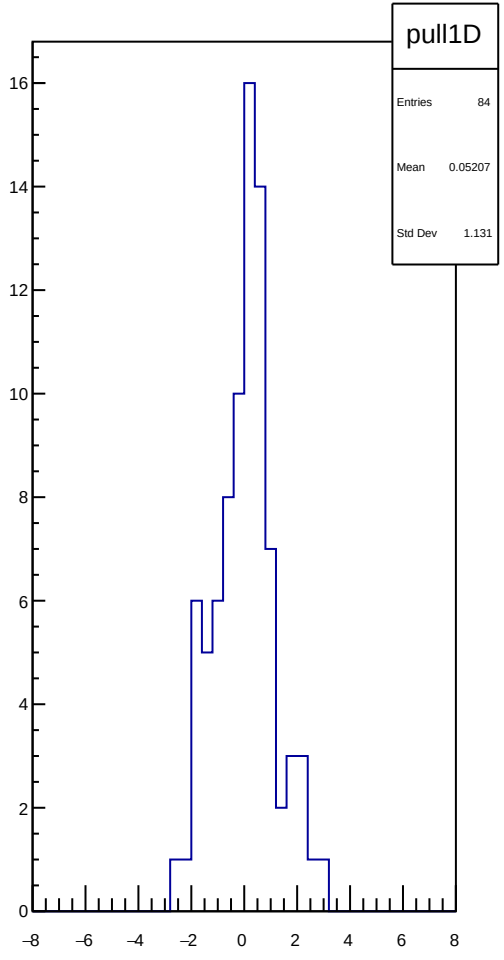

asym_atr1l2_dd_reg_correction_rms vs run
χ^2 / ndf 6.1e+04 / 83
p0 6416 ± 5.053
9000
8000
7000
6000
5000
4000

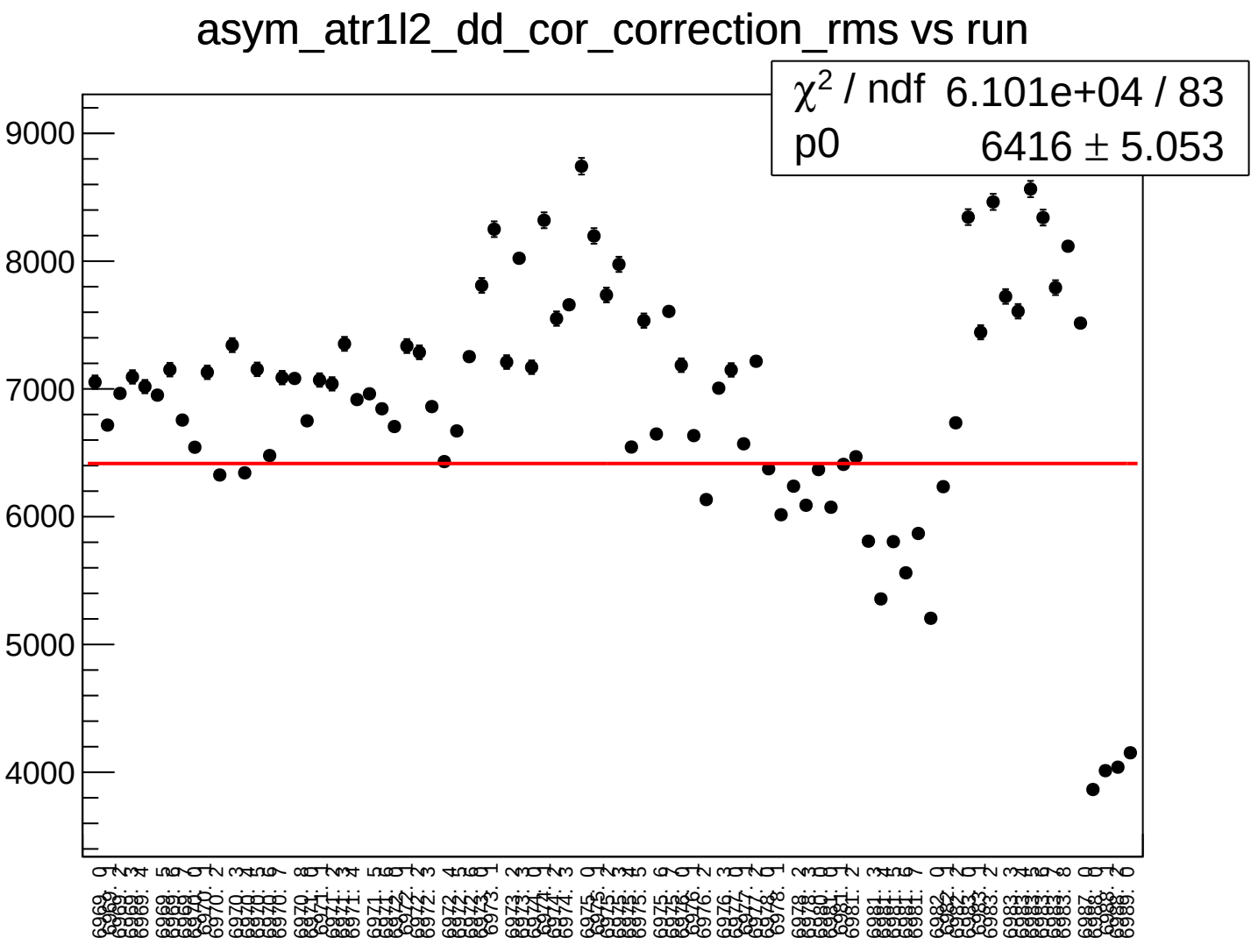

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 101.6 / 83
p0 3891 ± 2048
pull
Entries 84
Mean −268
Std Dev 0

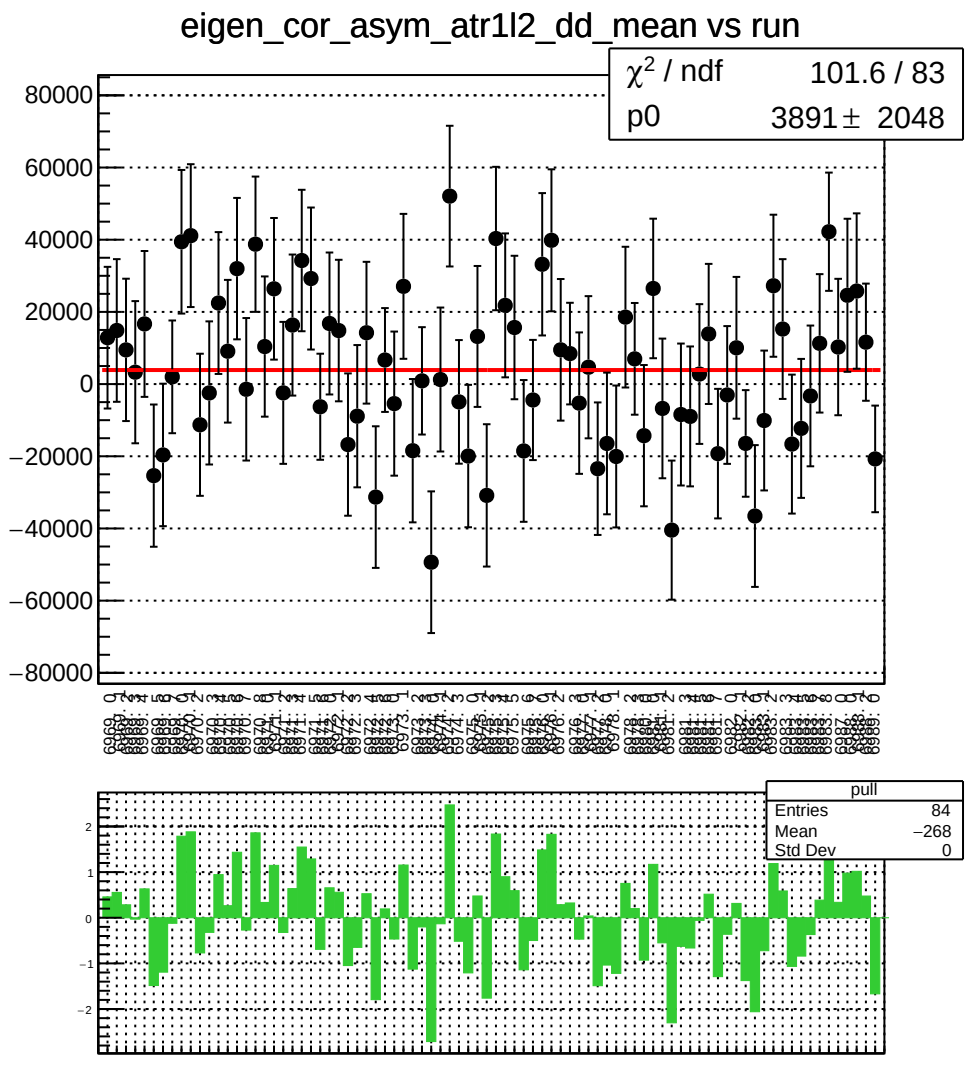

pull1D
Entries 84
Mean 0.01301
Std Dev 1.1

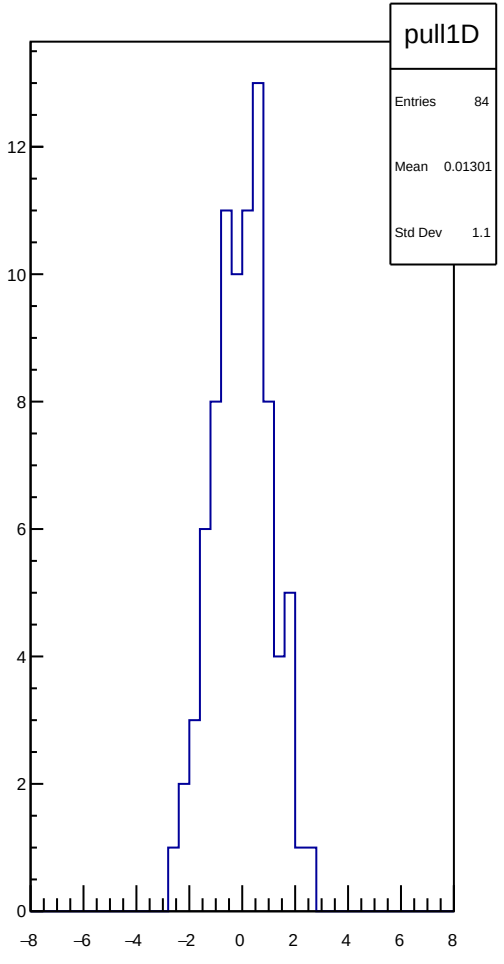

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 900.4 / 83
p0 1873 ± 1.448
2050
2000
1950
1900
1850
1800

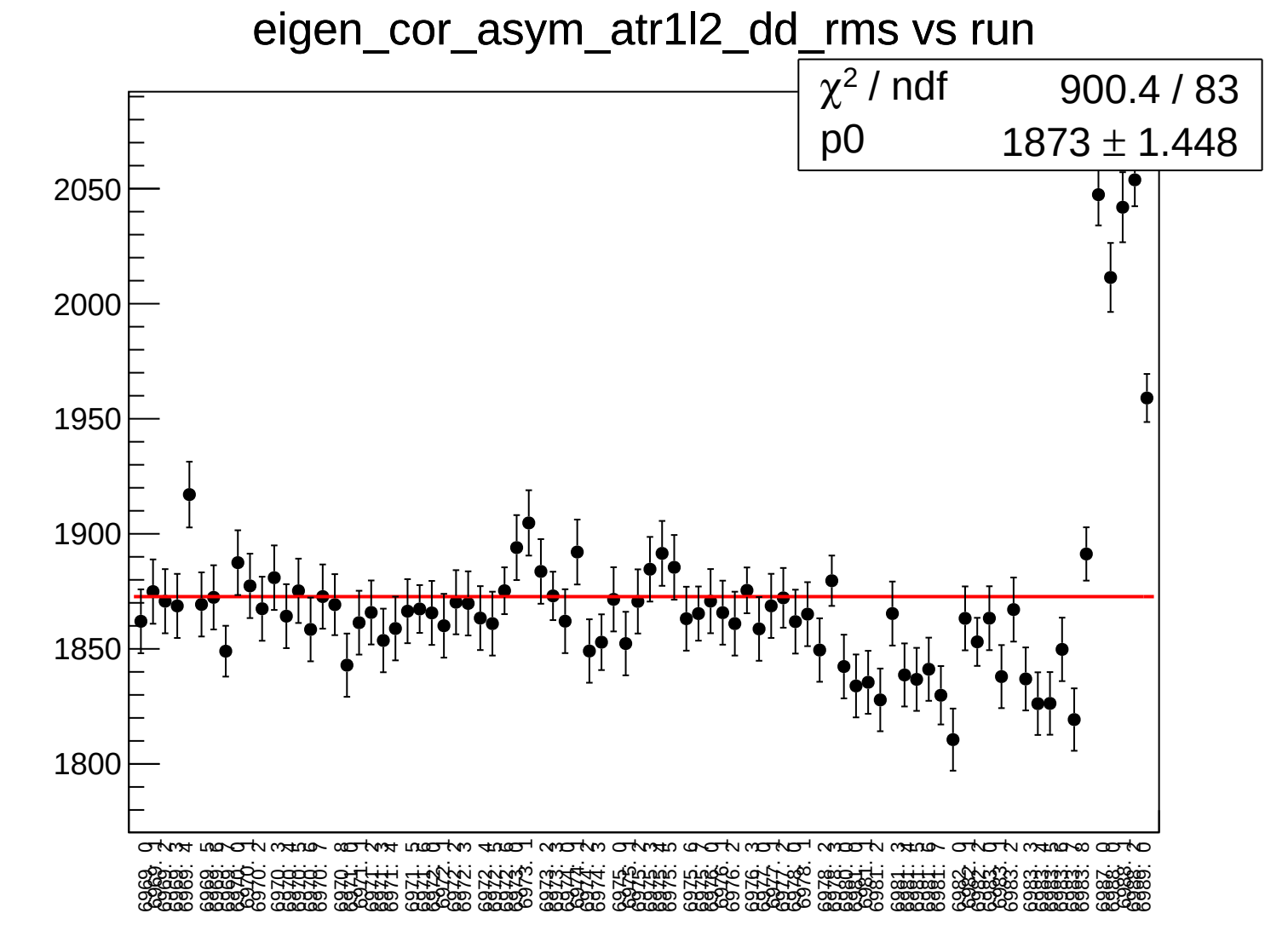

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 107.6 / 83
p0 8841 ± 7146
pull
Entries 84
Mean −36.27
Std Dev 0

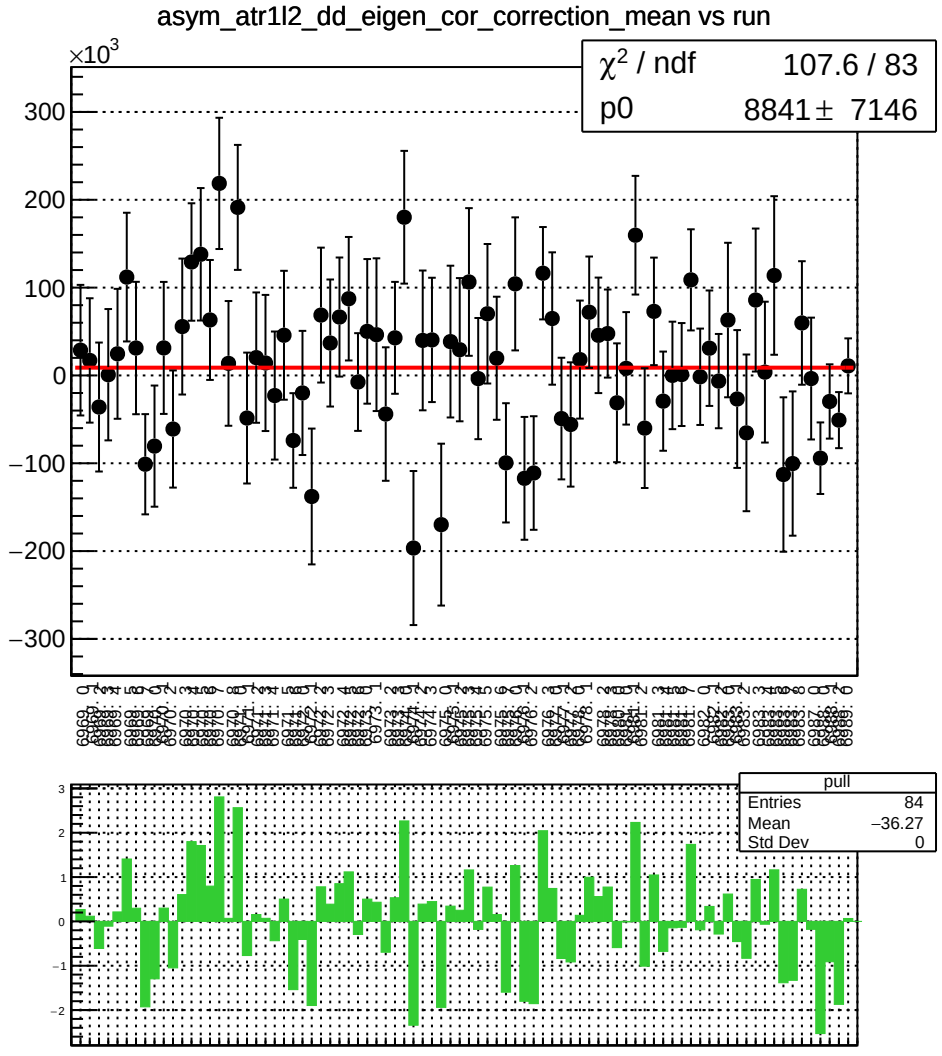

pull1D
Entries 84
Mean 0.05207
Std Dev 1.131

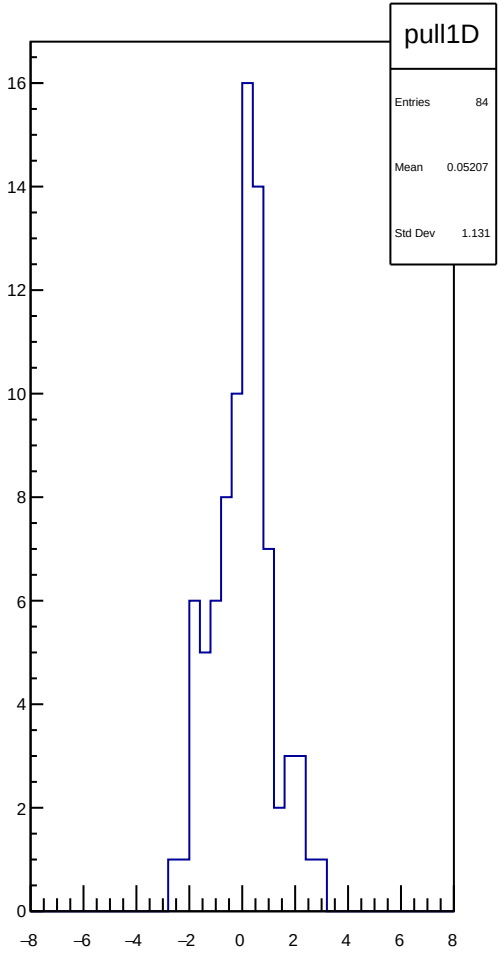

asym_atr1l2_dd_cor_correction_rms vs run
χ^2 / ndf 6.101e+04 / 83
p0 6416 ± 5.053
9000
8000
7000
6000
5000
4000

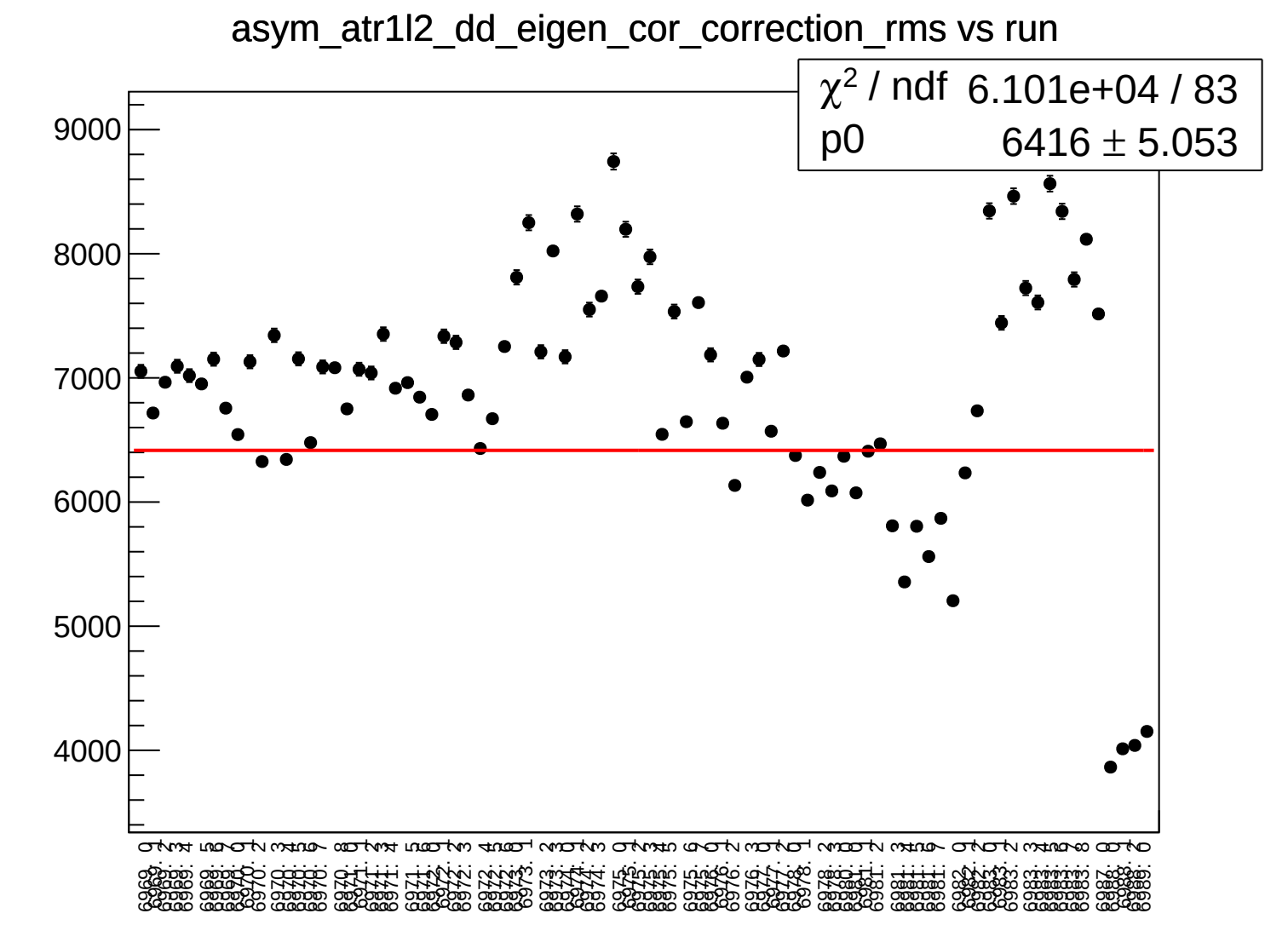

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 101.6 / 83
p0 3891 ± 2048
pull
Entries 84
Mean −268
Std Dev 0

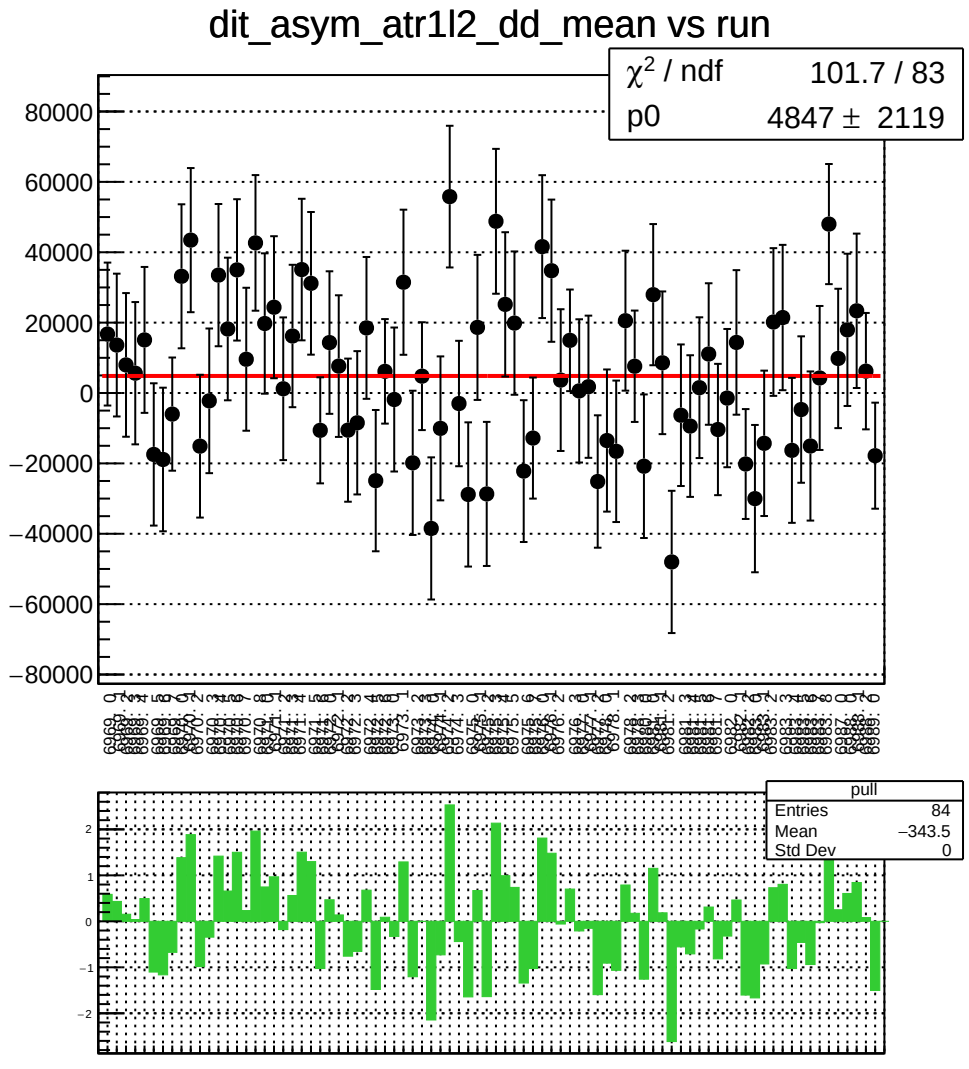

pull1D
Entries 84
Mean 0.01301
Std Dev 1.1

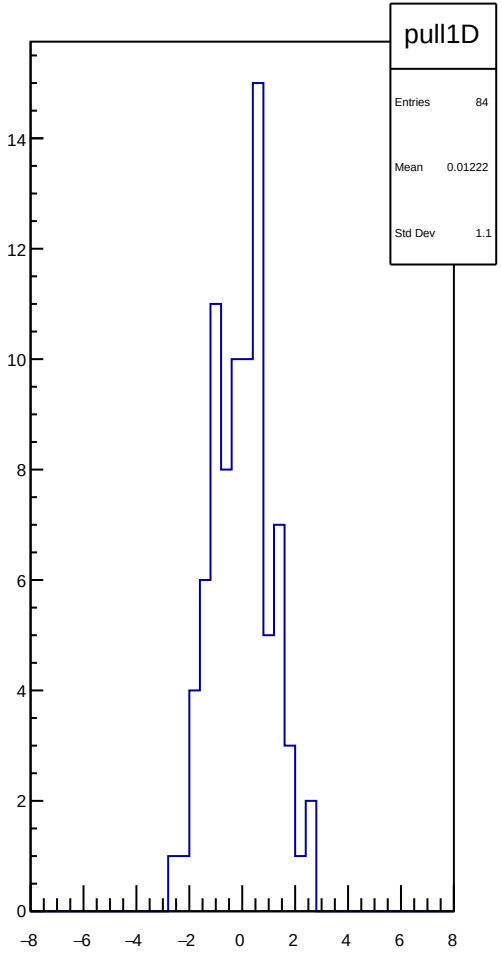

eigen_cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 900.4 / 83
p0 1873 ± 1.448
2050
2000
1950
1900
1850
1800

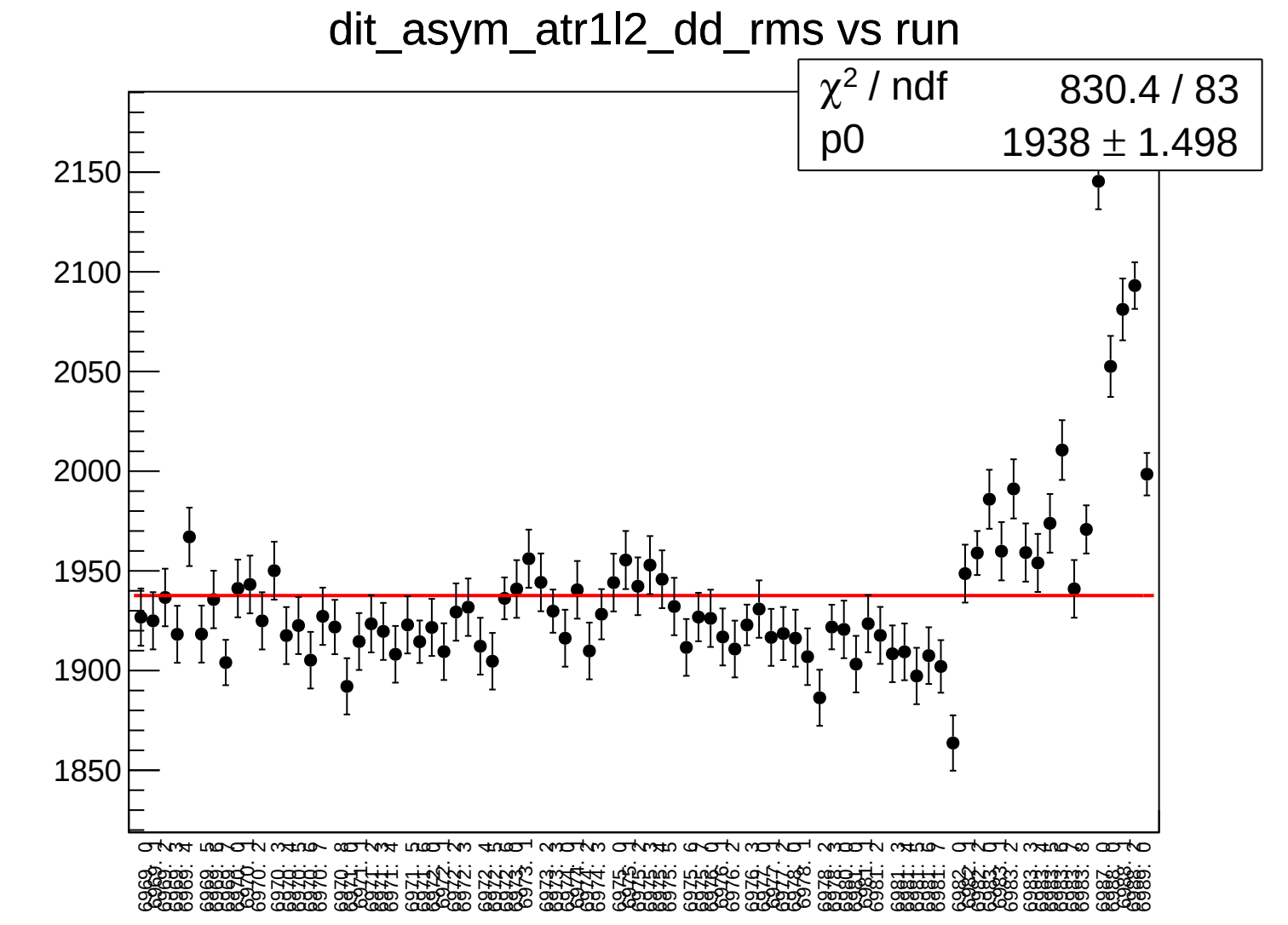

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 107.6 / 83
p0 8841 ± 7146
pull
Entries 84
Mean −36.27
Std Dev 0

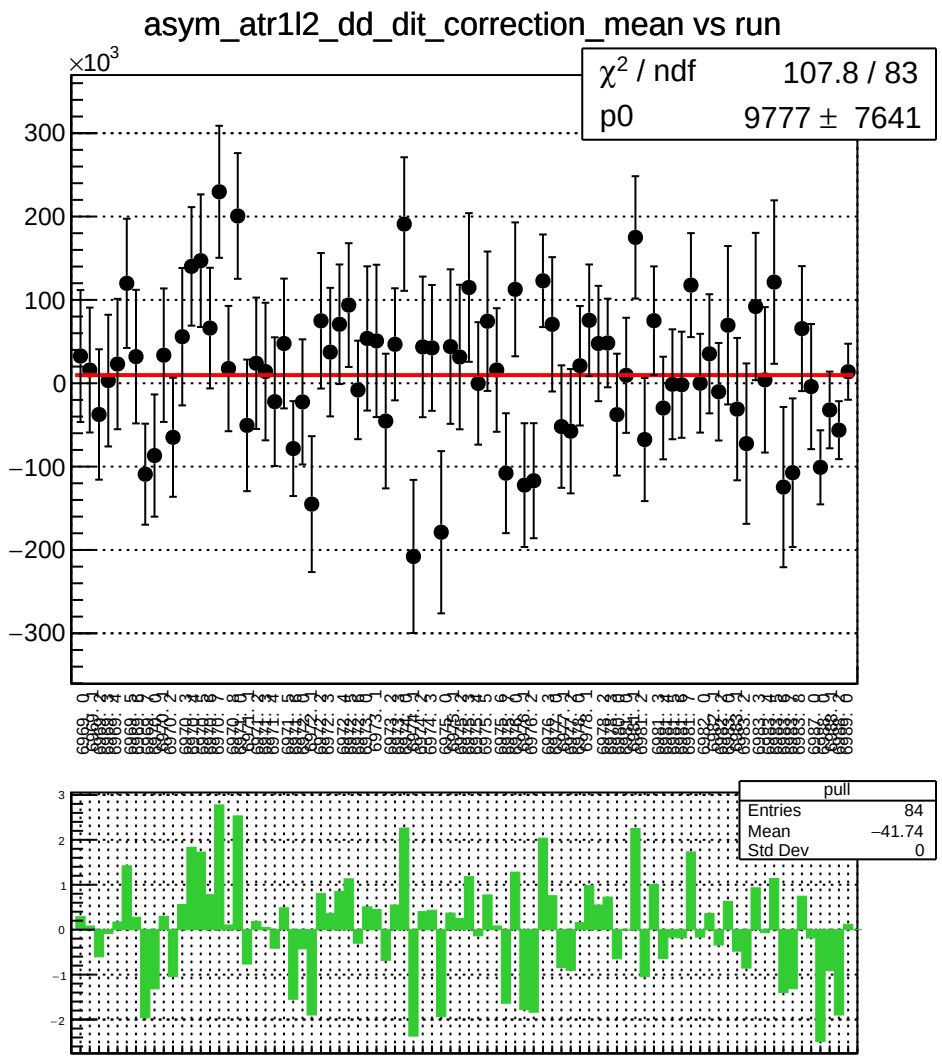

pull1D
Entries 84
Mean 0.05207
Std Dev 1.131

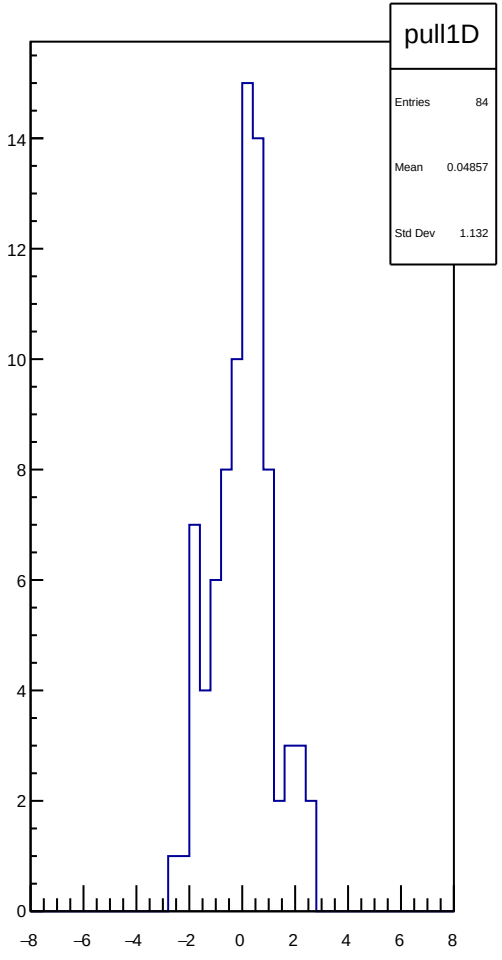

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.101e+04 / 83
p0 6416 ± 5.053
9000
8000
7000
6000
5000
4000

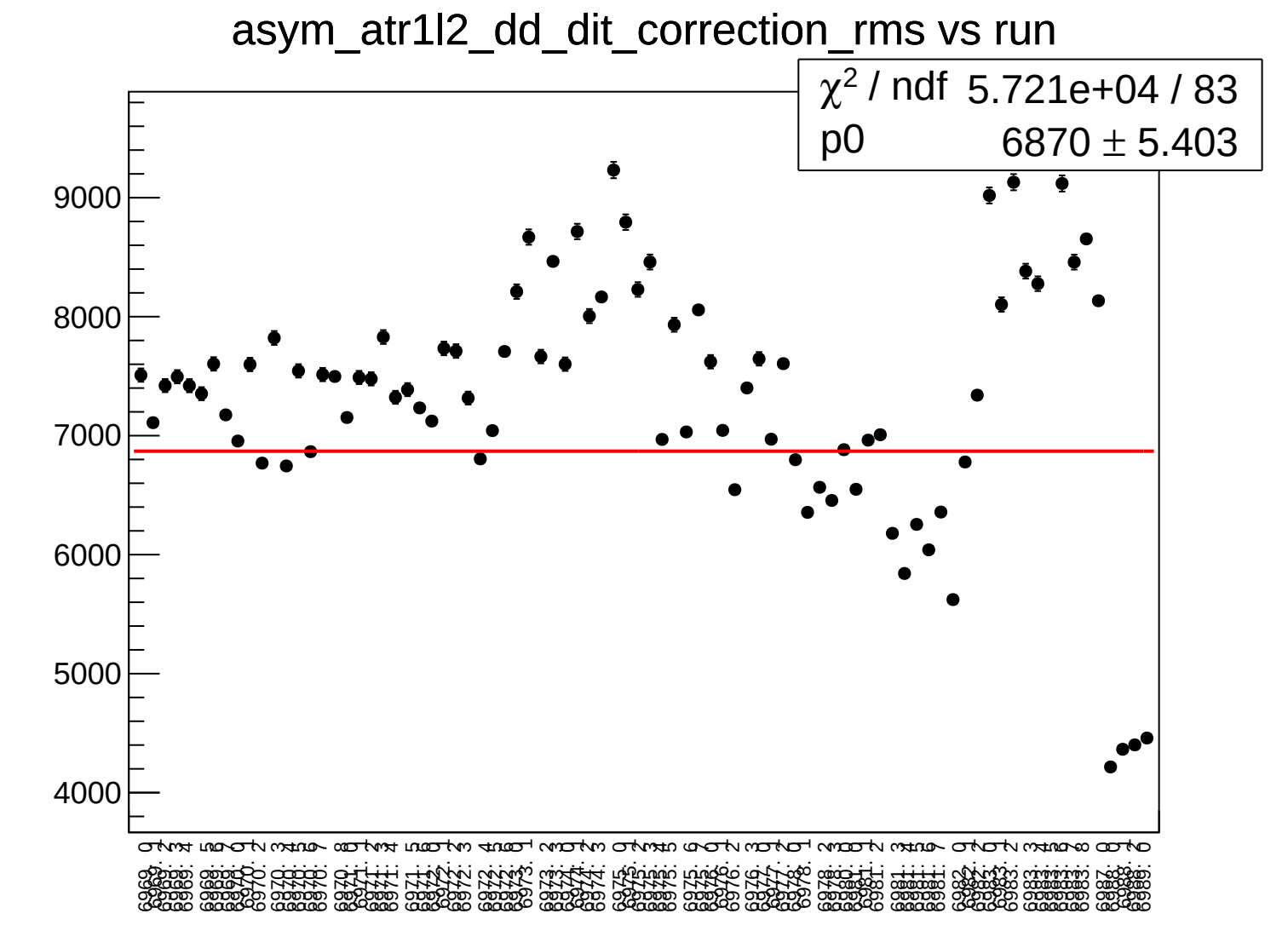

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 101.7 / 83
p0 4847 ± 2119
pull
Entries 84
Mean −343.5
Std Dev 0

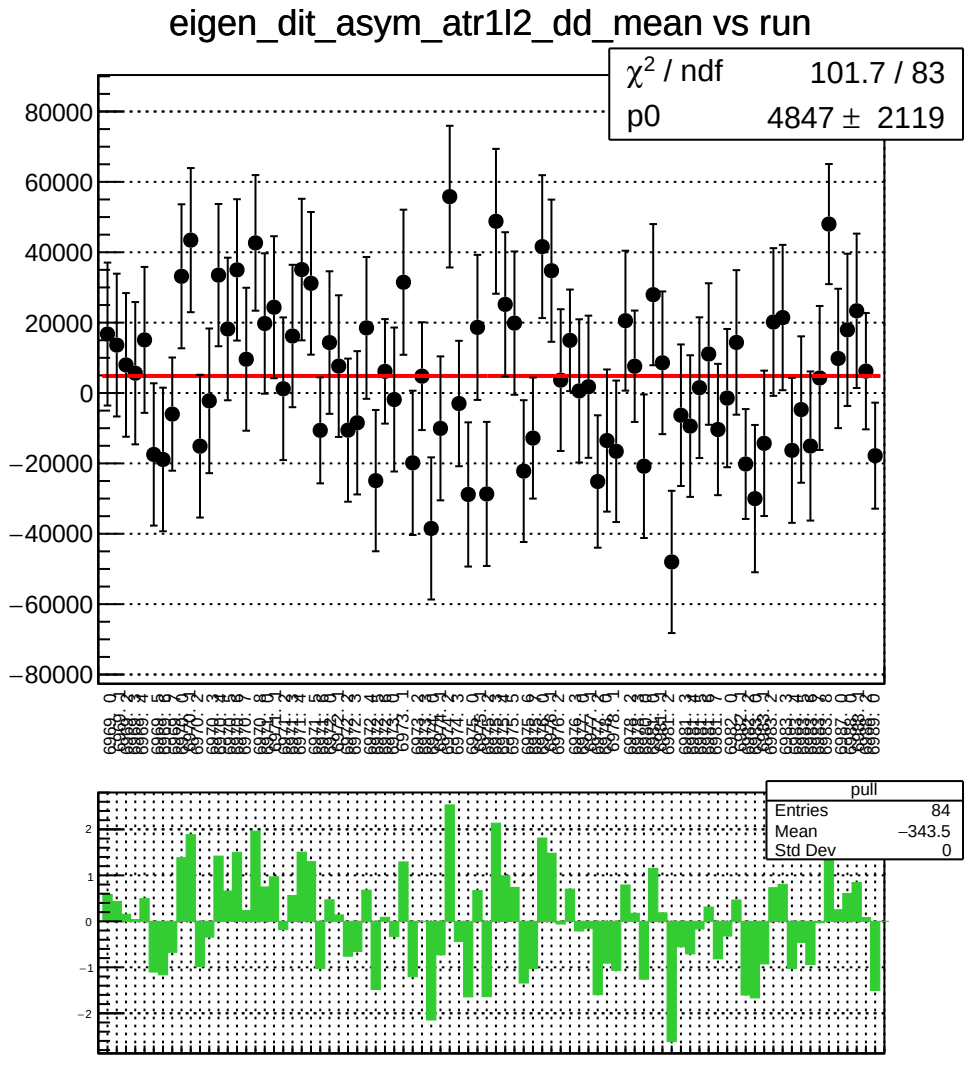

pull1D
Entries 84
Mean 0.01222
Std Dev 1.1

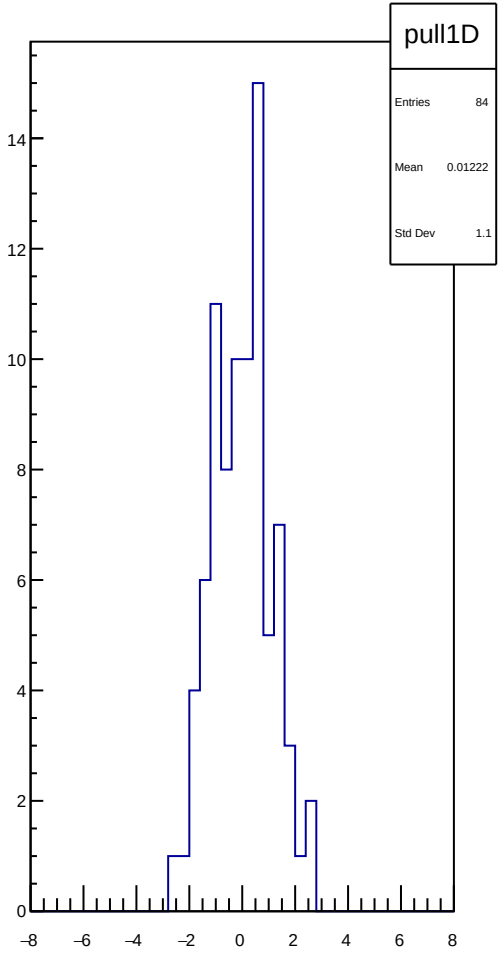

dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 830.4 / 83
p0 1938 ± 1.498
2150
2100
2050
2000
1950
1900
1850

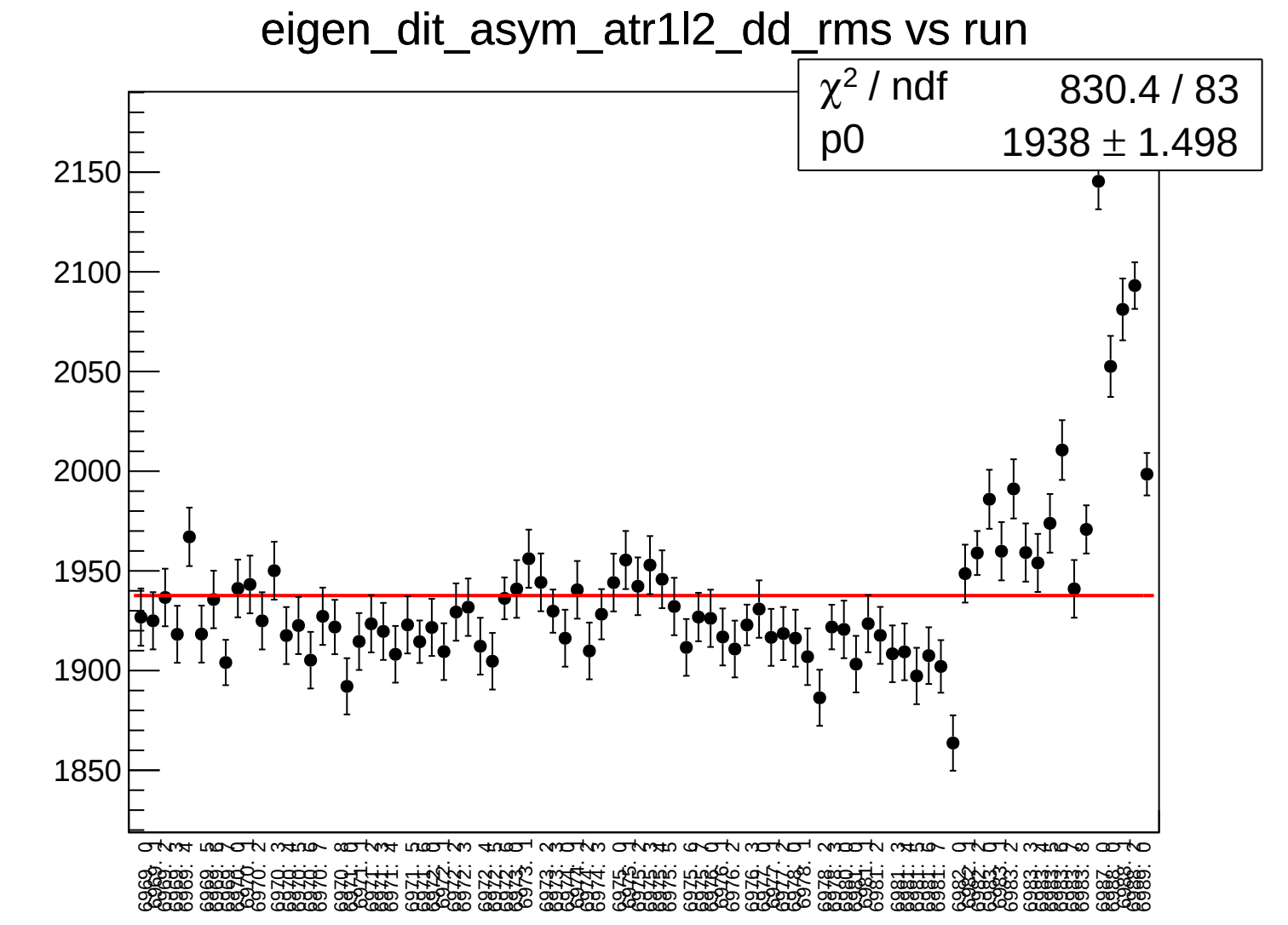

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107.8 / 83
p0 9777 ± 7641
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −41.74
Std Dev 0
3
2
1
0
−1
−2

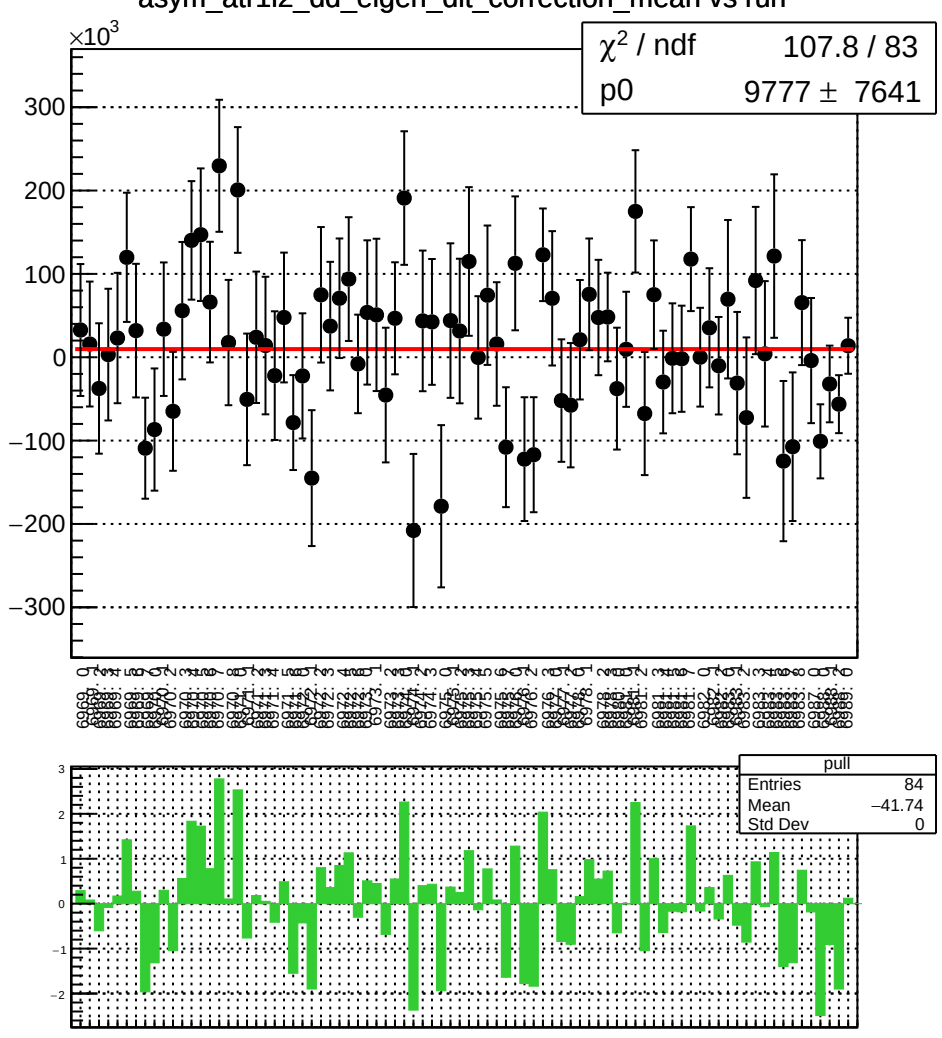

pull1D
Entries 84
Mean 0.04857
Std Dev 1.132
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

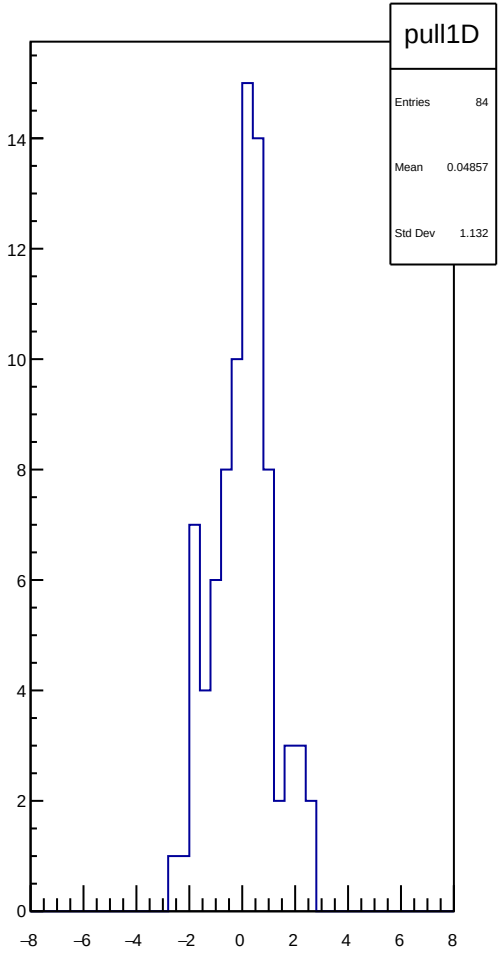

asym_atr1l2_dd_dit_correction_rms vs run
χ^2 / ndf 5.721e+04 / 83
p0 6870 ± 5.403
9000
8000
7000
6000
5000
4000

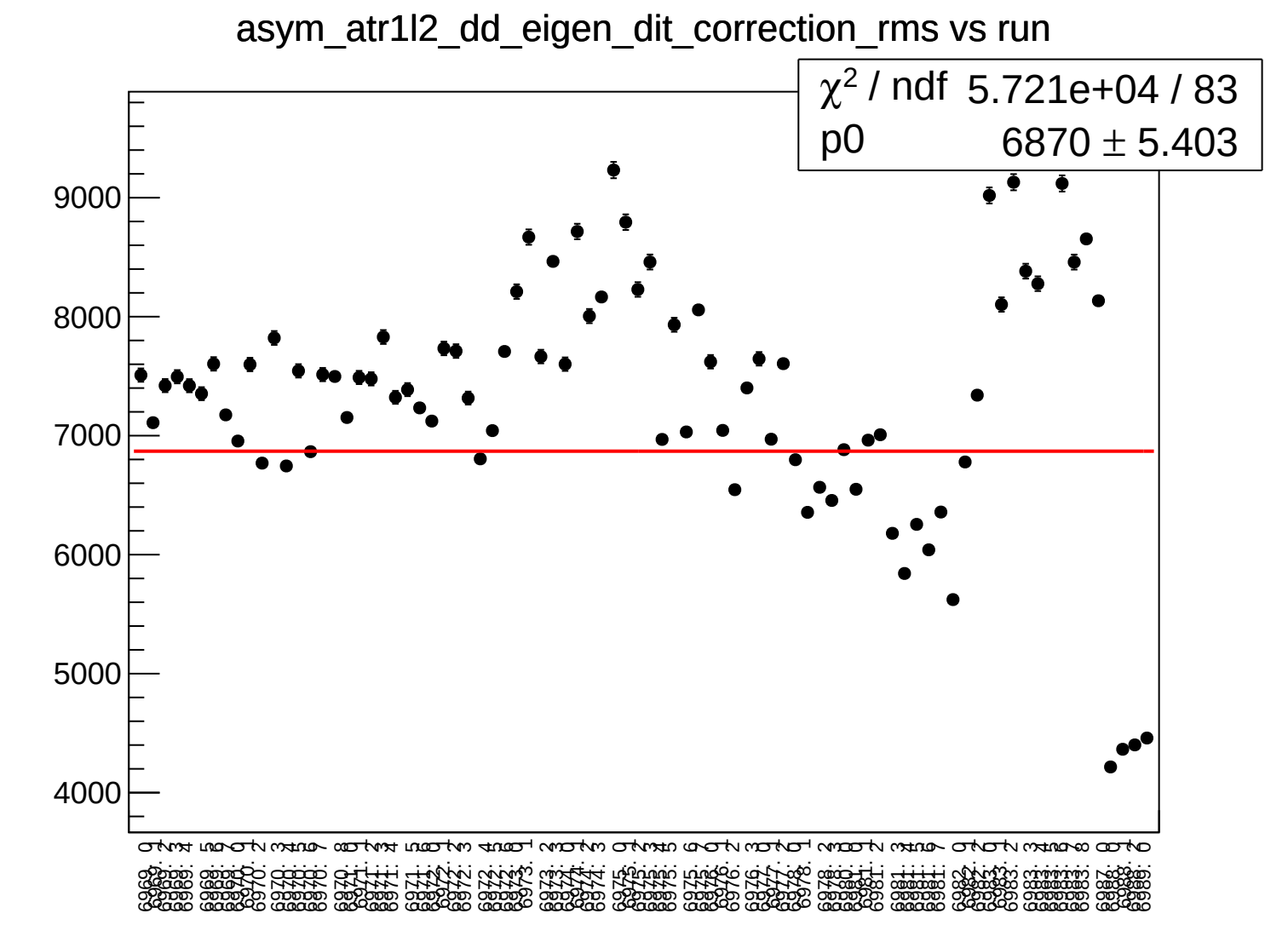

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 101.7 / 83
p0 4847 ± 2119
pull
Entries 84
Mean −343.5
Std Dev 0

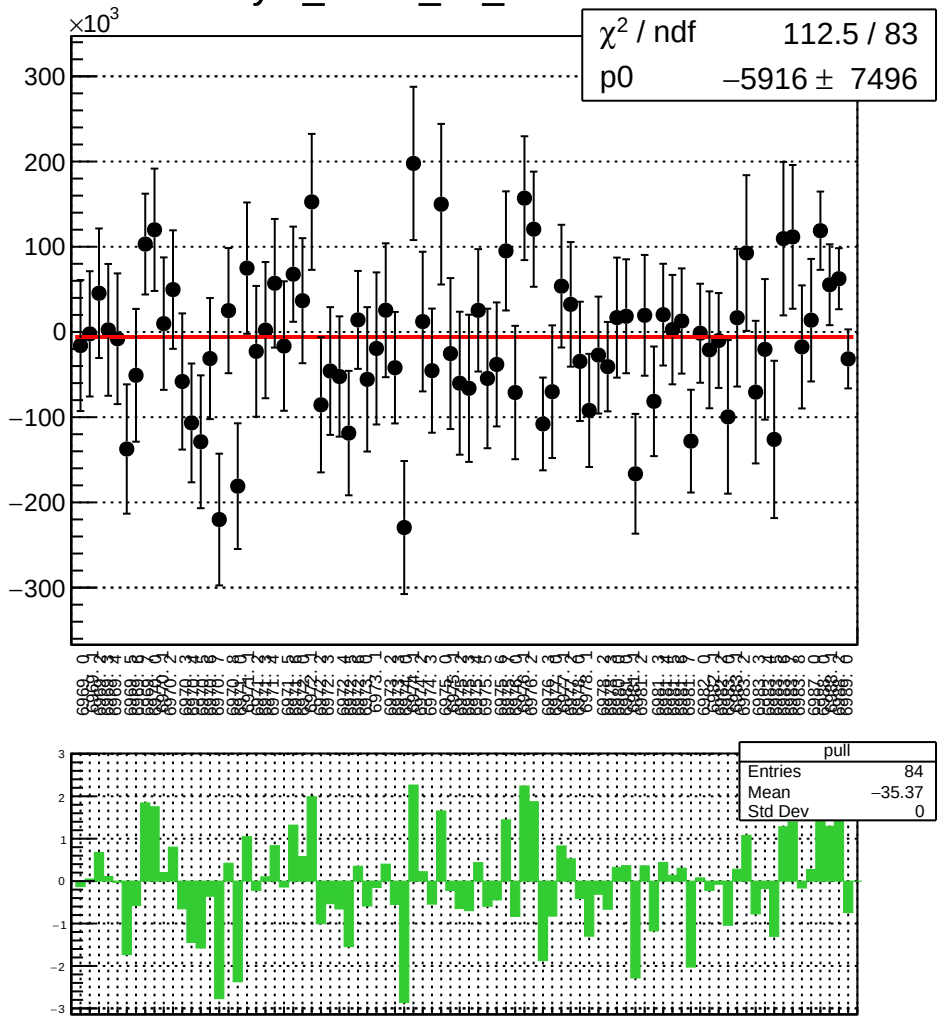

pull1D
Entries 84
Mean 0.01222
Std Dev 1.1

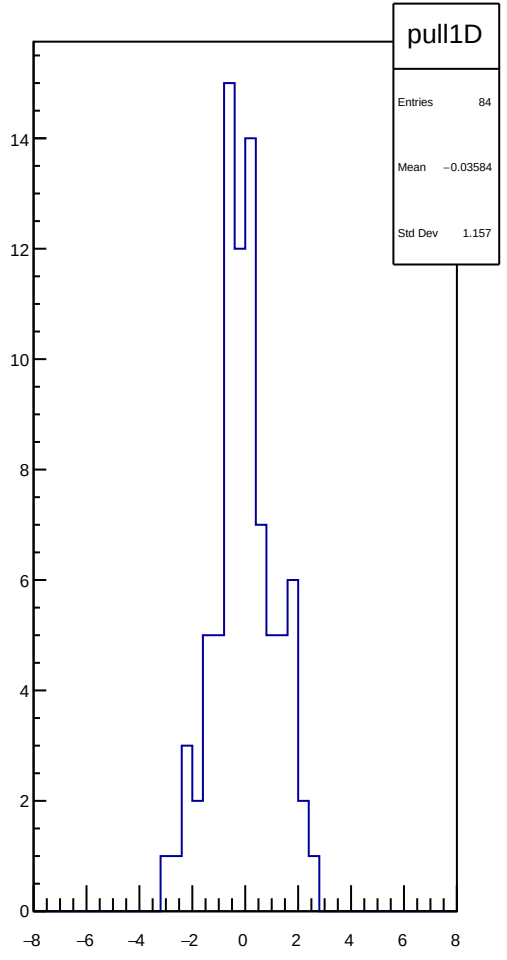

eigen_dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 830.4 / 83
p0 1938 ± 1.498
2150
2100
2050
2000
1950
1900
1850

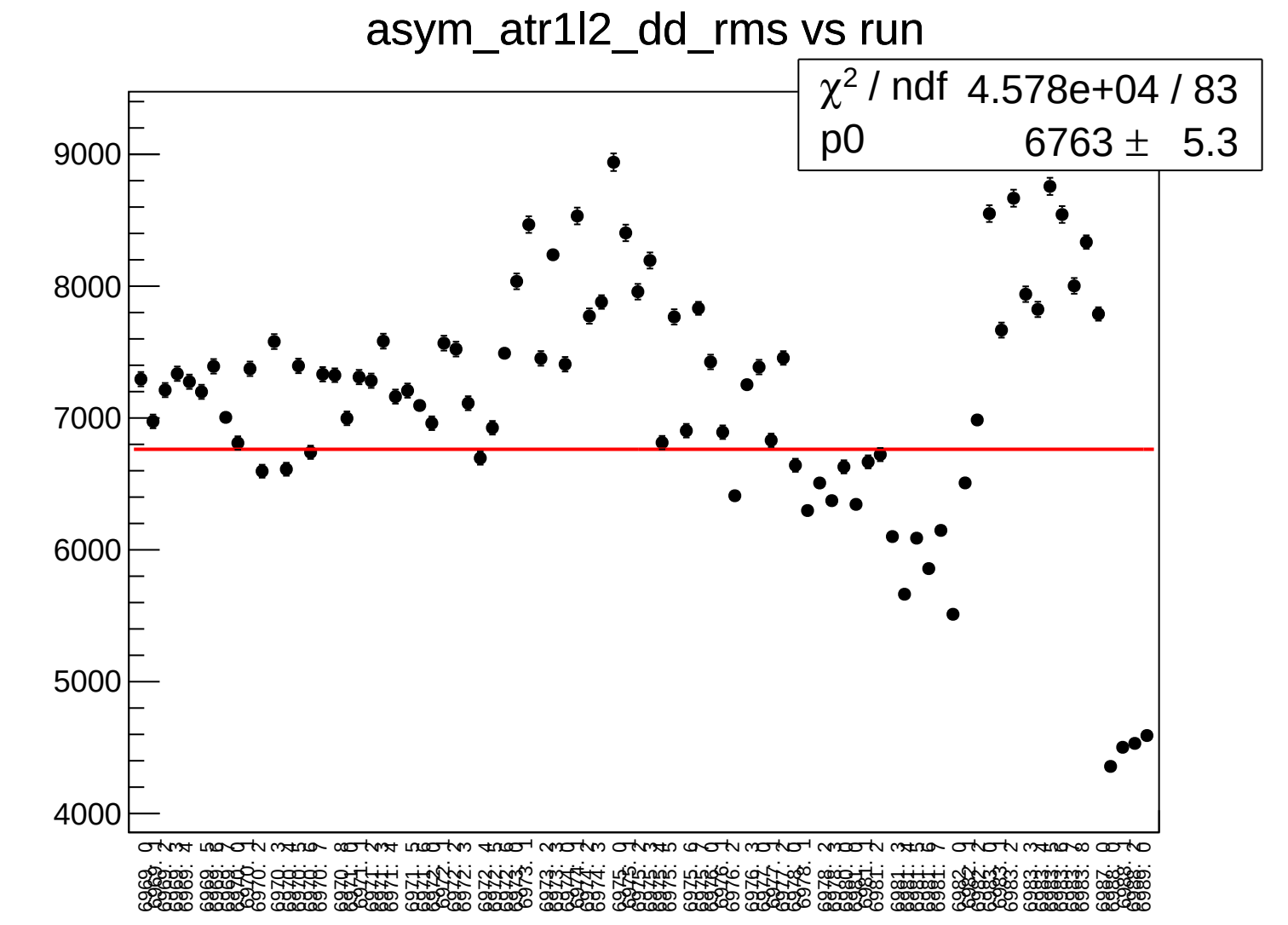

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.8 / 83
p0 9777 ± 7641
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −41.74
Std Dev 0
3
2
1
0
−1
−2

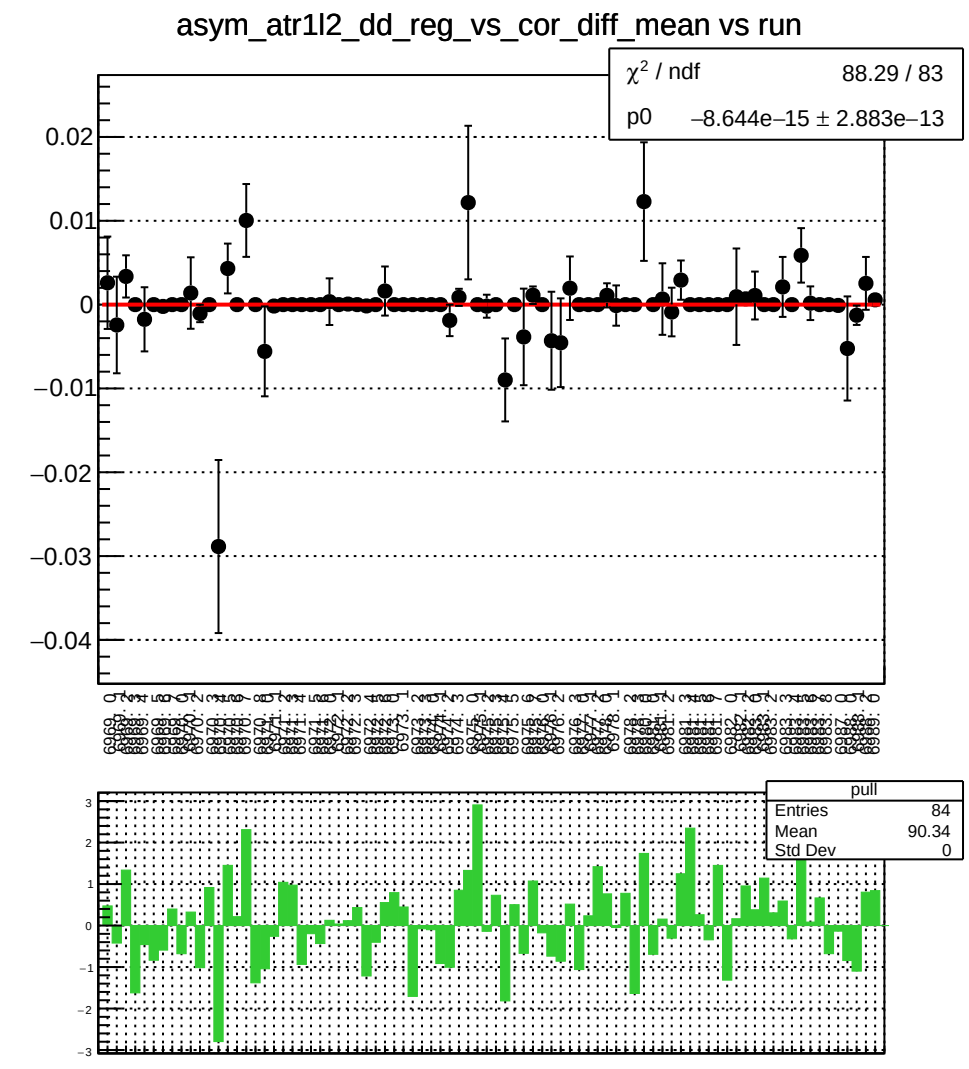

pull1D
Entries 84
Mean 0.04857
Std Dev 1.132
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

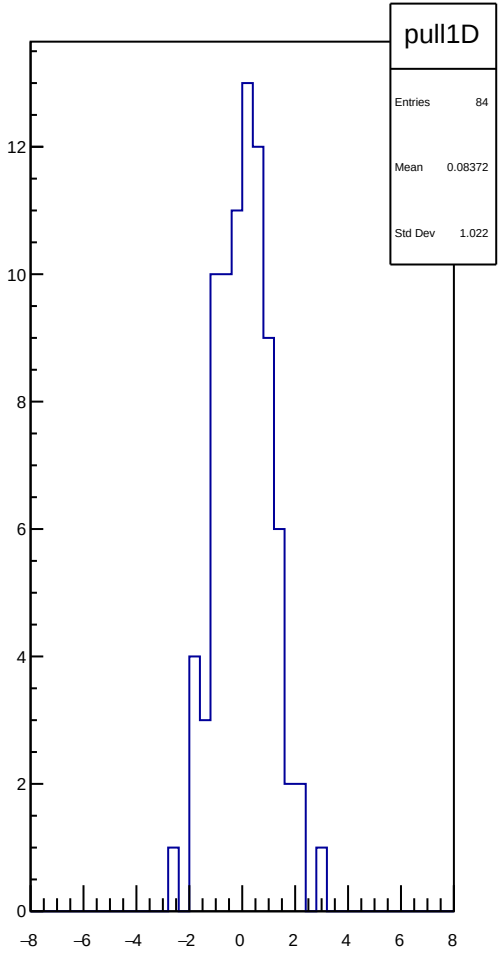

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.721e+04 / 83
p0 6870 ± 5.403
9000
8000
7000
6000
5000
4000

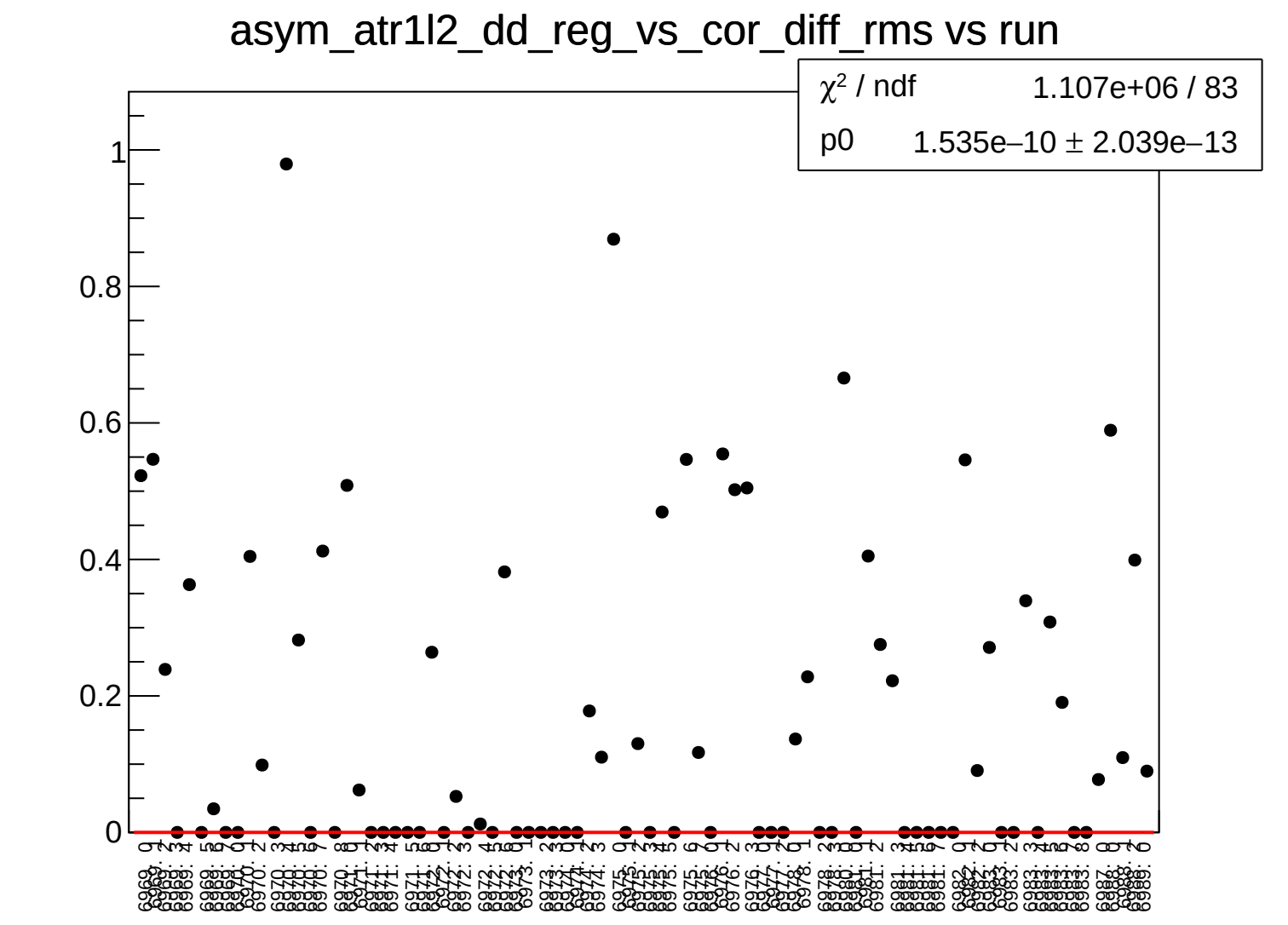

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 112.5 / 83
p0 −5916 ± 7496
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −35.37
Std Dev 0
3
2
1
0
−1
−2
−3

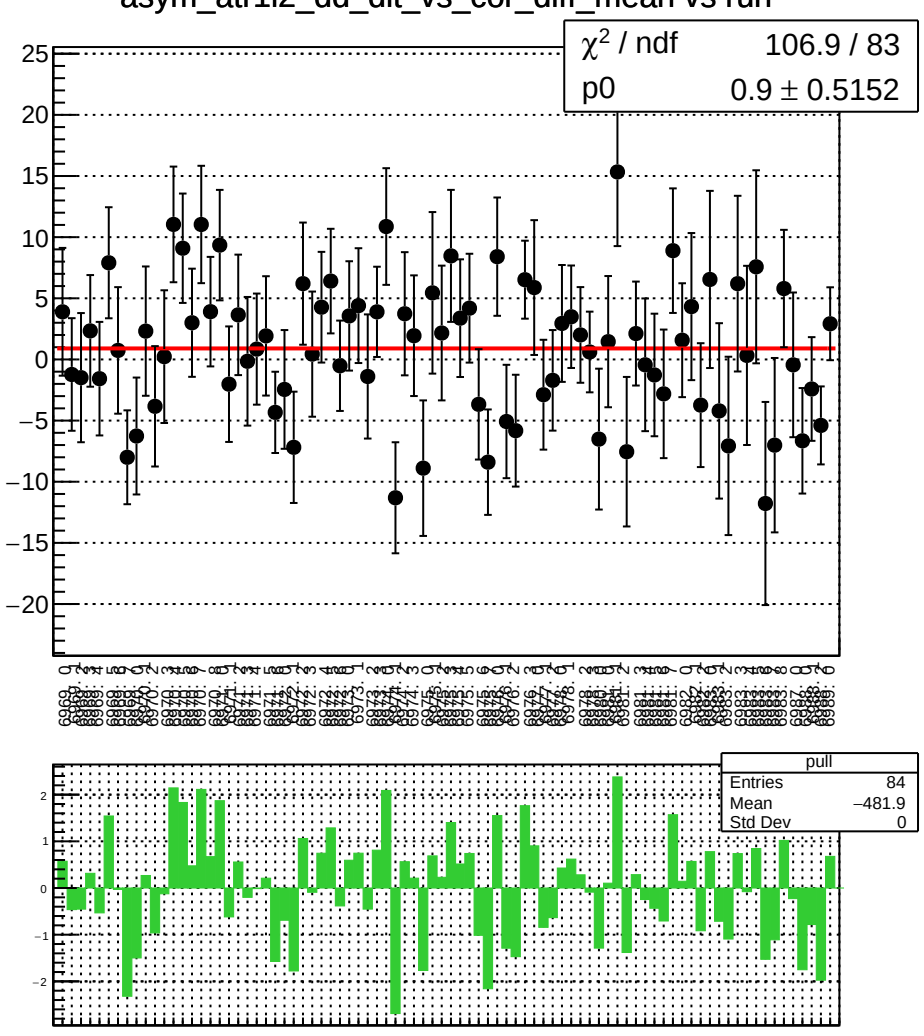

pull1D
Entries 84
Mean −0.03584
Std Dev 1.157
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

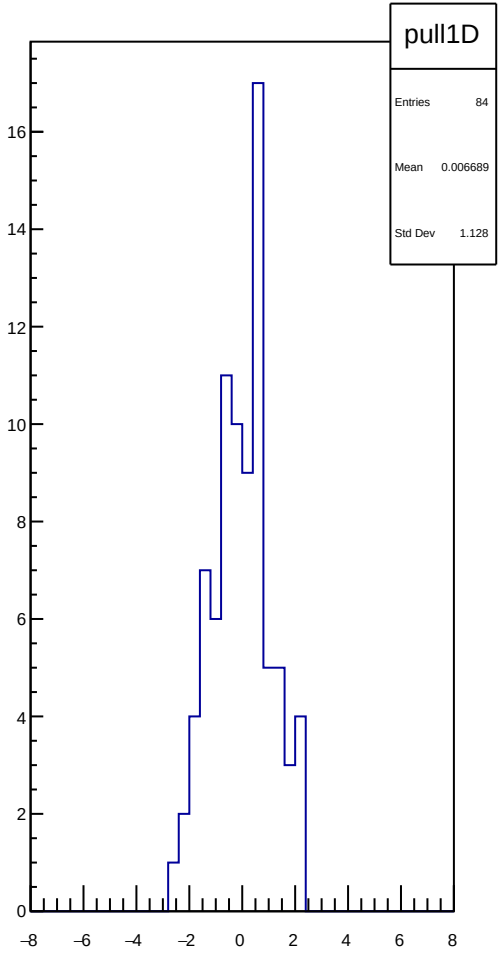

asym_atr1l2_dd_rms vs run
χ² / ndf 4.578e+04 / 83
p0 6763 ± 5.3
9000
8000
7000
6000
5000
4000

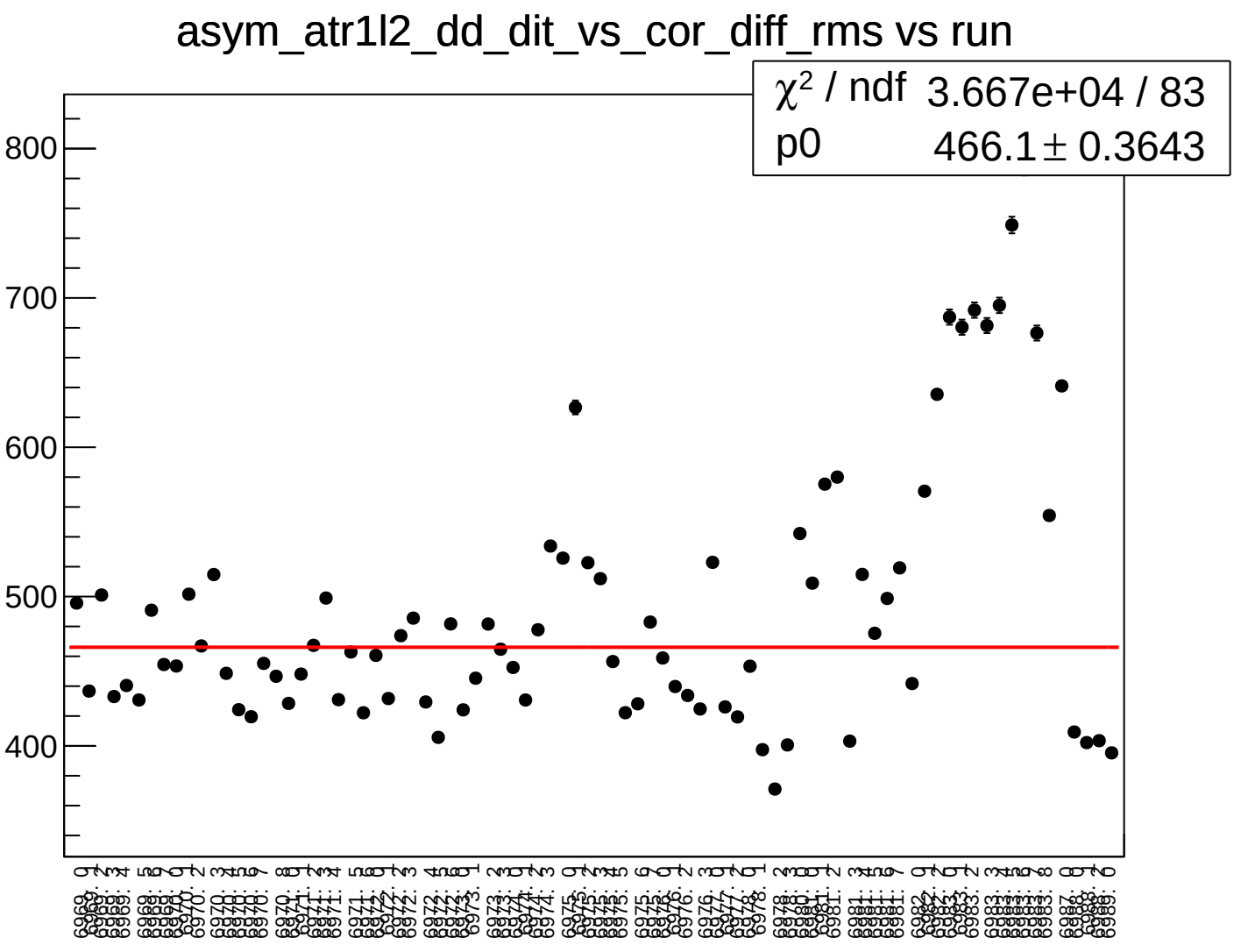

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.29 / 83
p0 −8.644e−15 ± 2.883e−13
pull
Entries 84
Mean 90.34
Std Dev 0

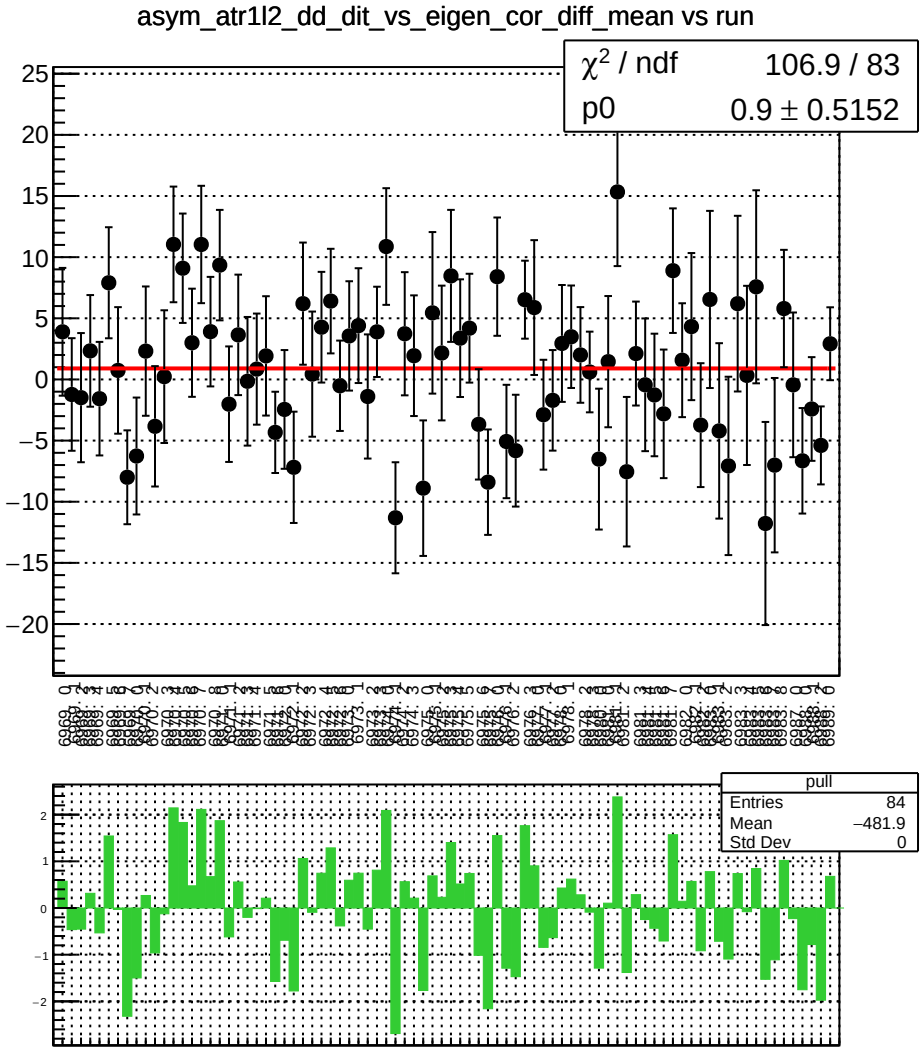

pull1D
Entries 84
Mean 0.08372
Std Dev 1.022

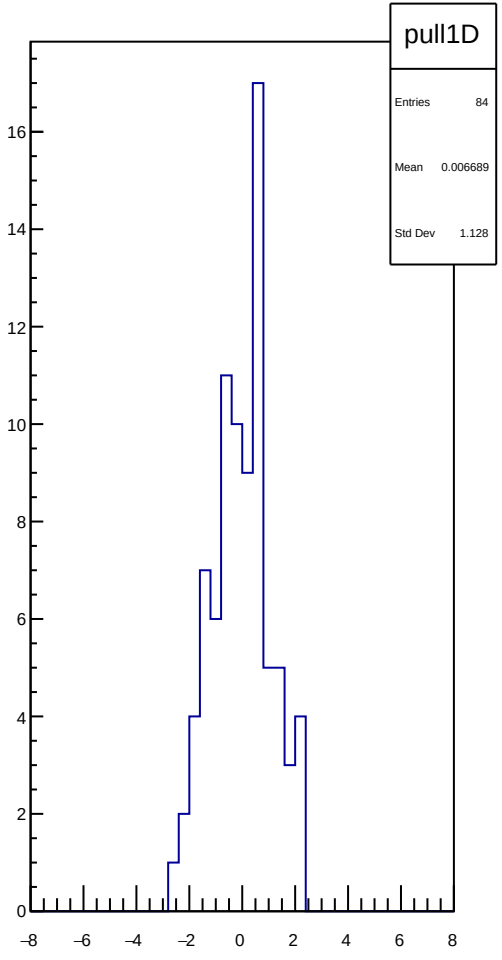

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.107e+06 / 83
p0 1.535e−10 ± 2.039e−13
1
0.8
0.6
0.4
0.2
0

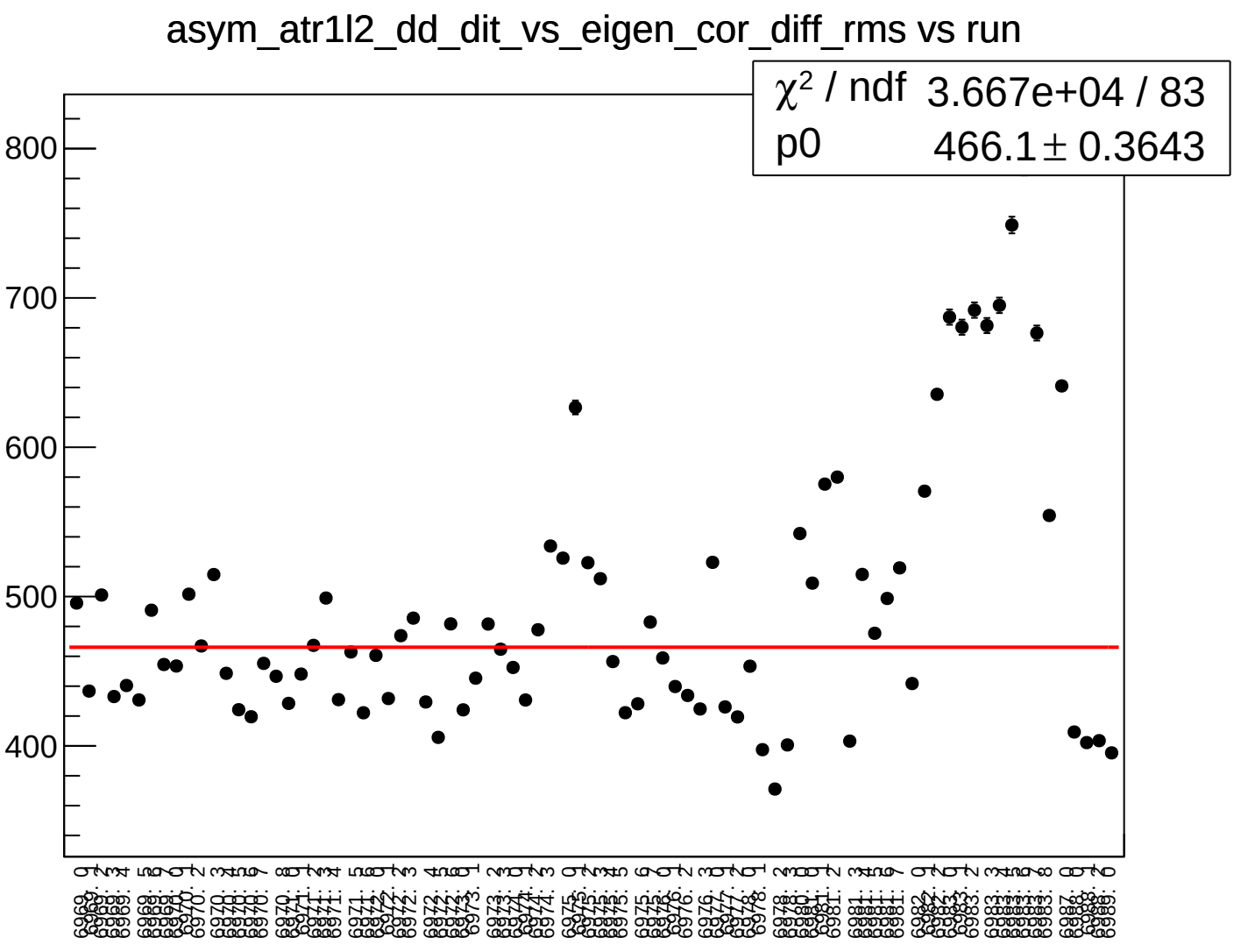

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 83
p0 0.9 ± 0.5152
pull
Entries 84
Mean −481.9
Std Dev 0

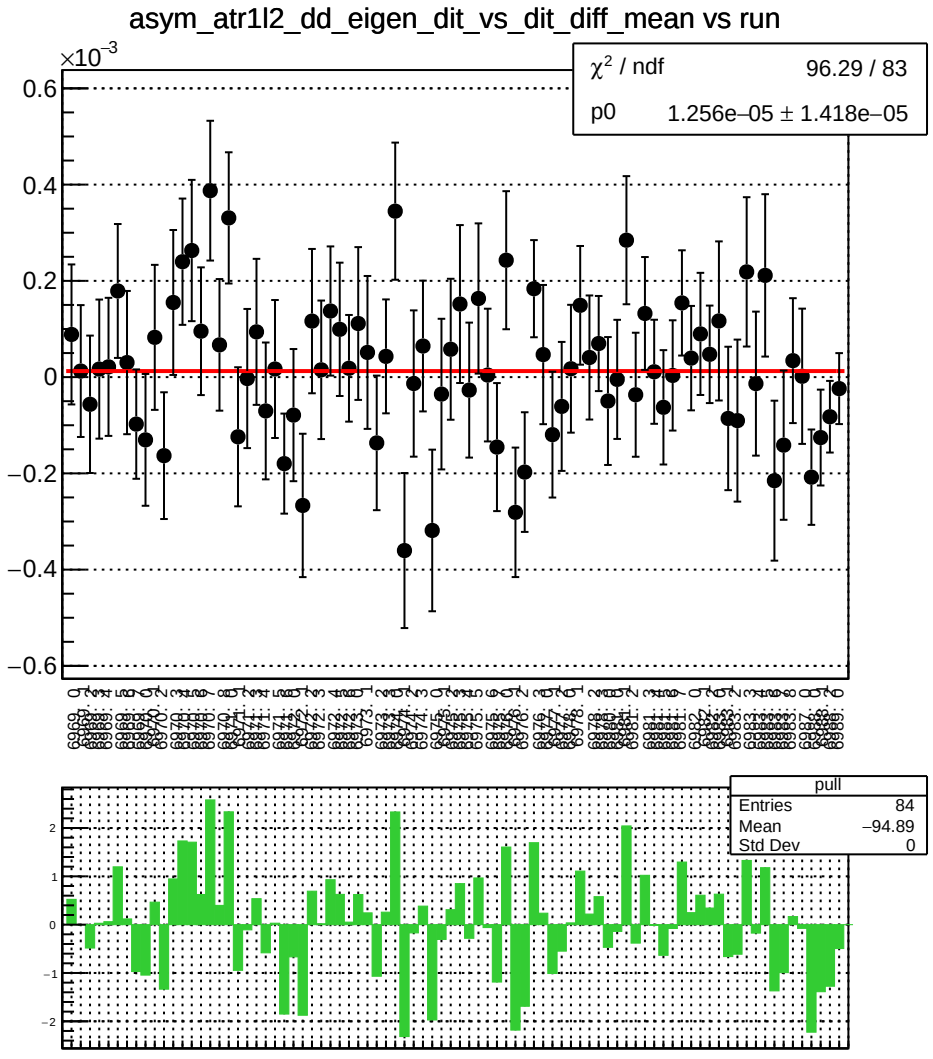

pull1D
Entries 84
Mean 0.006689
Std Dev 1.128

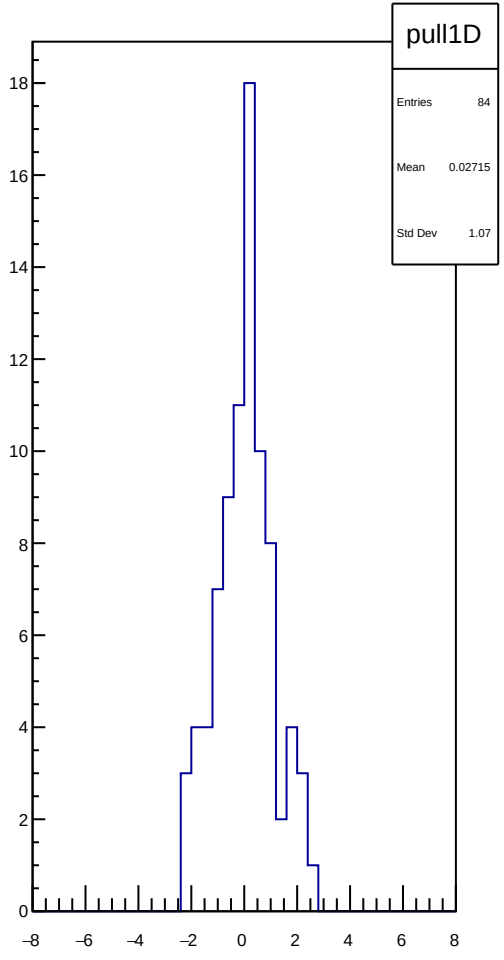

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.667e+04 / 83
p0 466.1 ± 0.3643
800
700
600
500
400

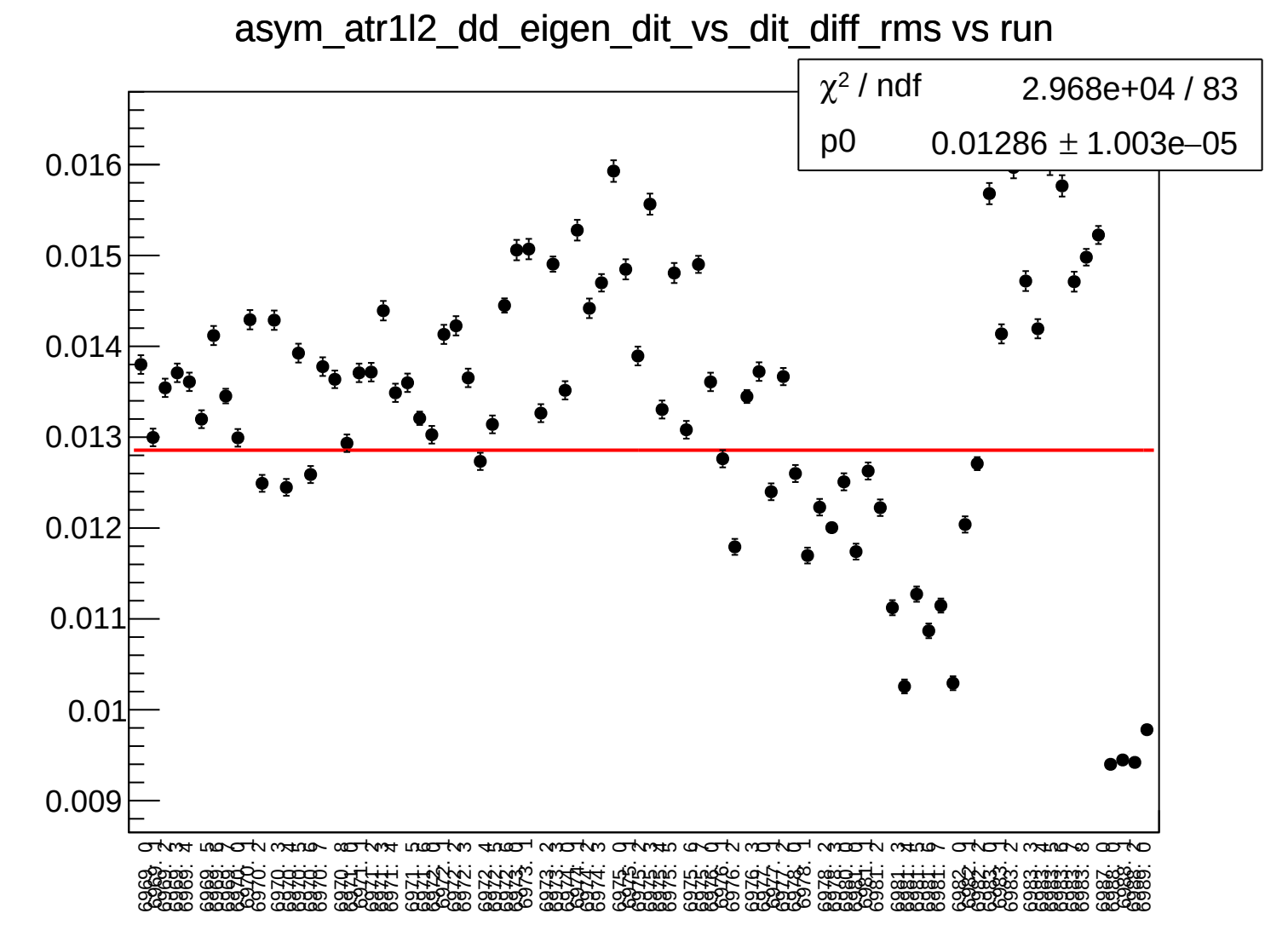

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.9 / 83
p0 0.9 ± 0.5152
pull
Entries 84
Mean −481.9
Std Dev 0

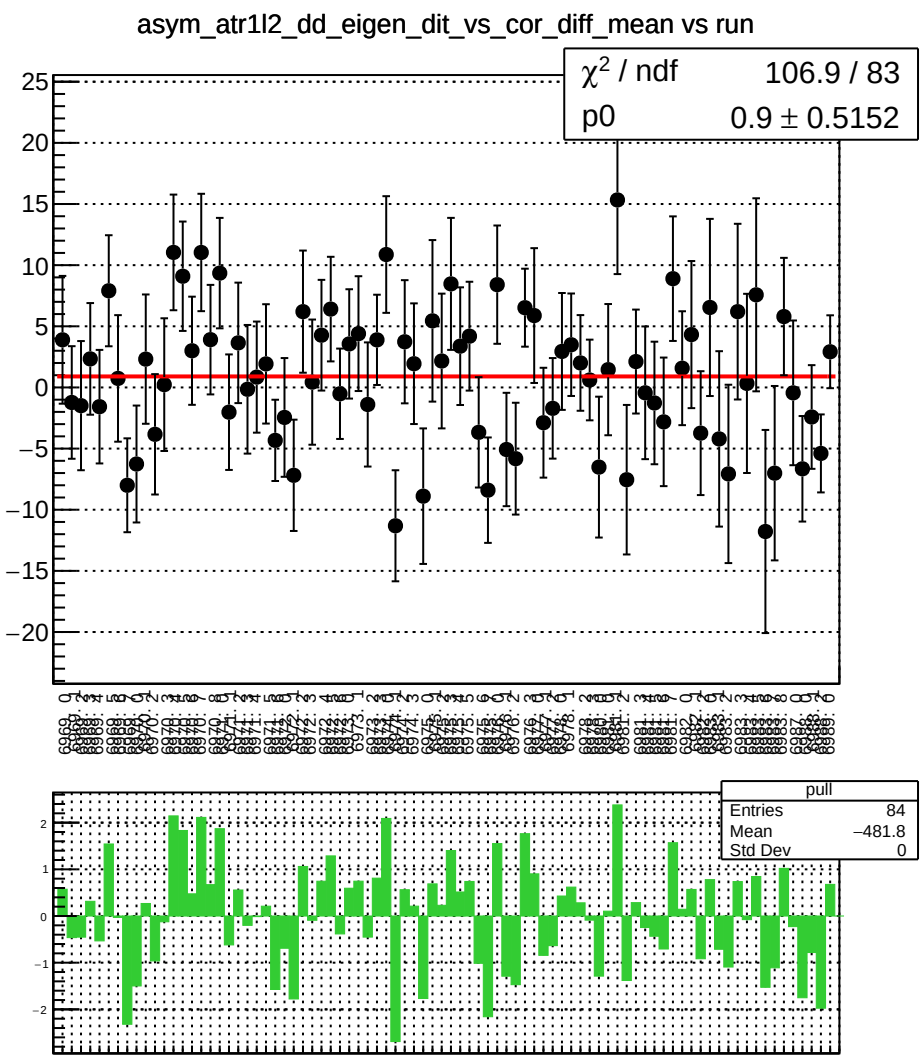

pull1D
Entries 84
Mean 0.006689
Std Dev 1.128

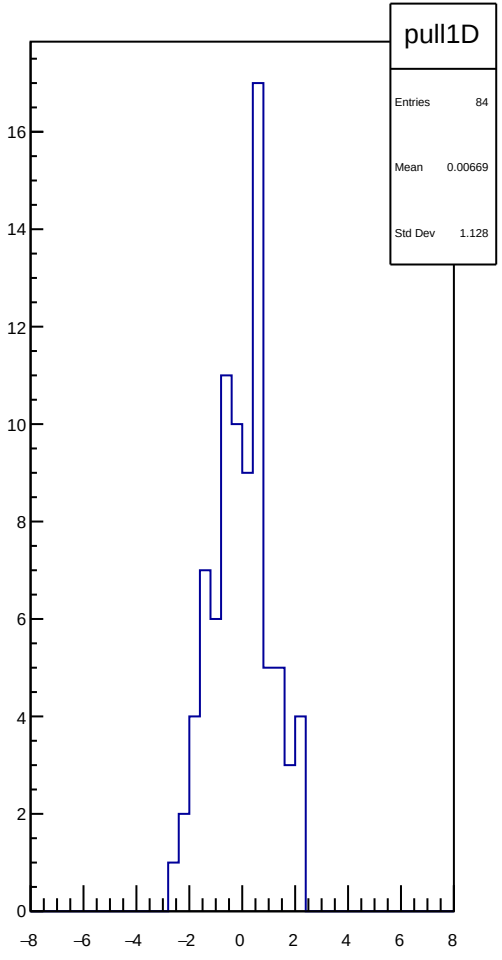

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.667e+04 / 83
p0 466.1 ± 0.3643
800
700
600
500
400

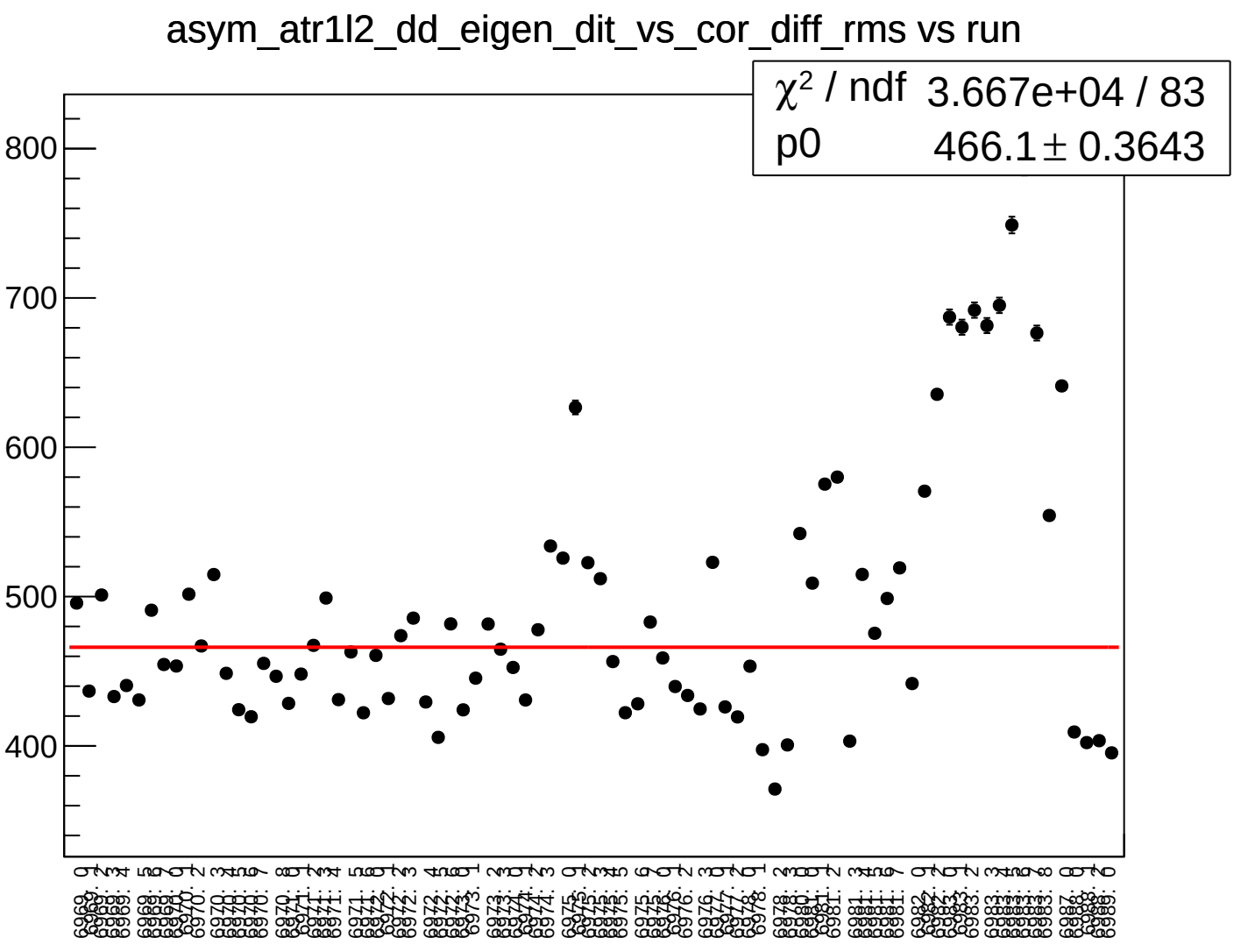

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.29 / 83
p0 1.256e−05 ± 1.418e−05
pull
Entries 84
Mean −94.89
Std Dev 0

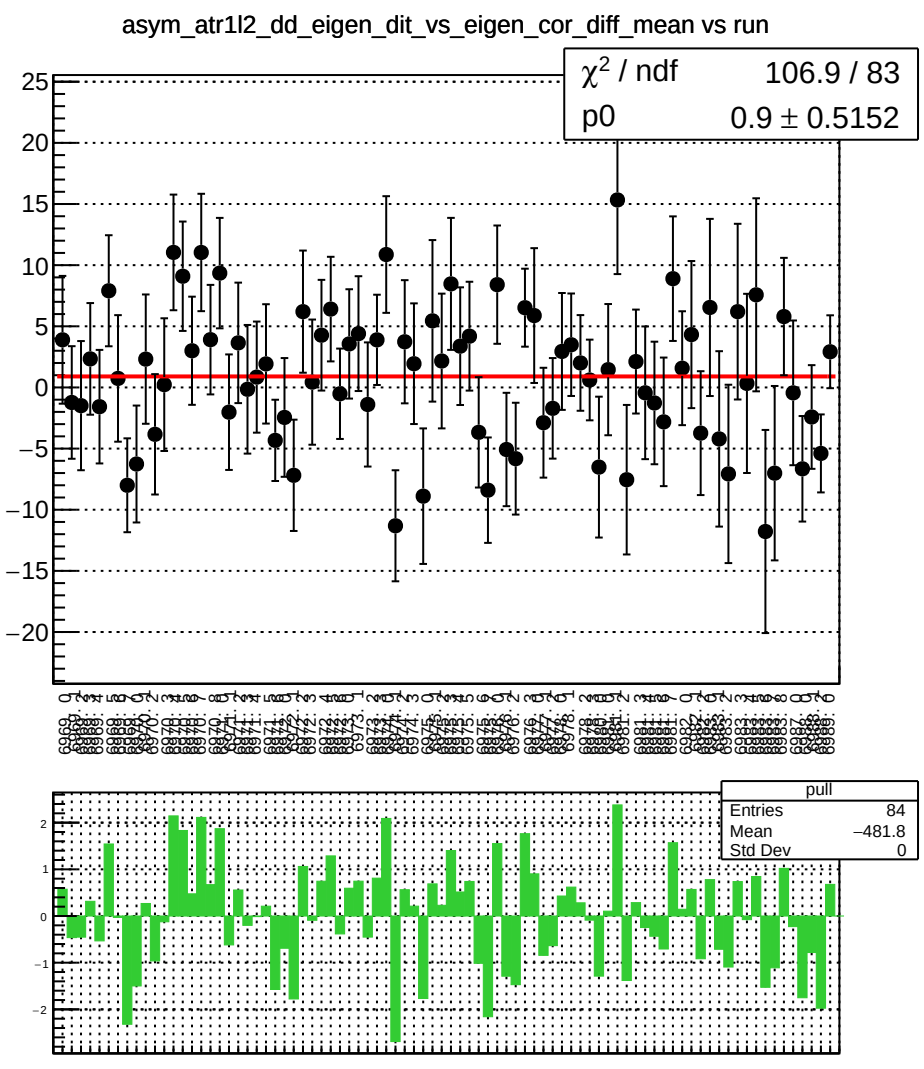

pull1D
Entries 84
Mean 0.02715
Std Dev 1.07

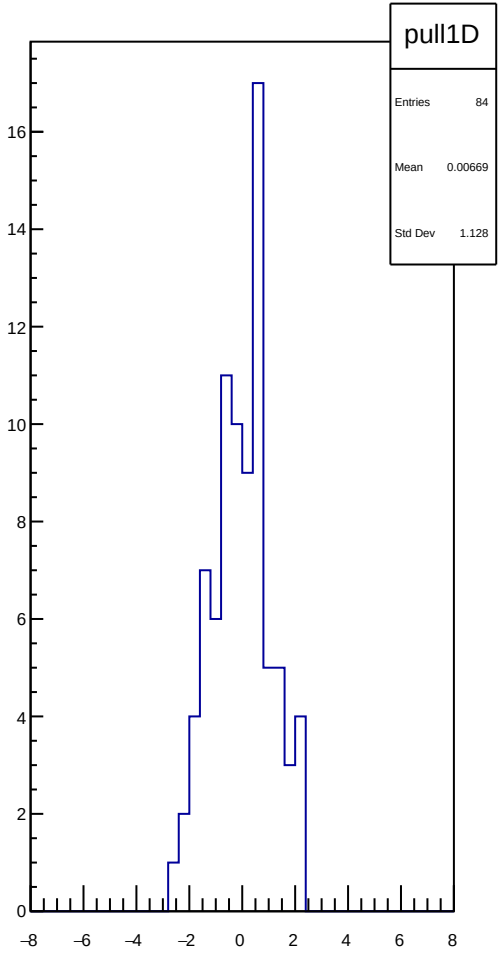

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.968e+04 / 83
p0 0.01286 ± 1.003e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

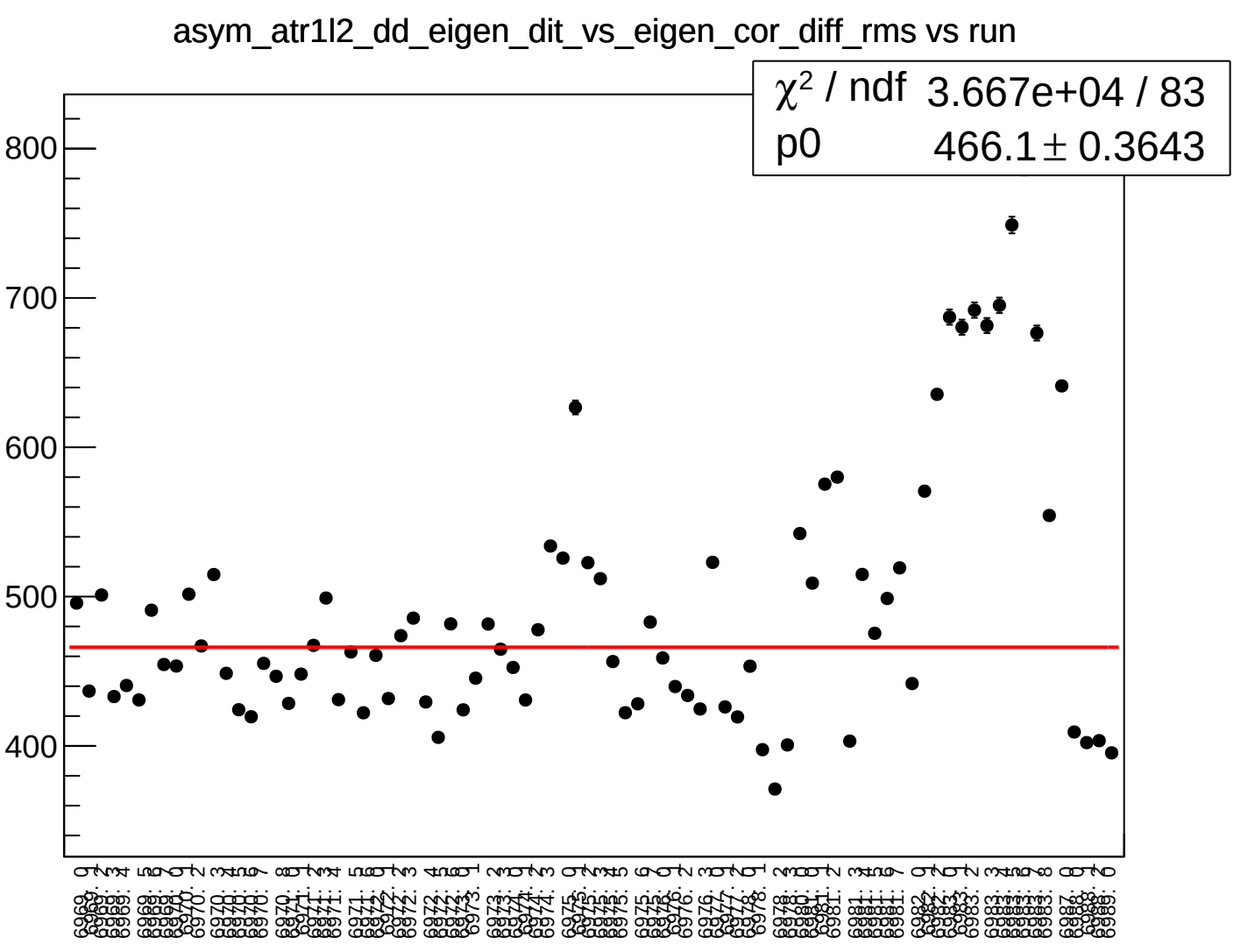

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 83
p0 0.9 ± 0.5152
pull
Entries 84
Mean −481.8
Std Dev 0

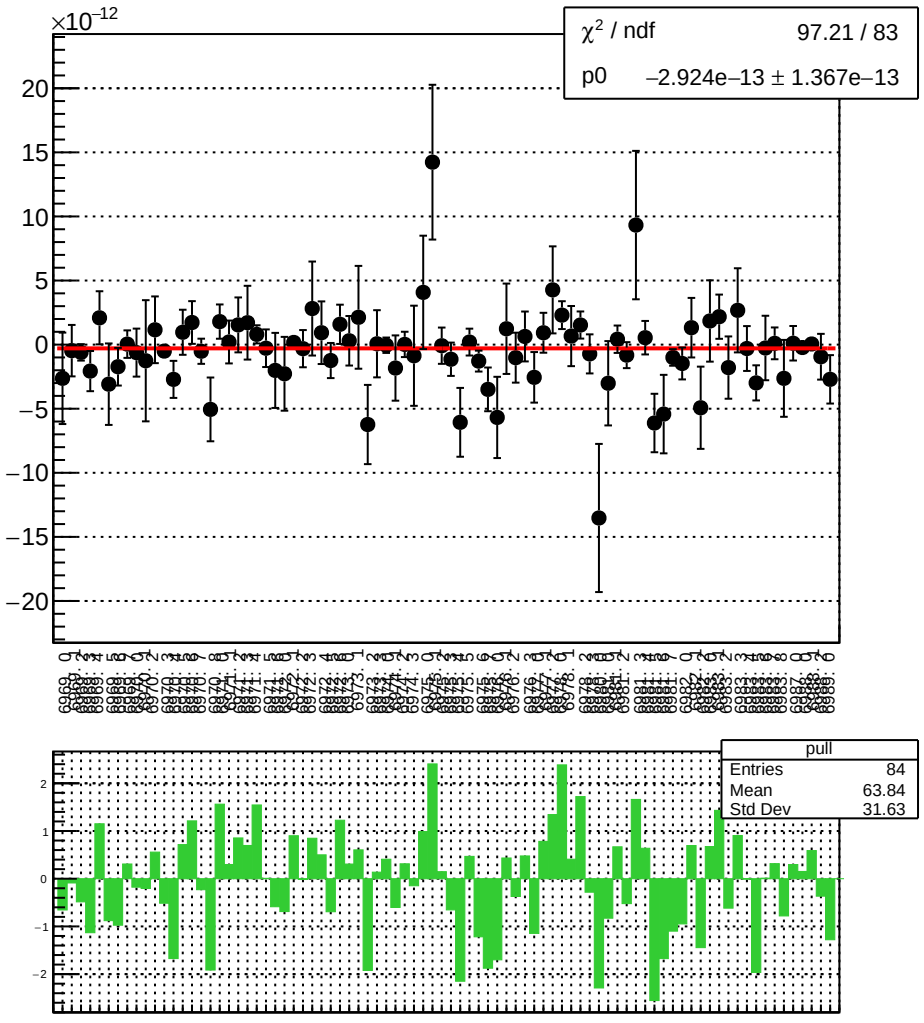

pull1D
Entries 84
Mean 0.00669
Std Dev 1.128

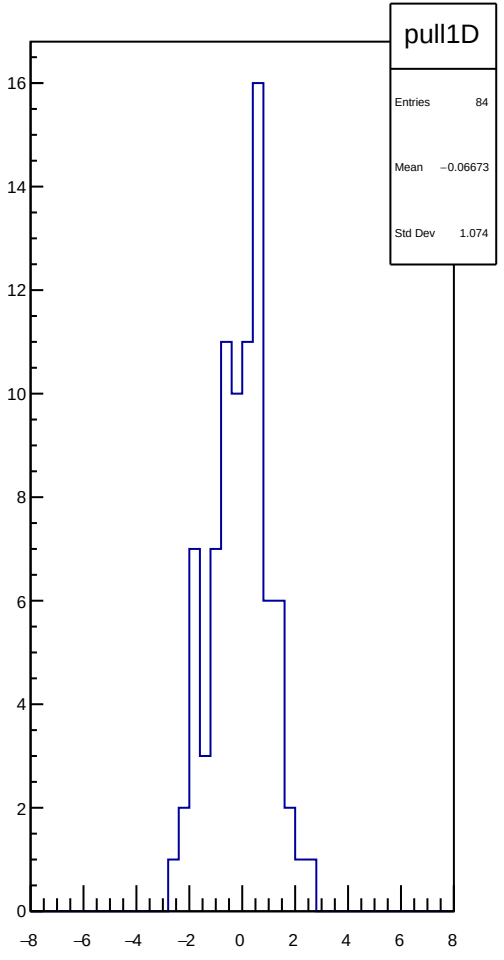

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.667e+04 / 83
p0 466.1 ± 0.3643
800
700
600
500
400

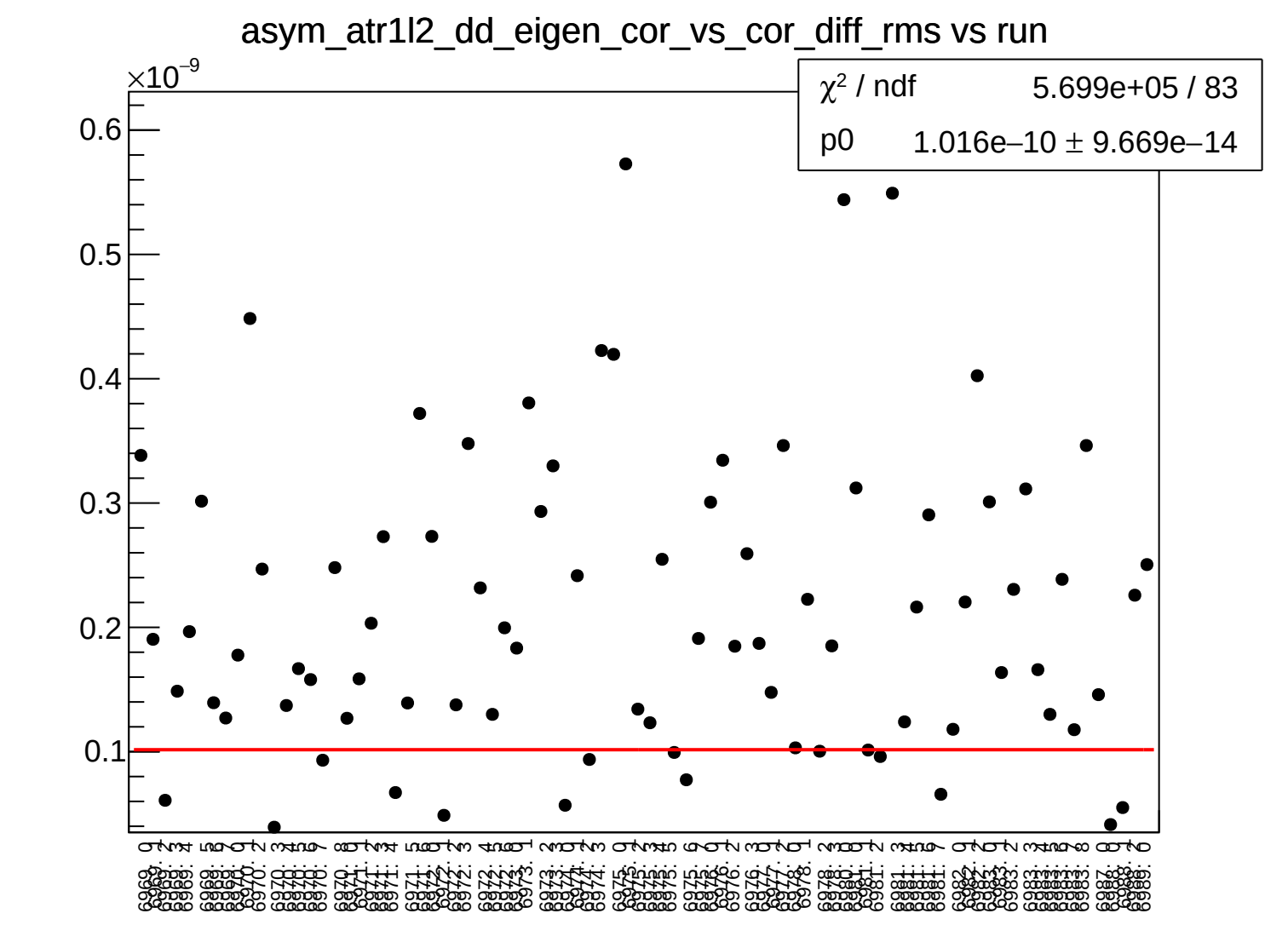

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.9 / 83
p0 0.9 ± 0.5152
pull
Entries 84
Mean −481.8
Std Dev 0

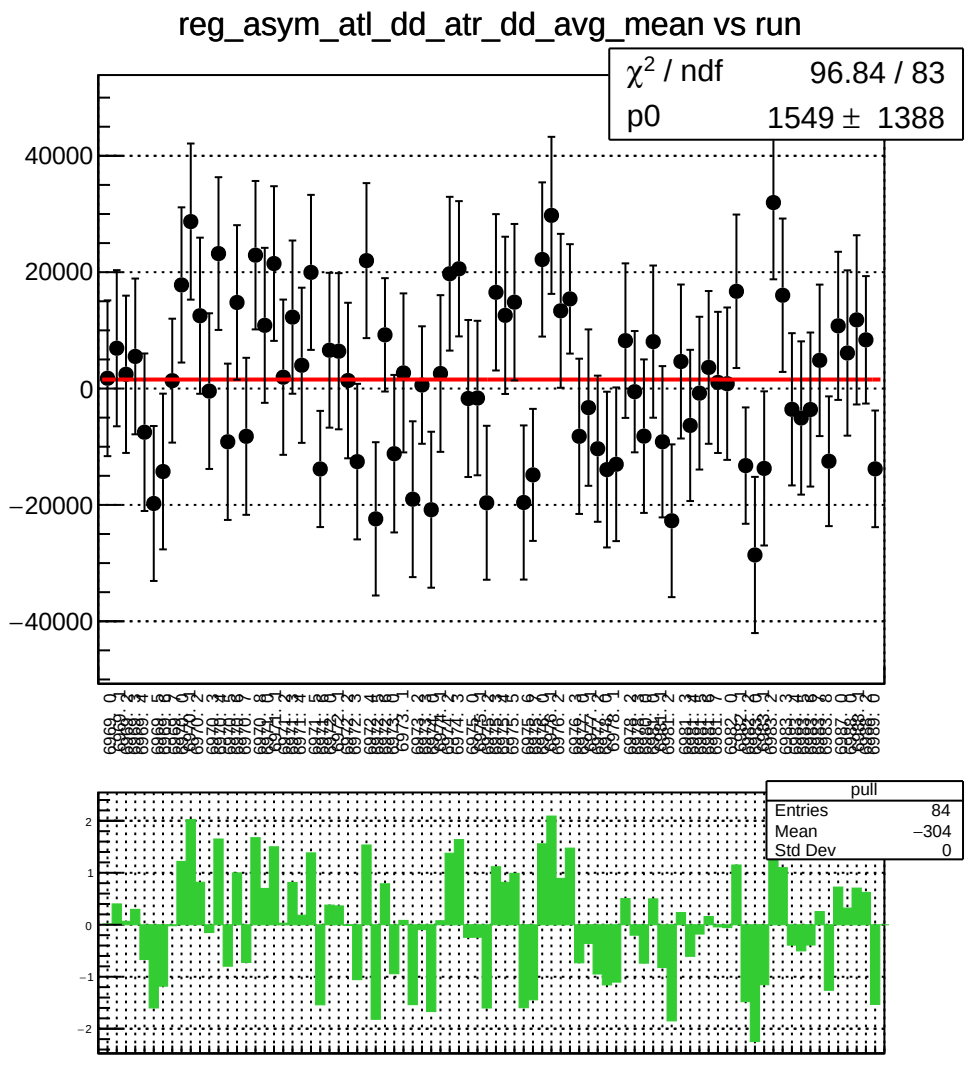

pull1D
Entries 84
Mean 0.00669
Std Dev 1.128

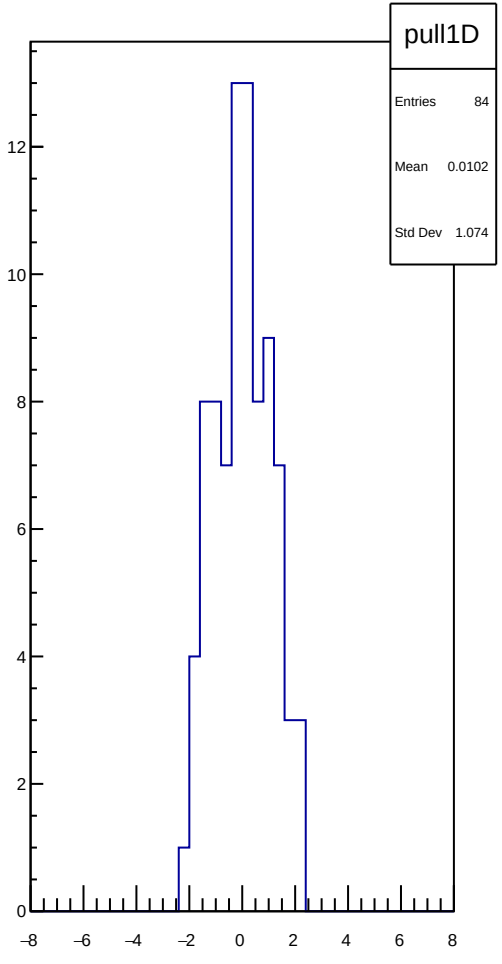

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.667e+04 / 83
p0 466.1 ± 0.3643
800
700
600
500
400

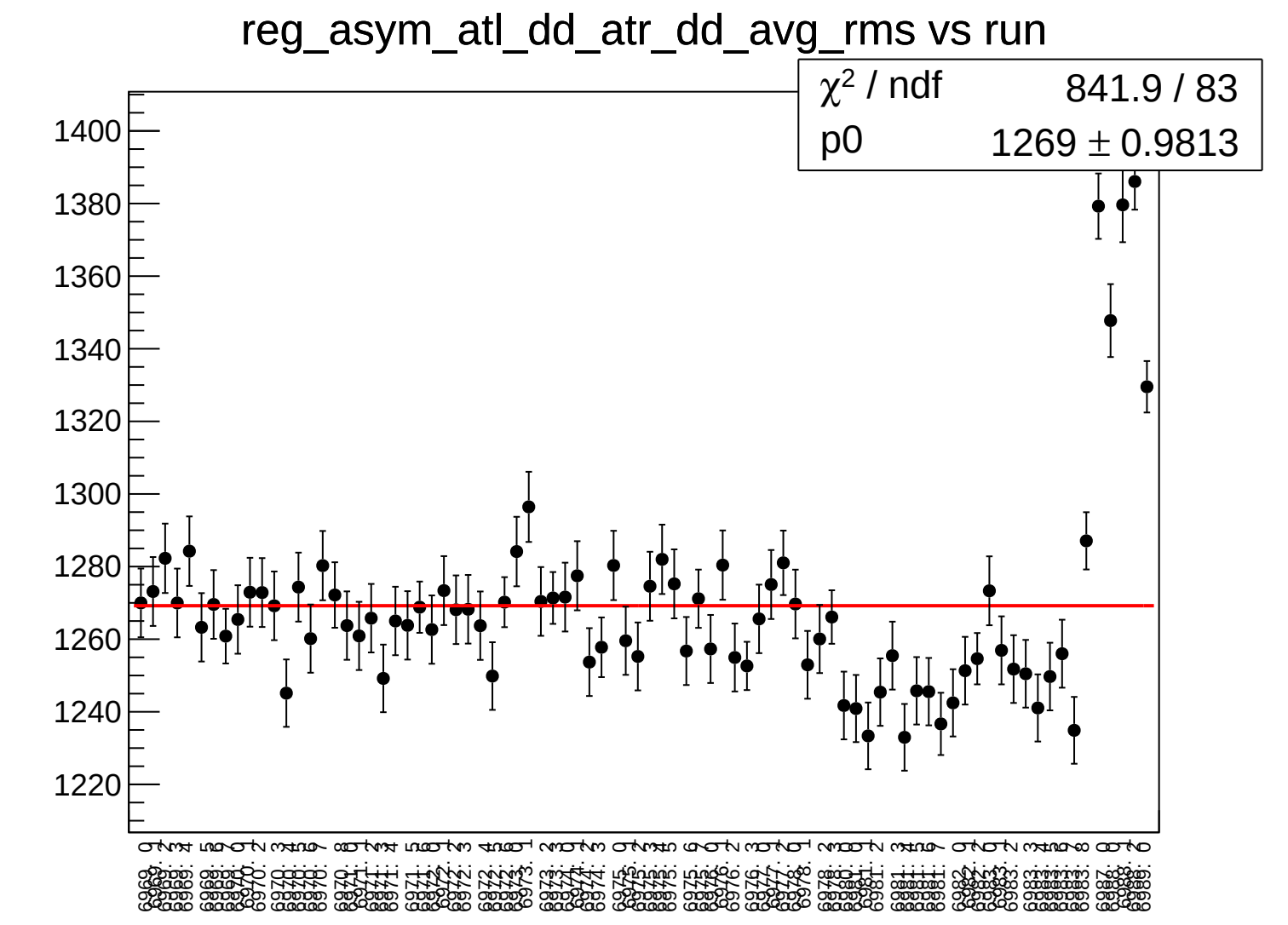

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.21 / 83
p0 −2.924e−13 ± 1.367e−13
pull
Entries 84
Mean 63.84
Std Dev 31.63

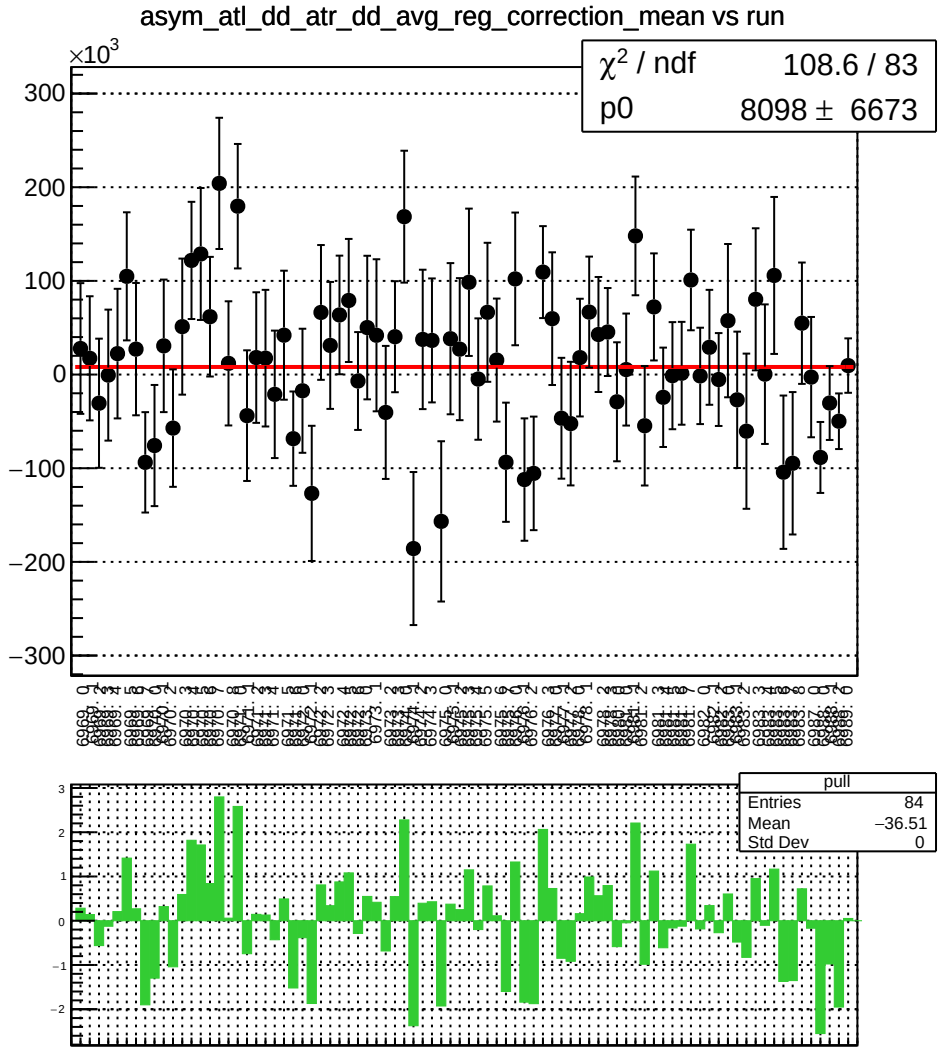

pull1D
Entries 84
Mean −0.06673
Std Dev 1.074

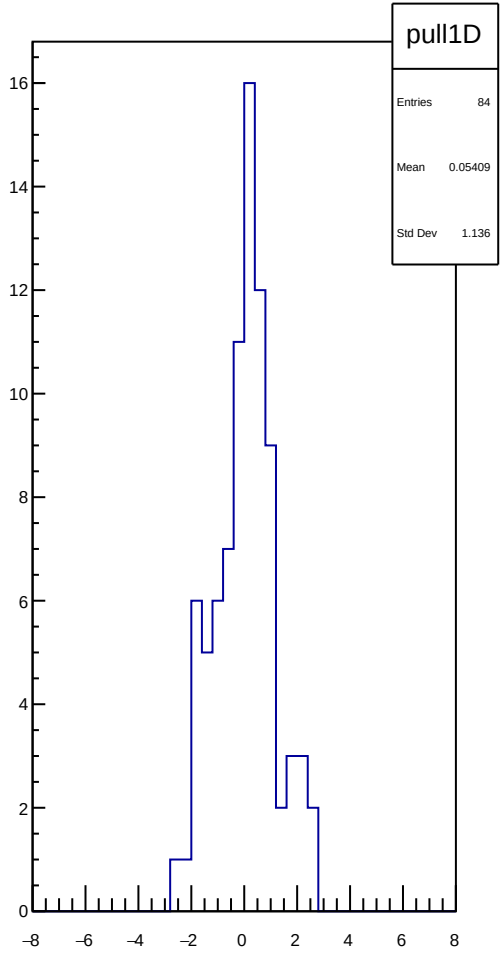

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.699e+05 / 83
p0 1.016e−10 ± 9.669e−14
0.6
0.5
0.4
0.3
0.2
0.1

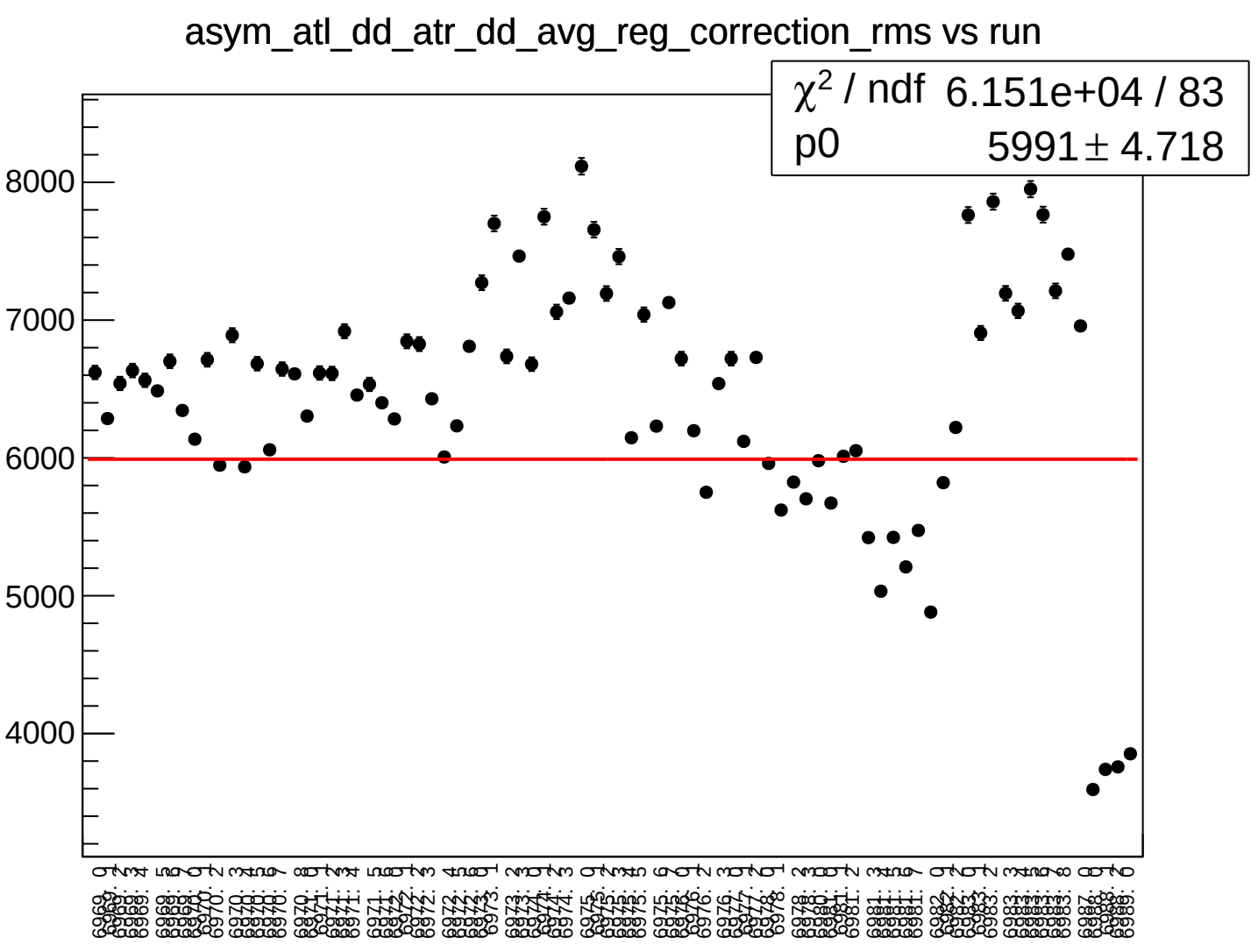

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 96.84 / 83
p0 1549 ± 1388
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −304
Std Dev 0
2
1
0
−1
−2

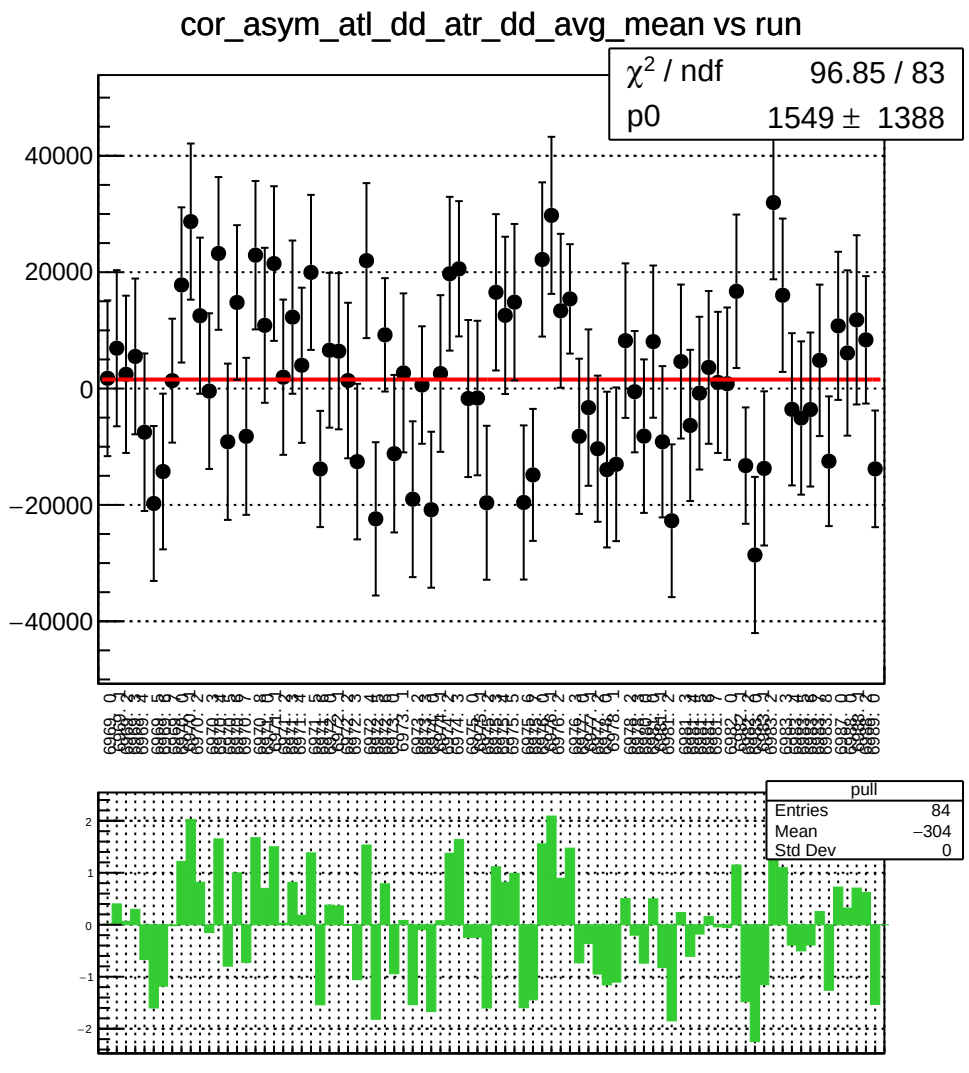

pull1D
Entries 84
Mean 0.0102
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

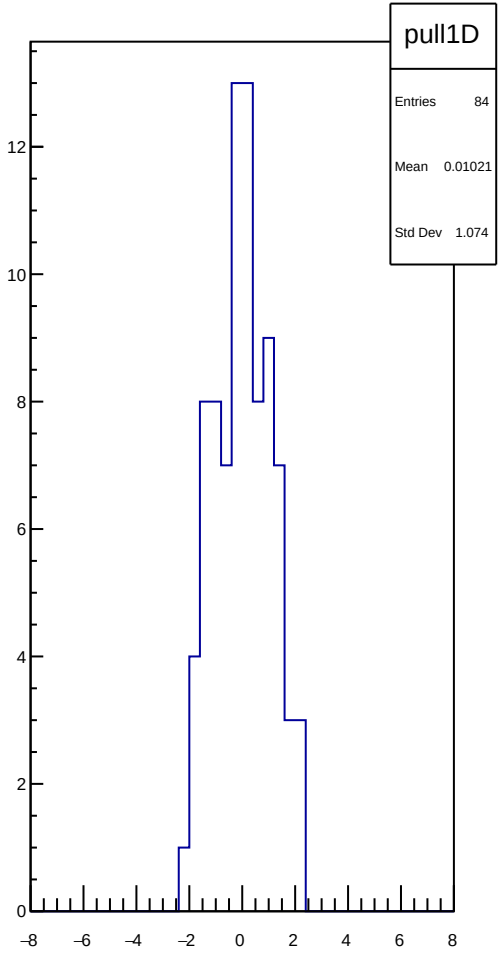

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 841.9 / 83
p0 1269 ± 0.9813
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

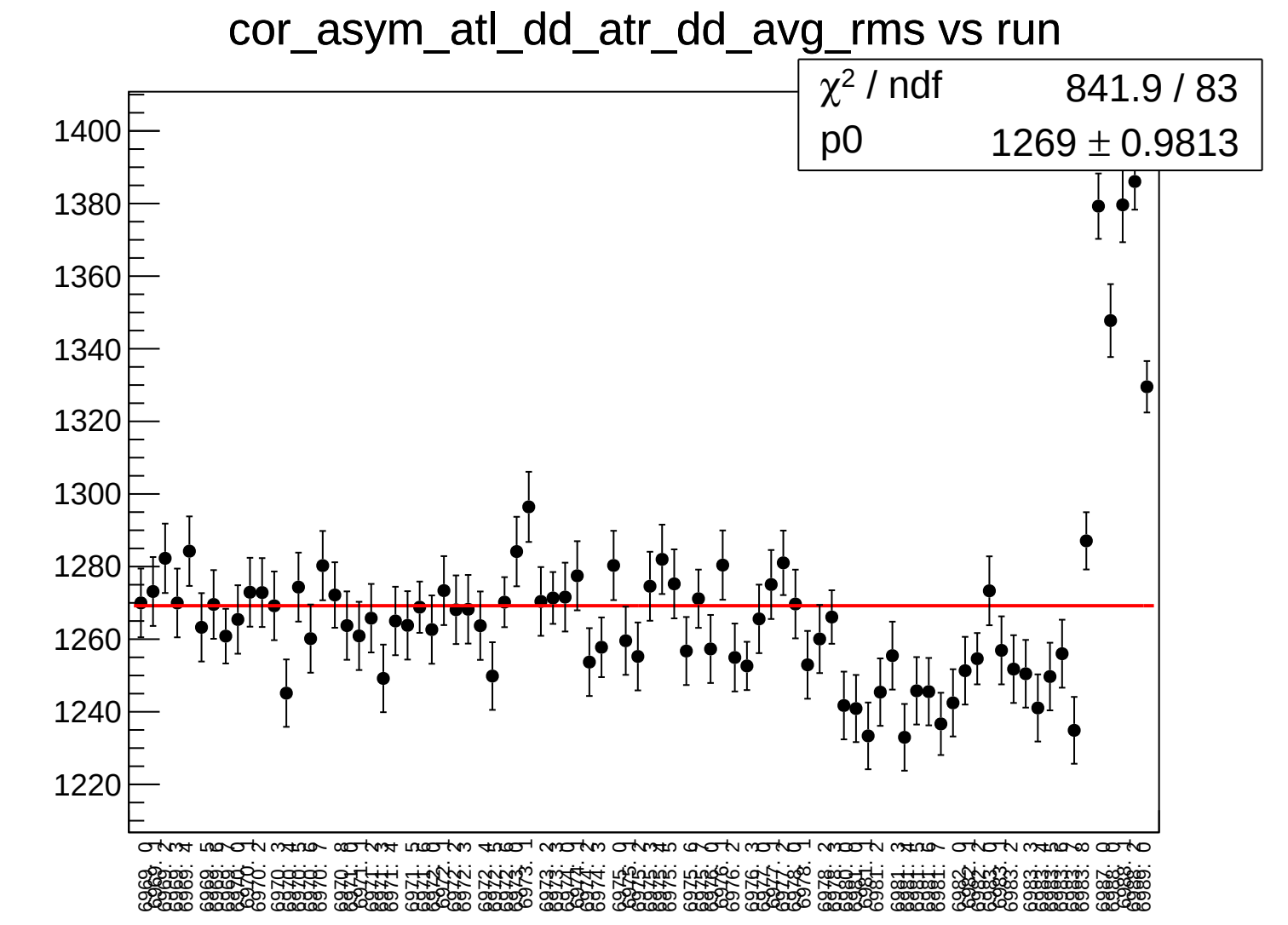

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 108.6 / 83
p0 8098 ± 6673
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −36.51
Std Dev 0
3
2
1
0
−1
−2

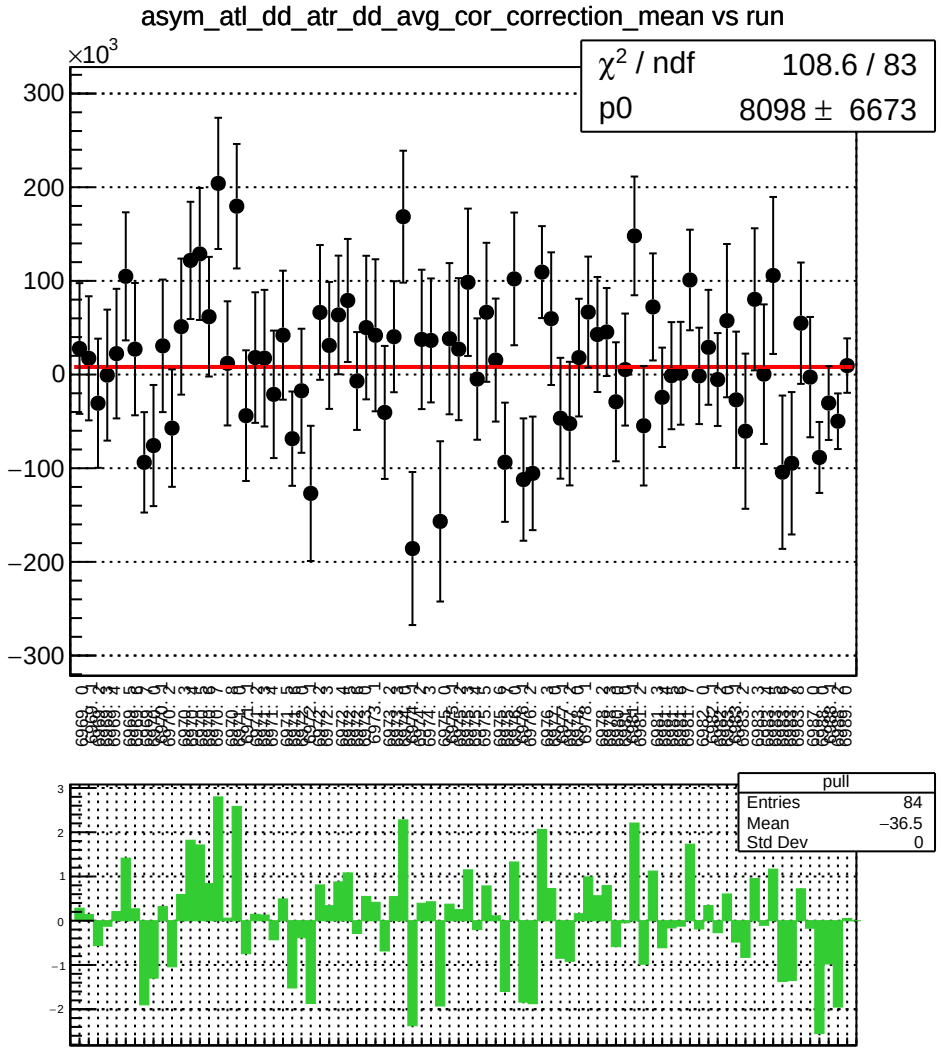

pull1D
Entries 84
Mean 0.05409
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

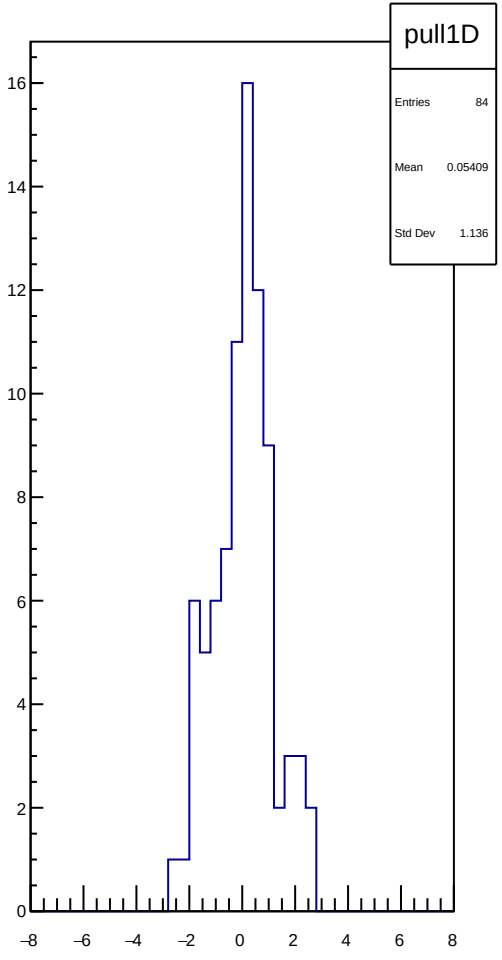

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 6.151e+04 / 83
p0 5991 ± 4.718
8000
7000
6000
5000
4000

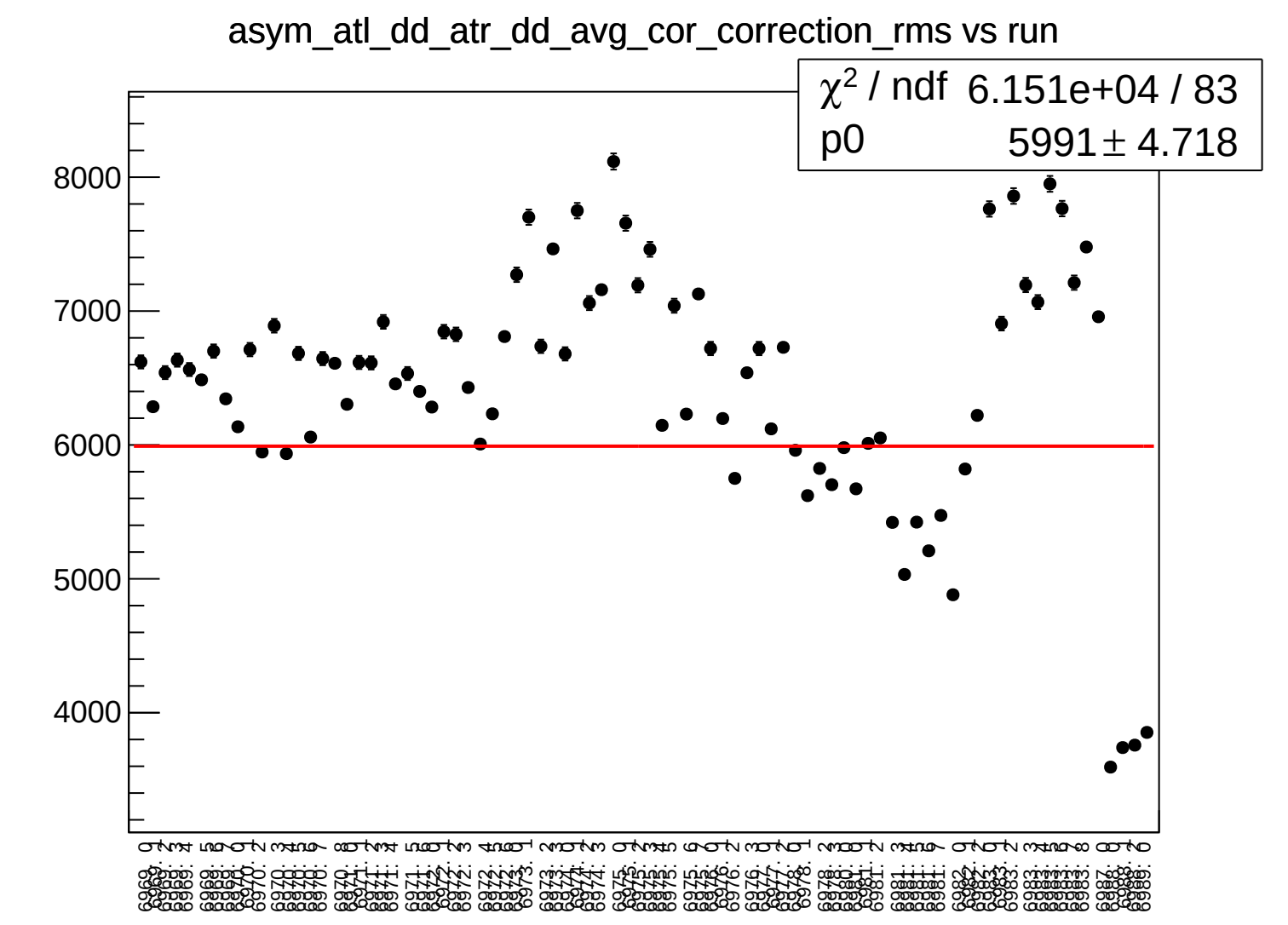

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 96.85 / 83
p0 1549 ± 1388
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −304
Std Dev 0
2
1
0
−1
−2

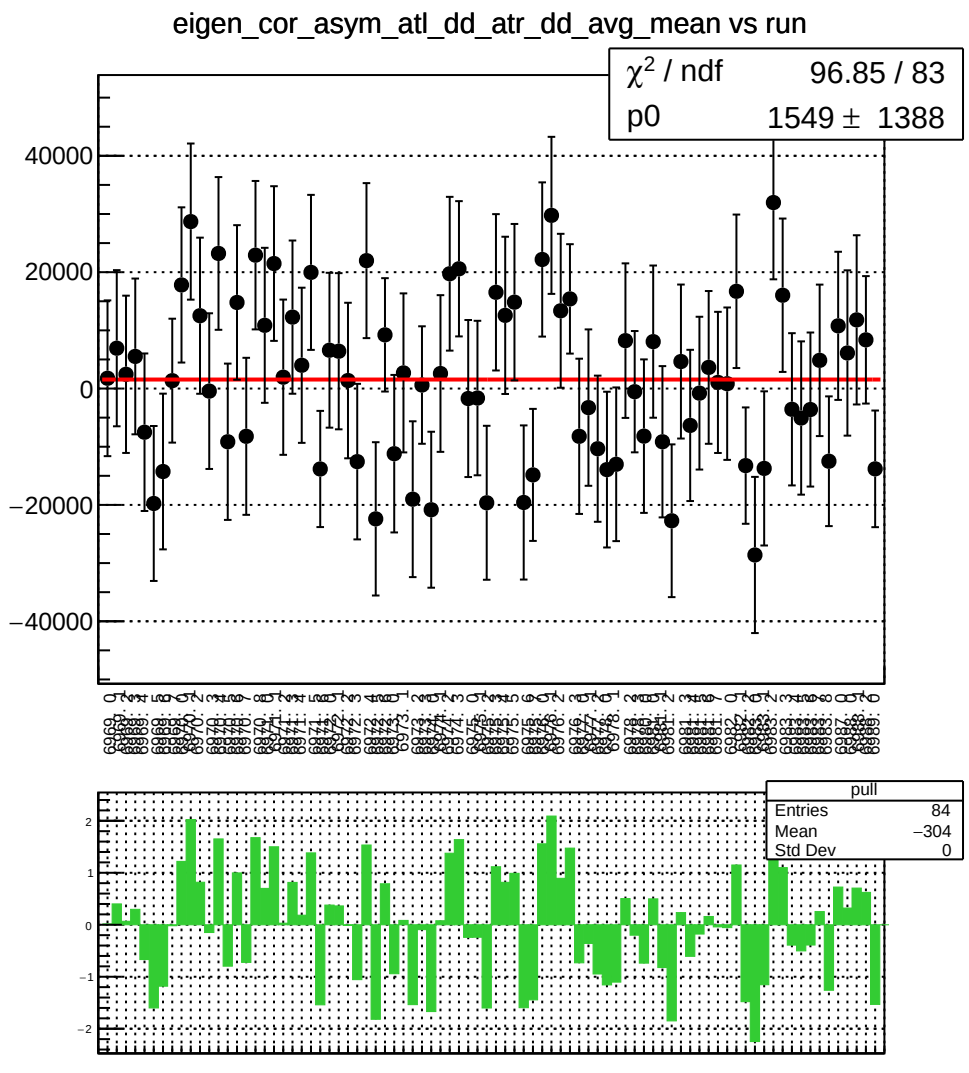

pull1D
Entries 84
Mean 0.01021
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

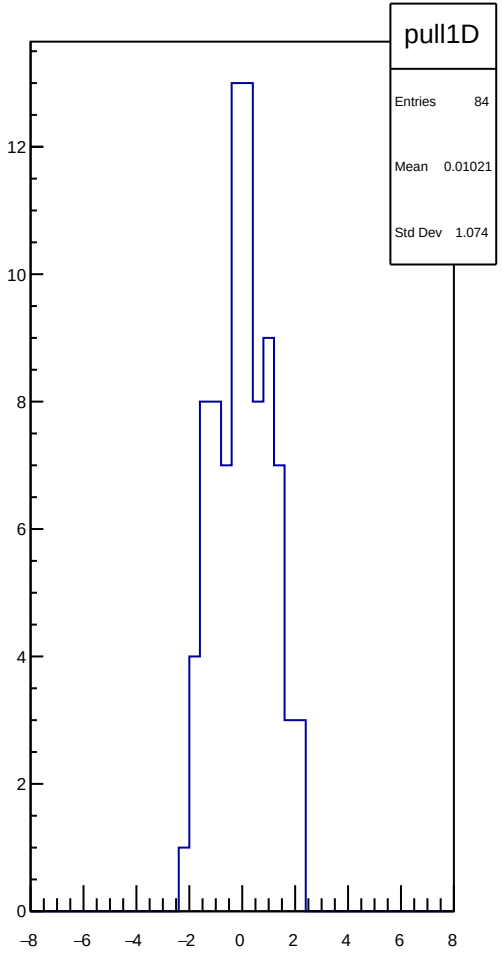

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 841.9 / 83
p0 1269 ± 0.9813
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220


asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 108.6 / 83
p0 8098 ± 6673
pull
Entries 84
Mean −36.5
Std Dev 0


pull1D
Entries 84
Mean 0.05409
Std Dev 1.136


asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 6.151e+04 / 83
p0 5991 ± 4.718
8000
7000
6000
5000
4000


eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 96.85 / 83
p0 1549 ± 1388
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −304
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.01021
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
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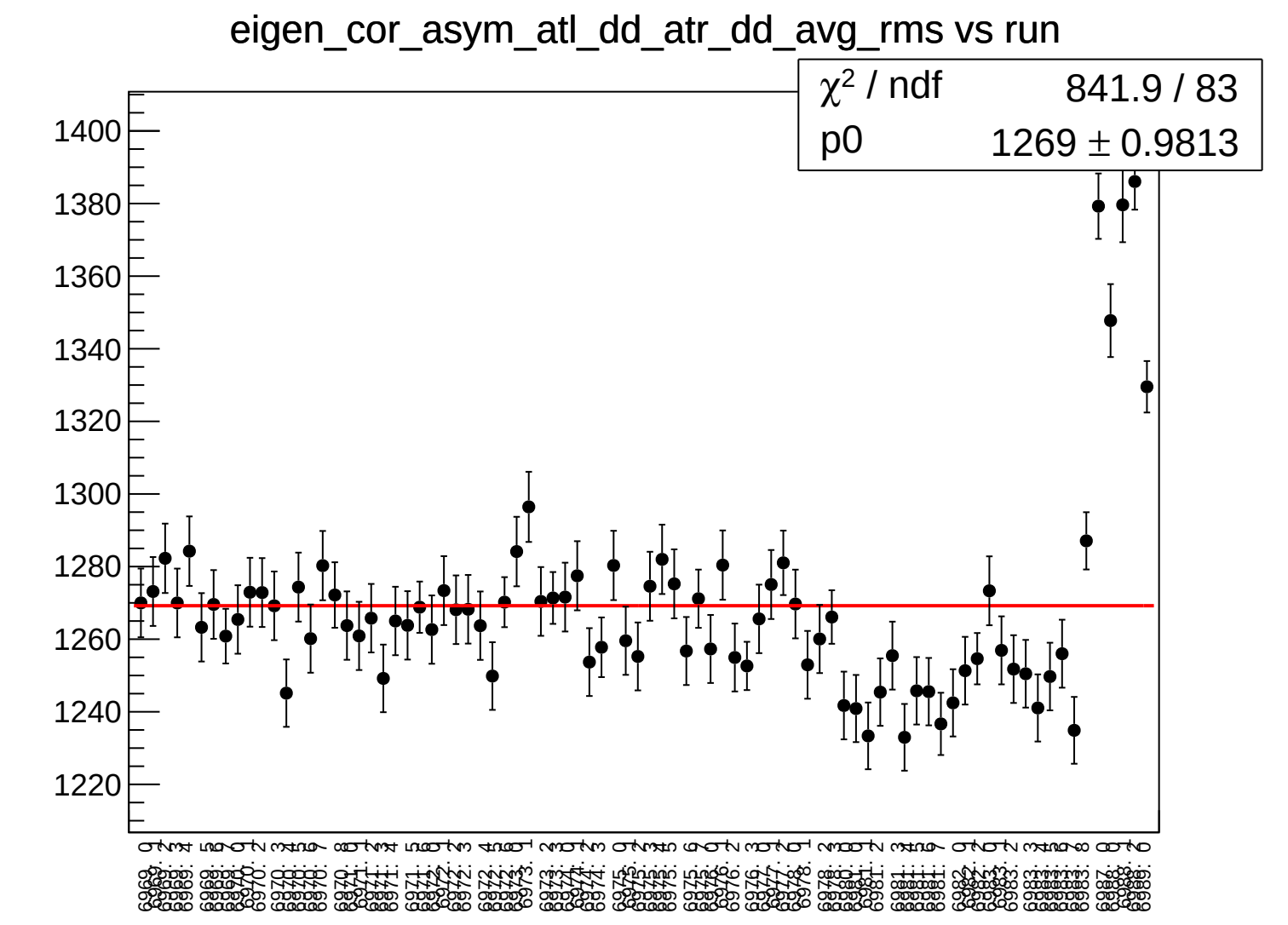
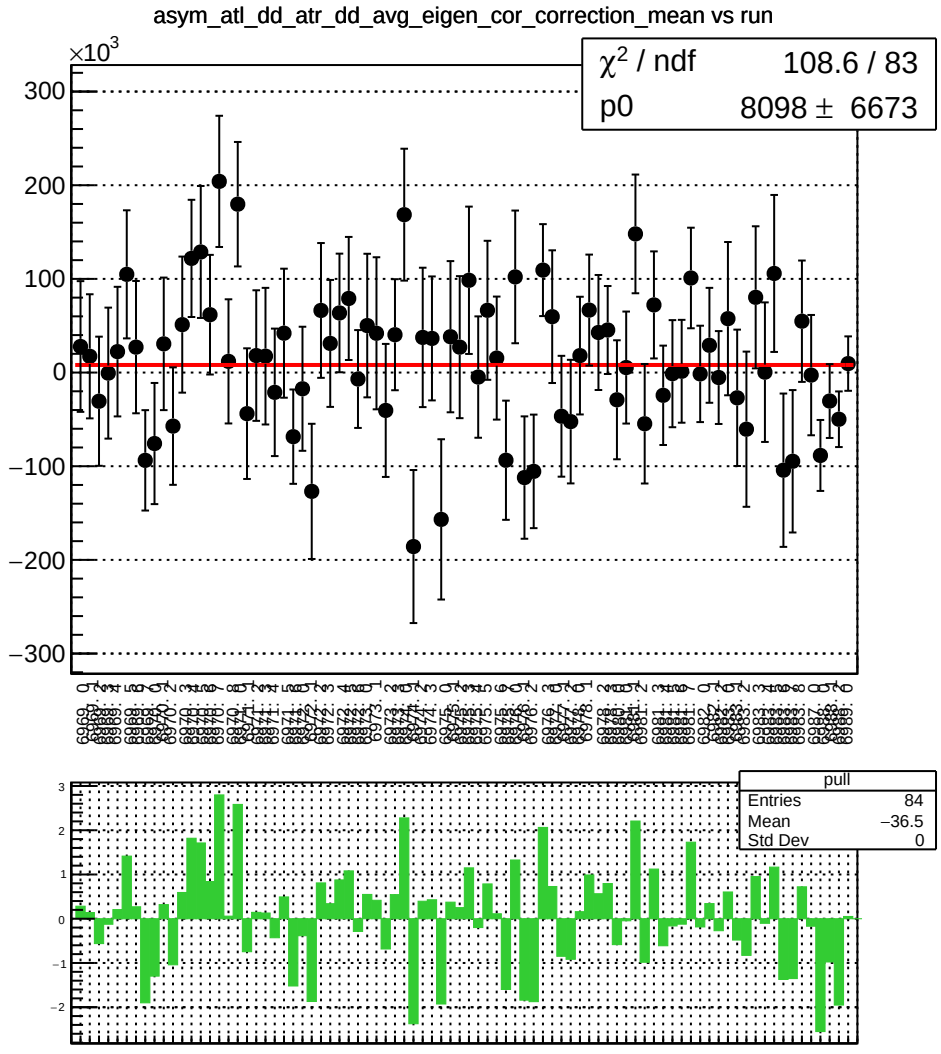
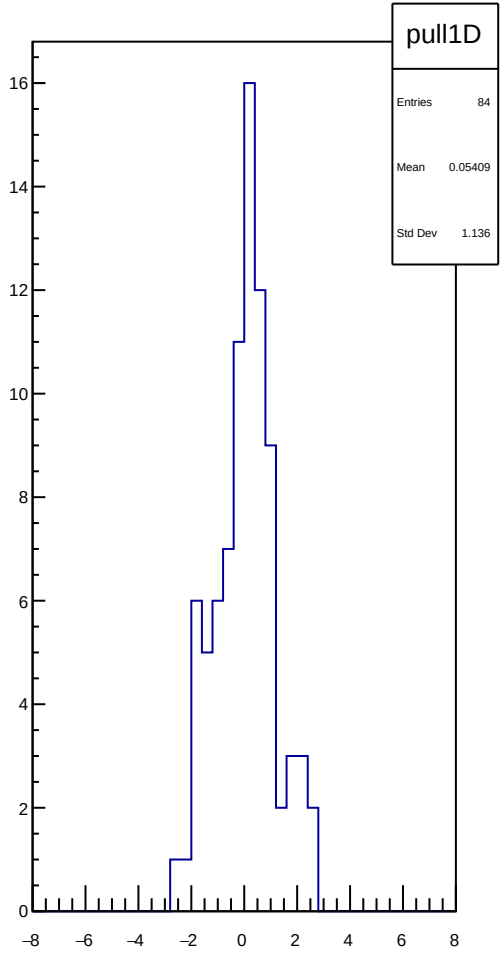
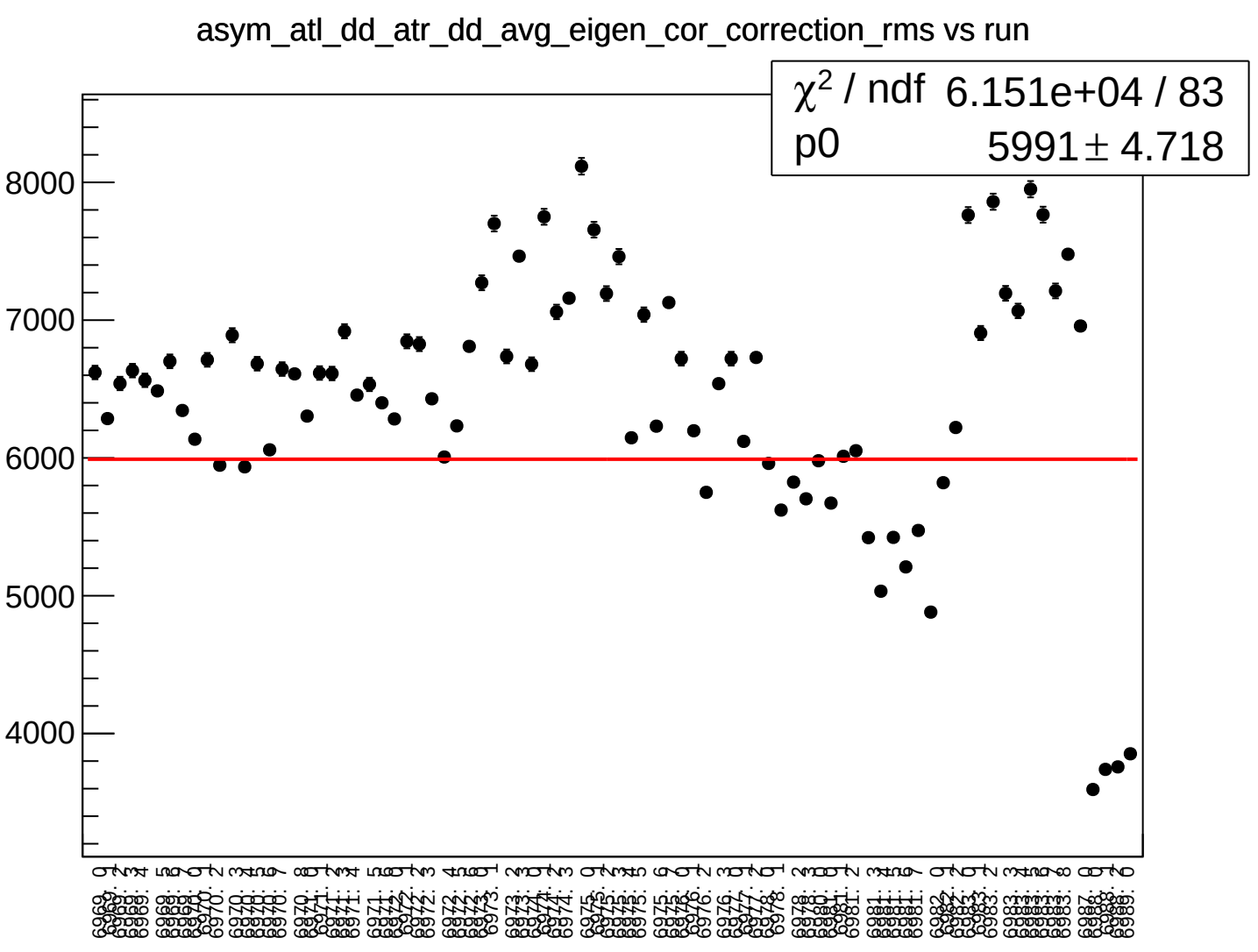
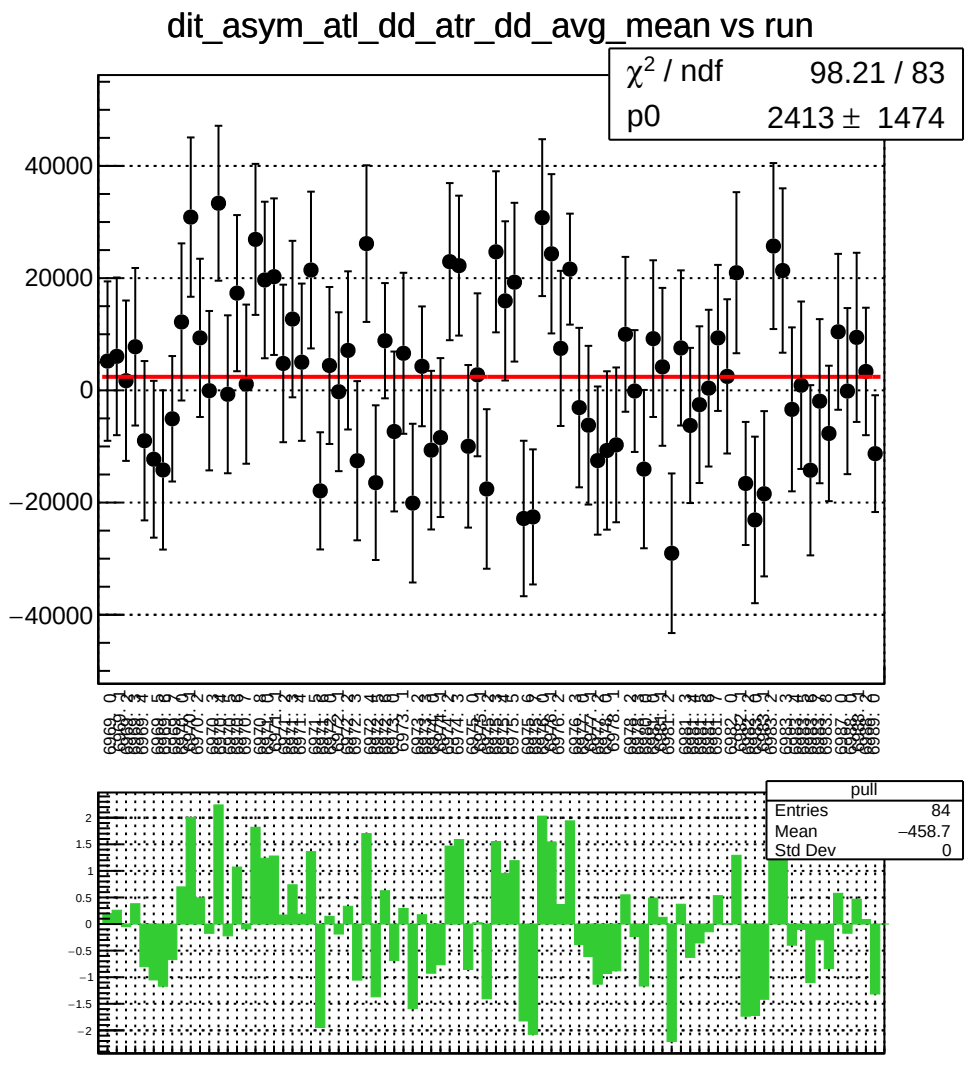
2
4
6
8

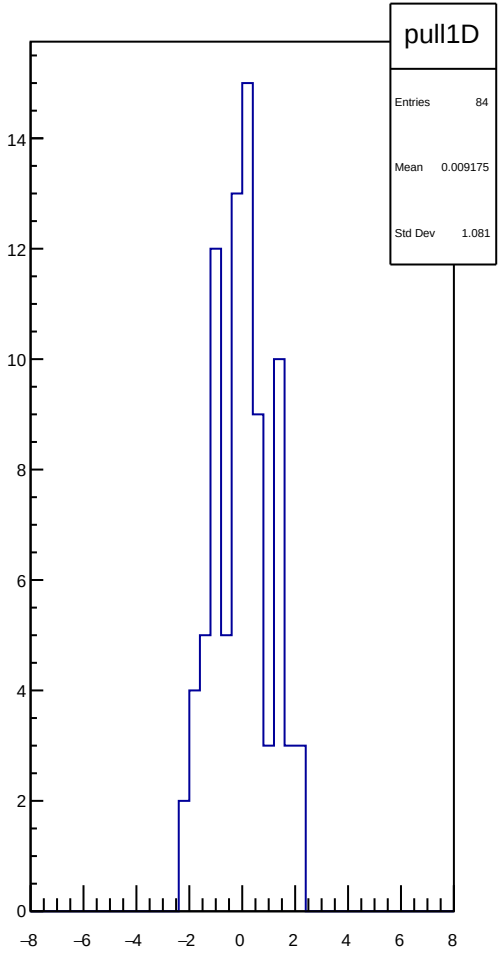

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 841.9 / 83
p0 1269 ± 0.9813
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

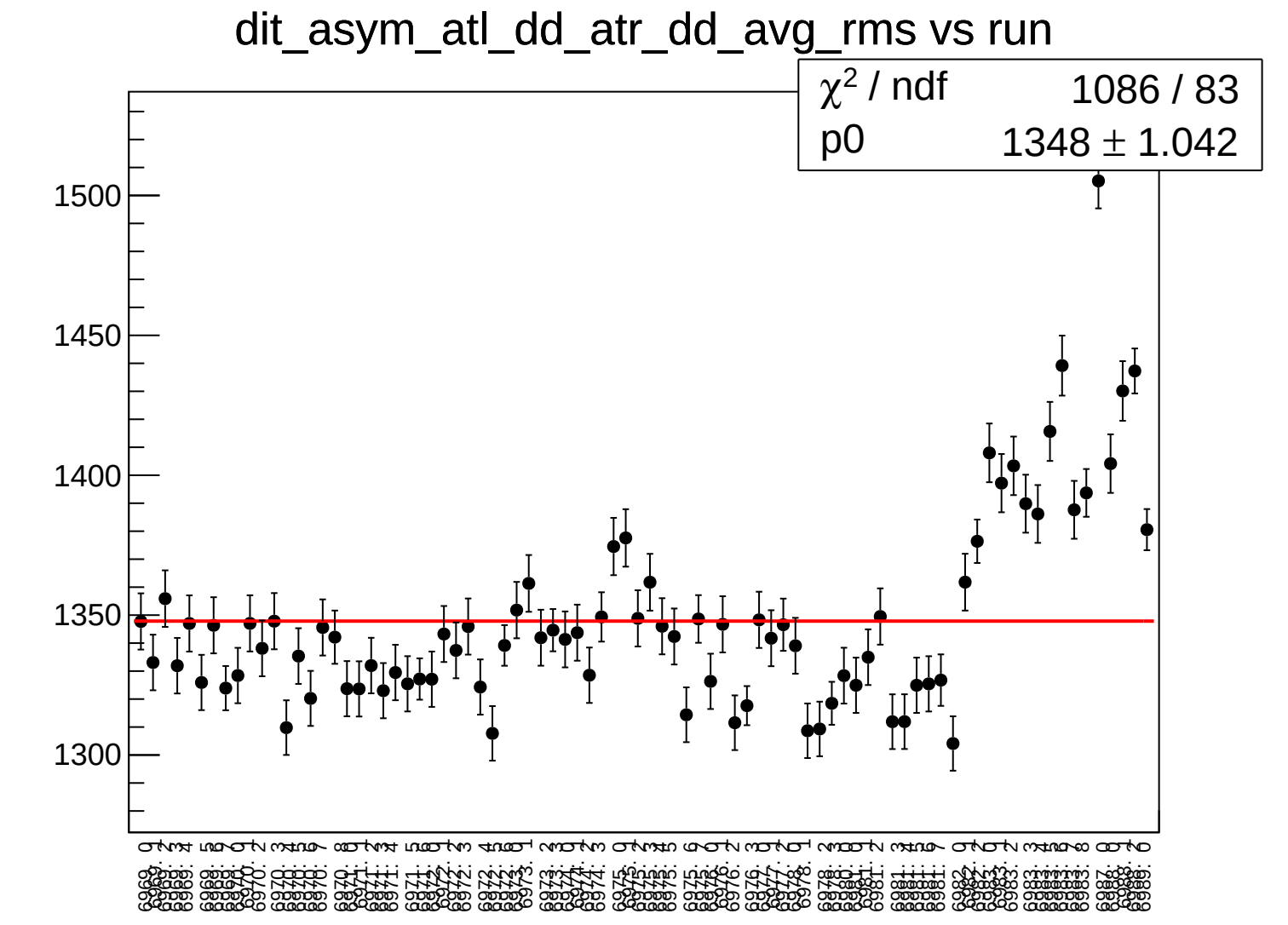

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108.6 / 83
p0 8098 ± 6673
pull
Entries 84
Mean −36.5
Std Dev 0

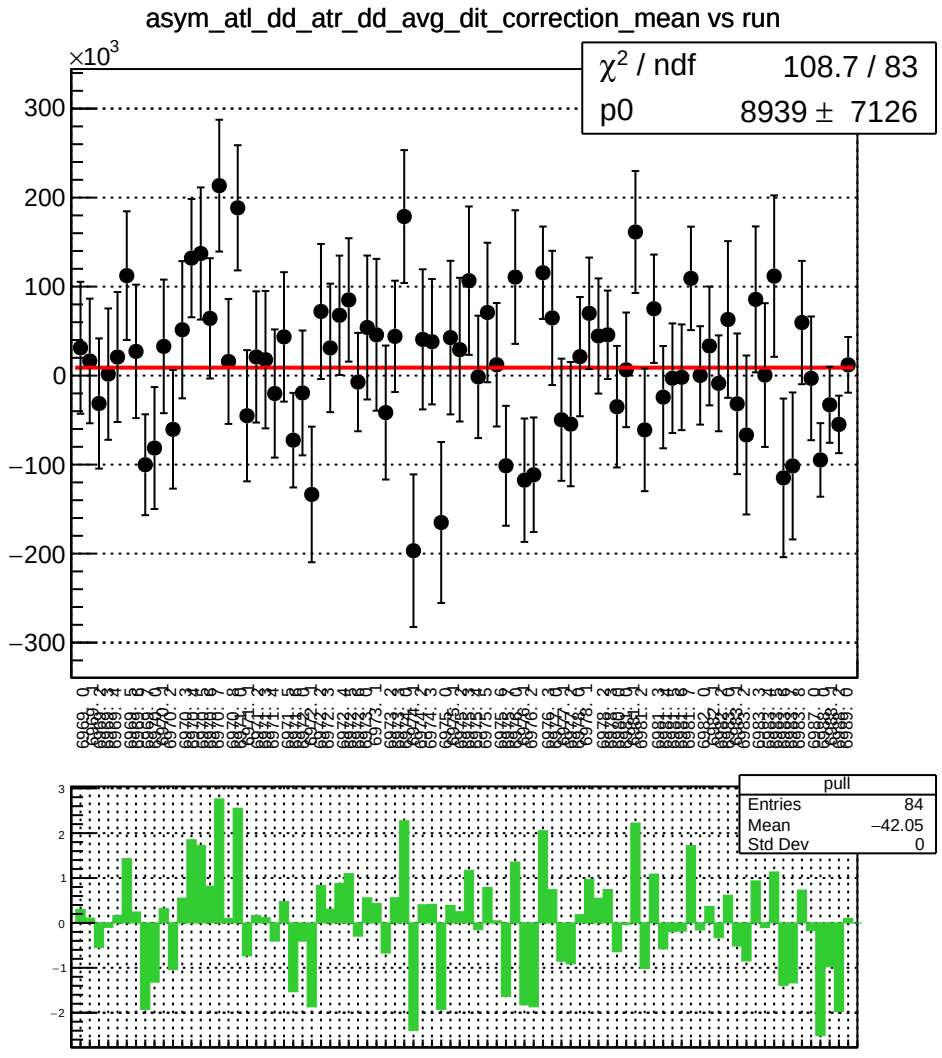

pull1D
Entries 84
Mean 0.05409
Std Dev 1.136

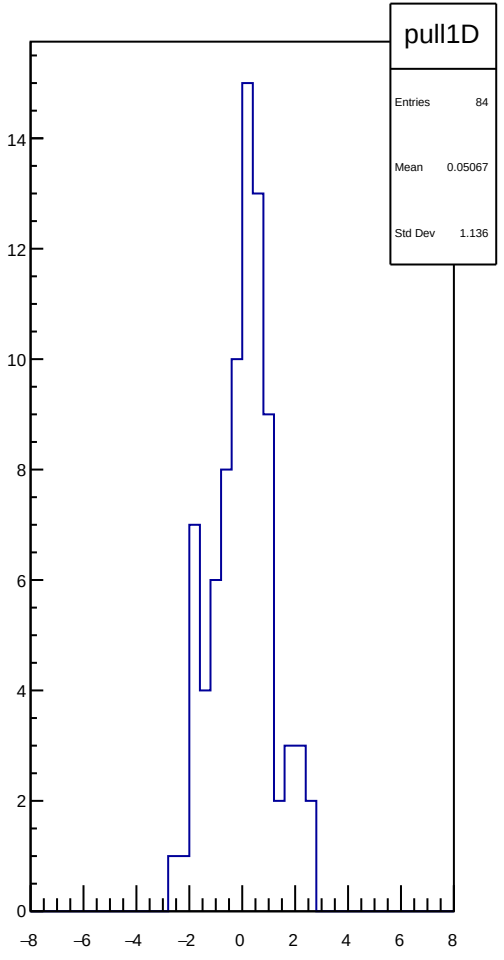

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.151e+04 / 83
p0 5991 ± 4.718
8000
7000
6000
5000
4000

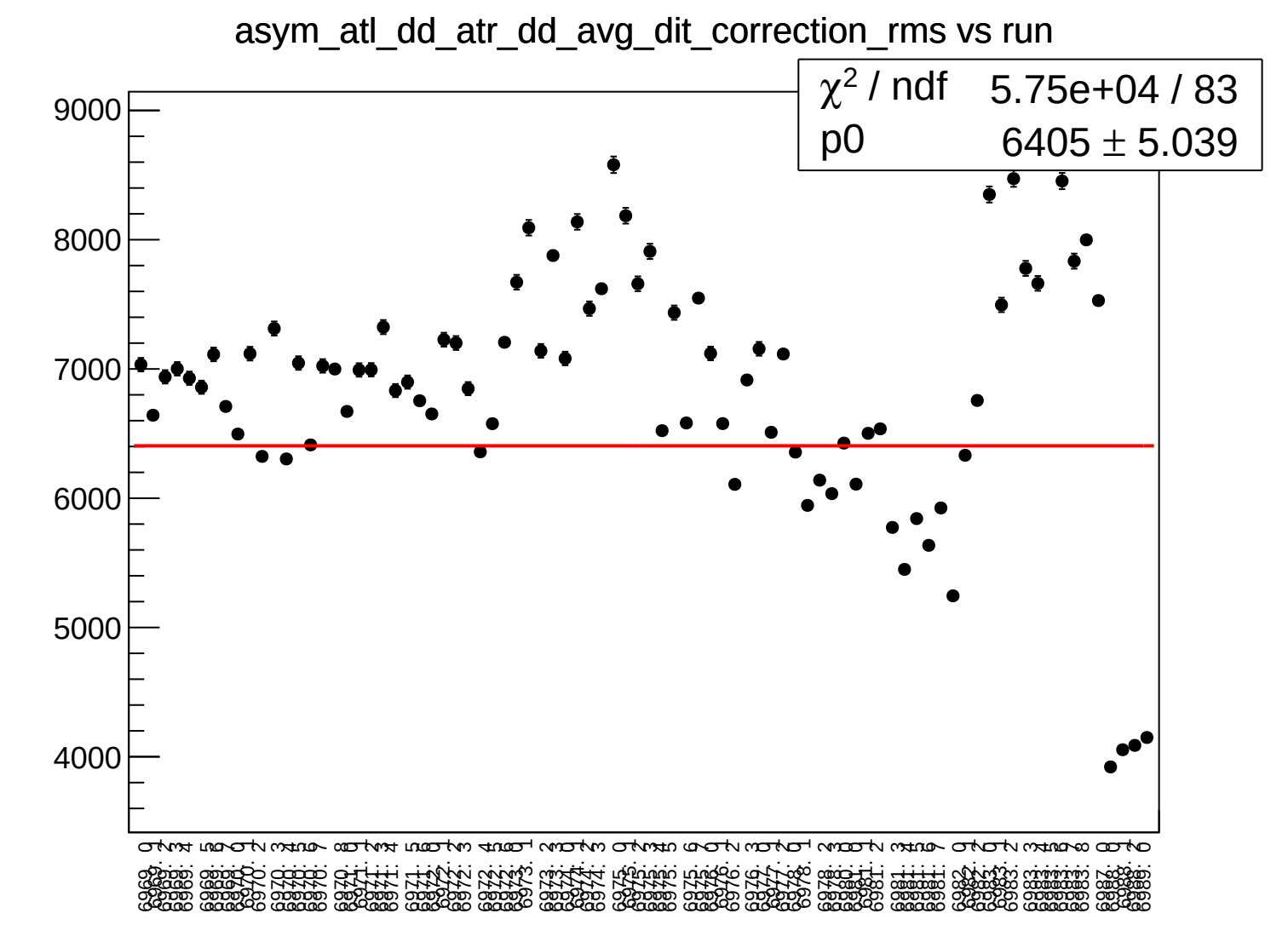

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 98.21 / 83
p0 2413 ± 1474
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −458.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

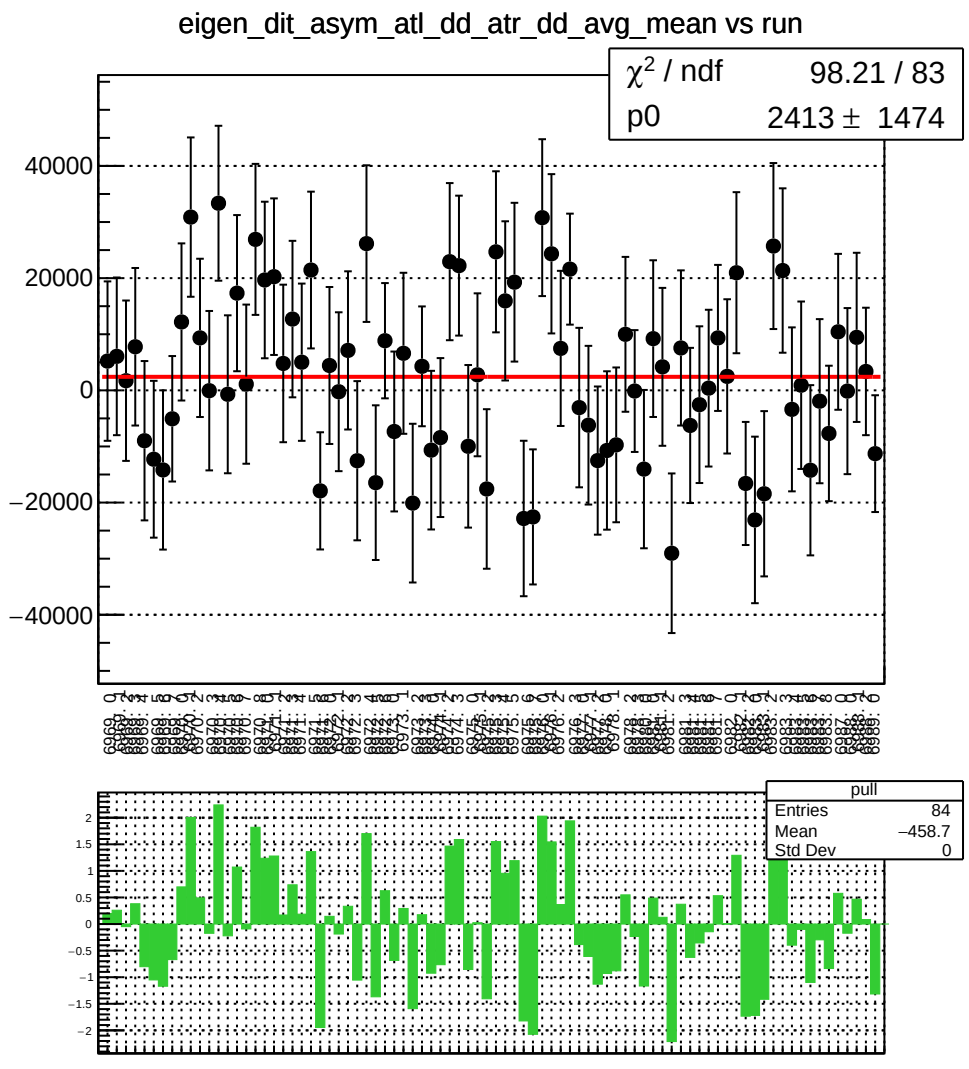

pull1D
Entries 84
Mean 0.009175
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

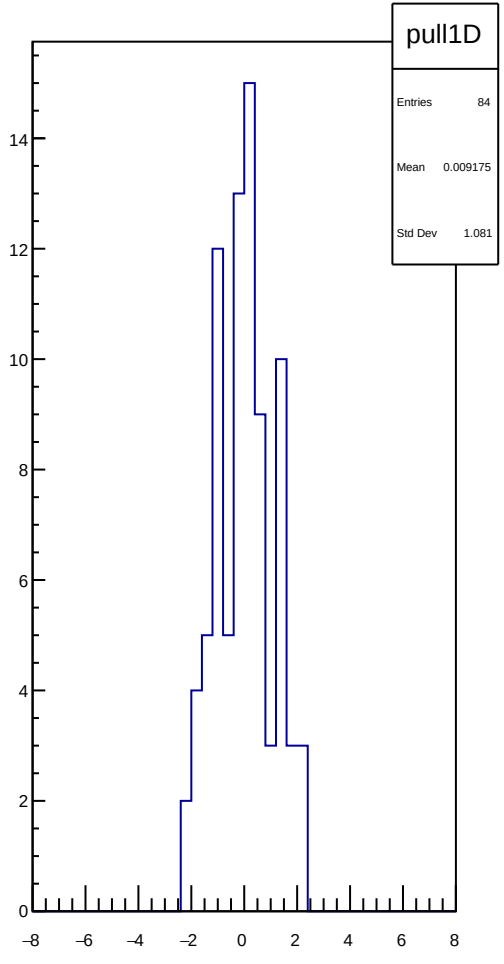

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1086 / 83
p0 1348 ± 1.042
1500
1450
1400
1350
1300

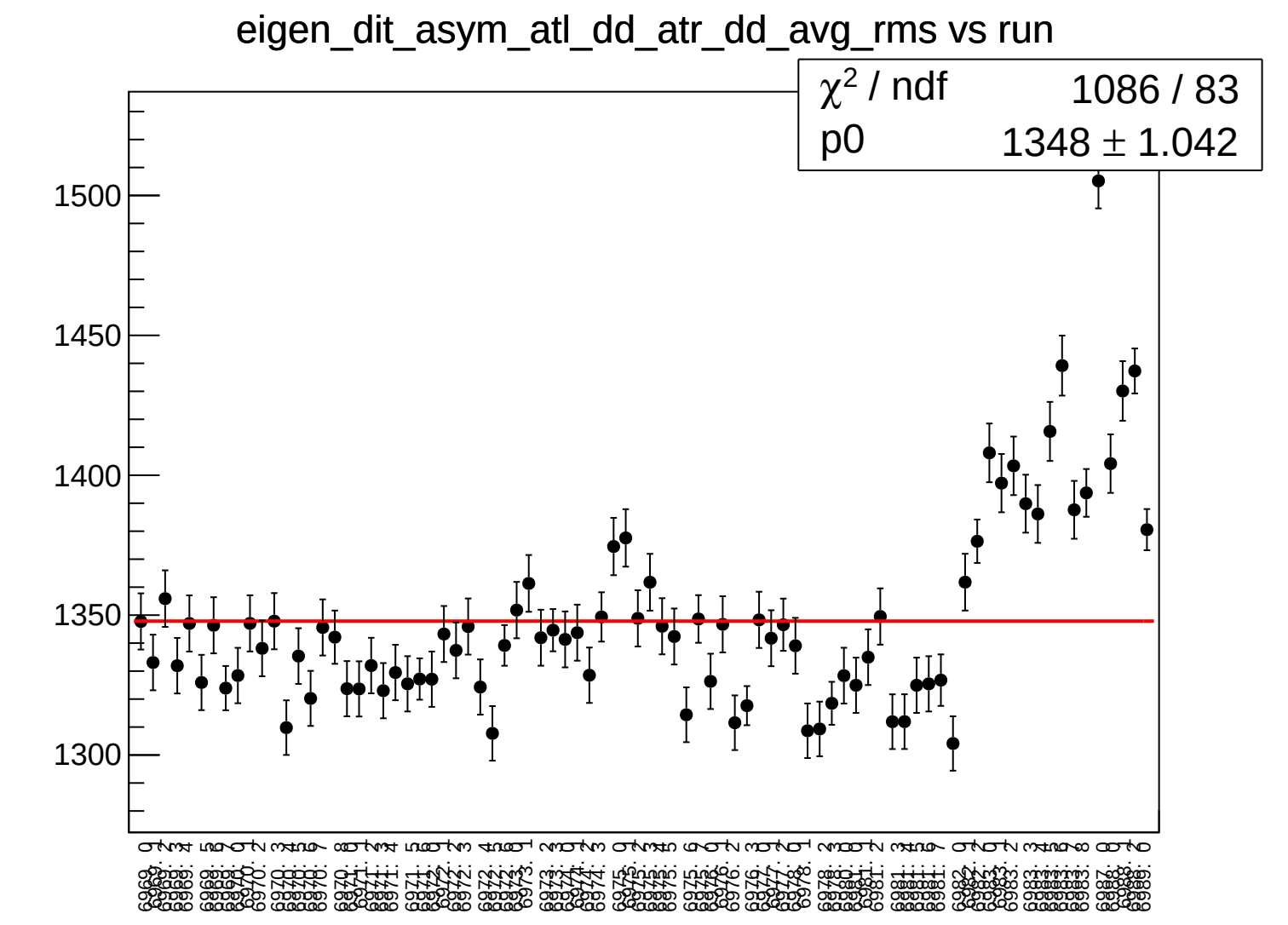

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 108.7 / 83
p0 8939 ± 7126
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −42.05
Std Dev 0
3
2
1
0
−1
−2

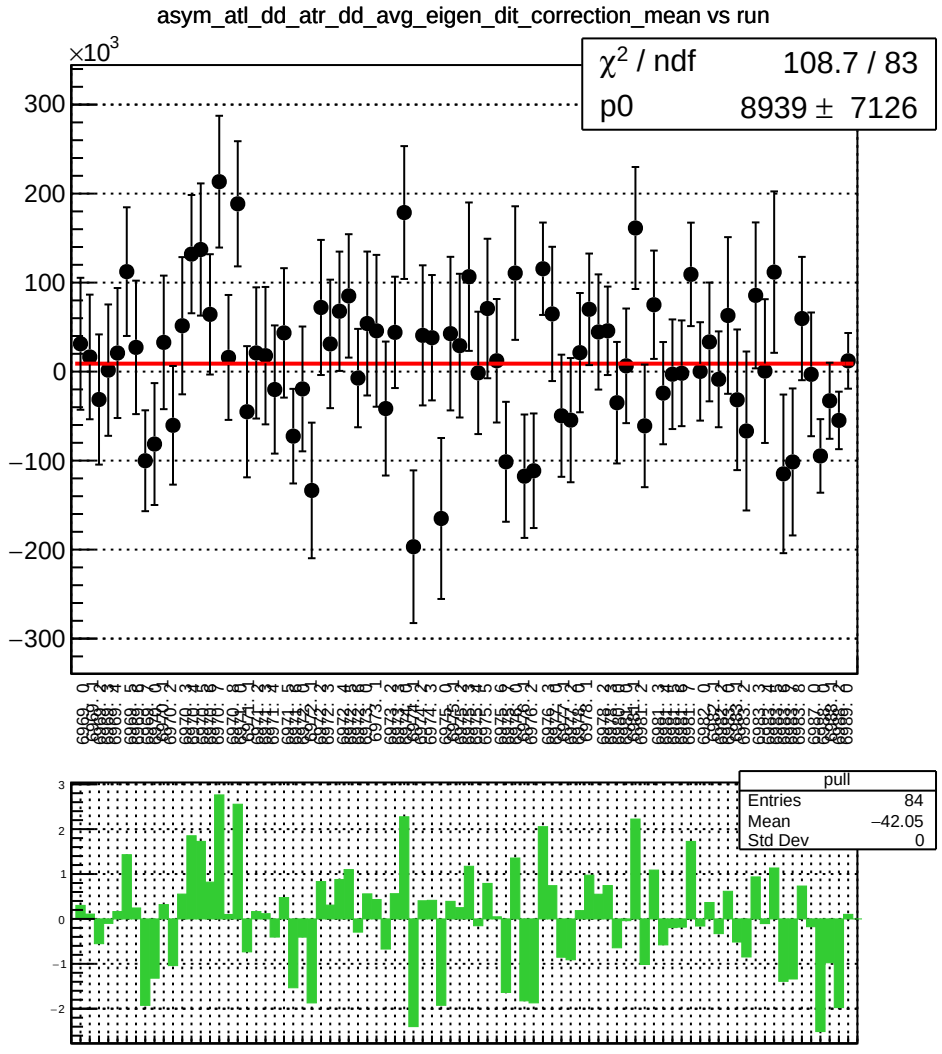

pull1D
Entries 84
Mean 0.05067
Std Dev 1.136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

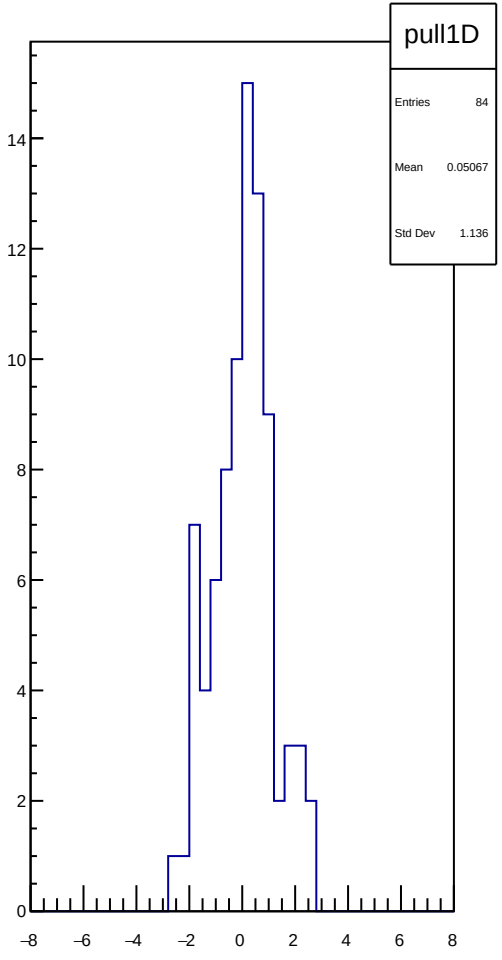

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 5.75e+04 / 83
p0 6405 ± 5.039
9000
8000
7000
6000
5000
4000

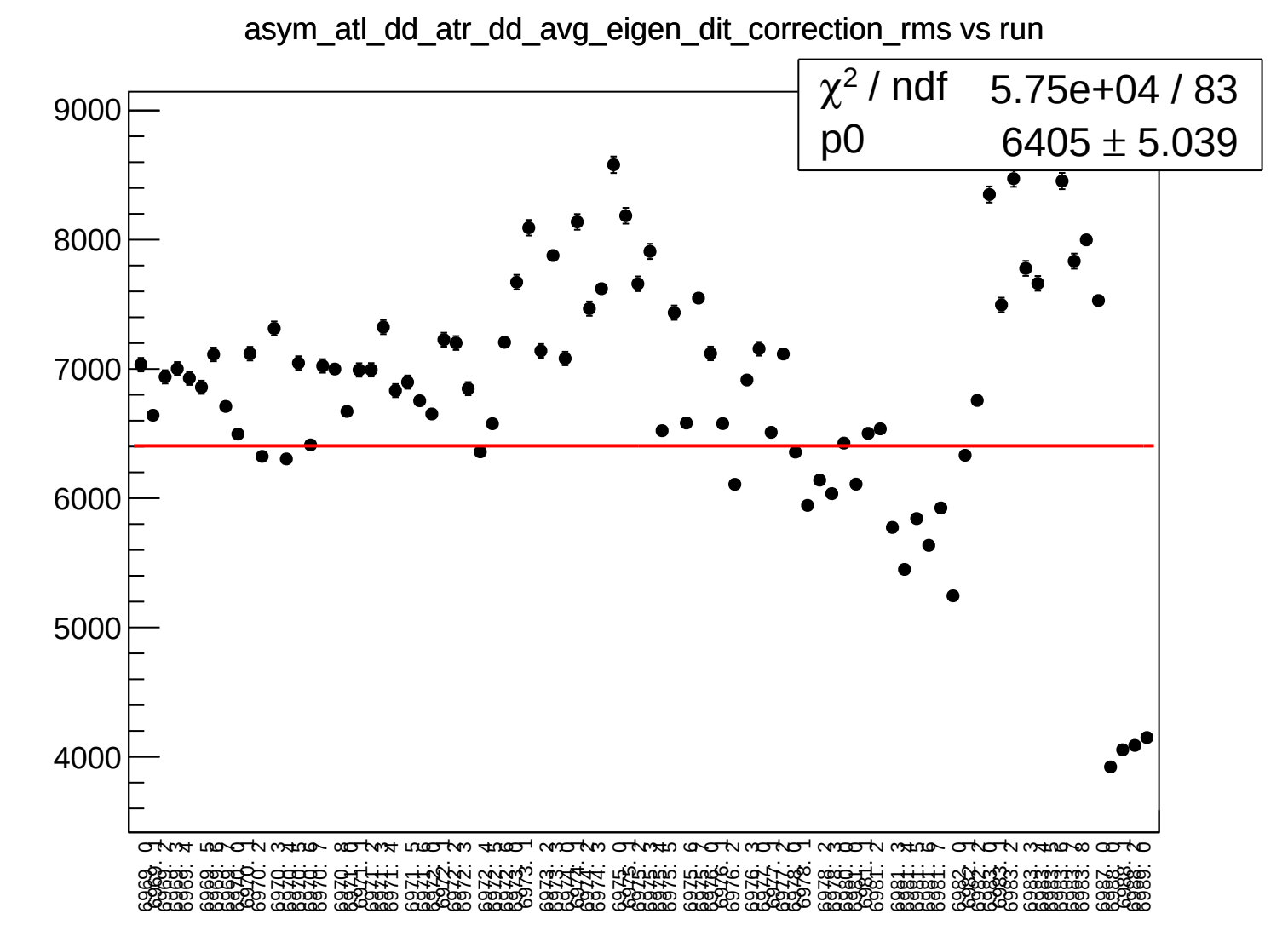

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 98.21 / 83
p0 2413 ± 1474
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −458.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

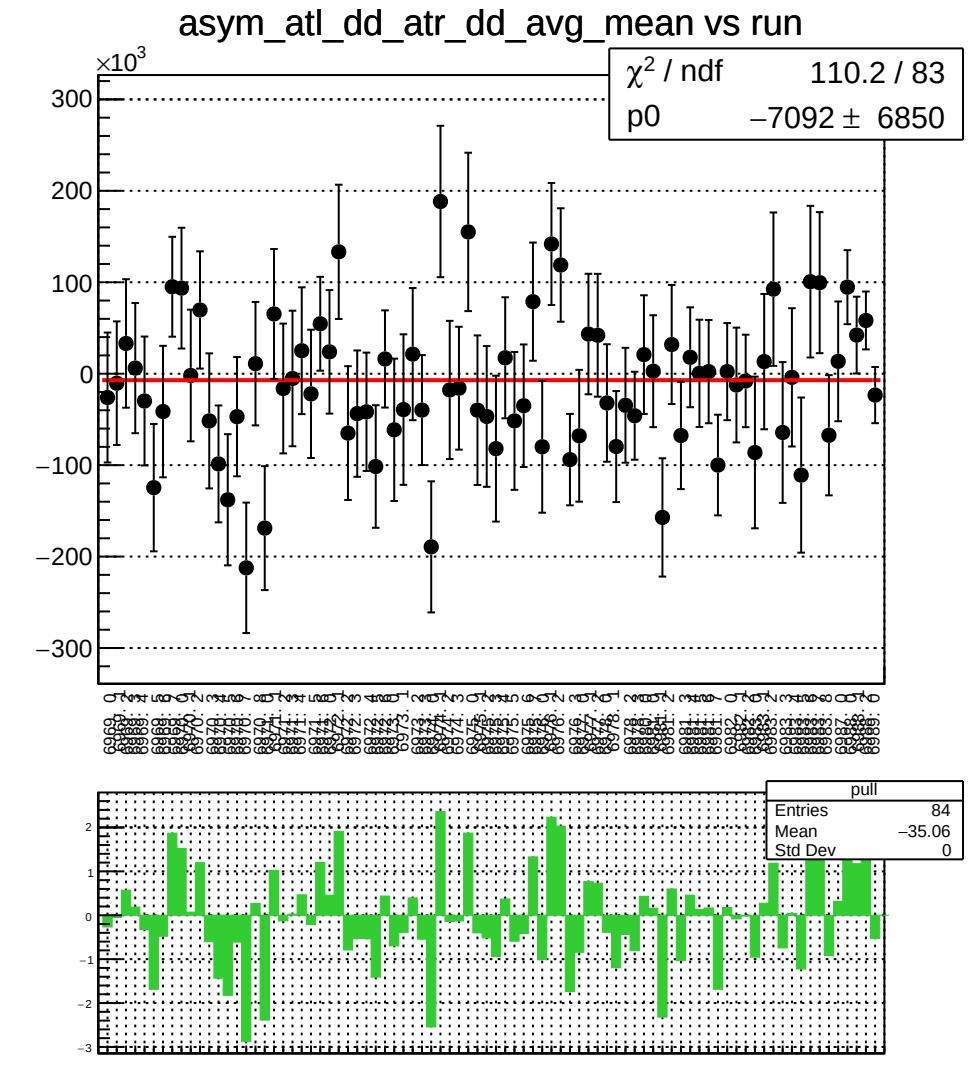

pull1D
Entries 84
Mean 0.009175
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

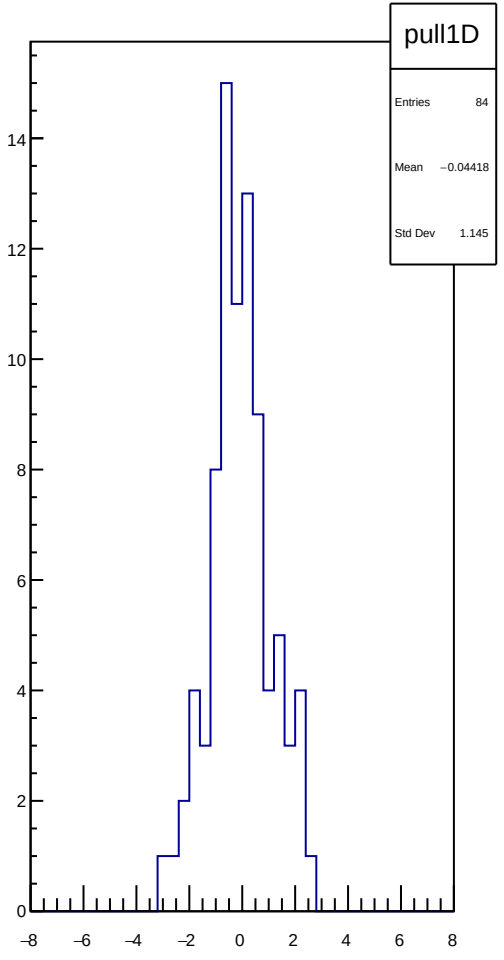

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1086 / 83
p0 1348 ± 1.042
1500
1450
1400
1350
1300

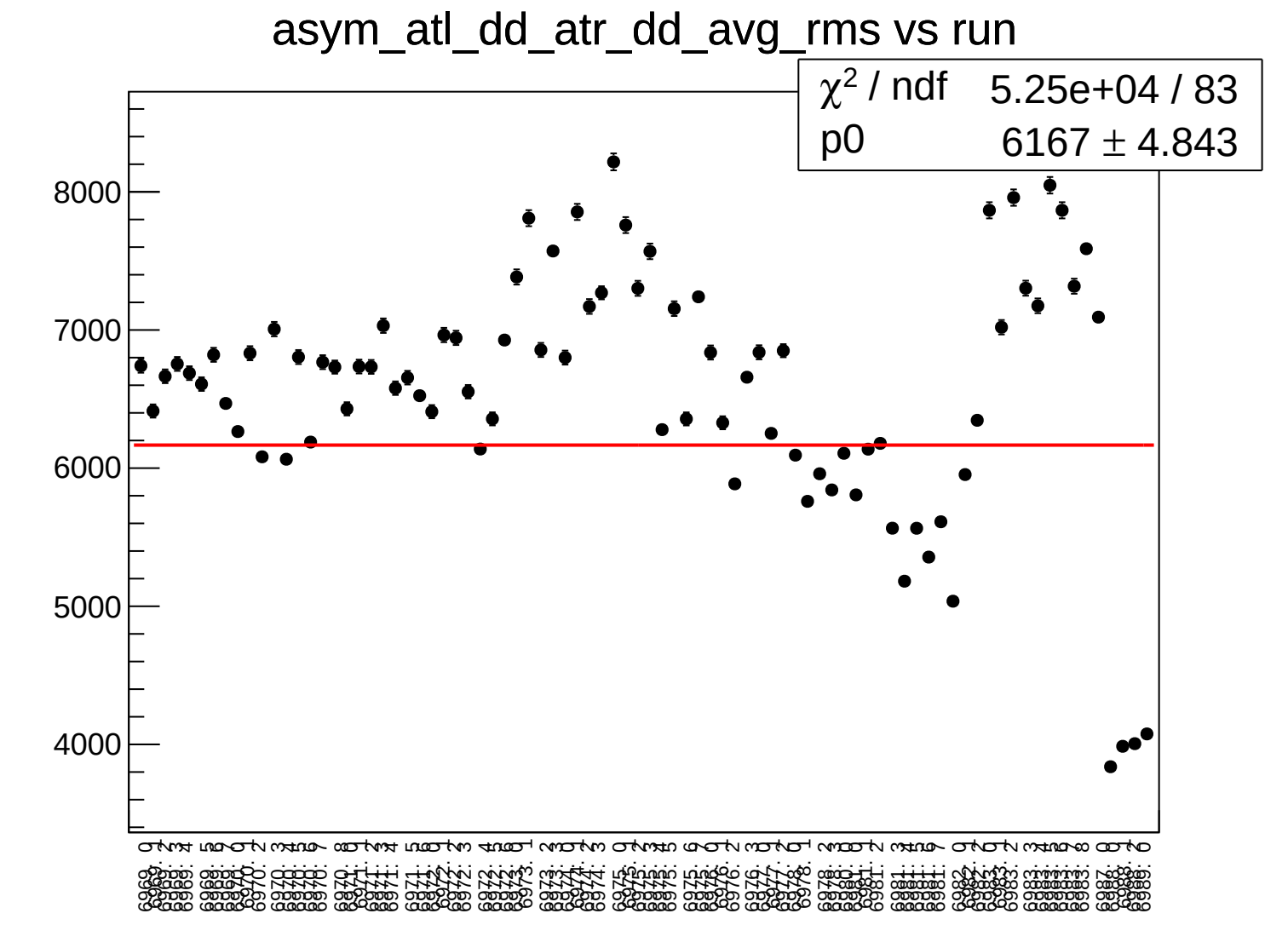

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 108.7 / 83
p0 8939 ± 7126
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −42.05
Std Dev 0
3
2
1
0
−1
−2

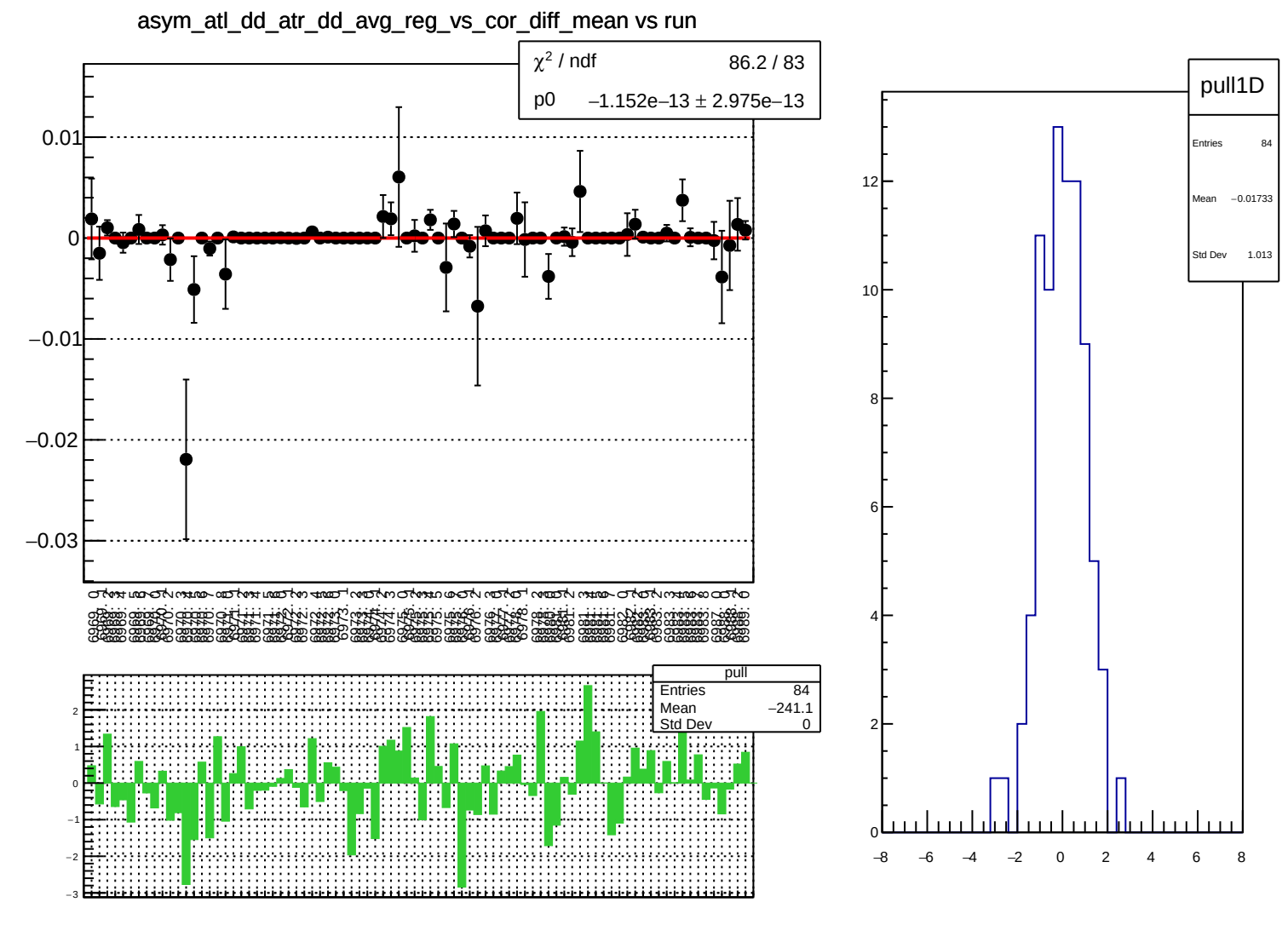

pull1D
Entries 84
Mean 0.05067
Std Dev 1.136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

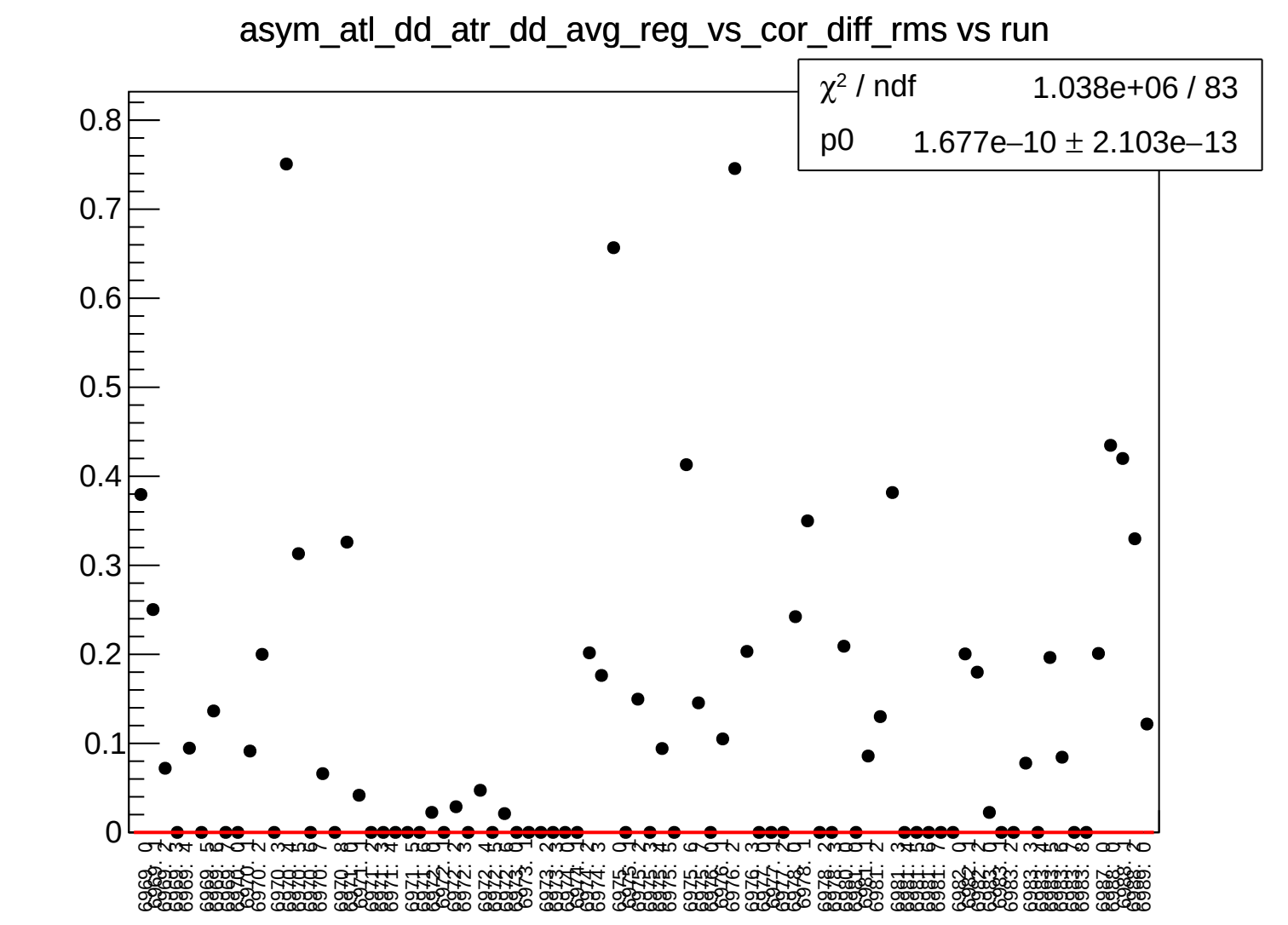

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.75e+04 / 83
p0 6405 ± 5.039
9000
8000
7000
6000
5000
4000

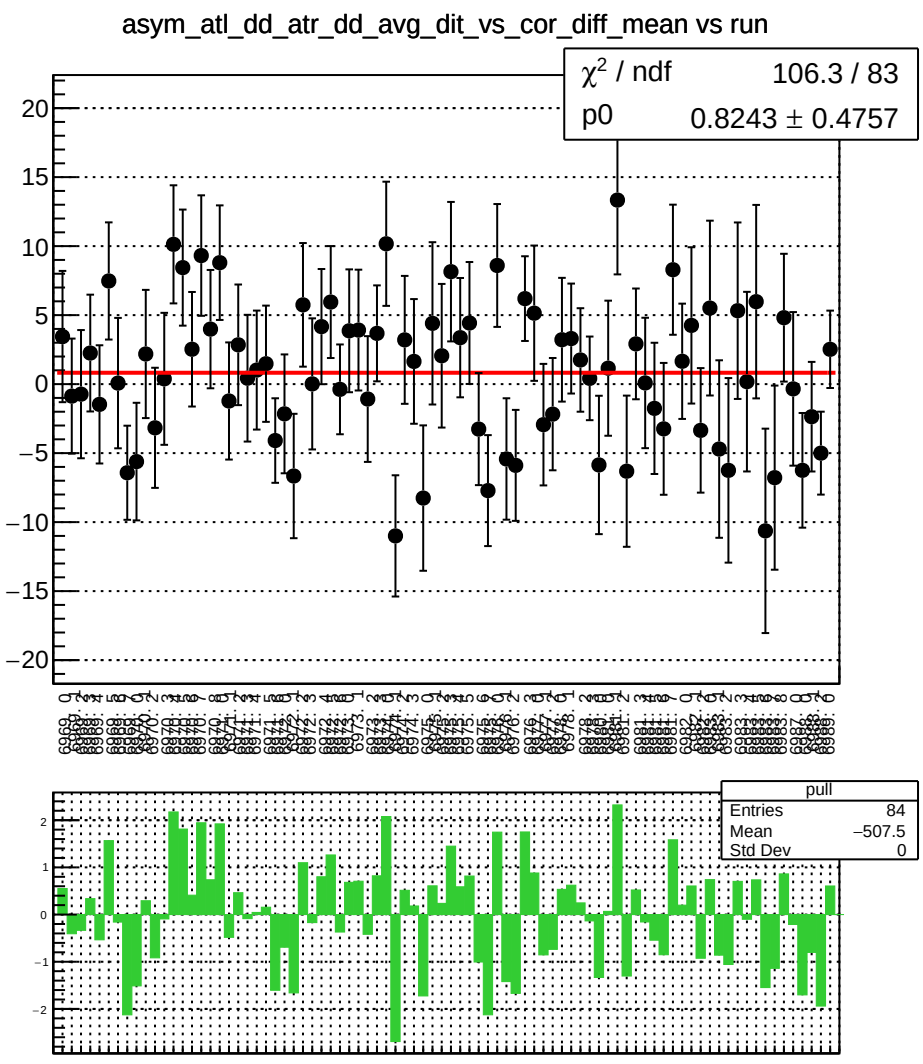

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 110.2 / 83
p0 −7092 ± 6850
pull
Entries 84
Mean −35.06
Std Dev 0

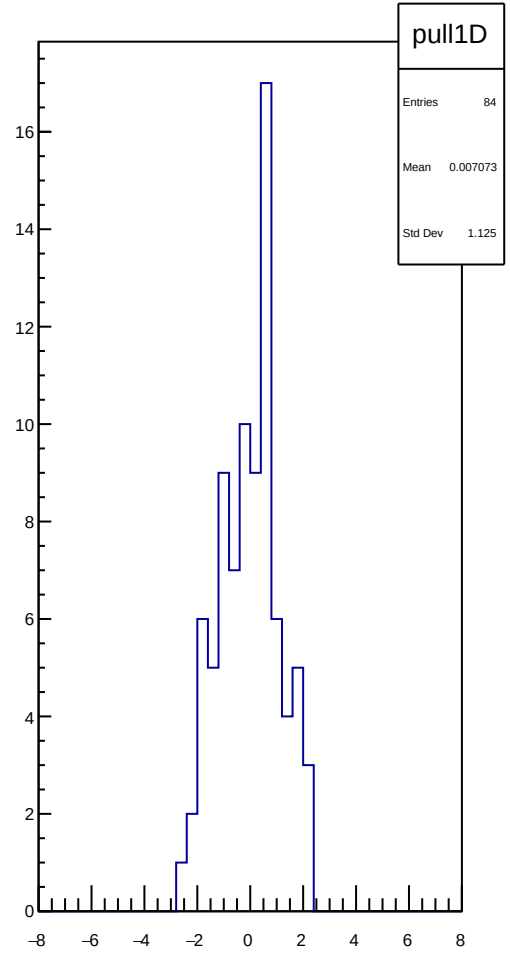

pull1D
Entries 84
Mean −0.04418
Std Dev 1.145

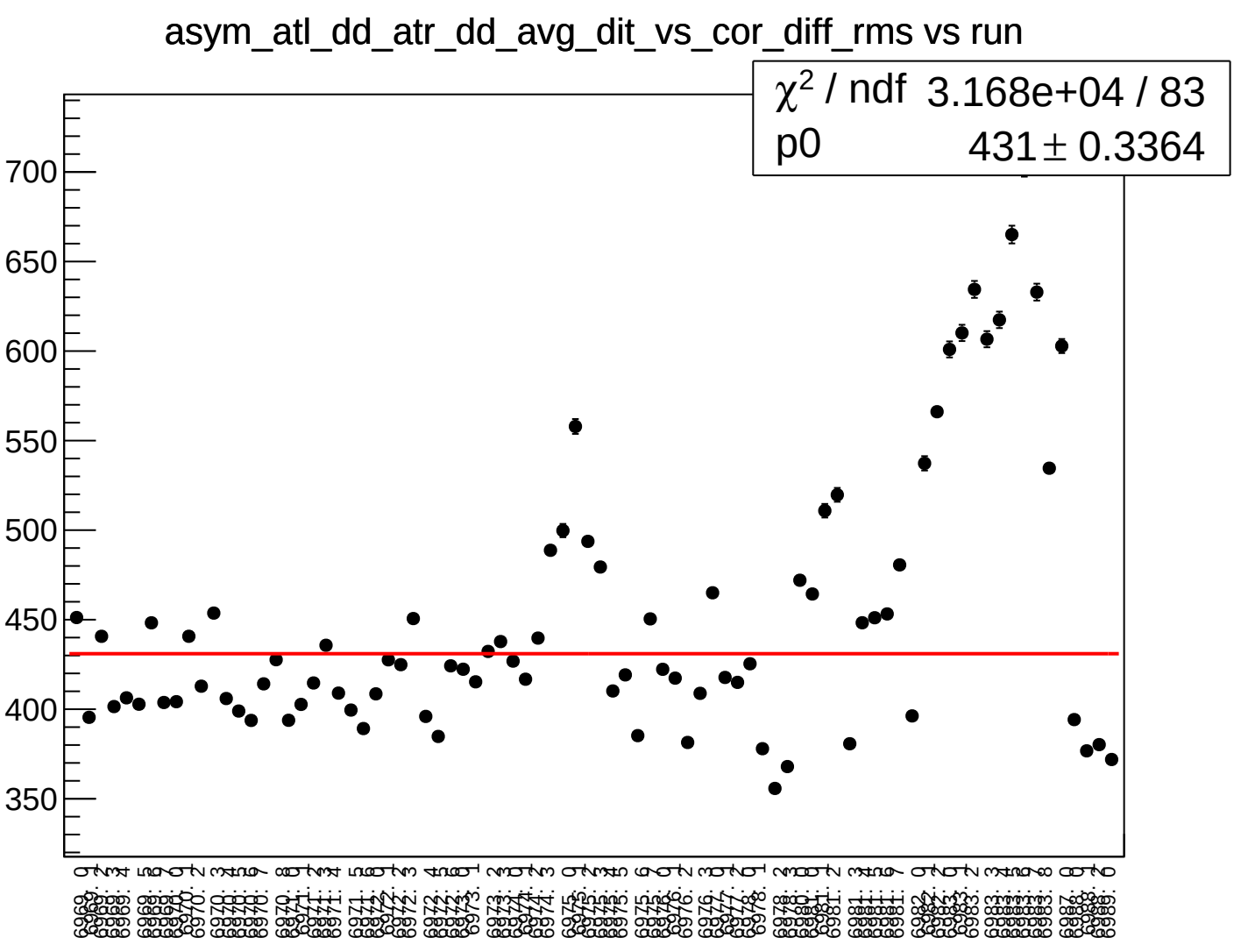

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 5.25e+04 / 83
p0 6167 ± 4.843
8000
7000
6000
5000
4000

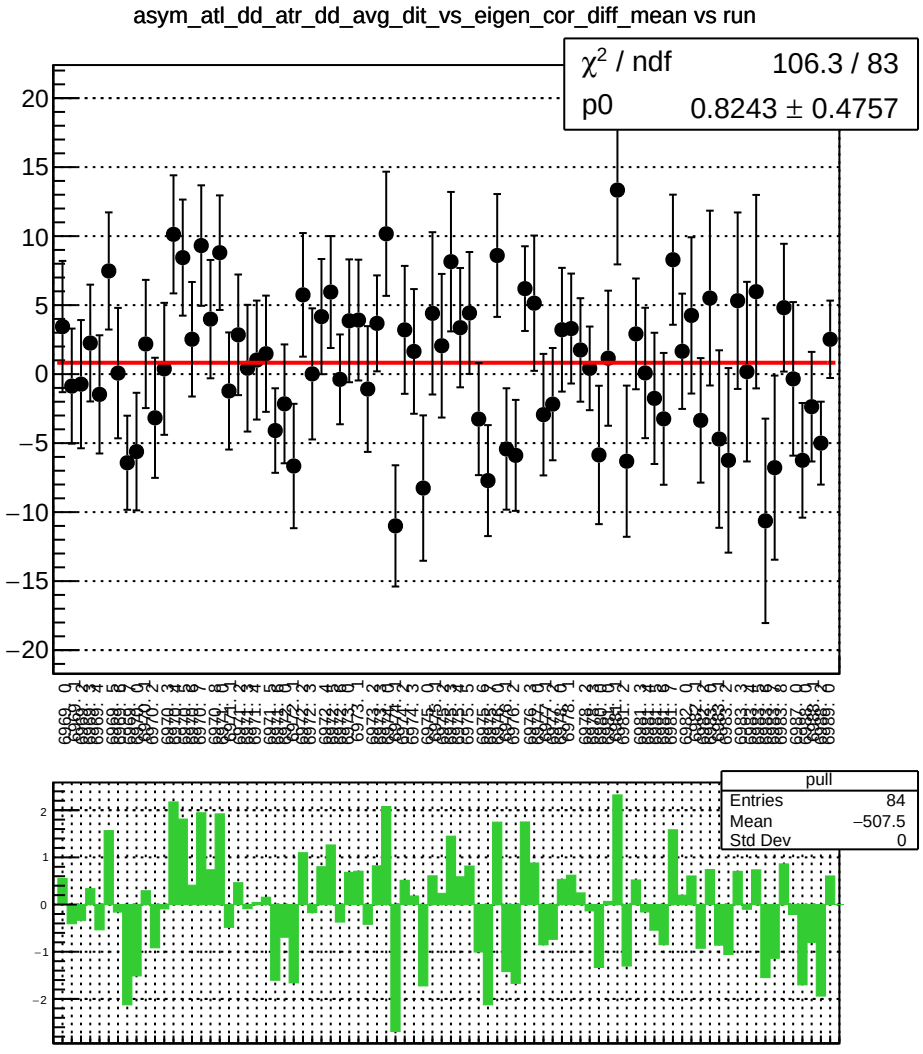

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.2 / 83
p0 −1.152e−13 ± 2.975e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean −241.1
Std Dev 0
pull1D
Entries 84
Mean −0.01733
Std Dev 1.013

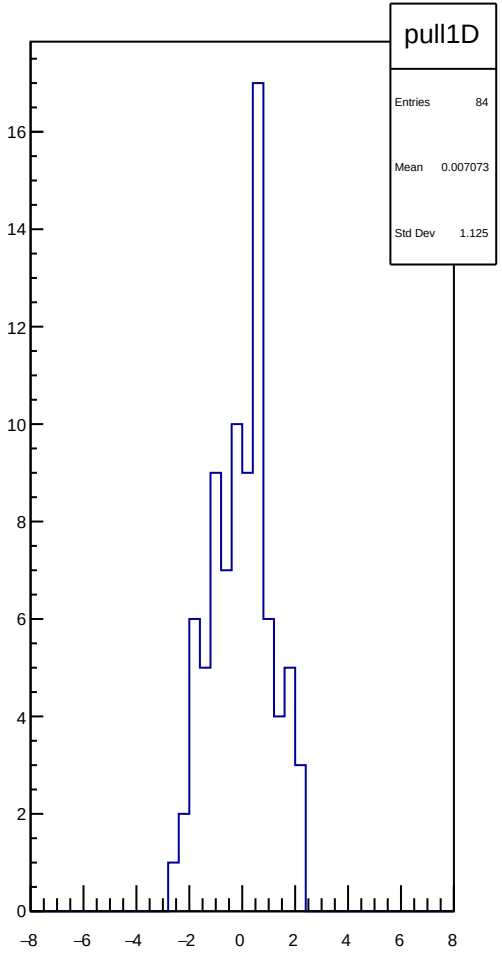

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.038e+06 / 83
p0 1.677e−10 ± 2.103e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

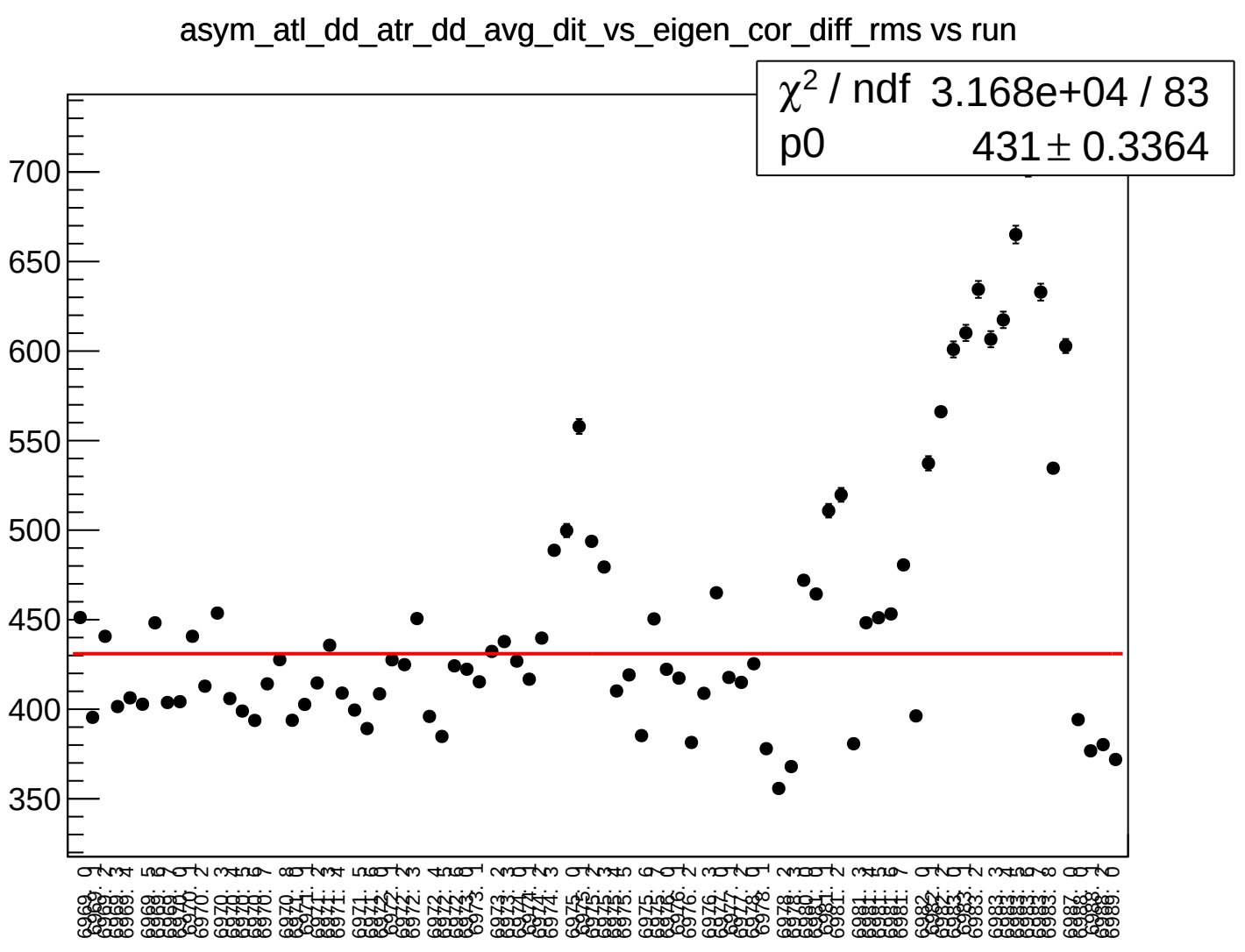

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 83
p0 0.8243 ± 0.4757
pull
Entries 84
Mean −507.5
Std Dev 0

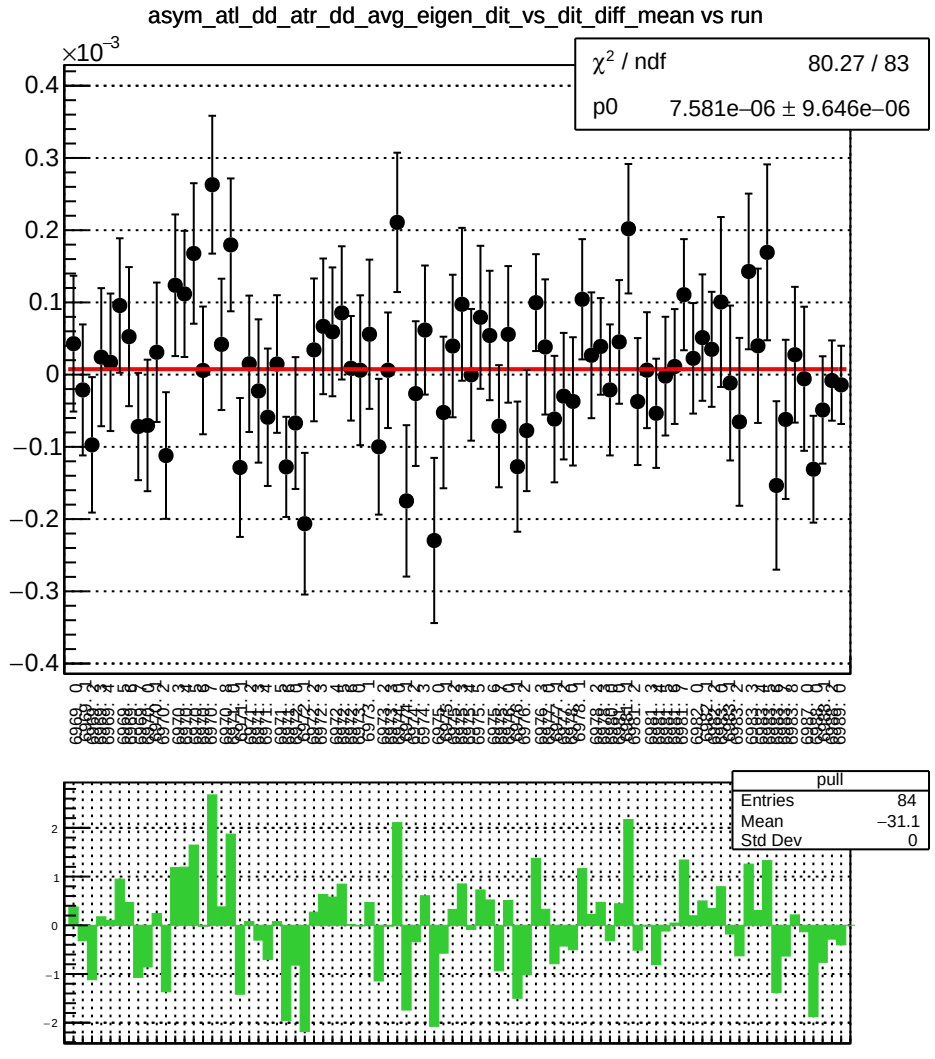

pull1D
Entries 84
Mean 0.007073
Std Dev 1.125

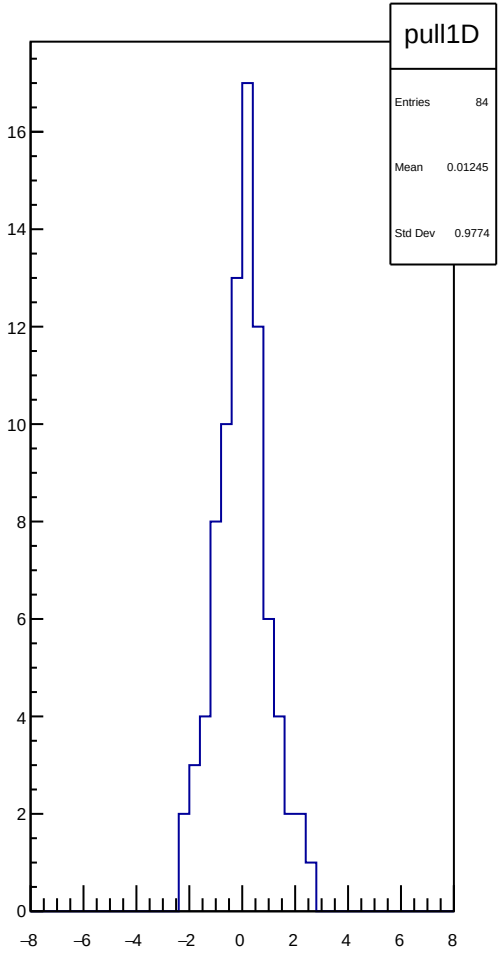

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.168e+04 / 83
p0 431 ± 0.3364
700
650
600
550
500
450
400
350

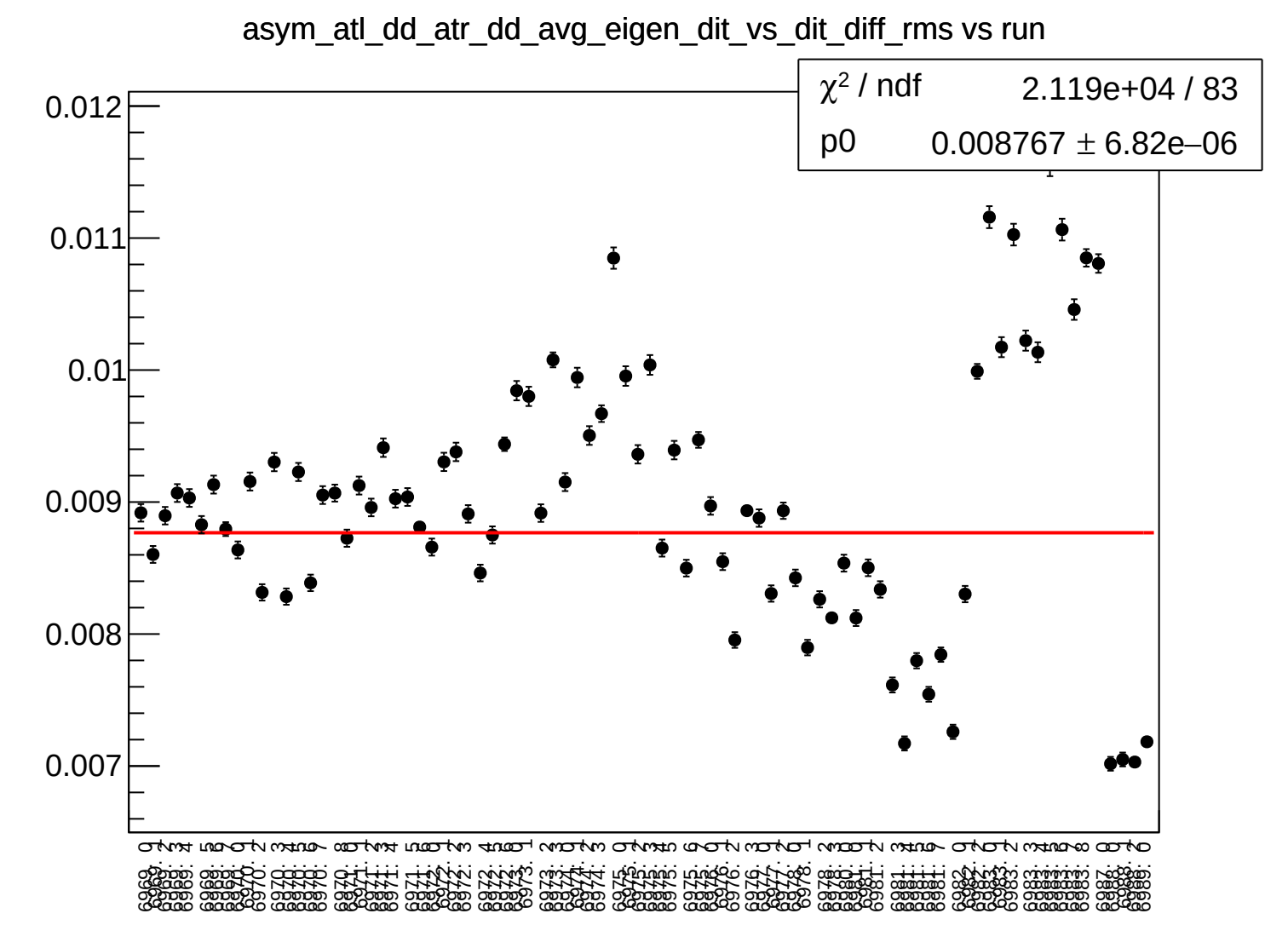

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 83
p0 0.8243 ± 0.4757
pull
Entries 84
Mean −507.5
Std Dev 0

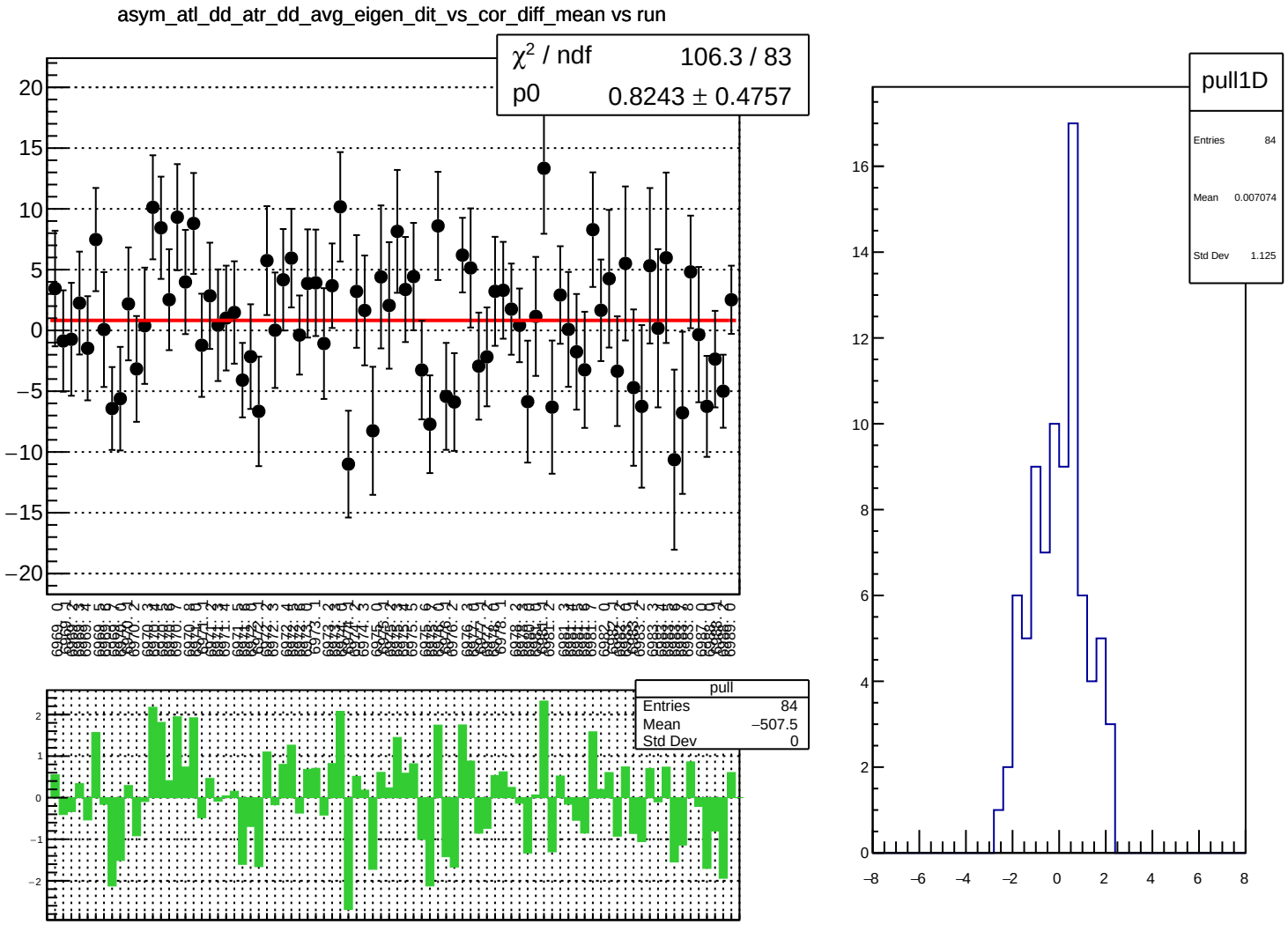

pull1D
Entries 84
Mean 0.007073
Std Dev 1.125

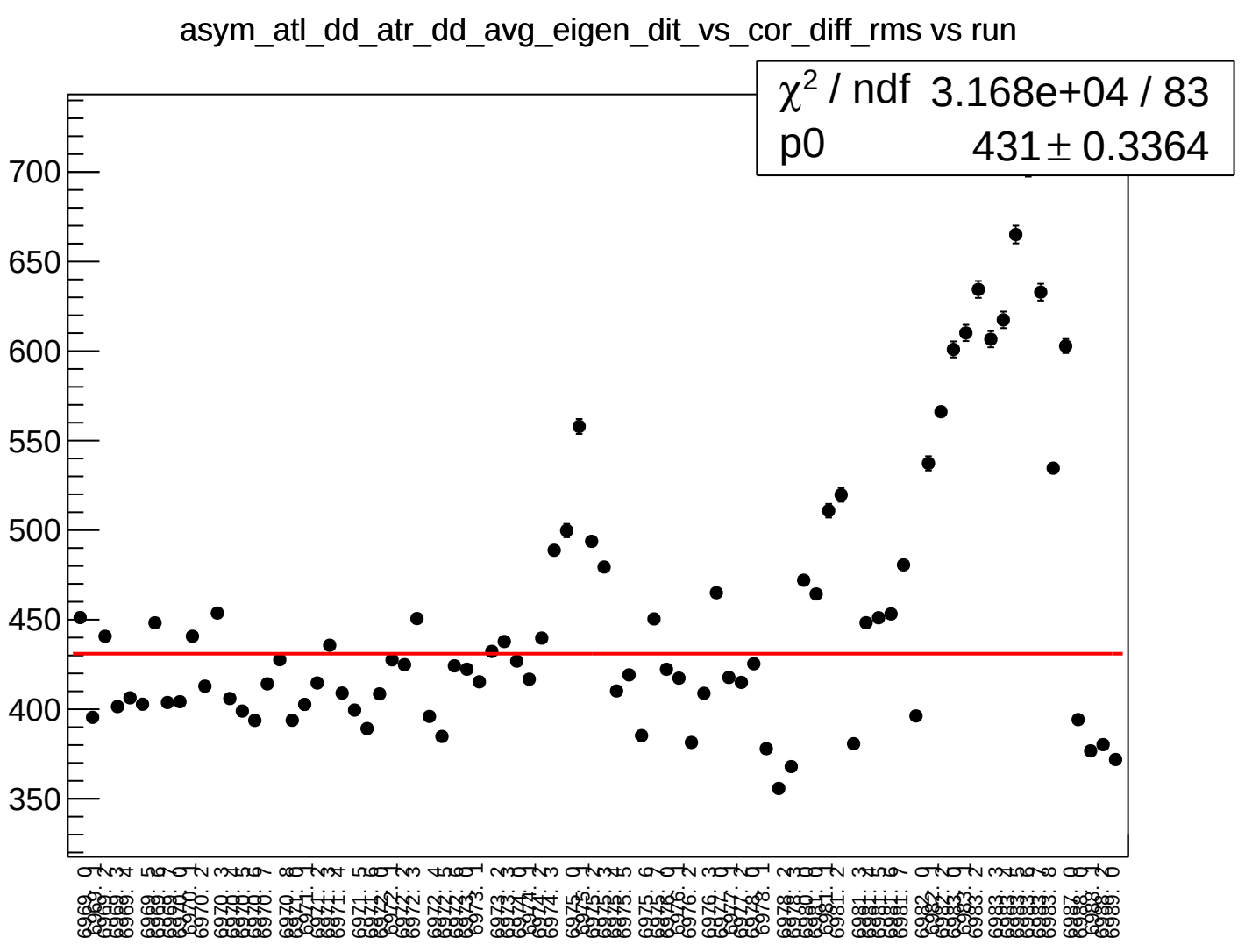

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.168e+04 / 83
p0 431 ± 0.3364
700
650
600
550
500
450
400
350

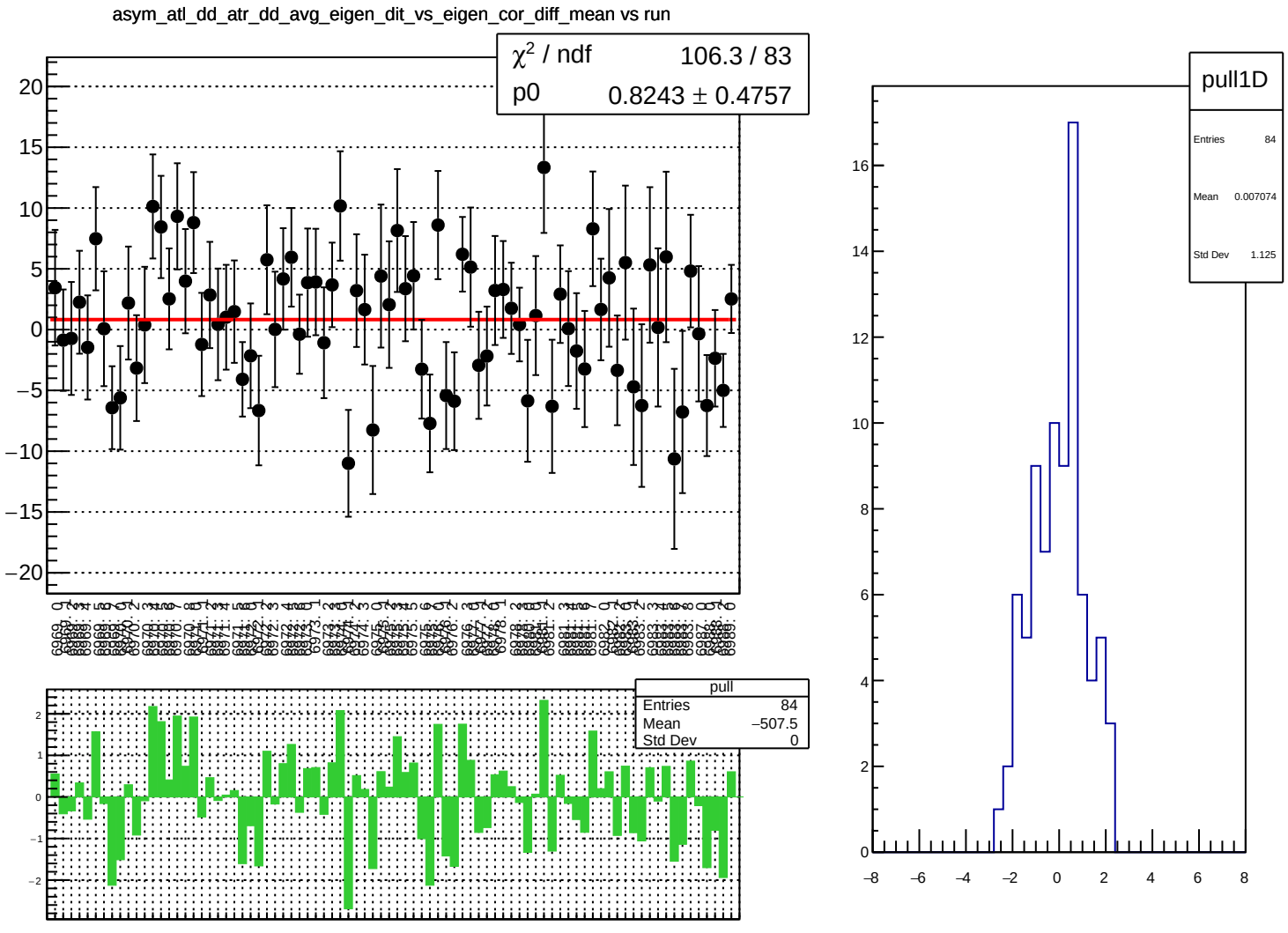

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.27 / 83
p0 7.581e−06 ± 9.646e−06
pull
Entries 84
Mean −31.1
Std Dev 0

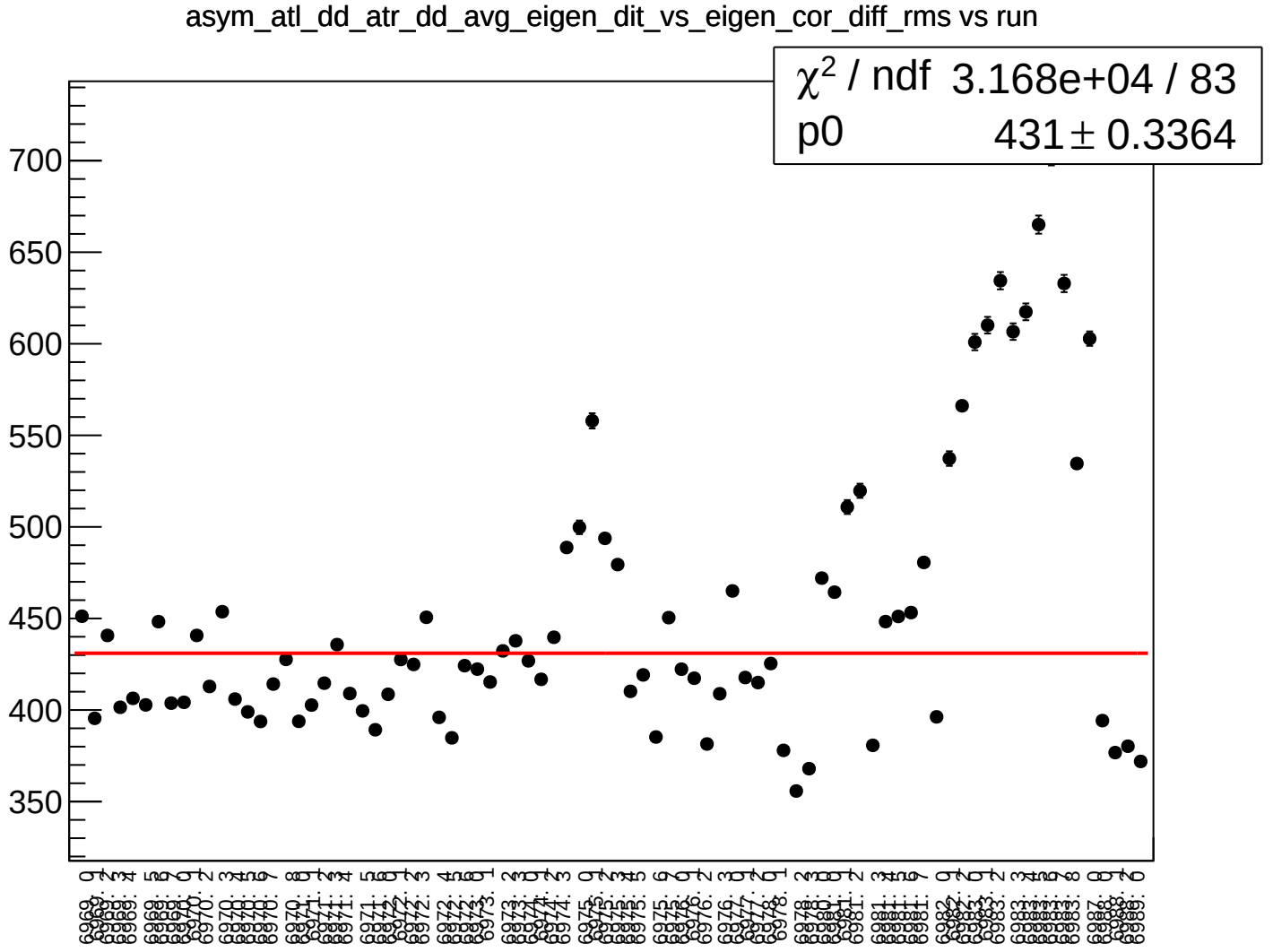

pull1D
Entries 84
Mean 0.01245
Std Dev 0.9774

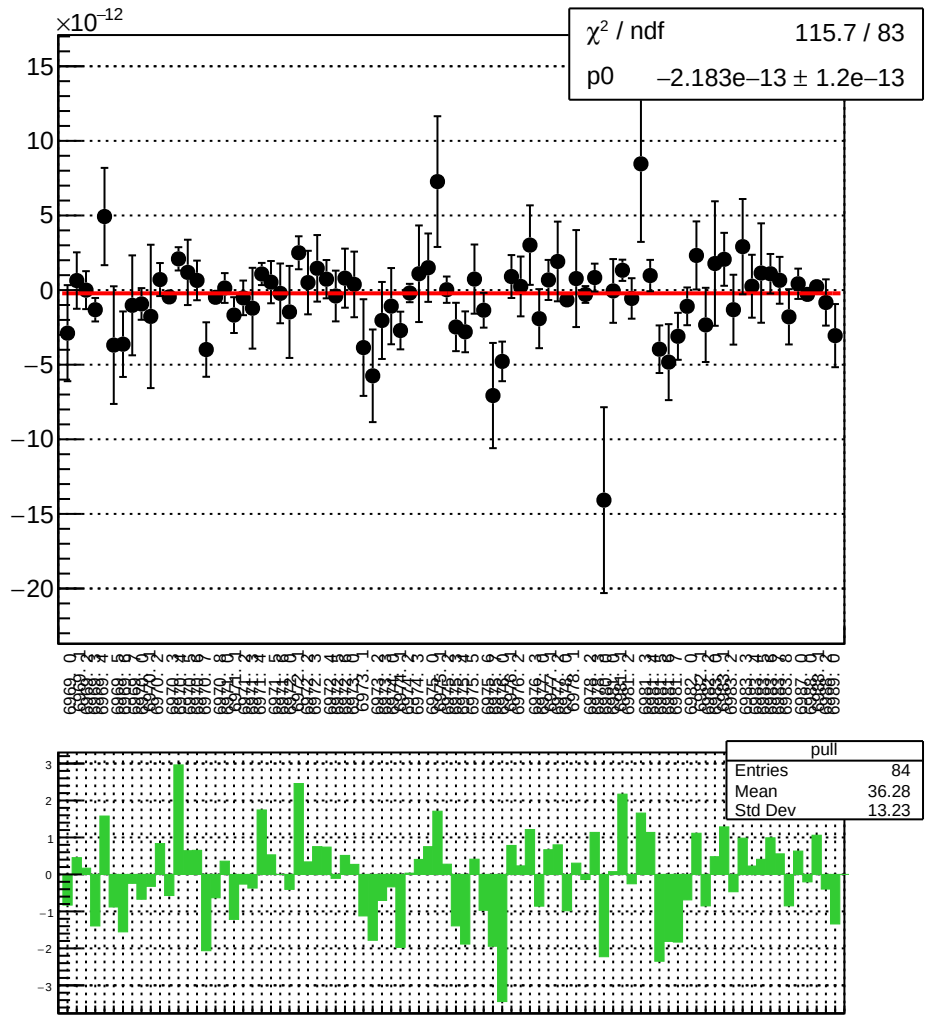

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.119e+04 / 83
p0 0.008767 ± 6.82e−06
0.012
0.011
0.01
0.009
0.008
0.007

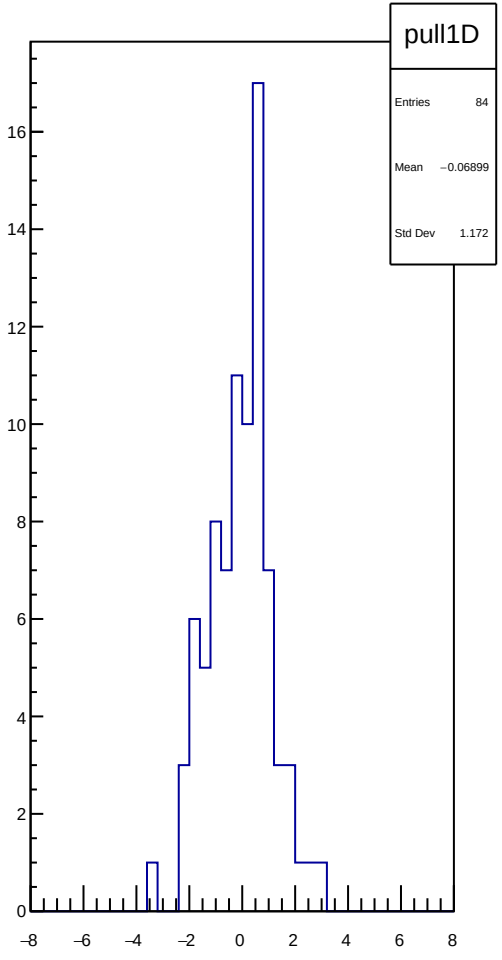

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 83
p0 0.8243 ± 0.4757
pull
Entries 84
Mean −507.5
Std Dev 0
pull1D
Entries 84
Mean 0.007074
Std Dev 1.125

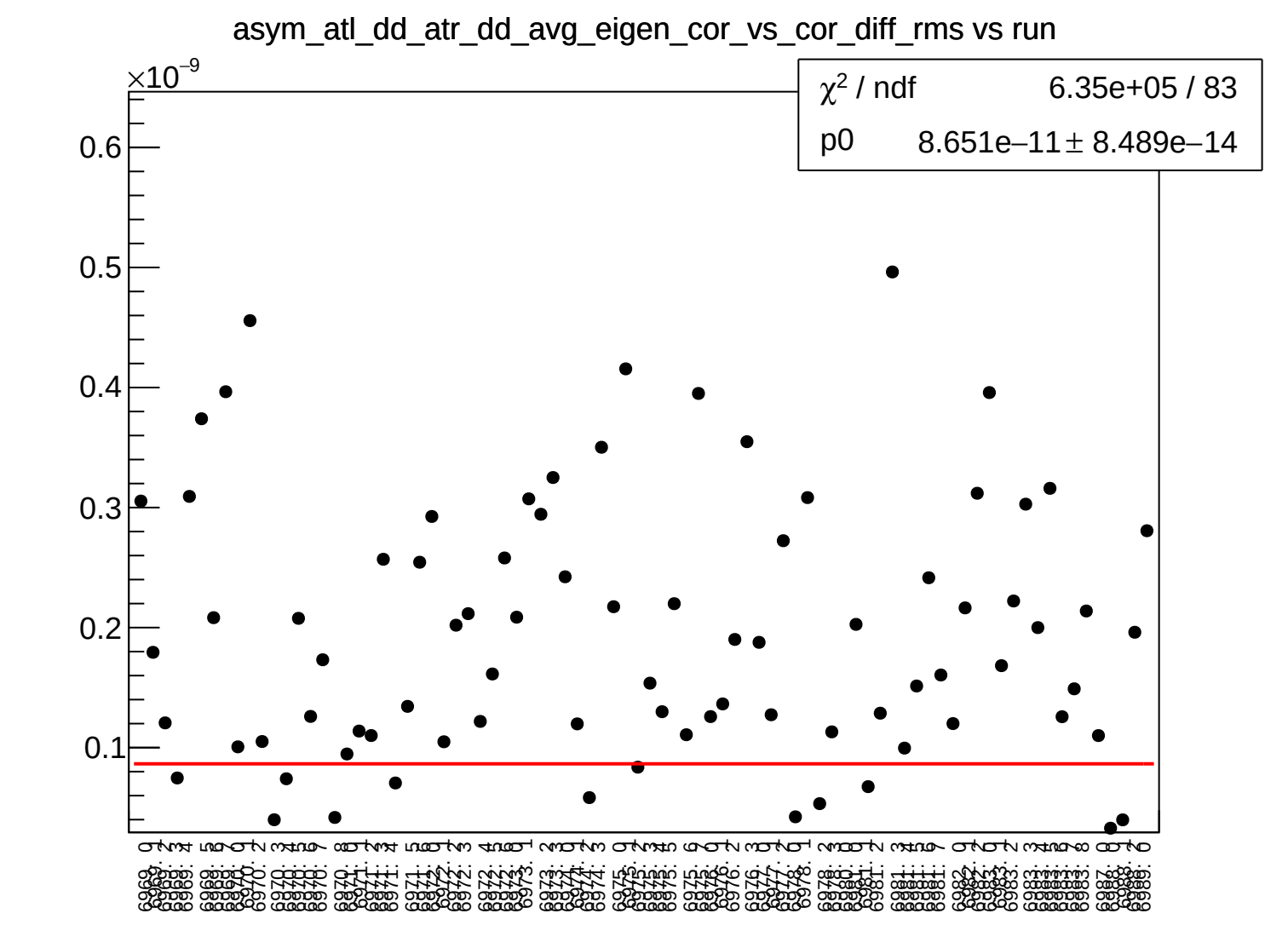

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.168e+04 / 83
p0 431 ± 0.3364
700
650
600
550
500
450
400
350

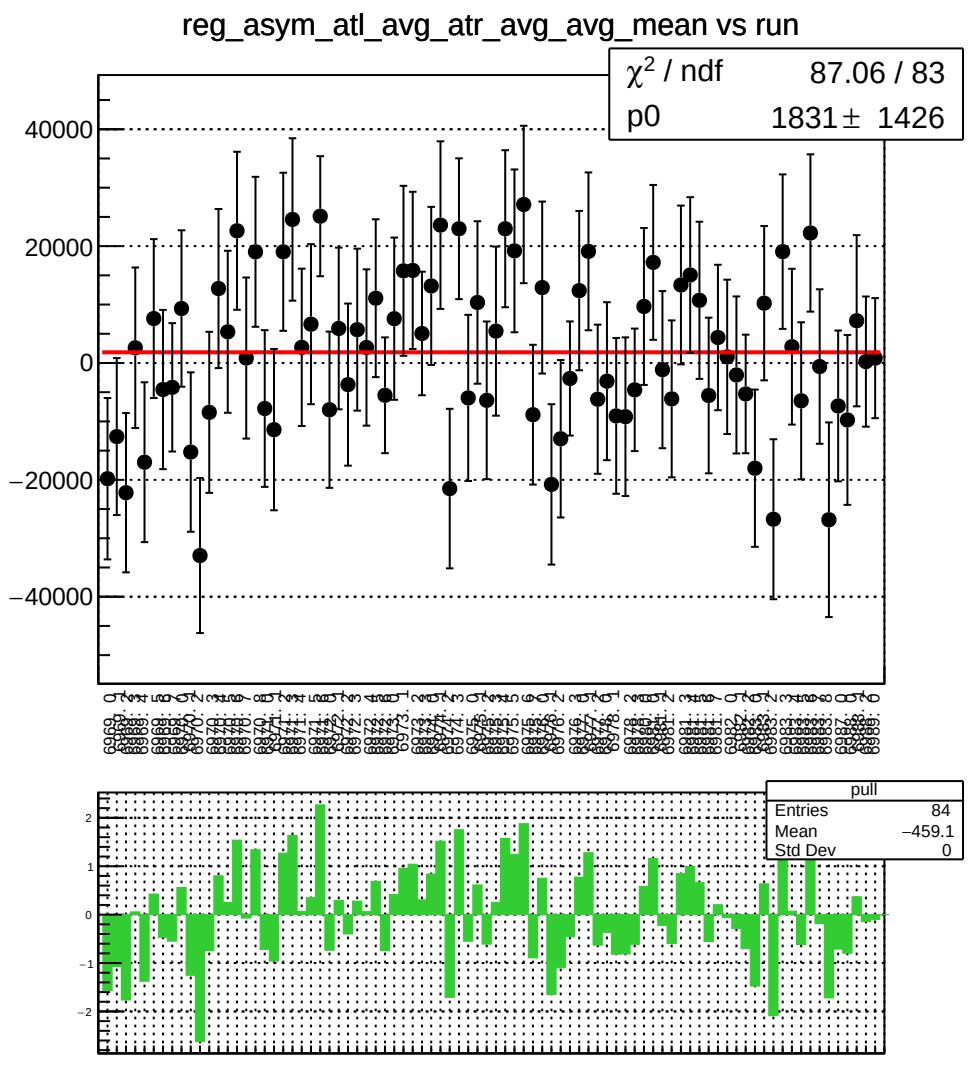

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 83
p0 0.8243 ± 0.4757
pull
Entries 84
Mean −507.5
Std Dev 0
pull1D
Entries 84
Mean 0.007074
Std Dev 1.125

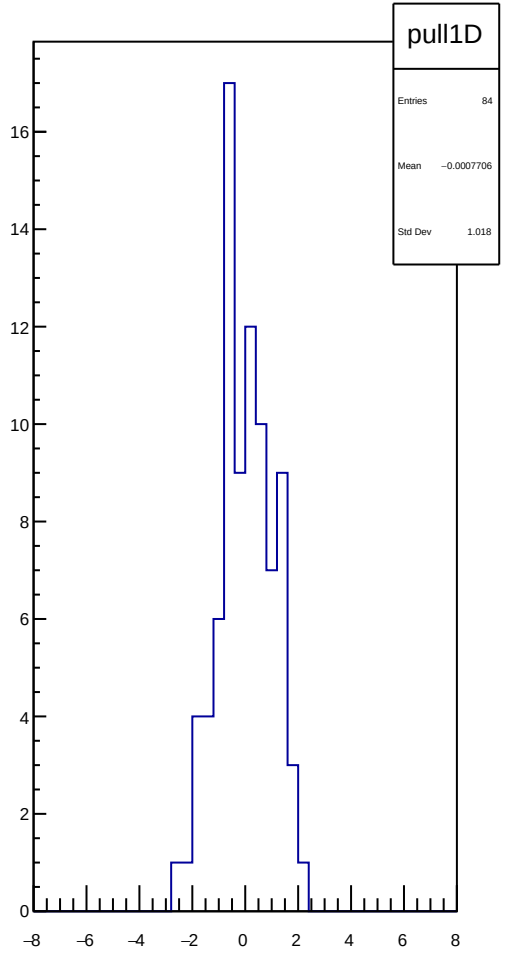

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.168e+04 / 83
p0 431 ± 0.3364
700
650
600
550
500
450
400
350

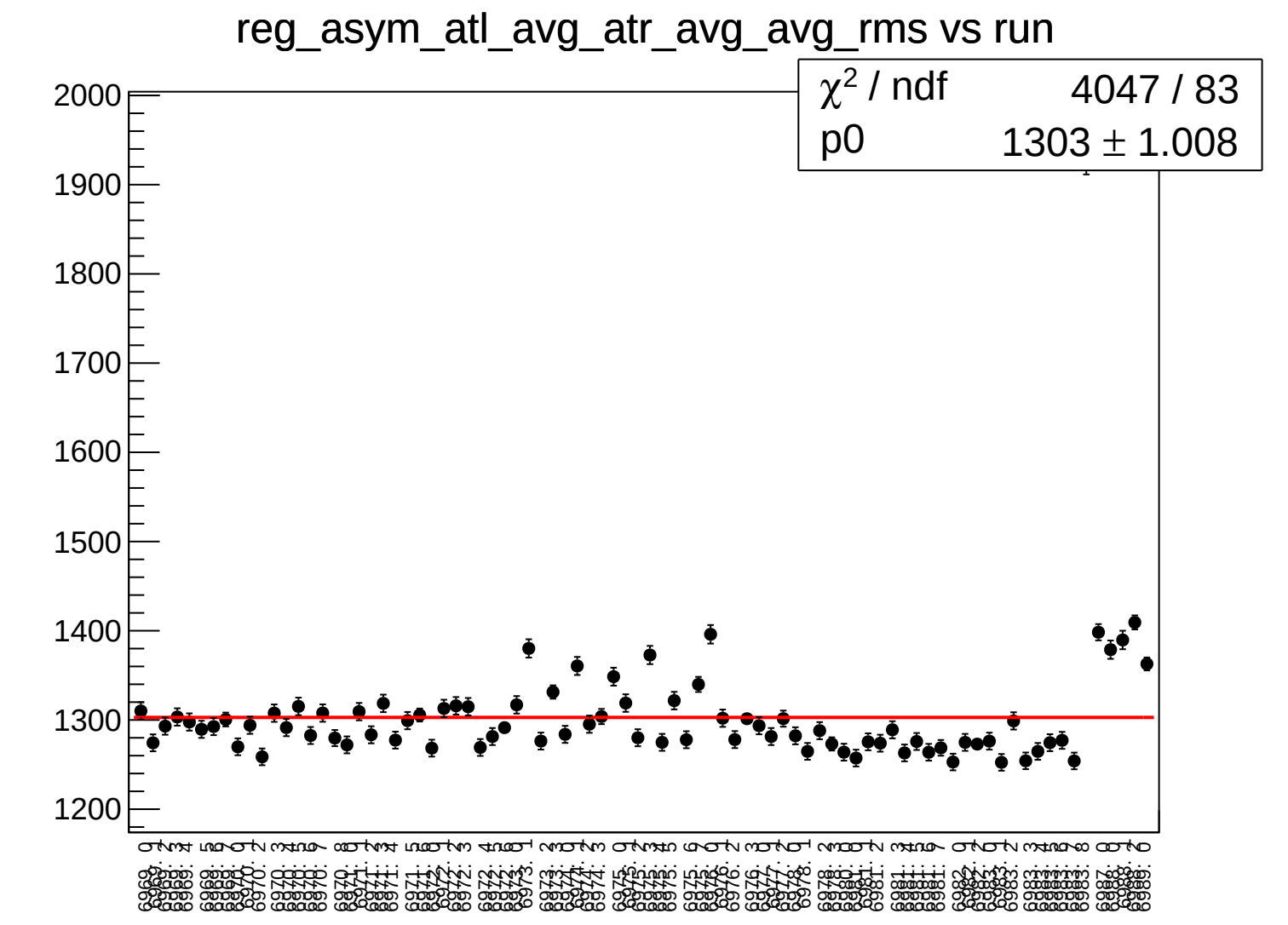

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.7 / 83
p0 −2.183e−13 ± 1.2e−13
pull
Entries 84
Mean 36.28
Std Dev 13.23

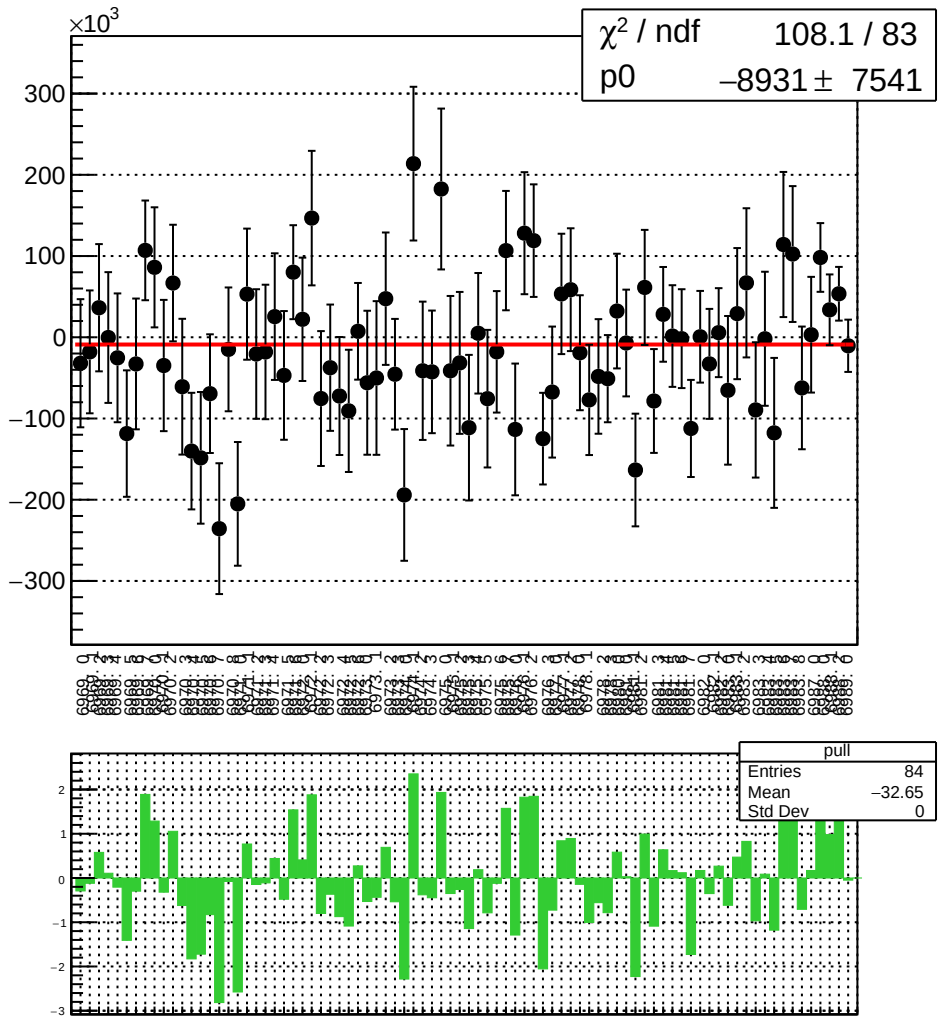

pull1D
Entries 84
Mean −0.06899
Std Dev 1.172

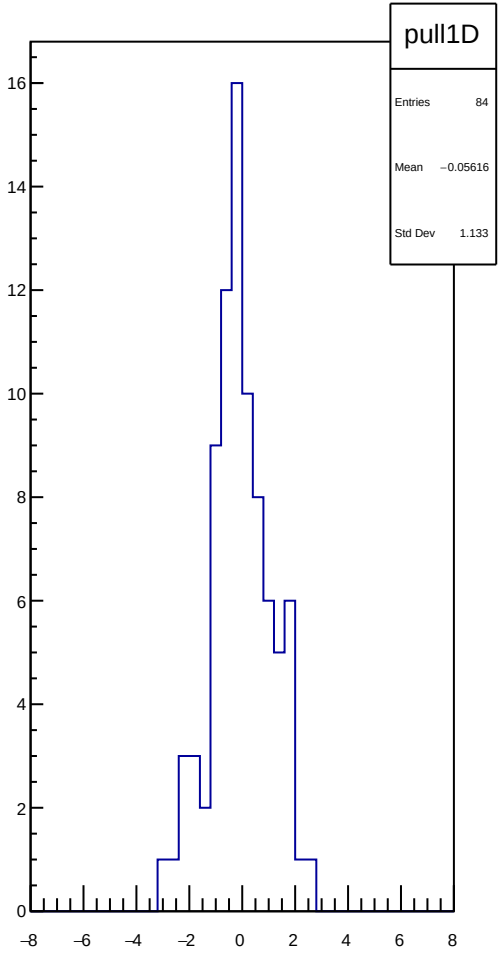

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.35e+05 / 83
p0 8.651e−11 ± 8.489e−14
0.6
0.5
0.4
0.3
0.2
0.1

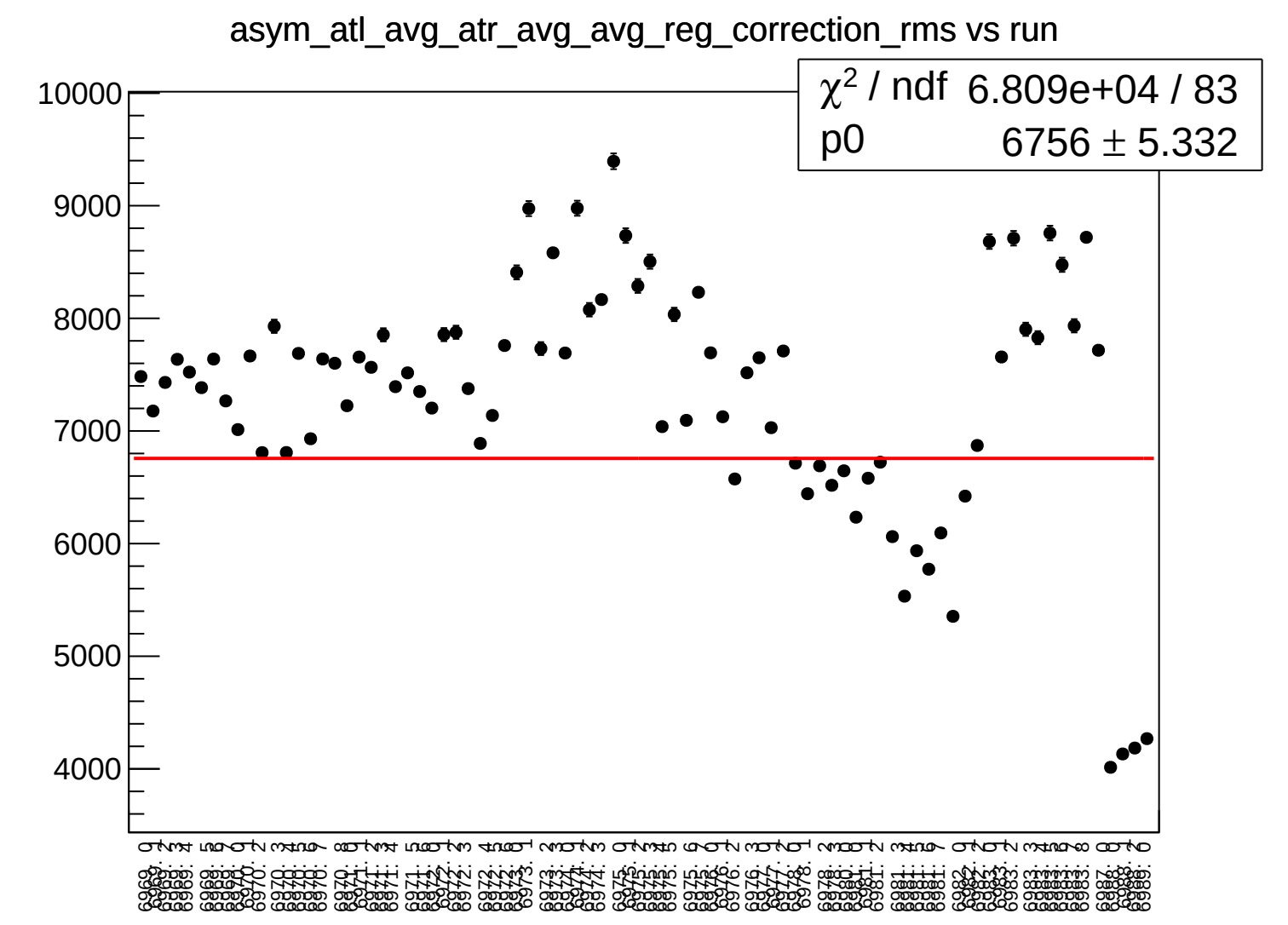

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 87.06 / 83
p0 1831 ± 1426
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −459.1
Std Dev 0
2
1
0
−1
−2

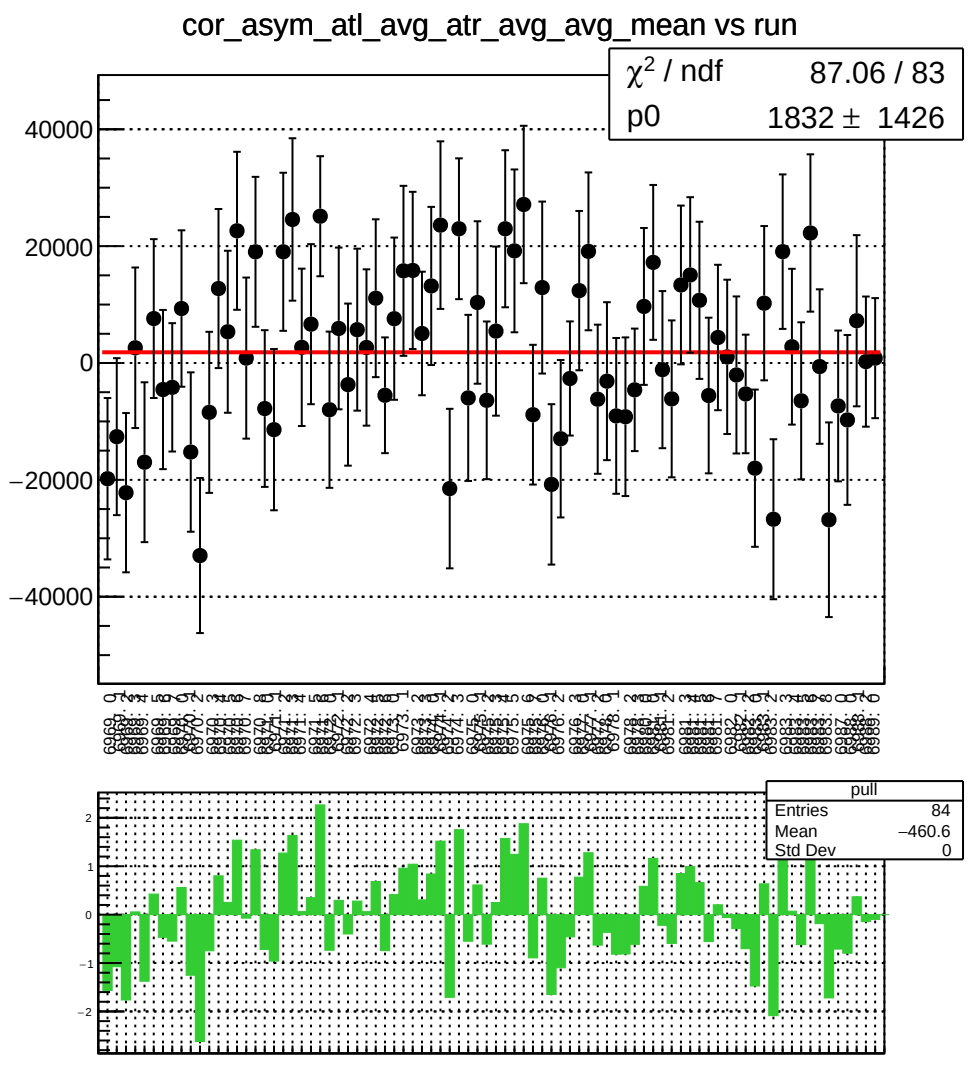

pull1D
Entries 84
Mean −0.0007706
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

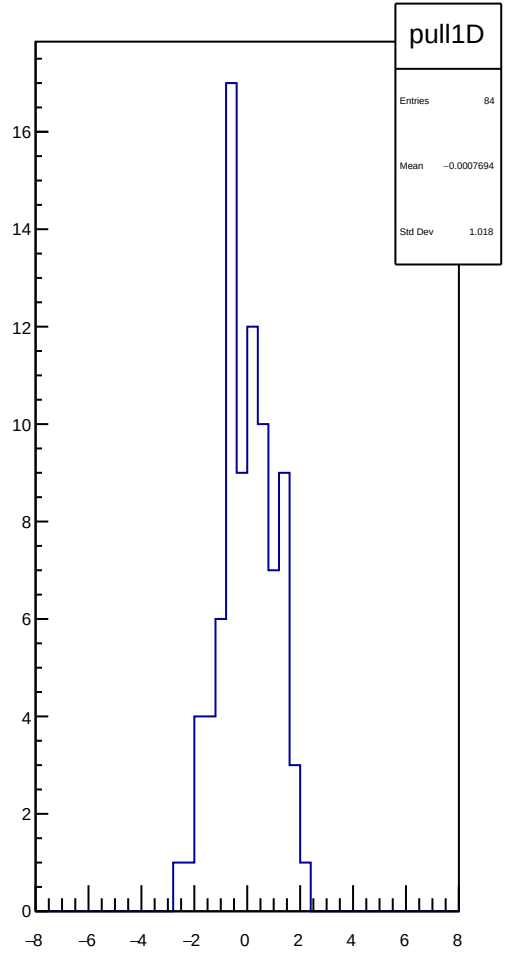

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4047 / 83
p0 1303 ± 1.008
2000
1900
1800
1700
1600
1500
1400
1300
1200

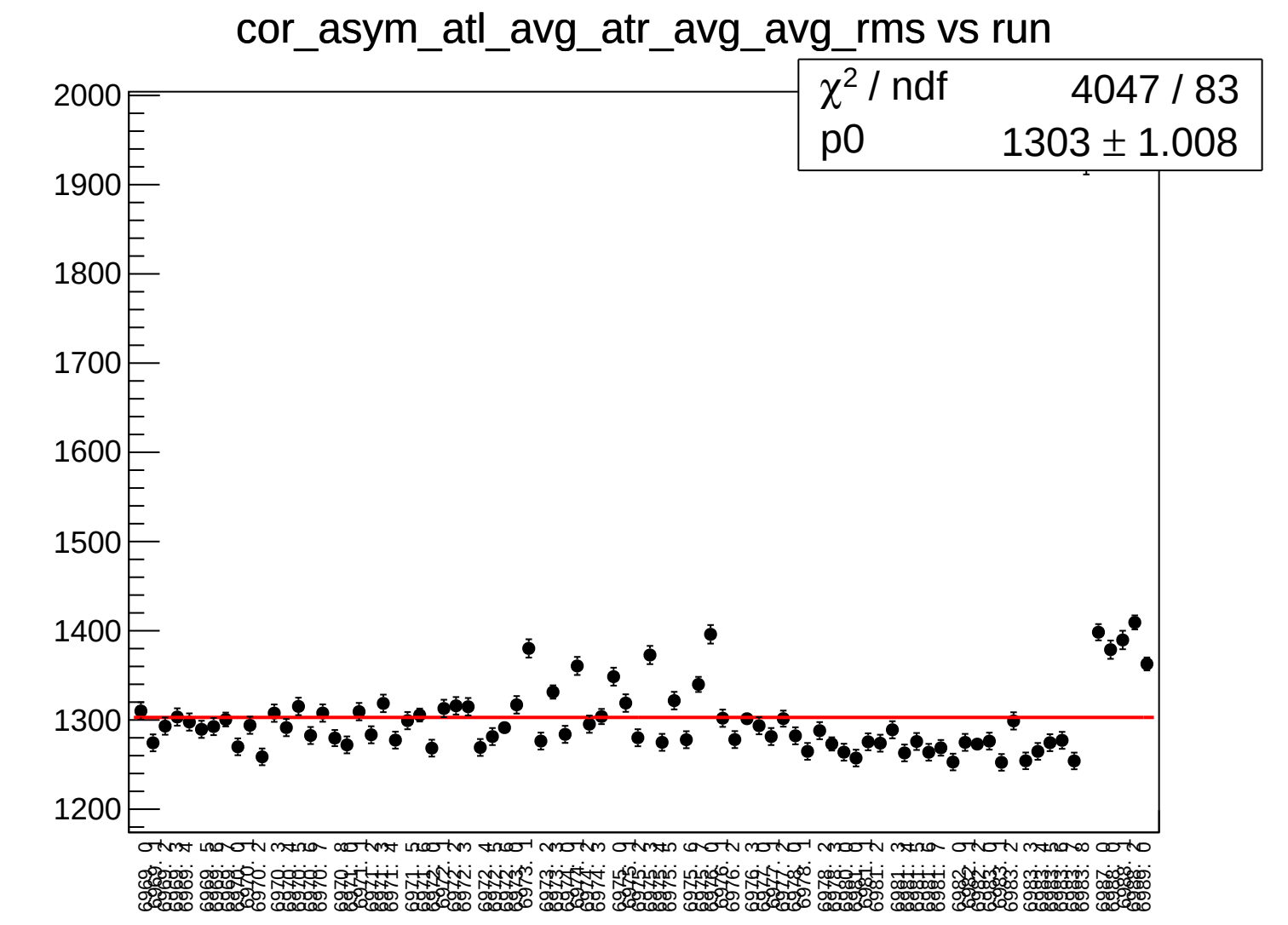

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 108.1 / 83
p0 −8931 ± 7541
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −32.65
Std Dev 0
2
1
0
−1
−2
−3

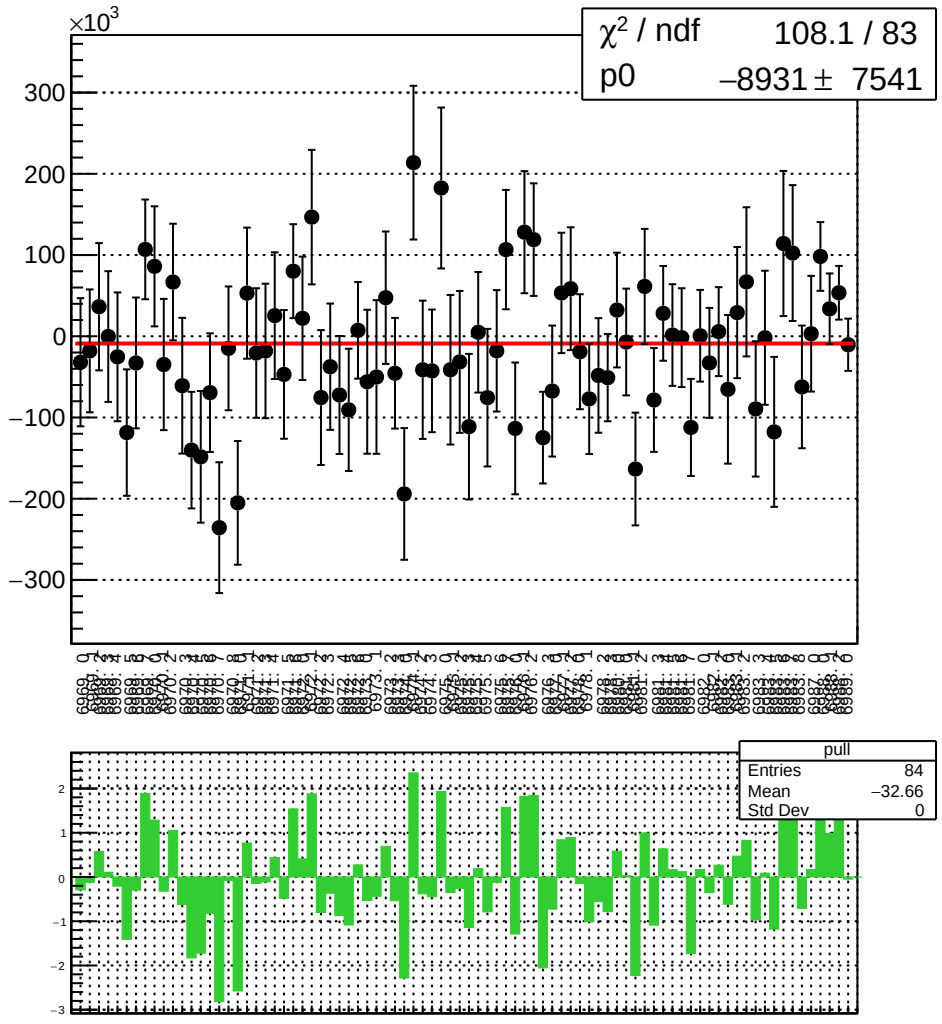

pull1D
Entries 84
Mean −0.05616
Std Dev 1.133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

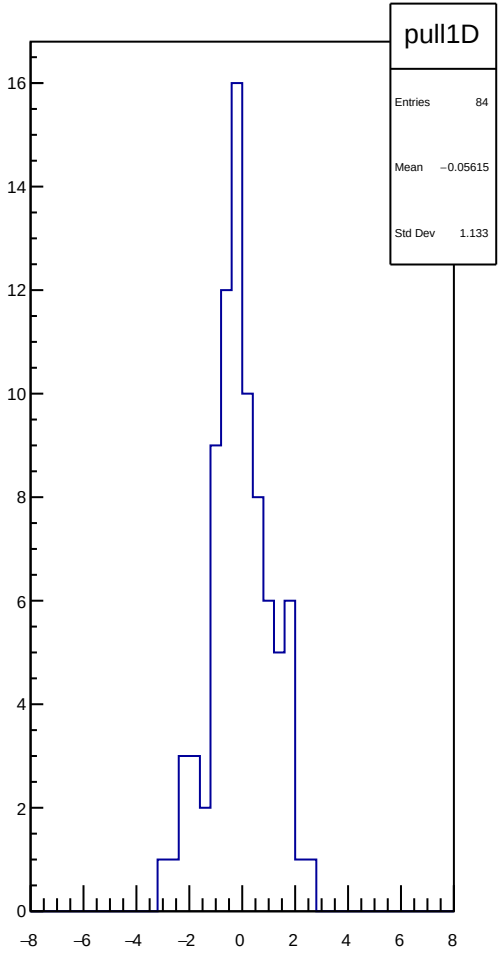

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 6.809e+04 / 83
p0 6756 ± 5.332
10000
9000
8000
7000
6000
5000
4000

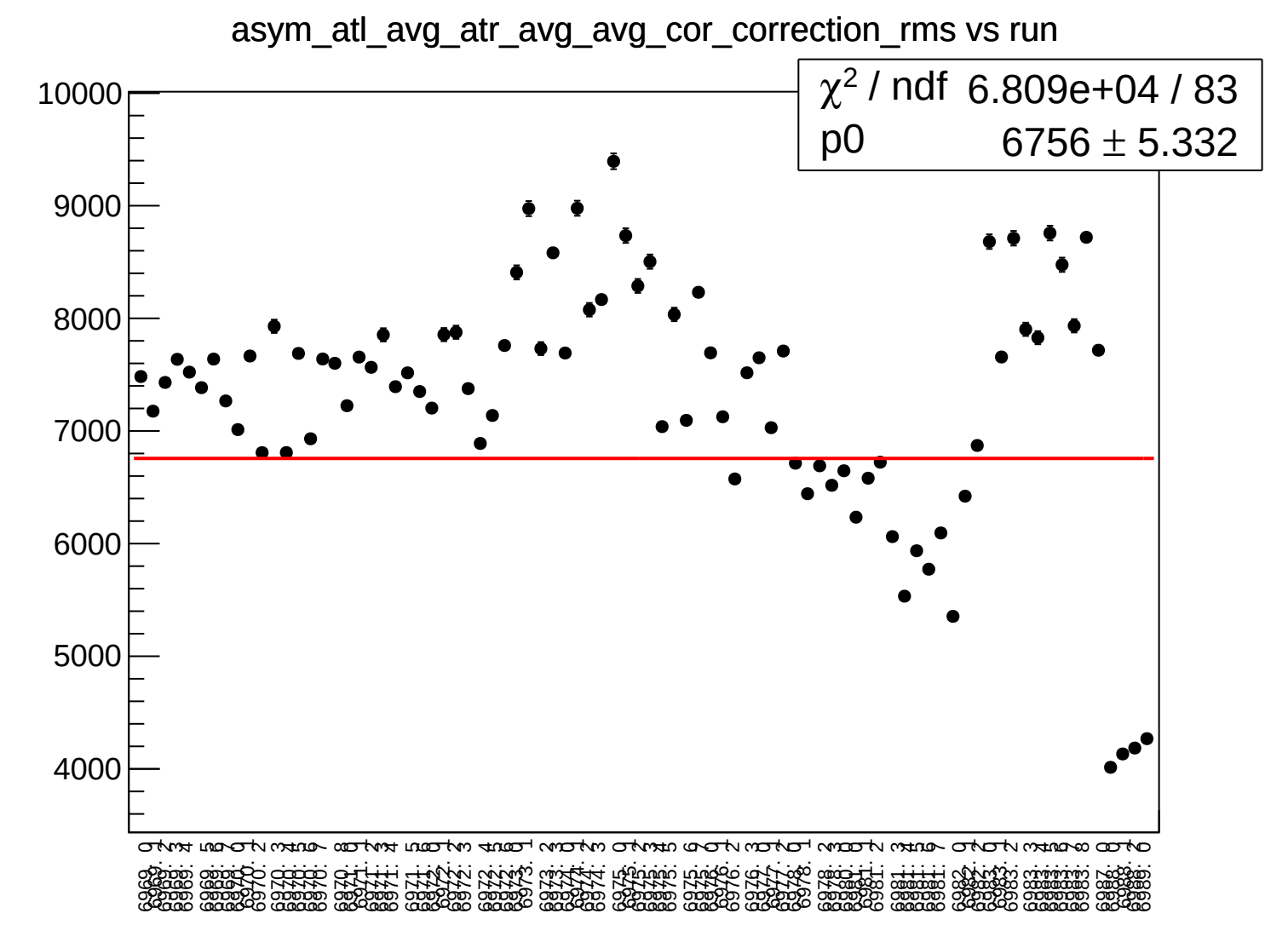

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 87.06 / 83
p0 1832 ± 1426
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −460.6
Std Dev 0
2
1
0
−1
−2

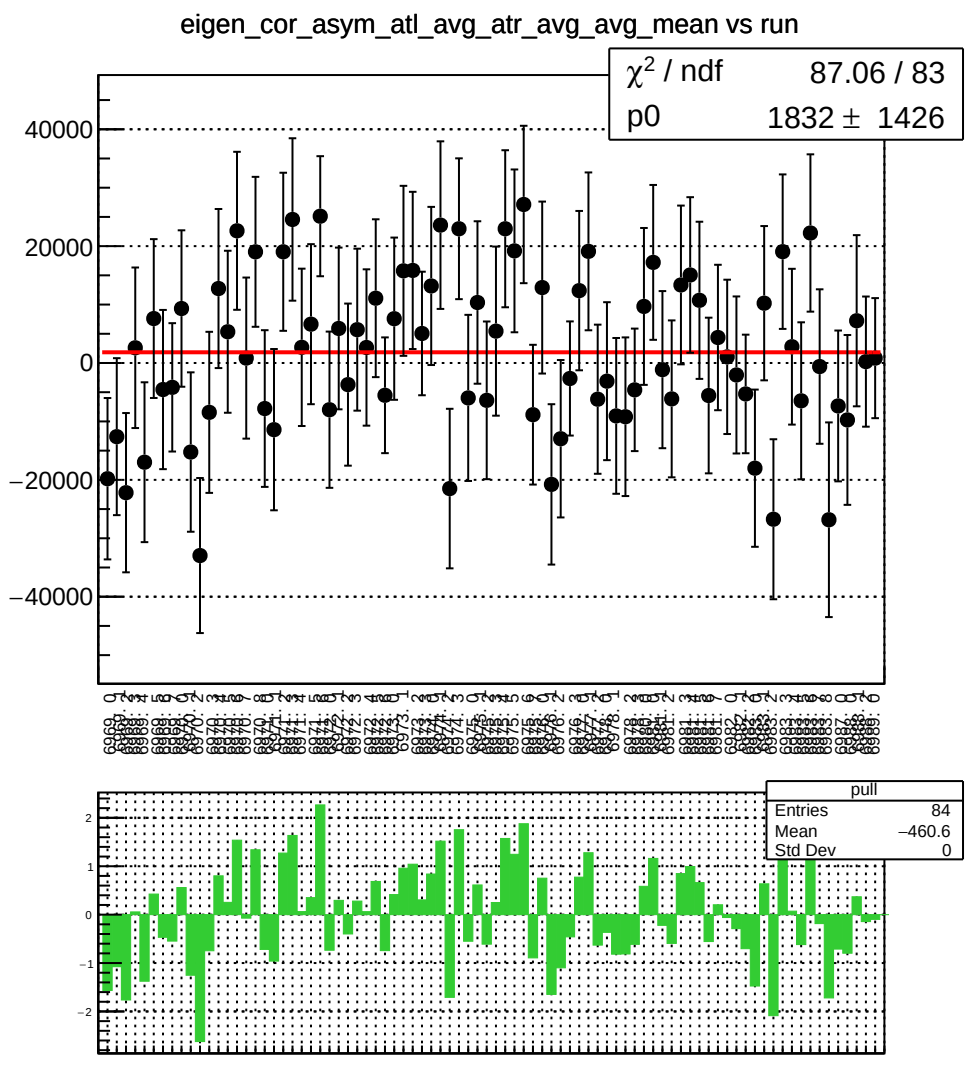

pull1D
Entries 84
Mean −0.0007694
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

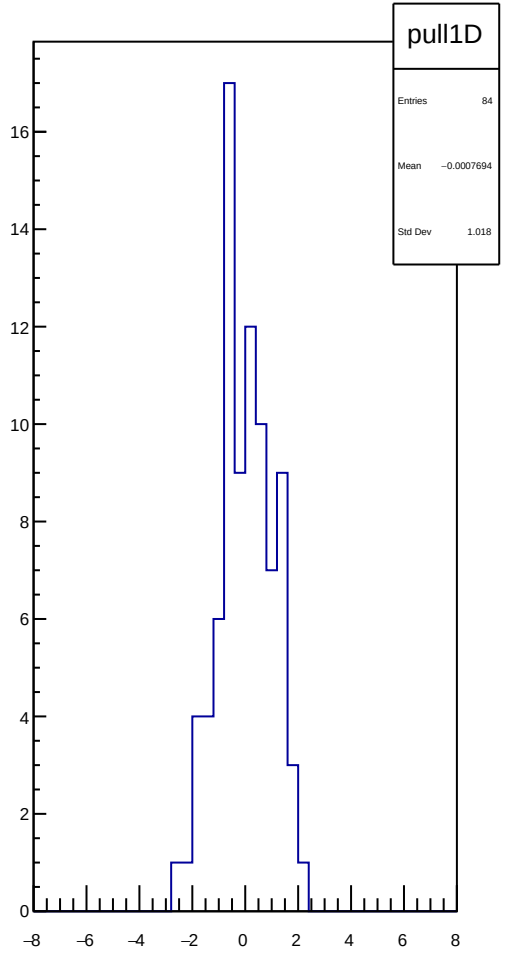

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4047 / 83
p0 1303 ± 1.008
2000
1900
1800
1700
1600
1500
1400
1300
1200

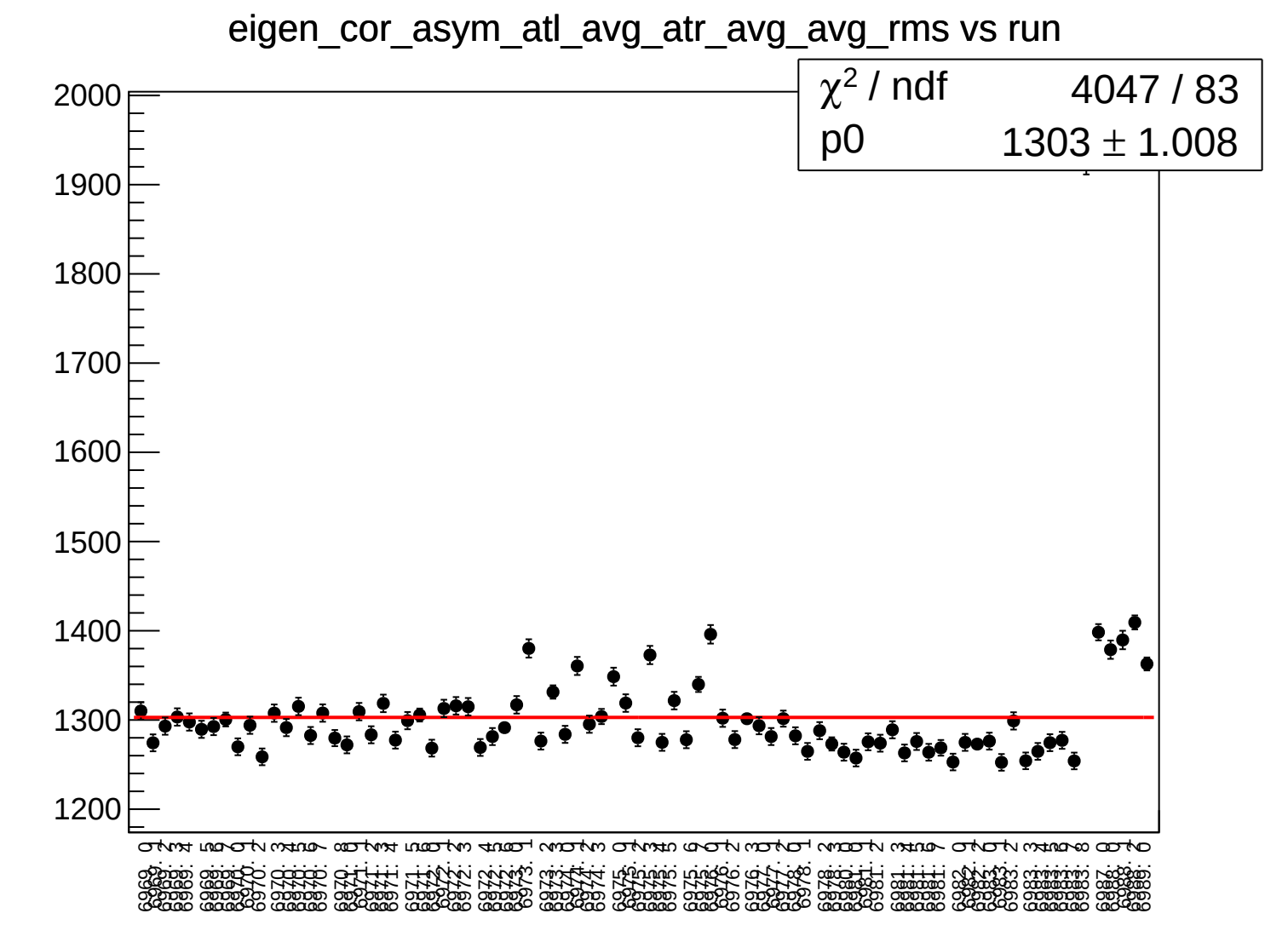

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 108.1 / 83
p0 −8931 ± 7541
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −32.66
Std Dev 0
2
1
0
−1
−2
−3

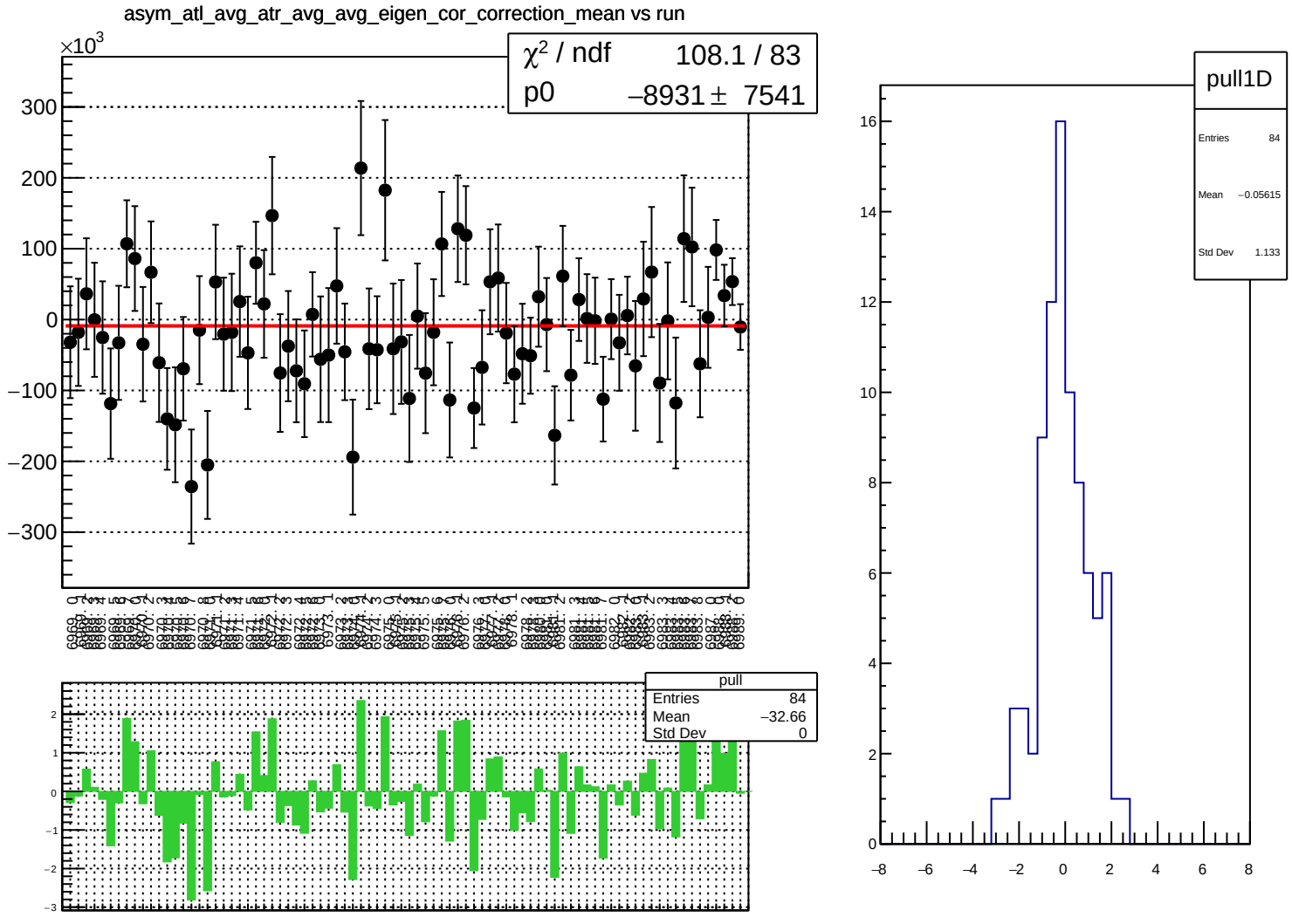

pull1D
Entries 84
Mean −0.05615
Std Dev 1.133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

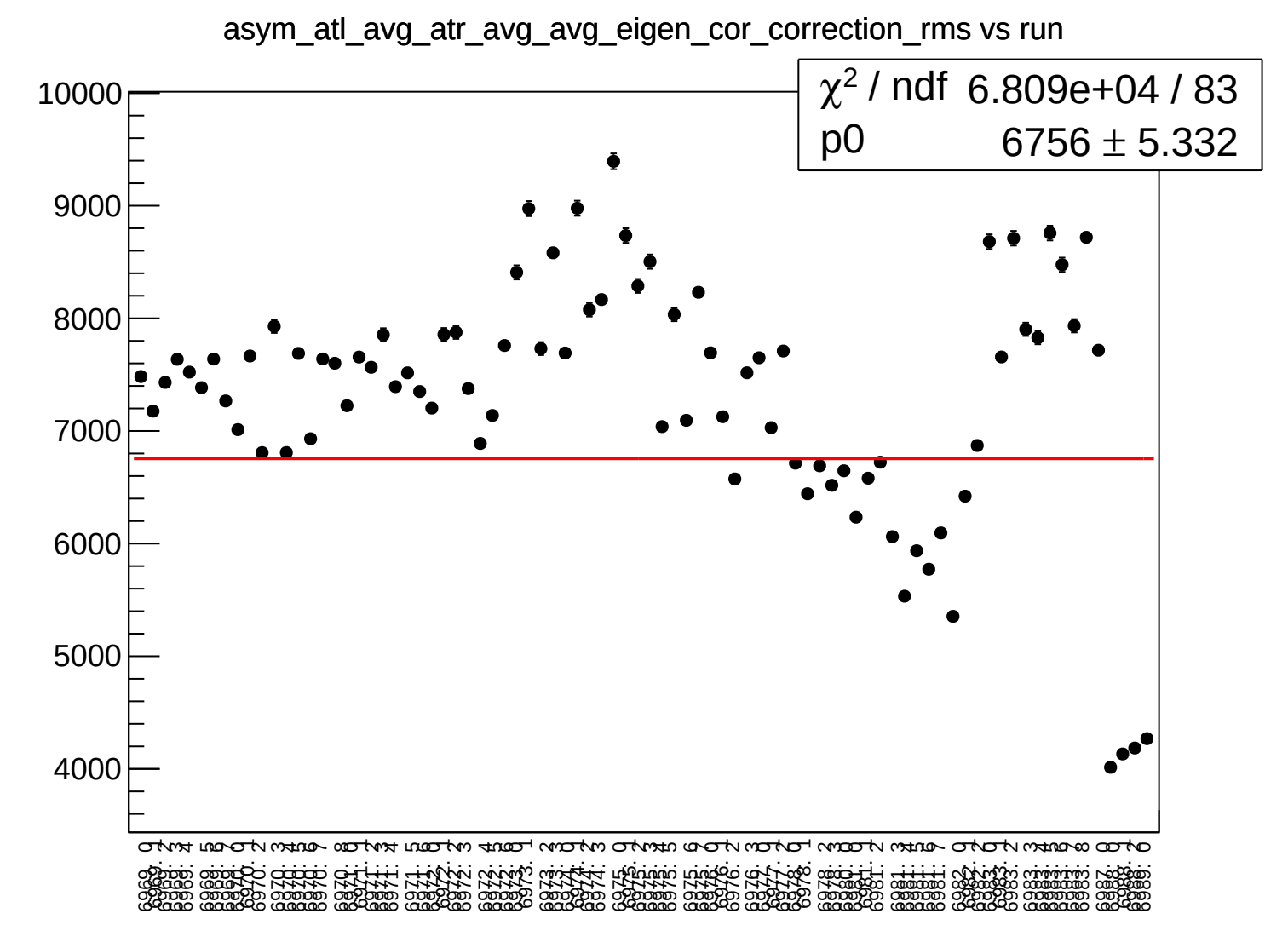

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 6.809e+04 / 83
p0 6756 ± 5.332
10000
9000
8000
7000
6000
5000
4000

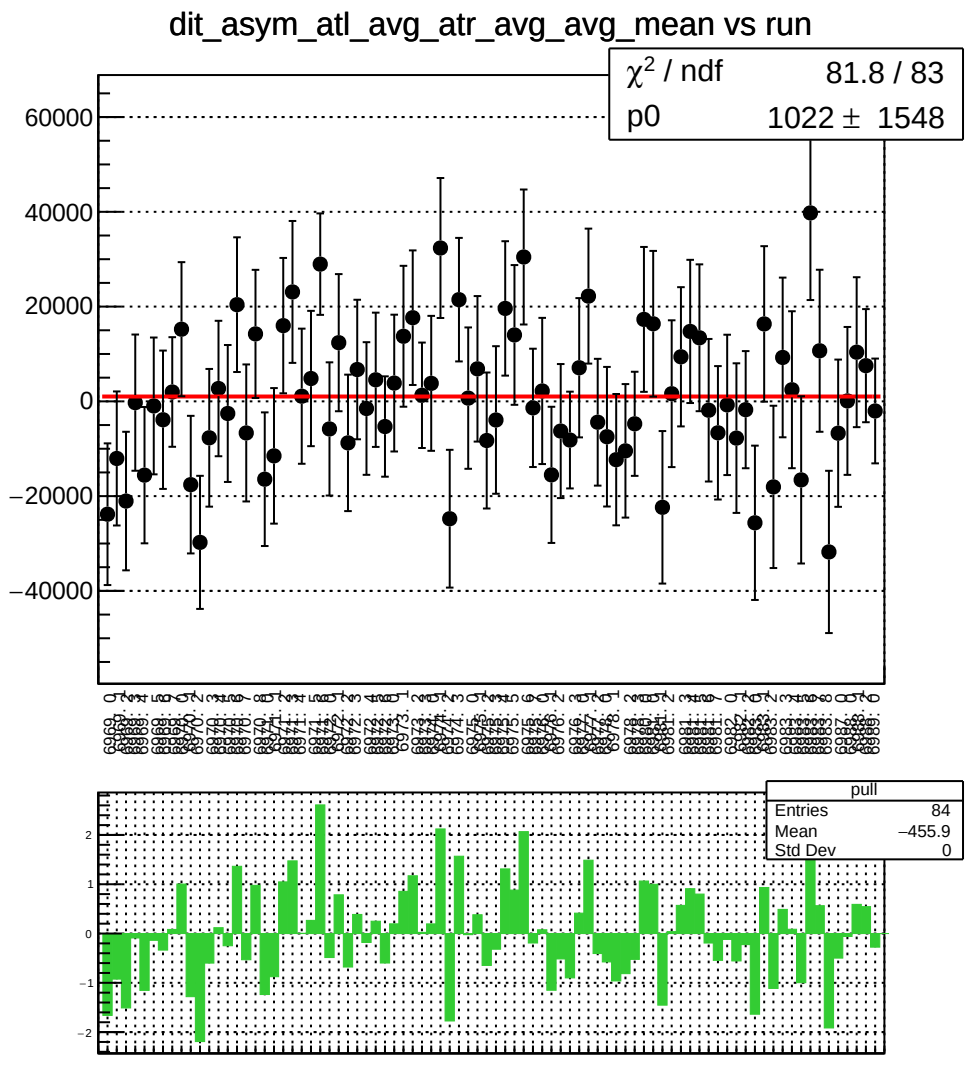

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 87.06 / 83
p0 1832 ± 1426
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −460.6
Std Dev 0
2
1
0
−1
−2

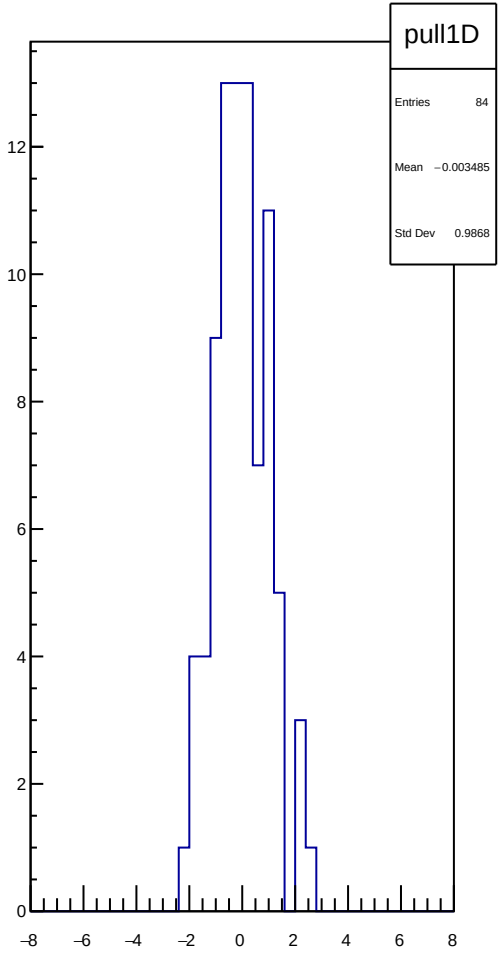

pull1D
Entries 84
Mean −0.0007694
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

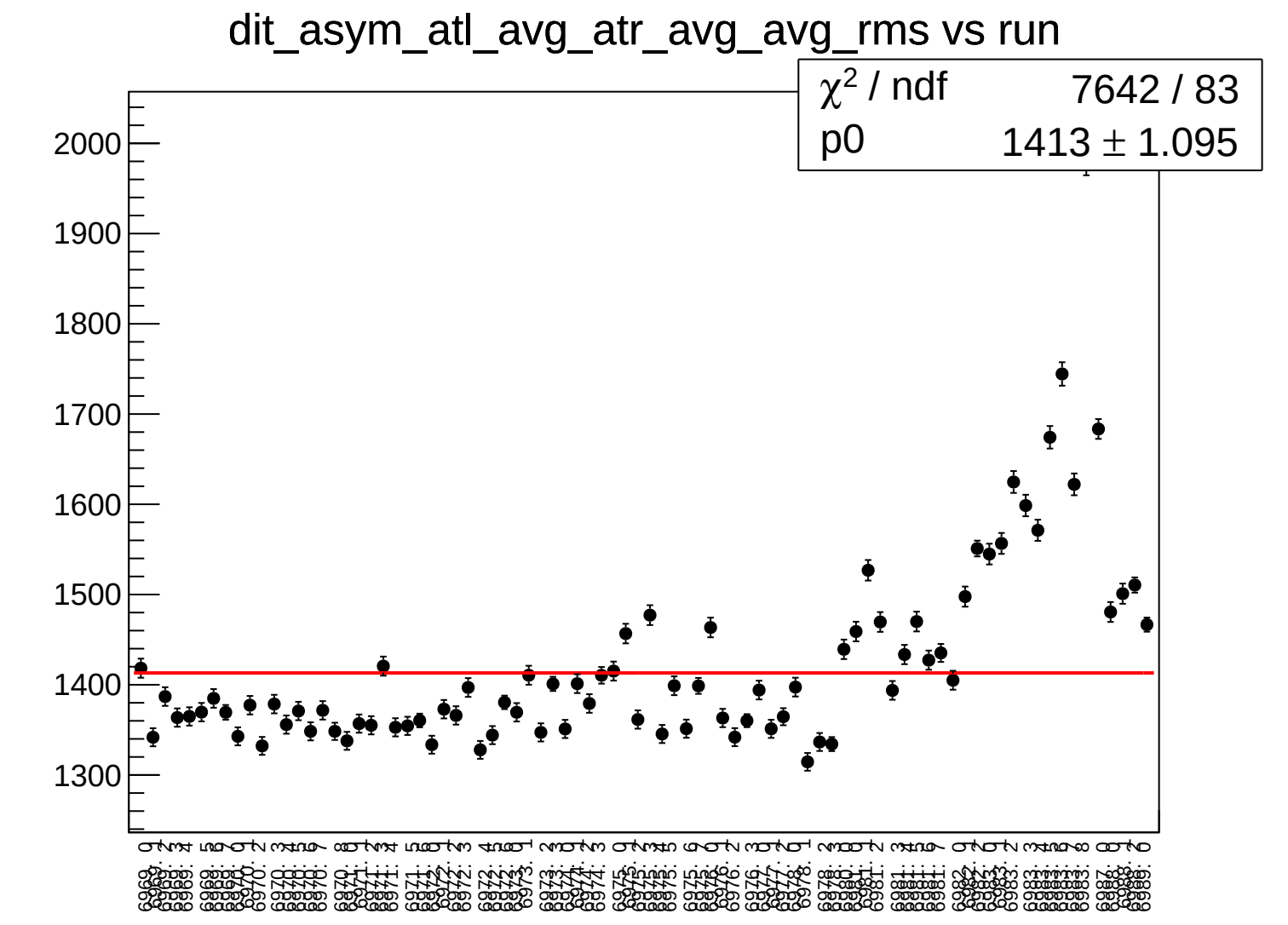

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4047 / 83
p0 1303 ± 1.008
2000
1900
1800
1700
1600
1500
1400
1300
1200

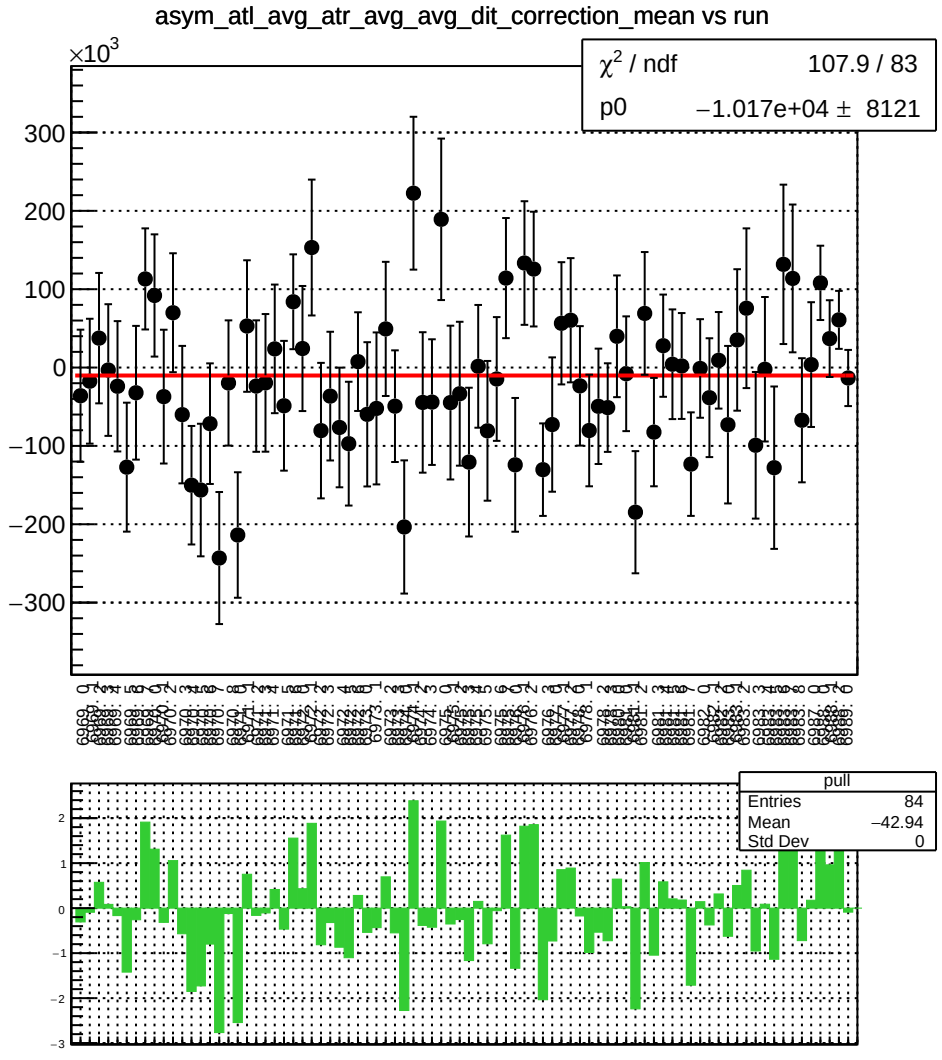

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108.1 / 83
p0 −8931 ± 7541
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −32.66
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.05615
Std Dev 1.133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

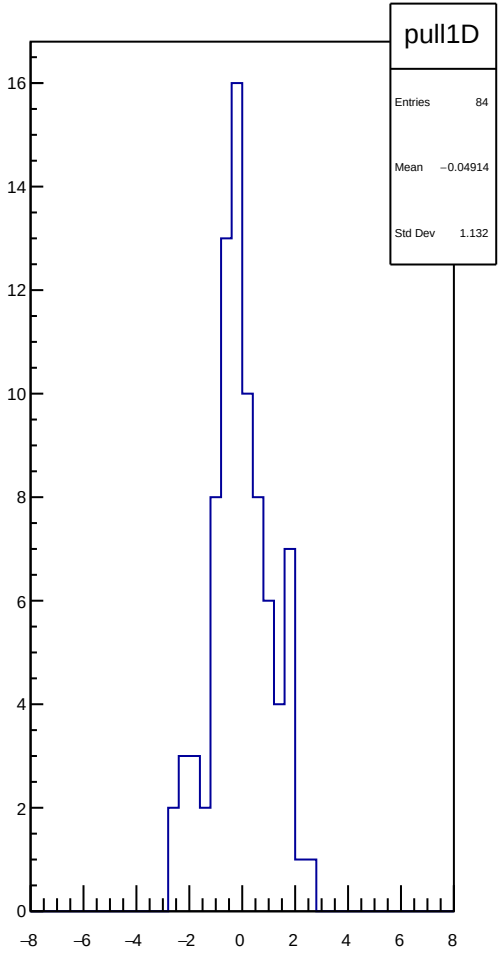

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 6.809e+04 / 83
p0 6756 ± 5.332
10000
9000
8000
7000
6000
5000
4000

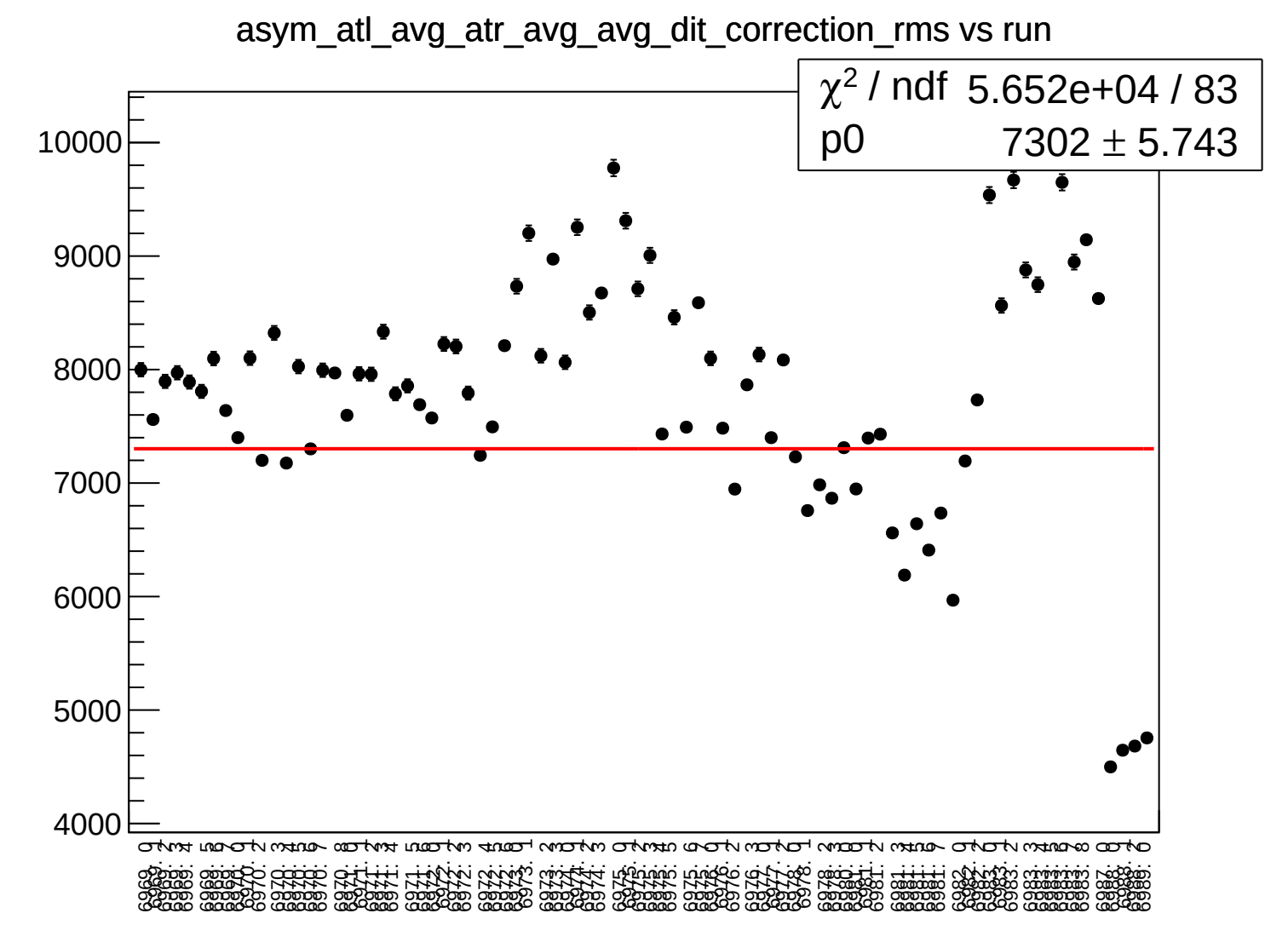

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 81.8 / 83
p0 1022 ± 1548
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −455.9
Std Dev 0
2
1
0
−1
−2

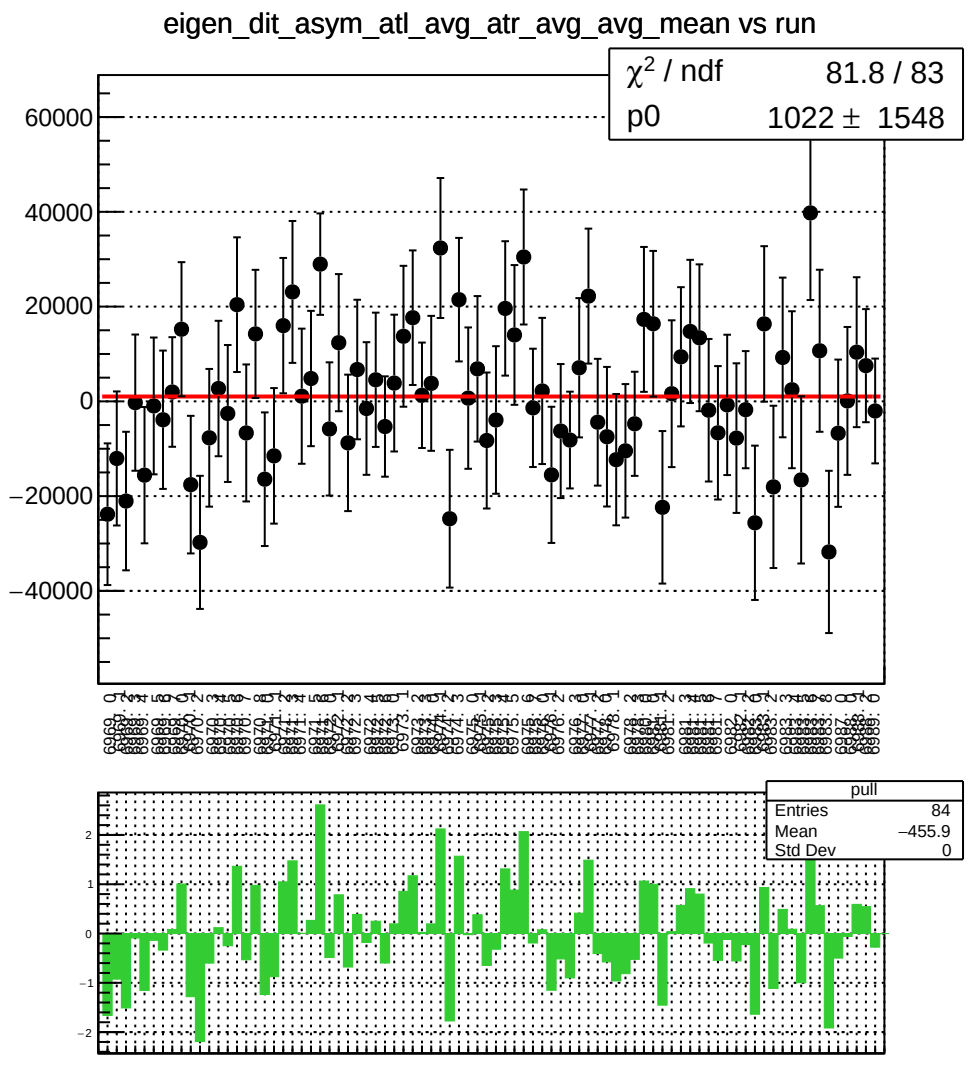

pull1D
Entries 84
Mean −0.003485
Std Dev 0.9868
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

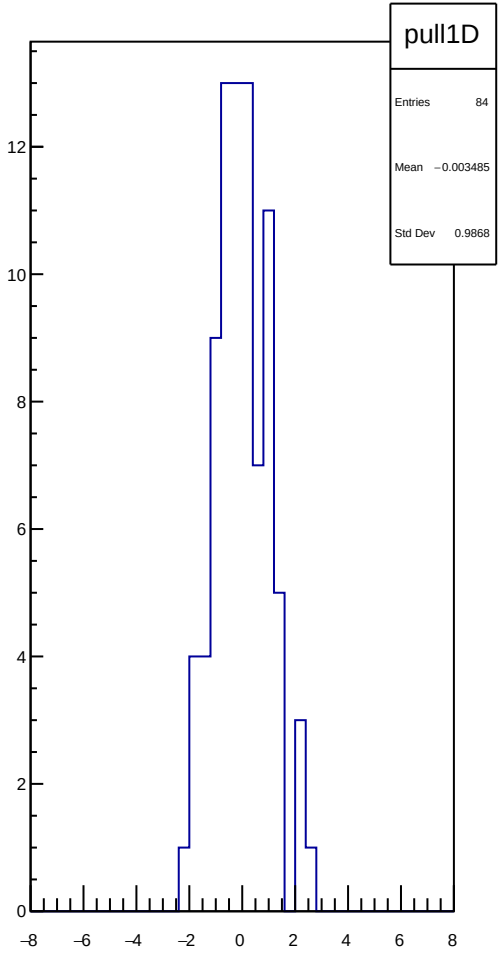

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 7642 / 83
p0 1413 ± 1.095
2000
1900
1800
1700
1600
1500
1400
1300

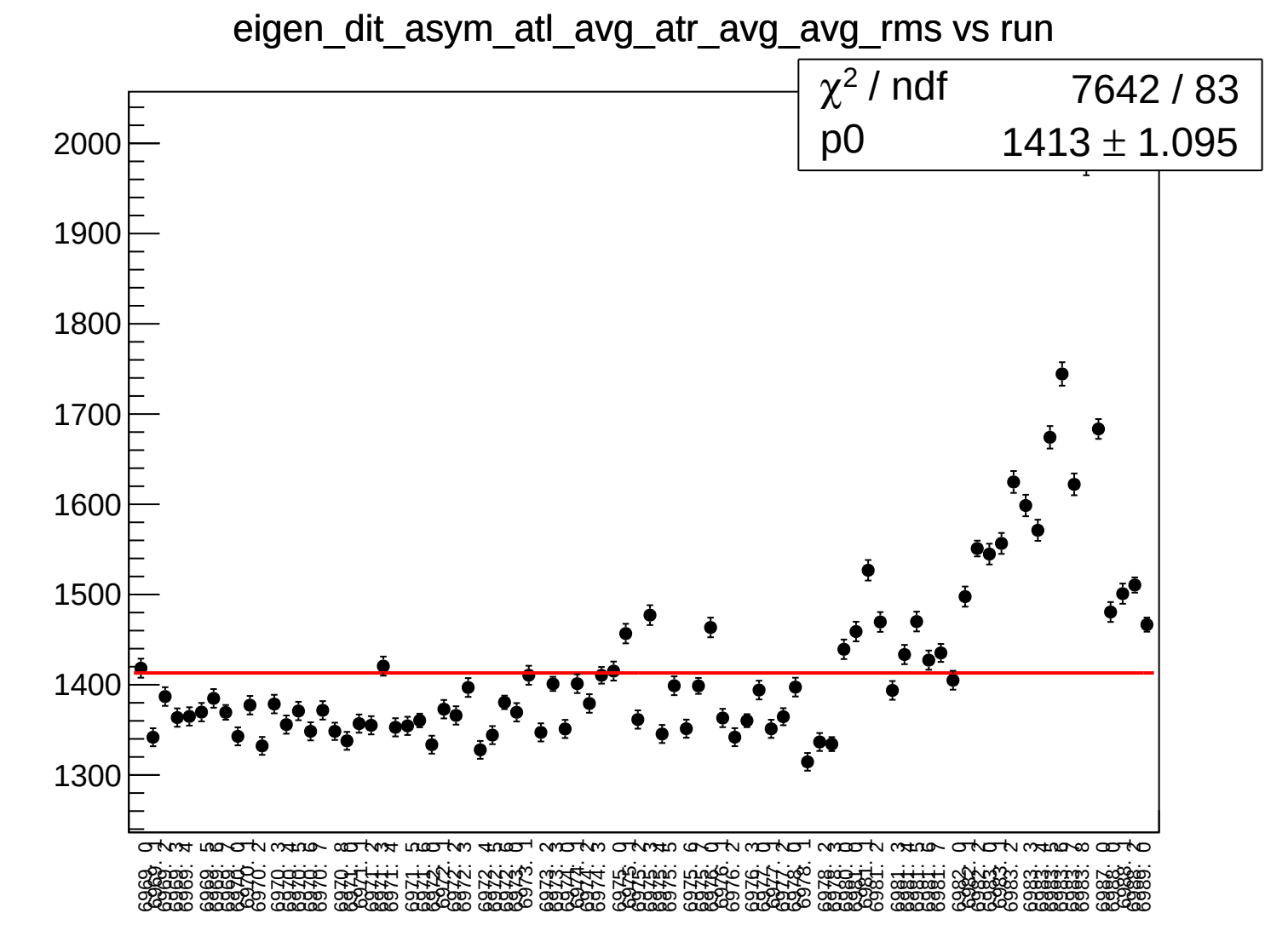

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.9 / 83
p0 −1.017e+04 ± 8121
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −42.94
Std Dev 0
2
1
0
−1
−2
−3

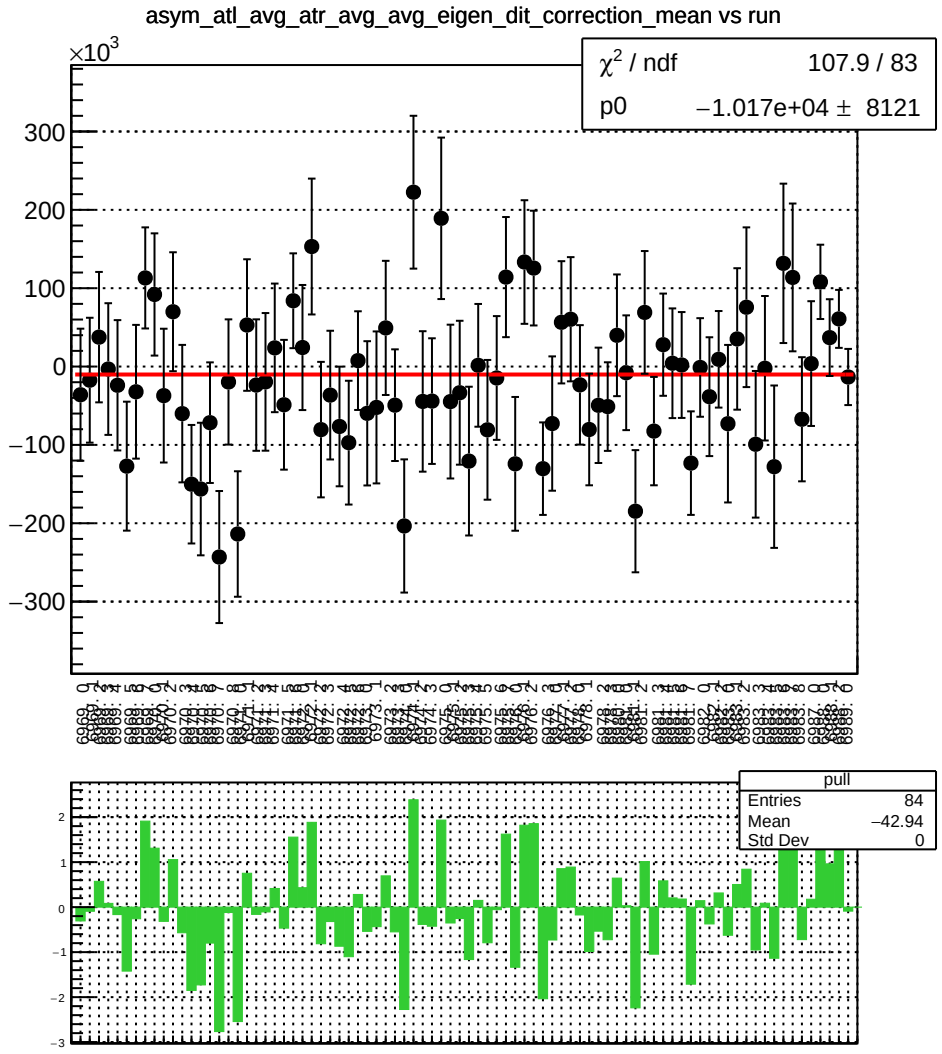

pull1D
Entries 84
Mean −0.04914
Std Dev 1.132
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

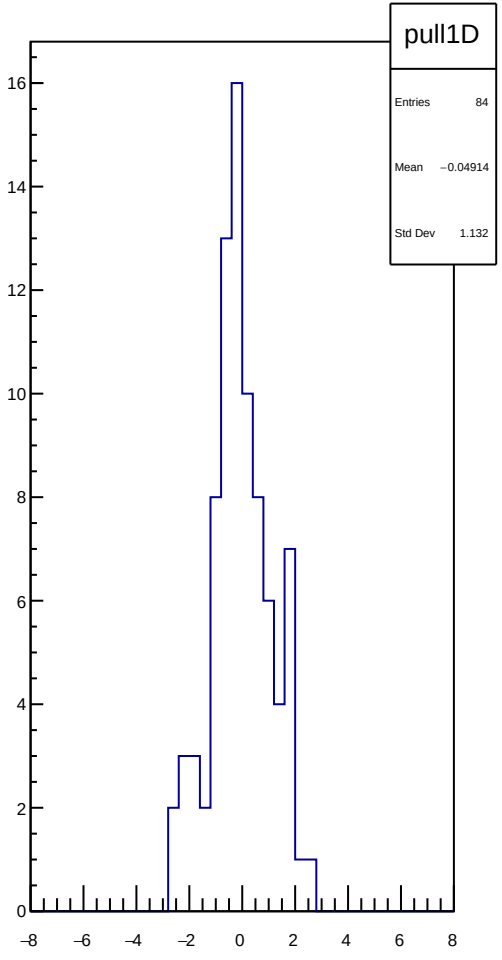

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 5.652e+04 / 83
p0 7302 ± 5.743
10000
9000
8000
7000
6000
5000
4000

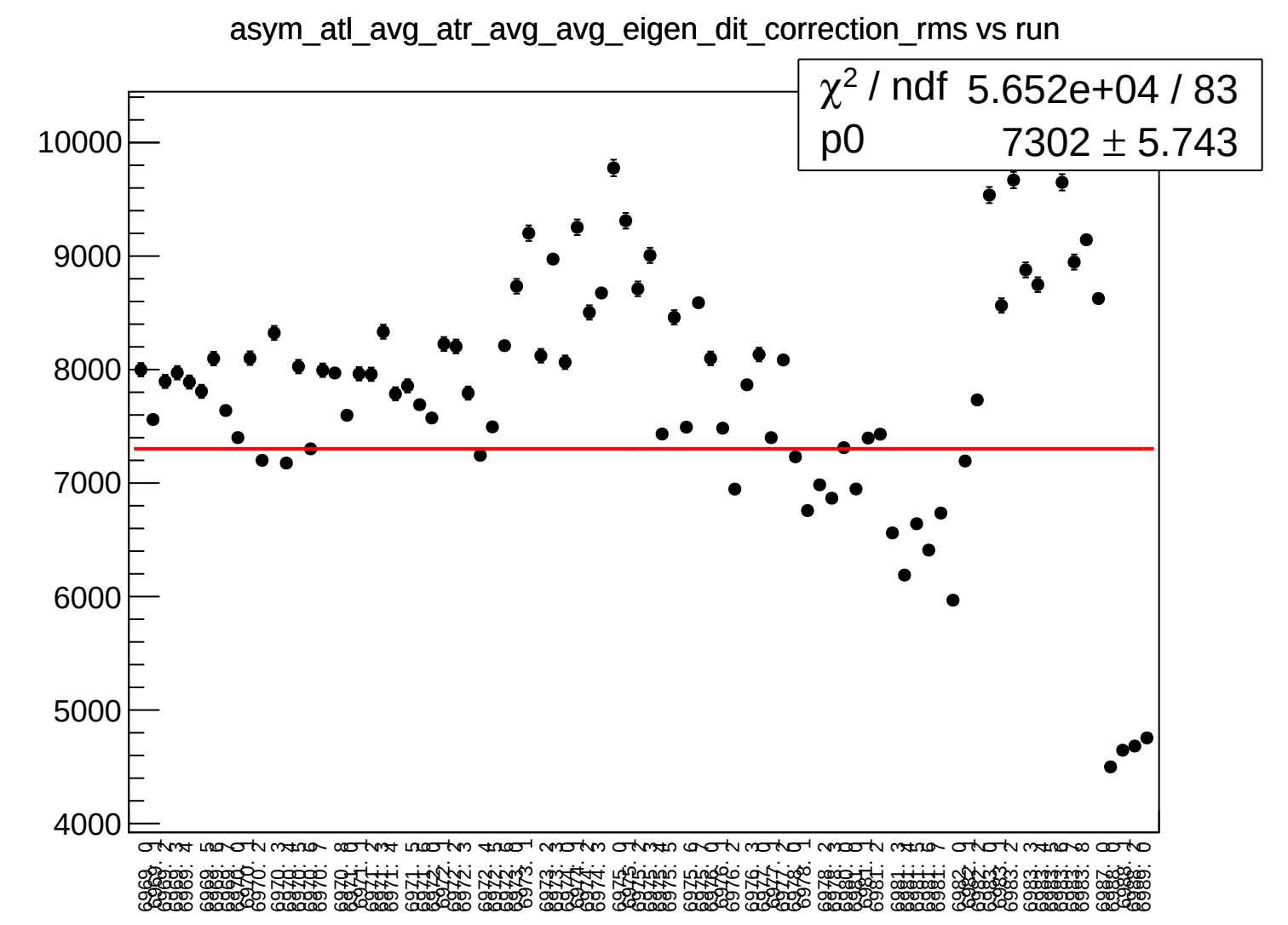

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 81.8 / 83
p0 1022 ± 1548
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −455.9
Std Dev 0
2
1
0
−1
−2

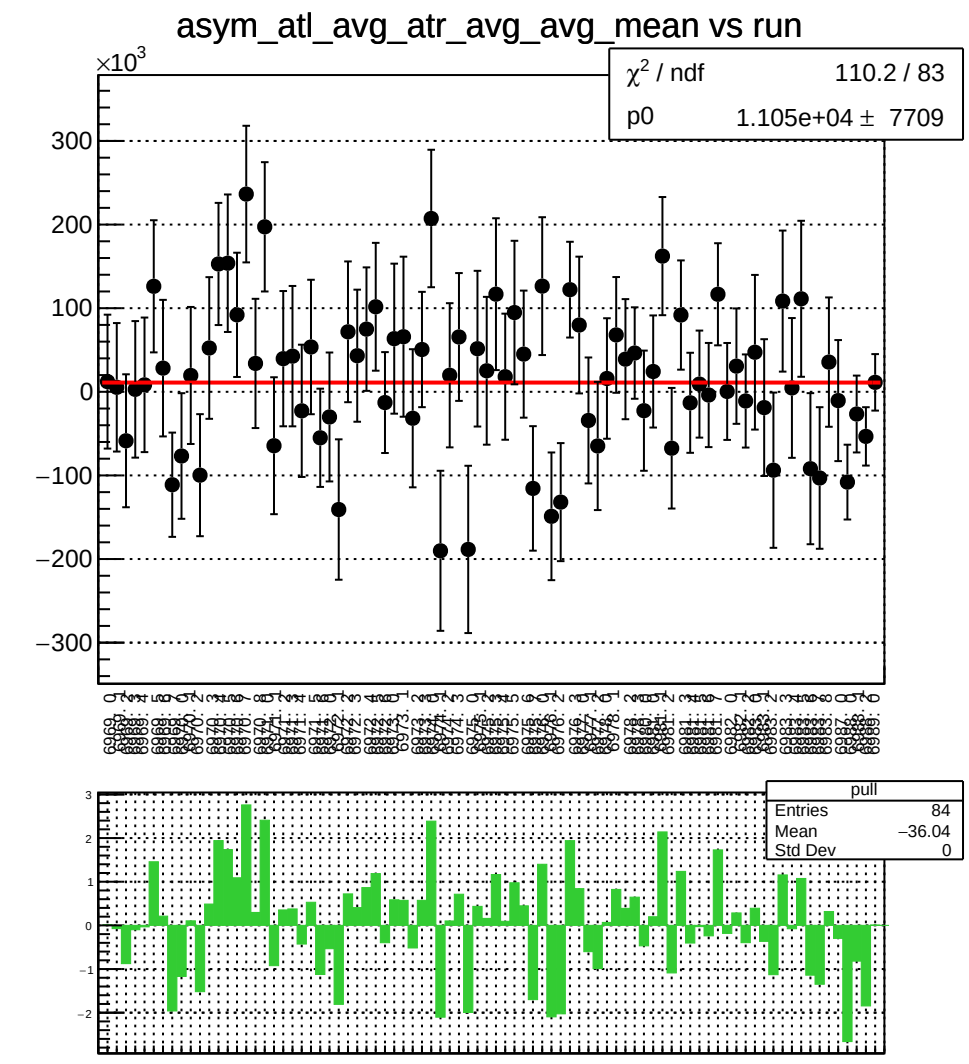

pull1D
Entries 84
Mean −0.003485
Std Dev 0.9868
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

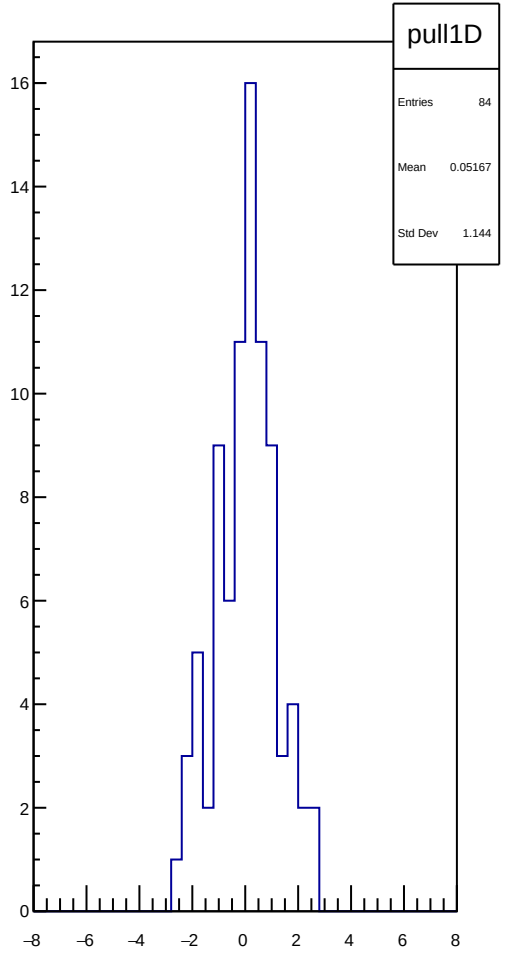

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 7642 / 83
p0 1413 ± 1.095
2000
1900
1800
1700
1600
1500
1400
1300

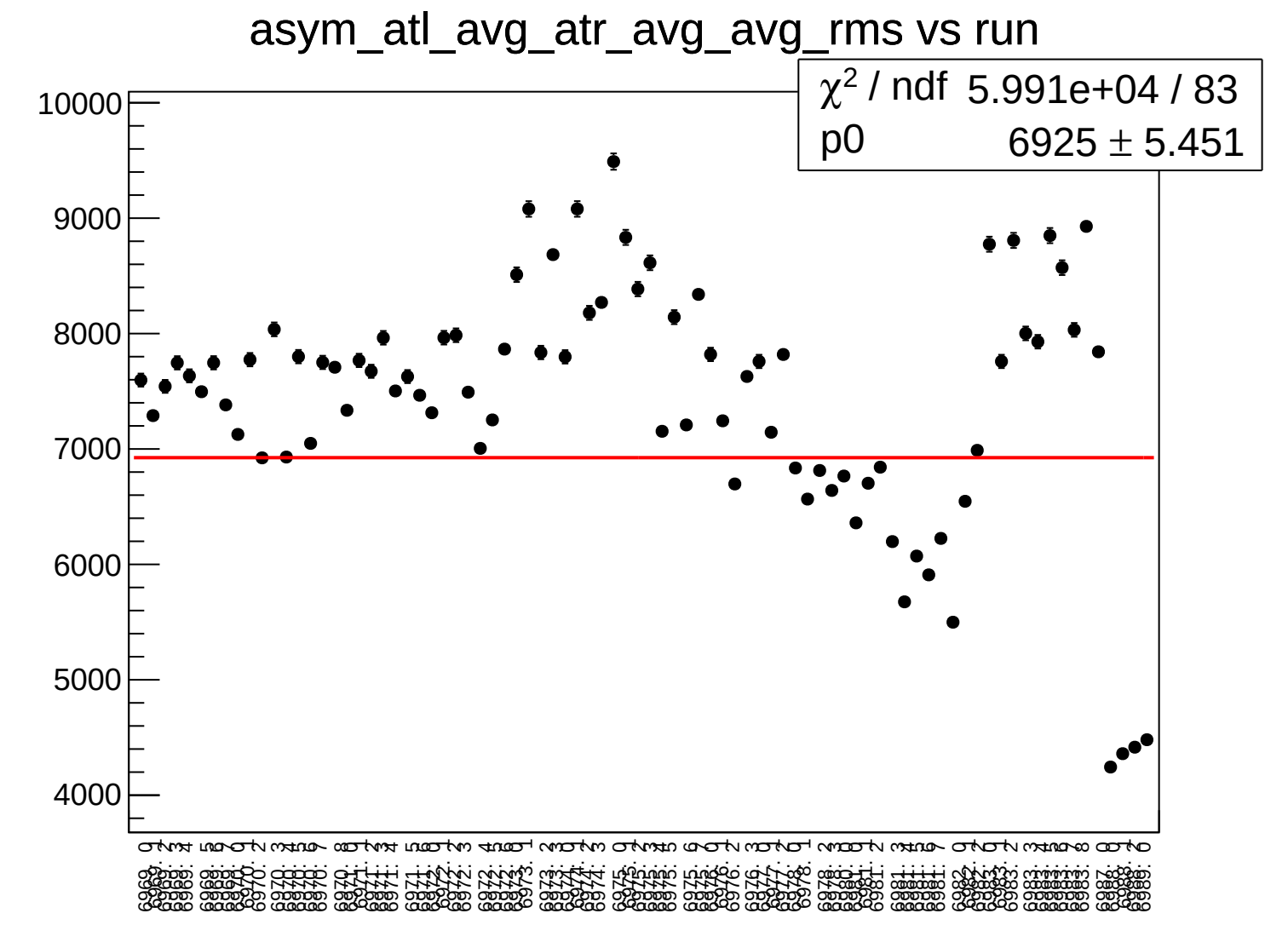

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.9 / 83
p0 −1.017e+04 ± 8121
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −42.94
Std Dev 0
2
1
0
−1
−2
−3

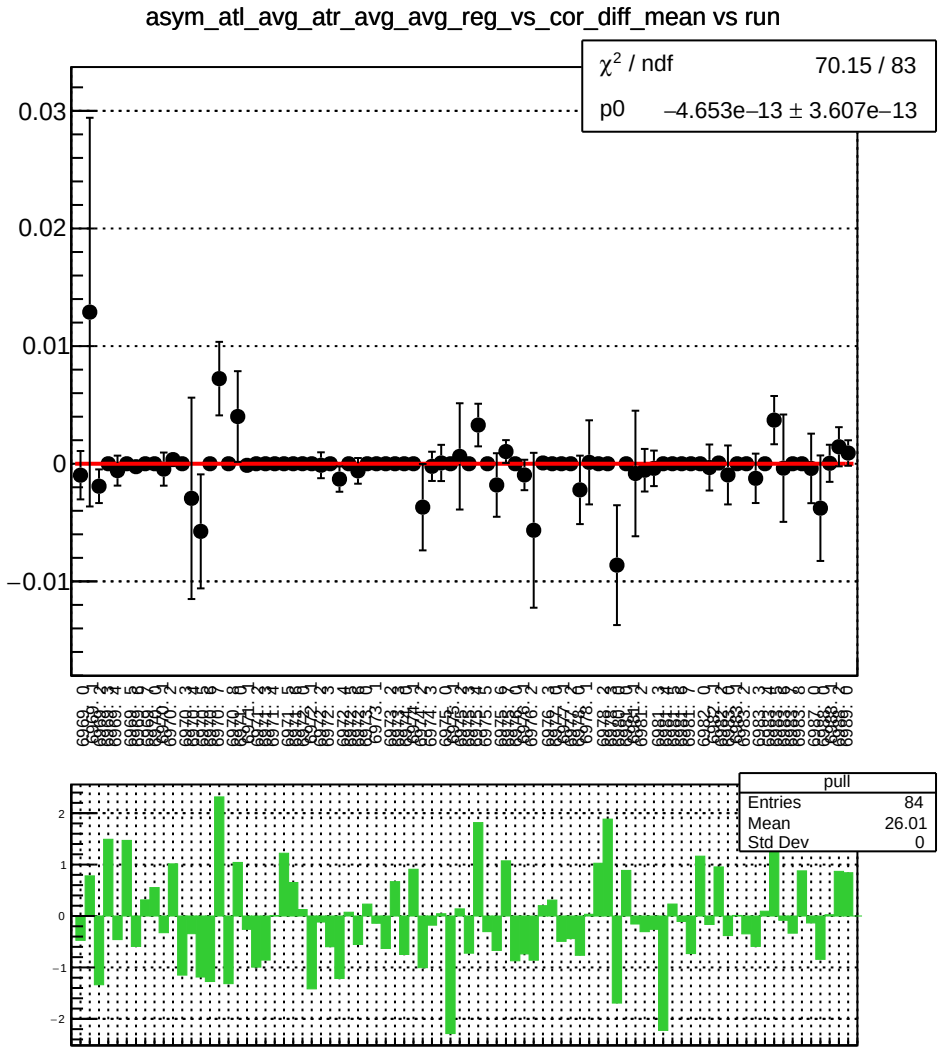

pull1D
Entries 84
Mean −0.04914
Std Dev 1.132
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

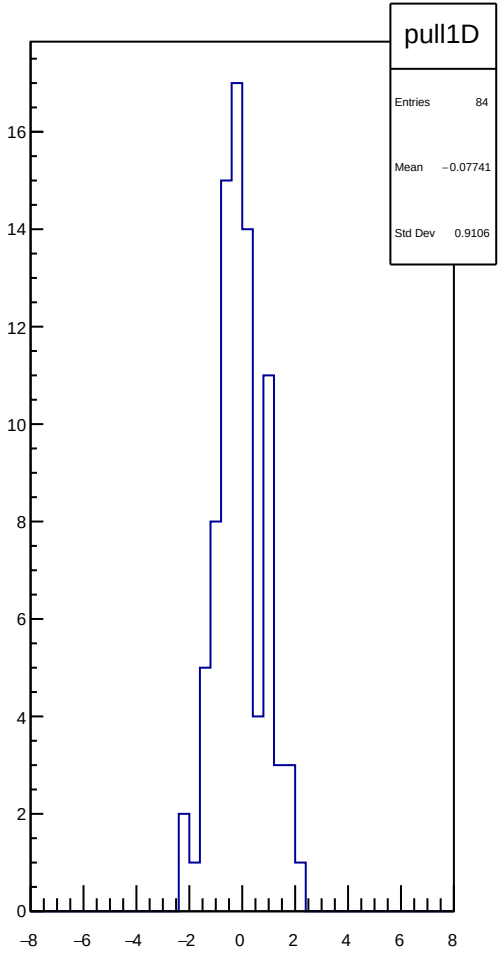

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.652e+04 / 83
p0 7302 ± 5.743
10000
9000
8000
7000
6000
5000
4000

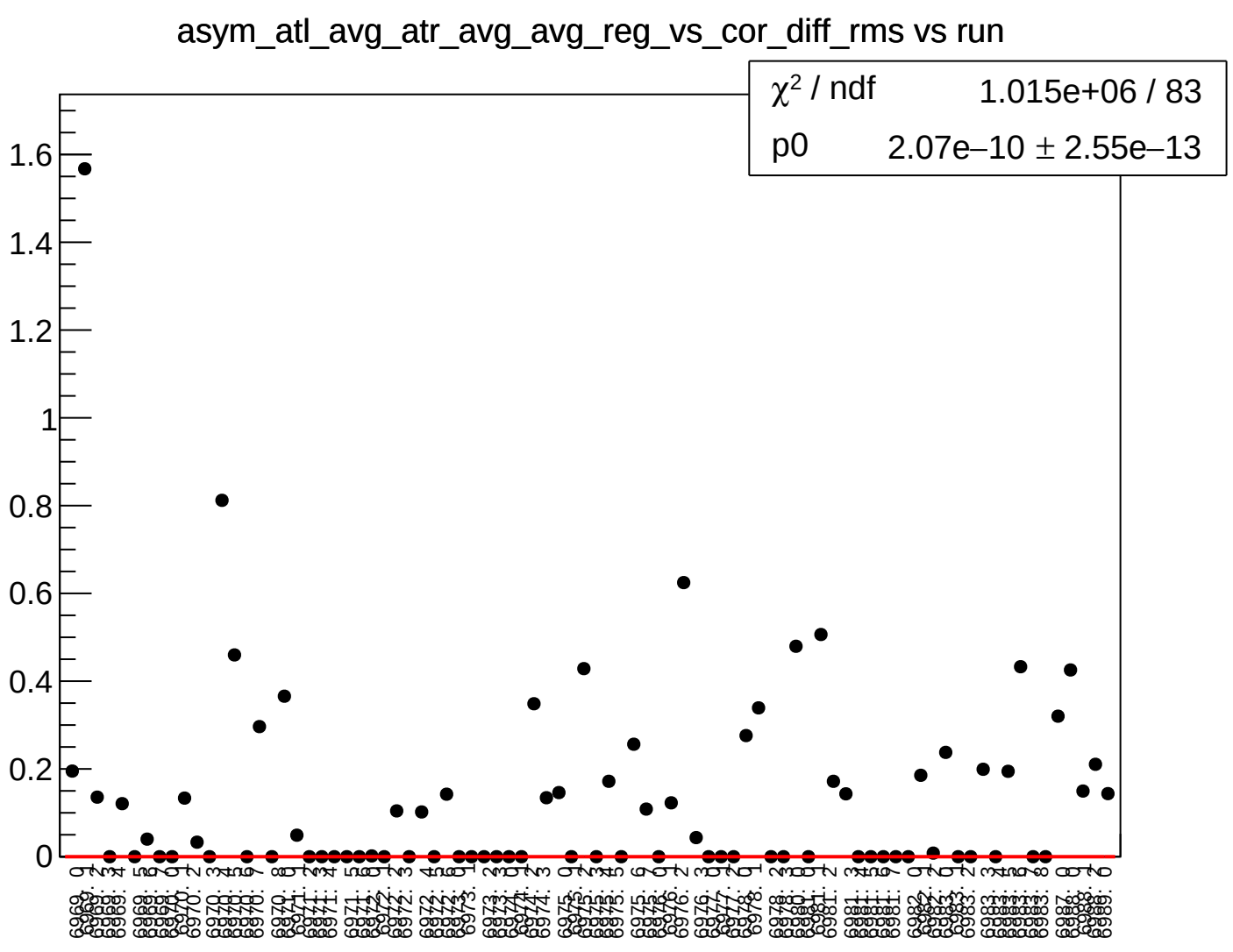

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 110.2 / 83
p0 1.105e+04 ± 7709
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −36.04
Std Dev 0
3
2
1
0
−1
−2

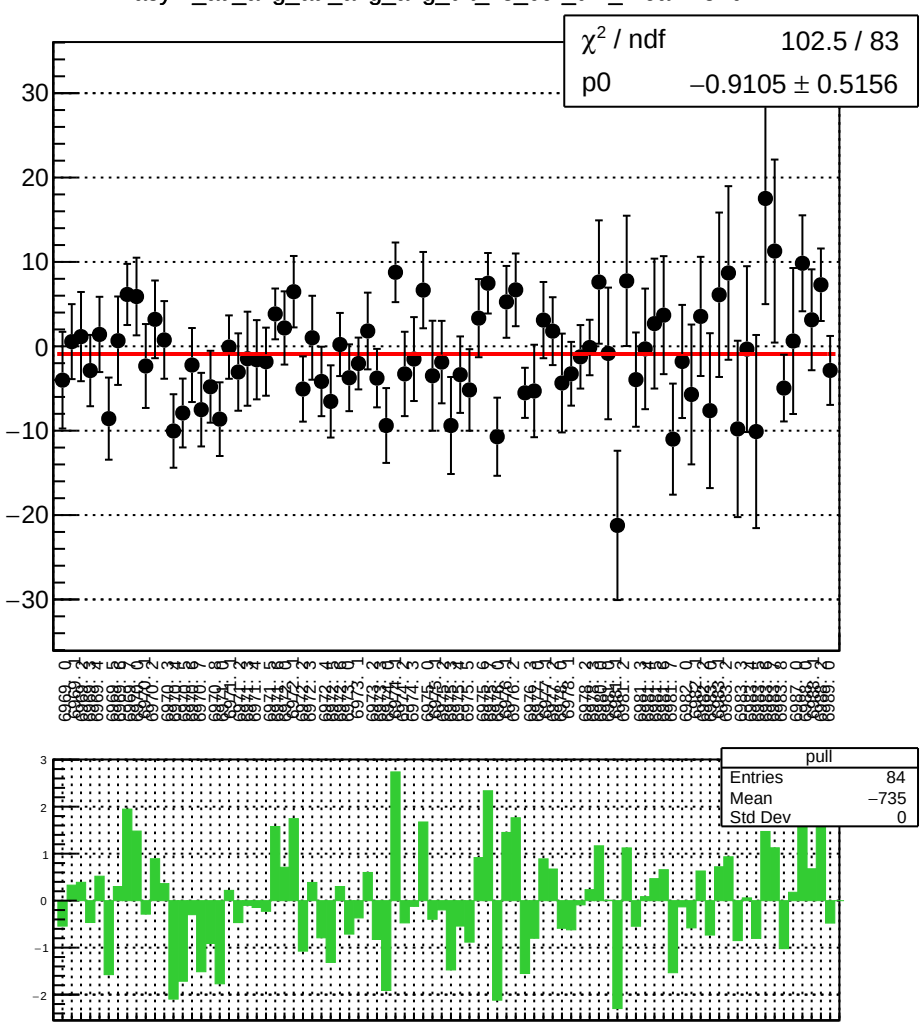

pull1D
Entries 84
Mean 0.05167
Std Dev 1.144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

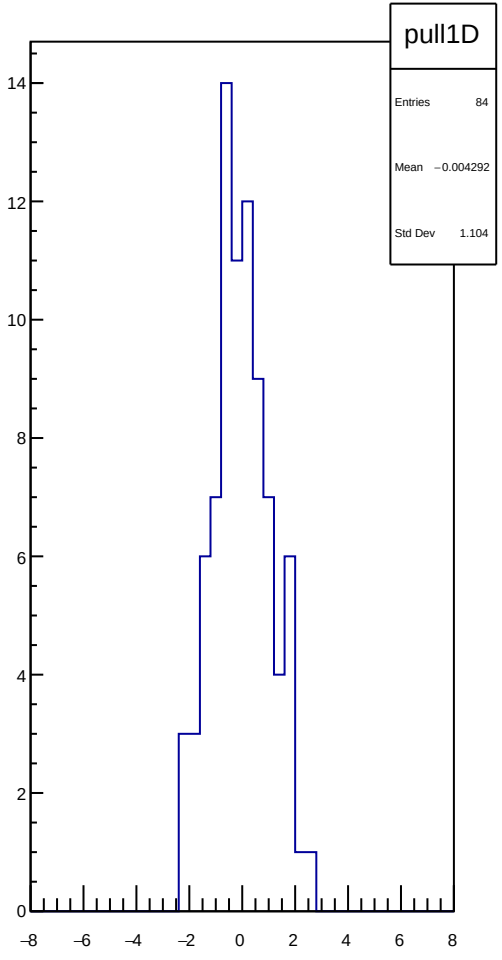

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5.991e+04 / 83
p0 6925 ± 5.451
10000
9000
8000
7000
6000
5000
4000

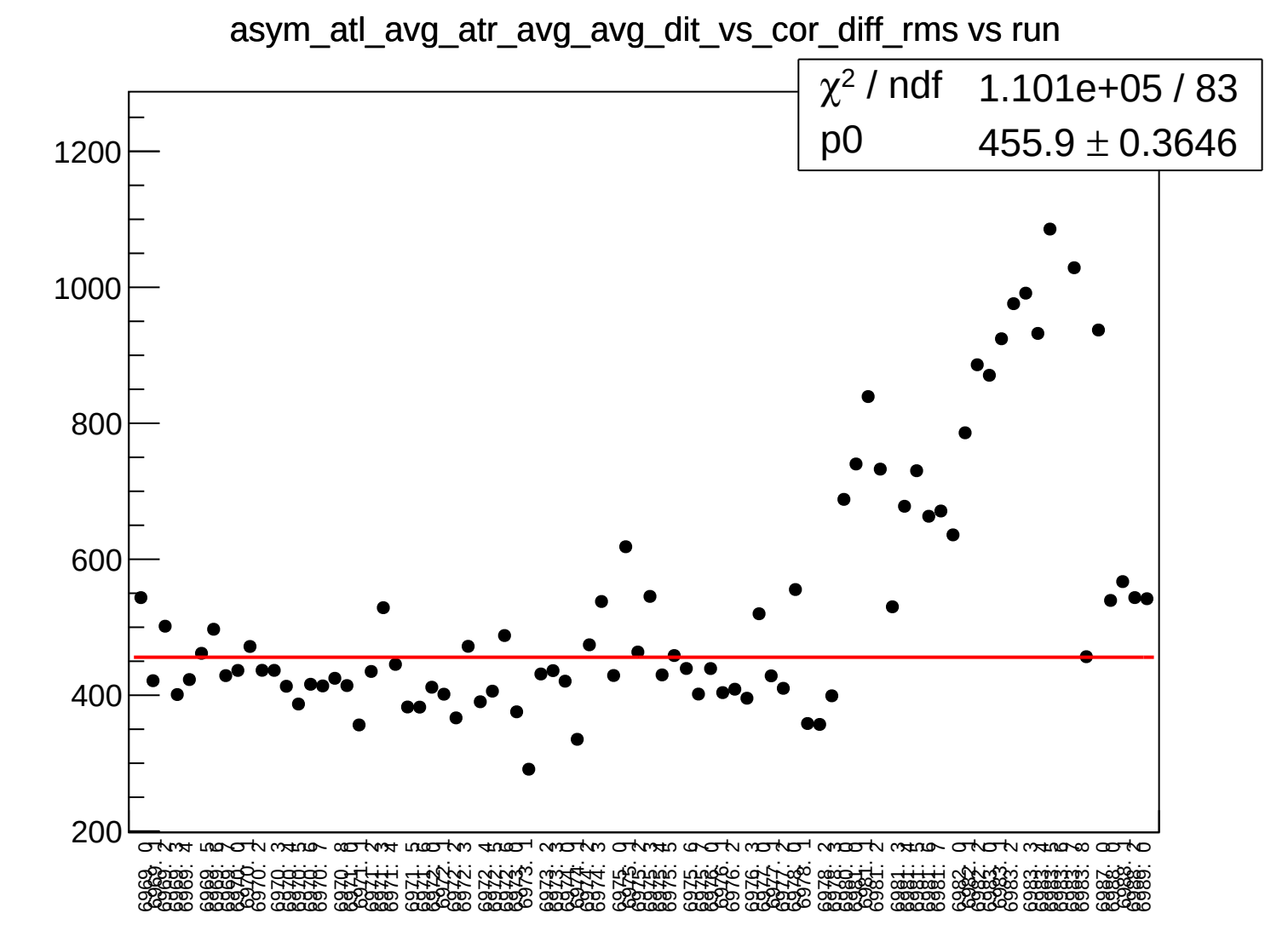

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.15 / 83
p0 −4.653e−13 ± 3.607e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 84
Mean 26.01
Std Dev 0

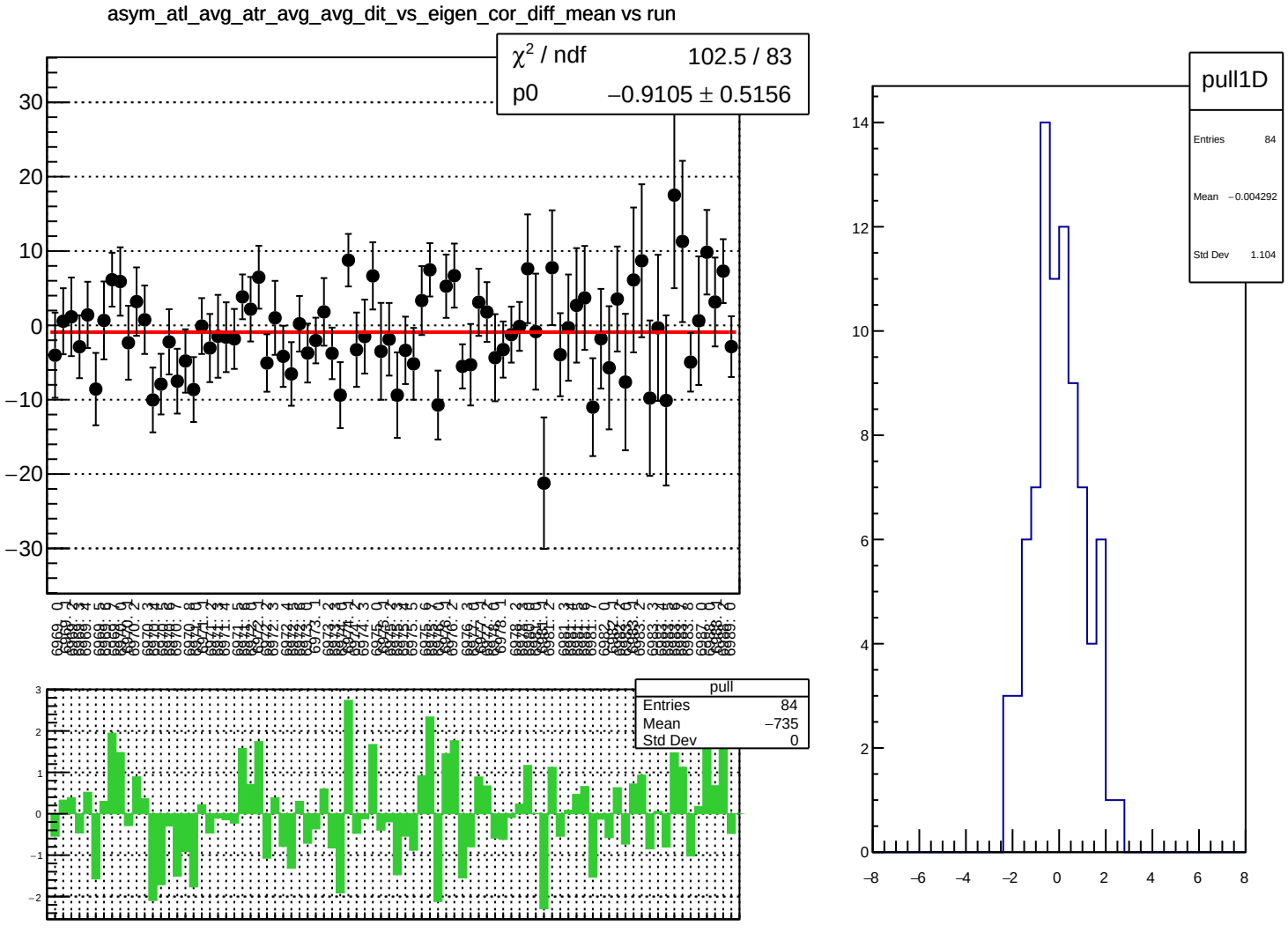

pull1D
Entries 84
Mean −0.07741
Std Dev 0.9106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

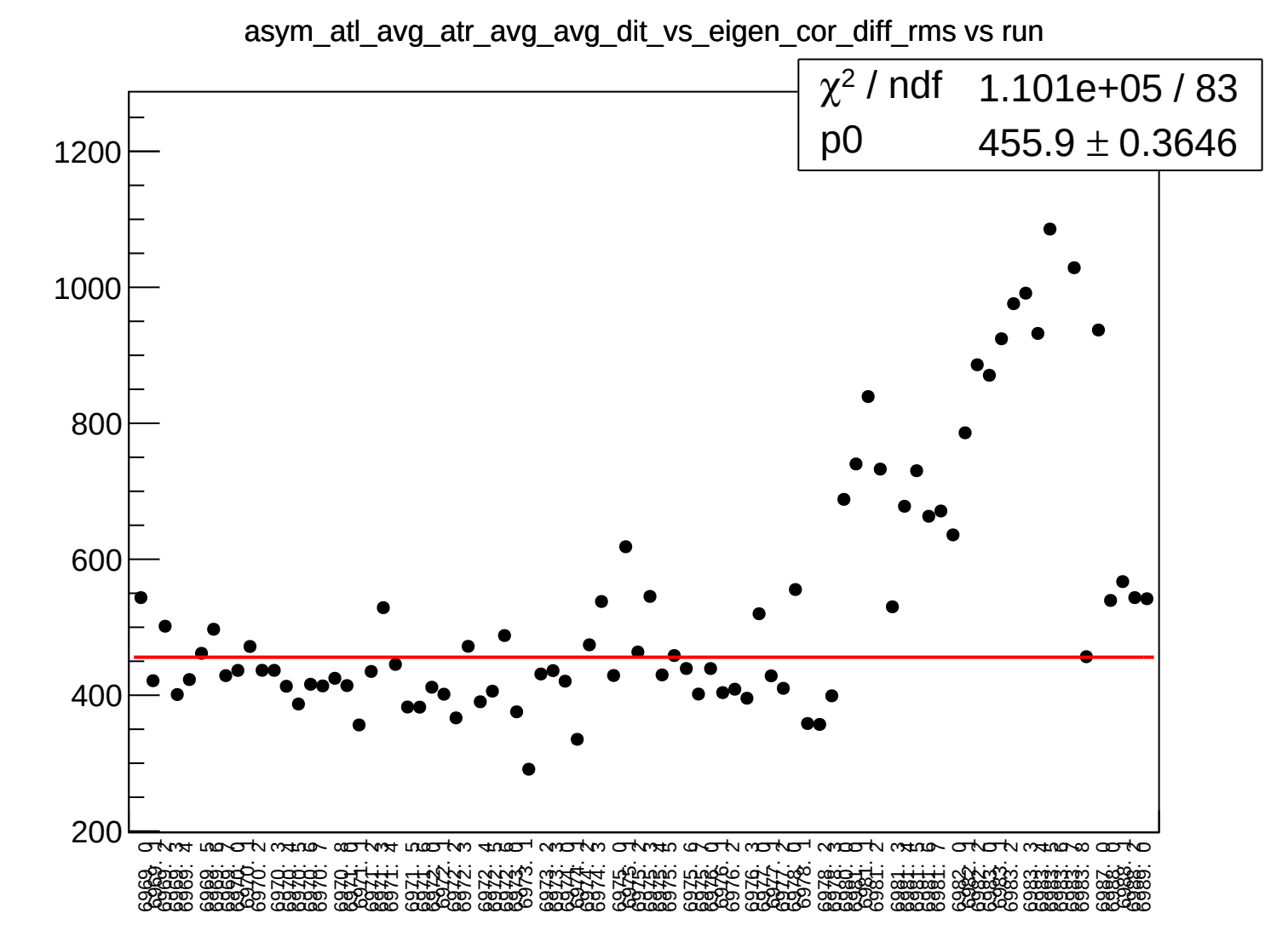

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.015e+06 / 83
p0 2.07e−10 ± 2.55e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

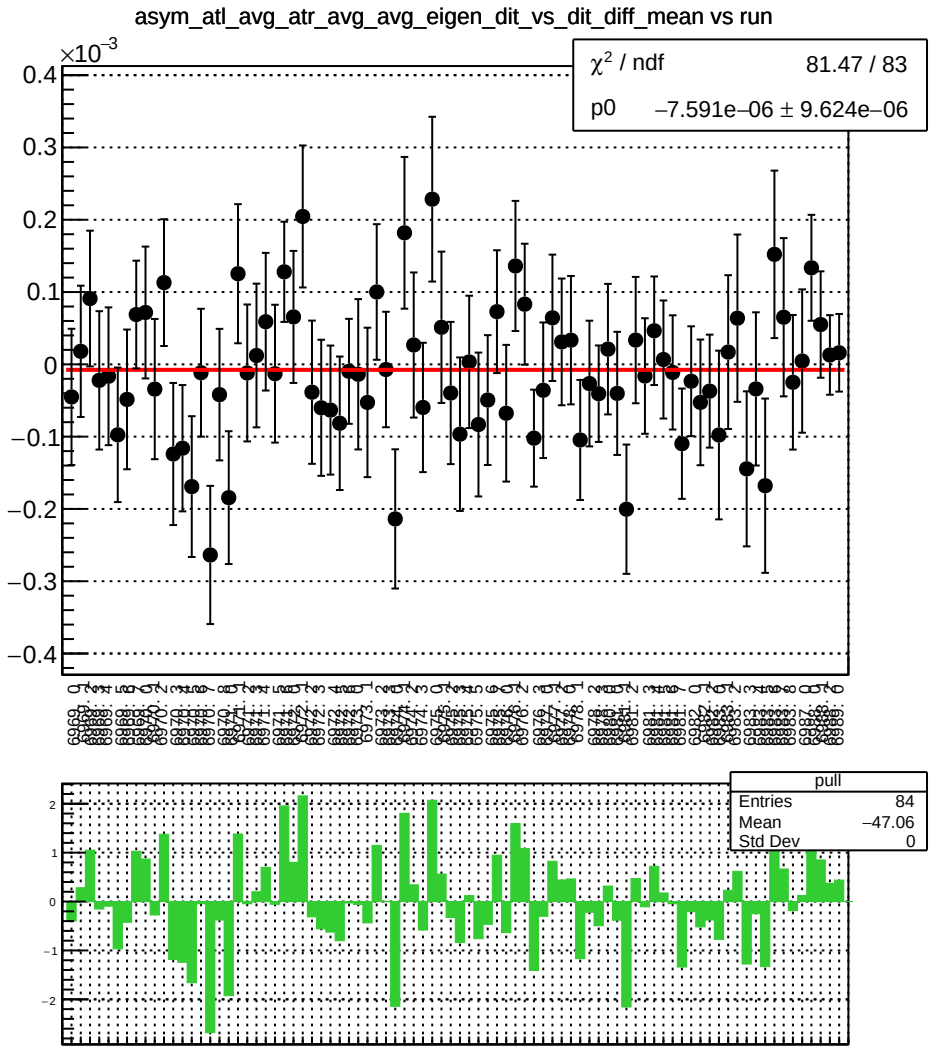

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 83
p0 −0.9105 ± 0.5156
pull
Entries 84
Mean −735
Std Dev 0

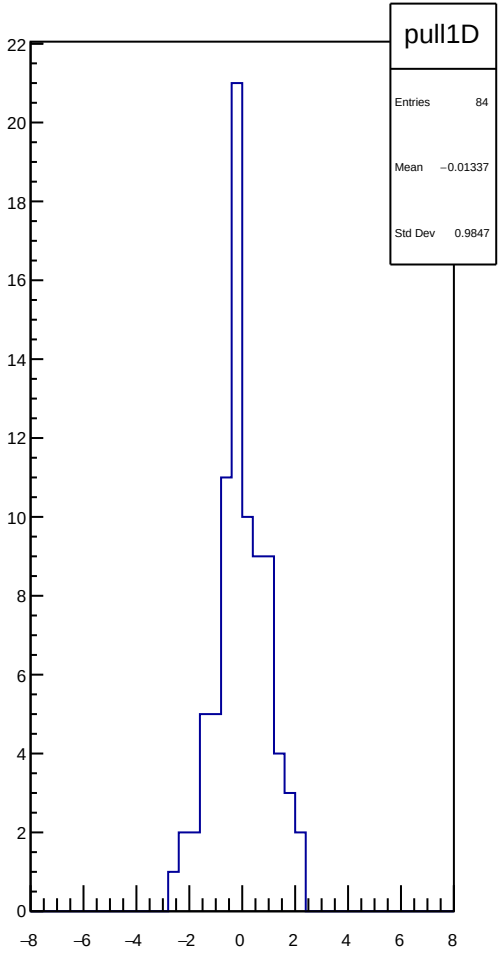

pull1D
Entries 84
Mean −0.004292
Std Dev 1.104

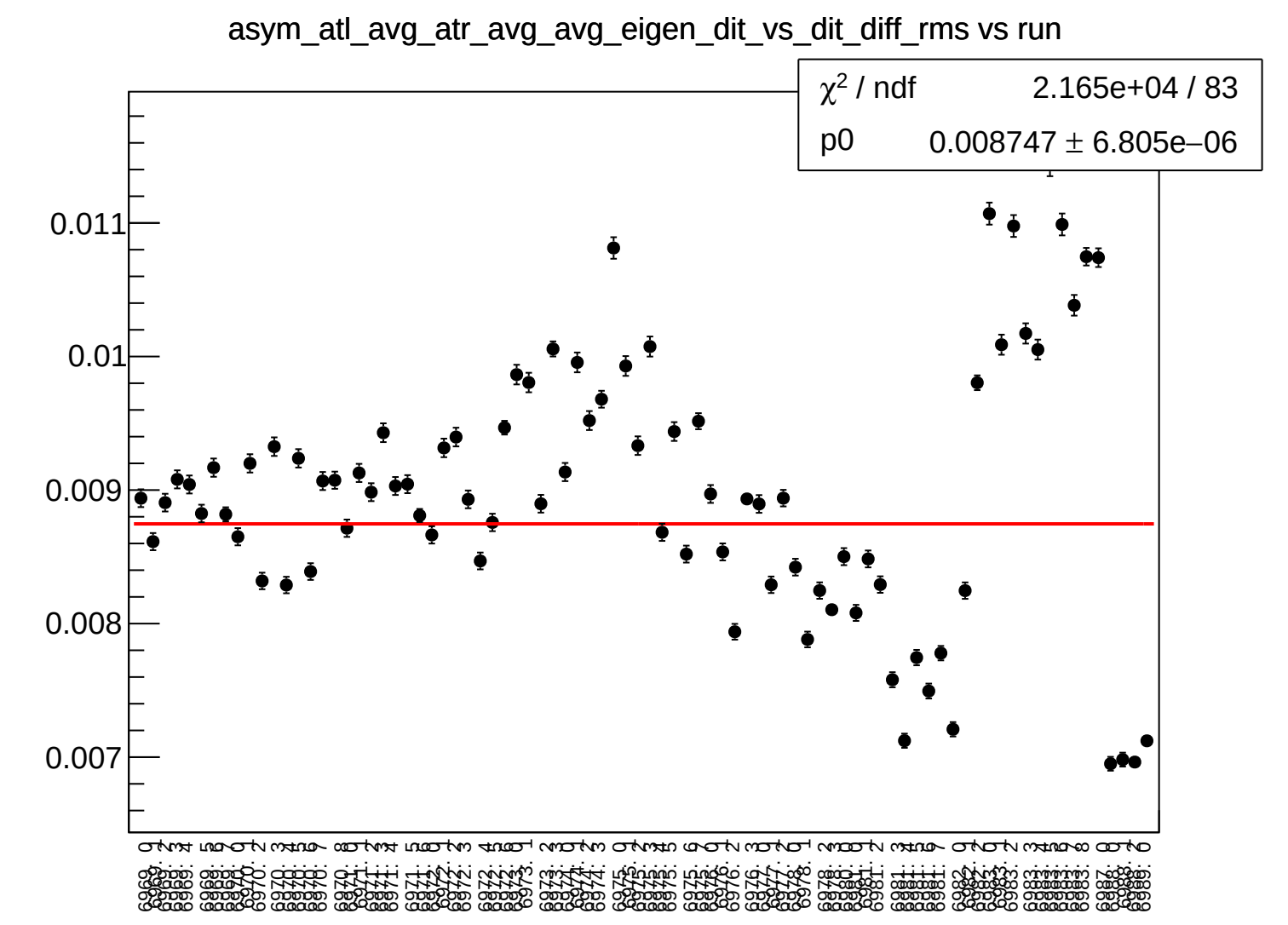

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 83
p0 455.9 ± 0.3646
1200
1000
800
600
400
200

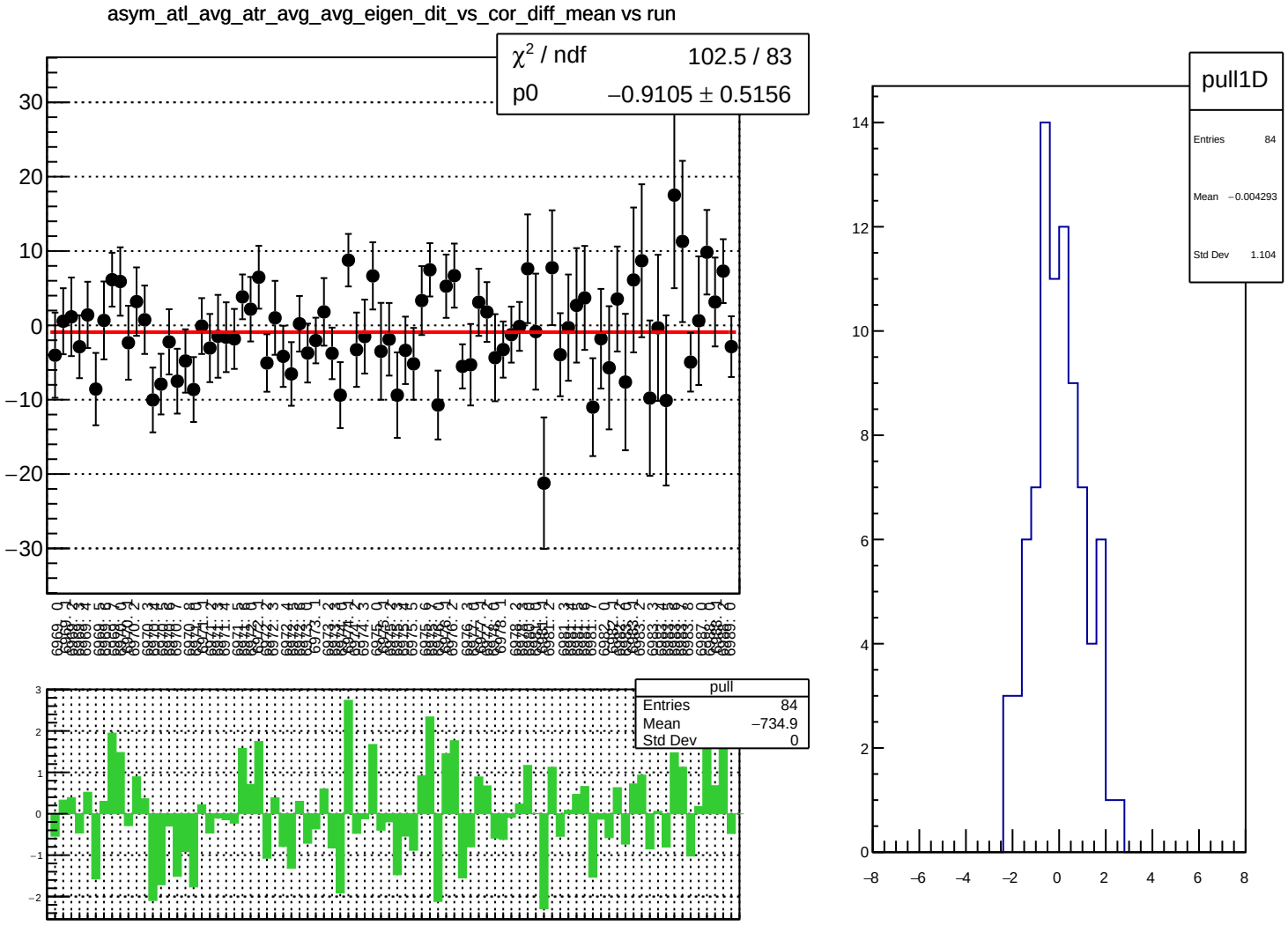

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.5 / 83
p0 −0.9105 ± 0.5156
pull
Entries 84
Mean −735
Std Dev 0
pull1D
Entries 84
Mean −0.004292
Std Dev 1.104

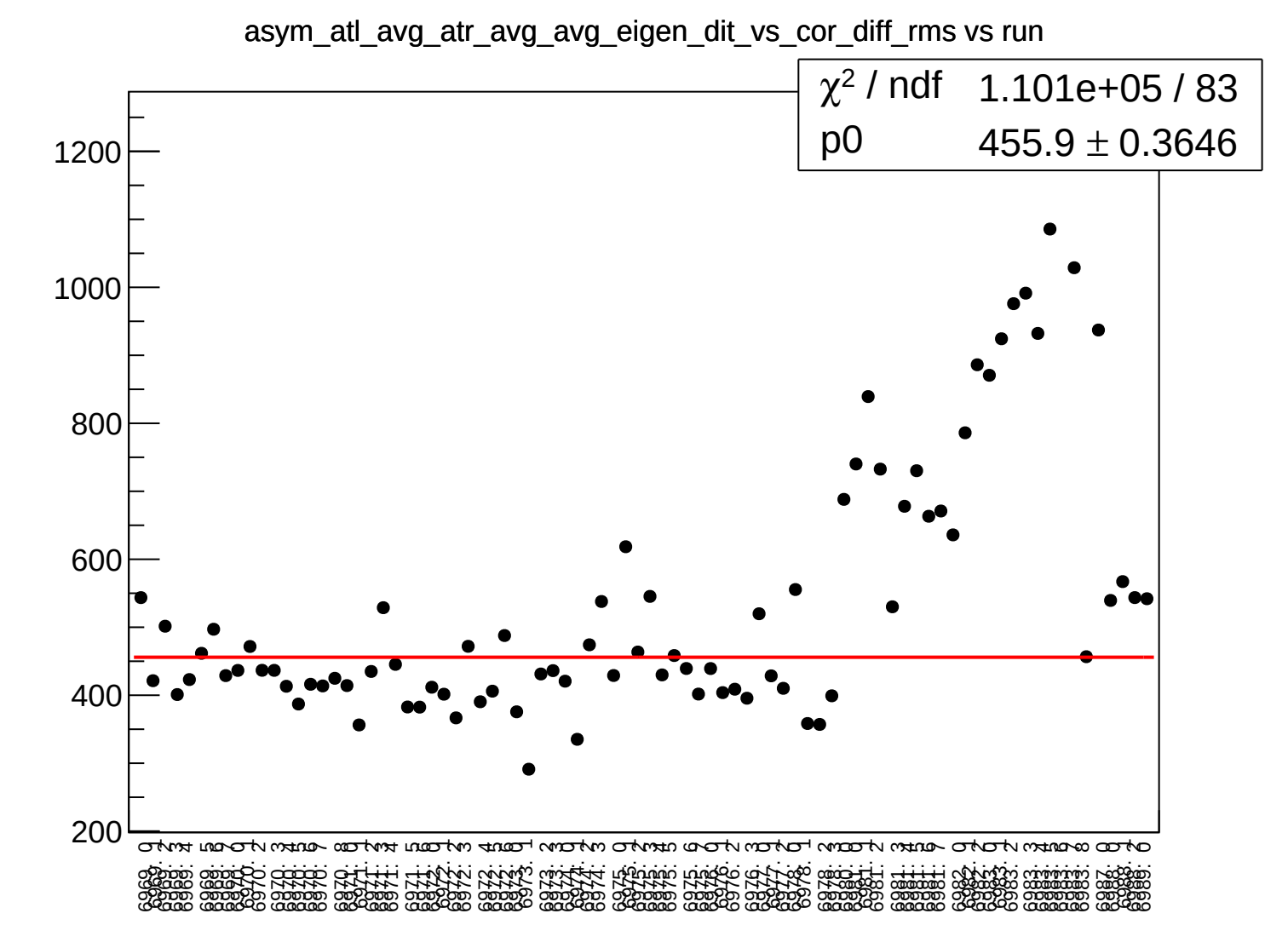

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 83
p0 455.9 ± 0.3646
1200
1000
800
600
400
200

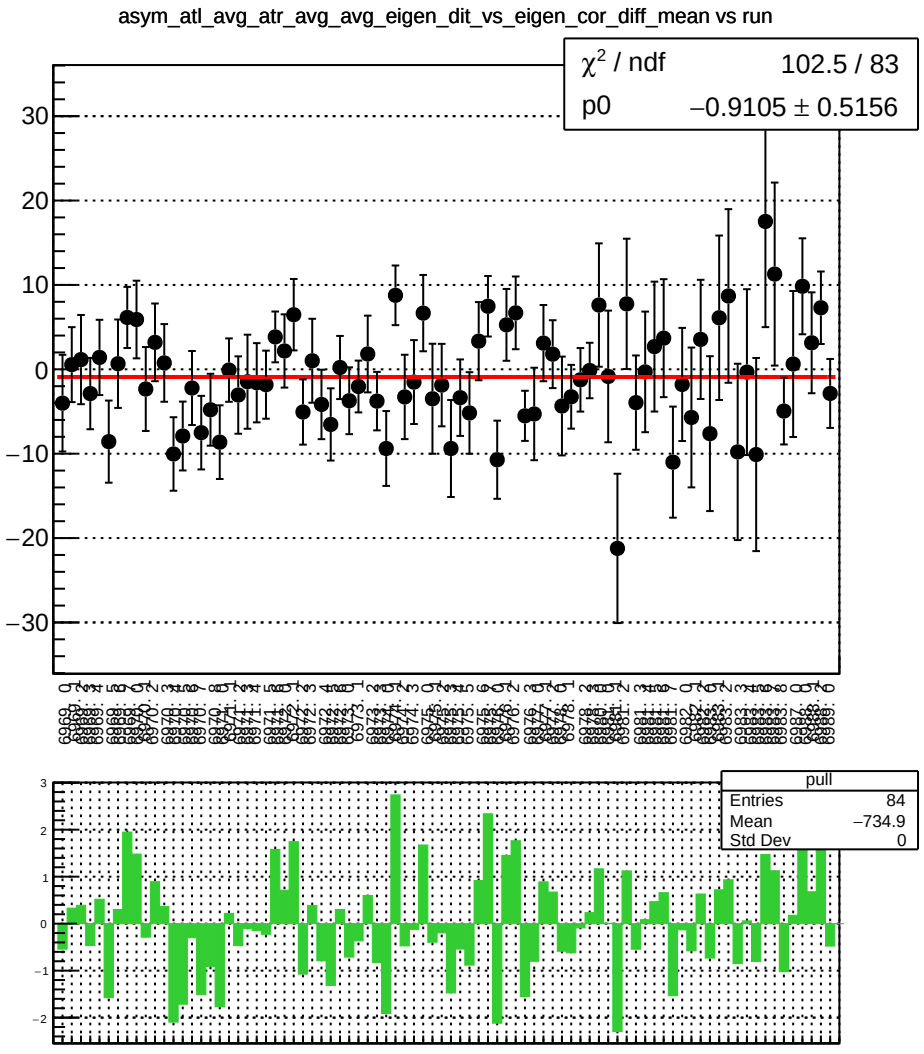

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 81.47 / 83
p0 −7.591e−06 ± 9.624e−06
pull
Entries 84
Mean −47.06
Std Dev 0

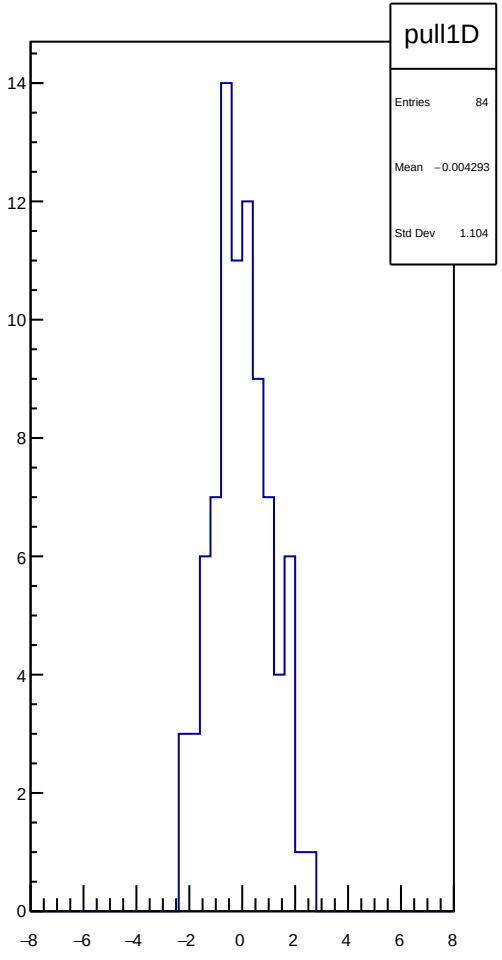

pull1D
Entries 84
Mean −0.01337
Std Dev 0.9847

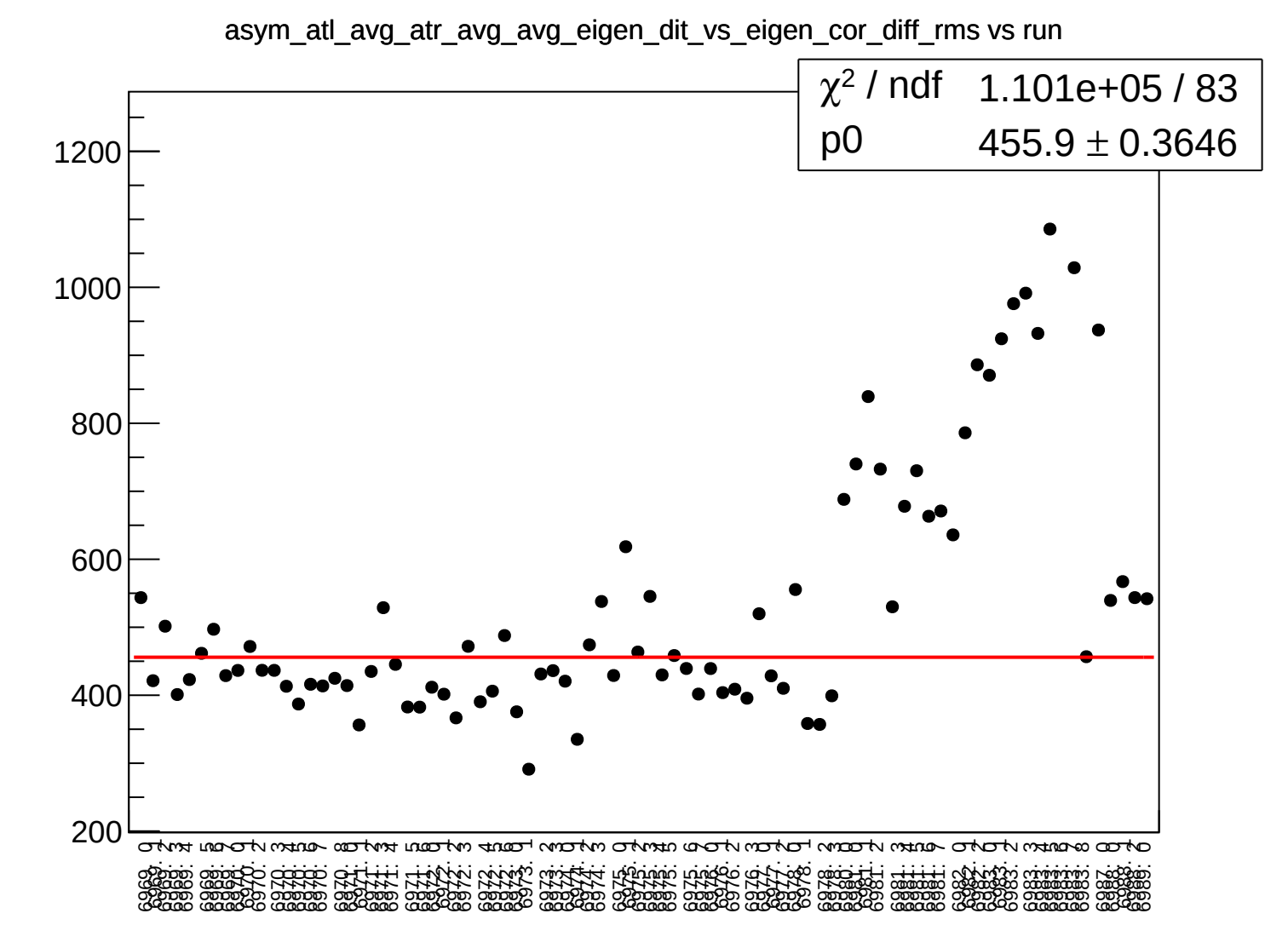

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.165e+04 / 83
p0 0.008747 ± 6.805e−06
0.011
0.01
0.009
0.008
0.007

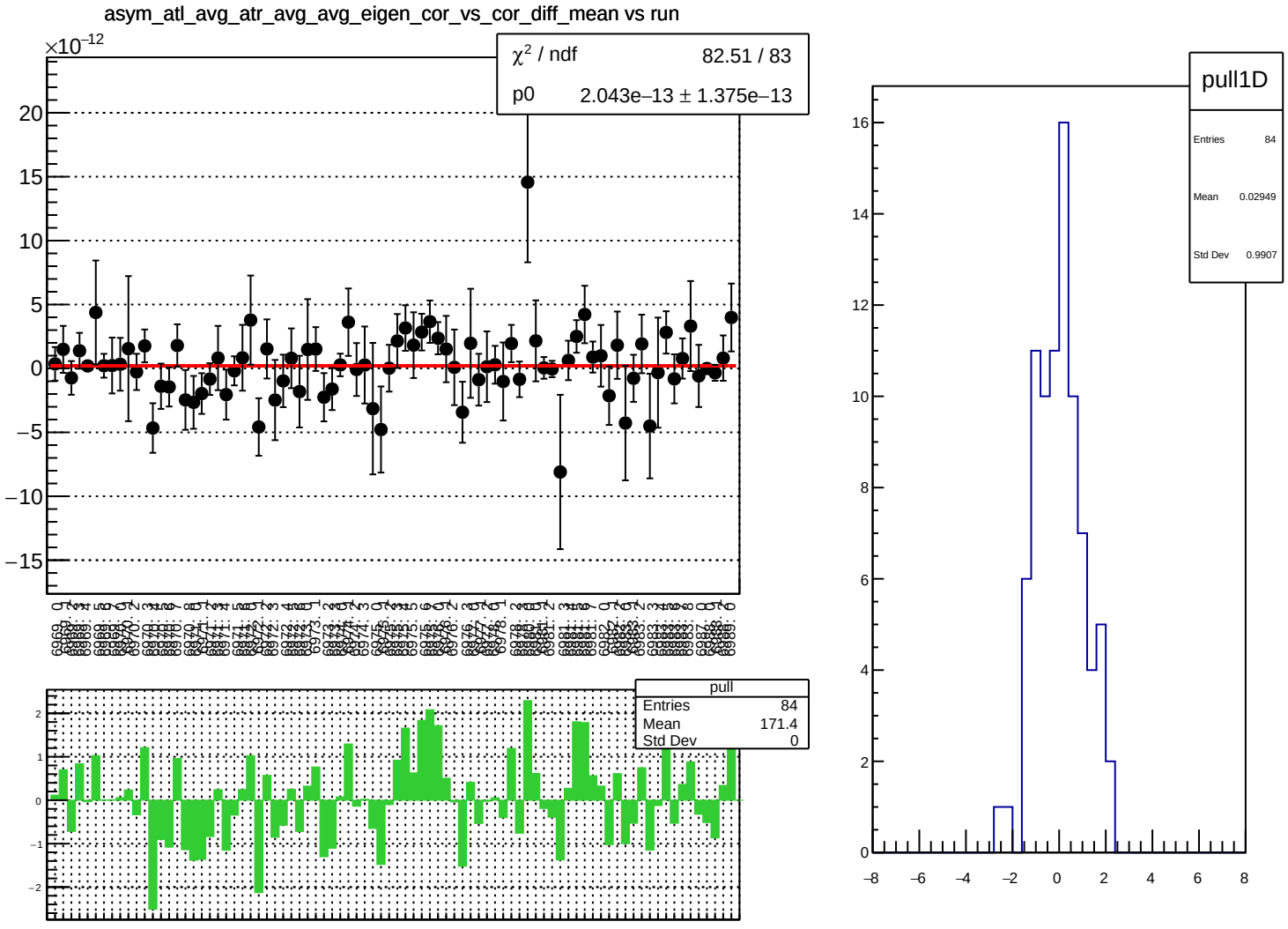

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 83
p0 −0.9105 ± 0.5156
pull
Entries 84
Mean −734.9
Std Dev 0
pull1D
Entries 84
Mean −0.004293
Std Dev 1.104

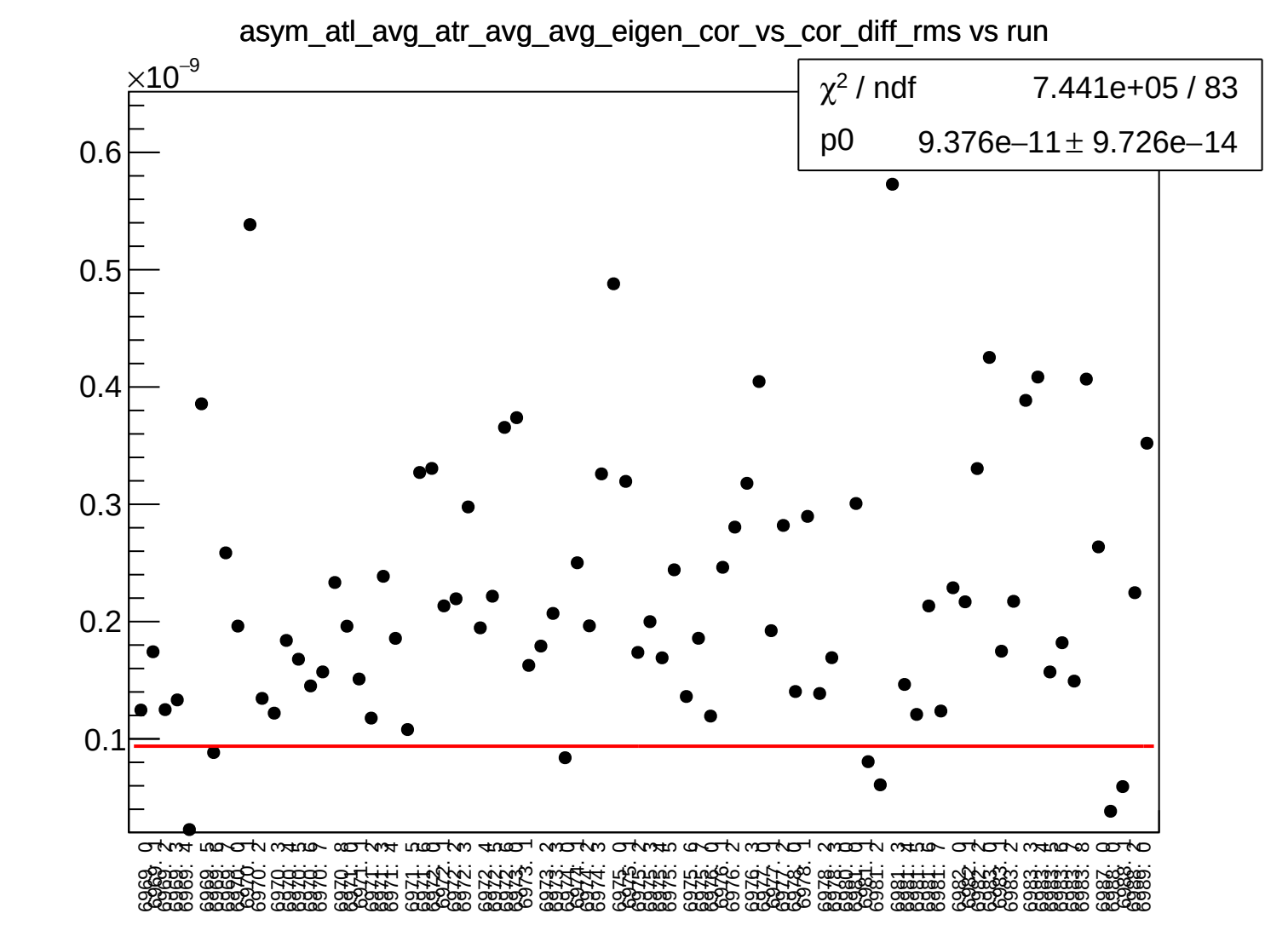

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 83
p0 455.9 ± 0.3646
1200
1000
800
600
400
200

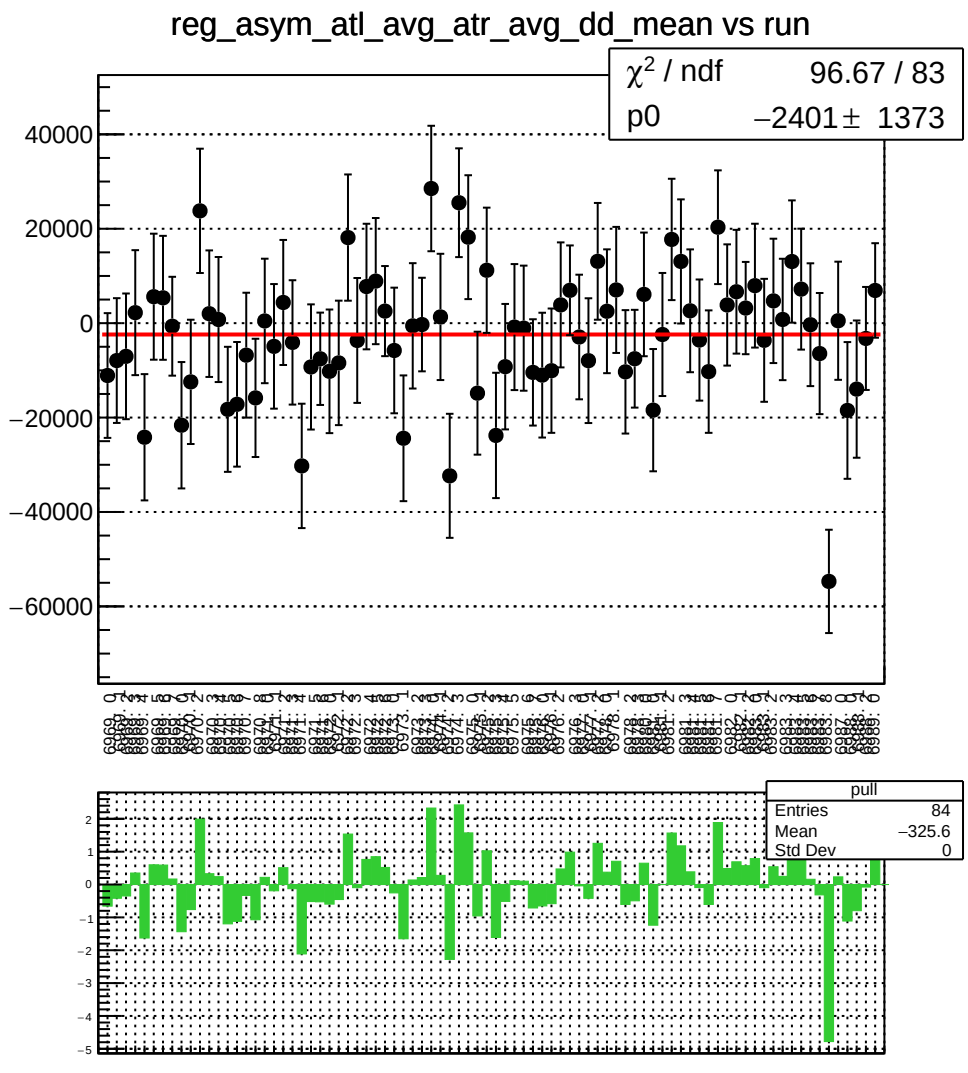

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.5 / 83
p0 −0.9105 ± 0.5156
pull
Entries 84
Mean −734.9
Std Dev 0

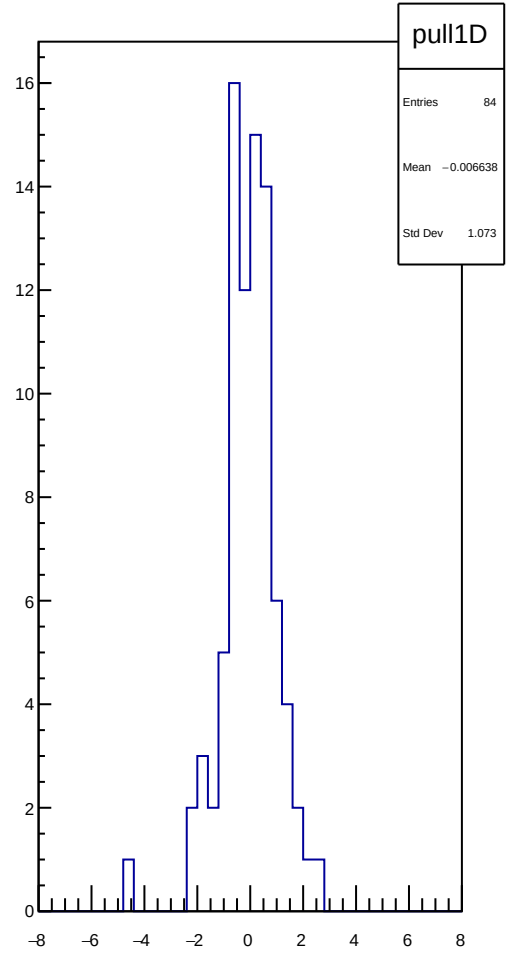

pull1D
Entries 84
Mean −0.004293
Std Dev 1.104

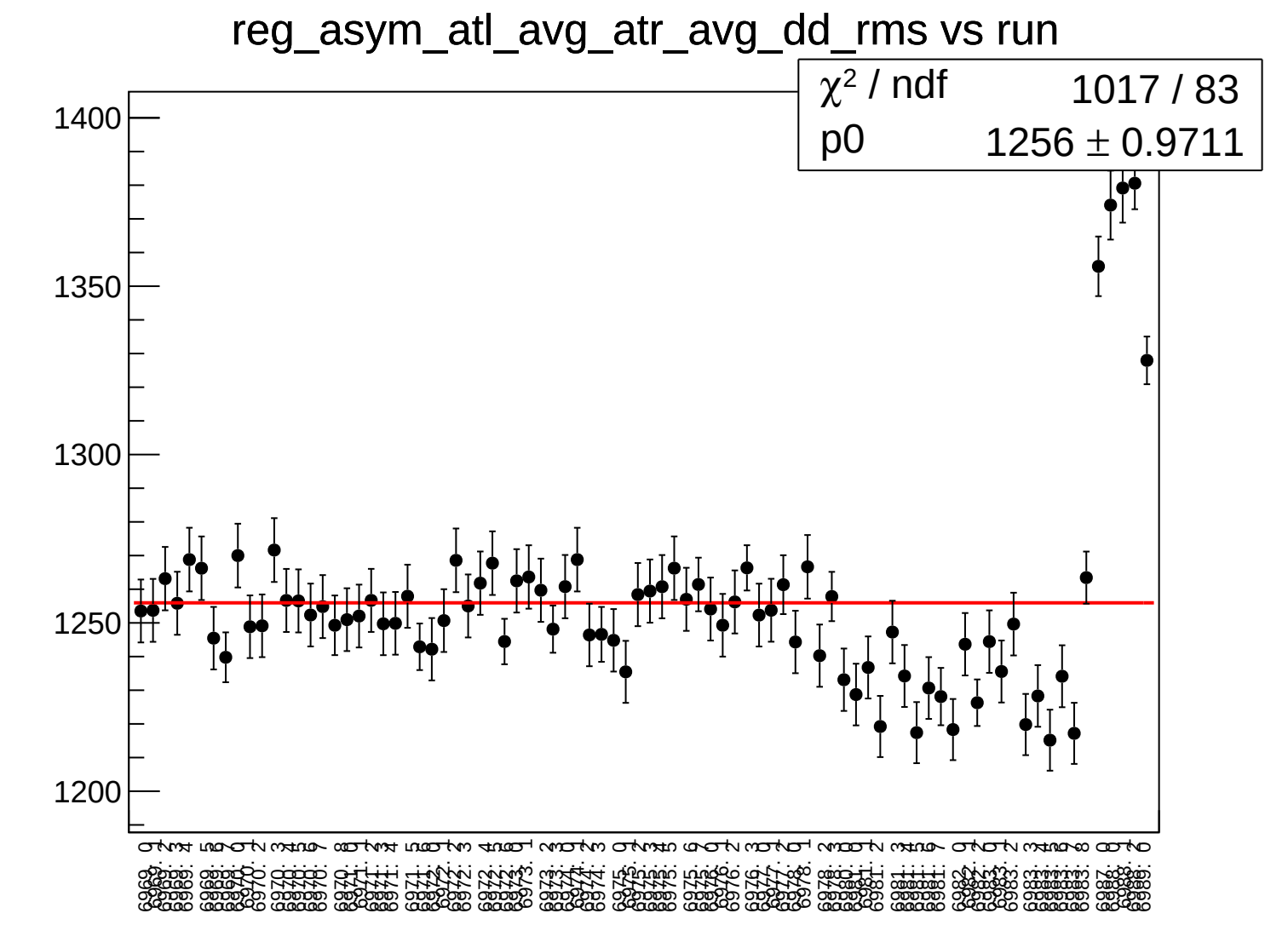

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 83
p0 455.9 ± 0.3646
1200
1000
800
600
400
200

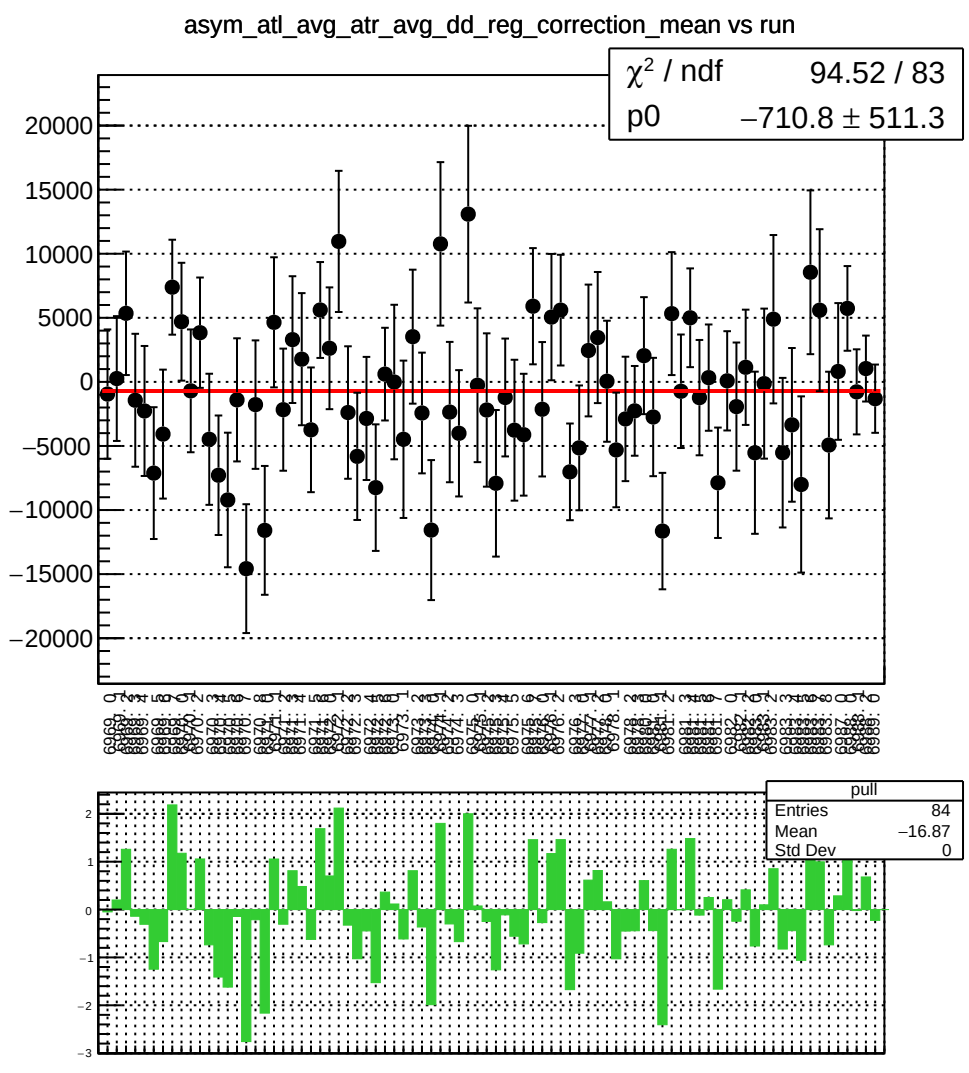

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.51 / 83
p0 2.043e−13 ± 1.375e−13
pull
Entries 84
Mean 171.4
Std Dev 0
pull1D
Entries 84
Mean 0.02949
Std Dev 0.9907

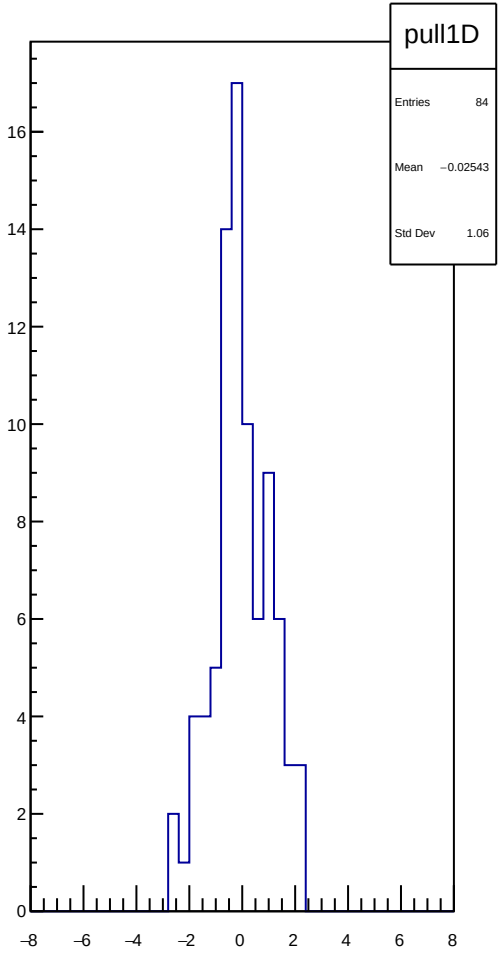

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.441e+05 / 83
p0 9.376e−11 ± 9.726e−14
0.6
0.5
0.4
0.3
0.2
0.1

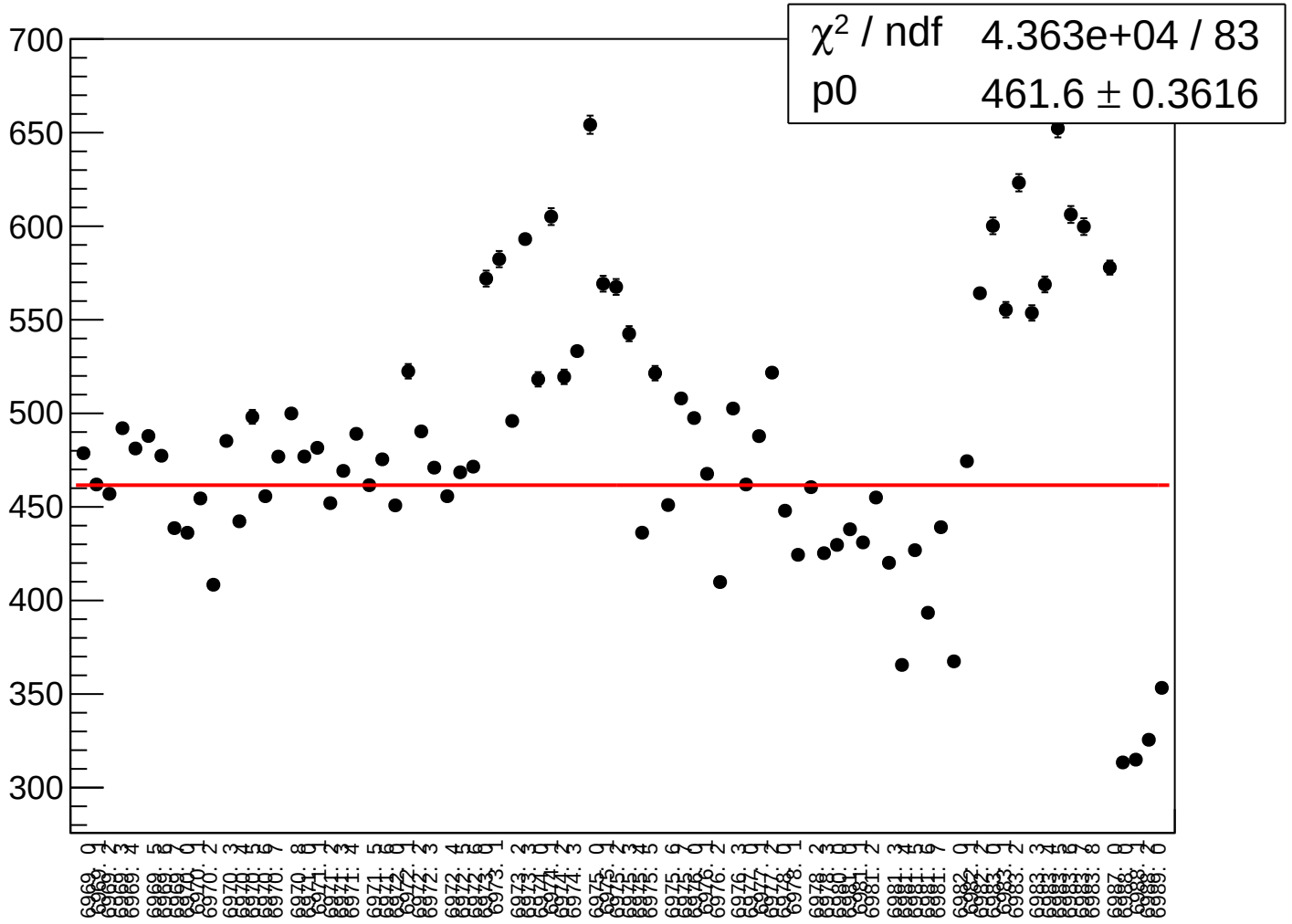

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.67 / 83
p0 −2401 ± 1373
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −325.6
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

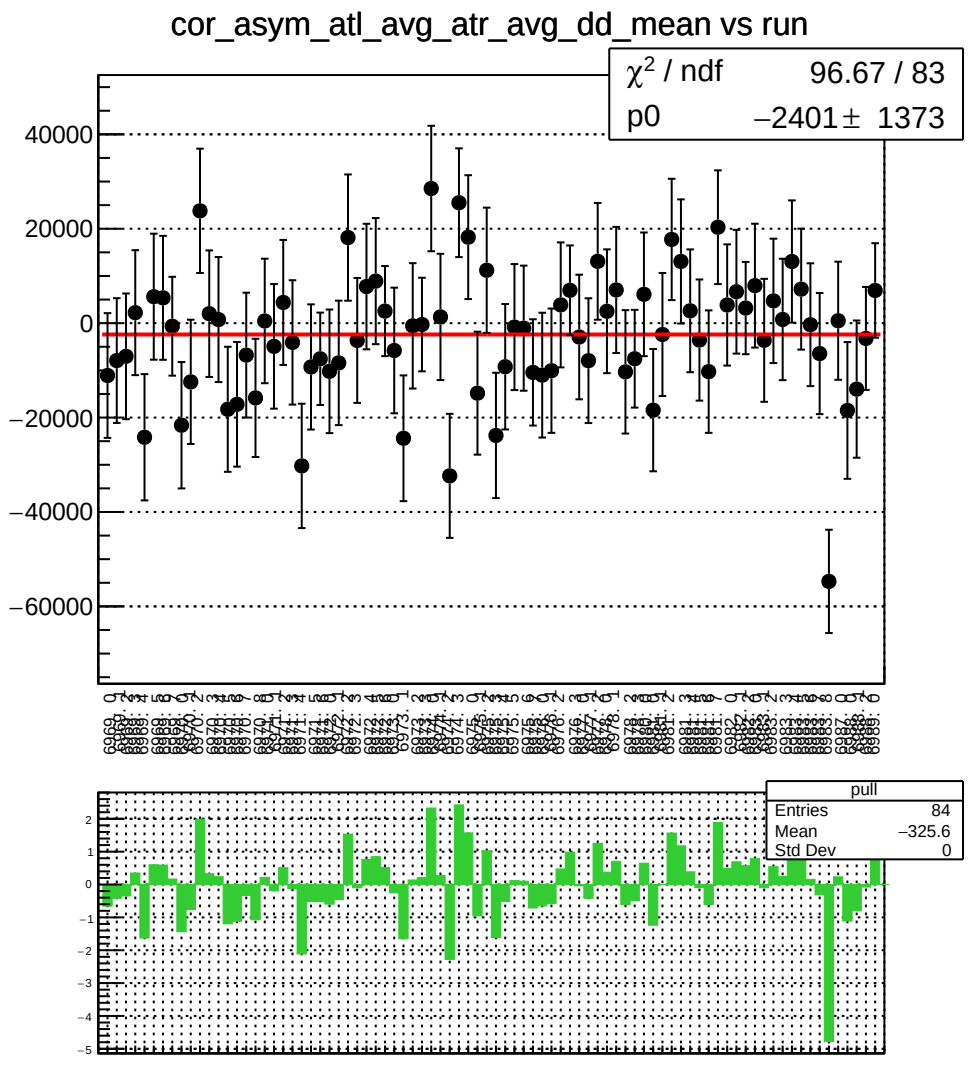

pull1D
Entries 84
Mean −0.006638
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

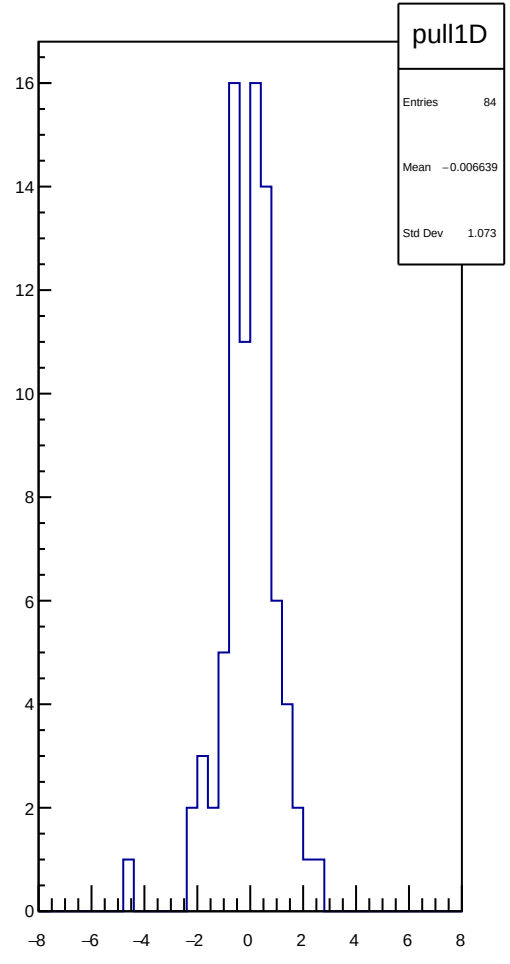

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1017 / 83
p0 1256 ± 0.9711
1400
1350
1300
1250
1200

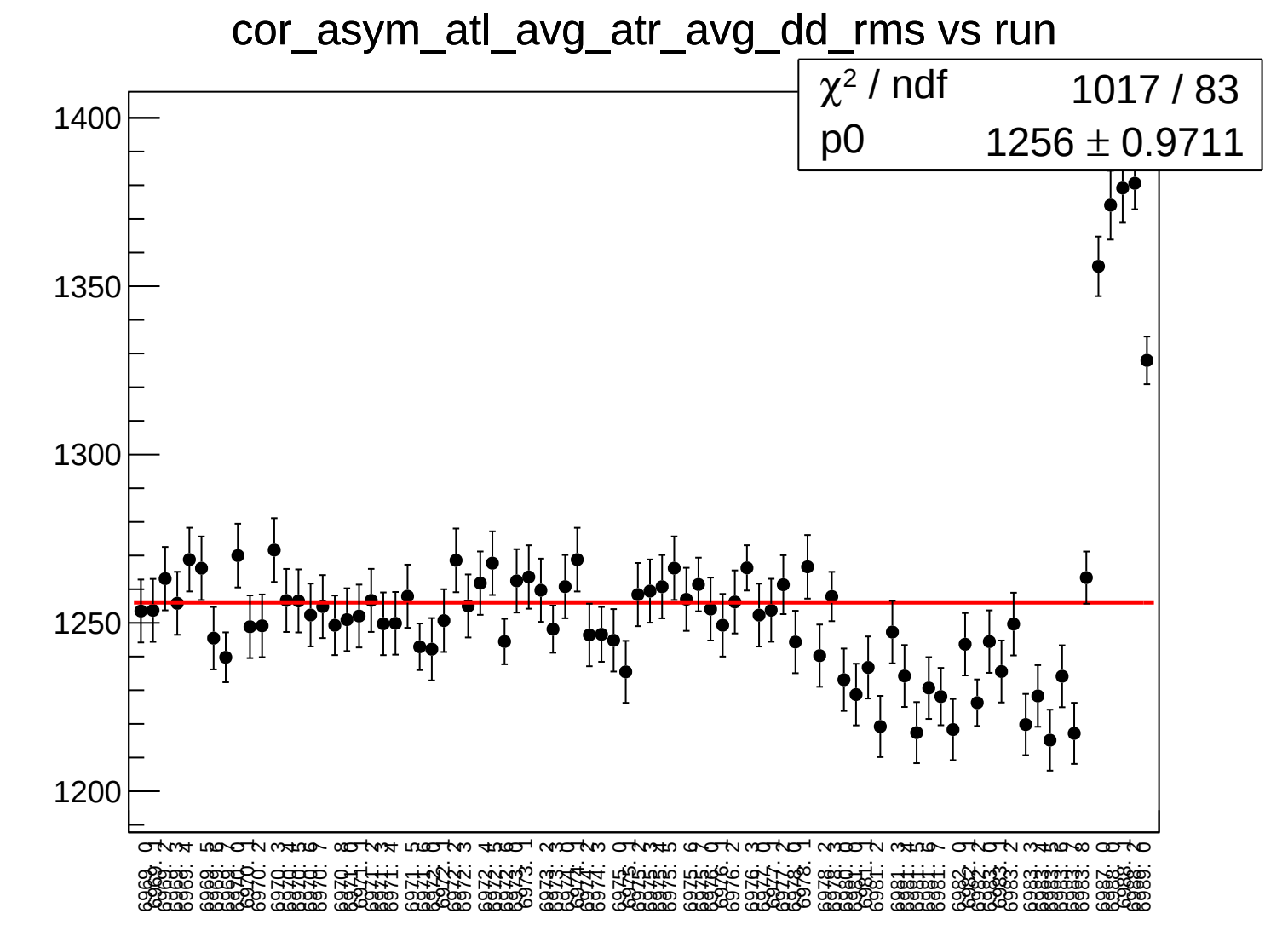

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 94.52 / 83
p0 −710.8 ± 511.3
pull
Entries 84
Mean −16.87
Std Dev 0

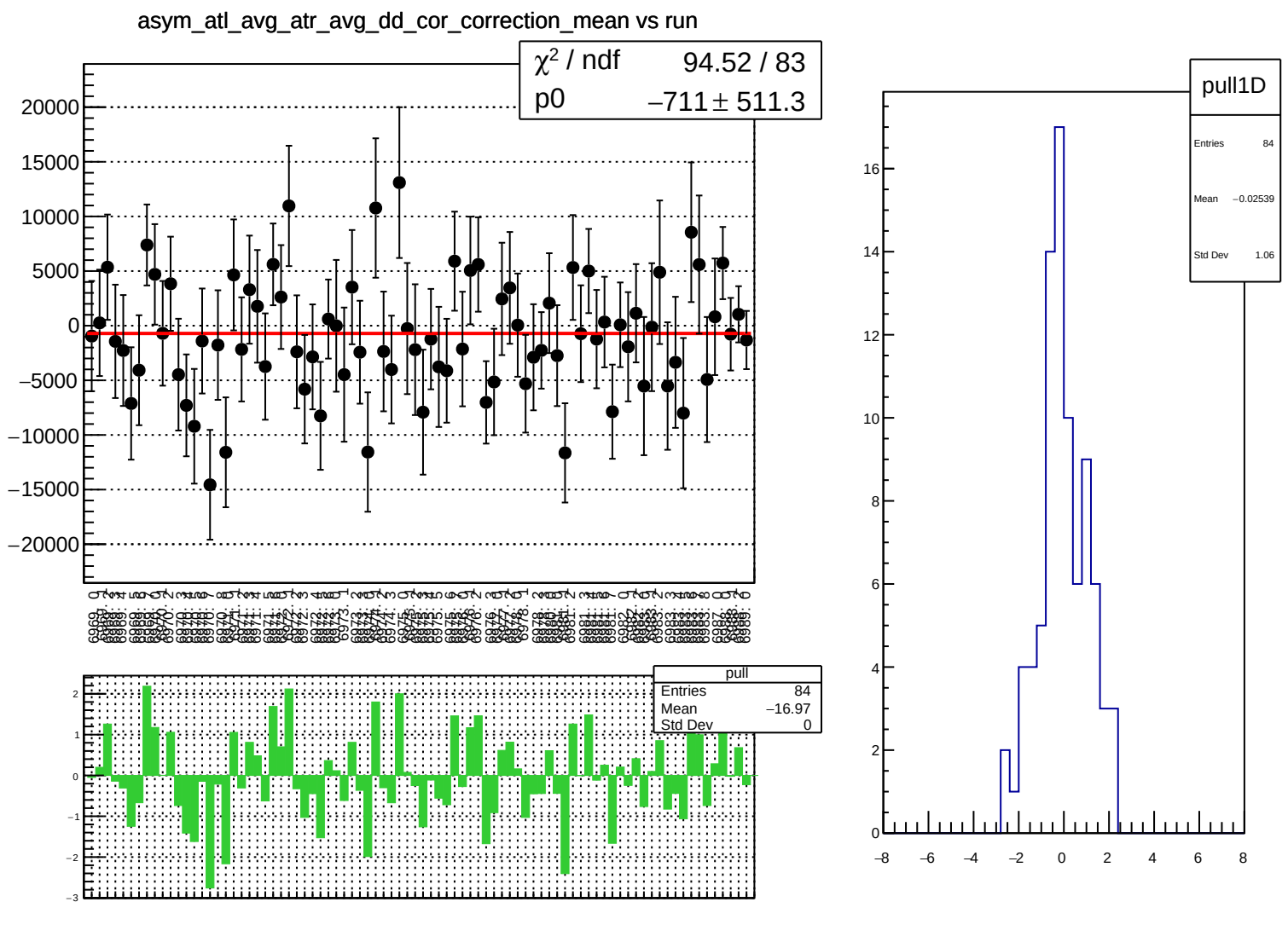

pull1D
Entries 84
Mean −0.02543
Std Dev 1.06

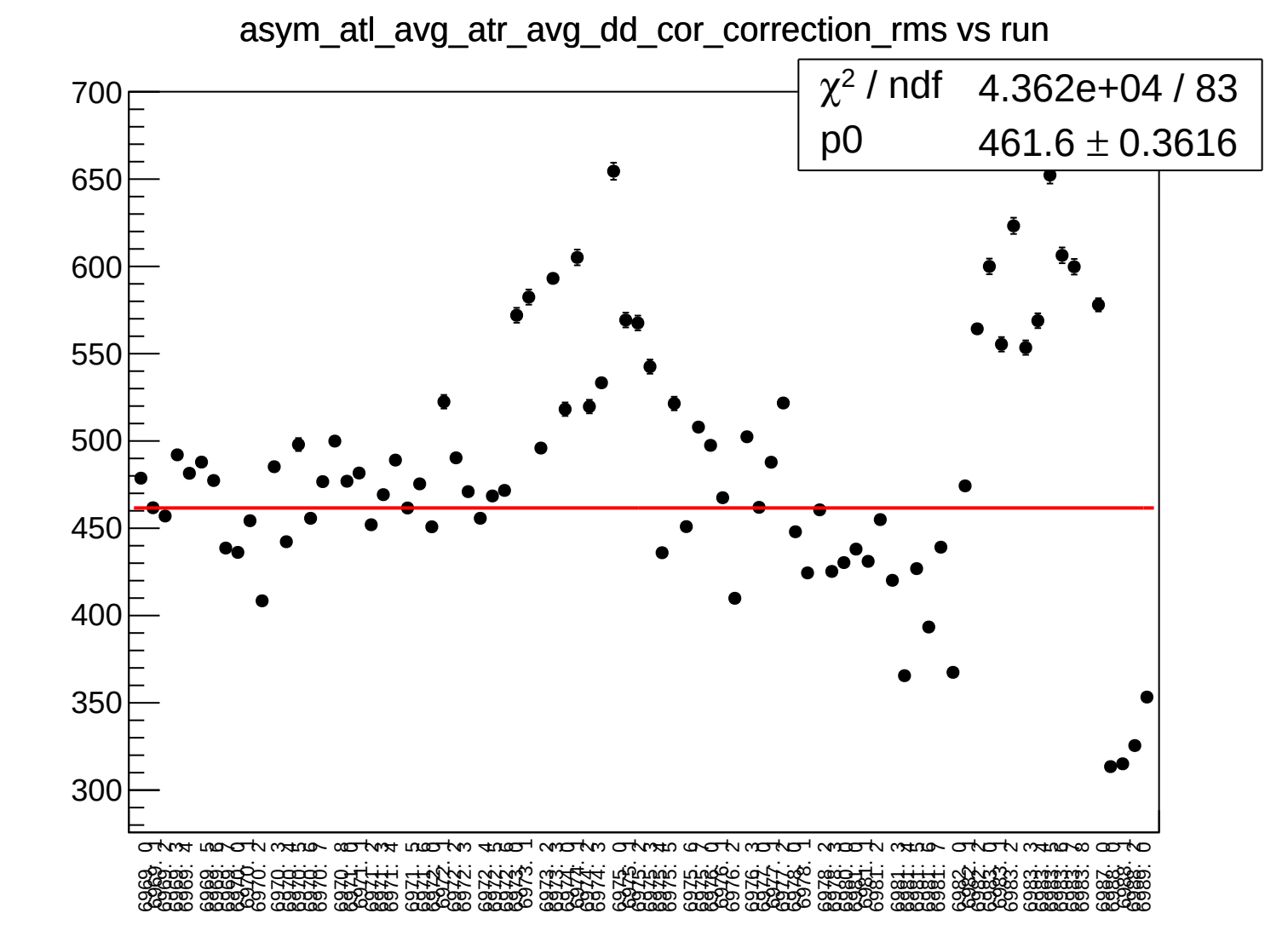

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 4.363e+04 / 83
p0 461.6 ± 0.3616
700
650
600
550
500
450
400
350
300

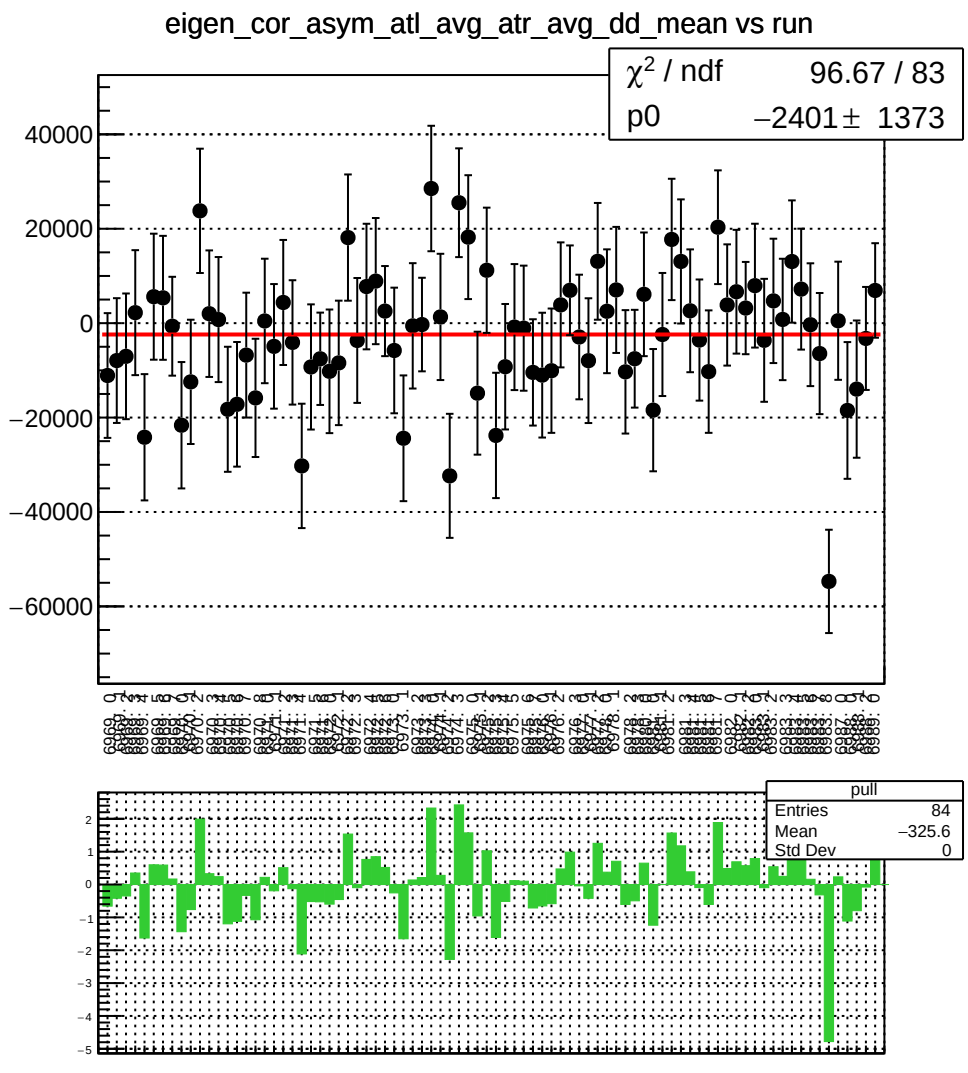

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.67 / 83
p0 −2401 ± 1373
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −325.6
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

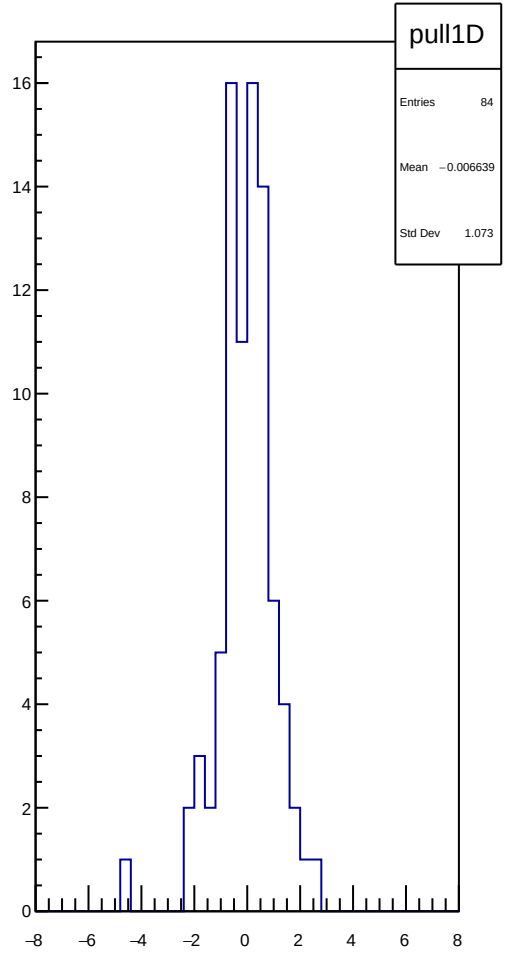

pull1D
Entries 84
Mean −0.006639
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

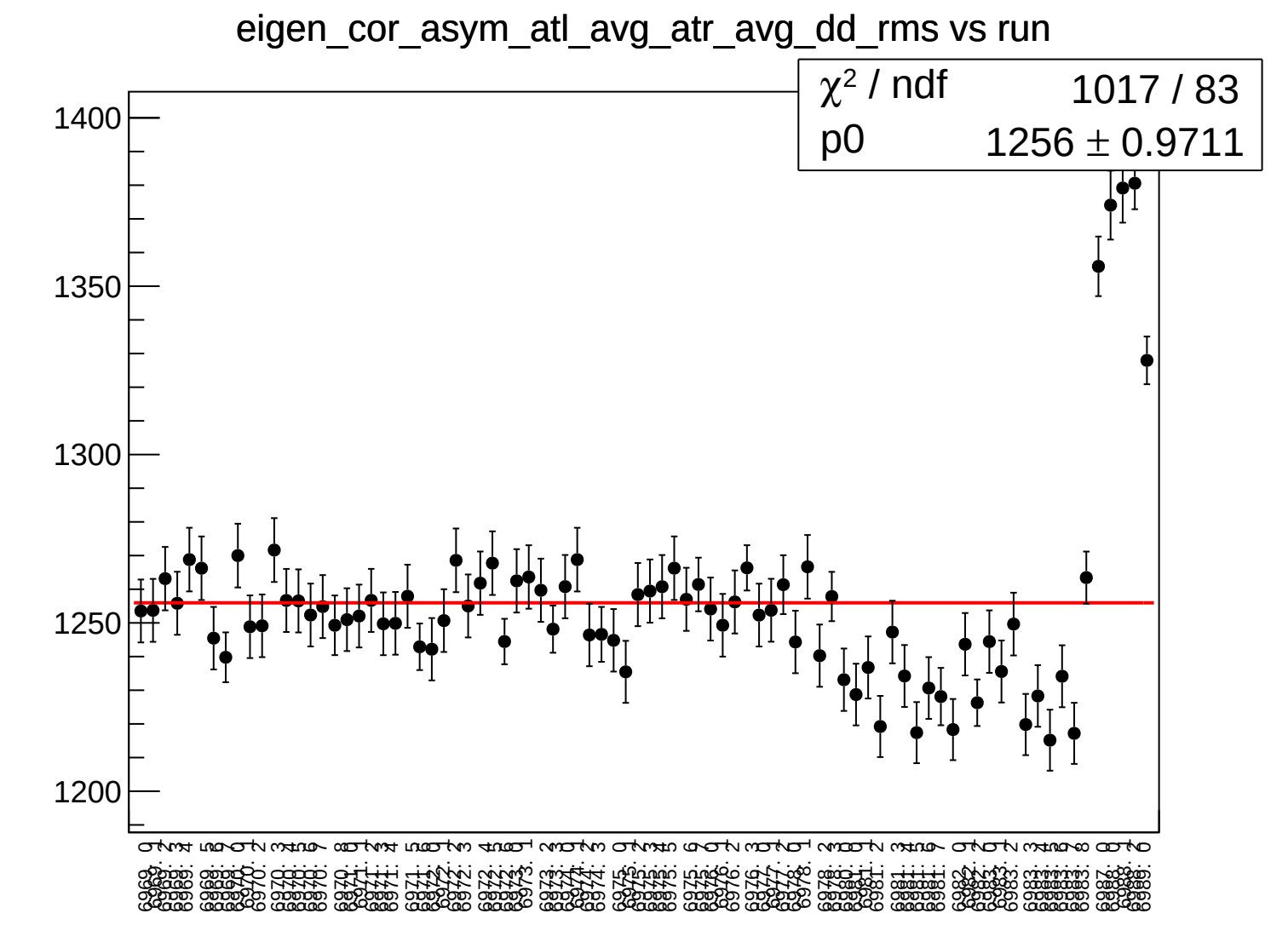

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1017 / 83
p0 1256 ± 0.9711
1400
1350
1300
1250
1200

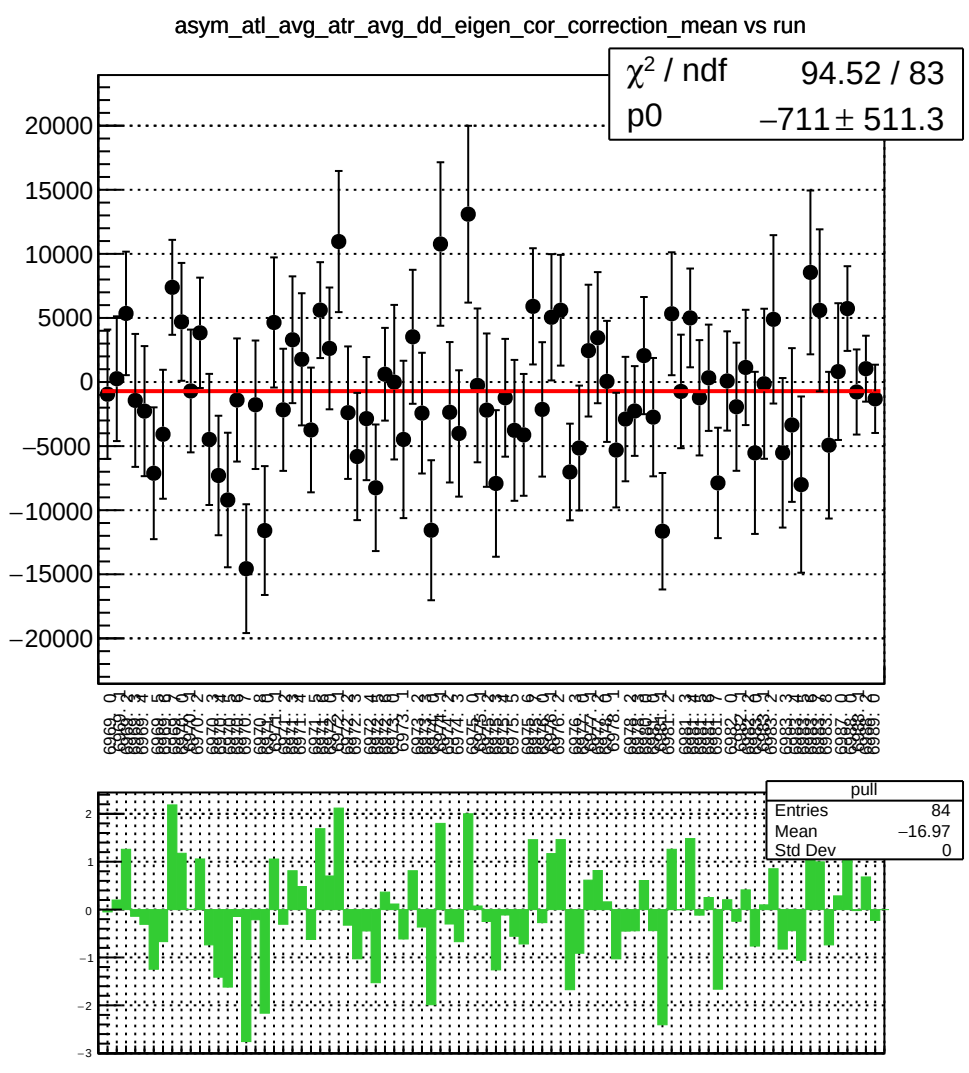

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 94.52 / 83
p0 −711 ± 511.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −16.97
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.02539
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

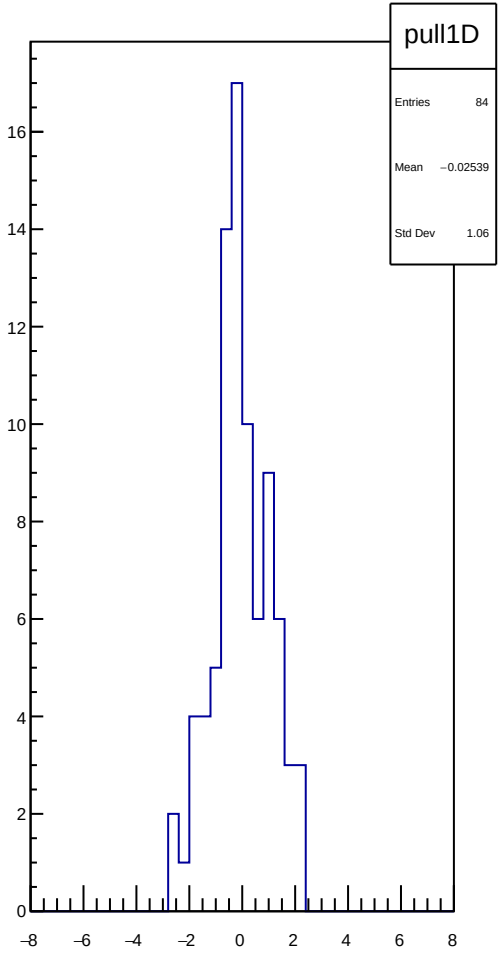

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 4.362e+04 / 83
p0 461.6 ± 0.3616
700
650
600
550
500
450
400
350
300

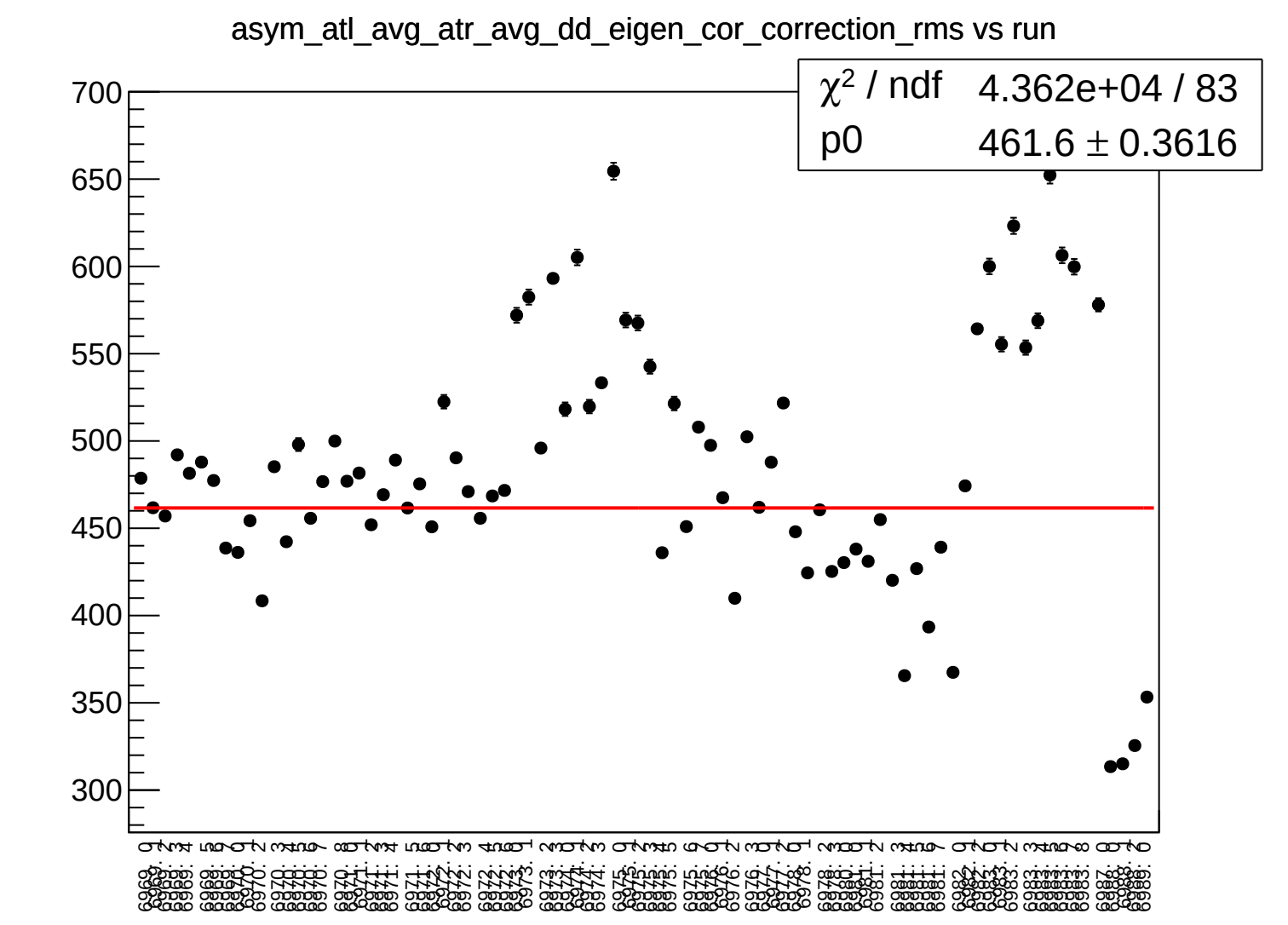

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.67 / 83
p0 −2401 ± 1373
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −325.6
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

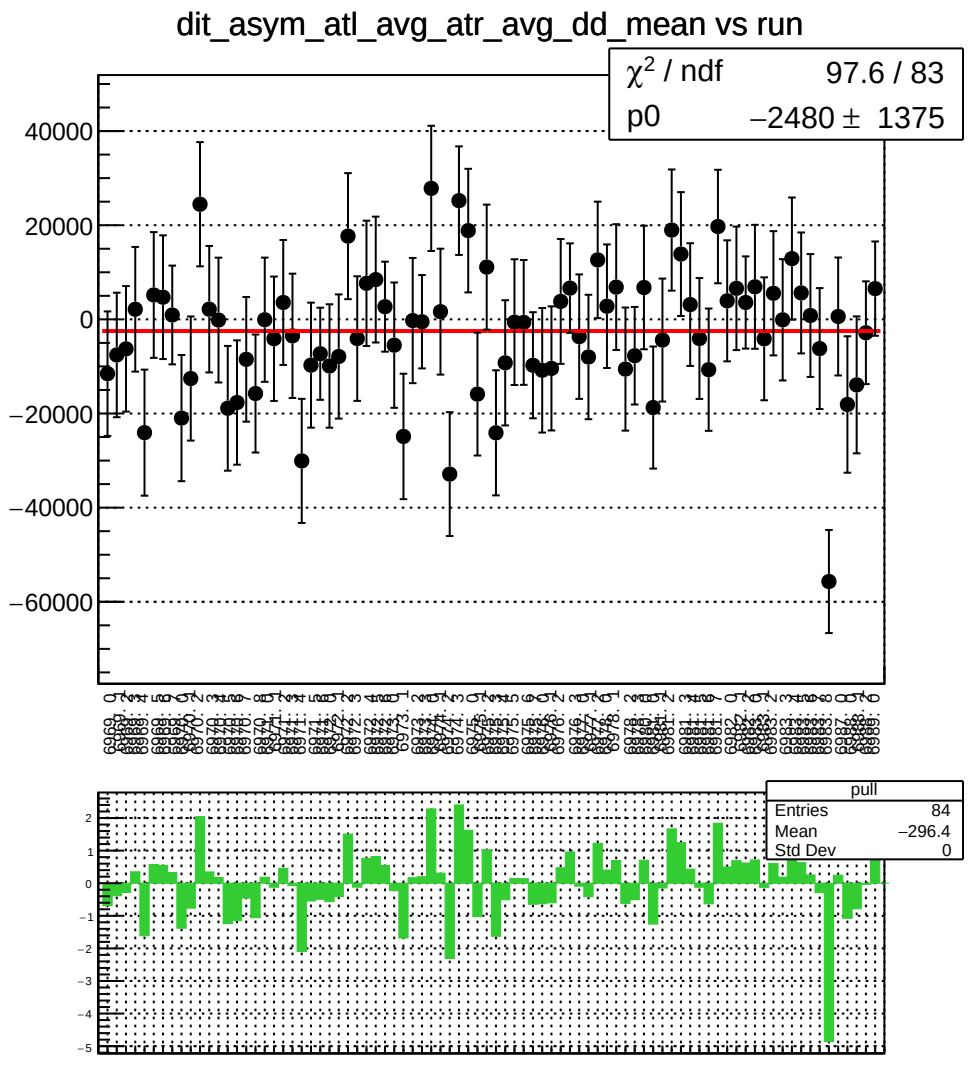

pull1D
Entries 84
Mean −0.006639
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

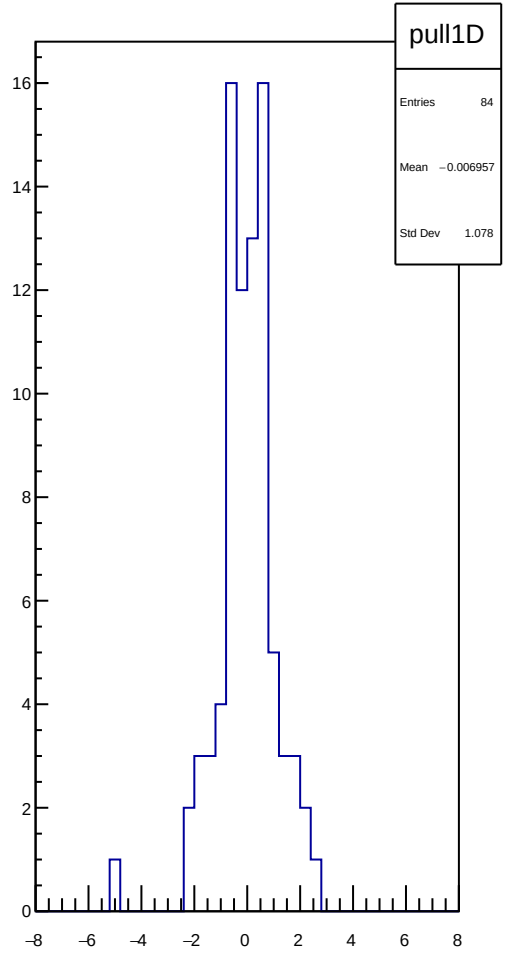

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1017 / 83
p0 1256 ± 0.9711
1400
1350
1300
1250
1200

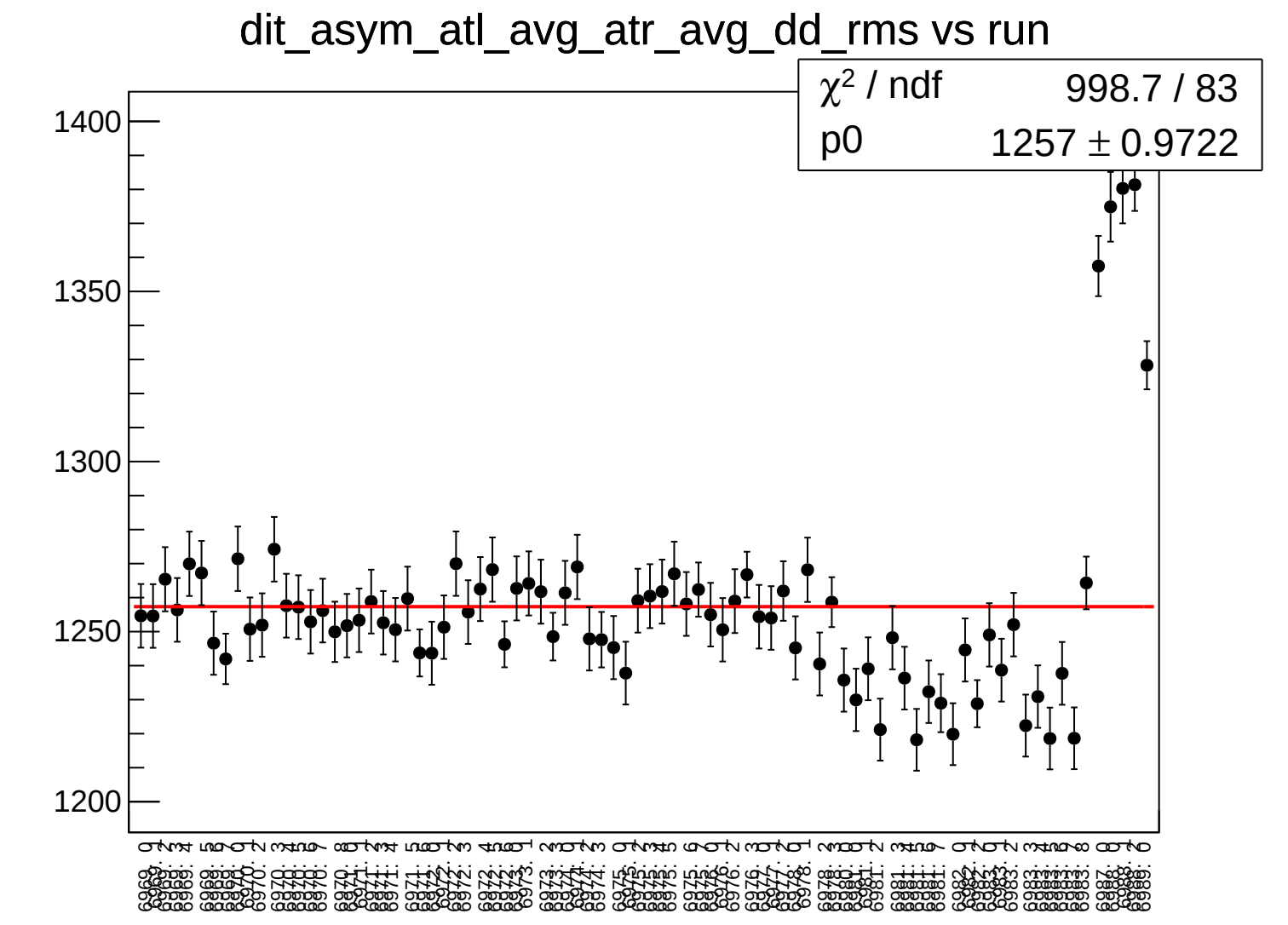

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.52 / 83
p0 −711 ± 511.3
pull
Entries 84
Mean −16.97
Std Dev 0

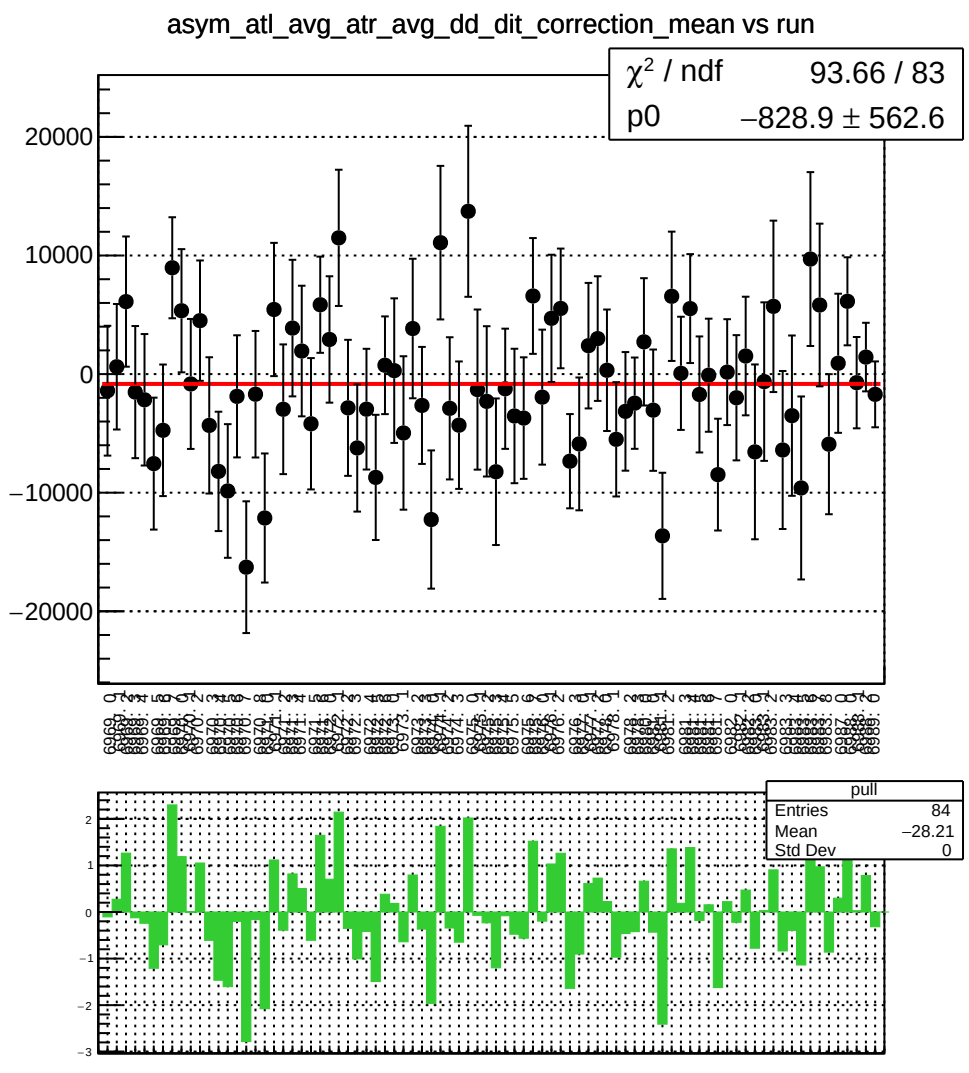

pull1D
Entries 84
Mean −0.02539
Std Dev 1.06

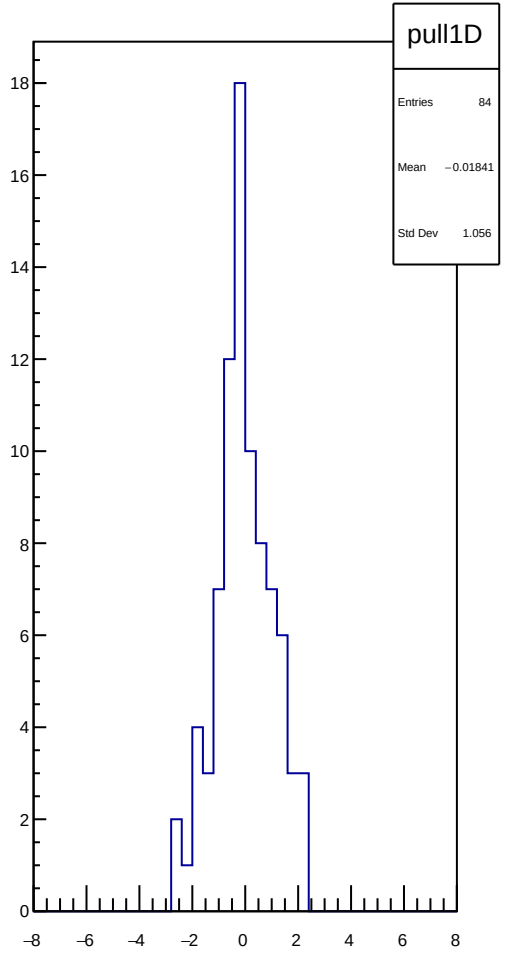

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.362e+04 / 83
p0 461.6 ± 0.3616
700
650
600
550
500
450
400
350
300

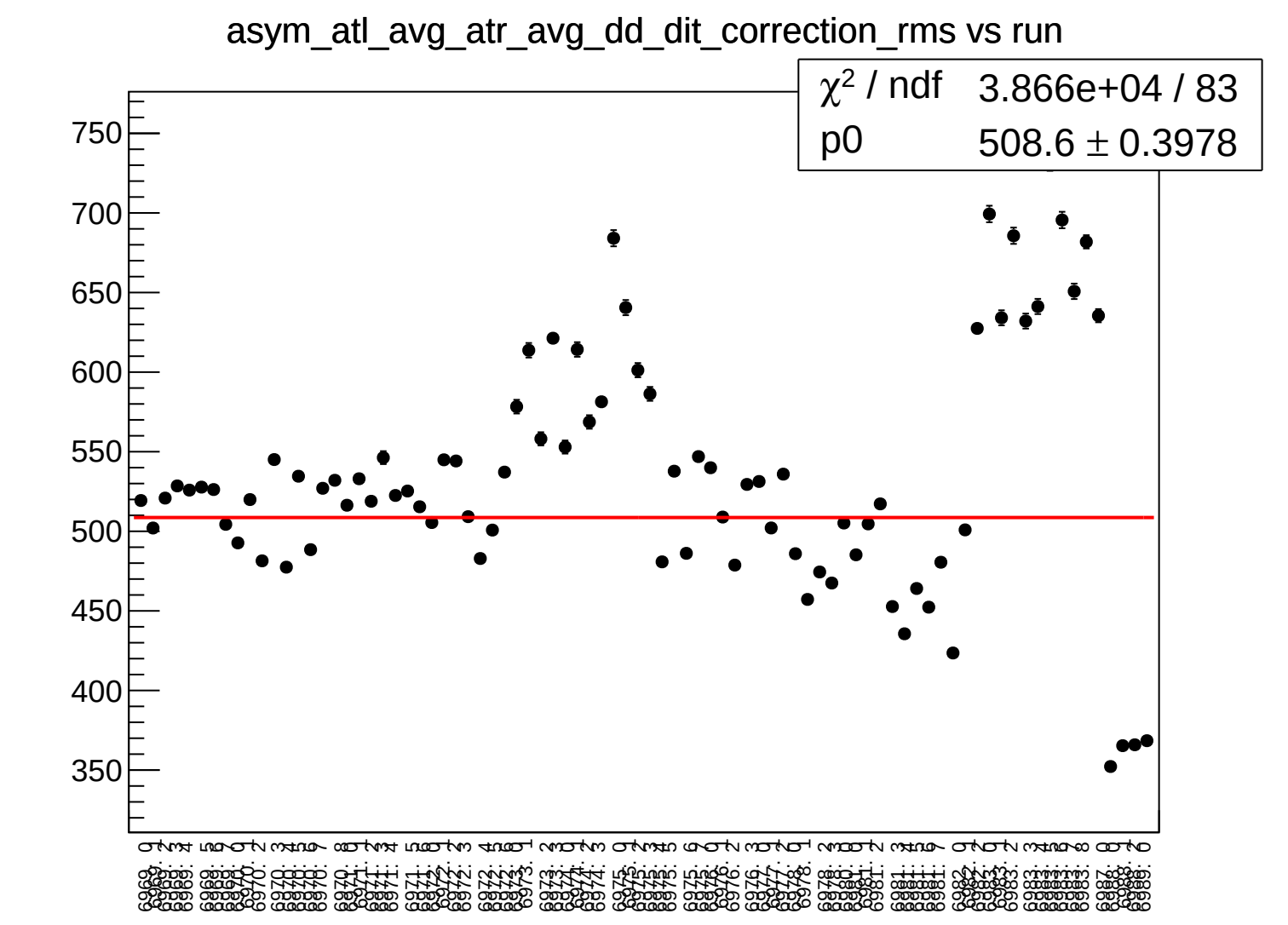

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.6 / 83
p0 −2480 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −296.4
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

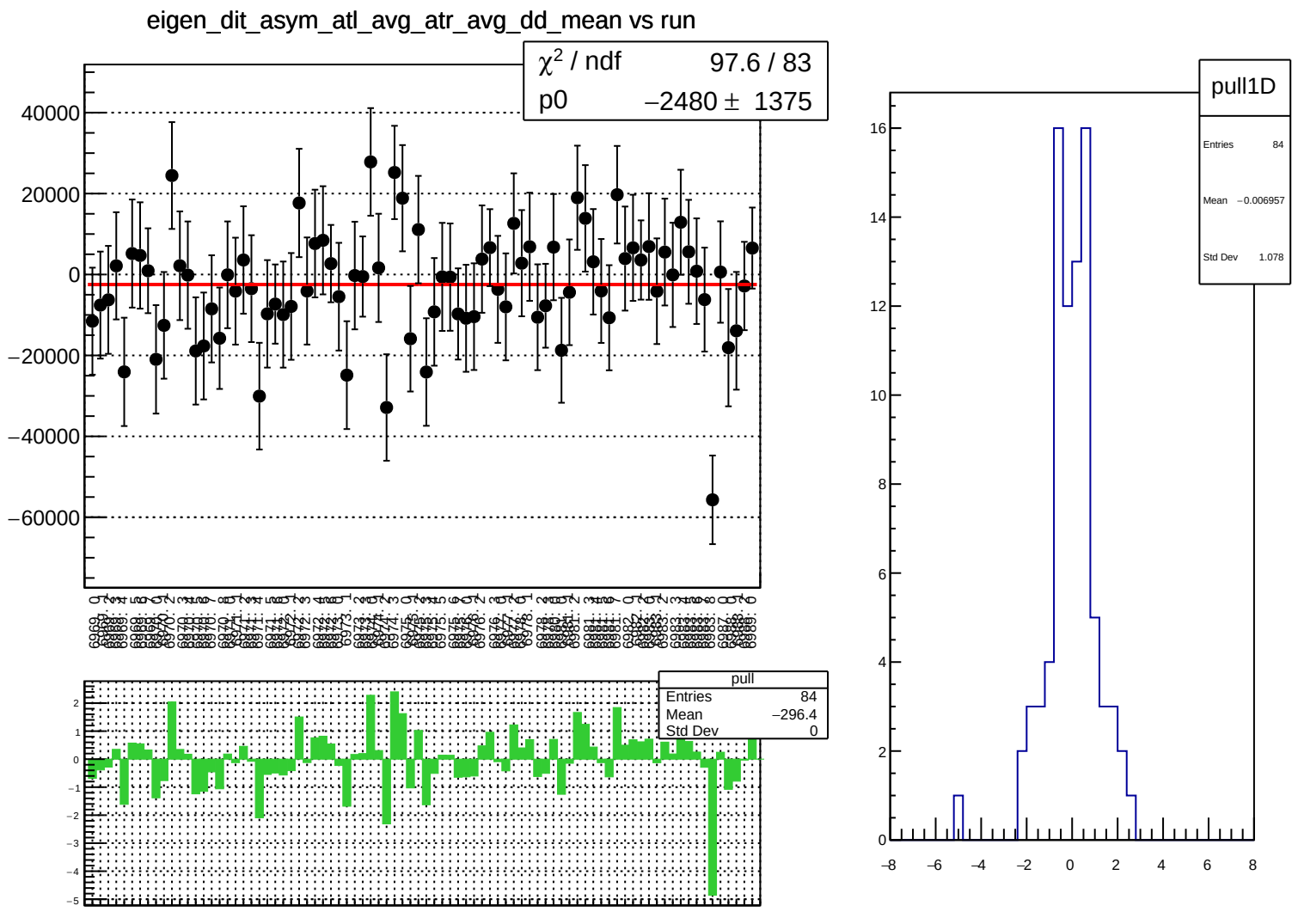

pull1D
Entries 84
Mean −0.006957
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

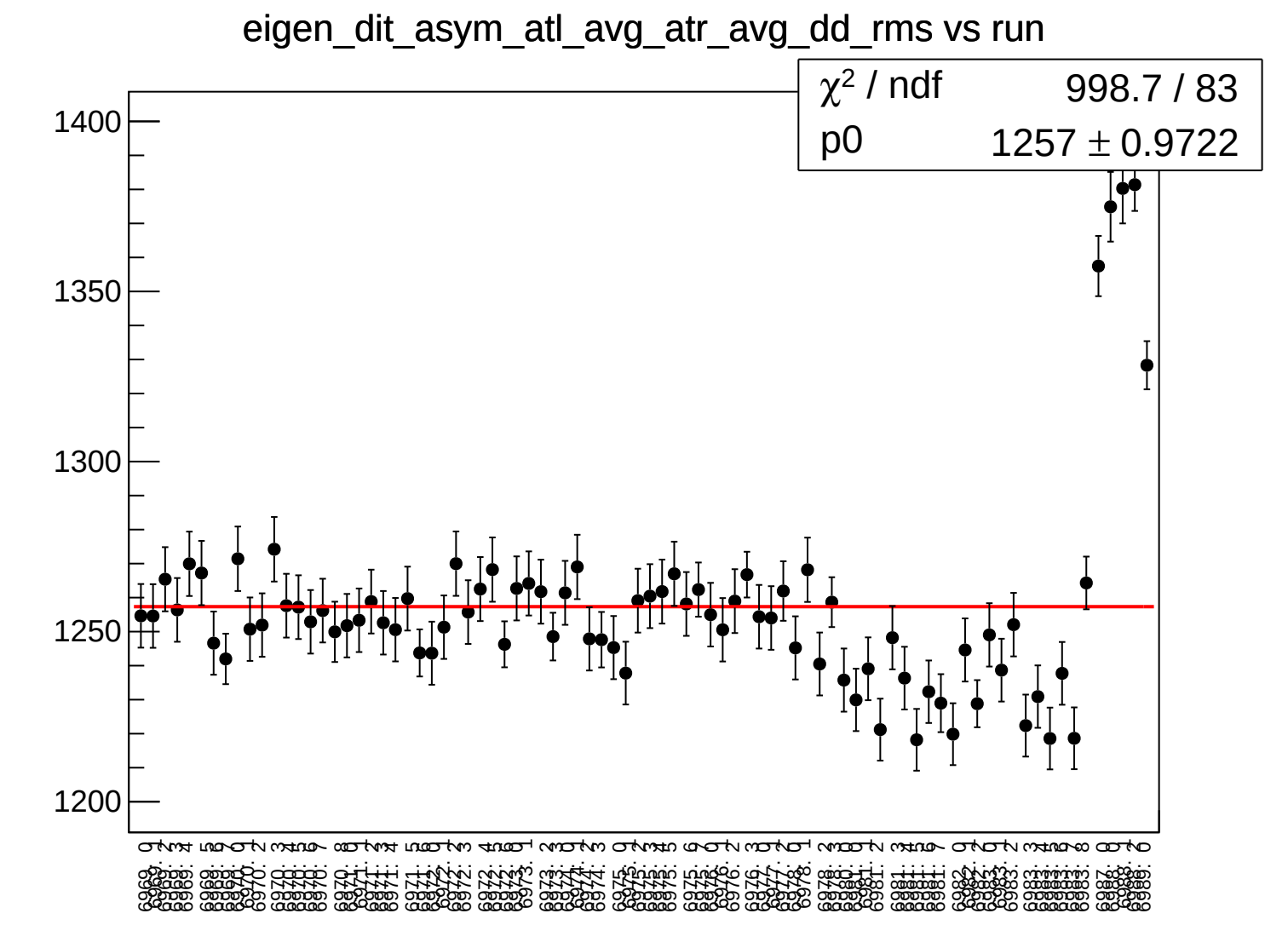

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 998.7 / 83
p0 1257 ± 0.9722
1400
1350
1300
1250
1200

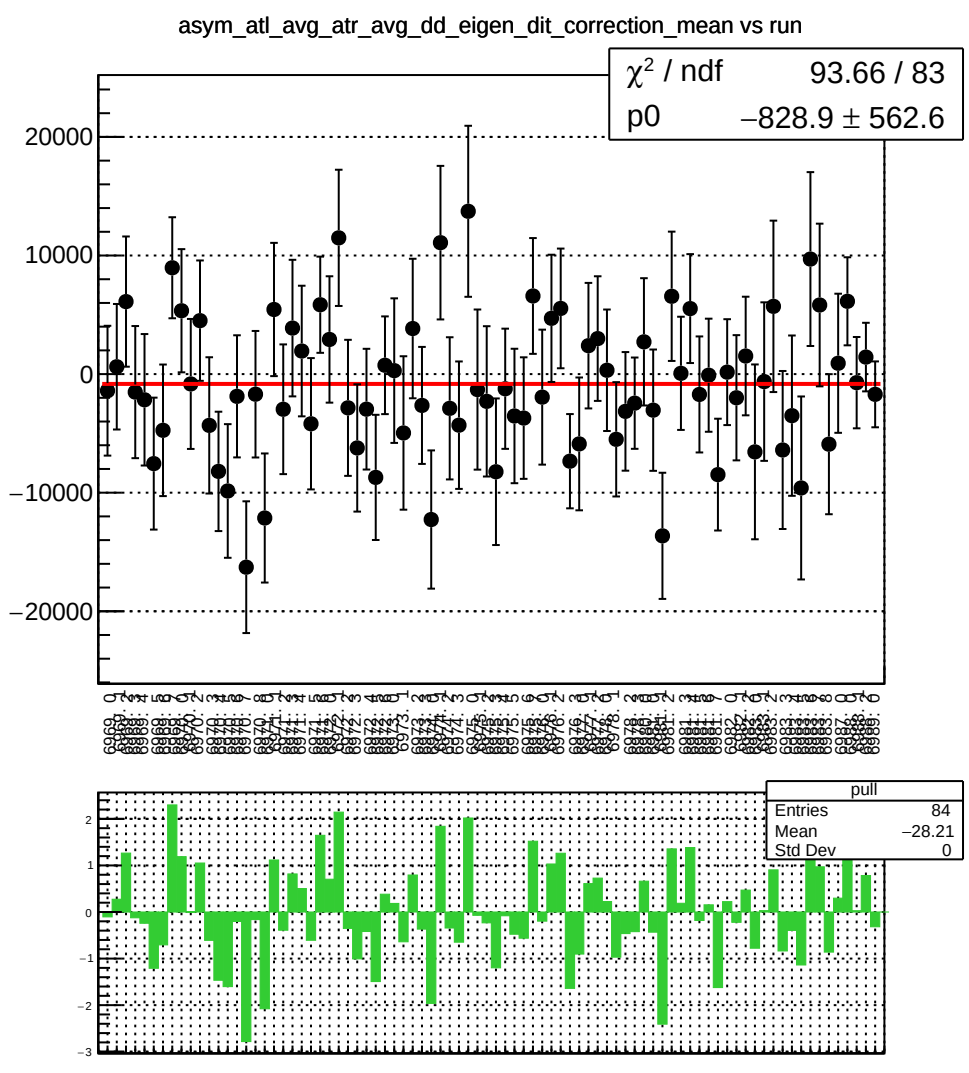

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 93.66 / 83
p0 −828.9 ± 562.6
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −28.21
Std Dev 0
2
1
0
−1
−2
−3

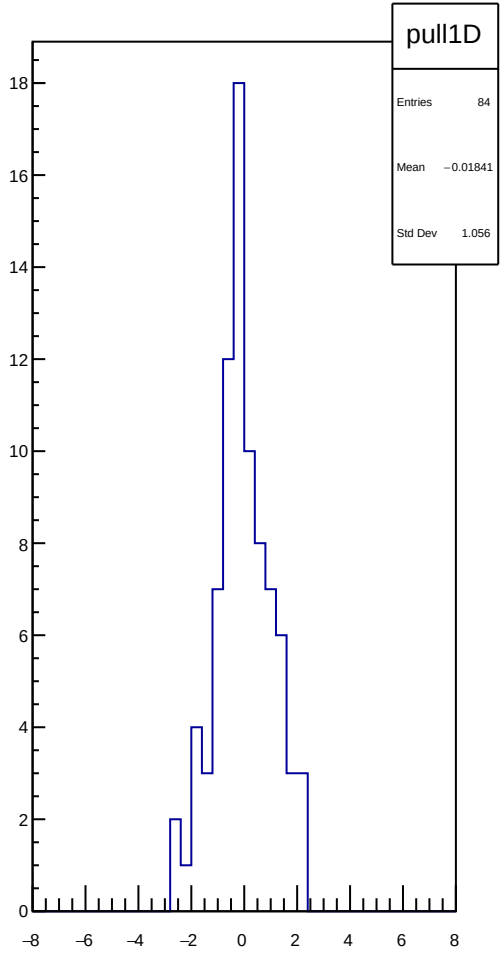

pull1D
Entries 84
Mean −0.01841
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

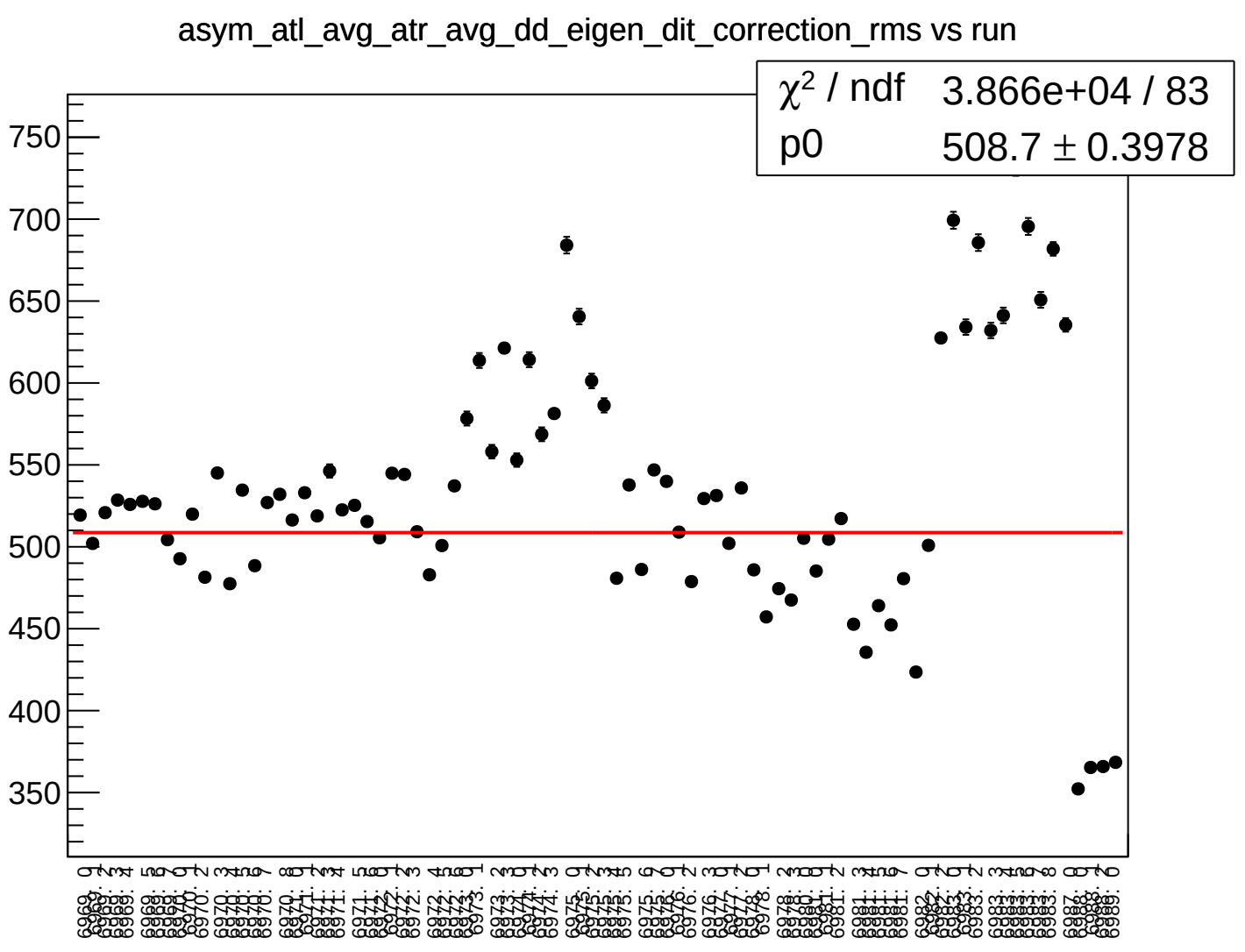

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.866e+04 / 83
p0 508.6 ± 0.3978
750
700
650
600
550
500
450
400
350

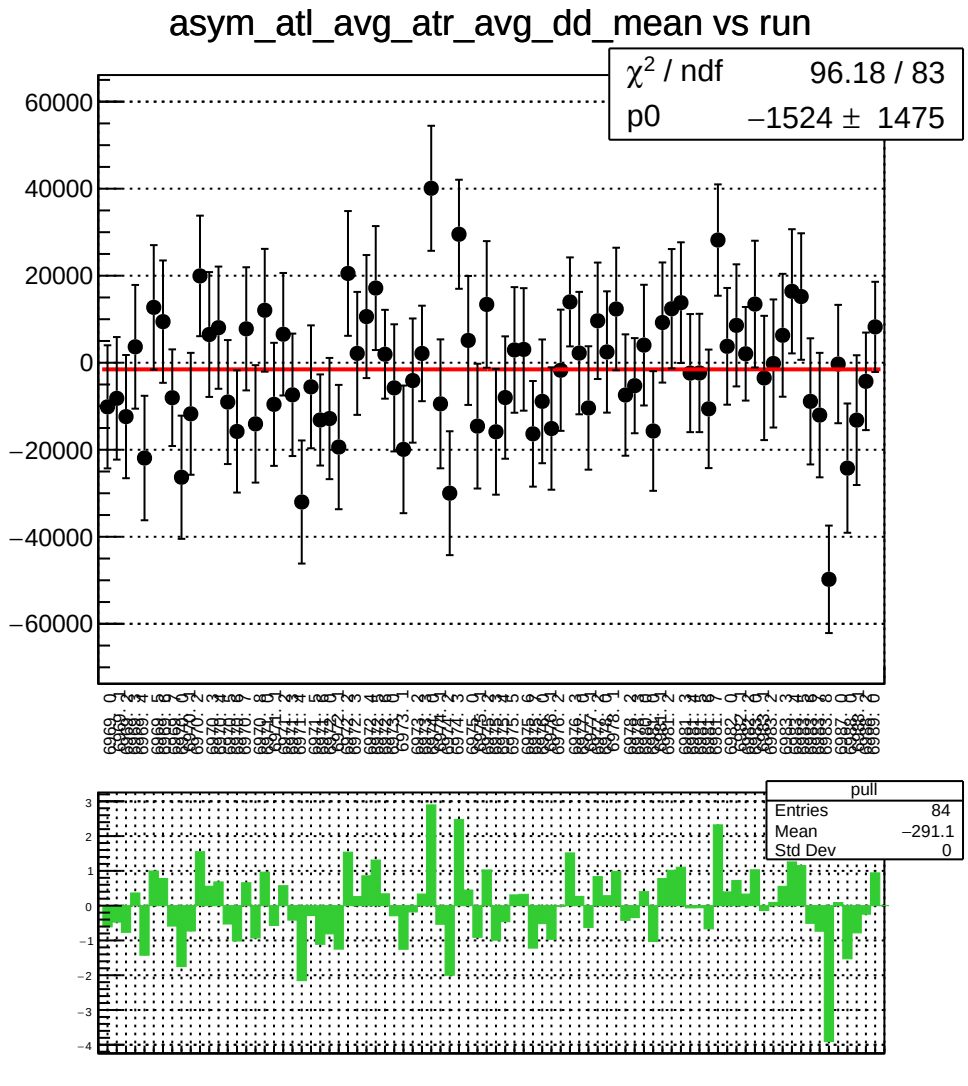

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.6 / 83
p0 −2480 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −296.4
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 84
Mean −0.006957
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

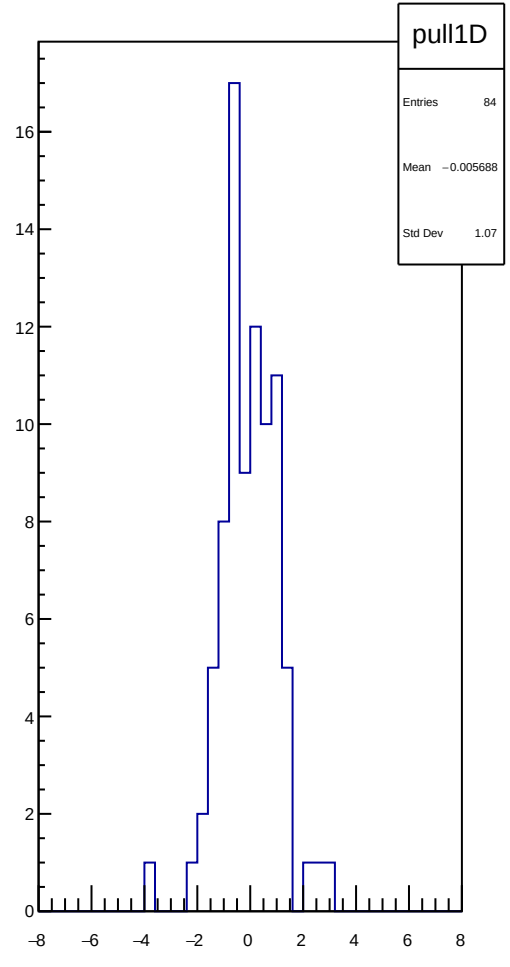

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 998.7 / 83
p0 1257 ± 0.9722
1400
1350
1300
1250
1200

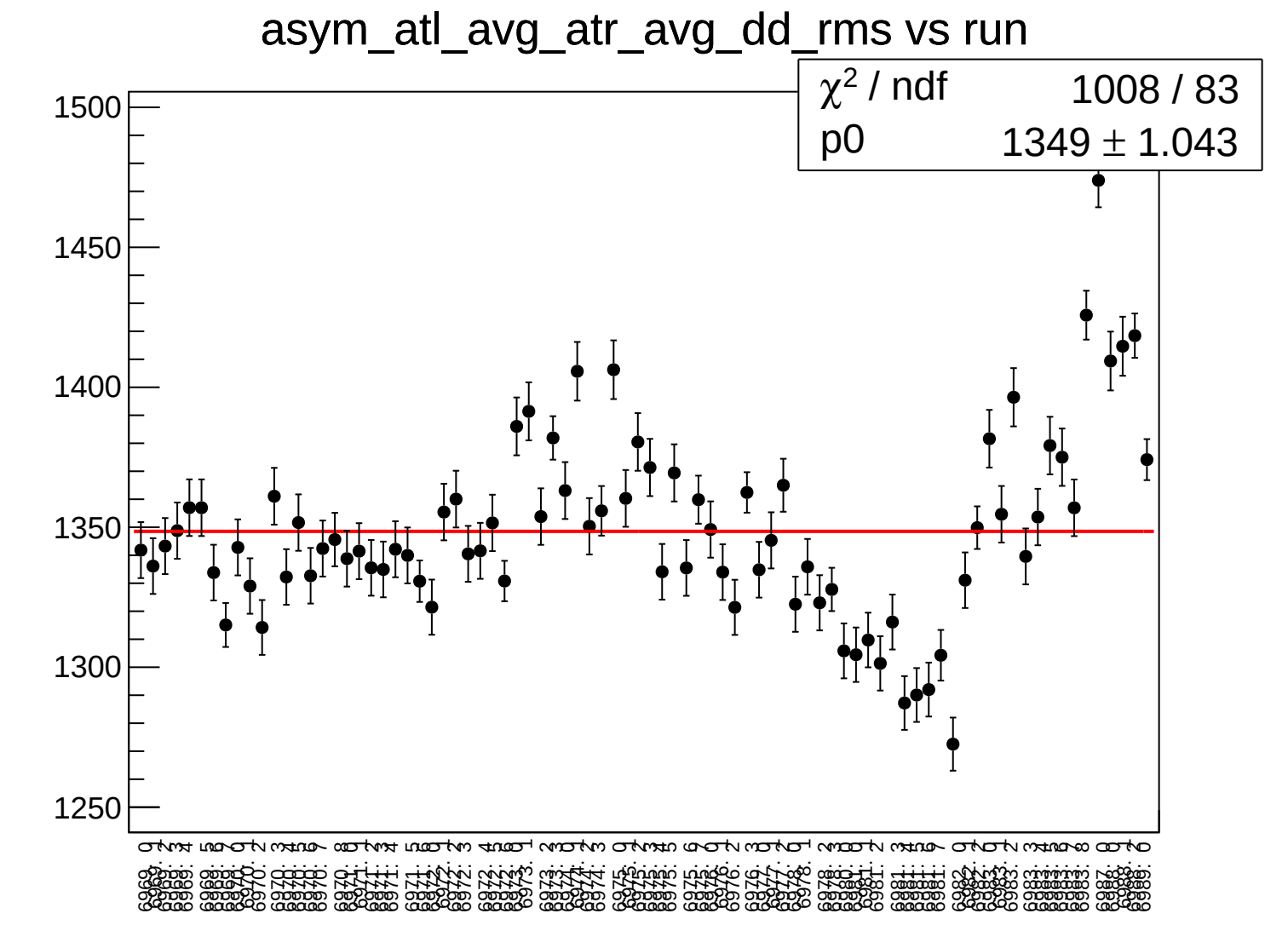

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.66 / 83
p0 −828.9 ± 562.6
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −28.21
Std Dev 0
2
1
0
−1
−2
−3

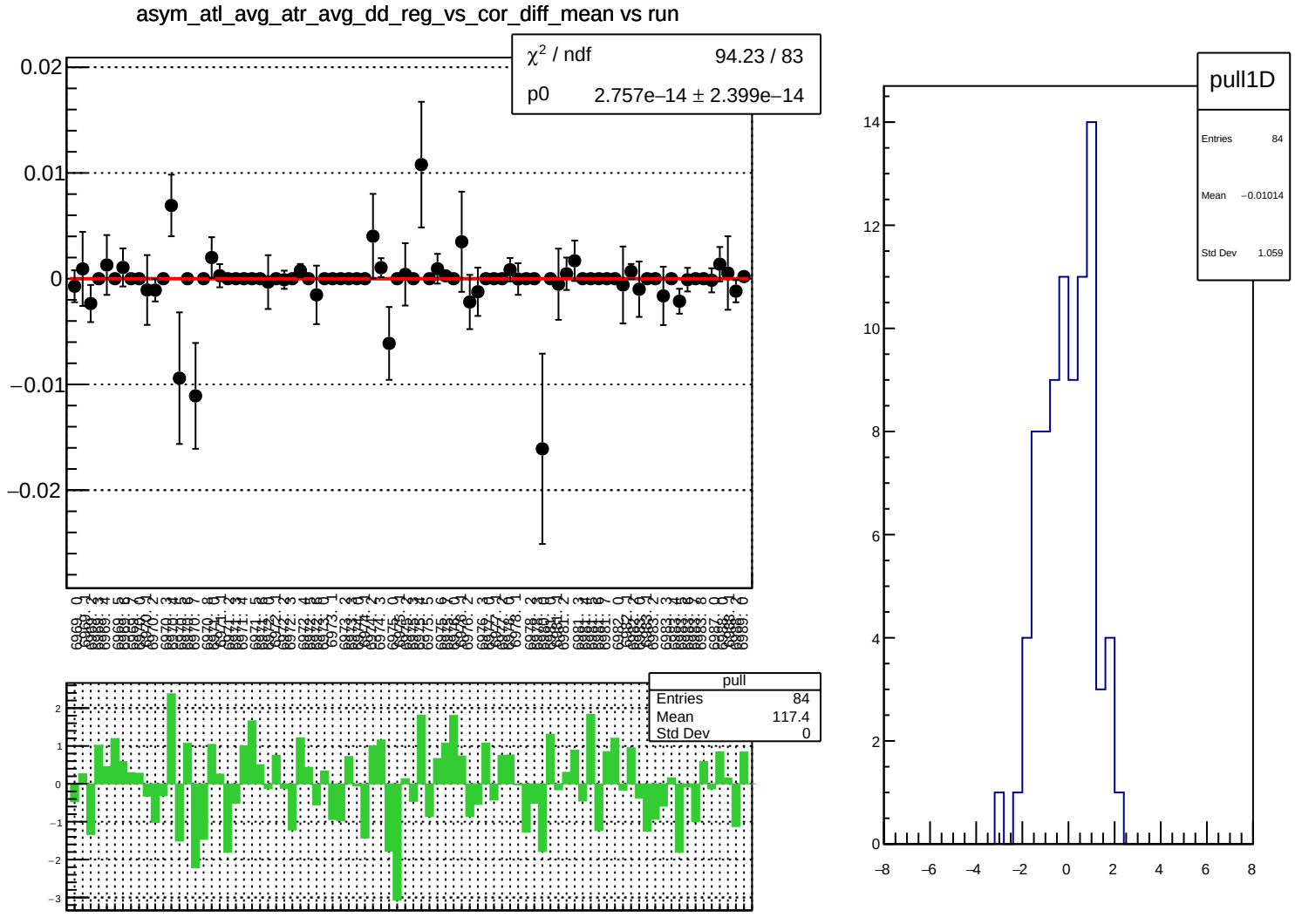

pull1D
Entries 84
Mean −0.01841
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

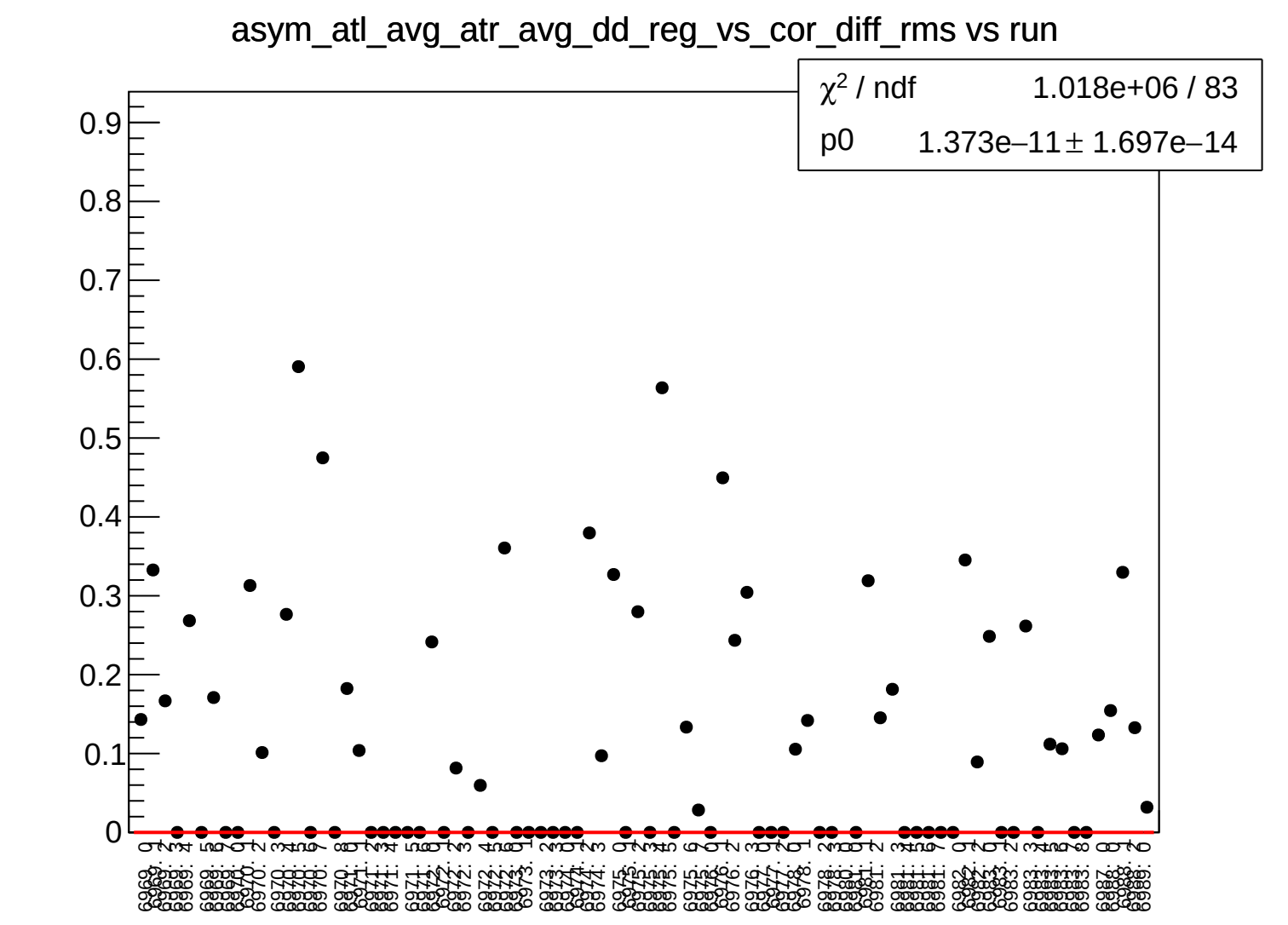

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.866e+04 / 83
p0 508.7 ± 0.3978
750
700
650
600
550
500
450
400
350

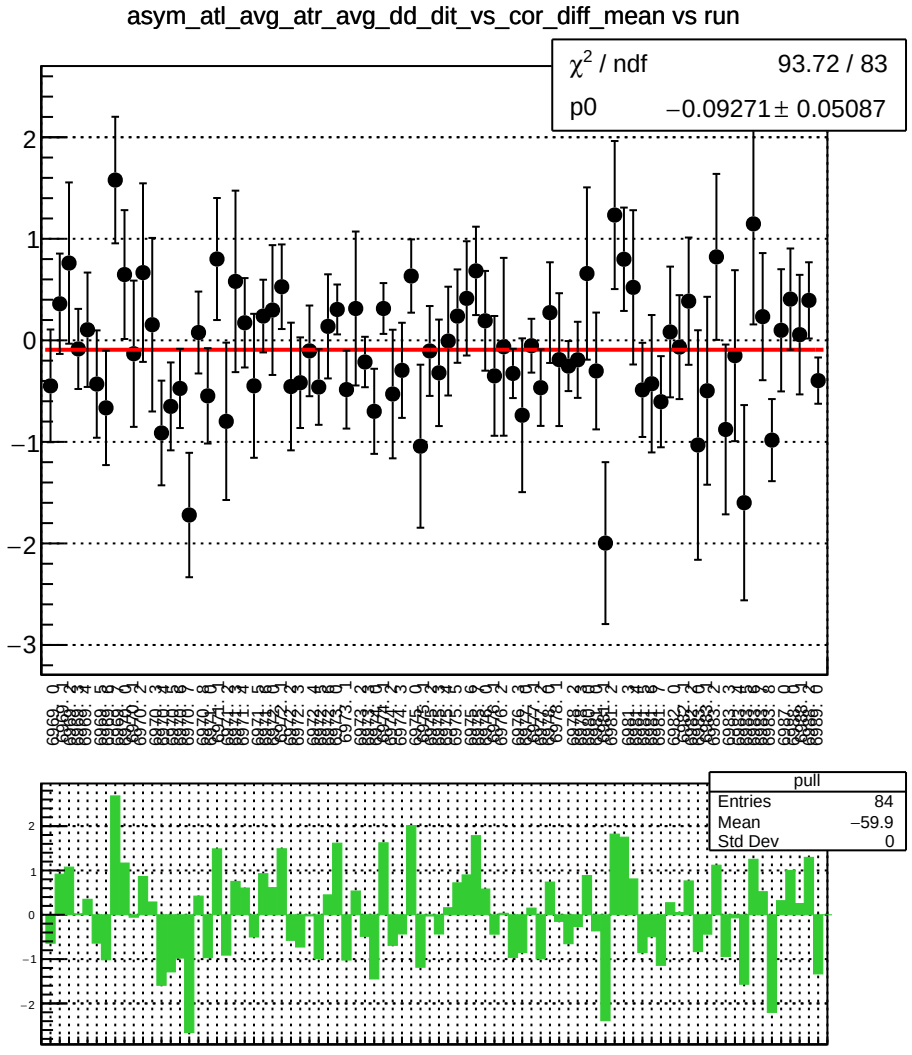

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.18 / 83
p0 −1524 ± 1475
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −291.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4

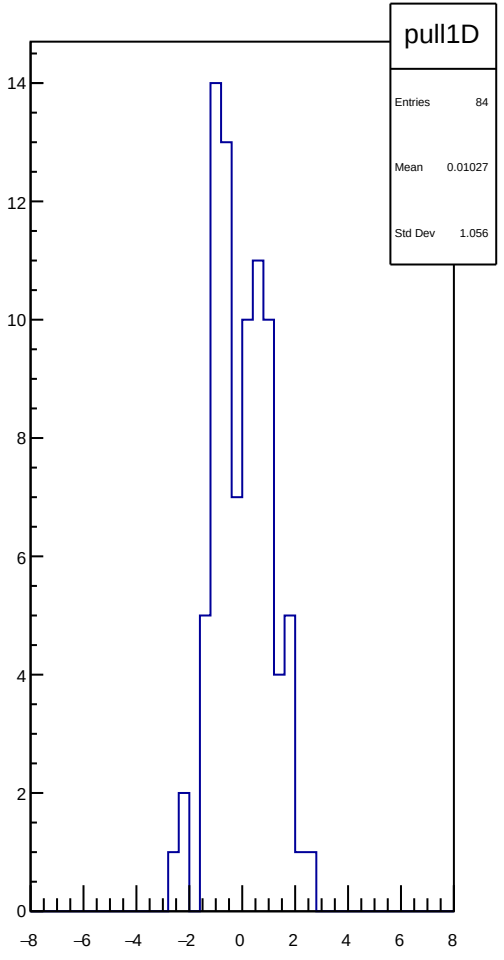

pull1D
Entries 84
Mean −0.005688
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

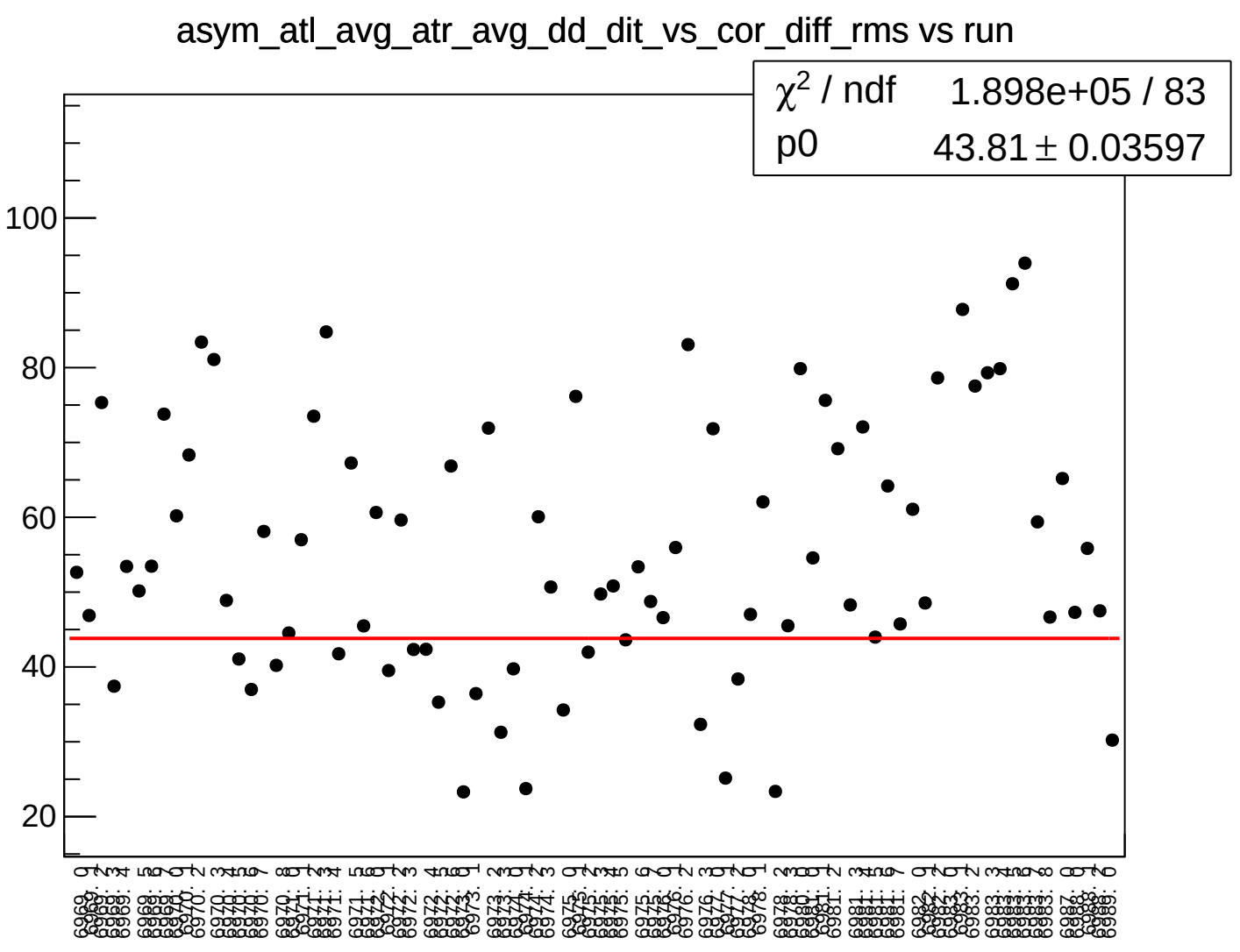

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1008 / 83
p0 1349 ± 1.043
1500
1450
1400
1350
1300
1250

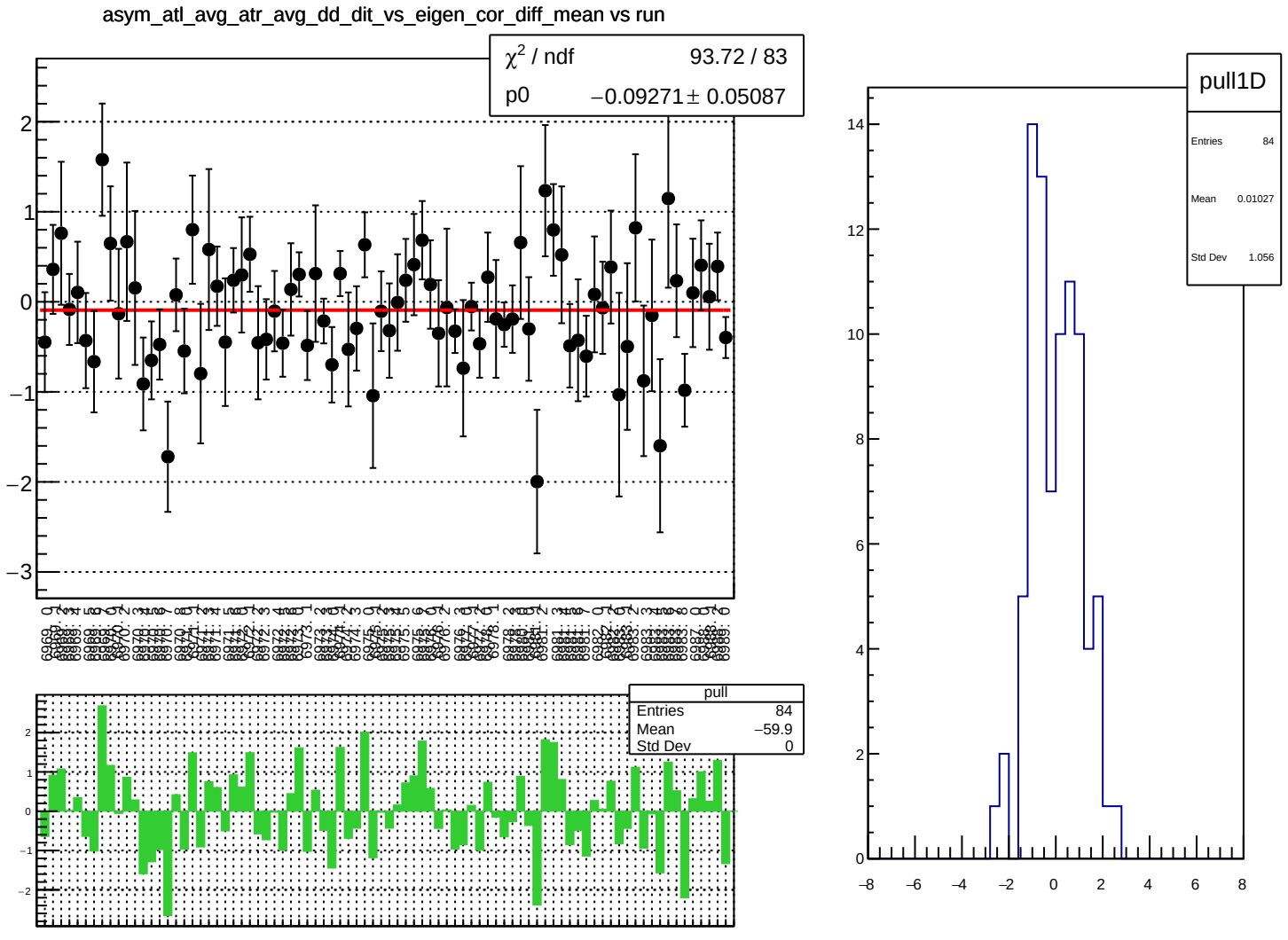

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.23 / 83
p0 2.757e−14 ± 2.399e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 117.4
Std Dev 0
pull1D
Entries 84
Mean −0.01014
Std Dev 1.059

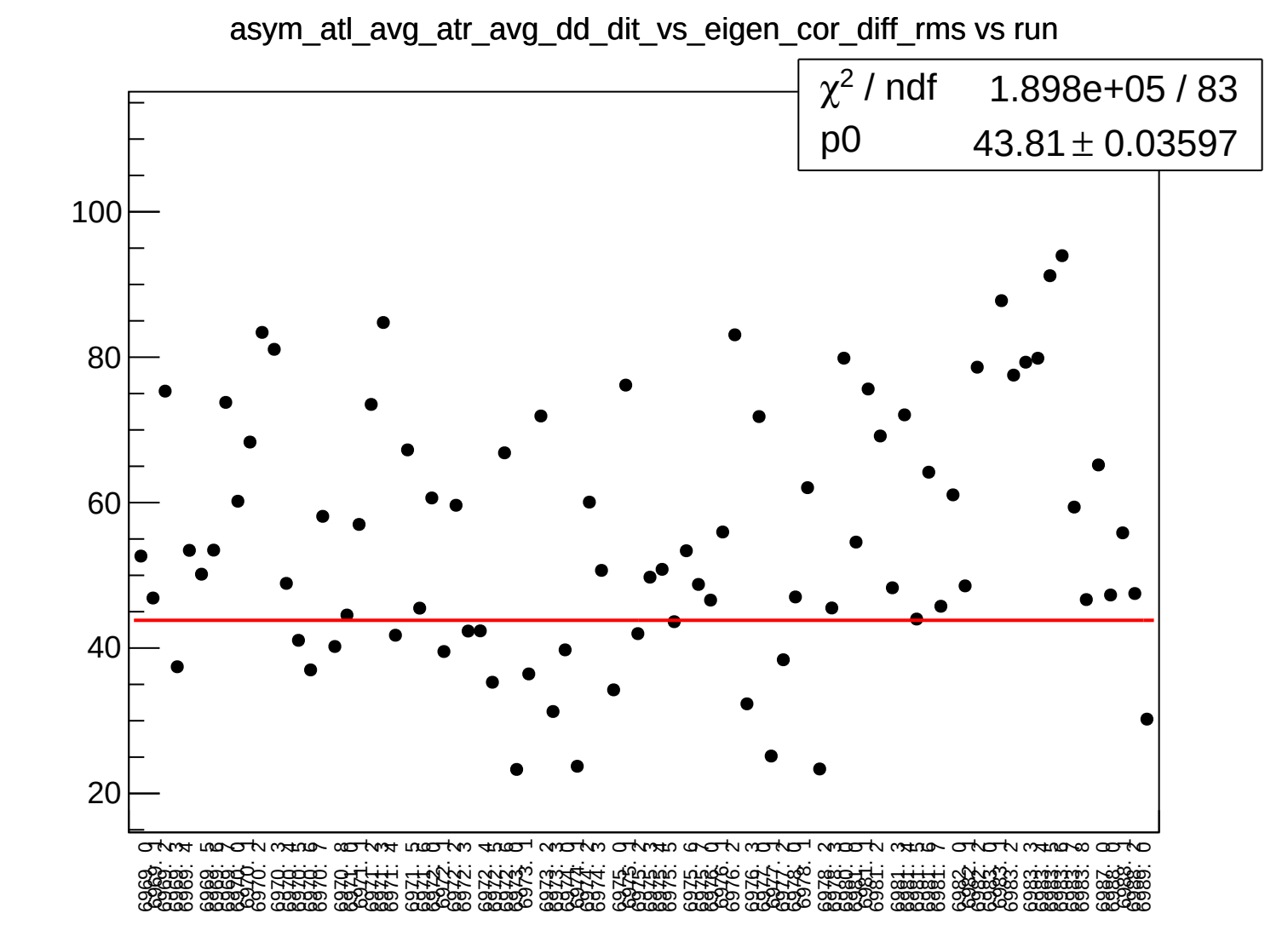

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.018e+06 / 83
p0 1.373e−11 ± 1.697e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

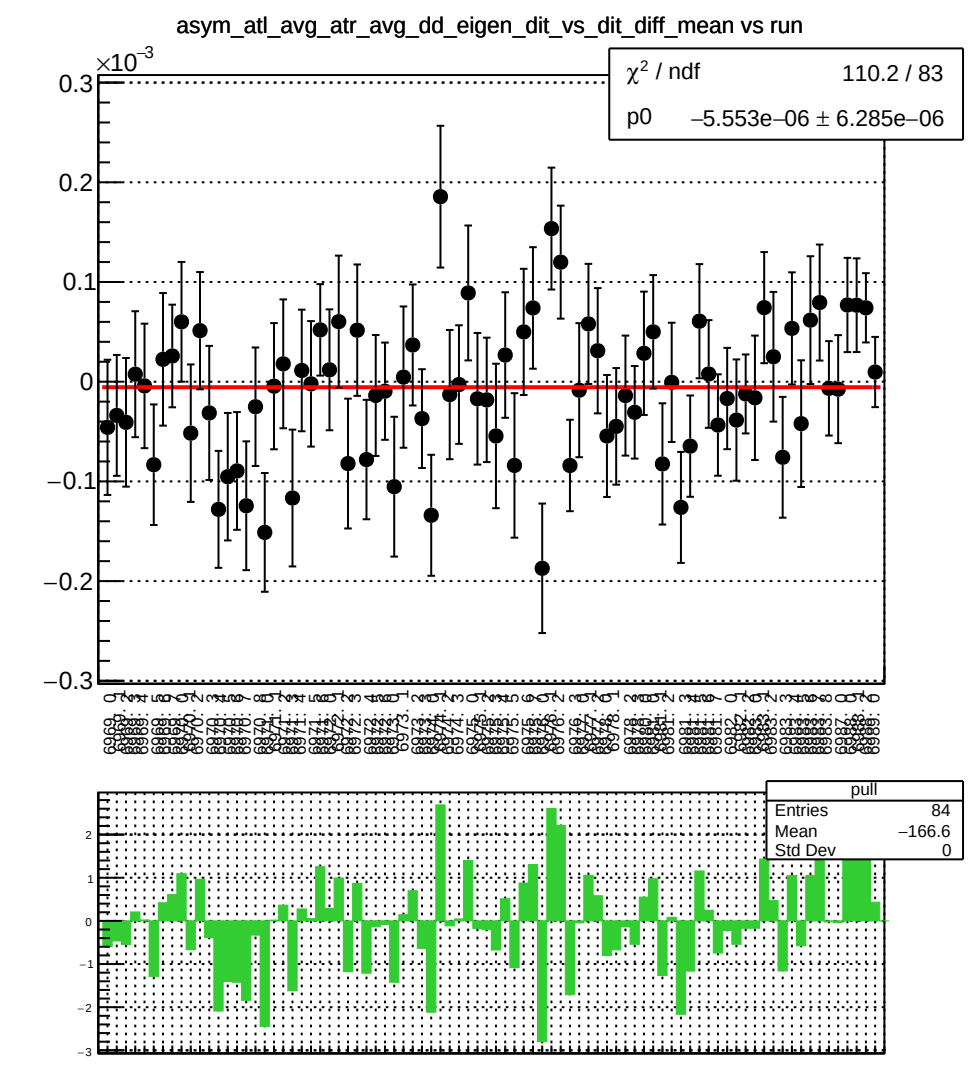

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.72 / 83
p0 −0.09271 ± 0.05087
pull
Entries 84
Mean −59.9
Std Dev 0

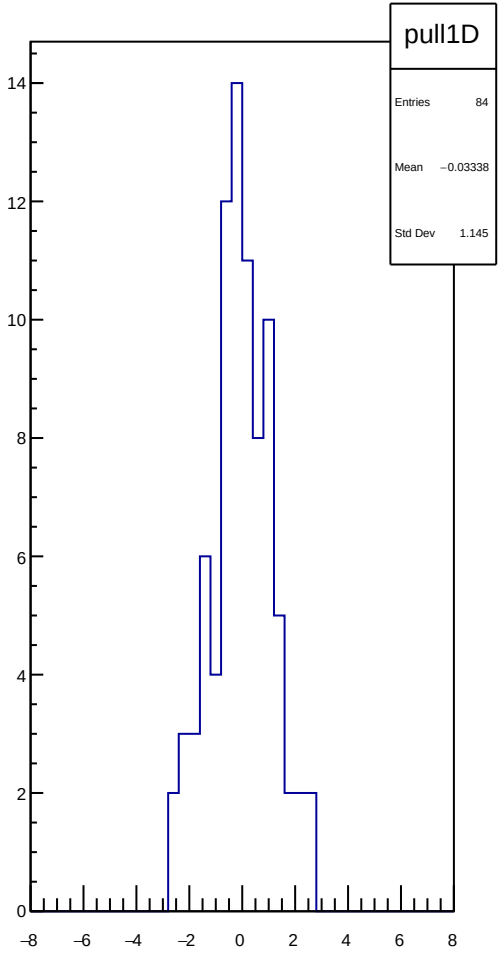

pull1D
Entries 84
Mean 0.01027
Std Dev 1.056

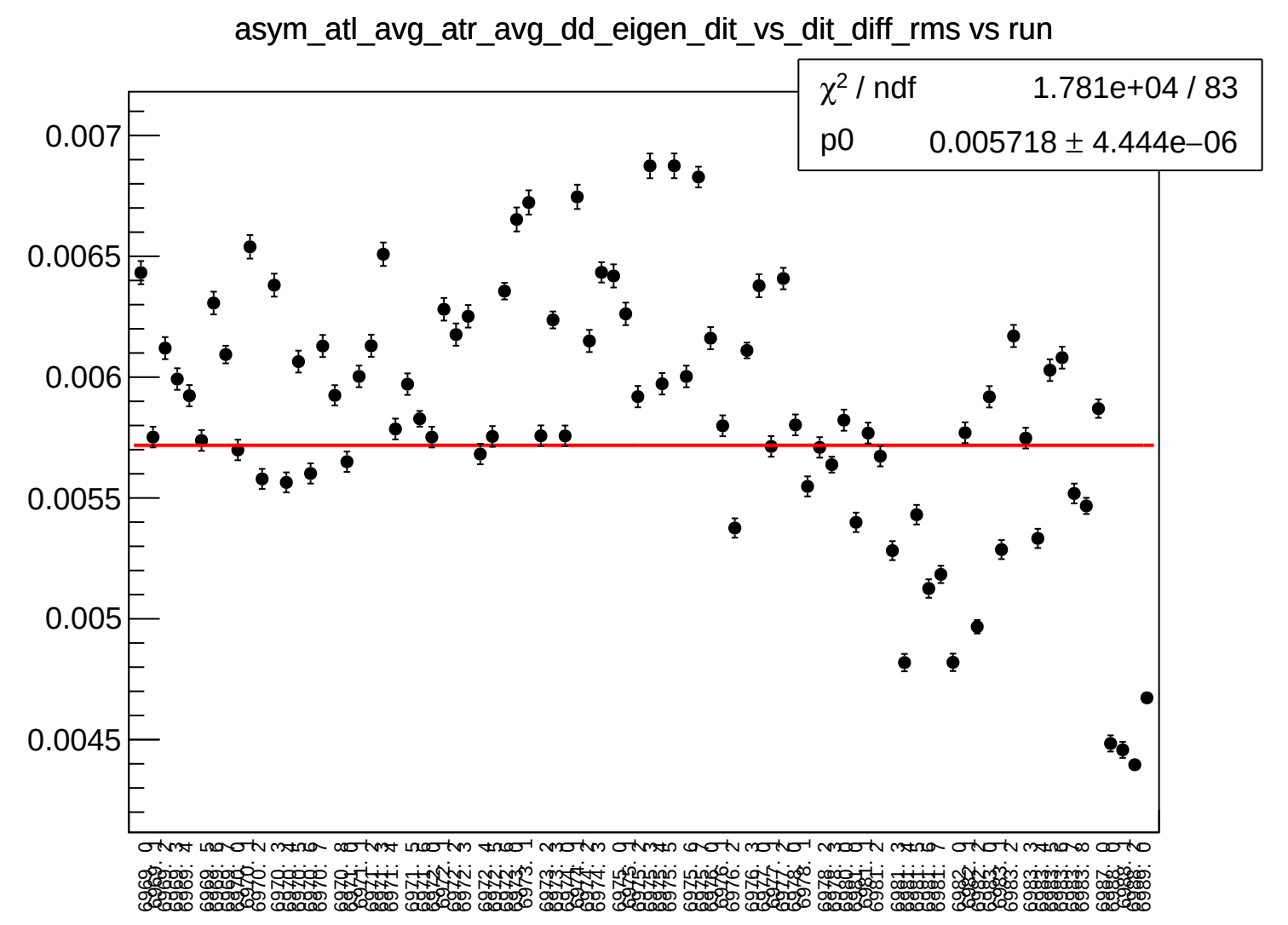

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.898e+05 / 83
p0 43.81 ± 0.03597
100
80
60
40
20

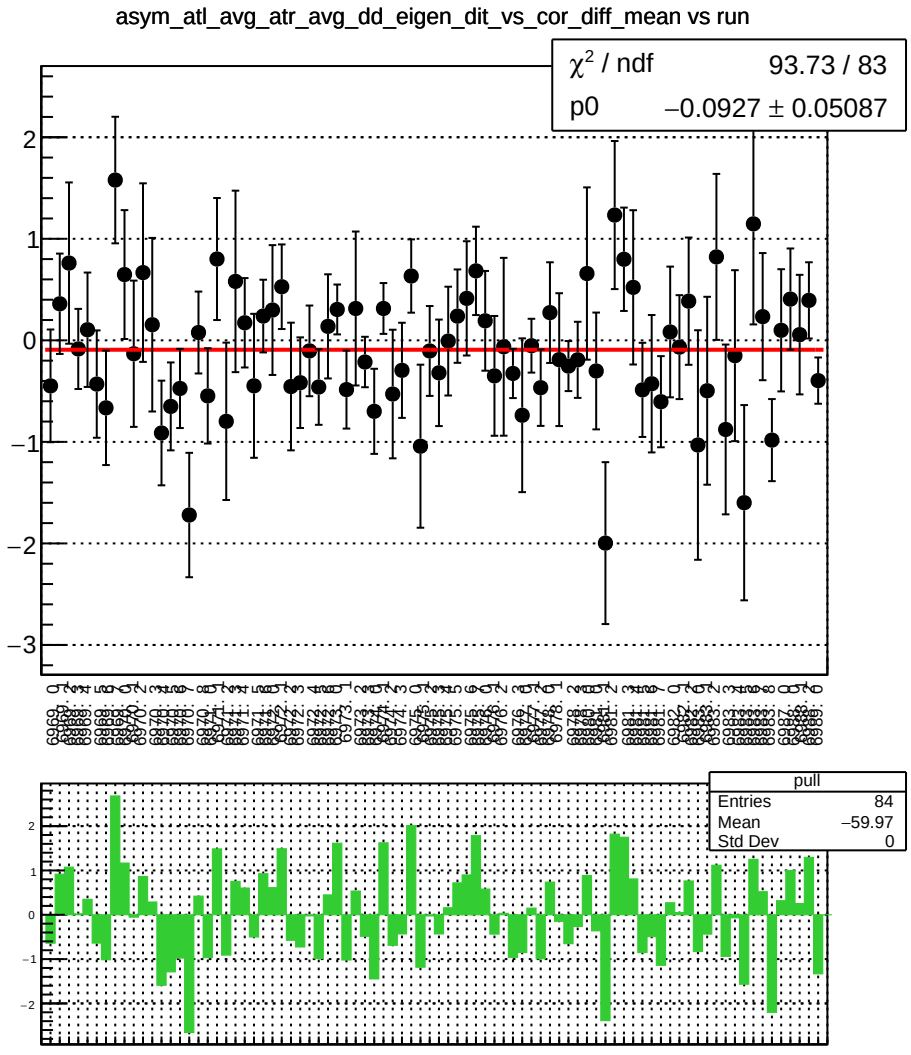

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.72 / 83
p0 −0.09271 ± 0.05087
pull
Entries 84
Mean −59.9
Std Dev 0
pull1D
Entries 84
Mean 0.01027
Std Dev 1.056

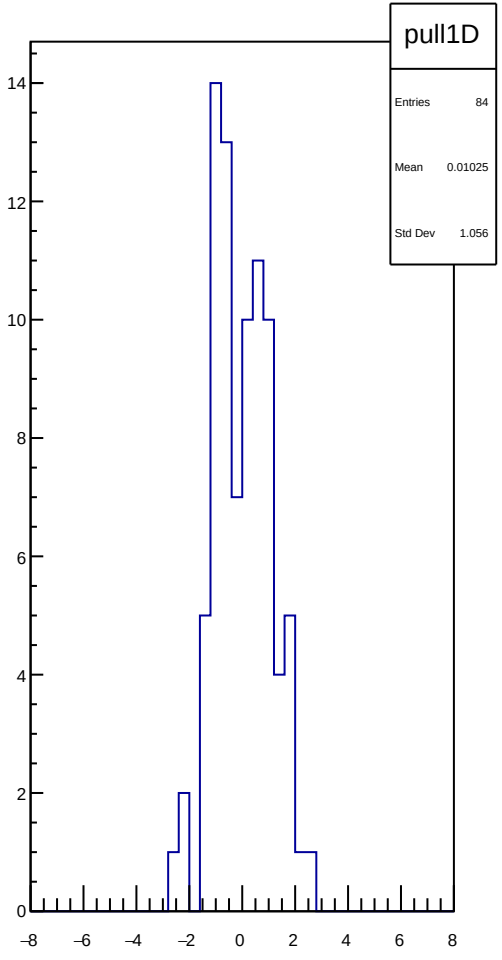

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.898e+05 / 83
p0 43.81 ± 0.03597
100
80
60
40
20

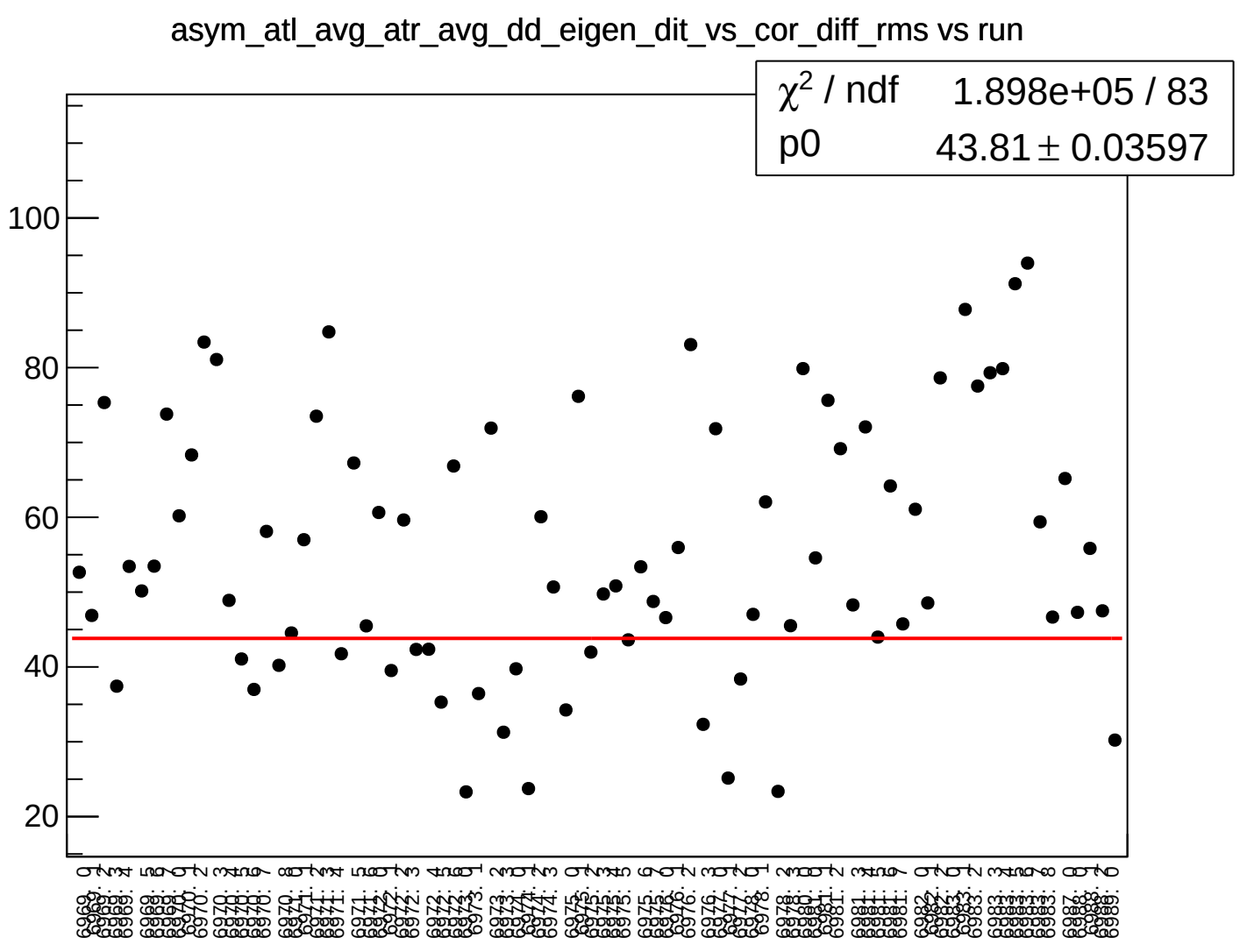

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.2 / 83
p0 −5.553e−06 ± 6.285e−06
pull
Entries 84
Mean −166.6
Std Dev 0

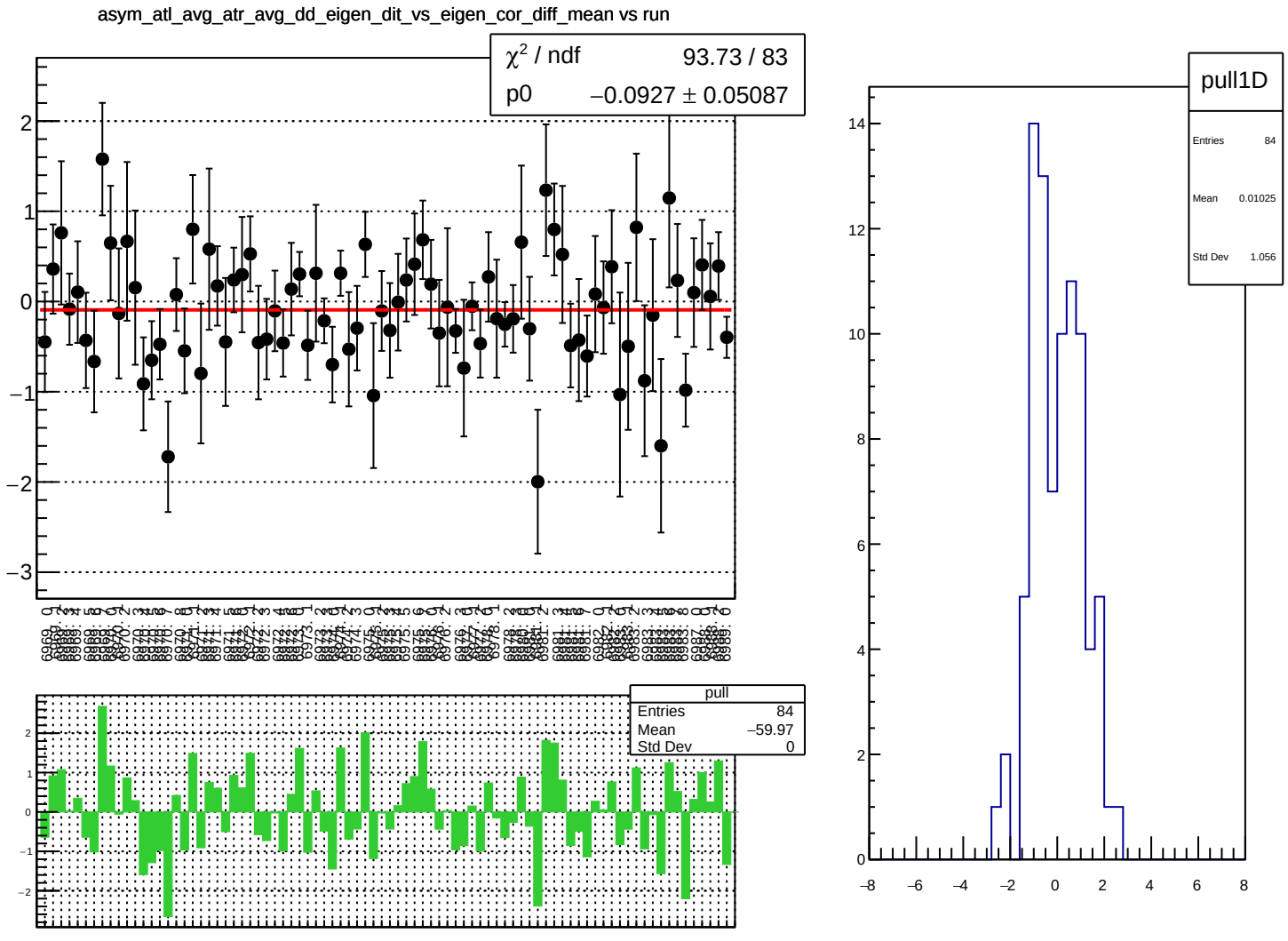

pull1D
Entries 84
Mean −0.03338
Std Dev 1.145

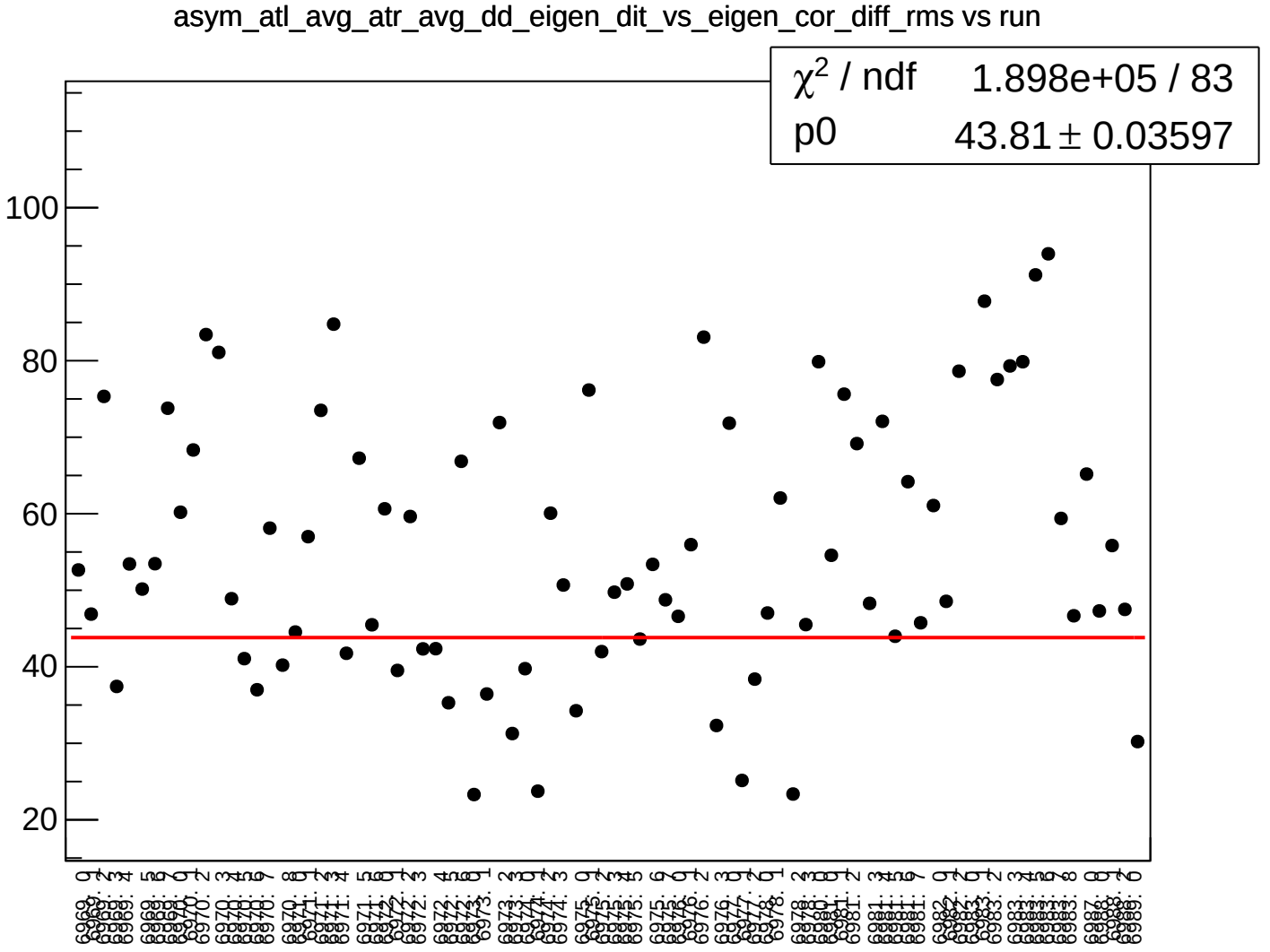

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.781e+04 / 83
p0 0.005718 ± 4.444e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045

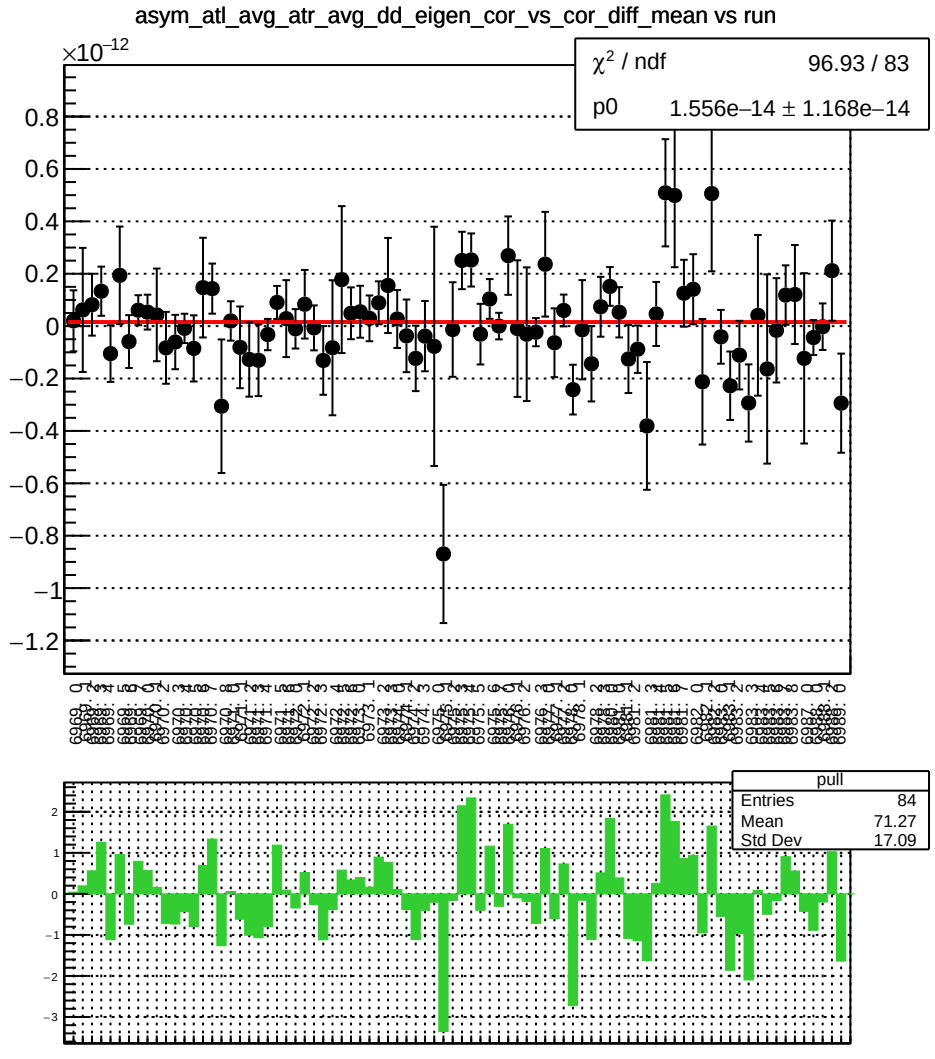

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.73 / 83
p0 −0.0927 ± 0.05087
pull
Entries 84
Mean −59.97
Std Dev 0

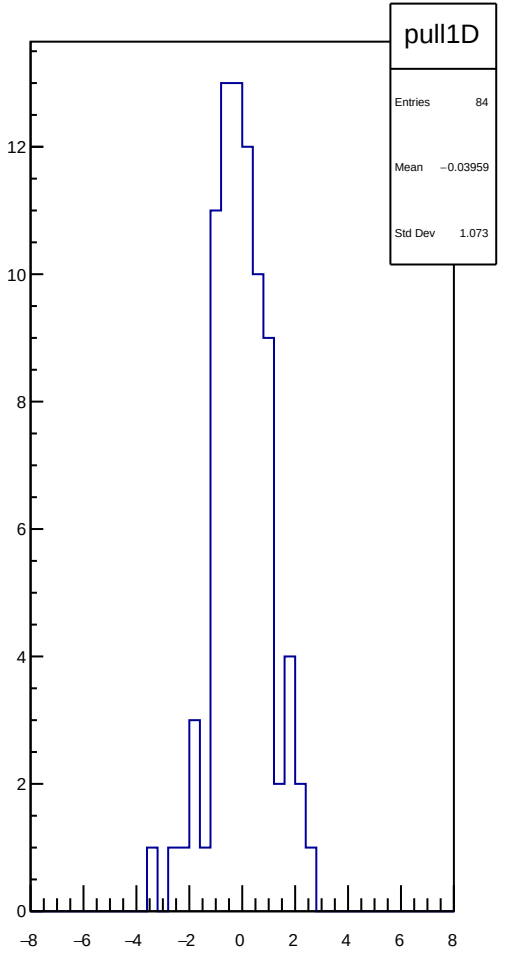

pull1D
Entries 84
Mean 0.01025
Std Dev 1.056

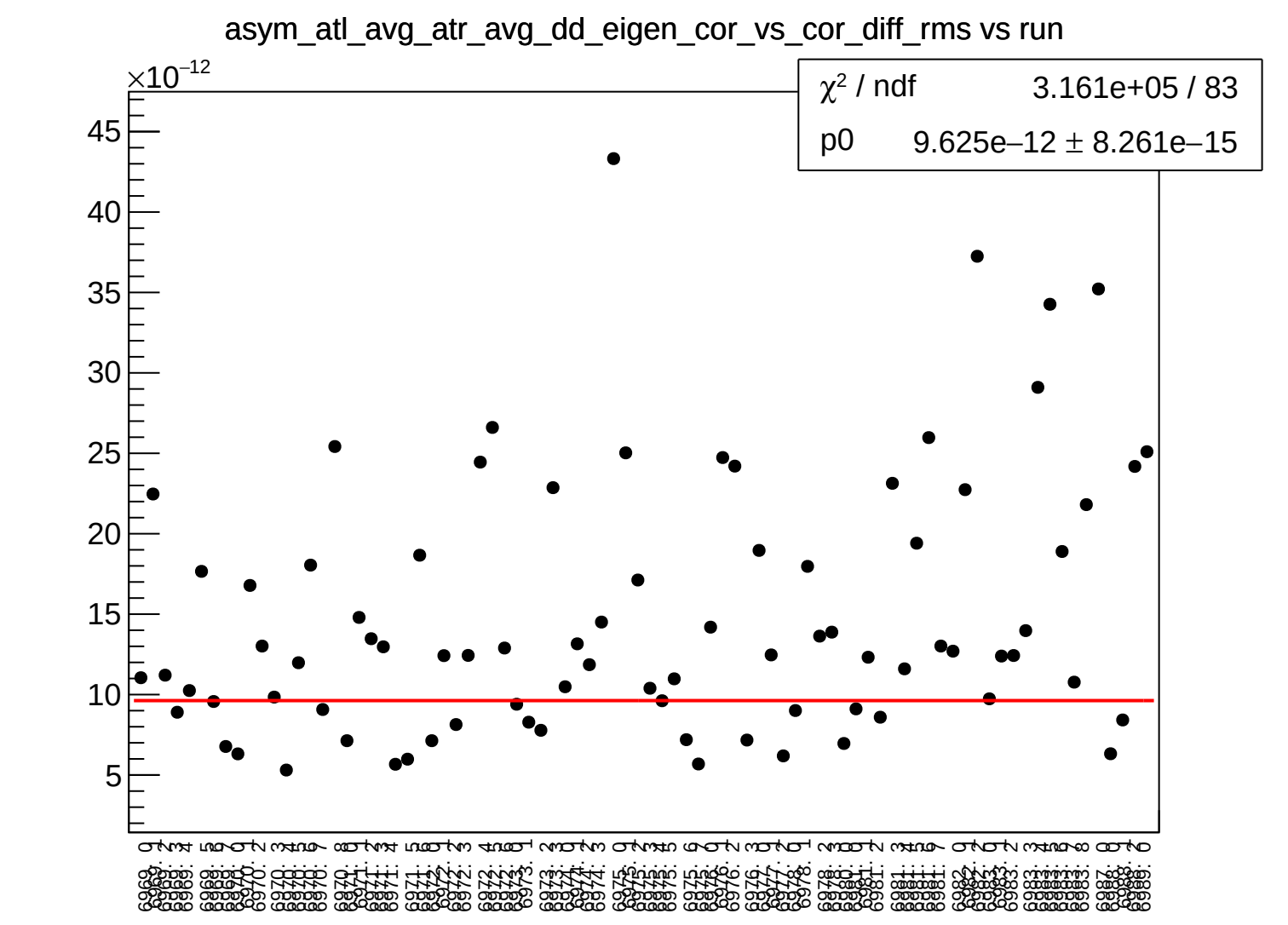

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.898e+05 / 83
p0 43.81 ± 0.03597
100
80
60
40
20

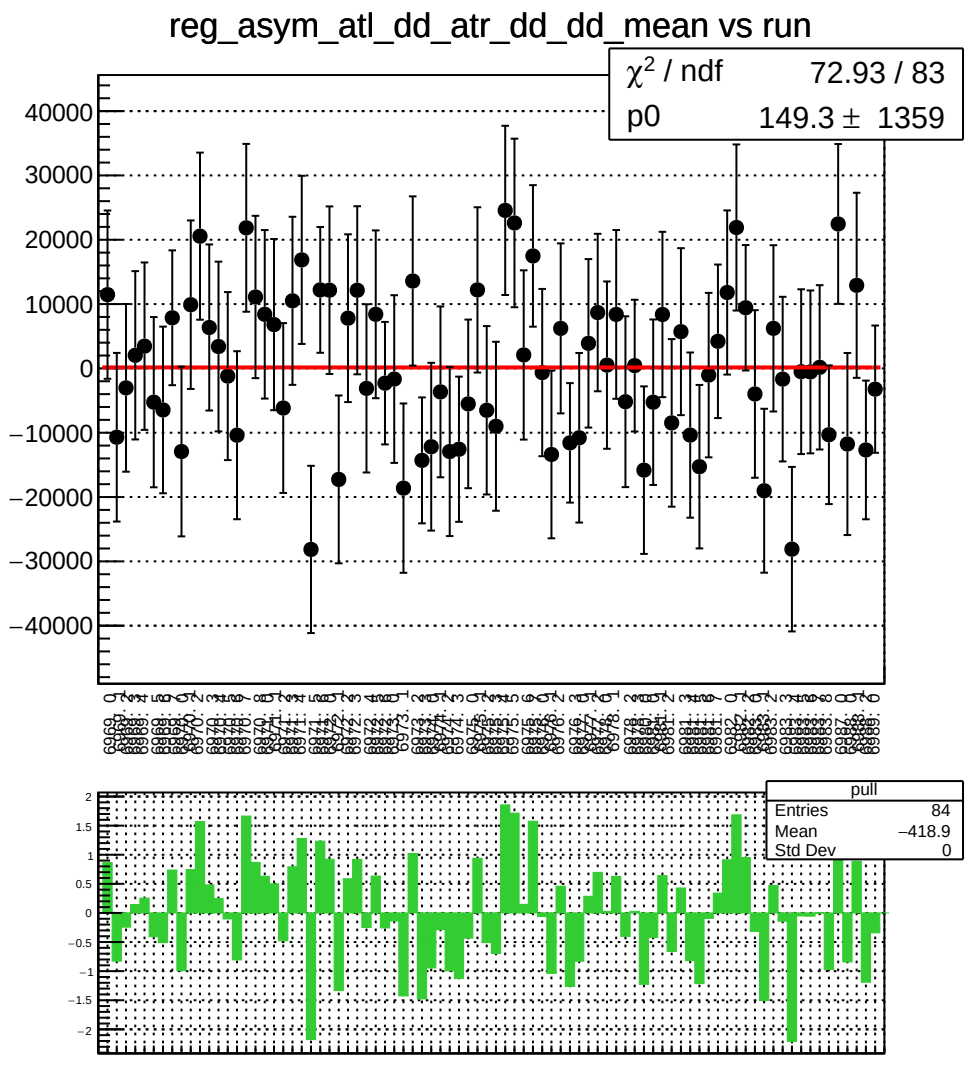

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.73 / 83
p0 −0.0927 ± 0.05087
pull
Entries 84
Mean −59.97
Std Dev 0
pull1D
Entries 84
Mean 0.01025
Std Dev 1.056

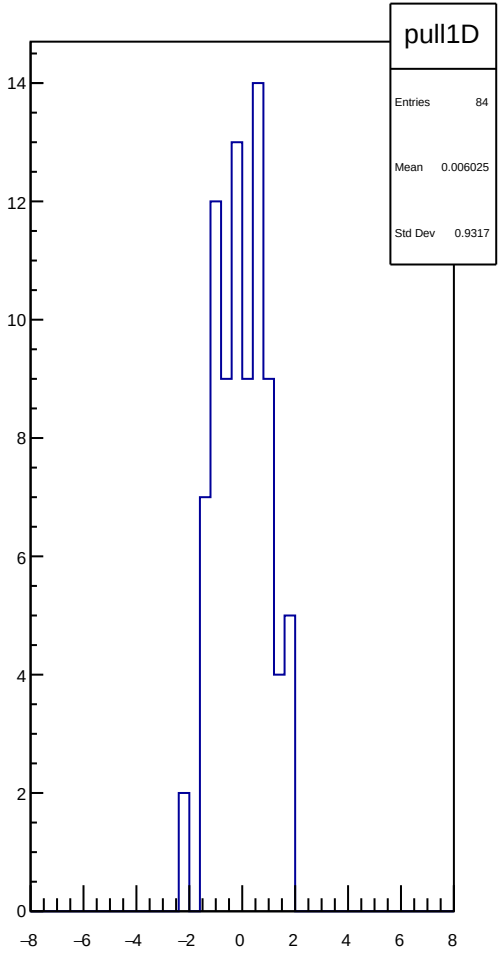

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.898e+05 / 83
p0 43.81 ± 0.03597
100
80
60
40
20

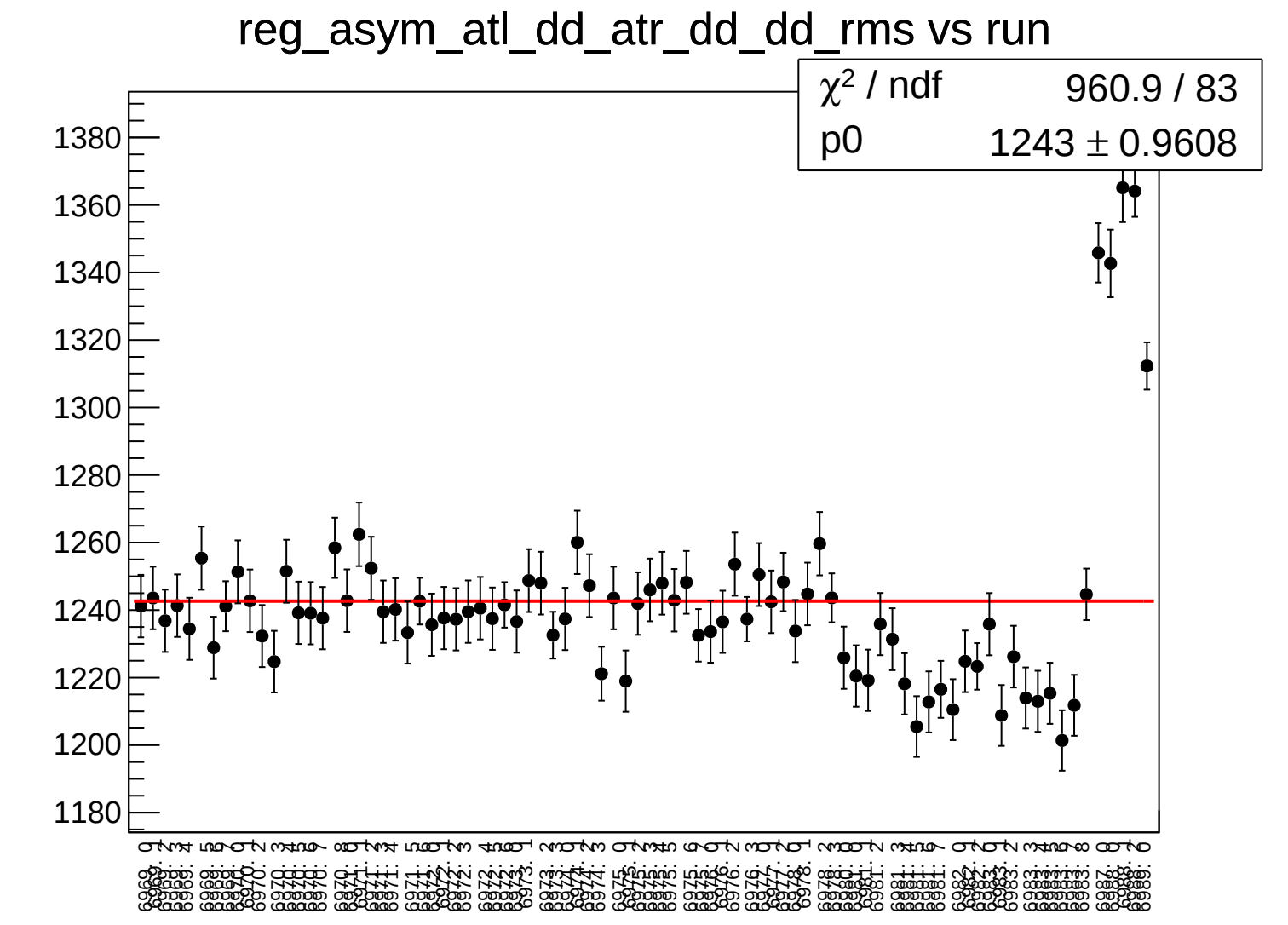

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.93 / 83
p0 1.556e−14 ± 1.168e−14
pull
Entries 84
Mean 71.27
Std Dev 17.09

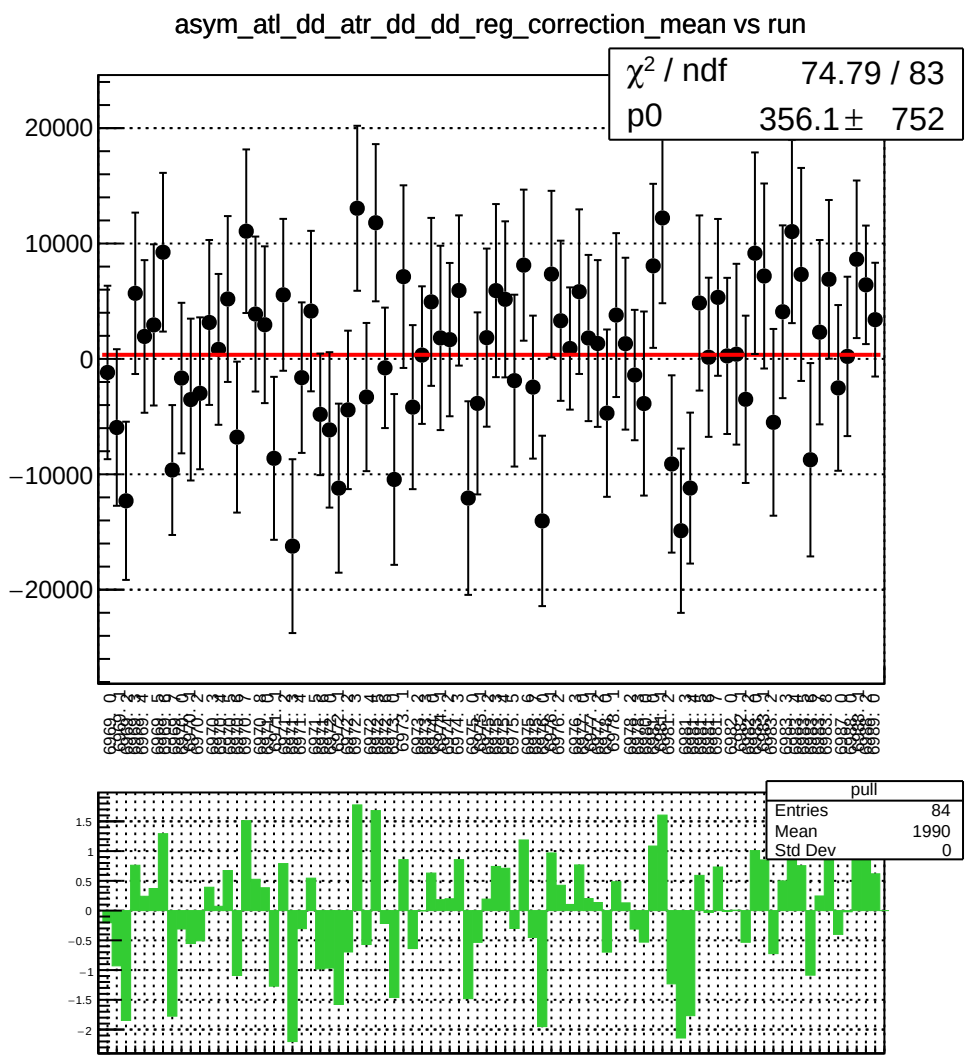

pull1D
Entries 84
Mean −0.03959
Std Dev 1.073

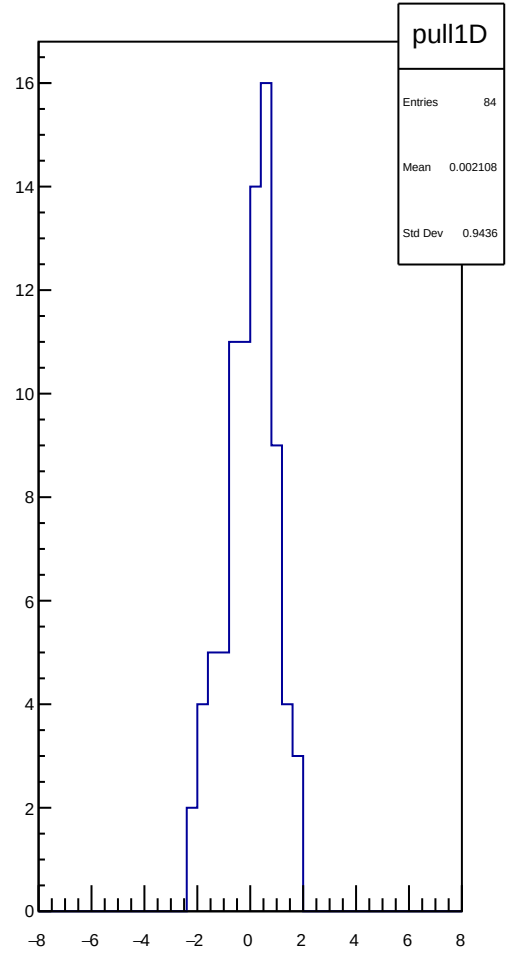

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.161e+05 / 83
p0 9.625e−12 ± 8.261e−15
45
40
35
30
25
20
15
10
5

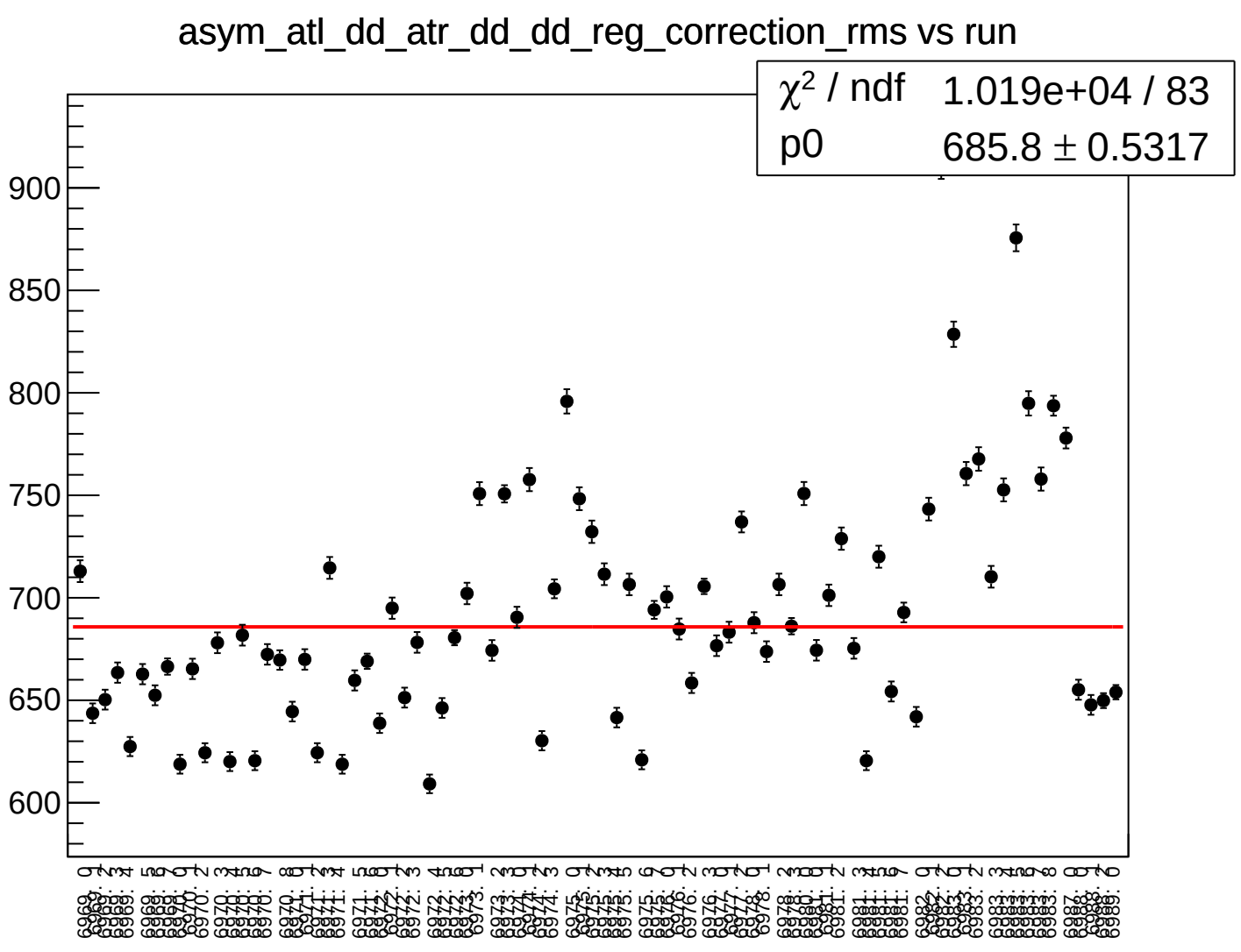

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 72.93 / 83
p0 149.3 ± 1359
pull
Entries 84
Mean −418.9
Std Dev 0

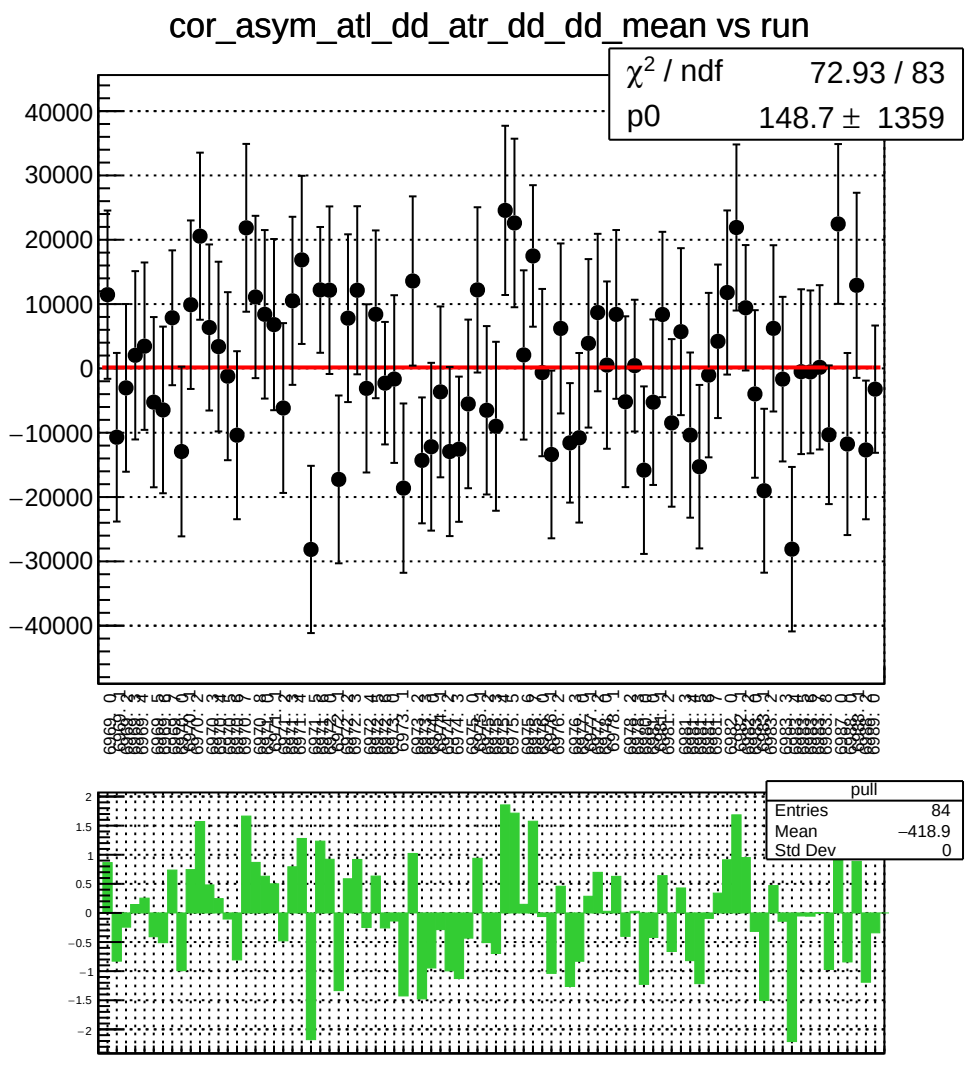

pull1D
Entries 84
Mean 0.006025
Std Dev 0.9317

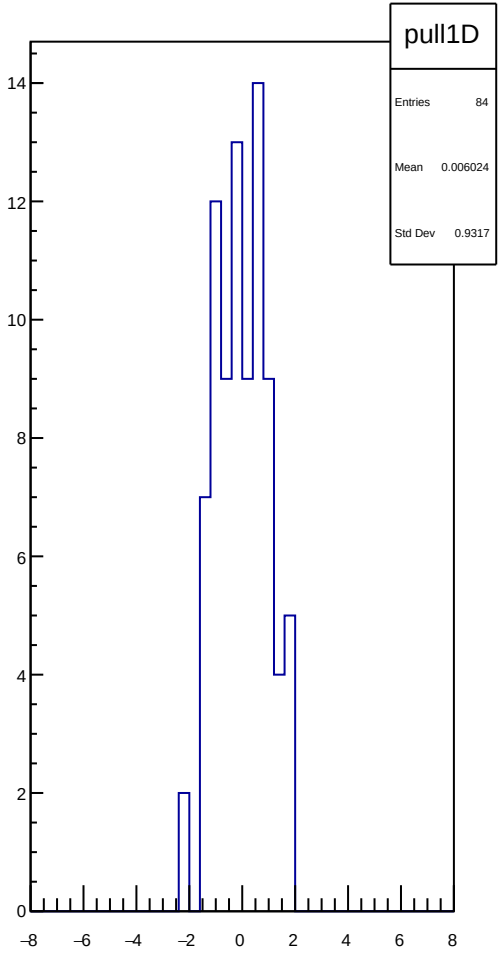

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 960.9 / 83
p0 1243 ± 0.9608
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

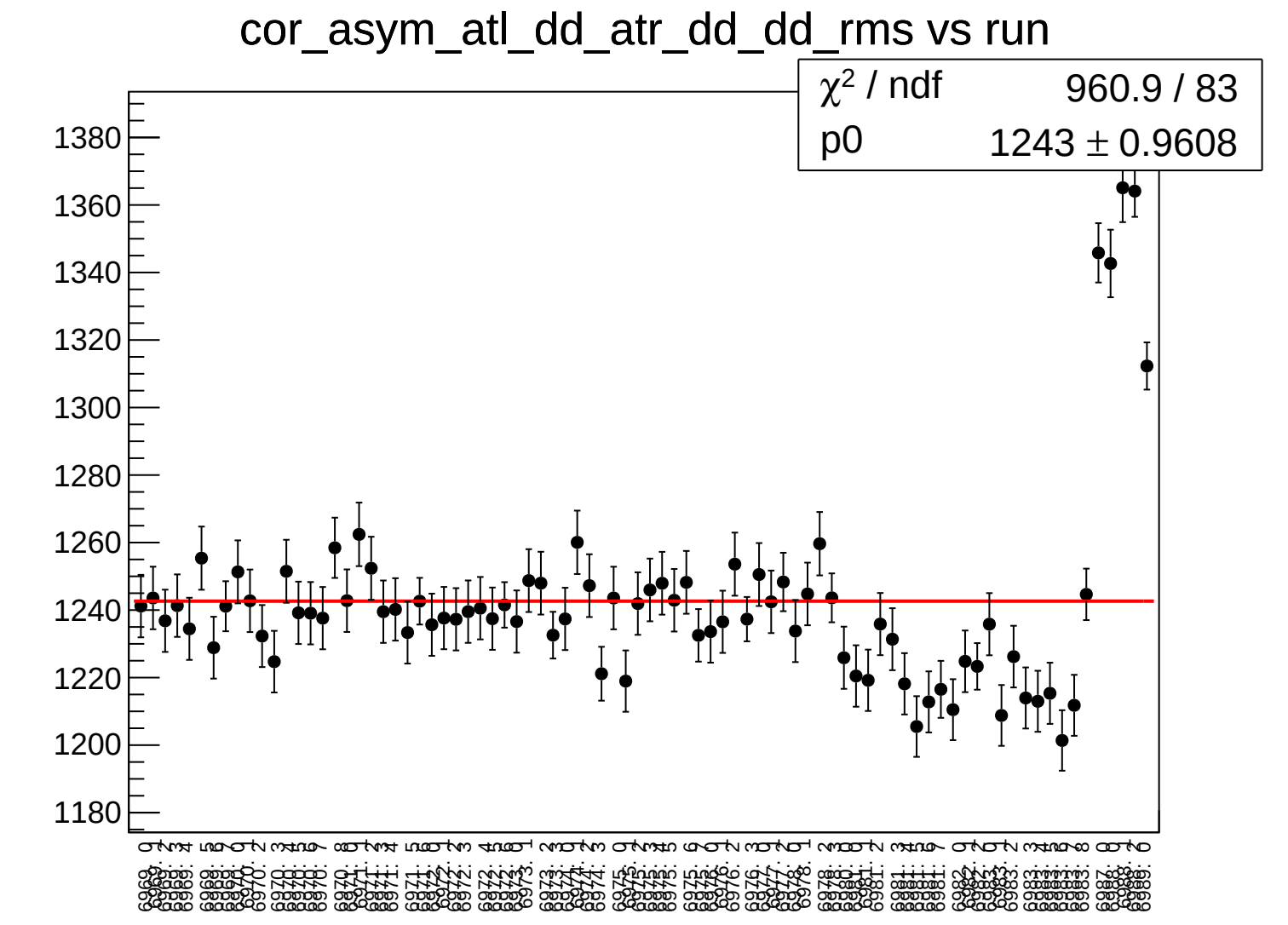

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 74.79 / 83
p0 356.1 ± 752
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1990
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

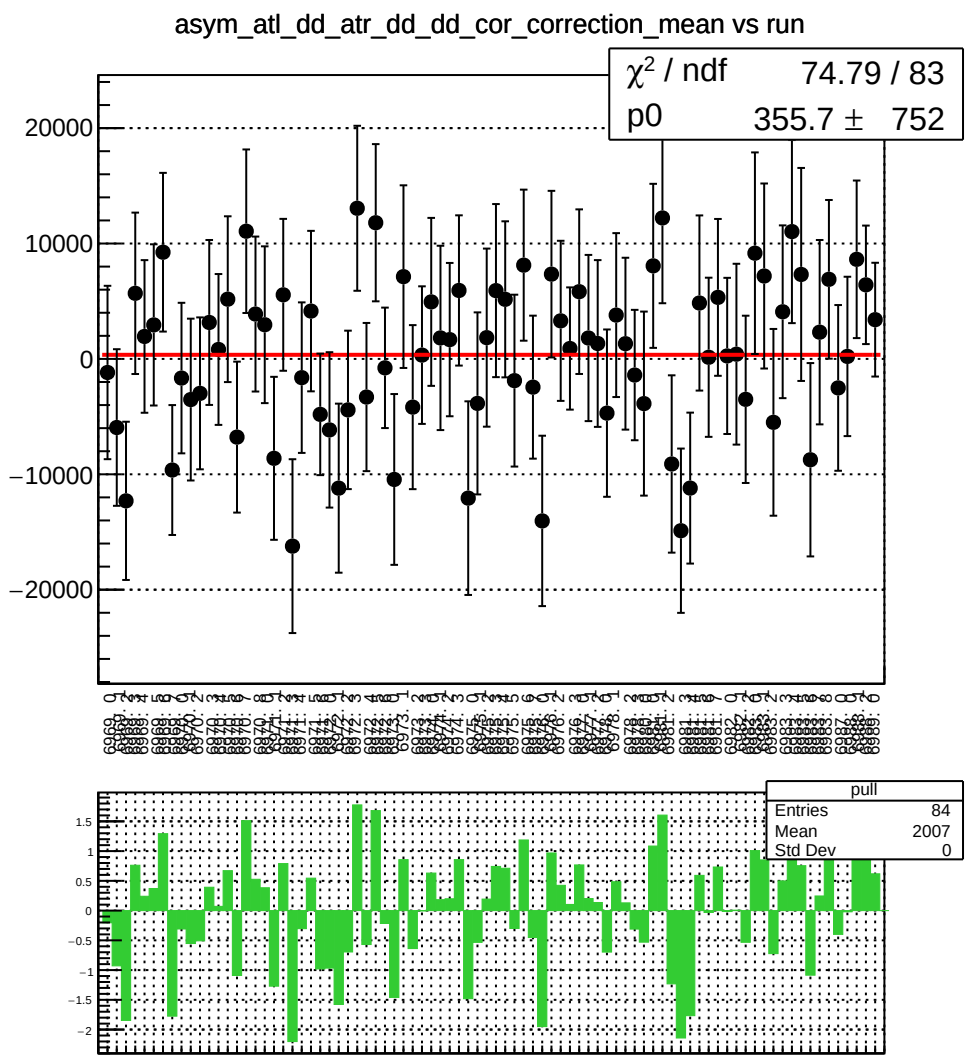

pull1D
Entries 84
Mean 0.002108
Std Dev 0.9436
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

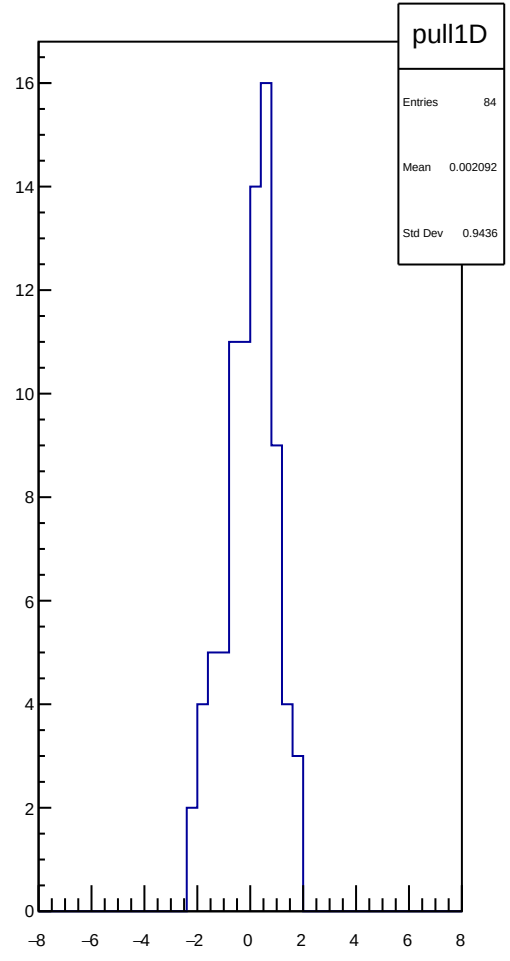

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.019e+04 / 83
p0 685.8 ± 0.5317
900
850
800
750
700
650
600

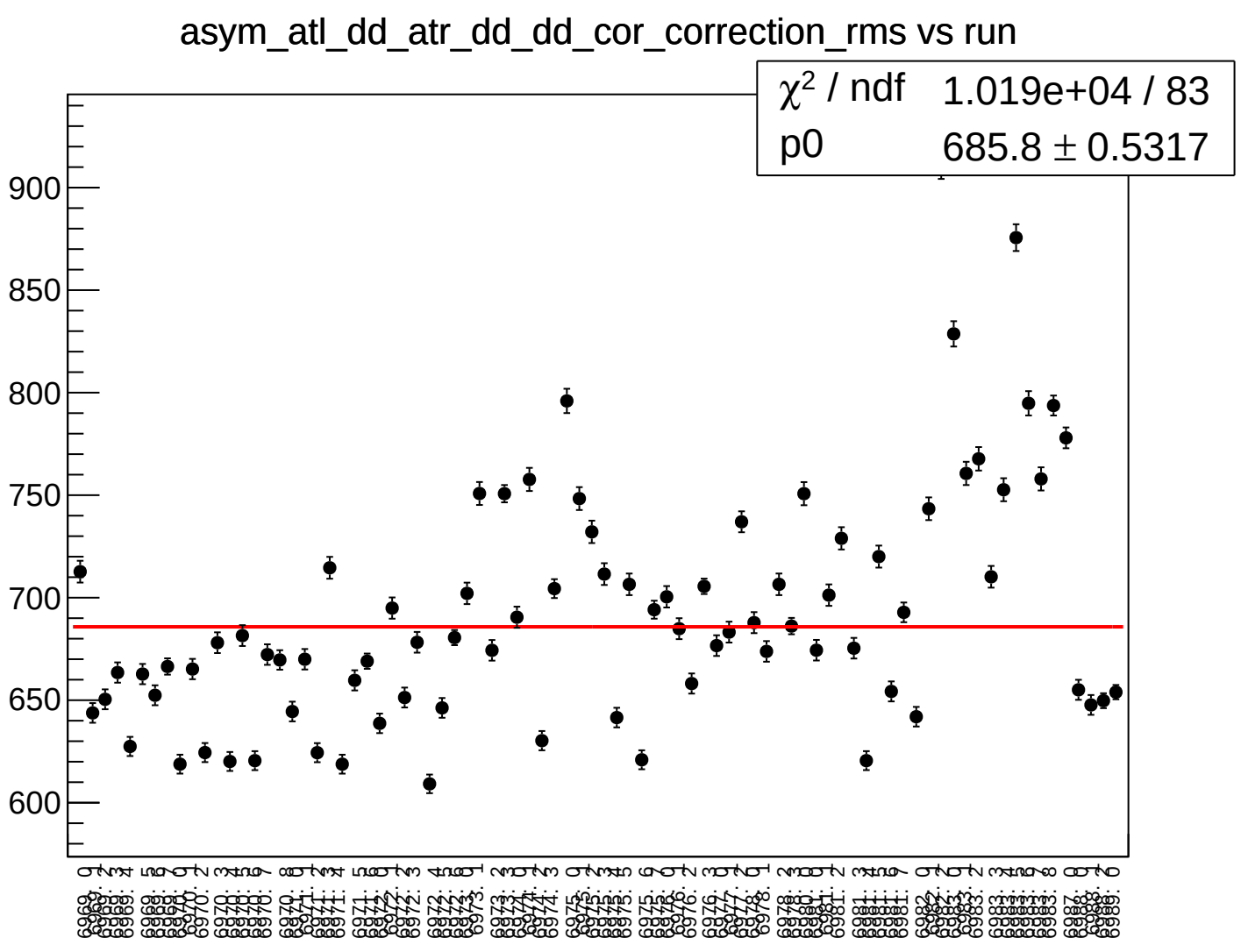

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 72.93 / 83
p0 148.7 ± 1359
pull
Entries 84
Mean −418.9
Std Dev 0

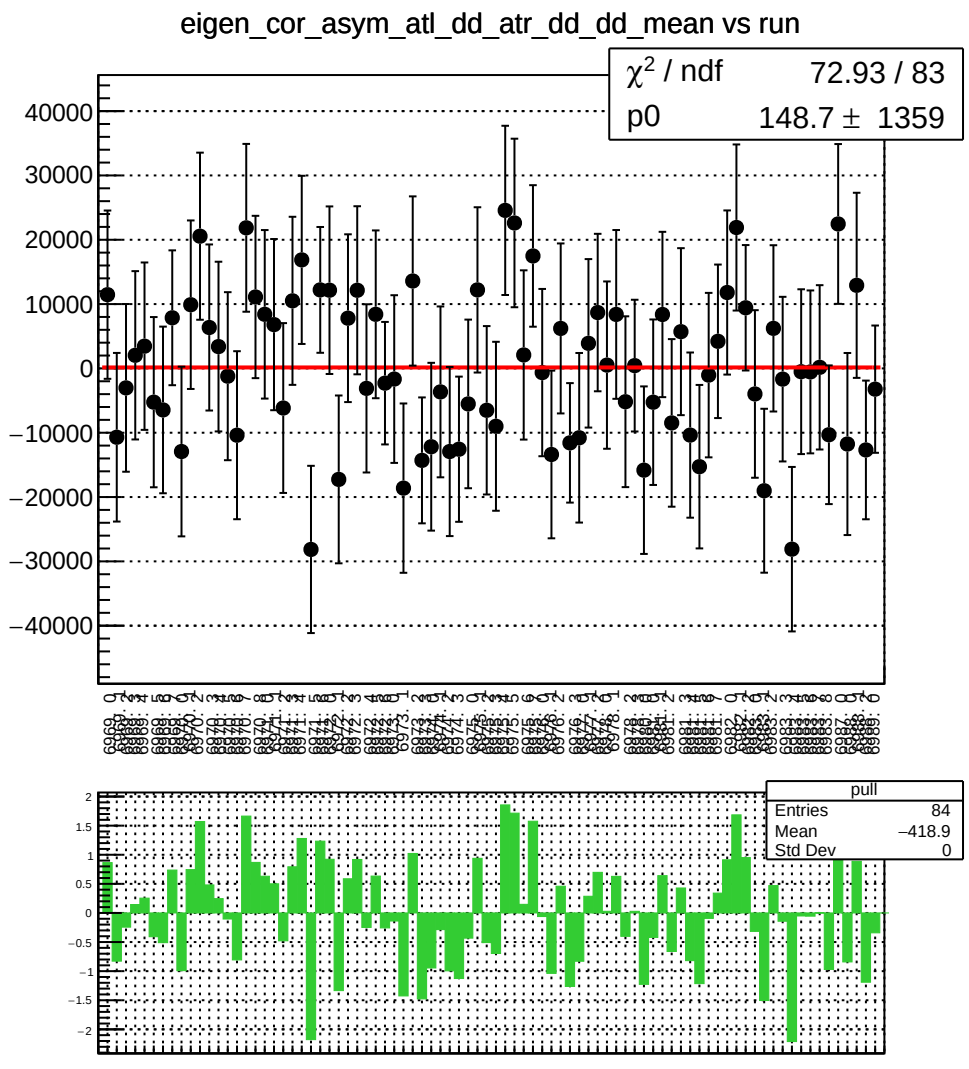

pull1D
Entries 84
Mean 0.006024
Std Dev 0.9317

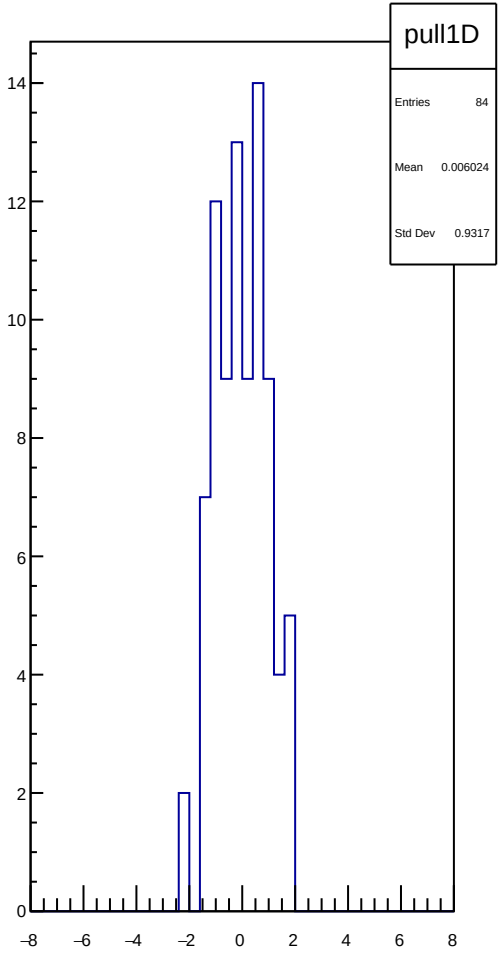

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 960.9 / 83
p0 1243 ± 0.9608
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

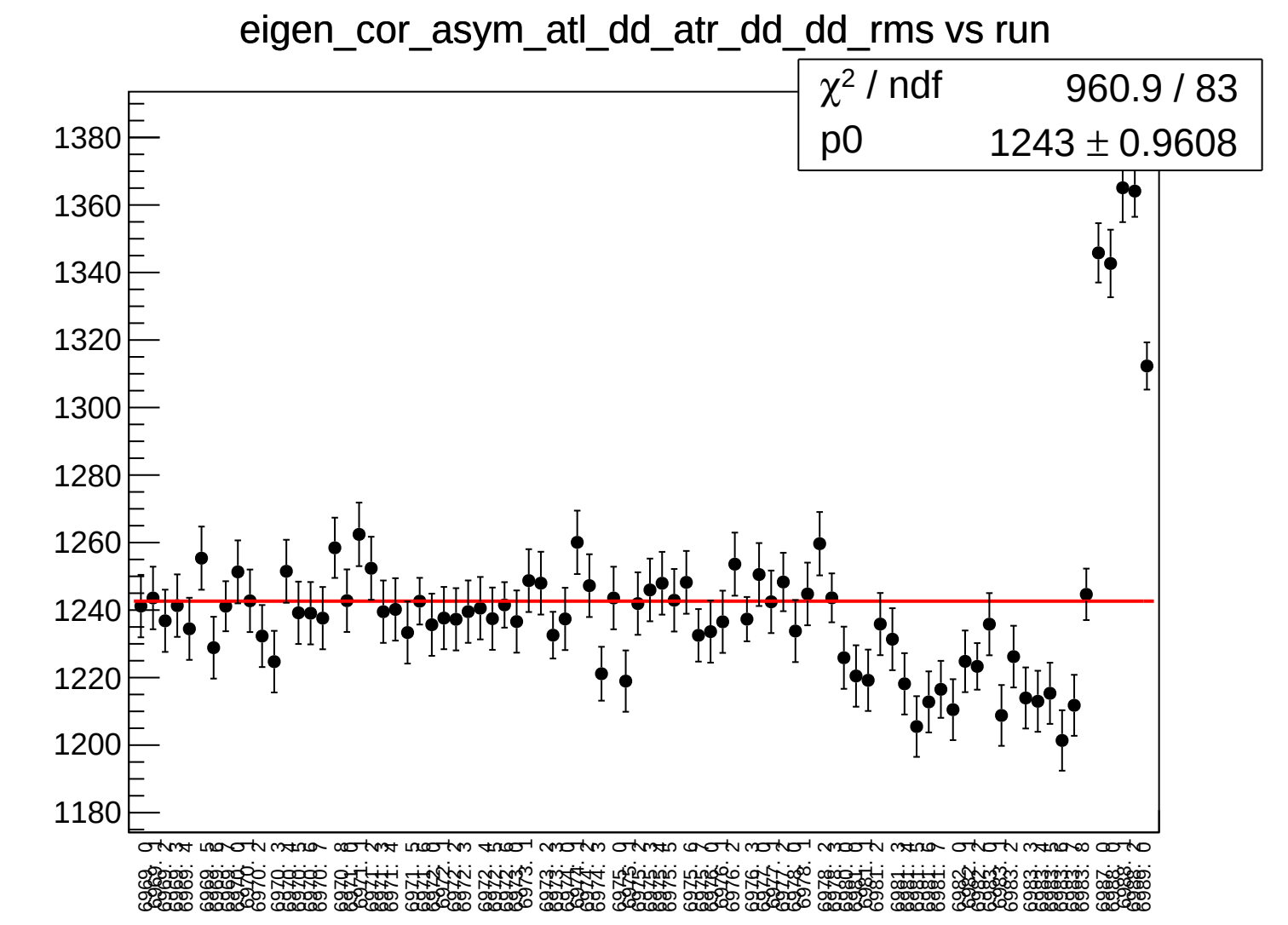

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 74.79 / 83
p0 355.7 ± 752
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 2007
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

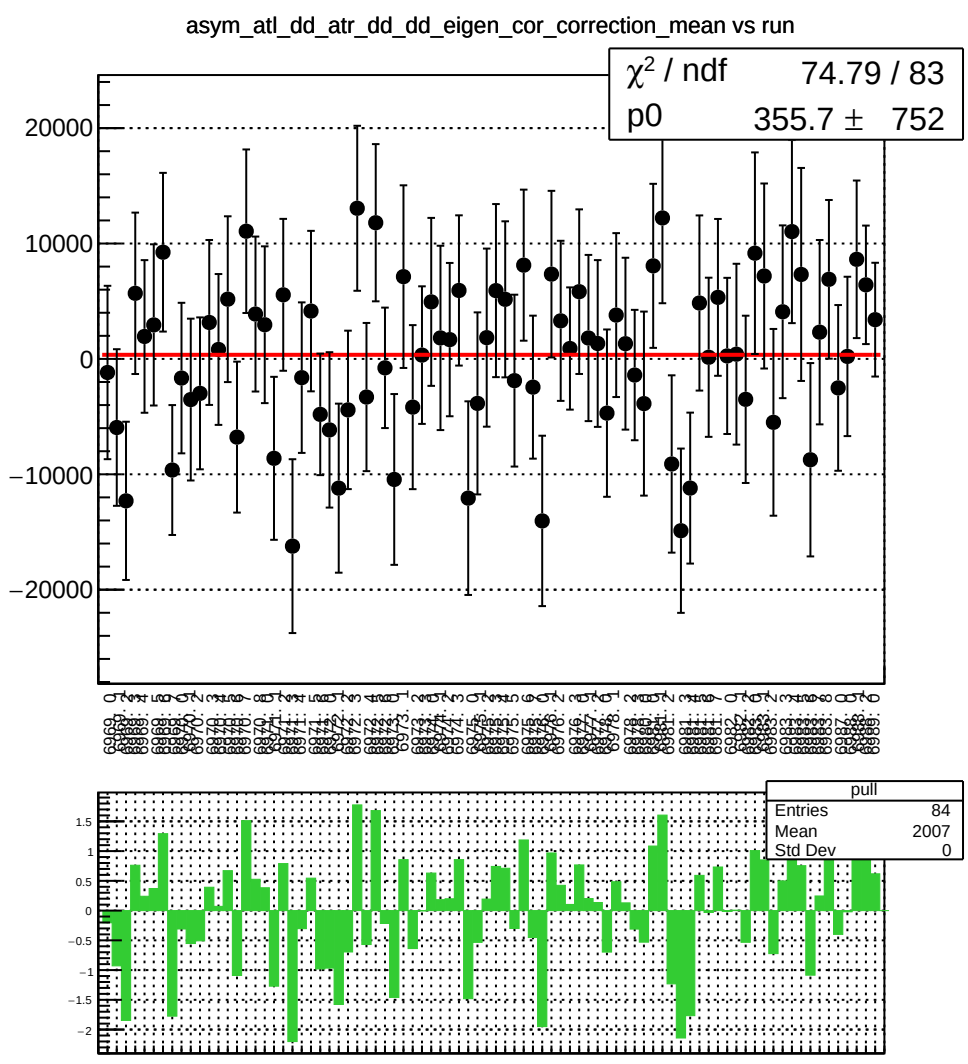

pull1D
Entries 84
Mean 0.002092
Std Dev 0.9436
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

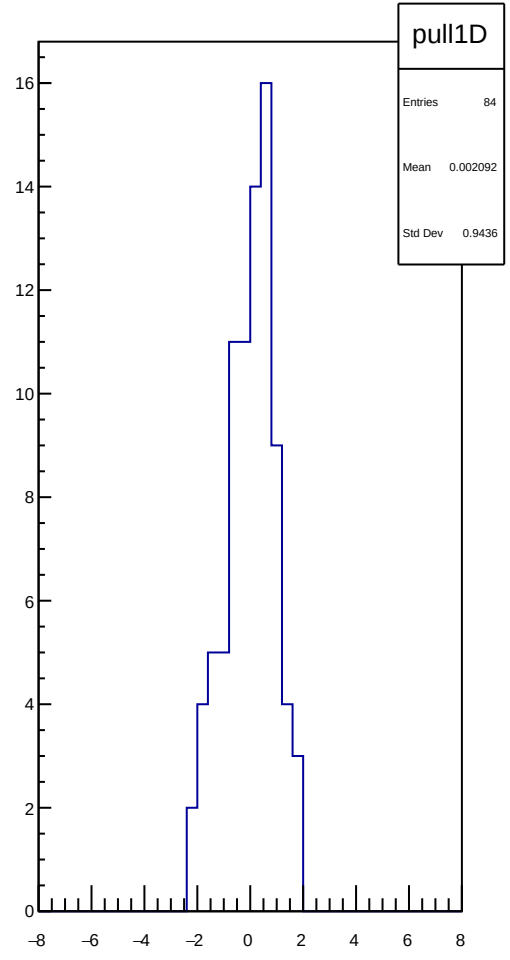

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.019e+04 / 83
p0 685.8 ± 0.5317
900
850
800
750
700
650
600

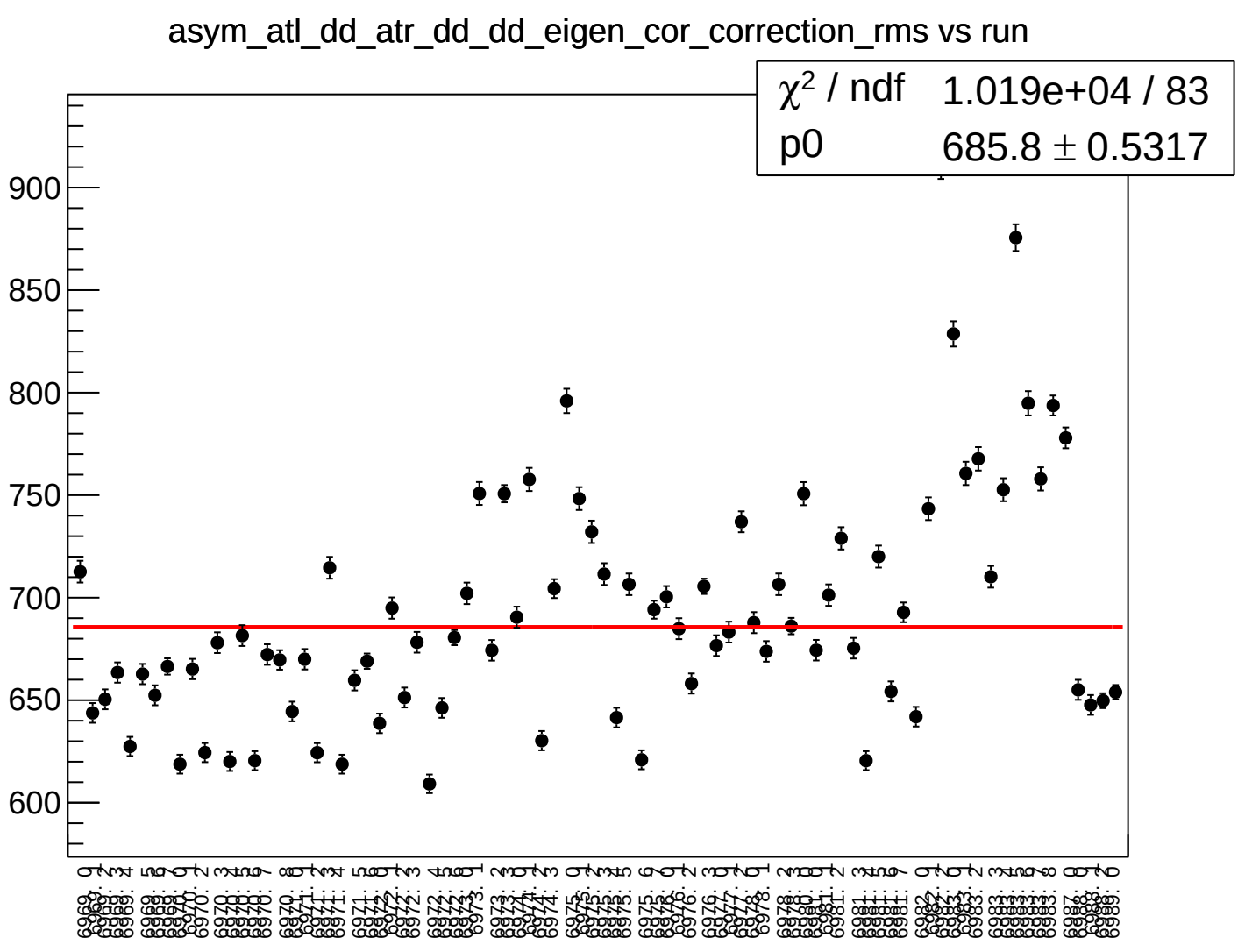

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 72.93 / 83
p0 148.7 ± 1359
pull
Entries 84
Mean −418.9
Std Dev 0

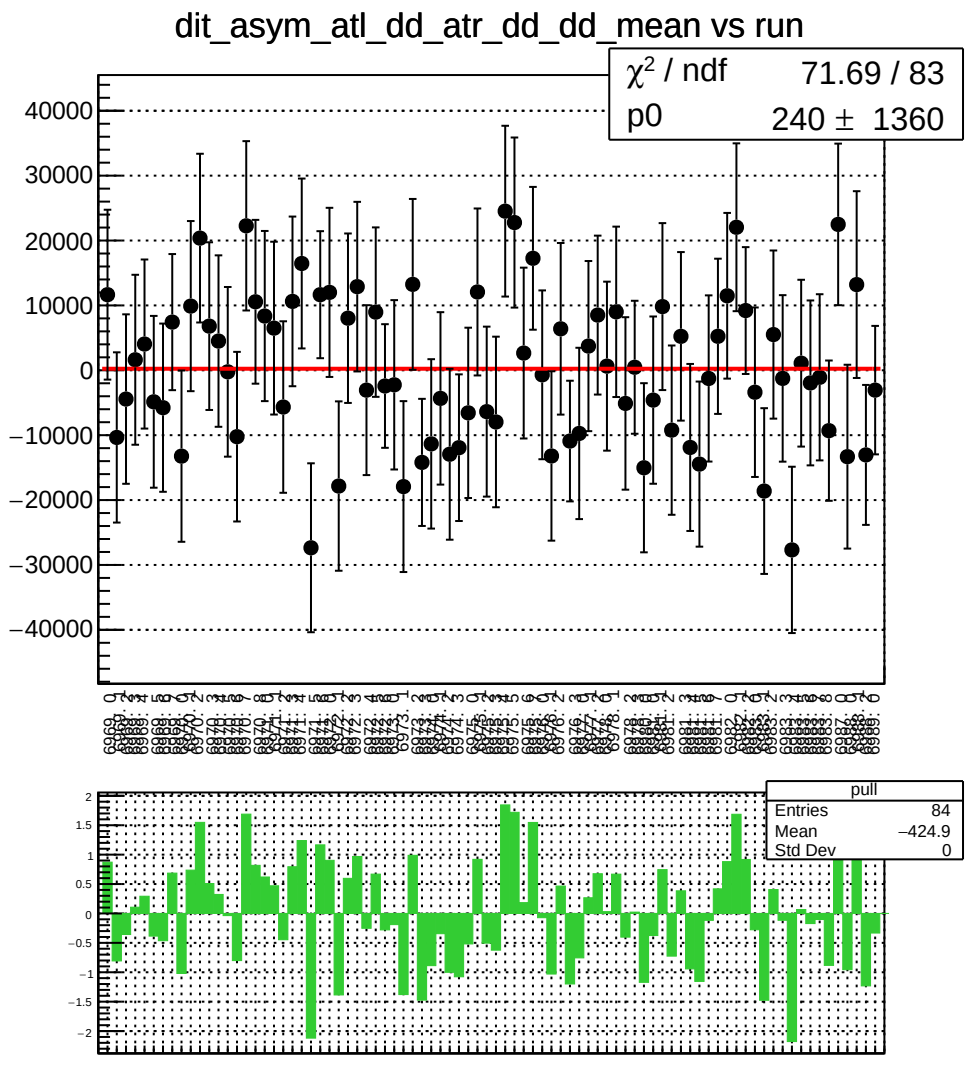

pull1D
Entries 84
Mean 0.006024
Std Dev 0.9317

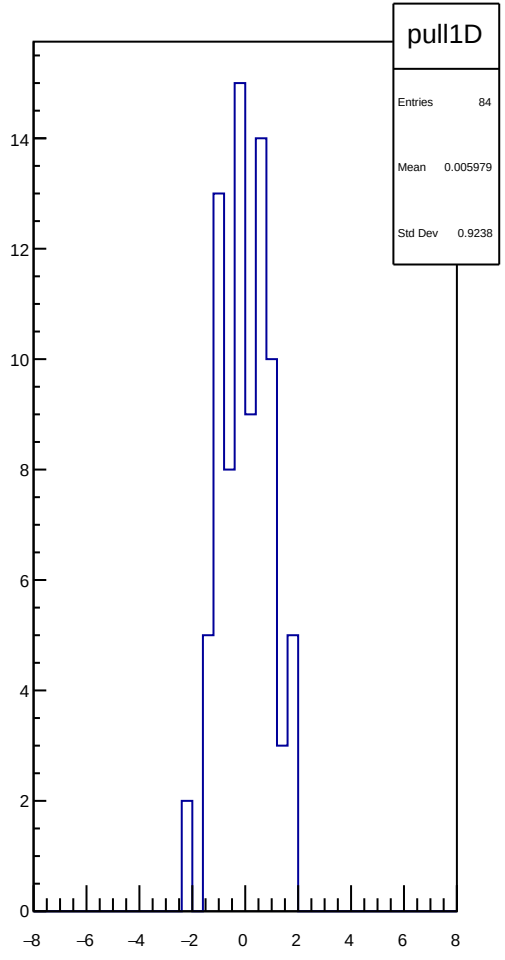

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 960.9 / 83
p0 1243 ± 0.9608
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

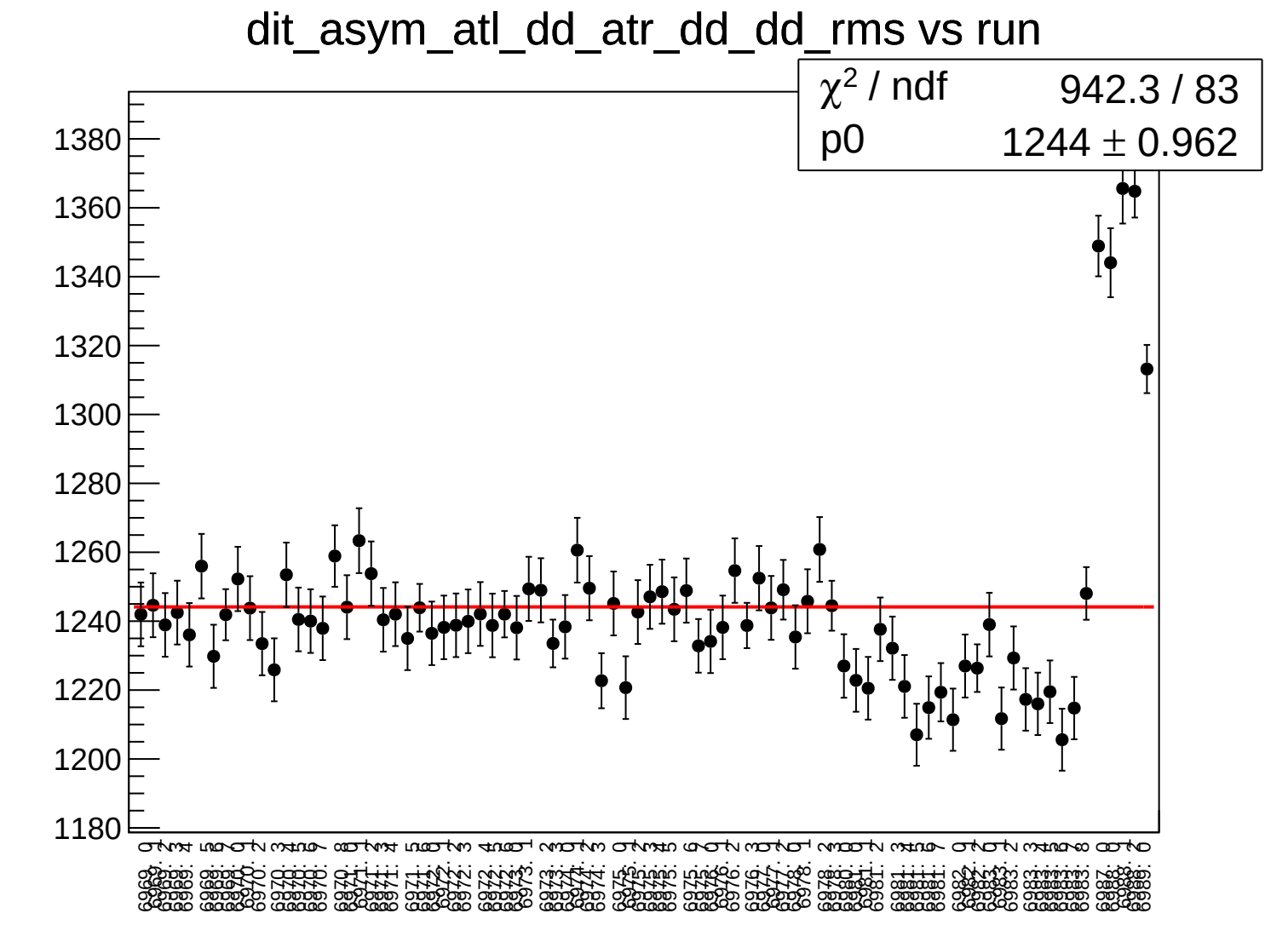

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.79 / 83
p0 355.7 ± 752
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 2007
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

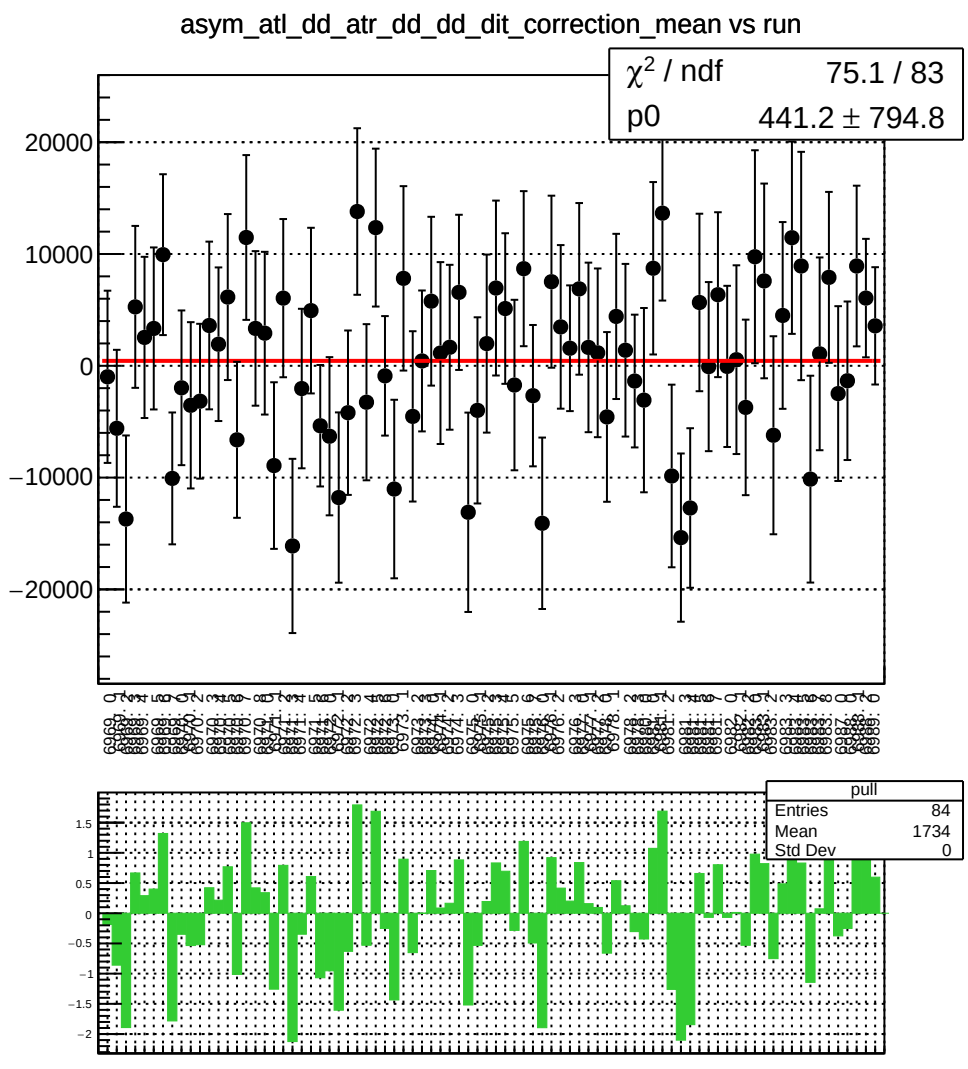

pull1D
Entries 84
Mean 0.002092
Std Dev 0.9436
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

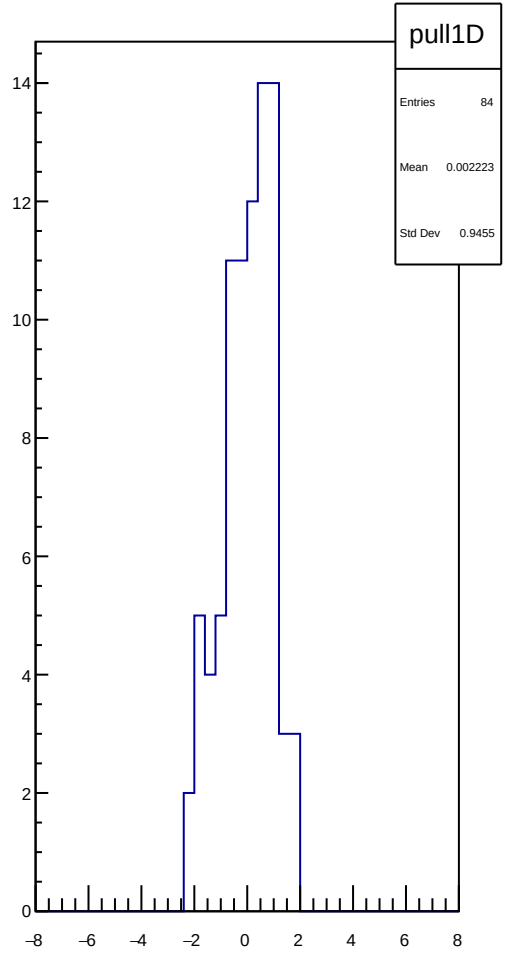

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.019e+04 / 83
p0 685.8 ± 0.5317
900
850
800
750
700
650
600

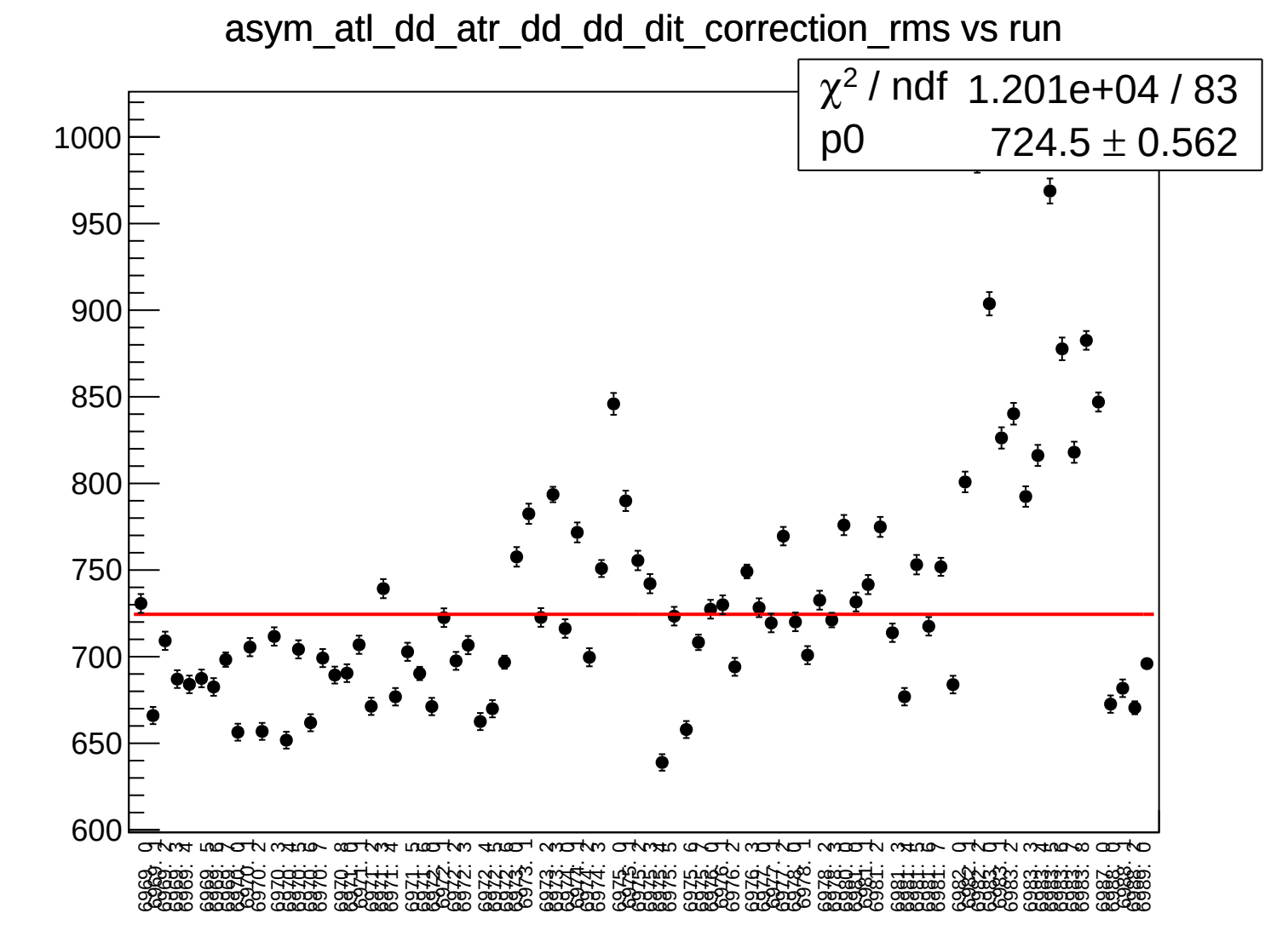

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 71.69 / 83
p0 240 ± 1360
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −424.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

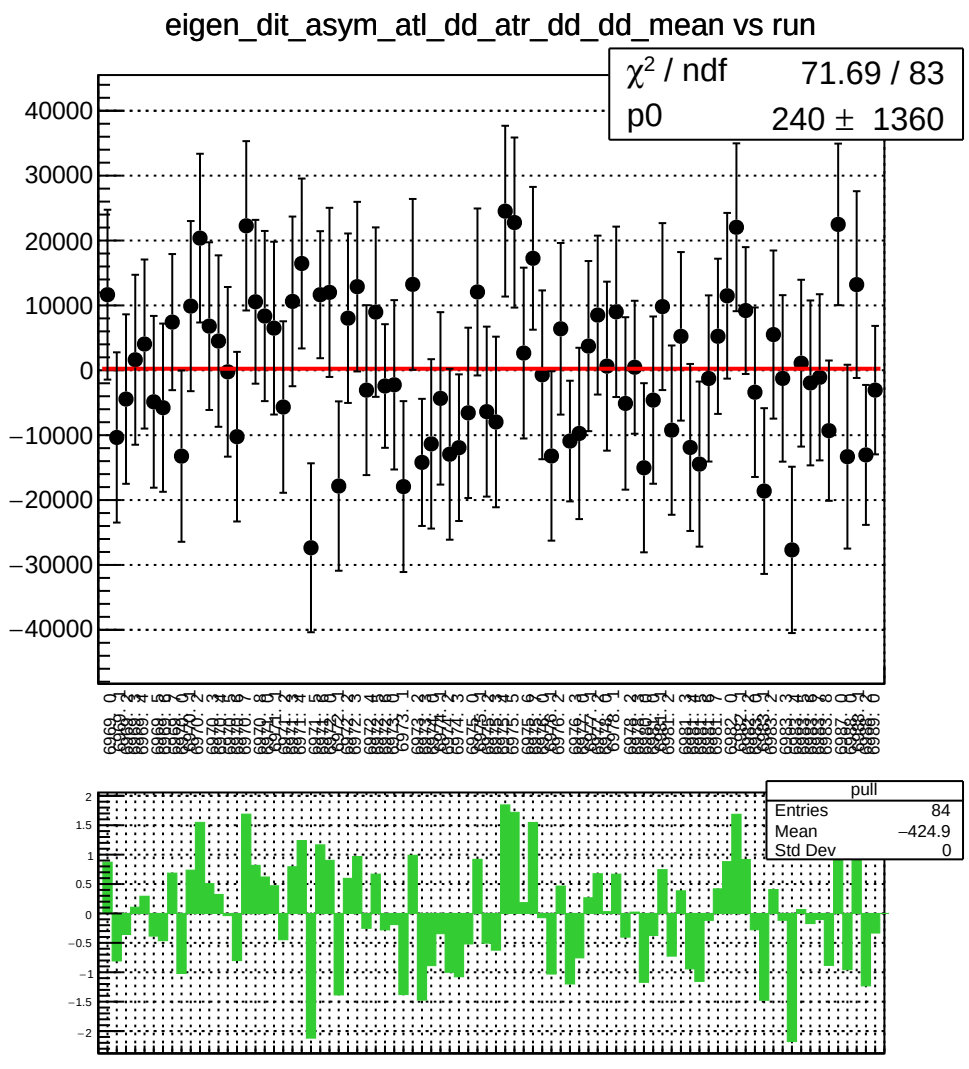

pull1D
Entries 84
Mean 0.005979
Std Dev 0.9238
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

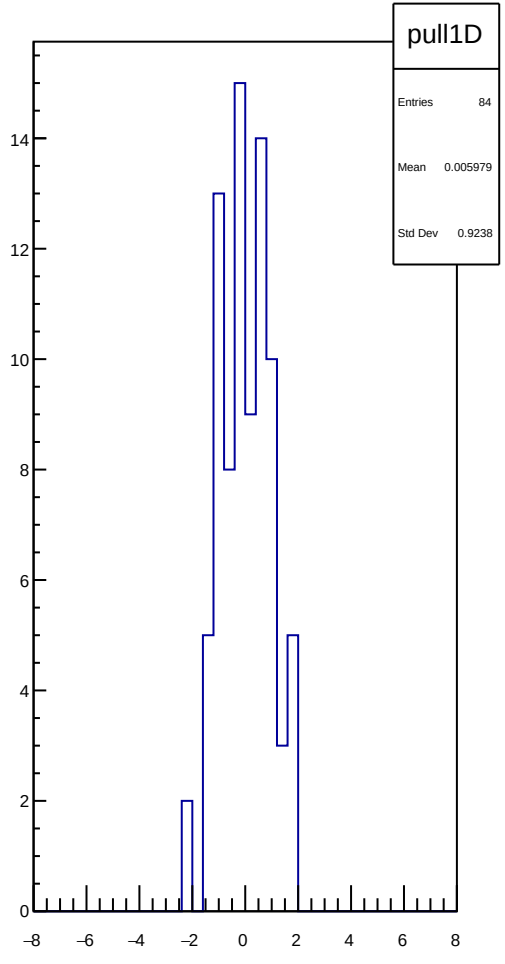

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 942.3 / 83
p0 1244 ± 0.962
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

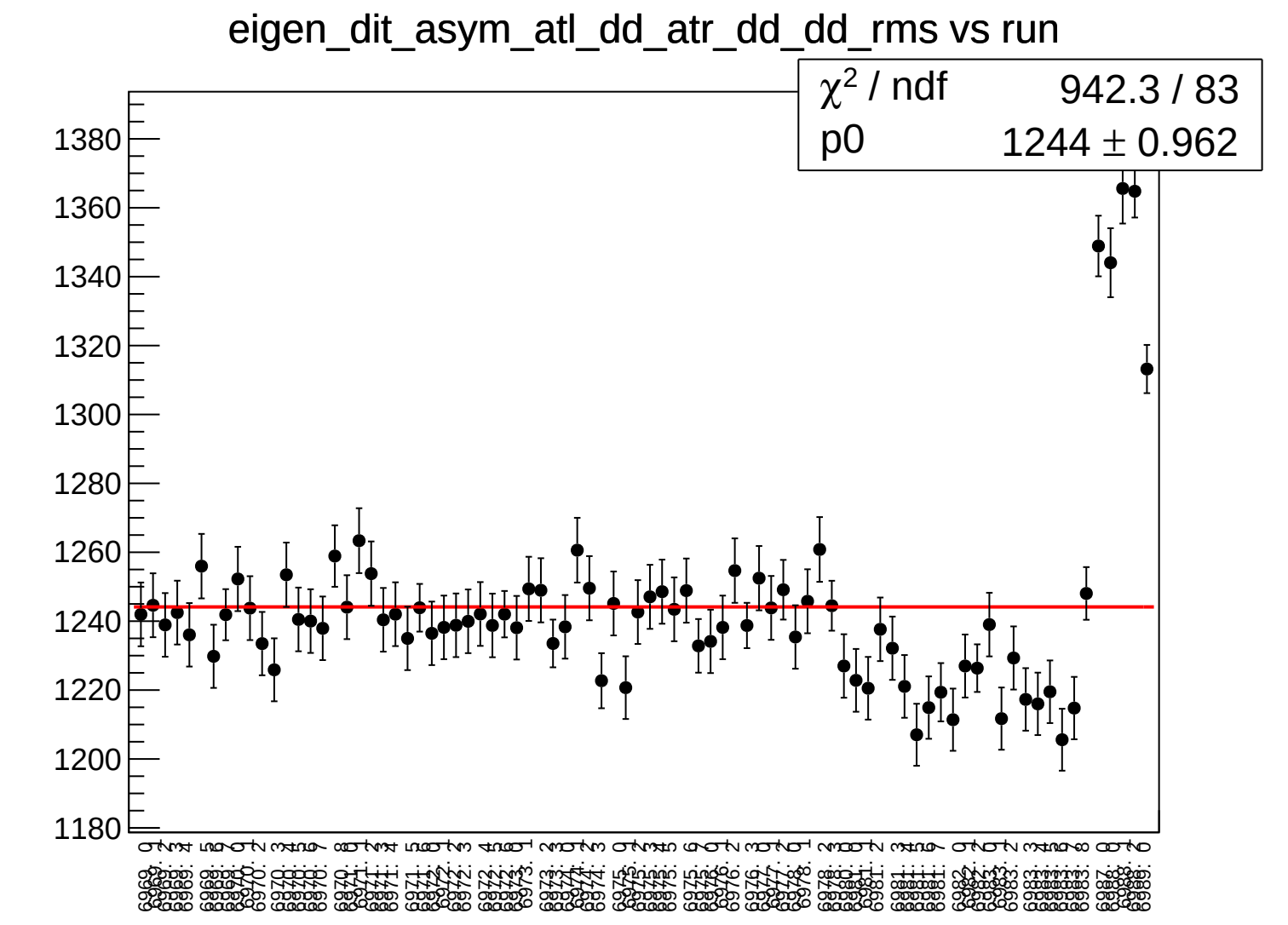

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 75.1 / 83
p0 441.2 ± 794.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1734
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

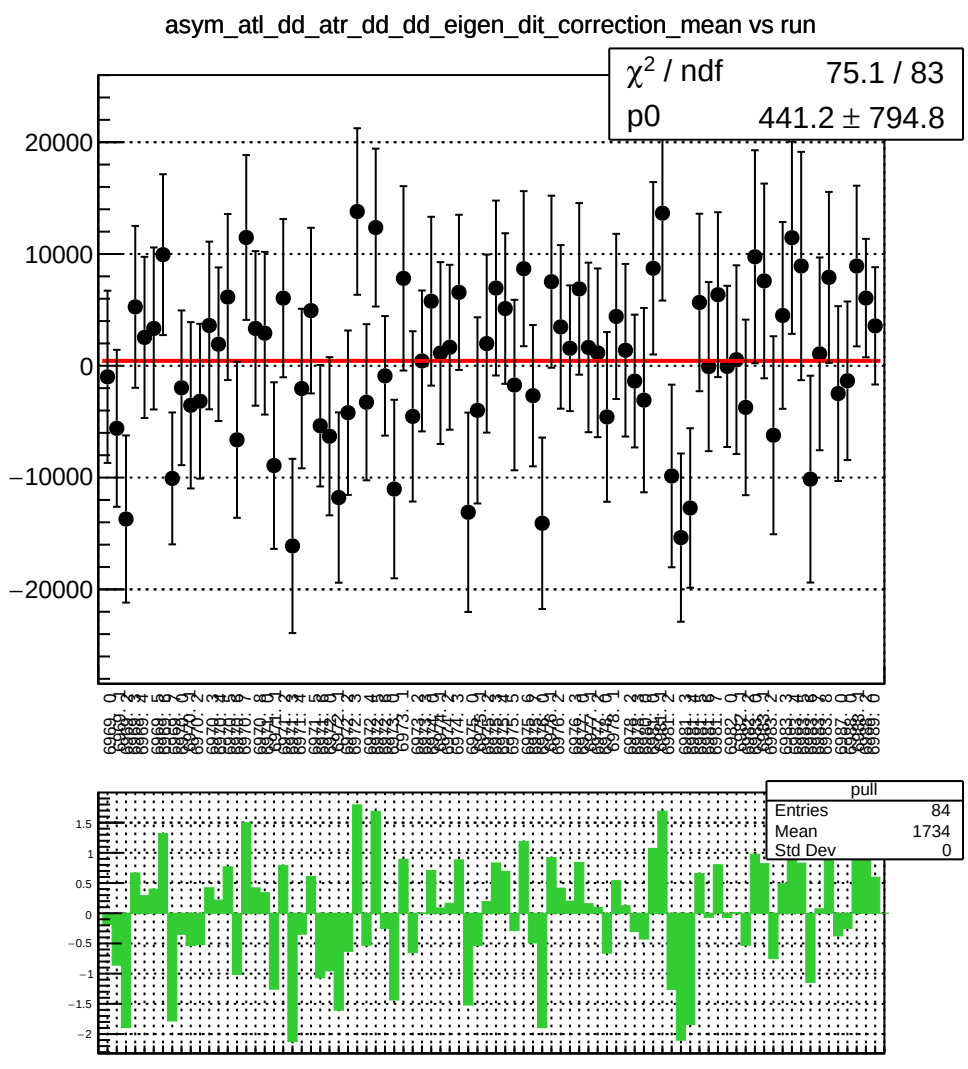

pull1D
Entries 84
Mean 0.002223
Std Dev 0.9455
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

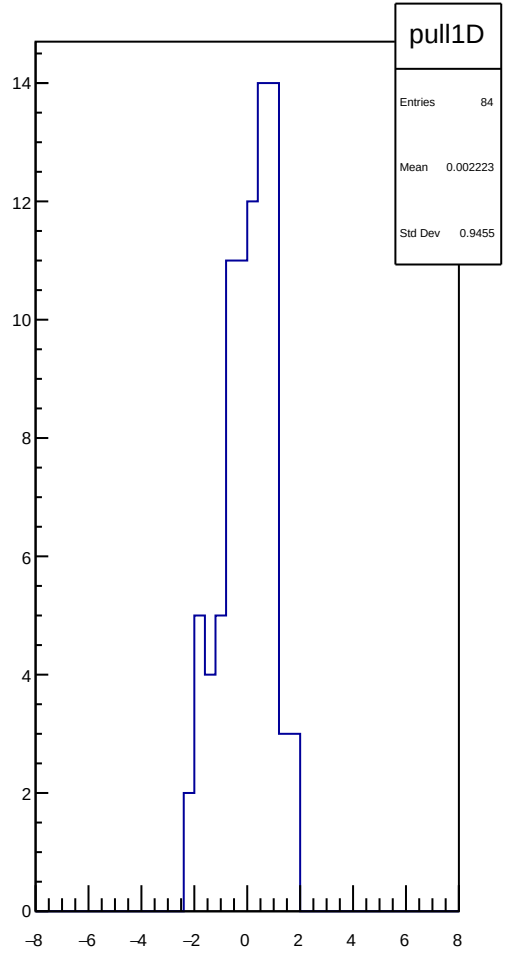

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.201e+04 / 83
p0 724.5 ± 0.562
1000
950
900
850
800
750
700
650
600

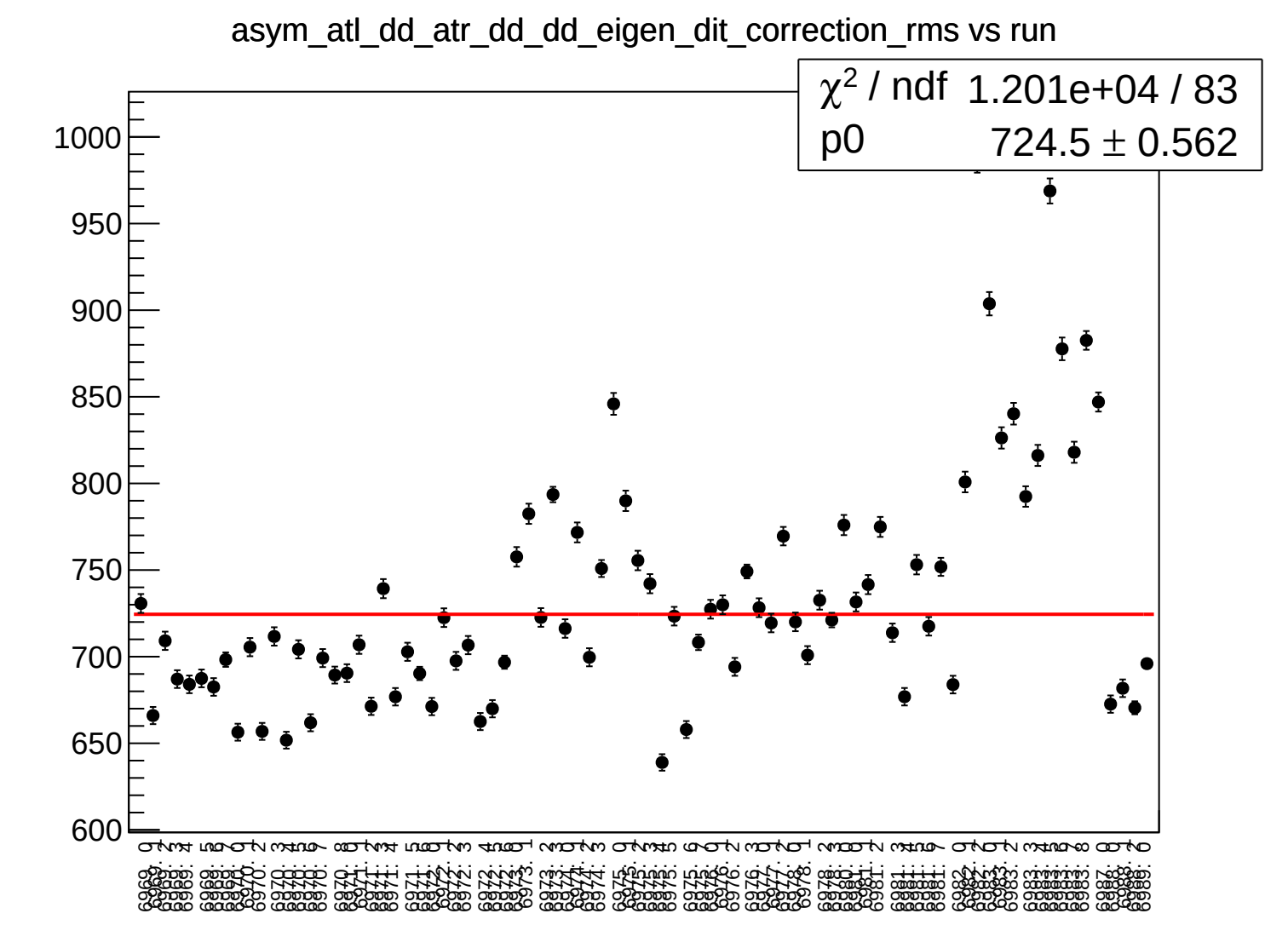

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 71.69 / 83
p0 240 ± 1360
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −424.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

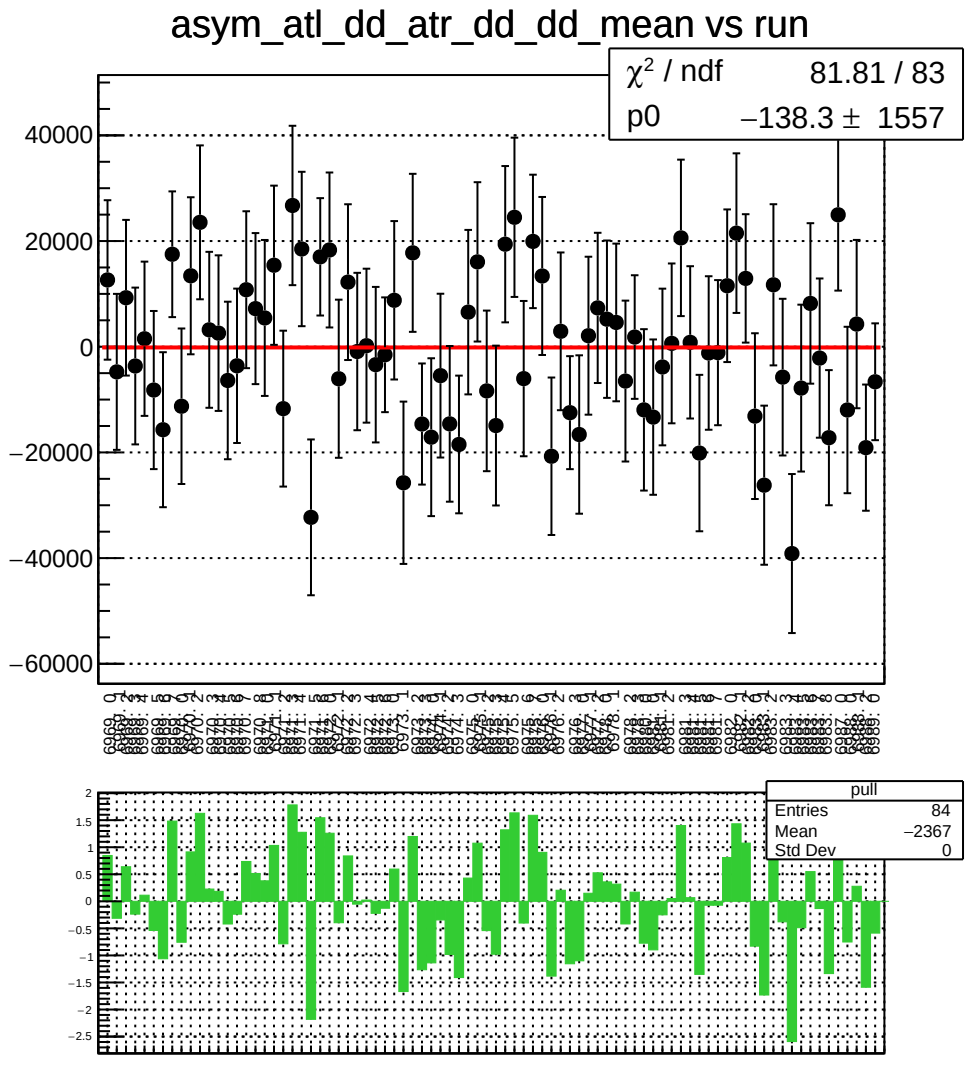

pull1D
Entries 84
Mean 0.005979
Std Dev 0.9238
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

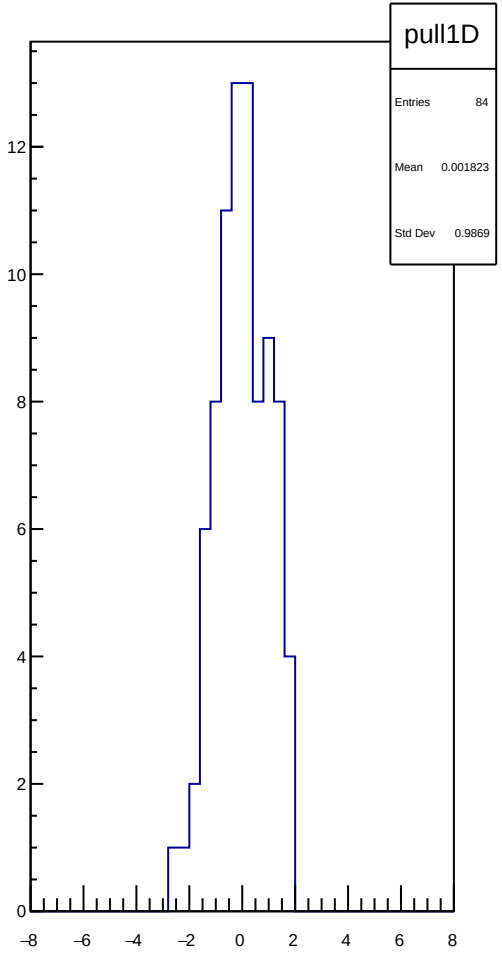

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 942.3 / 83
p0 1244 ± 0.962
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

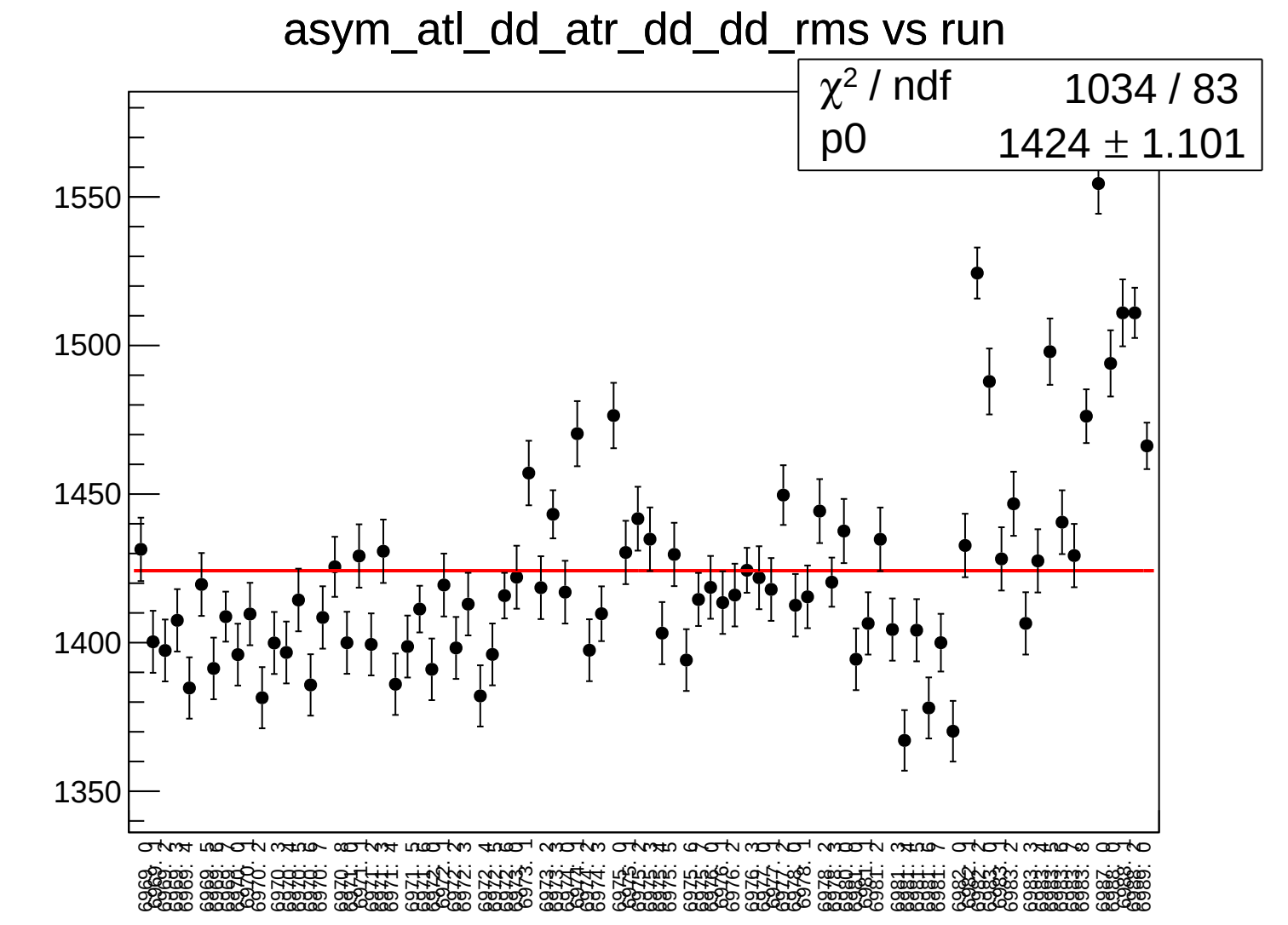

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.1 / 83
p0 441.2 ± 794.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1734
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

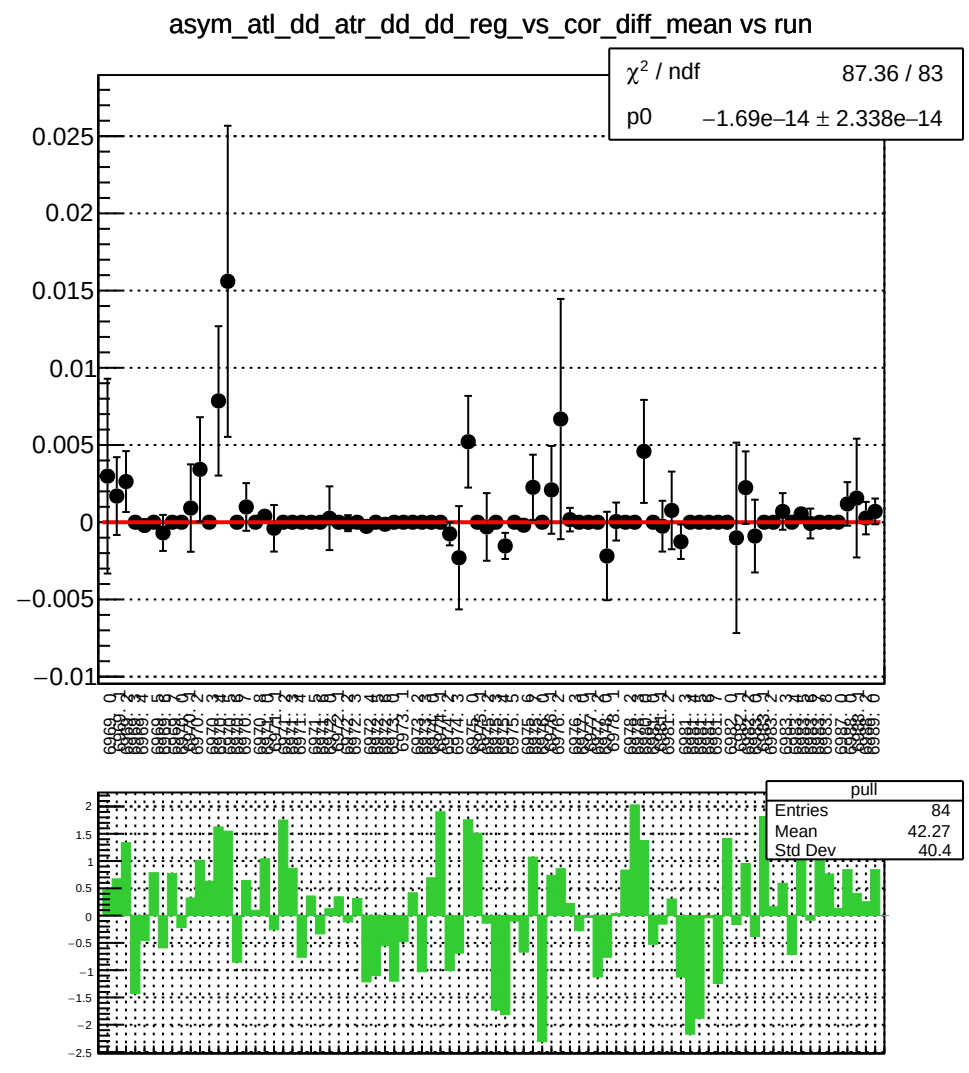

pull1D
Entries 84
Mean 0.002223
Std Dev 0.9455
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

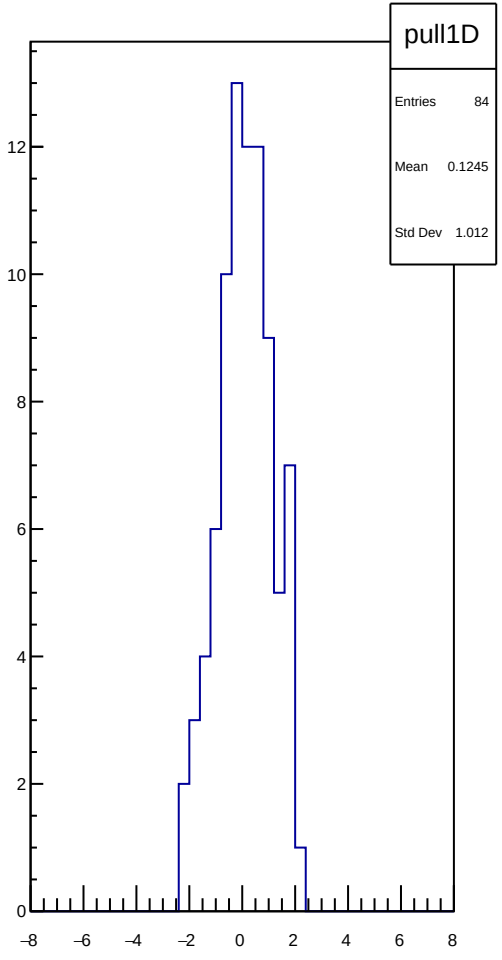

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.201e+04 / 83
p0 724.5 ± 0.562
1000
950
900
850
800
750
700
650
600

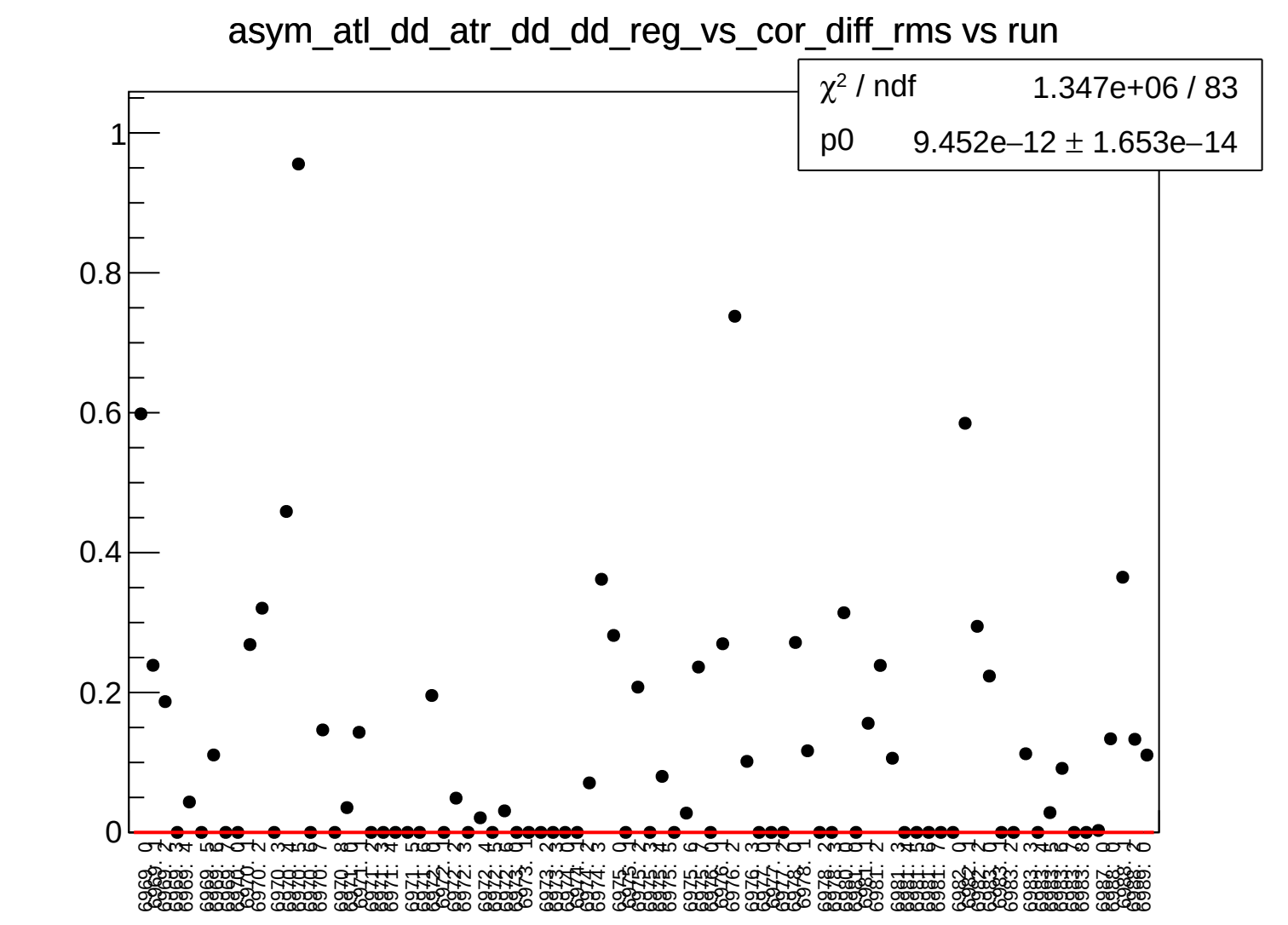

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.81 / 83
p0 −138.3 ± 1557
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −2367
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

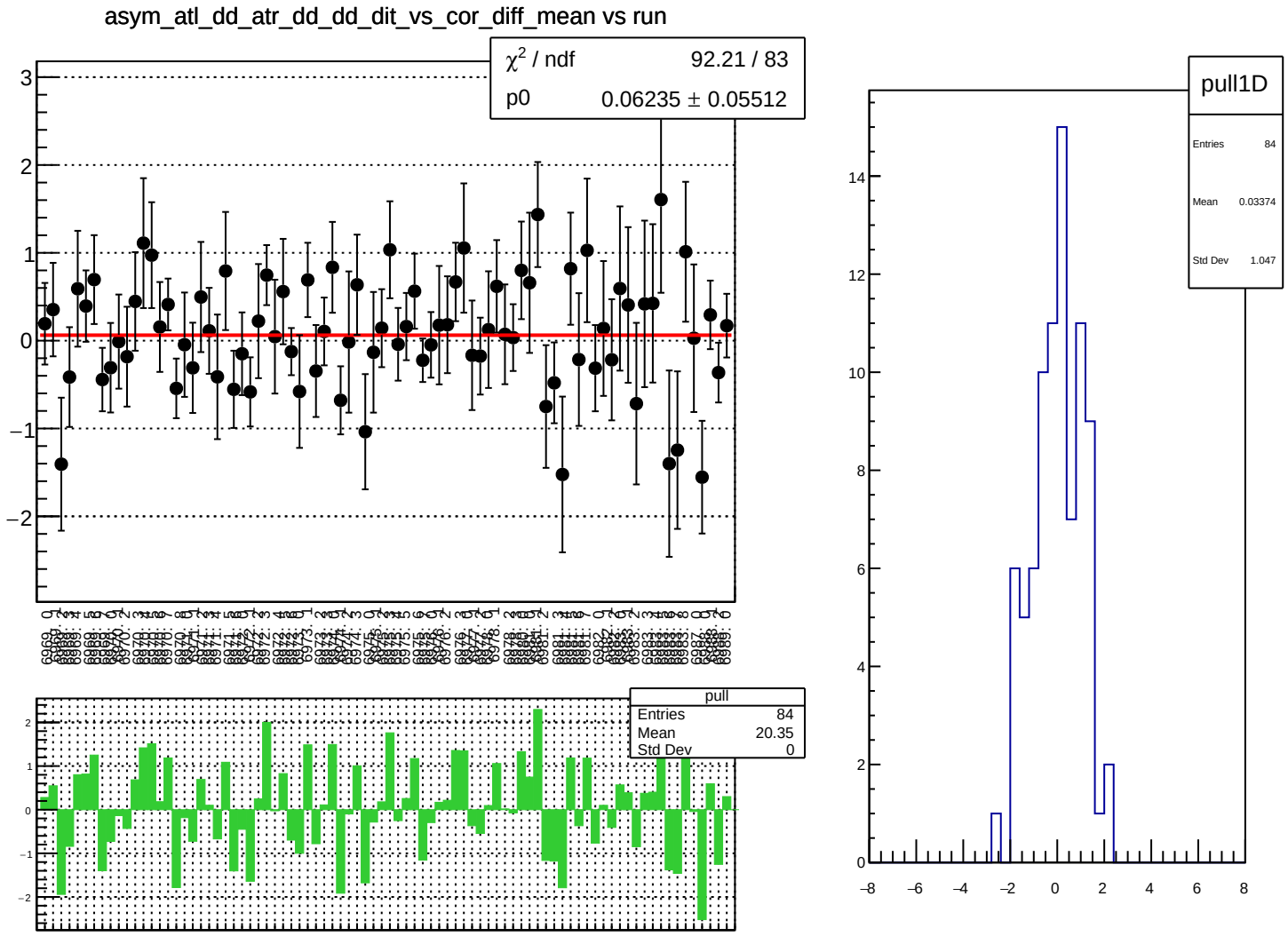

pull1D
Entries 84
Mean 0.001823
Std Dev 0.9869
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

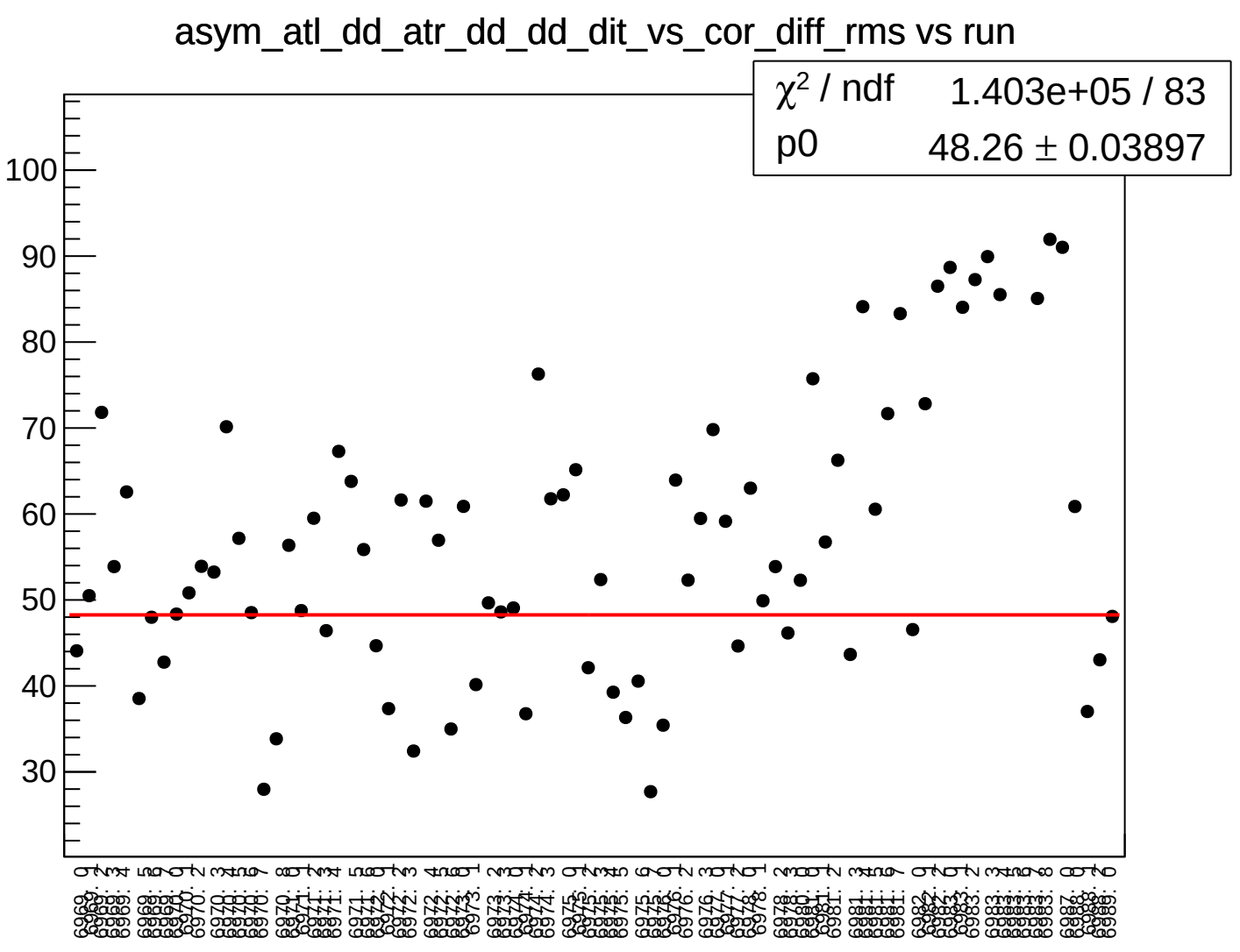

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1034 / 83
p0 1424 ± 1.101
1550
1500
1450
1400
1350

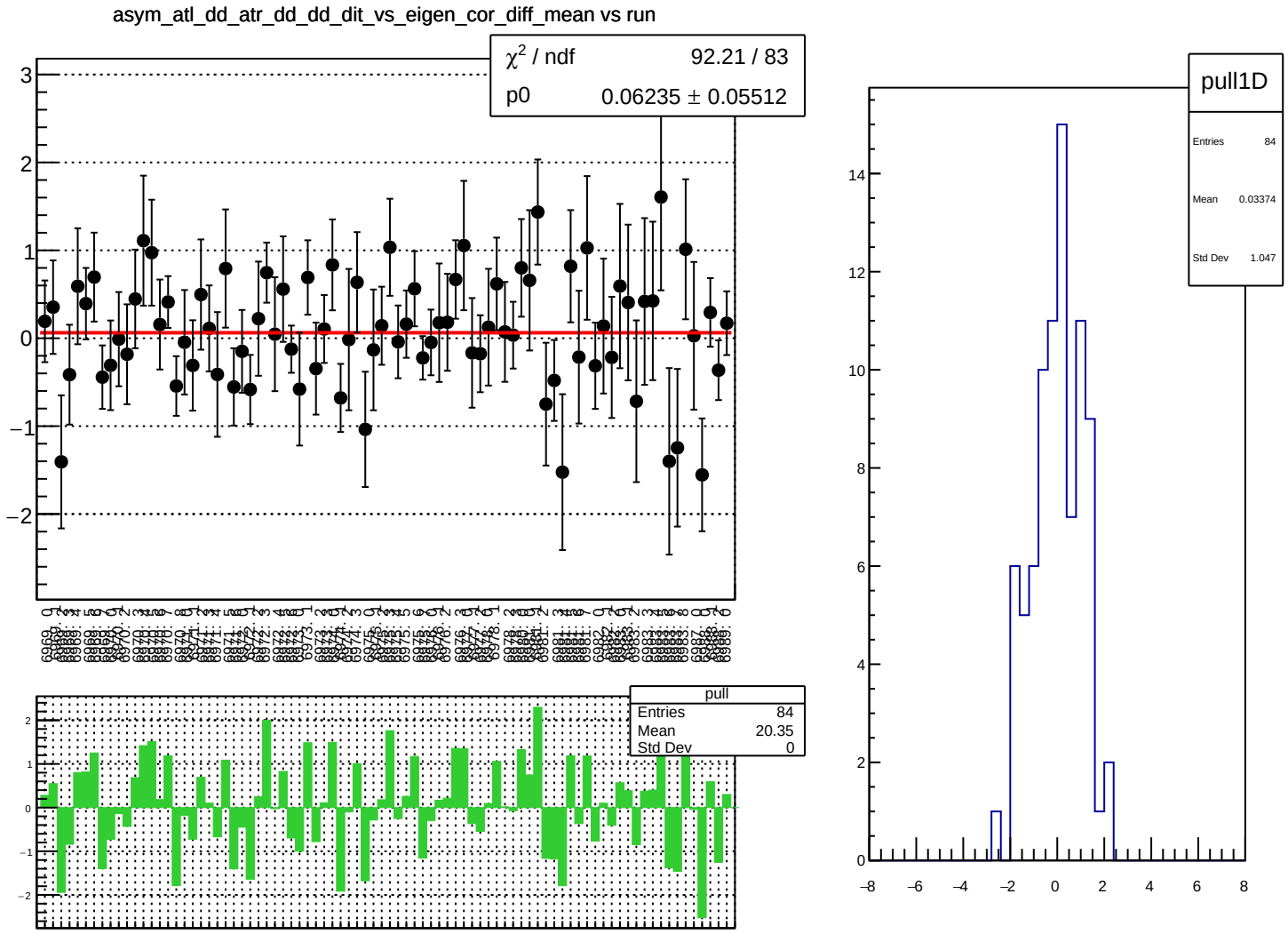

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.36 / 83
p0 −1.69e−14 ± 2.338e−14
pull
Entries 84
Mean 42.27
Std Dev 40.4

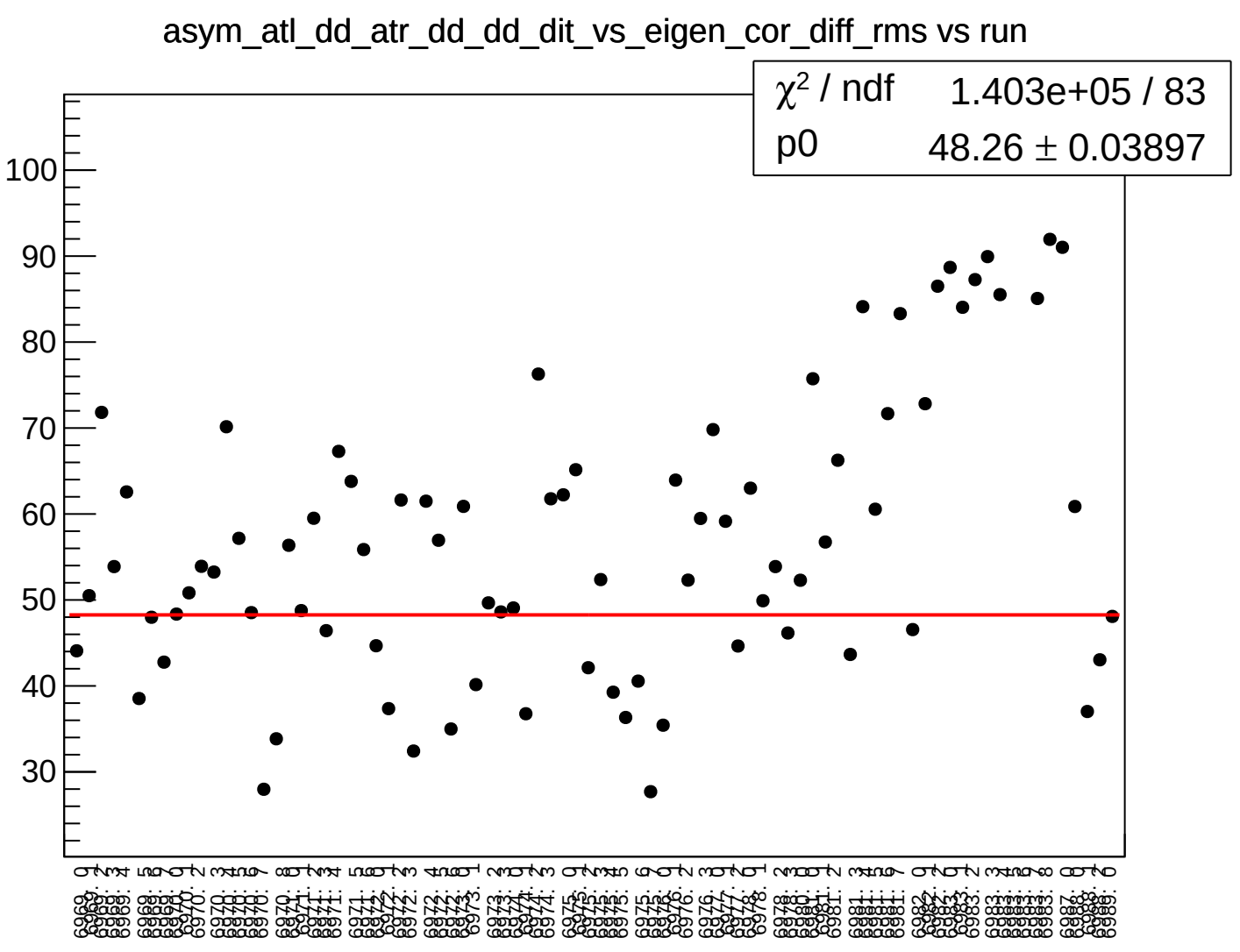

pull1D
Entries 84
Mean 0.1245
Std Dev 1.012

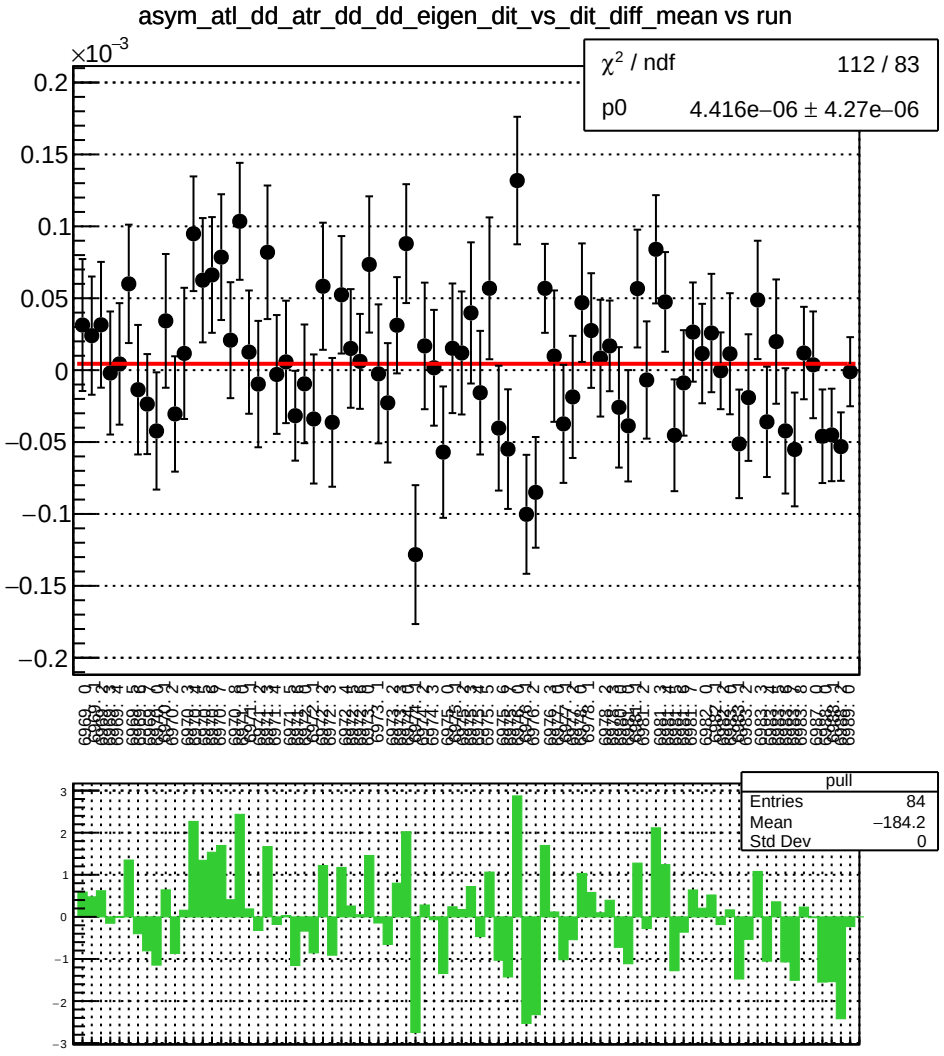

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.347e+06 / 83
p0 9.452e−12 ± 1.653e−14
1
0.8
0.6
0.4
0.2
0

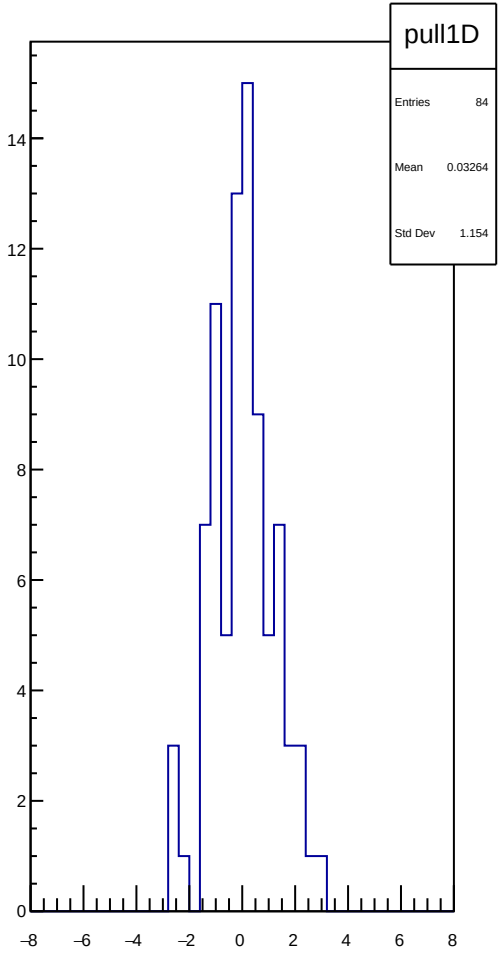

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.21 / 83
p0 0.06235 ± 0.05512
pull
Entries 84
Mean 20.35
Std Dev 0
pull1D
Entries 84
Mean 0.03374
Std Dev 1.047

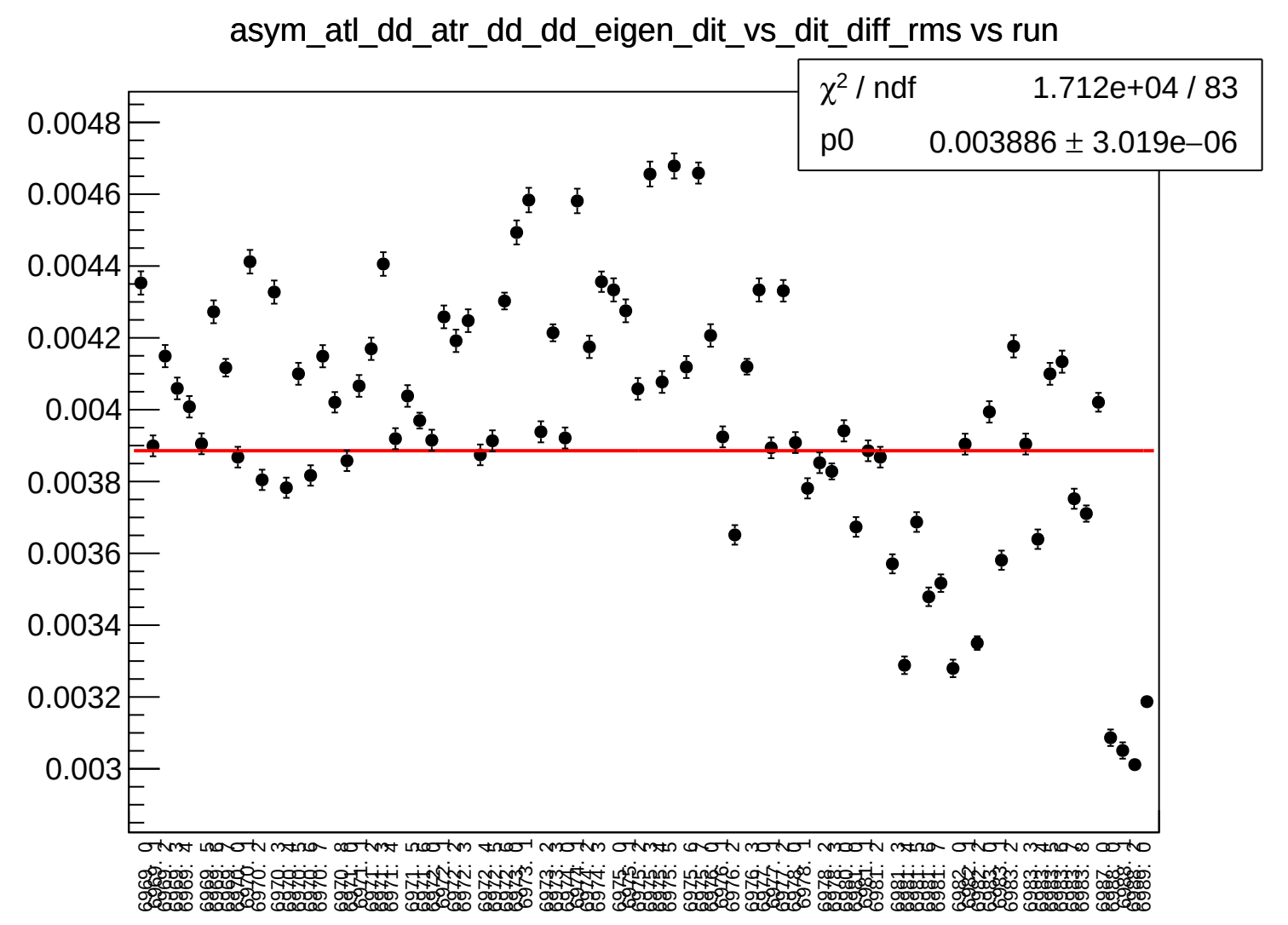

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.403e+05 / 83
p0 48.26 ± 0.03897
100
90
80
70
60
50
40
30

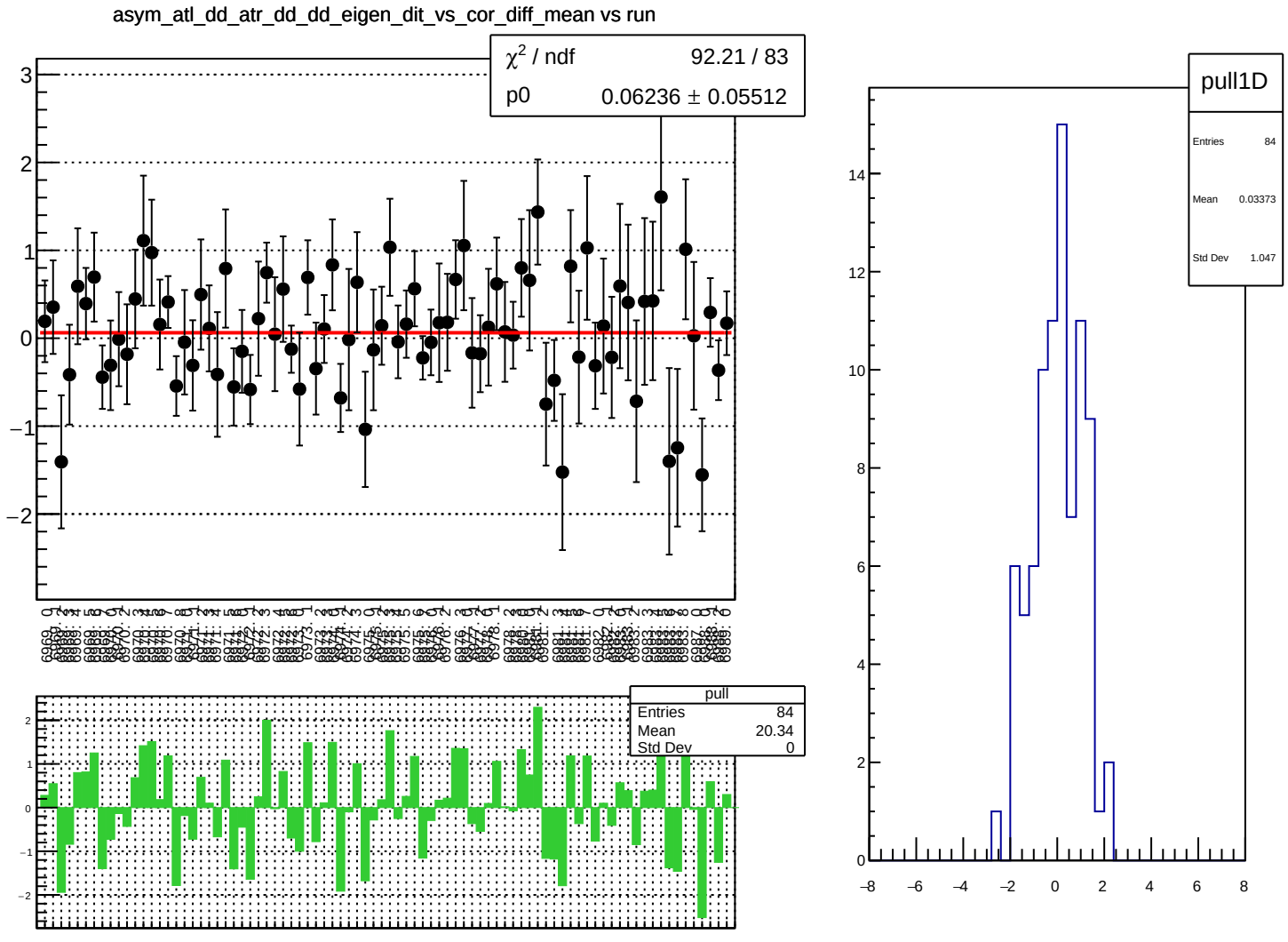

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.21 / 83
p0 0.06235 ± 0.05512
pull
Entries 84
Mean 20.35
Std Dev 0
pull1D
Entries 84
Mean 0.03374
Std Dev 1.047

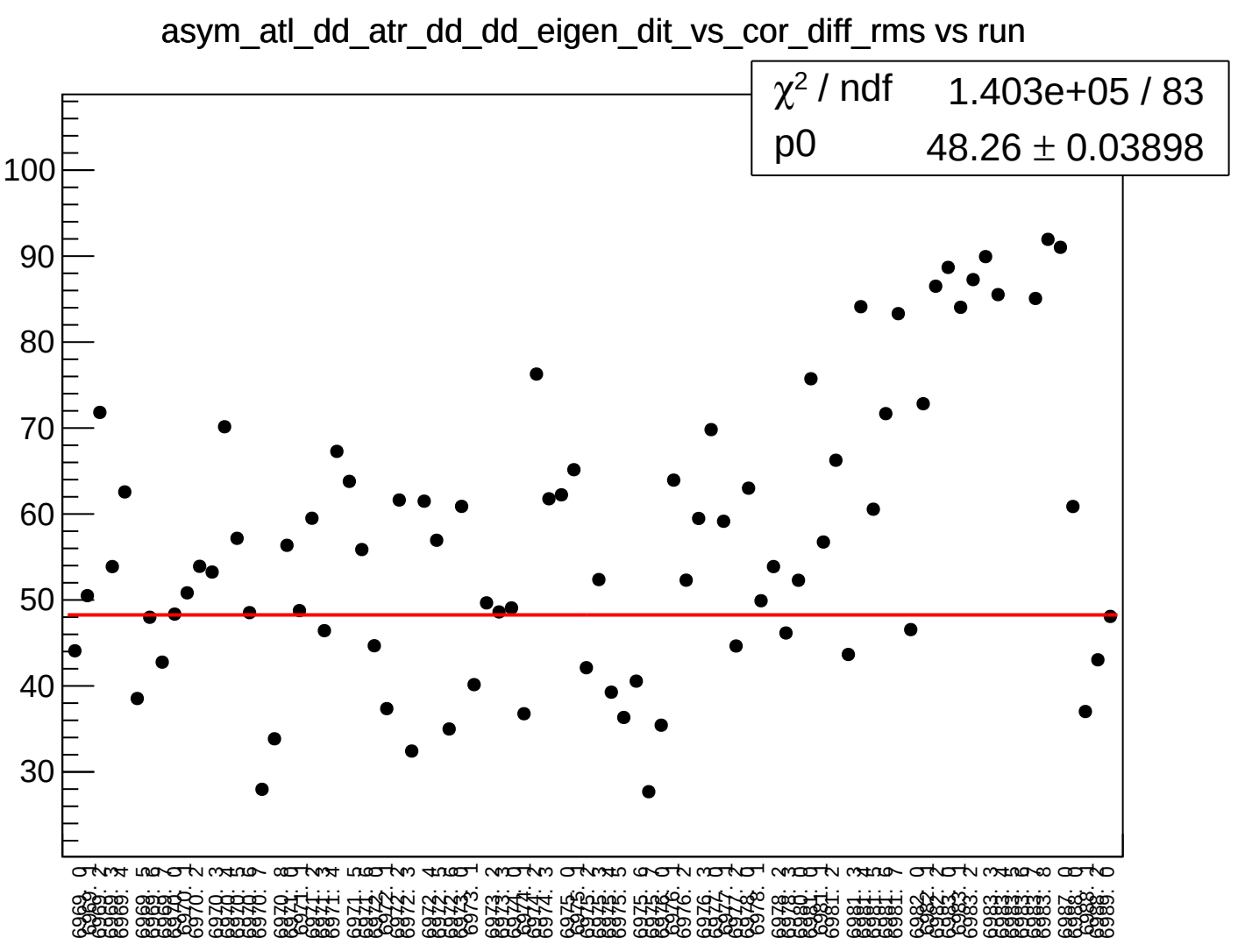

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.403e+05 / 83
p0 48.26 ± 0.03897
100
90
80
70
60
50
40
30

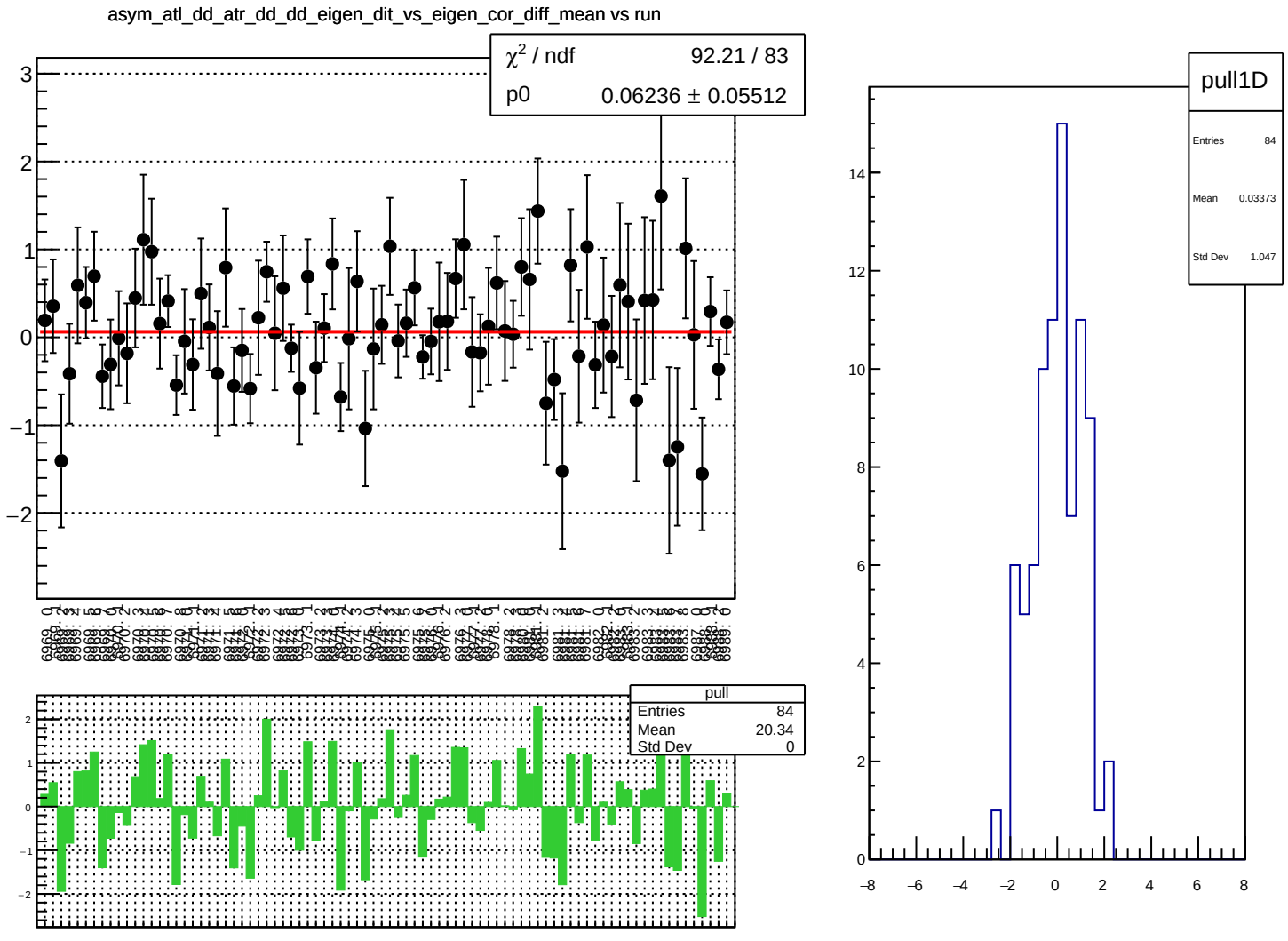

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112 / 83
p0 4.416e−06 ± 4.27e−06
pull
Entries 84
Mean −184.2
Std Dev 0

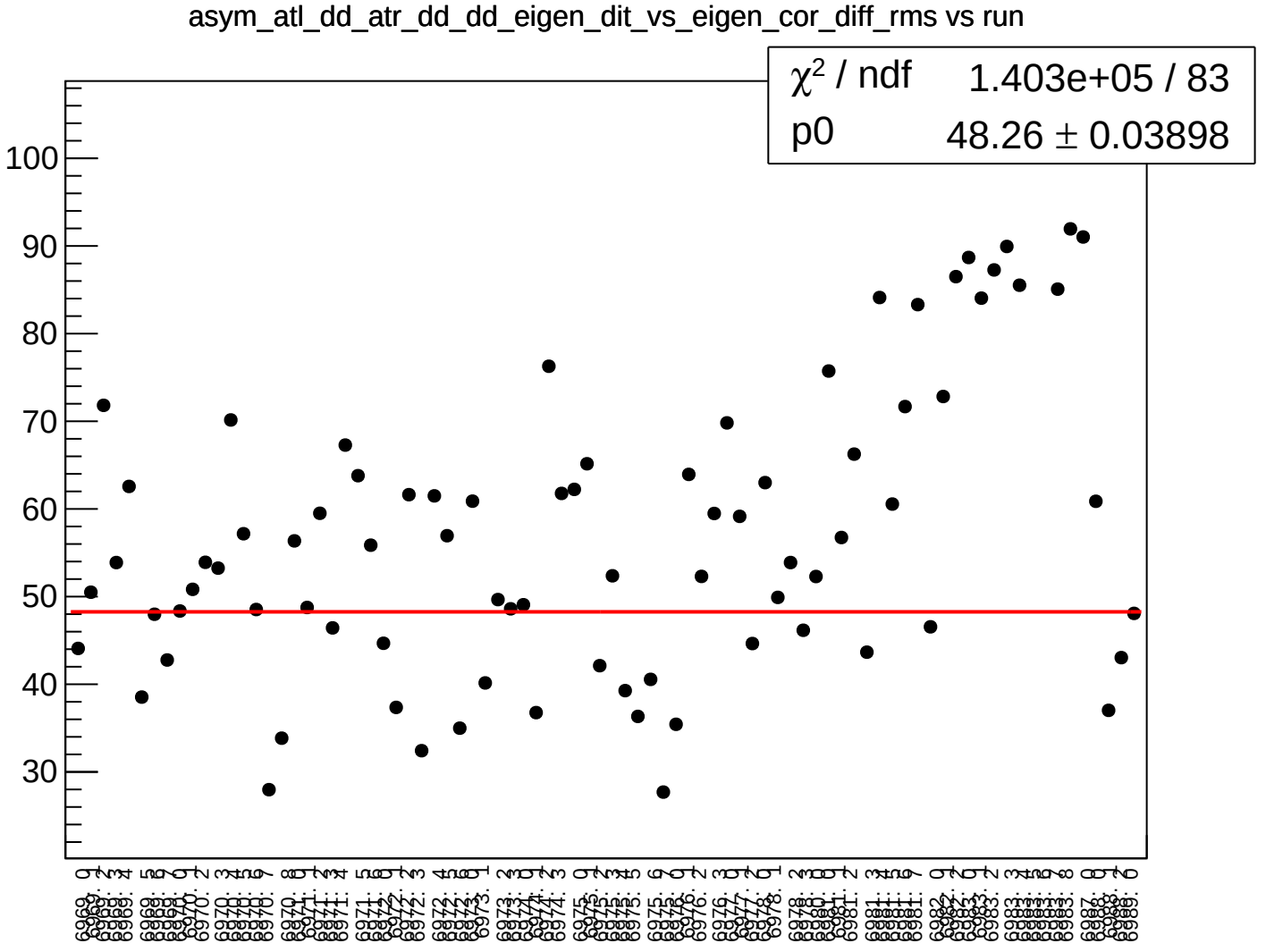

pull1D
Entries 84
Mean 0.03264
Std Dev 1.154

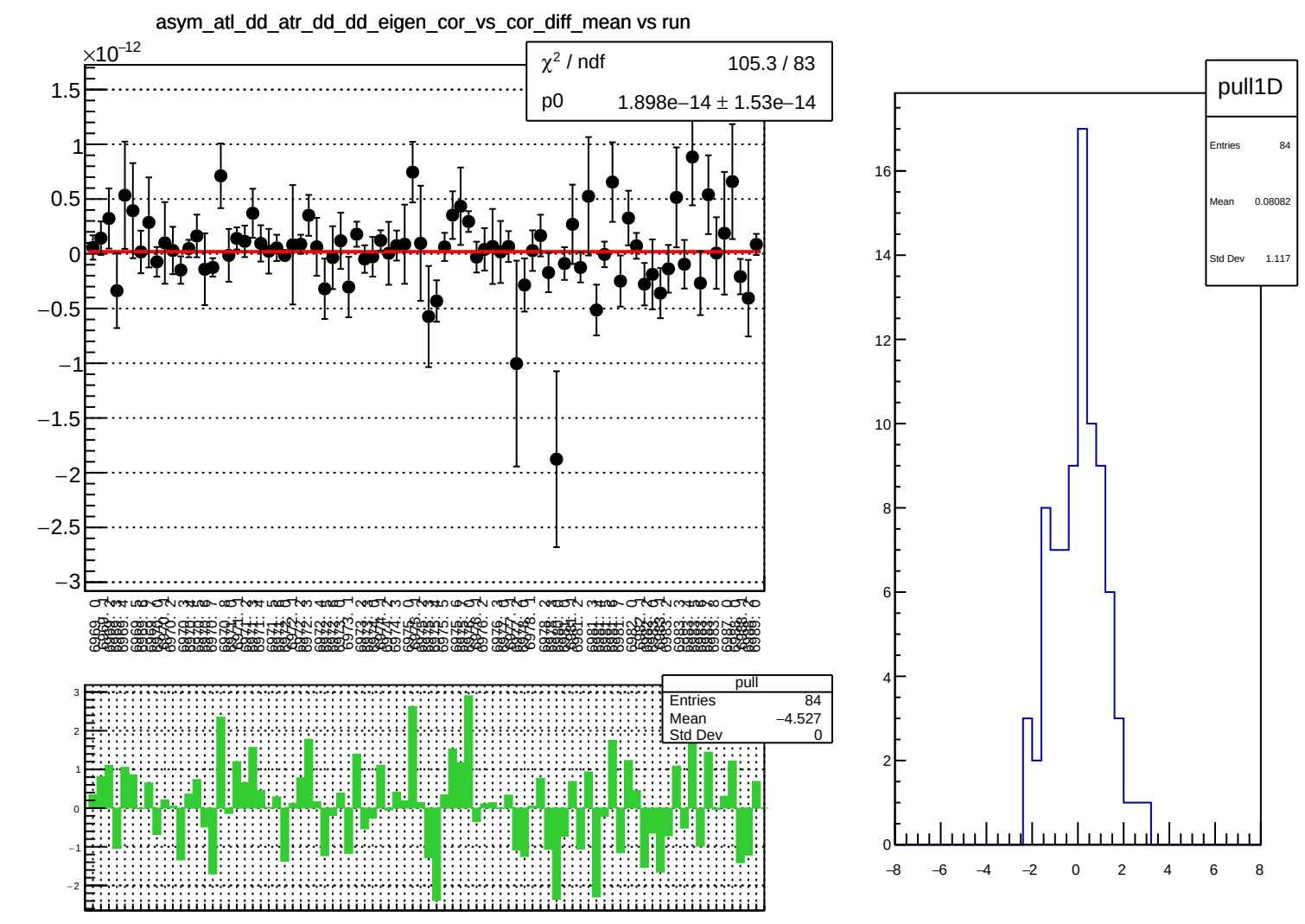

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.712e+04 / 83
p0 0.003886 ± 3.019e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

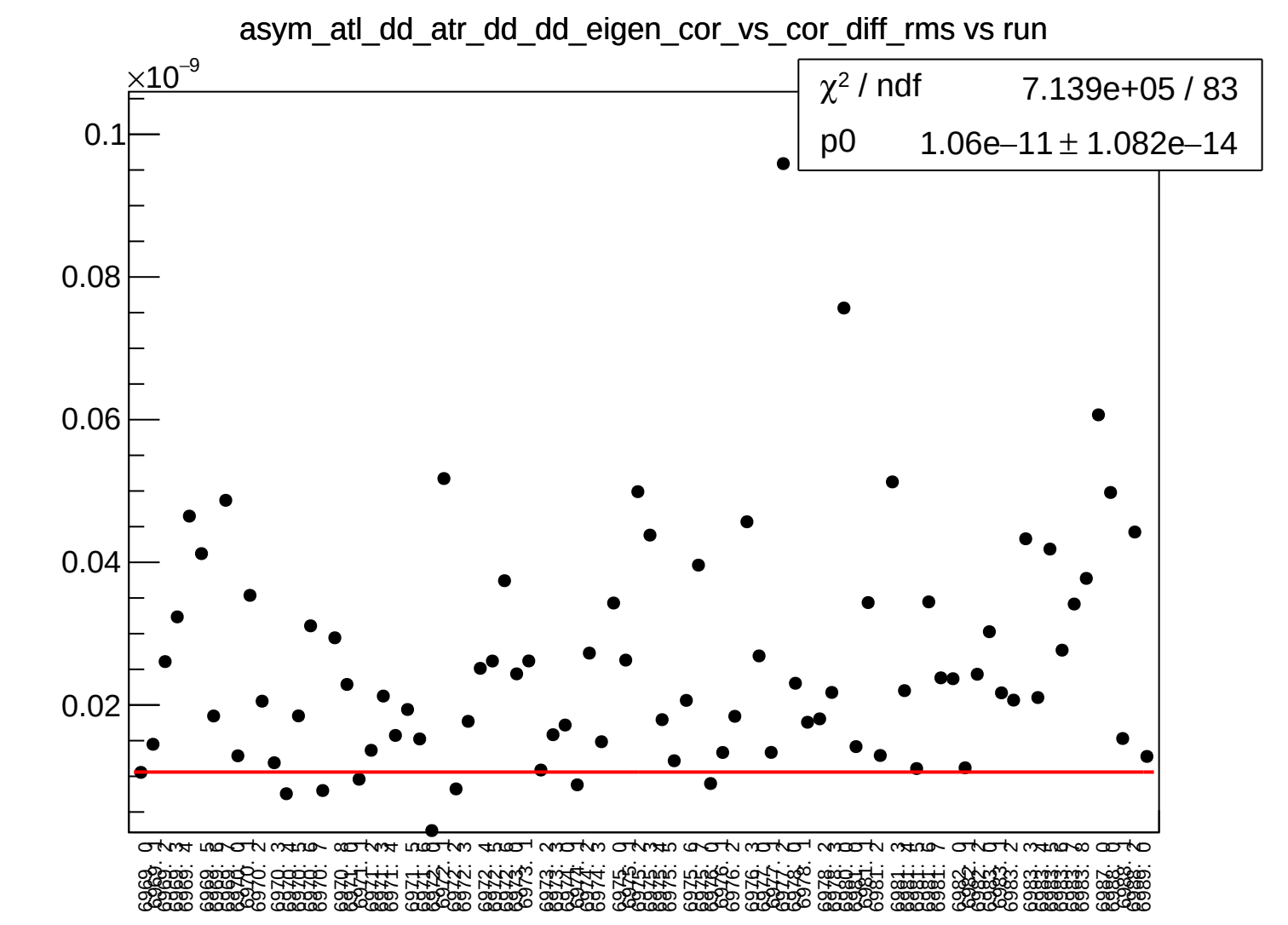

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.21 / 83
p0 0.06236 ± 0.05512
pull
Entries 84
Mean 20.34
Std Dev 0
pull1D
Entries 84
Mean 0.03373
Std Dev 1.047

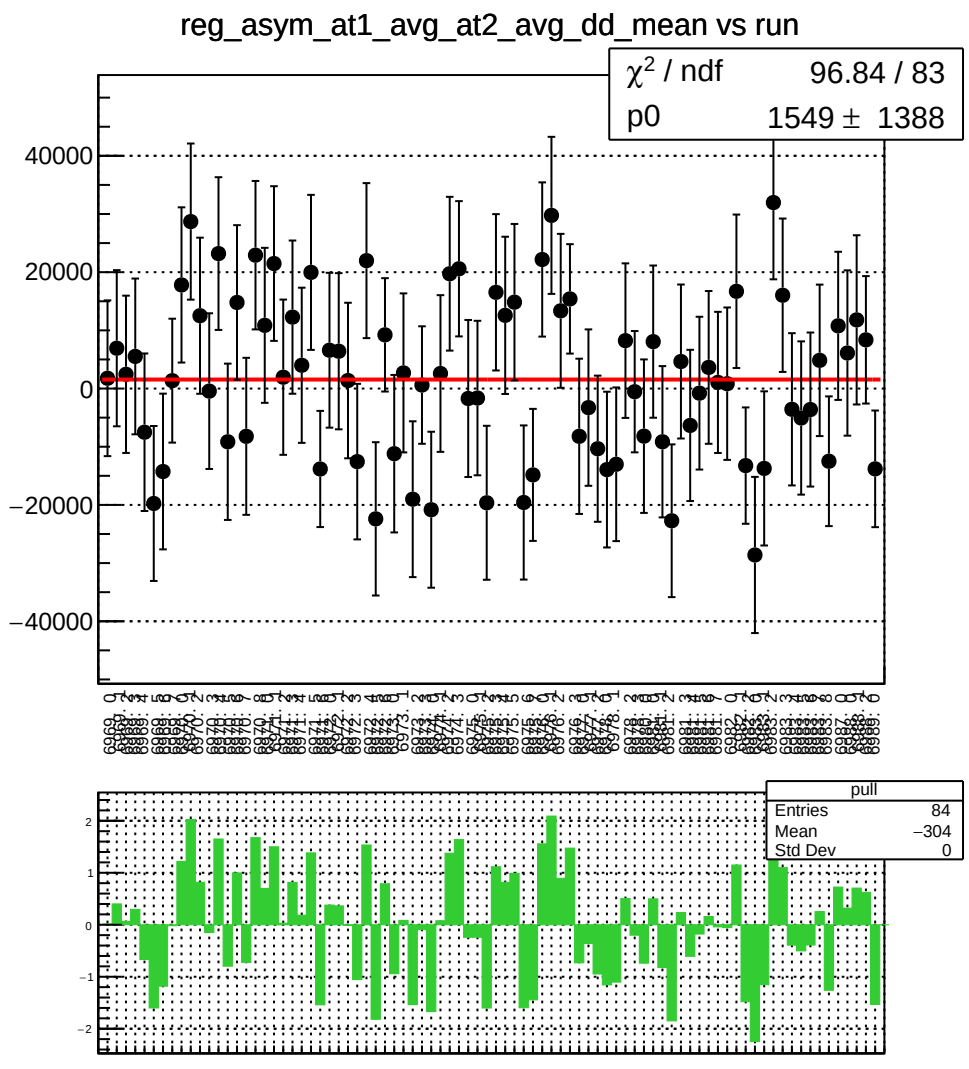

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.403e+05 / 83
p0 48.26 ± 0.03898
100
90
80
70
60
50
40
30

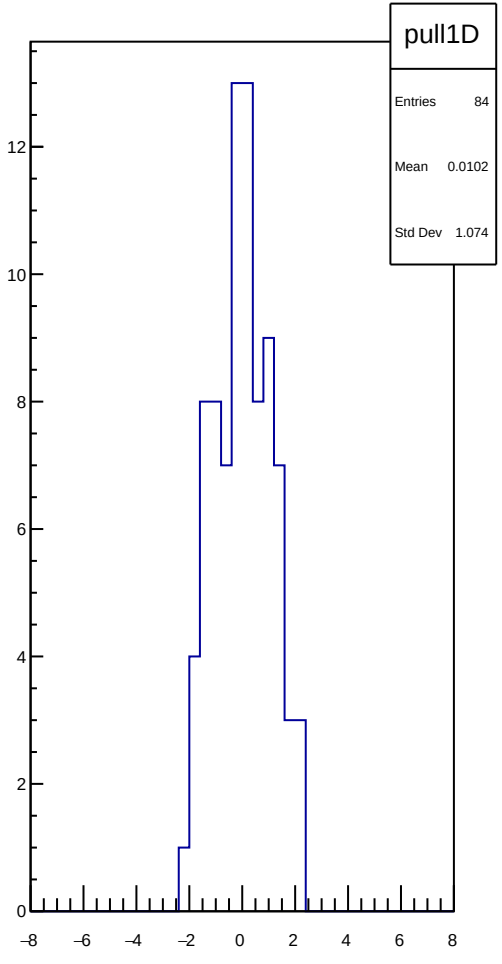

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.21 / 83
p0 0.06236 ± 0.05512
pull
Entries 84
Mean 20.34
Std Dev 0
pull1D
Entries 84
Mean 0.03373
Std Dev 1.047

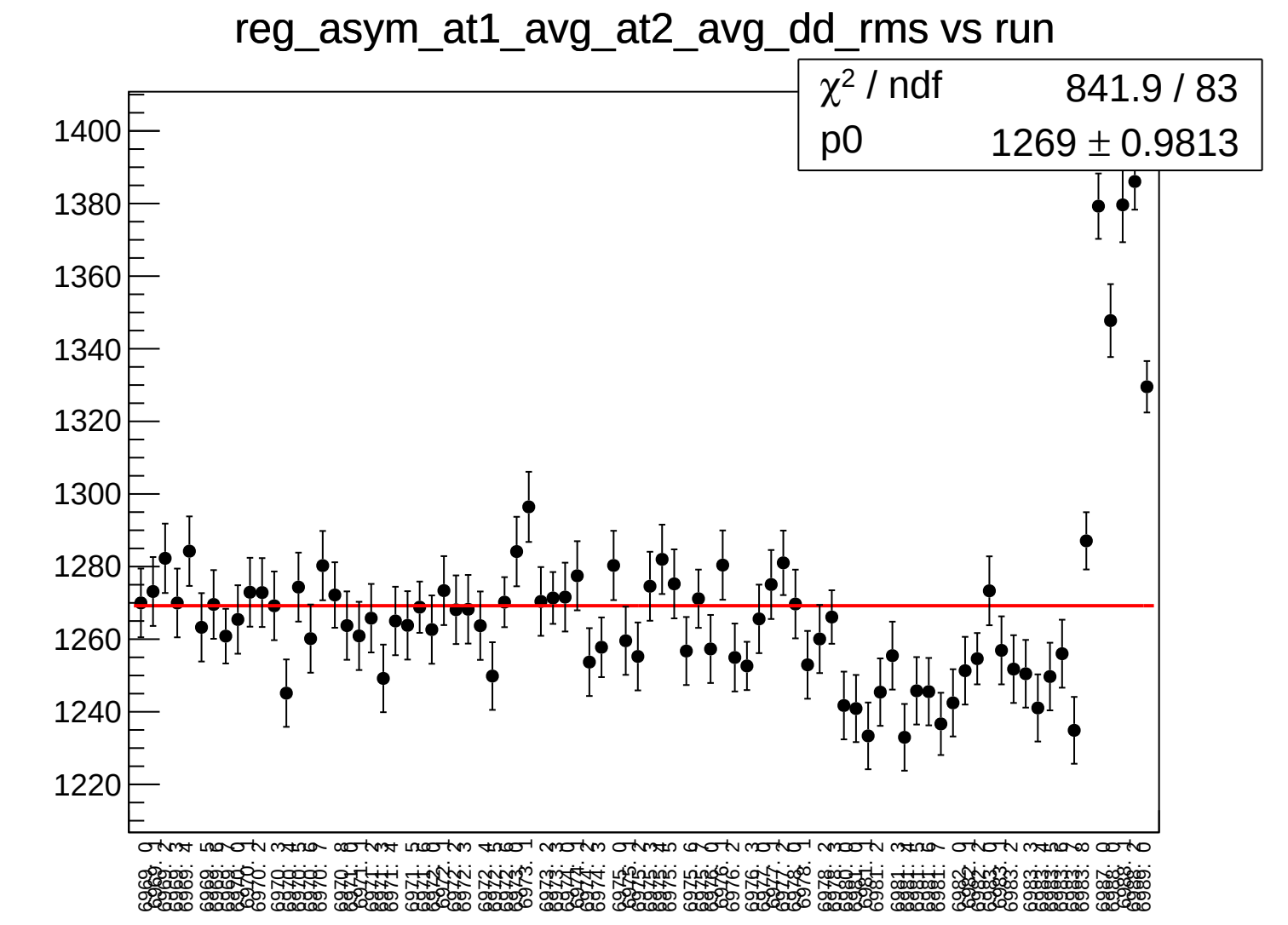

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.403e+05 / 83
p0 48.26 ± 0.03898
100
90
80
70
60
50
40
30

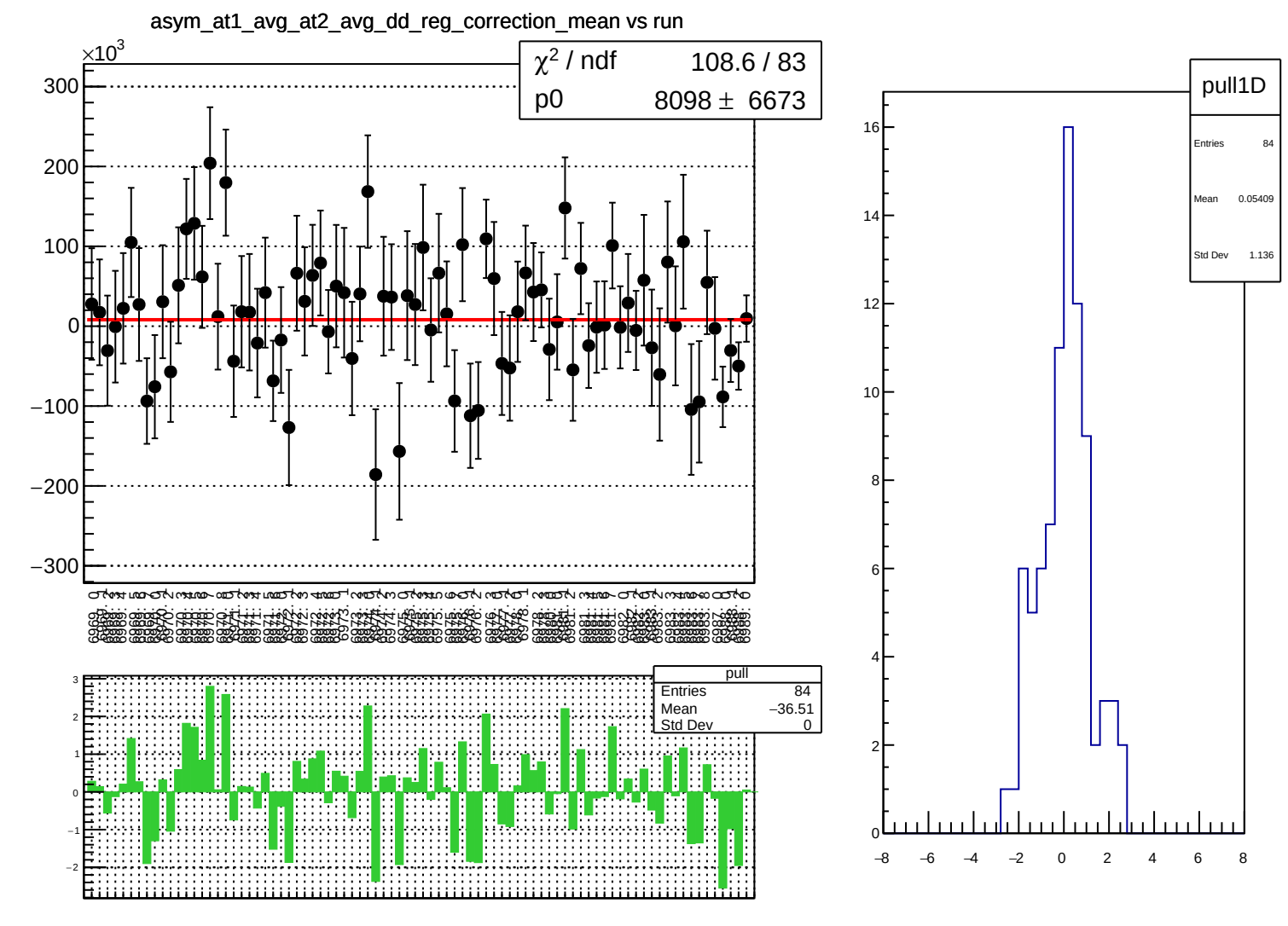

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.3 / 83
p0 1.898e−14 ± 1.53e−14
pull
Entries 84
Mean −4.527
Std Dev 0
pull1D
Entries 84
Mean 0.08082
Std Dev 1.117

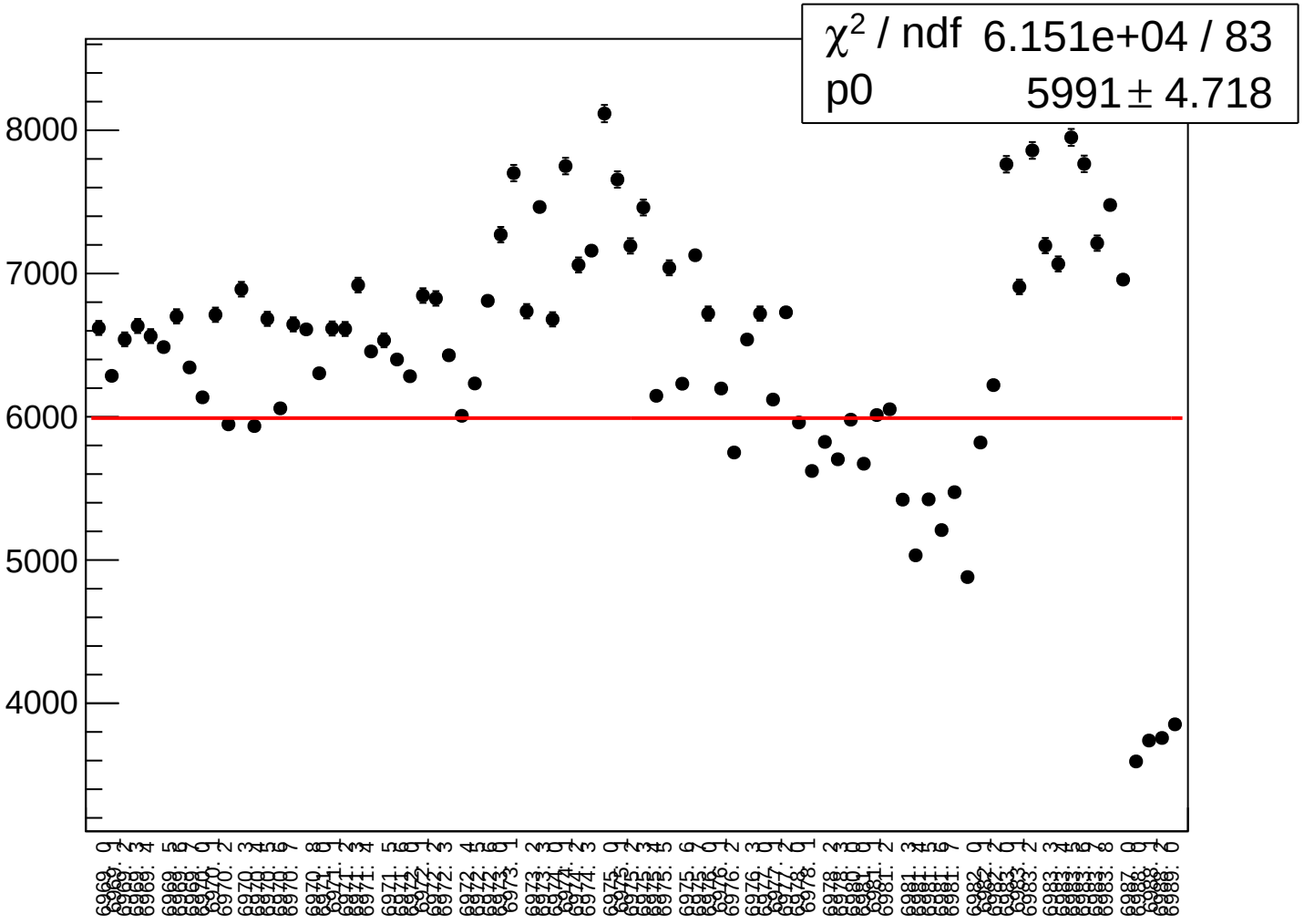

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.139e+05 / 83
p0 1.06e−11 ± 1.082e−14
0.1
0.08
0.06
0.04
0.02

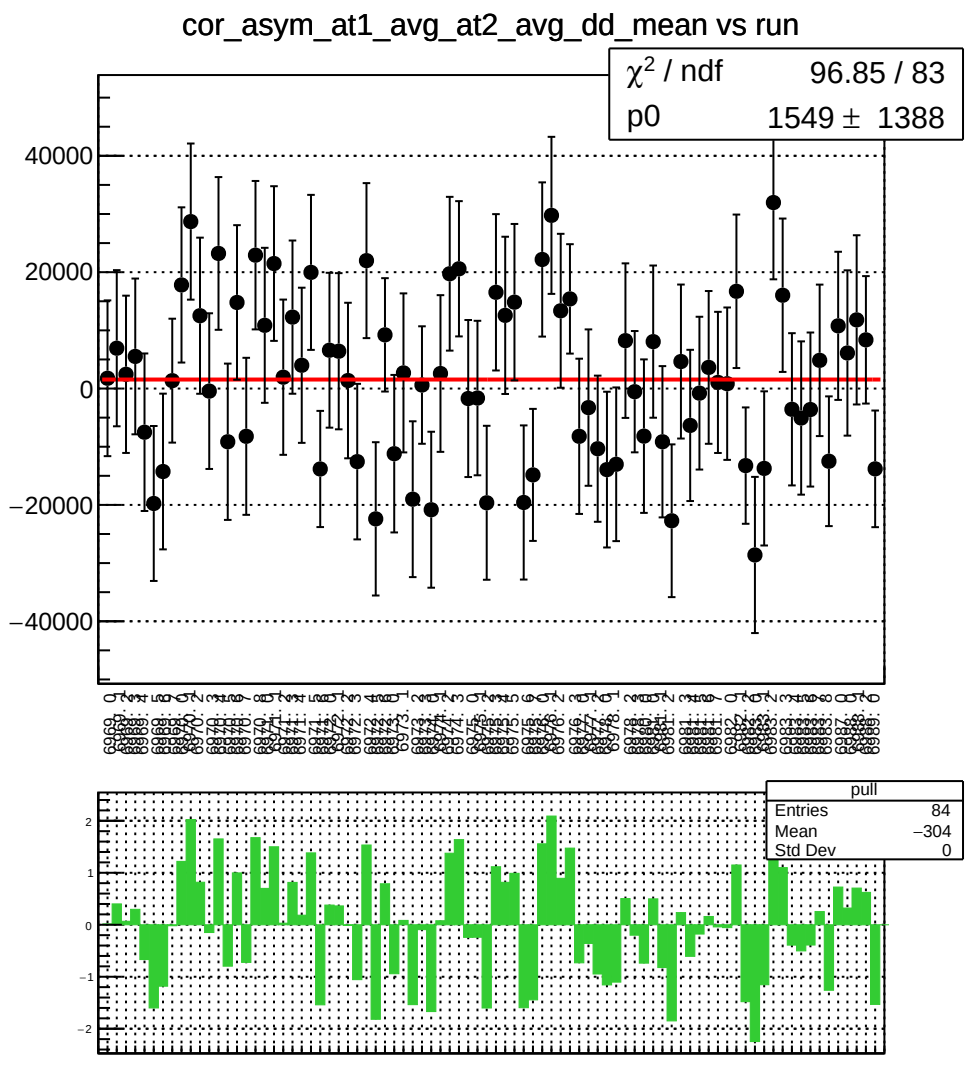

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 96.84 / 83
p0 1549 ± 1388
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −304
Std Dev 0
2
1
0
−1
−2

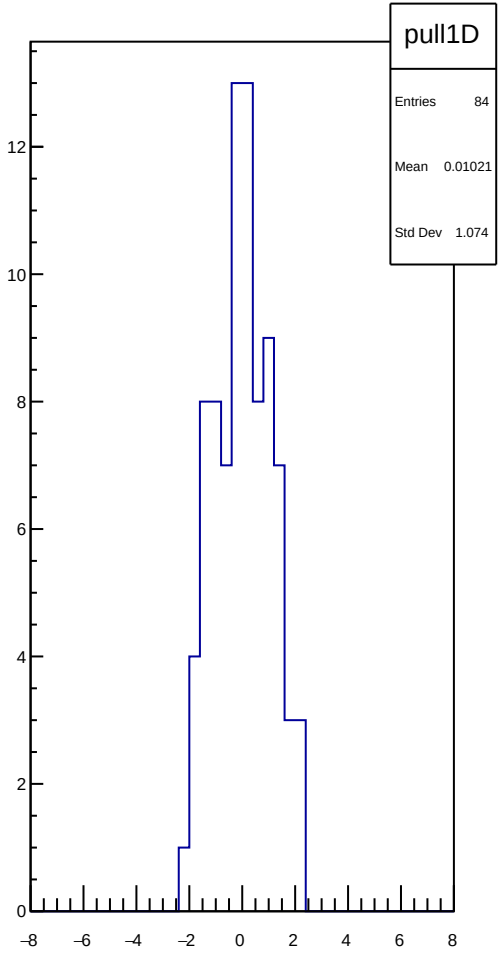

pull1D
Entries 84
Mean 0.0102
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

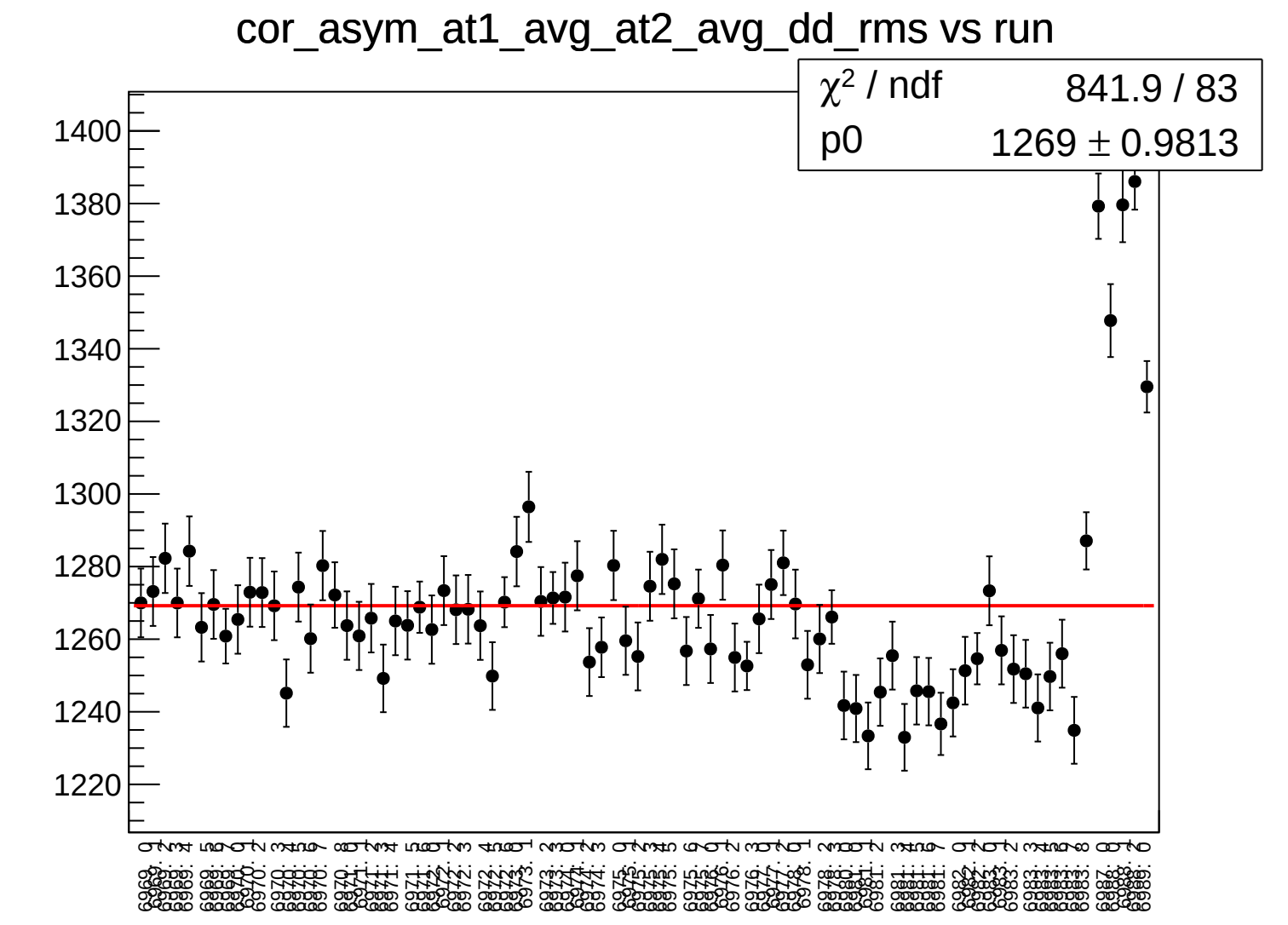

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 841.9 / 83
p0 1269 ± 0.9813
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

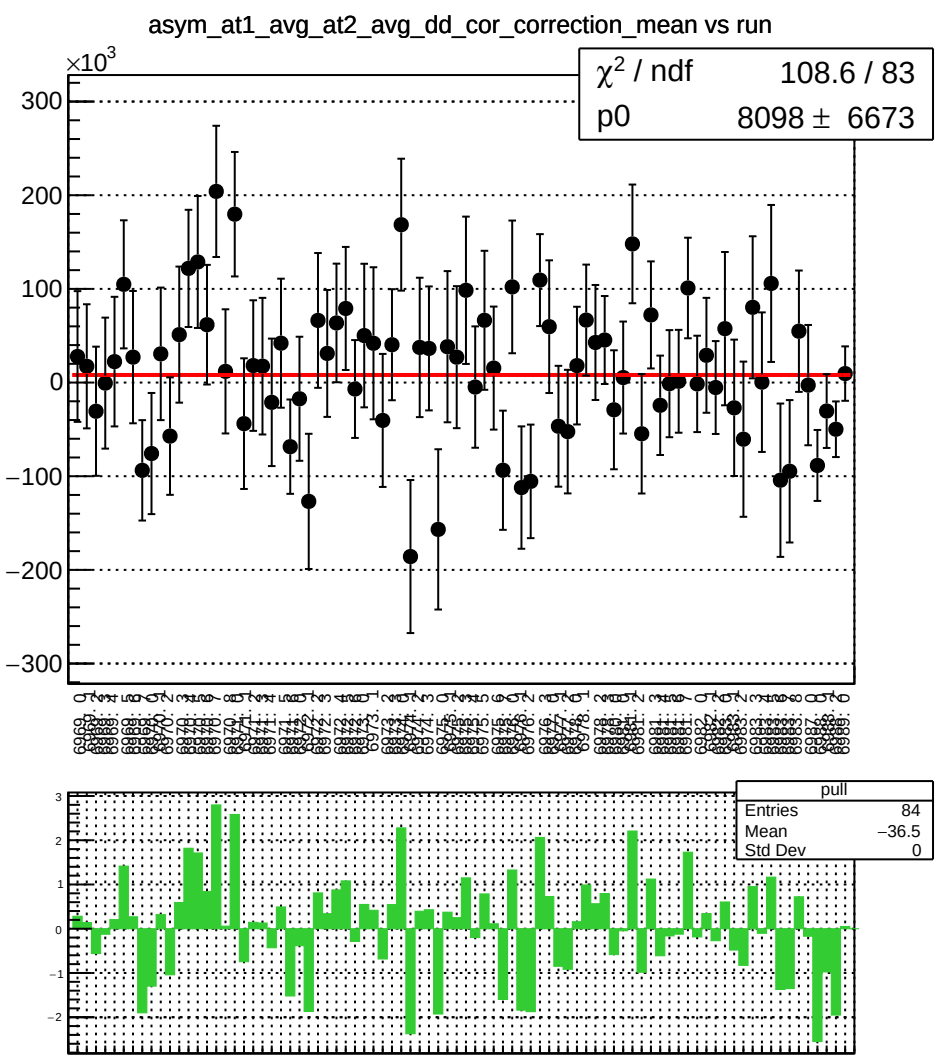

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 108.6 / 83
p0 8098 ± 6673
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −36.51
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.05409
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

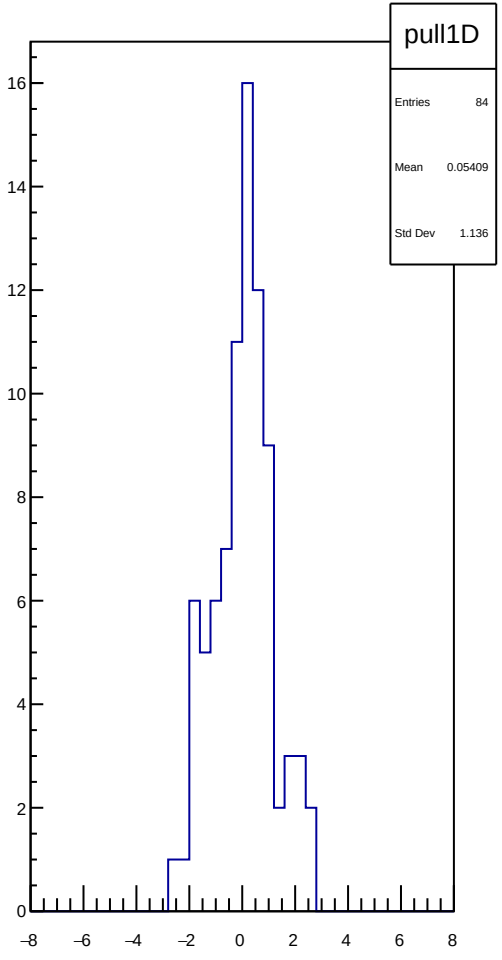

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 6.151e+04 / 83
p0 5991 ± 4.718
8000
7000
6000
5000
4000

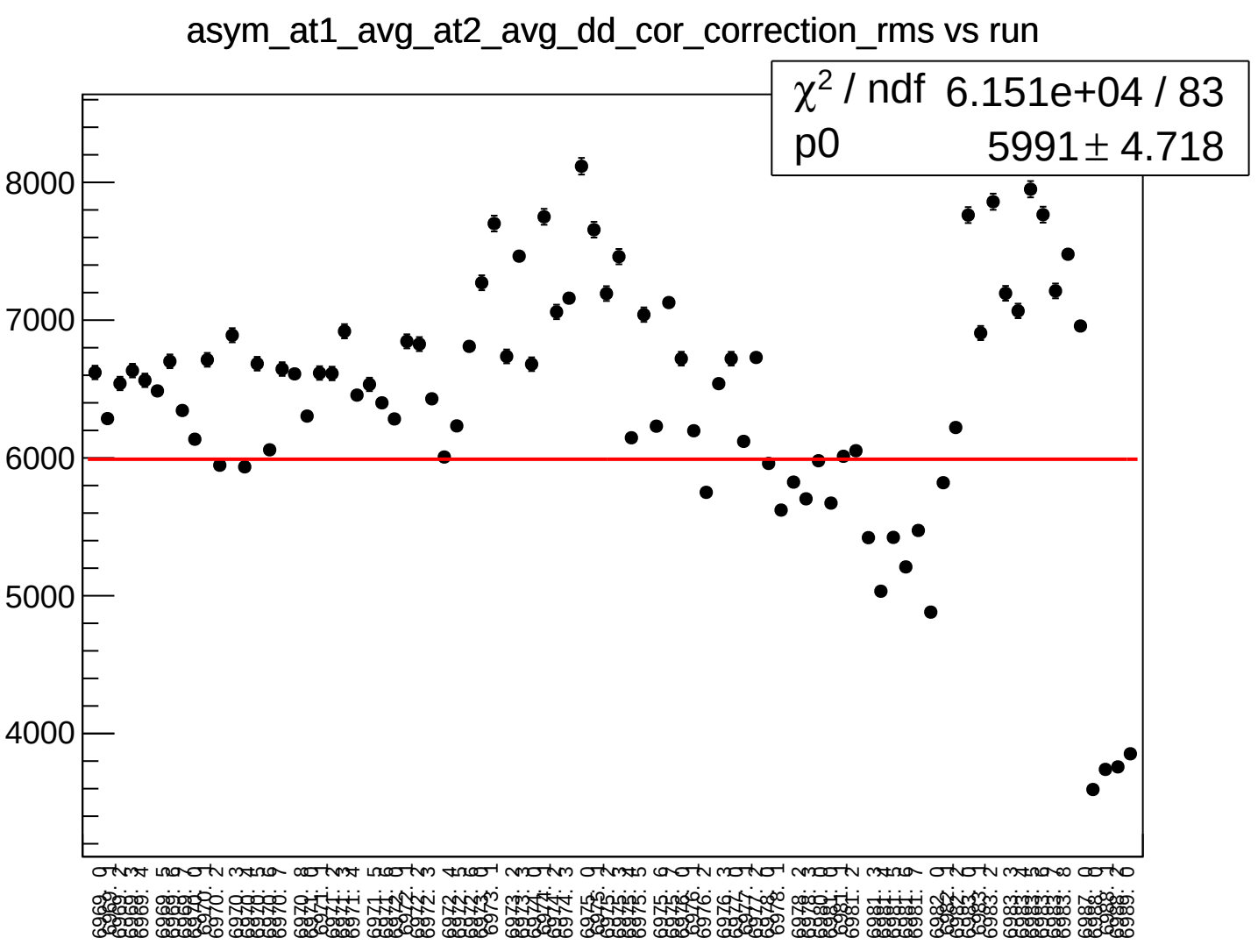

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 96.85 / 83
p0 1549 ± 1388
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −304
Std Dev 0
2
1
0
−1
−2

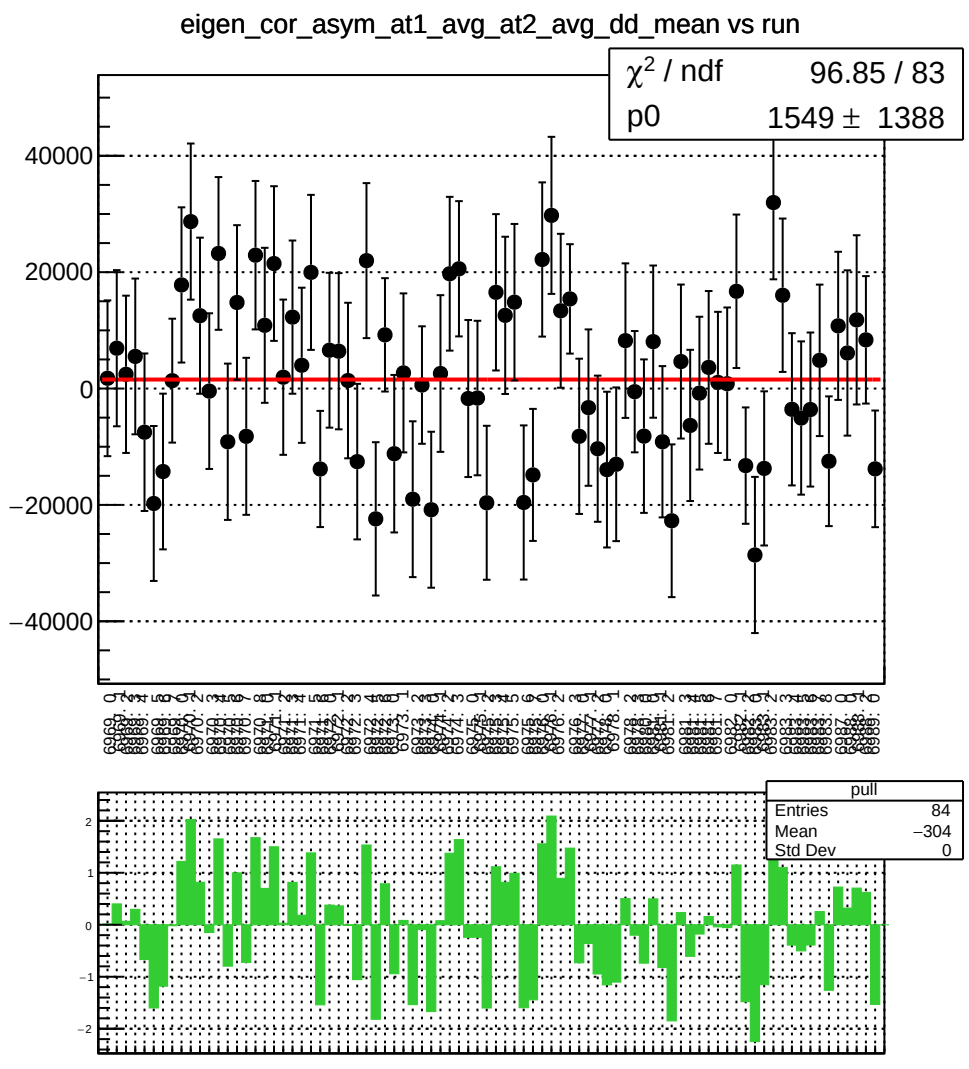

pull1D
Entries 84
Mean 0.01021
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

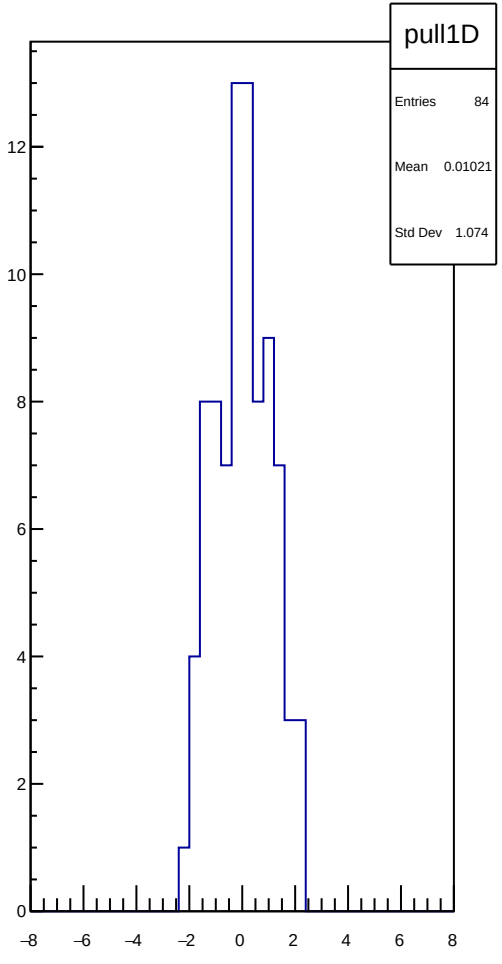

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 841.9 / 83
p0 1269 ± 0.9813
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

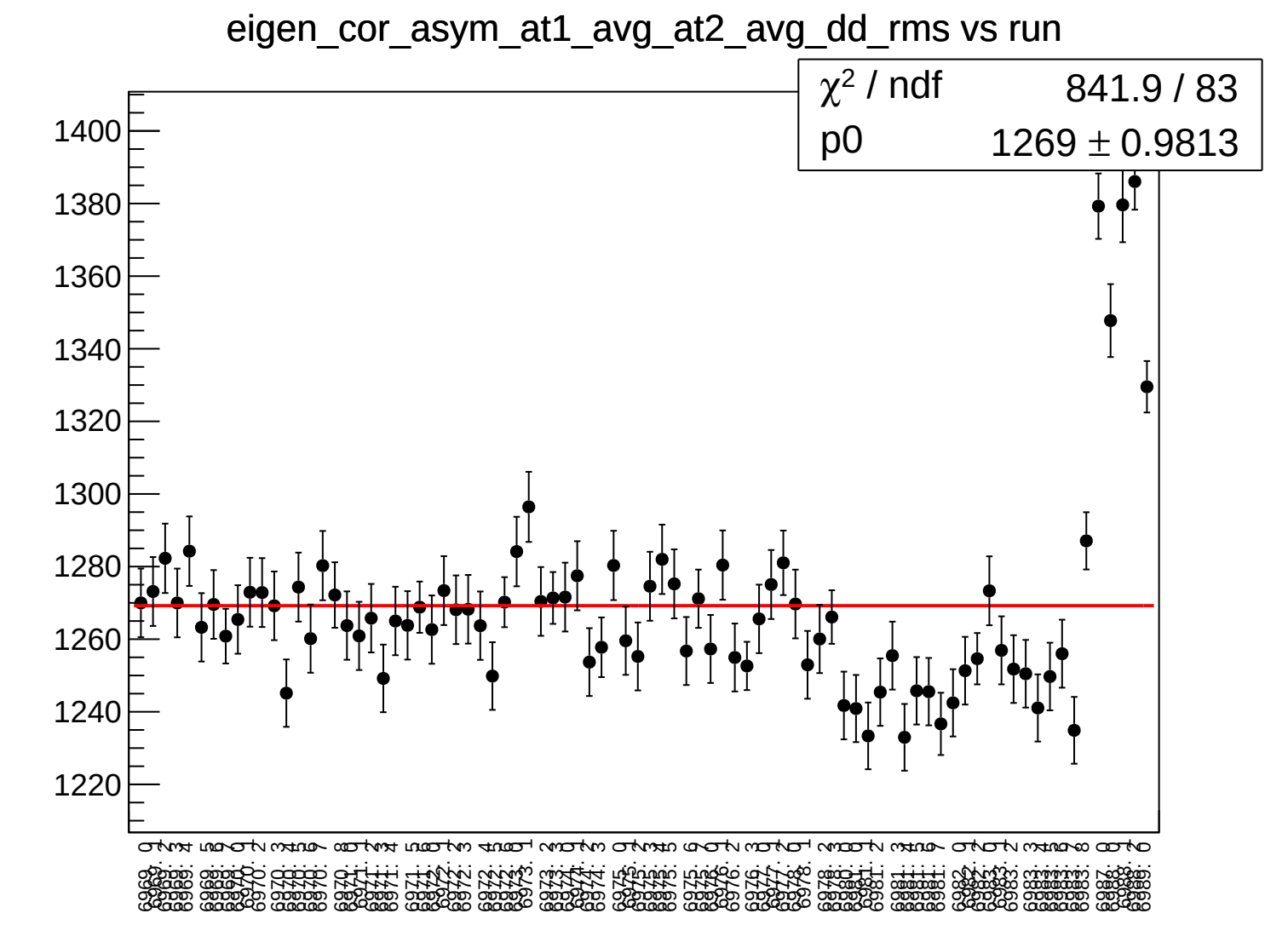

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 108.6 / 83
p0 8098 ± 6673
pull
Entries 84
Mean −36.5
Std Dev 0

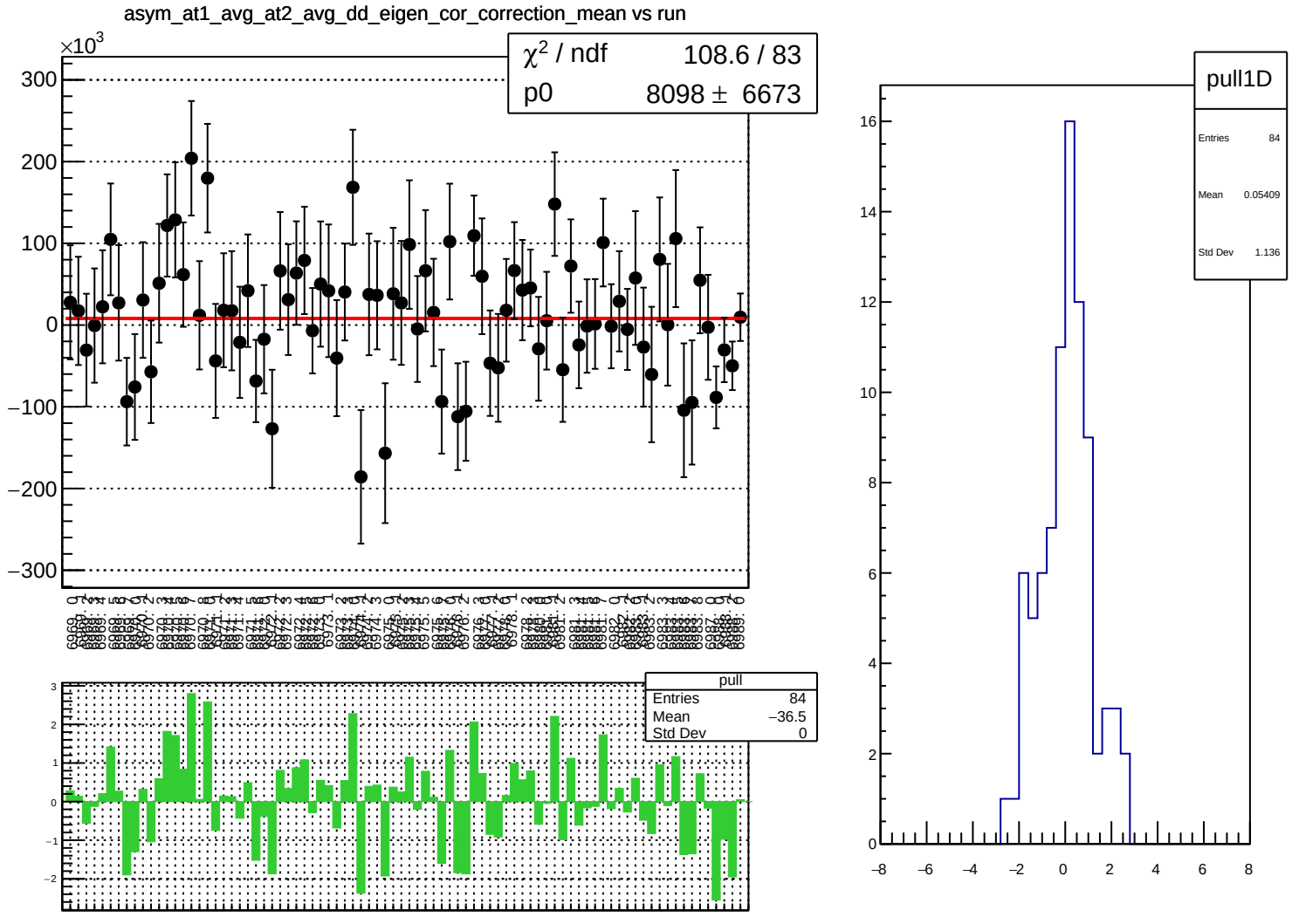

pull1D
Entries 84
Mean 0.05409
Std Dev 1.136

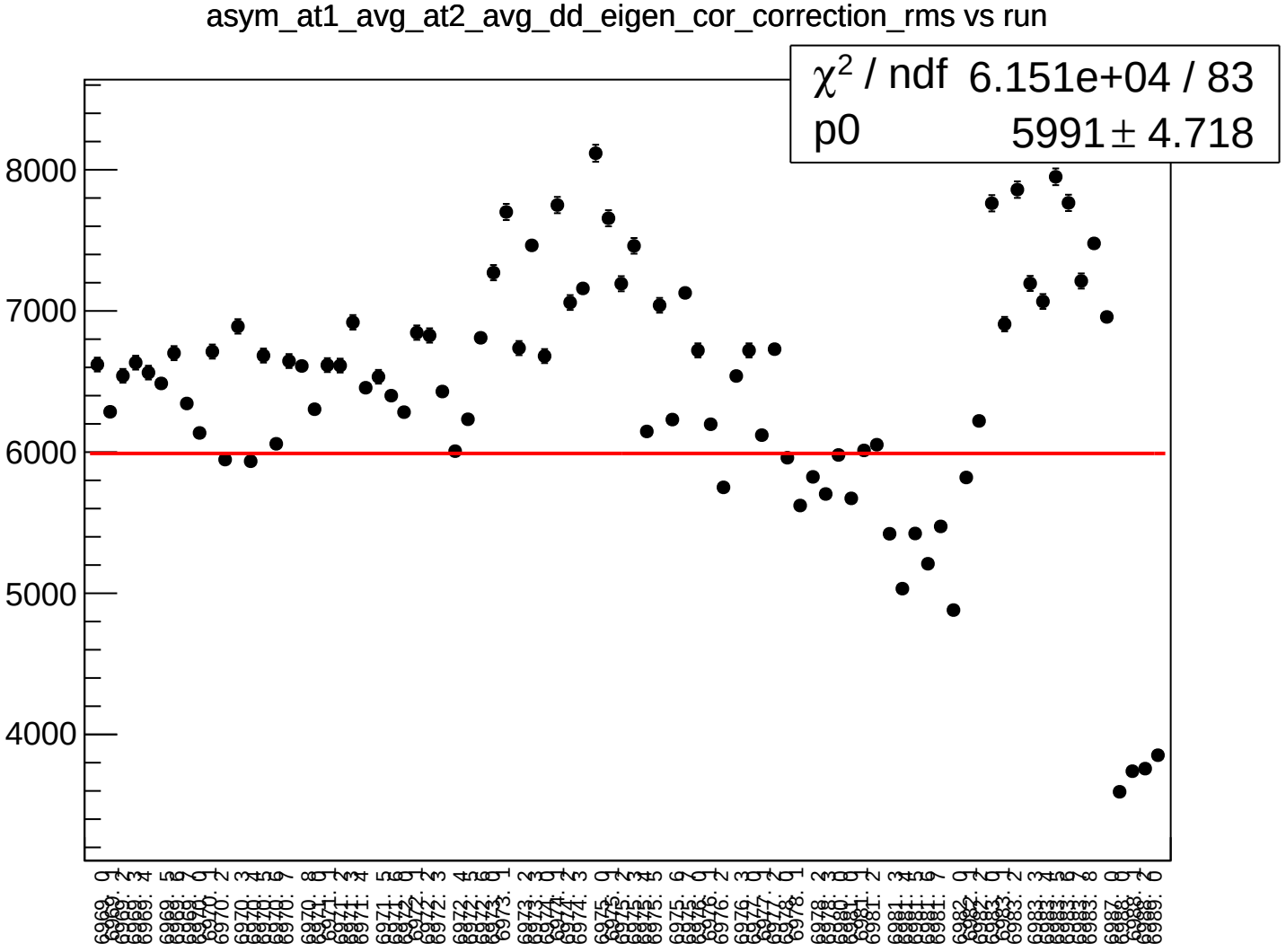

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 6.151e+04 / 83
p0 5991 ± 4.718
8000
7000
6000
5000
4000

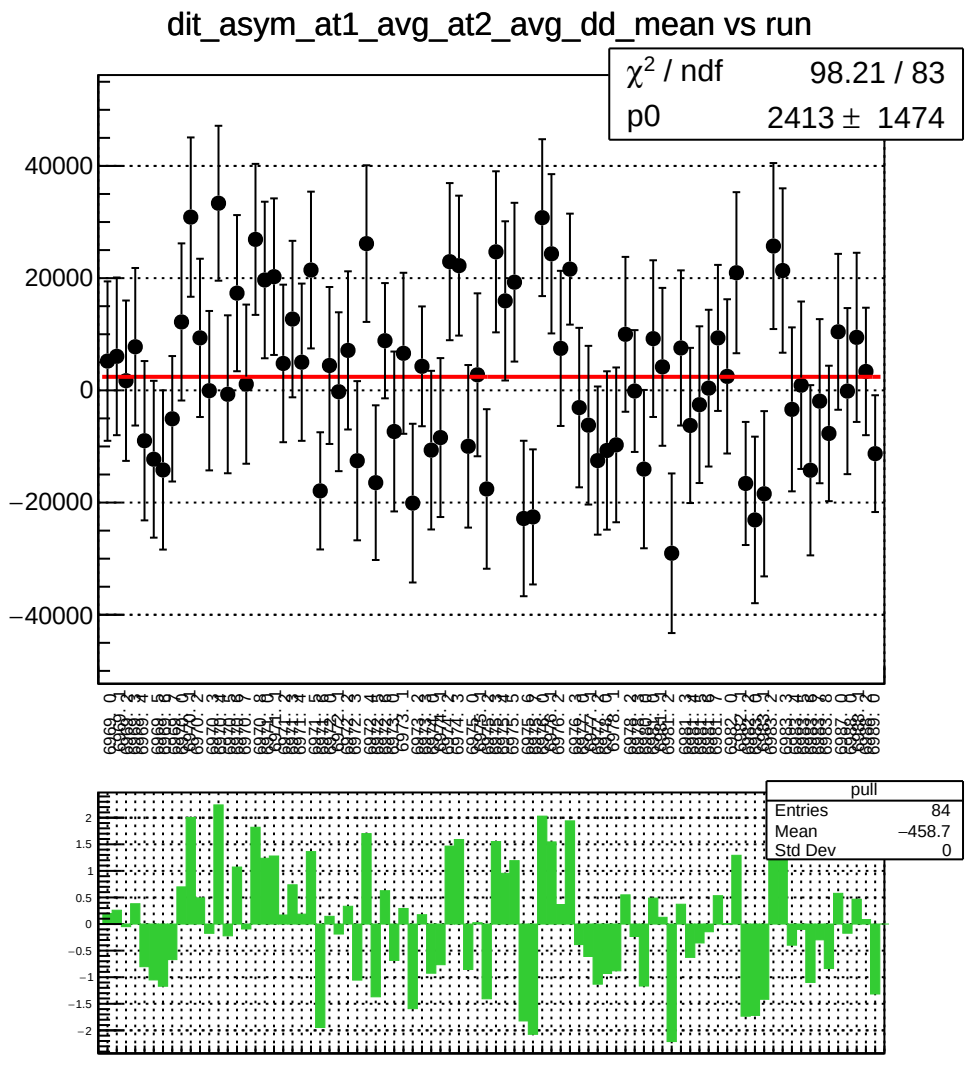

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 96.85 / 83
p0 1549 ± 1388
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −304
Std Dev 0
2
1
0
−1
−2

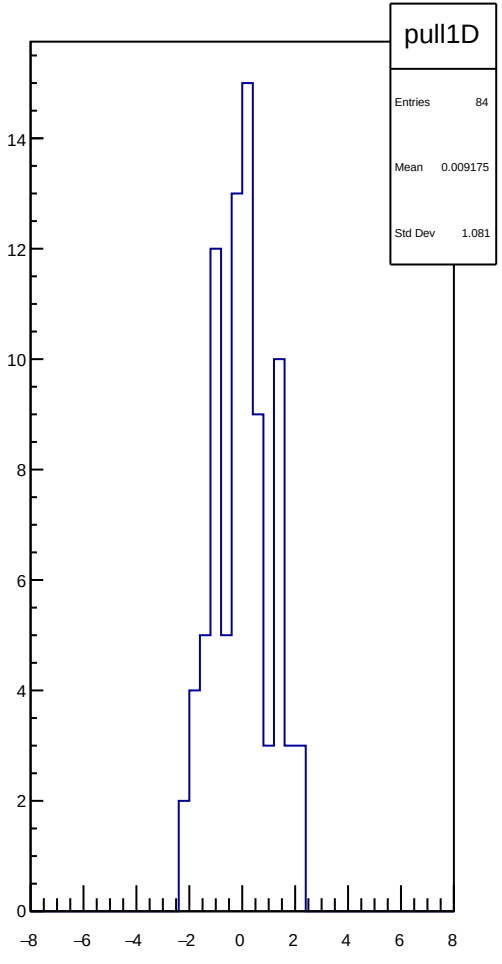

pull1D
Entries 84
Mean 0.01021
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

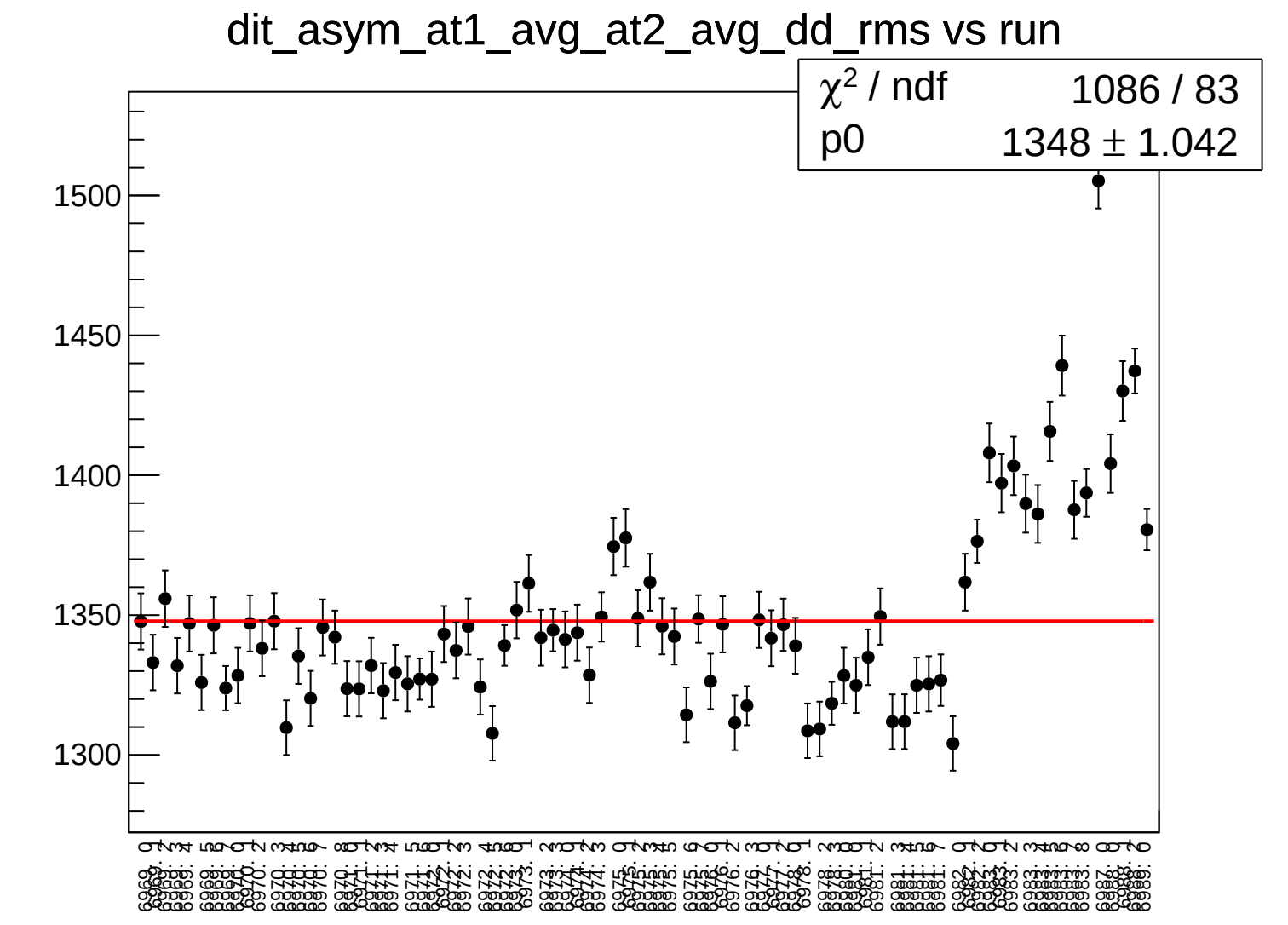

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 841.9 / 83
p0 1269 ± 0.9813
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

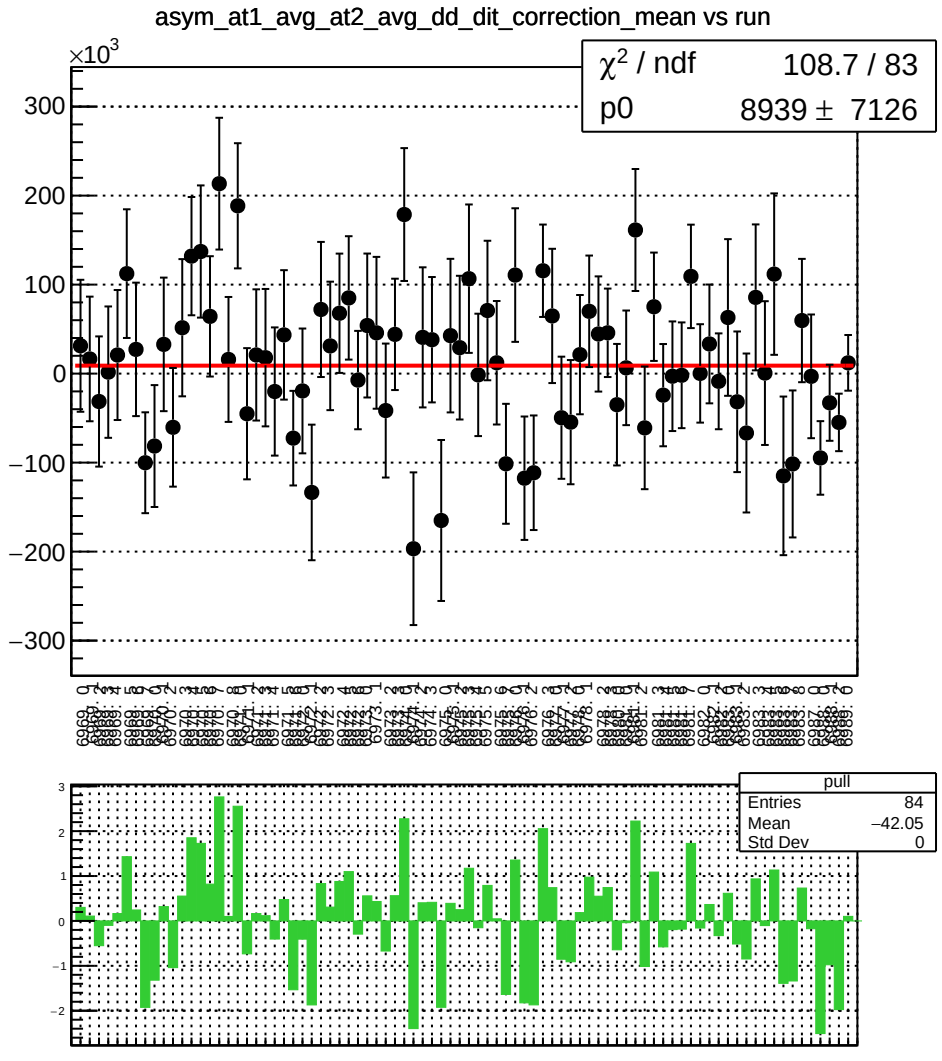

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108.6 / 83
p0 8098 ± 6673
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −36.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.05409
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

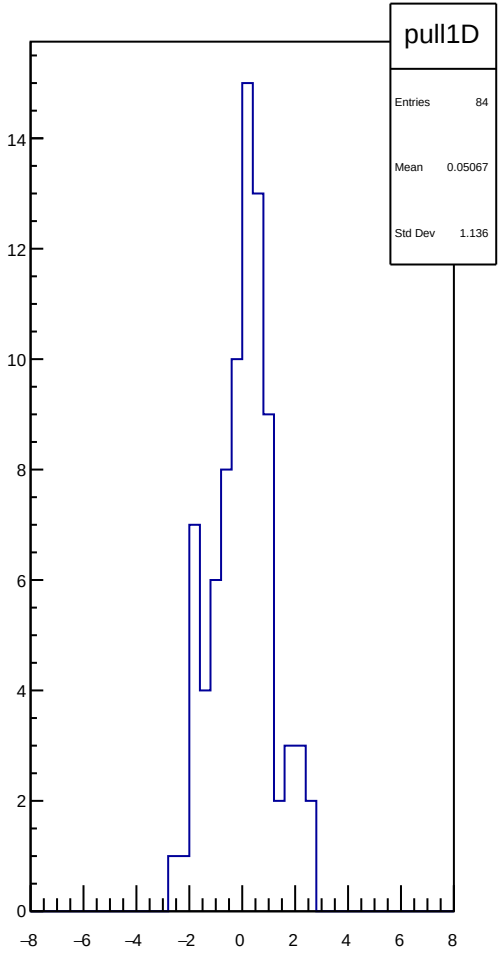

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.151e+04 / 83
p0 5991 ± 4.718
8000
7000
6000
5000
4000

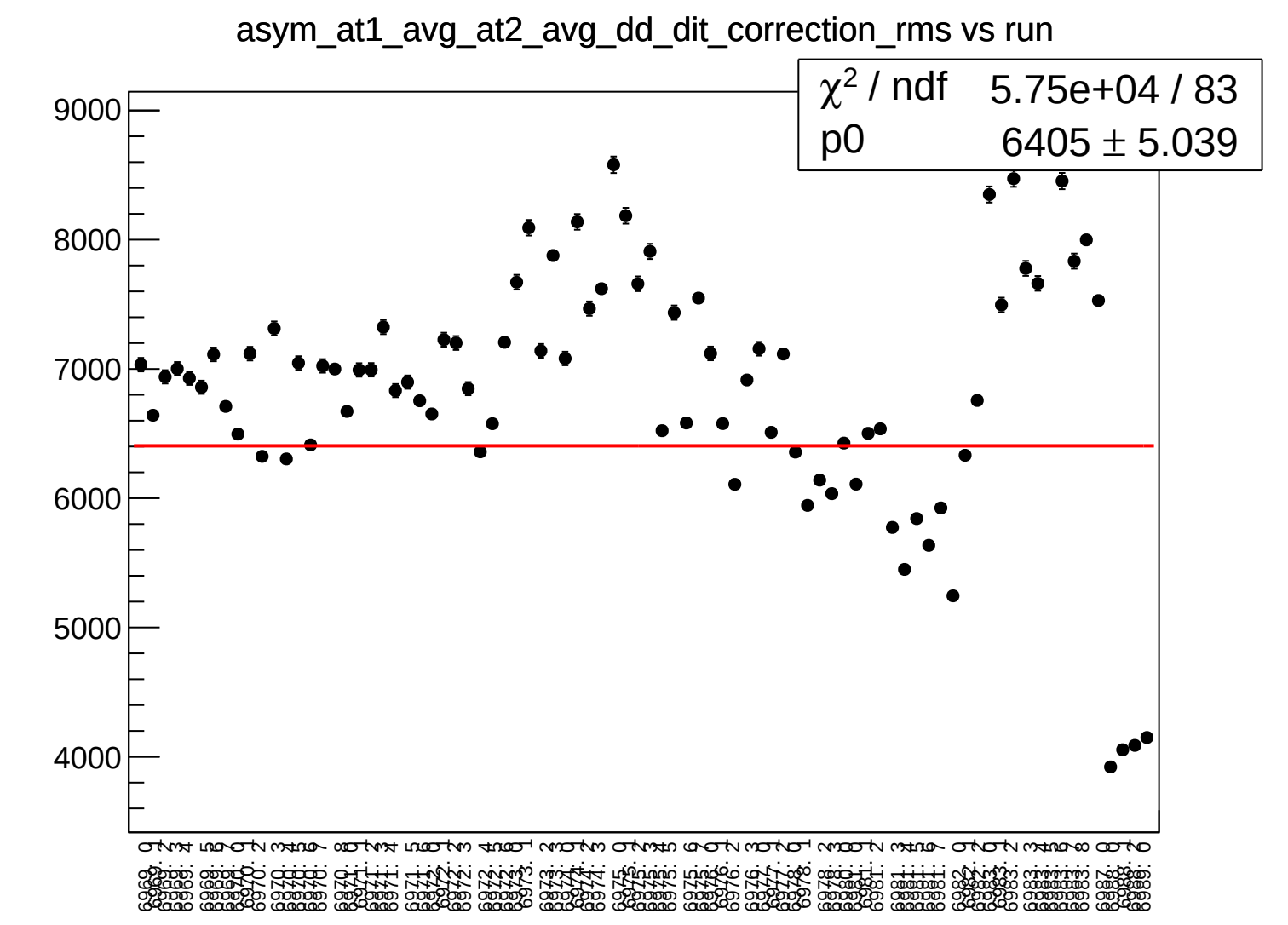

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 98.21 / 83
p0 2413 ± 1474
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −458.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

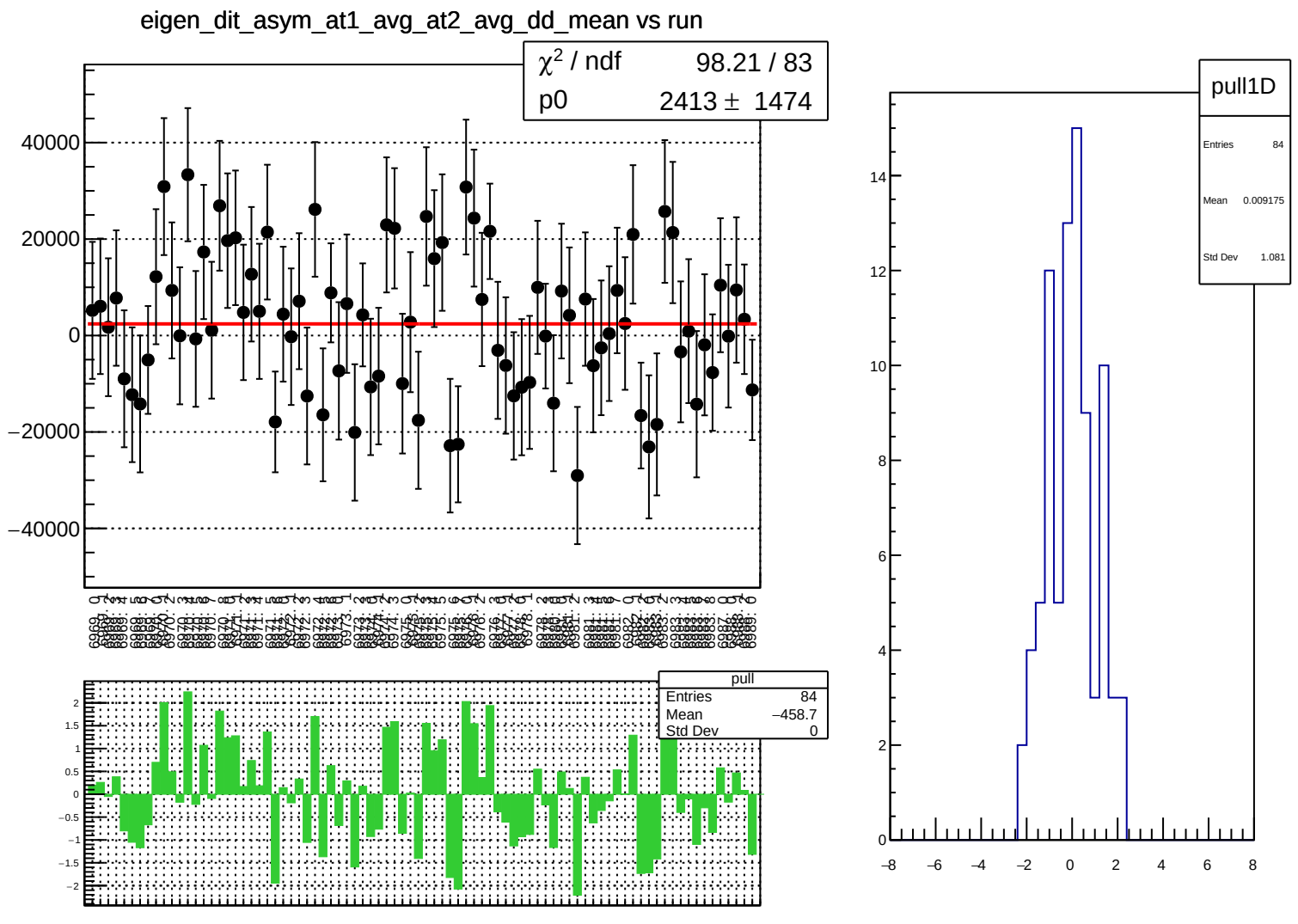

pull1D
Entries 84
Mean 0.009175
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

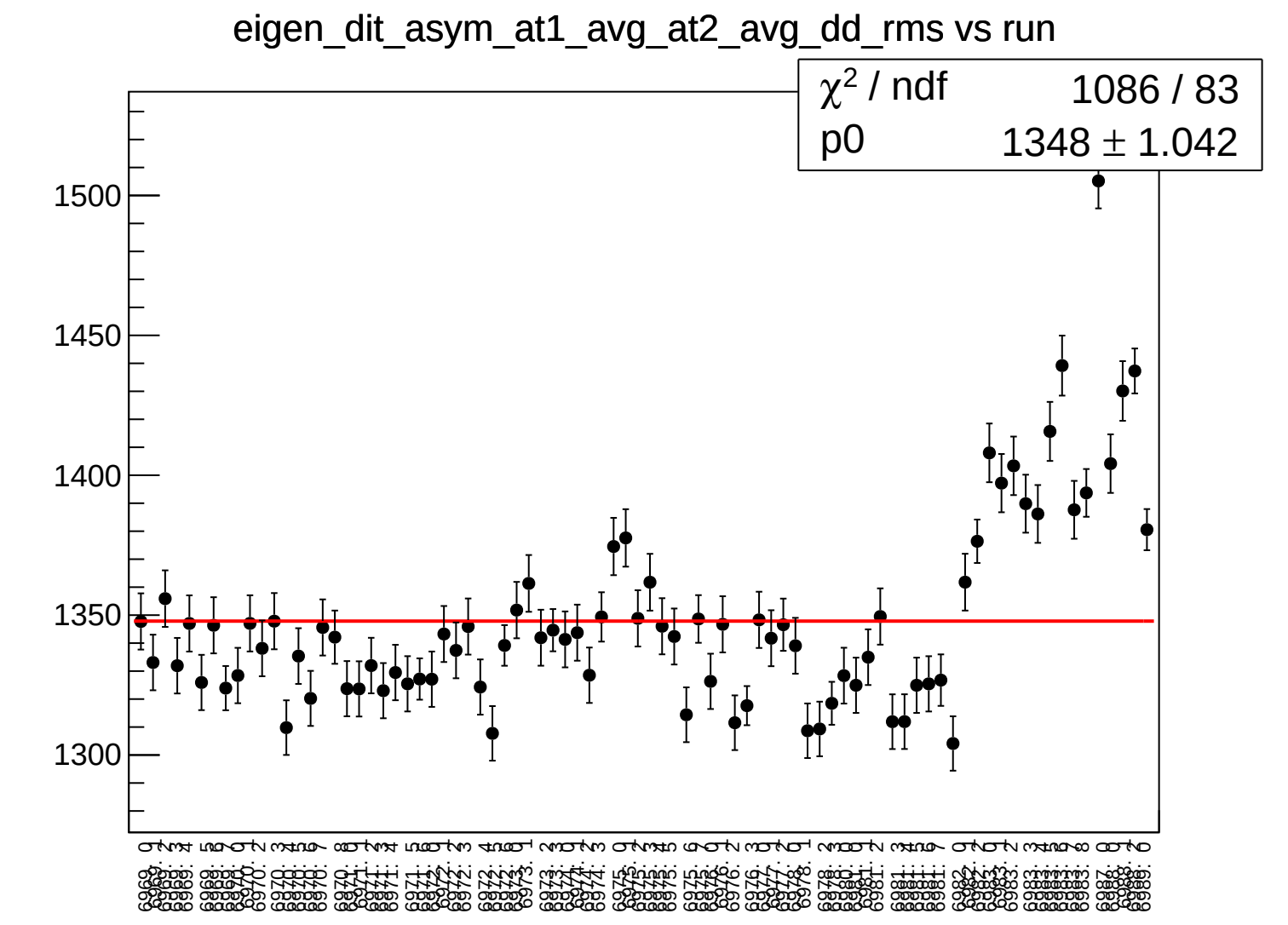

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1086 / 83
p0 1348 ± 1.042
1500
1450
1400
1350
1300

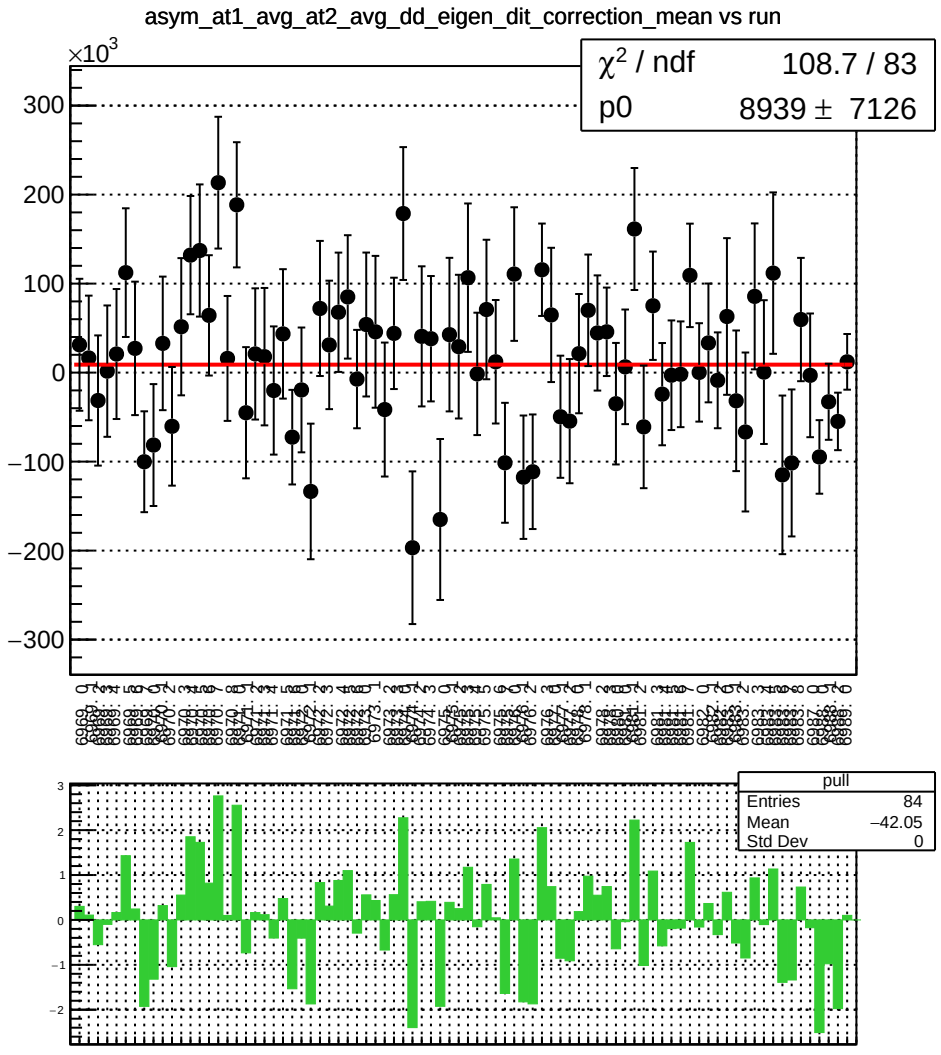

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 108.7 / 83
p0 8939 ± 7126
pull
Entries 84
Mean −42.05
Std Dev 0

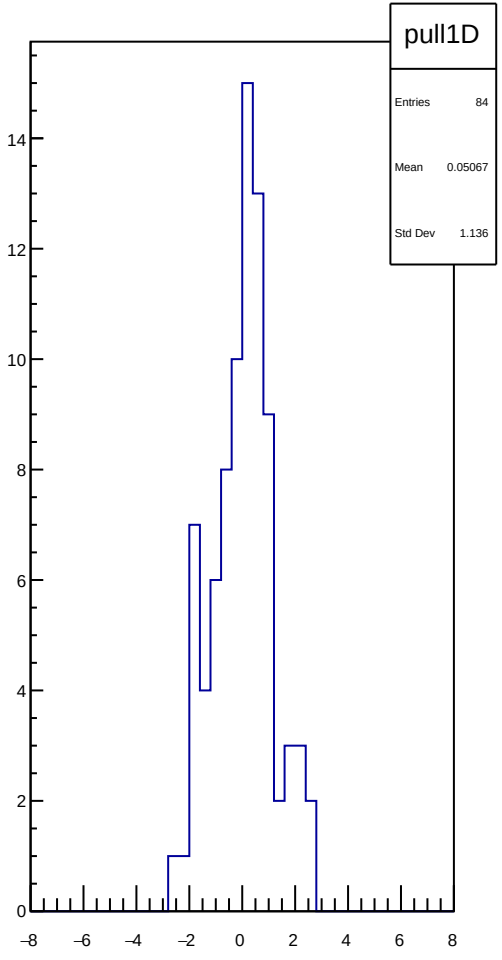

pull1D
Entries 84
Mean 0.05067
Std Dev 1.136

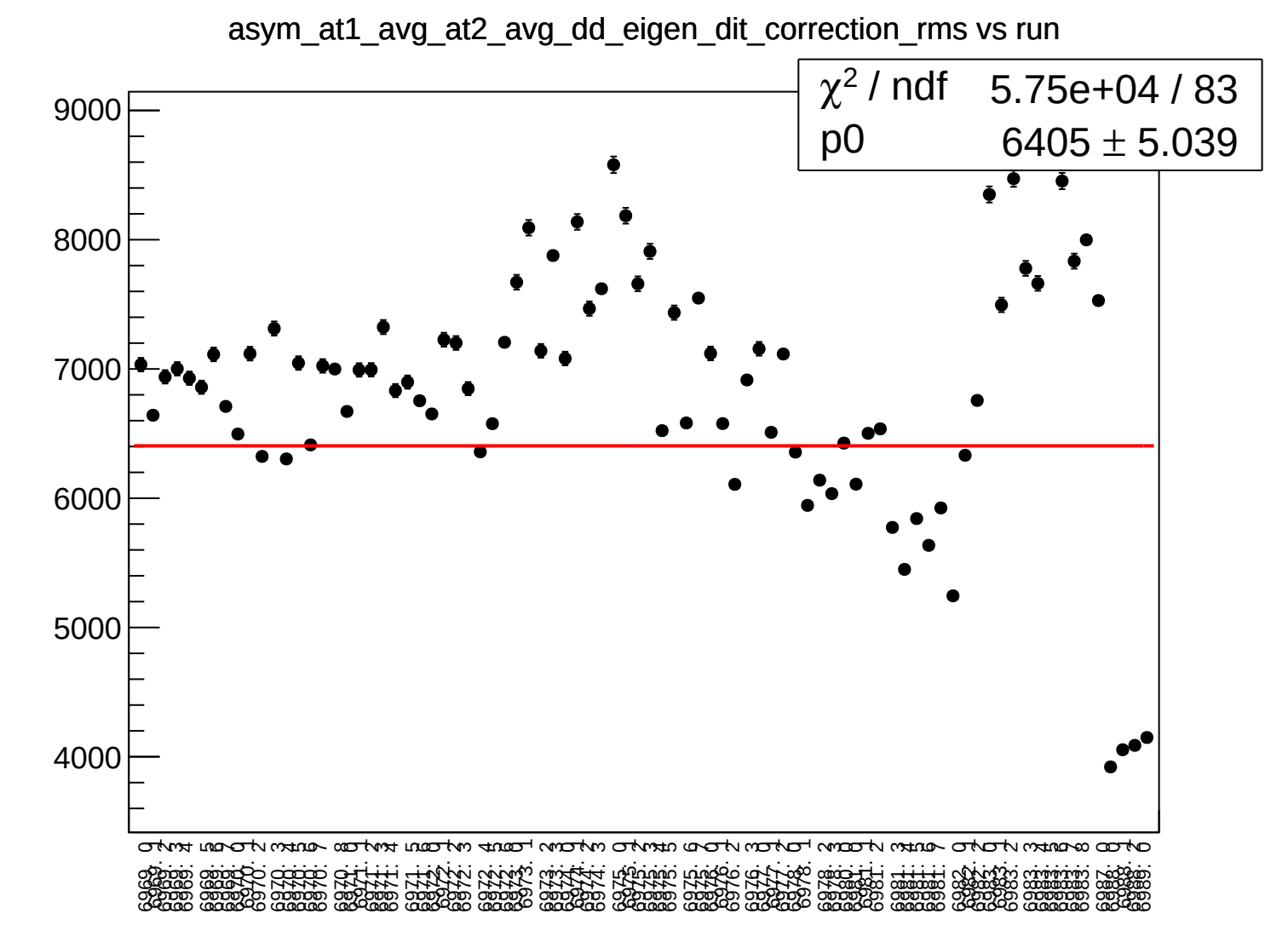

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 5.75e+04 / 83
p0 6405 ± 5.039
9000
8000
7000
6000
5000
4000

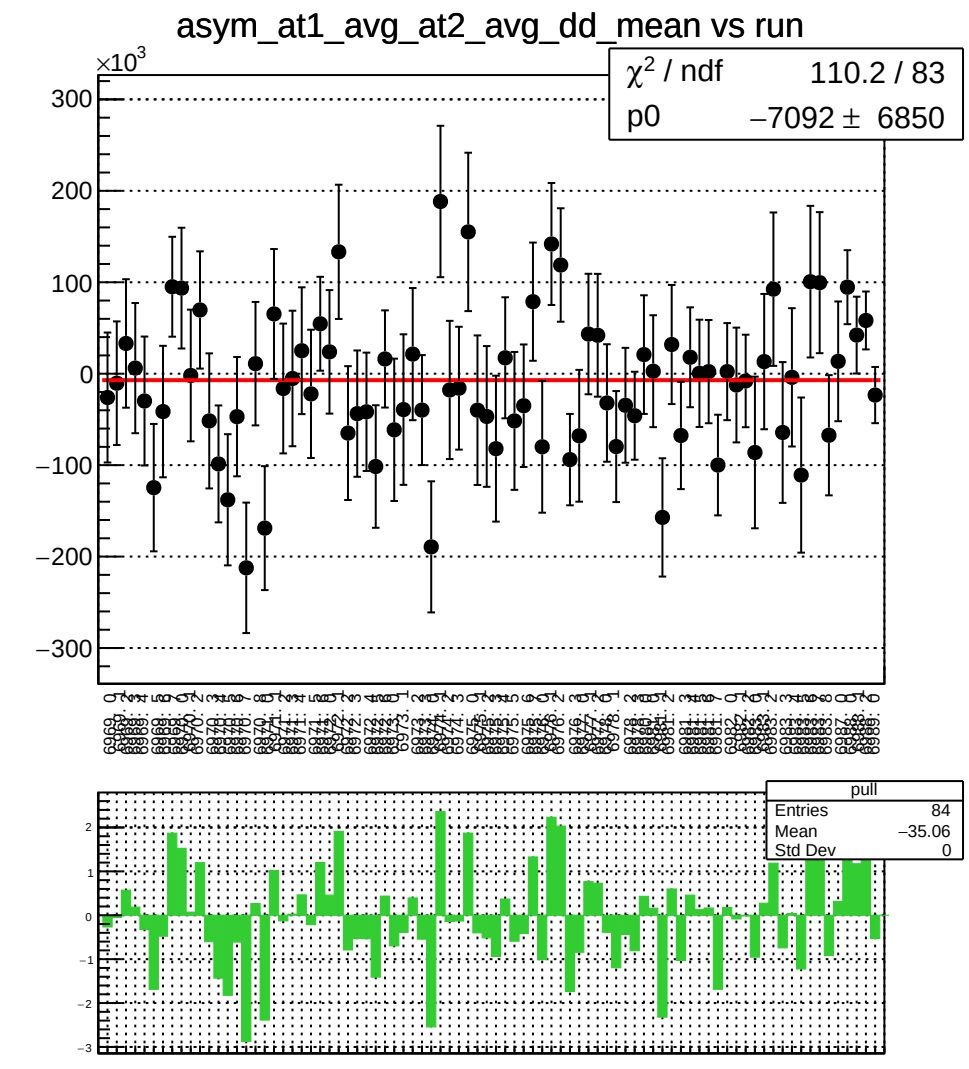

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 98.21 / 83
p0 2413 ± 1474
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −458.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.009175
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

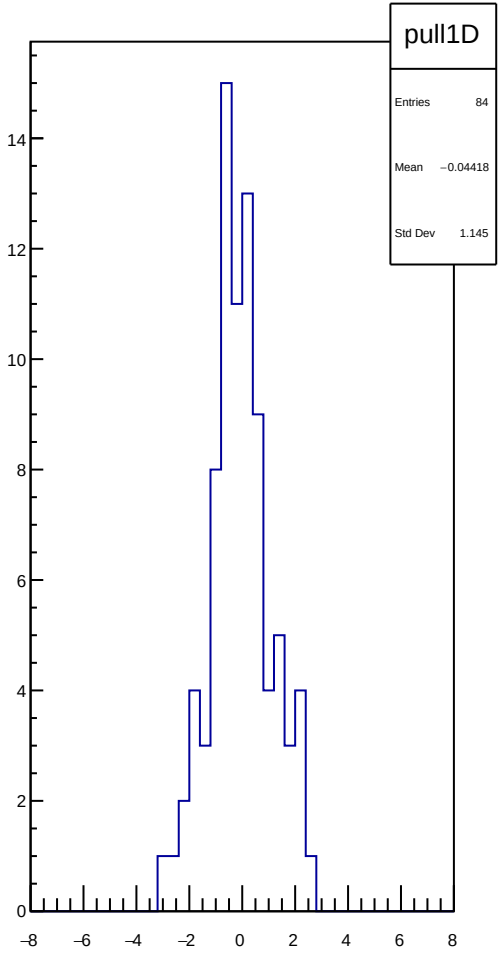

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1086 / 83
p0 1348 ± 1.042
1500
1450
1400
1350
1300

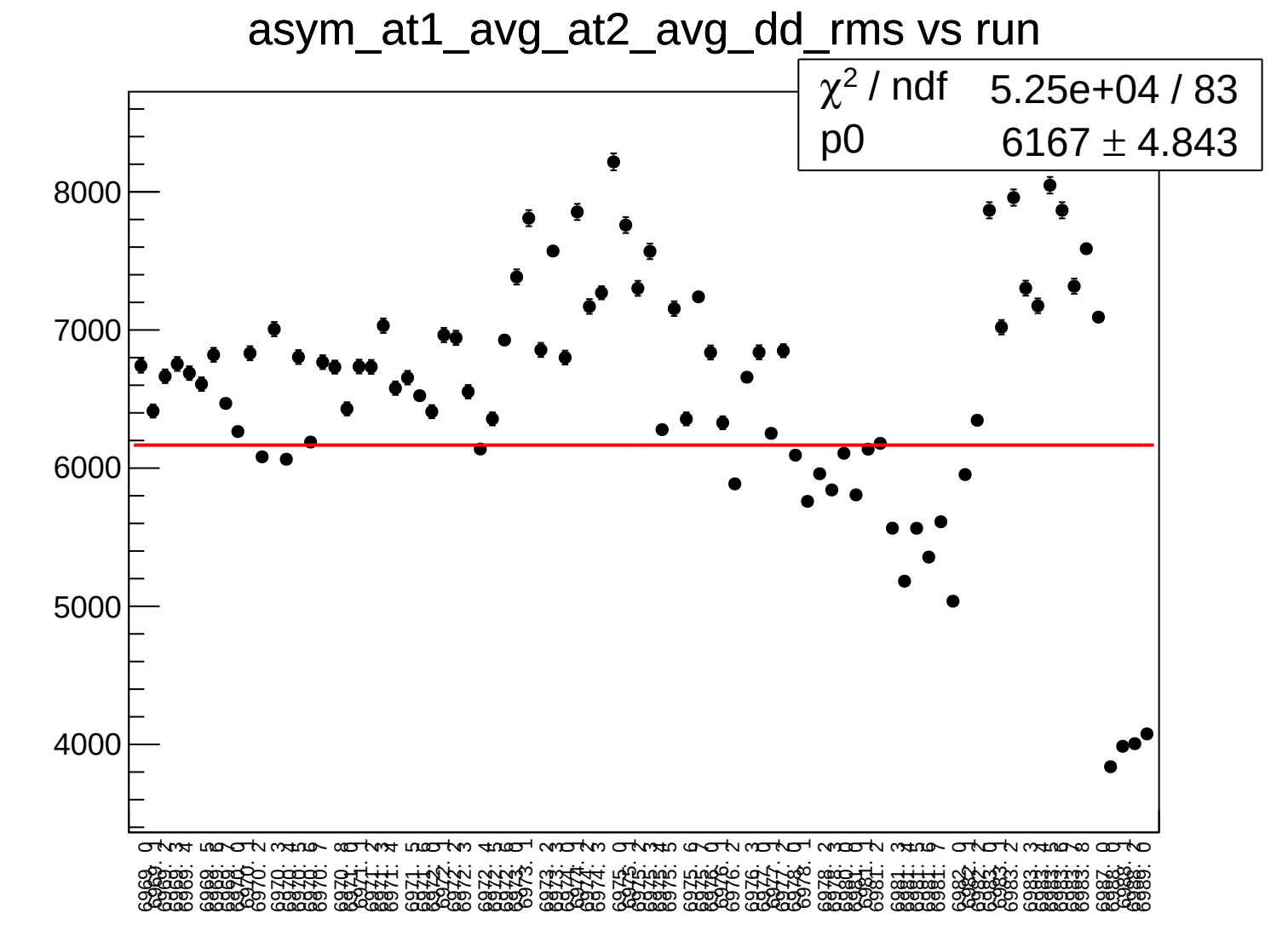

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 108.7 / 83
p0 8939 ± 7126
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −42.05
Std Dev 0
3
2
1
0
−1
−2

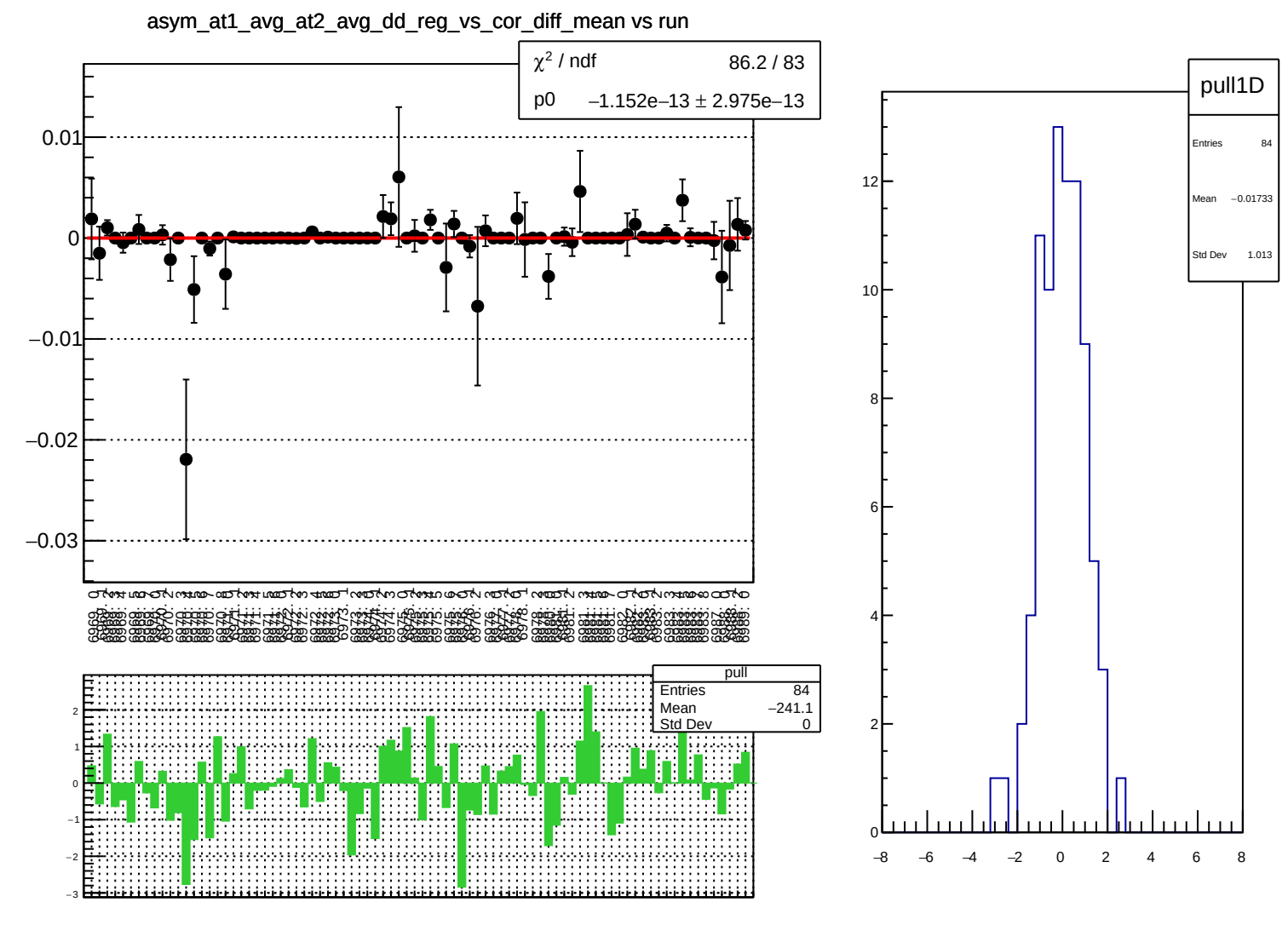

pull1D
Entries 84
Mean 0.05067
Std Dev 1.136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

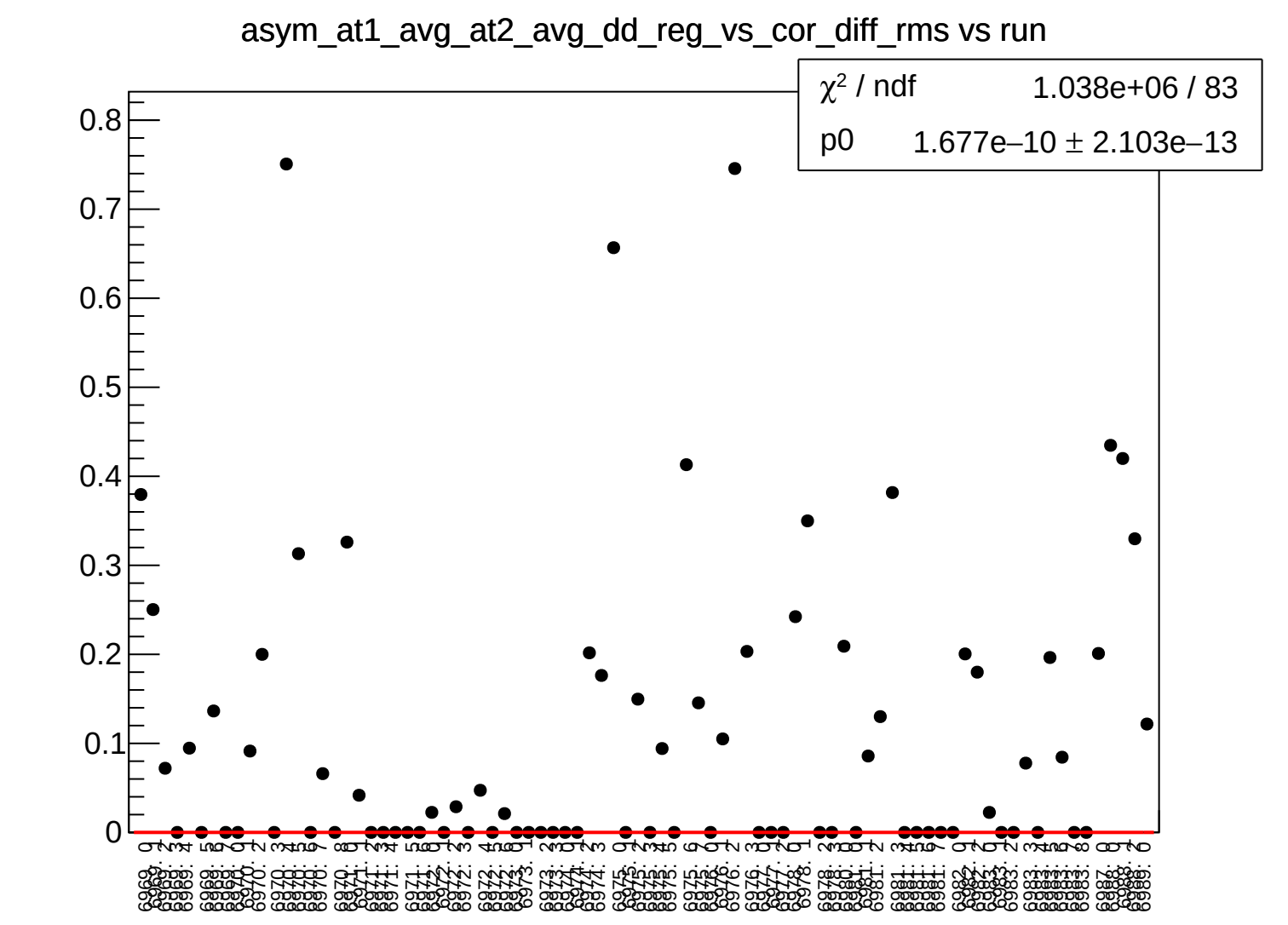

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.75e+04 / 83
p0 6405 ± 5.039
9000
8000
7000
6000
5000
4000


asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 110.2 / 83
p0 −7092 ± 6850
pull
Entries 84
Mean −35.06
Std Dev 0

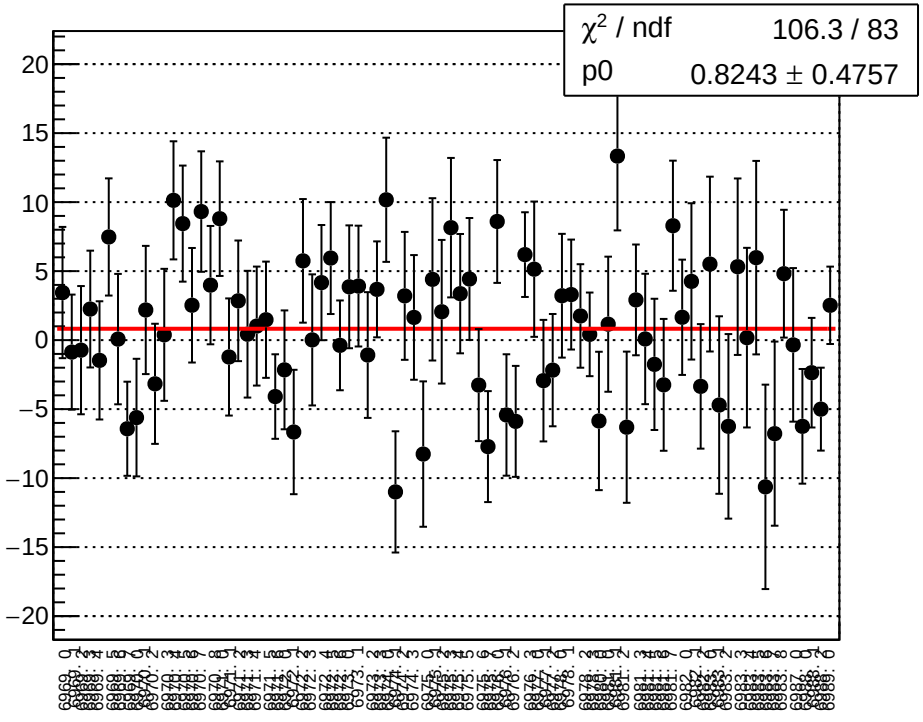

pull1D
Entries 84
Mean −0.04418
Std Dev 1.145

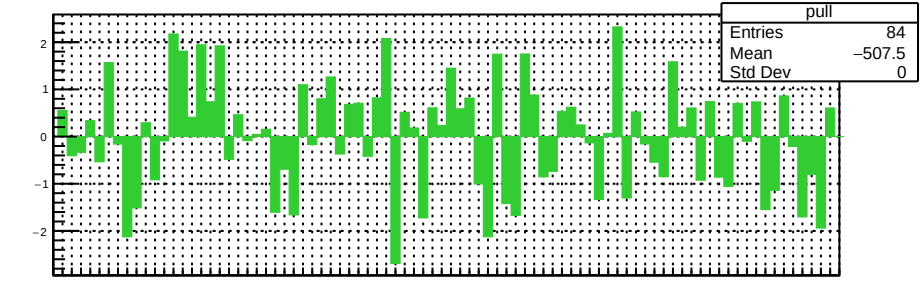

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 5.25e+04 / 83
p0 6167 ± 4.843
8000
7000
6000
5000
4000

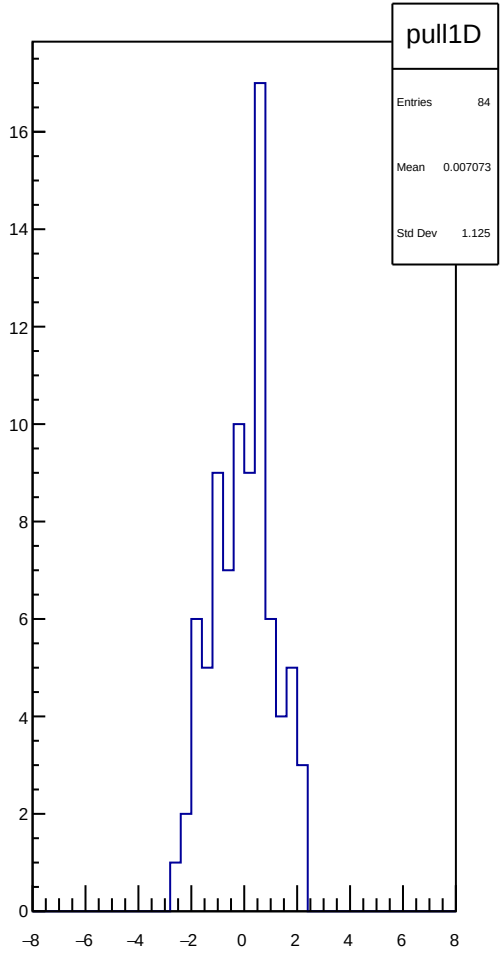

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.2 / 83
p0 −1.152e−13 ± 2.975e−13
pull
Entries 84
Mean −241.1
Std Dev 0
pull1D
Entries 84
Mean −0.01733
Std Dev 1.013

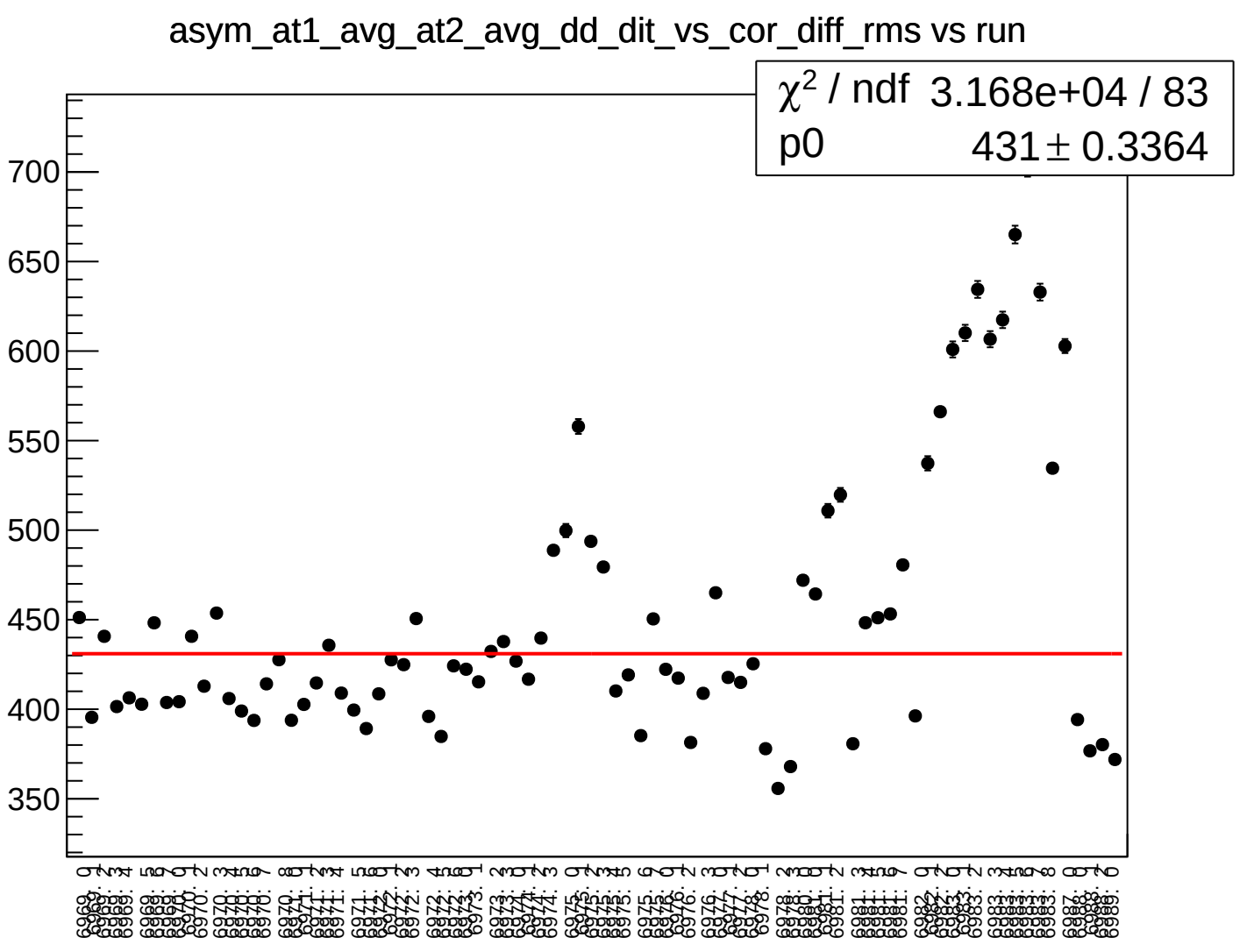

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.038e+06 / 83
p0 1.677e−10 ± 2.103e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

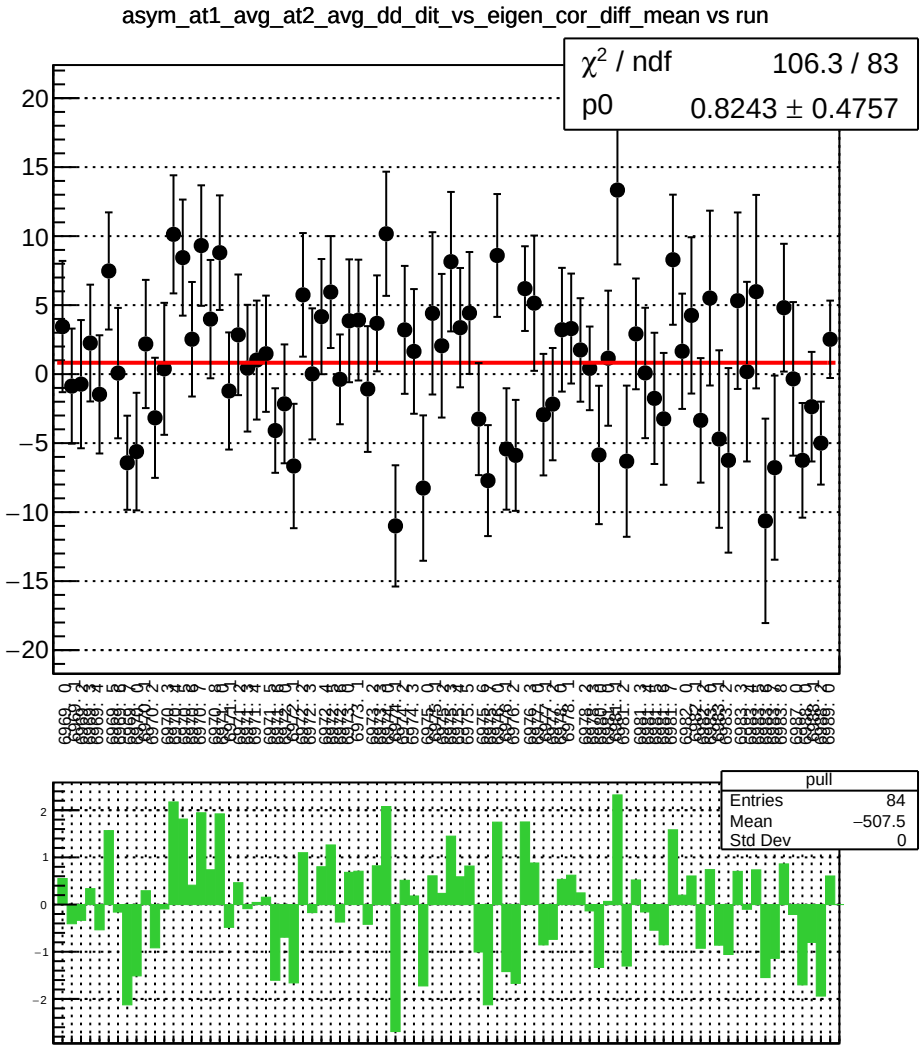
asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run

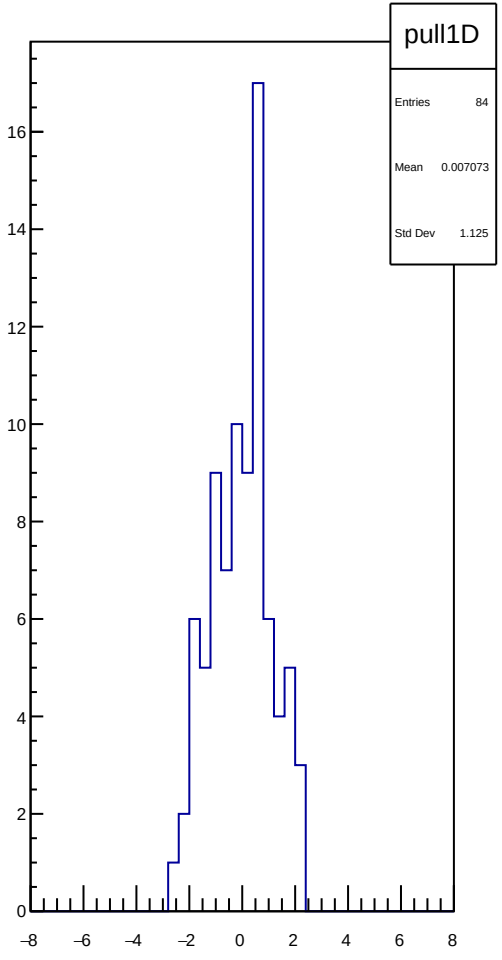


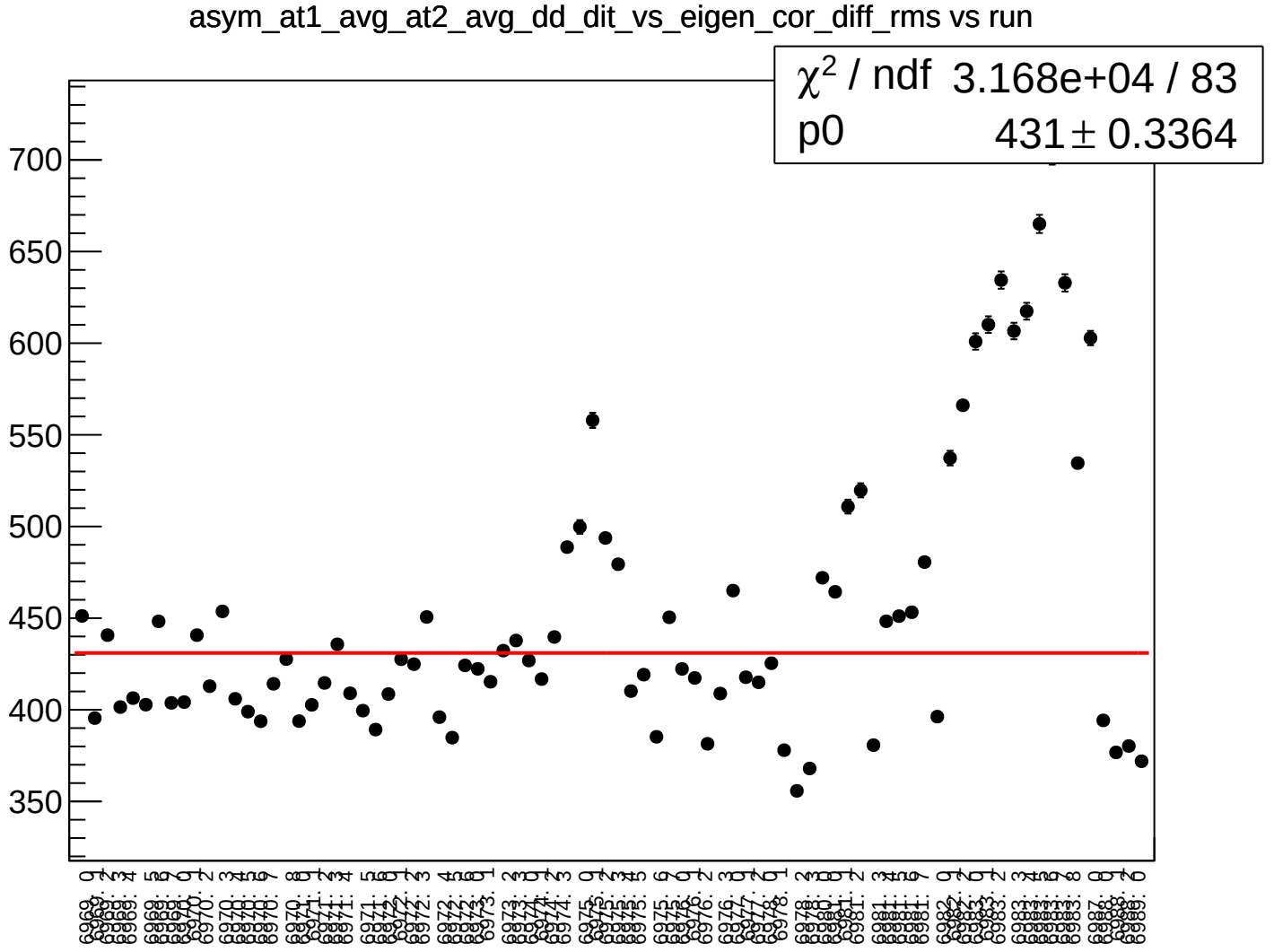


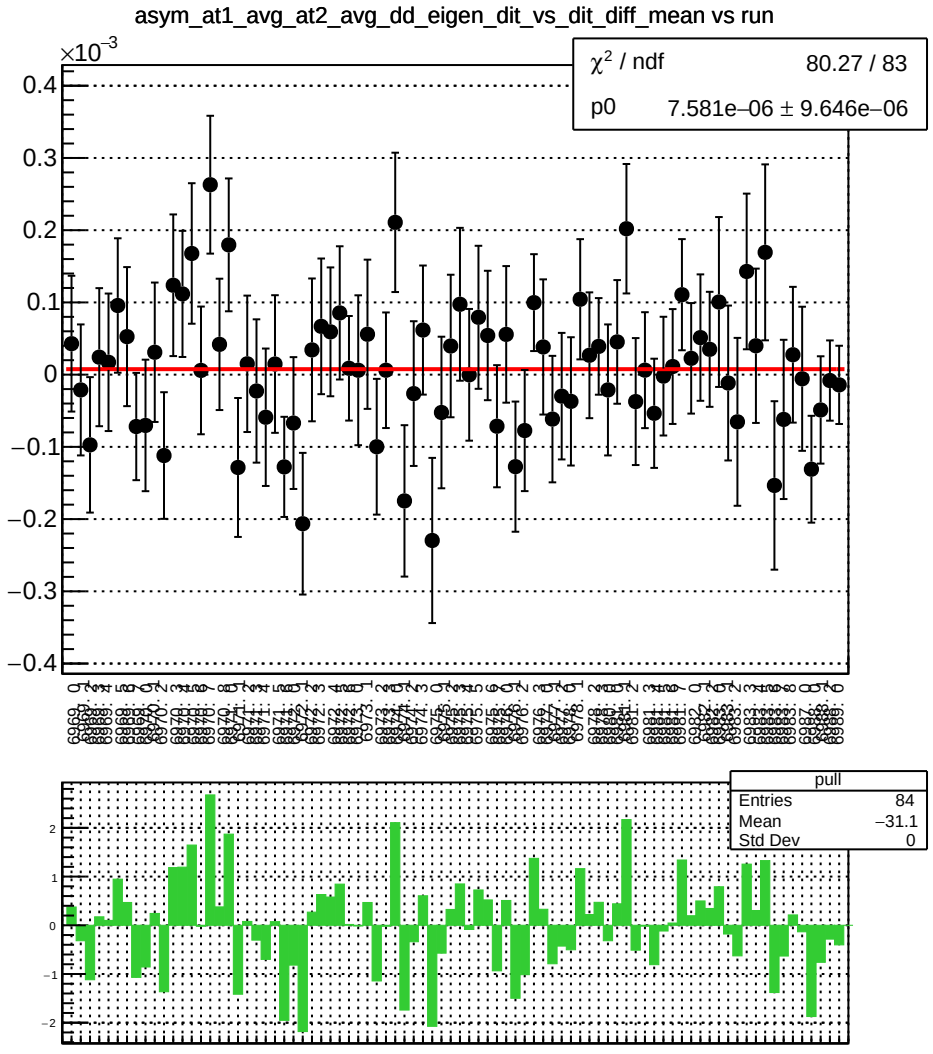


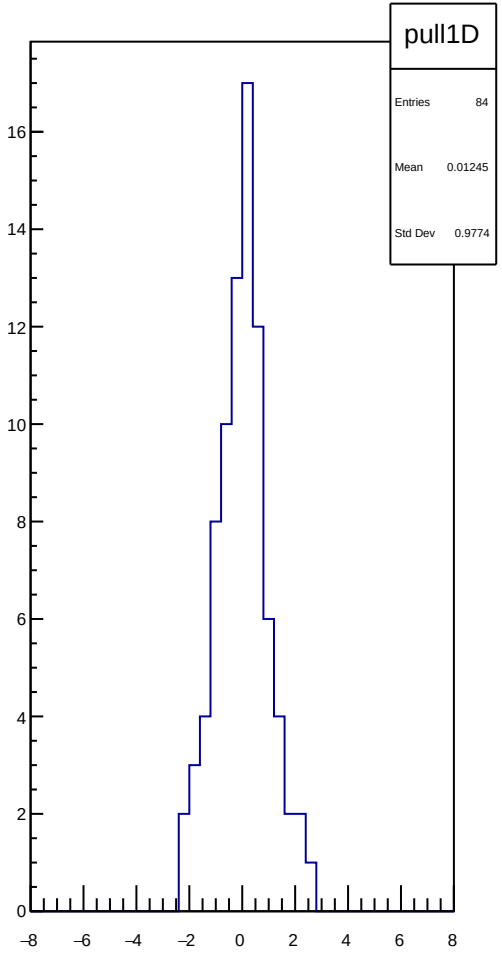

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.168e+04 / 83
p0 431 ± 0.3364
700
650
600
550
500
450
400
350

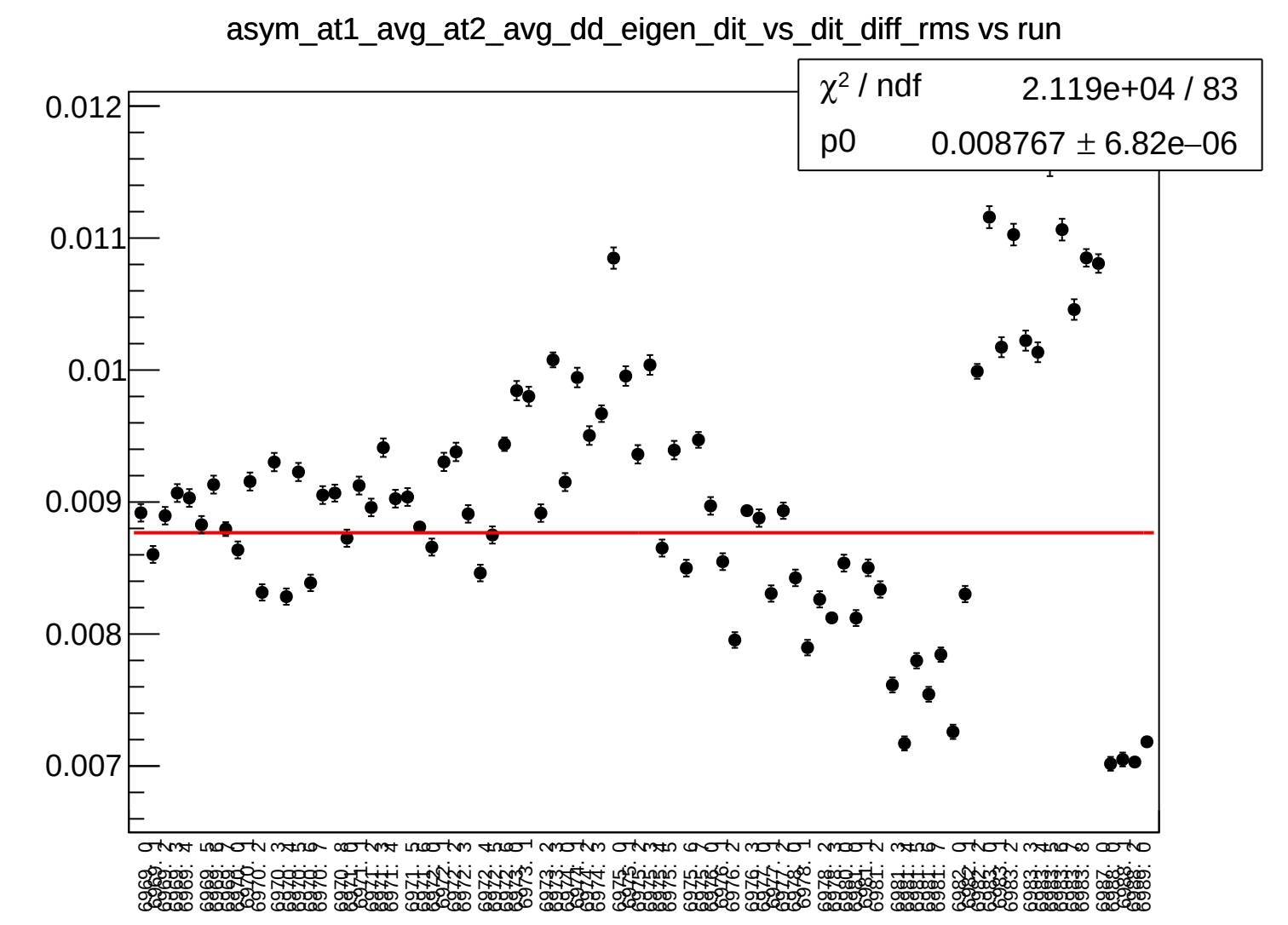

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 83
p0 0.8243 ± 0.4757
pull
Entries 84
Mean −507.5
Std Dev 0

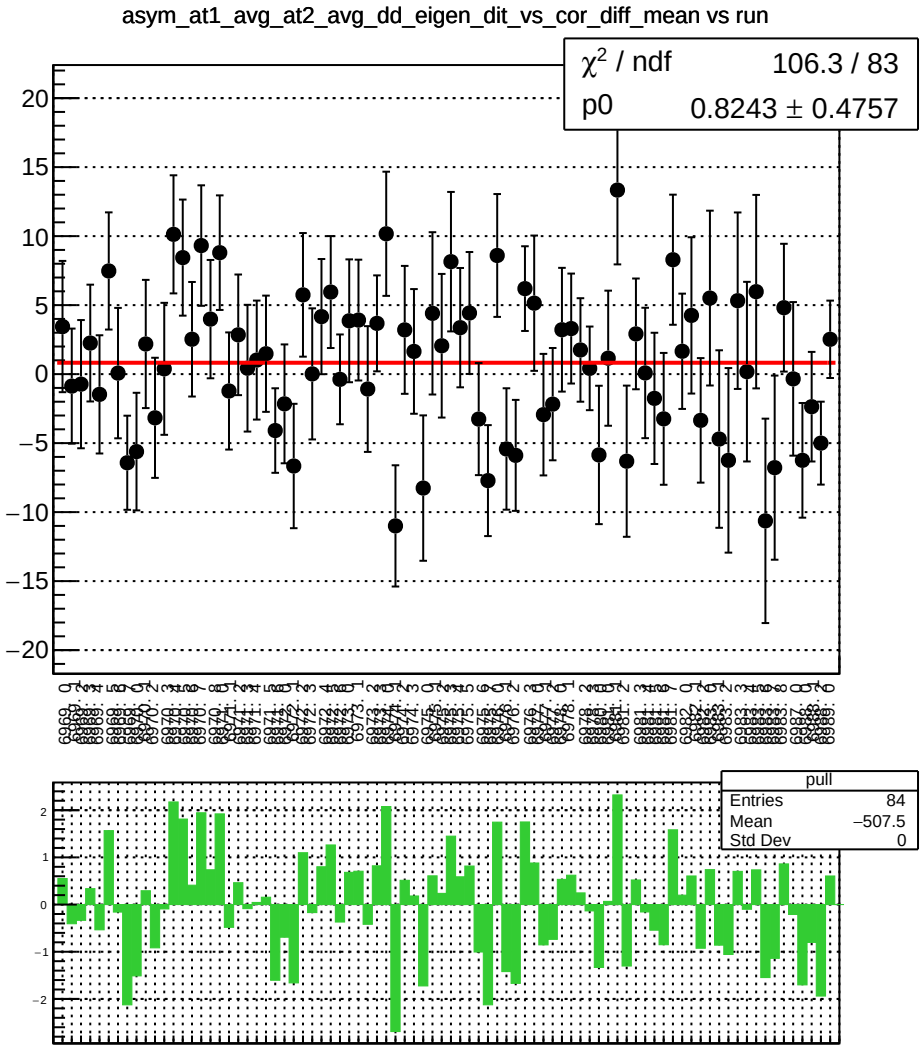

pull1D
Entries 84
Mean 0.007073
Std Dev 1.125

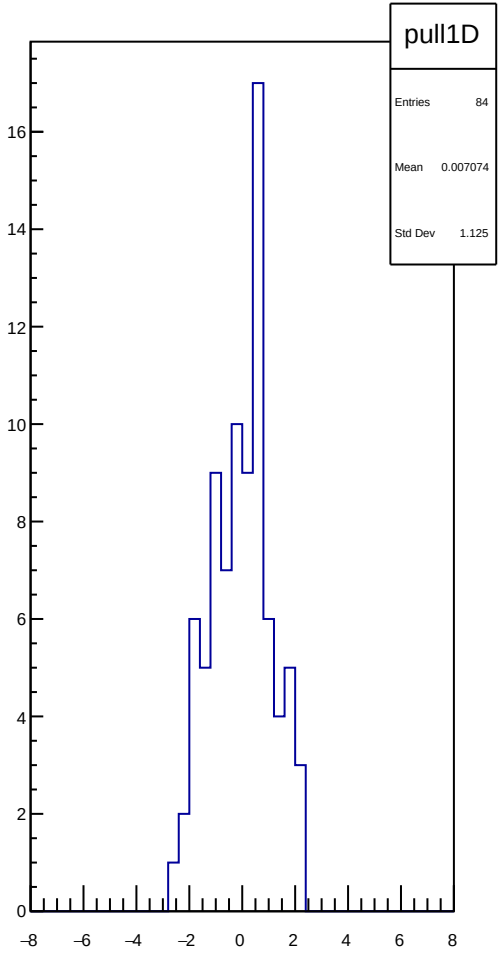

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.168e+04 / 83
p0 431 ± 0.3364
700
650
600
550
500
450
400
350

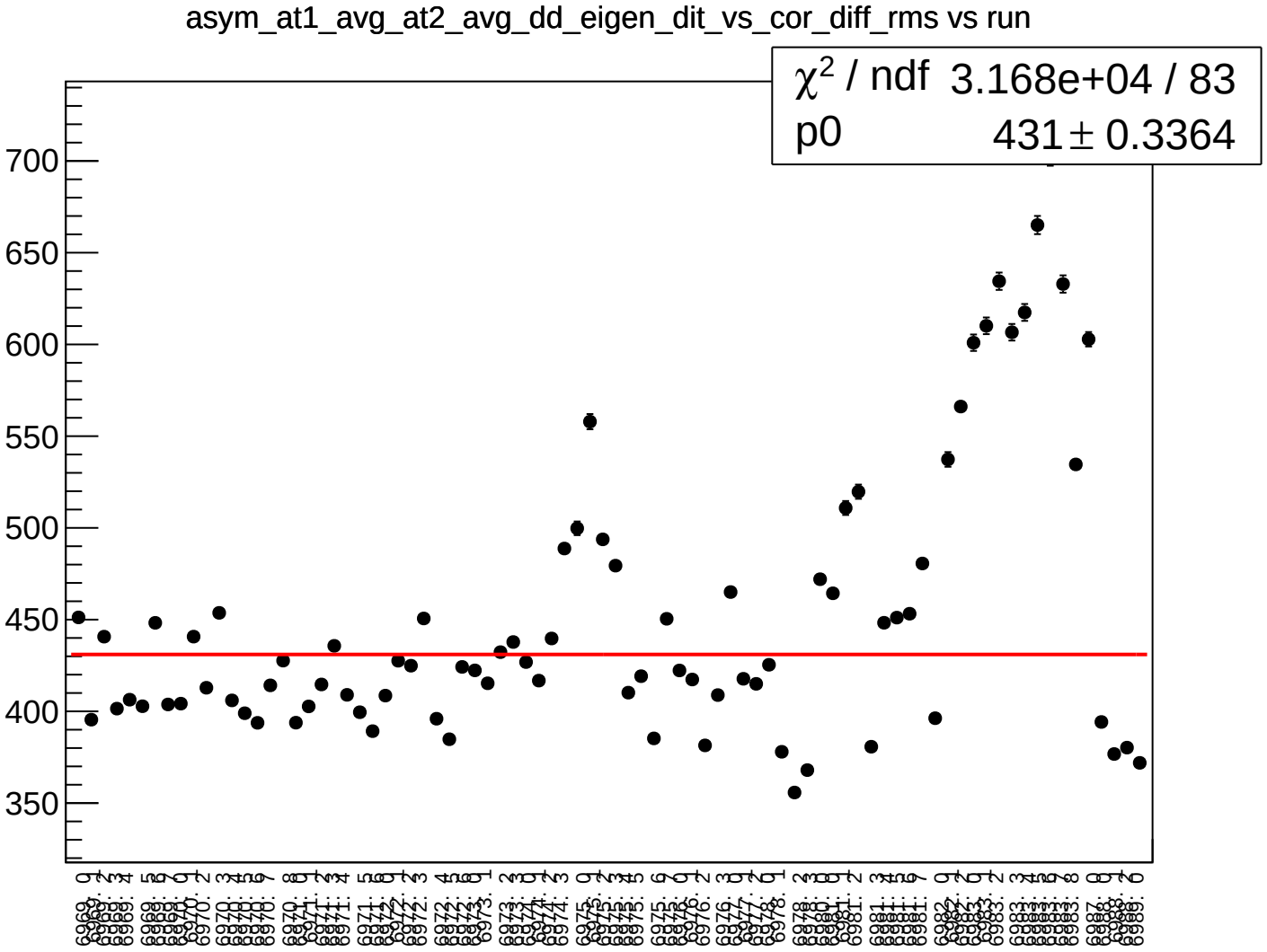

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.27 / 83
p0 7.581e−06 ± 9.646e−06
pull
Entries 84
Mean −31.1
Std Dev 0

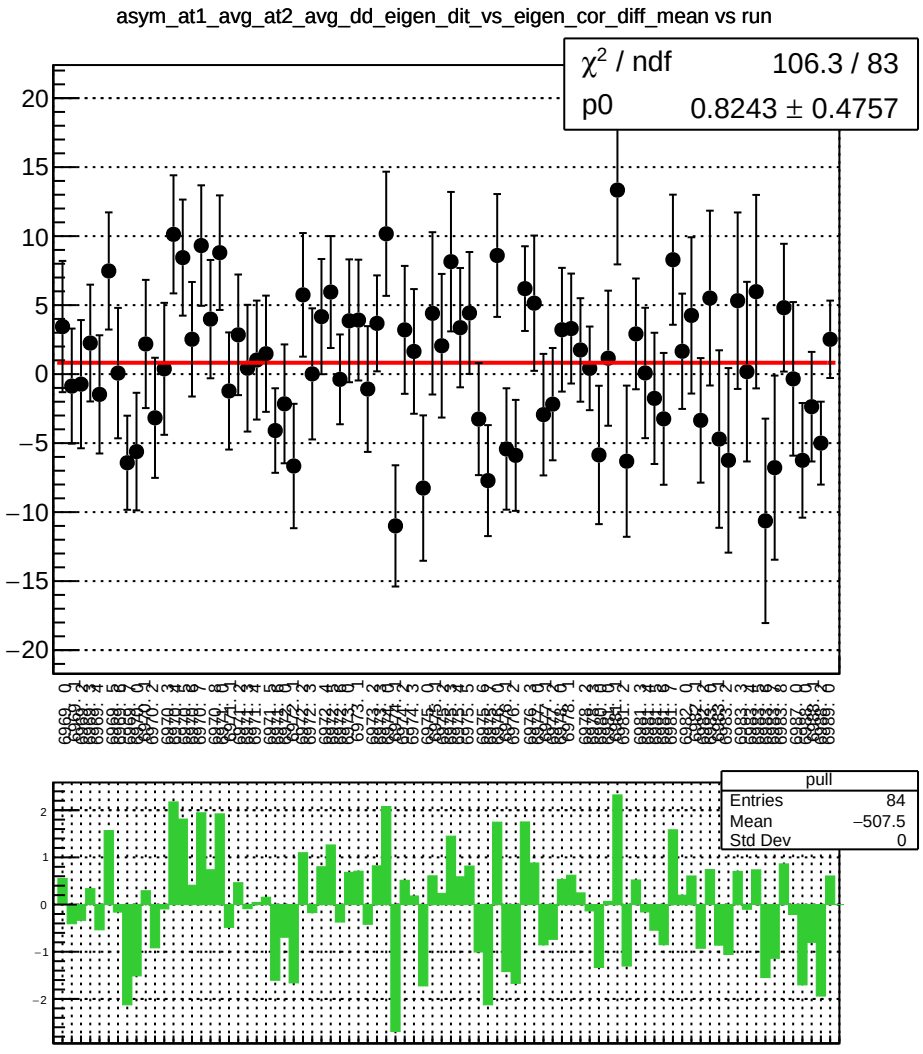

pull1D
Entries 84
Mean 0.01245
Std Dev 0.9774

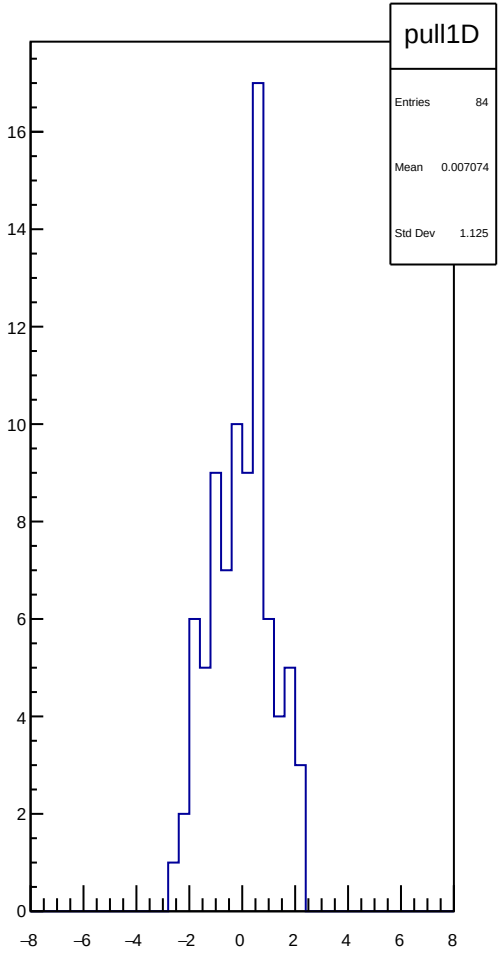

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.119e+04 / 83
p0 0.008767 ± 6.82e−06
0.012
0.011
0.01
0.009
0.008
0.007

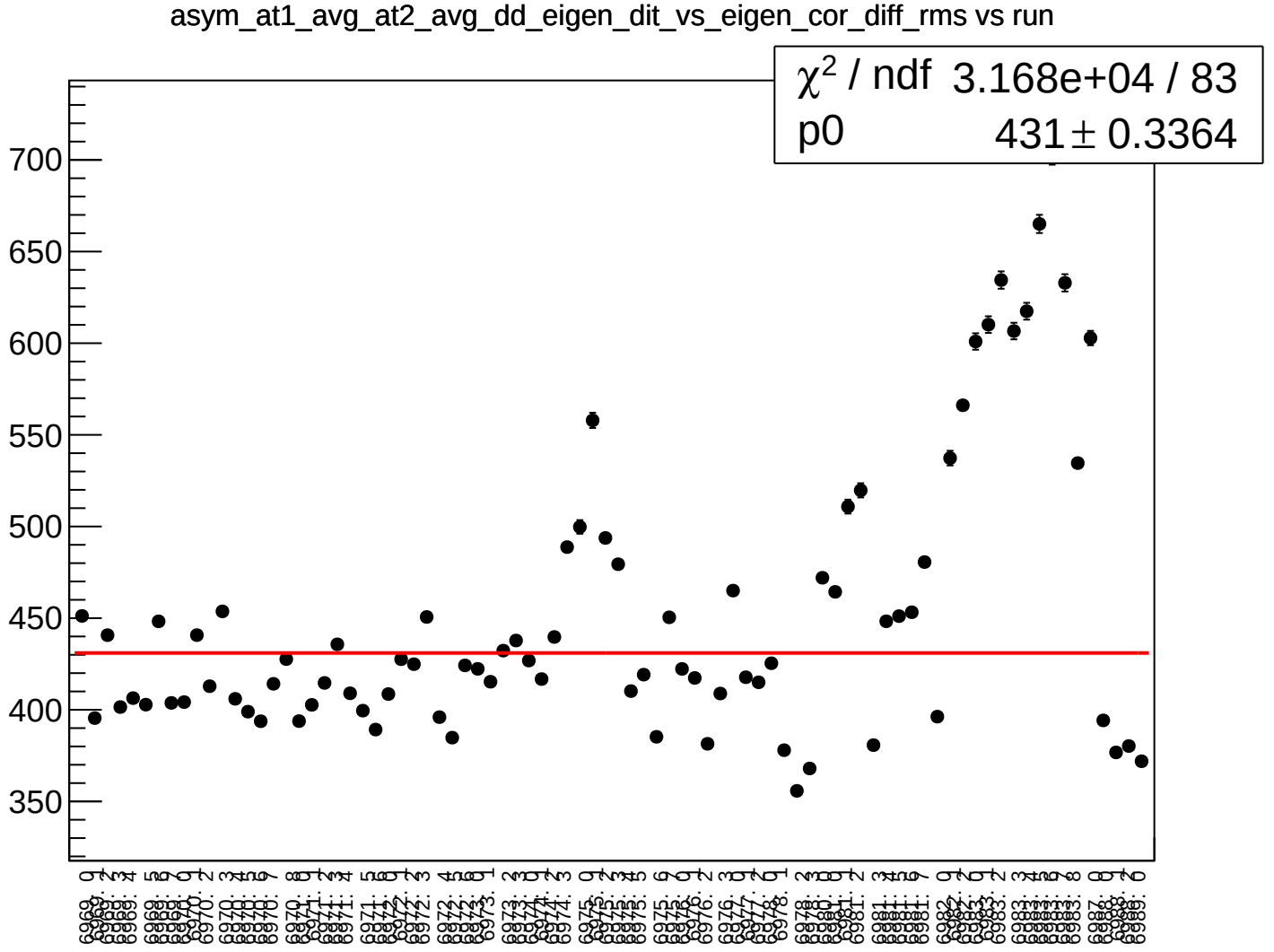

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 83
p0 0.8243 ± 0.4757
pull
Entries 84
Mean −507.5
Std Dev 0

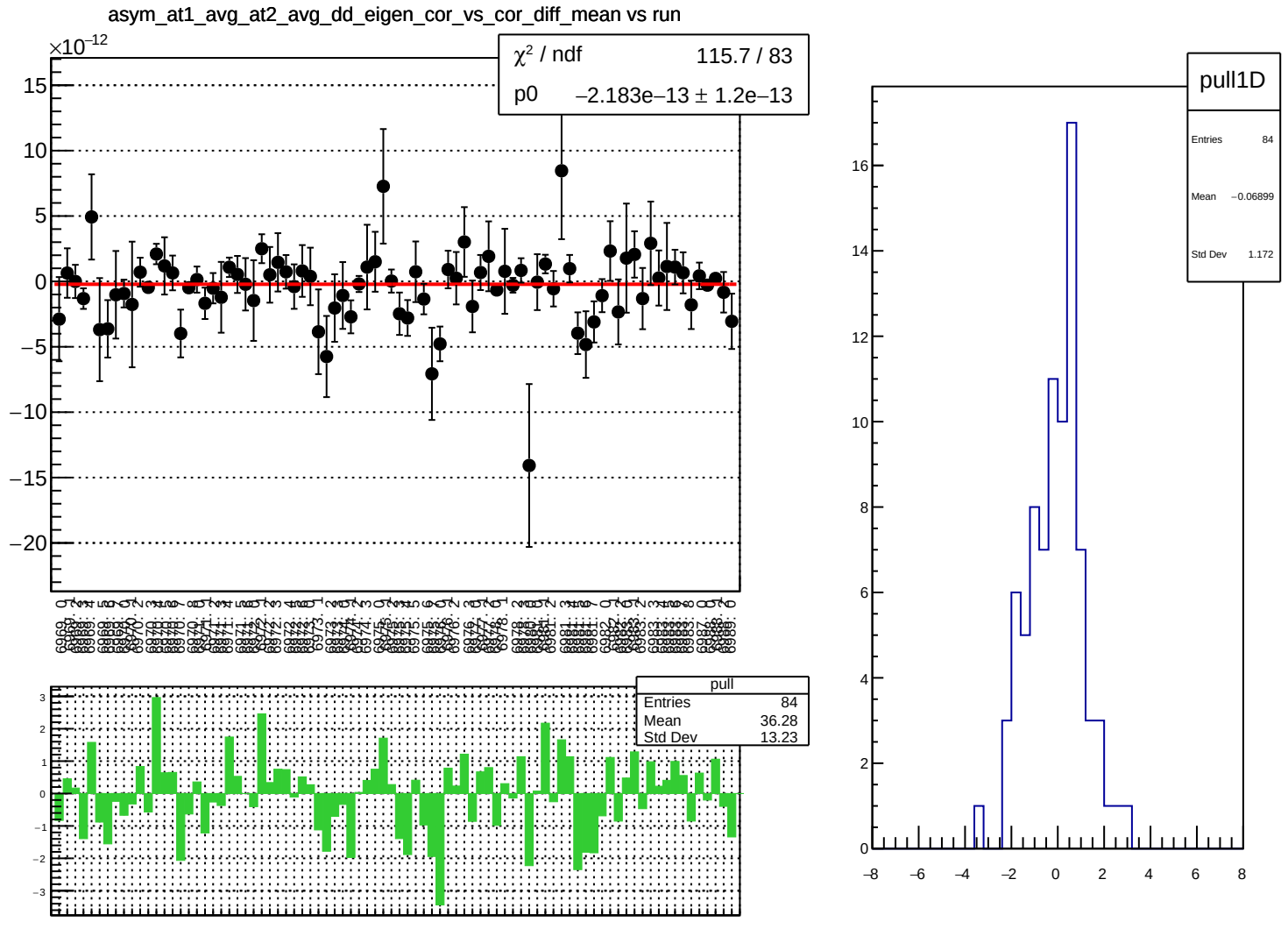

pull1D
Entries 84
Mean 0.007074
Std Dev 1.125

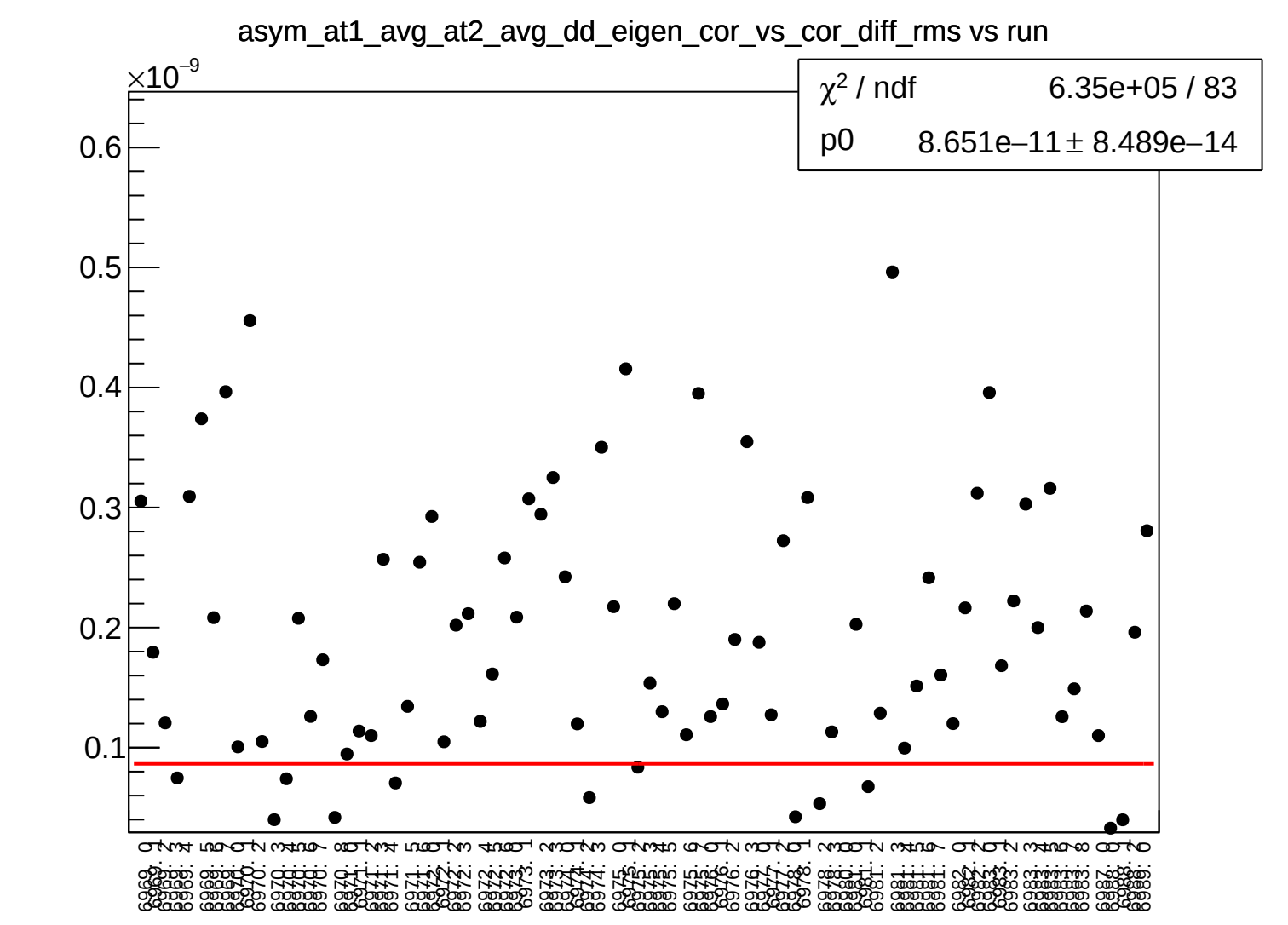

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.168e+04 / 83
p0 431 ± 0.3364
700
650
600
550
500
450
400
350

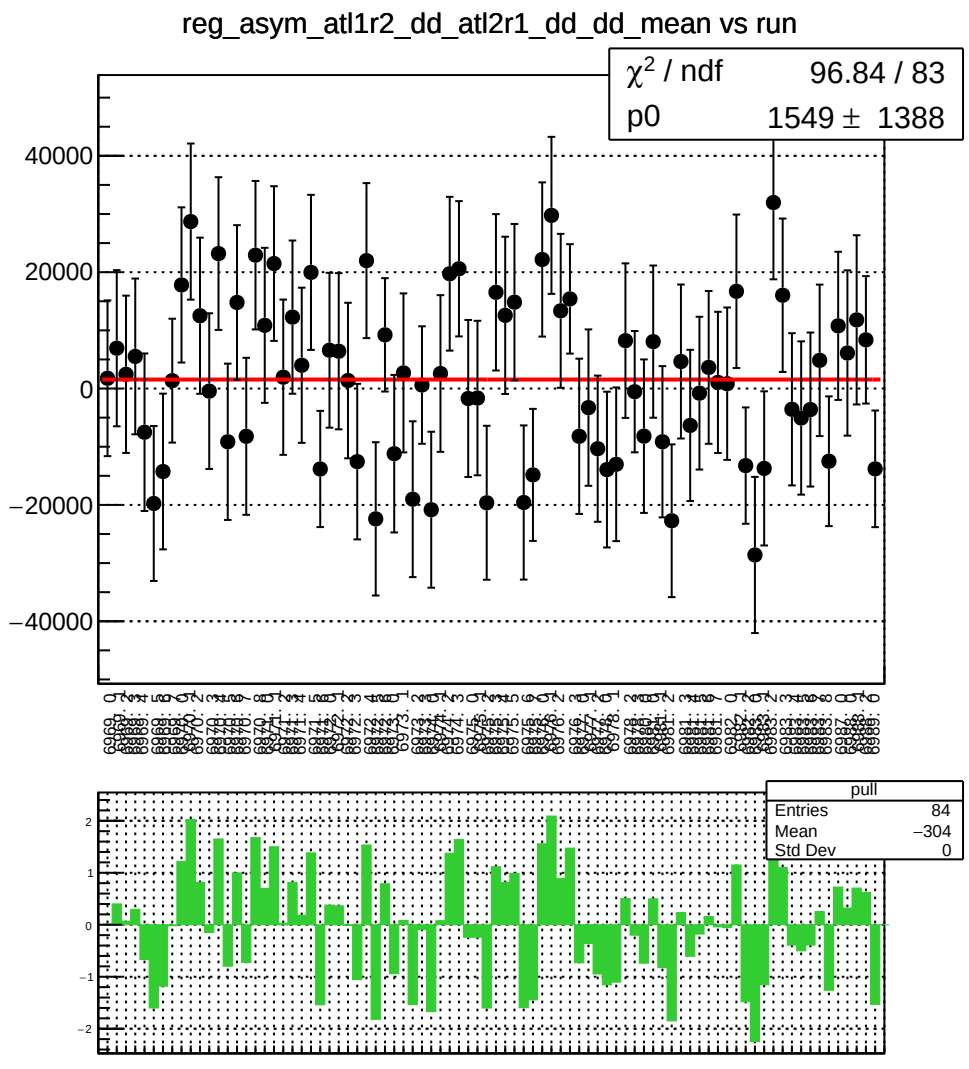

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 83
p0 0.8243 ± 0.4757
pull
Entries 84
Mean −507.5
Std Dev 0

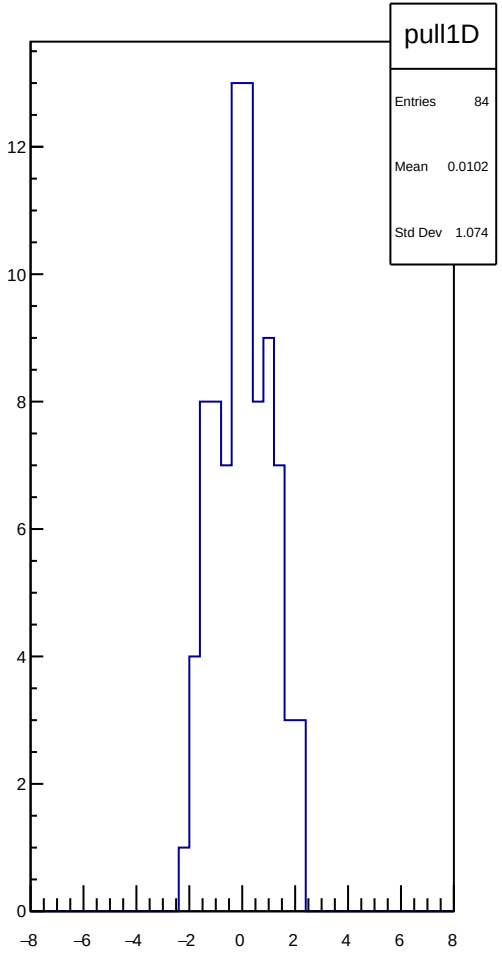

pull1D
Entries 84
Mean 0.007074
Std Dev 1.125

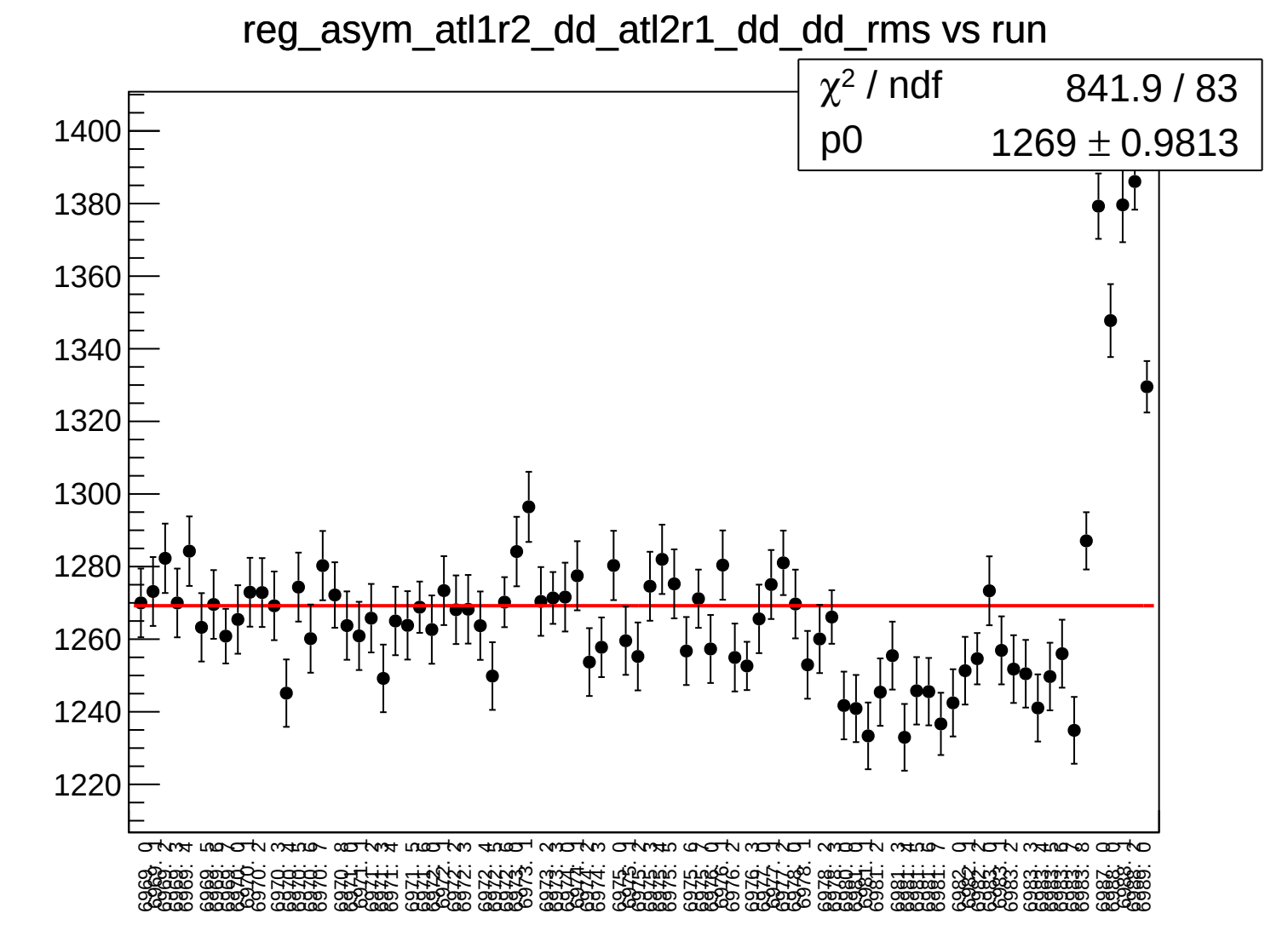

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.168e+04 / 83
p0 431 ± 0.3364
700
650
600
550
500
450
400
350

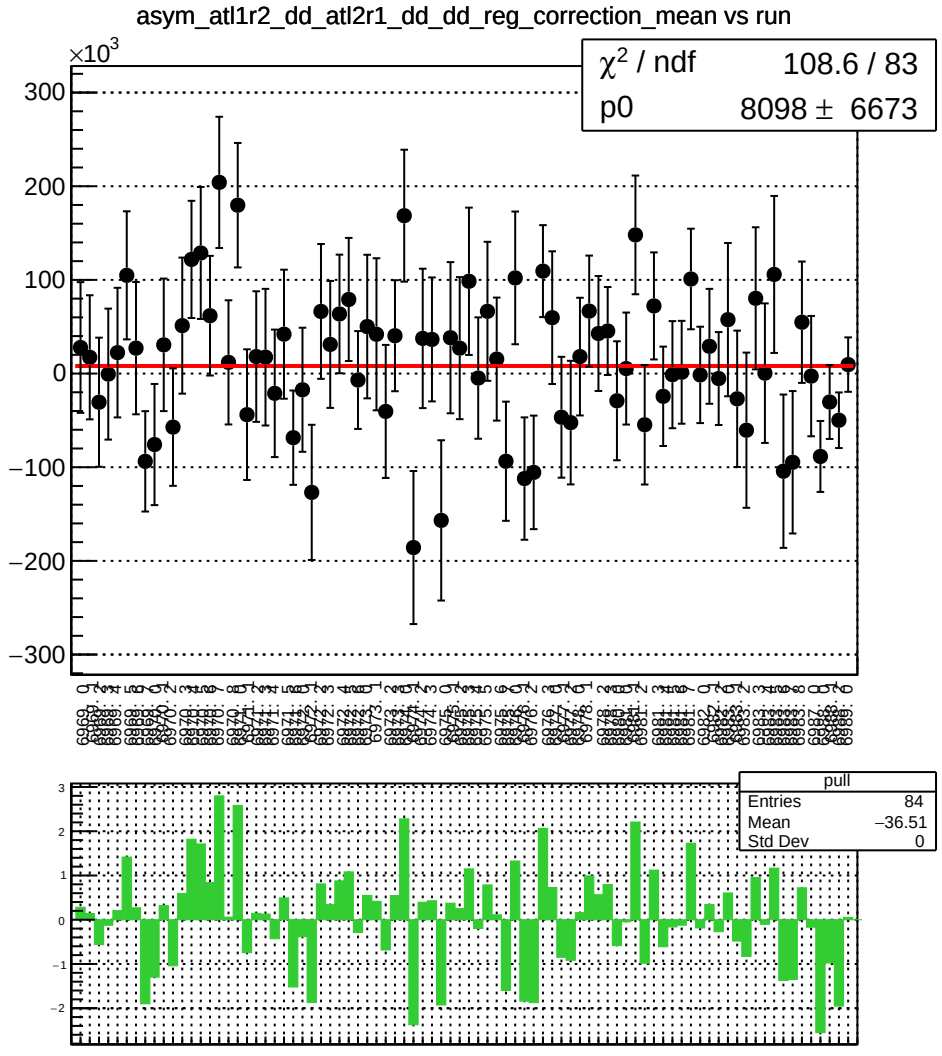

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.7 / 83
p0 −2.183e−13 ± 1.2e−13
pull
Entries 84
Mean 36.28
Std Dev 13.23
pull1D
Entries 84
Mean −0.06899
Std Dev 1.172

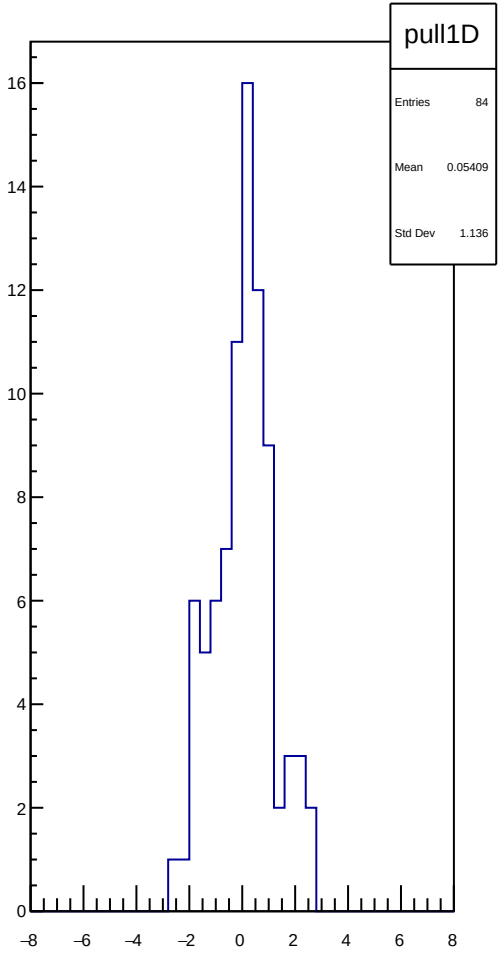

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.35e+05 / 83
p0 8.651e−11 ± 8.489e−14
0.6
0.5
0.4
0.3
0.2
0.1

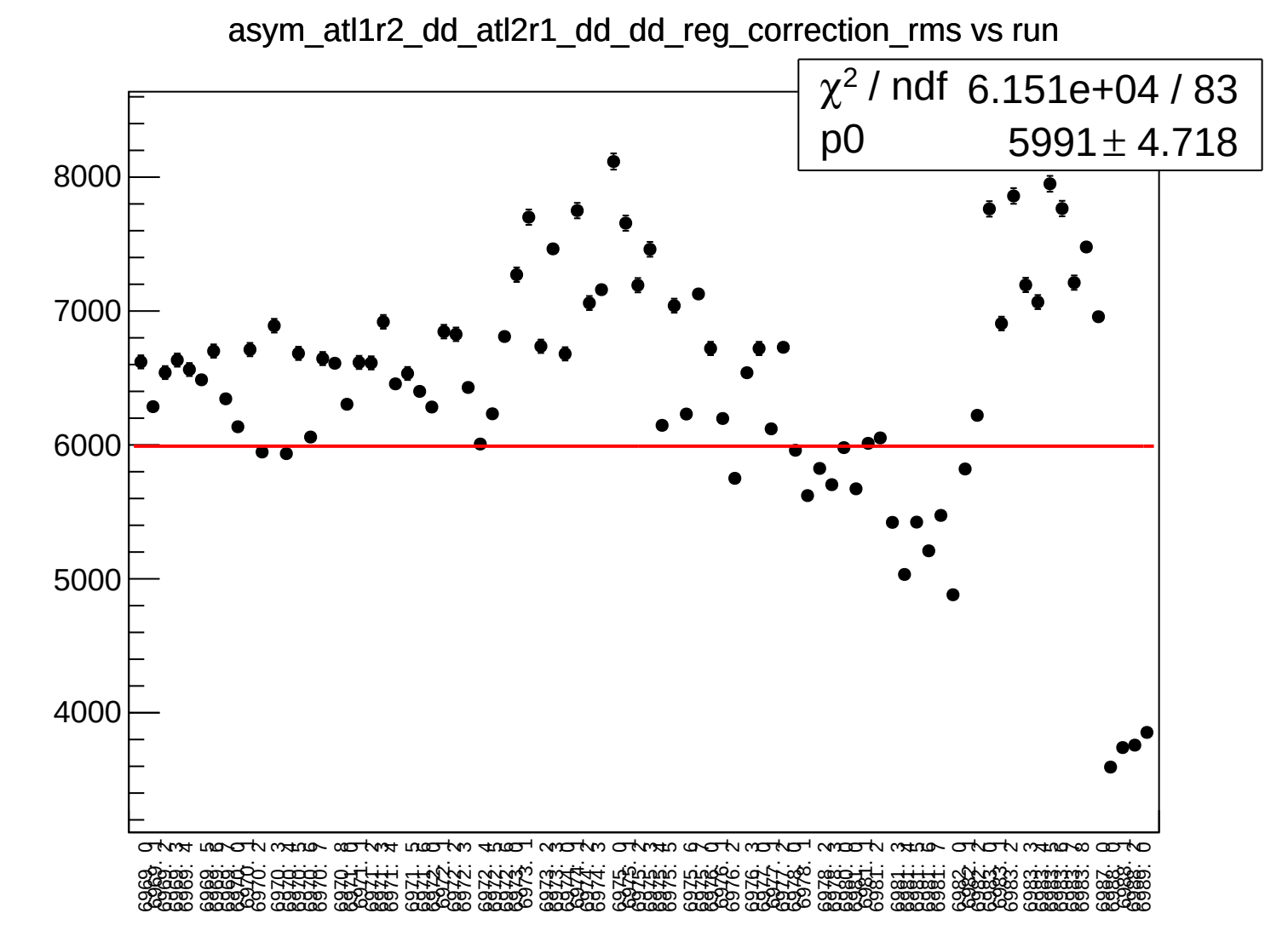

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 96.84 / 83
p0 1549 ± 1388
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −304
Std Dev 0
2
1
0
−1
−2

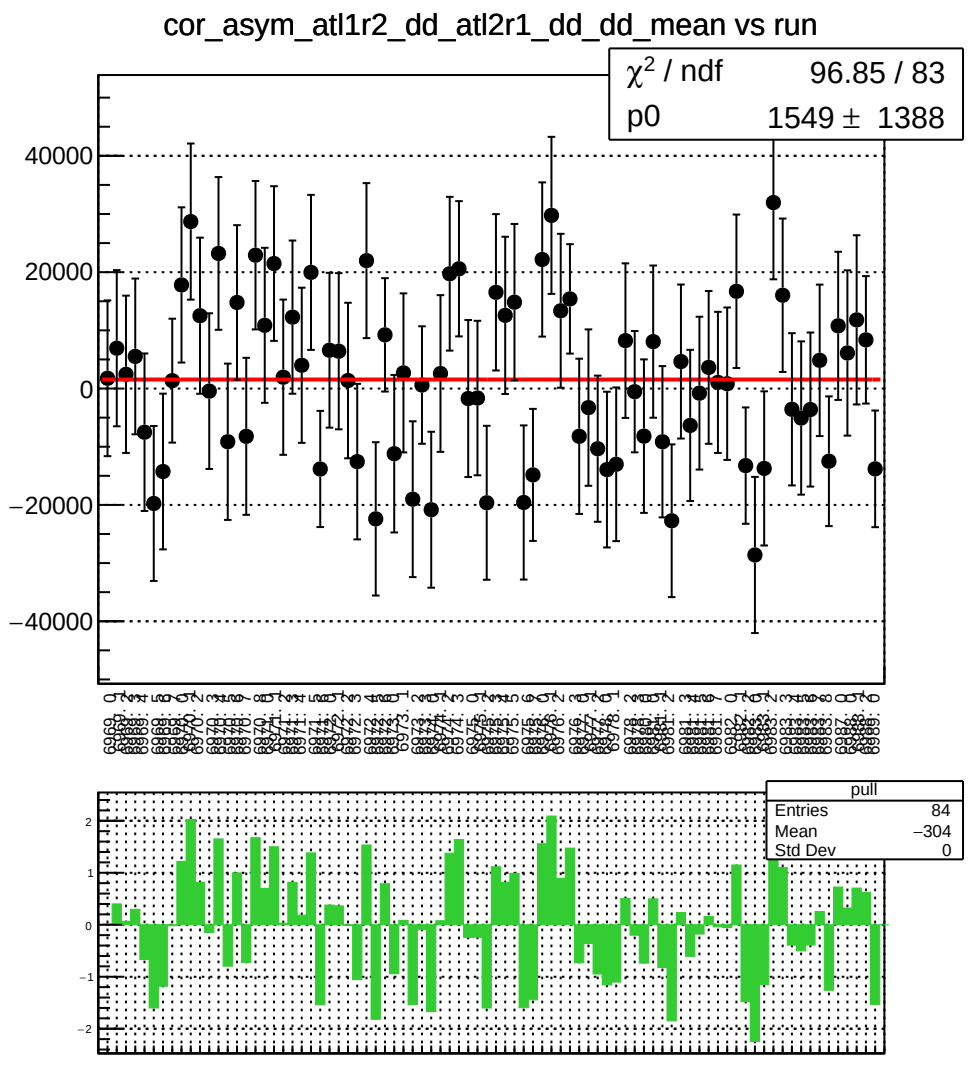

pull1D
Entries 84
Mean 0.0102
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

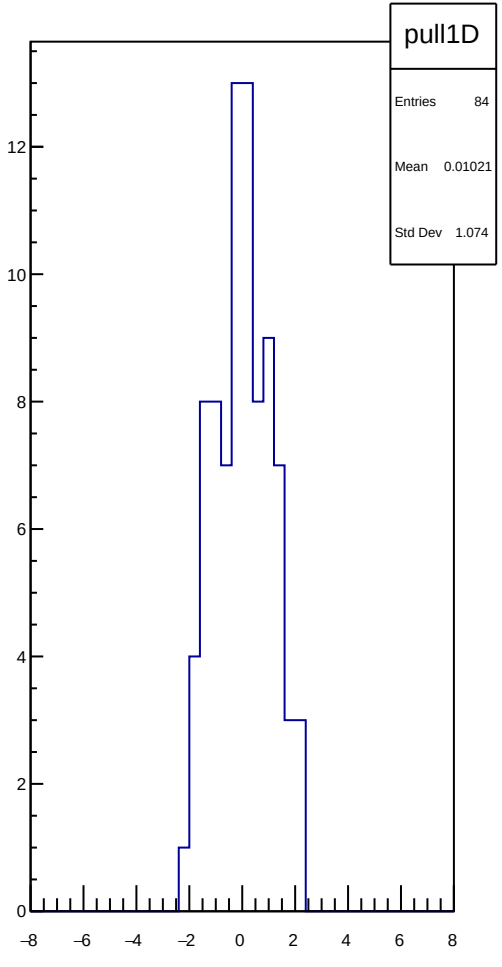

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 841.9 / 83
p0 1269 ± 0.9813
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

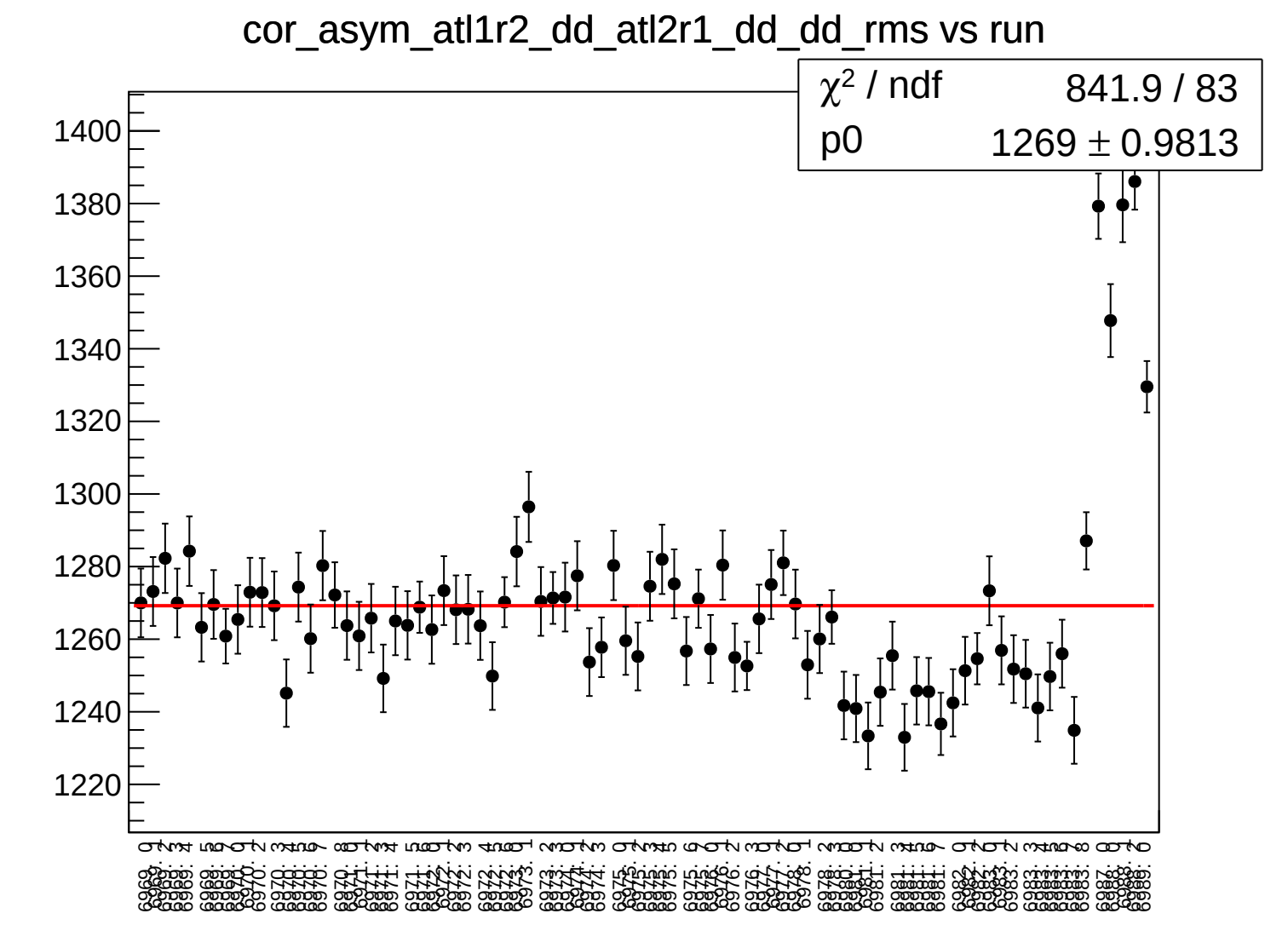

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 108.6 / 83
p0 8098 ± 6673
pull
Entries 84
Mean −36.51
Std Dev 0

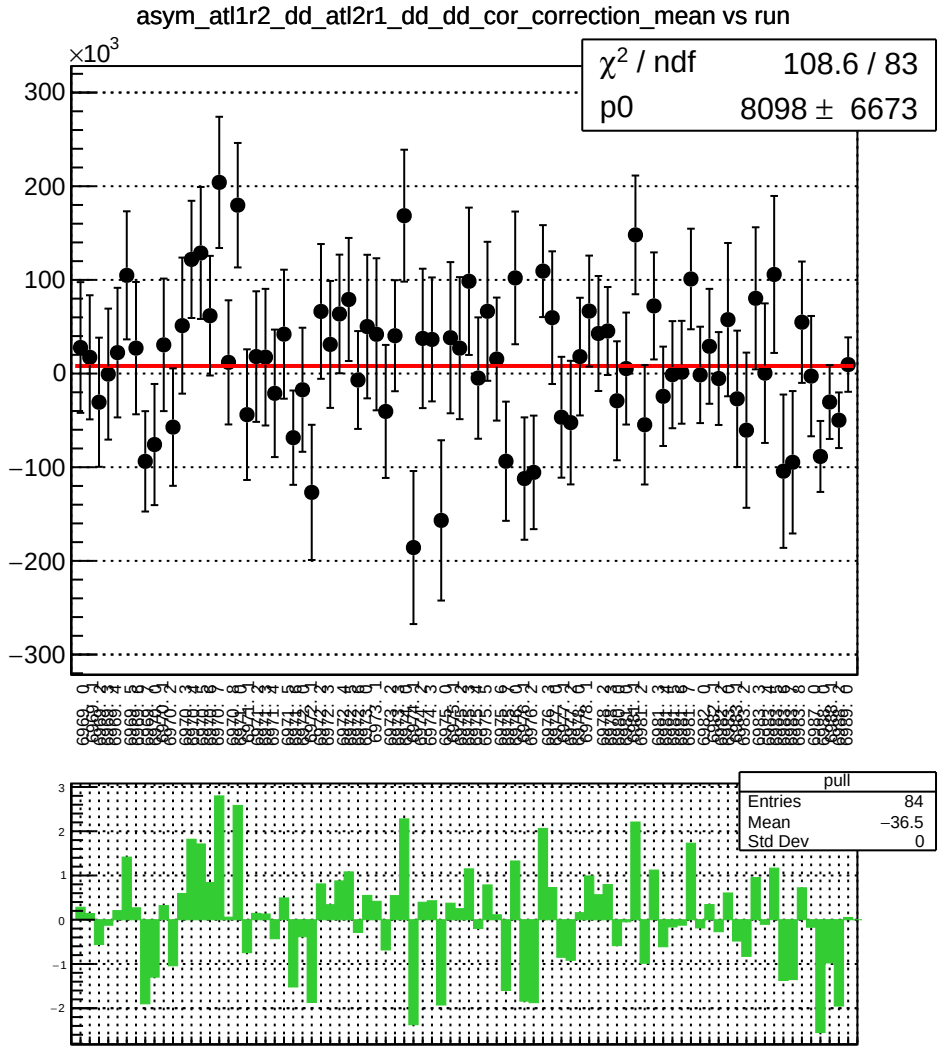

pull1D
Entries 84
Mean 0.05409
Std Dev 1.136

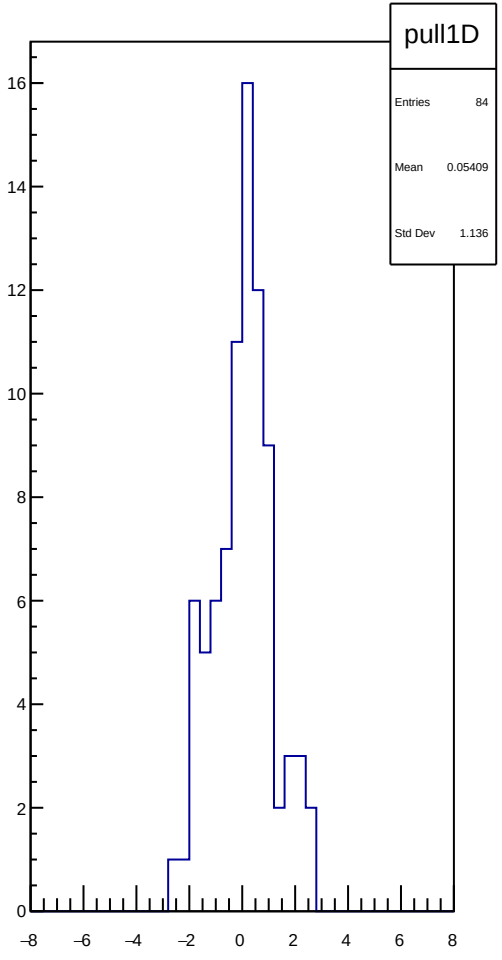

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 6.151e+04 / 83
p0 5991 ± 4.718
8000
7000
6000
5000
4000

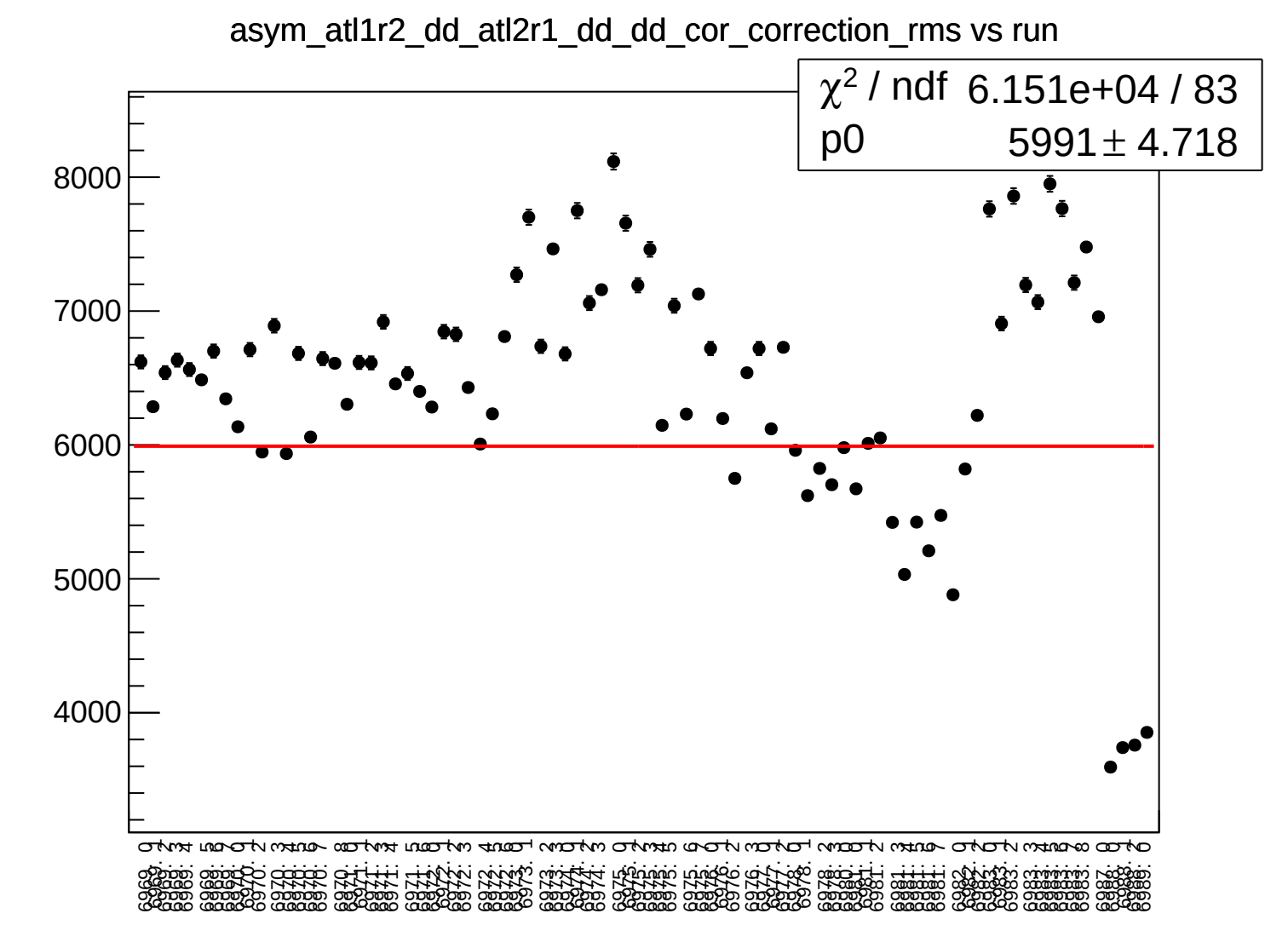

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 96.85 / 83
p0 1549 ± 1388
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −304
Std Dev 0
2
1
0
−1
−2

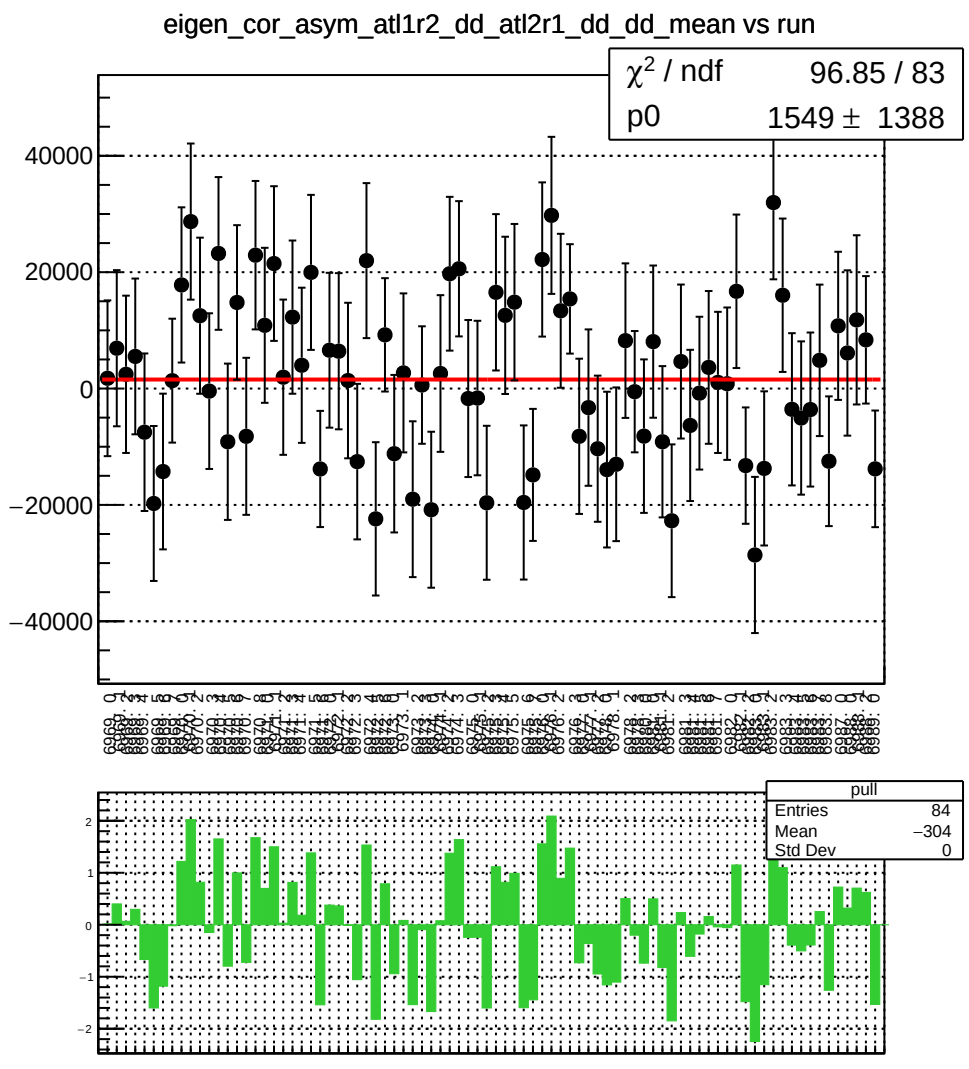

pull1D
Entries 84
Mean 0.01021
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

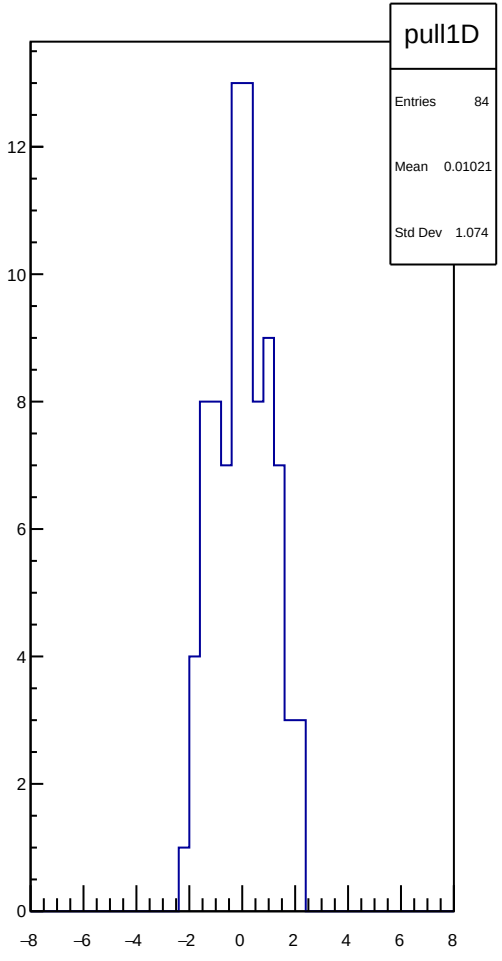

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 841.9 / 83
p0 1269 ± 0.9813
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

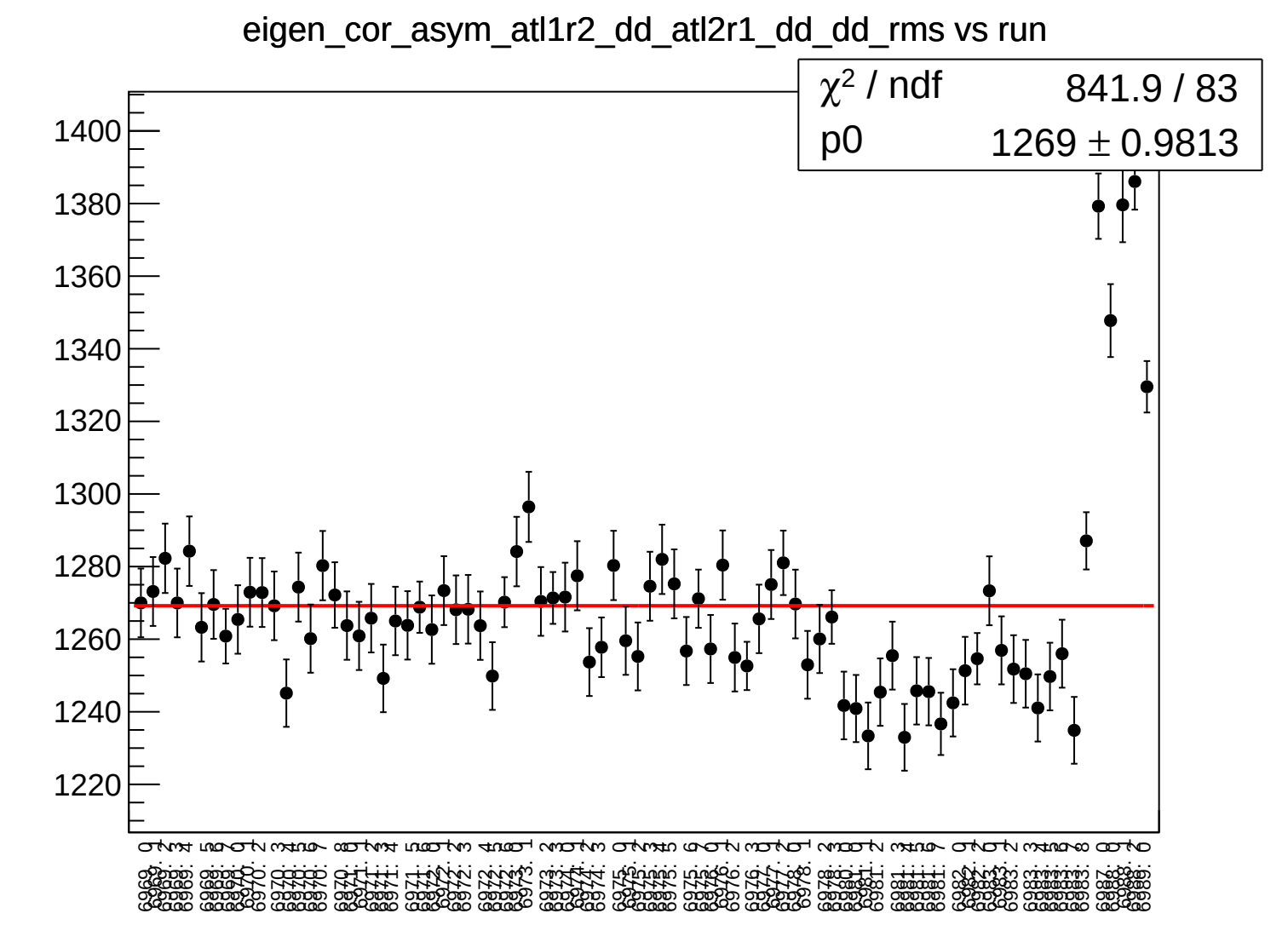

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 108.6 / 83
p0 8098 ± 6673
pull
Entries 84
Mean −36.5
Std Dev 0

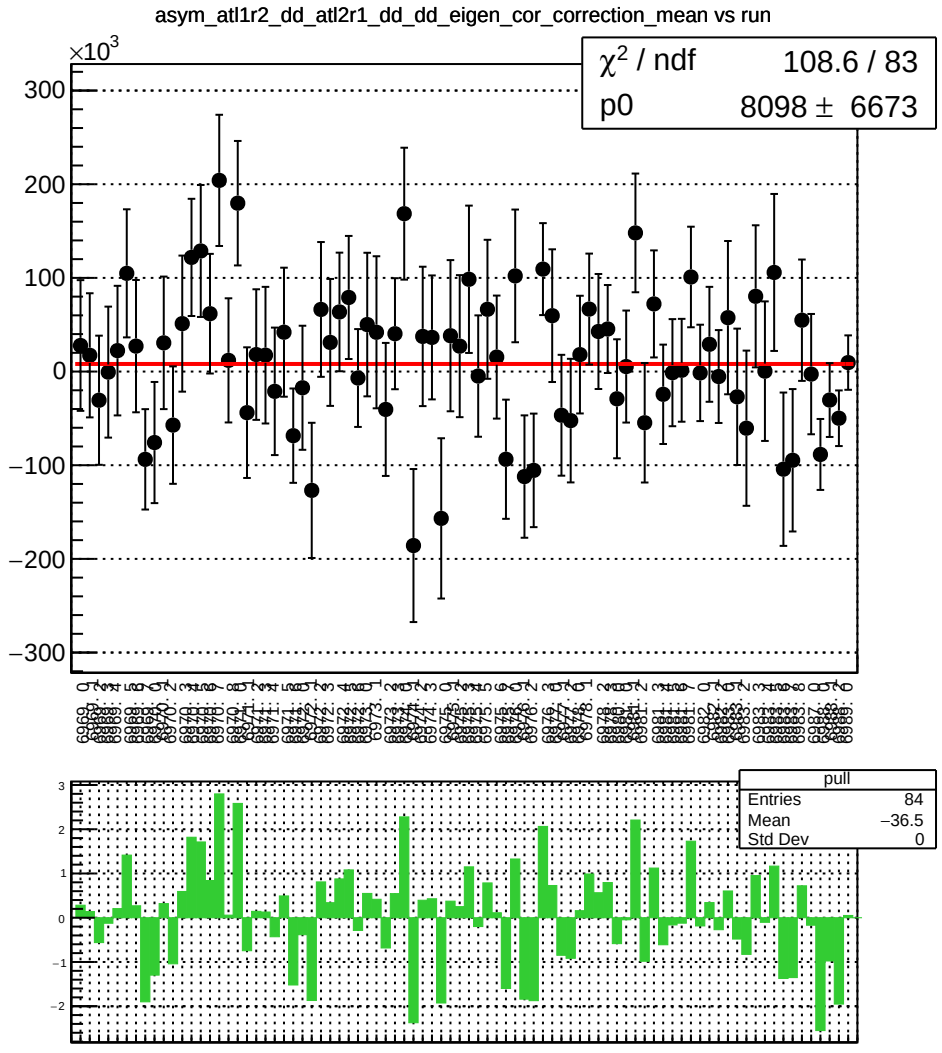

pull1D
Entries 84
Mean 0.05409
Std Dev 1.136

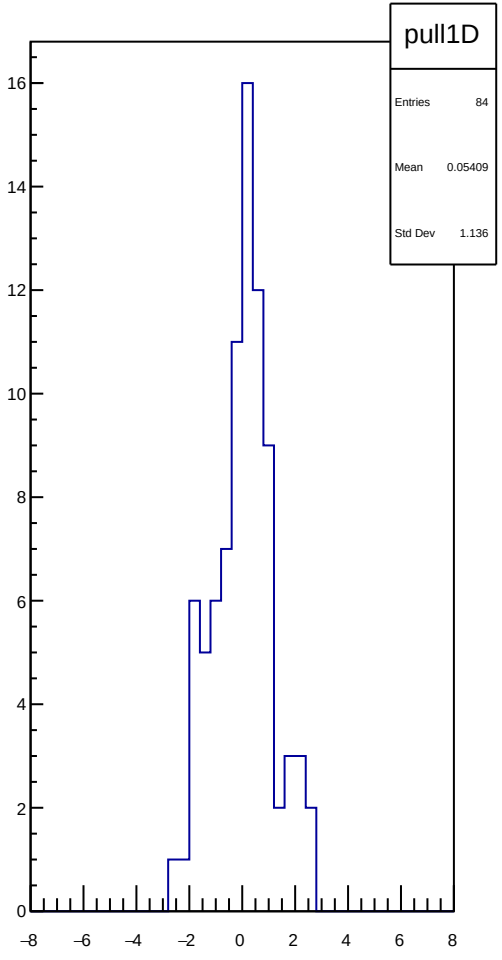

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 6.151e+04 / 83
p0 5991 ± 4.718
8000
7000
6000
5000
4000

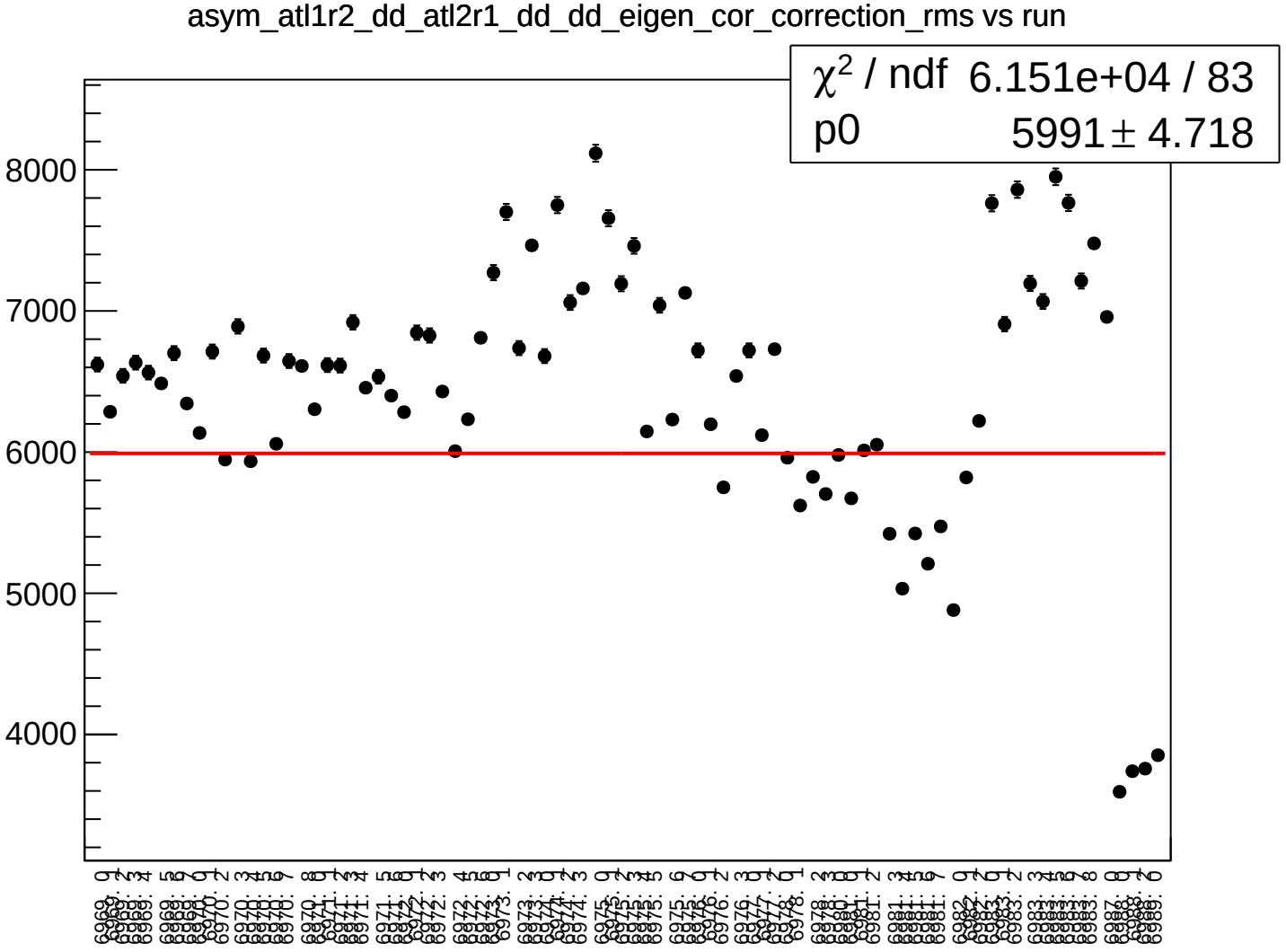

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 96.85 / 83
p0 1549 ± 1388
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −304
Std Dev 0
2
1
0
−1
−2

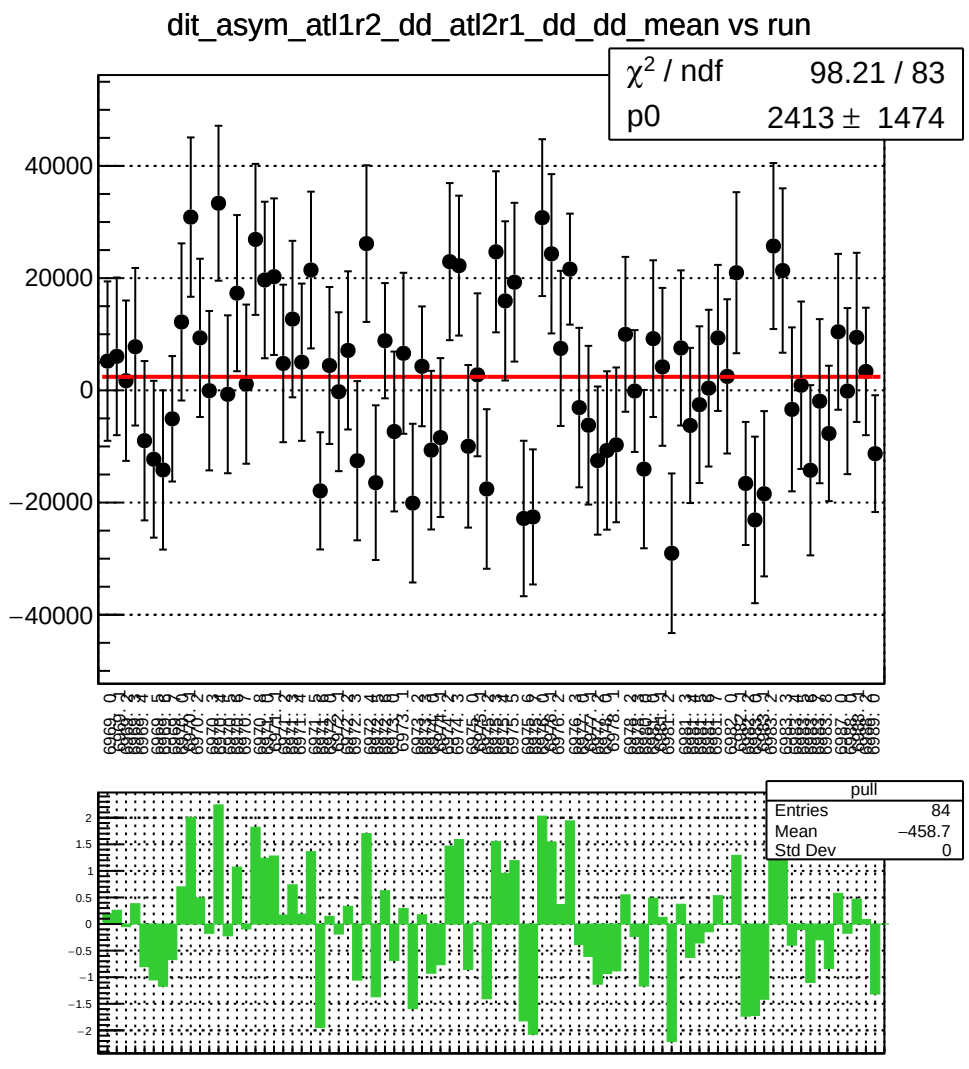

pull1D
Entries 84
Mean 0.01021
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

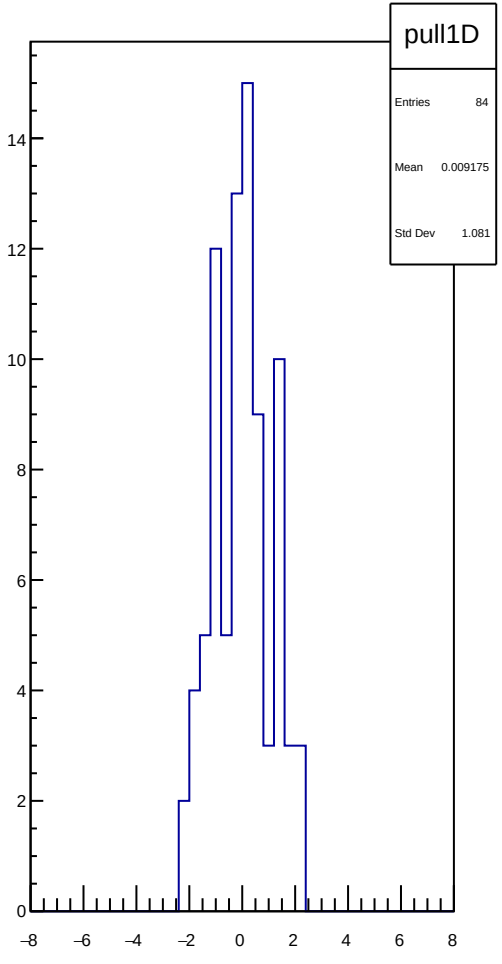

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 841.9 / 83
p0 1269 ± 0.9813
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

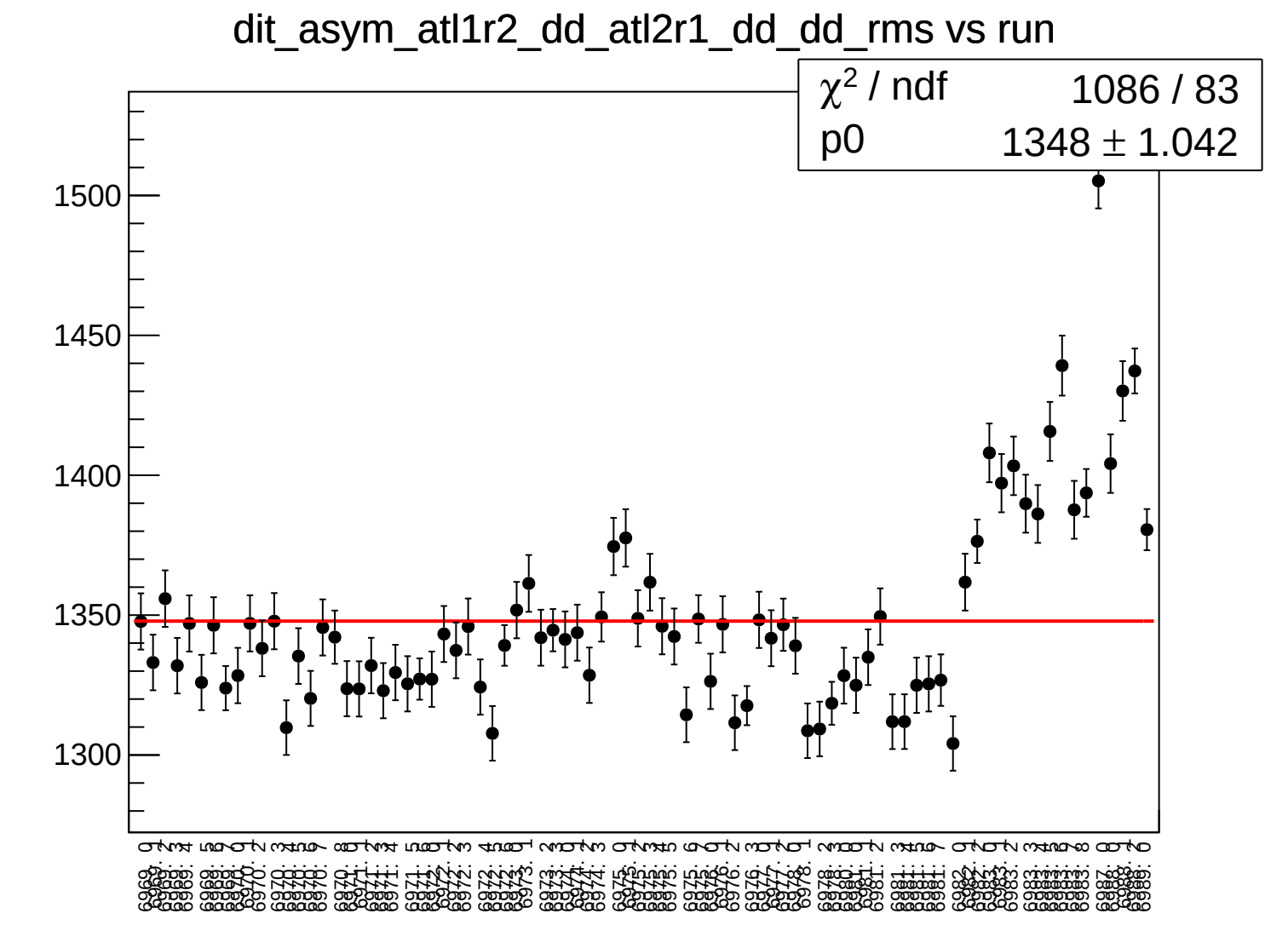

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108.6 / 83
p0 8098 ± 6673
pull
Entries 84
Mean −36.5
Std Dev 0

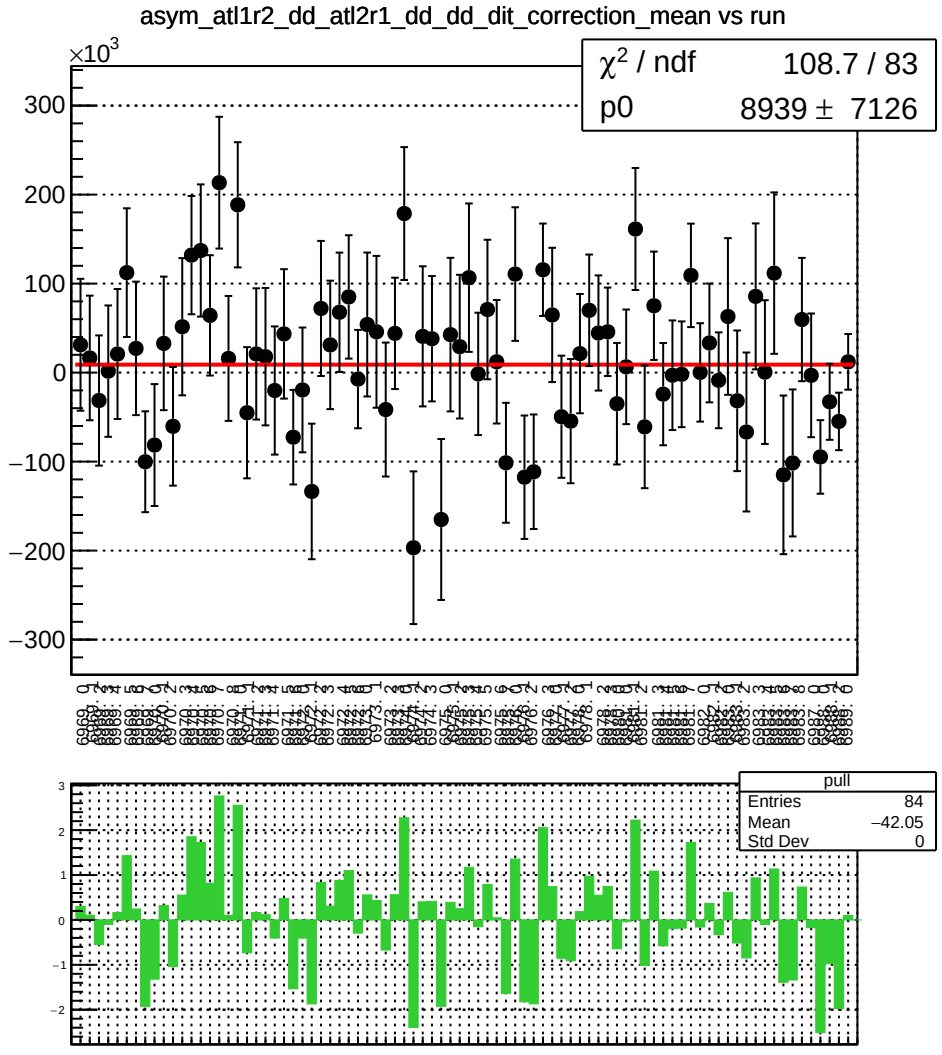

pull1D
Entries 84
Mean 0.05409
Std Dev 1.136

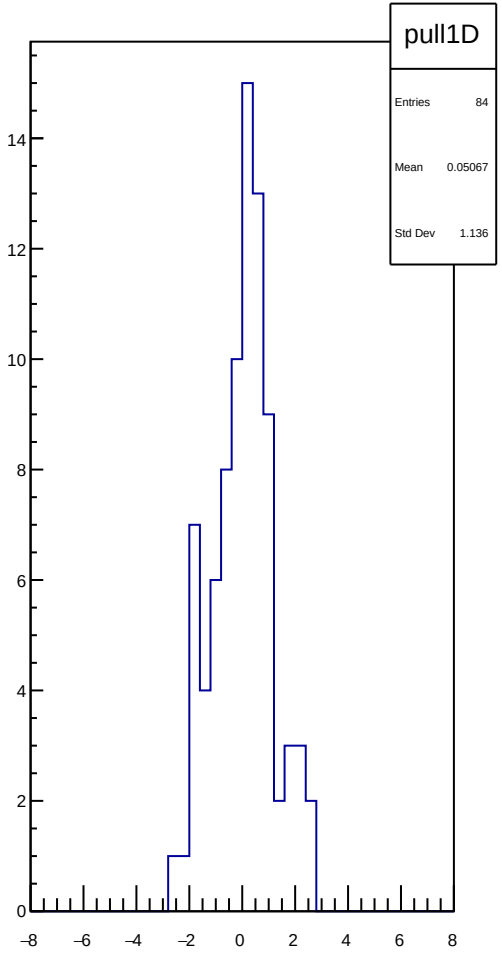

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.151e+04 / 83
p0 5991 ± 4.718
8000
7000
6000
5000
4000

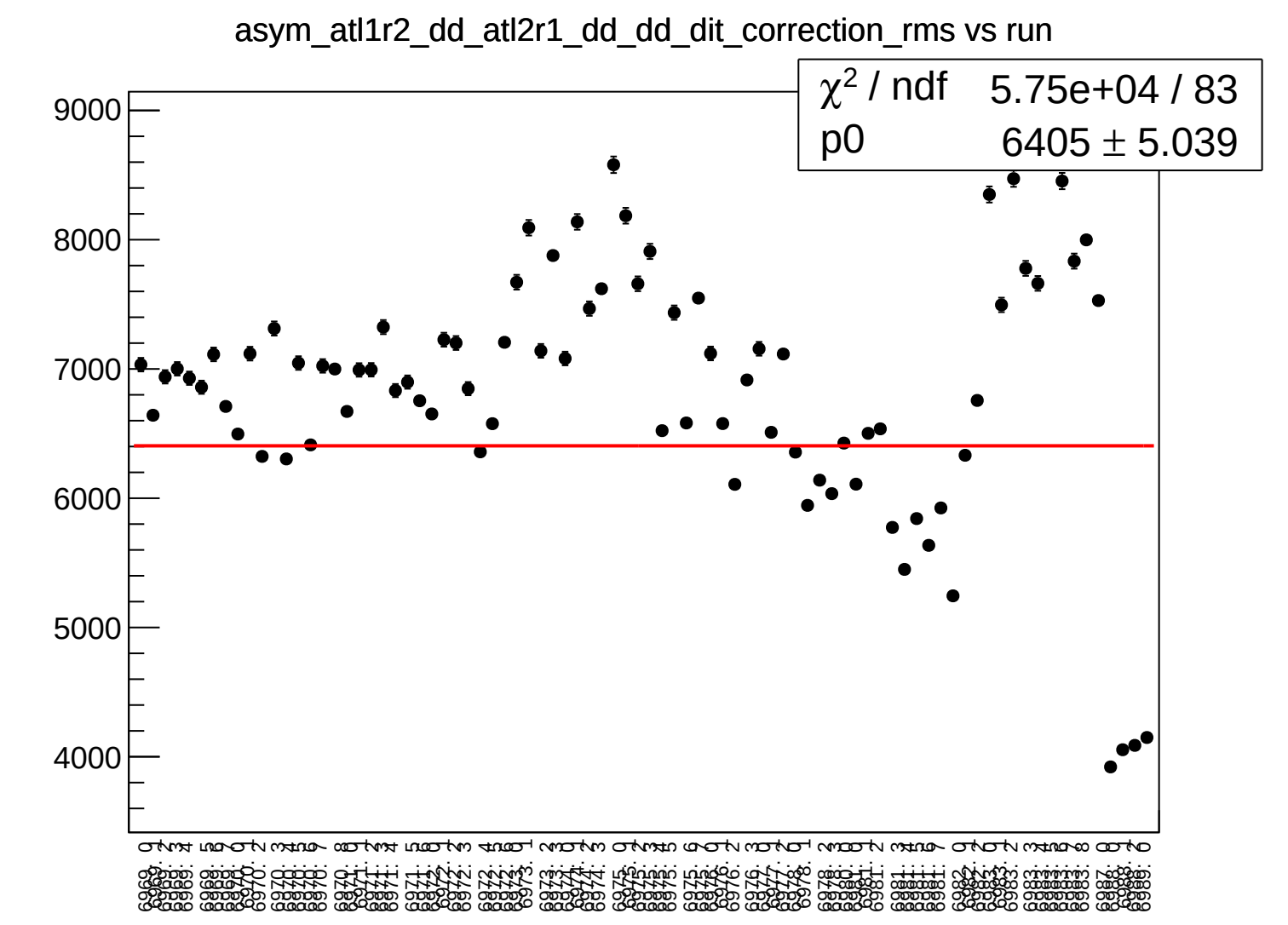

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 98.21 / 83
p0 2413 ± 1474
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −458.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

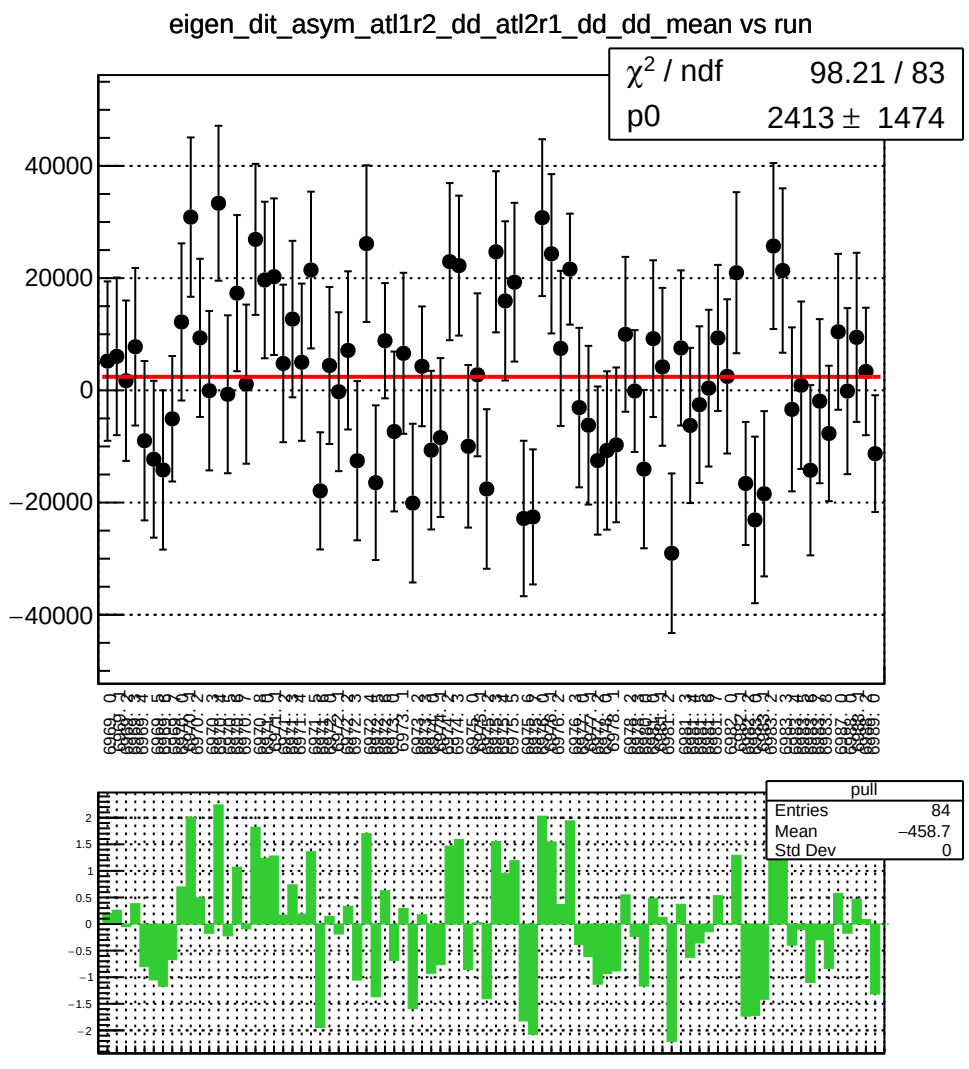

pull1D
Entries 84
Mean 0.009175
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

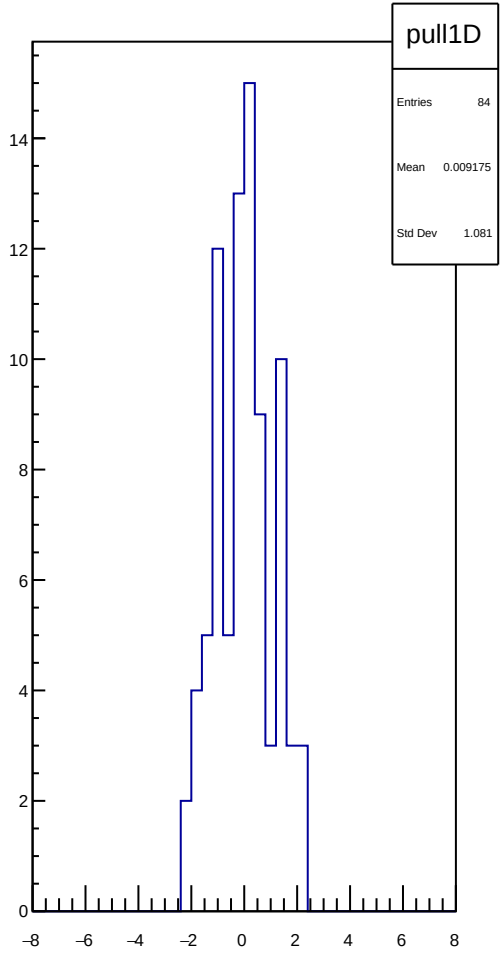

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1086 / 83
p0 1348 ± 1.042
1500
1450
1400
1350
1300

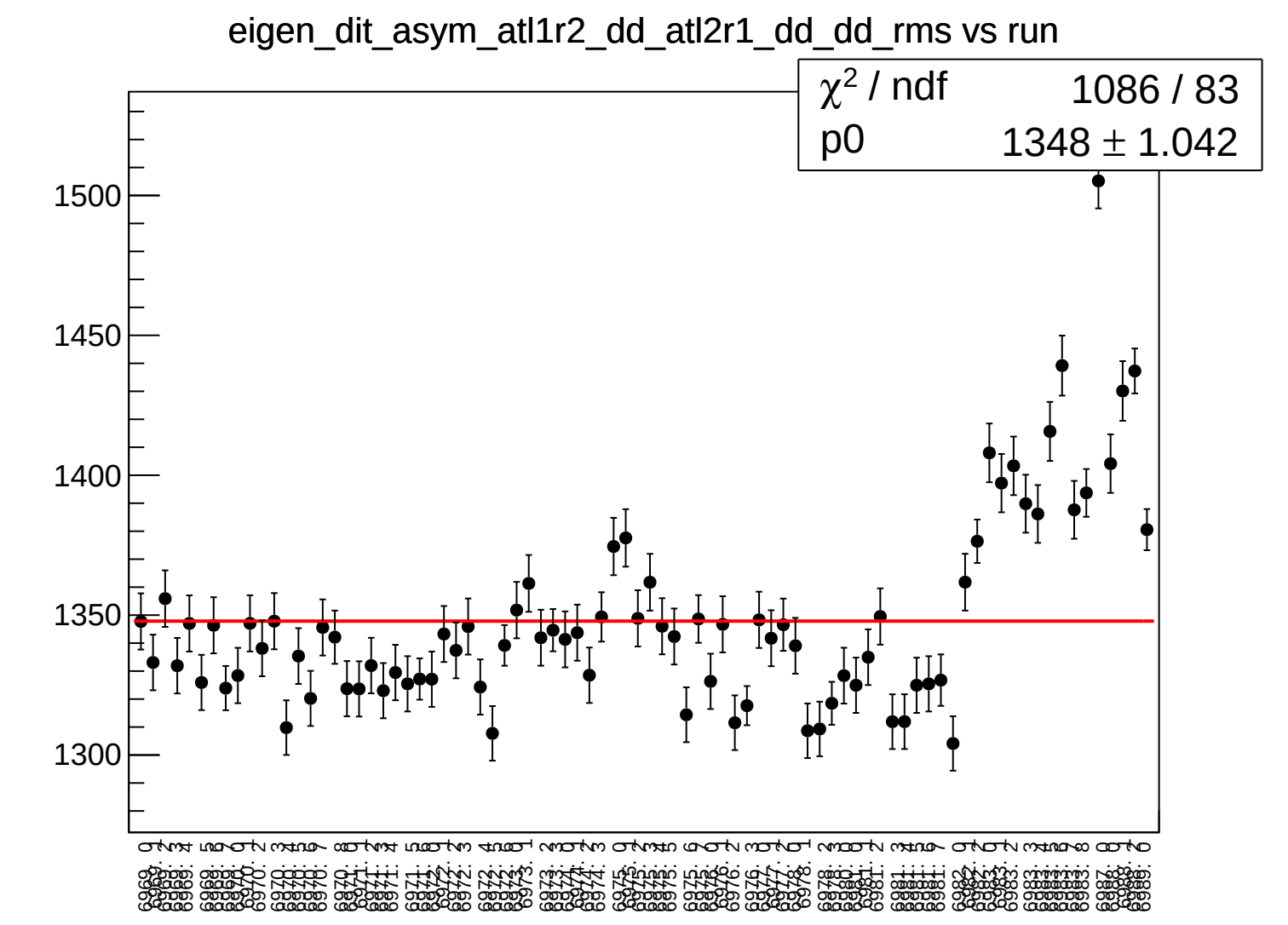

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 108.7 / 83
p0 8939 ± 7126
pull
Entries 84
Mean −42.05
Std Dev 0

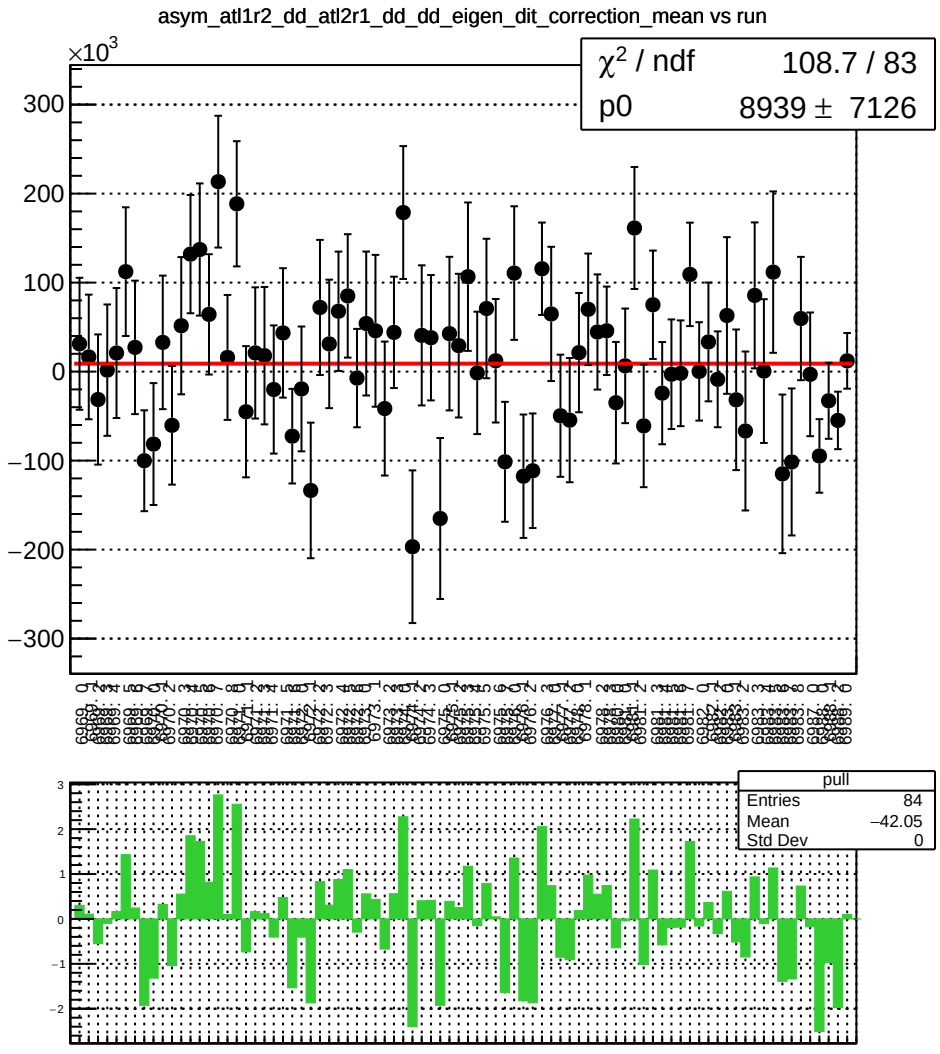

pull1D
Entries 84
Mean 0.05067
Std Dev 1.136

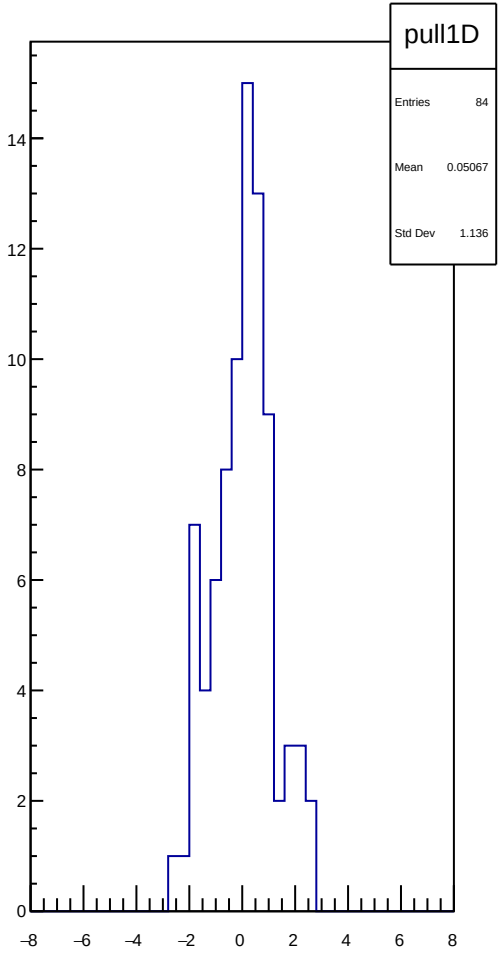

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 5.75e+04 / 83
p0 6405 ± 5.039
9000
8000
7000
6000
5000
4000

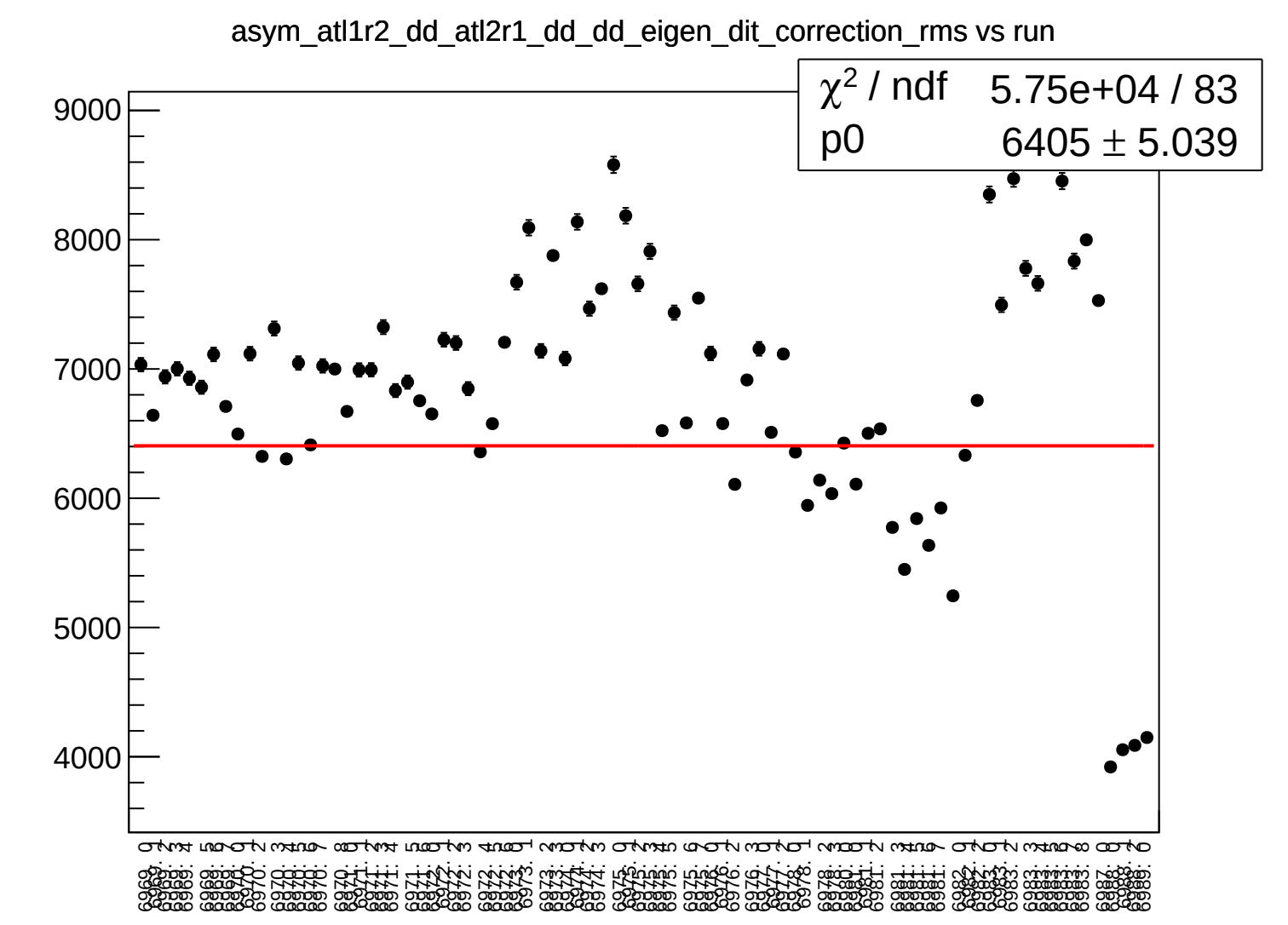

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 98.21 / 83
p0 2413 ± 1474
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −458.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

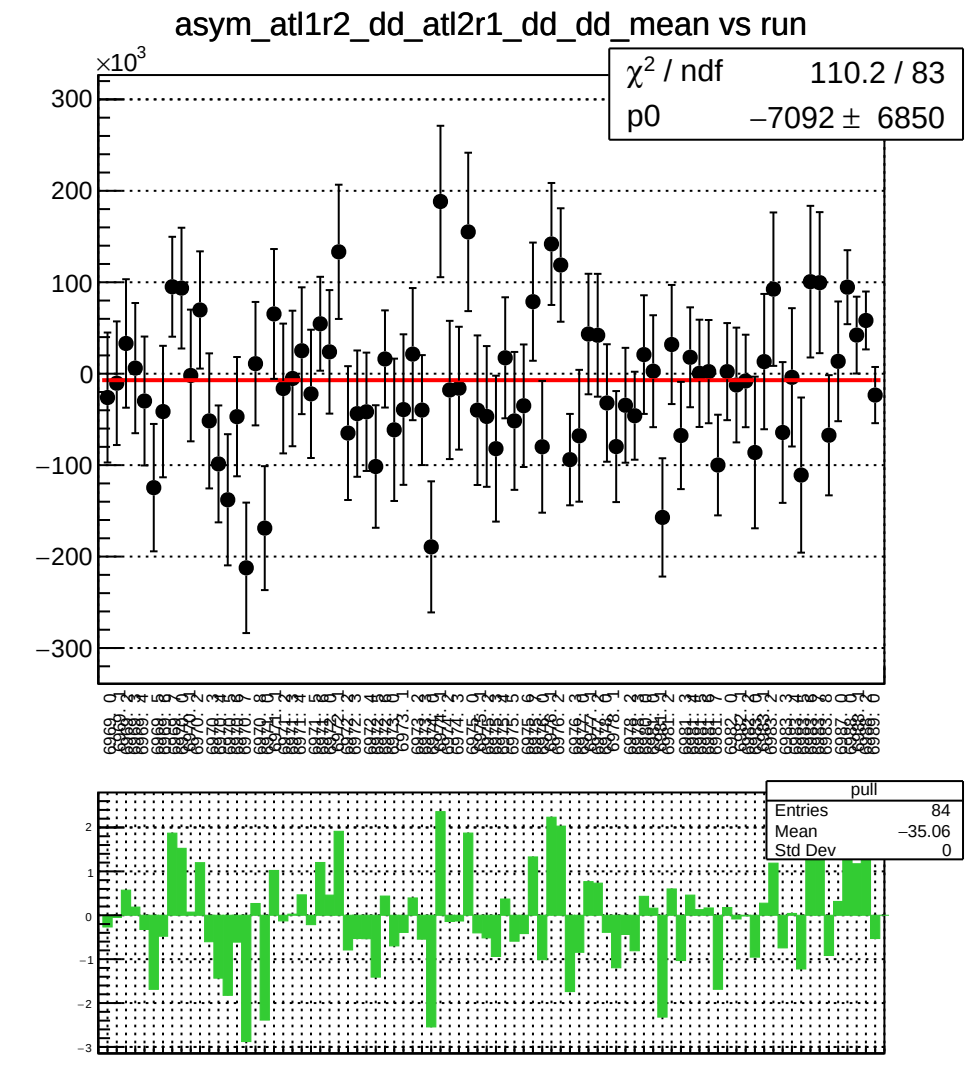

pull1D
Entries 84
Mean 0.009175
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

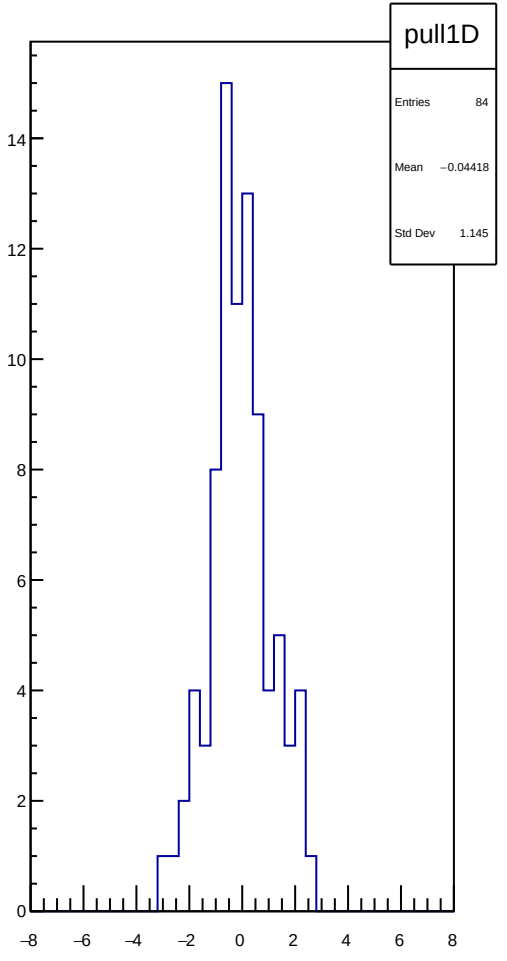

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1086 / 83
p0 1348 ± 1.042
1500
1450
1400
1350
1300

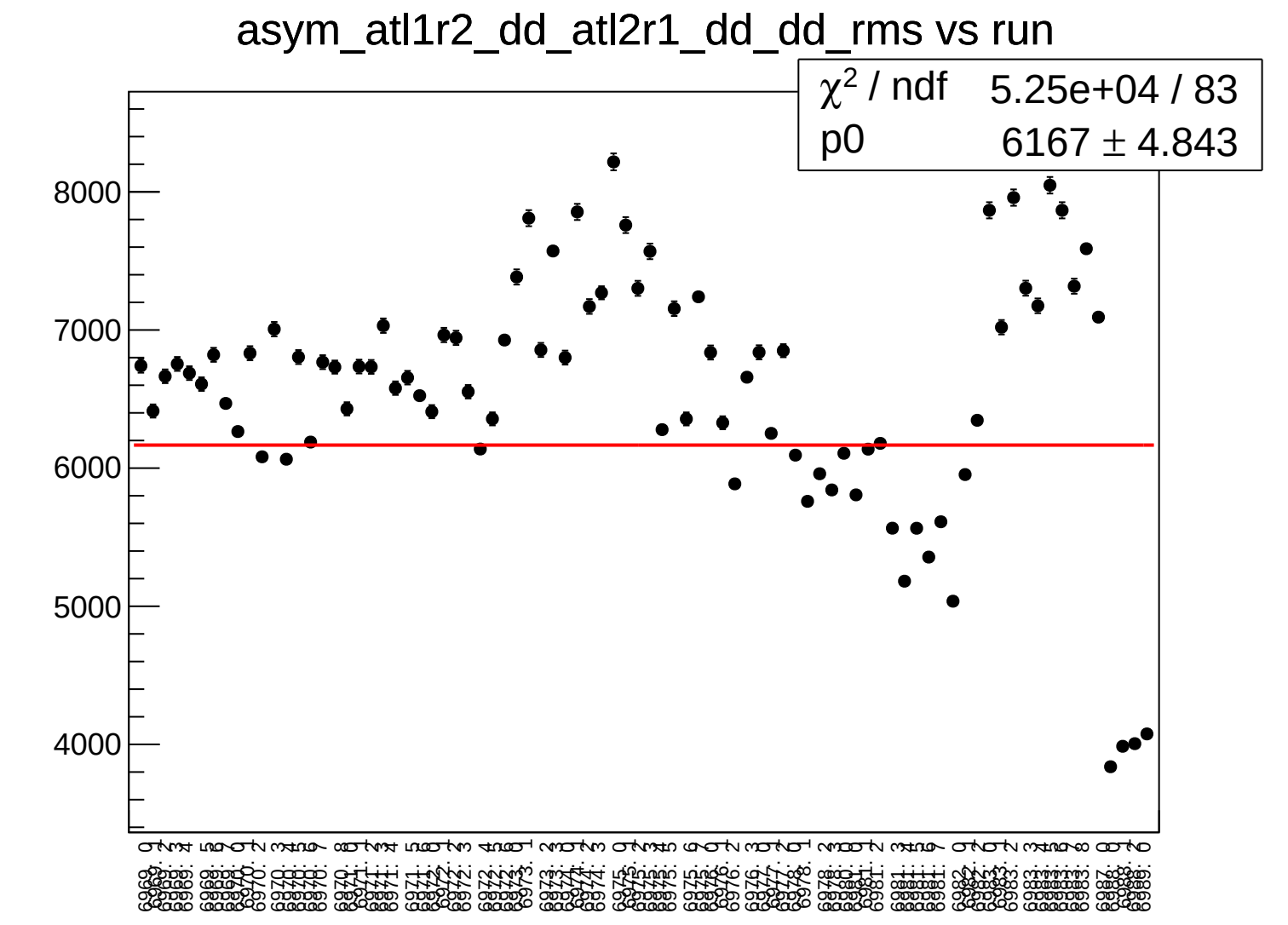

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 108.7 / 83
p0 8939 ± 7126
pull
Entries 84
Mean −42.05
Std Dev 0

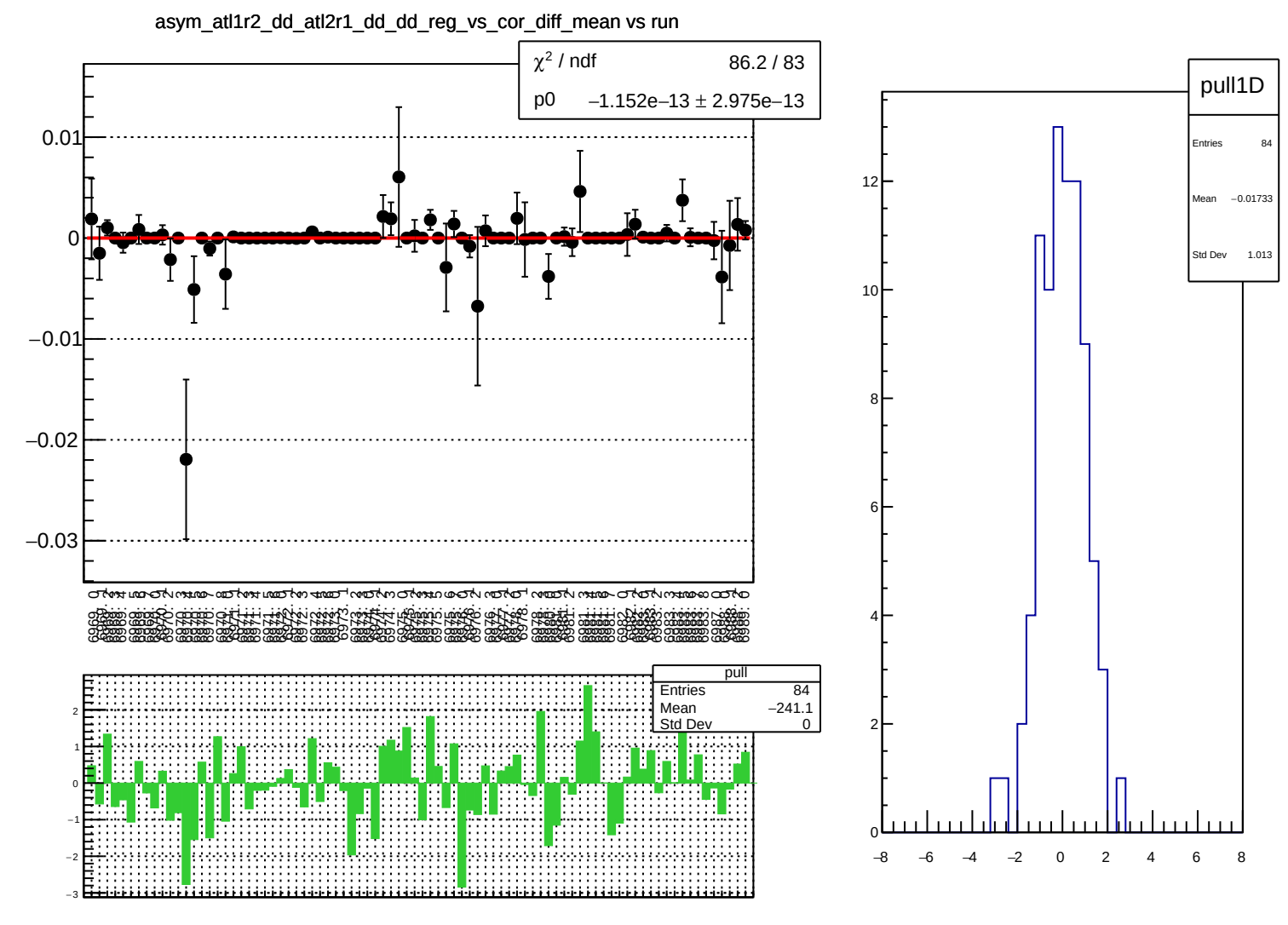

pull1D
Entries 84
Mean 0.05067
Std Dev 1.136

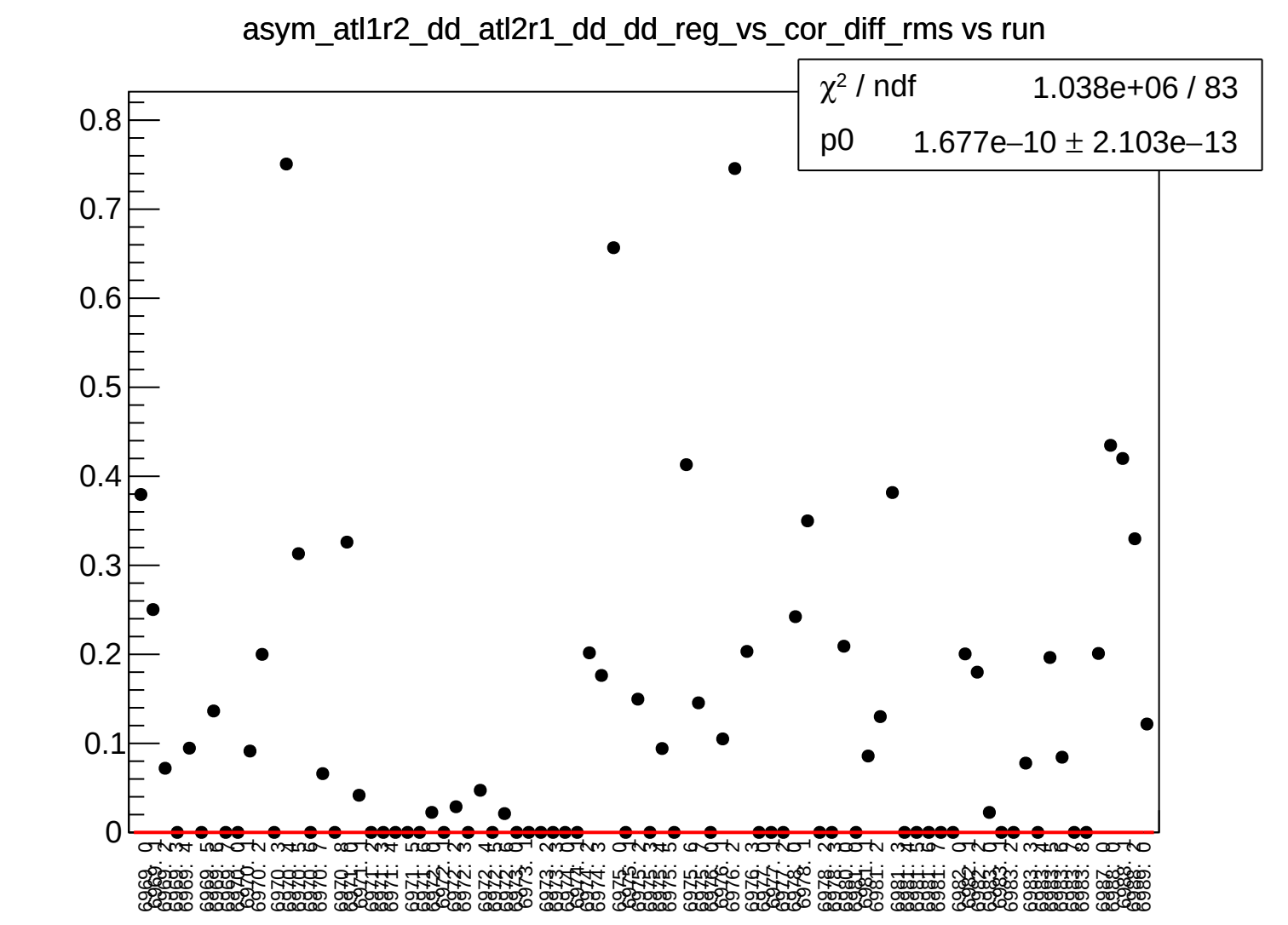

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.75e+04 / 83
p0 6405 ± 5.039
9000
8000
7000
6000
5000
4000

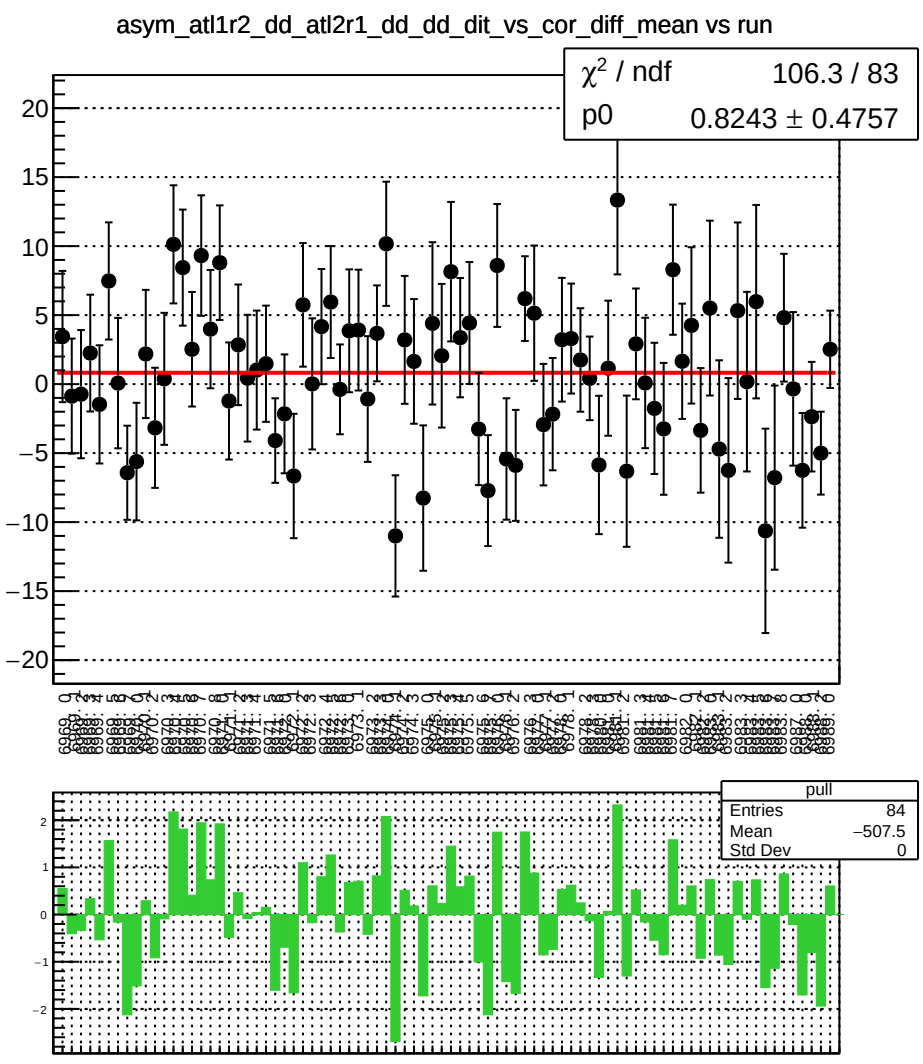

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 110.2 / 83
p0 −7092 ± 6850
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −35.06
Std Dev 0
2
1
0
−1
−2
−3

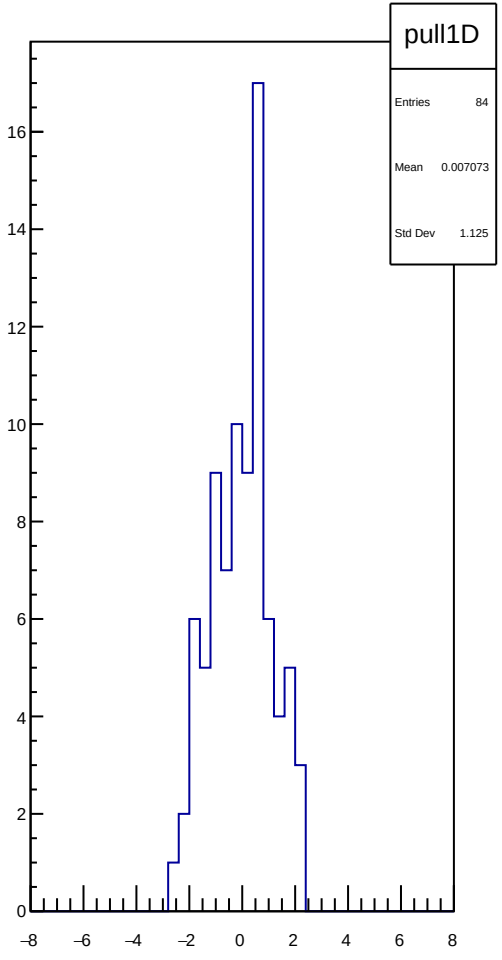

pull1D
Entries 84
Mean −0.04418
Std Dev 1.145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

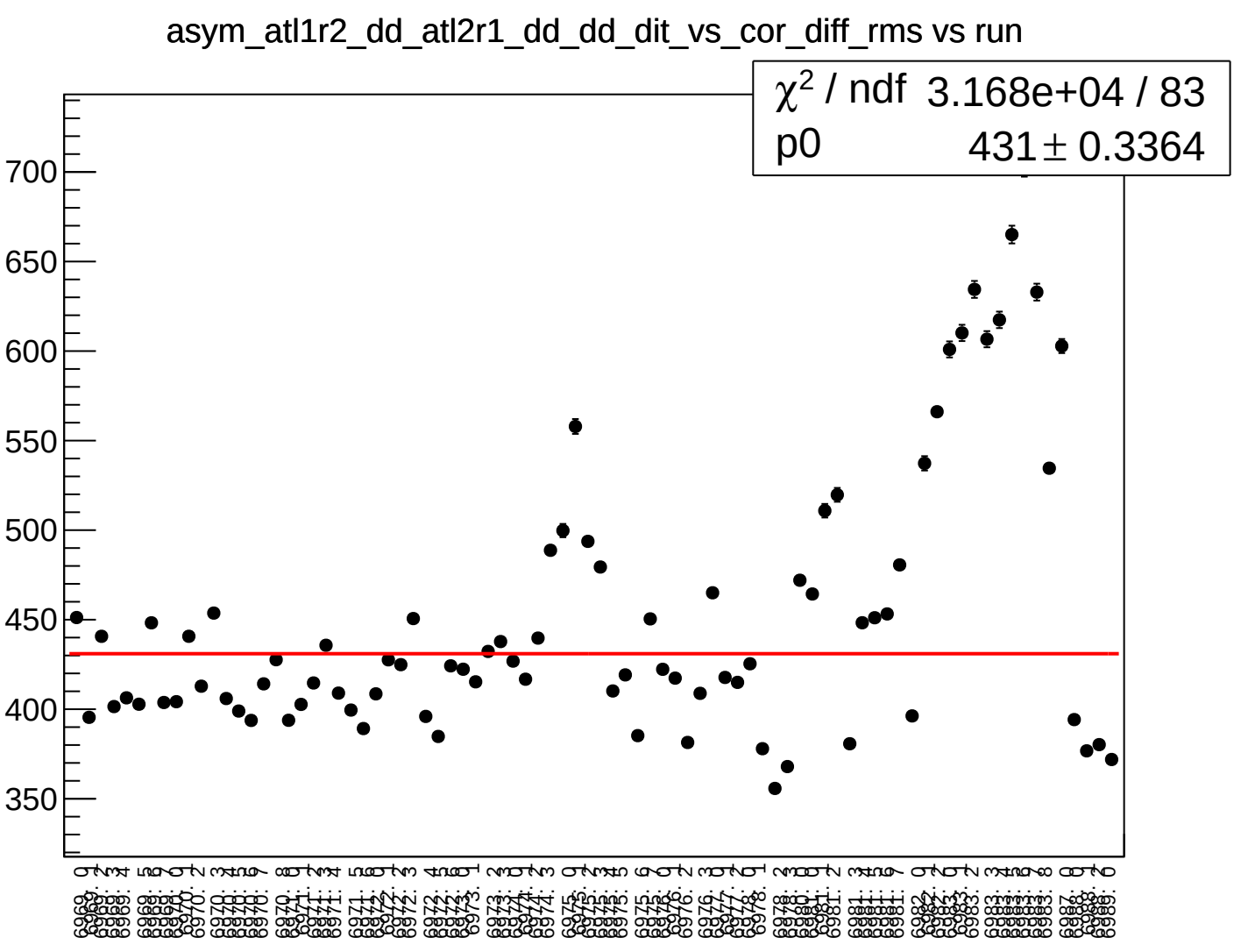

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 5.25e+04 / 83
p0 6167 ± 4.843
8000
7000
6000
5000
4000

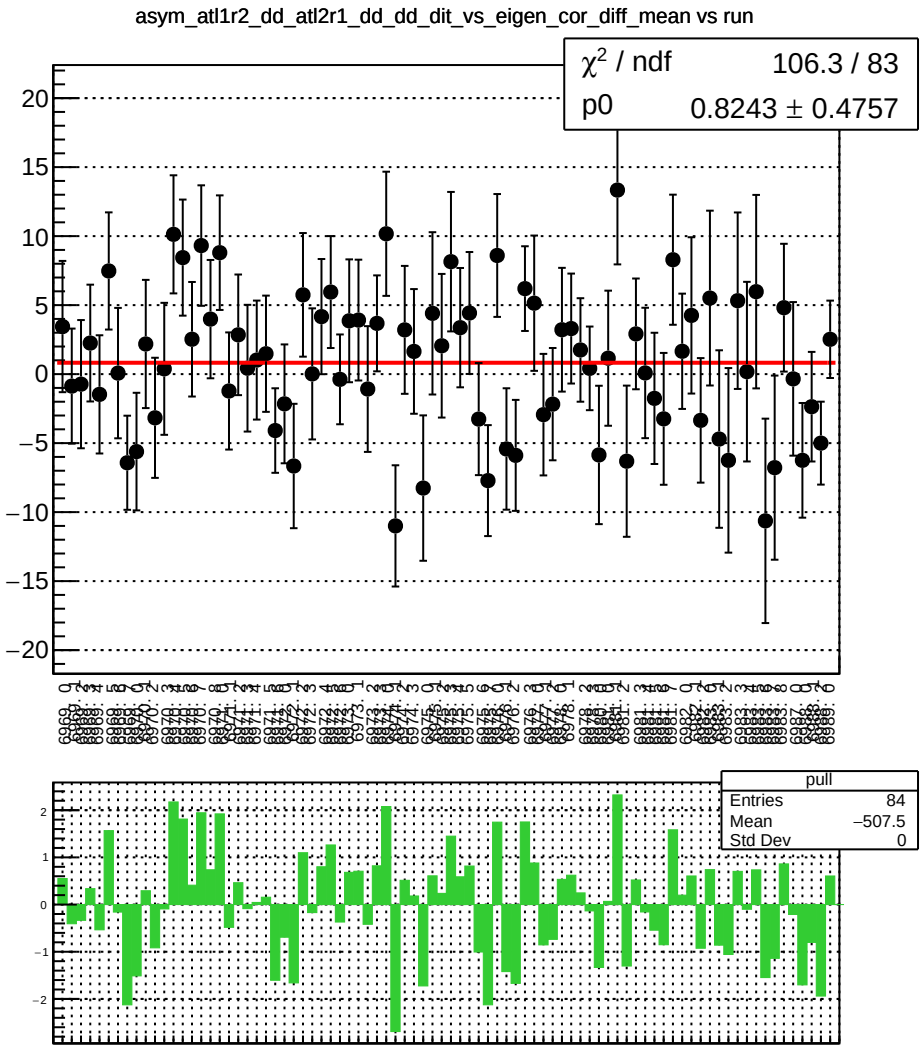

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.2 / 83
p0 −1.152e−13 ± 2.975e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean −241.1
Std Dev 0
pull1D
Entries 84
Mean −0.01733
Std Dev 1.013

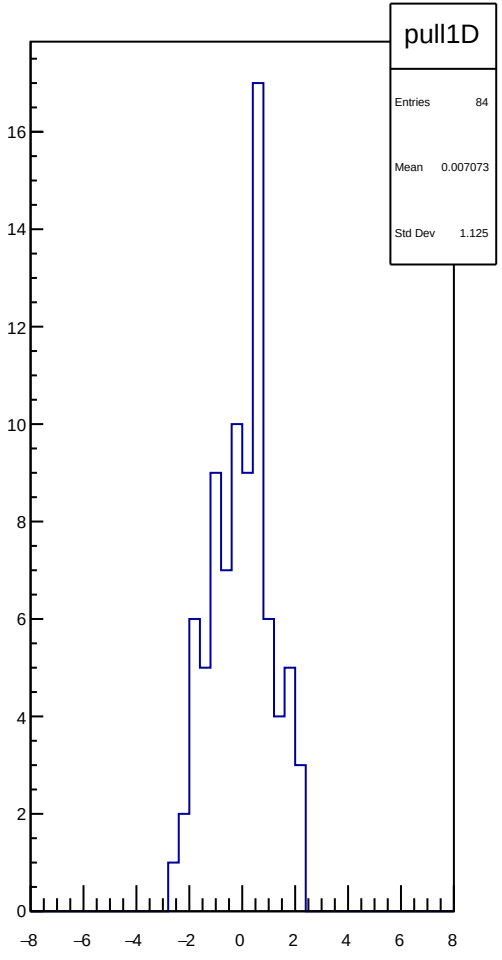

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.038e+06 / 83
p0 1.677e−10 ± 2.103e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

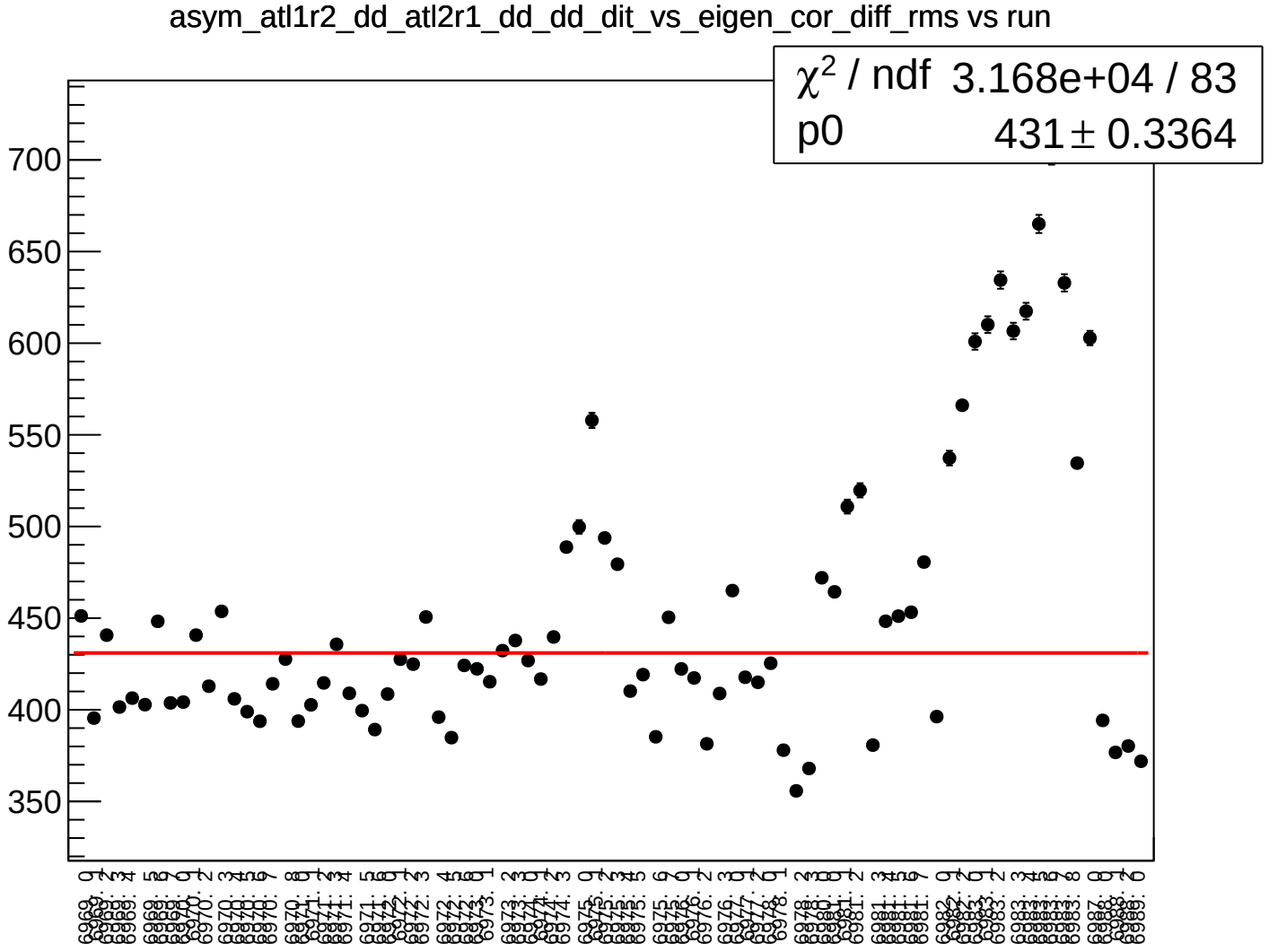

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 83
p0 0.8243 ± 0.4757
pull
Entries 84
Mean −507.5
Std Dev 0

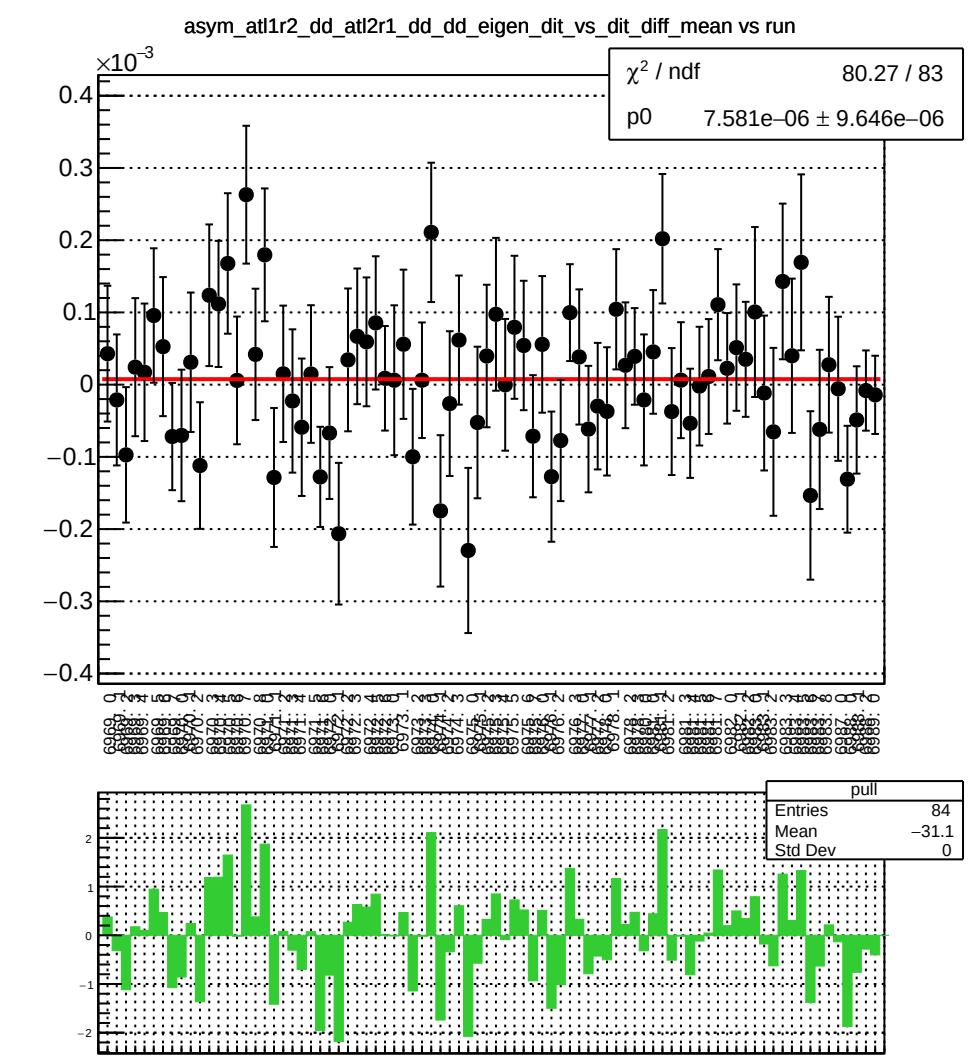

pull1D
Entries 84
Mean 0.007073
Std Dev 1.125

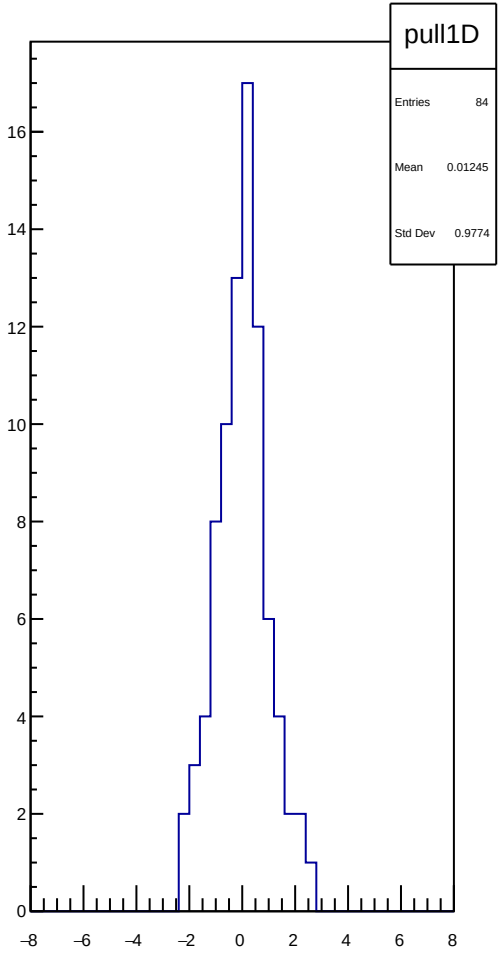

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.168e+04 / 83
p0 431 ± 0.3364
700
650
600
550
500
450
400
350

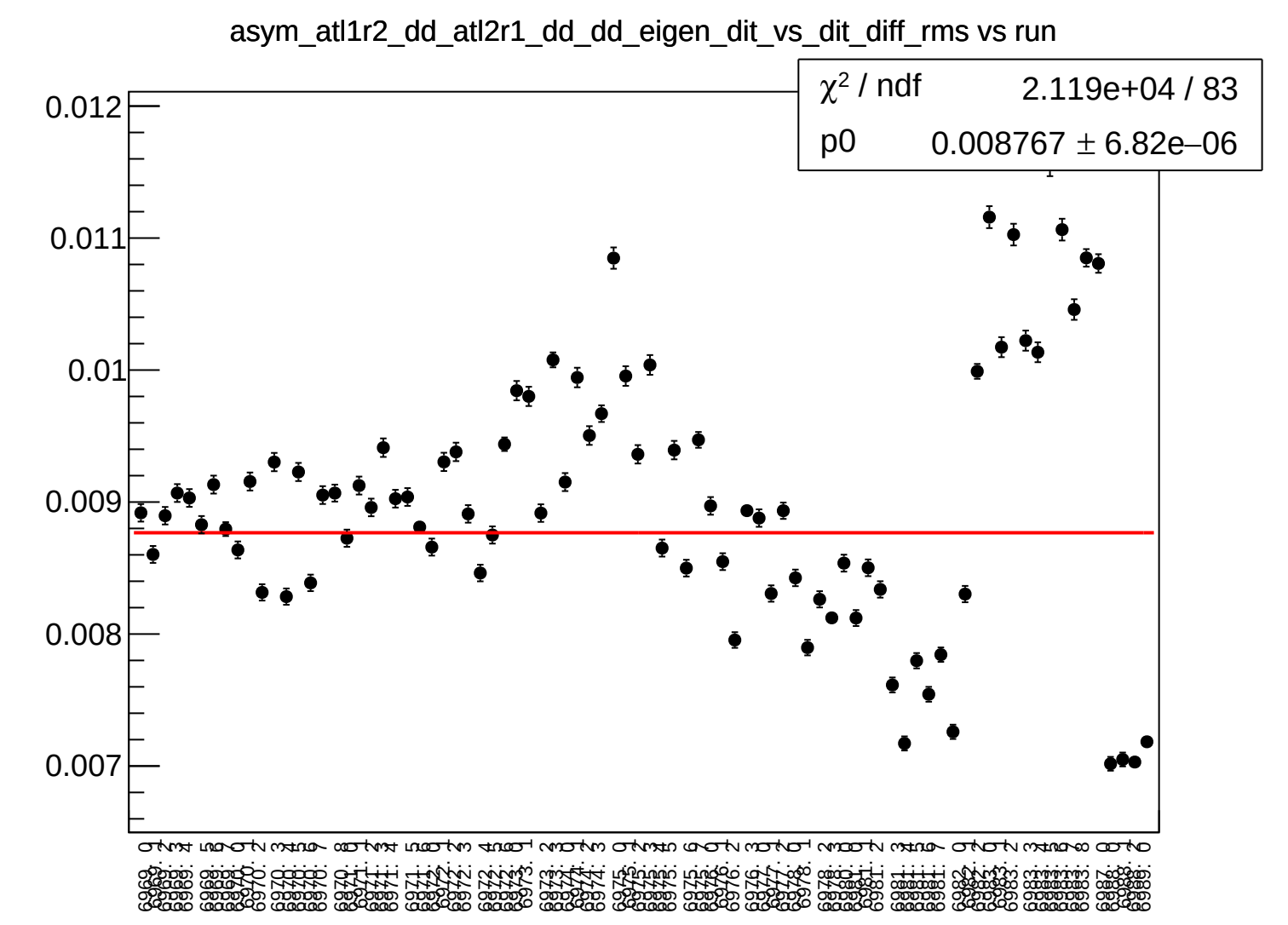

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 83
p0 0.8243 ± 0.4757
pull
Entries 84
Mean −507.5
Std Dev 0

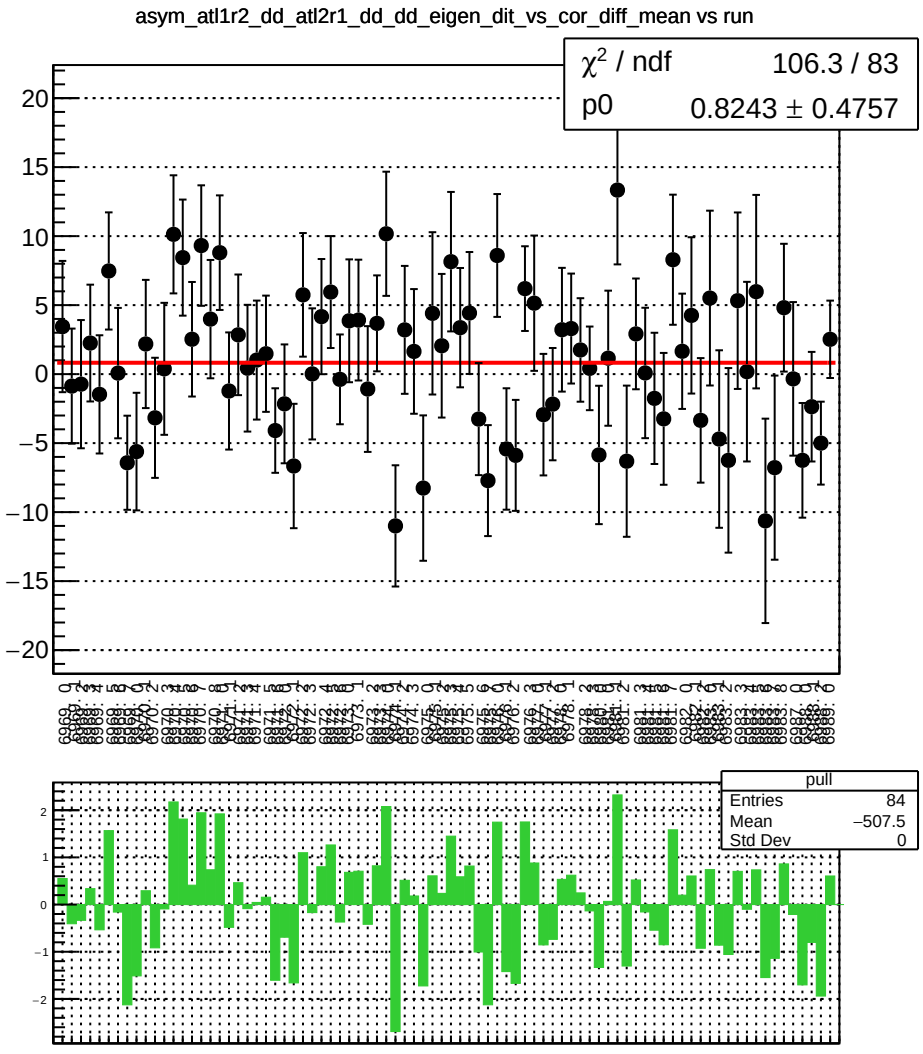

pull1D
Entries 84
Mean 0.007073
Std Dev 1.125

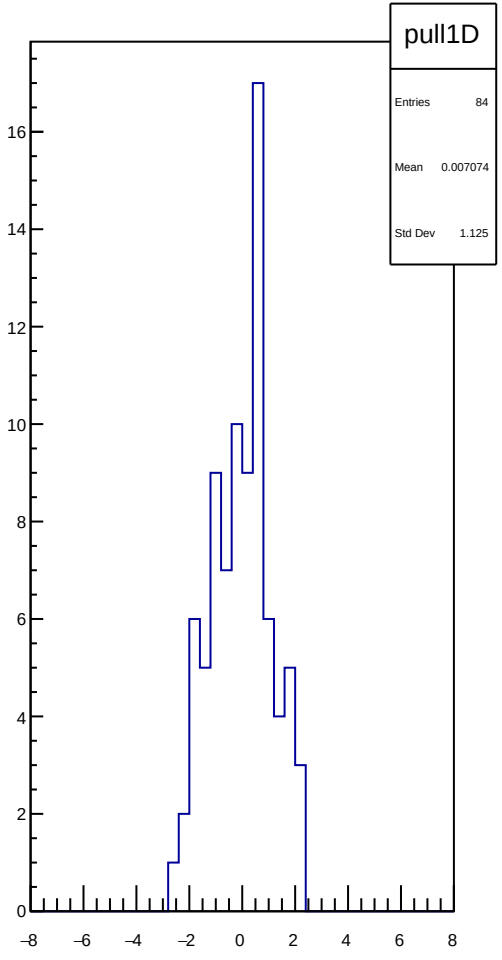

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.168e+04 / 83
p0 431 ± 0.3364
700
650
600
550
500
450
400
350

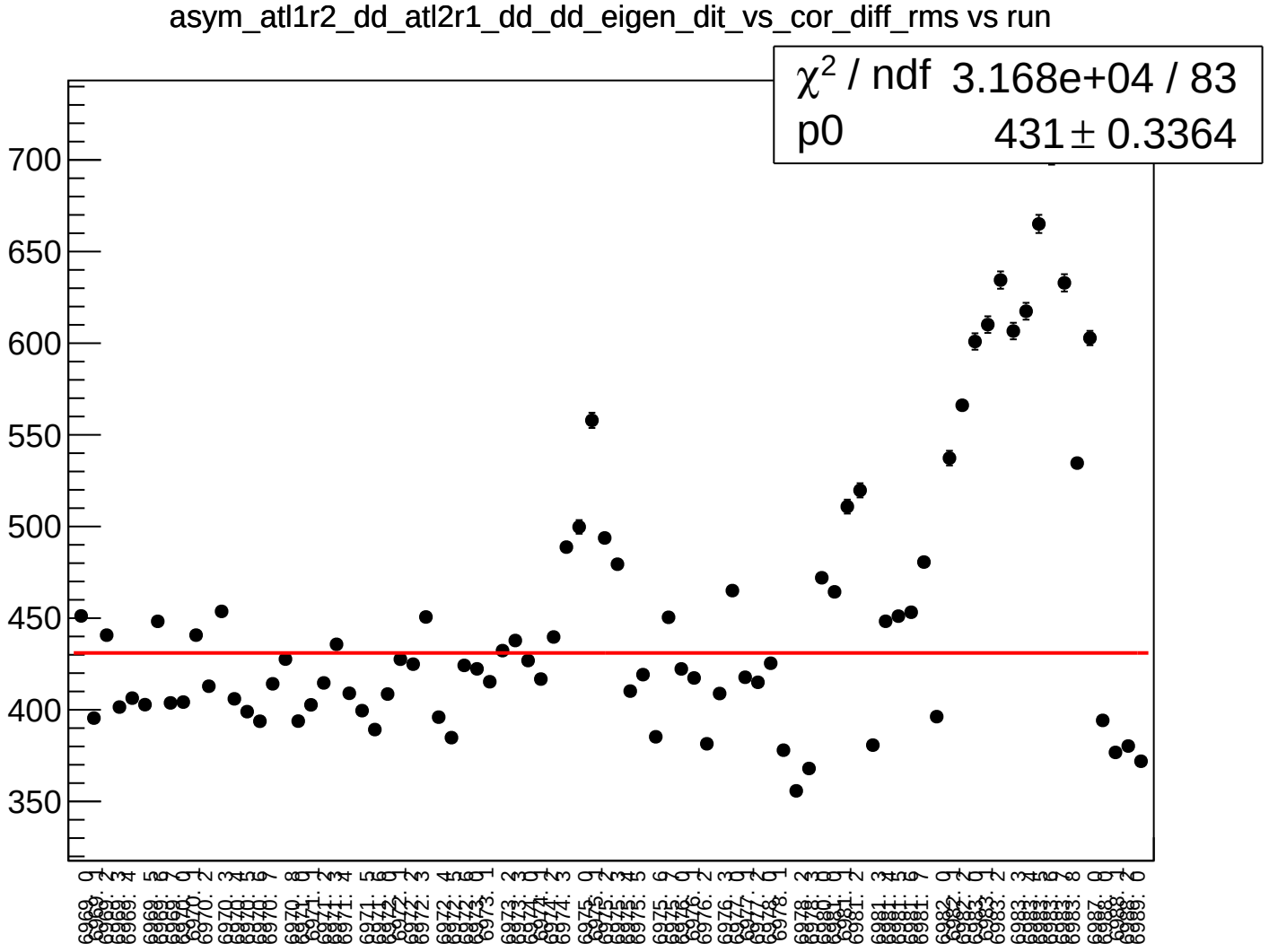

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 80.27 / 83
p0 7.581e−06 ± 9.646e−06
pull
Entries 84
Mean −31.1
Std Dev 0

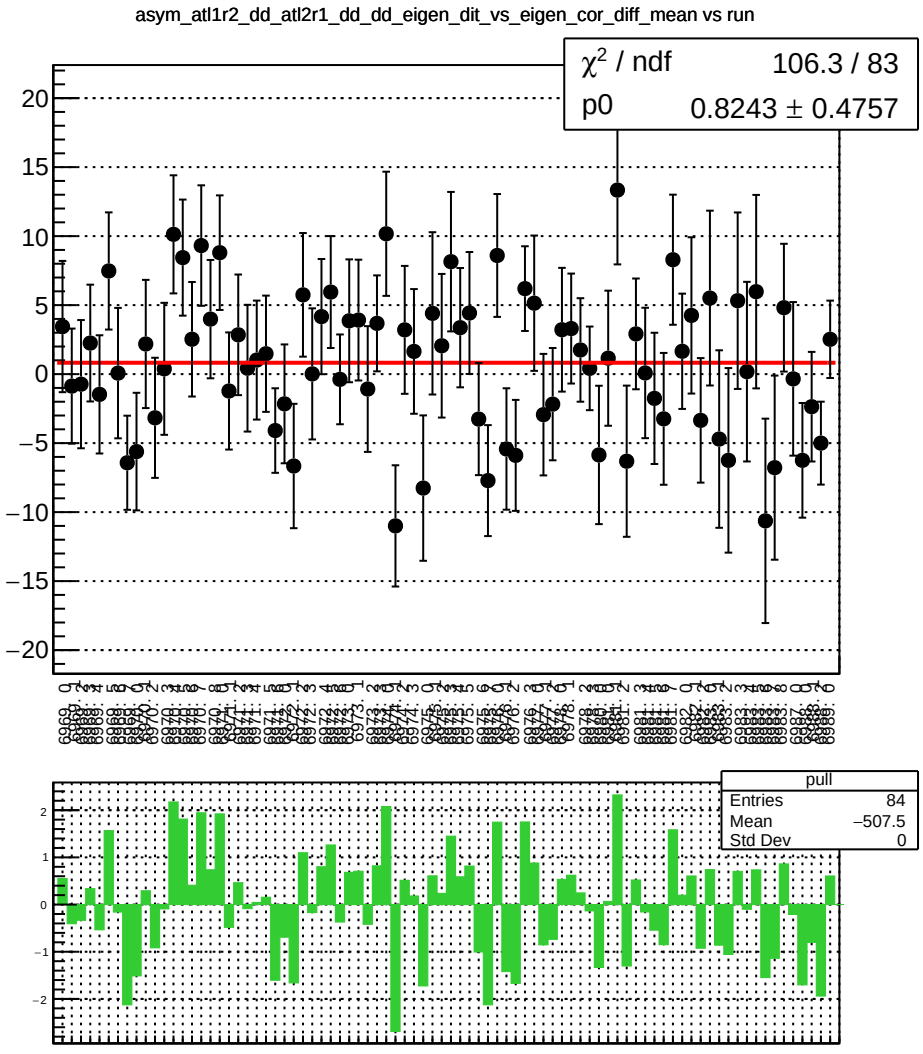

pull1D
Entries 84
Mean 0.01245
Std Dev 0.9774

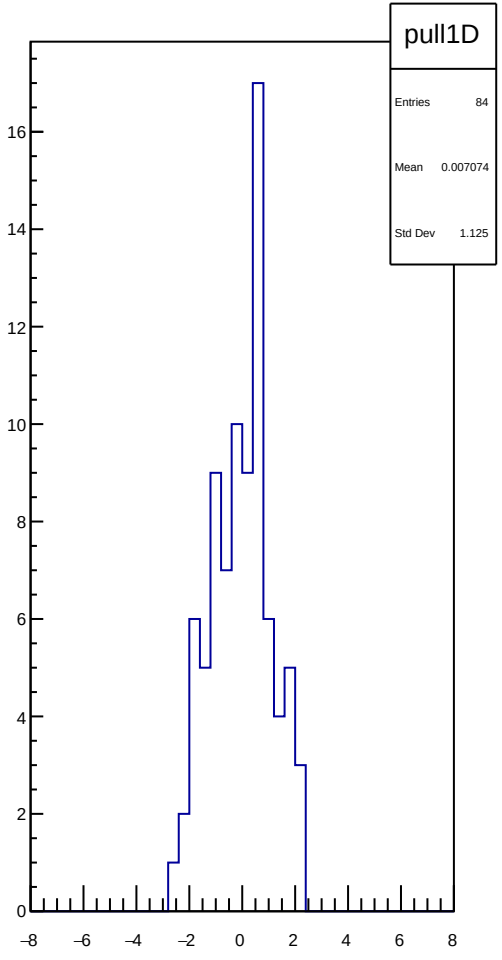

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.119e+04 / 83
p0 0.008767 ± 6.82e−06
0.012
0.011
0.01
0.009
0.008
0.007

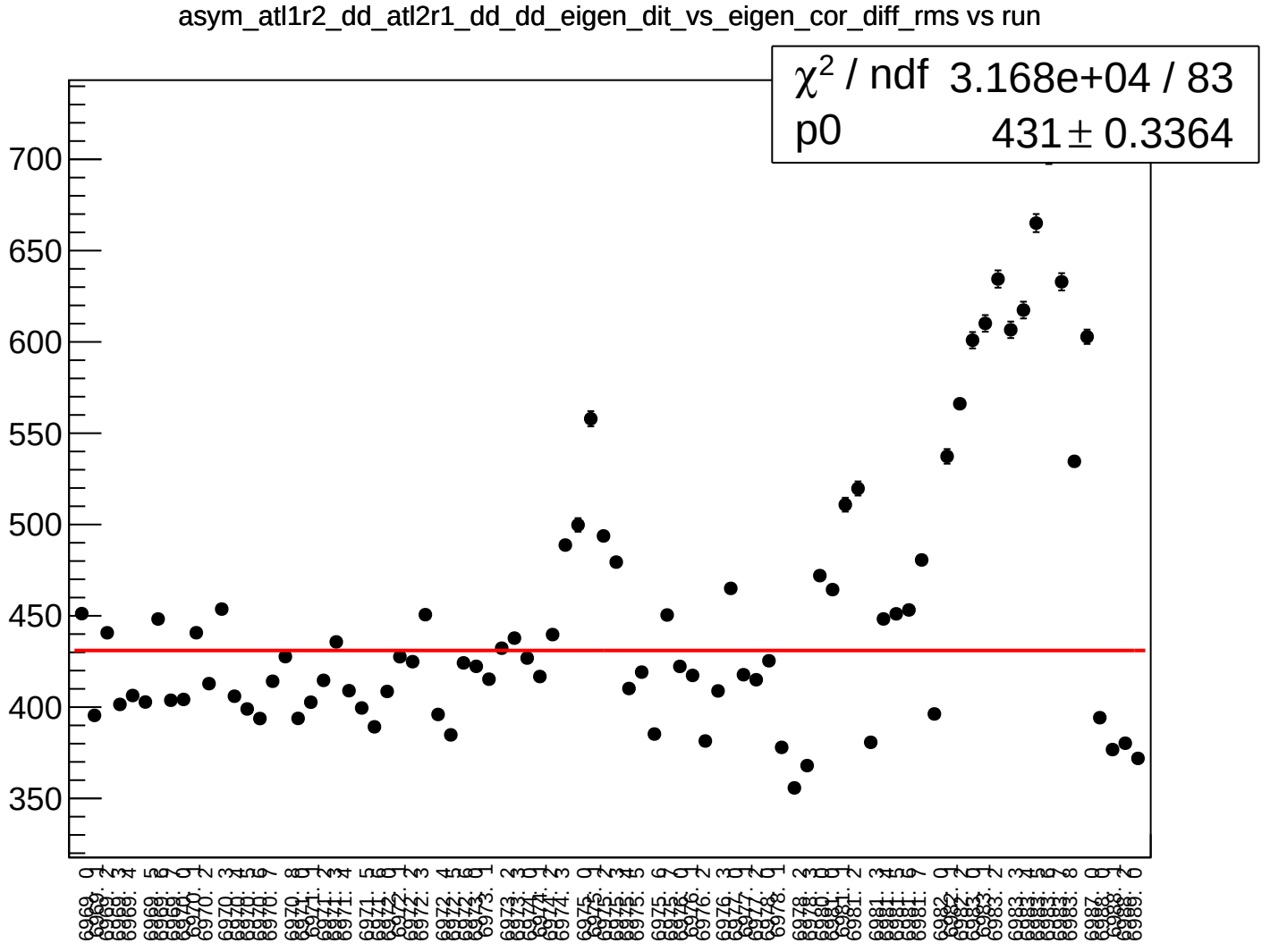

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 83
p0 0.8243 ± 0.4757
pull
Entries 84
Mean −507.5
Std Dev 0

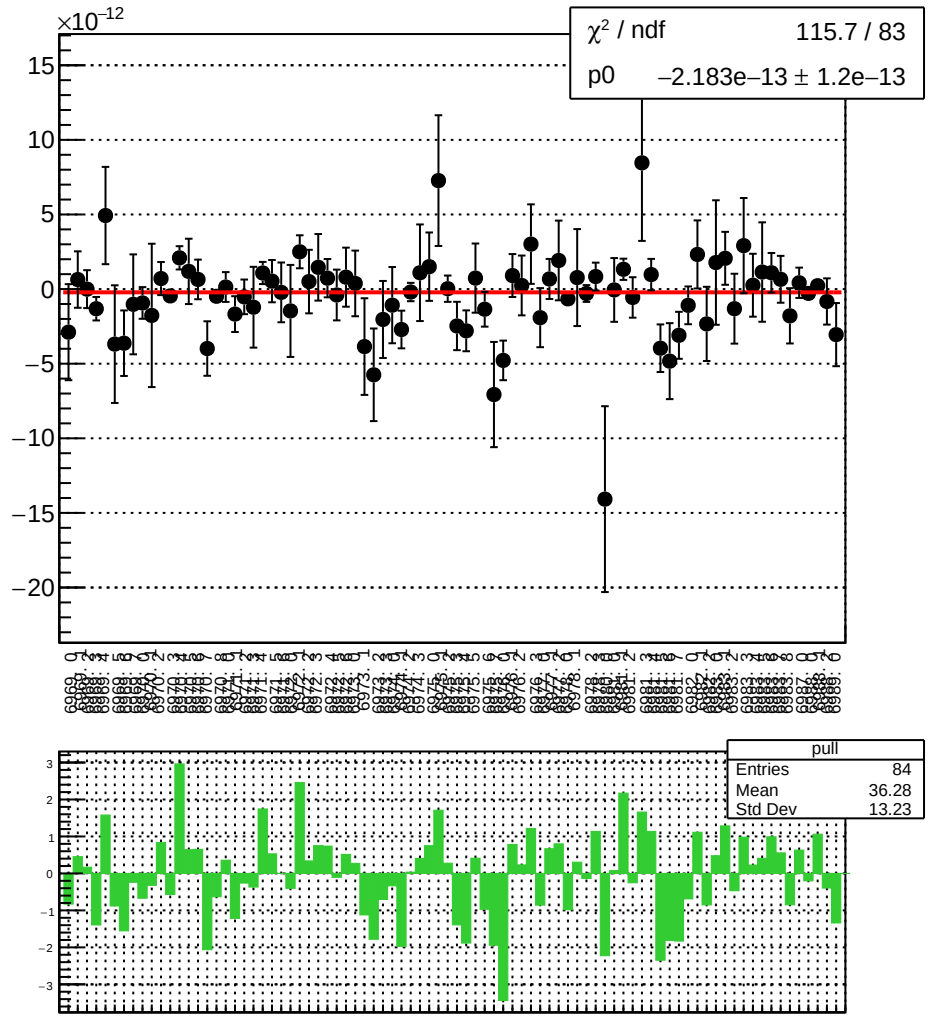

pull1D
Entries 84
Mean 0.007074
Std Dev 1.125

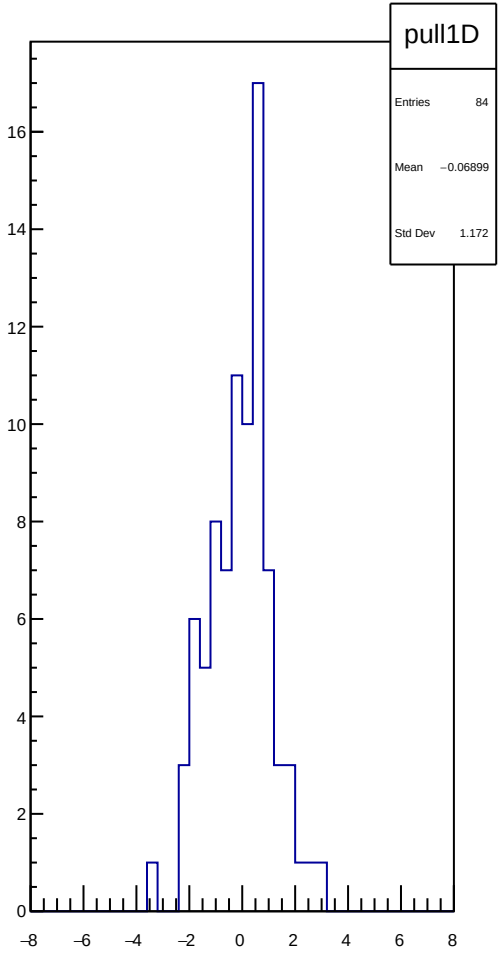

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.168e+04 / 83
p0 431 ± 0.3364
700
650
600
550
500
450
400
350

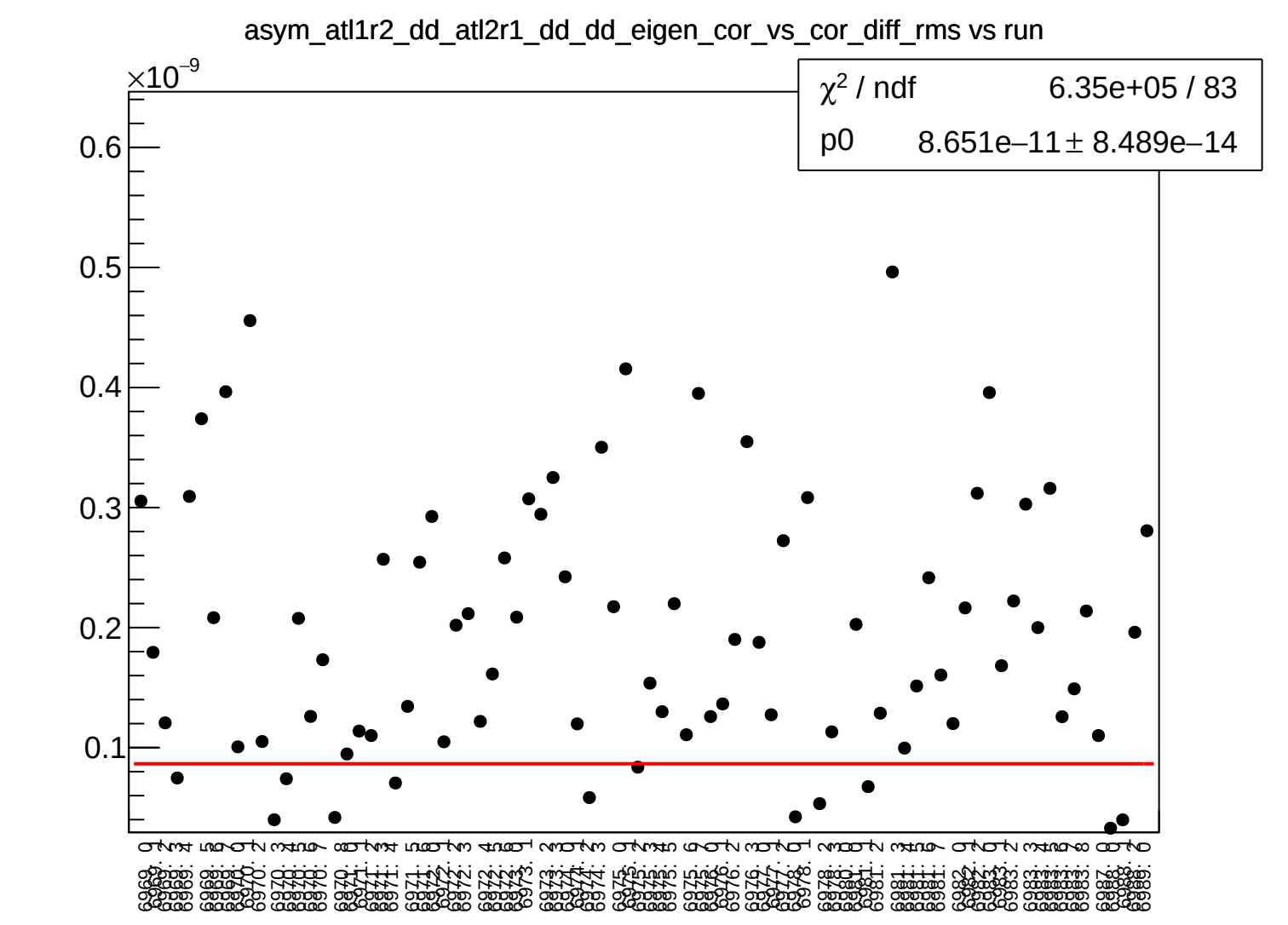

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 83
p0 0.8243 ± 0.4757
pull
Entries 84
Mean −507.5
Std Dev 0

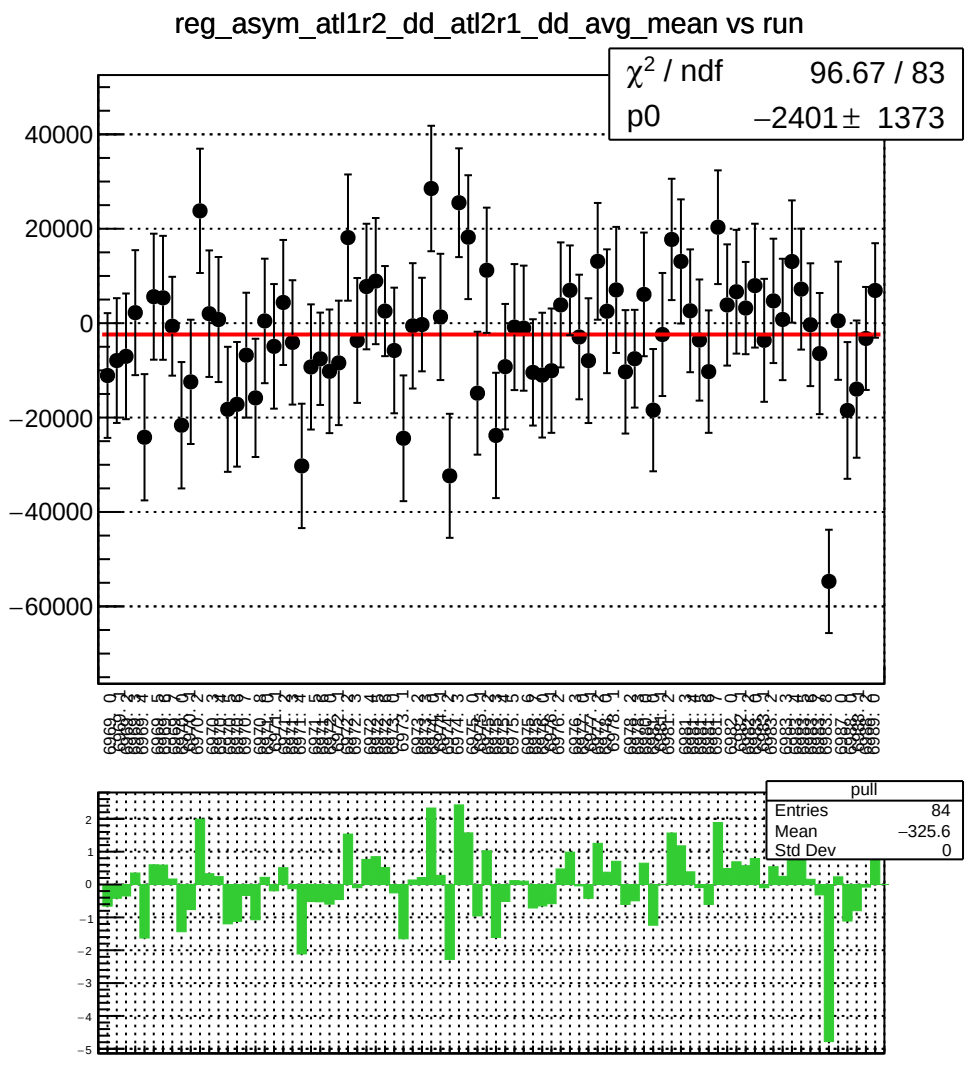

pull1D
Entries 84
Mean 0.007074
Std Dev 1.125

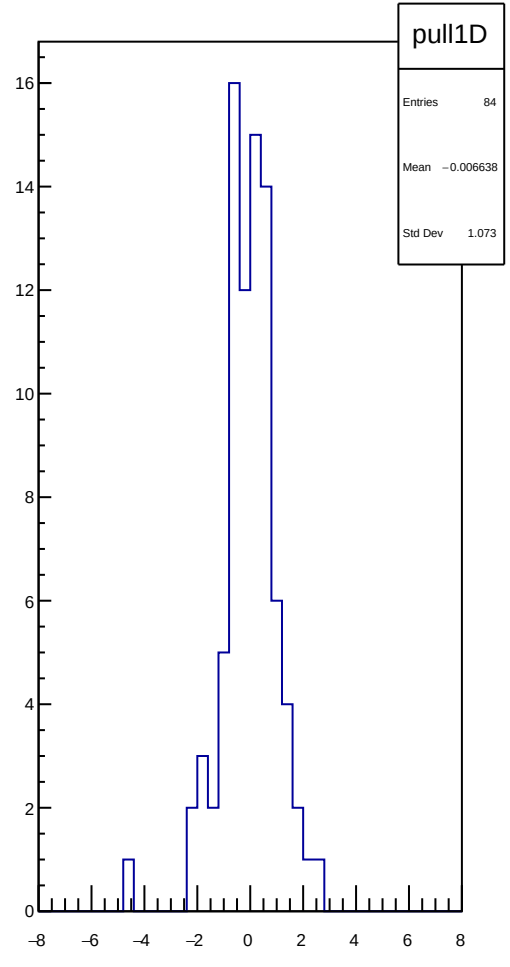

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.168e+04 / 83
p0 431 ± 0.3364
700
650
600
550
500
450
400
350

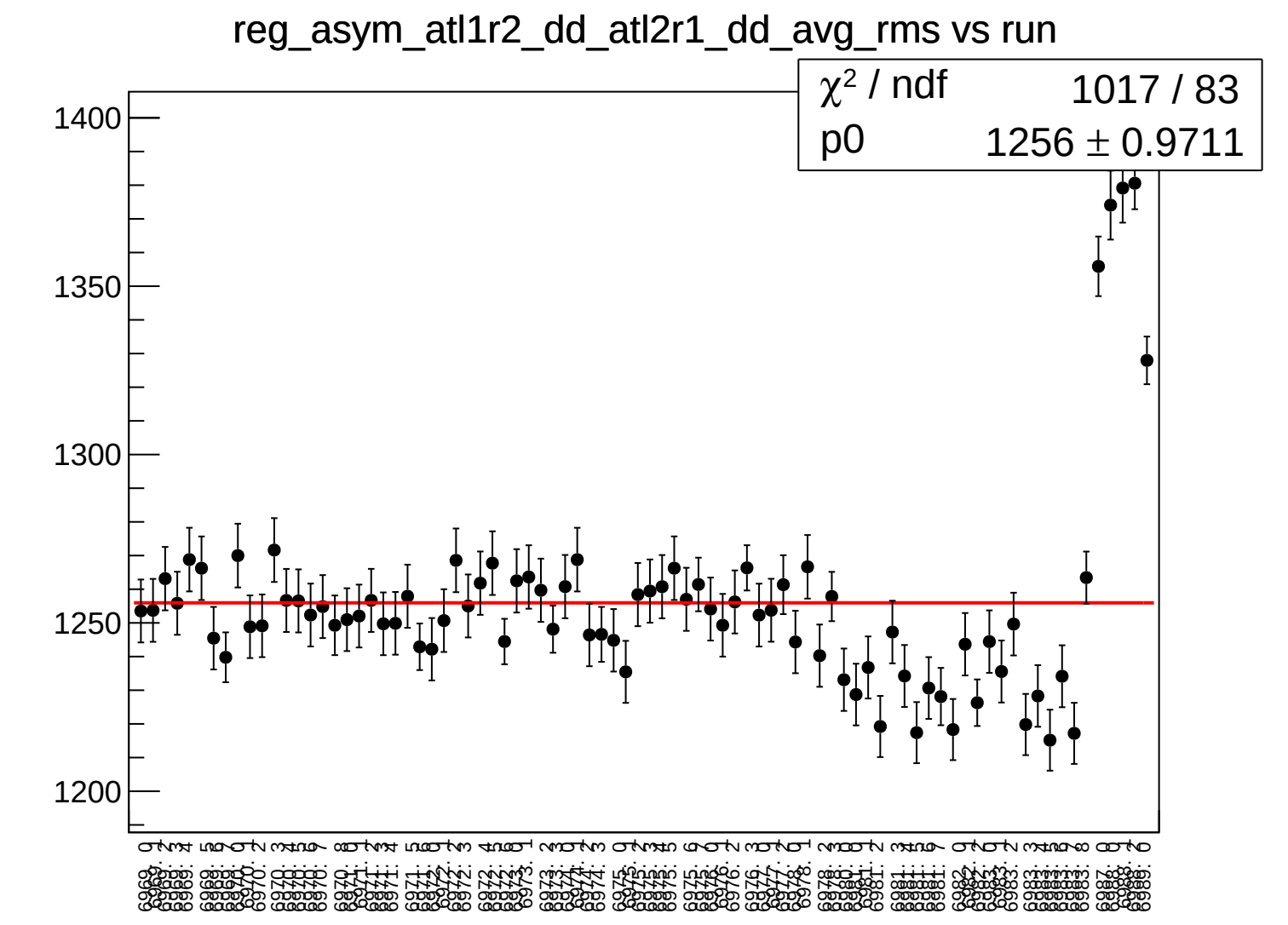

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.7 / 83
p0 −2.183e−13 ± 1.2e−13
pull
Entries 84
Mean 36.28
Std Dev 13.23

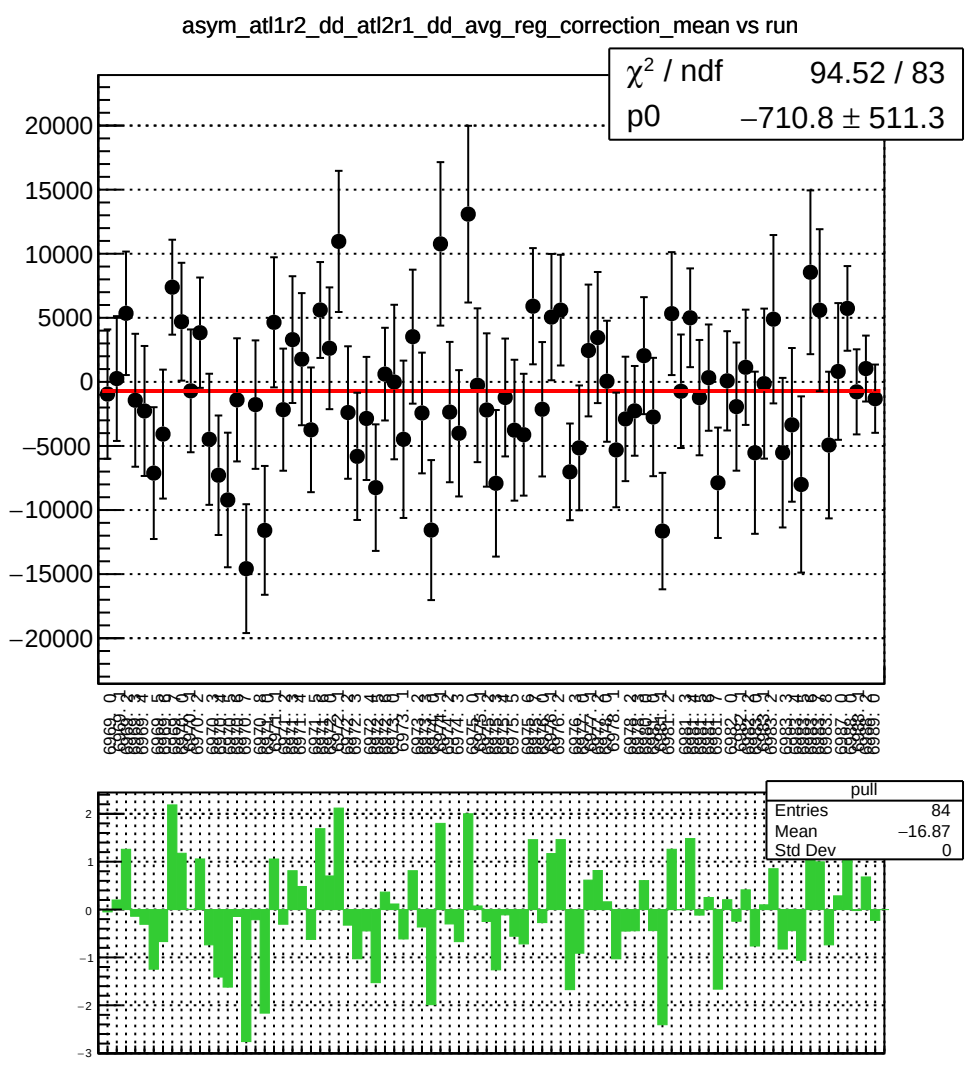

pull1D
Entries 84
Mean −0.06899
Std Dev 1.172

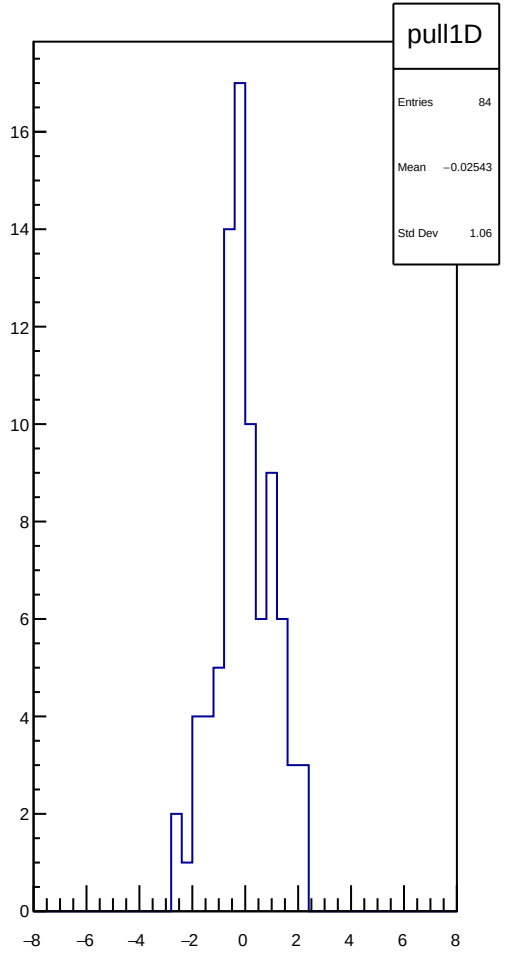

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.35e+05 / 83
p0 8.651e−11 ± 8.489e−14
0.6
0.5
0.4
0.3
0.2
0.1

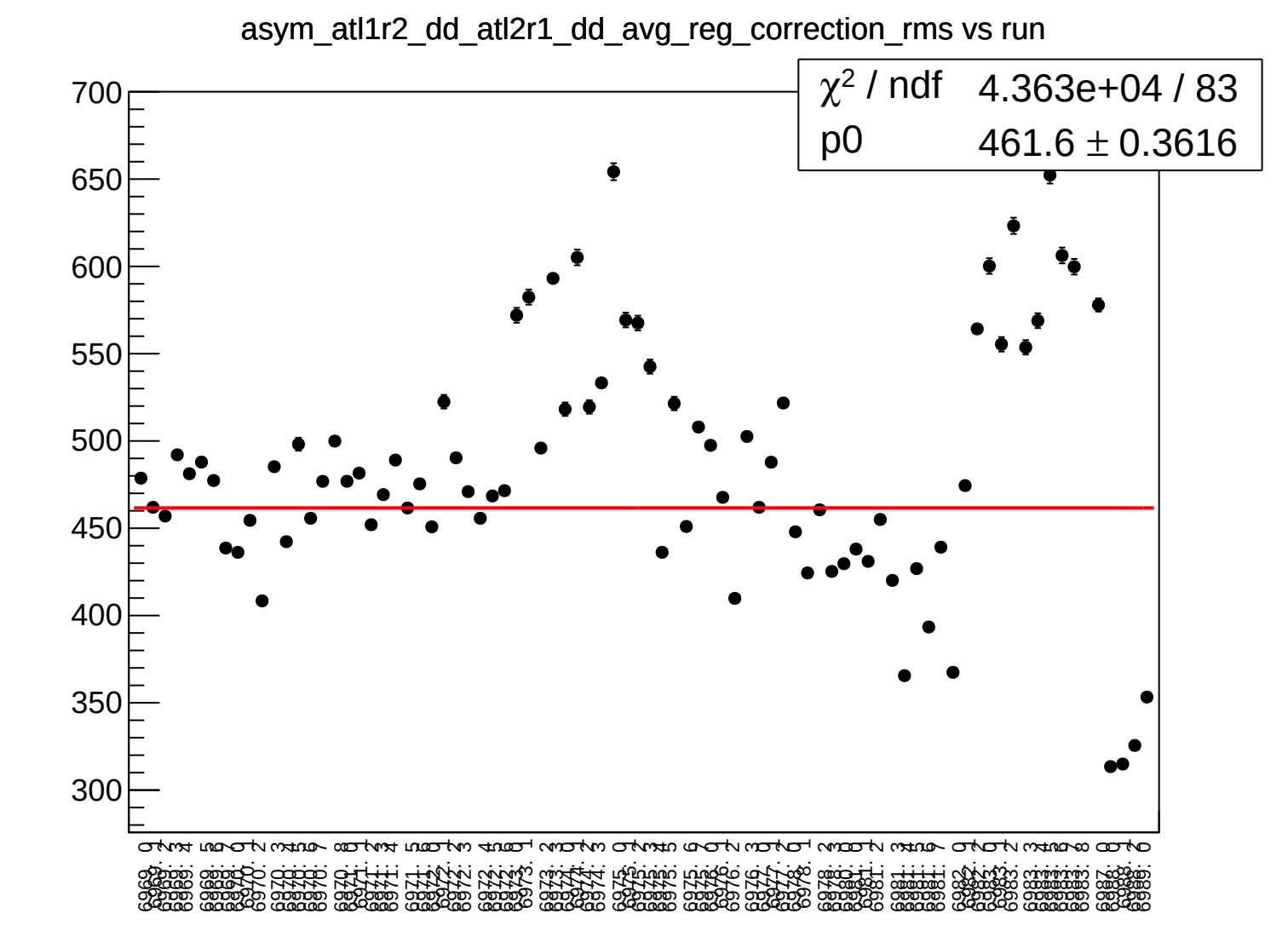

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.67 / 83
p0 −2401 ± 1373
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −325.6
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

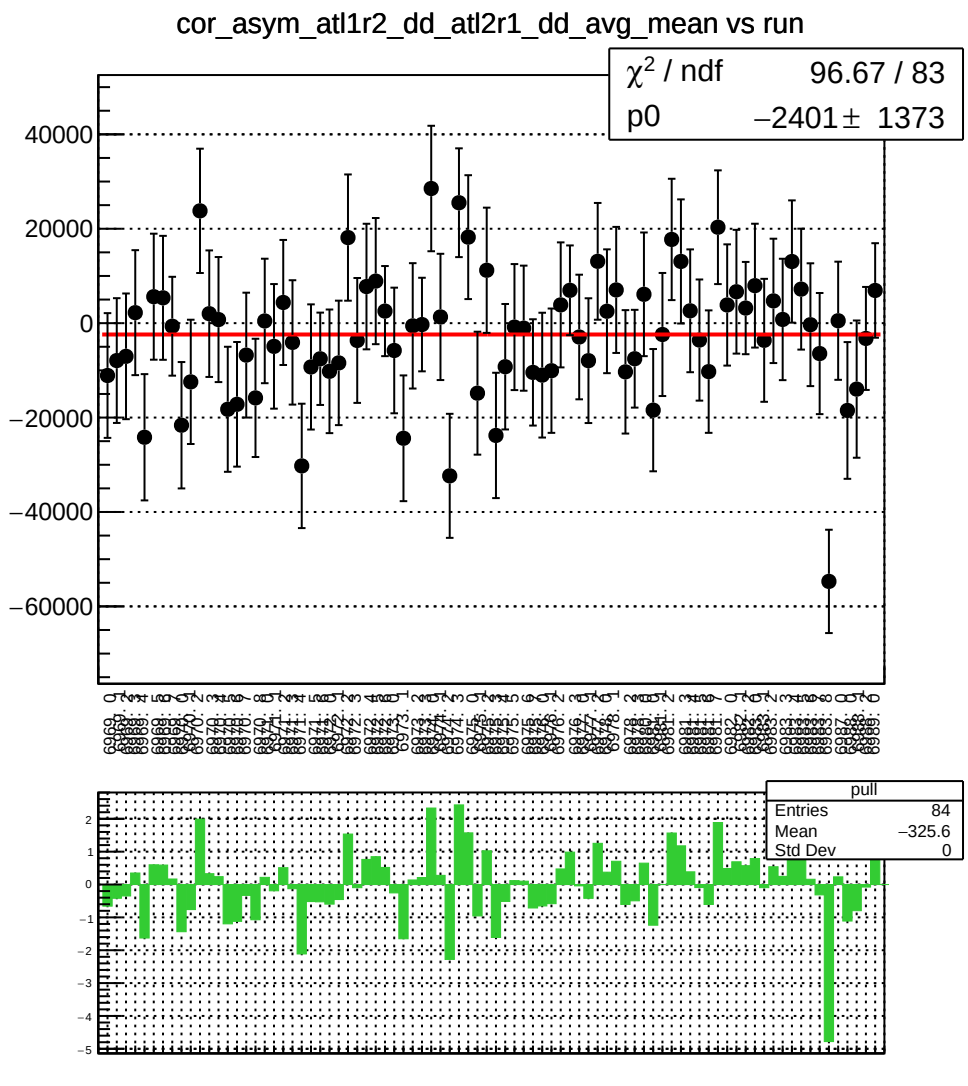

pull1D
Entries 84
Mean −0.006638
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

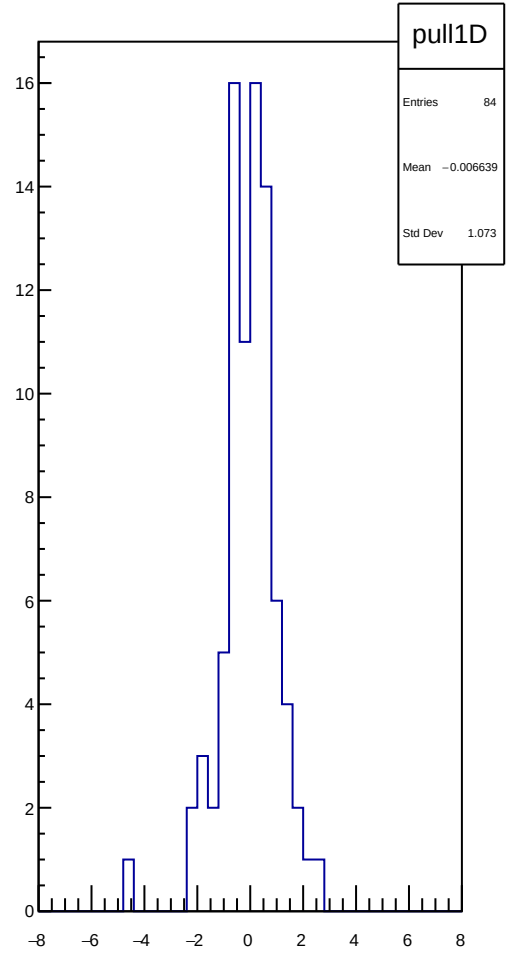

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1017 / 83
p0 1256 ± 0.9711
1400
1350
1300
1250
1200

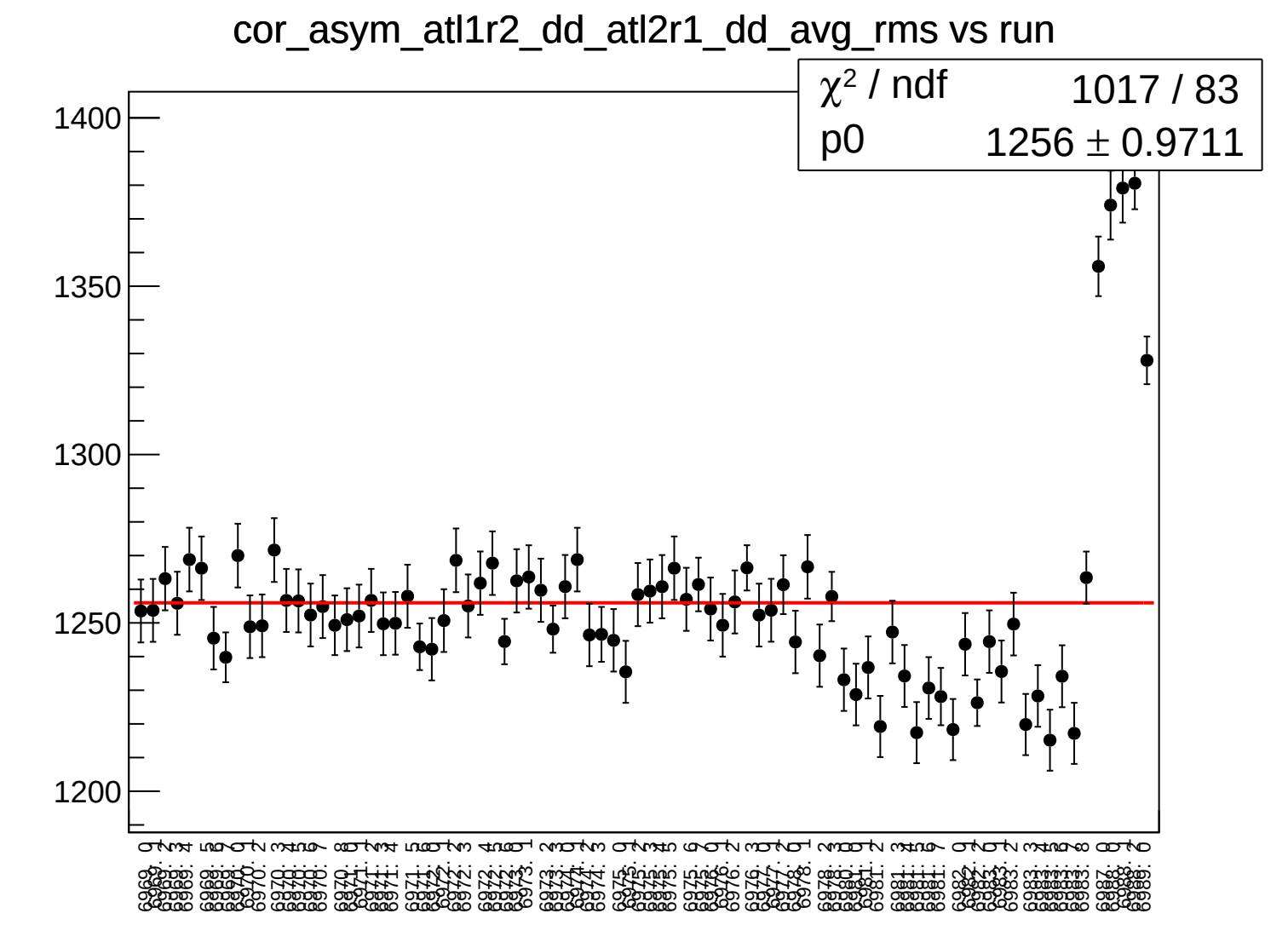

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 94.52 / 83
p0 −710.8 ± 511.3
pull
Entries 84
Mean −16.87
Std Dev 0

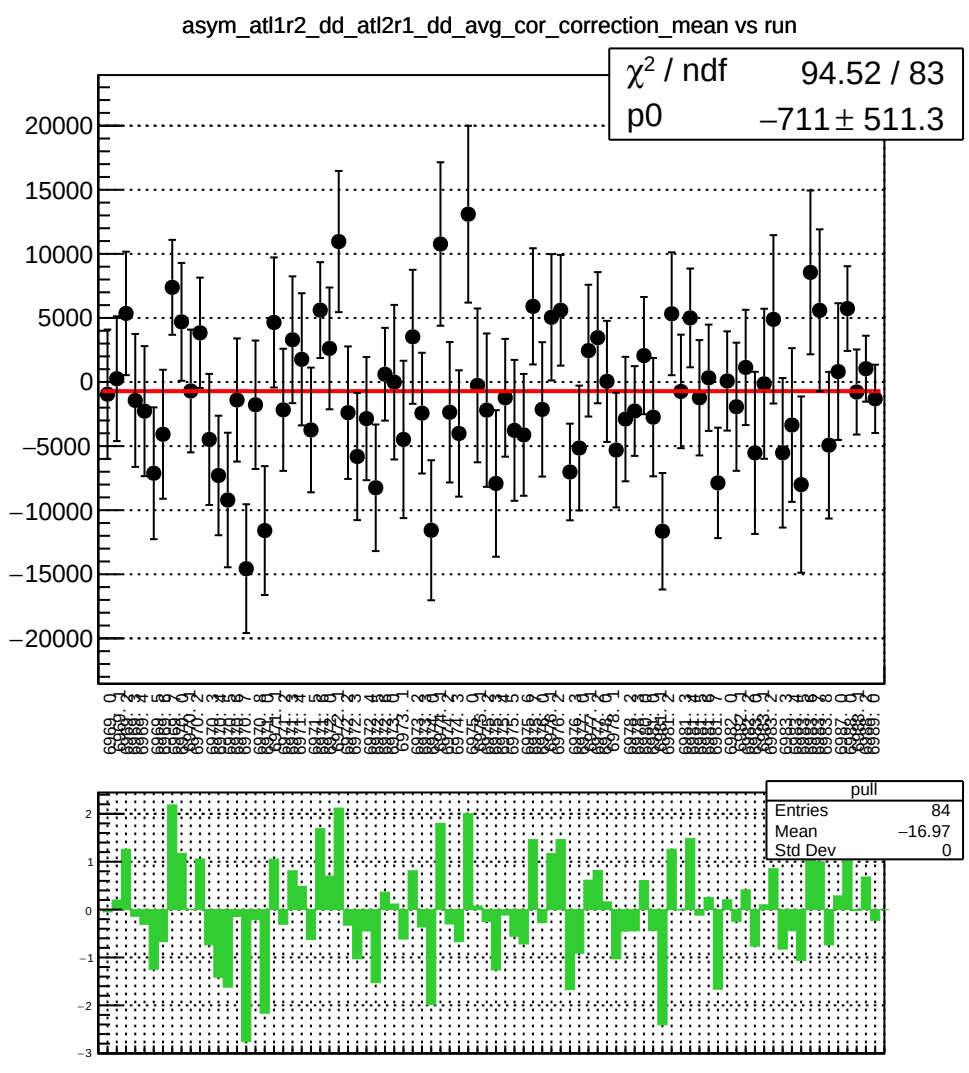

pull1D
Entries 84
Mean −0.02543
Std Dev 1.06

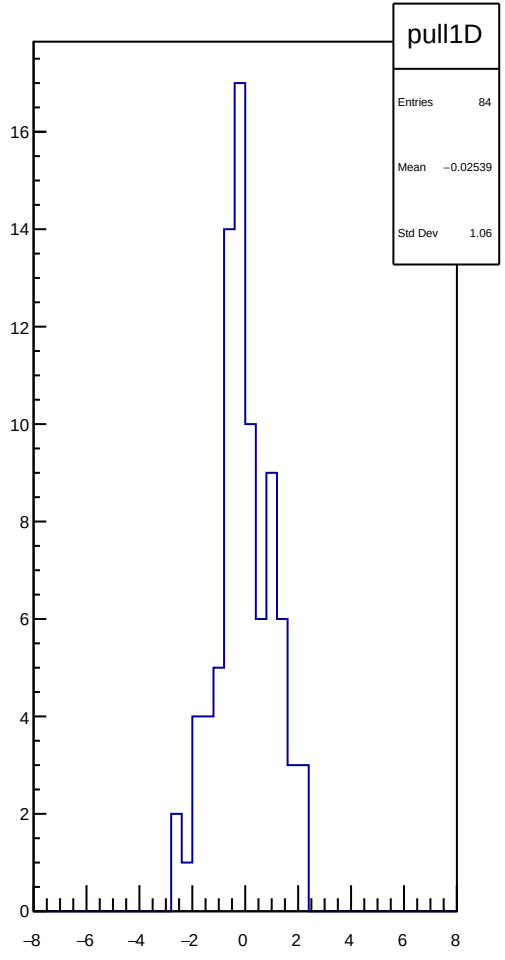

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 4.363e+04 / 83
p0 461.6 ± 0.3616
700
650
600
550
500
450
400
350
300

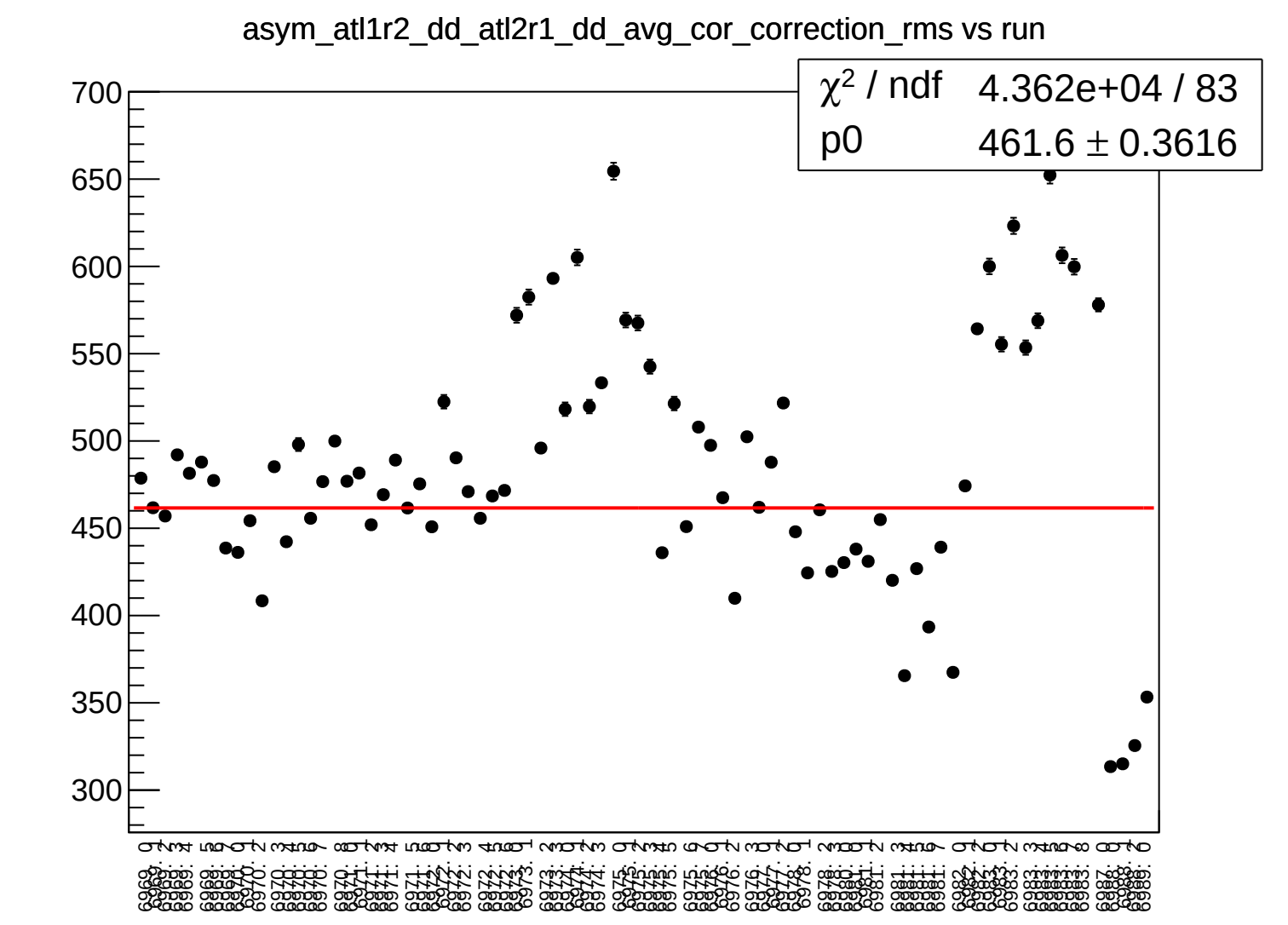

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.67 / 83
p0 −2401 ± 1373
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −325.6
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

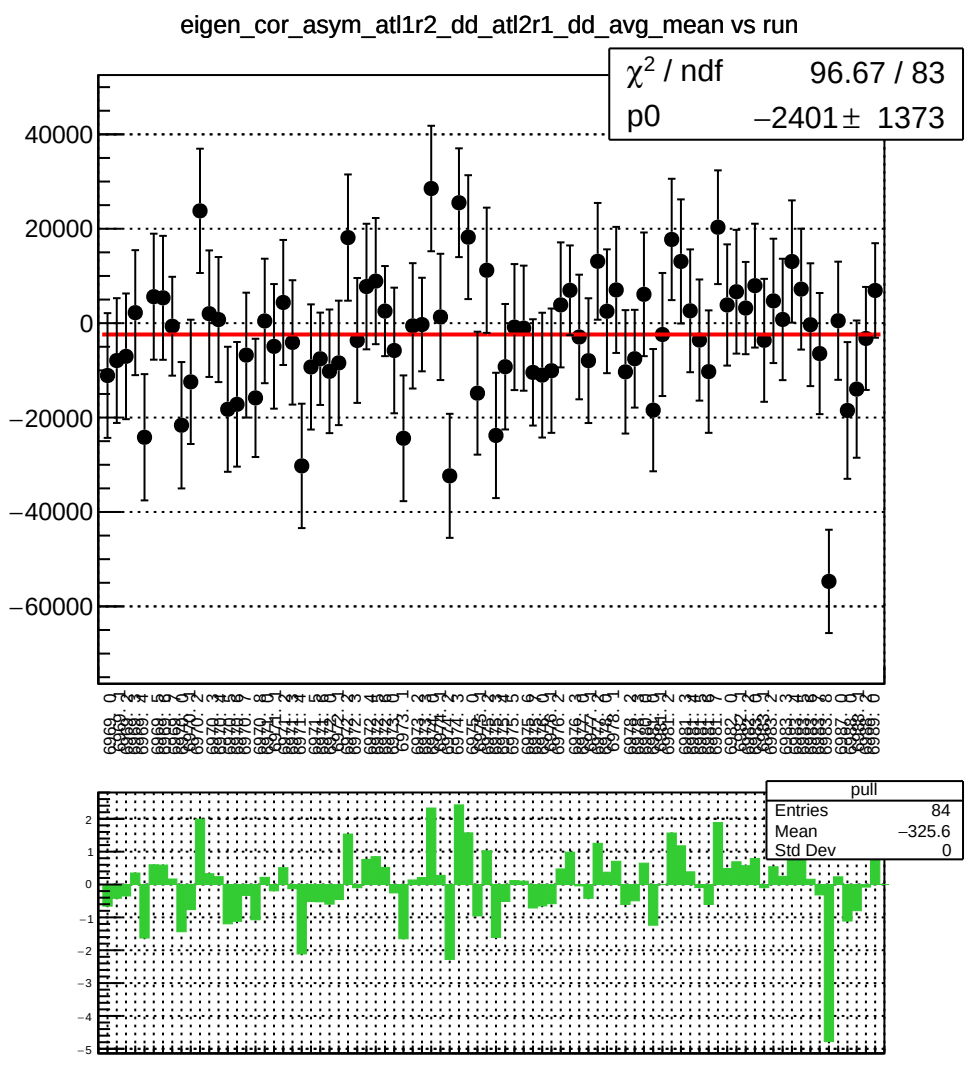

pull1D
Entries 84
Mean −0.006639
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

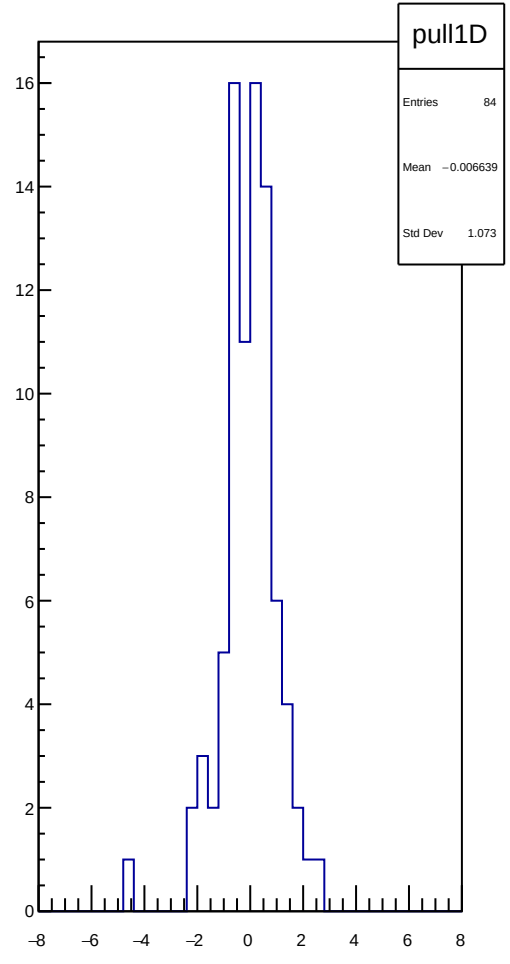

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1017 / 83
p0 1256 ± 0.9711
1400
1350
1300
1250
1200

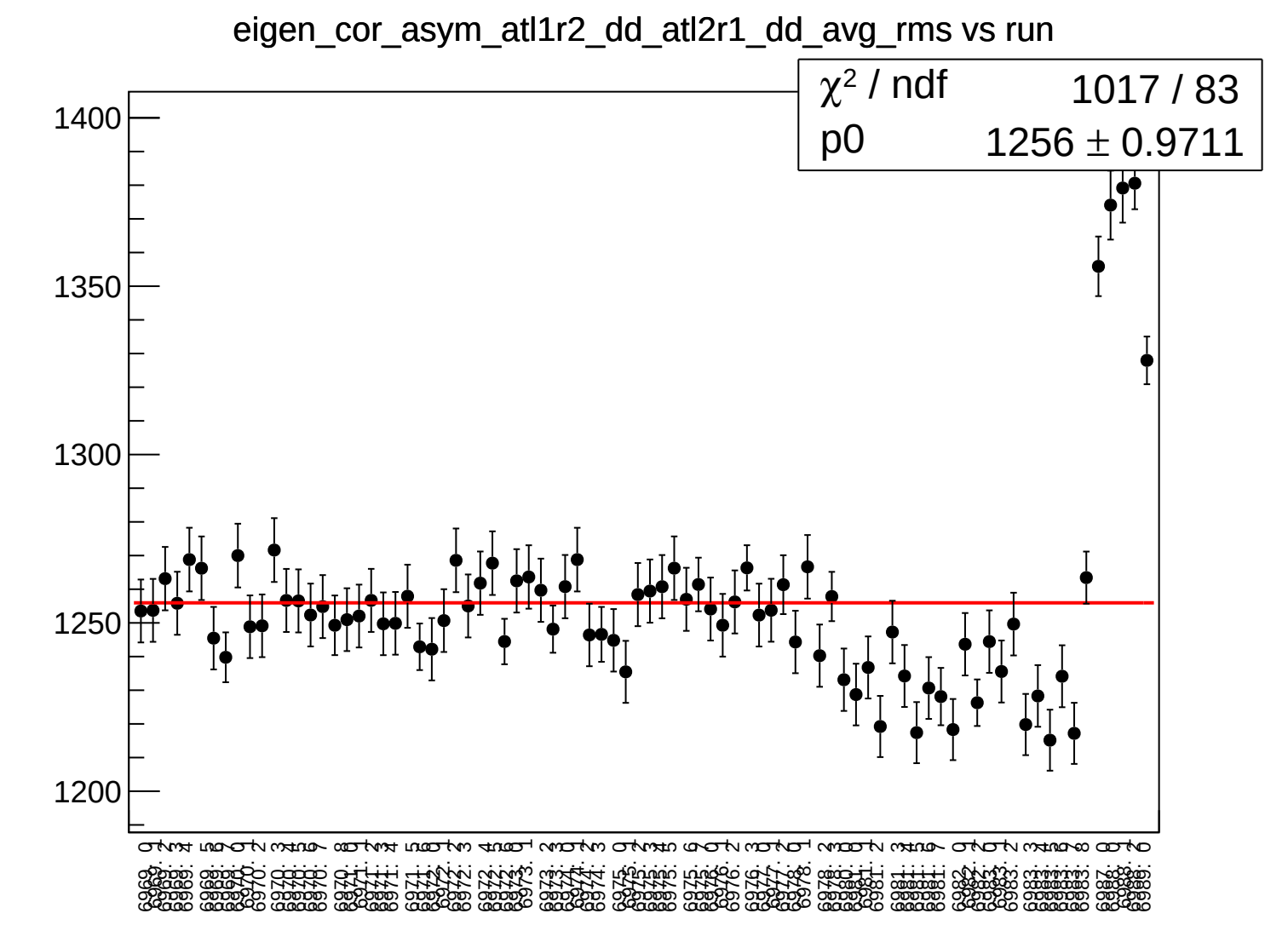

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 94.52 / 83
p0 −711 ± 511.3
pull
Entries 84
Mean −16.97
Std Dev 0

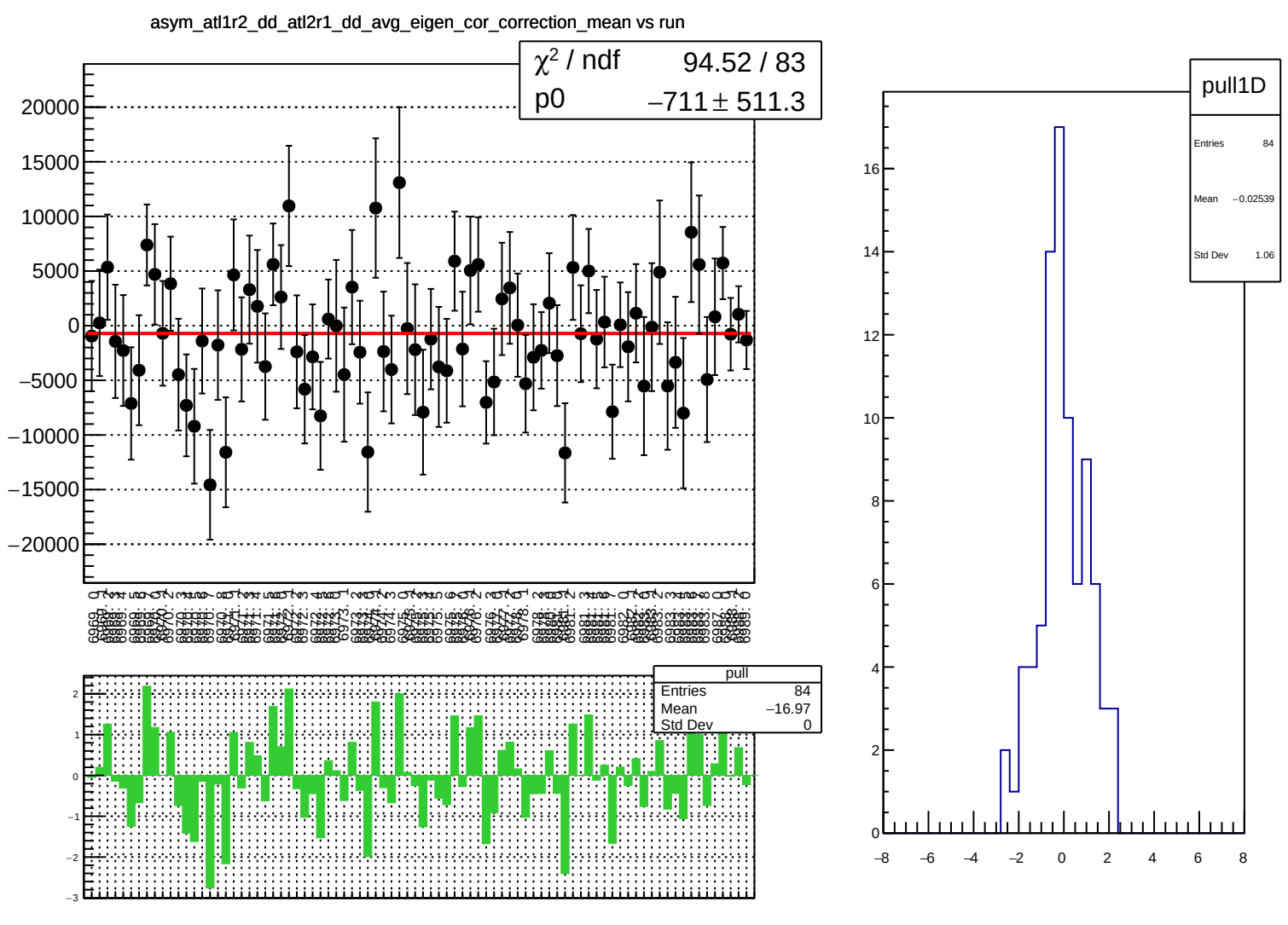

pull1D
Entries 84
Mean −0.02539
Std Dev 1.06

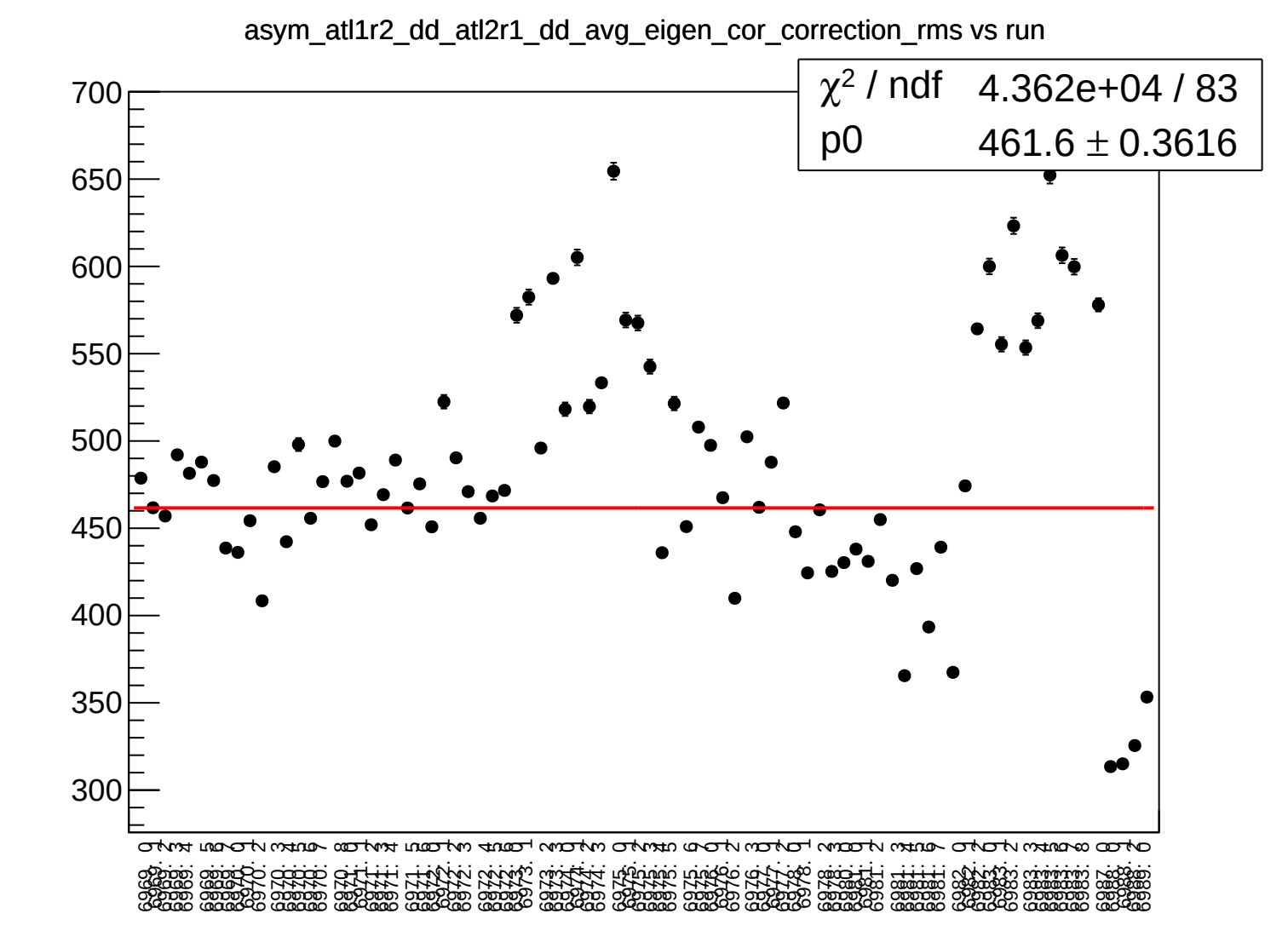

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 4.362e+04 / 83
p0 461.6 ± 0.3616
700
650
600
550
500
450
400
350
300

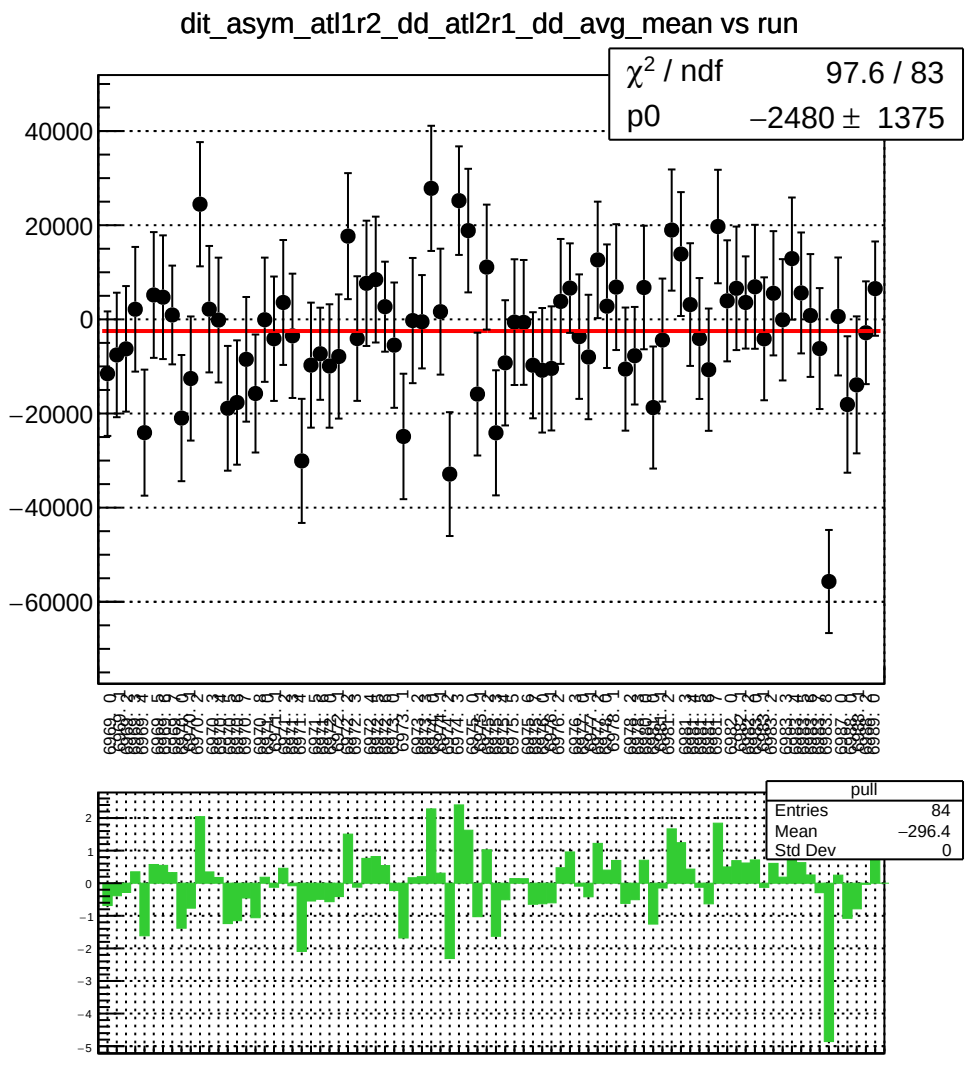

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.67 / 83
p0 −2401 ± 1373
pull
Entries 84
Mean −325.6
Std Dev 0

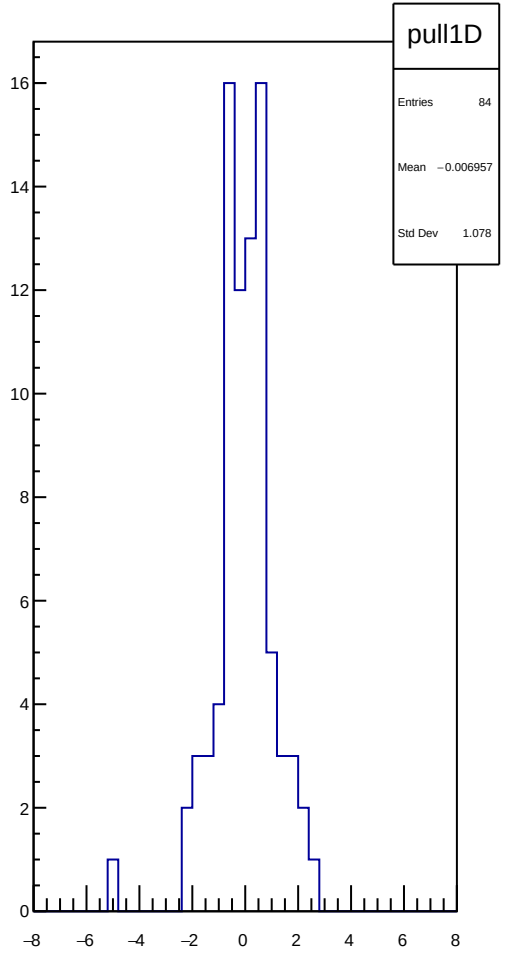

pull1D
Entries 84
Mean −0.006639
Std Dev 1.073

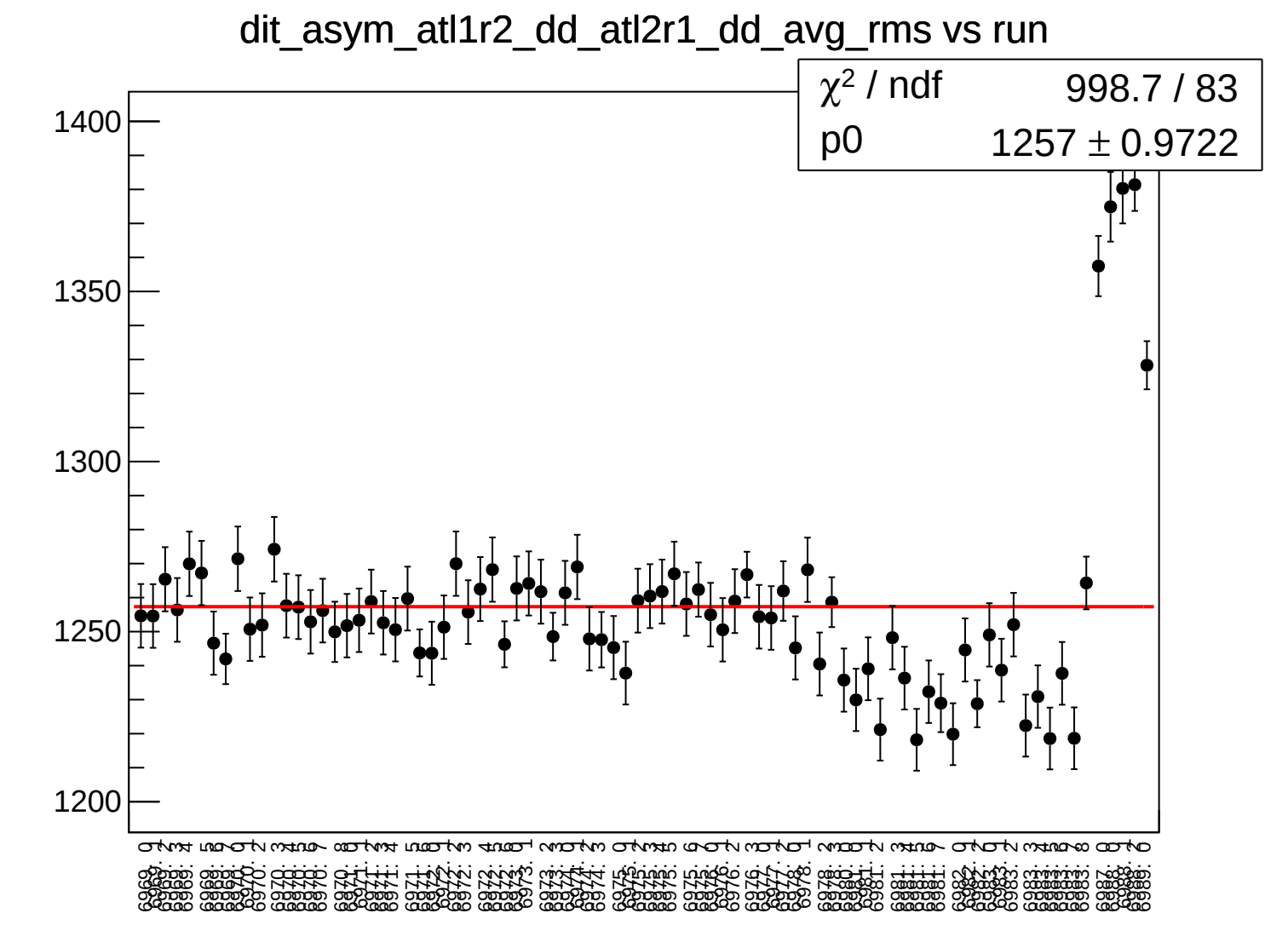

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1017 / 83
p0 1256 ± 0.9711
1400
1350
1300
1250
1200

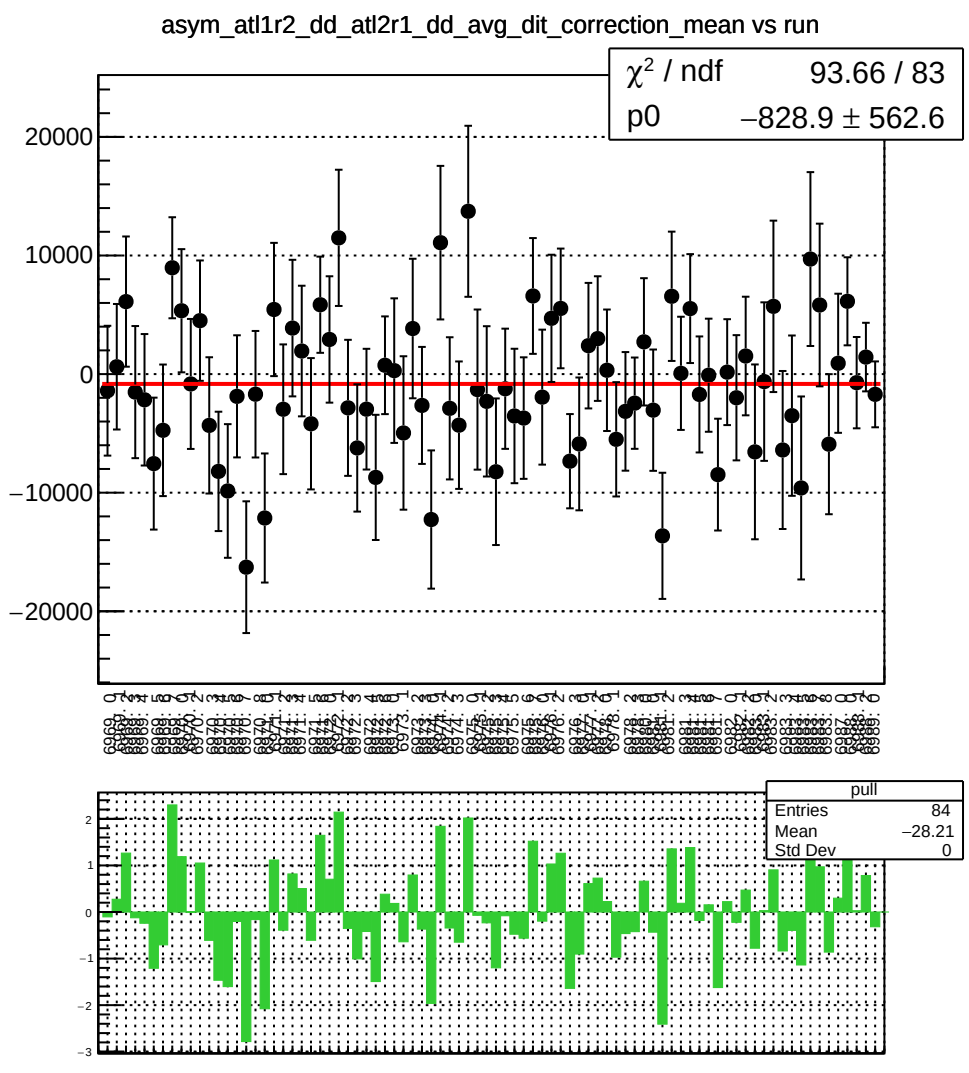

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.52 / 83
p0 −711 ± 511.3
pull
Entries 84
Mean −16.97
Std Dev 0
pull1D
Entries 84
Mean −0.02539
Std Dev 1.06

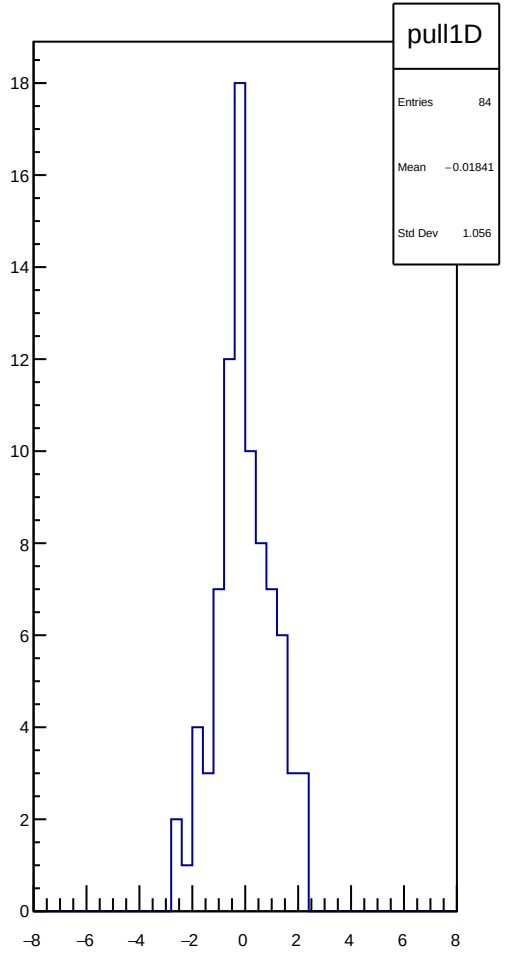

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.362e+04 / 83
p0 461.6 ± 0.3616
700
650
600
550
500
450
400
350
300

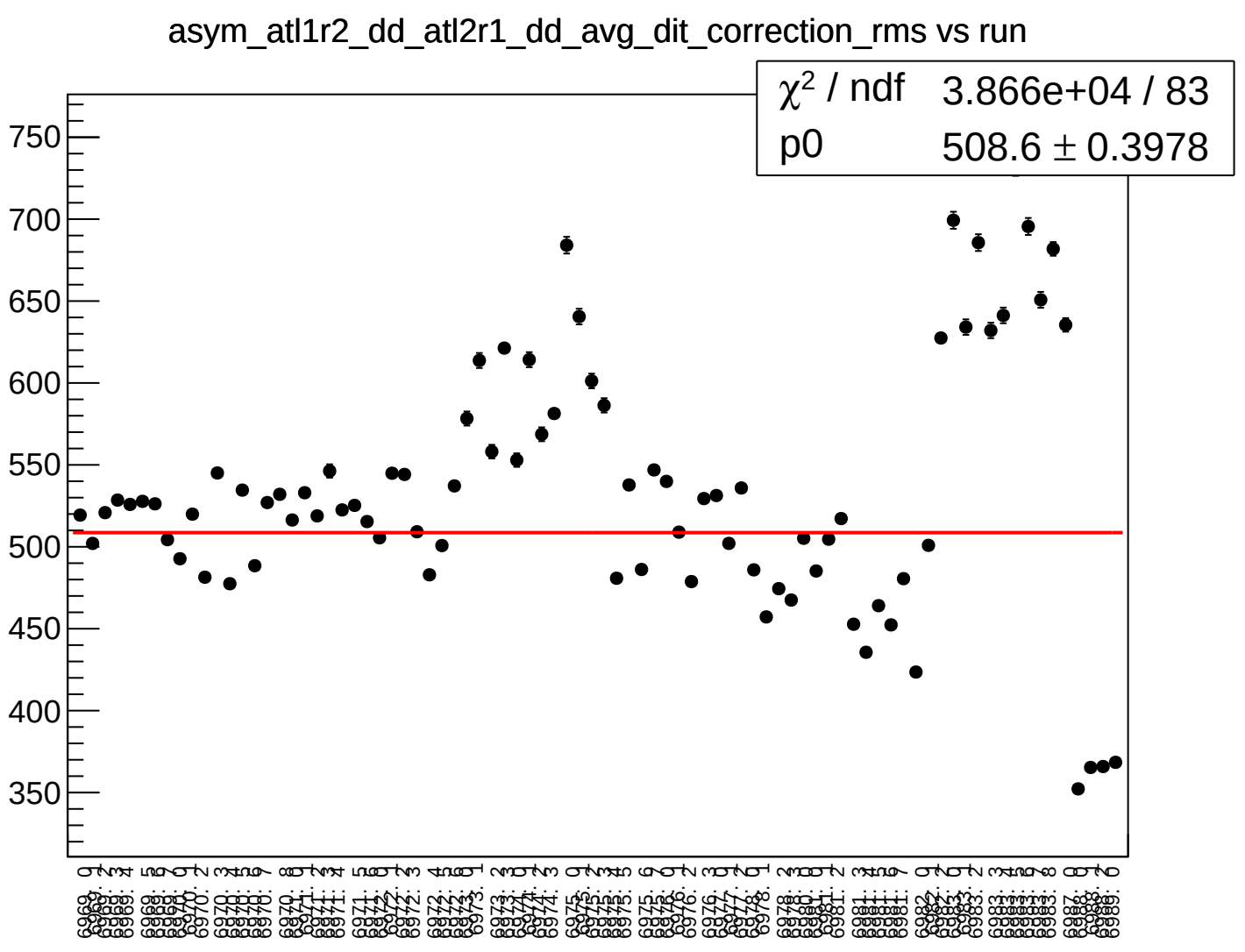

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 97.6 / 83
p0 −2480 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −296.4
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

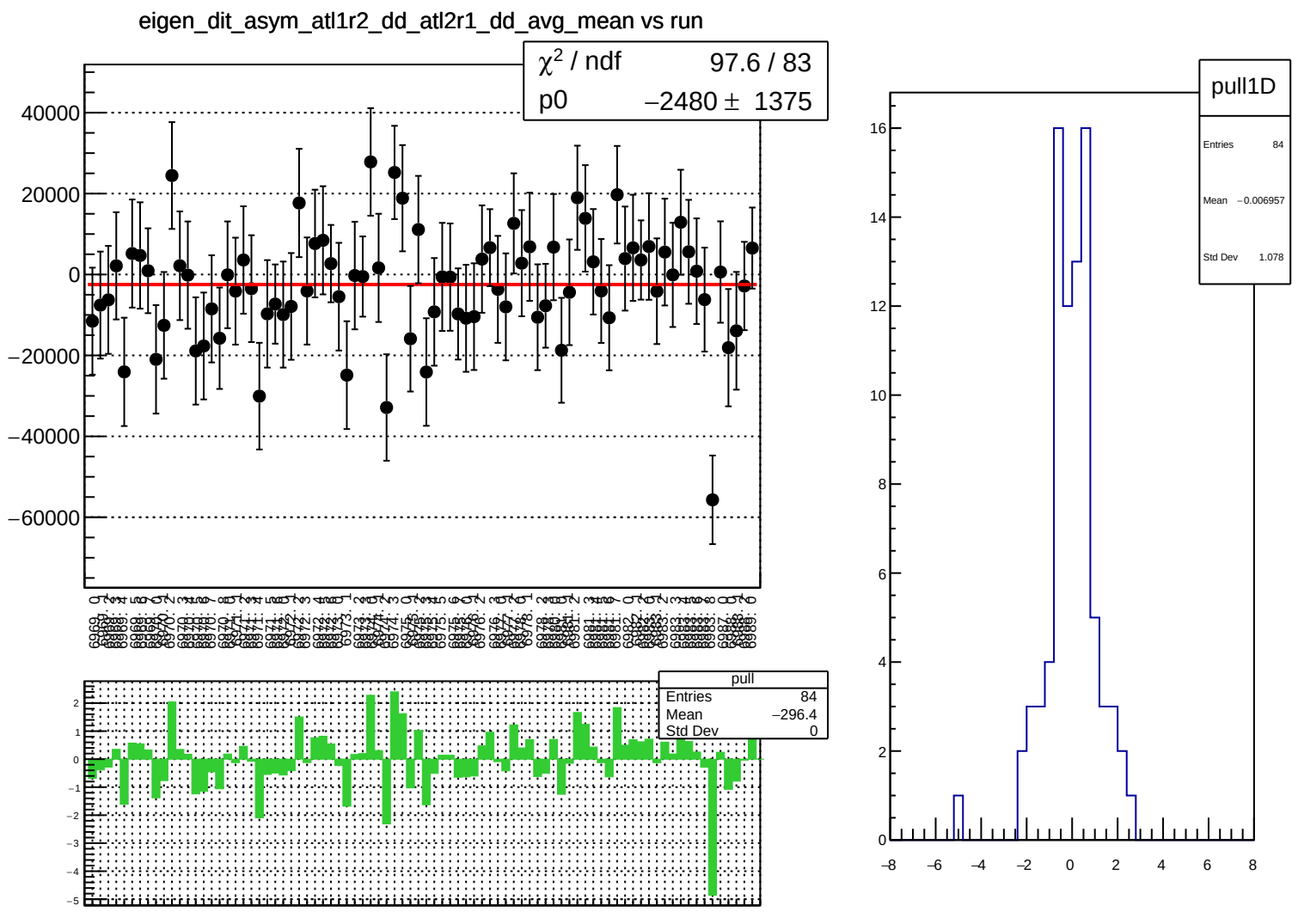

pull1D
Entries 84
Mean −0.006957
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

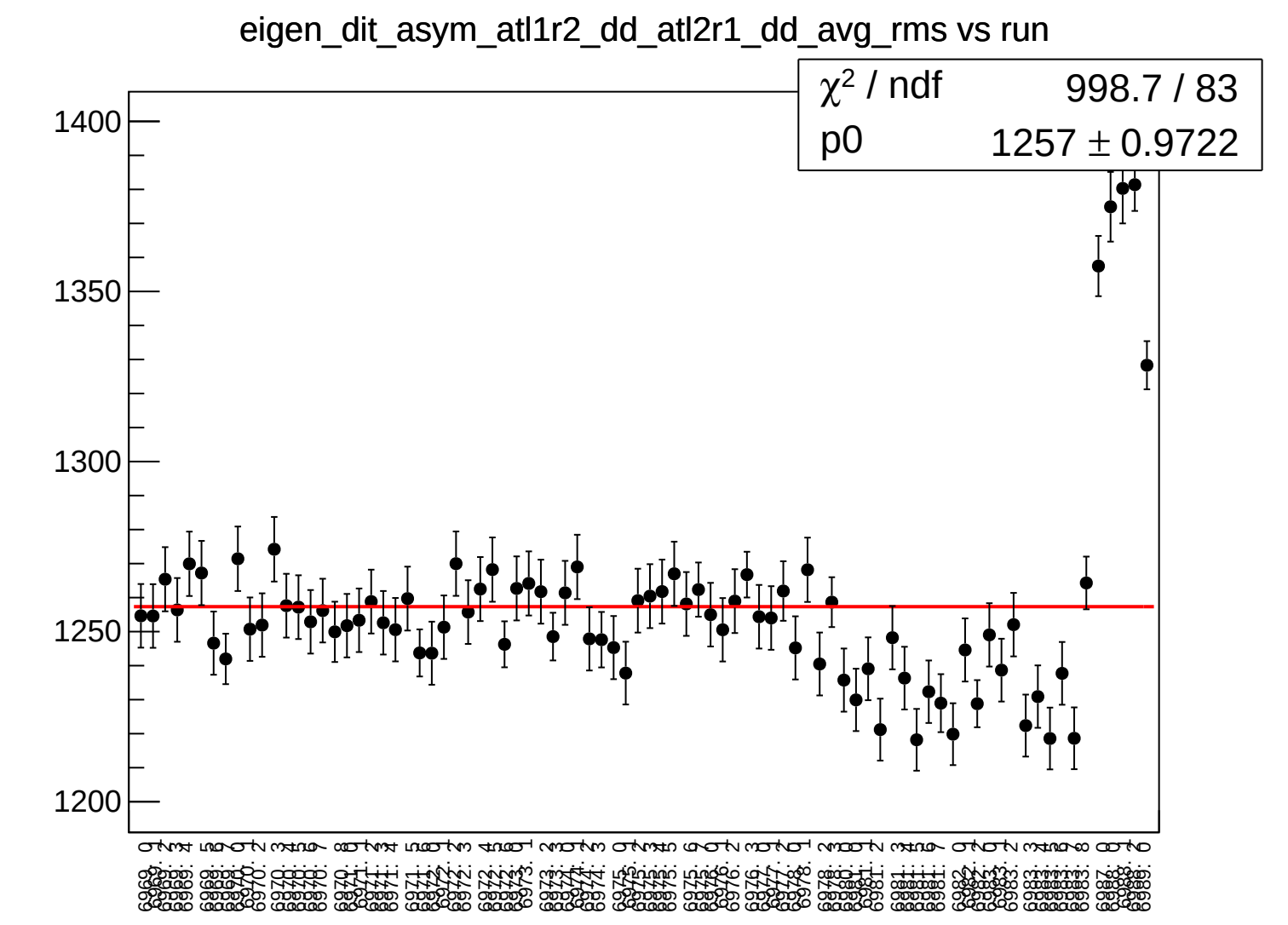

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 998.7 / 83
p0 1257 ± 0.9722
1400
1350
1300
1250
1200

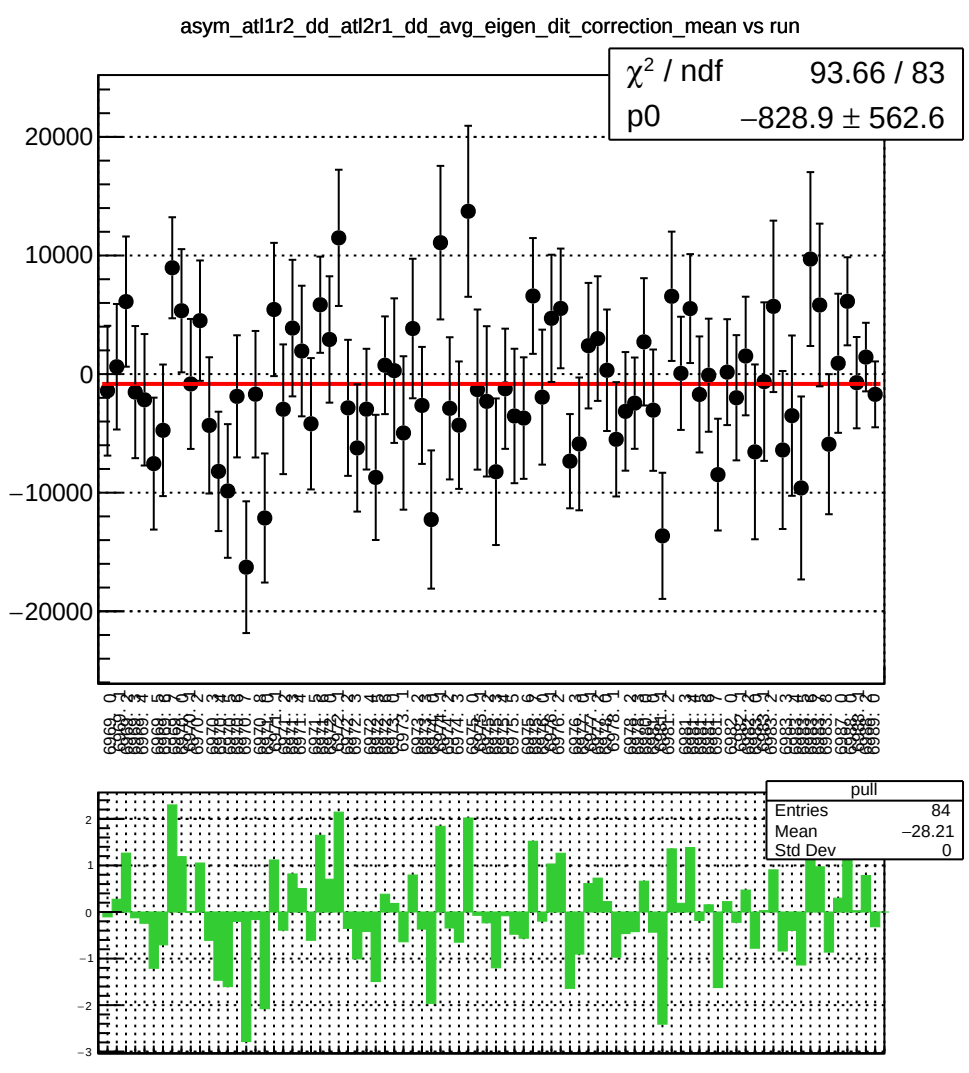

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 93.66 / 83
p0 −828.9 ± 562.6
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −28.21
Std Dev 0
2
1
0
−1
−2
−3

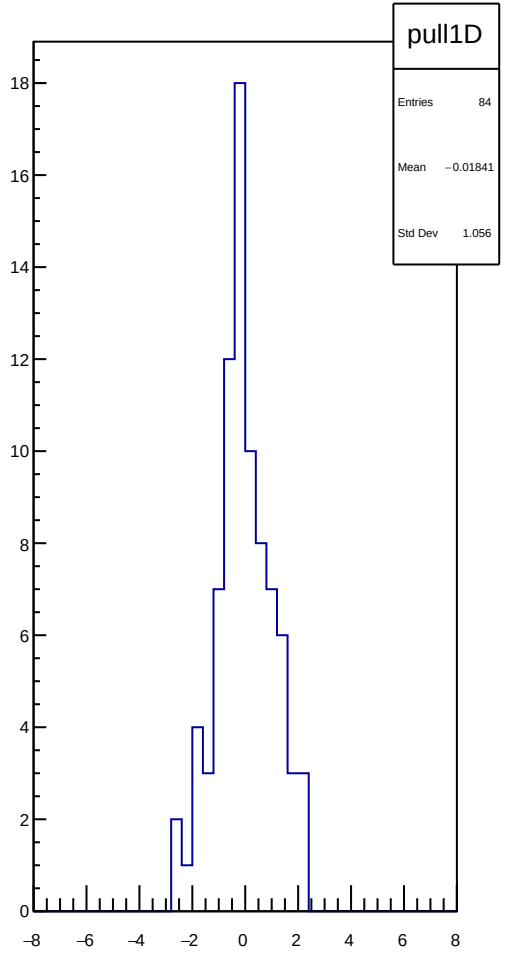

pull1D
Entries 84
Mean −0.01841
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

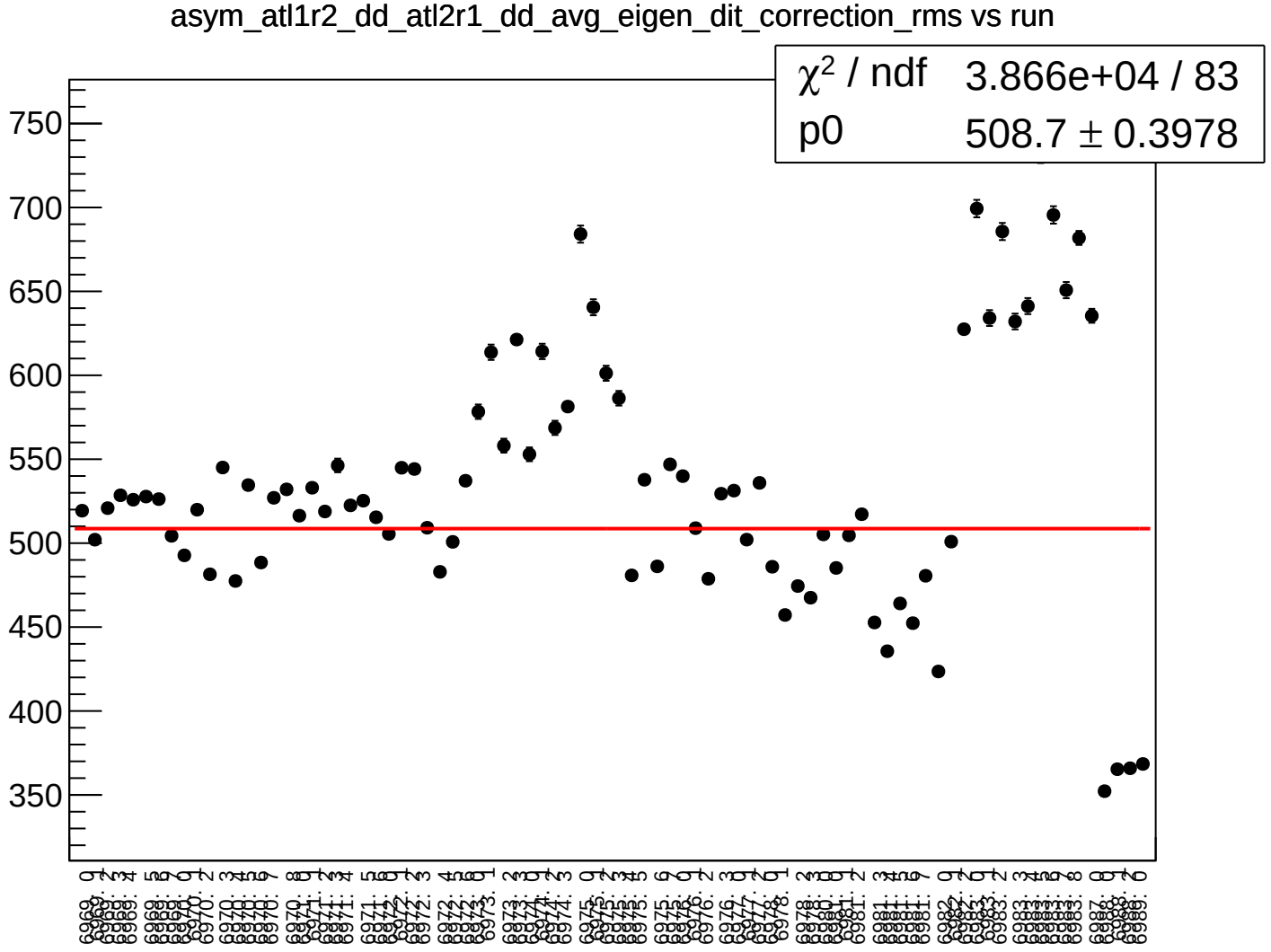

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 3.866e+04 / 83
p0 508.6 ± 0.3978
750
700
650
600
550
500
450
400
350

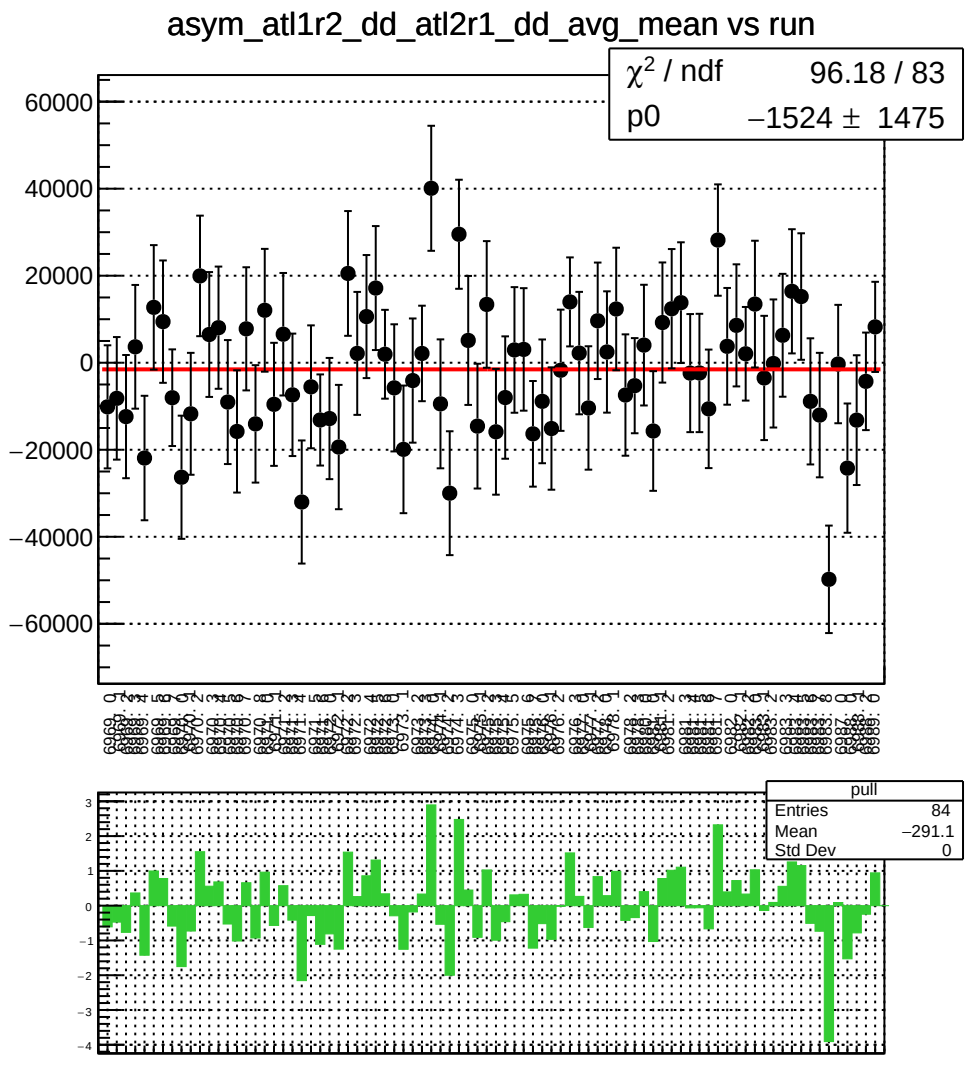

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 97.6 / 83
p0 −2480 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −296.4
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 84
Mean −0.006957
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

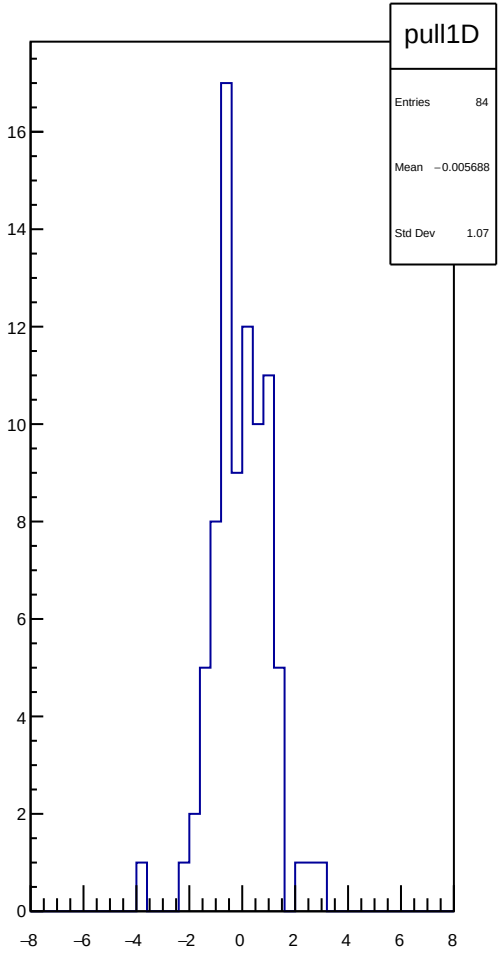

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 998.7 / 83
p0 1257 ± 0.9722
1400
1350
1300
1250
1200

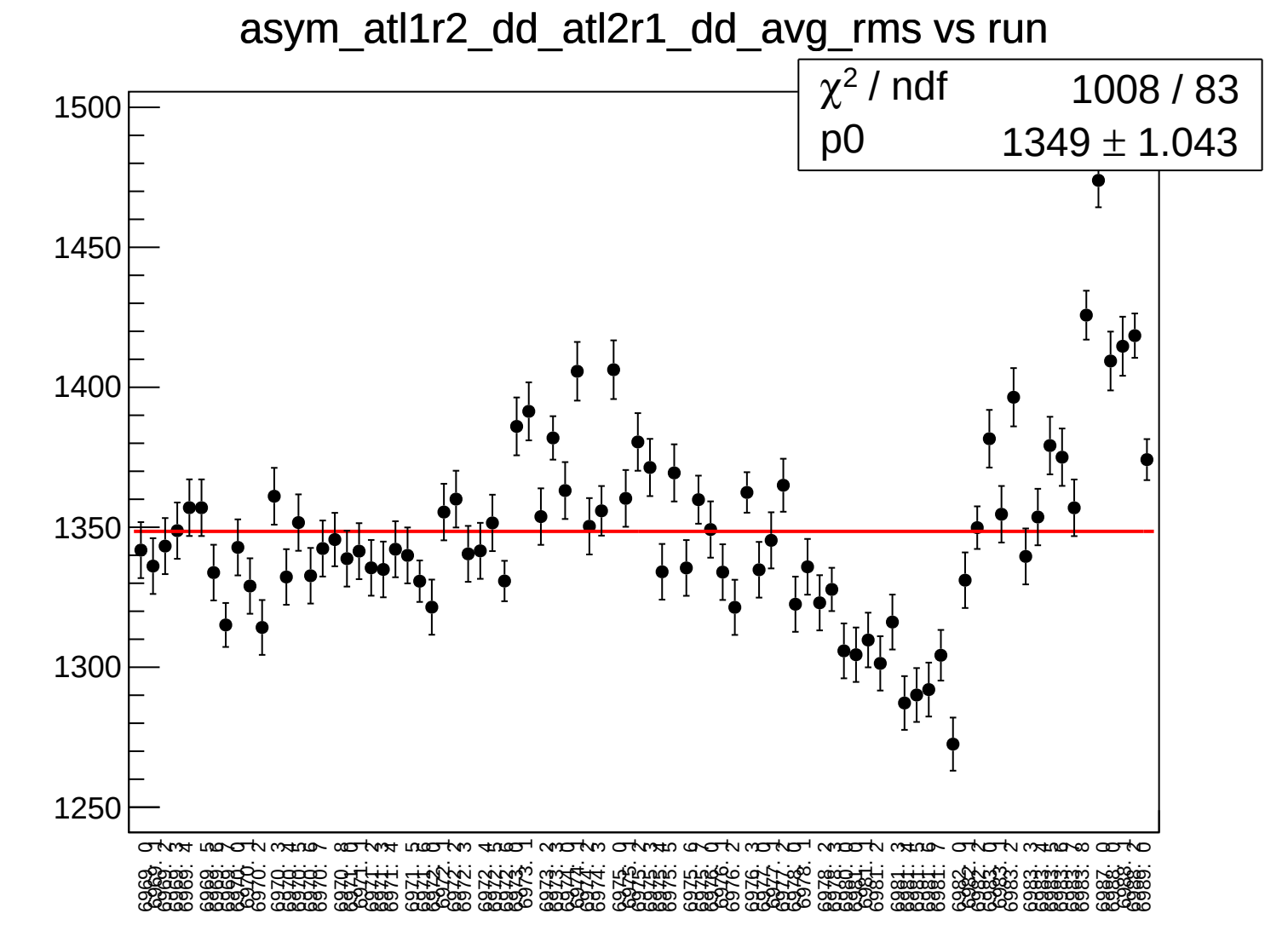

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.66 / 83
p0 −828.9 ± 562.6
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −28.21
Std Dev 0
2
1
0
−1
−2
−3

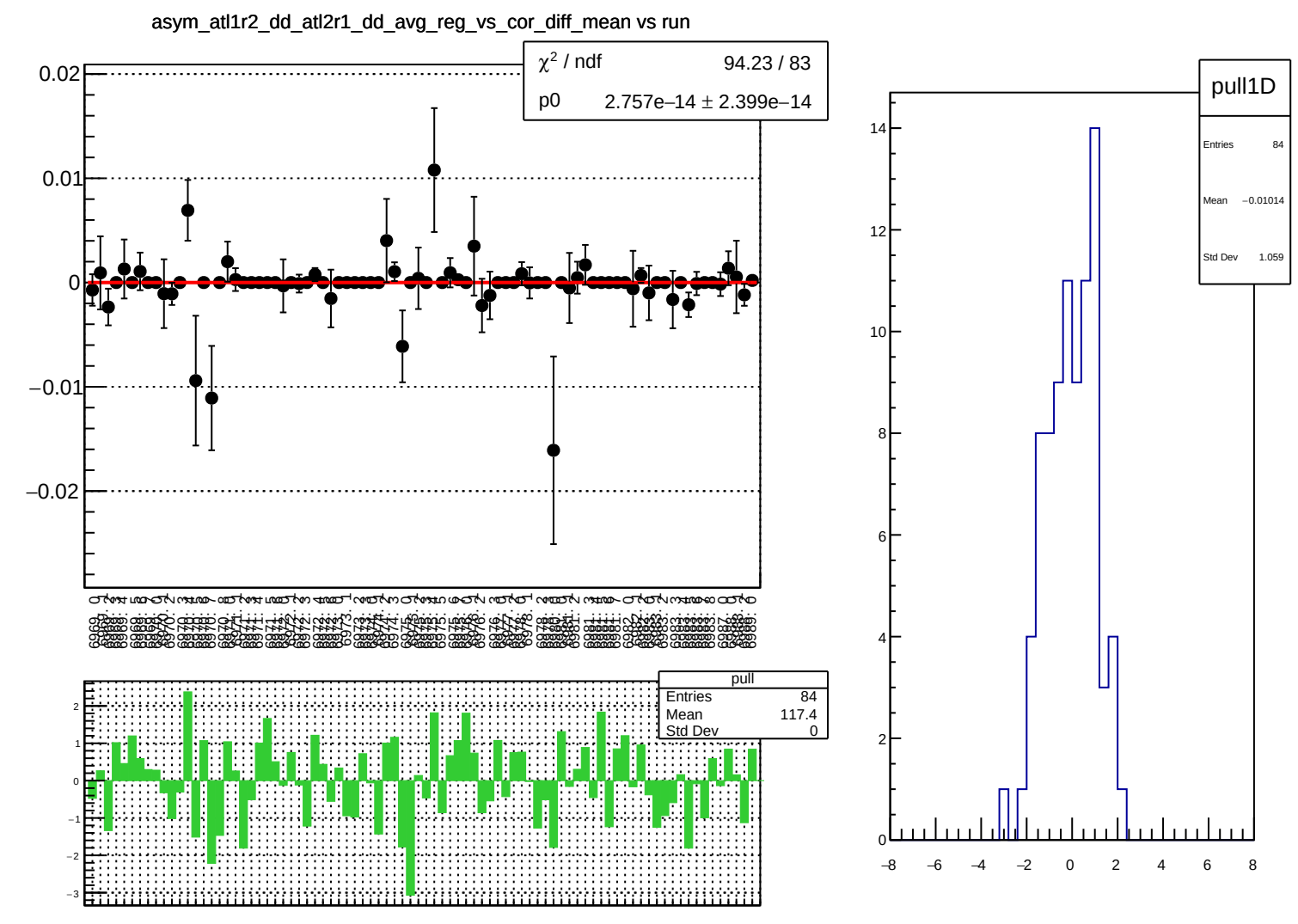

pull1D
Entries 84
Mean −0.01841
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

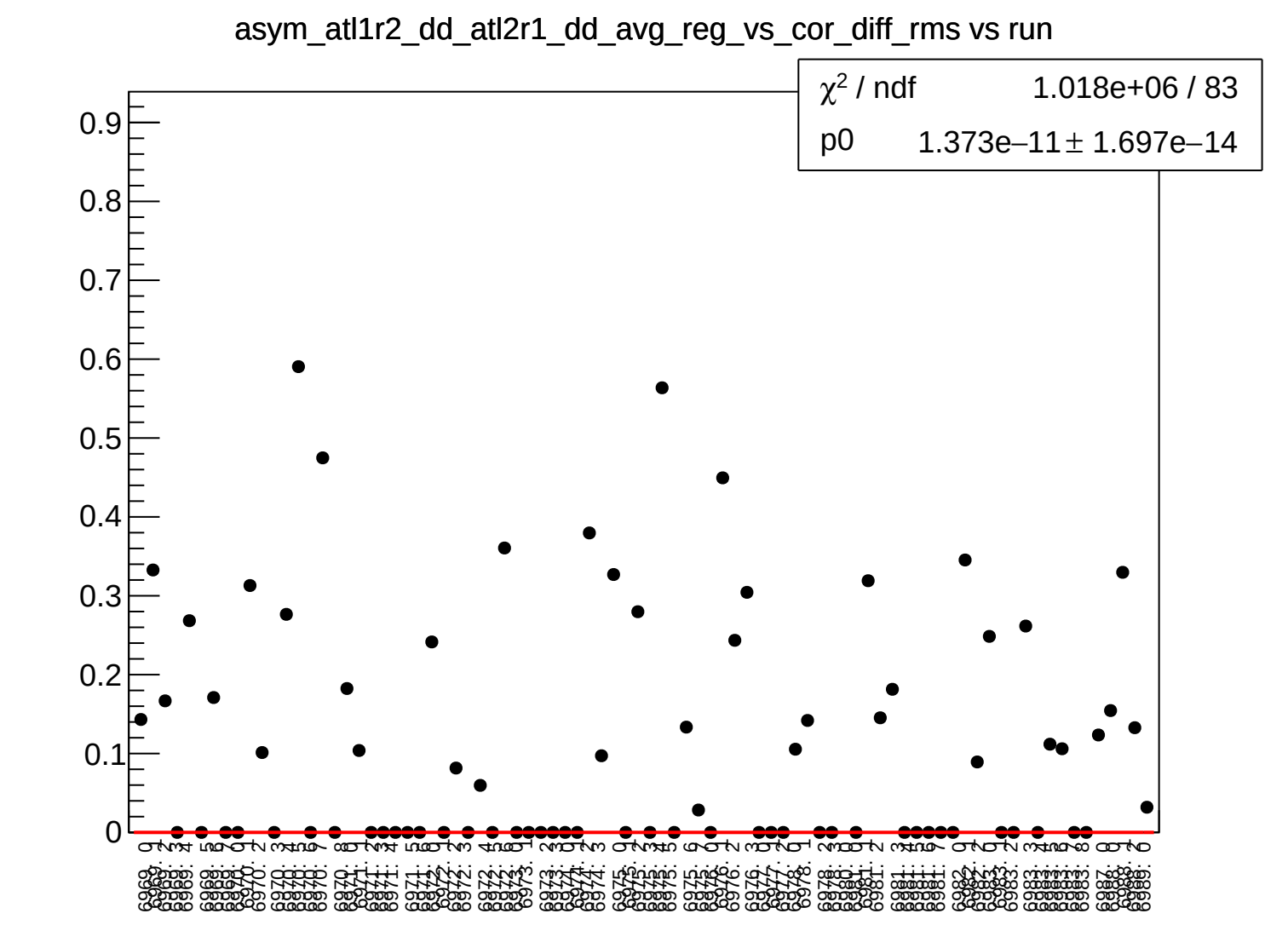

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.866e+04 / 83
p0 508.7 ± 0.3978
750
700
650
600
550
500
450
400
350

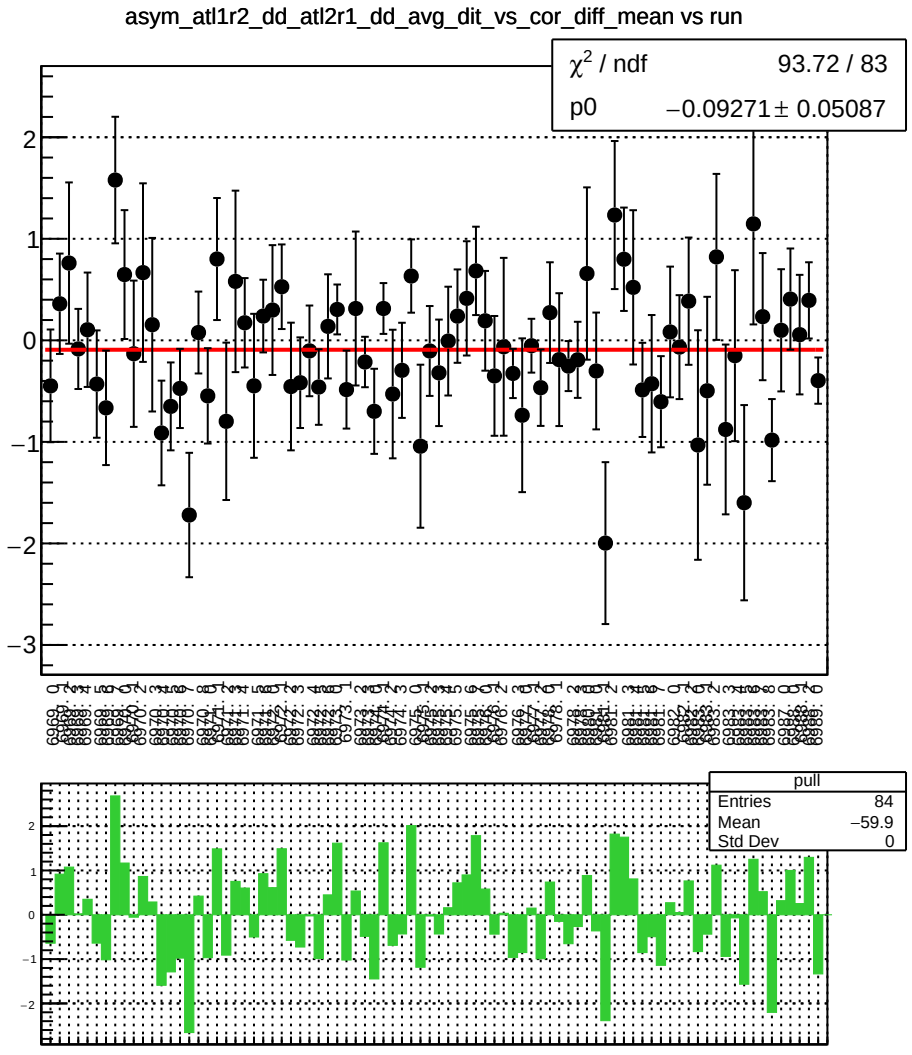

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.18 / 83
p0 −1524 ± 1475
pull
Entries 84
Mean −291.1
Std Dev 0

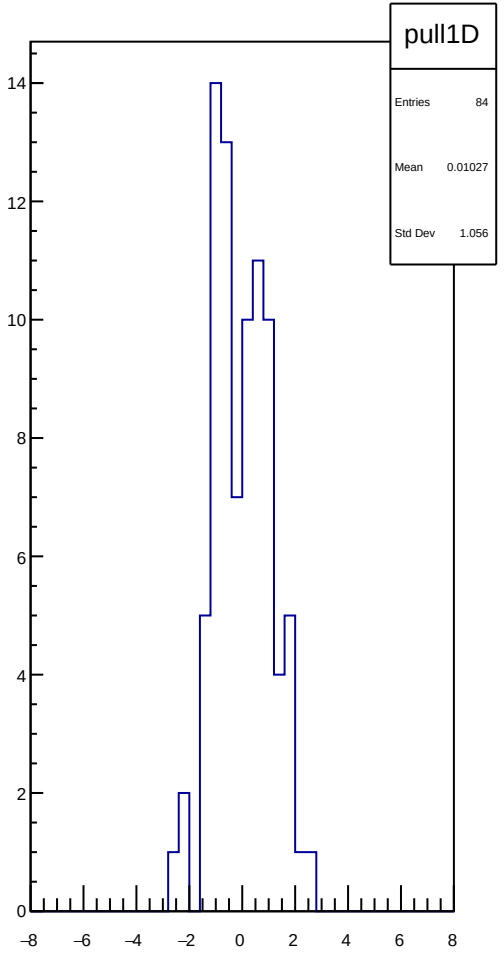

pull1D
Entries 84
Mean −0.005688
Std Dev 1.07

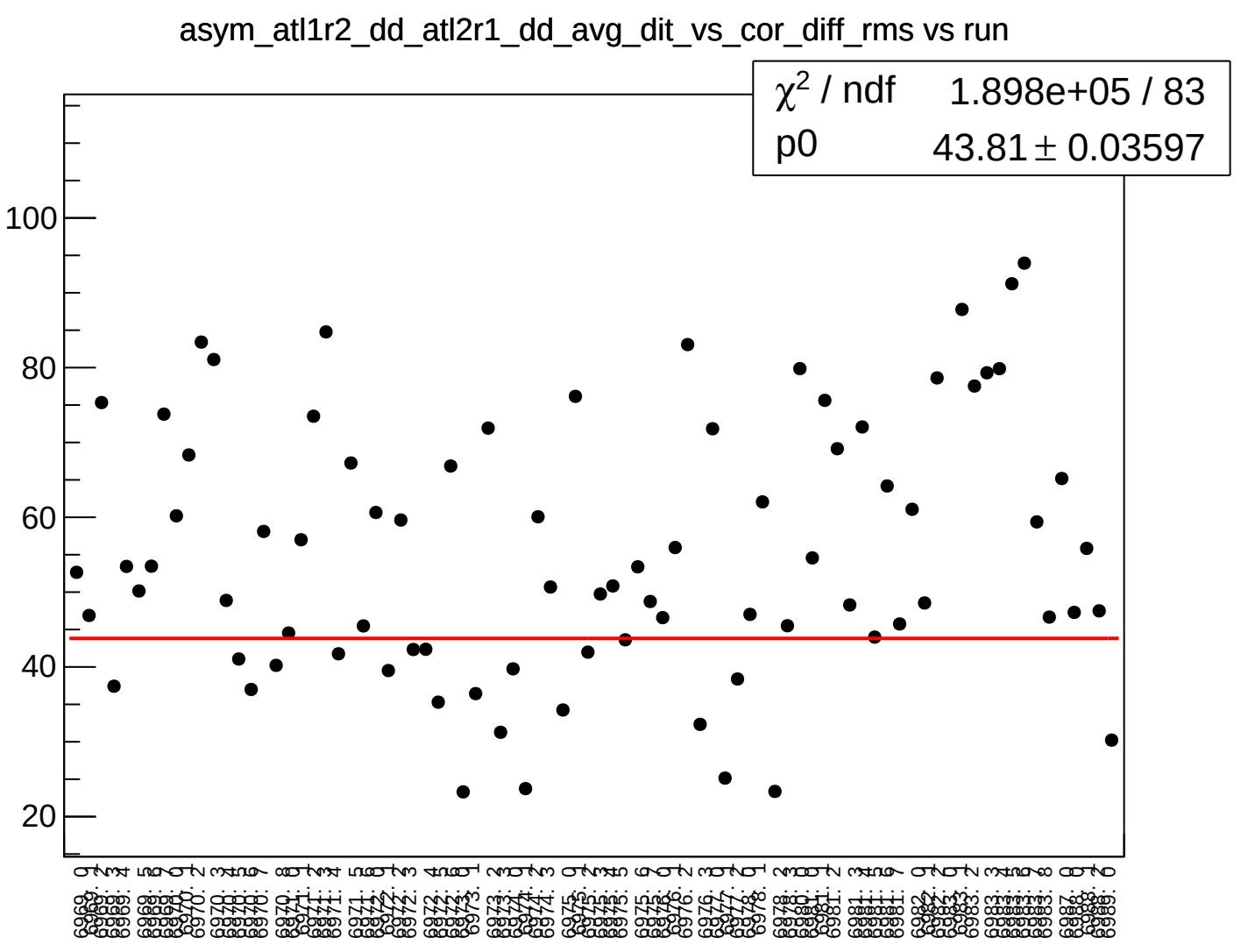

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1008 / 83
p0 1349 ± 1.043
1500
1450
1400
1350
1300
1250

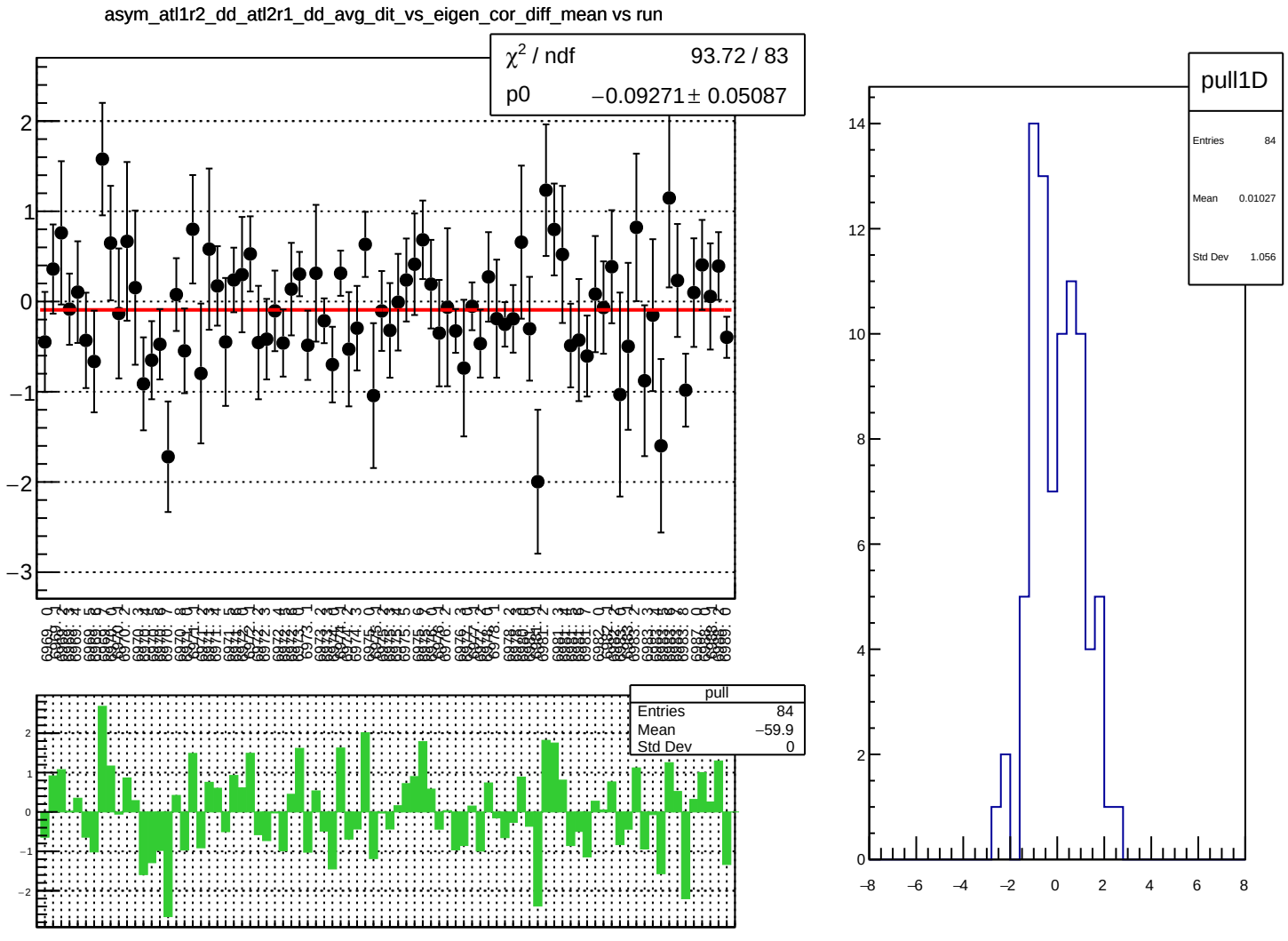

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.23 / 83
p0 2.757e−14 ± 2.399e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 117.4
Std Dev 0
pull1D
Entries 84
Mean −0.01014
Std Dev 1.059

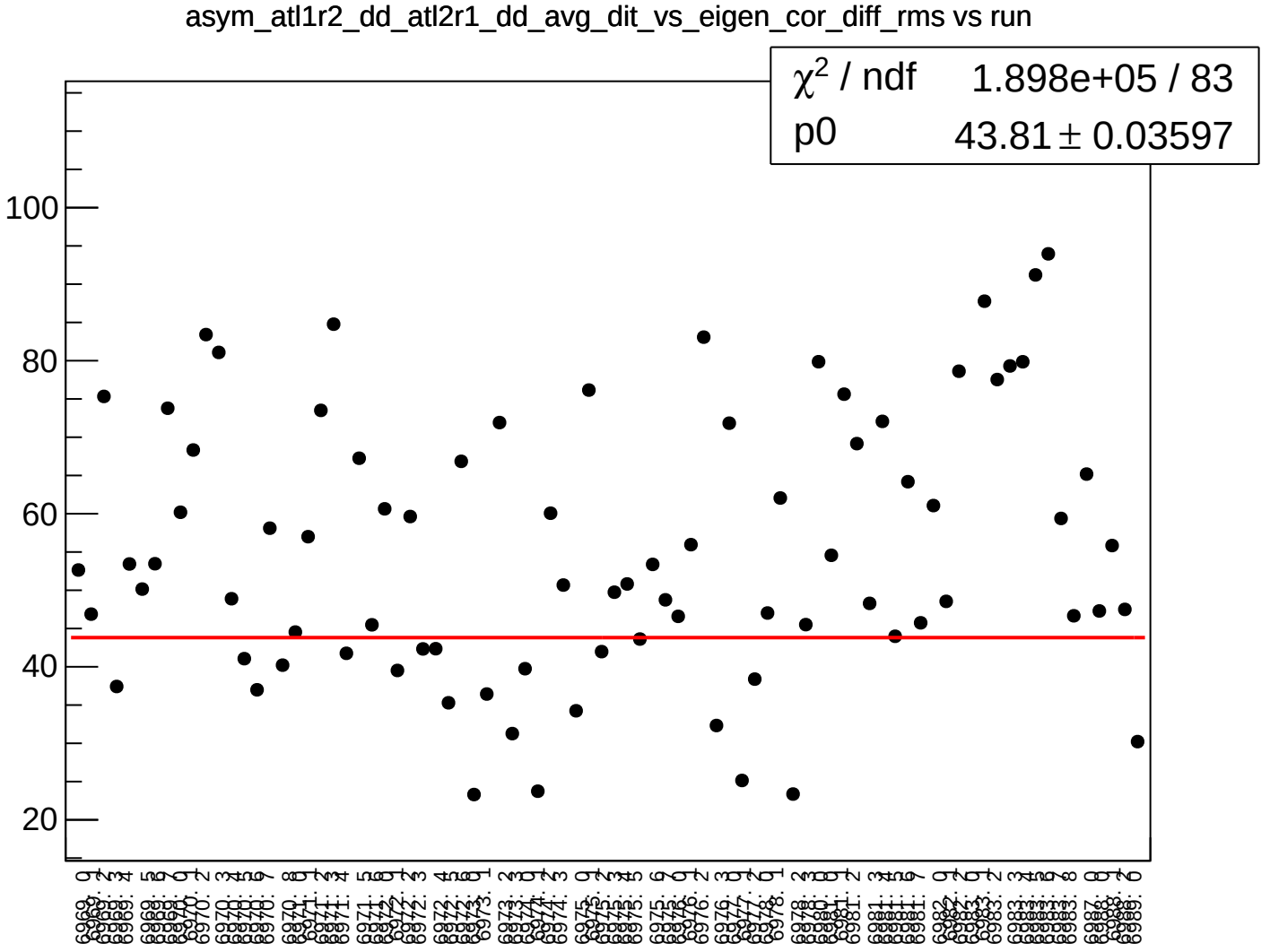

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.018e+06 / 83
p0 1.373e−11 ± 1.697e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

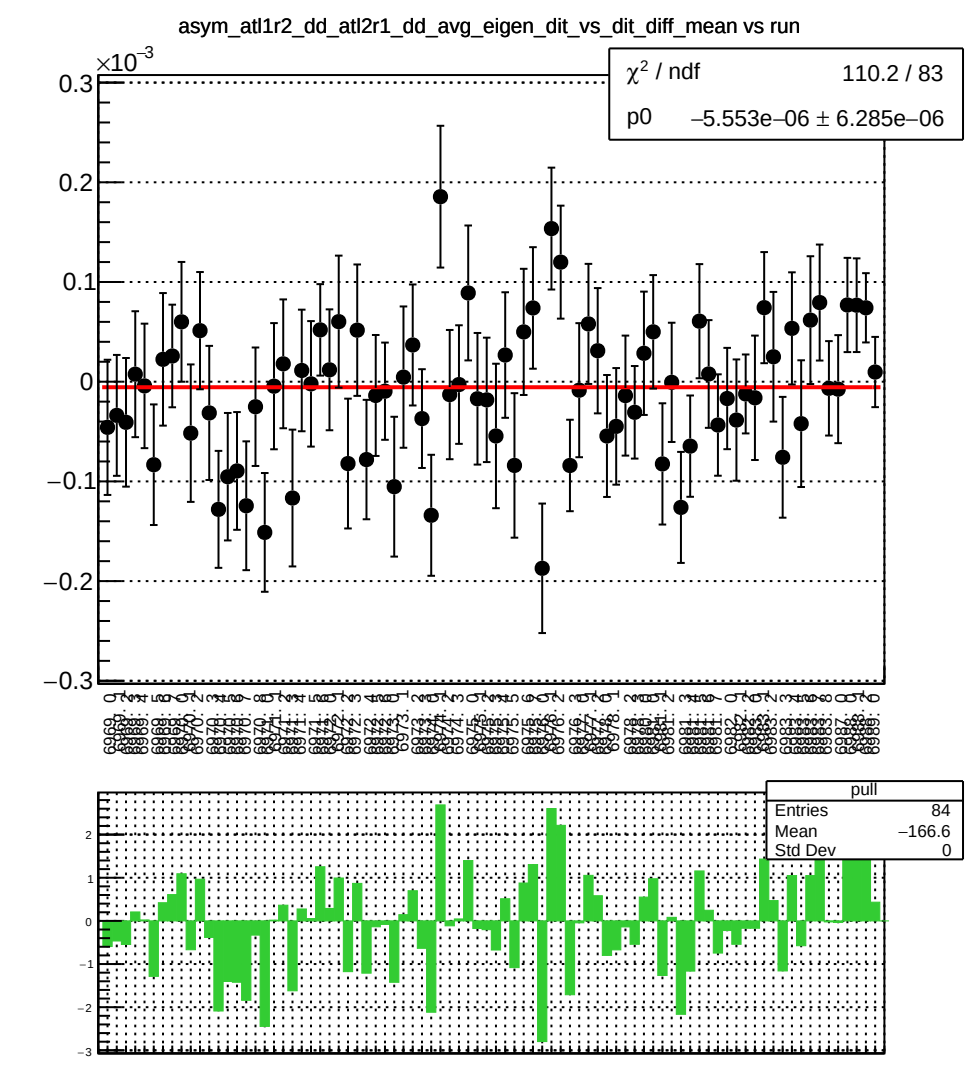

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.72 / 83
p0 −0.09271 ± 0.05087
pull
Entries 84
Mean −59.9
Std Dev 0

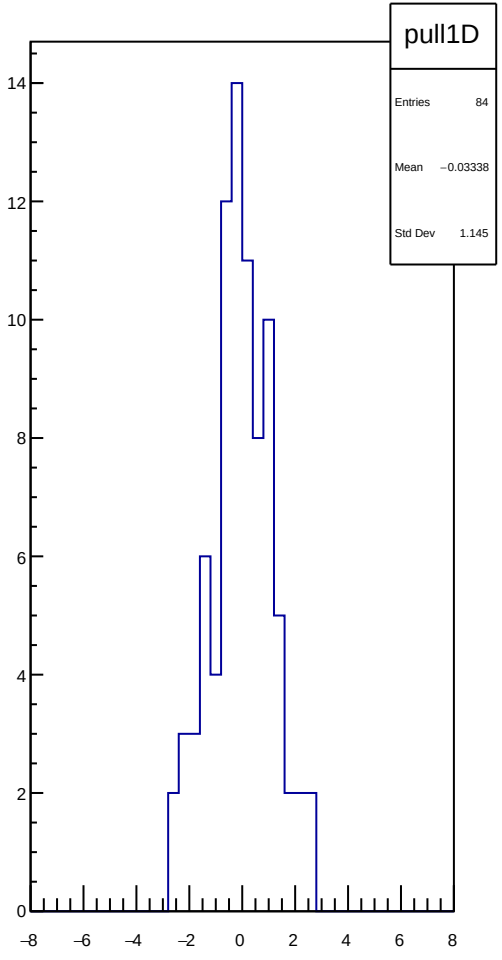

pull1D
Entries 84
Mean 0.01027
Std Dev 1.056

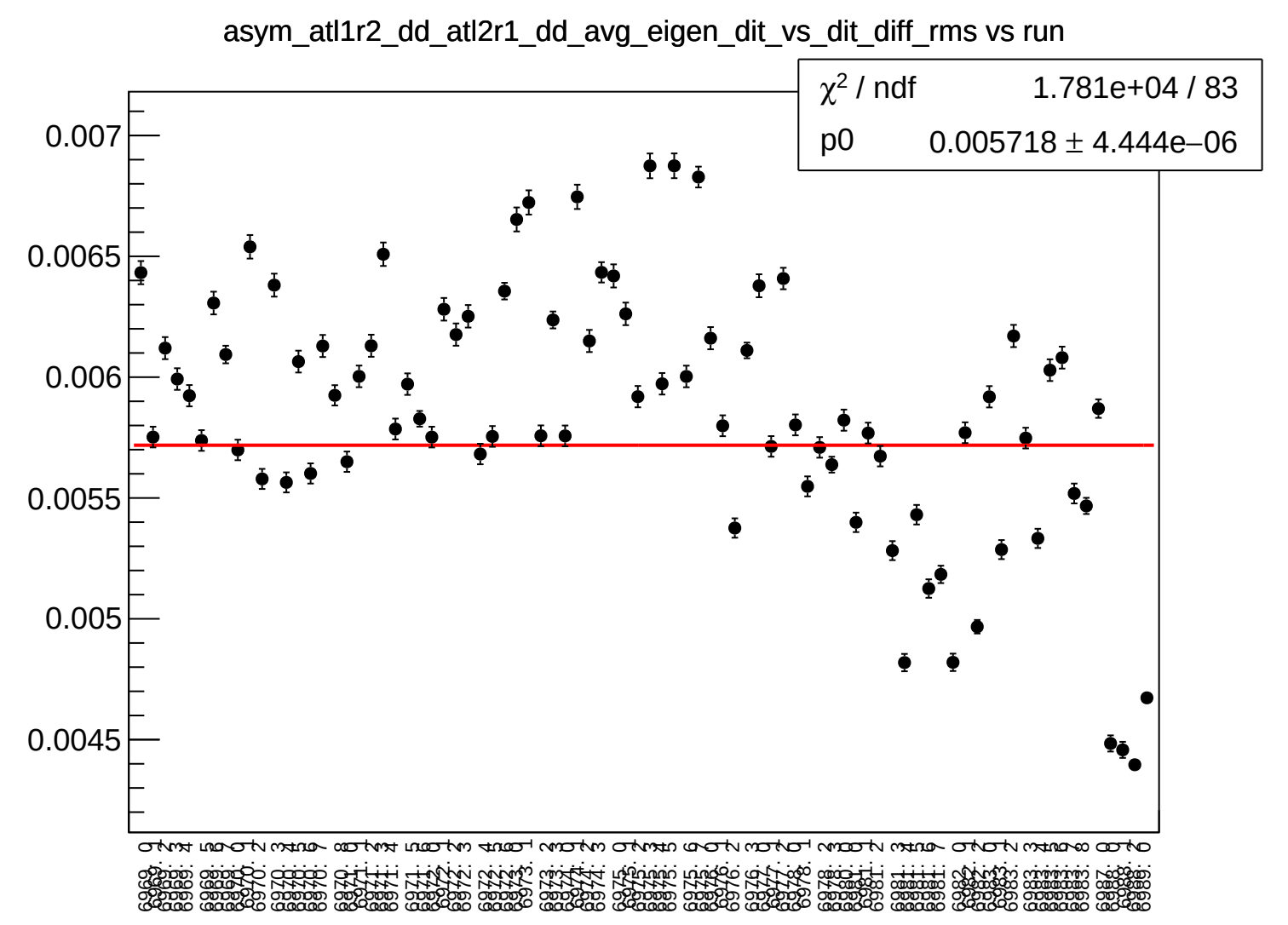

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.898e+05 / 83
p0 43.81 ± 0.03597
100
80
60
40
20

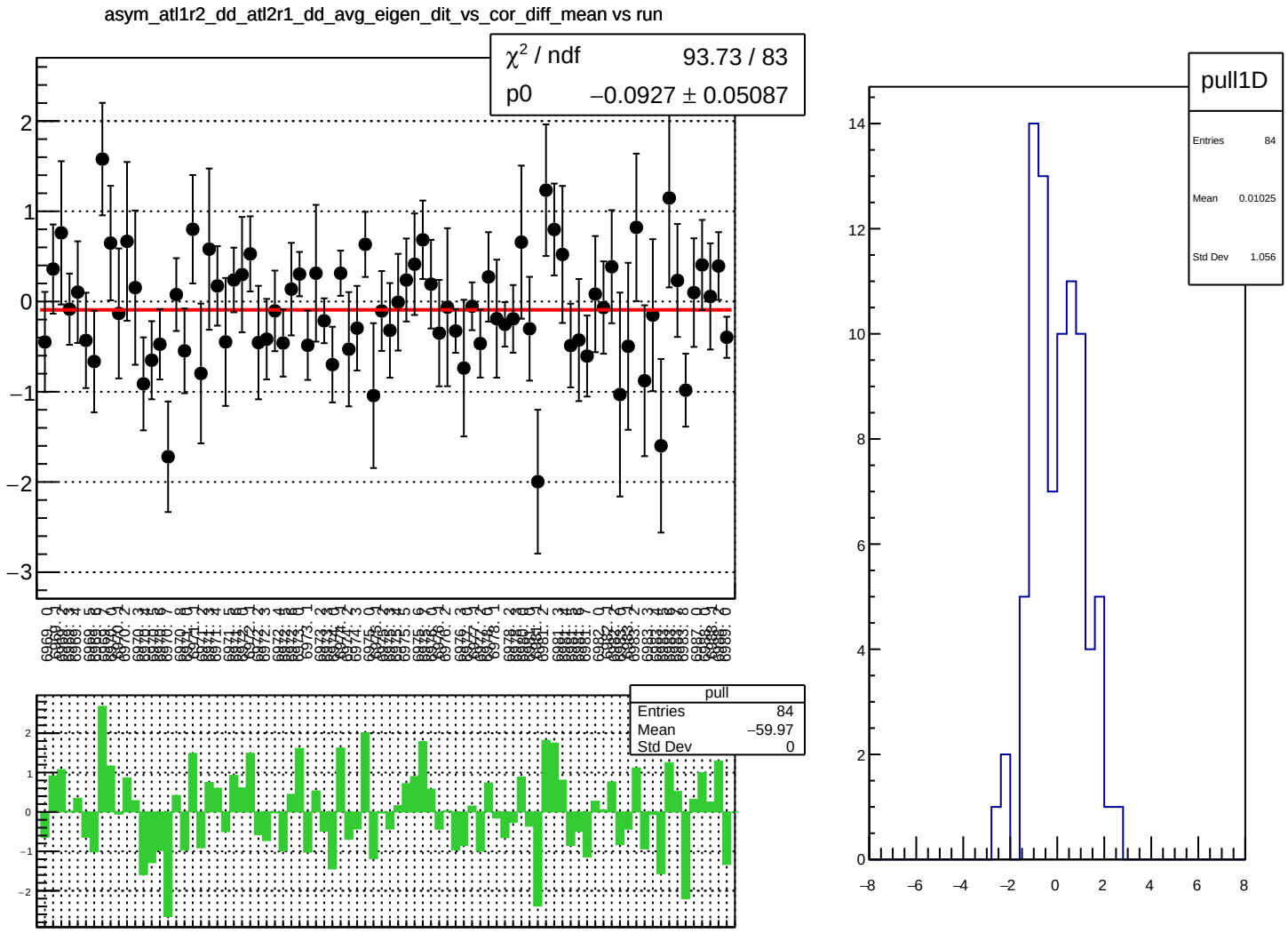

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.72 / 83
p0 −0.09271 ± 0.05087
pull
Entries 84
Mean −59.9
Std Dev 0
pull1D
Entries 84
Mean 0.01027
Std Dev 1.056

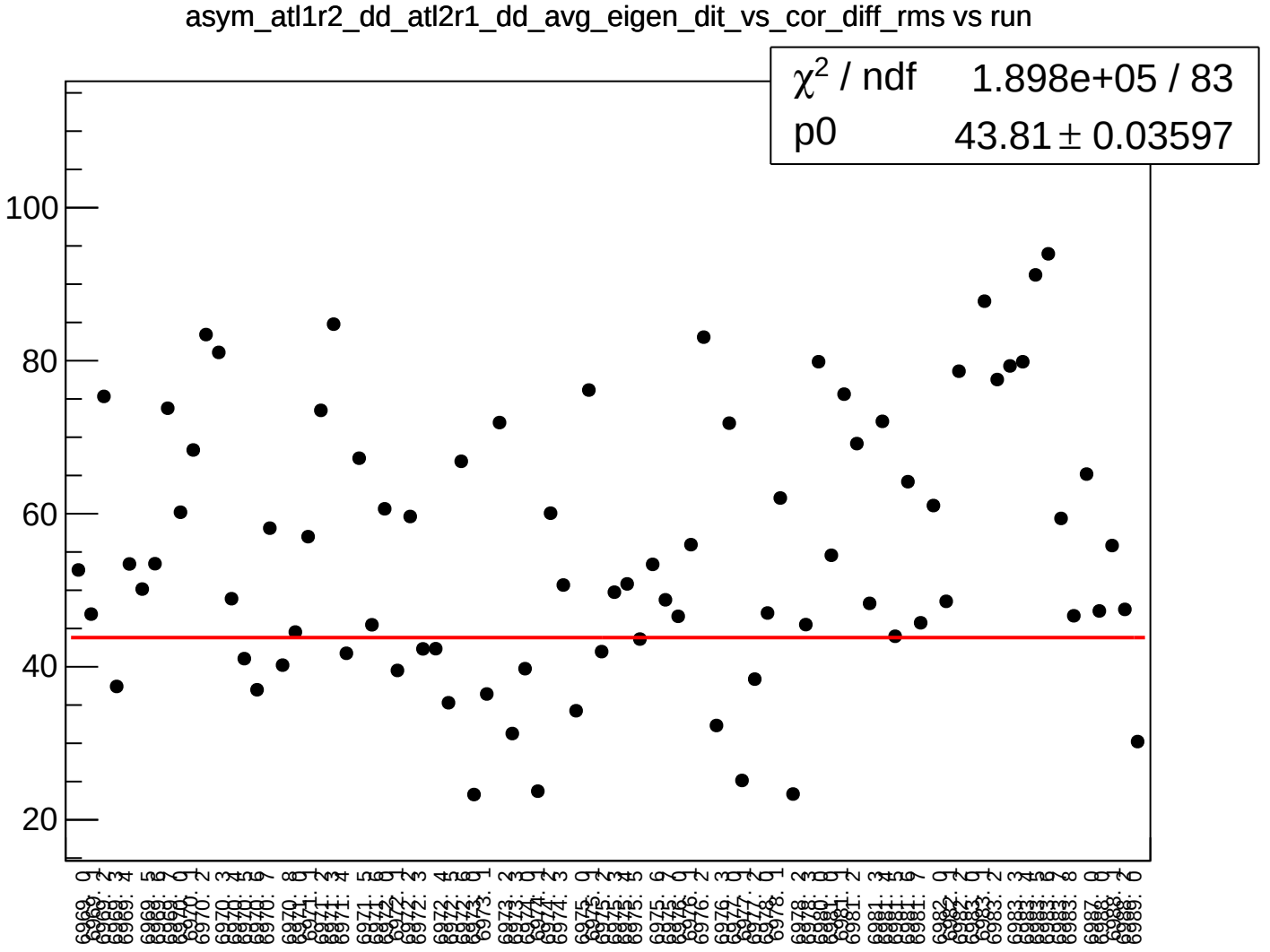

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.898e+05 / 83
p0 43.81 ± 0.03597
100
80
60
40
20

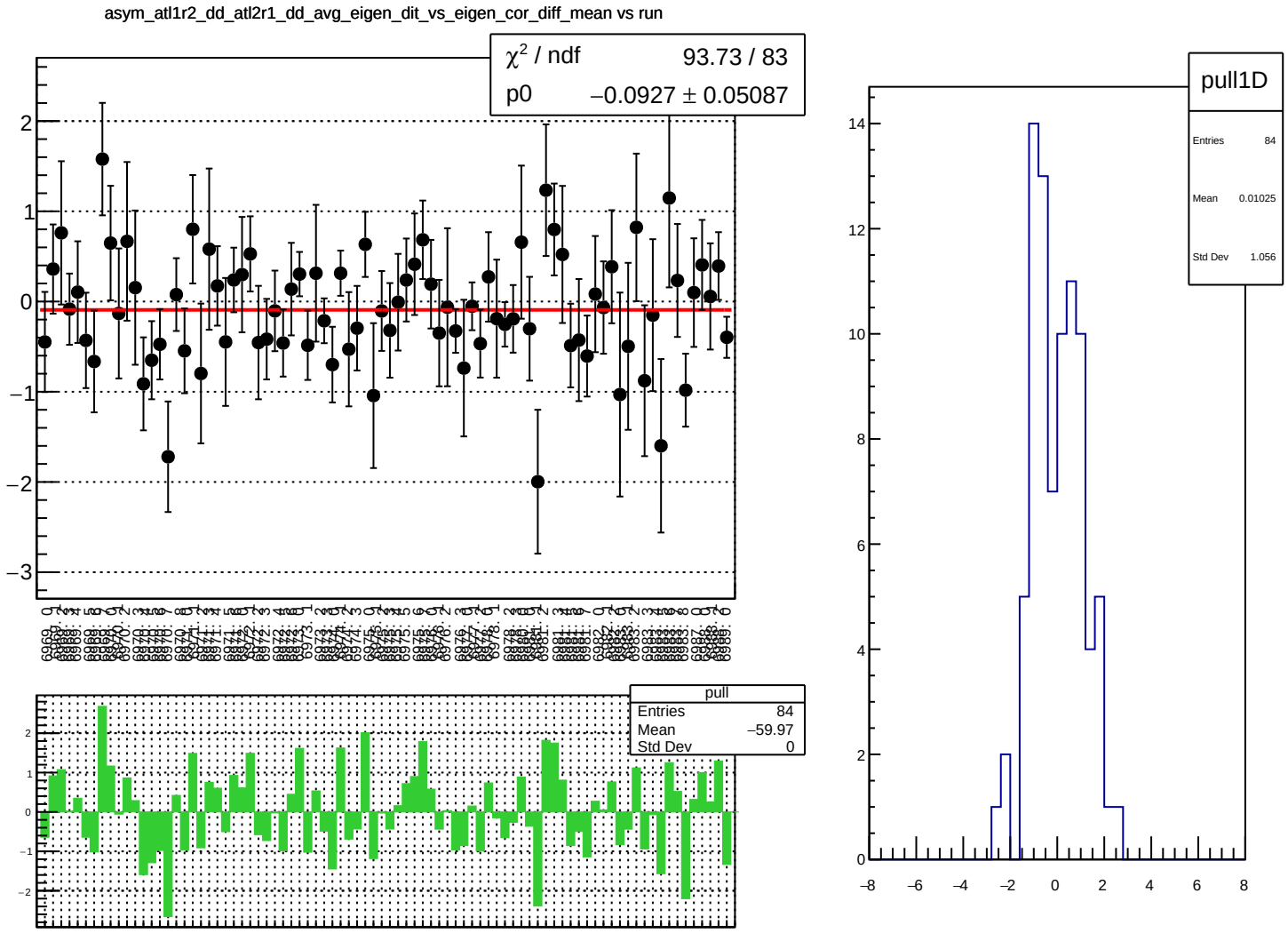

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 110.2 / 83
p0 −5.553e−06 ± 6.285e−06
pull
Entries 84
Mean −166.6
Std Dev 0

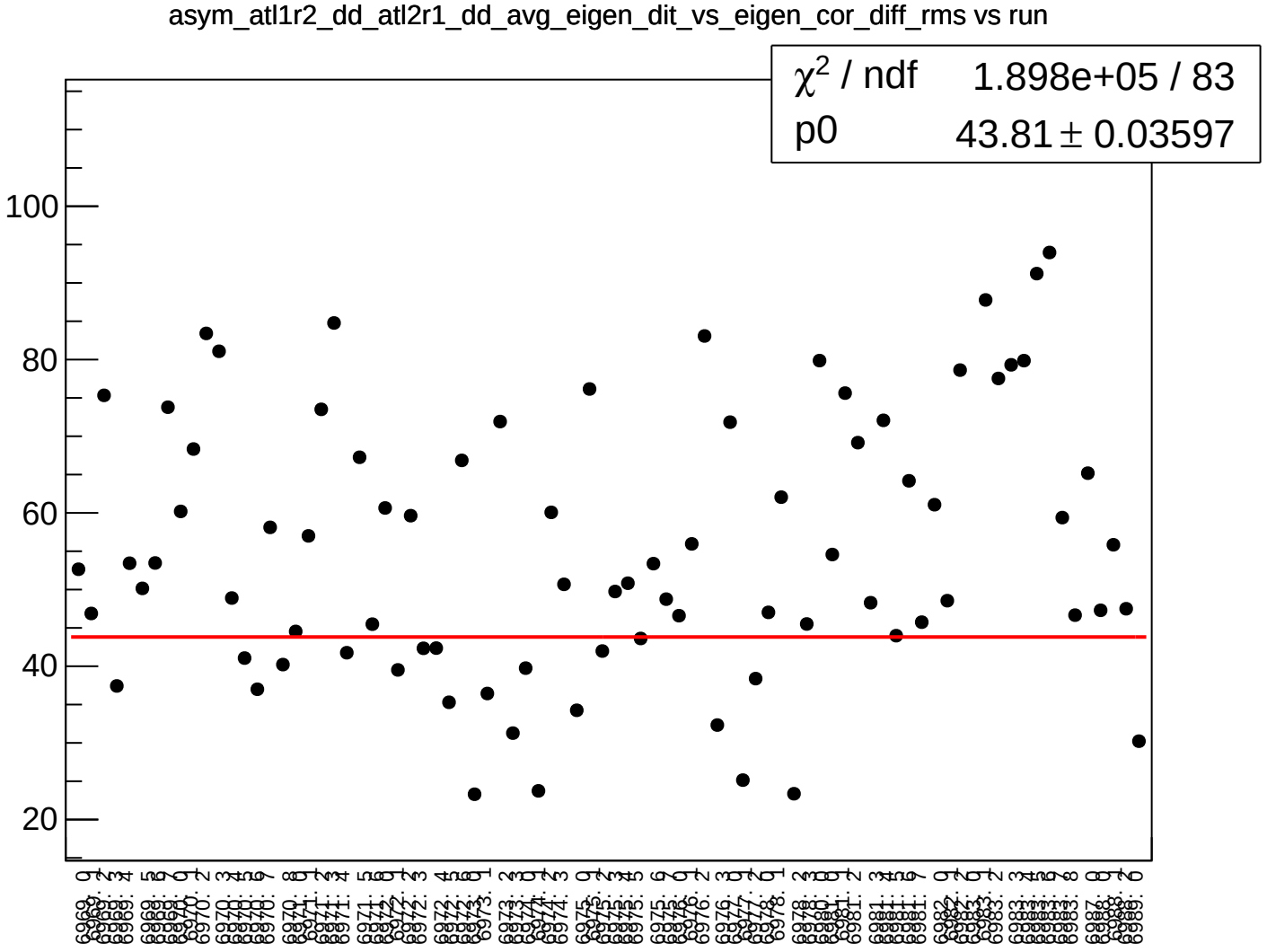

pull1D
Entries 84
Mean −0.03338
Std Dev 1.145

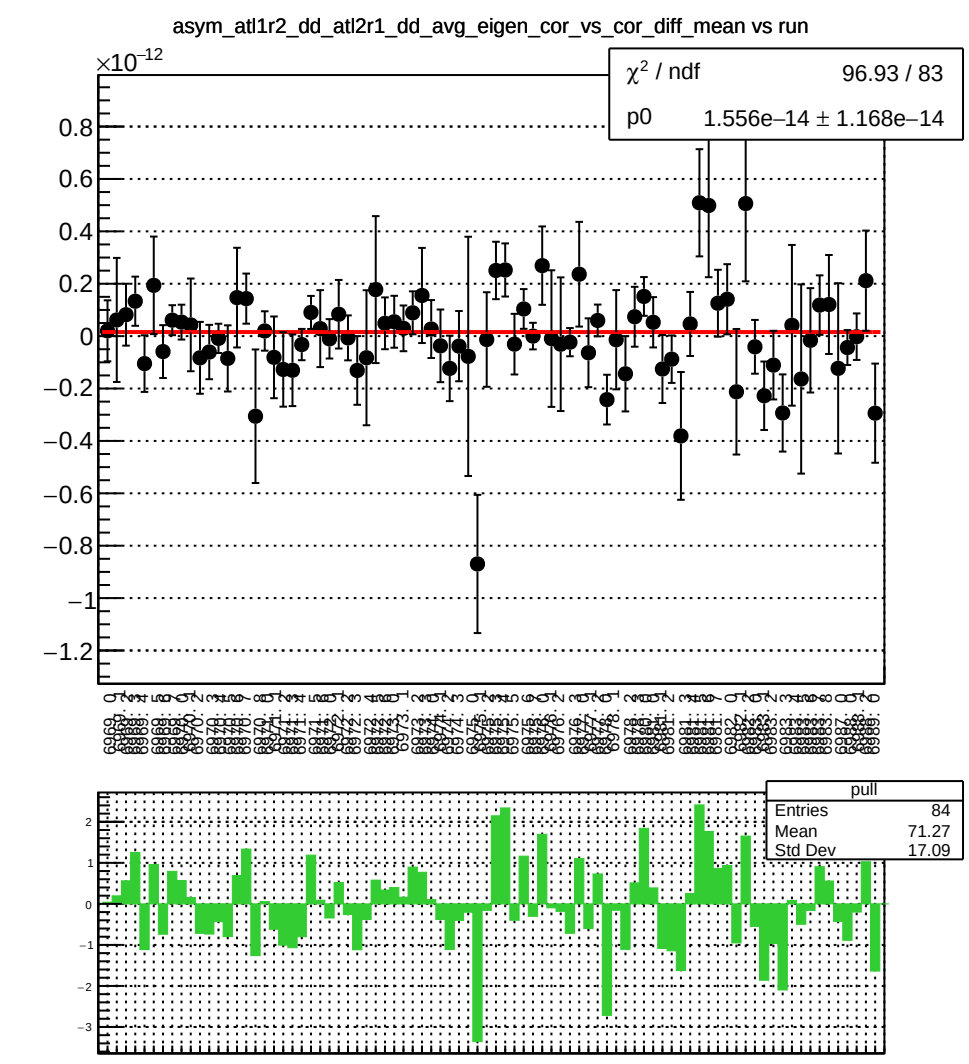

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.781e+04 / 83
p0 0.005718 ± 4.444e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045

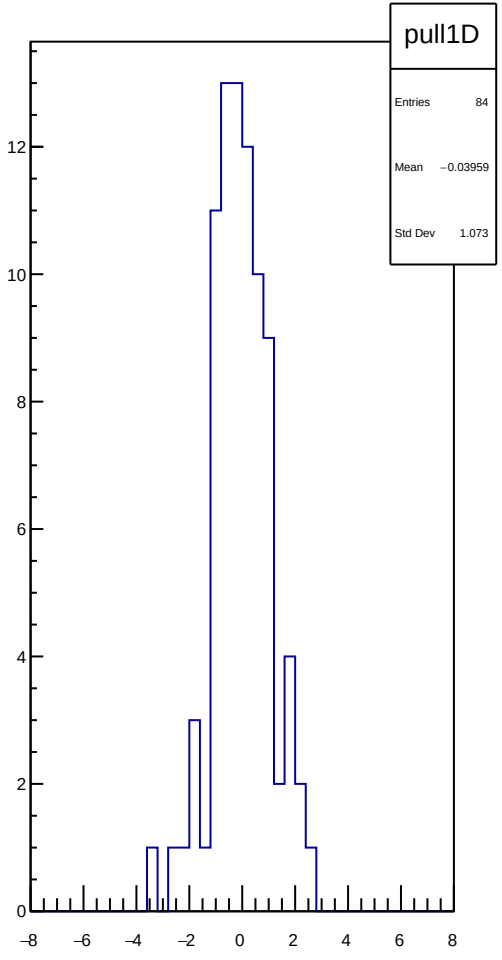

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.73 / 83
p0 −0.0927 ± 0.05087
pull
Entries 84
Mean −59.97
Std Dev 0
pull1D
Entries 84
Mean 0.01025
Std Dev 1.056

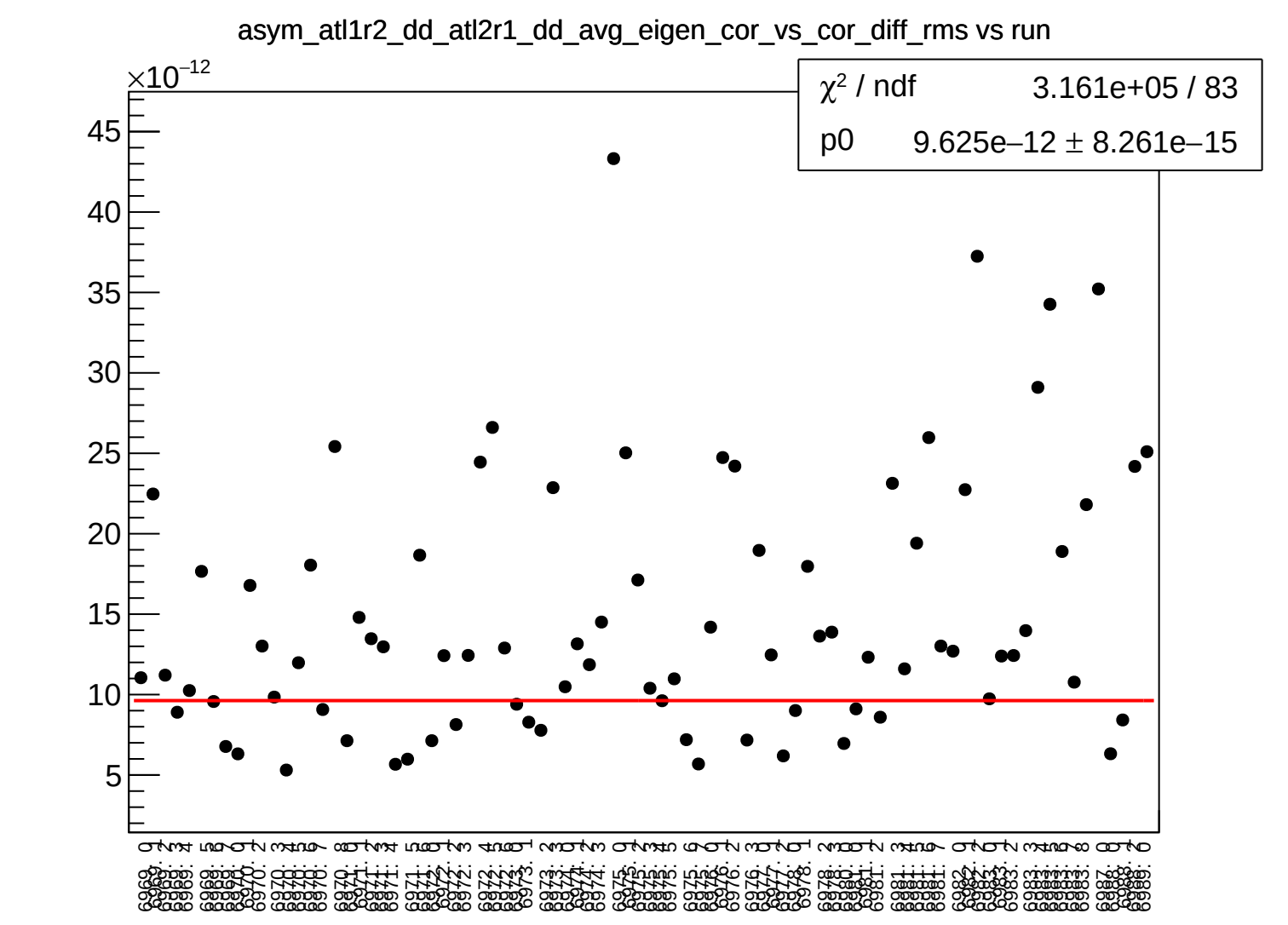

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.898e+05 / 83
p0 43.81 ± 0.03597
100
80
60
40
20

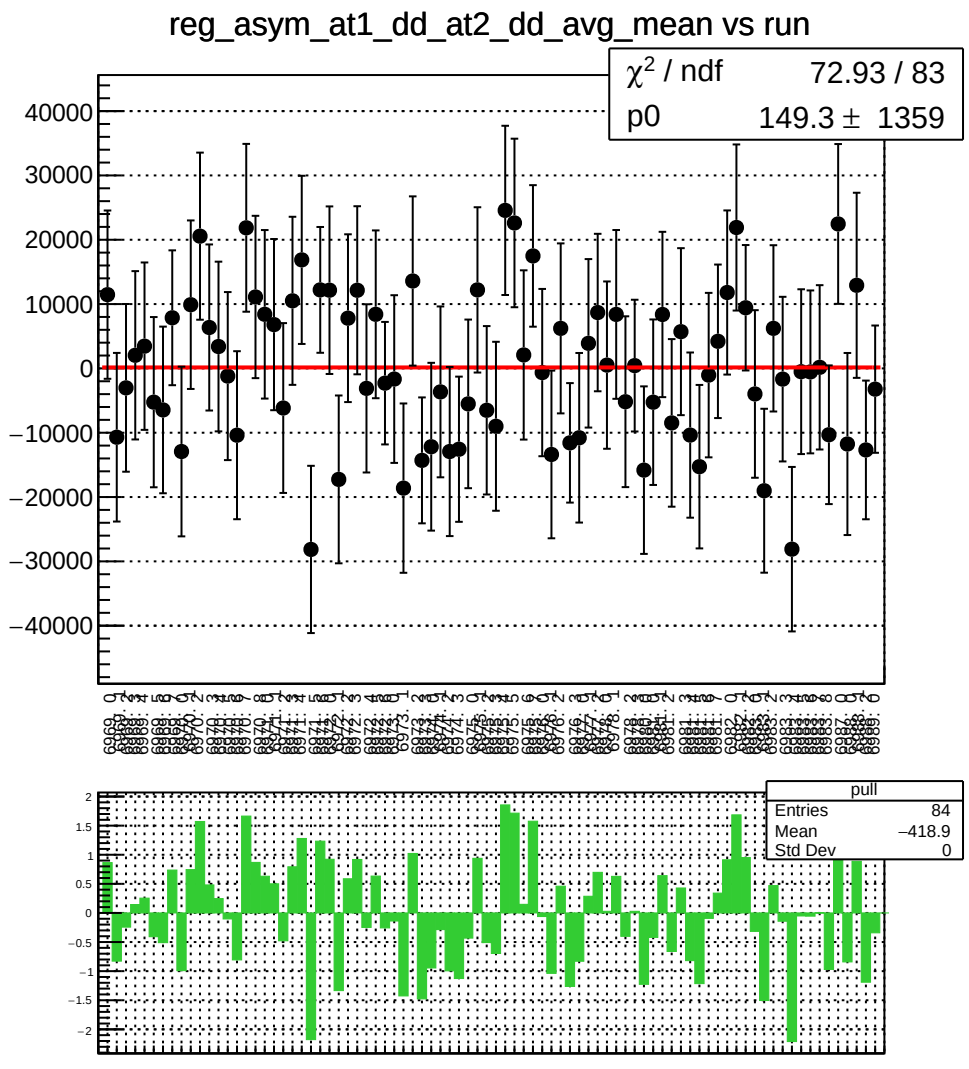

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.73 / 83
p0 −0.0927 ± 0.05087
pull
Entries 84
Mean −59.97
Std Dev 0
pull1D
Entries 84
Mean 0.01025
Std Dev 1.056

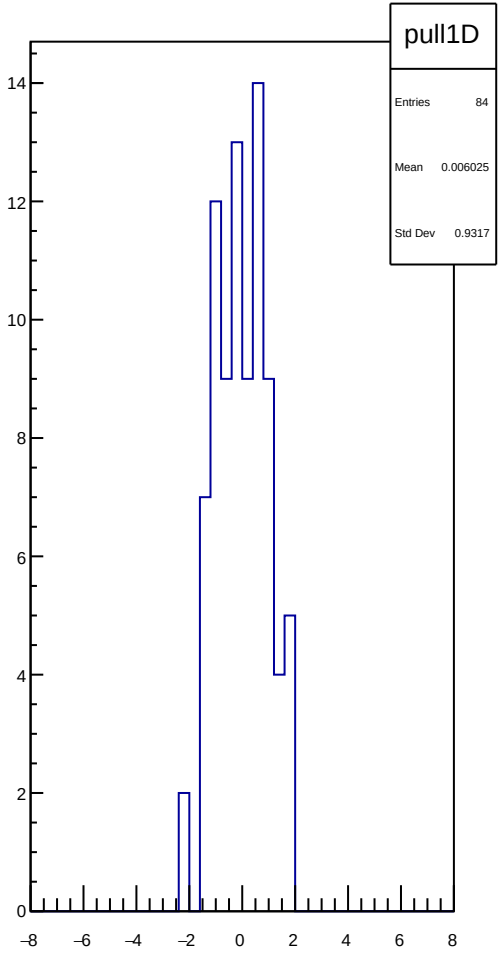

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.898e+05 / 83
p0 43.81 ± 0.03597
100
80
60
40
20

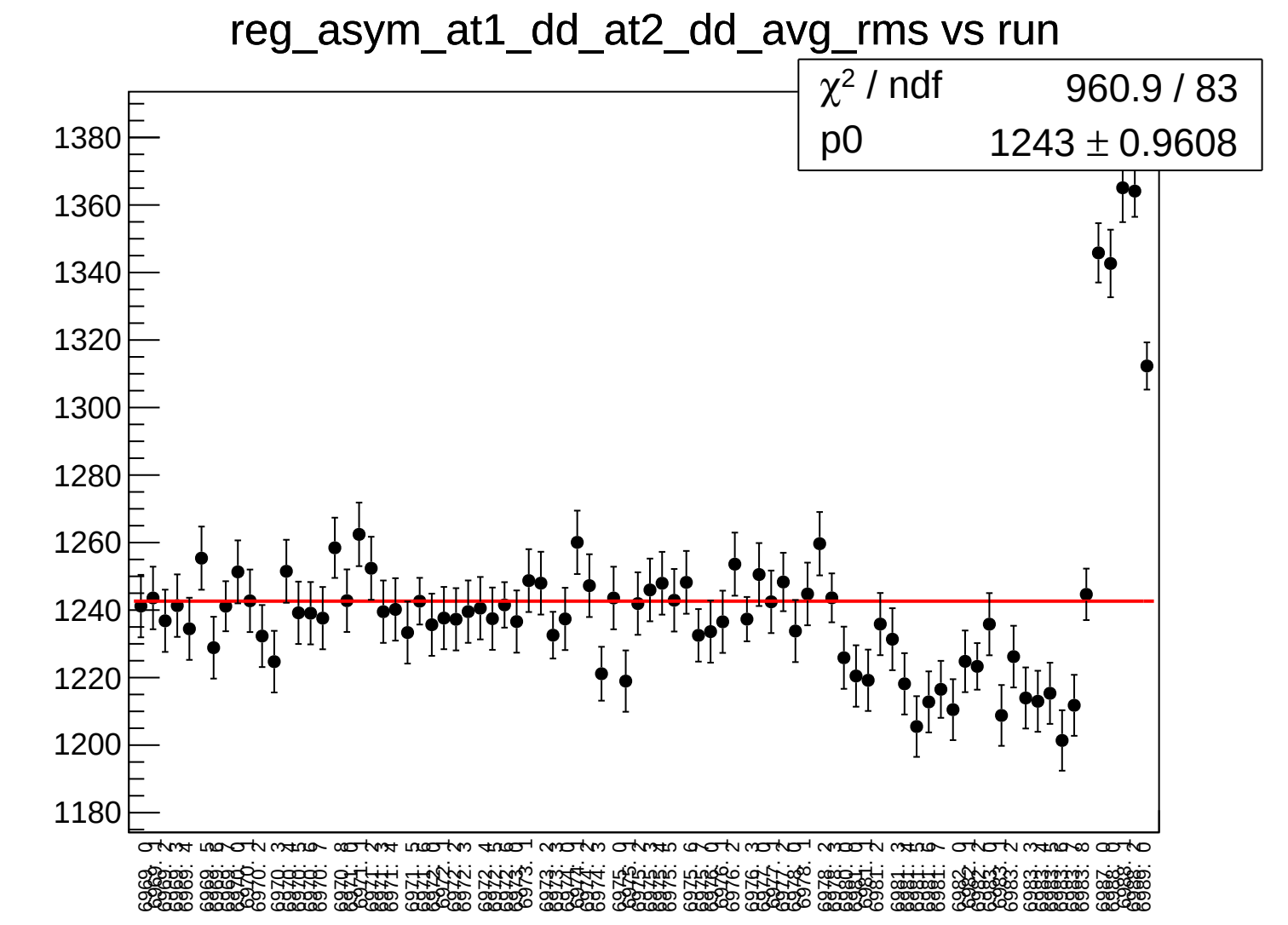

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.93 / 83
p0 1.556e−14 ± 1.168e−14
pull
Entries 84
Mean 71.27
Std Dev 17.09

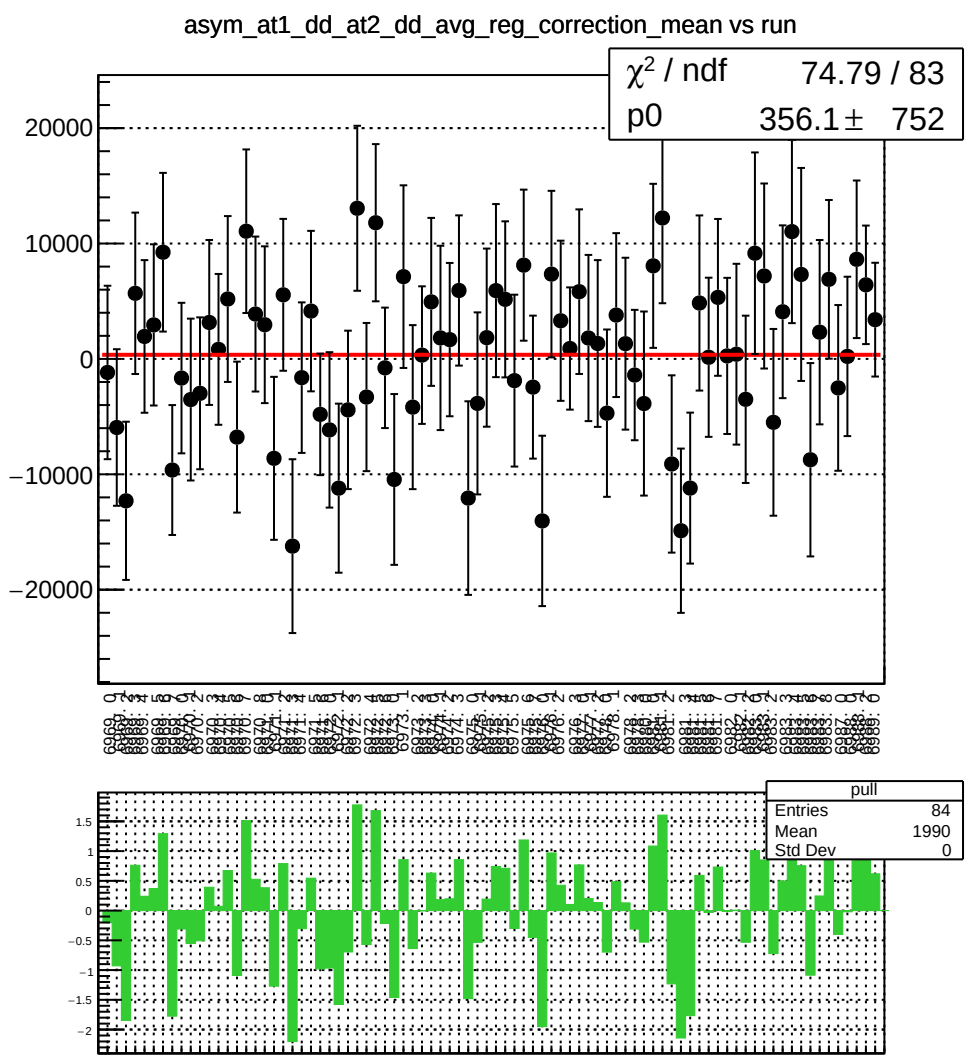

pull1D
Entries 84
Mean −0.03959
Std Dev 1.073

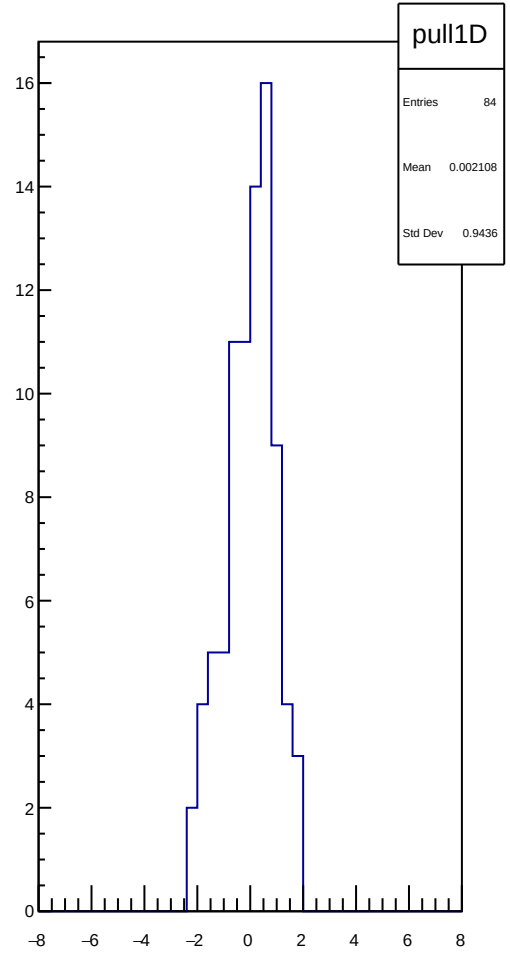

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.161e+05 / 83
p0 9.625e−12 ± 8.261e−15
45
40
35
30
25
20
15
10
5

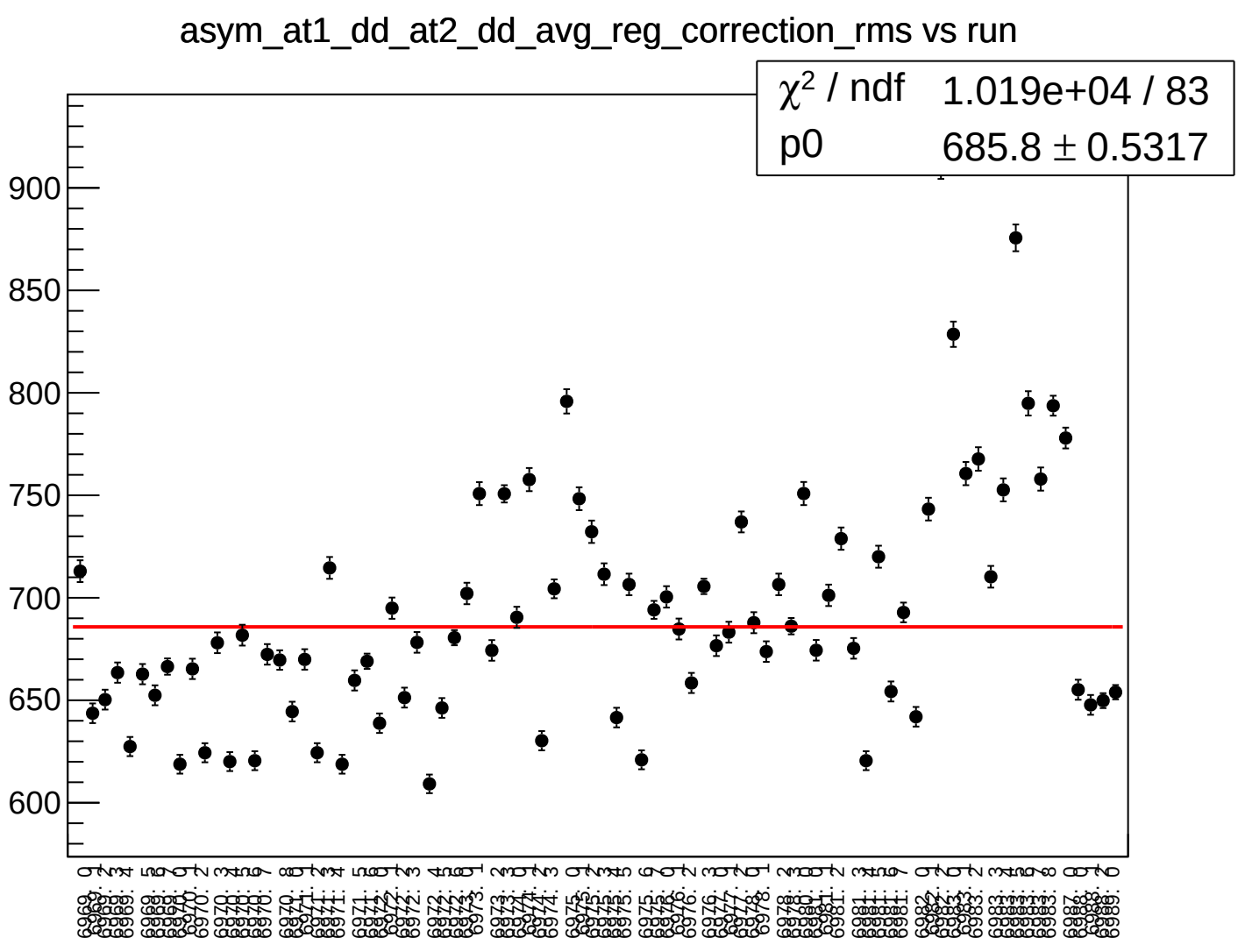

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 72.93 / 83
p0 149.3 ± 1359
pull
Entries 84
Mean −418.9
Std Dev 0

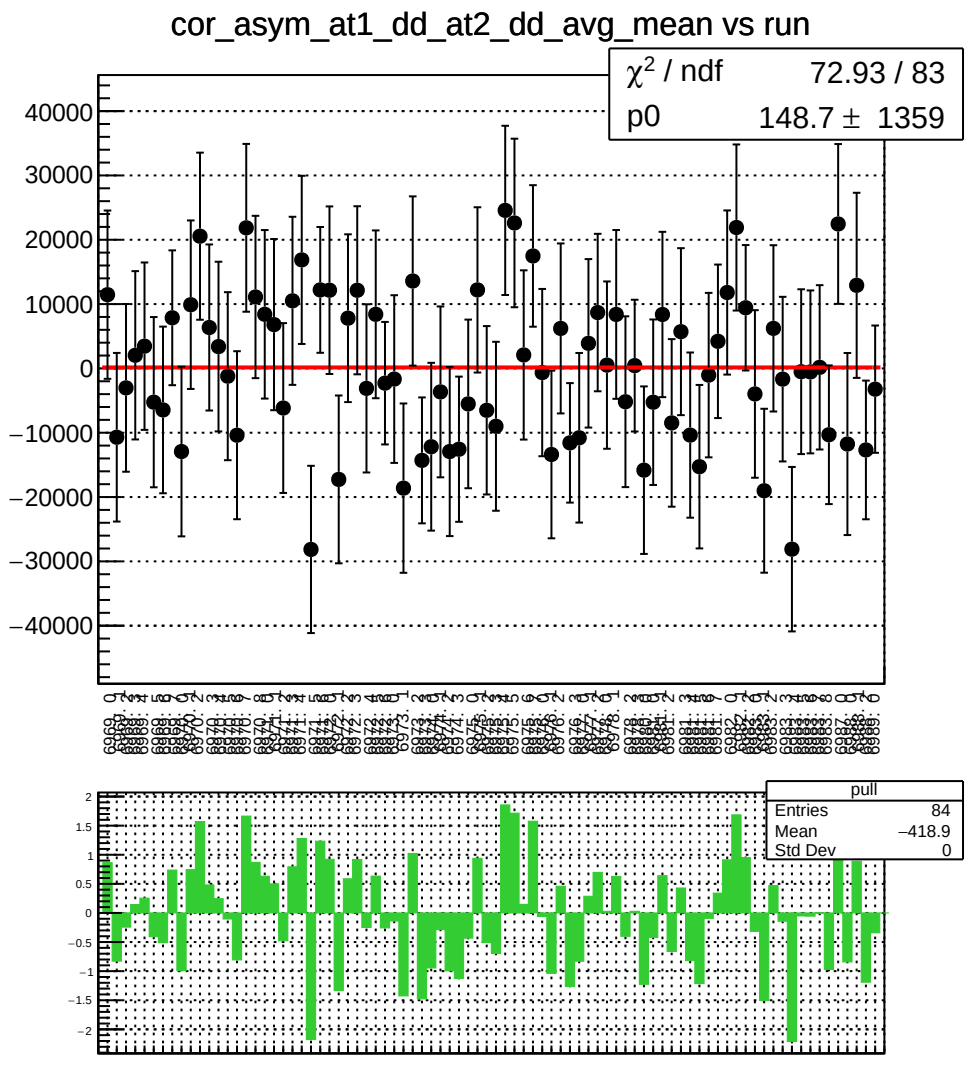

pull1D
Entries 84
Mean 0.006025
Std Dev 0.9317

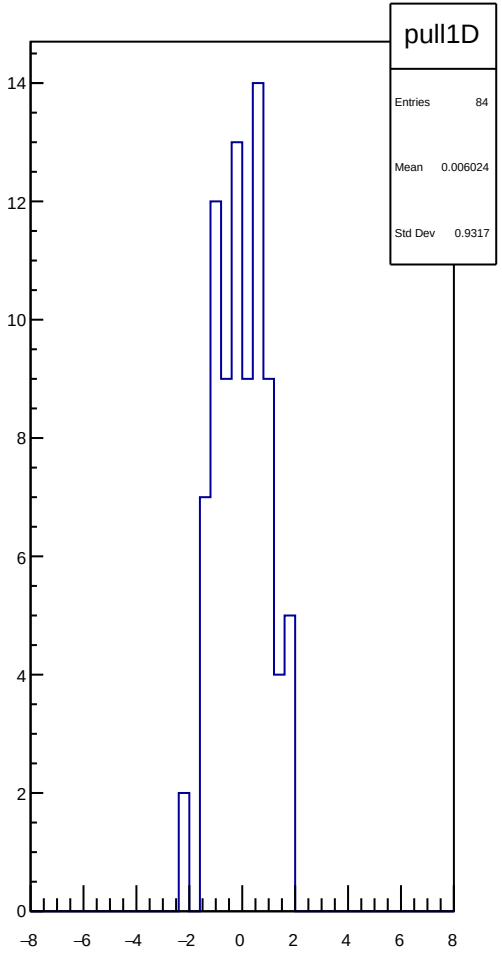

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 960.9 / 83
p0 1243 ± 0.9608
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

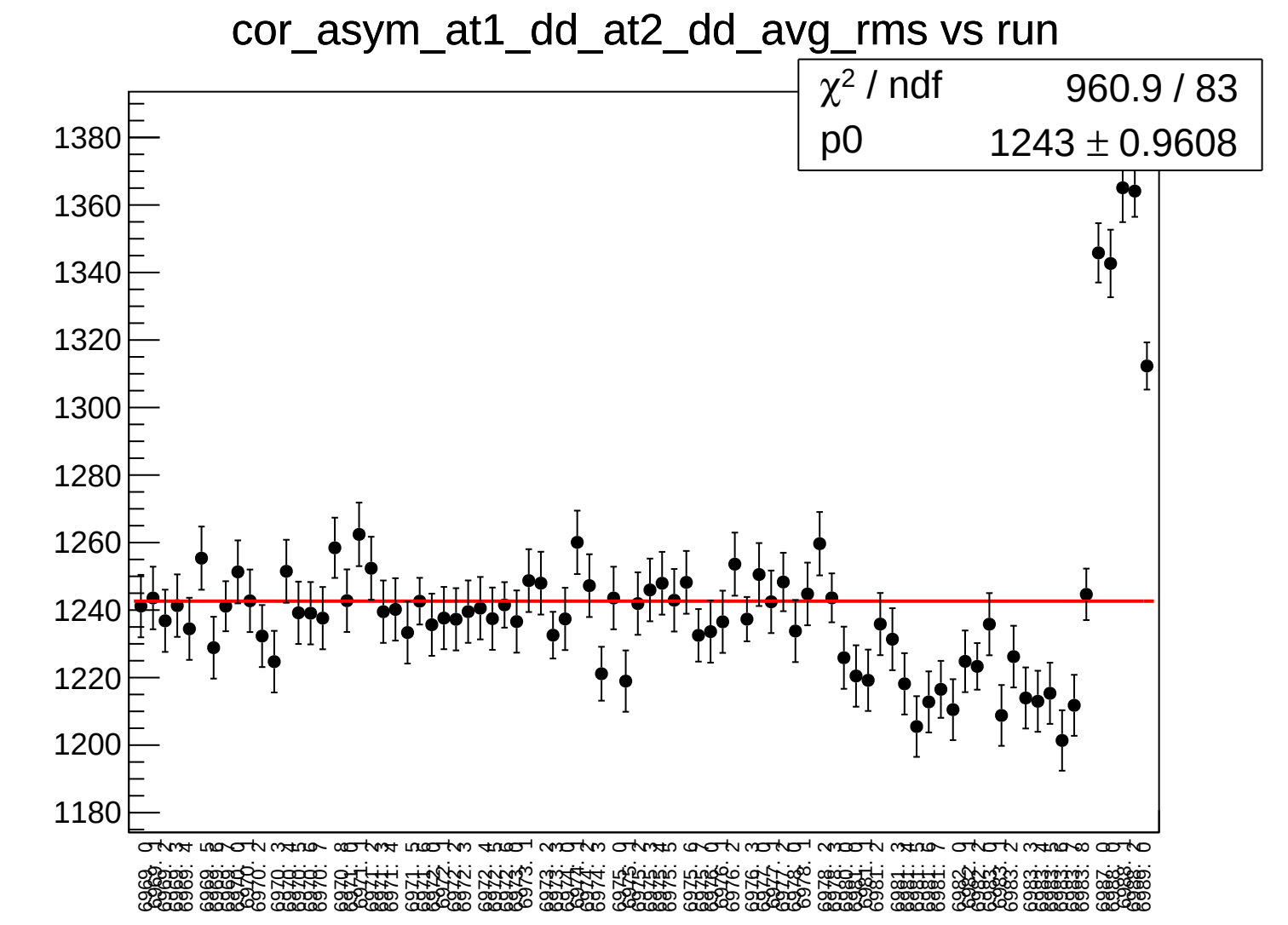

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 74.79 / 83
p0 356.1 ± 752
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1990
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

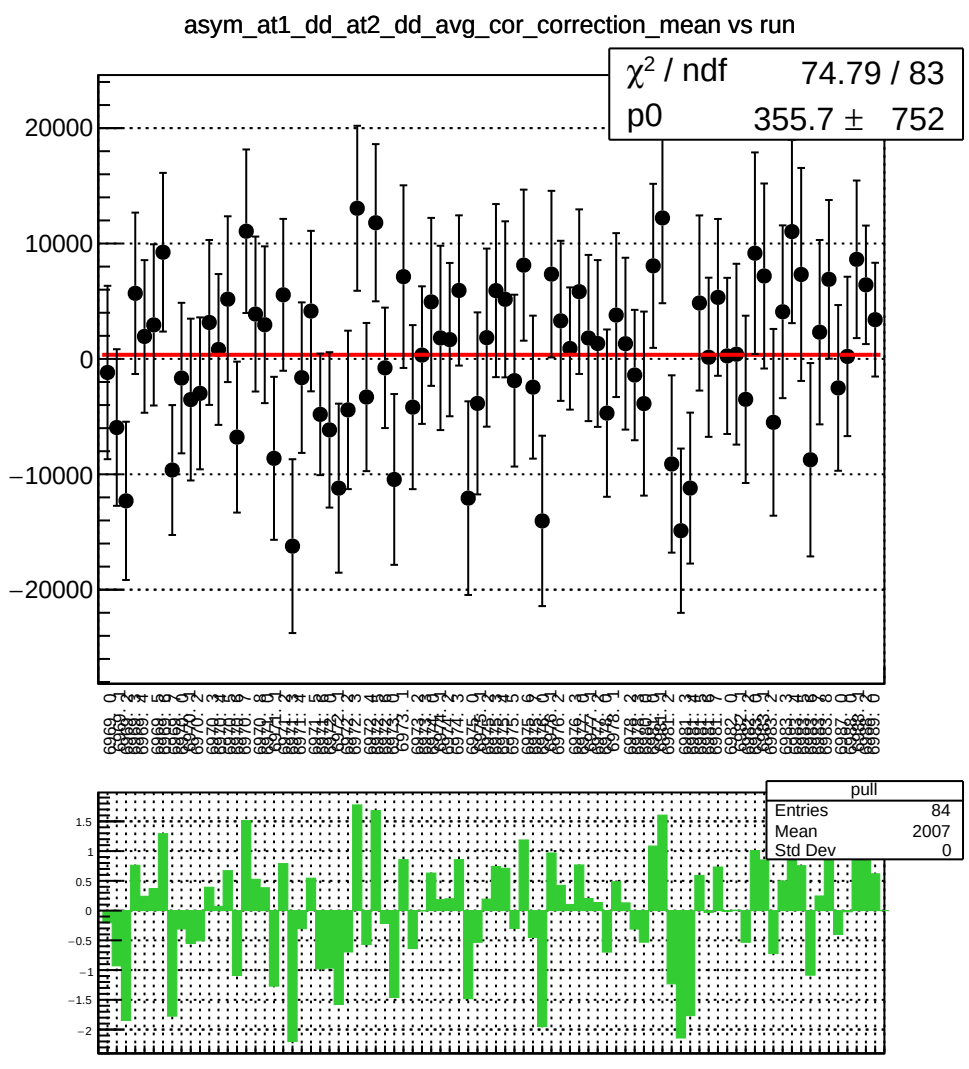

pull1D
Entries 84
Mean 0.002108
Std Dev 0.9436
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

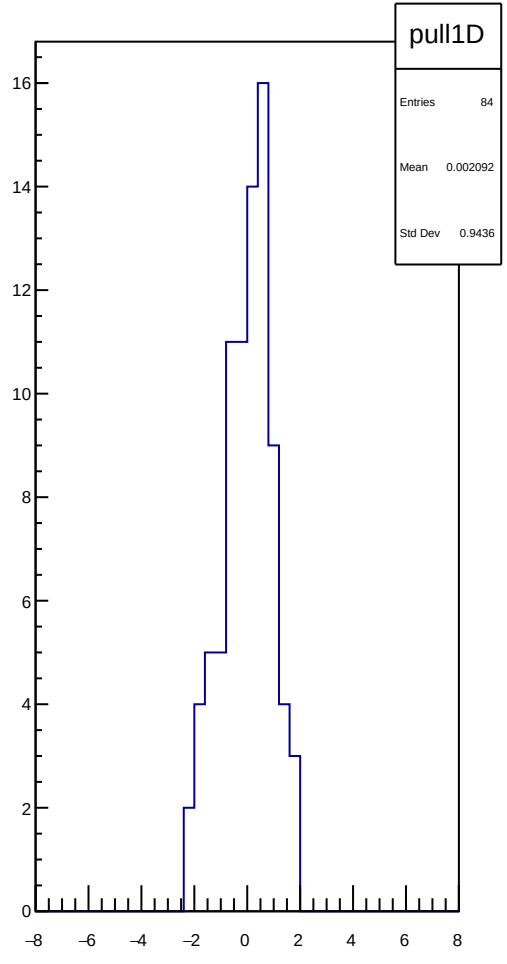

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.019e+04 / 83
p0 685.8 ± 0.5317
900
850
800
750
700
650
600

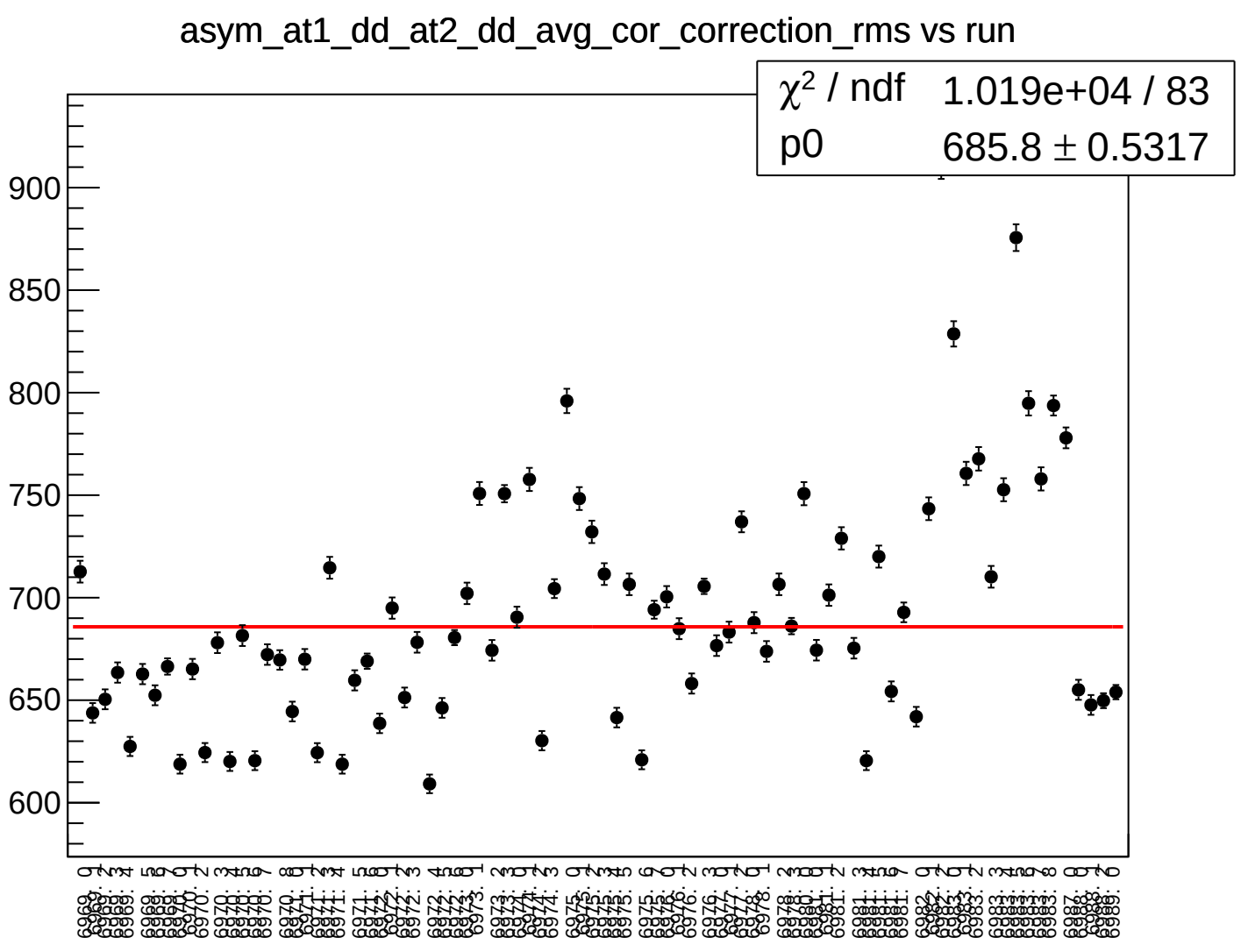

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 72.93 / 83
p0 148.7 ± 1359
pull
Entries 84
Mean −418.9
Std Dev 0

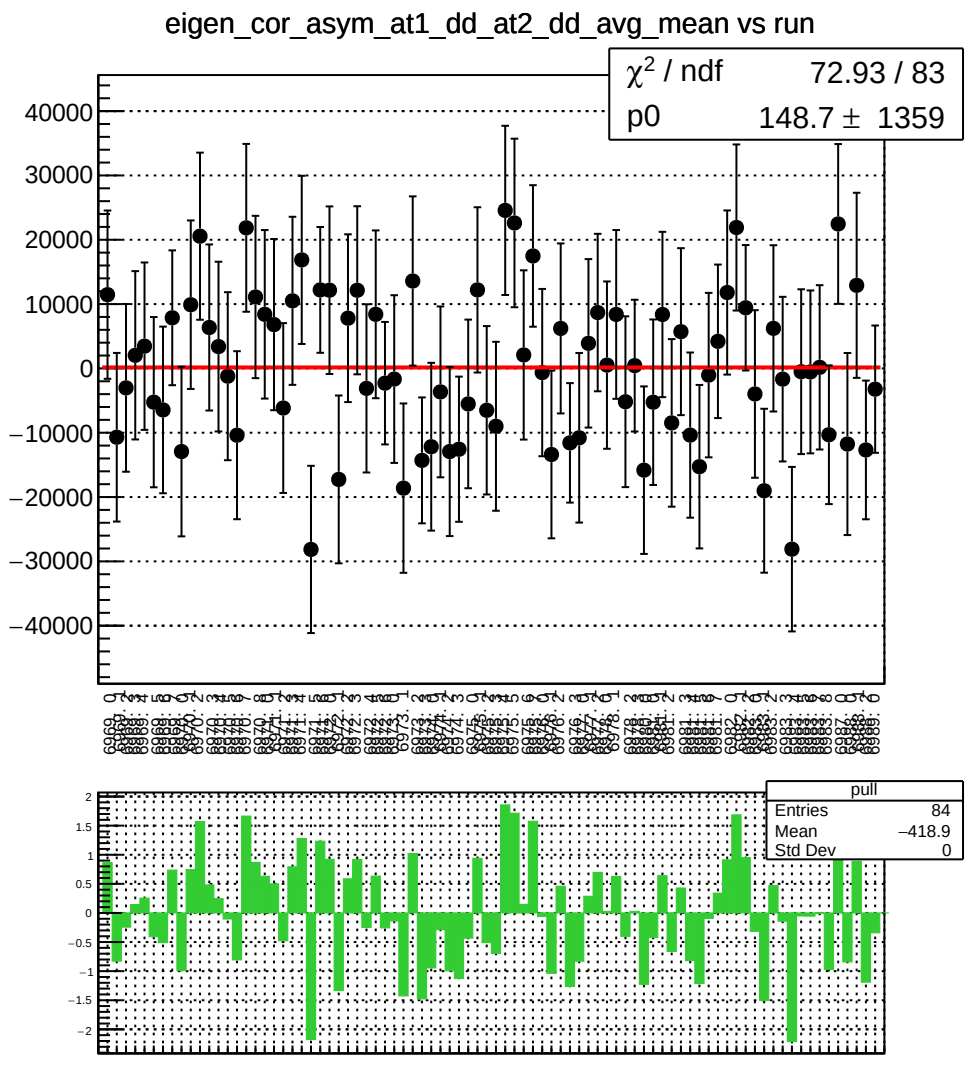

pull1D
Entries 84
Mean 0.006024
Std Dev 0.9317

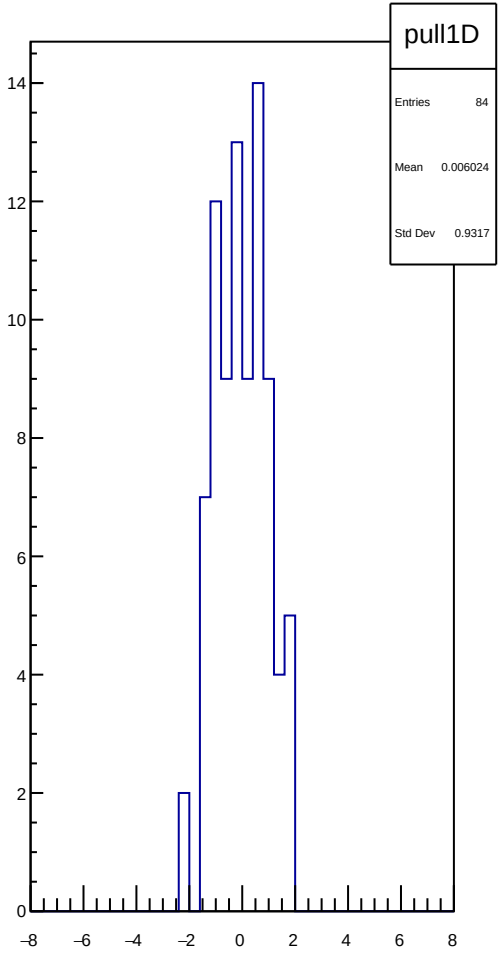

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 960.9 / 83
p0 1243 ± 0.9608
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

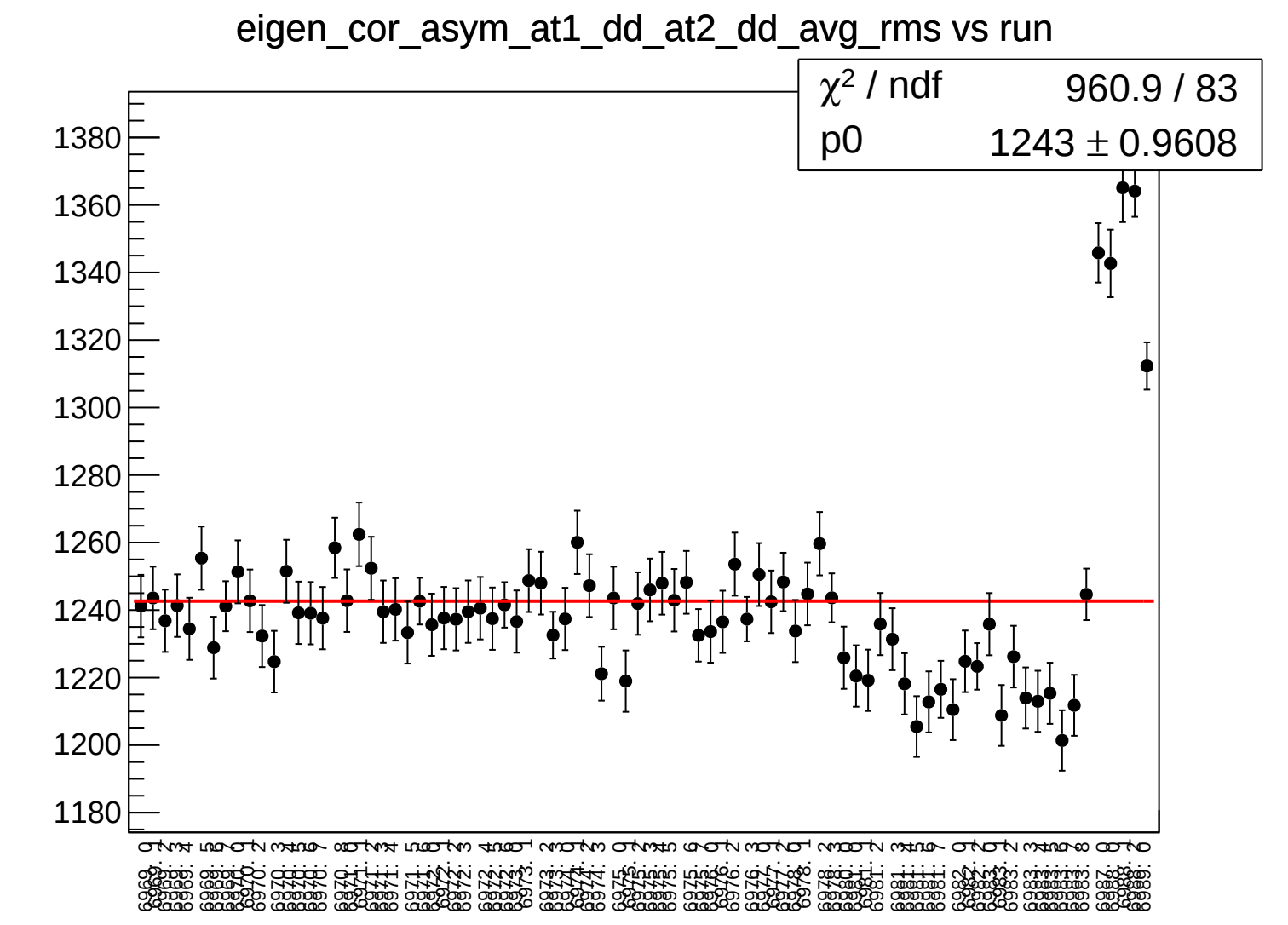

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 74.79 / 83
p0 355.7 ± 752
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 2007
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

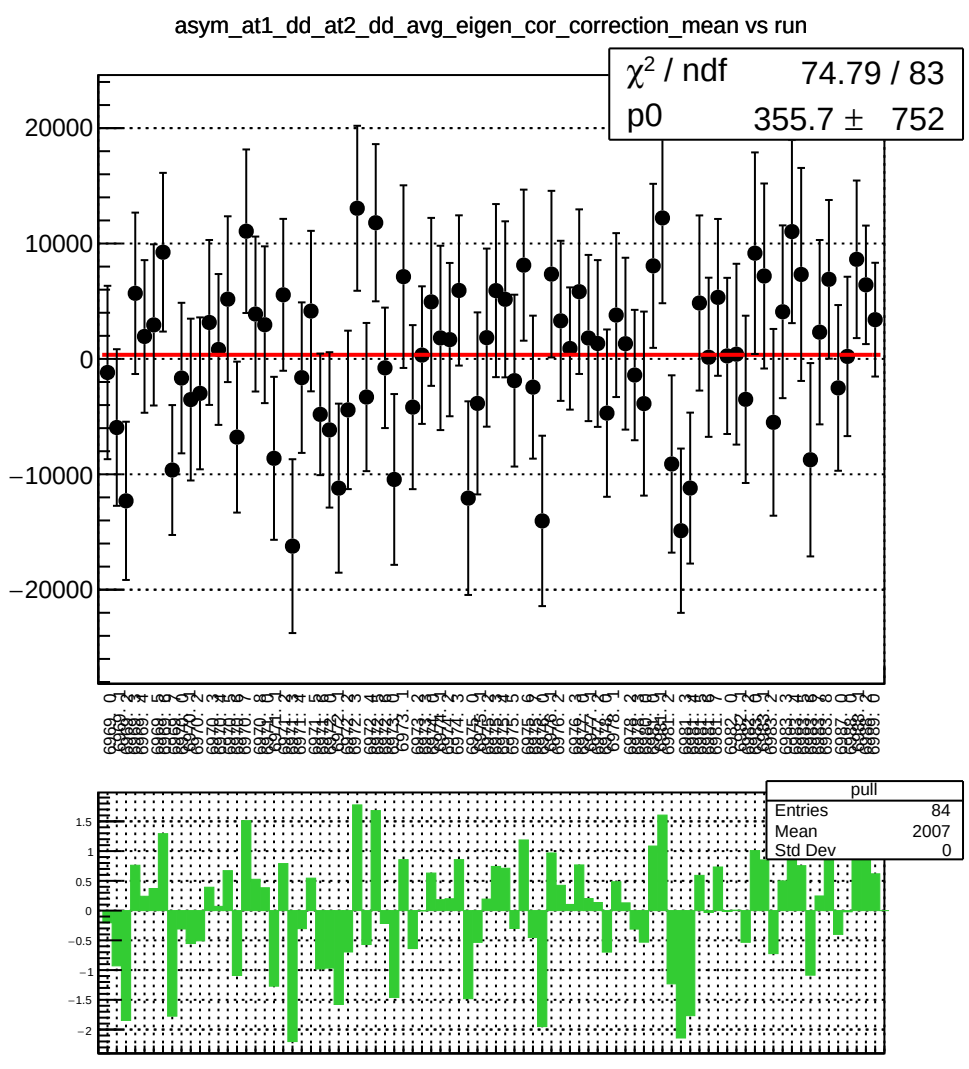

pull1D
Entries 84
Mean 0.002092
Std Dev 0.9436
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

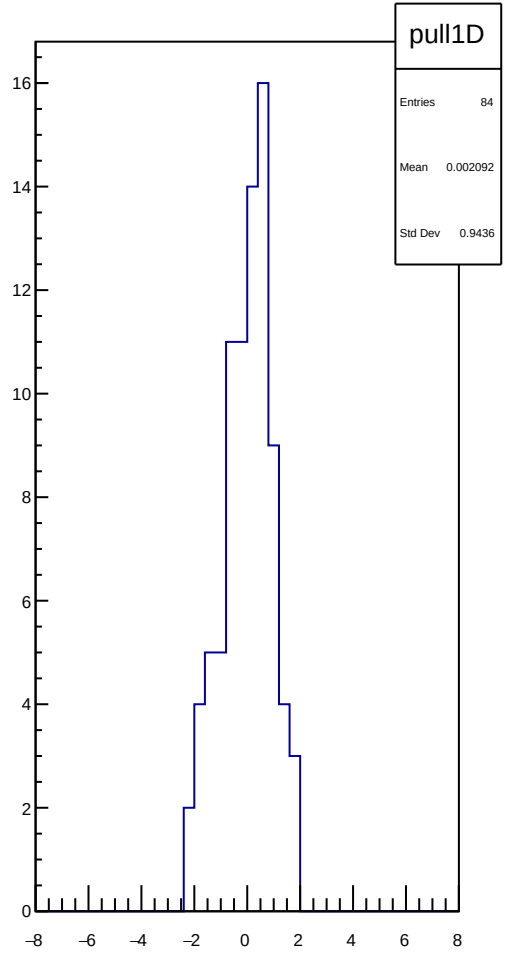

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.019e+04 / 83
p0 685.8 ± 0.5317
900
850
800
750
700
650
600

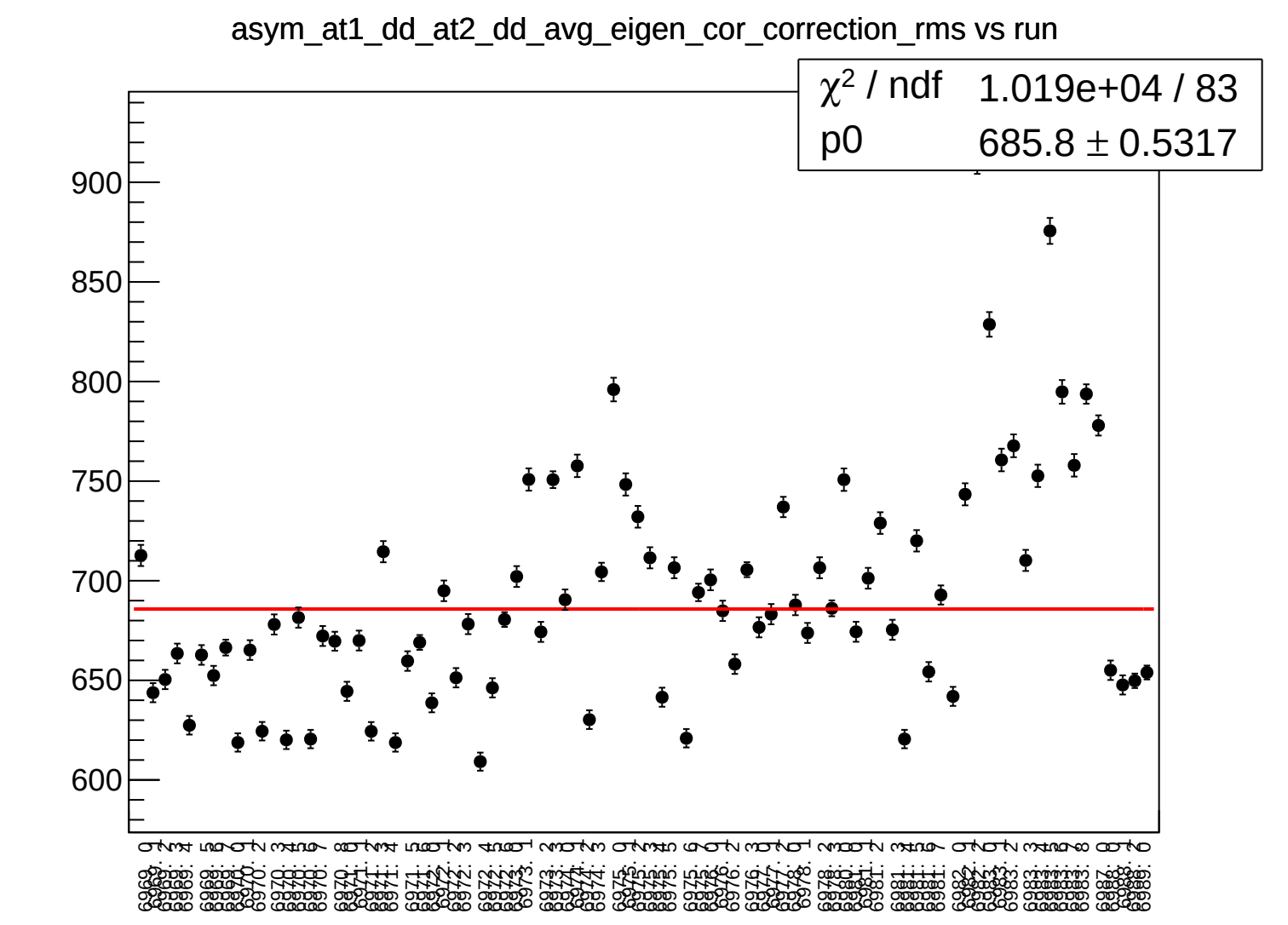

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 72.93 / 83
p0 148.7 ± 1359
pull
Entries 84
Mean −418.9
Std Dev 0

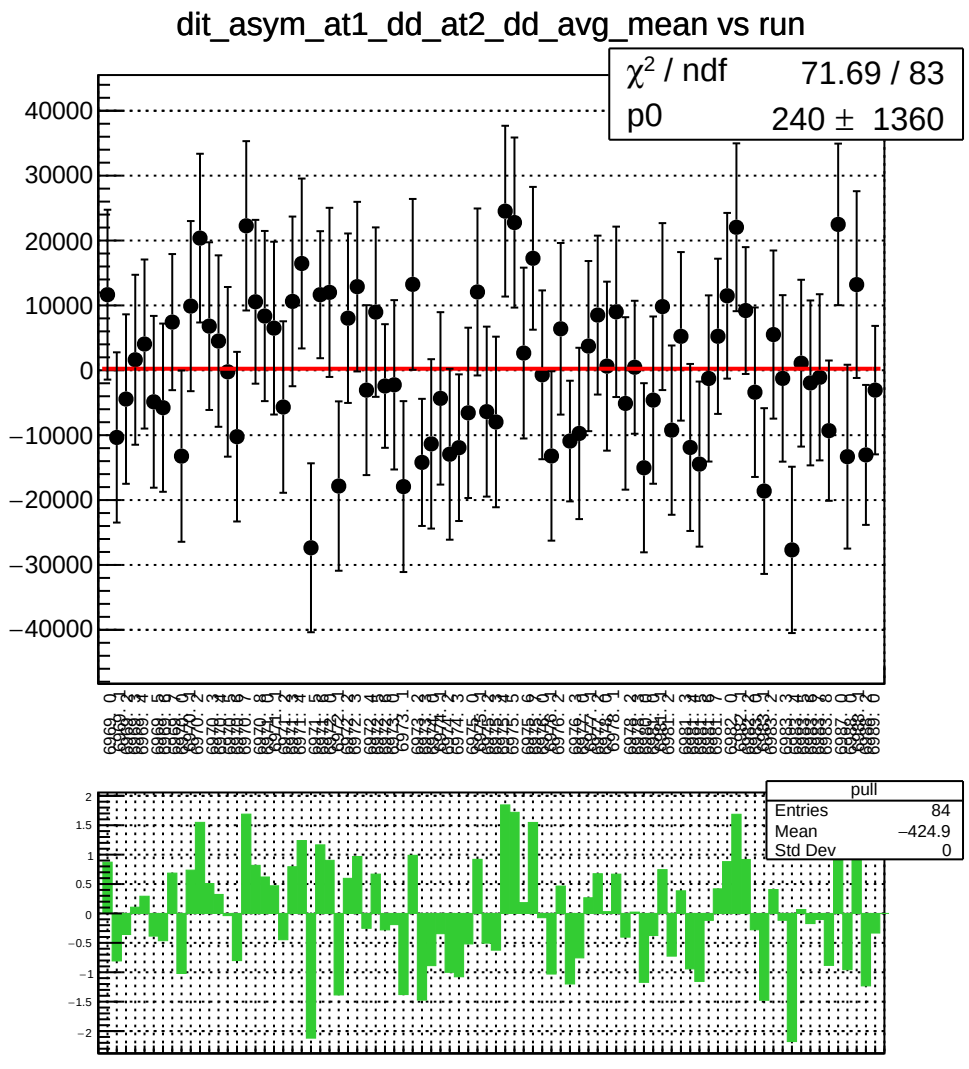

pull1D
Entries 84
Mean 0.006024
Std Dev 0.9317

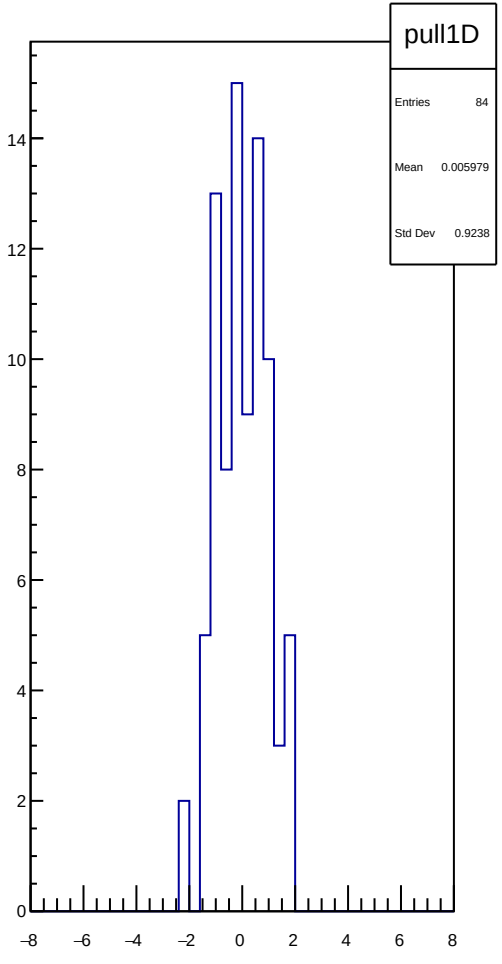

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 960.9 / 83
p0 1243 ± 0.9608
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

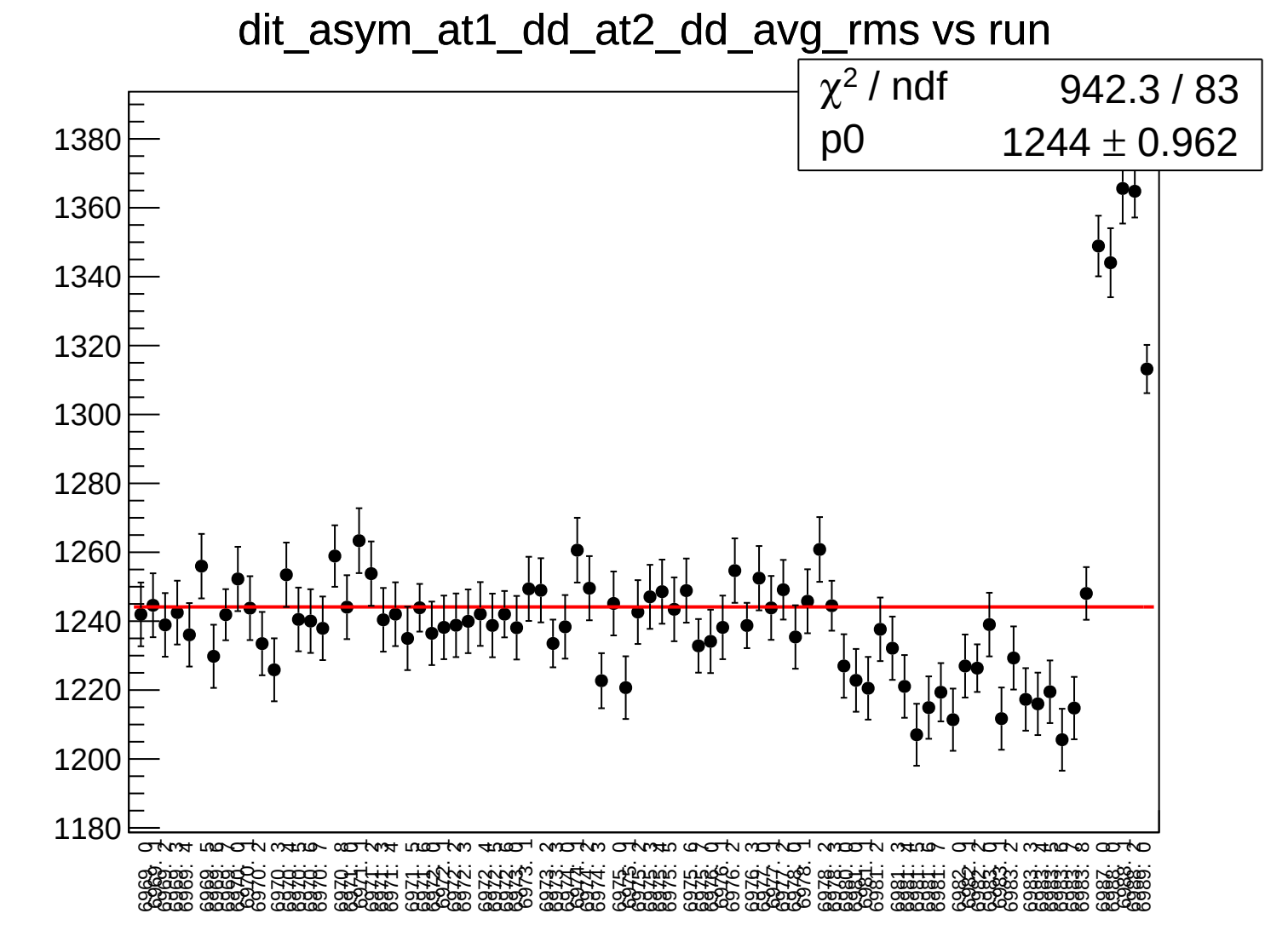

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.79 / 83
p0 355.7 ± 752
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 2007
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

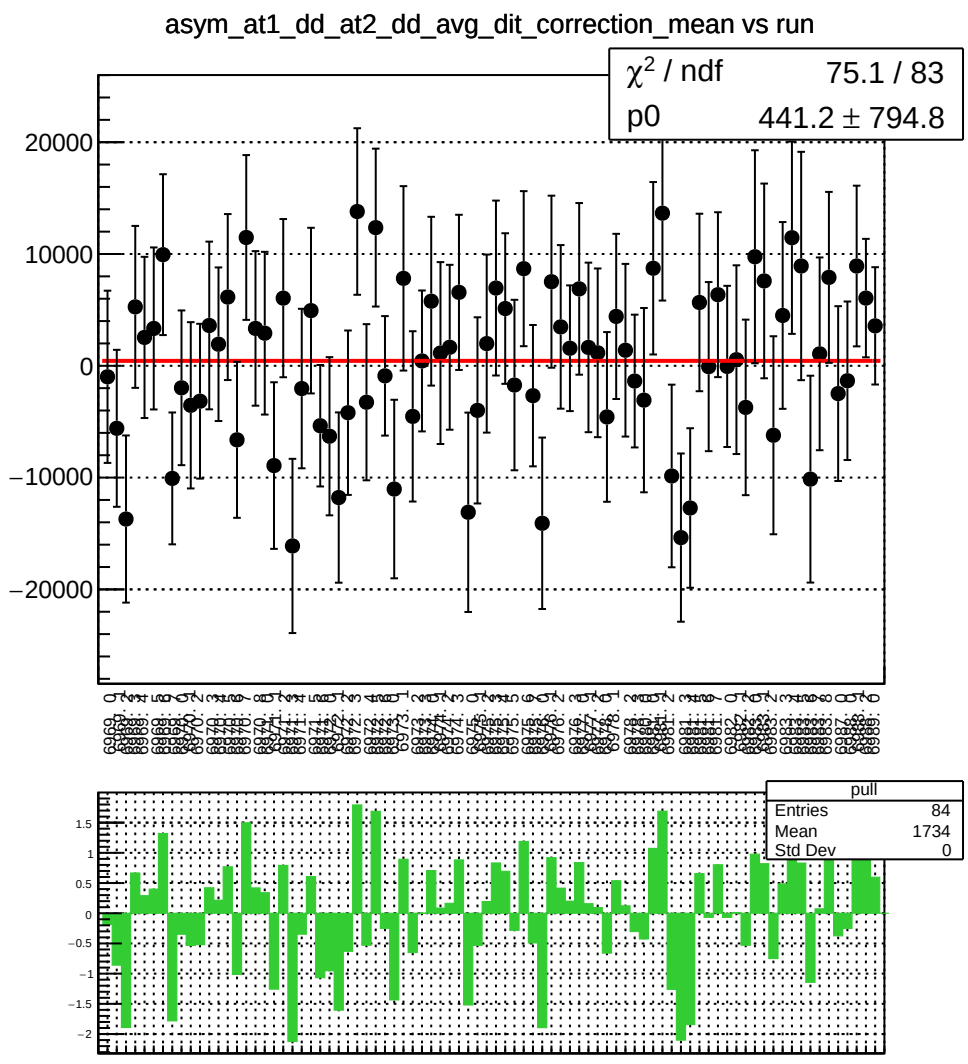

pull1D
Entries 84
Mean 0.002092
Std Dev 0.9436
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

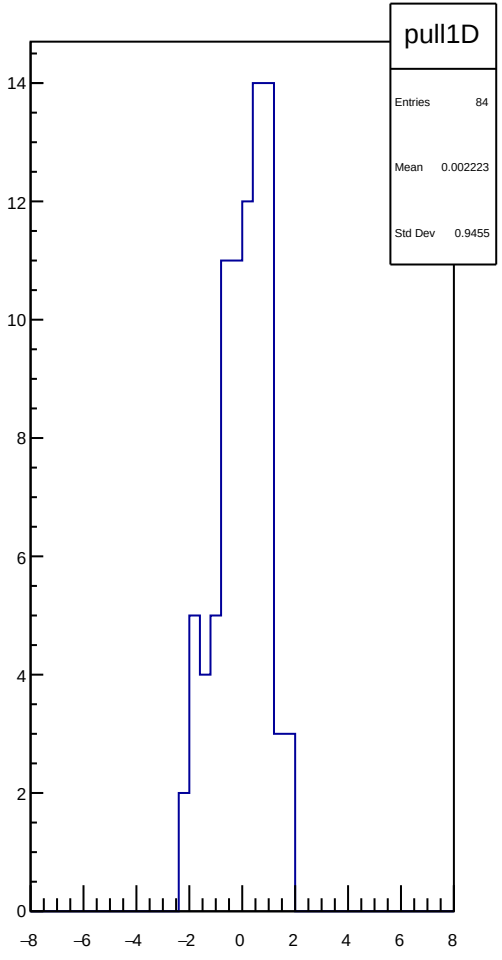

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.019e+04 / 83
p0 685.8 ± 0.5317
900
850
800
750
700
650
600

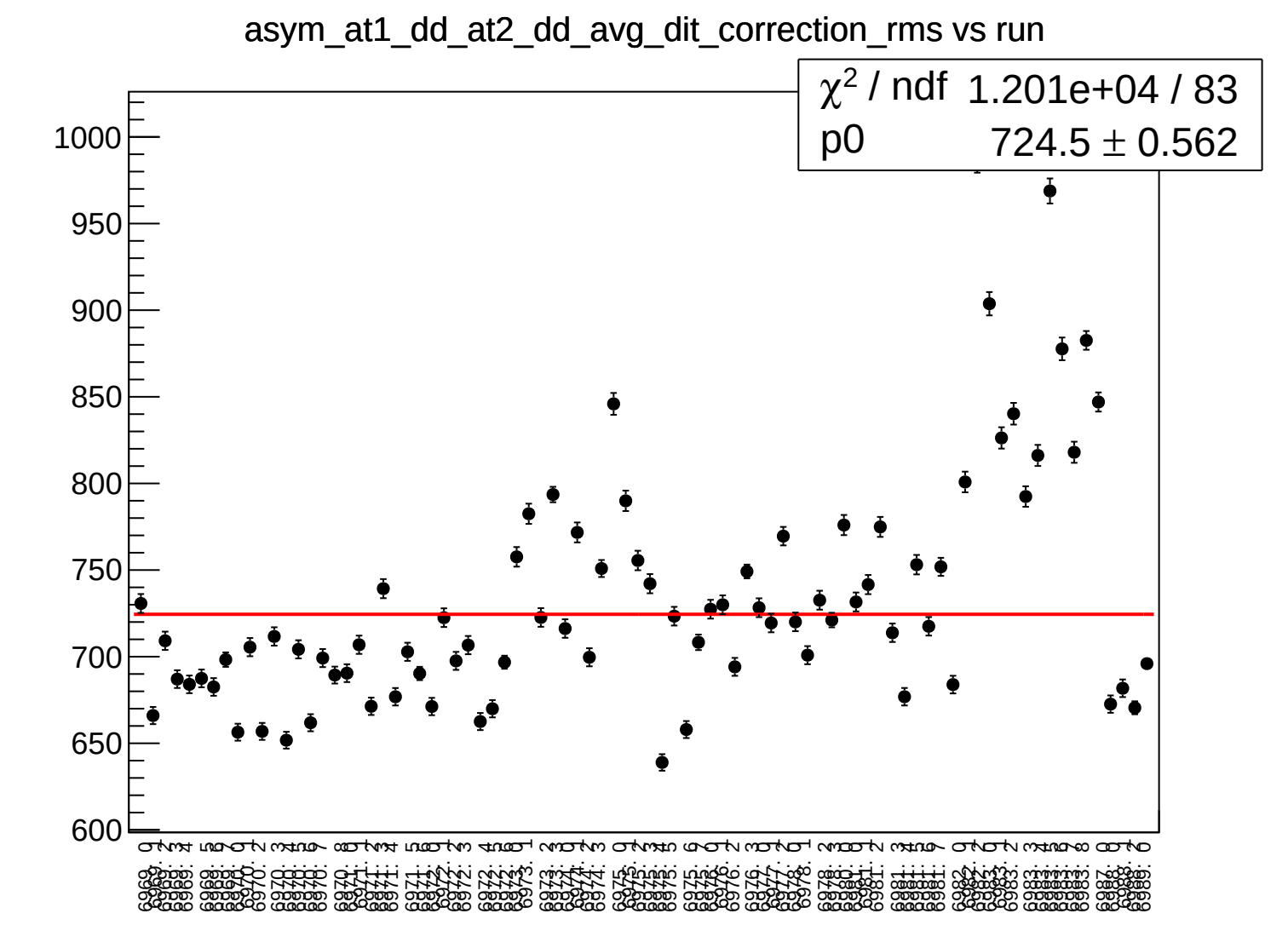

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 71.69 / 83
p0 240 ± 1360
pull
Entries 84
Mean −424.9
Std Dev 0

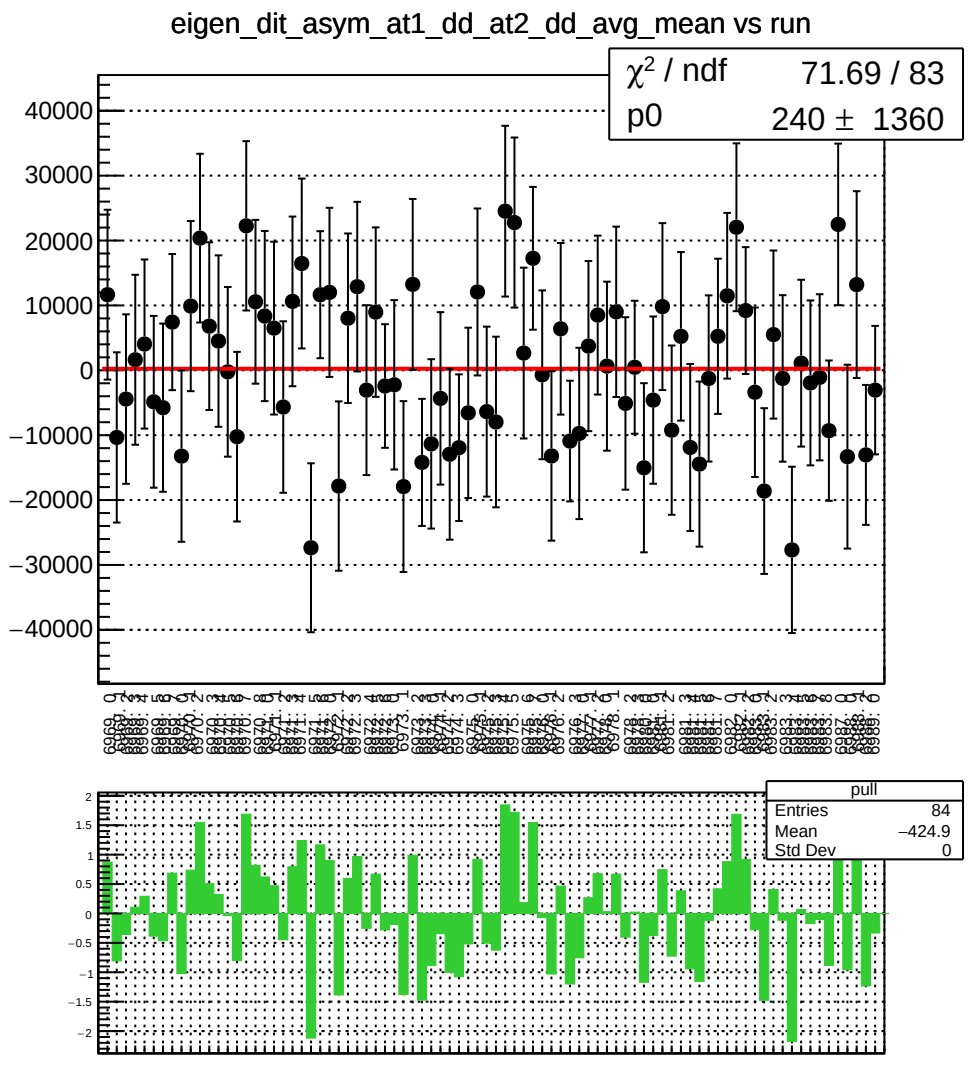

pull1D
Entries 84
Mean 0.005979
Std Dev 0.9238

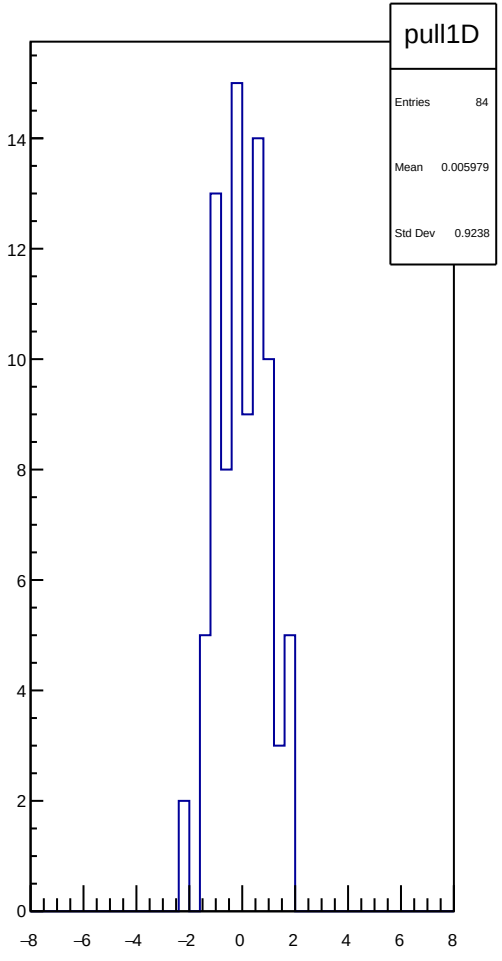

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 942.3 / 83
p0 1244 ± 0.962
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

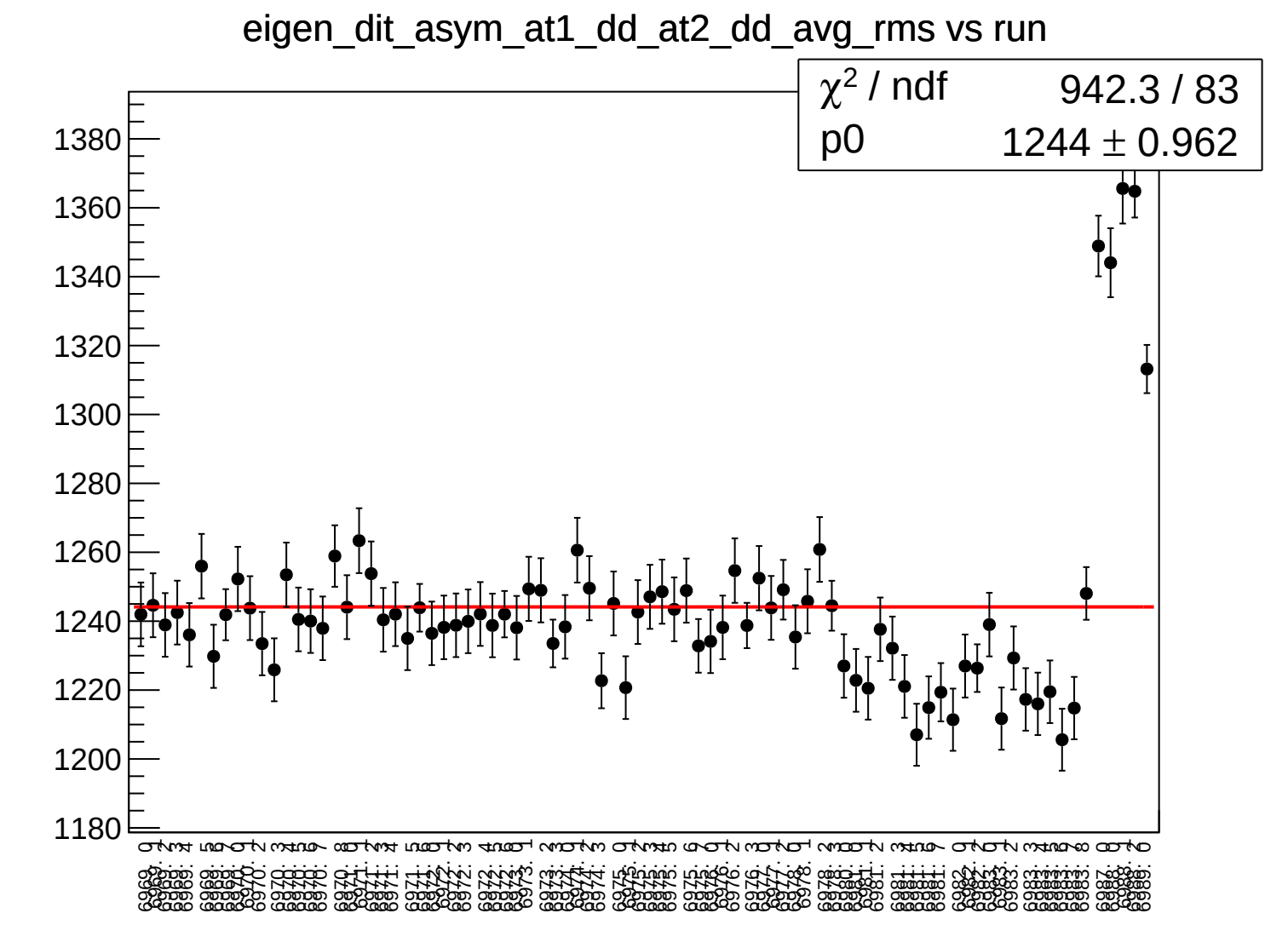

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 75.1 / 83
p0 441.2 ± 794.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1734
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

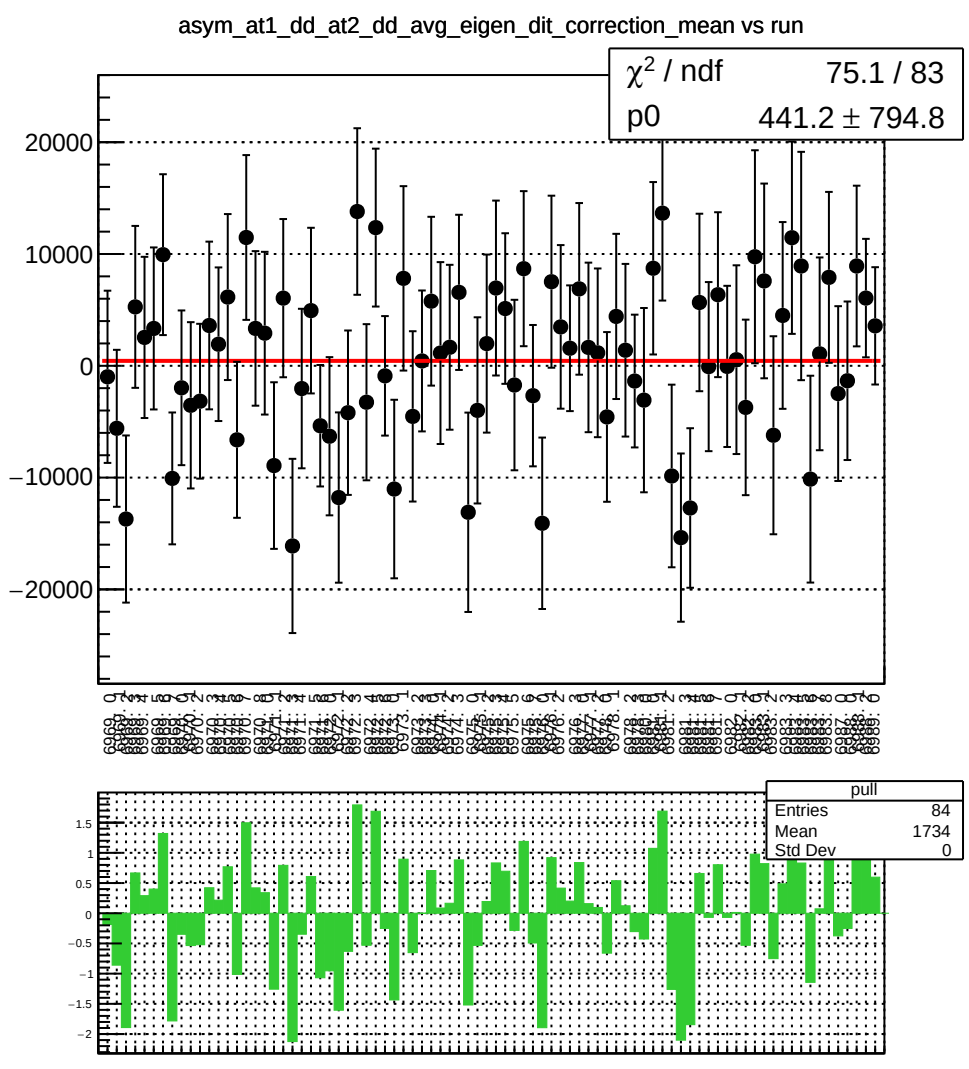

pull1D
Entries 84
Mean 0.002223
Std Dev 0.9455
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

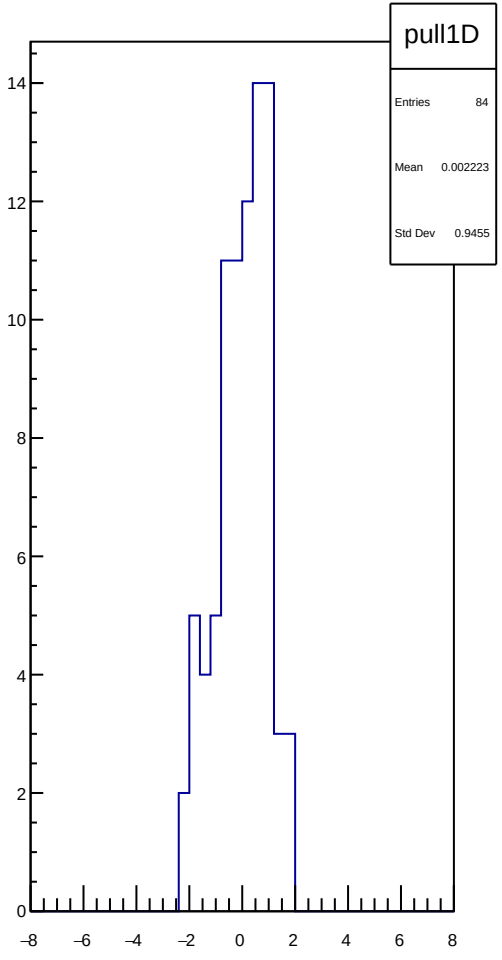

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.201e+04 / 83
p0 724.5 ± 0.562
1000
950
900
850
800
750
700
650
600

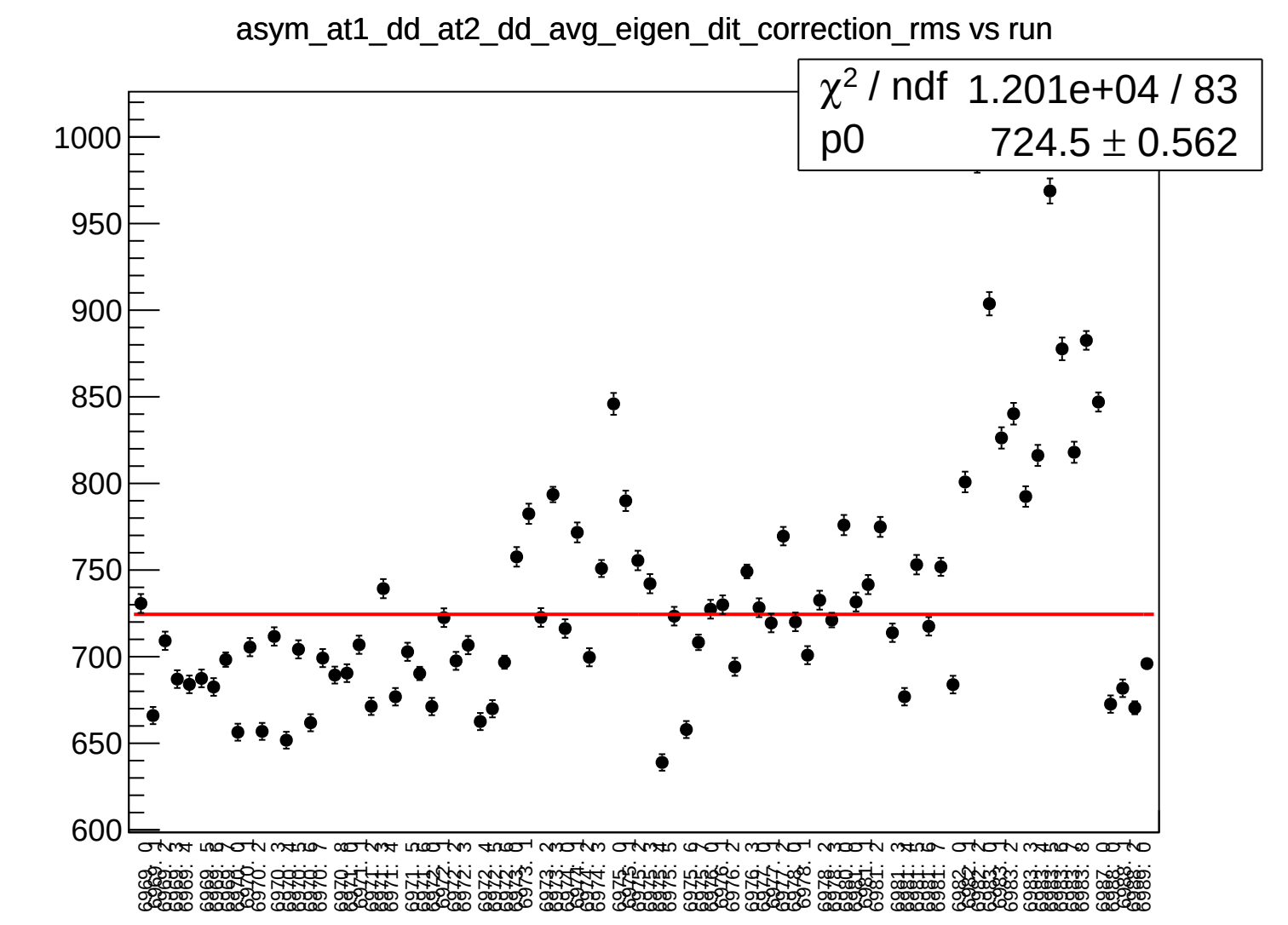

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 71.69 / 83
p0 240 ± 1360
pull
Entries 84
Mean −424.9
Std Dev 0

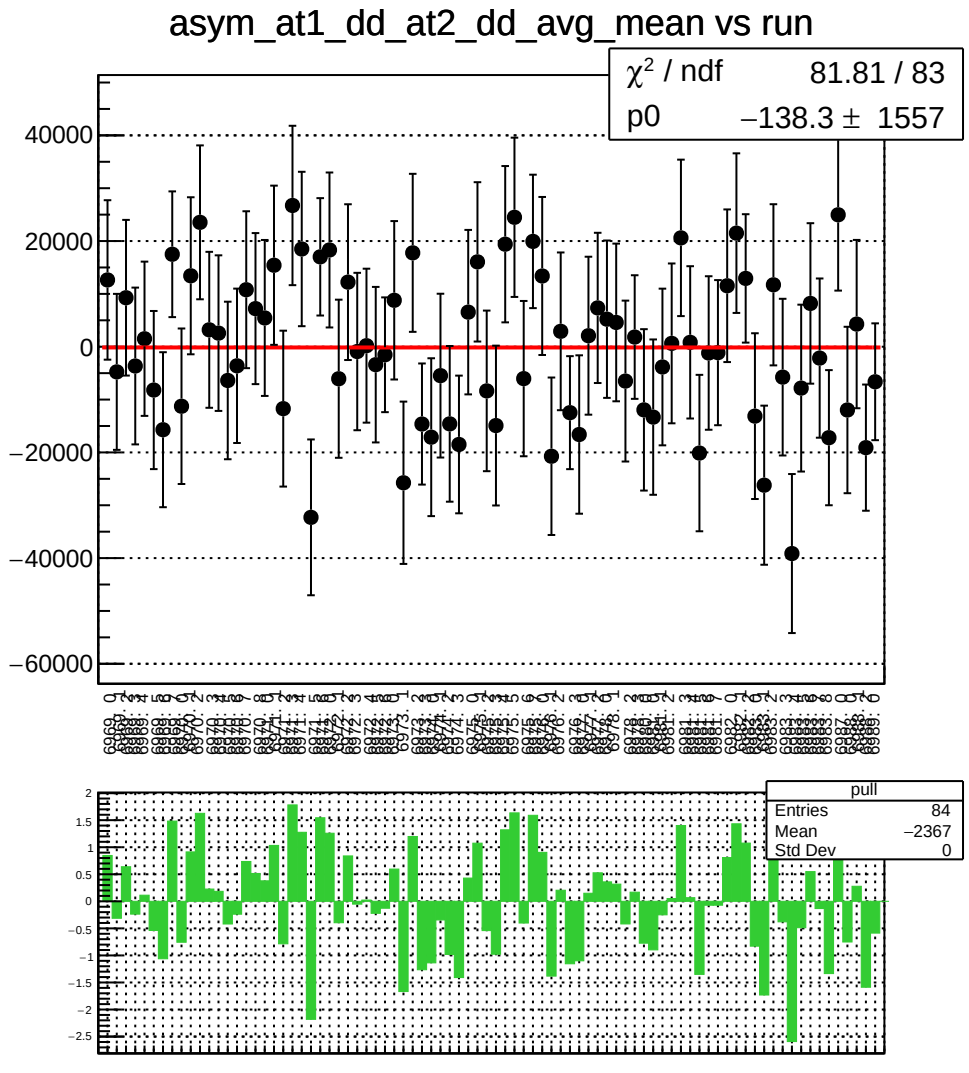

pull1D
Entries 84
Mean 0.005979
Std Dev 0.9238

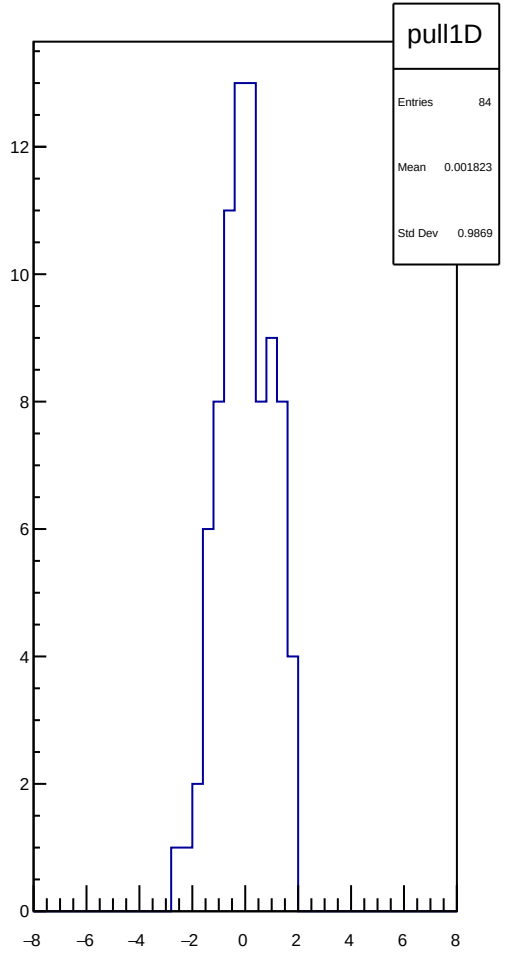

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 942.3 / 83
p0 1244 ± 0.962
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

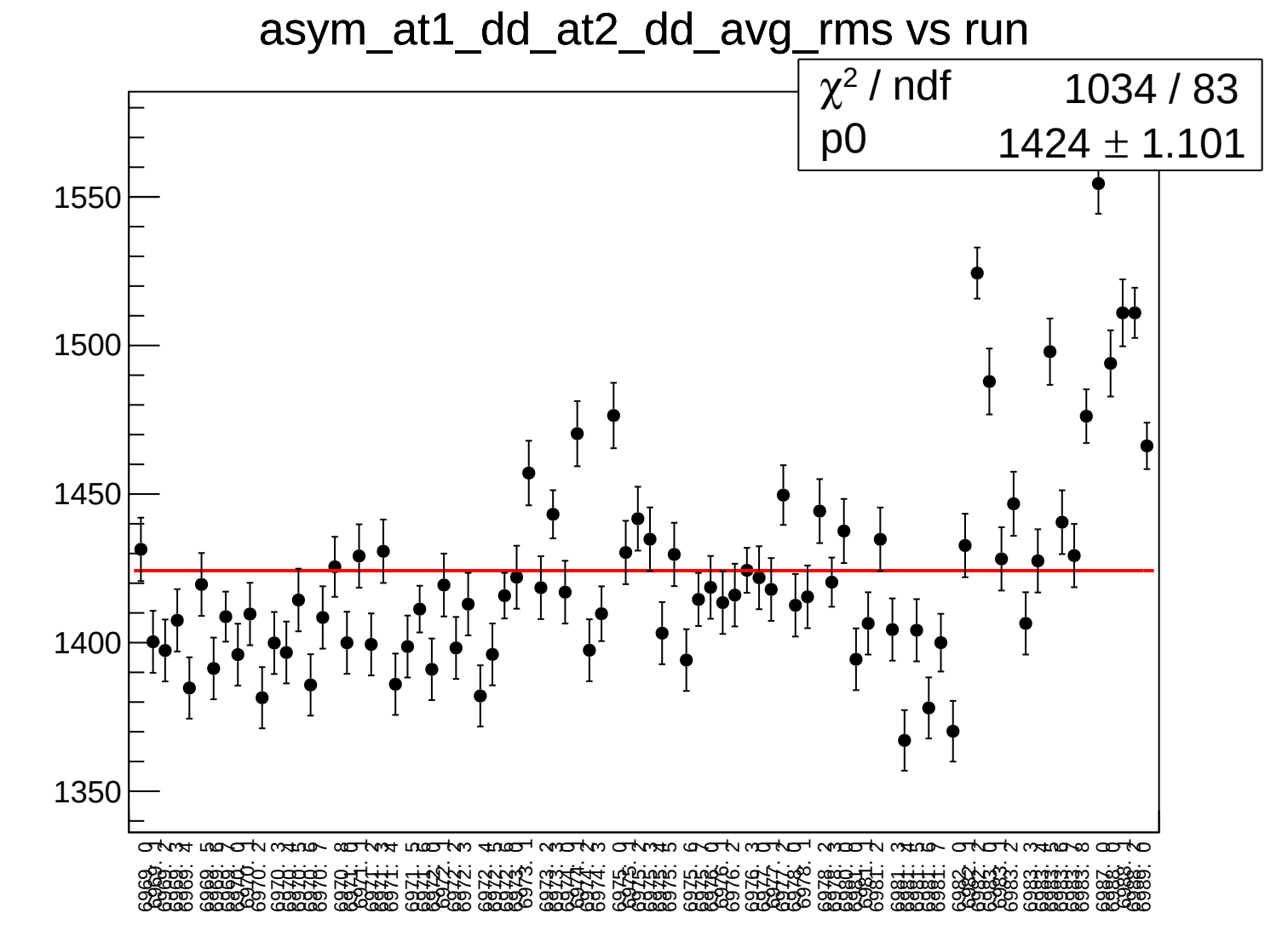

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.1 / 83
p0 441.2 ± 794.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1734
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

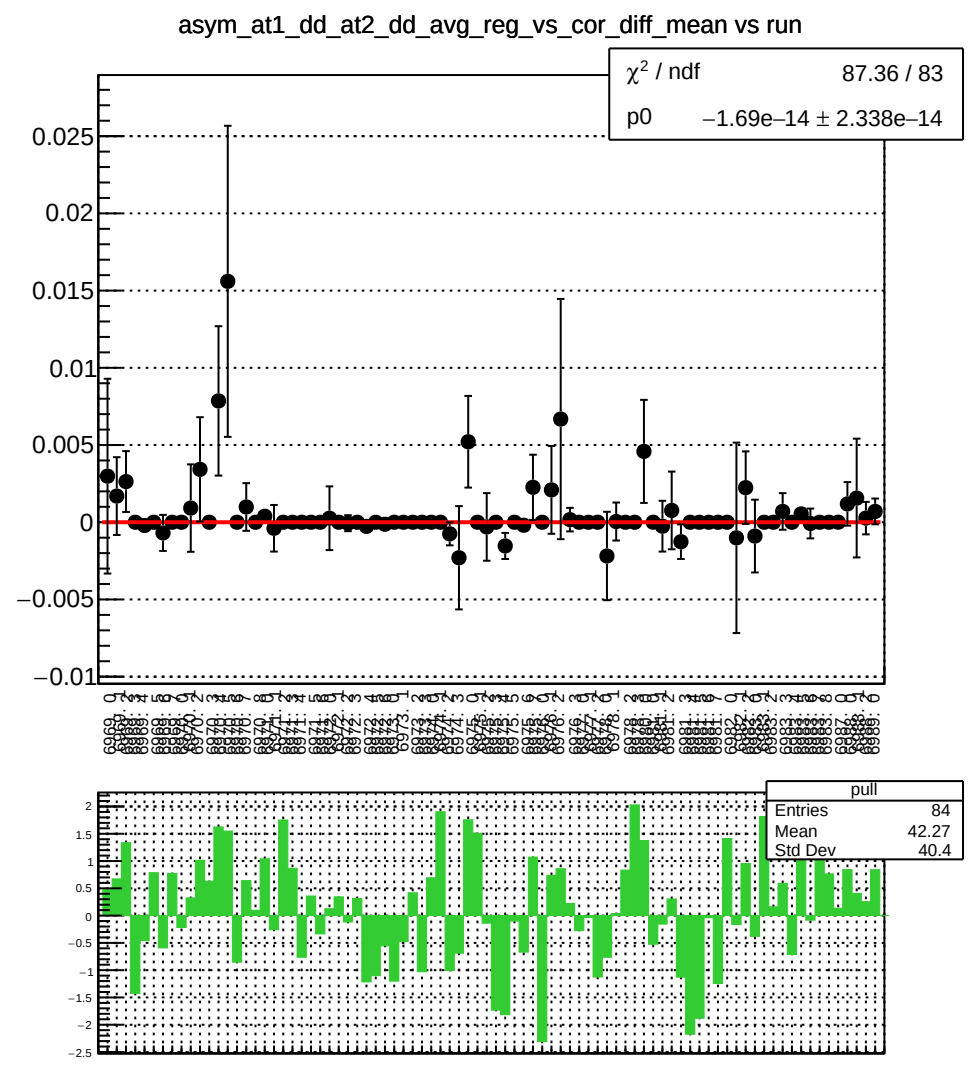

pull1D
Entries 84
Mean 0.002223
Std Dev 0.9455
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

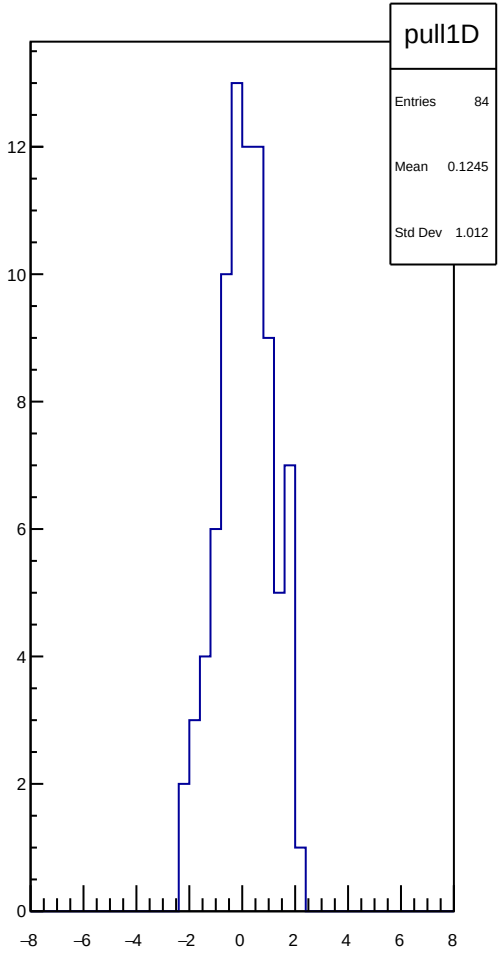

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.201e+04 / 83
p0 724.5 ± 0.562
1000
950
900
850
800
750
700
650
600

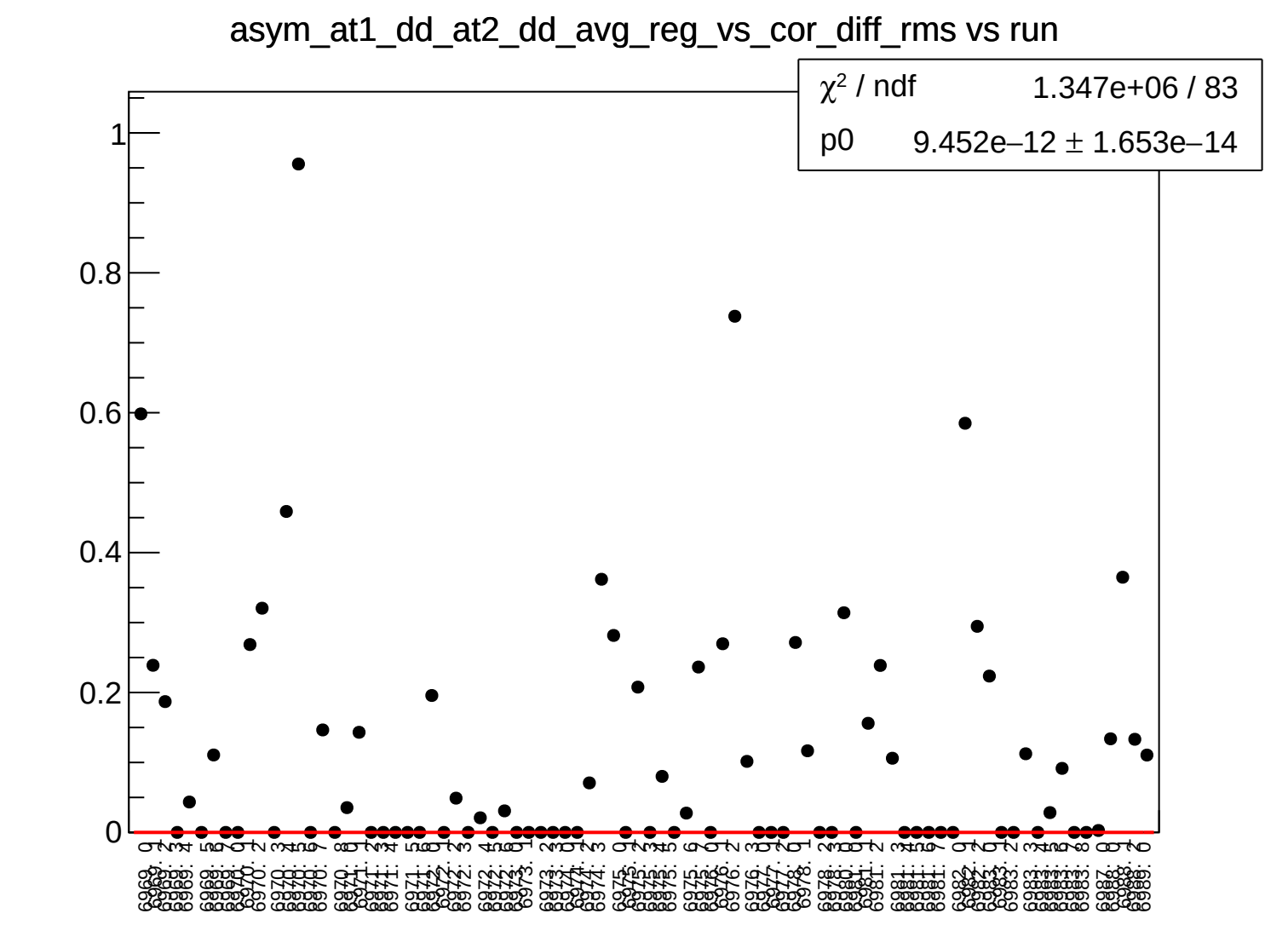

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 81.81 / 83
p0 −138.3 ± 1557
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −2367
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

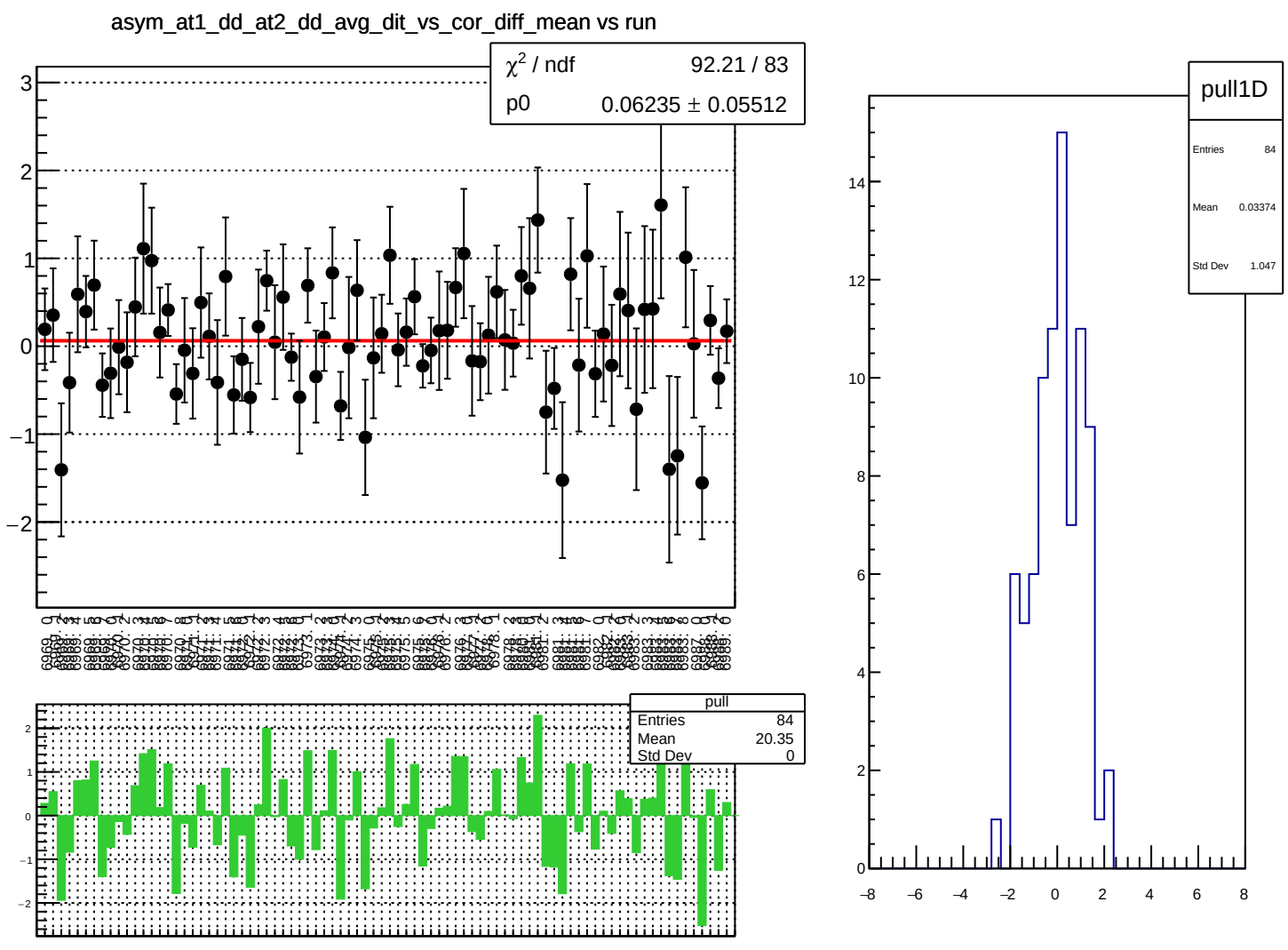

pull1D
Entries 84
Mean 0.001823
Std Dev 0.9869
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

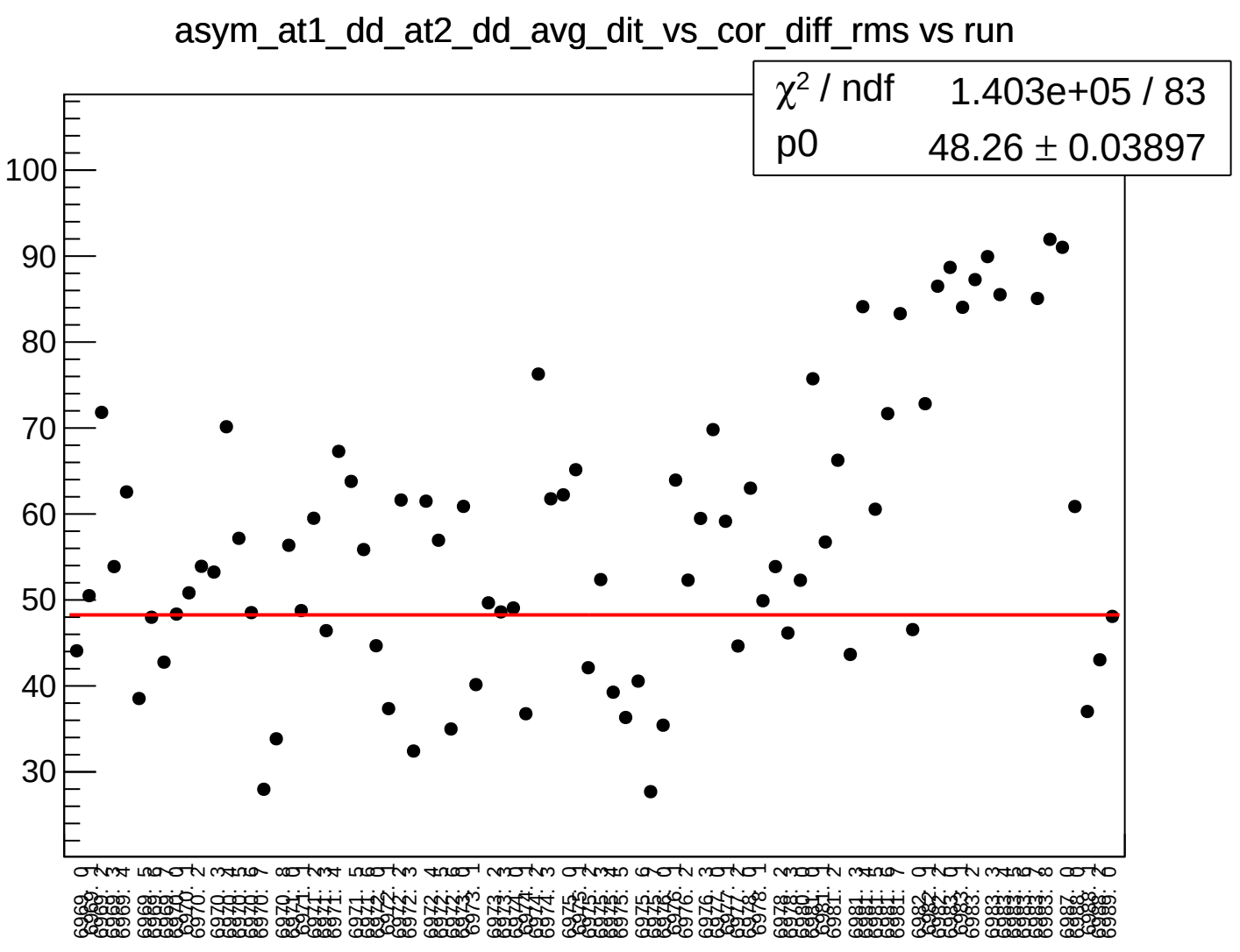

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1034 / 83
p0 1424 ± 1.101
1550
1500
1450
1400
1350

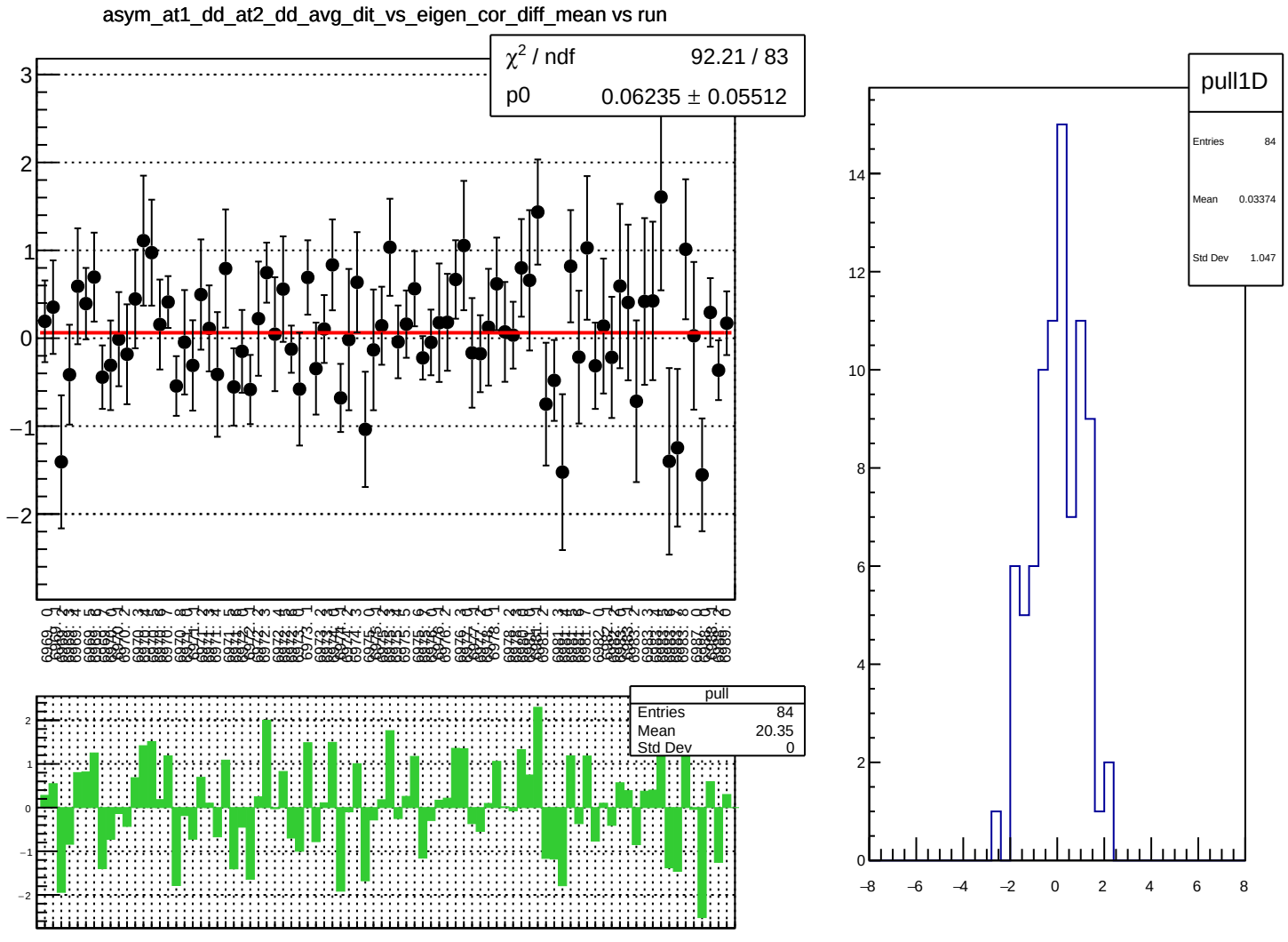

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.36 / 83
p0 −1.69e−14 ± 2.338e−14
pull
Entries 84
Mean 42.27
Std Dev 40.4

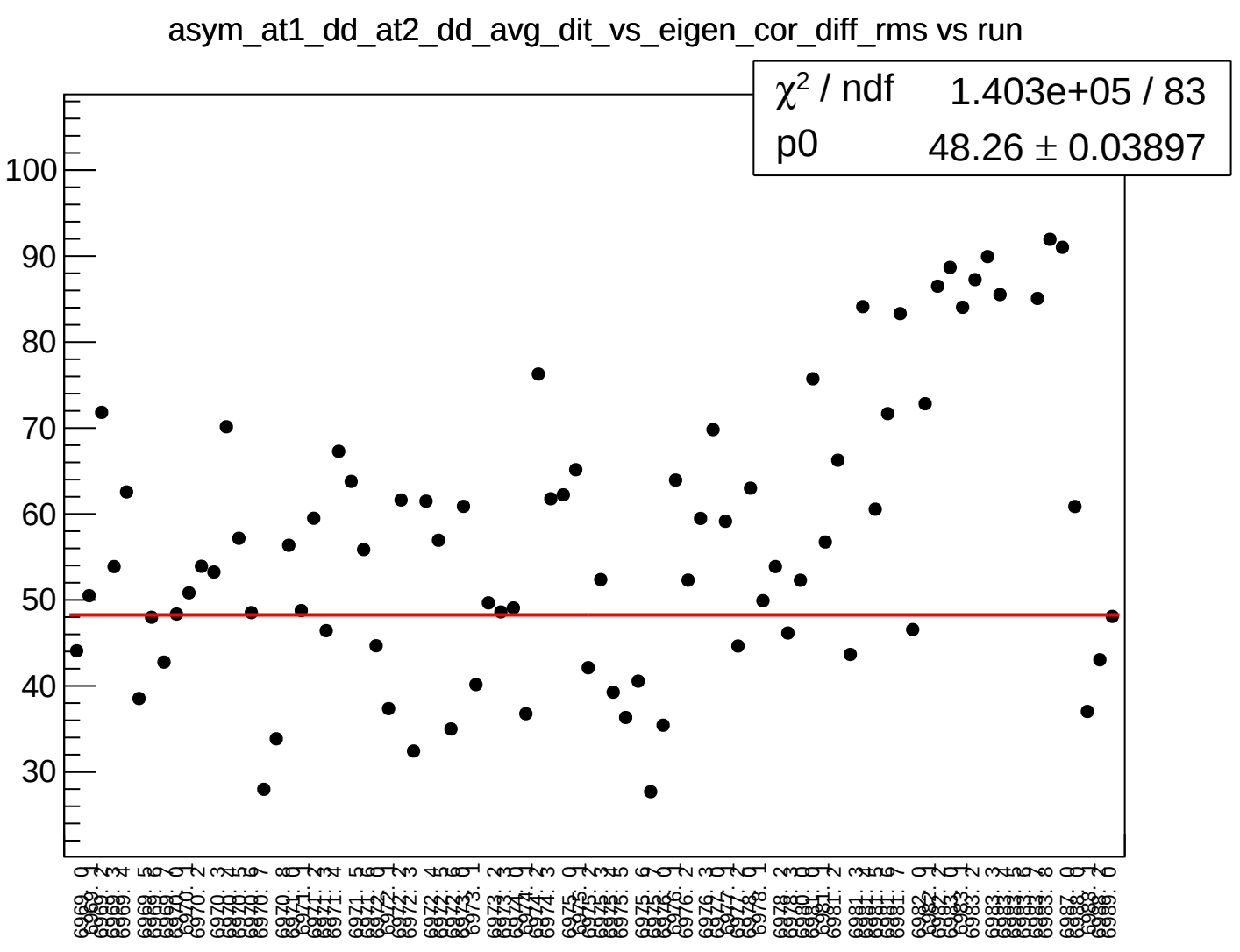

pull1D
Entries 84
Mean 0.1245
Std Dev 1.012

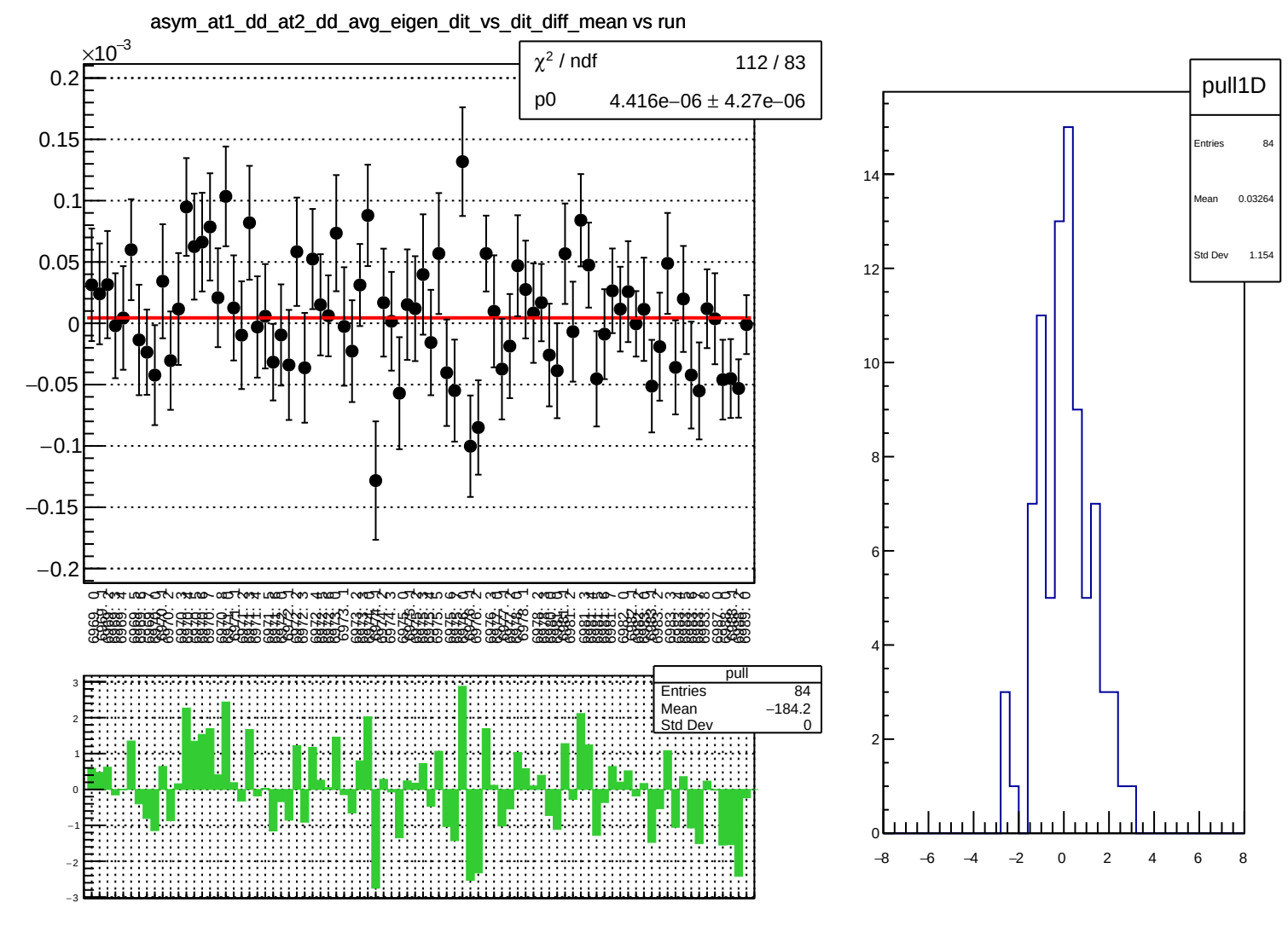

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.347e+06 / 83
p0 9.452e−12 ± 1.653e−14
1
0.8
0.6
0.4
0.2
0

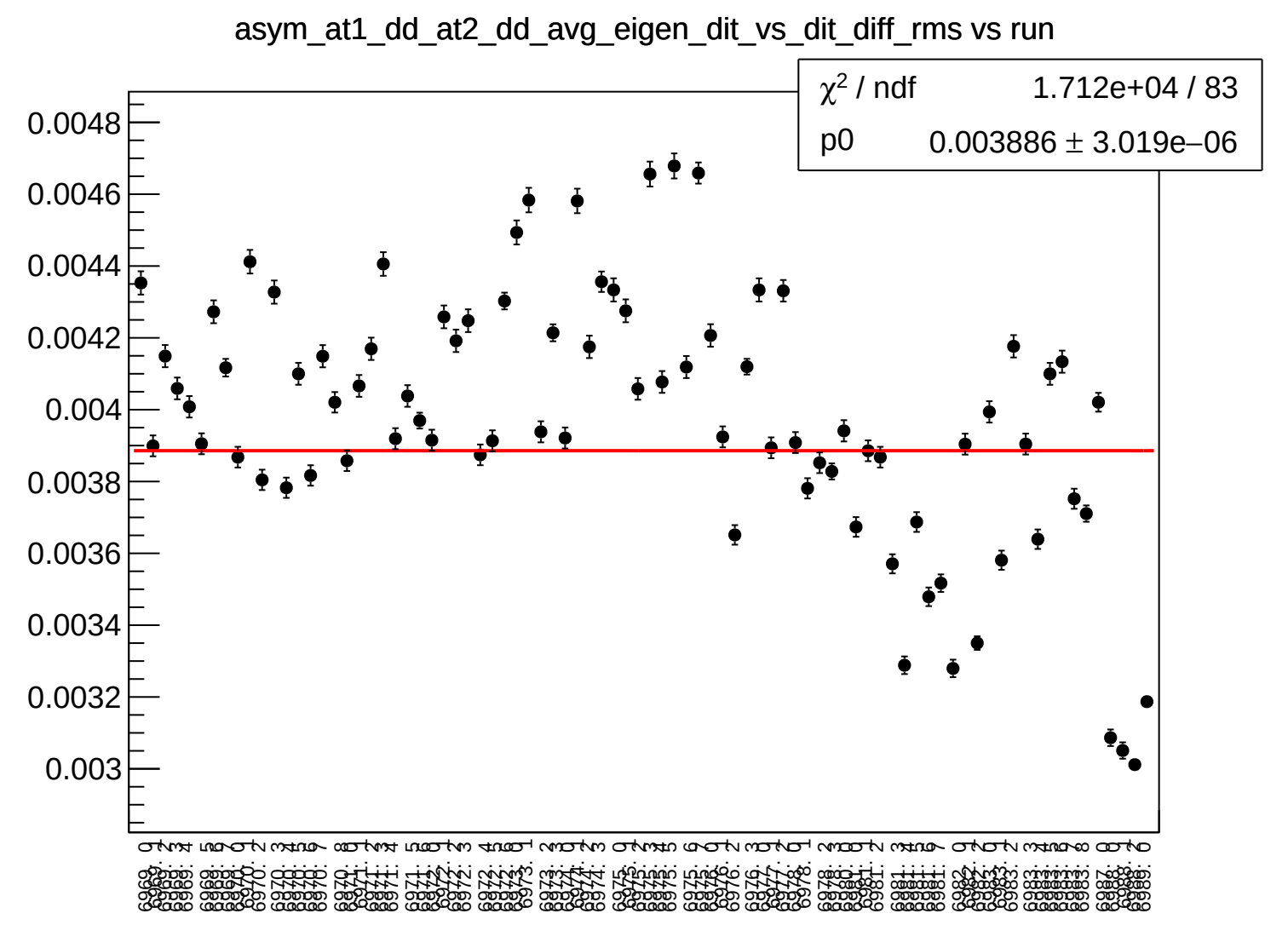

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.21 / 83
p0 0.06235 ± 0.05512
pull
Entries 84
Mean 20.35
Std Dev 0
pull1D
Entries 84
Mean 0.03374
Std Dev 1.047


asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.403e+05 / 83
p0 48.26 ± 0.03897
100
90
80
70
60
50
40
30

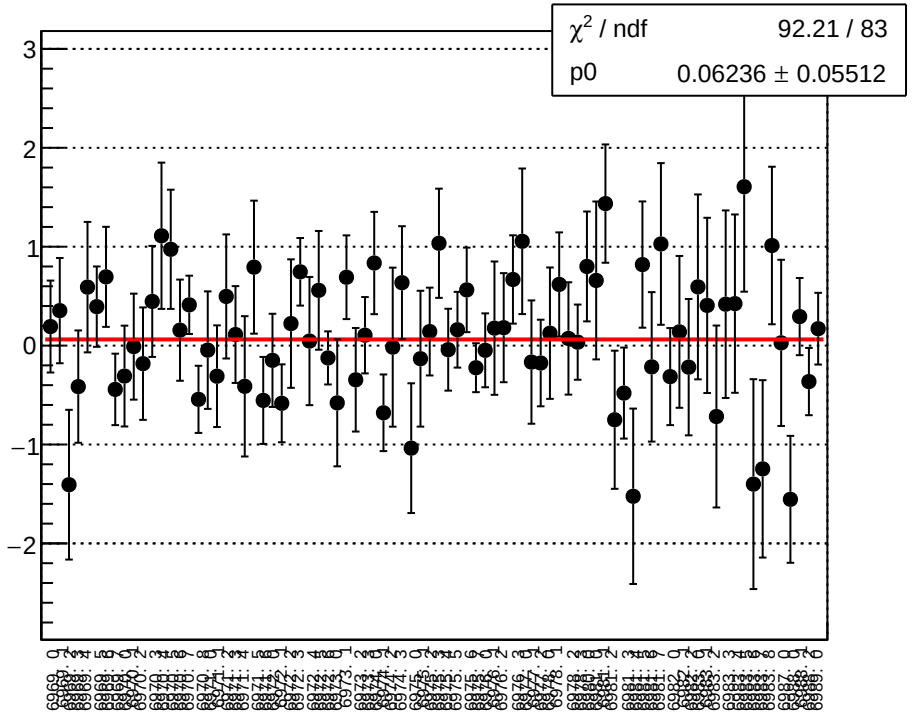

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.21 / 83
p0 0.06235 ± 0.05512
pull
Entries 84
Mean 20.35
Std Dev 0
pull1D
Entries 84
Mean 0.03374
Std Dev 1.047

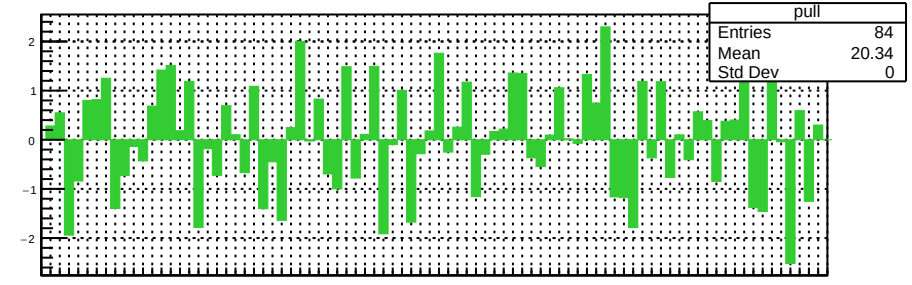

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.403e+05 / 83
p0 48.26 ± 0.03897
100
90
80
70
60
50
40
30

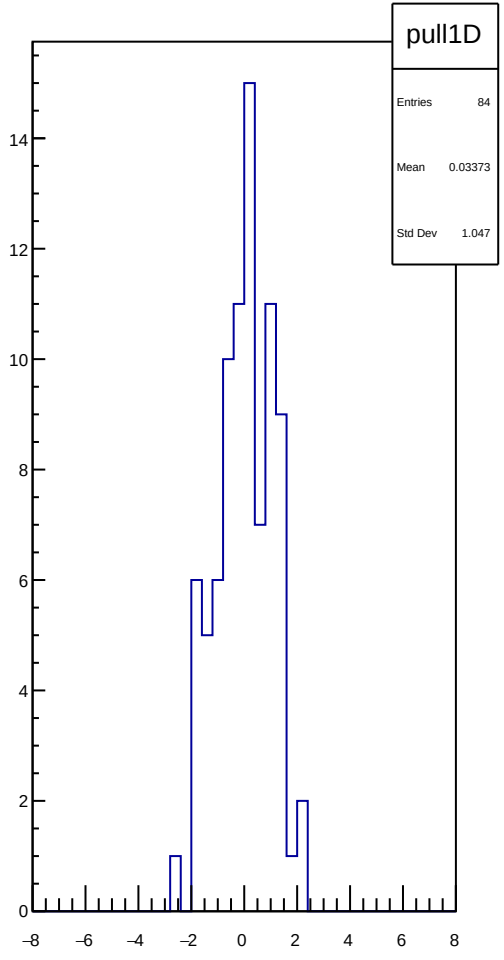

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112 / 83
p0 4.416e−06 ± 4.27e−06
pull
Entries 84
Mean −184.2
Std Dev 0
pull1D
Entries 84
Mean 0.03264
Std Dev 1.154

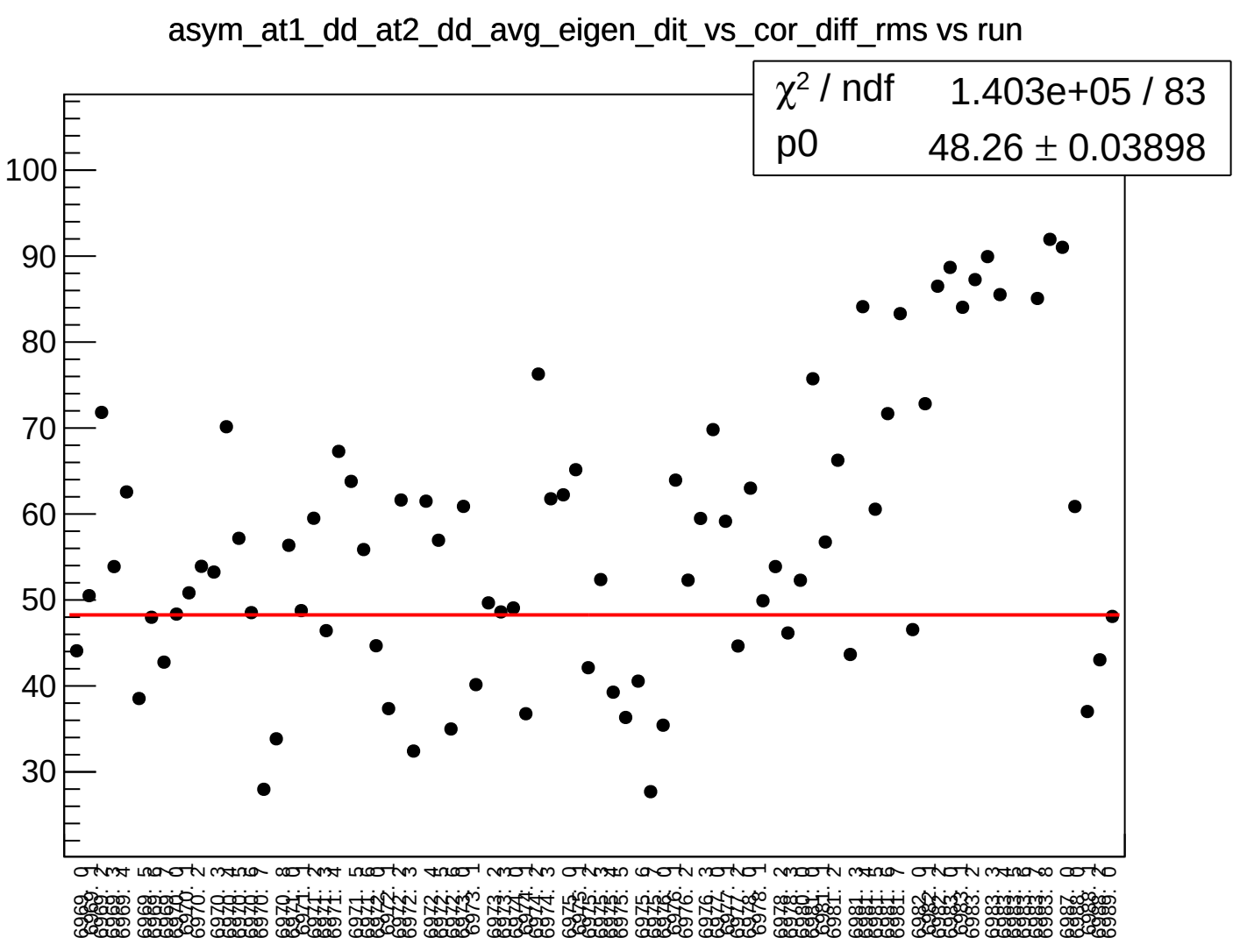

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.712e+04 / 83
p0 0.003886 ± 3.019e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

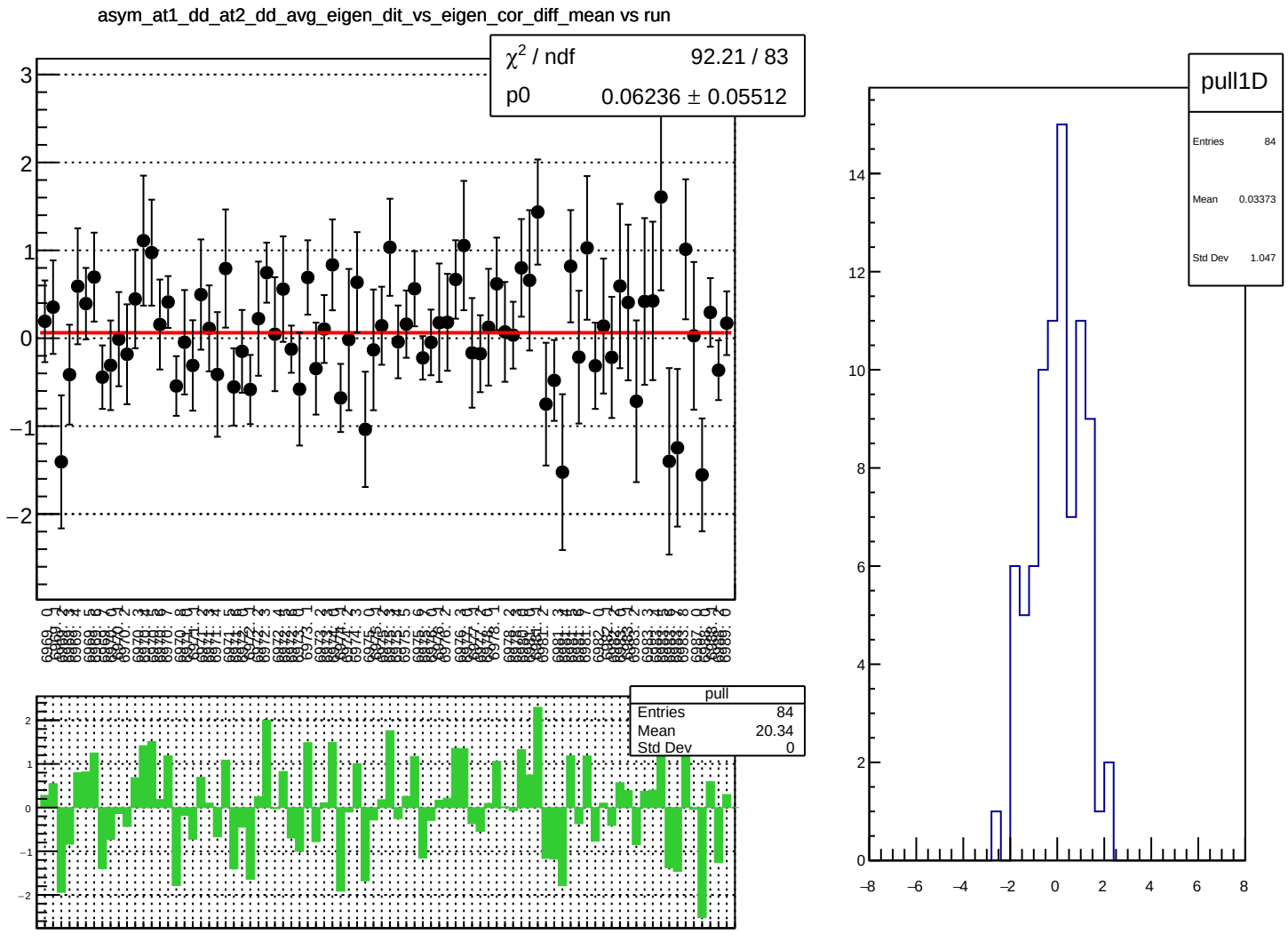
asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run

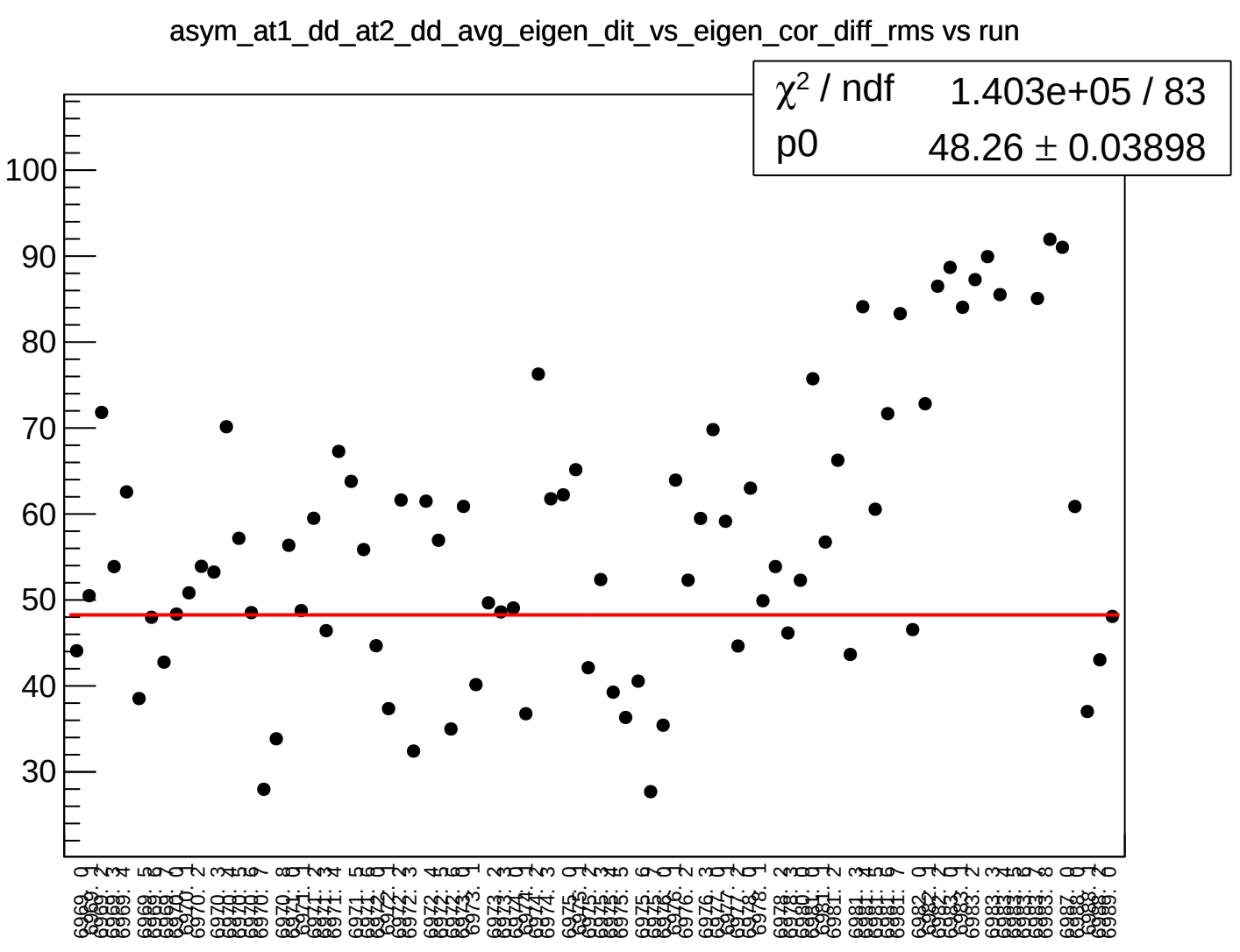


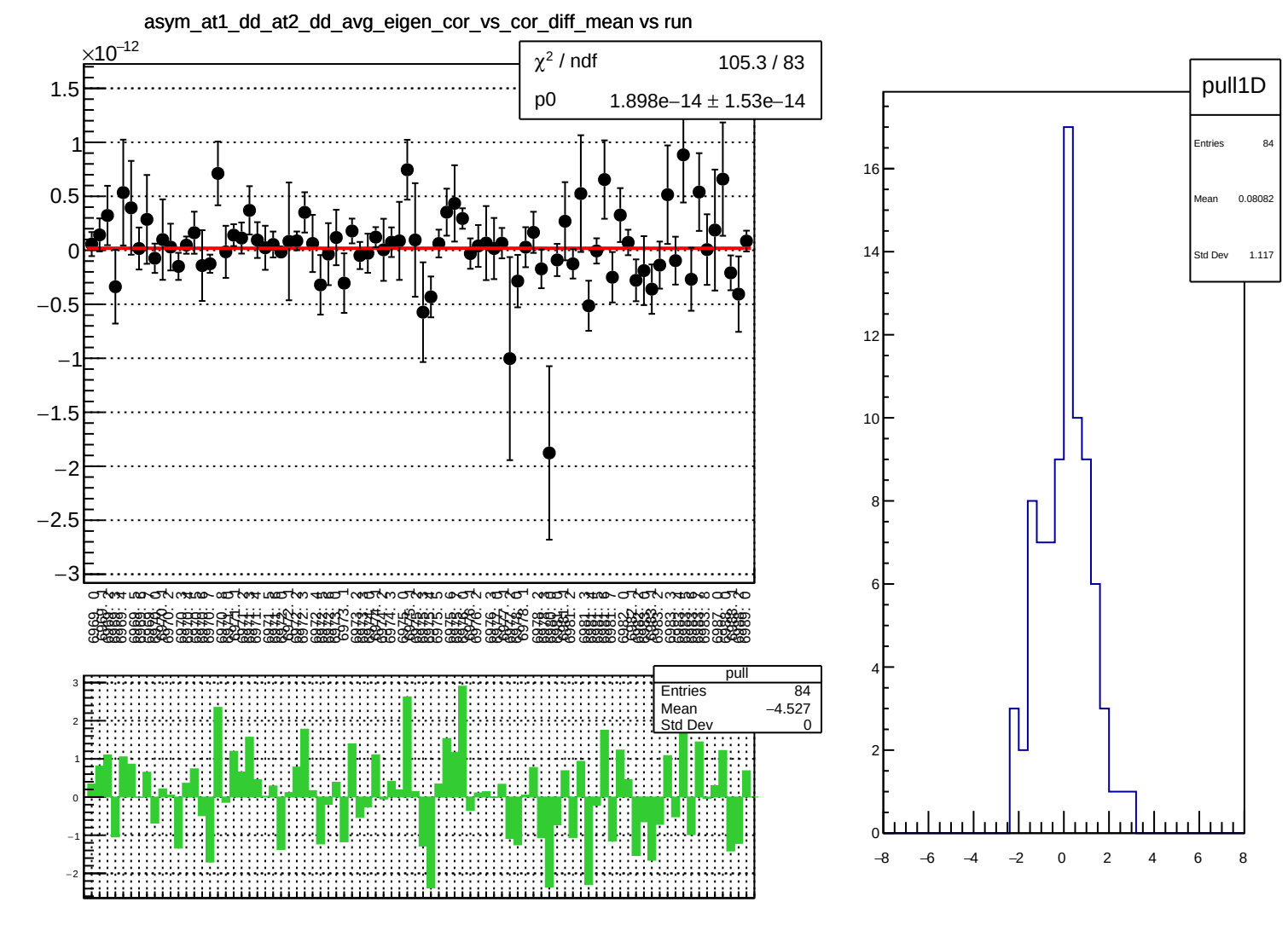


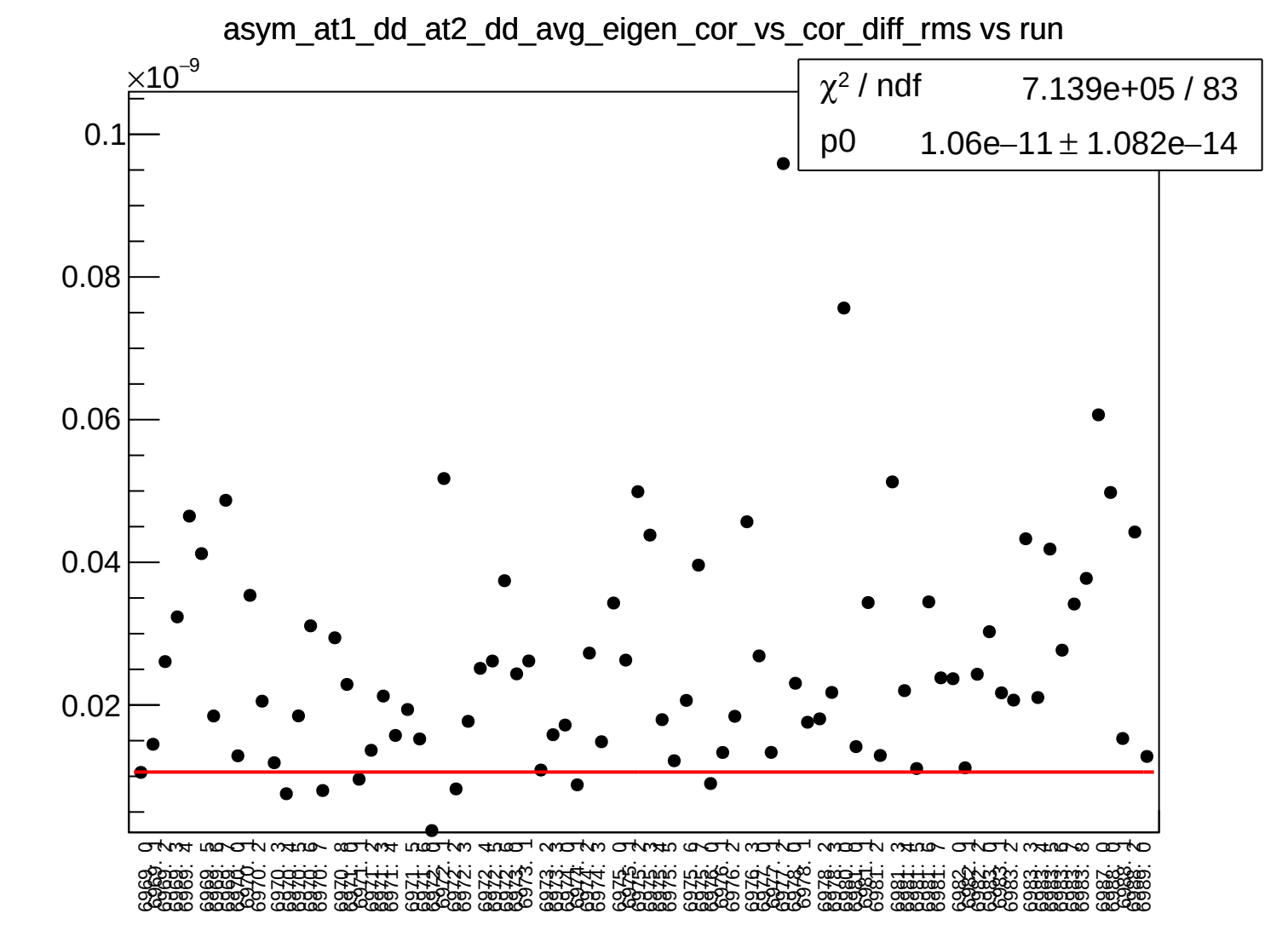


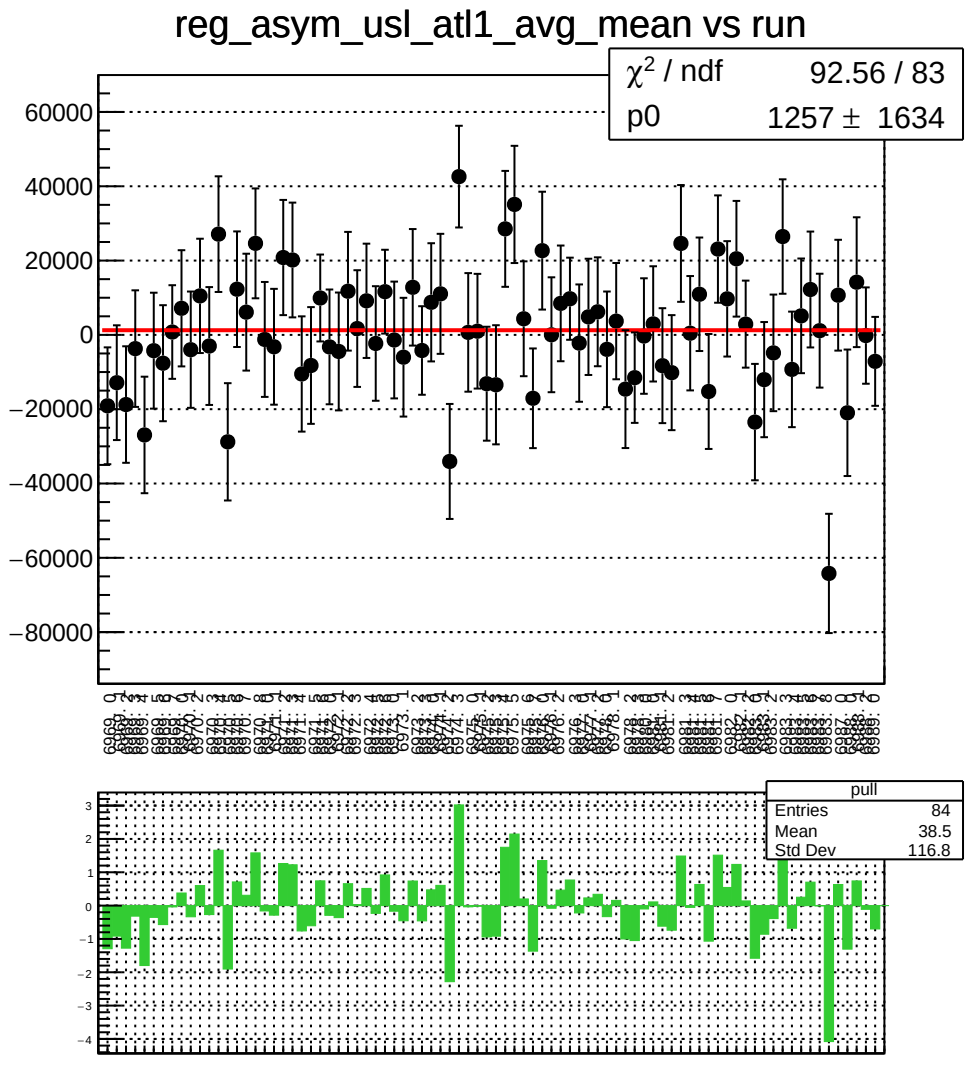

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.403e+05 / 83
p0 48.26 ± 0.03898
100
90
80
70
60
50
40
30

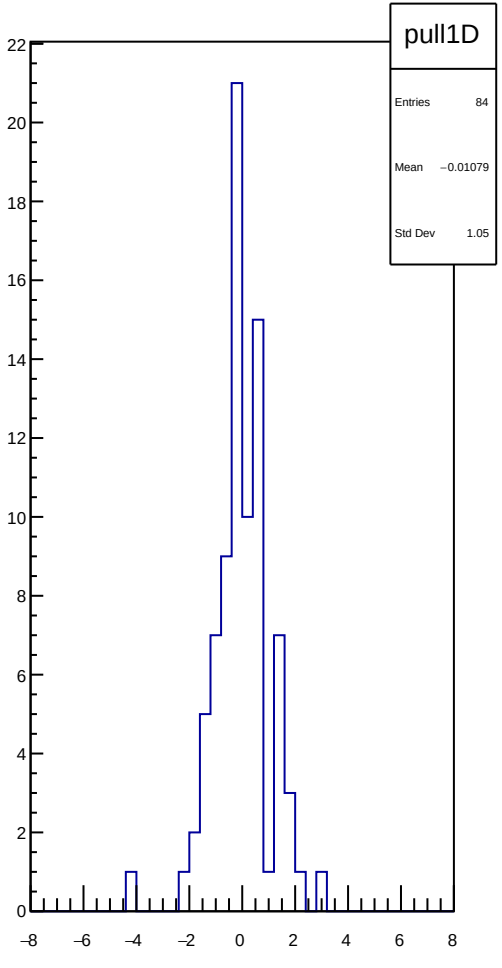

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.21 / 83
p0 0.06236 ± 0.05512
pull
Entries 84
Mean 20.34
Std Dev 0
pull1D
Entries 84
Mean 0.03373
Std Dev 1.047

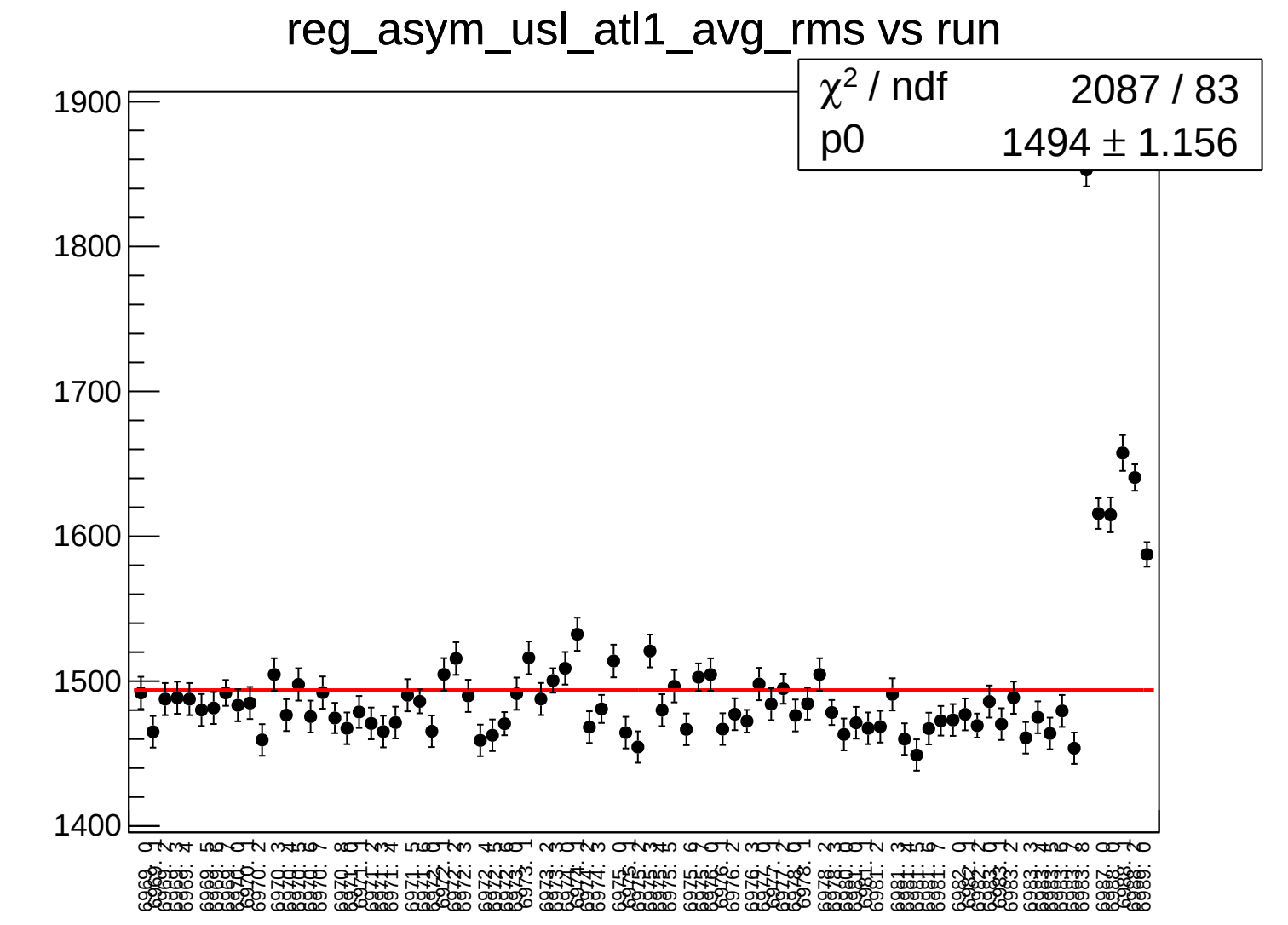

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.403e+05 / 83
p0 48.26 ± 0.03898
100
90
80
70
60
50
40
30

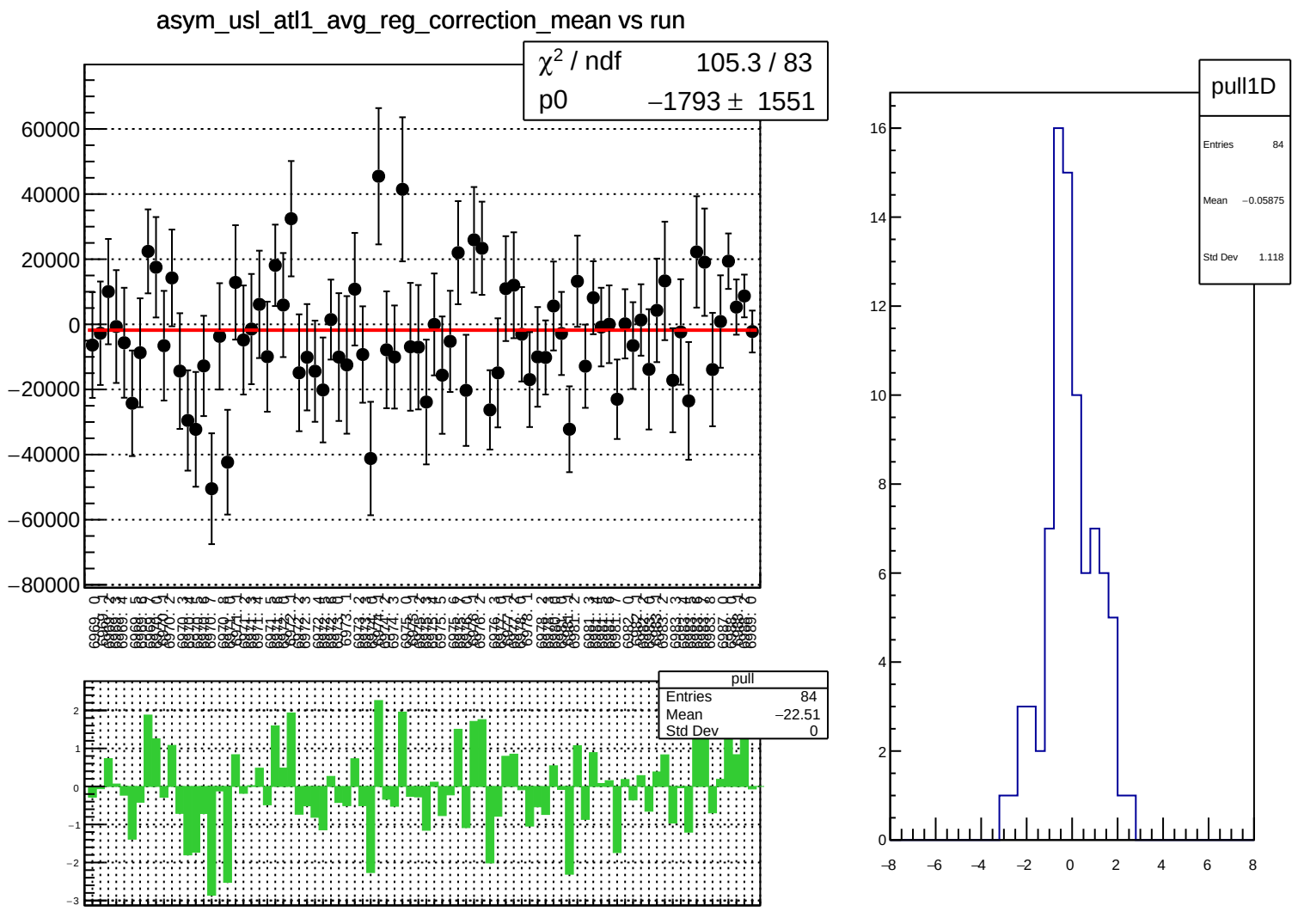

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.3 / 83
p0 1.898e−14 ± 1.53e−14
pull
Entries 84
Mean −4.527
Std Dev 0
pull1D
Entries 84
Mean 0.08082
Std Dev 1.117

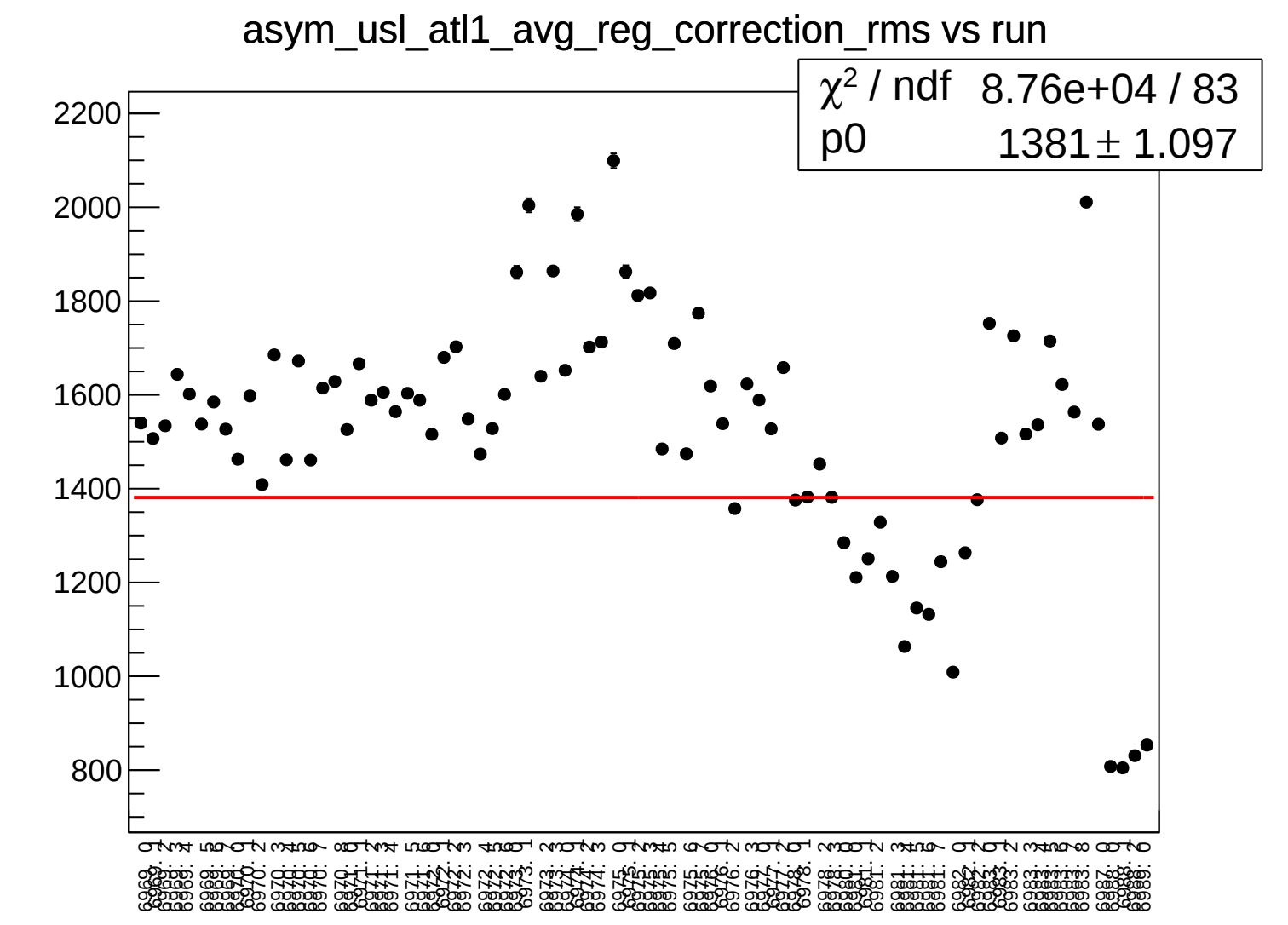

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.139e+05 / 83
p0 1.06e−11 ± 1.082e−14
0.1
0.08
0.06
0.04
0.02

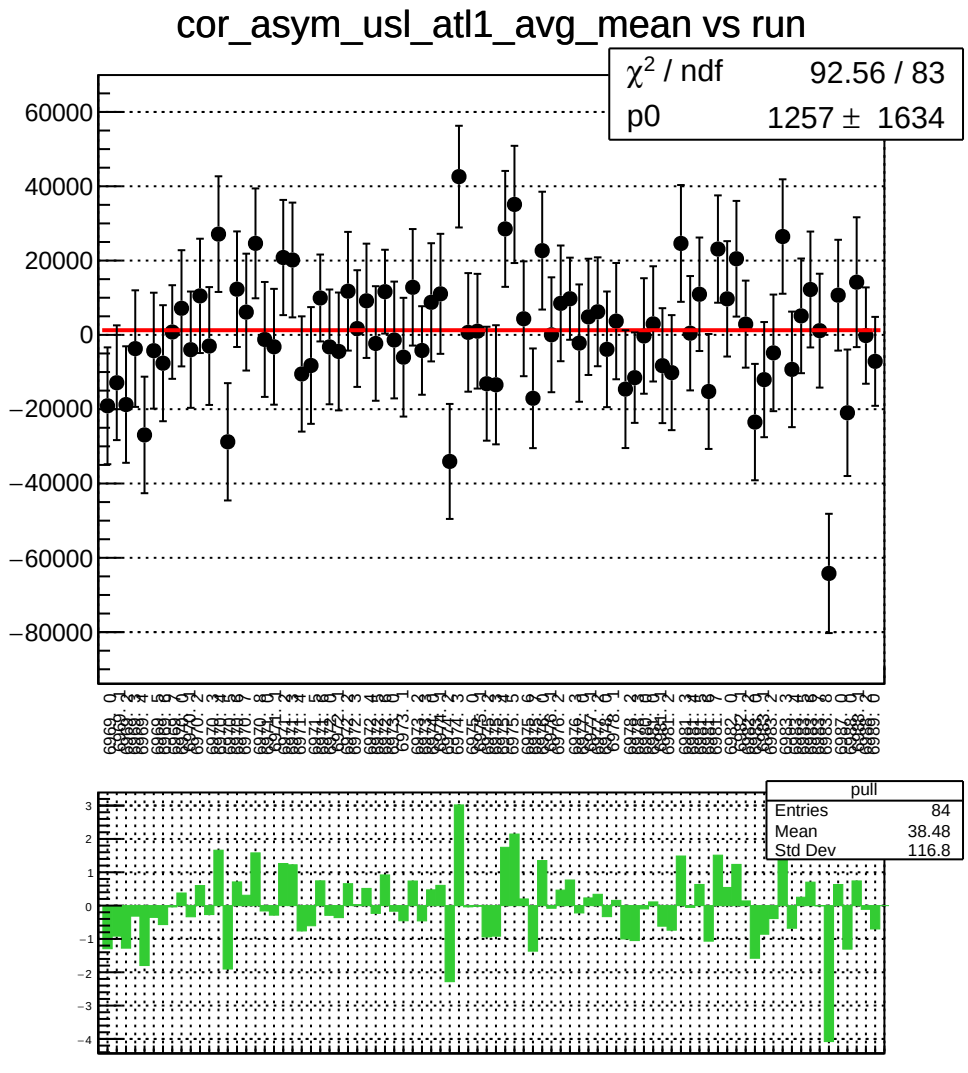

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 92.56 / 83
p0 1257 ± 1634
pull
Entries 84
Mean 38.5
Std Dev 116.8

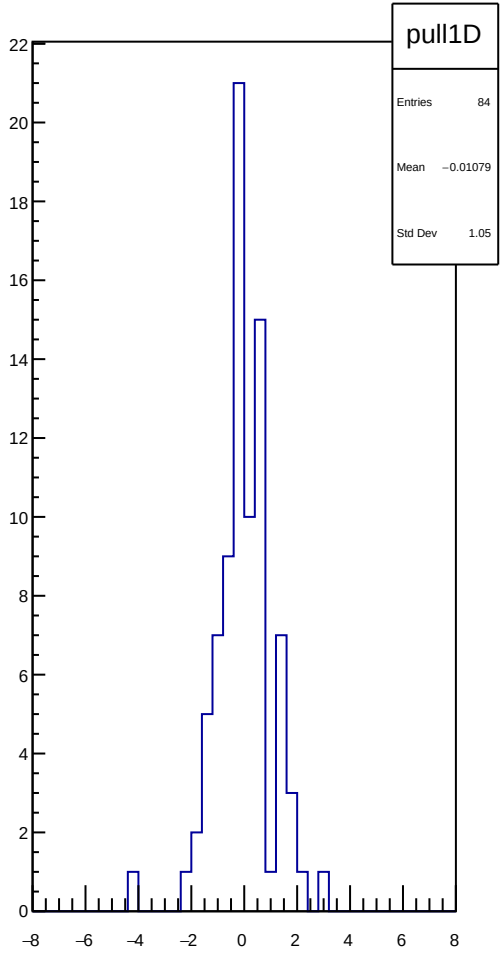

pull1D
Entries 84
Mean −0.01079
Std Dev 1.05

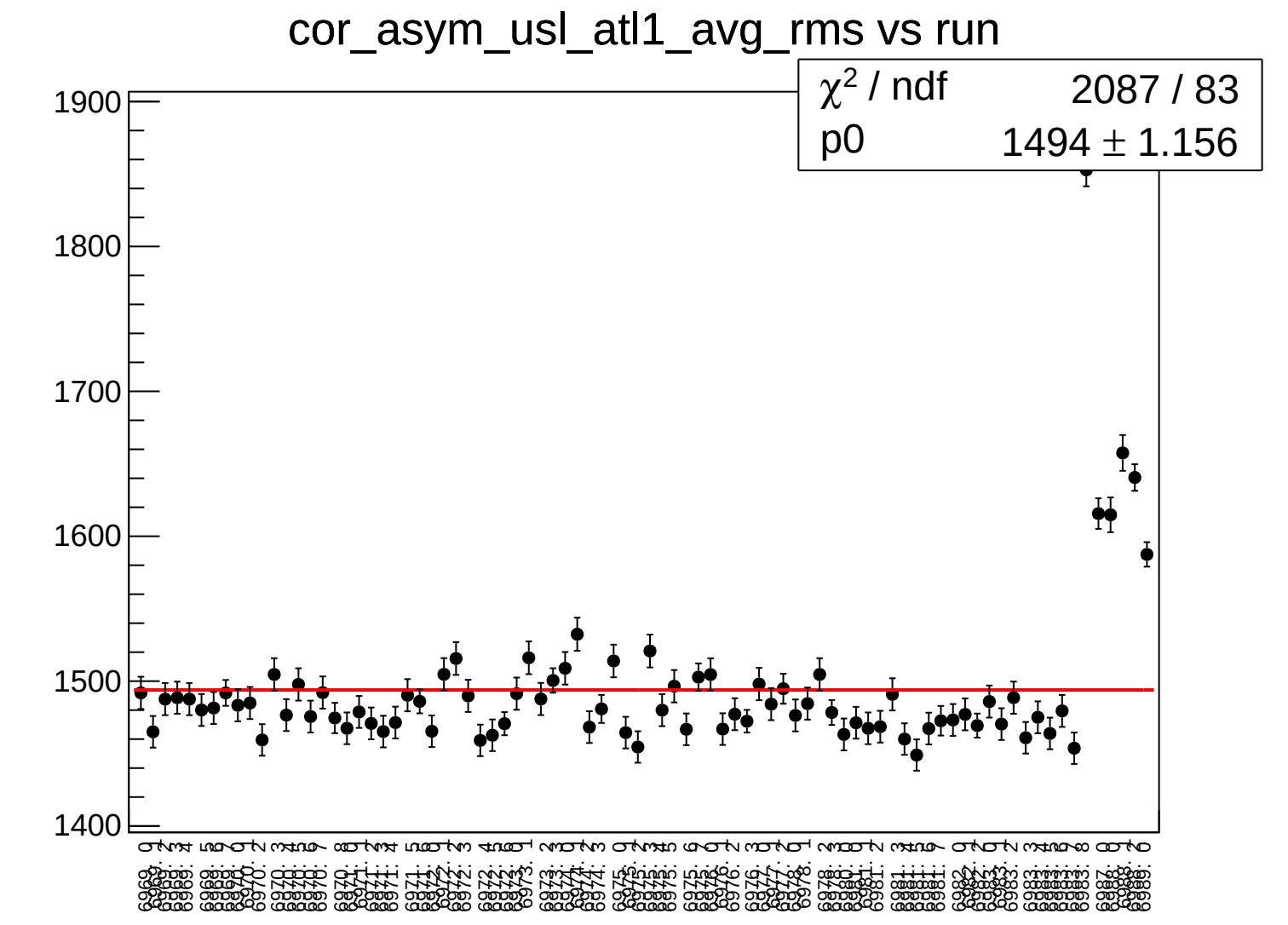

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 2087 / 83
p0 1494 ± 1.156
1900
1800
1700
1600
1500
1400

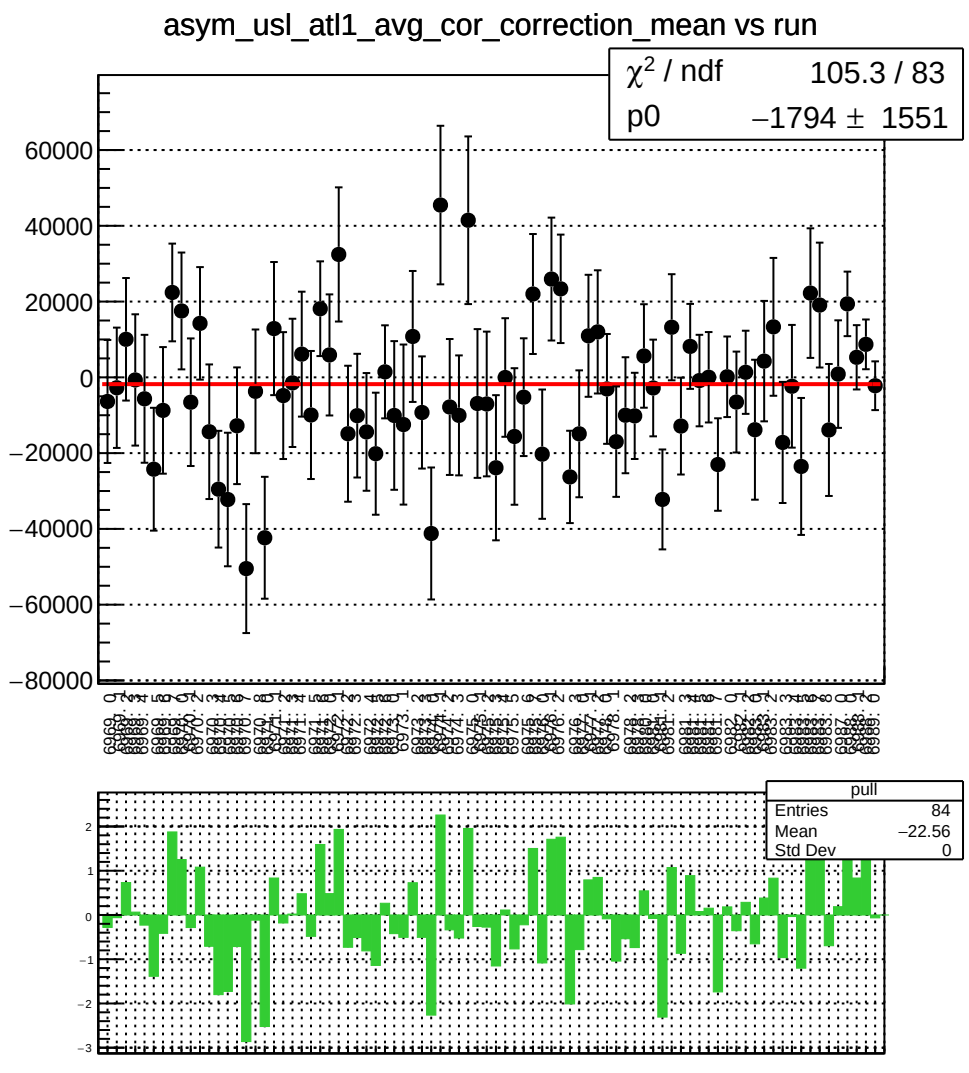

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 105.3 / 83
p0 −1793 ± 1551
pull
Entries 84
Mean −22.51
Std Dev 0
pull1D
Entries 84
Mean −0.05875
Std Dev 1.118

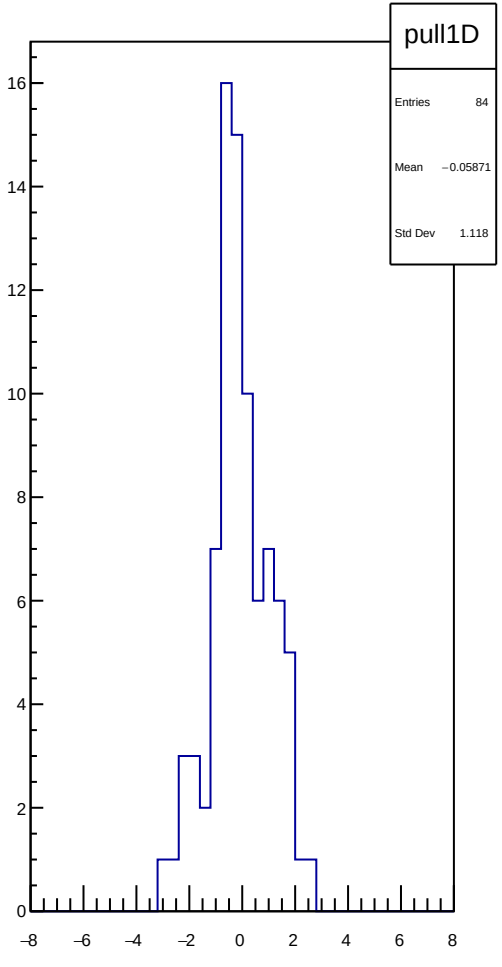

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 8.76e+04 / 83
p0 1381 ± 1.097
2200
2000
1800
1600
1400
1200
1000
800

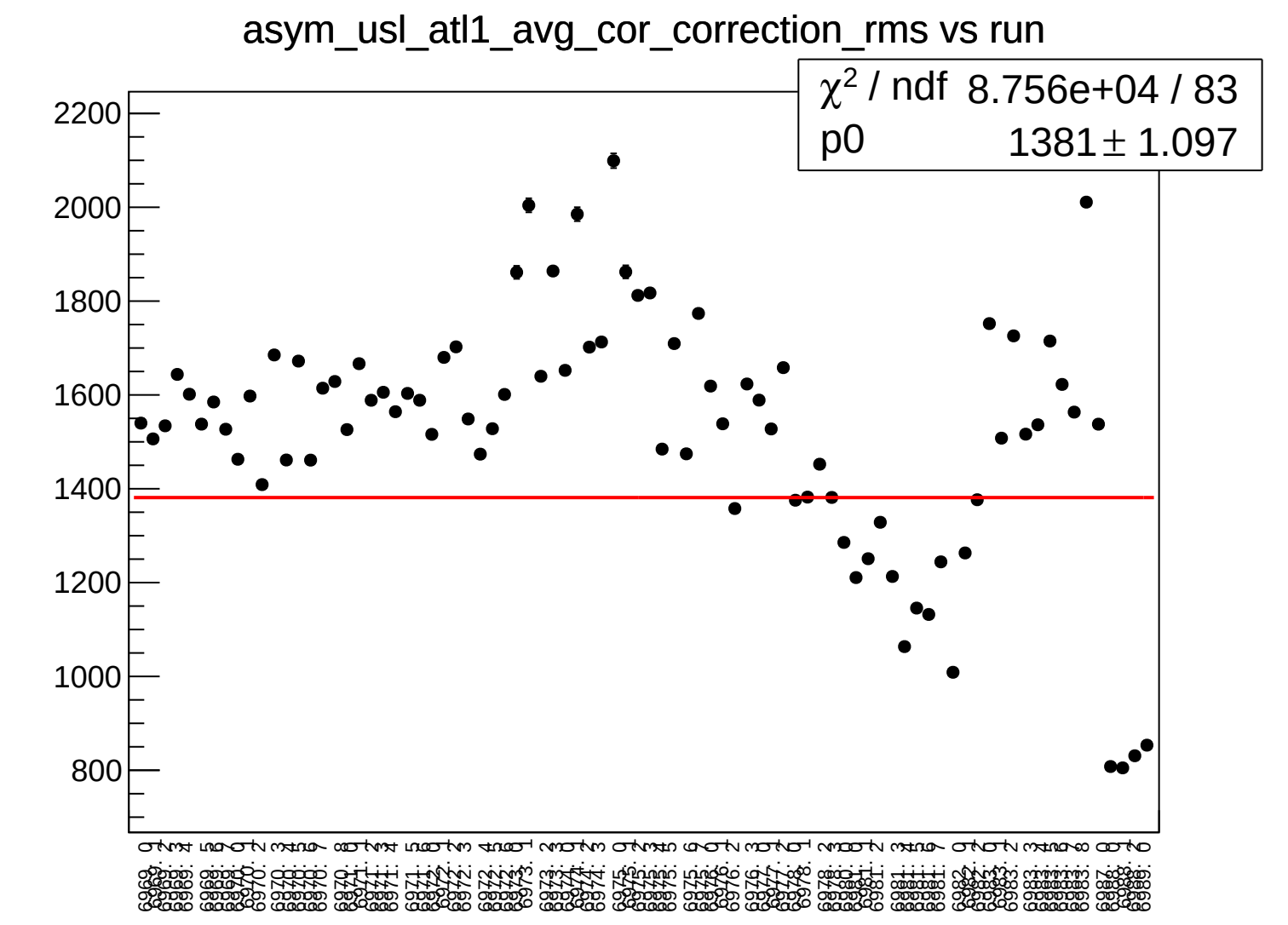

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 92.56 / 83
p0 1257 ± 1634
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 38.48
Std Dev 116.8
3
2
1
0
−1
−2
−3
−4

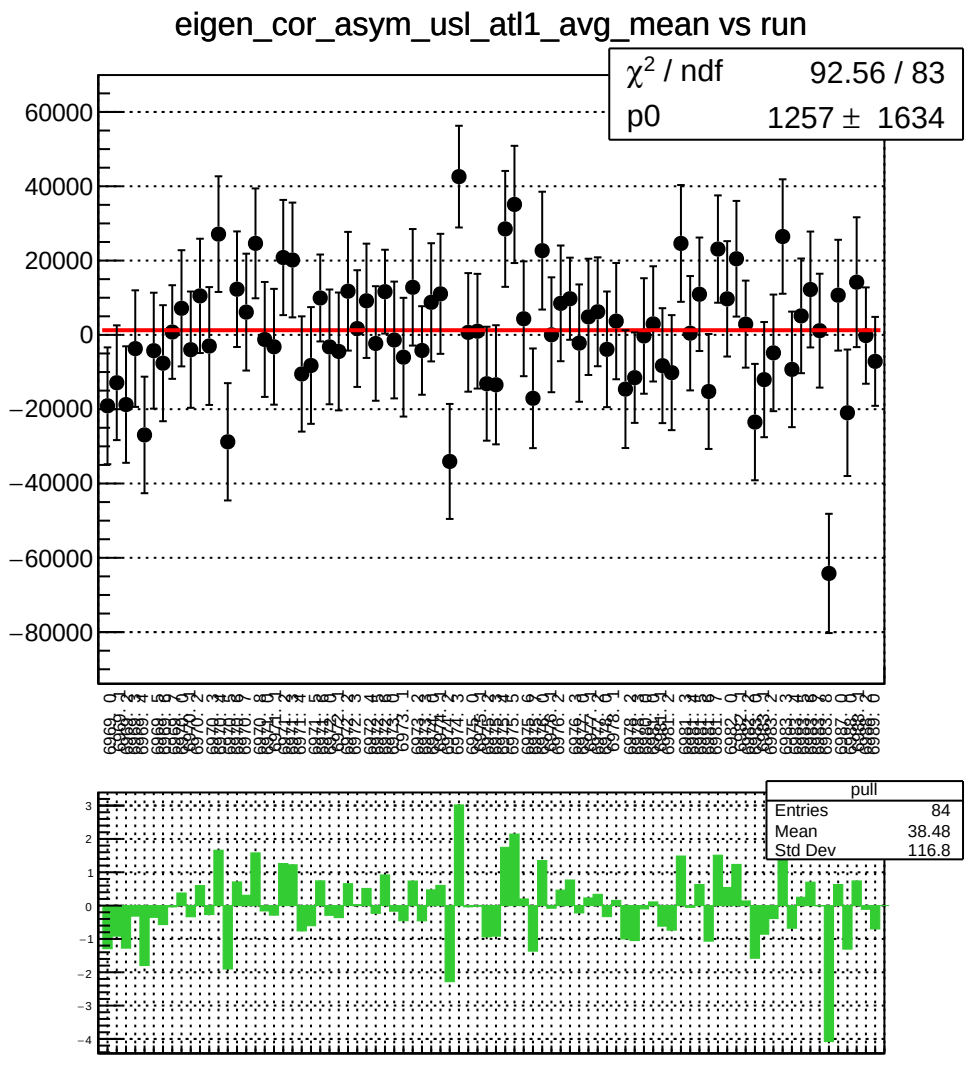

pull1D
Entries 84
Mean −0.01079
Std Dev 1.05
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

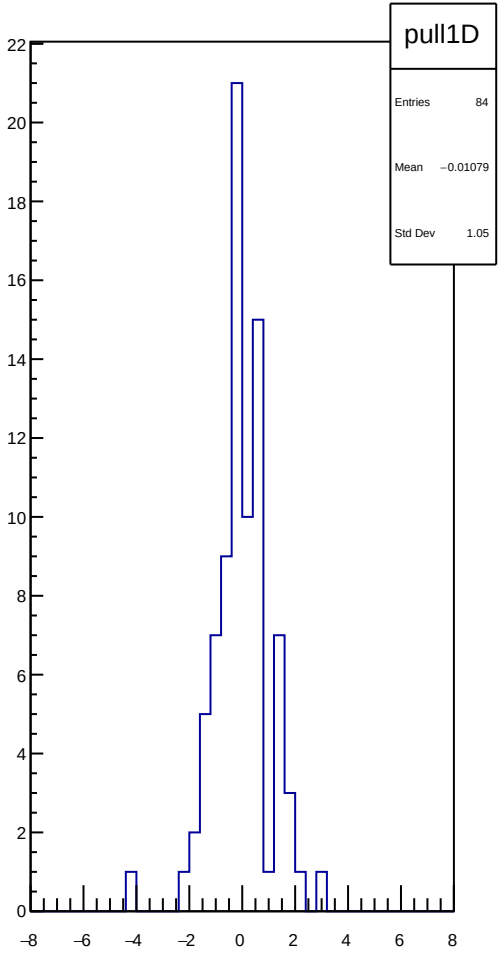

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 2087 / 83
p0 1494 ± 1.156
1900
1800
1700
1600
1500
1400

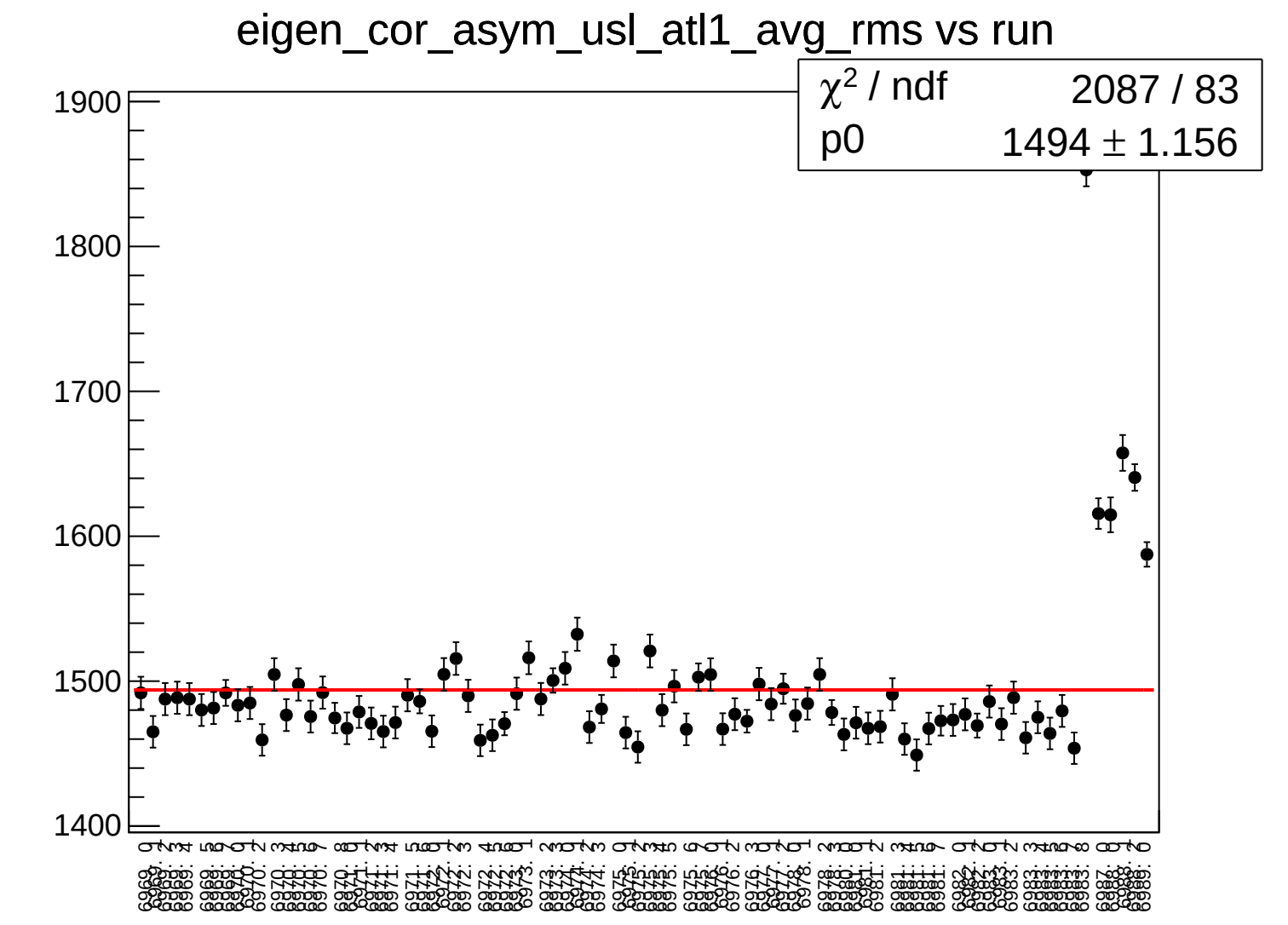

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 105.3 / 83
p0 −1794 ± 1551
pull
Entries 84
Mean −22.56
Std Dev 0

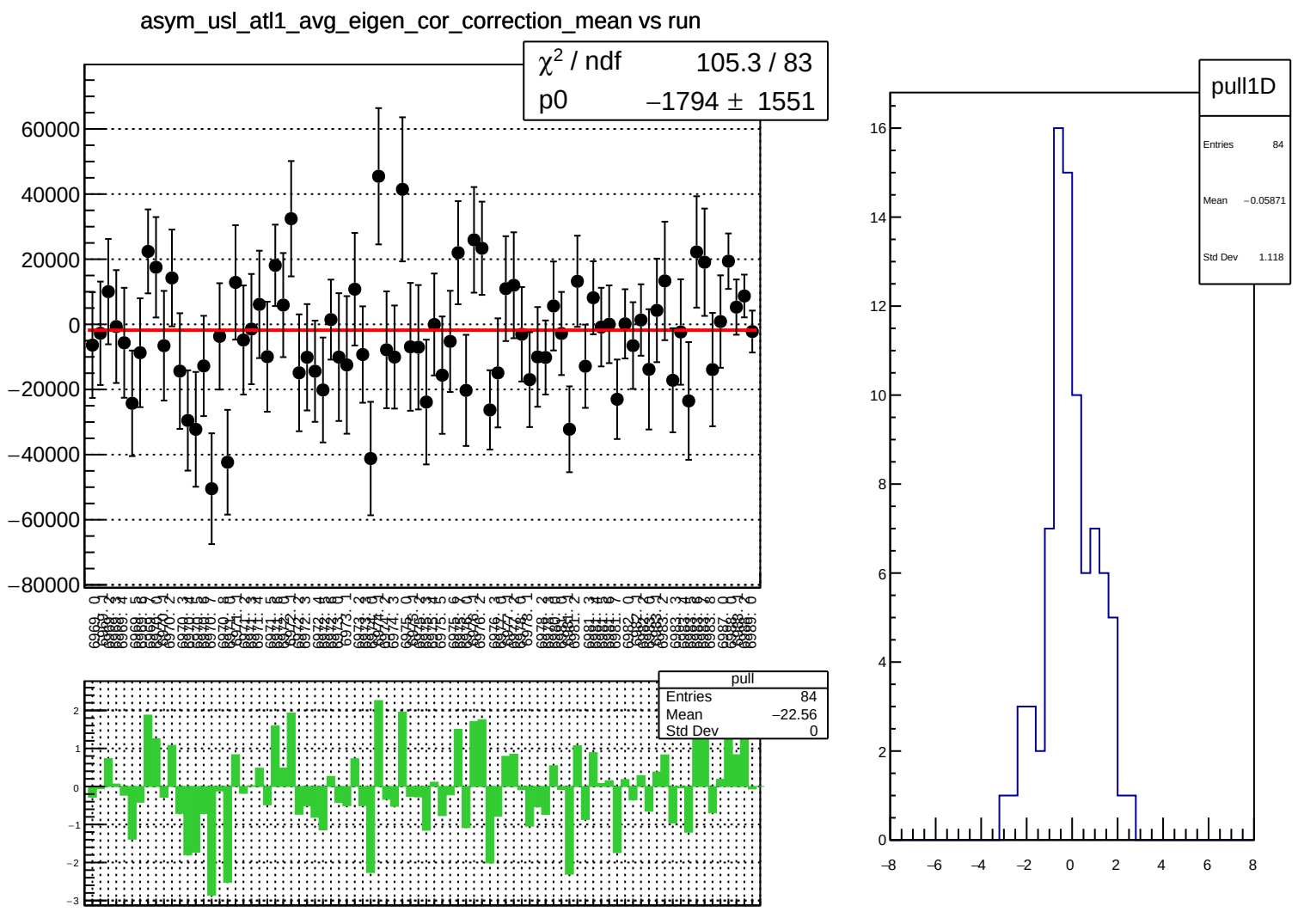

pull1D
Entries 84
Mean −0.05871
Std Dev 1.118

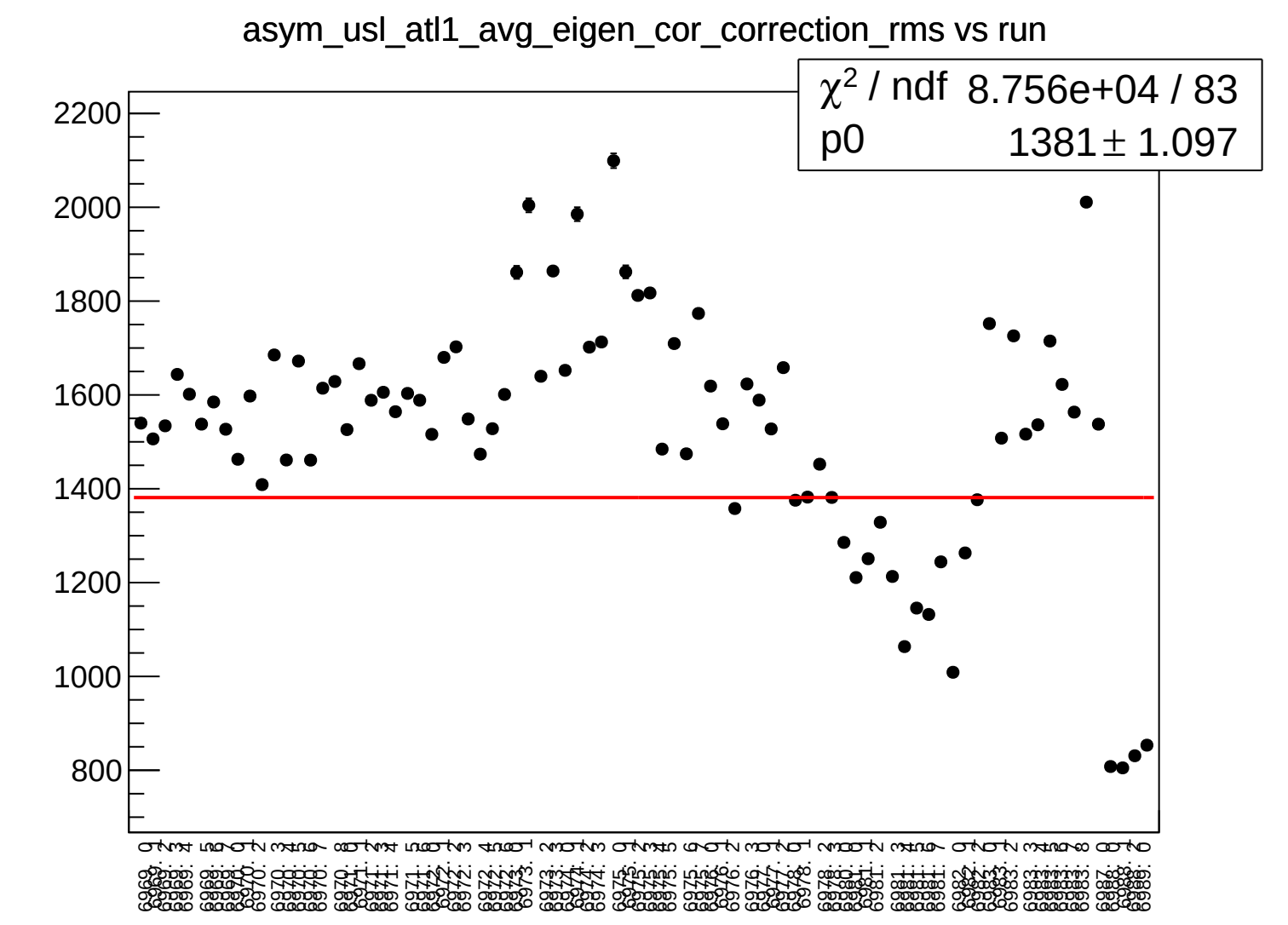

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 8.756e+04 / 83
p0 1381 ± 1.097
2200
2000
1800
1600
1400
1200
1000
800

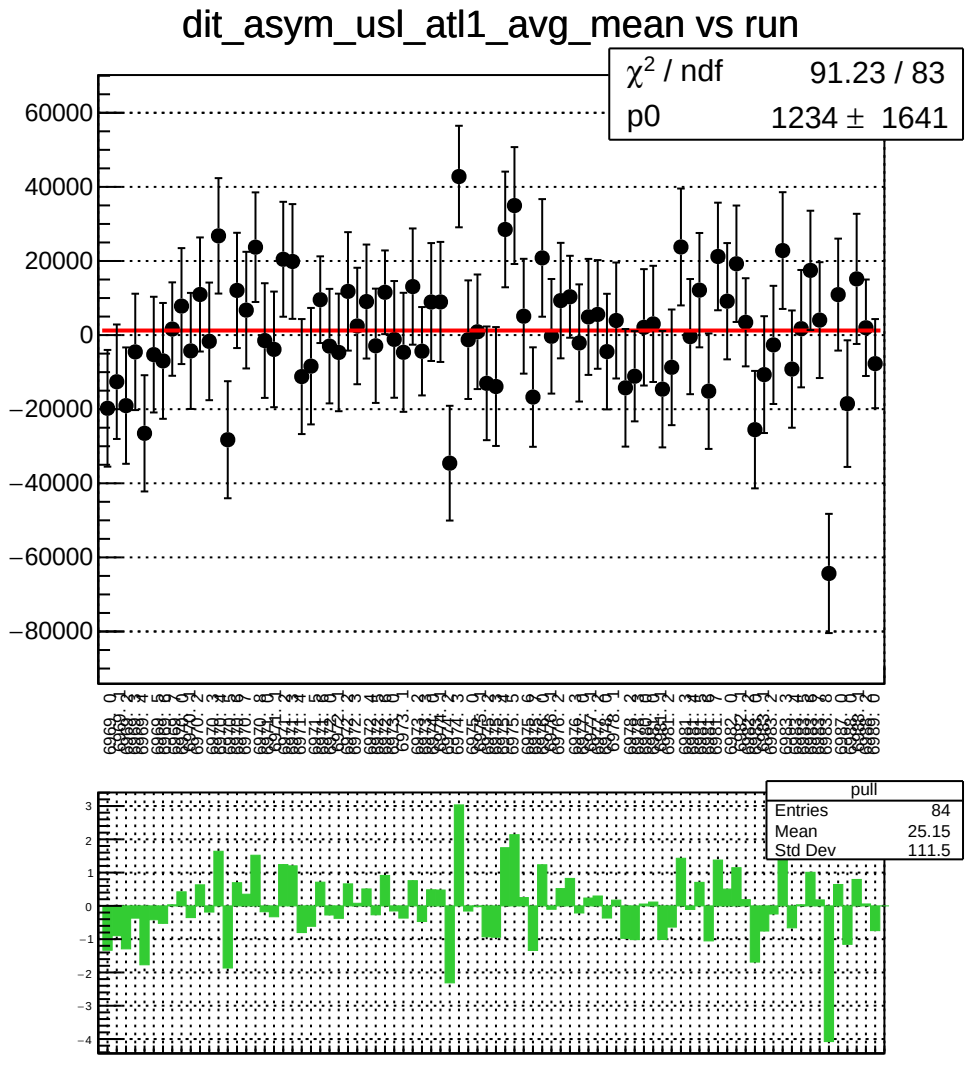

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 92.56 / 83
p0 1257 ± 1634
pull
Entries 84
Mean 38.48
Std Dev 116.8

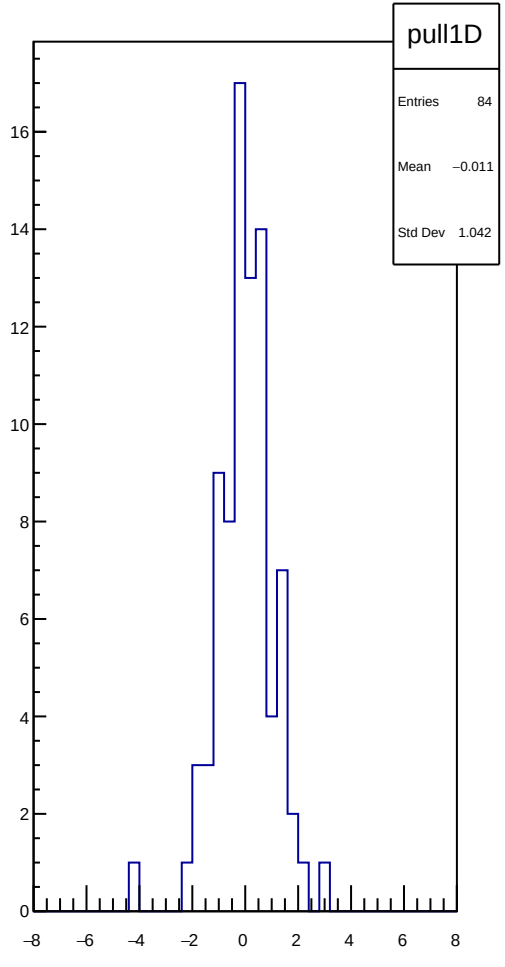

pull1D
Entries 84
Mean −0.01079
Std Dev 1.05

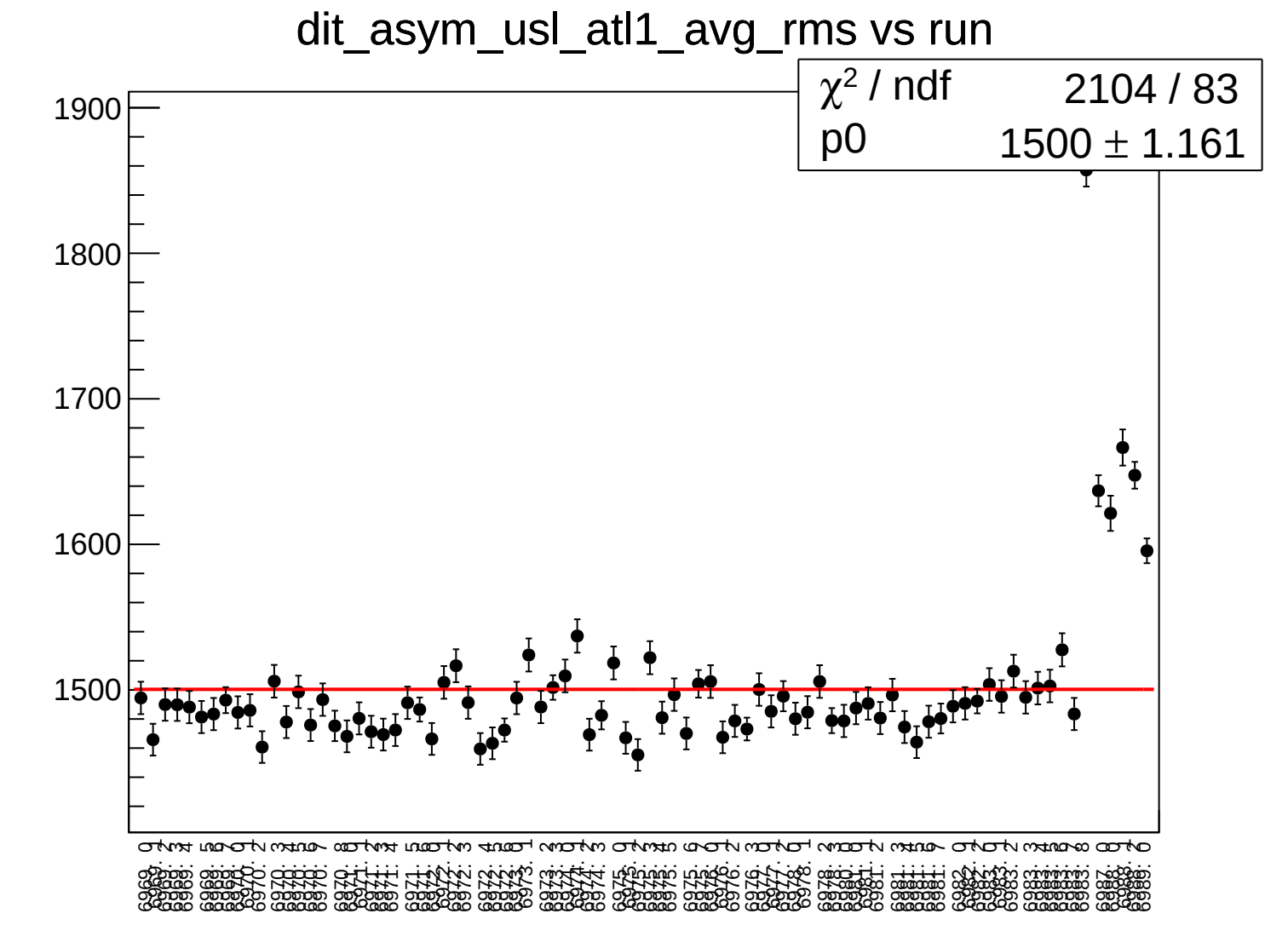

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 2087 / 83
p0 1494 ± 1.156
1900
1800
1700
1600
1500
1400

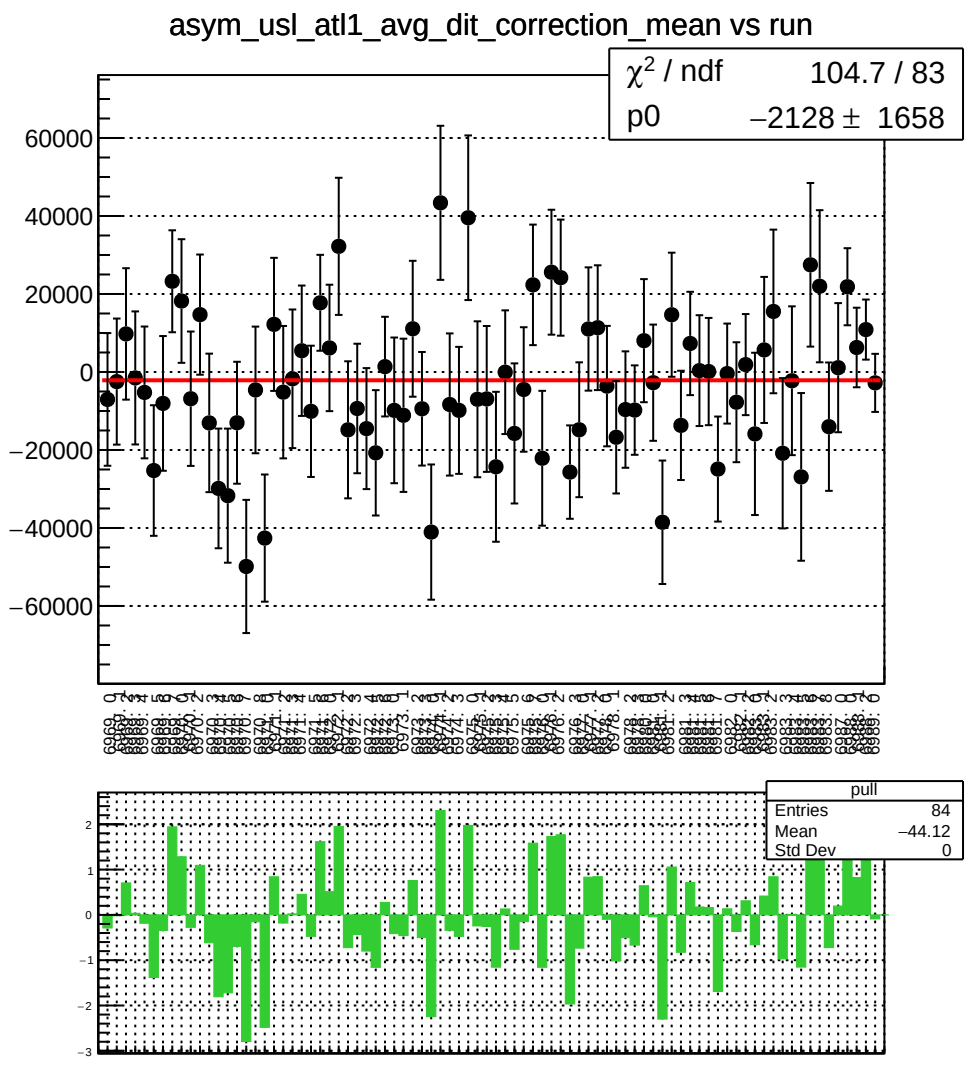

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 105.3 / 83
p0 −1794 ± 1551
pull
Entries 84
Mean −22.56
Std Dev 0
pull1D
Entries 84
Mean −0.05871
Std Dev 1.118

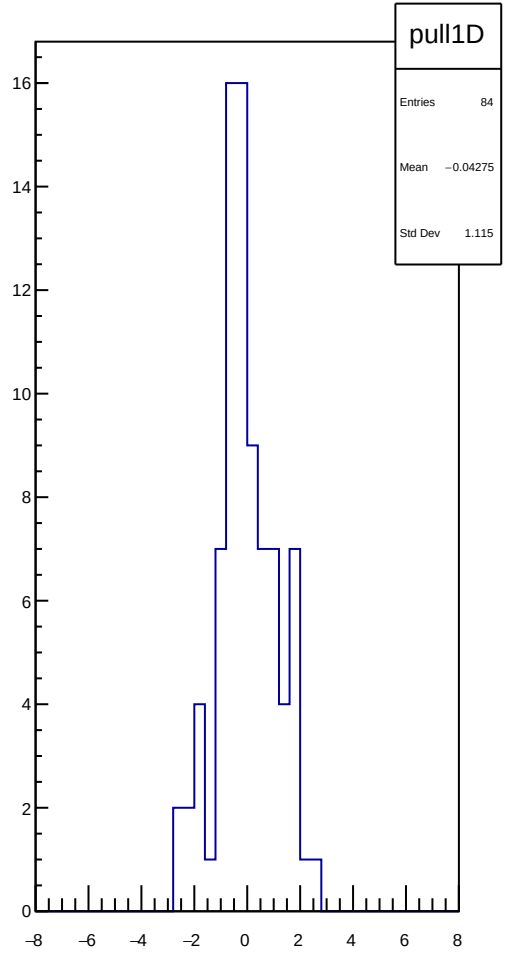

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8.756e+04 / 83
p0 1381 ± 1.097
2200
2000
1800
1600
1400
1200
1000
800

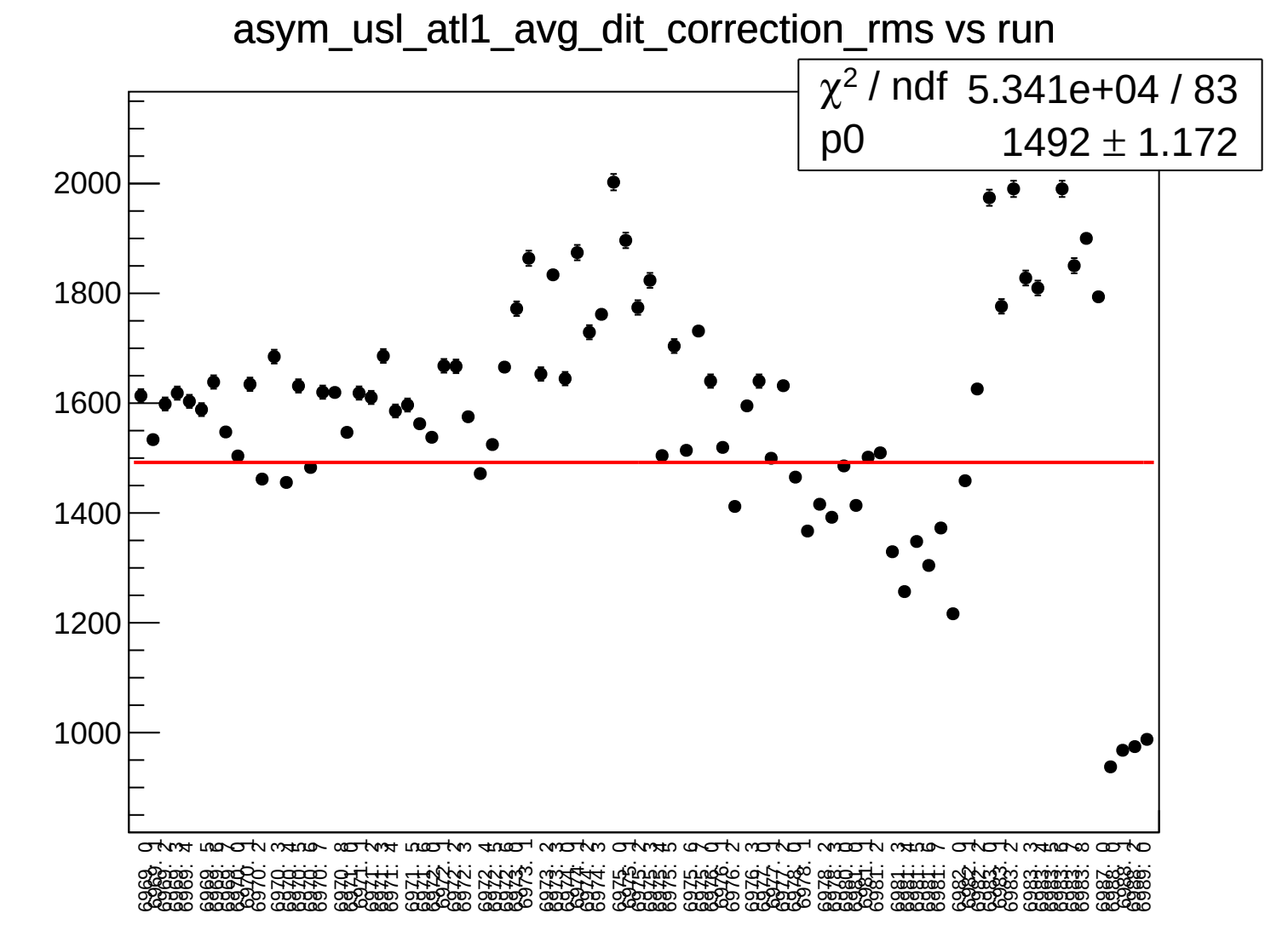

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 91.23 / 83
p0 1234 ± 1641
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 25.15
Std Dev 111.5
3
2
1
0
−1
−2
−3
−4

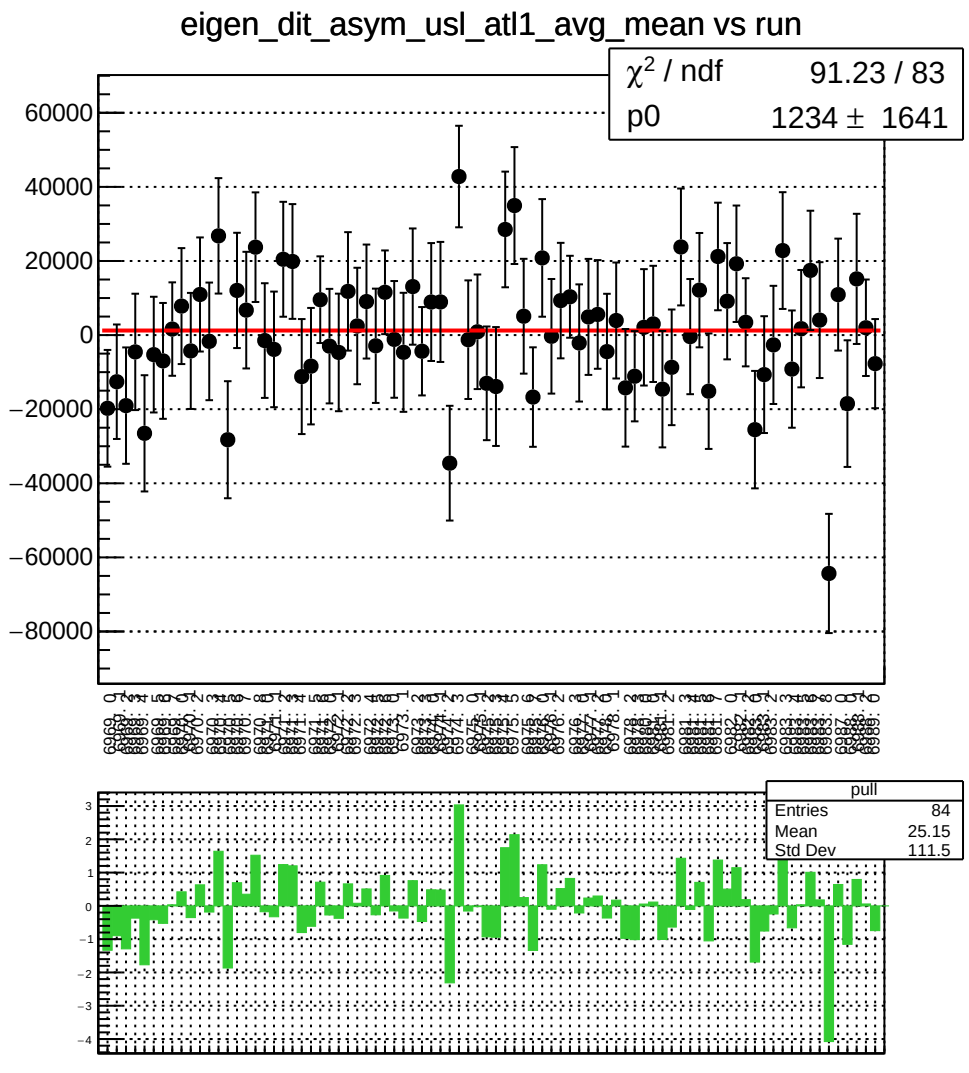

pull1D
Entries 84
Mean −0.011
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

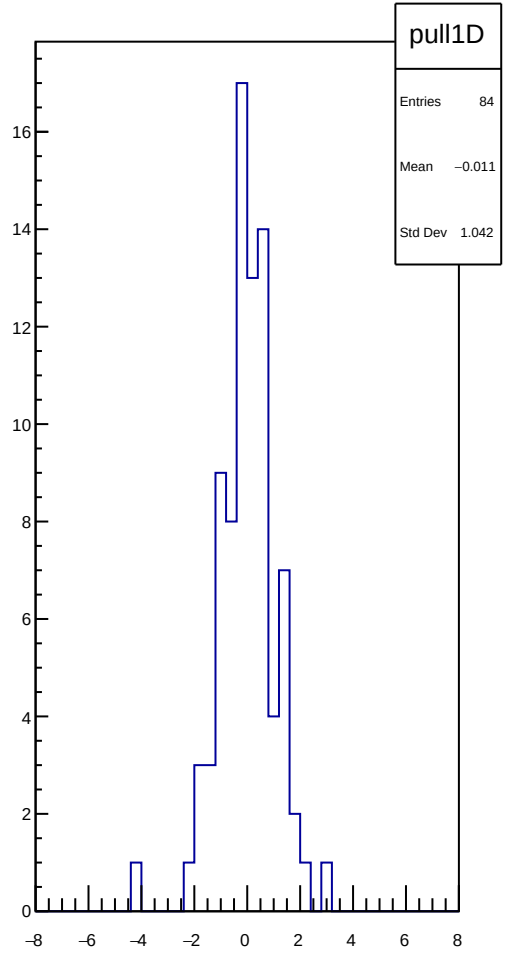

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 2104 / 83
p0 1500 ± 1.161
1900
1800
1700
1600
1500

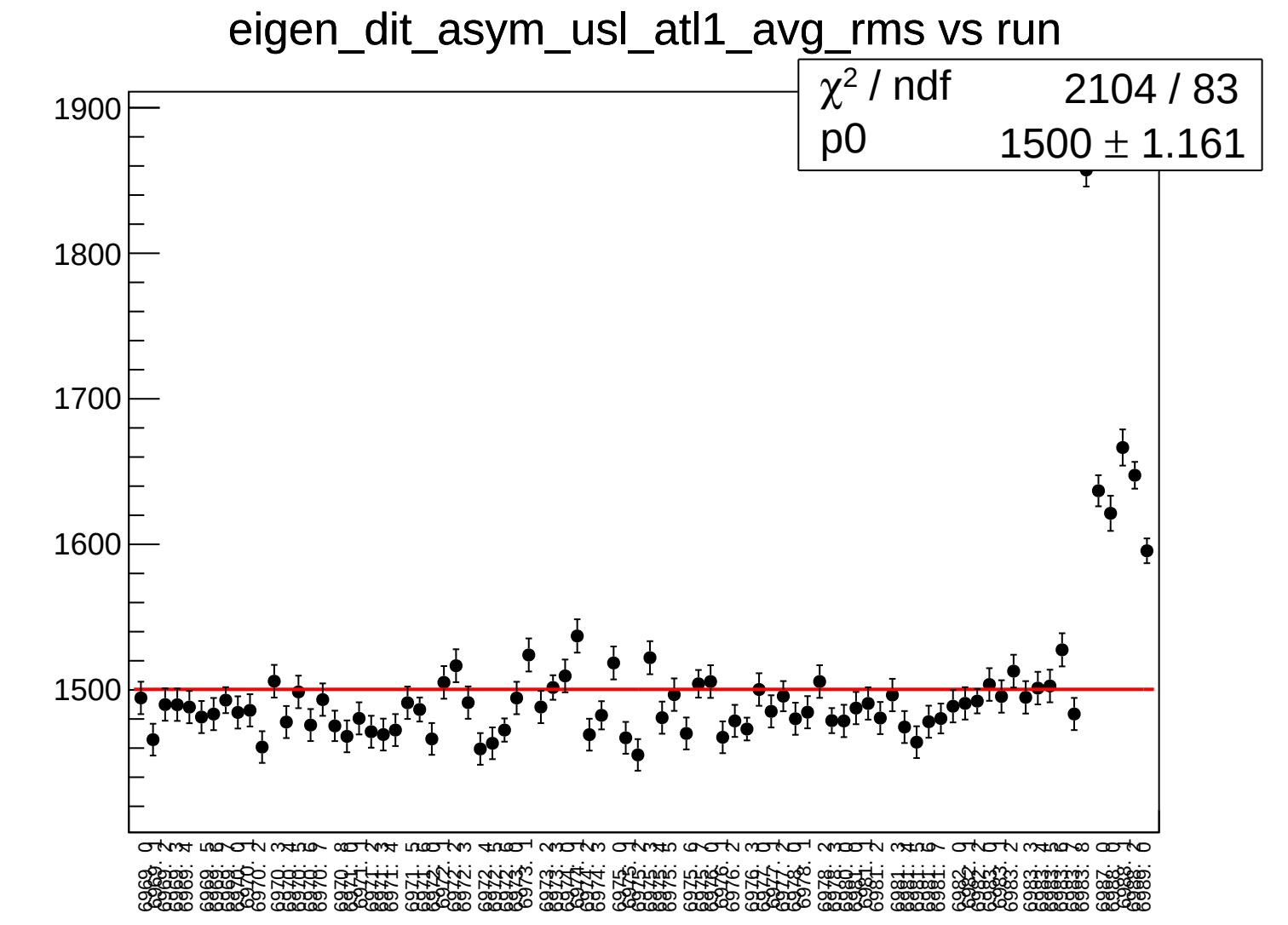

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 104.7 / 83
p0 −2128 ± 1658
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −44.12
Std Dev 0
2
1
0
−1
−2
−3

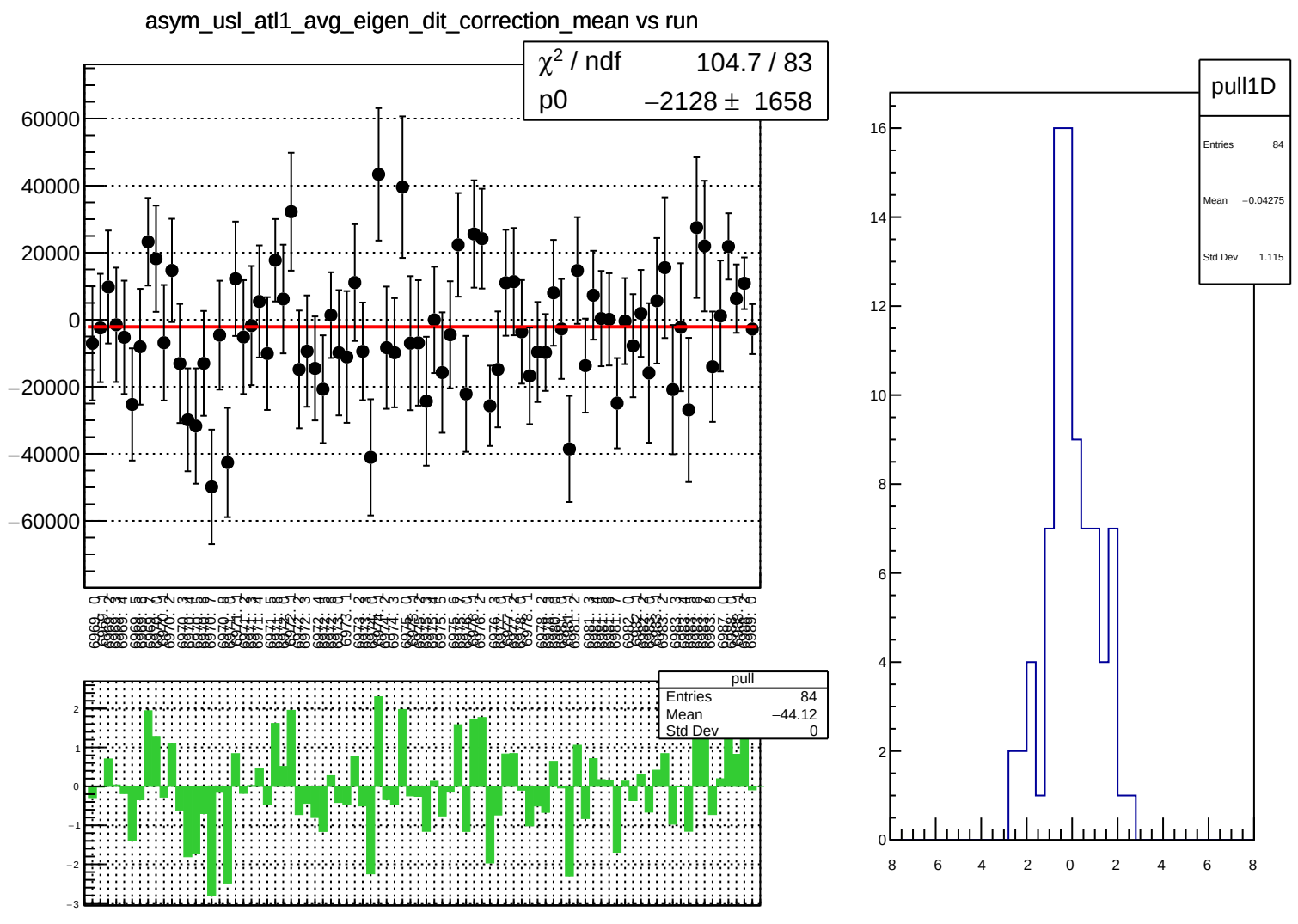

pull1D
Entries 84
Mean −0.04275
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

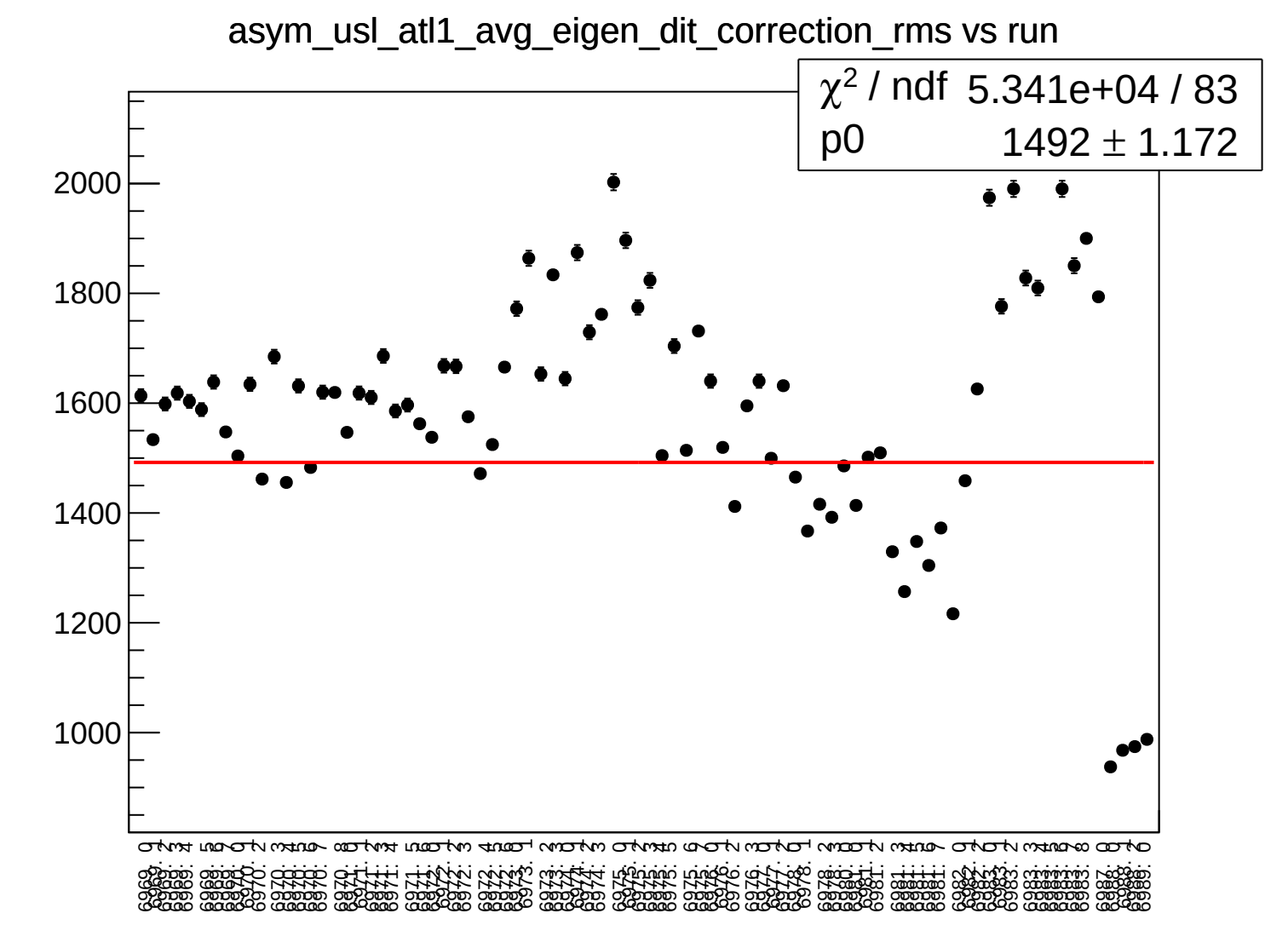

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 5.341e+04 / 83
p0 1492 ± 1.172
2000
1800
1600
1400
1200
1000

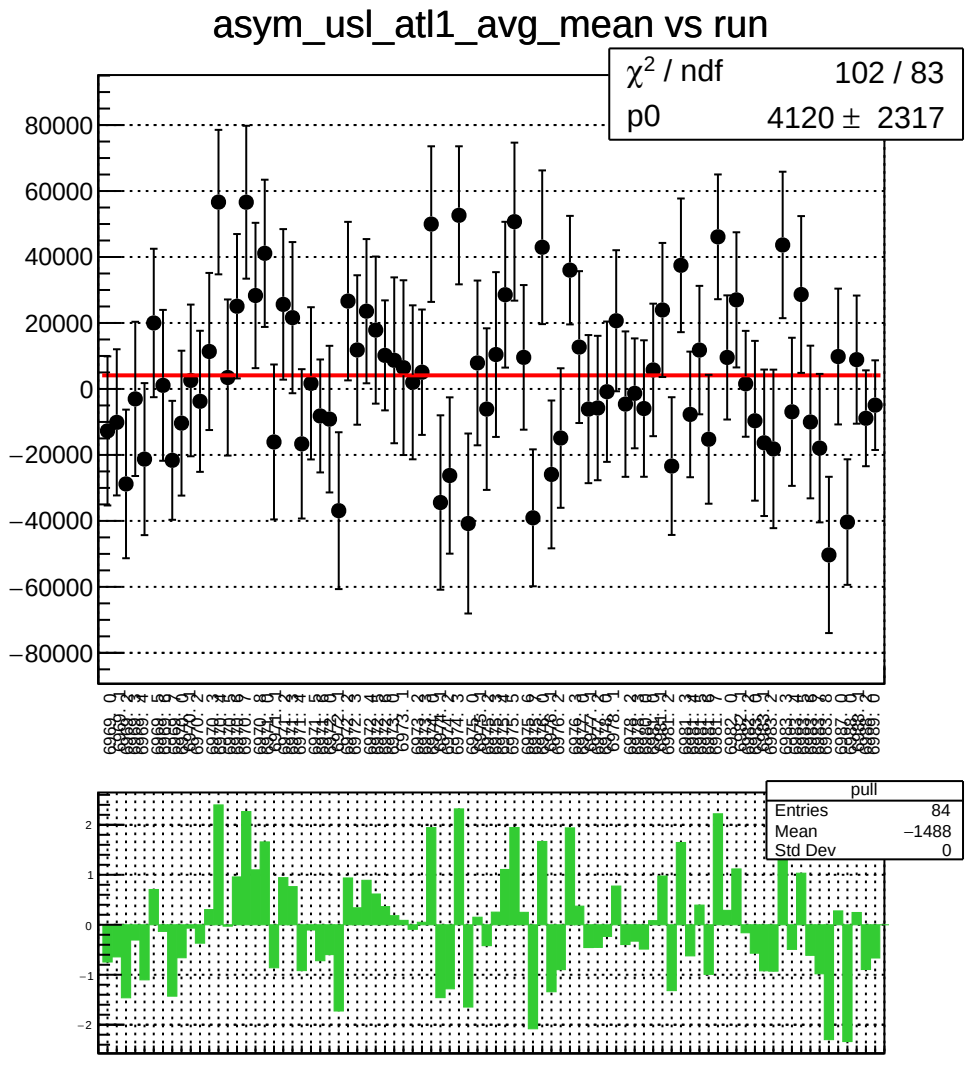

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 91.23 / 83
p0 1234 ± 1641
pull
Entries 84
Mean 25.15
Std Dev 111.5

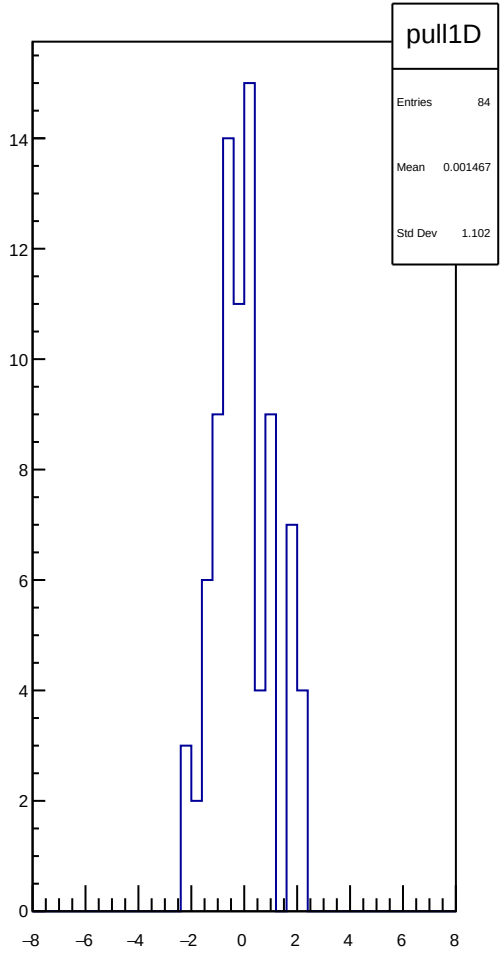

pull1D
Entries 84
Mean −0.011
Std Dev 1.042

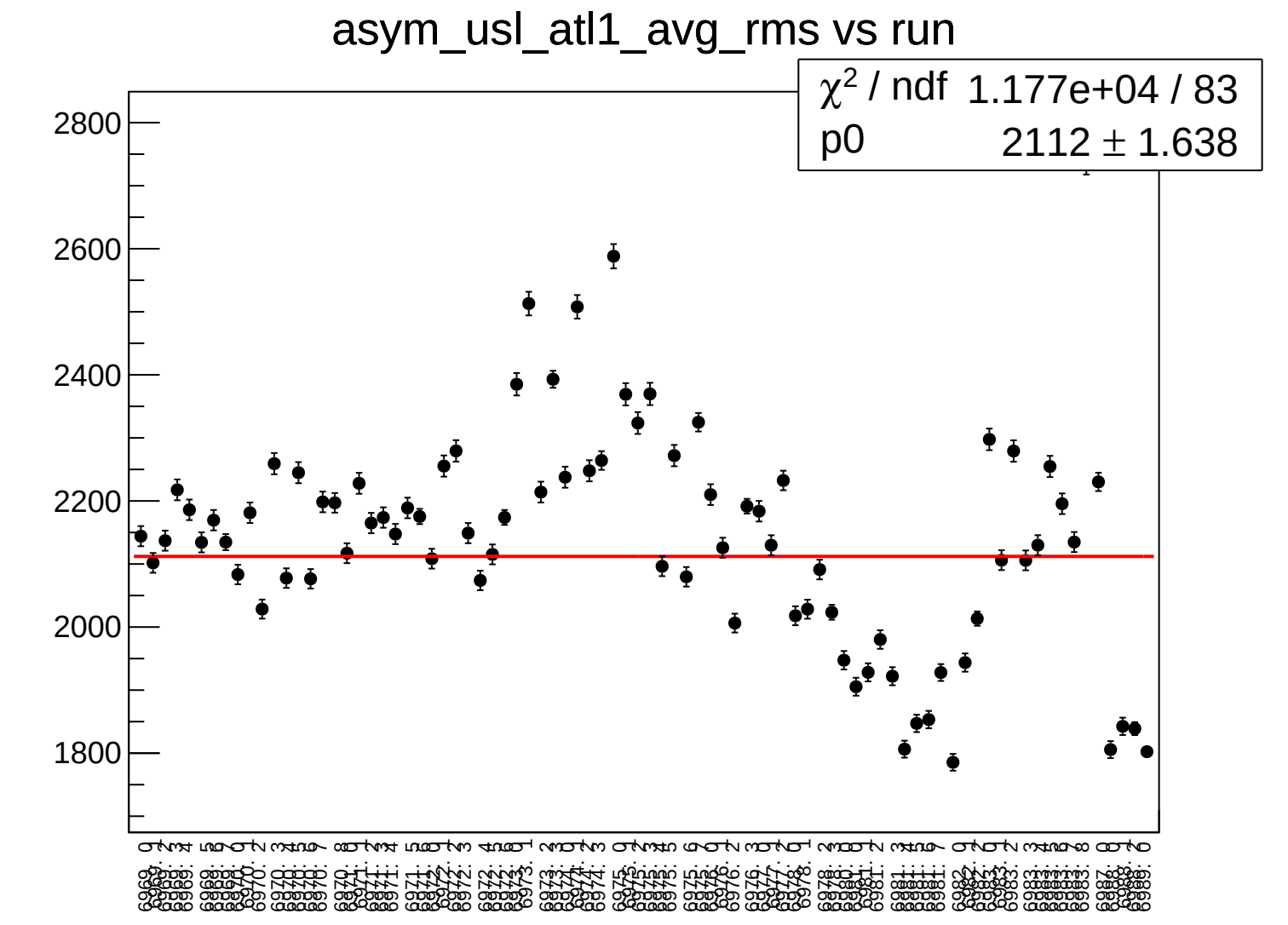

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 2104 / 83
p0 1500 ± 1.161
1900
1800
1700
1600
1500

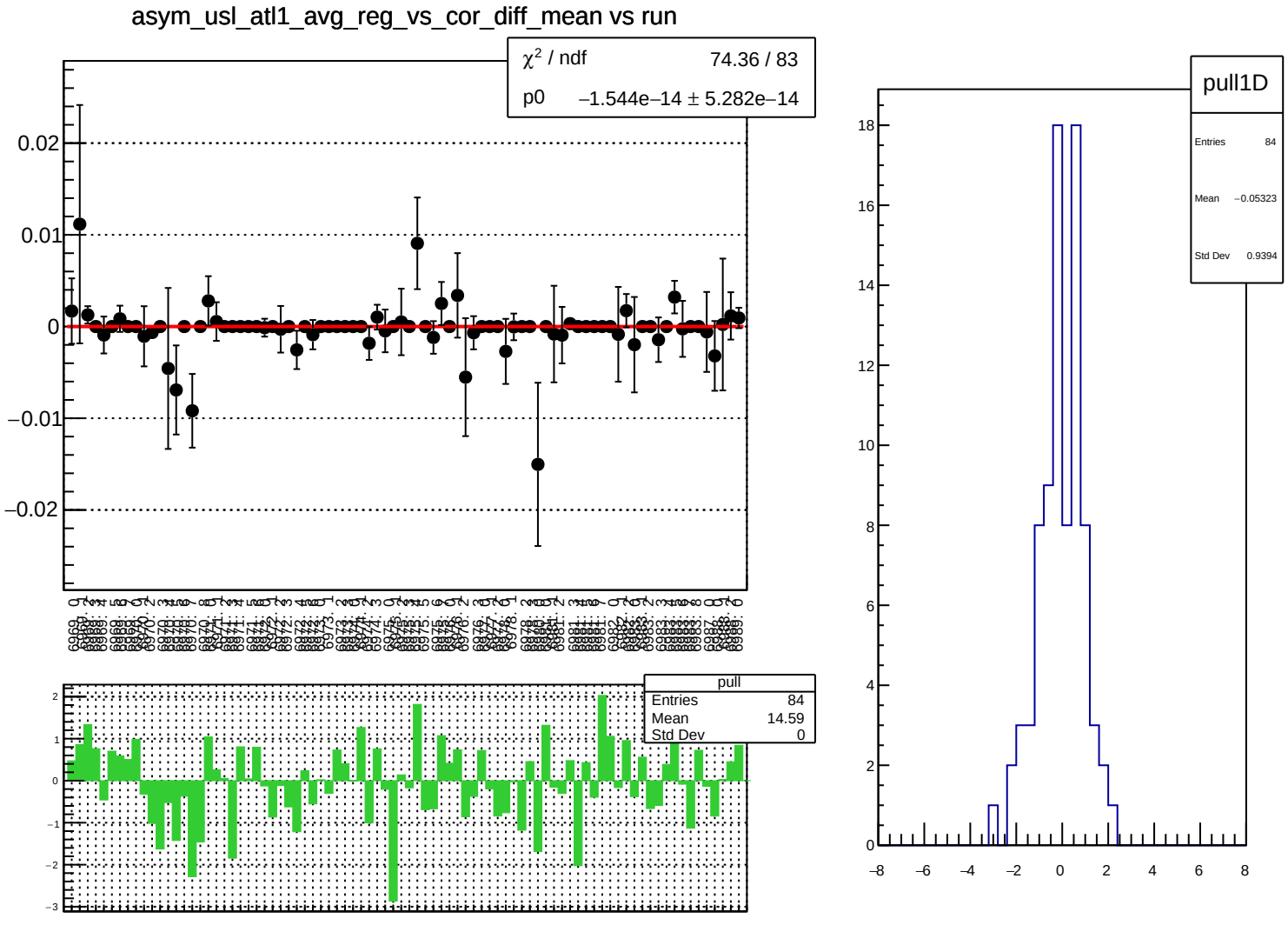

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 104.7 / 83
p0 −2128 ± 1658
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −44.12
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.04275
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

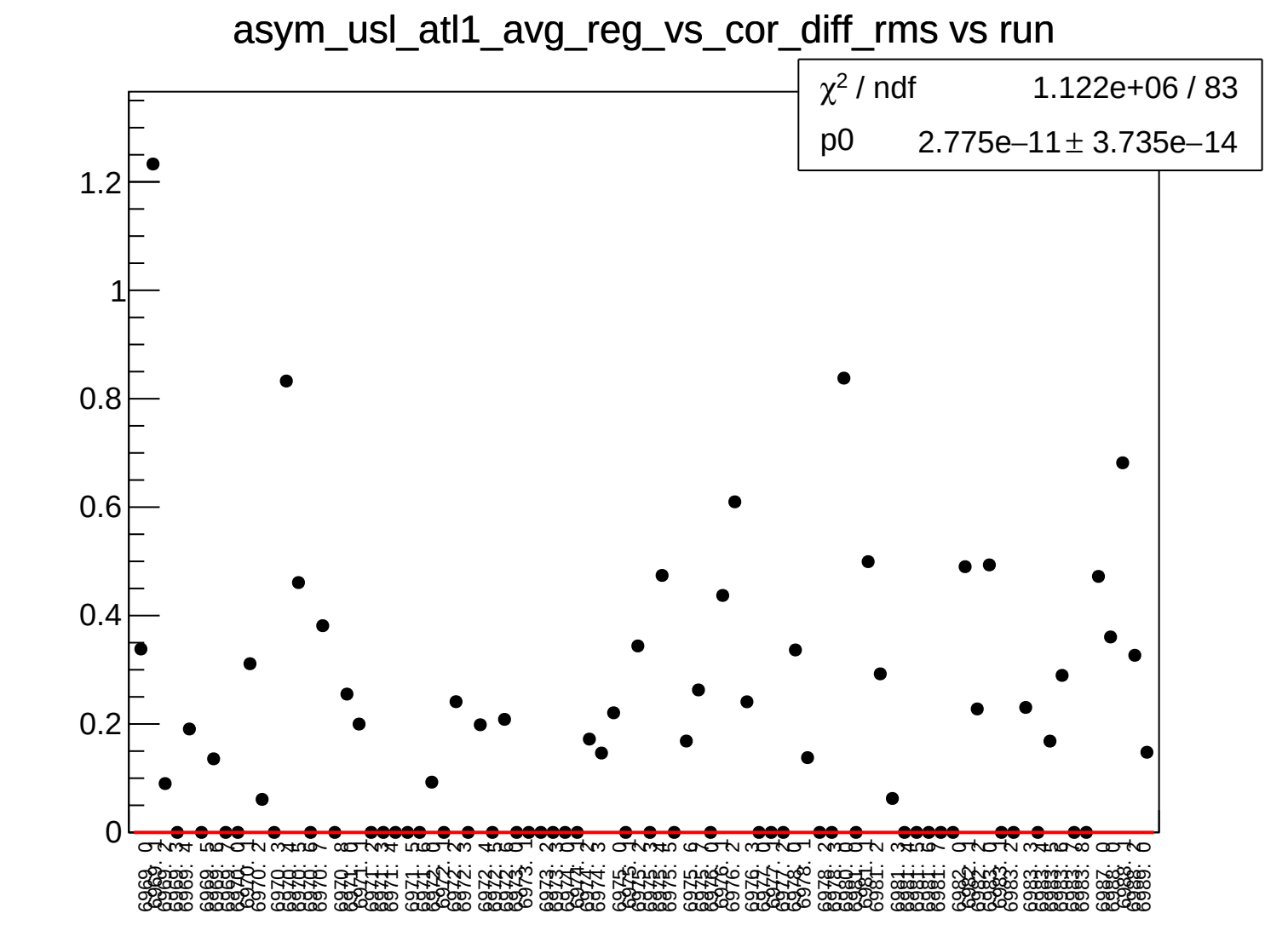

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.341e+04 / 83
p0 1492 ± 1.172
2000
1800
1600
1400
1200
1000

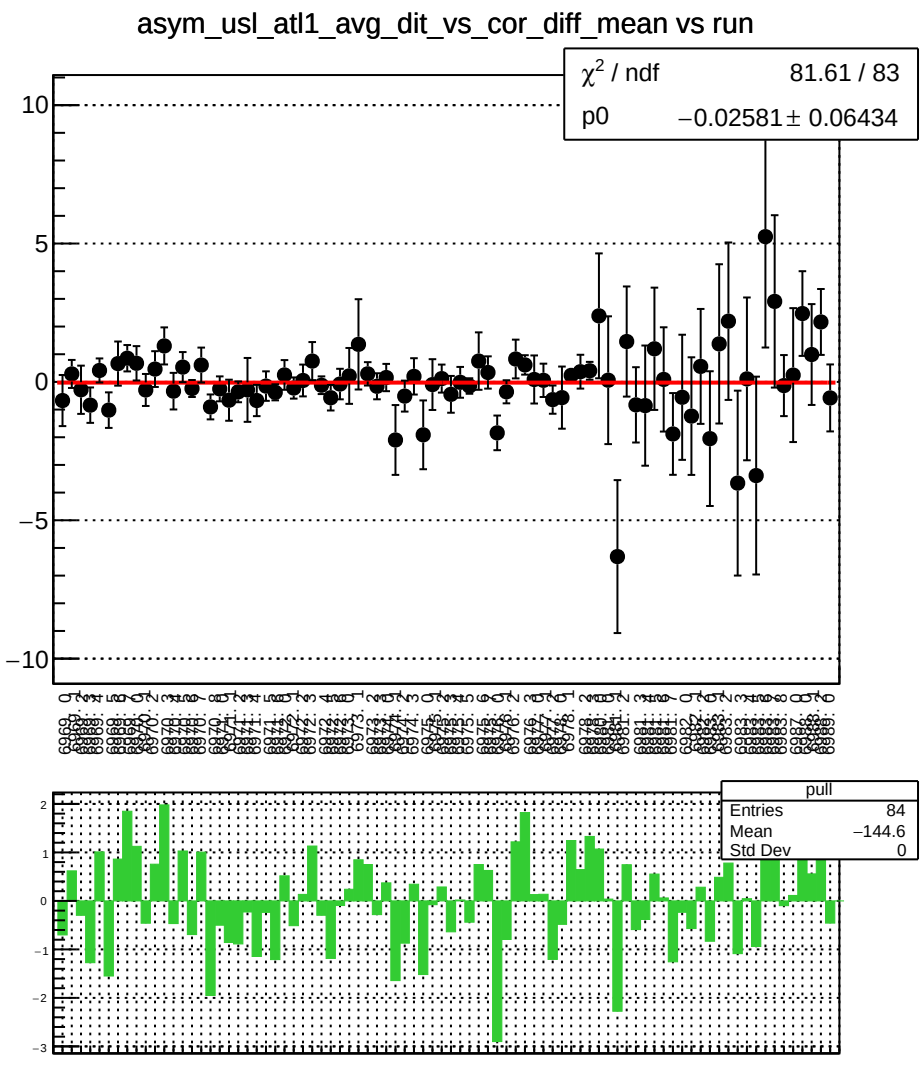

asym_usl_atl1_avg_mean vs run
χ² / ndf 102 / 83
p0 4120 ± 2317
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −1488
Std Dev 0
2
1
0
−1
−2

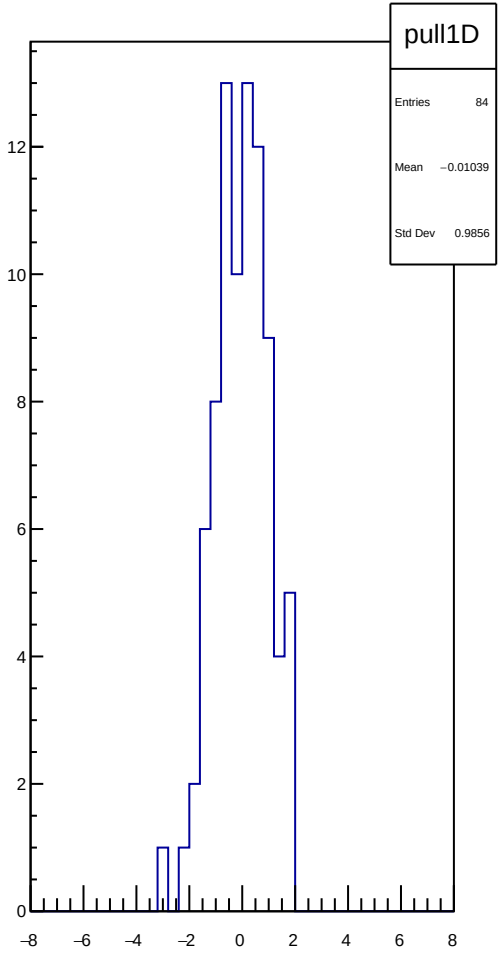

pull1D
Entries 84
Mean 0.001467
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

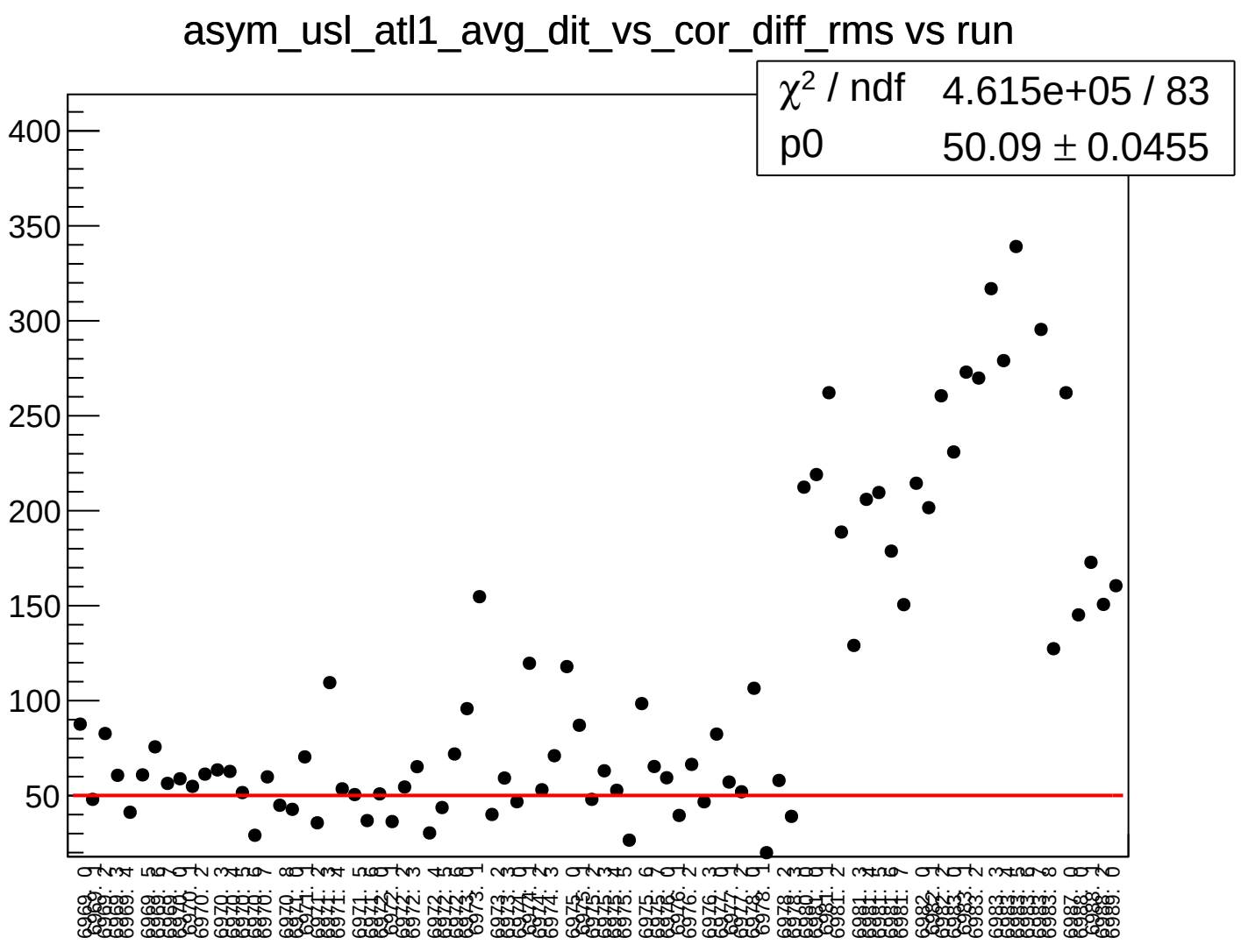

asym_usl_atl1_avg_rms vs run
χ² / ndf 1.177e+04 / 83
p0 2112 ± 1.638
2800
2600
2400
2200
2000
1800

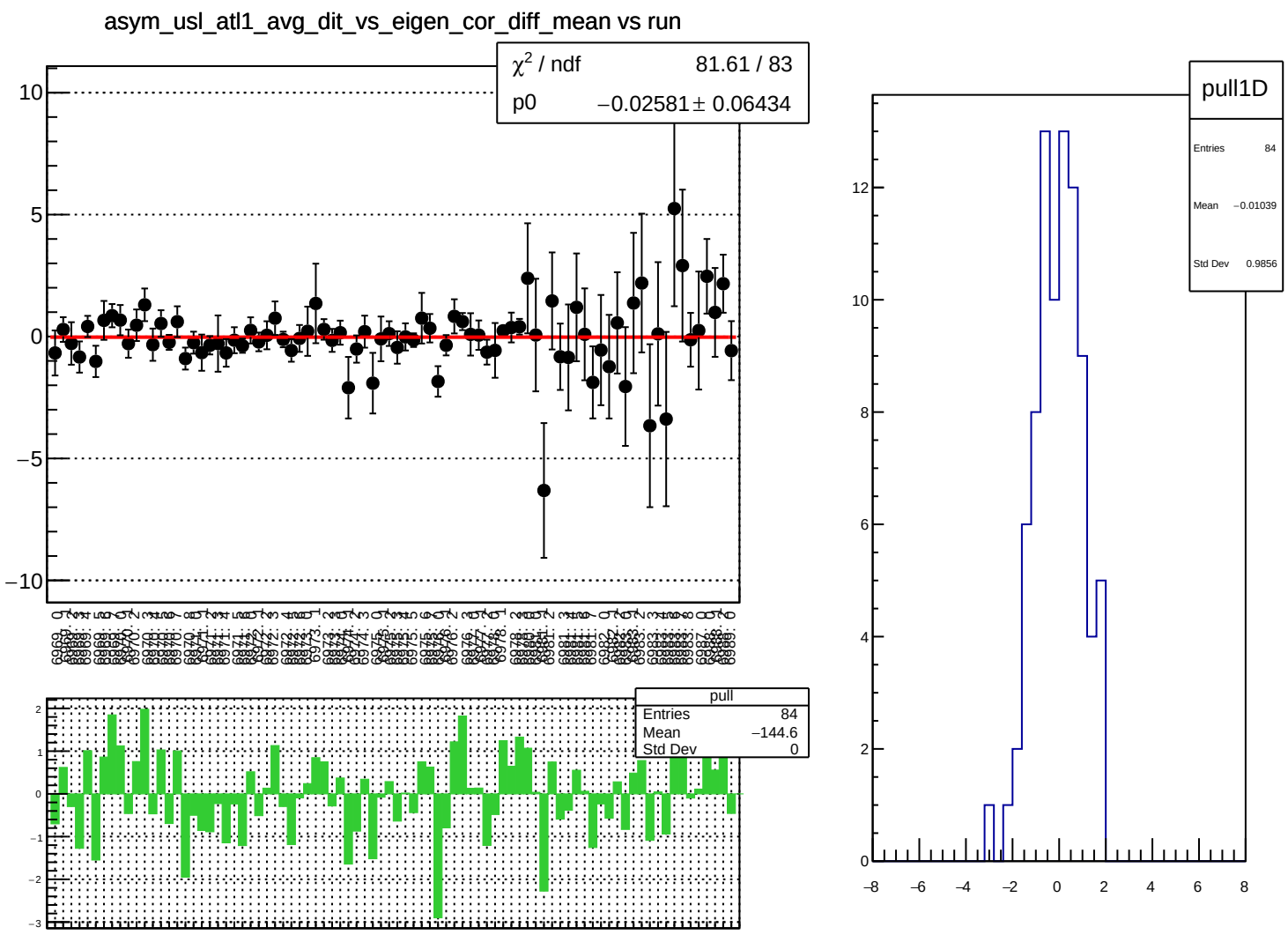

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.36 / 83
p0 −1.544e−14 ± 5.282e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 14.59
Std Dev 0
pull1D
Entries 84
Mean −0.05323
Std Dev 0.9394

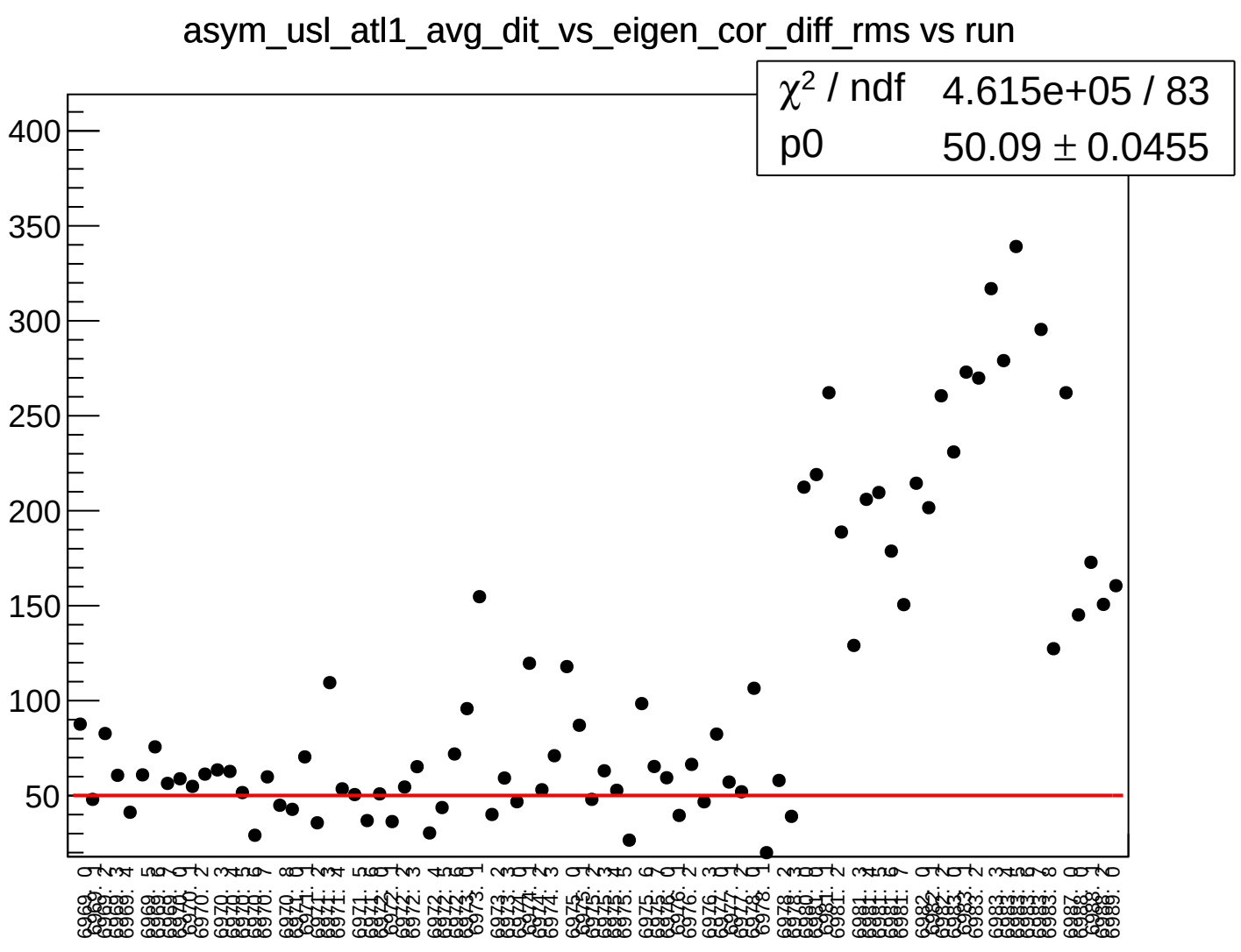

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.122e+06 / 83
p0 2.775e−11 ± 3.735e−14
1.2
1
0.8
0.6
0.4
0.2
0

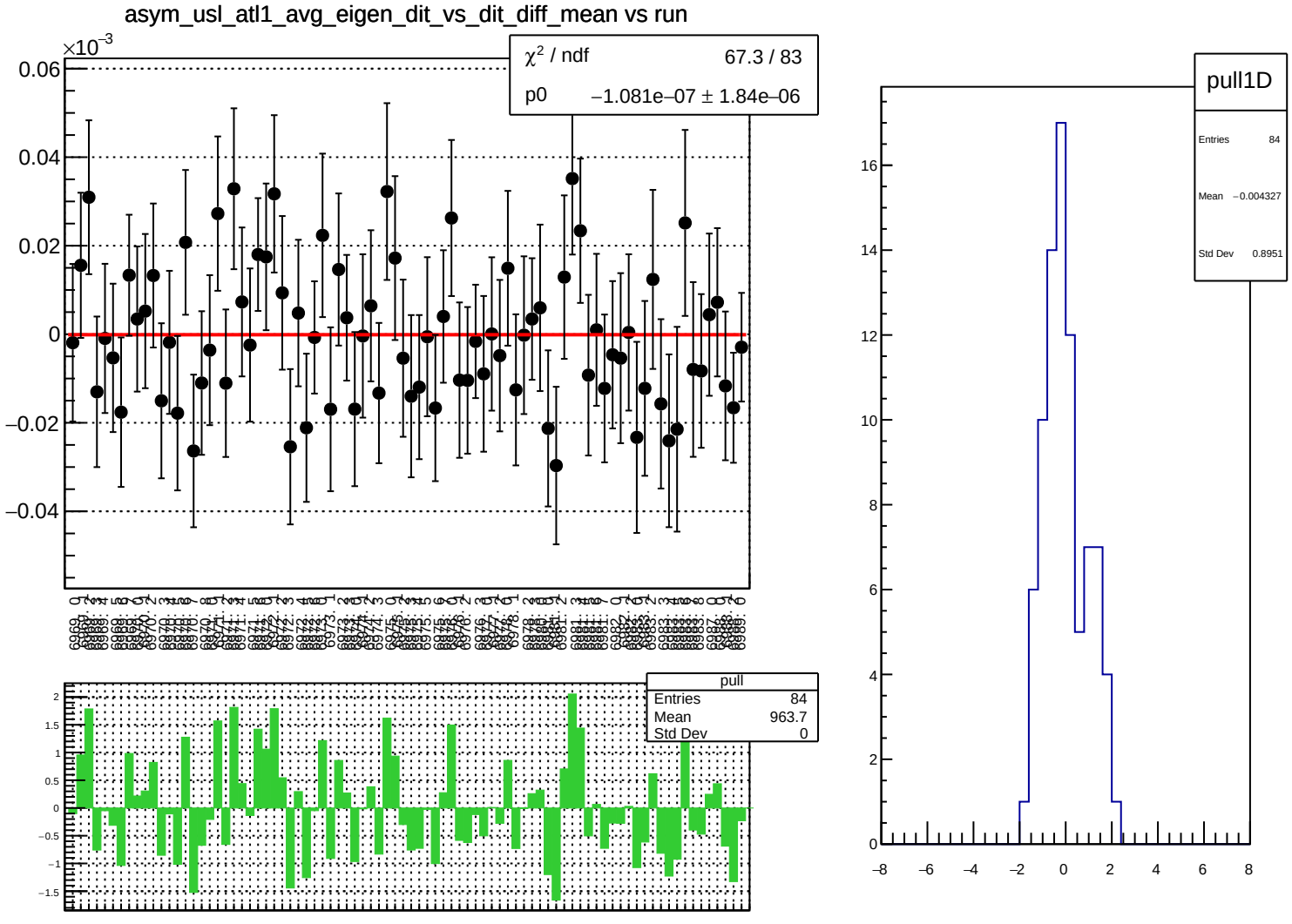

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.61 / 83
p0 −0.02581 ± 0.06434
pull
Entries 84
Mean −144.6
Std Dev 0

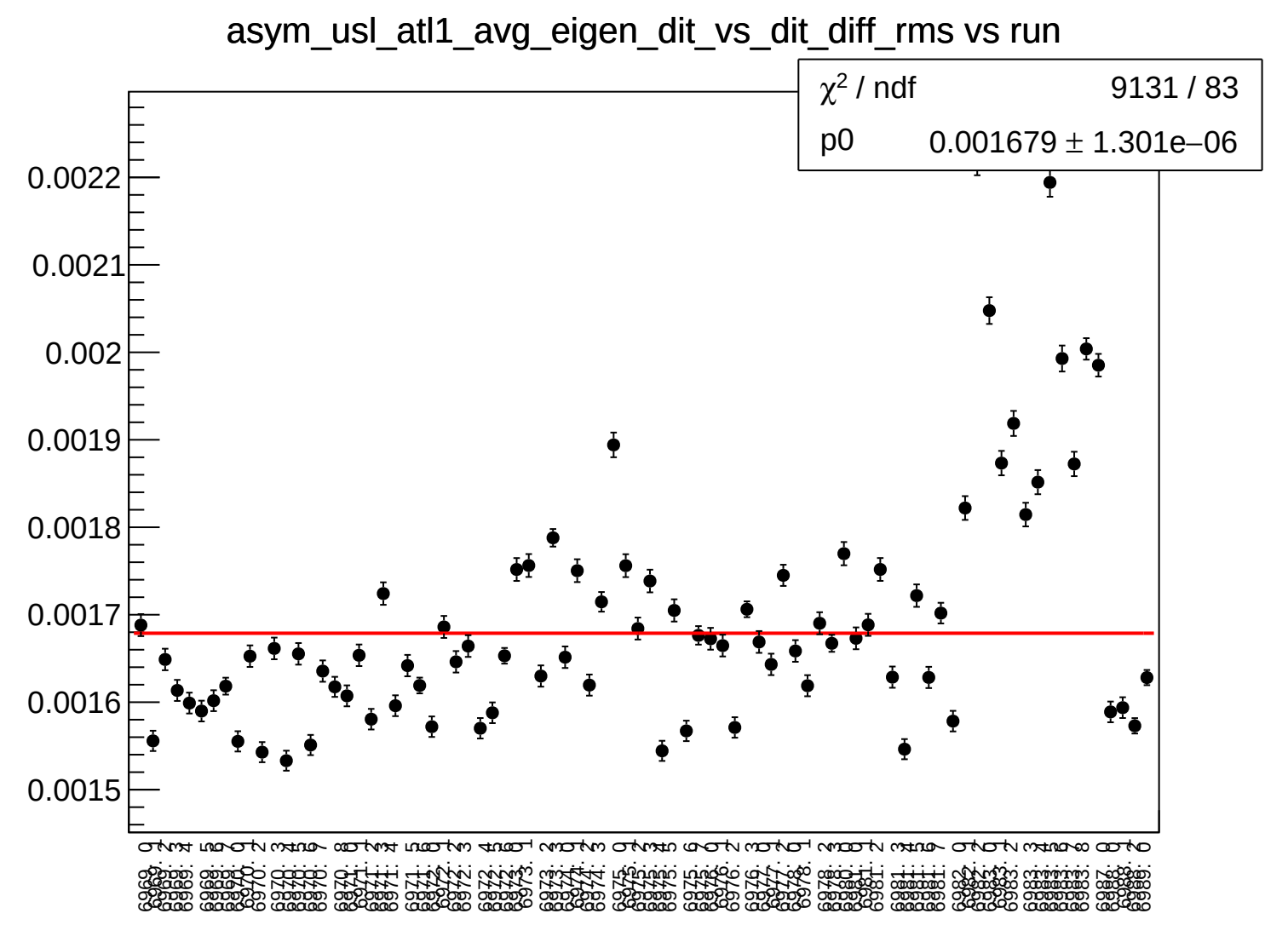

pull1D
Entries 84
Mean −0.01039
Std Dev 0.9856

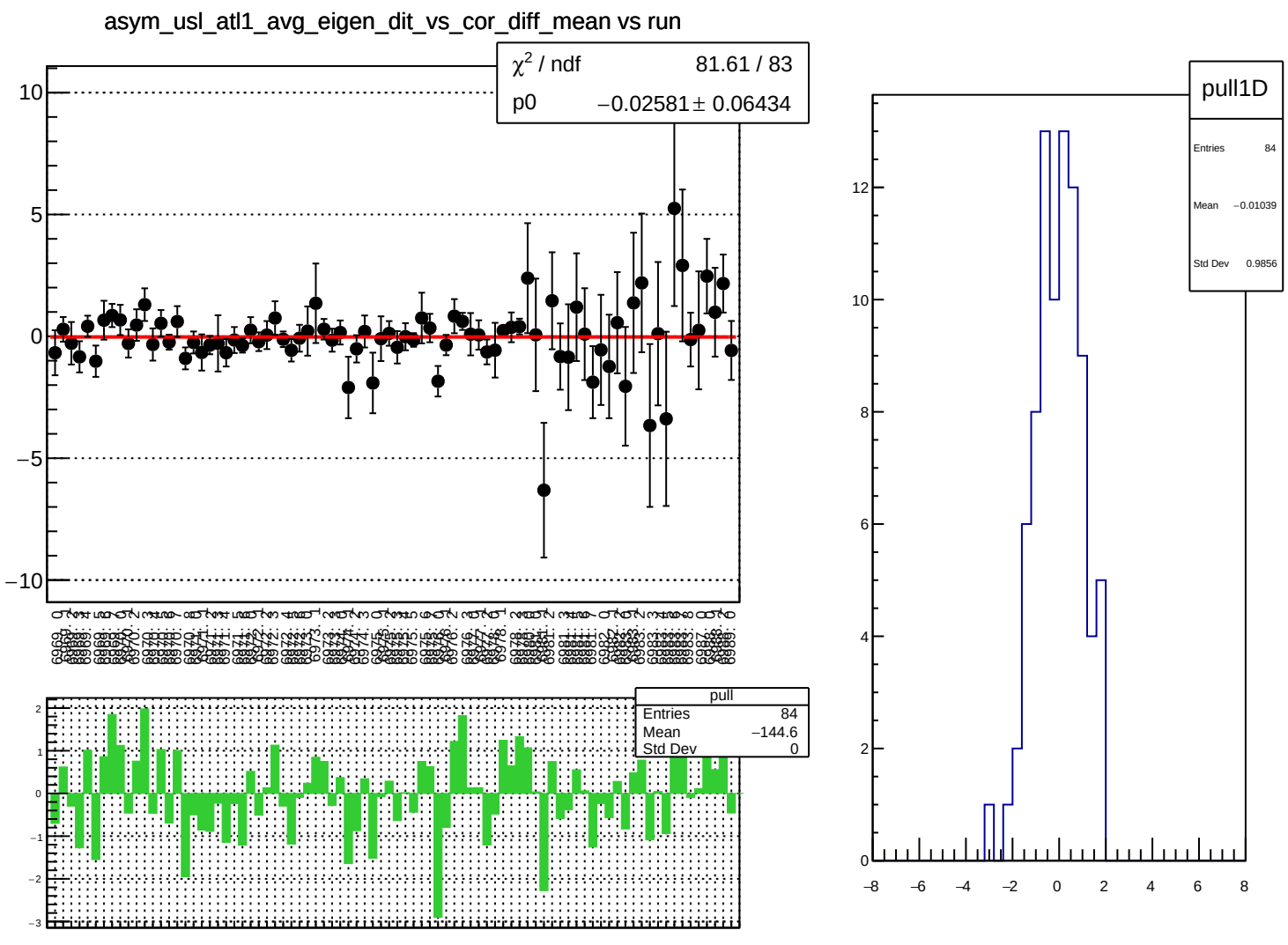

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.615e+05 / 83
p0 50.09 ± 0.0455
400
350
300
250
200
150
100
50

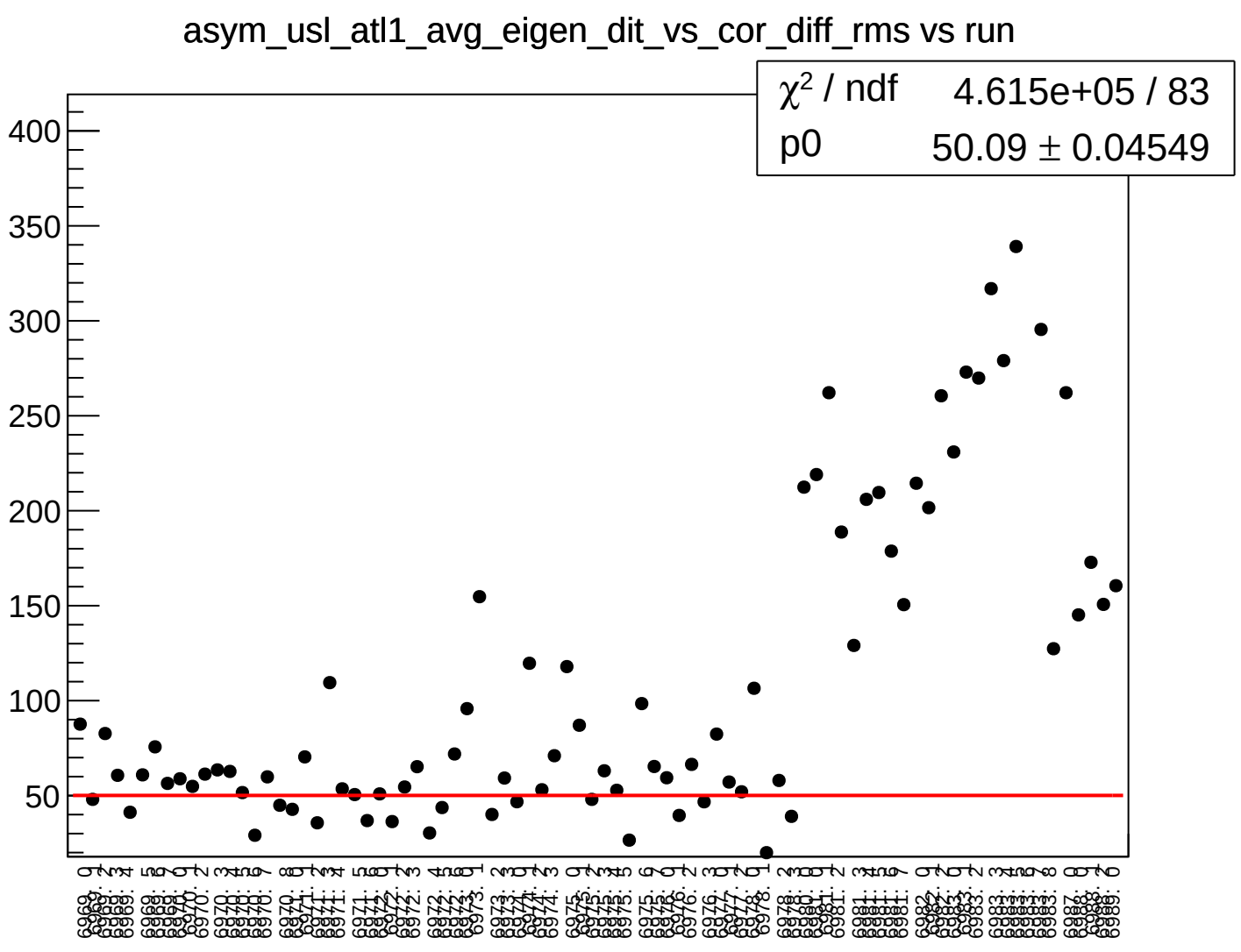

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.61 / 83
p0 −0.02581 ± 0.06434
pull
Entries 84
Mean −144.6
Std Dev 0
pull1D
Entries 84
Mean −0.01039
Std Dev 0.9856

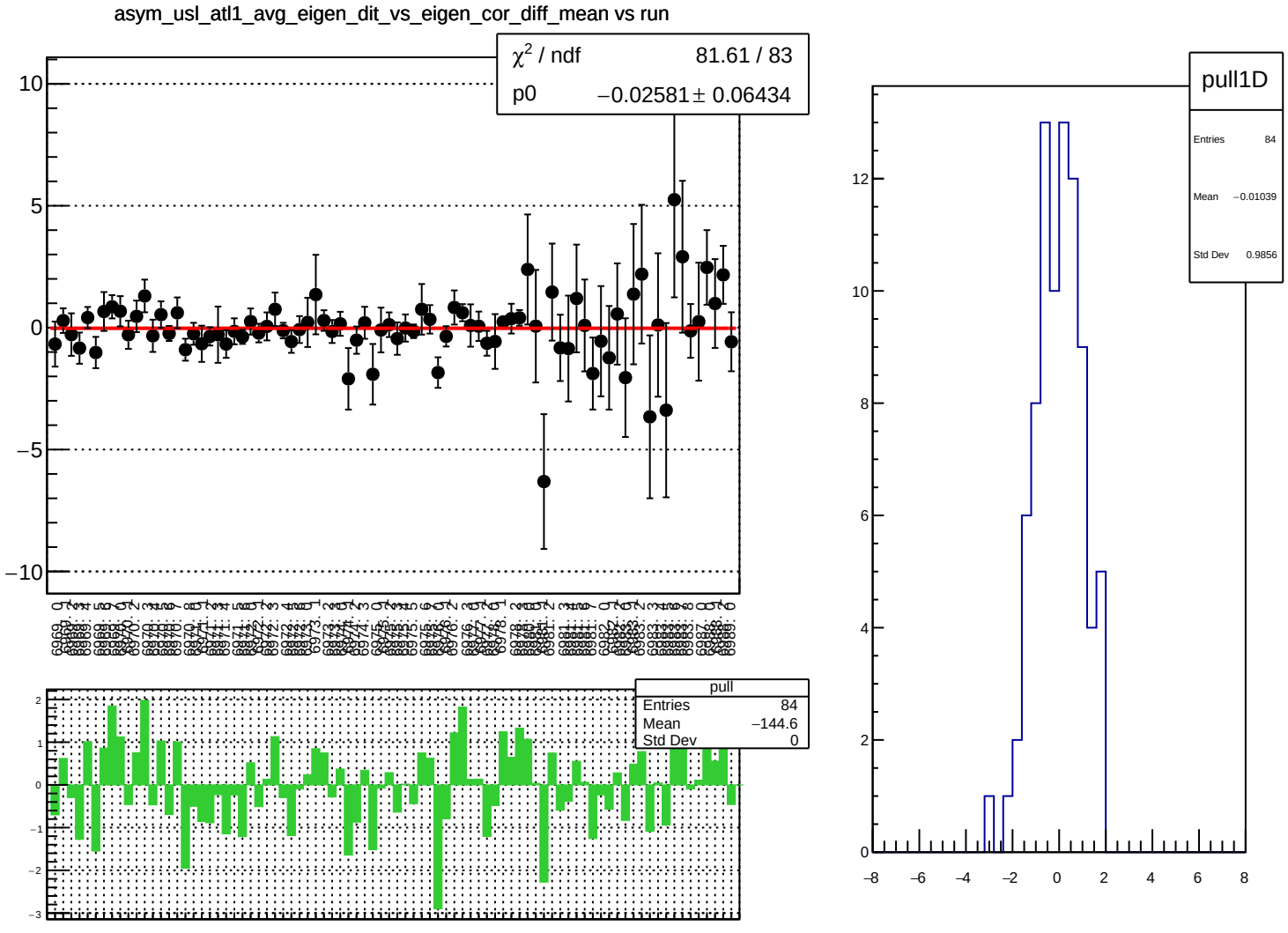

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.615e+05 / 83
p0 50.09 ± 0.0455
400
350
300
250
200
150
100
50

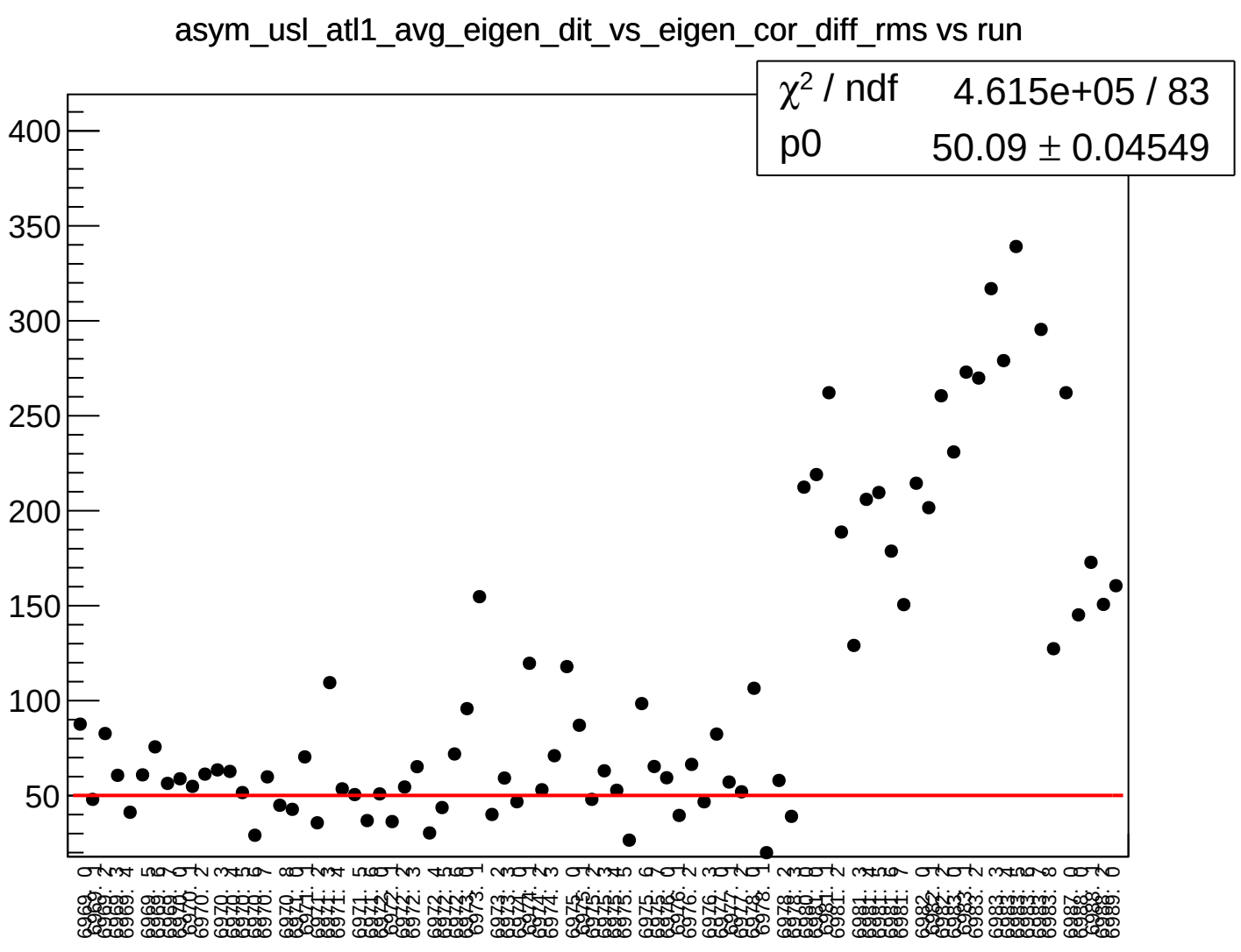

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.3 / 83
p0 −1.081e−07 ± 1.84e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 84
Mean 963.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.004327
Std Dev 0.8951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

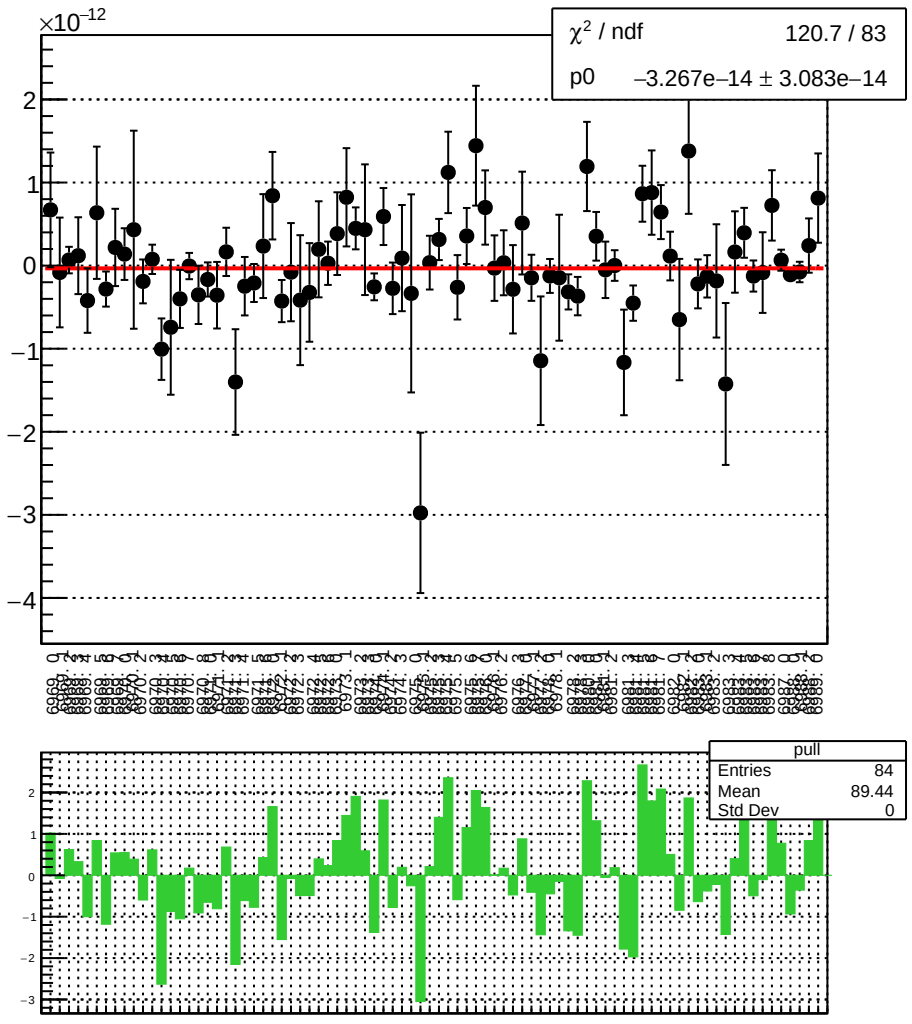

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9131 / 83
p0 0.001679 ± 1.301e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

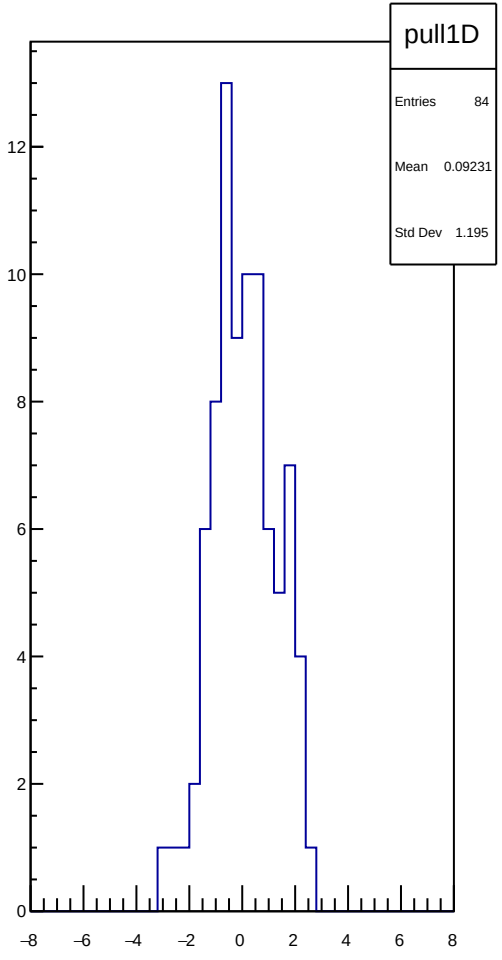

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.61 / 83
p0 −0.02581 ± 0.06434
pull
Entries 84
Mean −144.6
Std Dev 0
pull1D
Entries 84
Mean −0.01039
Std Dev 0.9856

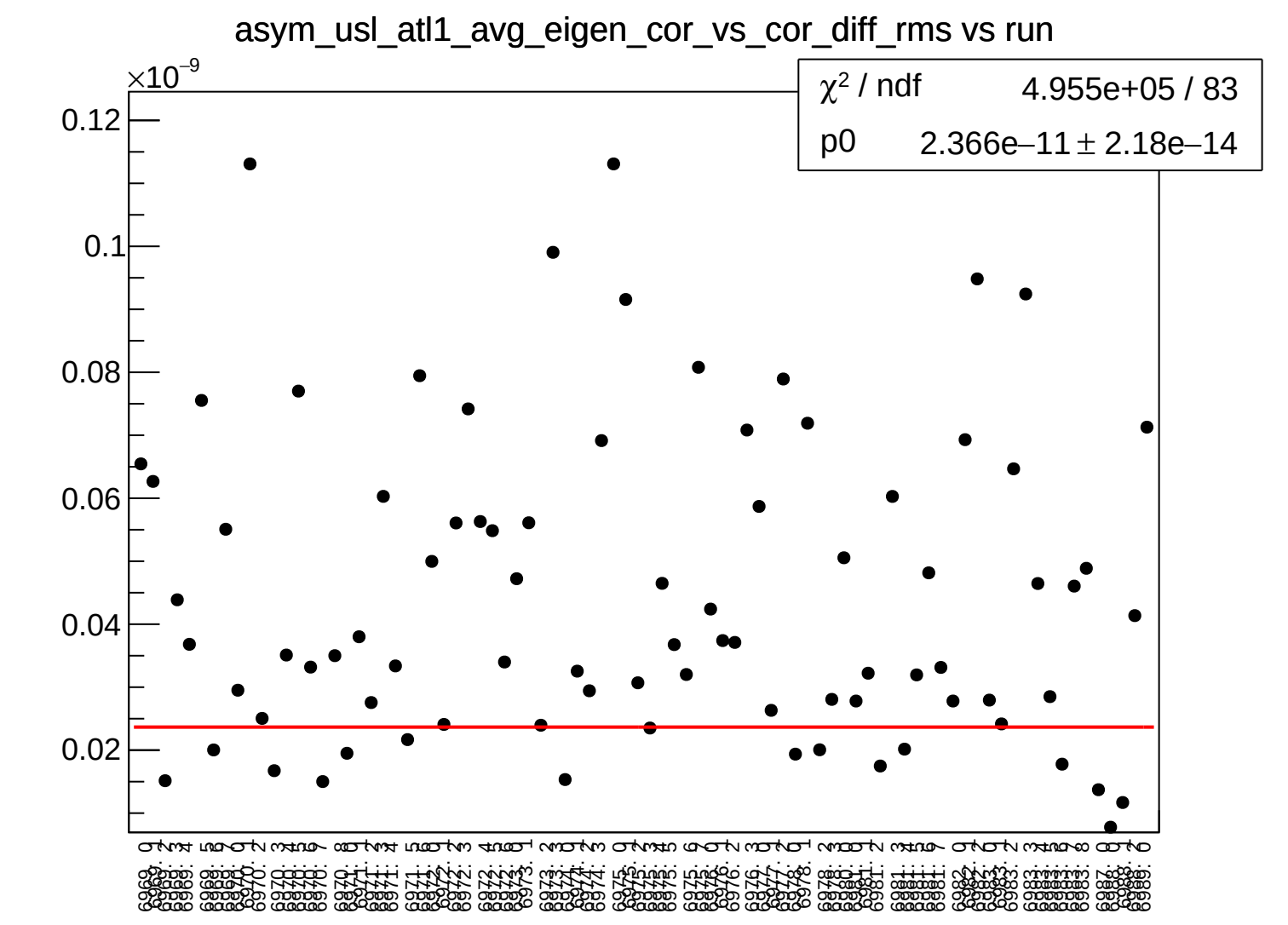

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.615e+05 / 83
p0 50.09 ± 0.04549
400
350
300
250
200
150
100
50

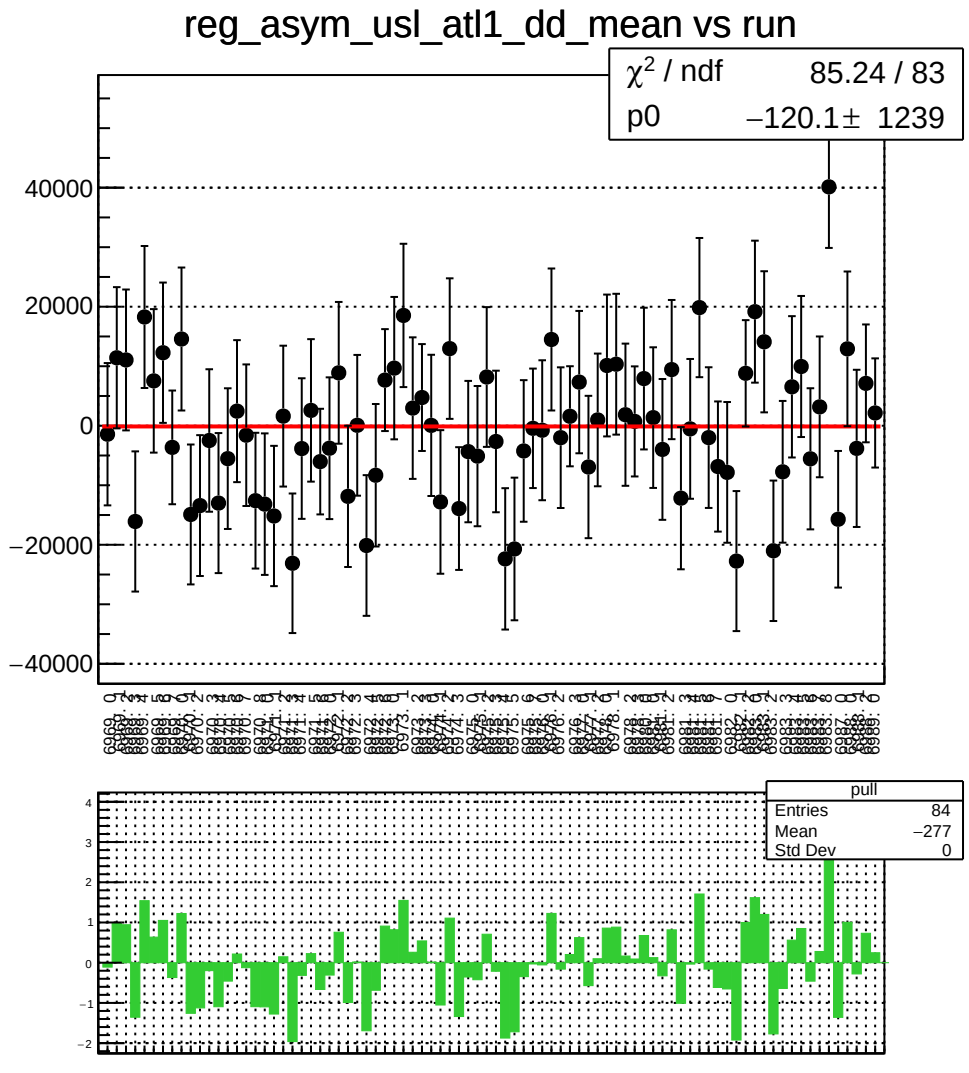

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.61 / 83
p0 −0.02581 ± 0.06434
pull
Entries 84
Mean −144.6
Std Dev 0
pull1D
Entries 84
Mean −0.01039
Std Dev 0.9856

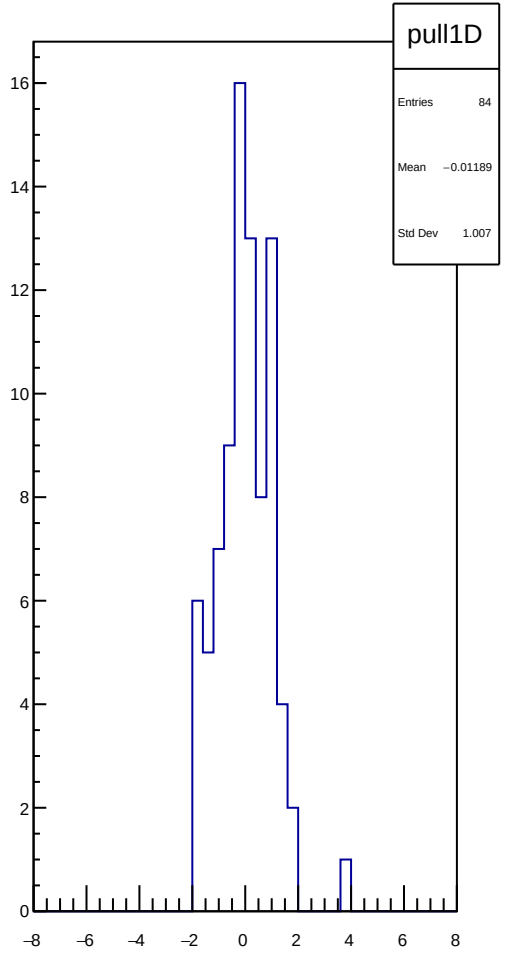

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.615e+05 / 83
p0 50.09 ± 0.04549
400
350
300
250
200
150
100
50

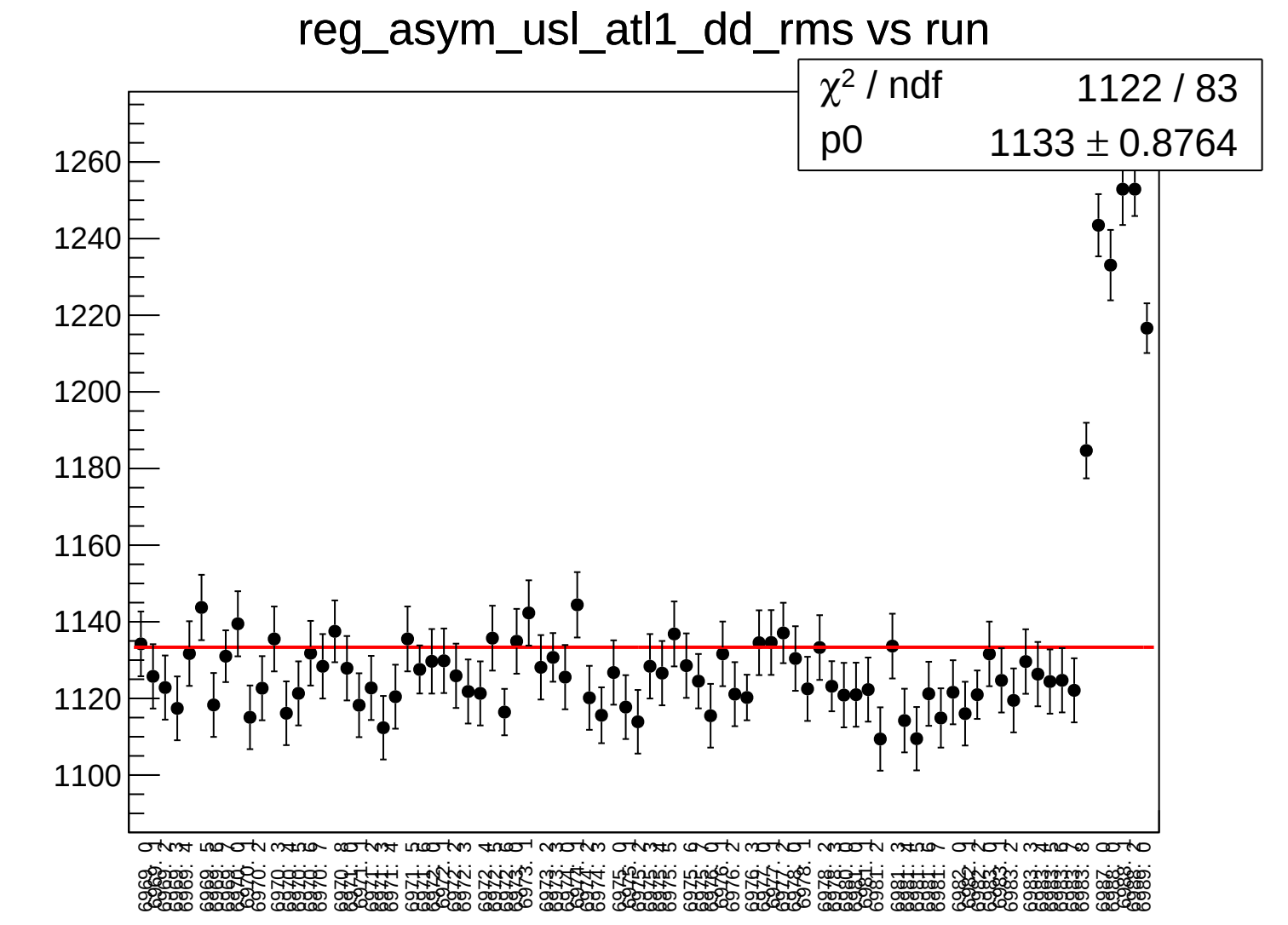

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 120.7 / 83
p0 −3.267e−14 ± 3.083e−14
pull
Entries 84
Mean 89.44
Std Dev 0

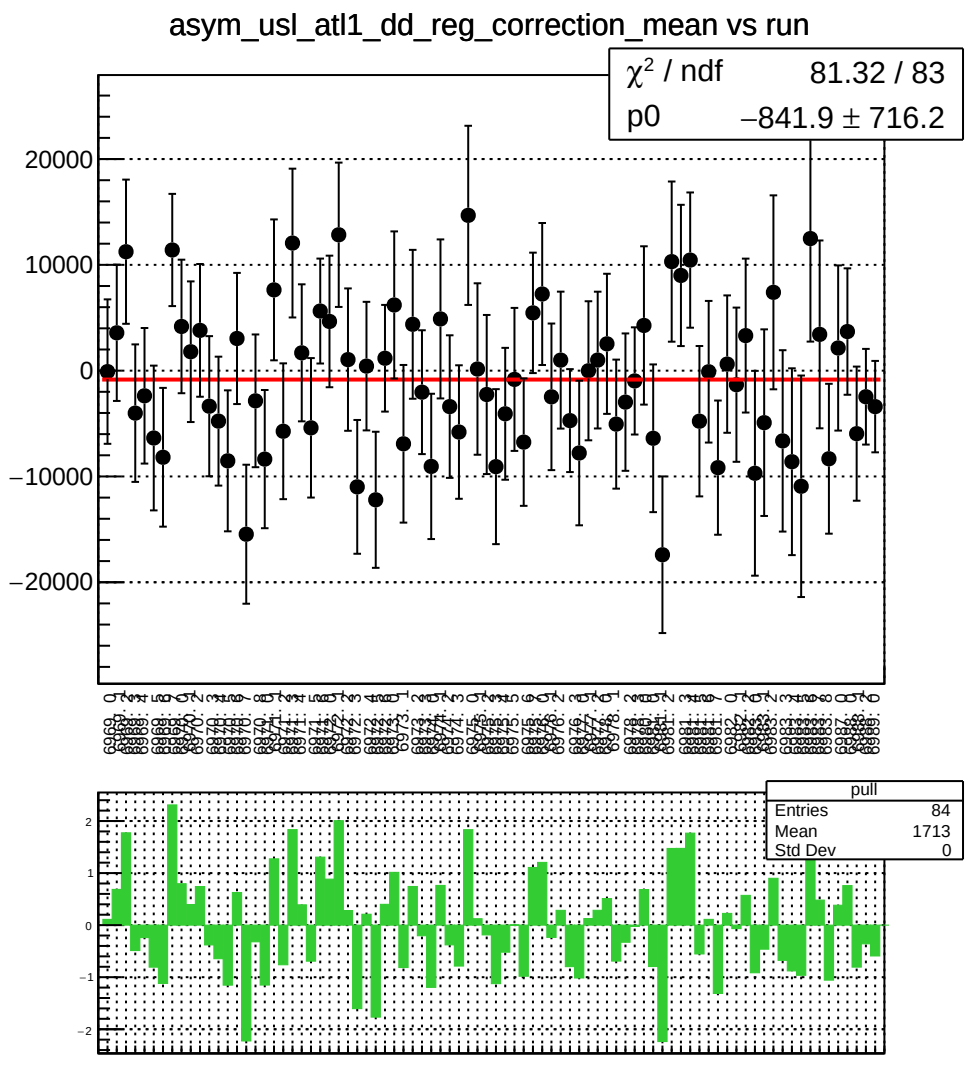

pull1D
Entries 84
Mean 0.09231
Std Dev 1.195

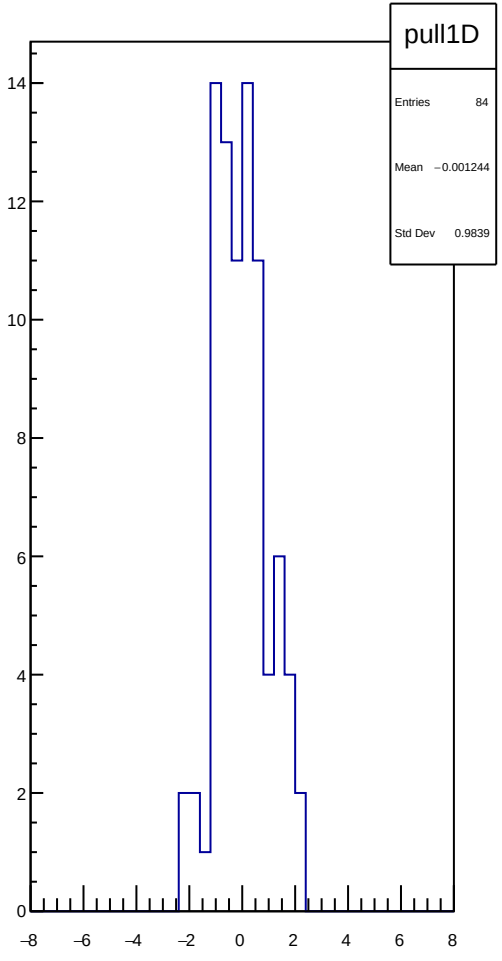

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.955e+05 / 83
p0 2.366e−11 ± 2.18e−14
0.12
0.1
0.08
0.06
0.04
0.02


reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 85.24 / 83
p0 −120.1± 1239
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −277
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.01189
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 1122 / 83
p0 1133 ± 0.8764
1260
1240
1220
1200
1180
1160
1140
1120
1100


asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 81.32 / 83
p0 −841.9 ± 716.2
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1713
Std Dev 0


pull1D
Entries 84
Mean −0.001244
Std Dev 0.9839
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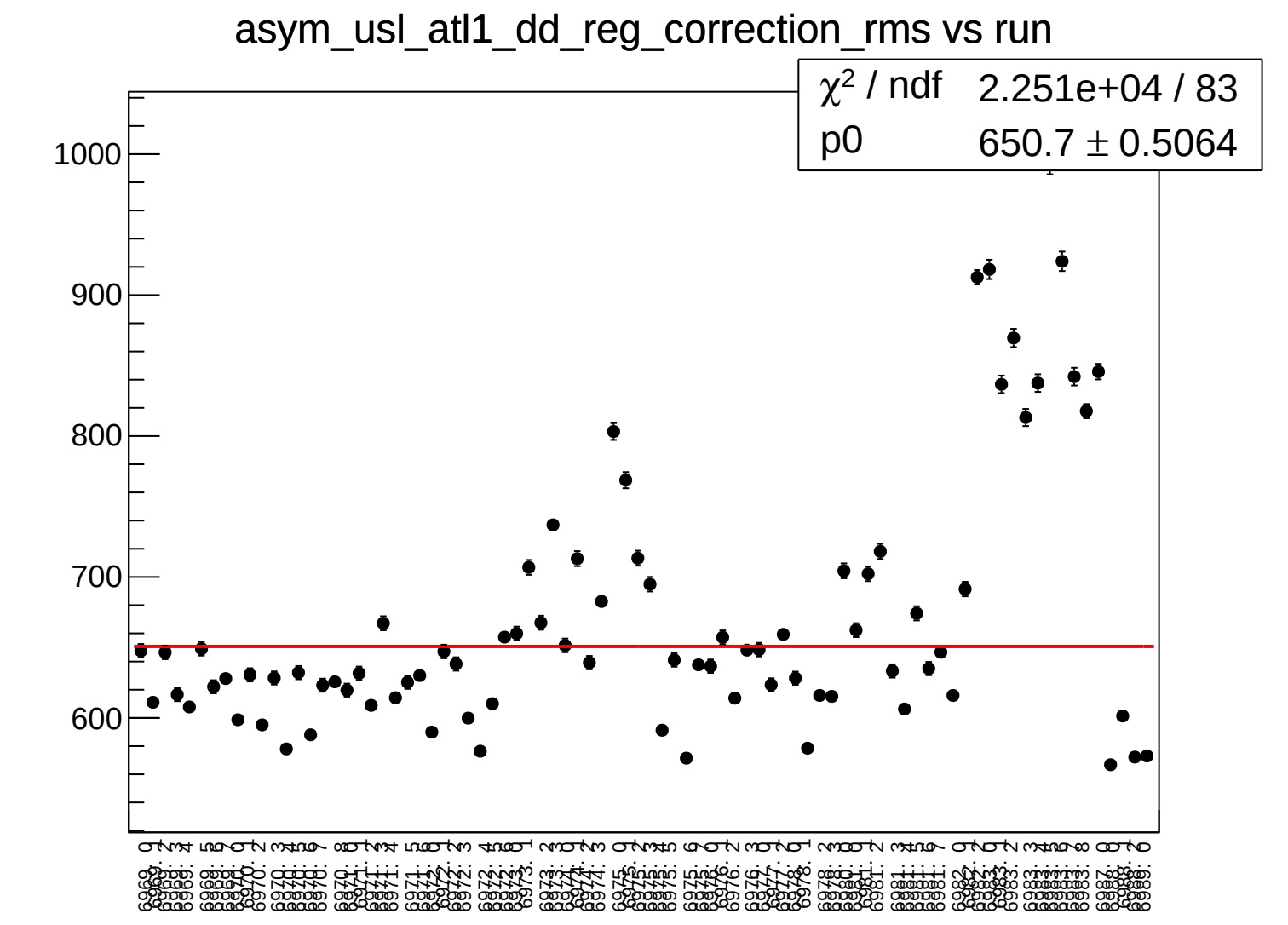
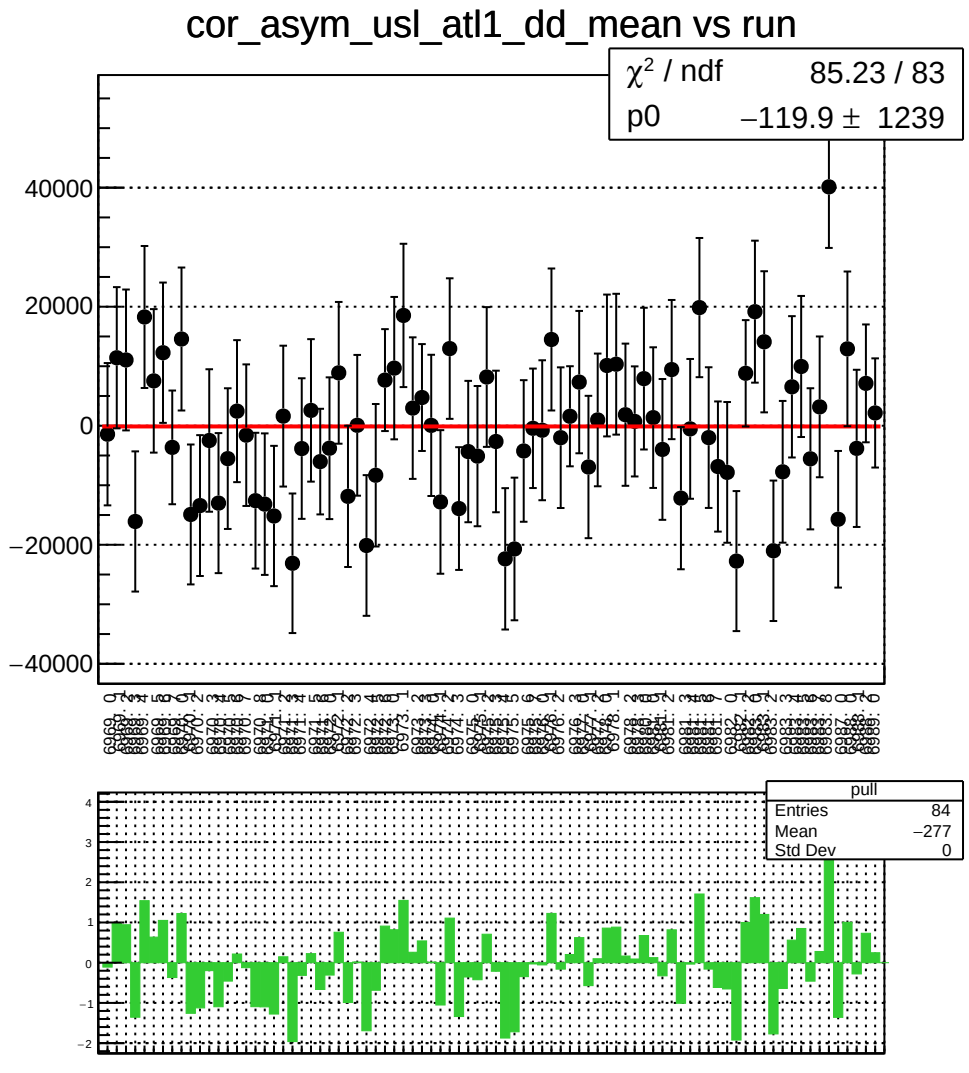
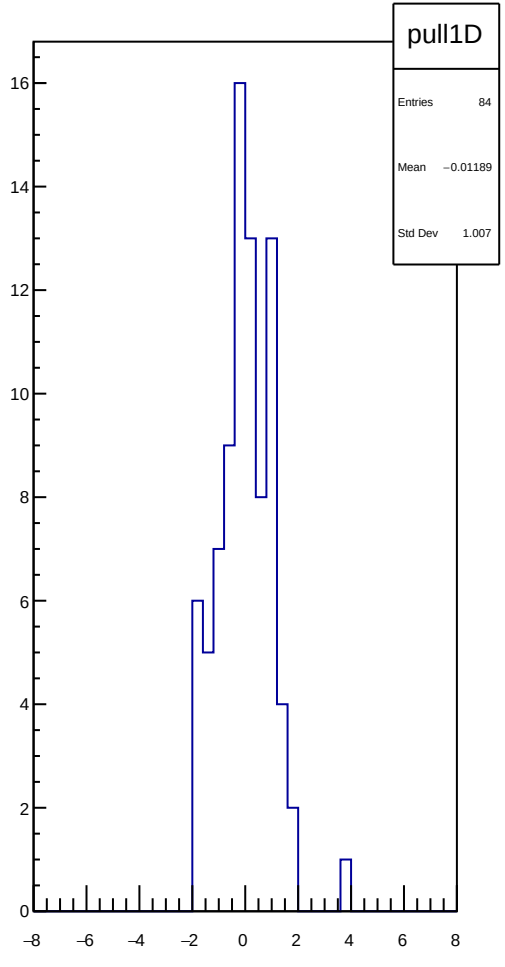
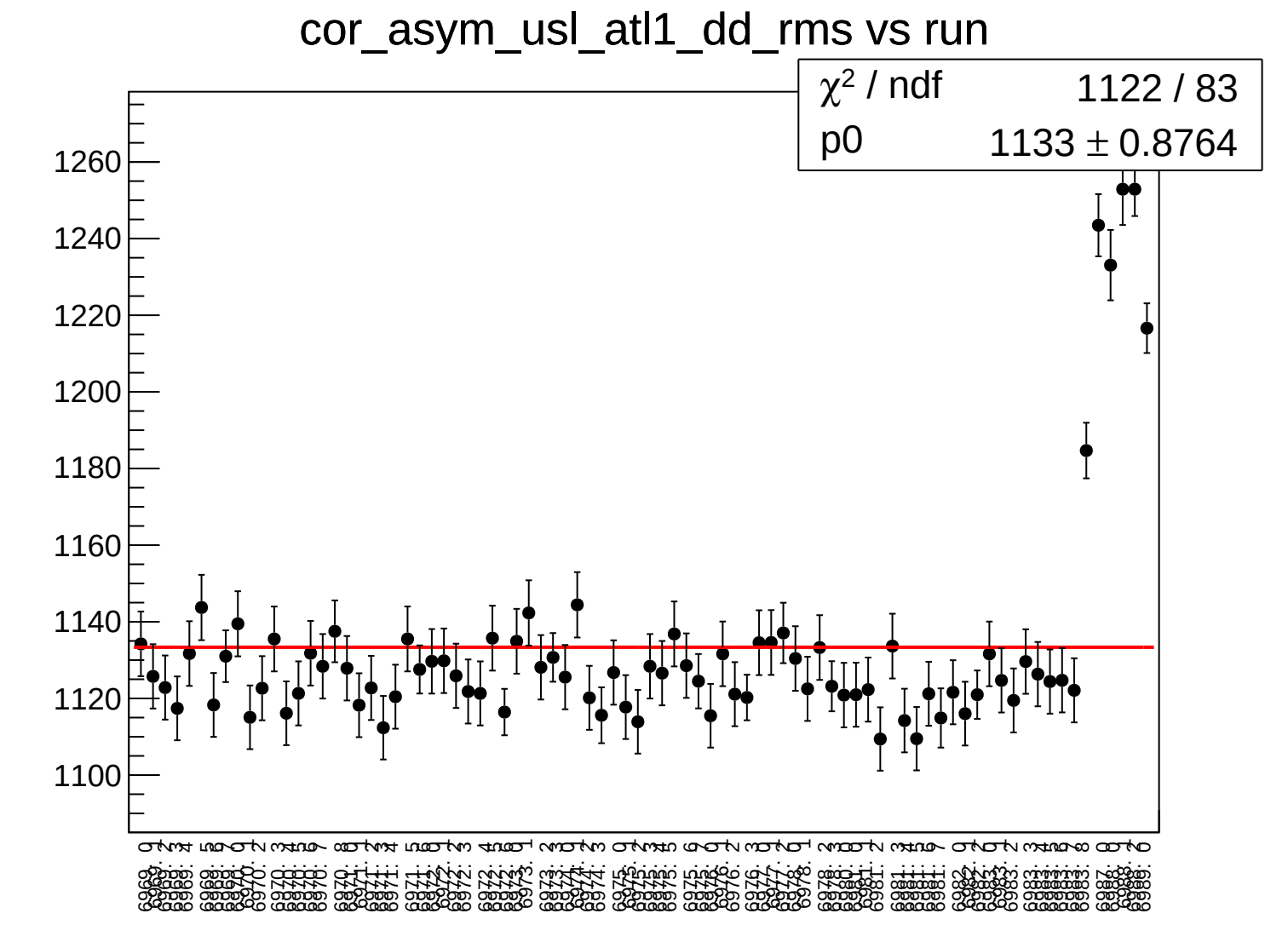
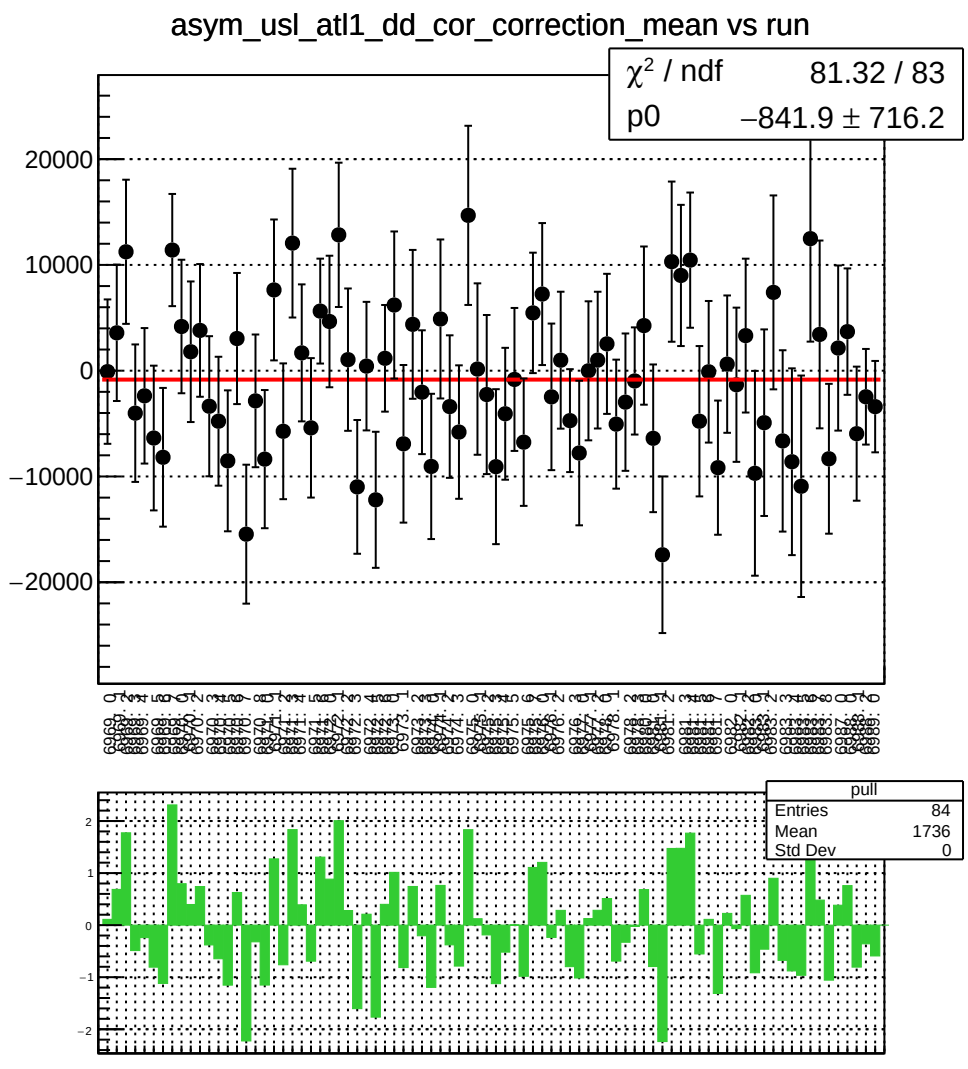
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

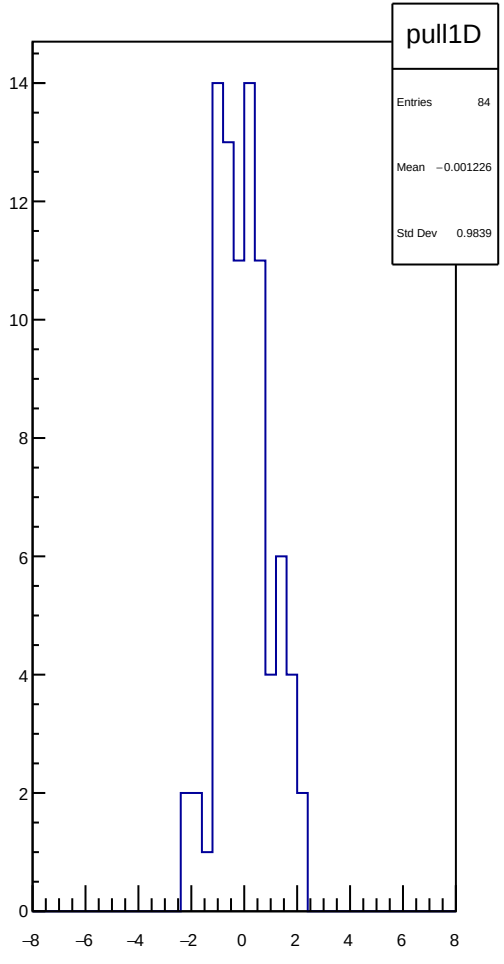

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 2.251e+04 / 83
p0 650.7 ± 0.5064
1000
900
800
700
600


cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 85.23 / 83
p0 −119.9 ± 1239
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −277
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.01189
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 1122 / 83
p0 1133 ± 0.8764
1260
1240
1220
1200
1180
1160
1140
1120
1100


asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 81.32 / 83
p0 −841.9 ± 716.2
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1736
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.001226
Std Dev 0.9839
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12
10
8
6
4
2
0
−8
−6
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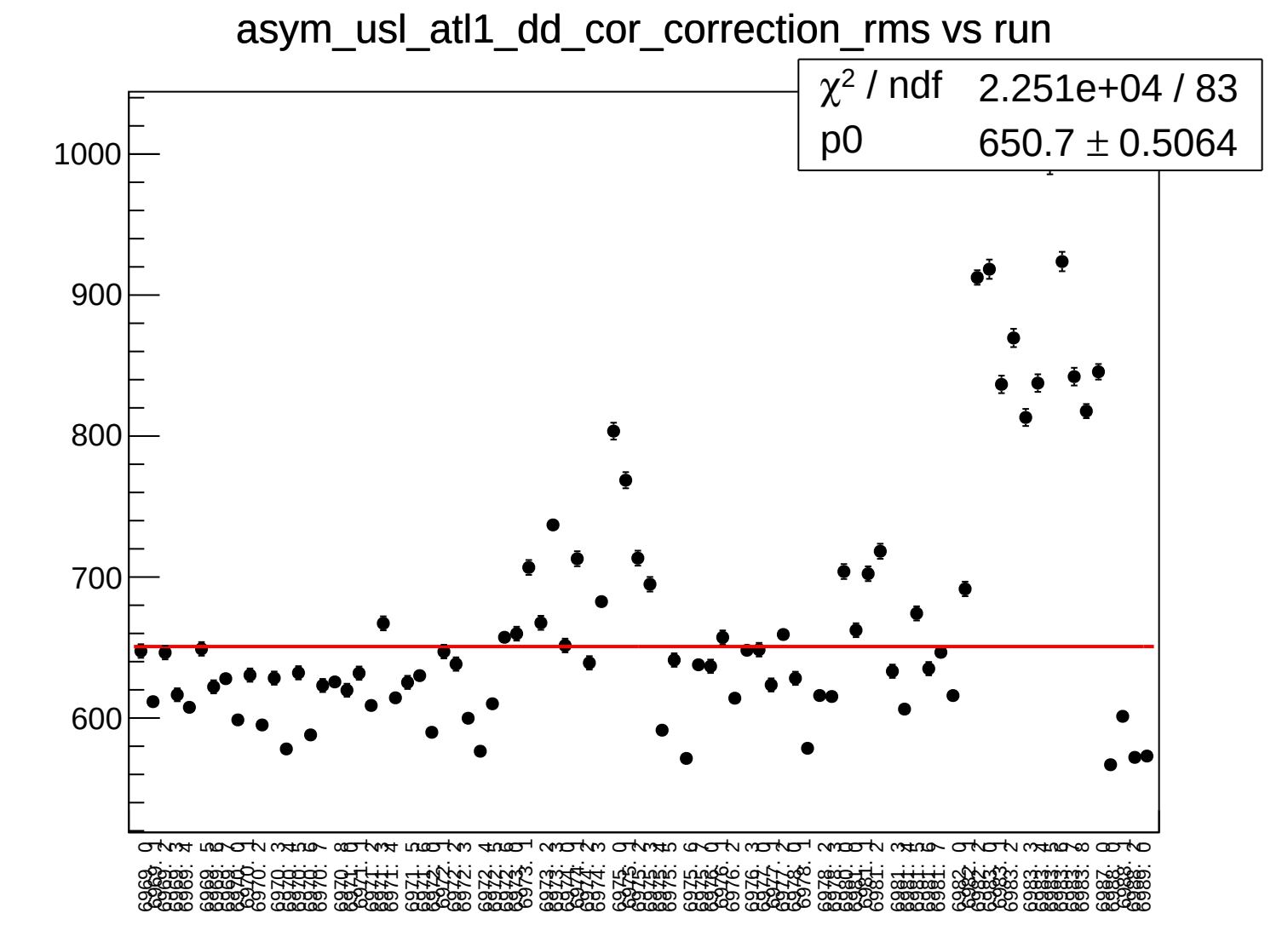
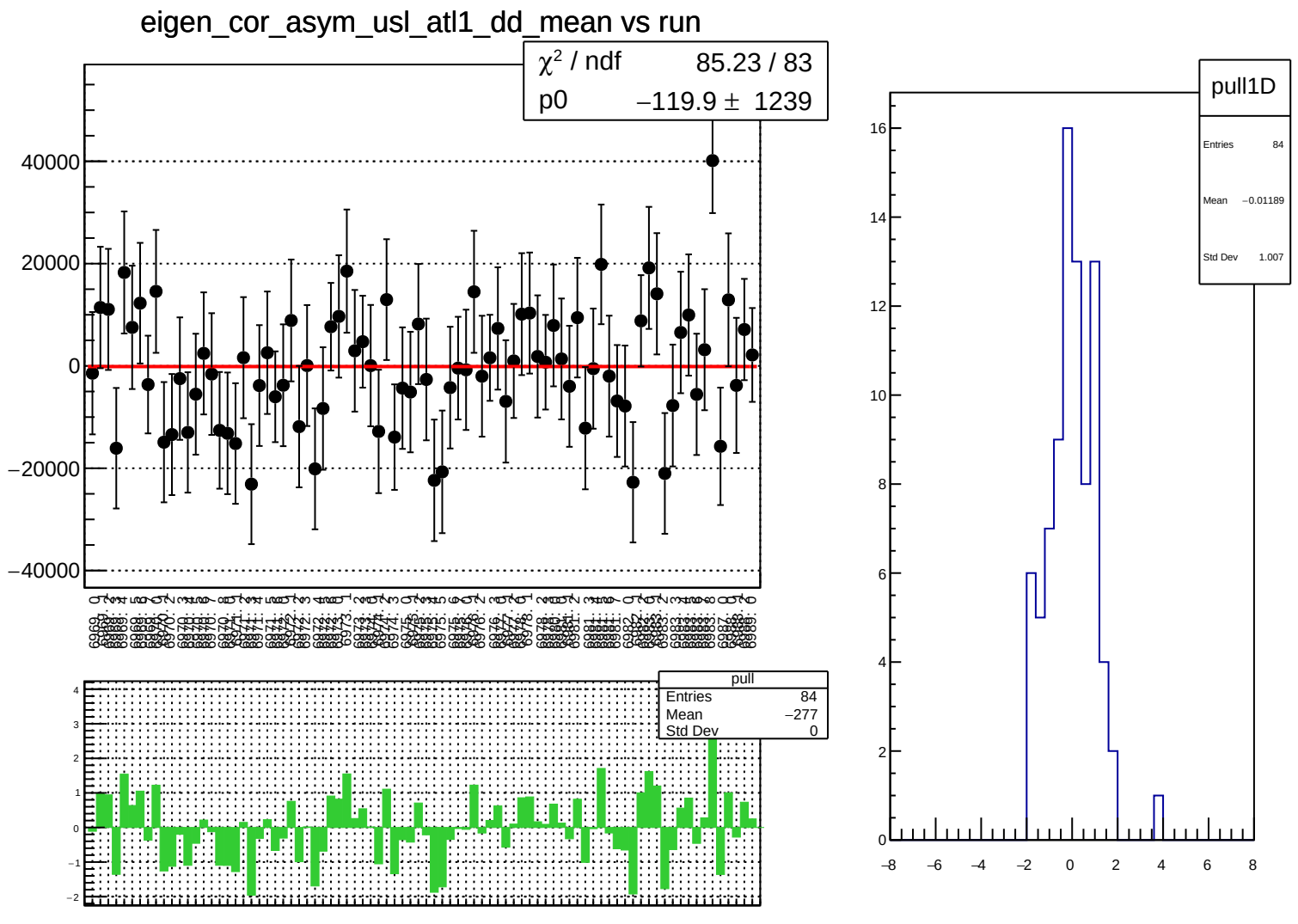
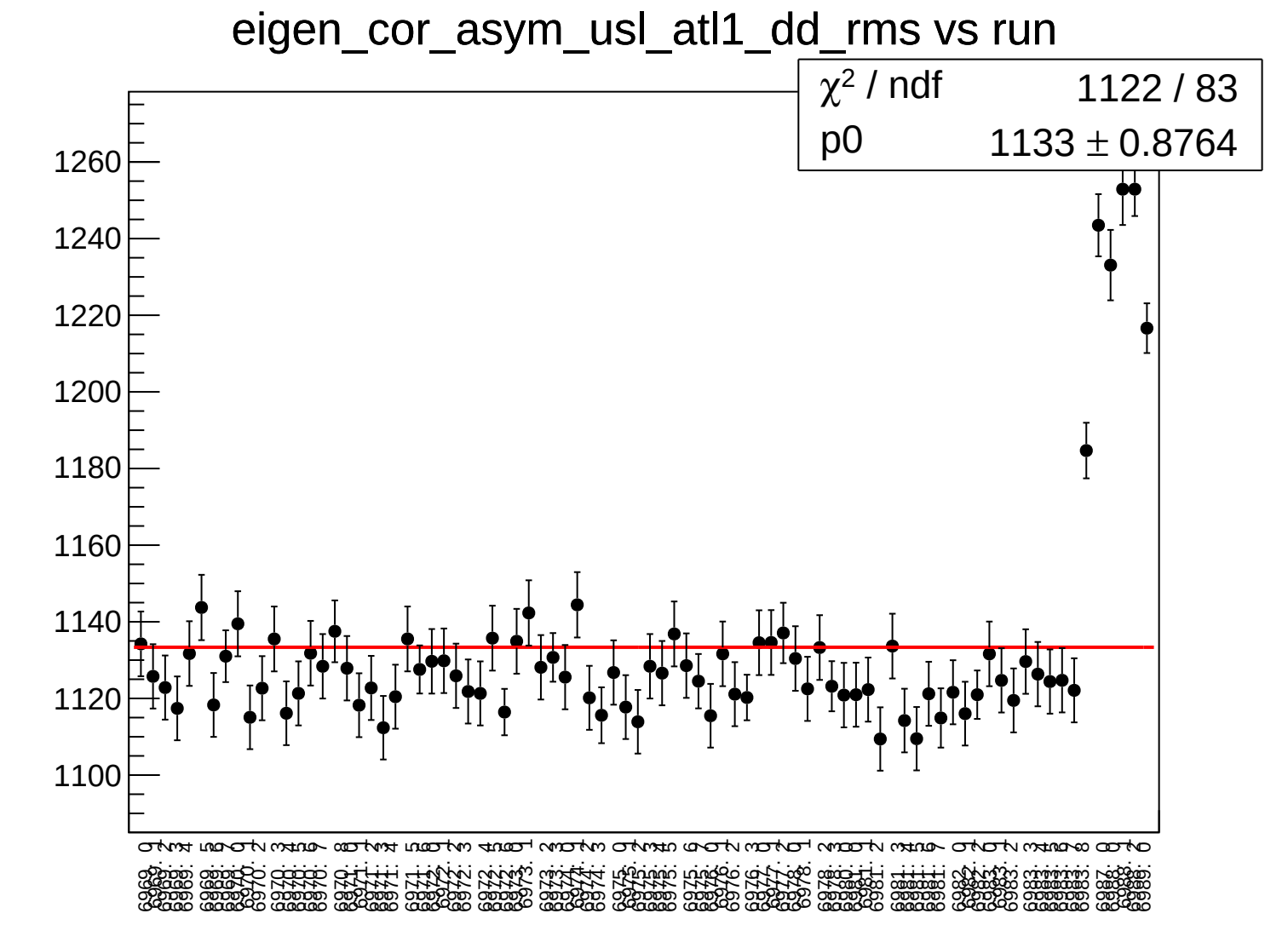
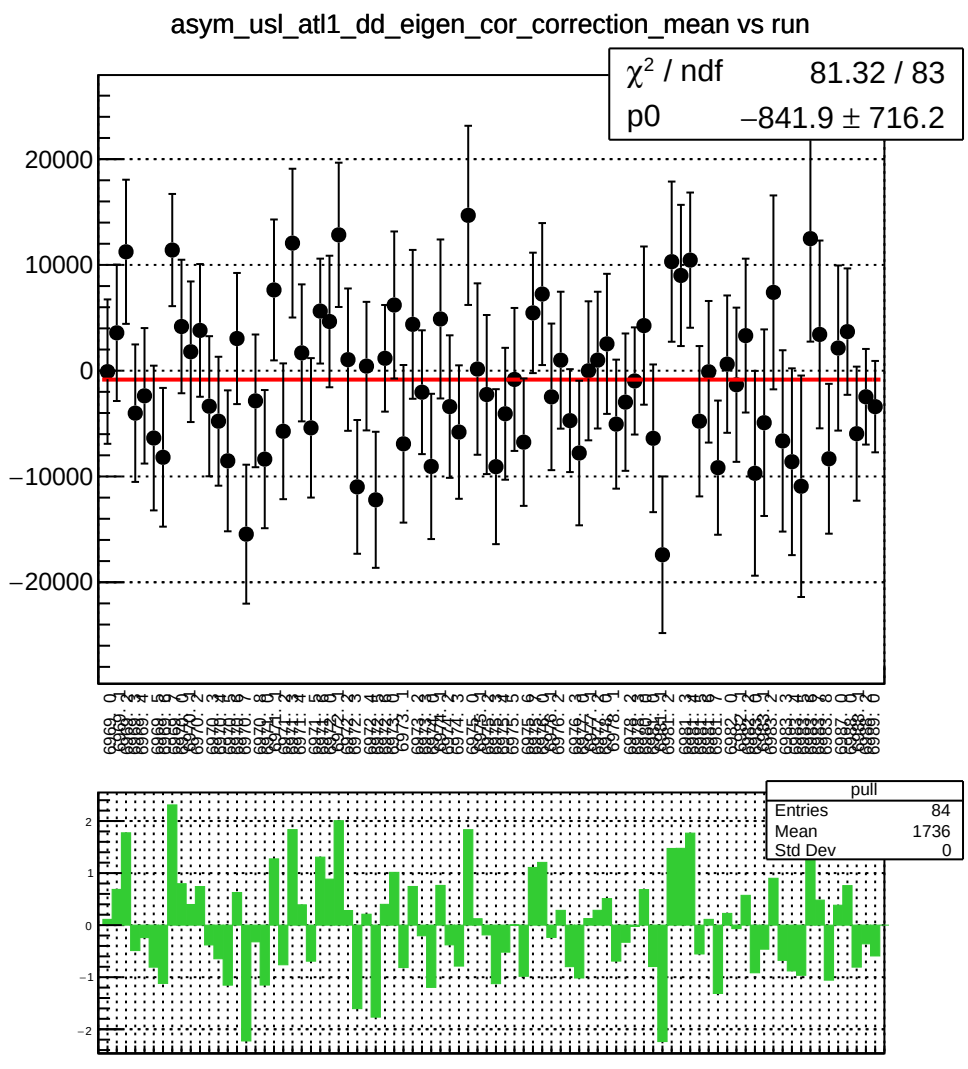
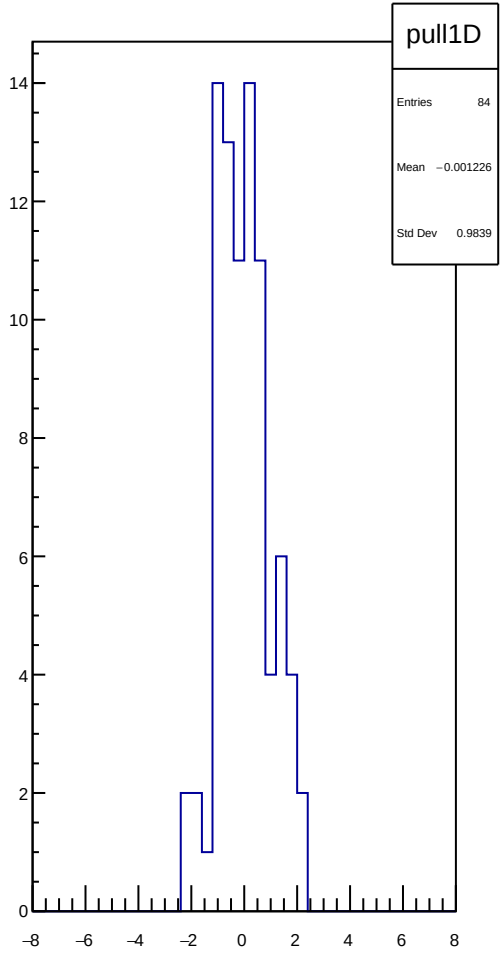
2
4
6
8

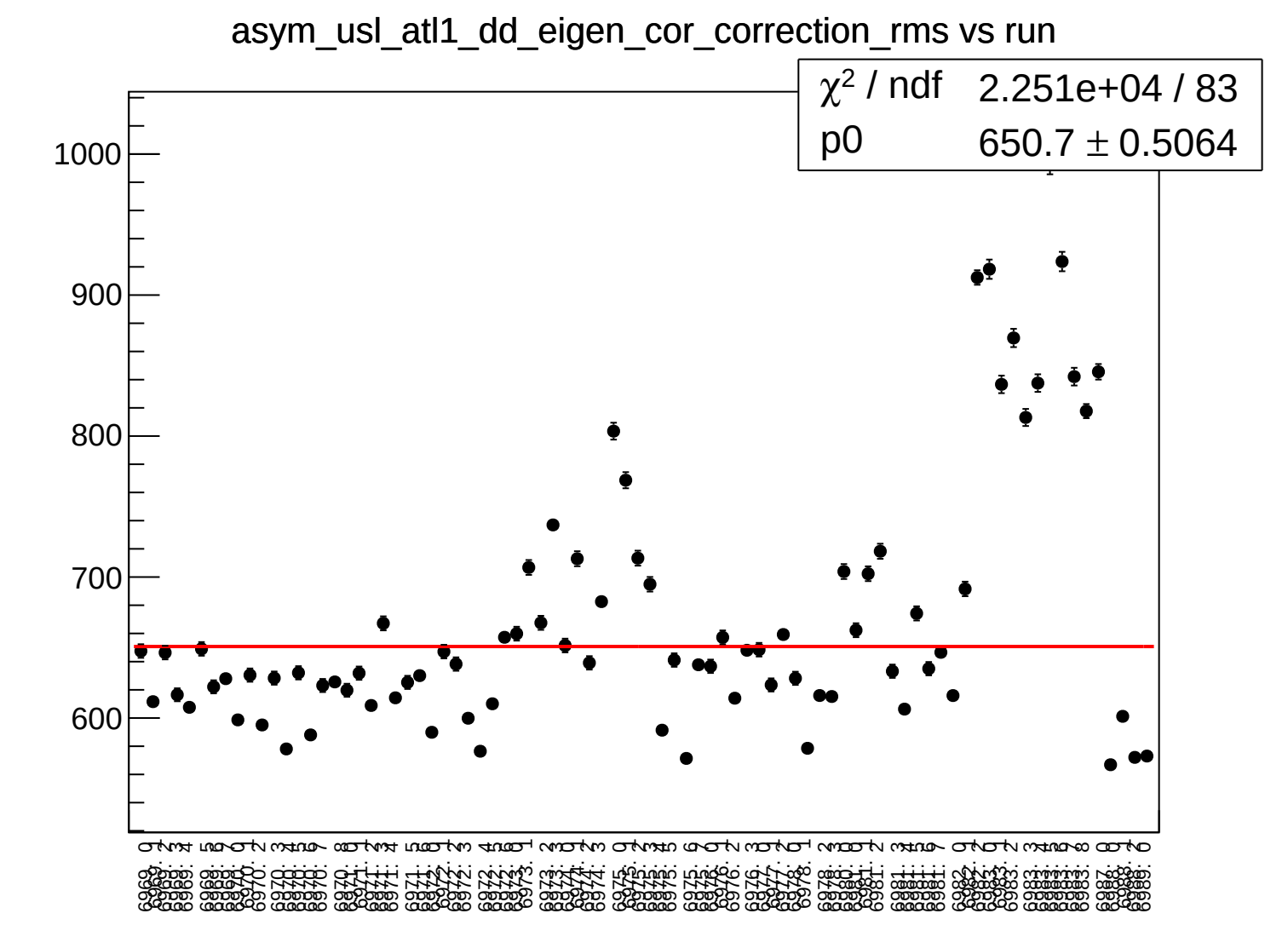

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 2.251e+04 / 83
p0 650.7 ± 0.5064
1000
900
800
700
600

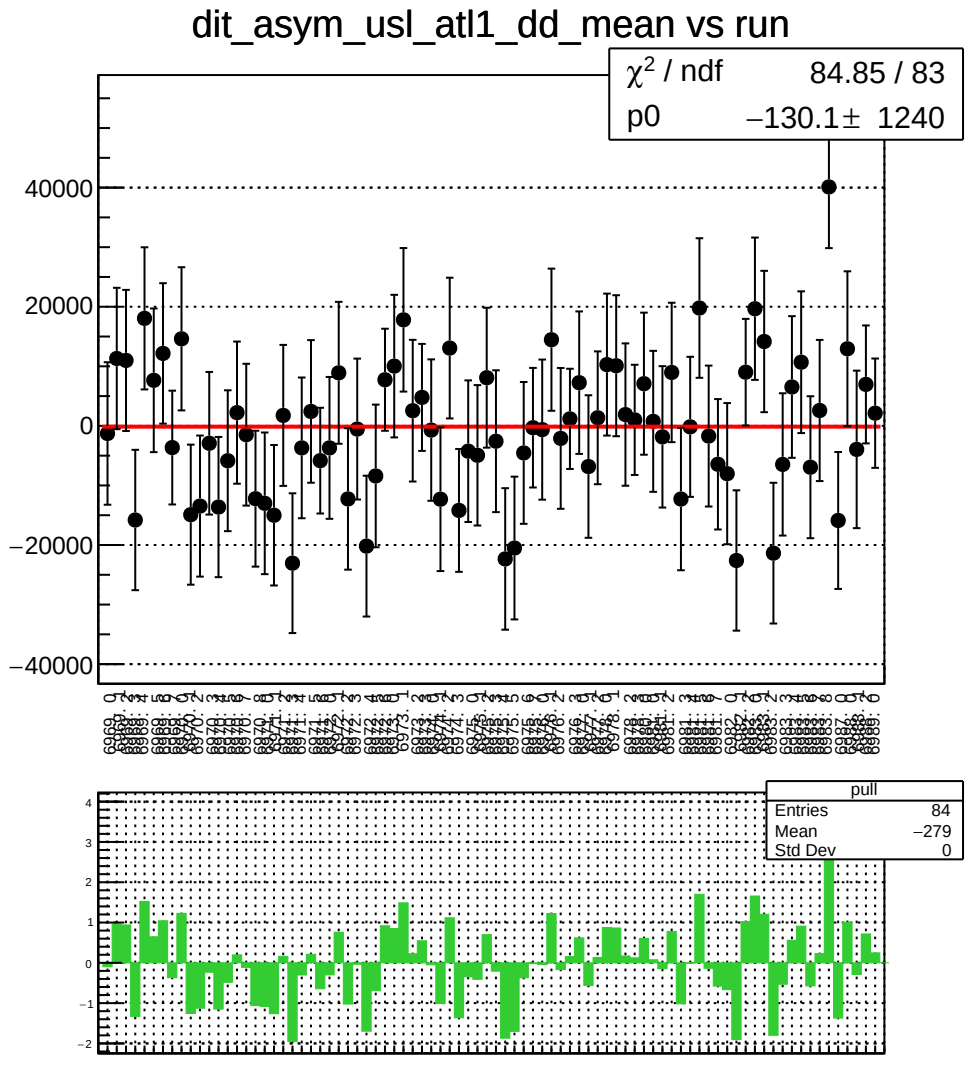

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 85.23 / 83
p0 −119.9 ± 1239
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −277
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01189
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

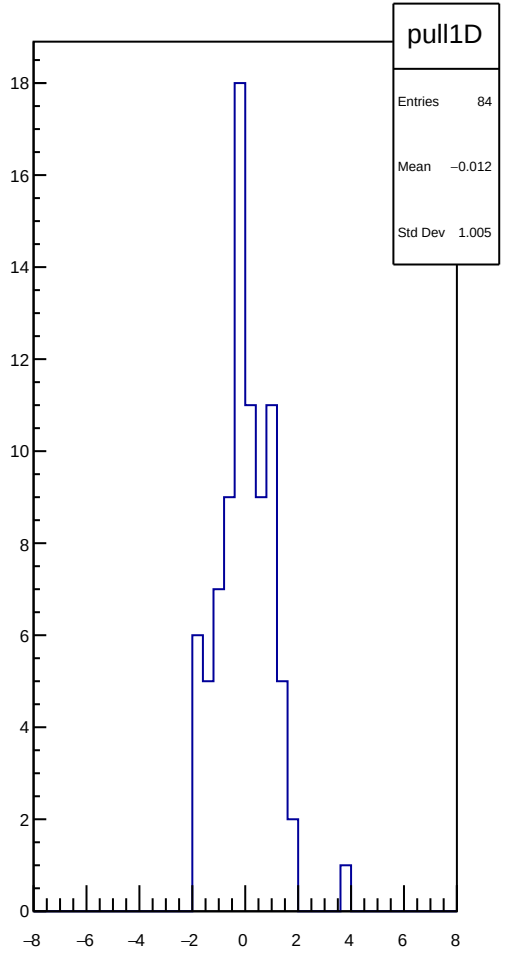

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 1122 / 83
p0 1133 ± 0.8764
1260
1240
1220
1200
1180
1160
1140
1120
1100

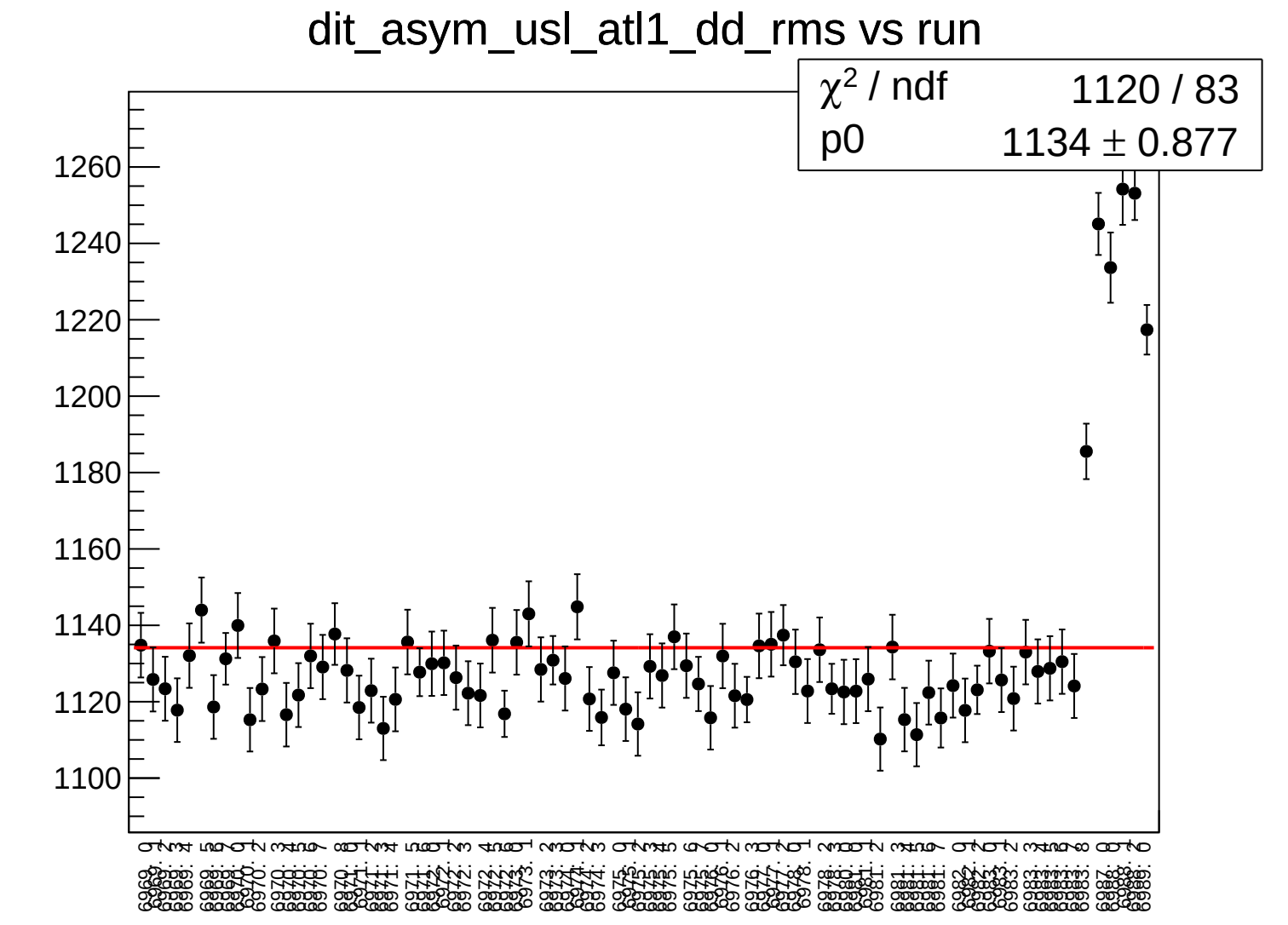

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.32 / 83
p0 −841.9 ± 716.2
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1736
Std Dev 0
2
1
0
−1
−2

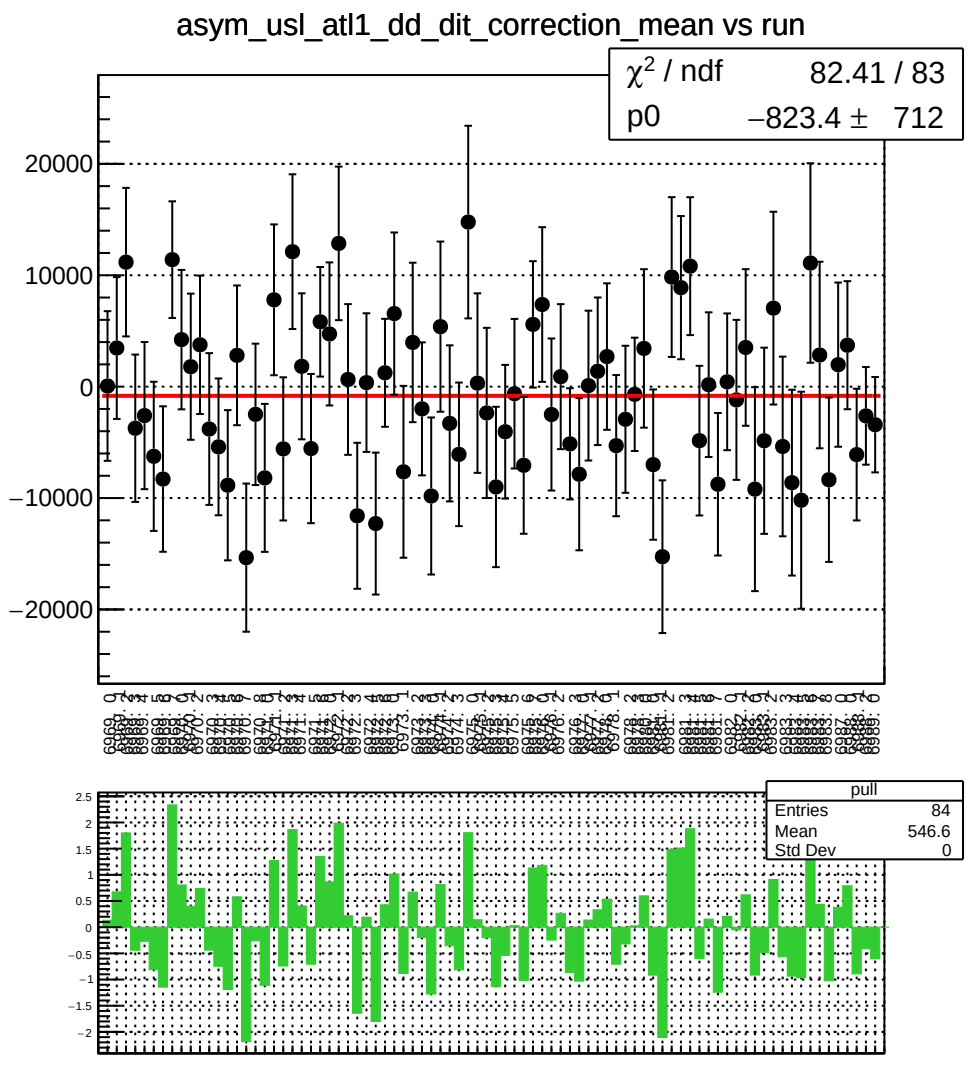

pull1D
Entries 84
Mean −0.001226
Std Dev 0.9839
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

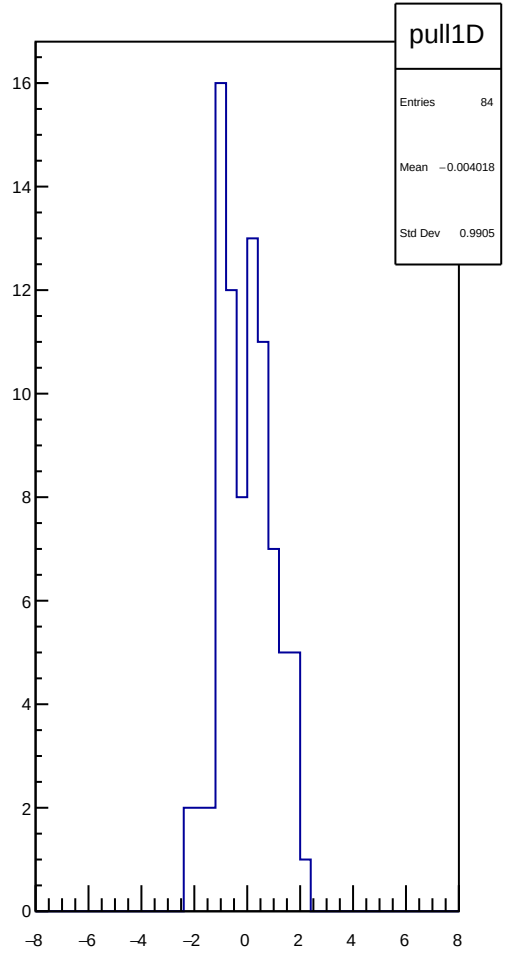

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.251e+04 / 83
p0 650.7 ± 0.5064
1000
900
800
700
600

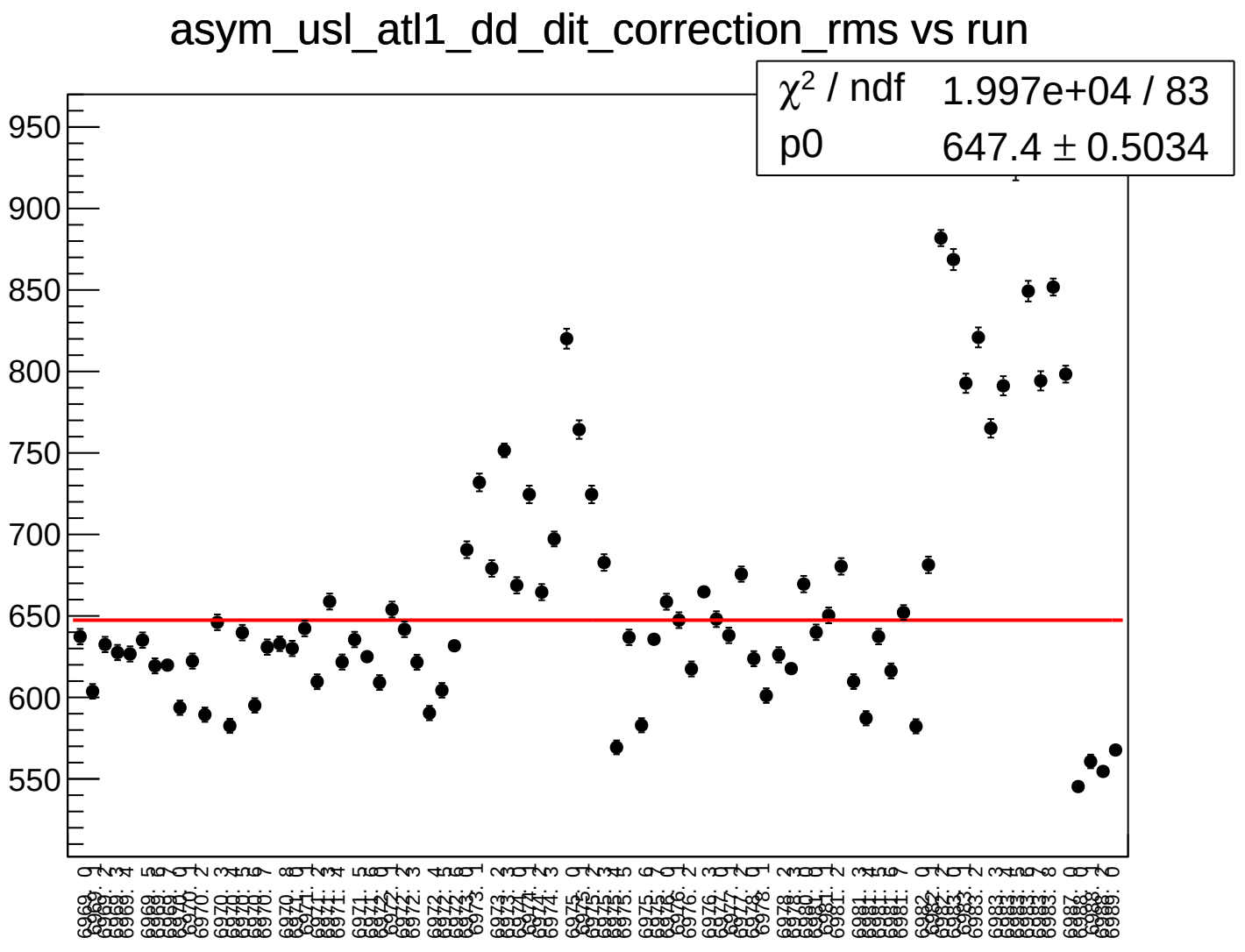

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 84.85 / 83
p0 −130.1± 1240
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −279
Std Dev 0
4
3
2
1
0
−1
−2

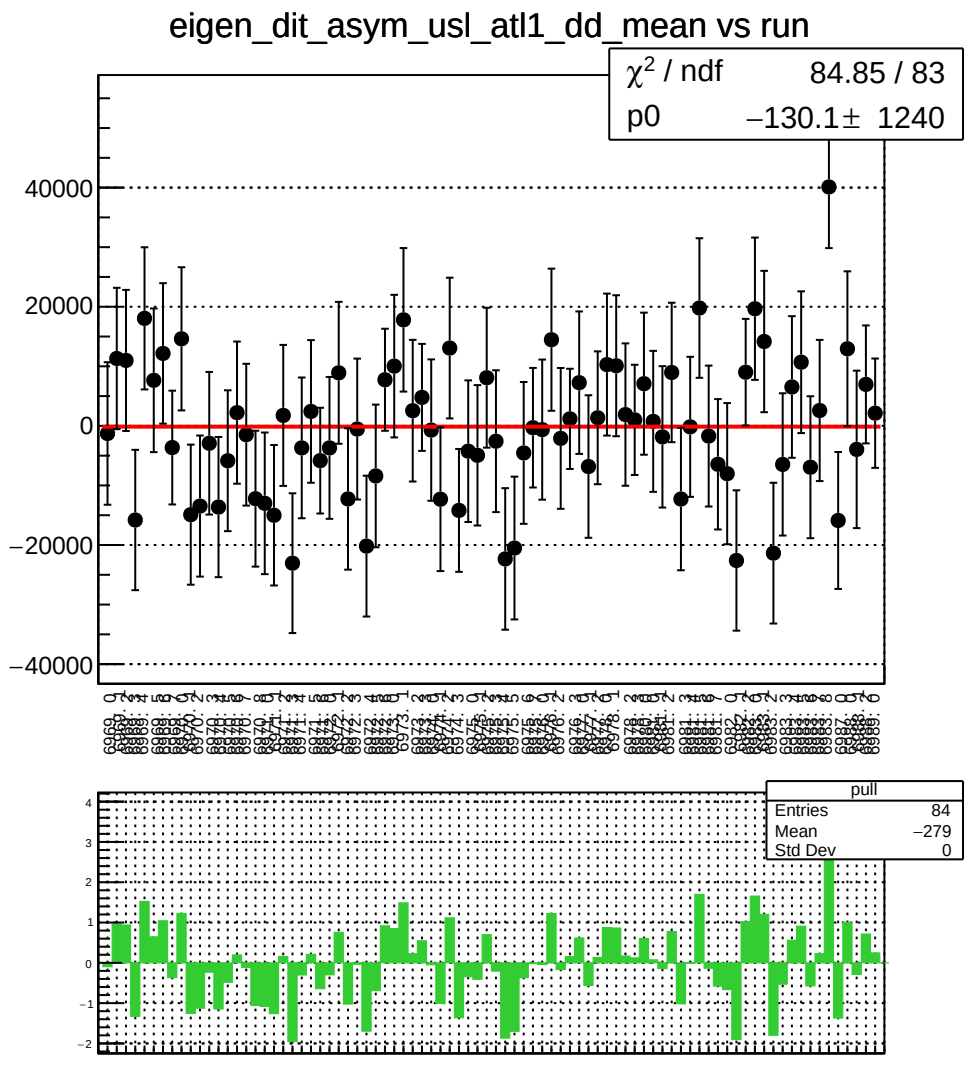

pull1D
Entries 84
Mean −0.012
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

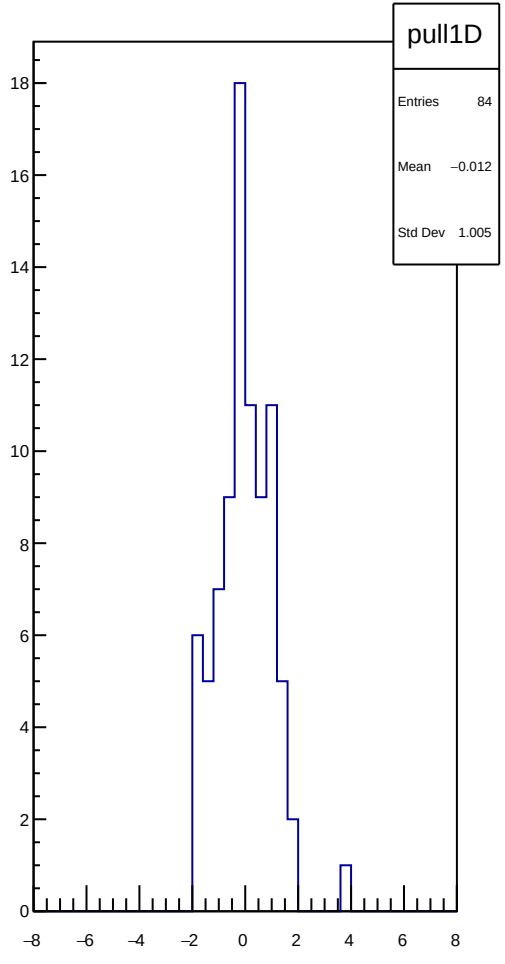

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 1120 / 83
p0 1134 ± 0.877
1260
1240
1220
1200
1180
1160
1140
1120
1100


asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 82.41 / 83
p0 −823.4 ± 712
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 546.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 84
Mean −0.004018
Std Dev 0.9905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.997e+04 / 83
p0 647.4 ± 0.5034
950
900
850
800
750
700
650
600
550


eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 84.85 / 83
p0 −130.1± 1240
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −279
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.012
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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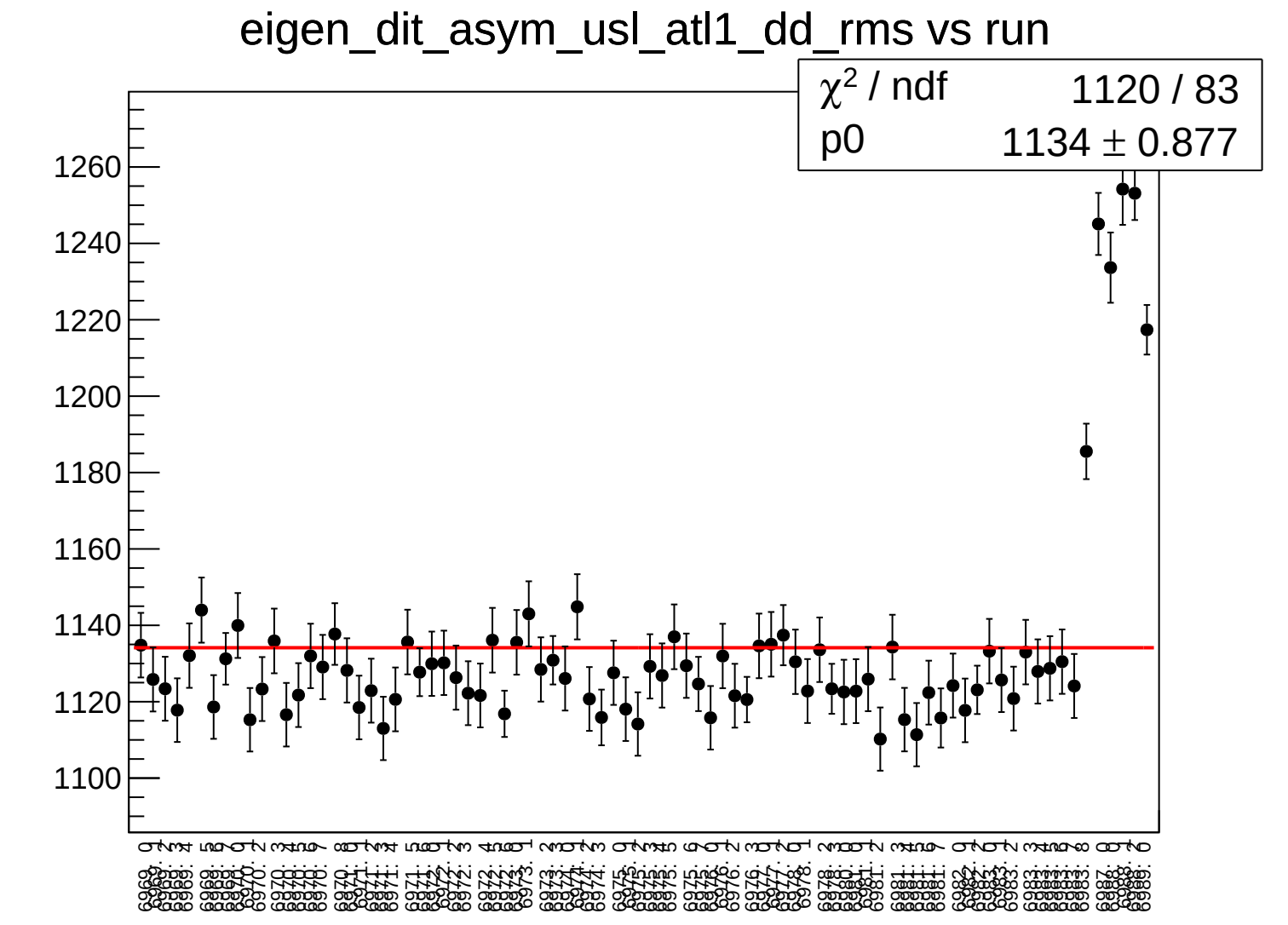
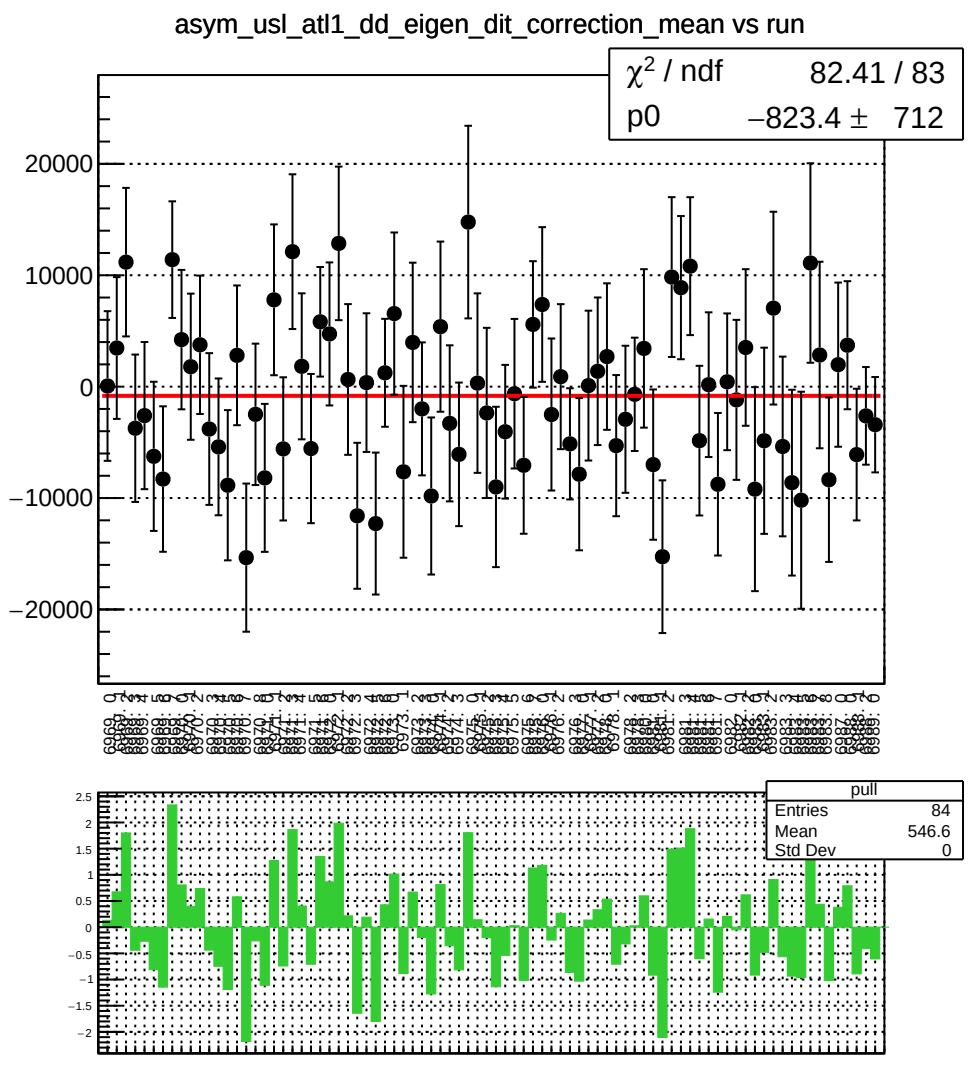
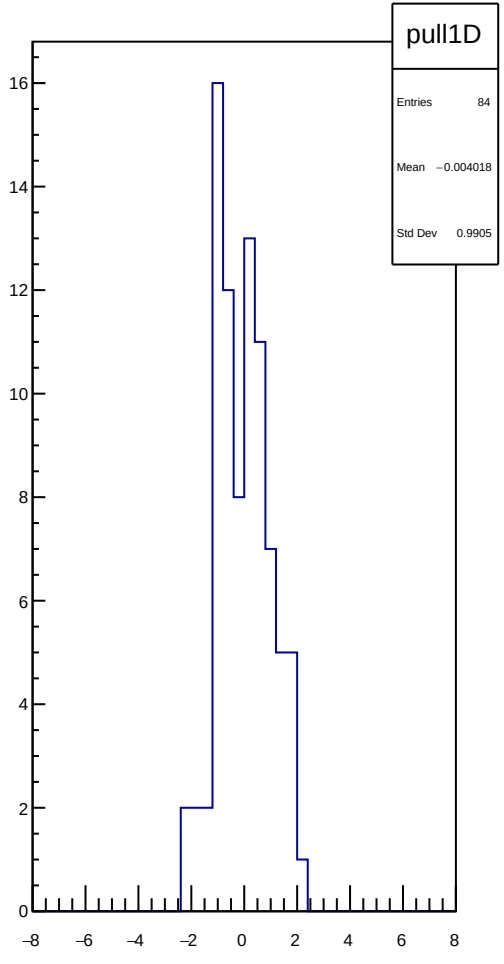
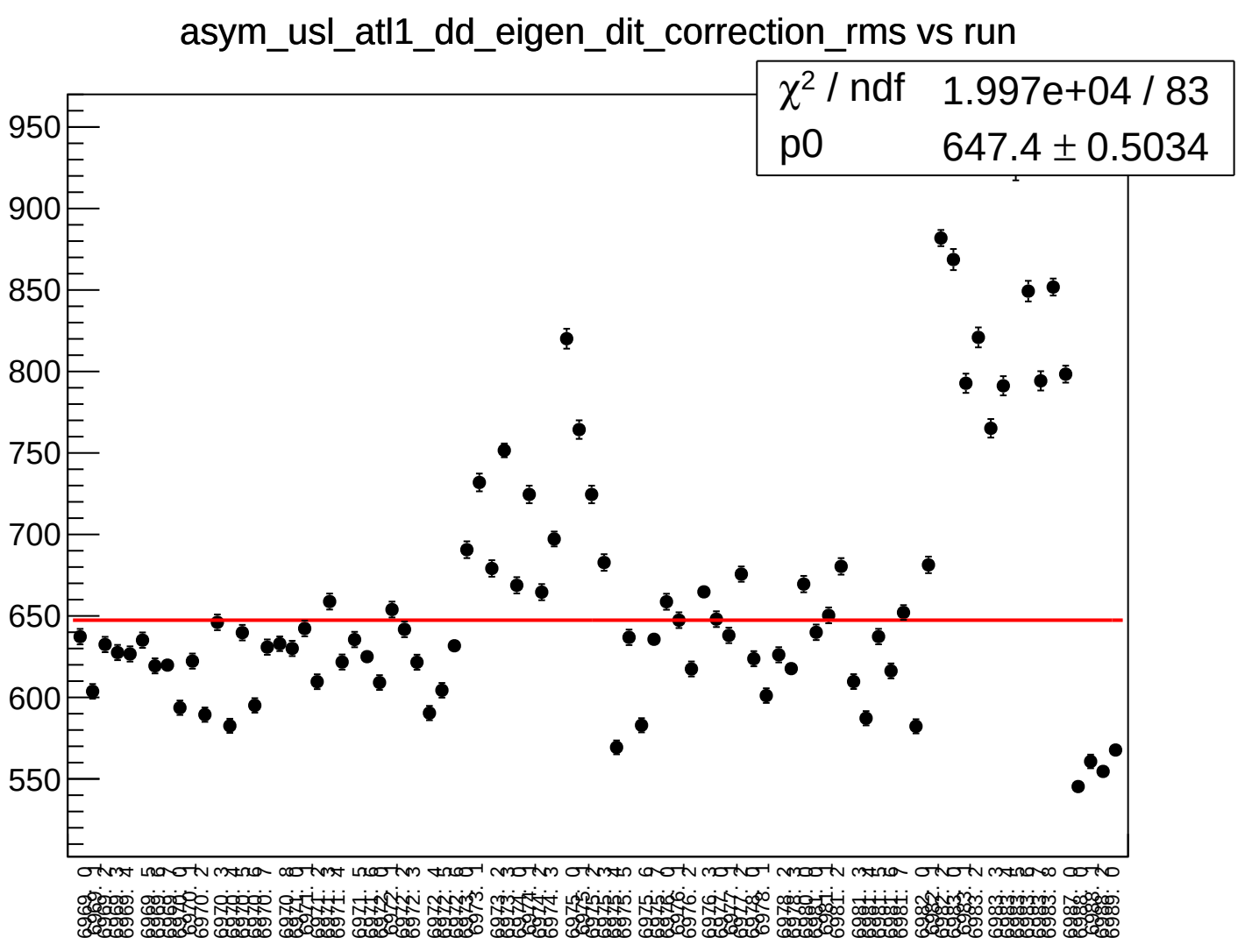
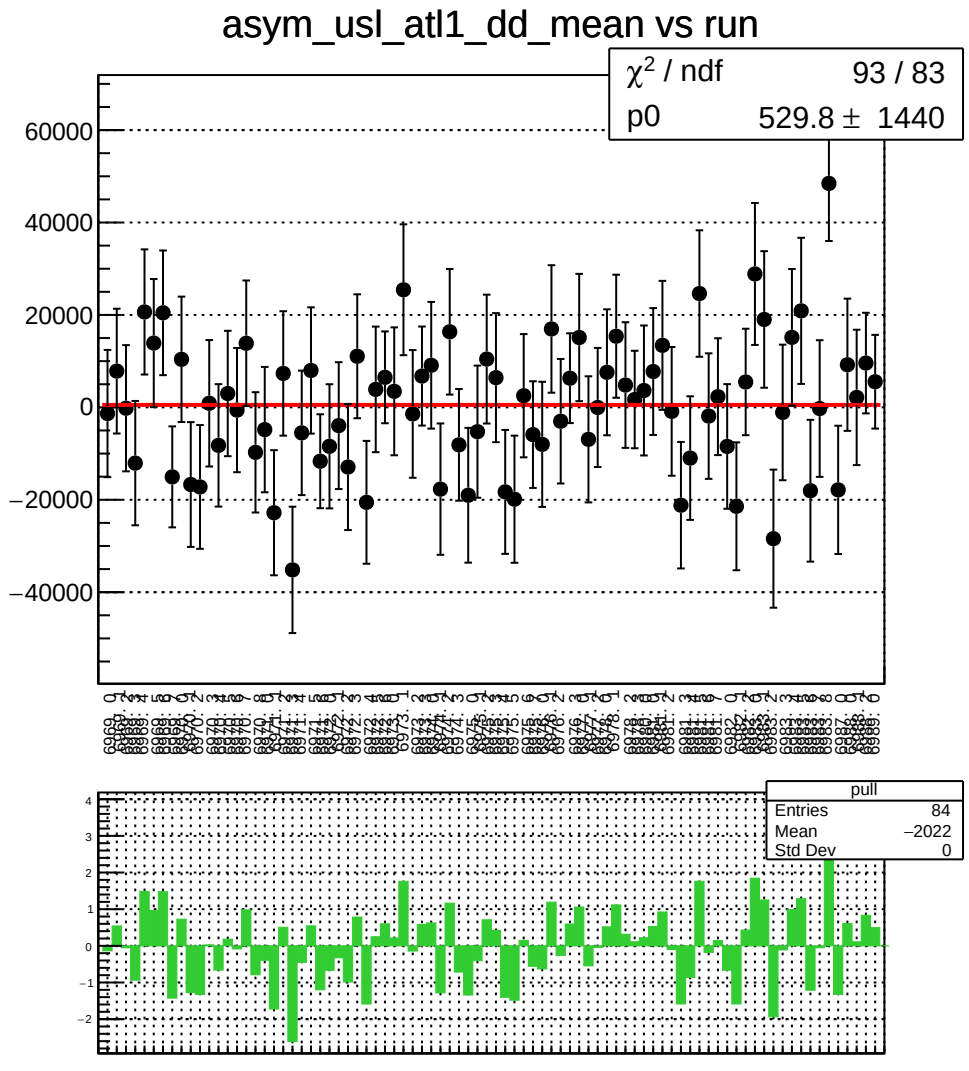
0
2
4
6
8

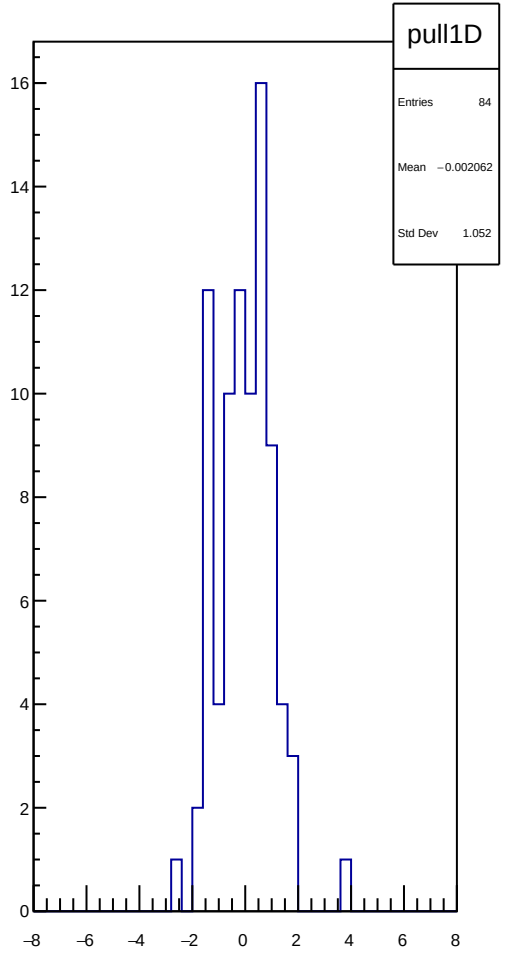

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 1120 / 83
p0 1134 ± 0.877
1260
1240
1220
1200
1180
1160
1140
1120
1100

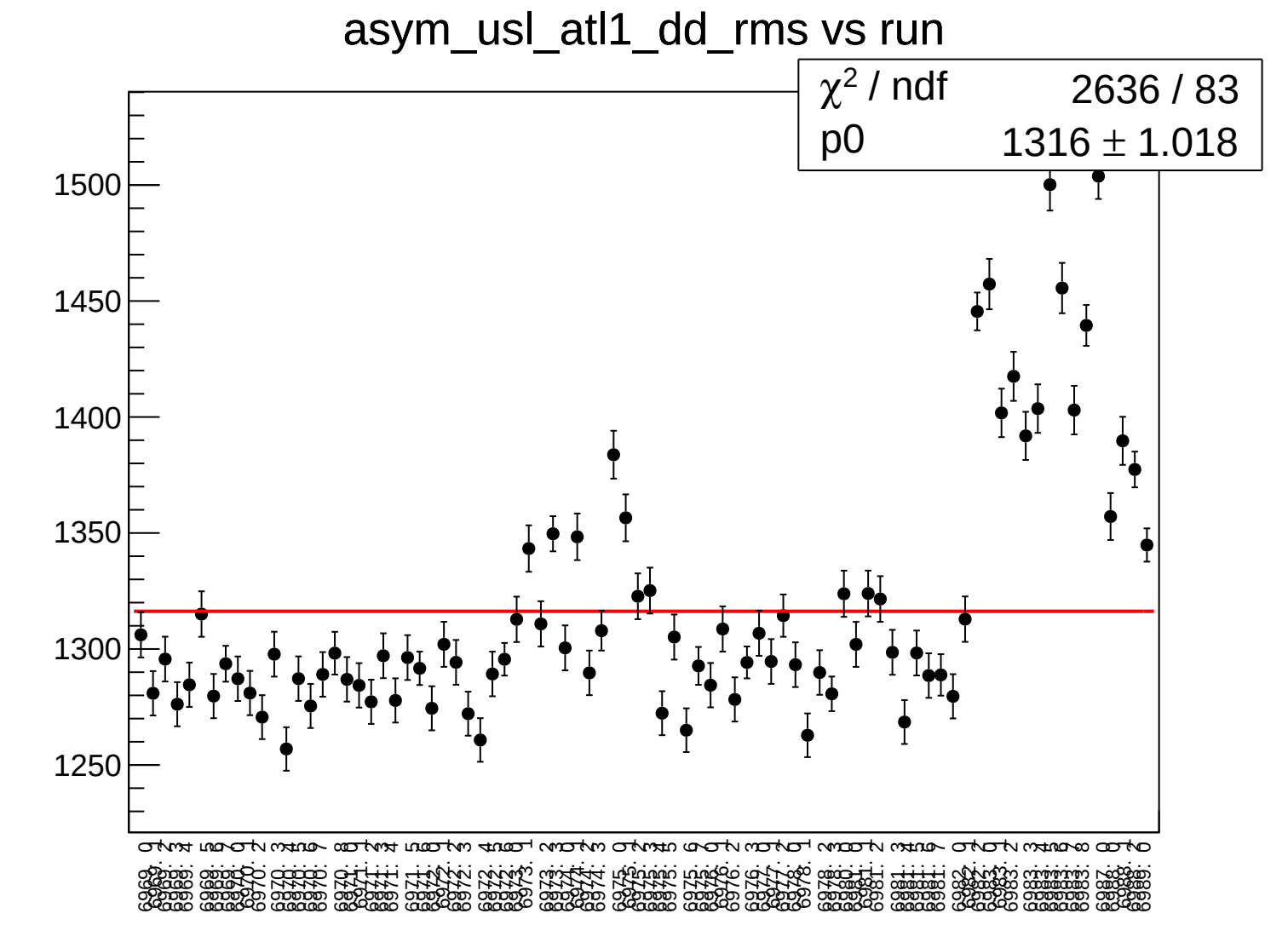

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.41 / 83
p0 −823.4 ± 712
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 546.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

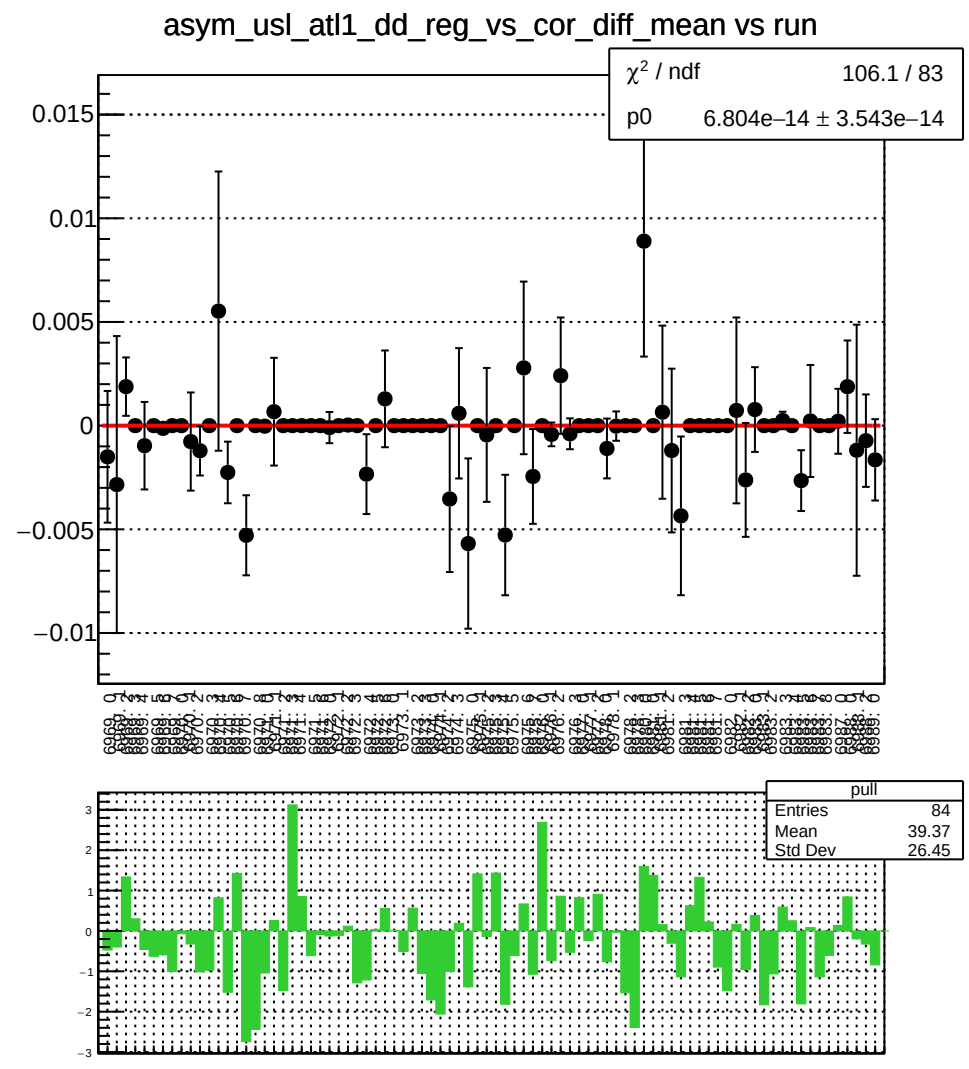

pull1D
Entries 84
Mean −0.004018
Std Dev 0.9905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

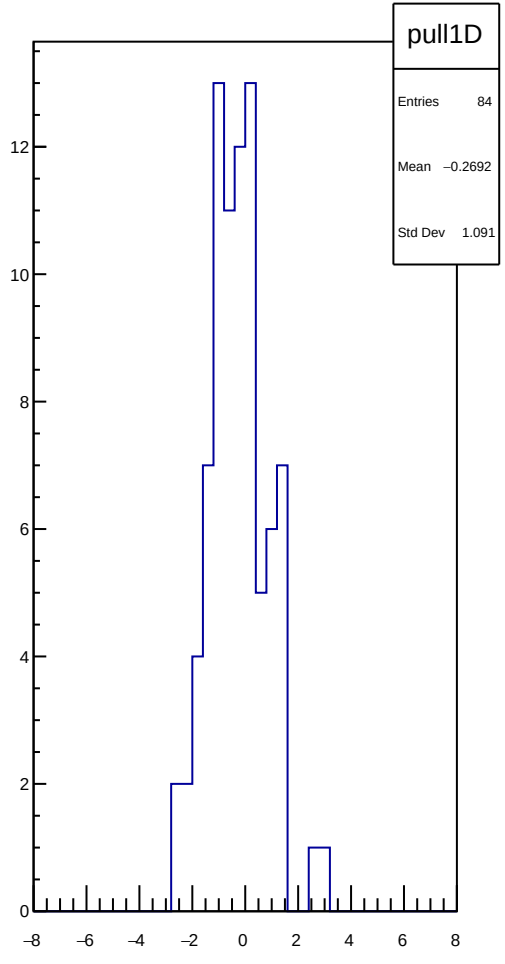

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.997e+04 / 83
p0 647.4 ± 0.5034
950
900
850
800
750
700
650
600
550


asym_usl_atl1_dd_mean vs run
χ² / ndf 93 / 83
p0 529.8 ± 1440
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −2022
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.002062
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_rms vs run
χ² / ndf 2636 / 83
p0 1316 ± 1.018
1500
1450
1400
1350
1300
1250


asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106.1 / 83
p0 6.804e−14 ± 3.543e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 84
Mean 39.37
Std Dev 26.45
3
2
1
0
−1
−2
−3


pull1D
Entries 84
Mean −0.2692
Std Dev 1.091
12
10
8
6
4
2
0
−8
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−4
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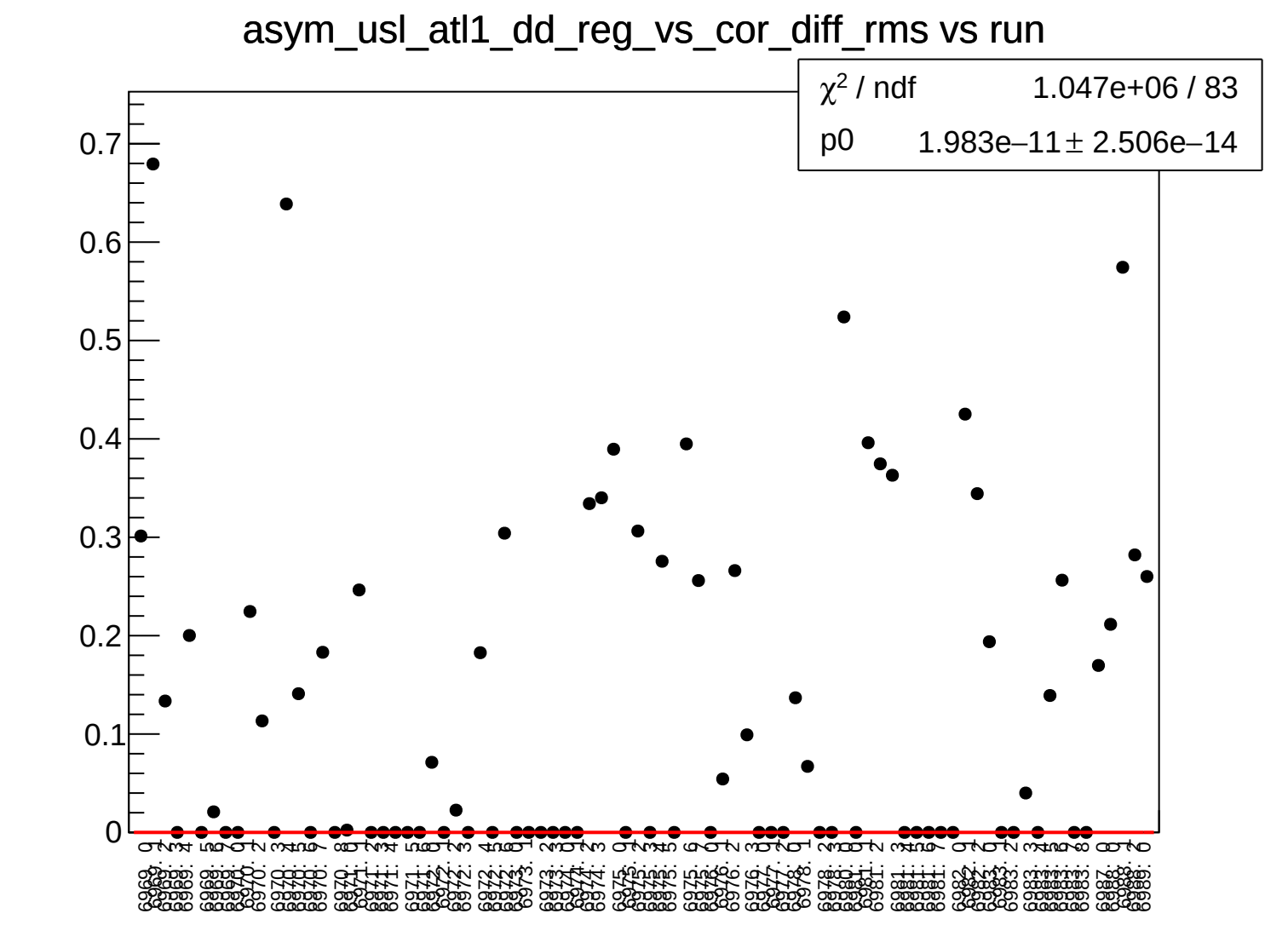
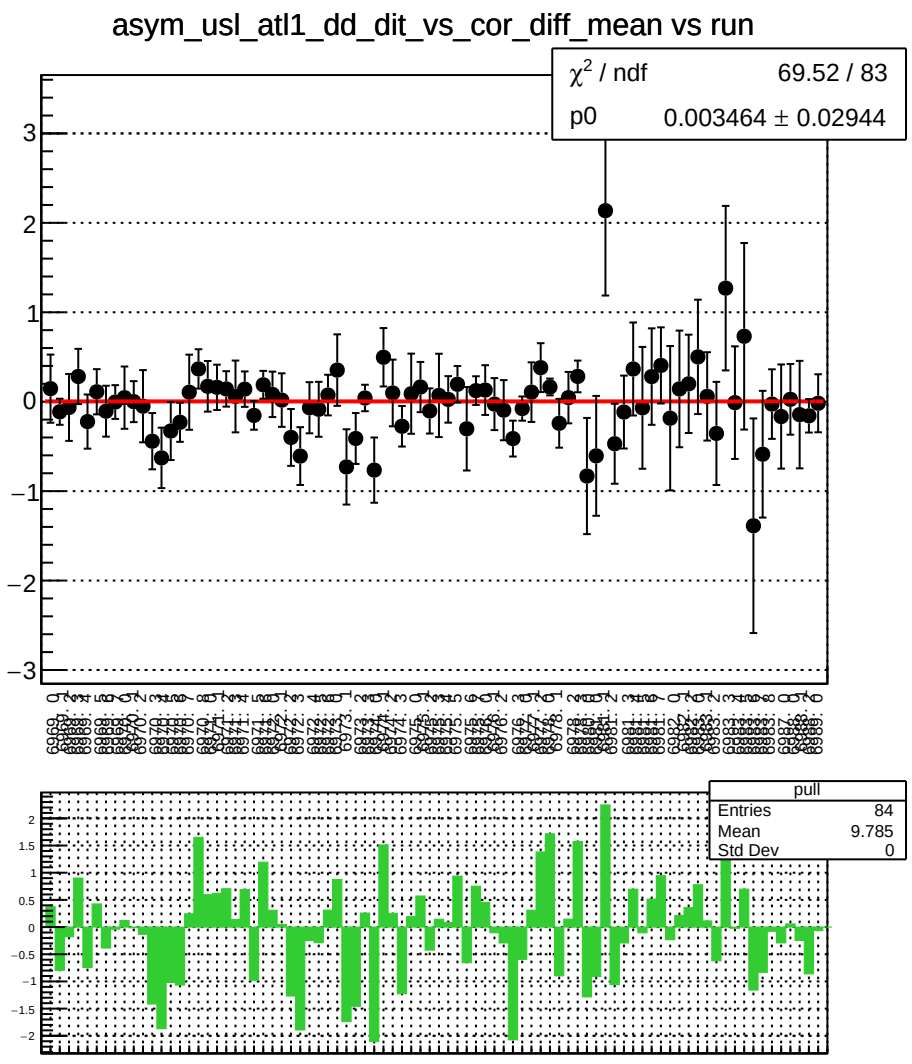
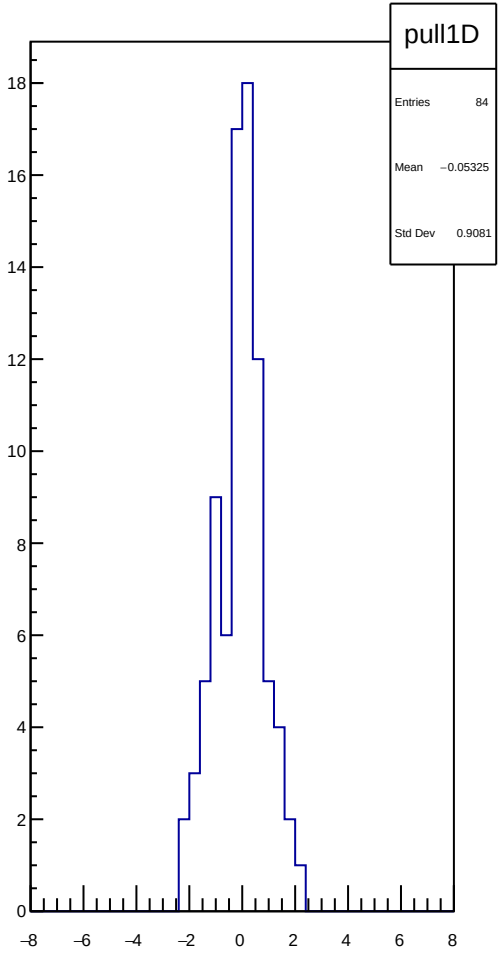
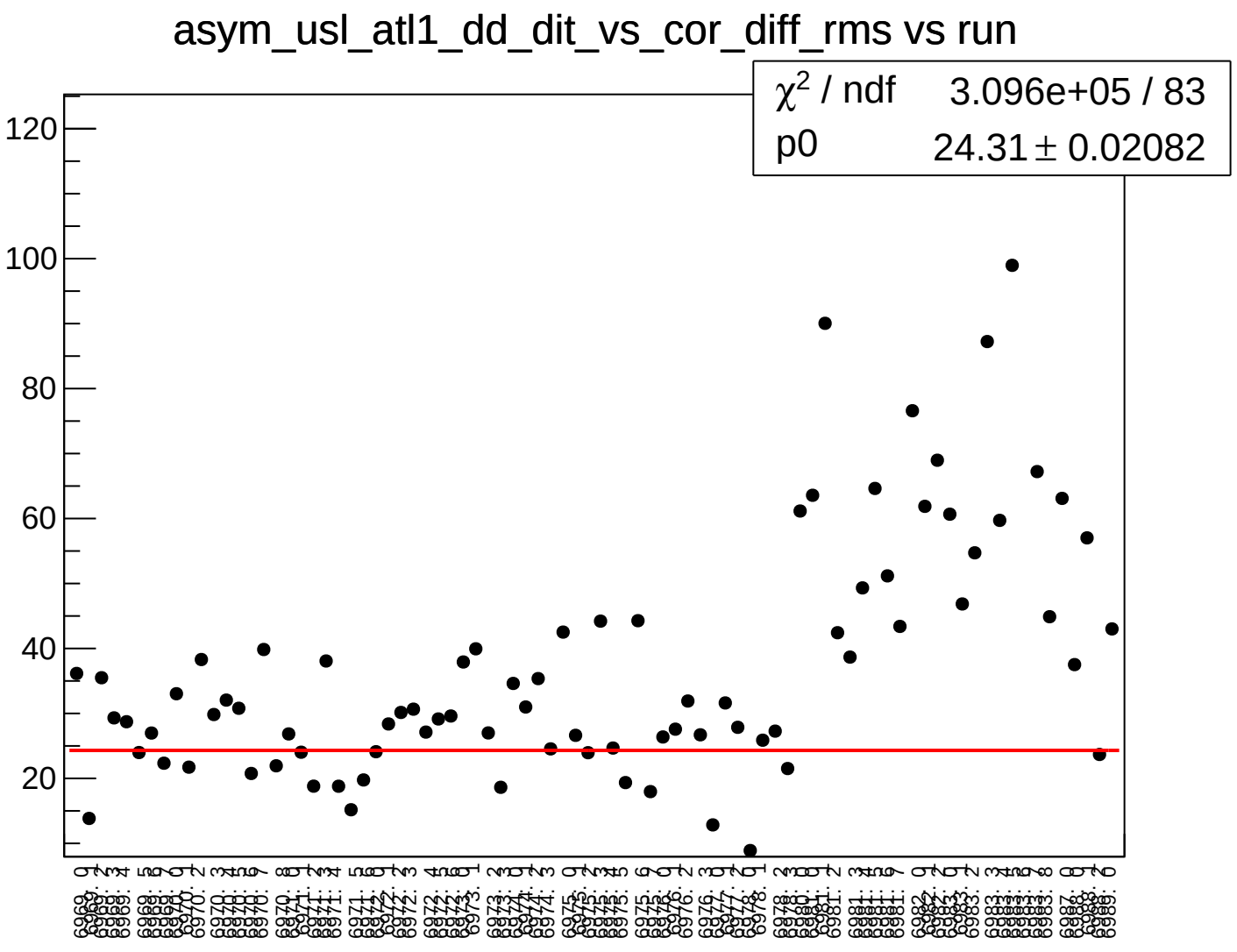
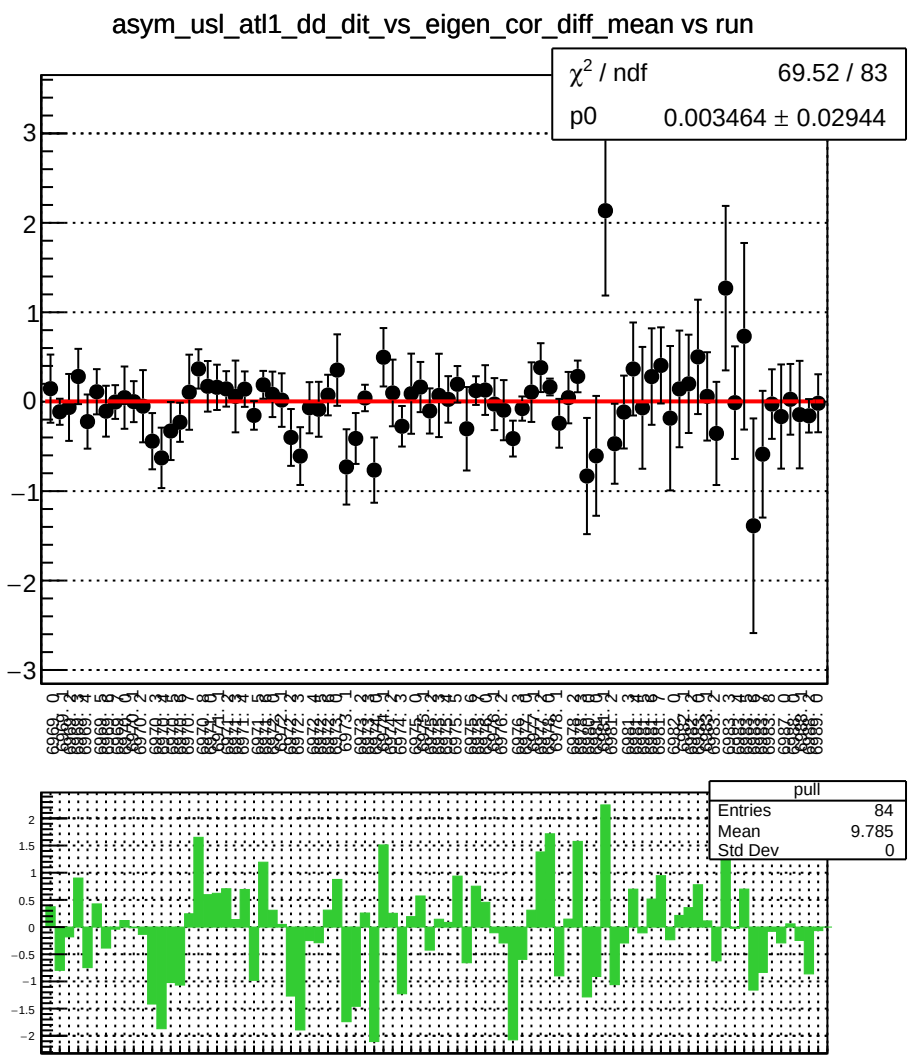
2
4
6
8

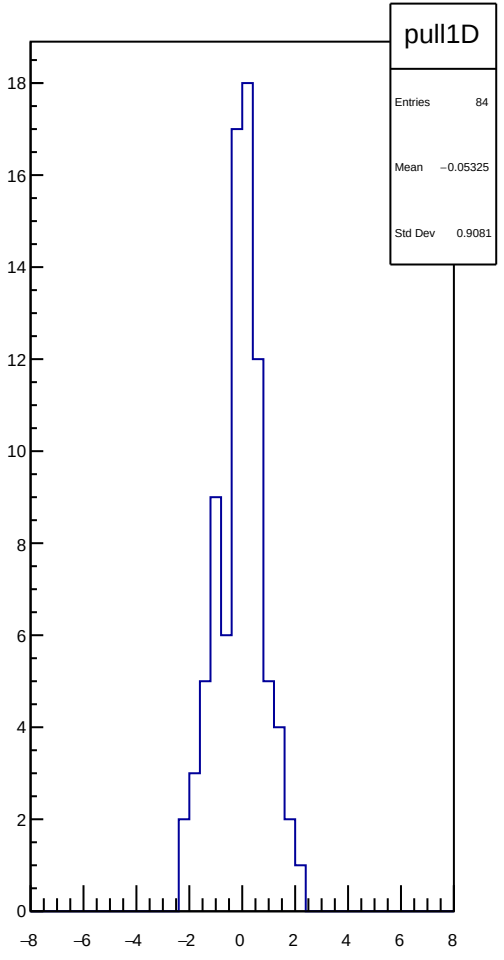

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.047e+06 / 83
p0 1.983e−11 ± 2.506e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

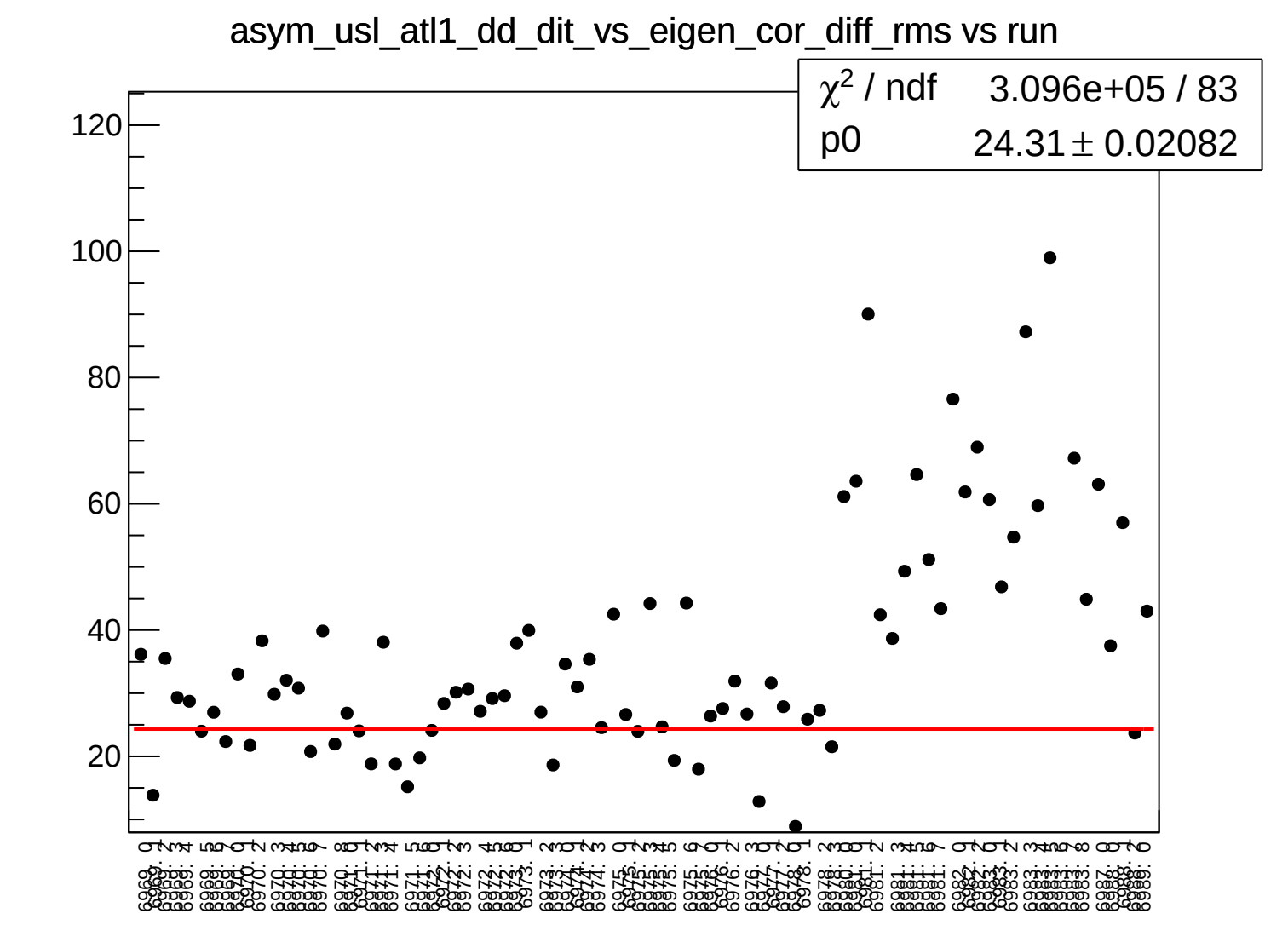

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.52 / 83
p0 0.003464 ± 0.02944
pull
Entries 84
Mean 9.785
Std Dev 0

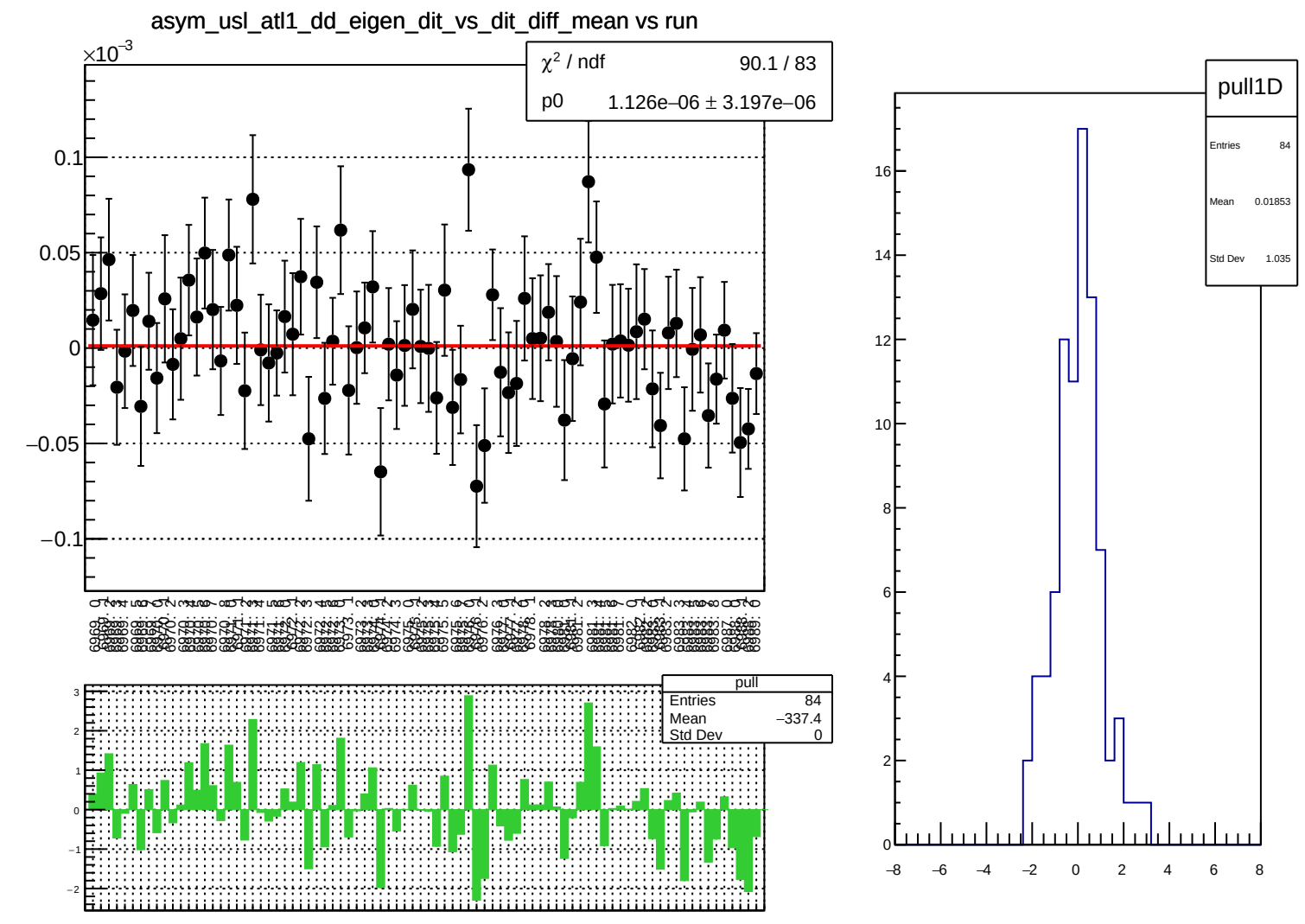

pull1D
Entries 84
Mean −0.05325
Std Dev 0.9081

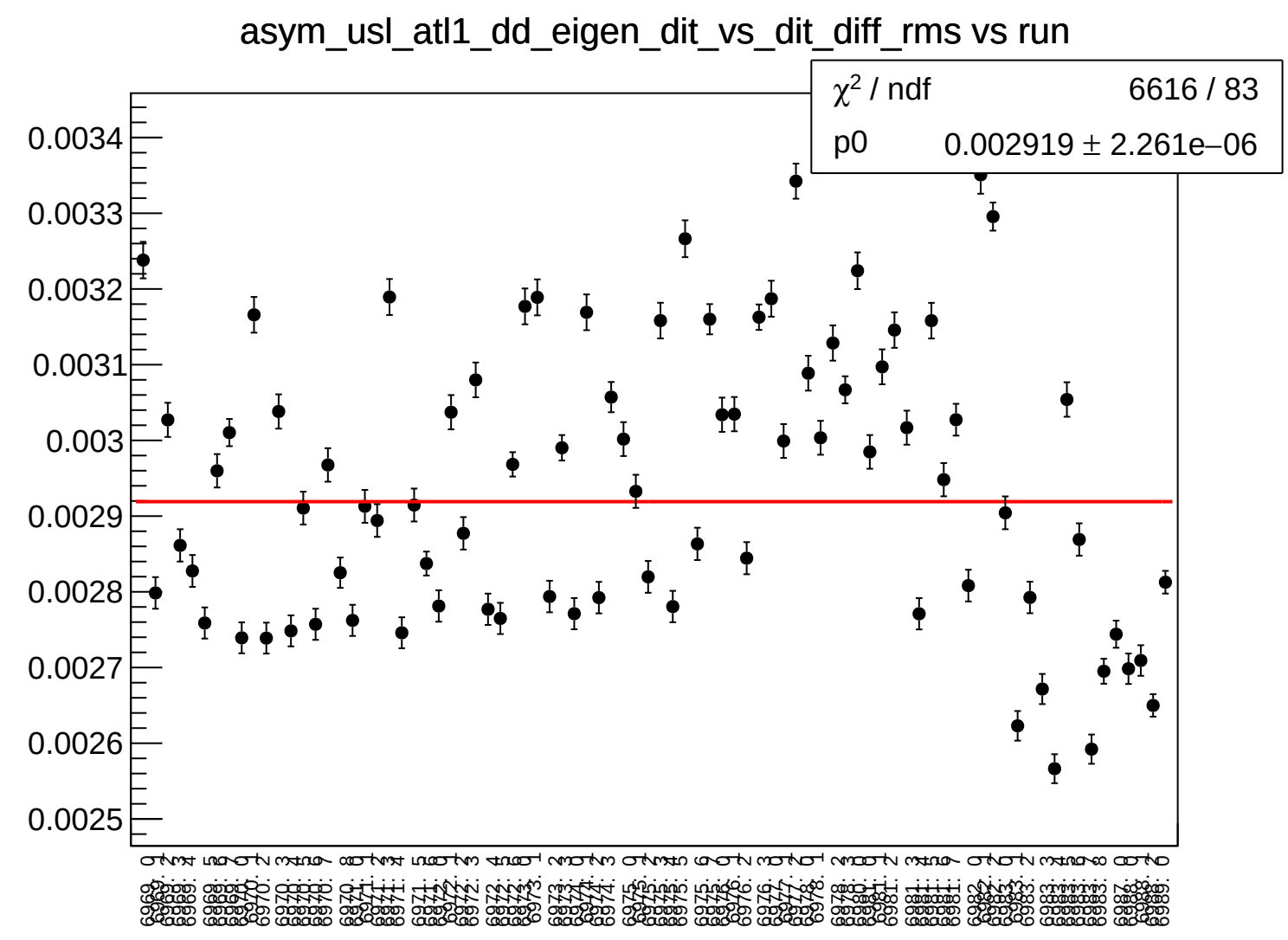

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.096e+05 / 83
p0 24.31 ± 0.02082
120
100
80
60
40
20

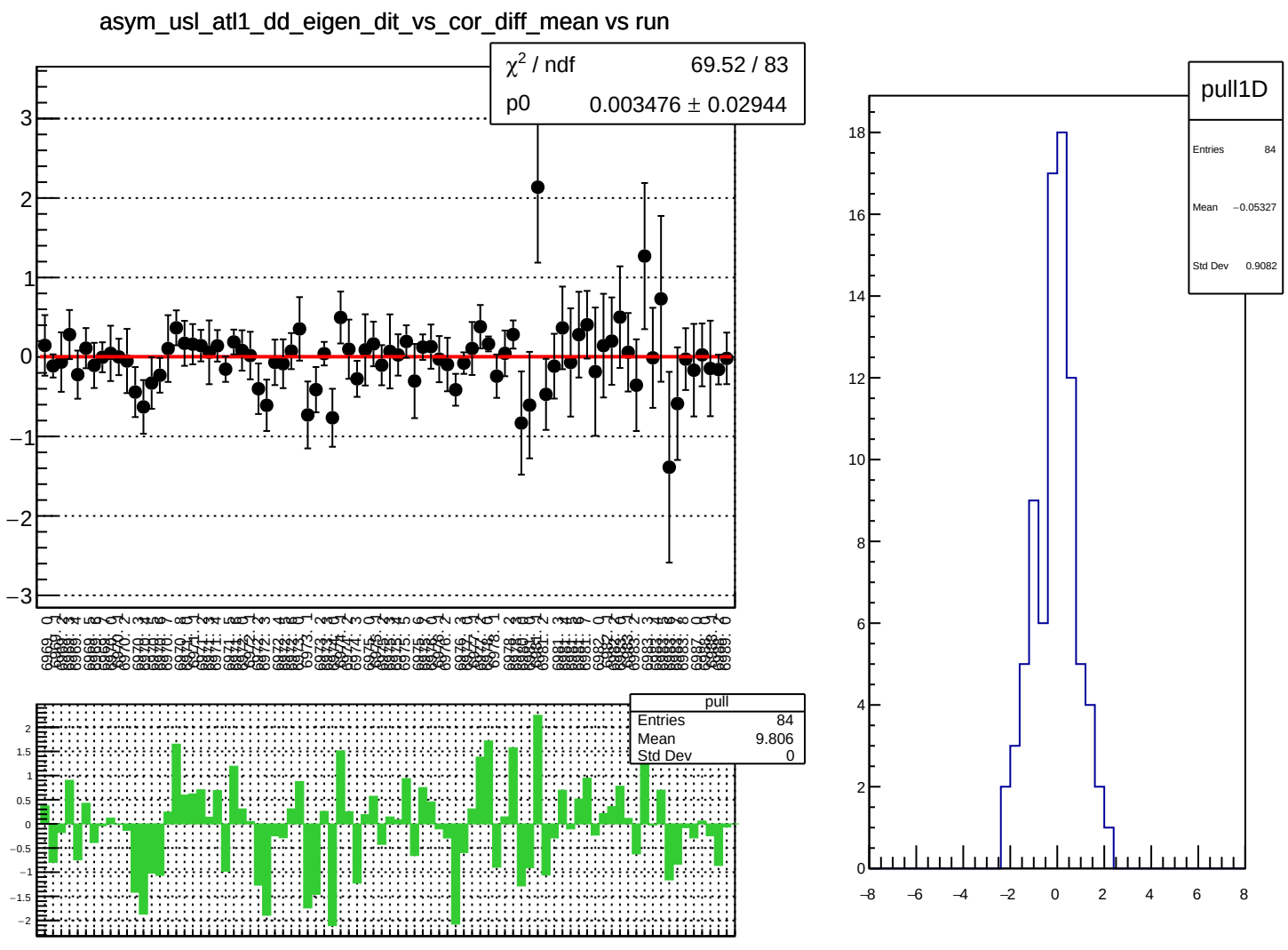

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.52 / 83
p0 0.003464 ± 0.02944
pull
Entries 84
Mean 9.785
Std Dev 0

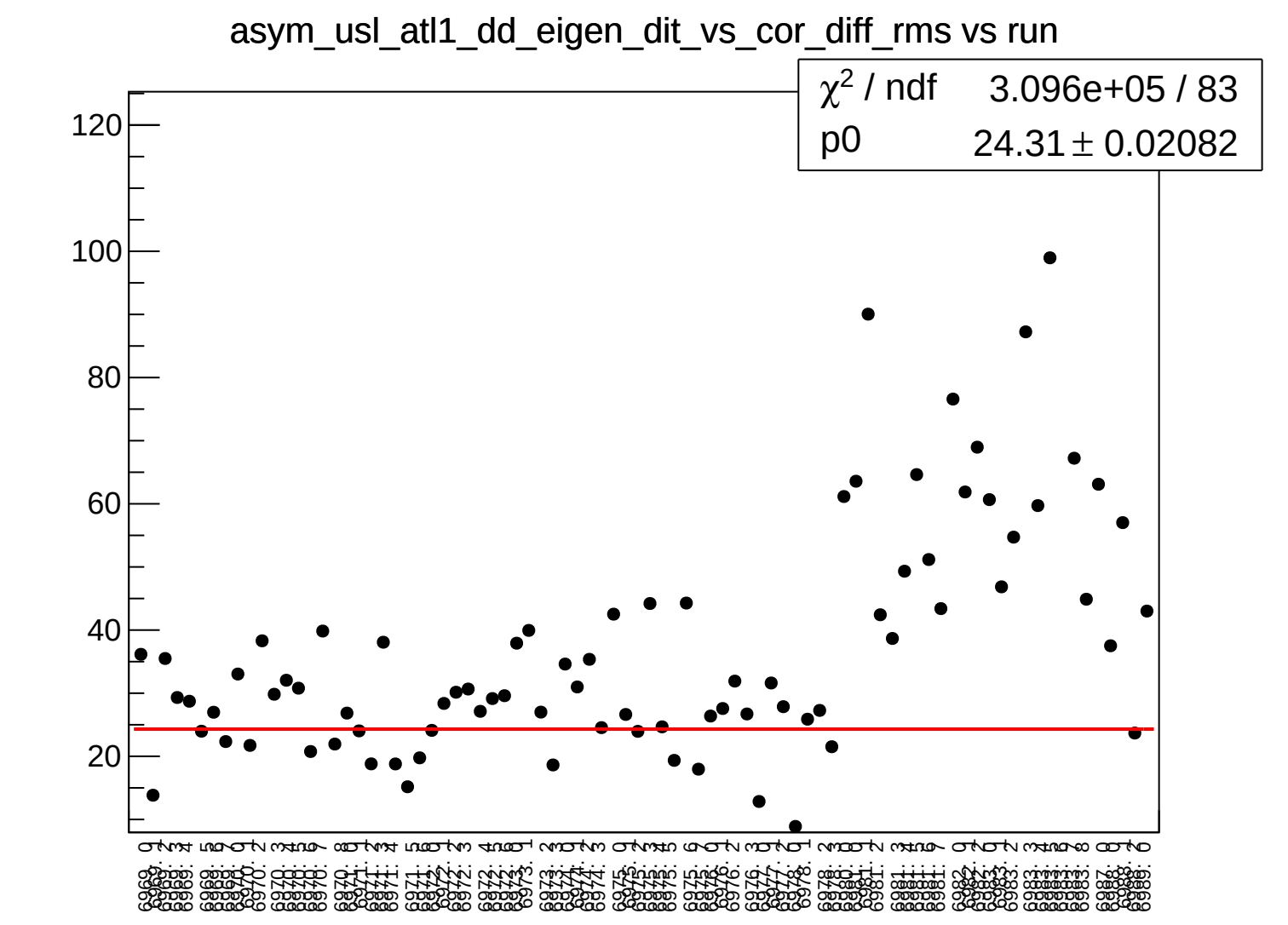

pull1D
Entries 84
Mean −0.05325
Std Dev 0.9081

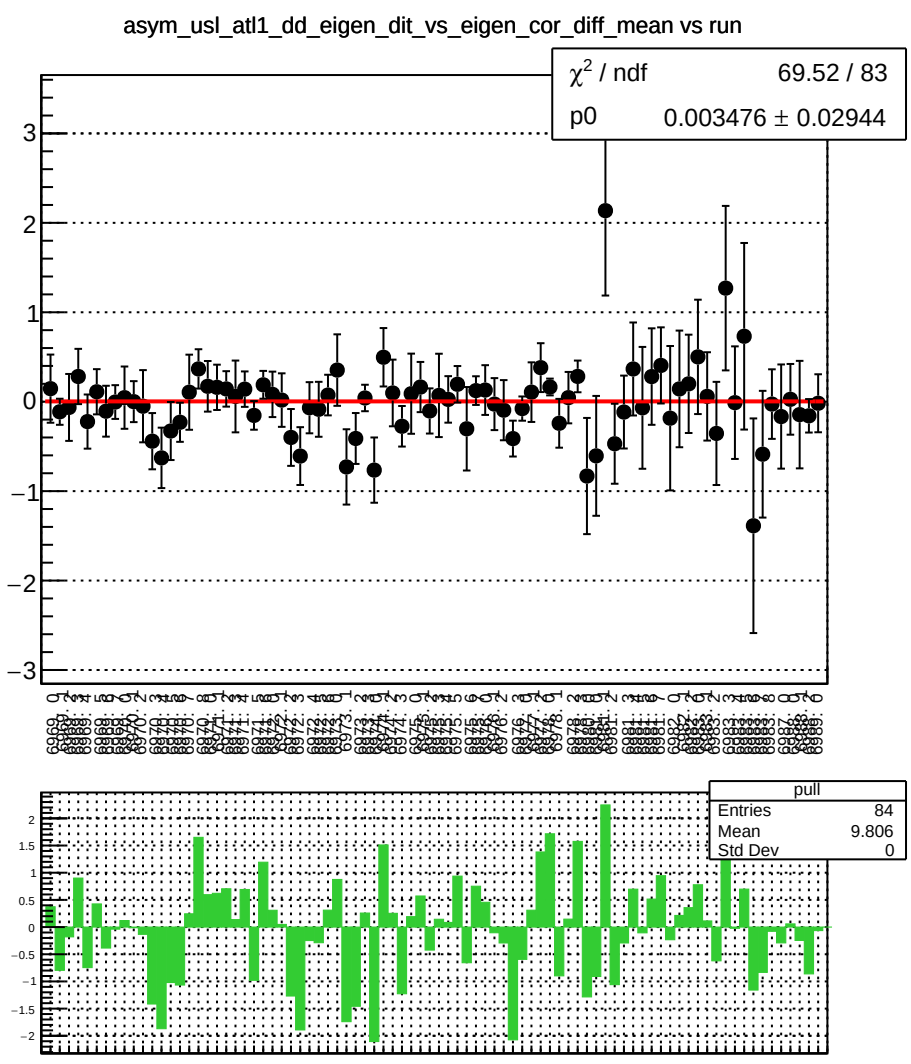

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.096e+05 / 83
p0 24.31 ± 0.02082
120
100
80
60
40
20

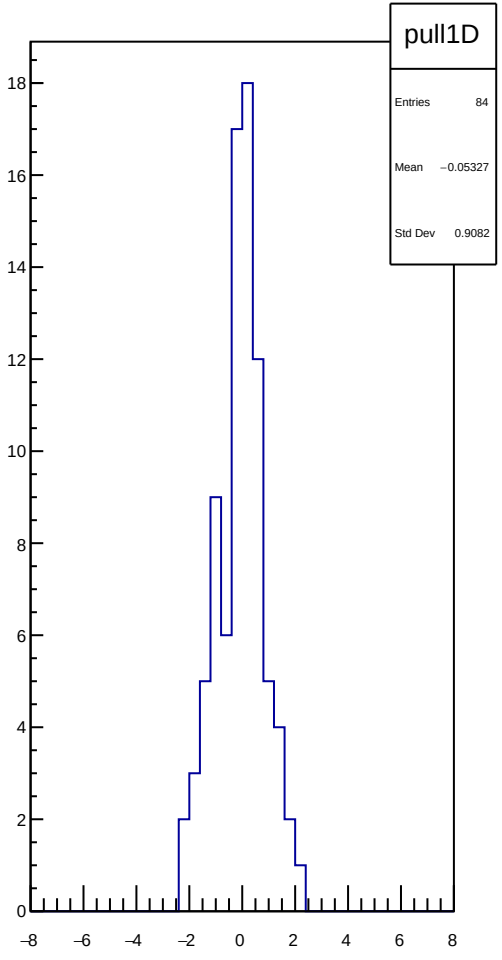

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.1 / 83
p0 1.126e−06 ± 3.197e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean −337.4
Std Dev 0
pull1D
Entries 84
Mean 0.01853
Std Dev 1.035

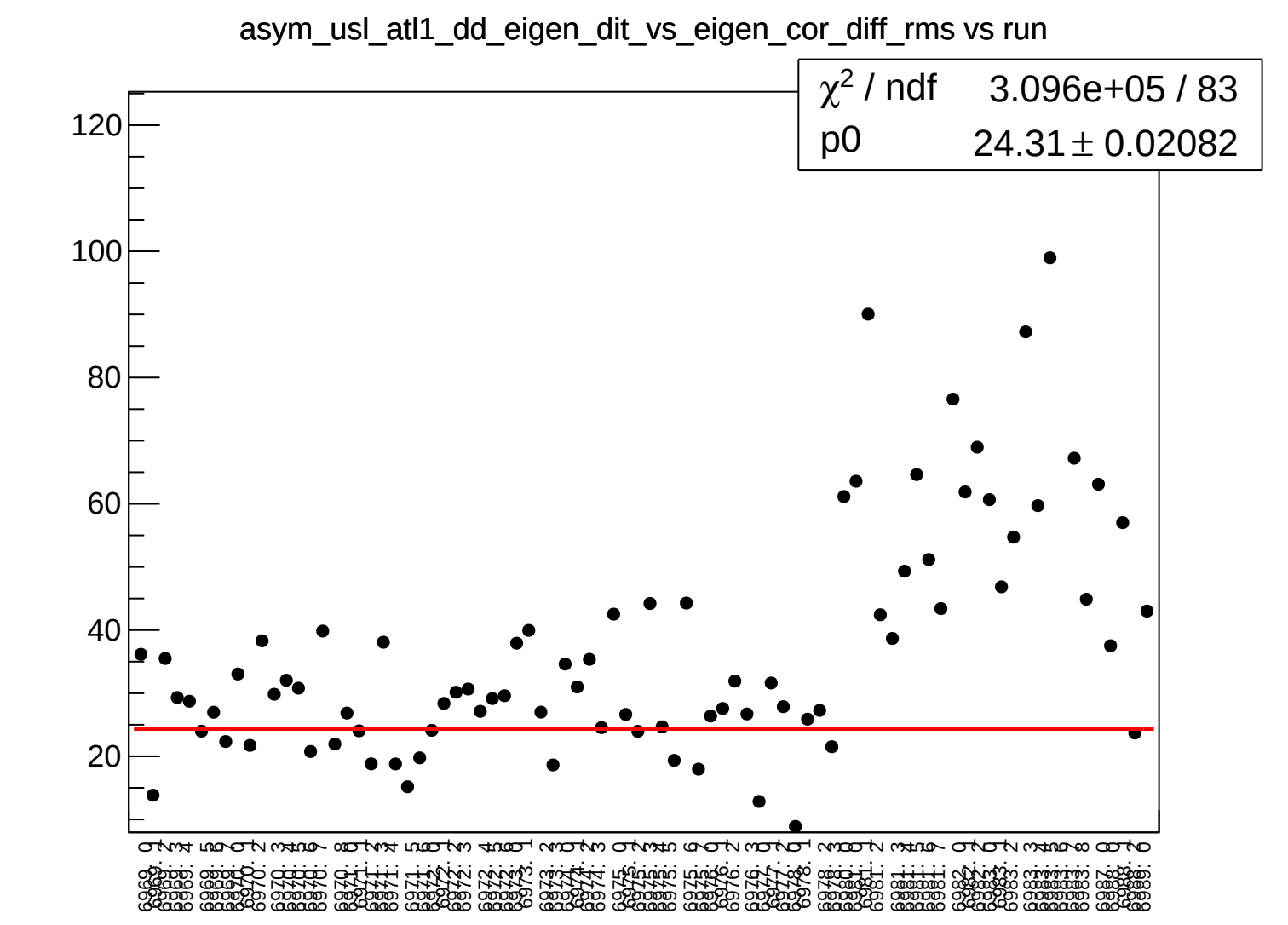

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6616 / 83
p0 0.002919 ± 2.261e−06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

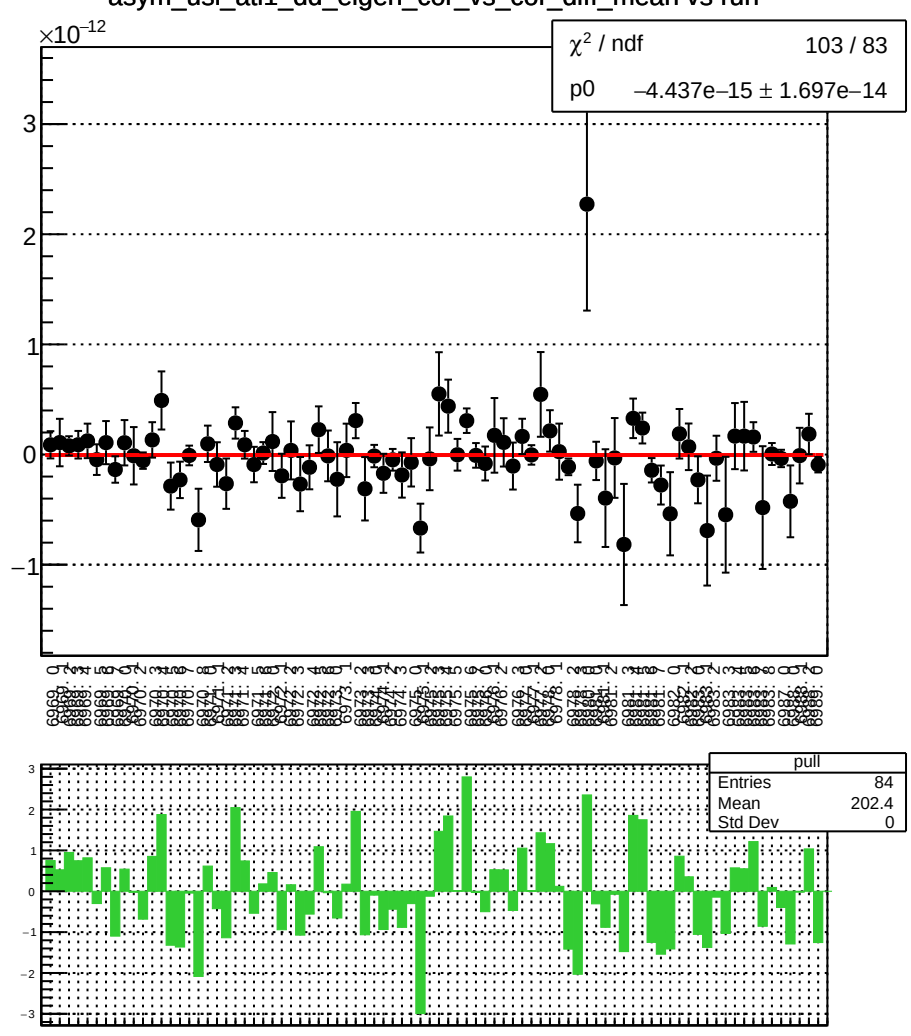

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.52 / 83
p0 0.003476 ± 0.02944
pull
Entries 84
Mean 9.806
Std Dev 0
pull1D
Entries 84
Mean −0.05327
Std Dev 0.9082

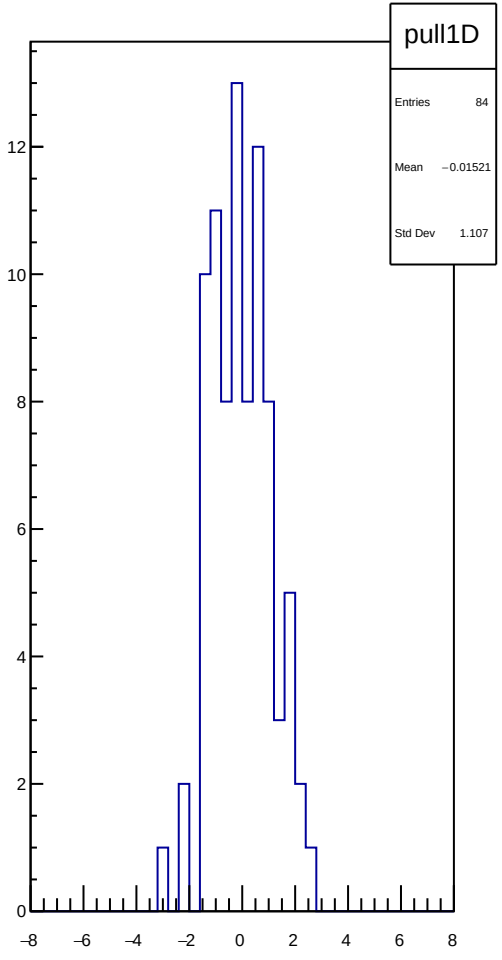

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.096e+05 / 83
p0 24.31 ± 0.02082
120
100
80
60
40
20

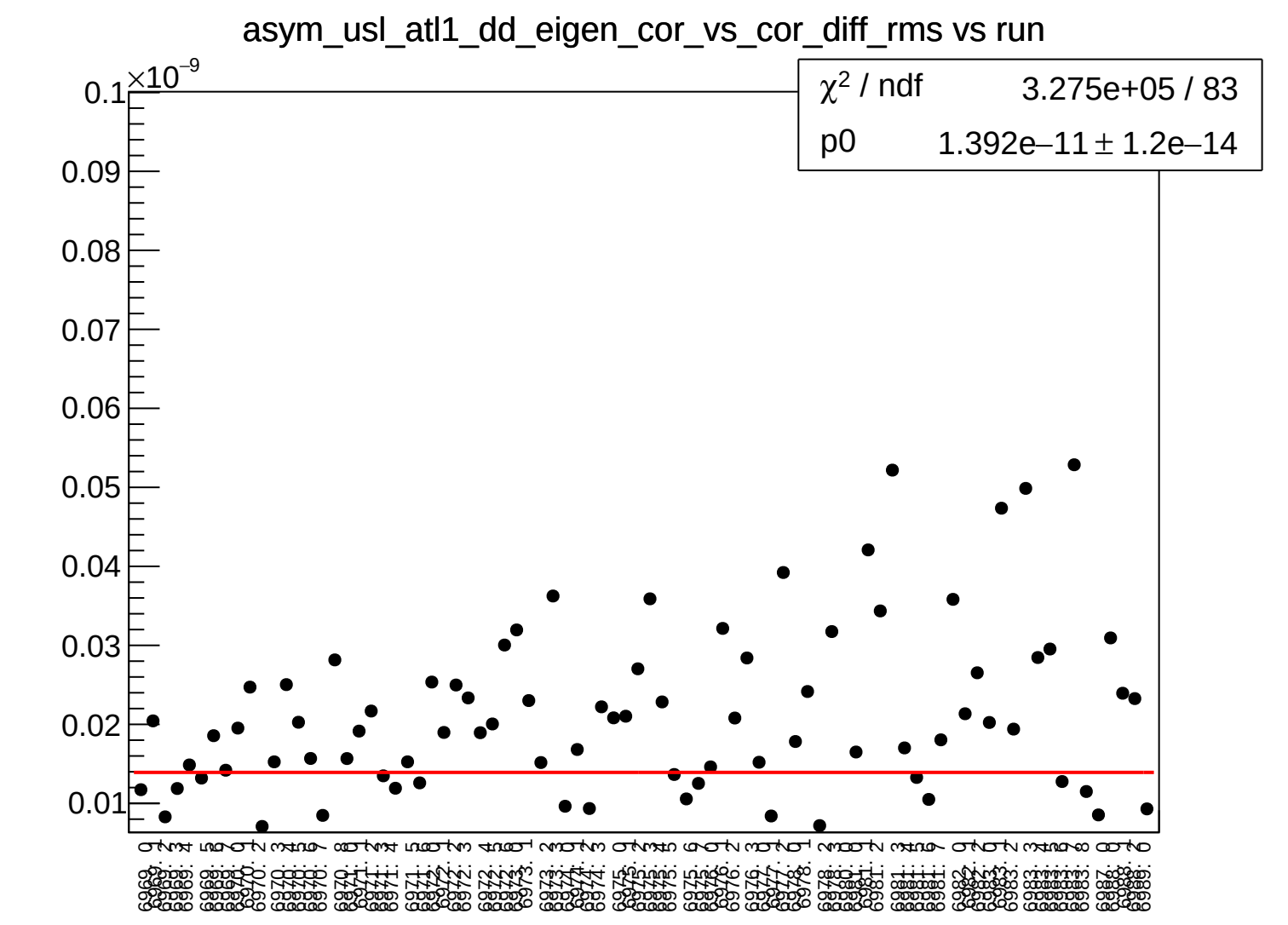

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.52 / 83
p0 0.003476 ± 0.02944
pull
Entries 84
Mean 9.806
Std Dev 0

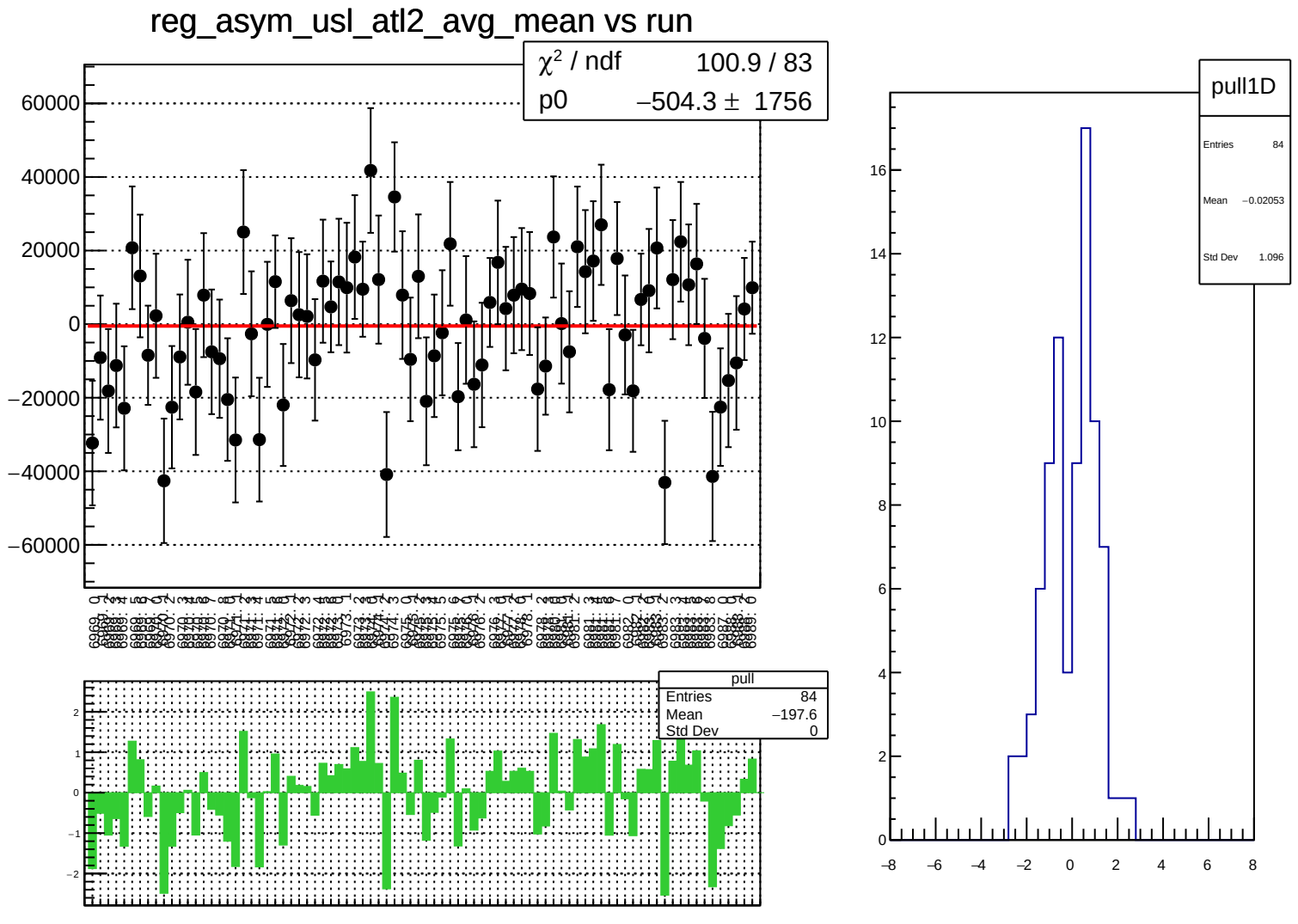

pull1D
Entries 84
Mean −0.05327
Std Dev 0.9082

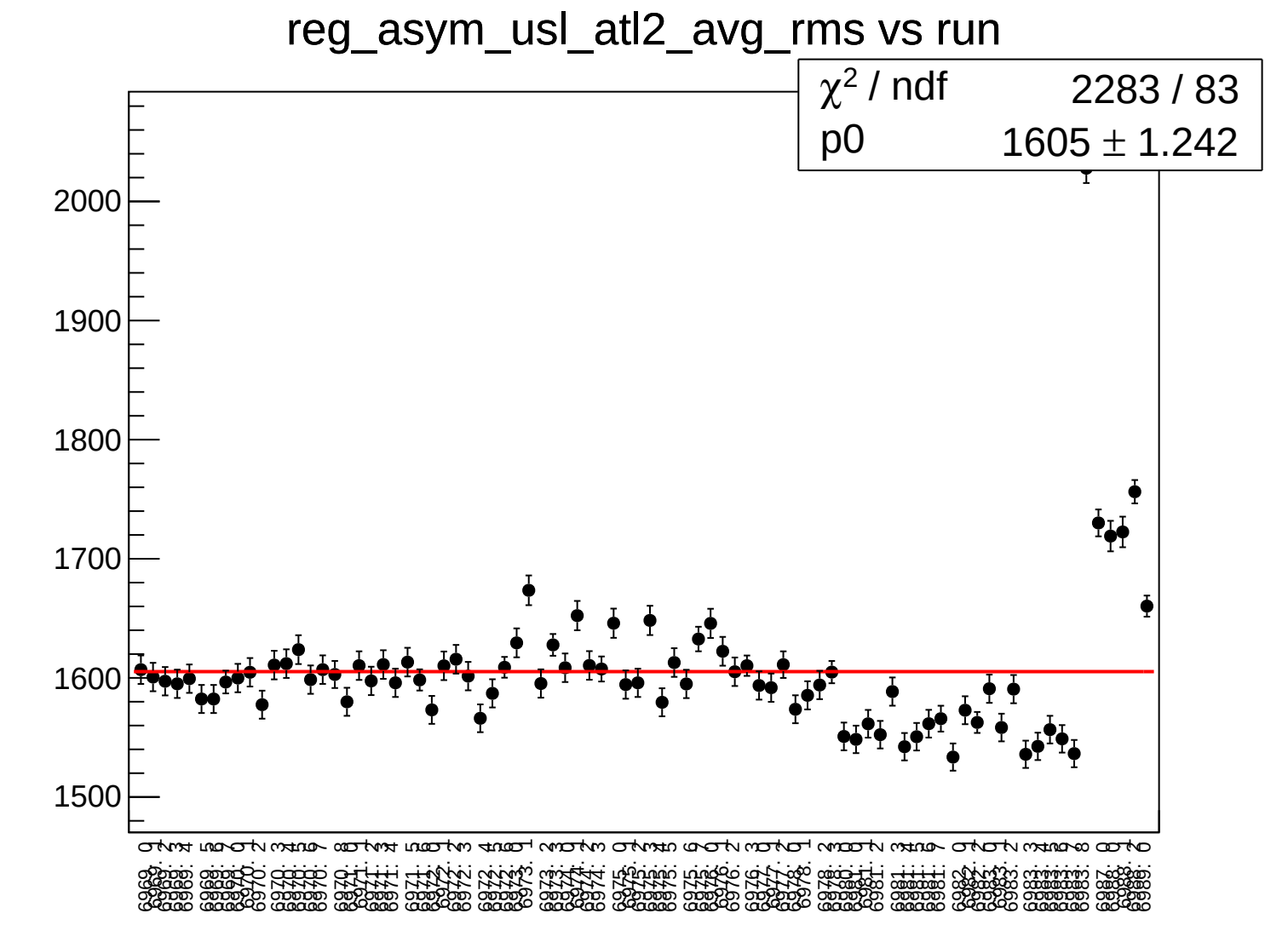

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.096e+05 / 83
p0 24.31 ± 0.02082
120
100
80
60
40
20

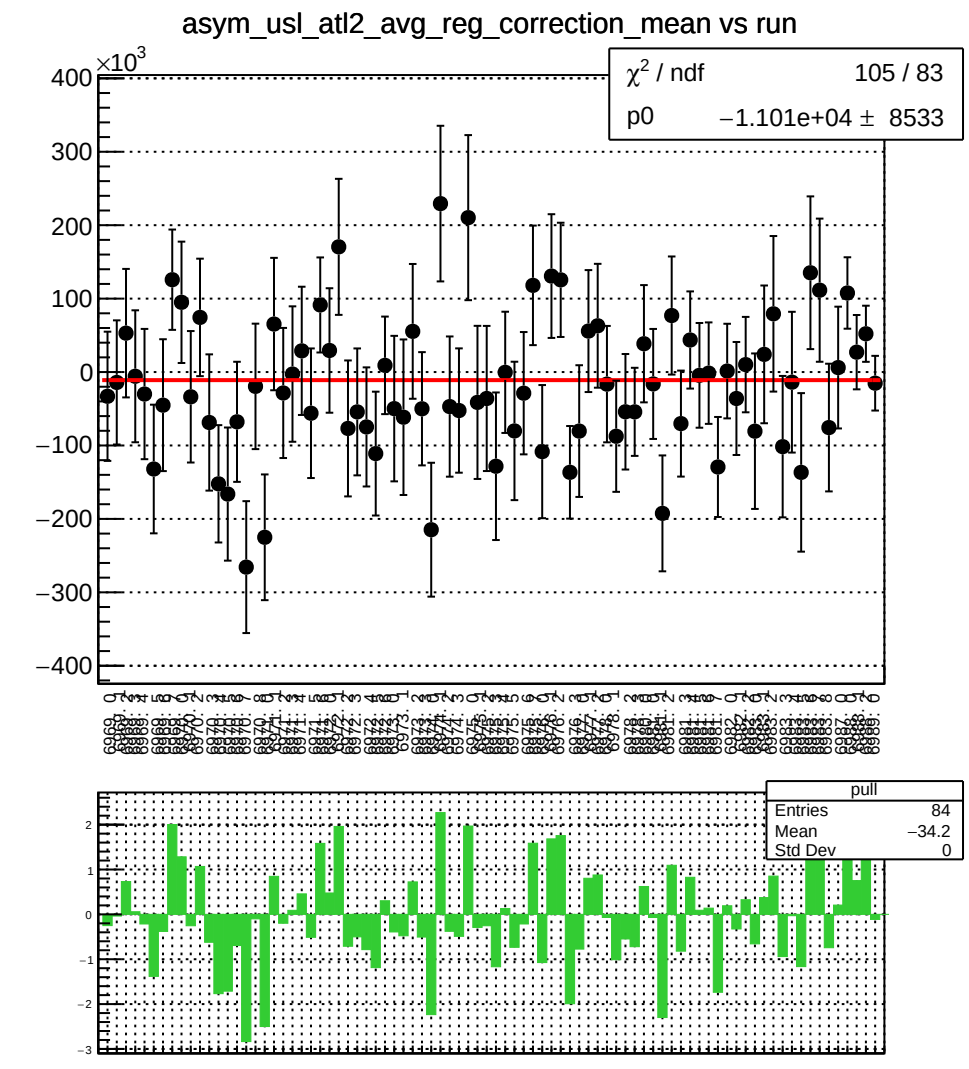

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103 / 83
p0 −4.437e−15 ± 1.697e−14
pull
Entries 84
Mean 202.4
Std Dev 0

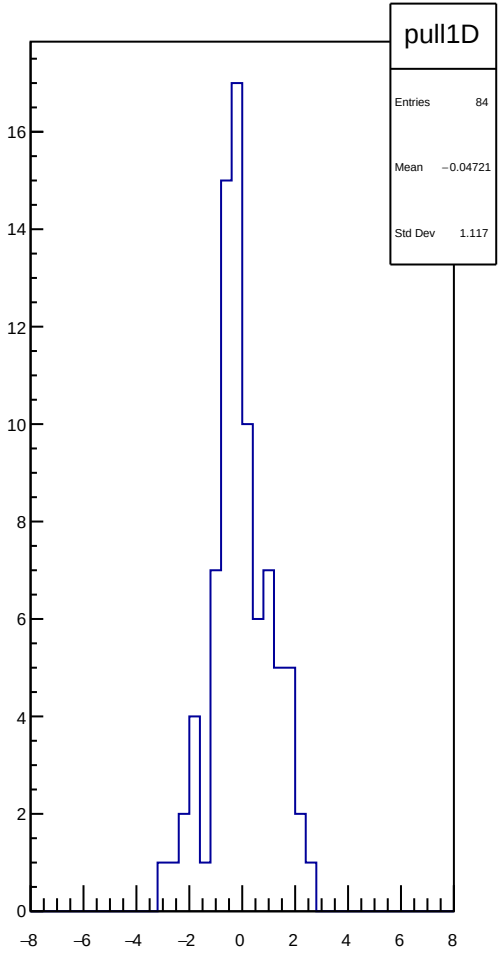

pull1D
Entries 84
Mean −0.01521
Std Dev 1.107

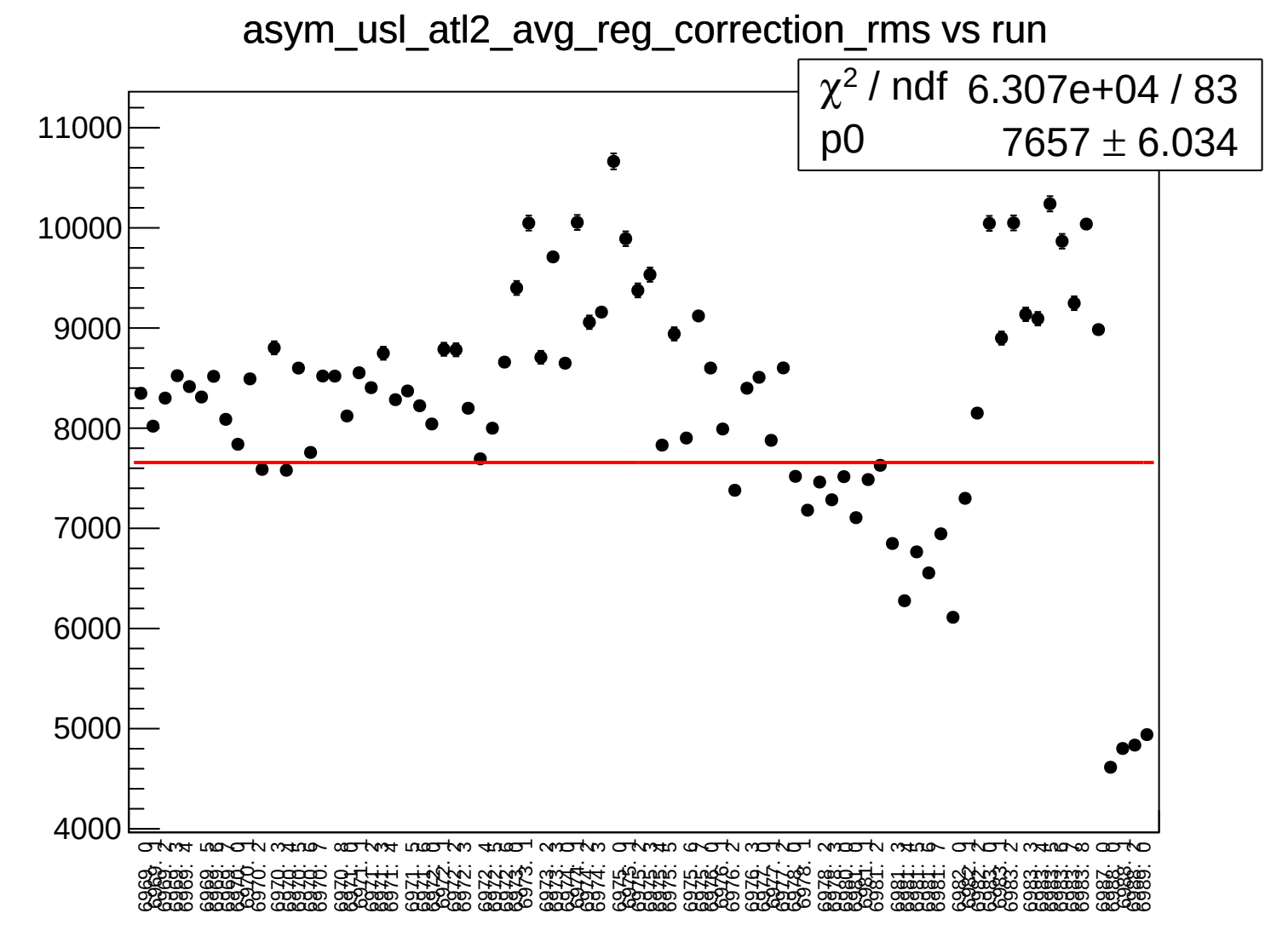

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.275e+05 / 83
p0 1.392e−11 ± 1.2e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

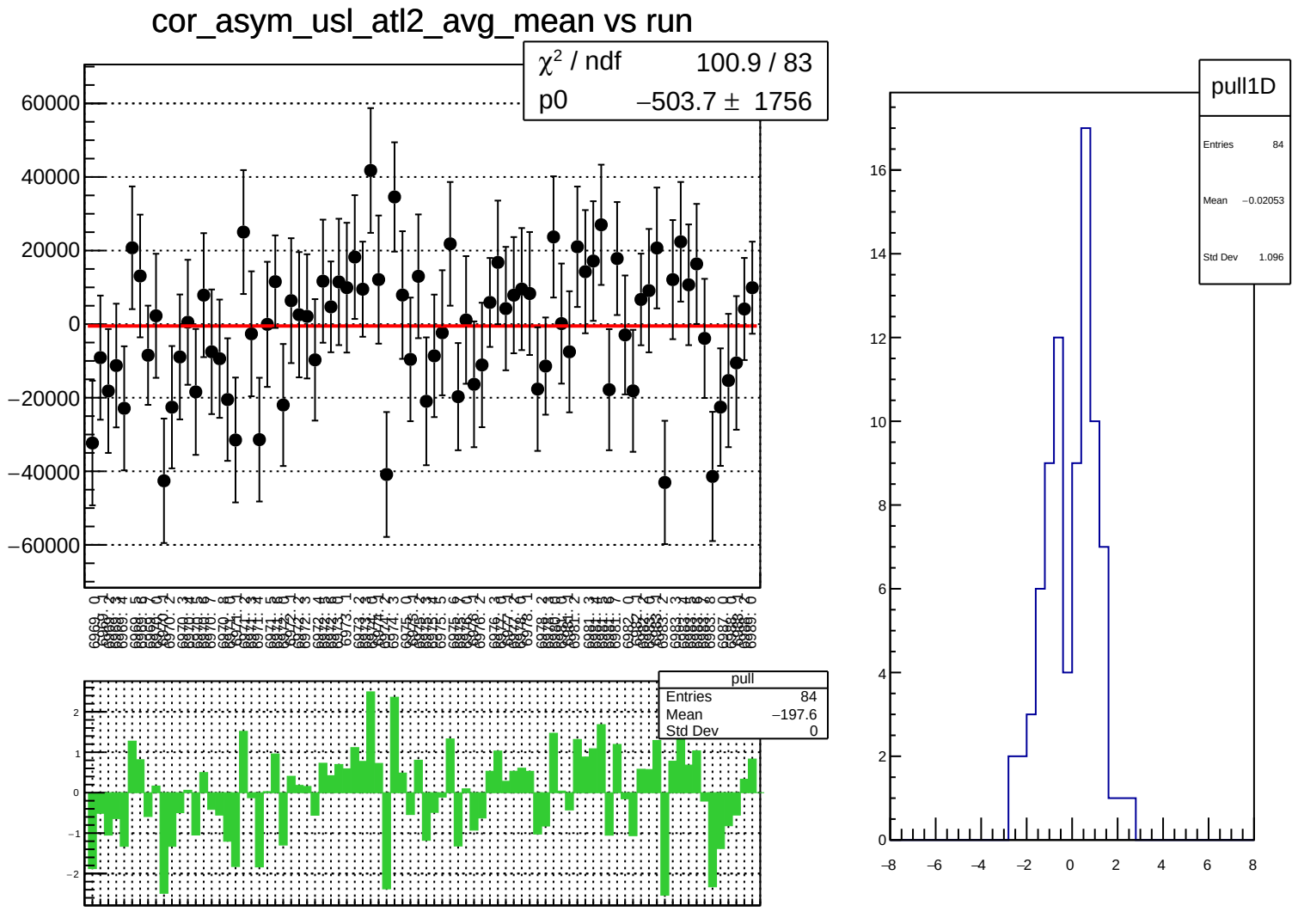

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 100.9 / 83
p0 −504.3 ± 1756
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −197.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.02053
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

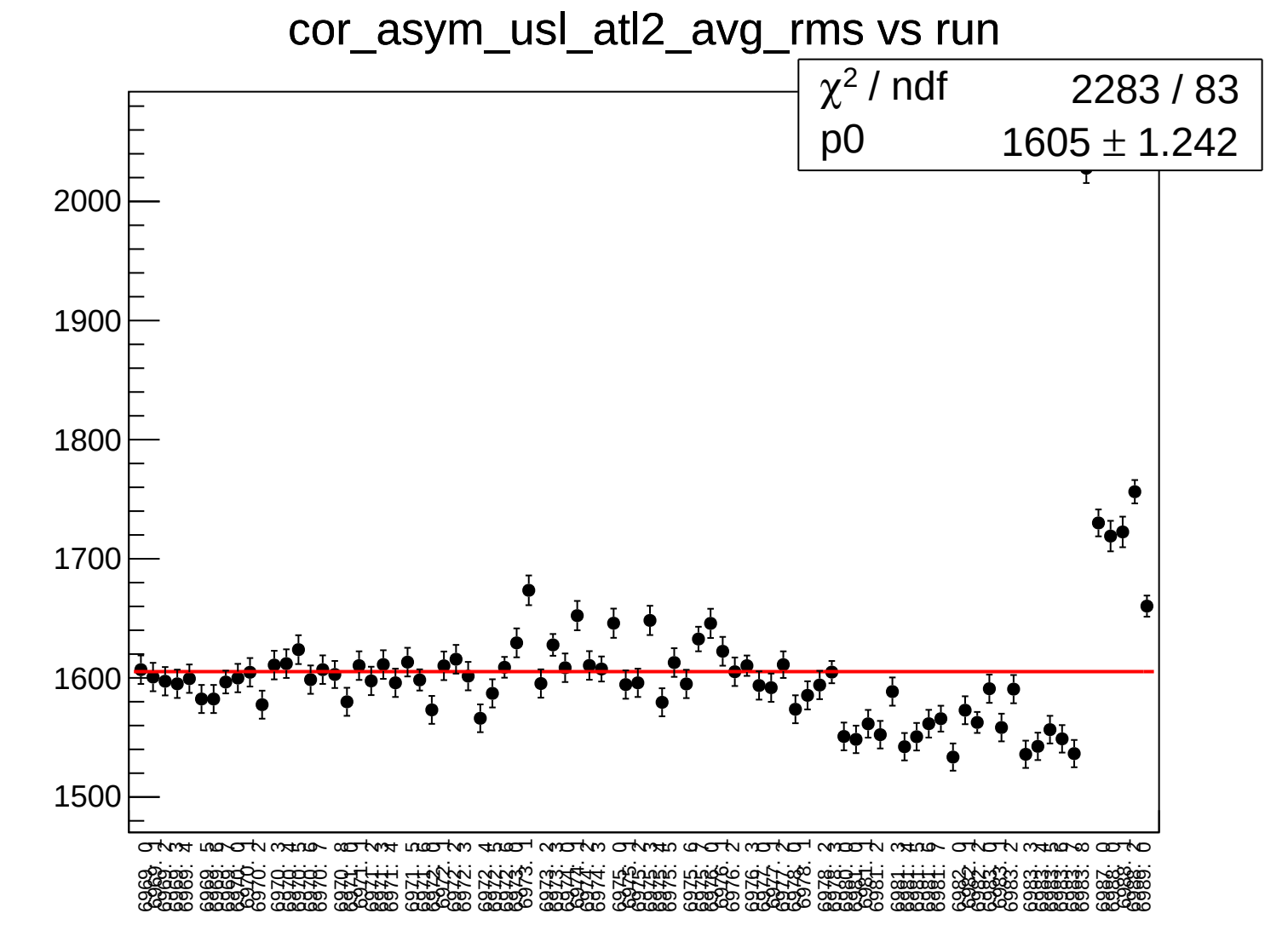

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 2283 / 83
p0 1605 ± 1.242
2000
1900
1800
1700
1600
1500

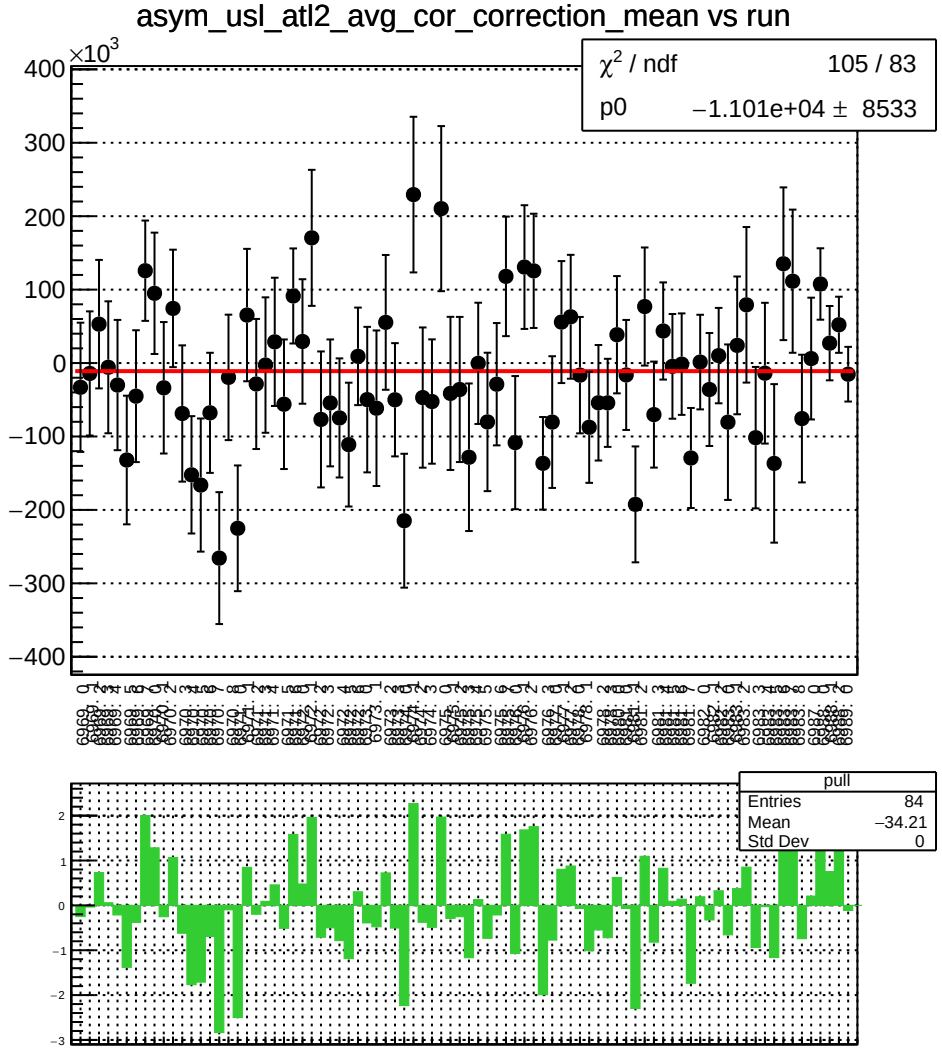

asym_usl_atl2_avg_reg_correction_mean vs run
χ² / ndf 105 / 83
p0 −1.101e+04 ± 8533
×10³
pull
Entries 84
Mean −34.2
Std Dev 0

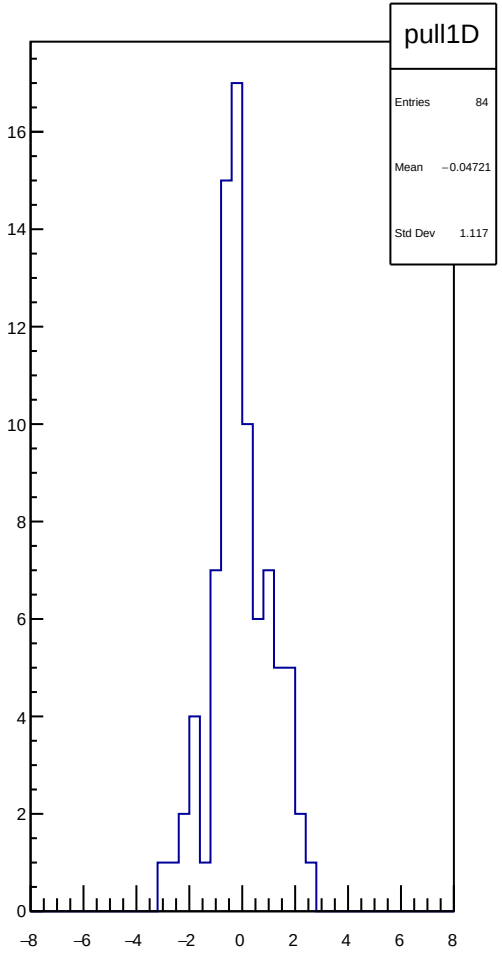

pull1D
Entries 84
Mean −0.04721
Std Dev 1.117

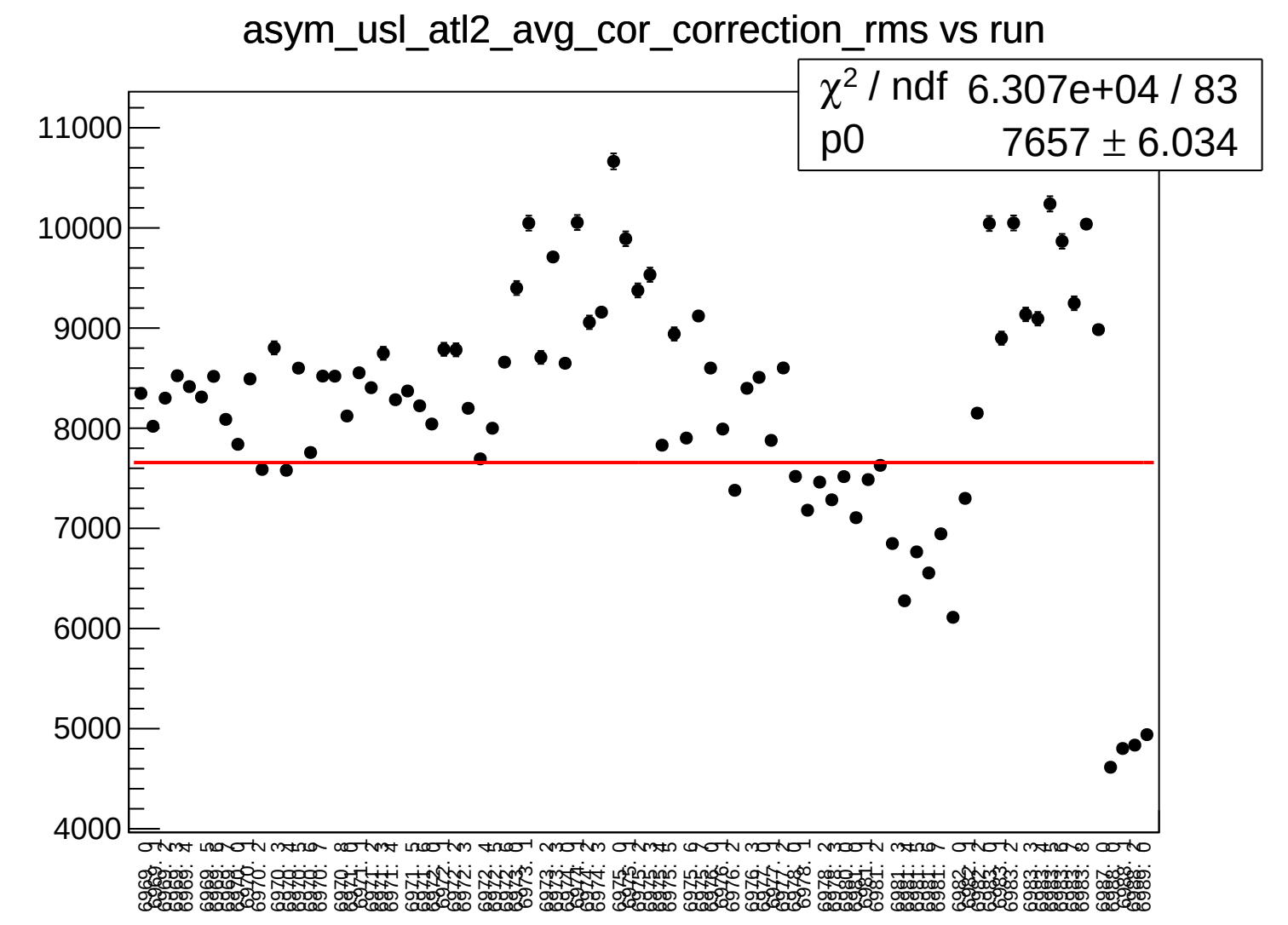

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 6.307e+04 / 83
p0 7657 ± 6.034
11000
10000
9000
8000
7000
6000
5000
4000

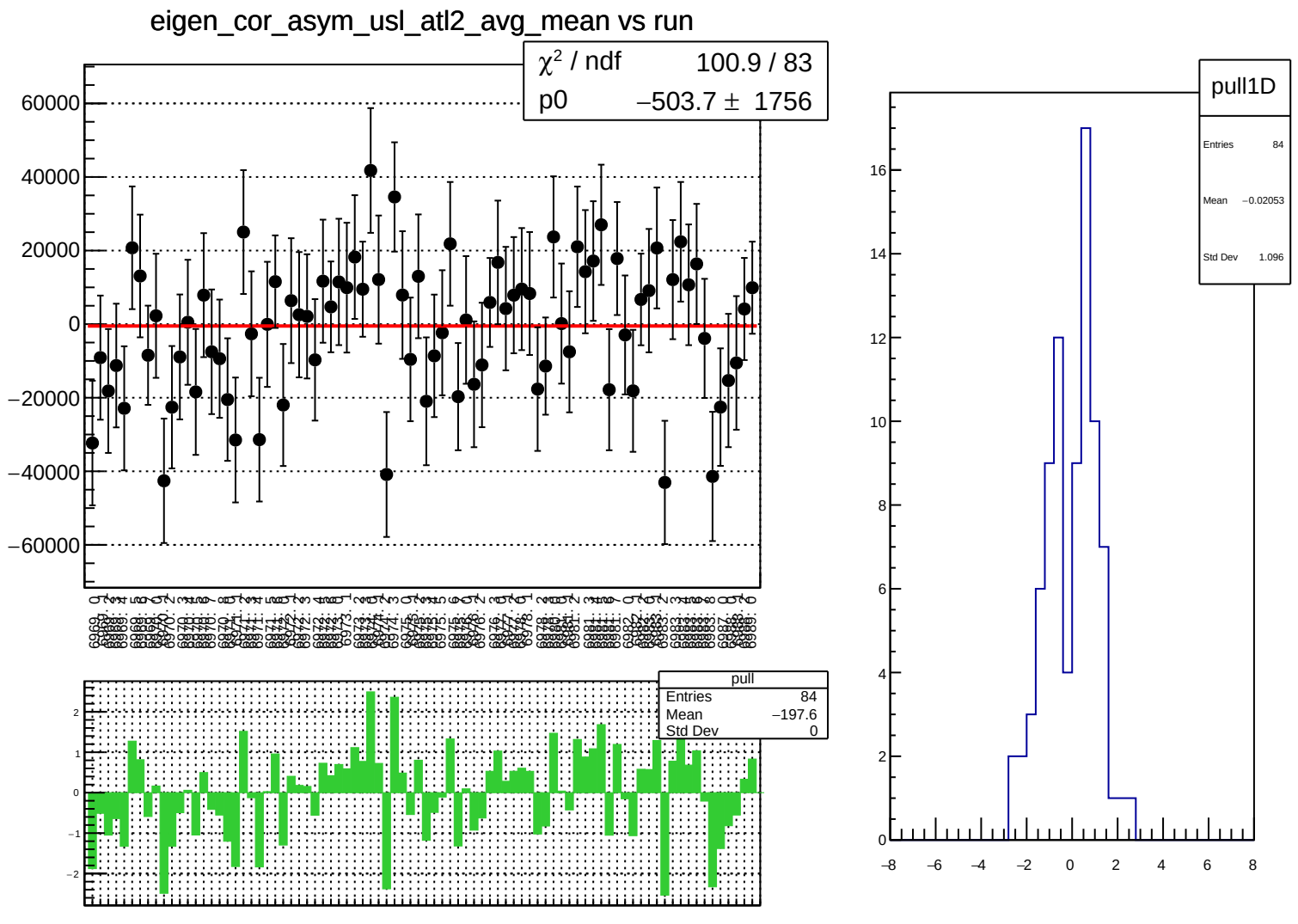

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 100.9 / 83
p0 −503.7 ± 1756
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −197.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.02053
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

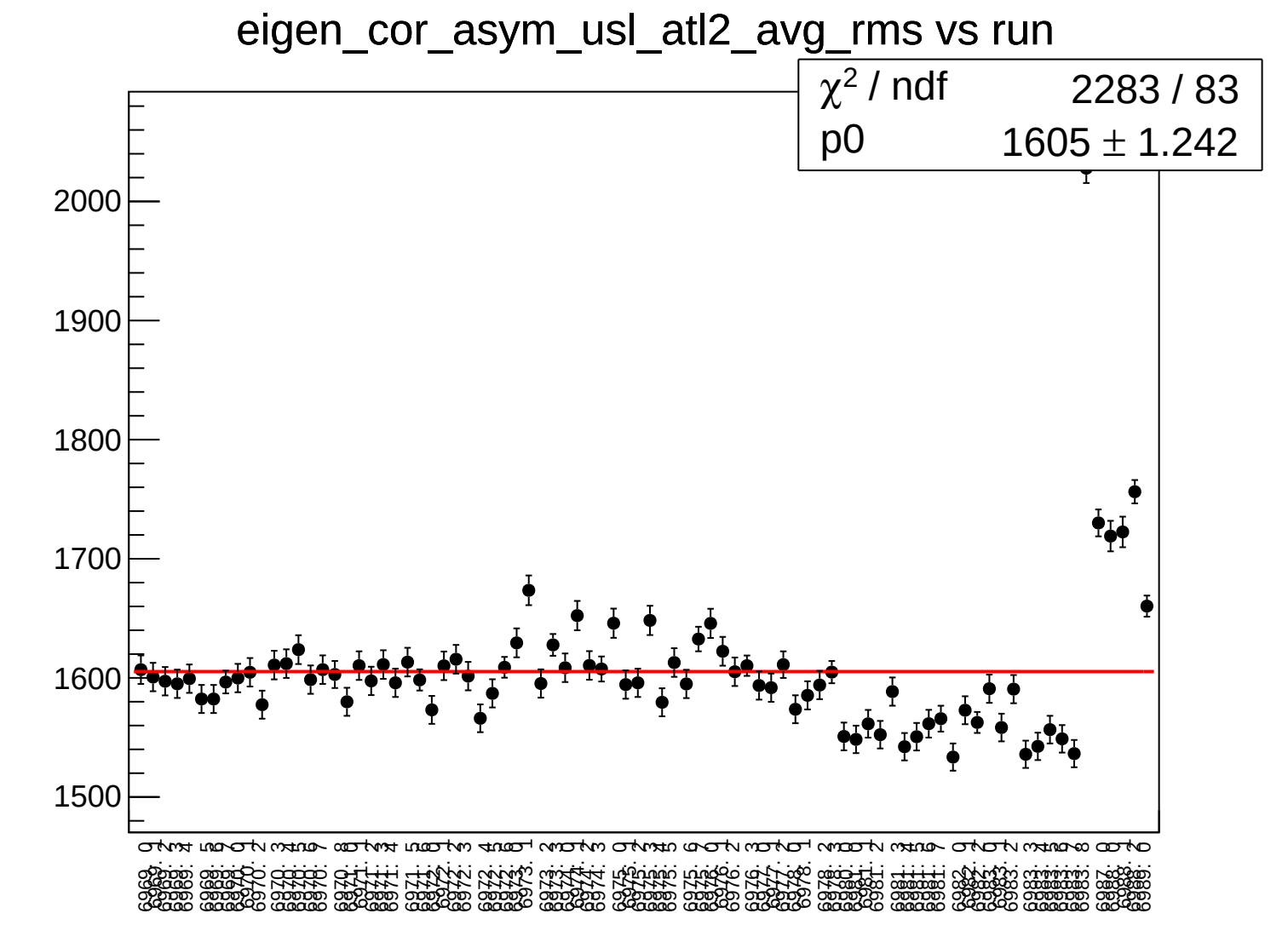

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 2283 / 83
p0 1605 ± 1.242
2000
1900
1800
1700
1600
1500

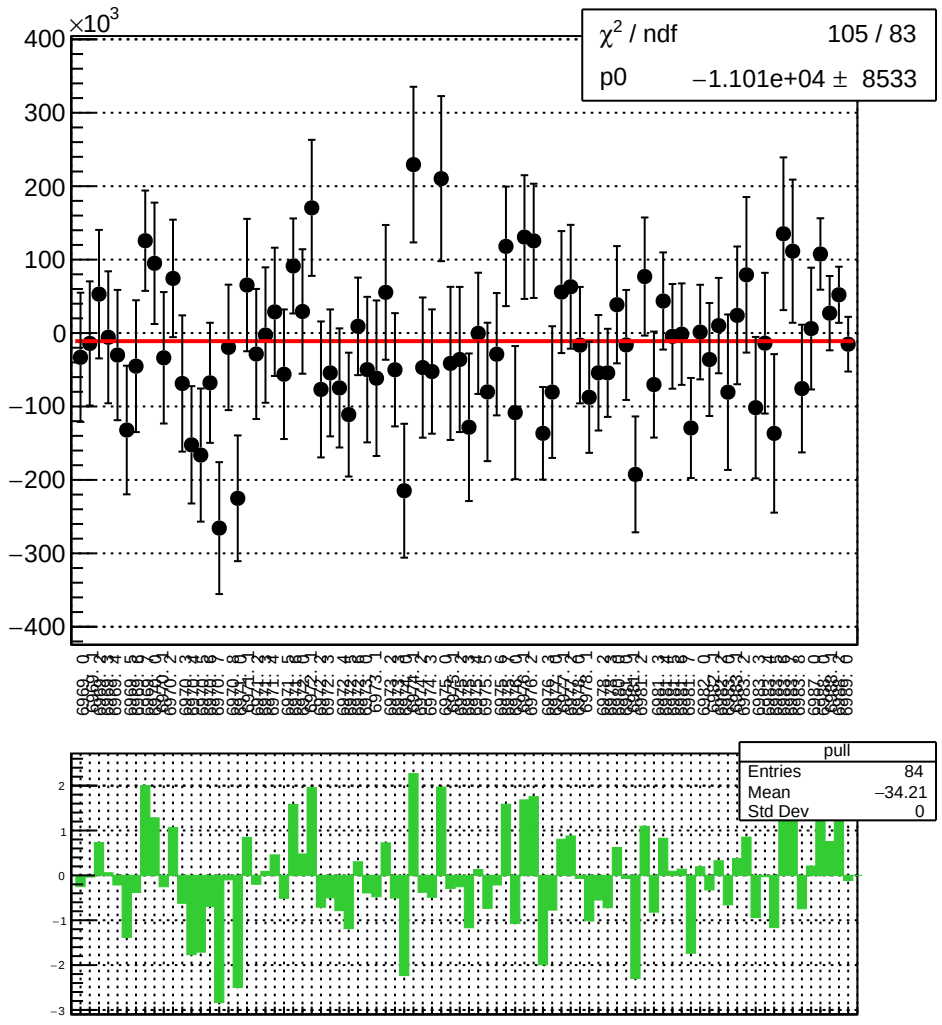

asym_usl_atl2_avg_cor_correction_mean vs run
χ² / ndf 105 / 83
p0 −1.101e+04 ± 8533
×10³
pull
Entries 84
Mean −34.21
Std Dev 0

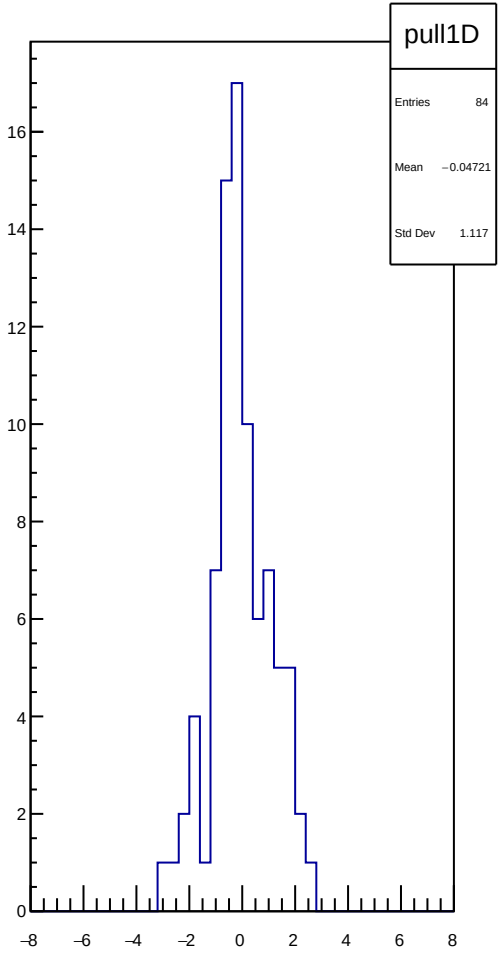

pull1D
Entries 84
Mean −0.04721
Std Dev 1.117

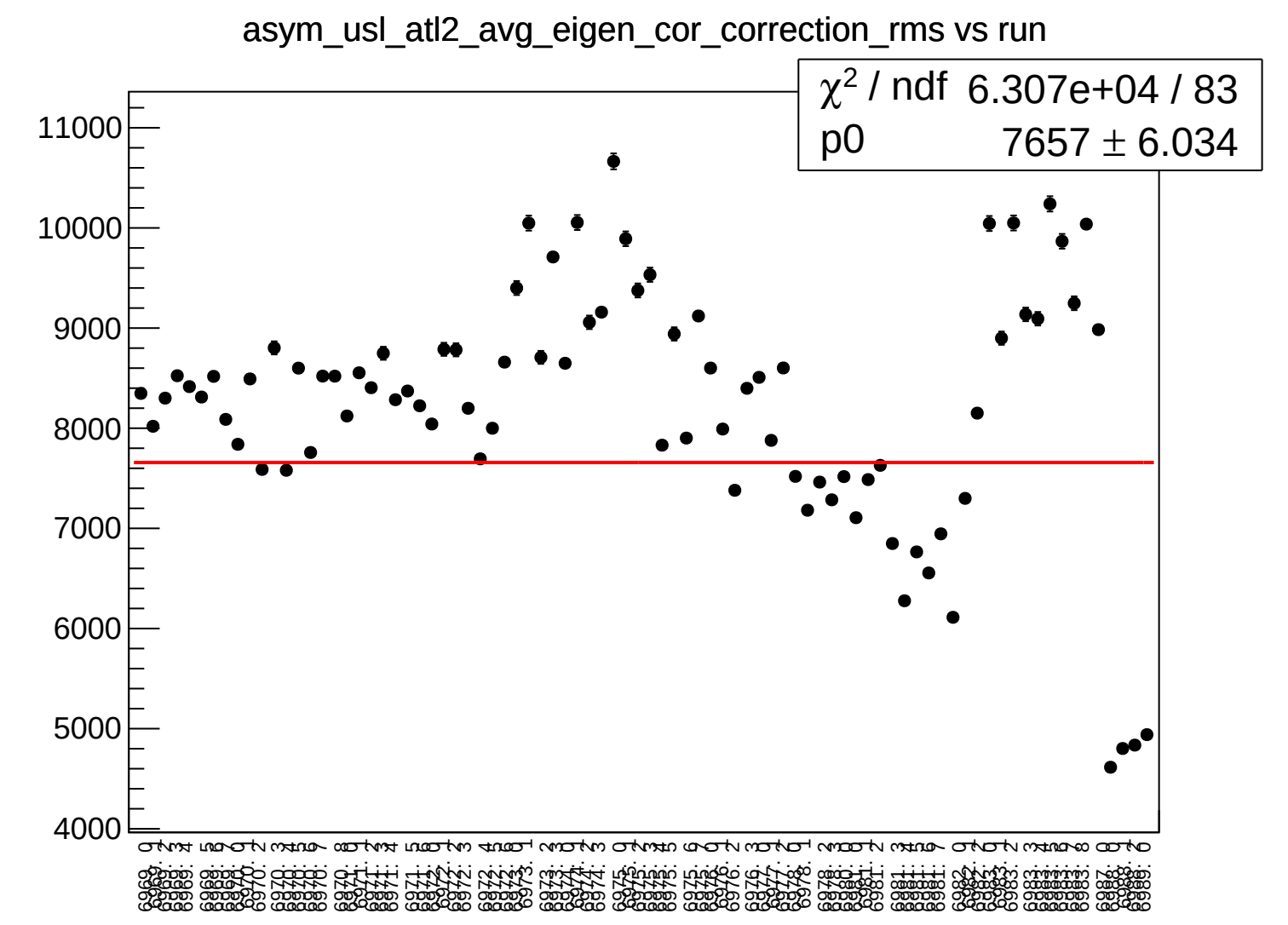

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 6.307e+04 / 83
p0 7657 ± 6.034
11000
10000
9000
8000
7000
6000
5000
4000

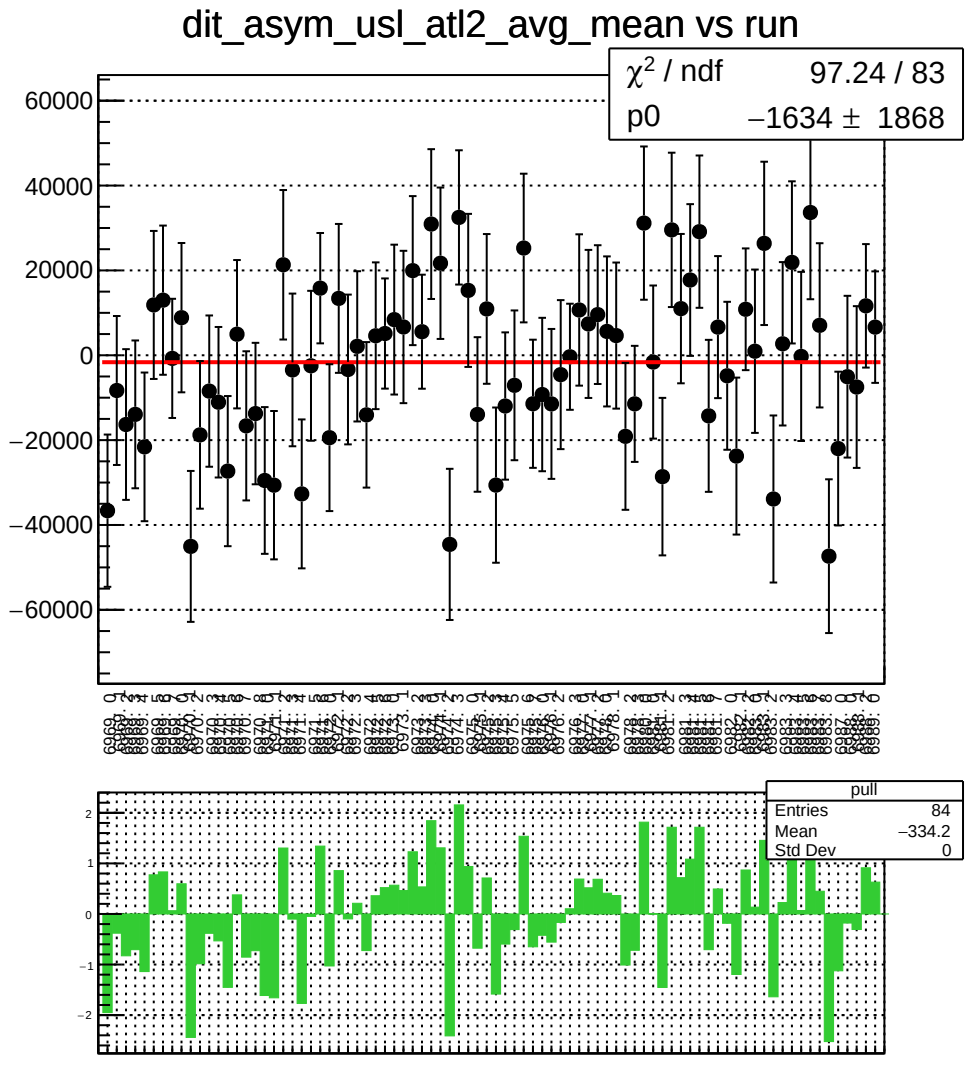

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 100.9 / 83
p0 −503.7 ± 1756
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −197.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.02053
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

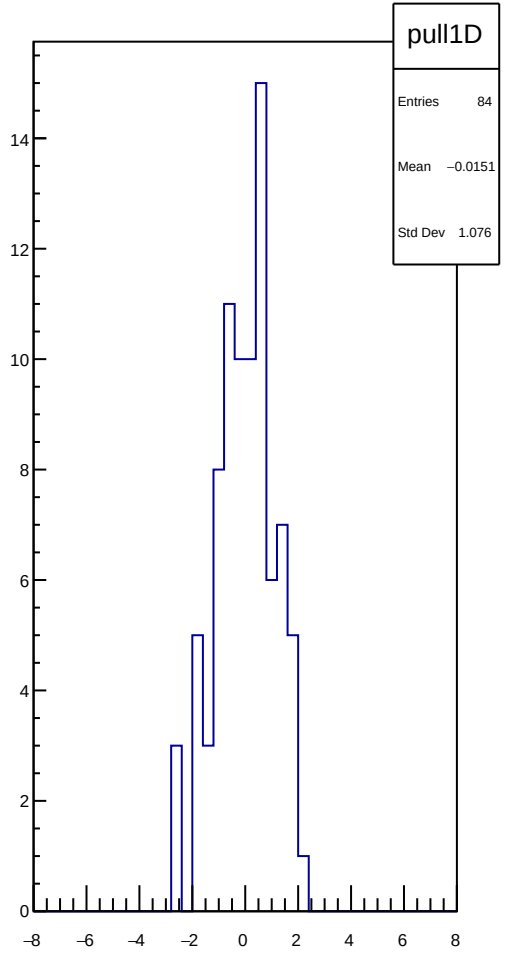

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 2283 / 83
p0 1605 ± 1.242
2000
1900
1800
1700
1600
1500

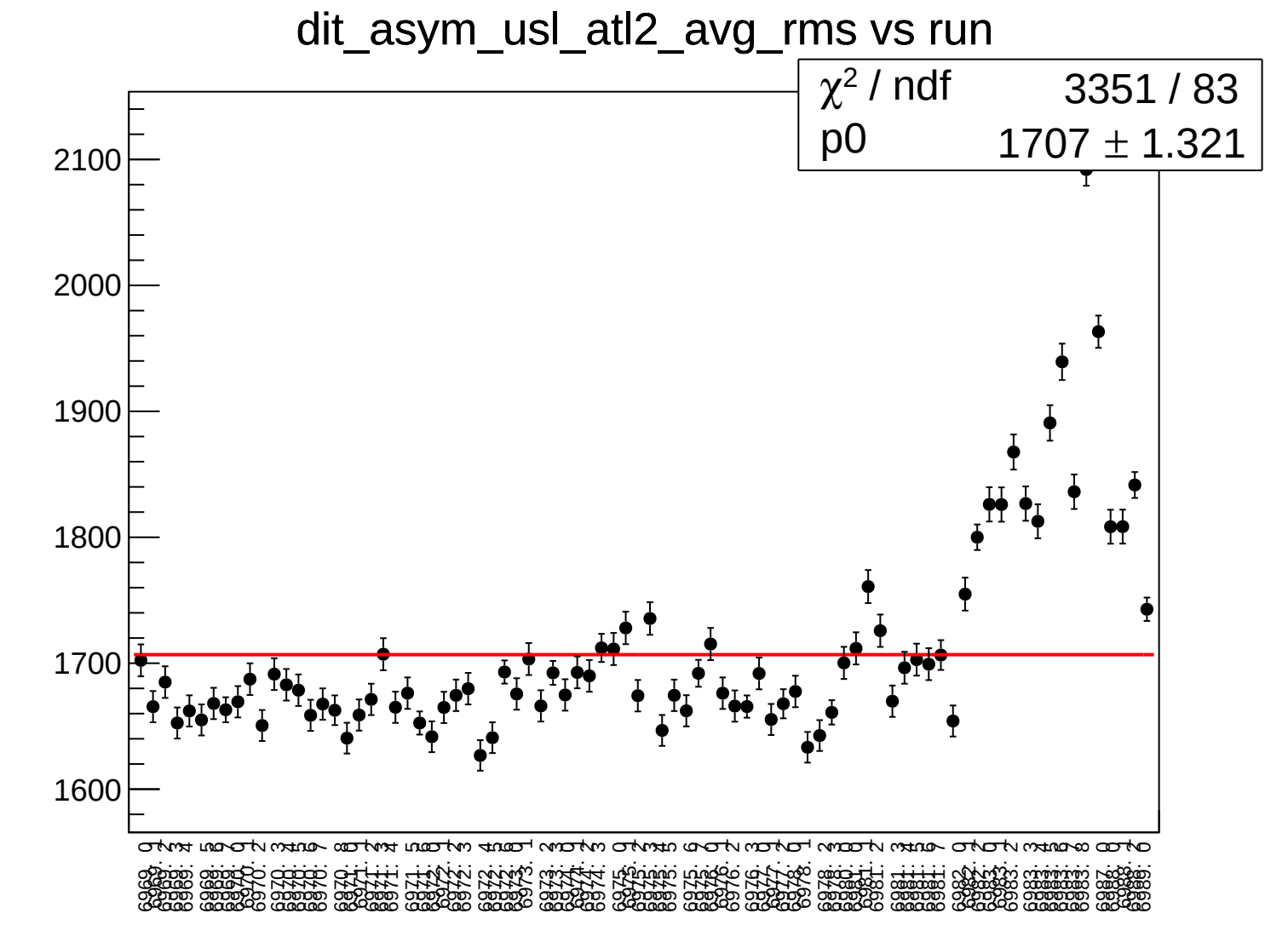

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 105 / 83
p0 −1.101e+04 ± 8533
pull
Entries 84
Mean −34.21
Std Dev 0

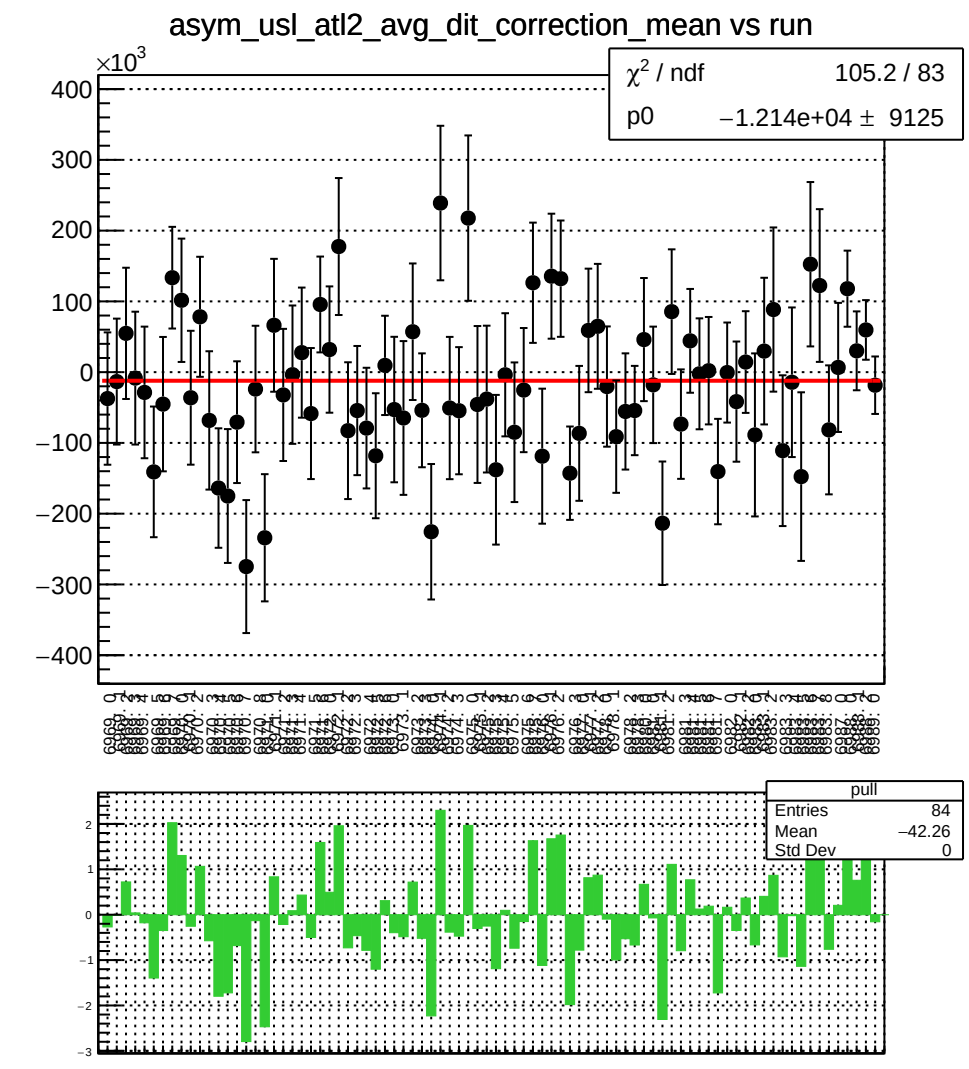

pull1D
Entries 84
Mean −0.04721
Std Dev 1.117

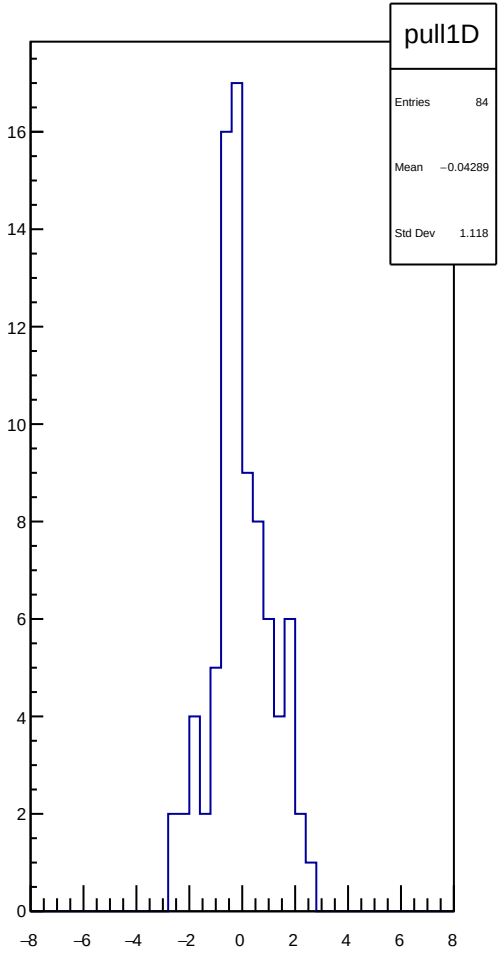

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.307e+04 / 83
p0 7657 ± 6.034
11000
10000
9000
8000
7000
6000
5000
4000

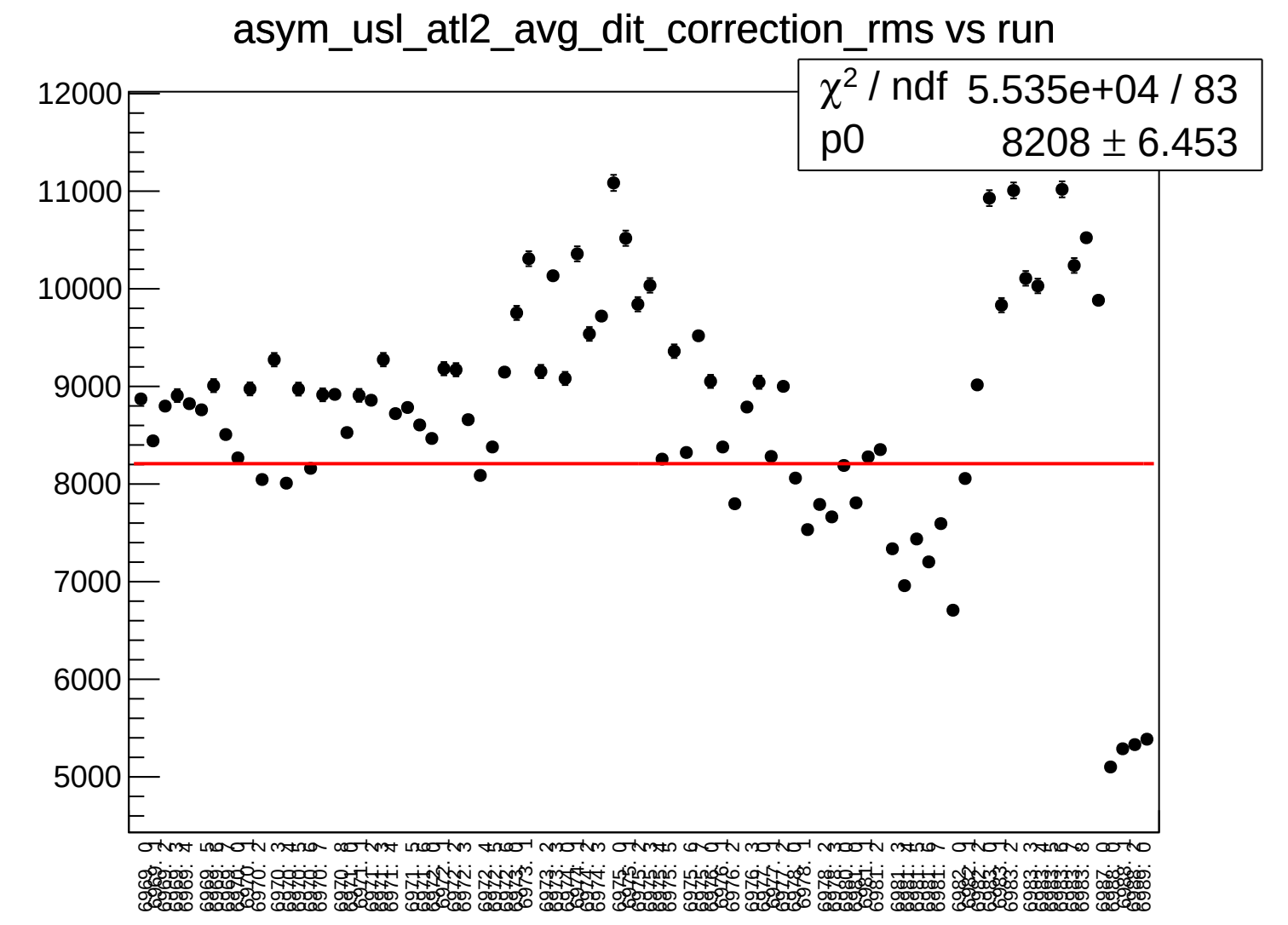

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 97.24 / 83
p0 −1634 ± 1868
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −334.2
Std Dev 0
2
1
0
−1
−2

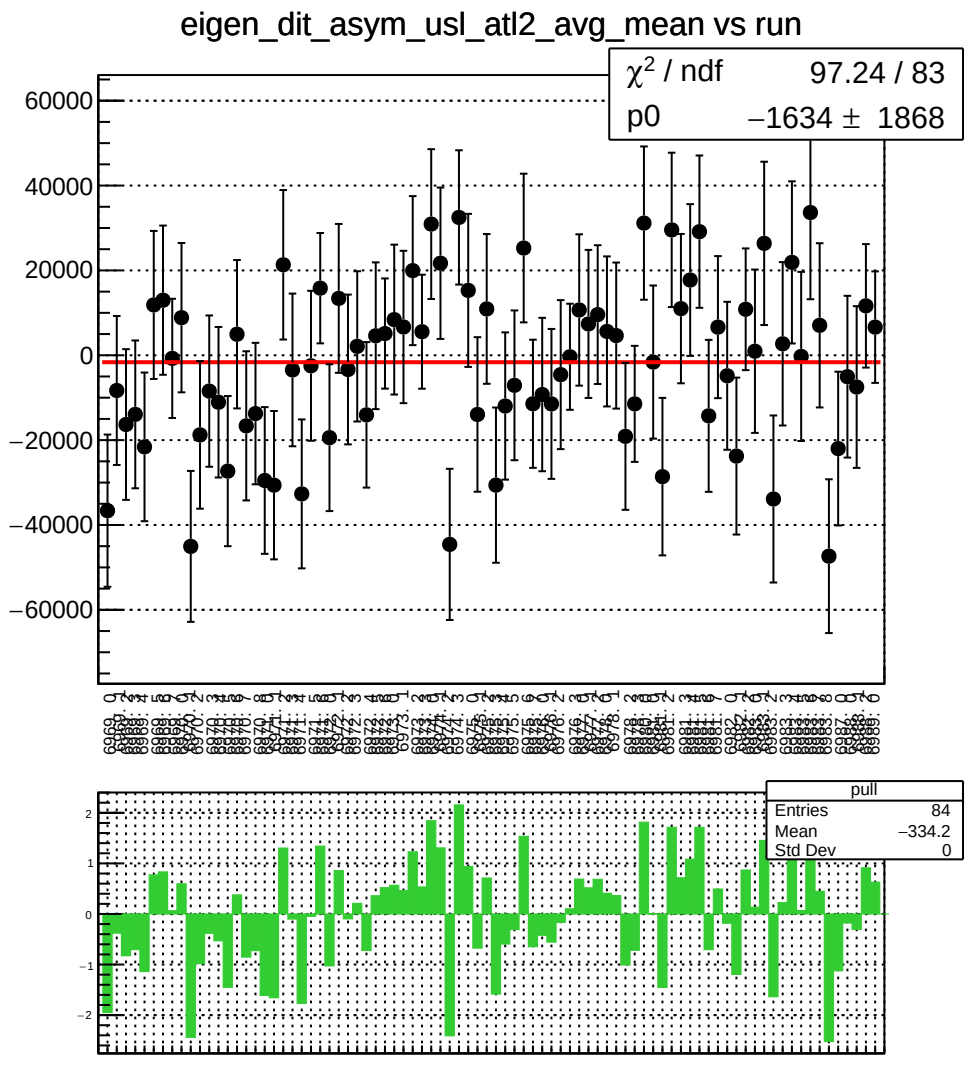

pull1D
Entries 84
Mean −0.0151
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

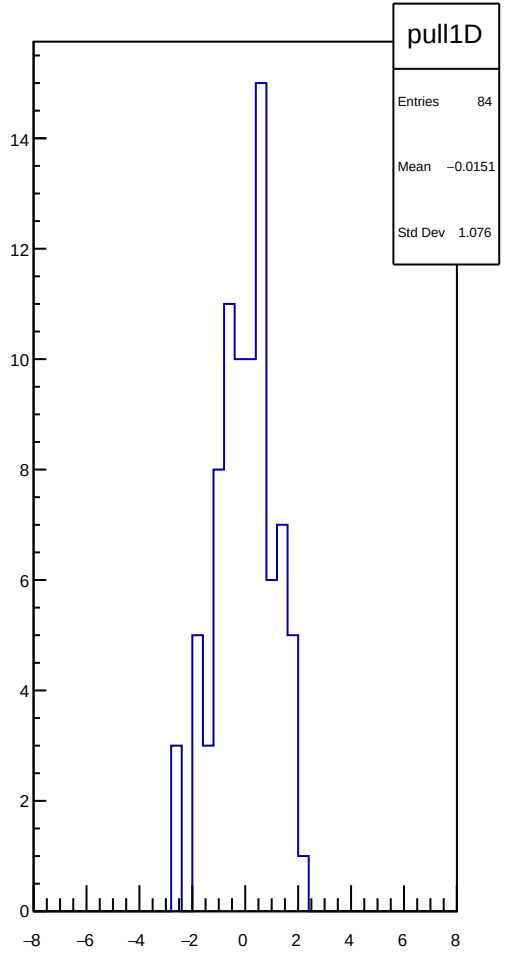

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 3351 / 83
p0 1707 ± 1.321
2100
2000
1900
1800
1700
1600

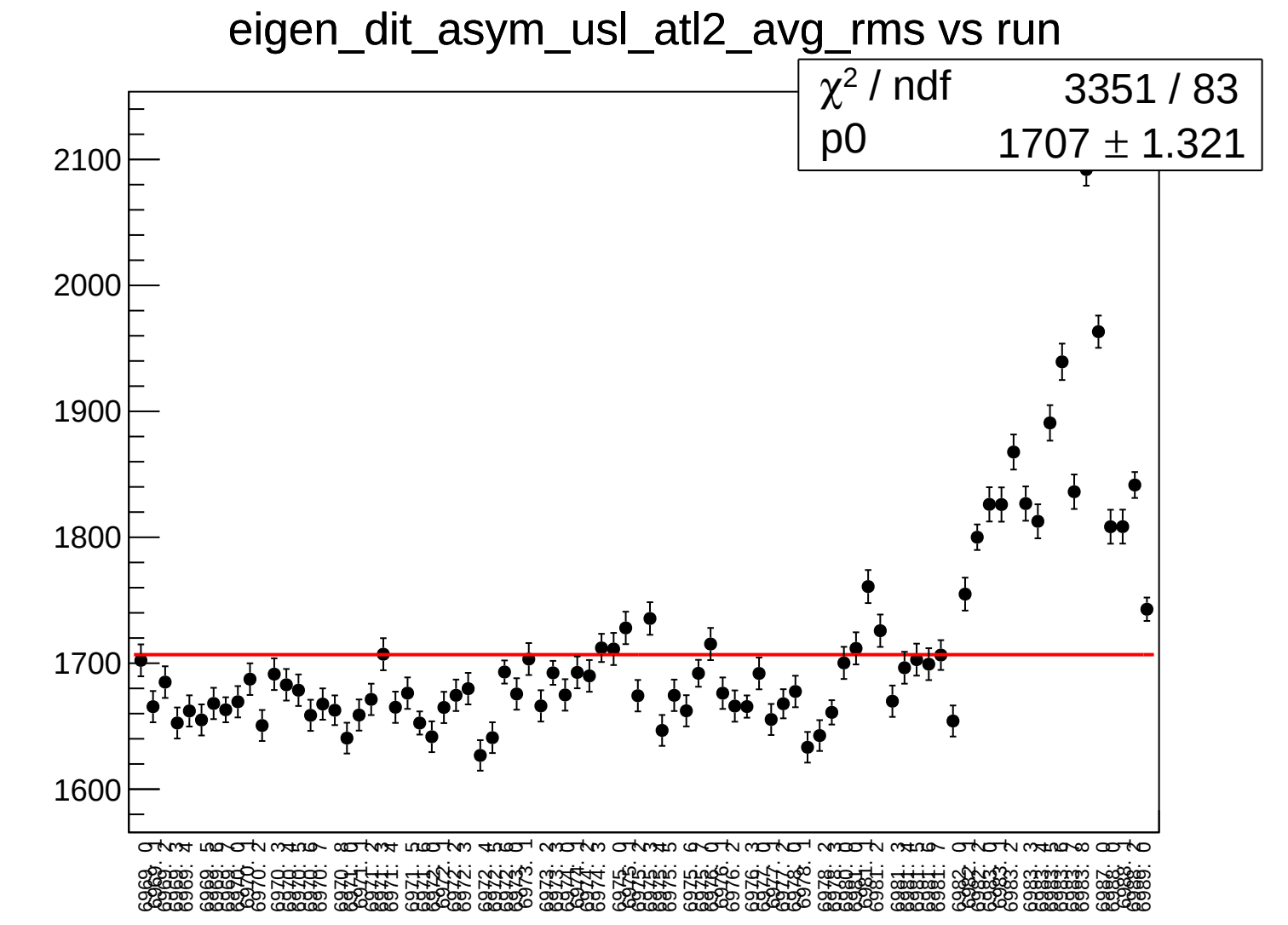

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 105.2 / 83
p0 −1.214e+04 ± 9125
pull
Entries 84
Mean −42.26
Std Dev 0

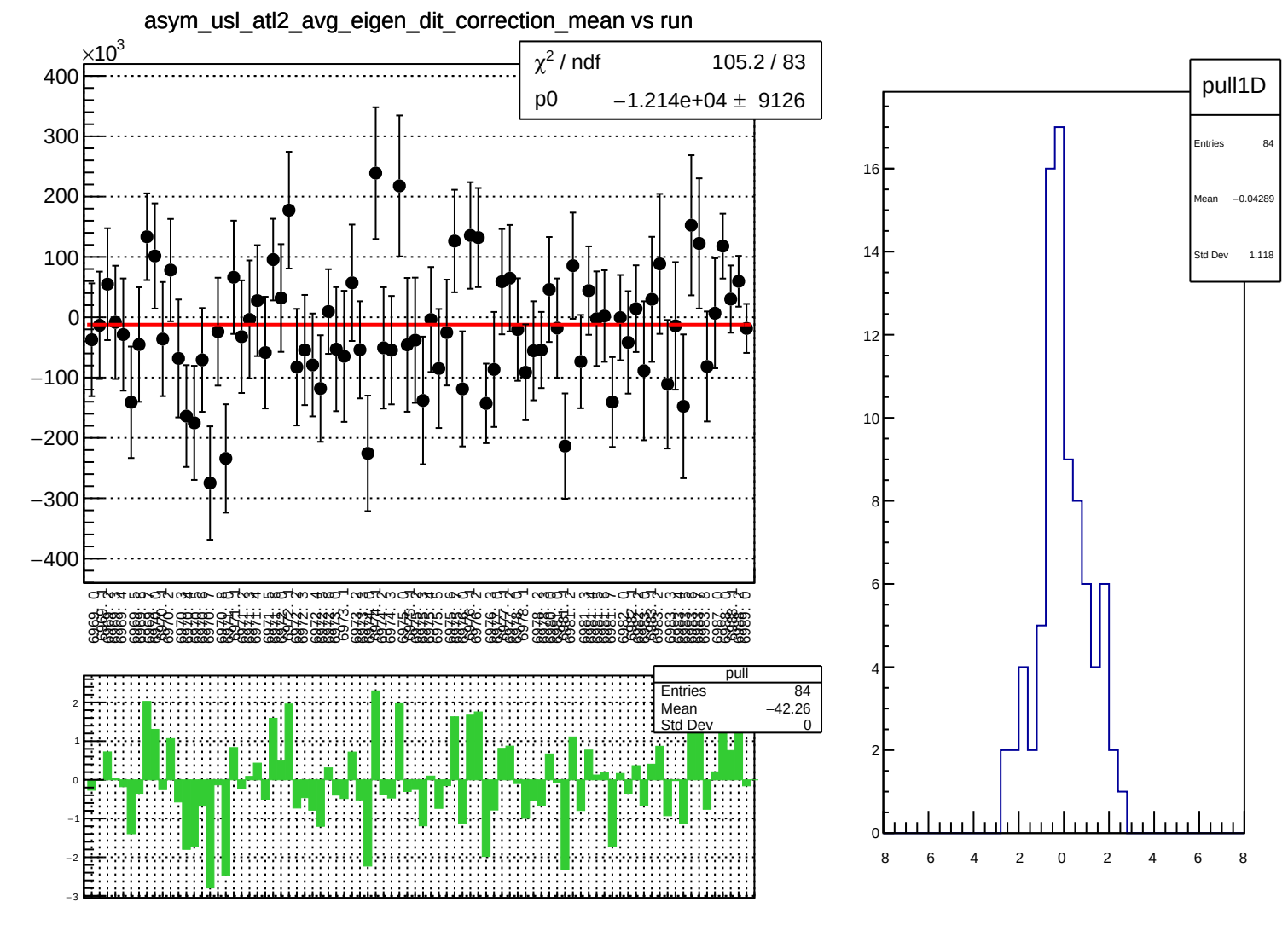

pull1D
Entries 84
Mean −0.04289
Std Dev 1.118

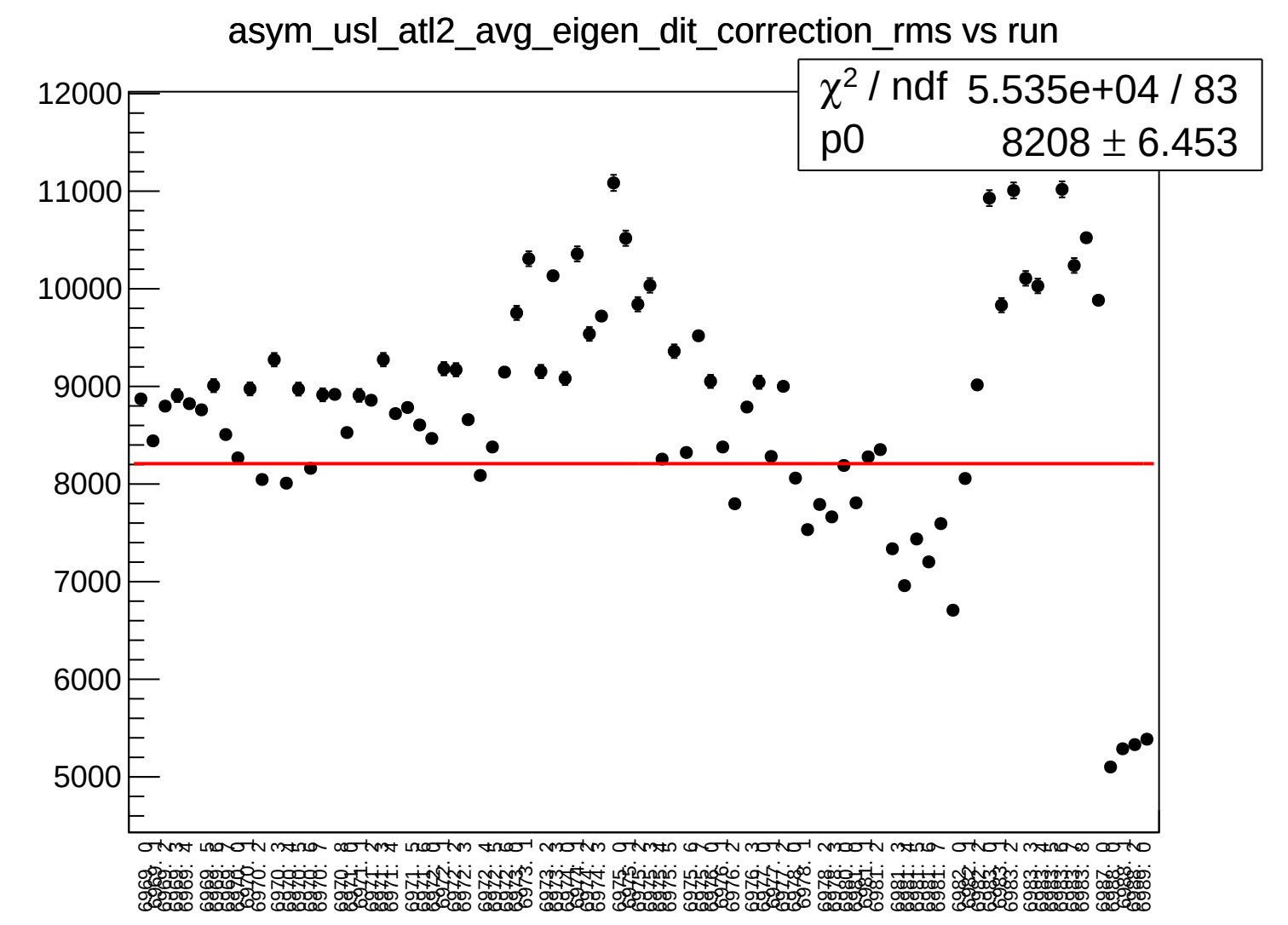

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 5.535e+04 / 83
p0 8208 ± 6.453
12000
11000
10000
9000
8000
7000
6000
5000

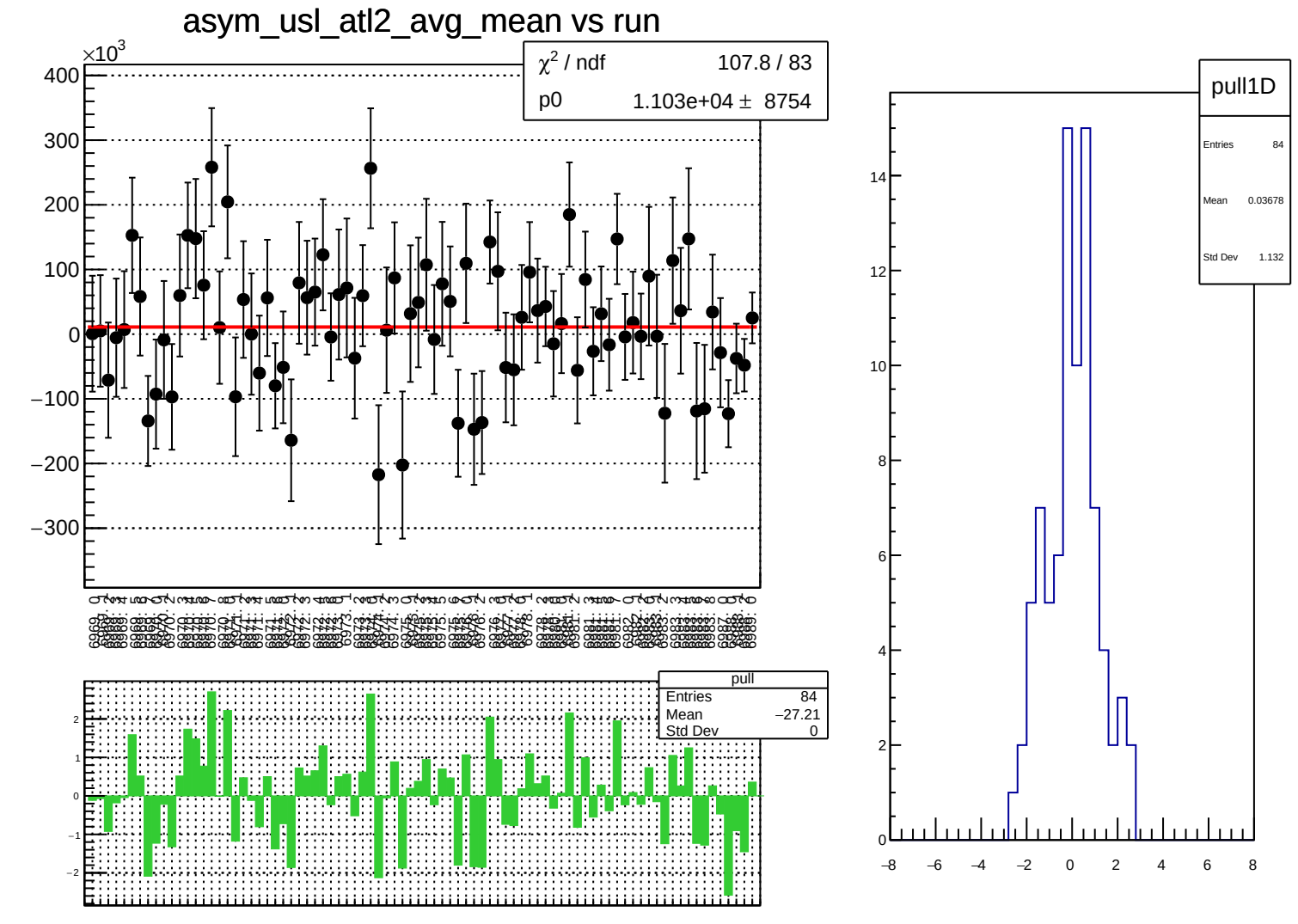

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 97.24 / 83
p0 −1634 ± 1868
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −334.2
Std Dev 0
2
1
0
−1
−2

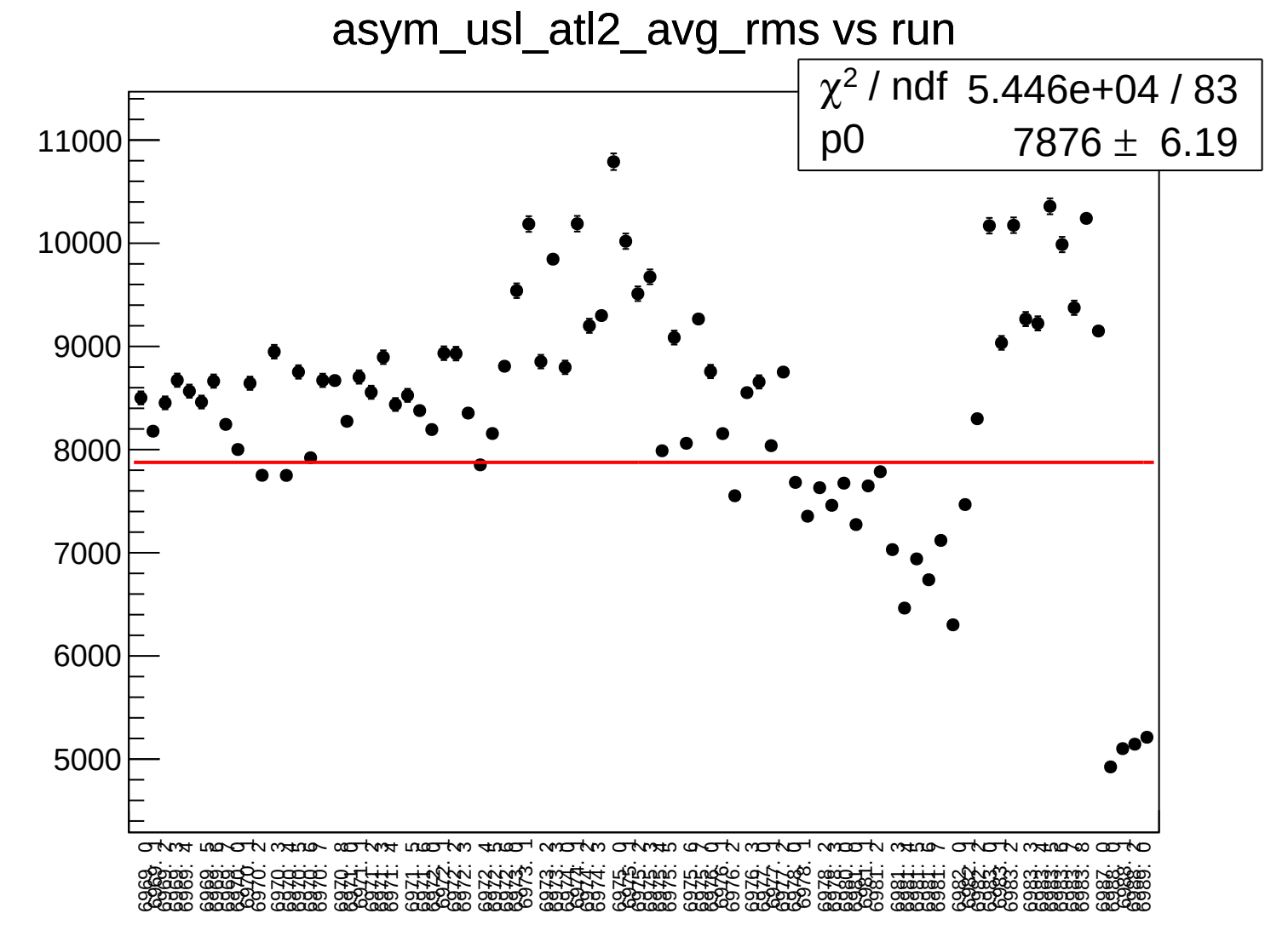

pull1D
Entries 84
Mean −0.0151
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

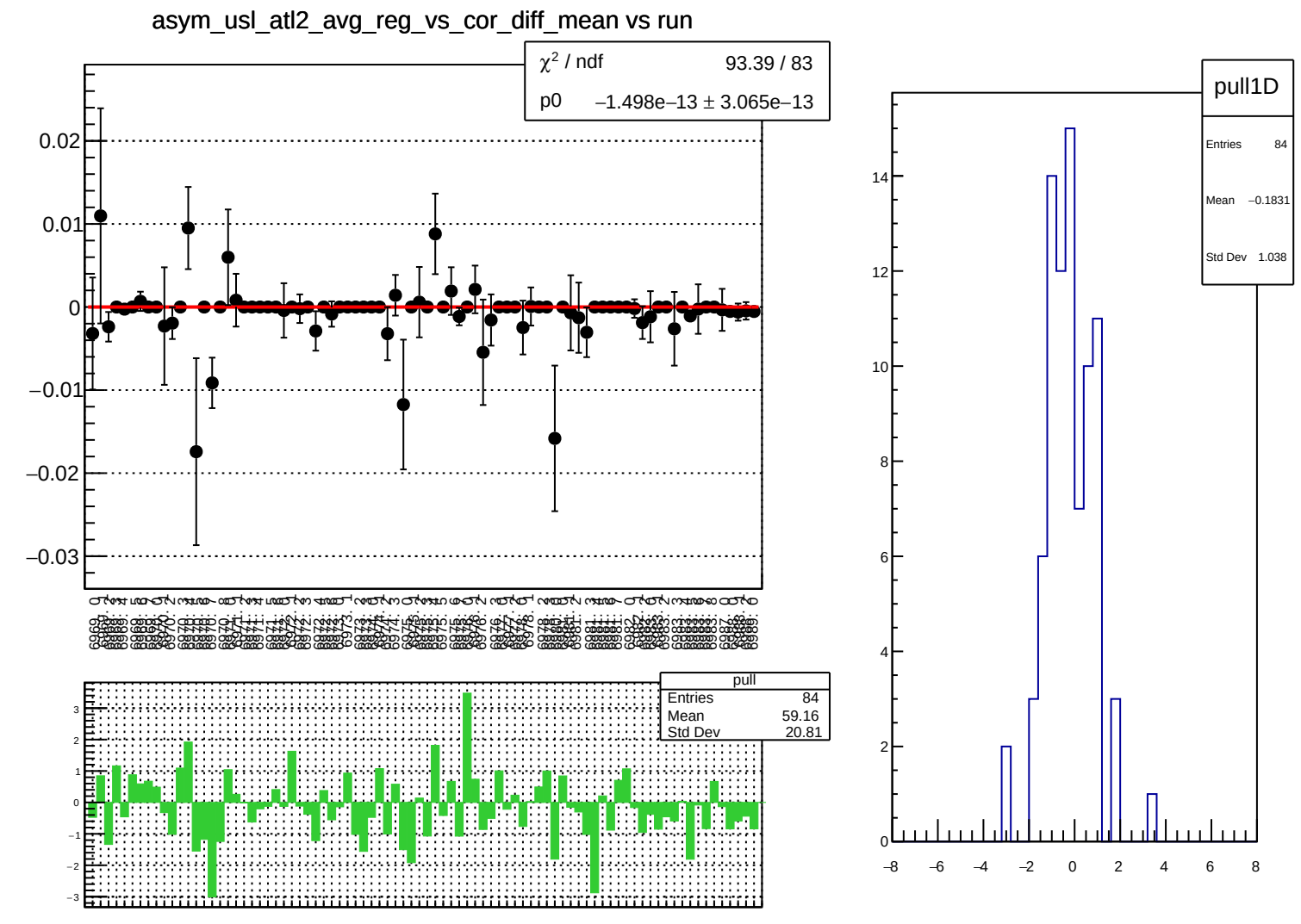

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 3351 / 83
p0 1707 ± 1.321
2100
2000
1900
1800
1700
1600

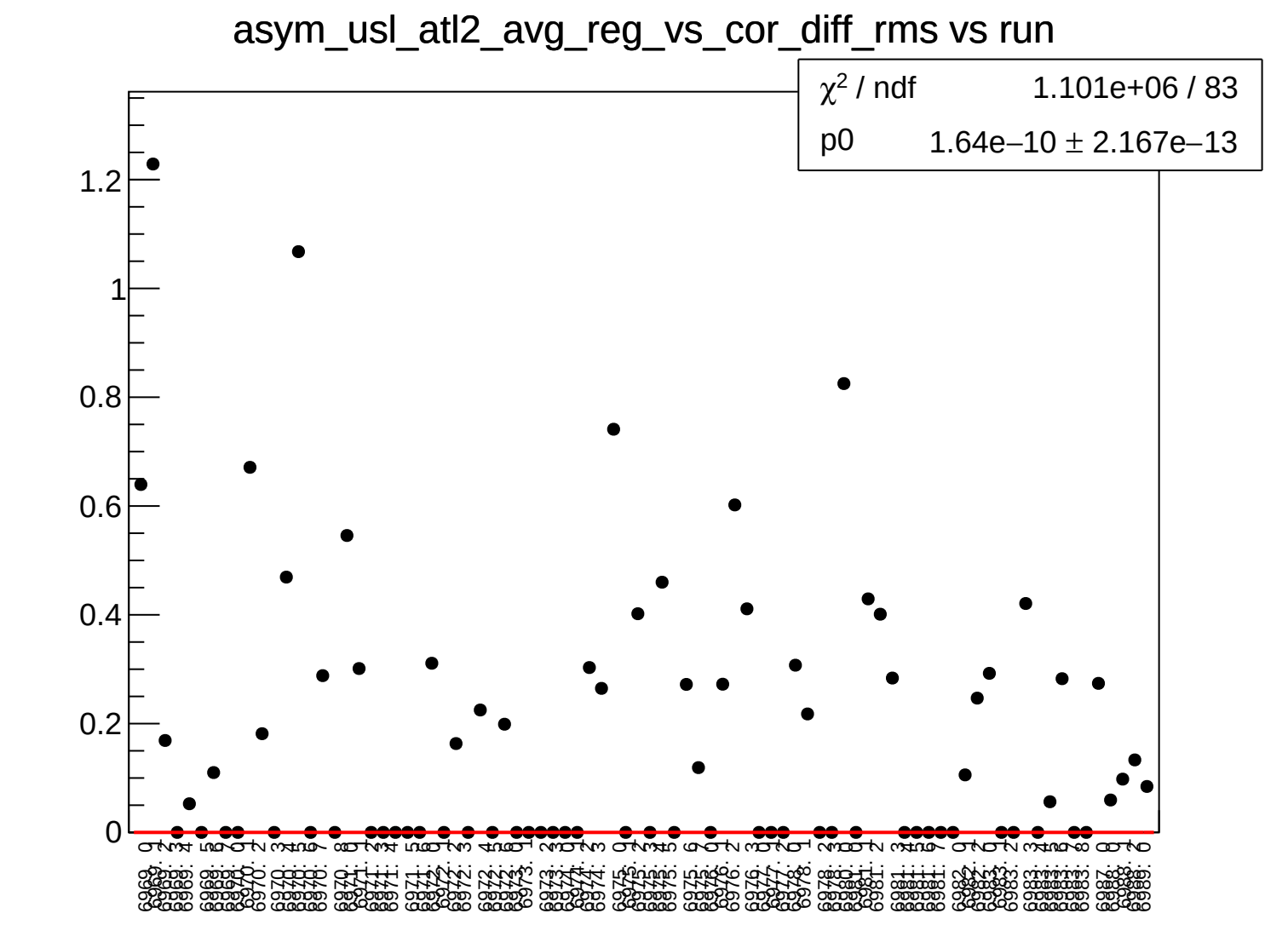

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 105.2 / 83
p0 −1.214e+04 ± 9126
pull
Entries 84
Mean −42.26
Std Dev 0
pull1D
Entries 84
Mean −0.04289
Std Dev 1.118

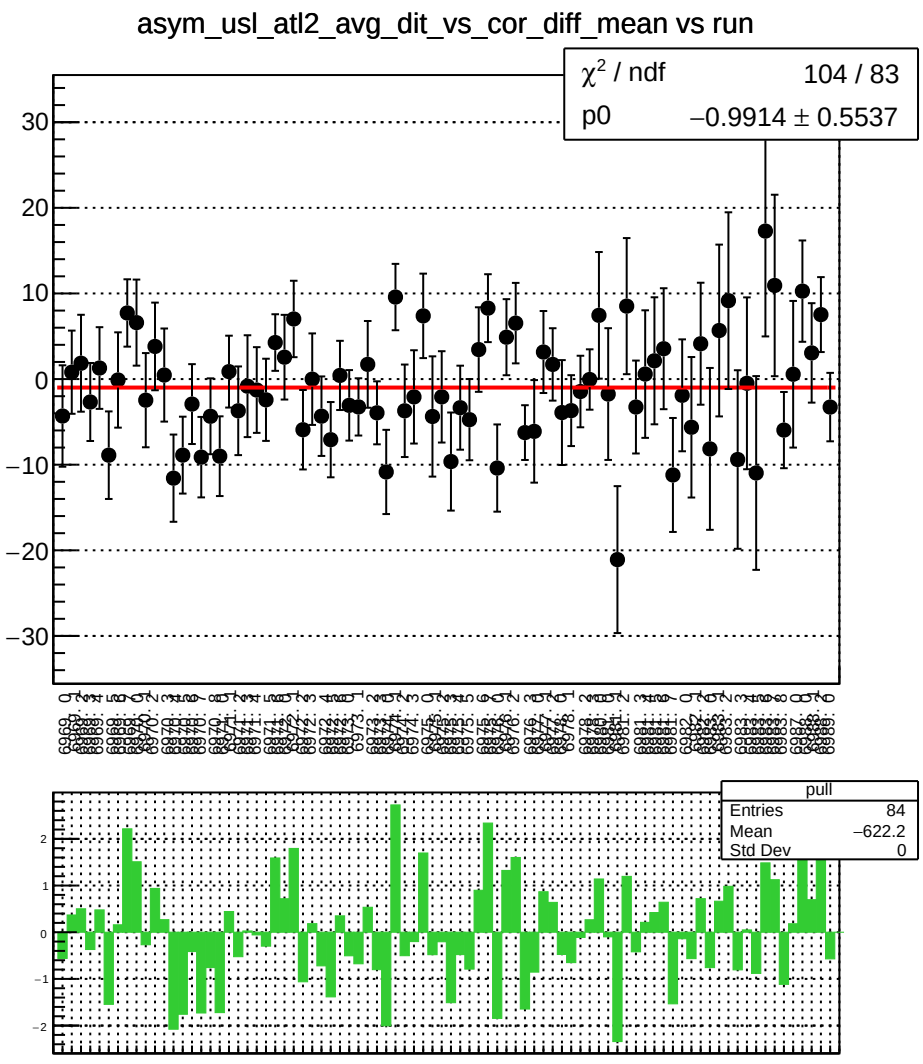

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.535e+04 / 83
p0 8208 ± 6.453
12000
11000
10000
9000
8000
7000
6000
5000

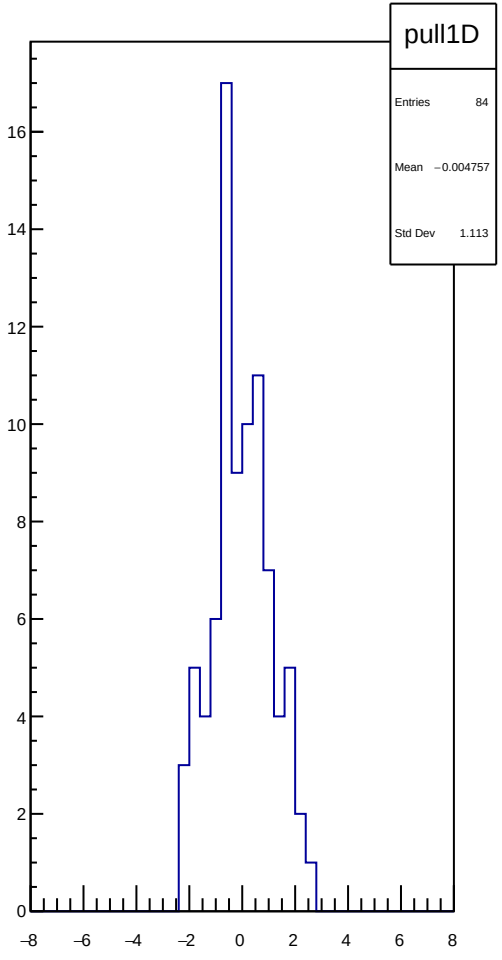

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 107.8 / 83
p0 1.103e+04 ± 8754
pull
Entries 84
Mean −27.21
Std Dev 0
pull1D
Entries 84
Mean 0.03678
Std Dev 1.132

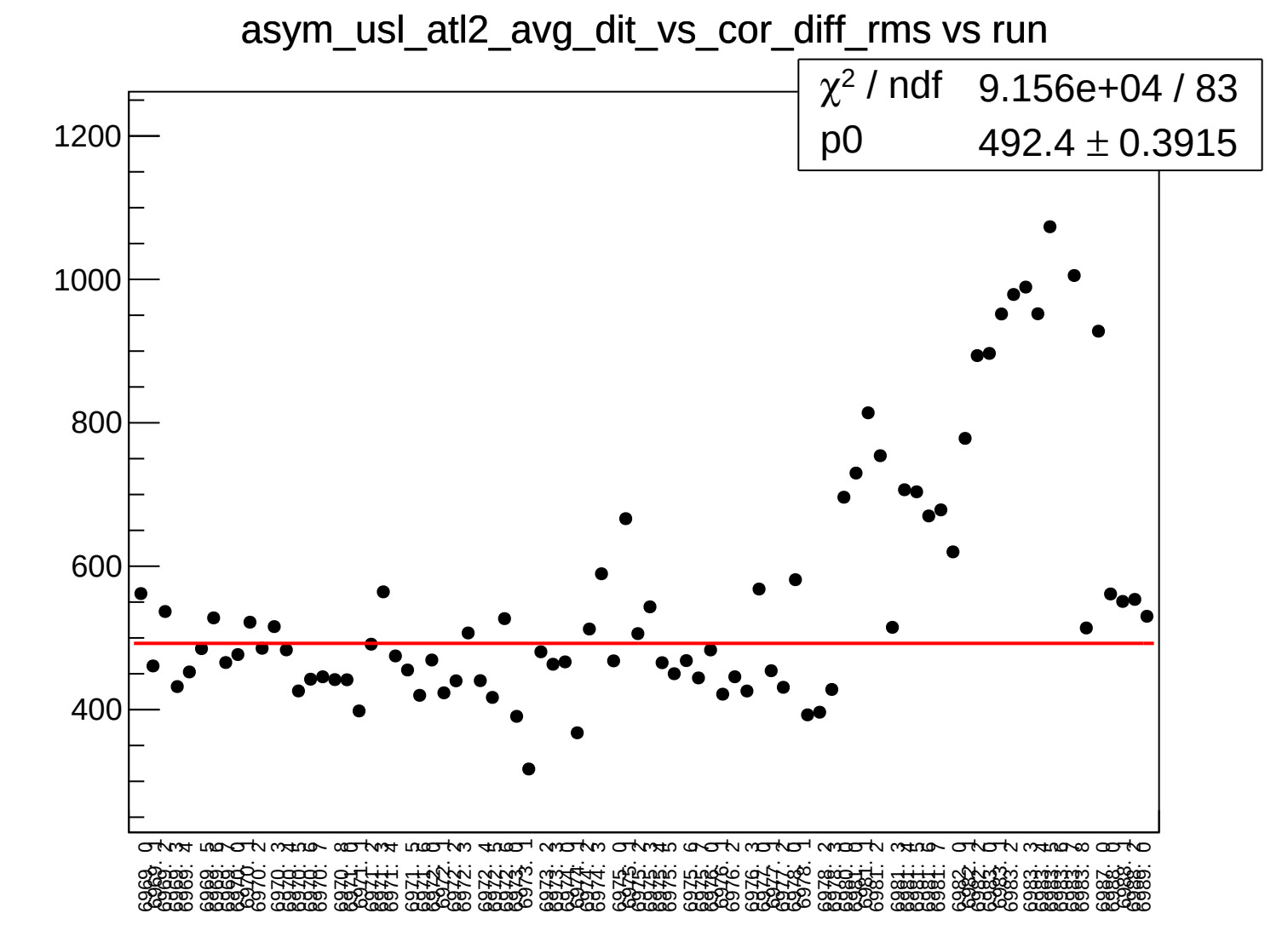

asym_usl_atl2_avg_rms vs run
χ² / ndf 5.446e+04 / 83
p0 7876 ± 6.19
11000
10000
9000
8000
7000
6000
5000

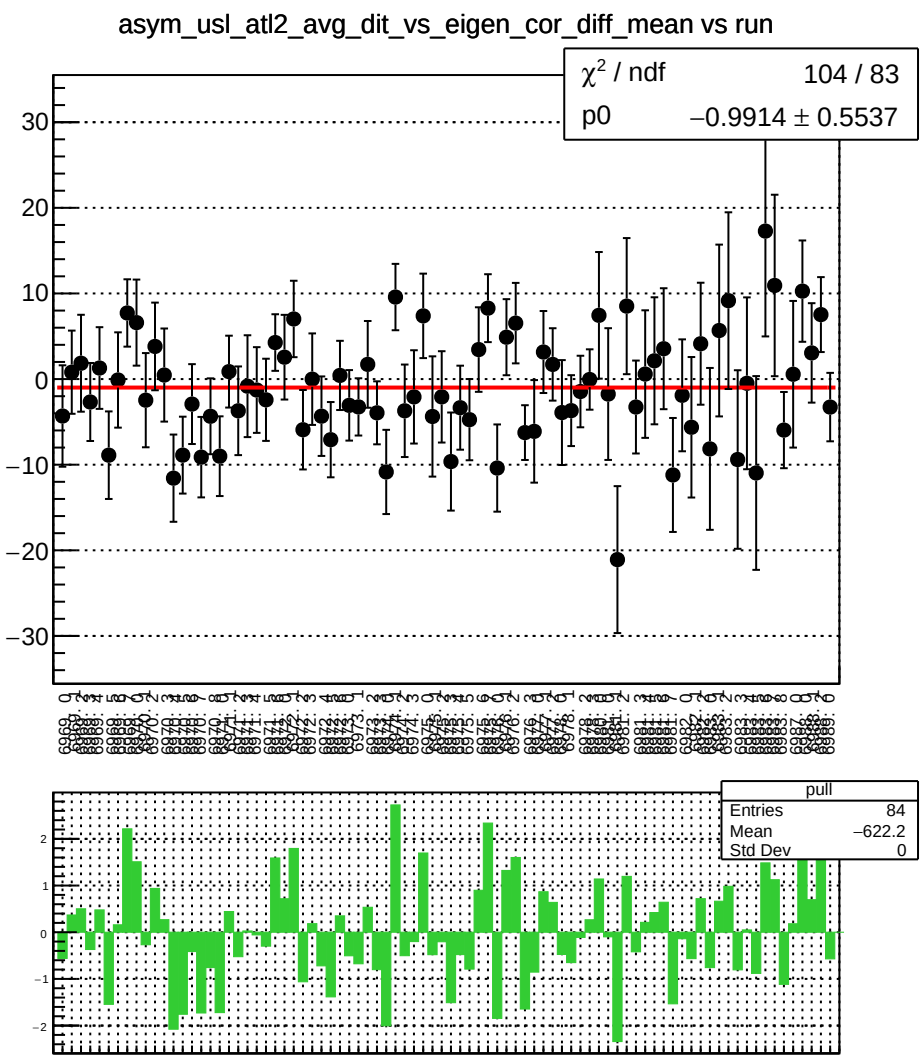

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.39 / 83
p0 −1.498e−13 ± 3.065e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 59.16
Std Dev 20.81
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.1831
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

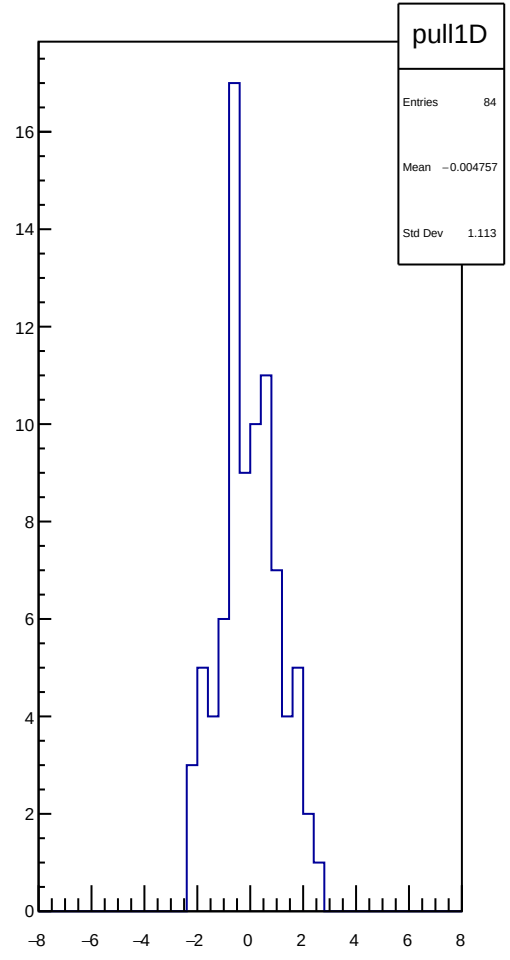

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.101e+06 / 83
p0 1.64e−10 ± 2.167e−13
1.2
1
0.8
0.6
0.4
0.2
0

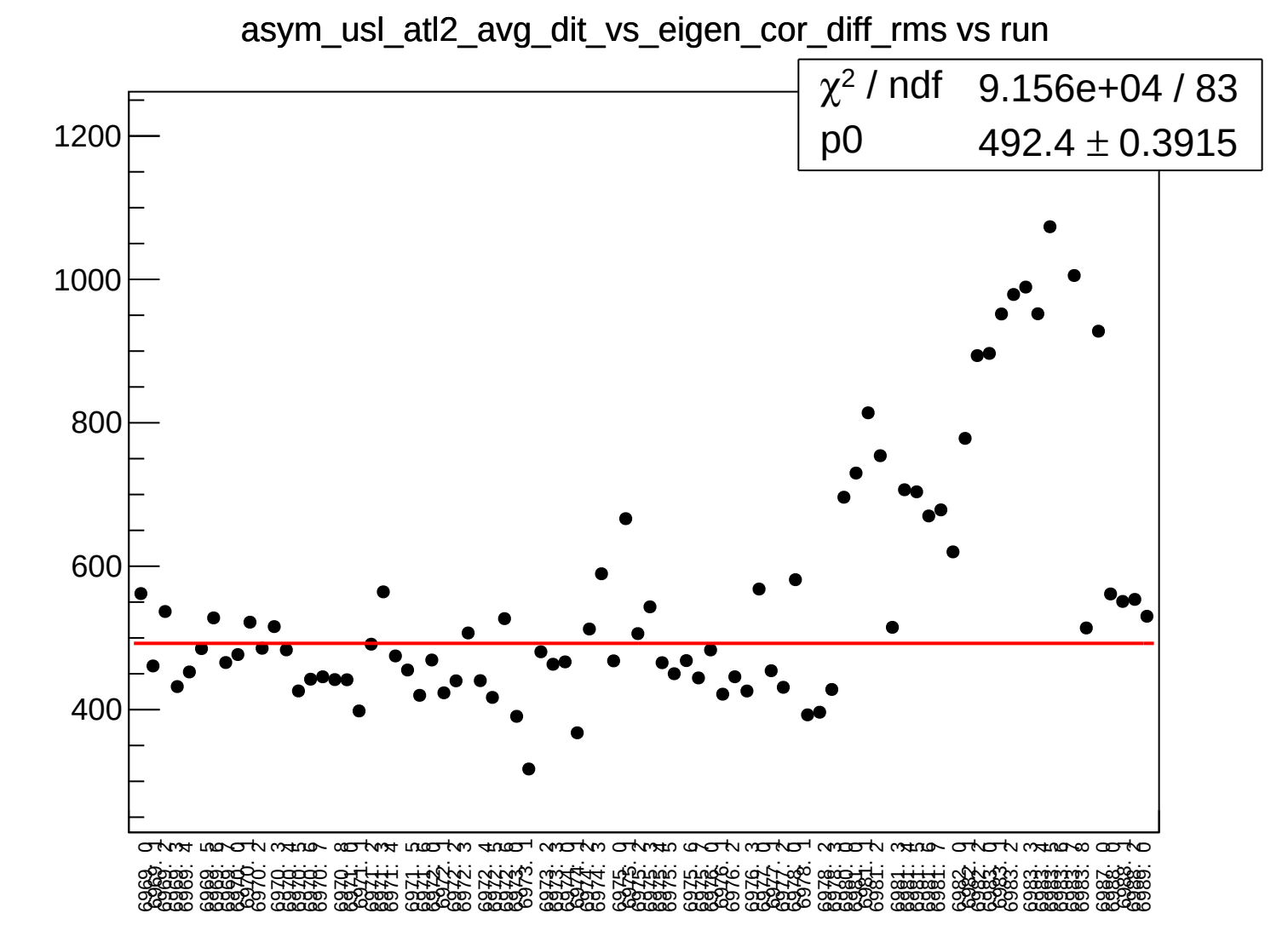

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104 / 83
p0 −0.9914 ± 0.5537
pull
Entries 84
Mean −622.2
Std Dev 0

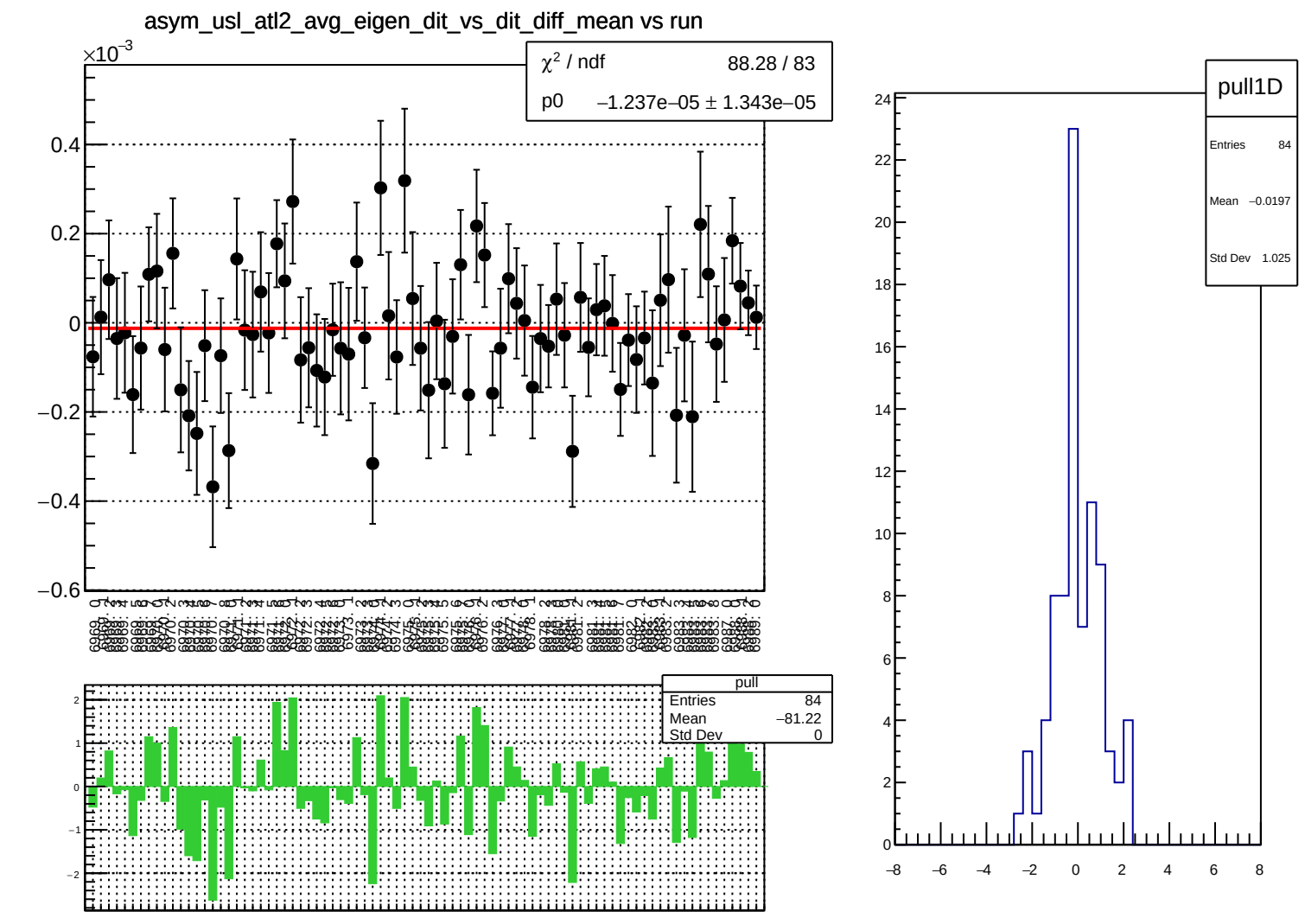

pull1D
Entries 84
Mean −0.004757
Std Dev 1.113

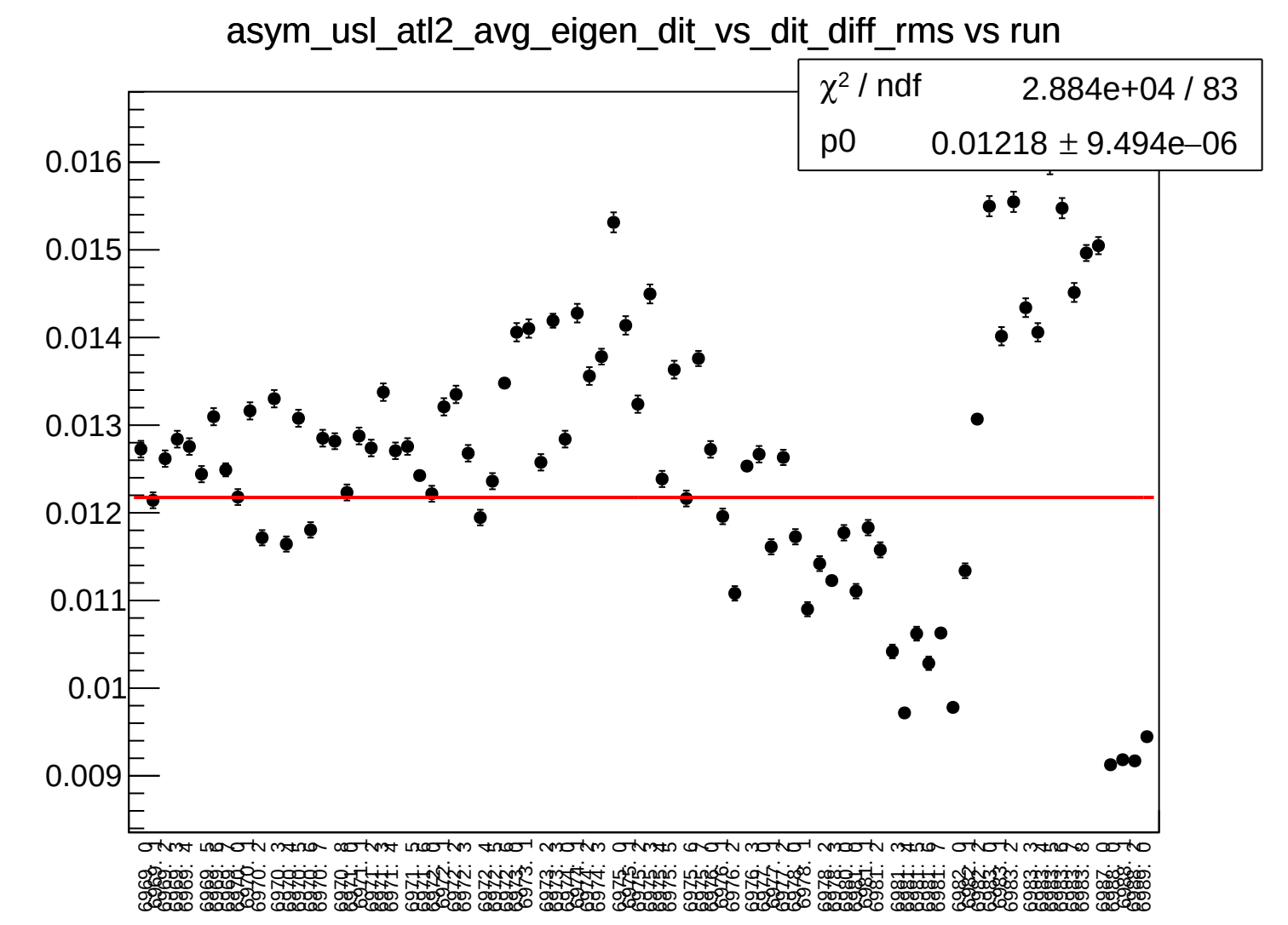

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.156e+04 / 83
p0 492.4 ± 0.3915
1200
1000
800
600
400

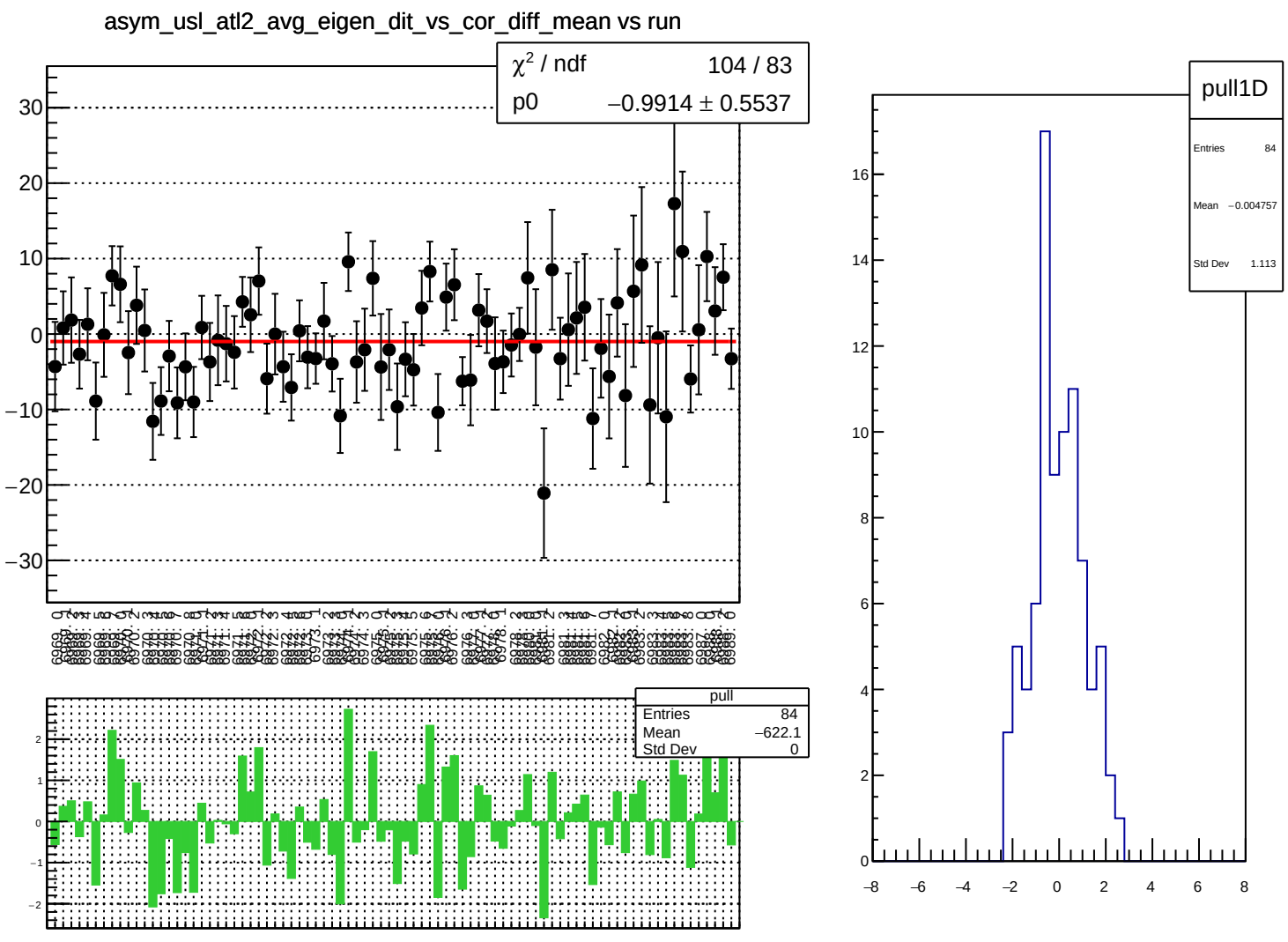

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104 / 83
p0 −0.9914 ± 0.5537
pull
Entries 84
Mean −622.2
Std Dev 0

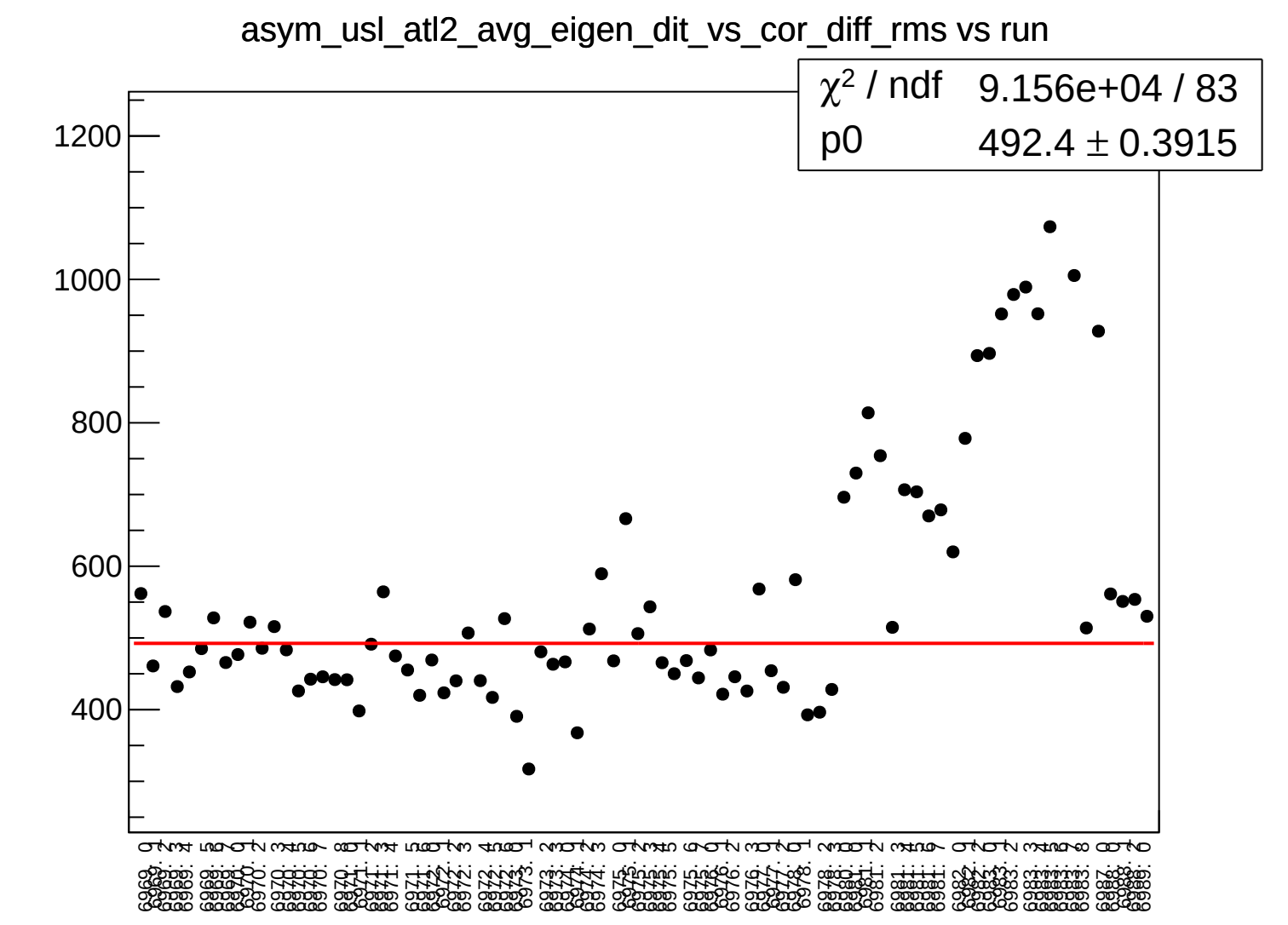

pull1D
Entries 84
Mean −0.004757
Std Dev 1.113

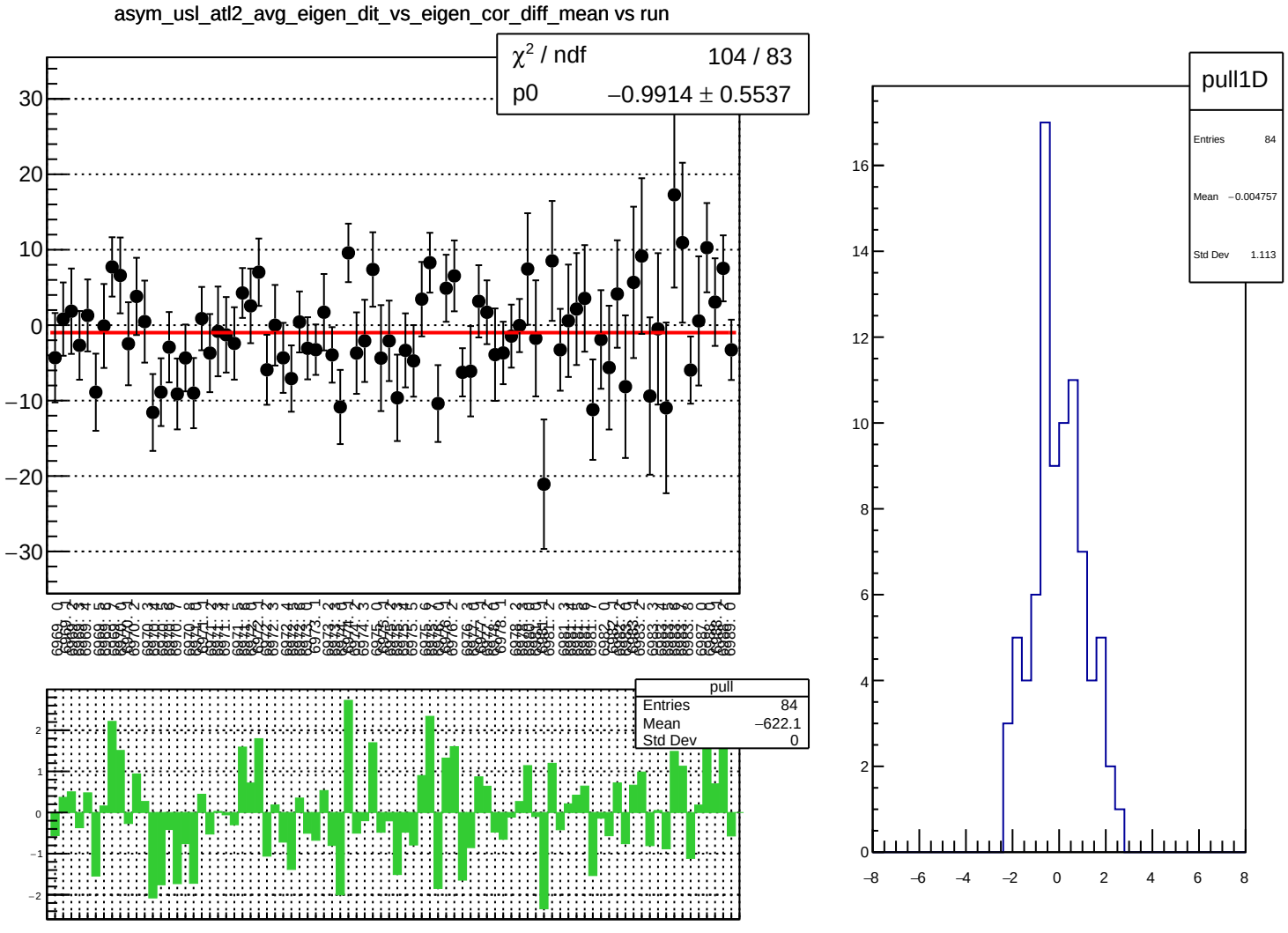

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.156e+04 / 83
p0 492.4 ± 0.3915
1200
1000
800
600
400

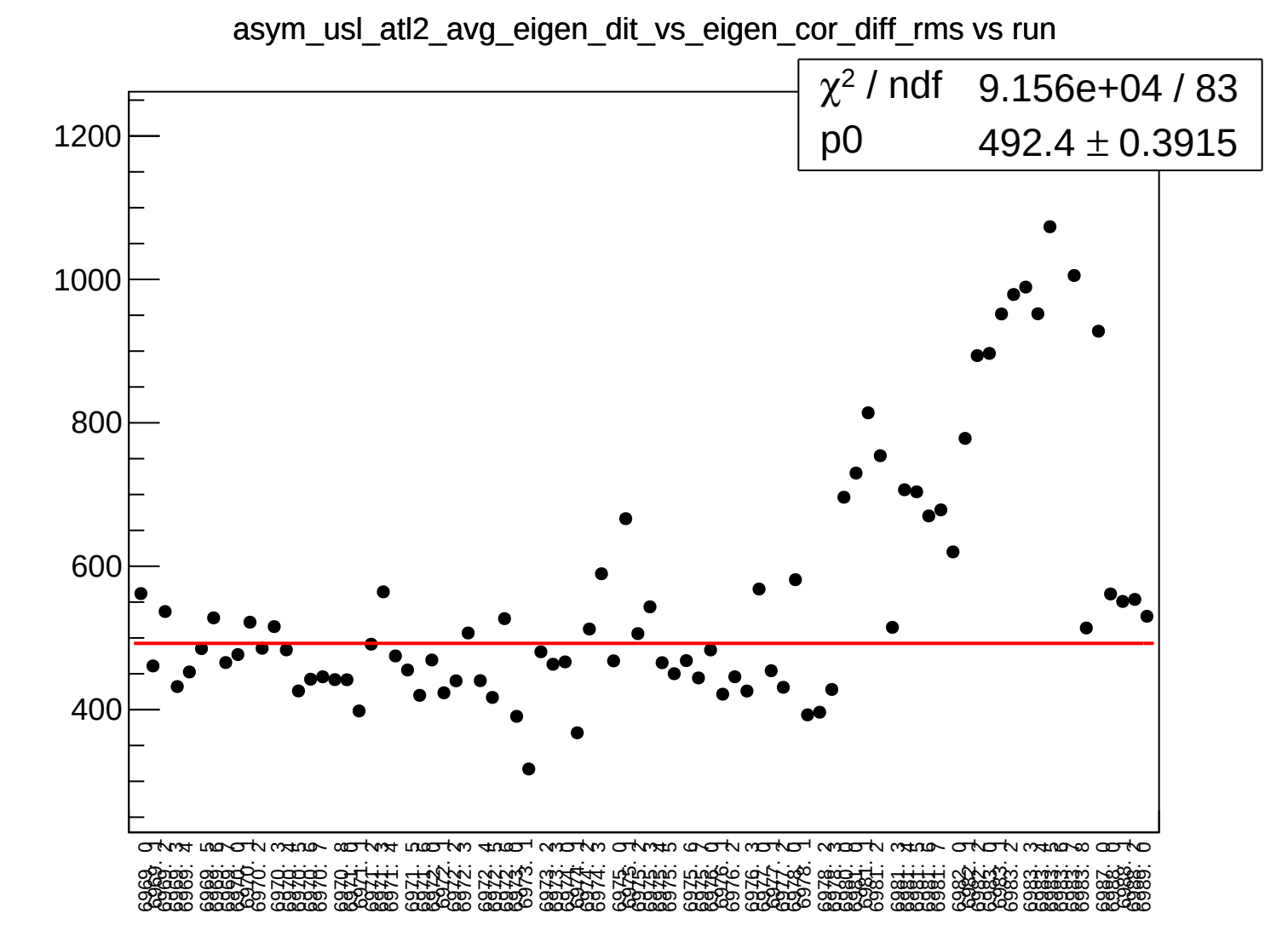

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.28 / 83
p0 −1.237e−05 ± 1.343e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 84
Mean −81.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.0197
Std Dev 1.025
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

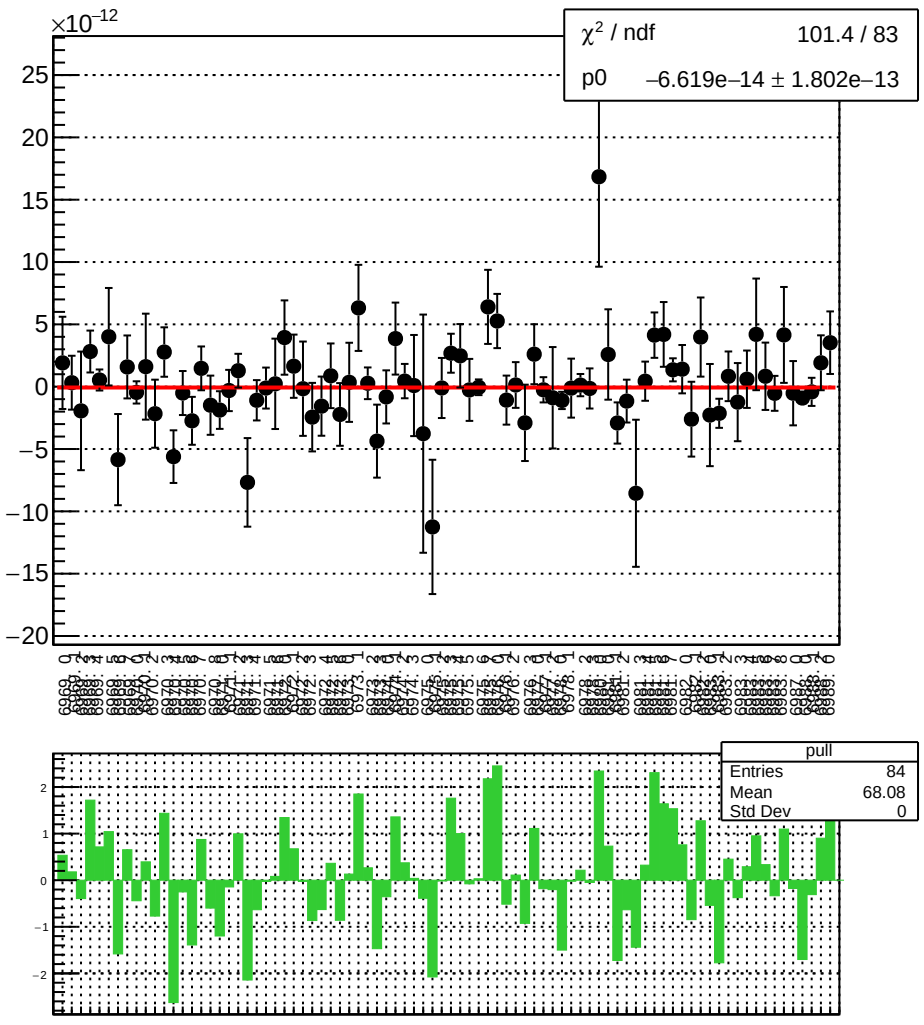

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.884e+04 / 83
p0 0.01218 ± 9.494e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

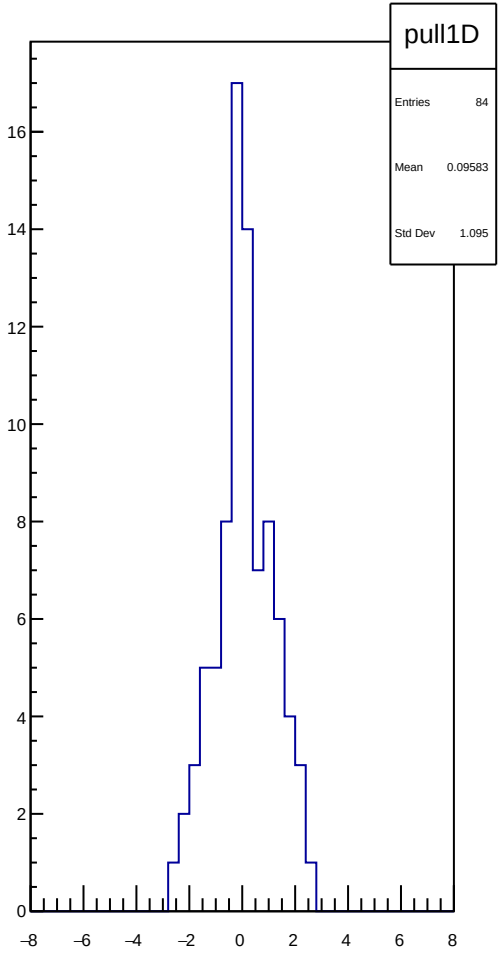

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104 / 83
p0 −0.9914 ± 0.5537
pull
Entries 84
Mean −622.1
Std Dev 0
pull1D
Entries 84
Mean −0.004757
Std Dev 1.113

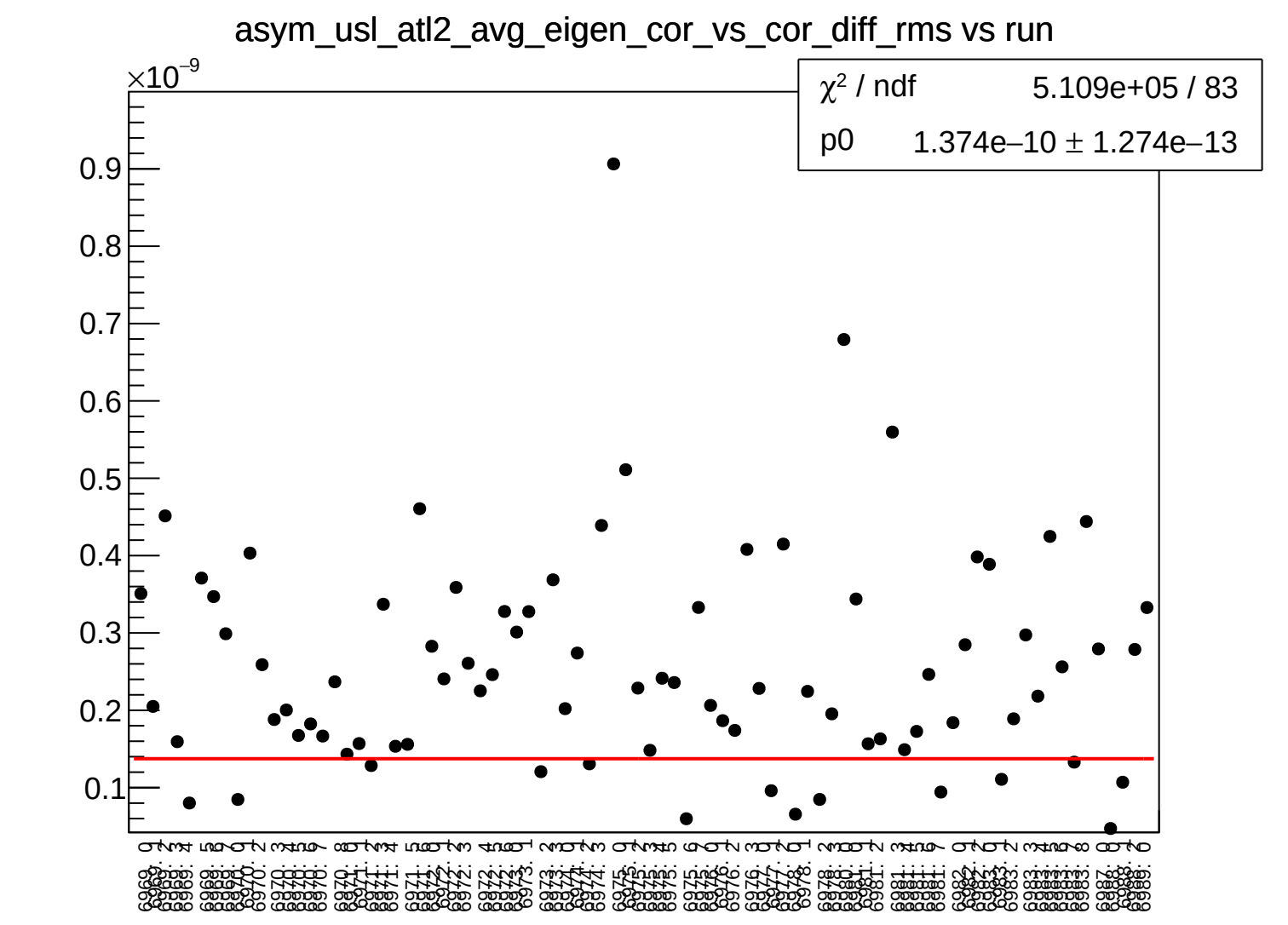

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.156e+04 / 83
p0 492.4 ± 0.3915
1200
1000
800
600
400

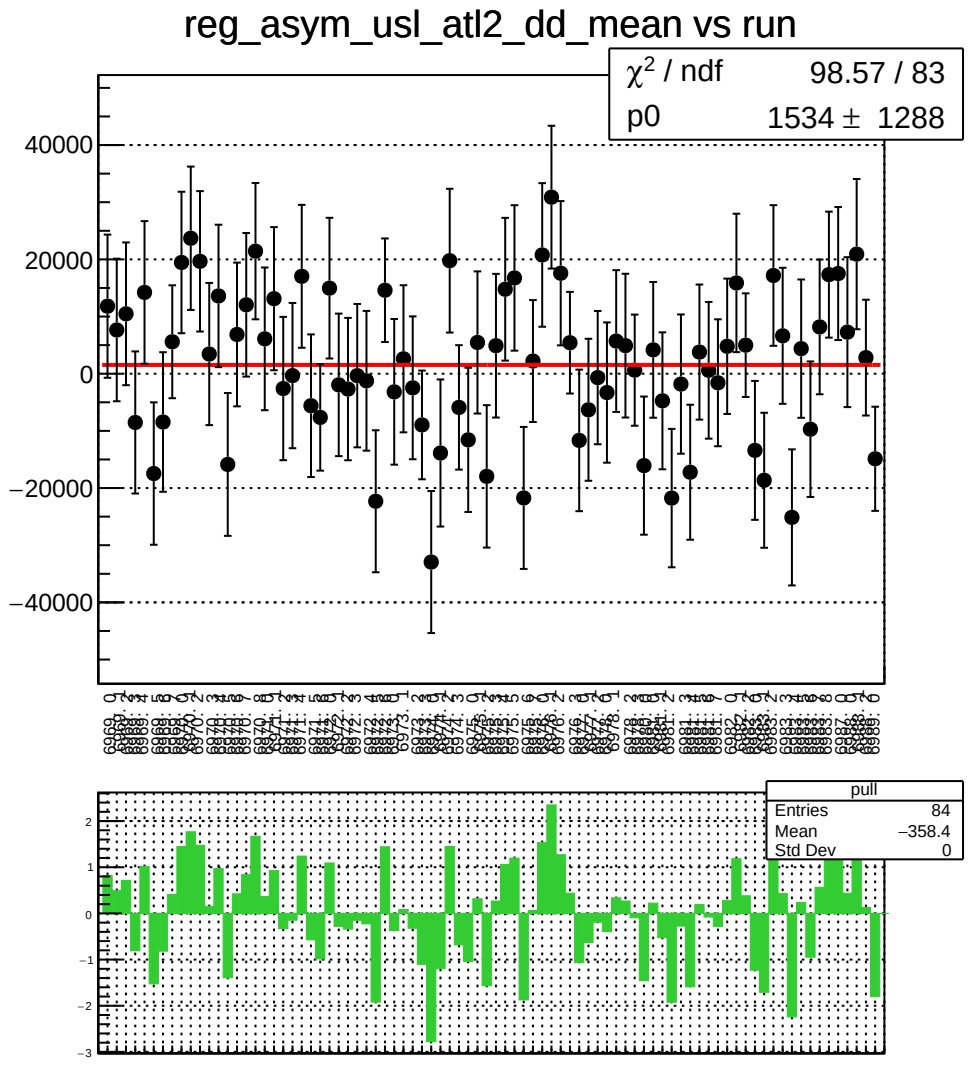

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104 / 83
p0 −0.9914 ± 0.5537
pull
Entries 84
Mean −622.1
Std Dev 0
pull1D
Entries 84
Mean −0.004757
Std Dev 1.113

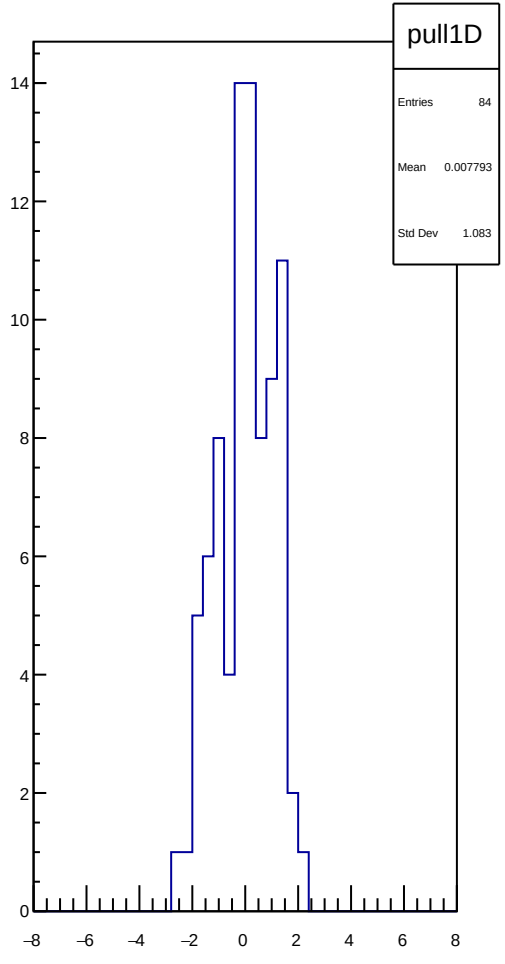

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.156e+04 / 83
p0 492.4 ± 0.3915
1200
1000
800
600
400

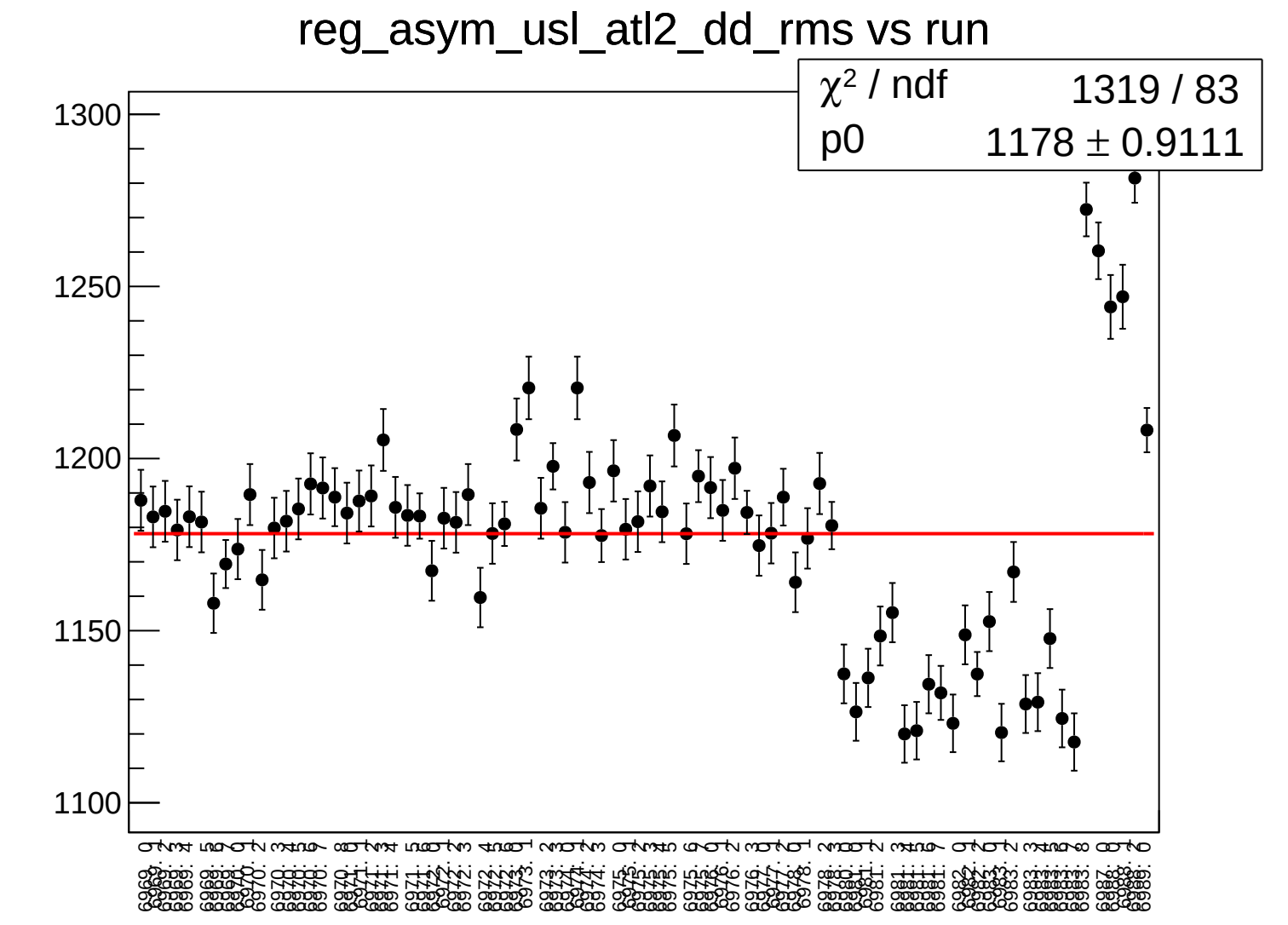

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.4 / 83
p0 −6.619e−14 ± 1.802e−13
pull
Entries 84
Mean 68.08
Std Dev 0

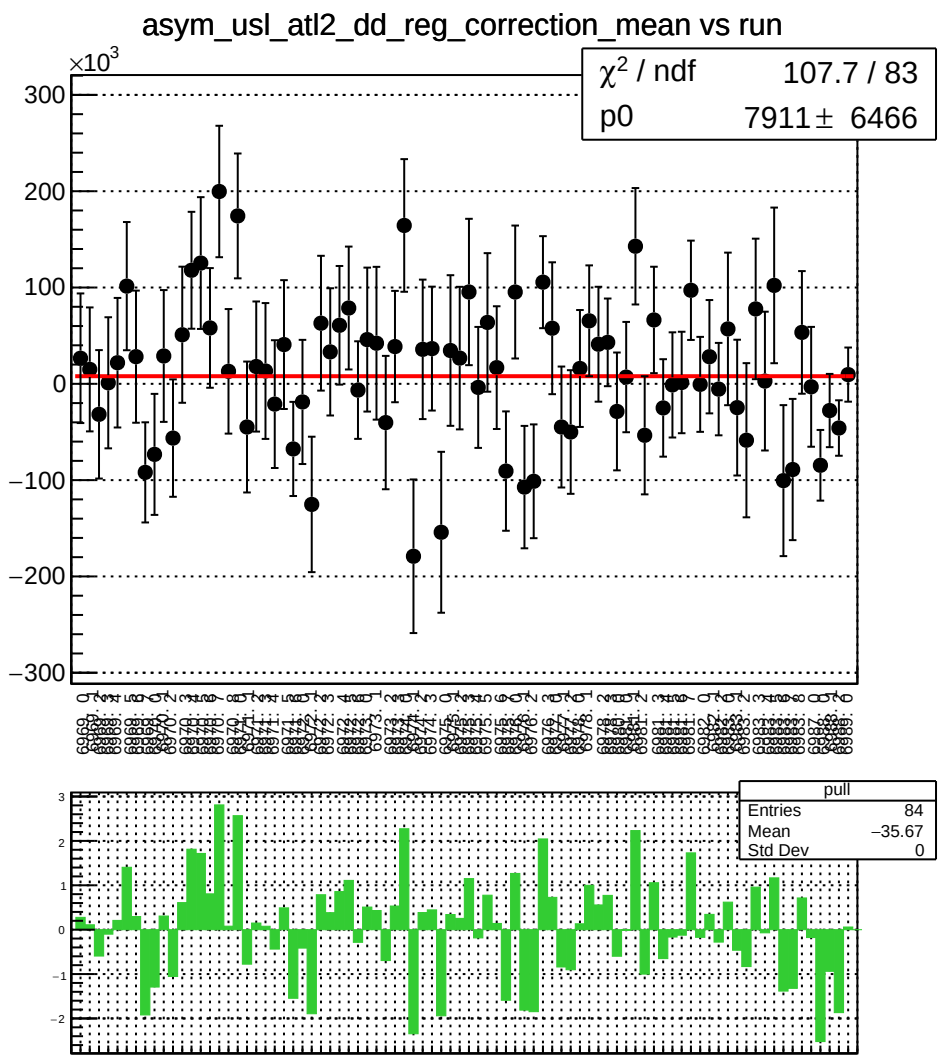

pull1D
Entries 84
Mean 0.09583
Std Dev 1.095

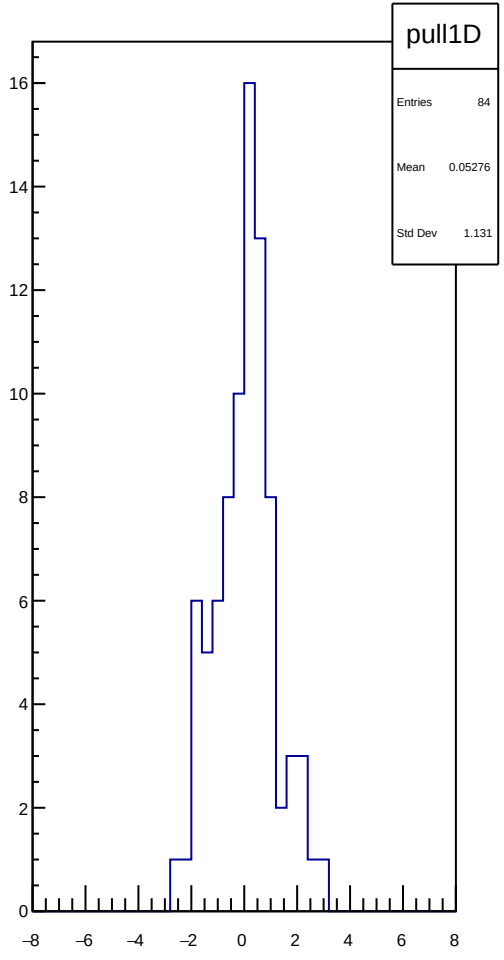

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.109e+05 / 83
p0 1.374e−10 ± 1.274e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

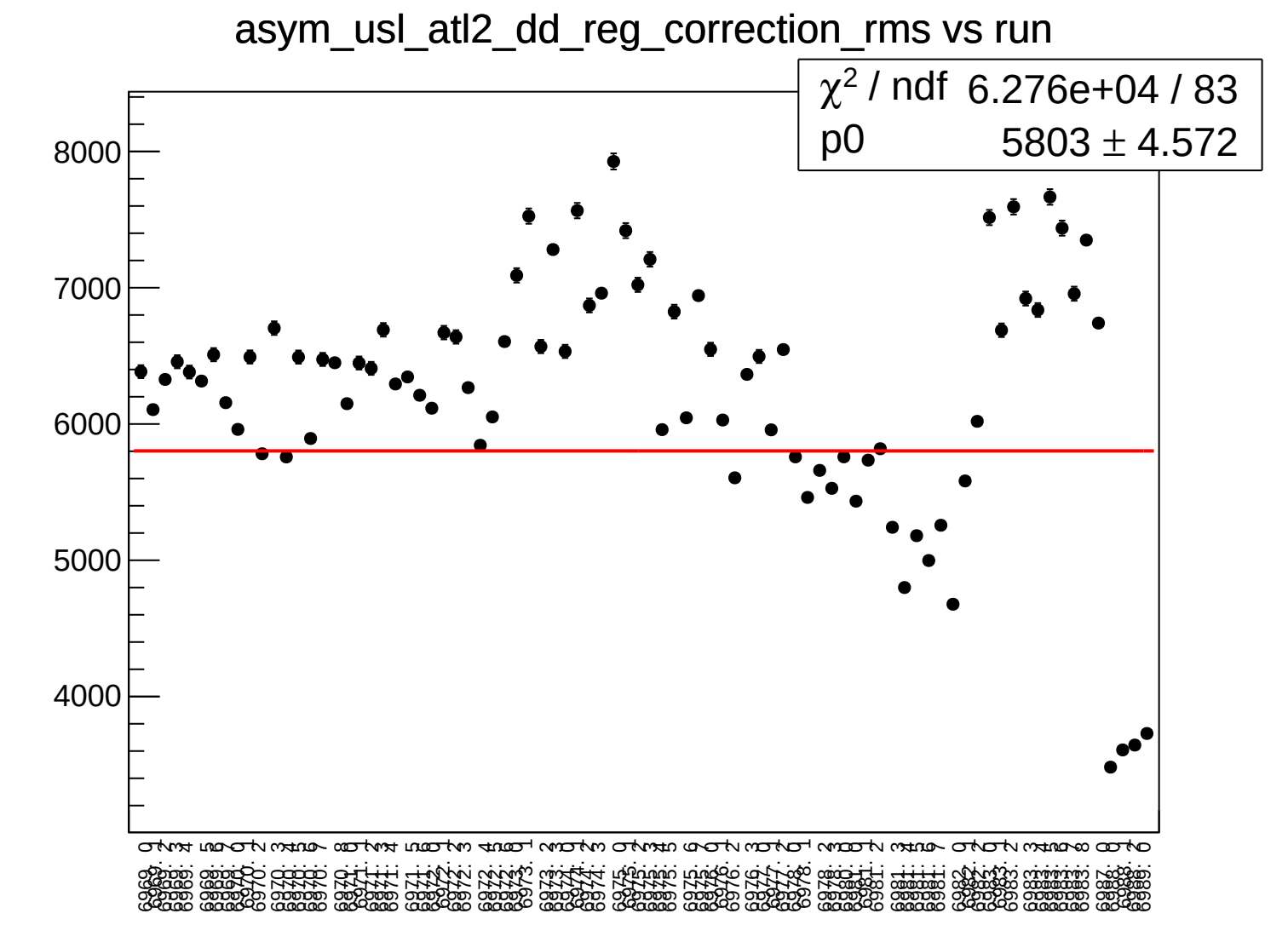

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 98.57 / 83
p0 1534 ± 1288
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −358.4
Std Dev 0
2
1
0
−1
−2
−3

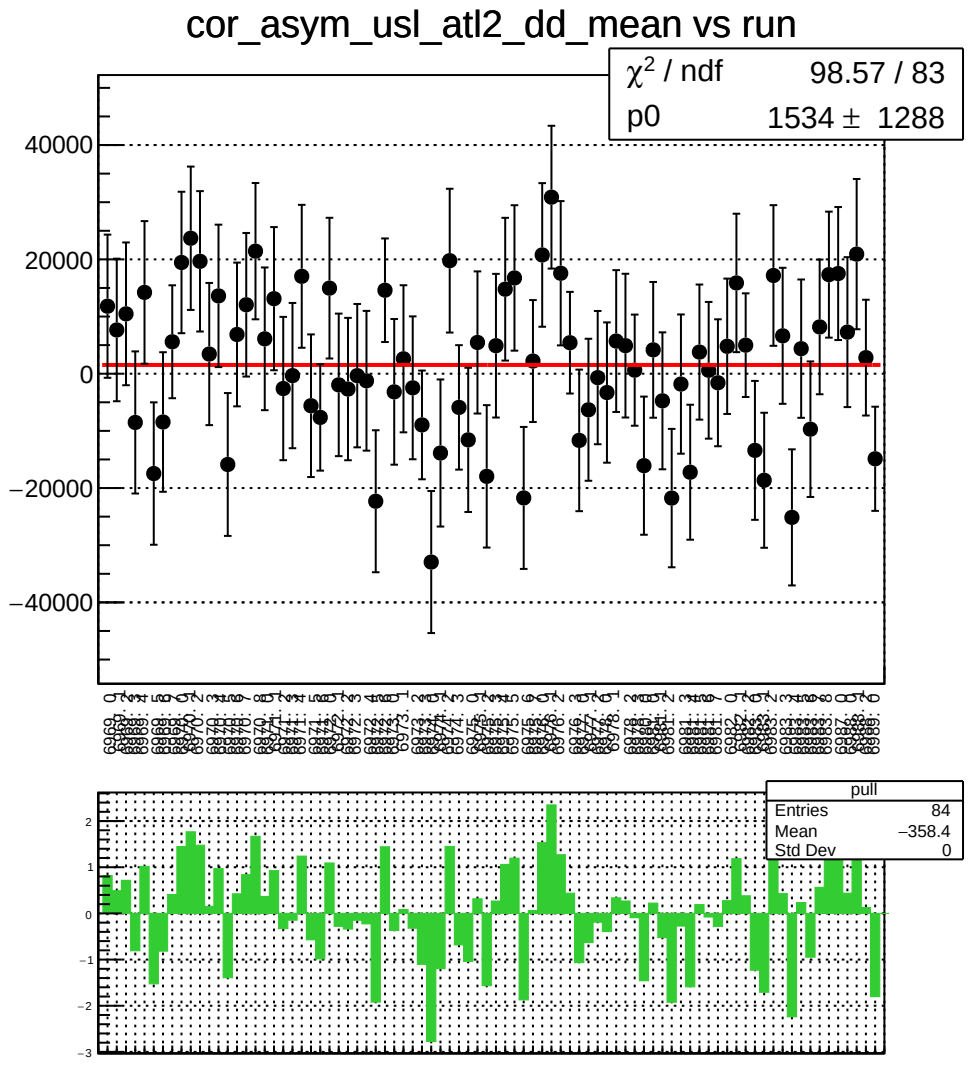

pull1D
Entries 84
Mean 0.007793
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

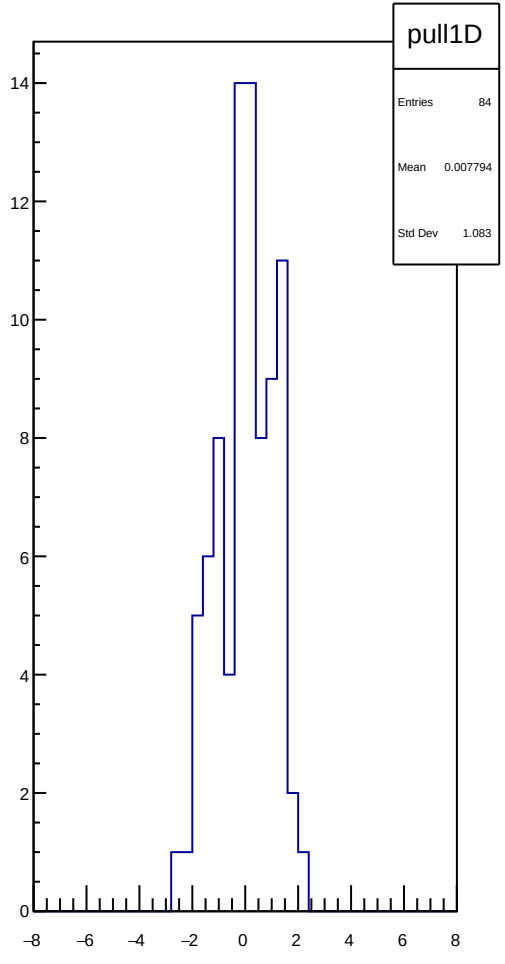

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 1319 / 83
p0 1178 ± 0.9111
1300
1250
1200
1150
1100

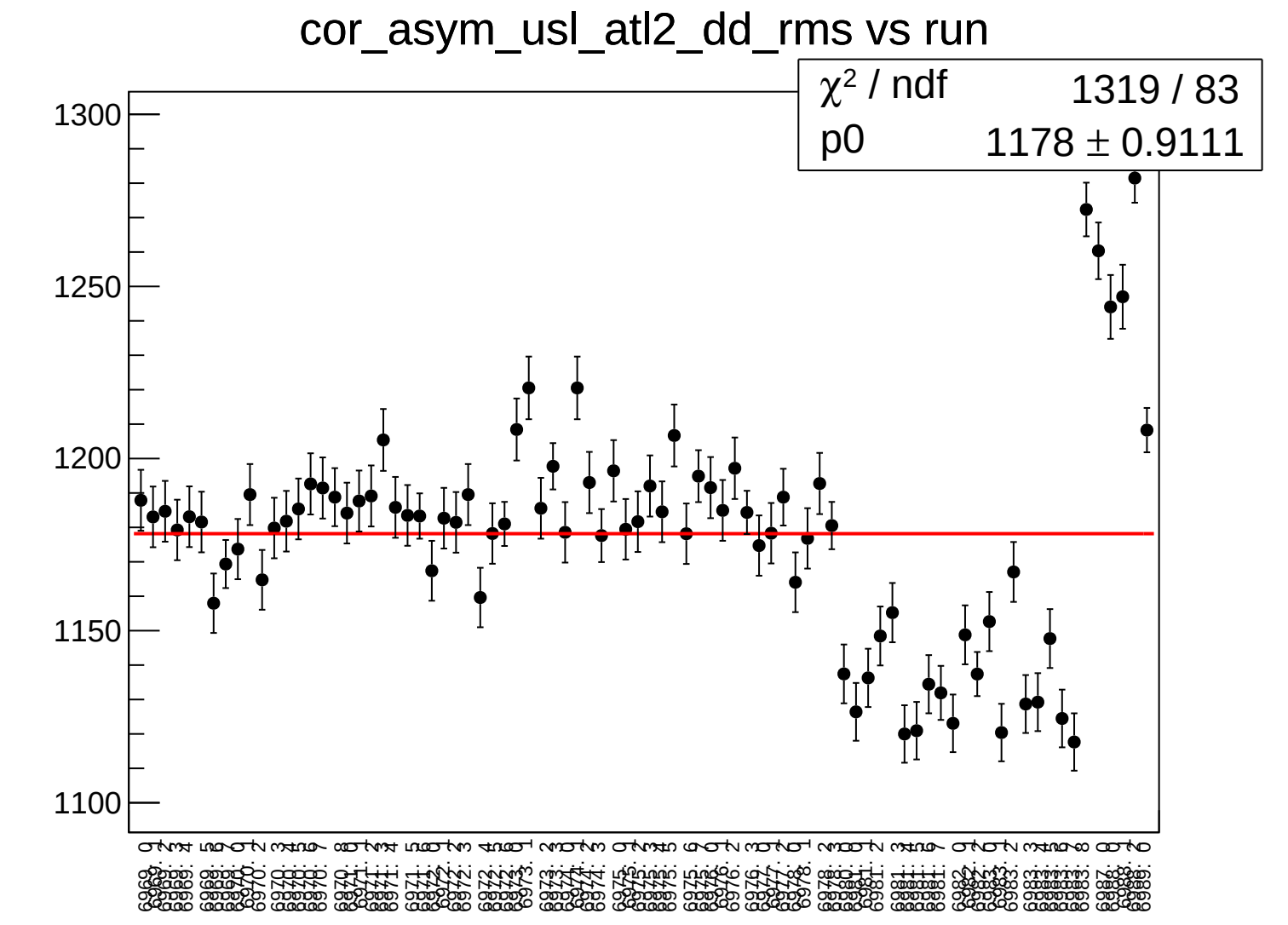

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 107.7 / 83
p0 7911 ± 6466
pull
Entries 84
Mean −35.67
Std Dev 0

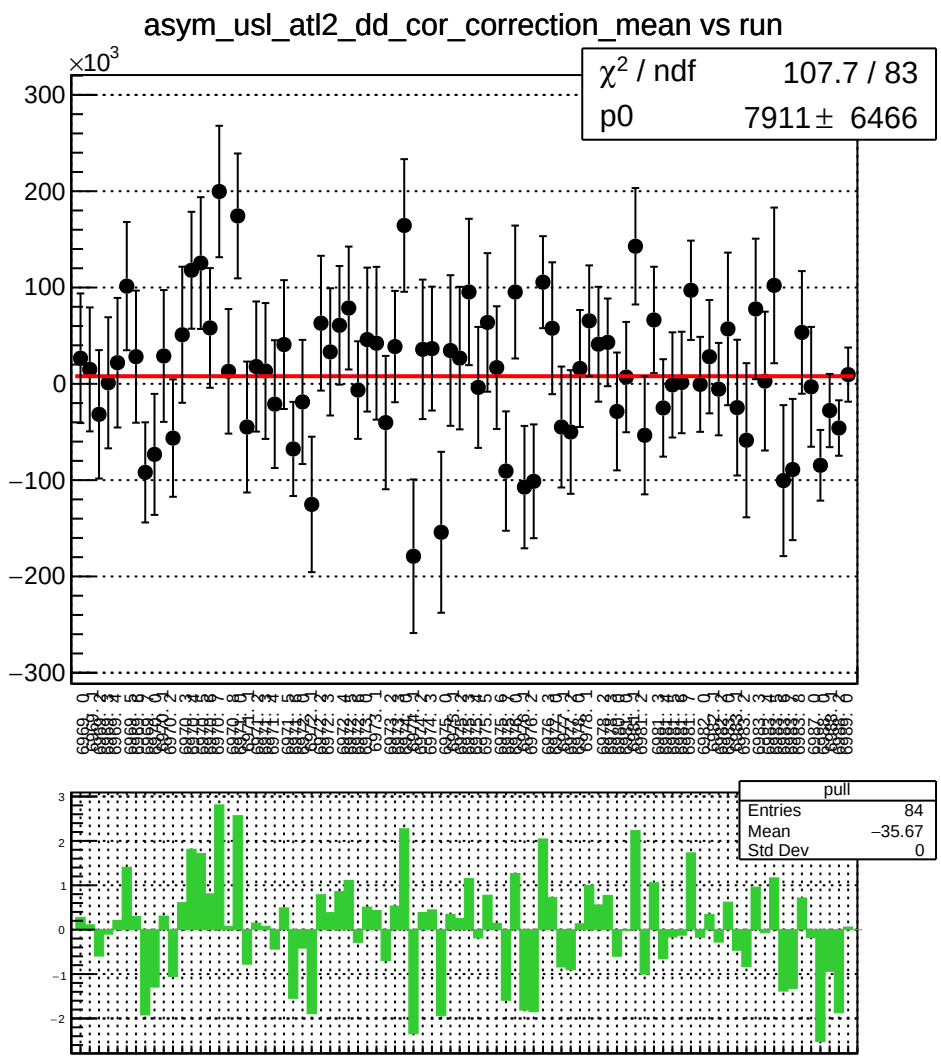

pull1D
Entries 84
Mean 0.05276
Std Dev 1.131

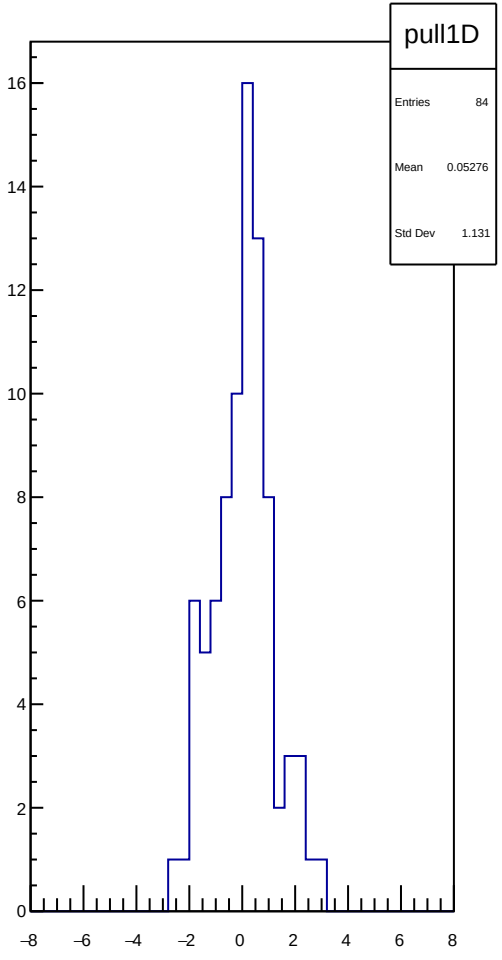

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 6.276e+04 / 83
p0 5803 ± 4.572
8000
7000
6000
5000
4000

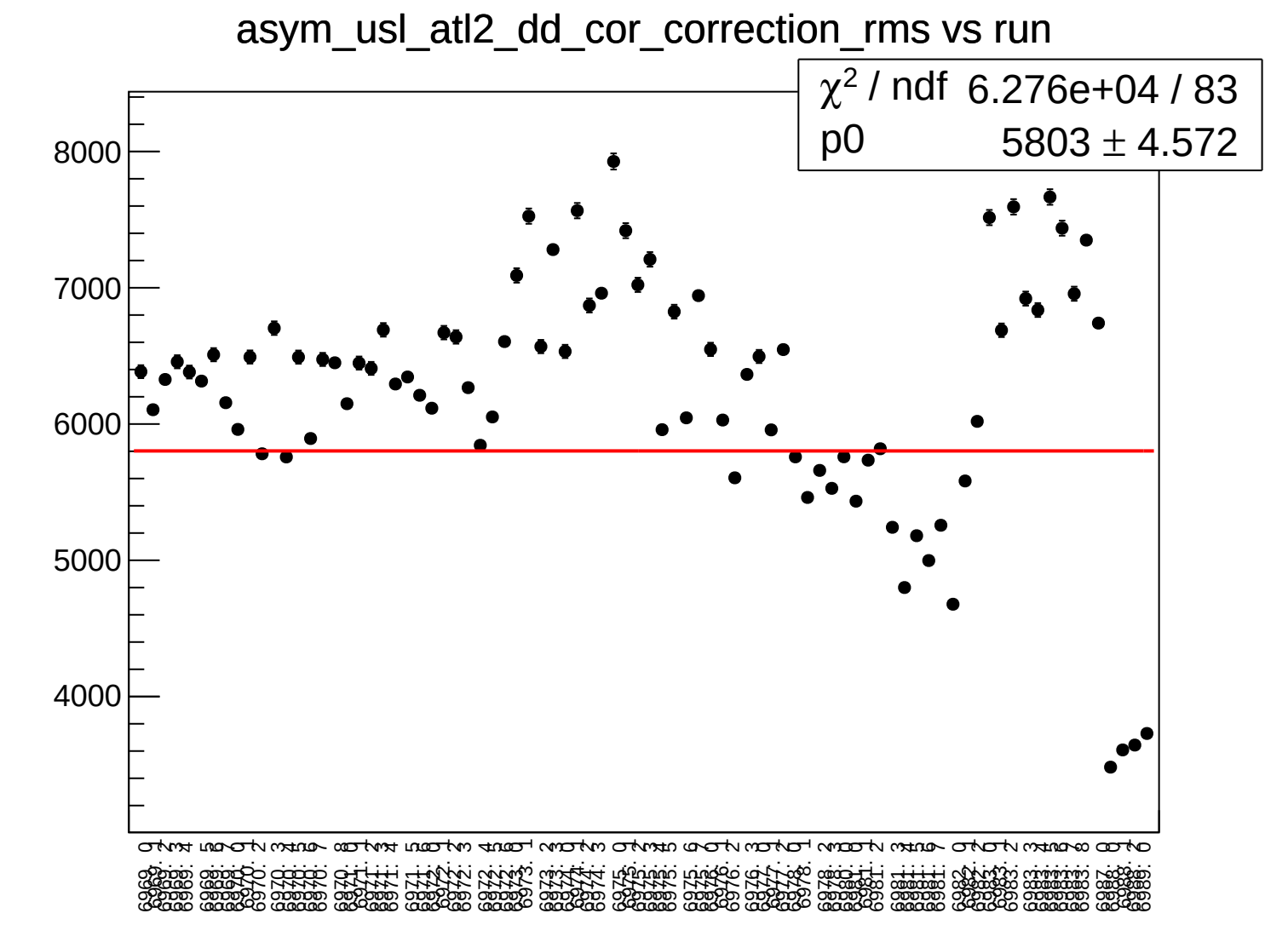

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 98.57 / 83
p0 1534 ± 1288
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −358.4
Std Dev 0
2
1
0
−1
−2
−3

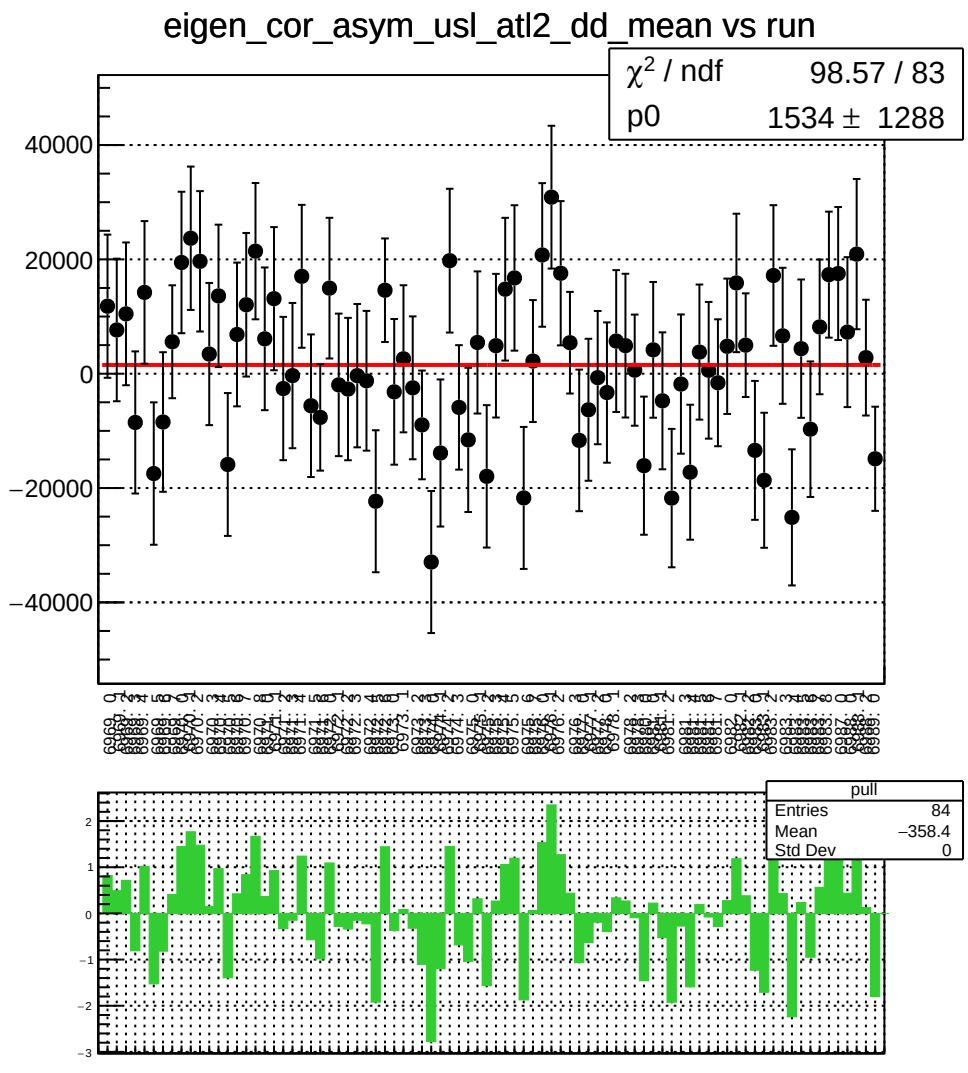

pull1D
Entries 84
Mean 0.007794
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

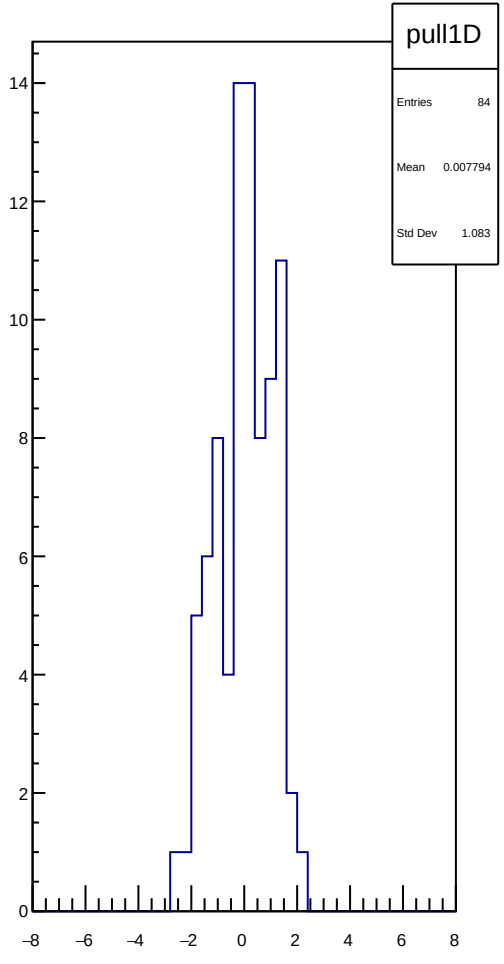

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1319 / 83
p0 1178 ± 0.9111
1300
1250
1200
1150
1100

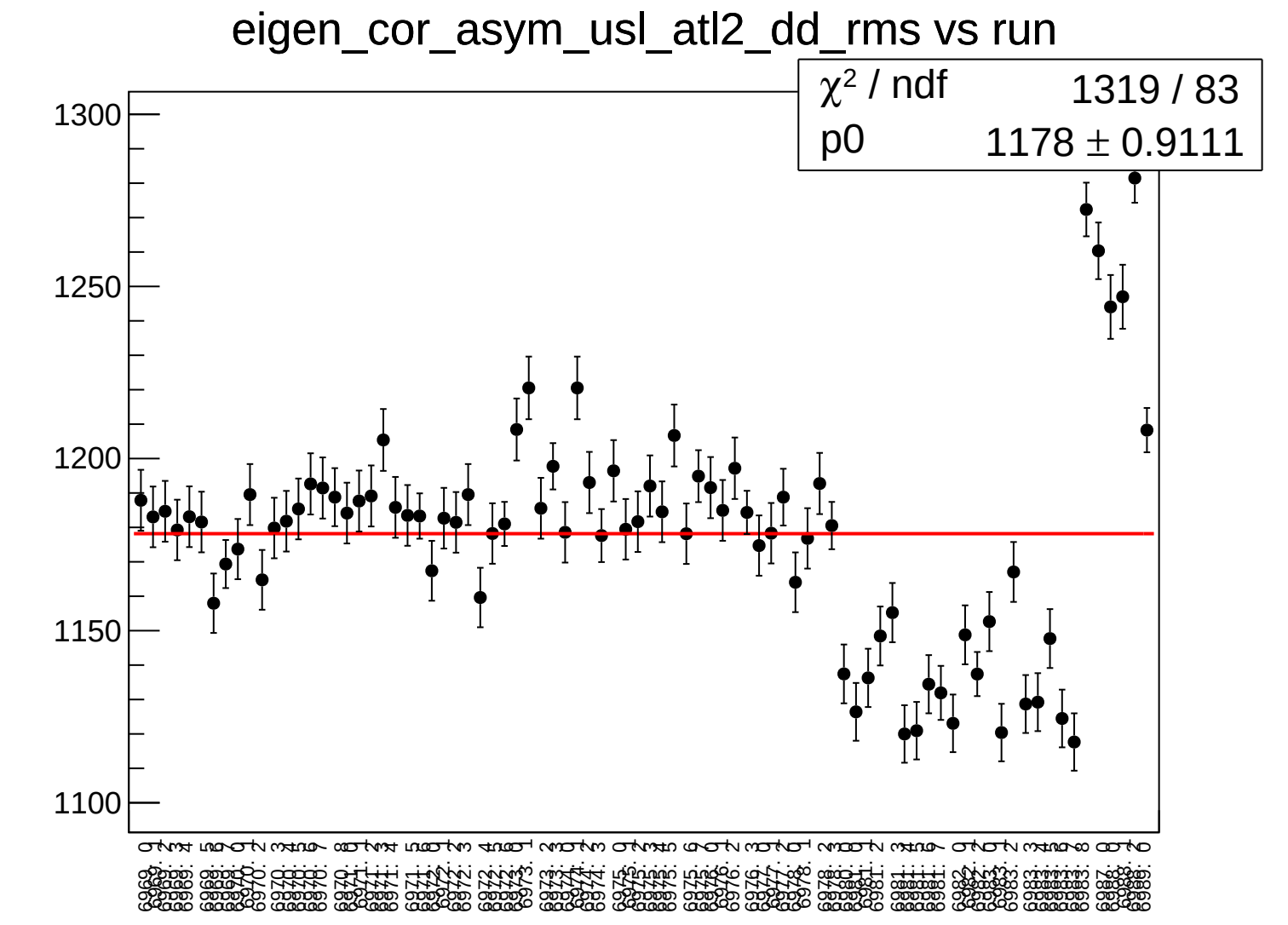

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.7 / 83
p0 7911 ± 6466
pull
Entries 84
Mean −35.67
Std Dev 0

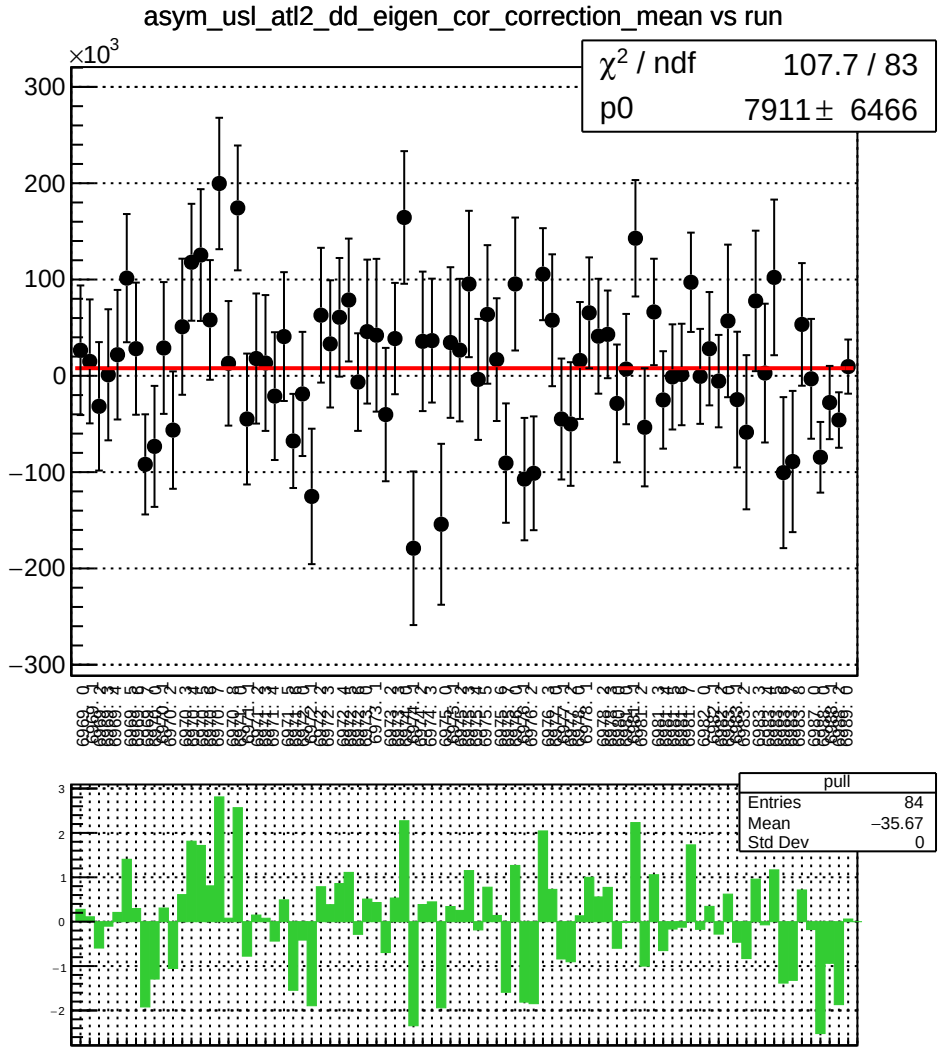

pull1D
Entries 84
Mean 0.05276
Std Dev 1.131

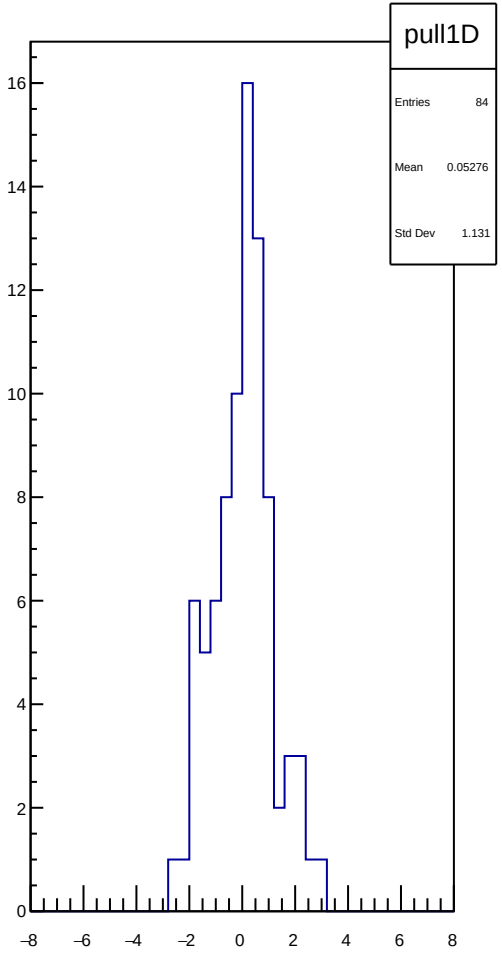

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 6.276e+04 / 83
p0 5803 ± 4.572
8000
7000
6000
5000
4000

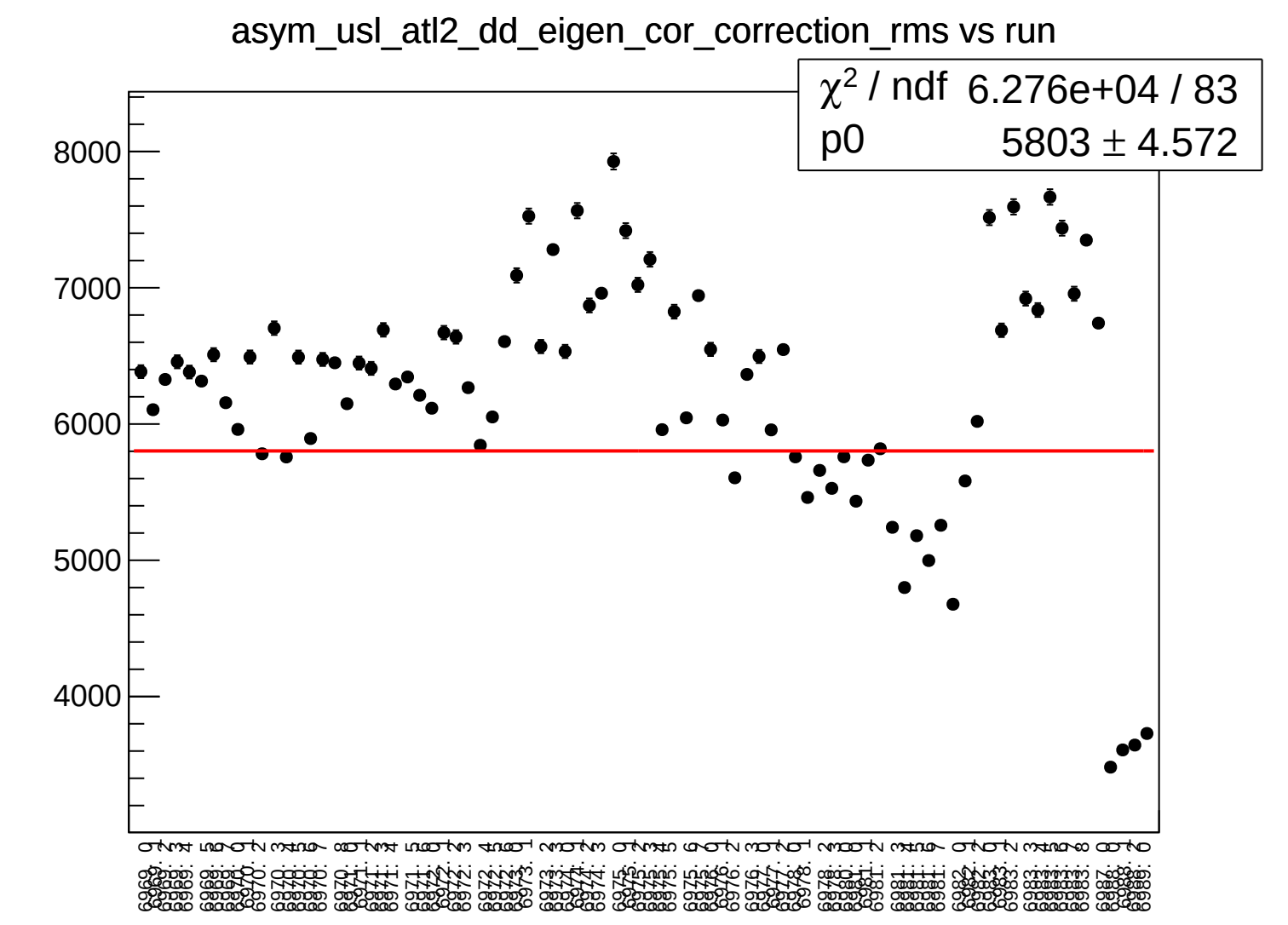

eigen_cor_asym_usl_atl2_dd_mean vs run
χ^2 / ndf 98.57 / 83
p0 1534 ± 1288
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −358.4
Std Dev 0
2
1
0
−1
−2
−3

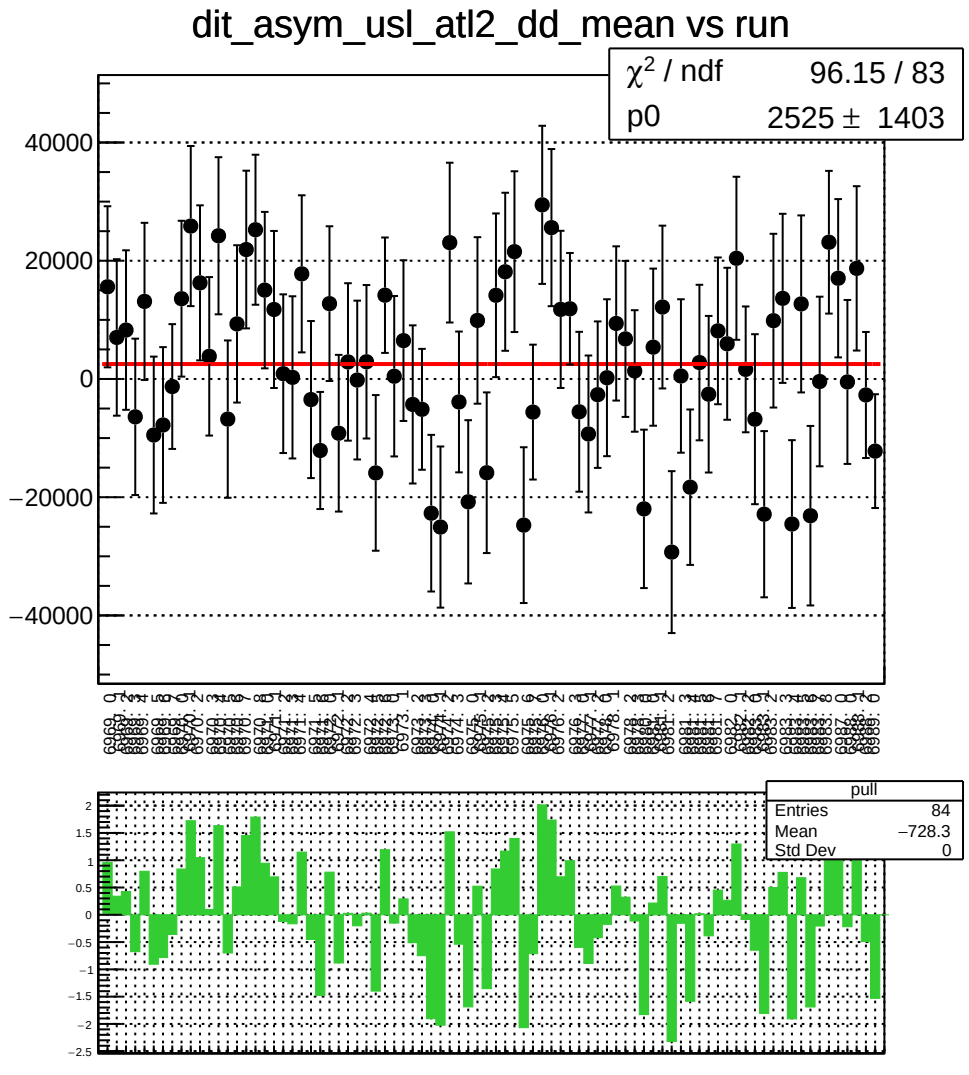

pull1D
Entries 84
Mean 0.007794
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

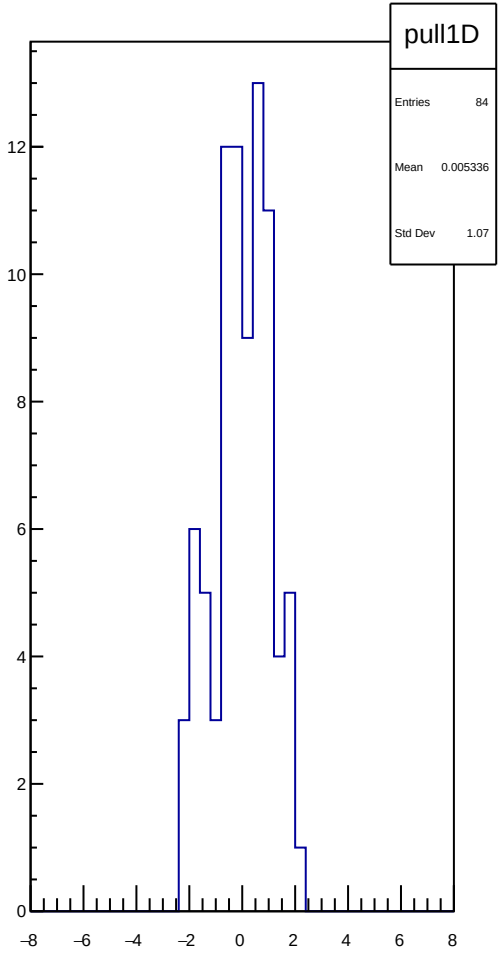

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1319 / 83
p0 1178 ± 0.9111
1300
1250
1200
1150
1100

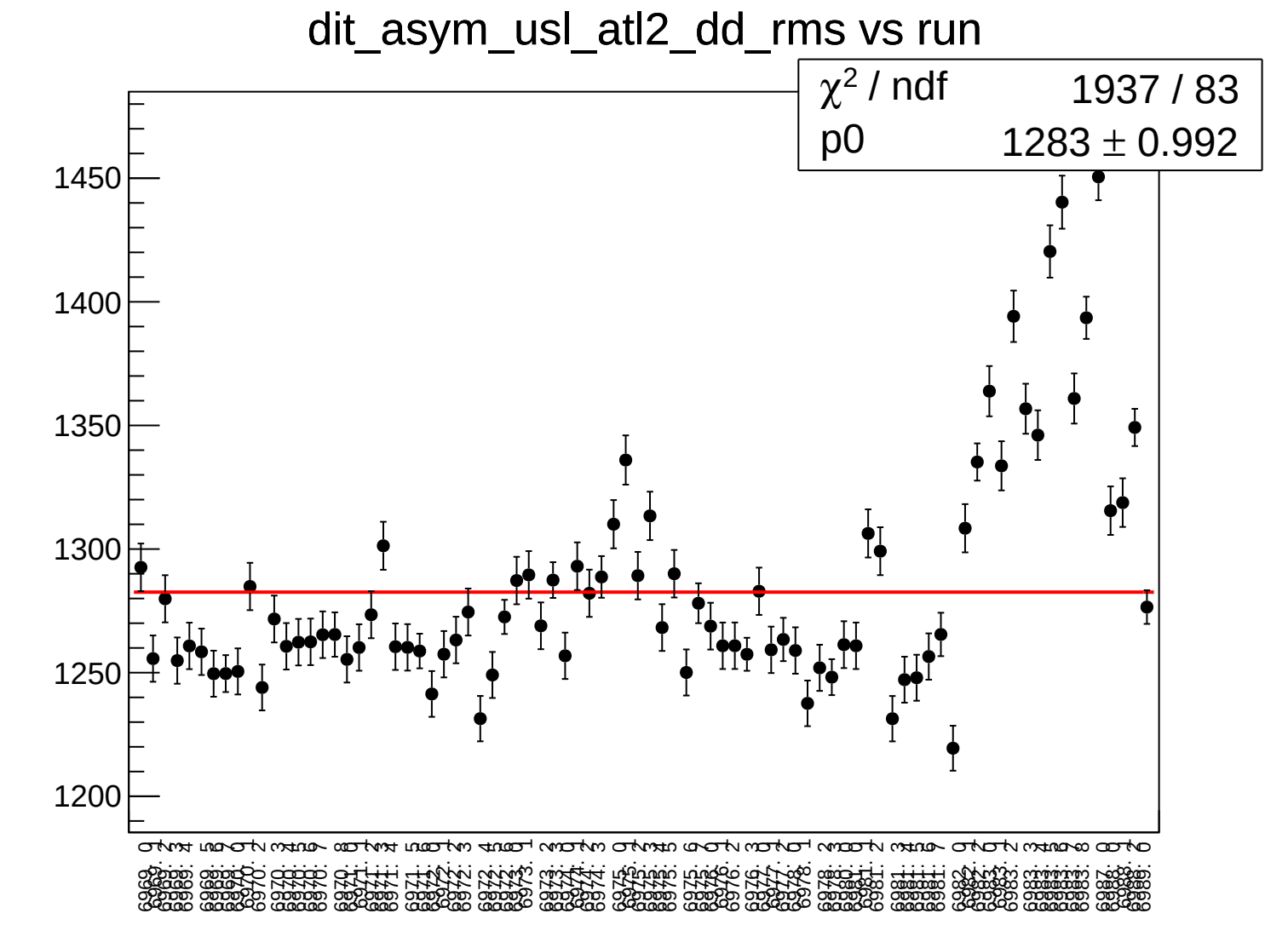

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.7 / 83
p0 7911 ± 6466
pull
Entries 84
Mean −35.67
Std Dev 0

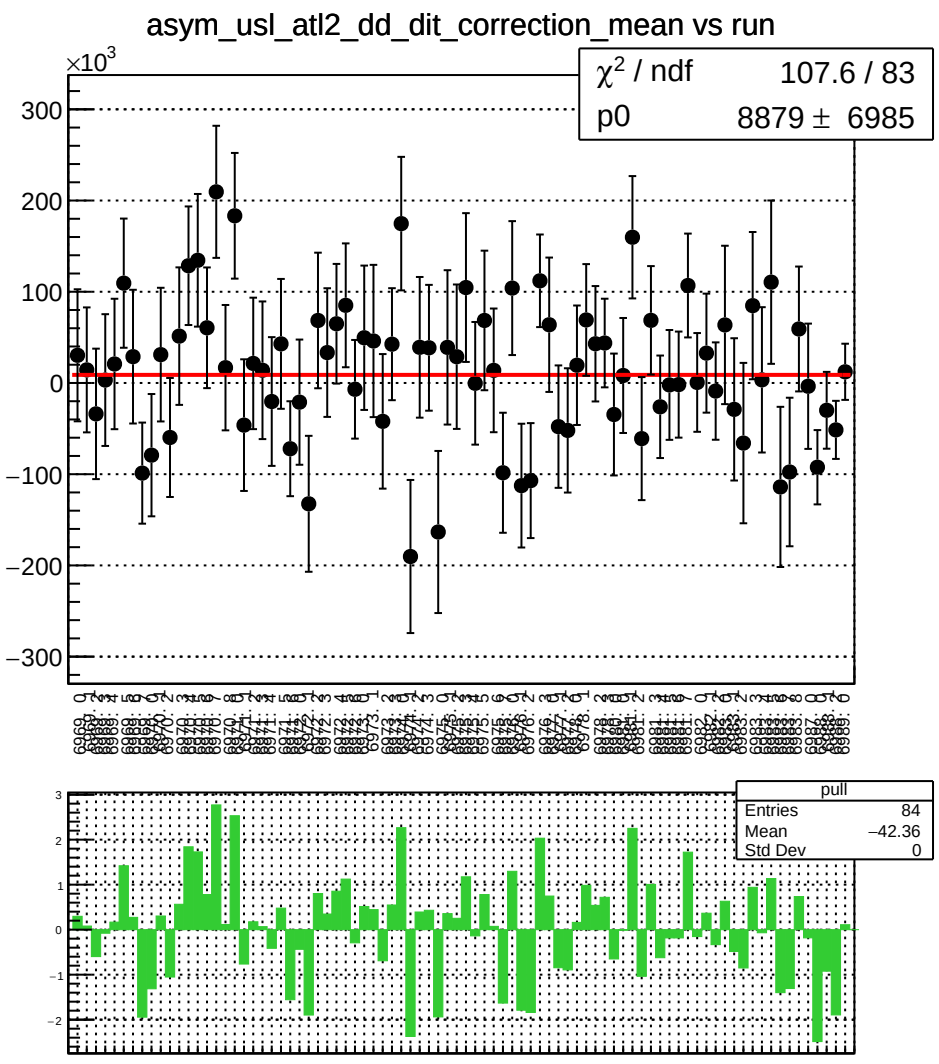

pull1D
Entries 84
Mean 0.05276
Std Dev 1.131

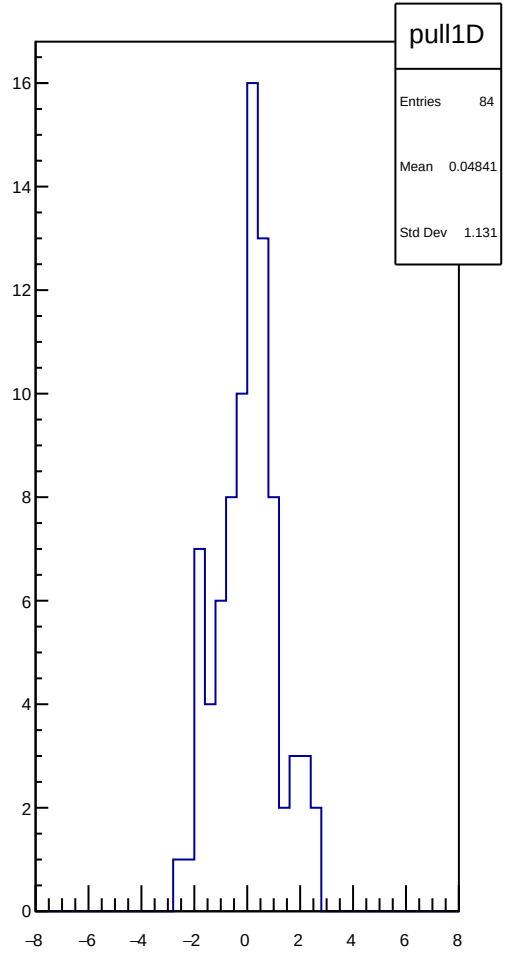

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.276e+04 / 83
p0 5803 ± 4.572
8000
7000
6000
5000
4000

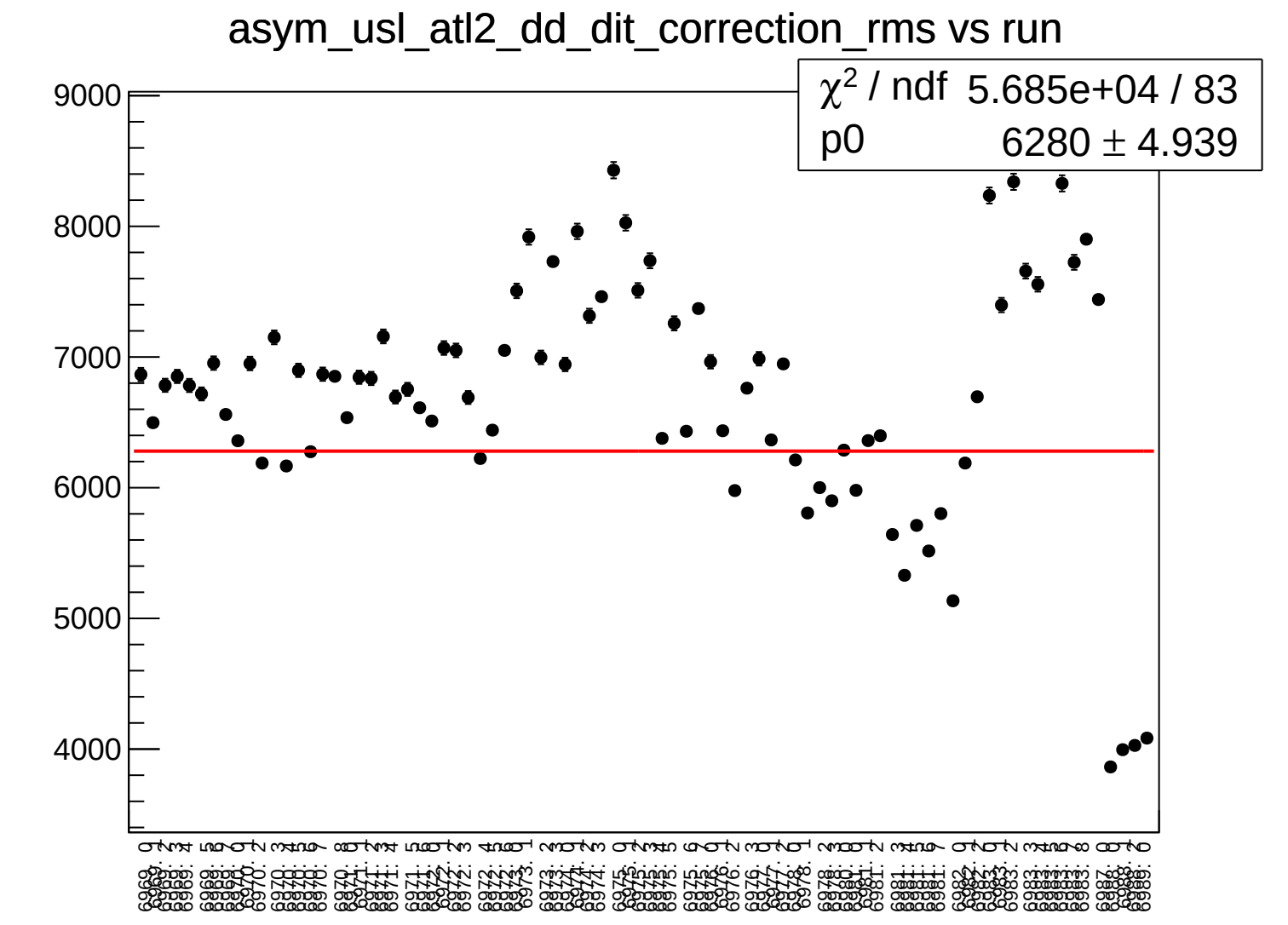

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 96.15 / 83
p0 2525 ± 1403
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −728.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

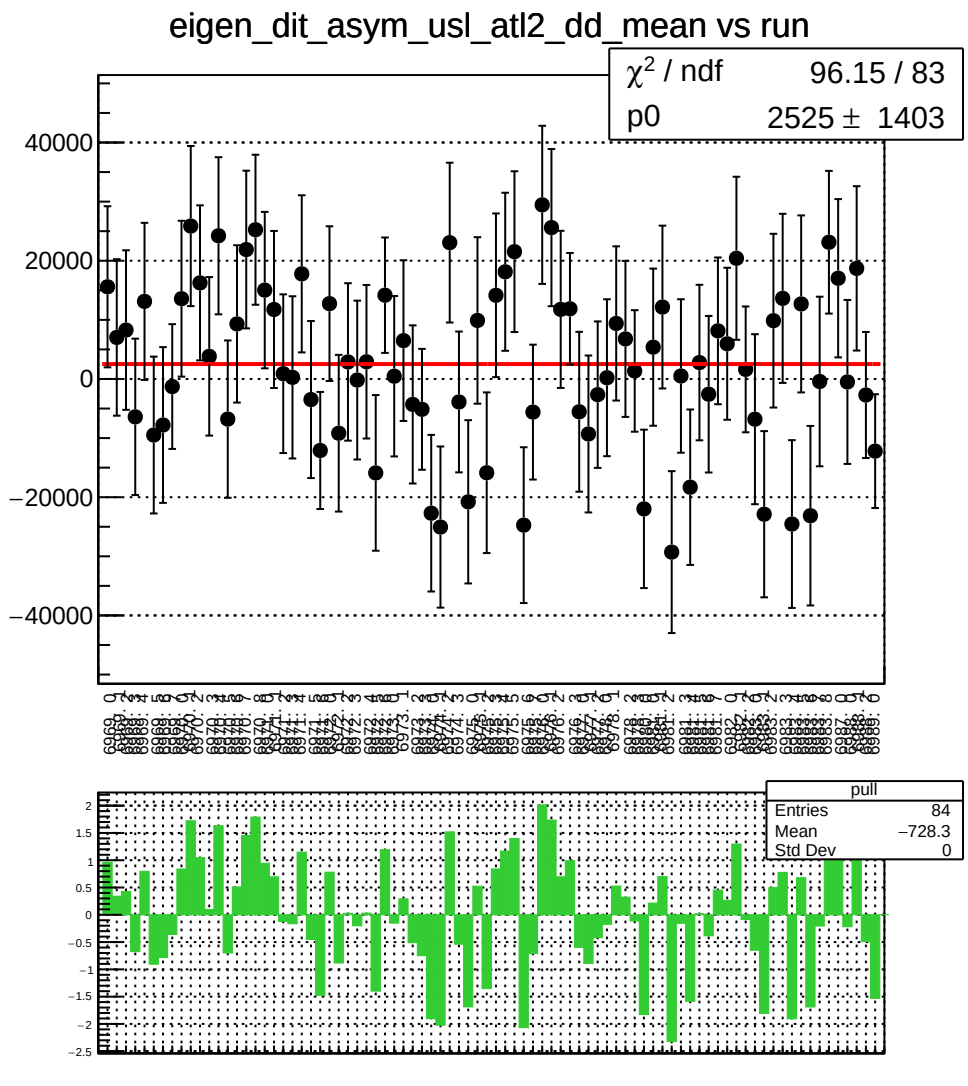

pull1D
Entries 84
Mean 0.005336
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

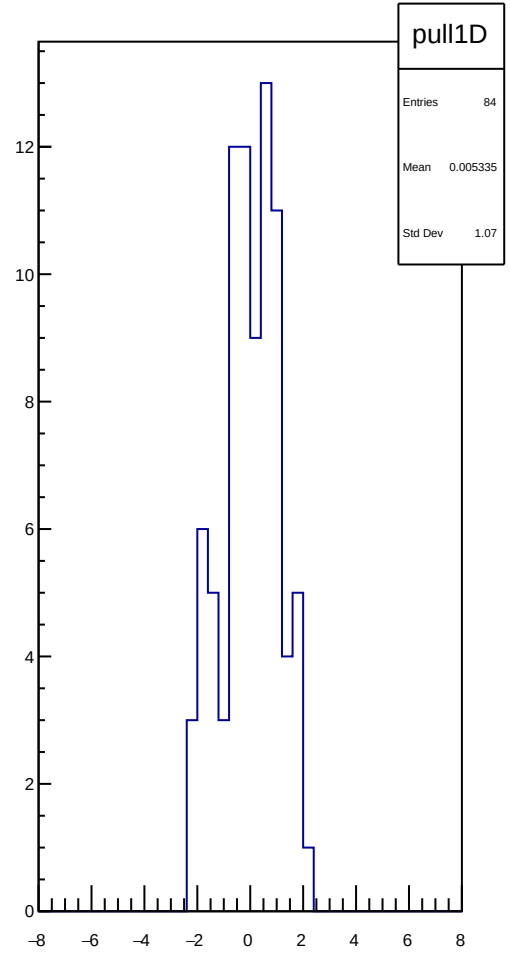

dit_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 1937 / 83
p0 1283 ± 0.992
1450
1400
1350
1300
1250
1200

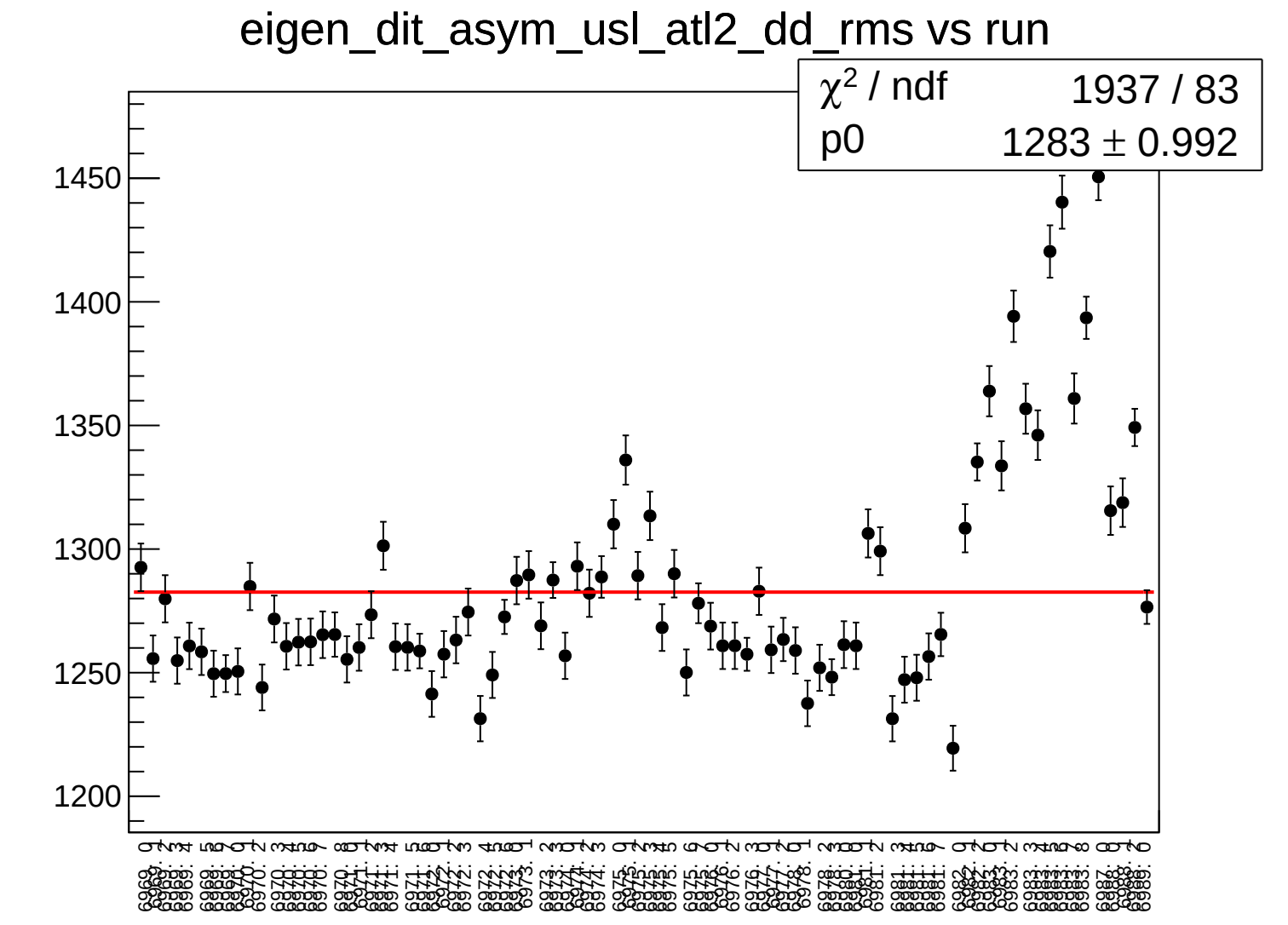

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107.6 / 83
p0 8879 ± 6985
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −42.36
Std Dev 0
3
2
1
0
−1
−2

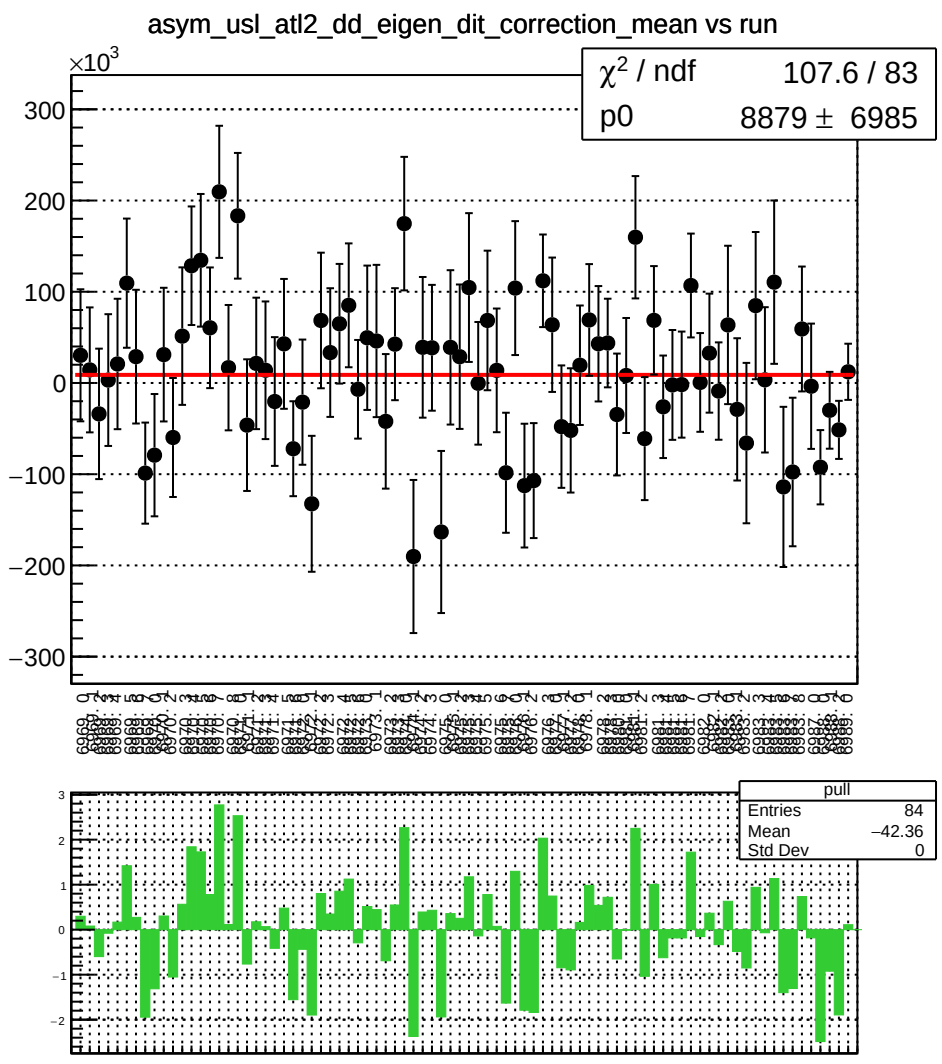

pull1D
Entries 84
Mean 0.04841
Std Dev 1.131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

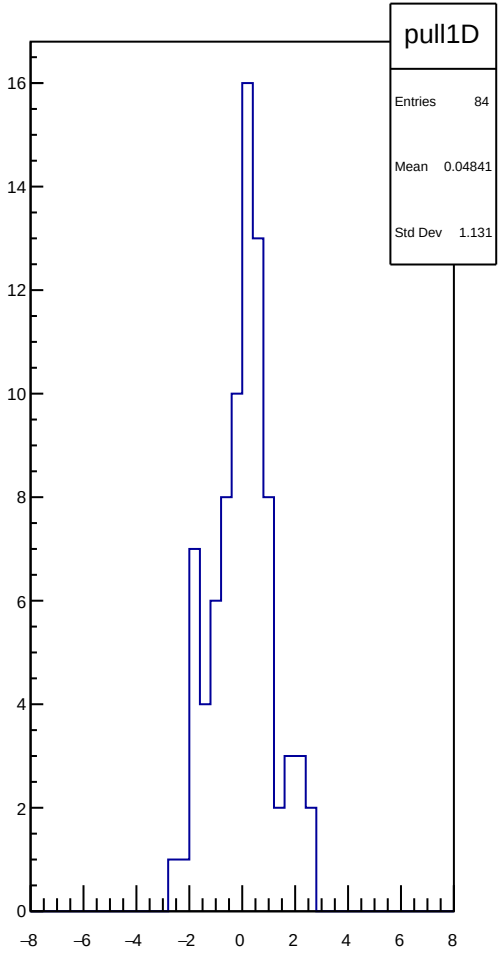

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 5.685e+04 / 83
p0 6280 ± 4.939
9000
8000
7000
6000
5000
4000

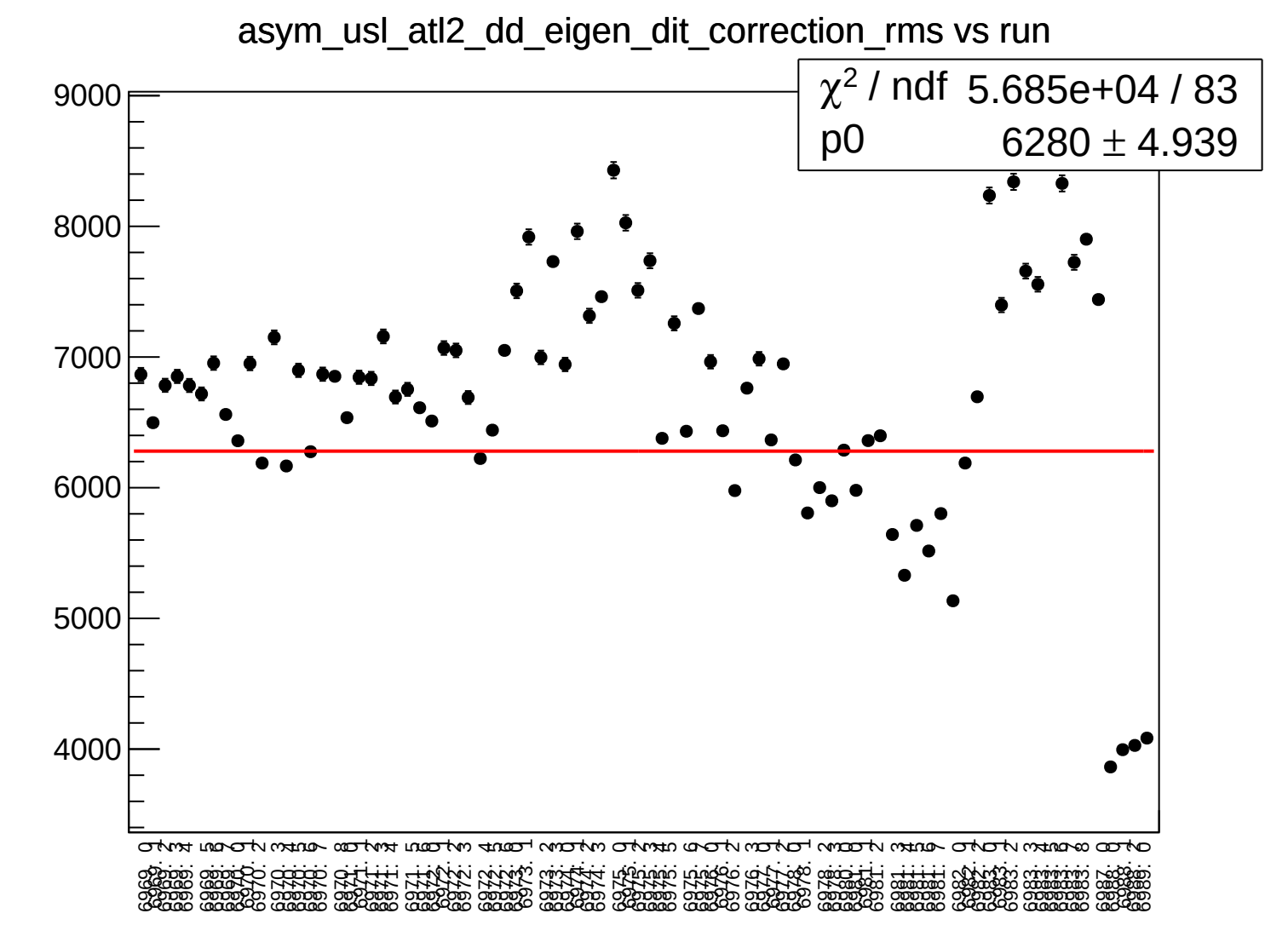

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 96.15 / 83
p0 2525 ± 1403
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −728.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

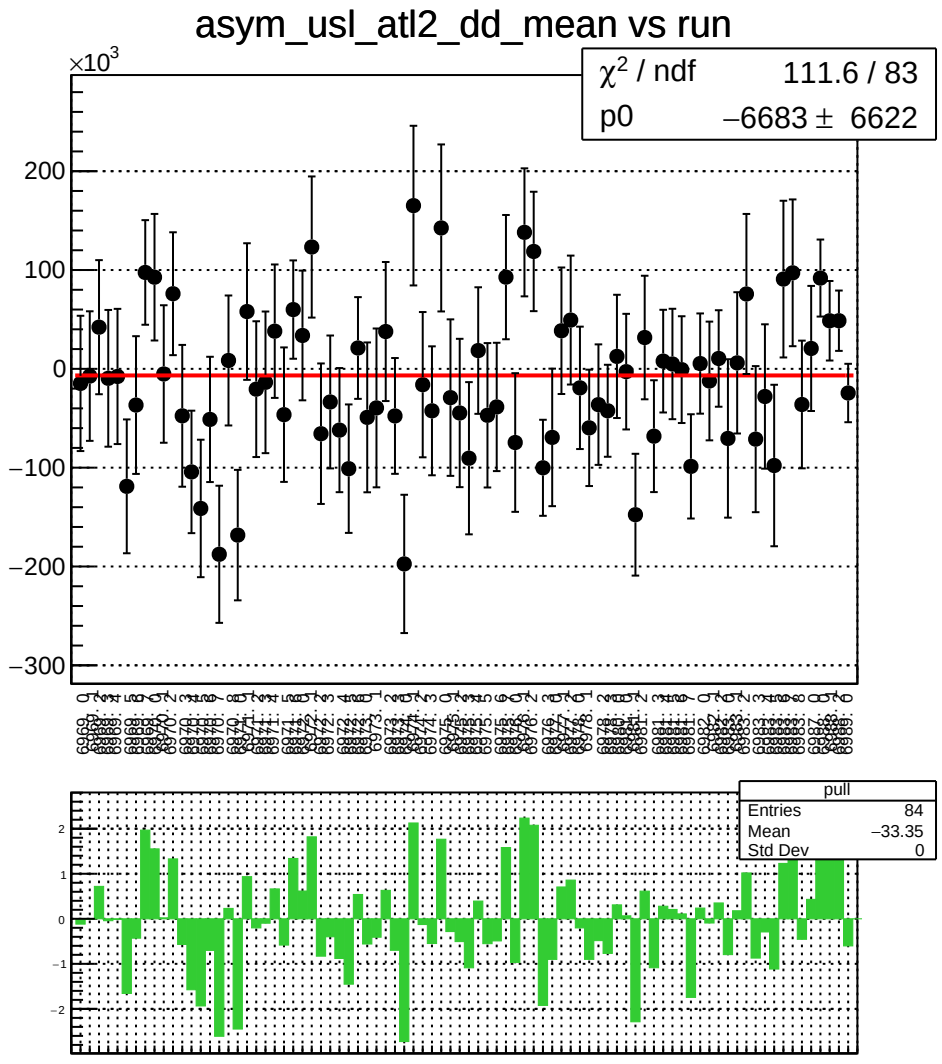

pull1D
Entries 84
Mean 0.005335
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

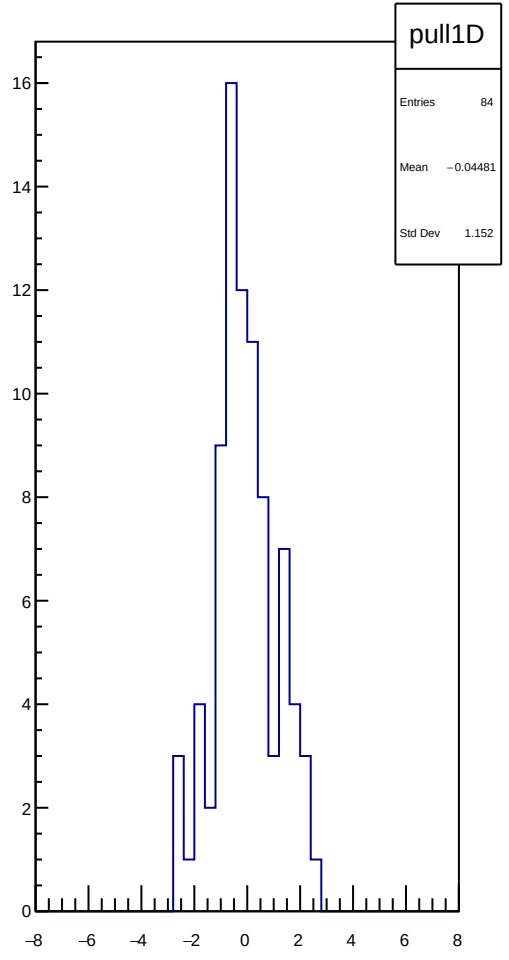

eigen_dit_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 1937 / 83
p0 1283 ± 0.992
1450
1400
1350
1300
1250
1200

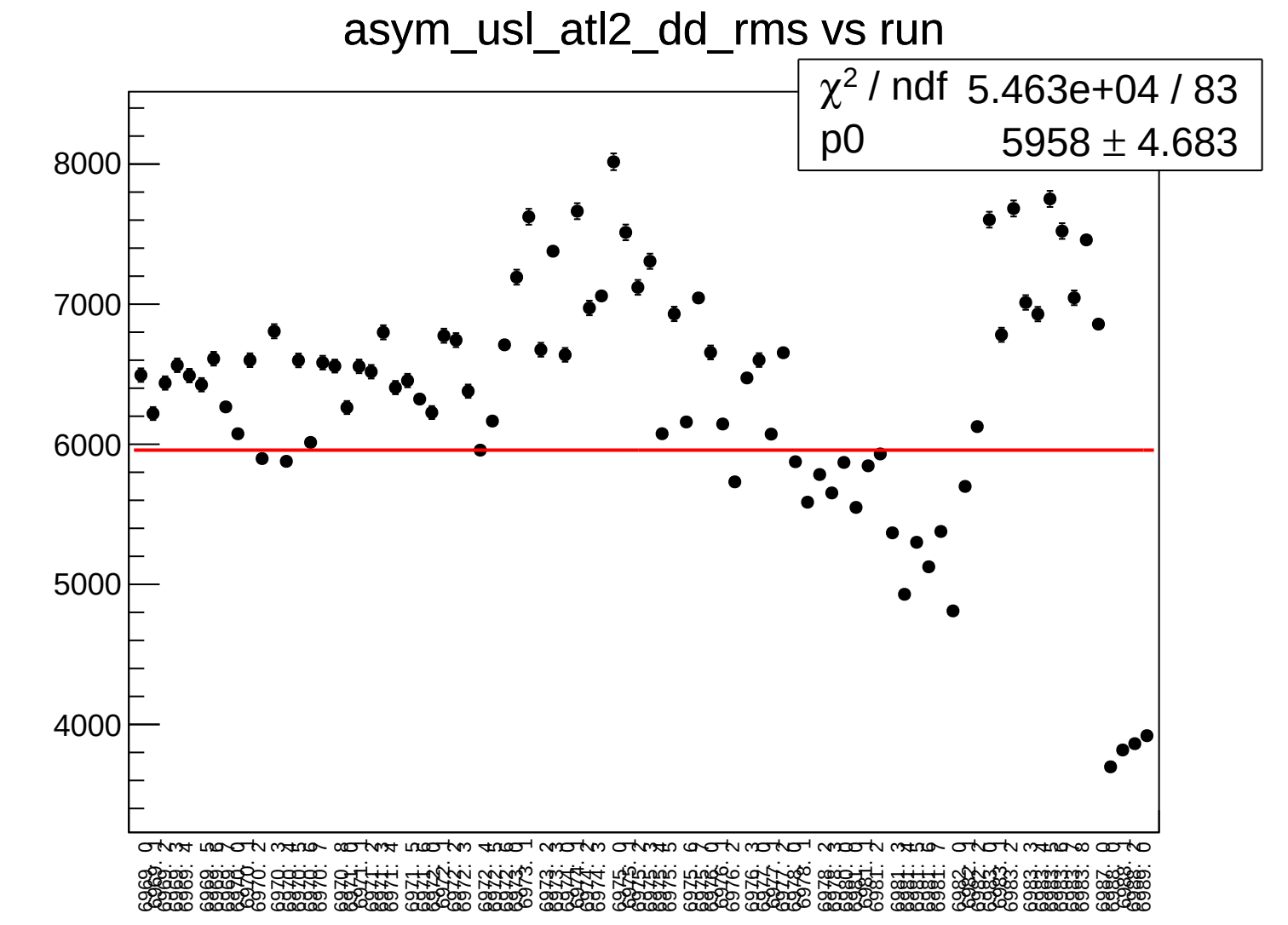

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.6 / 83
p0 8879 ± 6985
pull
Entries 84
Mean −42.36
Std Dev 0

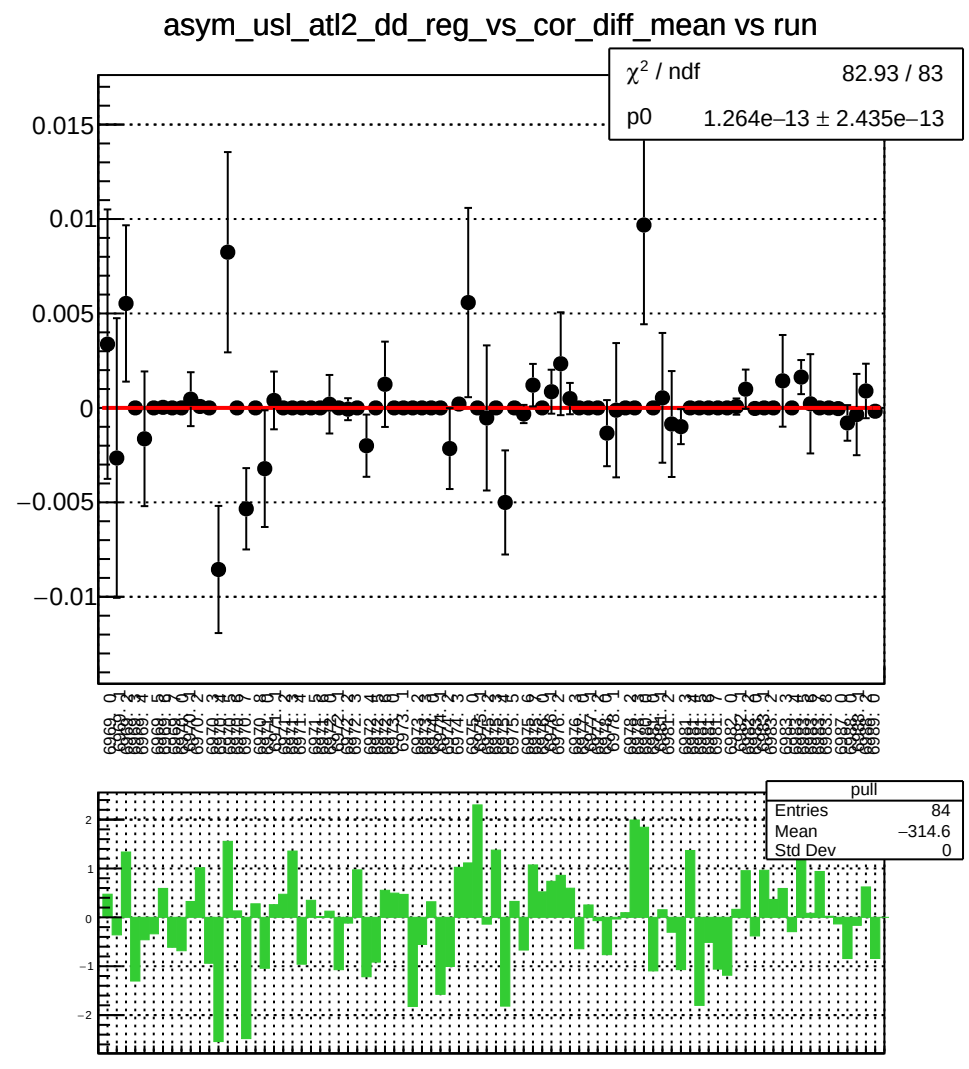

pull1D
Entries 84
Mean 0.04841
Std Dev 1.131

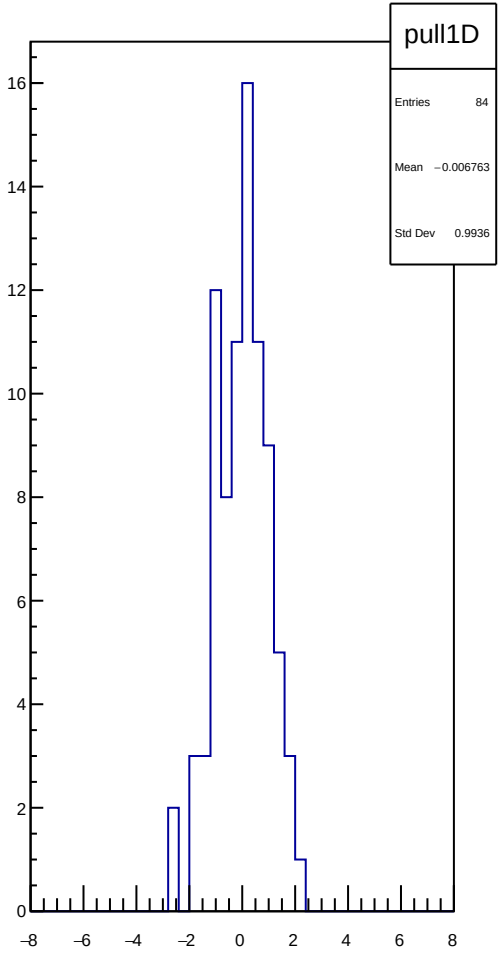

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.685e+04 / 83
p0 6280 ± 4.939
9000
8000
7000
6000
5000
4000

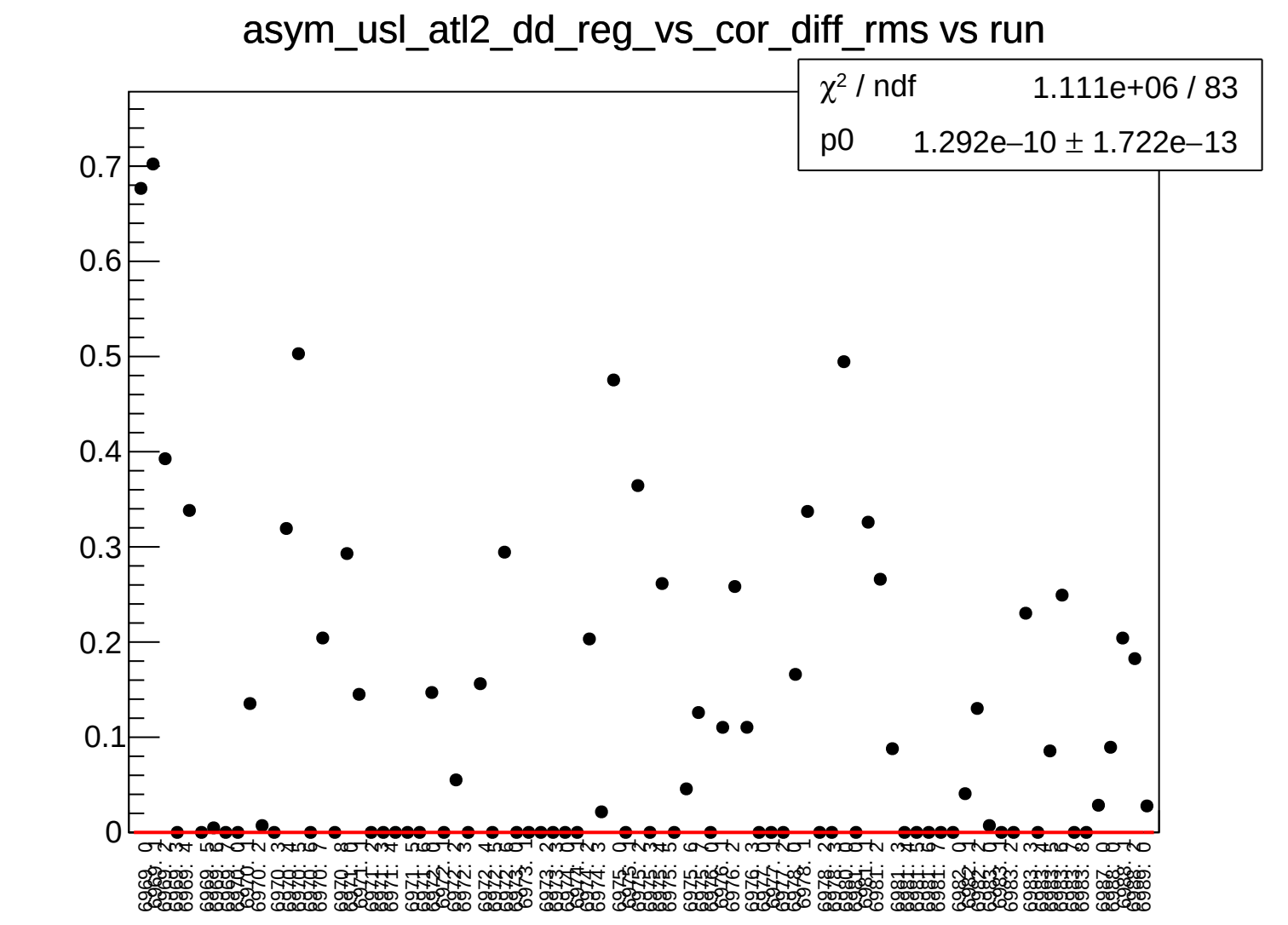

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 111.6 / 83
p0 −6683 ± 6622
200
100
0
−100
−200
−300
pull
Entries 84
Mean −33.35
Std Dev 0
2
1
0
−1
−2

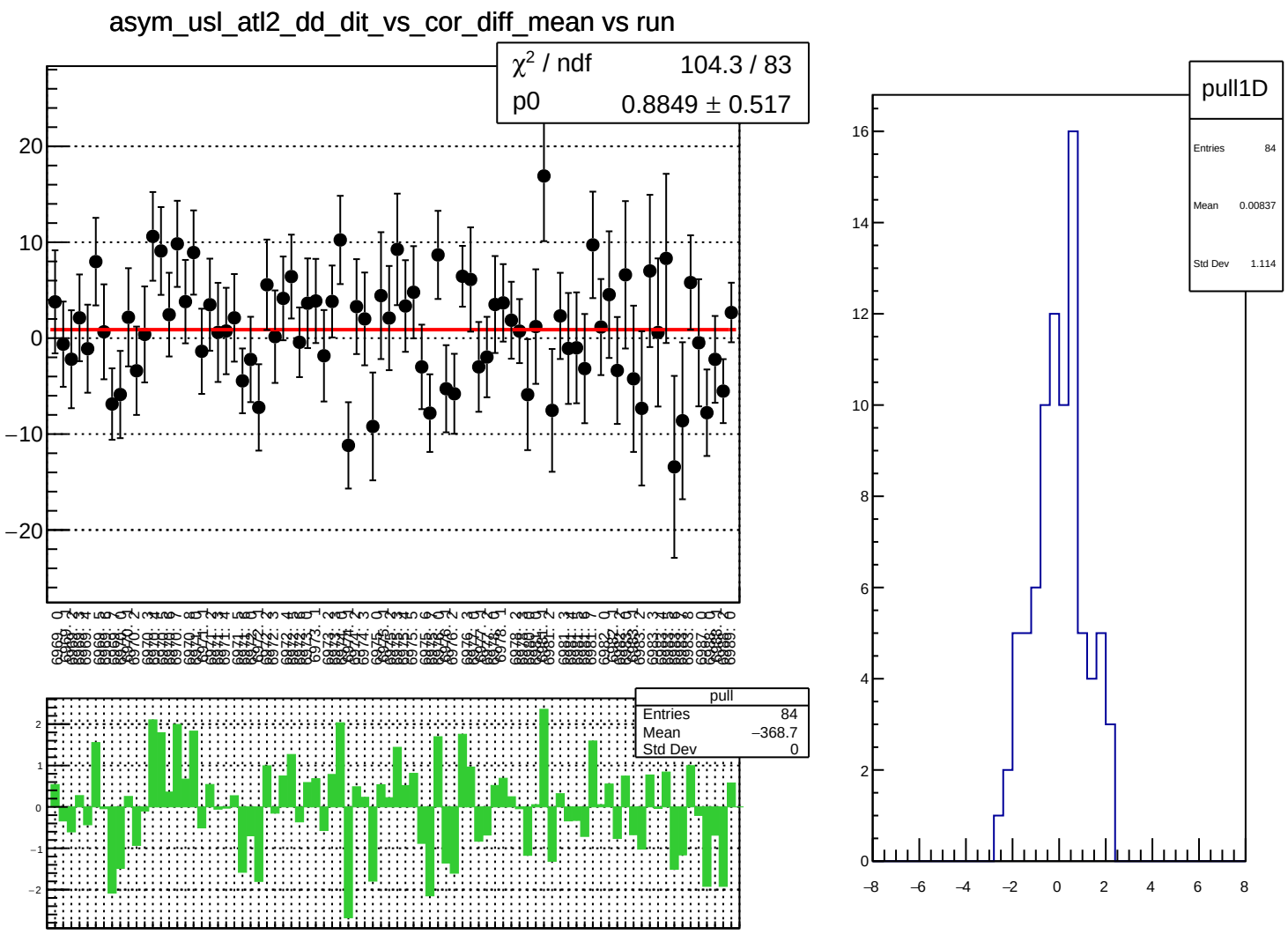

pull1D
Entries 84
Mean −0.04481
Std Dev 1.152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

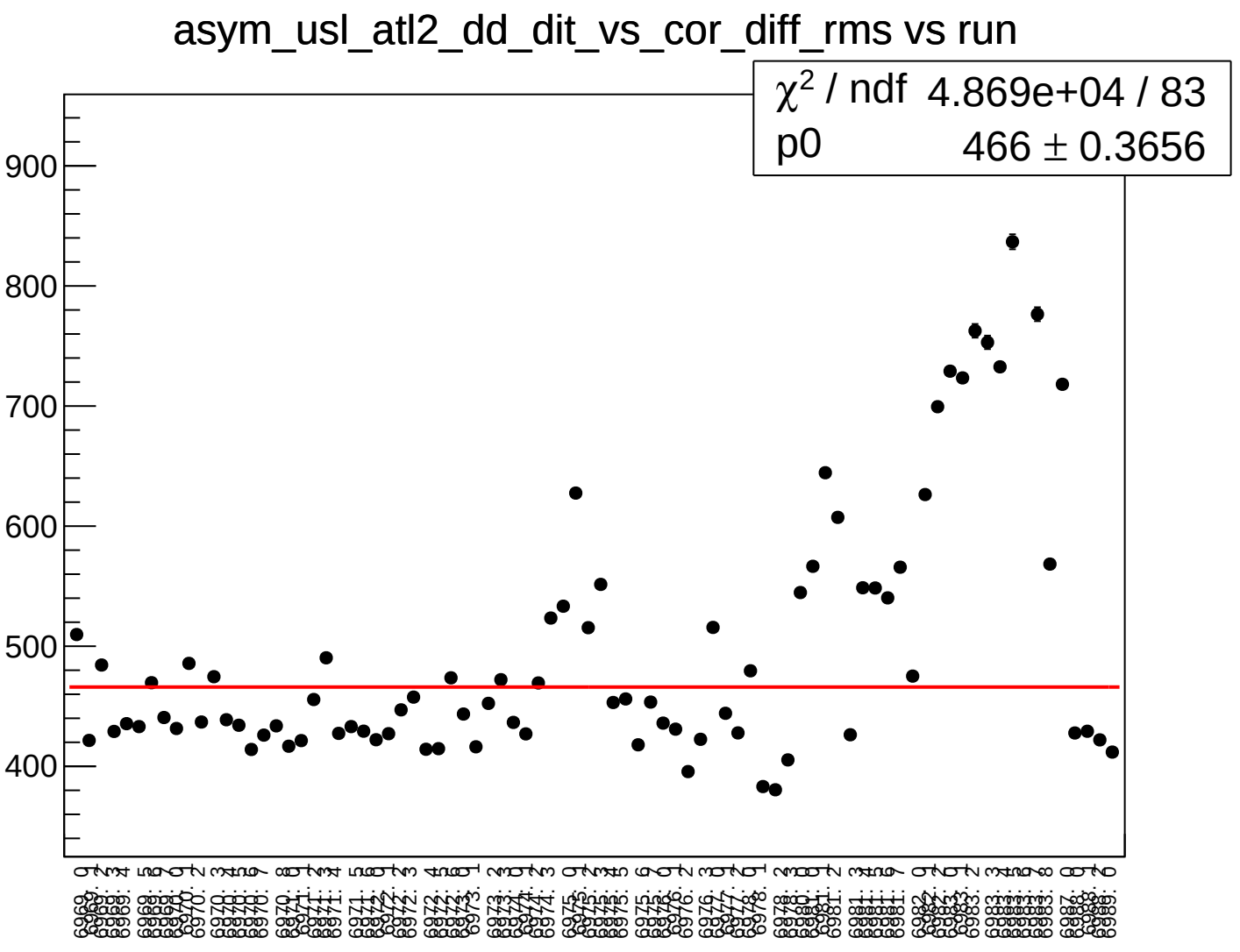

asym_usl_atl2_dd_rms vs run
χ² / ndf 5.463e+04 / 83
p0 5958 ± 4.683
8000
7000
6000
5000
4000

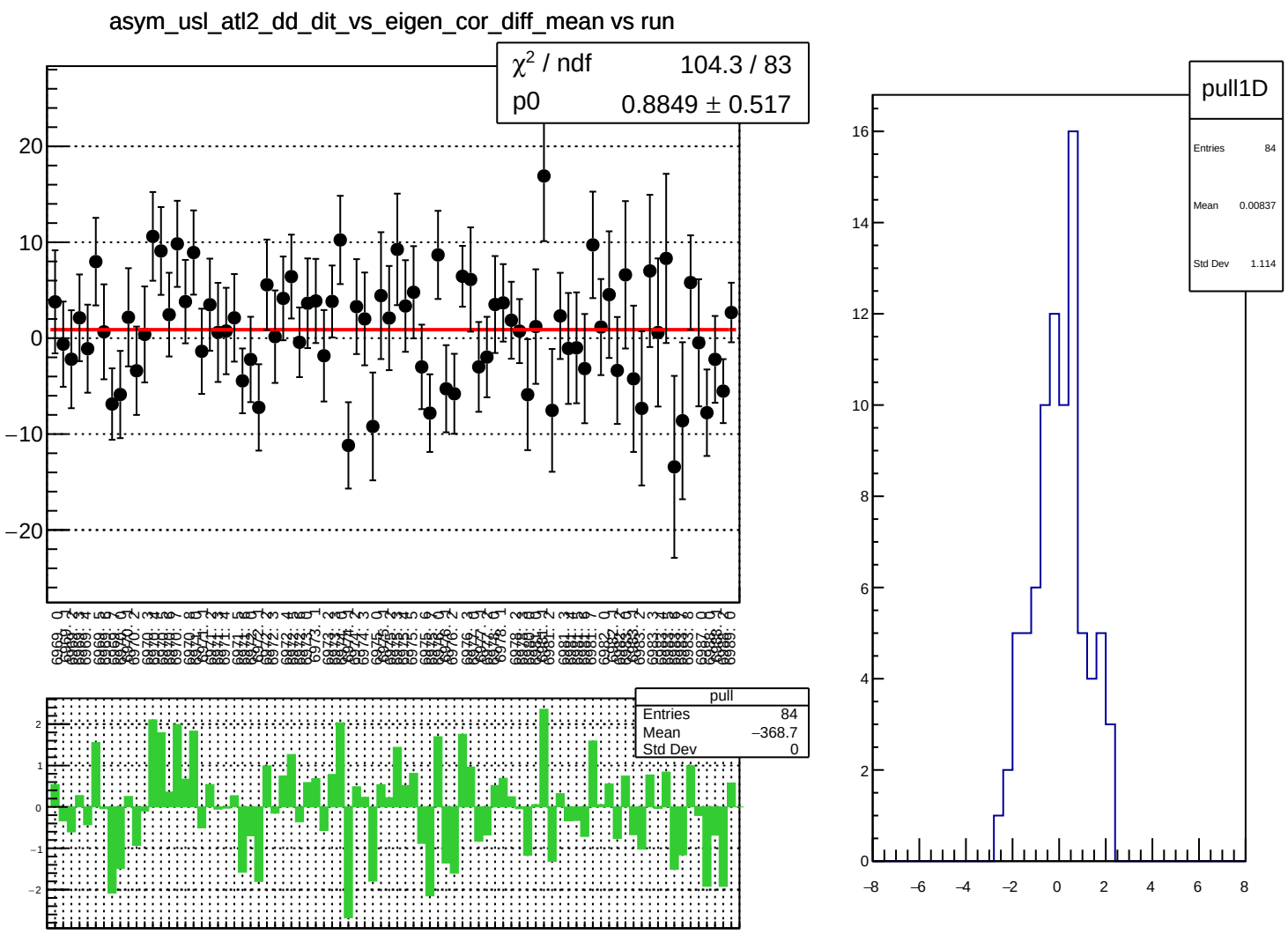

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.93 / 83
p0 1.264e−13 ± 2.435e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 84
Mean −314.6
Std Dev 0
2
1
0
−1
−2

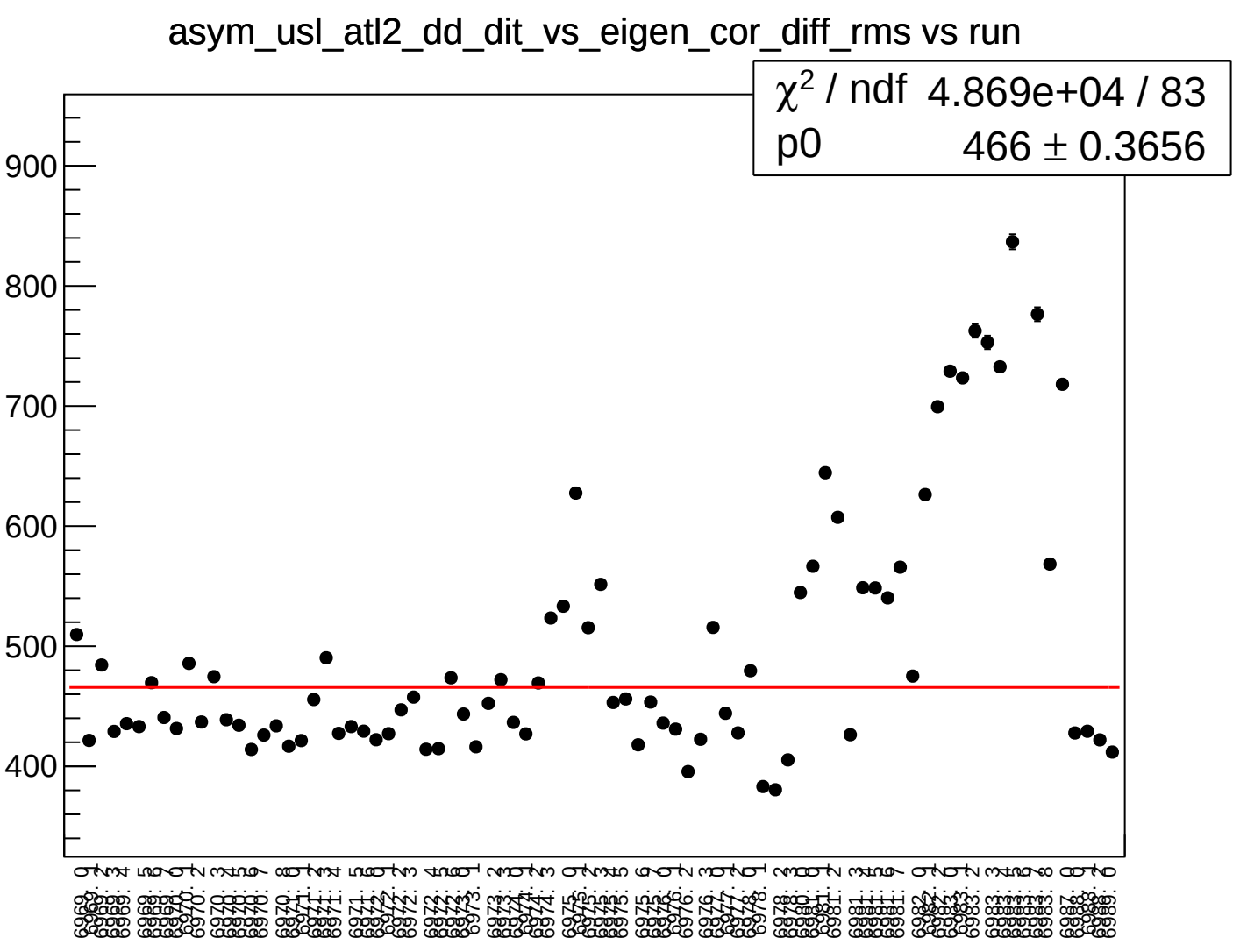

pull1D
Entries 84
Mean −0.006763
Std Dev 0.9936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

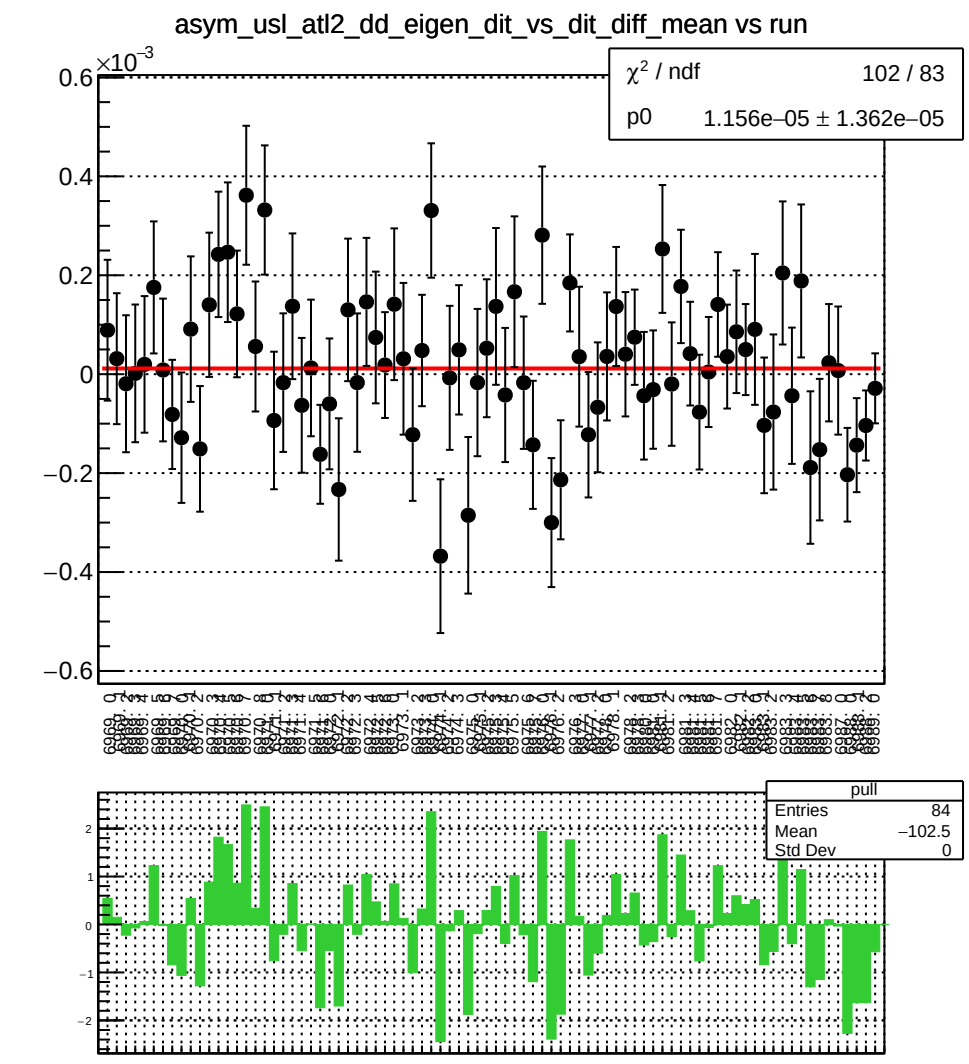

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.111e+06 / 83
p0 1.292e−10 ± 1.722e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

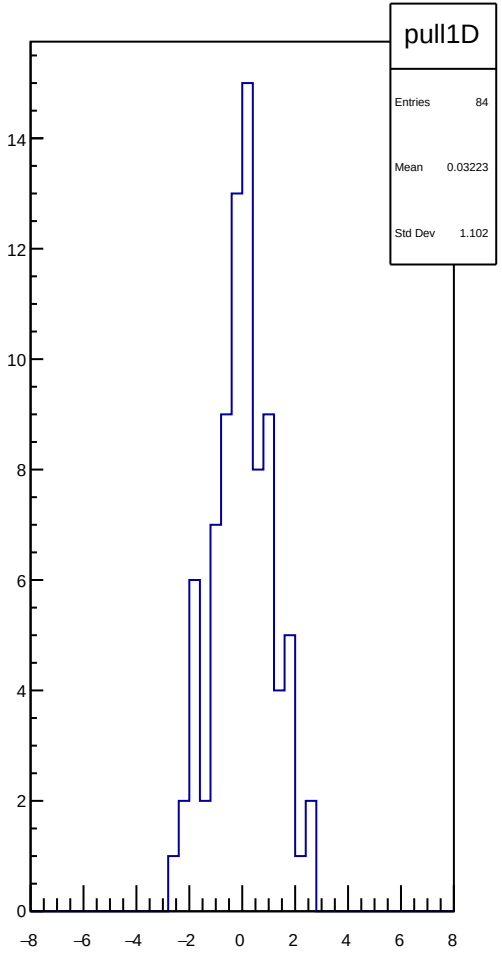

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 83
p0 0.8849 ± 0.517
pull
Entries 84
Mean −368.7
Std Dev 0
pull1D
Entries 84
Mean 0.00837
Std Dev 1.114

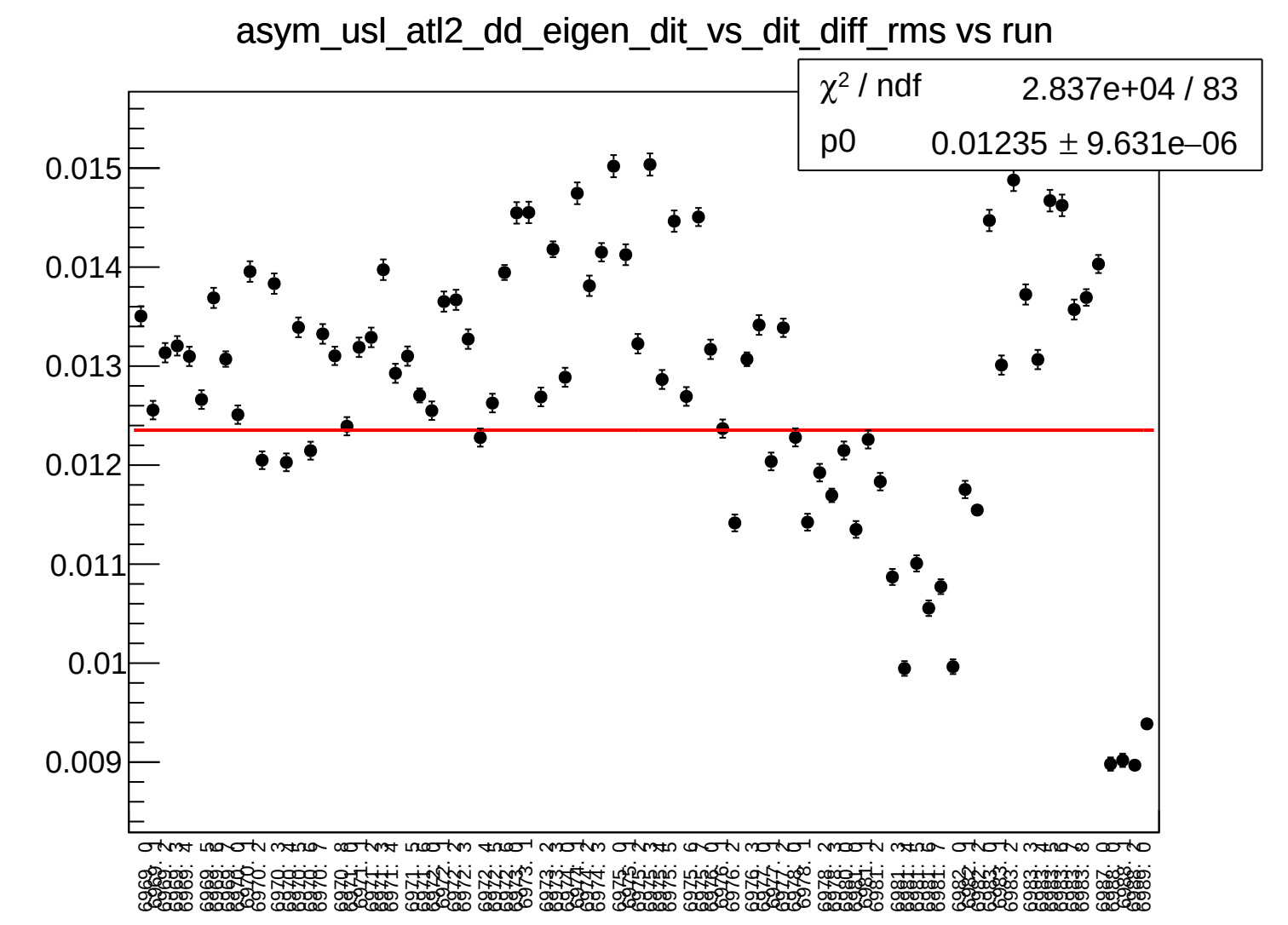

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.869e+04 / 83
p0 466 ± 0.3656
900
800
700
600
500
400

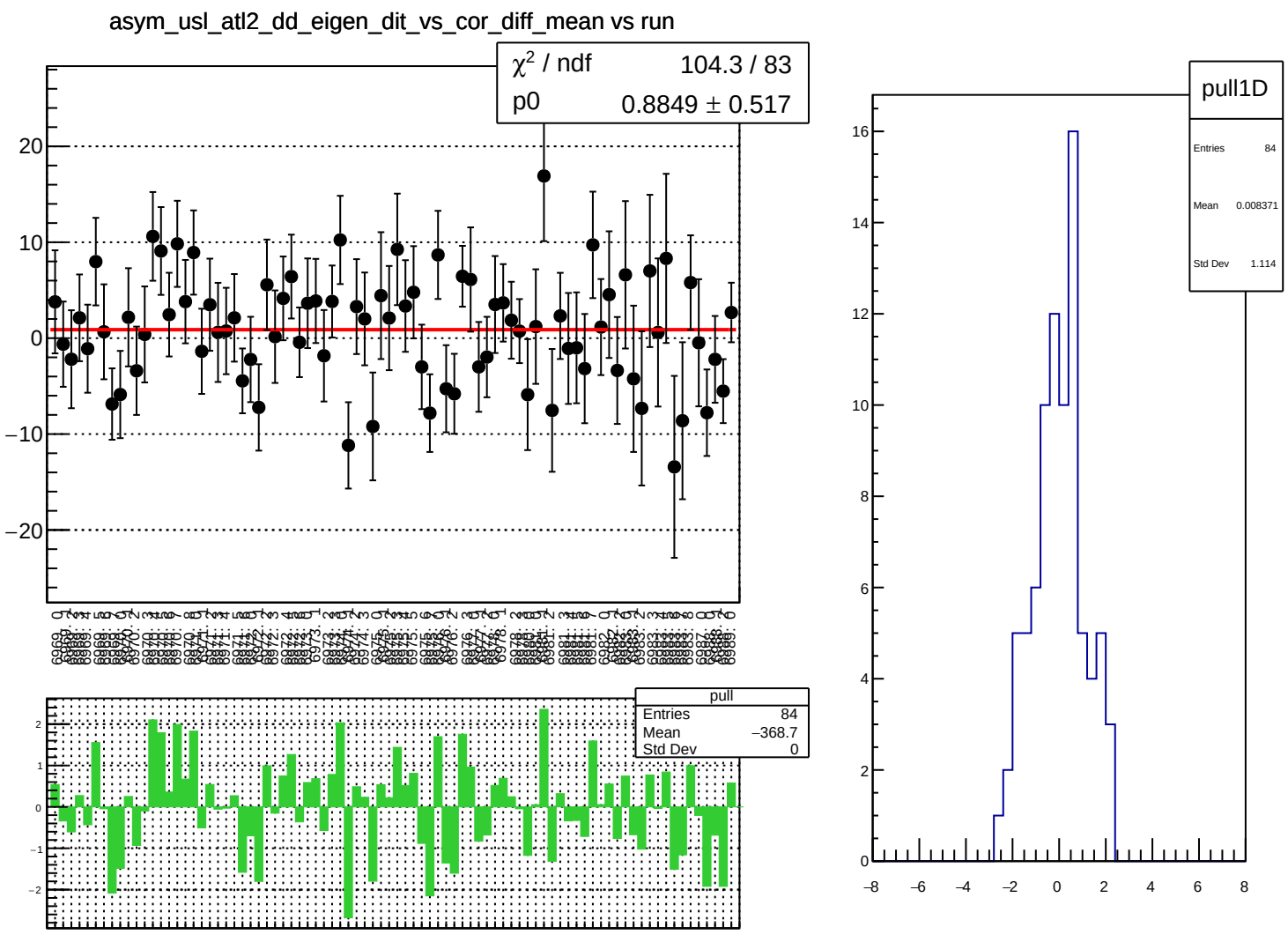

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 83
p0 0.8849 ± 0.517
pull
Entries 84
Mean −368.7
Std Dev 0
pull1D
Entries 84
Mean 0.00837
Std Dev 1.114

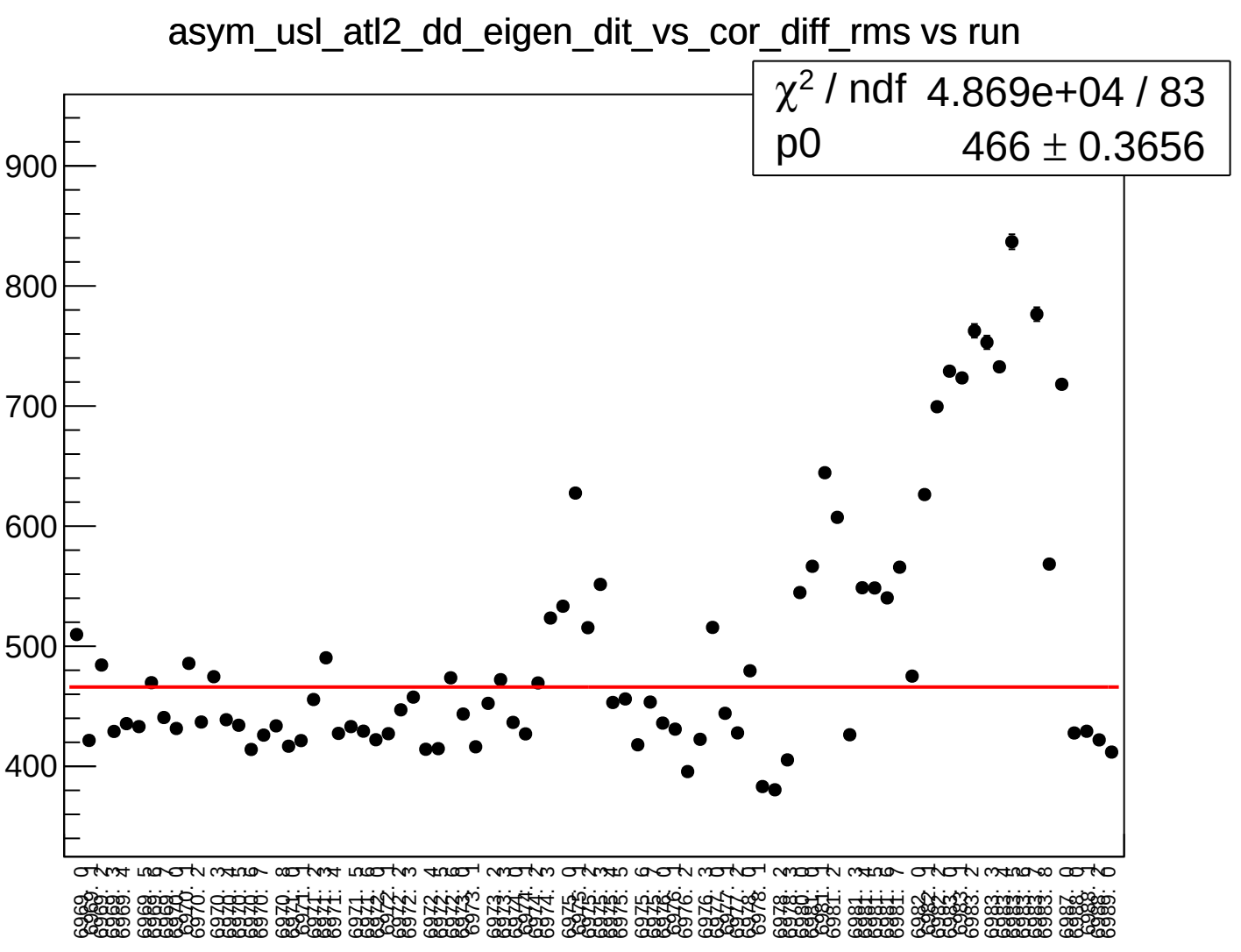

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.869e+04 / 83
p0 466 ± 0.3656
900
800
700
600
500
400

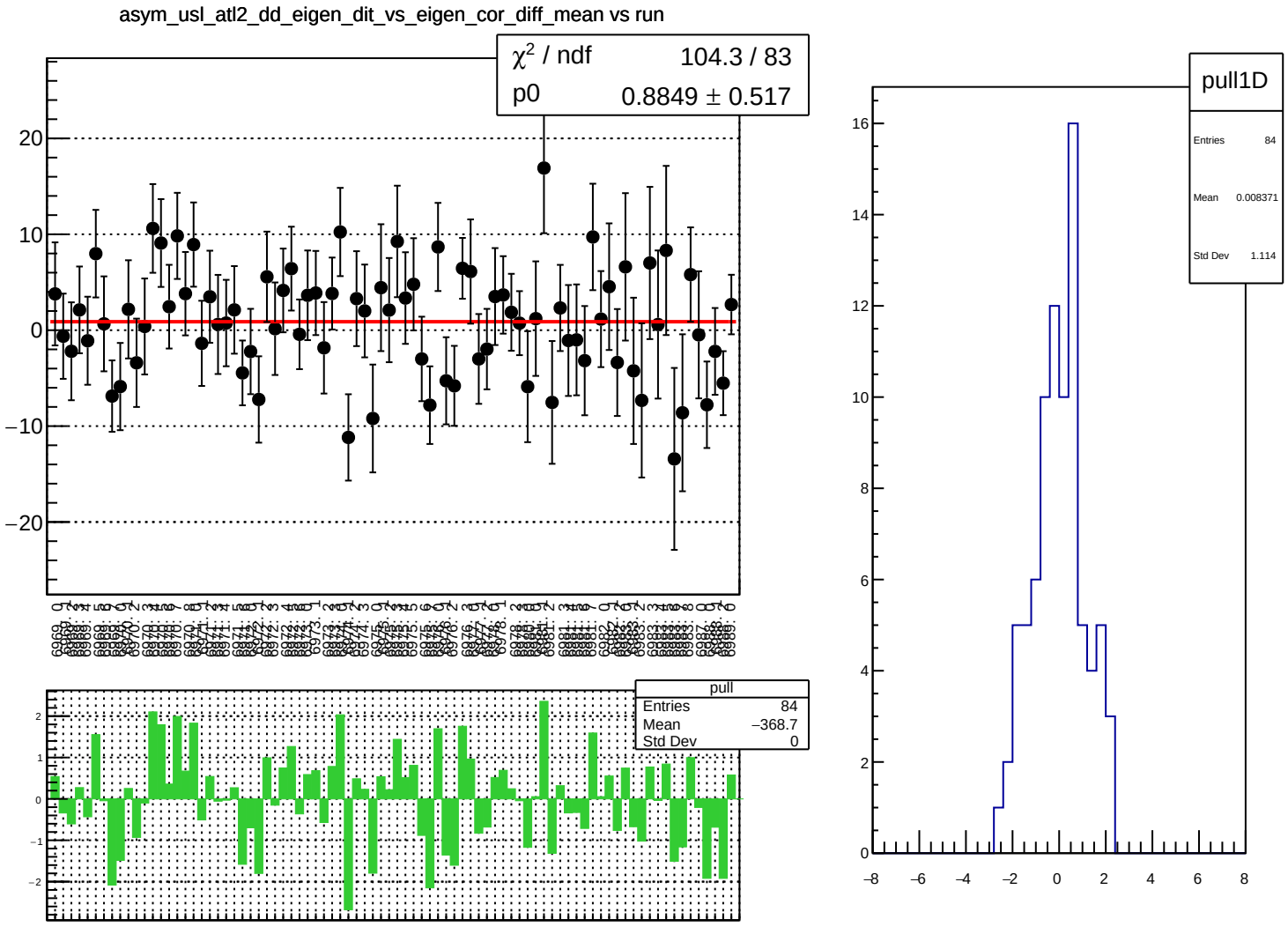

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102 / 83
p0 1.156e−05 ± 1.362e−05
pull
Entries 84
Mean −102.5
Std Dev 0

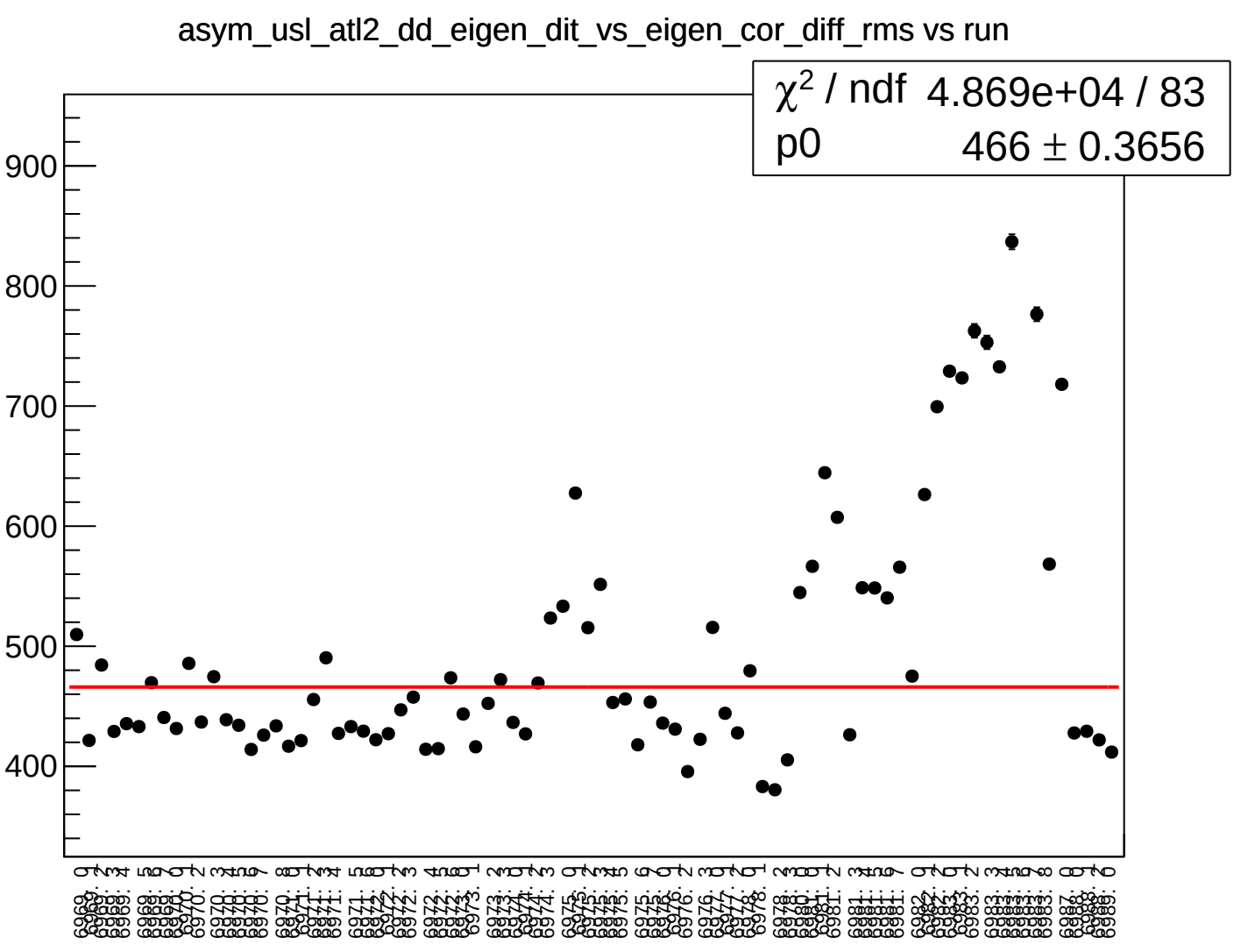

pull1D
Entries 84
Mean 0.03223
Std Dev 1.102

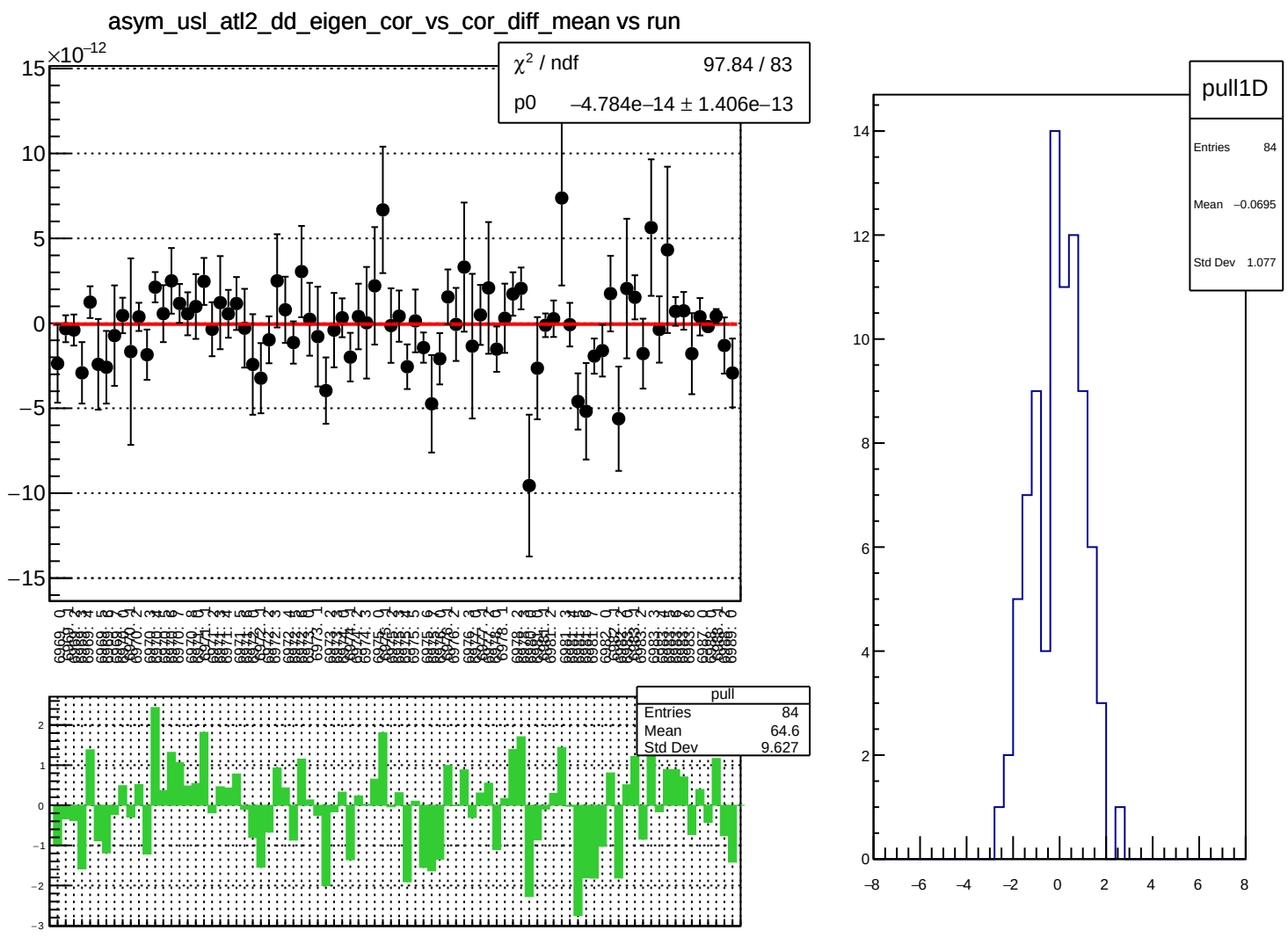

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.837e+04 / 83
p0 0.01235 ± 9.631e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

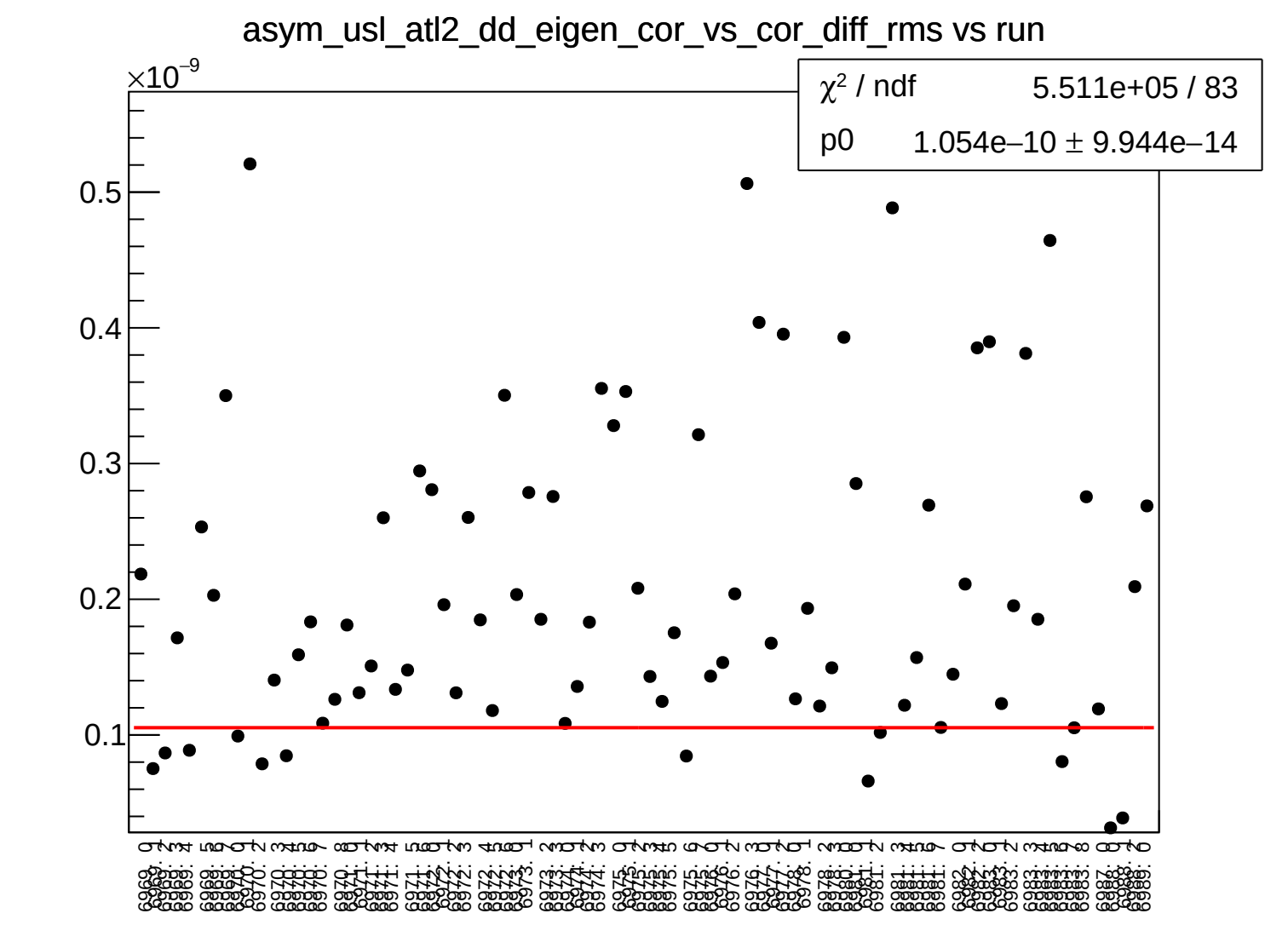

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 83
p0 0.8849 ± 0.517
pull
Entries 84
Mean −368.7
Std Dev 0
pull1D
Entries 84
Mean 0.008371
Std Dev 1.114

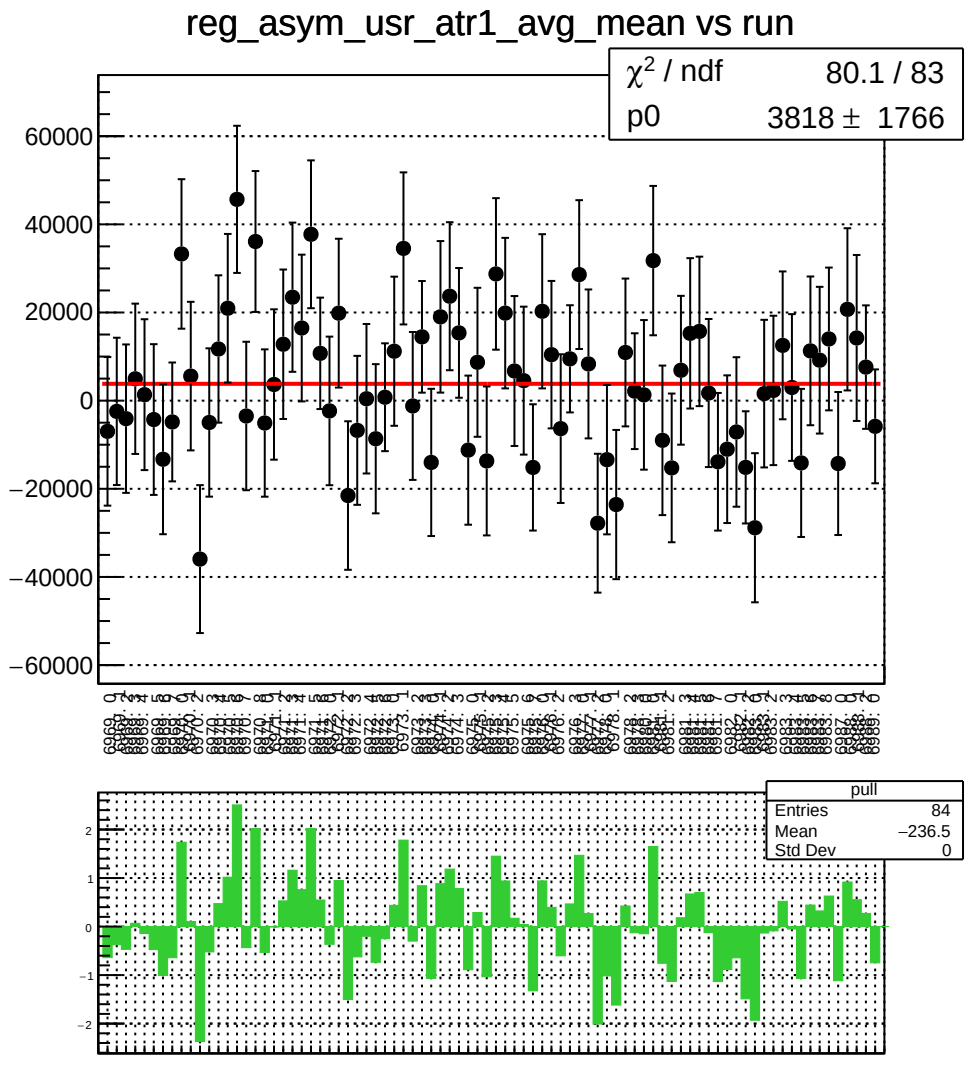

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.869e+04 / 83
p0 466 ± 0.3656
900
800
700
600
500
400

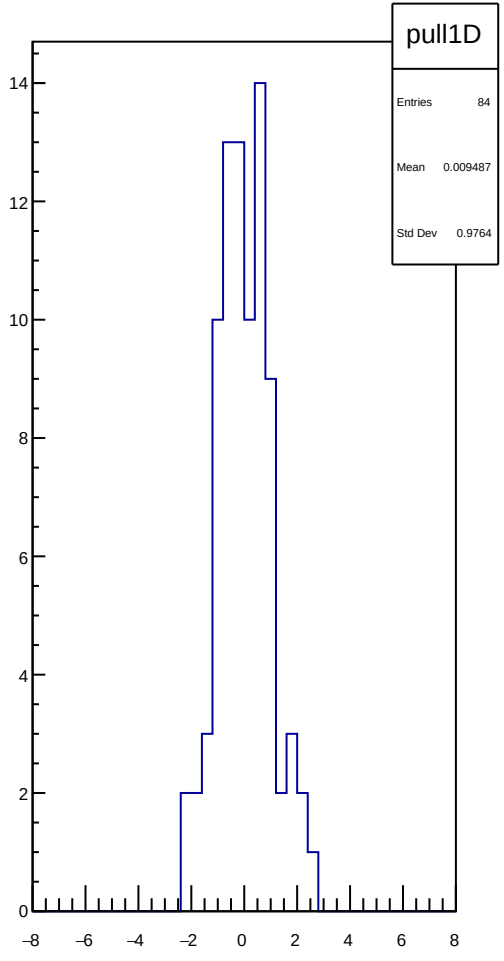

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 83
p0 0.8849 ± 0.517
pull
Entries 84
Mean −368.7
Std Dev 0
pull1D
Entries 84
Mean 0.008371
Std Dev 1.114

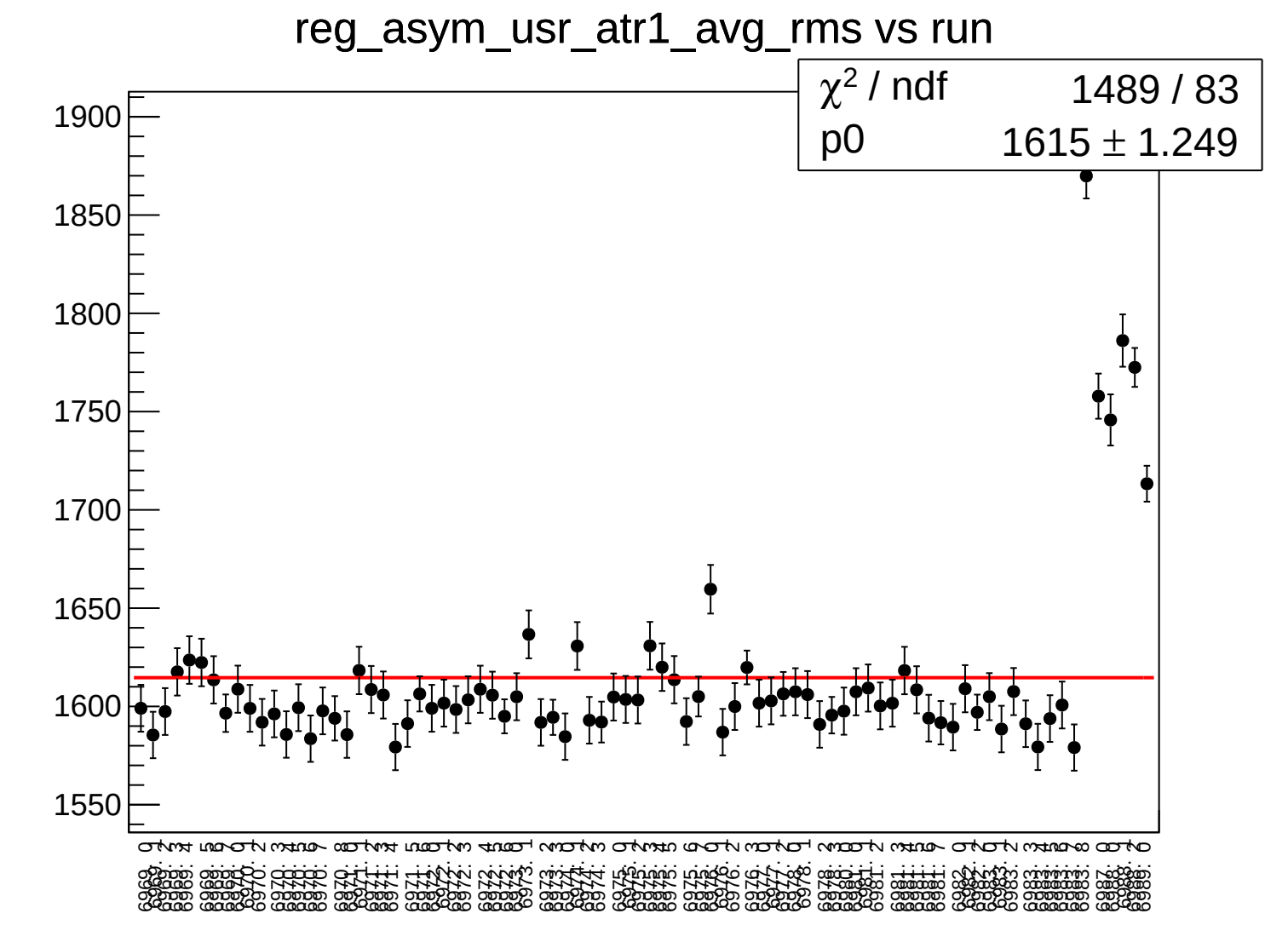

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.869e+04 / 83
p0 466 ± 0.3656
900
800
700
600
500
400

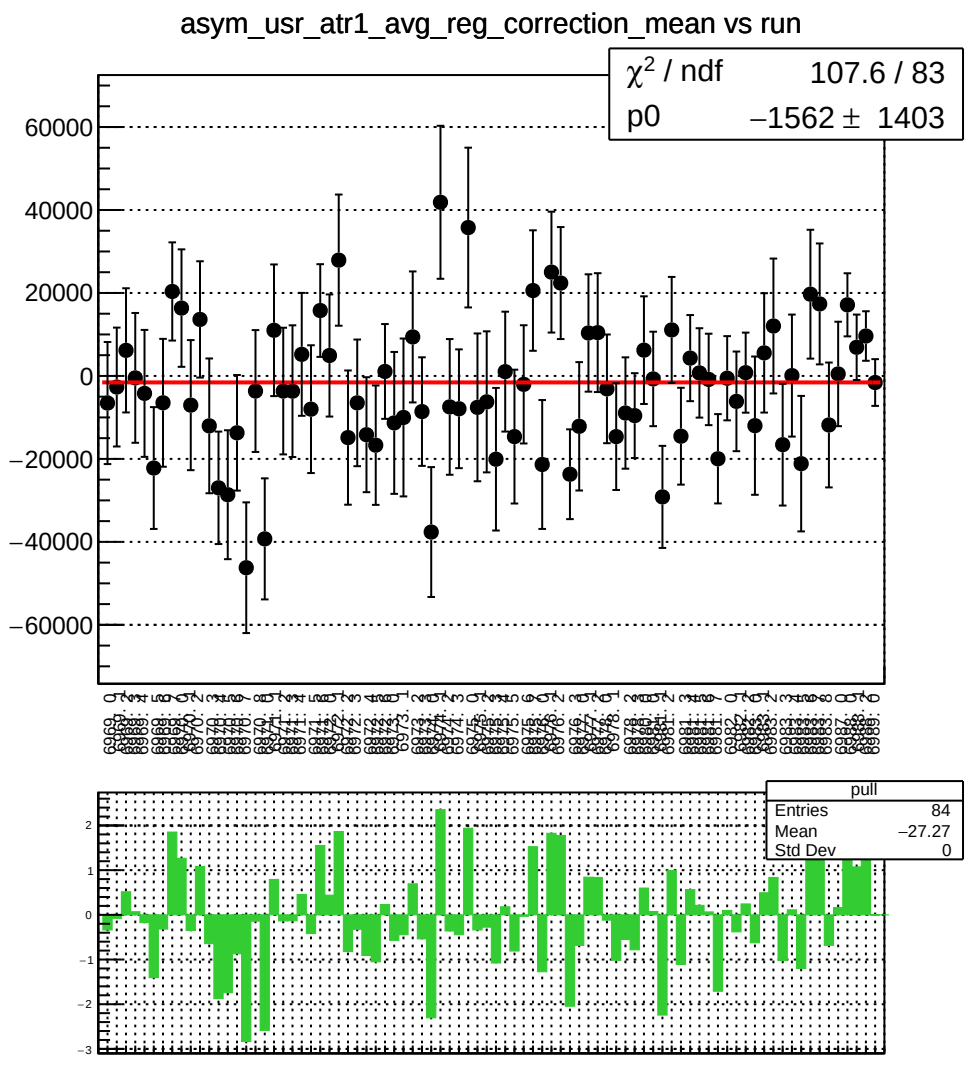

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.84 / 83
p0 −4.784e−14 ± 1.406e−13
pull
Entries 84
Mean 64.6
Std Dev 9.627
pull1D
Entries 84
Mean −0.0695
Std Dev 1.077

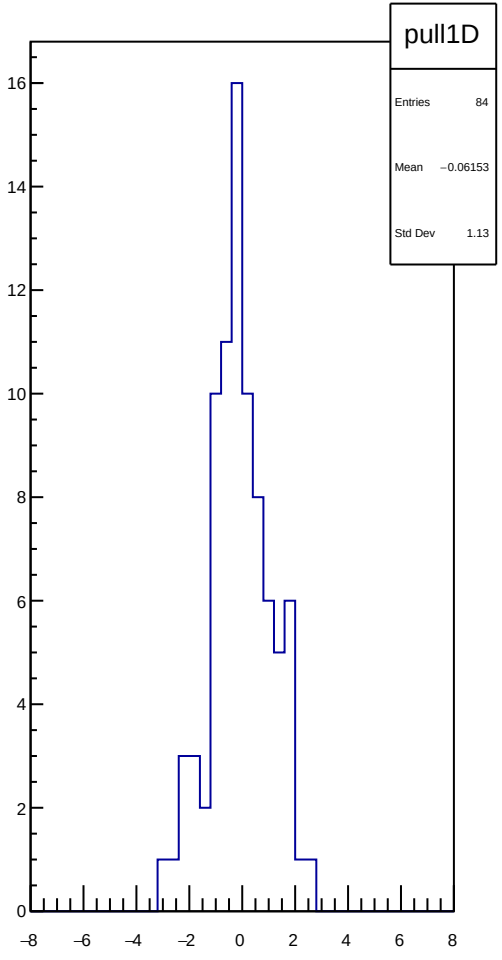

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.511e+05 / 83
p0 1.054e−10 ± 9.944e−14
0.5
0.4
0.3
0.2
0.1

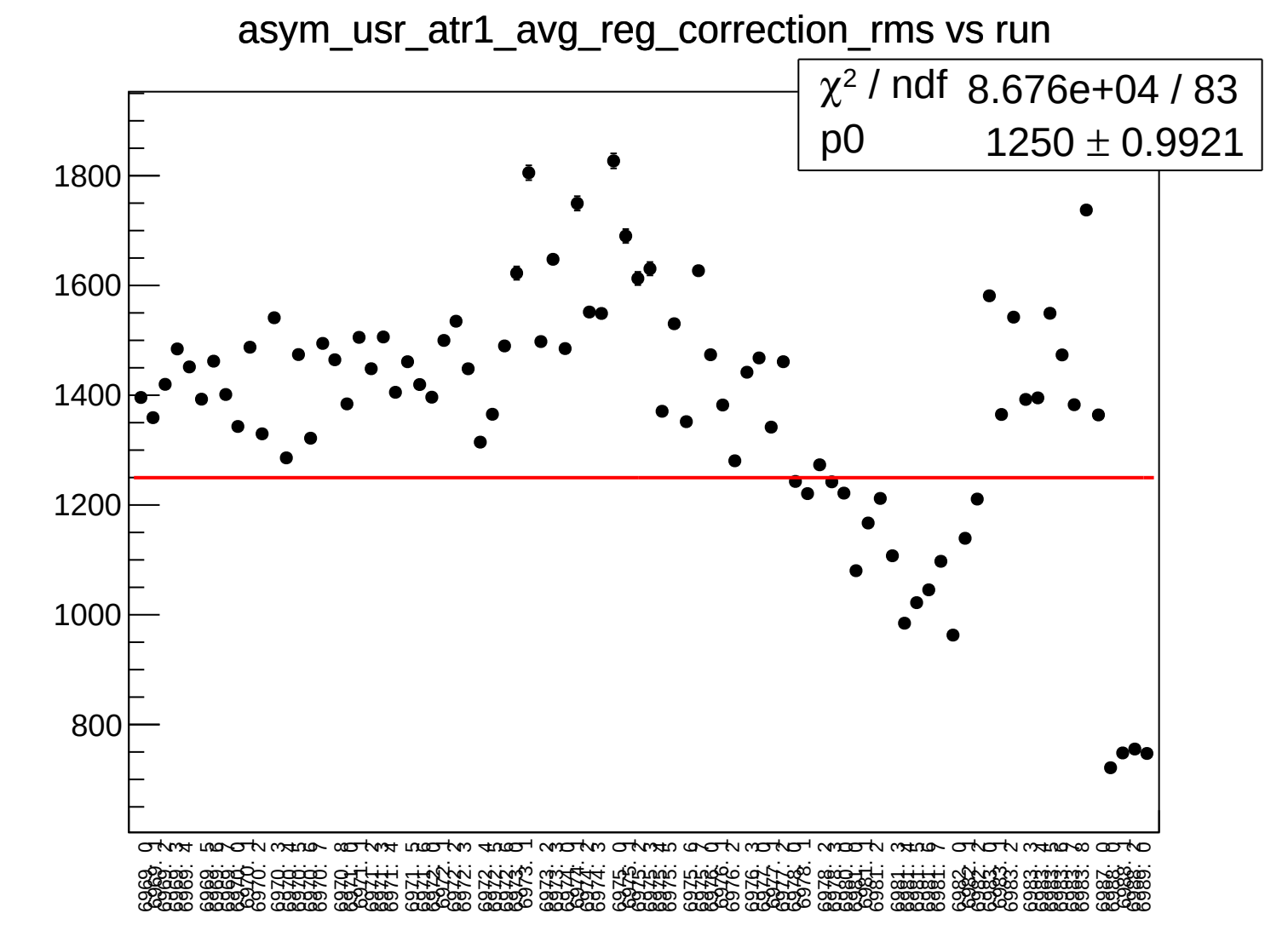

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 80.1 / 83
p0 3818 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −236.5
Std Dev 0
2
1
0
−1
−2

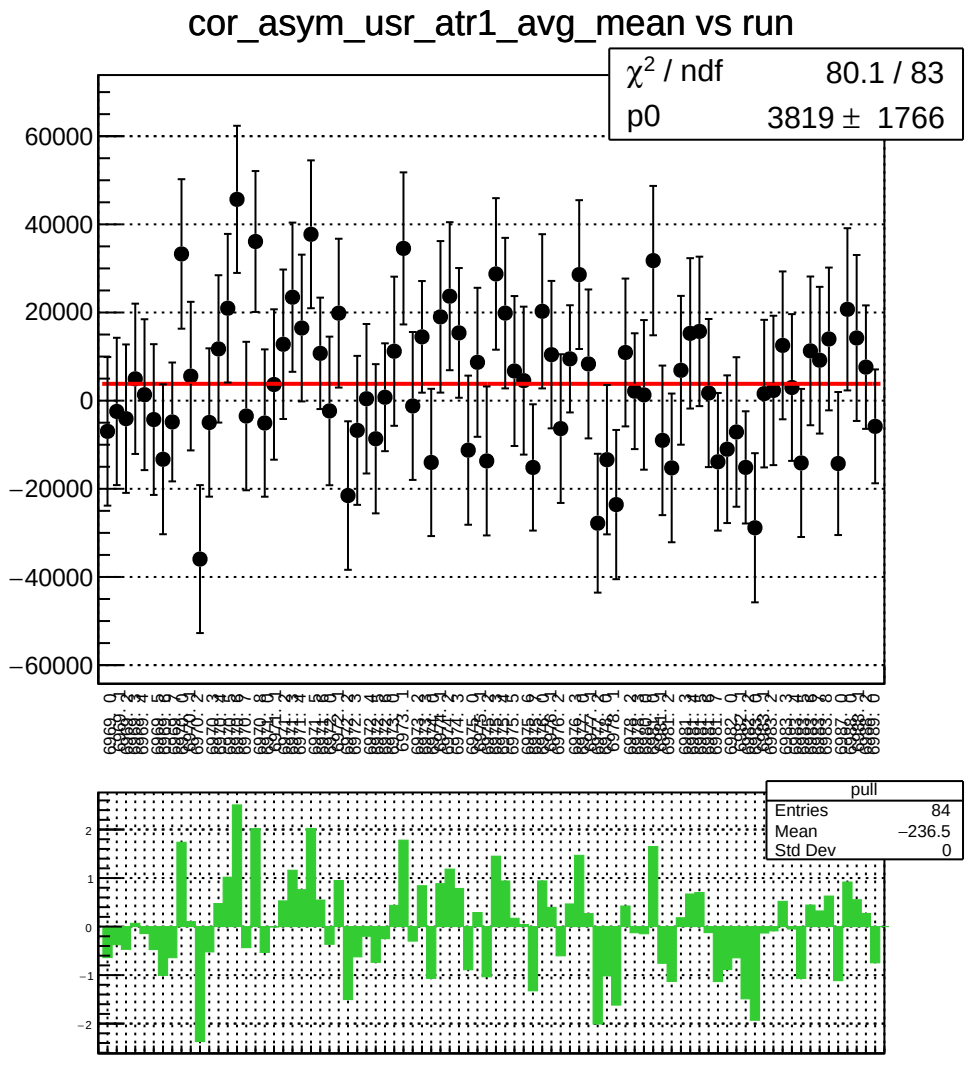

pull1D
Entries 84
Mean 0.009487
Std Dev 0.9764
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

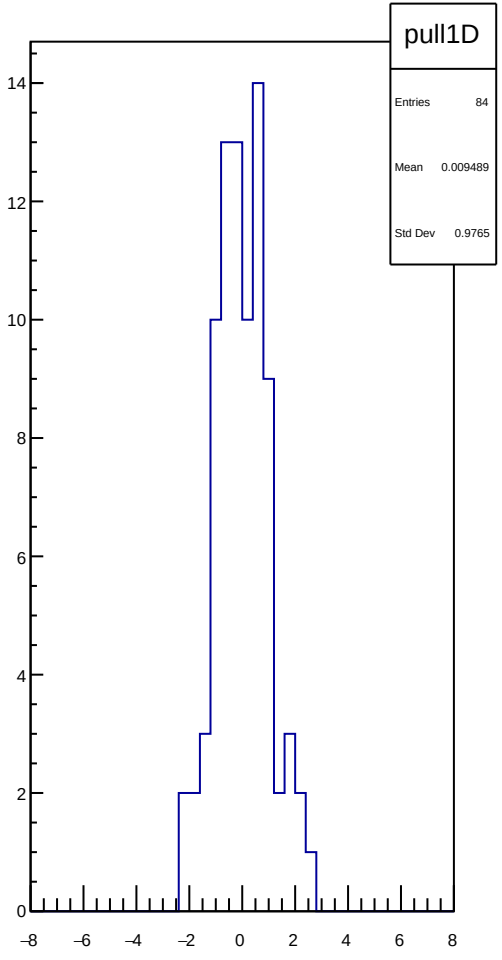

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 1489 / 83
p0 1615 ± 1.249
1900
1850
1800
1750
1700
1650
1600
1550

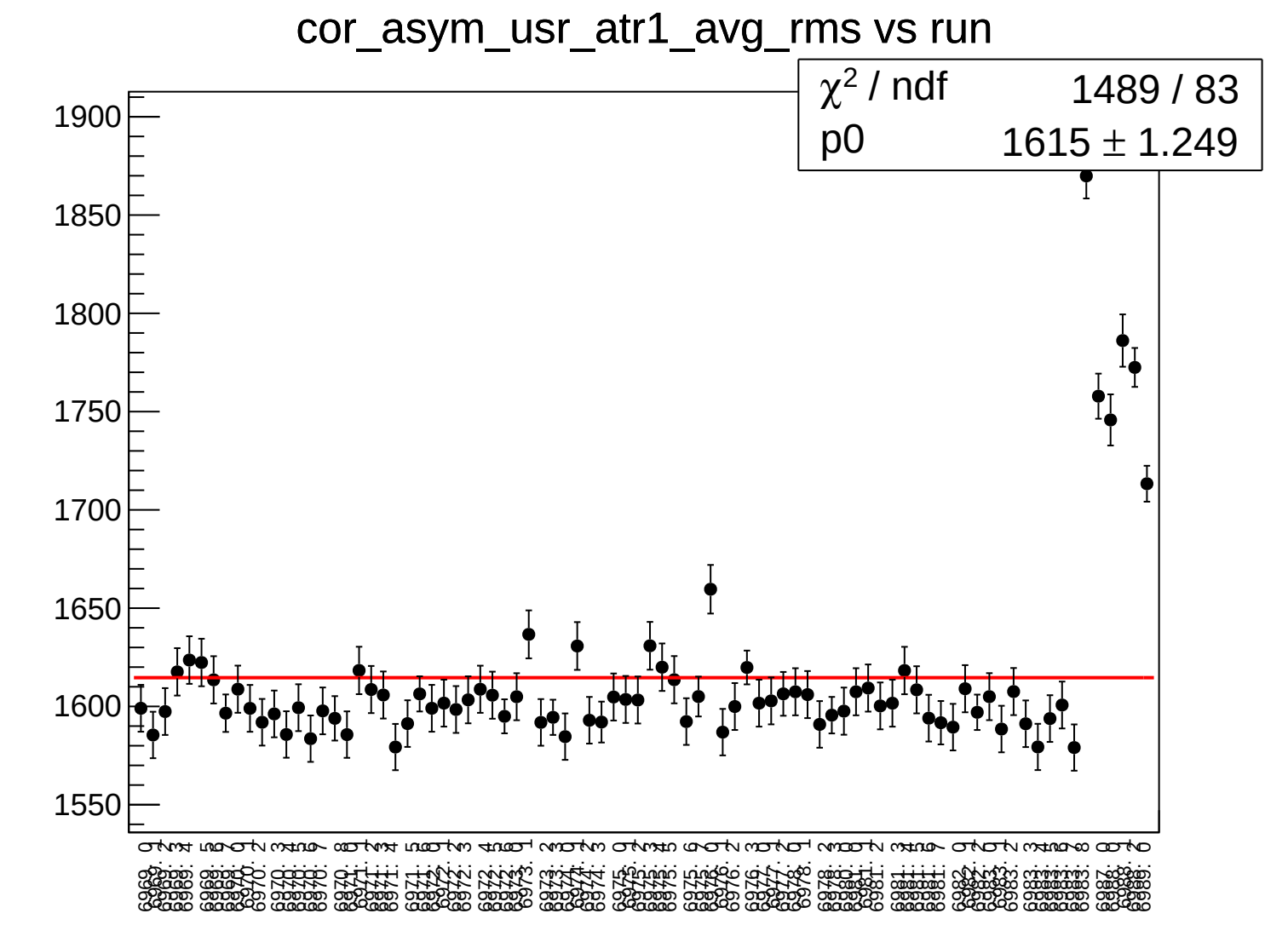

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 107.6 / 83
p0 −1562 ± 1403
pull
Entries 84
Mean −27.27
Std Dev 0

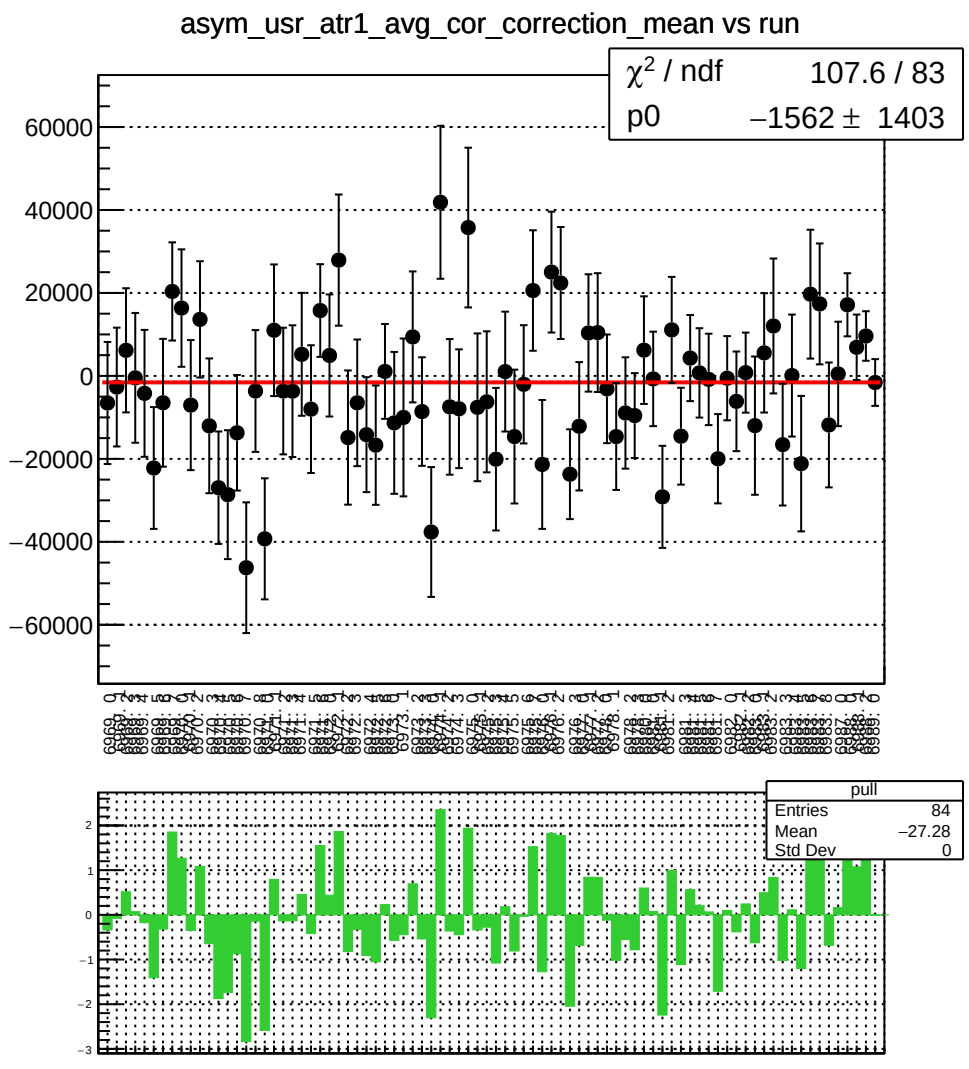

pull1D
Entries 84
Mean −0.06153
Std Dev 1.13

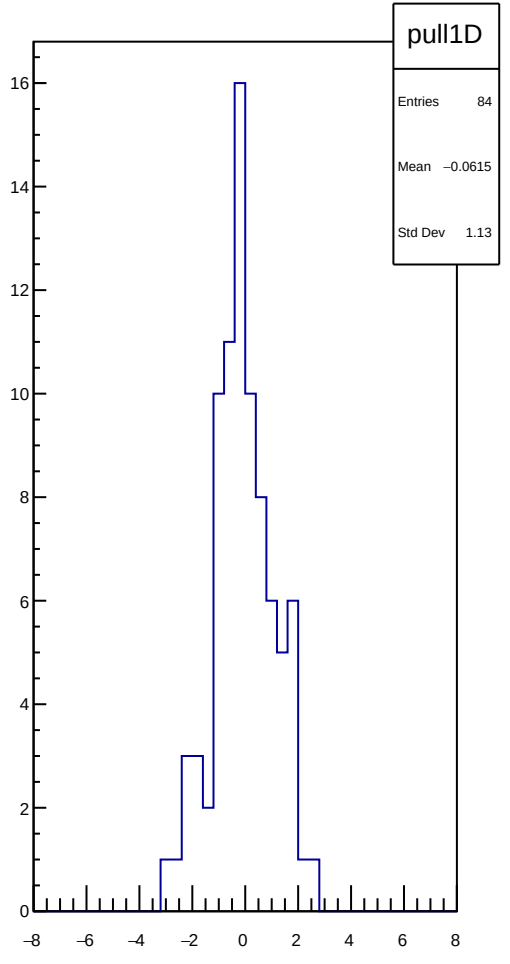

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 8.676e+04 / 83
p0 1250 ± 0.9921
1800
1600
1400
1200
1000
800

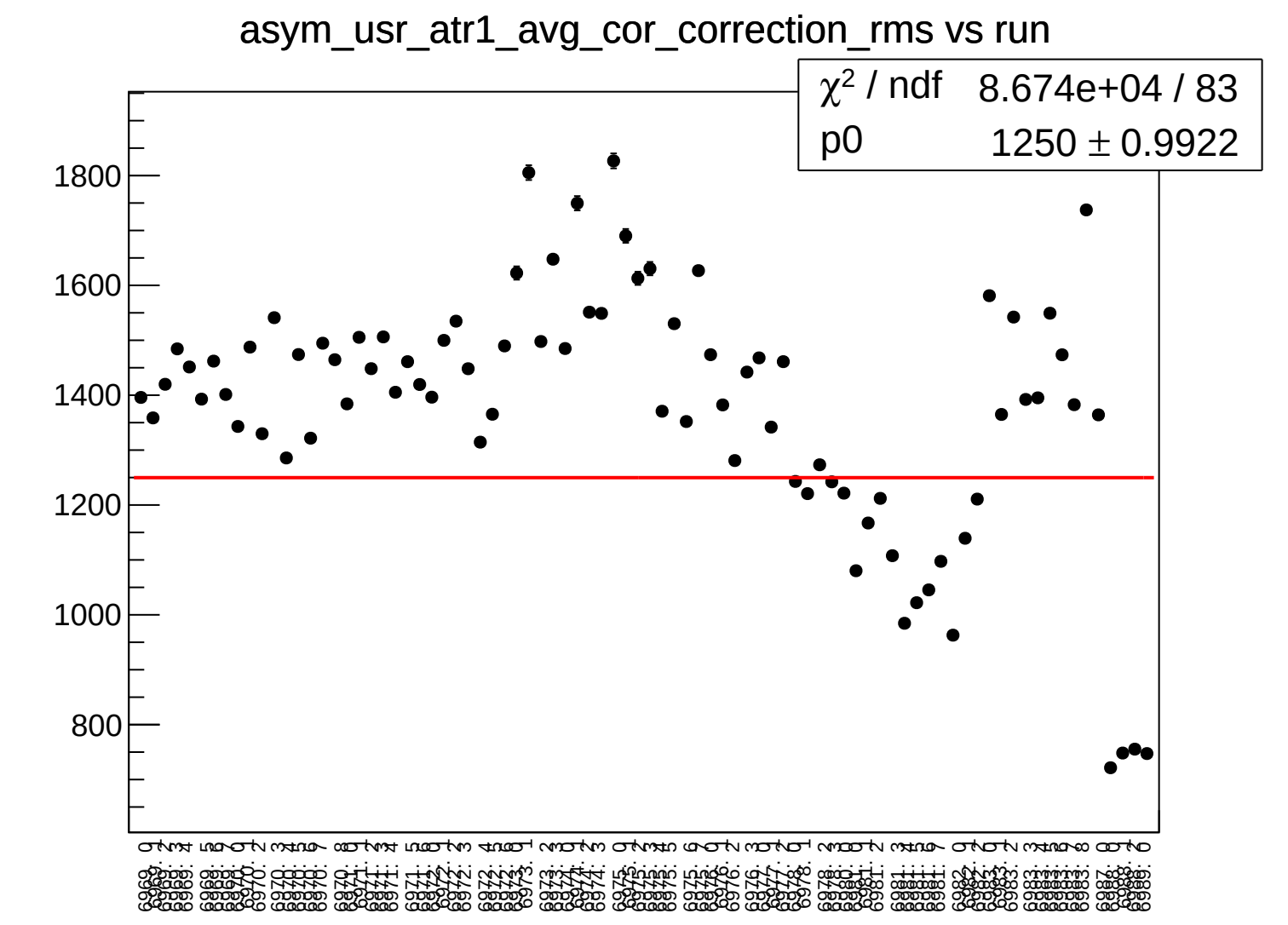

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 80.1 / 83
p0 3819 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −236.5
Std Dev 0
2
1
0
−1
−2

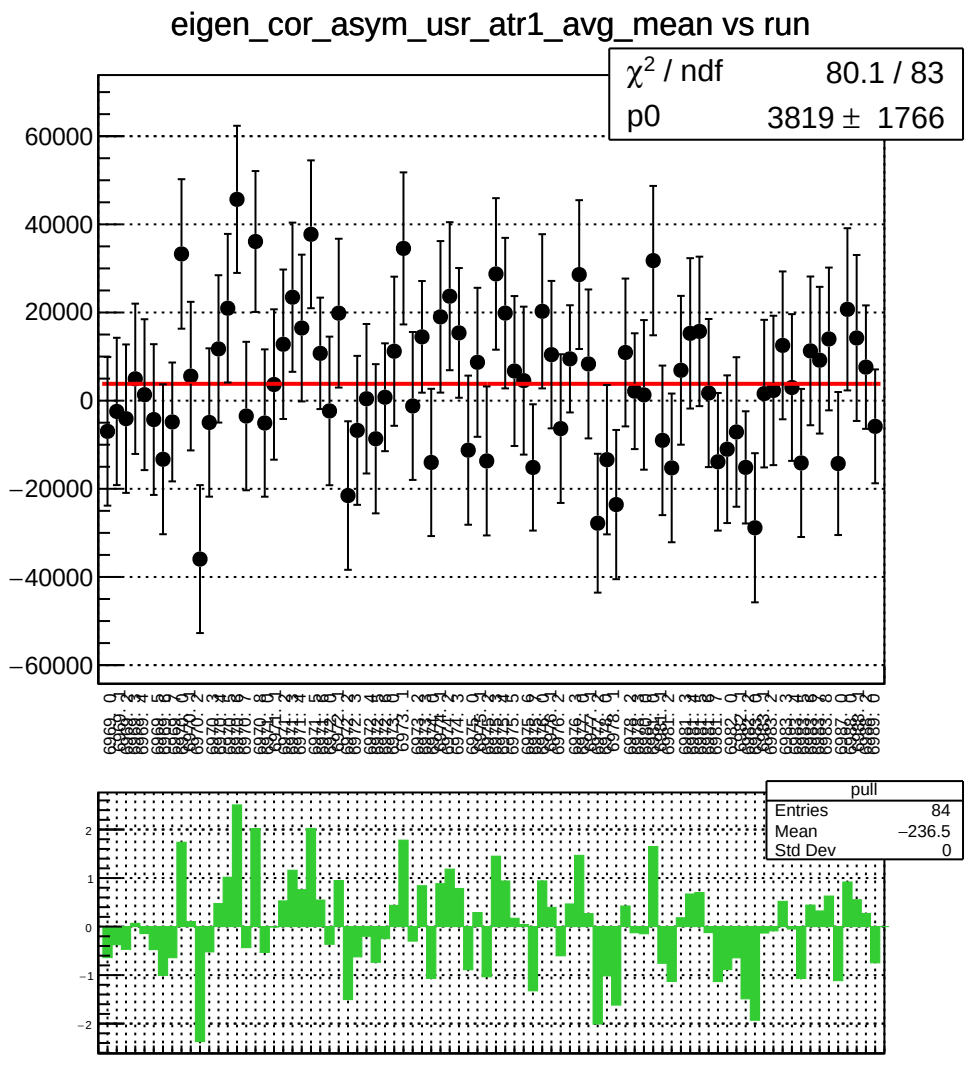

pull1D
Entries 84
Mean 0.009489
Std Dev 0.9765
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

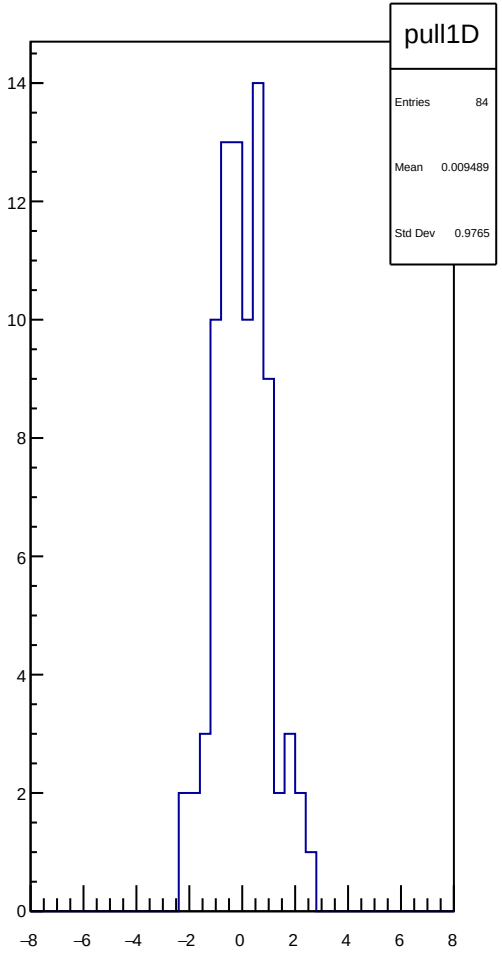

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 1489 / 83
p0 1615 ± 1.249
1900
1850
1800
1750
1700
1650
1600
1550

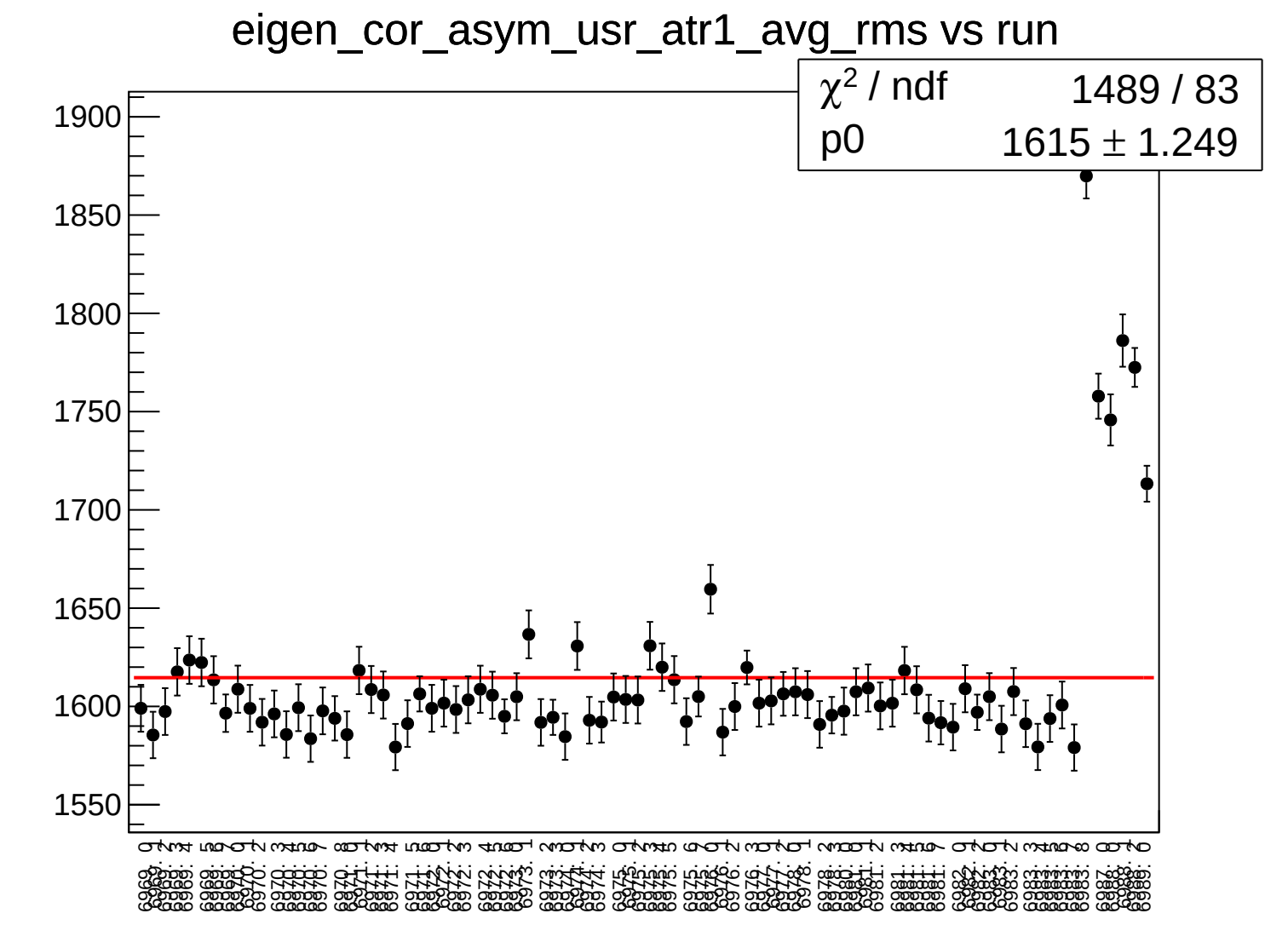

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 107.6 / 83
p0 −1562 ± 1403
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −27.28
Std Dev 0
2
1
0
−1
−2
−3

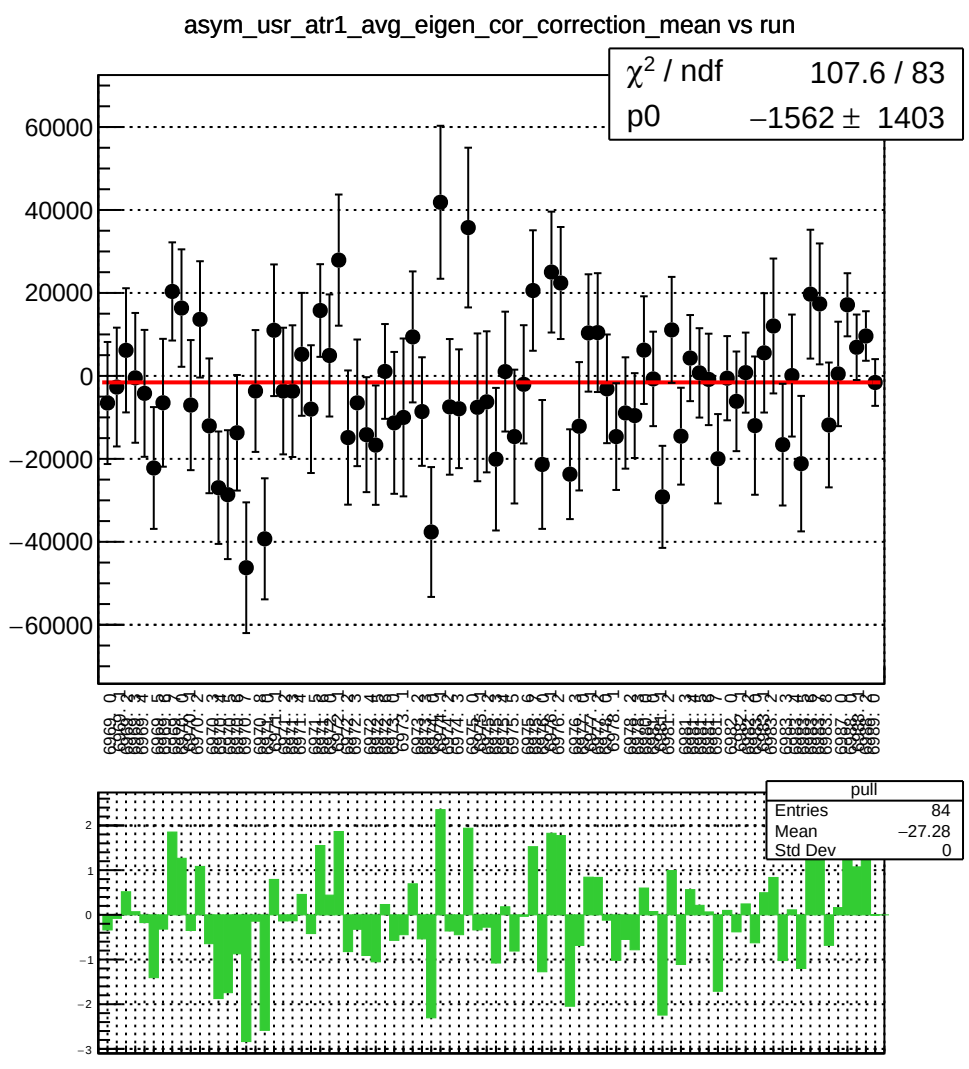

pull1D
Entries 84
Mean −0.0615
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

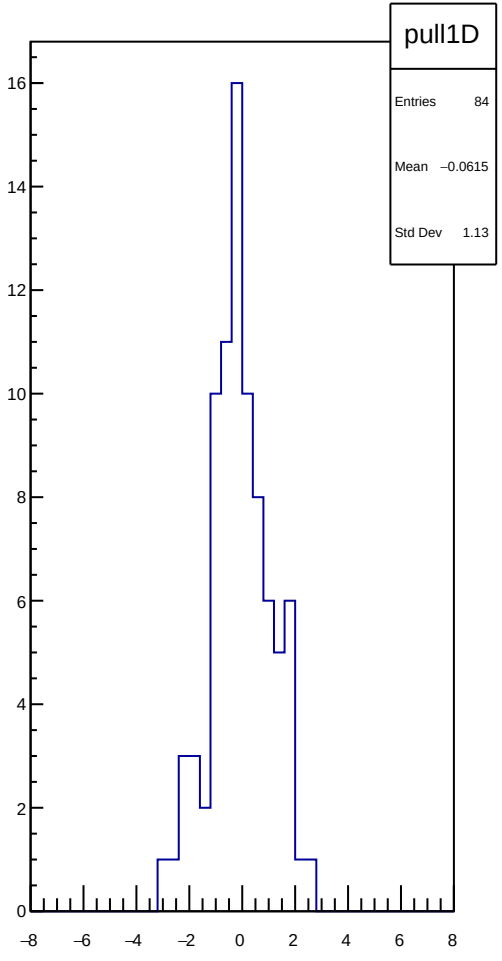

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 8.674e+04 / 83
p0 1250 ± 0.9922
1800
1600
1400
1200
1000
800

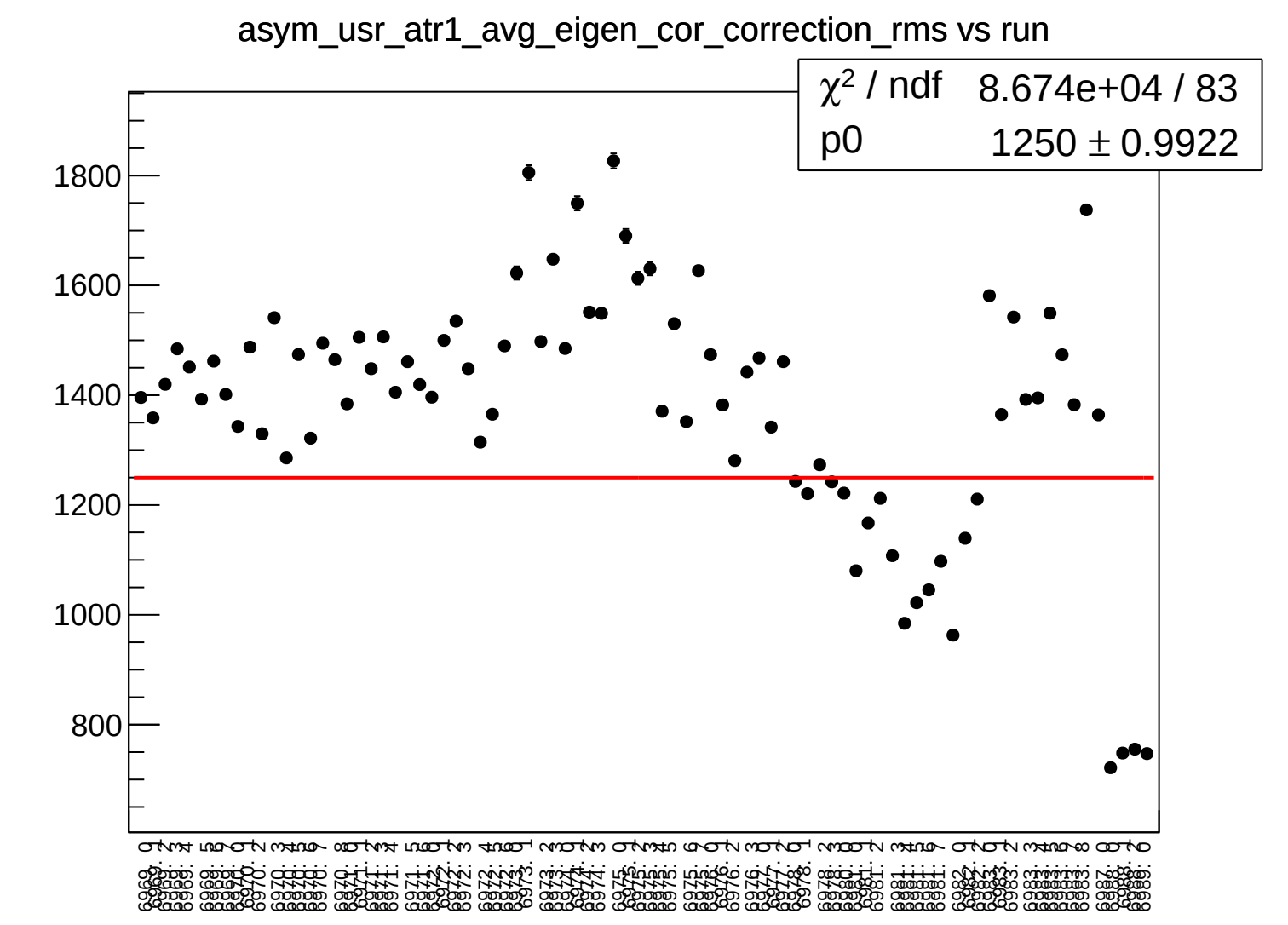

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 80.1 / 83
p0 3819 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −236.5
Std Dev 0
2
1
0
−1
−2

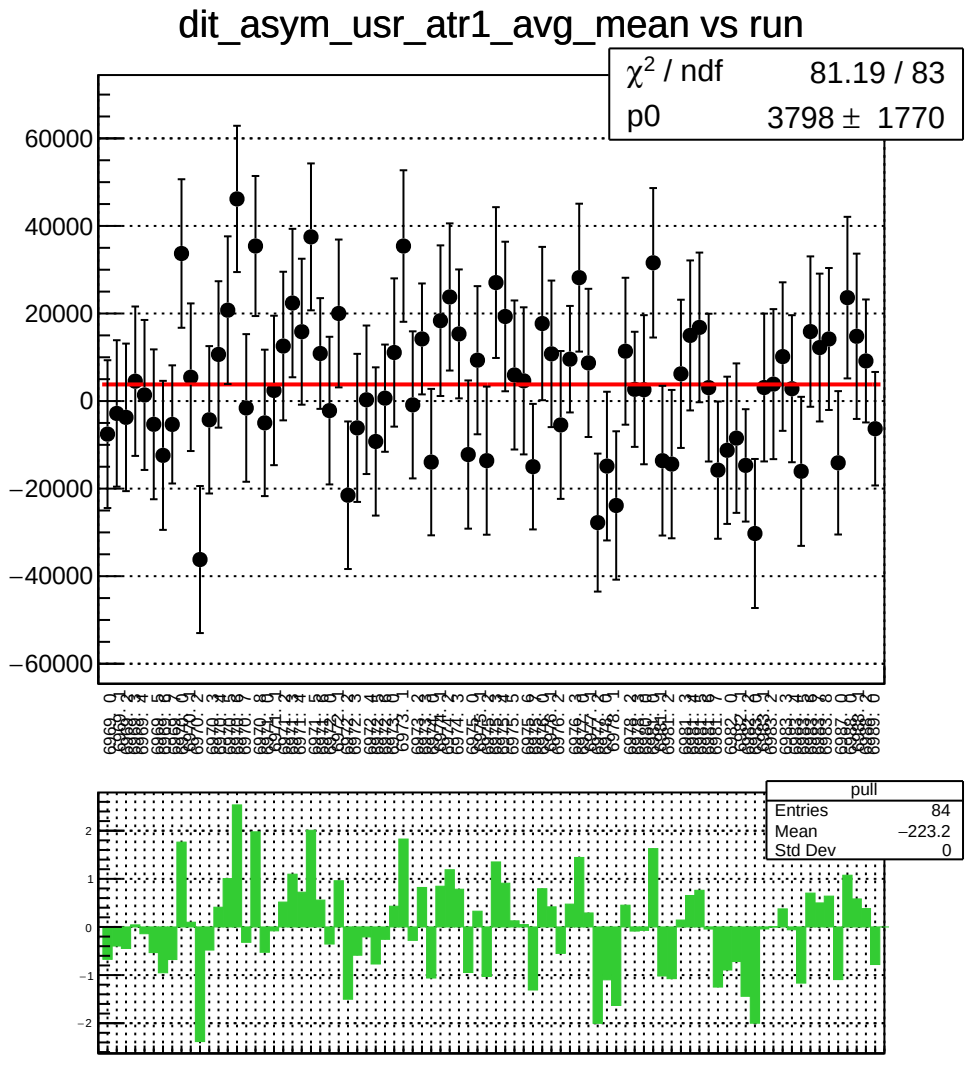

pull1D
Entries 84
Mean 0.009489
Std Dev 0.9765
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

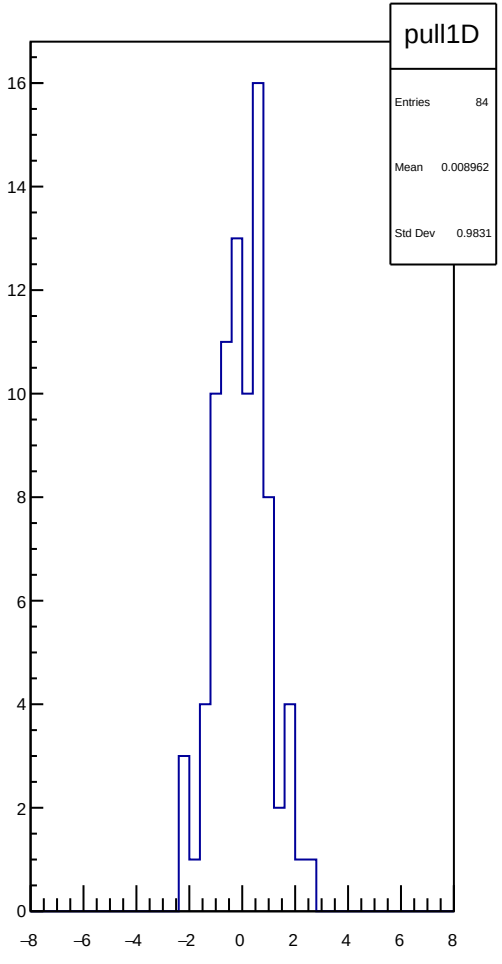

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 1489 / 83
p0 1615 ± 1.249
1900
1850
1800
1750
1700
1650
1600
1550

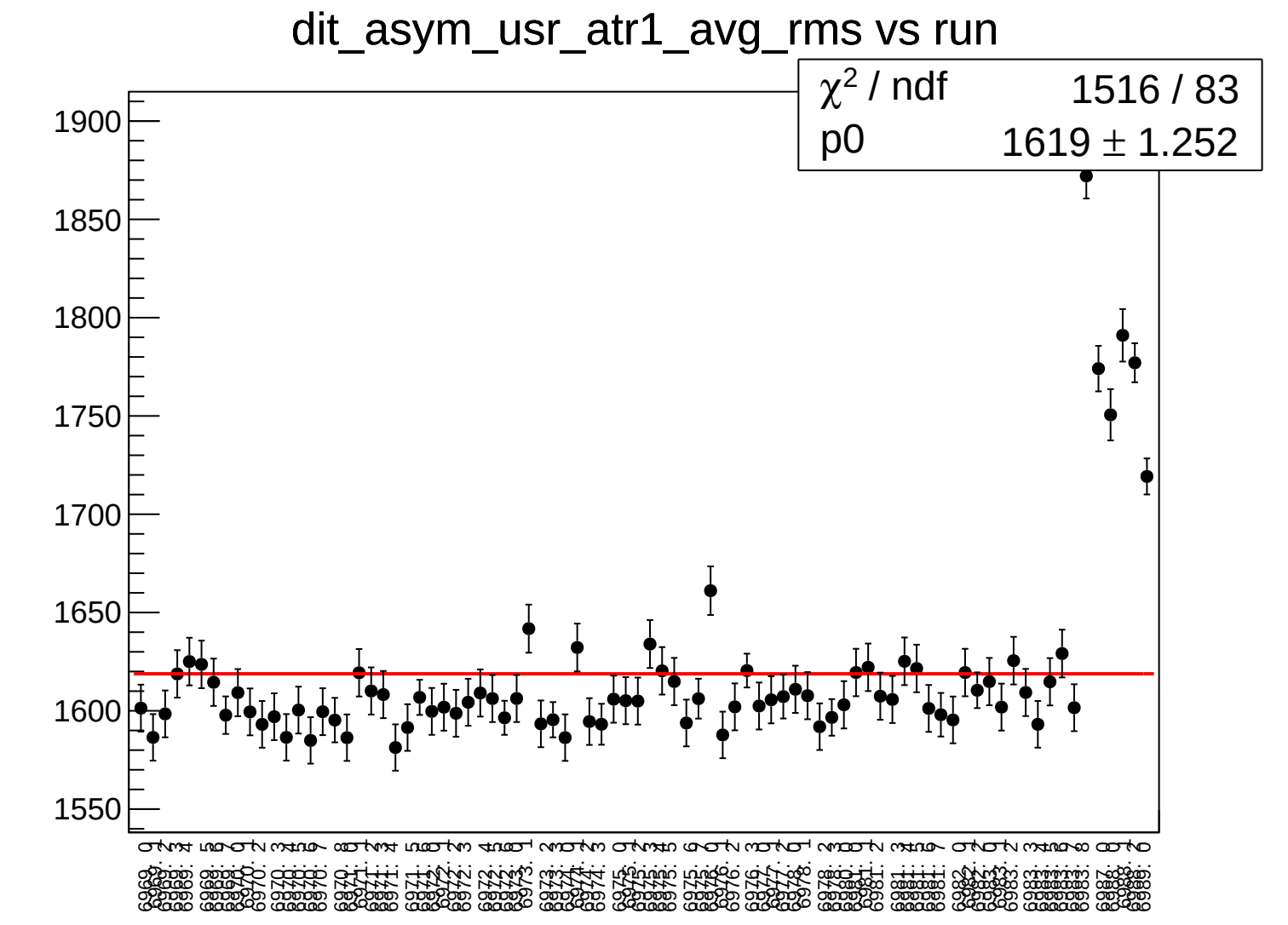

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 107.6 / 83
p0 −1562 ± 1403
pull
Entries 84
Mean −27.28
Std Dev 0

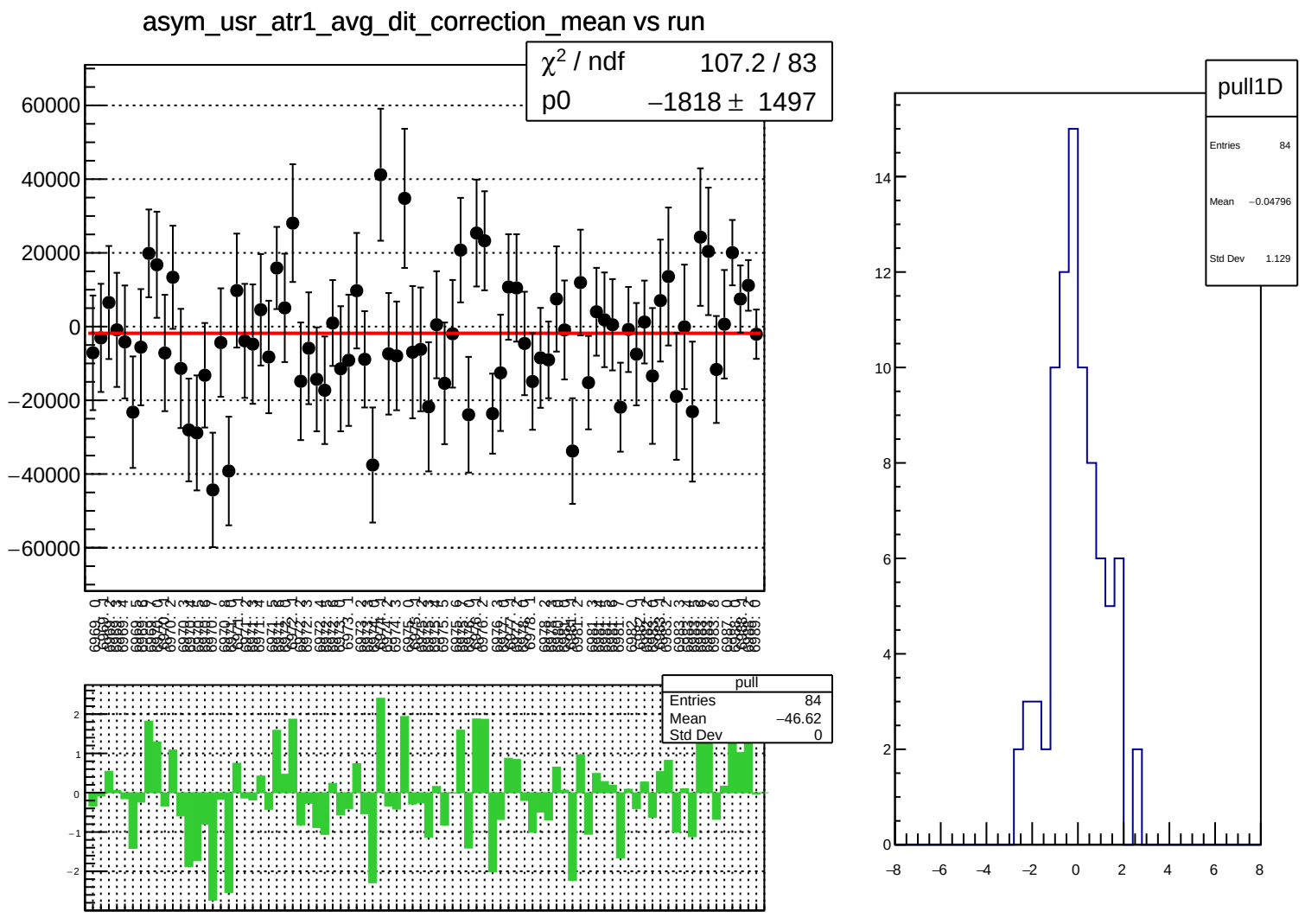

pull1D
Entries 84
Mean −0.0615
Std Dev 1.13

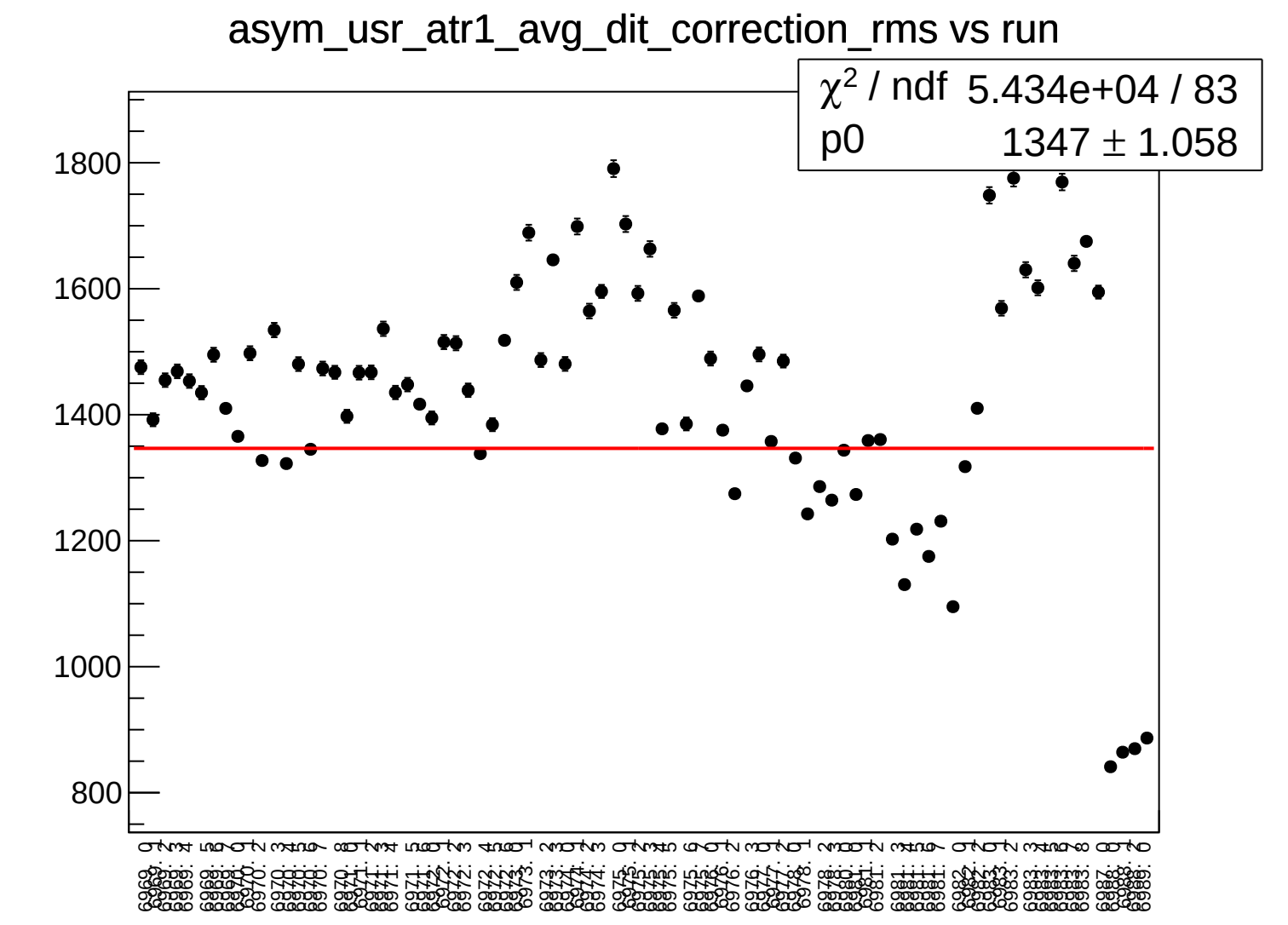

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8.674e+04 / 83
p0 1250 ± 0.9922
1800
1600
1400
1200
1000
800

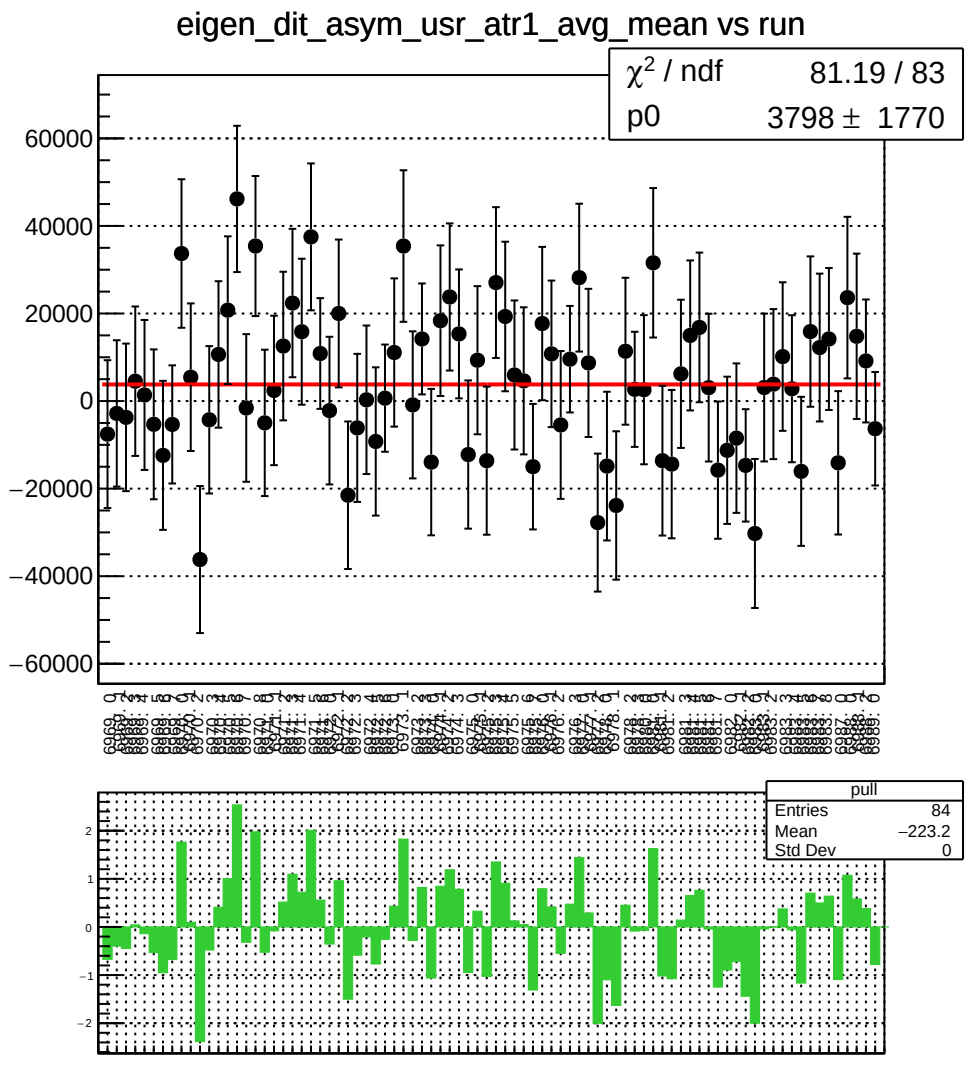

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 81.19 / 83
p0 3798 ± 1770
pull
Entries 84
Mean −223.2
Std Dev 0

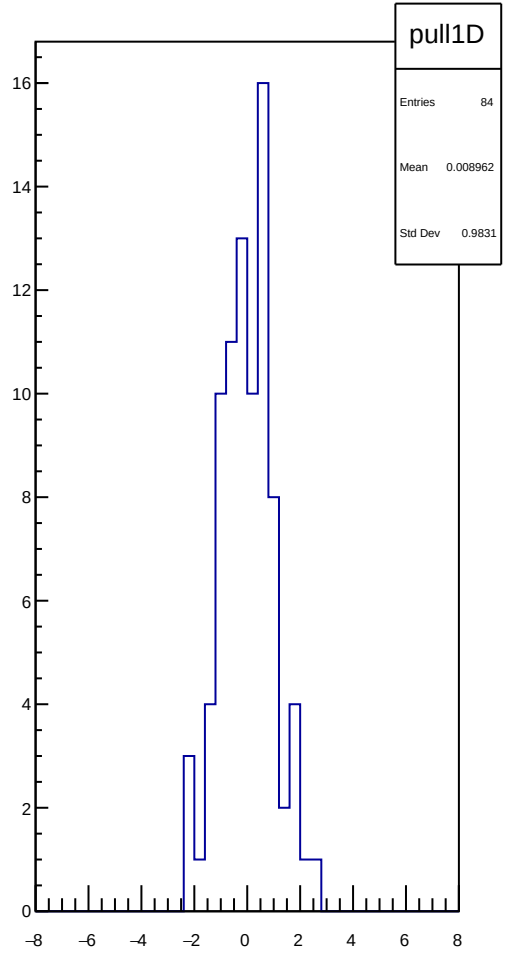

pull1D
Entries 84
Mean 0.008962
Std Dev 0.9831

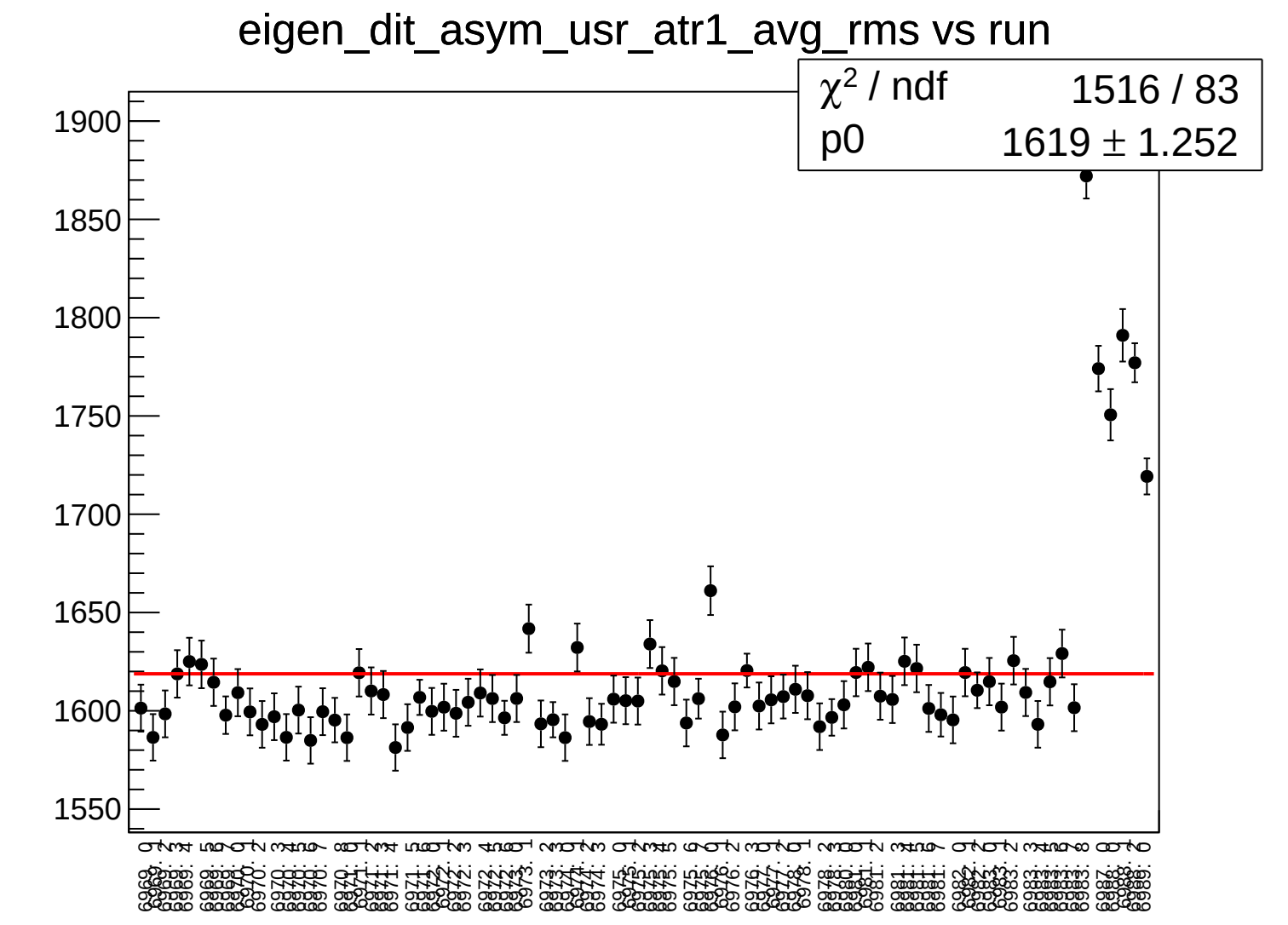

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 1516 / 83
p0 1619 ± 1.252
1900
1850
1800
1750
1700
1650
1600
1550

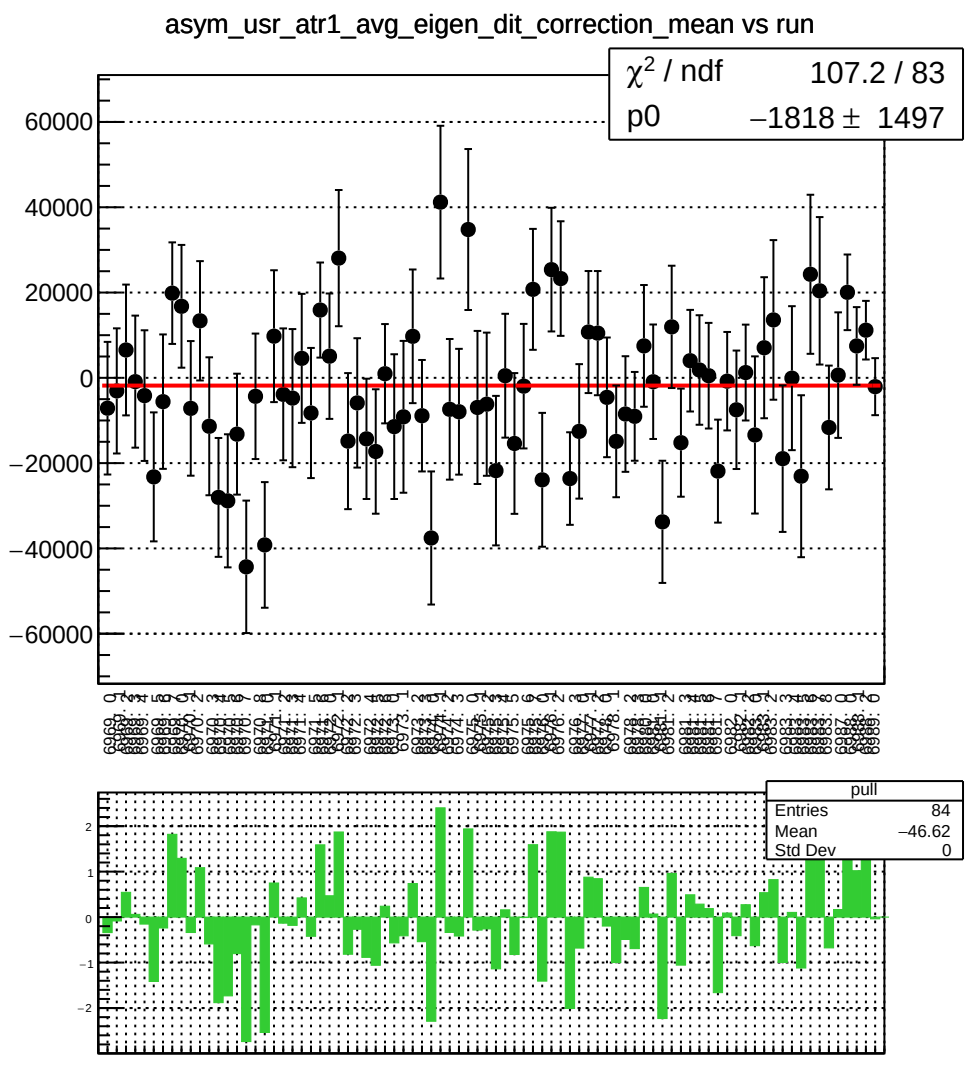

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 107.2 / 83
p0 −1818 ± 1497
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −46.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.04796
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

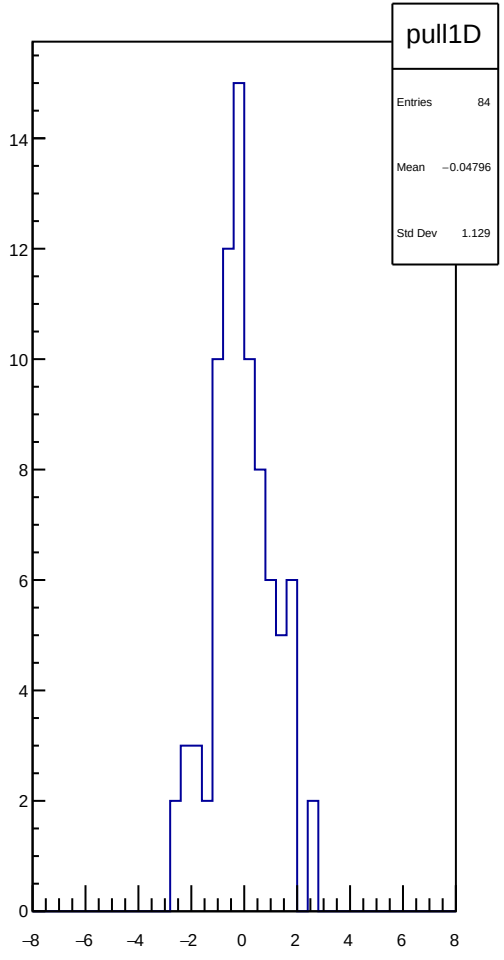

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 5.434e+04 / 83
p0 1347 ± 1.058
1800
1600
1400
1200
1000
800

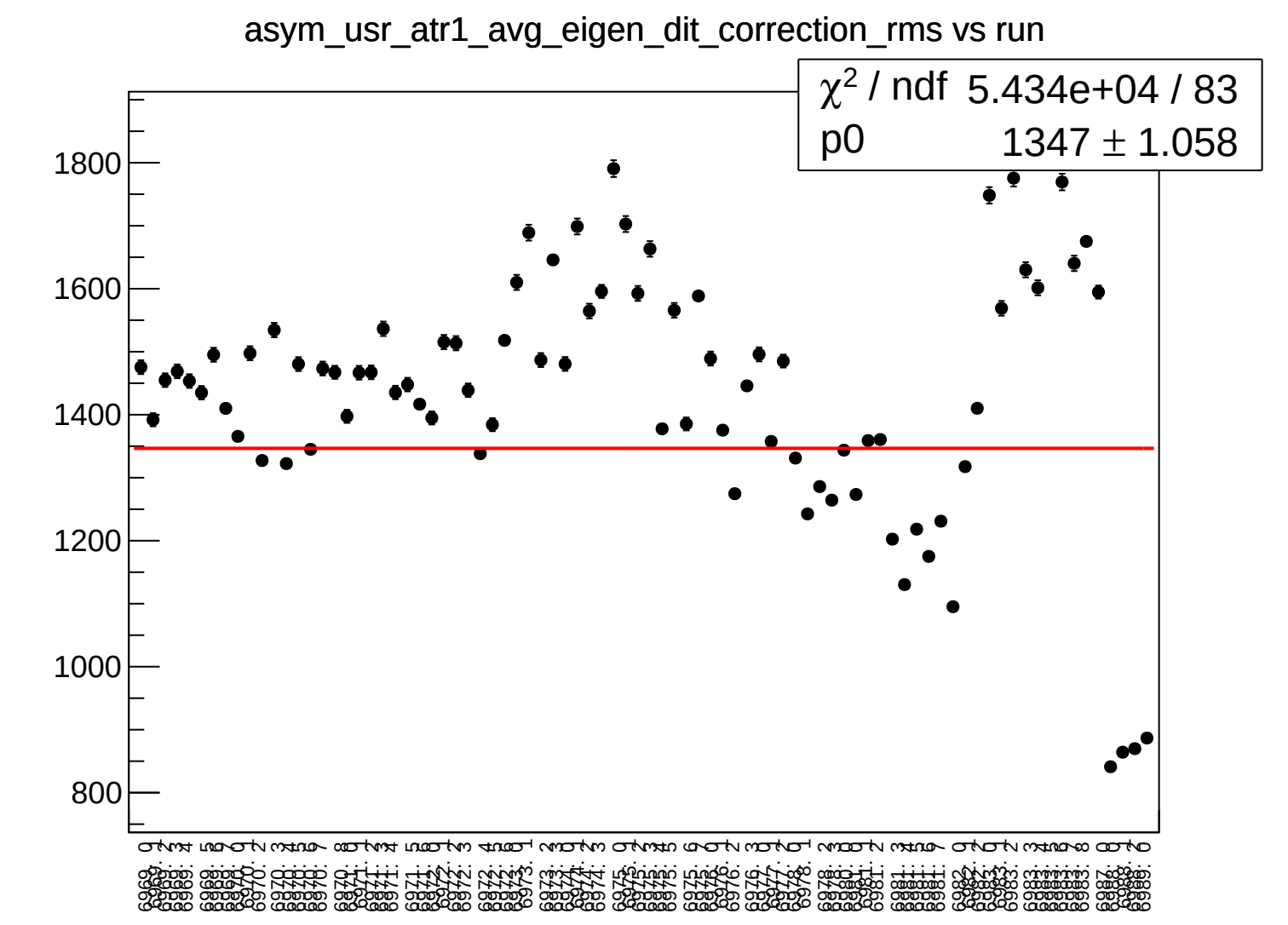

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 81.19 / 83
p0 3798 ± 1770
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −223.2
Std Dev 0
2
1
0
−1
−2

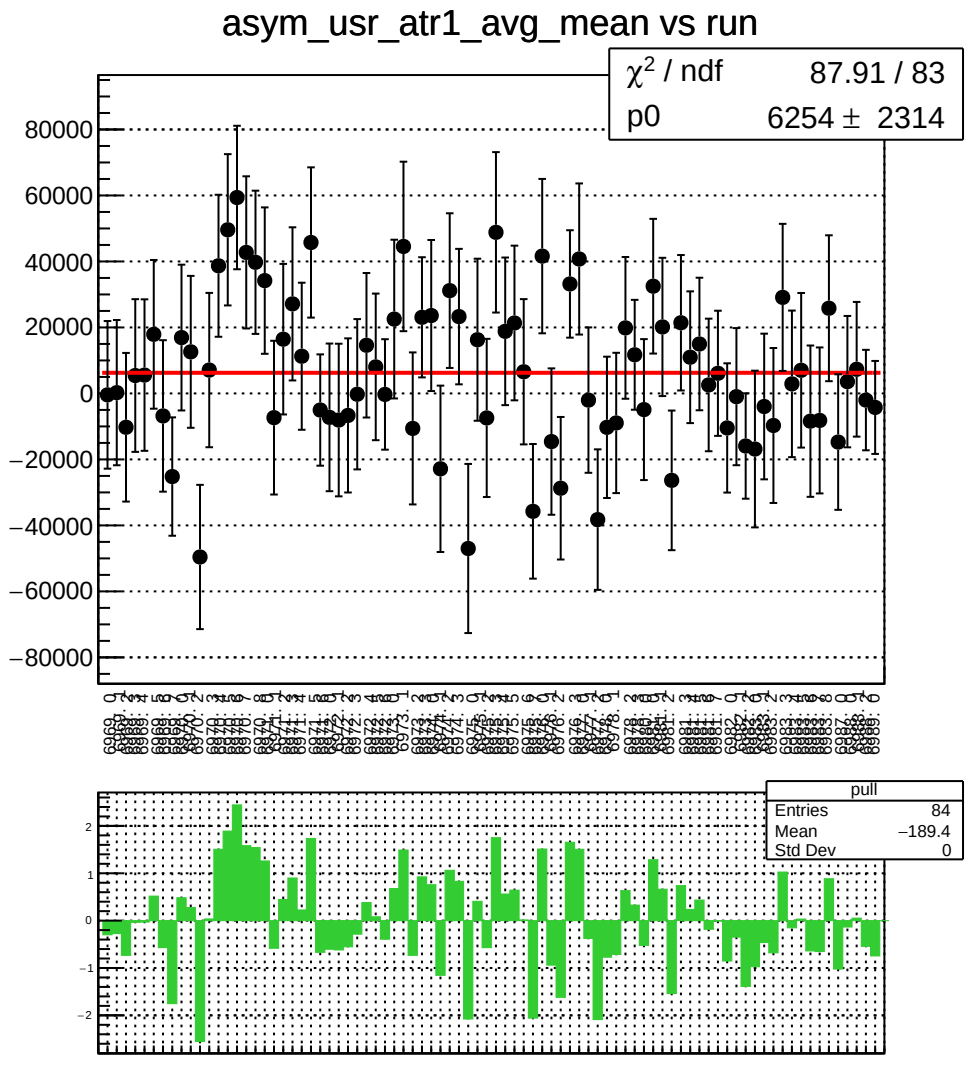

pull1D
Entries 84
Mean 0.008962
Std Dev 0.9831
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

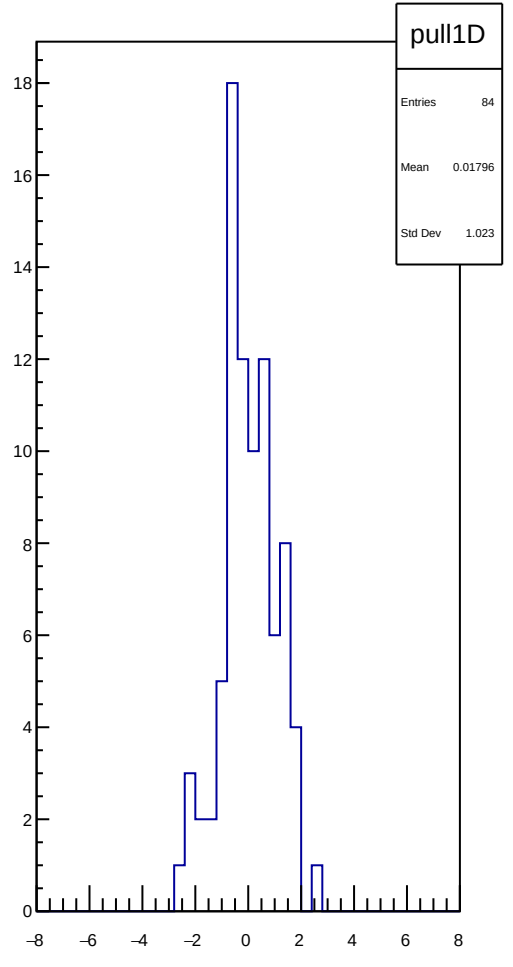

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 1516 / 83
p0 1619 ± 1.252
1900
1850
1800
1750
1700
1650
1600
1550

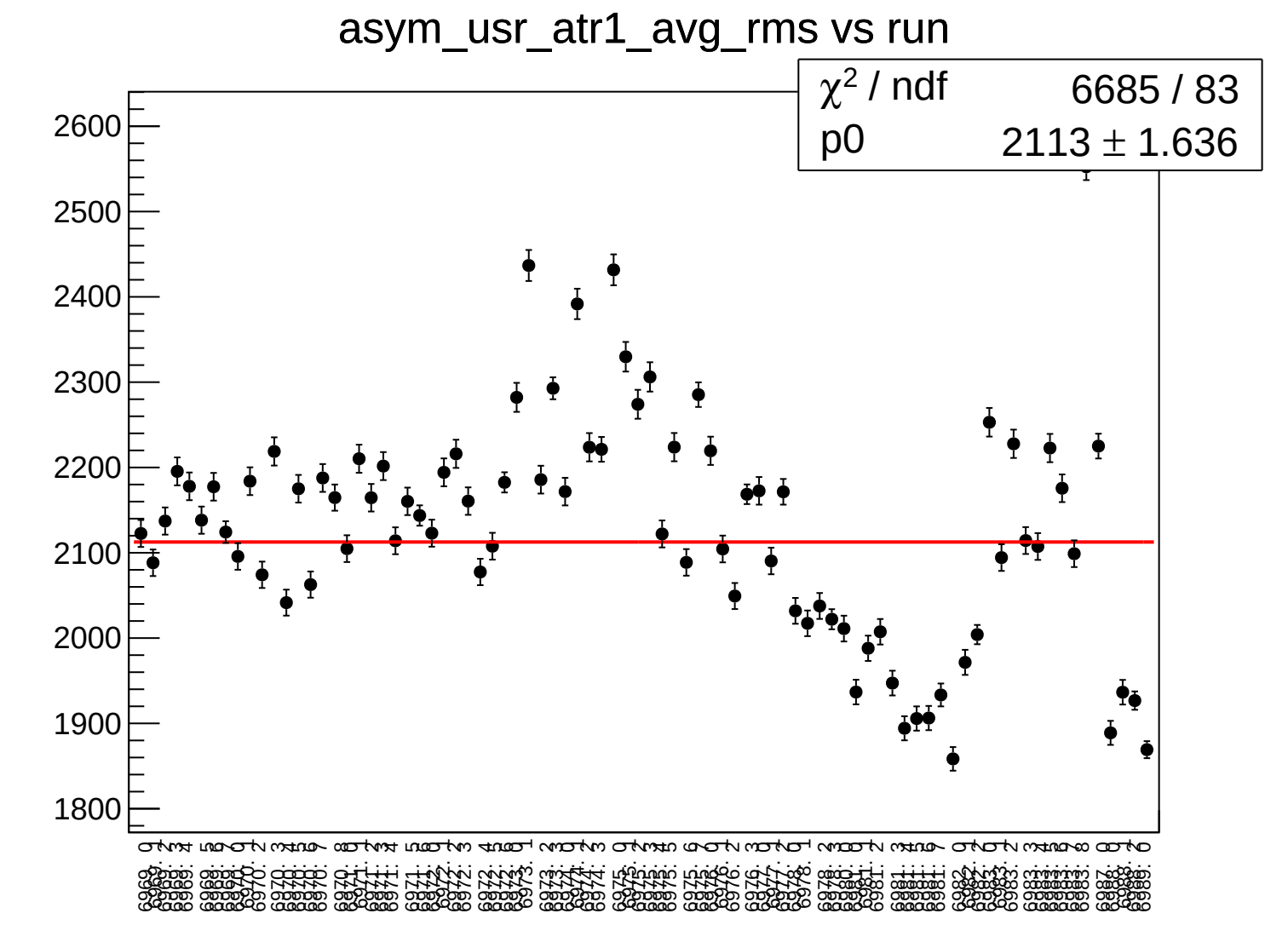

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 107.2 / 83
p0 −1818 ± 1497
pull
Entries 84
Mean −46.62
Std Dev 0

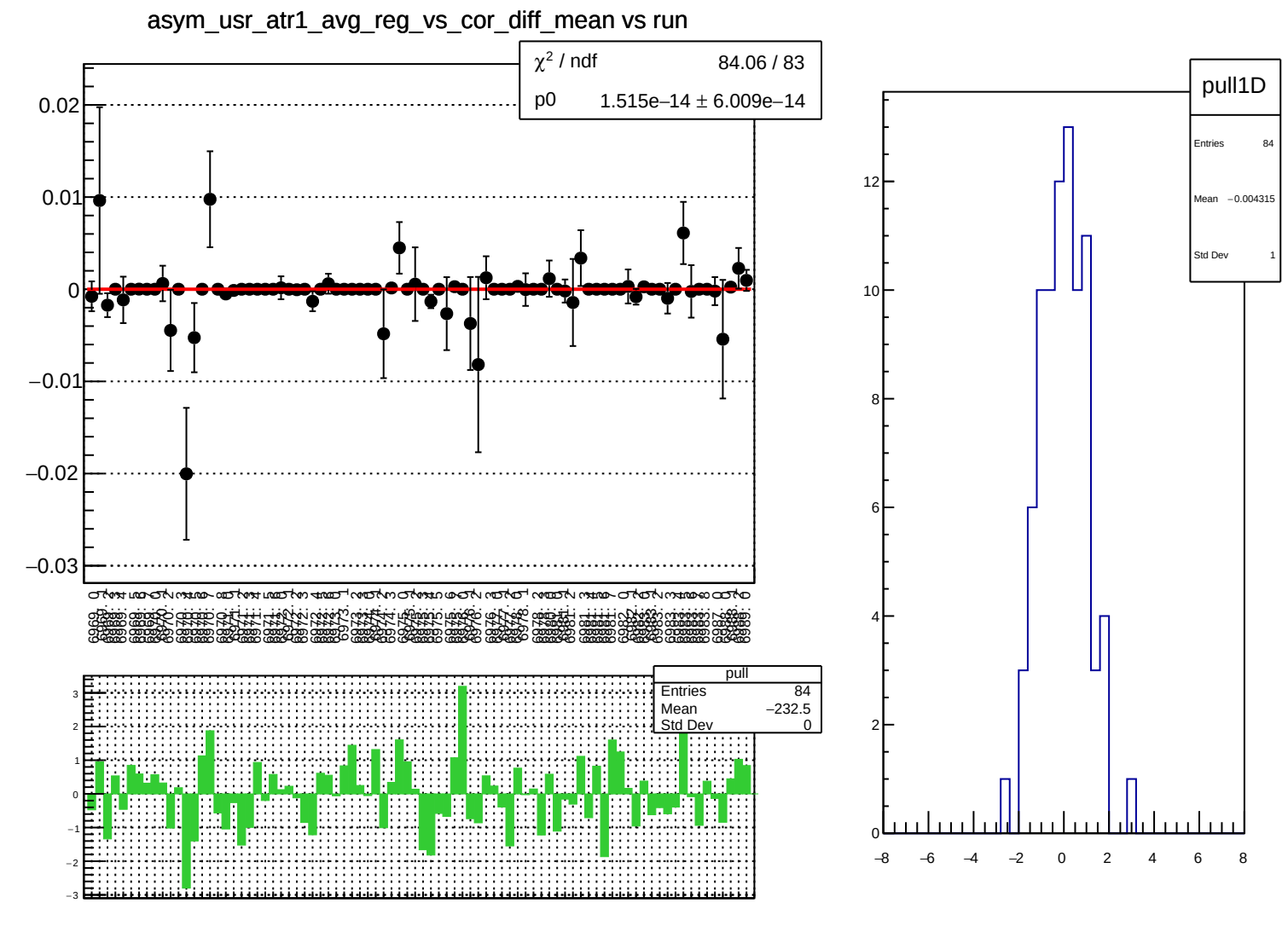

pull1D
Entries 84
Mean −0.04796
Std Dev 1.129

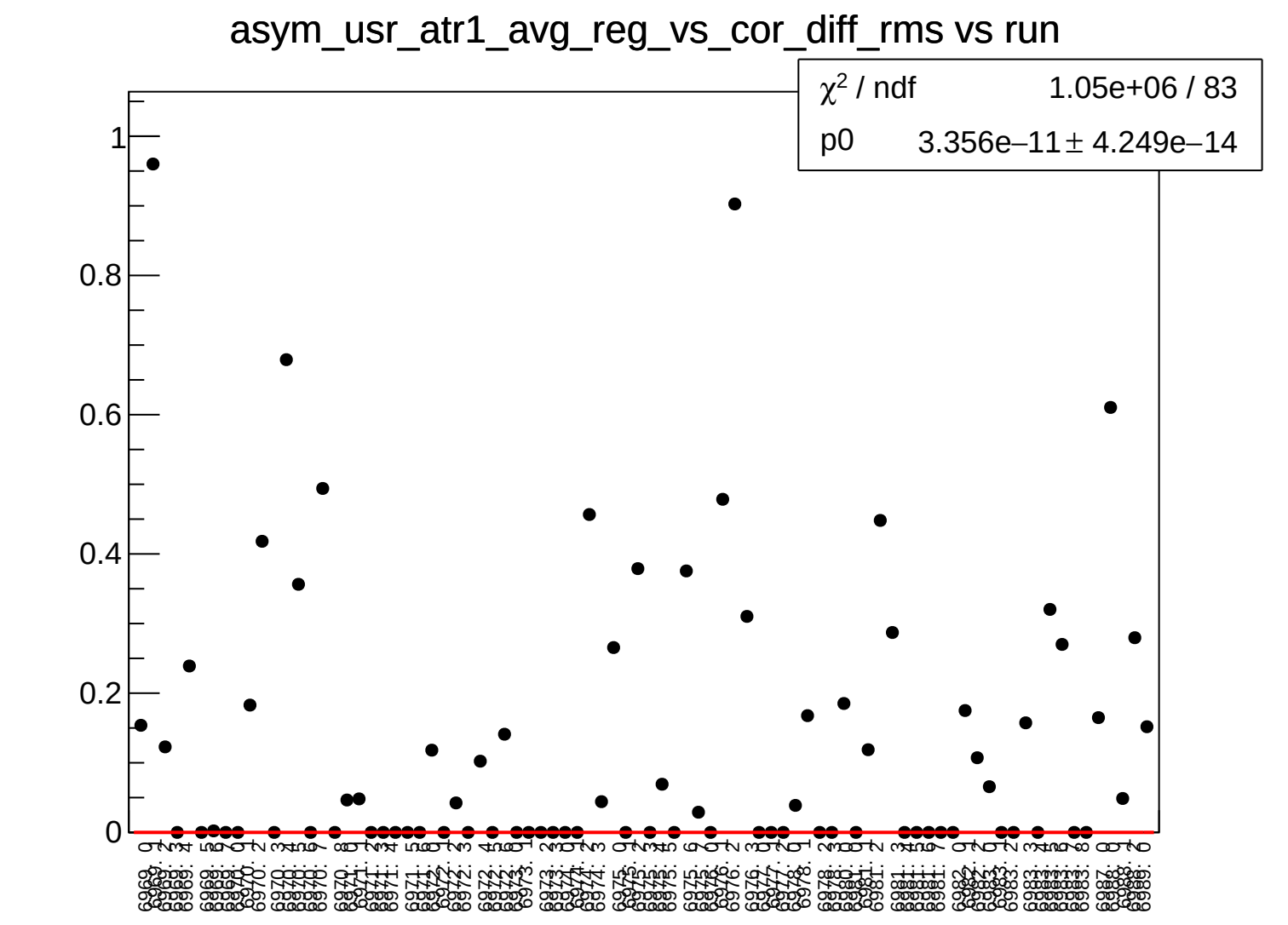

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.434e+04 / 83
p0 1347 ± 1.058
1800
1600
1400
1200
1000
800

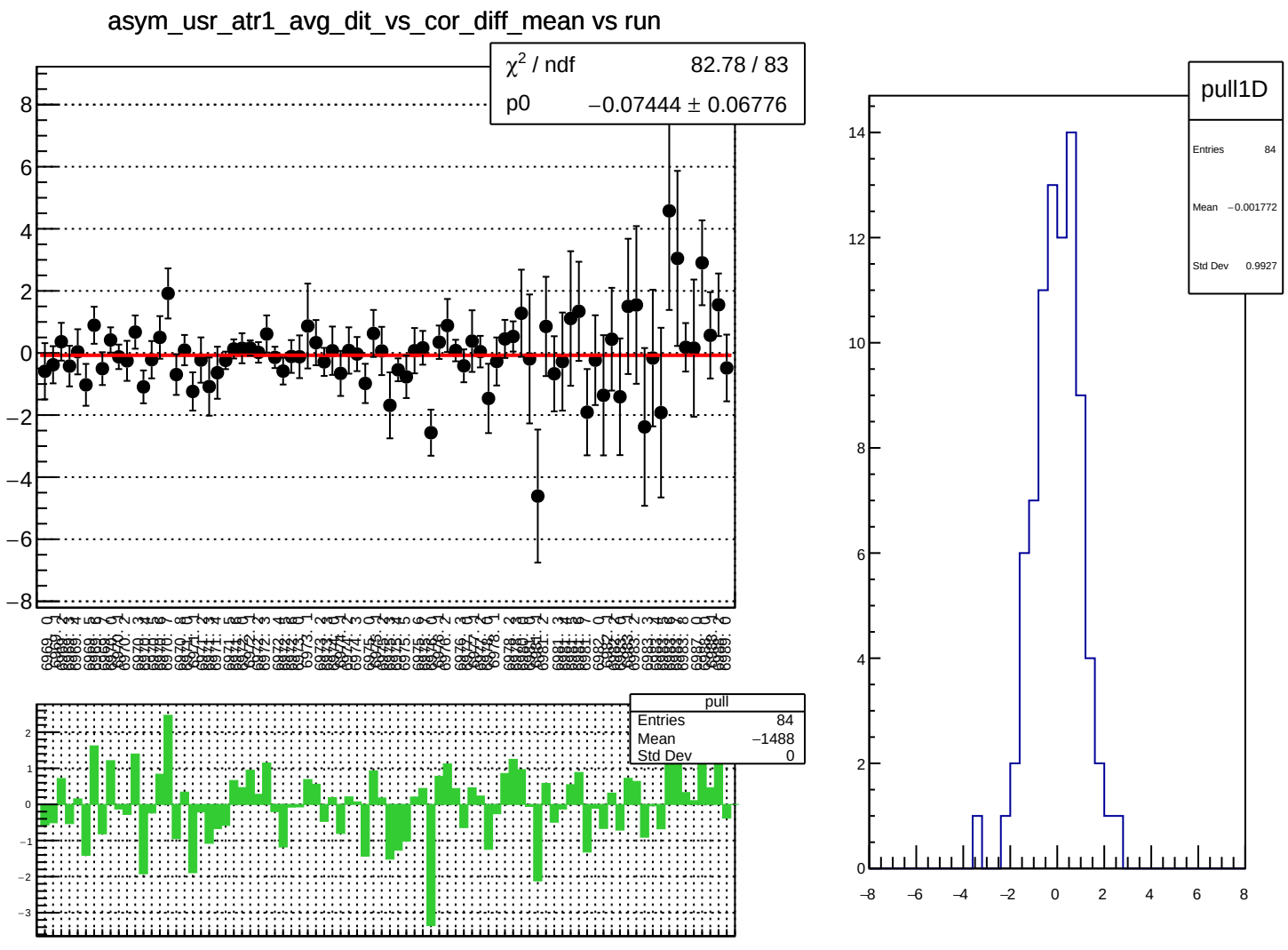

asym_usr_atr1_avg_mean vs run
χ² / ndf 87.91 / 83
p0 6254 ± 2314
pull
Entries 84
Mean −189.4
Std Dev 0

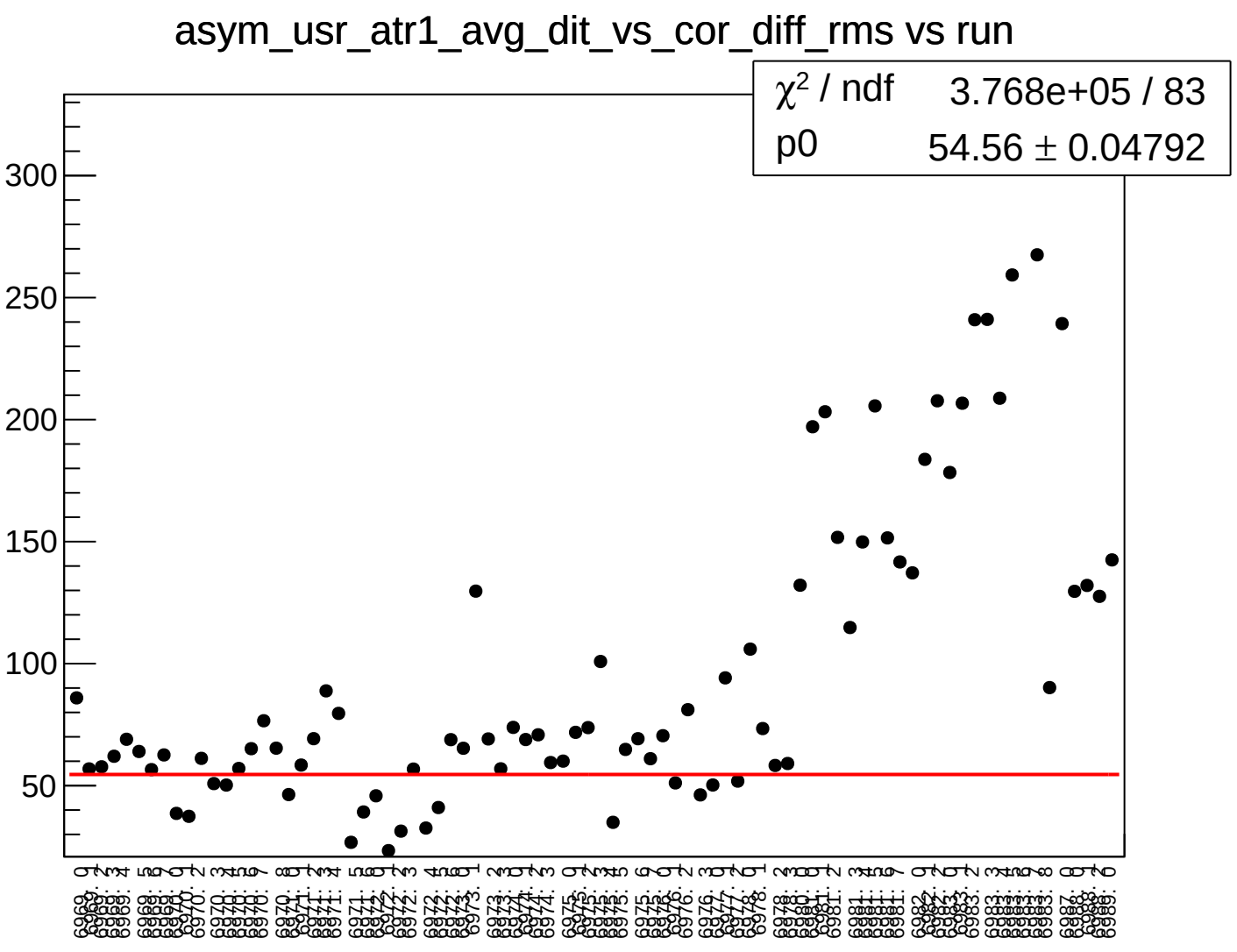

pull1D
Entries 84
Mean 0.01796
Std Dev 1.023

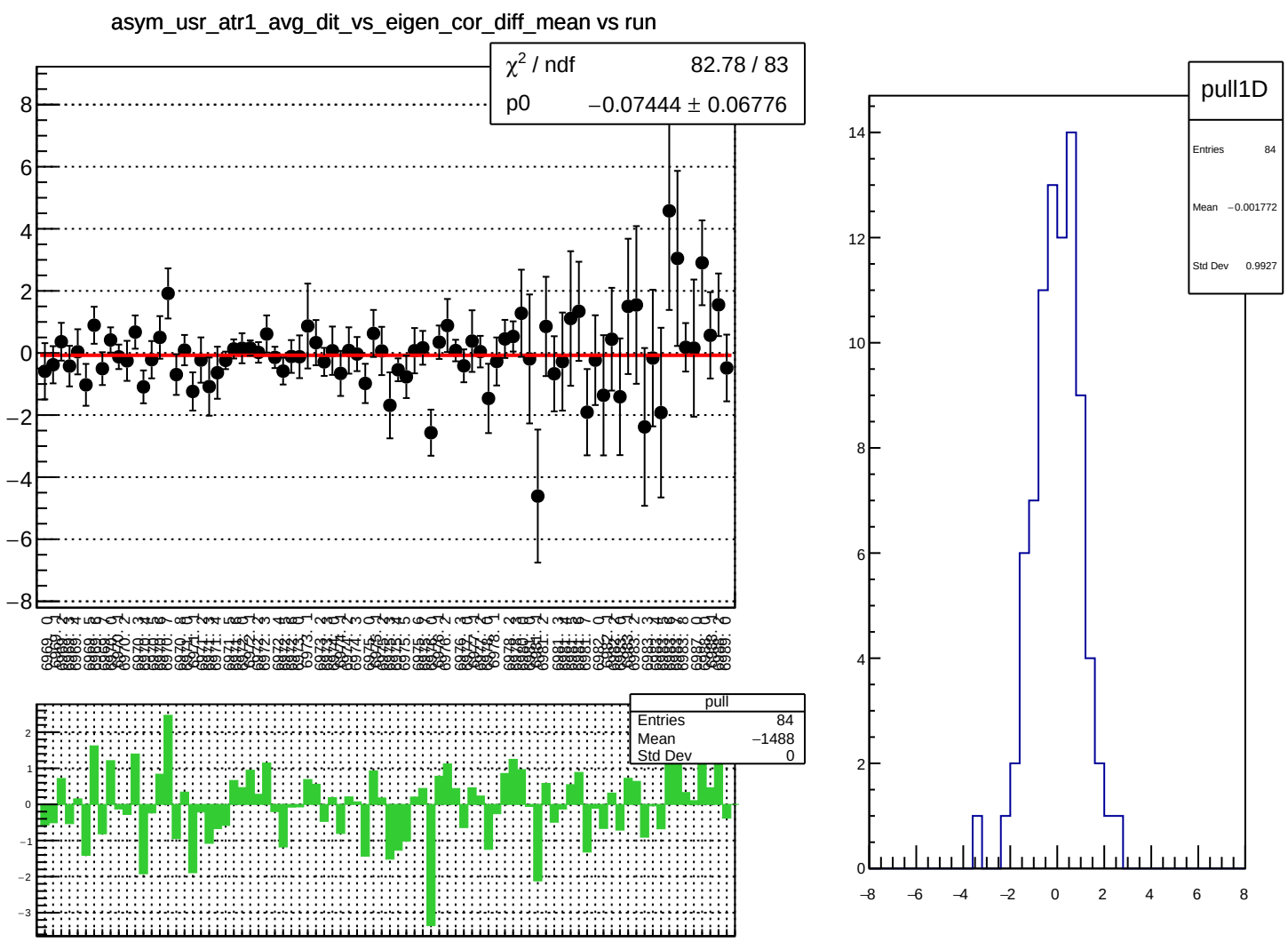

asym_usr_atr1_avg_rms vs run
χ² / ndf 6685 / 83
p0 2113 ± 1.636
2600
2500
2400
2300
2200
2100
2000
1900
1800

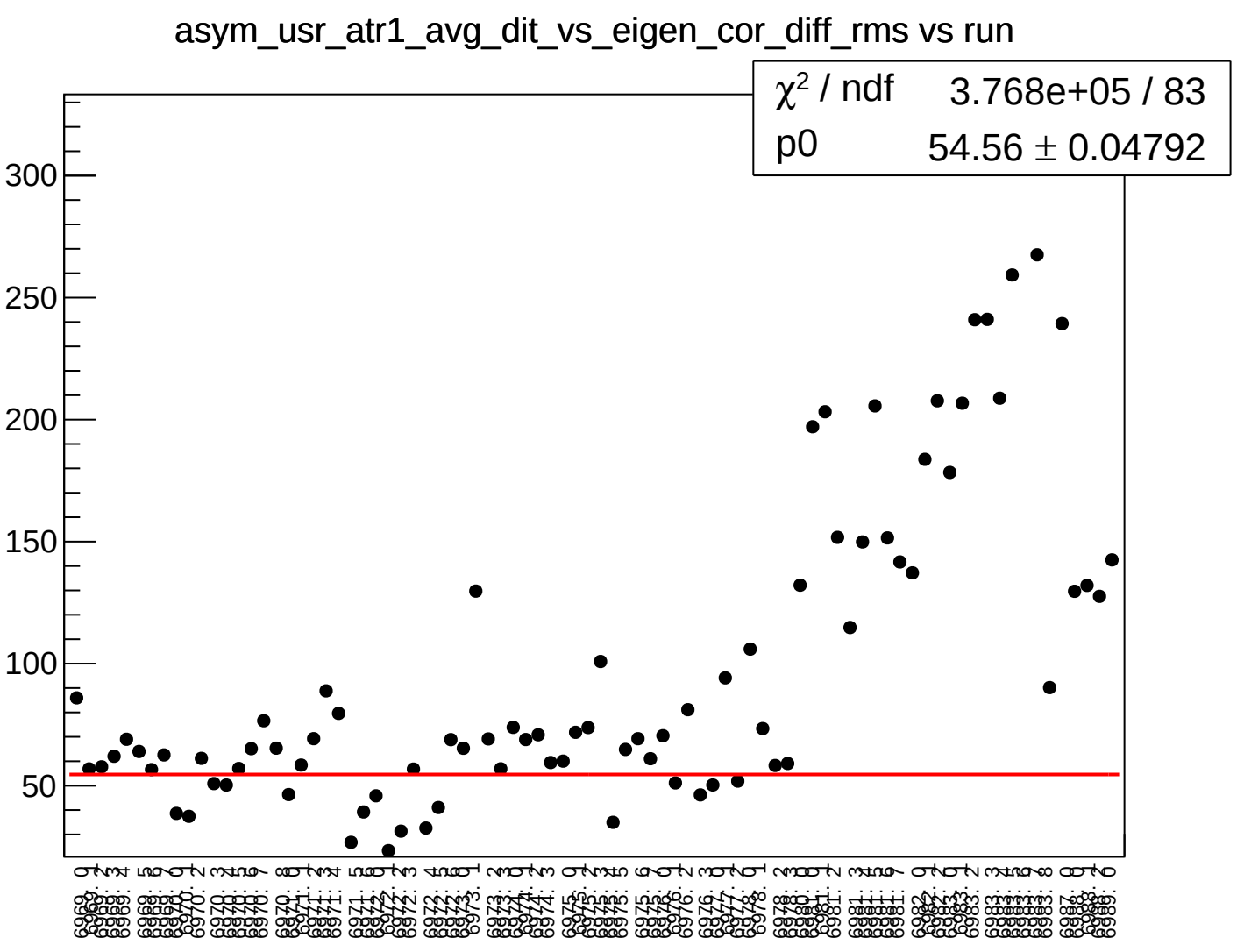

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.06 / 83
p0 1.515e−14 ± 6.009e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean −232.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.004315
Std Dev 1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

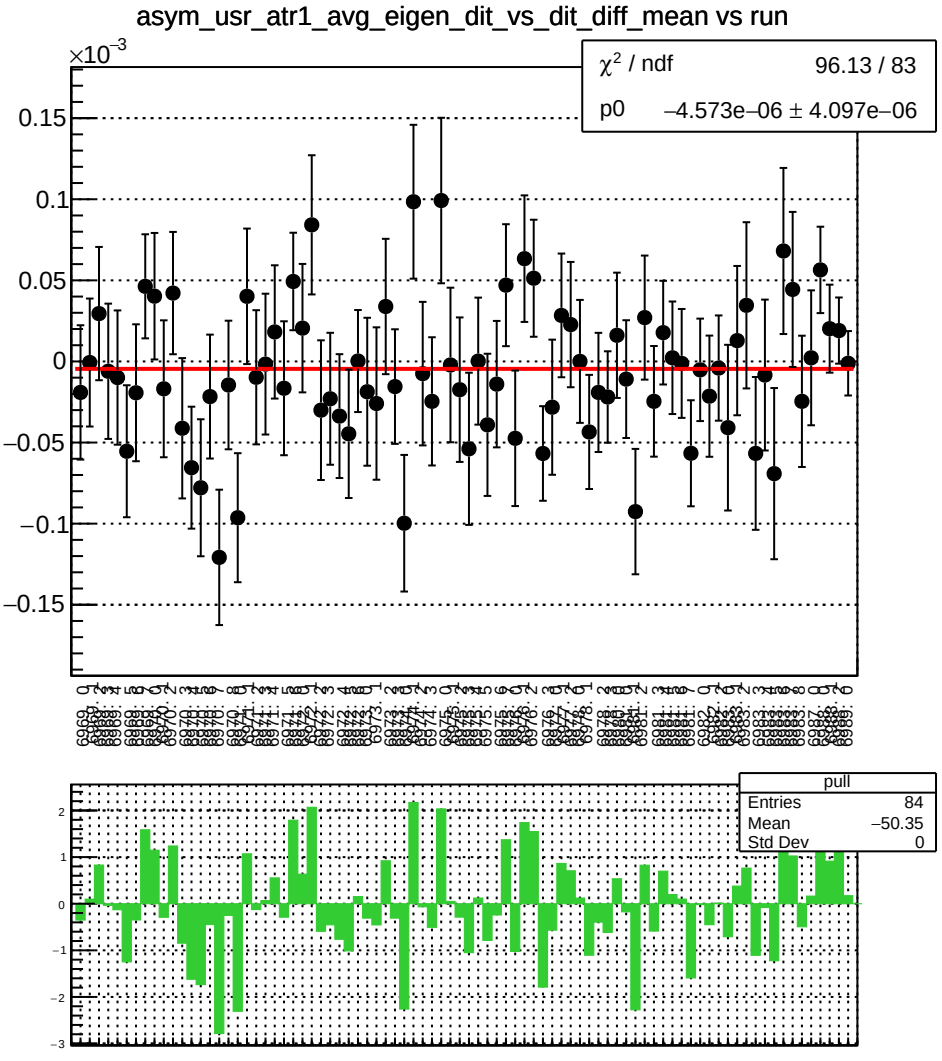

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.05e+06 / 83
p0 3.356e−11 ± 4.249e−14
1
0.8
0.6
0.4
0.2
0

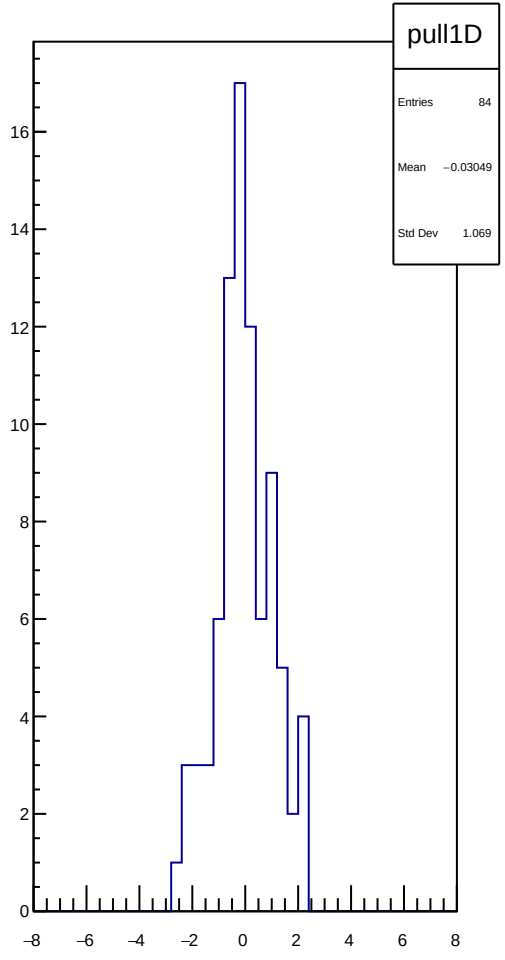

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.78 / 83
p0 −0.07444 ± 0.06776
pull
Entries 84
Mean −1488
Std Dev 0
pull1D
Entries 84
Mean −0.001772
Std Dev 0.9927

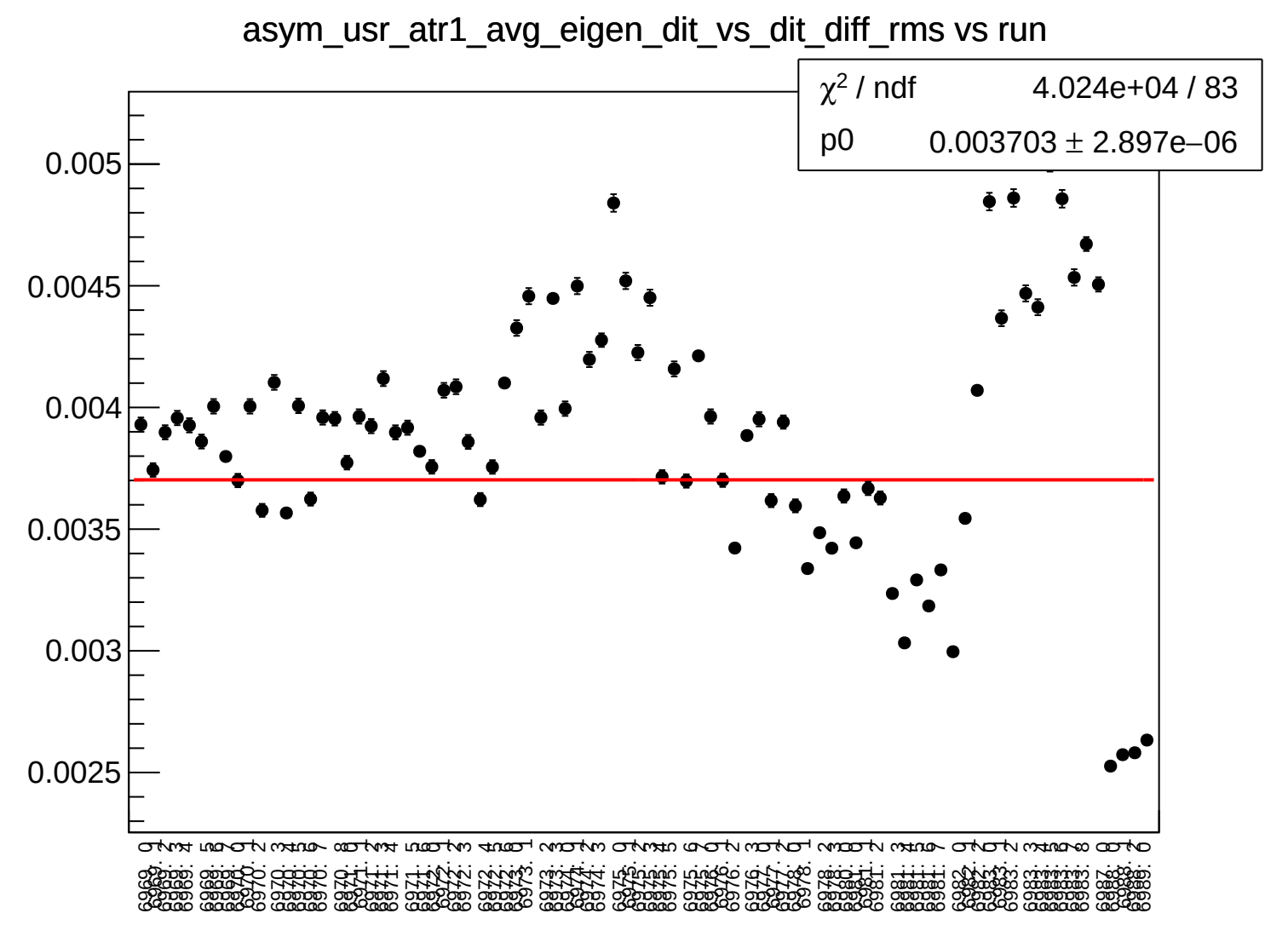

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.768e+05 / 83
p0 54.56 ± 0.04792
300
250
200
150
100
50

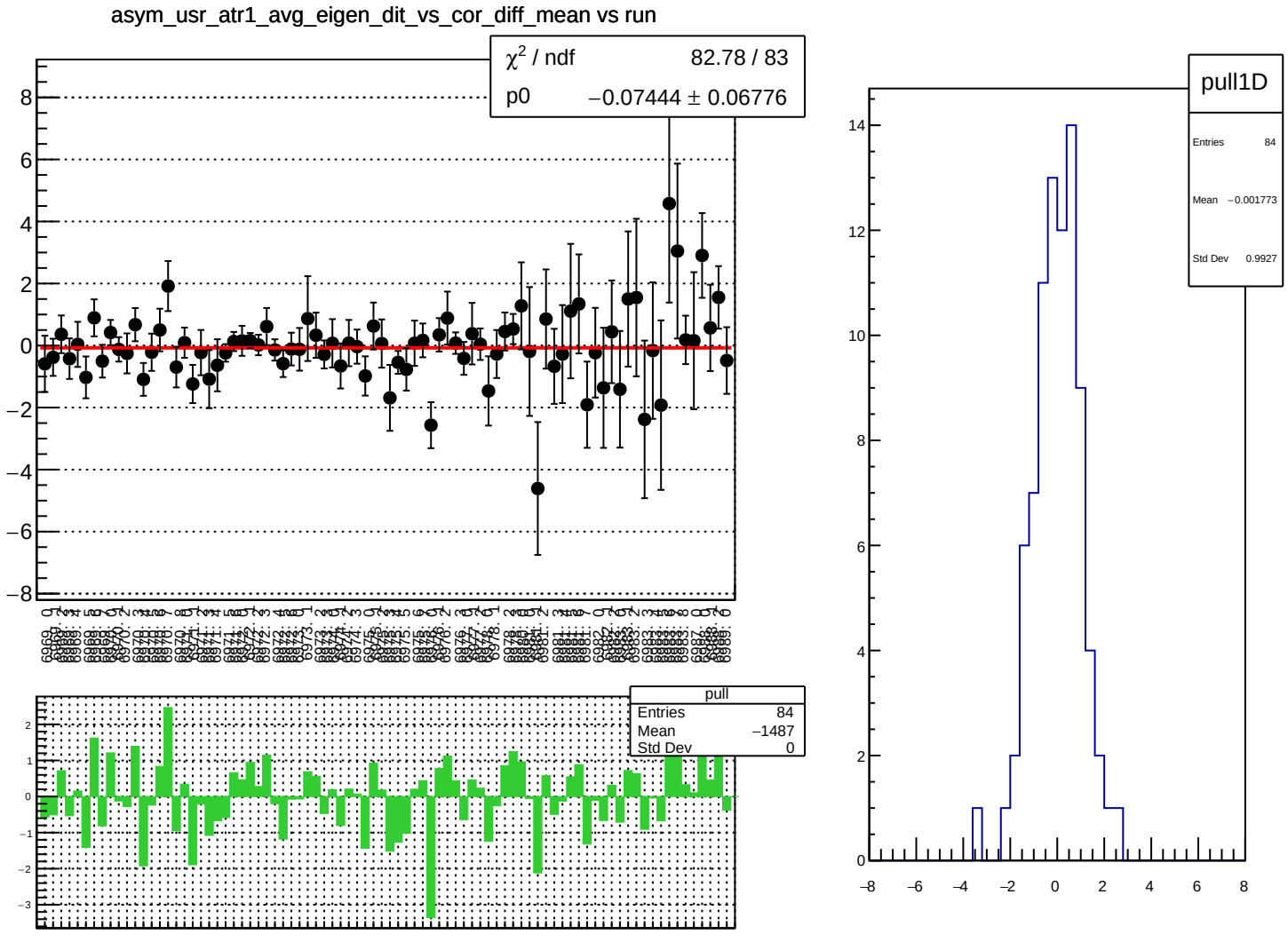

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.78 / 83
p0 −0.07444 ± 0.06776
pull
Entries 84
Mean −1488
Std Dev 0
pull1D
Entries 84
Mean −0.001772
Std Dev 0.9927

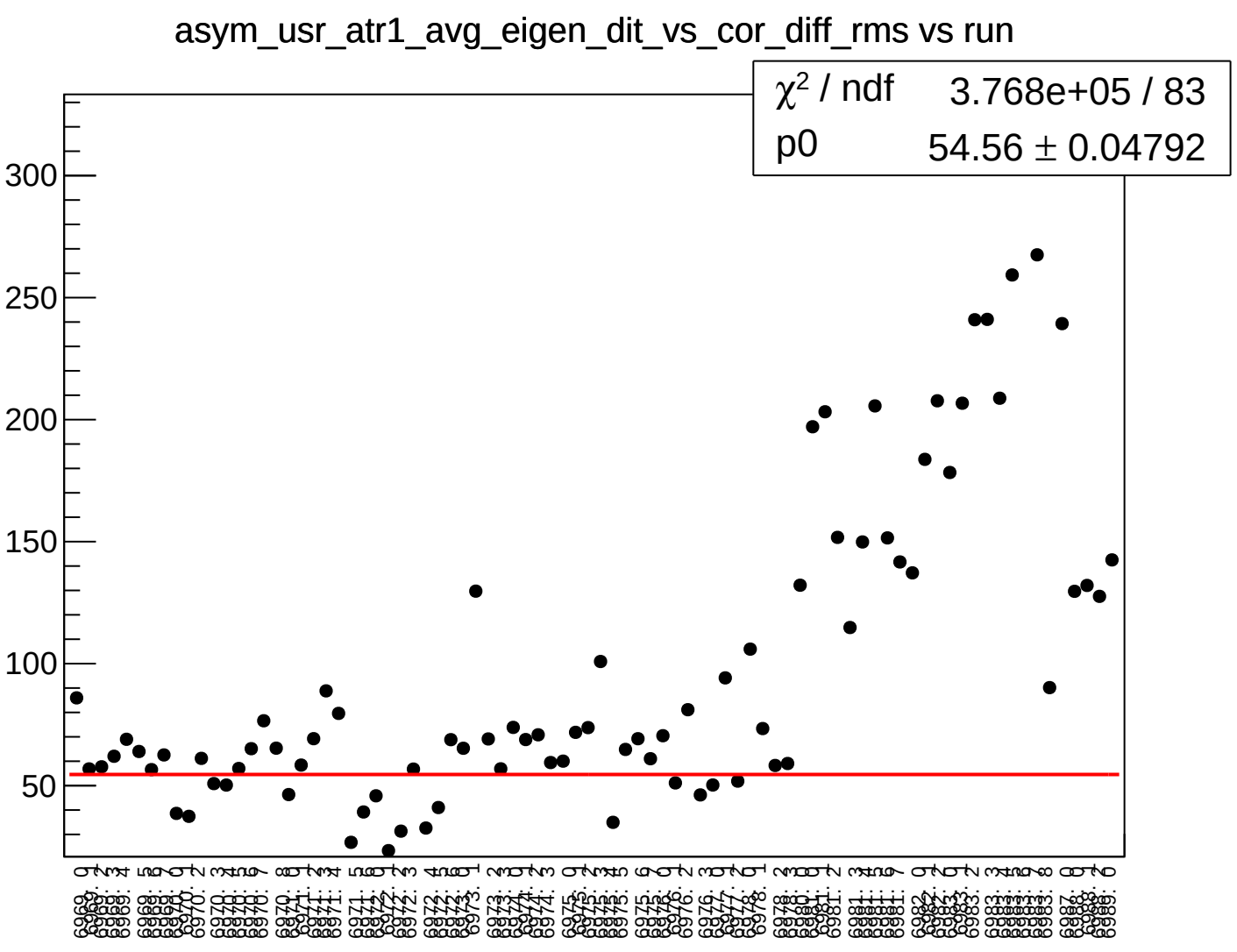

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.768e+05 / 83
p0 54.56 ± 0.04792
300
250
200
150
100
50

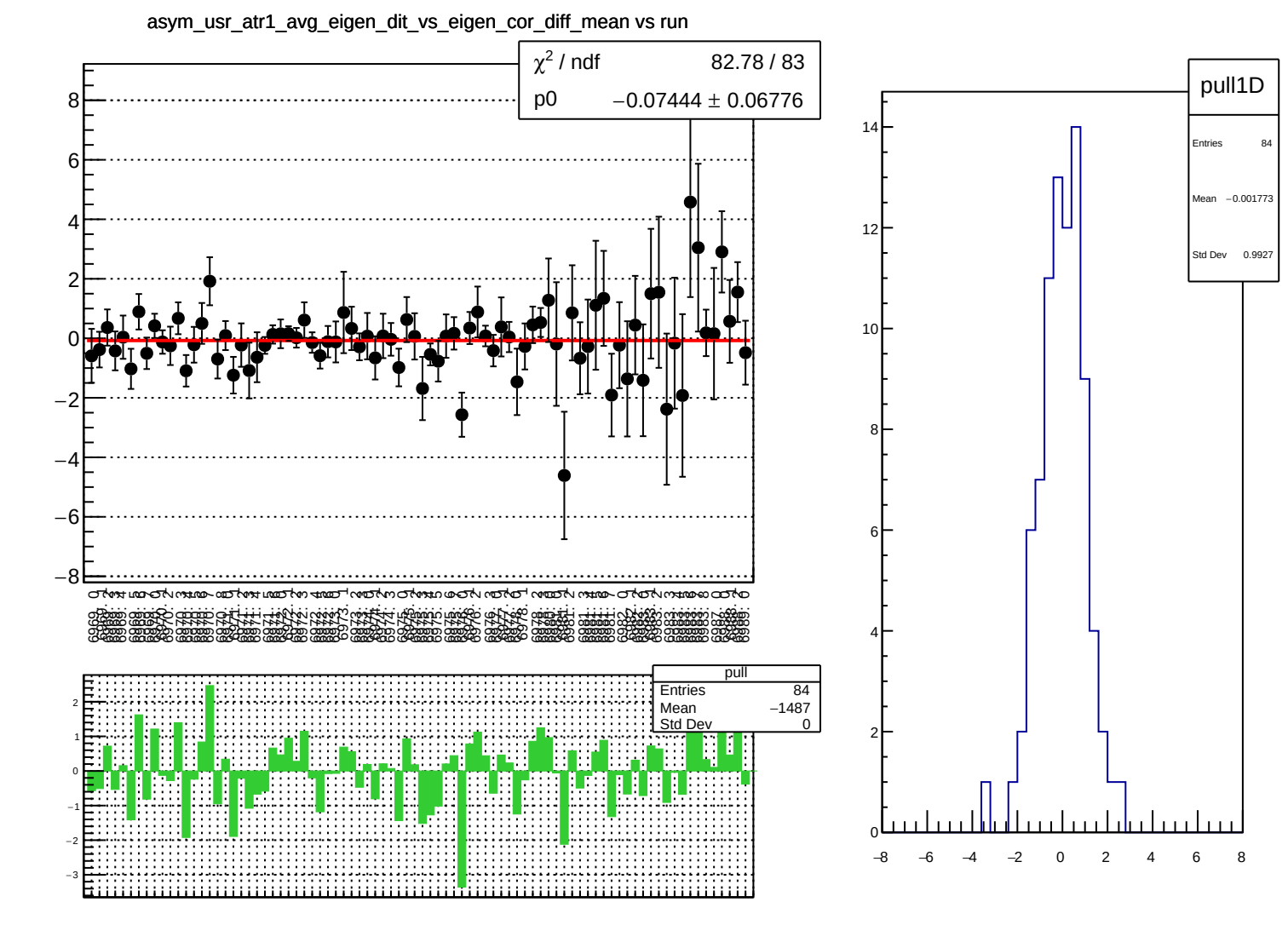

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.13 / 83
p0 −4.573e−06 ± 4.097e−06
pull
Entries 84
Mean −50.35
Std Dev 0

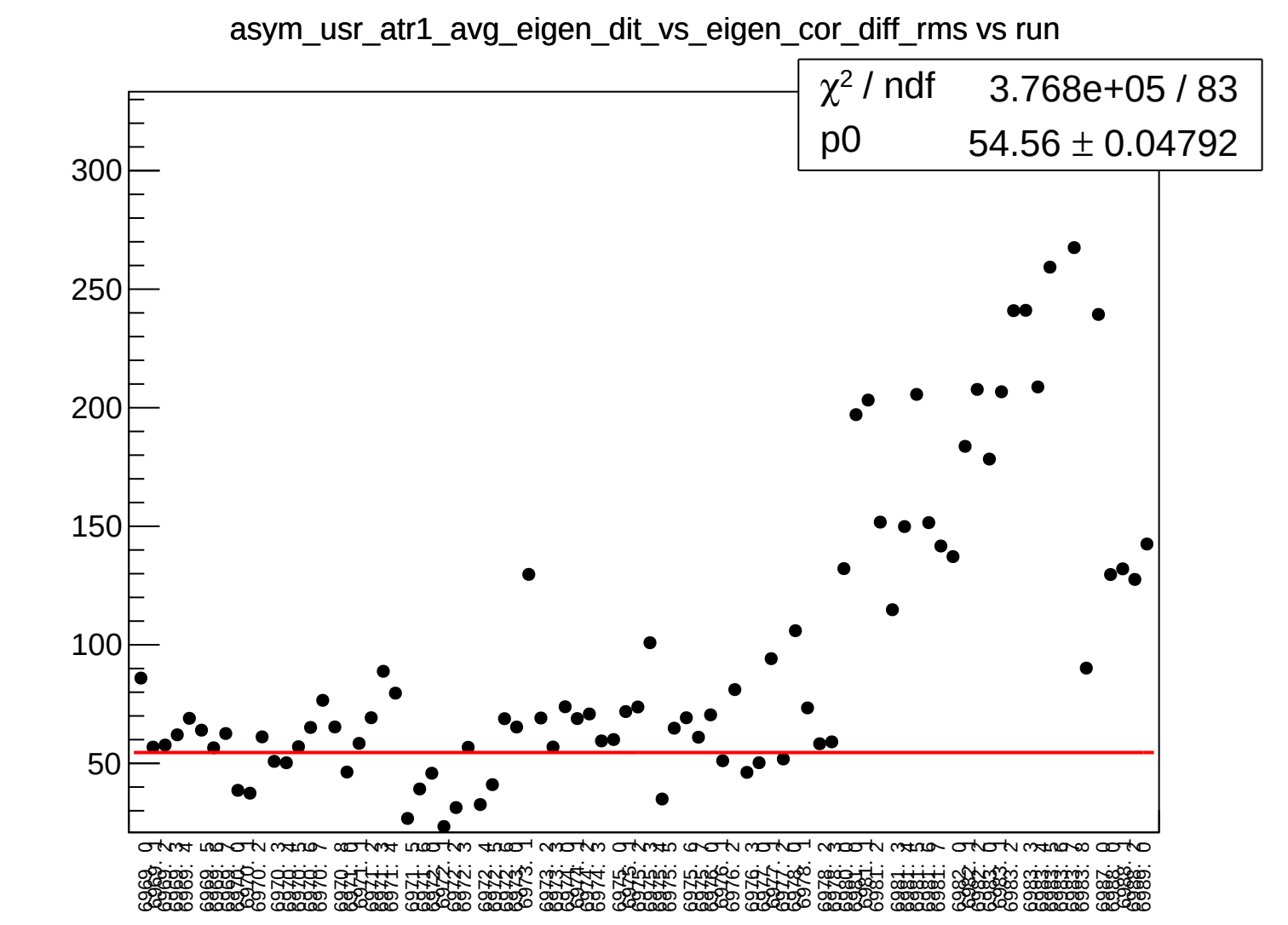

pull1D
Entries 84
Mean −0.03049
Std Dev 1.069

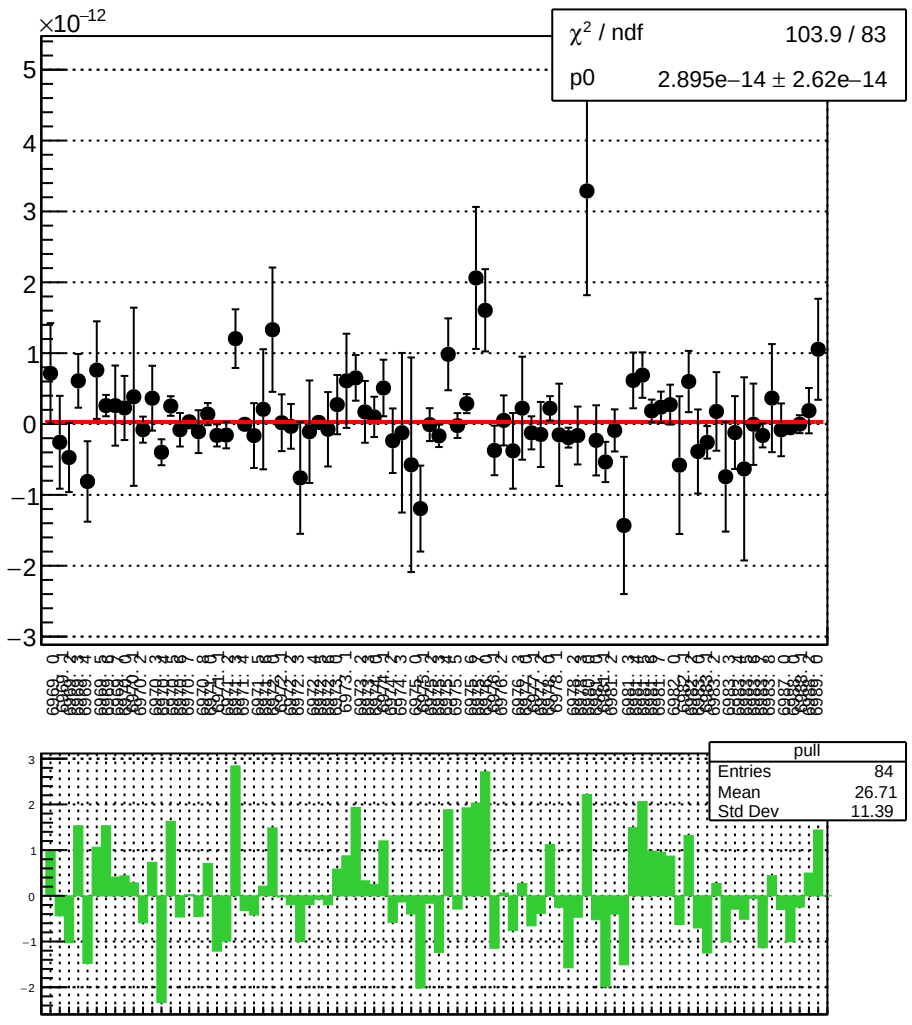

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.024e+04 / 83
p0 0.003703 ± 2.897e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

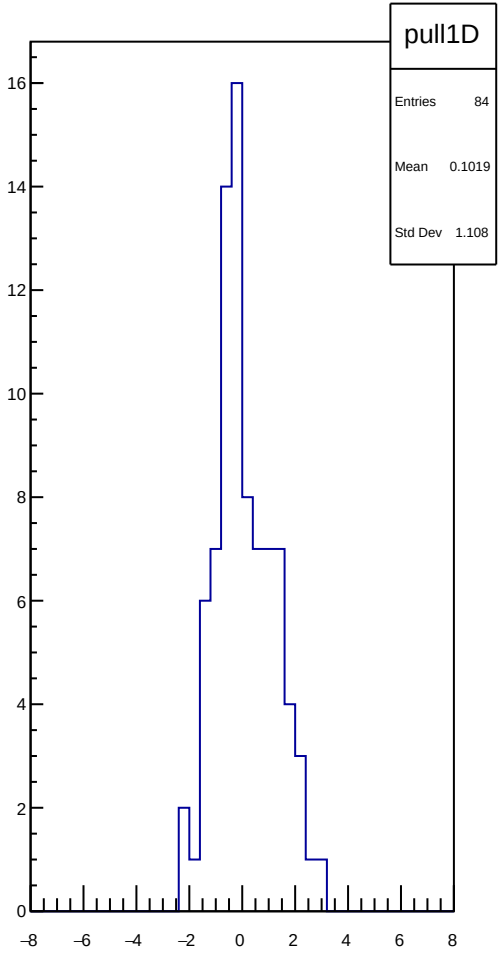

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.78 / 83
p0 −0.07444 ± 0.06776
pull
Entries 84
Mean −1487
Std Dev 0
pull1D
Entries 84
Mean −0.001773
Std Dev 0.9927

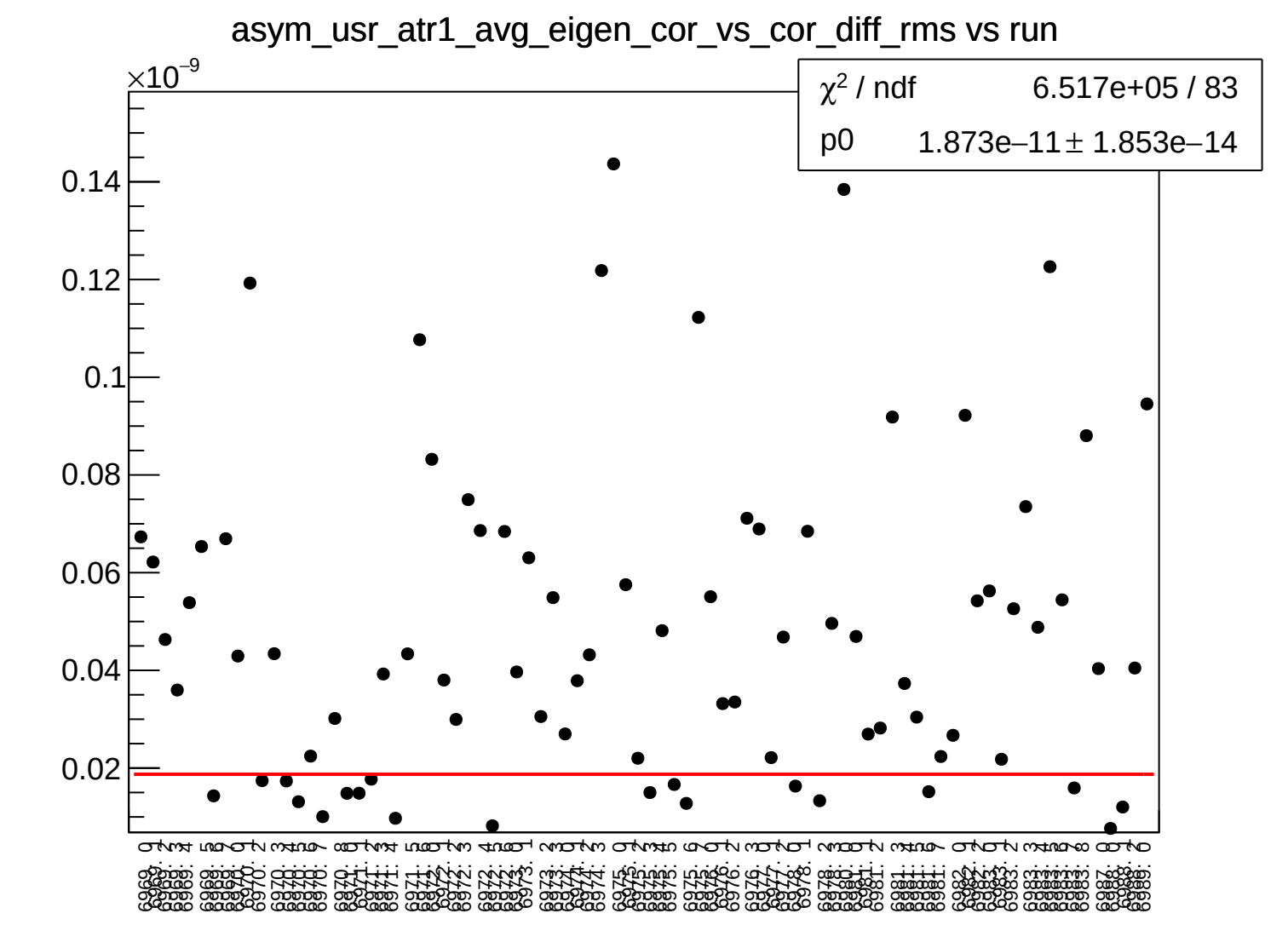

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.768e+05 / 83
p0 54.56 ± 0.04792
300
250
200
150
100
50

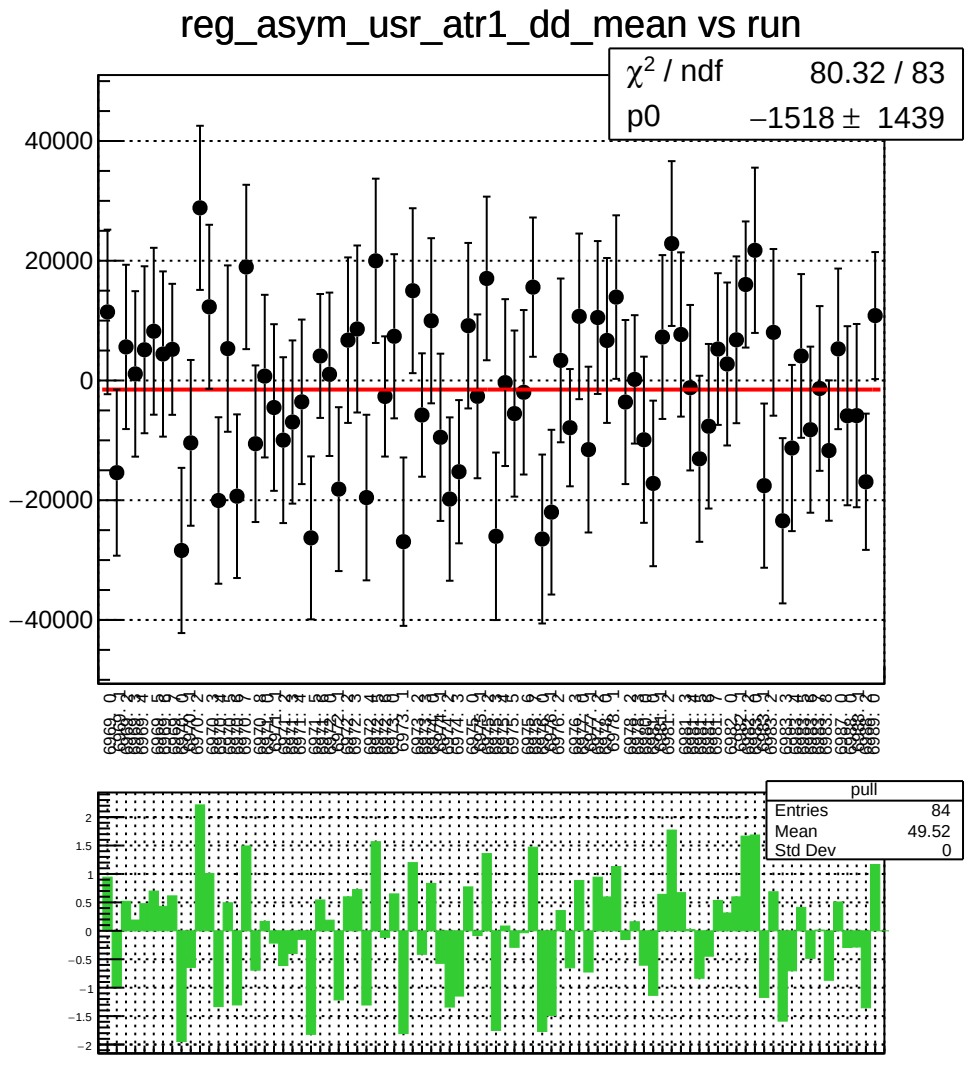

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.78 / 83
p0 −0.07444 ± 0.06776
pull
Entries 84
Mean −1487
Std Dev 0
pull1D
Entries 84
Mean −0.001773
Std Dev 0.9927

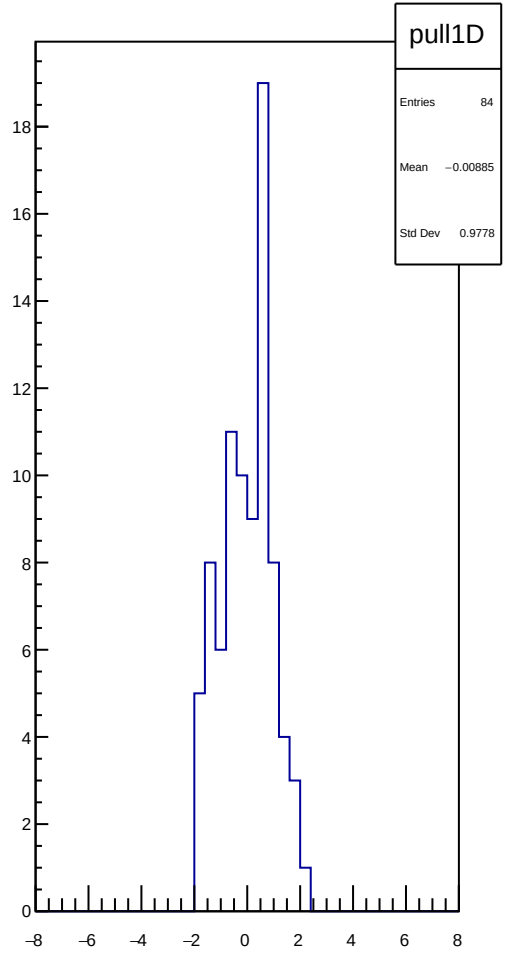

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.768e+05 / 83
p0 54.56 ± 0.04792
300
250
200
150
100
50

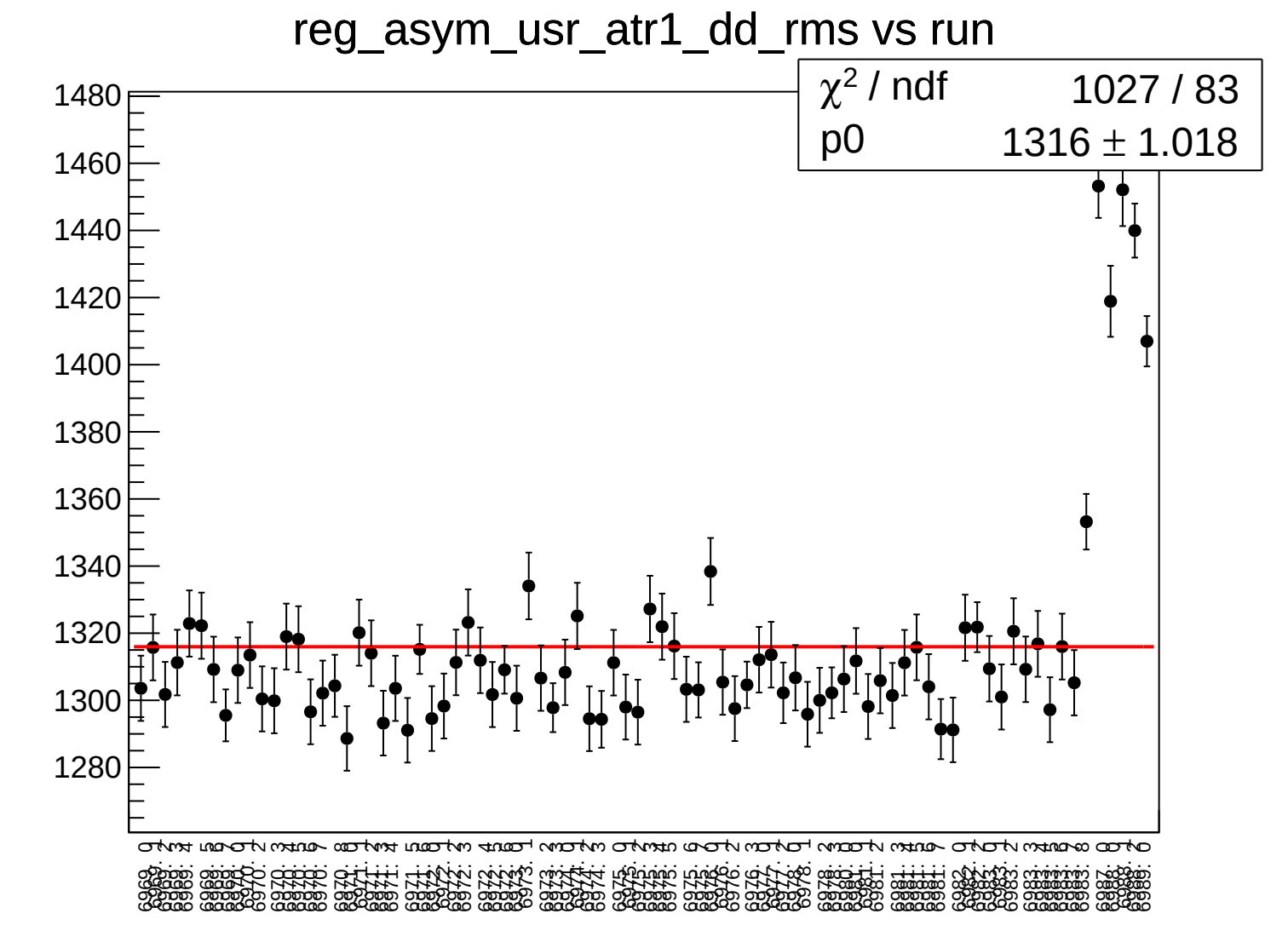

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.9 / 83
p0 2.895e−14 ± 2.62e−14
pull
Entries 84
Mean 26.71
Std Dev 11.39

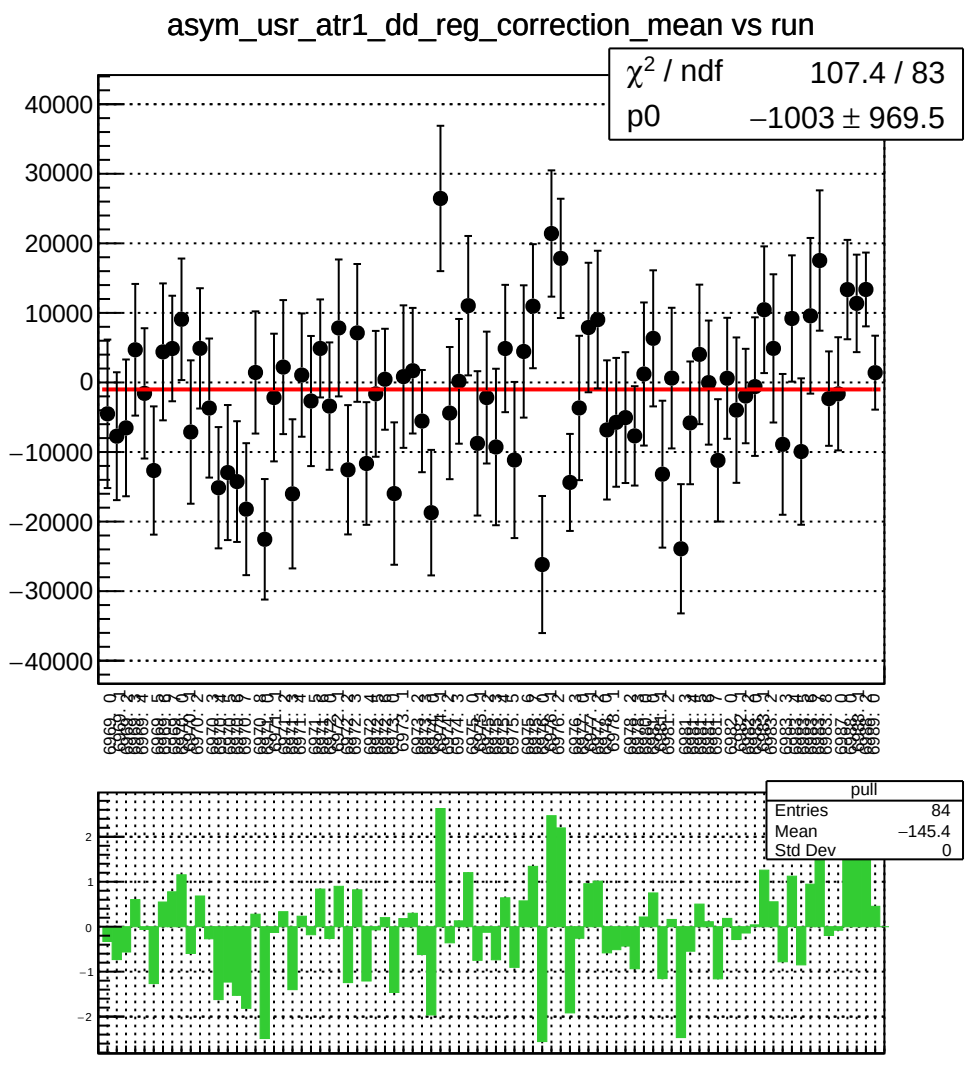

pull1D
Entries 84
Mean 0.1019
Std Dev 1.108

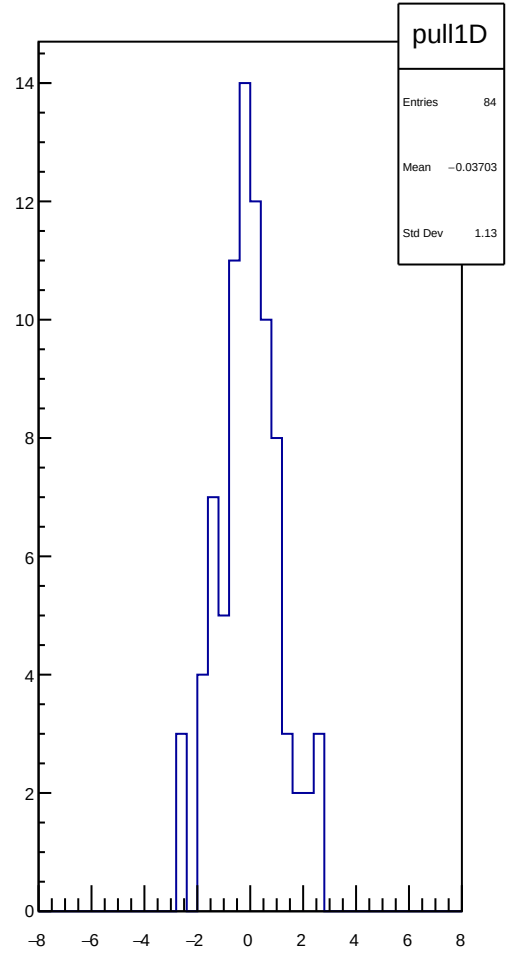

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.517e+05 / 83
p0 1.873e−11 ± 1.853e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

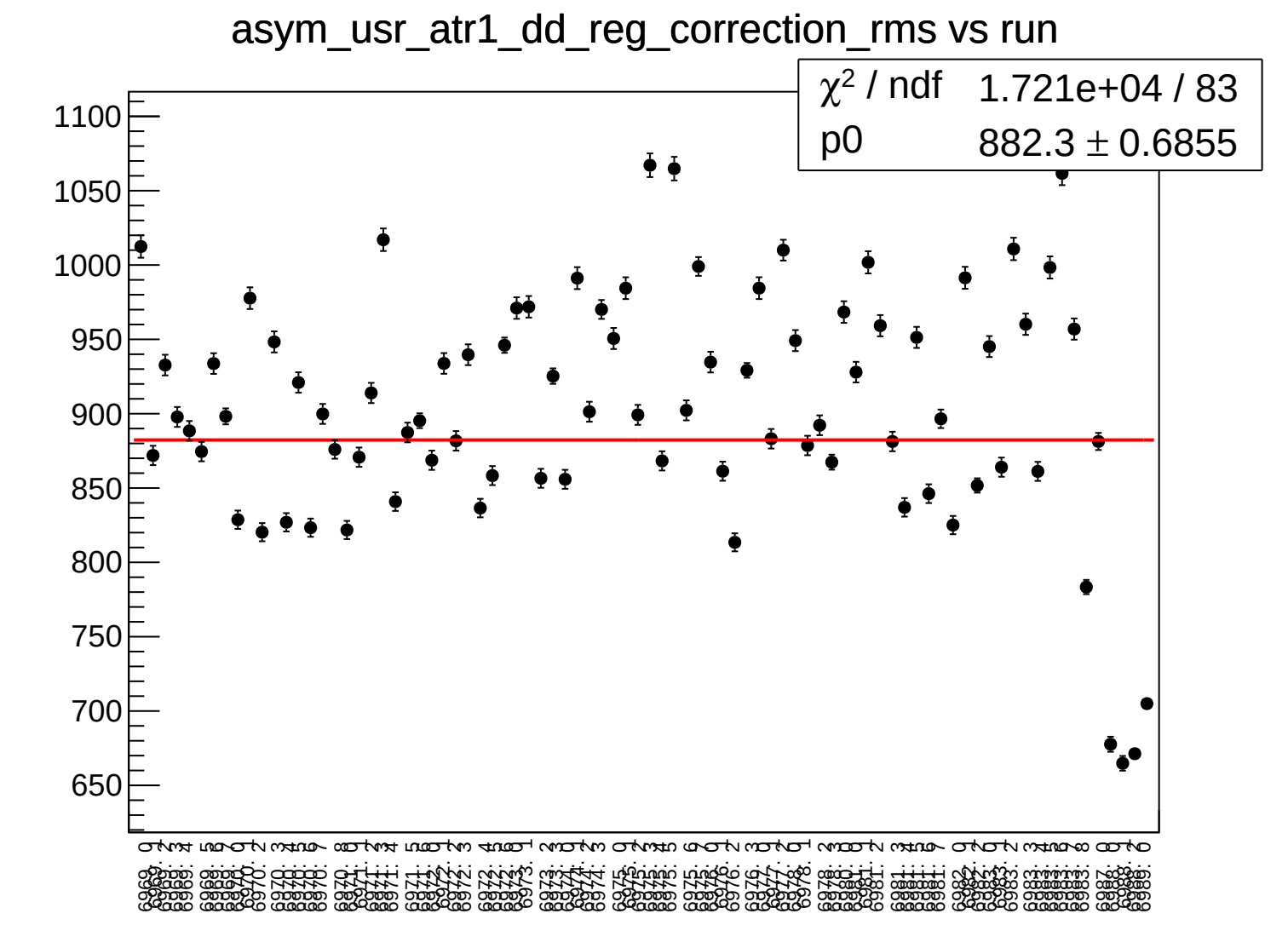

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 80.32 / 83
p0 −1518 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 49.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

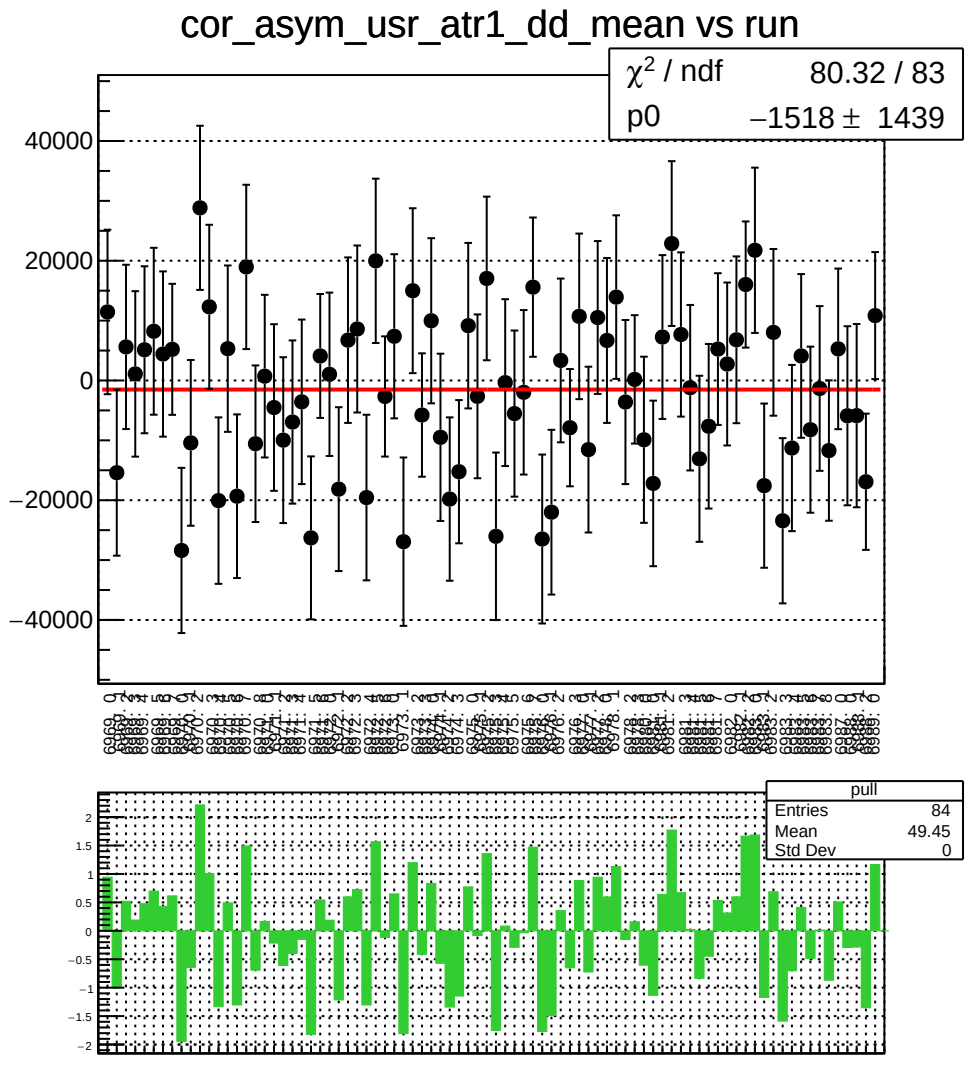

pull1D
Entries 84
Mean −0.00885
Std Dev 0.9778
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

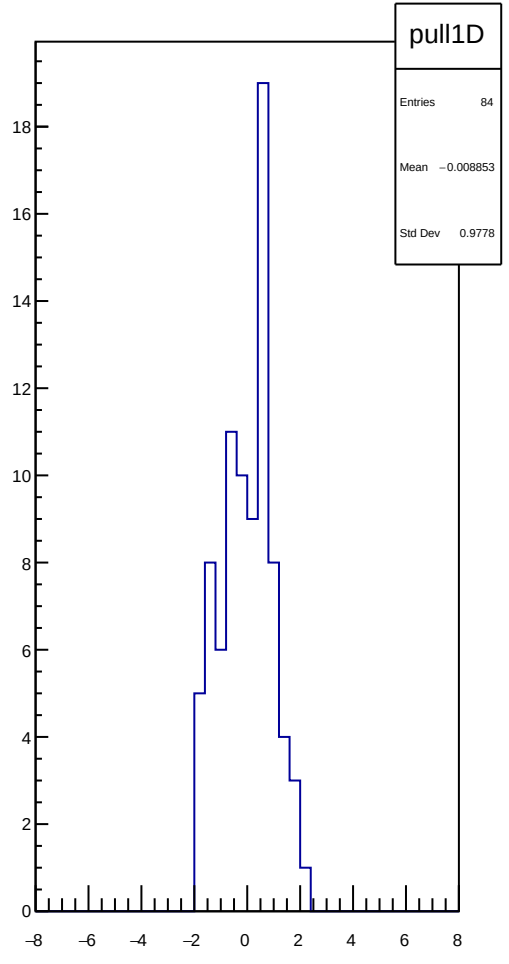

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 1027 / 83
p0 1316 ± 1.018
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

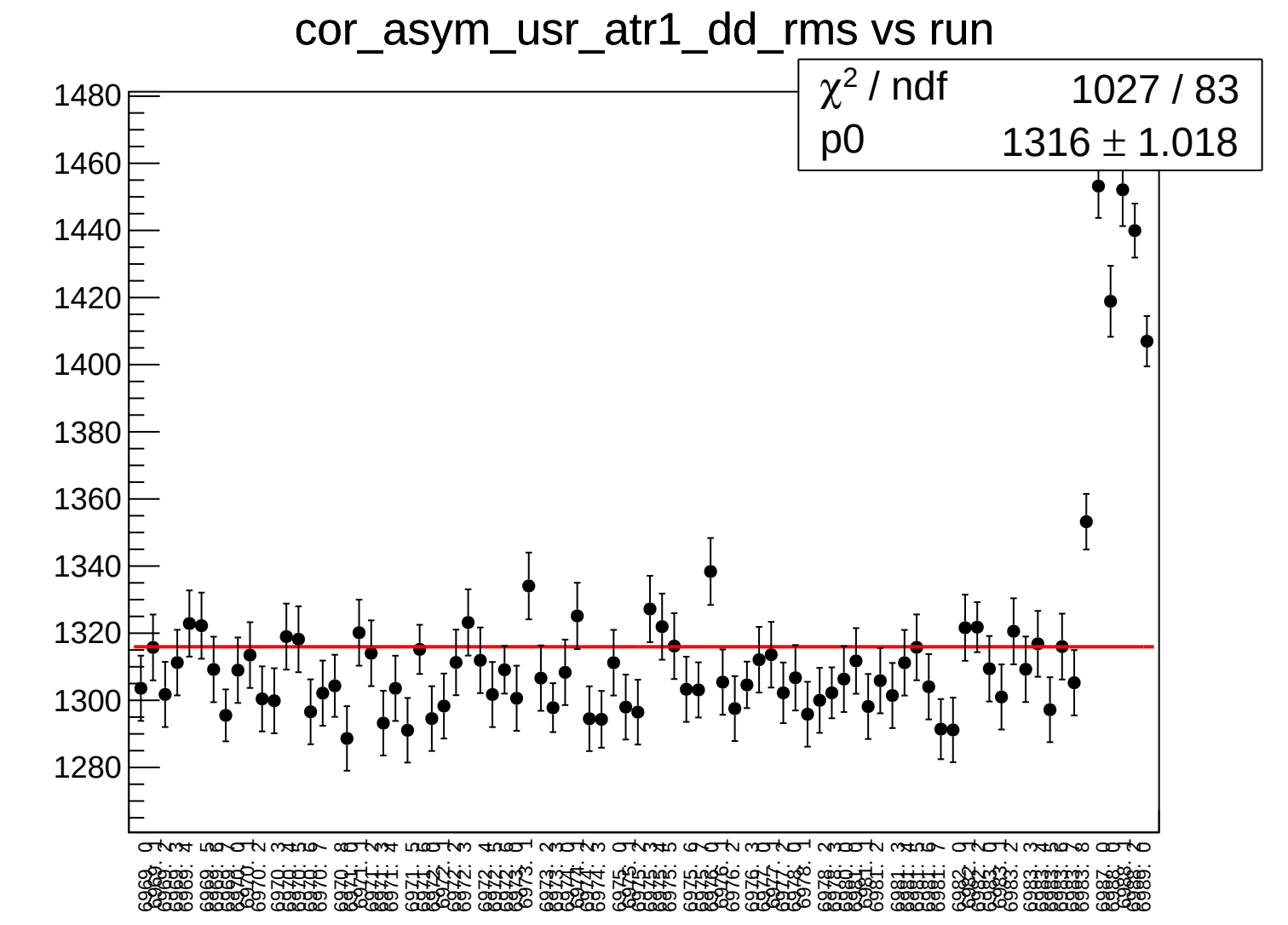

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 107.4 / 83
p0 −1003 ± 969.5
pull
Entries 84
Mean −145.4
Std Dev 0

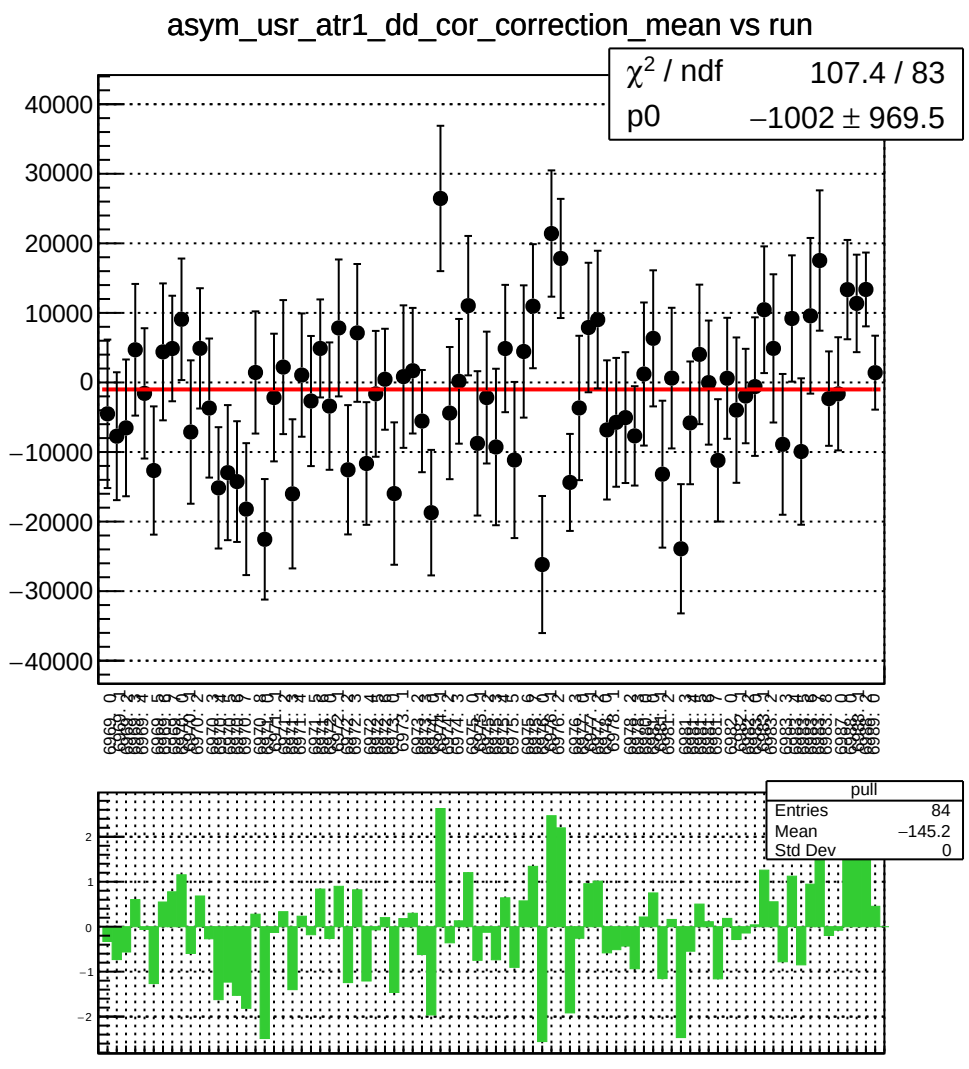

pull1D
Entries 84
Mean −0.03703
Std Dev 1.13

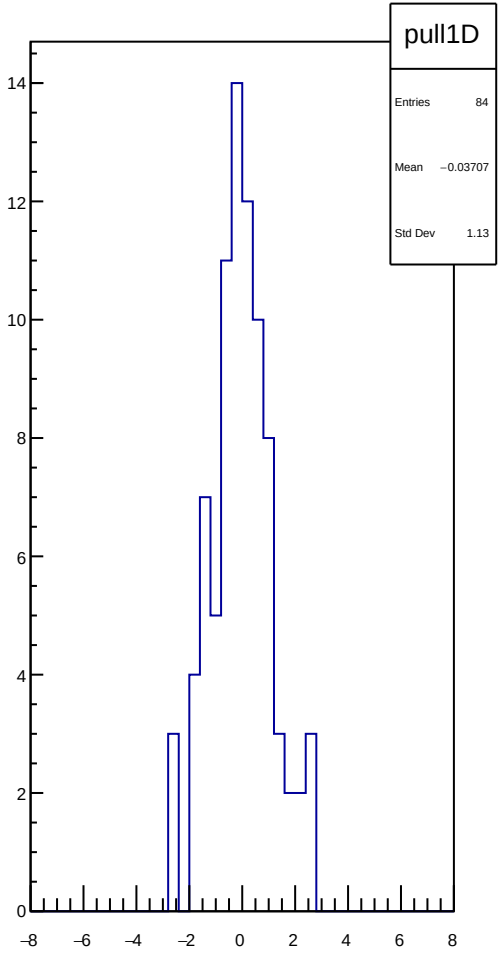

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.721e+04 / 83
p0 882.3 ± 0.6855
1100
1050
1000
950
900
850
800
750
700
650

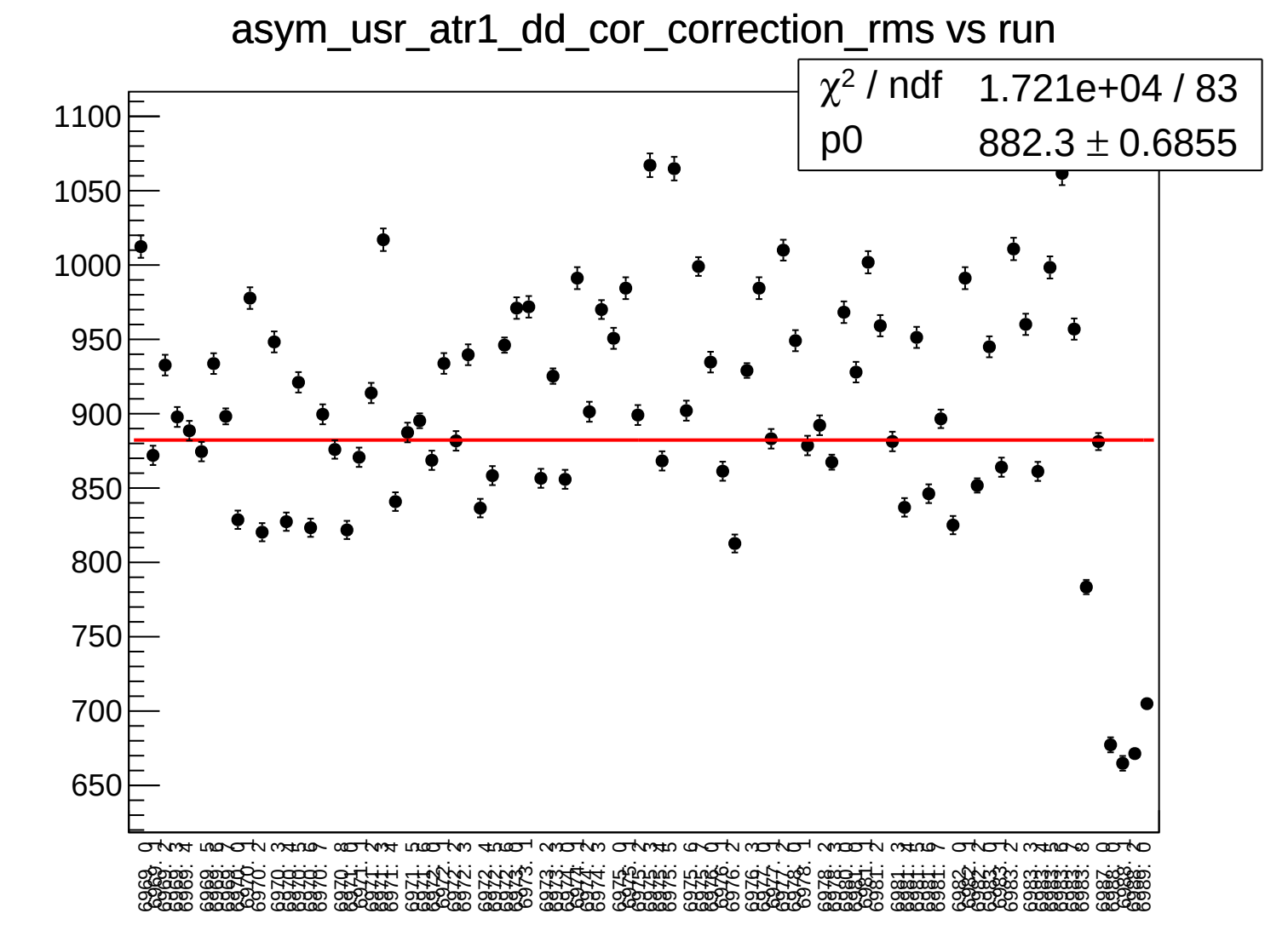

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 80.32 / 83
p0 −1518 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 49.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

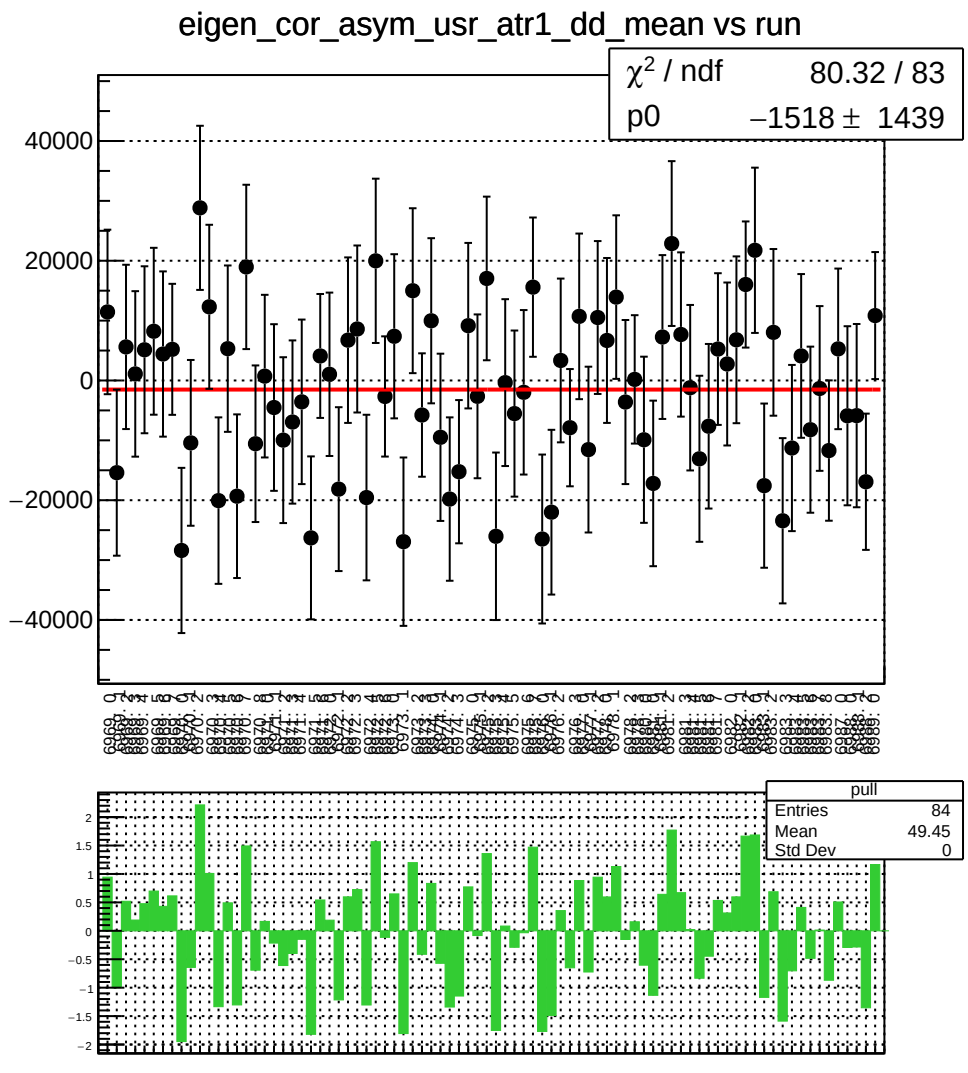

pull1D
Entries 84
Mean −0.008853
Std Dev 0.9778
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

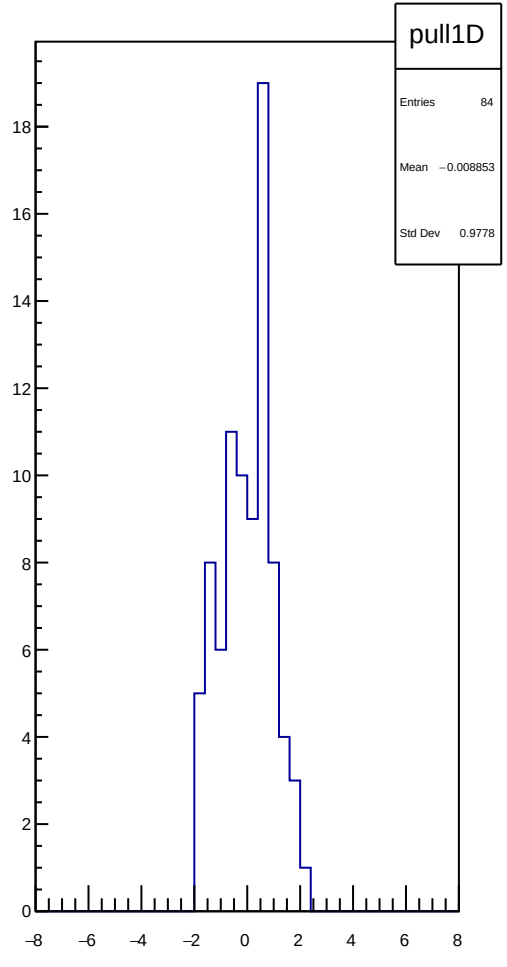

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 1027 / 83
p0 1316 ± 1.018
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

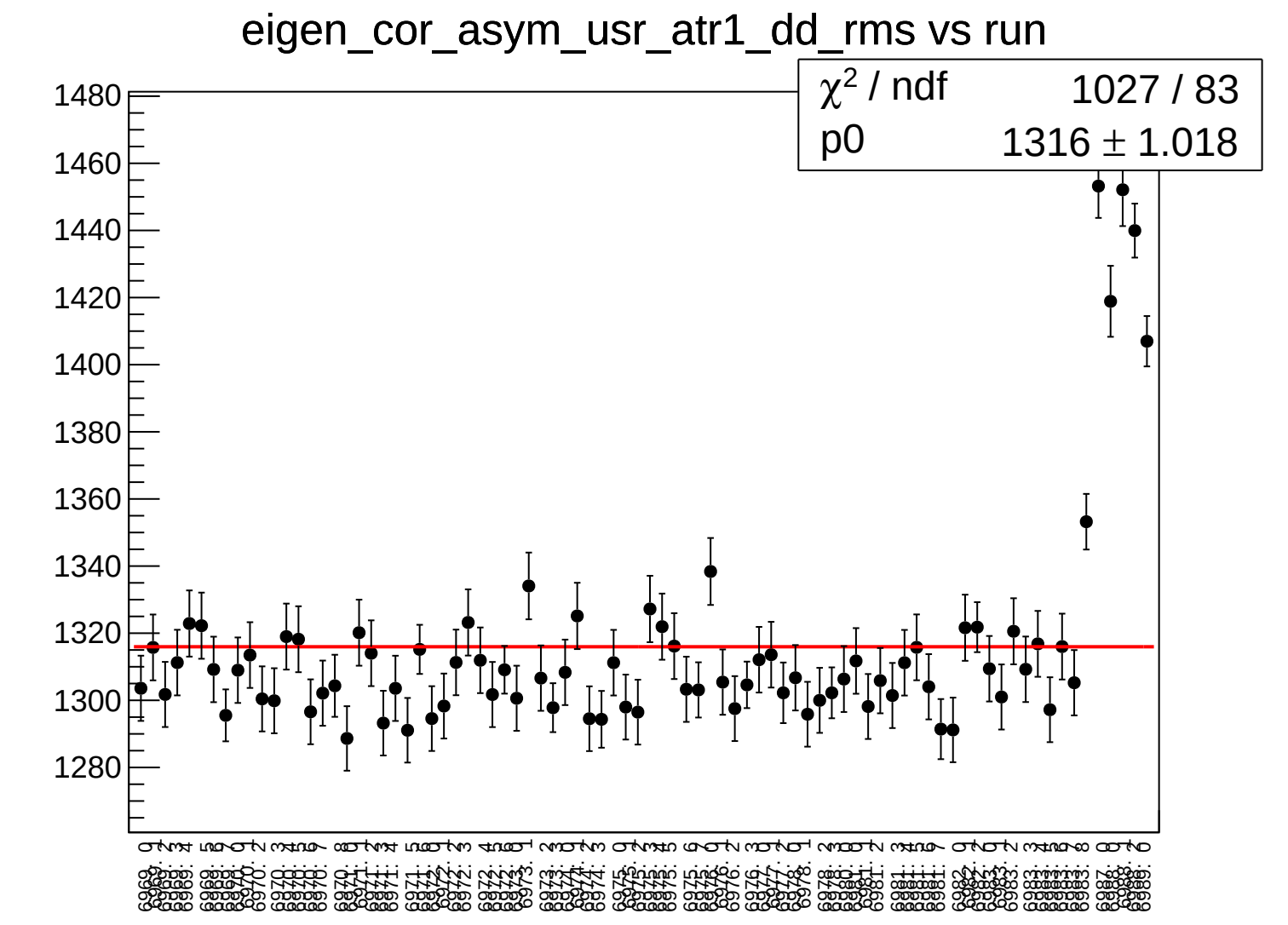

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 107.4 / 83
p0 −1002 ± 969.5
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −145.2
Std Dev 0
2
1
0
−1
−2

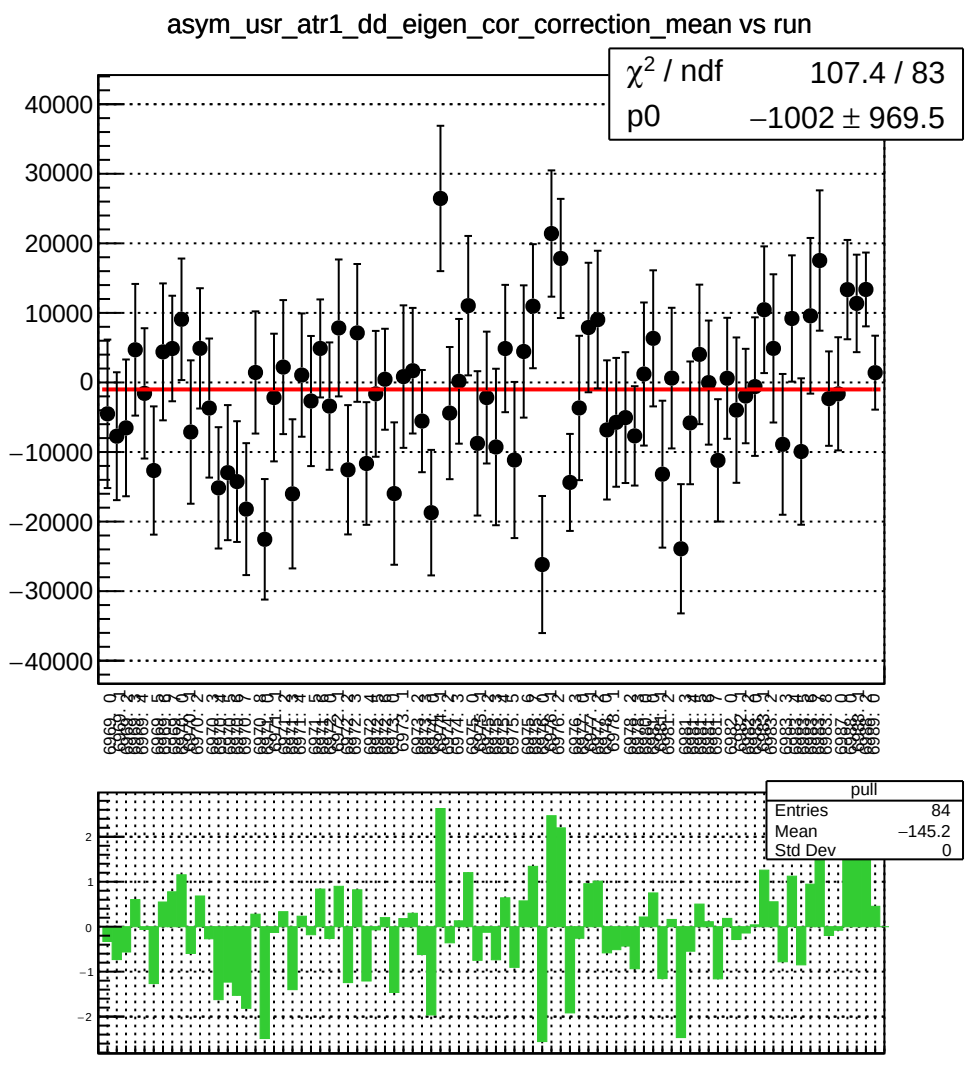

pull1D
Entries 84
Mean −0.03707
Std Dev 1.13
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

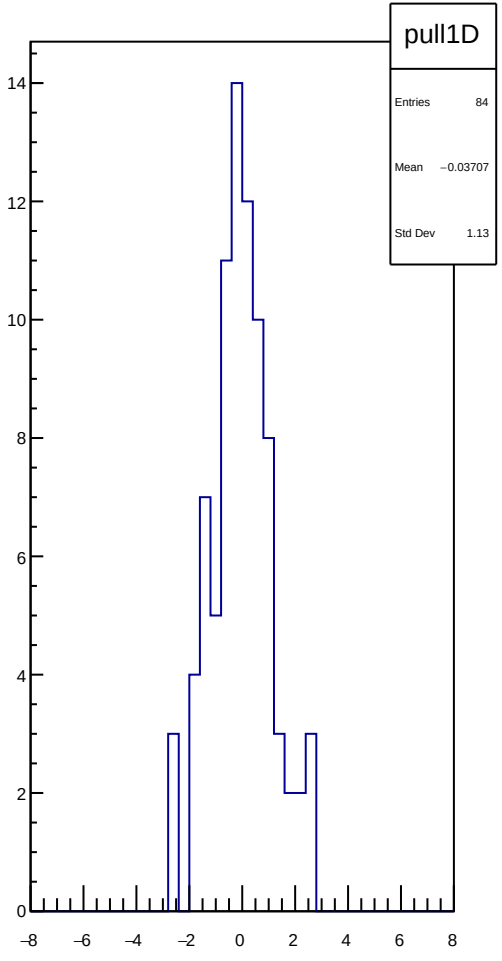

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.721e+04 / 83
p0 882.3 ± 0.6855
1100
1050
1000
950
900
850
800
750
700
650

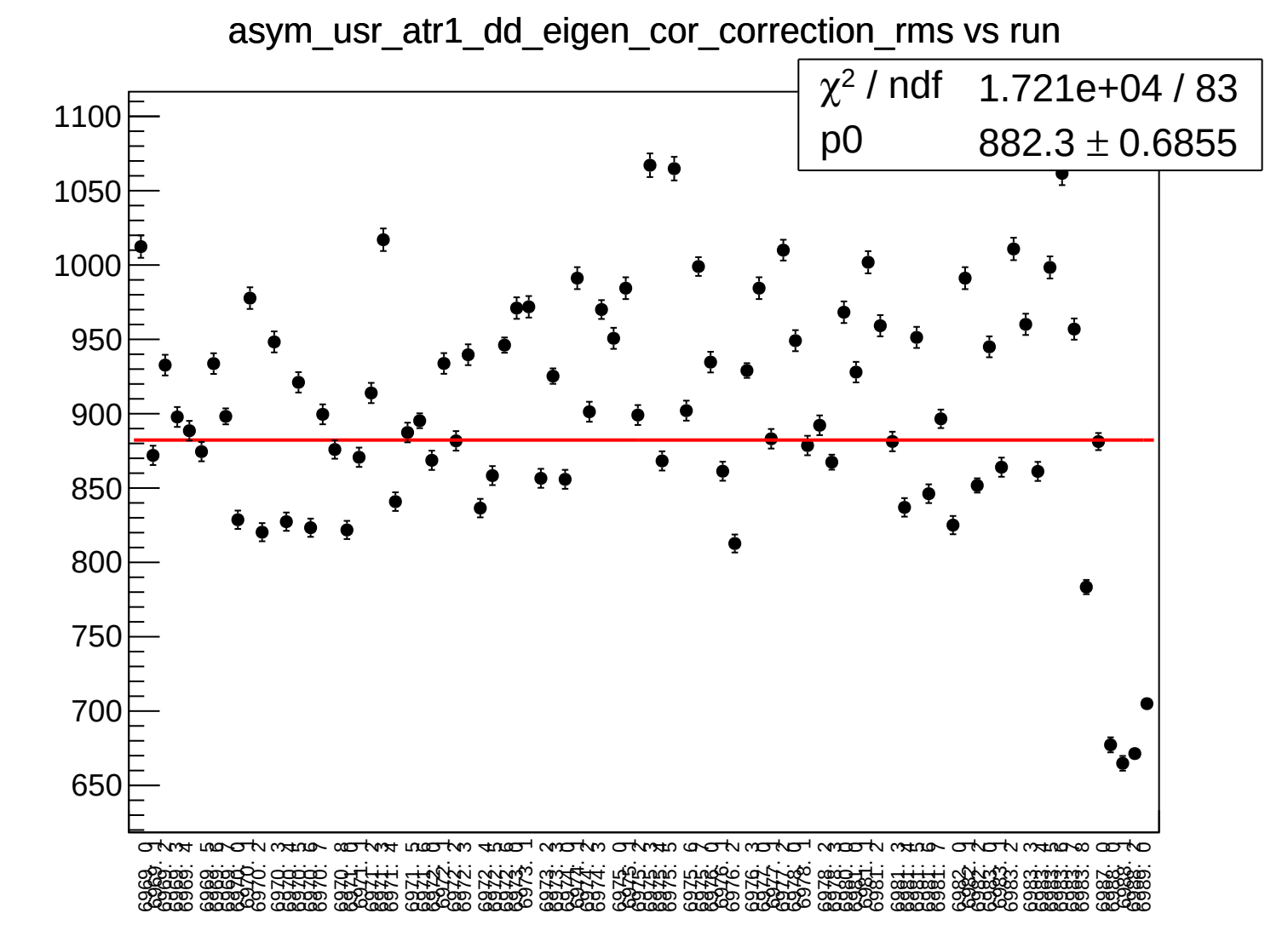

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 80.32 / 83
p0 −1518 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 49.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

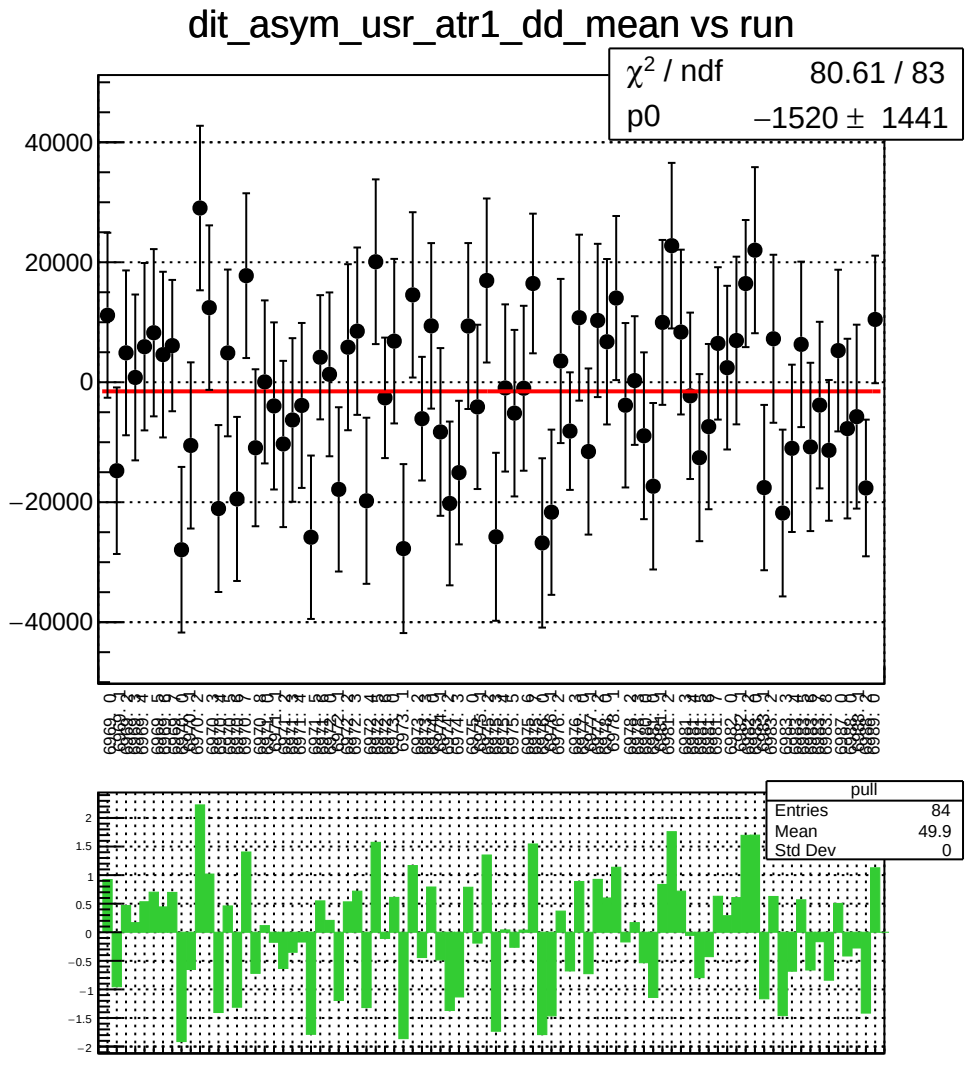

pull1D
Entries 84
Mean −0.008853
Std Dev 0.9778
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

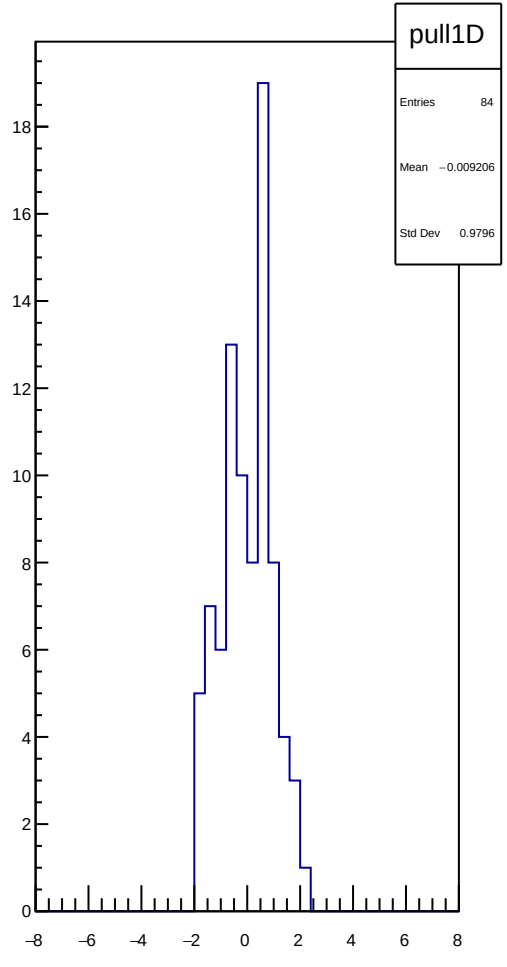

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 1027 / 83
p0 1316 ± 1.018
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

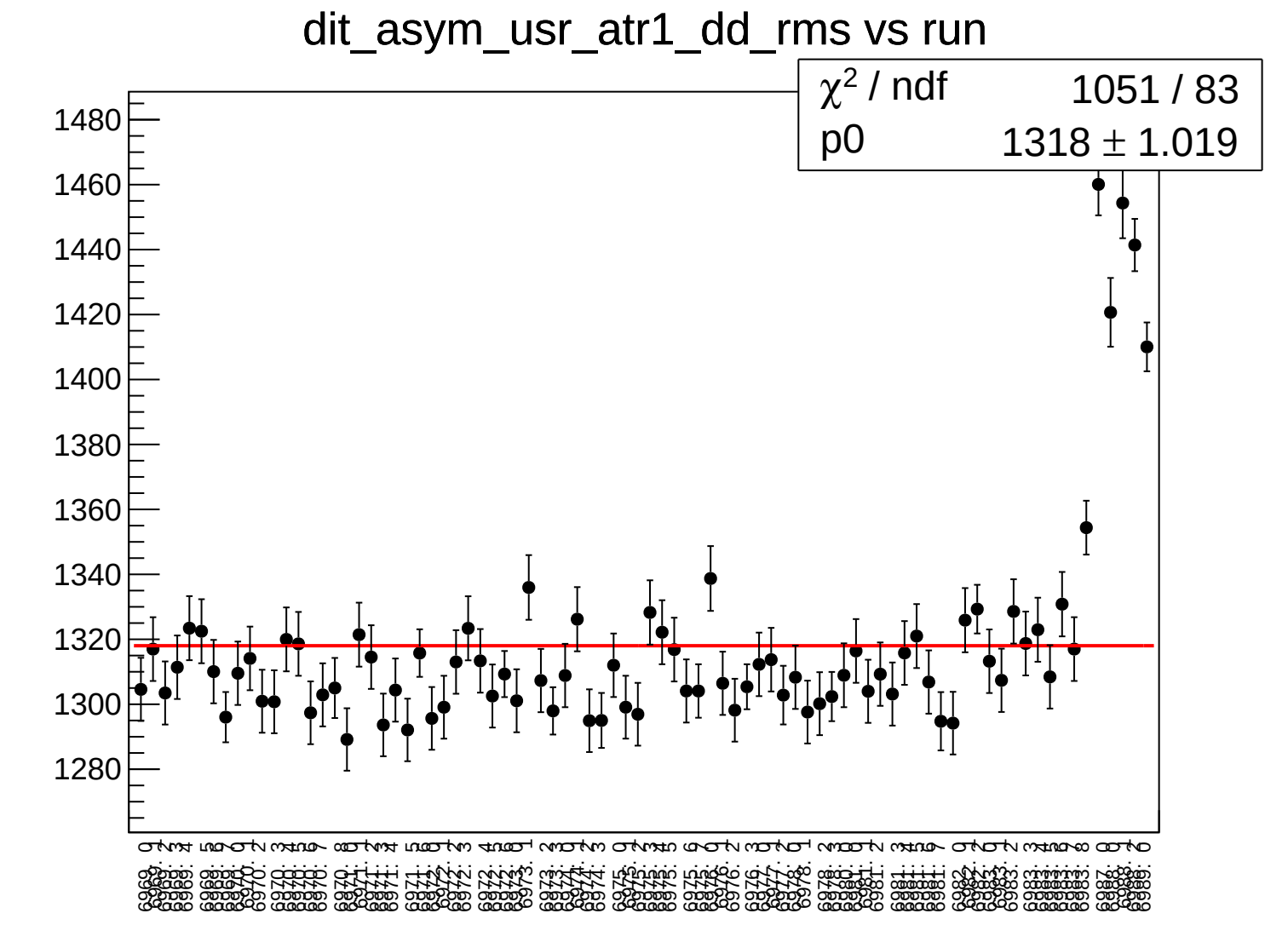

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 107.4 / 83
p0 −1002 ± 969.5
pull
Entries 84
Mean −145.2
Std Dev 0

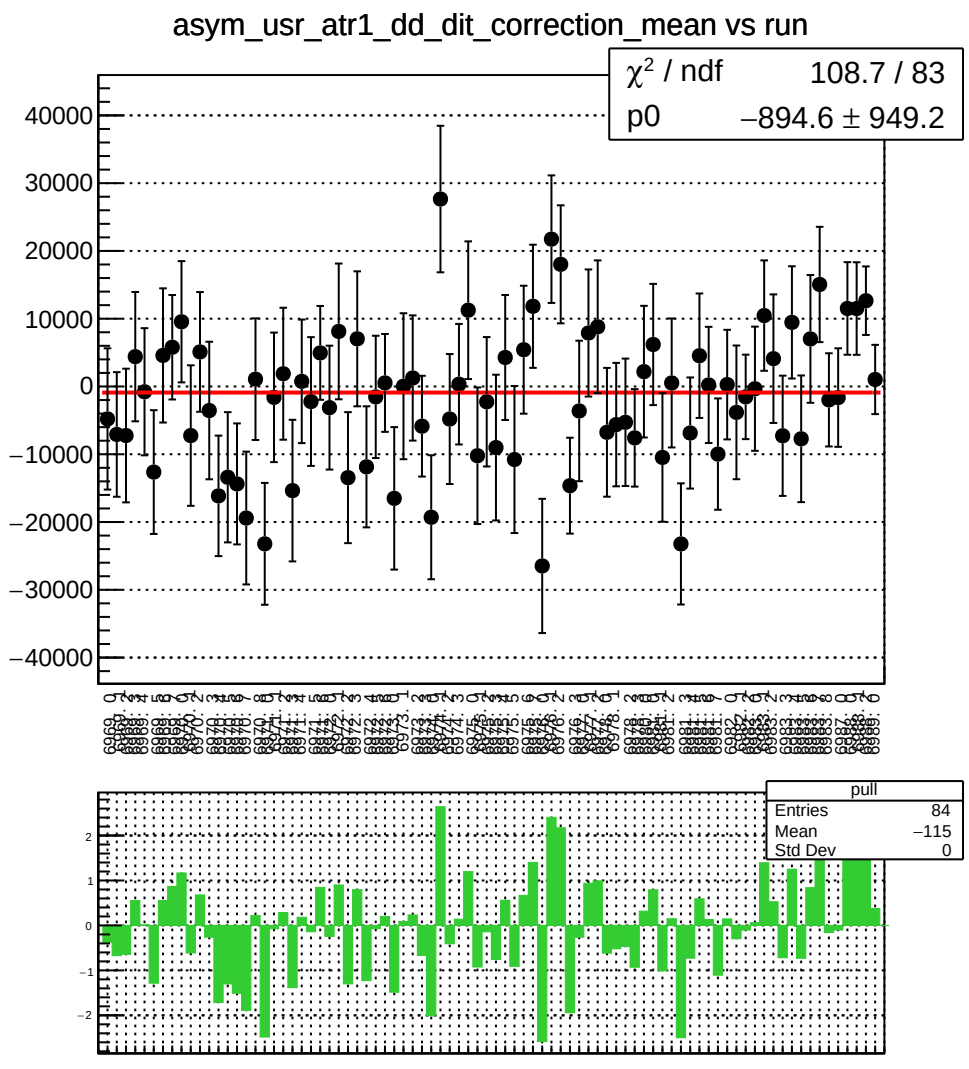

pull1D
Entries 84
Mean −0.03707
Std Dev 1.13

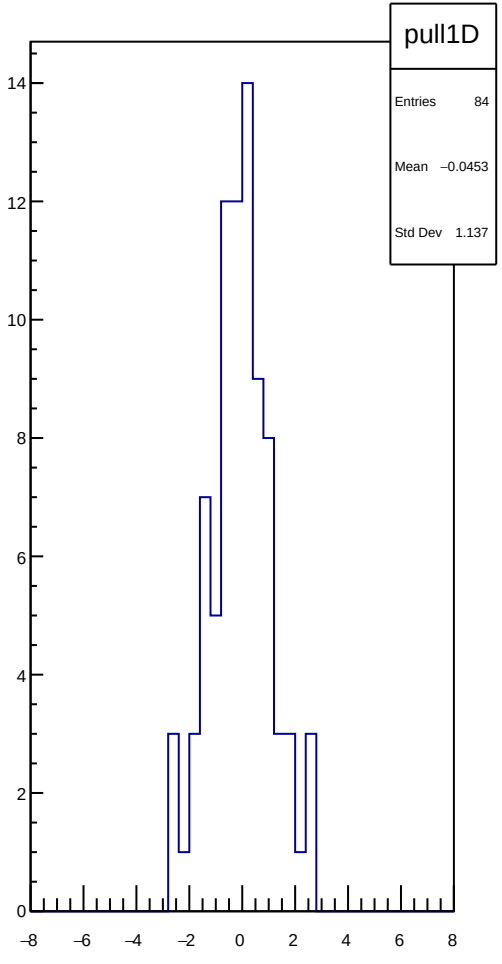

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.721e+04 / 83
p0 882.3 ± 0.6855
1100
1050
1000
950
900
850
800
750
700
650

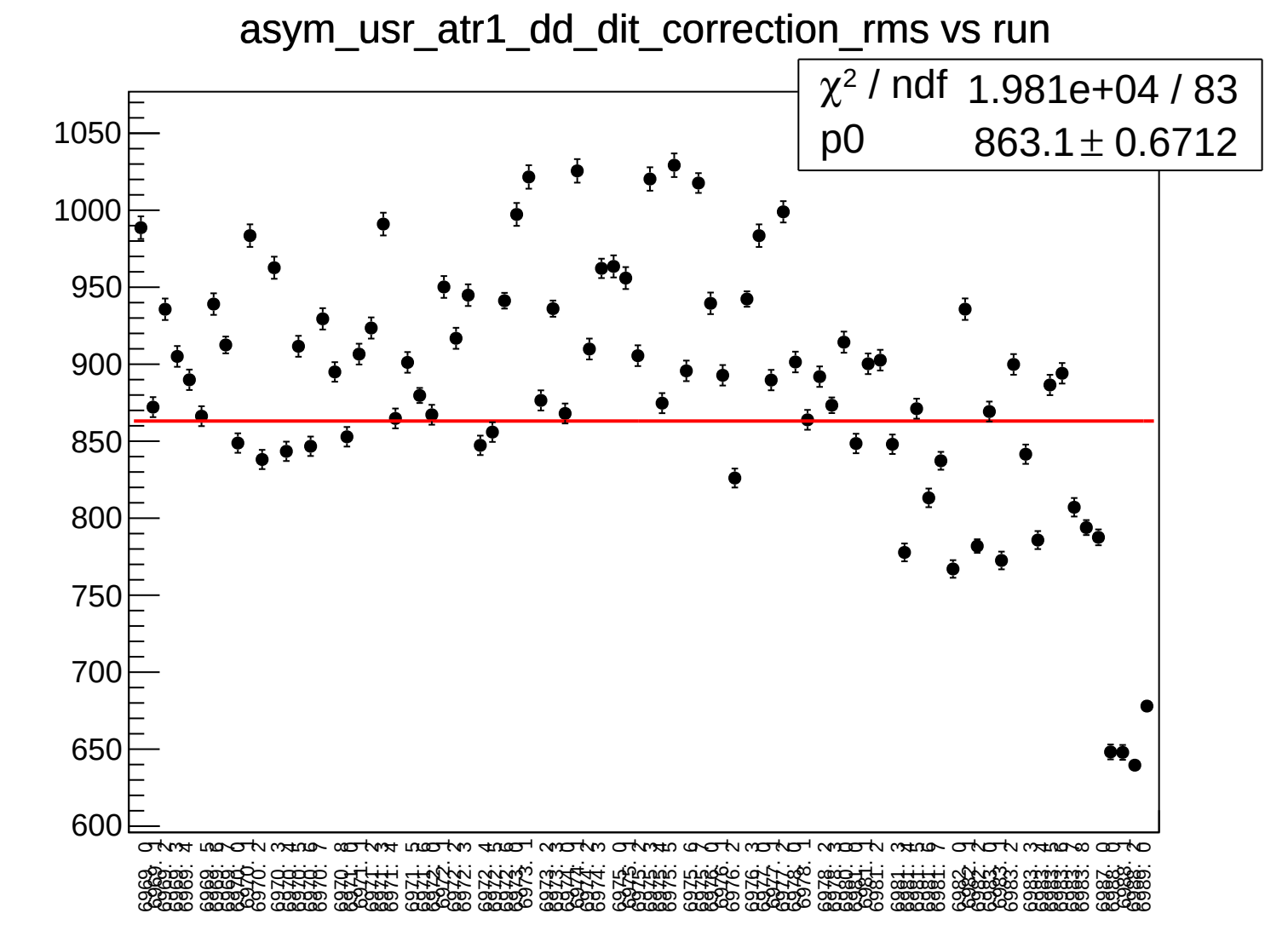

dit_asym_usr_atr1_dd_mean vs run
χ^2 / ndf 80.61 / 83
p0 −1520 ± 1441
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 49.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

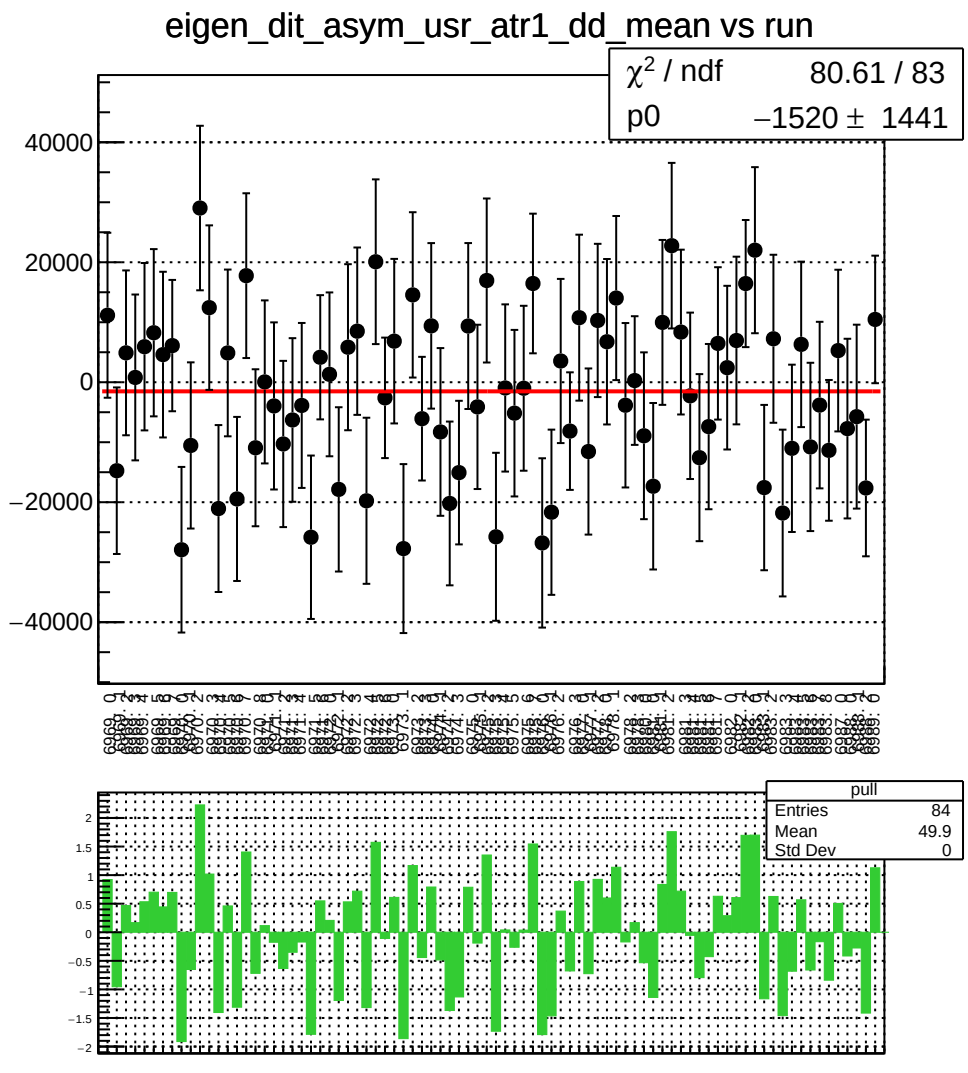

pull1D
Entries 84
Mean −0.009206
Std Dev 0.9796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

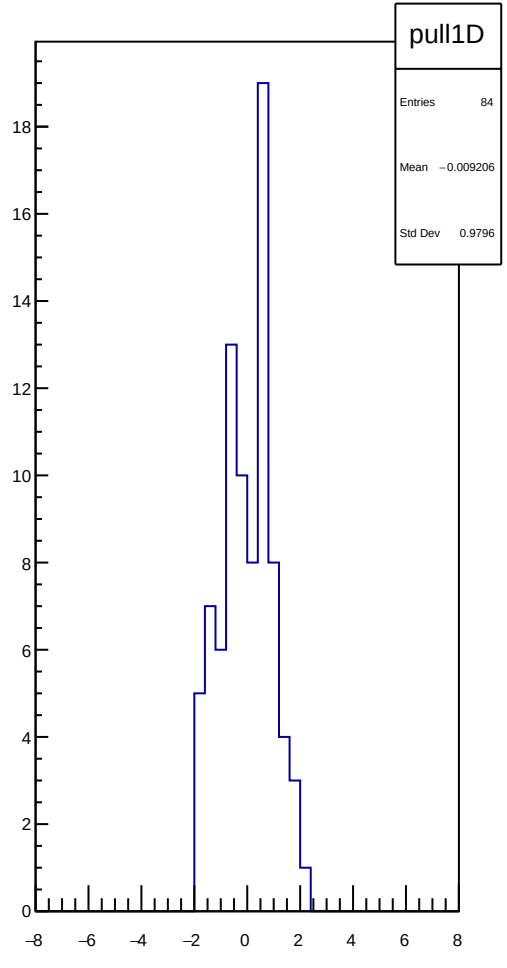

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 1051 / 83
p0 1318 ± 1.019
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

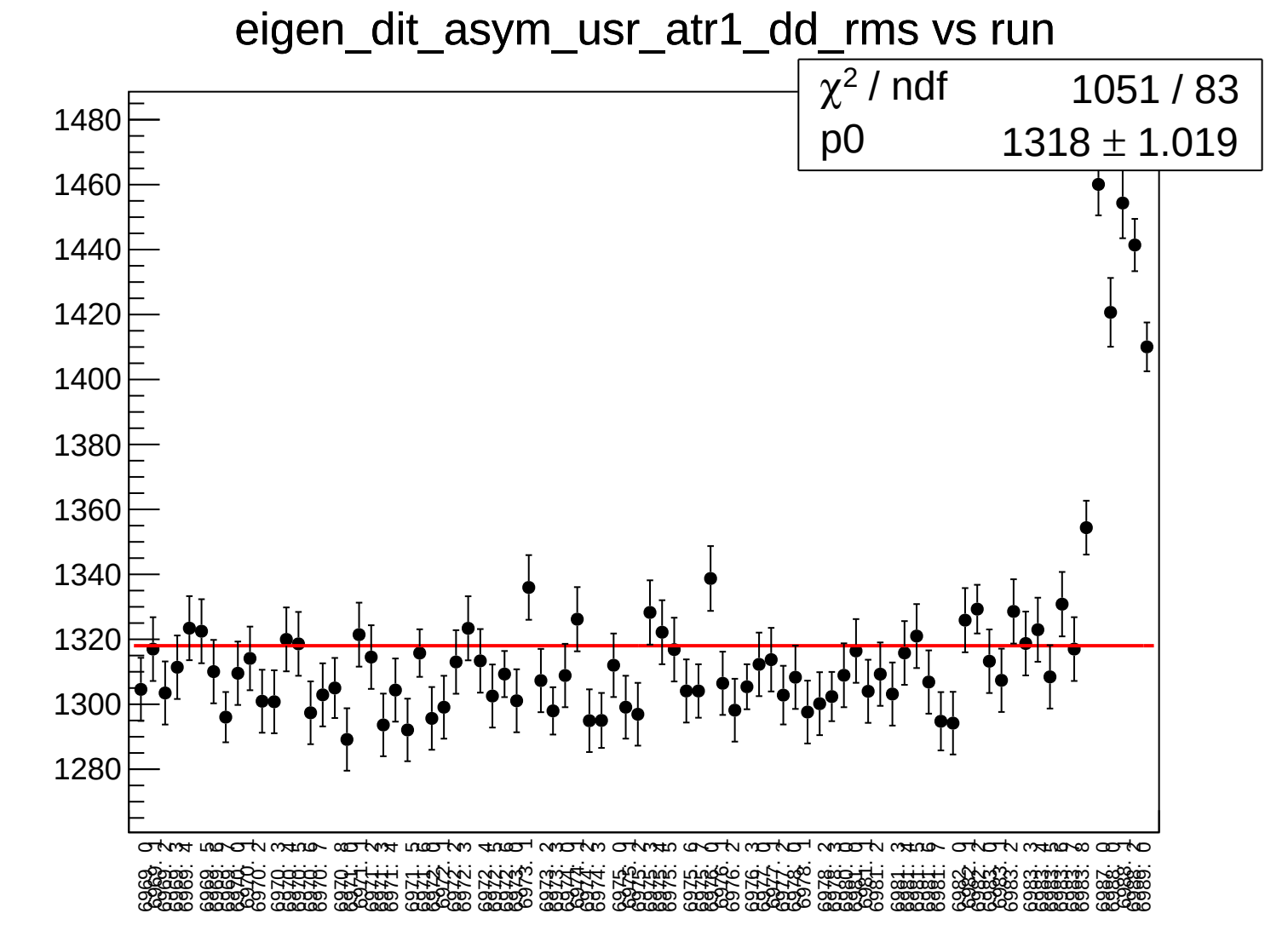

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 108.7 / 83
p0 −894.6 ± 949.2
pull
Entries 84
Mean −115
Std Dev 0

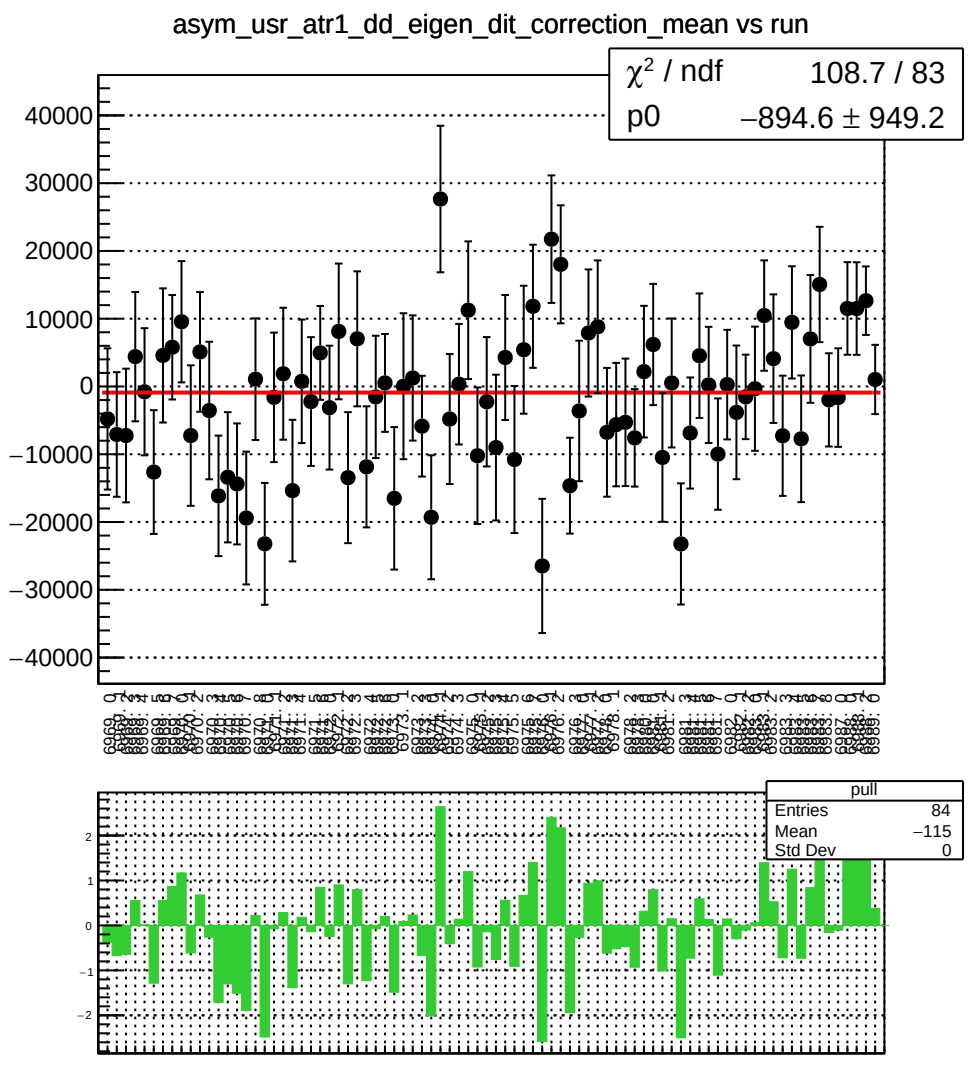

pull1D
Entries 84
Mean −0.0453
Std Dev 1.137

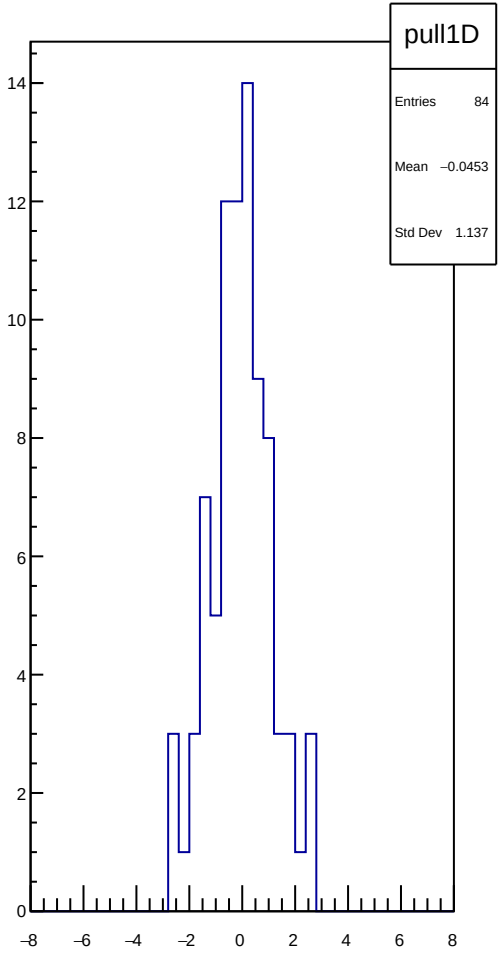

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.981e+04 / 83
p0 863.1 ± 0.6712
1050
1000
950
900
850
800
750
700
650
600

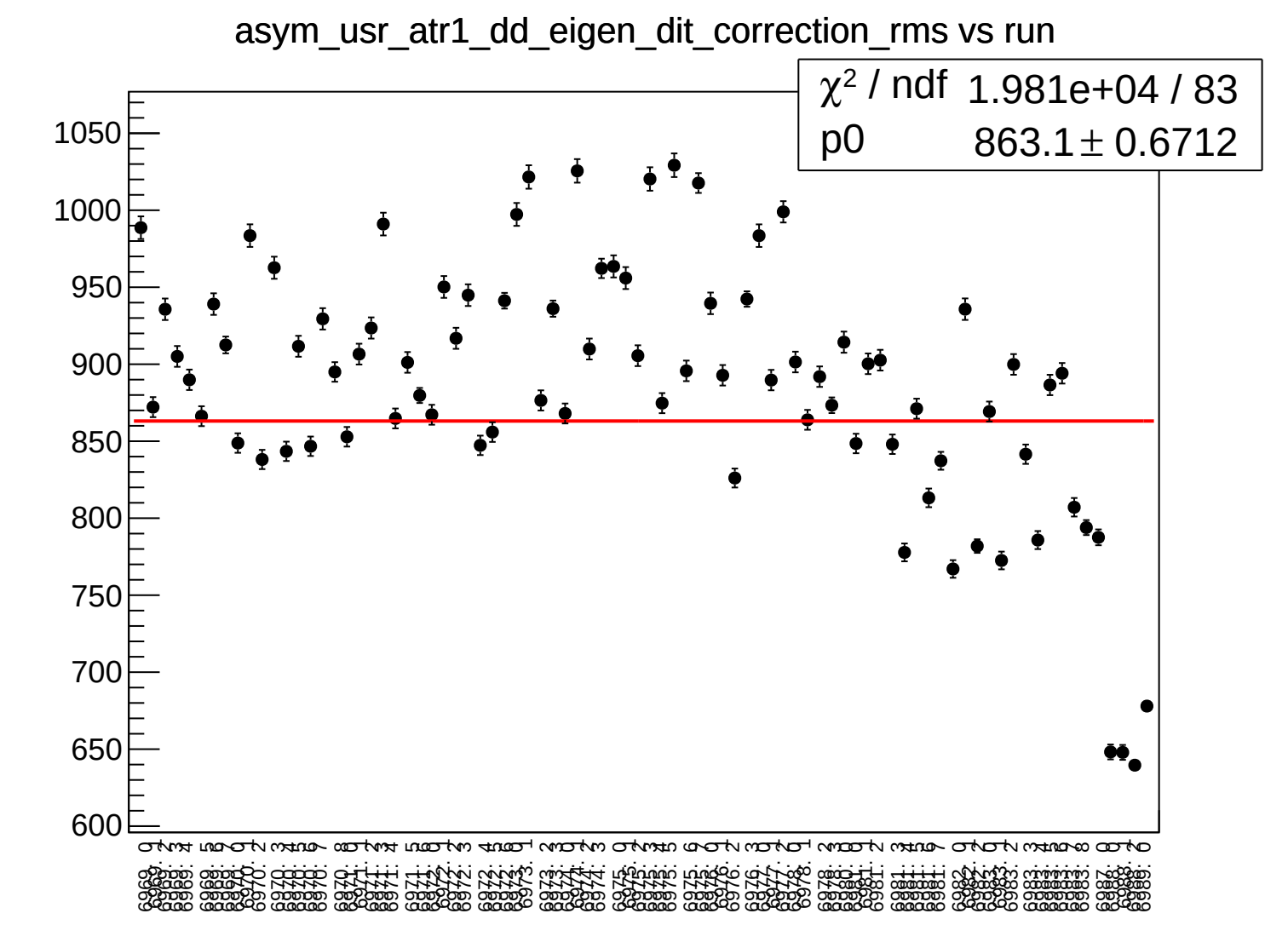

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 80.61 / 83
p0 −1520 ± 1441
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 49.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

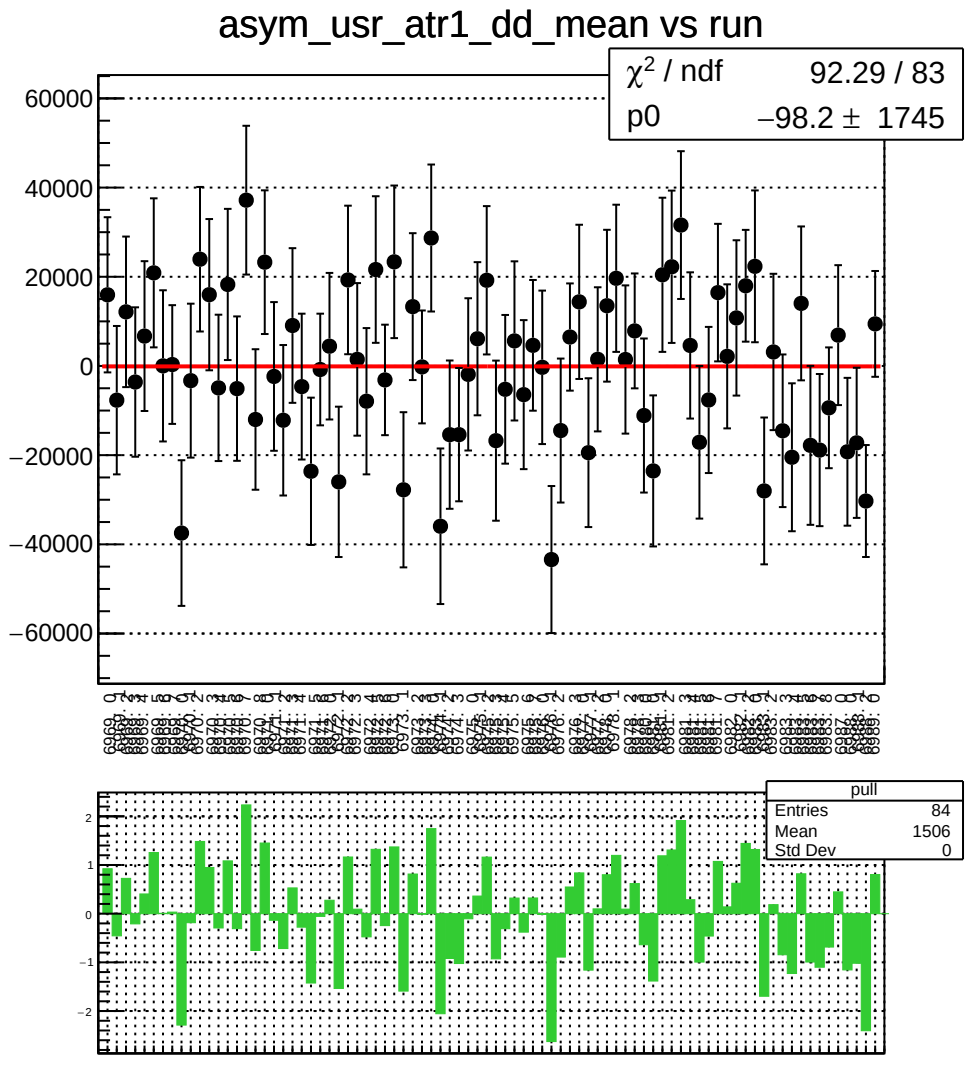

pull1D
Entries 84
Mean −0.009206
Std Dev 0.9796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

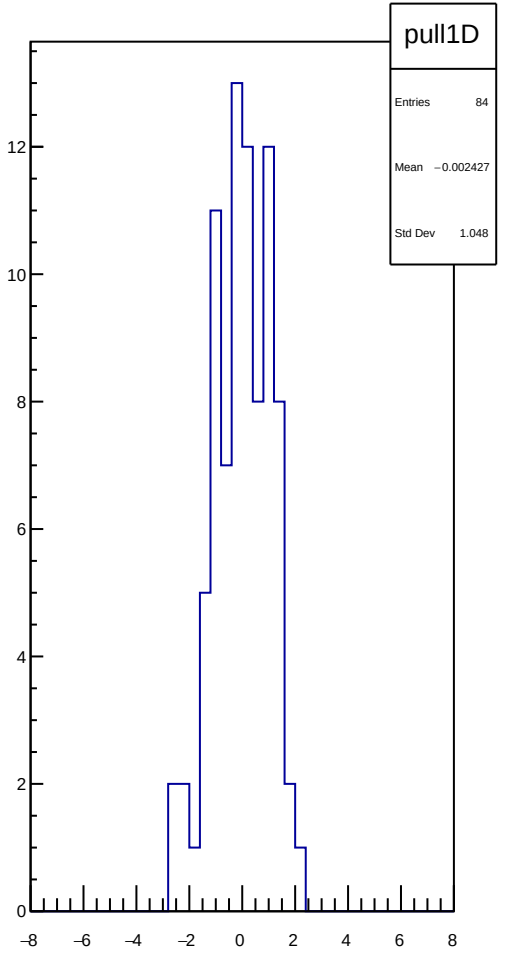

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 1051 / 83
p0 1318 ± 1.019
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

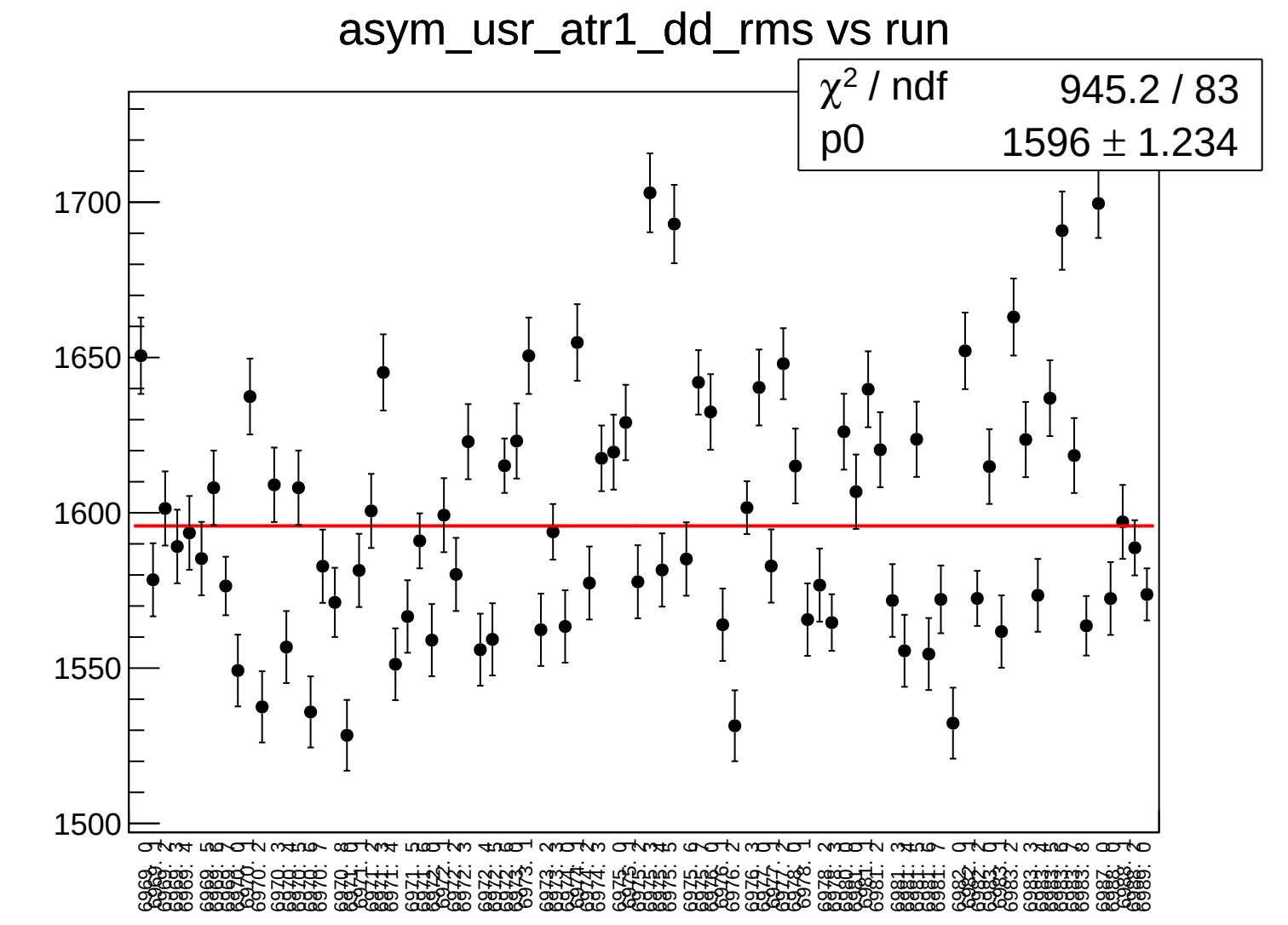

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 108.7 / 83
p0 −894.6 ± 949.2
pull
Entries 84
Mean −115
Std Dev 0

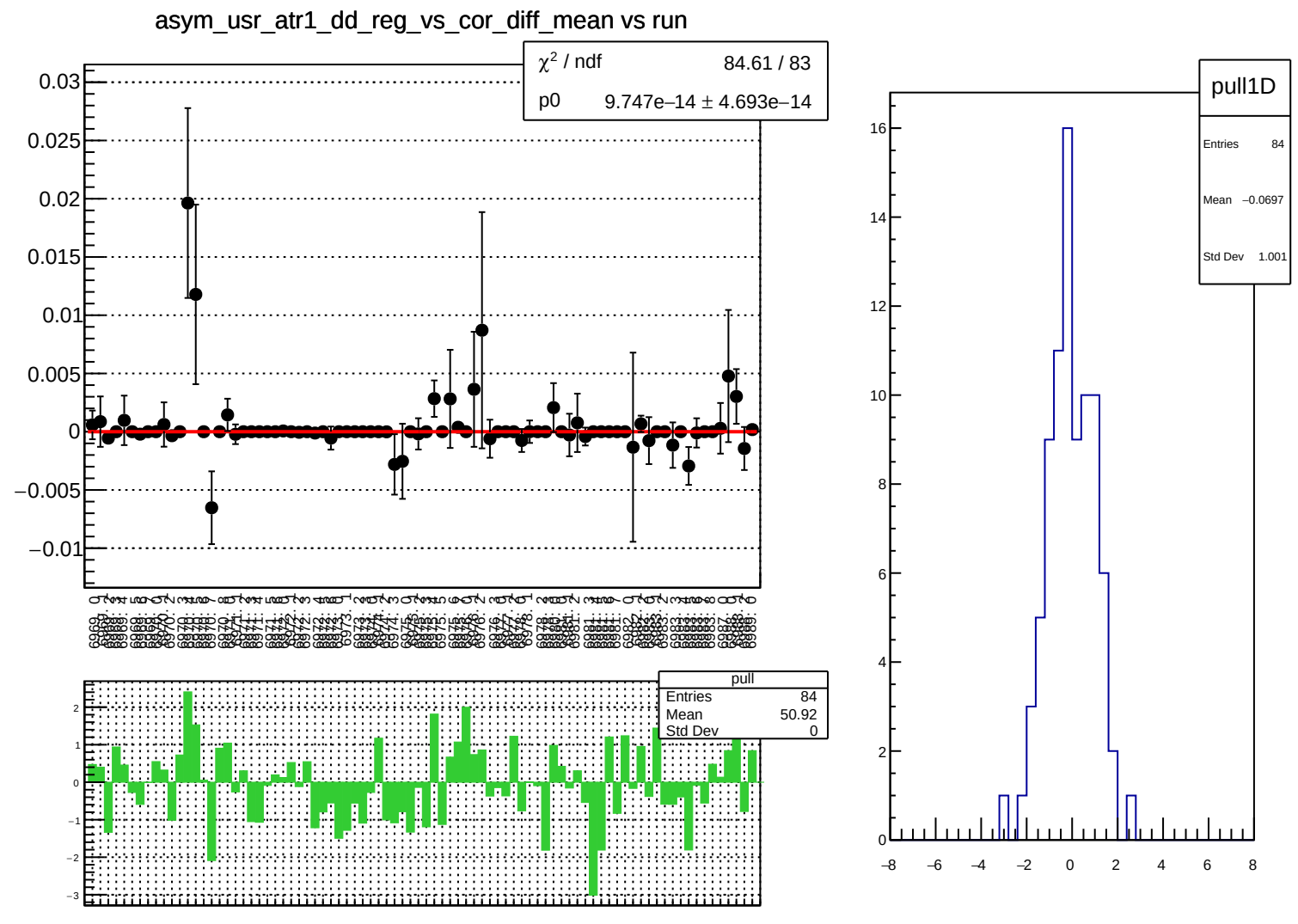

pull1D
Entries 84
Mean −0.0453
Std Dev 1.137

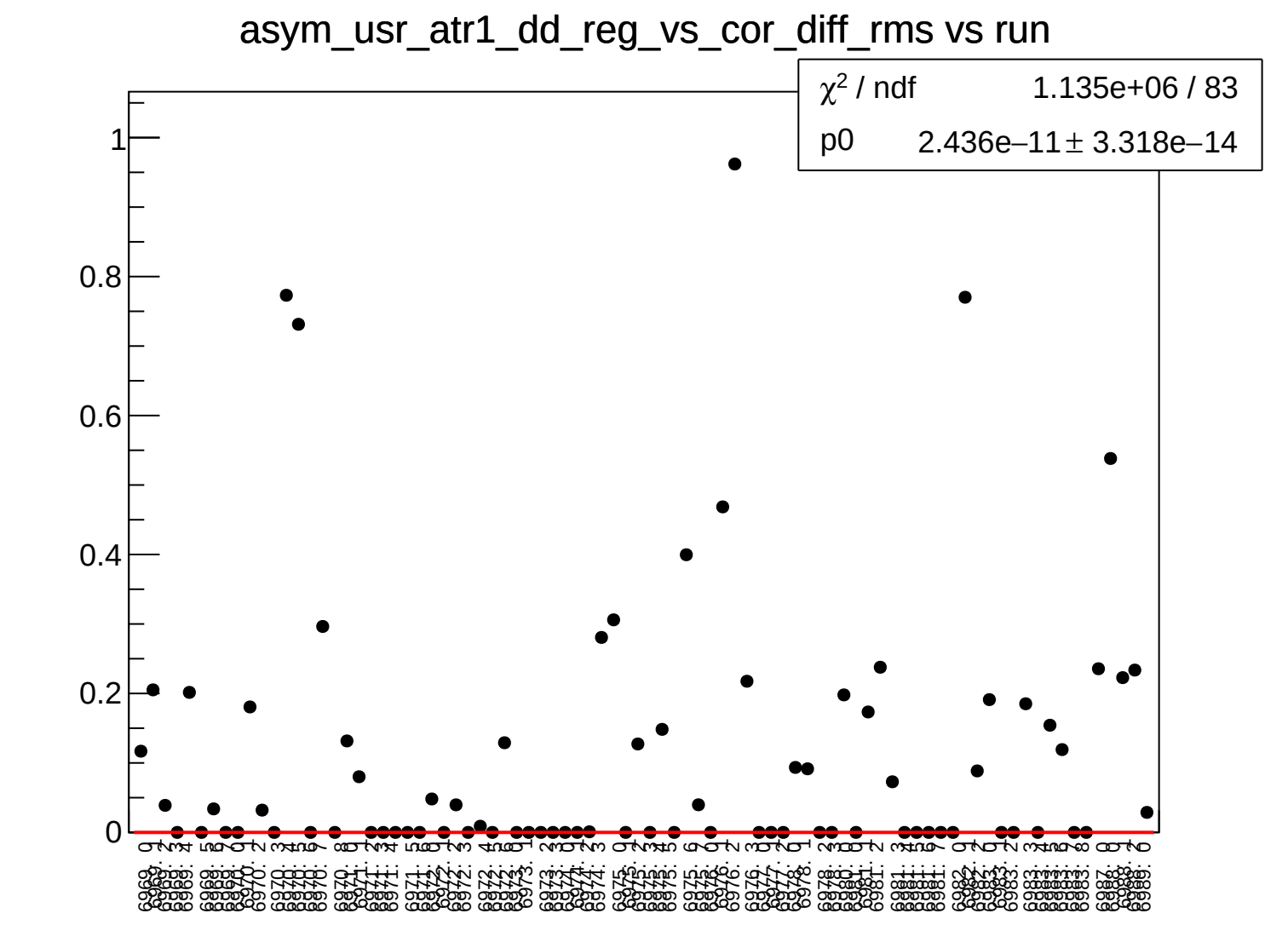

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.981e+04 / 83
p0 863.1 ± 0.6712
1050
1000
950
900
850
800
750
700
650
600

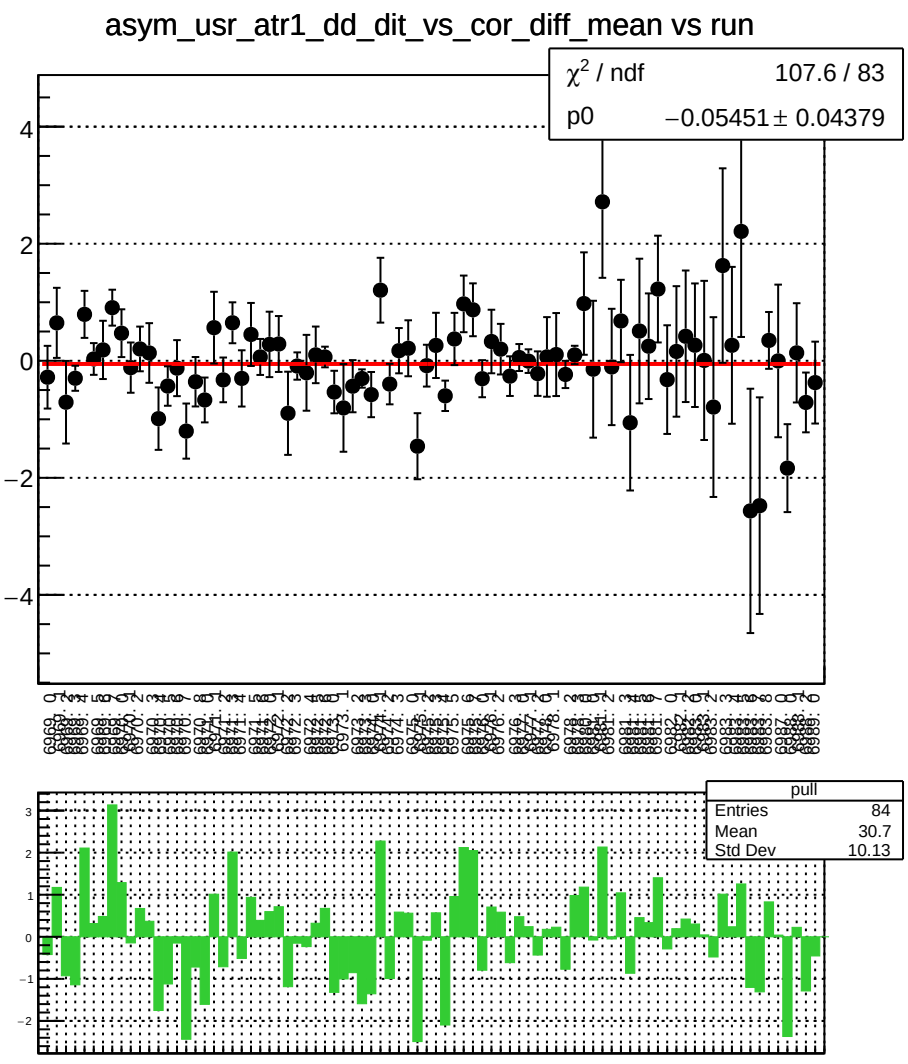

asym_usr_atr1_dd_mean vs run
χ² / ndf 92.29 / 83
p0 −98.2 ± 1745
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1506
Std Dev 0
2
1
0
−1
−2

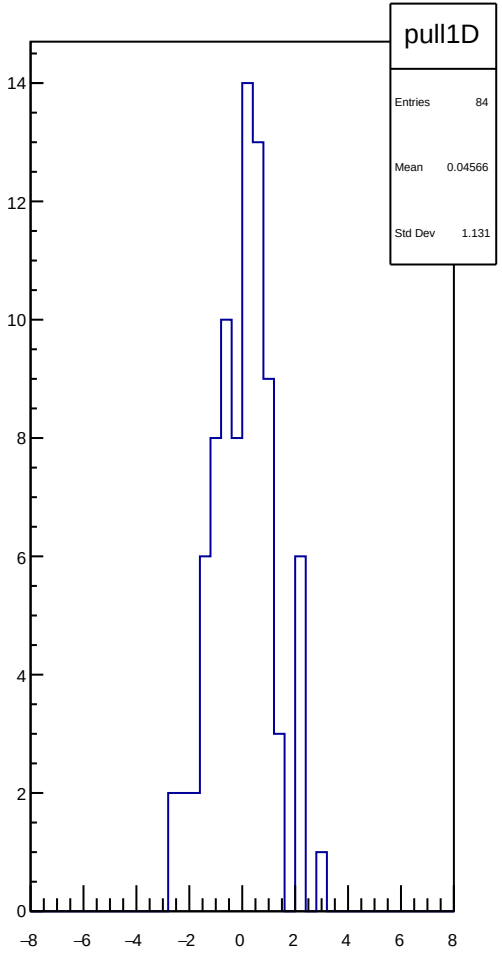

pull1D
Entries 84
Mean −0.002427
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

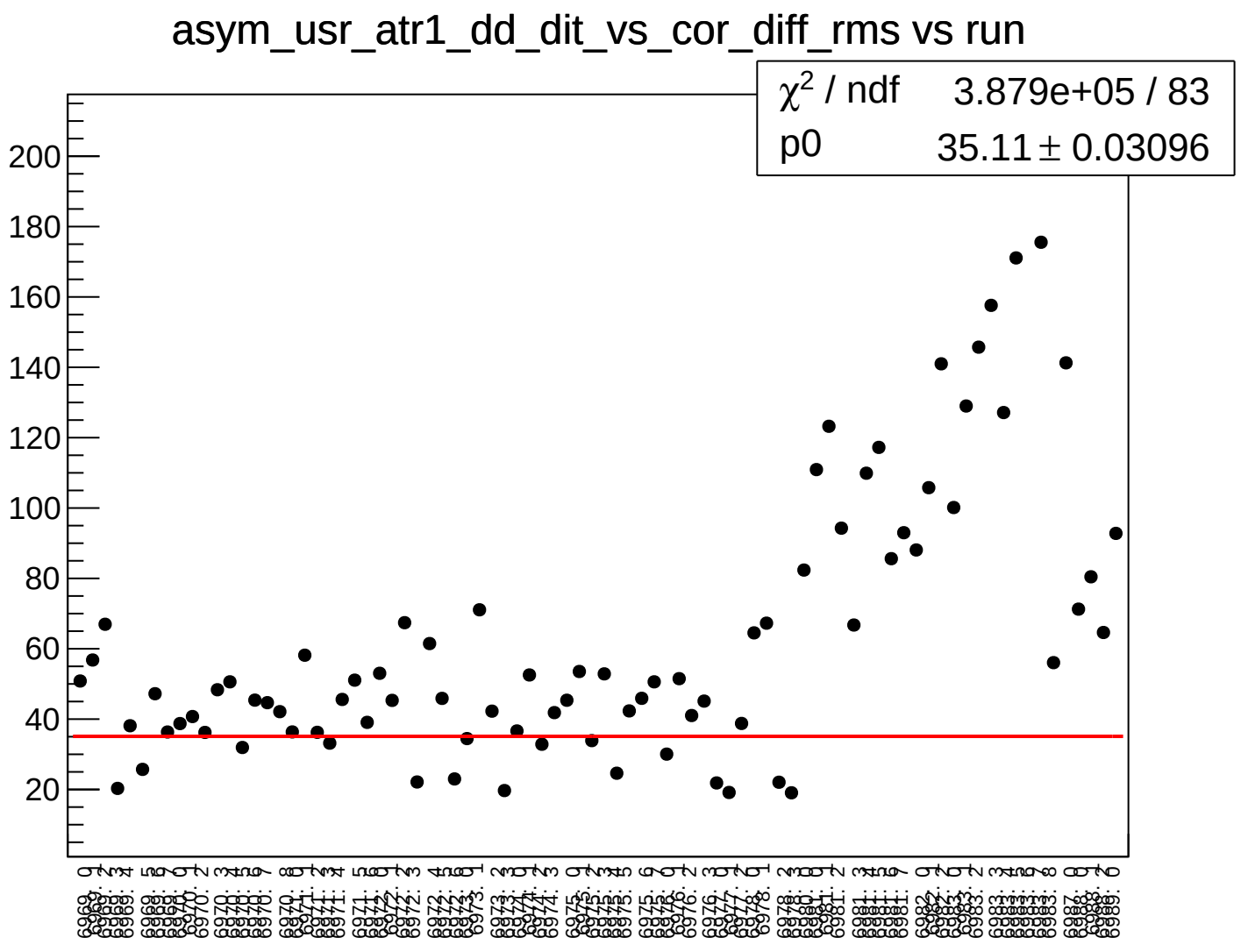

asym_usr_atr1_dd_rms vs run
χ² / ndf 945.2 / 83
p0 1596 ± 1.234
1700
1650
1600
1550
1500

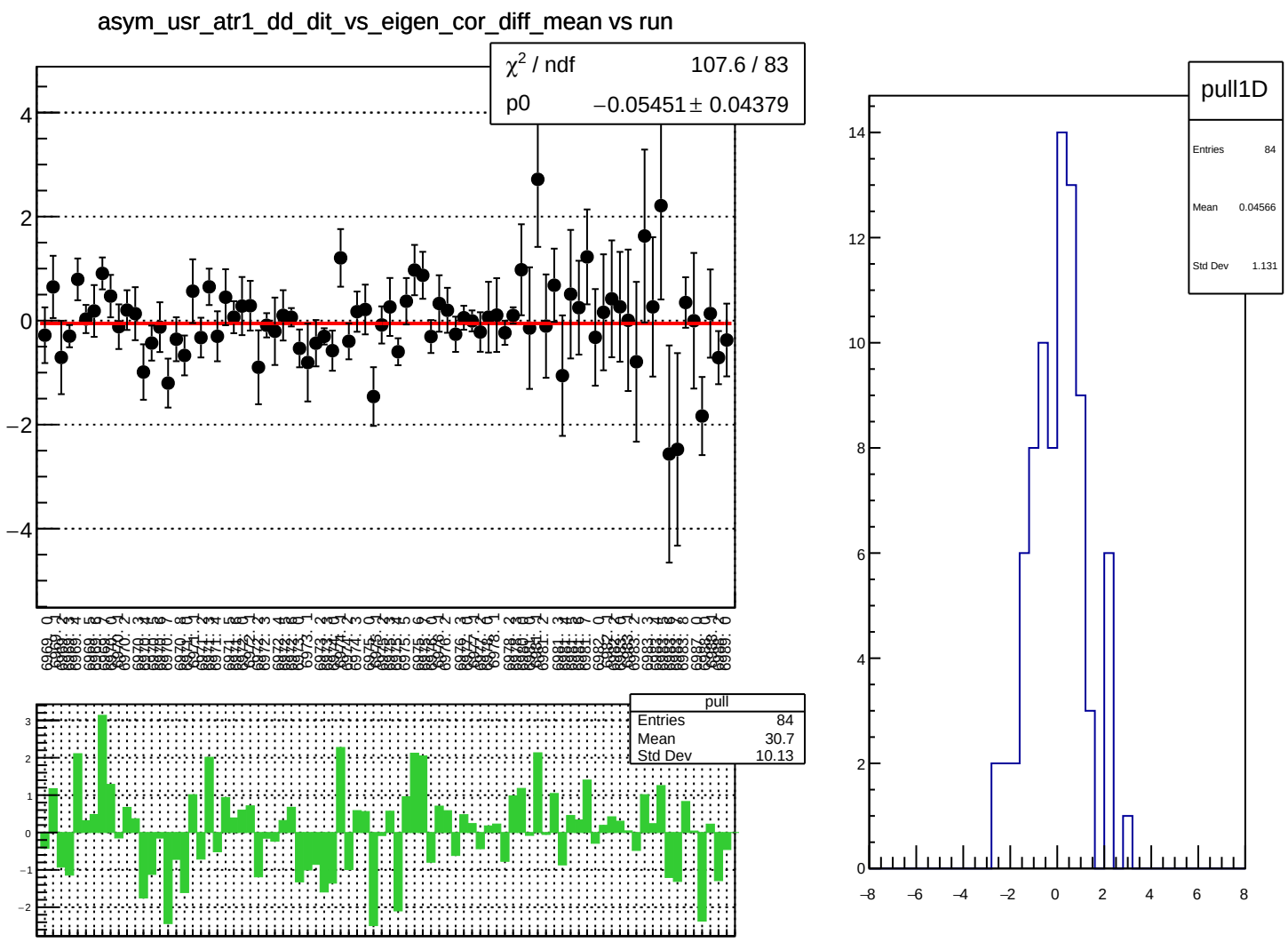

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.61 / 83
p0 9.747e−14 ± 4.693e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 84
Mean 50.92
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.0697
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

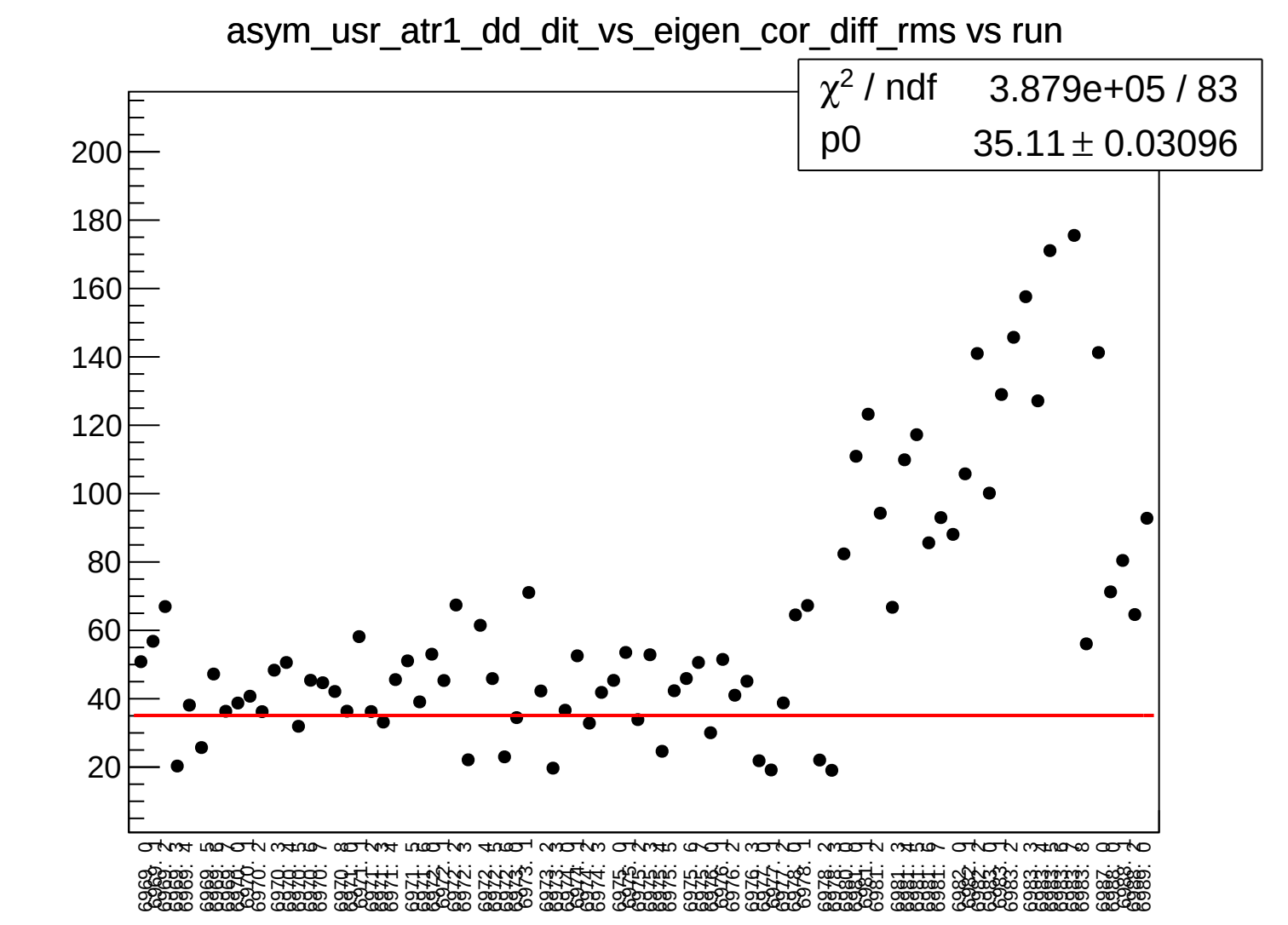

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.135e+06 / 83
p0 2.436e−11 ± 3.318e−14
1
0.8
0.6
0.4
0.2
0

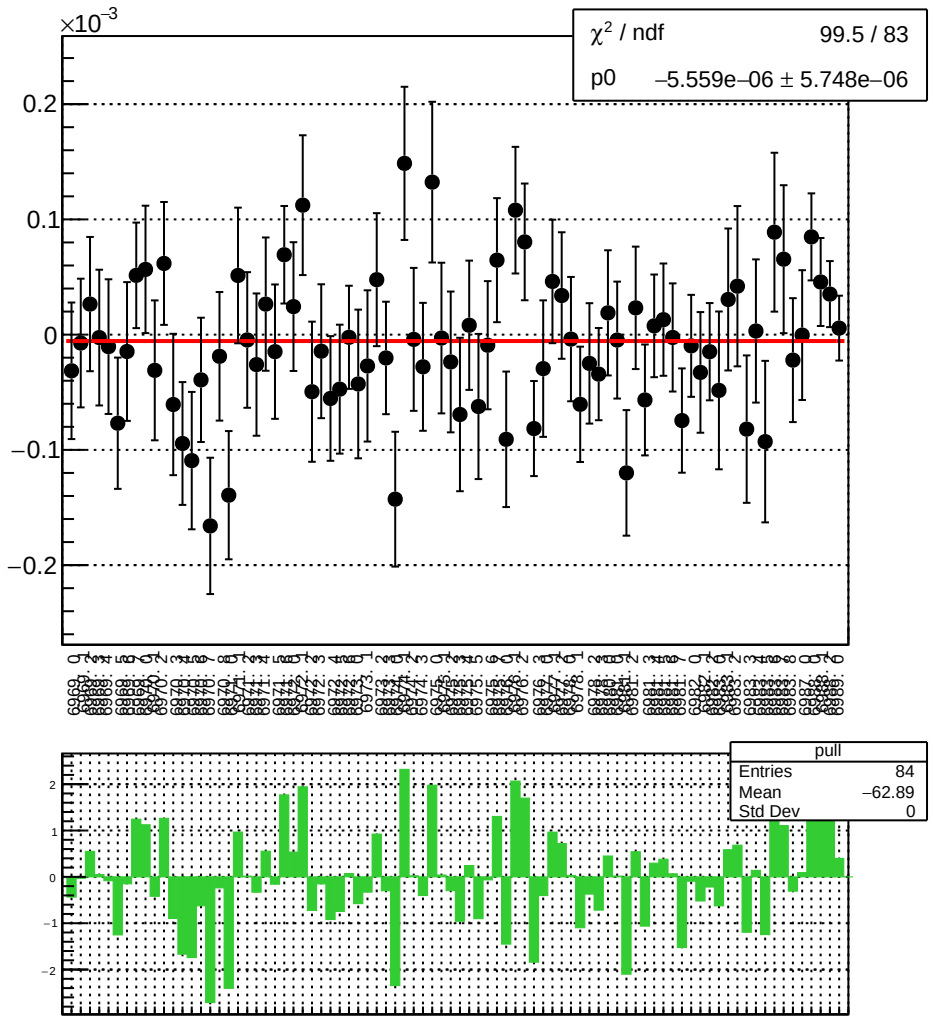

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 83
p0 −0.05451 ± 0.04379
pull
Entries 84
Mean 30.7
Std Dev 10.13

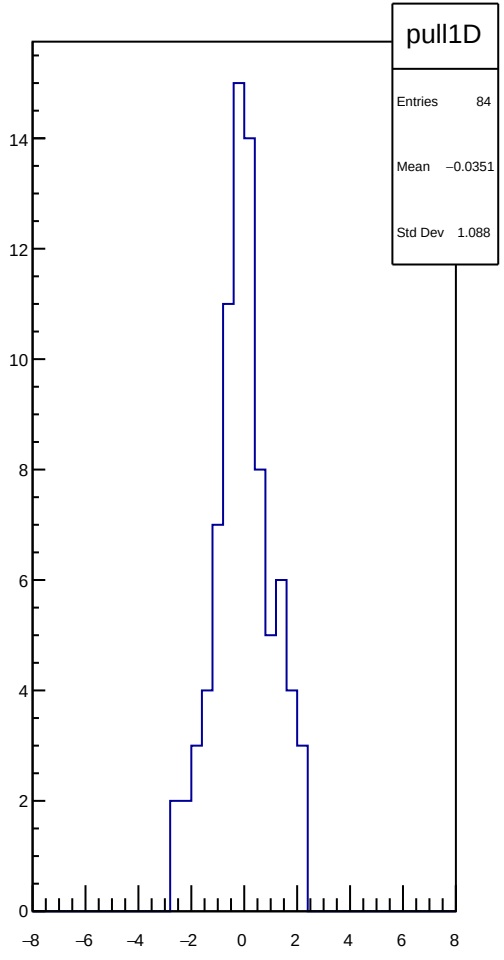

pull1D
Entries 84
Mean 0.04566
Std Dev 1.131

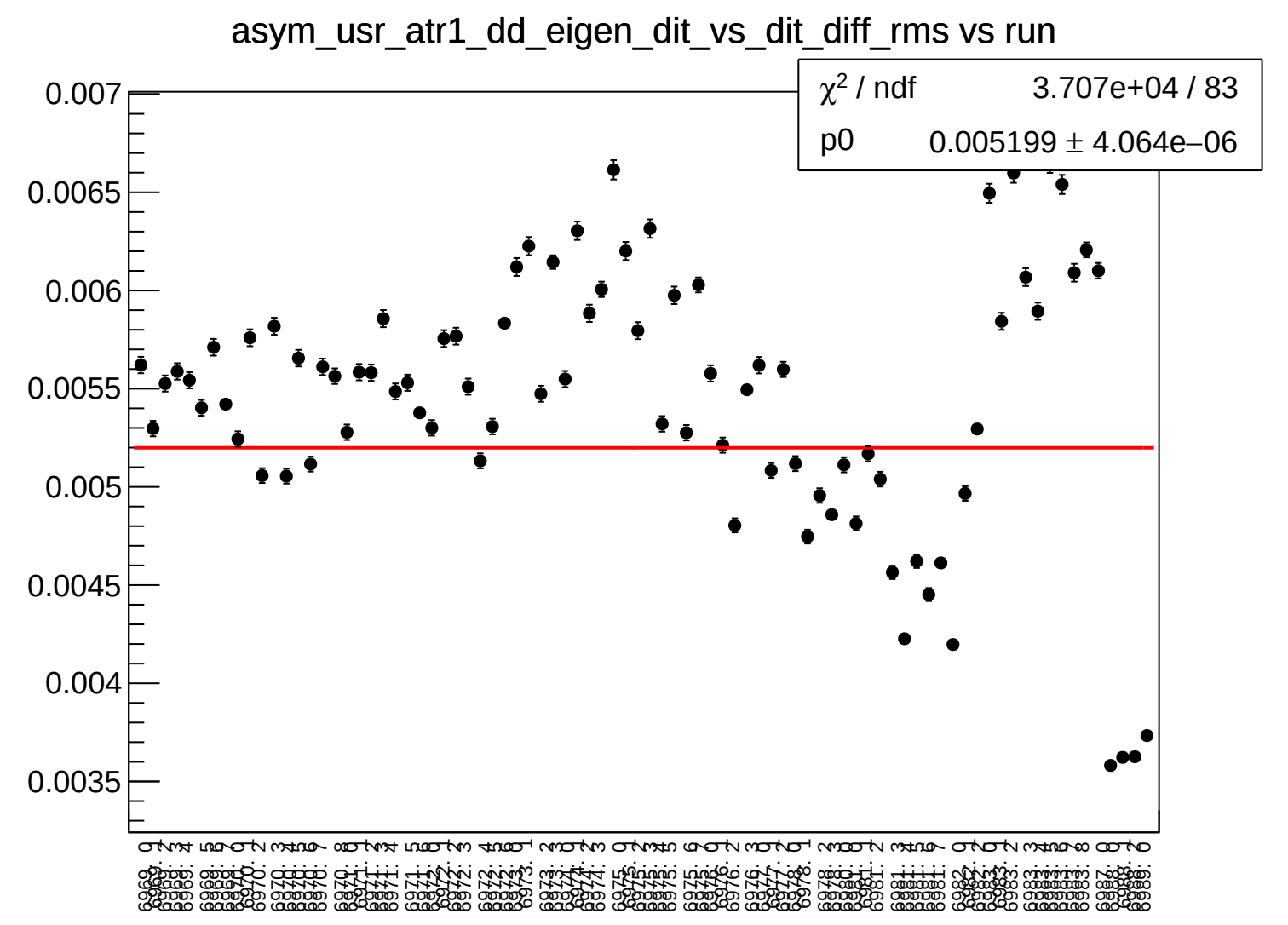

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.879e+05 / 83
p0 35.11 ± 0.03096
200
180
160
140
120
100
80
60
40
20

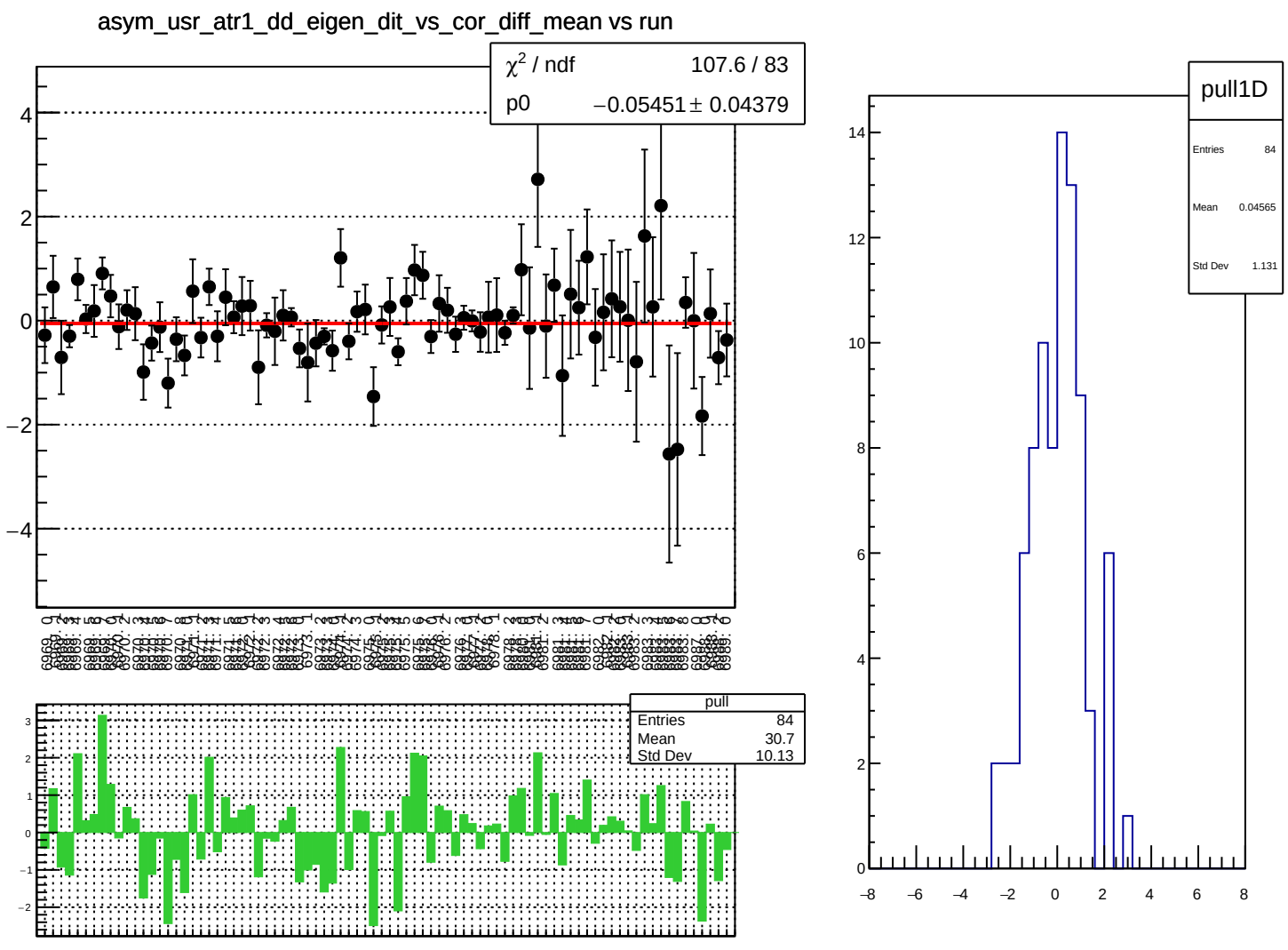

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 83
p0 −0.05451 ± 0.04379
pull
Entries 84
Mean 30.7
Std Dev 10.13
pull1D
Entries 84
Mean 0.04566
Std Dev 1.131

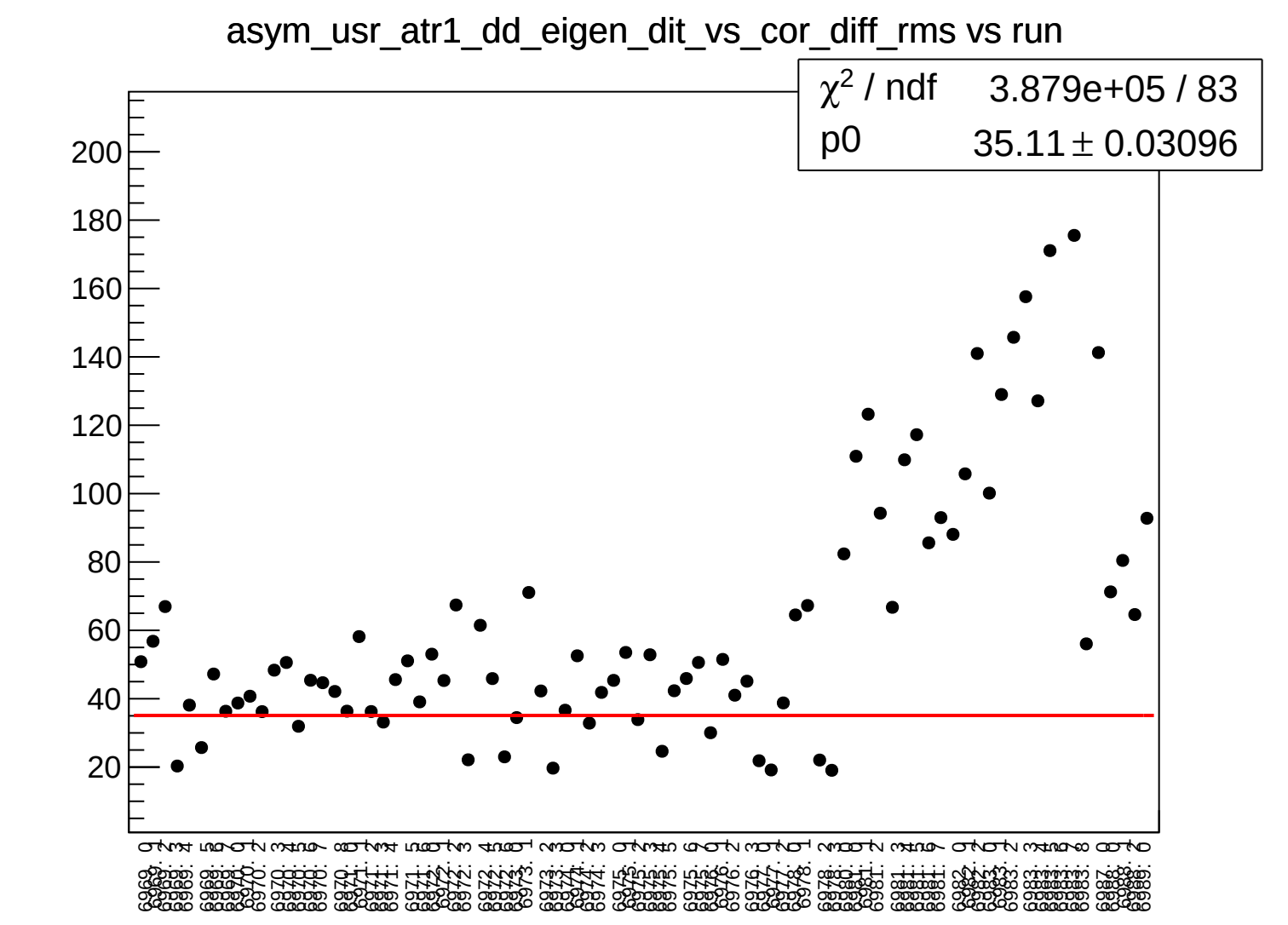

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.879e+05 / 83
p0 35.11 ± 0.03096
200
180
160
140
120
100
80
60
40
20

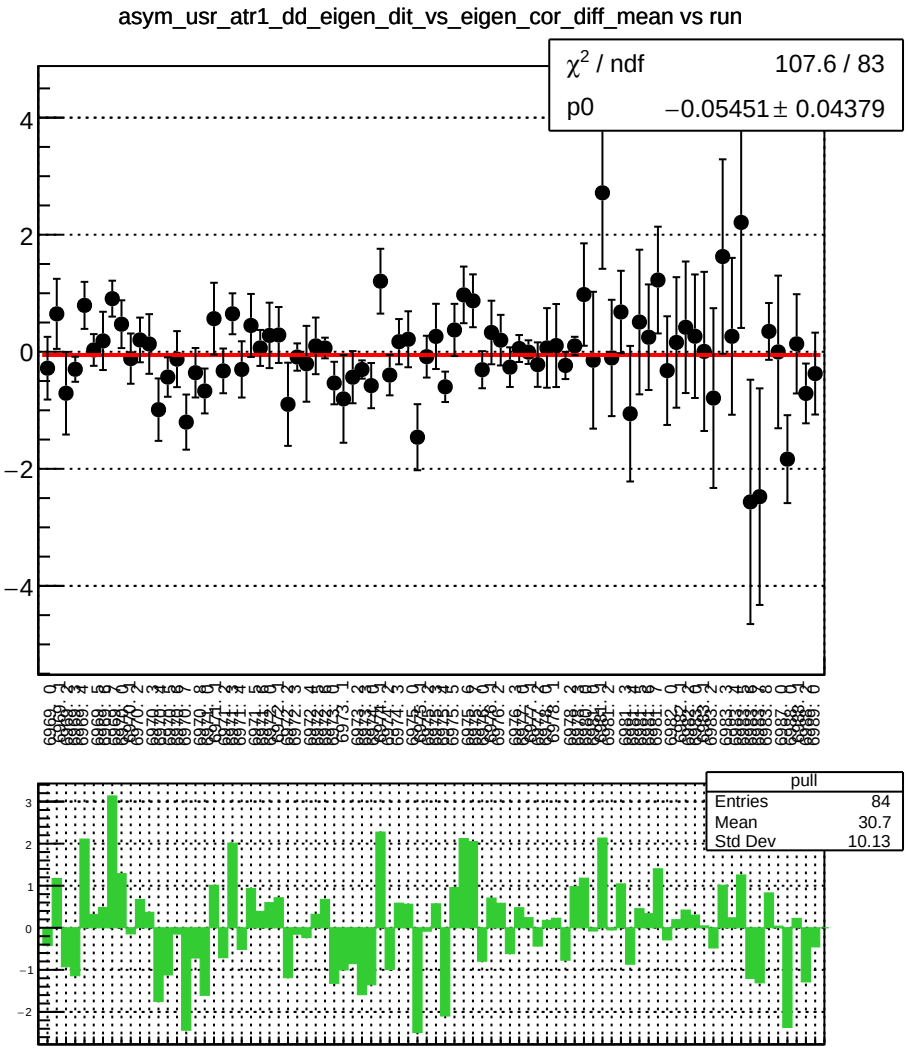

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.5 / 83
p0 −5.559e−06 ± 5.748e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 84
Mean −62.89
Std Dev 0
2
1
0
−1
−2

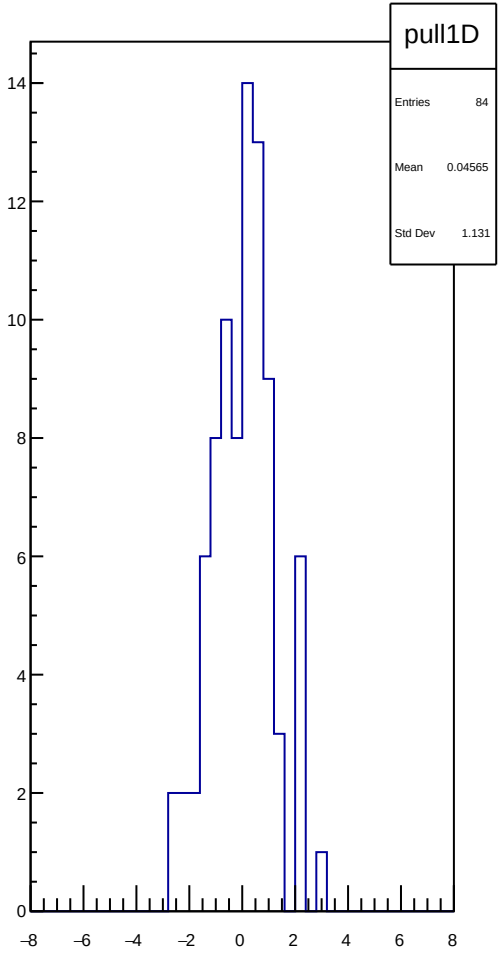

pull1D
Entries 84
Mean −0.0351
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

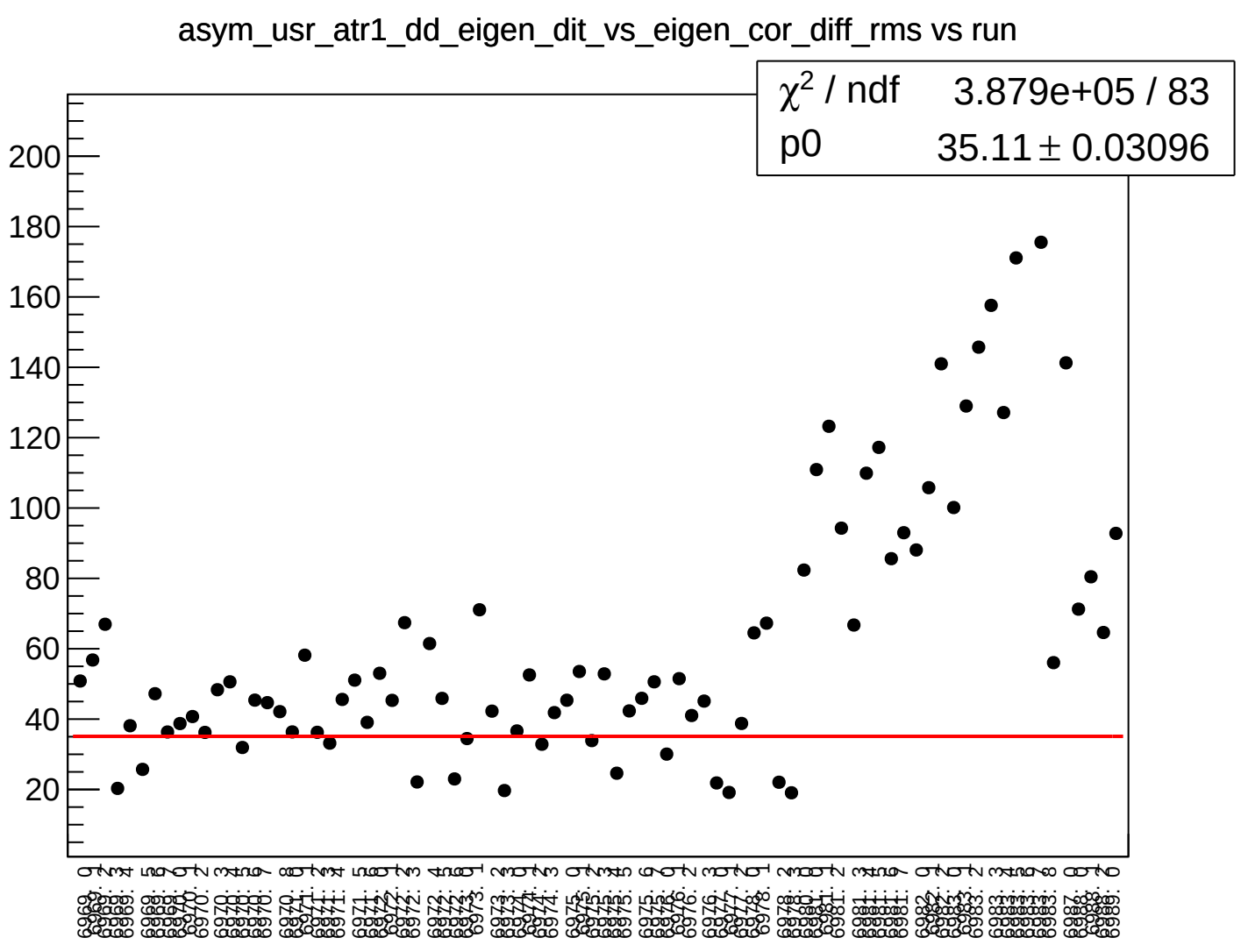

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.707e+04 / 83
p0 0.005199 ± 4.064e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

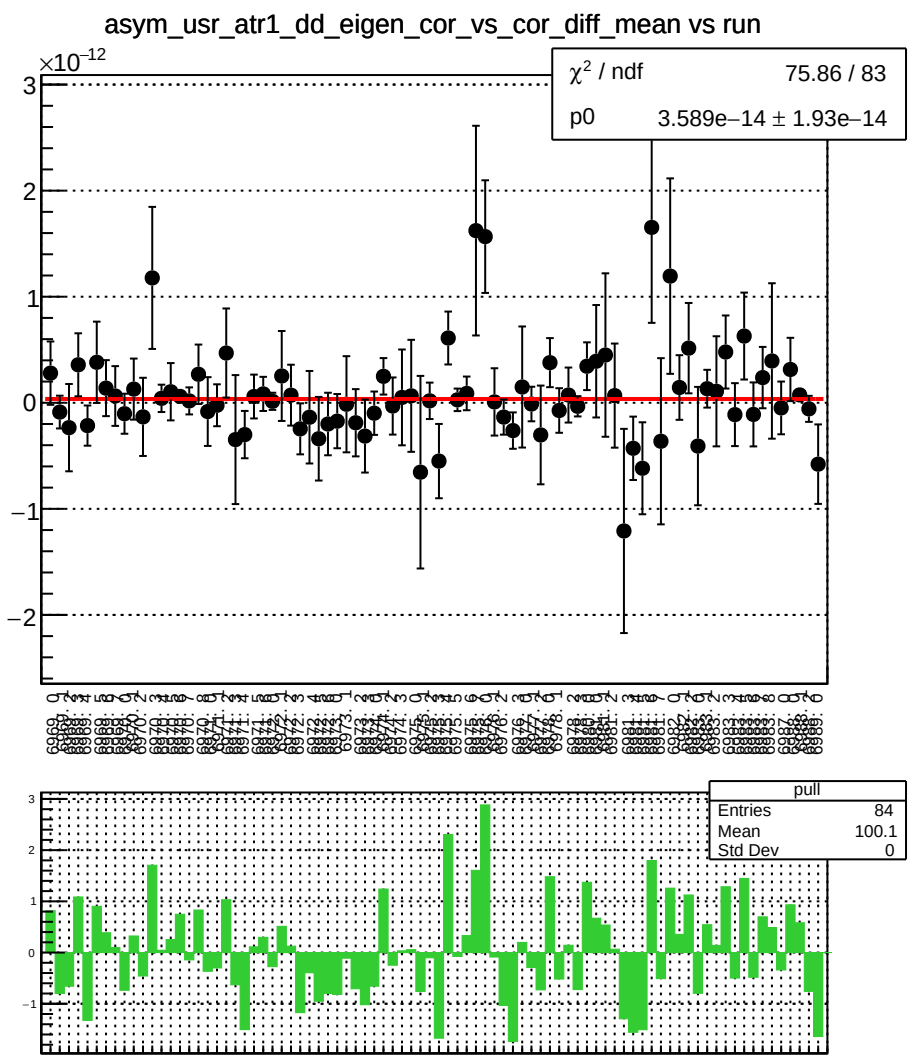

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 83
p0 −0.05451 ± 0.04379
pull
Entries 84
Mean 30.7
Std Dev 10.13
pull1D
Entries 84
Mean 0.04565
Std Dev 1.131

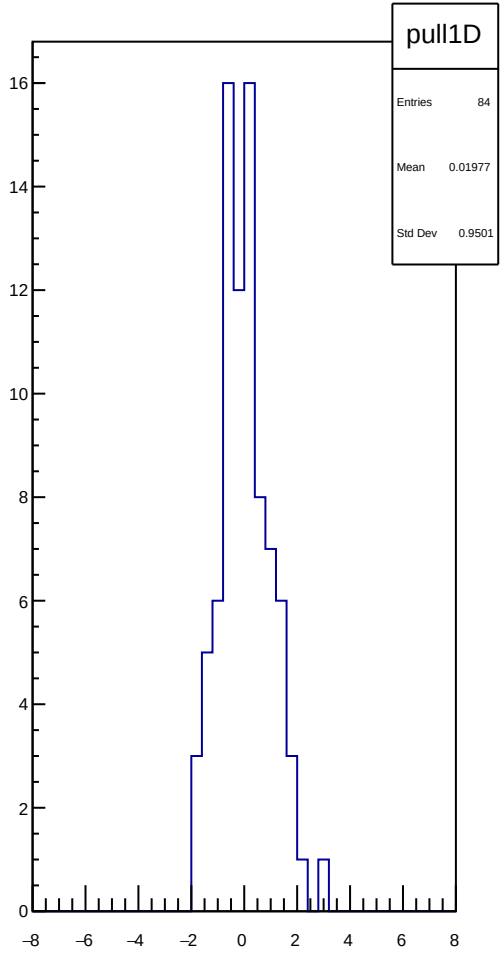

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.879e+05 / 83
p0 35.11 ± 0.03096
200
180
160
140
120
100
80
60
40
20

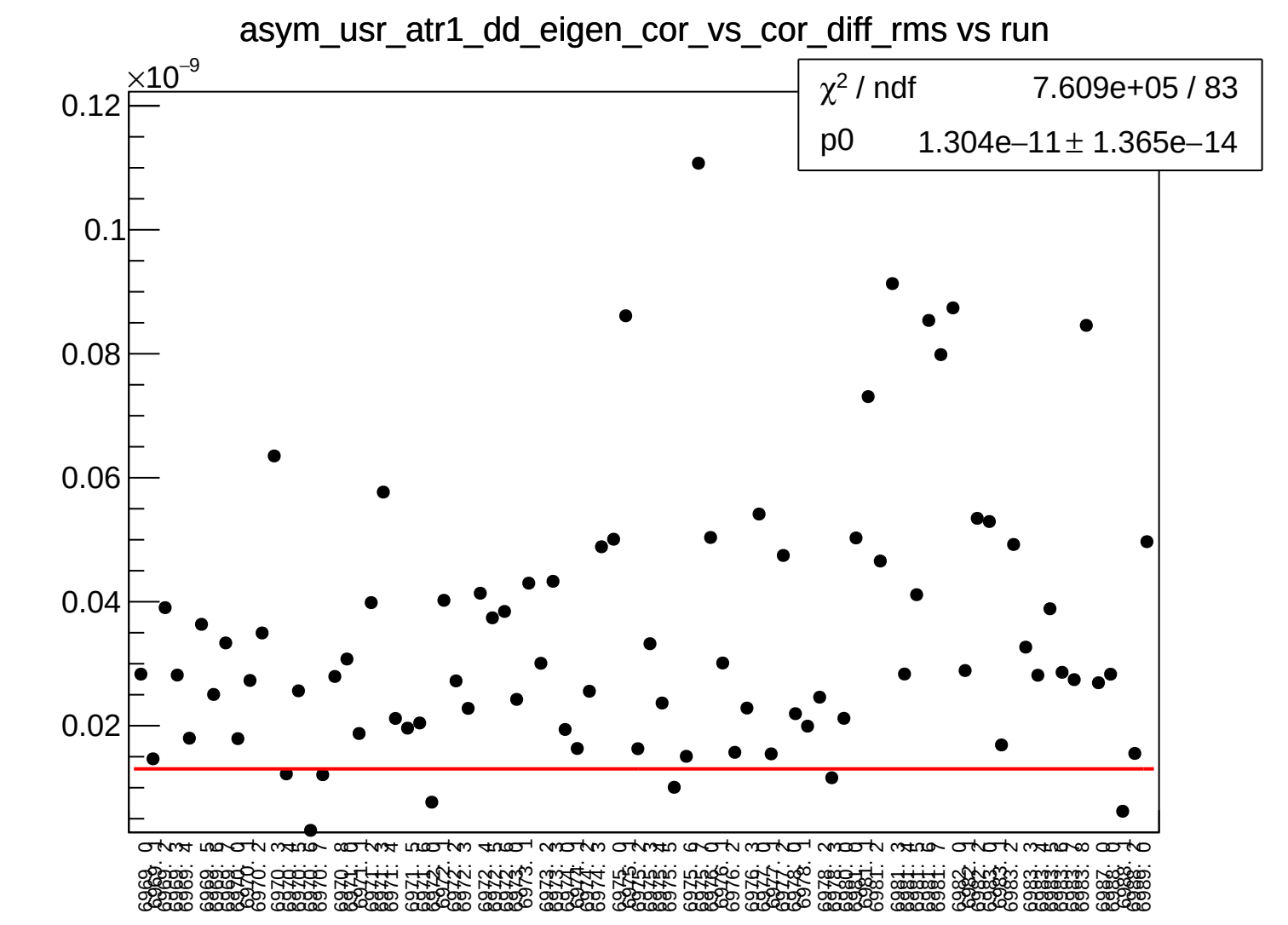

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 83
p0 −0.05451 ± 0.04379
pull
Entries 84
Mean 30.7
Std Dev 10.13

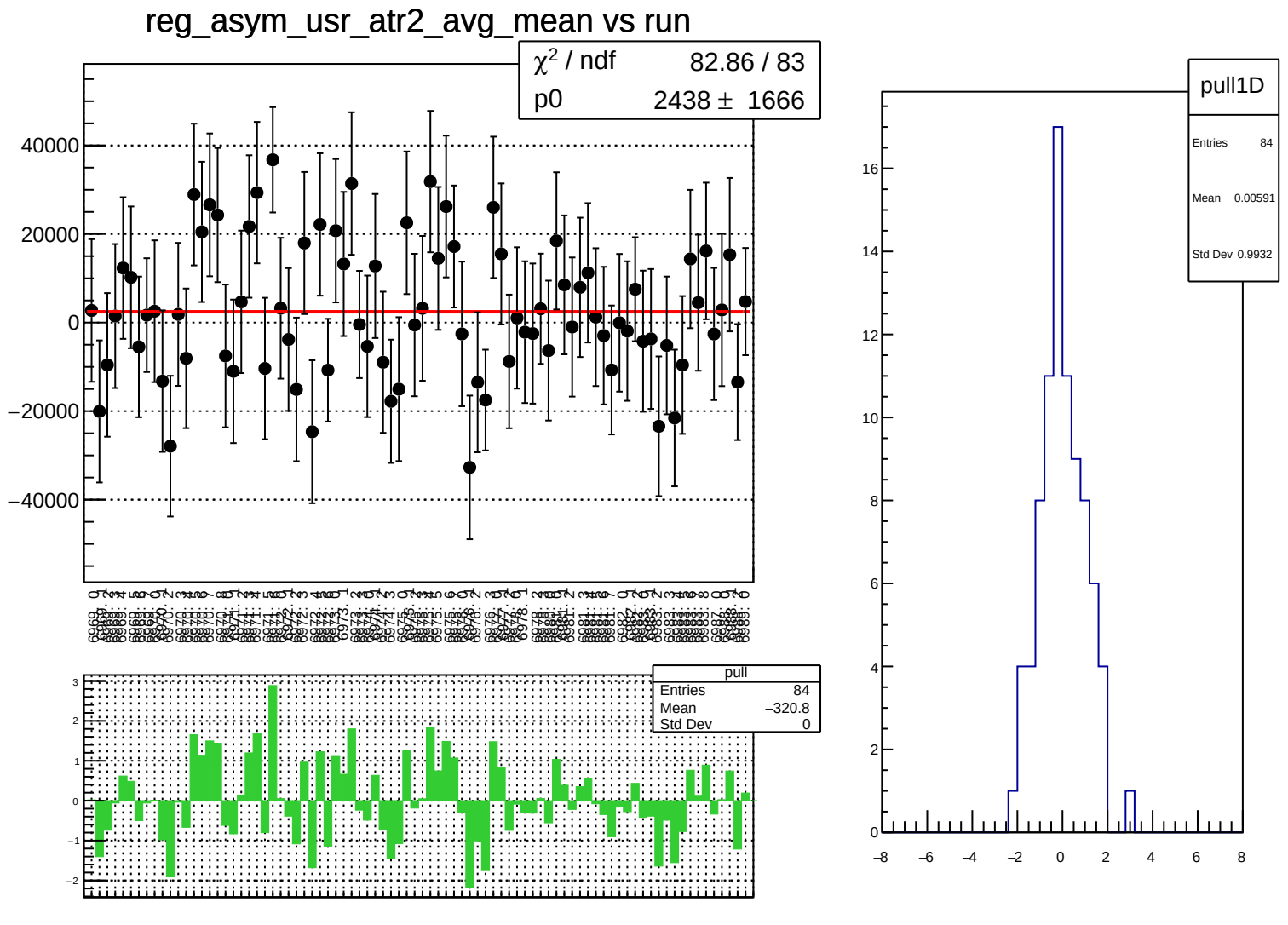

pull1D
Entries 84
Mean 0.04565
Std Dev 1.131

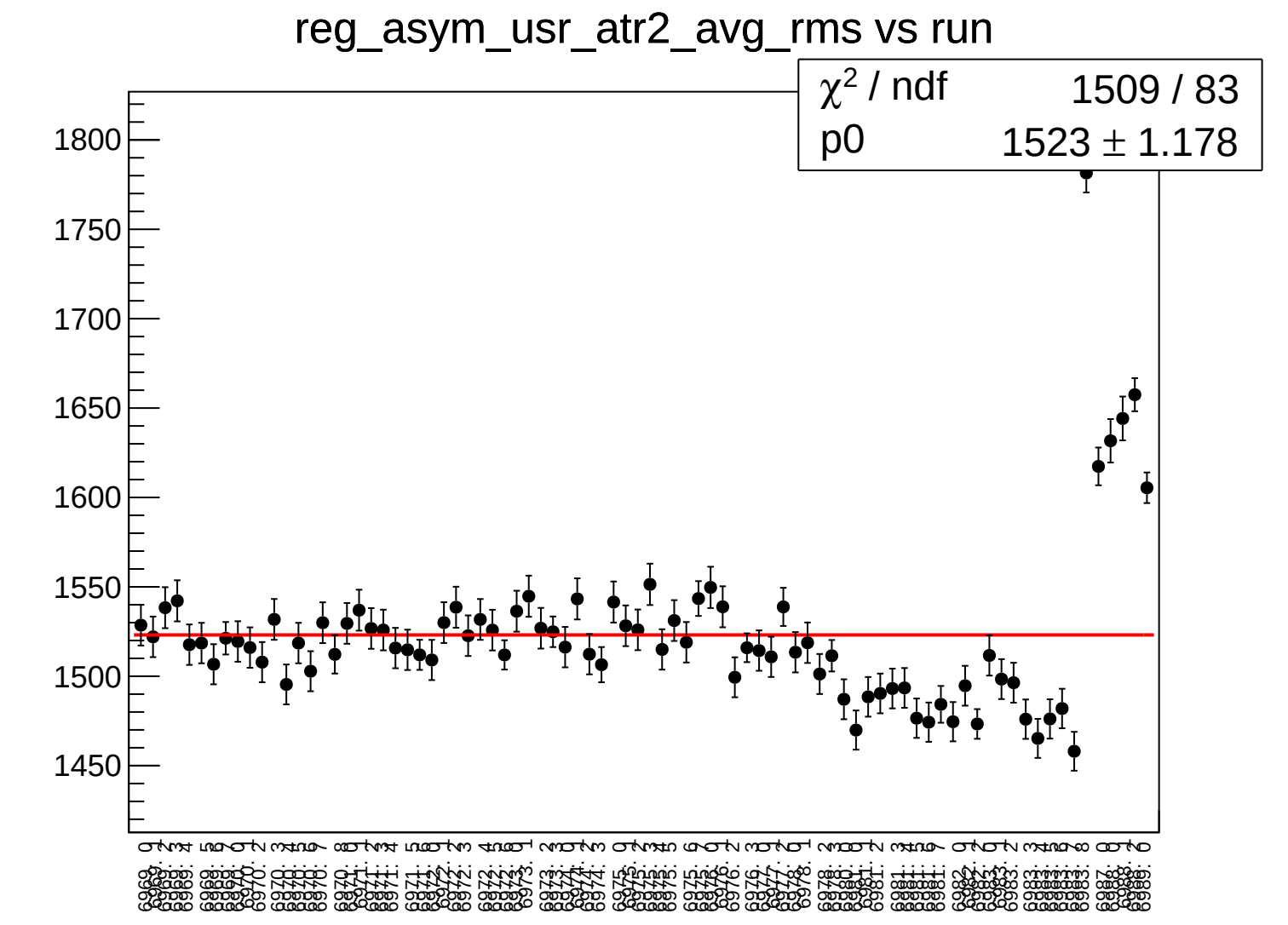

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.879e+05 / 83
p0 35.11 ± 0.03096
200
180
160
140
120
100
80
60
40
20

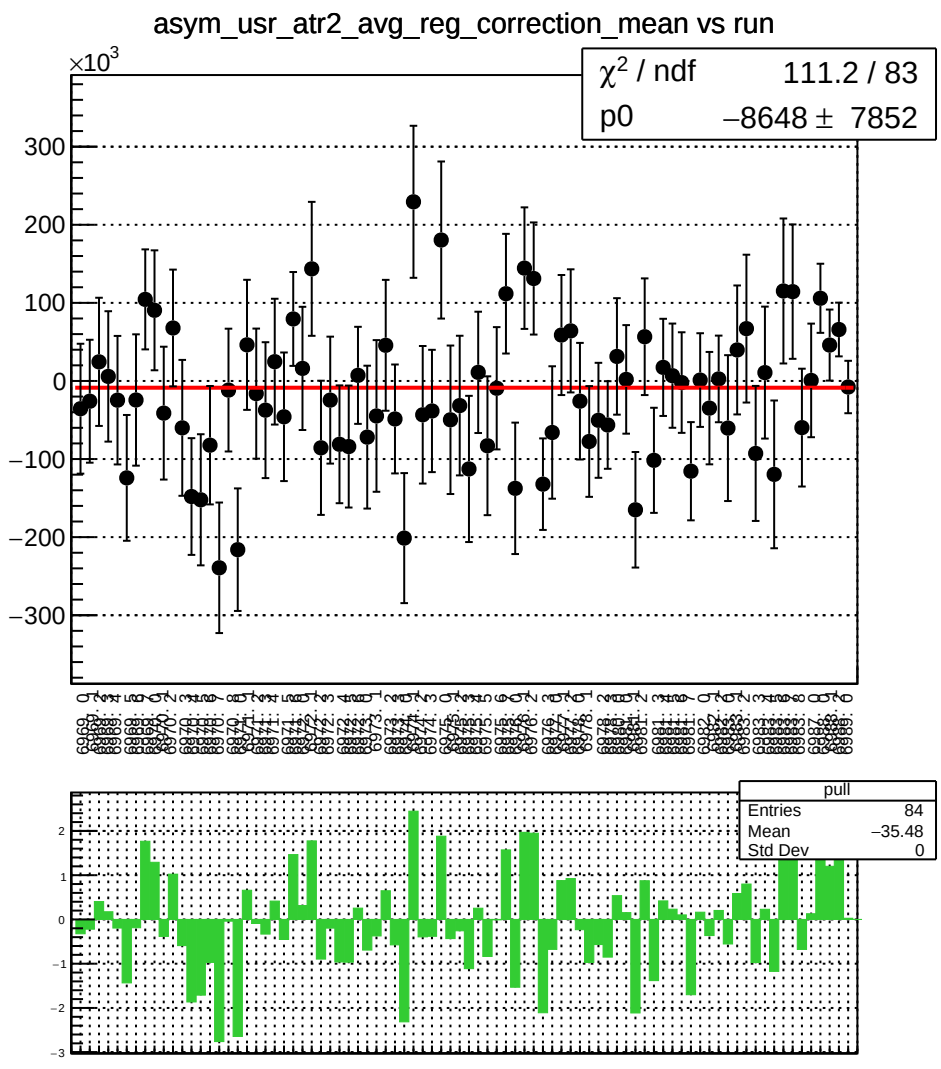

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.86 / 83
p0 3.589e−14 ± 1.93e−14
pull
Entries 84
Mean 100.1
Std Dev 0

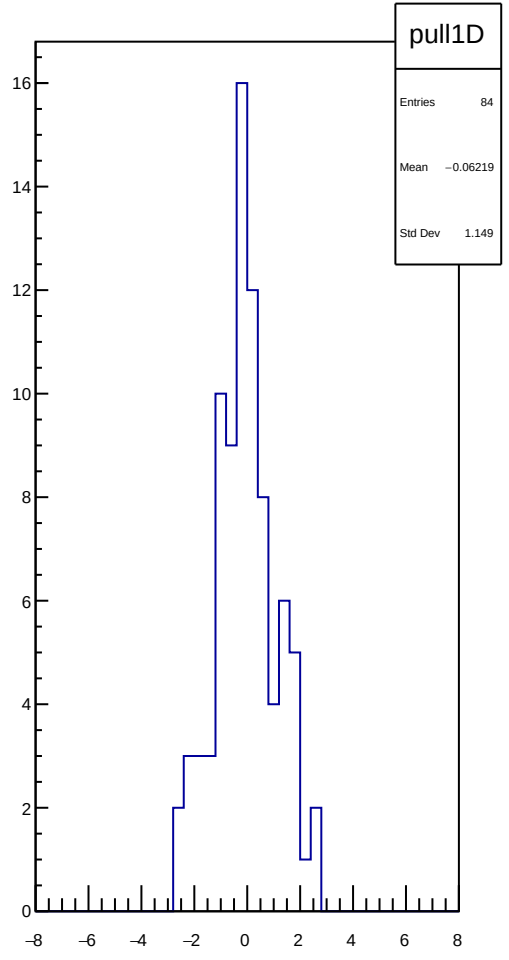

pull1D
Entries 84
Mean 0.01977
Std Dev 0.9501

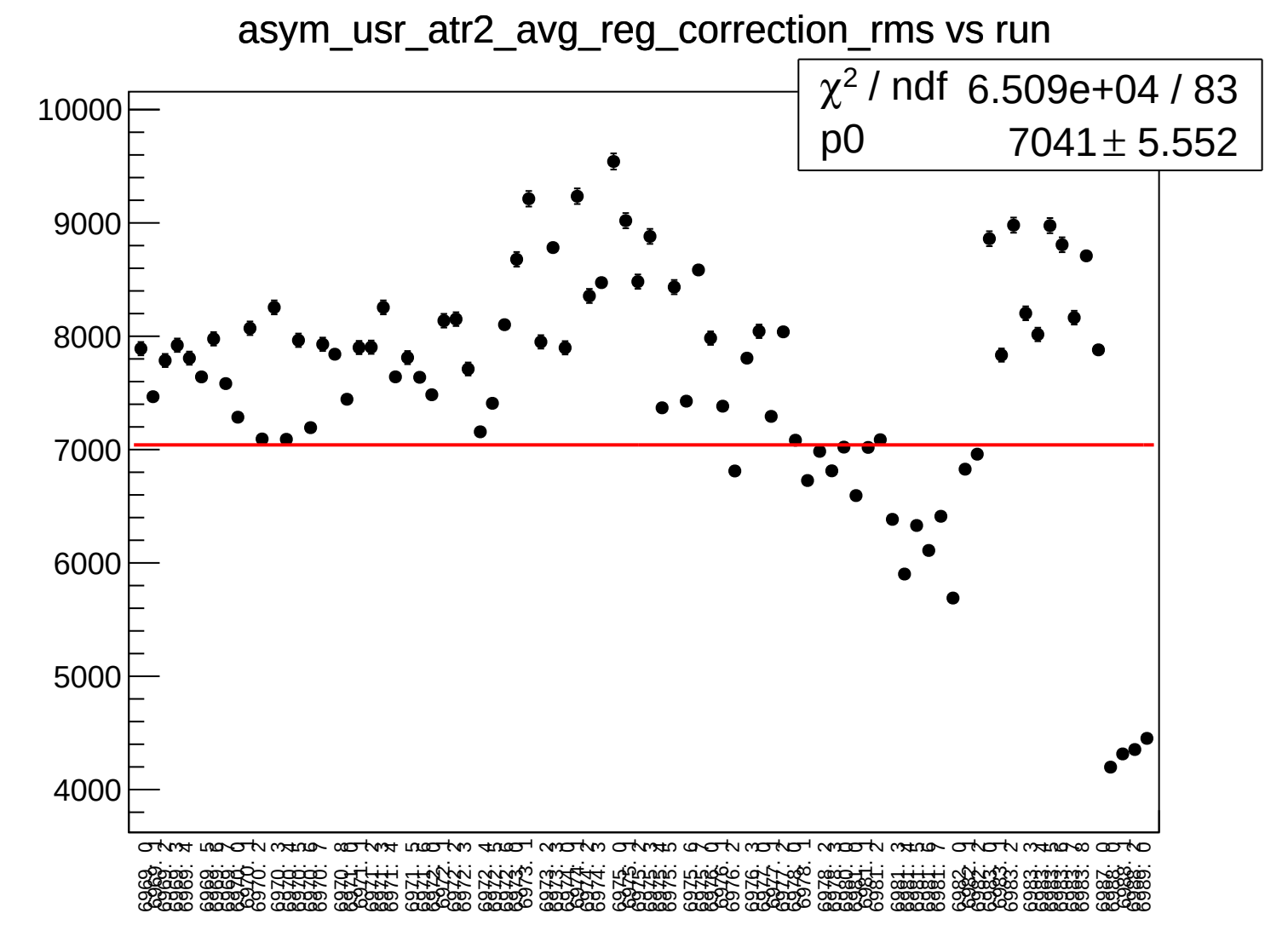

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 7.609e+05 / 83
p0 1.304e−11 ± 1.365e−14

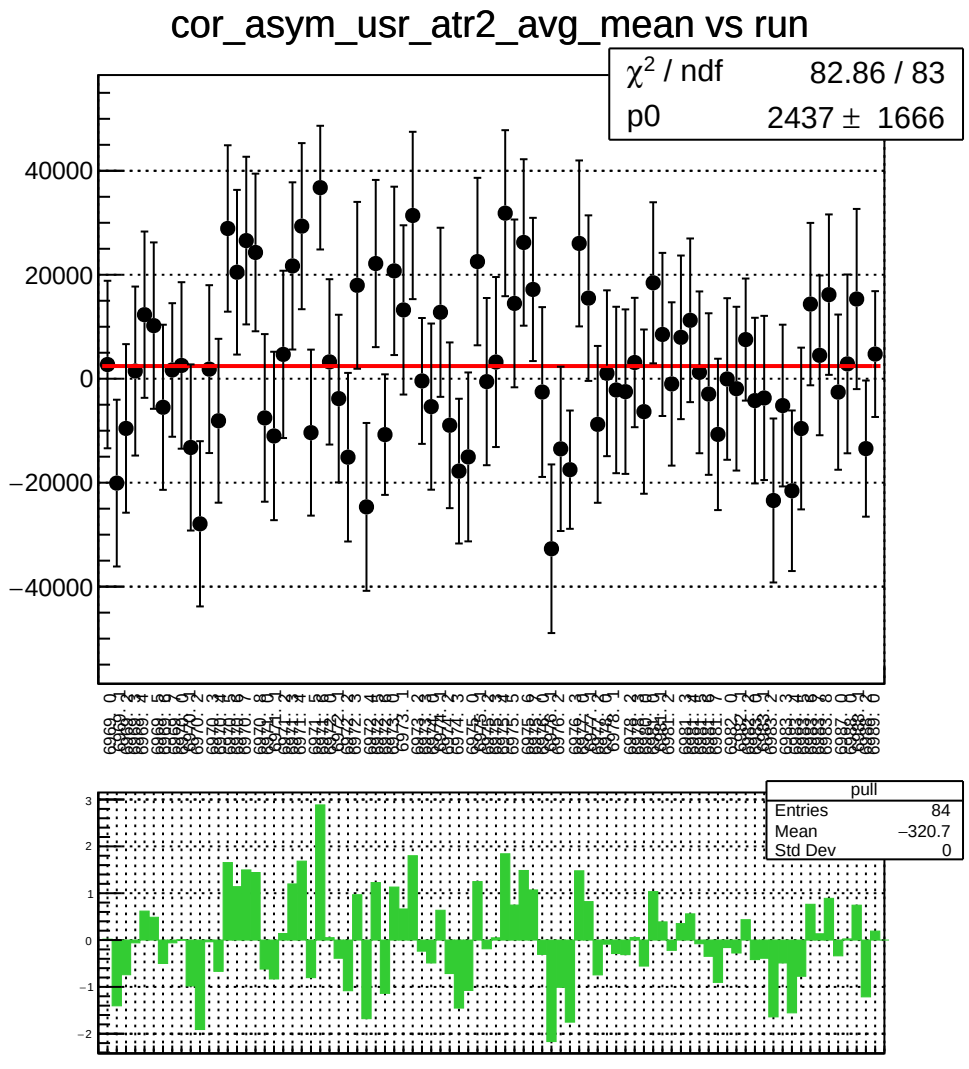

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 82.86 / 83
p0 2438 ± 1666
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −320.8
Std Dev 0
pull1D
Entries 84
Mean 0.00591
Std Dev 0.9932

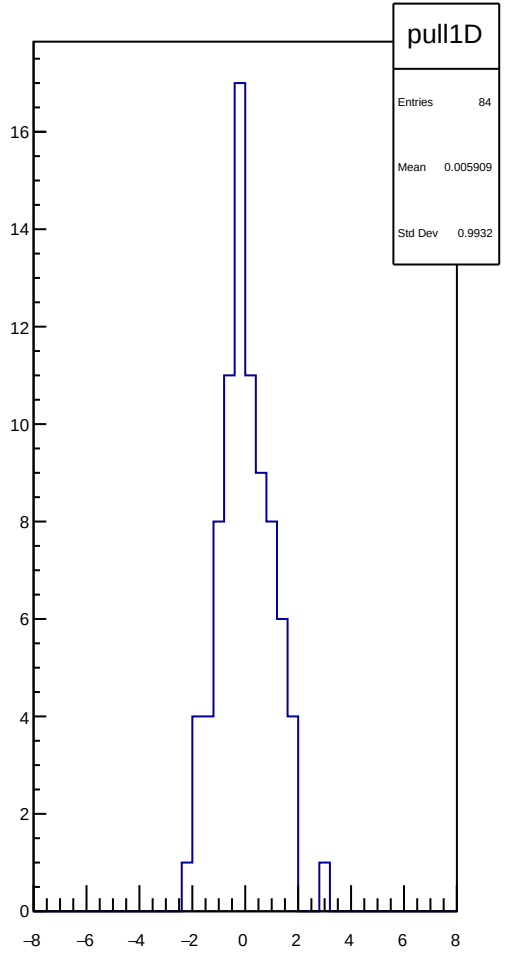

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 1509 / 83
p0 1523 ± 1.178
1800
1750
1700
1650
1600
1550
1500
1450

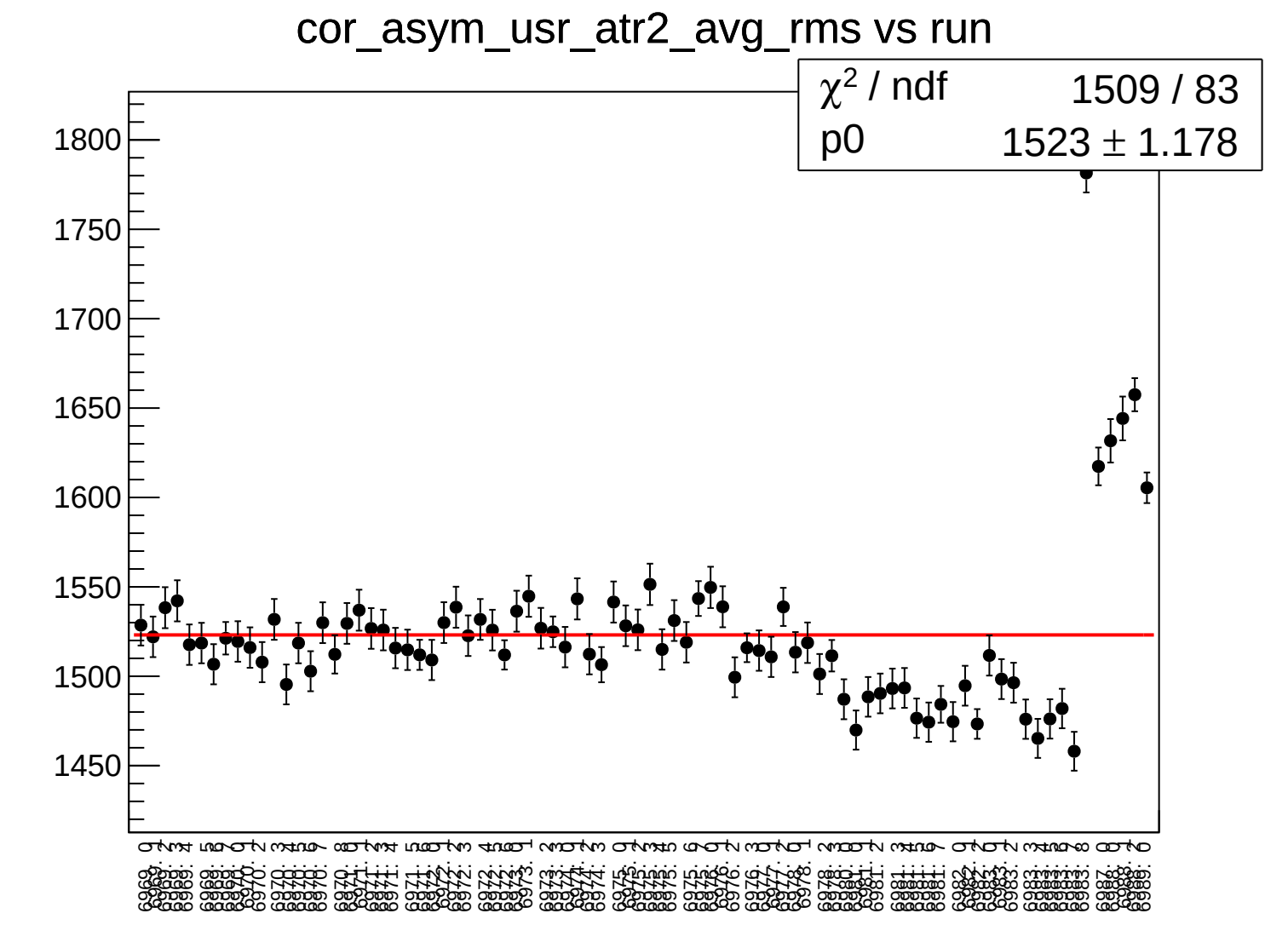

asym_usr_atr2_avg_reg_correction_mean vs run
χ² / ndf 111.2 / 83
p0 −8648 ± 7852
×10³
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −35.48
Std Dev 0
2
1
0
−1
−2
−3

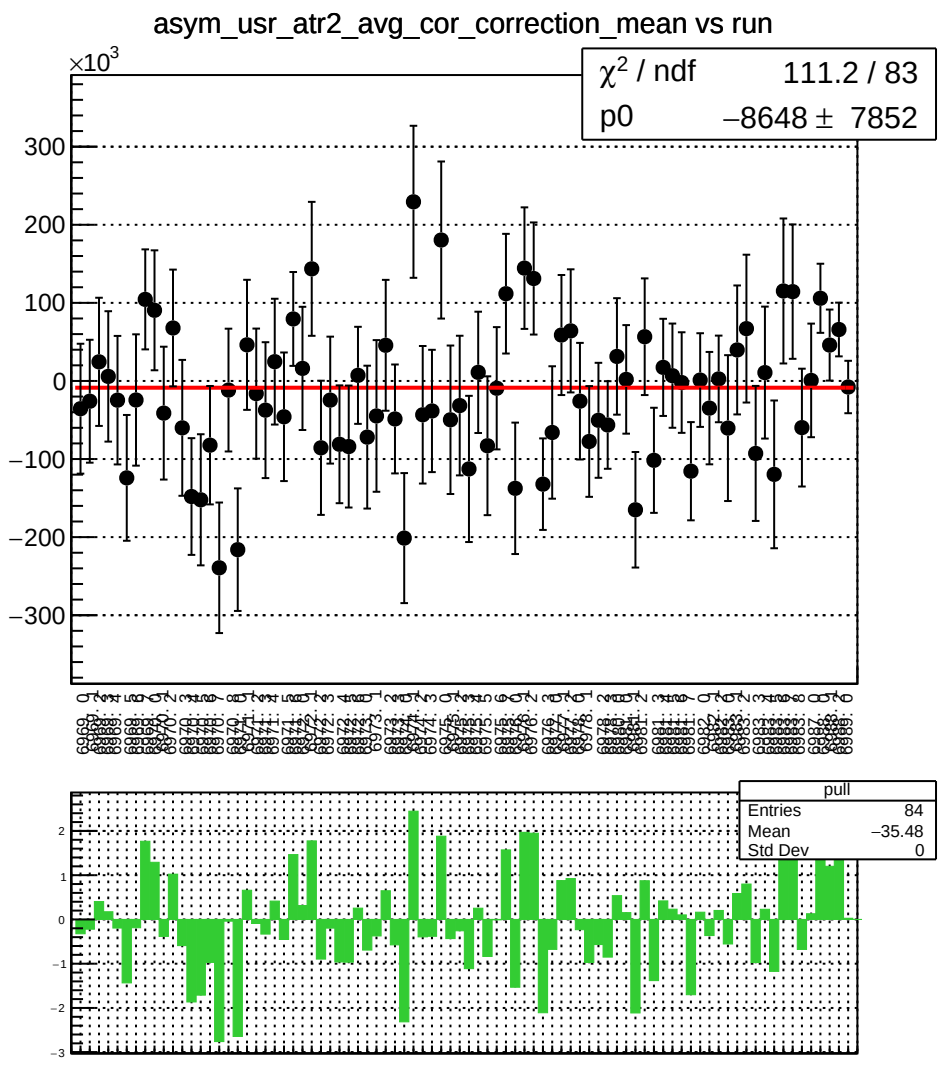

pull1D
Entries 84
Mean −0.06219
Std Dev 1.149
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

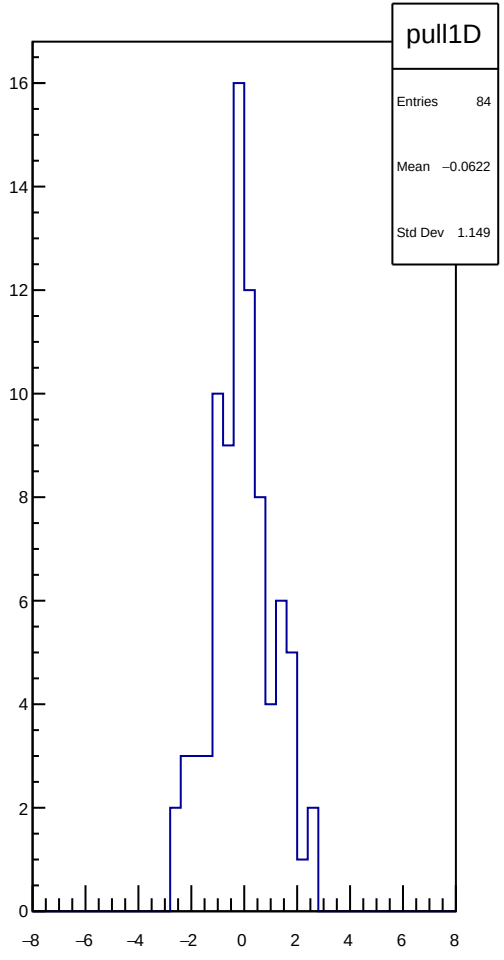

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 6.509e+04 / 83
p0 7041 ± 5.552
10000
9000
8000
7000
6000
5000
4000

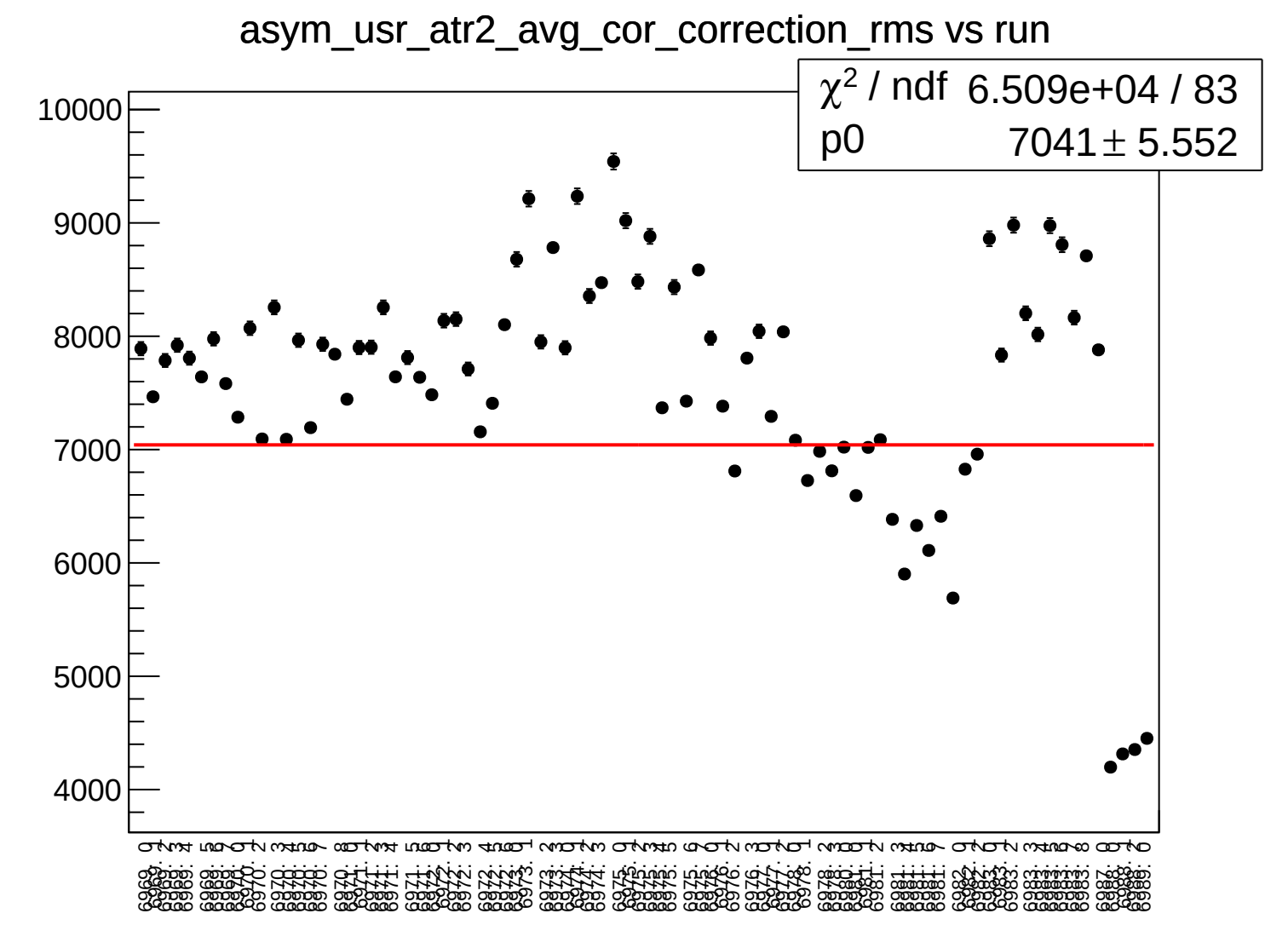

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 82.86 / 83
p0 2437 ± 1666
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −320.7
Std Dev 0
3
2
1
0
−1
−2

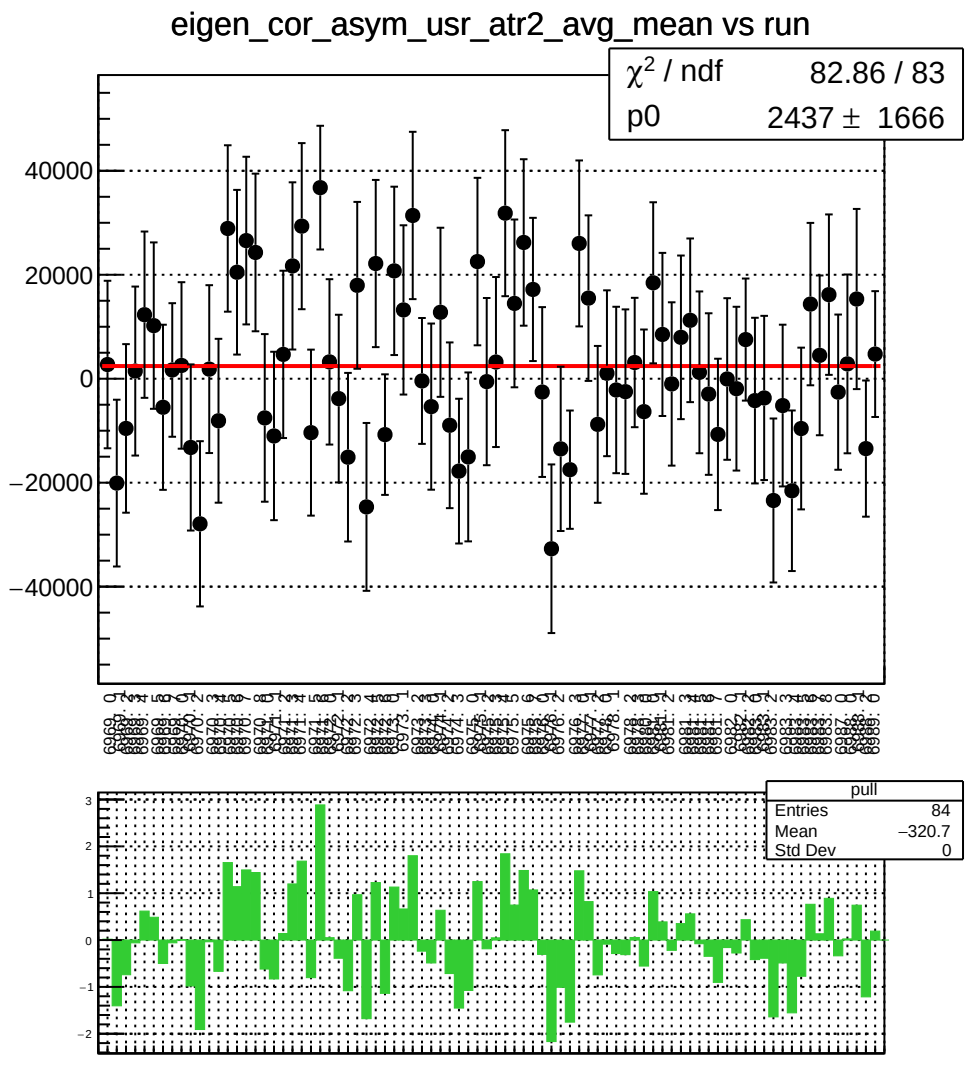

pull1D
Entries 84
Mean 0.005909
Std Dev 0.9932
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

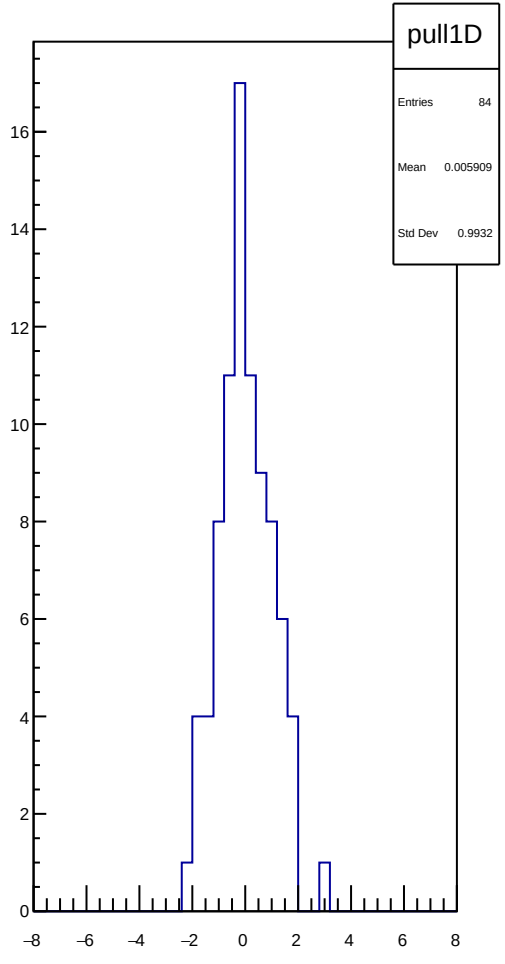

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1509 / 83
p0 1523 ± 1.178
1800
1750
1700
1650
1600
1550
1500
1450

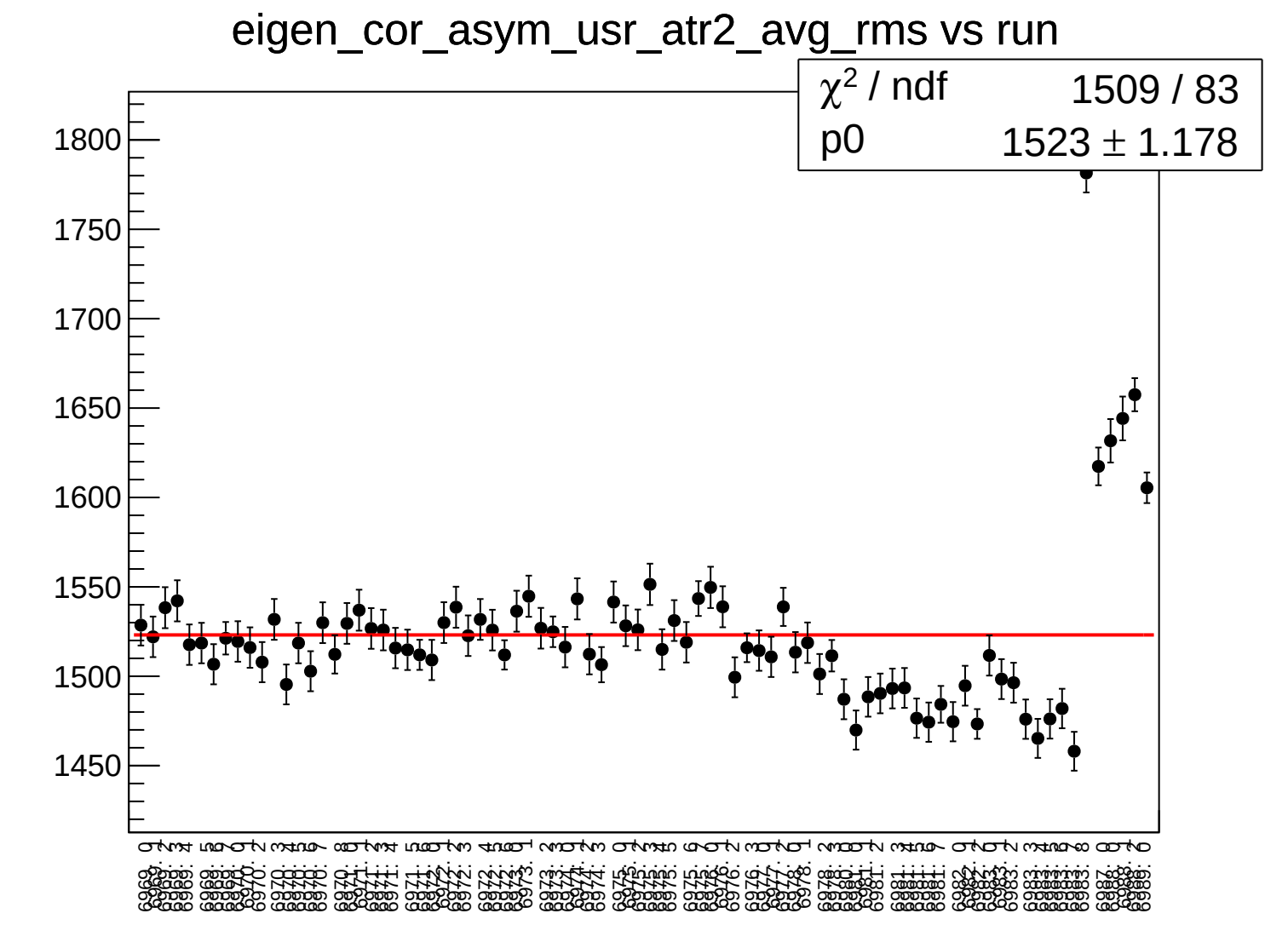

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 111.2 / 83
p0 −8648 ± 7852
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −35.48
Std Dev 0
2
1
0
−1
−2
−3

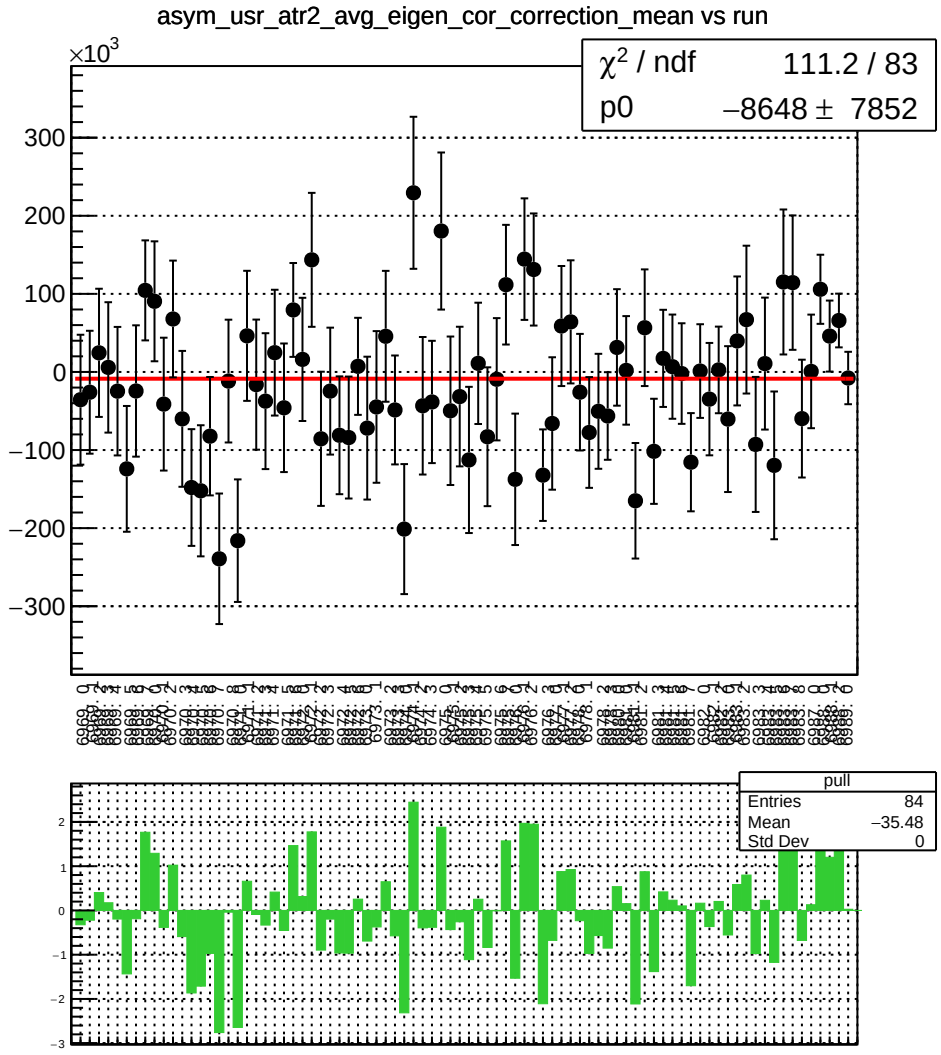

pull1D
Entries 84
Mean −0.0622
Std Dev 1.149
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

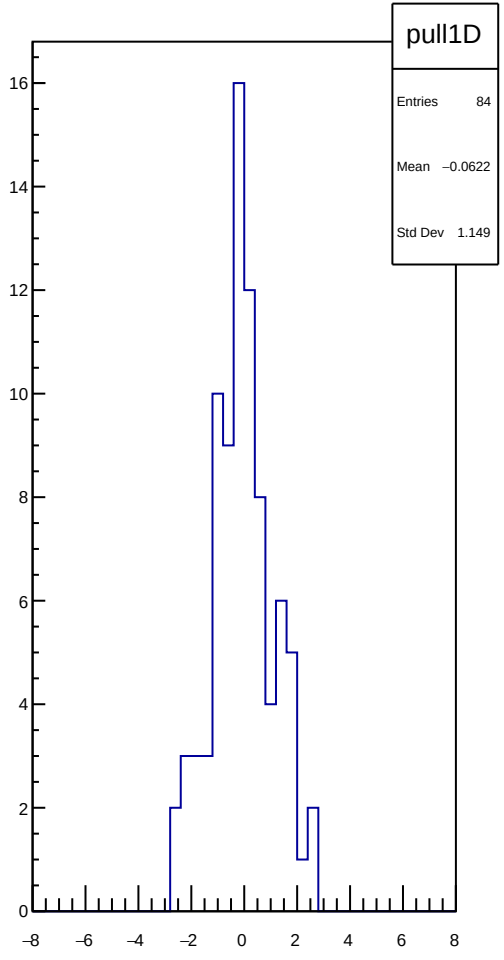

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 6.509e+04 / 83
p0 7041 ± 5.552
10000
9000
8000
7000
6000
5000
4000

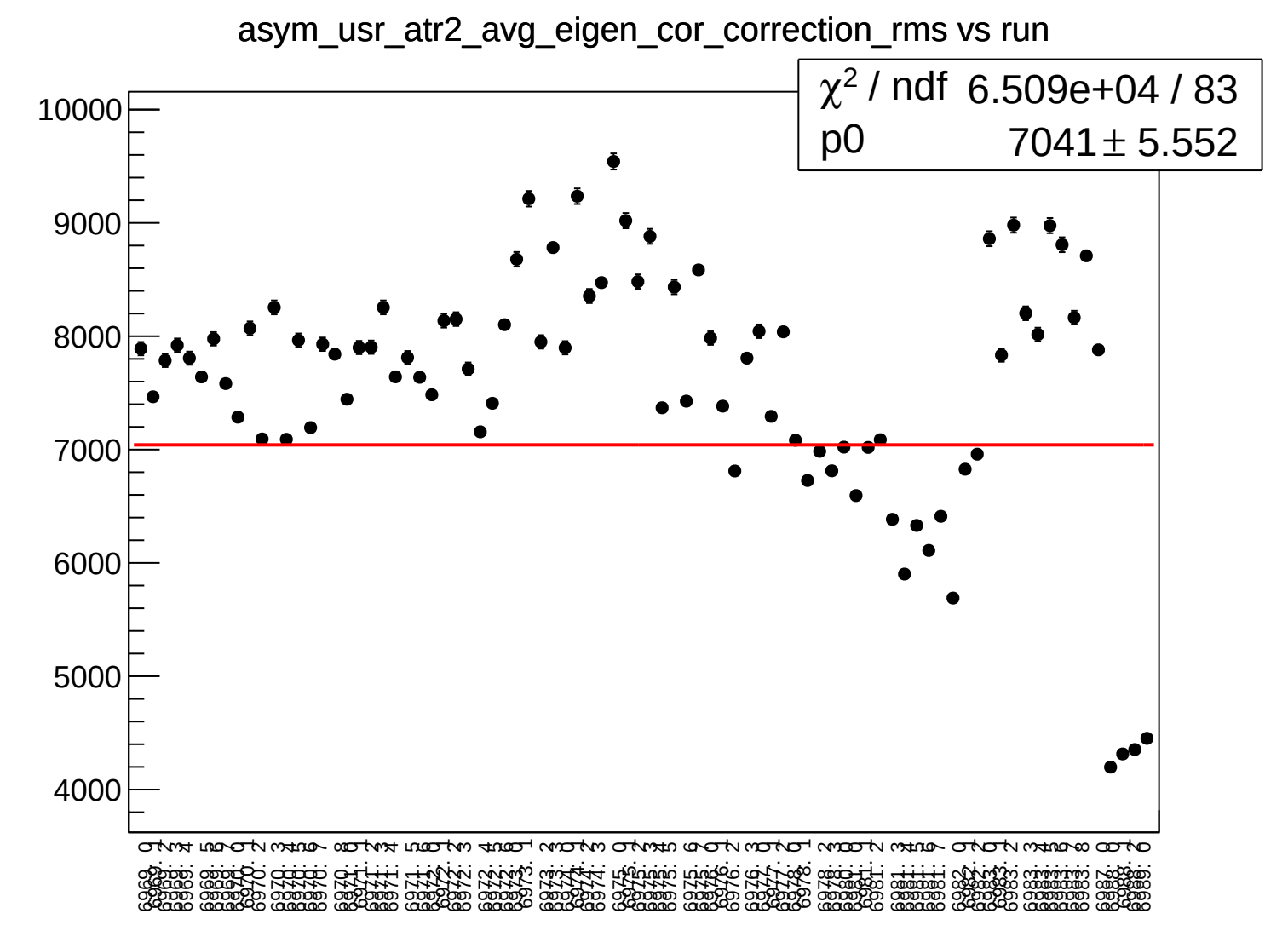

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 82.86 / 83
p0 2437 ± 1666
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −320.7
Std Dev 0
3
2
1
0
−1
−2

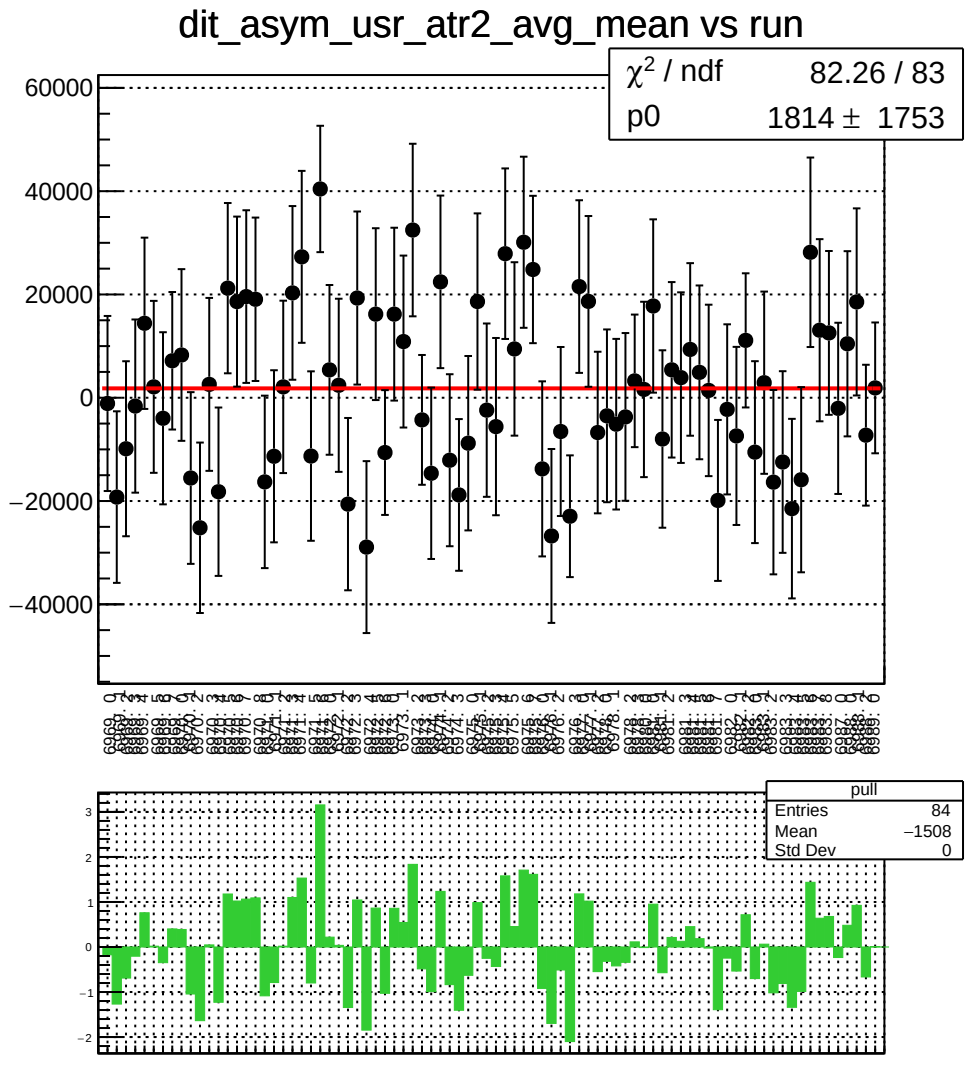

pull1D
Entries 84
Mean 0.005909
Std Dev 0.9932
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

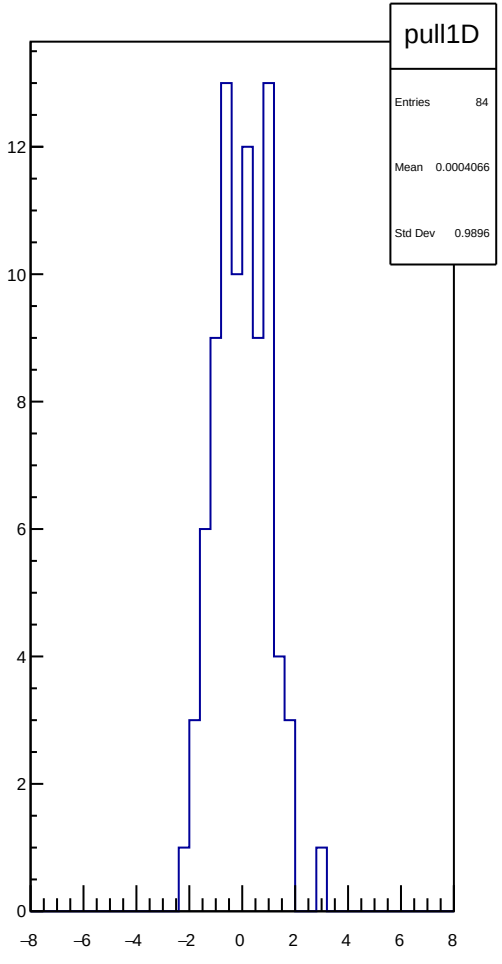

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1509 / 83
p0 1523 ± 1.178
1800
1750
1700
1650
1600
1550
1500
1450

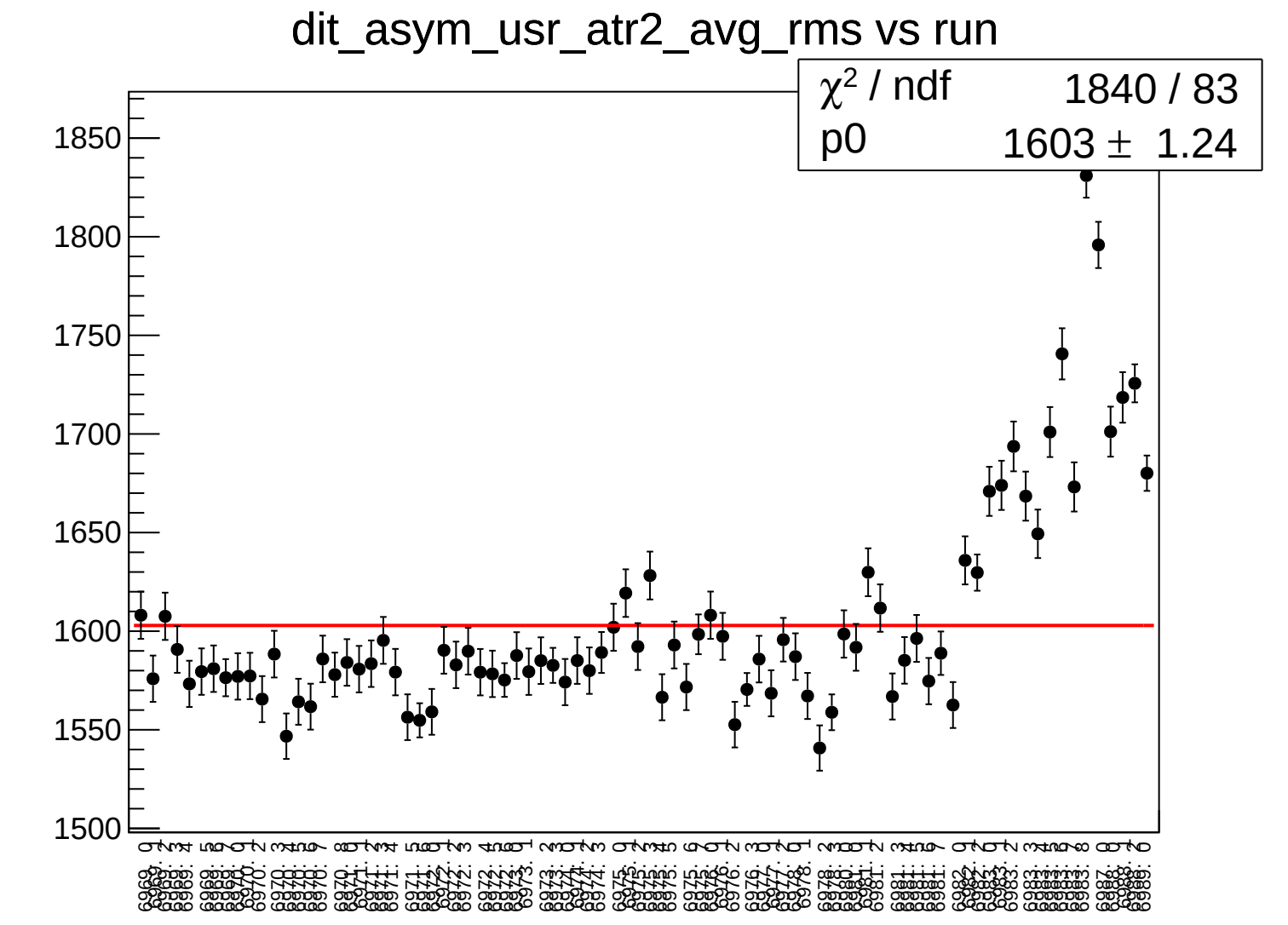

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 111.2 / 83
p0 −8648 ± 7852
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −35.48
Std Dev 0
2
1
0
−1
−2
−3

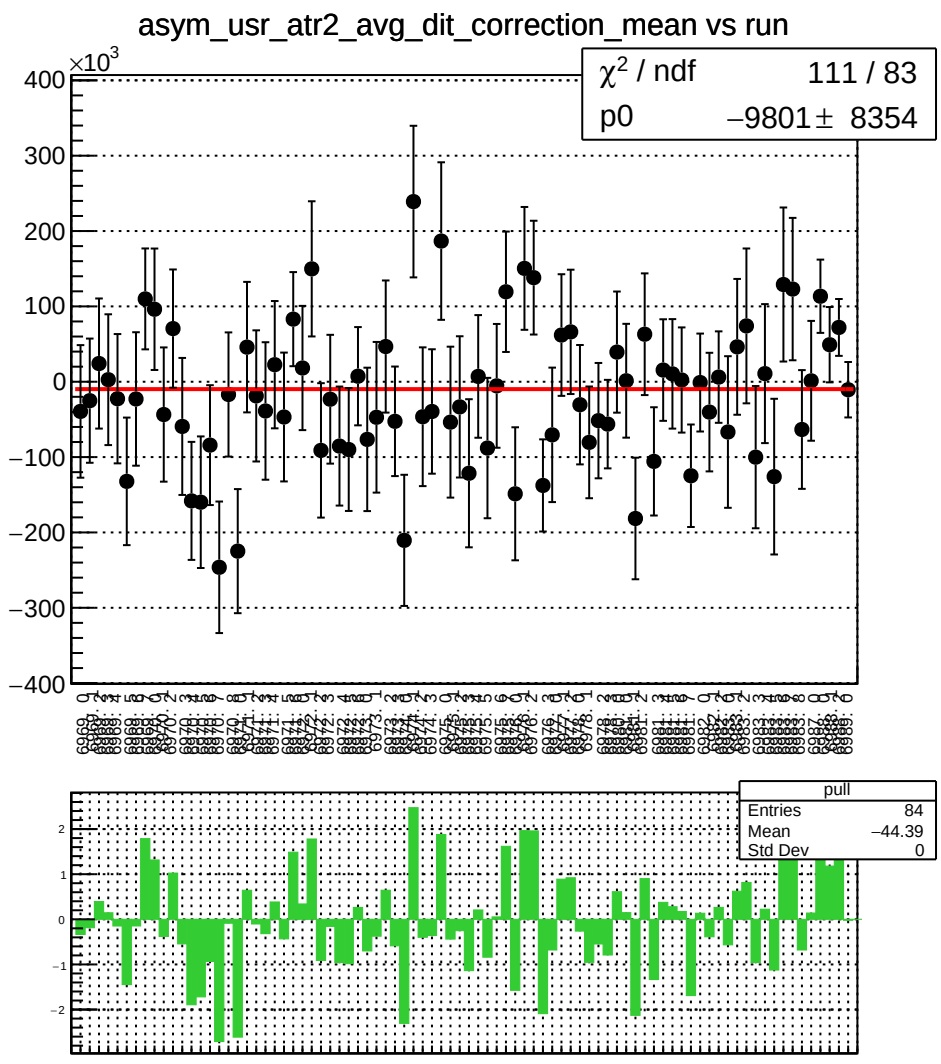

pull1D
Entries 84
Mean −0.0622
Std Dev 1.149
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

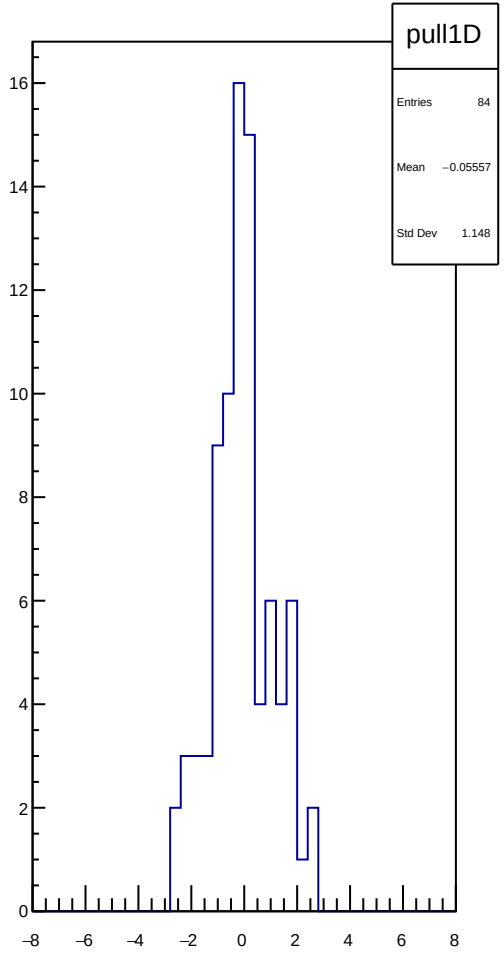

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 6.509e+04 / 83
p0 7041 ± 5.552
10000
9000
8000
7000
6000
5000
4000

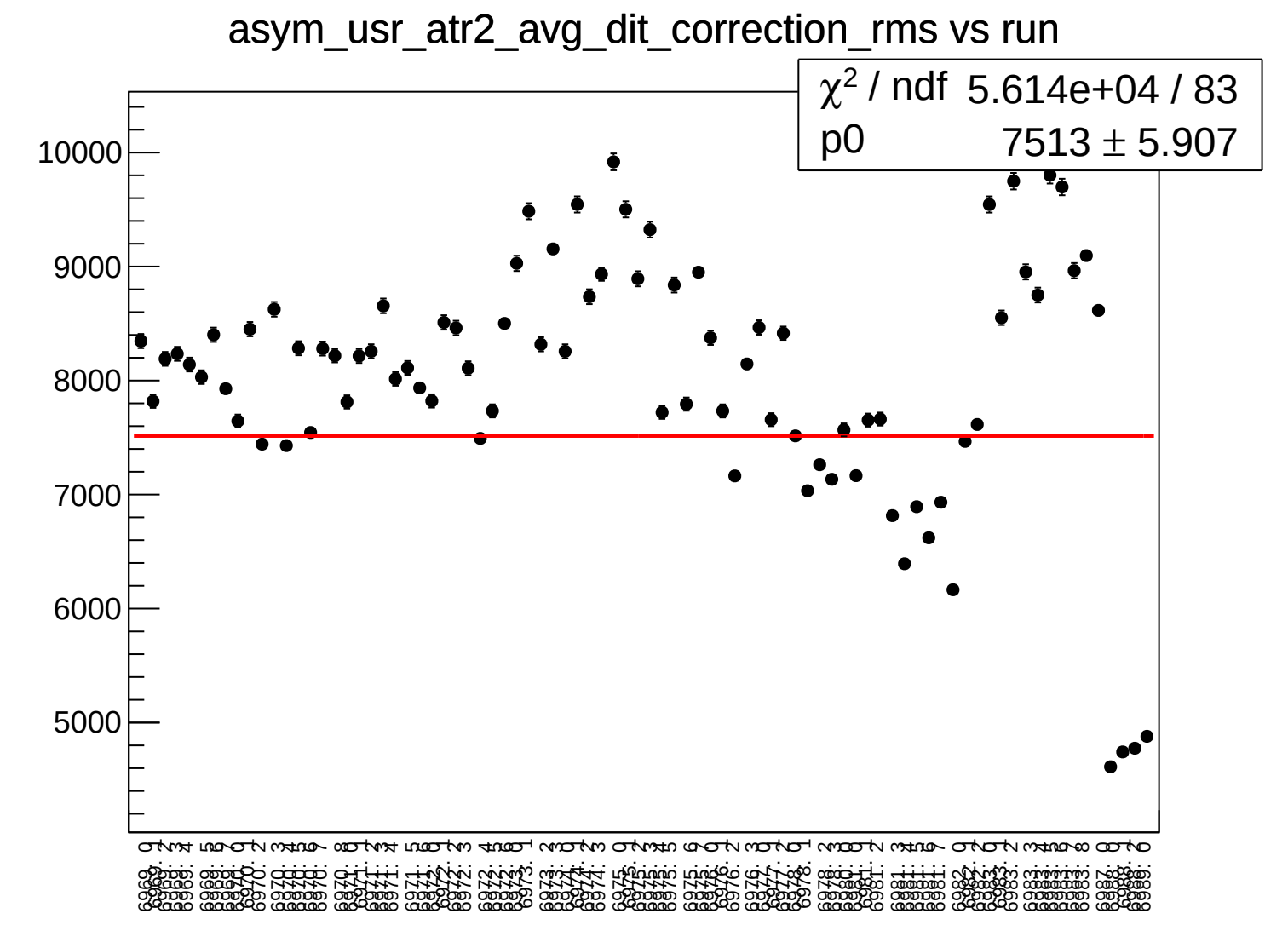

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 82.26 / 83
p0 1814 ± 1753
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −1508
Std Dev 0
3
2
1
0
−1
−2

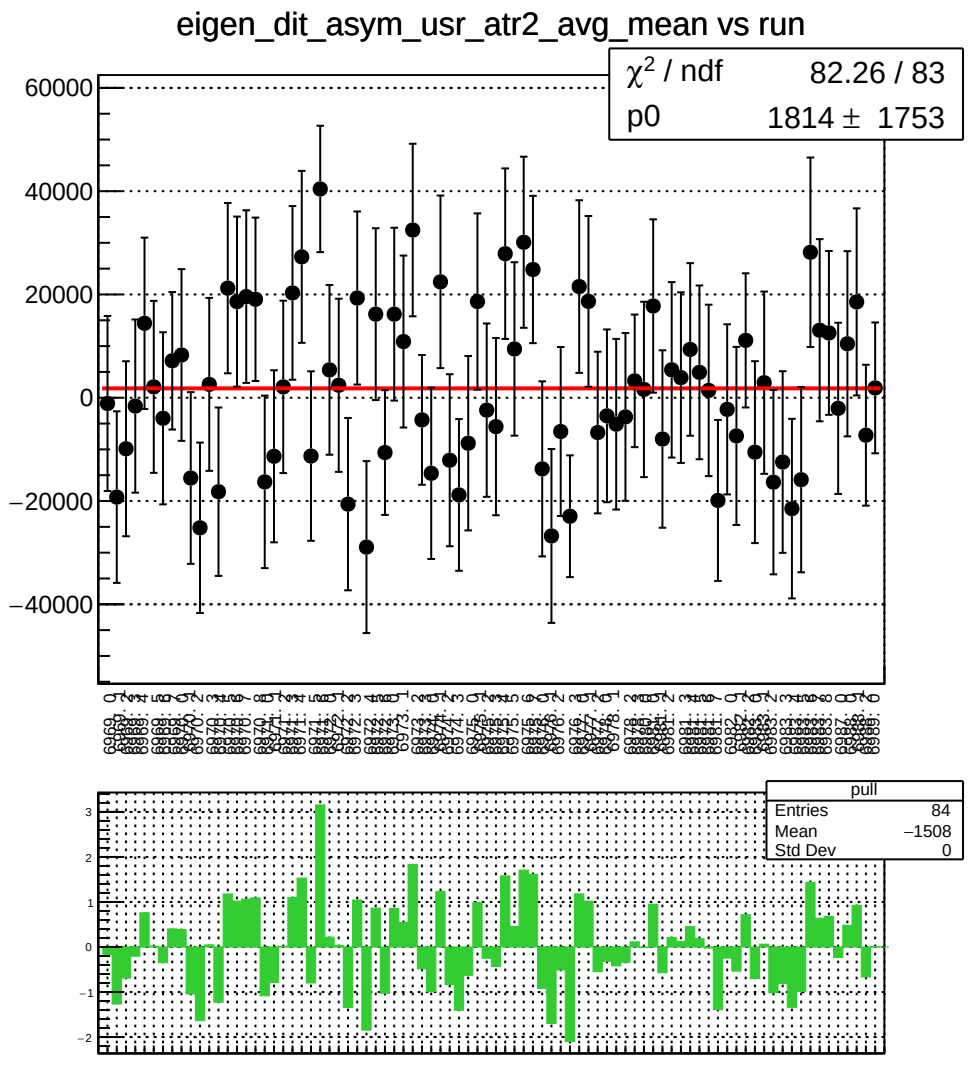

pull1D
Entries 84
Mean 0.0004066
Std Dev 0.9896
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

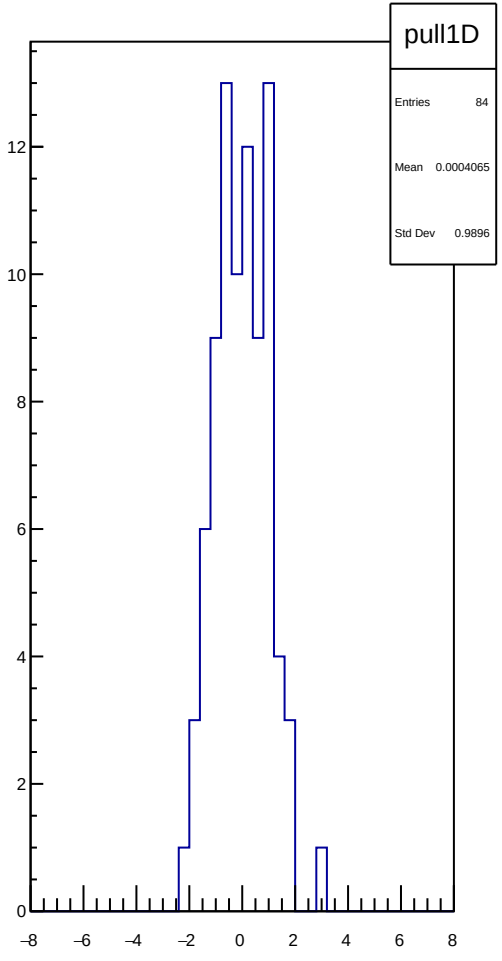

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1840 / 83
p0 1603 ± 1.24
1850
1800
1750
1700
1650
1600
1550
1500

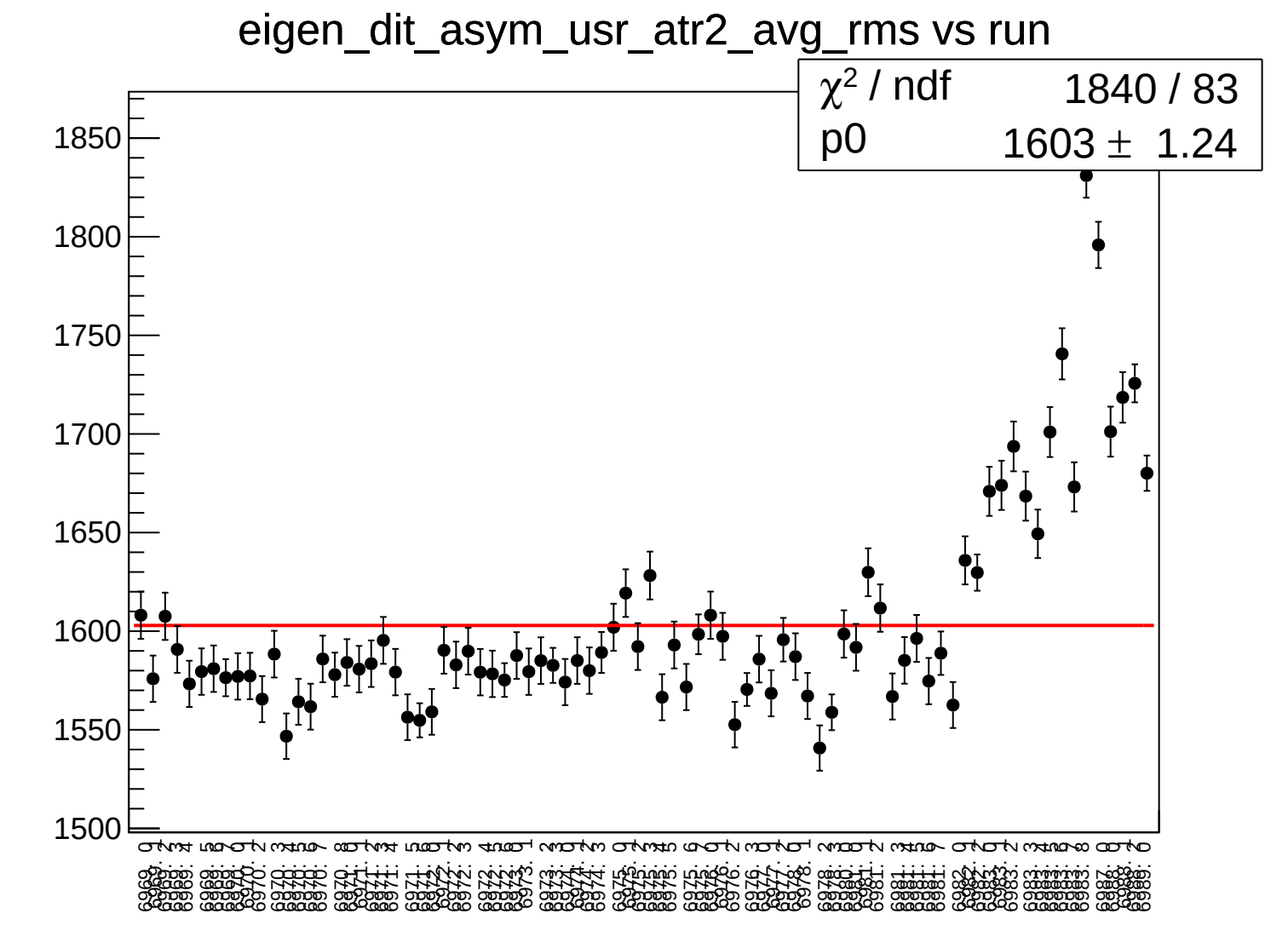

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 111 / 83
p0 −9801 ± 8354
pull
Entries 84
Mean −44.39
Std Dev 0

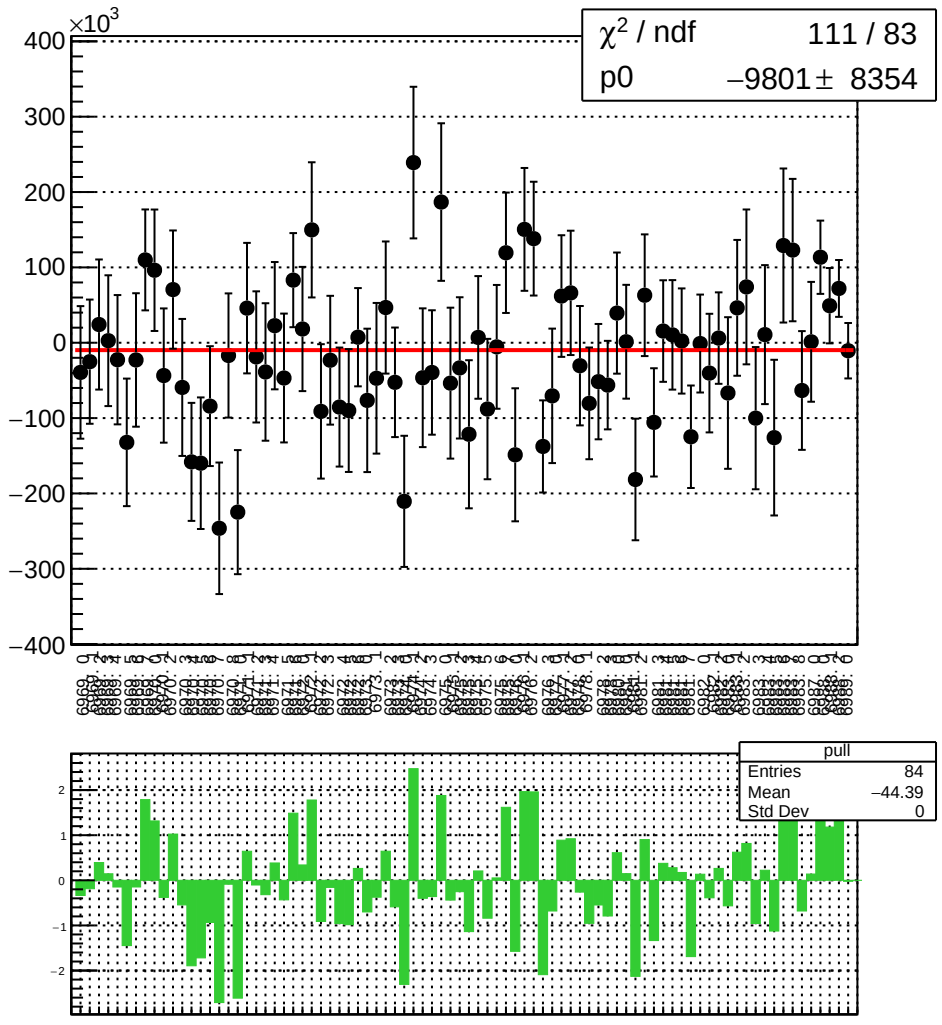

pull1D
Entries 84
Mean −0.05557
Std Dev 1.148

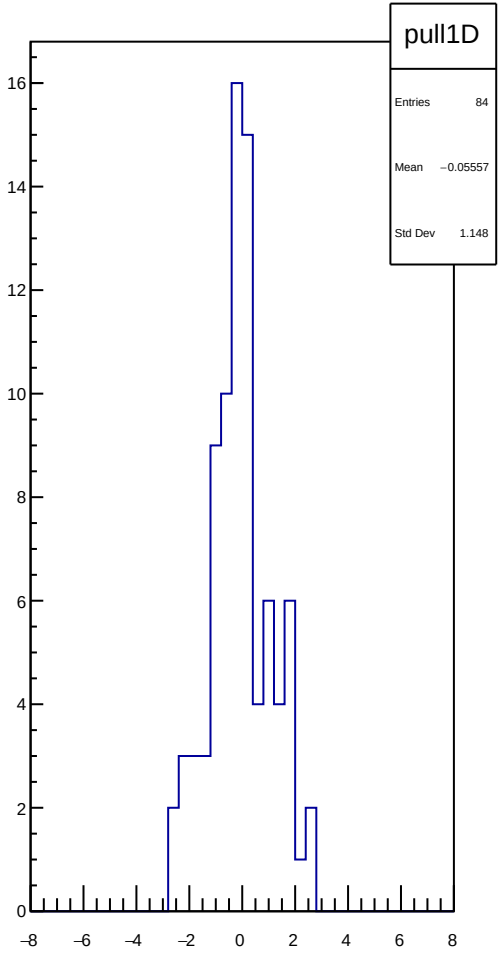

asym_usr_atr2_avg_dit_correction_rms vs run
χ^2 / ndf 5.614e+04 / 83
p0 7513 ± 5.907
10000
9000
8000
7000
6000
5000

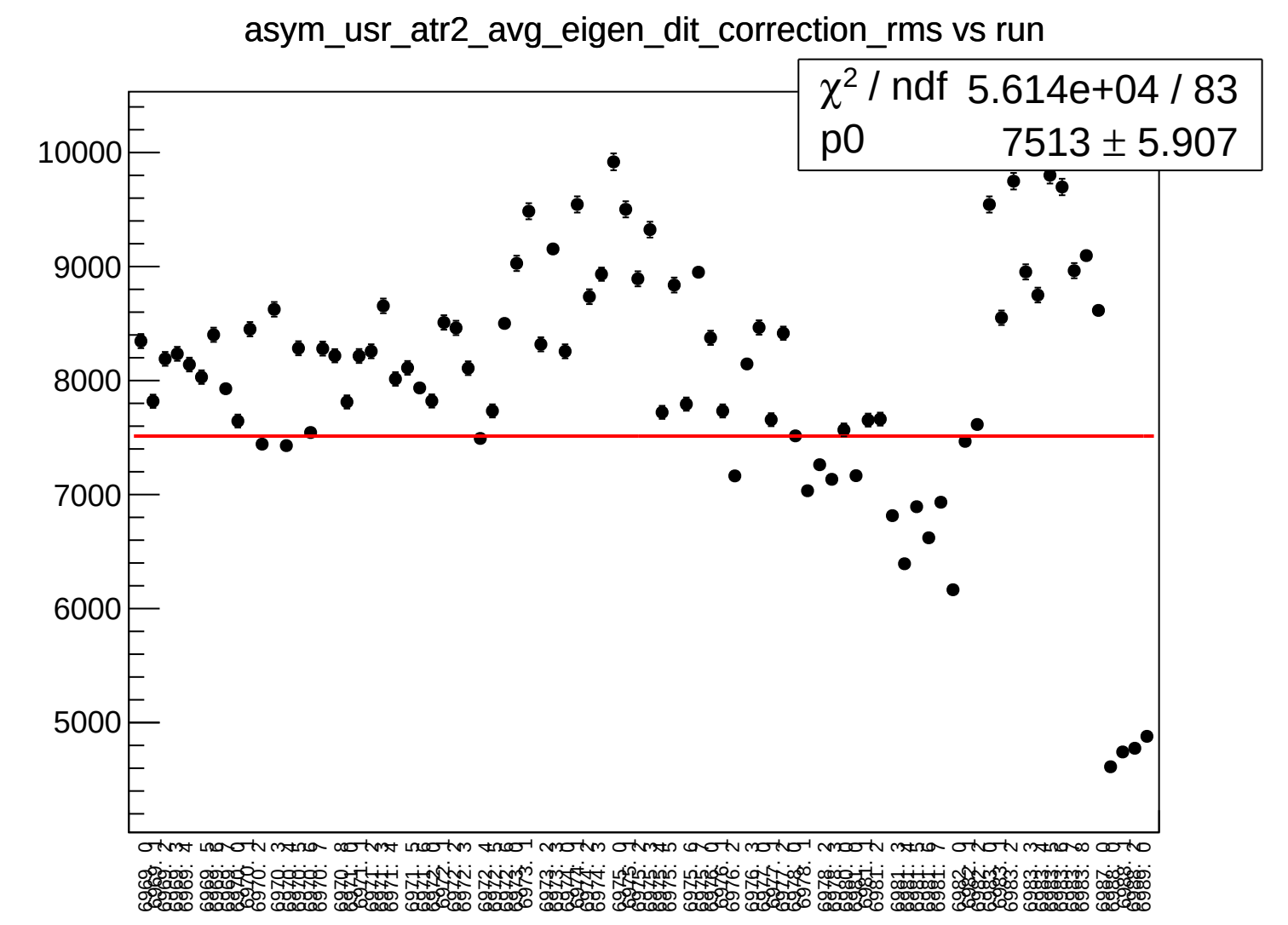

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 82.26 / 83
p0 1814 ± 1753
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −1508
Std Dev 0
3
2
1
0
−1
−2

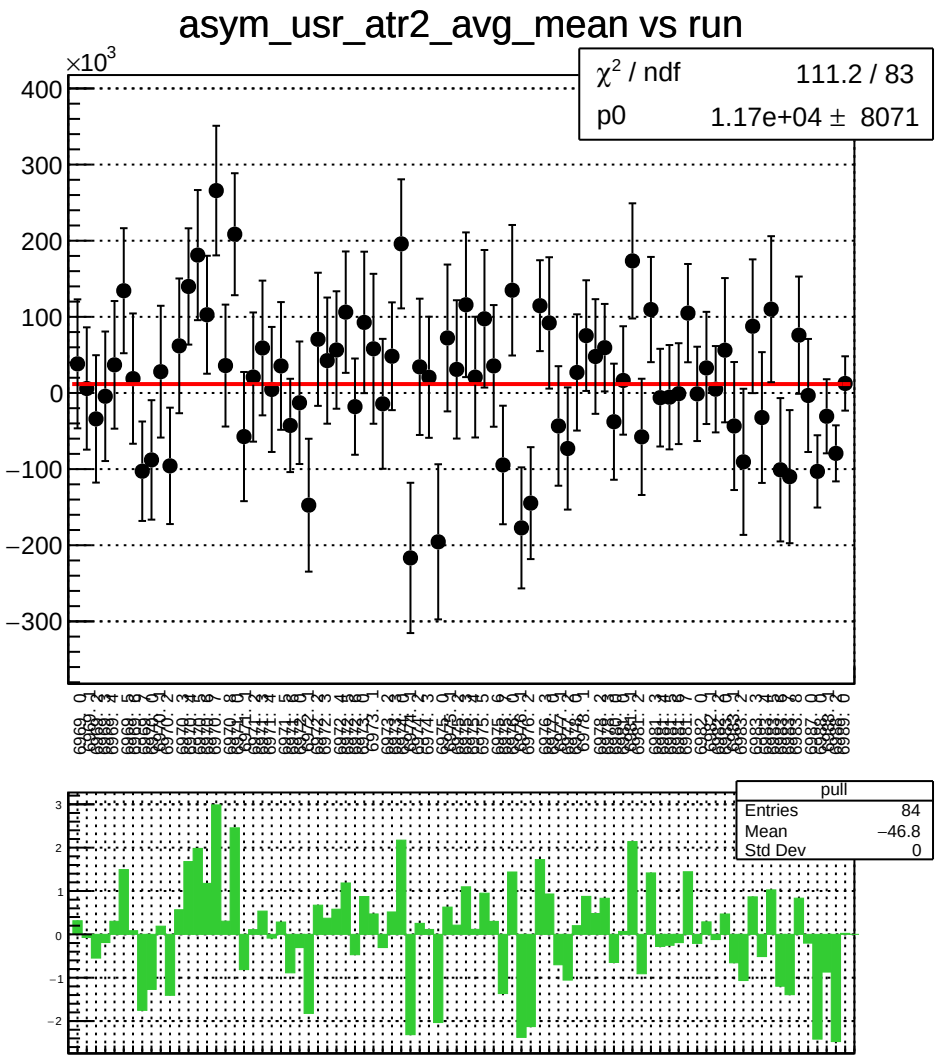

pull1D
Entries 84
Mean 0.0004065
Std Dev 0.9896
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

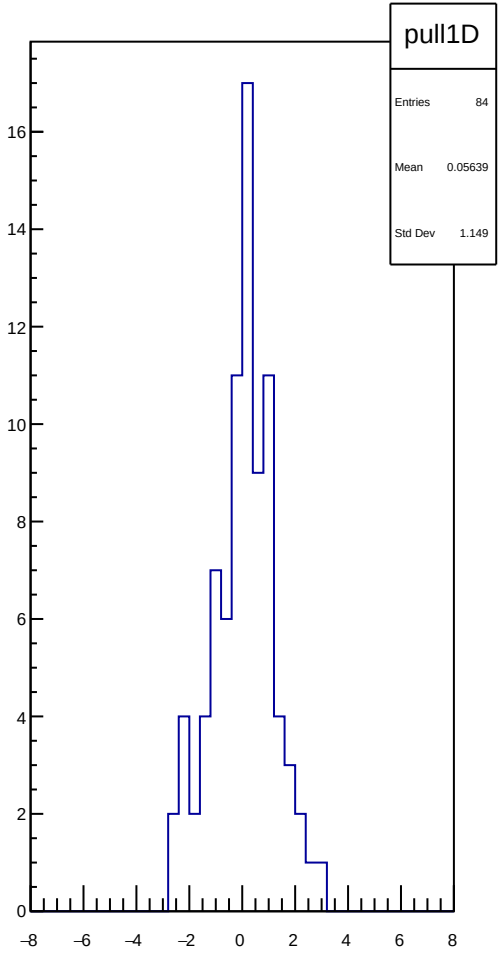

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1840 / 83
p0 1603 ± 1.24
1850
1800
1750
1700
1650
1600
1550
1500

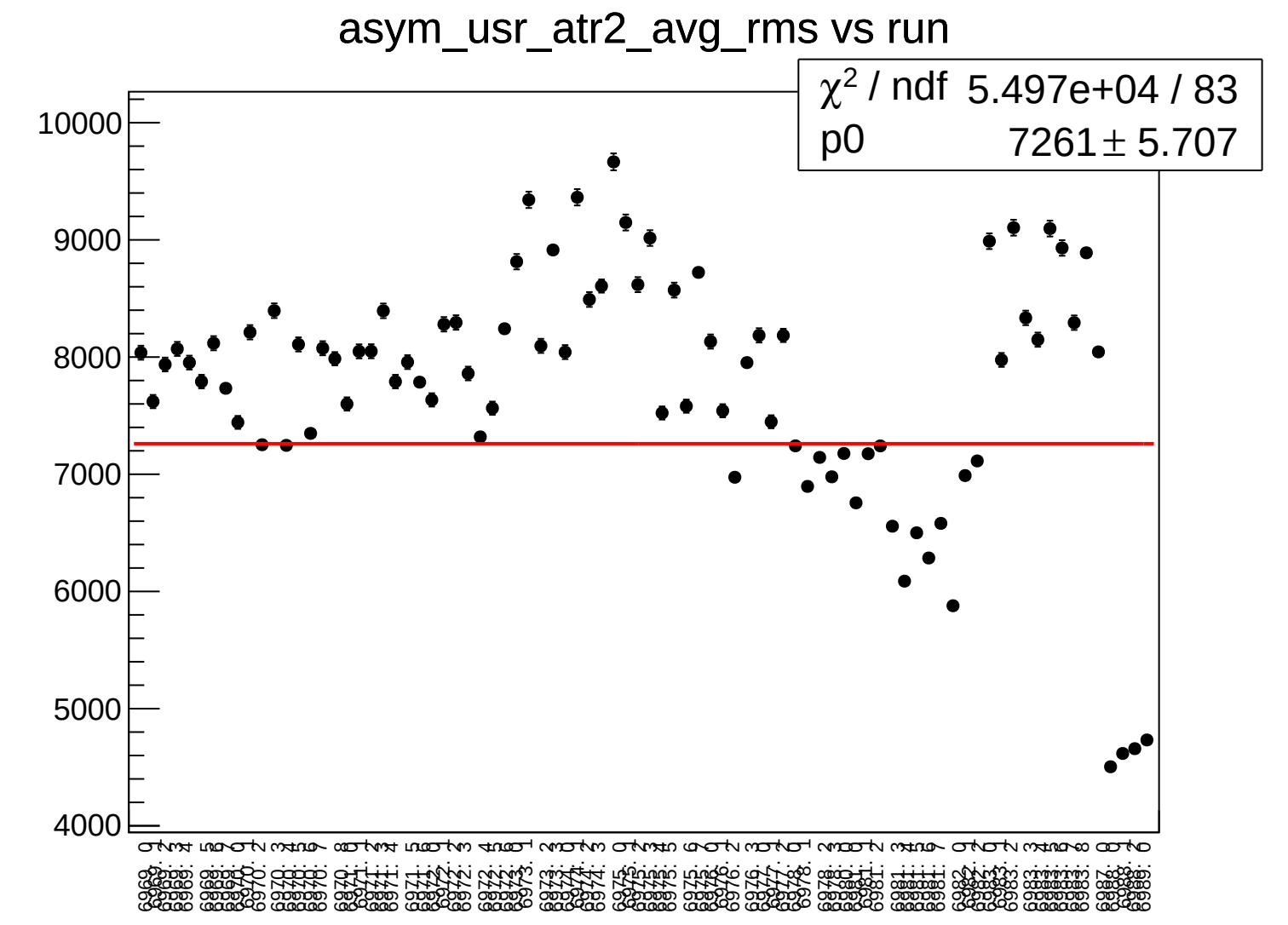

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 111 / 83
p0 −9801 ± 8354
pull
Entries 84
Mean −44.39
Std Dev 0

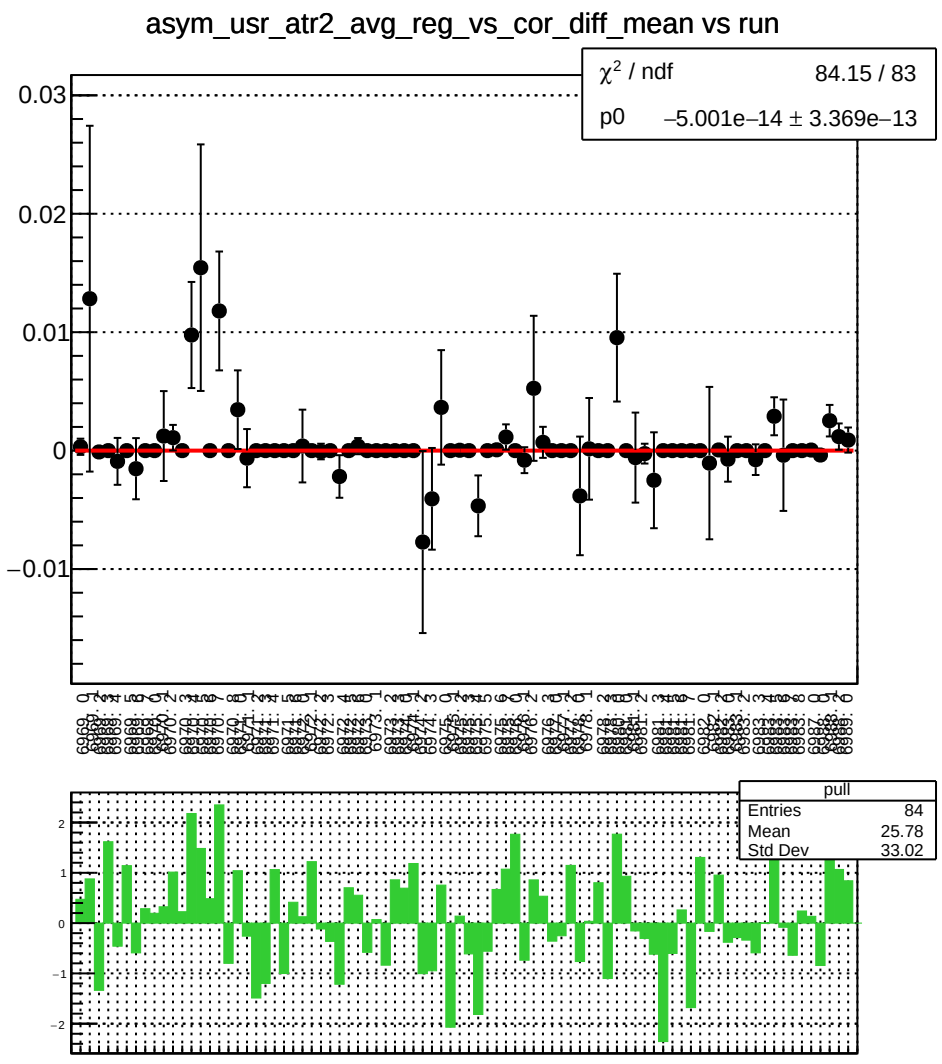

pull1D
Entries 84
Mean −0.05557
Std Dev 1.148

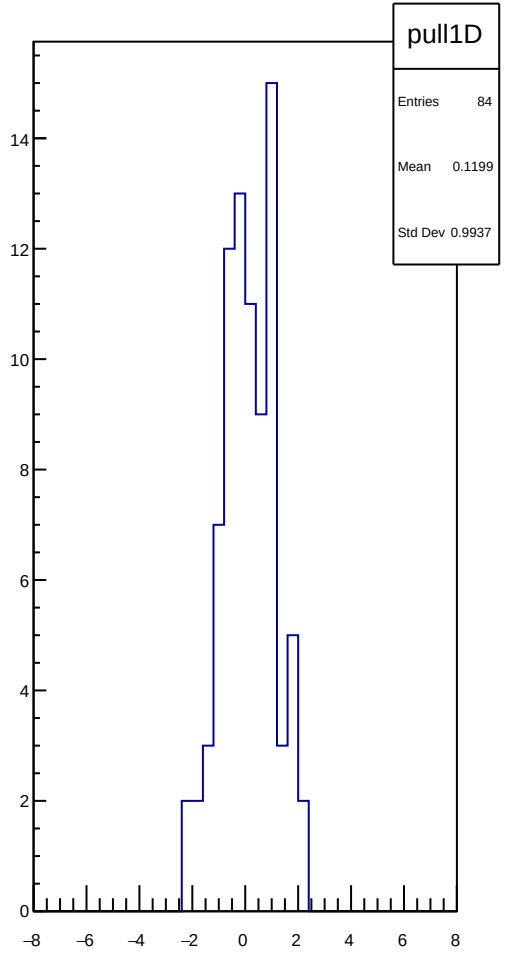

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.614e+04 / 83
p0 7513 ± 5.907
10000
9000
8000
7000
6000
5000

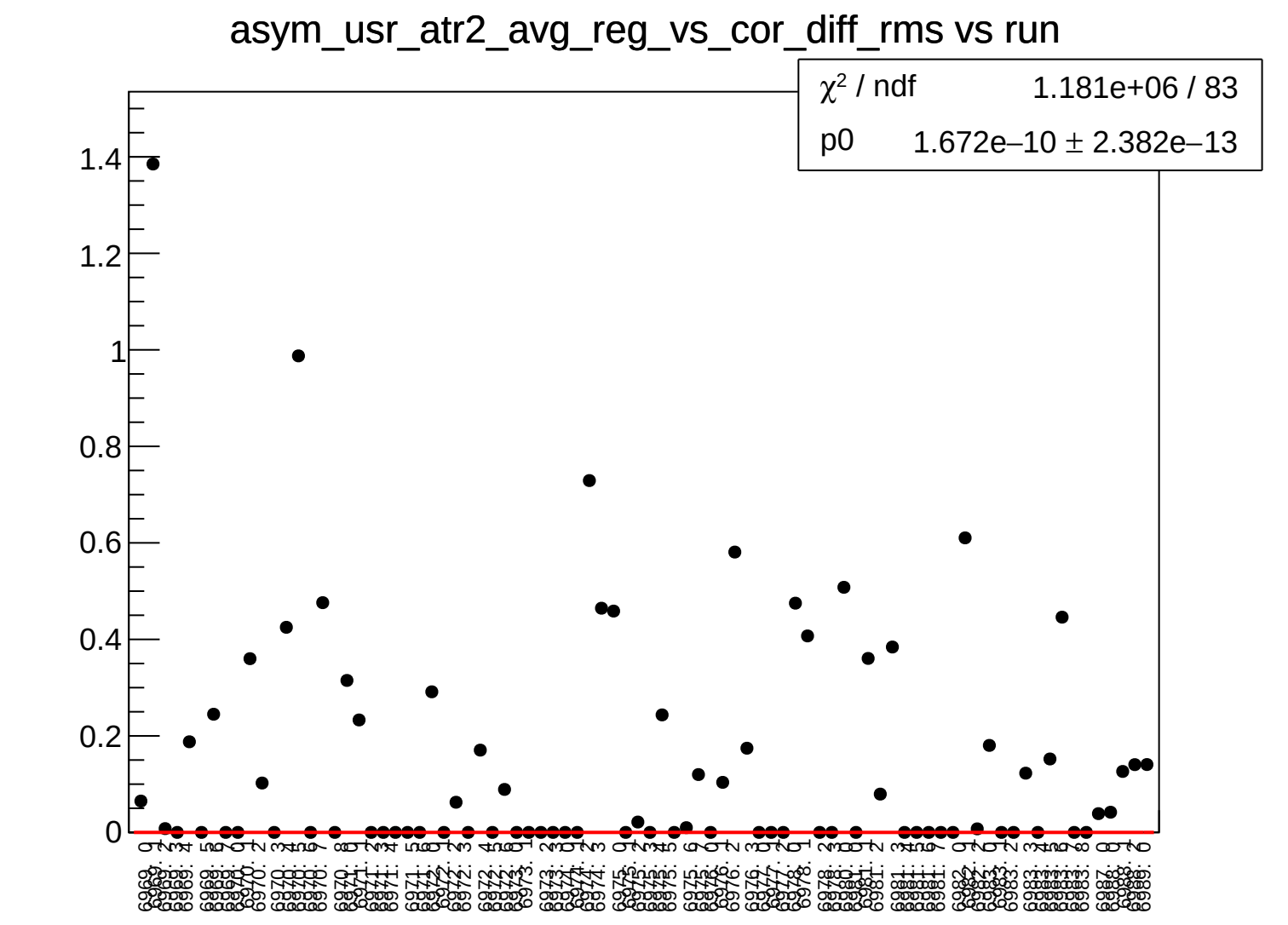

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 111.2 / 83
p0 1.17e+04 ± 8071
pull
Entries 84
Mean −46.8
Std Dev 0

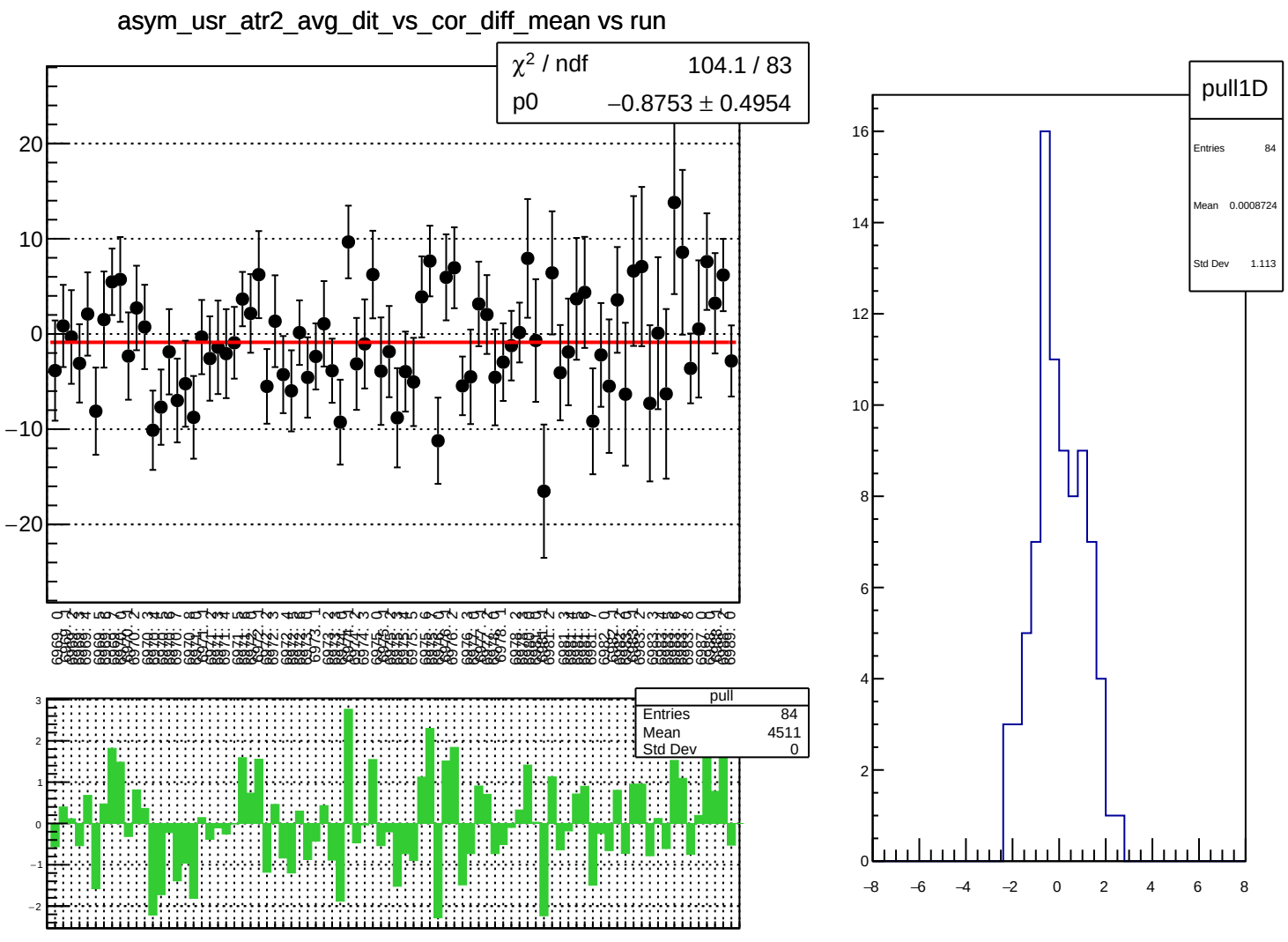

pull1D
Entries 84
Mean 0.05639
Std Dev 1.149

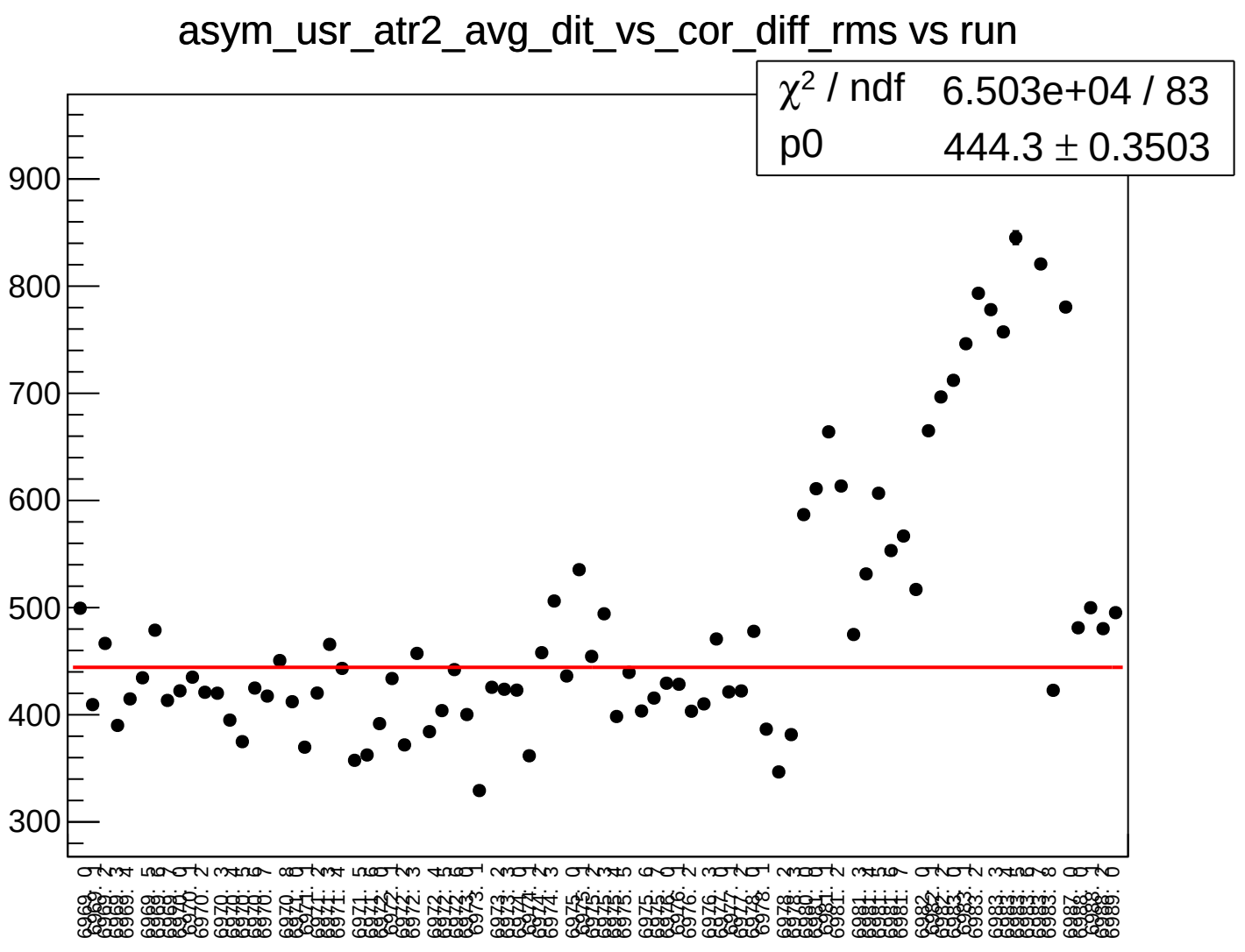

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 5.497e+04 / 83
p0 7261 ± 5.707
10000
9000
8000
7000
6000
5000
4000

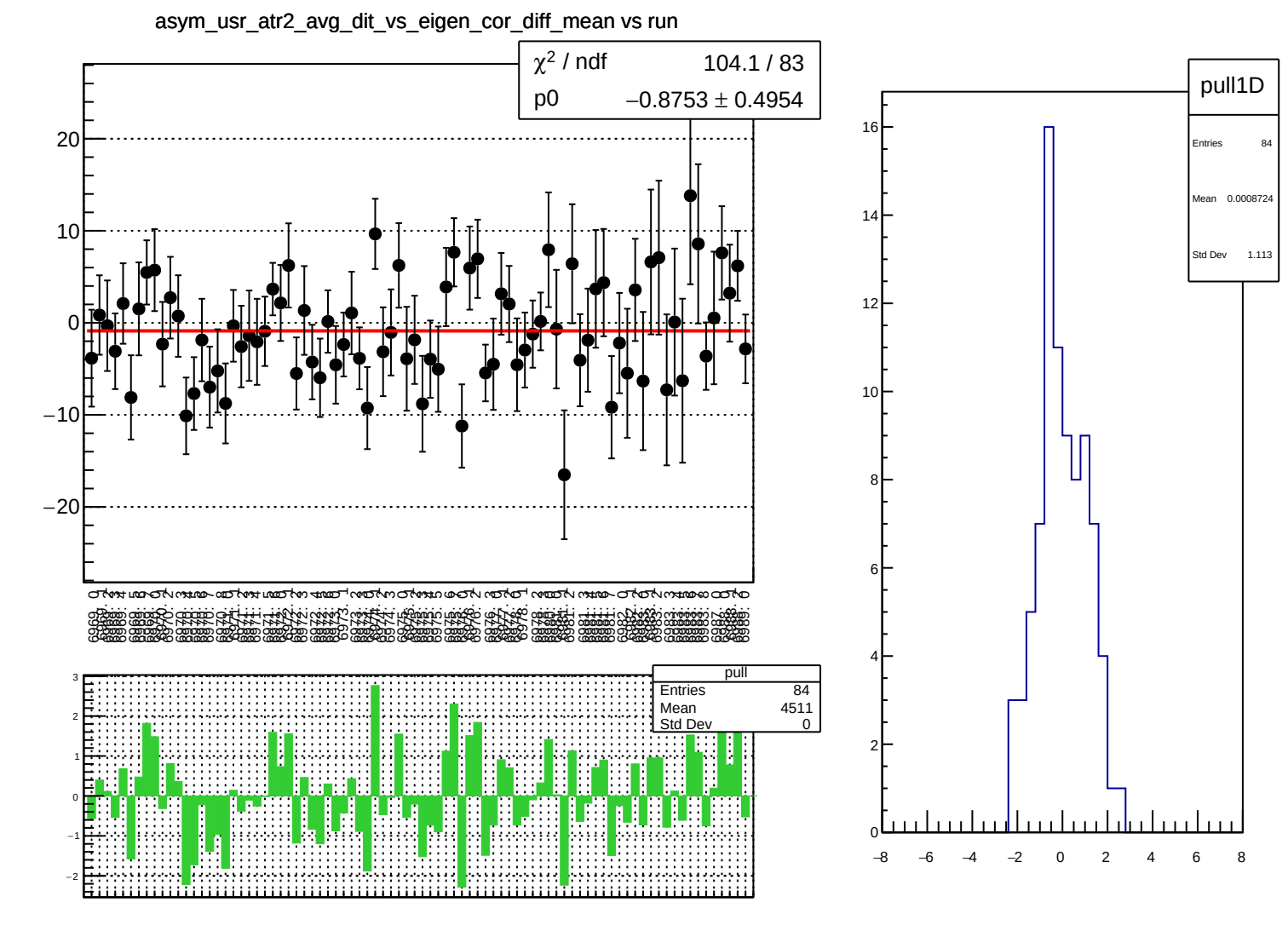

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.15 / 83
p0 −5.001e−14 ± 3.369e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 84
Mean 25.78
Std Dev 33.02
2
1
0
−1
−2

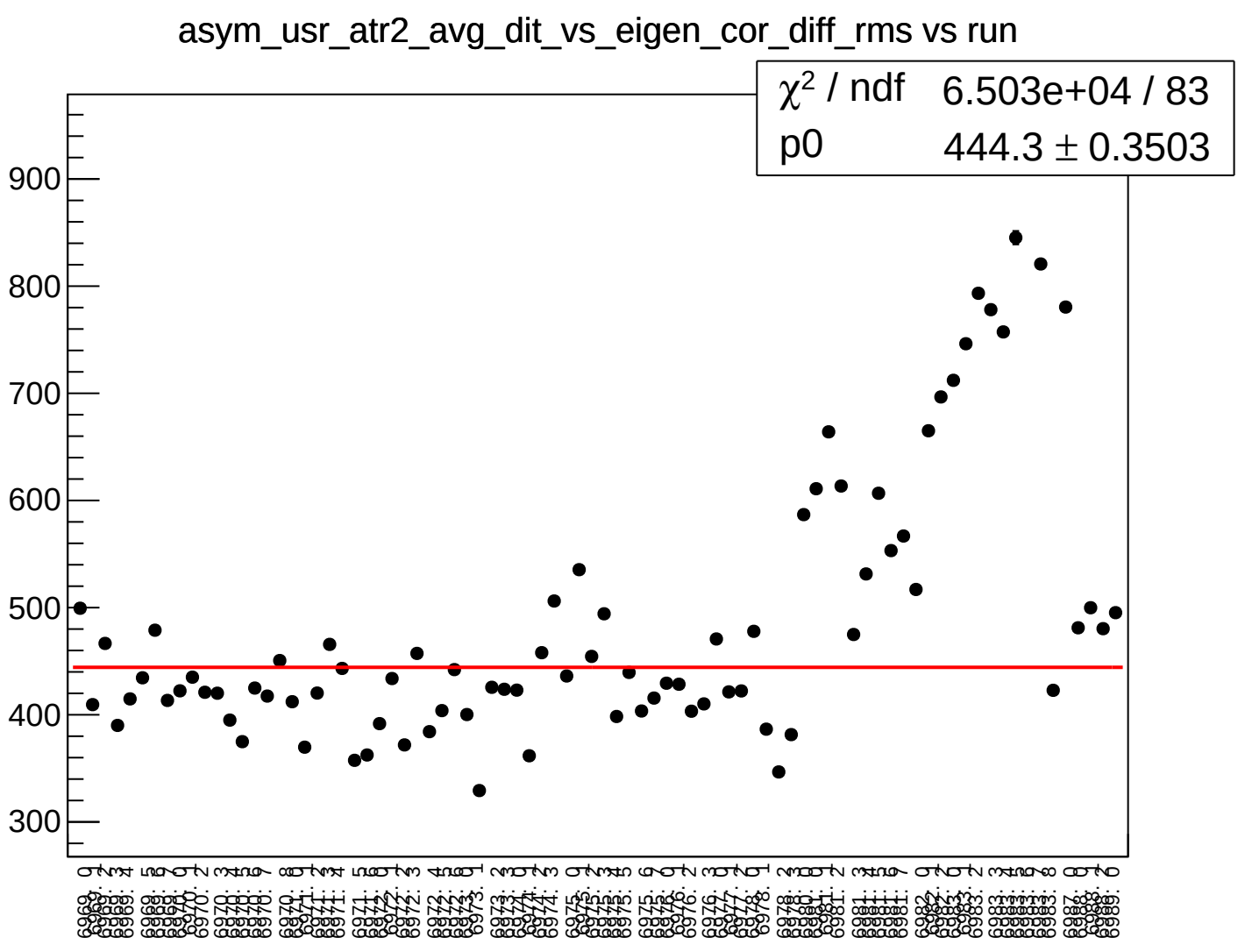

pull1D
Entries 84
Mean 0.1199
Std Dev 0.9937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

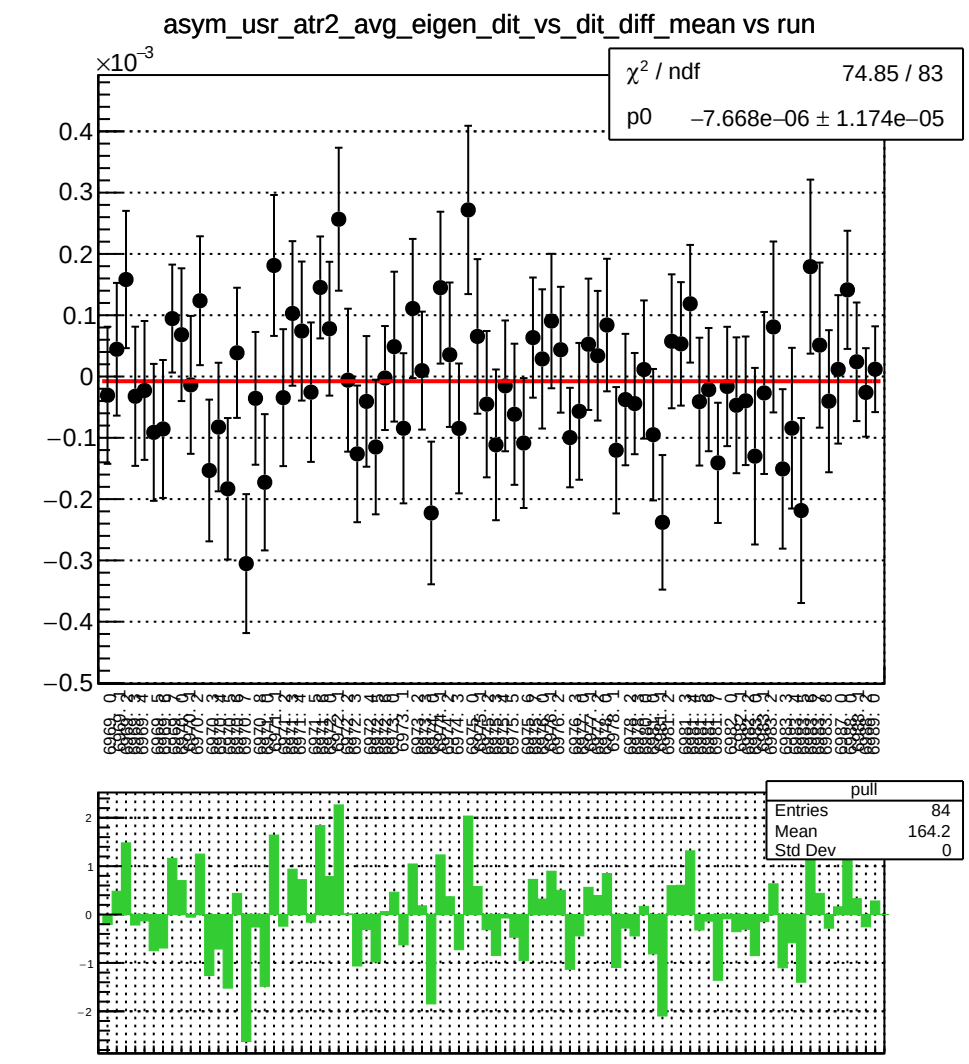

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.181e+06 / 83
p0 1.672e−10 ± 2.382e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

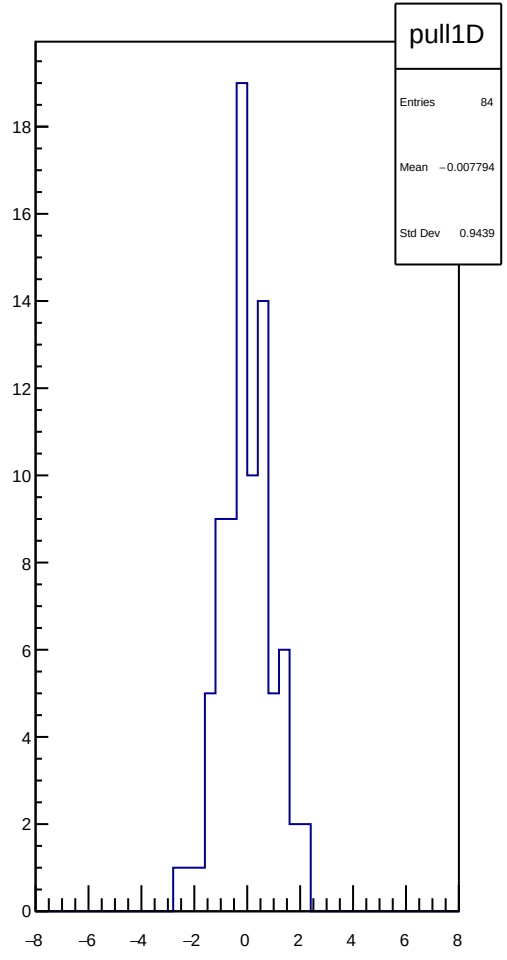

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 83
p0 −0.8753 ± 0.4954
pull
Entries 84
Mean 4511
Std Dev 0
pull1D
Entries 84
Mean 0.0008724
Std Dev 1.113

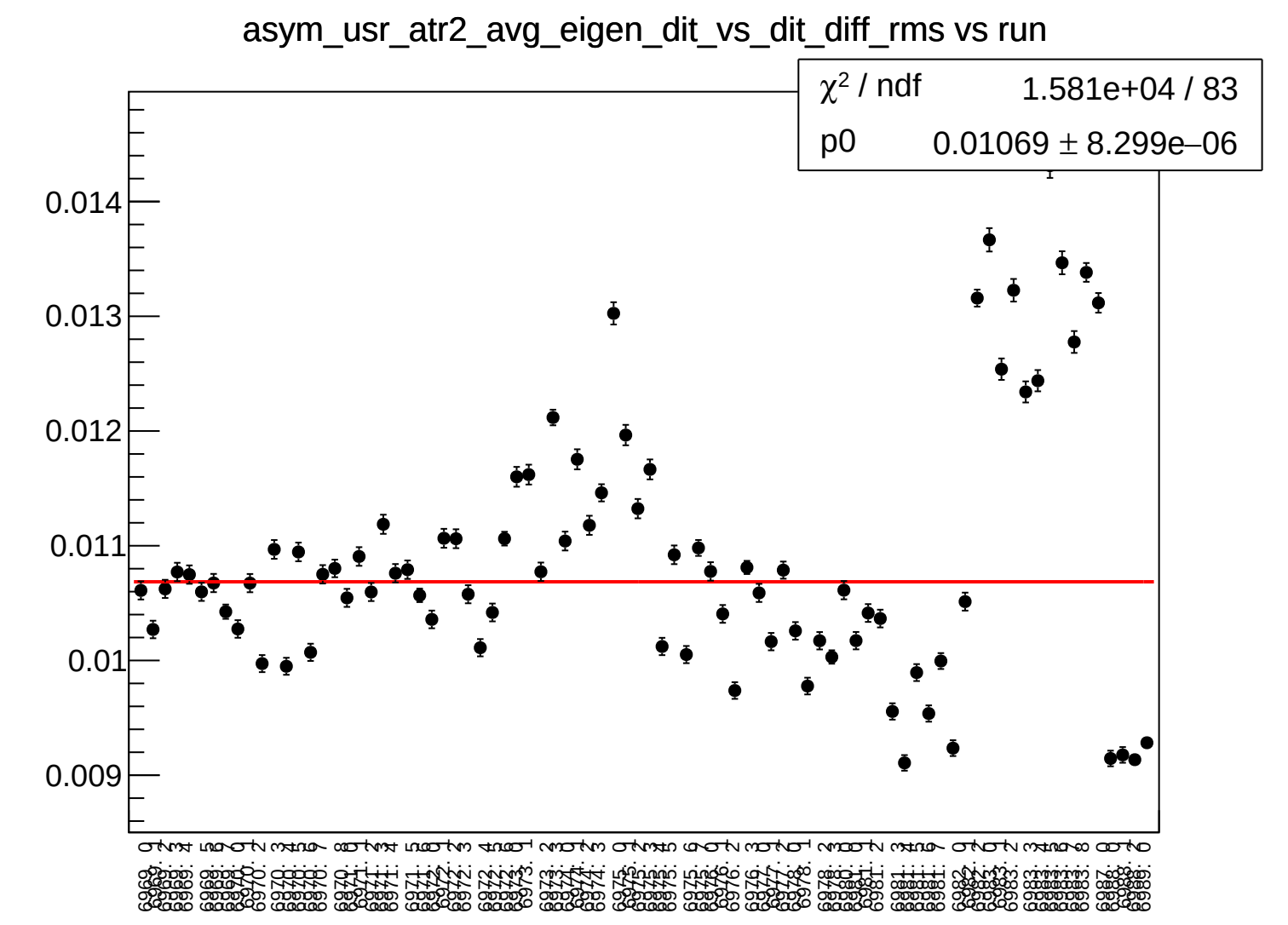

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.503e+04 / 83
p0 444.3 ± 0.3503
900
800
700
600
500
400
300

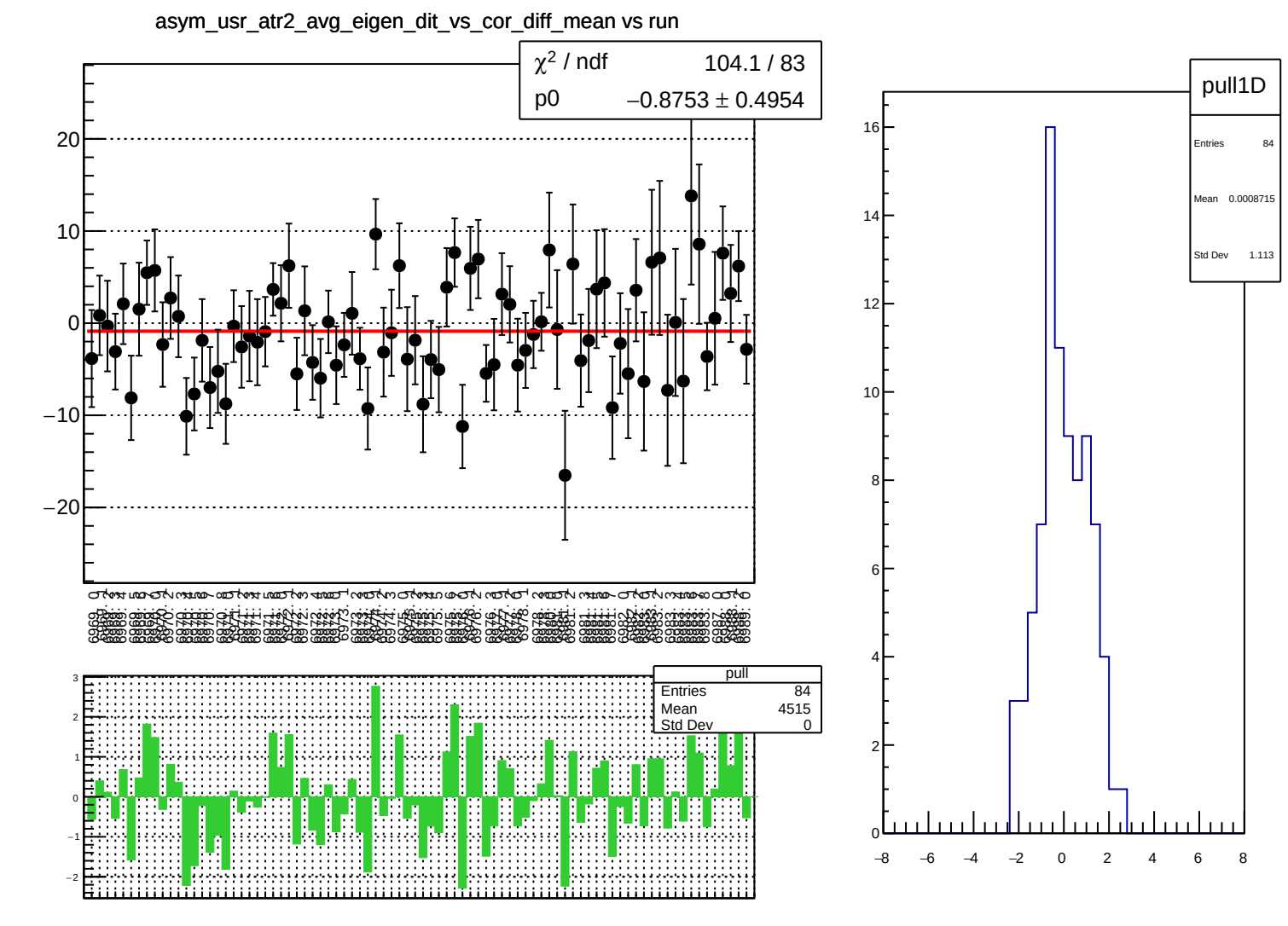

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 83
p0 −0.8753 ± 0.4954
20
10
0
−10
−20
pull
Entries 84
Mean 4511
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.0008724
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

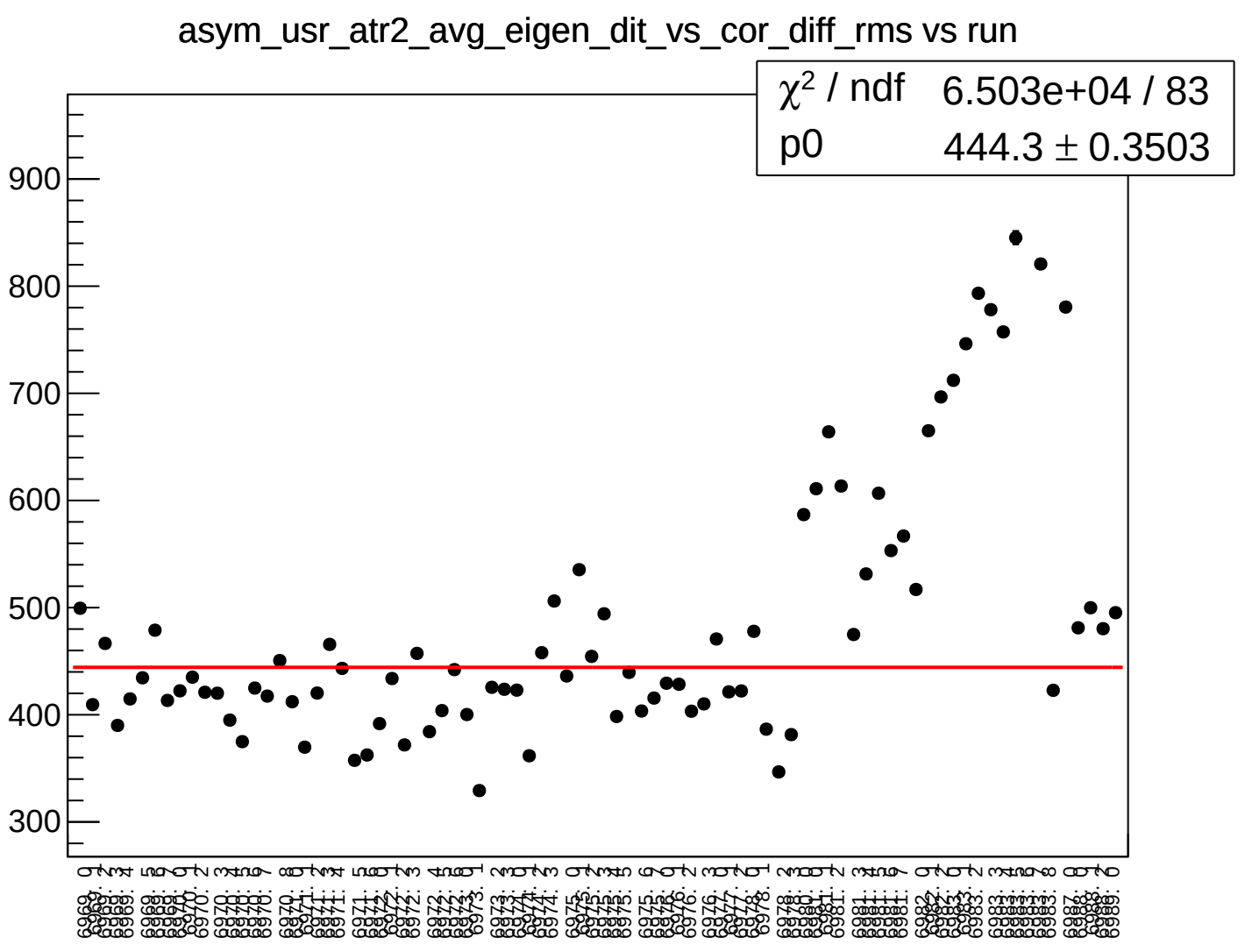

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.503e+04 / 83
p0 444.3 ± 0.3503
900
800
700
600
500
400
300

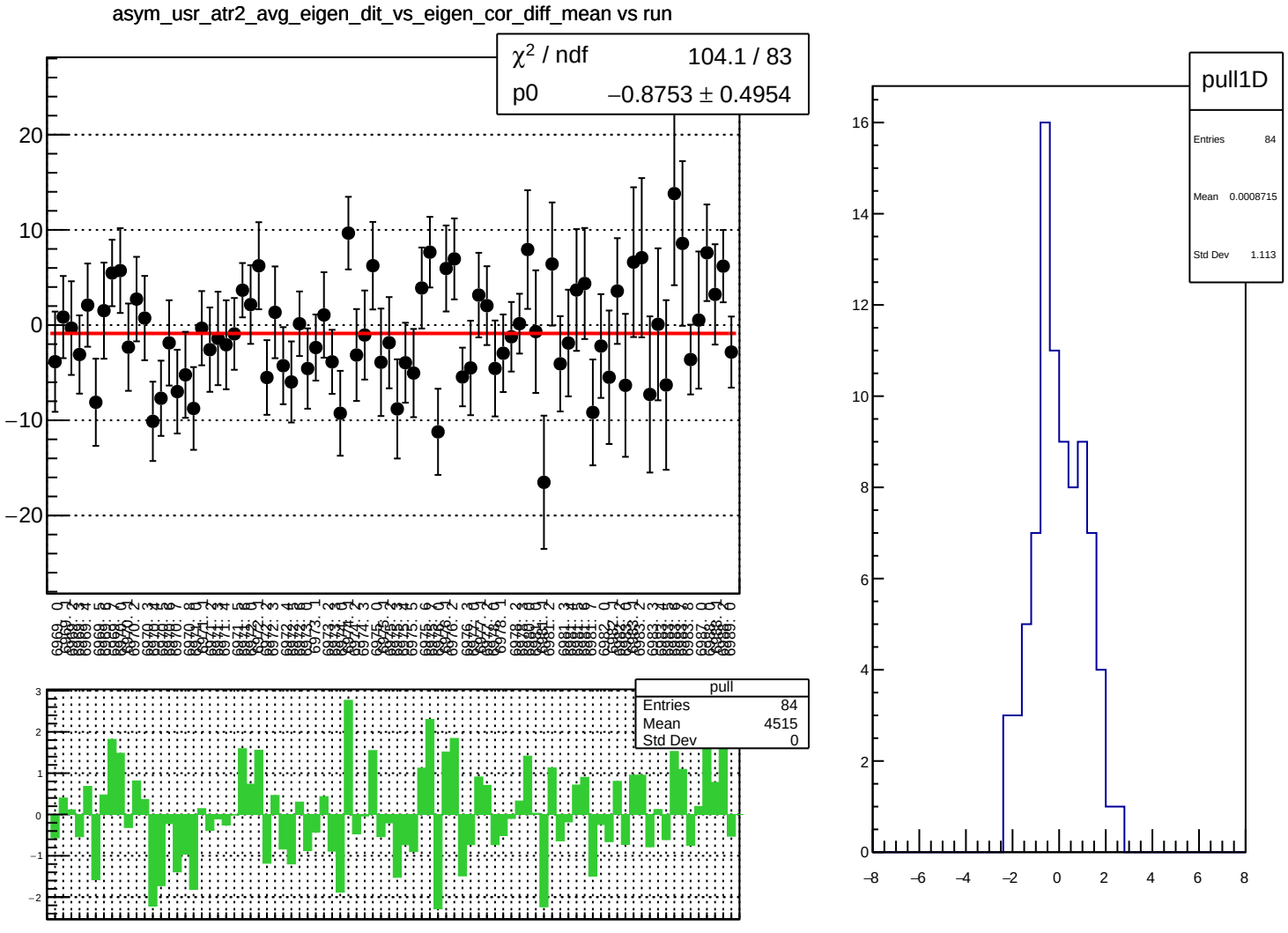

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.85 / 83
p0 −7.668e−06 ± 1.174e−05
pull
Entries 84
Mean 164.2
Std Dev 0

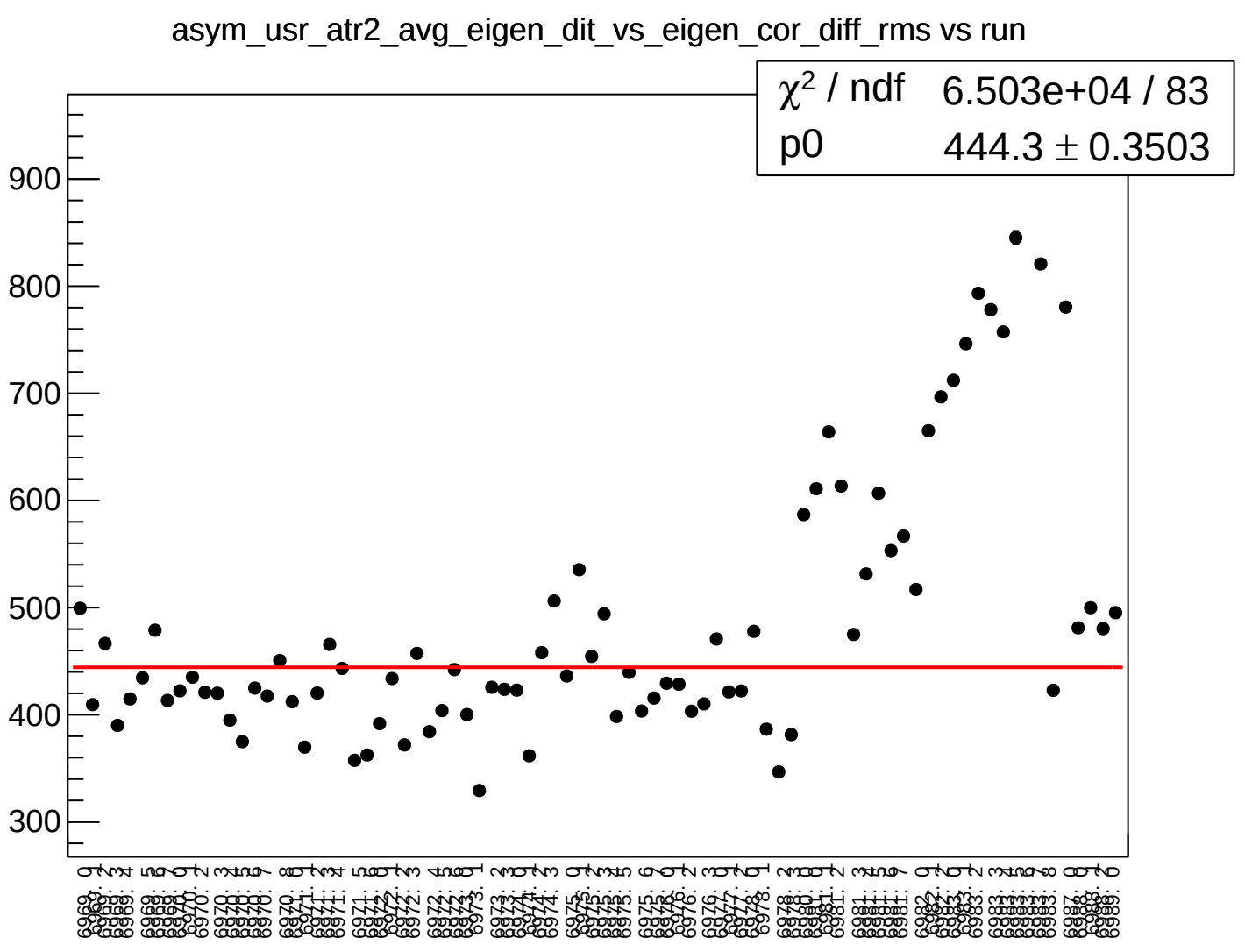

pull1D
Entries 84
Mean −0.007794
Std Dev 0.9439

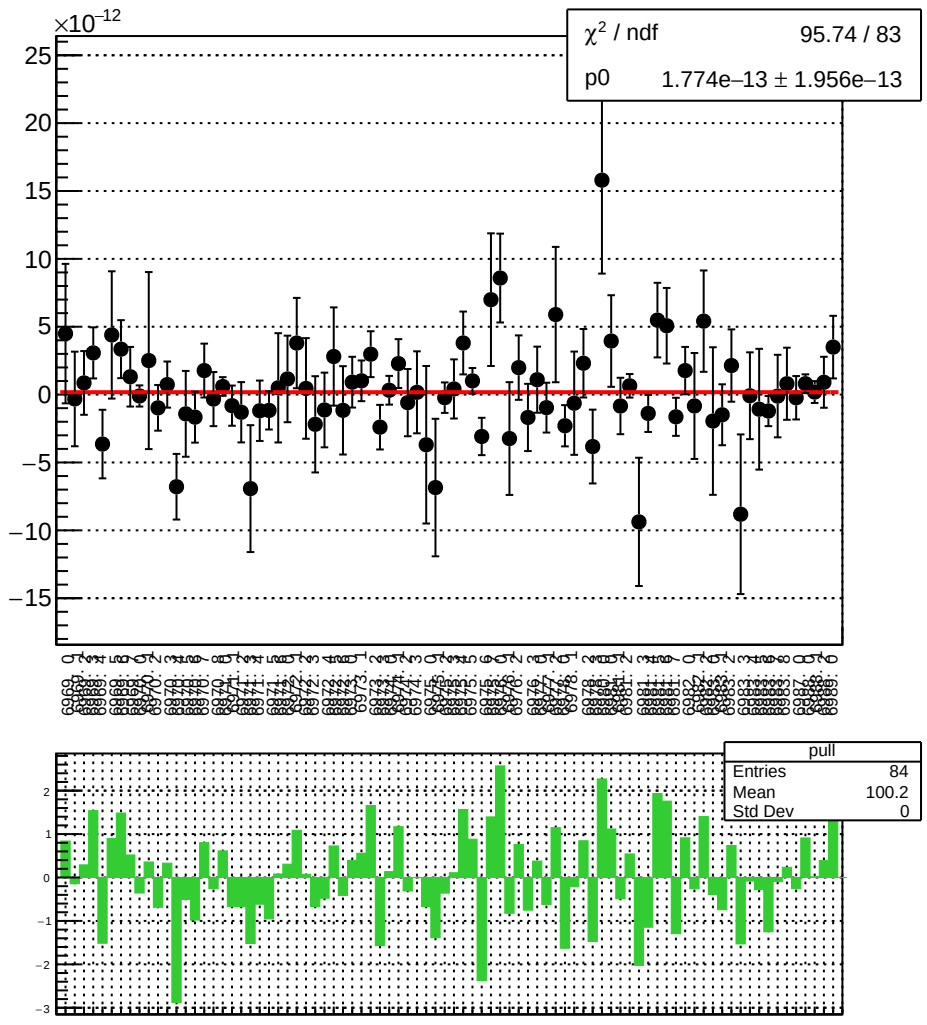

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.581e+04 / 83
p0 0.01069 ± 8.299e–06
0.014
0.013
0.012
0.011
0.01
0.009

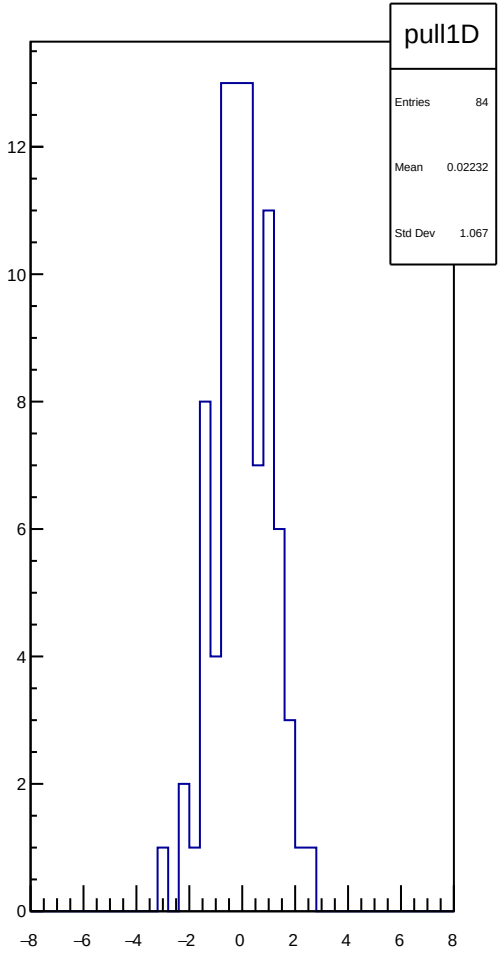

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 83
p0 −0.8753 ± 0.4954
pull
Entries 84
Mean 4515
Std Dev 0
pull1D
Entries 84
Mean 0.0008715
Std Dev 1.113

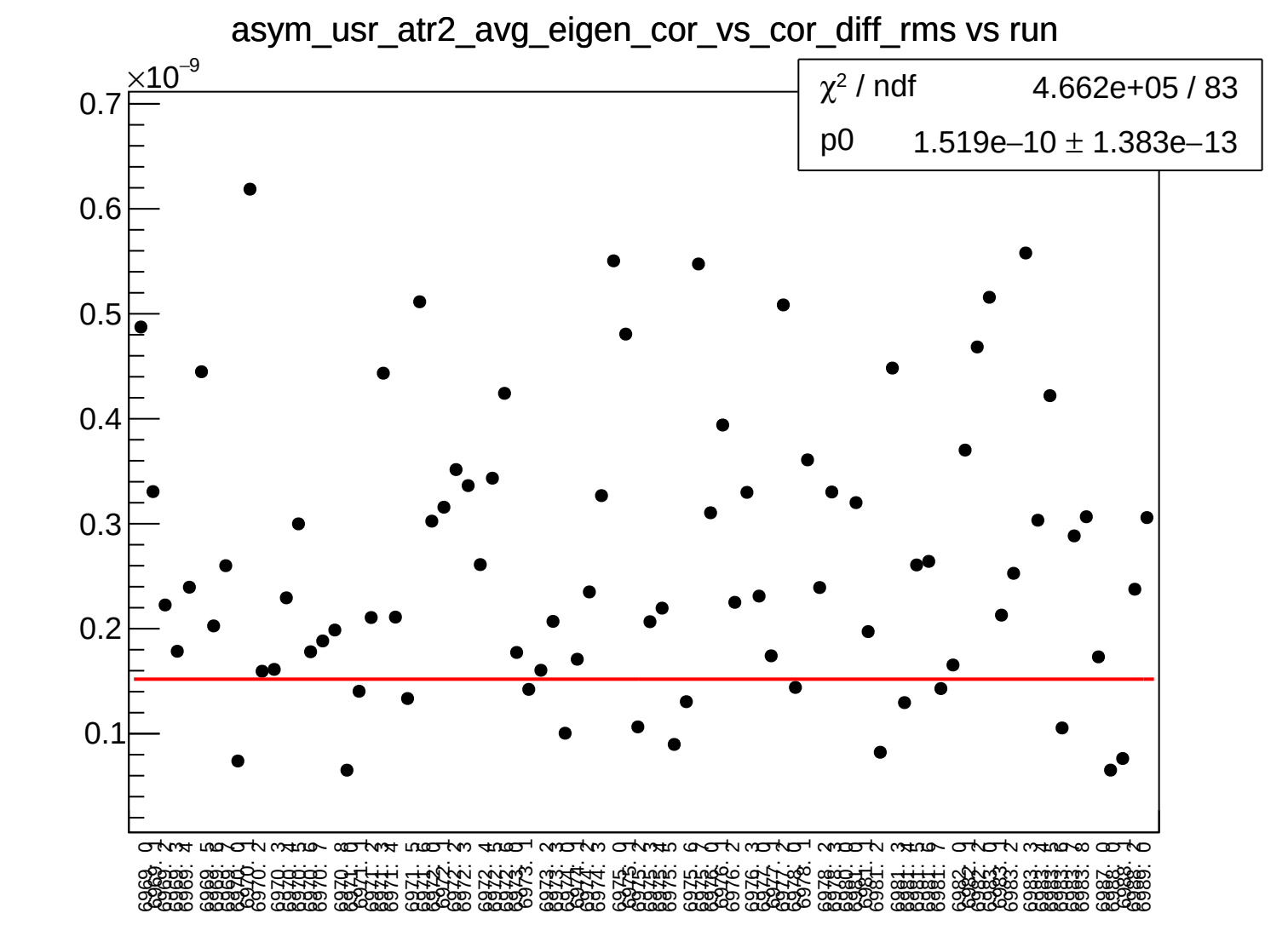

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.503e+04 / 83
p0 444.3 ± 0.3503
900
800
700
600
500
400
300

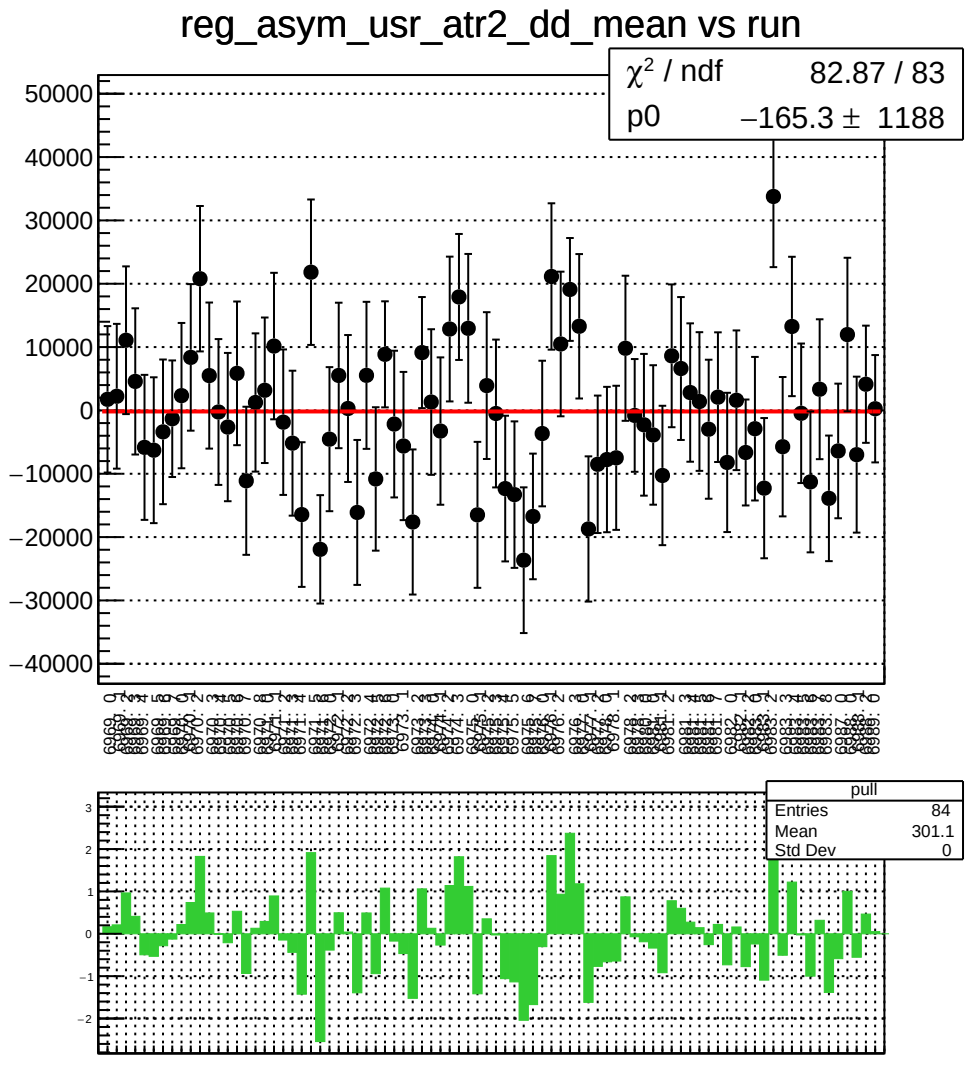

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 83
p0 −0.8753 ± 0.4954
pull
Entries 84
Mean 4515
Std Dev 0
pull1D
Entries 84
Mean 0.0008715
Std Dev 1.113

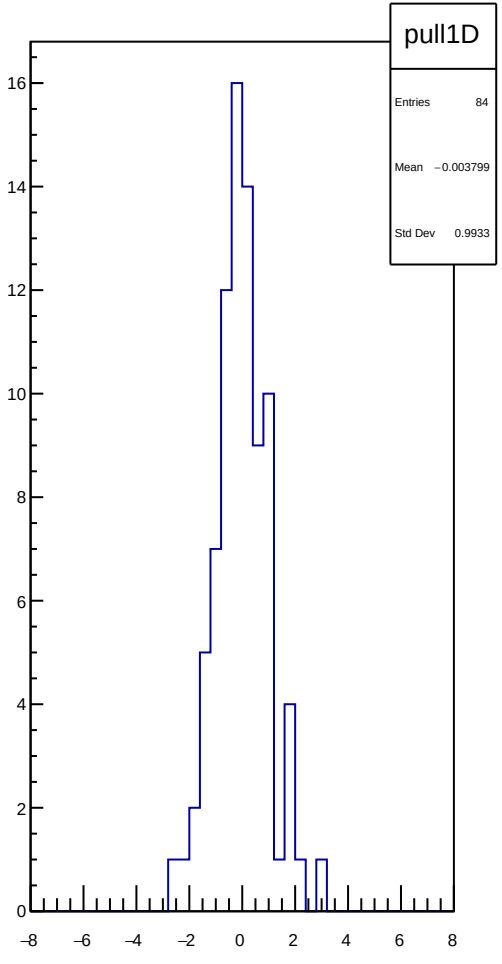

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.503e+04 / 83
p0 444.3 ± 0.3503
900
800
700
600
500
400
300

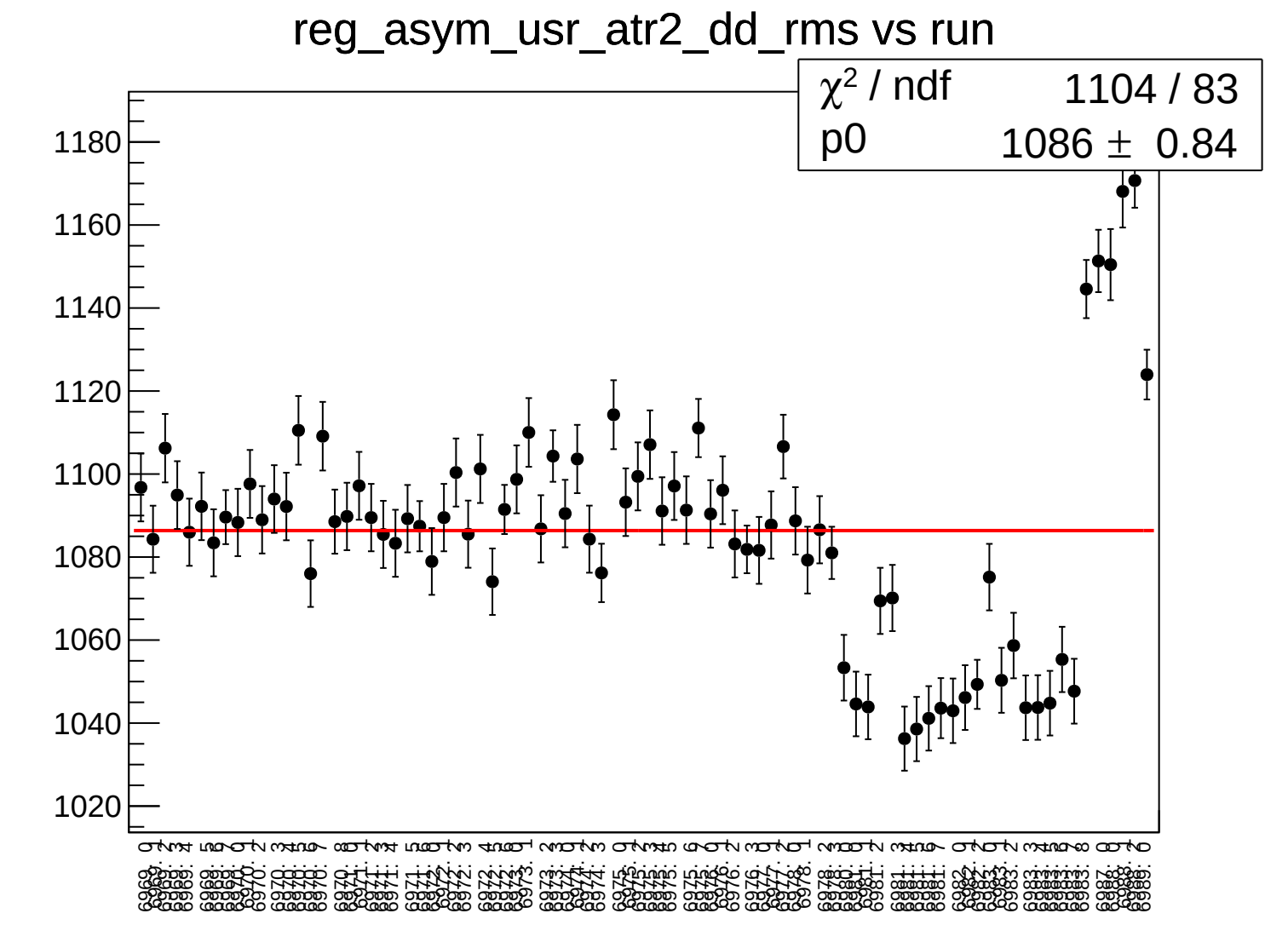

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.74 / 83
p0 1.774e−13 ± 1.956e−13
pull
Entries 84
Mean 100.2
Std Dev 0

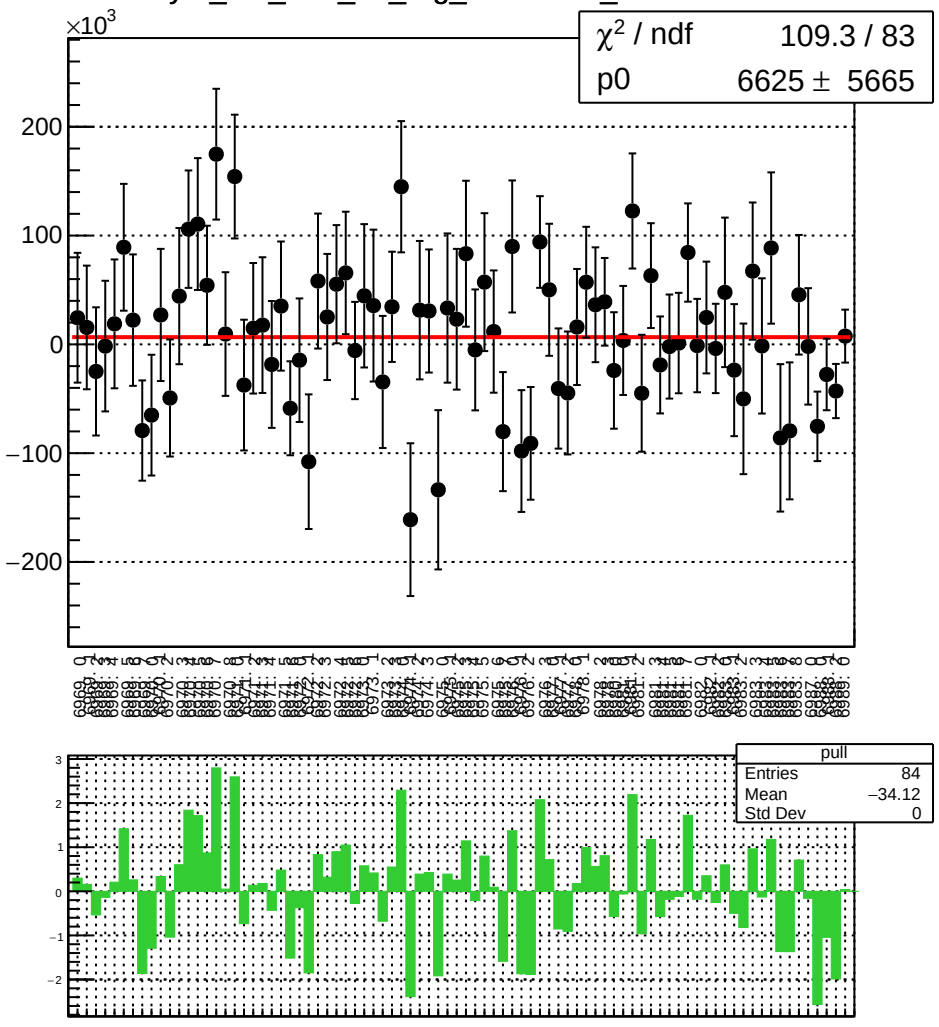

pull1D
Entries 84
Mean 0.02232
Std Dev 1.067

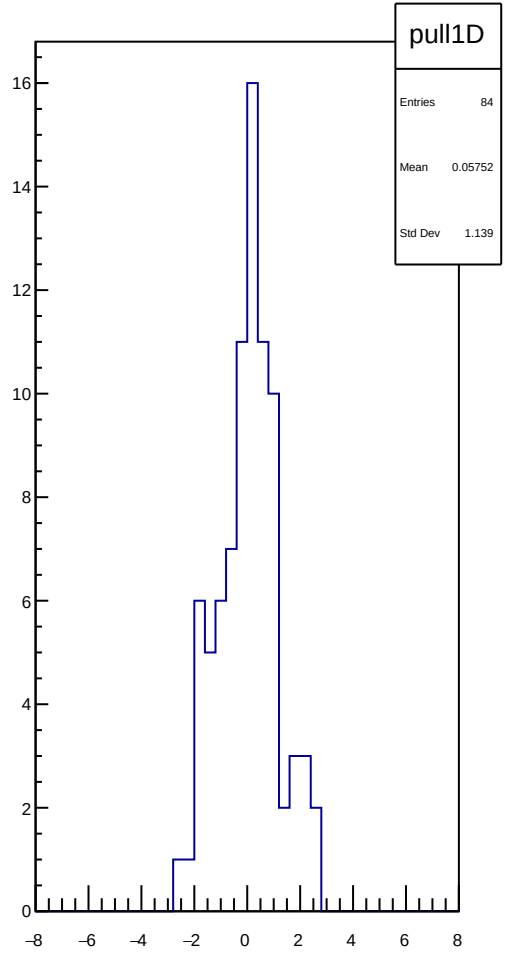

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.662e+05 / 83
p0 1.519e−10 ± 1.383e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

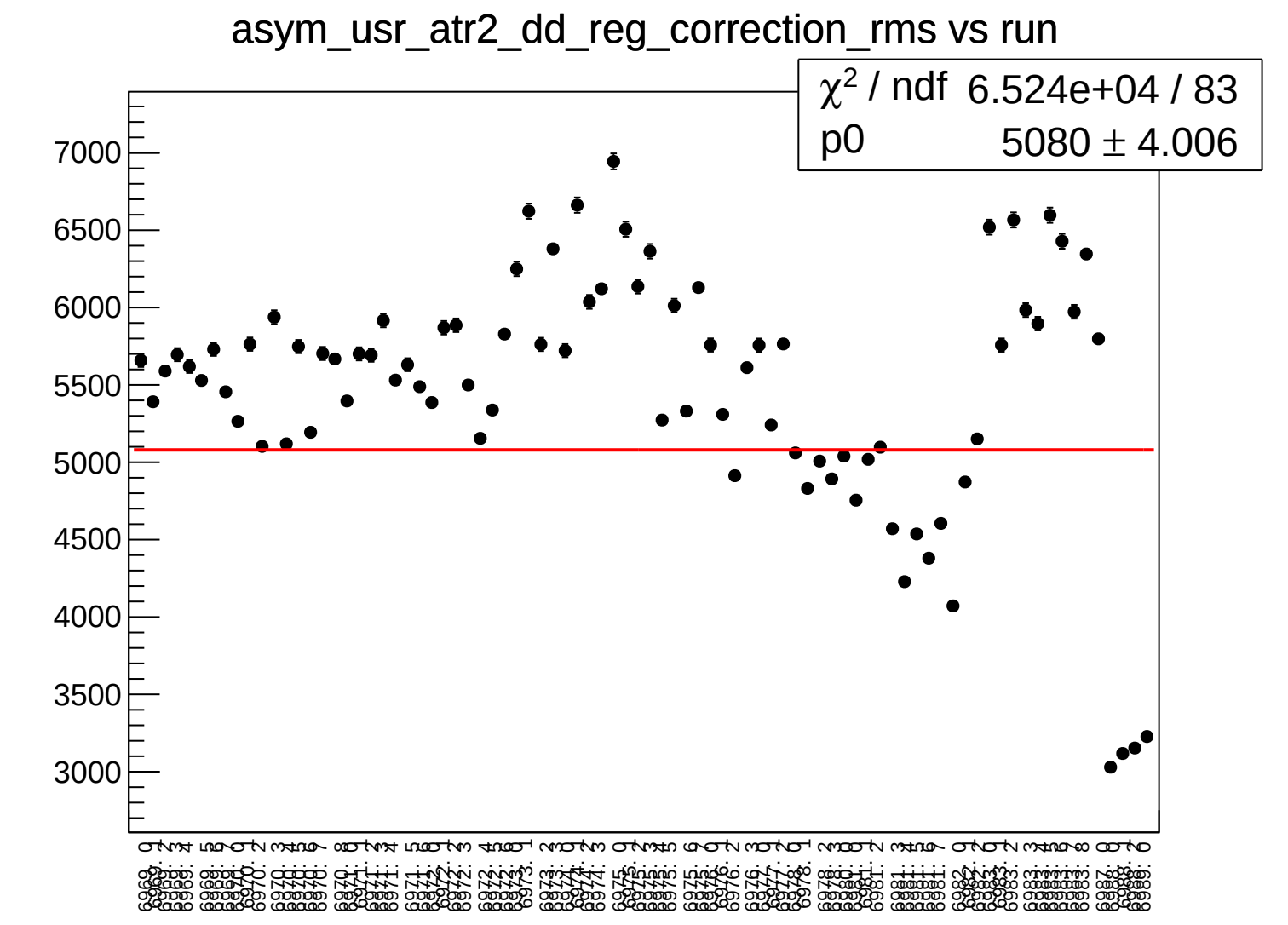

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 82.87 / 83
p0 −165.3 ± 1188
pull
Entries 84
Mean 301.1
Std Dev 0

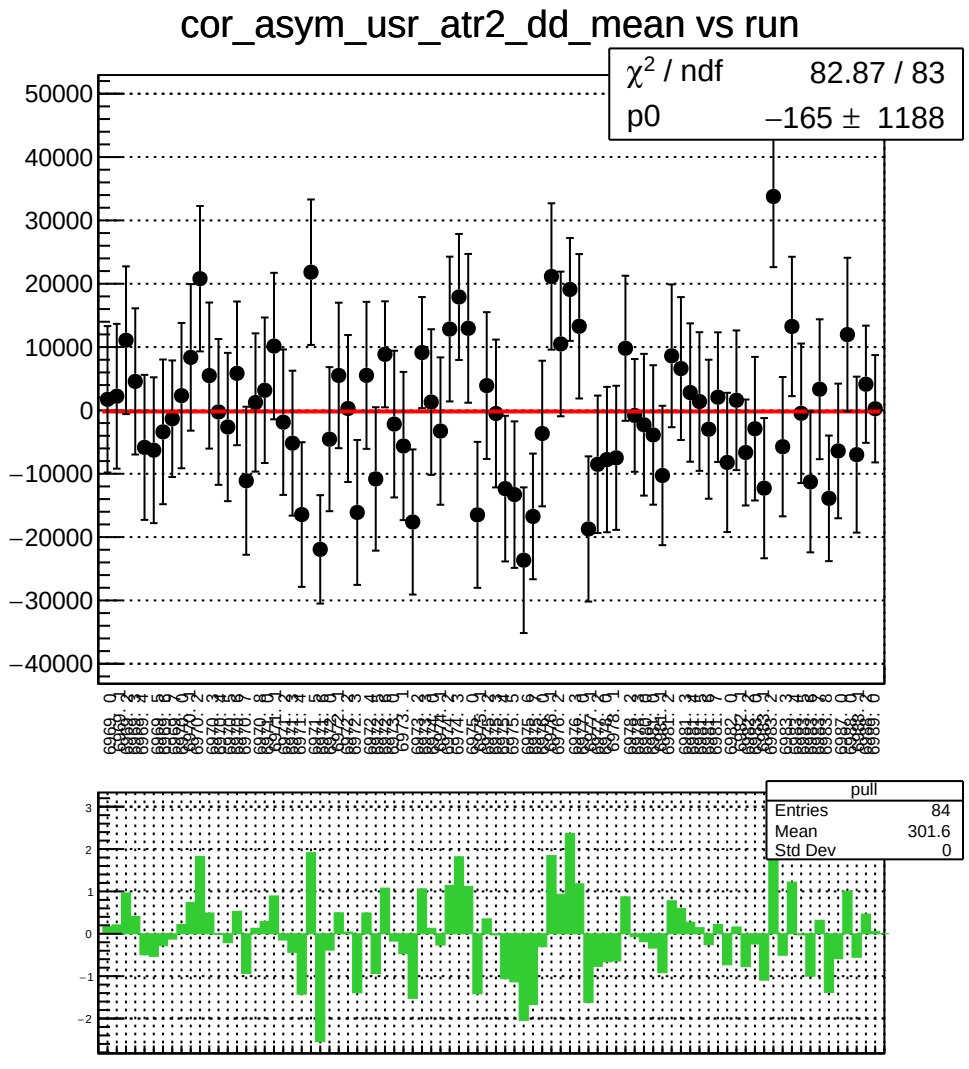

pull1D
Entries 84
Mean −0.003799
Std Dev 0.9933

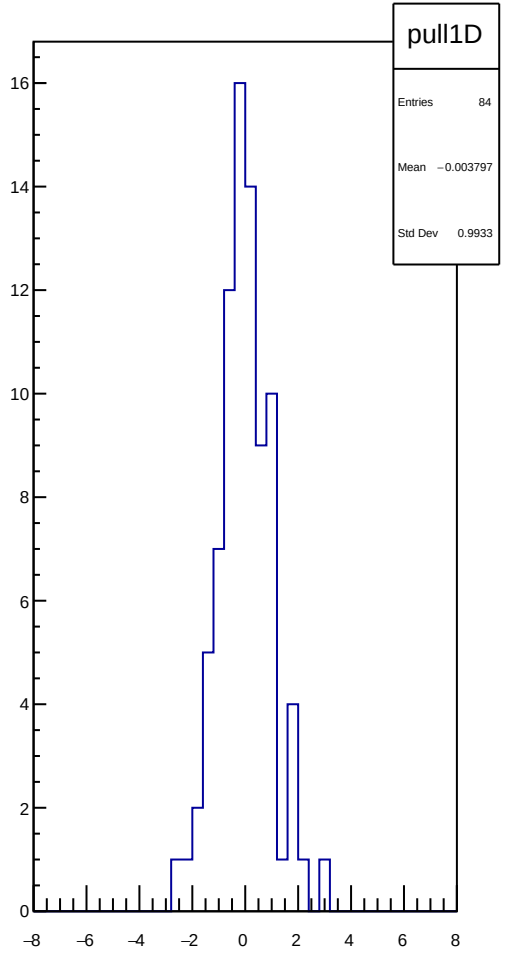

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 1104 / 83
p0 1086 ± 0.84
1180
1160
1140
1120
1100
1080
1060
1040
1020


asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 109.3 / 83
p0 6625 ± 5665
200
100
0
−100
−200
pull
Entries 84
Mean −34.12
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.05752
Std Dev 1.139
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 6.524e+04 / 83
p0 5080 ± 4.006
7000
6500
6000
5500
5000
4500
4000
3500
3000


cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 82.87 / 83
p0 −165 ± 1188
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 301.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.003797
Std Dev 0.9933
16
14
12
10
8
6
4
2
0
−8
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−4
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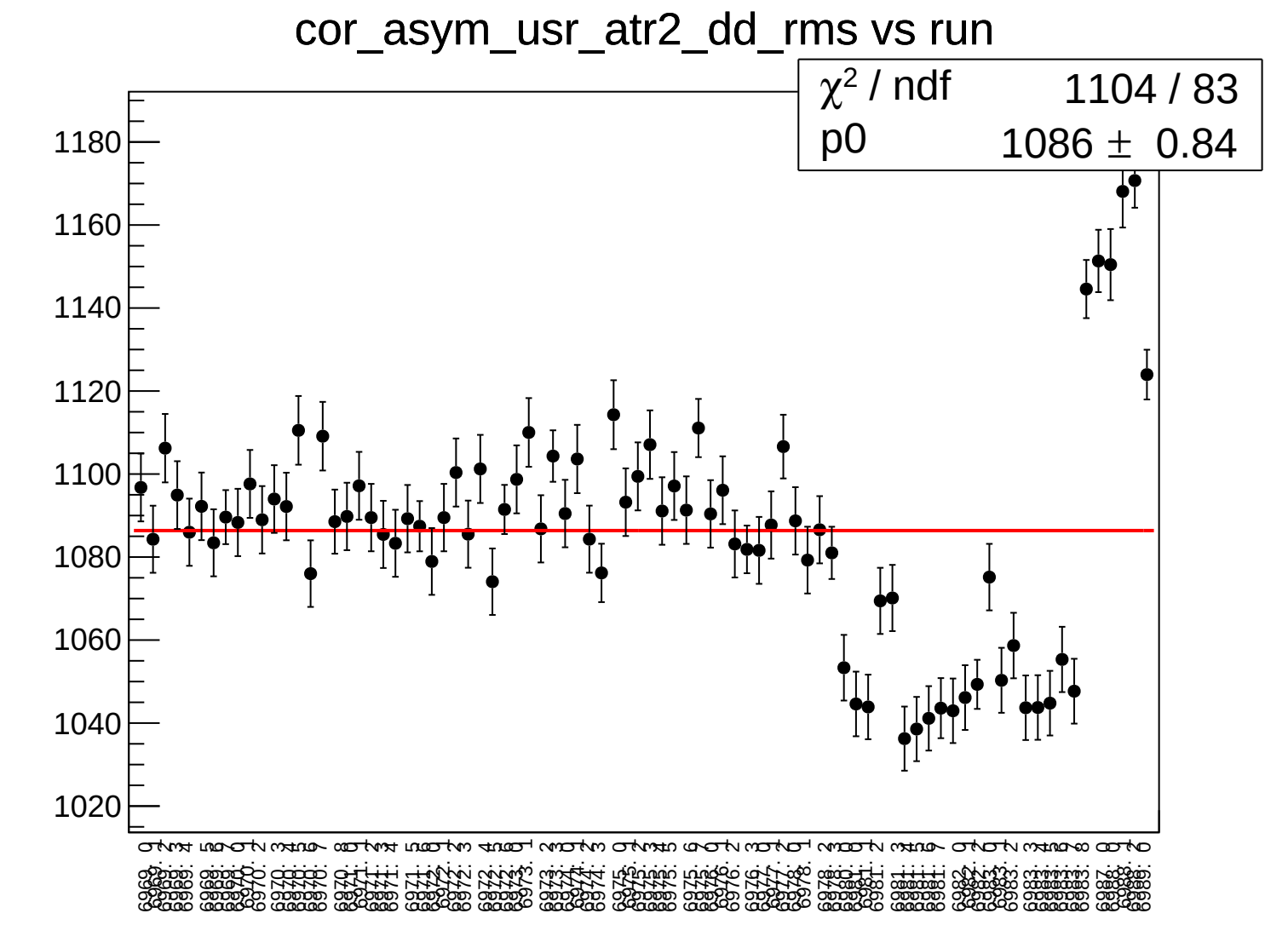
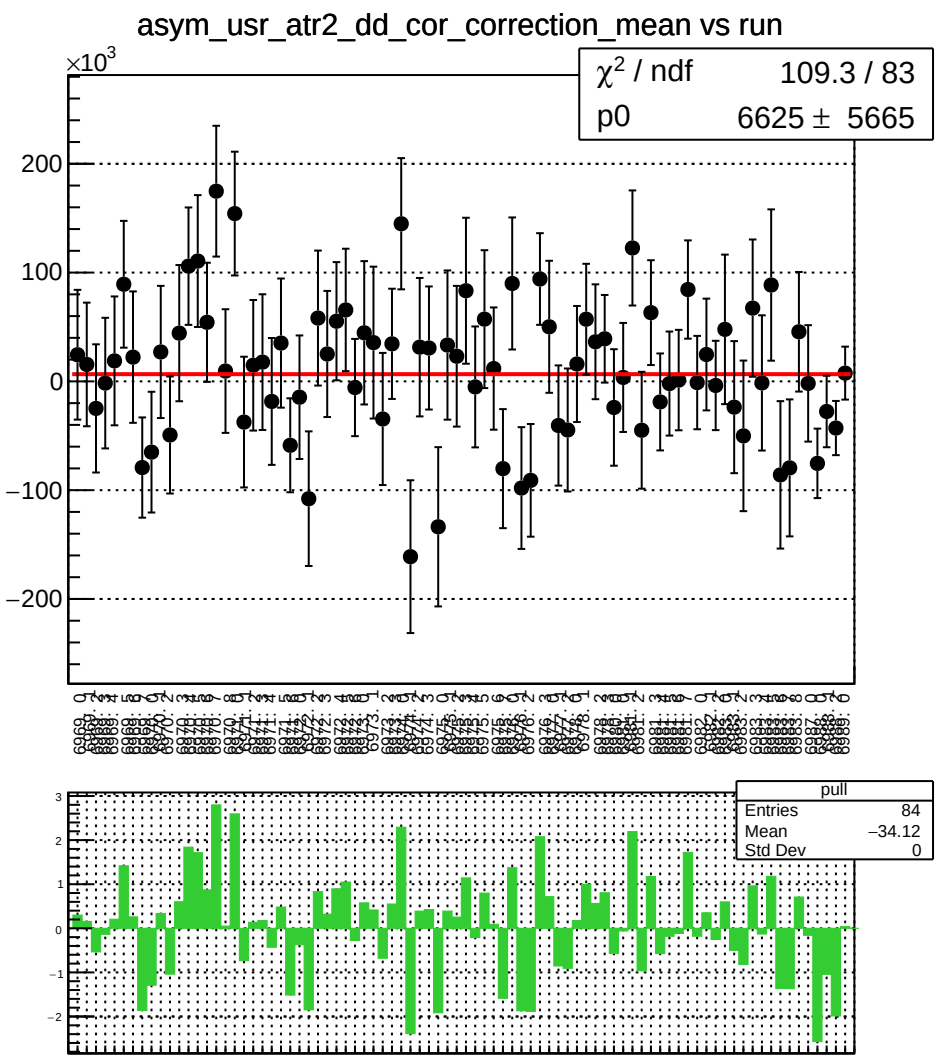
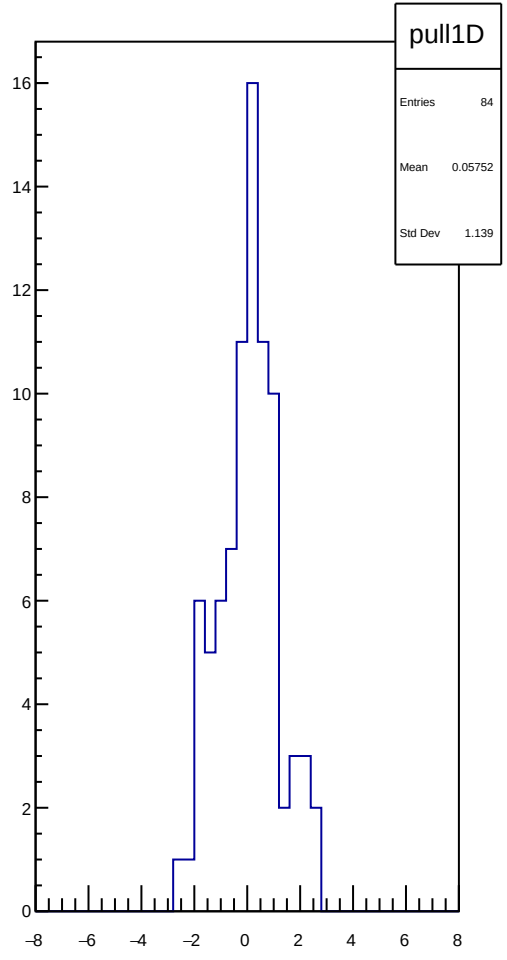
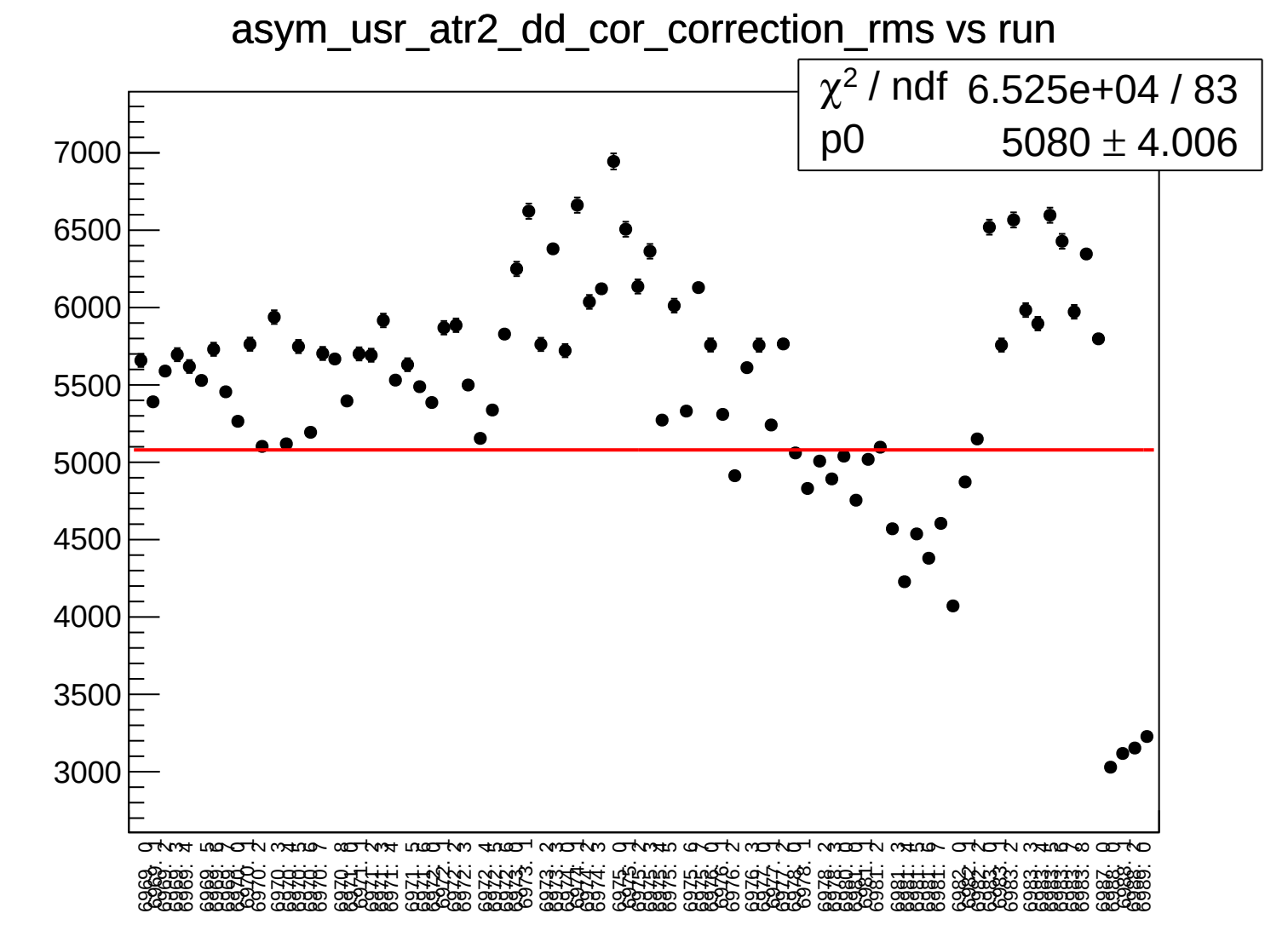
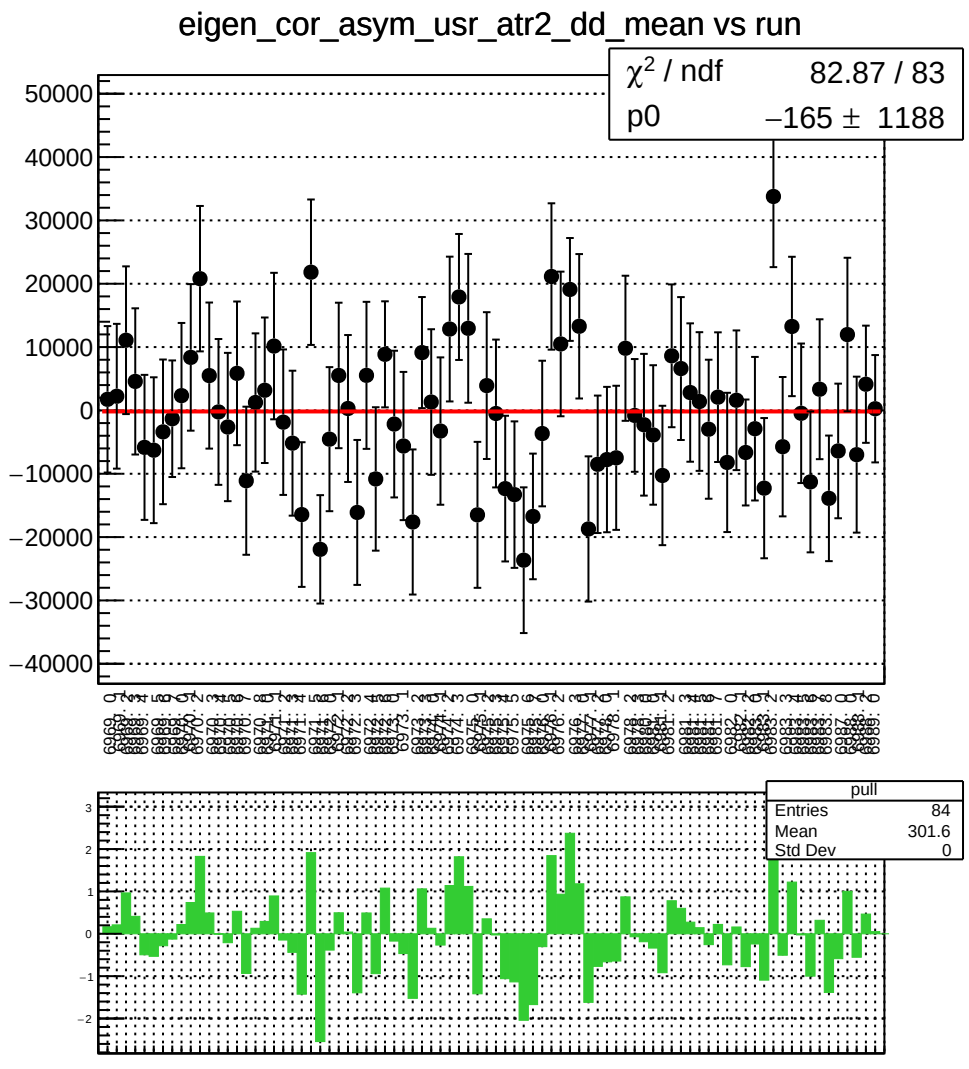
0
2
4
6
8

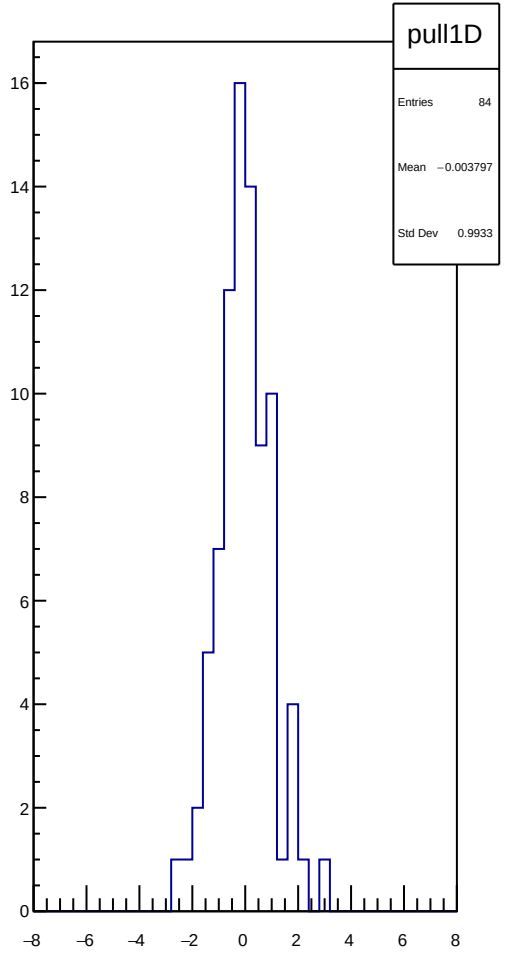

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1104 / 83
p0 1086 ± 0.84
1180
1160
1140
1120
1100
1080
1060
1040
1020

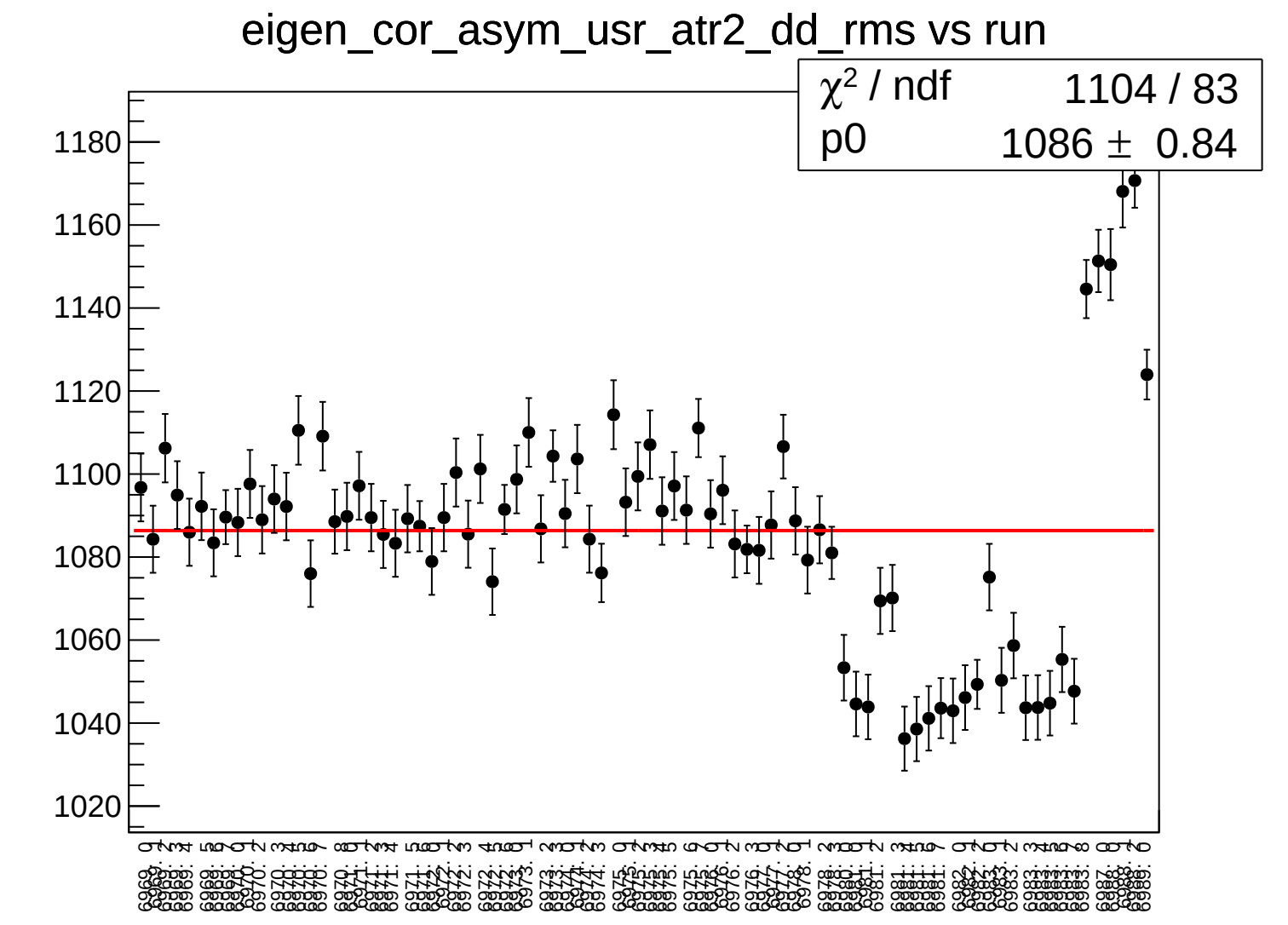

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 109.3 / 83
p0 6625 ± 5665
200
100
0
−100
−200
pull
Entries 84
Mean −34.12
Std Dev 0
3
2
1
0
−1
−2

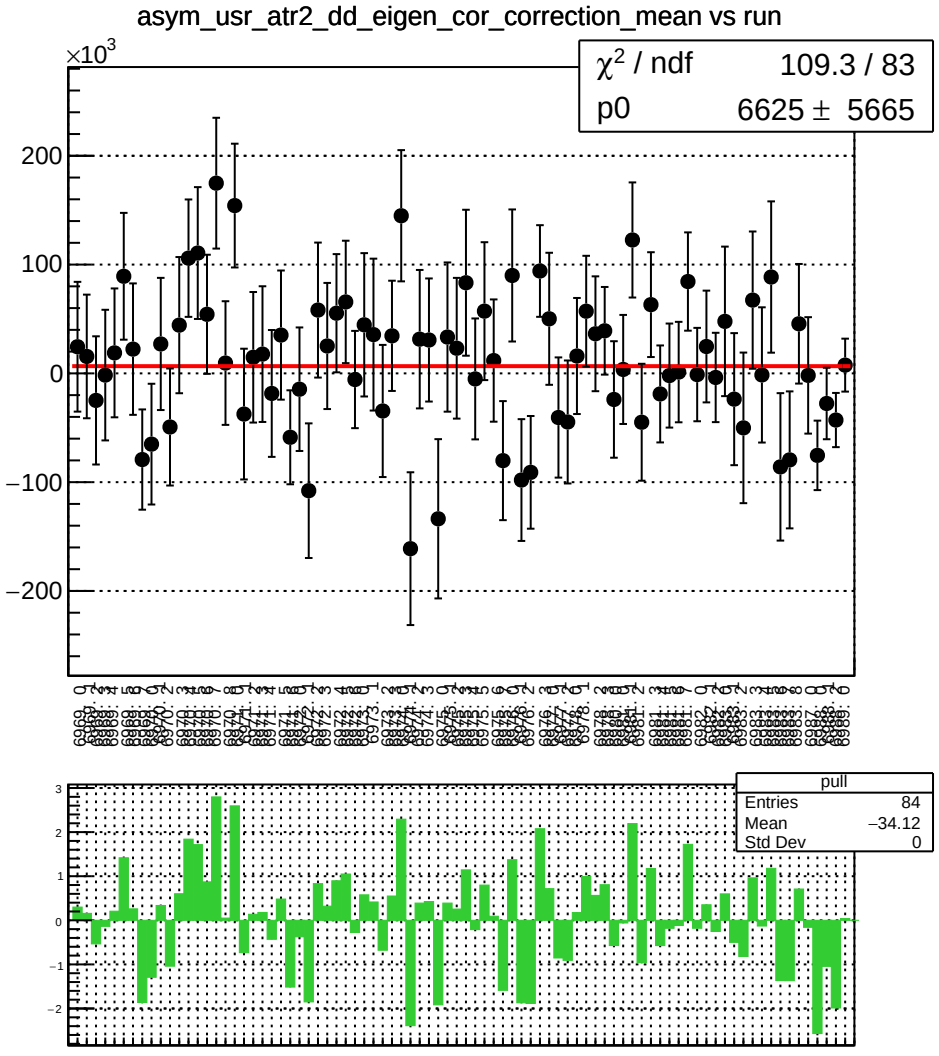

pull1D
Entries 84
Mean 0.05752
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

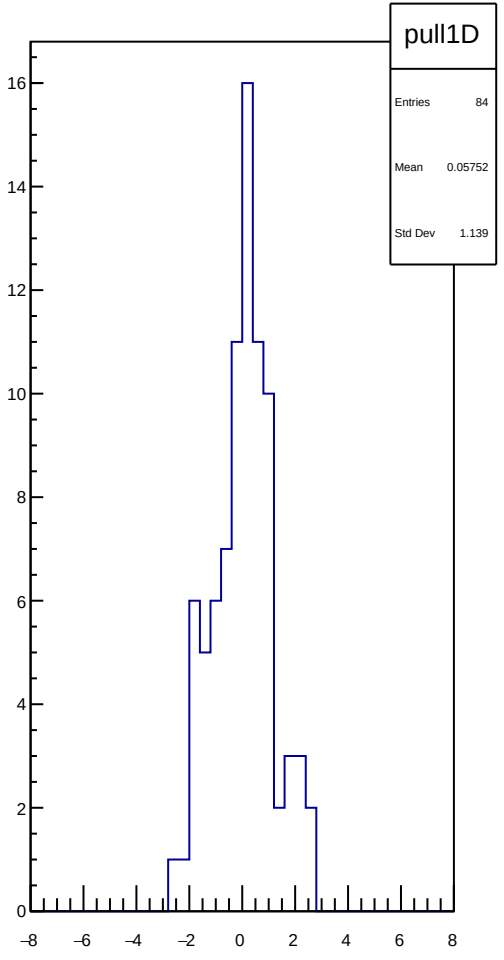

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 6.525e+04 / 83
p0 5080 ± 4.006
7000
6500
6000
5500
5000
4500
4000
3500
3000


eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 82.87 / 83
p0 −165 ± 1188
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 301.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.003797
Std Dev 0.9933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1104 / 83
p0 1086 ± 0.84
1180
1160
1140
1120
1100
1080
1060
1040
1020


asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 109.3 / 83
p0 6625 ± 5665
200
100
0
−100
−200
pull
Entries 84
Mean −34.12
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.05752
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
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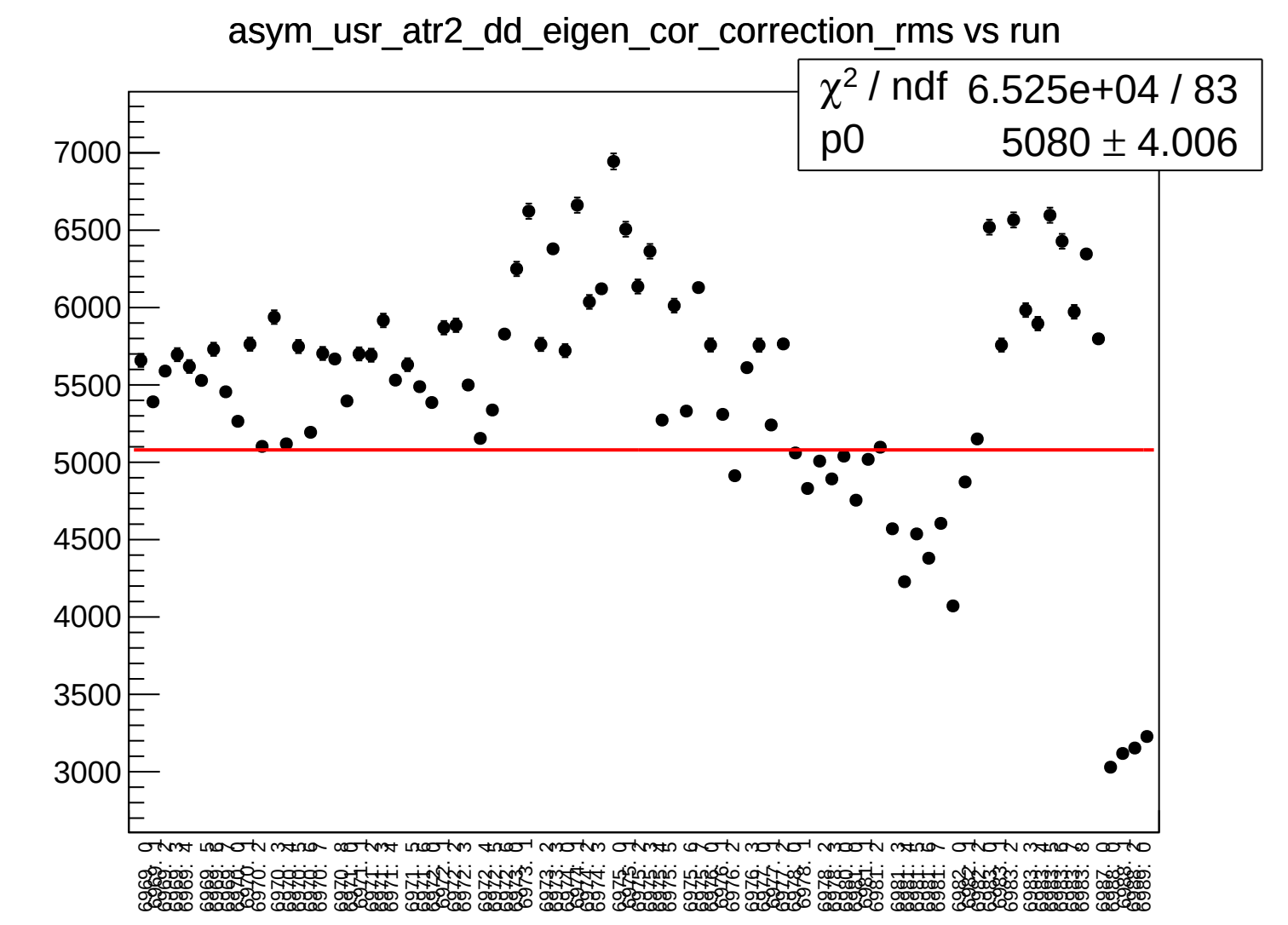
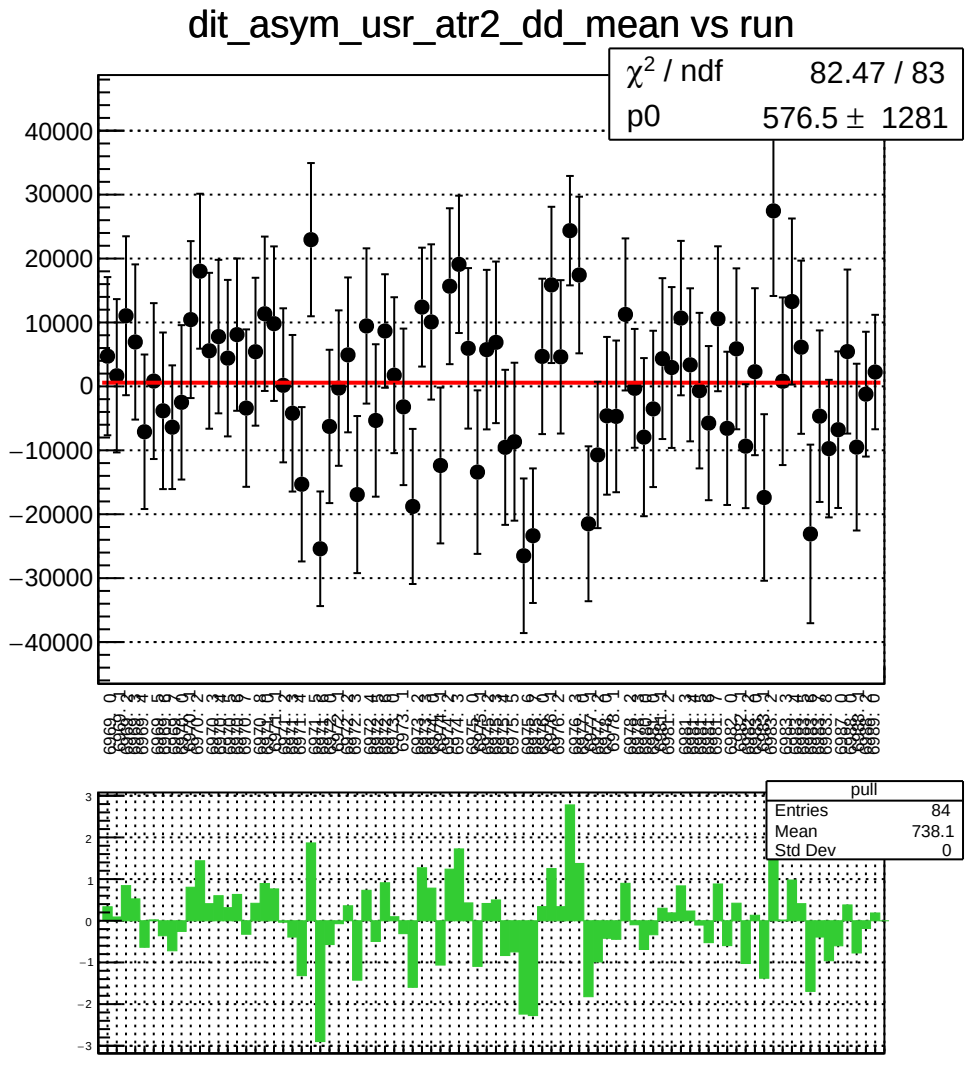
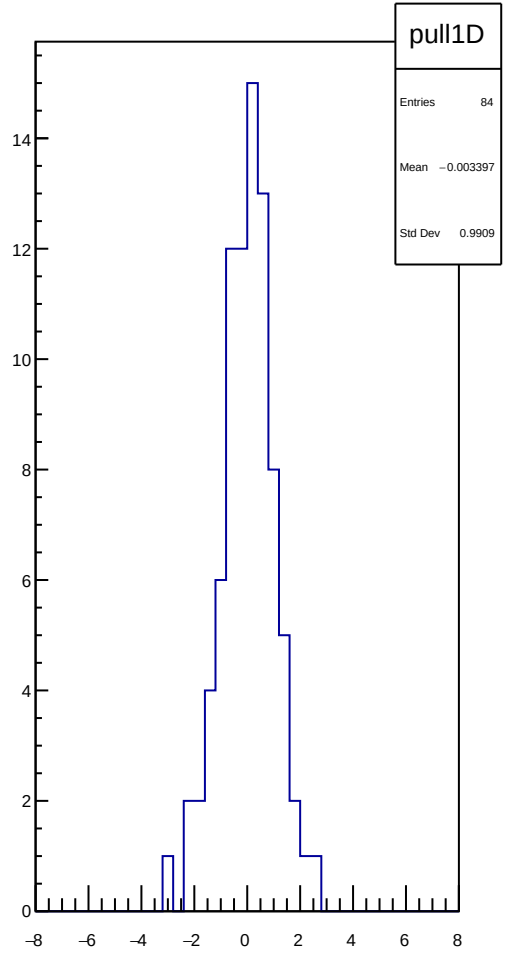
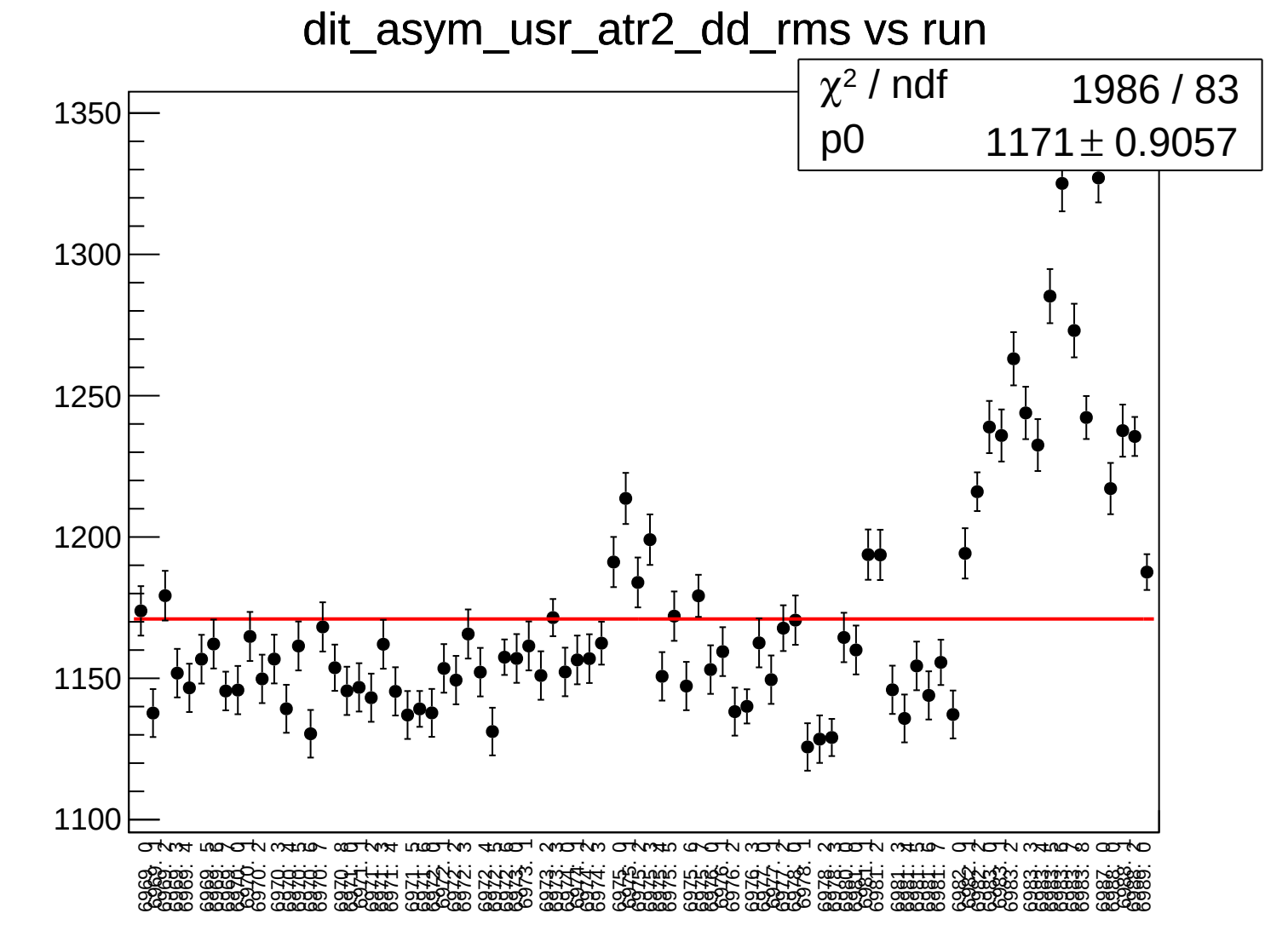
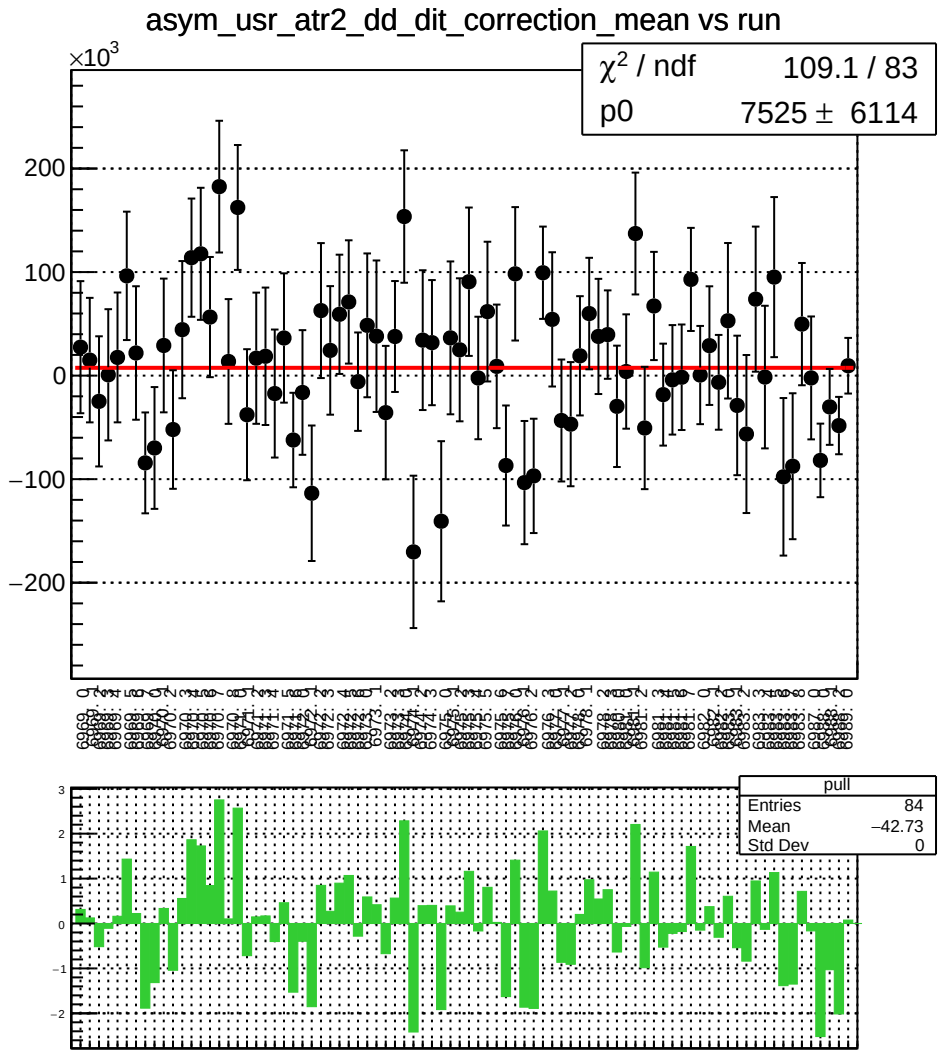
2
4
6
8

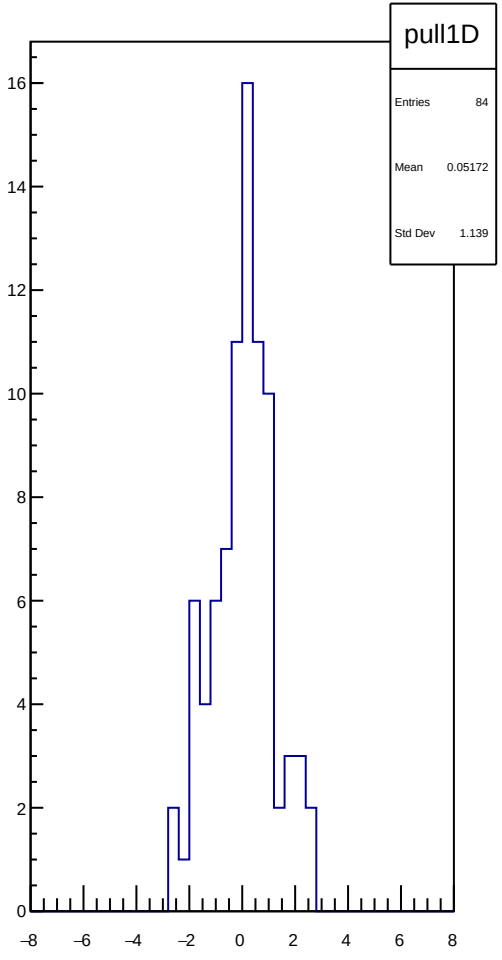

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.525e+04 / 83
p0 5080 ± 4.006
7000
6500
6000
5500
5000
4500
4000
3500
3000

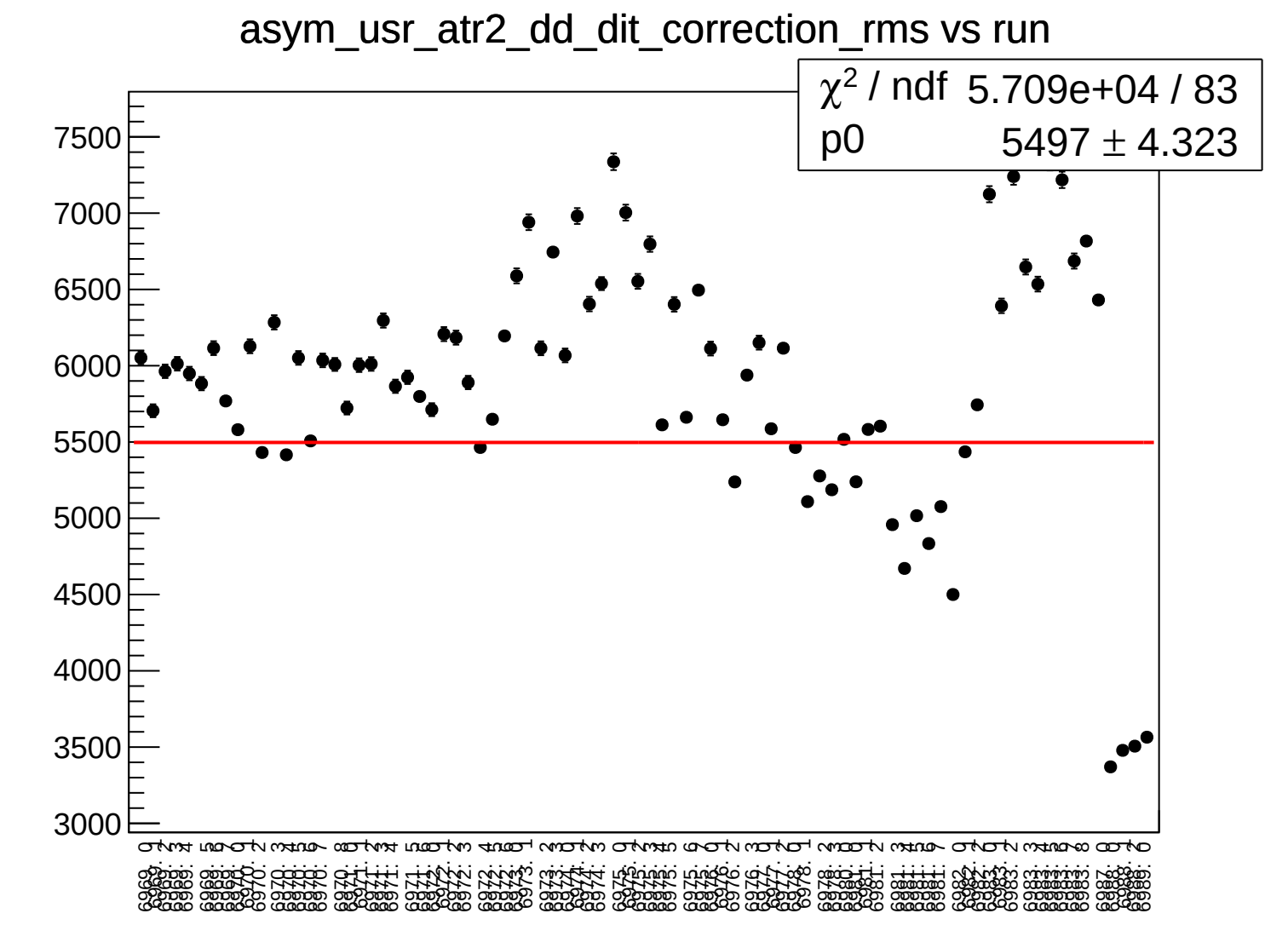

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 82.47 / 83
p0 576.5 ± 1281
pull
Entries 84
Mean 738.1
Std Dev 0

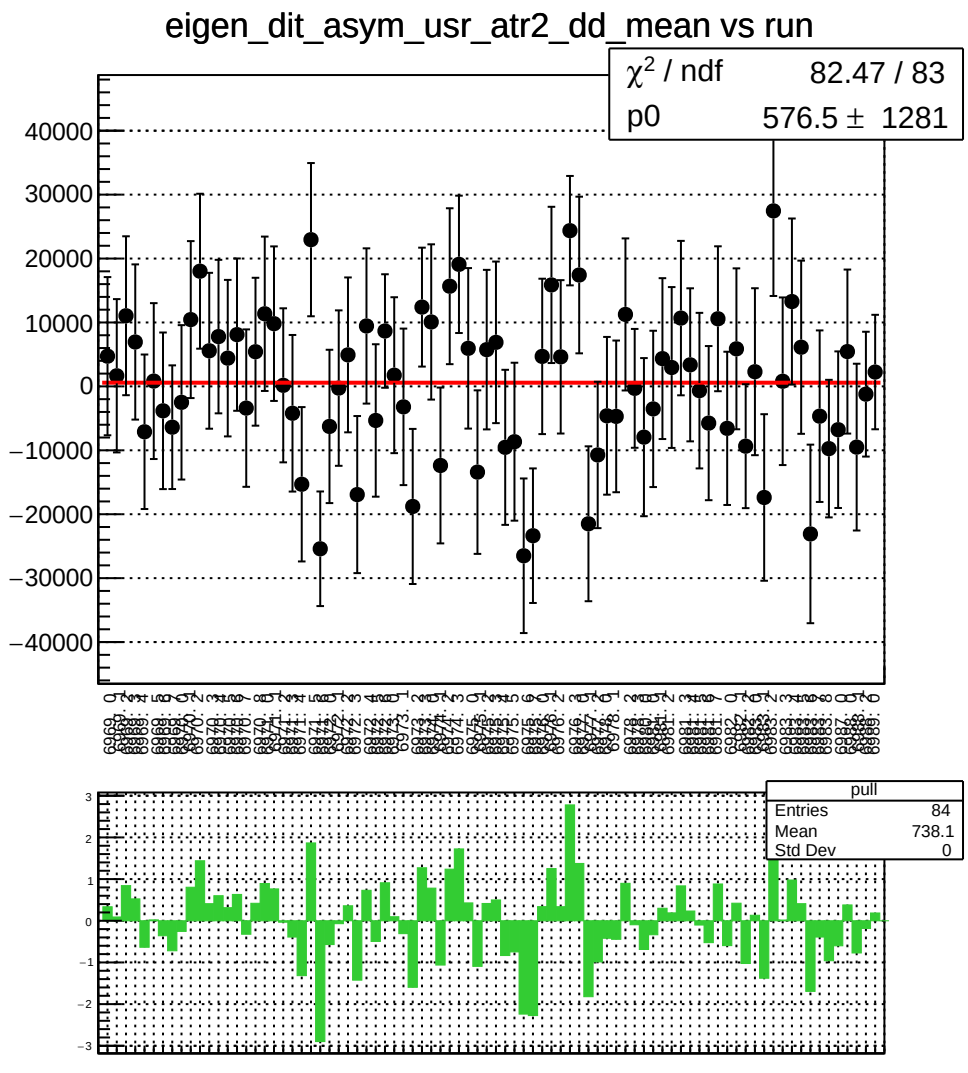

pull1D
Entries 84
Mean −0.003397
Std Dev 0.9909

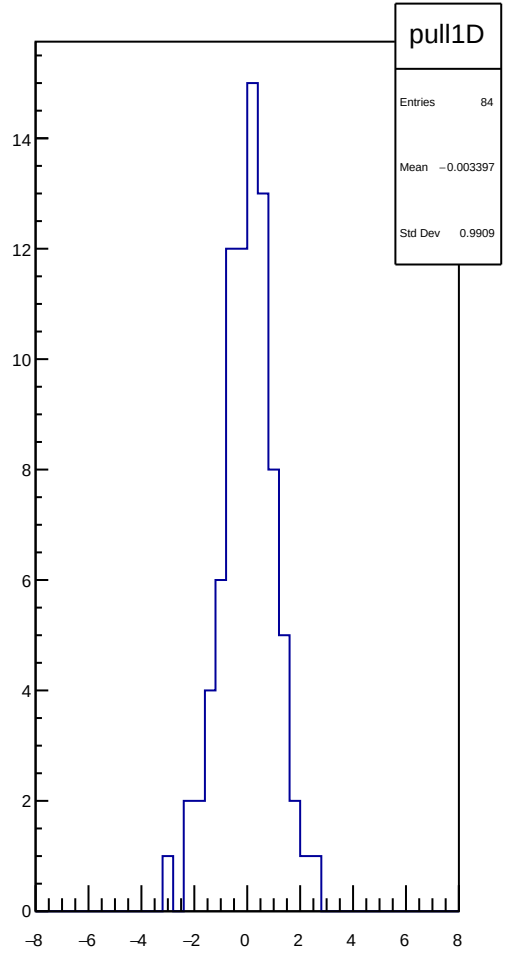

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1986 / 83
p0 1171 ± 0.9057
1350
1300
1250
1200
1150
1100

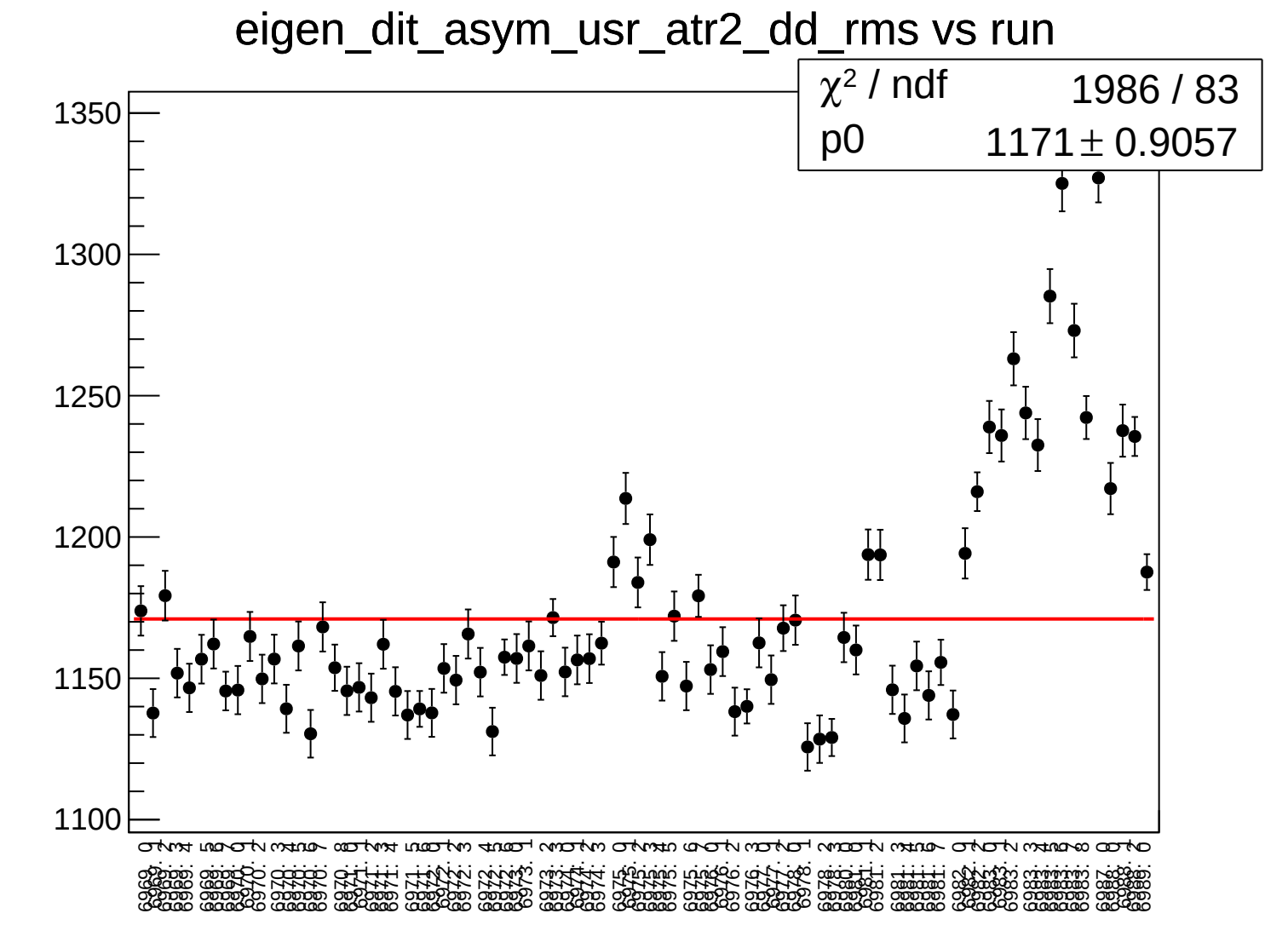

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 109.1 / 83
p0 7525 ± 6114
200
100
0
−100
−200
pull
Entries 84
Mean −42.73
Std Dev 0
3
2
1
0
−1
−2

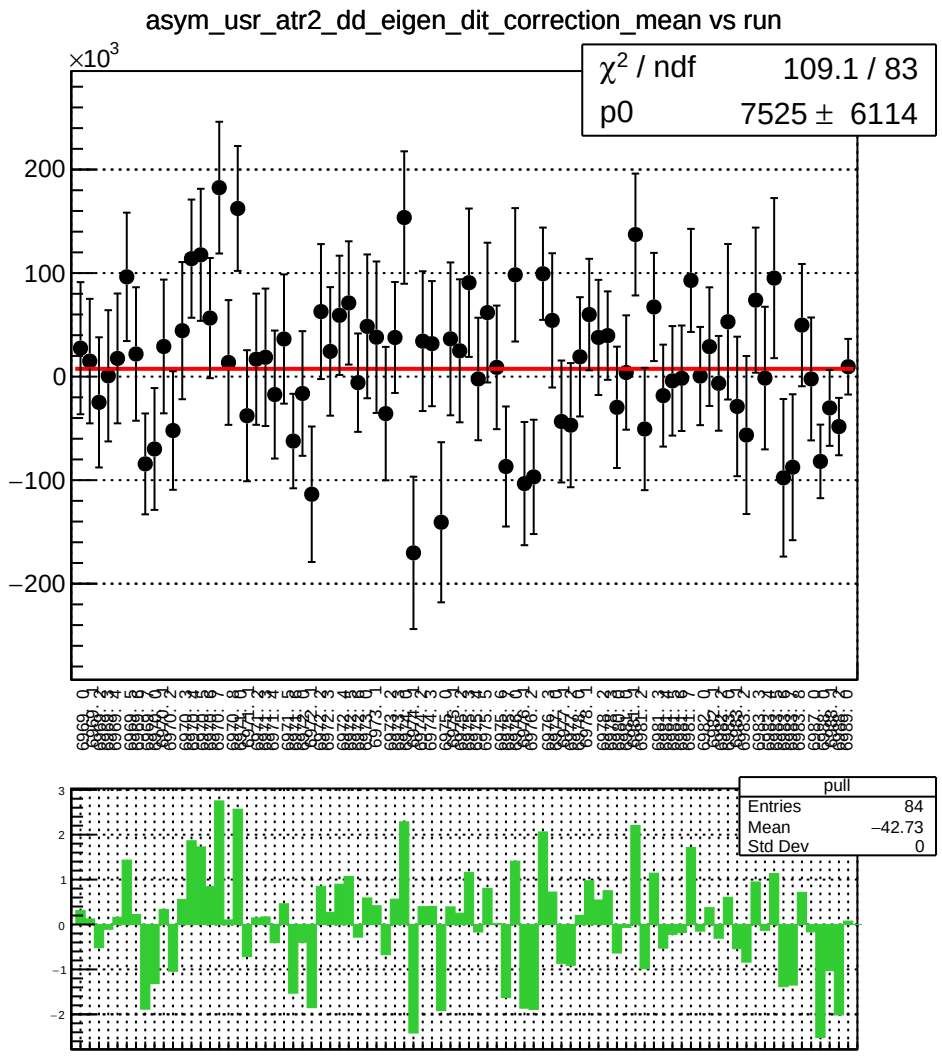

pull1D
Entries 84
Mean 0.05172
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

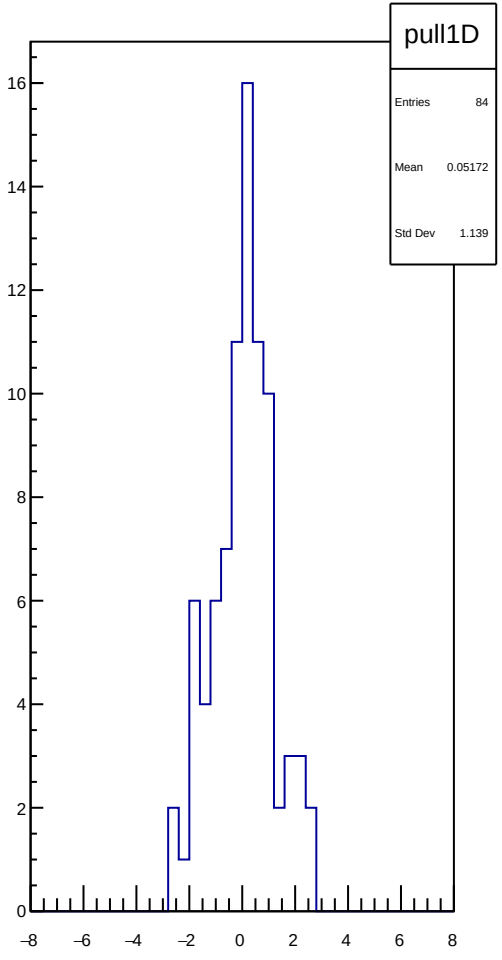

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 5.709e+04 / 83
p0 5497 ± 4.323
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000

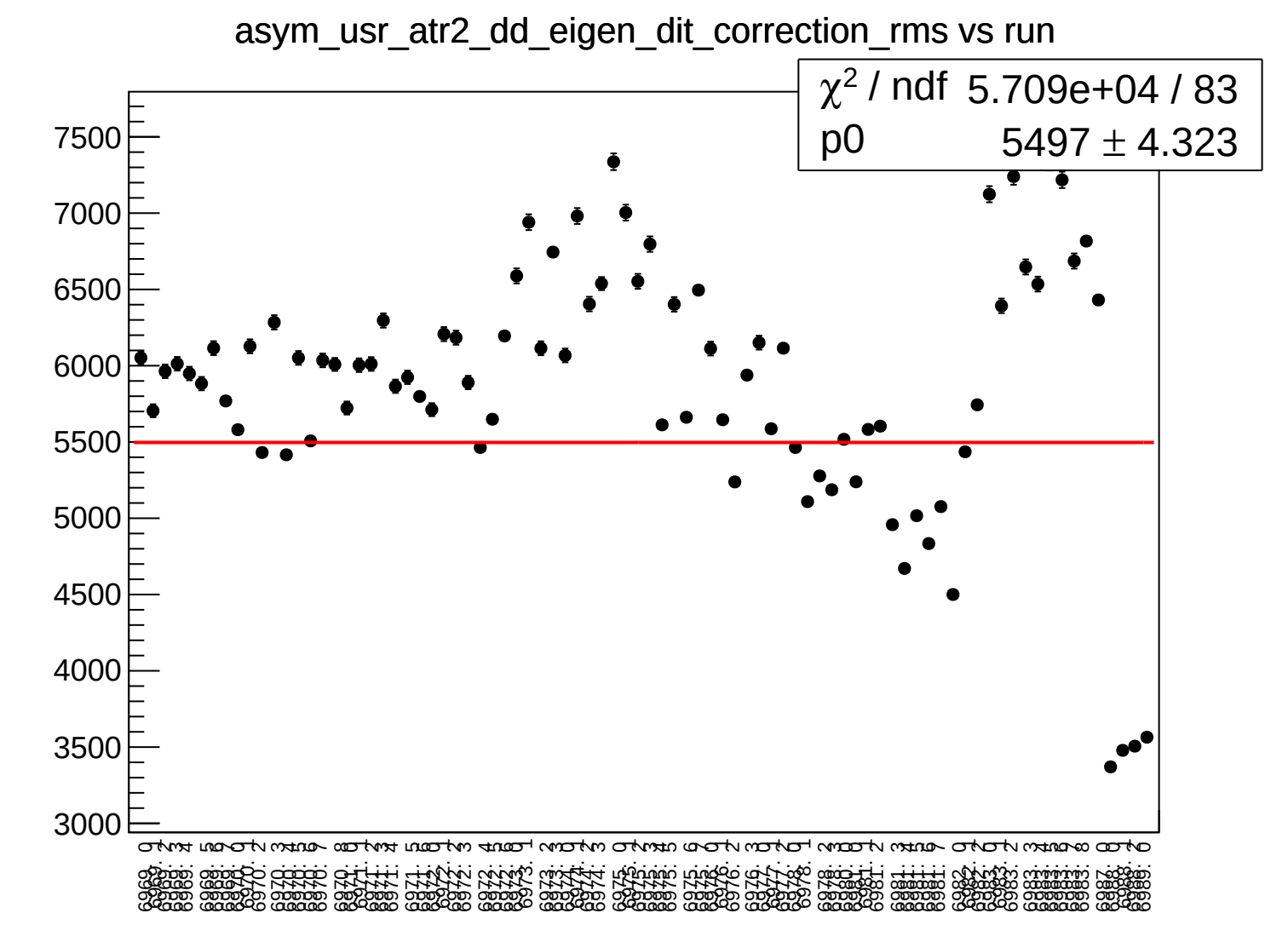

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 82.47 / 83
p0 576.5 ± 1281
pull
Entries 84
Mean 738.1
Std Dev 0

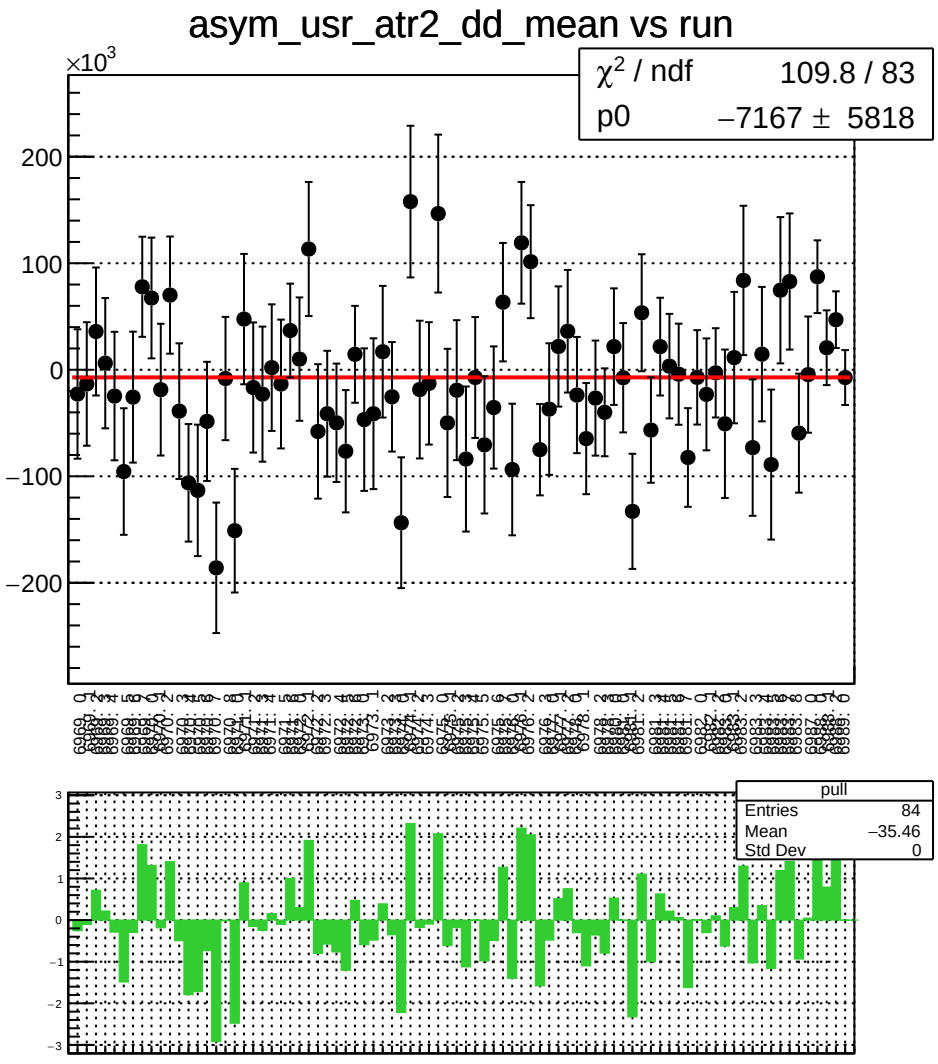

pull1D
Entries 84
Mean −0.003397
Std Dev 0.9909

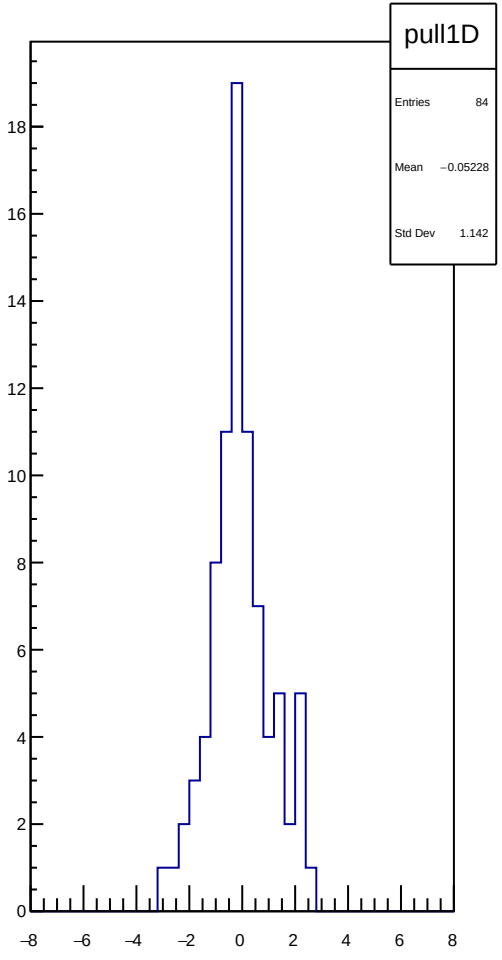

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1986 / 83
p0 1171 ± 0.9057
1350
1300
1250
1200
1150
1100

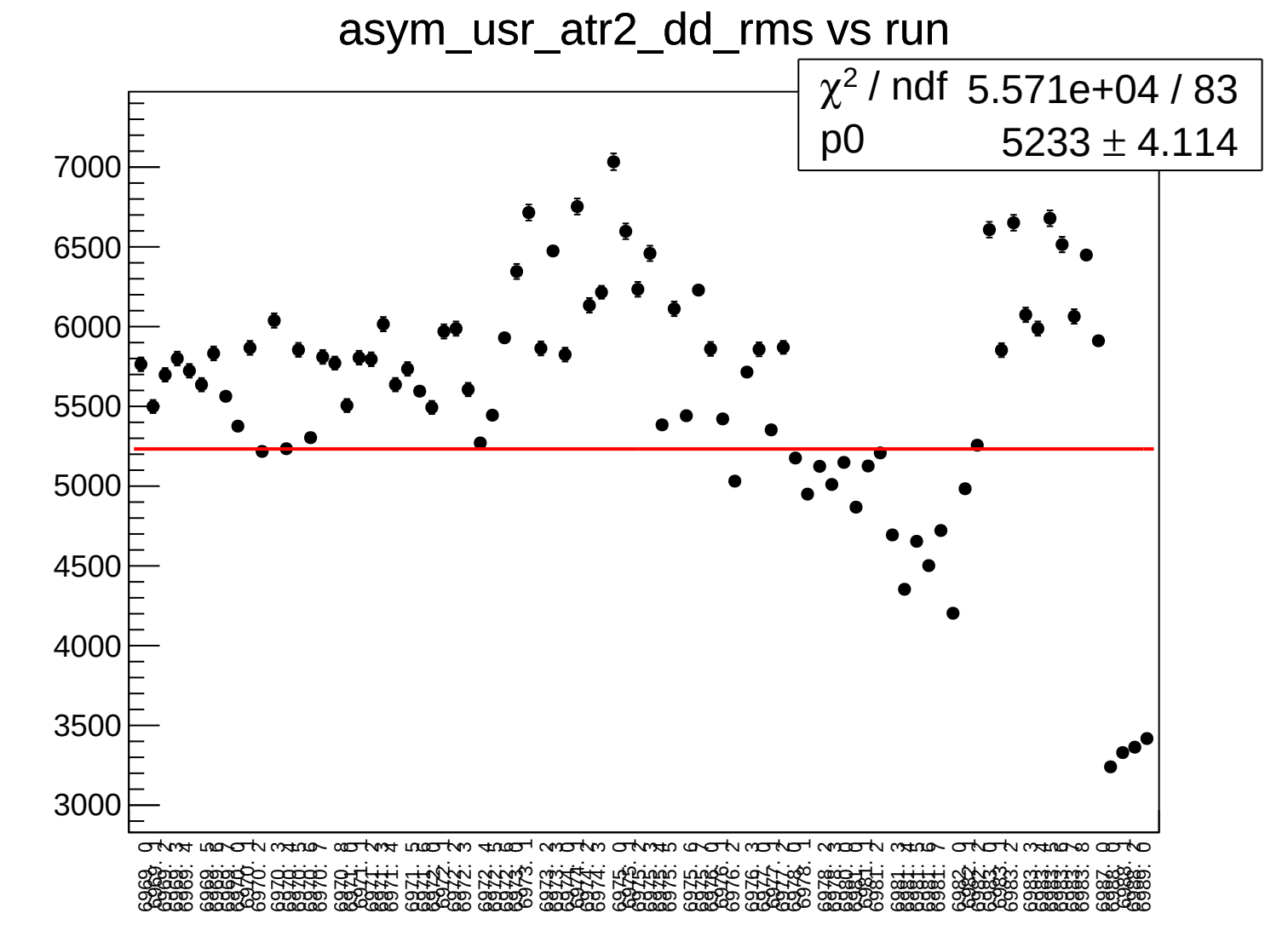

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 109.1 / 83
p0 7525 ± 6114
200
100
0
−100
−200
pull
Entries 84
Mean −42.73
Std Dev 0
3
2
1
0
−1
−2

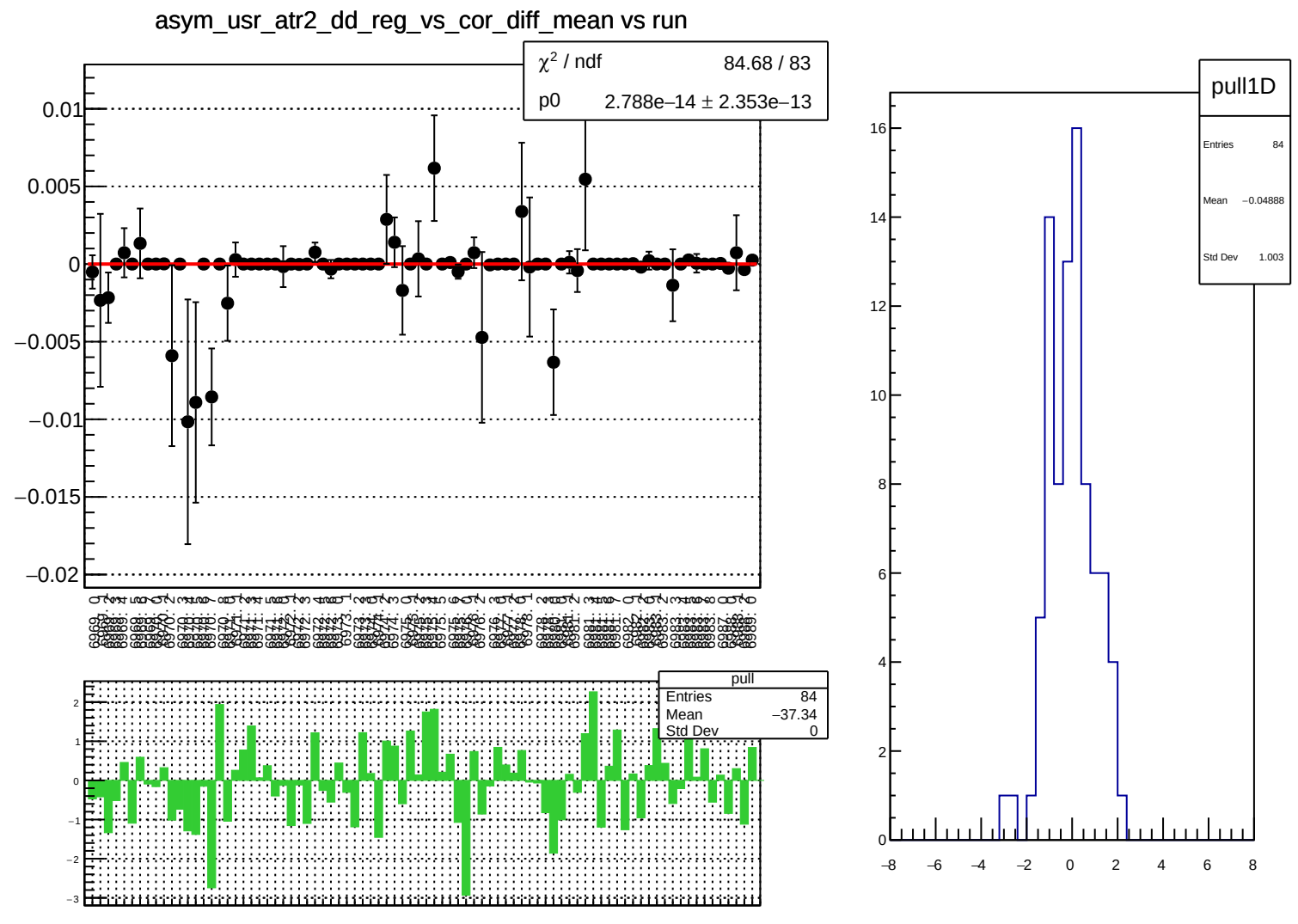

pull1D
Entries 84
Mean 0.05172
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

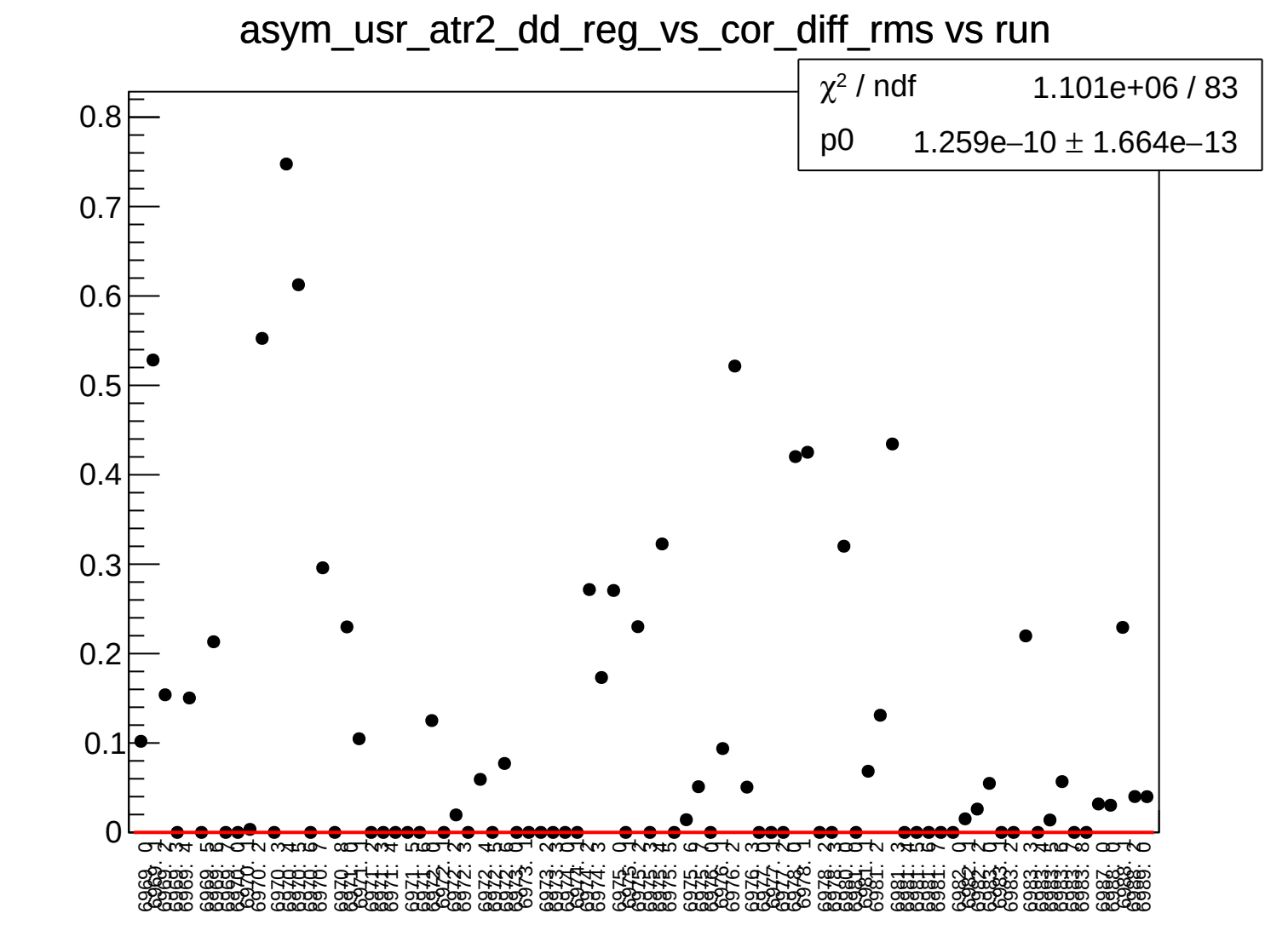

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.709e+04 / 83
p0 5497 ± 4.323
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000

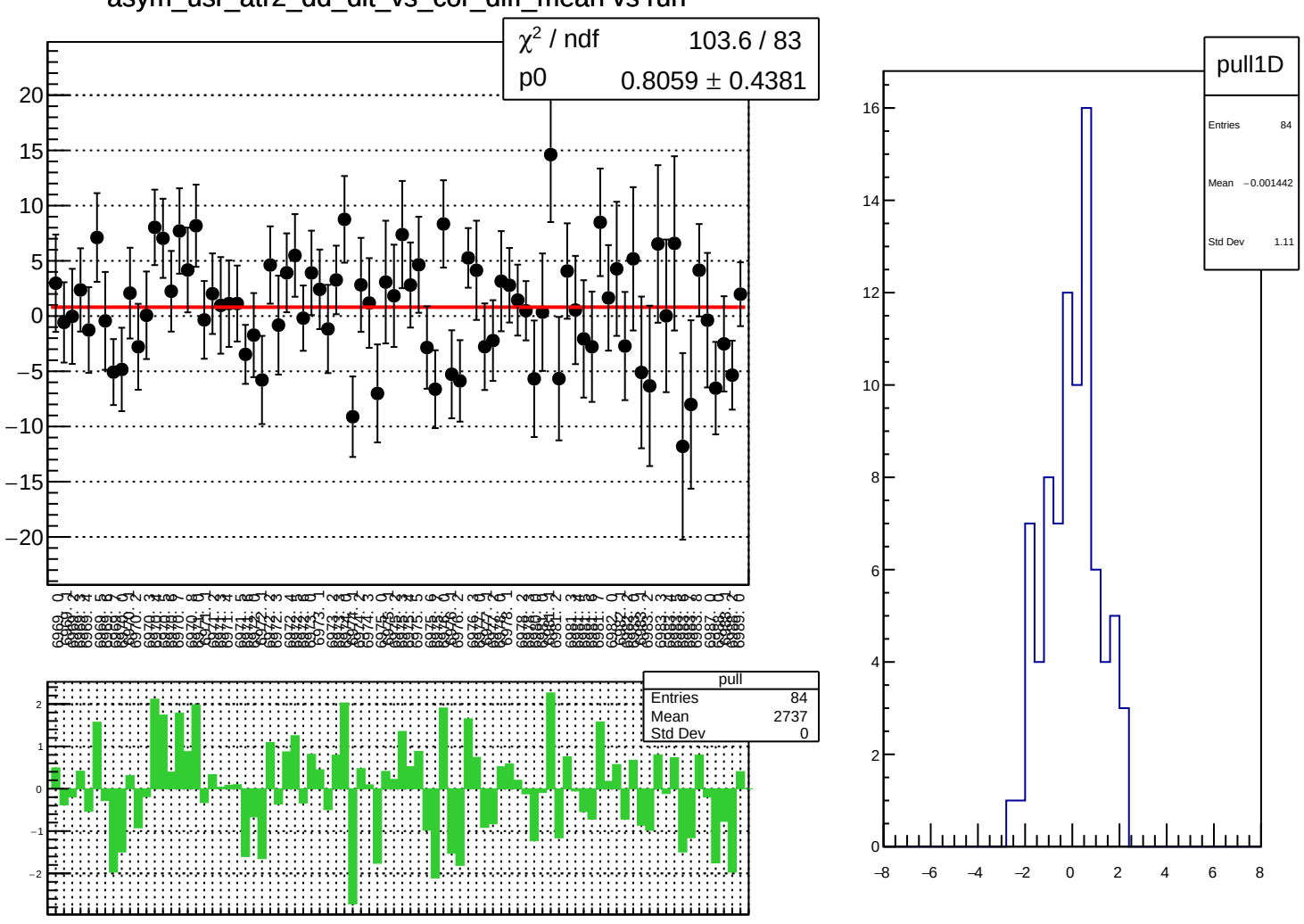

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 109.8 / 83
p0 −7167 ± 5818
200
100
0
−100
−200
pull
Entries 84
Mean −35.46
Std Dev 0
3
2
1
0
−1
−2
−3

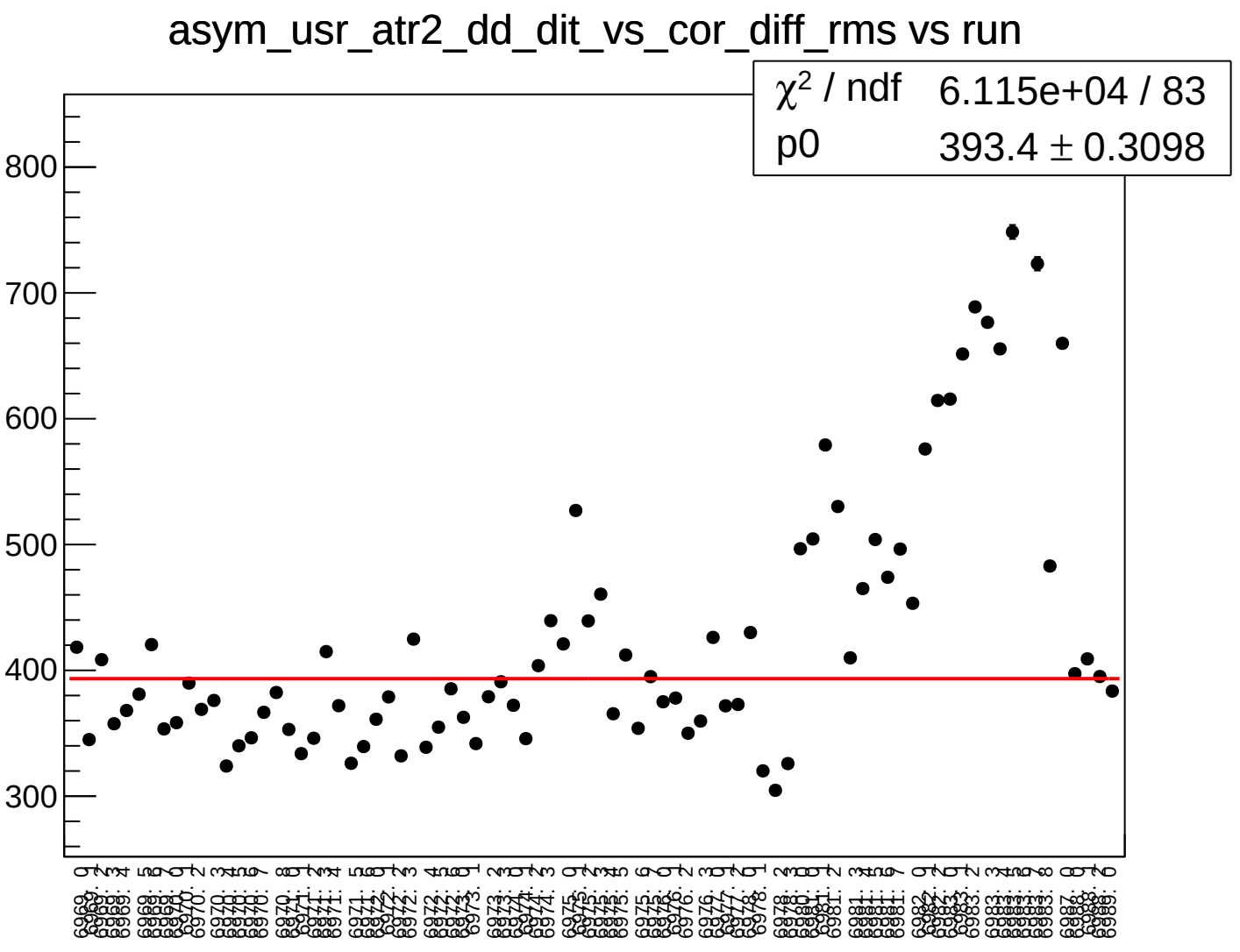

pull1D
Entries 84
Mean −0.05228
Std Dev 1.142
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

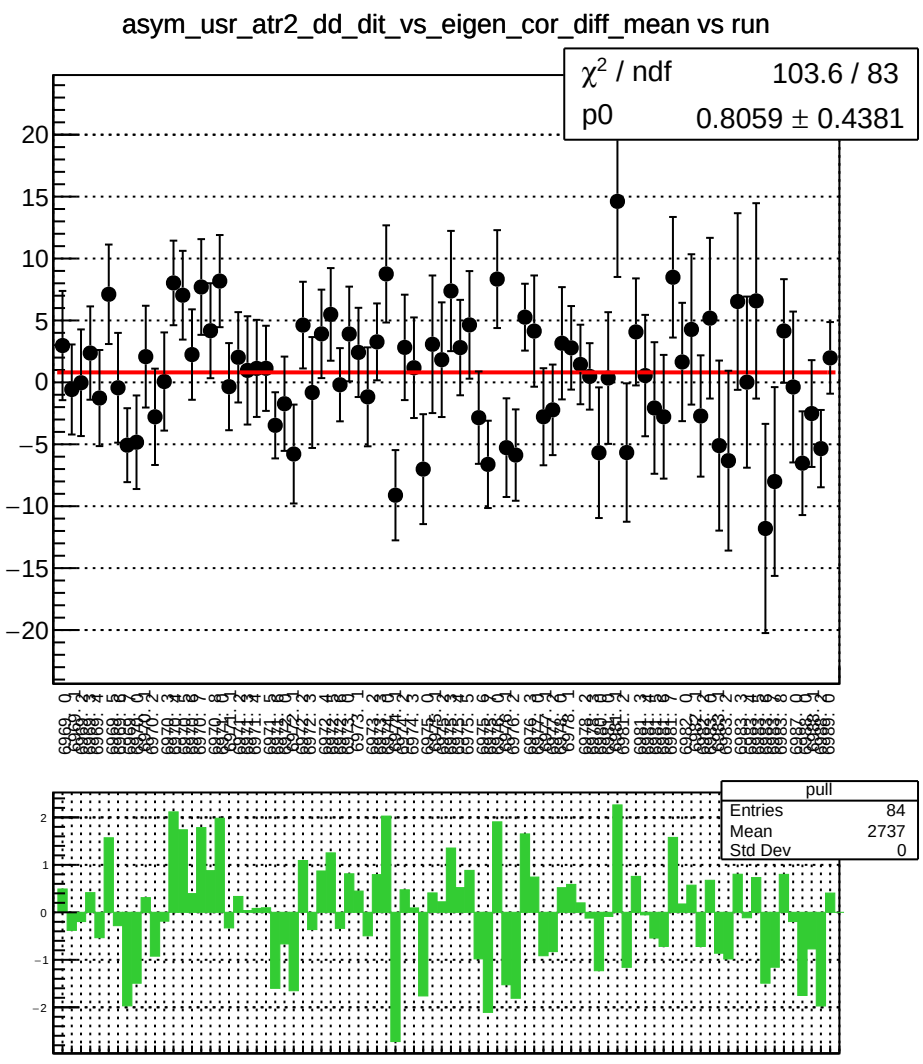

asym_usr_atr2_dd_rms vs run
χ² / ndf 5.571e+04 / 83
p0 5233 ± 4.114
7000
6500
6000
5500
5000
4500
4000
3500
3000

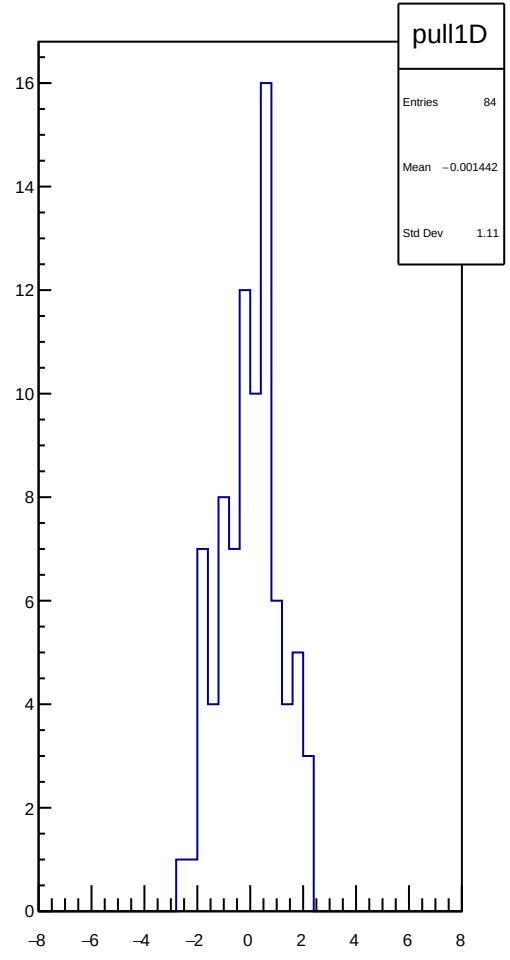

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.68 / 83
p0 2.788e−14 ± 2.353e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 84
Mean −37.34
Std Dev 0
pull1D
Entries 84
Mean −0.04888
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

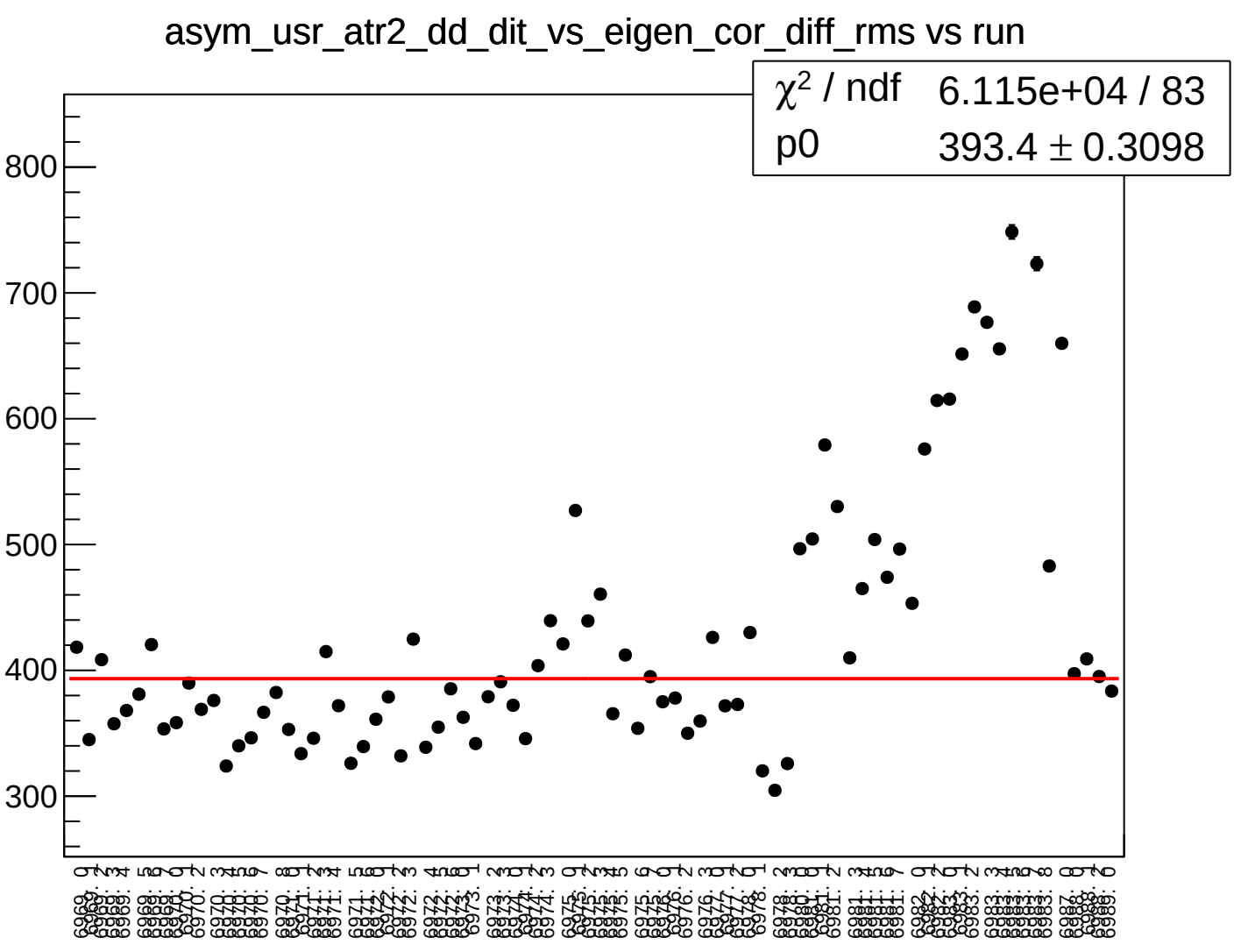

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.101e+06 / 83
p0 1.259e−10 ± 1.664e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

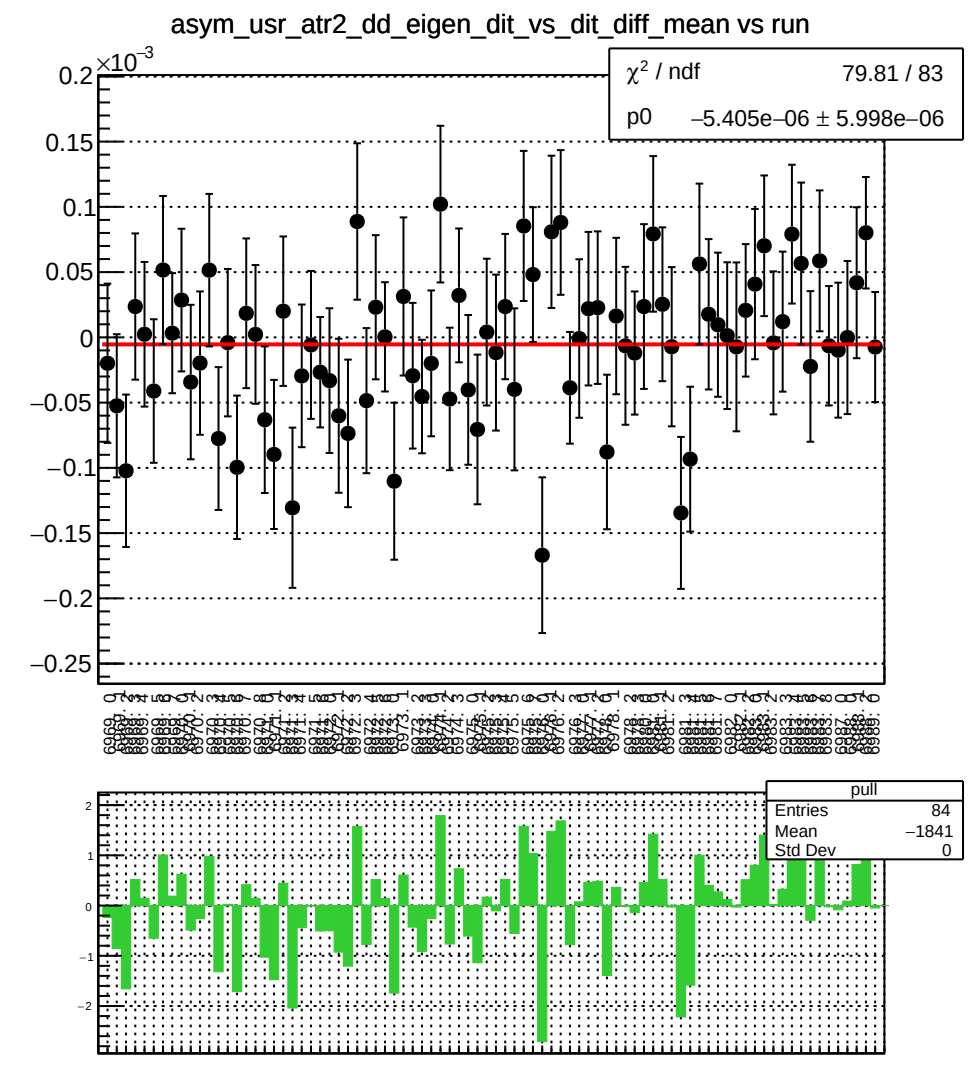

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 83
p0 0.8059 ± 0.4381
pull
Entries 84
Mean 2737
Std Dev 0
pull1D
Entries 84
Mean −0.001442
Std Dev 1.11

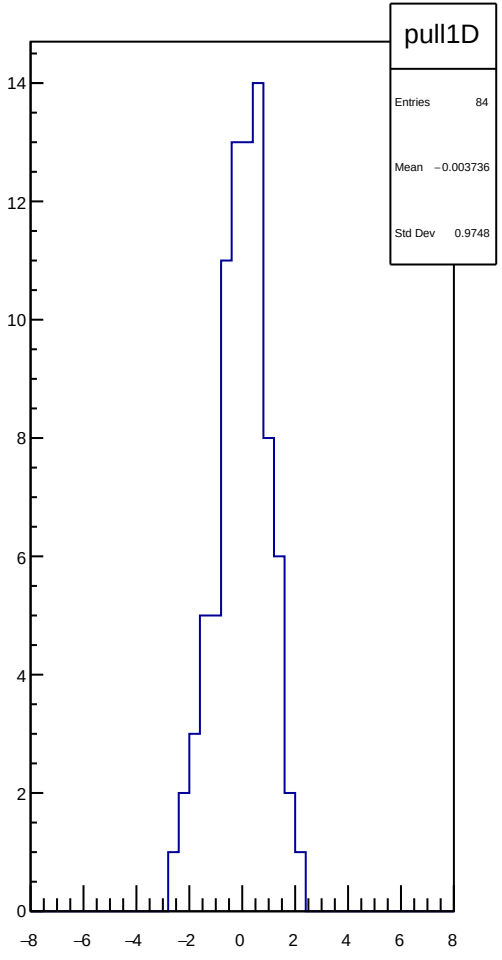

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.115e+04 / 83
p0 393.4 ± 0.3098
800
700
600
500
400
300

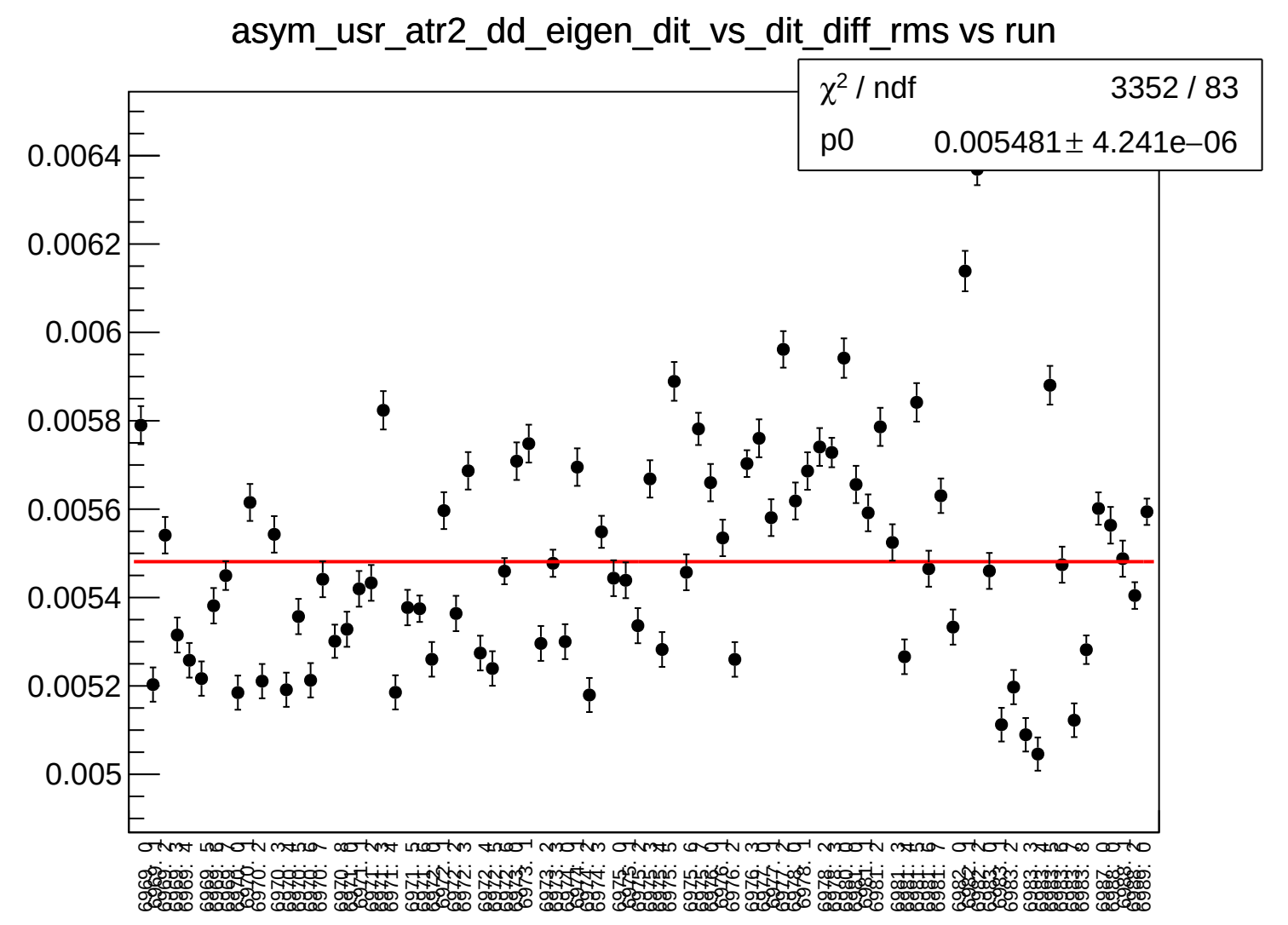

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 83
p0 0.8059 ± 0.4381
pull
Entries 84
Mean 2737
Std Dev 0

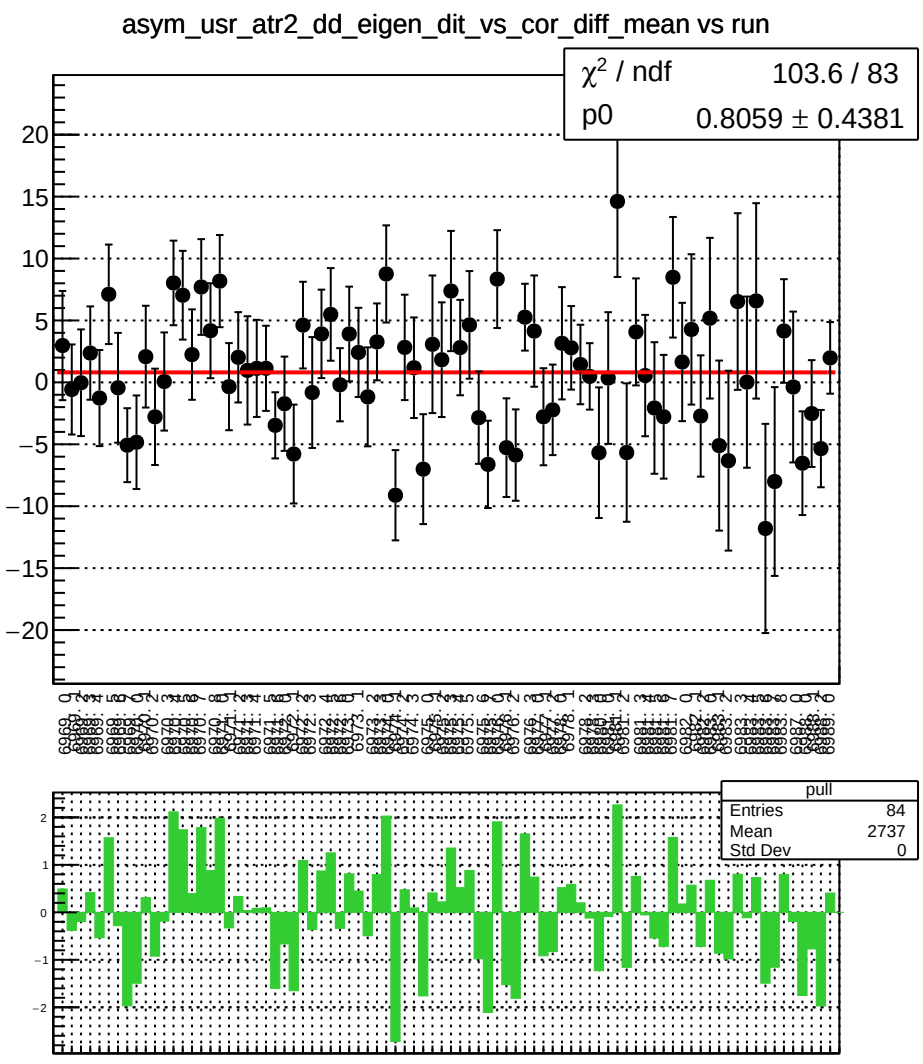

pull1D
Entries 84
Mean −0.001442
Std Dev 1.11

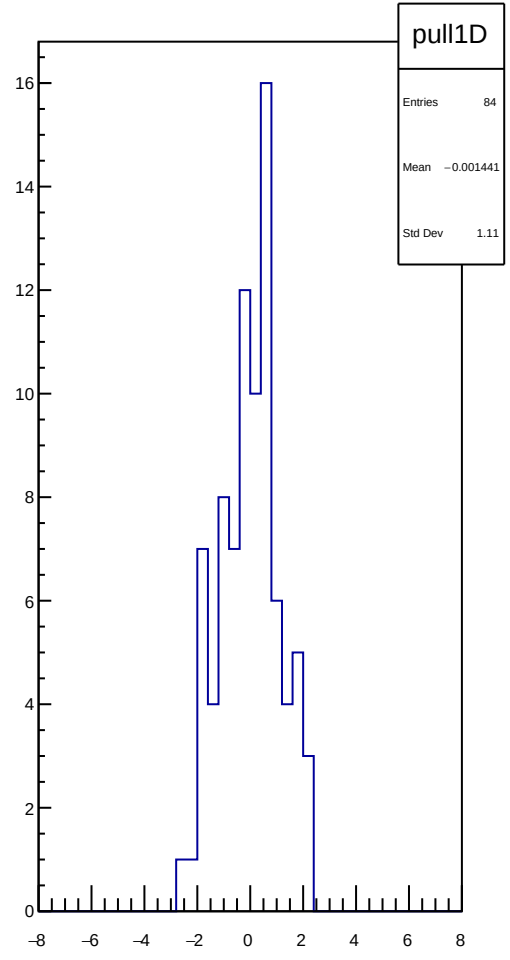

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.115e+04 / 83
p0 393.4 ± 0.3098
800
700
600
500
400
300

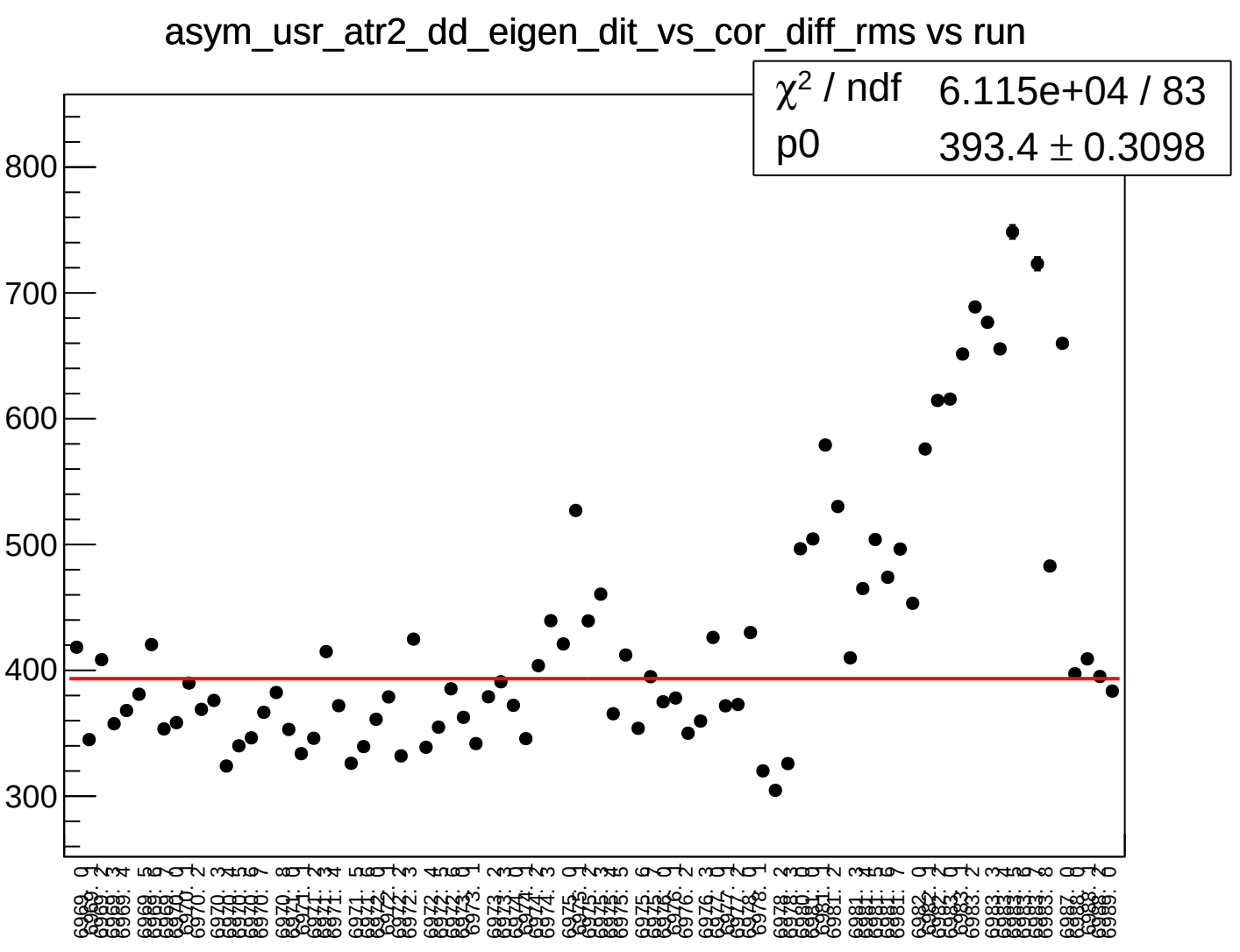

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.81 / 83
p0 −5.405e−06 ± 5.998e−06
pull
Entries 84
Mean −1841
Std Dev 0

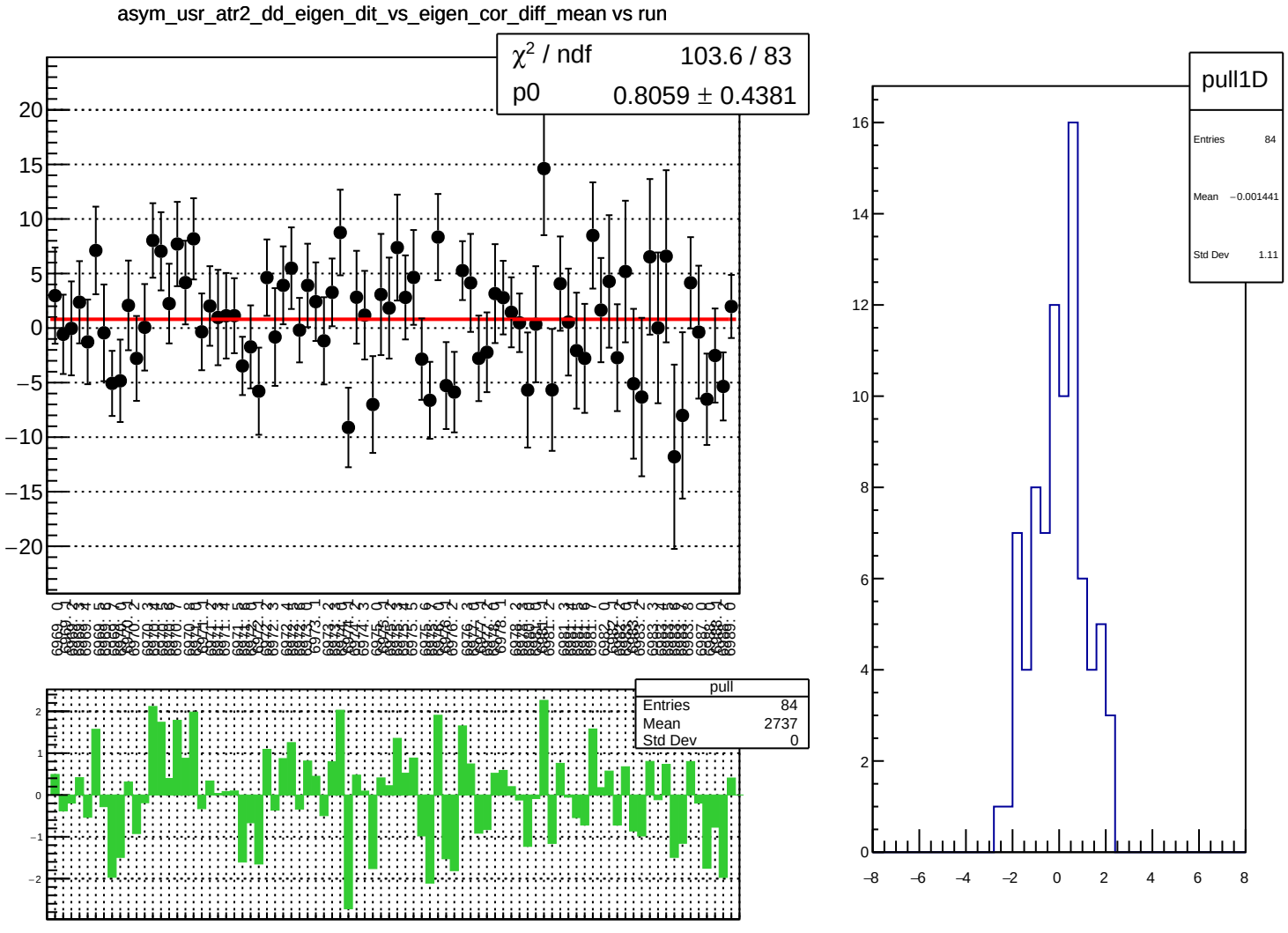

pull1D
Entries 84
Mean −0.003736
Std Dev 0.9748

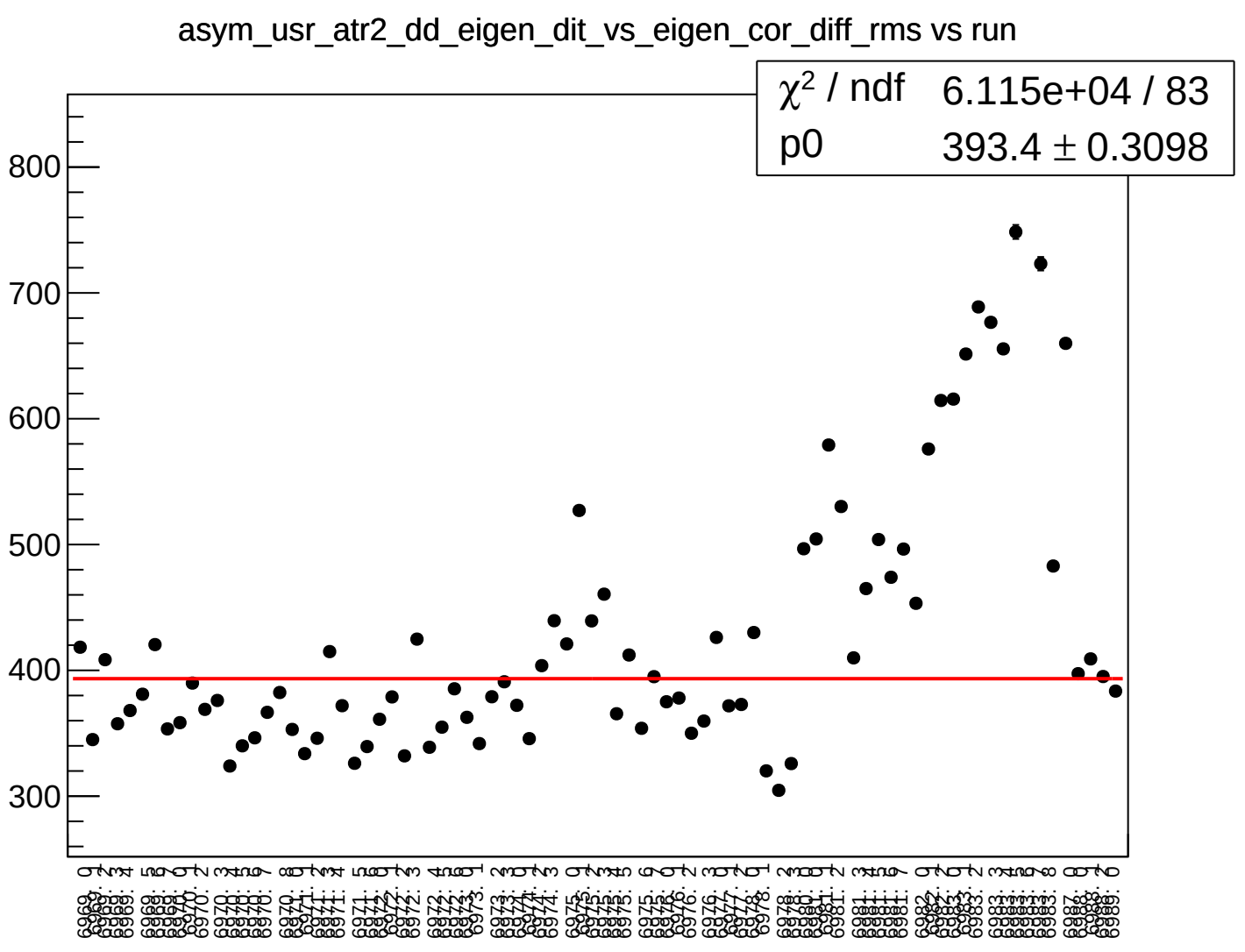

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3352 / 83
p0 0.005481 ± 4.241e−06
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005

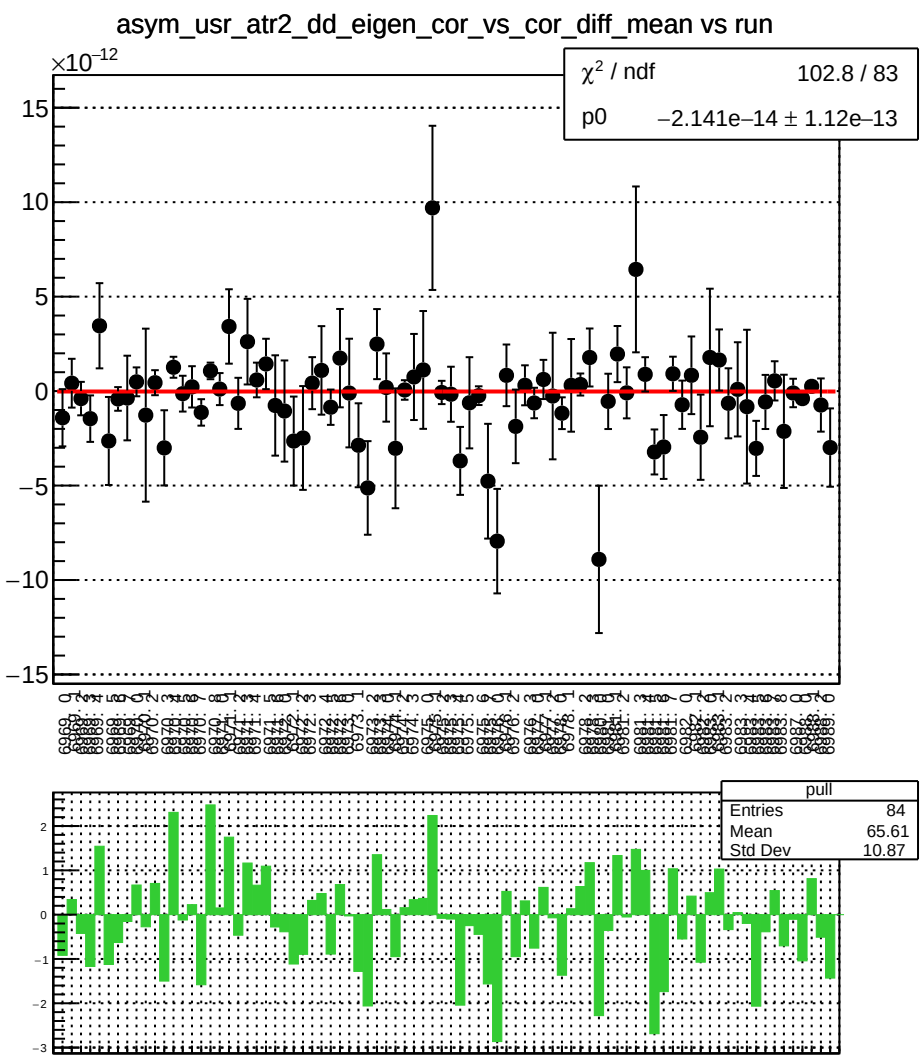

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 83
p0 0.8059 ± 0.4381
pull
Entries 84
Mean 2737
Std Dev 0

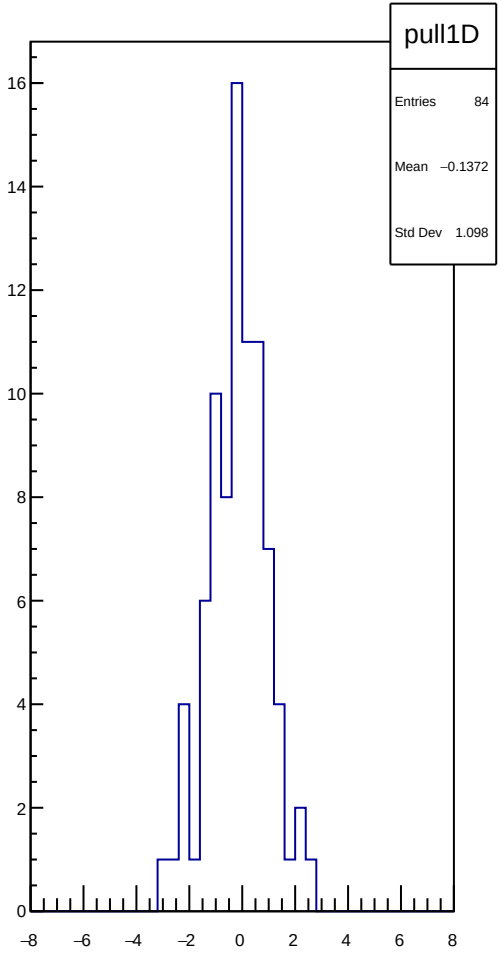

pull1D
Entries 84
Mean −0.001441
Std Dev 1.11

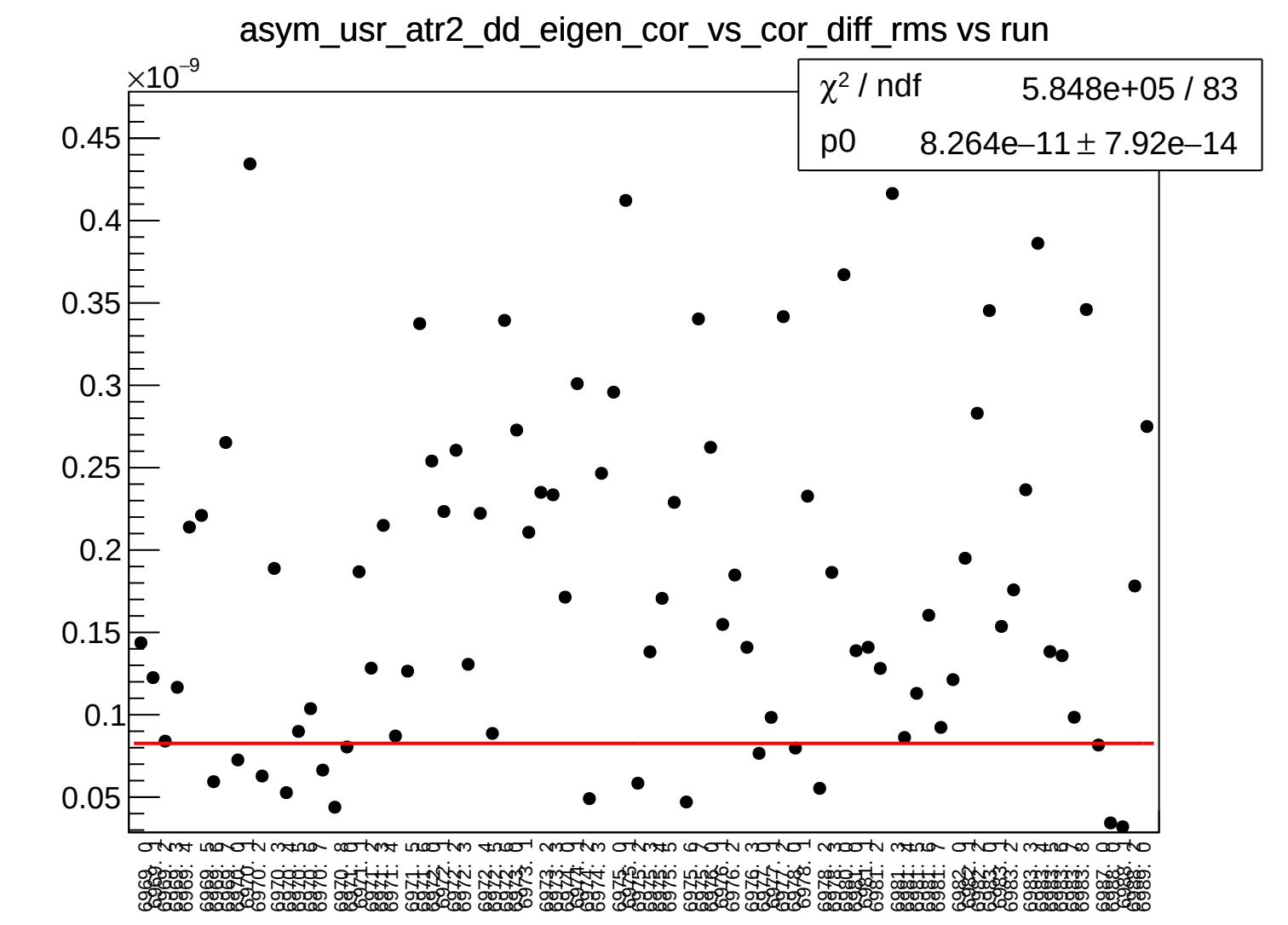

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.115e+04 / 83
p0 393.4 ± 0.3098
800
700
600
500
400
300

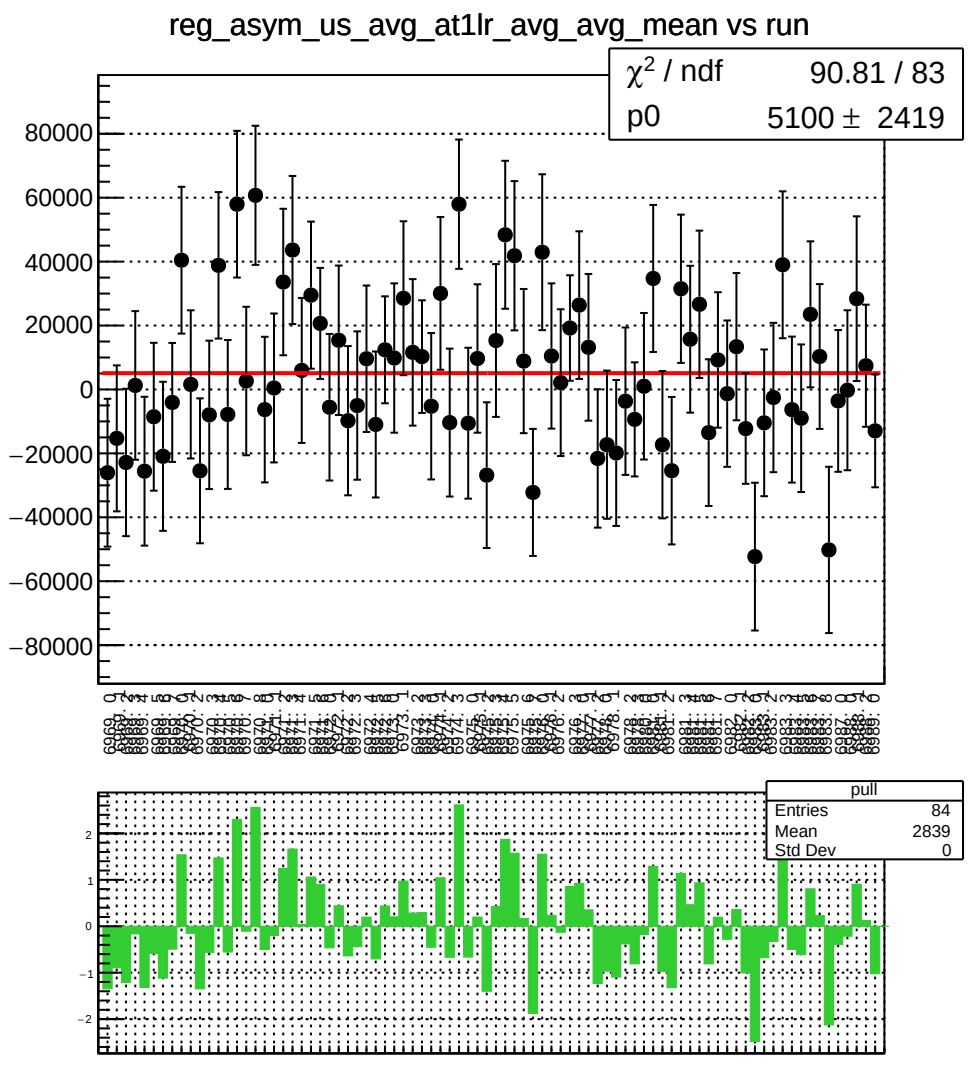

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 83
p0 0.8059 ± 0.4381
pull
Entries 84
Mean 2737
Std Dev 0
pull1D
Entries 84
Mean −0.001441
Std Dev 1.11

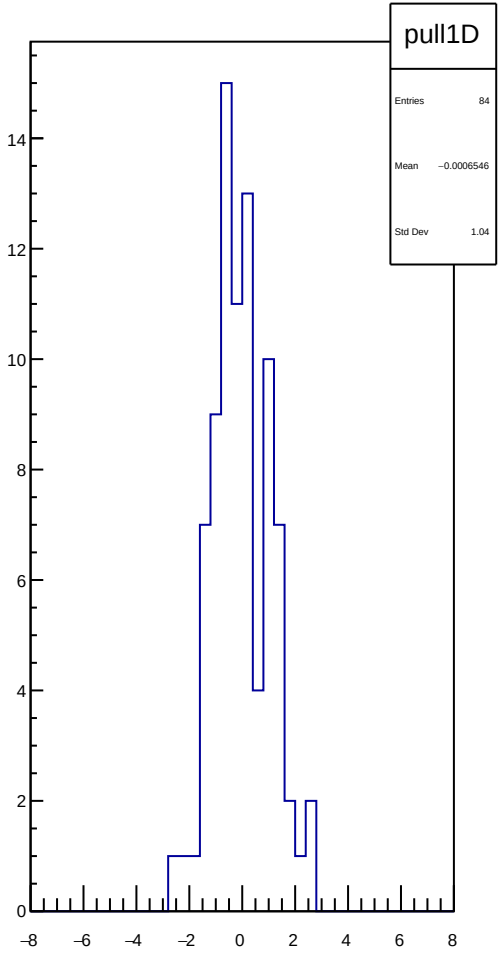

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.115e+04 / 83
p0 393.4 ± 0.3098
800
700
600
500
400
300

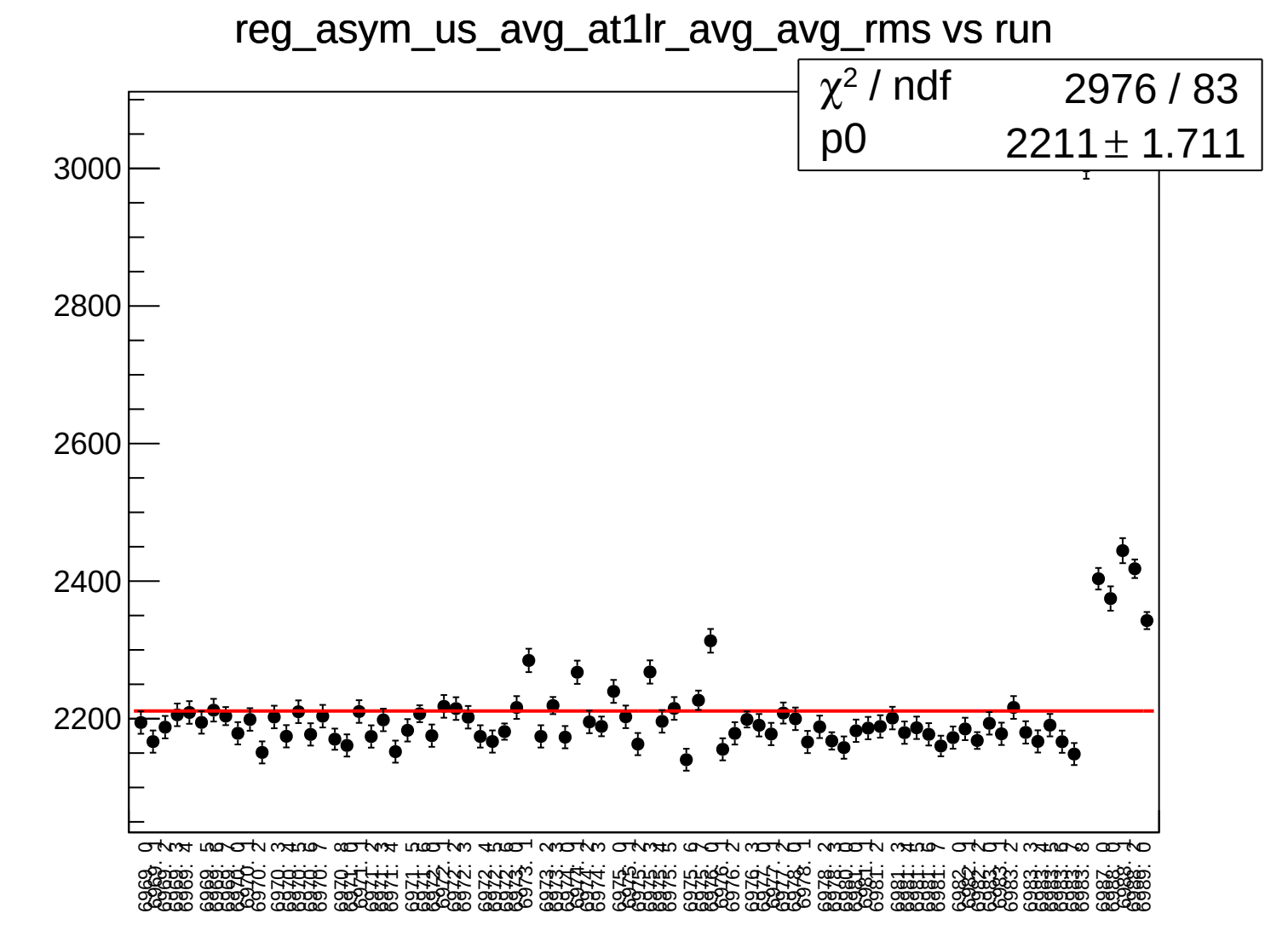

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.8 / 83
p0 −2.141e−14 ± 1.12e−13
15
10
5
0
−5
−10
−15
pull
Entries 84
Mean 65.61
Std Dev 10.87
2
1
0
−1
−2
−3

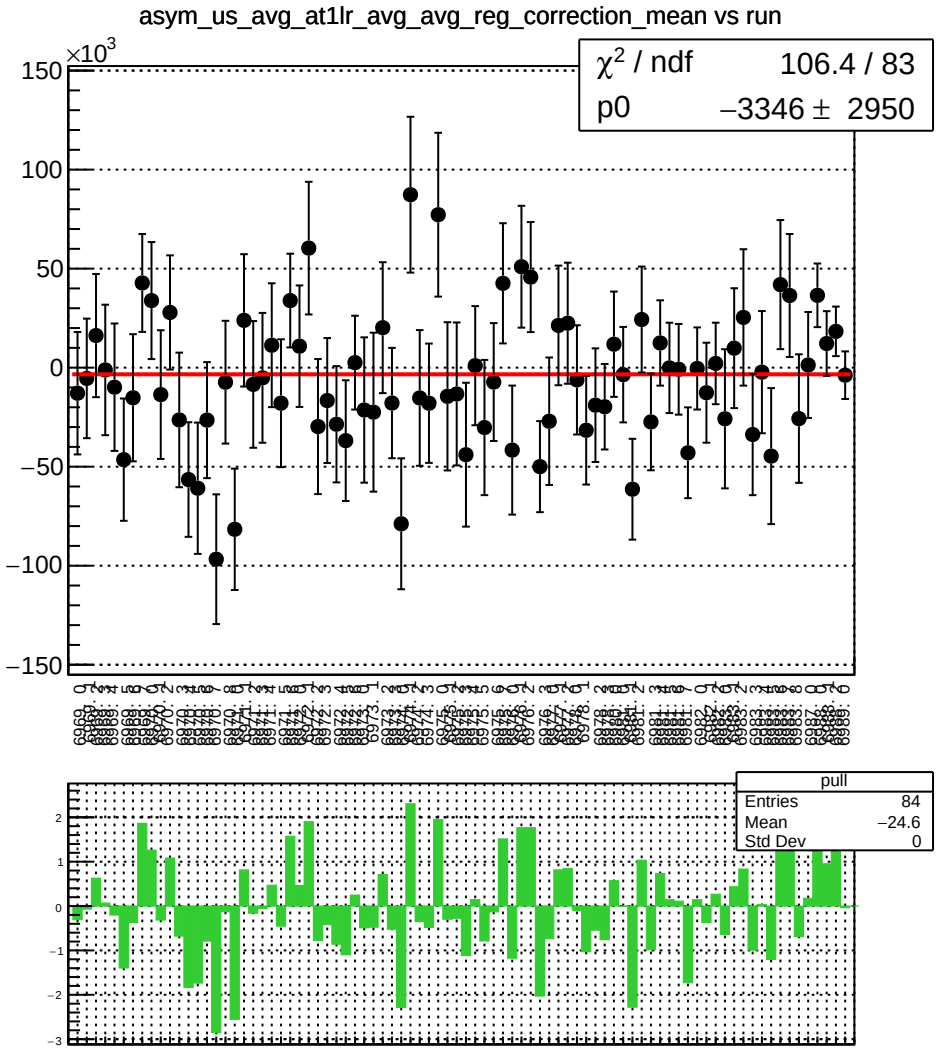

pull1D
Entries 84
Mean −0.1372
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

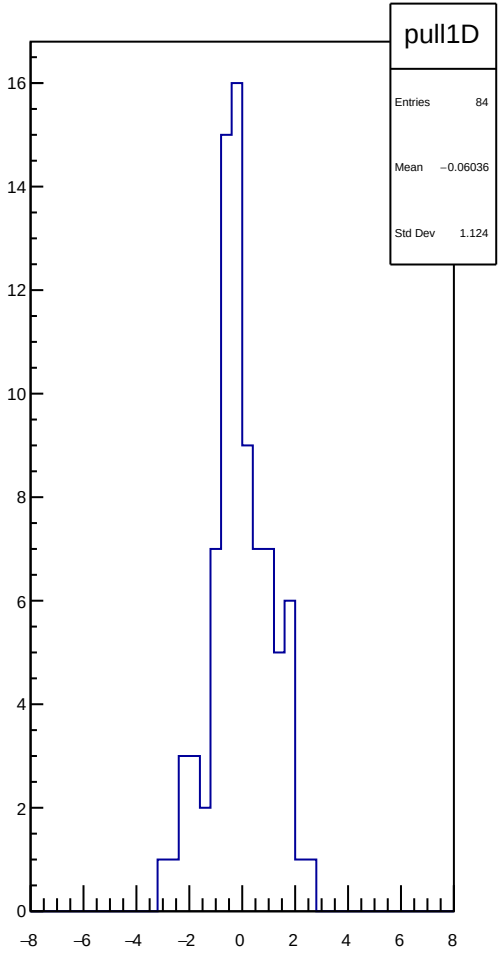

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.848e+05 / 83
p0 8.264e−11 ± 7.92e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

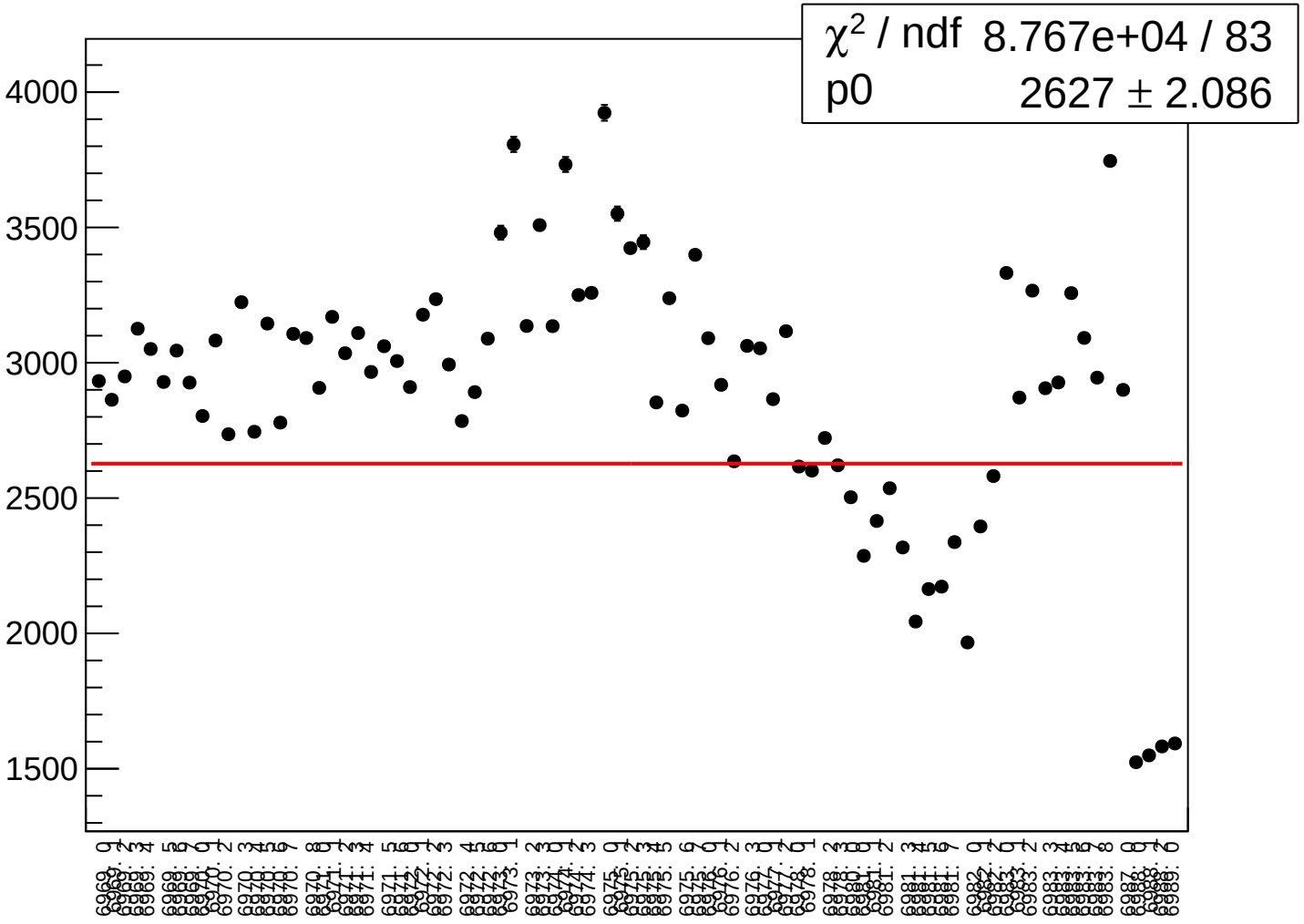

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 90.81 / 83
p0 5100 ± 2419
pull
Entries 84
Mean 2839
Std Dev 0

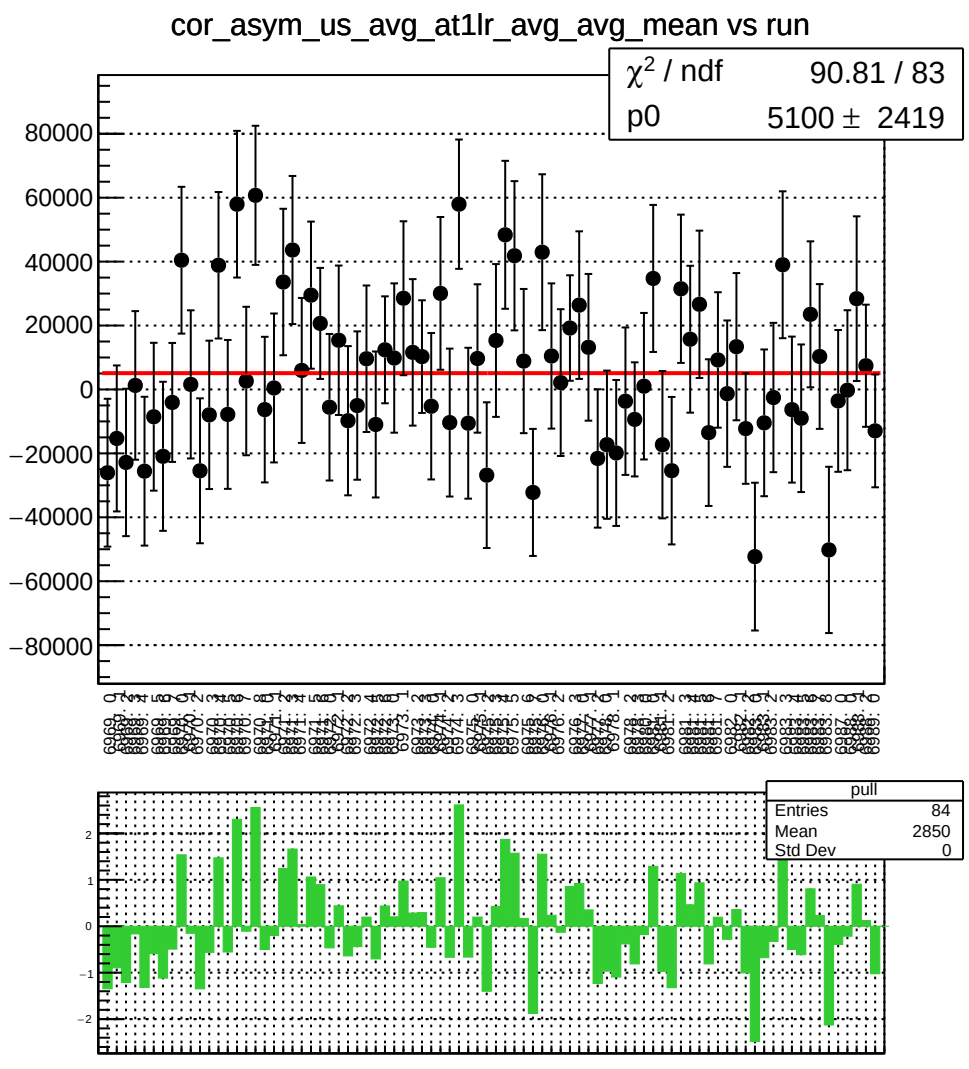

pull1D
Entries 84
Mean −0.0006546
Std Dev 1.04

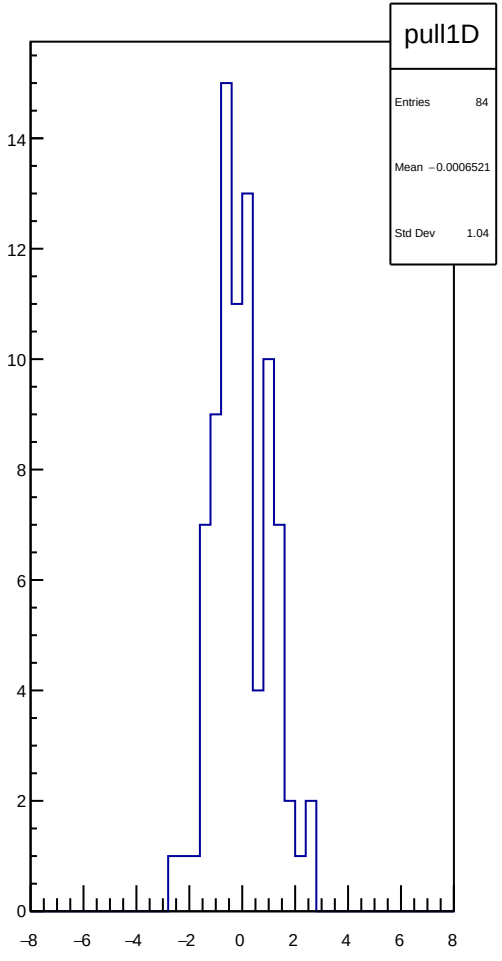

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2976 / 83
p0 2211 ± 1.711
3000
2800
2600
2400
2200

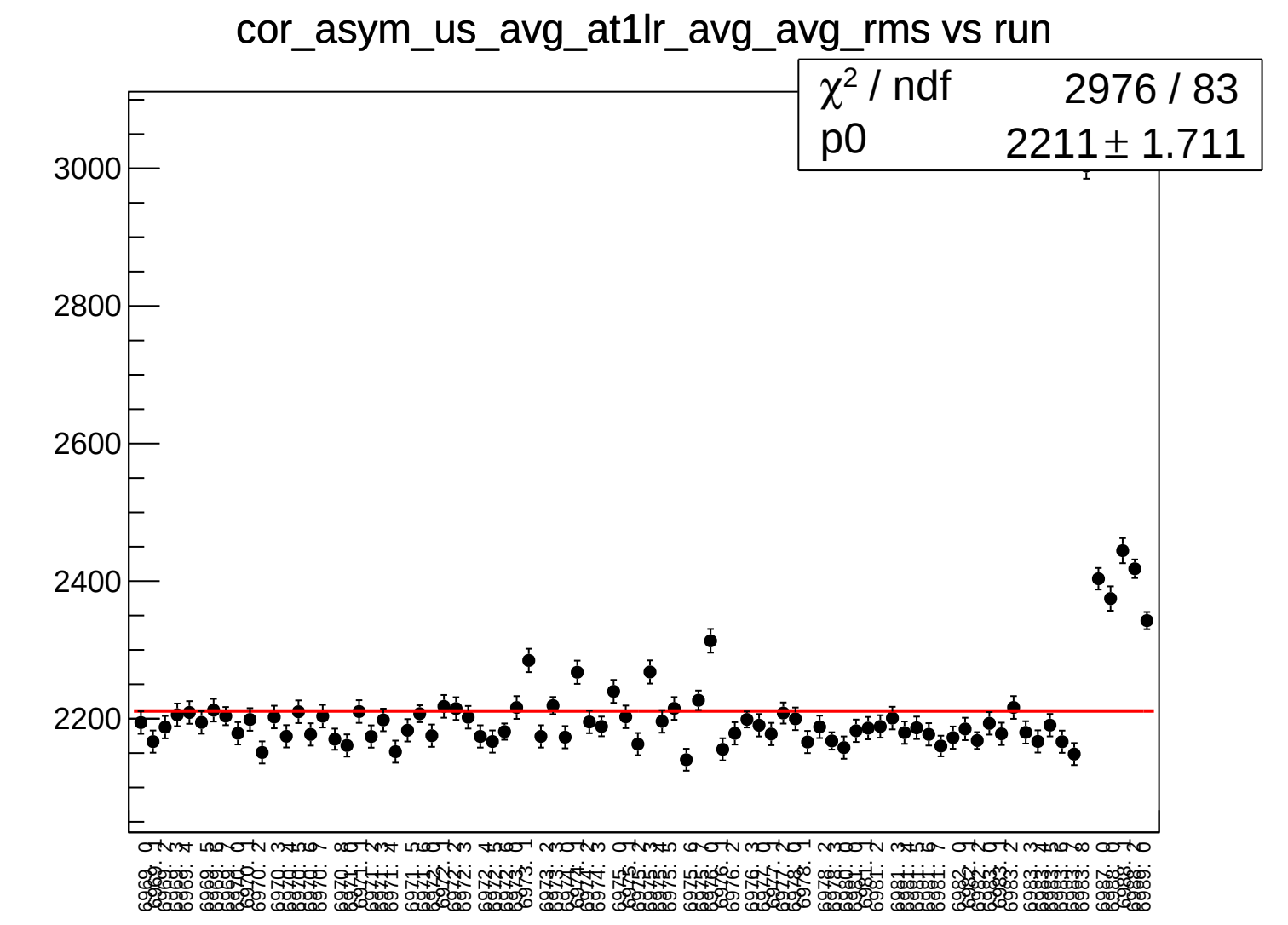

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106.4 / 83
p0 −3346 ± 2950
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −24.6
Std Dev 0
2
1
0
−1
−2
−3

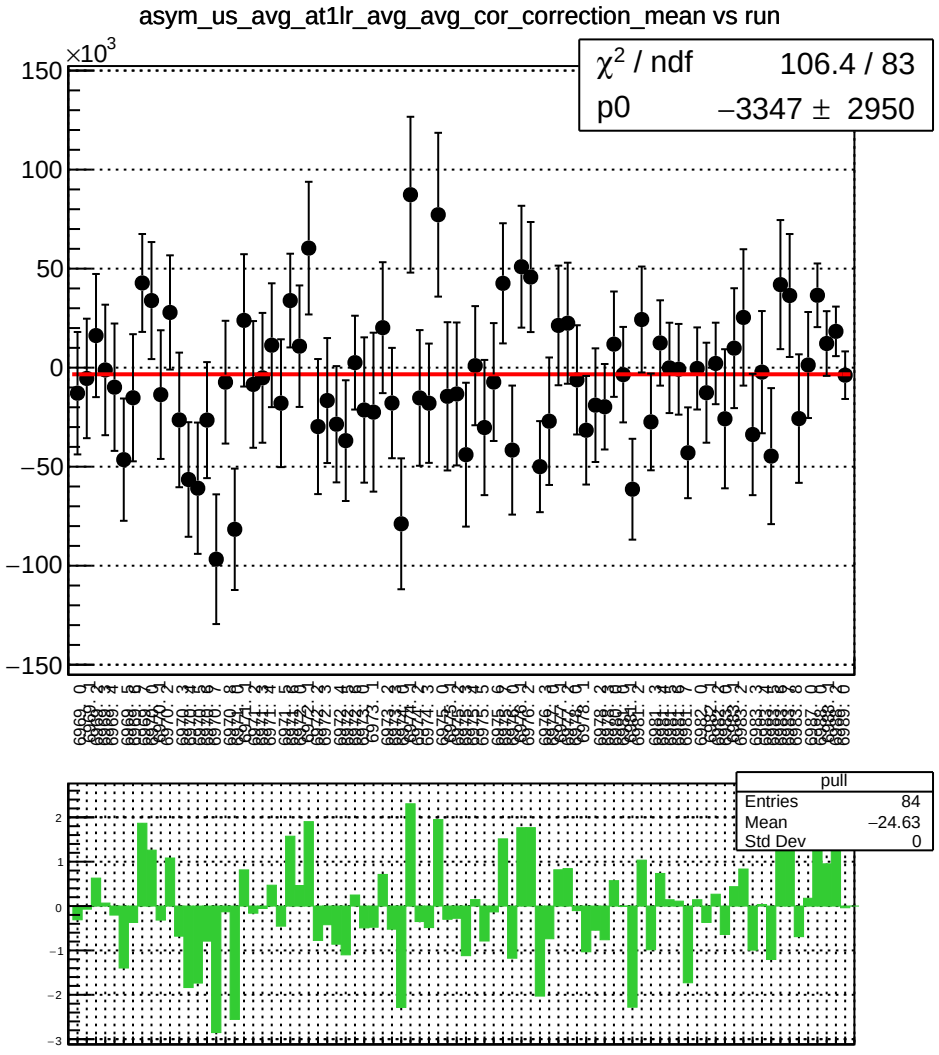

pull1D
Entries 84
Mean −0.06036
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

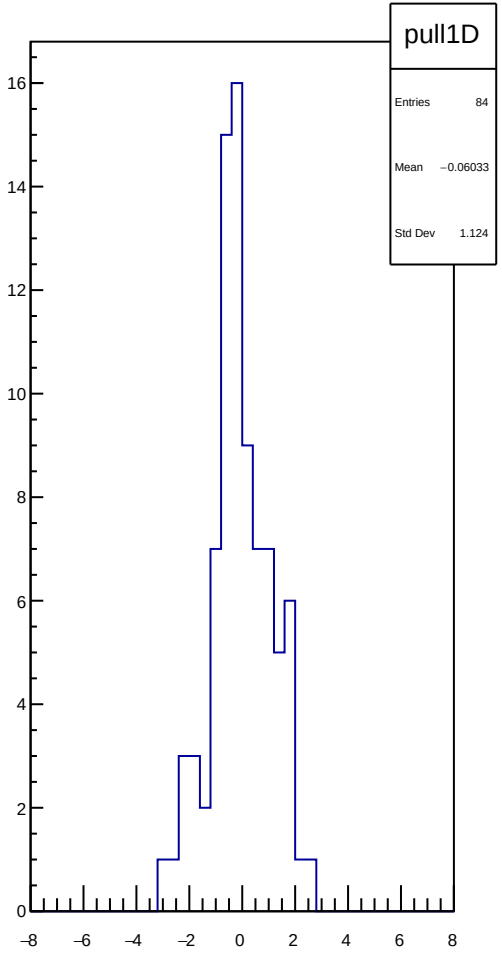

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 8.767e+04 / 83
p0 2627 ± 2.086
4000
3500
3000
2500
2000
1500

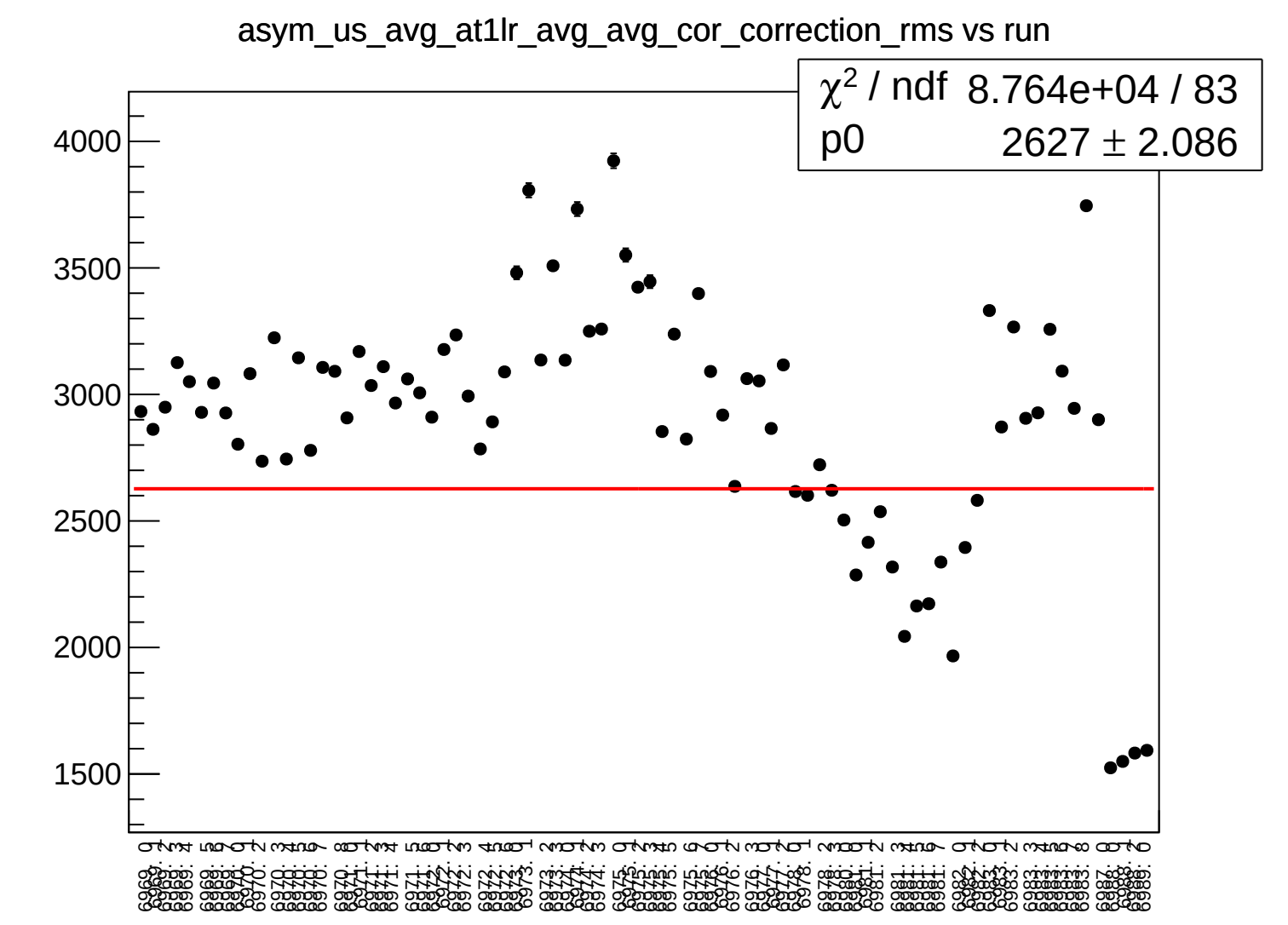

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 90.81 / 83
p0 5100 ± 2419
pull
Entries 84
Mean 2850
Std Dev 0

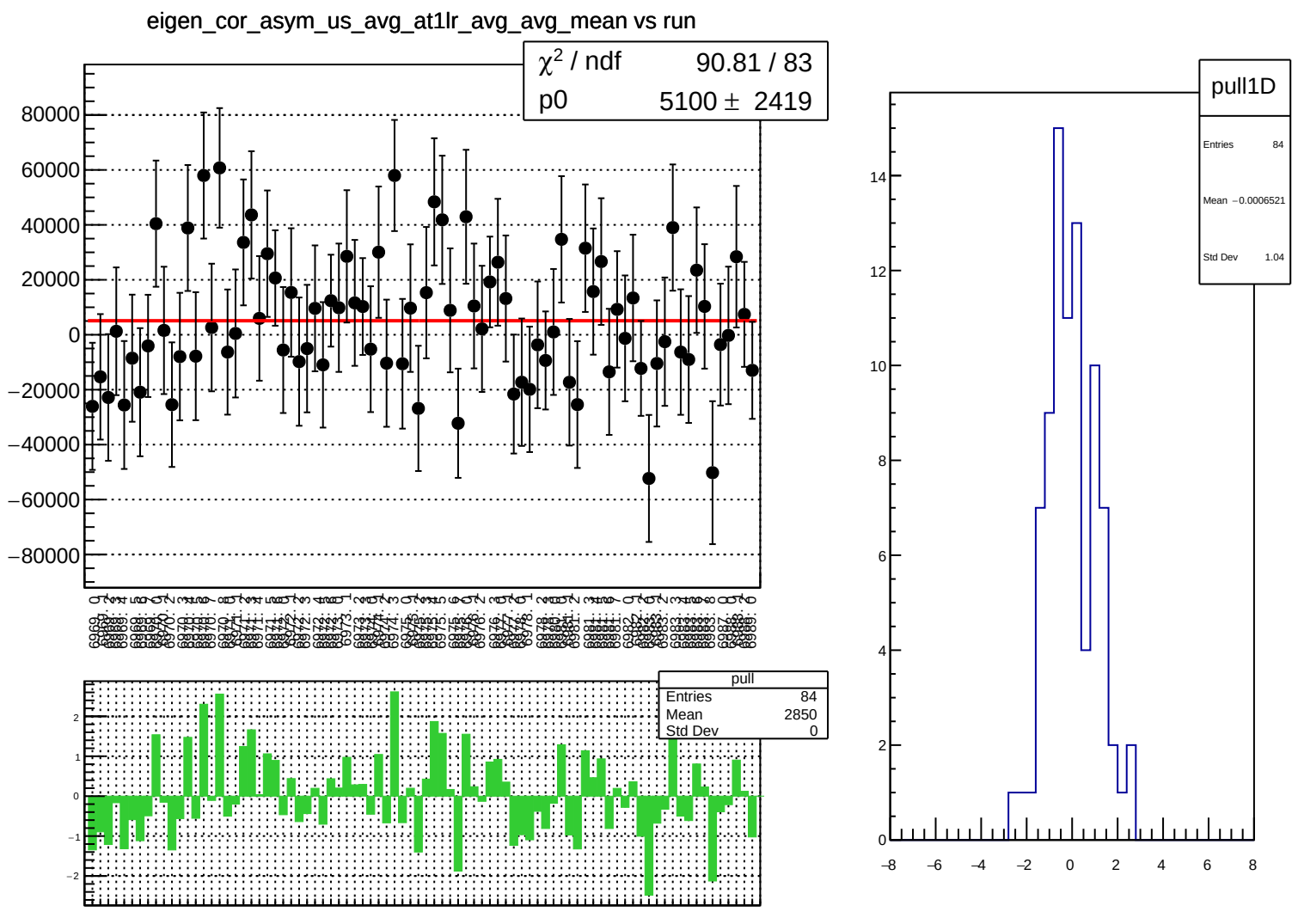

pull1D
Entries 84
Mean −0.0006521
Std Dev 1.04

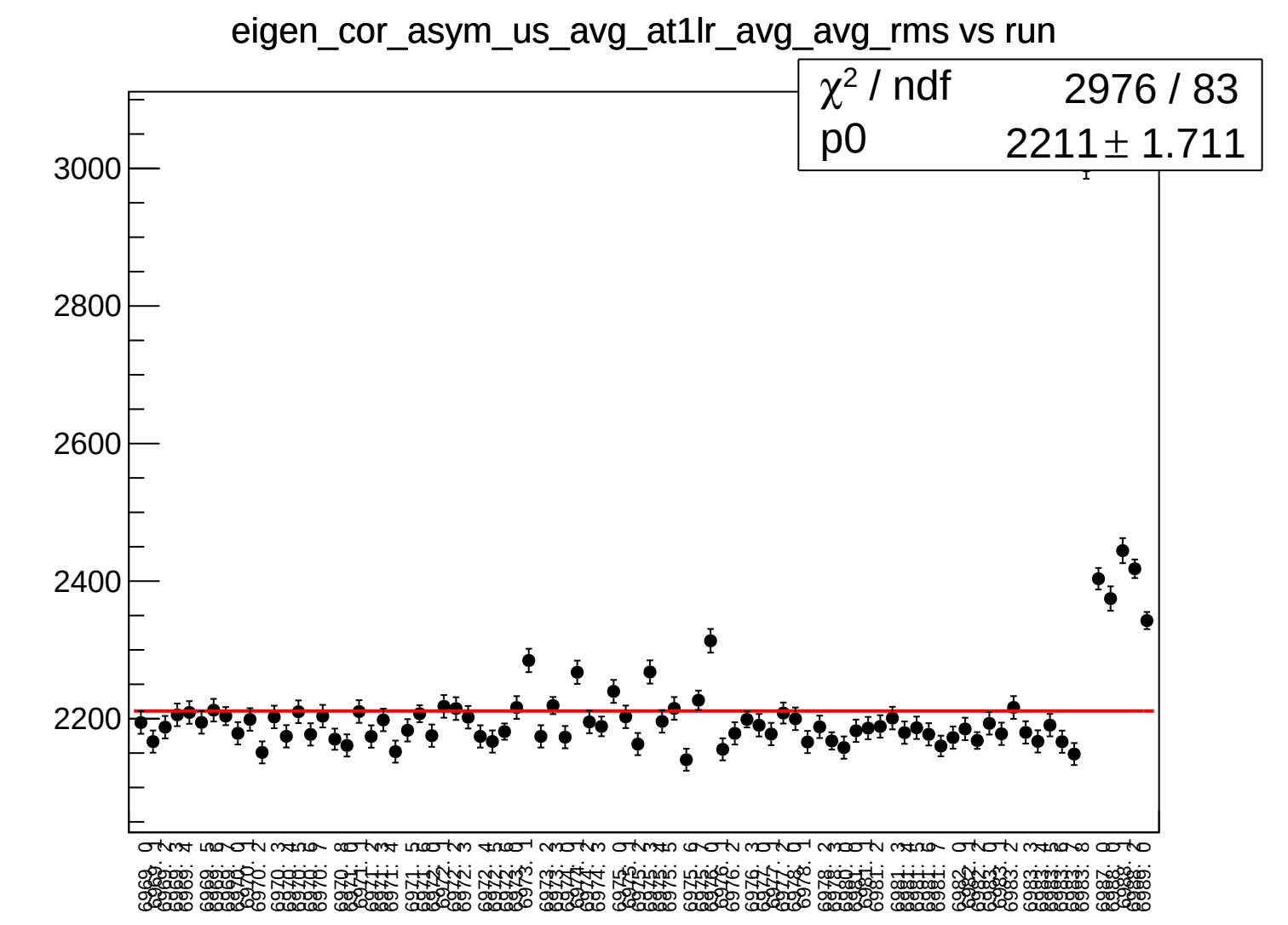

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2976 / 83
p0 2211 ± 1.711
3000
2800
2600
2400
2200

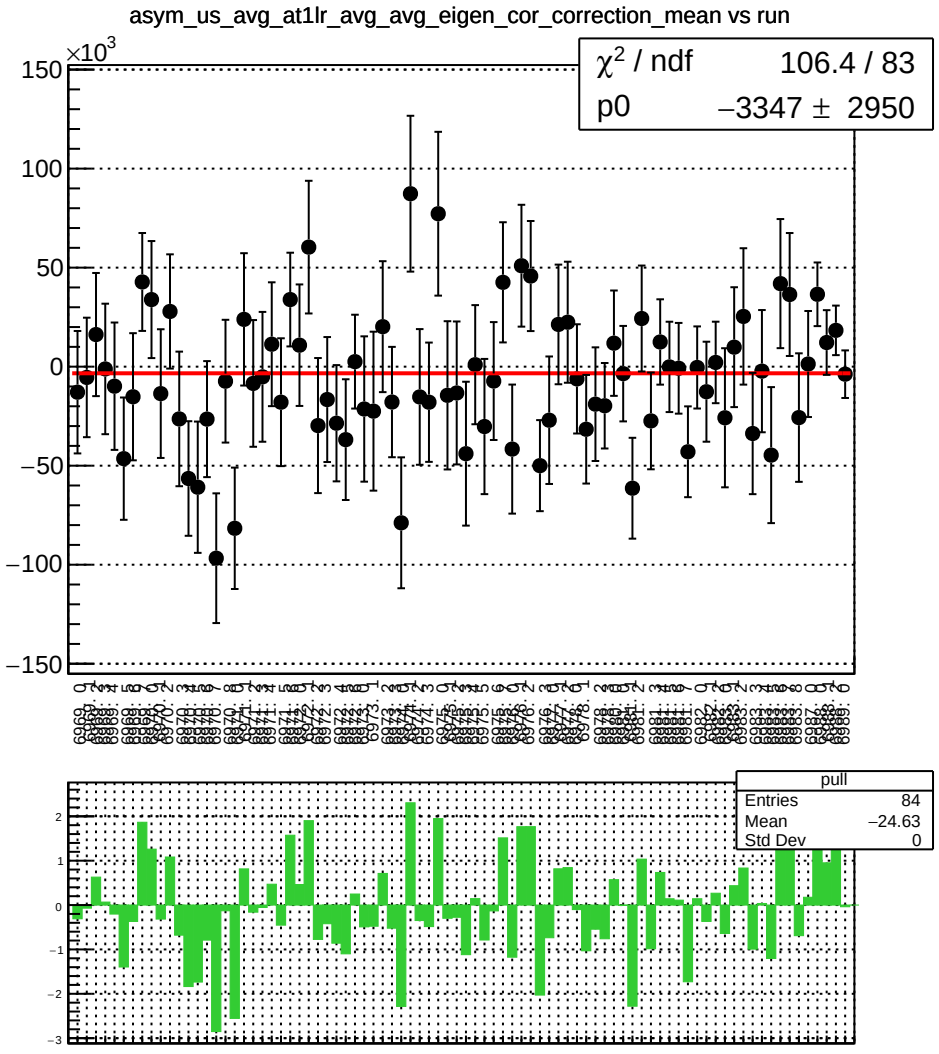

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 106.4 / 83
p0 −3347 ± 2950
pull
Entries 84
Mean −24.63
Std Dev 0

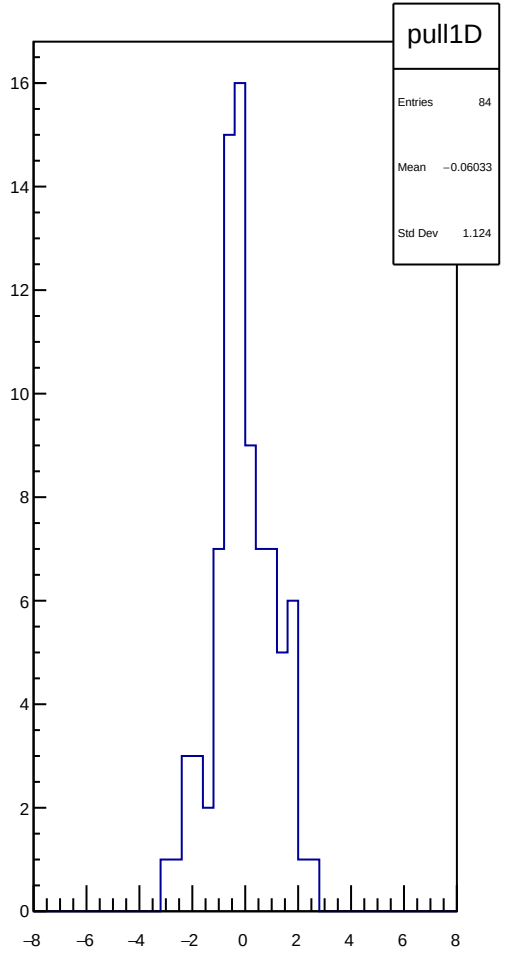

pull1D
Entries 84
Mean −0.06033
Std Dev 1.124

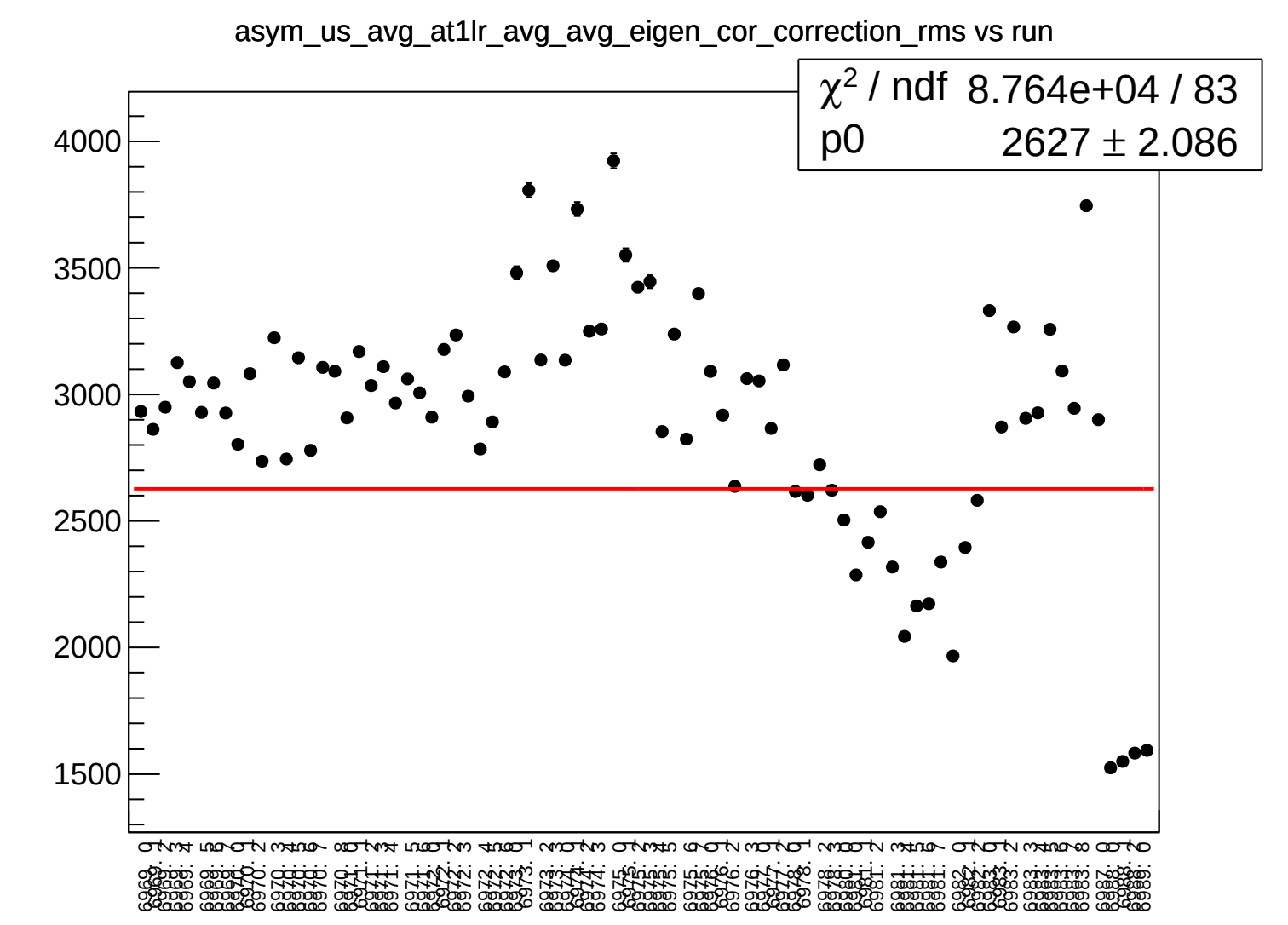

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 8.764e+04 / 83
p0 2627 ± 2.086
4000
3500
3000
2500
2000
1500

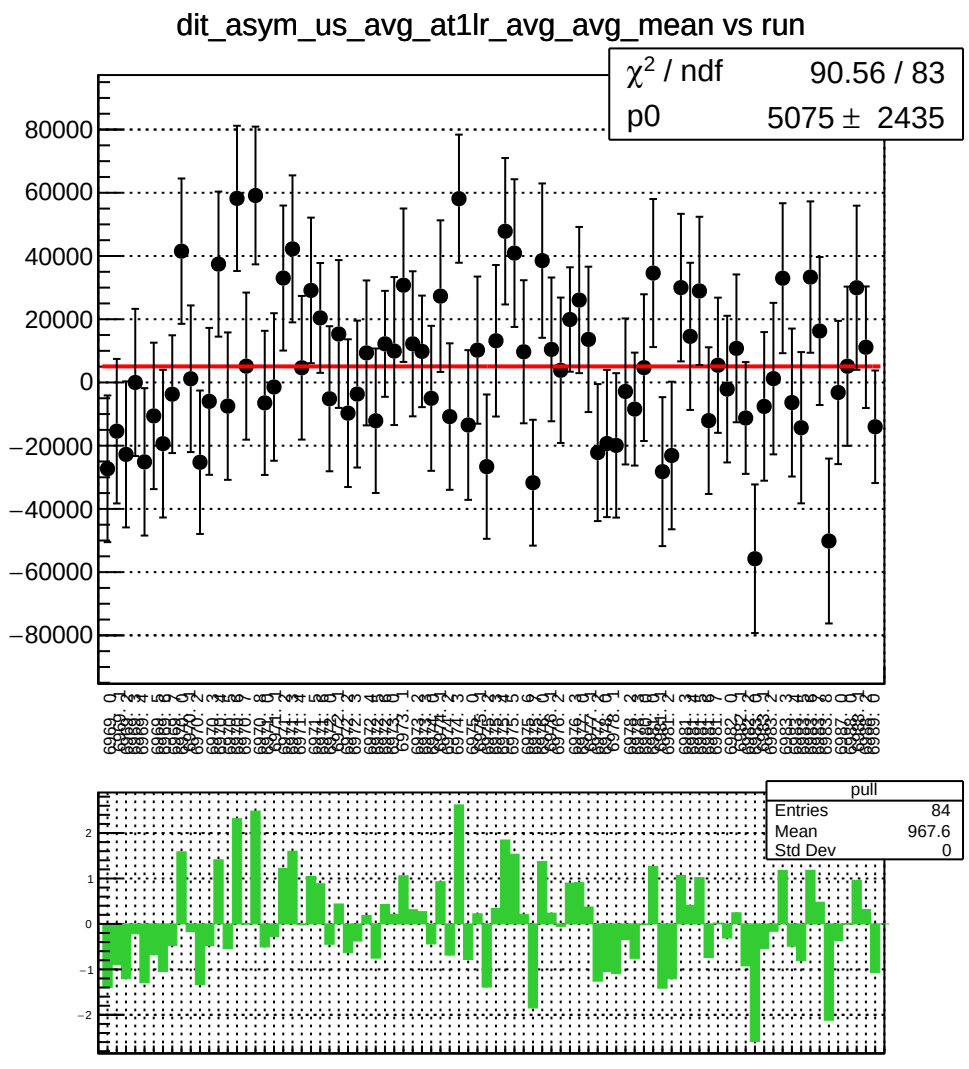

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 90.81 / 83
p0 5100 ± 2419
pull
Entries 84
Mean 2850
Std Dev 0
pull1D
Entries 84
Mean −0.0006521
Std Dev 1.04

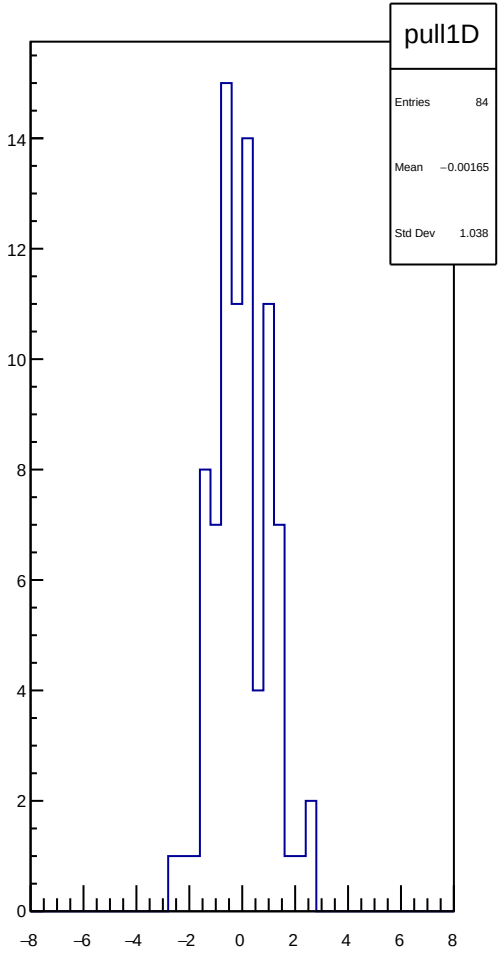

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2976 / 83
p0 2211 ± 1.711
3000
2800
2600
2400
2200

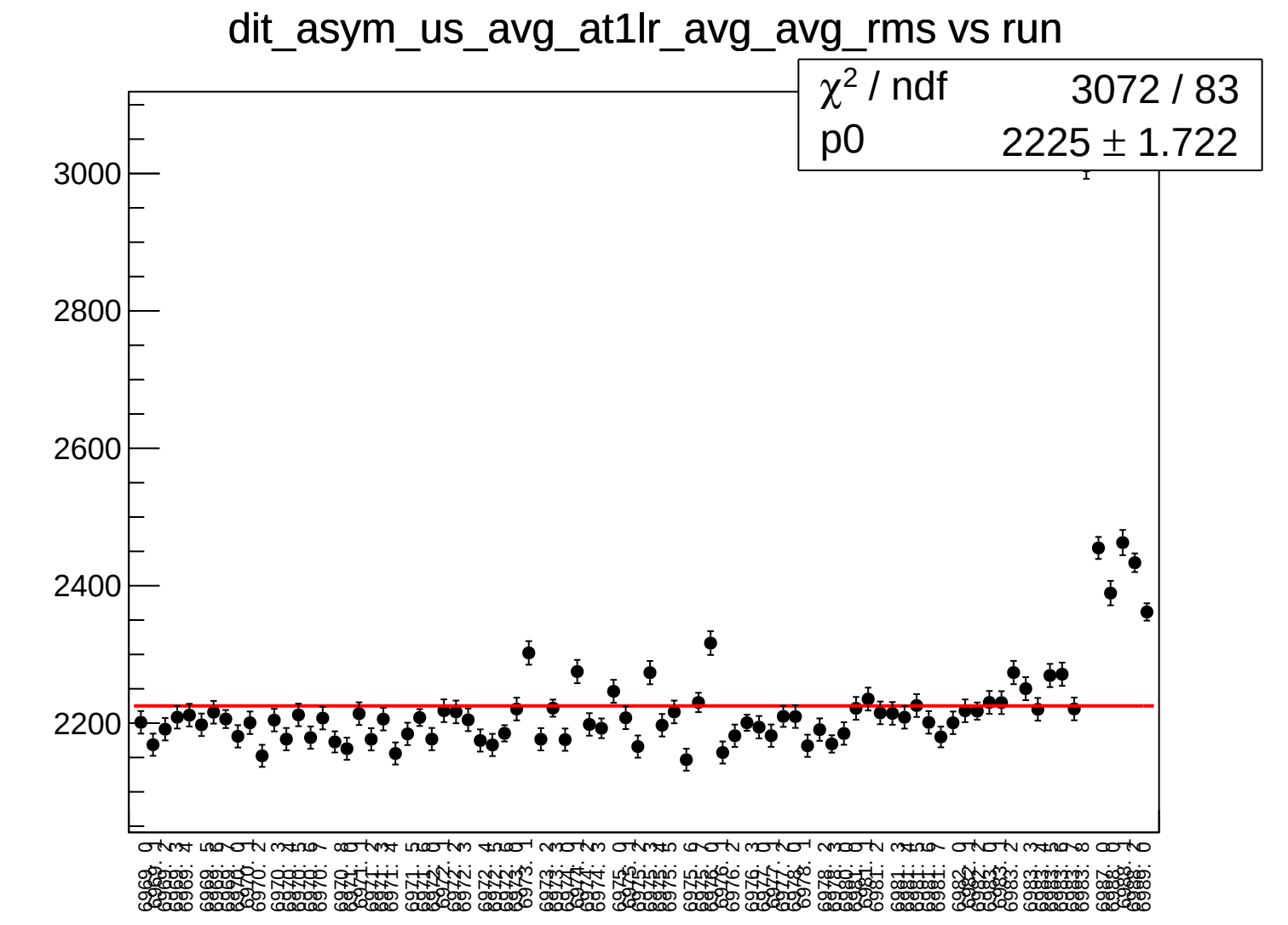

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.4 / 83
p0 −3347 ± 2950
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −24.63
Std Dev 0
2
1
0
−1
−2
−3

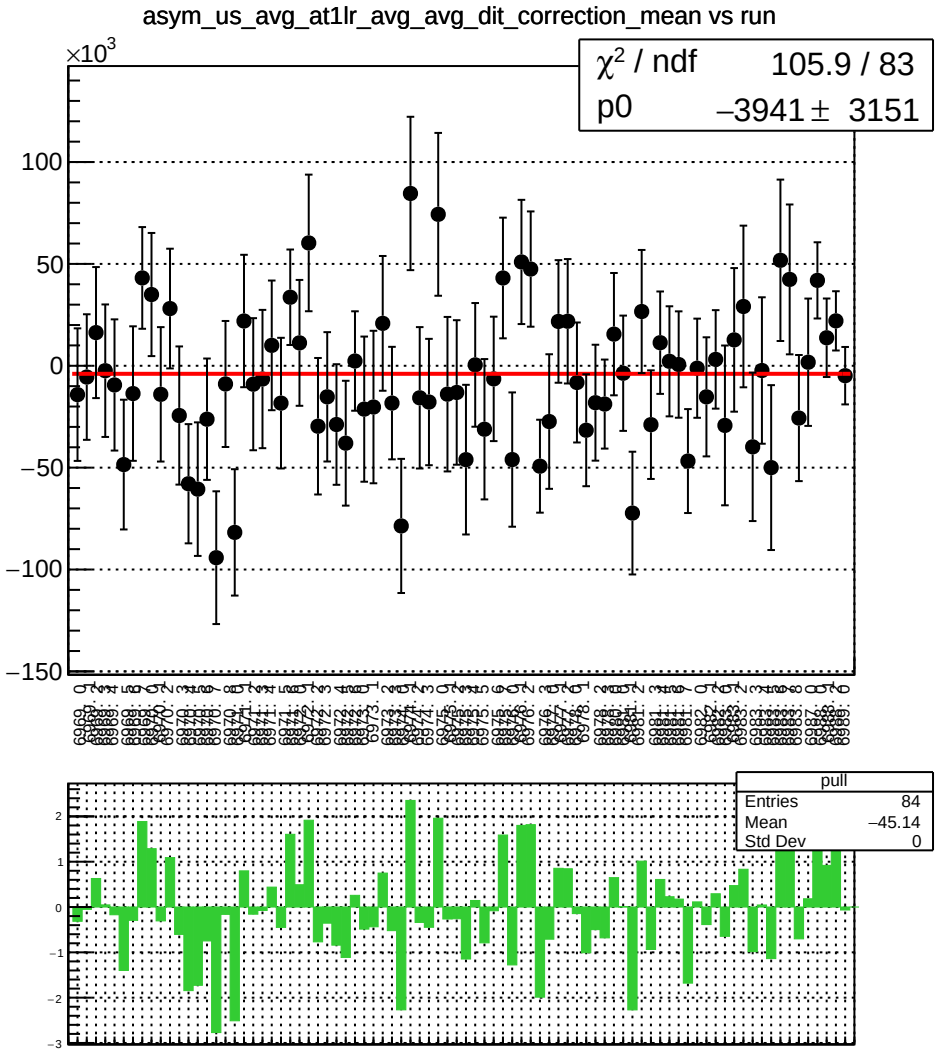

pull1D
Entries 84
Mean −0.06033
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

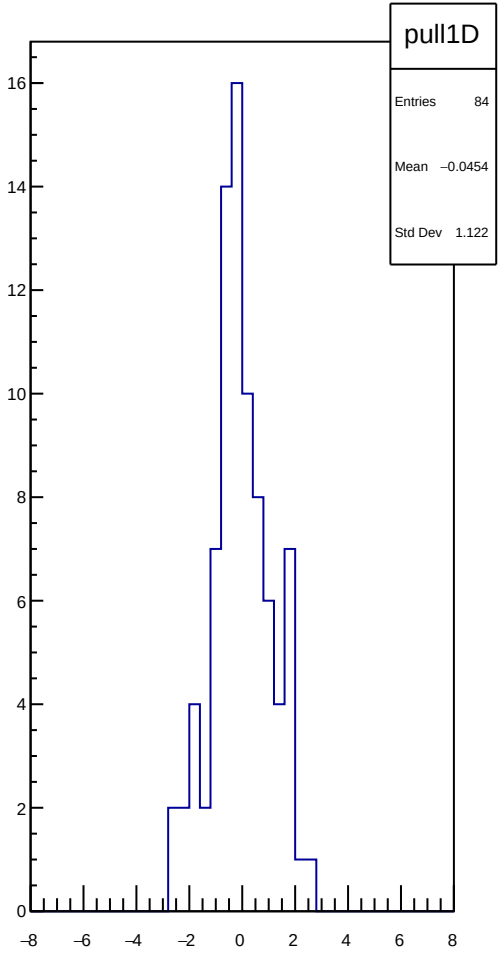

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 8.764e+04 / 83
p0 2627 ± 2.086
4000
3500
3000
2500
2000
1500

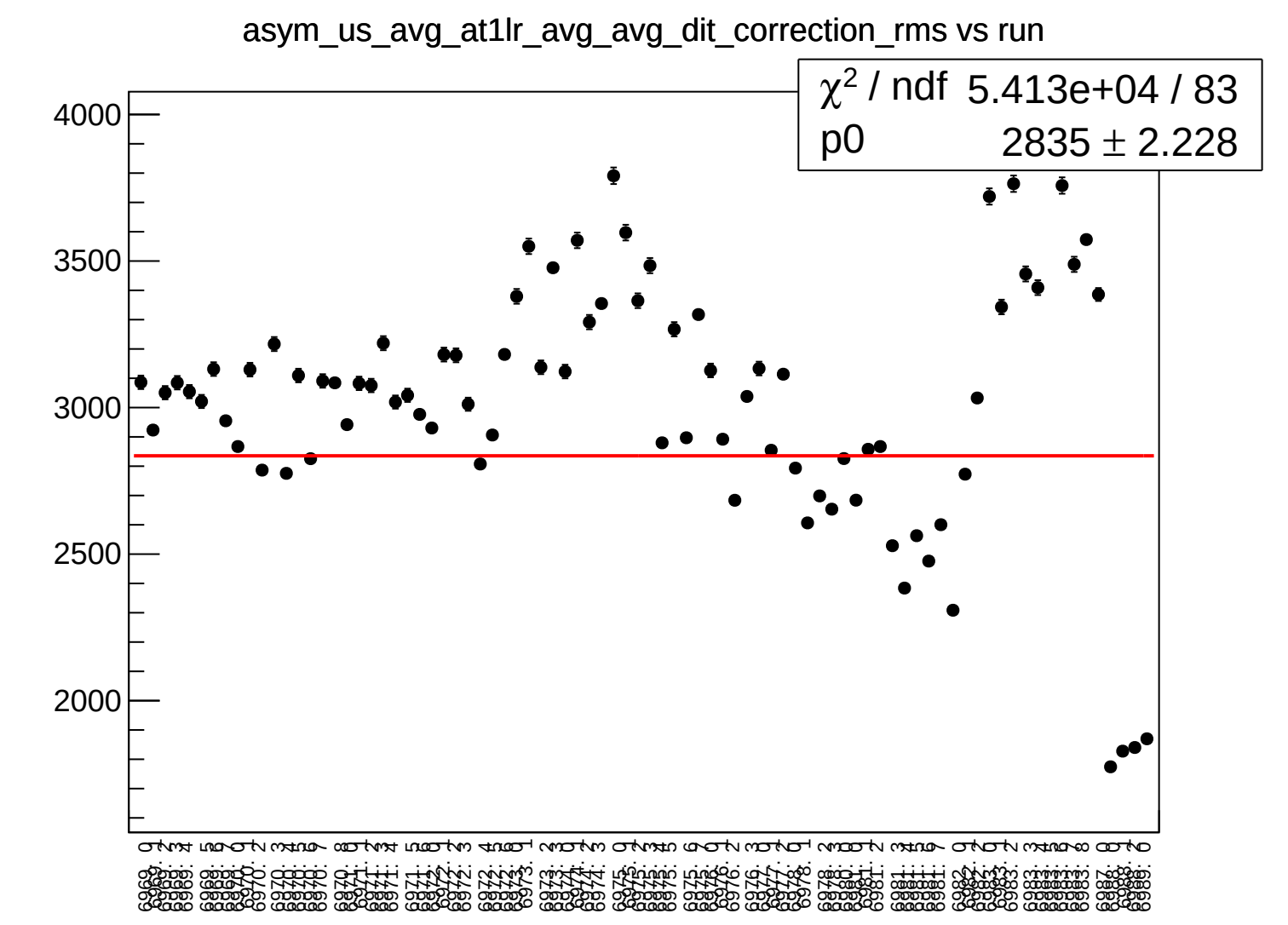

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 90.56 / 83
p0 5075 ± 2435
pull
Entries 84
Mean 967.6
Std Dev 0

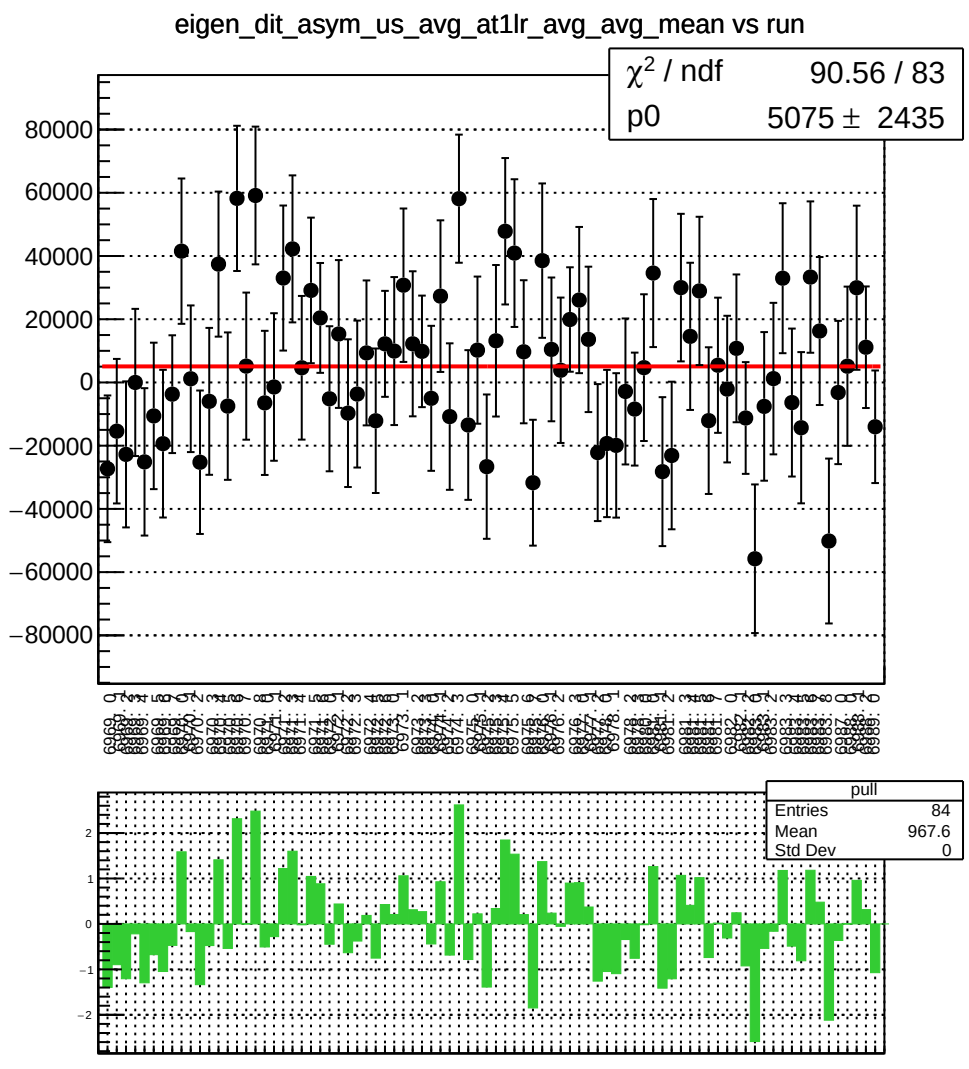

pull1D
Entries 84
Mean −0.00165
Std Dev 1.038

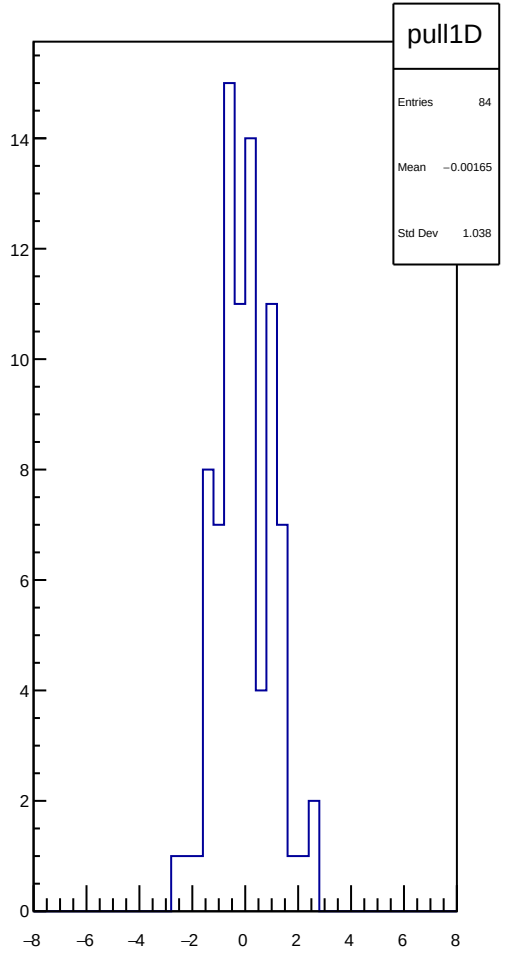

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 3072 / 83
p0 2225 ± 1.722
3000
2800
2600
2400
2200

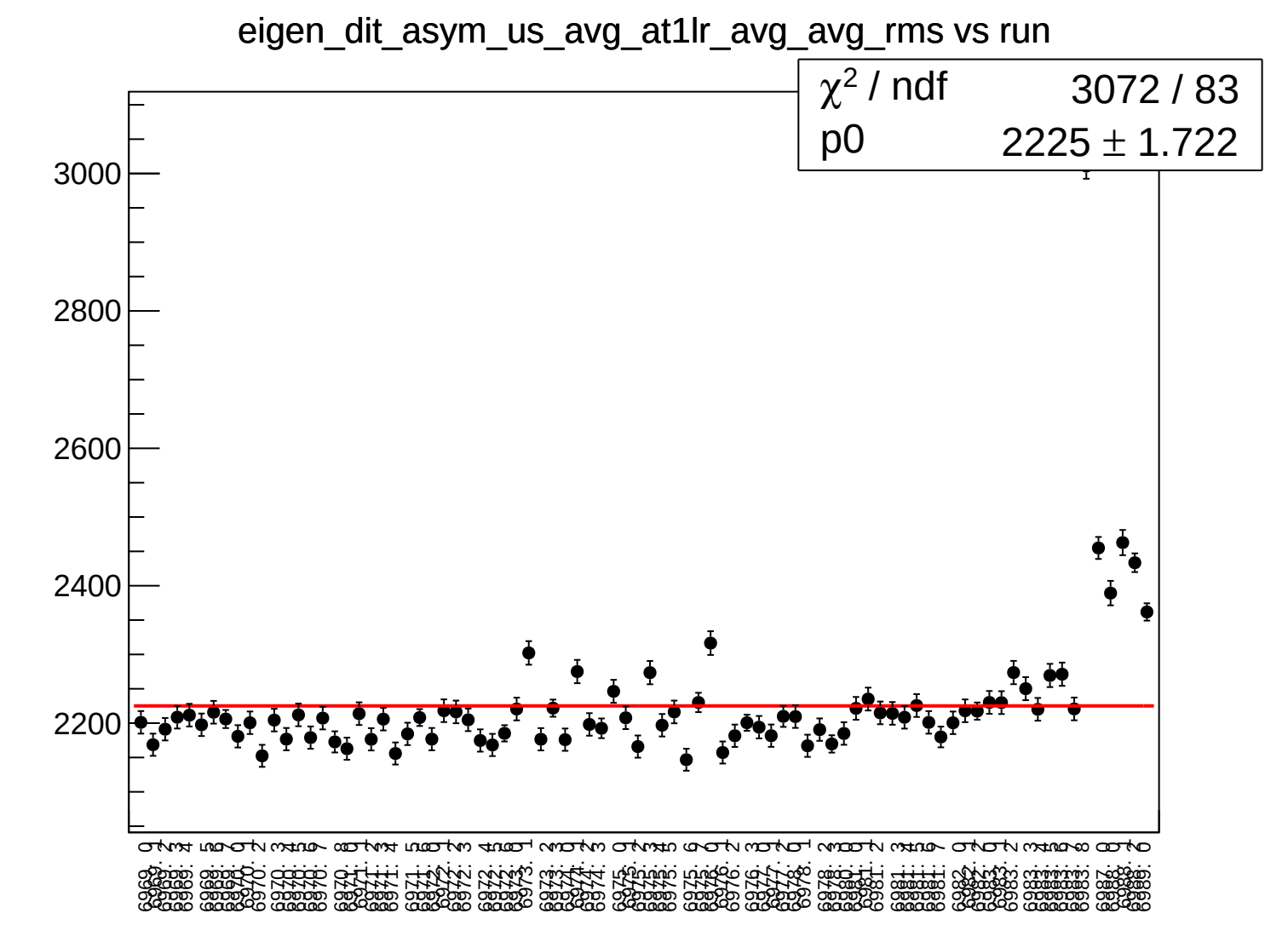

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 105.9 / 83
p0 −3941 ± 3151
100
50
0
−50
−100
−150
pull
Entries 84
Mean −45.14
Std Dev 0
2
1
0
−1
−2
−3

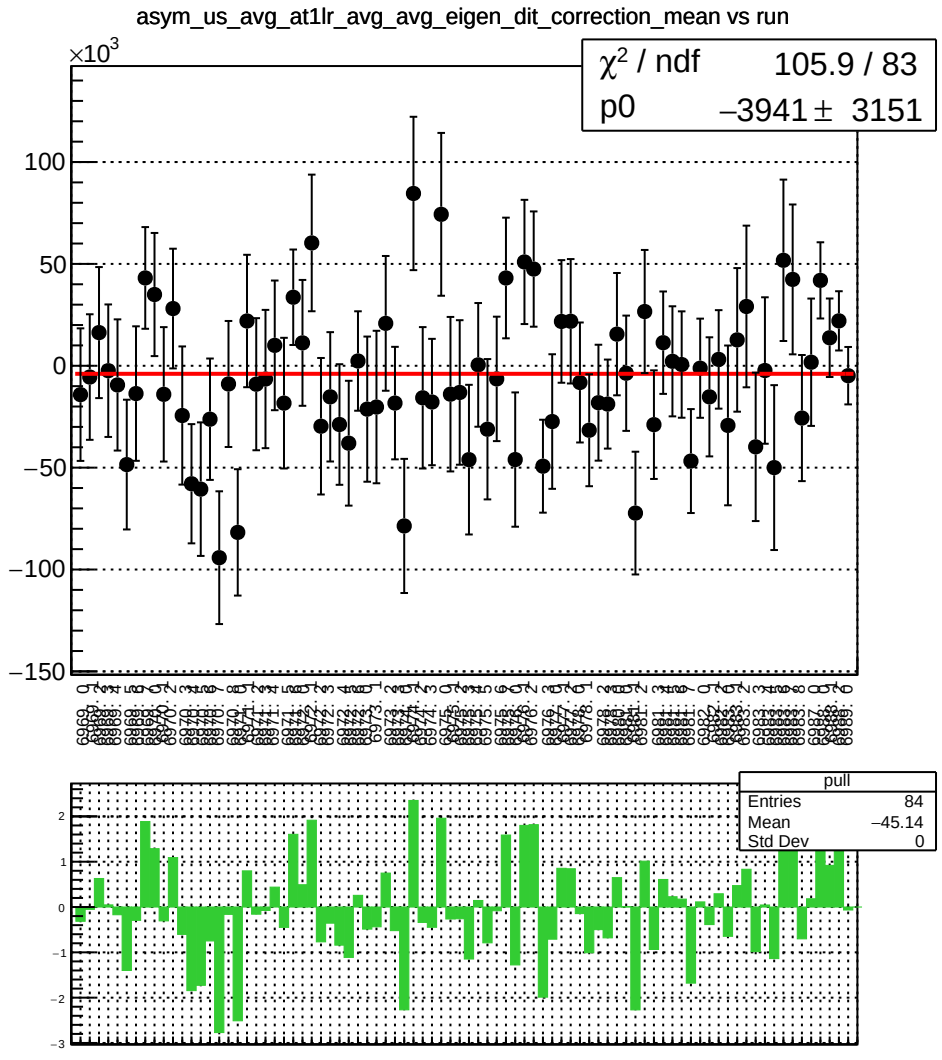

pull1D
Entries 84
Mean −0.0454
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

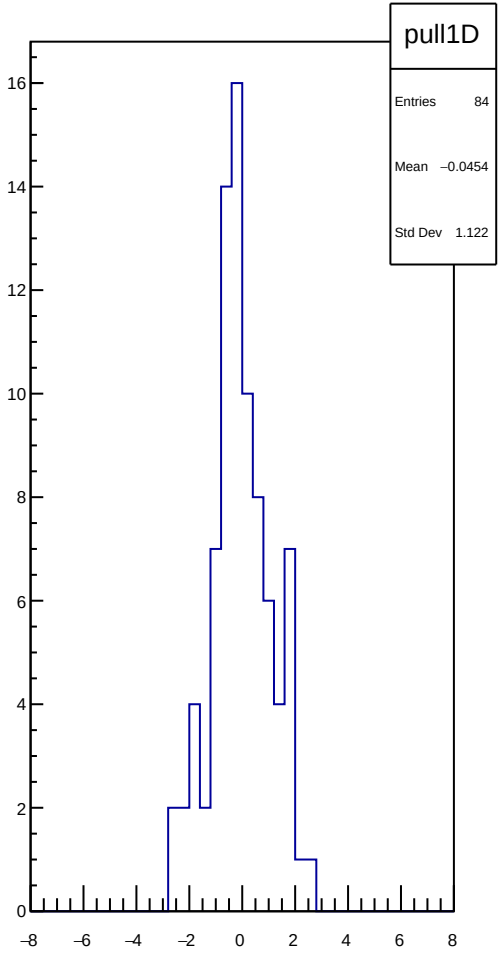

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5.413e+04 / 83
p0 2835 ± 2.228
4000
3500
3000
2500
2000

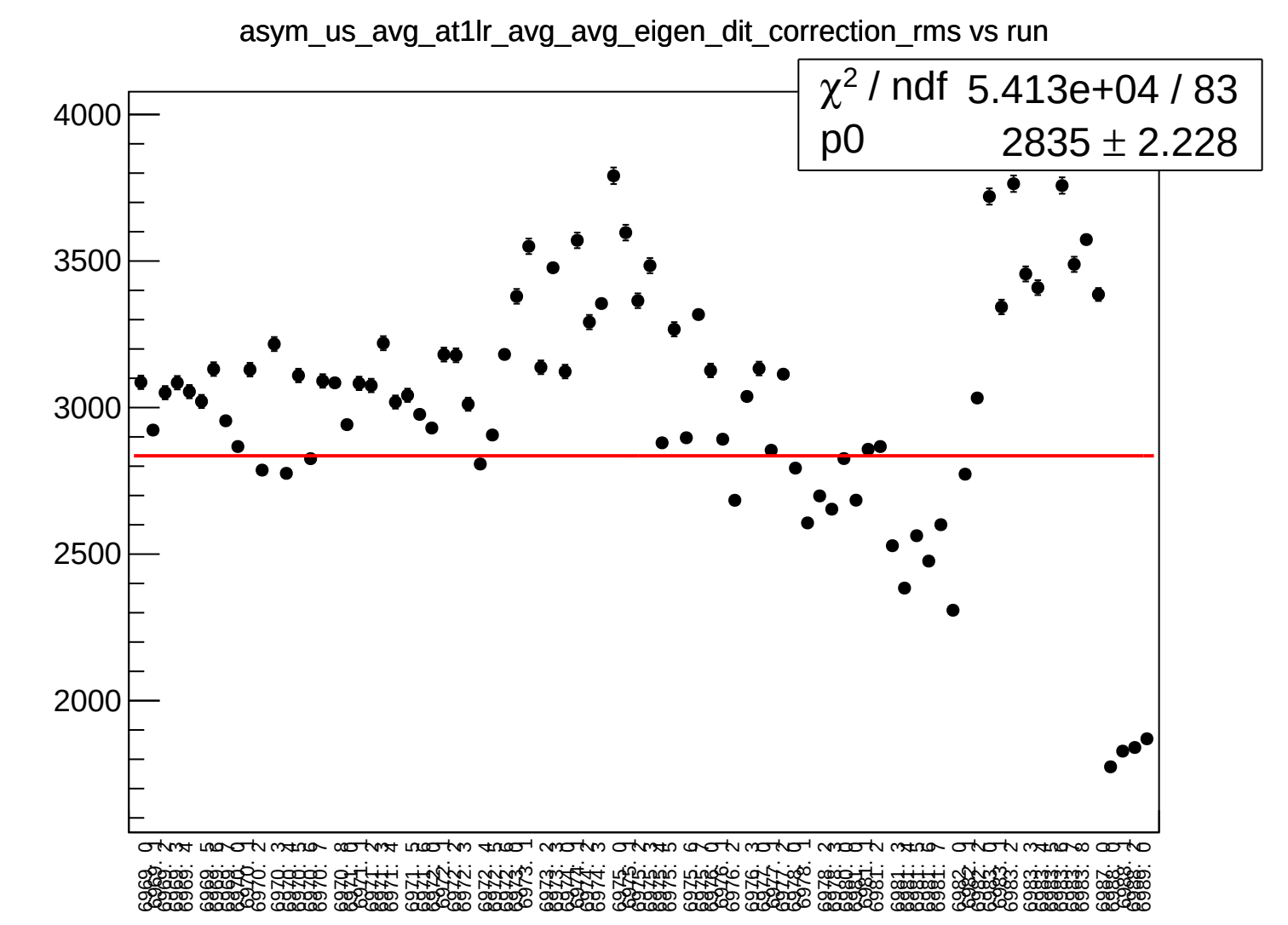

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 90.56 / 83
p0 5075 ± 2435
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 967.6
Std Dev 0
2
1
0
−1
−2

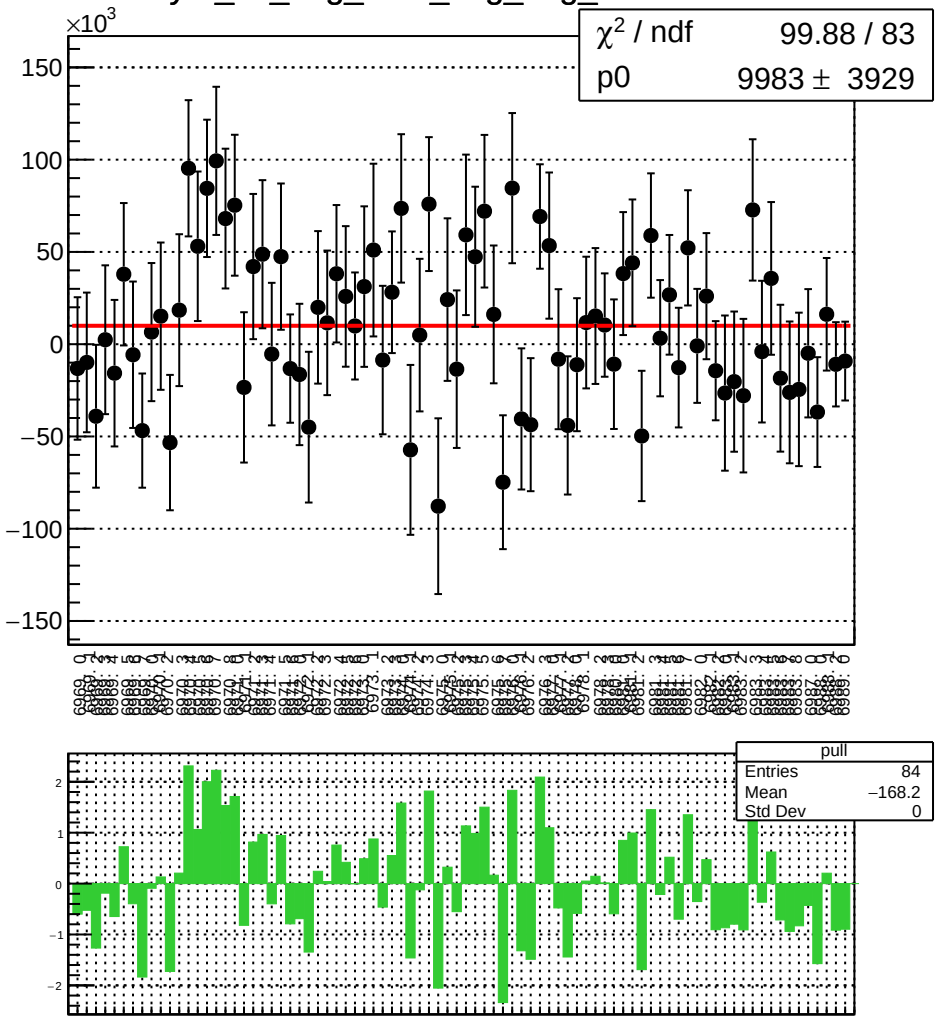

pull1D
Entries 84
Mean −0.00165
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

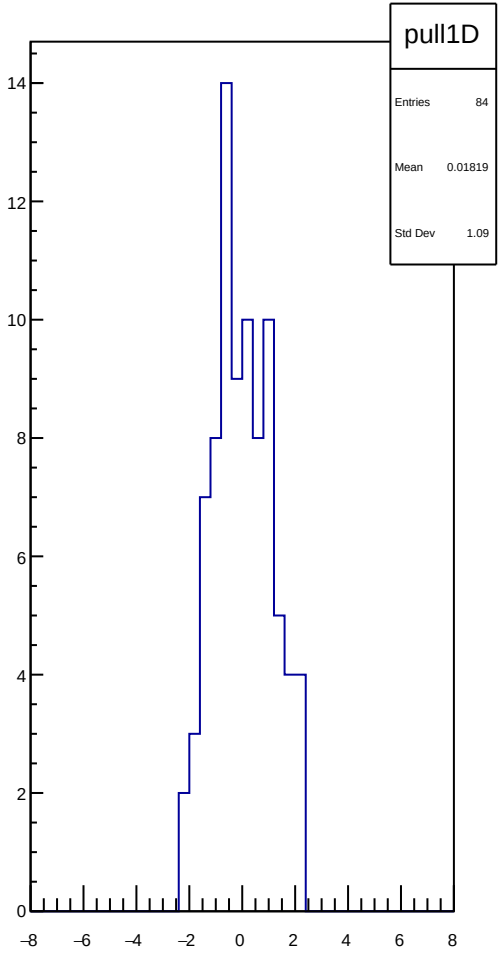

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 3072 / 83
p0 2225 ± 1.722
3000
2800
2600
2400
2200

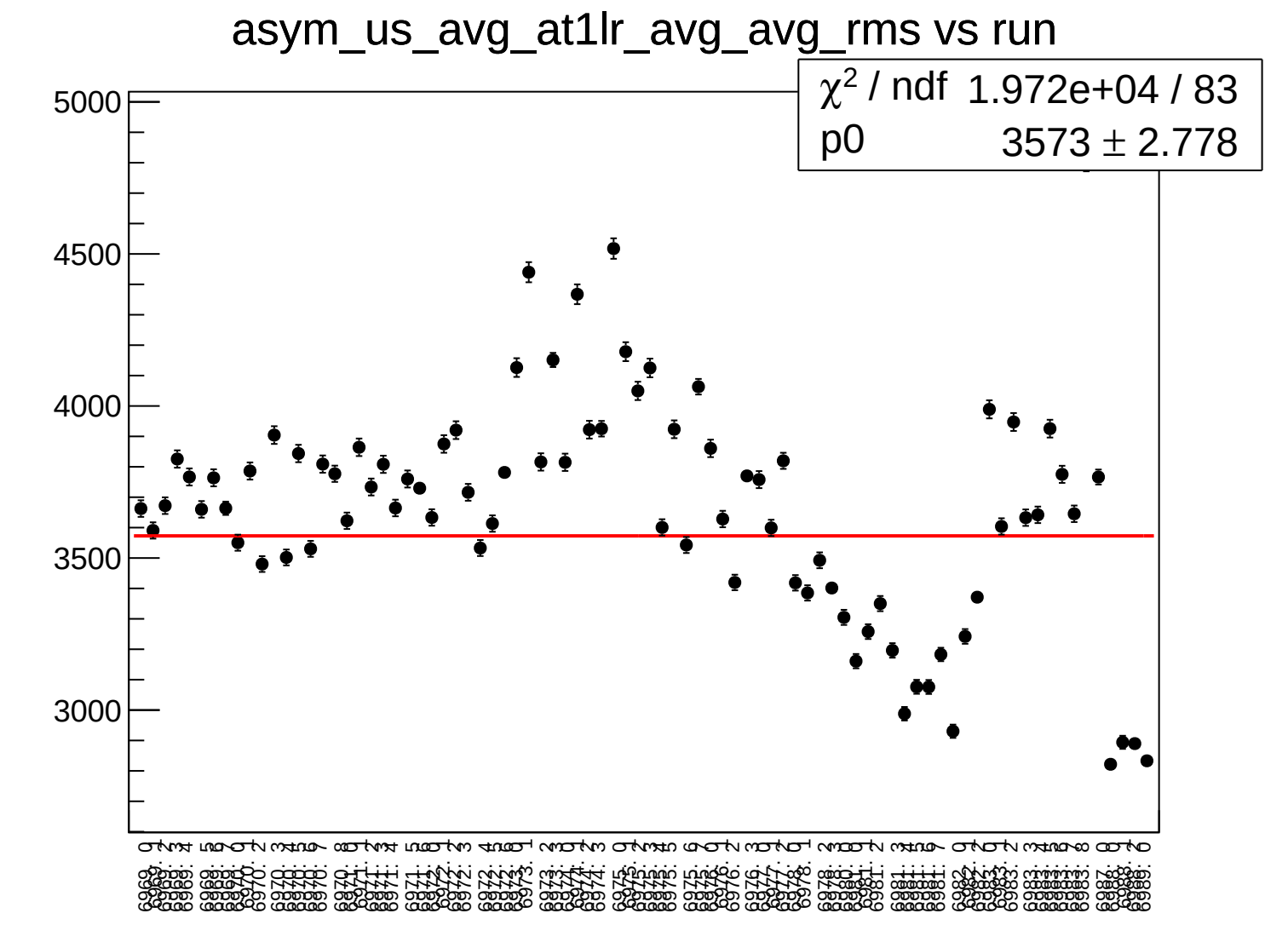

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 105.9 / 83
p0 −3941 ± 3151
100
50
0
−50
−100
−150
pull
Entries 84
Mean −45.14
Std Dev 0
2
1
0
−1
−2
−3

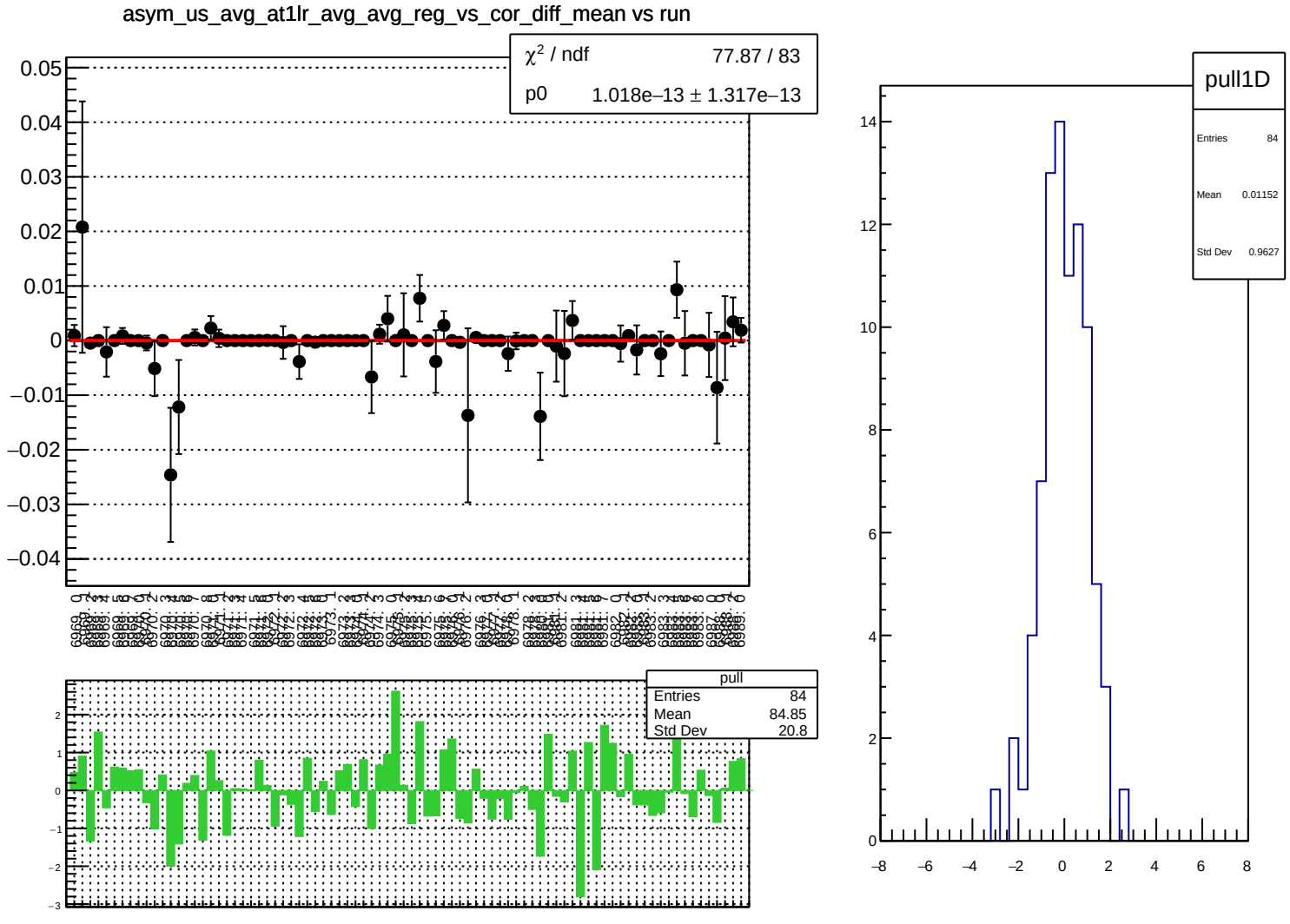

pull1D
Entries 84
Mean −0.0454
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

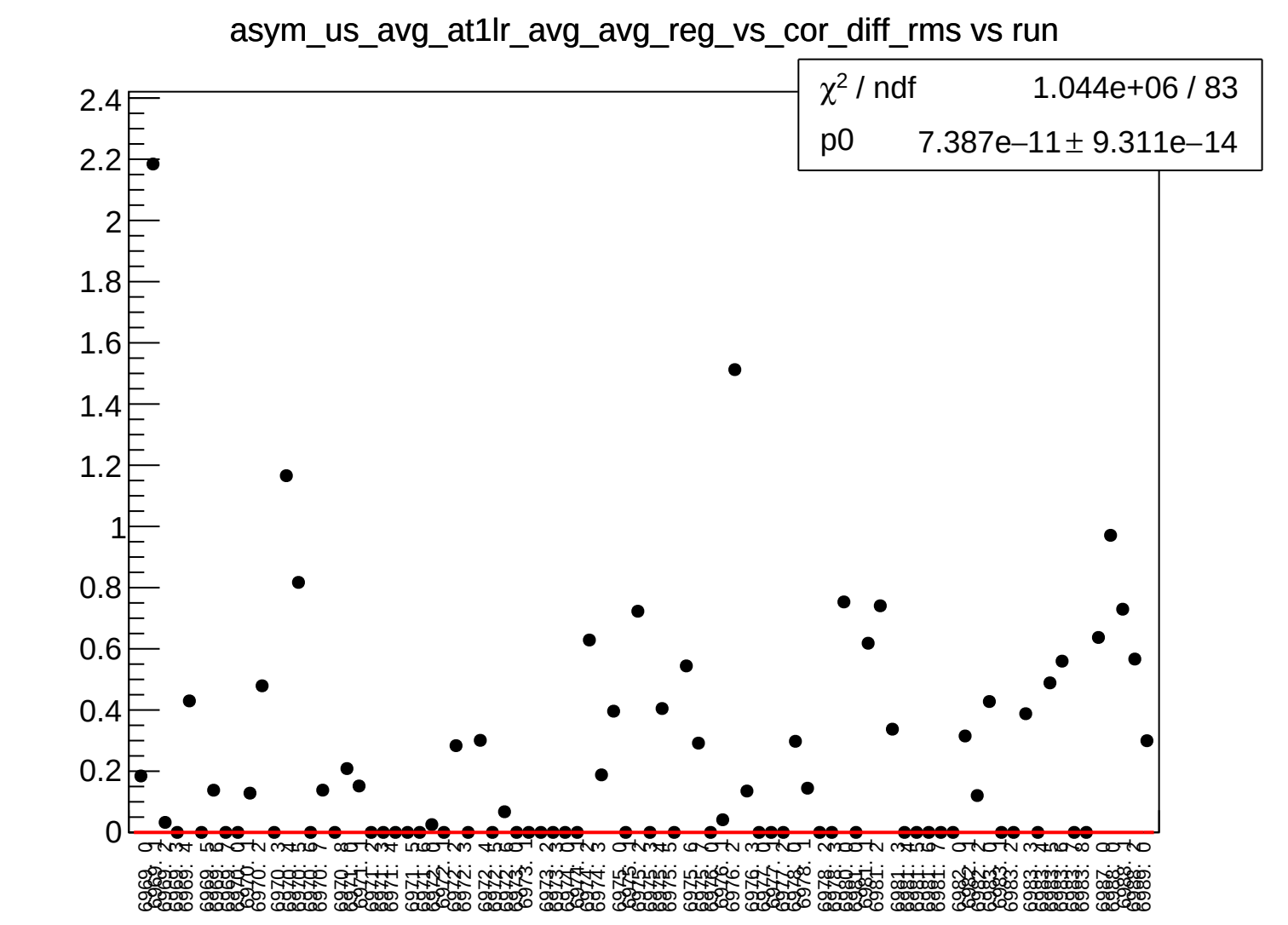

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.413e+04 / 83
p0 2835 ± 2.228
4000
3500
3000
2500
2000

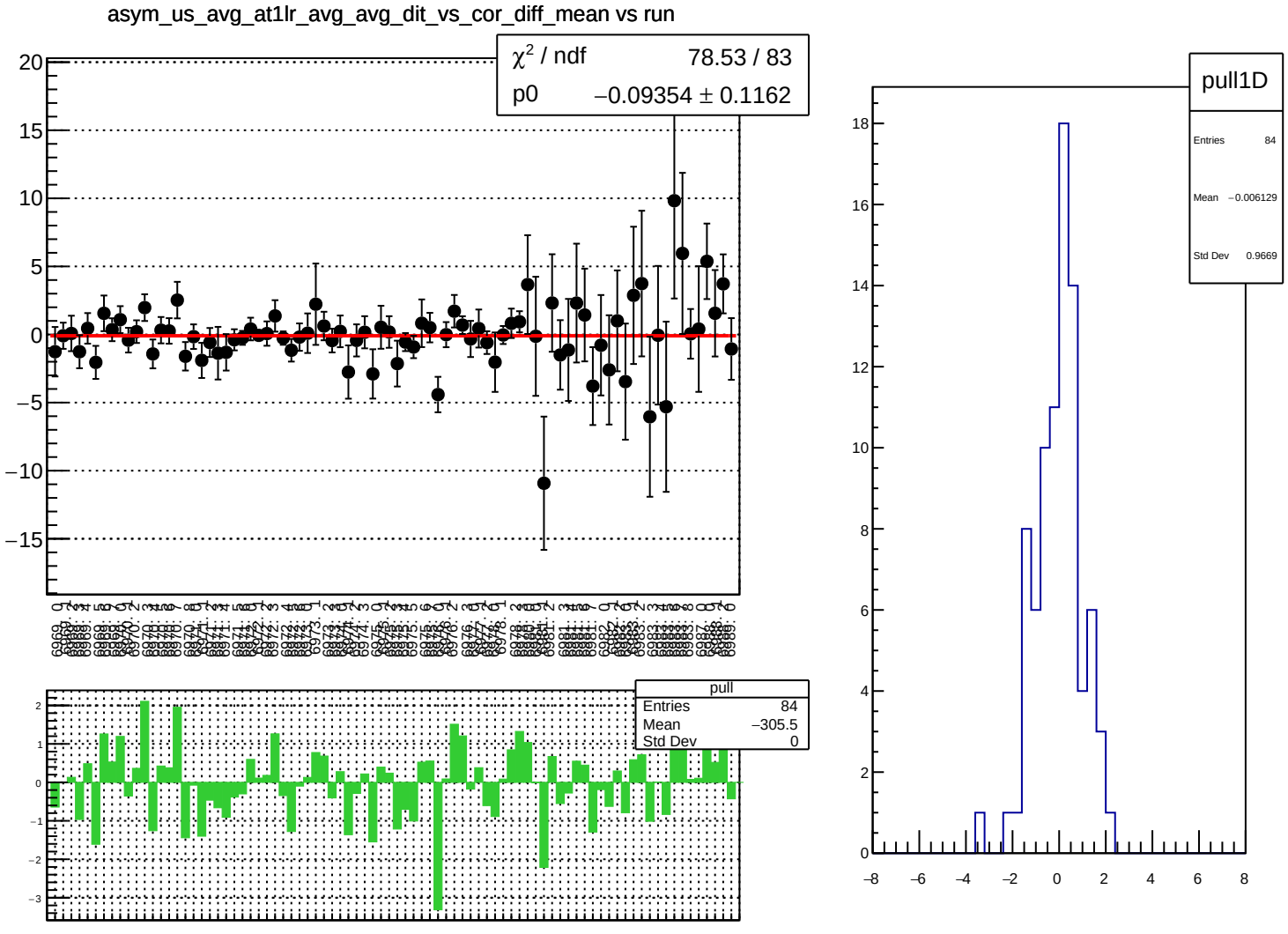

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 99.88 / 83
p0 9983 ± 3929
pull
Entries 84
Mean −168.2
Std Dev 0

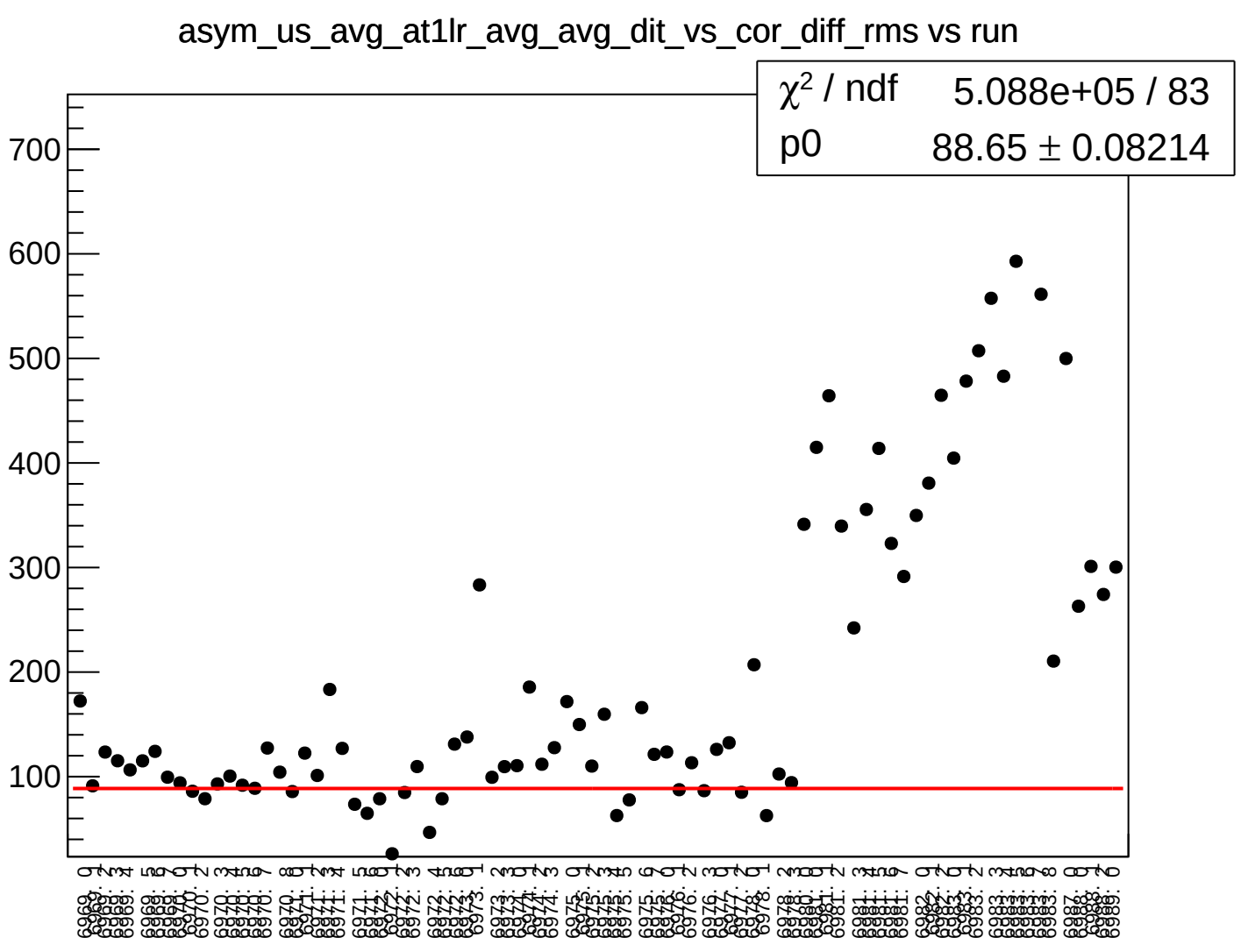

pull1D
Entries 84
Mean 0.01819
Std Dev 1.09

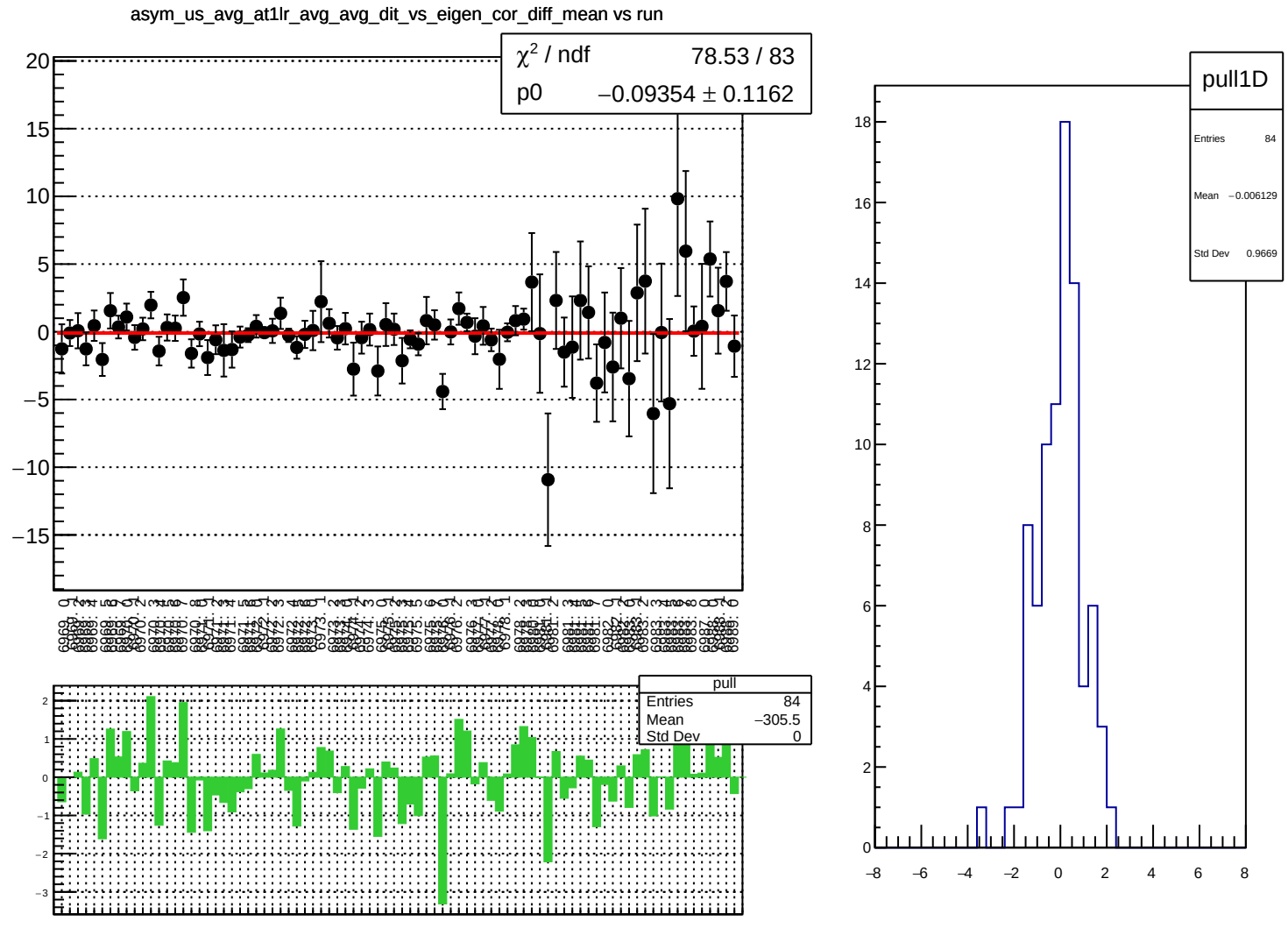

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1.972e+04 / 83
p0 3573 ± 2.778
5000
4500
4000
3500
3000

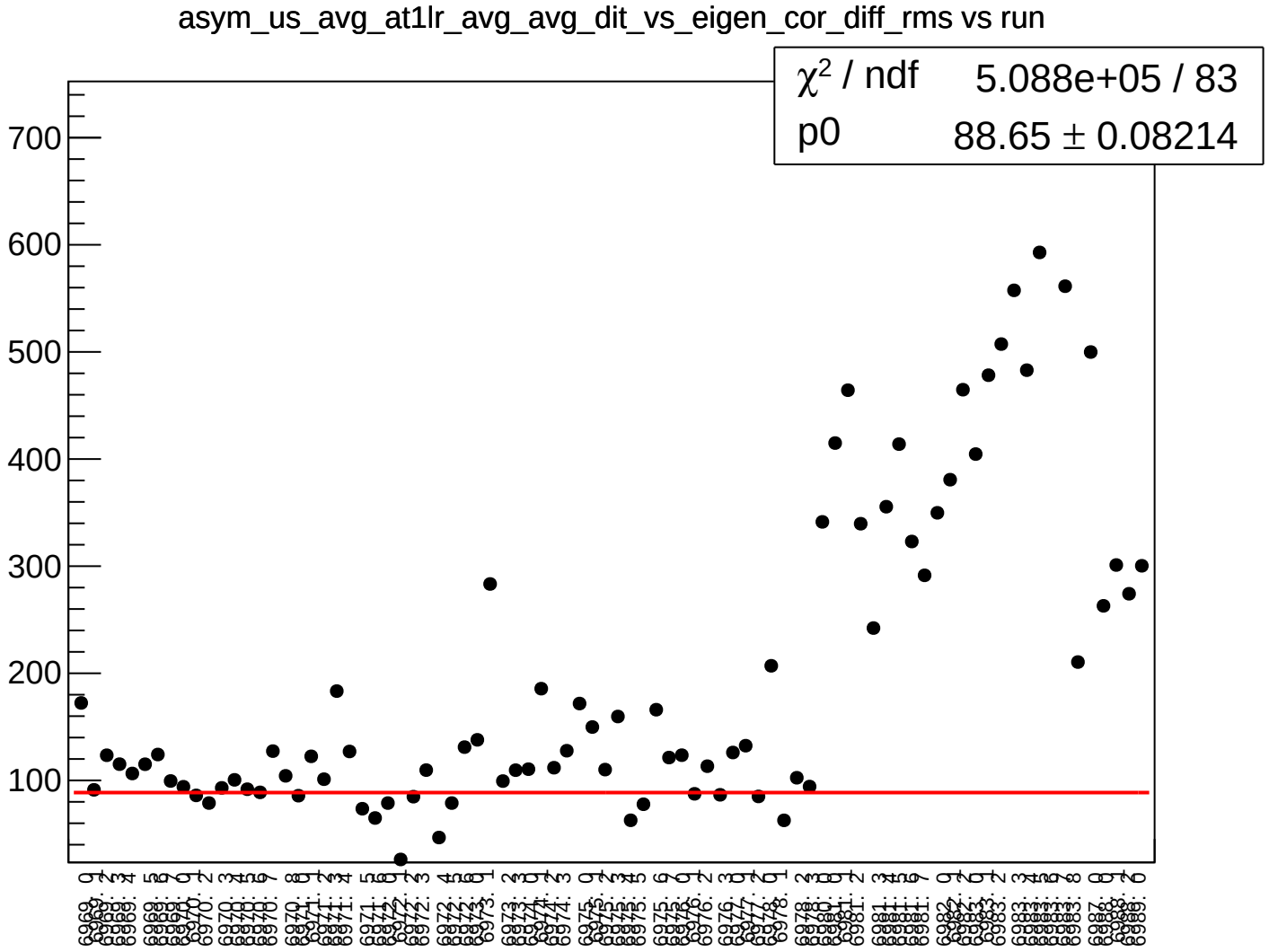

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.87 / 83
p0 1.018e−13 ± 1.317e−13
pull
Entries 84
Mean 84.85
Std Dev 20.8
pull1D
Entries 84
Mean 0.01152
Std Dev 0.9627

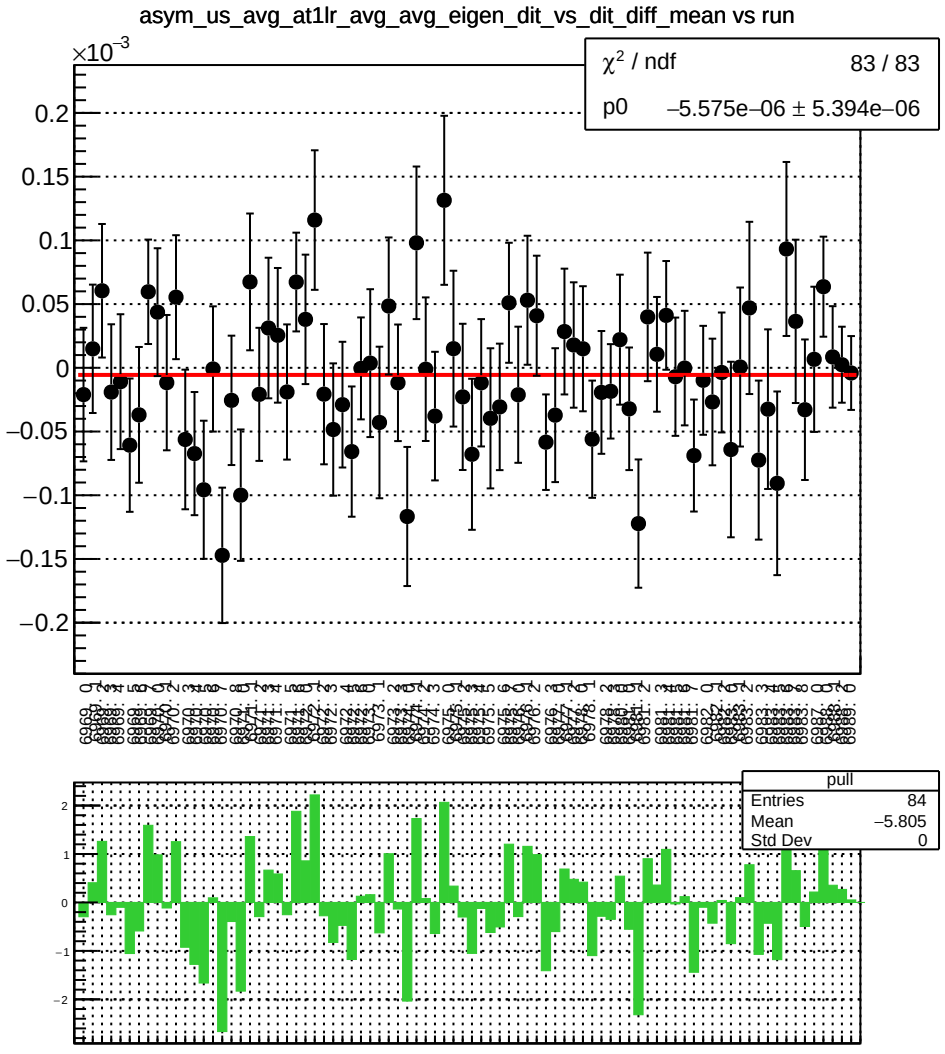

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.044e+06 / 83
p0 7.387e−11 ± 9.311e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

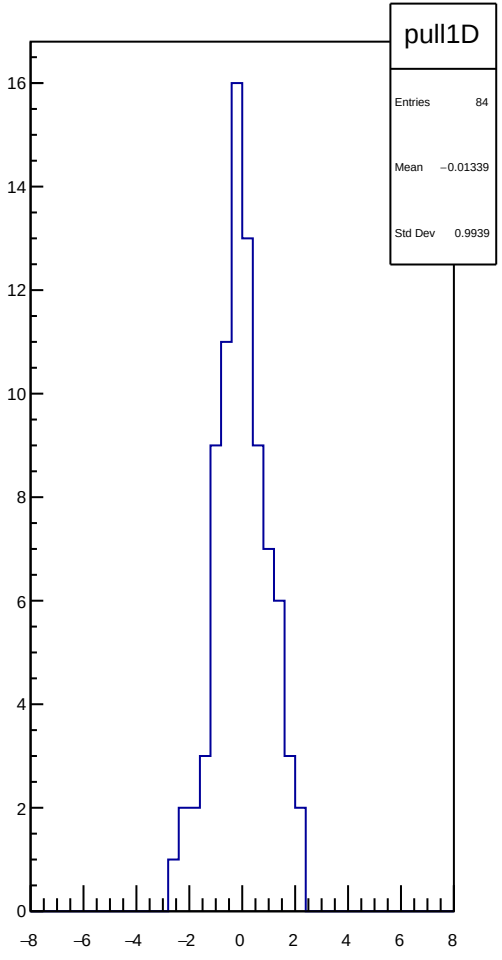

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.53 / 83
p0 −0.09354 ± 0.1162
pull
Entries 84
Mean −305.5
Std Dev 0
pull1D
Entries 84
Mean −0.006129
Std Dev 0.9669

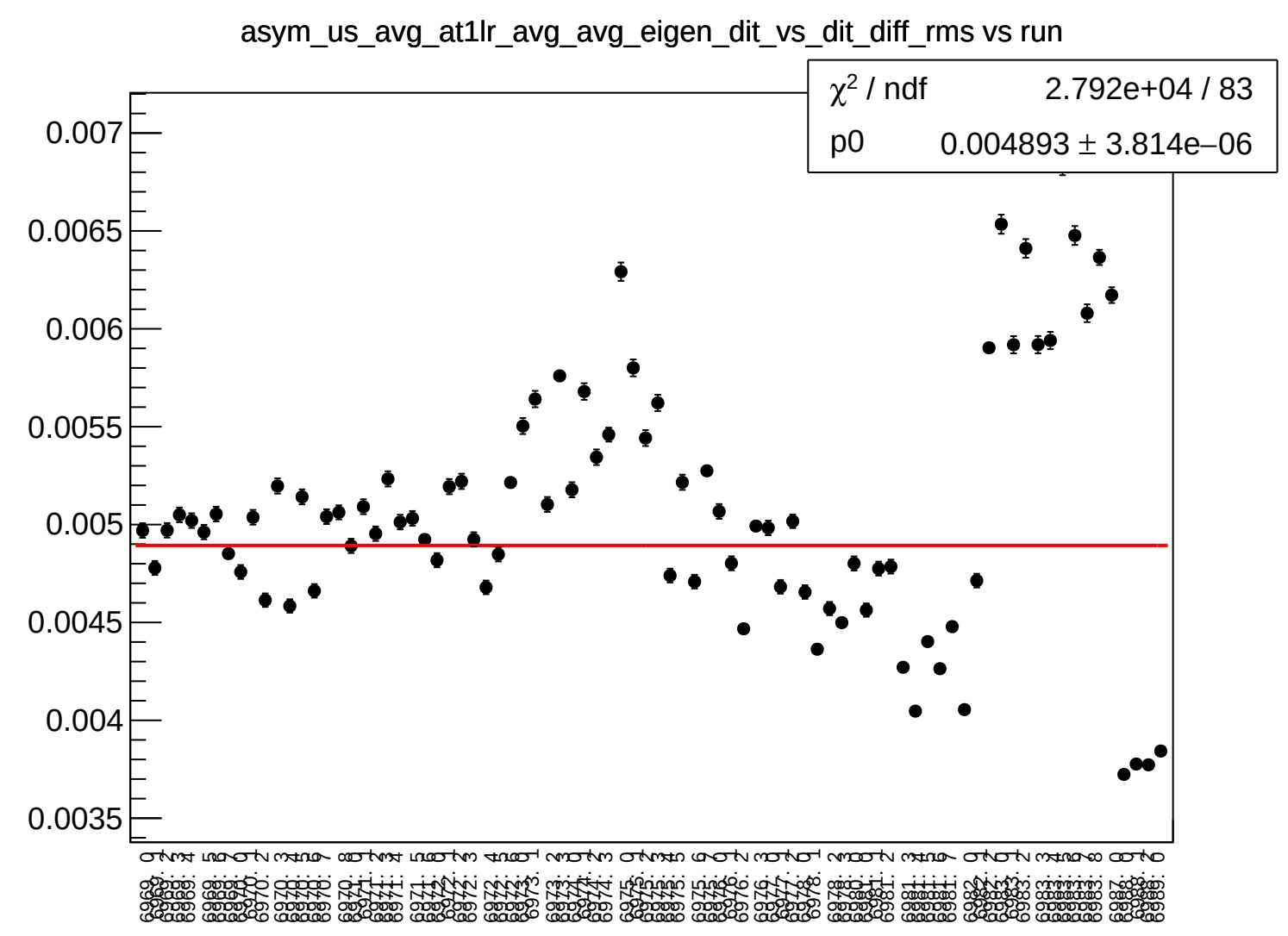

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.088e+05 / 83
p0 88.65 ± 0.08214
700
600
500
400
300
200
100

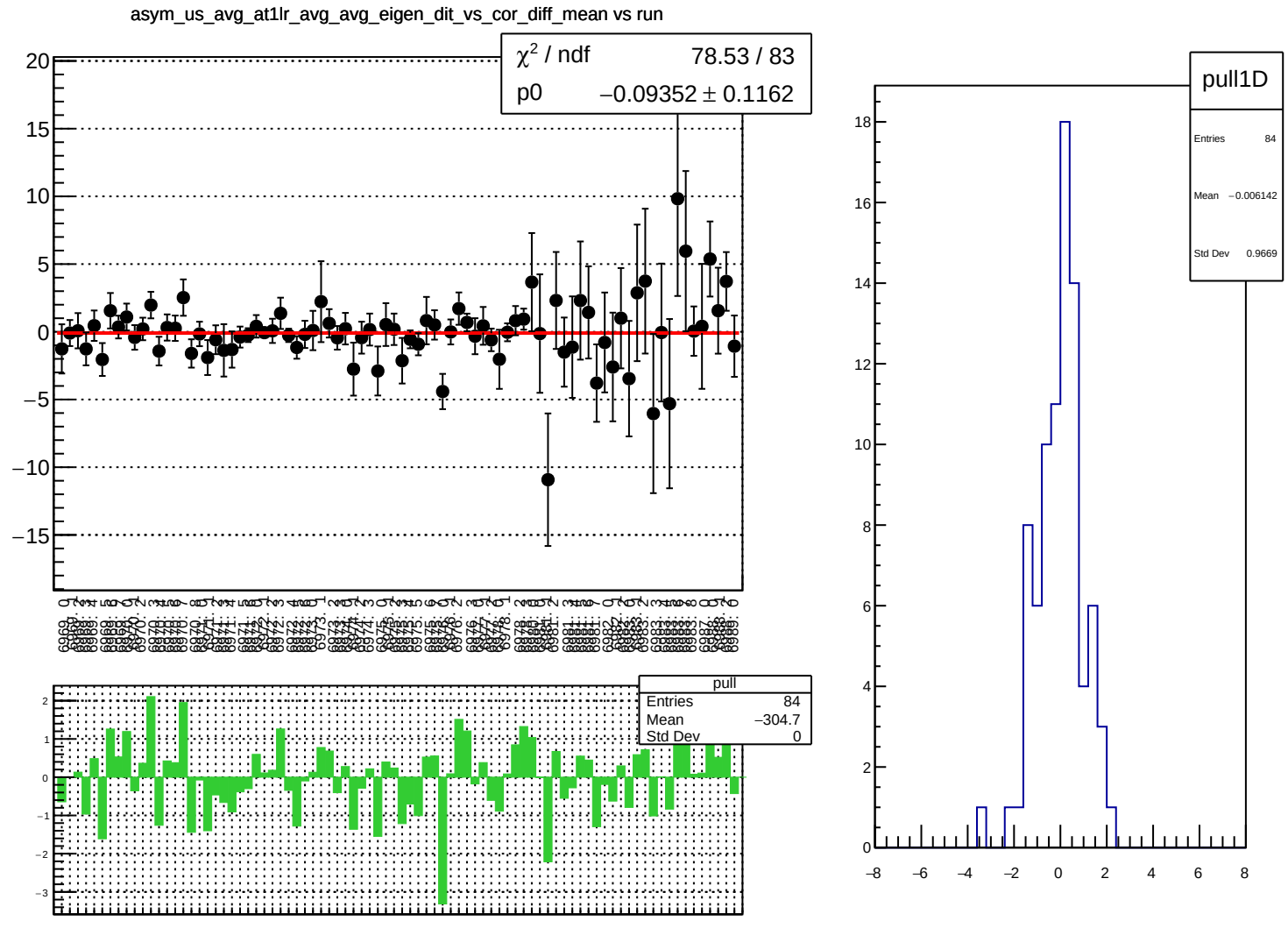

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.53 / 83
p0 −0.09354 ± 0.1162
pull
Entries 84
Mean −305.5
Std Dev 0
pull1D
Entries 84
Mean −0.006129
Std Dev 0.9669

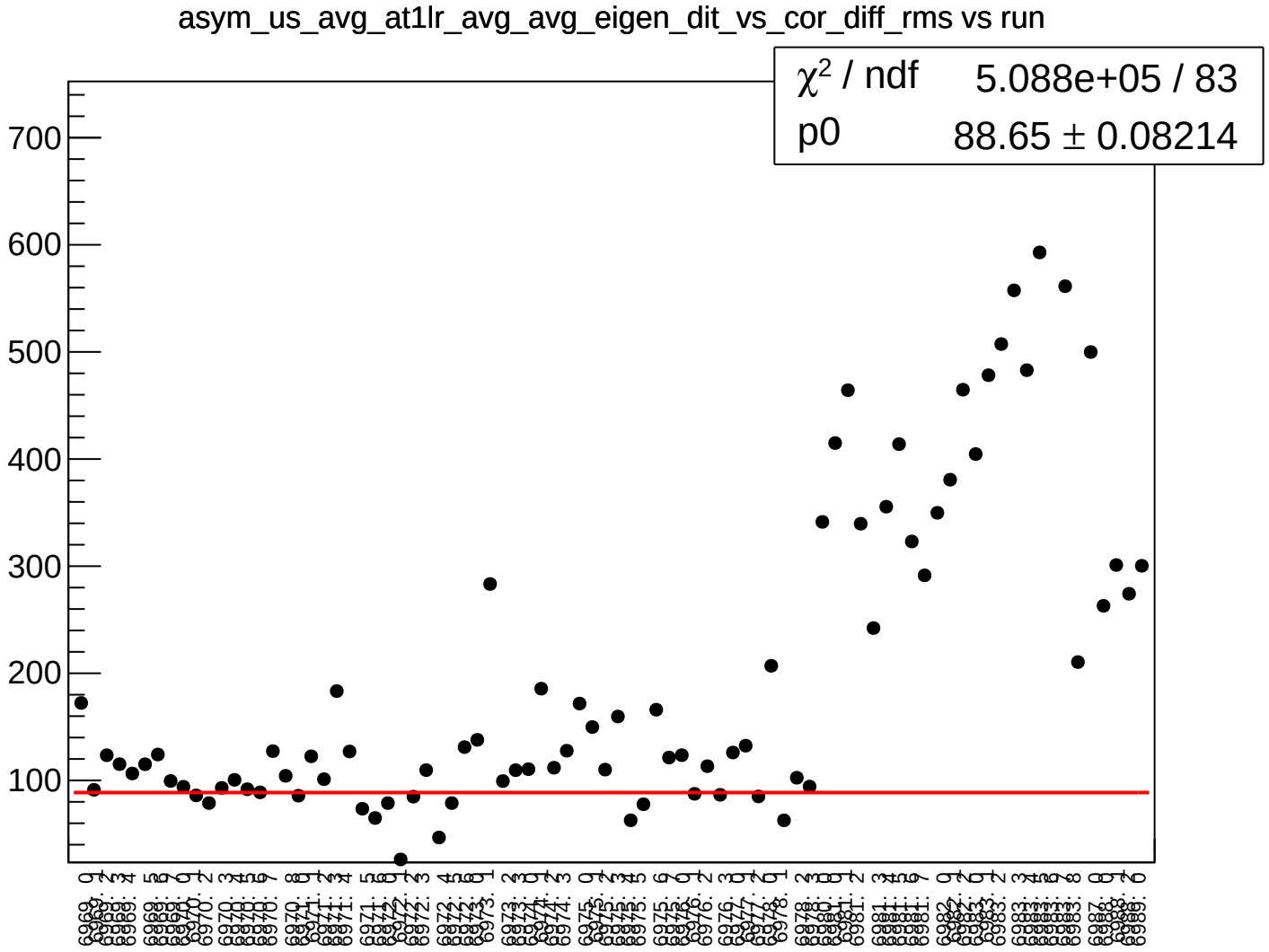

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.088e+05 / 83
p0 88.65 ± 0.08214
700
600
500
400
300
200
100

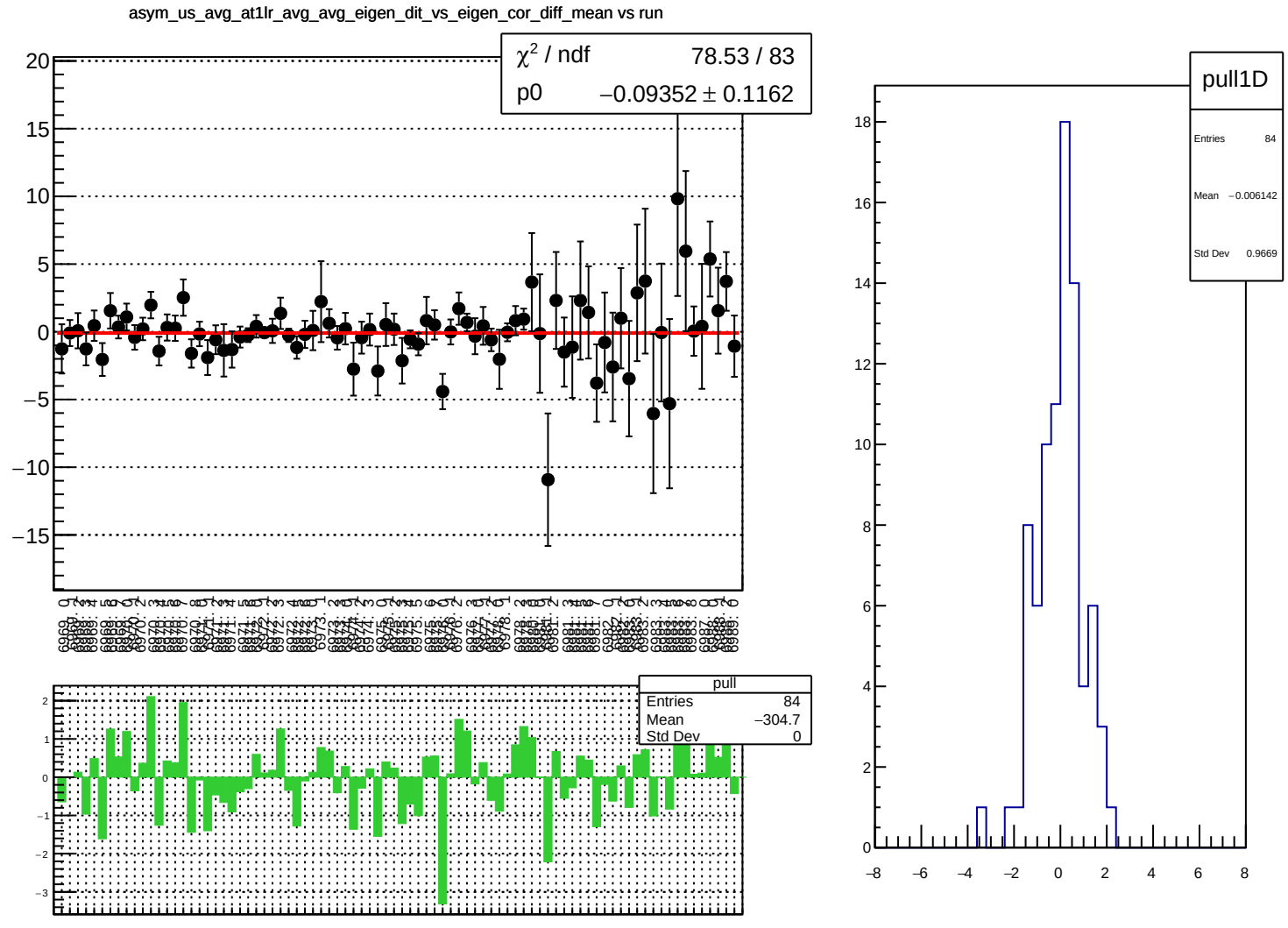

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83 / 83
p0 −5.575e−06 ± 5.394e−06
pull
Entries 84
Mean −5.805
Std Dev 0

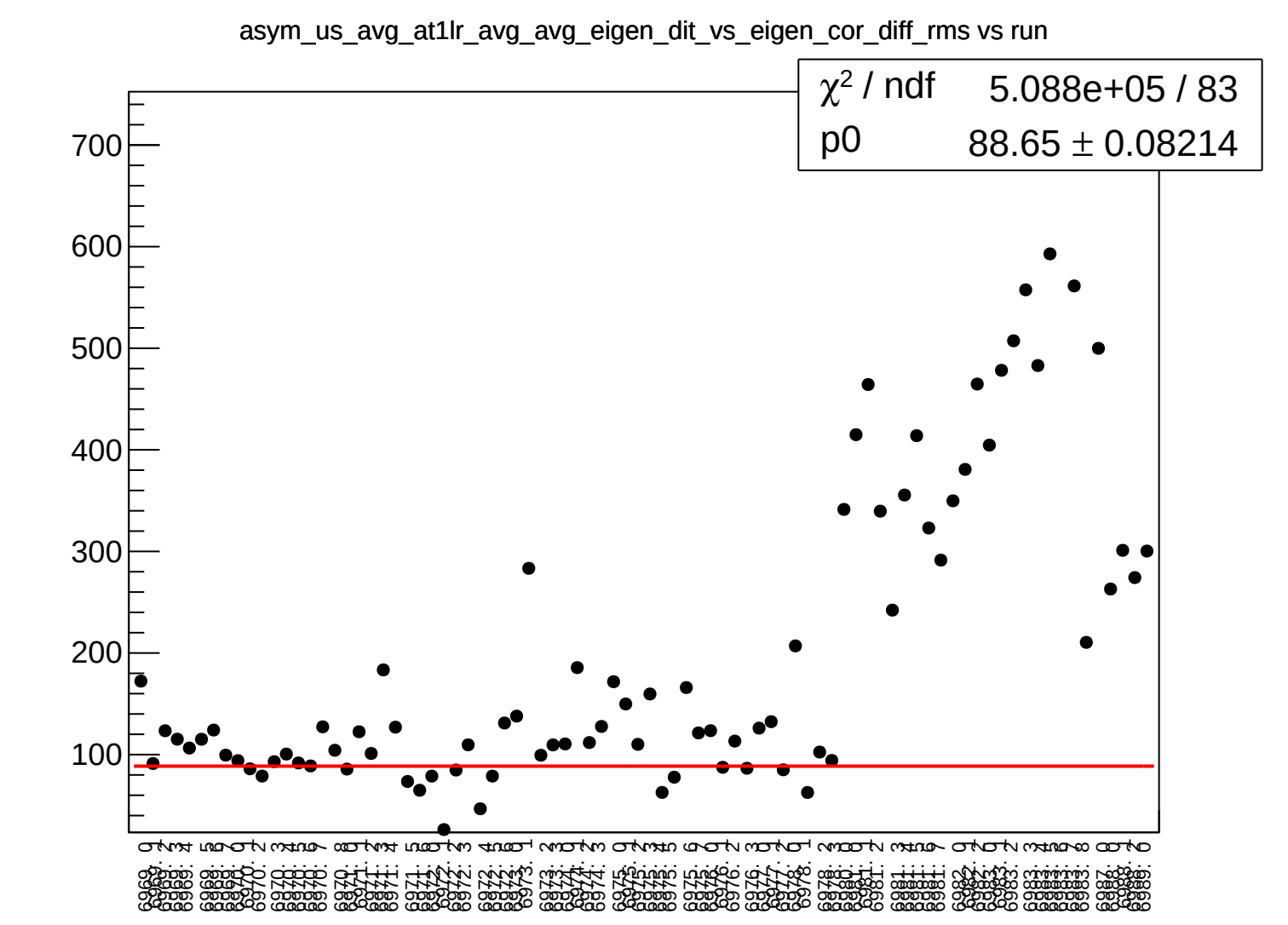

pull1D
Entries 84
Mean −0.01339
Std Dev 0.9939

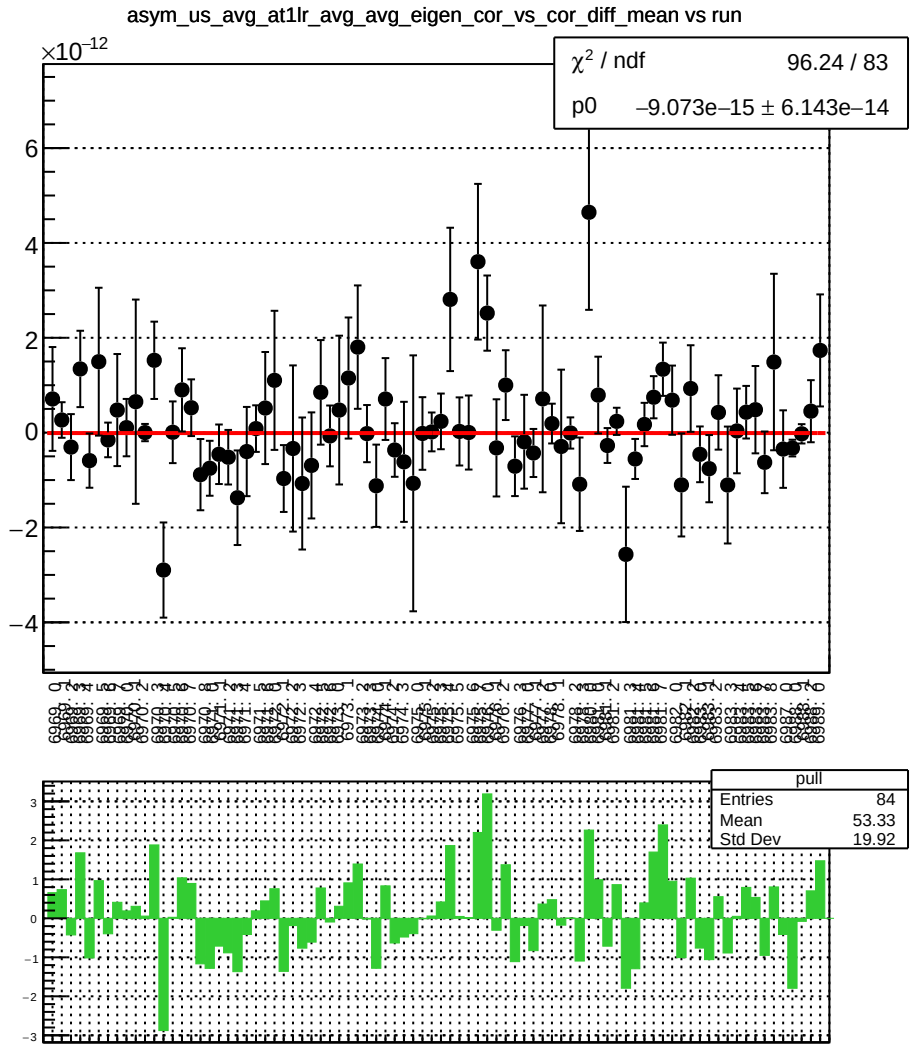

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.792e+04 / 83
p0 0.004893 ± 3.814e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

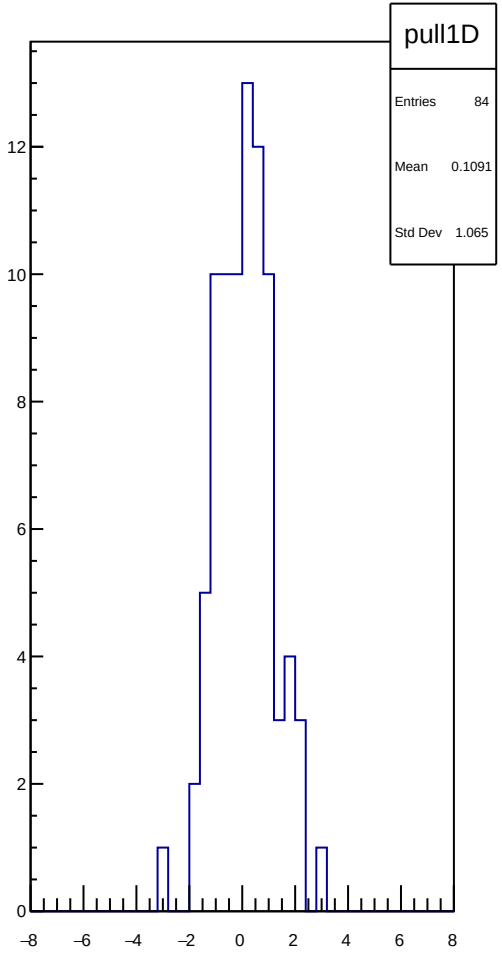

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.53 / 83
p0 −0.09352 ± 0.1162
pull
Entries 84
Mean −304.7
Std Dev 0
pull1D
Entries 84
Mean −0.006142
Std Dev 0.9669

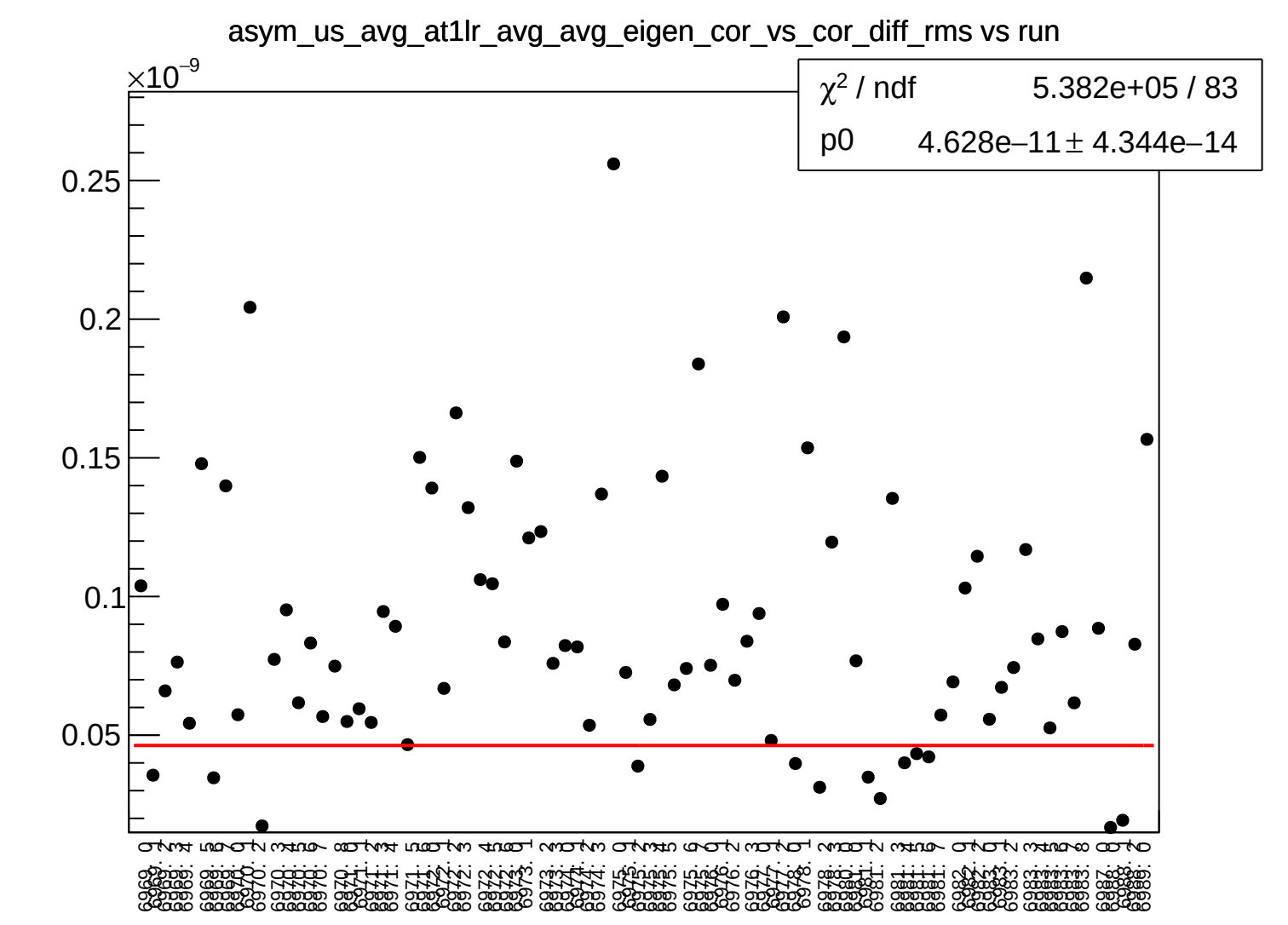

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.088e+05 / 83
p0 88.65 ± 0.08214
700
600
500
400
300
200
100

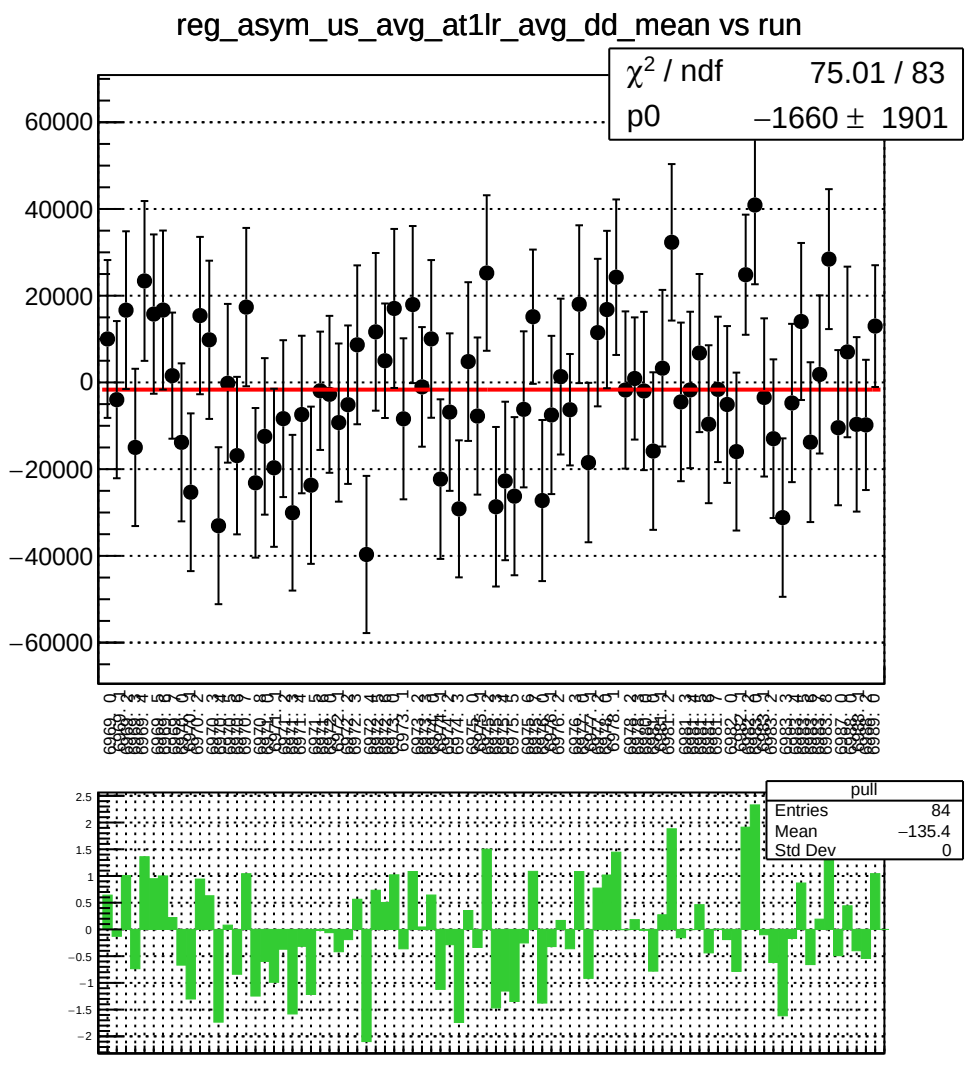

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.53 / 83
p0 −0.09352 ± 0.1162
pull
Entries 84
Mean −304.7
Std Dev 0
pull1D
Entries 84
Mean −0.006142
Std Dev 0.9669

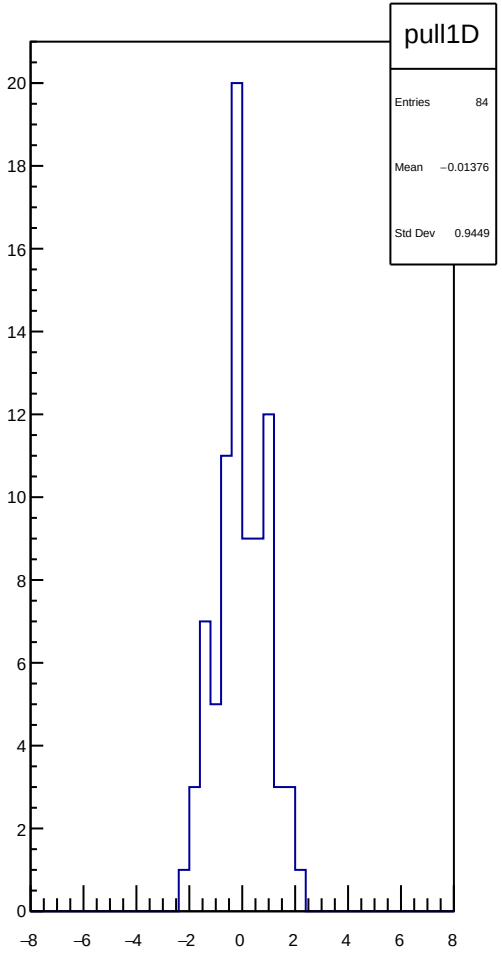

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.088e+05 / 83
p0 88.65 ± 0.08214
700
600
500
400
300
200
100

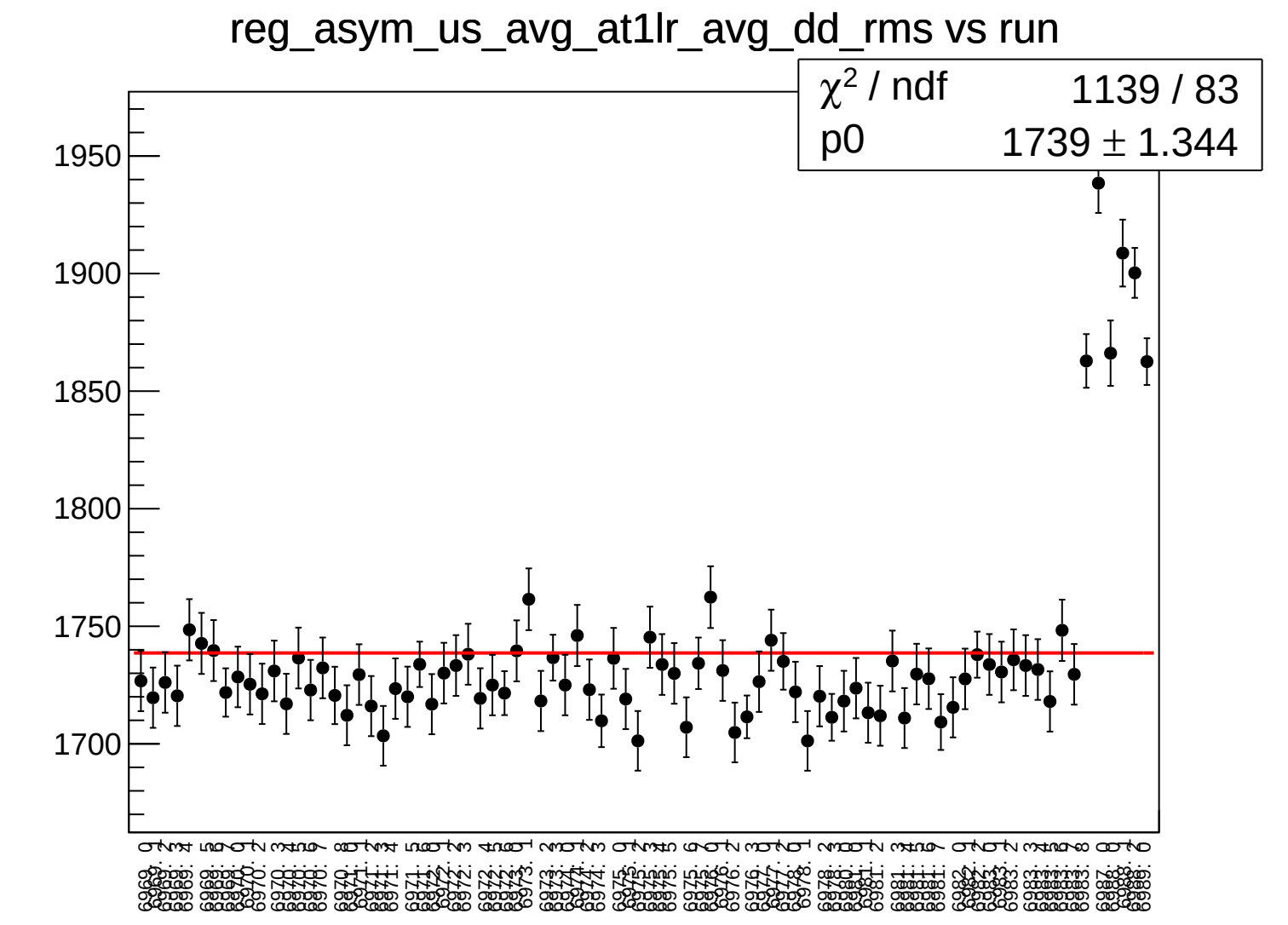

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.24 / 83
p0 −9.073e−15 ± 6.143e−14
pull
Entries 84
Mean 53.33
Std Dev 19.92

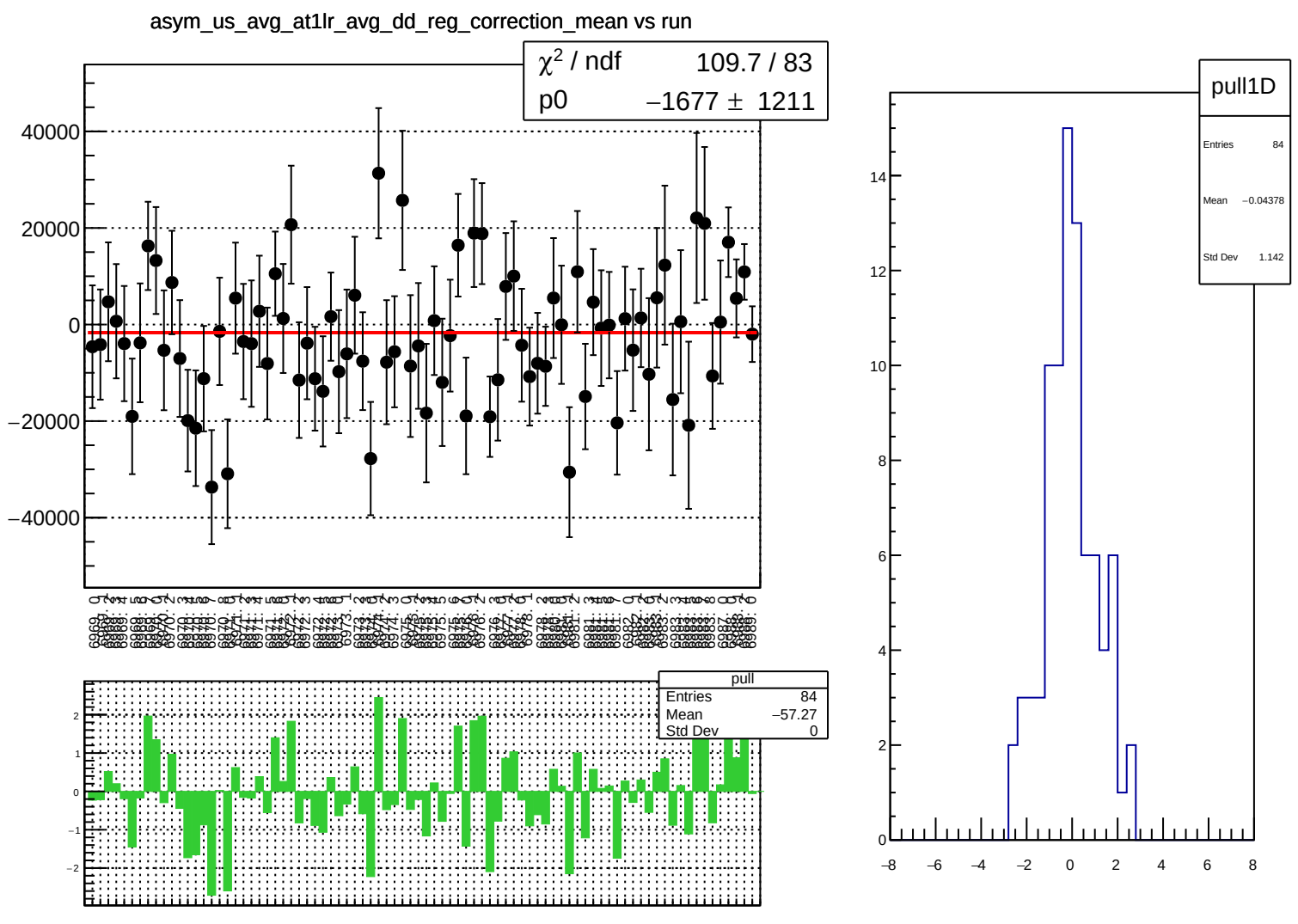

pull1D
Entries 84
Mean 0.1091
Std Dev 1.065

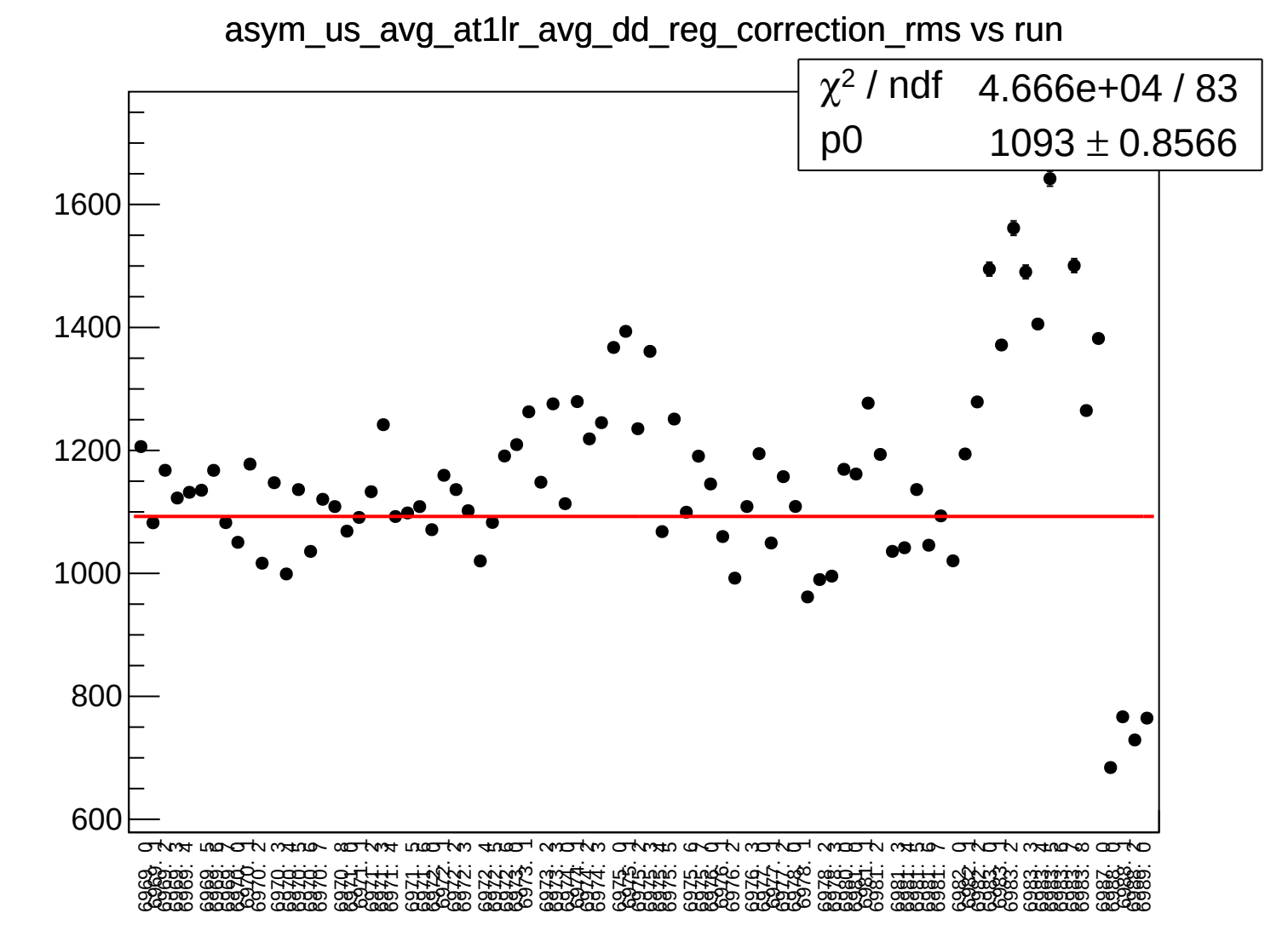

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.382e+05 / 83
p0 4.628e−11 ± 4.344e−14
0.25
0.2
0.15
0.1
0.05

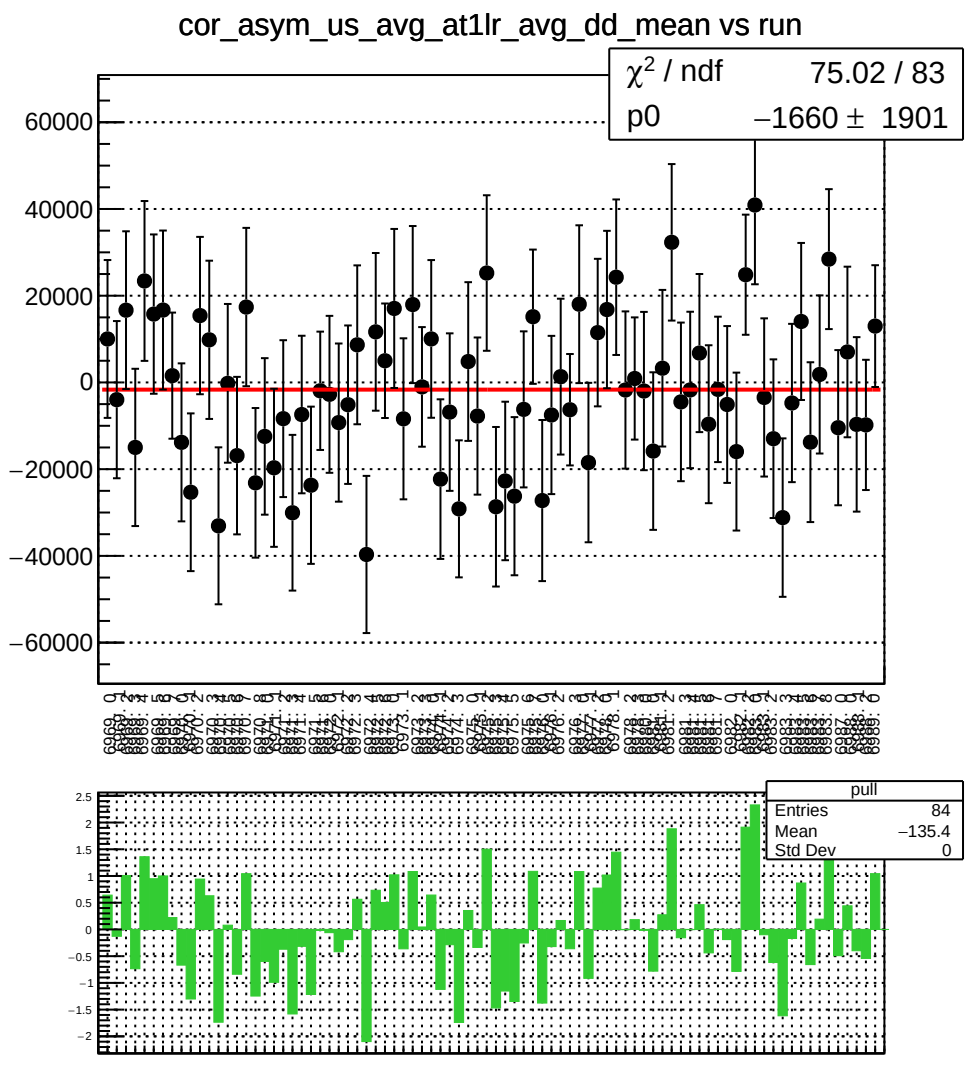

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.01 / 83
p0 −1660 ± 1901
pull
Entries 84
Mean −135.4
Std Dev 0

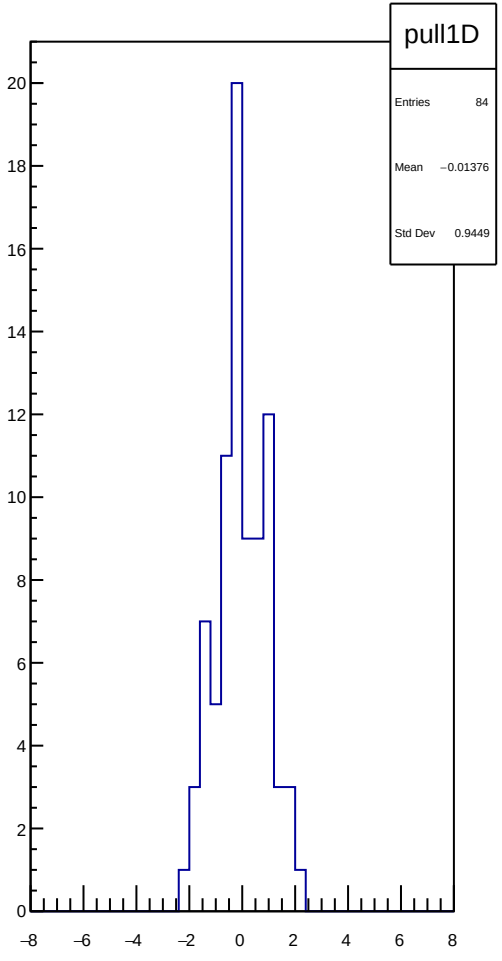

pull1D
Entries 84
Mean −0.01376
Std Dev 0.9449

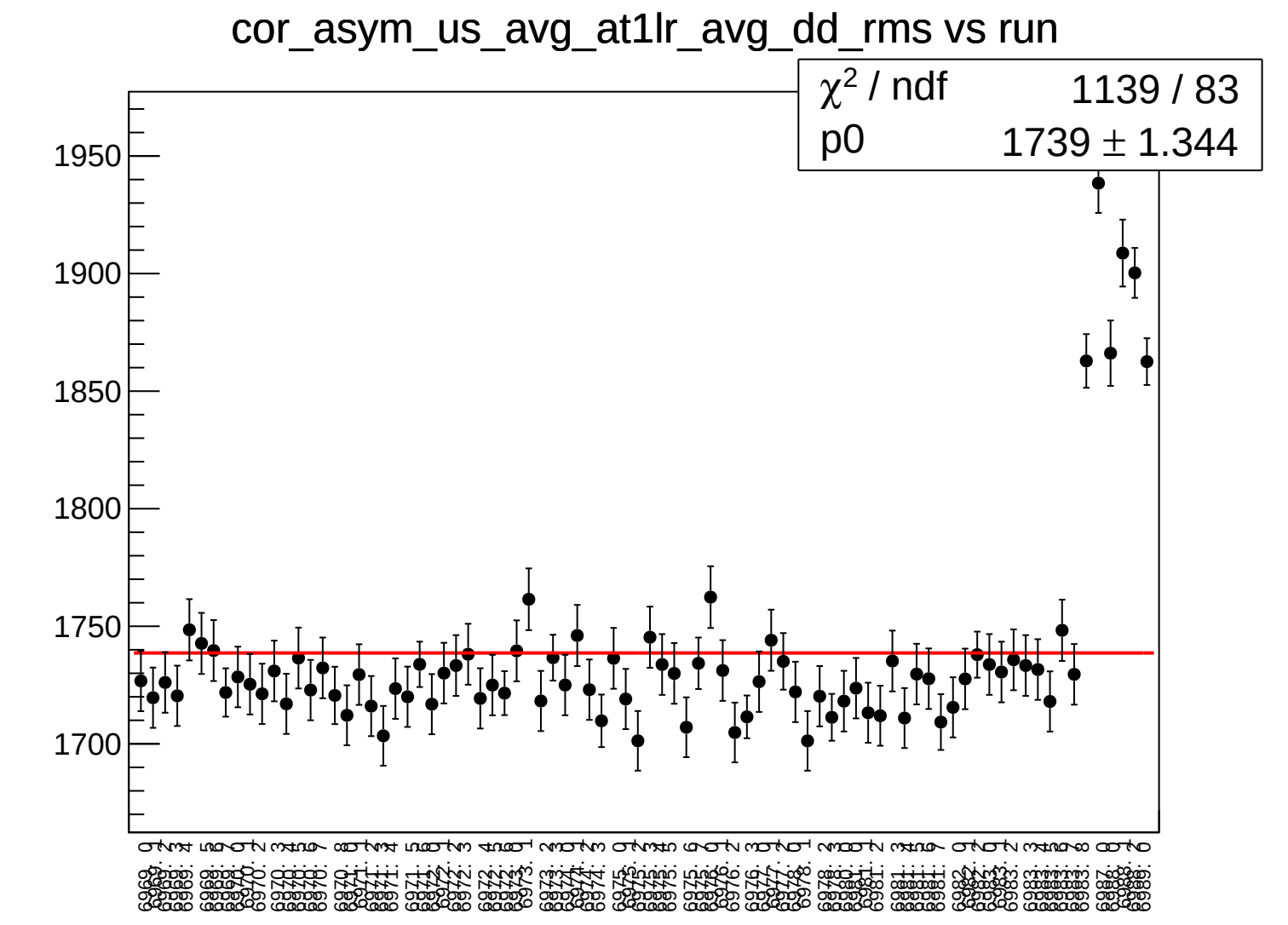

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 1139 / 83
p0 1739 ± 1.344
1950
1900
1850
1800
1750
1700

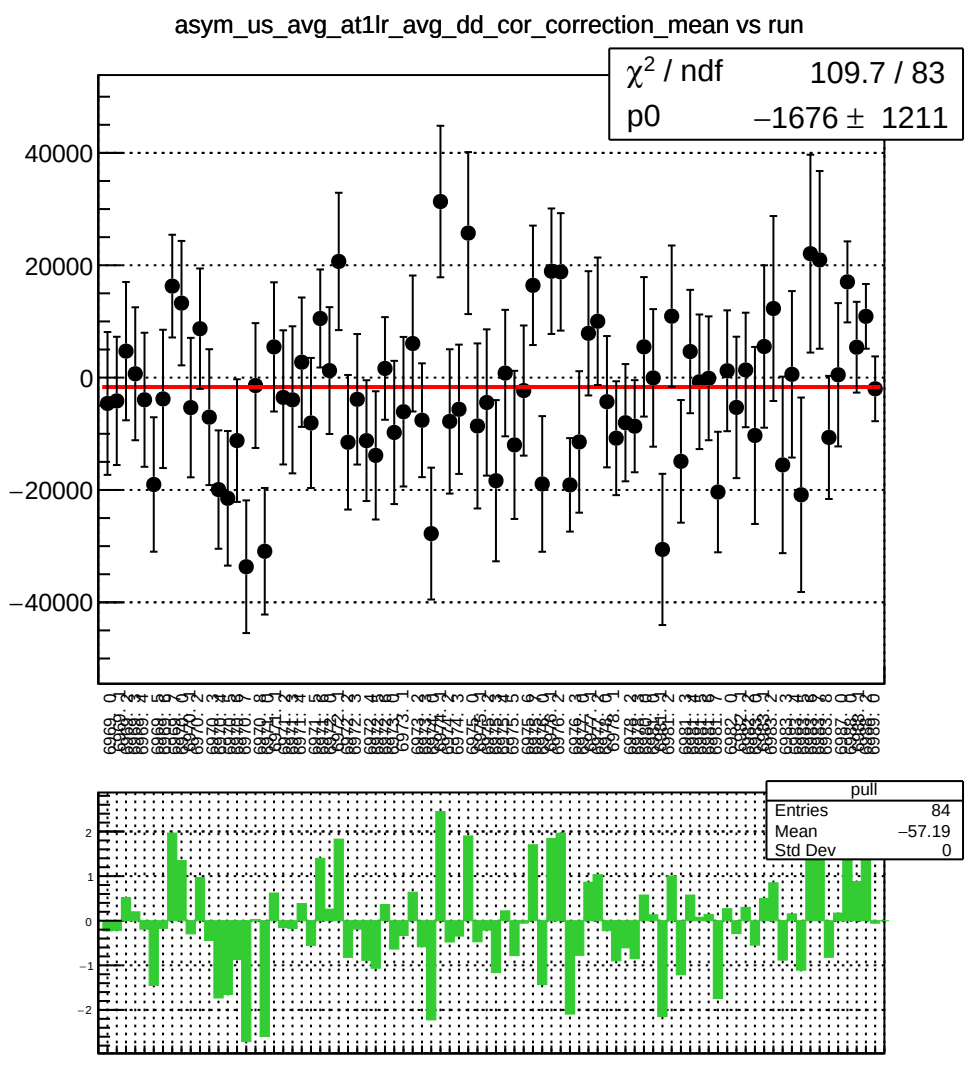

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 109.7 / 83
p0 −1677 ± 1211
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −57.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.04378
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

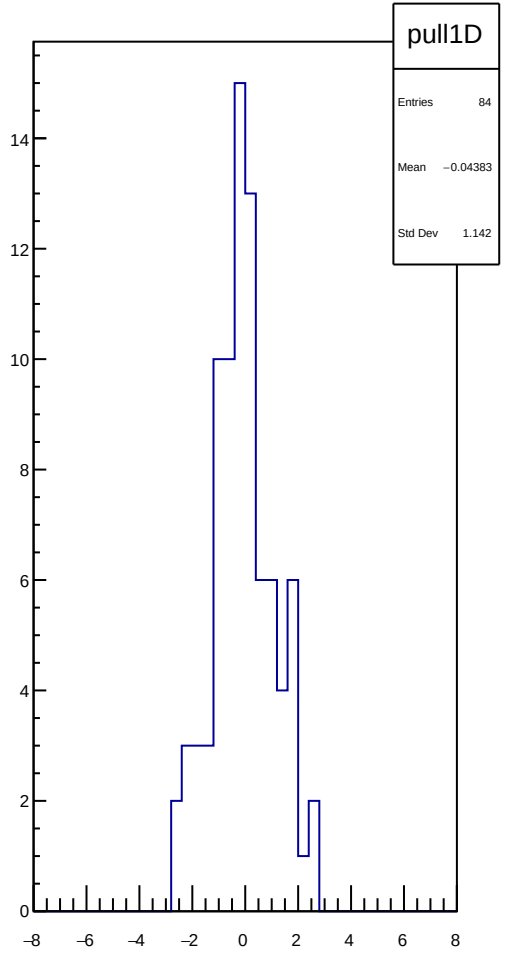

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 4.666e+04 / 83
p0 1093 ± 0.8566
1600
1400
1200
1000
800
600

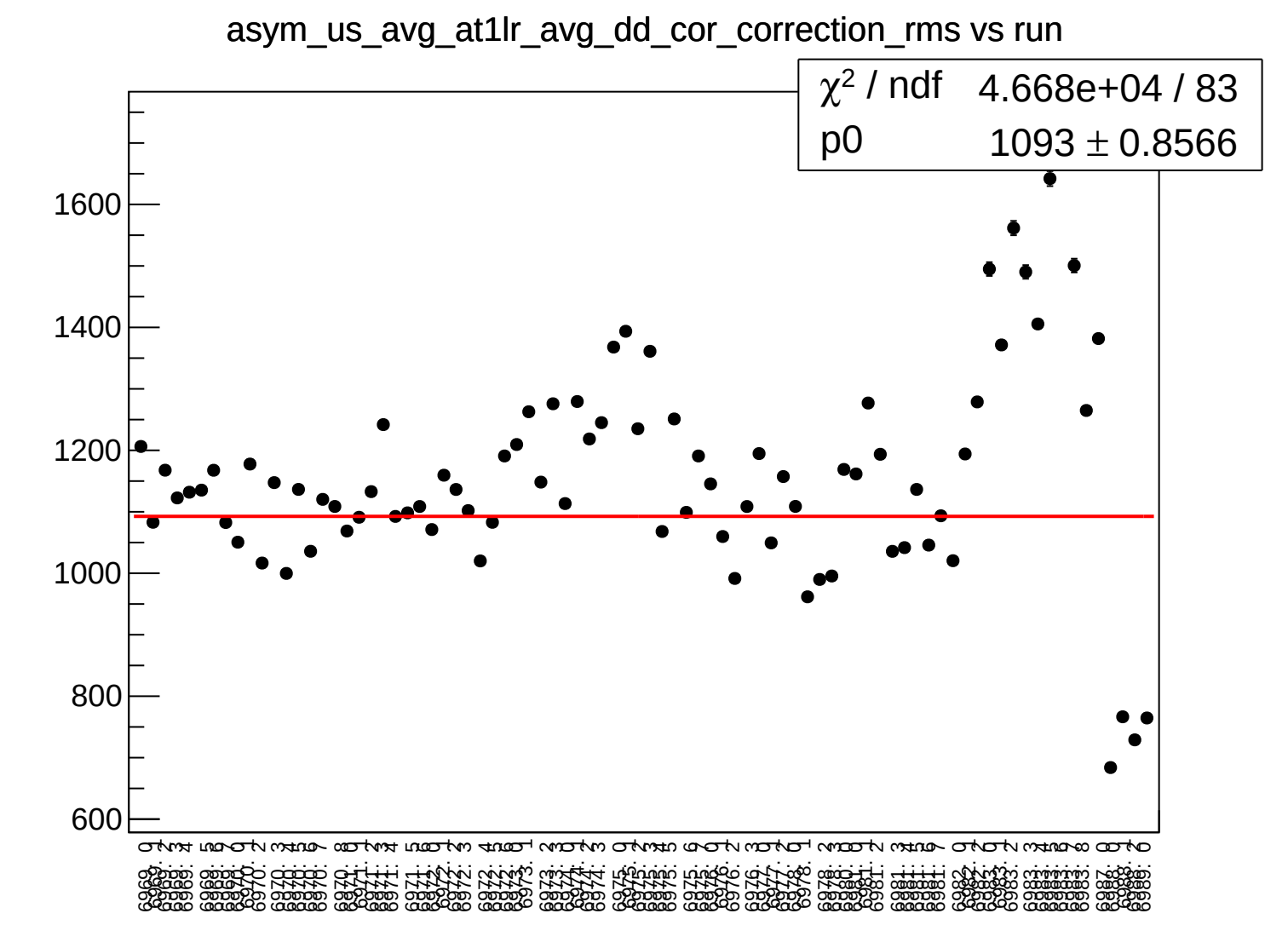

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.02 / 83
p0 −1660 ± 1901
pull
Entries 84
Mean −135.4
Std Dev 0

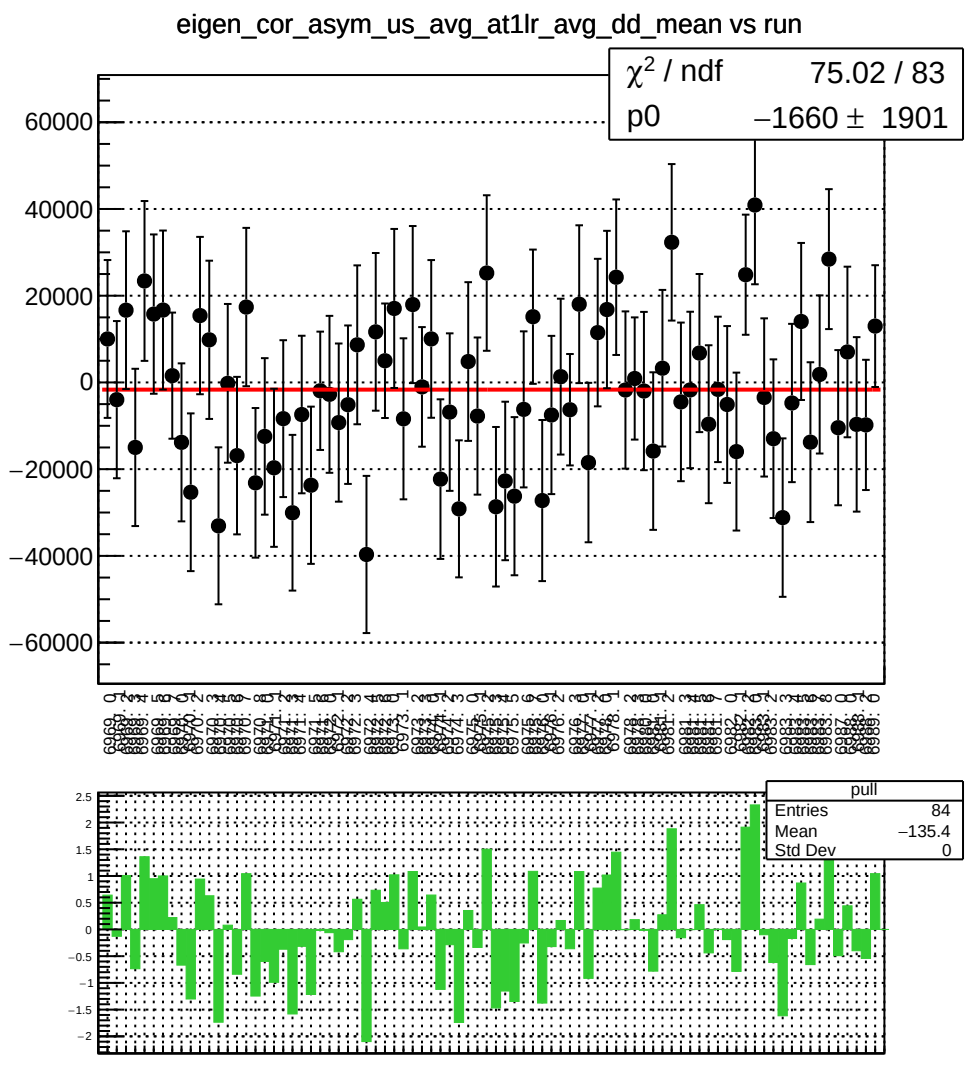

pull1D
Entries 84
Mean −0.01376
Std Dev 0.9449

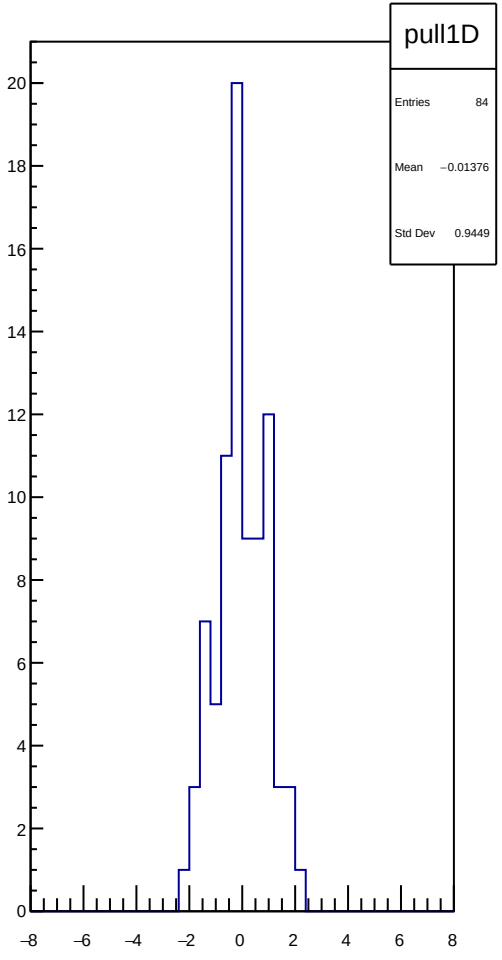

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 1139 / 83
p0 1739 ± 1.344
1950
1900
1850
1800
1750
1700

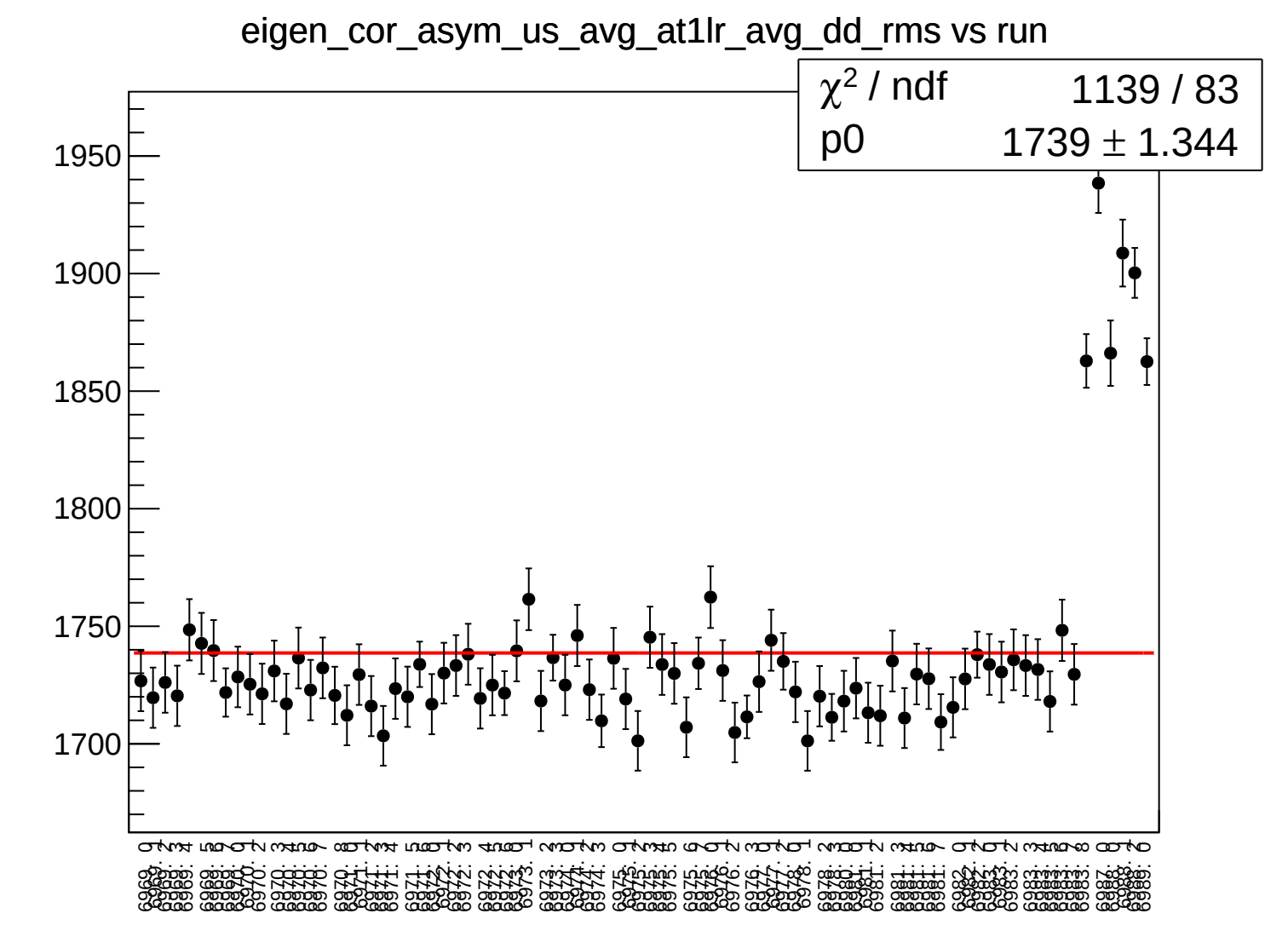

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 109.7 / 83
p0 −1676 ± 1211
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −57.19
Std Dev 0
2
1
0
−1
−2

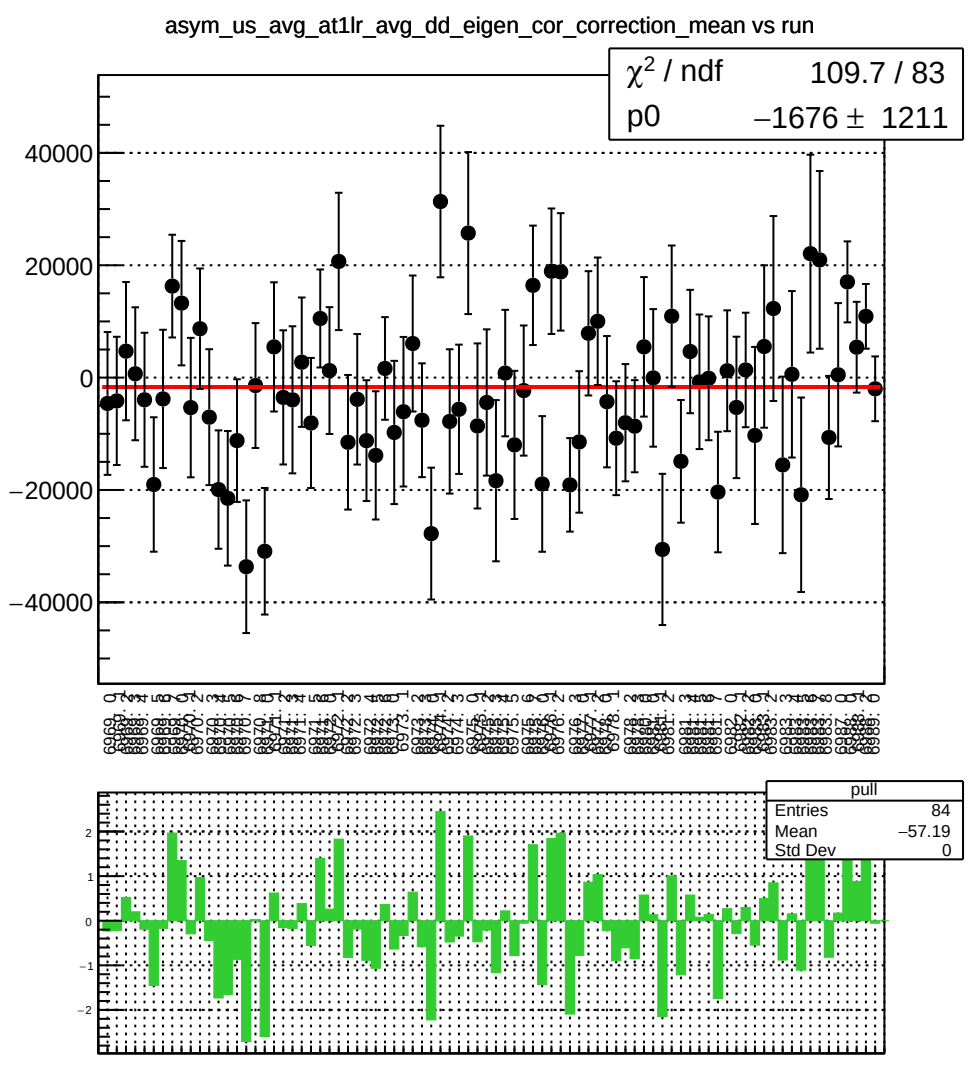

pull1D
Entries 84
Mean −0.04383
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

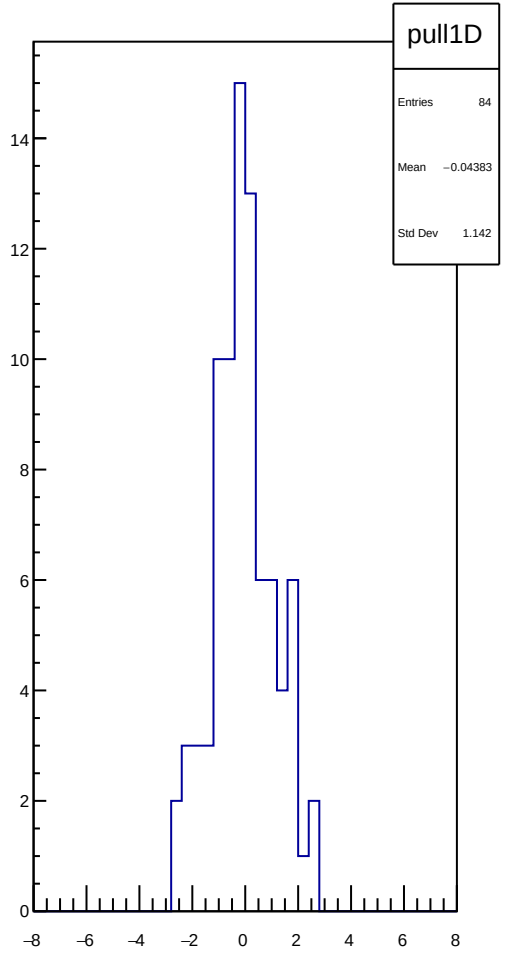

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 4.668e+04 / 83
p0 1093 ± 0.8566
1600
1400
1200
1000
800
600

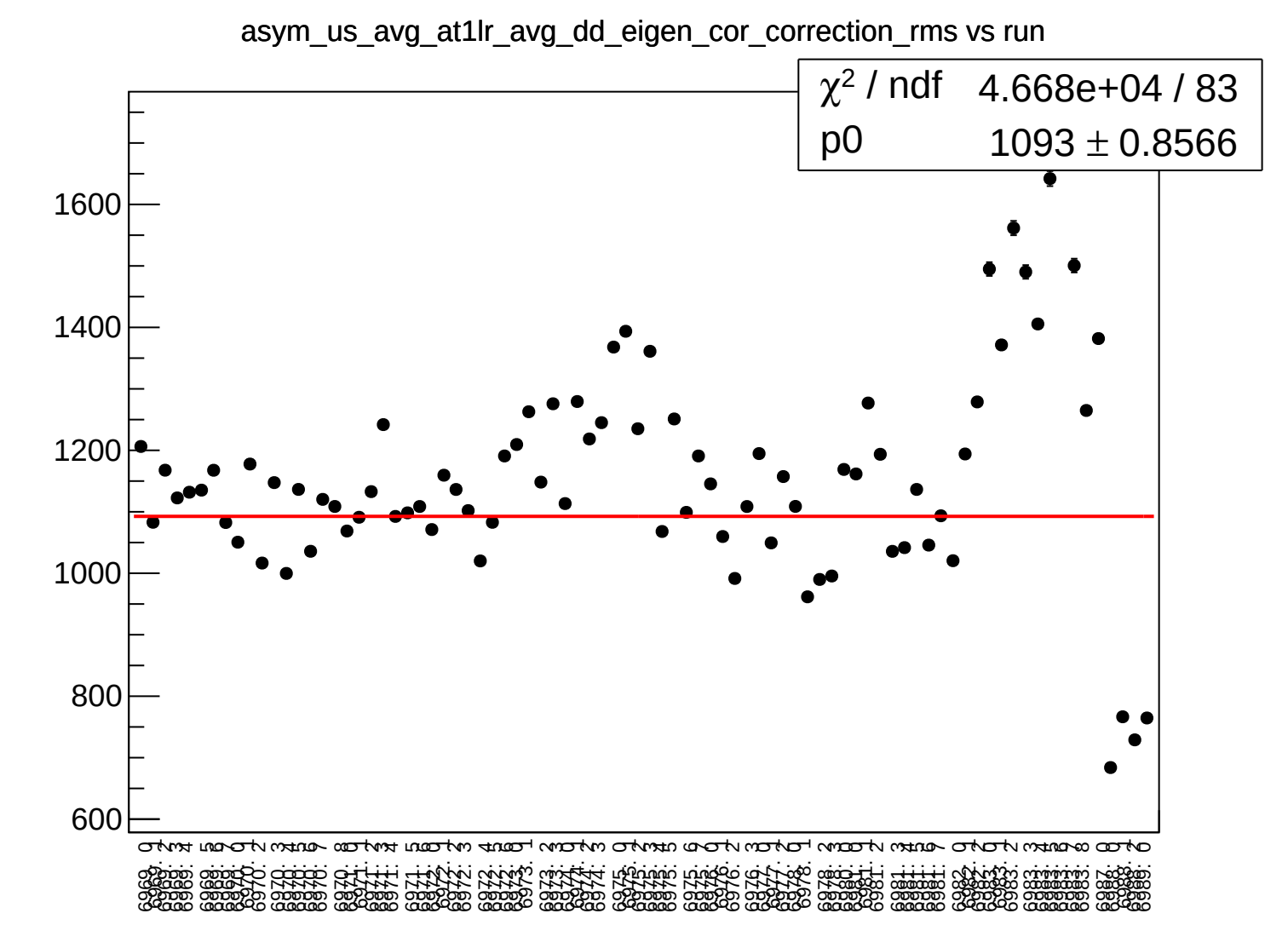

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.02 / 83
p0 −1660 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −135.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

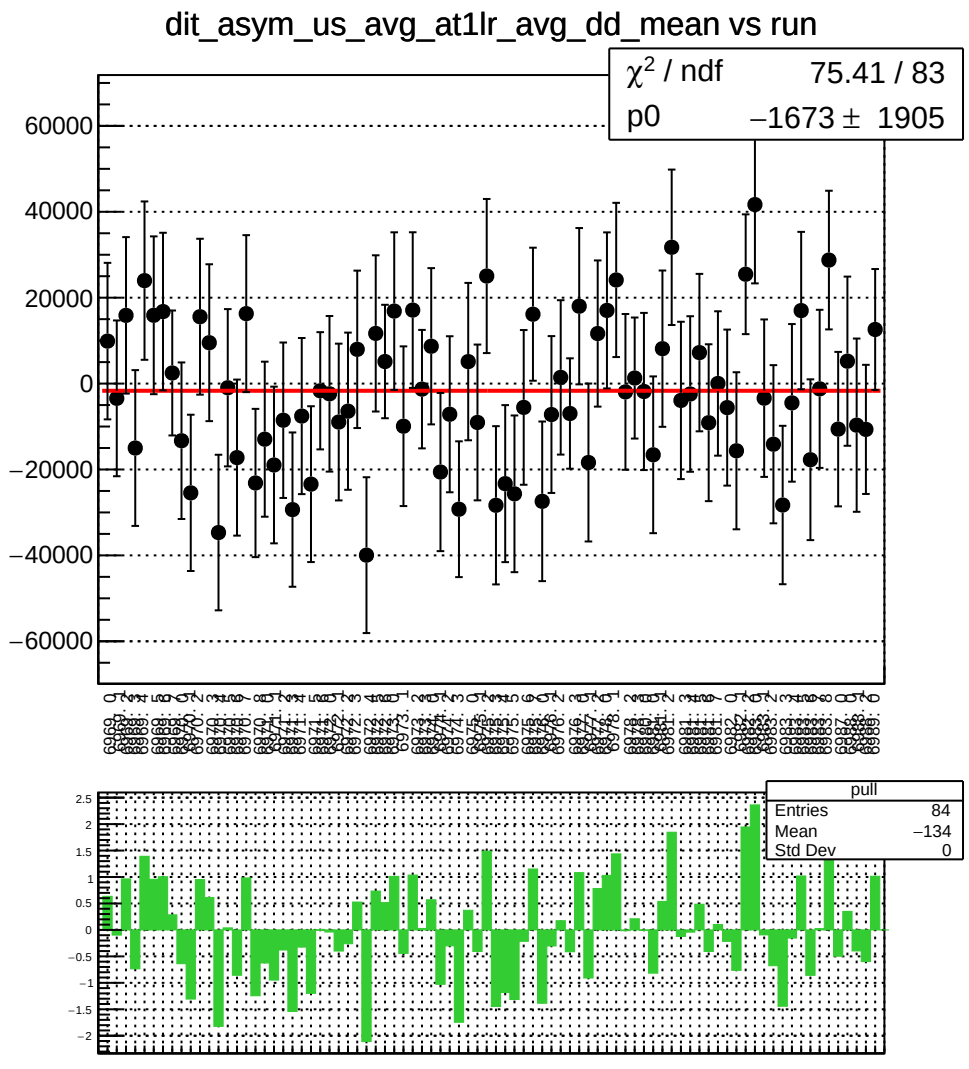

pull1D
Entries 84
Mean −0.01376
Std Dev 0.9449
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

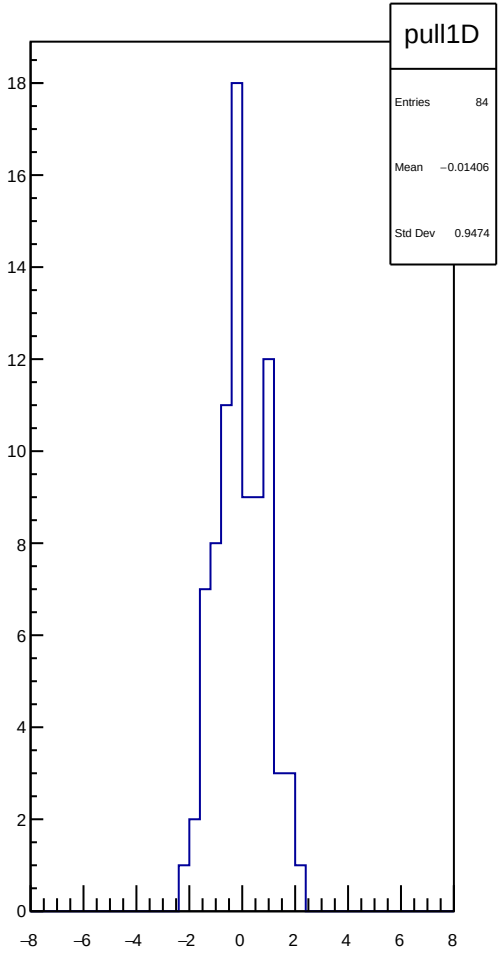

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1139 / 83
p0 1739 ± 1.344
1950
1900
1850
1800
1750
1700

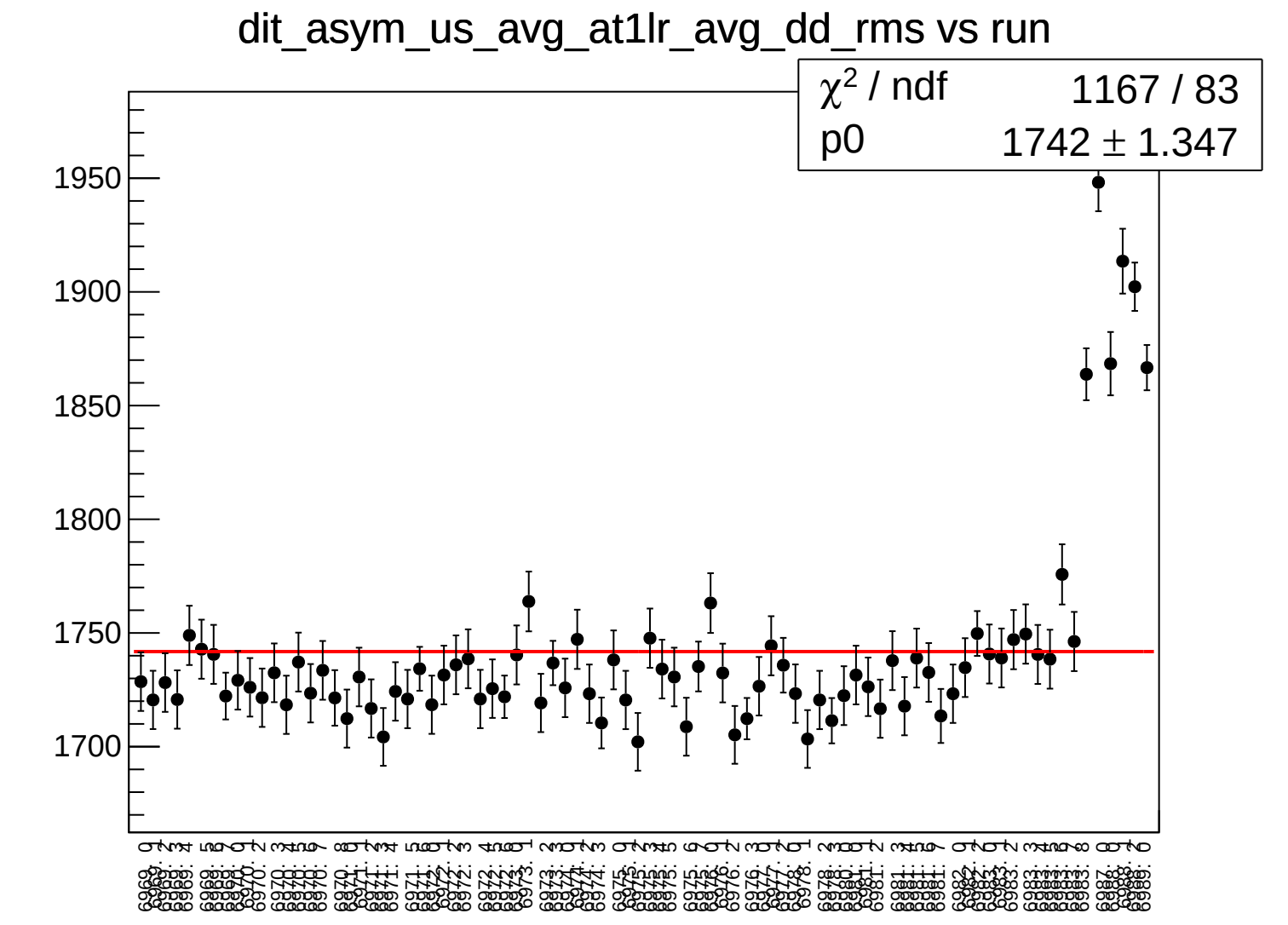

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 109.7 / 83
p0 −1676 ± 1211
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −57.19
Std Dev 0
2
1
0
−1

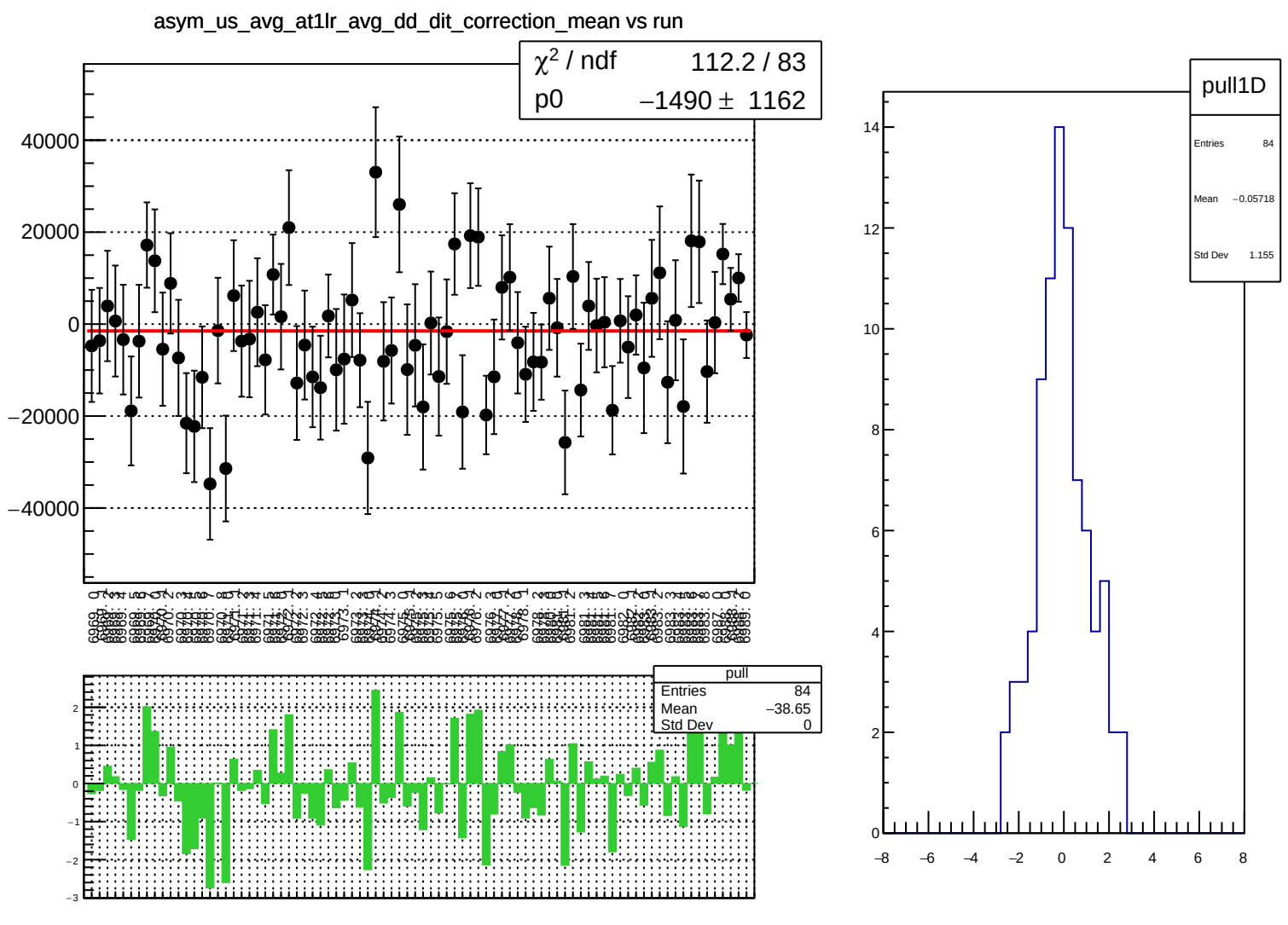

pull1D
Entries 84
Mean −0.04383
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

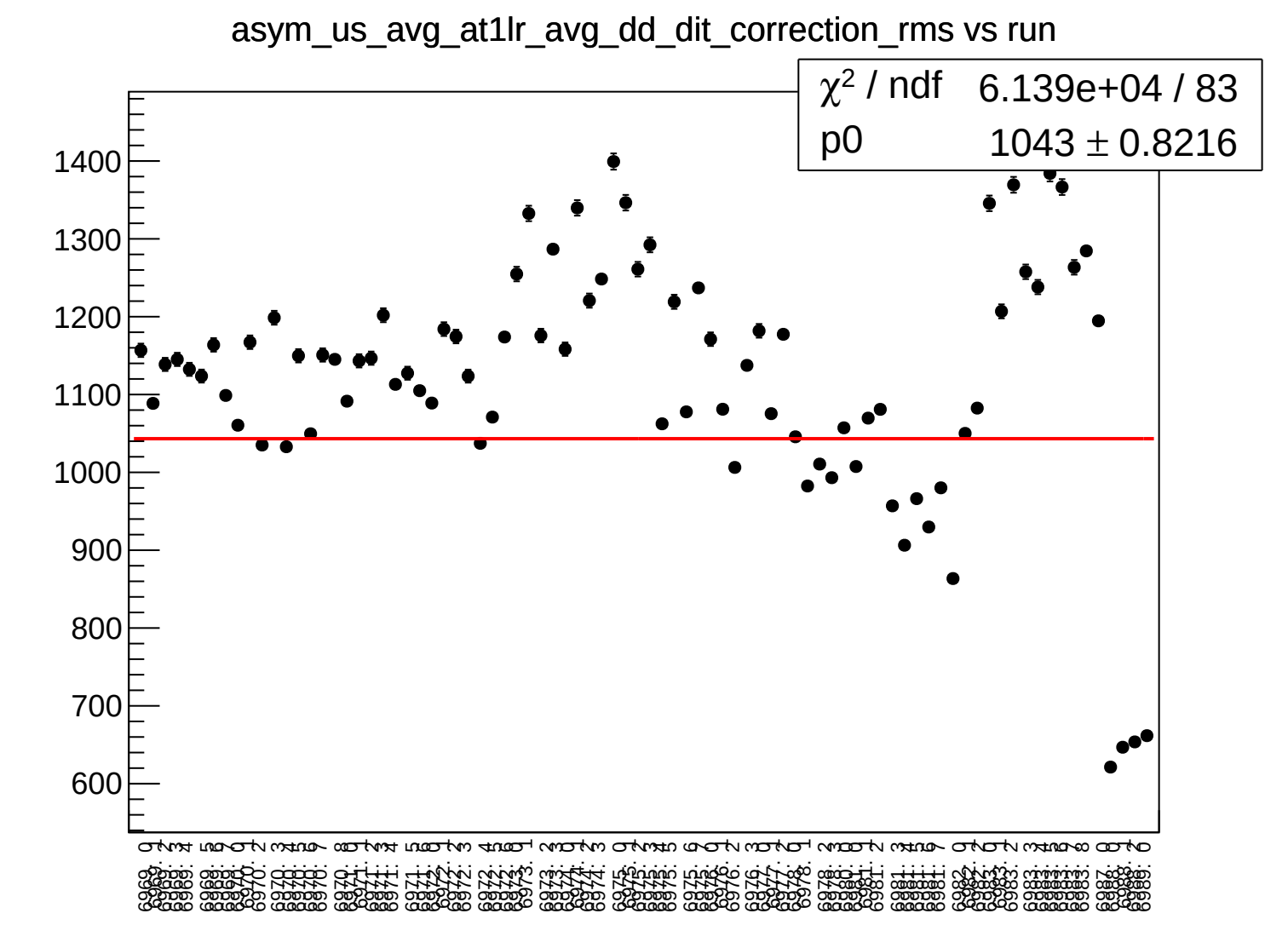

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.668e+04 / 83
p0 1093 ± 0.8566
1600
1400
1200
1000
800
600

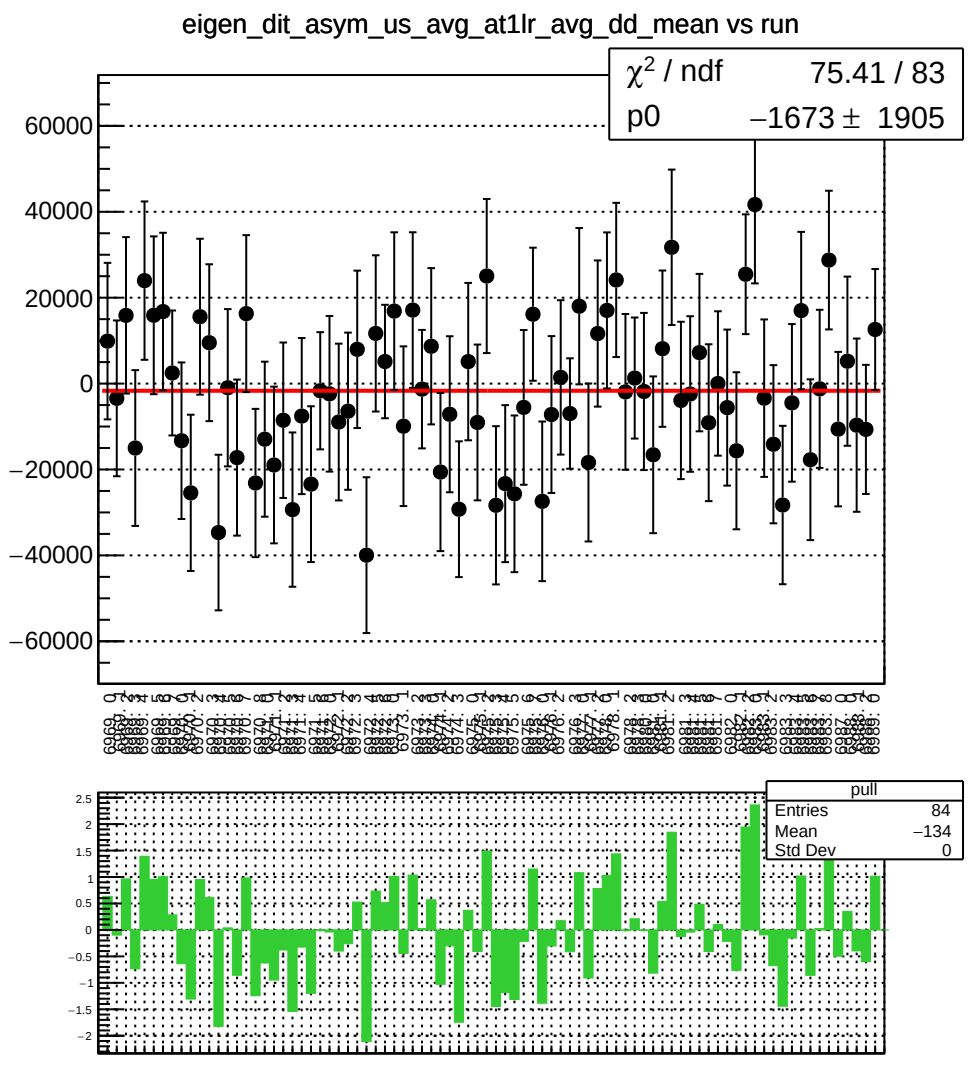

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.41 / 83
p0 −1673 ± 1905
pull
Entries 84
Mean −134
Std Dev 0

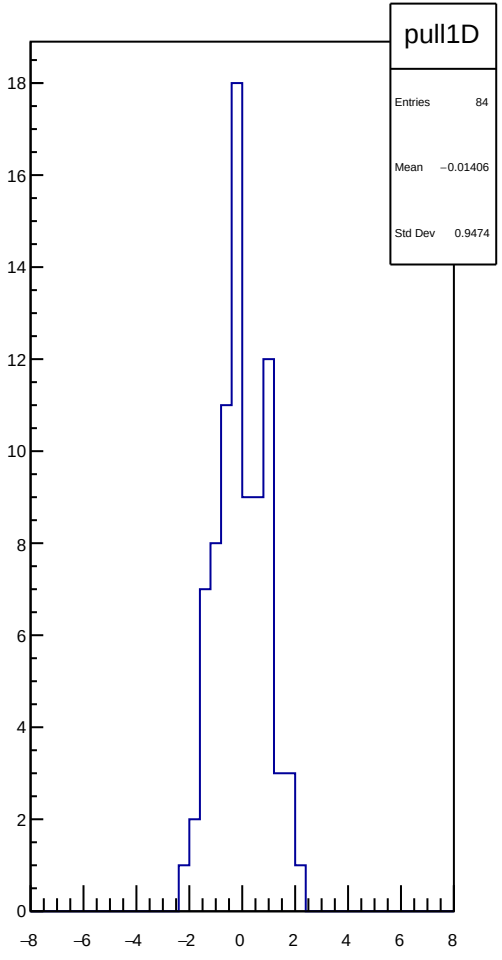

pull1D
Entries 84
Mean −0.01406
Std Dev 0.9474

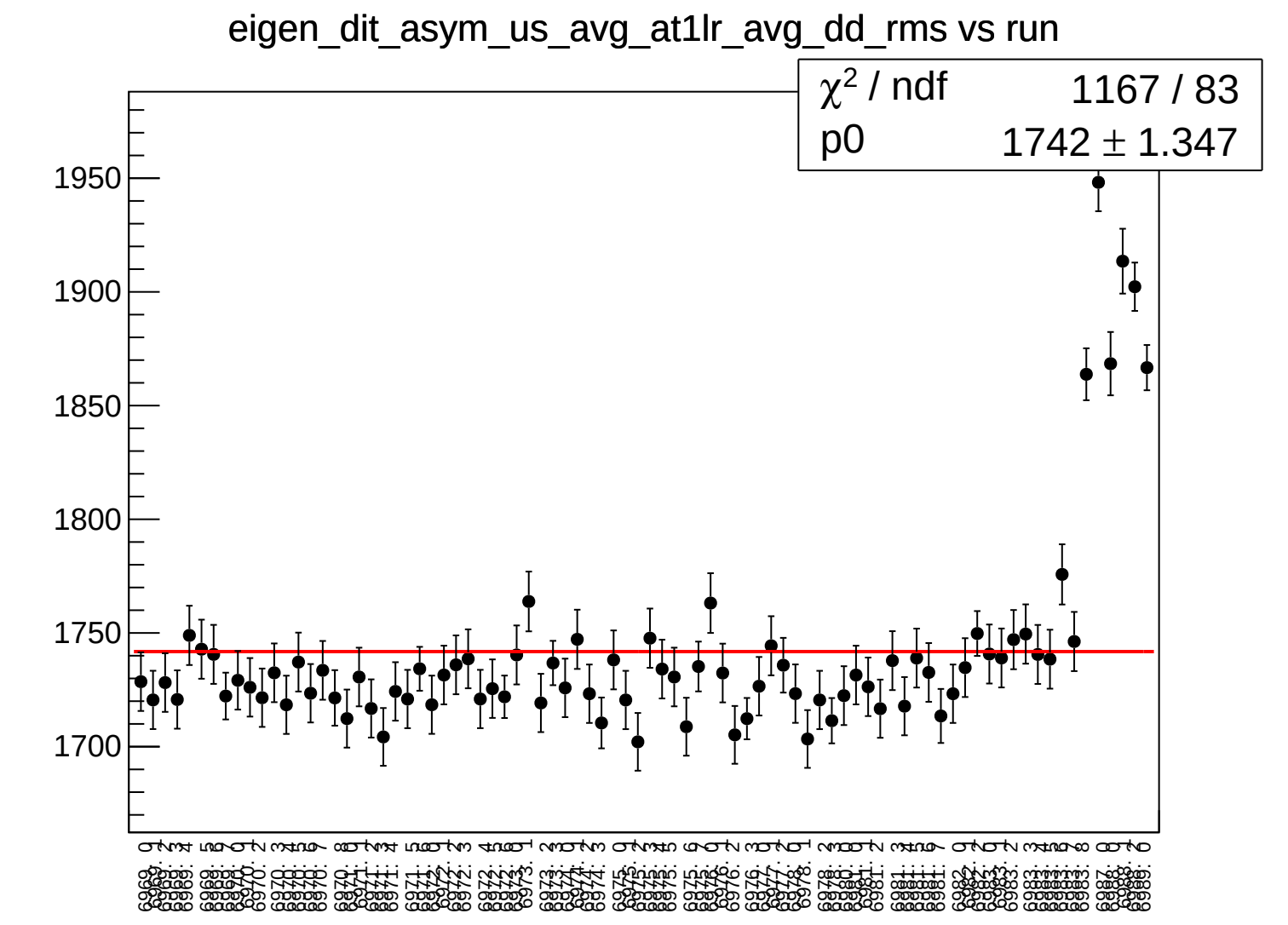

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 1167 / 83
p0 1742 ± 1.347
1950
1900
1850
1800
1750
1700

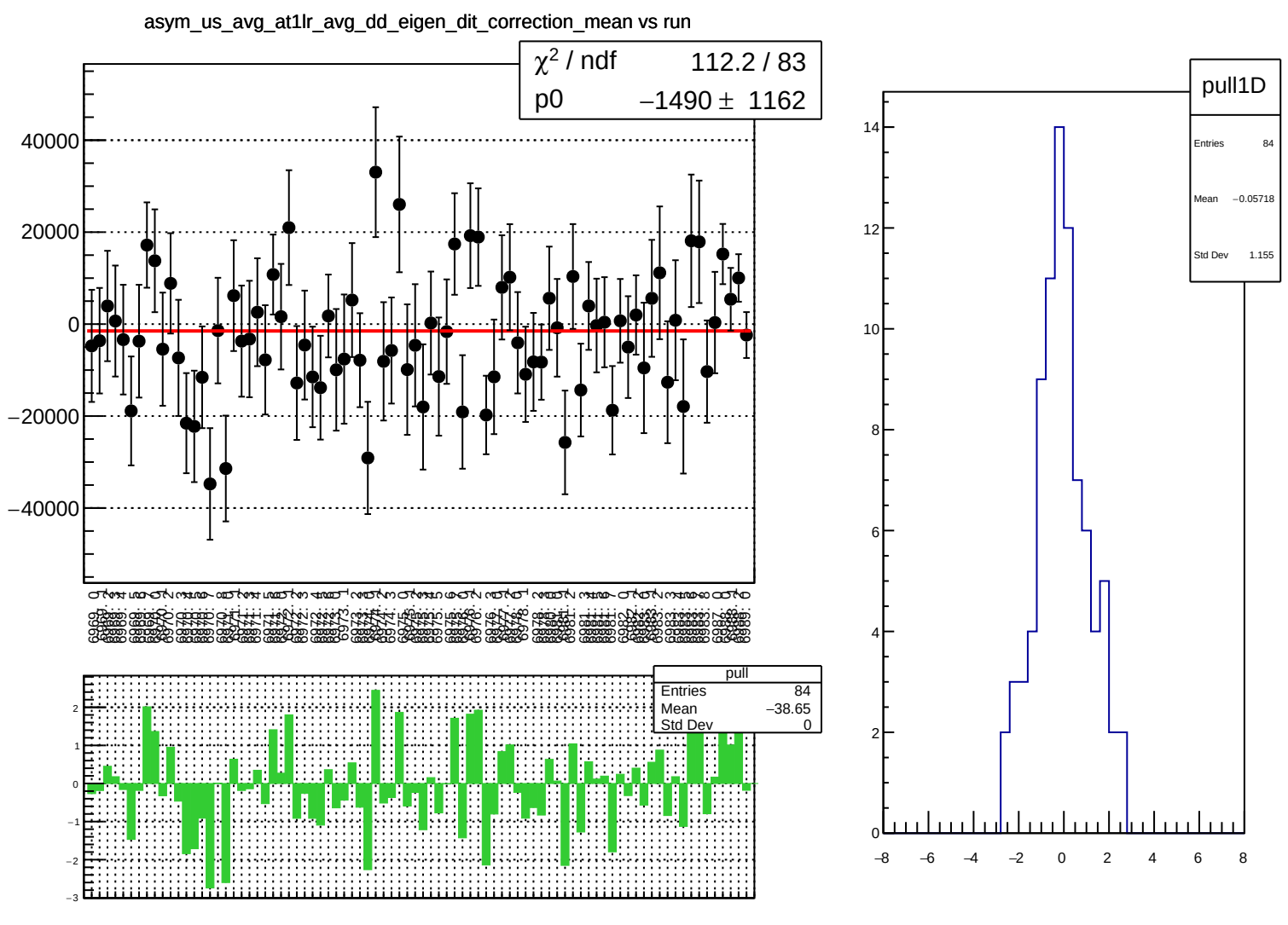

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 112.2 / 83
p0 −1490 ± 1162
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −38.65
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.05718
Std Dev 1.155
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

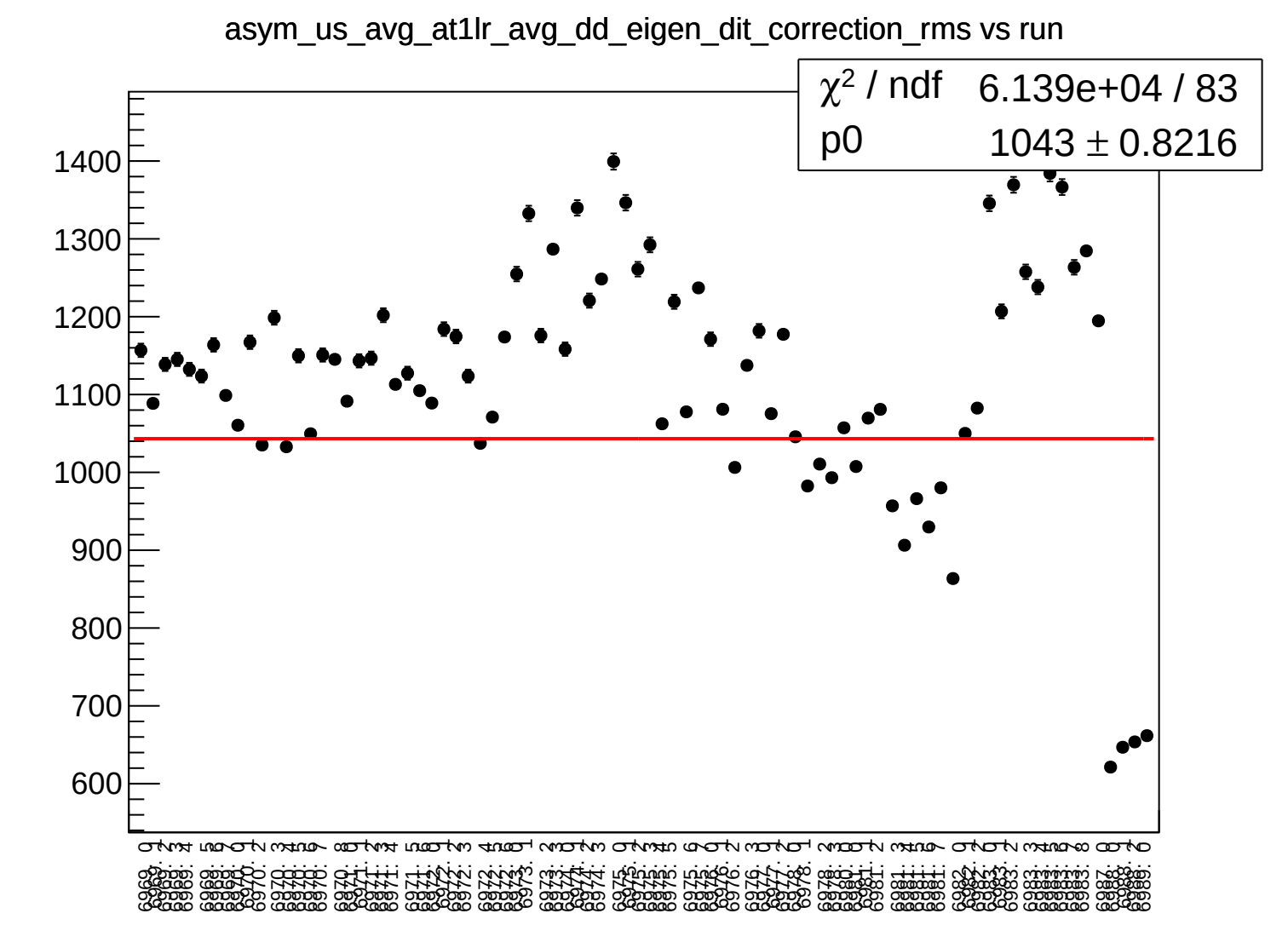

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6.139e+04 / 83
p0 1043 ± 0.8216
1400
1300
1200
1100
1000
900
800
700
600

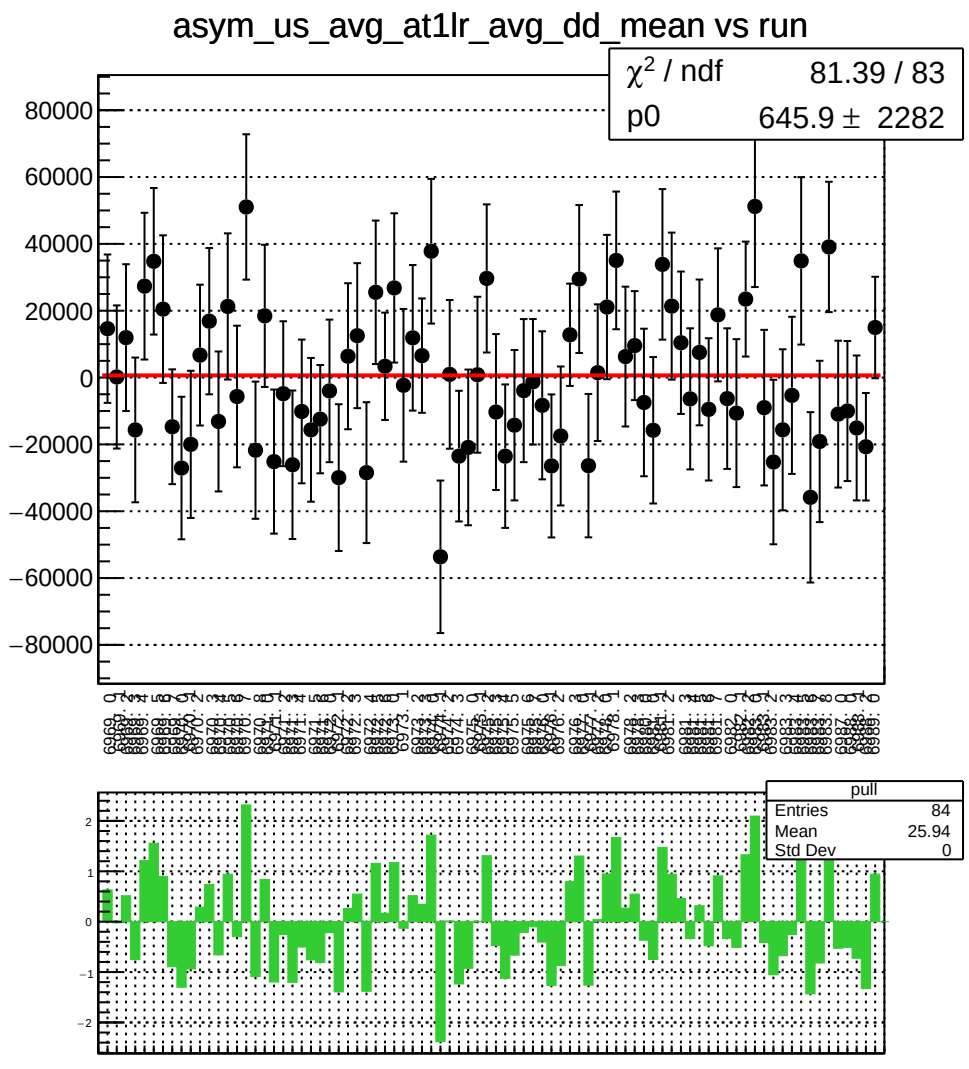

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.41 / 83
p0 −1673 ± 1905
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −134
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

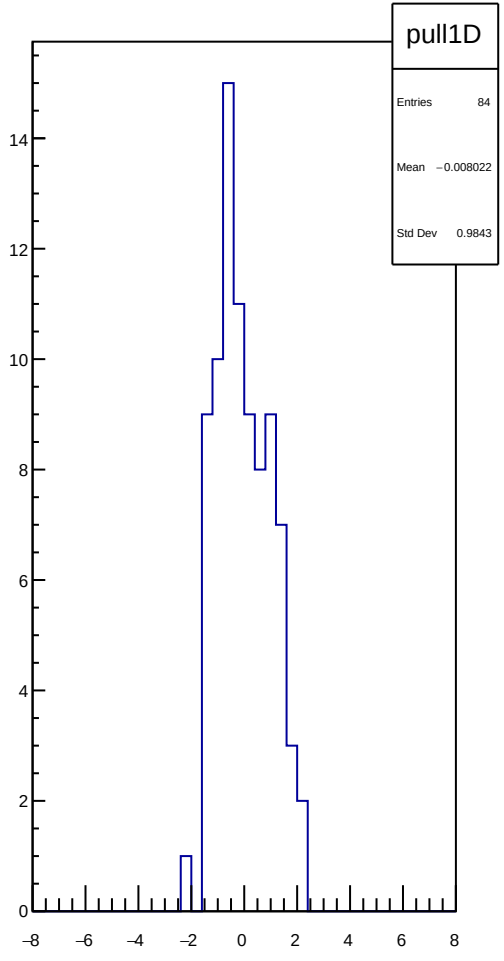

pull1D
Entries 84
Mean −0.01406
Std Dev 0.9474
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

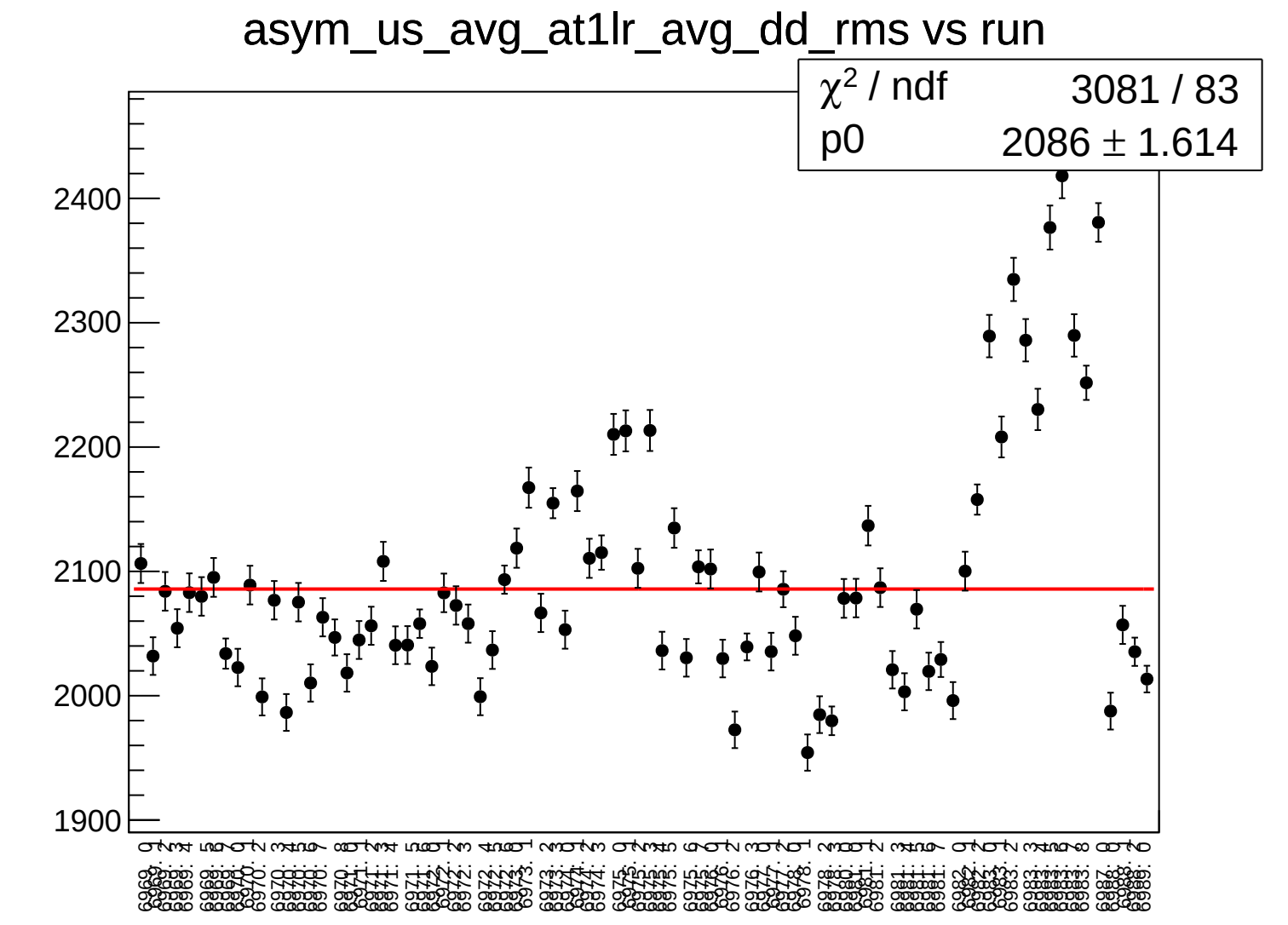

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1167 / 83
p0 1742 ± 1.347
1950
1900
1850
1800
1750
1700

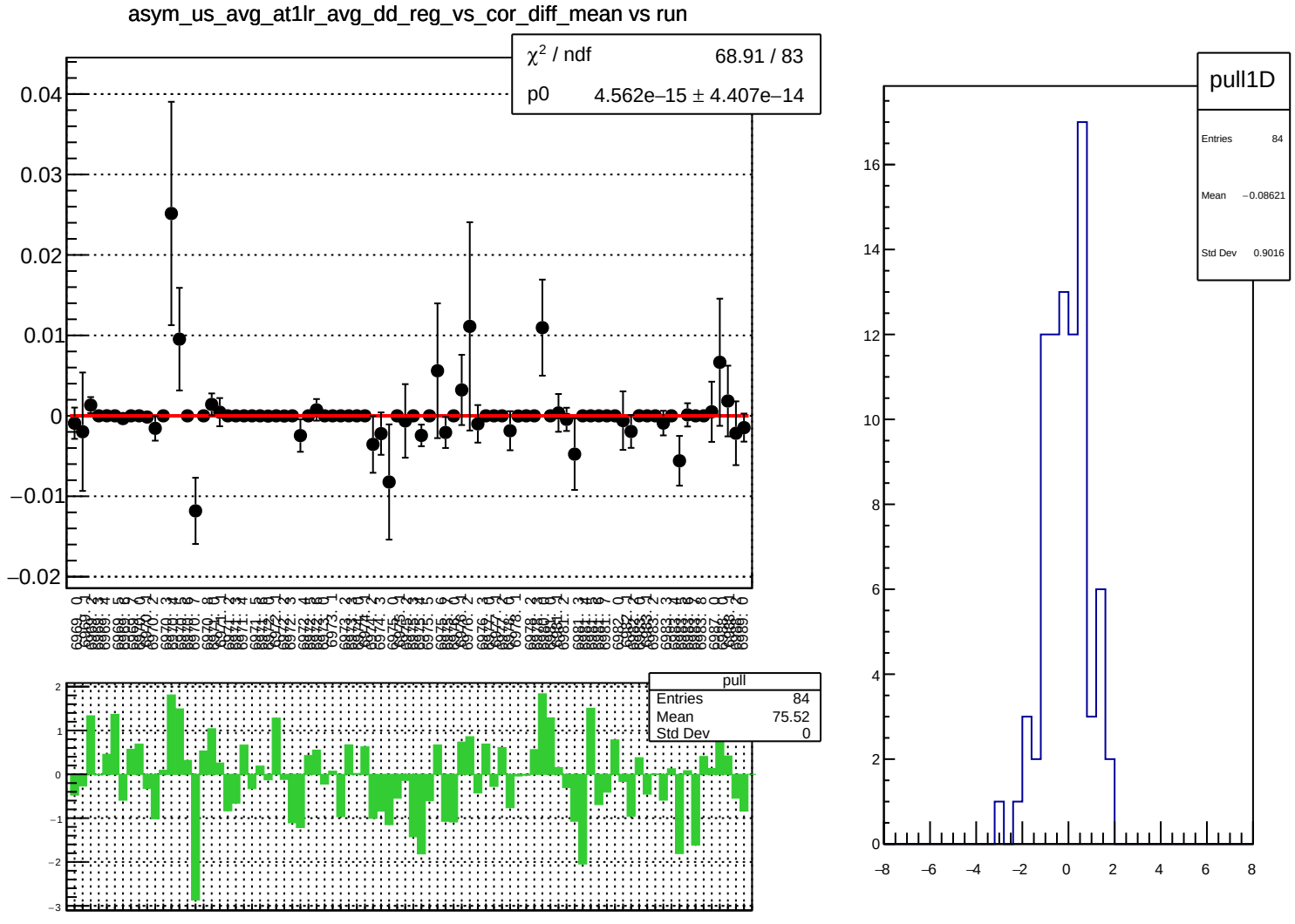

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 112.2 / 83
p0 −1490 ± 1162
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −38.65
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.05718
Std Dev 1.155
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

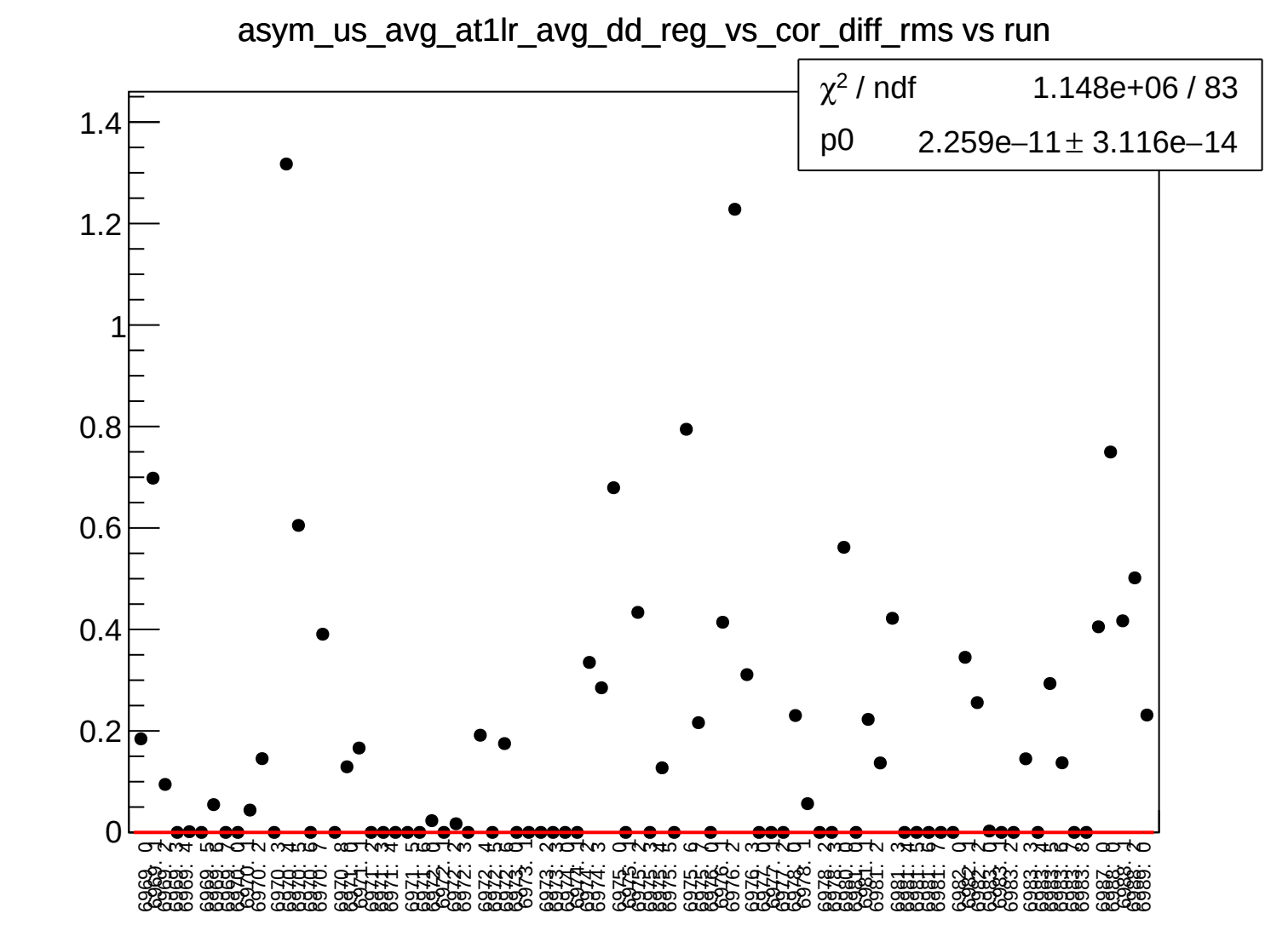

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.139e+04 / 83
p0 1043 ± 0.8216
1400
1300
1200
1100
1000
900
800
700
600

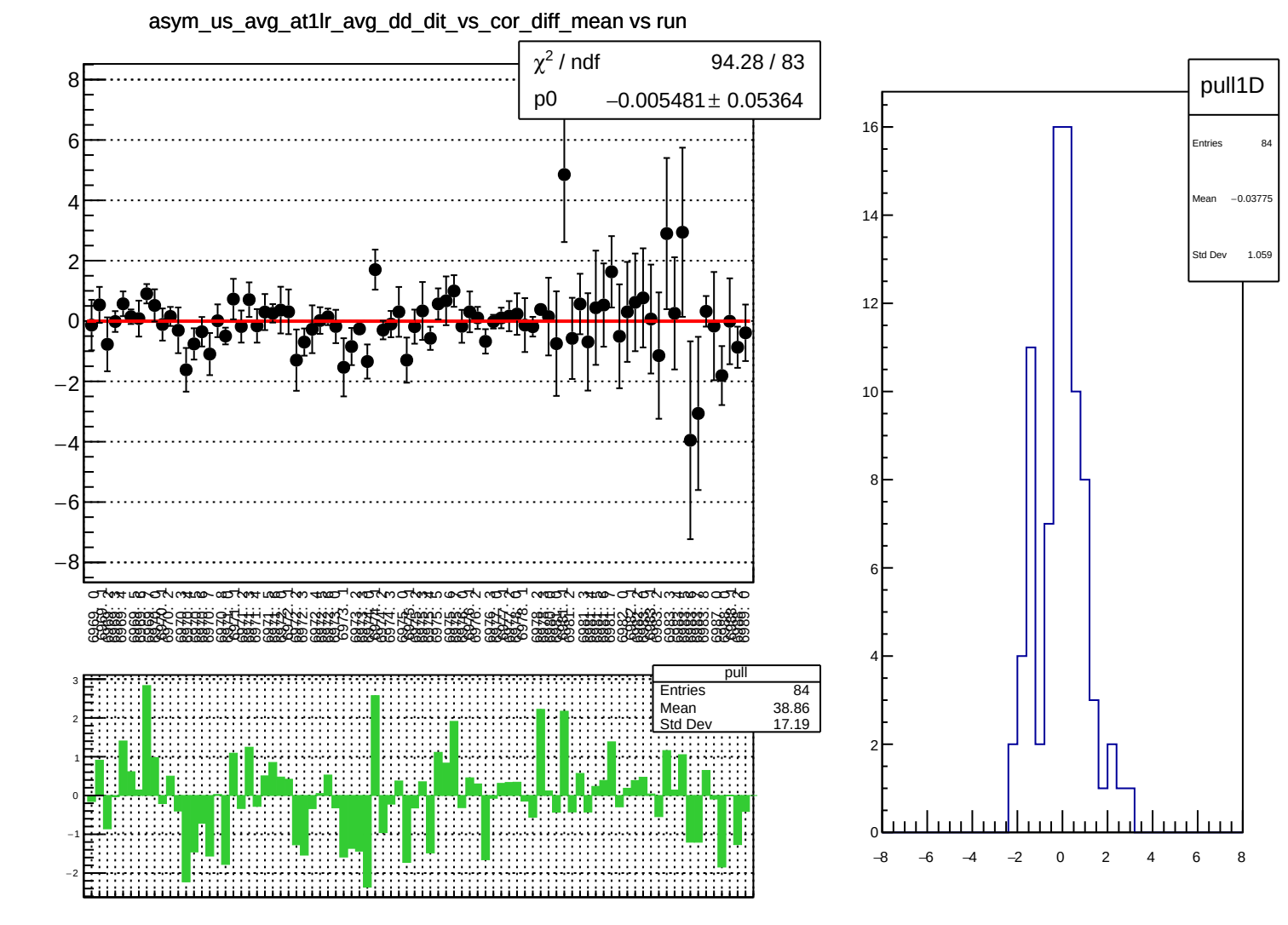

asym_us_avg_at1lr_avg_dd_mean vs run
χ^2 / ndf 81.39 / 83
p0 645.9 ± 2282
pull
Entries 84
Mean 25.94
Std Dev 0

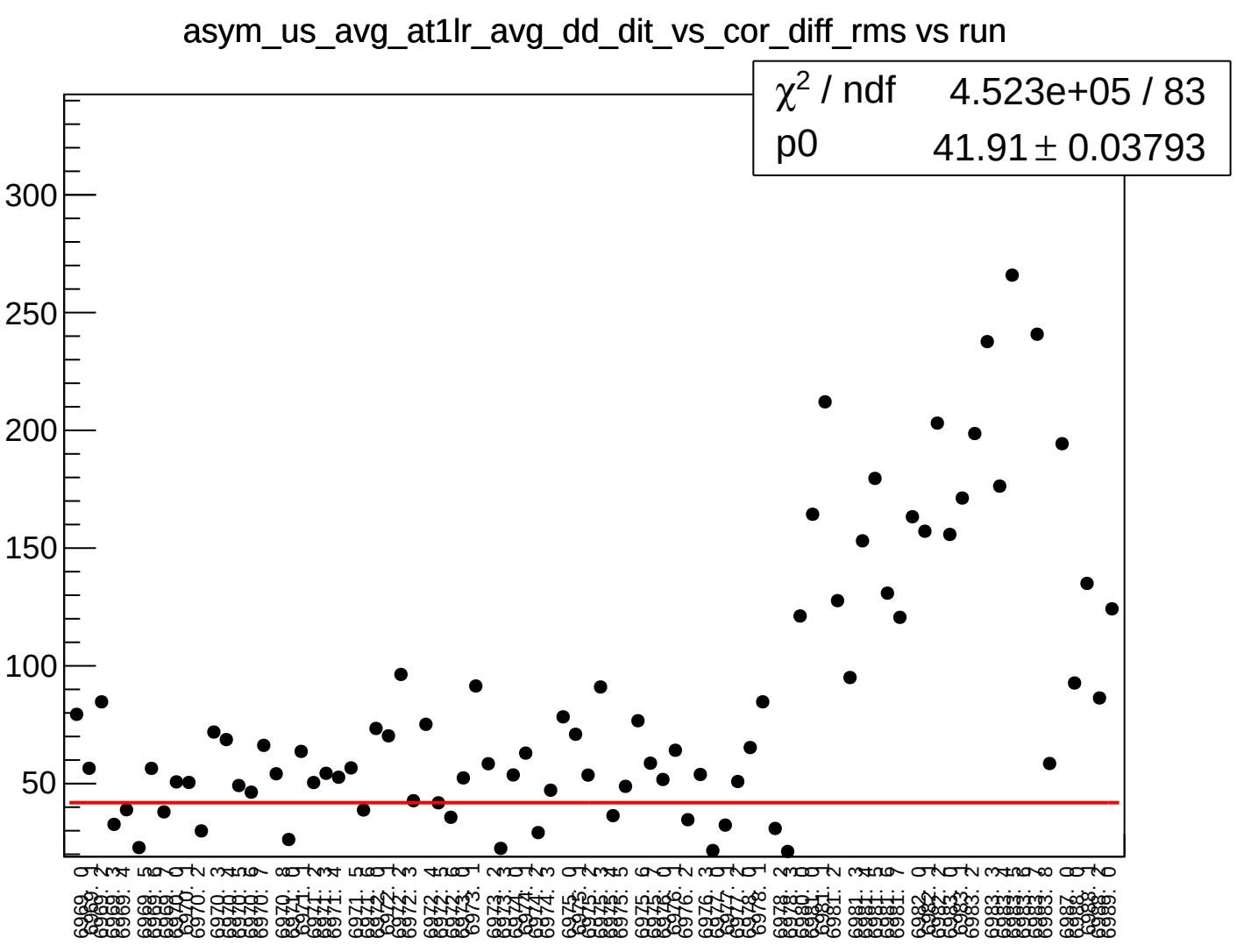

pull1D
Entries 84
Mean −0.008022
Std Dev 0.9843

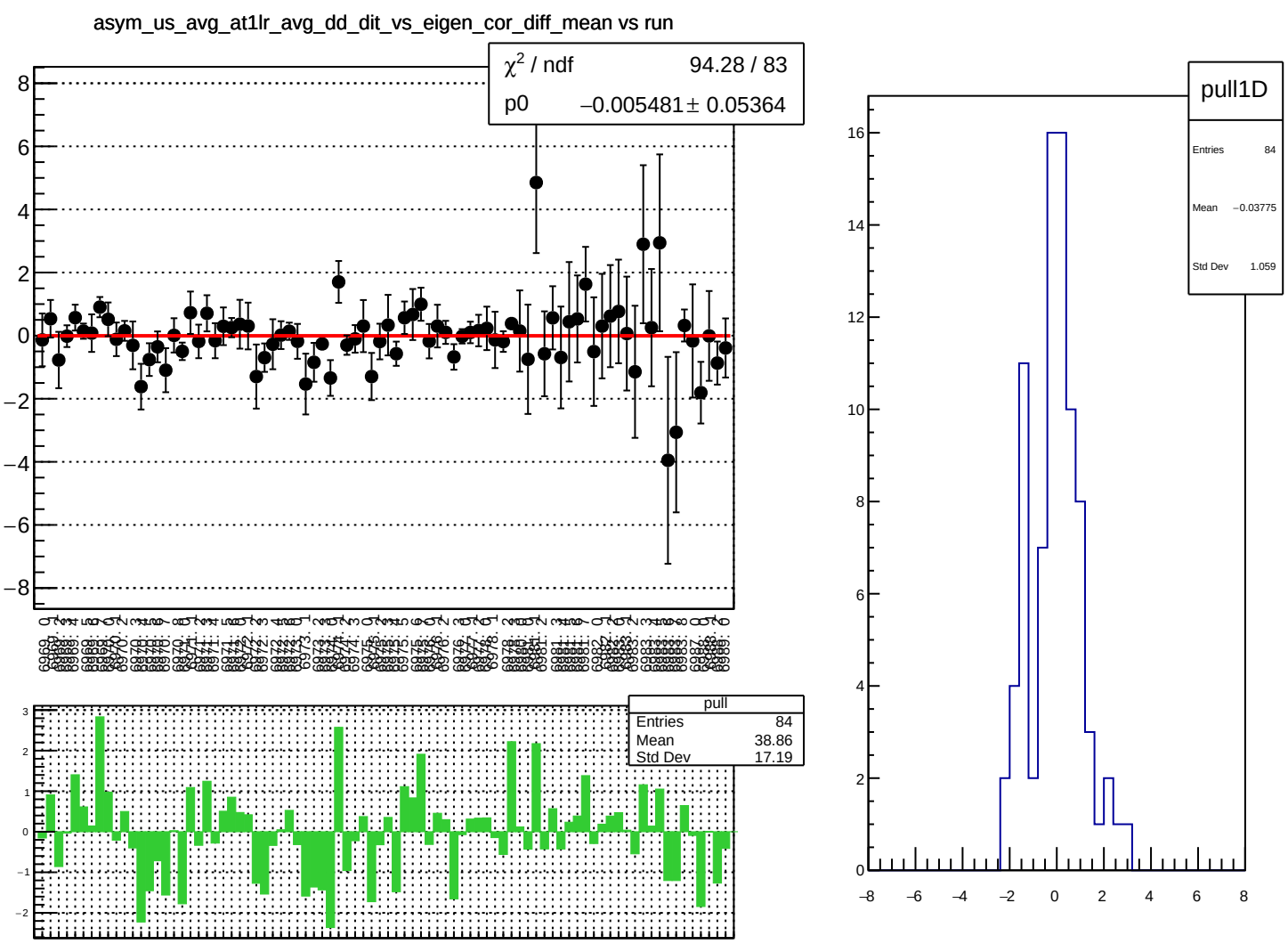

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 3081 / 83
p0 2086 ± 1.614
2400
2300
2200
2100
2000
1900

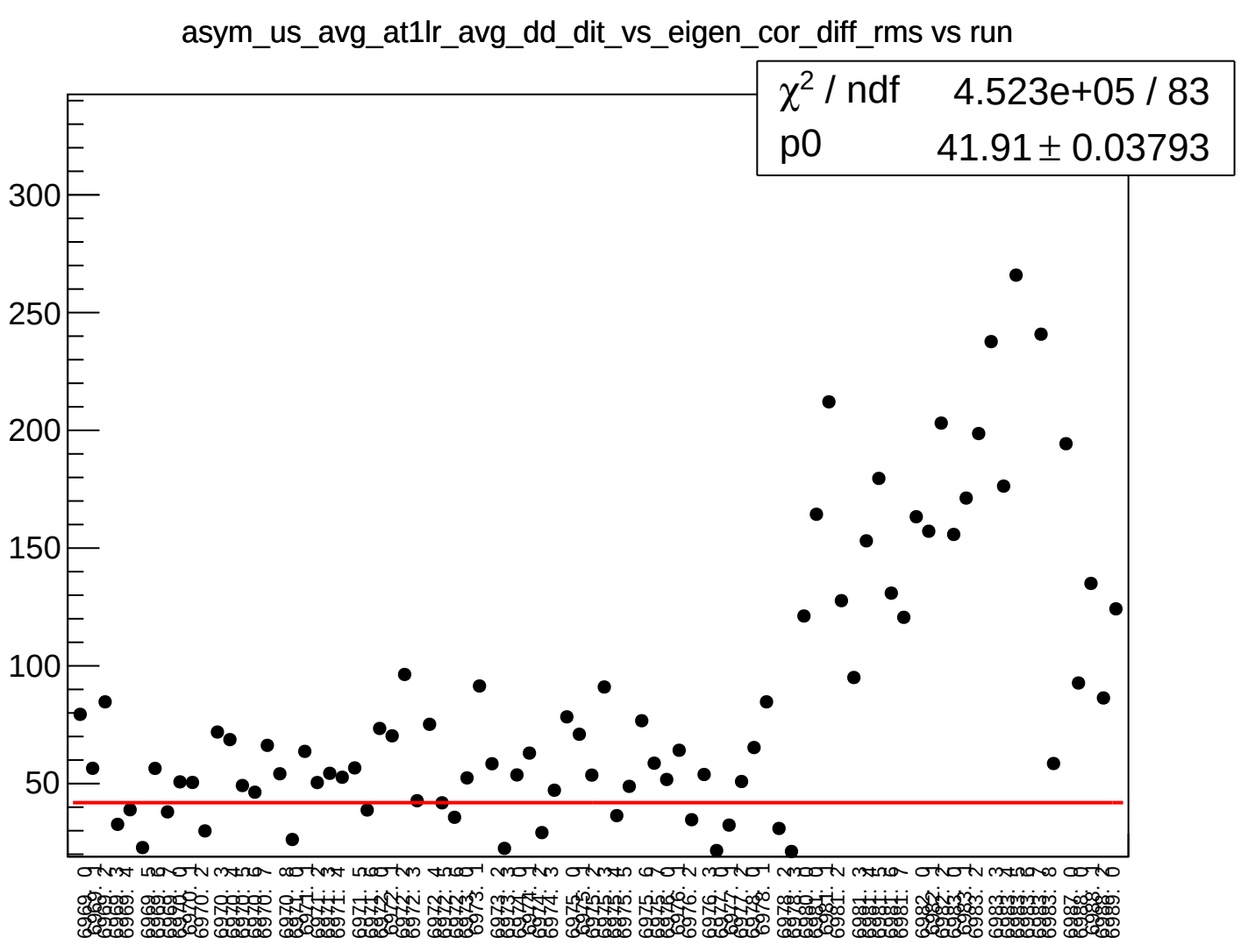

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.91 / 83
p0 4.562e−15 ± 4.407e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 75.52
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.08621
Std Dev 0.9016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

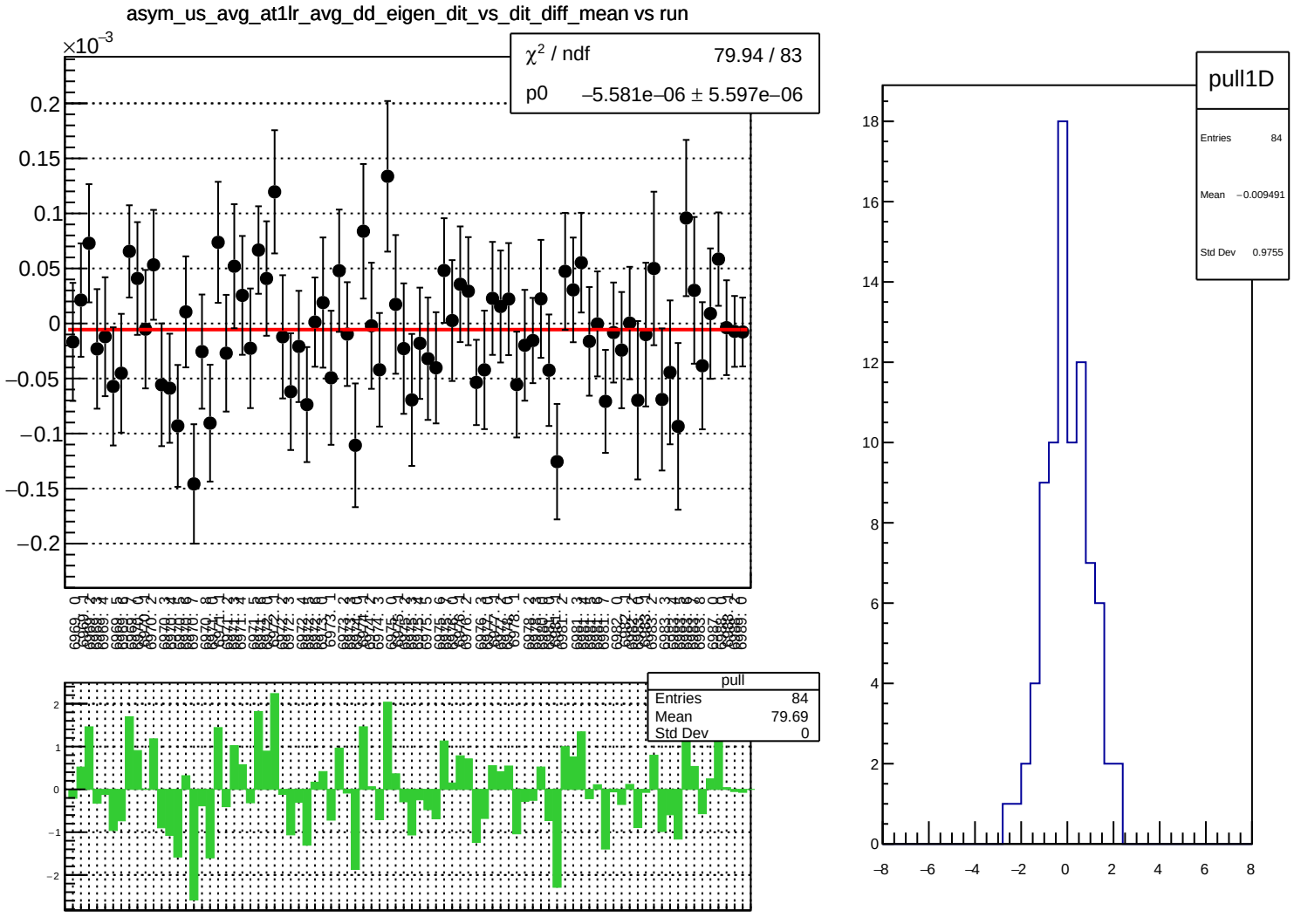

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.148e+06 / 83
p0 2.259e−11 ± 3.116e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

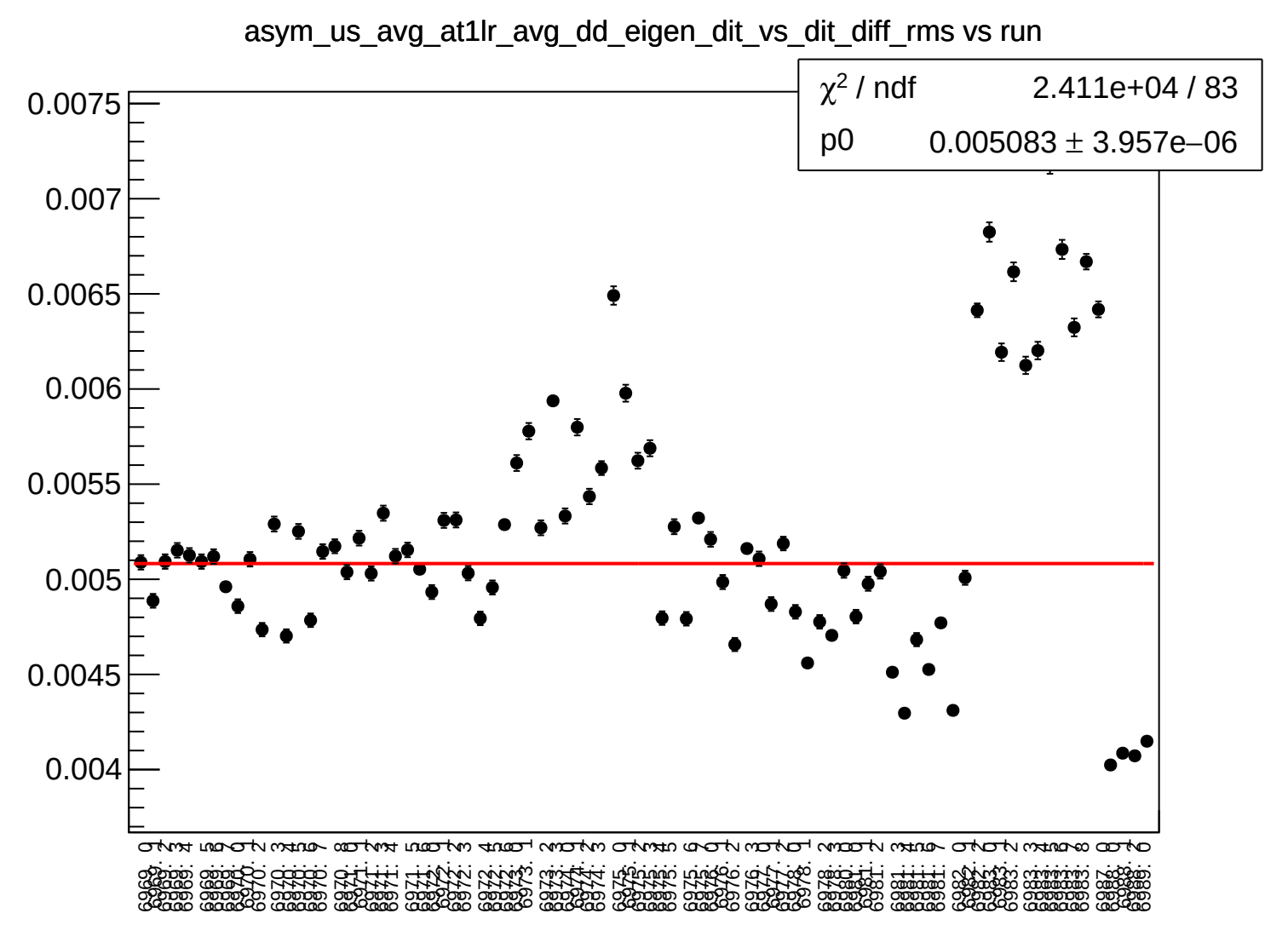

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.28 / 83
p0 −0.005481 ± 0.05364
pull
Entries 84
Mean 38.86
Std Dev 17.19
pull1D
Entries 84
Mean −0.03775
Std Dev 1.059

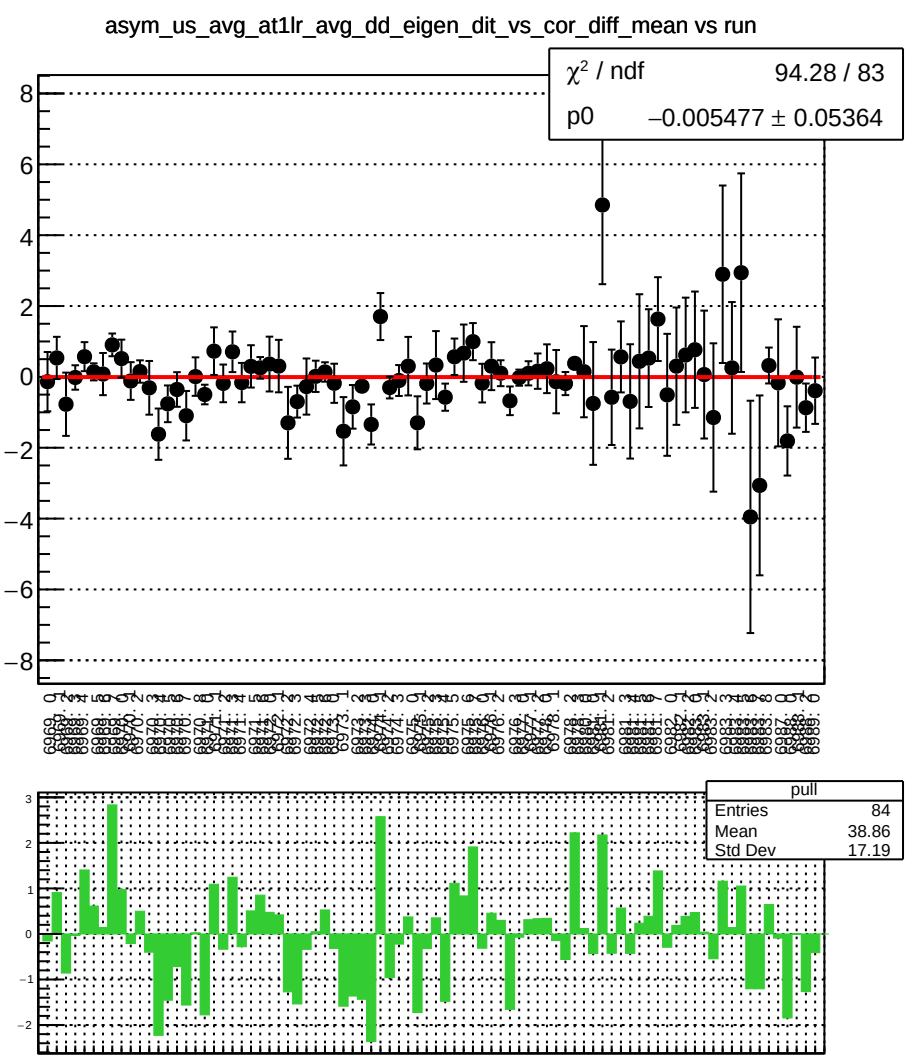

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.523e+05 / 83
p0 41.91 ± 0.03793
300
250
200
150
100
50

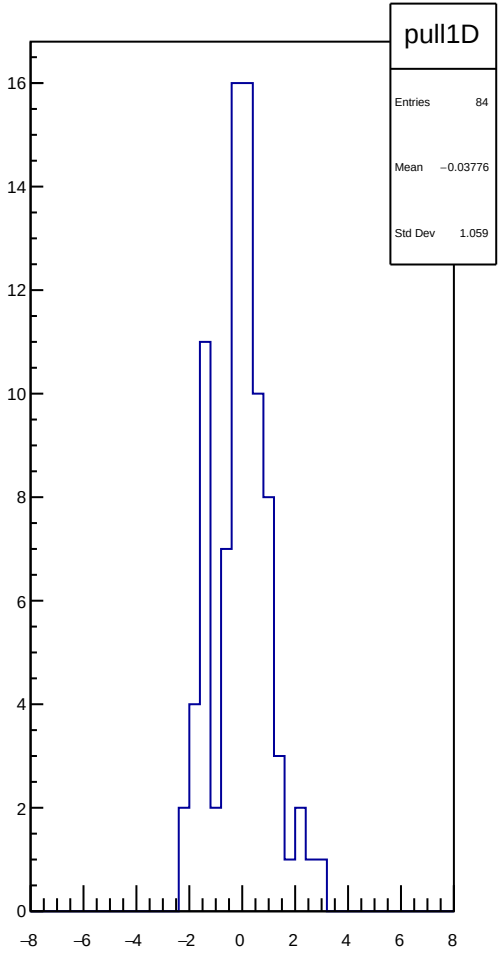

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.28 / 83
p0 −0.005481 ± 0.05364
pull
Entries 84
Mean 38.86
Std Dev 17.19
pull1D
Entries 84
Mean −0.03775
Std Dev 1.059

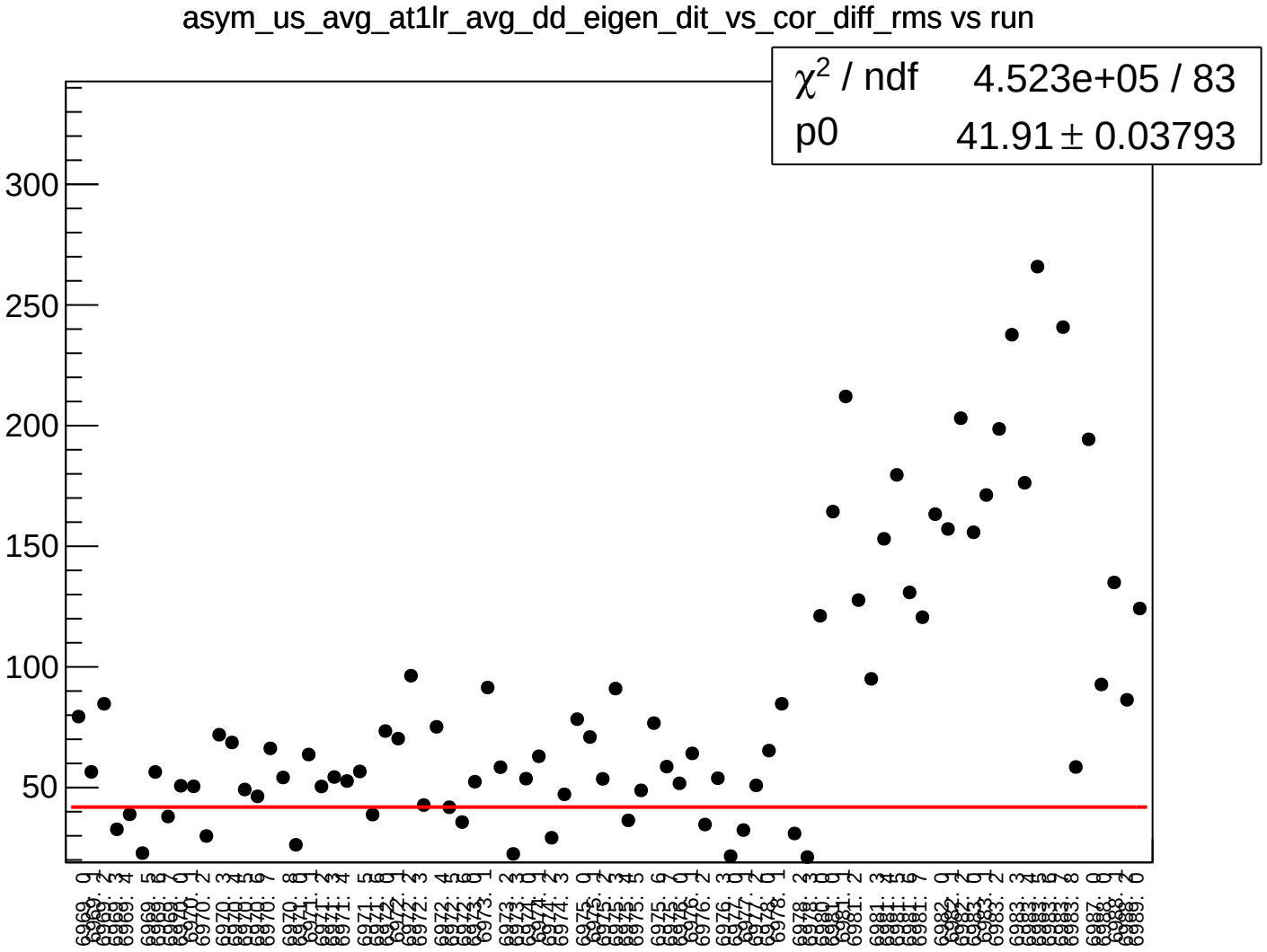

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.523e+05 / 83
p0 41.91 ± 0.03793
300
250
200
150
100
50

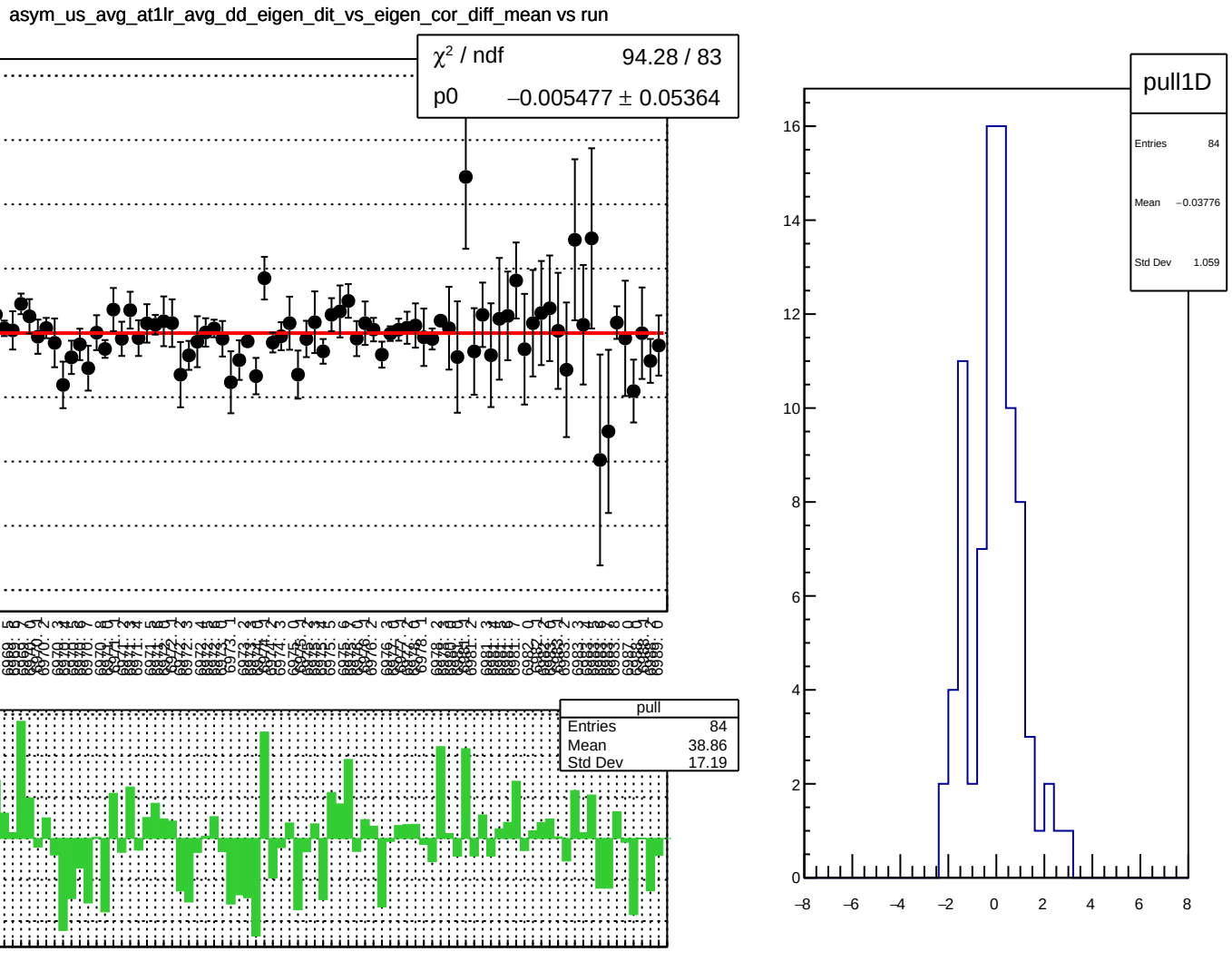

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.94 / 83
p0 −5.581e−06 ± 5.597e−06
pull
Entries 84
Mean 79.69
Std Dev 0
pull1D
Entries 84
Mean −0.009491
Std Dev 0.9755

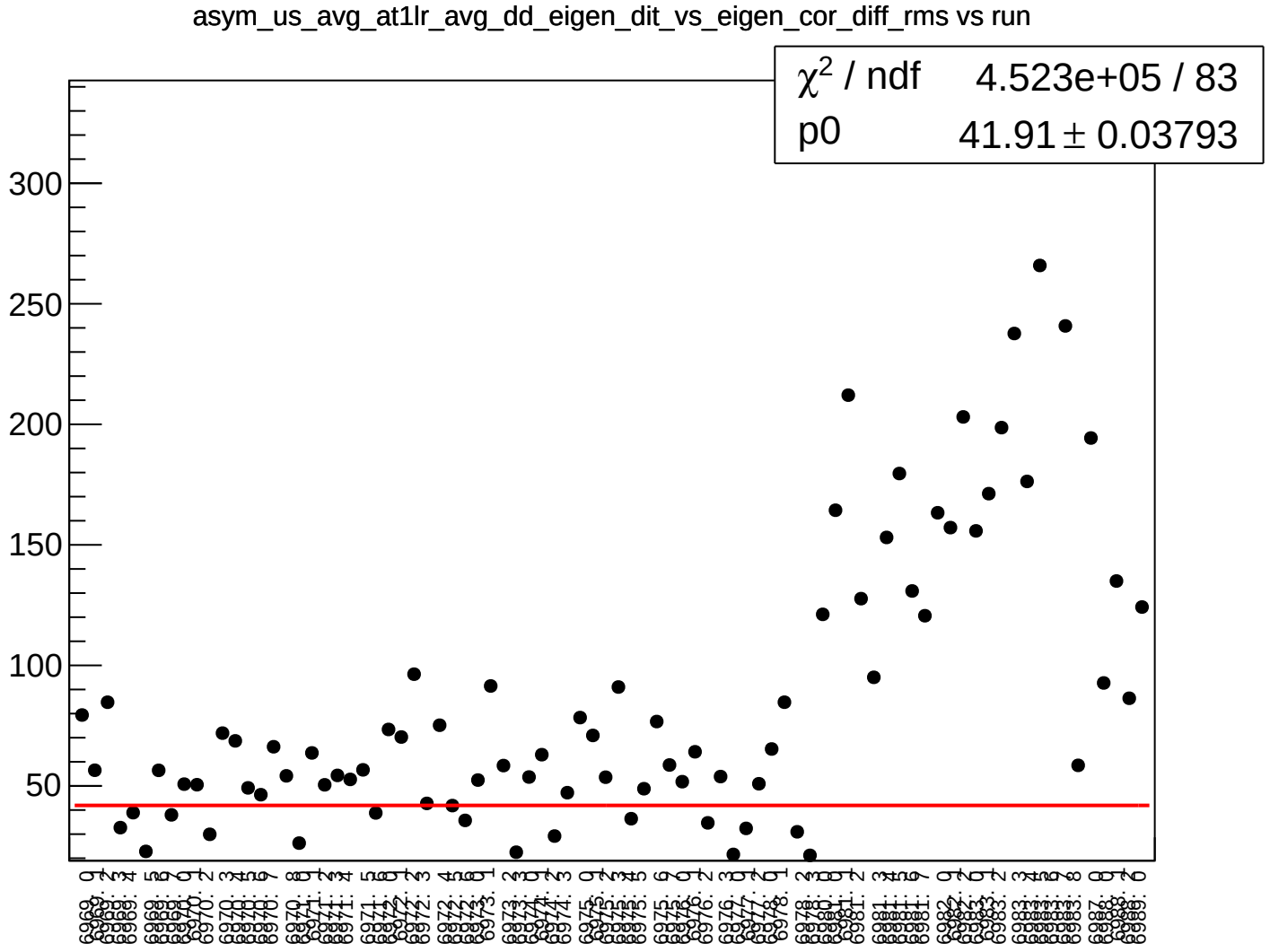

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.411e+04 / 83
p0 0.005083 ± 3.957e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

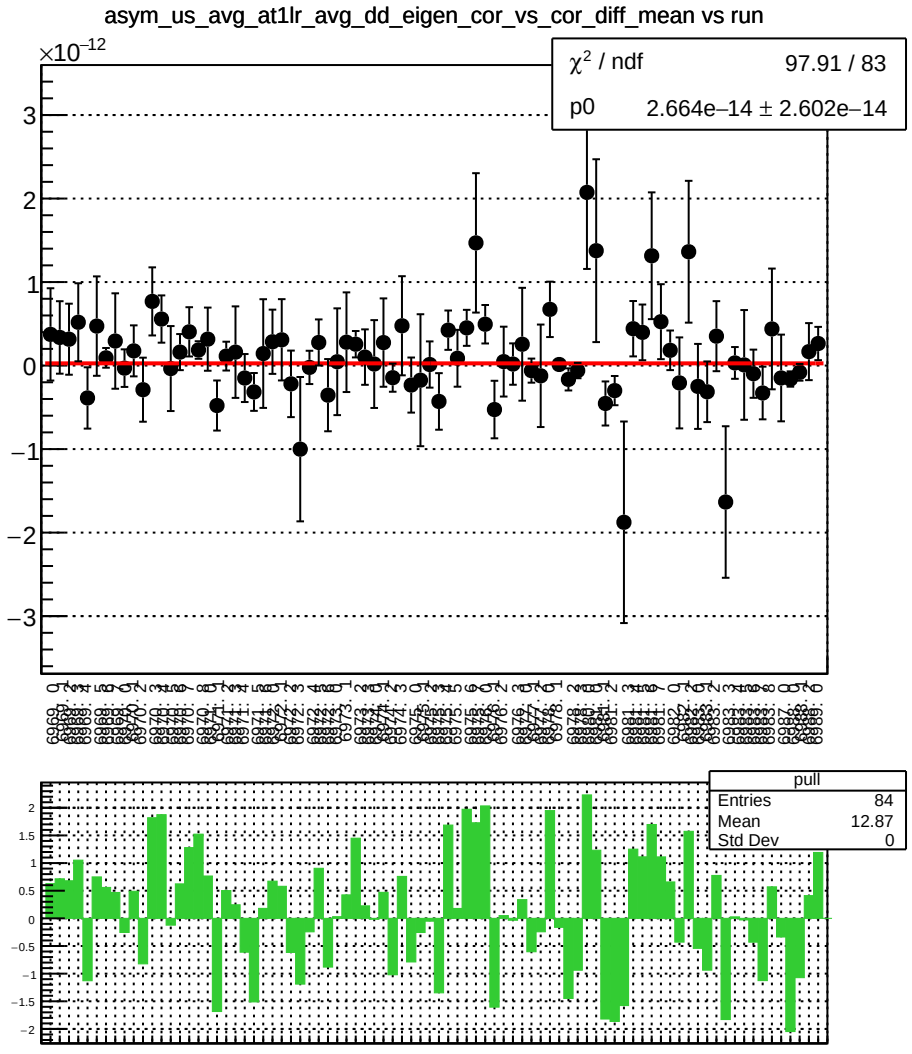

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.28 / 83
p0 −0.005477 ± 0.05364
pull
Entries 84
Mean 38.86
Std Dev 17.19

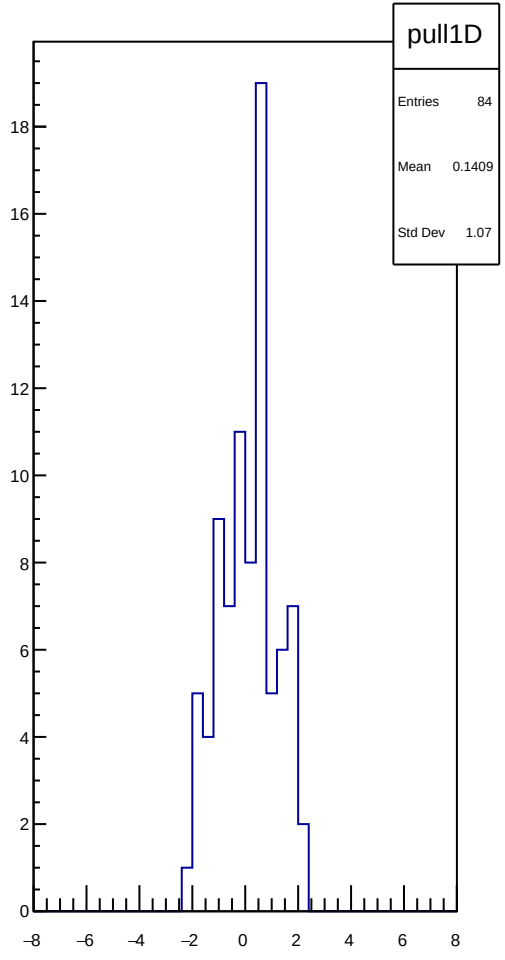

pull1D
Entries 84
Mean −0.03776
Std Dev 1.059

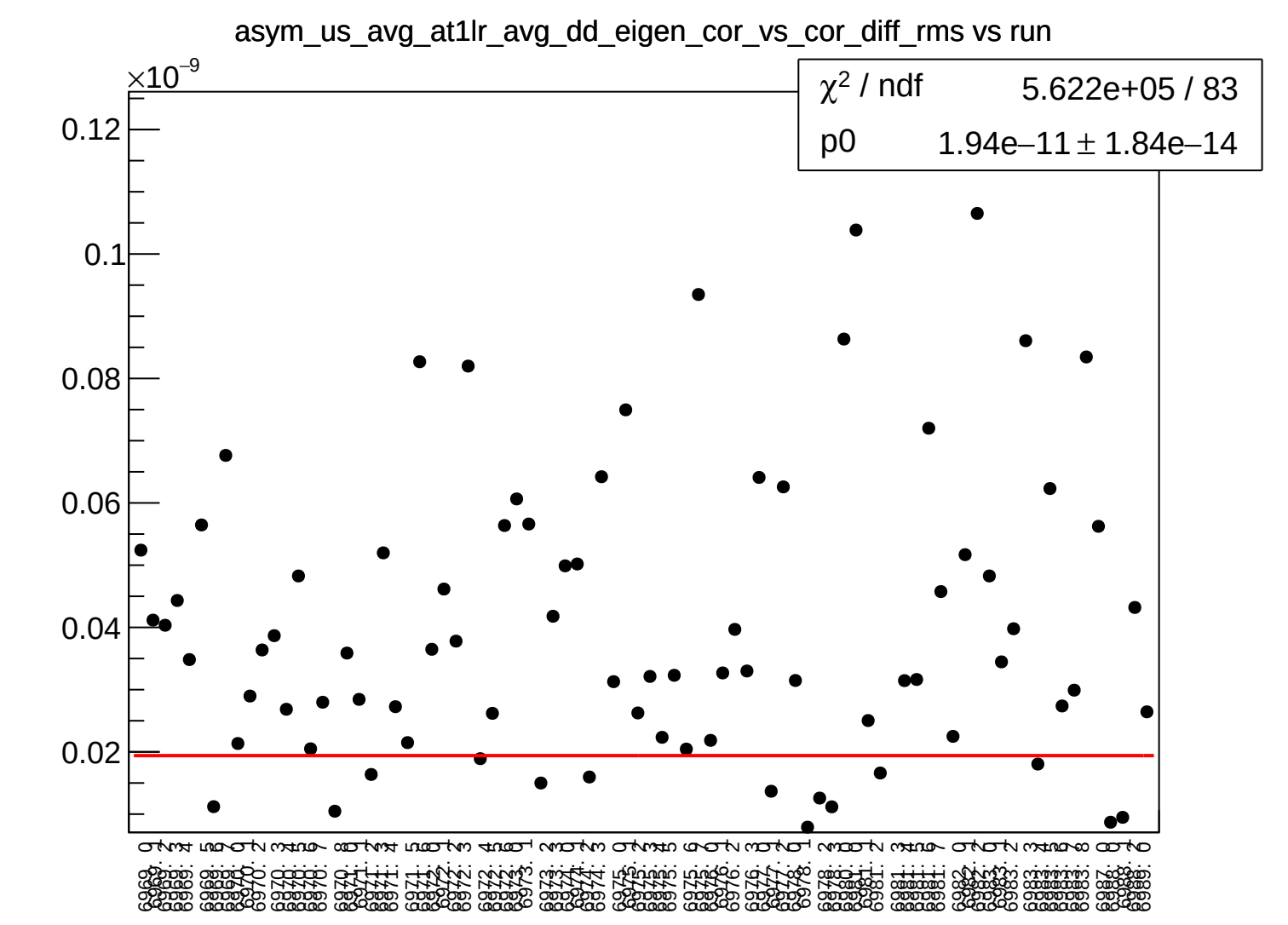

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.523e+05 / 83
p0 41.91 ± 0.03793
300
250
200
150
100
50

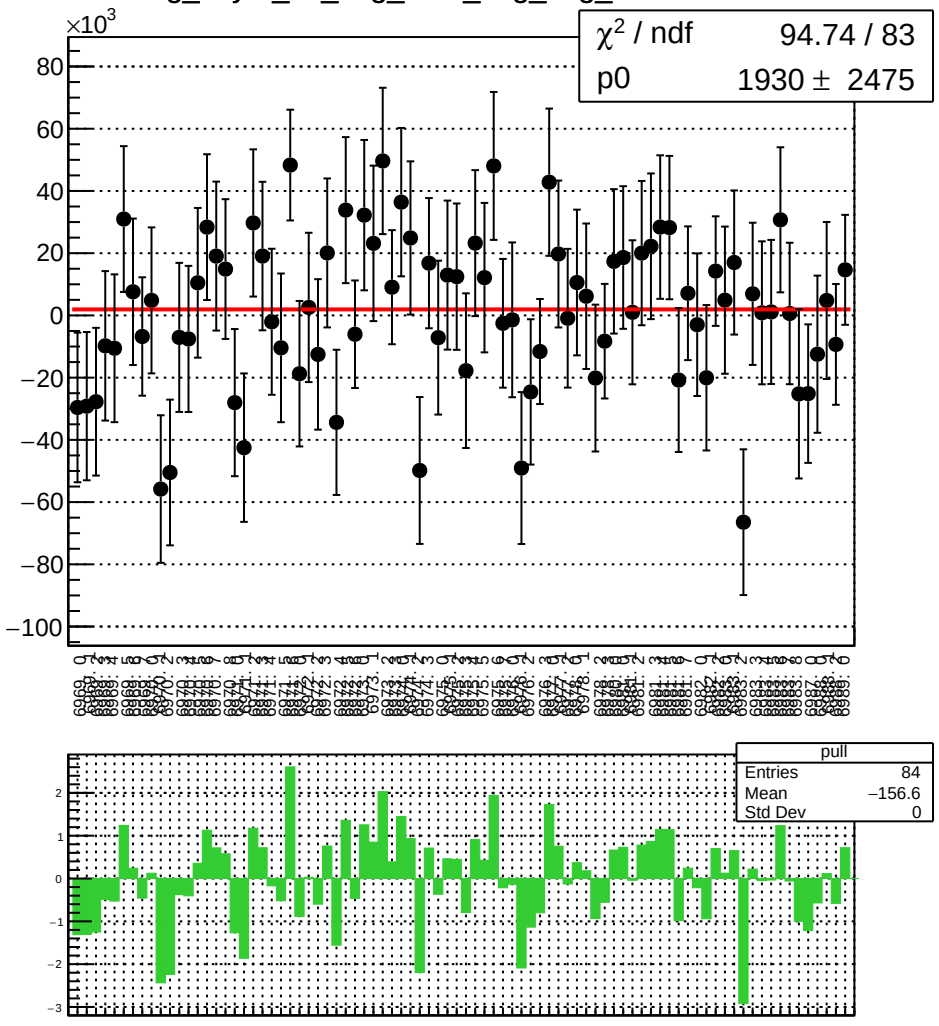

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.28 / 83
p0 −0.005477 ± 0.05364
pull
Entries 84
Mean 38.86
Std Dev 17.19
pull1D
Entries 84
Mean −0.03776
Std Dev 1.059

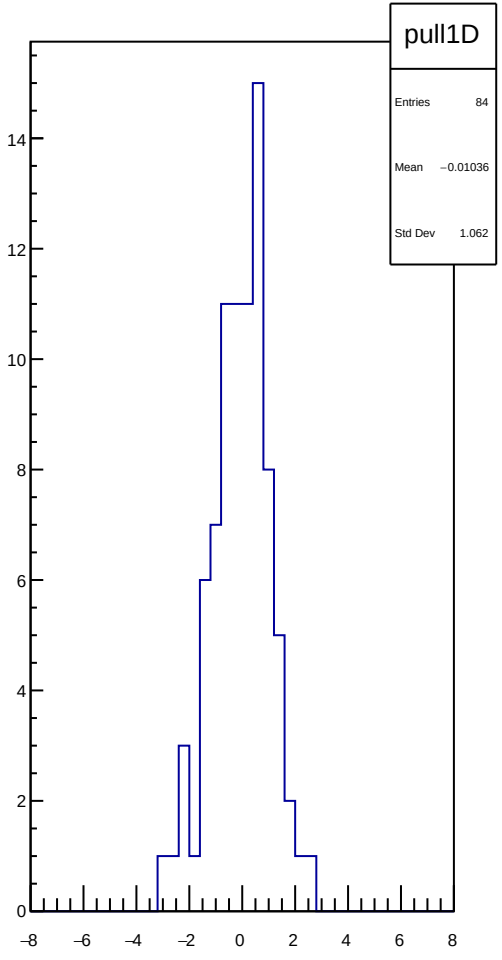

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.523e+05 / 83
p0 41.91 ± 0.03793
300
250
200
150
100
50

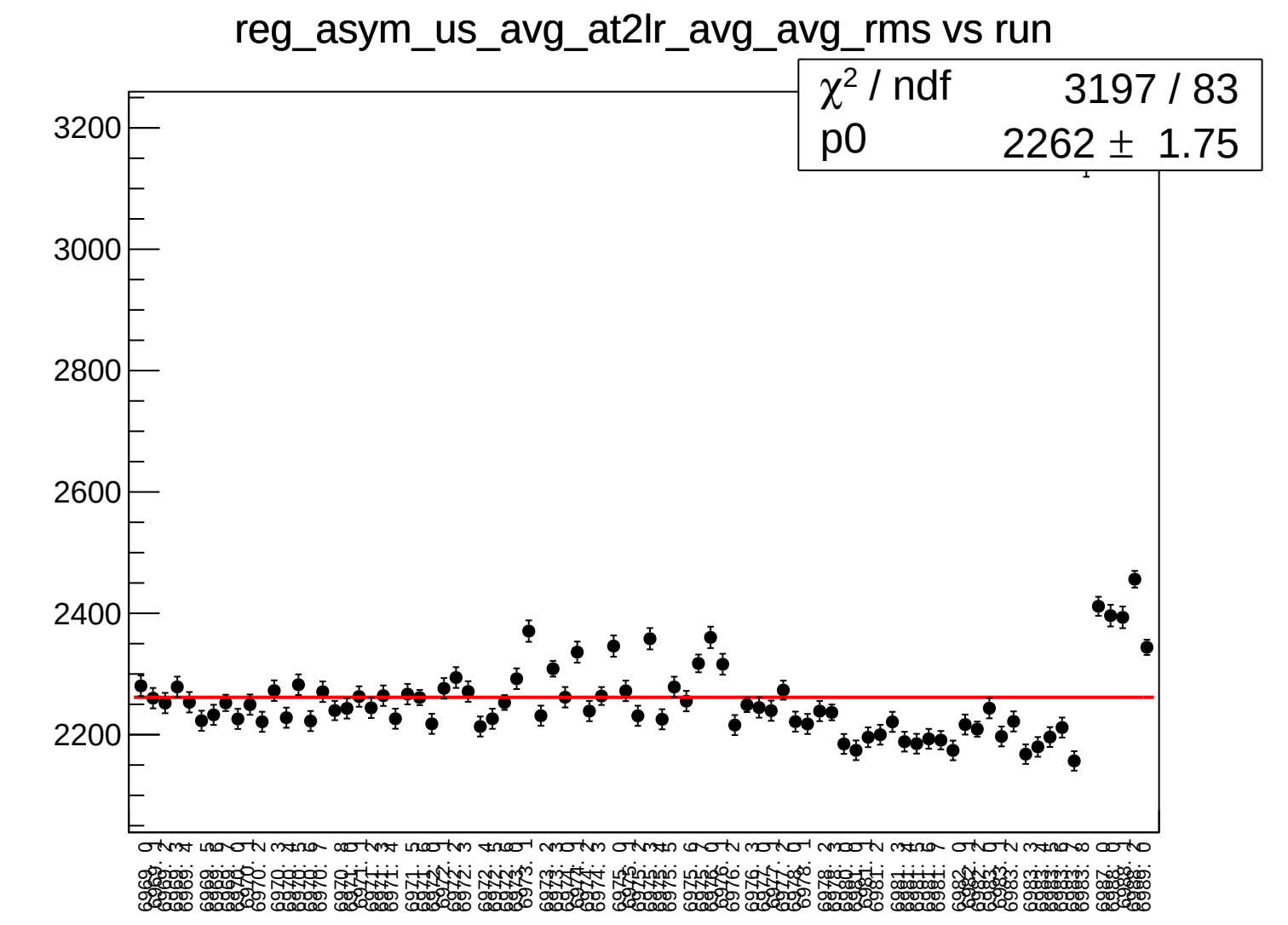

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.91 / 83
p0 2.664e−14 ± 2.602e−14
pull
Entries 84
Mean 12.87
Std Dev 0

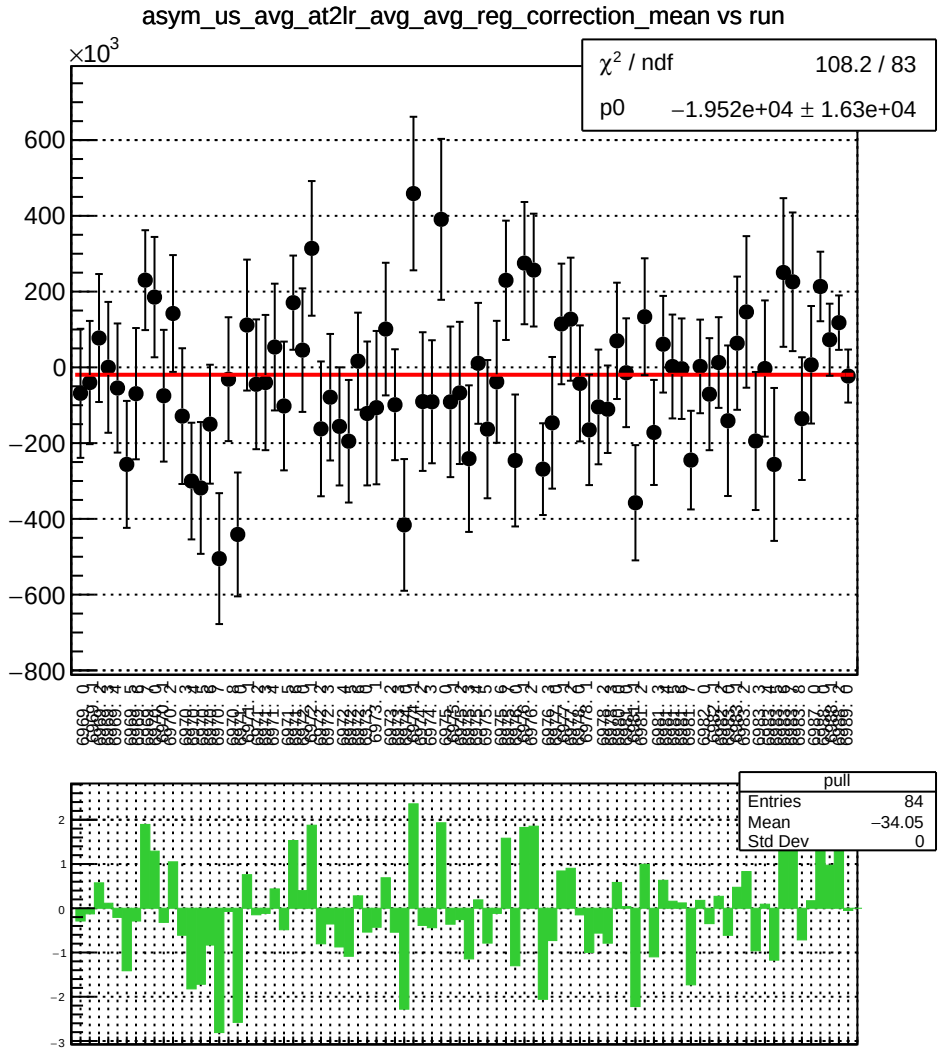

pull1D
Entries 84
Mean 0.1409
Std Dev 1.07

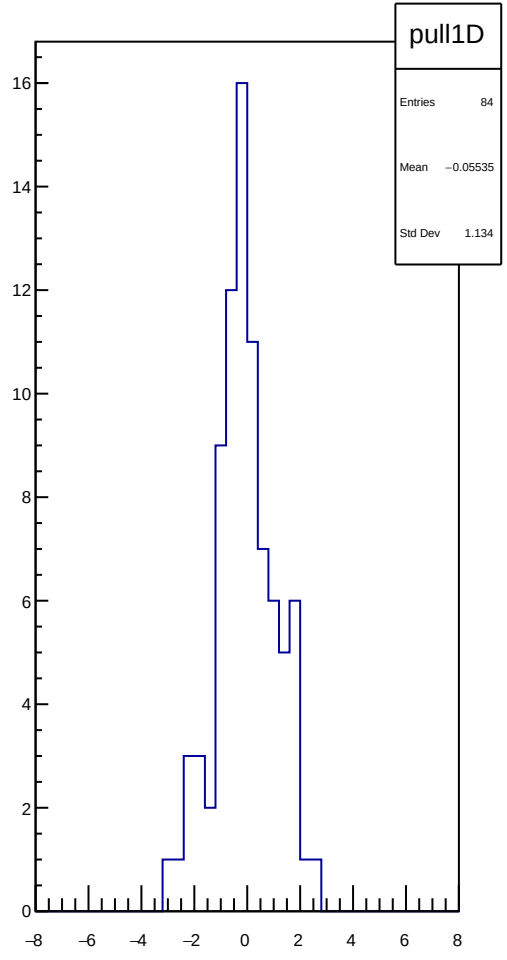

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.622e+05 / 83
p0 1.94e−11 ± 1.84e−14
0.12
0.1
0.08
0.06
0.04
0.02

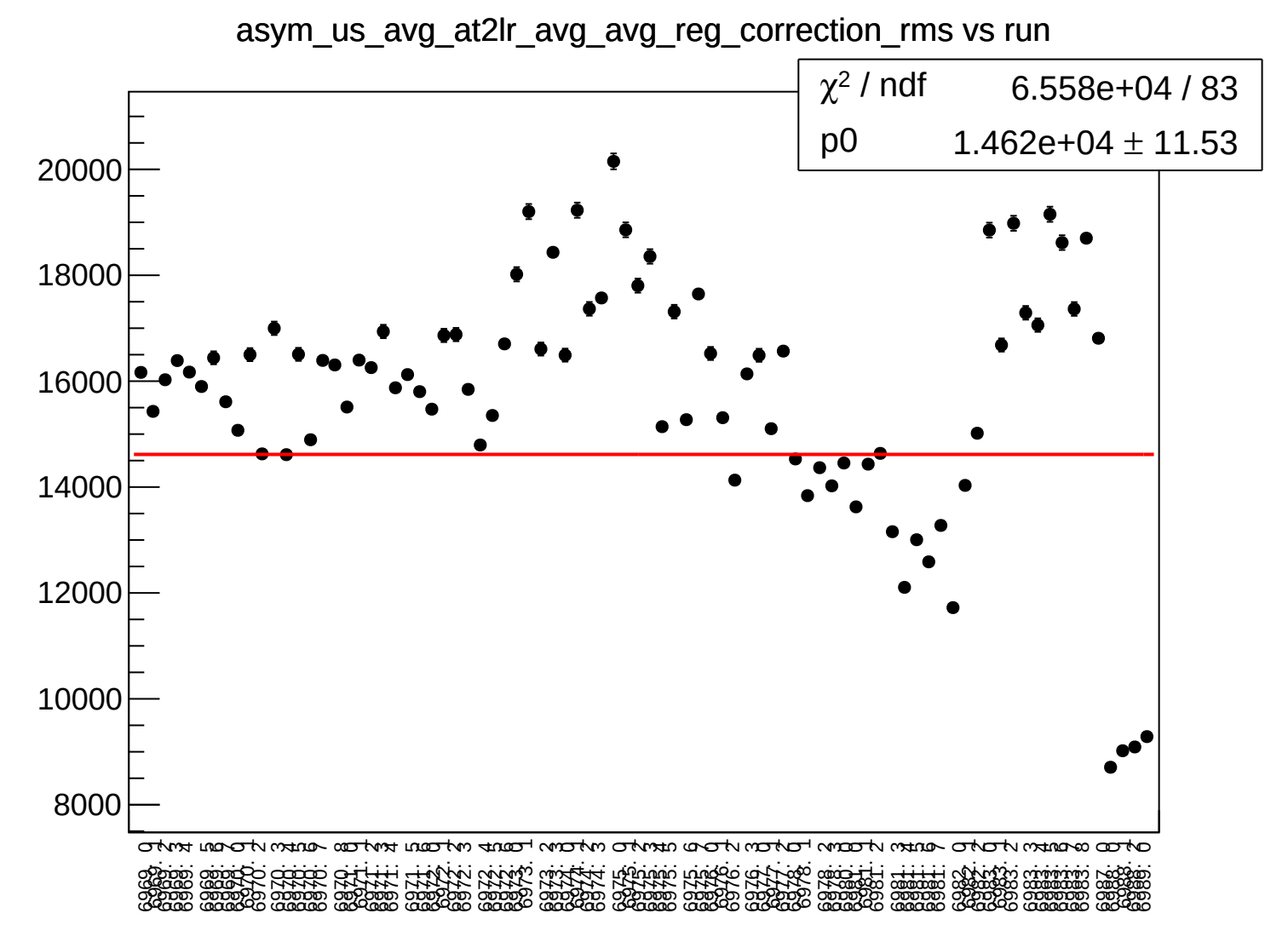

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 94.74 / 83
p0 1930 ± 2475
pull
Entries 84
Mean −156.6
Std Dev 0

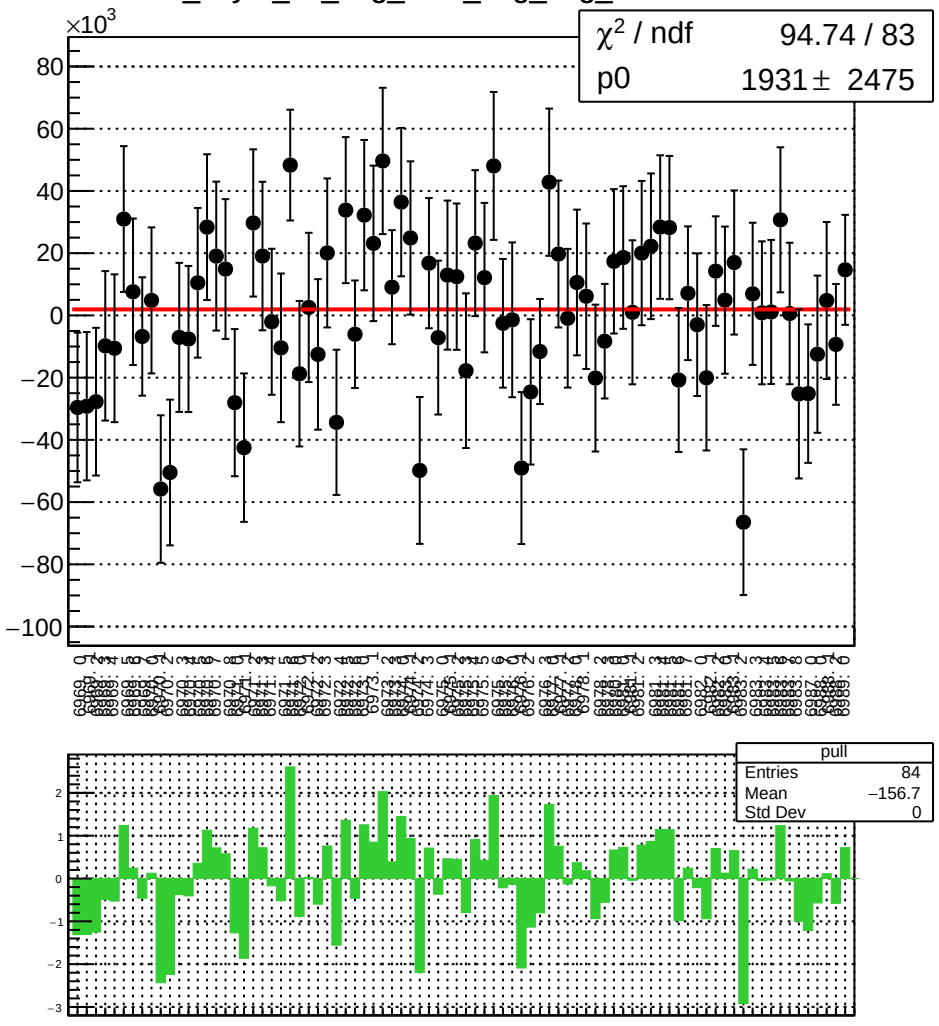

pull1D
Entries 84
Mean −0.01036
Std Dev 1.062

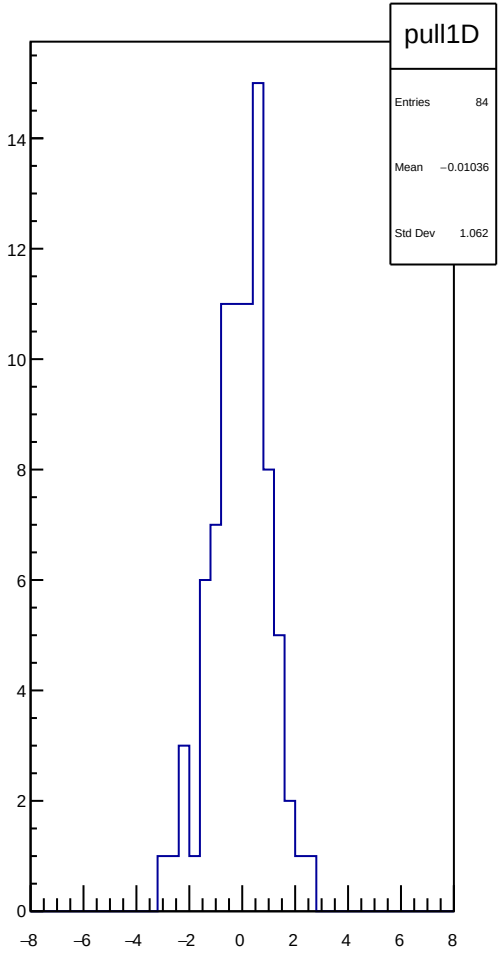

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3197 / 83
p0 2262 ± 1.75
3200
3000
2800
2600
2400
2200

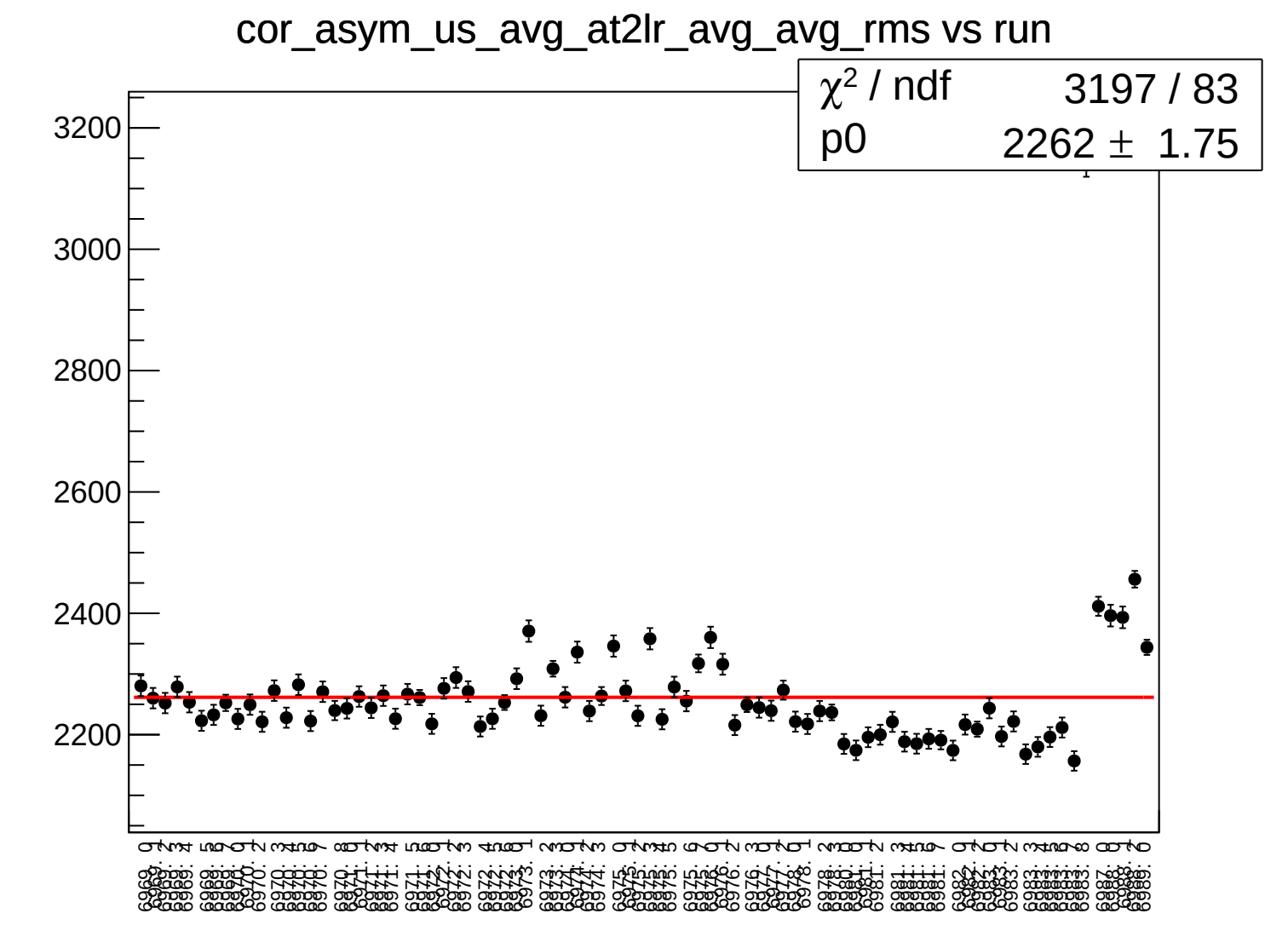

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 108.2 / 83
p0 −1.952e+04 ± 1.63e+04
pull
Entries 84
Mean −34.05
Std Dev 0

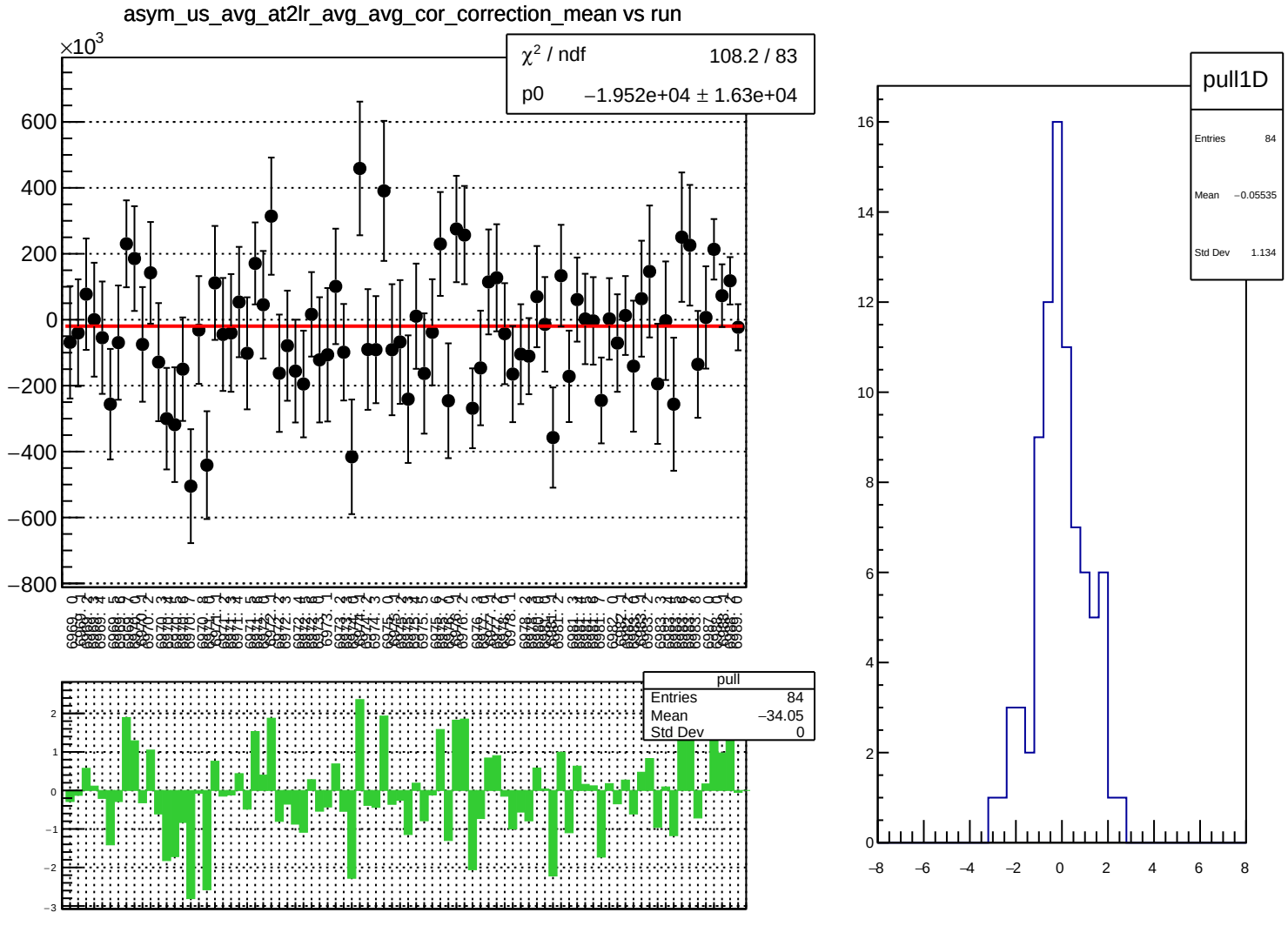

pull1D
Entries 84
Mean −0.05535
Std Dev 1.134

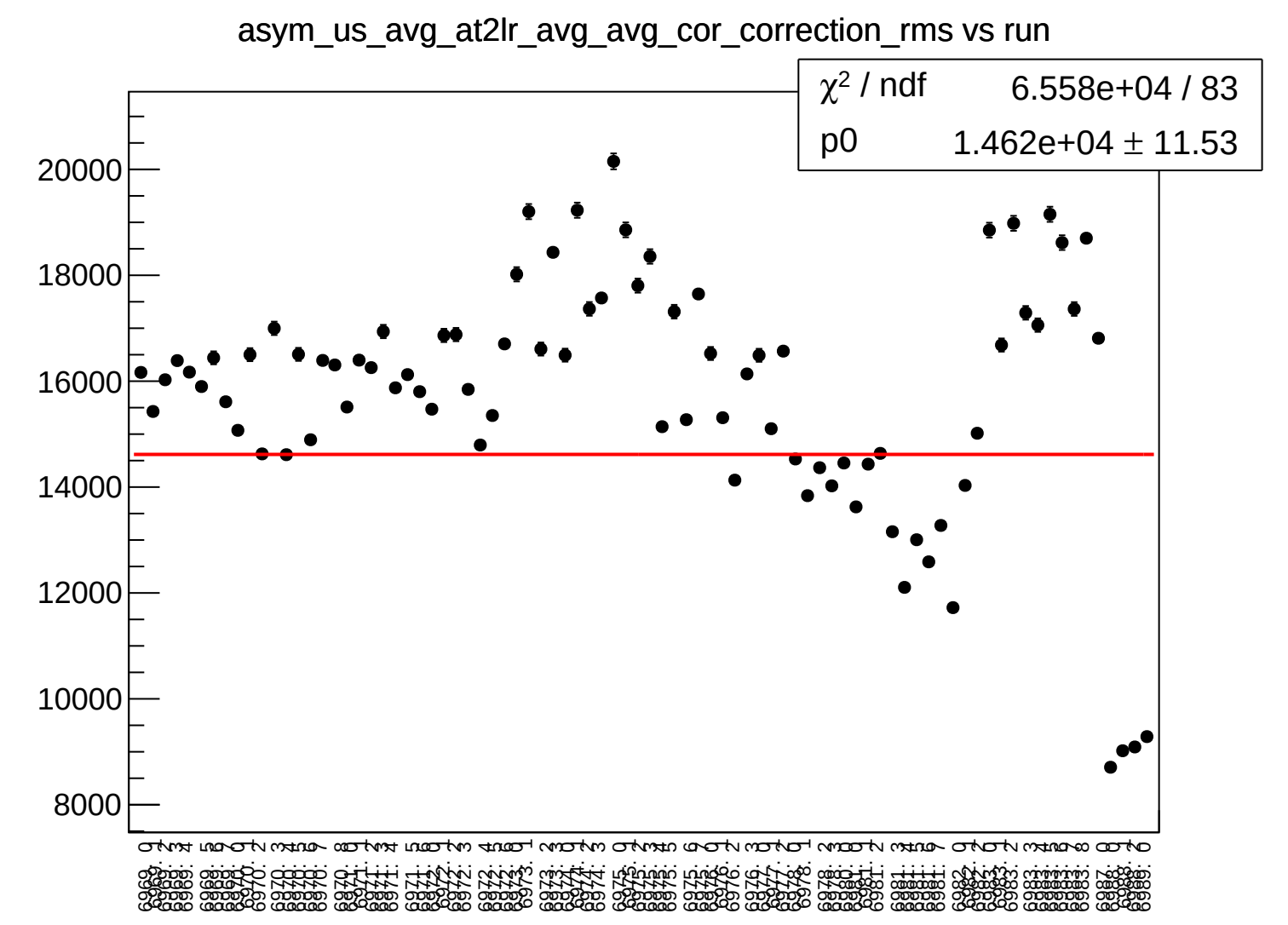

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 6.558e+04 / 83
p0 1.462e+04 ± 11.53
20000
18000
16000
14000
12000
10000
8000

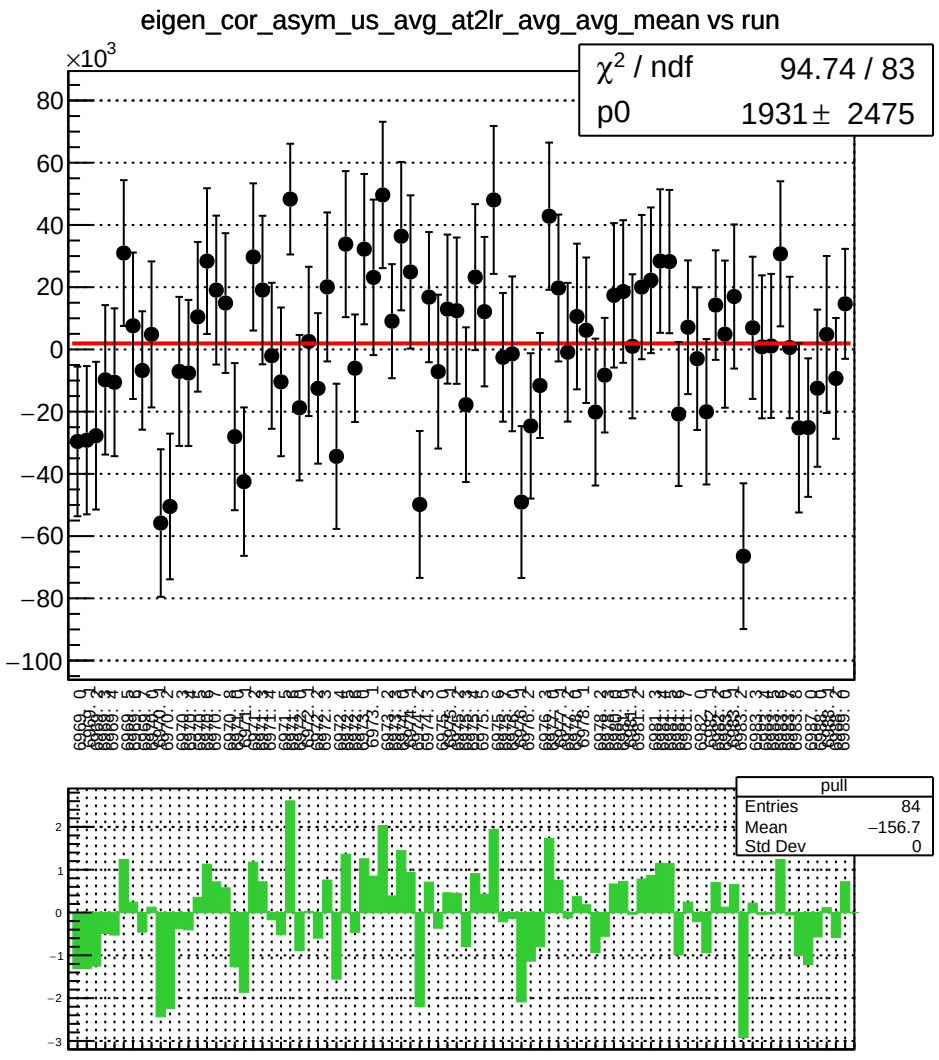

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 94.74 / 83
p0 1931 ± 2475
pull
Entries 84
Mean −156.7
Std Dev 0

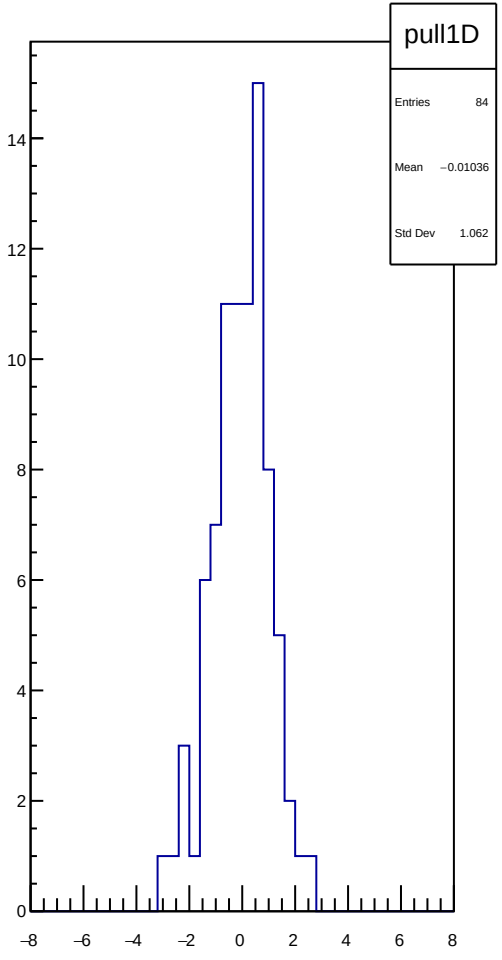

pull1D
Entries 84
Mean −0.01036
Std Dev 1.062

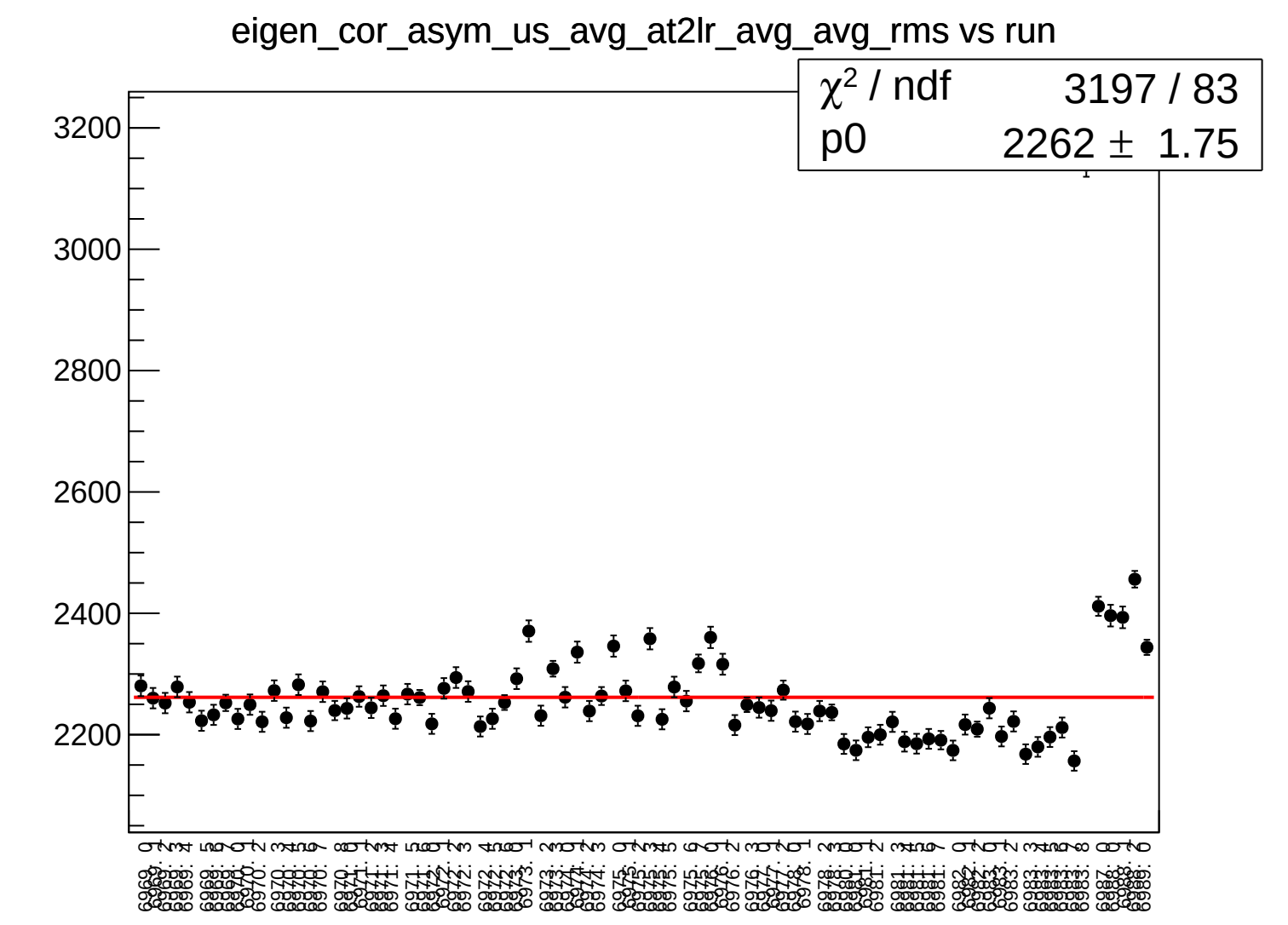

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3197 / 83
p0 2262 ± 1.75
3200
3000
2800
2600
2400
2200

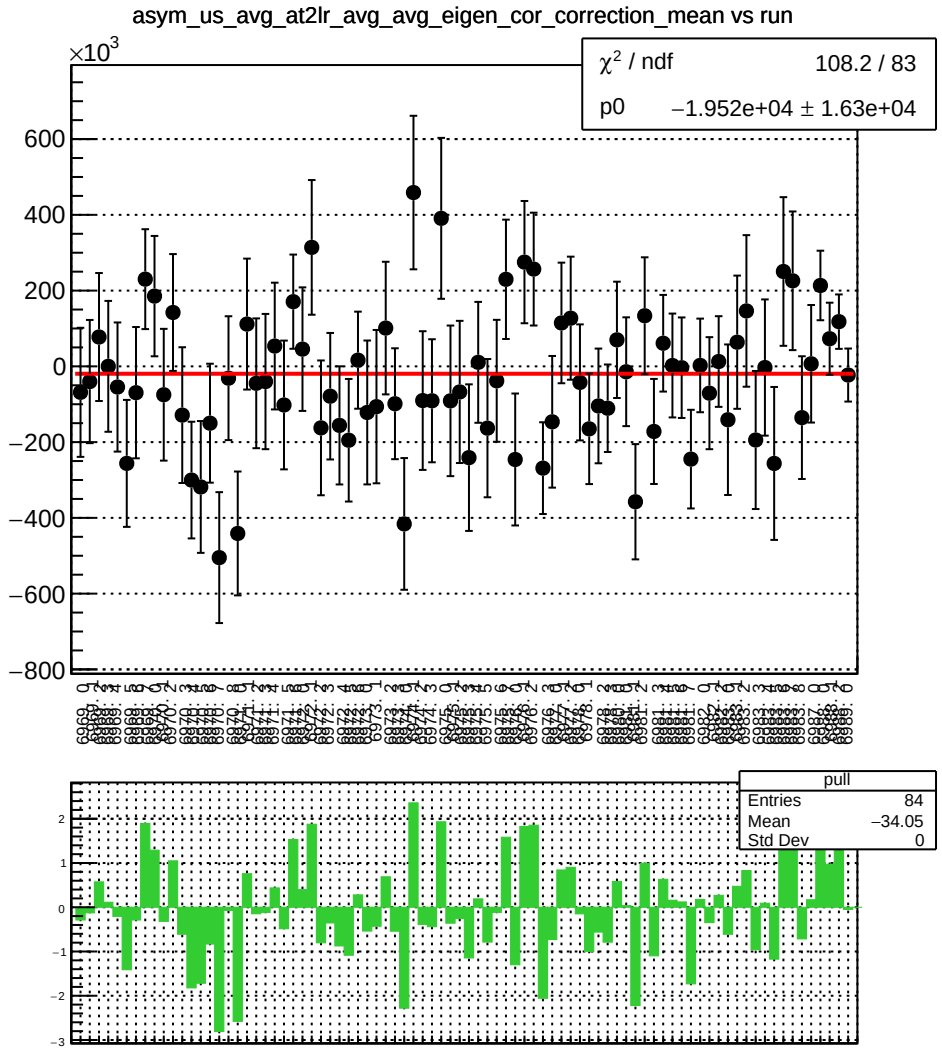

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 108.2 / 83
p0 −1.952e+04 ± 1.63e+04
pull
Entries 84
Mean −34.05
Std Dev 0
pull1D
Entries 84
Mean −0.05535
Std Dev 1.134

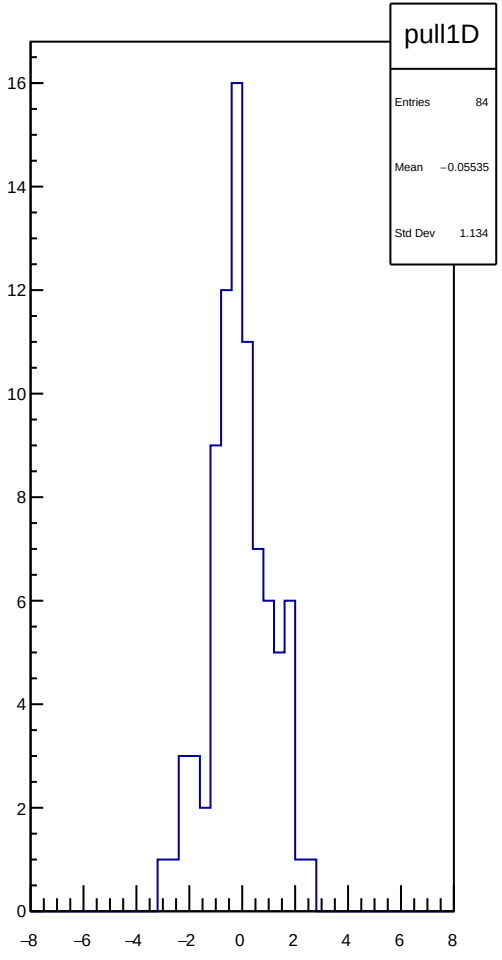

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 6.558e+04 / 83
p0 1.462e+04 ± 11.53
20000
18000
16000
14000
12000
10000
8000

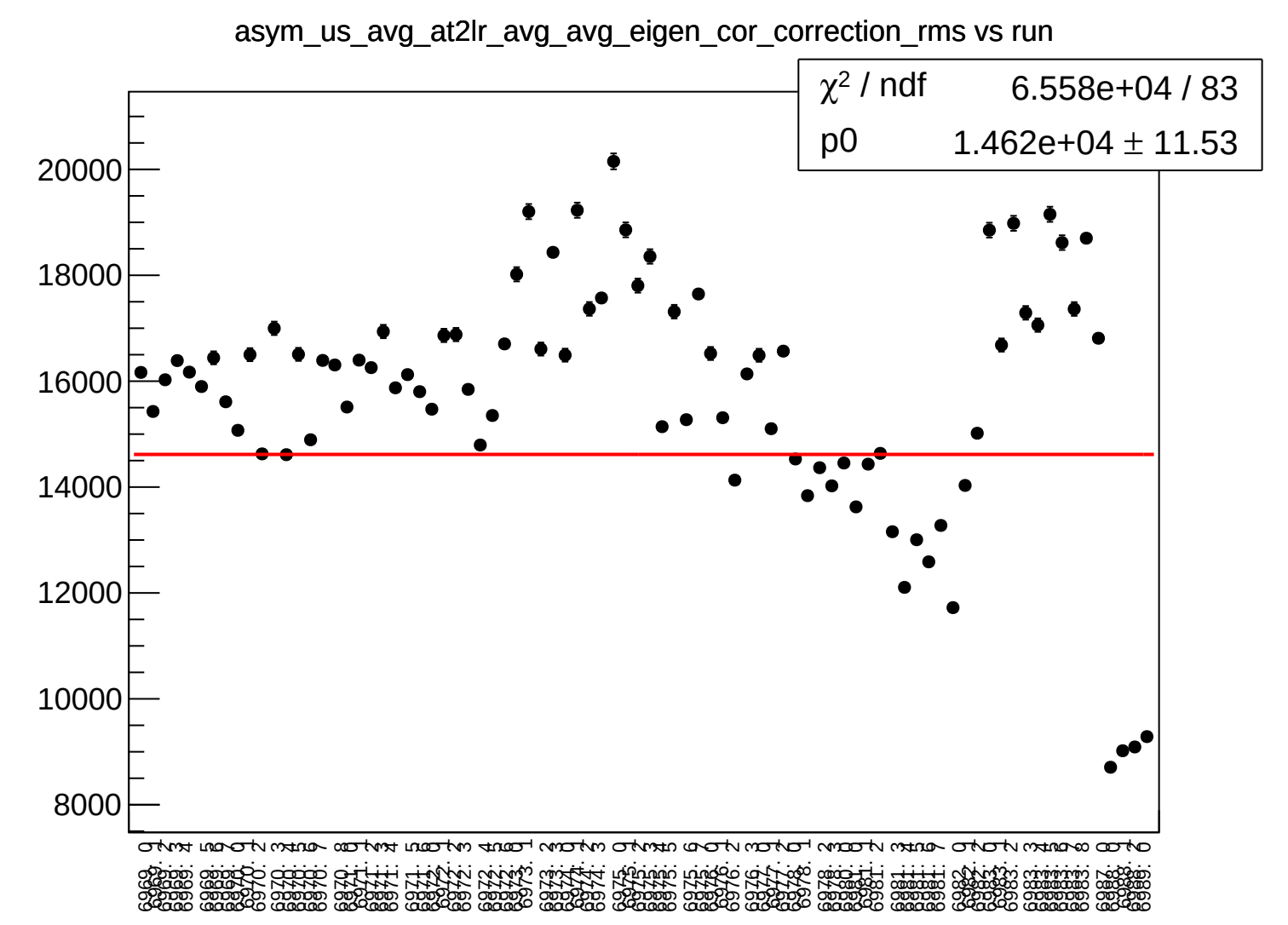

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 94.74 / 83
p0 1931 ± 2475
pull
Entries 84
Mean −156.7
Std Dev 0

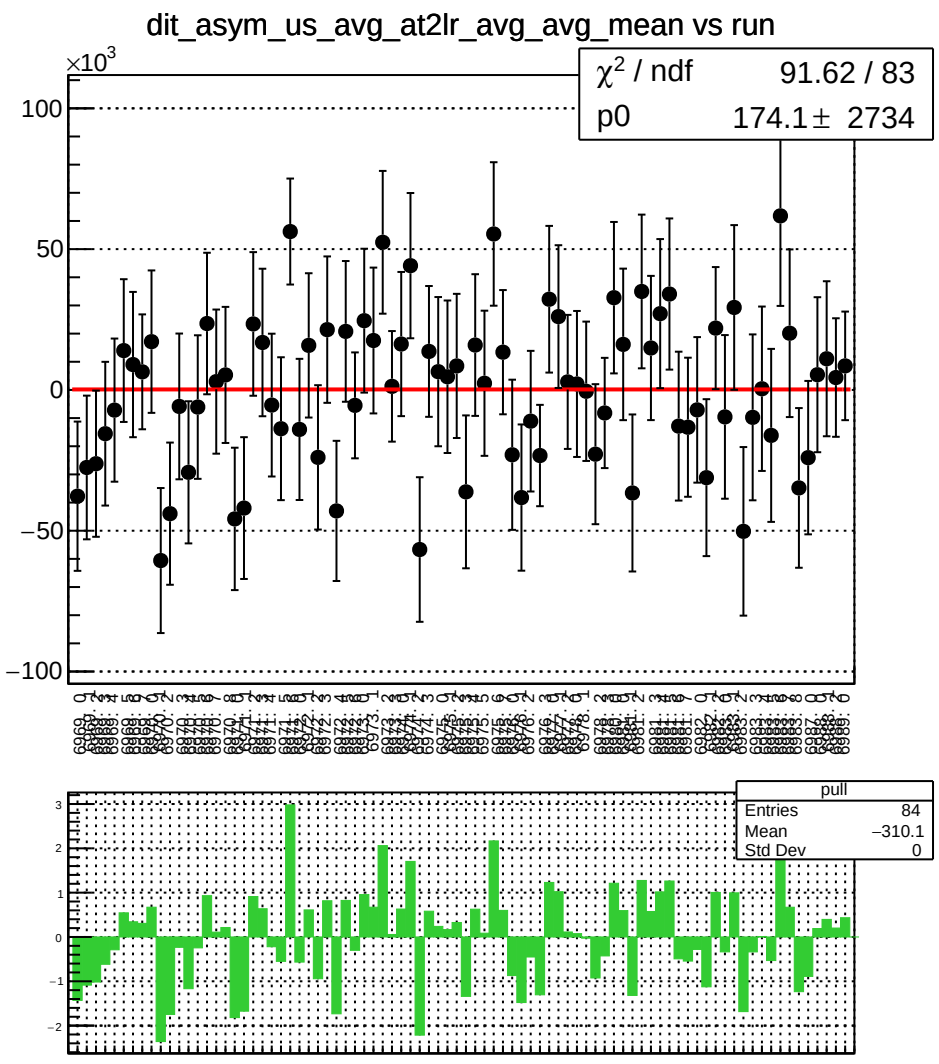

pull1D
Entries 84
Mean −0.01036
Std Dev 1.062

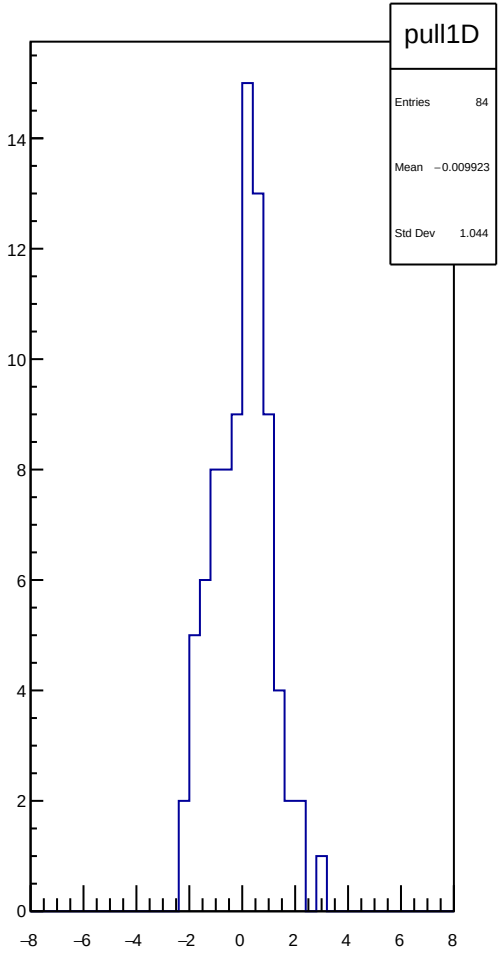

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3197 / 83
p0 2262 ± 1.75
3200
3000
2800
2600
2400
2200

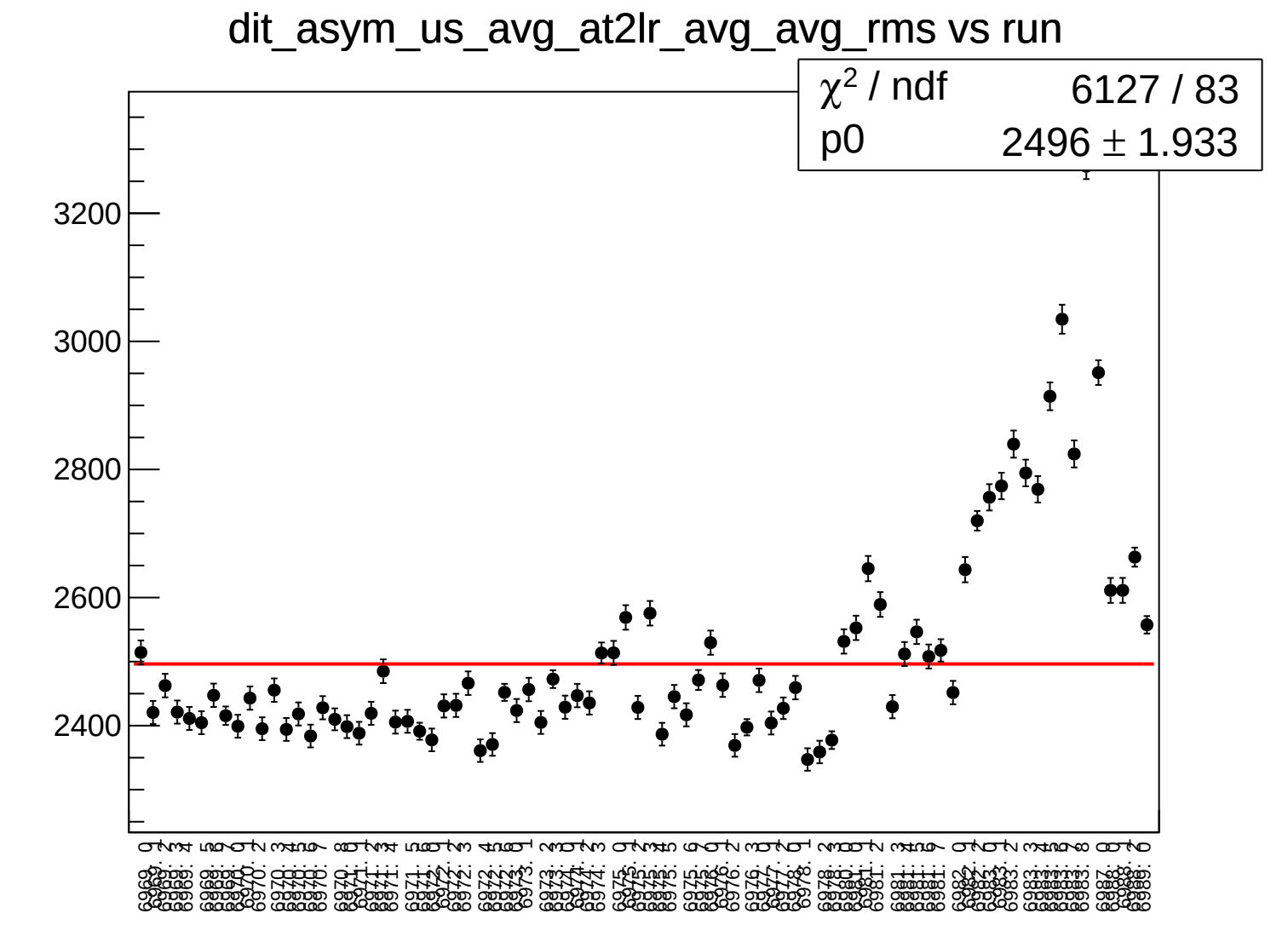

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108.2 / 83
p0 −1.952e+04 ± 1.63e+04
pull
Entries 84
Mean −34.05
Std Dev 0

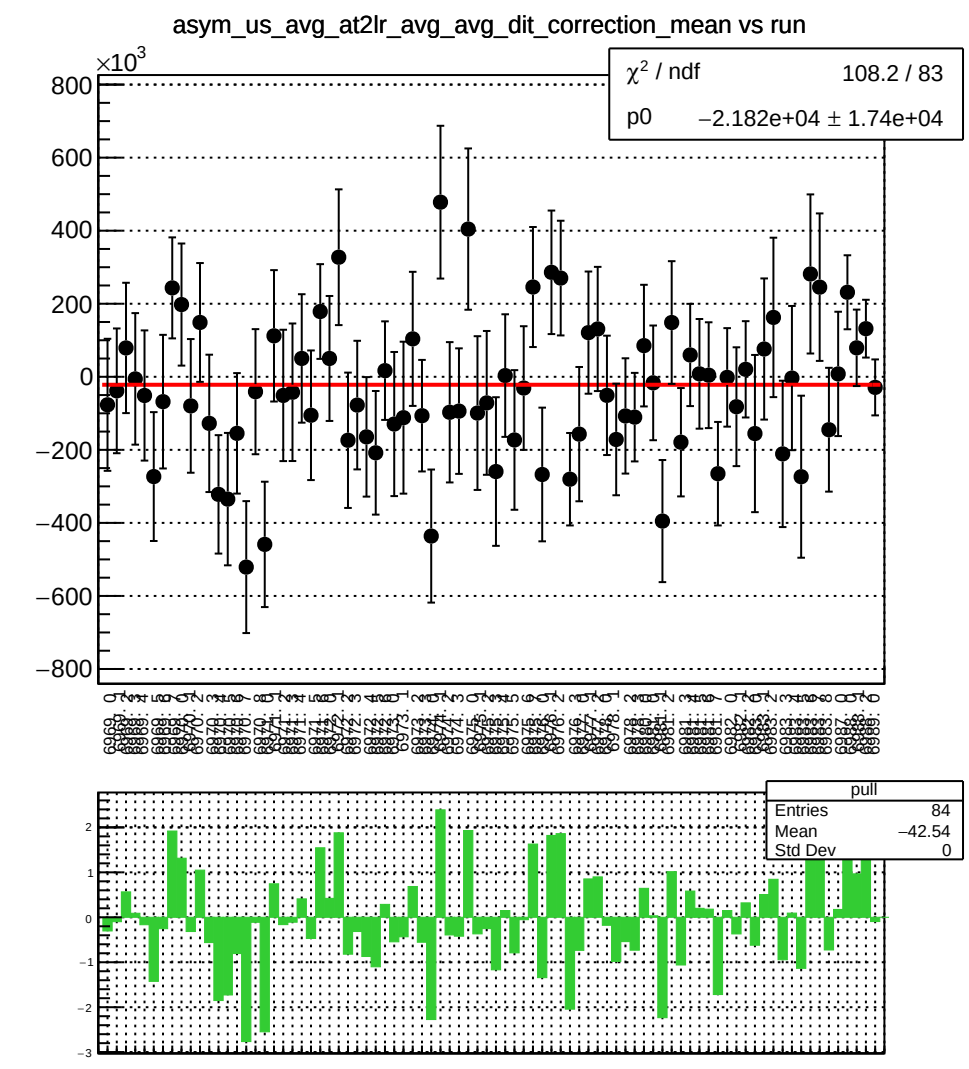

pull1D
Entries 84
Mean −0.05535
Std Dev 1.134

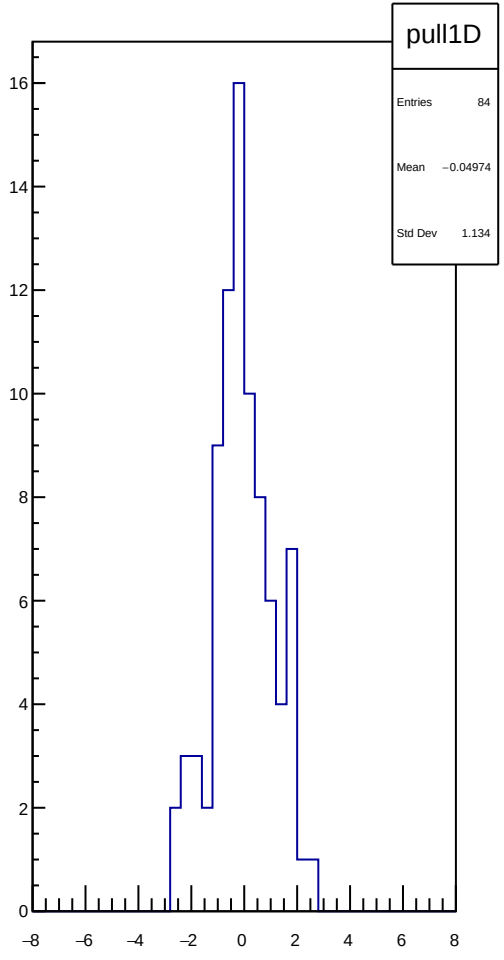

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.558e+04 / 83
p0 1.462e+04 ± 11.53
20000
18000
16000
14000
12000
10000
8000

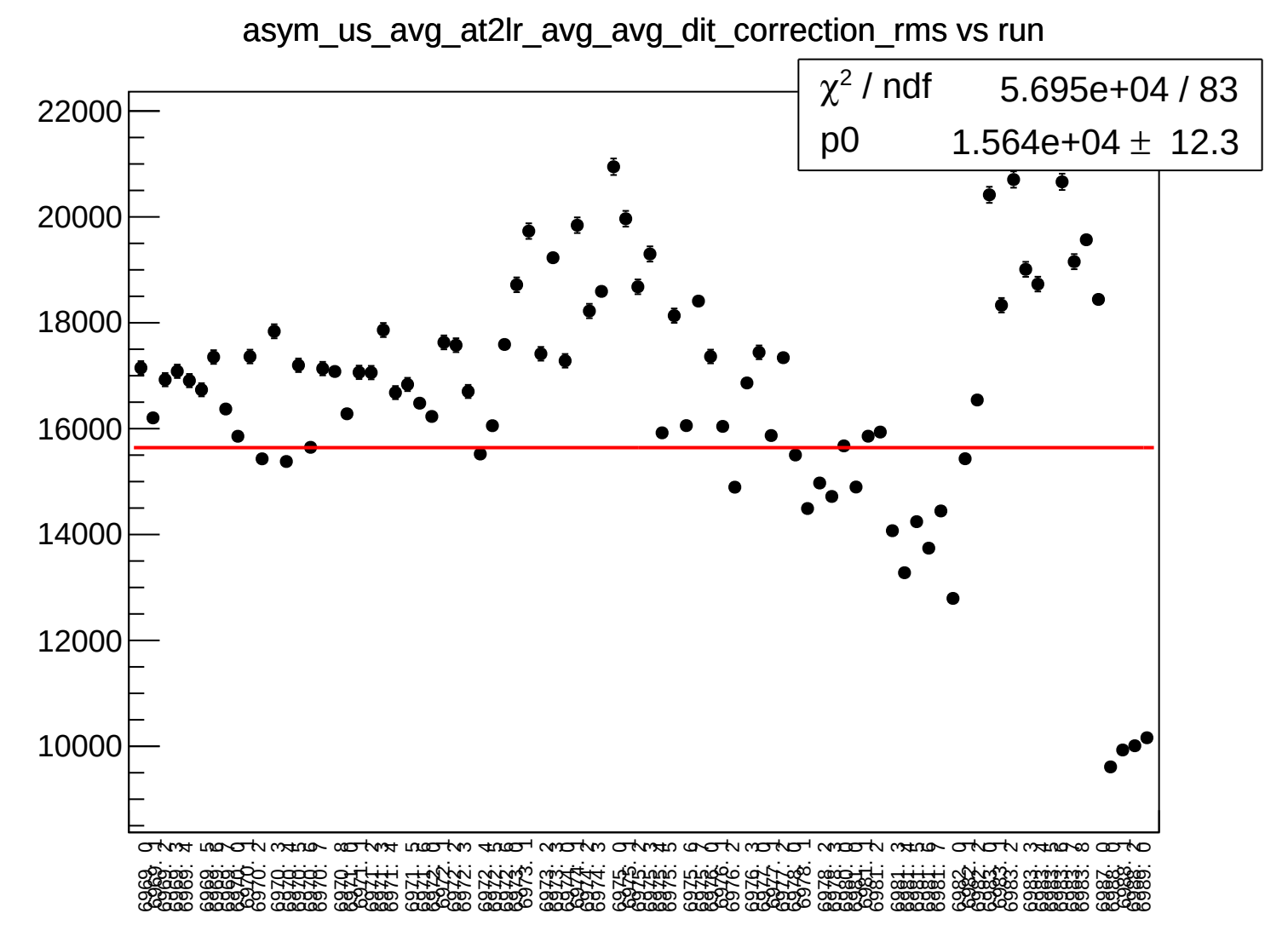

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 91.62 / 83
p0 174.1 ± 2734
100
50
0
−50
−100
pull
Entries 84
Mean −310.1
Std Dev 0
3
2
1
0
−1
−2

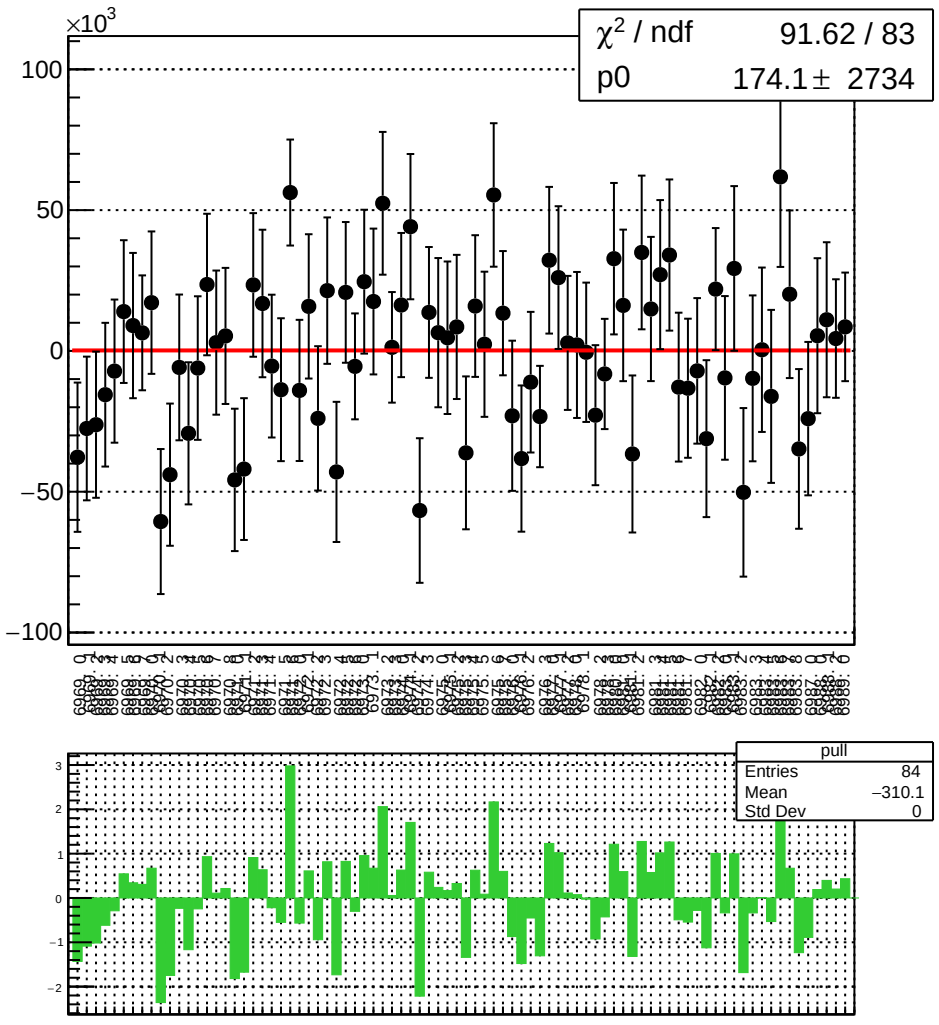

pull1D
Entries 84
Mean −0.009923
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

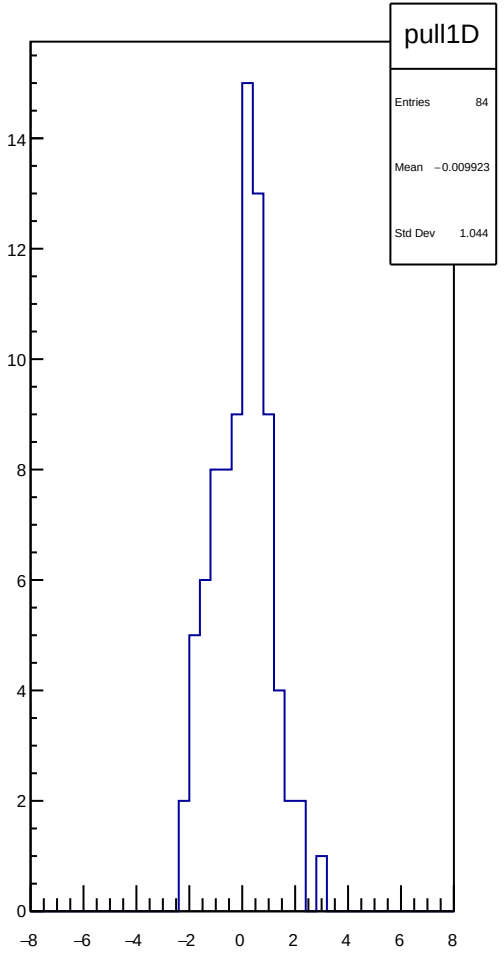

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 6127 / 83
p0 2496 ± 1.933
3200
3000
2800
2600
2400

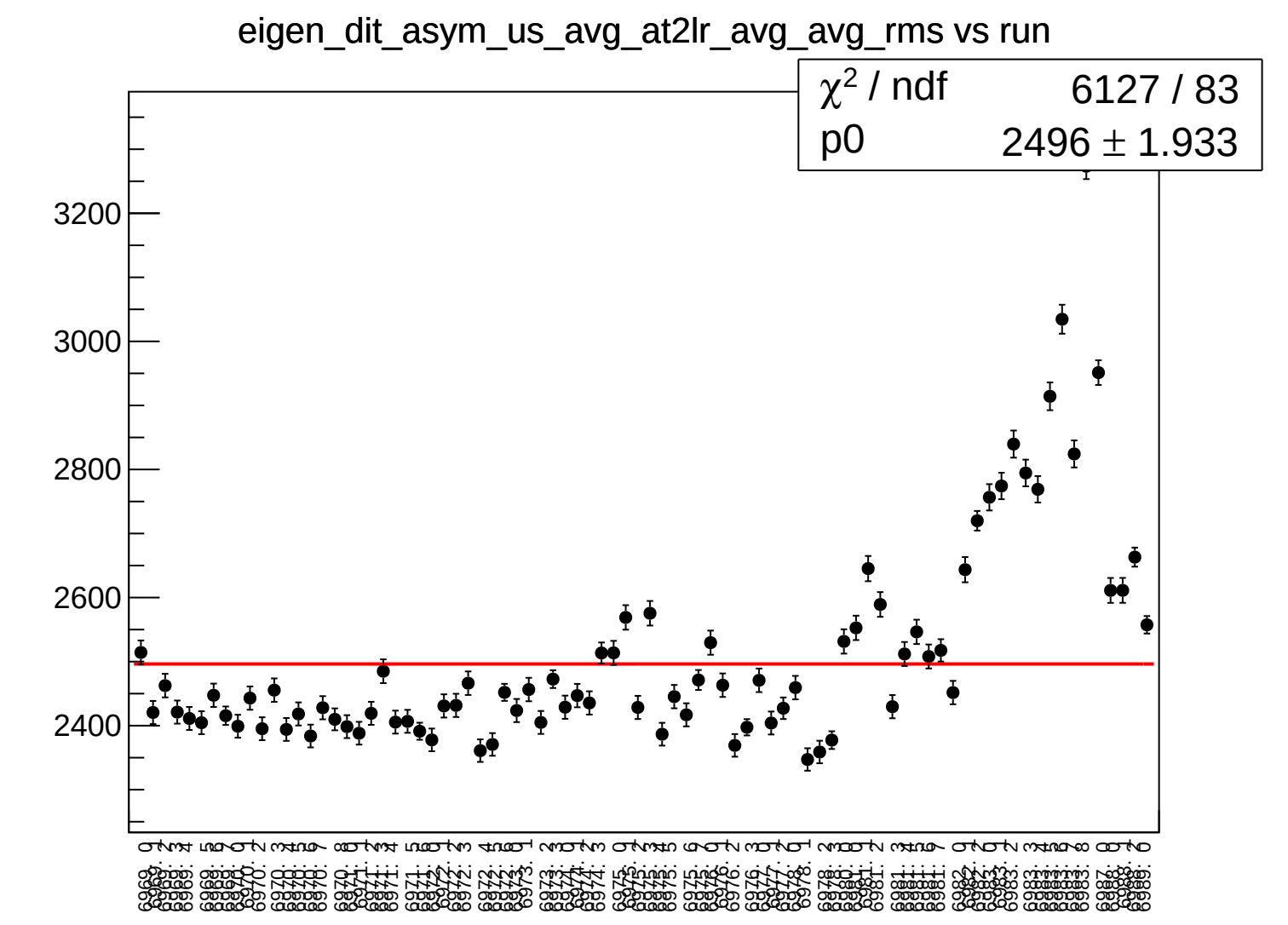

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 108.2 / 83
p0 −2.182e+04 ± 1.74e+04
pull
Entries 84
Mean −42.54
Std Dev 0

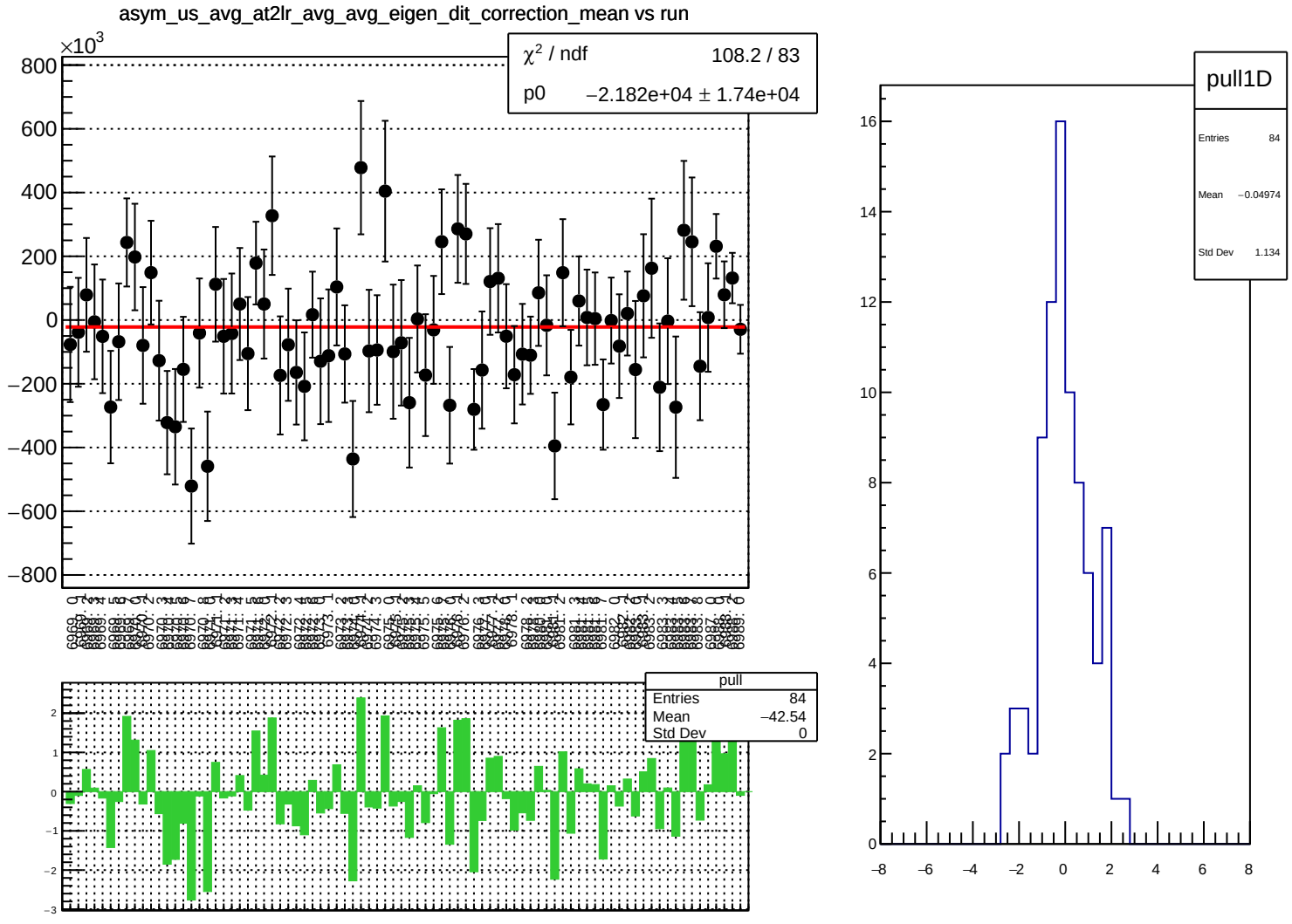

pull1D
Entries 84
Mean −0.04974
Std Dev 1.134

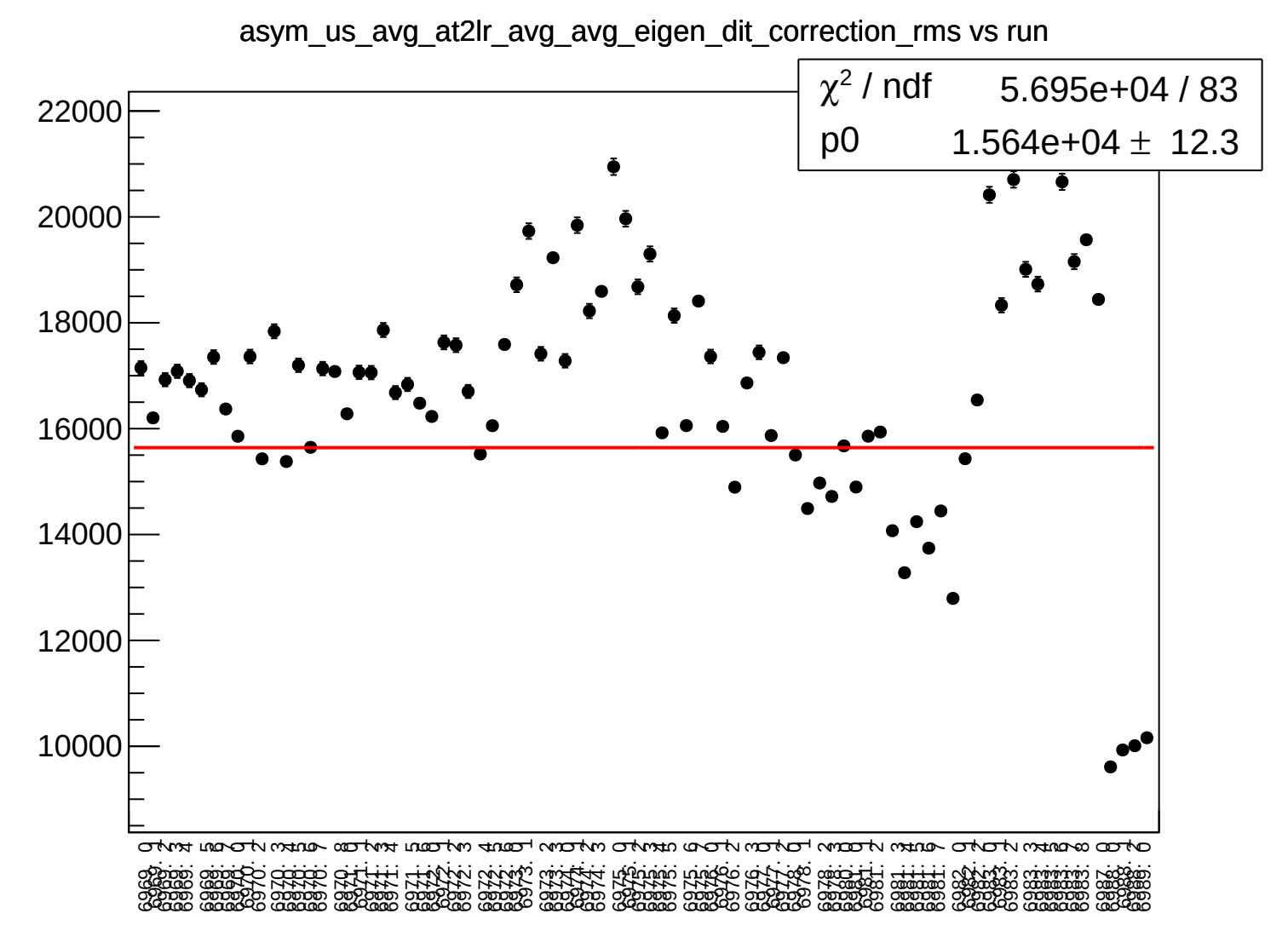

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5.695e+04 / 83
p0 1.564e+04 ± 12.3
22000
20000
18000
16000
14000
12000
10000

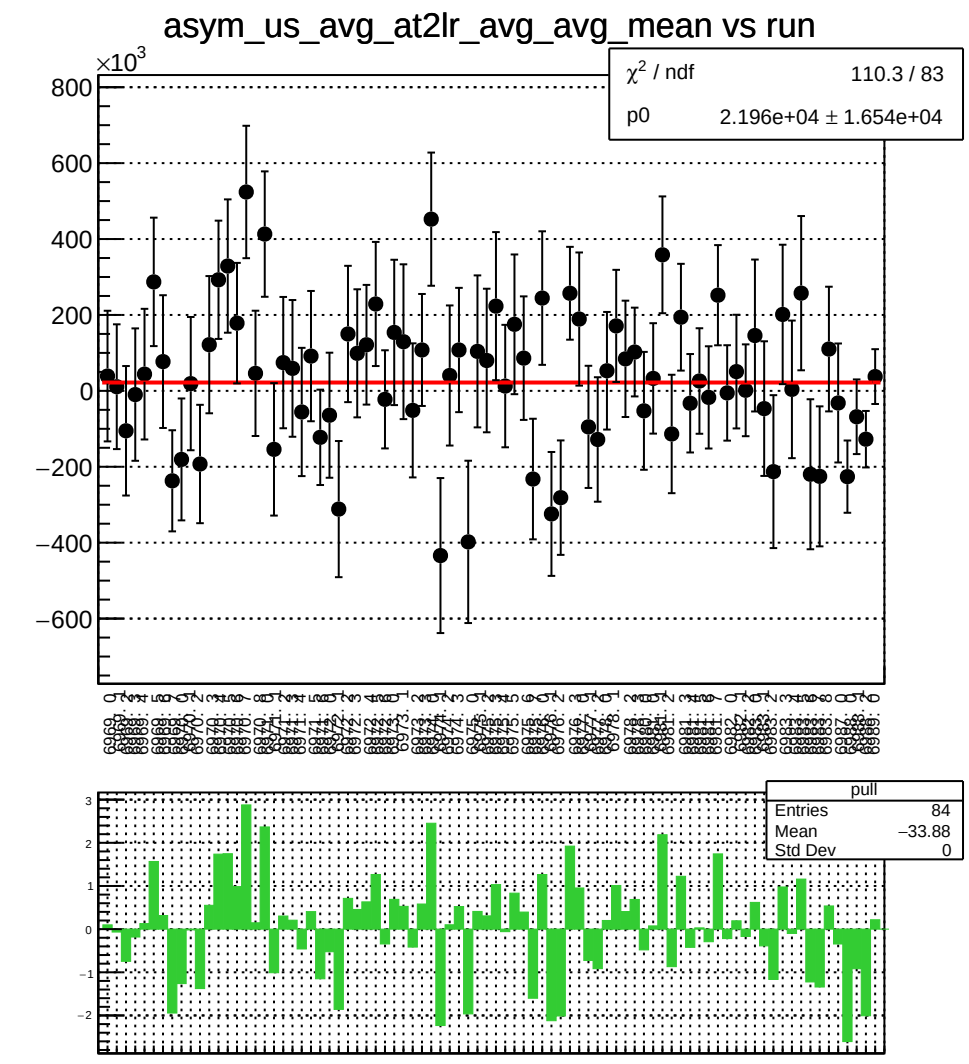

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 91.62 / 83
p0 174.1 ± 2734
100
50
0
−50
−100
pull
Entries 84
Mean −310.1
Std Dev 0
3
2
1
0
−1
−2

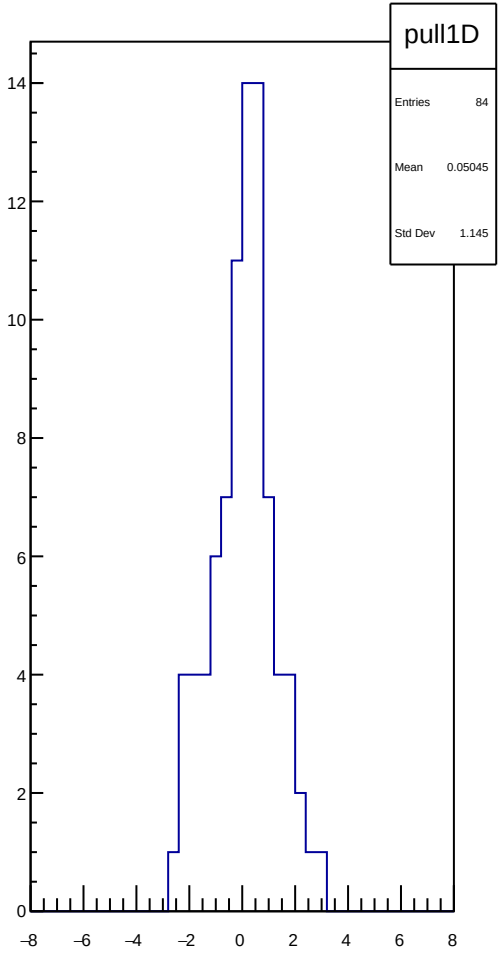

pull1D
Entries 84
Mean −0.009923
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

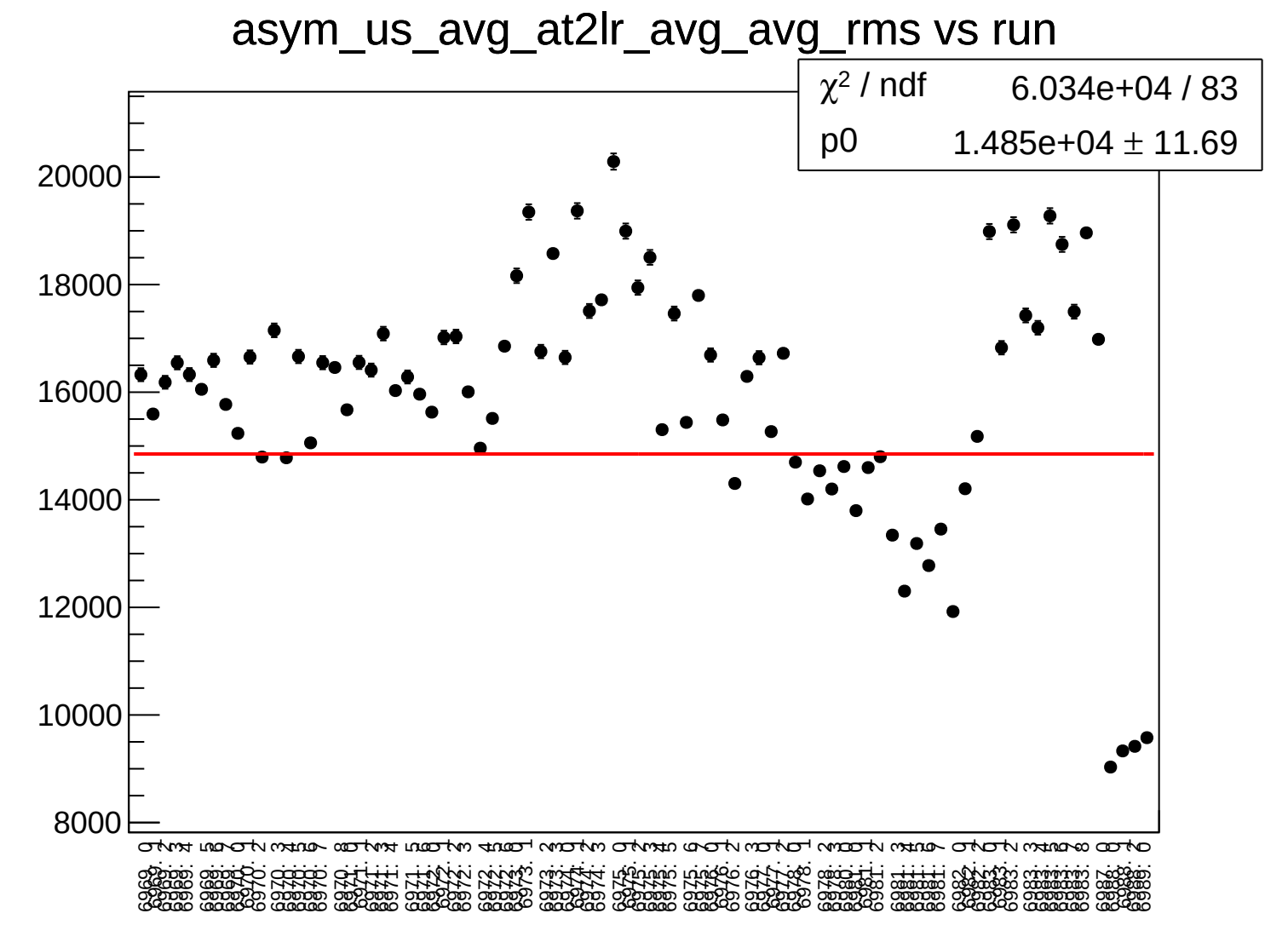

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 6127 / 83
p0 2496 ± 1.933
3200
3000
2800
2600
2400

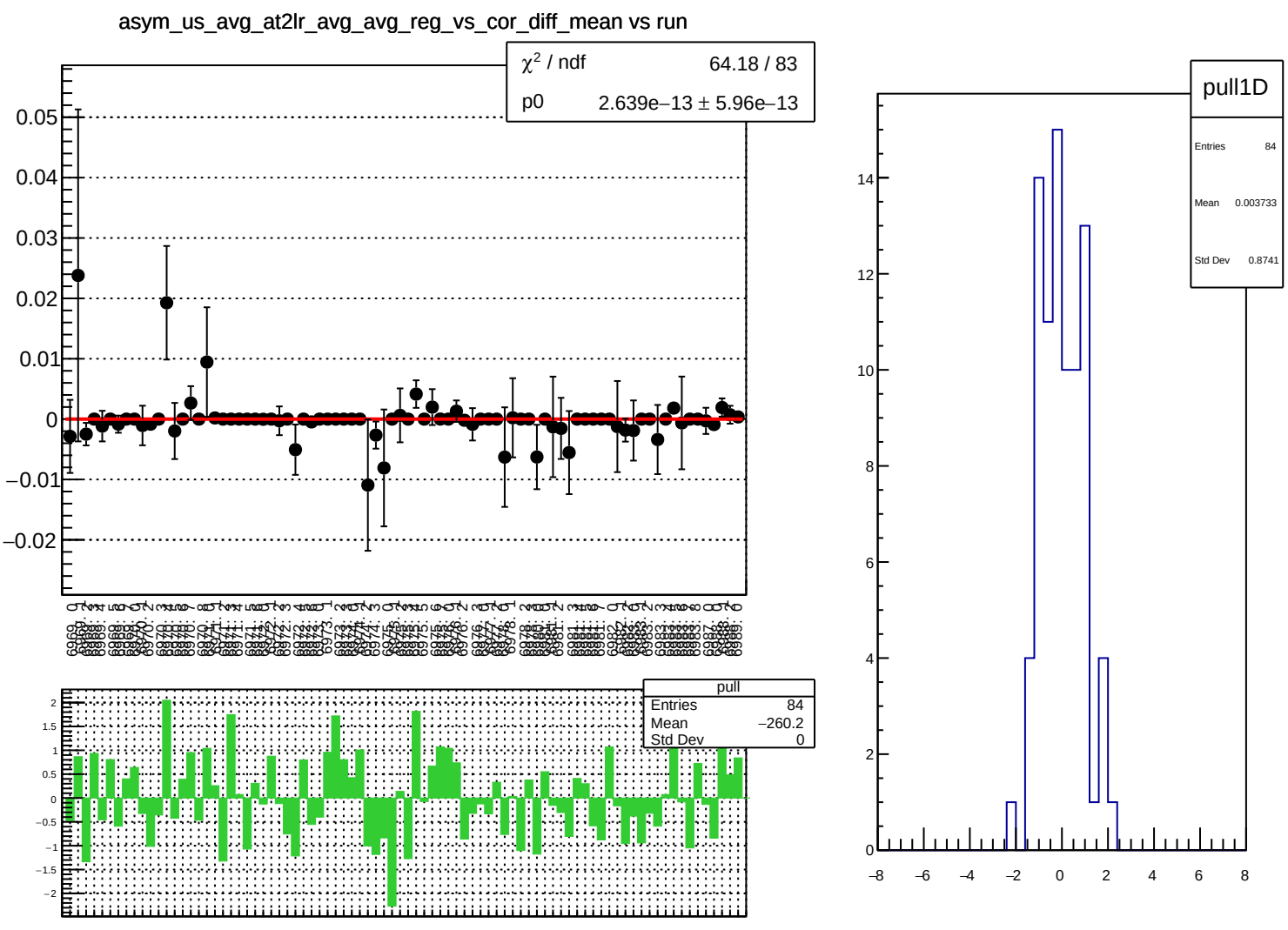

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 108.2 / 83
p0 −2.182e+04 ± 1.74e+04
pull
Entries 84
Mean −42.54
Std Dev 0
pull1D
Entries 84
Mean −0.04974
Std Dev 1.134

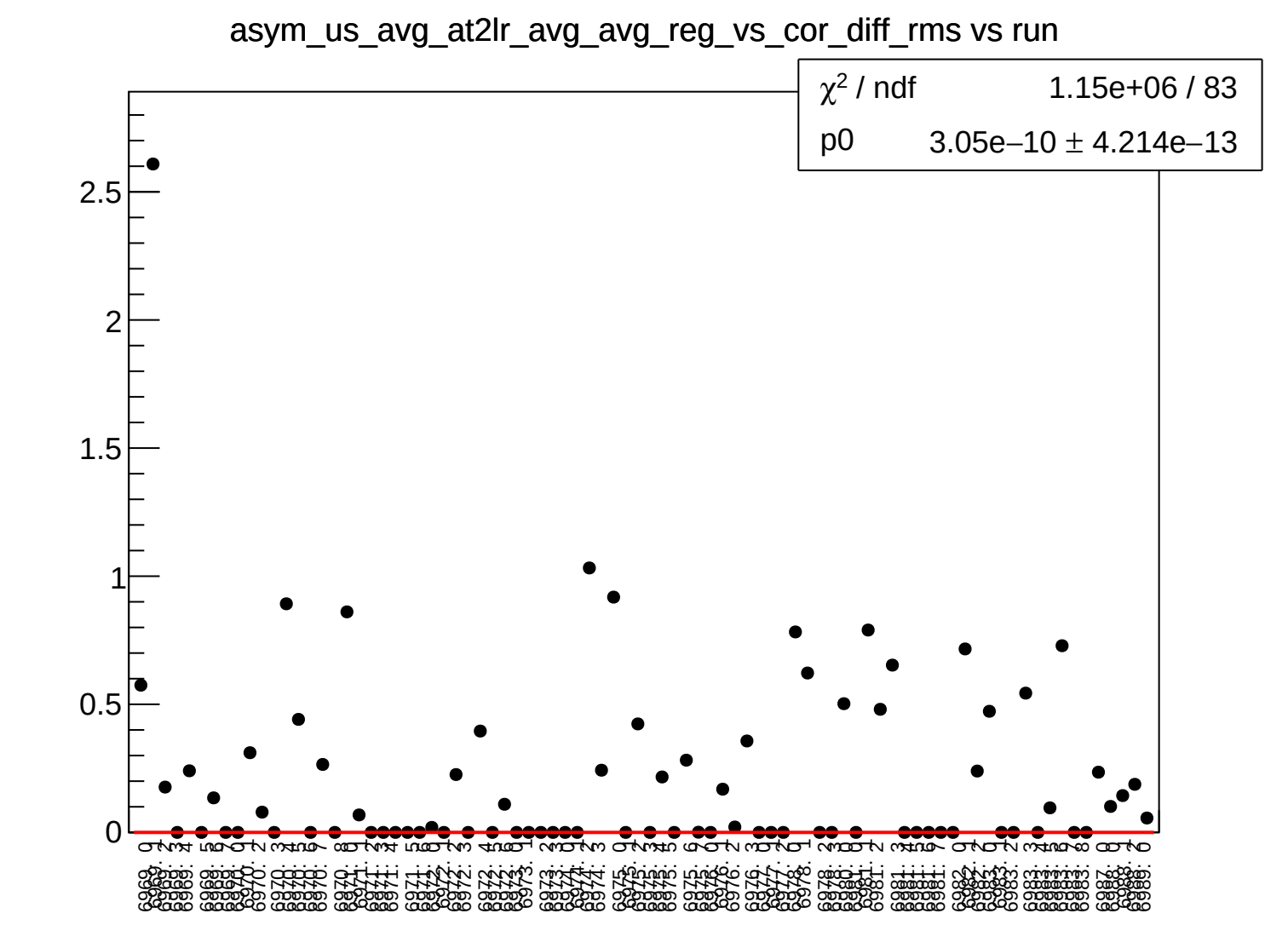

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.695e+04 / 83
p0 1.564e+04 ± 12.3
22000
20000
18000
16000
14000
12000
10000

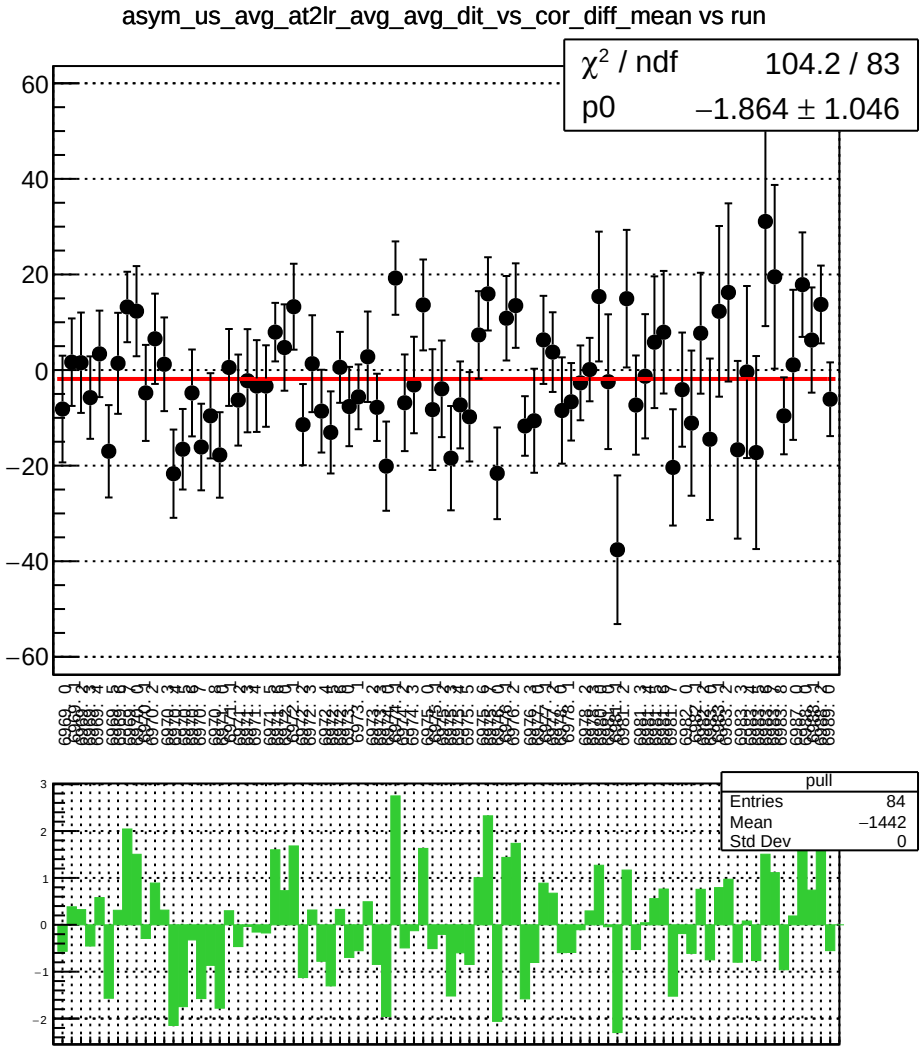

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
800
600
400
200
0
−200
−400
−600
χ² / ndf 110.3 / 83
p0 2.196e+04 ± 1.654e+04
pull
Entries 84
Mean −33.88
Std Dev 0
3
2
1
0
−1
−2

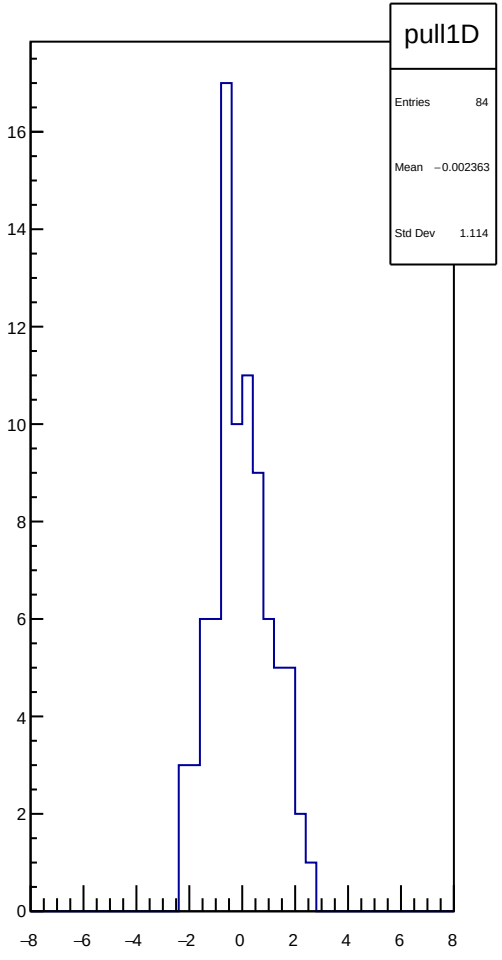

pull1D
Entries 84
Mean 0.05045
Std Dev 1.145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

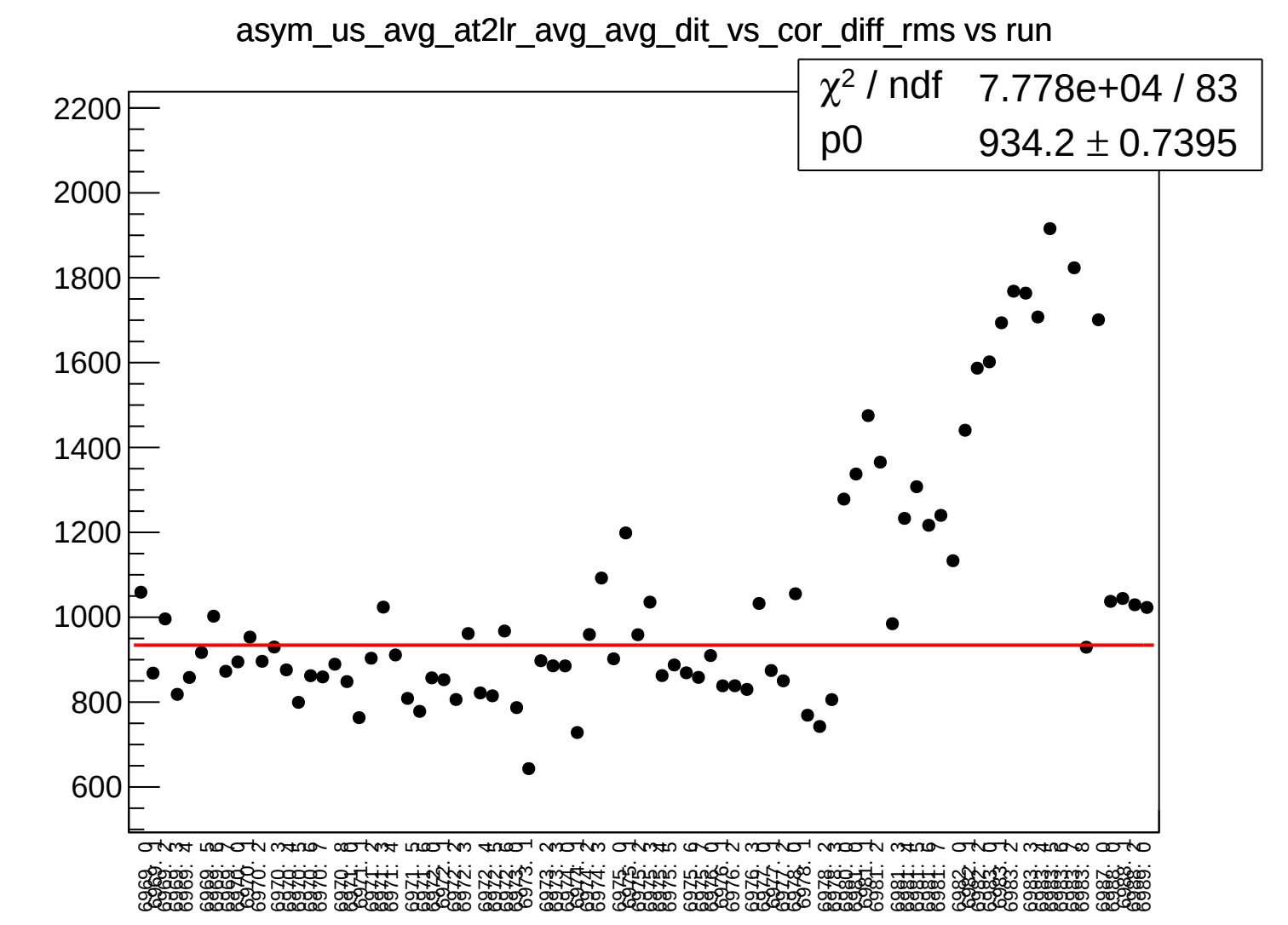

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 6.034e+04 / 83
p0 1.485e+04 ± 11.69
20000
18000
16000
14000
12000
10000
8000

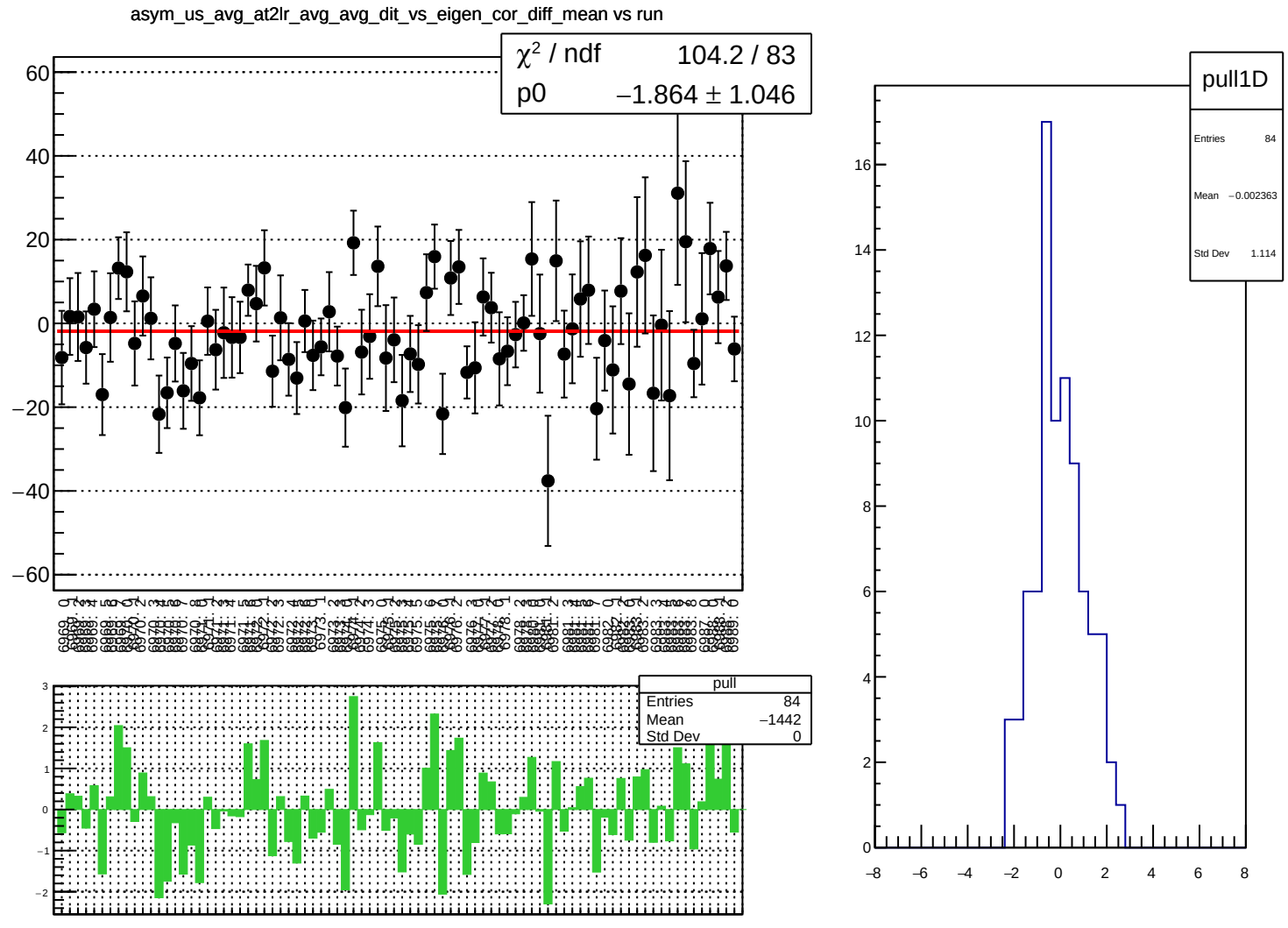

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.18 / 83
p0 2.639e−13 ± 5.96e−13
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean −260.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.003733
Std Dev 0.8741
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

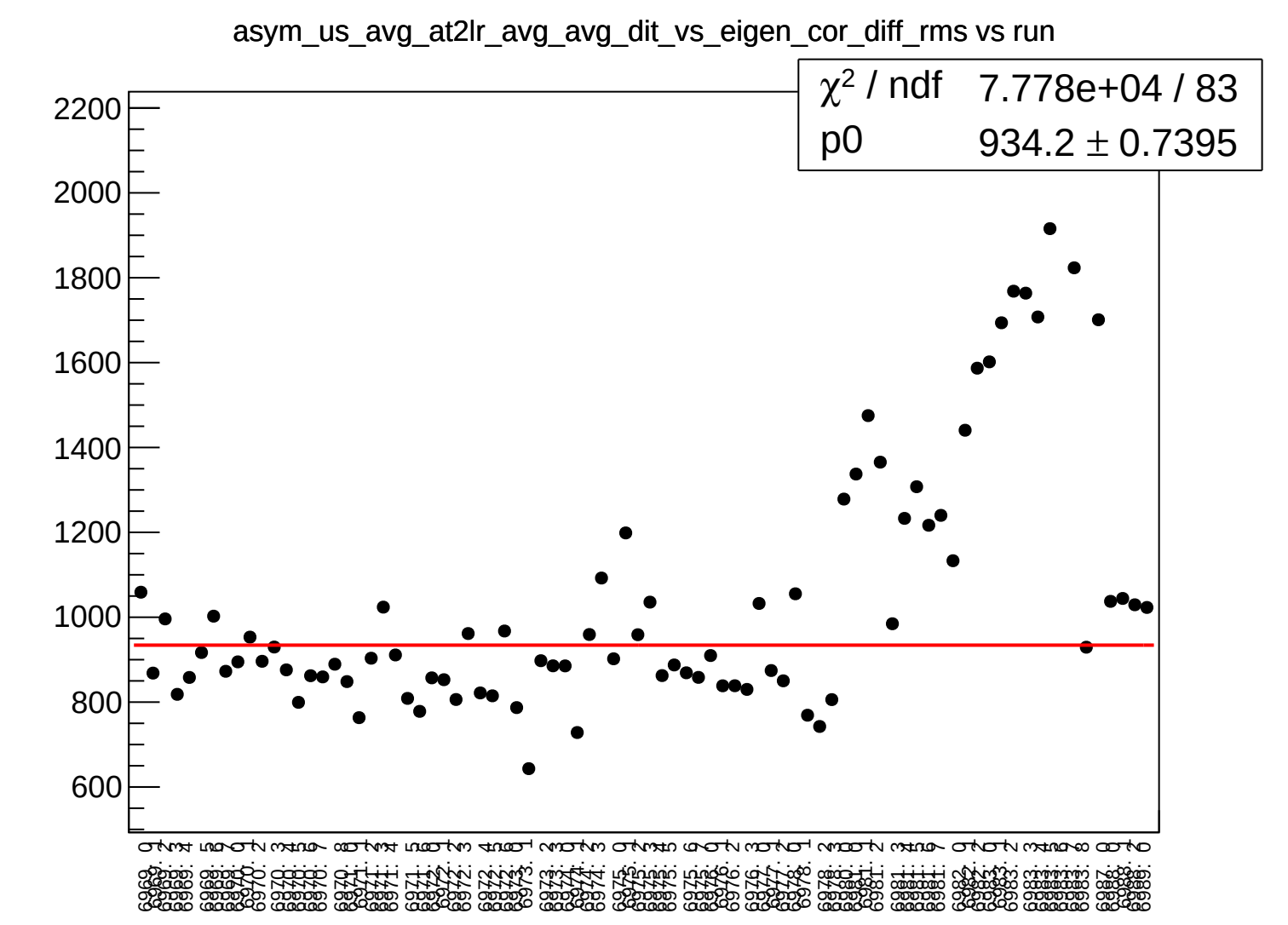

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.15e+06 / 83
p0 3.05e−10 ± 4.214e−13
2.5
2
1.5
1
0.5
0

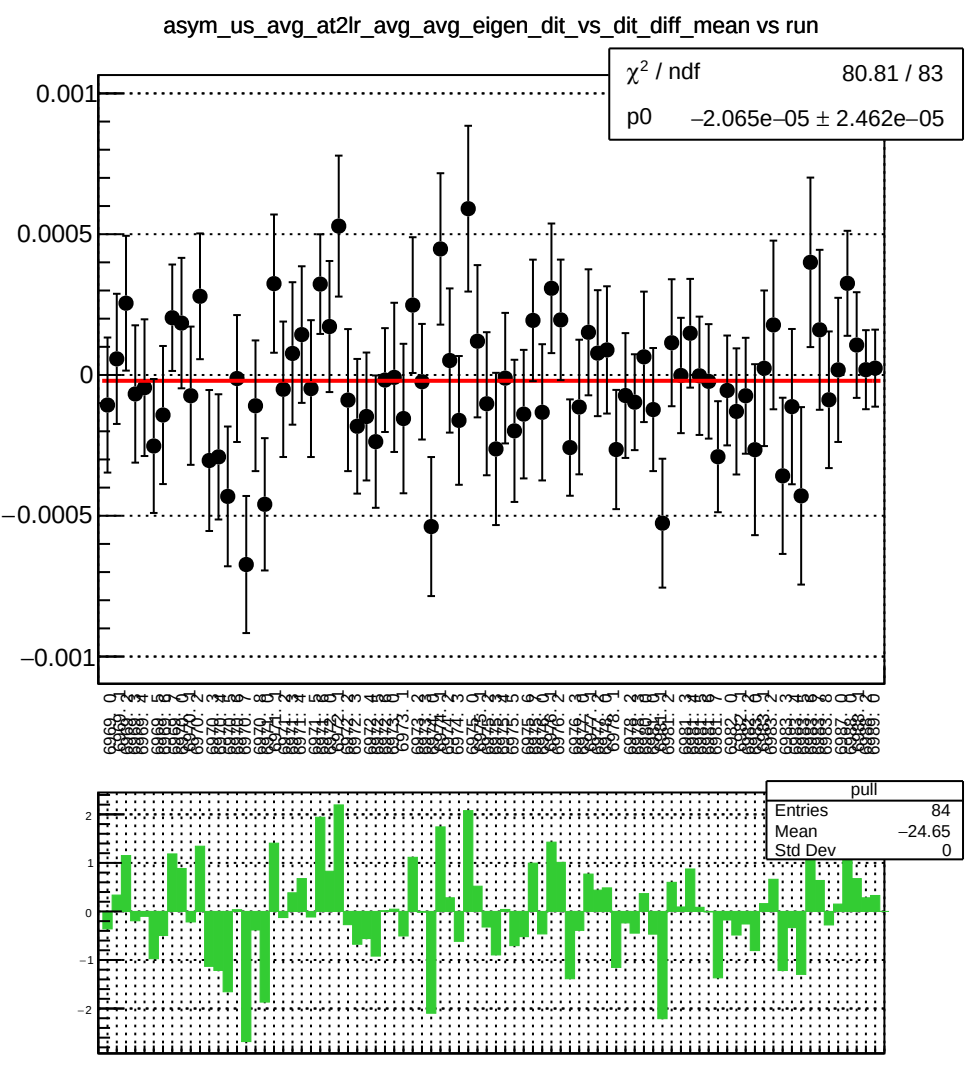

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 83
p0 −1.864 ± 1.046
pull
Entries 84
Mean −1442
Std Dev 0

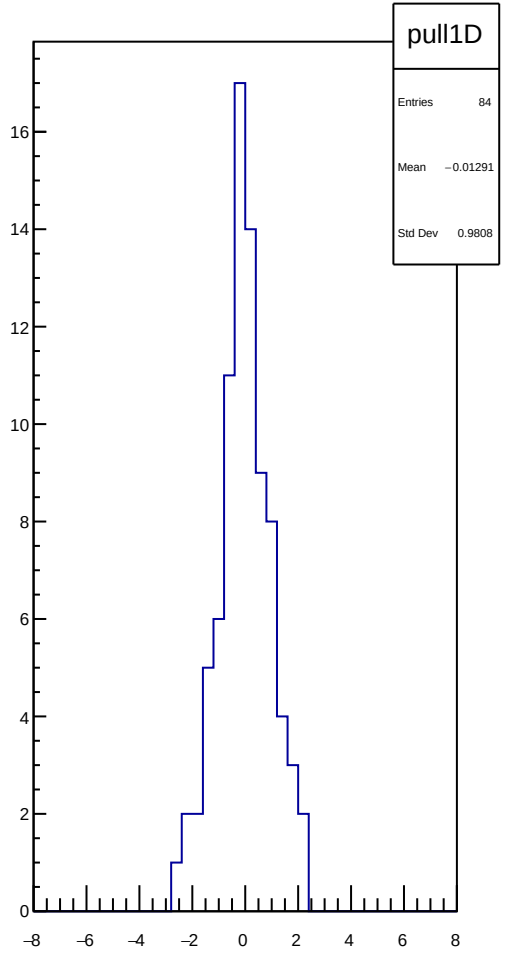

pull1D
Entries 84
Mean −0.002363
Std Dev 1.114

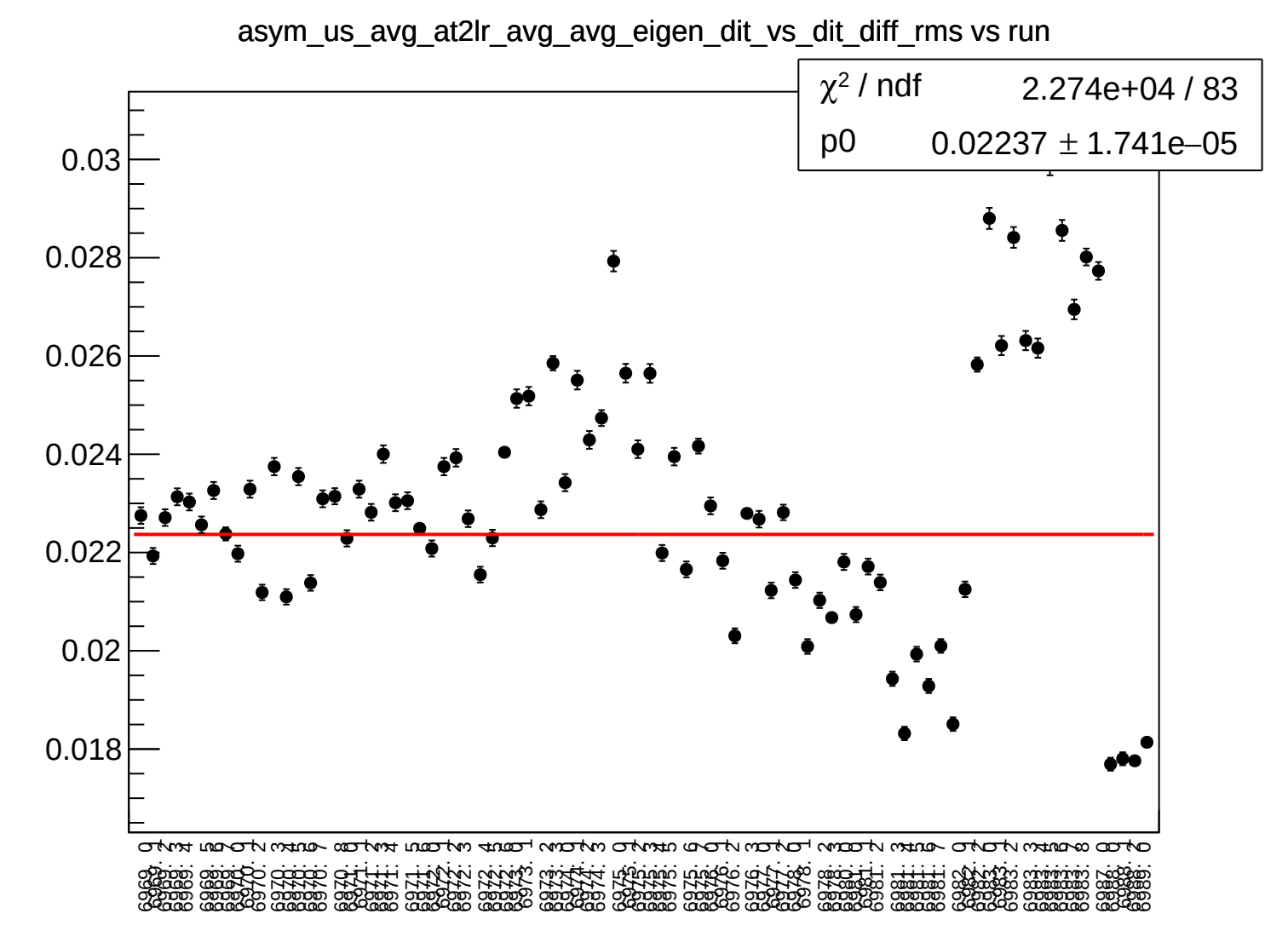

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.778e+04 / 83
p0 934.2 ± 0.7395
2200
2000
1800
1600
1400
1200
1000
800
600

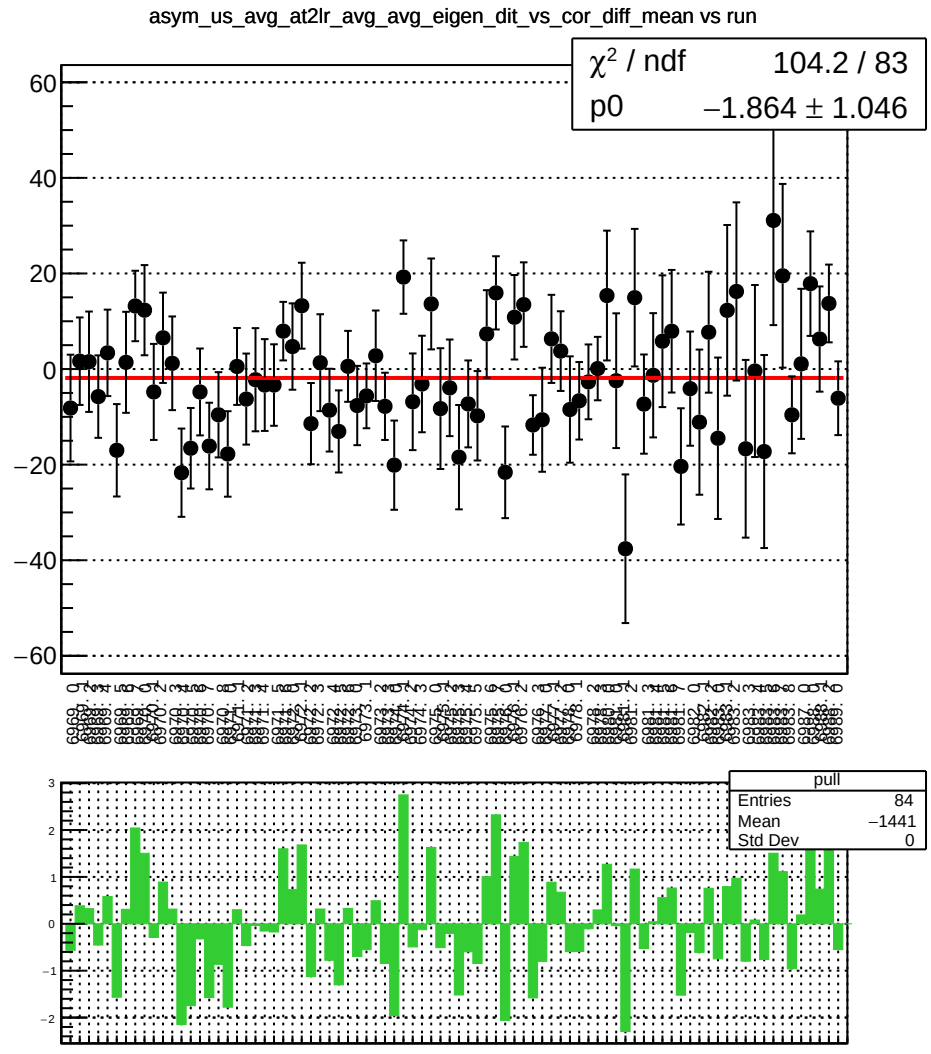

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 83
p0 −1.864 ± 1.046
pull
Entries 84
Mean −1442
Std Dev 0
pull1D
Entries 84
Mean −0.002363
Std Dev 1.114

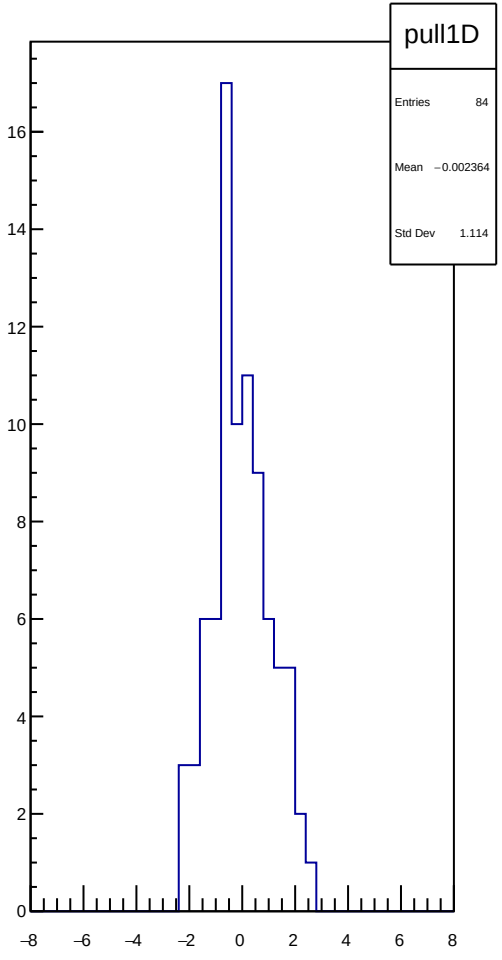

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.778e+04 / 83
p0 934.2 ± 0.7395
2200
2000
1800
1600
1400
1200
1000
800
600

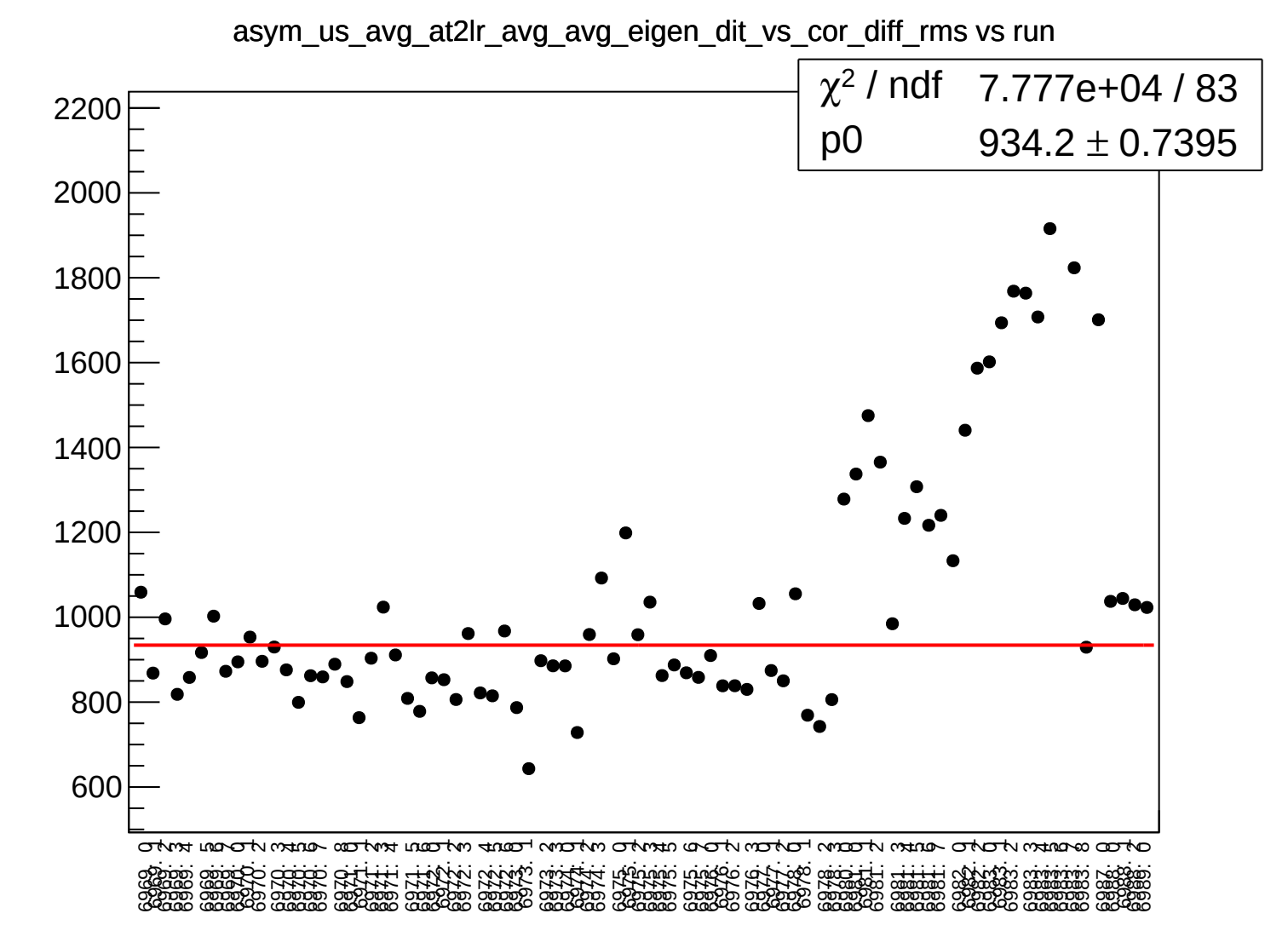

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 80.81 / 83
p0 −2.065e−05 ± 2.462e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean −24.65
Std Dev 0
2
1
0
−1
−2

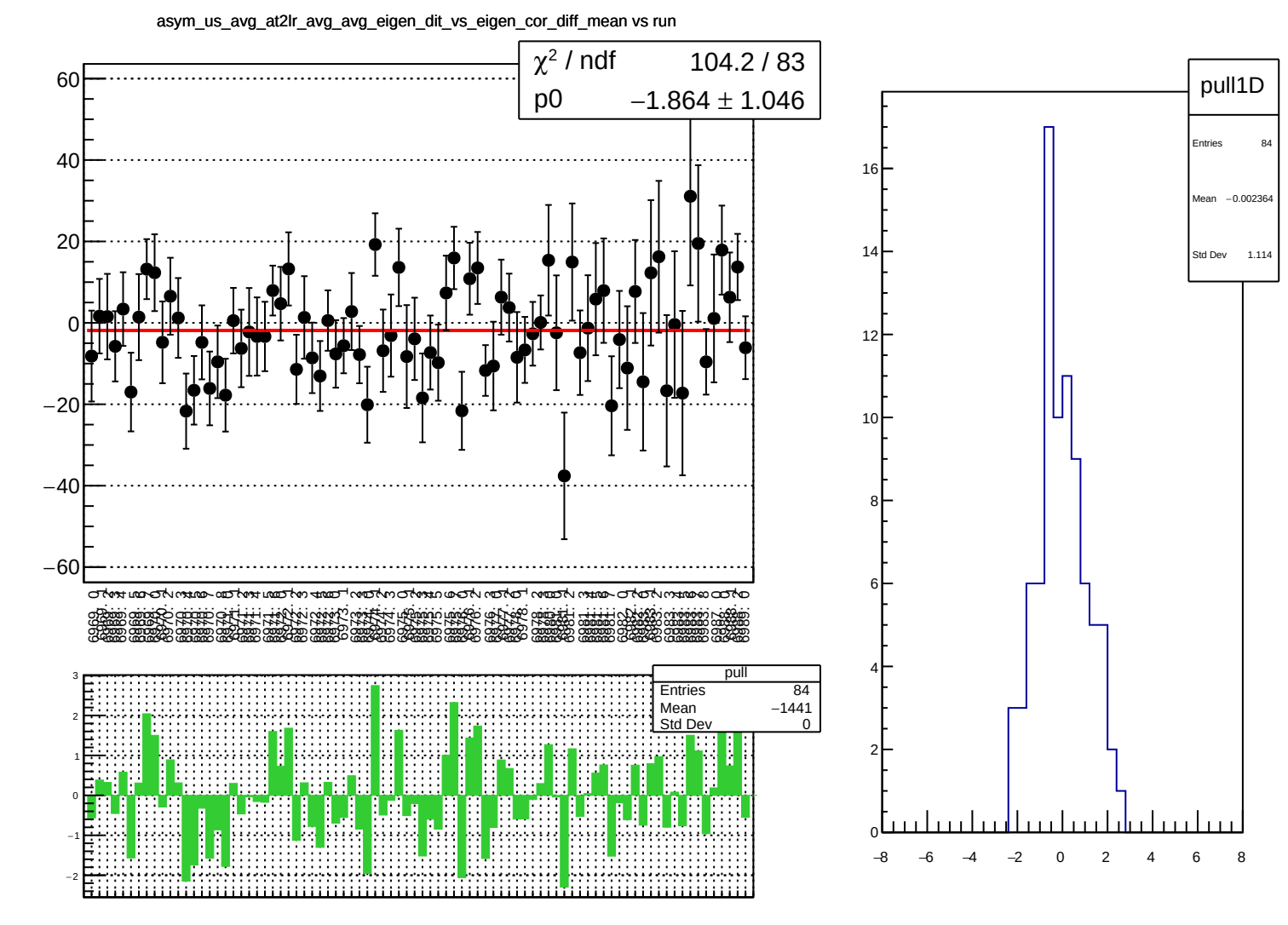

pull1D
Entries 84
Mean −0.01291
Std Dev 0.9808
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

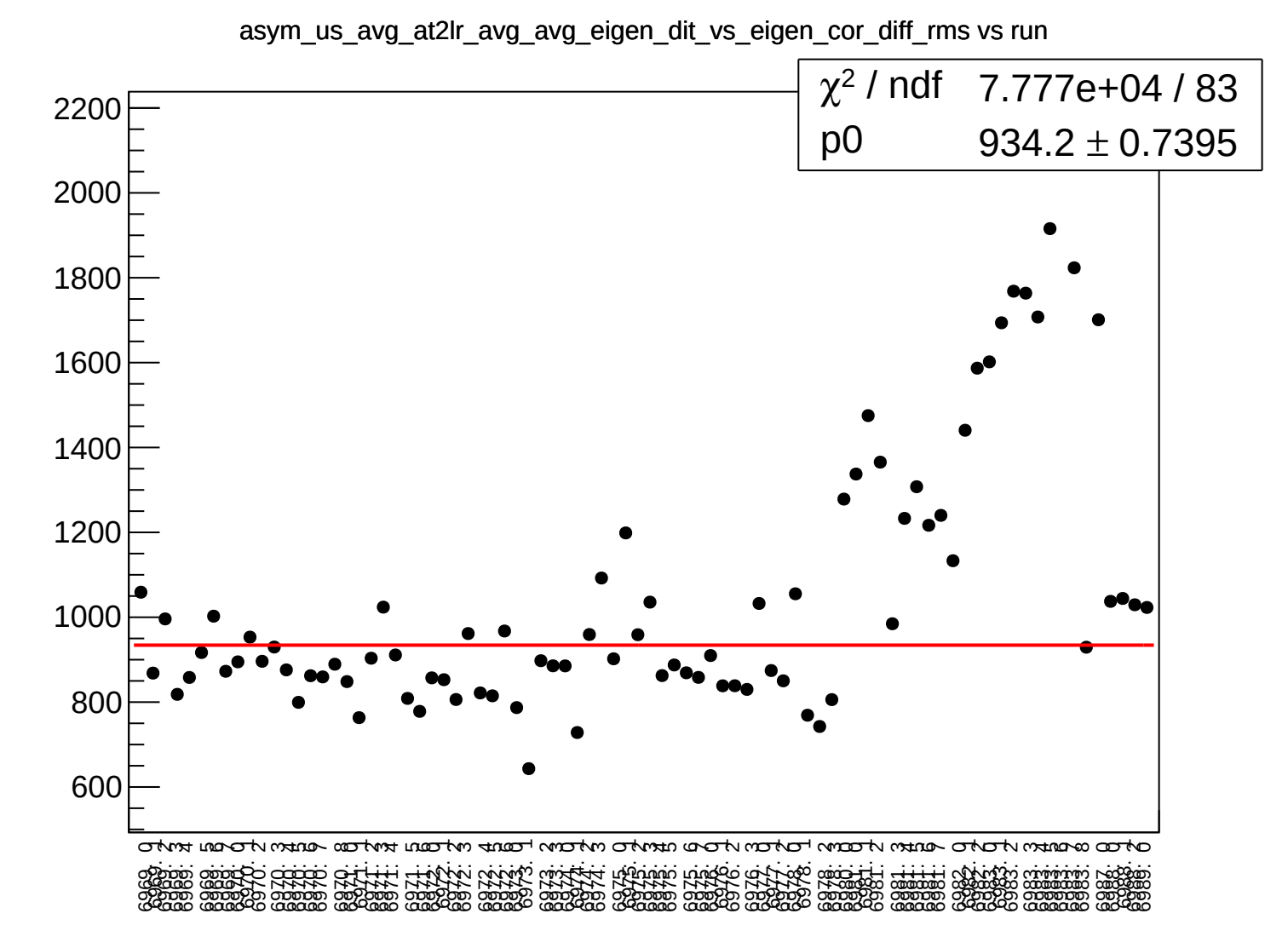

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.274e+04 / 83
p0 0.02237 ± 1.741e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018

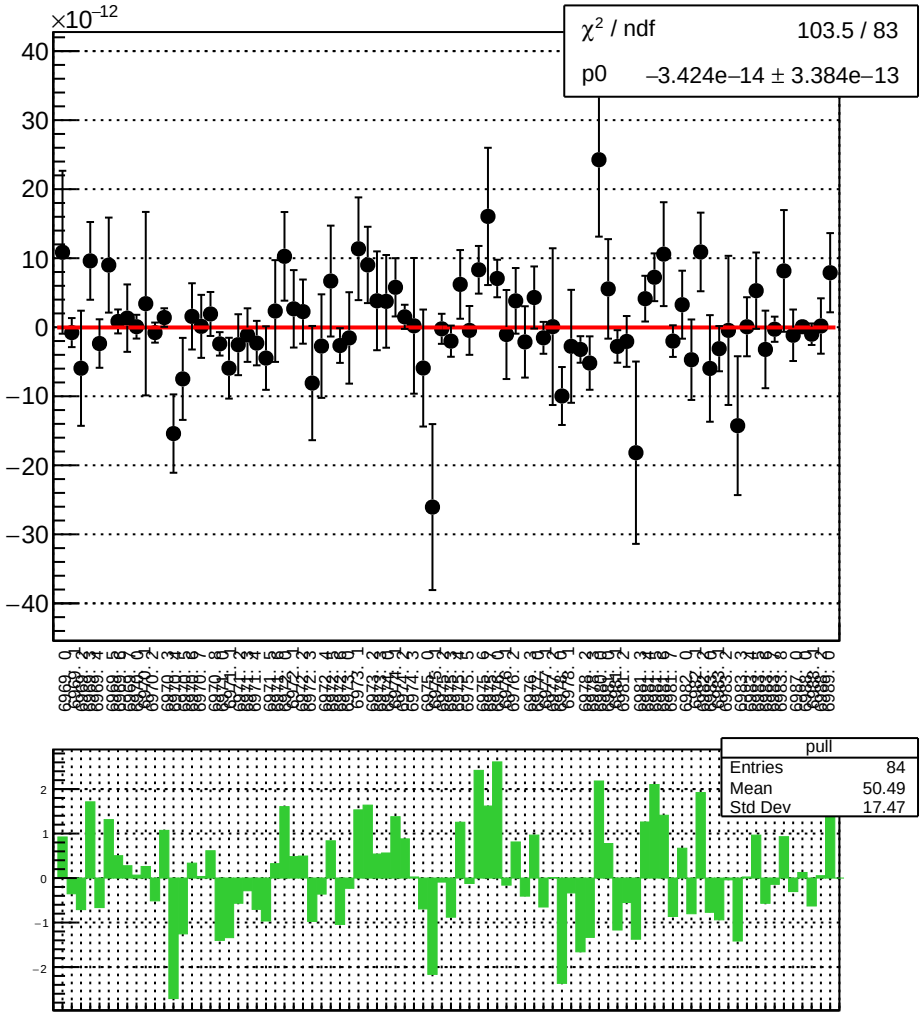

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 83
p0 −1.864 ± 1.046
pull
Entries 84
Mean −1441
Std Dev 0

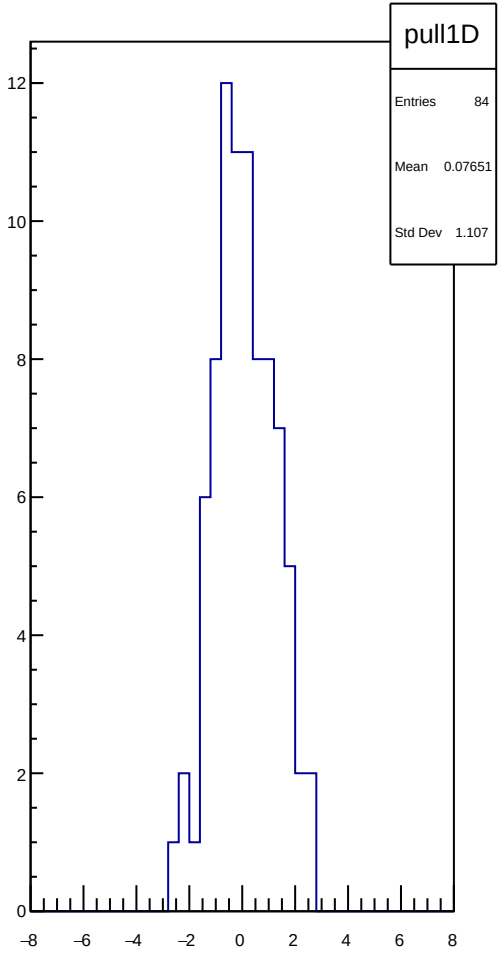

pull1D
Entries 84
Mean −0.002364
Std Dev 1.114

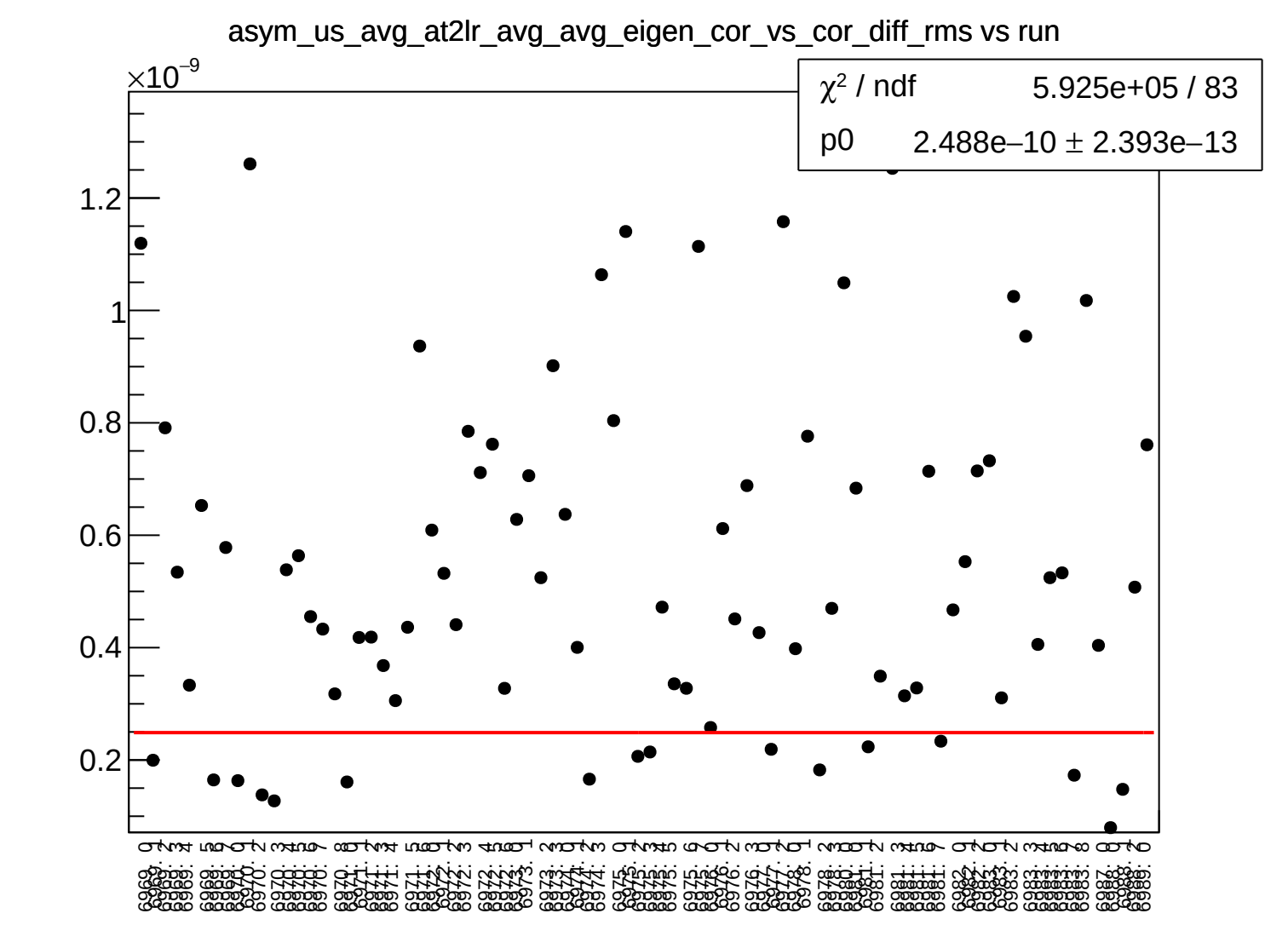

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.777e+04 / 83
p0 934.2 ± 0.7395
2200
2000
1800
1600
1400
1200
1000
800
600

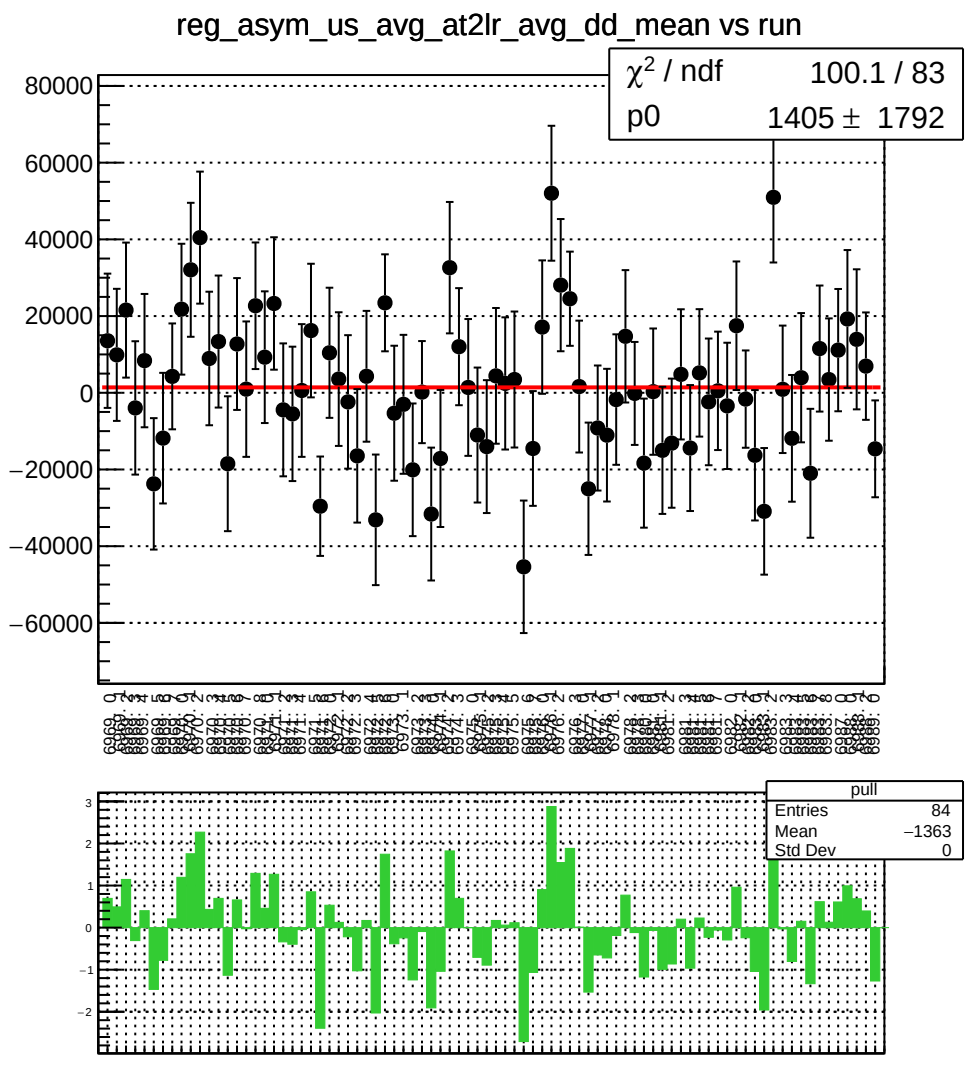

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 83
p0 −1.864 ± 1.046
pull
Entries 84
Mean −1441
Std Dev 0
pull1D
Entries 84
Mean −0.002364
Std Dev 1.114

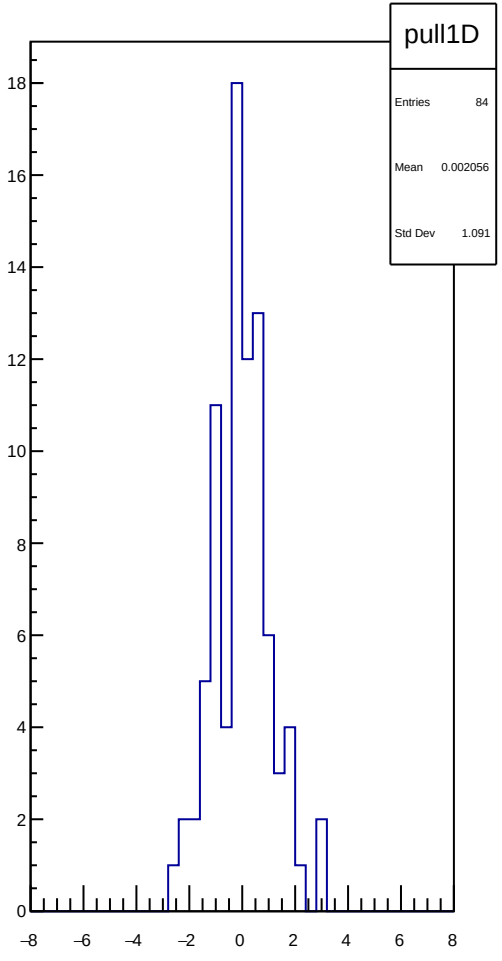

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.777e+04 / 83
p0 934.2 ± 0.7395
2200
2000
1800
1600
1400
1200
1000
800
600

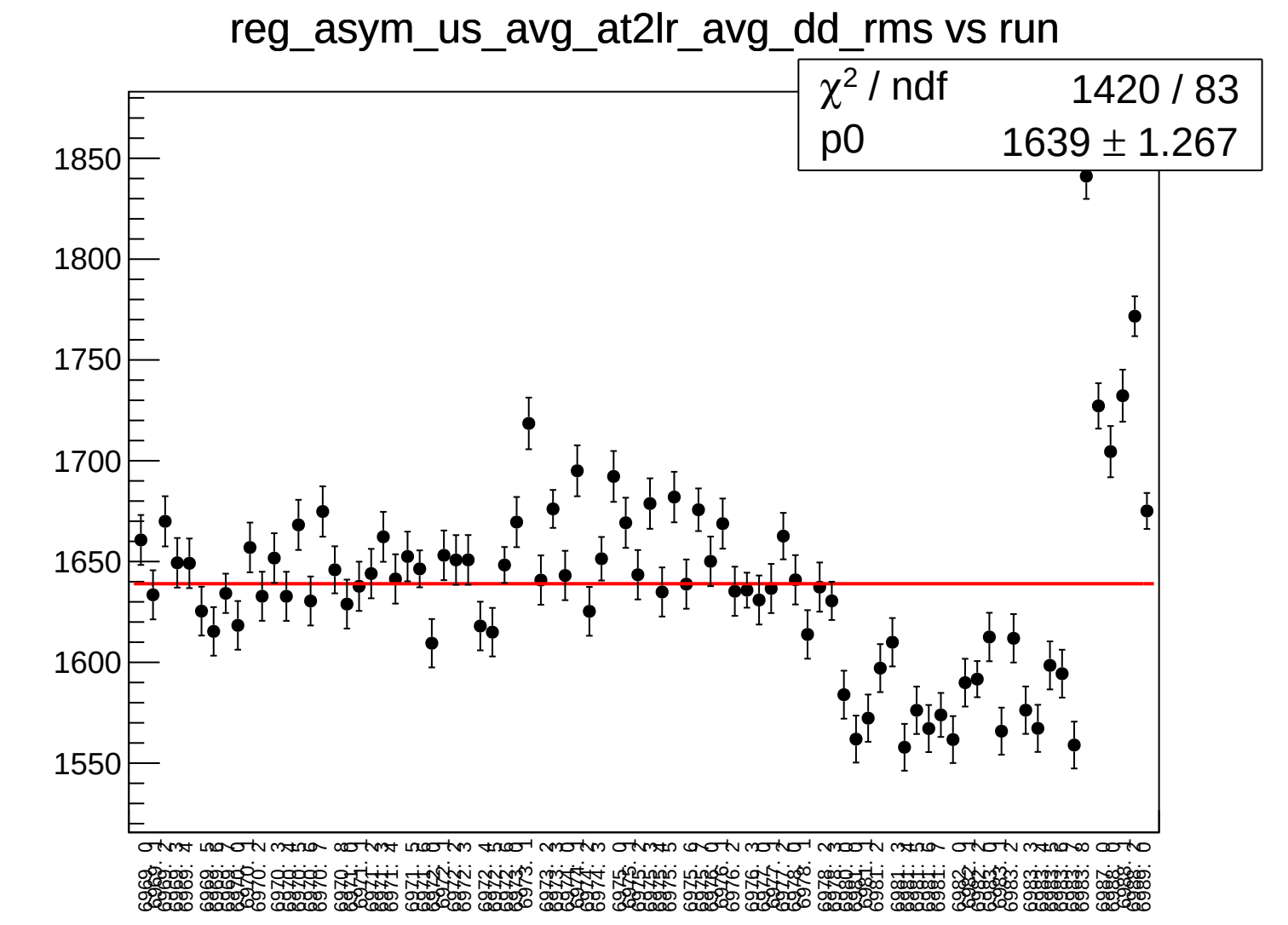

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.5 / 83
p0 −3.424e−14 ± 3.384e−13
pull
Entries 84
Mean 50.49
Std Dev 17.47

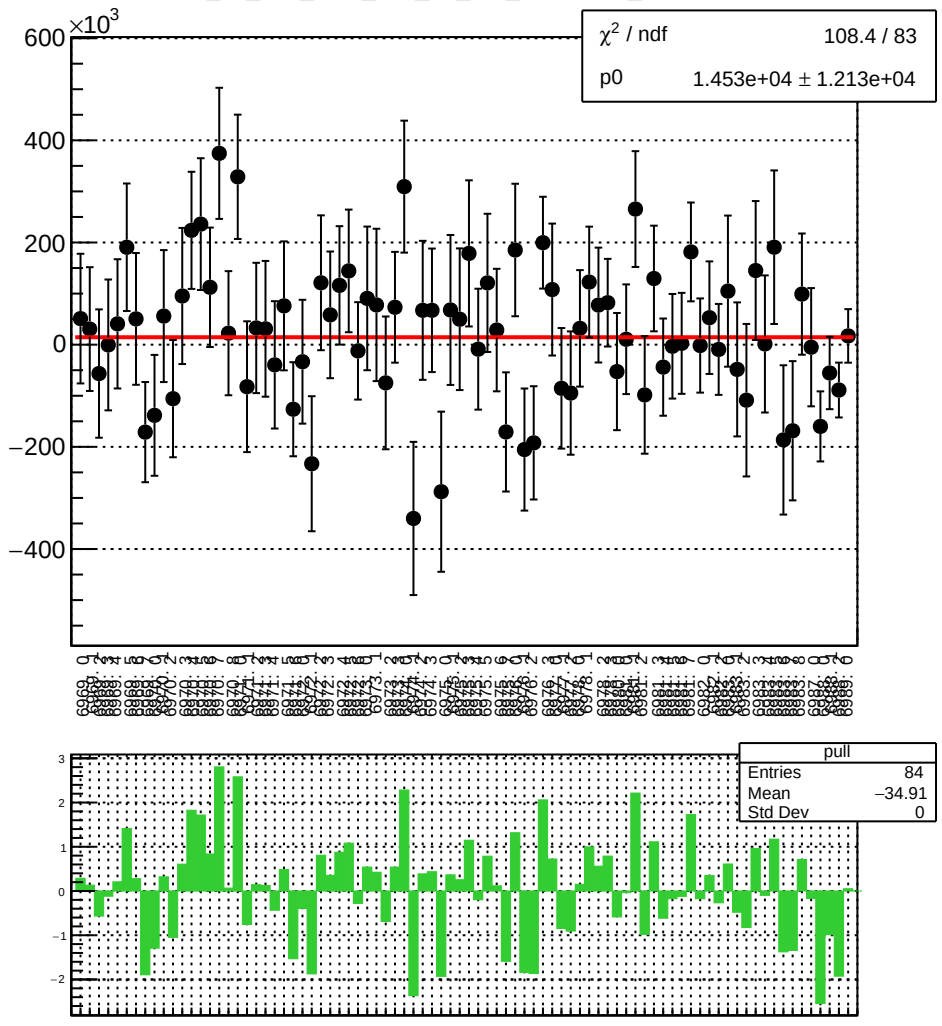

pull1D
Entries 84
Mean 0.07651
Std Dev 1.107

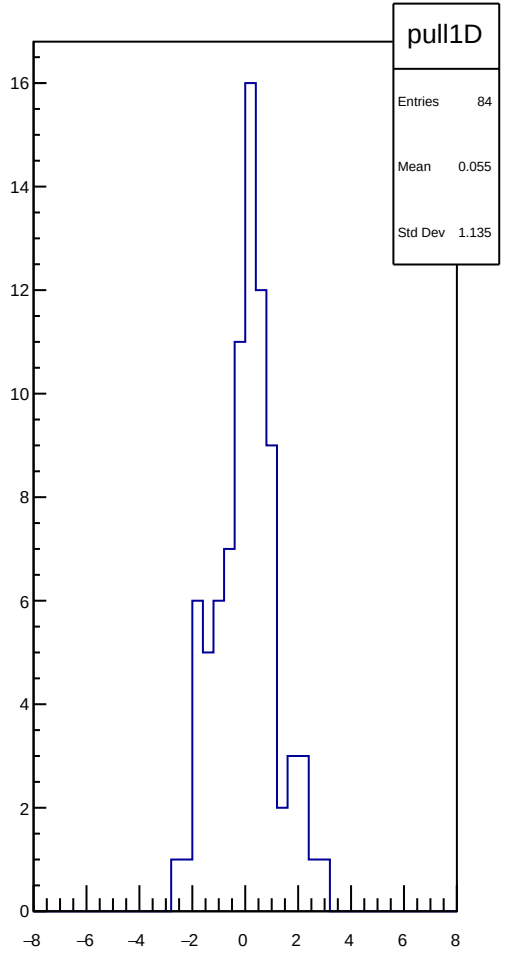

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.925e+05 / 83
p0 2.488e−10 ± 2.393e−13
1.2
1
0.8
0.6
0.4
0.2

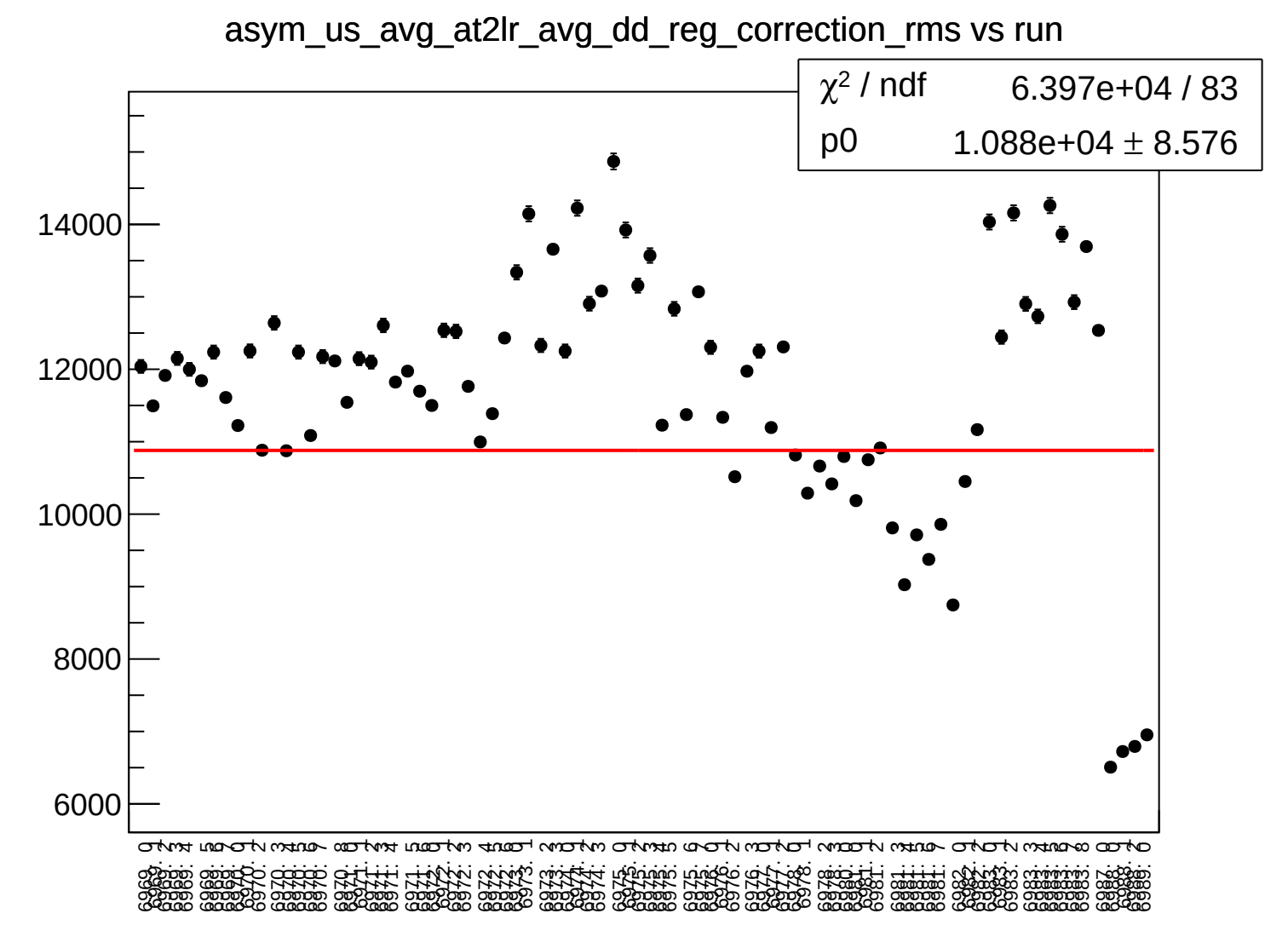

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 100.1 / 83
p0 1405 ± 1792
pull
Entries 84
Mean −1363
Std Dev 0

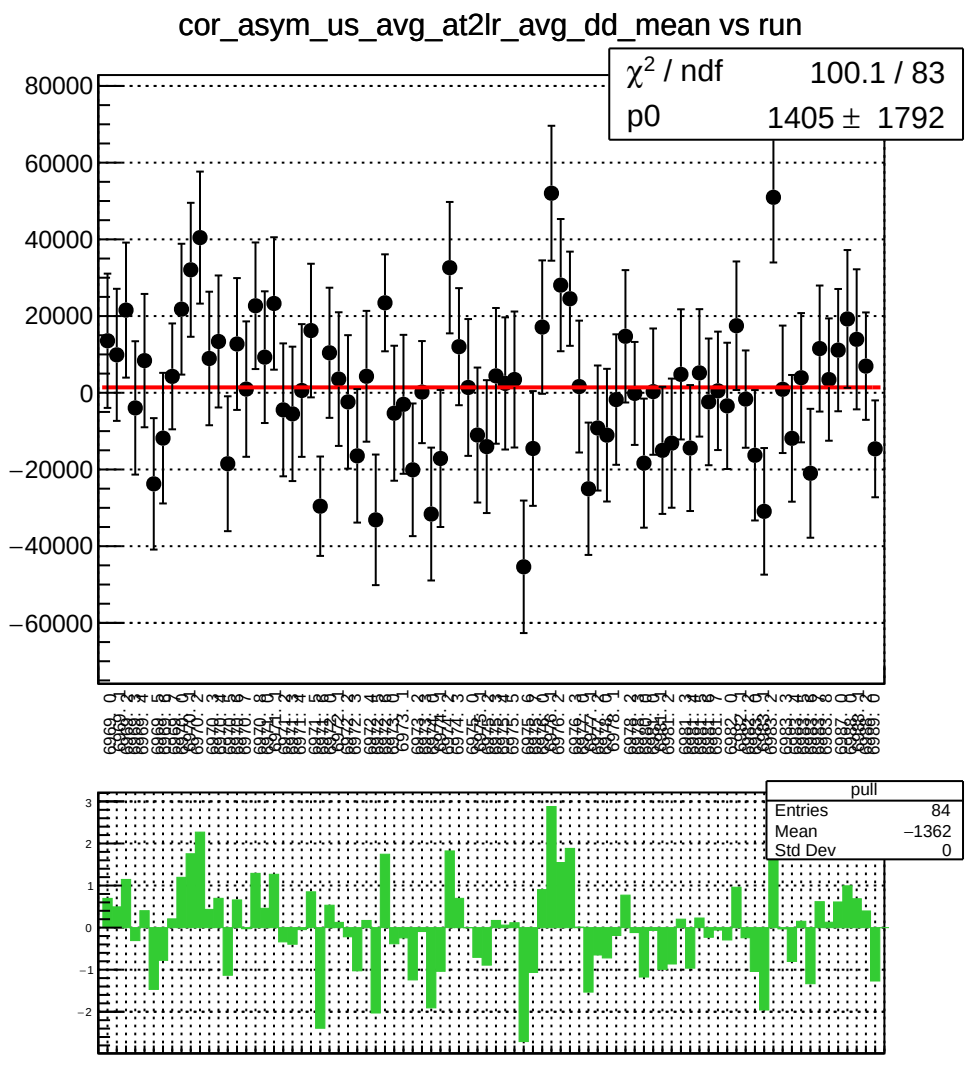

pull1D
Entries 84
Mean 0.002056
Std Dev 1.091

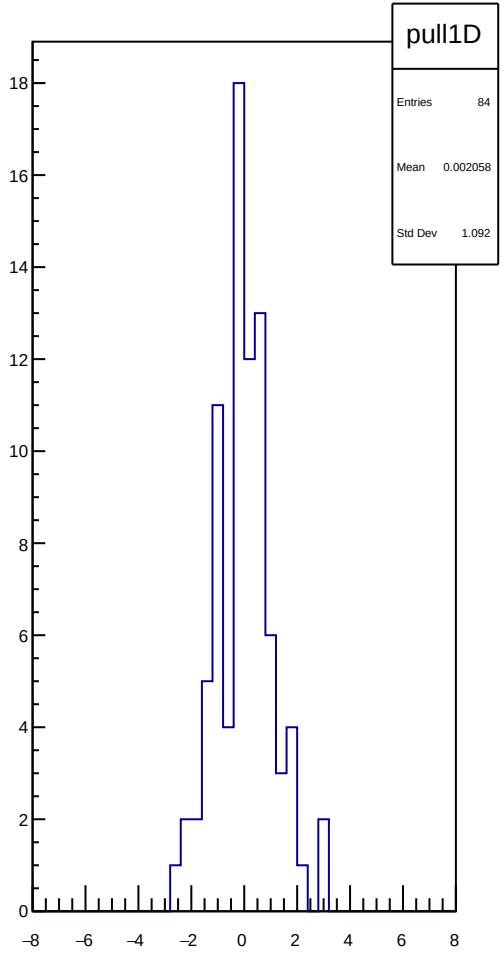

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1420 / 83
p0 1639 ± 1.267
1850
1800
1750
1700
1650
1600
1550

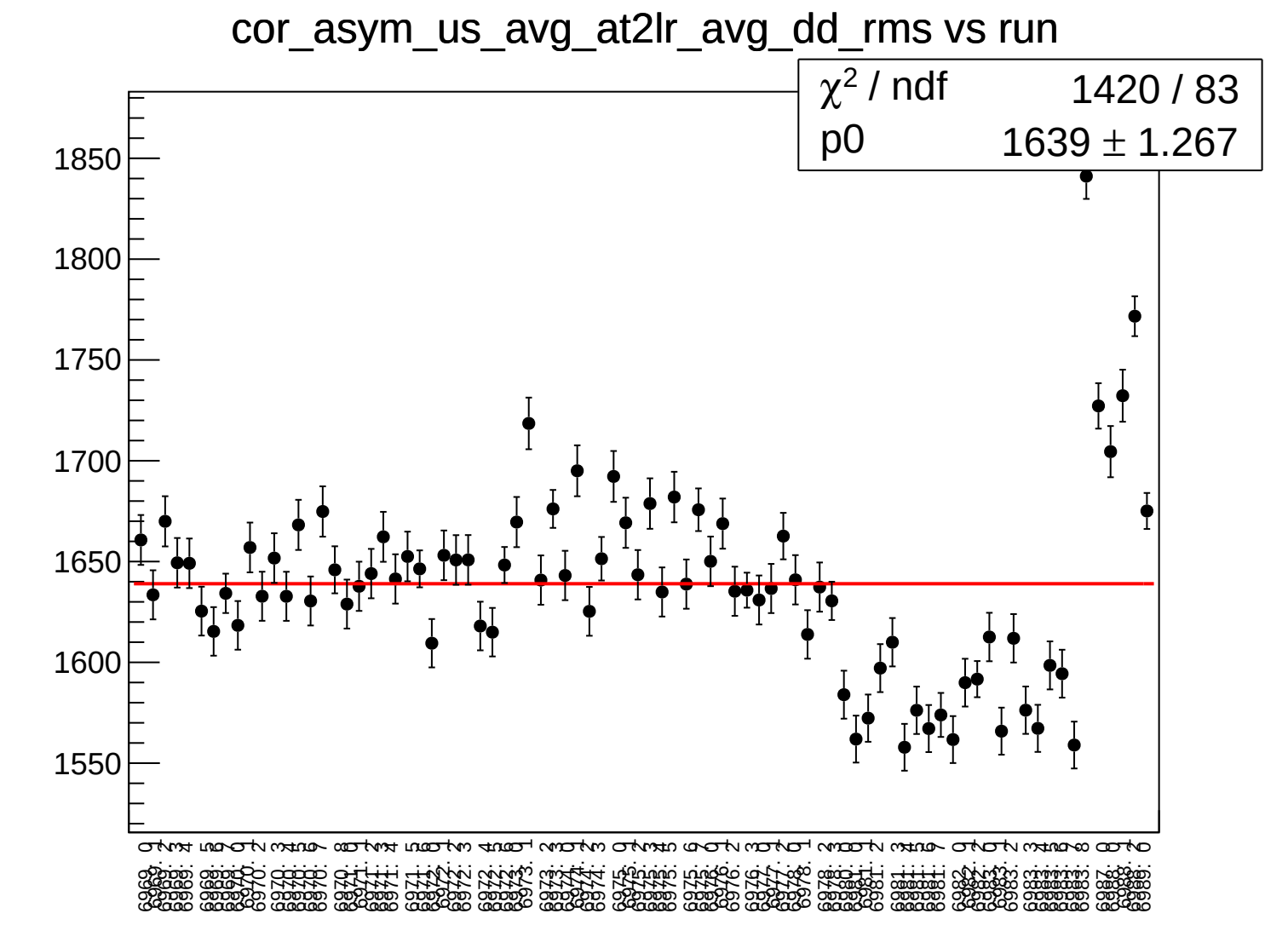

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 108.4 / 83
p0 1.453e+04 ± 1.213e+04
pull
Entries 84
Mean −34.91
Std Dev 0
3
2
1
0
−1
−2

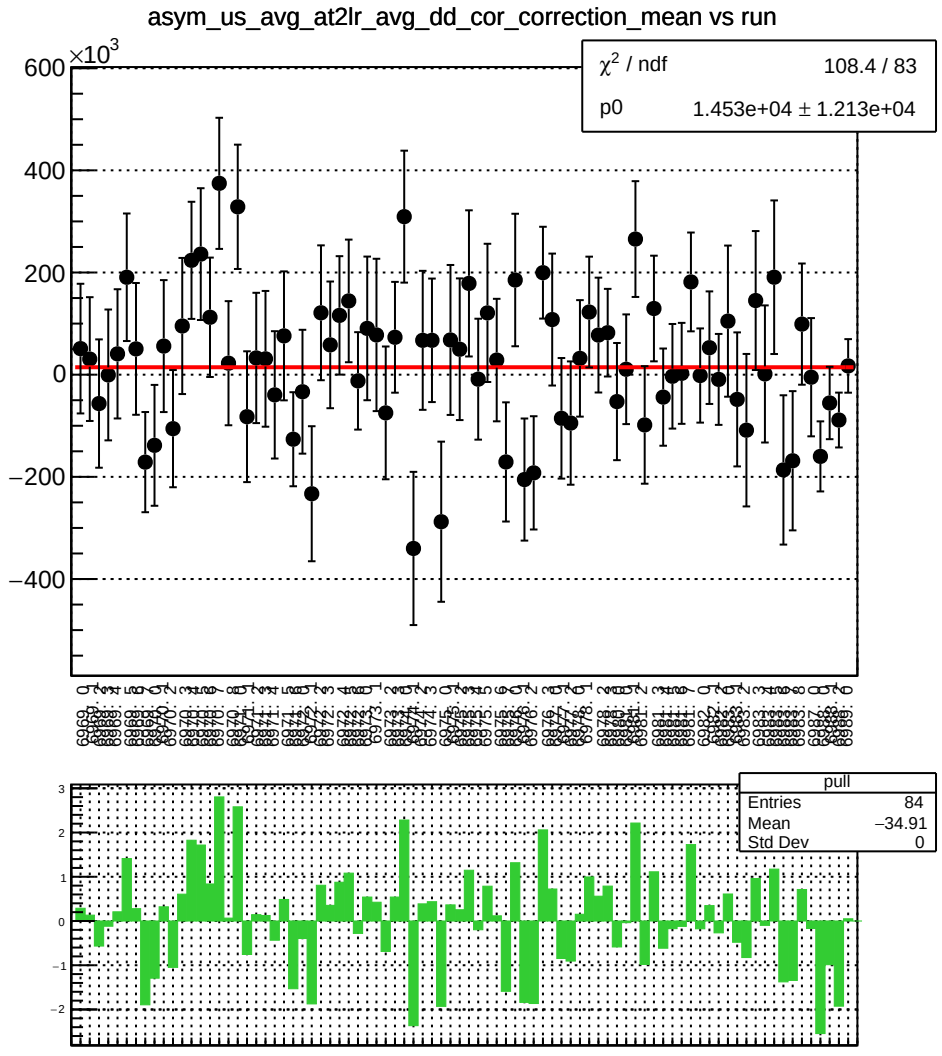

pull1D
Entries 84
Mean 0.055
Std Dev 1.135
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

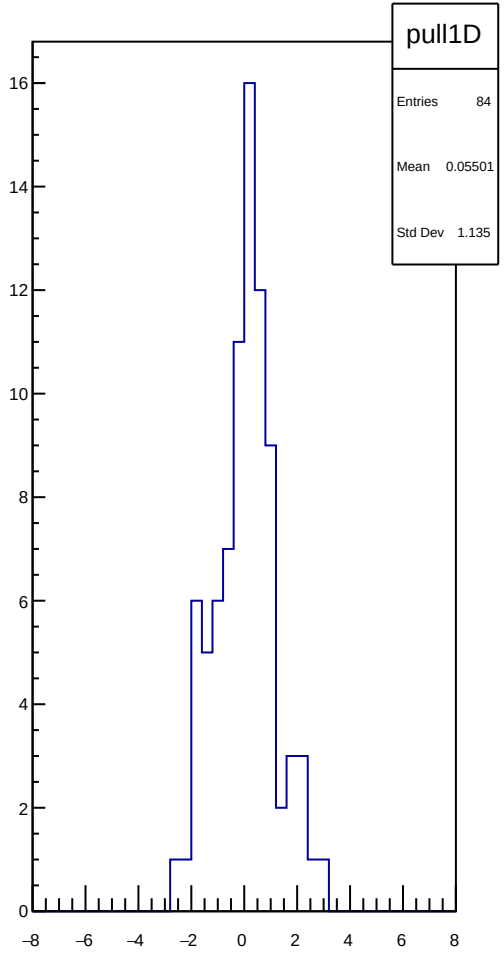

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 6.397e+04 / 83
p0 1.088e+04 ± 8.576
14000
12000
10000
8000
6000

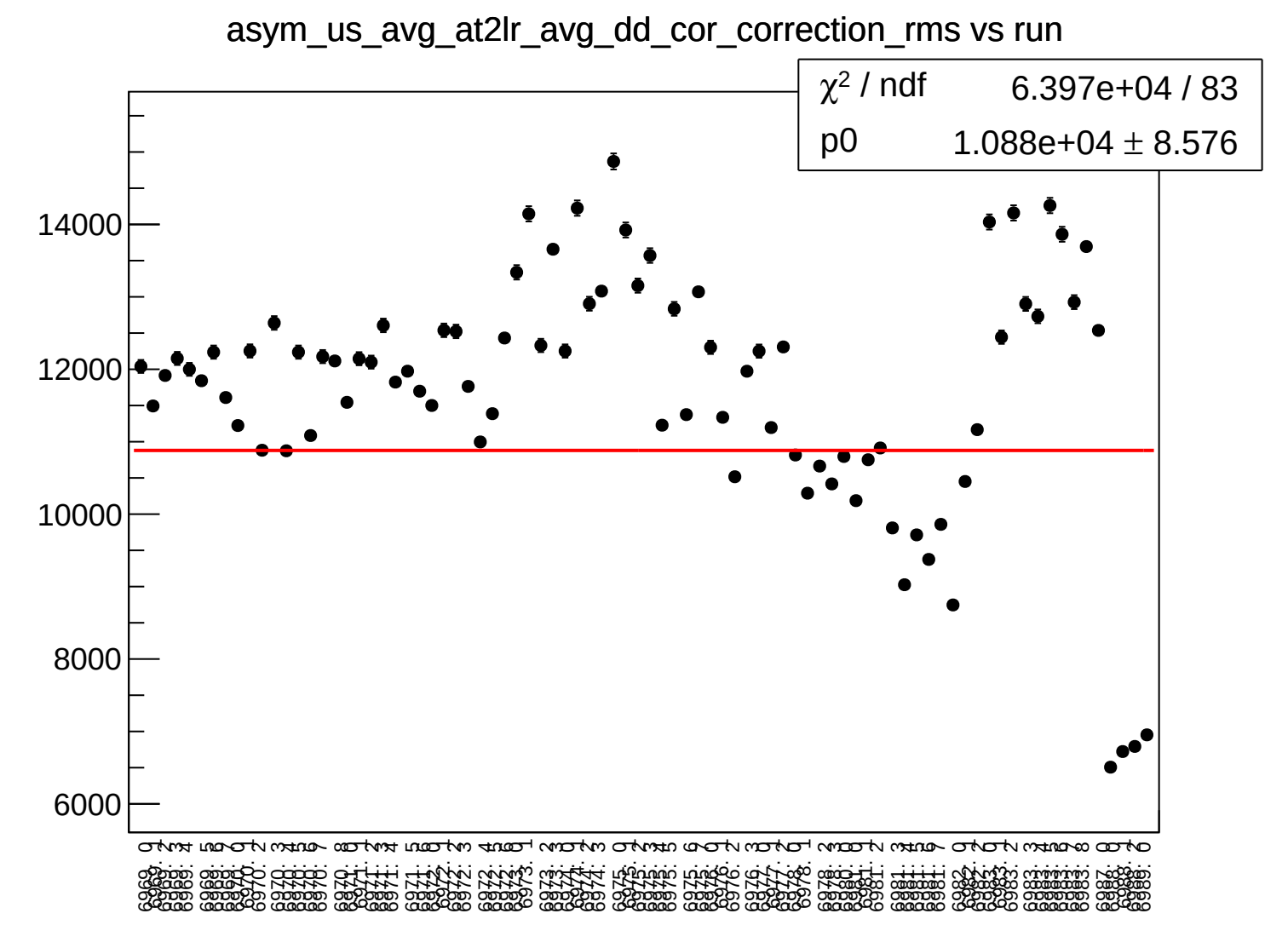

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 100.1 / 83
p0 1405 ± 1792
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −1362
Std Dev 0
3
2
1
0
−1
−2

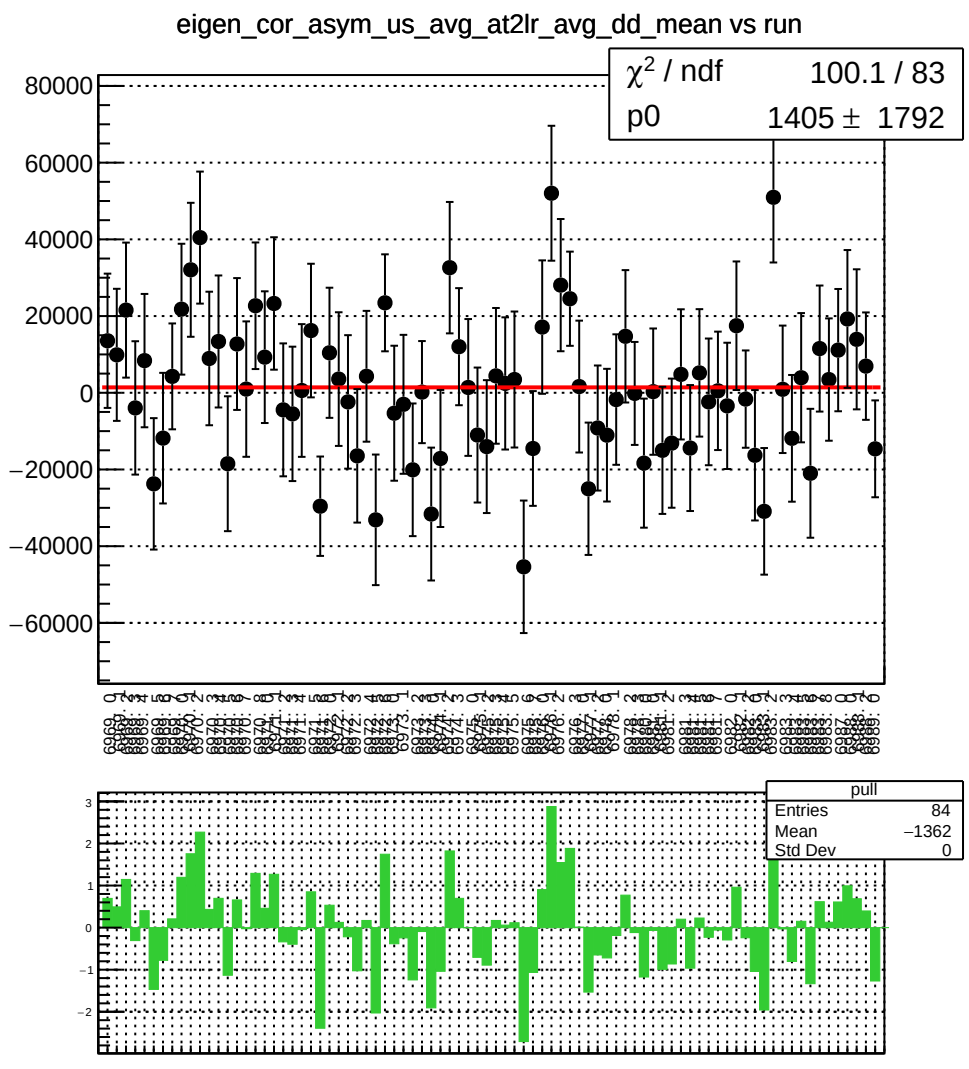

pull1D
Entries 84
Mean 0.002058
Std Dev 1.092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

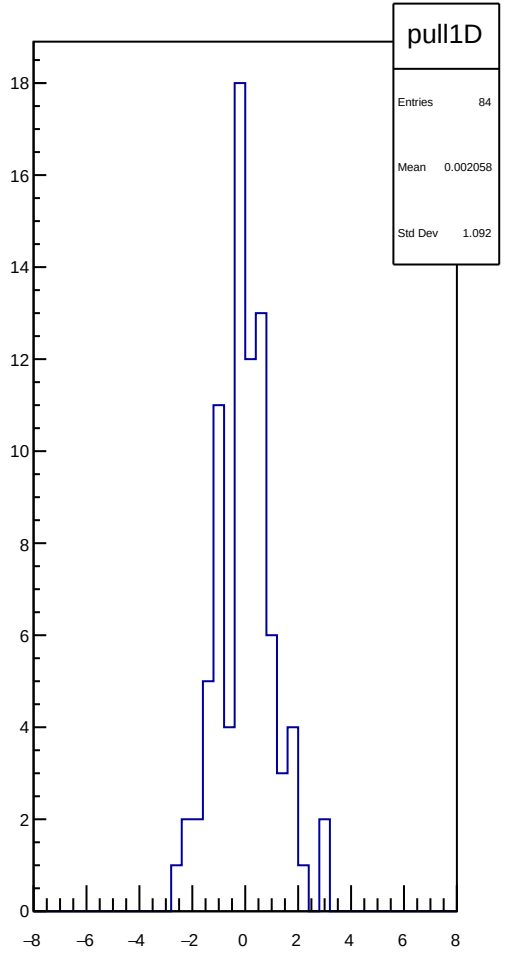

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1420 / 83
p0 1639 ± 1.267
1850
1800
1750
1700
1650
1600
1550

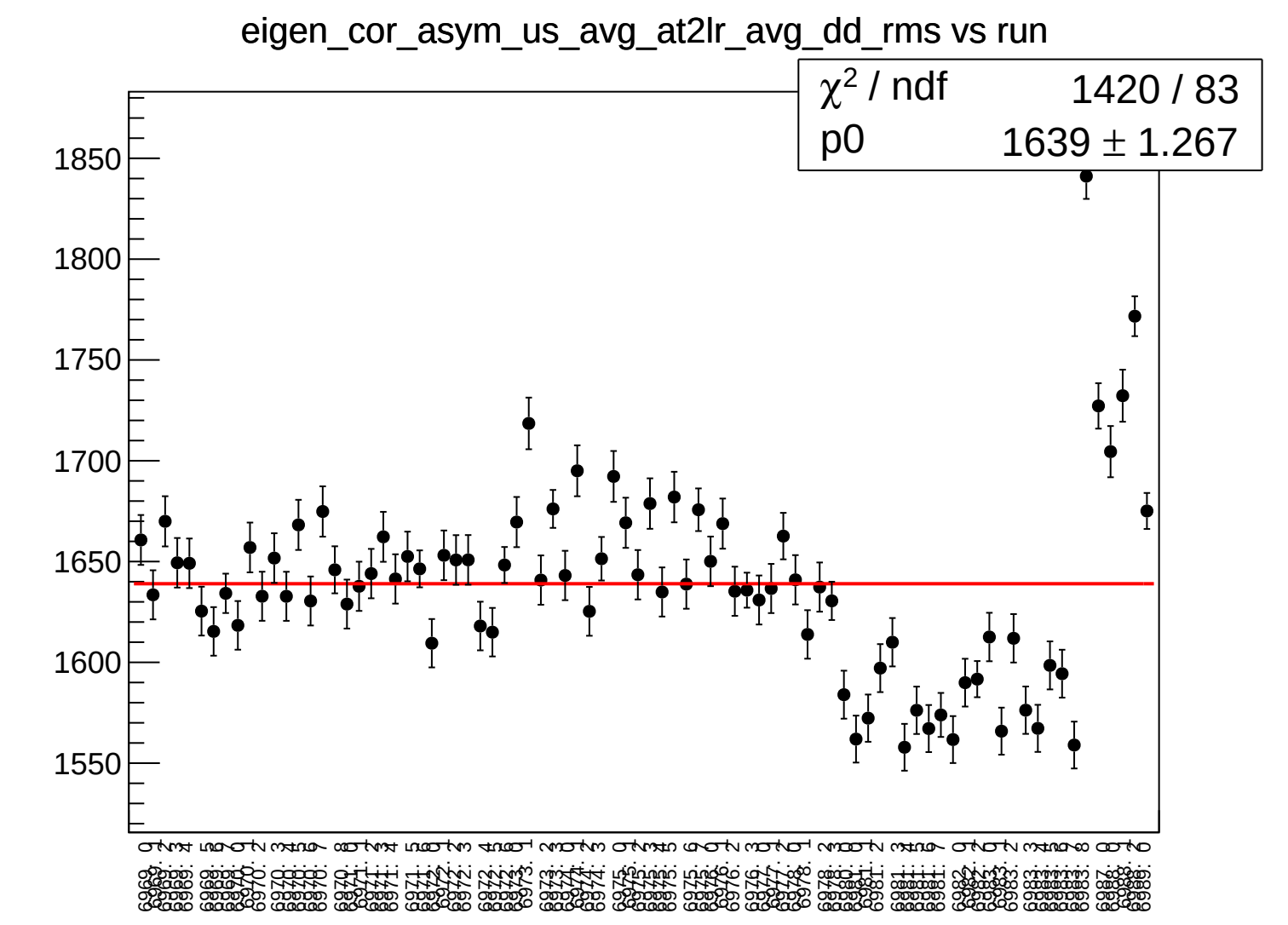

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 108.4 / 83
p0 1.453e+04 ± 1.213e+04
pull
Entries 84
Mean −34.91
Std Dev 0
3
2
1
0
−1
−2

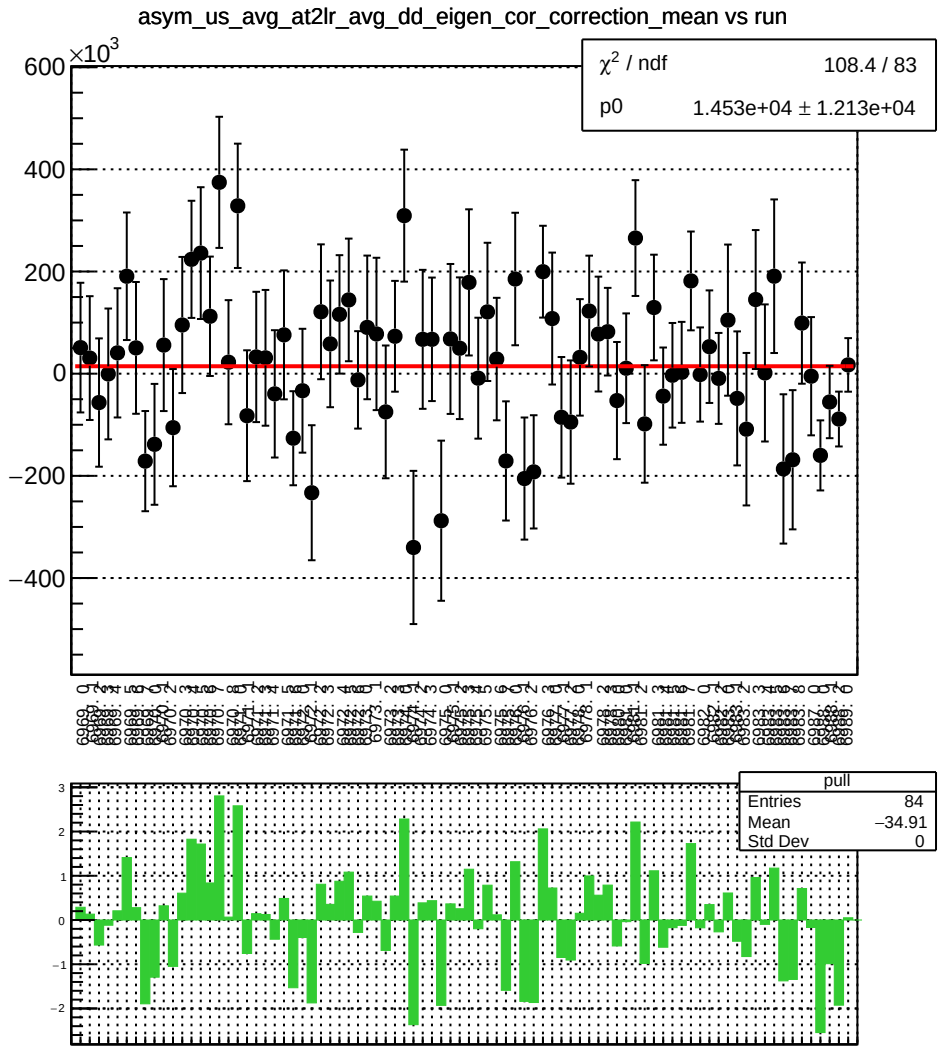

pull1D
Entries 84
Mean 0.05501
Std Dev 1.135
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

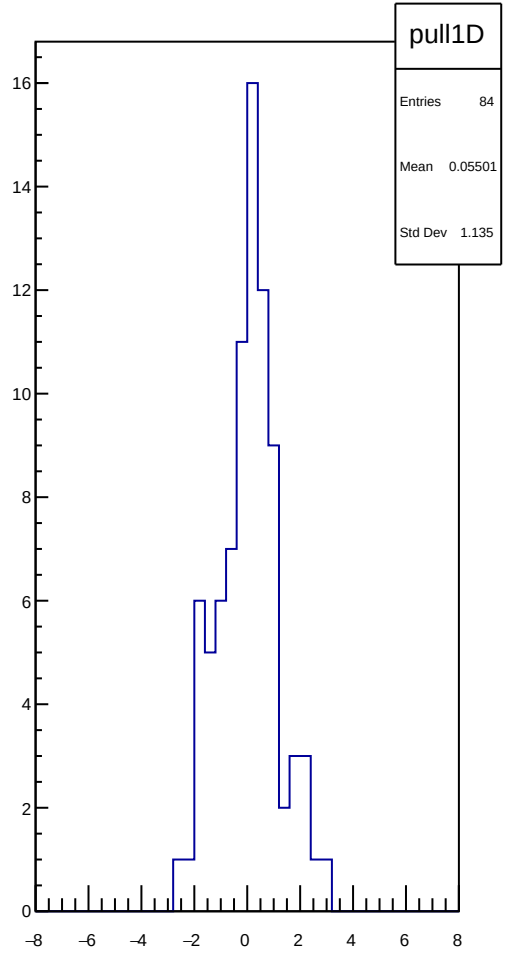

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 6.397e+04 / 83
p0 1.088e+04 ± 8.576
14000
12000
10000
8000
6000

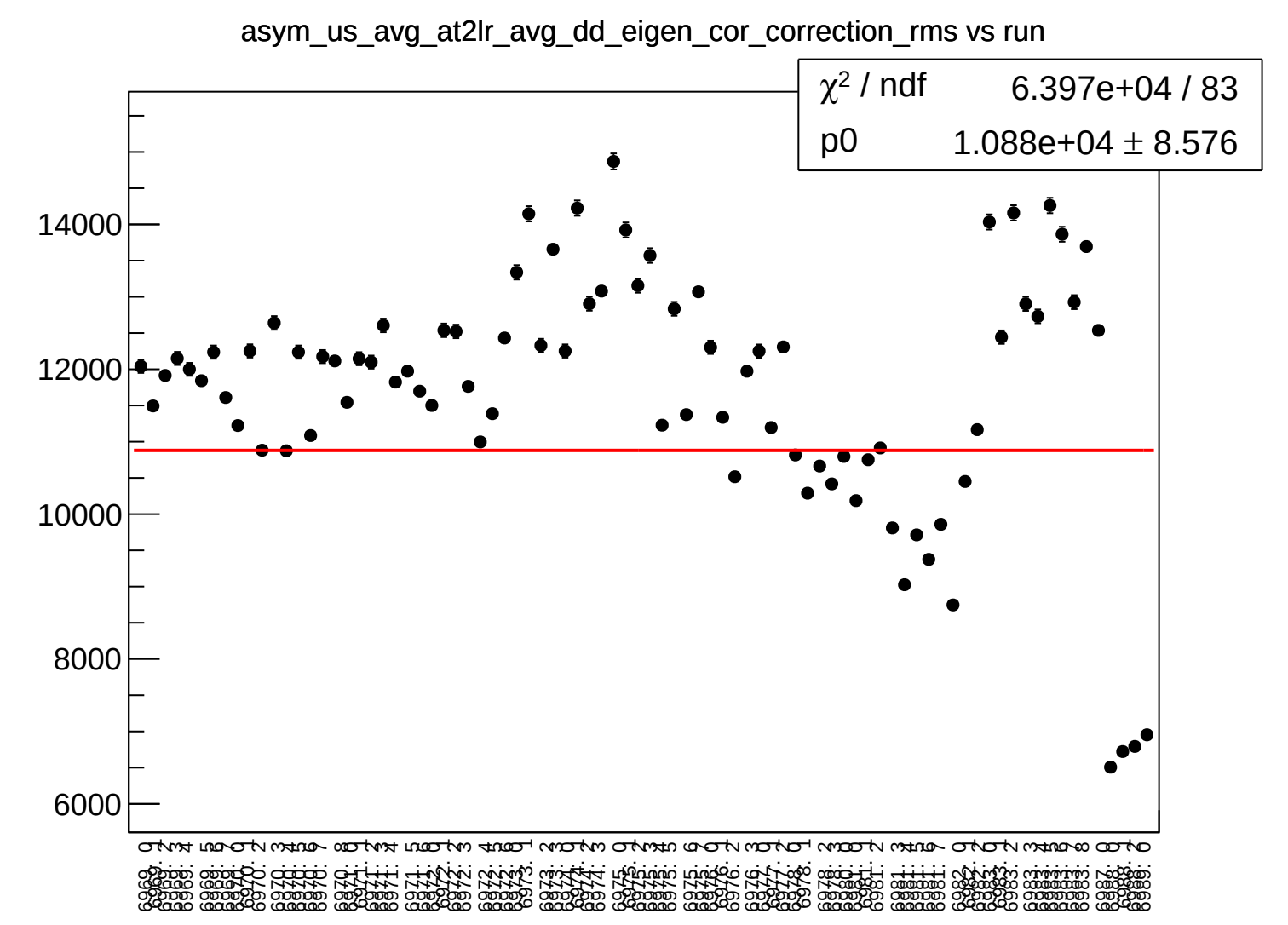

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 100.1 / 83
p0 1405 ± 1792
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −1362
Std Dev 0
3
2
1
0
−1
−2

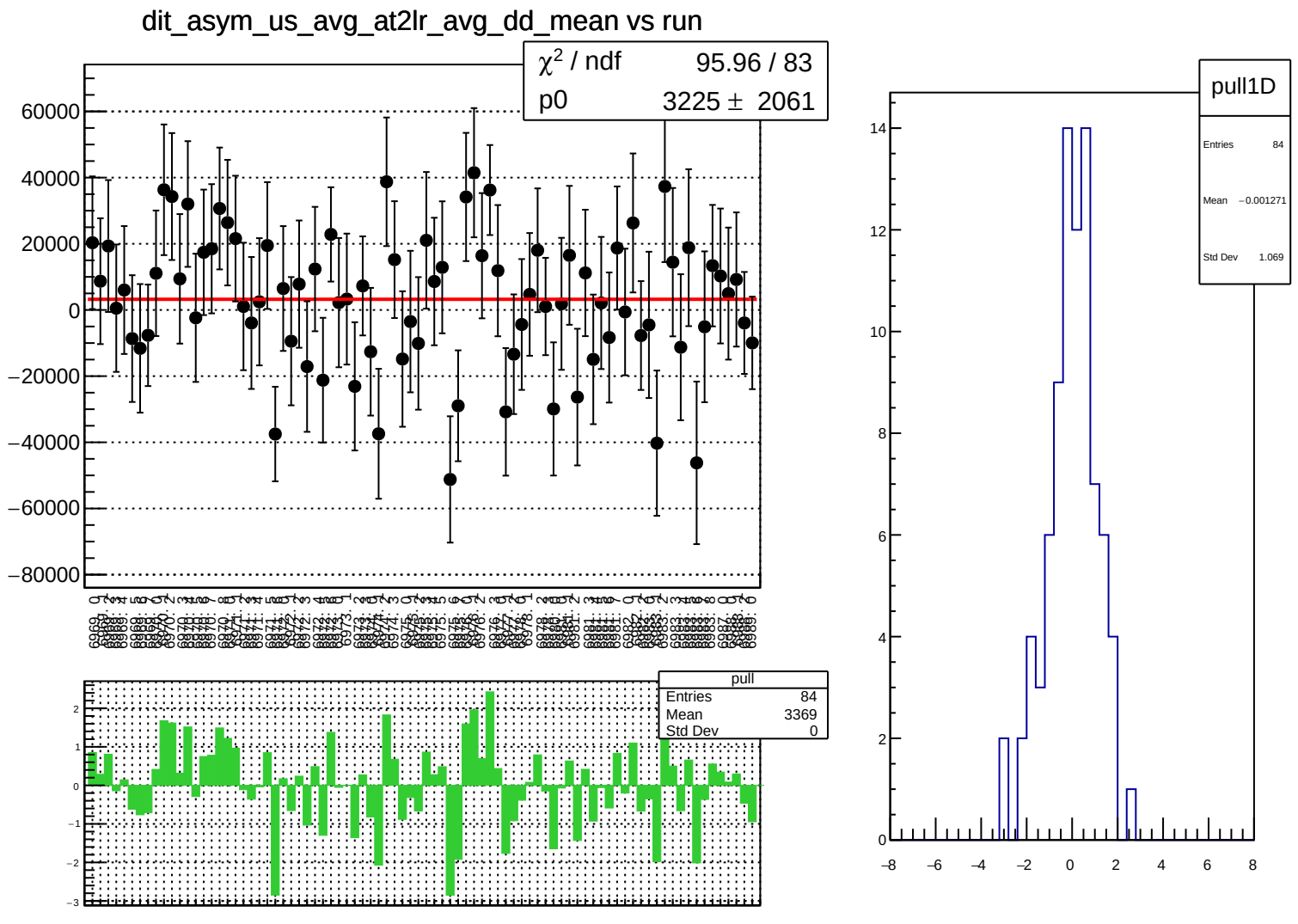

pull1D
Entries 84
Mean 0.002058
Std Dev 1.092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

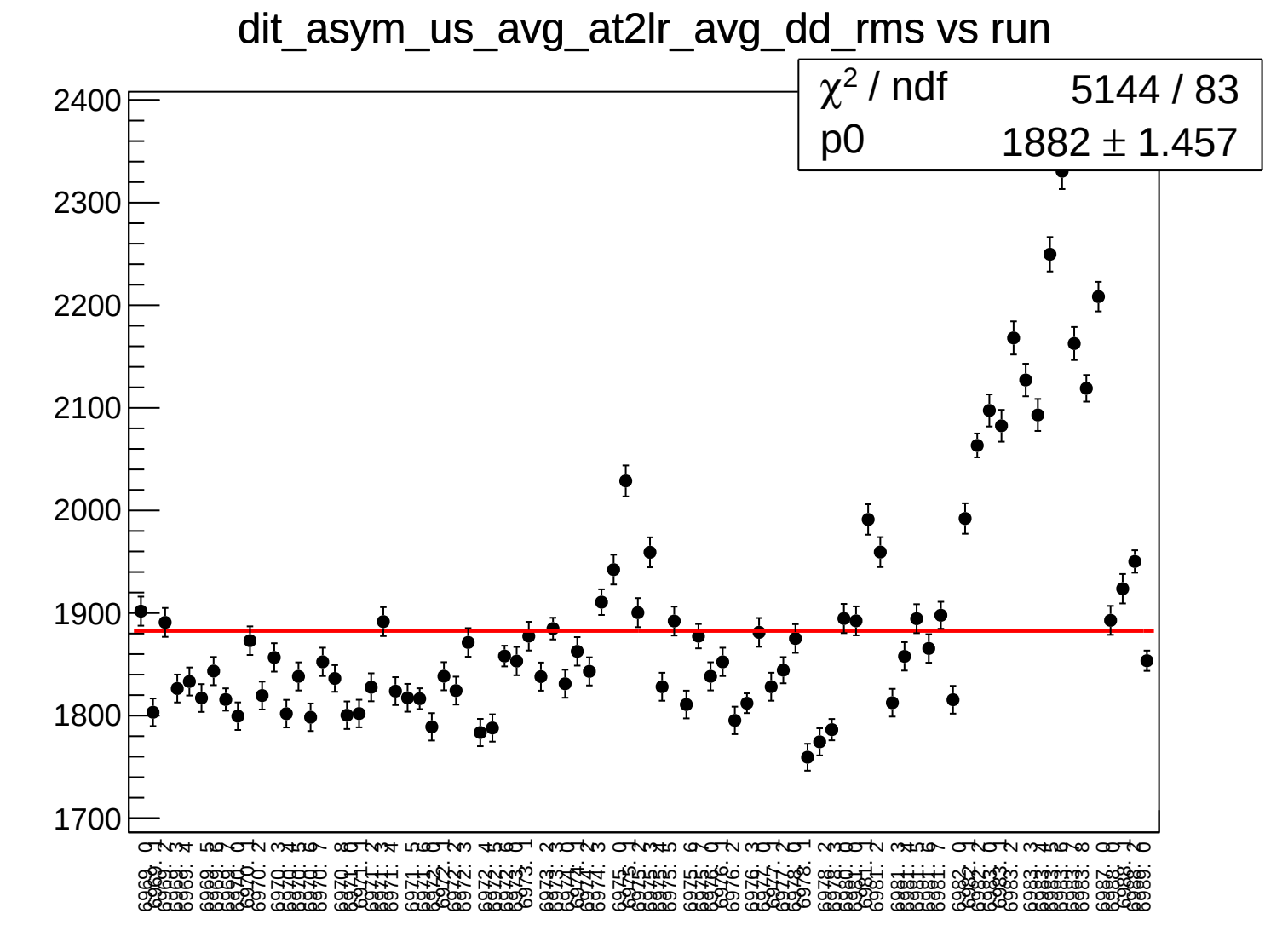

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1420 / 83
p0 1639 ± 1.267
1850
1800
1750
1700
1650
1600
1550

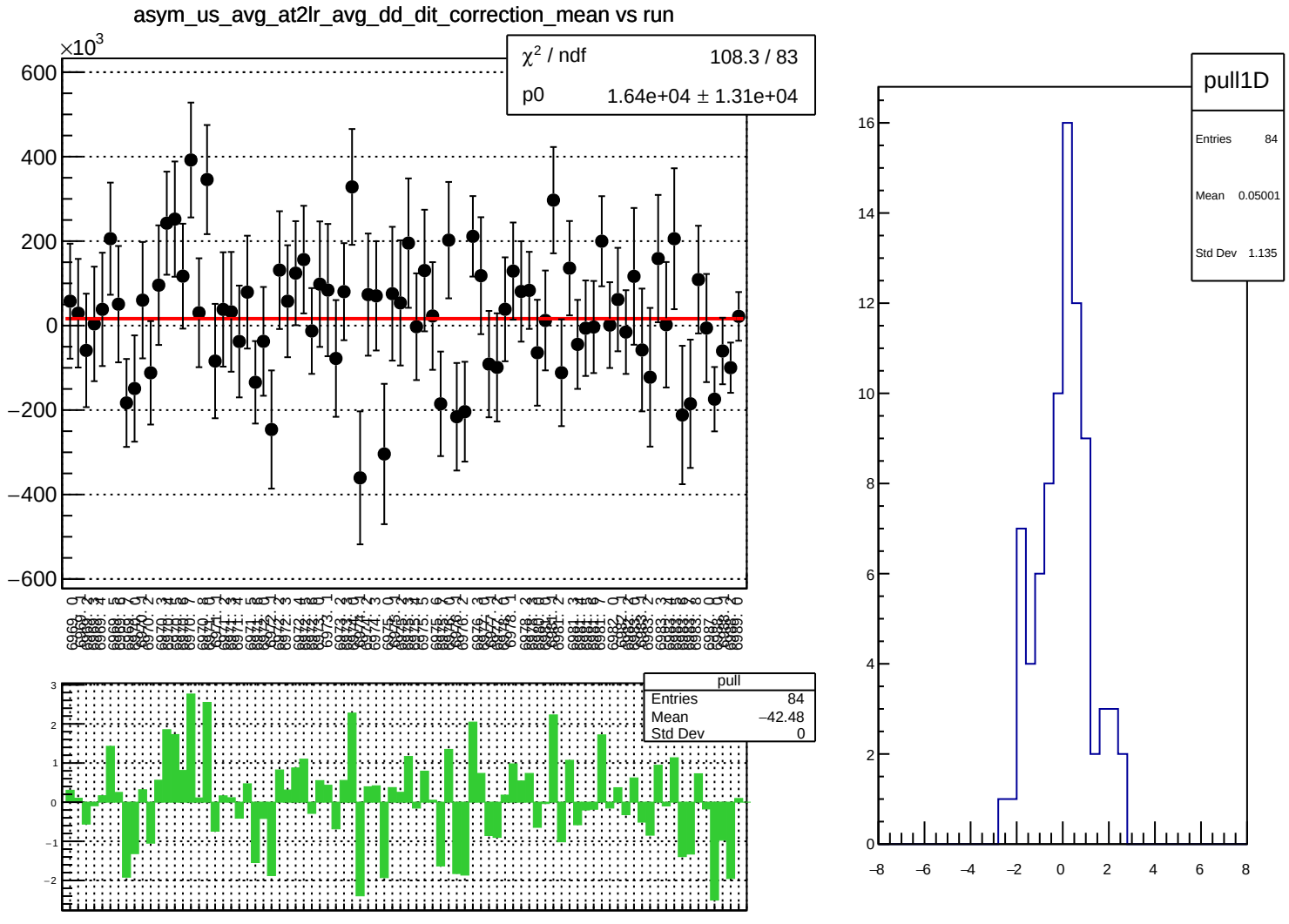

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 108.4 / 83
p0 1.453e+04 ± 1.213e+04
pull
Entries 84
Mean −34.91
Std Dev 0
3
2
1
0
−1
−2

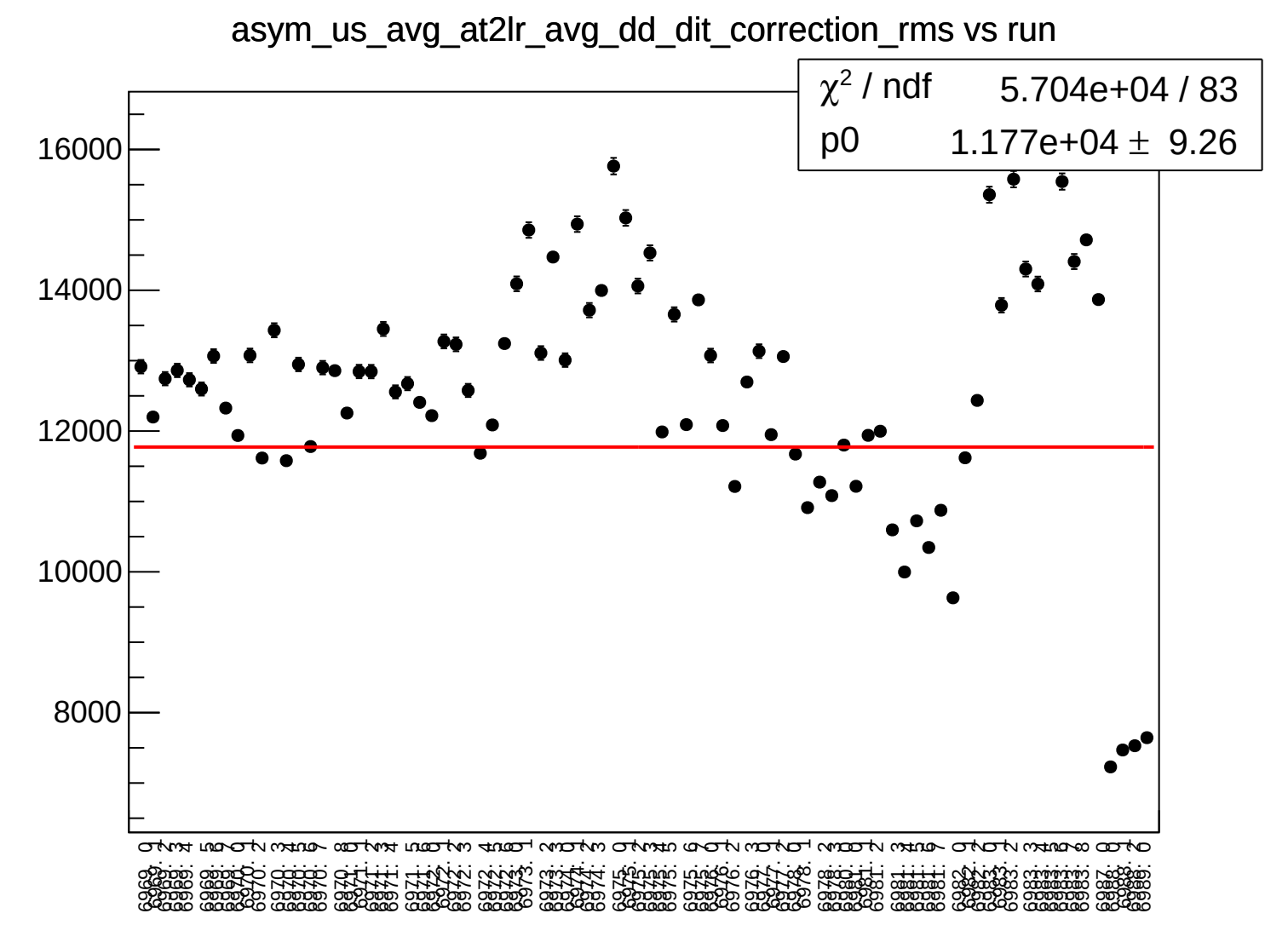

pull1D
Entries 84
Mean 0.05501
Std Dev 1.135
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

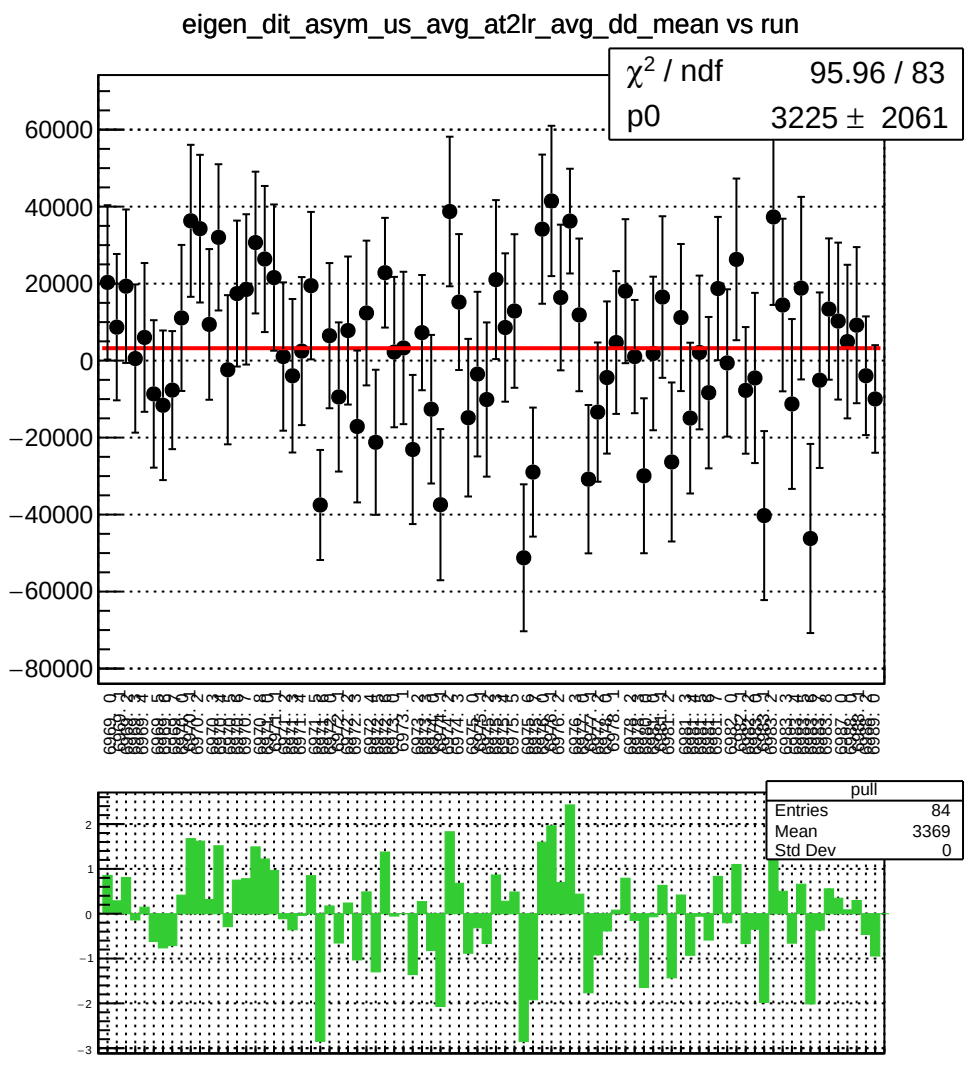

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.397e+04 / 83
p0 1.088e+04 ± 8.576
14000
12000
10000
8000
6000

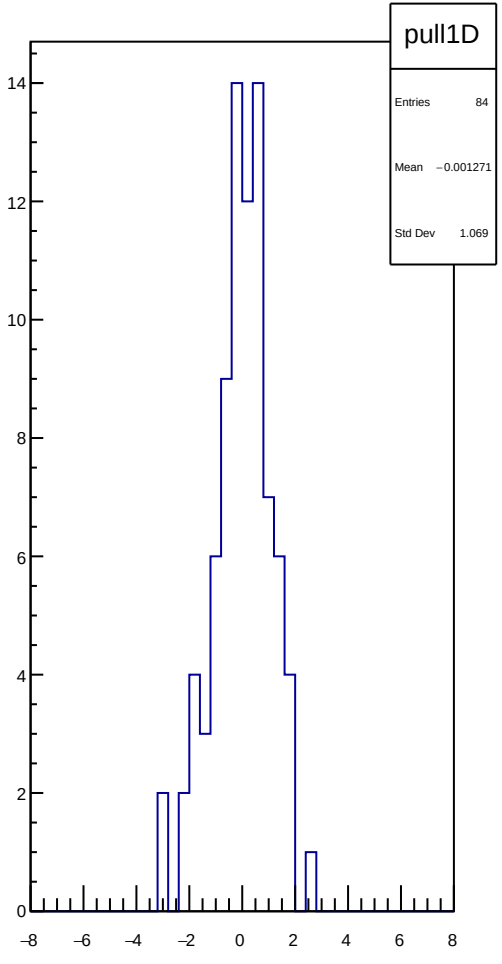

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.96 / 83
p0 3225 ± 2061
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 3369
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.001271
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

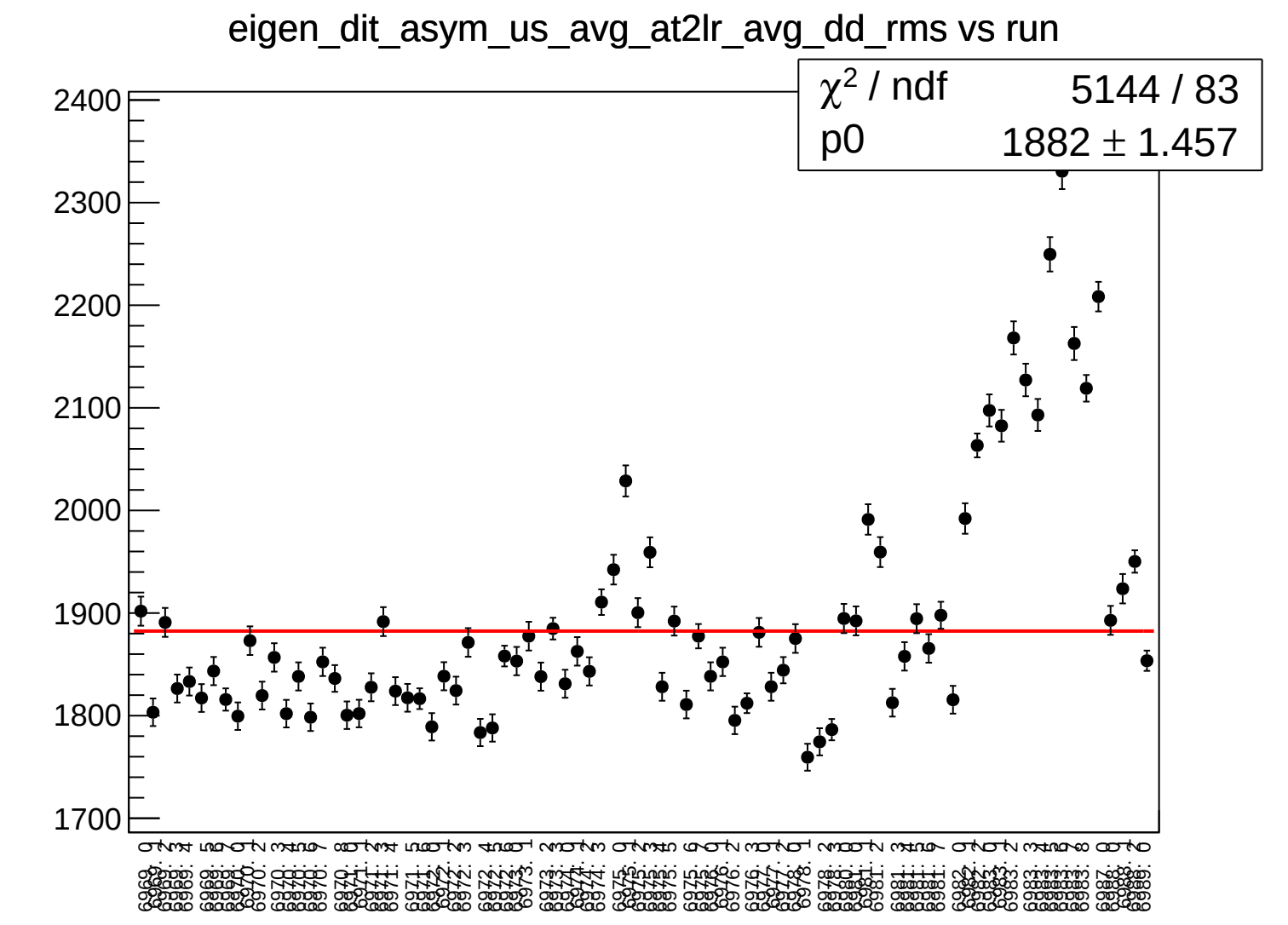

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 5144 / 83
p0 1882 ± 1.457
2400
2300
2200
2100
2000
1900
1800
1700

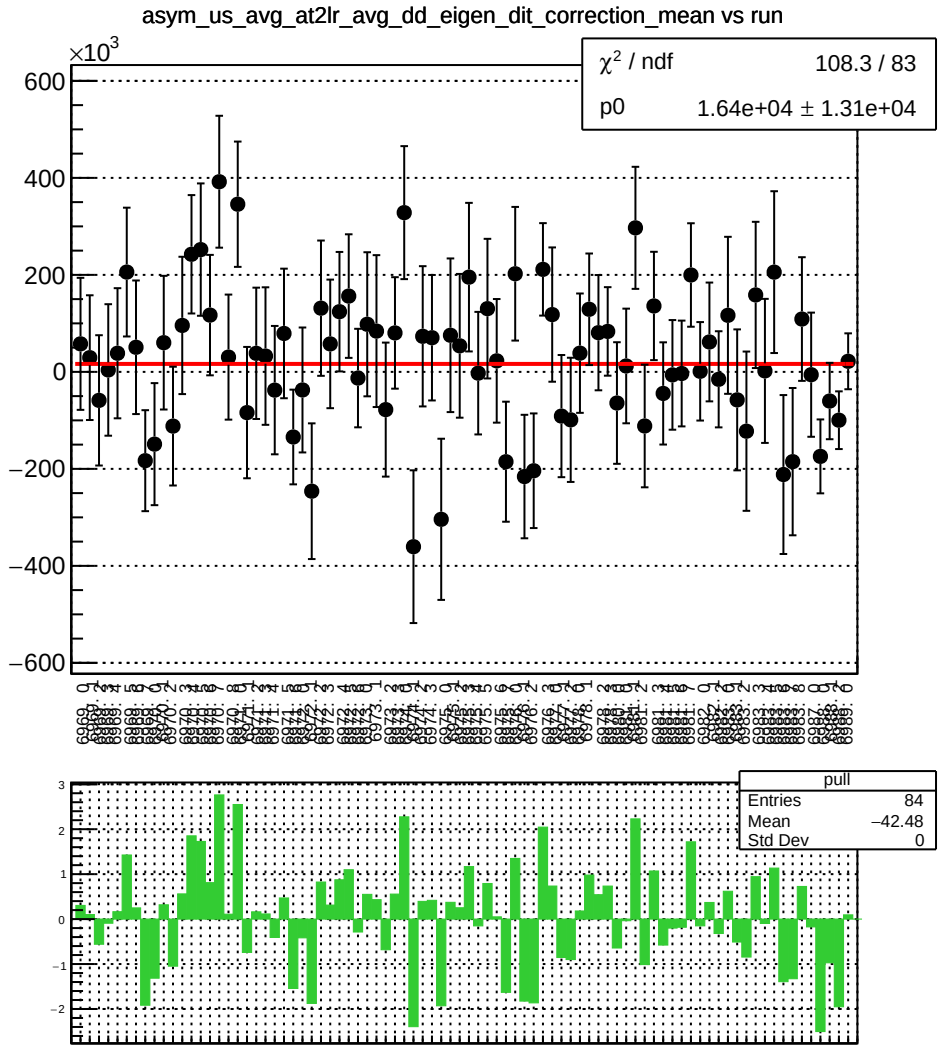

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 108.3 / 83
p0 1.64e+04 ± 1.31e+04
pull
Entries 84
Mean −42.48
Std Dev 0
pull1D
Entries 84
Mean 0.05001
Std Dev 1.135

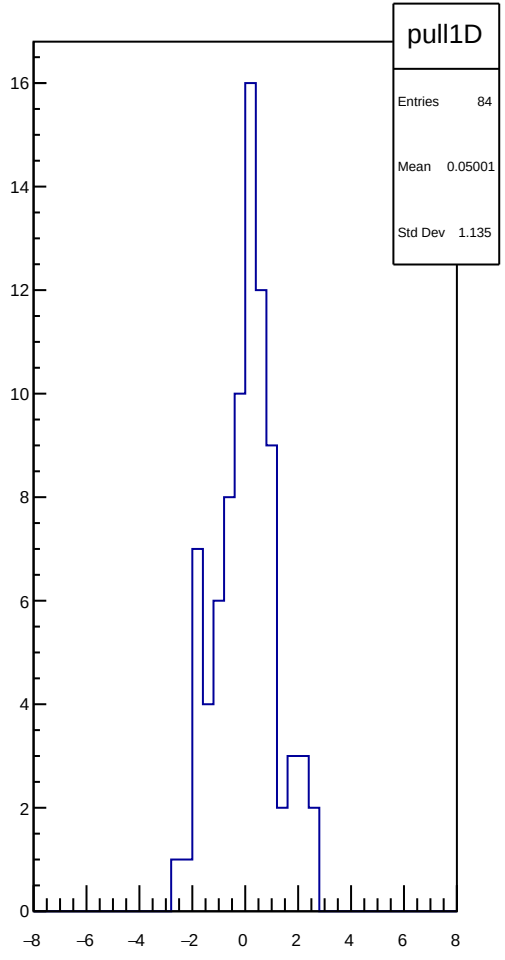

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 5.704e+04 / 83
p0 1.177e+04 ± 9.26
16000
14000
12000
10000
8000

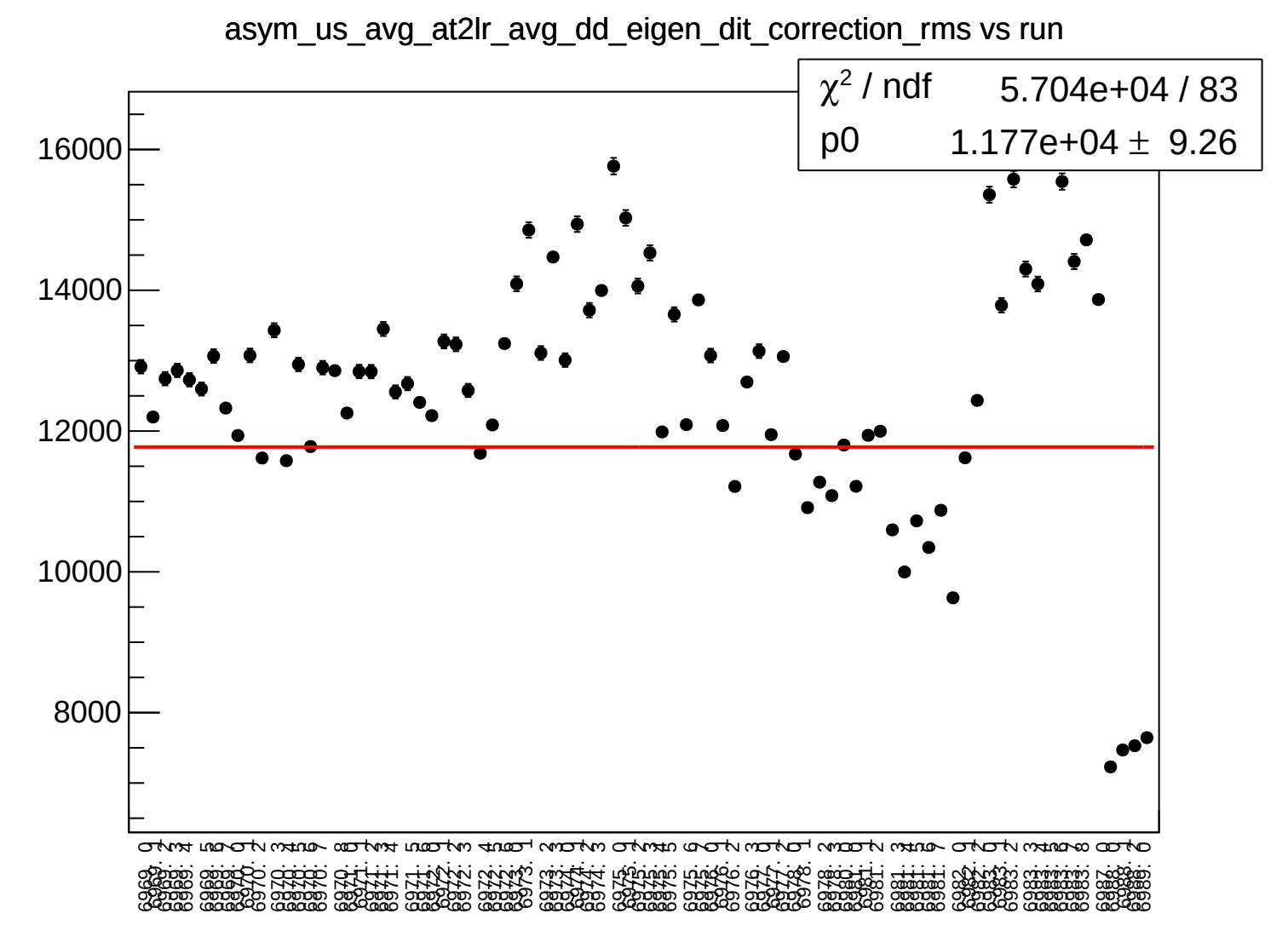

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.96 / 83
p0 3225 ± 2061
pull
Entries 84
Mean 3369
Std Dev 0

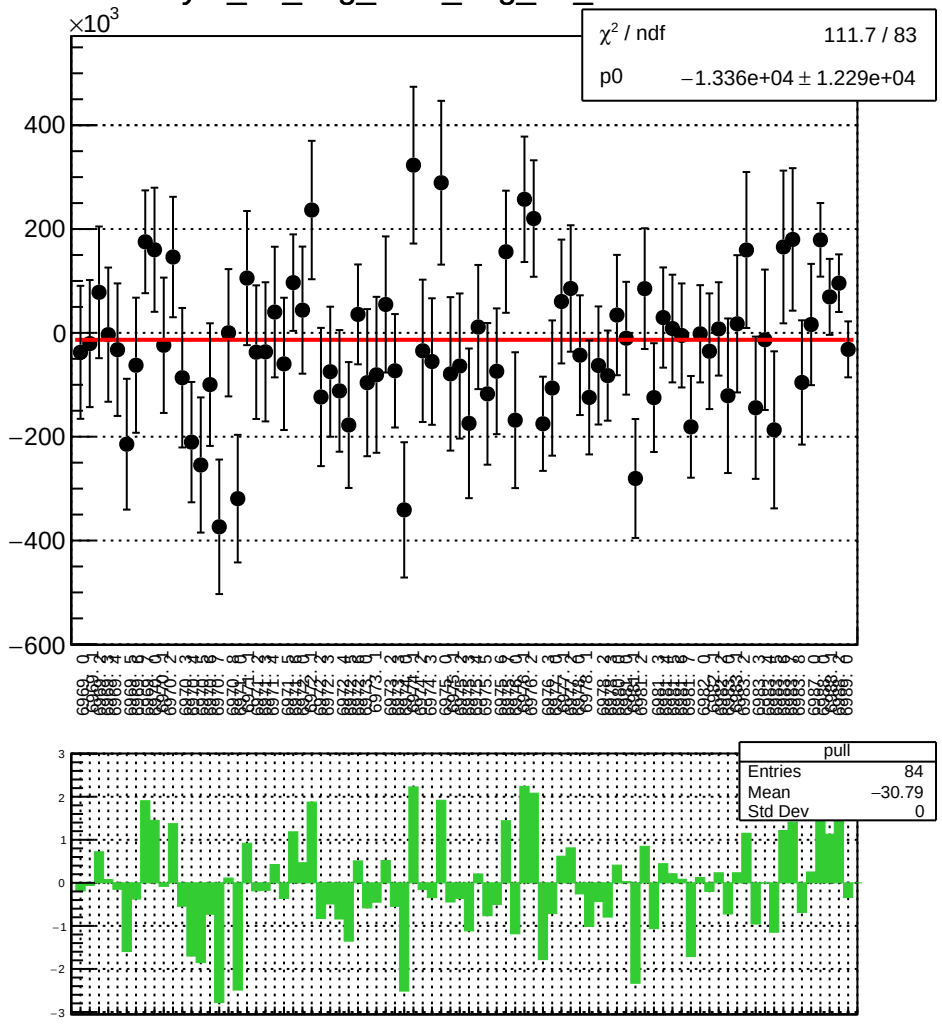

pull1D
Entries 84
Mean −0.001271
Std Dev 1.069

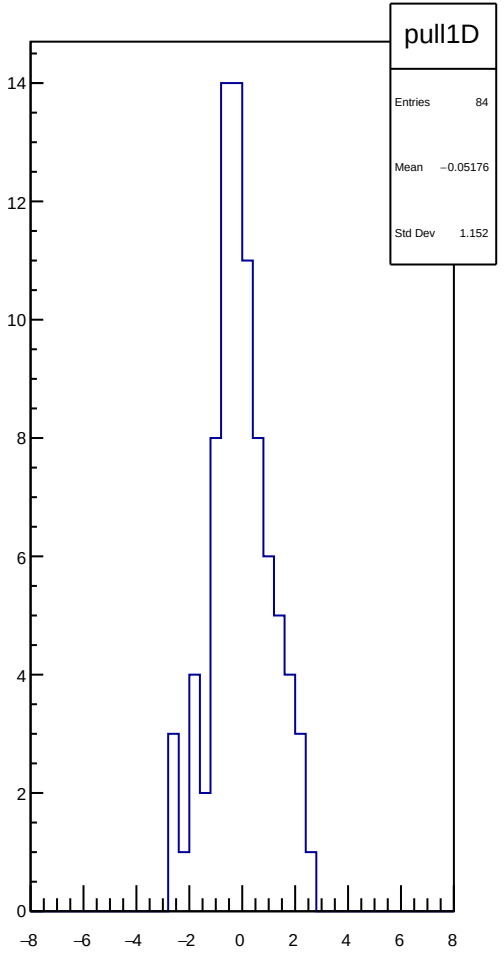

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 5144 / 83
p0 1882 ± 1.457
2400
2300
2200
2100
2000
1900
1800
1700

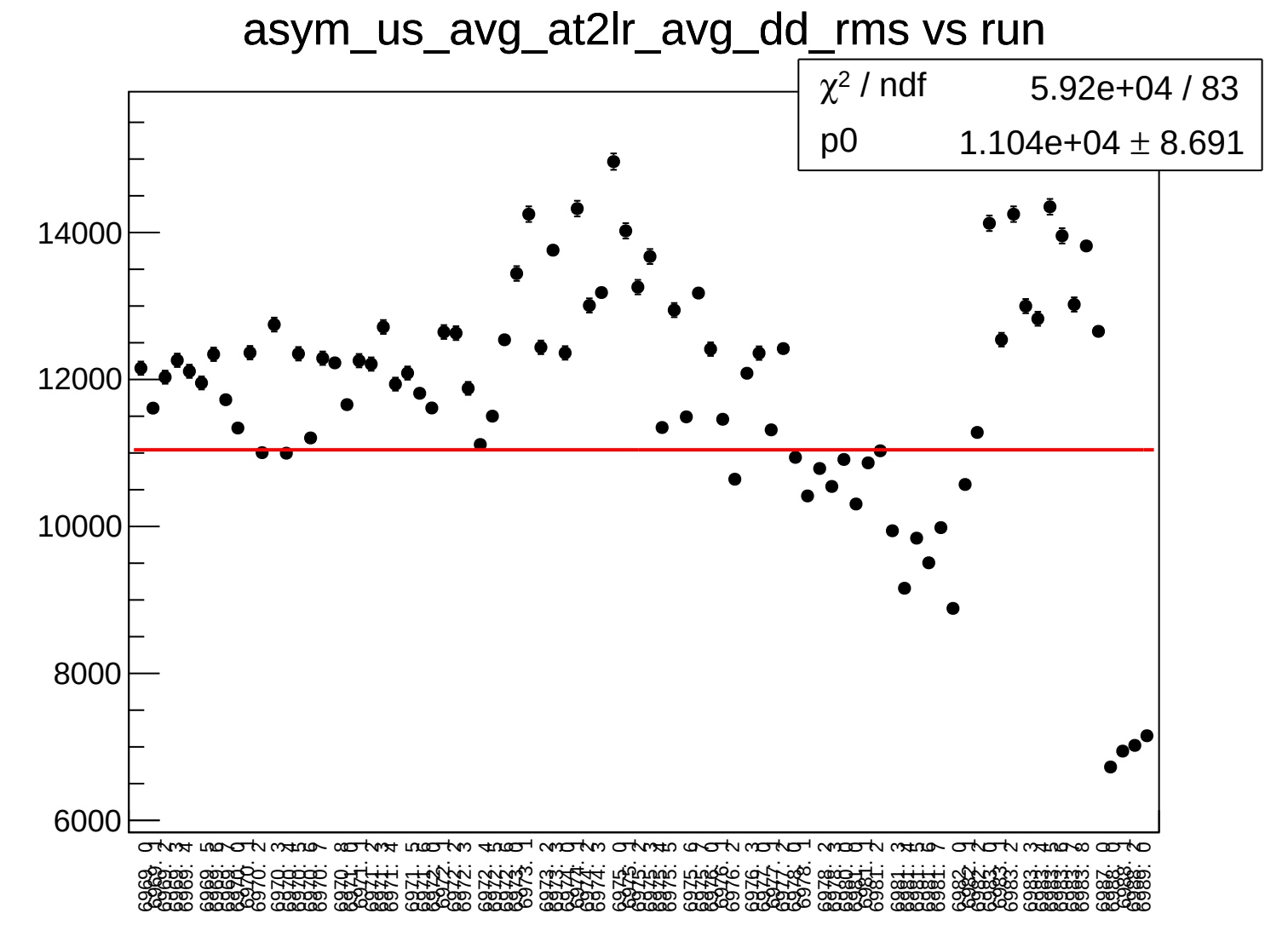

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 108.3 / 83
p0 1.64e+04 ± 1.31e+04
pull
Entries 84
Mean −42.48
Std Dev 0
3
2
1
0
−1
−2

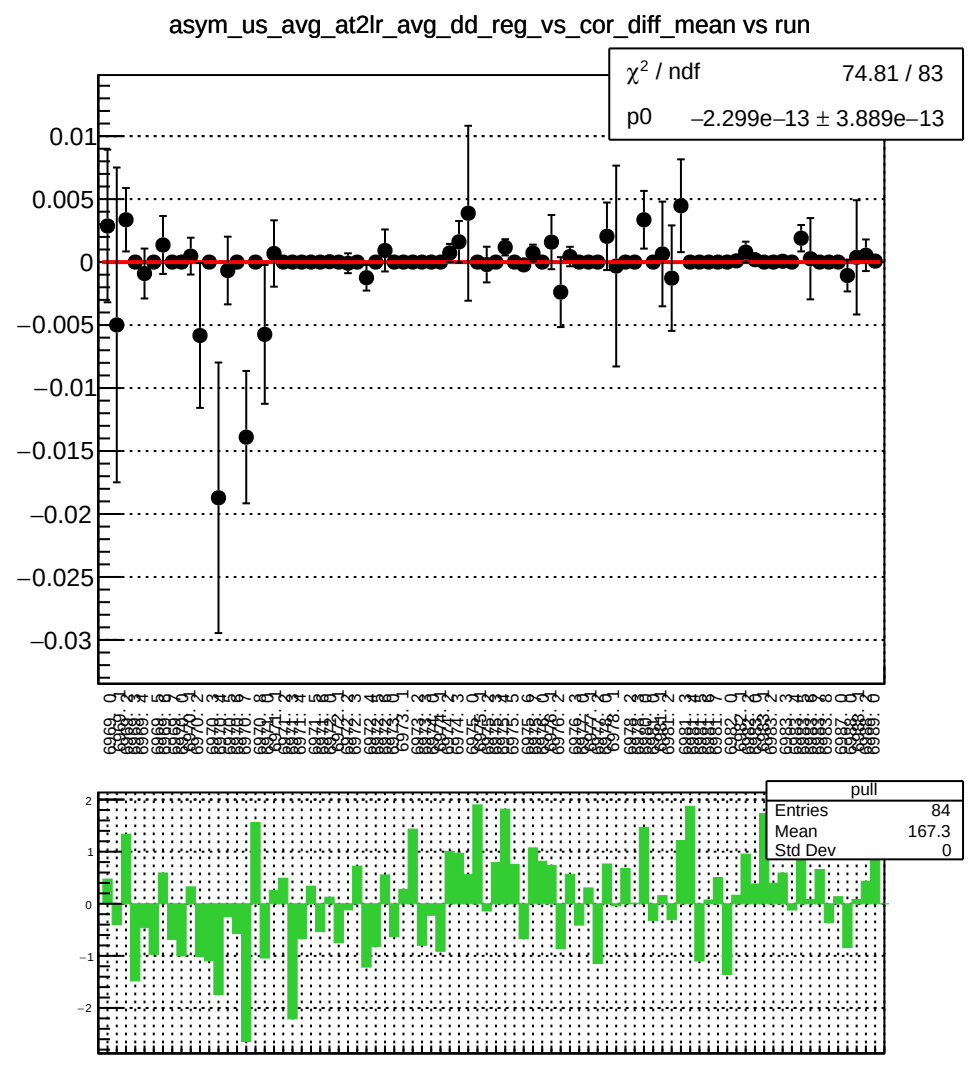

pull1D
Entries 84
Mean 0.05001
Std Dev 1.135
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

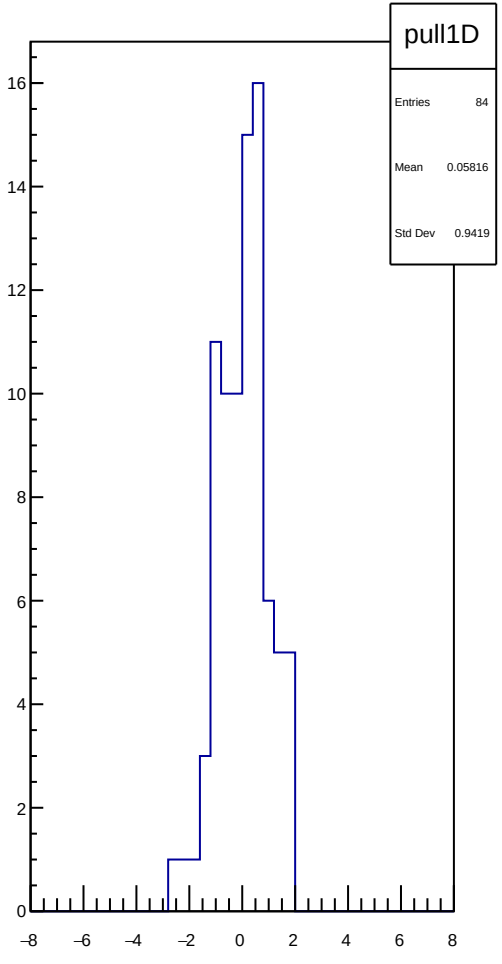

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.704e+04 / 83
p0 1.177e+04 ± 9.26
16000
14000
12000
10000
8000

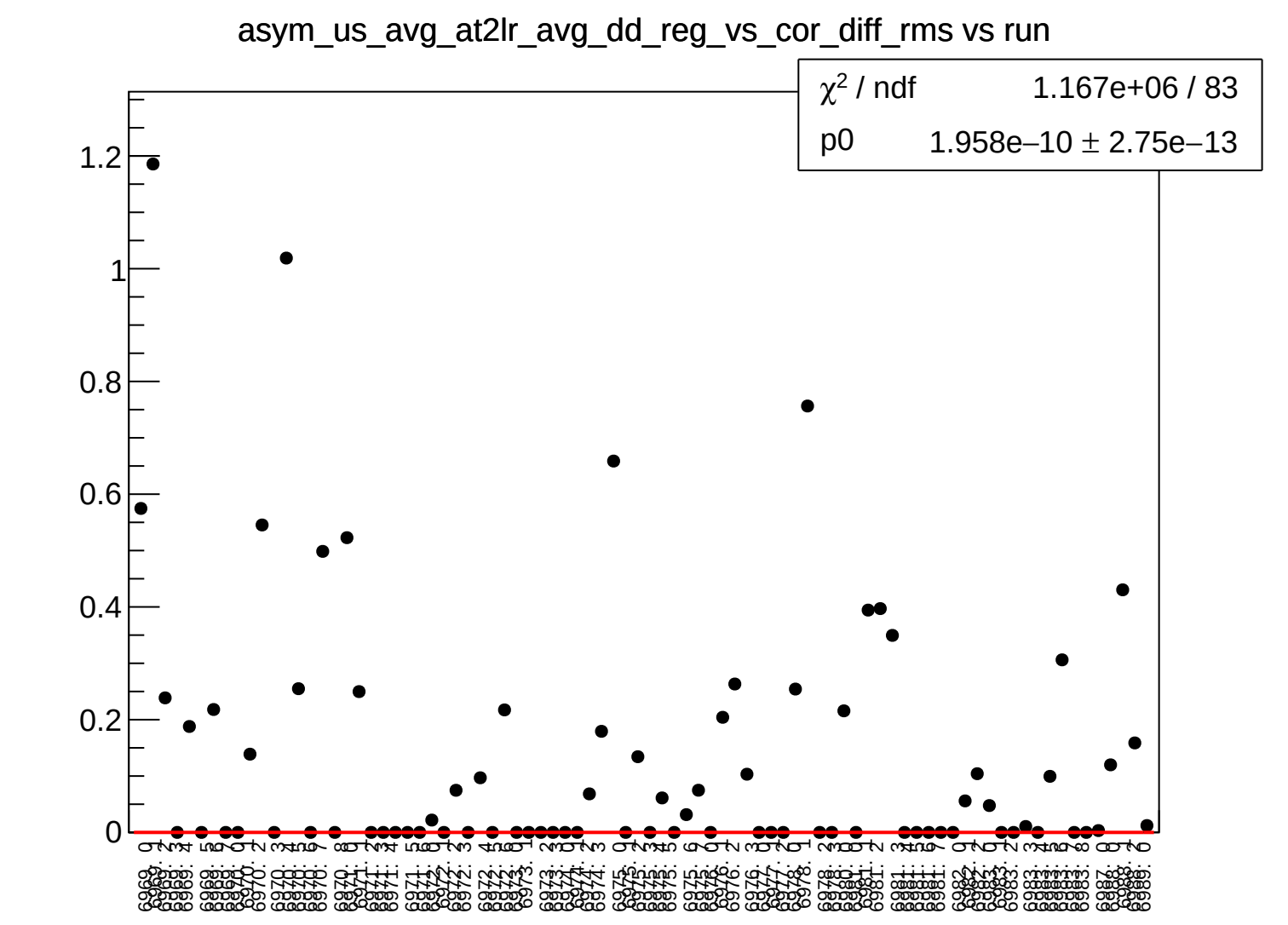

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 111.7 / 83
p0 −1.336e+04 ± 1.229e+04
400
200
0
−200
−400
−600
pull
Entries 84
Mean −30.79
Std Dev 0
3
2
1
0
−1
−2
−3

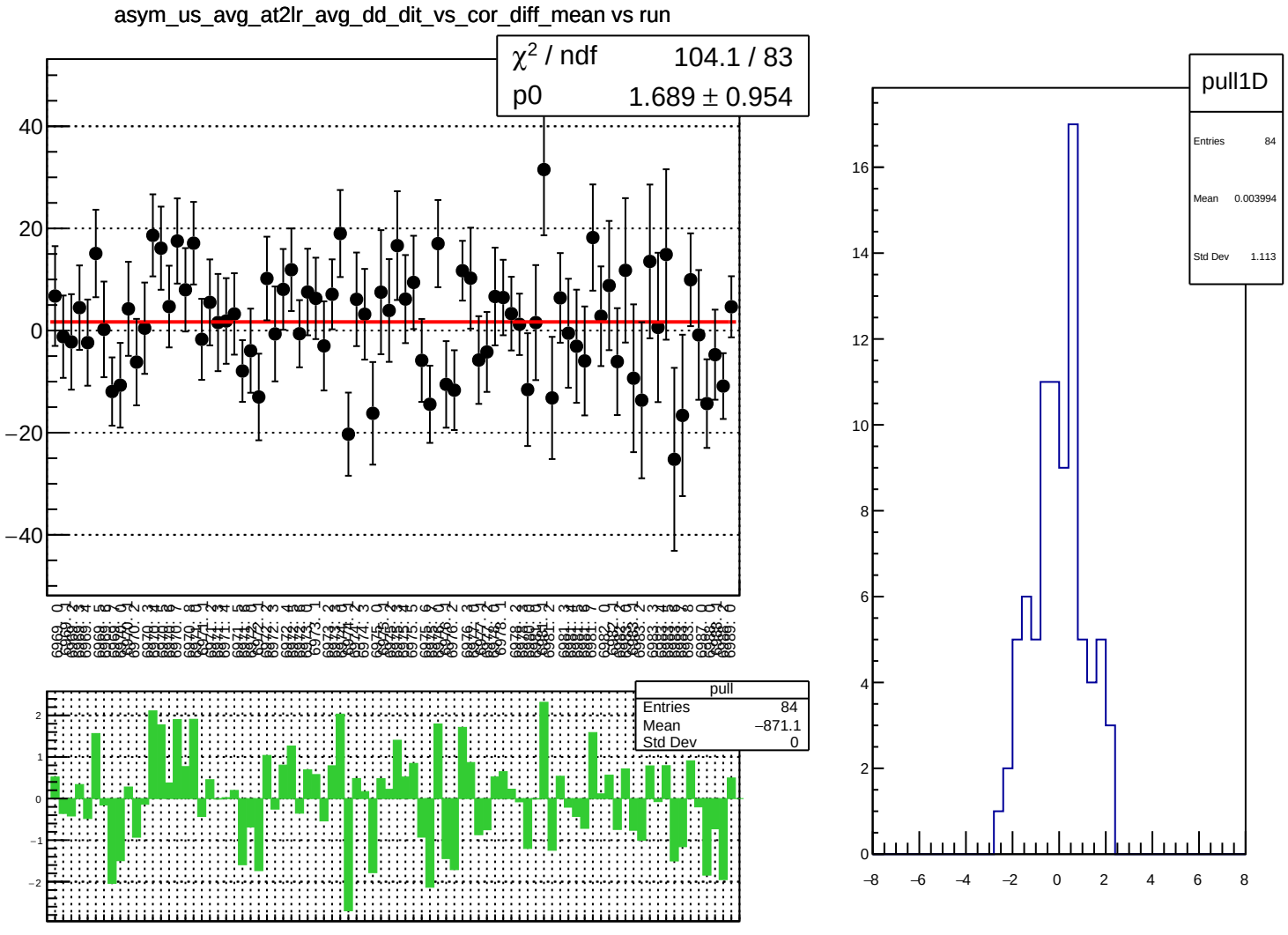

pull1D
Entries 84
Mean −0.05176
Std Dev 1.152
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

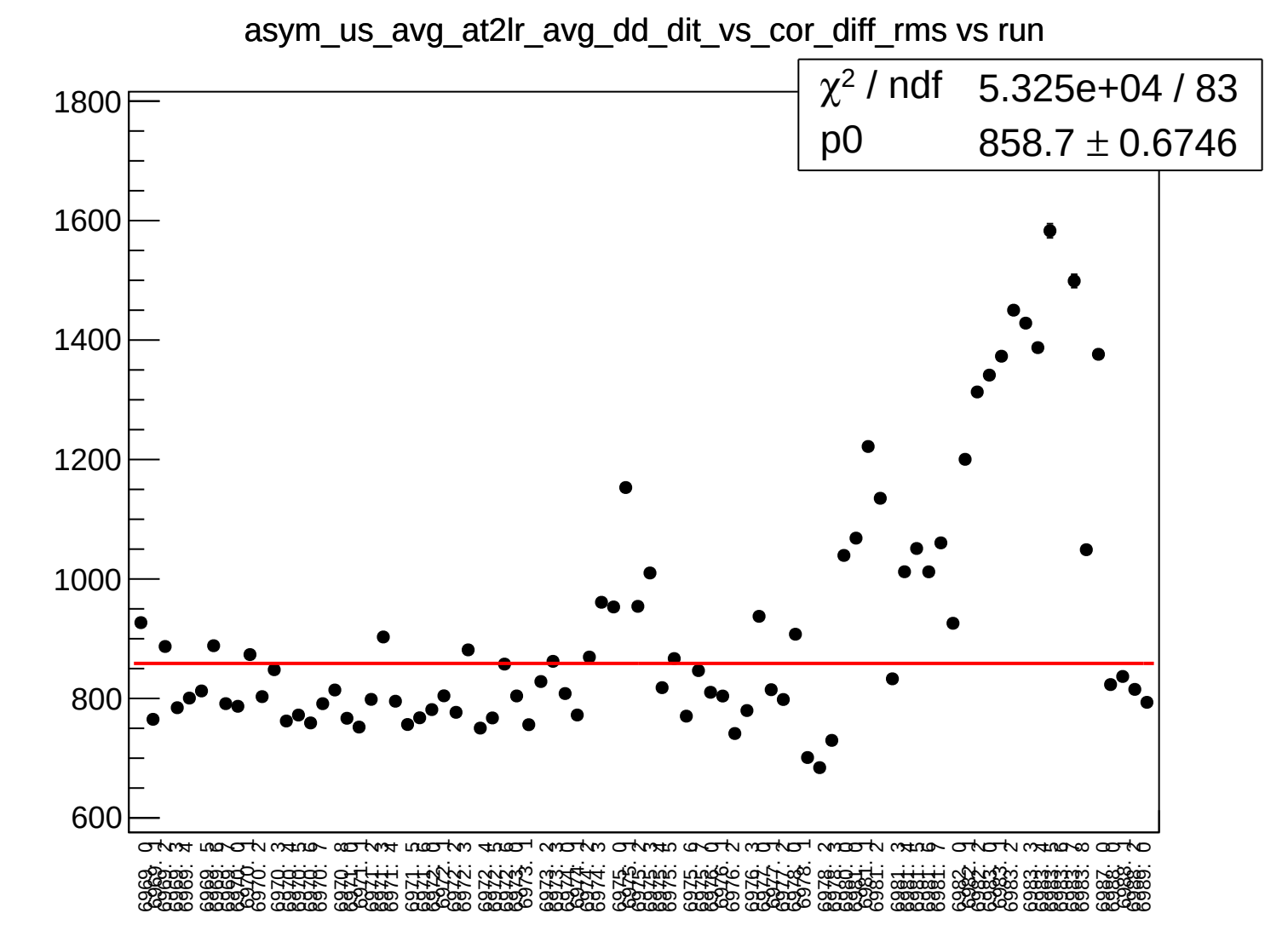

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 5.92e+04 / 83
p0 1.104e+04 ± 8.691
14000
12000
10000
8000
6000

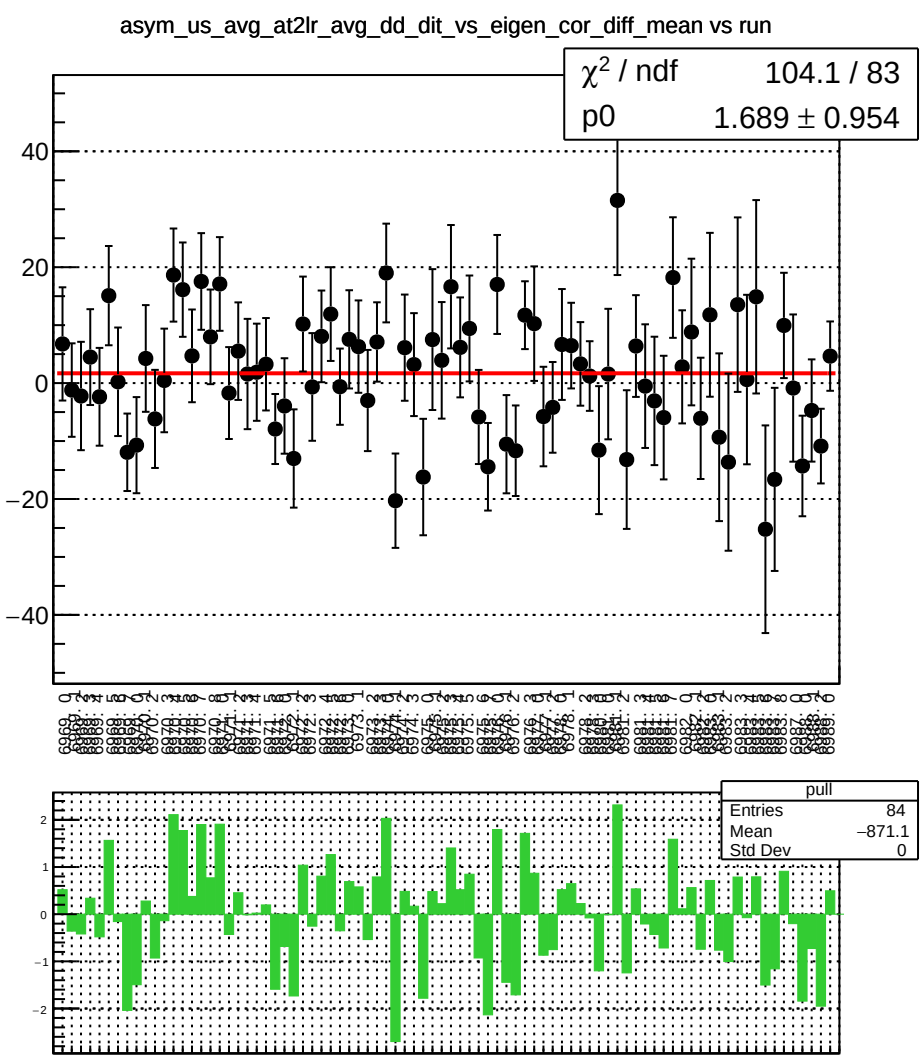

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.81 / 83
p0 −2.299e−13 ± 3.889e−13
pull
Entries 84
Mean 167.3
Std Dev 0

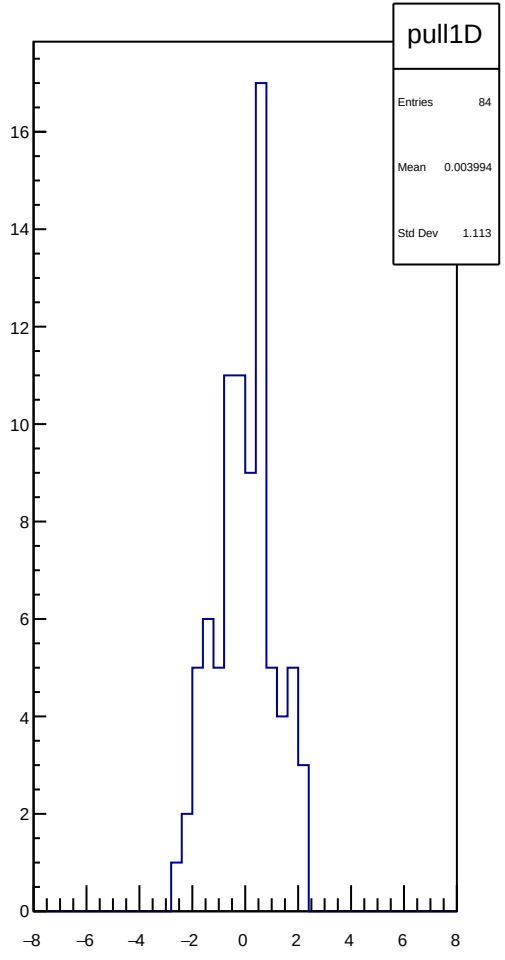

pull1D
Entries 84
Mean 0.05816
Std Dev 0.9419

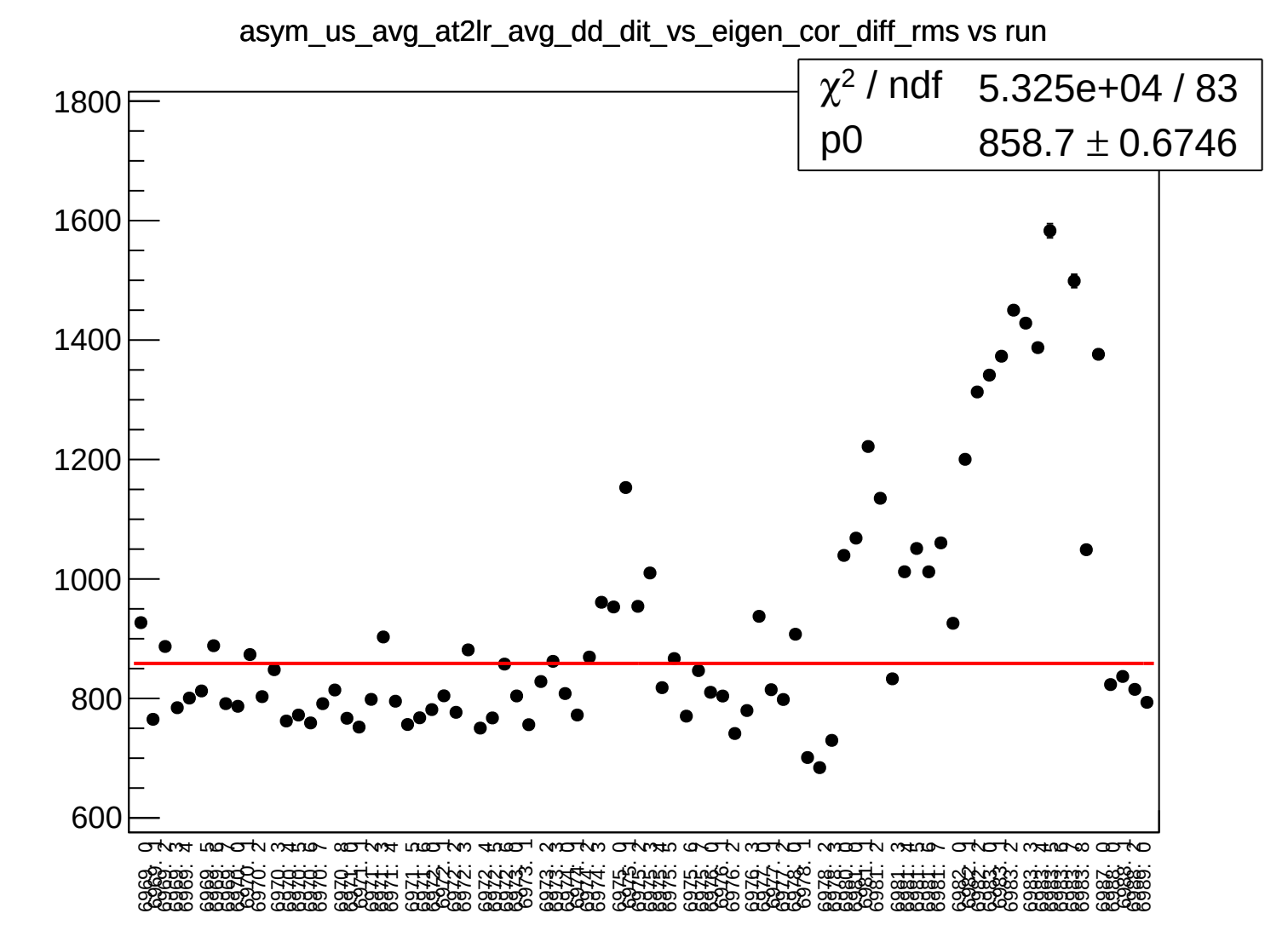

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.167e+06 / 83
p0 1.958e−10 ± 2.75e−13
1.2
1
0.8
0.6
0.4
0.2
0

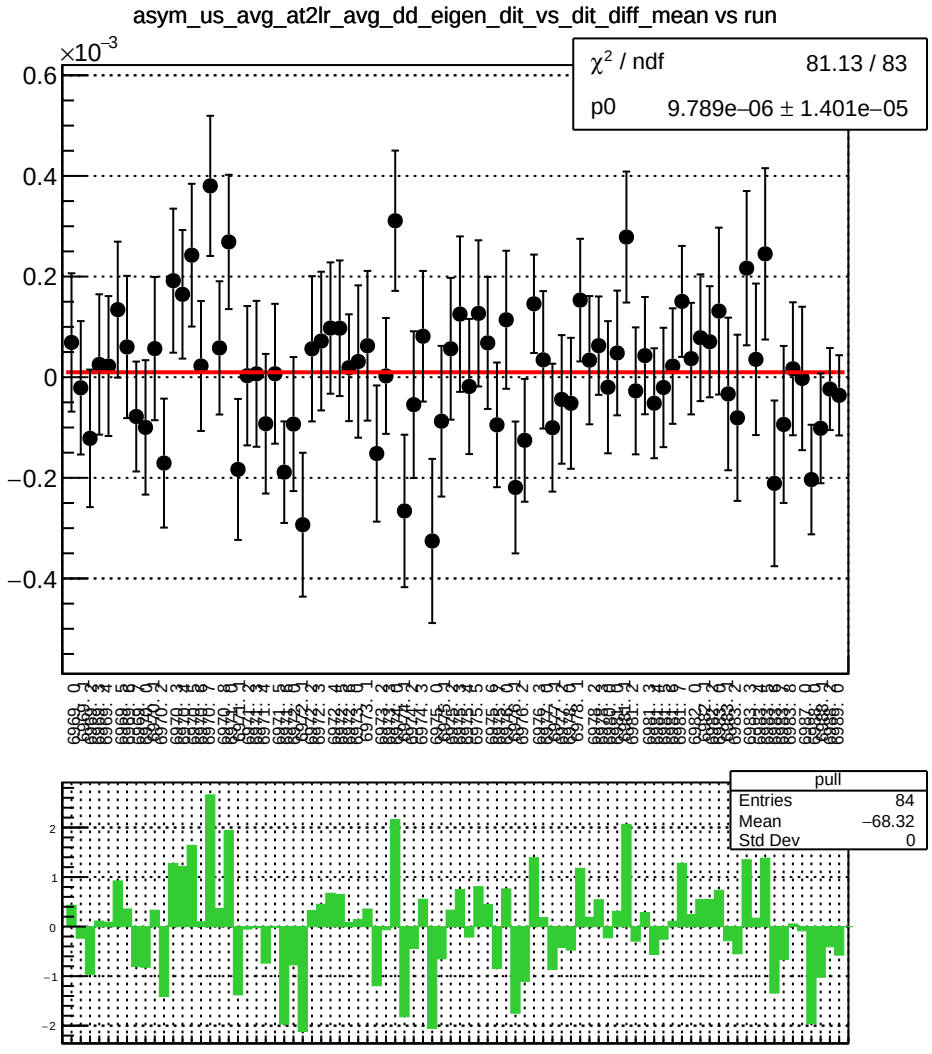

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 83
p0 1.689 ± 0.954
pull
Entries 84
Mean −871.1
Std Dev 0
pull1D
Entries 84
Mean 0.003994
Std Dev 1.113

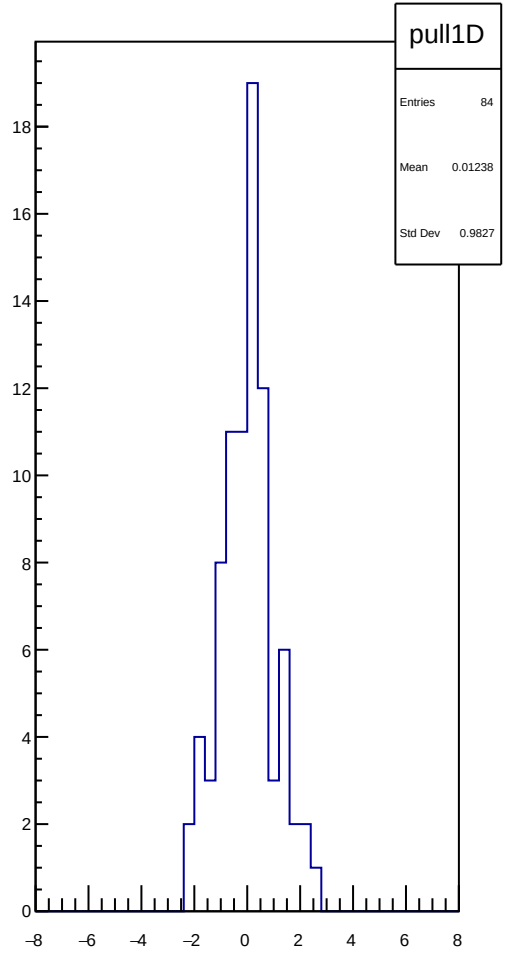

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.325e+04 / 83
p0 858.7 ± 0.6746
1800
1600
1400
1200
1000
800
600

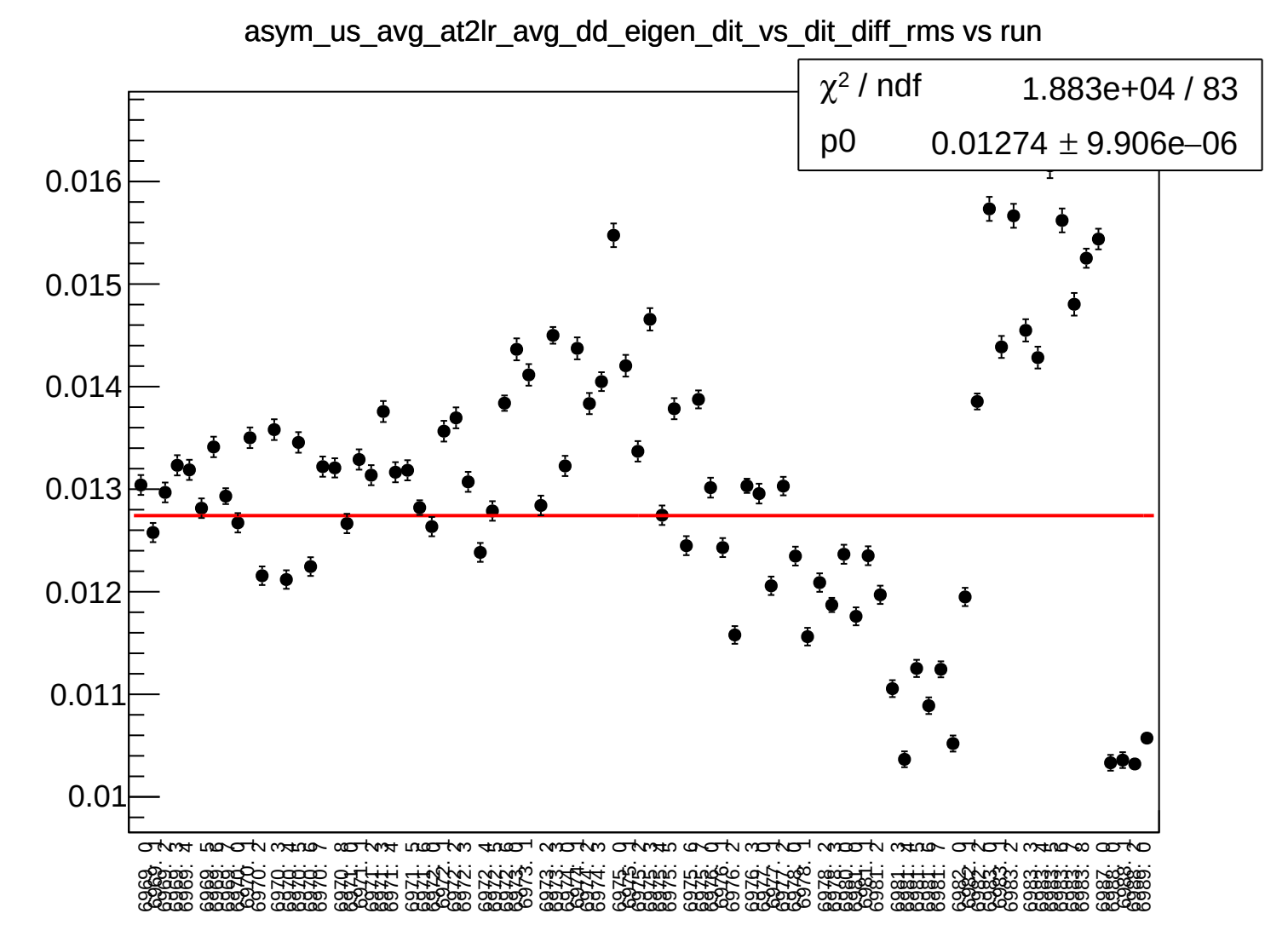

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 83
p0 1.689 ± 0.954
40
20
0
−20
−40
pull
Entries 84
Mean −871.1
Std Dev 0
2
1
0
−1
−2

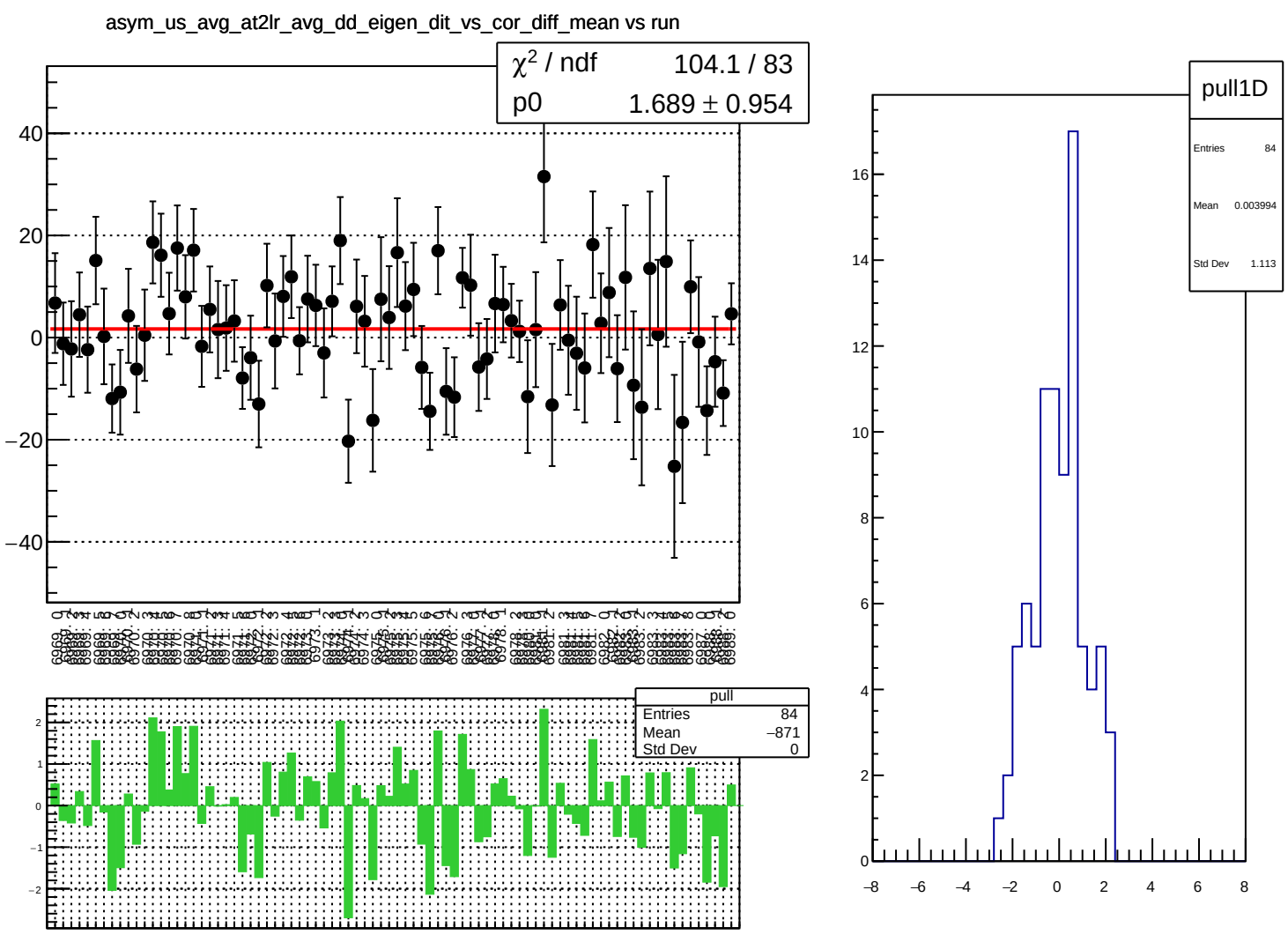

pull1D
Entries 84
Mean 0.003994
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

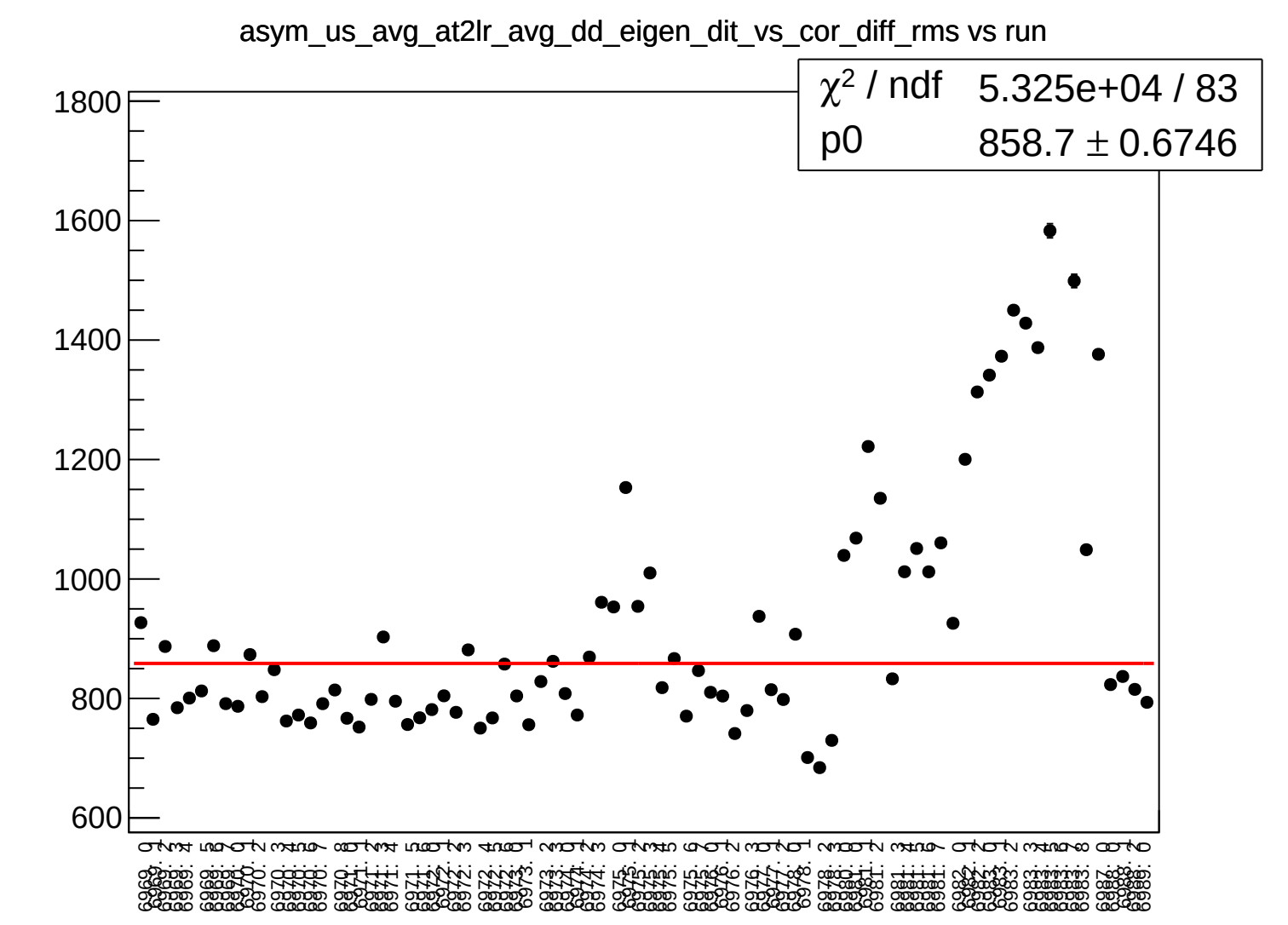

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.325e+04 / 83
p0 858.7 ± 0.6746
1800
1600
1400
1200
1000
800
600

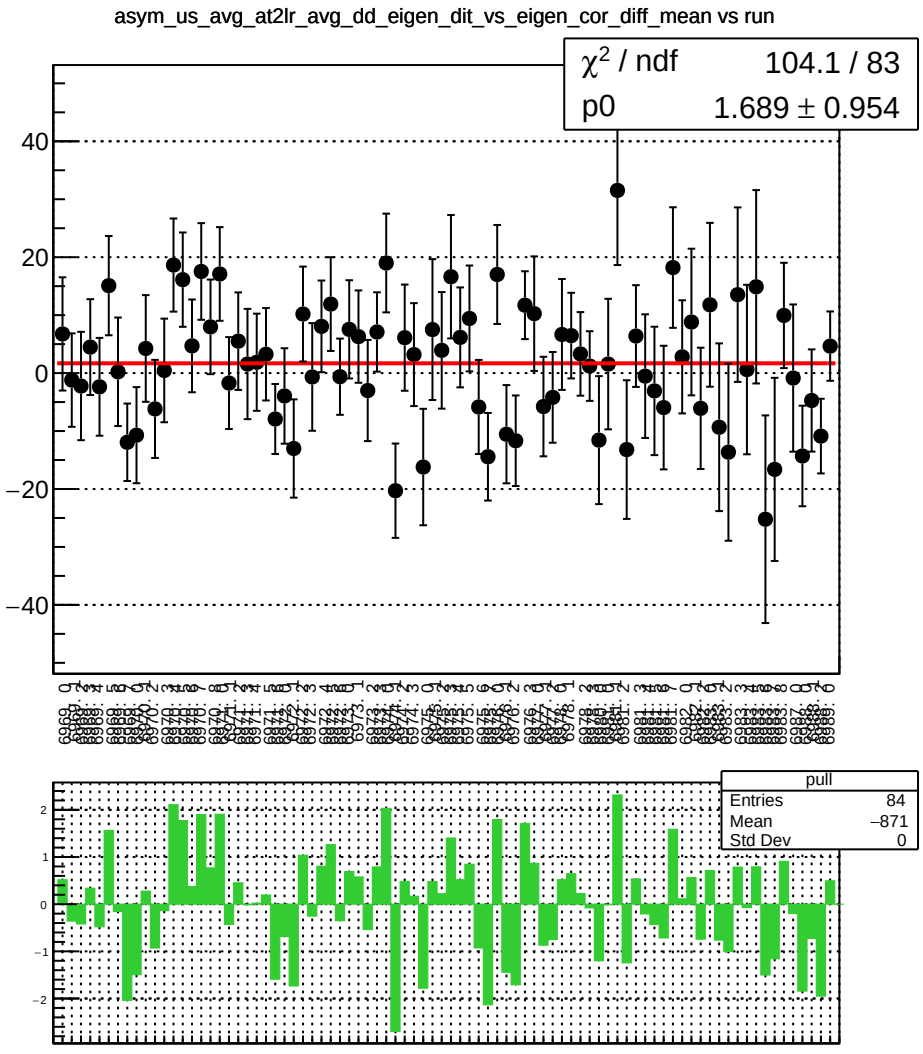

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 81.13 / 83
p0 9.789e−06 ± 1.401e−05
pull
Entries 84
Mean −68.32
Std Dev 0

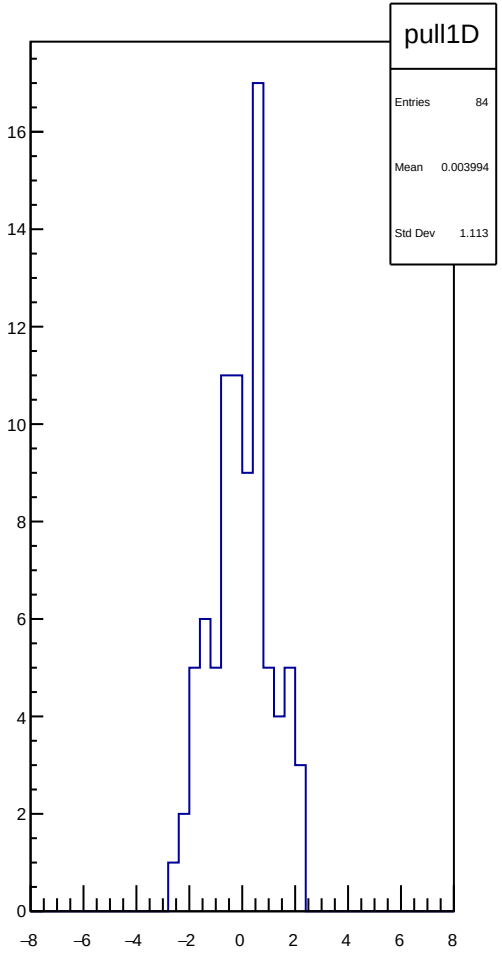

pull1D
Entries 84
Mean 0.01238
Std Dev 0.9827

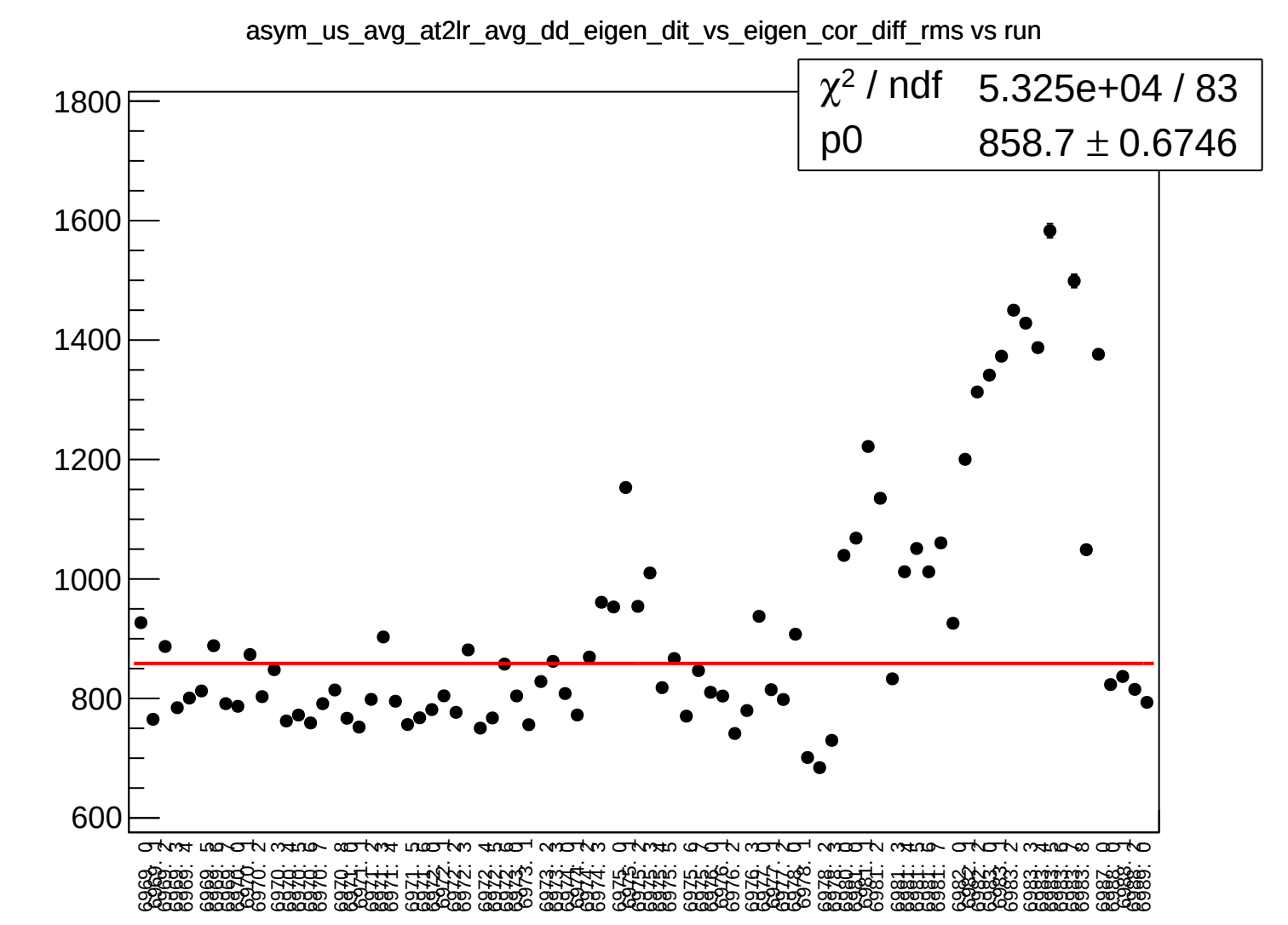

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.883e+04 / 83
p0 0.01274 ± 9.906e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

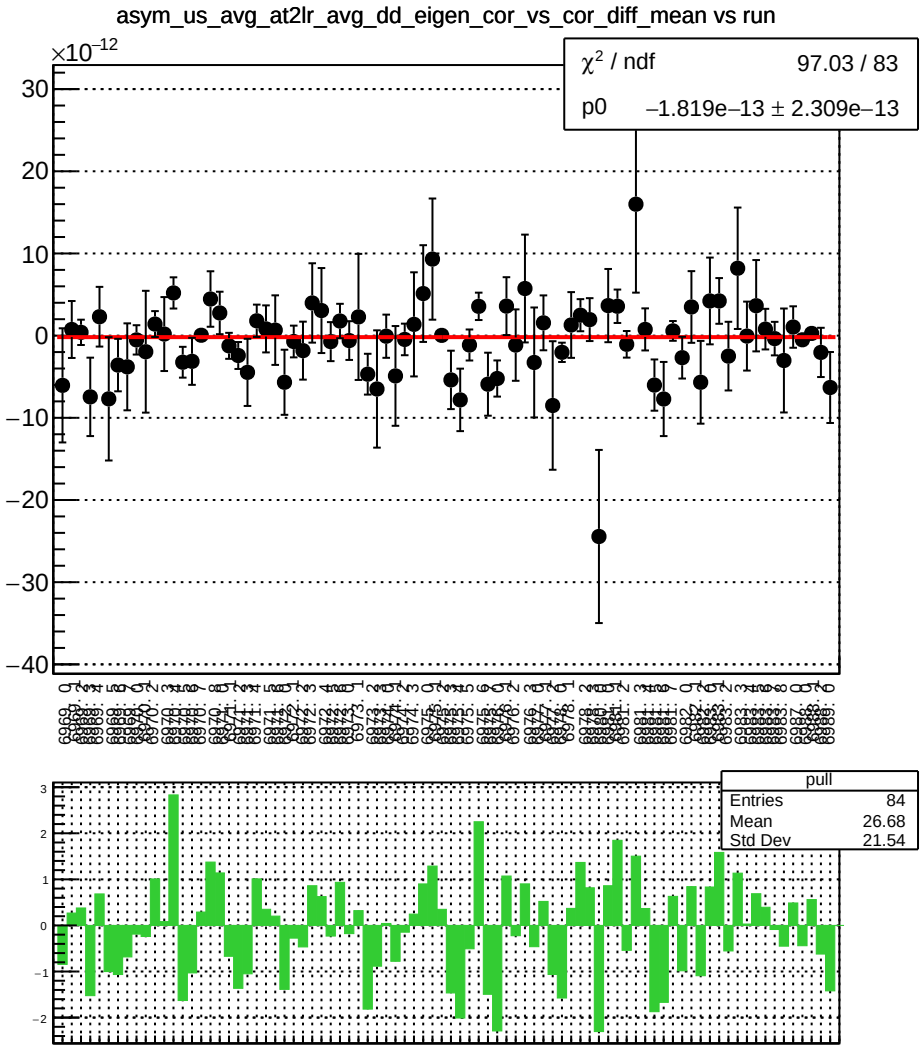

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 83
p0 1.689 ± 0.954
40
20
0
−20
−40
pull
Entries 84
Mean −871
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.003994
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

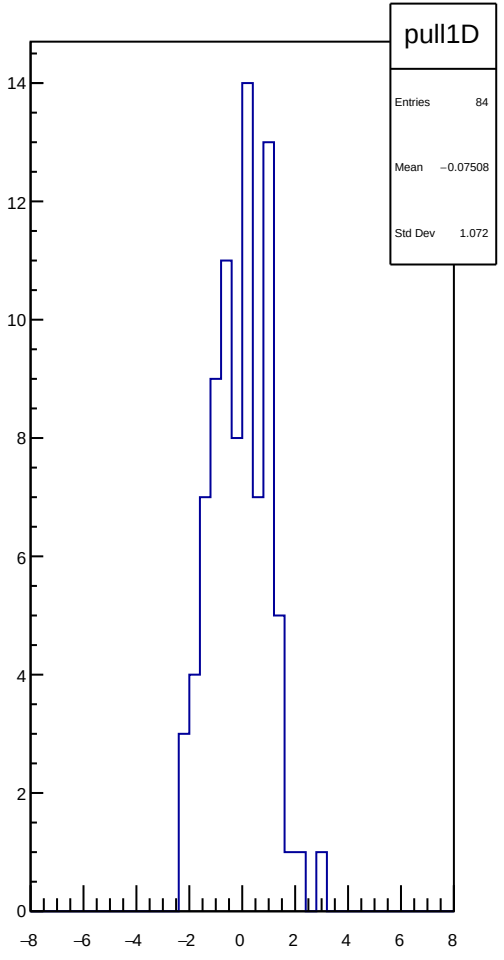

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.325e+04 / 83
p0 858.7 ± 0.6746
1800
1600
1400
1200
1000
800
600

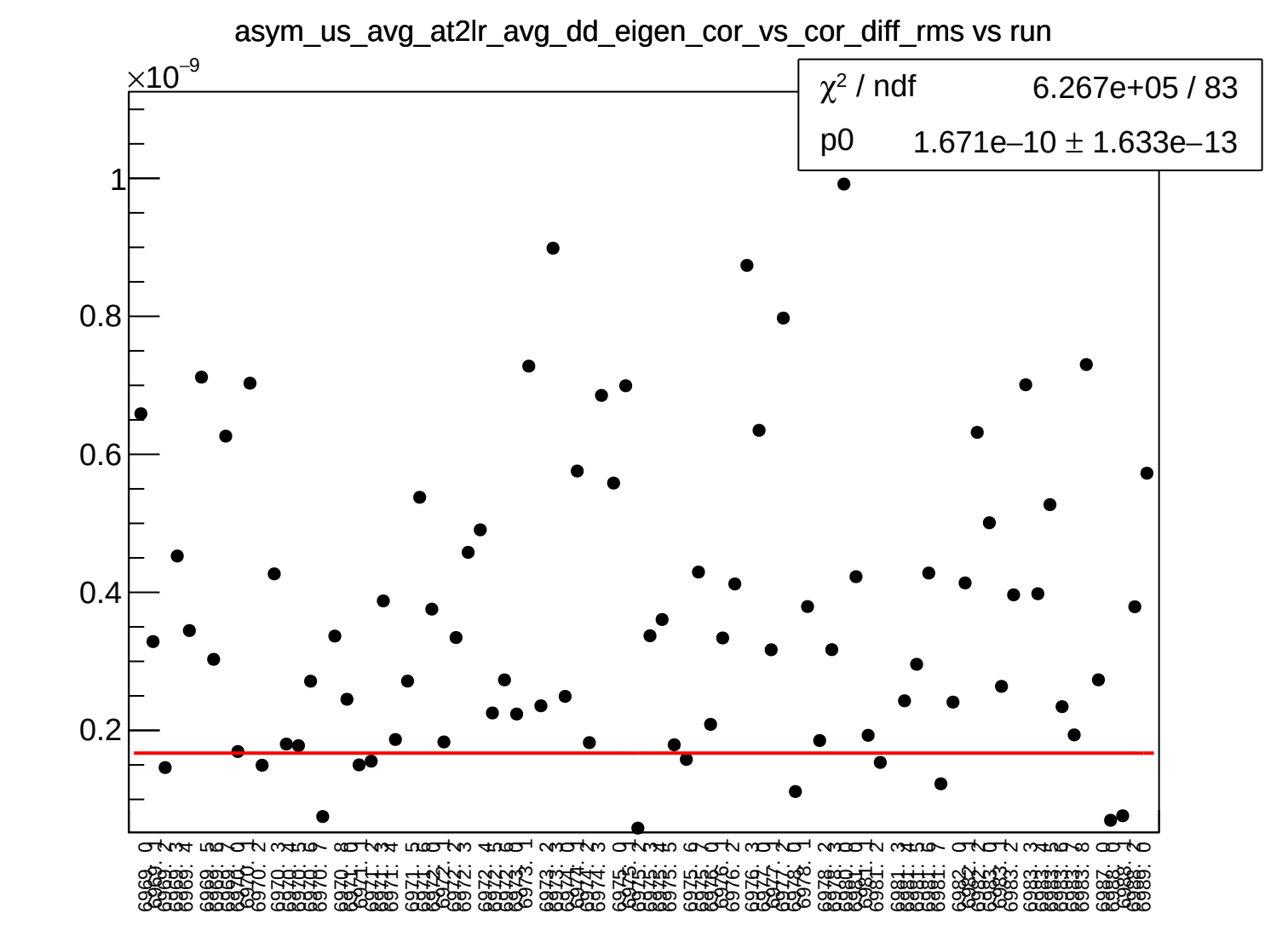

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 83
p0 1.689 ± 0.954
pull
Entries 84
Mean −871
Std Dev 0

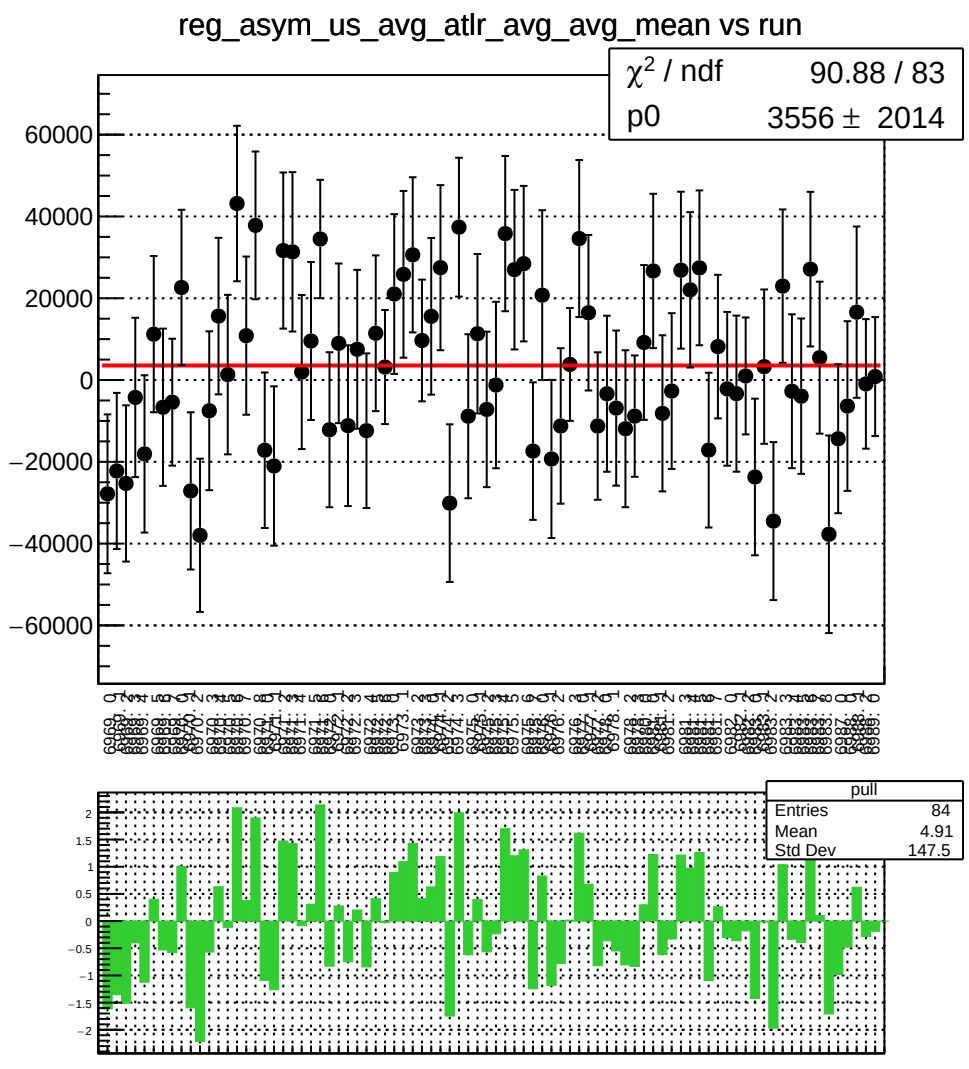

pull1D
Entries 84
Mean 0.003994
Std Dev 1.113

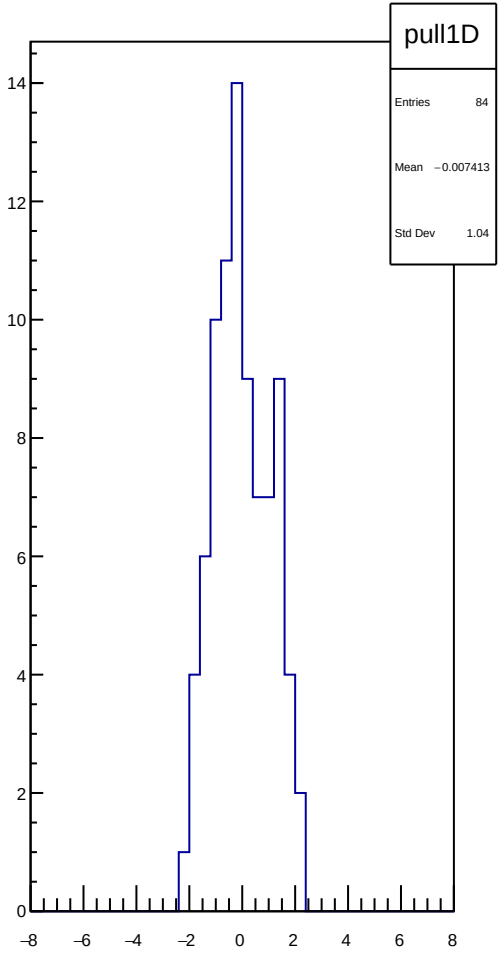

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.325e+04 / 83
p0 858.7 ± 0.6746
1800
1600
1400
1200
1000
800
600

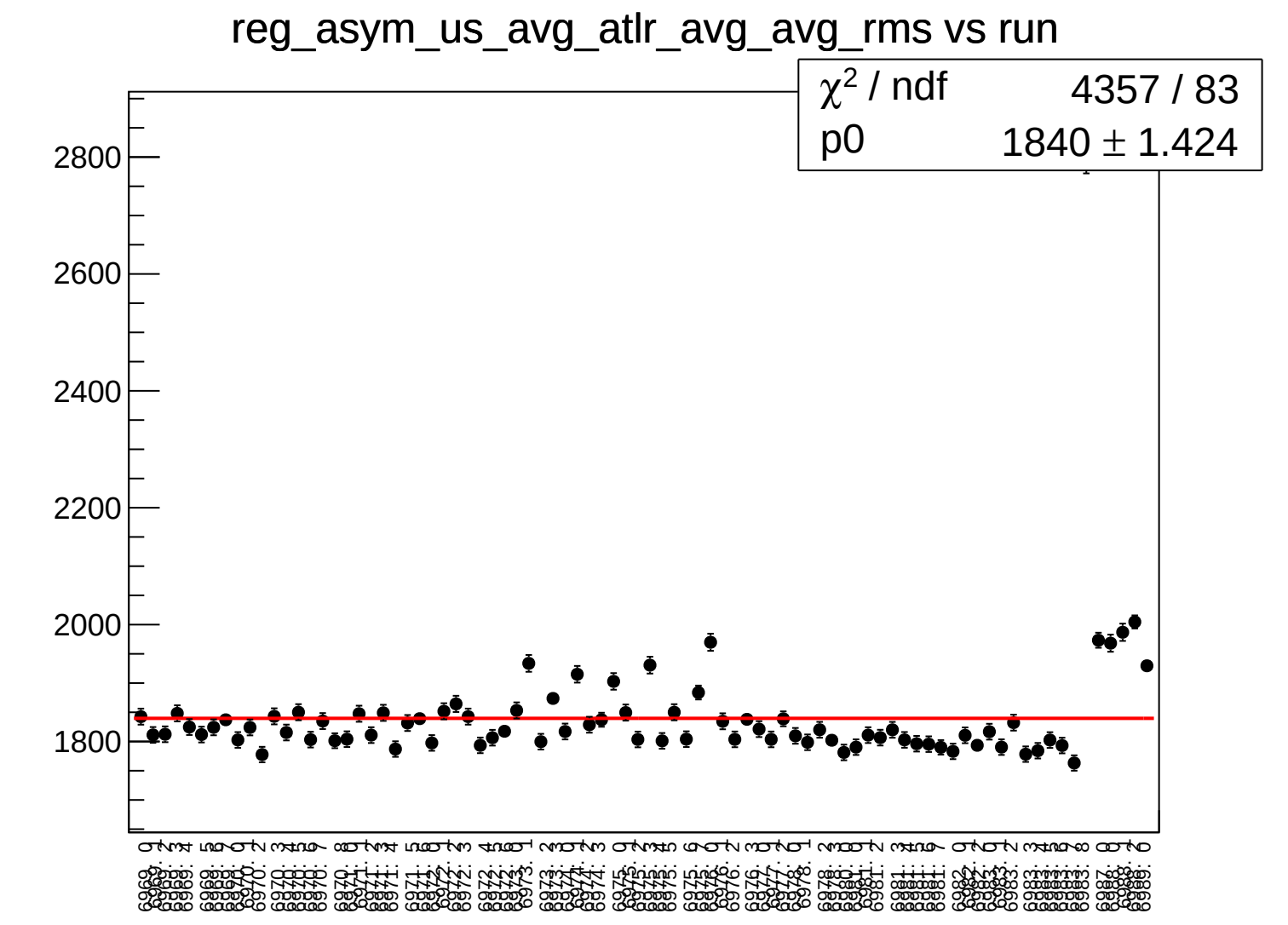

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.03 / 83
p0 −1.819e−13 ± 2.309e−13
pull
Entries 84
Mean 26.68
Std Dev 21.54

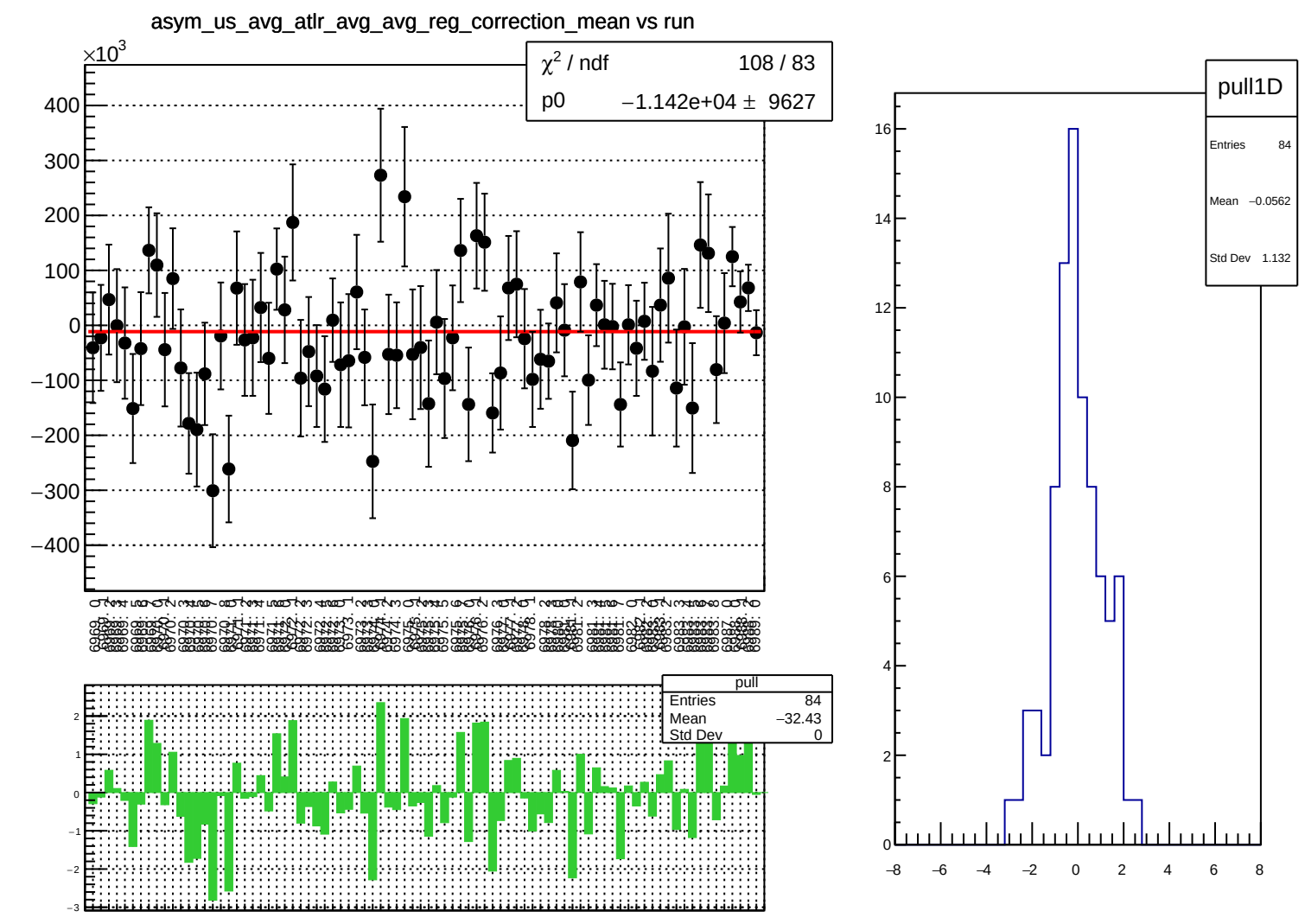

pull1D
Entries 84
Mean −0.07508
Std Dev 1.072

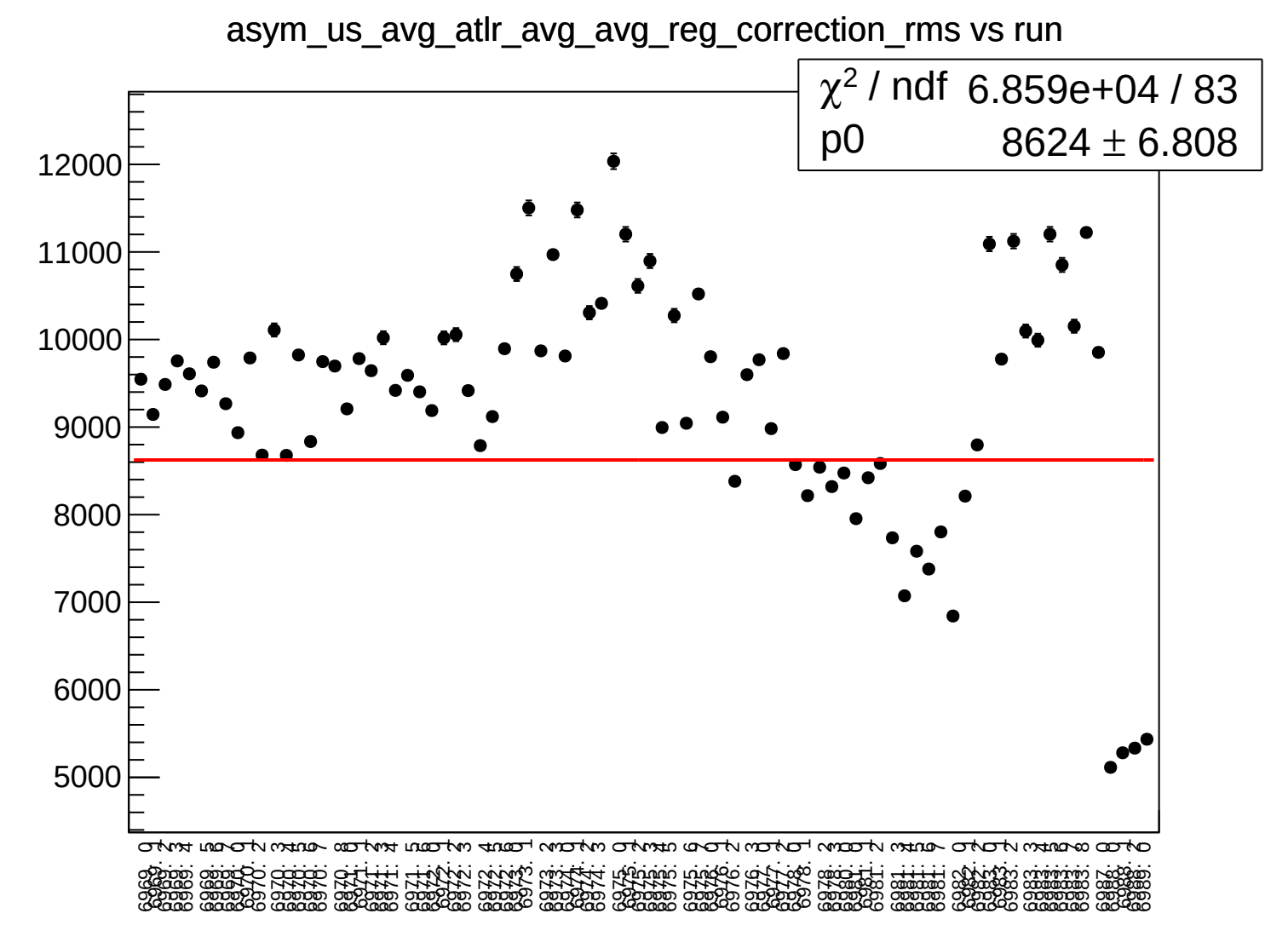

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.267e+05 / 83
p0 1.671e−10 ± 1.633e−13
1
0.8
0.6
0.4
0.2

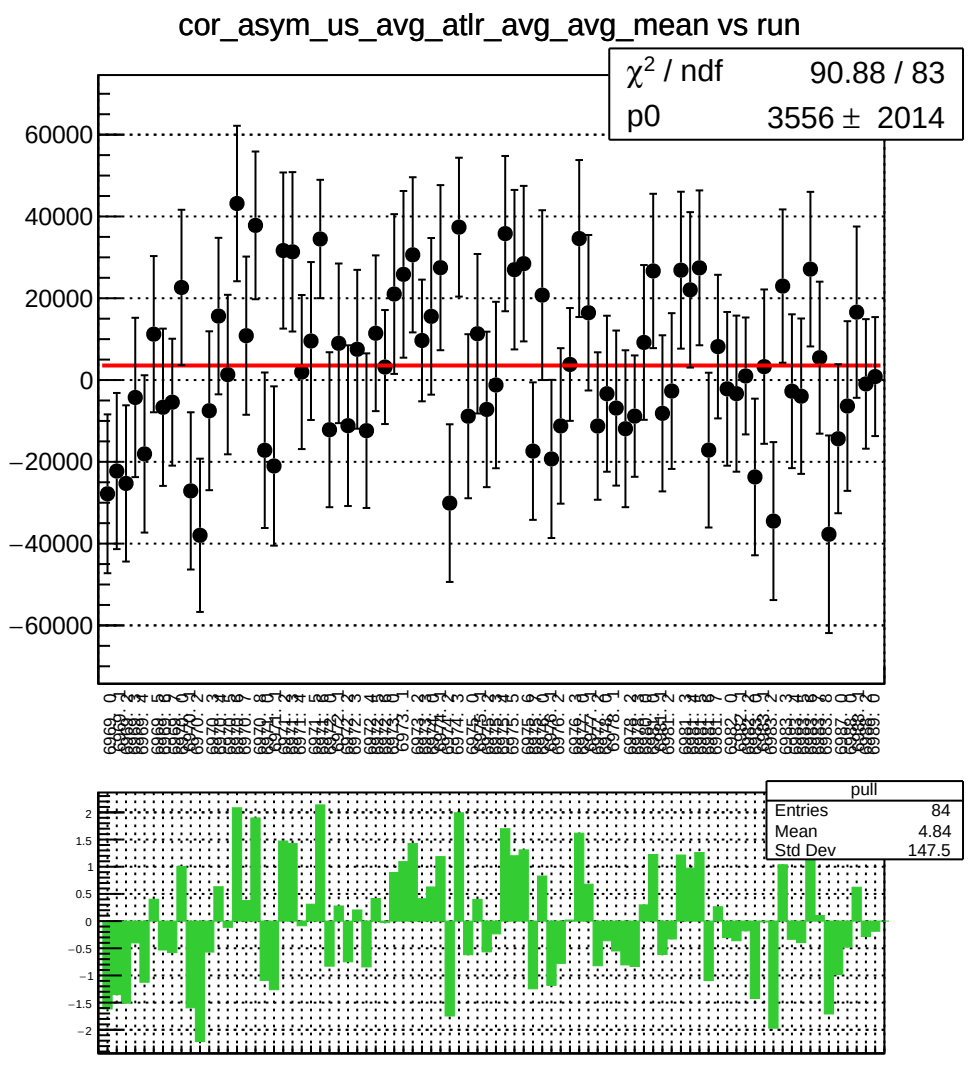

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 90.88 / 83
p0 3556 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 4.91
Std Dev 147.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

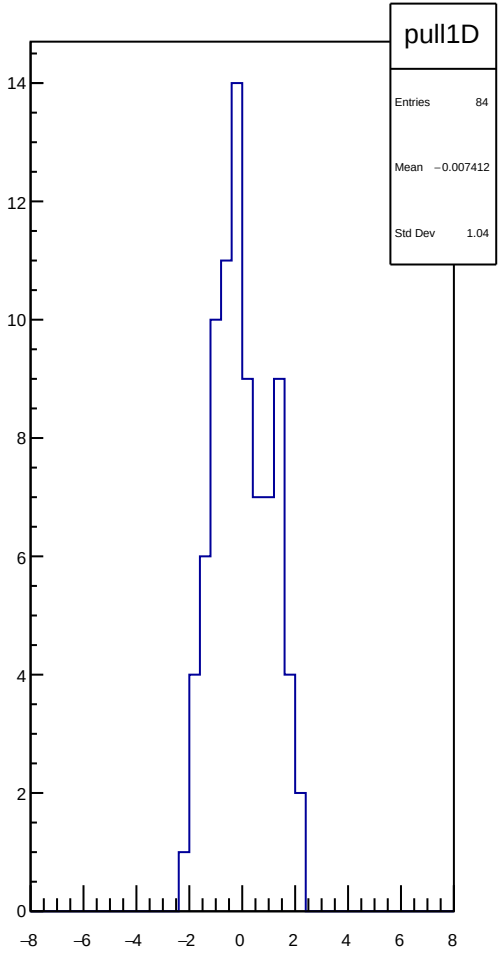

pull1D
Entries 84
Mean −0.007413
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

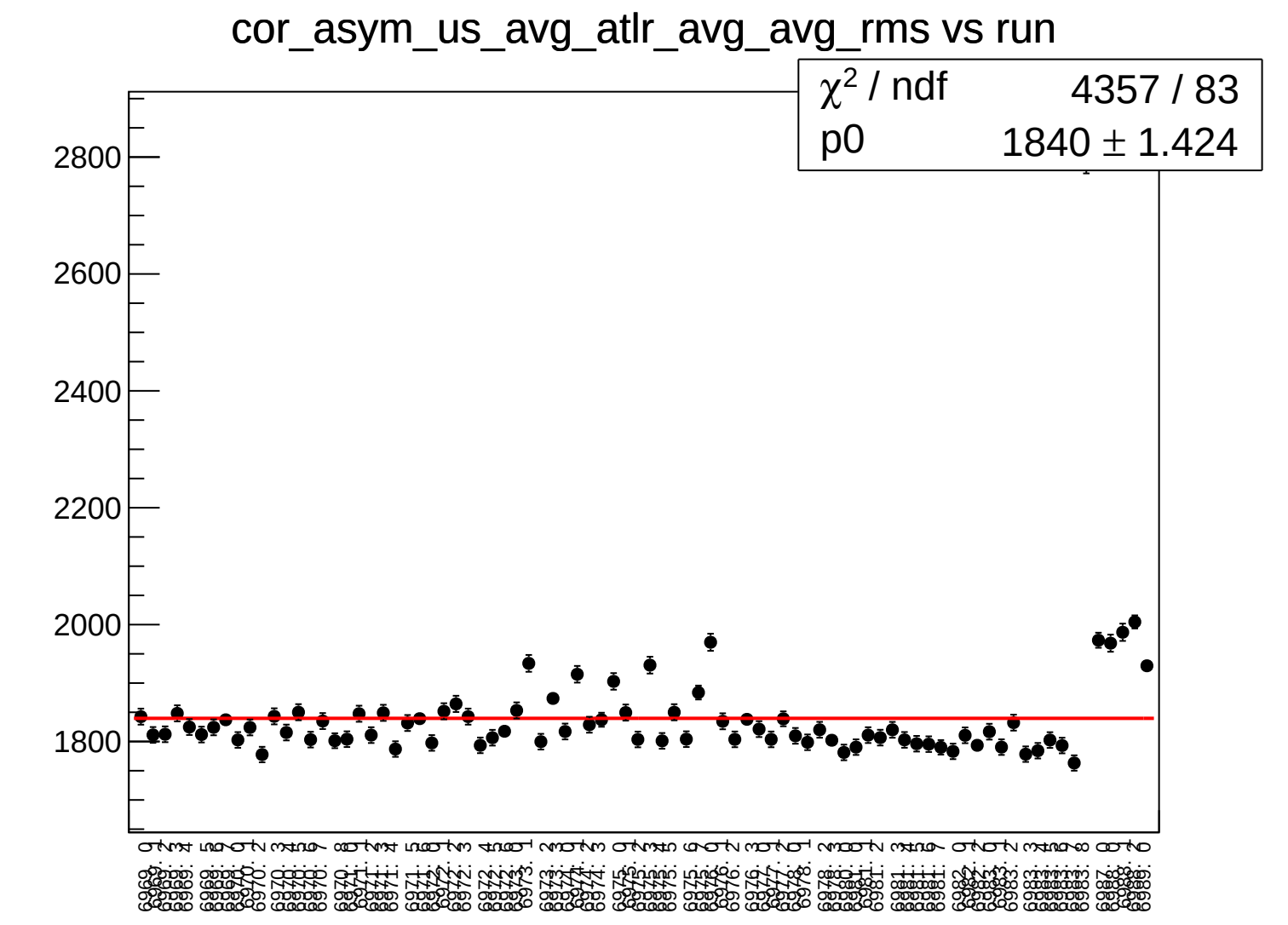

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4357 / 83
p0 1840 ± 1.424
2800
2600
2400
2200
2000
1800

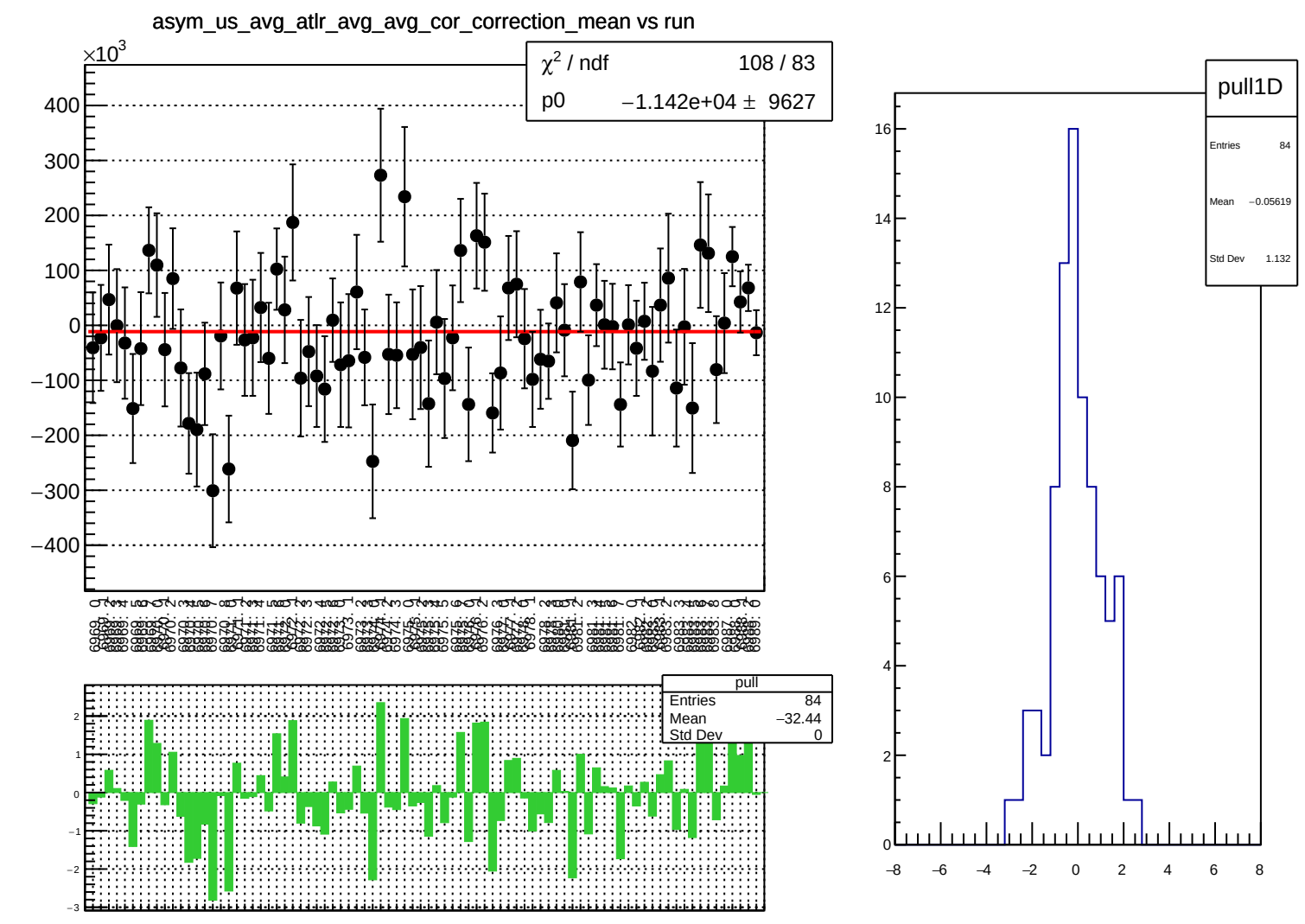

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 108 / 83
p0 −1.142e+04 ± 9627
pull
Entries 84
Mean −32.43
Std Dev 0
pull1D
Entries 84
Mean −0.0562
Std Dev 1.132

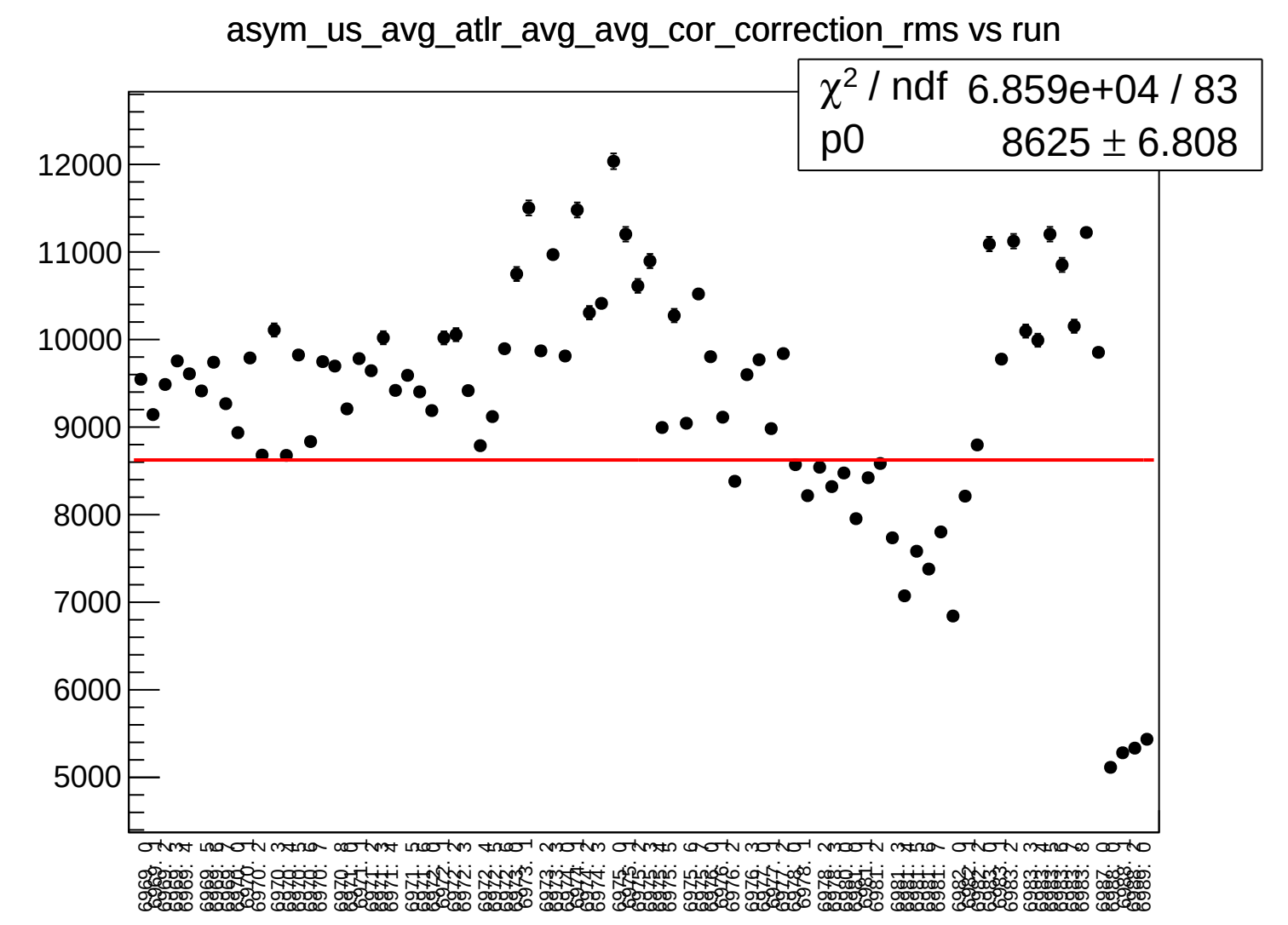

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 6.859e+04 / 83
p0 8624 ± 6.808
12000
11000
10000
9000
8000
7000
6000
5000

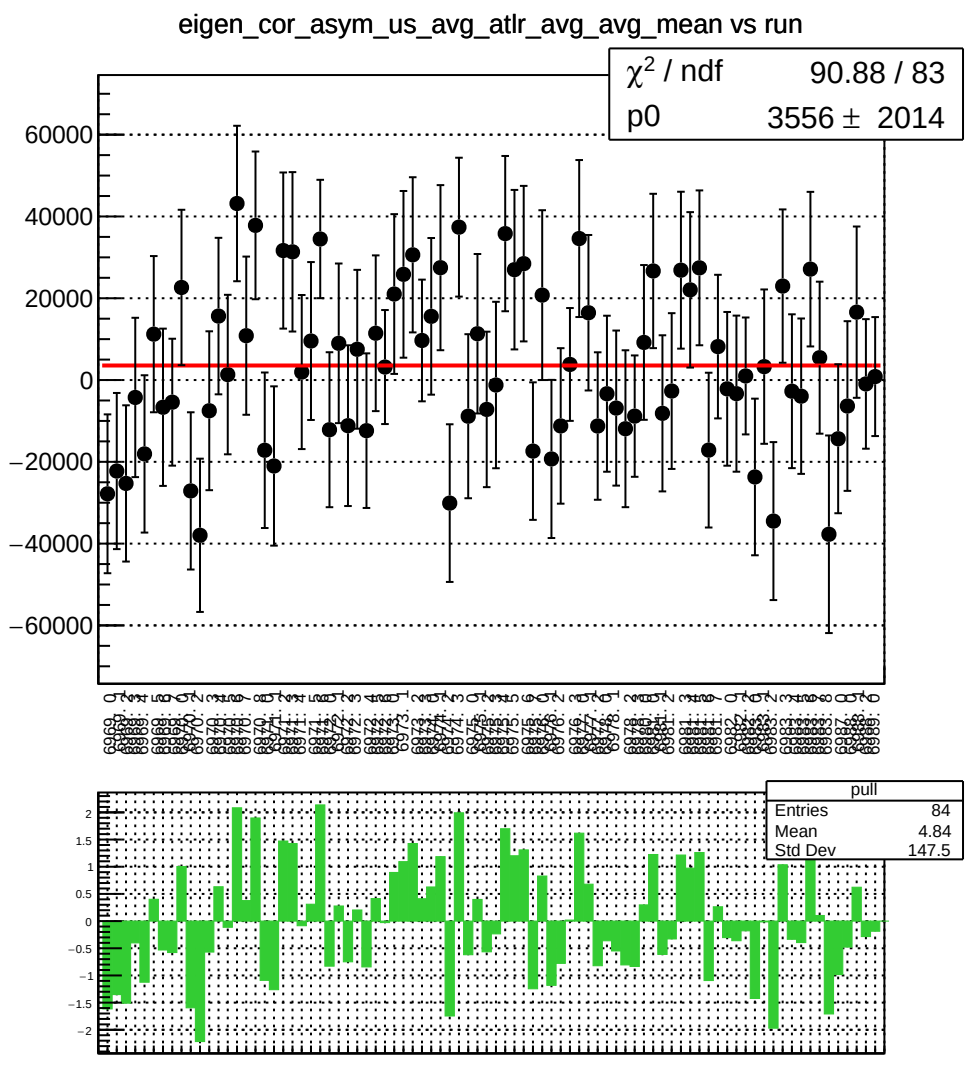

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 90.88 / 83
p0 3556 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 4.84
Std Dev 147.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

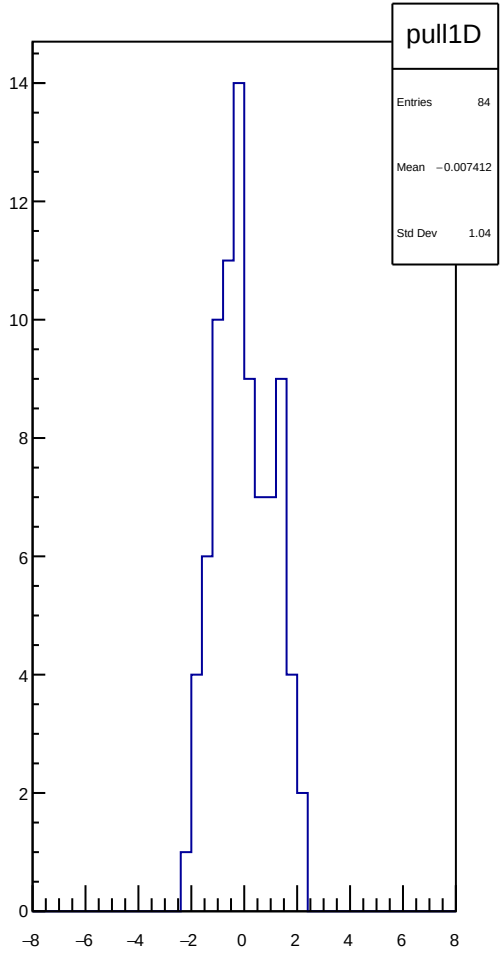

pull1D
Entries 84
Mean −0.007412
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

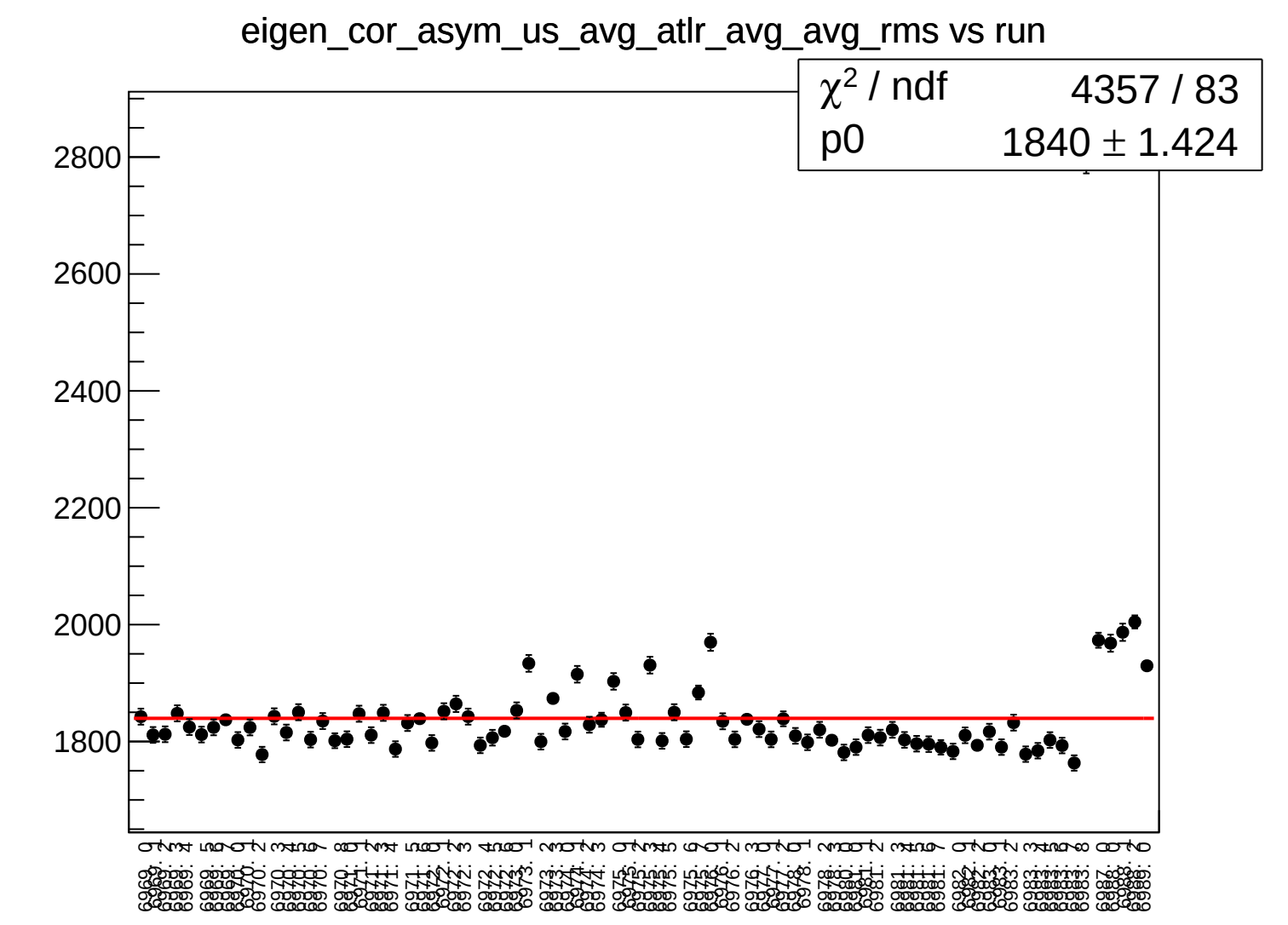

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4357 / 83
p0 1840 ± 1.424
2800
2600
2400
2200
2000
1800

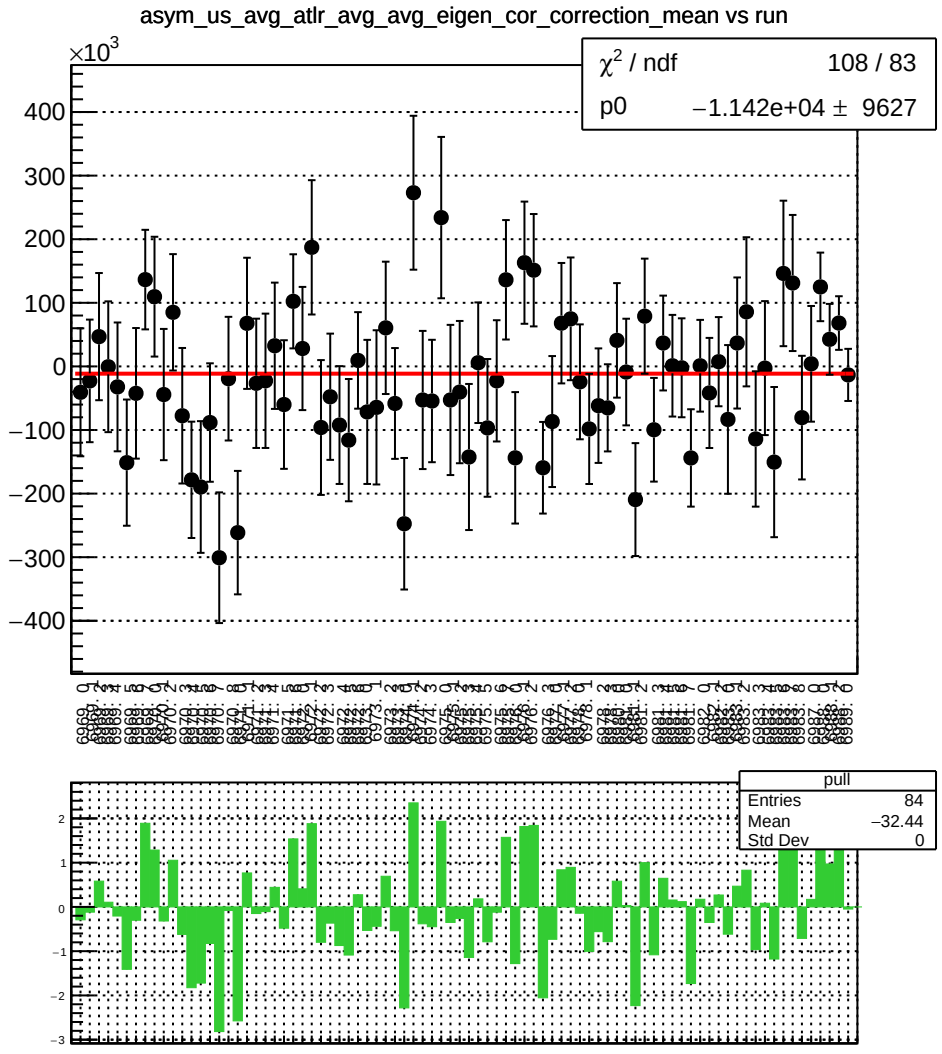

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 108 / 83
p0 −1.142e+04 ± 9627
pull
Entries 84
Mean −32.44
Std Dev 0
pull1D
Entries 84
Mean −0.05619
Std Dev 1.132

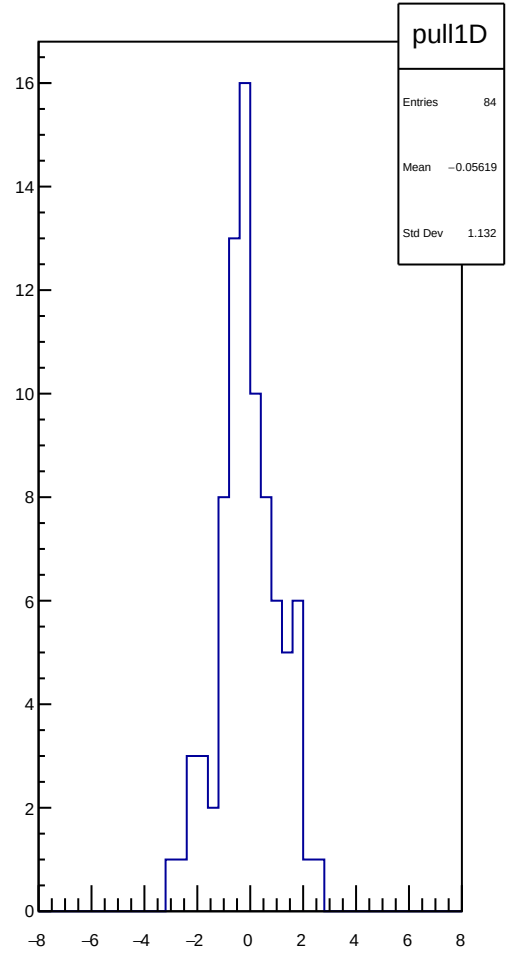

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 6.859e+04 / 83
p0 8625 ± 6.808
12000
11000
10000
9000
8000
7000
6000
5000

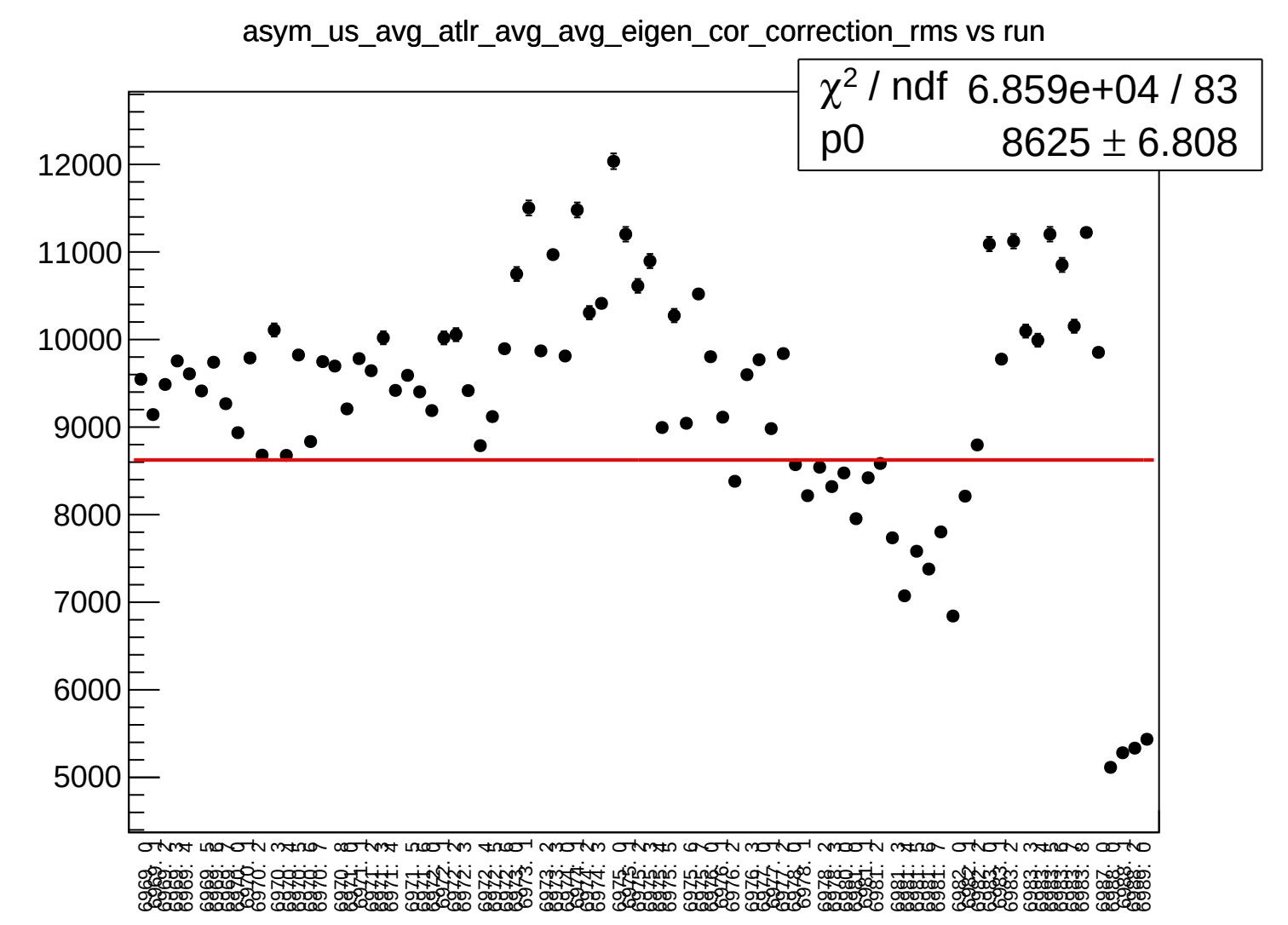

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 90.88 / 83
p0 3556 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 4.84
Std Dev 147.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

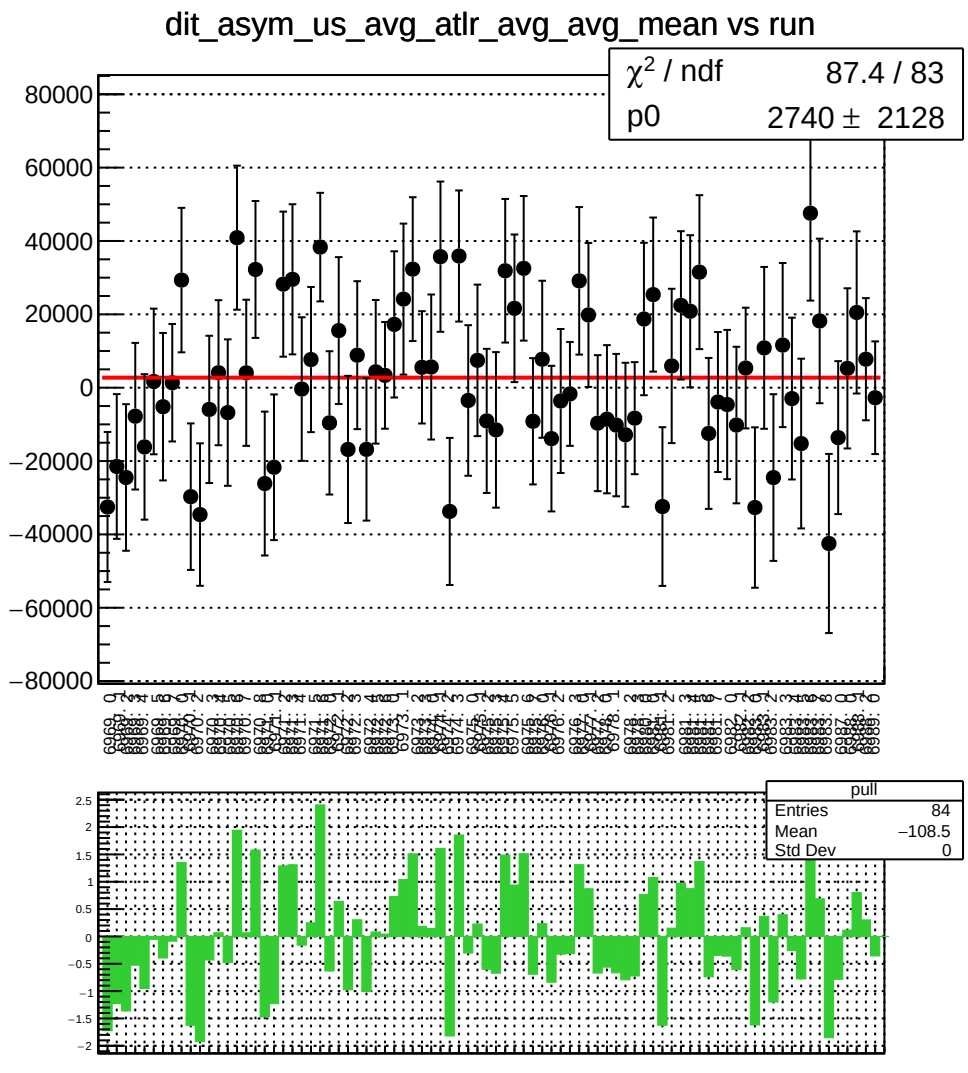

pull1D
Entries 84
Mean −0.007412
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

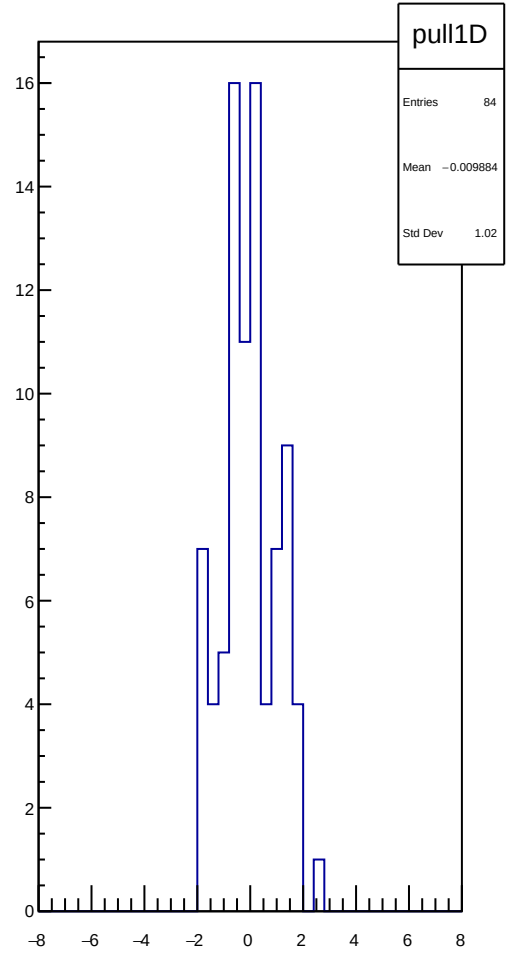

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4357 / 83
p0 1840 ± 1.424
2800
2600
2400
2200
2000
1800

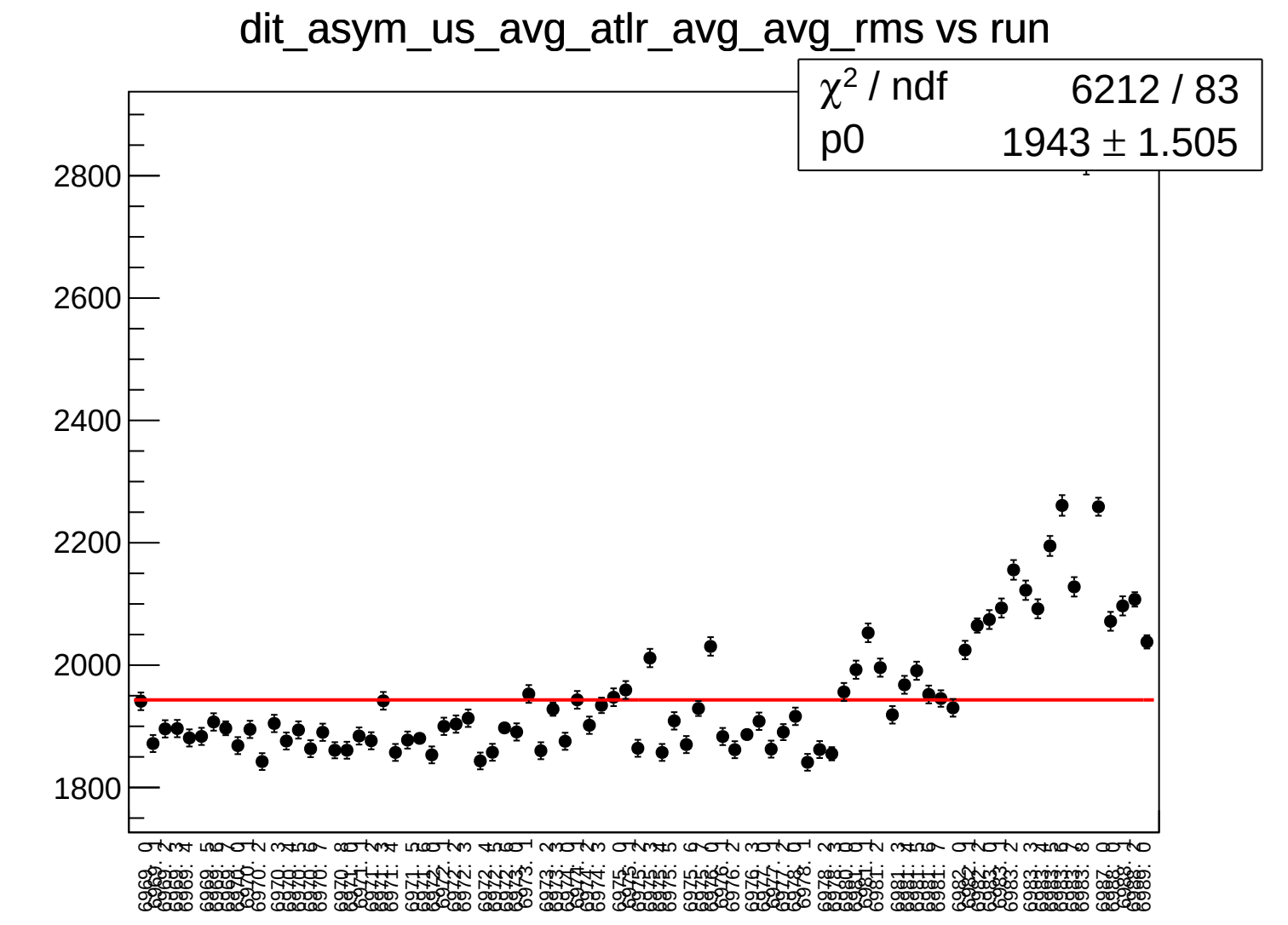

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108 / 83
p0 −1.142e+04 ± 9627
pull
Entries 84
Mean −32.44
Std Dev 0

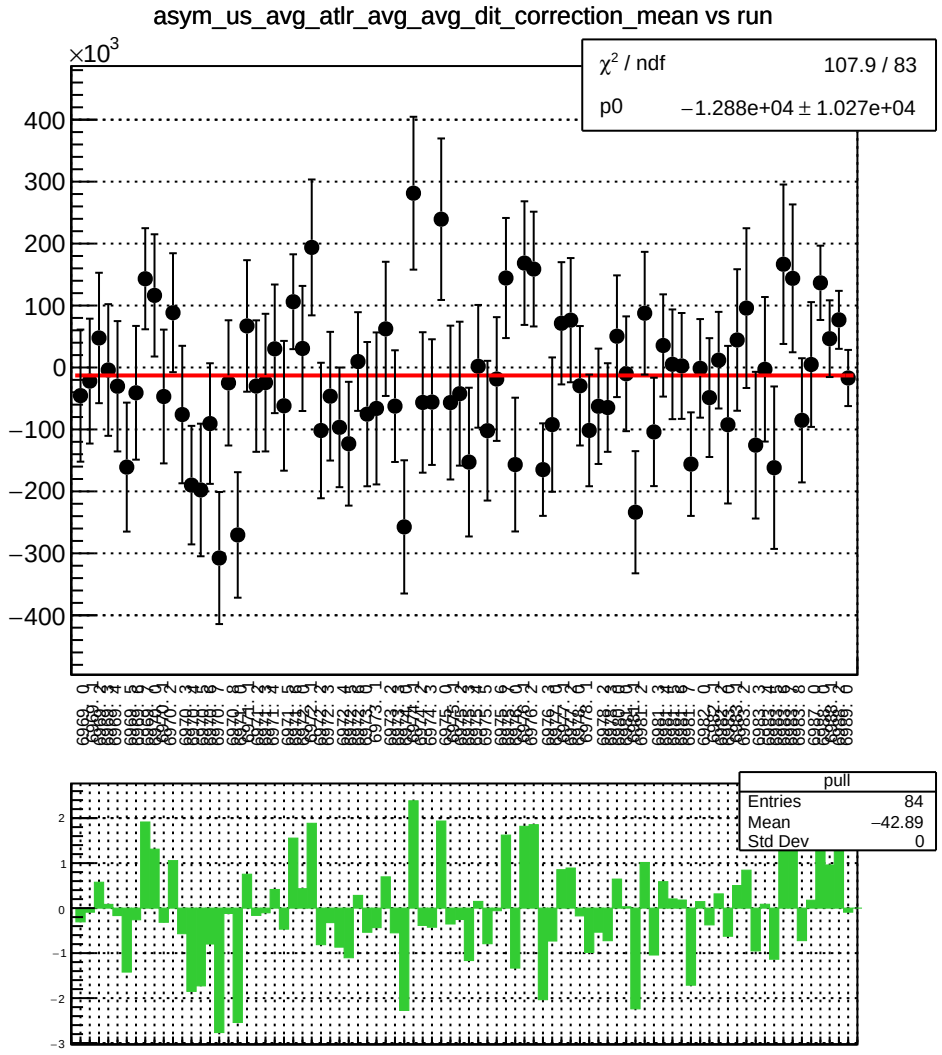

pull1D
Entries 84
Mean −0.05619
Std Dev 1.132

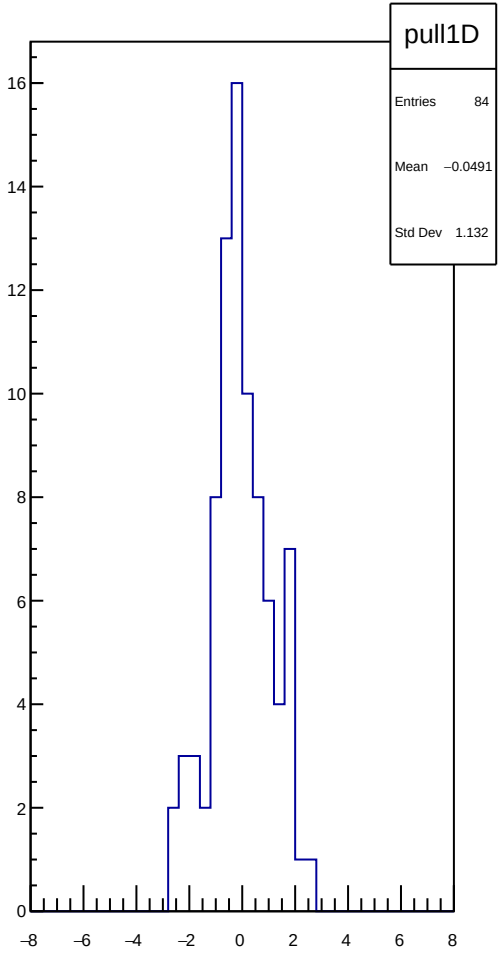

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.859e+04 / 83
p0 8625 ± 6.808
12000
11000
10000
9000
8000
7000
6000
5000

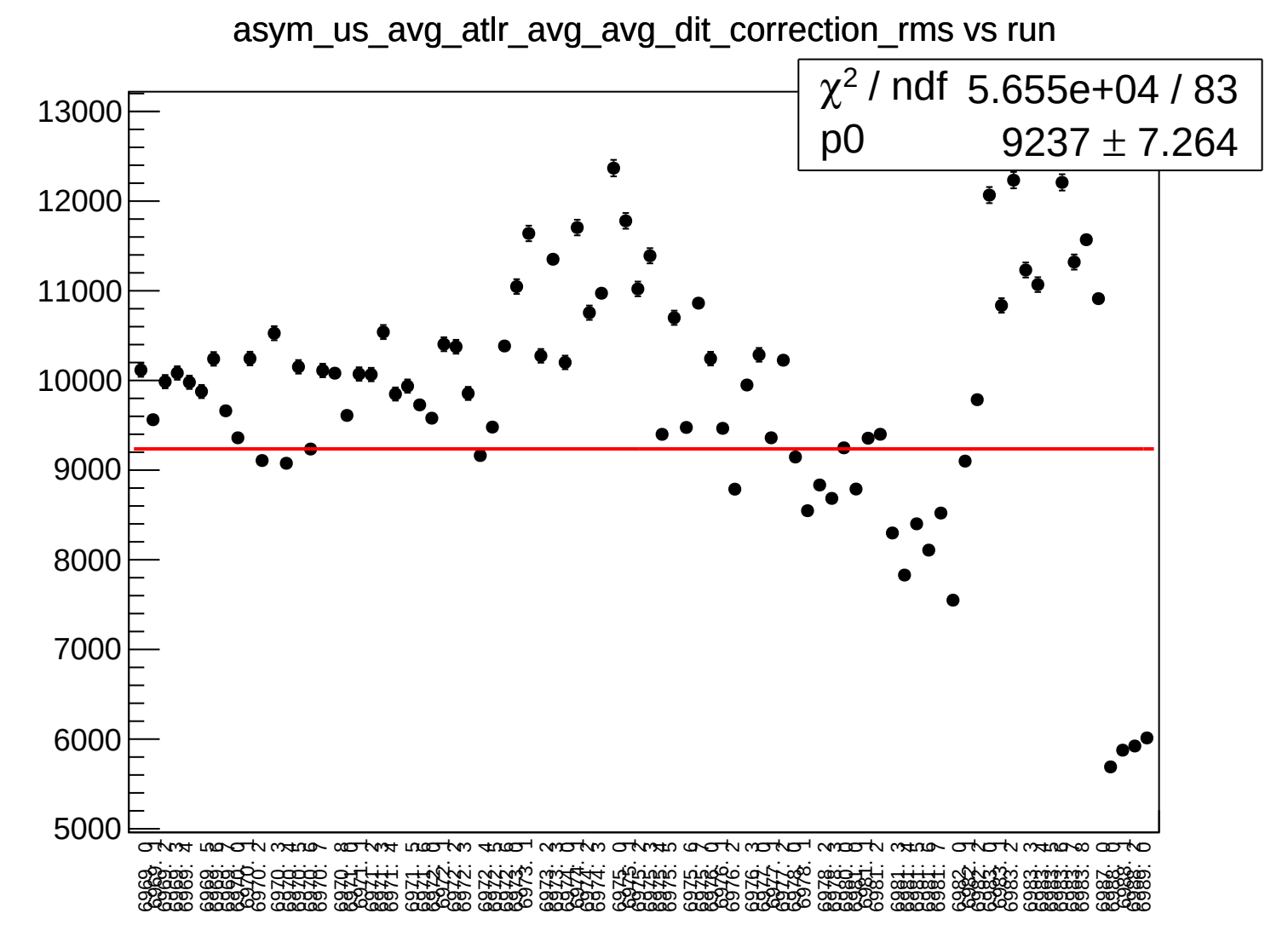

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 87.4 / 83
p0 2740 ± 2128
pull
Entries 84
Mean −108.5
Std Dev 0

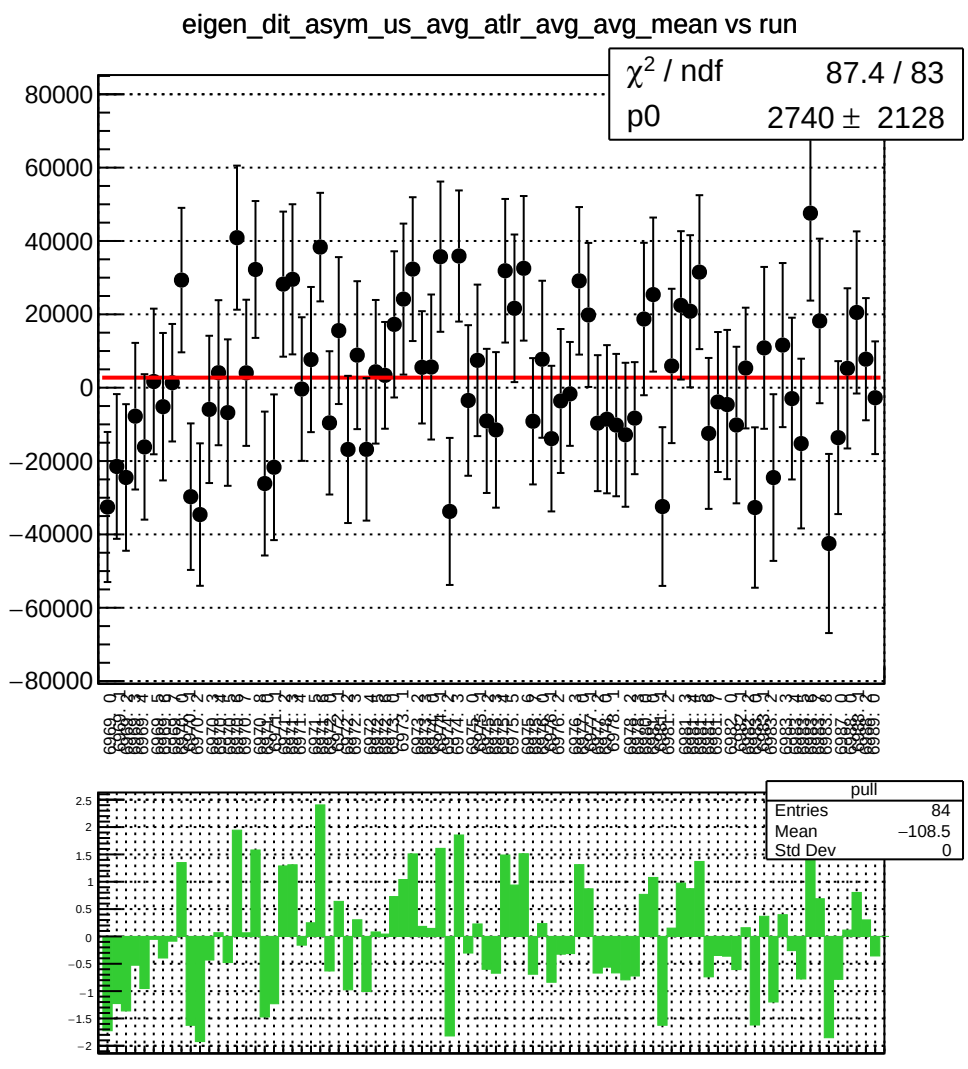

pull1D
Entries 84
Mean −0.009884
Std Dev 1.02

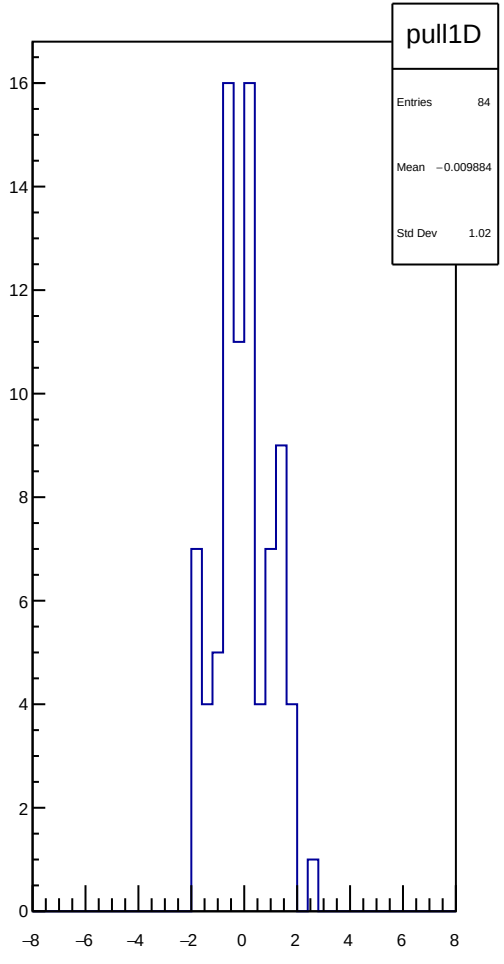

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 6212 / 83
p0 1943 ± 1.505
2800
2600
2400
2200
2000
1800

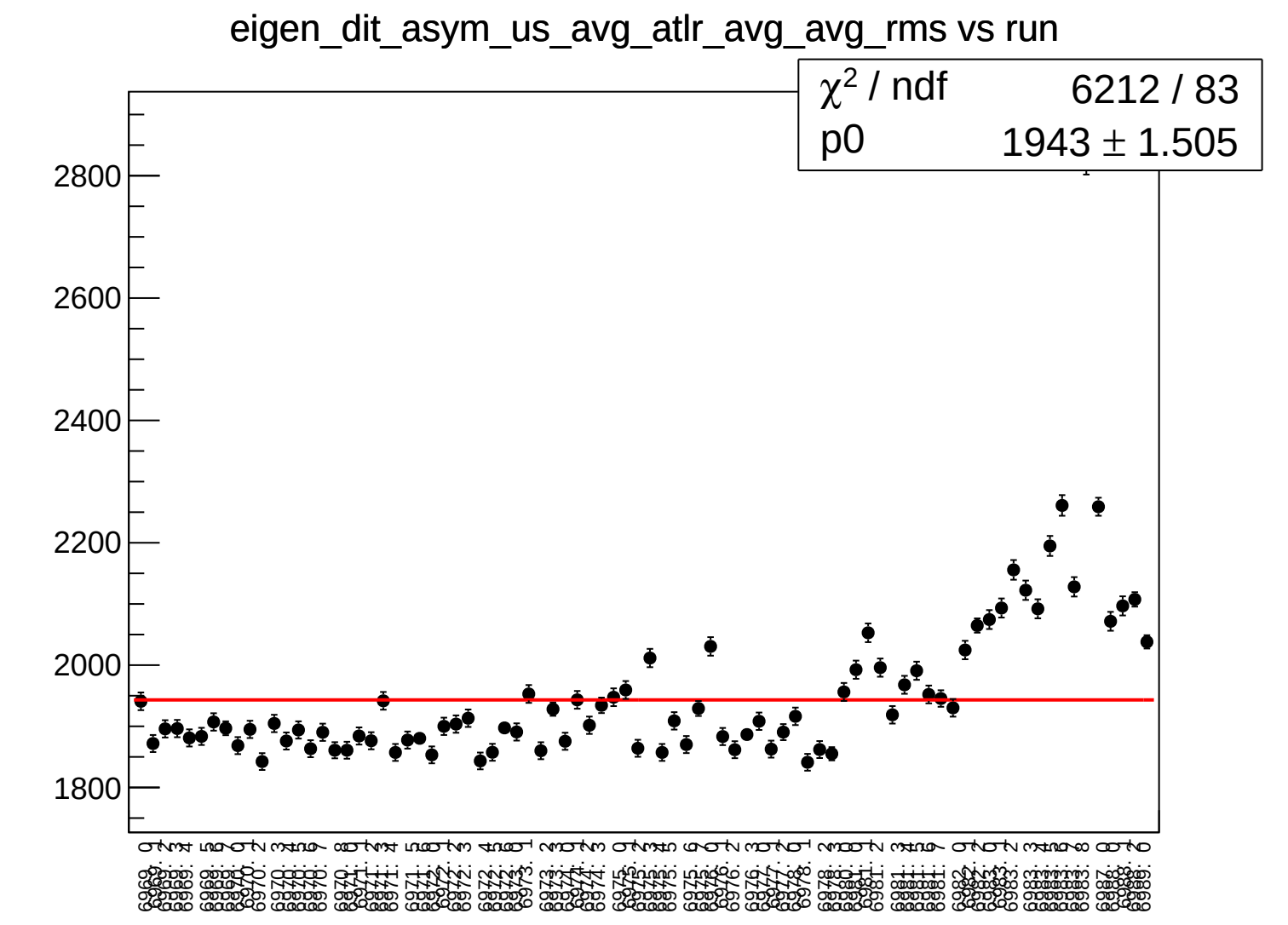

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.9 / 83
p0 −1.288e+04 ± 1.027e+04
400
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean −42.89
Std Dev 0
2
1
0
−1
−2
−3

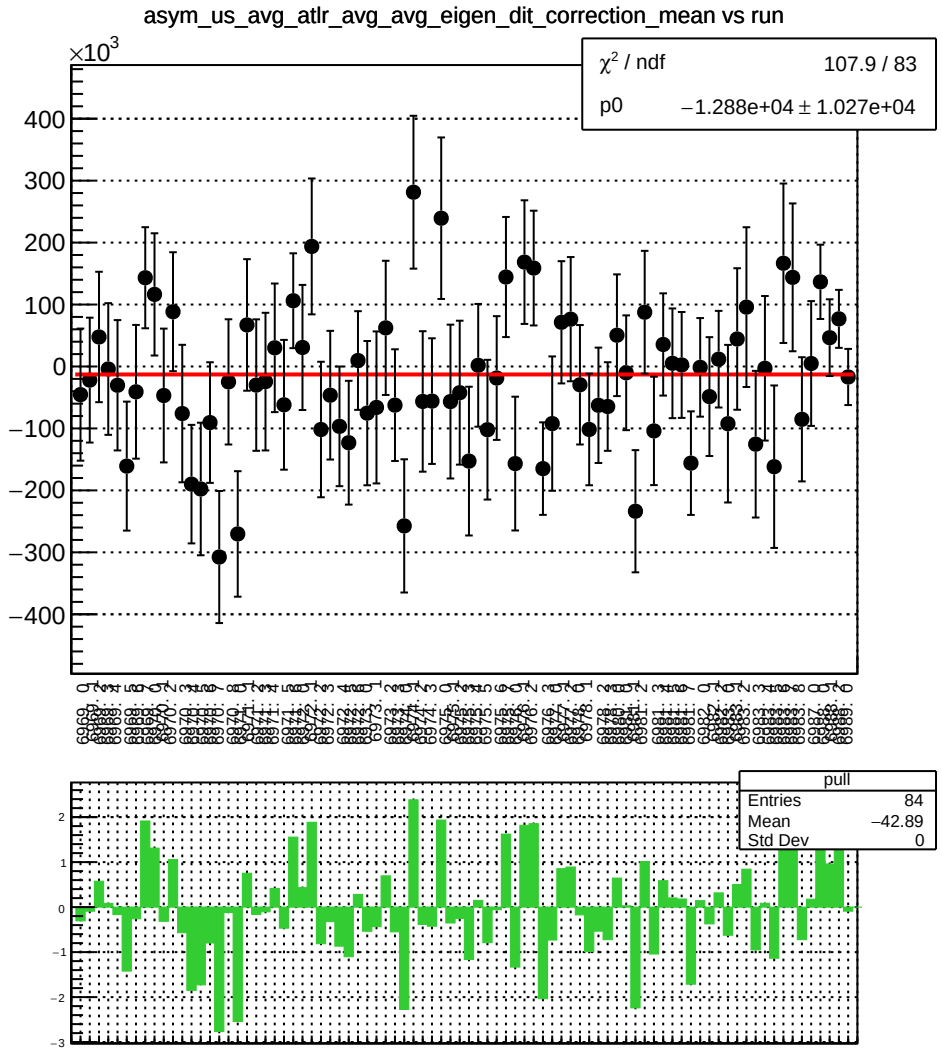

pull1D
Entries 84
Mean −0.0491
Std Dev 1.132
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

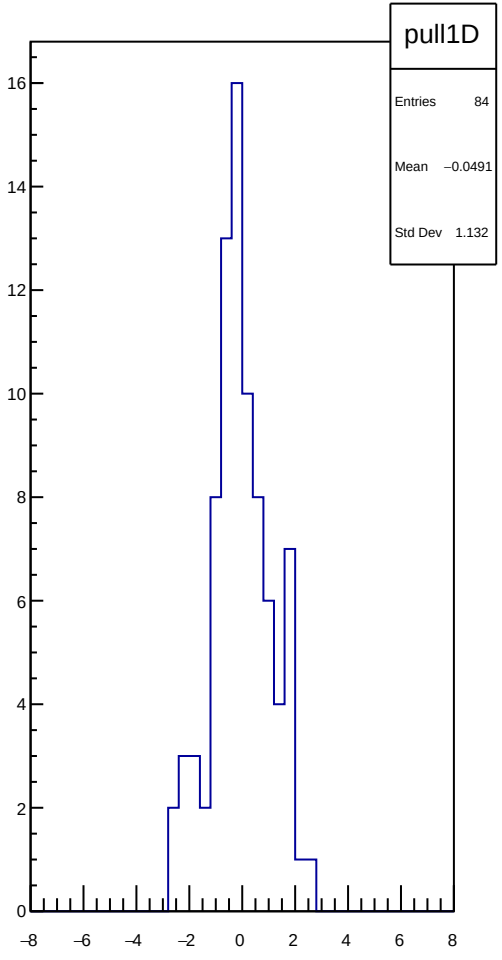

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 5.655e+04 / 83
p0 9237 ± 7.264
13000
12000
11000
10000
9000
8000
7000
6000
5000

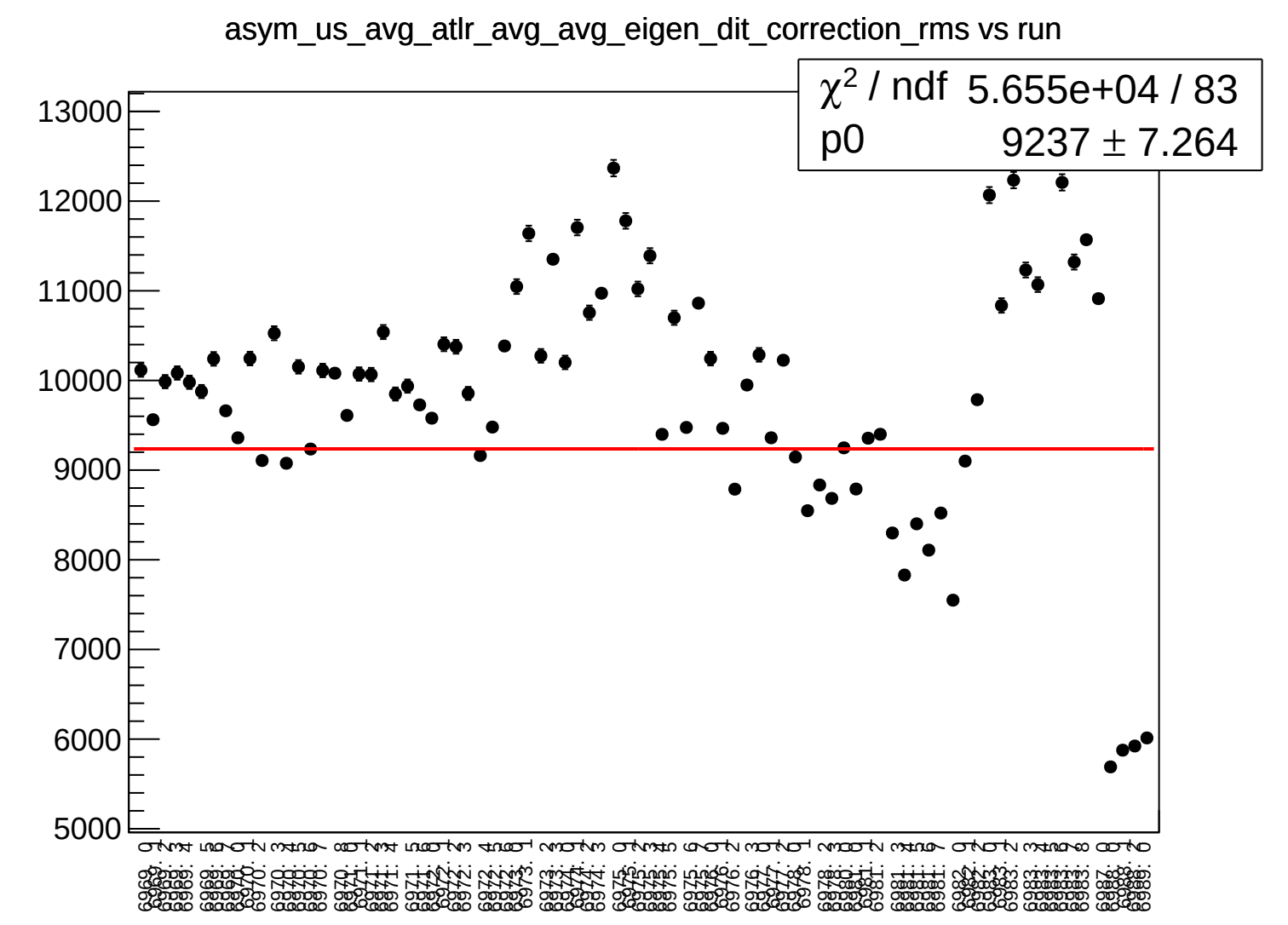

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 87.4 / 83
p0 2740 ± 2128
pull
Entries 84
Mean −108.5
Std Dev 0

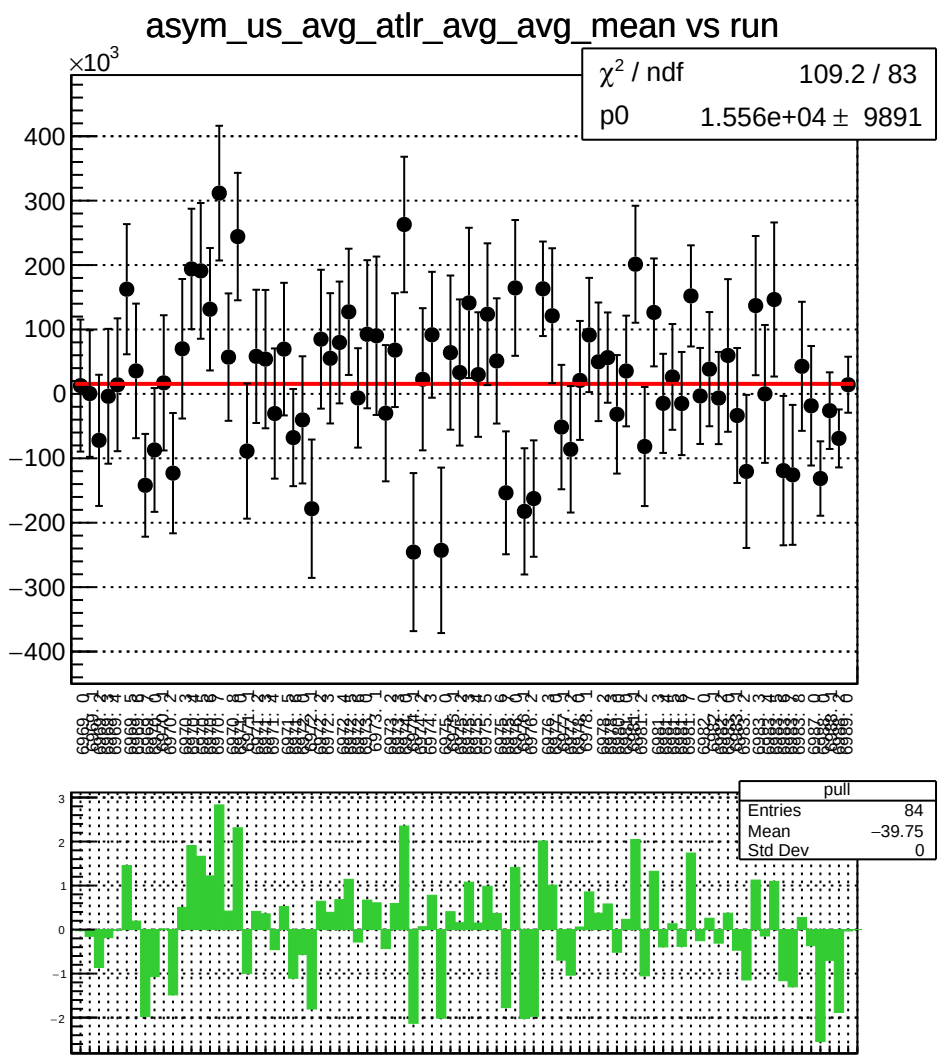

pull1D
Entries 84
Mean −0.009884
Std Dev 1.02

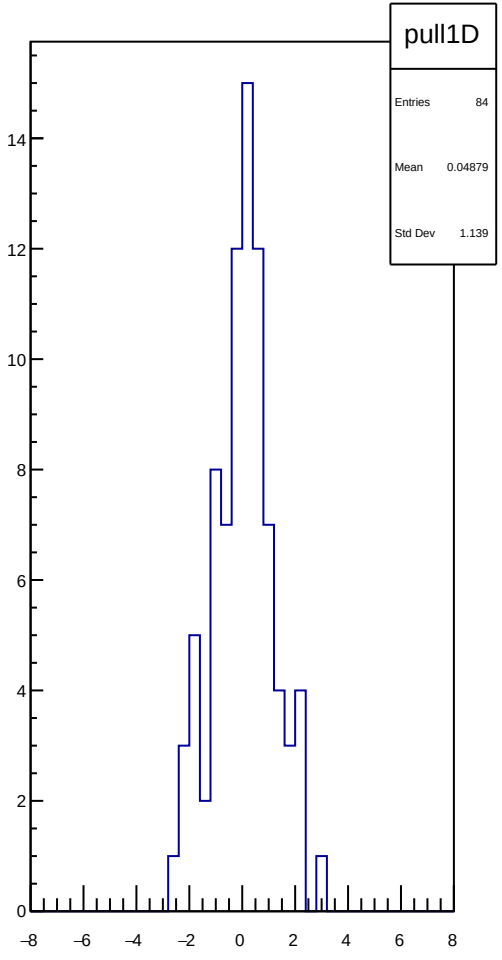

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 6212 / 83
p0 1943 ± 1.505
2800
2600
2400
2200
2000
1800

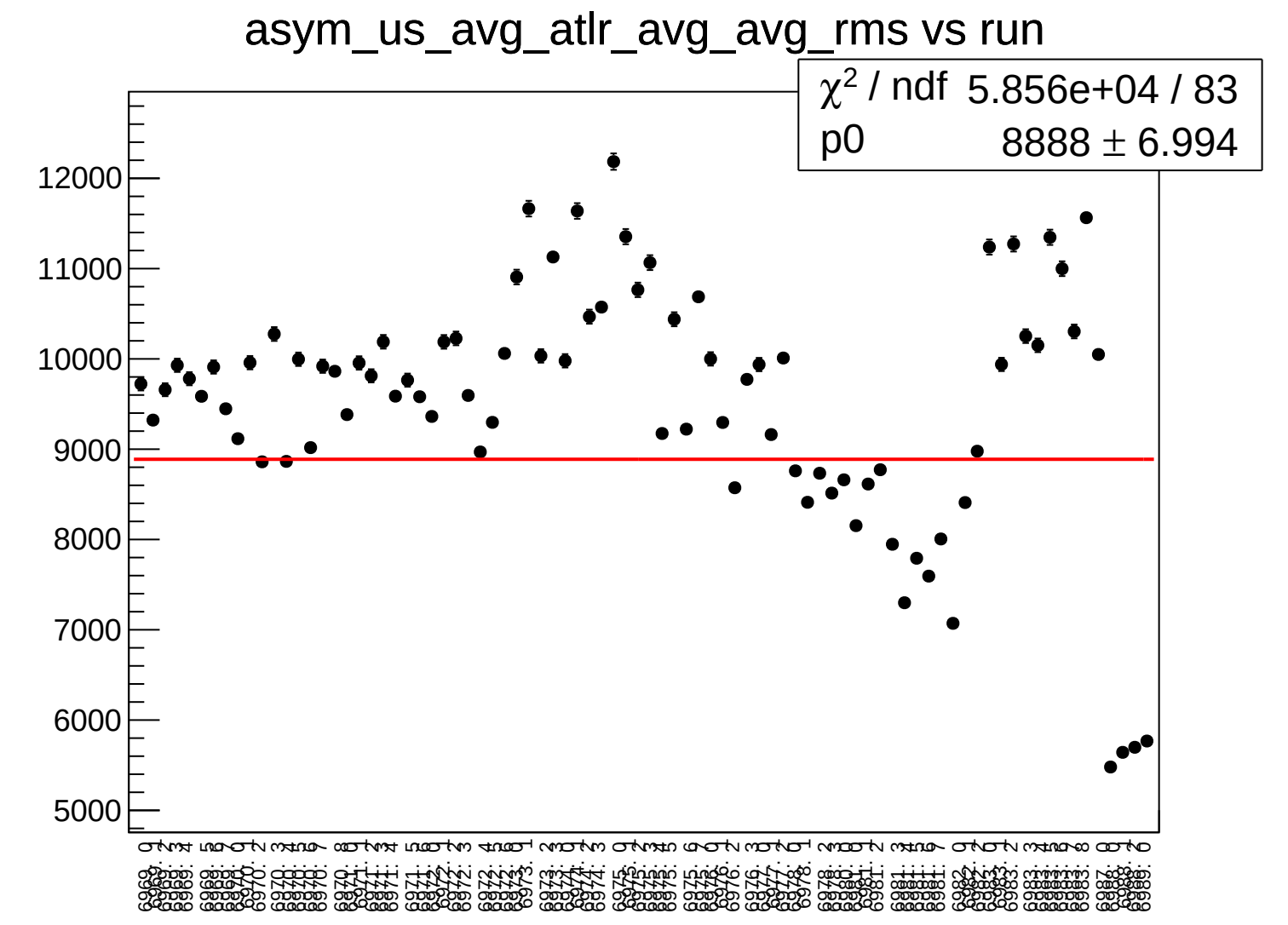

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.9 / 83
p0 −1.288e+04 ± 1.027e+04
pull
Entries 84
Mean −42.89
Std Dev 0

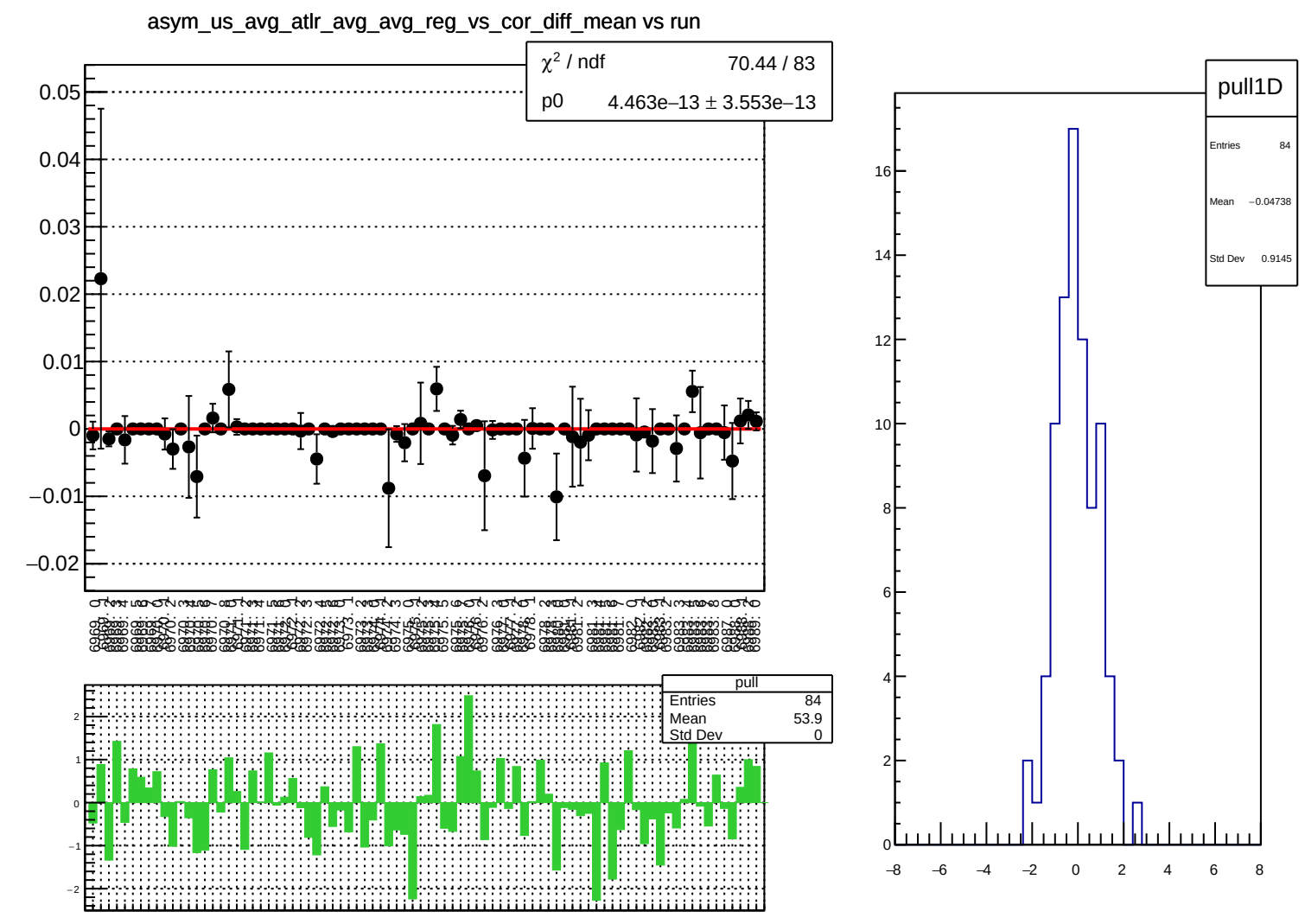

pull1D
Entries 84
Mean −0.0491
Std Dev 1.132

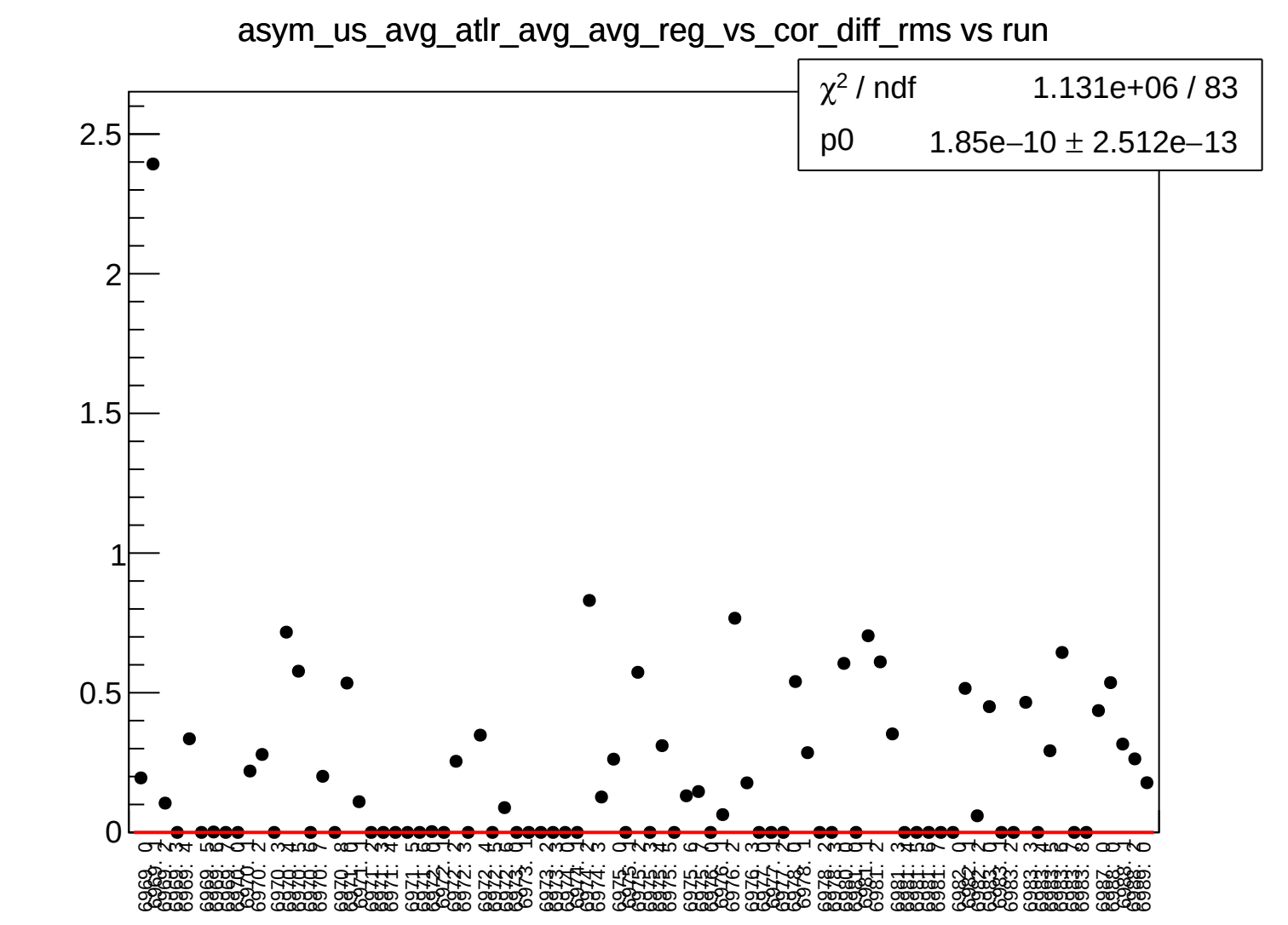

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.655e+04 / 83
p0 9237 ± 7.264
13000
12000
11000
10000
9000
8000
7000
6000
5000

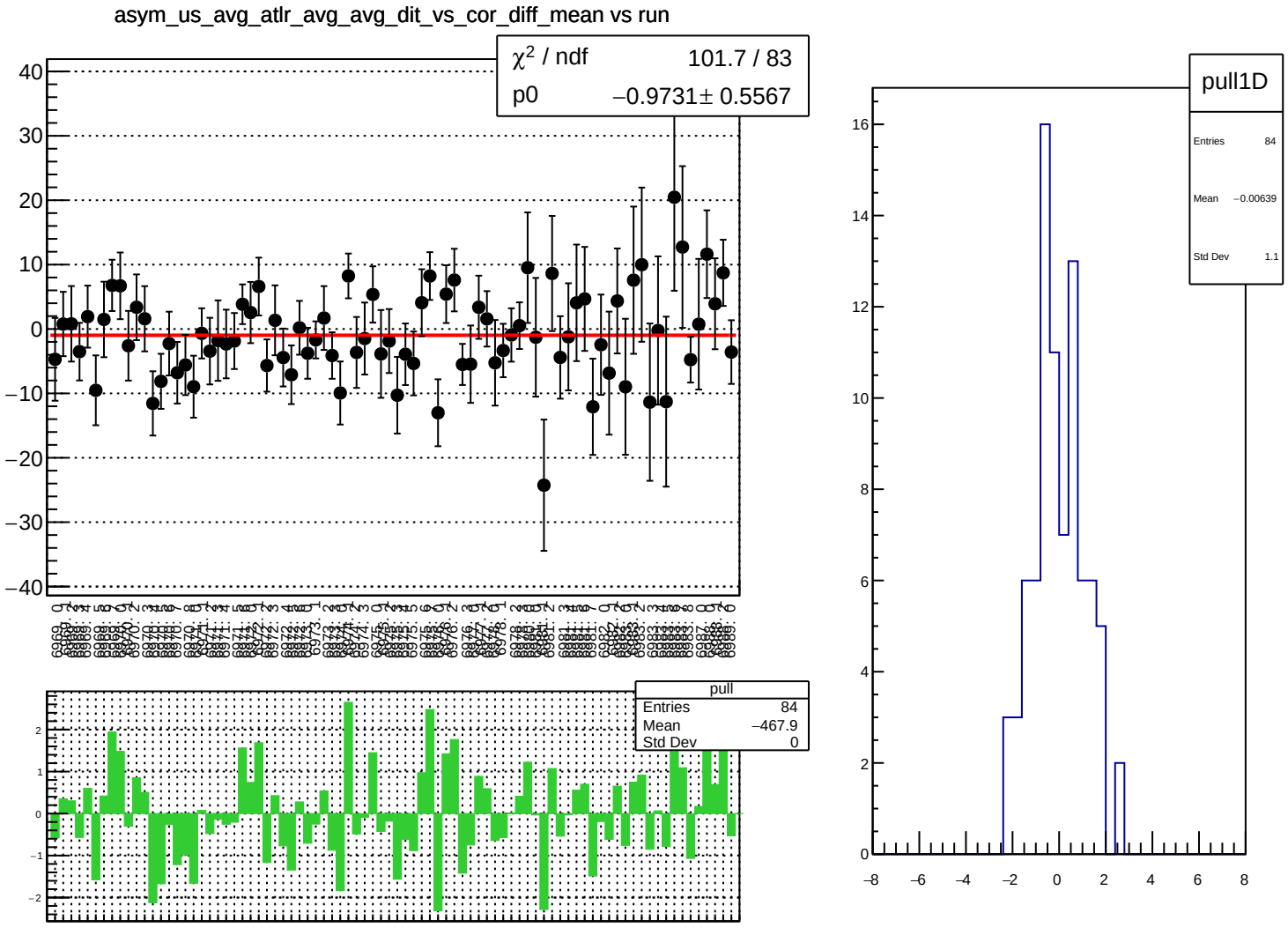

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 109.2 / 83
p0 1.556e+04 ± 9891
400
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean −39.75
Std Dev 0
3
2
1
0
−1
−2

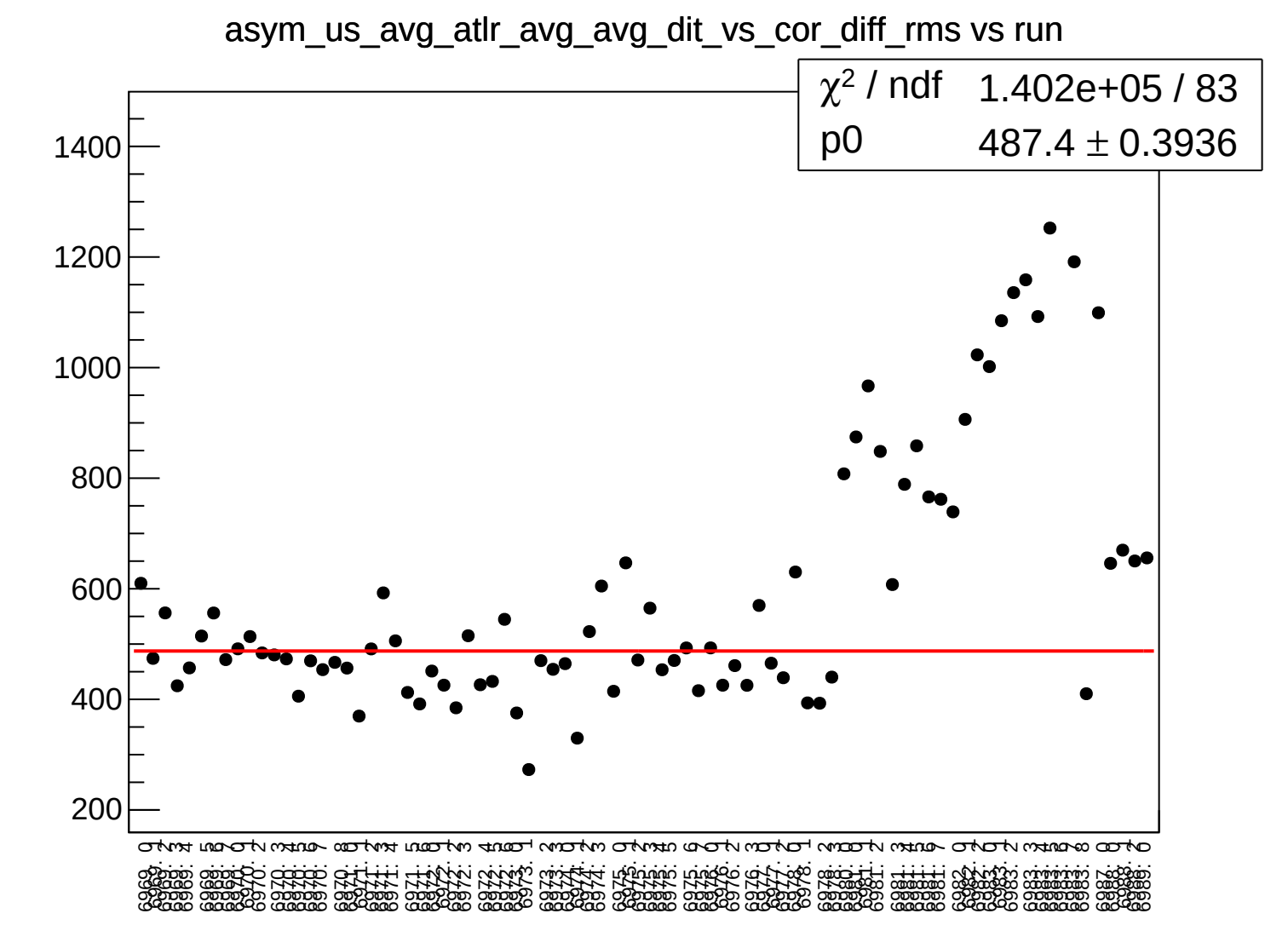

pull1D
Entries 84
Mean 0.04879
Std Dev 1.139
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 5.856e+04 / 83
p0 8888 ± 6.994
12000
11000
10000
9000
8000
7000
6000
5000

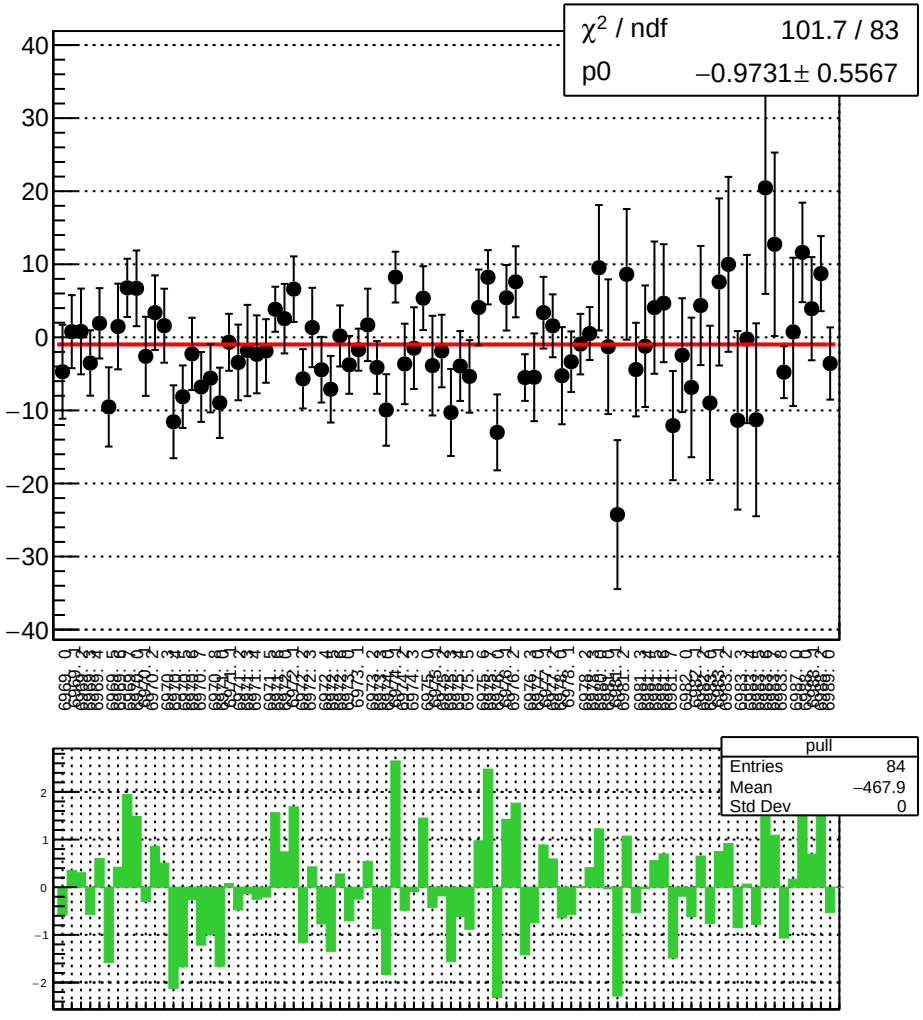

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.44 / 83
p0 4.463e−13 ± 3.553e−13
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 53.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.04738
Std Dev 0.9145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

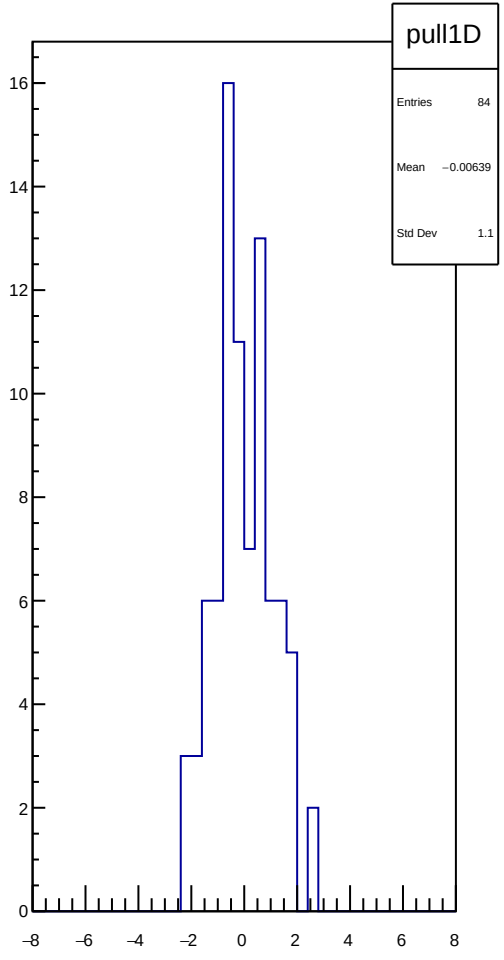

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.131e+06 / 83
p0 1.85e−10 ± 2.512e−13
2.5
2
1.5
1
0.5
0

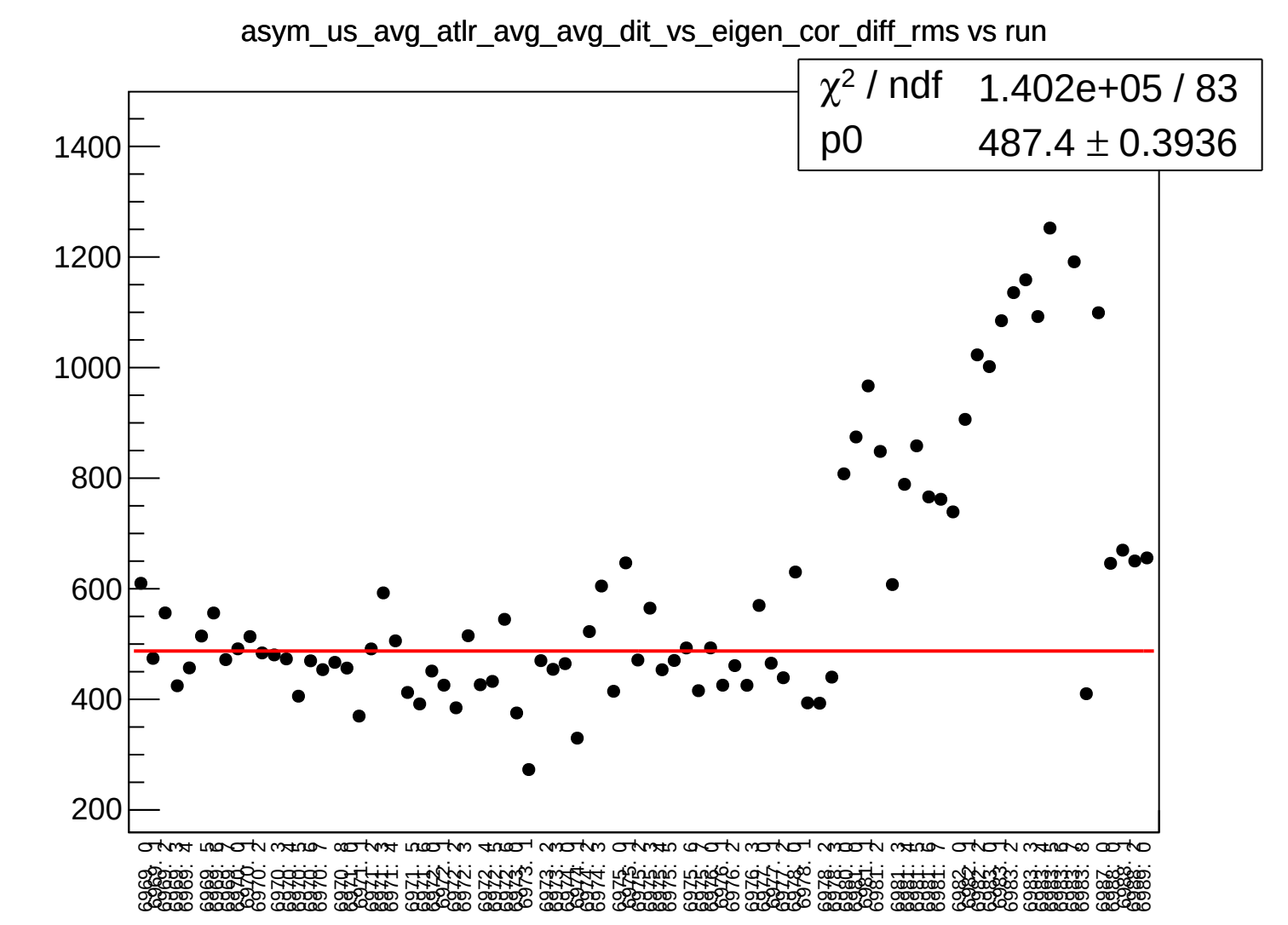

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 83
p0 −0.9731± 0.5567
pull
Entries 84
Mean −467.9
Std Dev 0
pull1D
Entries 84
Mean −0.00639
Std Dev 1.1

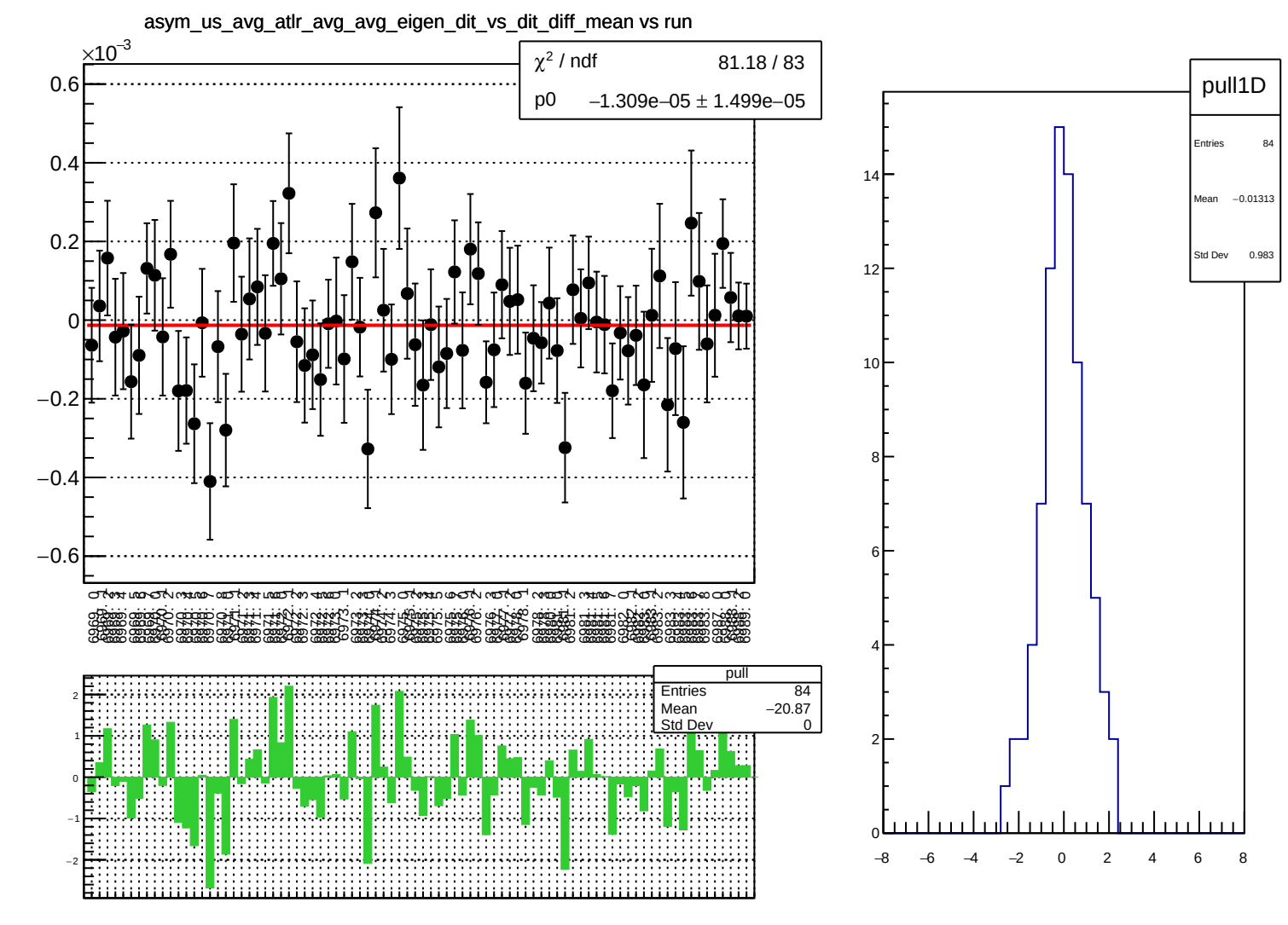

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.402e+05 / 83
p0 487.4 ± 0.3936
1400
1200
1000
800
600
400
200

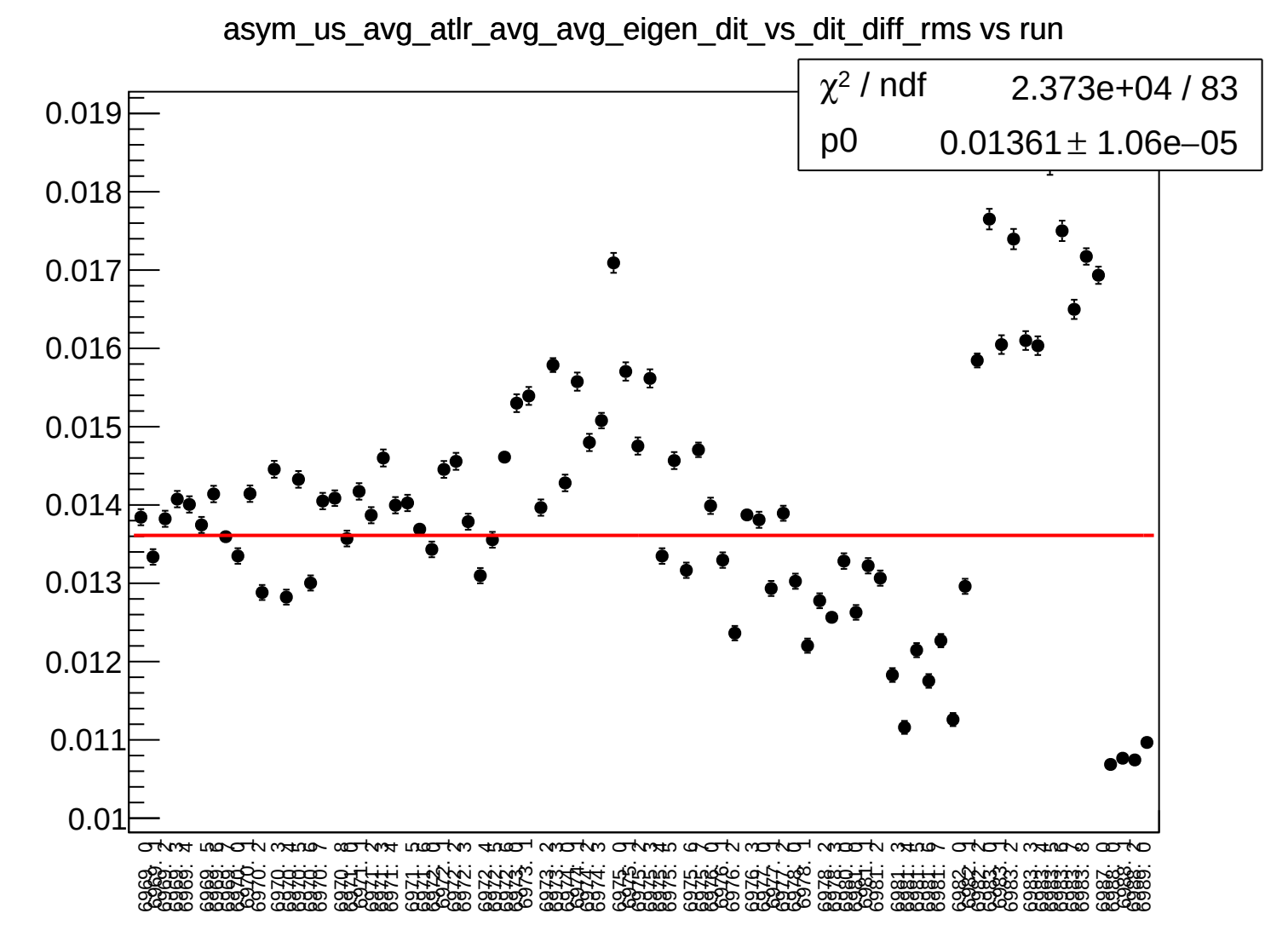
asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run

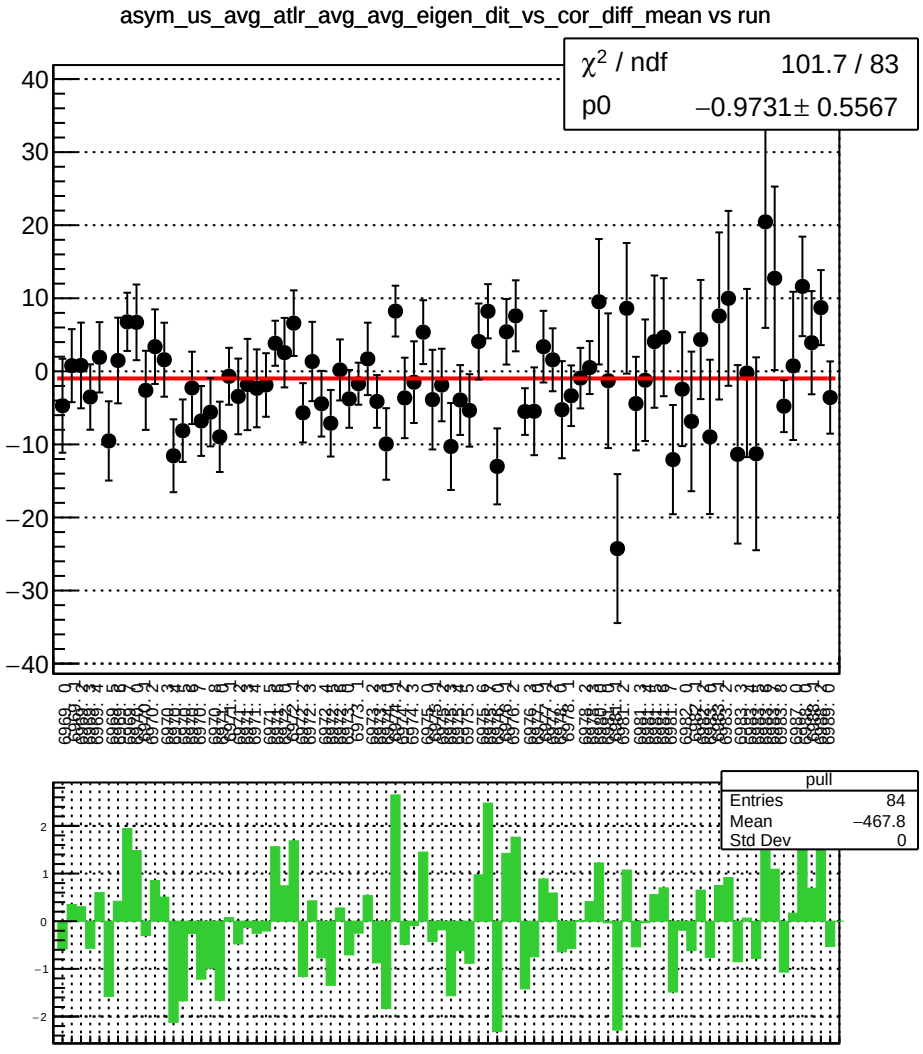


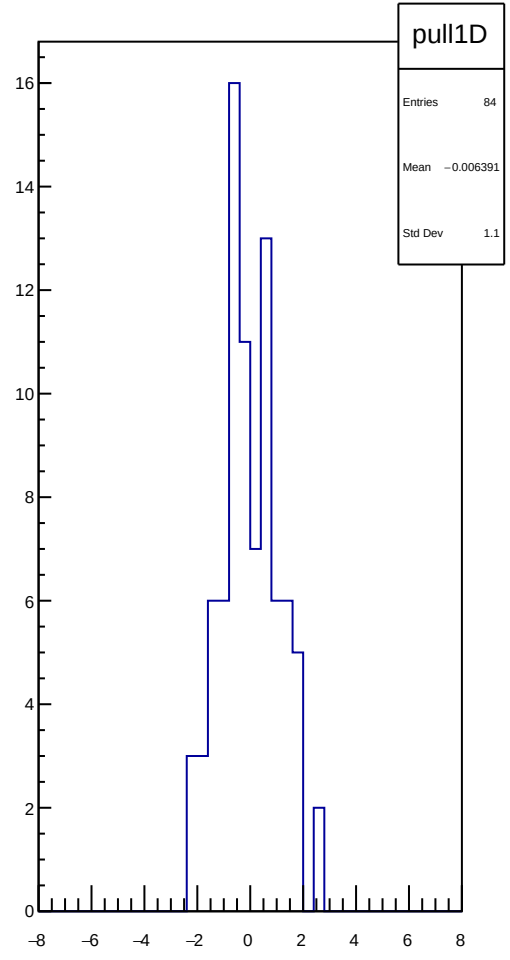


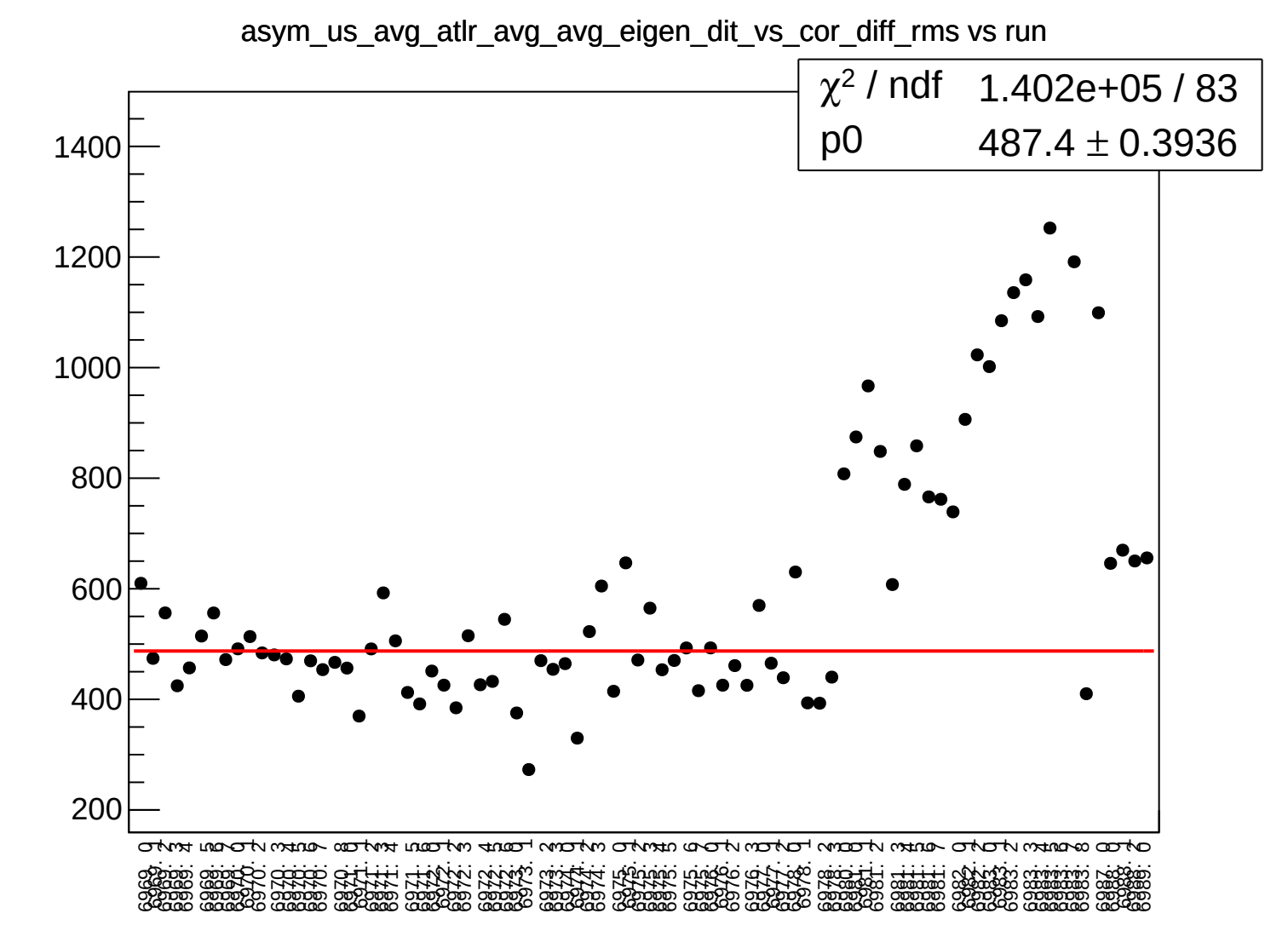

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.402e+05 / 83
p0 487.4 ± 0.3936
1400
1200
1000
800
600
400
200


asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 81.18 / 83
p0 −1.309e−05 ± 1.499e−05
pull
Entries 84
Mean −20.87
Std Dev 0
pull1D
Entries 84
Mean −0.01313
Std Dev 0.983

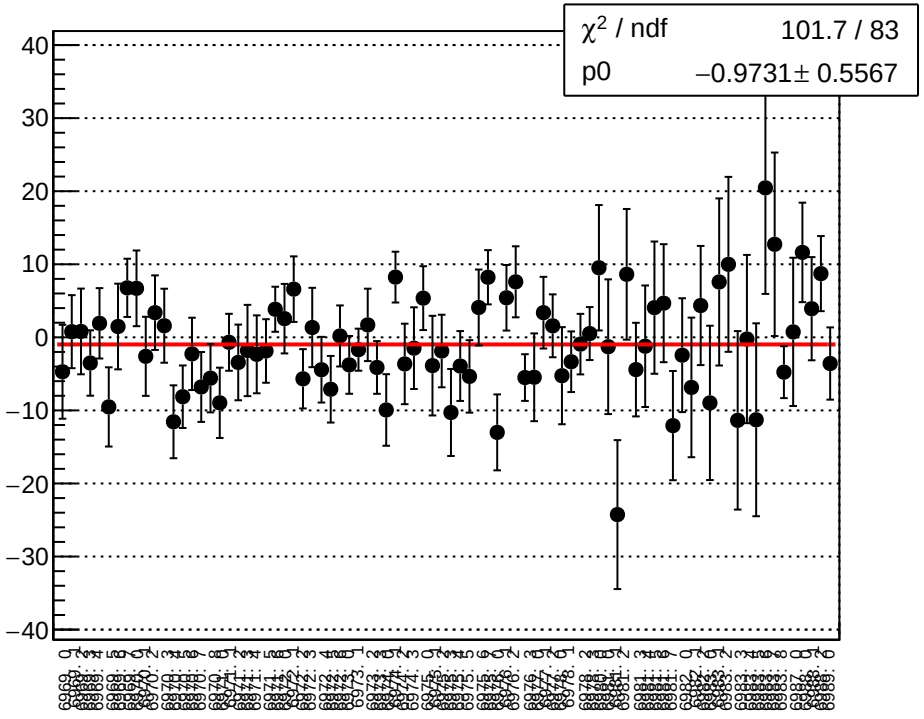

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.373e+04 / 83
p0 0.01361 ± 1.06e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

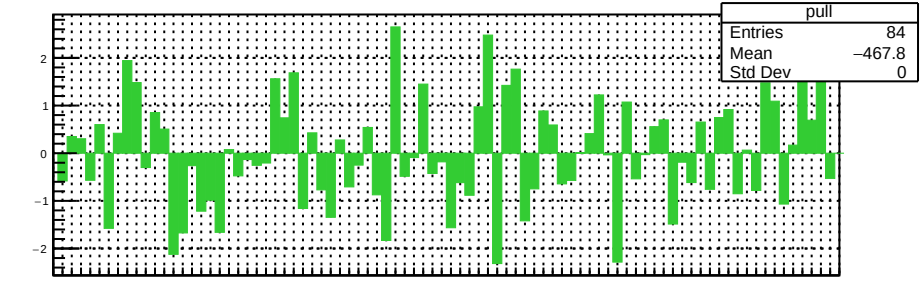

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 83
p0 −0.9731± 0.5567
pull
Entries 84
Mean −467.8
Std Dev 0

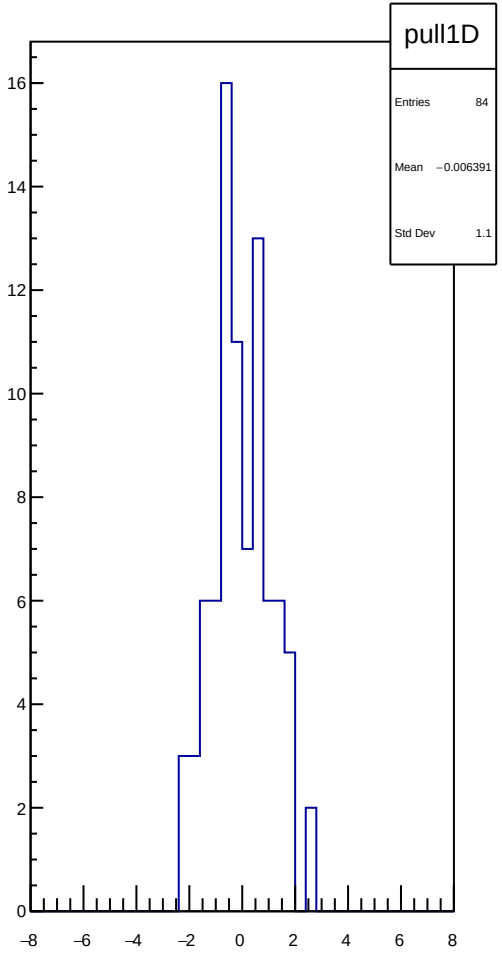

pull1D
Entries 84
Mean −0.006391
Std Dev 1.1

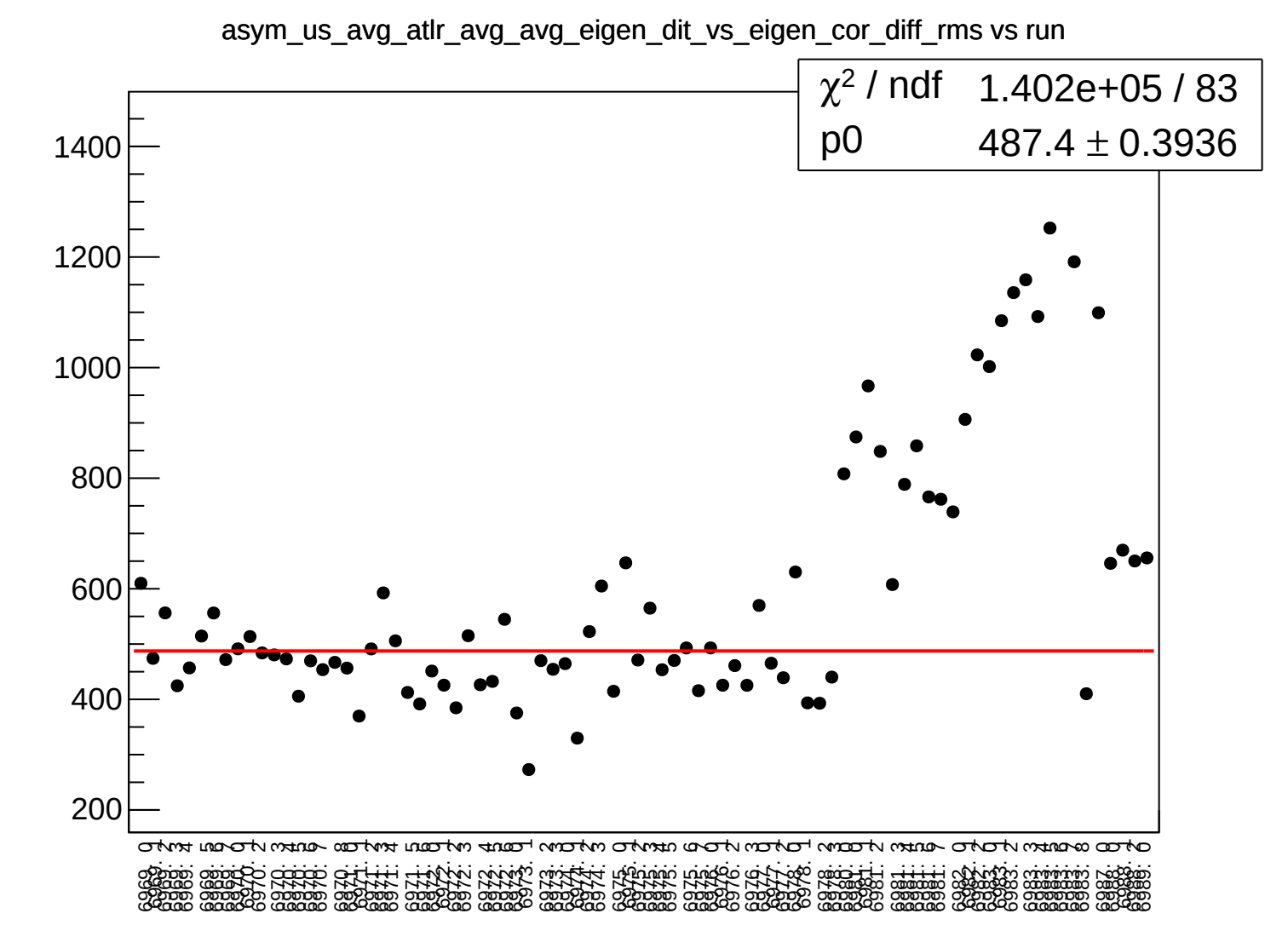

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.402e+05 / 83
p0 487.4 ± 0.3936
1400
1200
1000
800
600
400
200

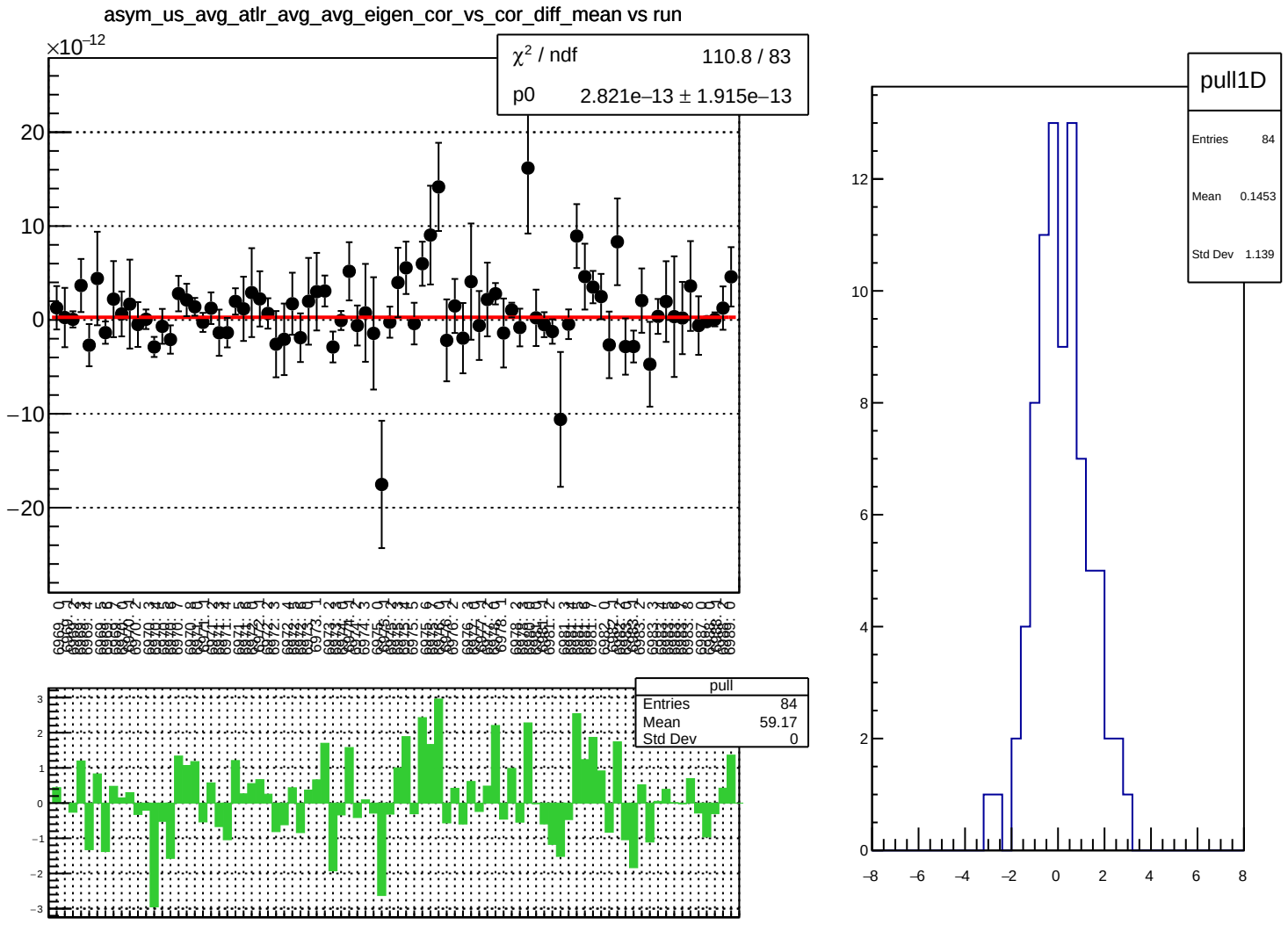
asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

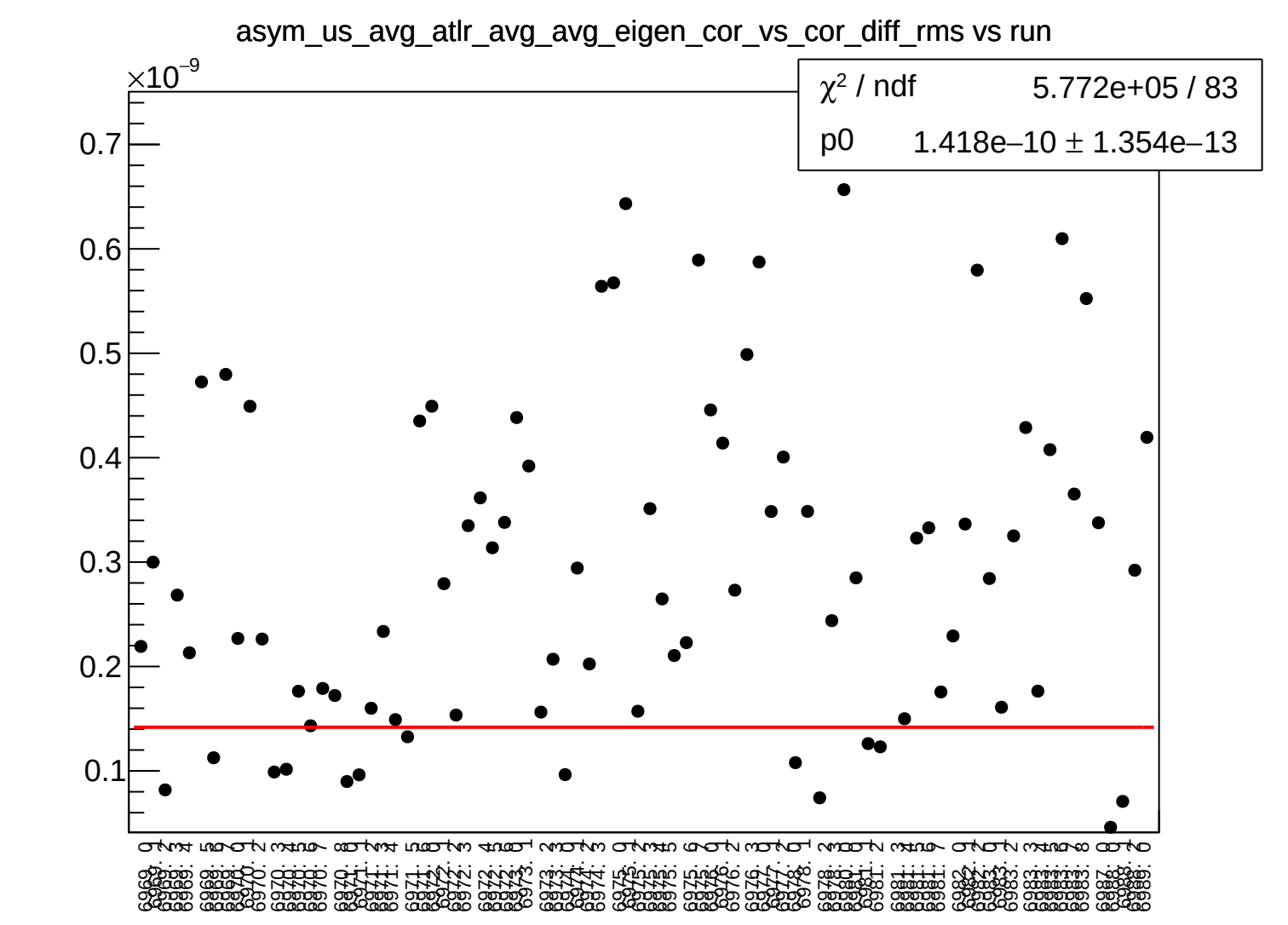


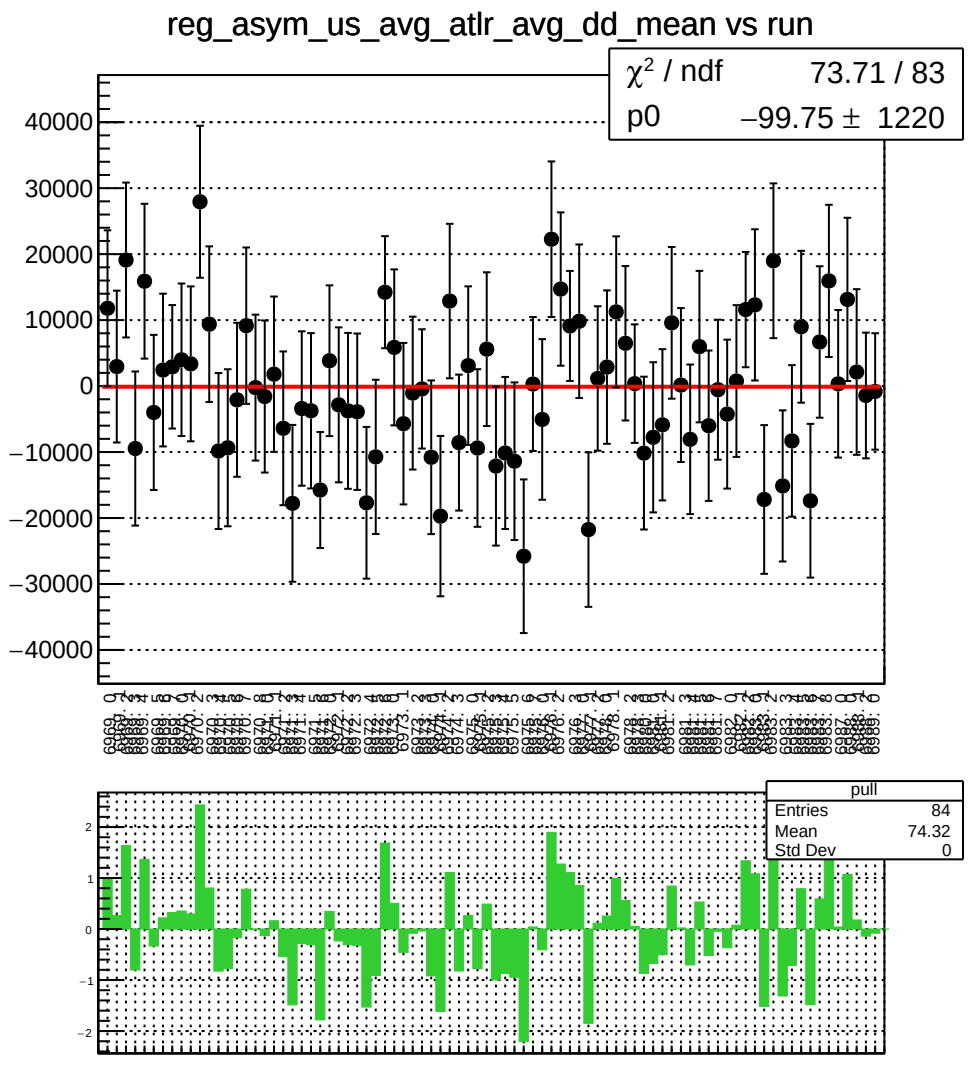


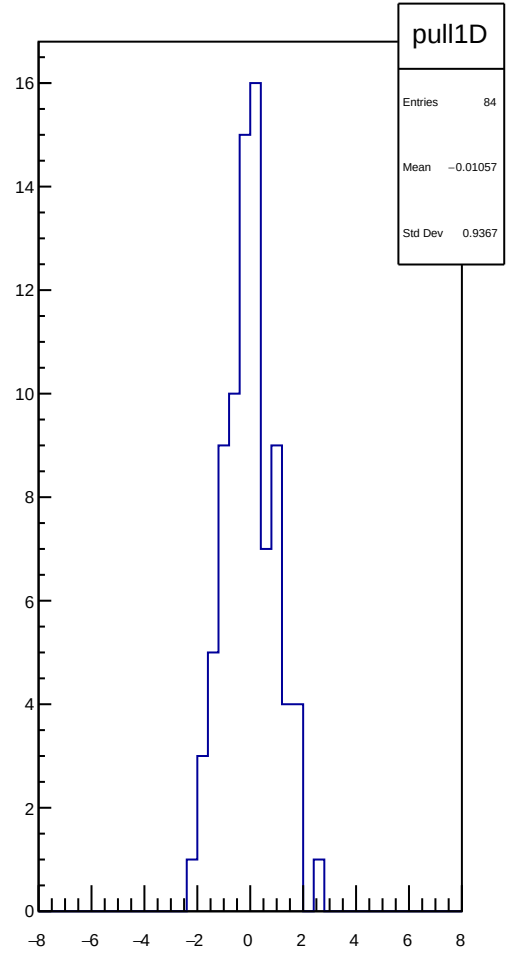


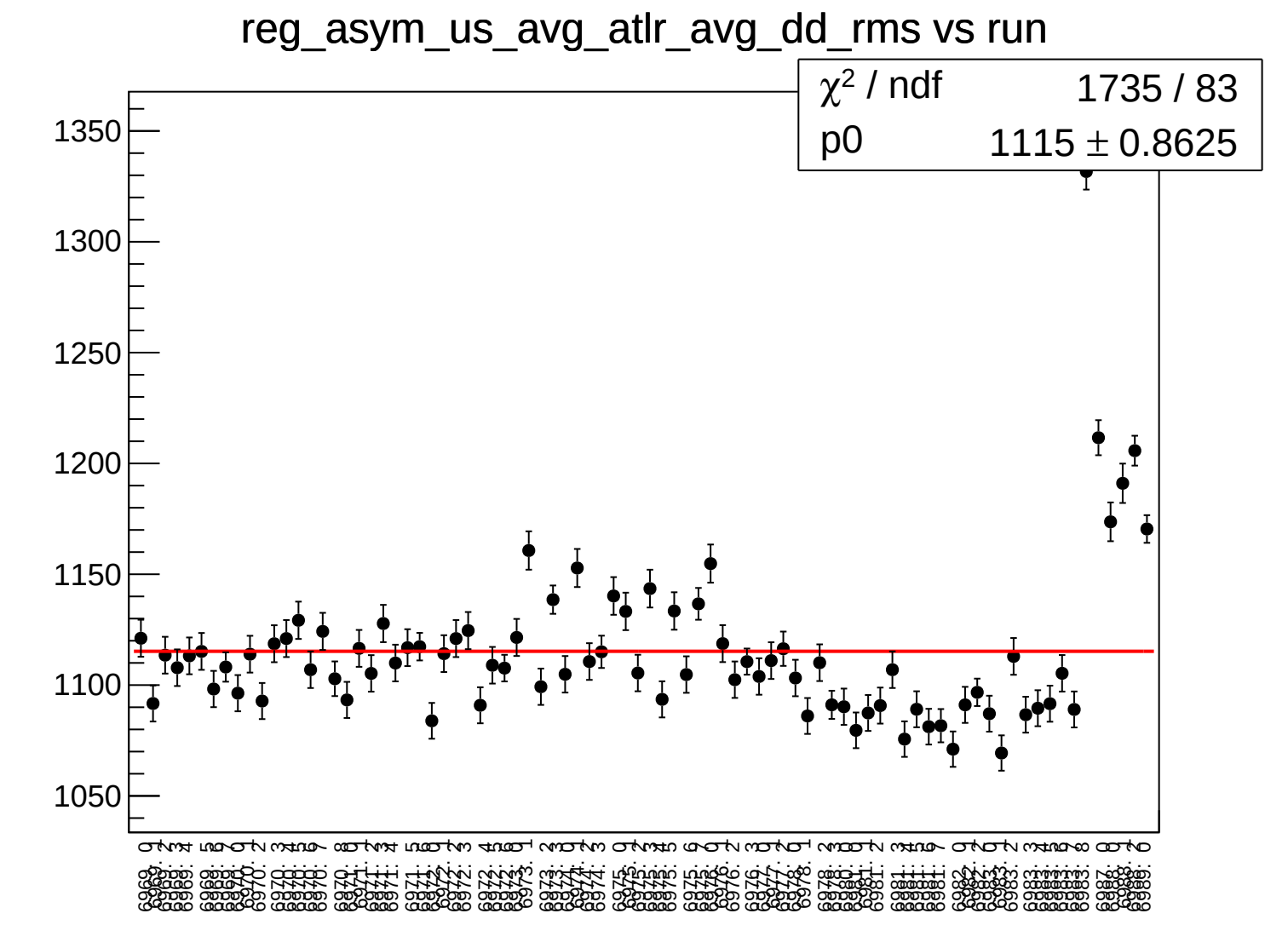

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.402e+05 / 83
p0 487.4 ± 0.3936
1400
1200
1000
800
600
400
200

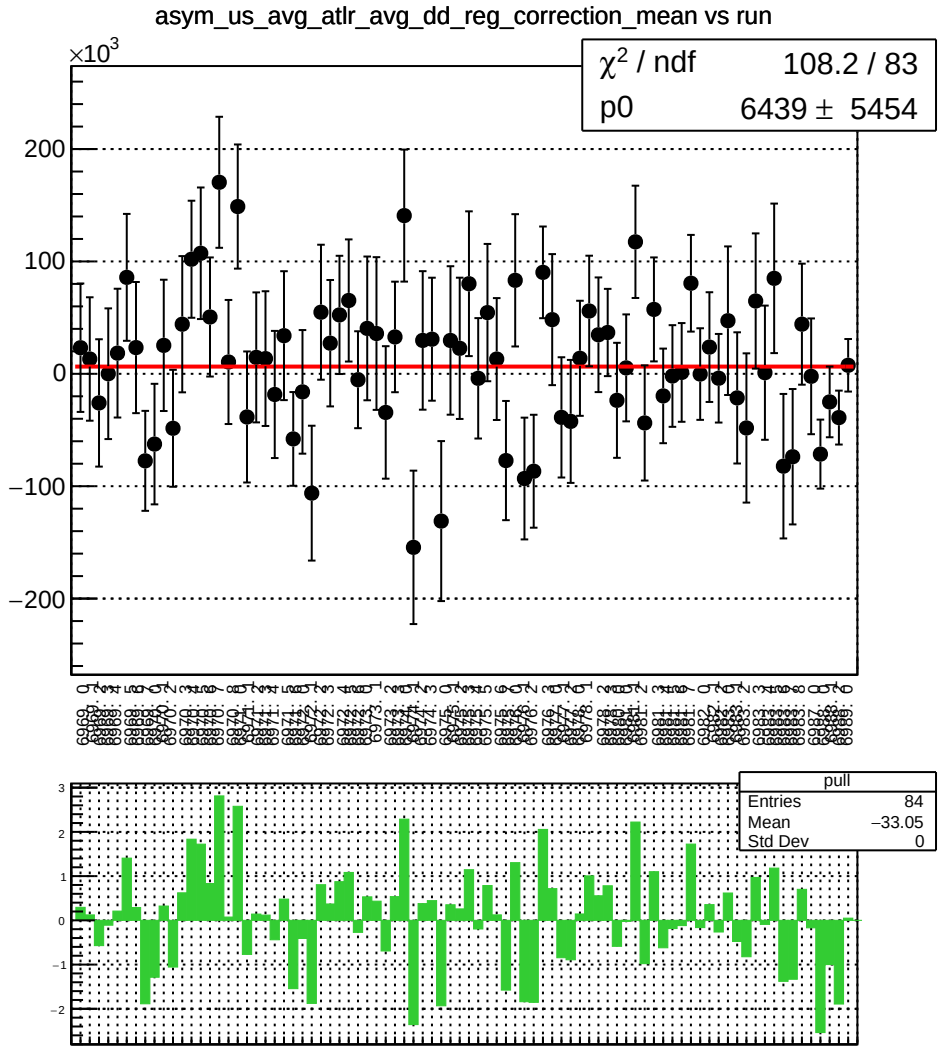

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.8 / 83
p0 2.821e−13 ± 1.915e−13
20
10
0
−10
−20
pull
Entries 84
Mean 59.17
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.1453
Std Dev 1.139
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

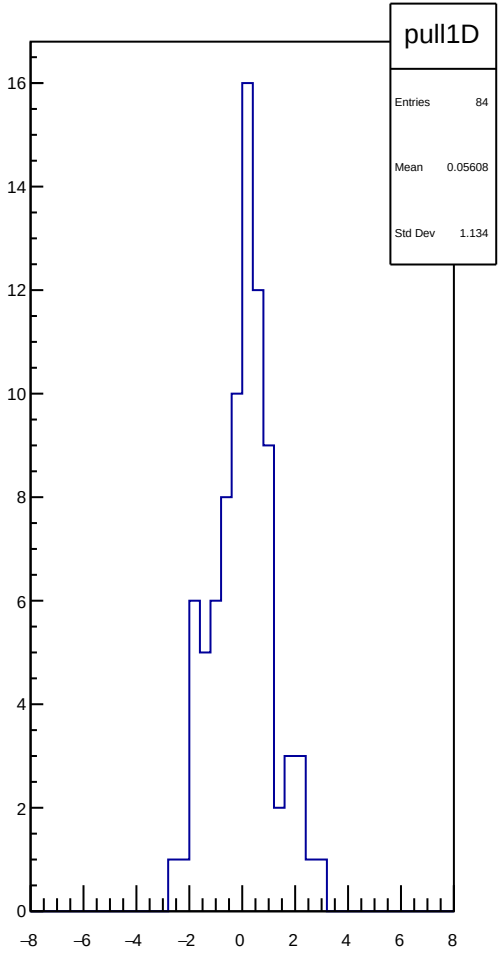

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.772e+05 / 83
p0 1.418e−10 ± 1.354e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

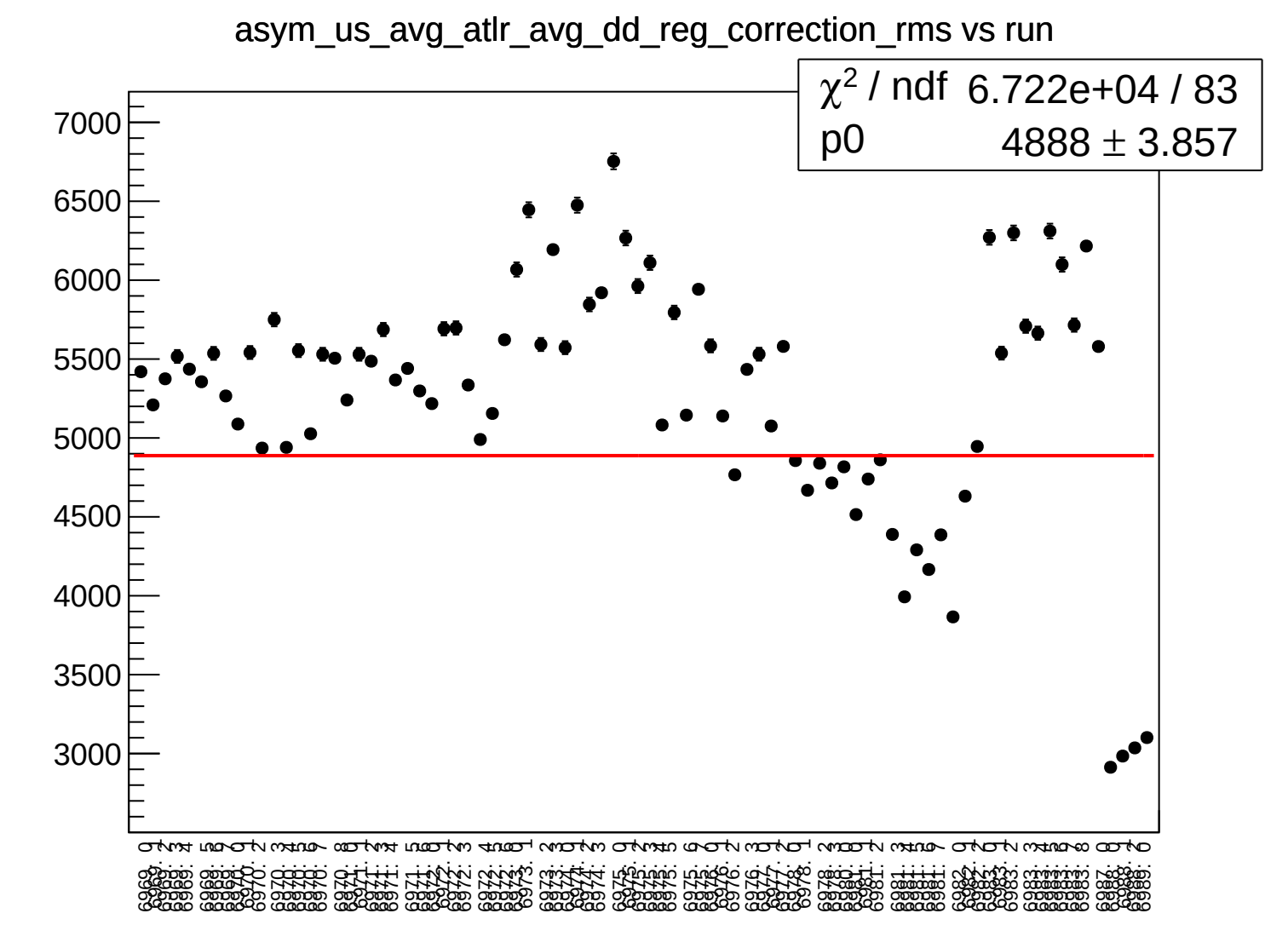

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 73.71 / 83
p0 −99.75 ± 1220
pull
Entries 84
Mean 74.32
Std Dev 0

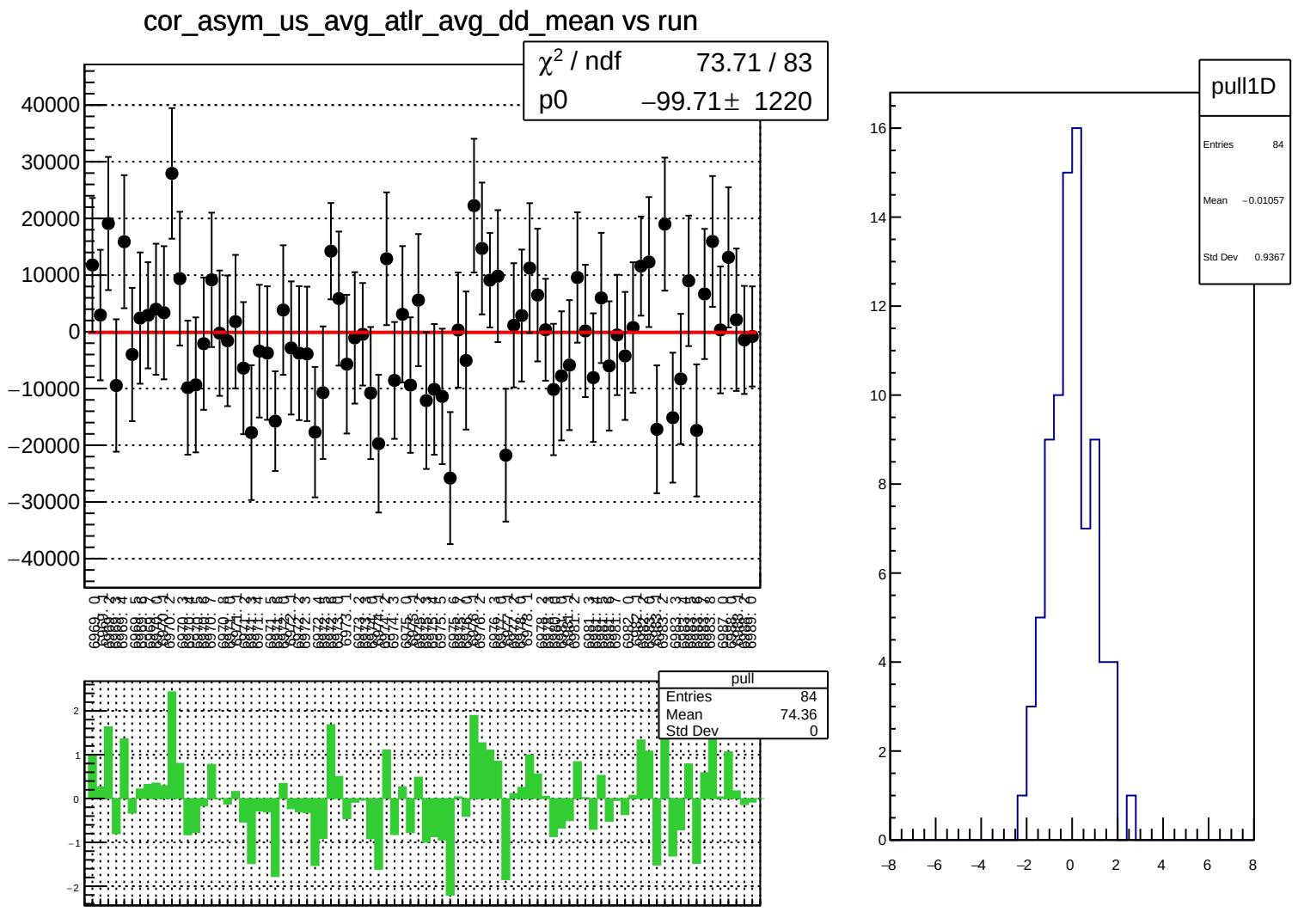

pull1D
Entries 84
Mean −0.01057
Std Dev 0.9367

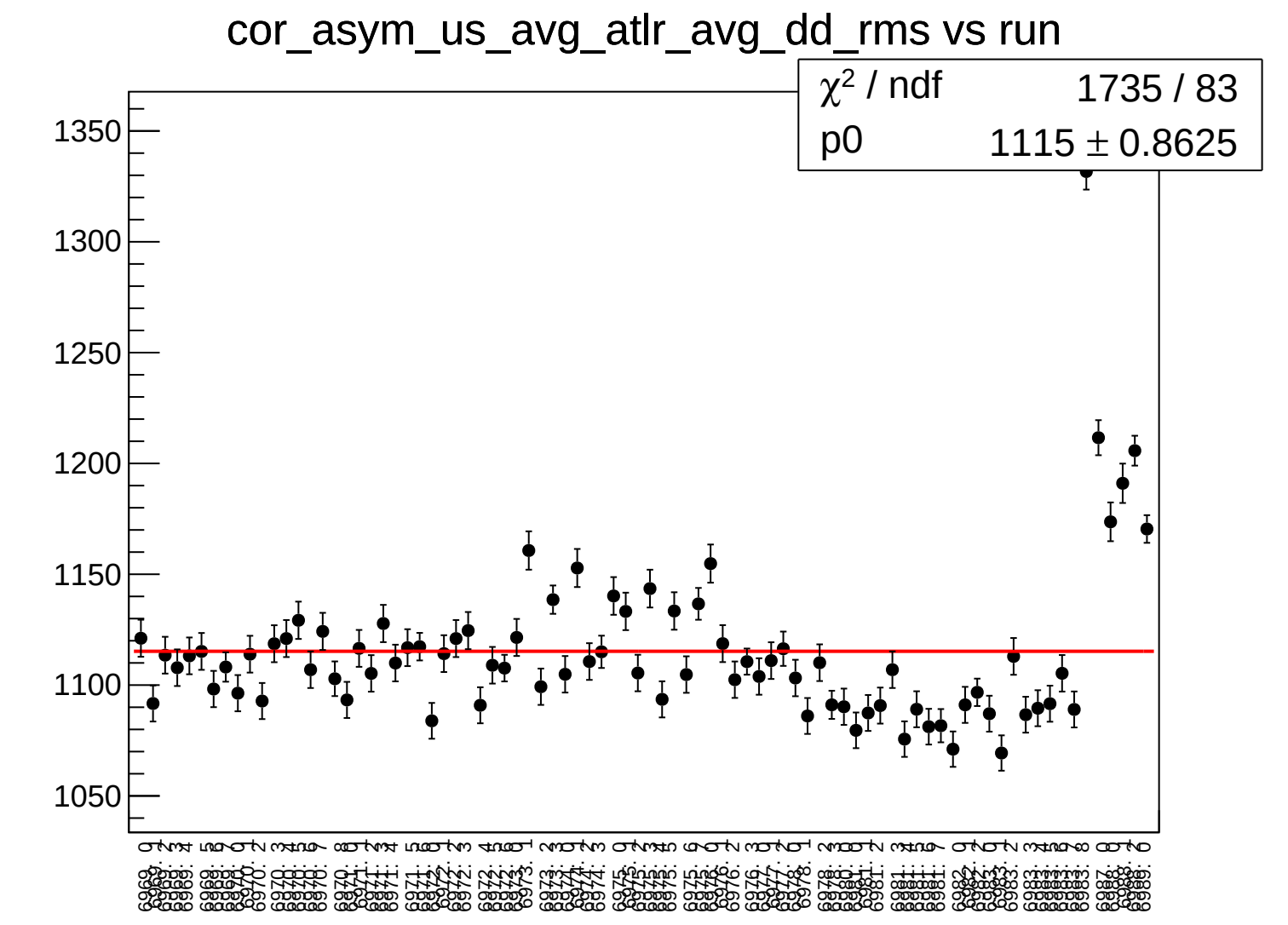

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1735 / 83
p0 1115 ± 0.8625
1350
1300
1250
1200
1150
1100
1050

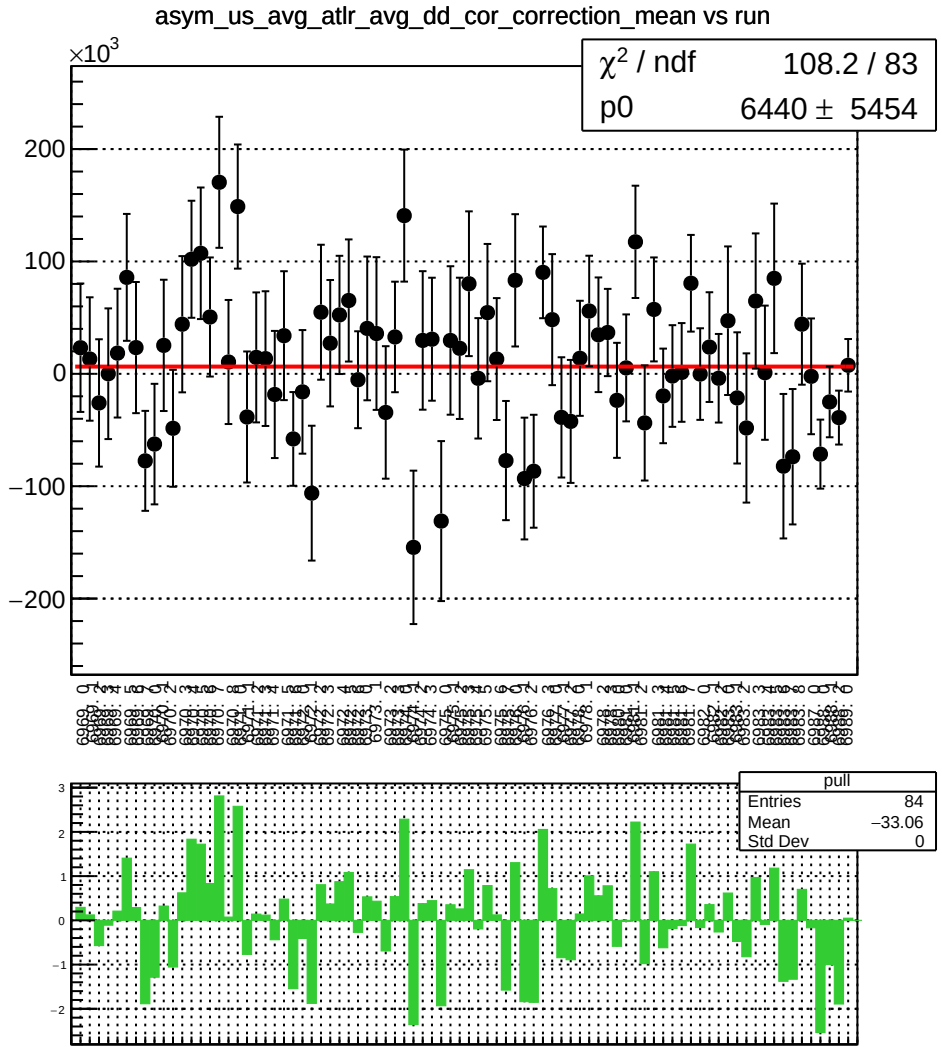

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 108.2 / 83
p0 6439 ± 5454
200
100
0
−100
−200
pull
Entries 84
Mean −33.05
Std Dev 0
3
2
1
0
−1
−2

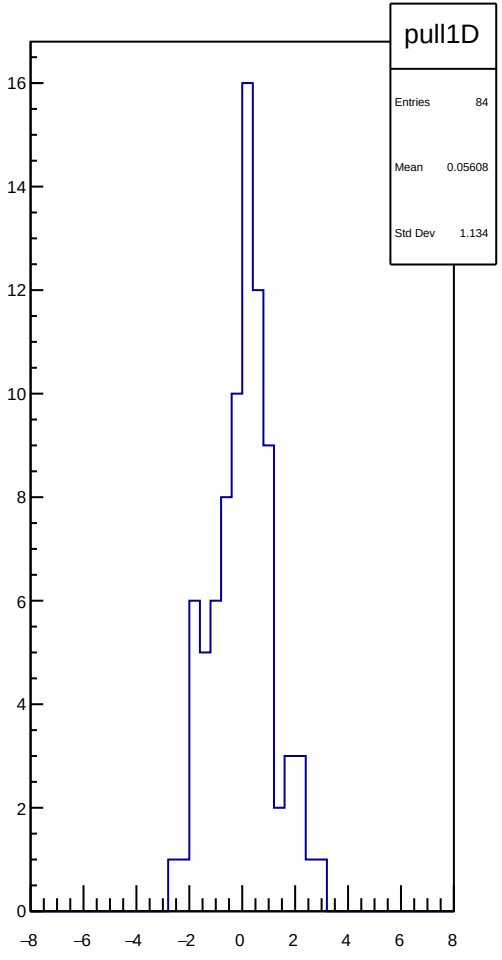

pull1D
Entries 84
Mean 0.05608
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

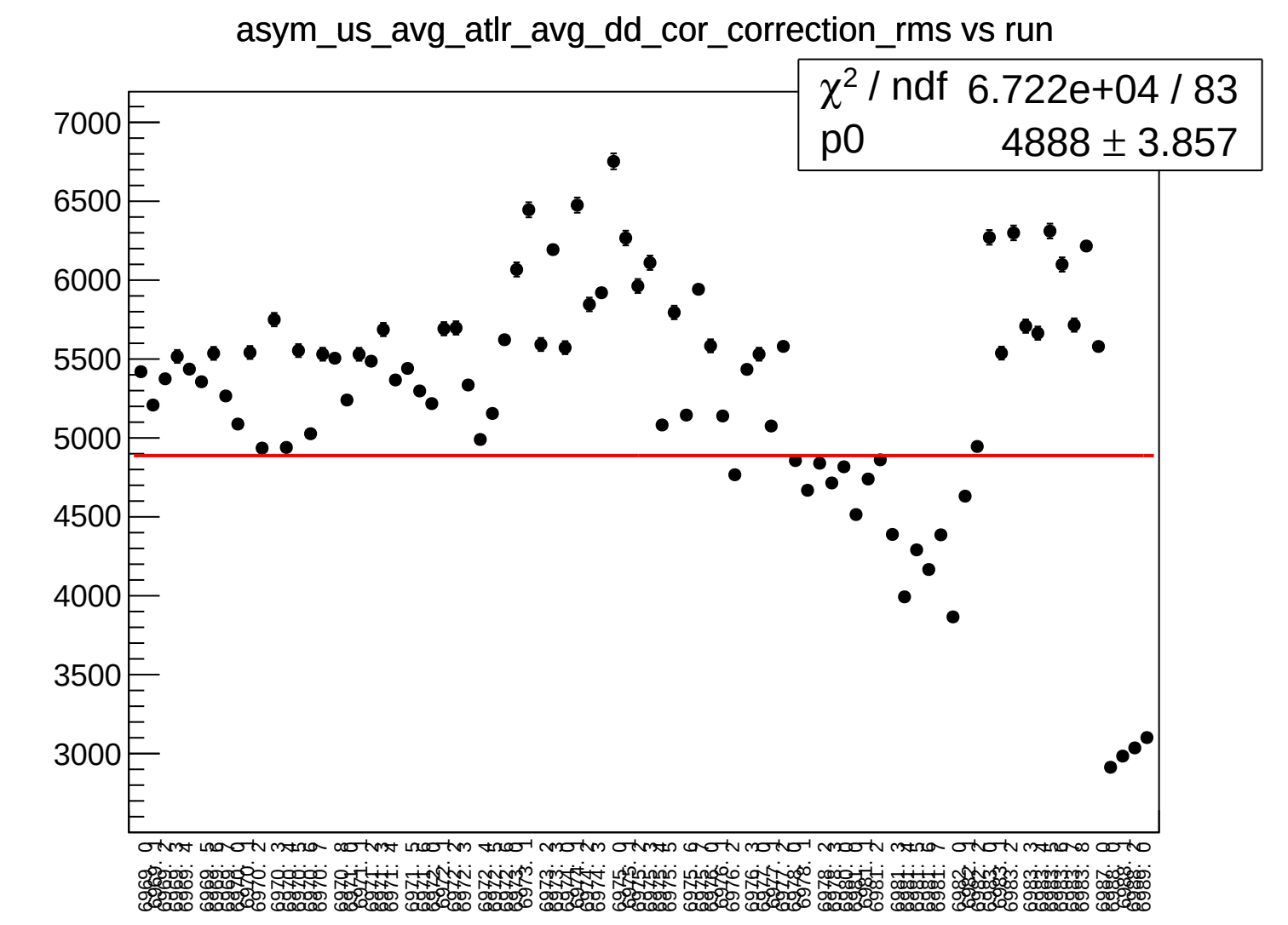

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 6.722e+04 / 83
p0 4888 ± 3.857
7000
6500
6000
5500
5000
4500
4000
3500
3000

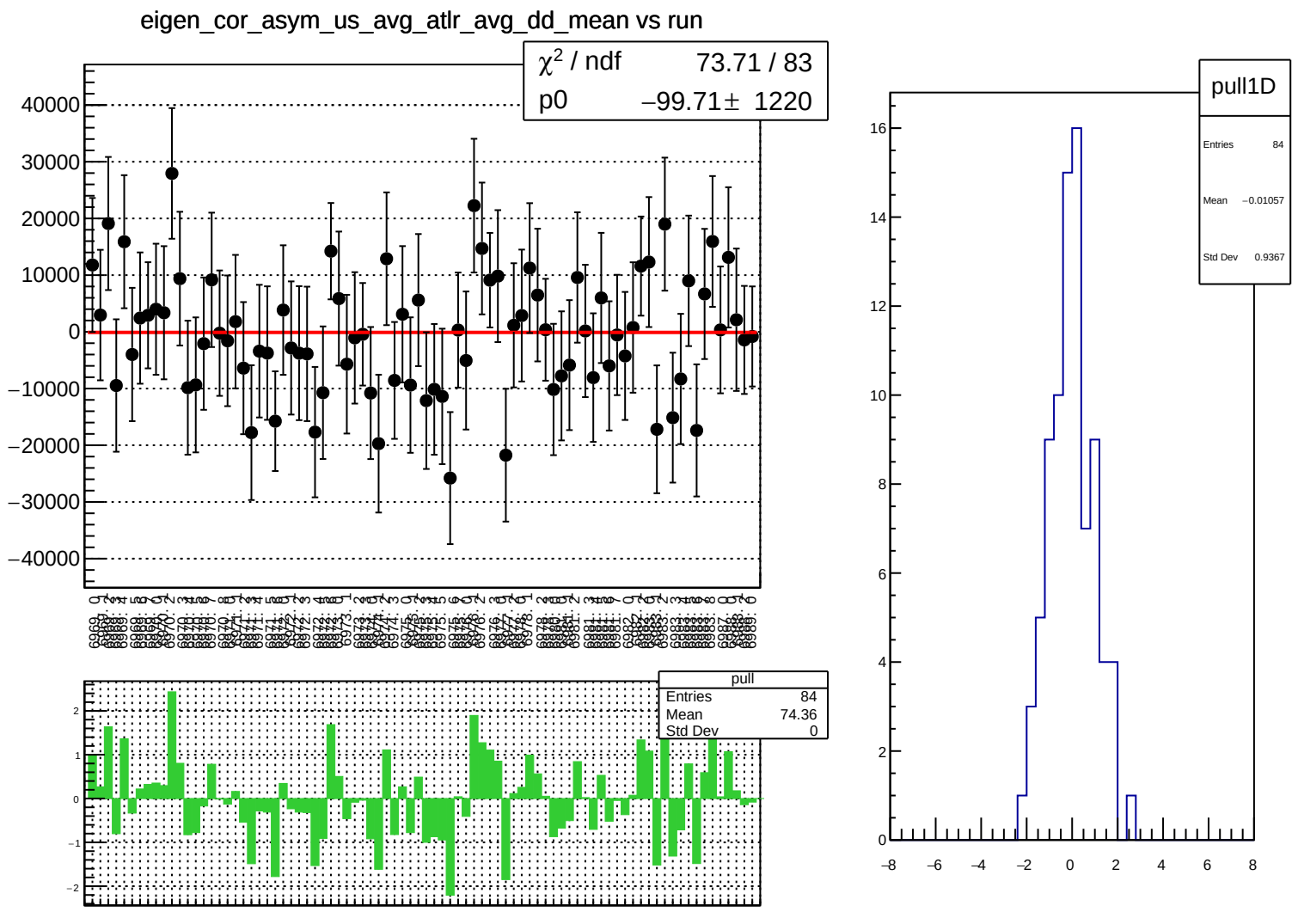

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 73.71 / 83
p0 −99.71± 1220
pull
Entries 84
Mean 74.36
Std Dev 0
pull1D
Entries 84
Mean −0.01057
Std Dev 0.9367

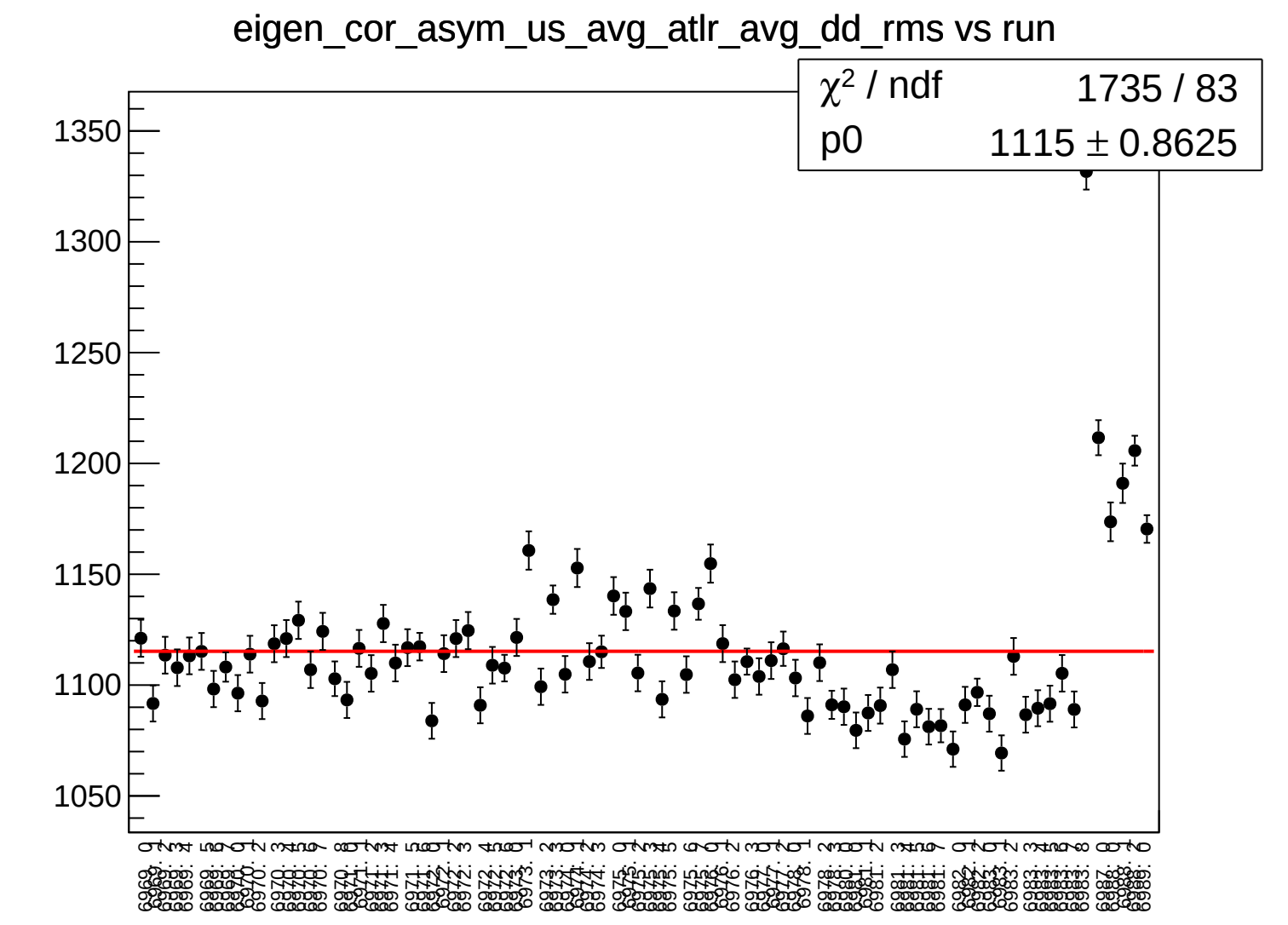

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1735 / 83
p0 1115 ± 0.8625
1350
1300
1250
1200
1150
1100
1050

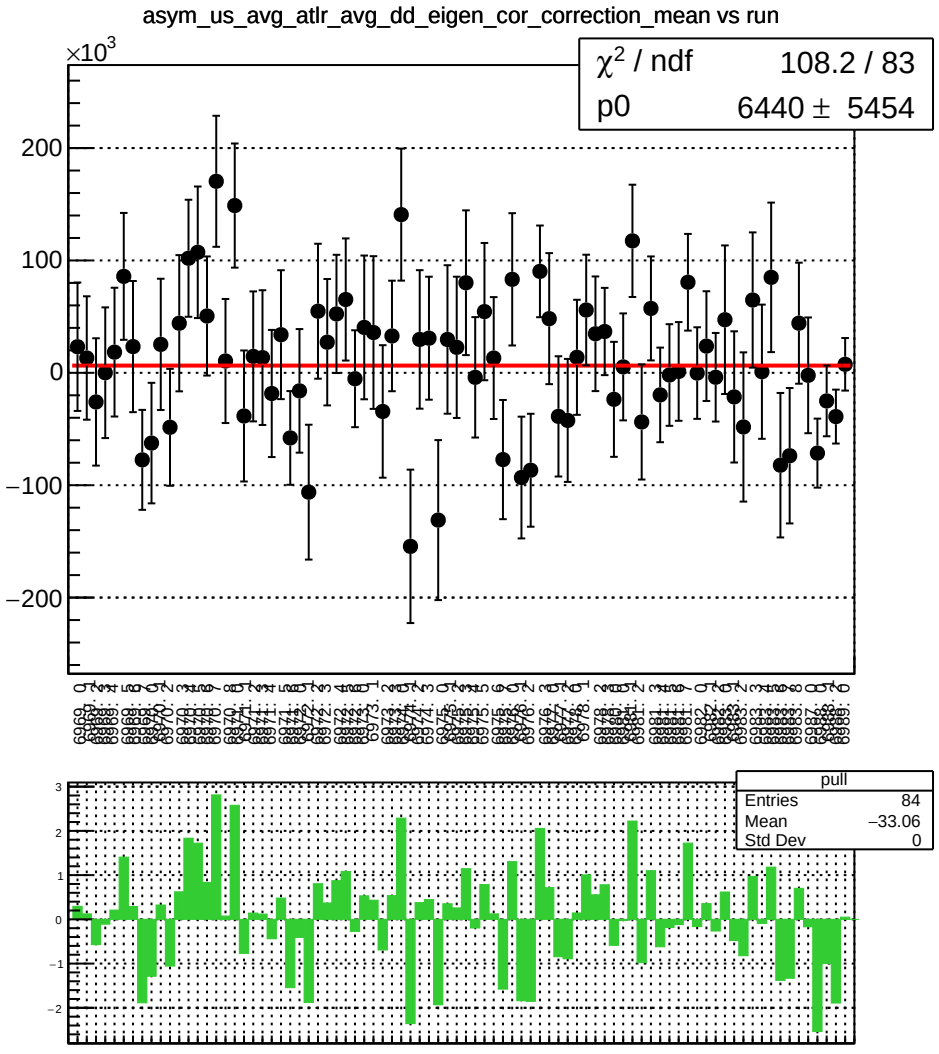

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 108.2 / 83
p0 6440 ± 5454
200
100
0
−100
−200
pull
Entries 84
Mean −33.06
Std Dev 0
3
2
1
0
−1
−2

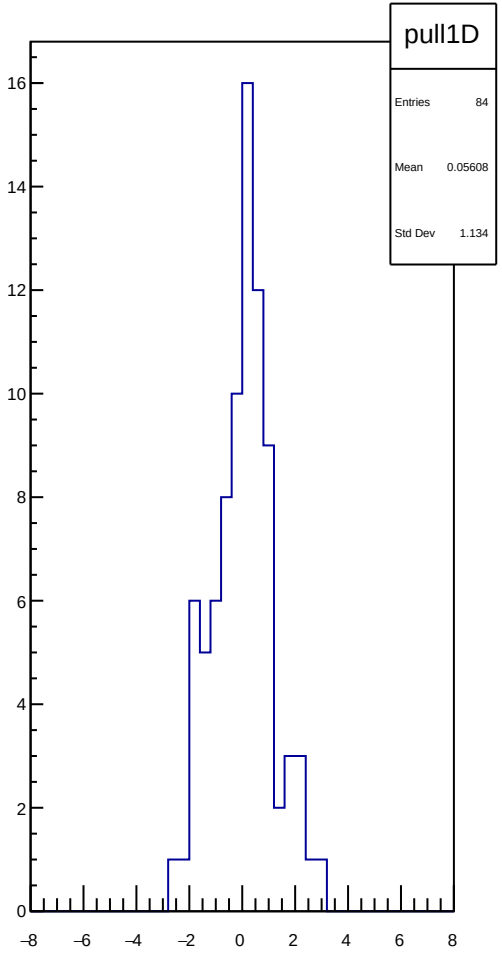

pull1D
Entries 84
Mean 0.05608
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

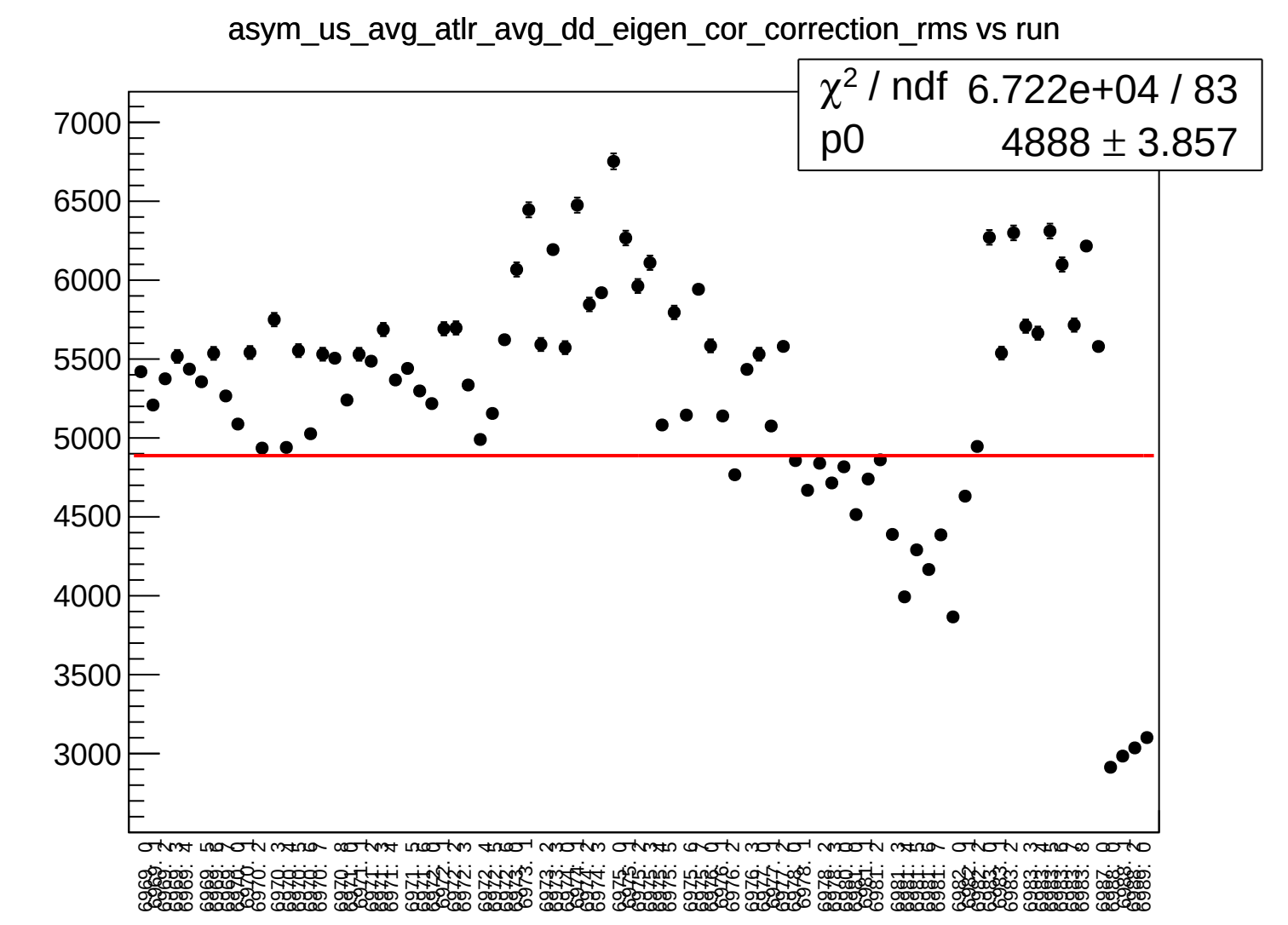

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 6.722e+04 / 83
p0 4888 ± 3.857
7000
6500
6000
5500
5000
4500
4000
3500
3000

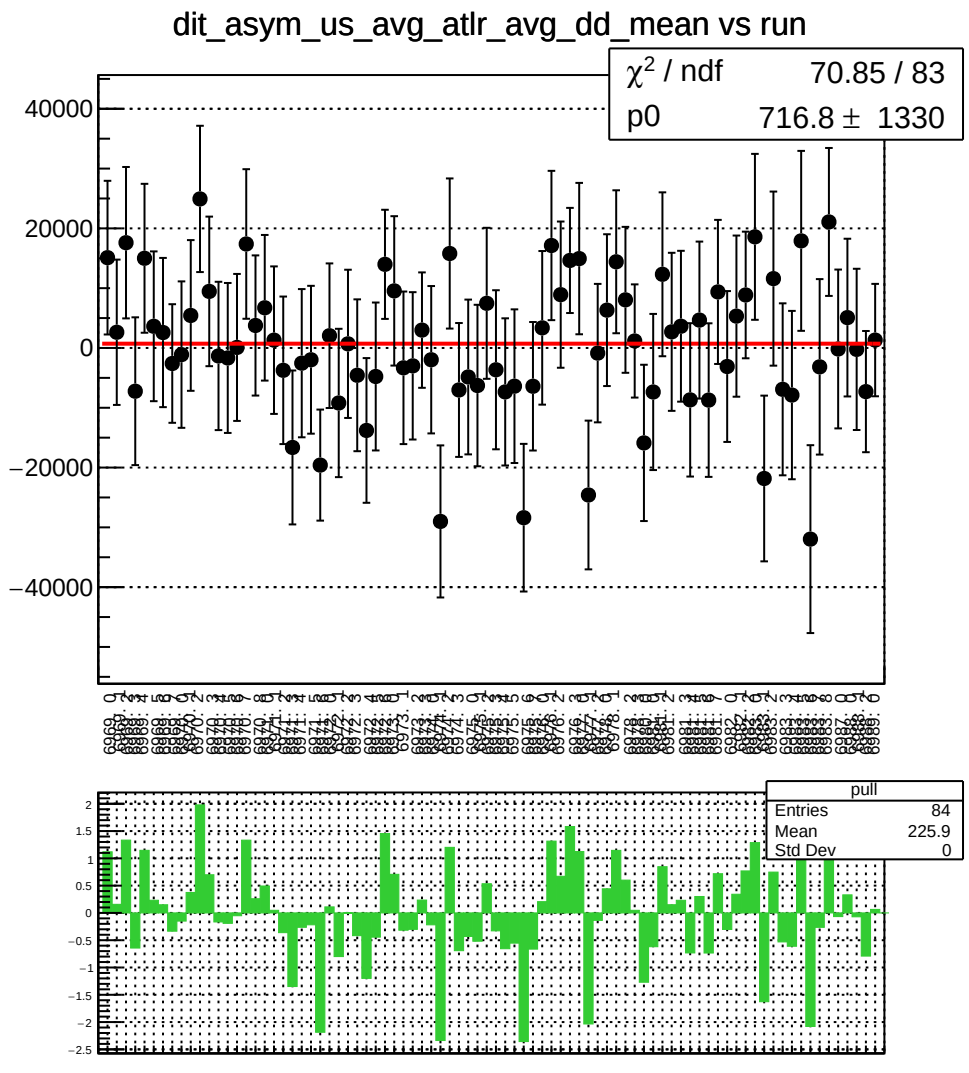

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 73.71 / 83
p0 −99.71± 1220
pull
Entries 84
Mean 74.36
Std Dev 0
pull1D
Entries 84
Mean −0.01057
Std Dev 0.9367

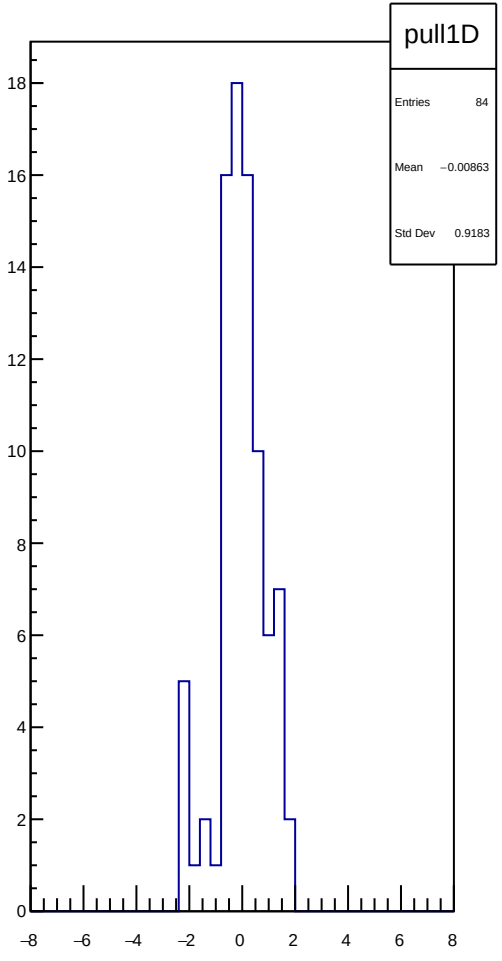

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1735 / 83
p0 1115 ± 0.8625
1350
1300
1250
1200
1150
1100
1050

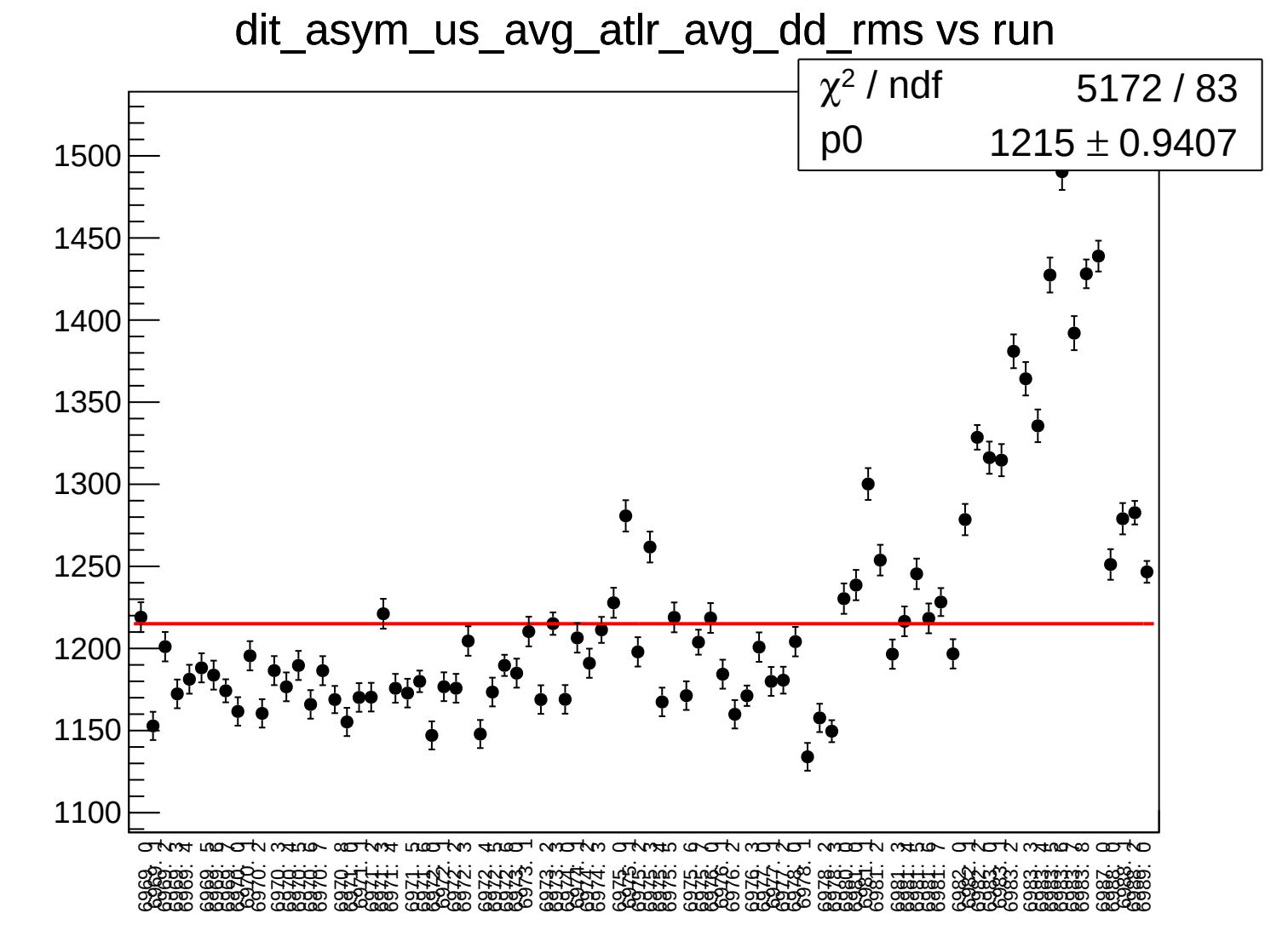

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 108.2 / 83
p0 6440 ± 5454
200
100
0
−100
−200
pull
Entries 84
Mean −33.06
Std Dev 0
3
2
1
0
−1
−2

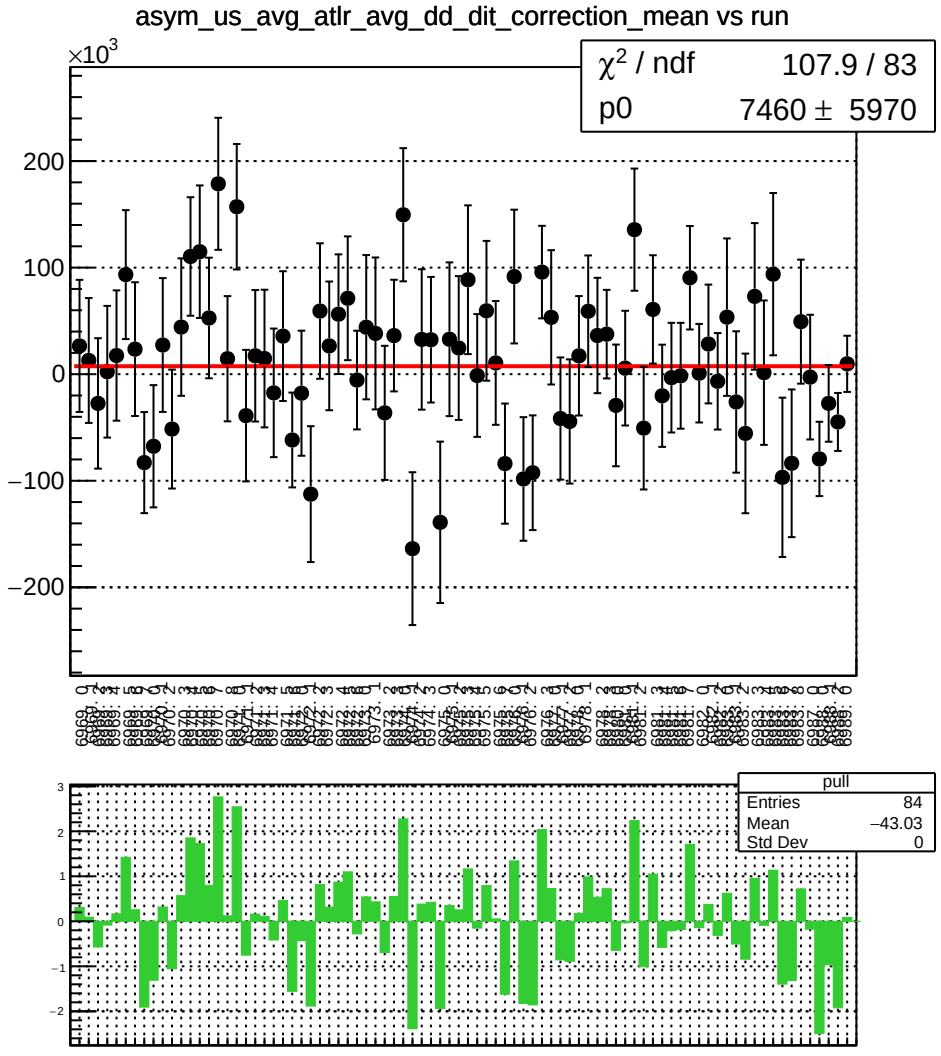

pull1D
Entries 84
Mean 0.05608
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

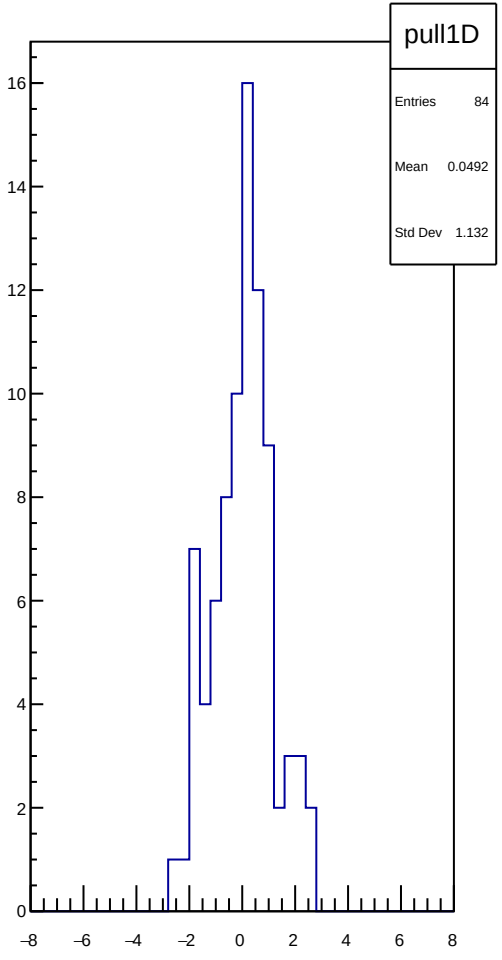

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.722e+04 / 83
p0 4888 ± 3.857
7000
6500
6000
5500
5000
4500
4000
3500
3000

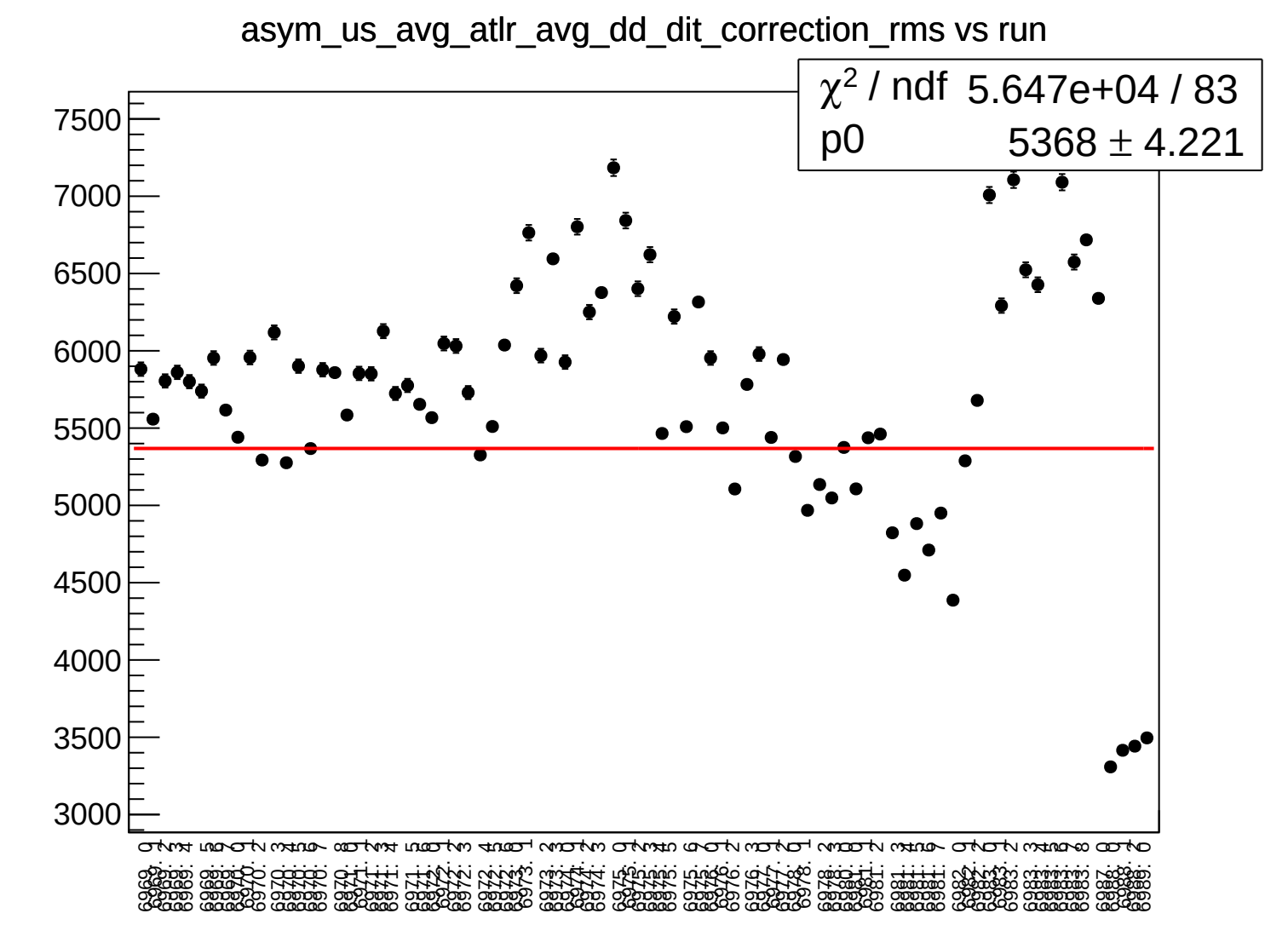

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 70.85 / 83
p0 716.8 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 225.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

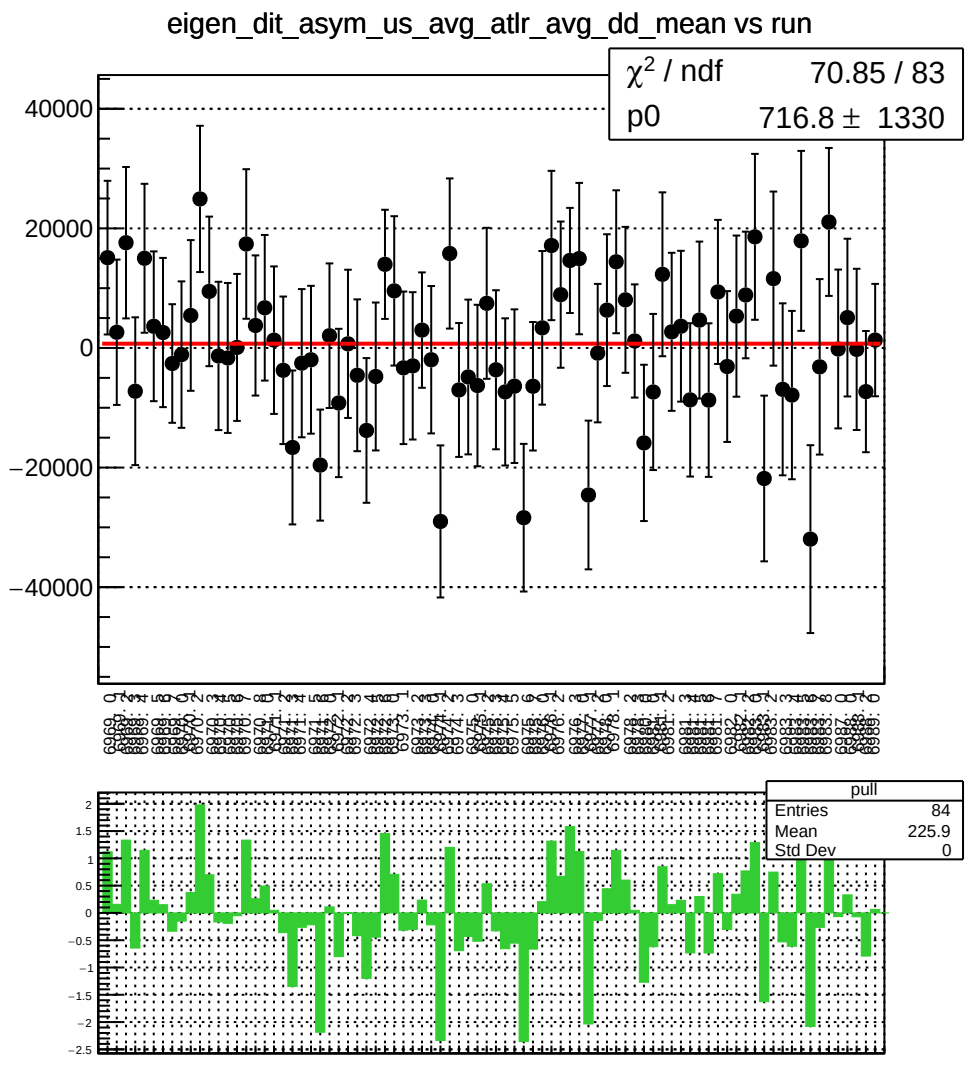

pull1D
Entries 84
Mean −0.00863
Std Dev 0.9183
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

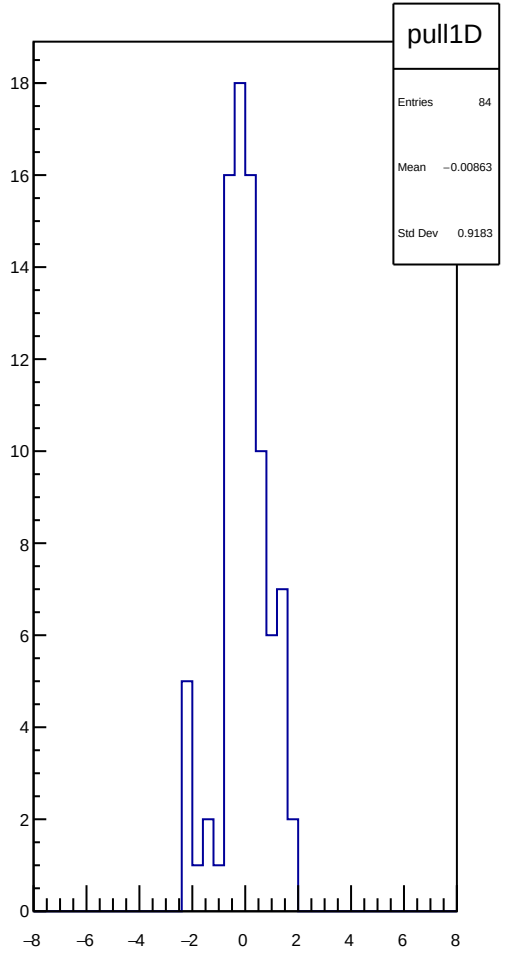

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 5172 / 83
p0 1215 ± 0.9407
1500
1450
1400
1350
1300
1250
1200
1150
1100

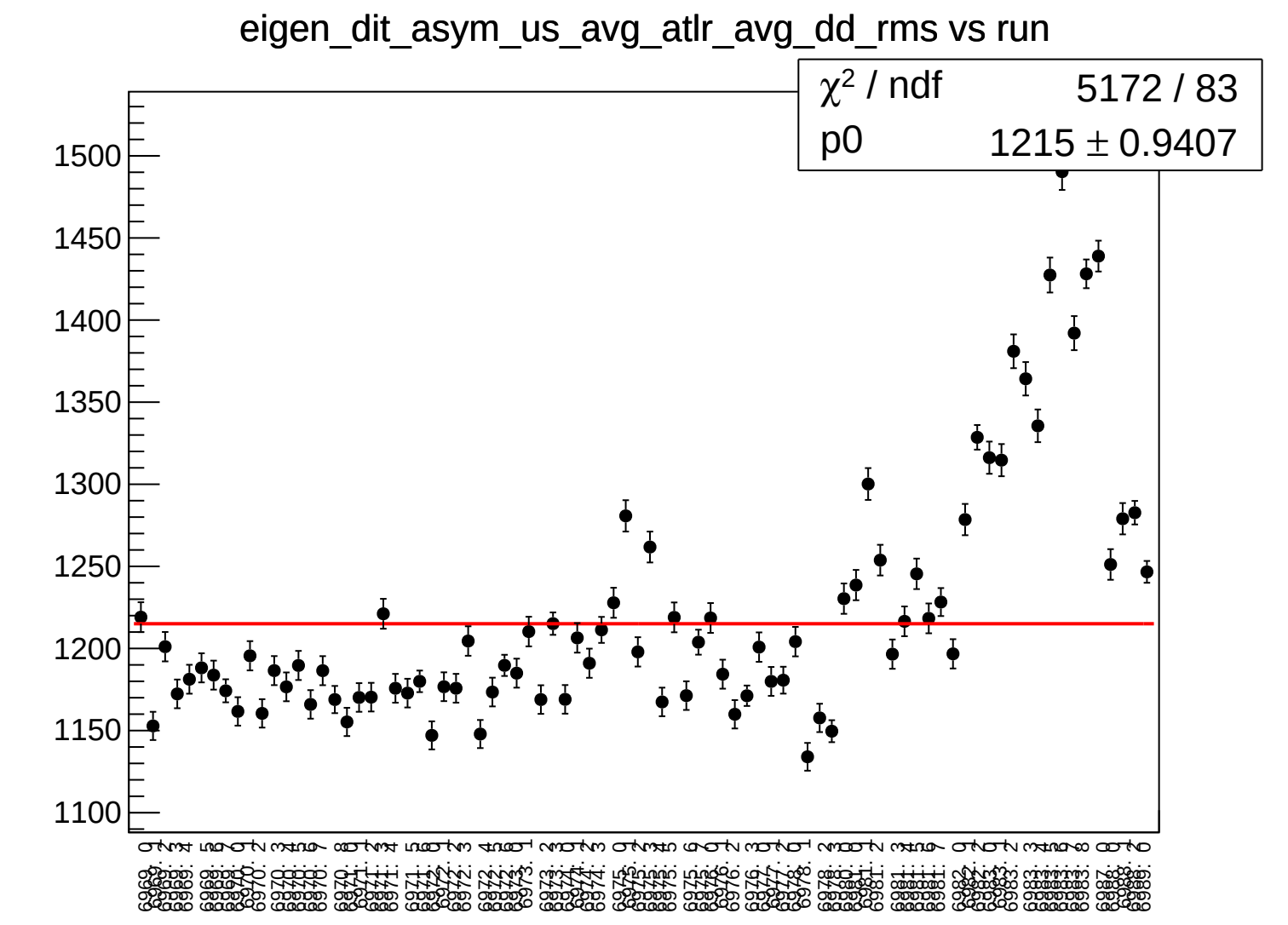

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.9 / 83
p0 7460 ± 5970
200
100
0
−100
−200
pull
Entries 84
Mean −43.03
Std Dev 0
3
2
1
0
−1
−2

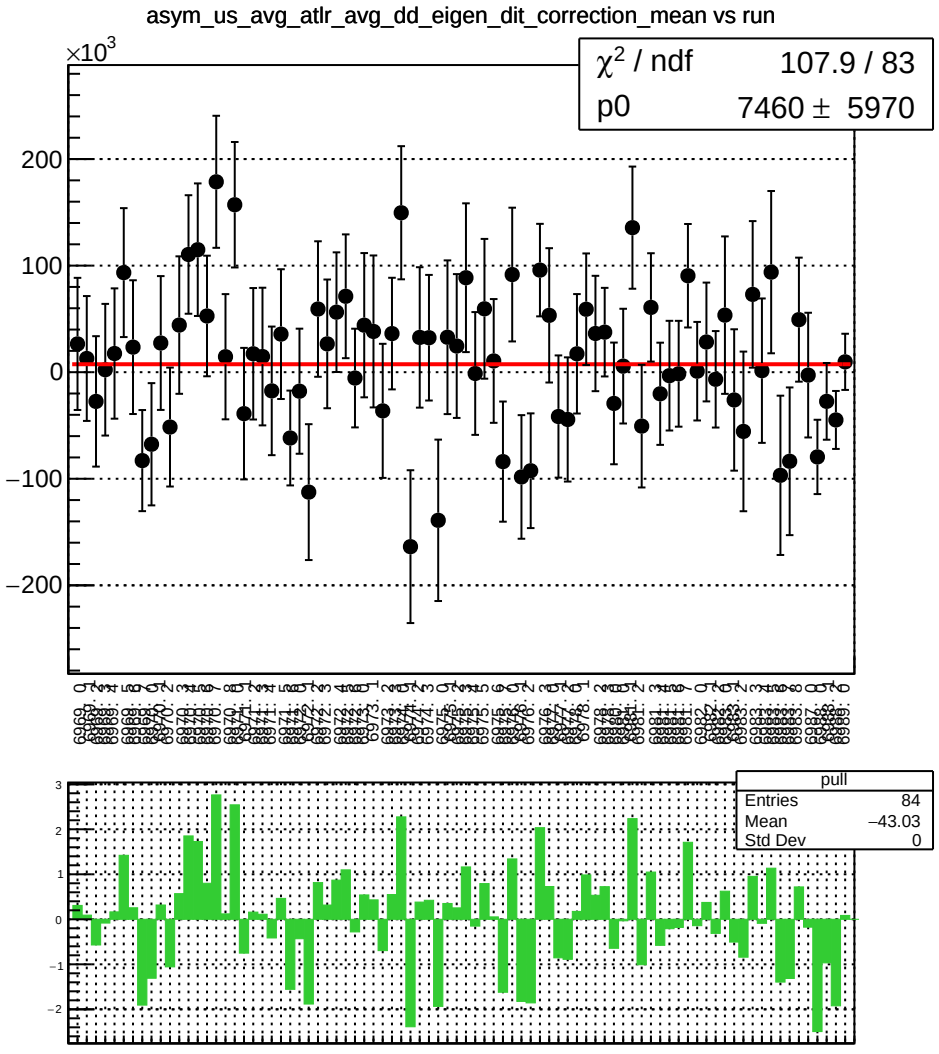

pull1D
Entries 84
Mean 0.0492
Std Dev 1.132
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

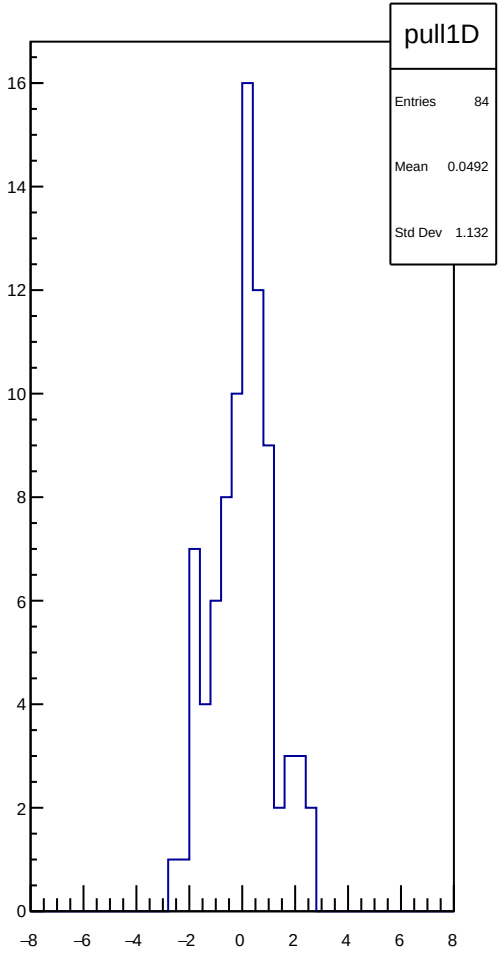

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ^2 / ndf 5.647e+04 / 83
p0 5368 ± 4.221
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000

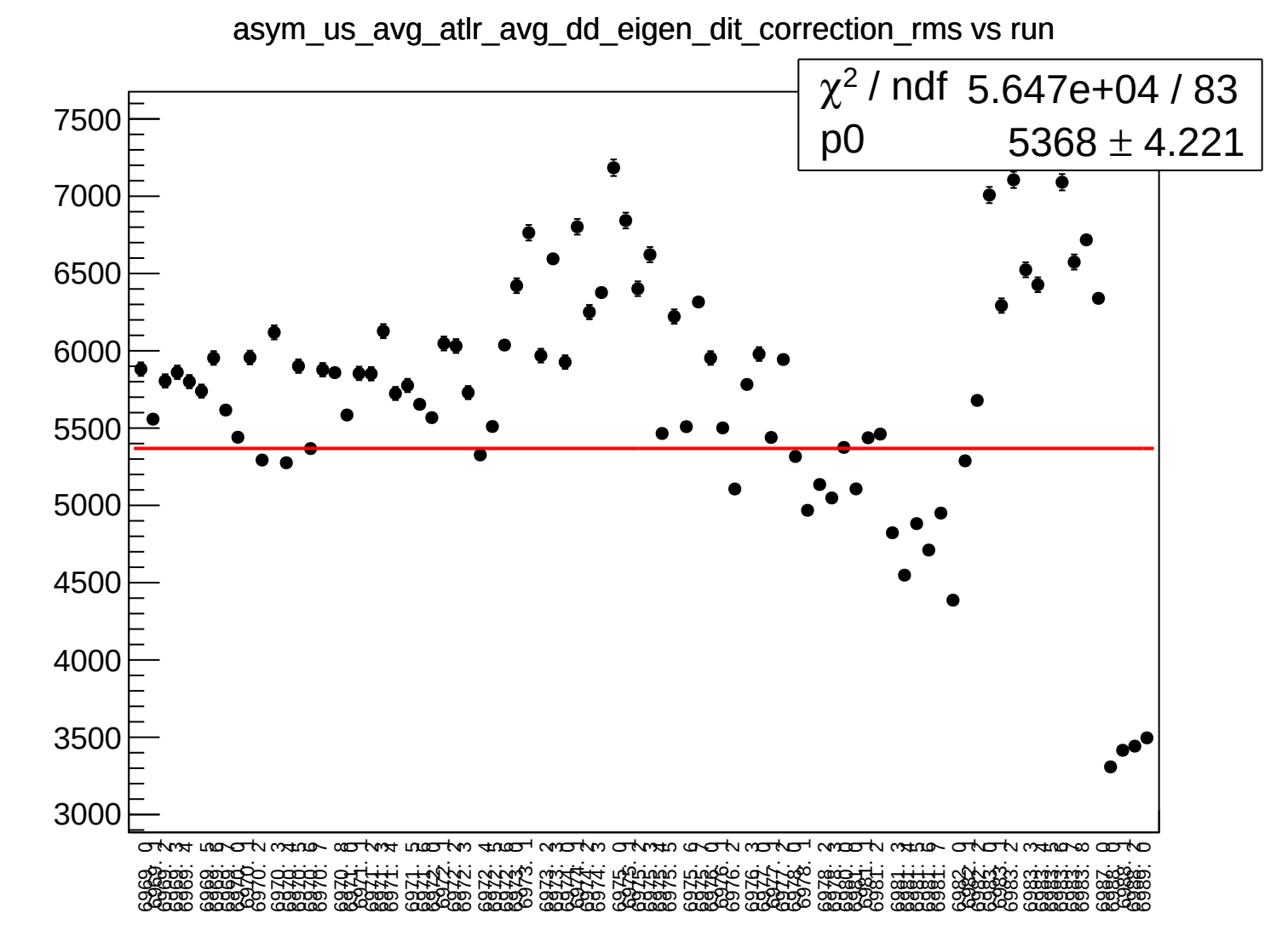

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 70.85 / 83
p0 716.8 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 225.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

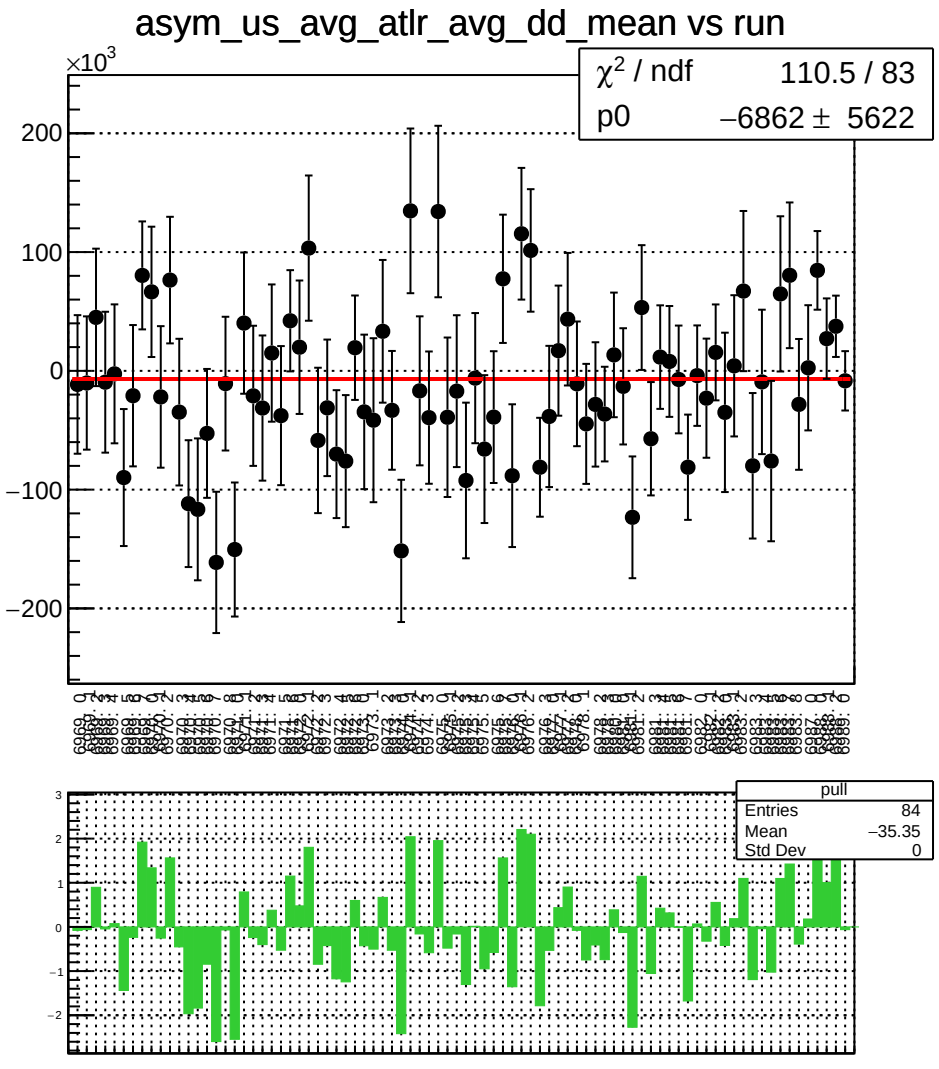

pull1D
Entries 84
Mean −0.00863
Std Dev 0.9183
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

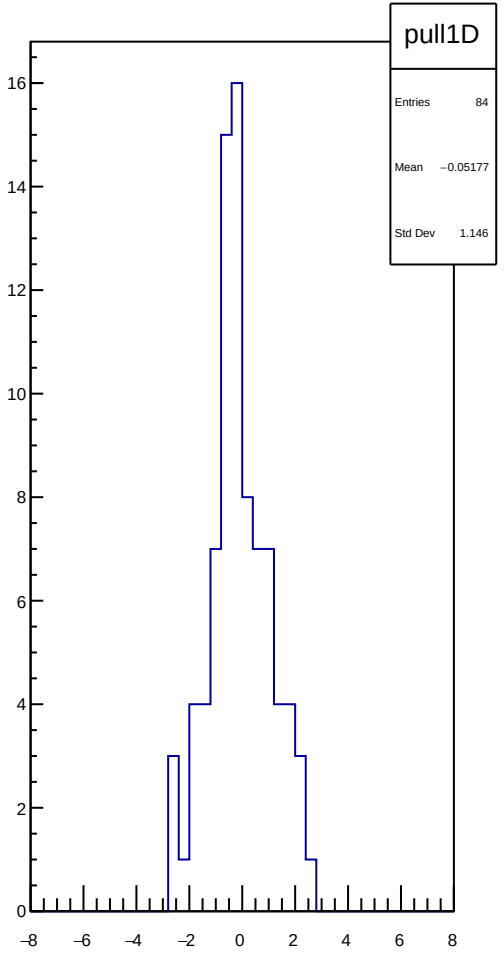

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 5172 / 83
p0 1215 ± 0.9407
1500
1450
1400
1350
1300
1250
1200
1150
1100

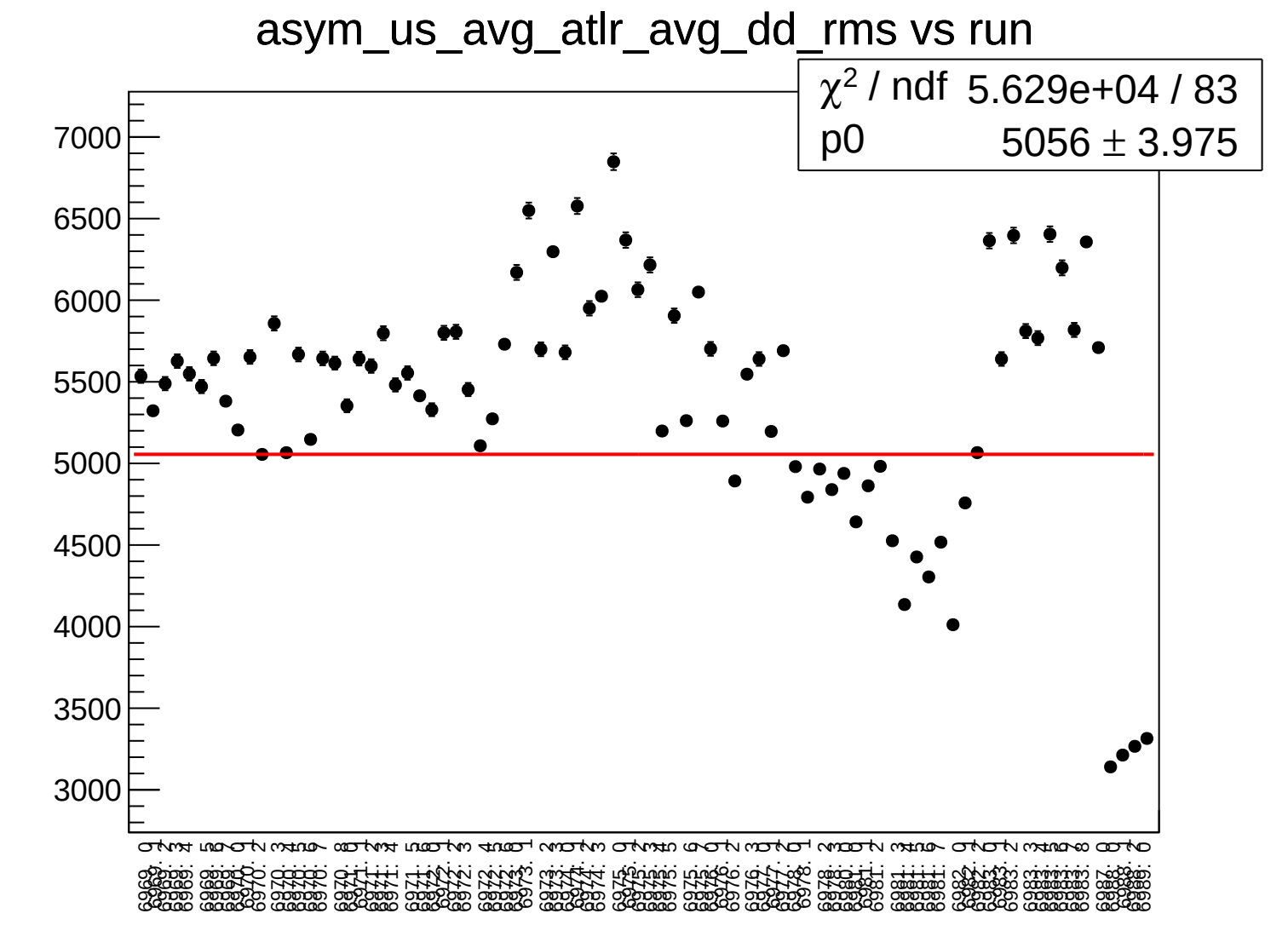

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.9 / 83
p0 7460 ± 5970
200
100
0
−100
−200
pull
Entries 84
Mean −43.03
Std Dev 0
3
2
1
0
−1
−2

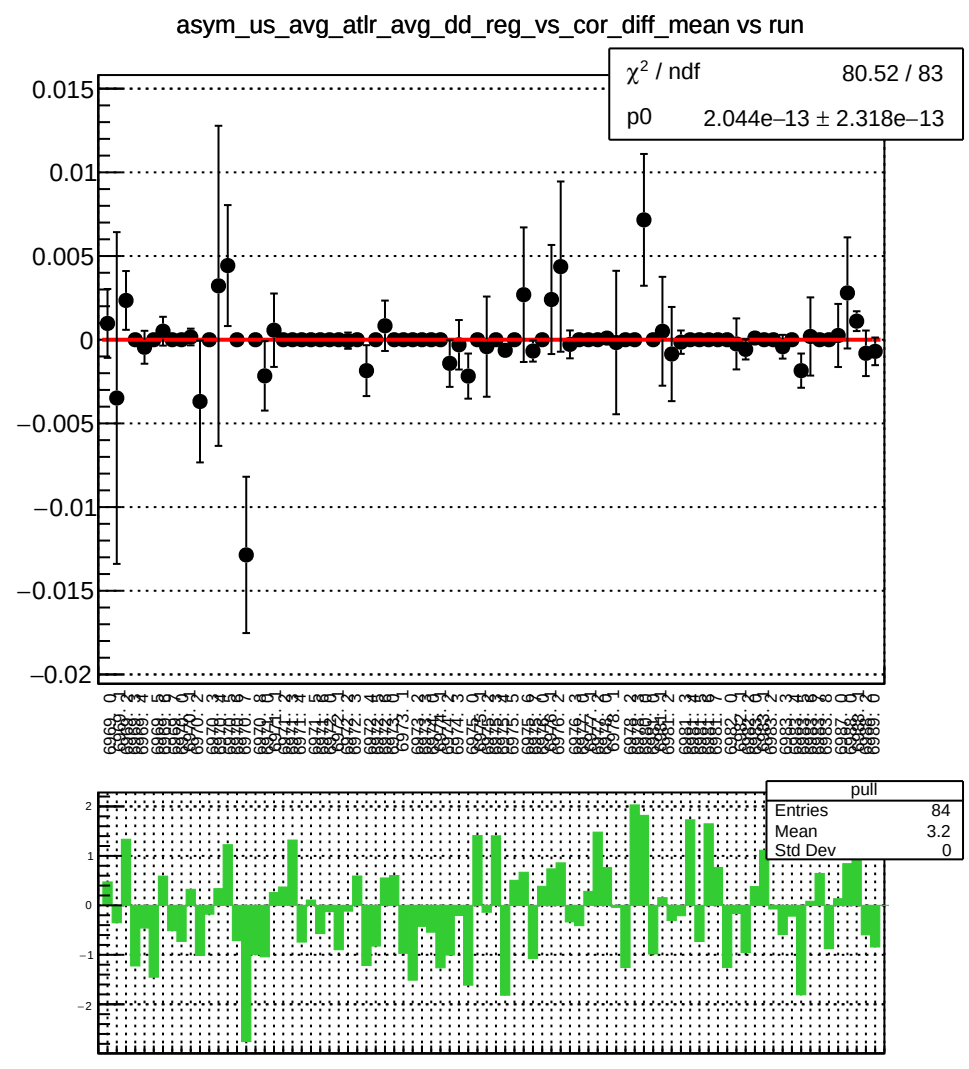

pull1D
Entries 84
Mean 0.0492
Std Dev 1.132
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

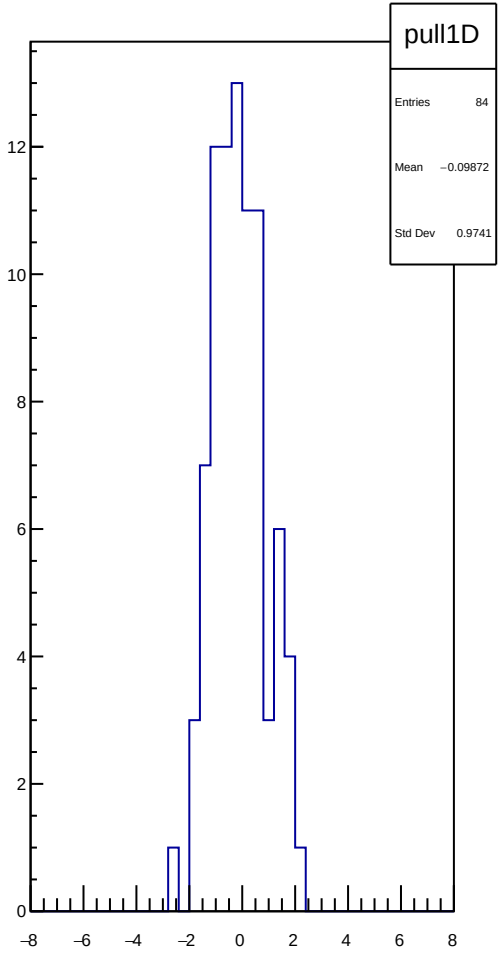

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.647e+04 / 83
p0 5368 ± 4.221
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000

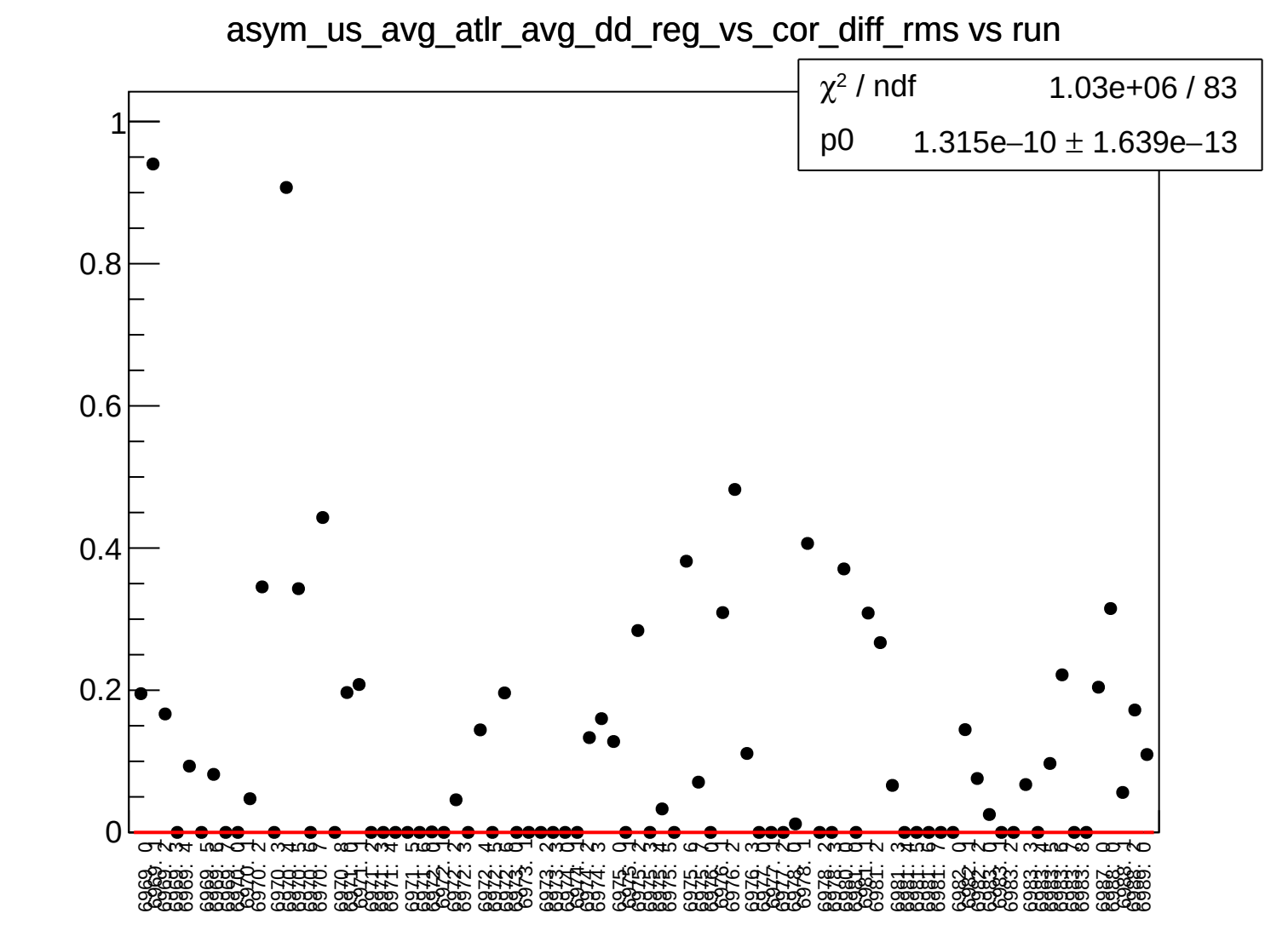

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 110.5 / 83
p0 −6862 ± 5622
200
100
0
−100
−200
pull
Entries 84
Mean −35.35
Std Dev 0
3
2
1
0
−1
−2

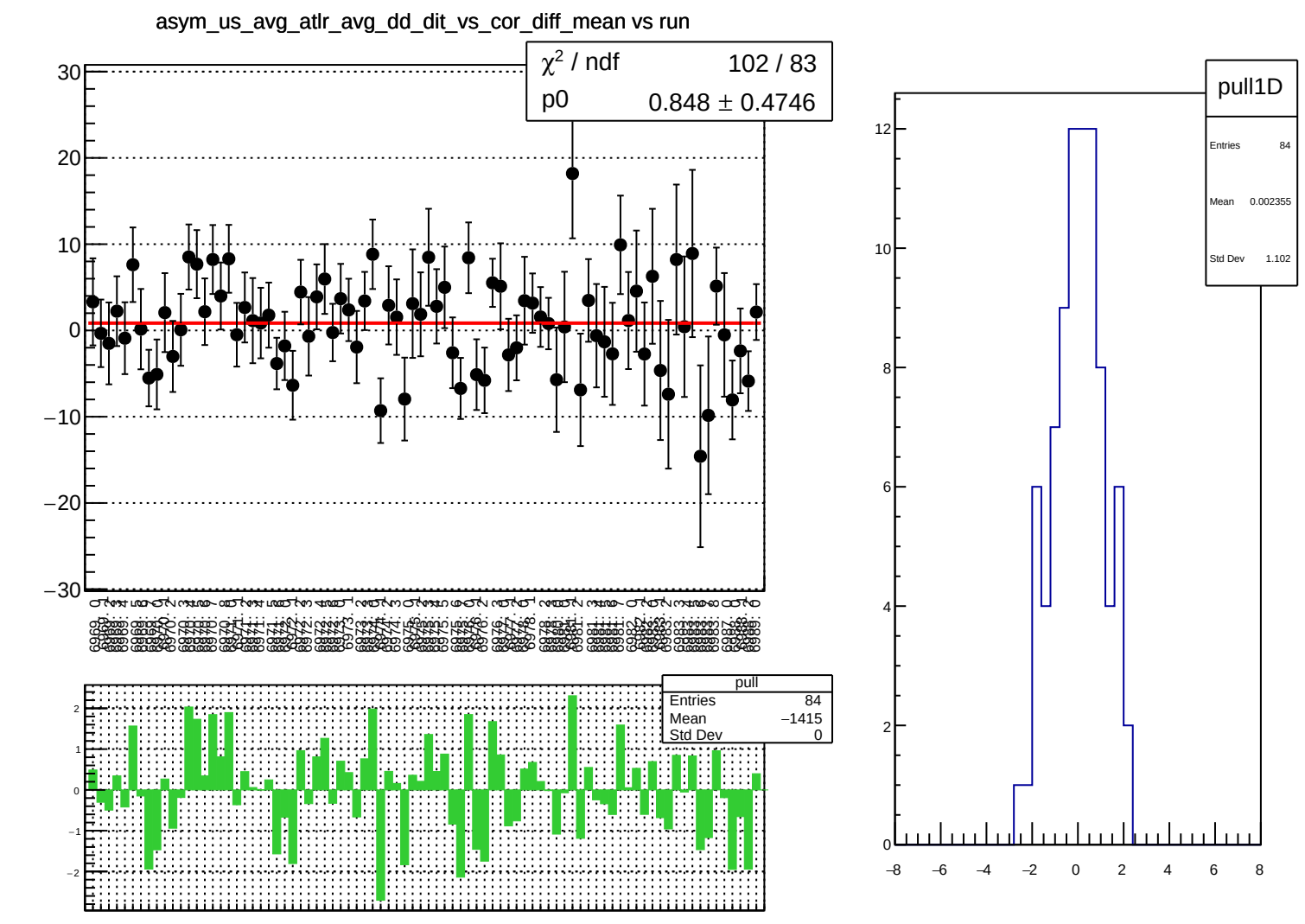

pull1D
Entries 84
Mean −0.05177
Std Dev 1.146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

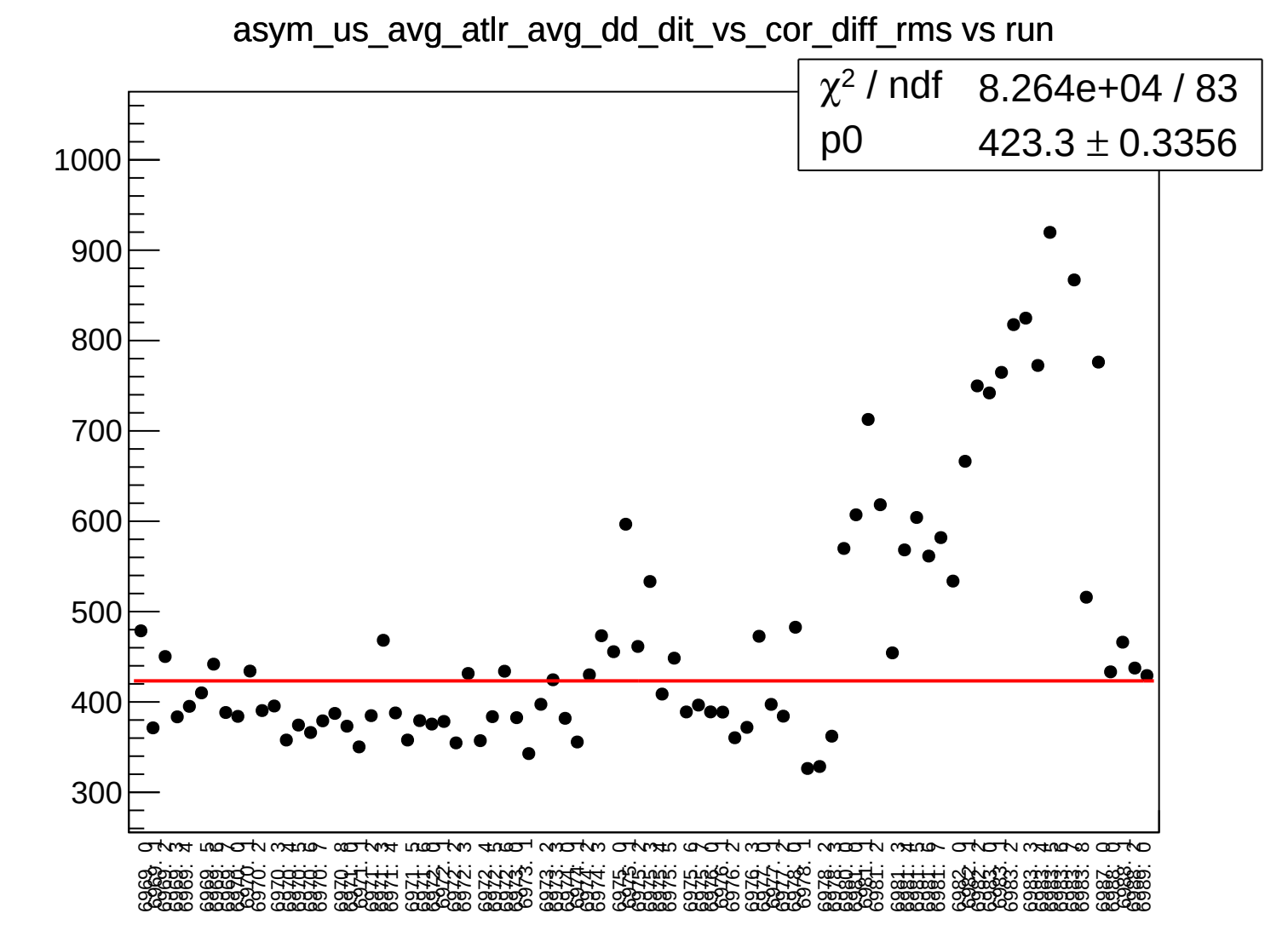

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 5.629e+04 / 83
p0 5056 ± 3.975
7000
6500
6000
5500
5000
4500
4000
3500
3000

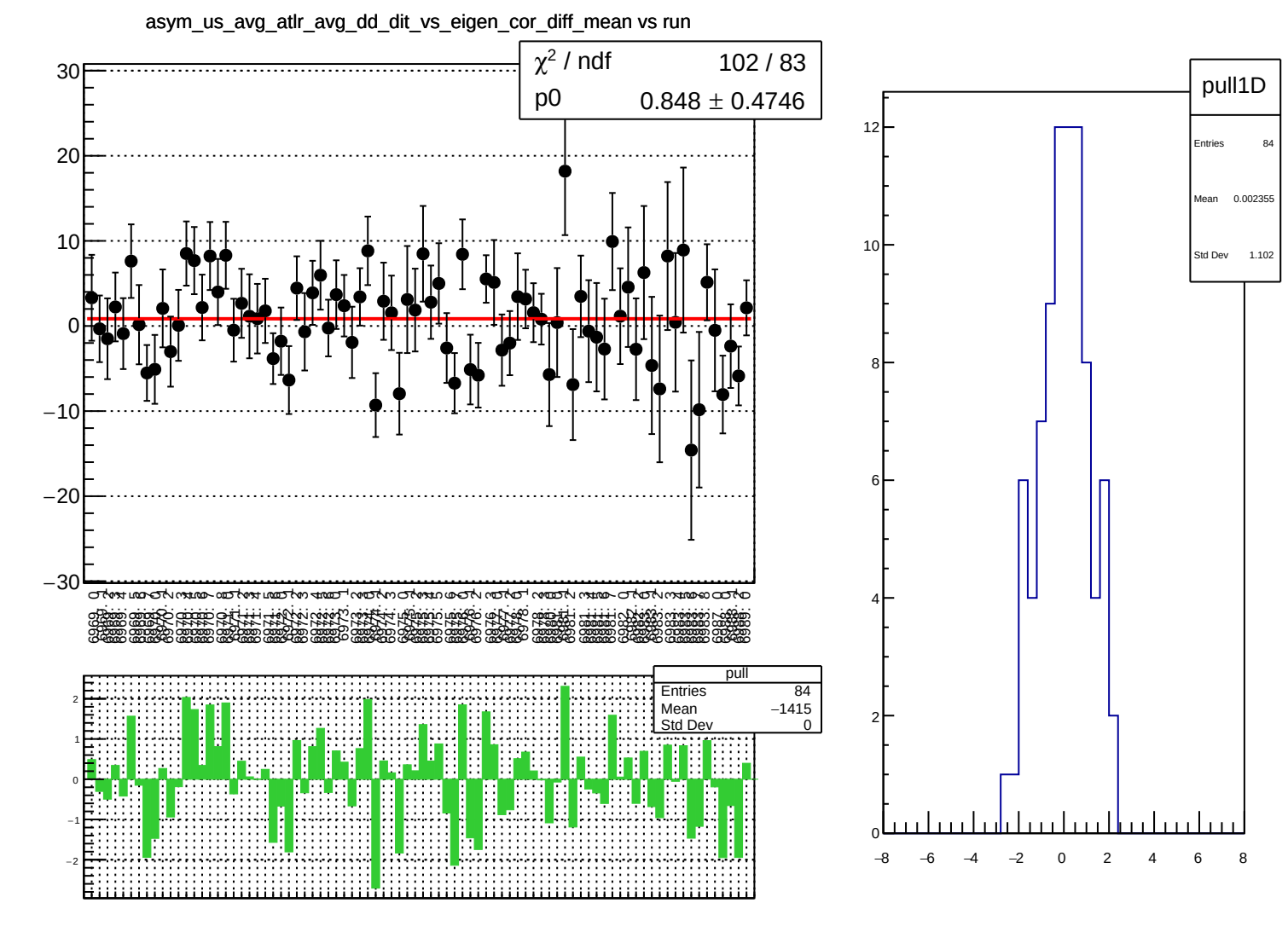

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.52 / 83
p0 2.044e−13 ± 2.318e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 84
Mean 3.2
Std Dev 0
2
1
0
−1
−2

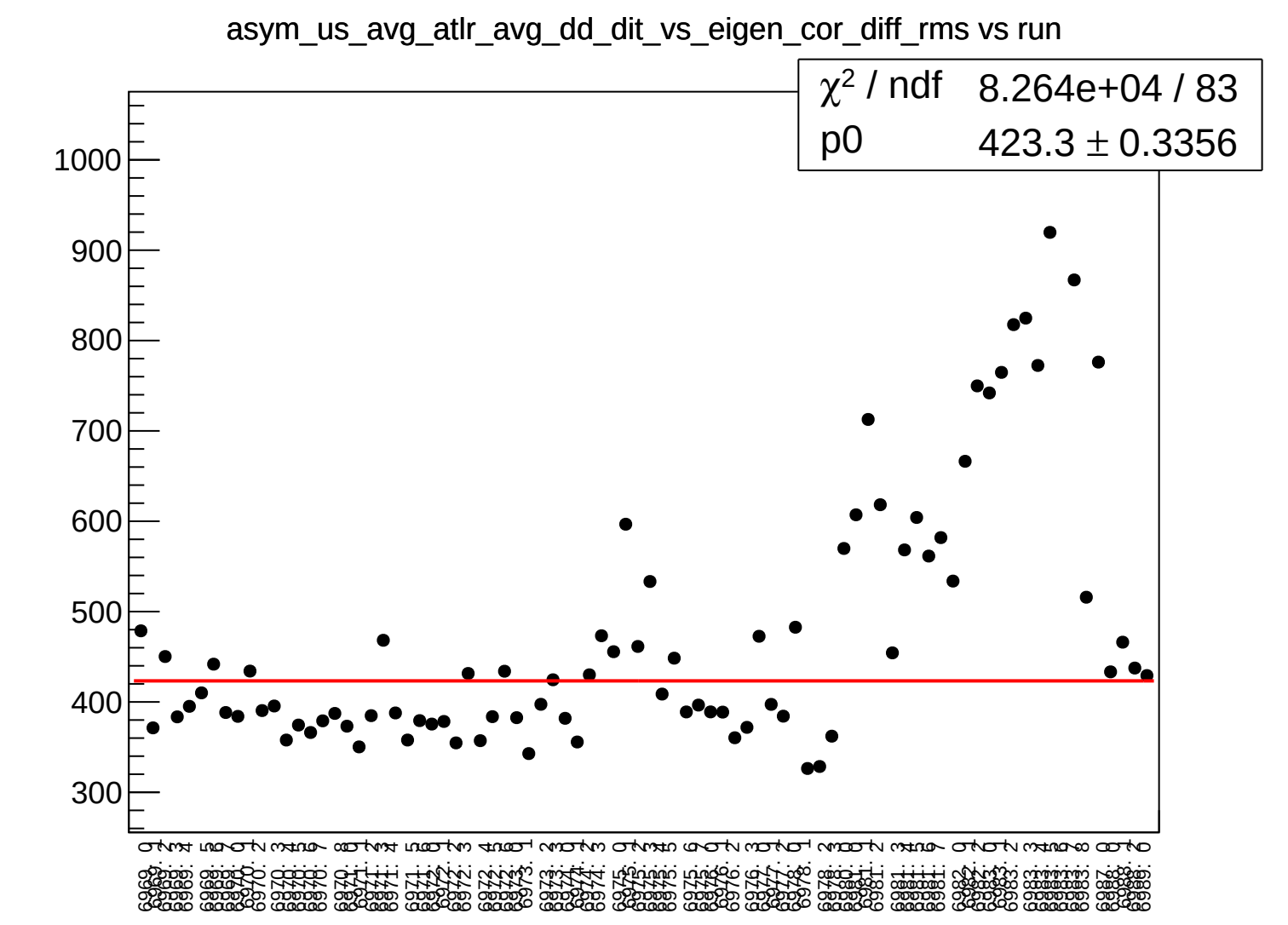

pull1D
Entries 84
Mean −0.09872
Std Dev 0.9741
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

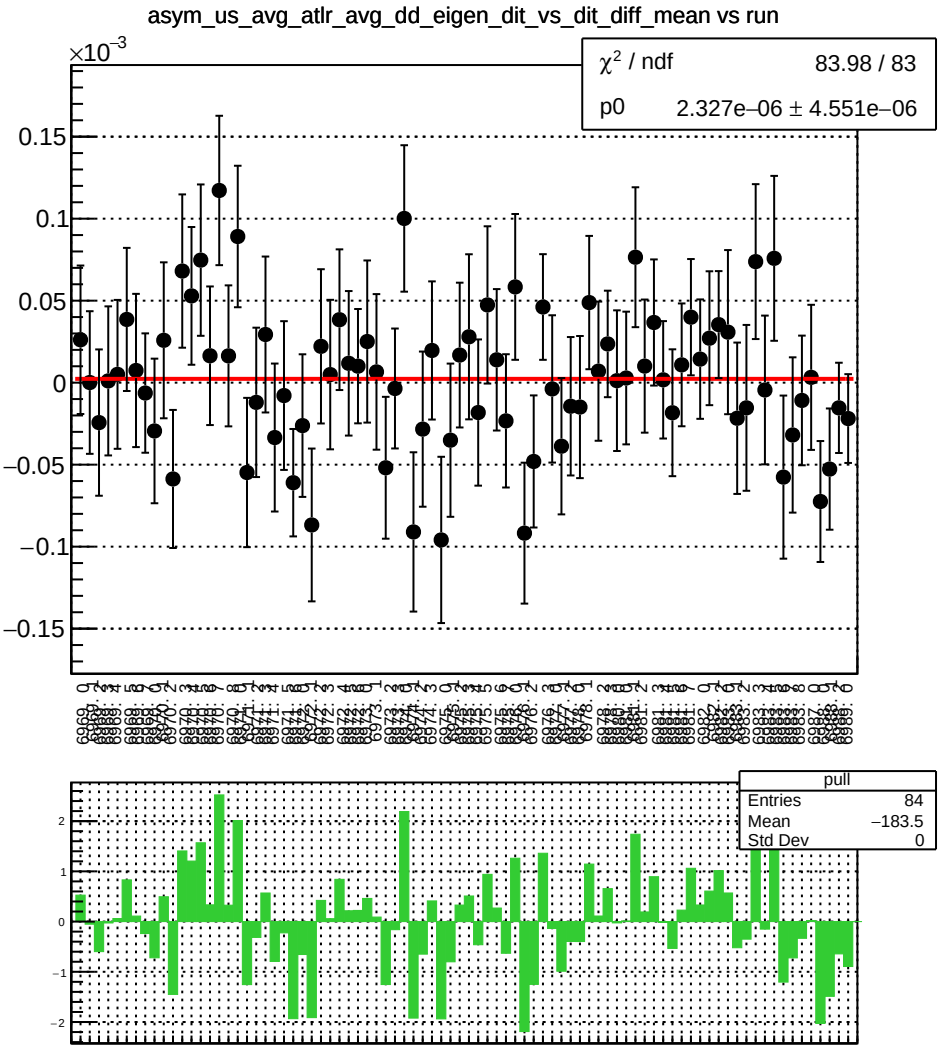

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.03e+06 / 83
p0 1.315e−10 ± 1.639e−13
1
0.8
0.6
0.4
0.2
0

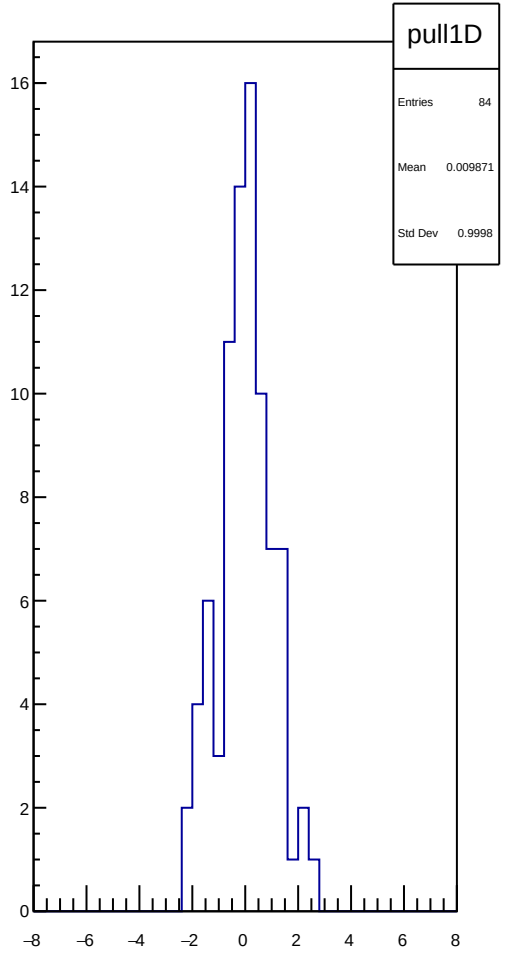

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 83
p0 0.848 ± 0.4746
pull
Entries 84
Mean −1415
Std Dev 0
pull1D
Entries 84
Mean 0.002355
Std Dev 1.102

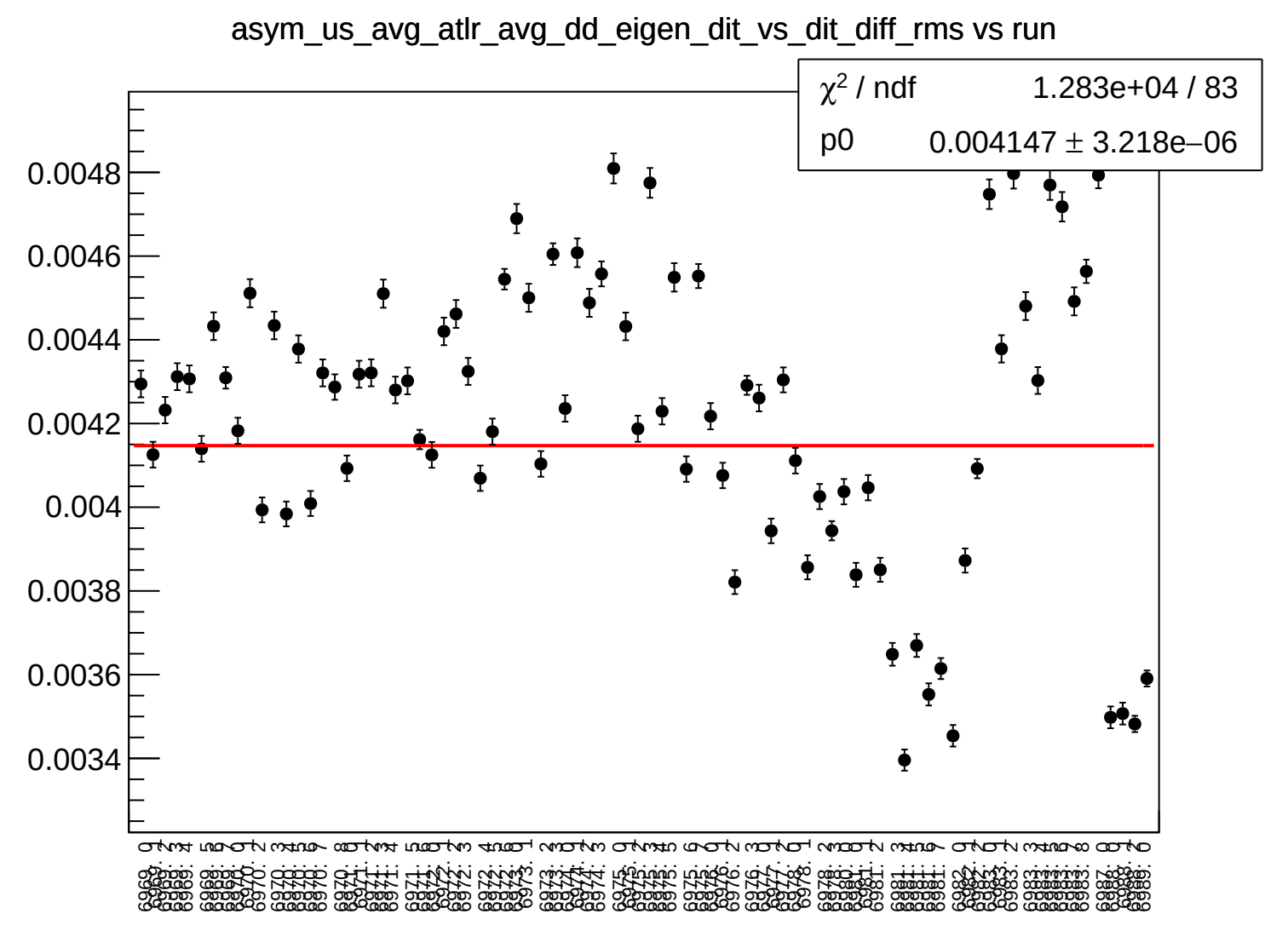

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.264e+04 / 83
p0 423.3 ± 0.3356
1000
900
800
700
600
500
400
300

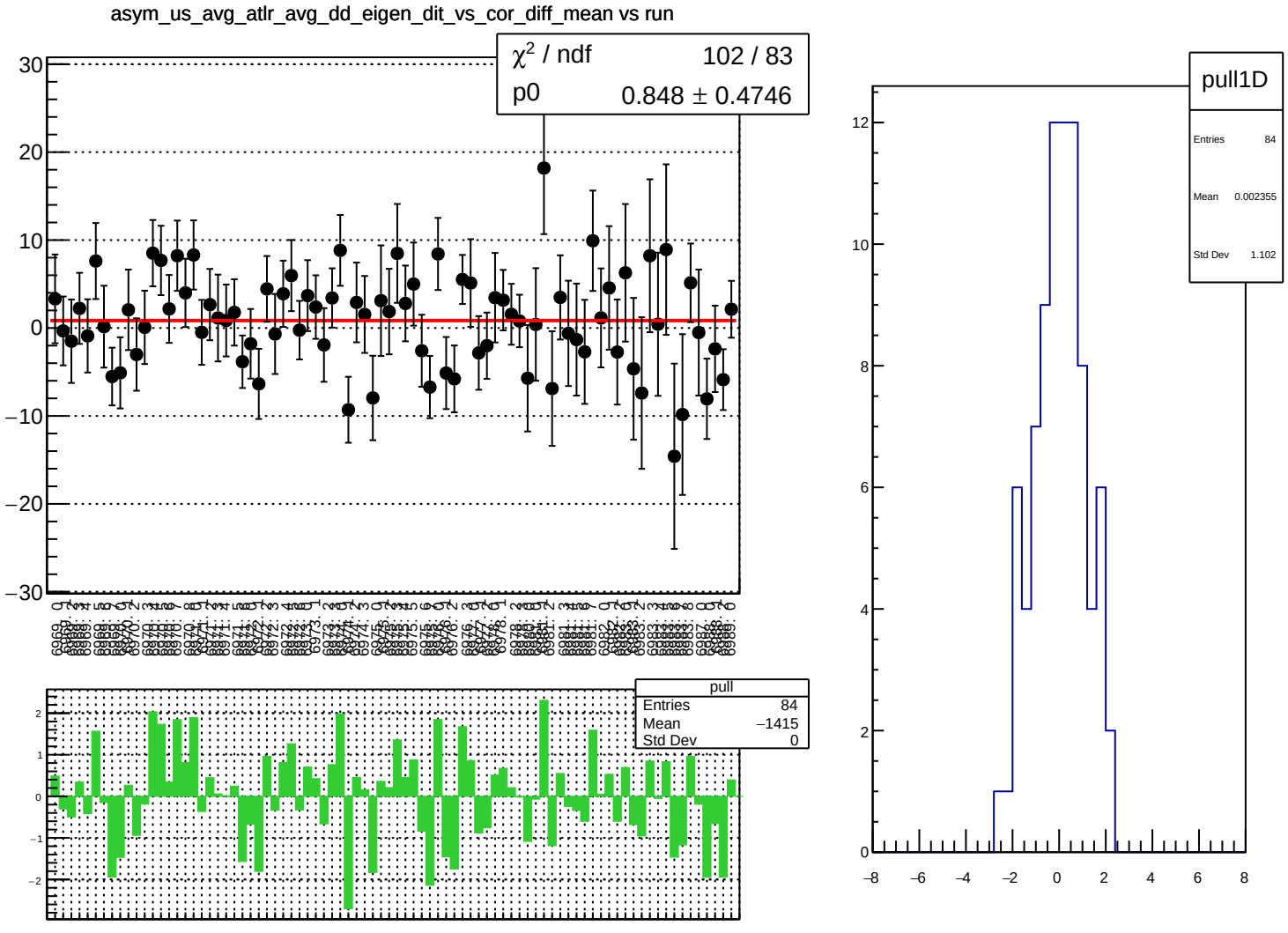

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 83
p0 0.848 ± 0.4746
pull
Entries 84
Mean −1415
Std Dev 0
pull1D
Entries 84
Mean 0.002355
Std Dev 1.102

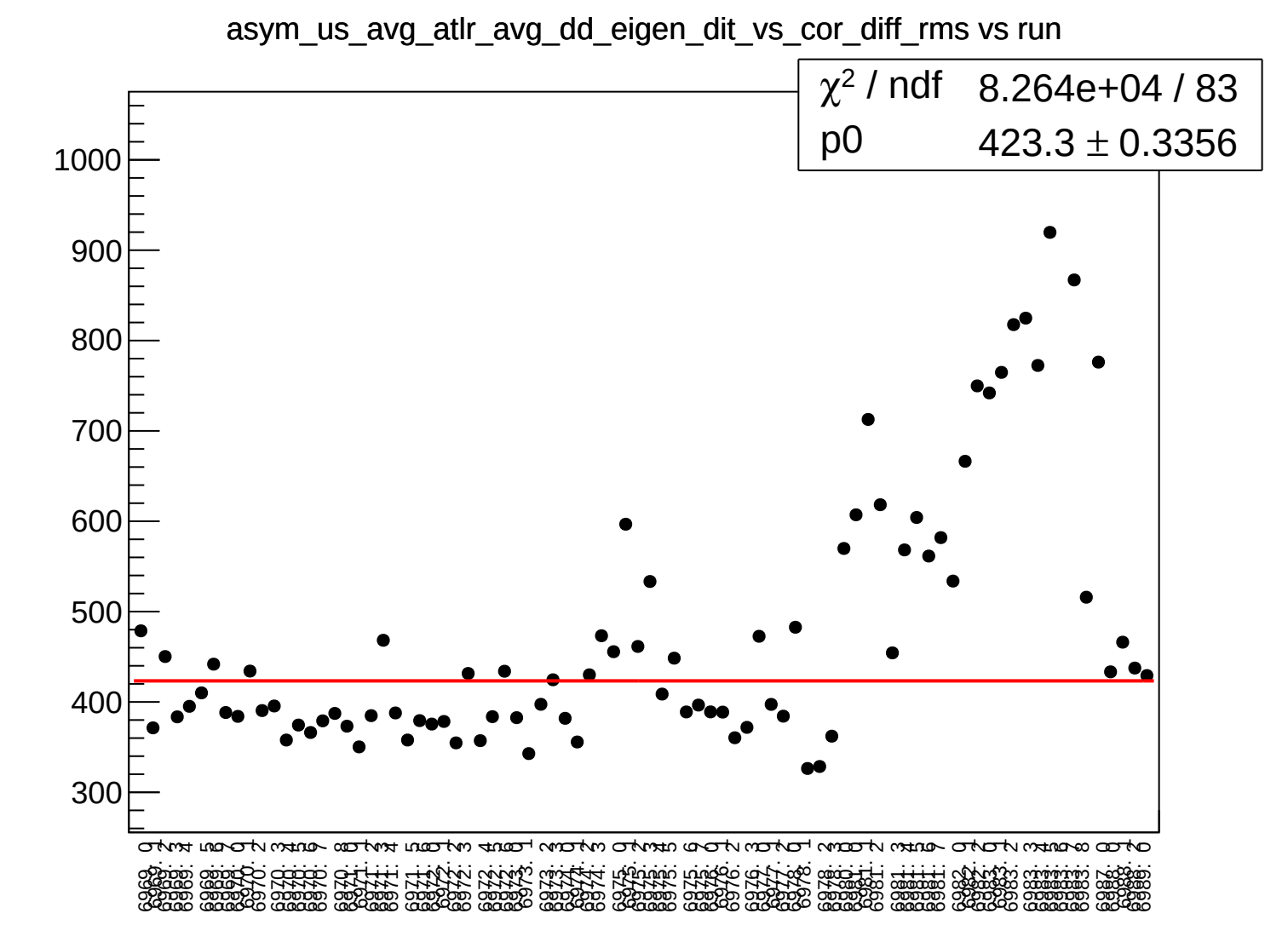

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.264e+04 / 83
p0 423.3 ± 0.3356
1000
900
800
700
600
500
400
300

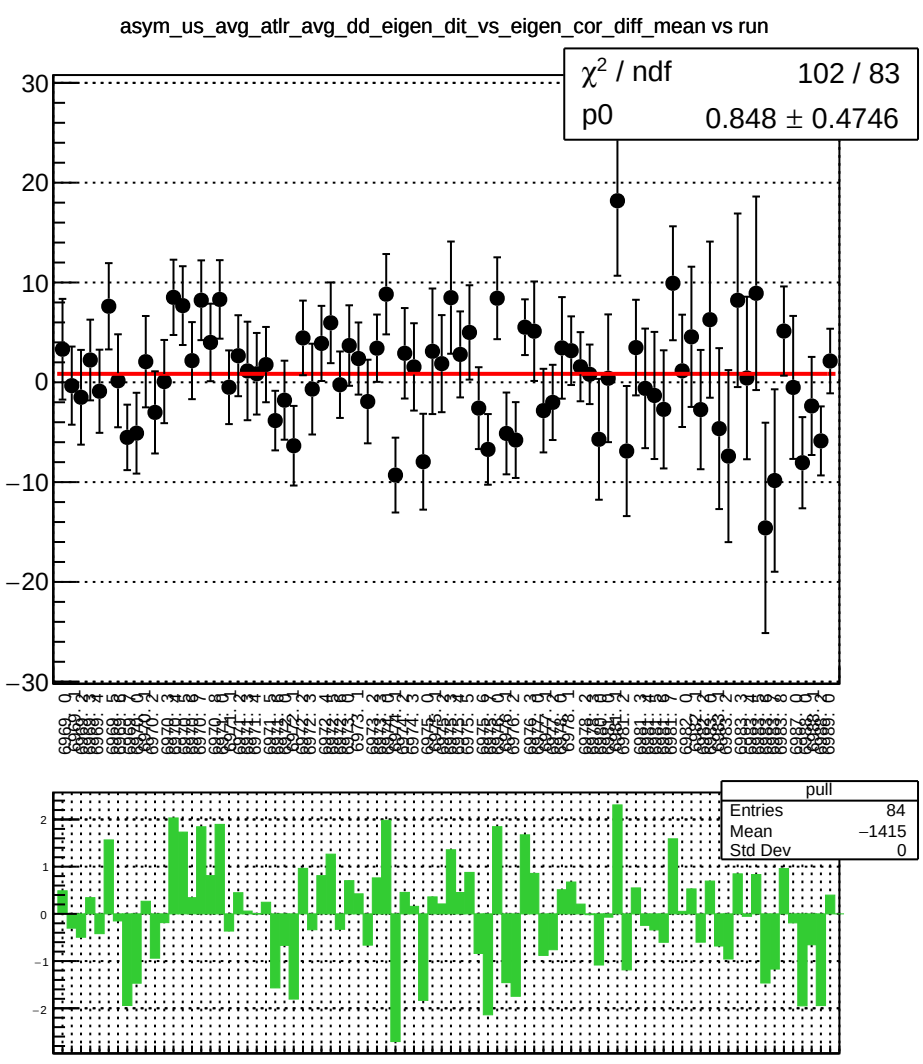

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.98 / 83
p0 2.327e−06 ± 4.551e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean −183.5
Std Dev 0
2
1
0
−1
−2

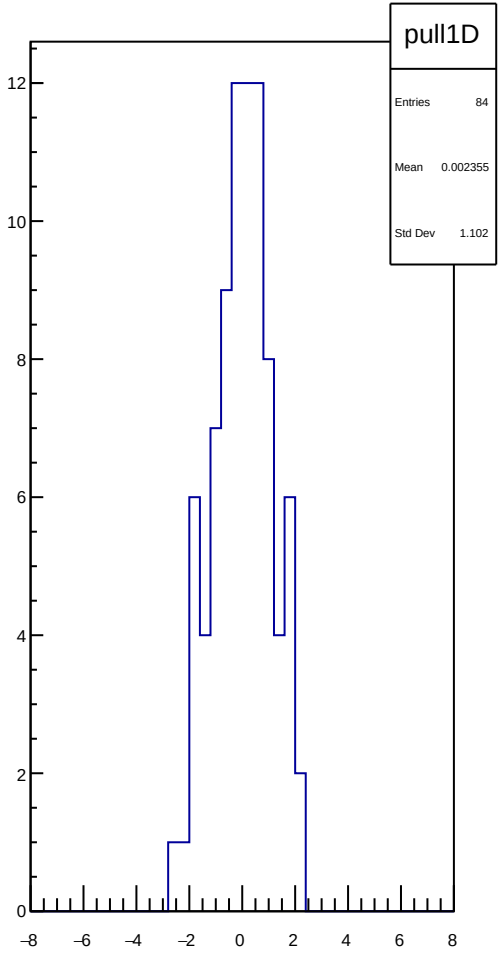

pull1D
Entries 84
Mean 0.009871
Std Dev 0.9998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

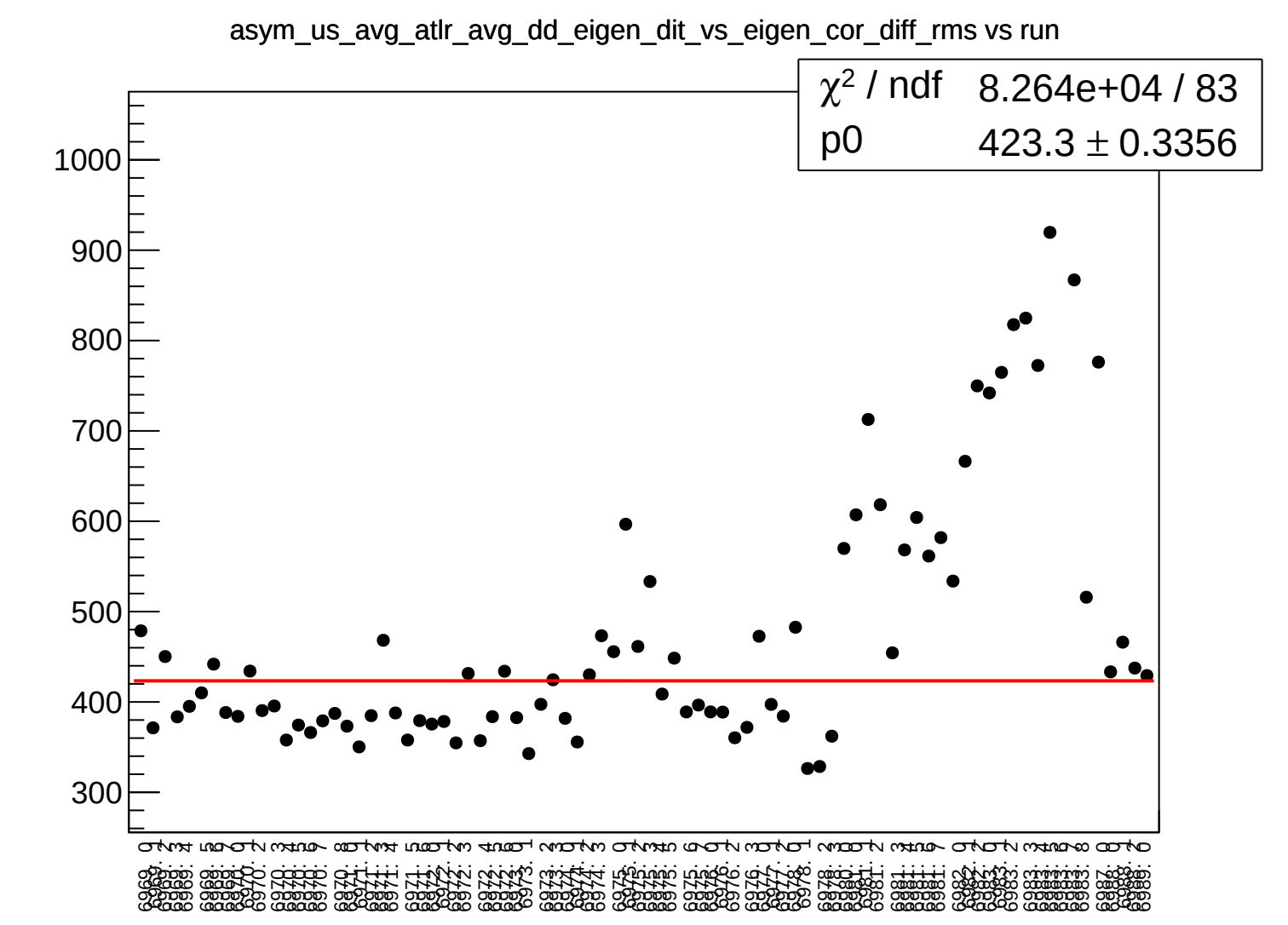

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.283e+04 / 83
p0 0.004147 ± 3.218e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

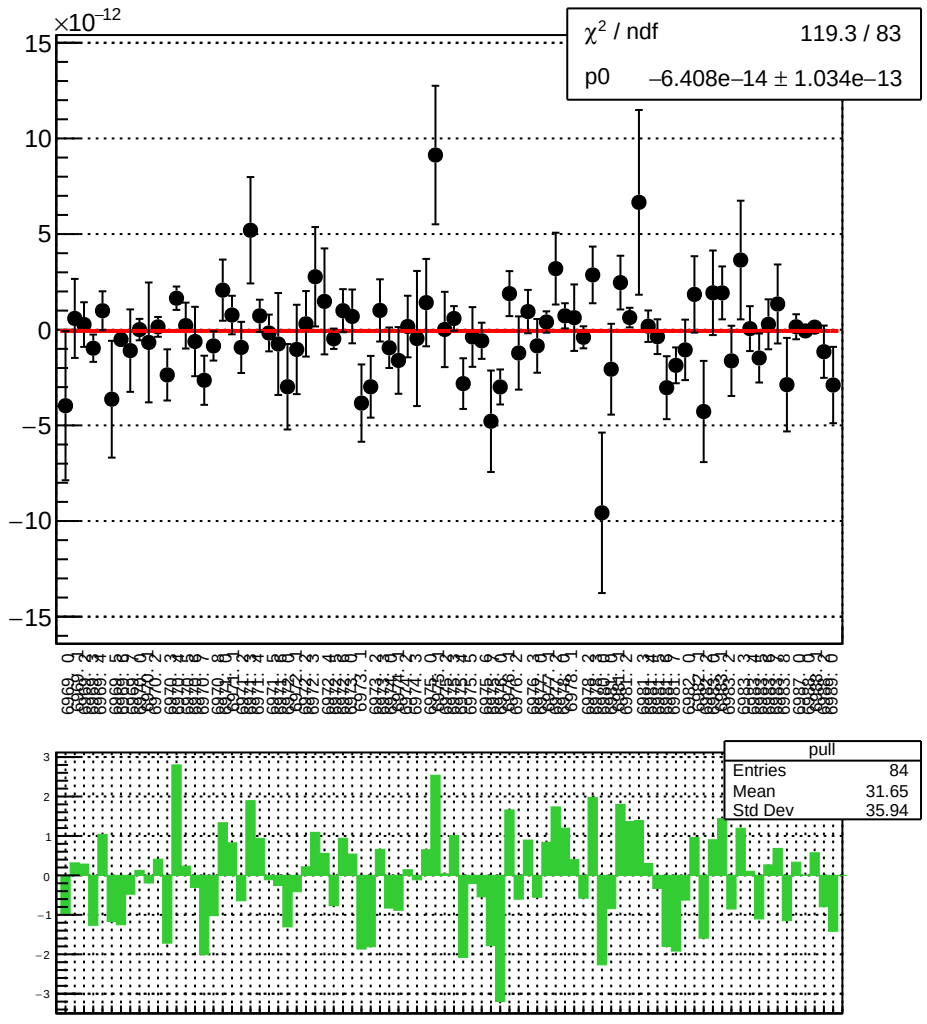

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 83
p0 0.848 ± 0.4746
pull
Entries 84
Mean −1415
Std Dev 0
pull1D
Entries 84
Mean 0.002355
Std Dev 1.102

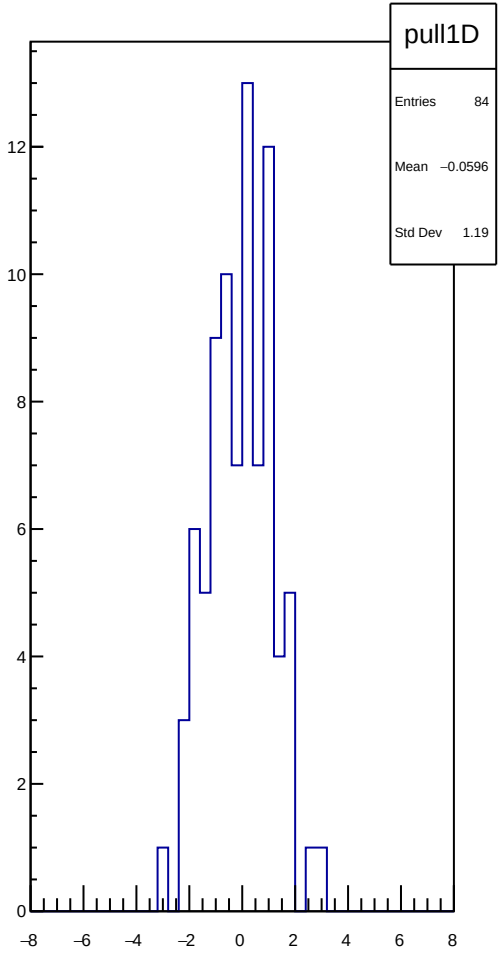

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.264e+04 / 83
p0 423.3 ± 0.3356
1000
900
800
700
600
500
400
300

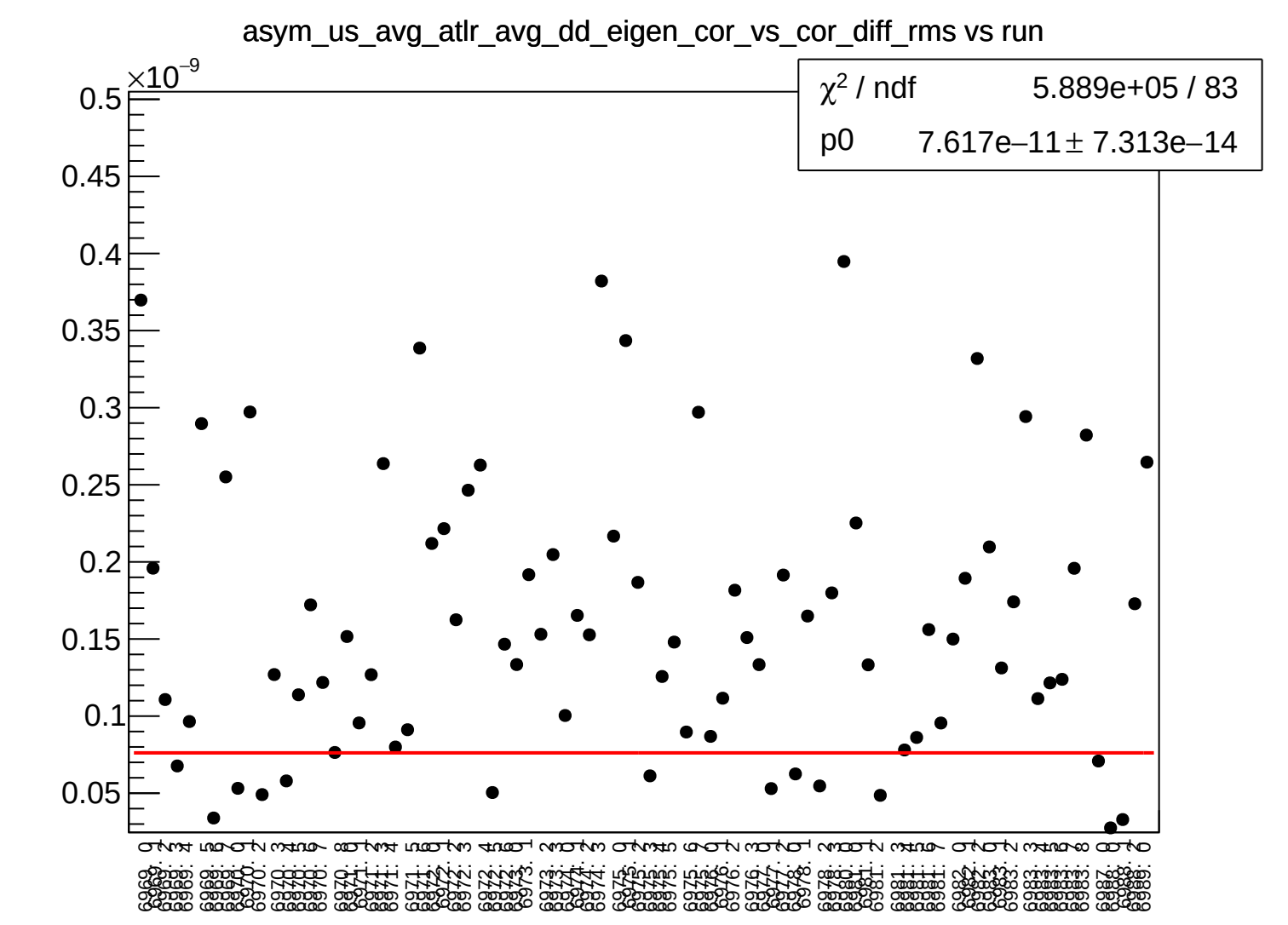

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 83
p0 0.848 ± 0.4746
pull
Entries 84
Mean −1415
Std Dev 0

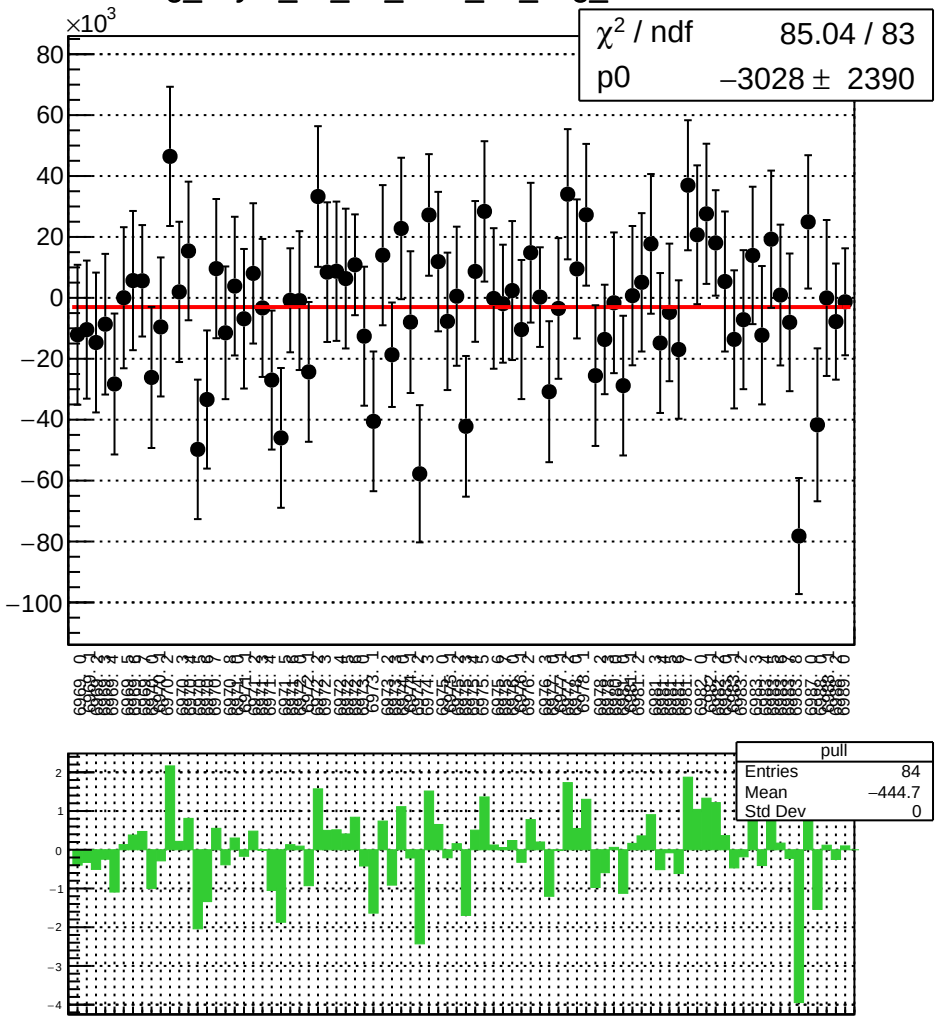

pull1D
Entries 84
Mean 0.002355
Std Dev 1.102

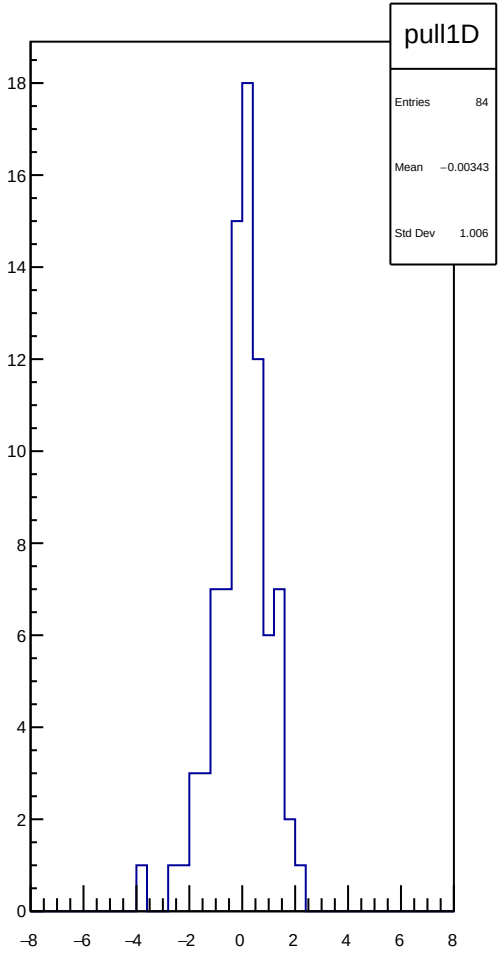

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.264e+04 / 83
p0 423.3 ± 0.3356
1000
900
800
700
600
500
400
300

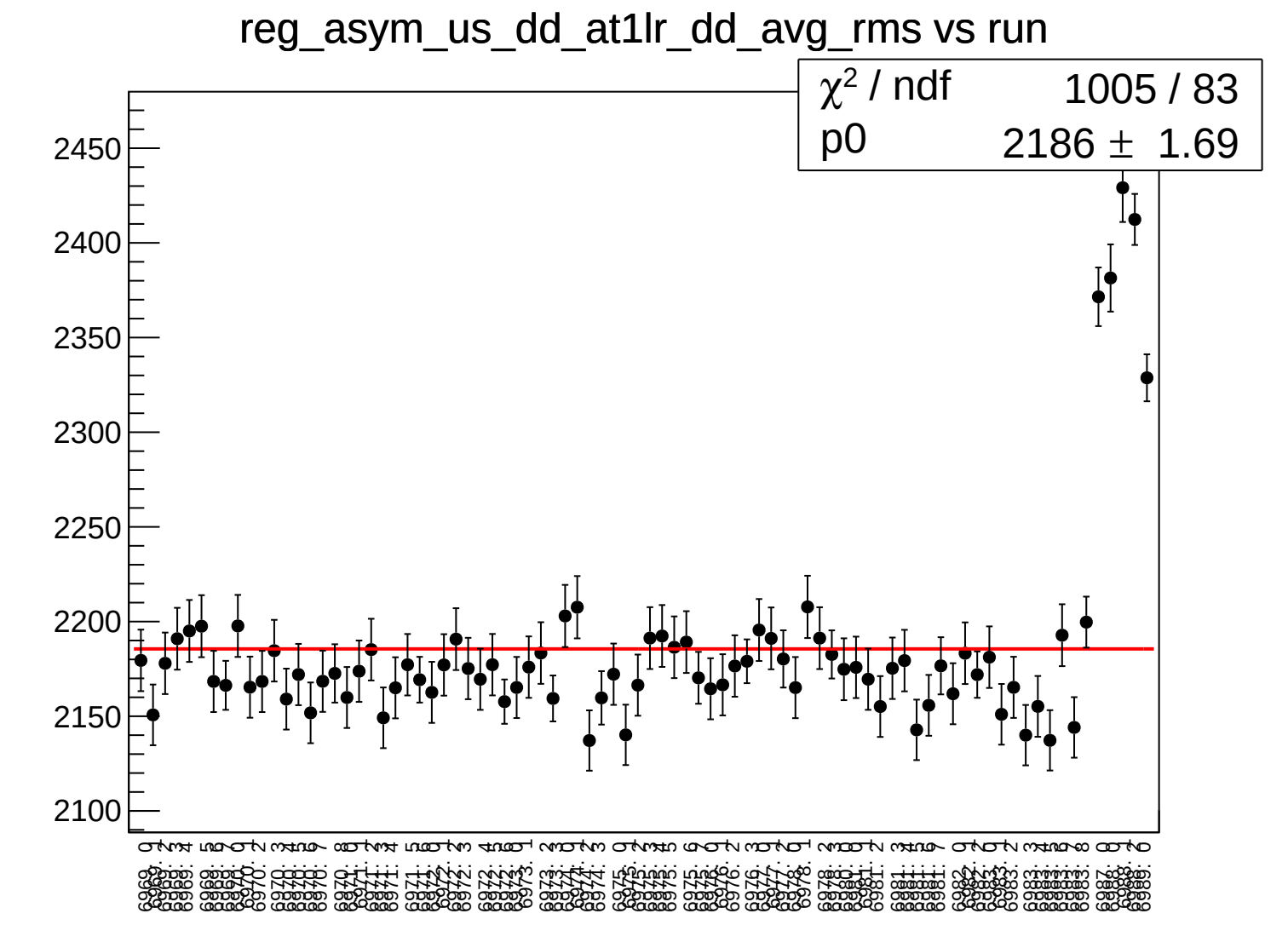

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 119.3 / 83
p0 −6.408e−14 ± 1.034e−13
pull
Entries 84
Mean 31.65
Std Dev 35.94

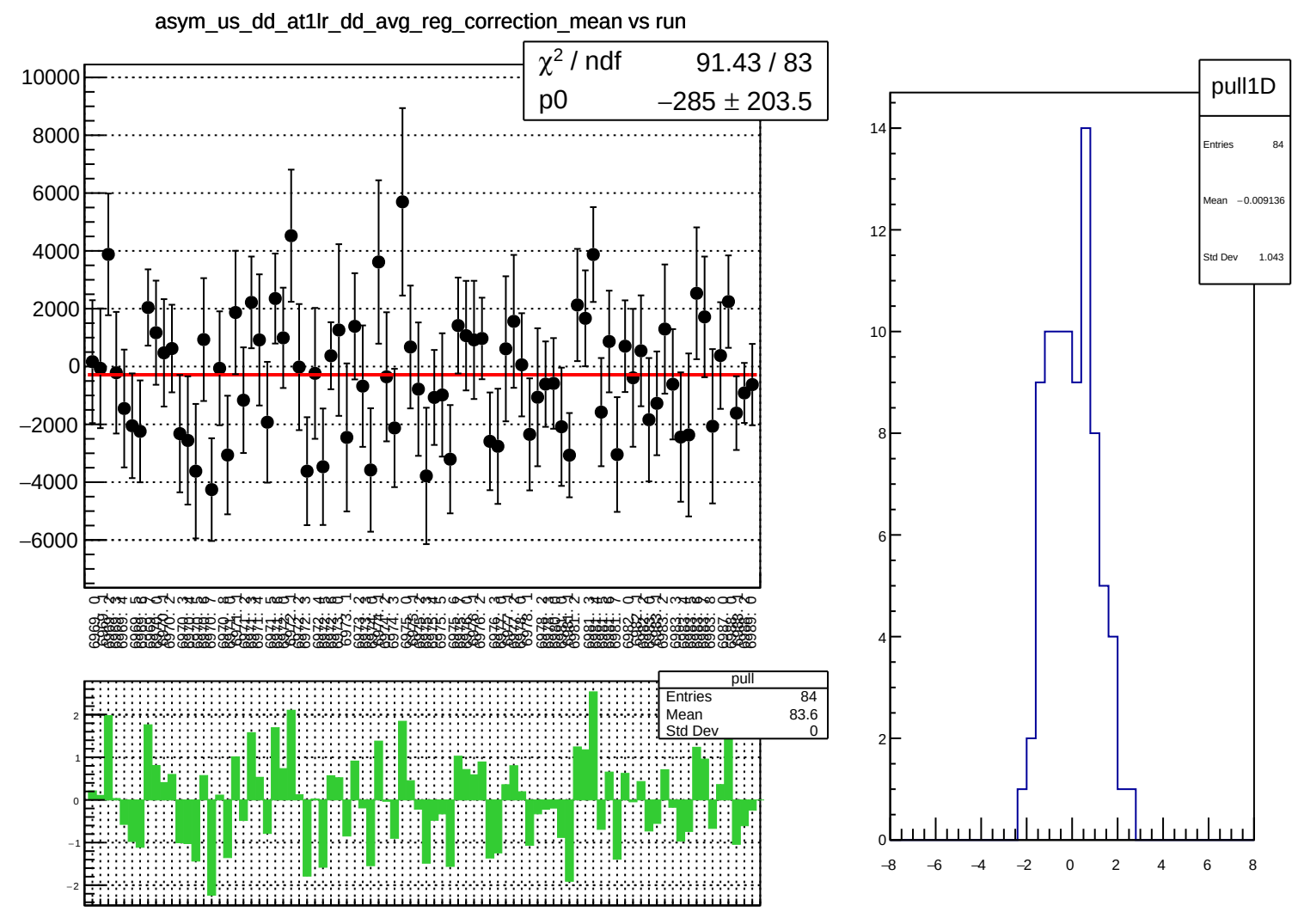

pull1D
Entries 84
Mean −0.0596
Std Dev 1.19

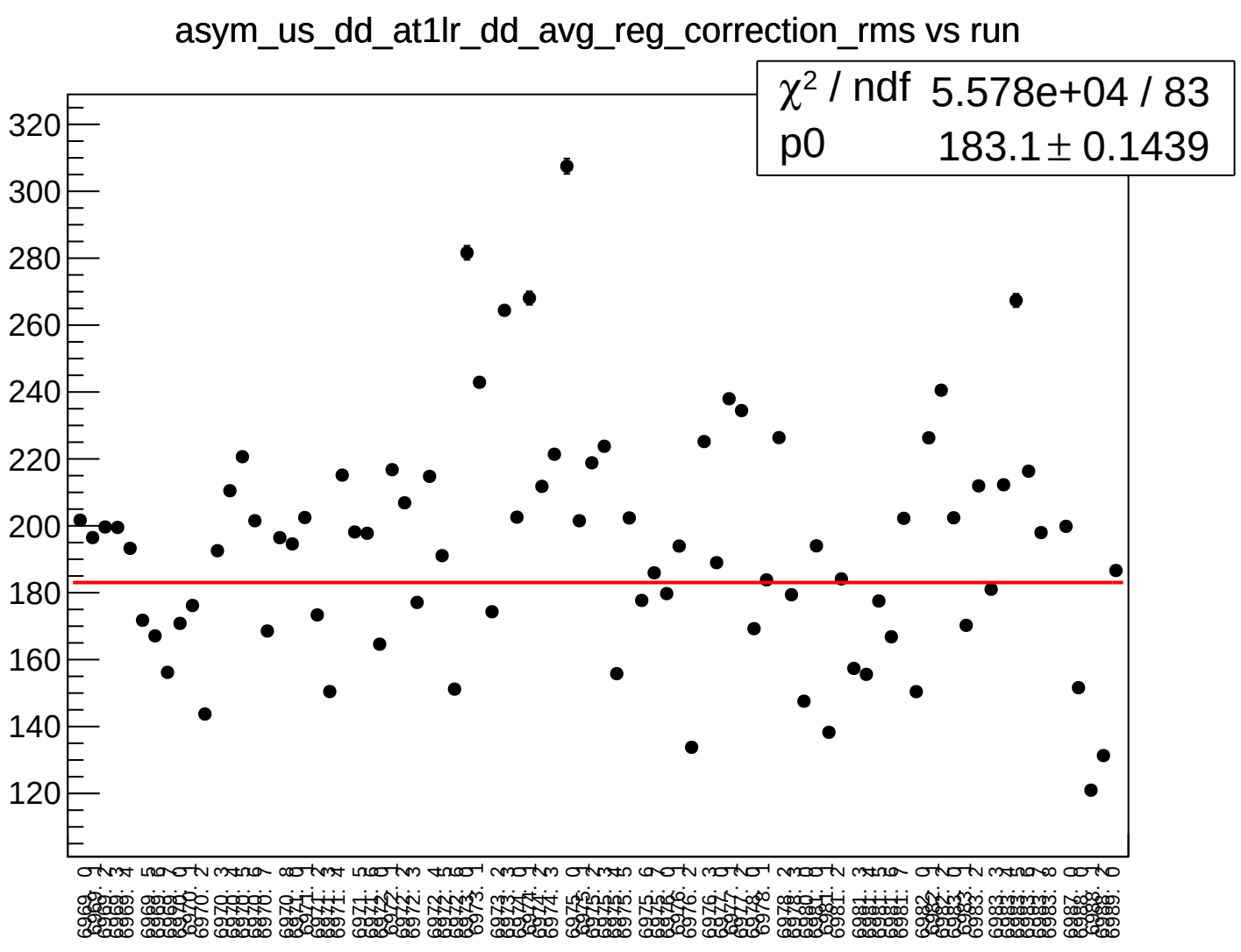

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.889e+05 / 83
p0 7.617e−11 ± 7.313e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

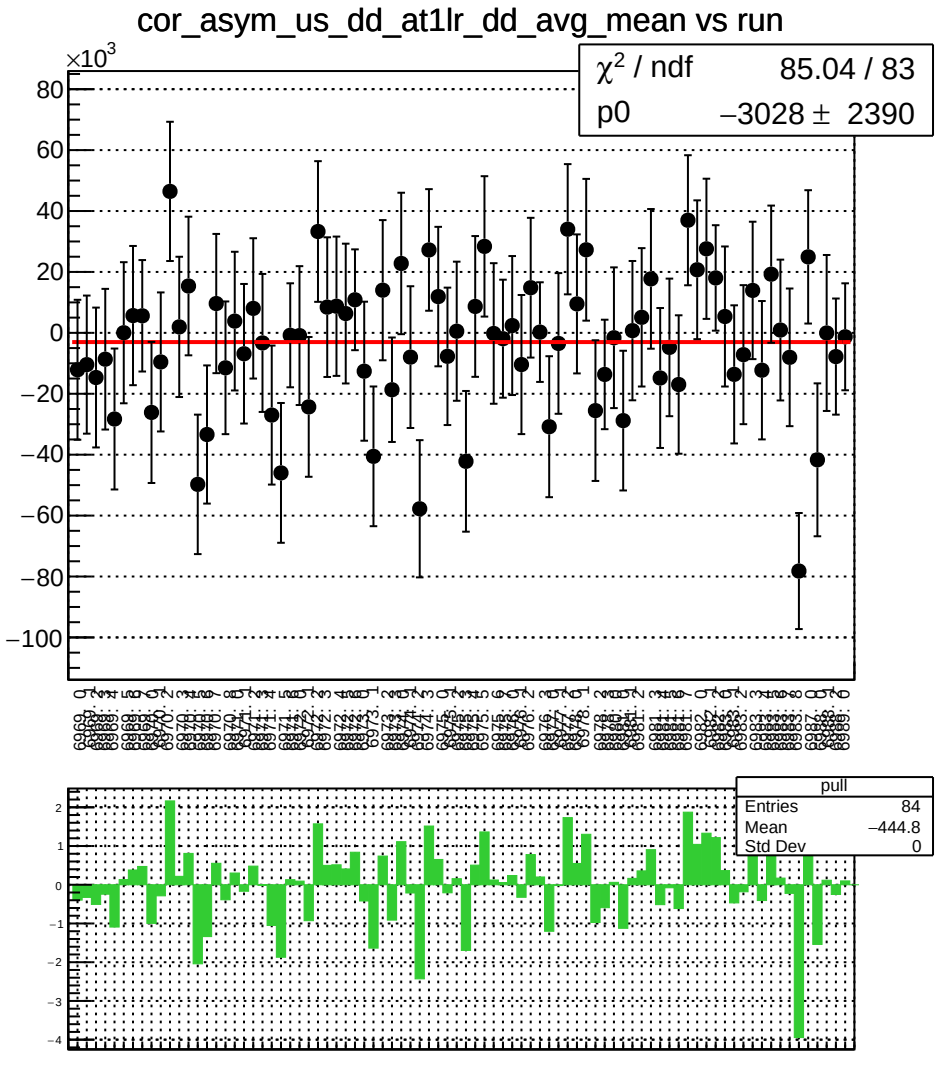

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 85.04 / 83
p0 −3028 ± 2390
pull
Entries 84
Mean −444.7
Std Dev 0

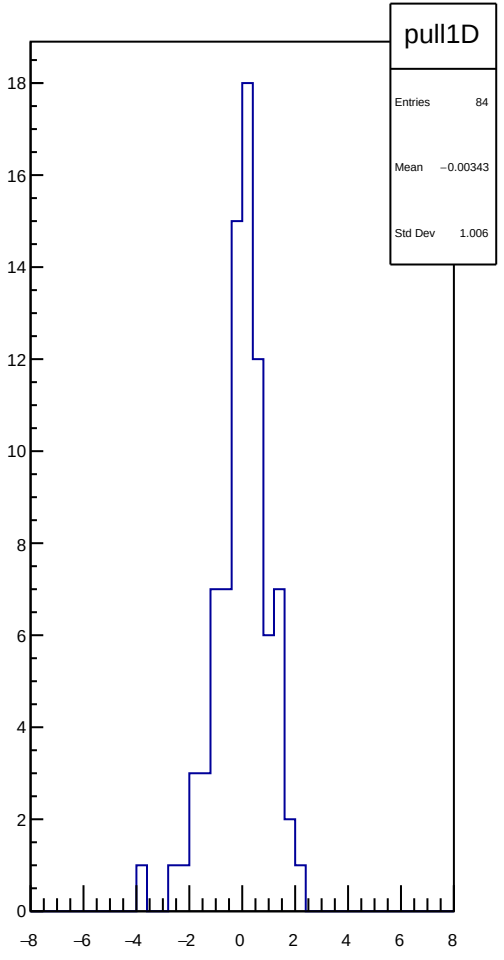

pull1D
Entries 84
Mean −0.00343
Std Dev 1.006

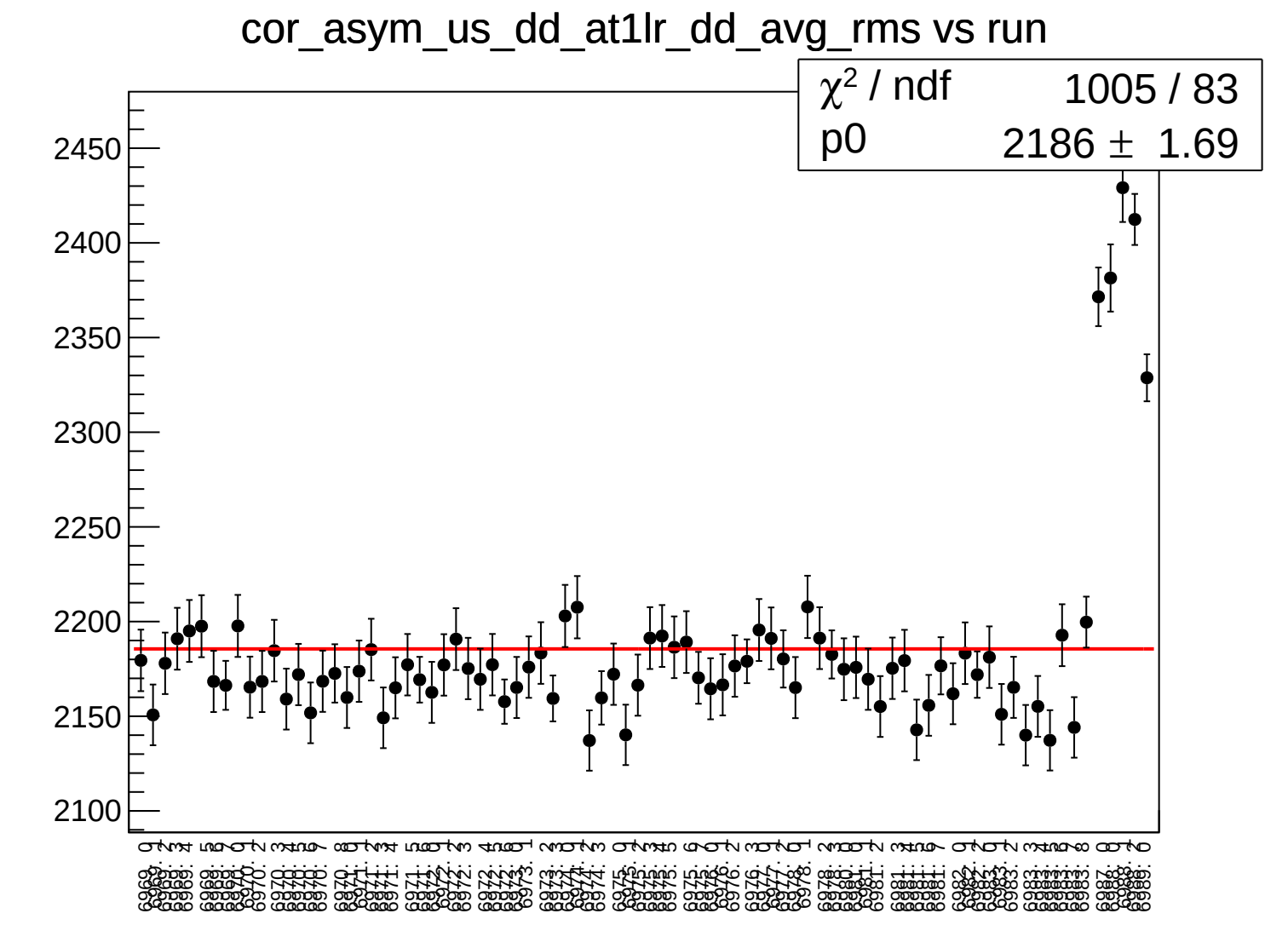

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1005 / 83
p0 2186 ± 1.69
2450
2400
2350
2300
2250
2200
2150
2100

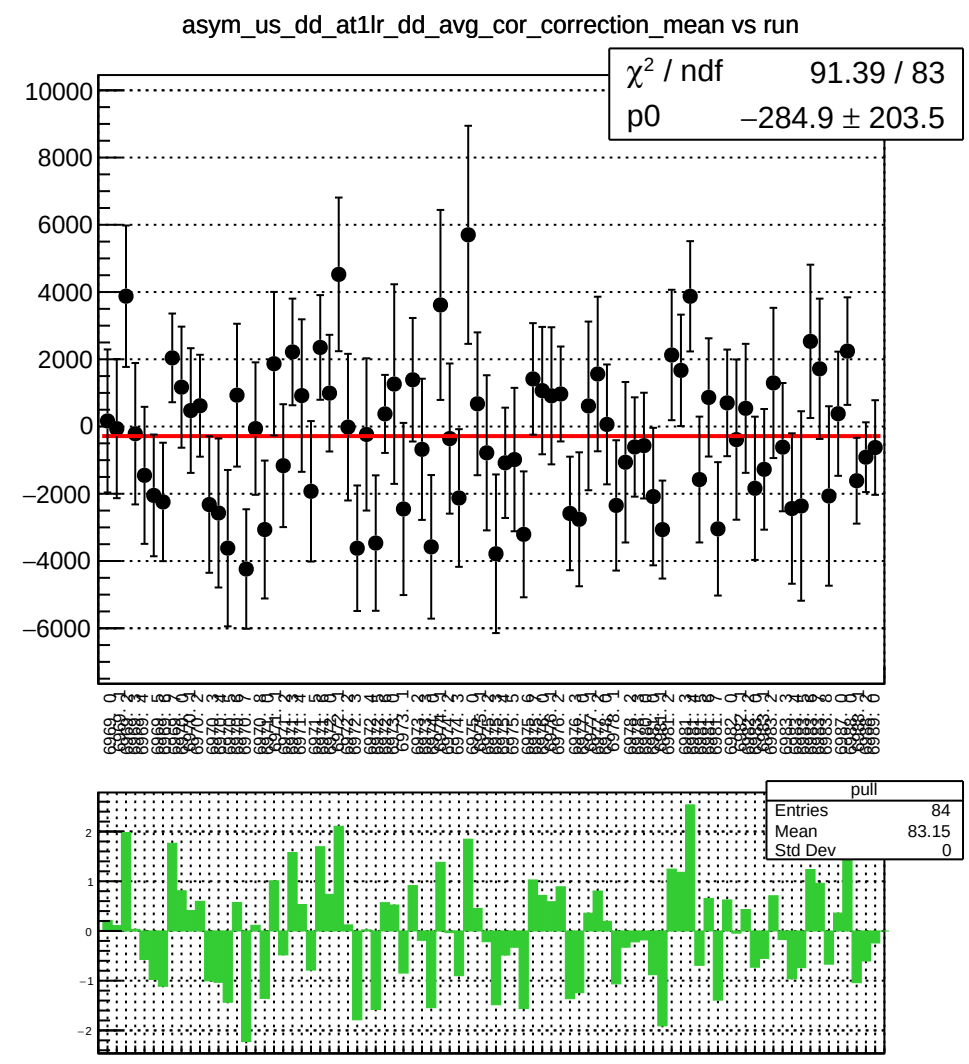

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 91.43 / 83
p0 −285 ± 203.5
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 83.6
Std Dev 0
pull1D
Entries 84
Mean −0.009136
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

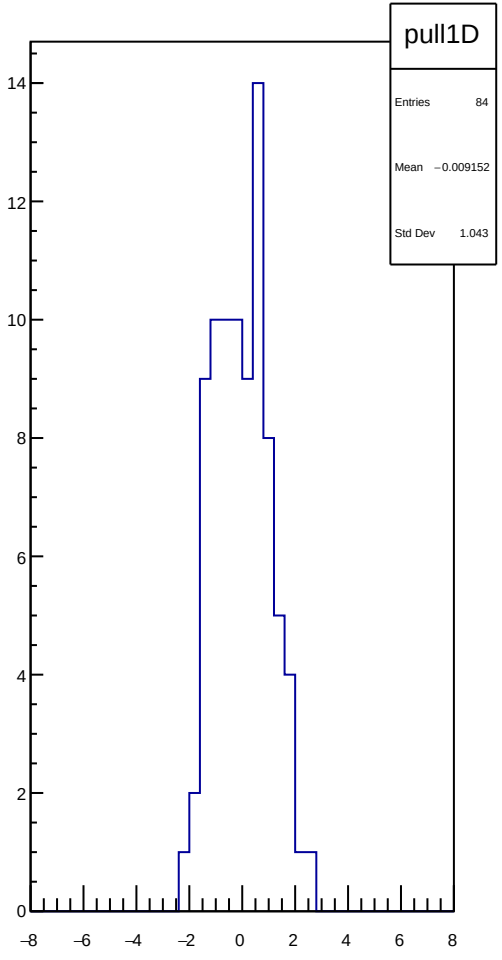

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 5.578e+04 / 83
p0 183.1 ± 0.1439
320
300
280
260
240
220
200
180
160
140
120

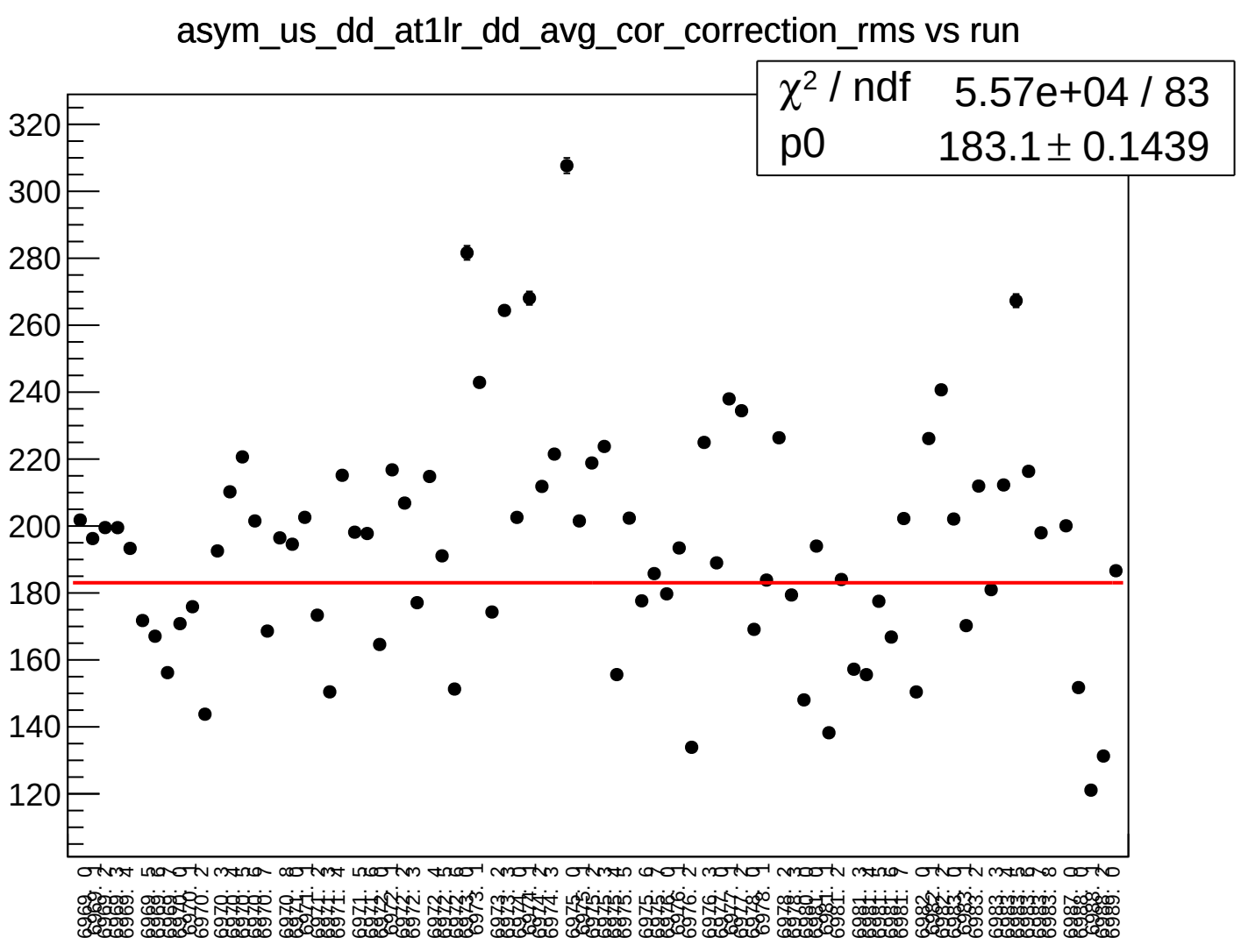

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 85.04 / 83
p0 −3028 ± 2390
pull
Entries 84
Mean −444.8
Std Dev 0

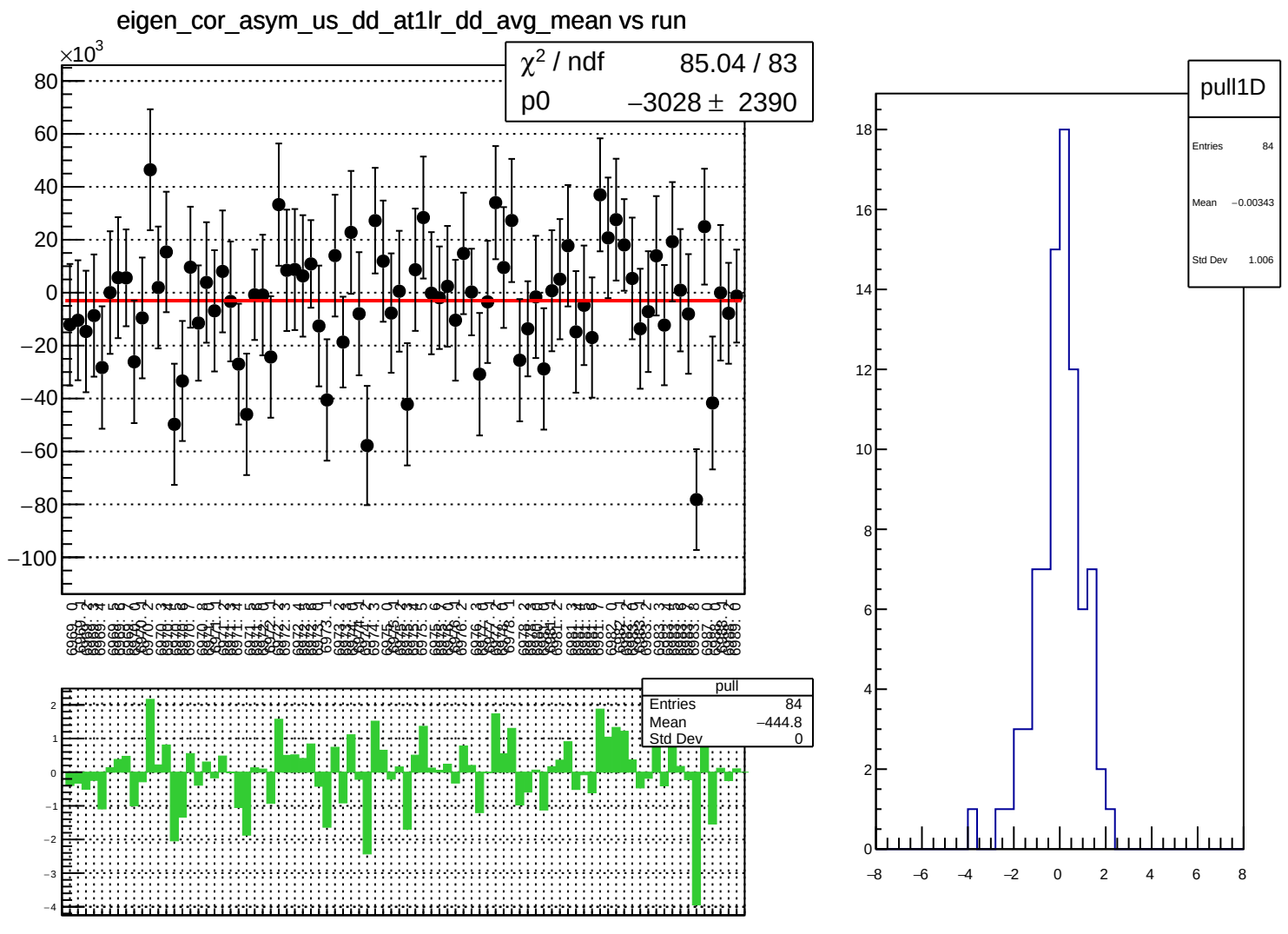

pull1D
Entries 84
Mean −0.00343
Std Dev 1.006

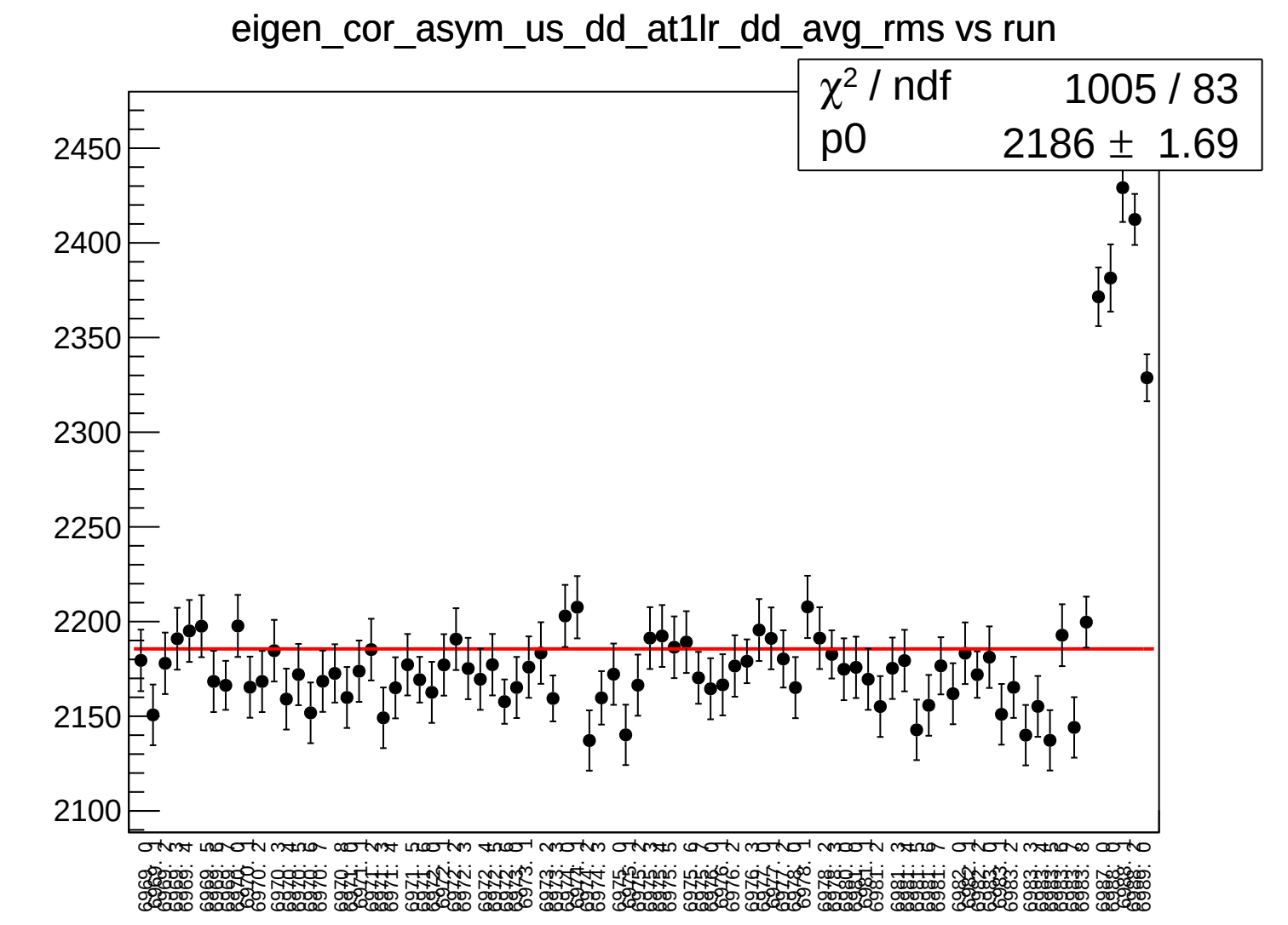

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1005 / 83
p0 2186 ± 1.69
2450
2400
2350
2300
2250
2200
2150
2100

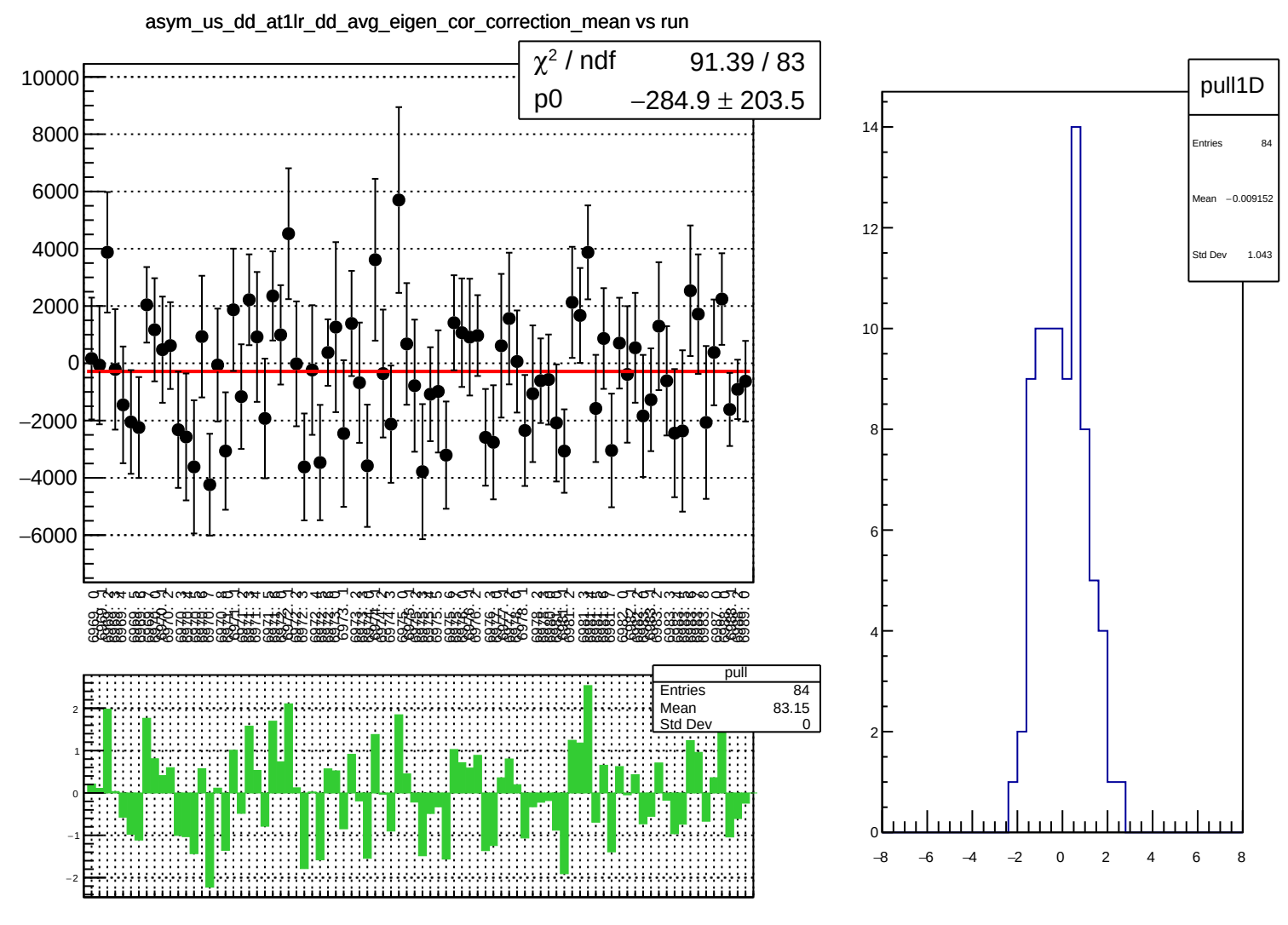

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 91.39 / 83
p0 −284.9 ± 203.5
pull
Entries 84
Mean 83.15
Std Dev 0

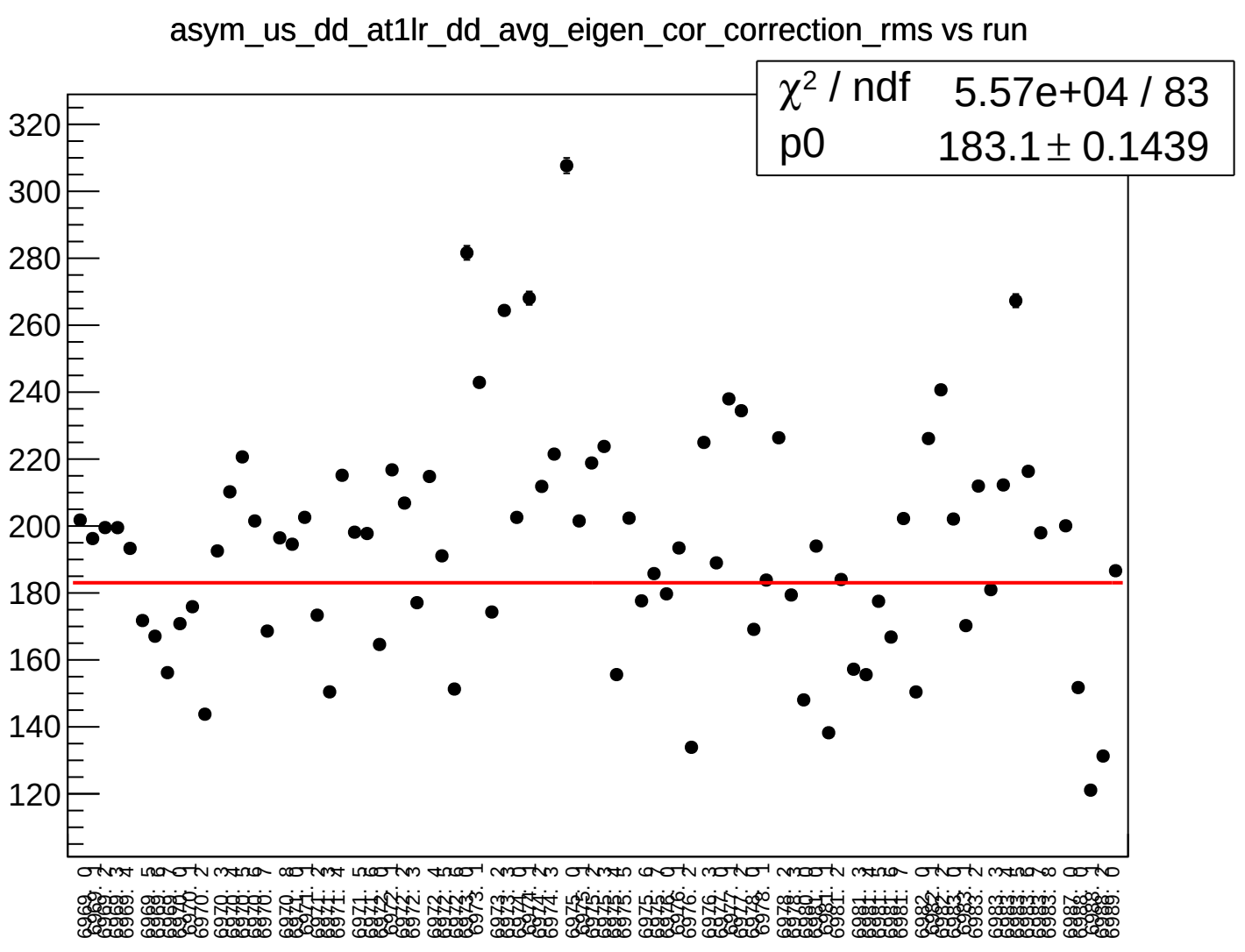

pull1D
Entries 84
Mean −0.009152
Std Dev 1.043

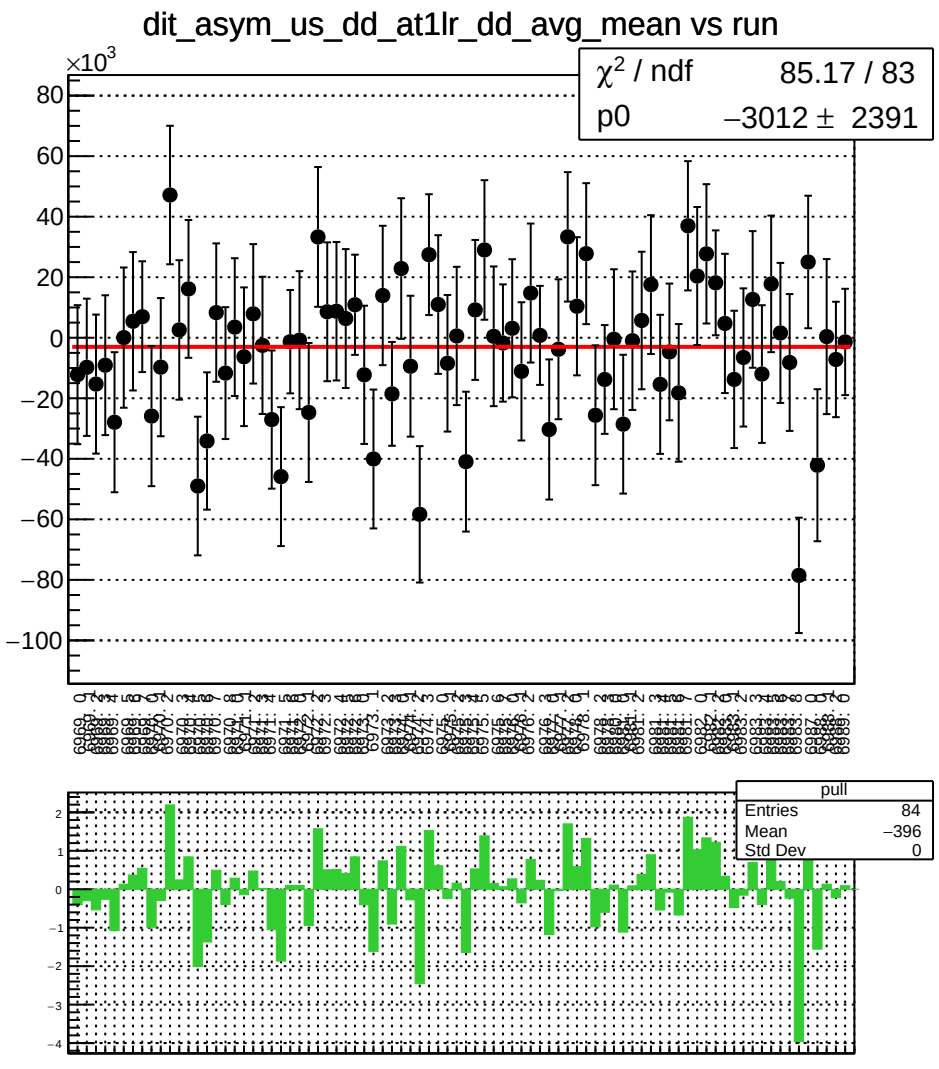

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 5.57e+04 / 83
p0 183.1 ± 0.1439
320
300
280
260
240
220
200
180
160
140
120

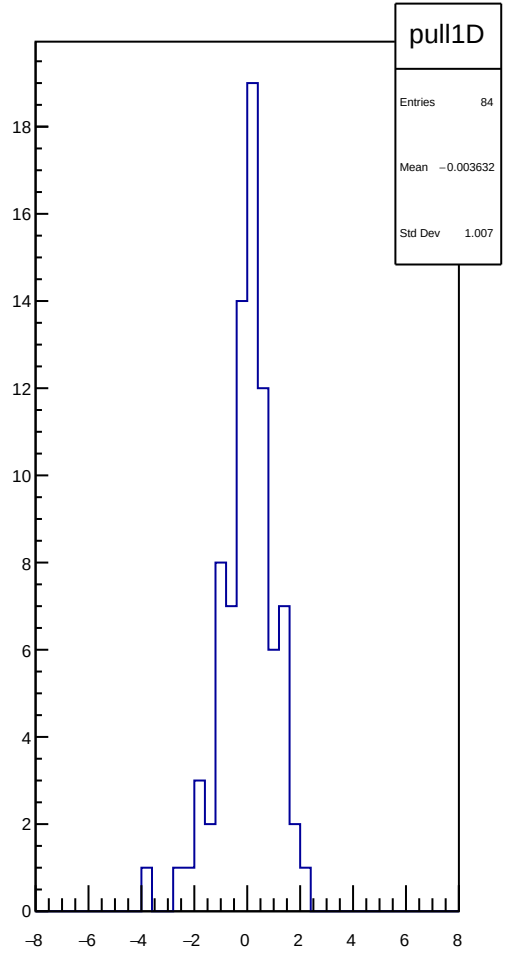

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 85.04 / 83
p0 −3028 ± 2390
pull
Entries 84
Mean −444.8
Std Dev 0
pull1D
Entries 84
Mean −0.00343
Std Dev 1.006

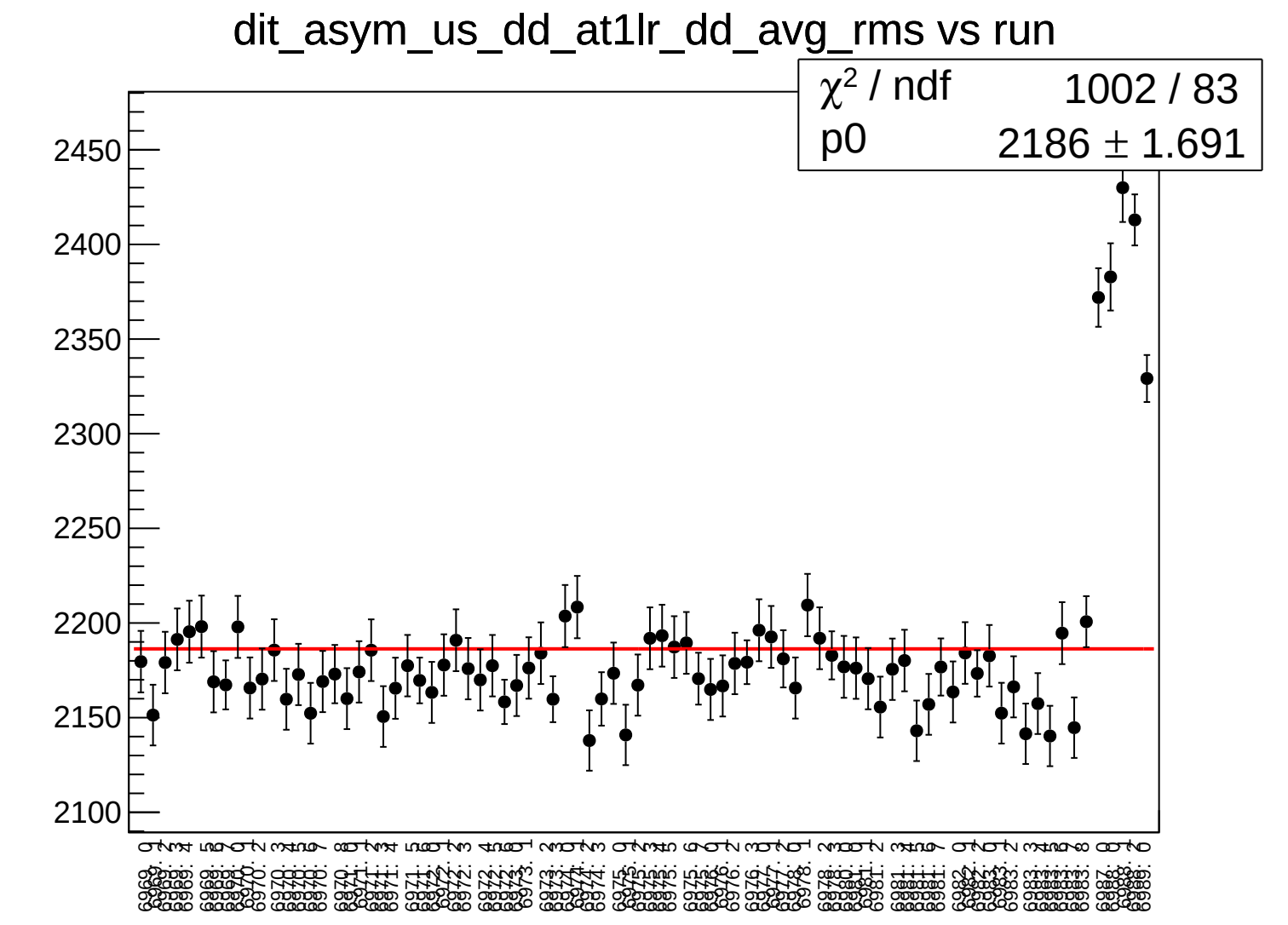

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1005 / 83
p0 2186 ± 1.69
2450
2400
2350
2300
2250
2200
2150
2100

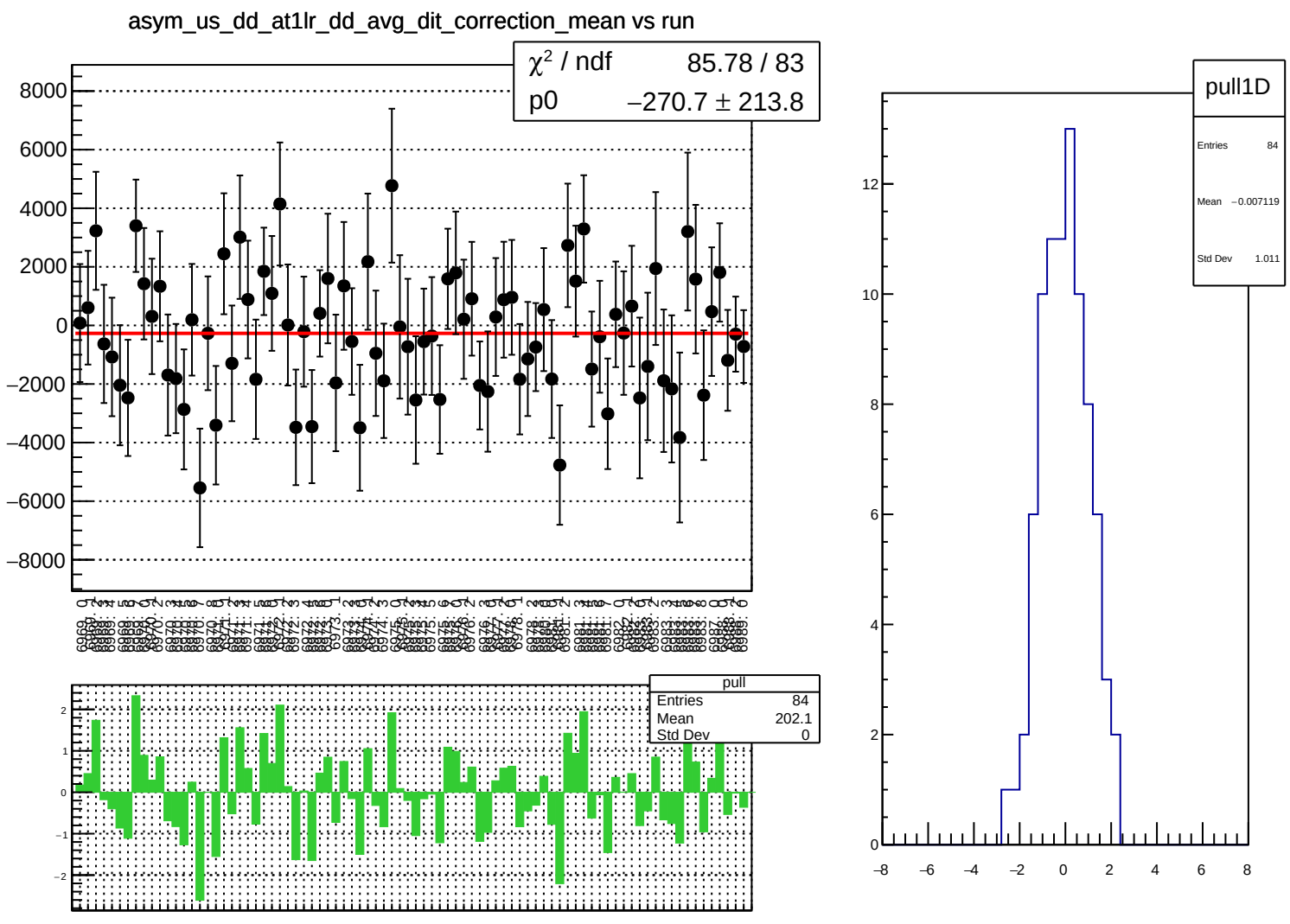

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.39 / 83
p0 −284.9 ± 203.5
pull
Entries 84
Mean 83.15
Std Dev 0
pull1D
Entries 84
Mean −0.009152
Std Dev 1.043

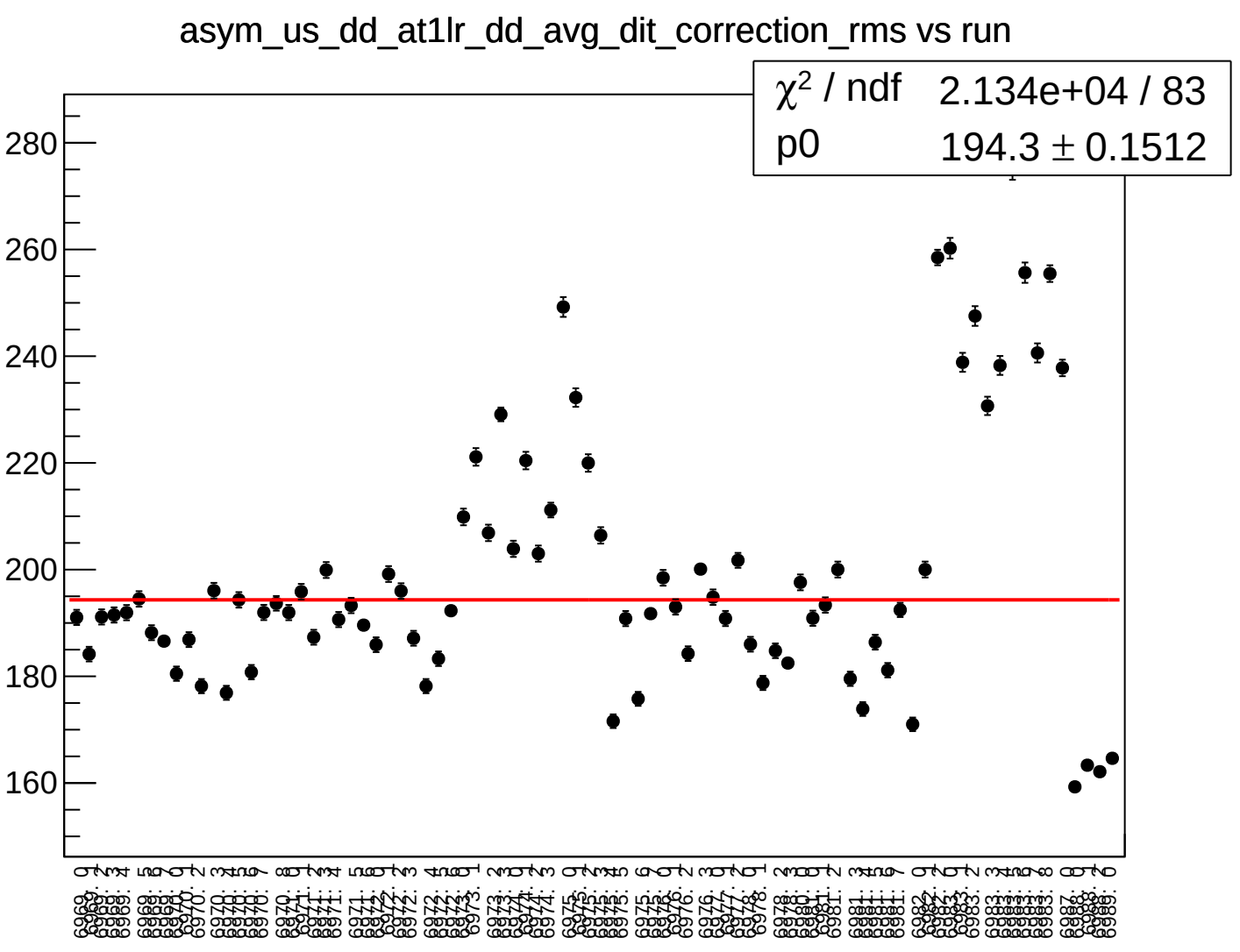

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.57e+04 / 83
p0 183.1 ± 0.1439
320
300
280
260
240
220
200
180
160
140
120

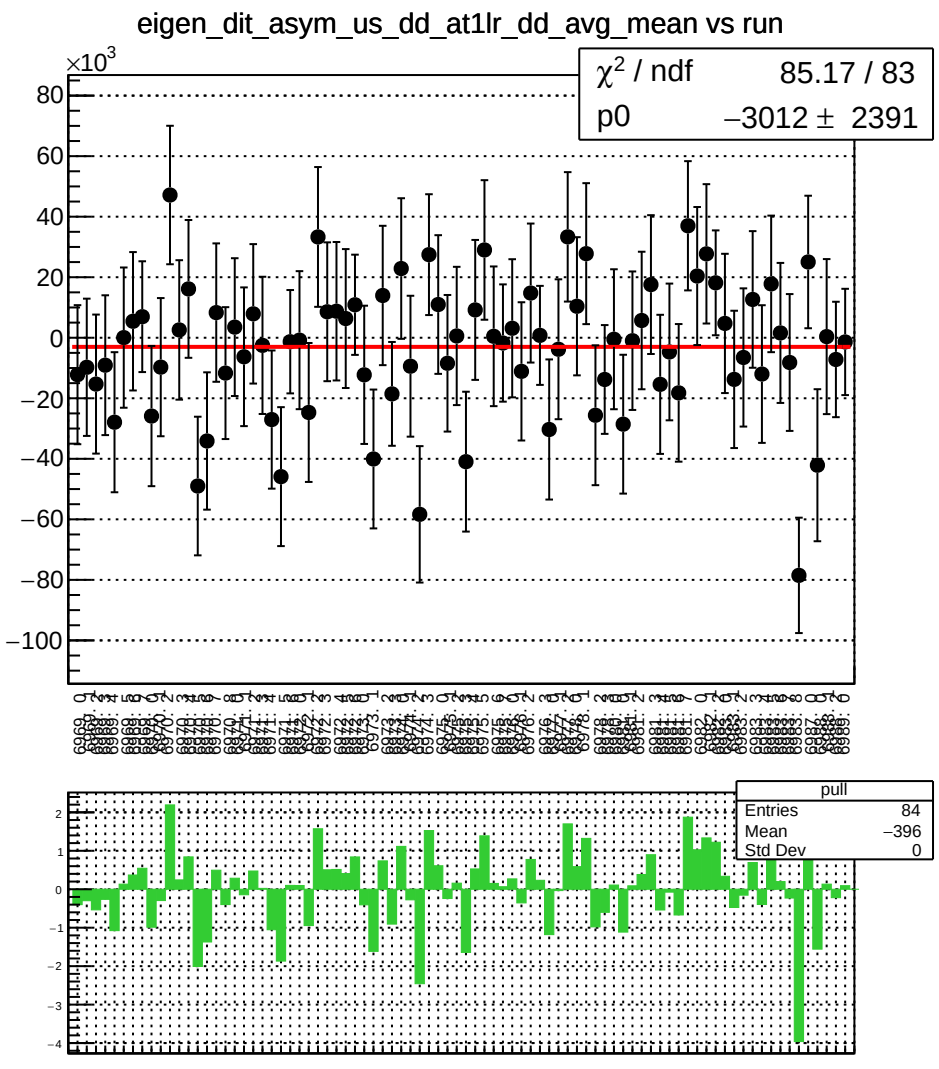

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 85.17 / 83
p0 −3012 ± 2391
pull
Entries 84
Mean −396
Std Dev 0

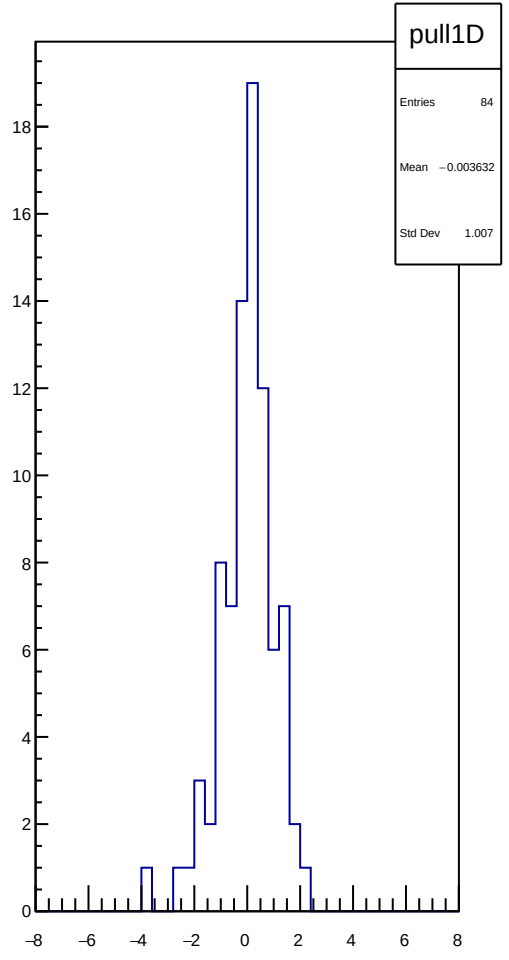

pull1D
Entries 84
Mean −0.003632
Std Dev 1.007

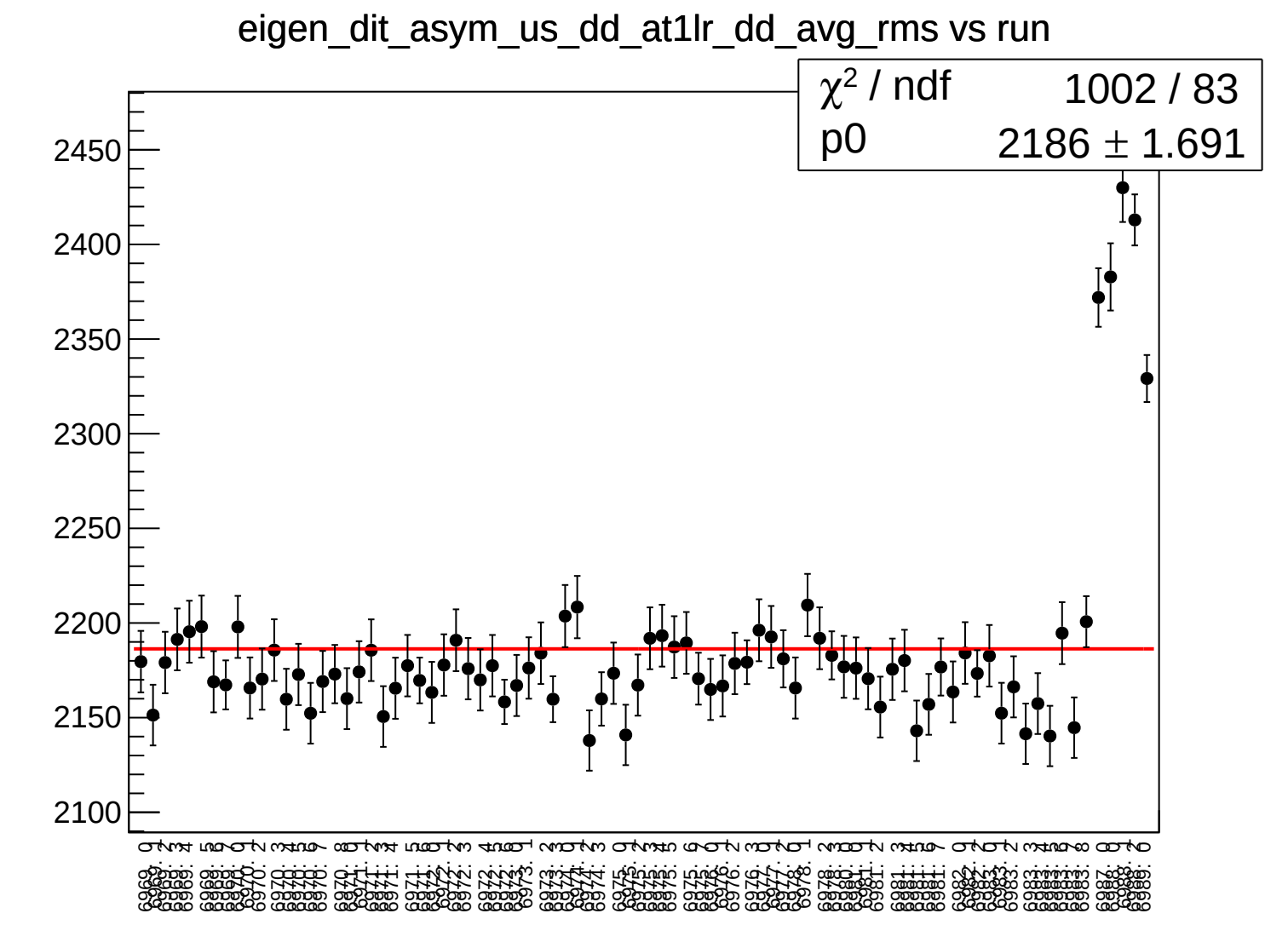

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1002 / 83
p0 2186 ± 1.691
2450
2400
2350
2300
2250
2200
2150
2100

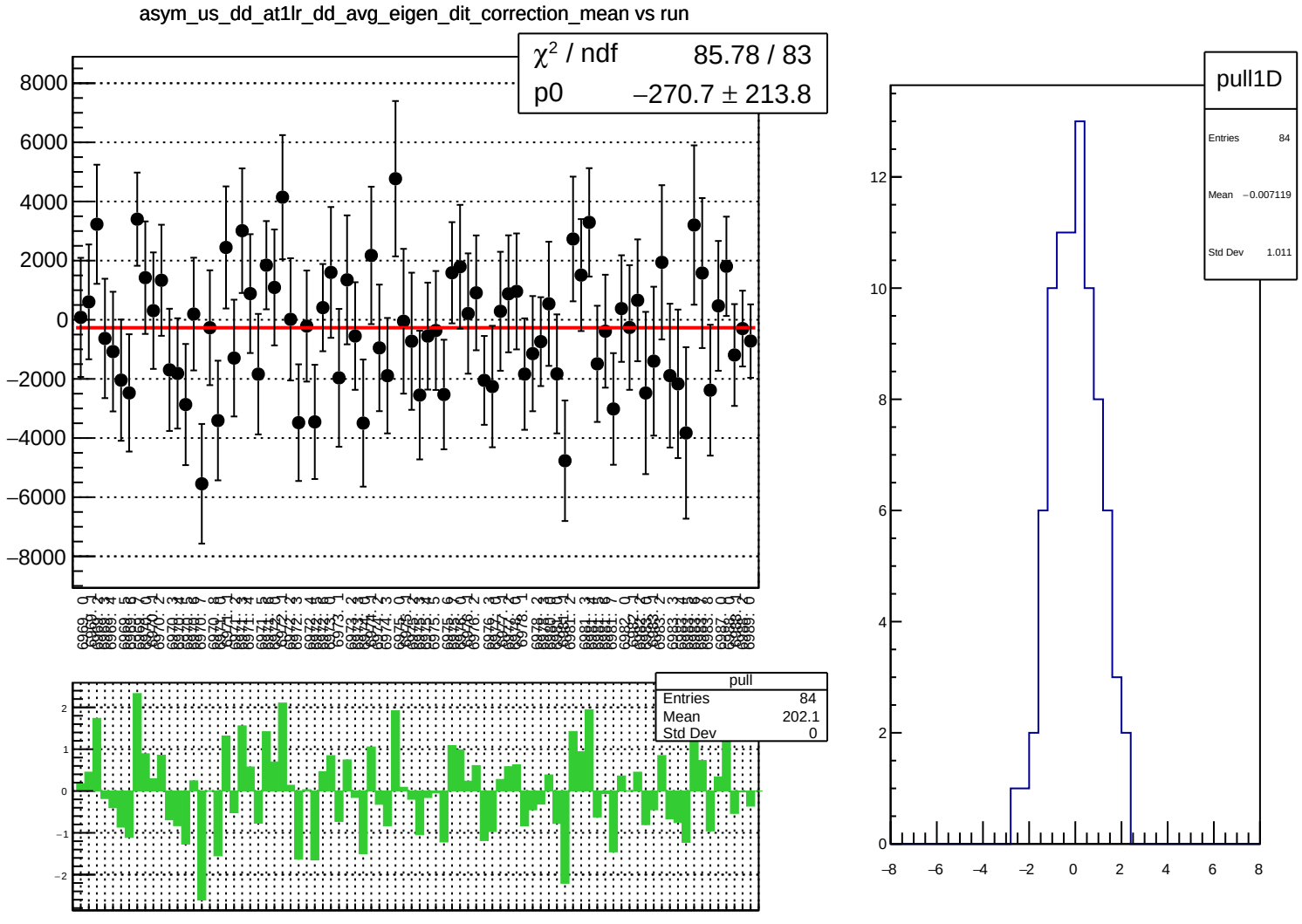

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 85.78 / 83
p0 −270.7 ± 213.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean 202.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.007119
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

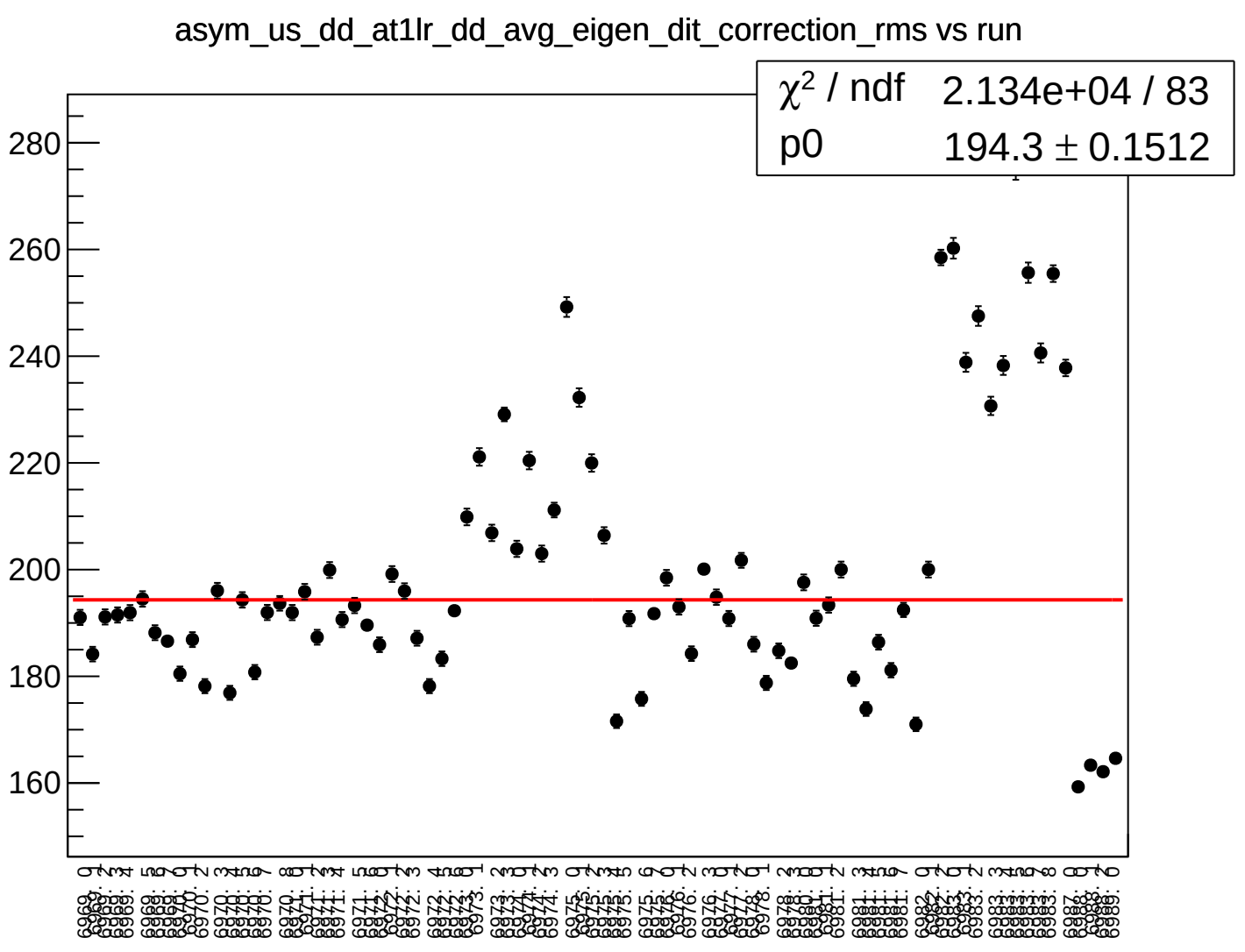

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.134e+04 / 83
p0 194.3 ± 0.1512
280
260
240
220
200
180
160

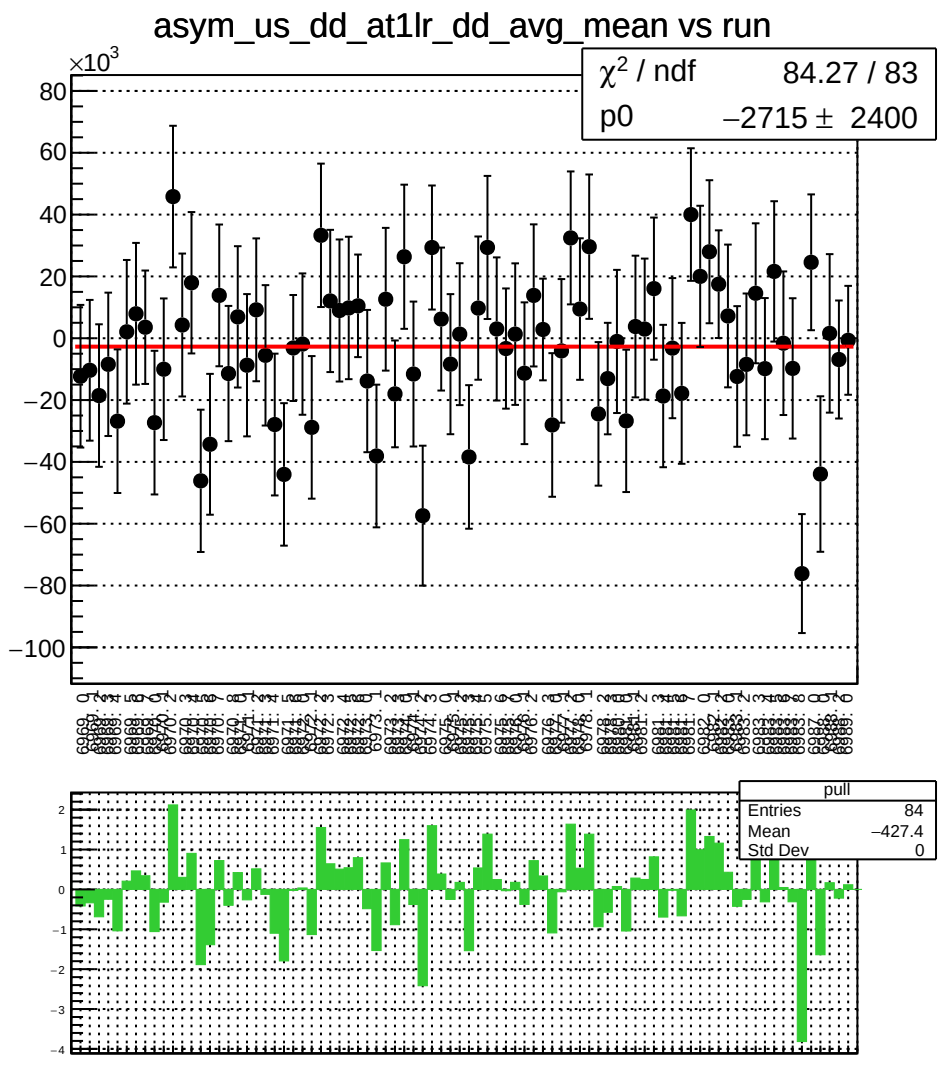

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 85.17 / 83
p0 −3012 ± 2391
pull
Entries 84
Mean −396
Std Dev 0

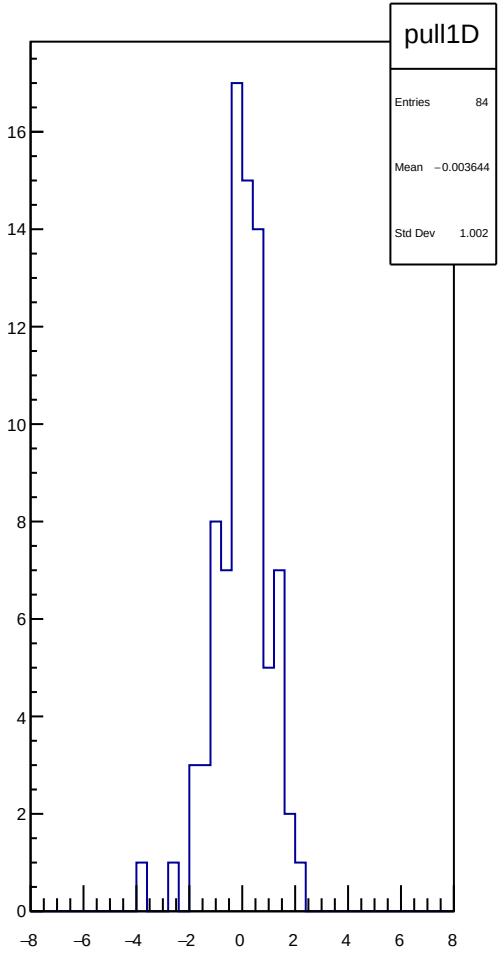

pull1D
Entries 84
Mean −0.003632
Std Dev 1.007

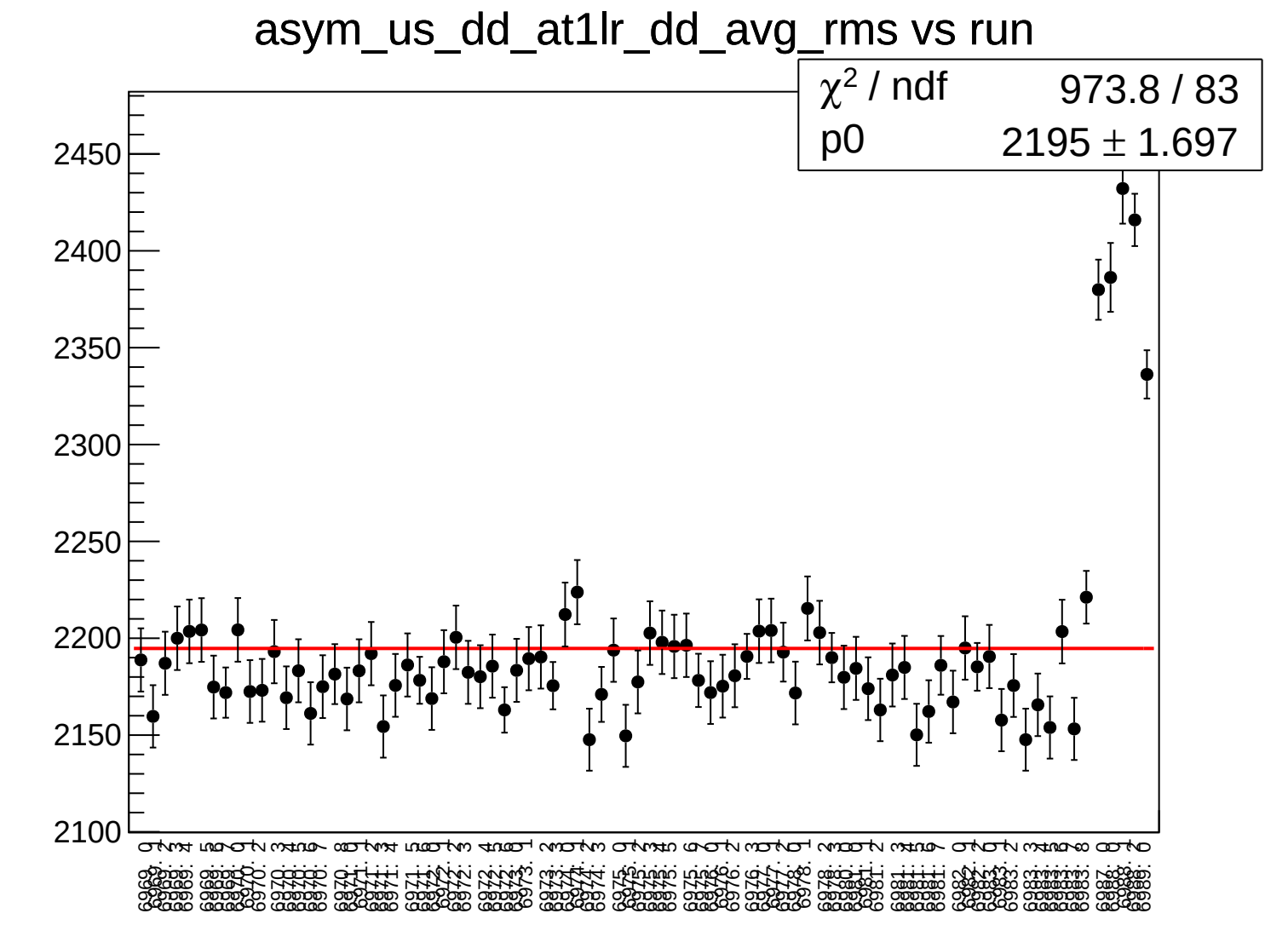

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1002 / 83
p0 2186 ± 1.691
2450
2400
2350
2300
2250
2200
2150
2100

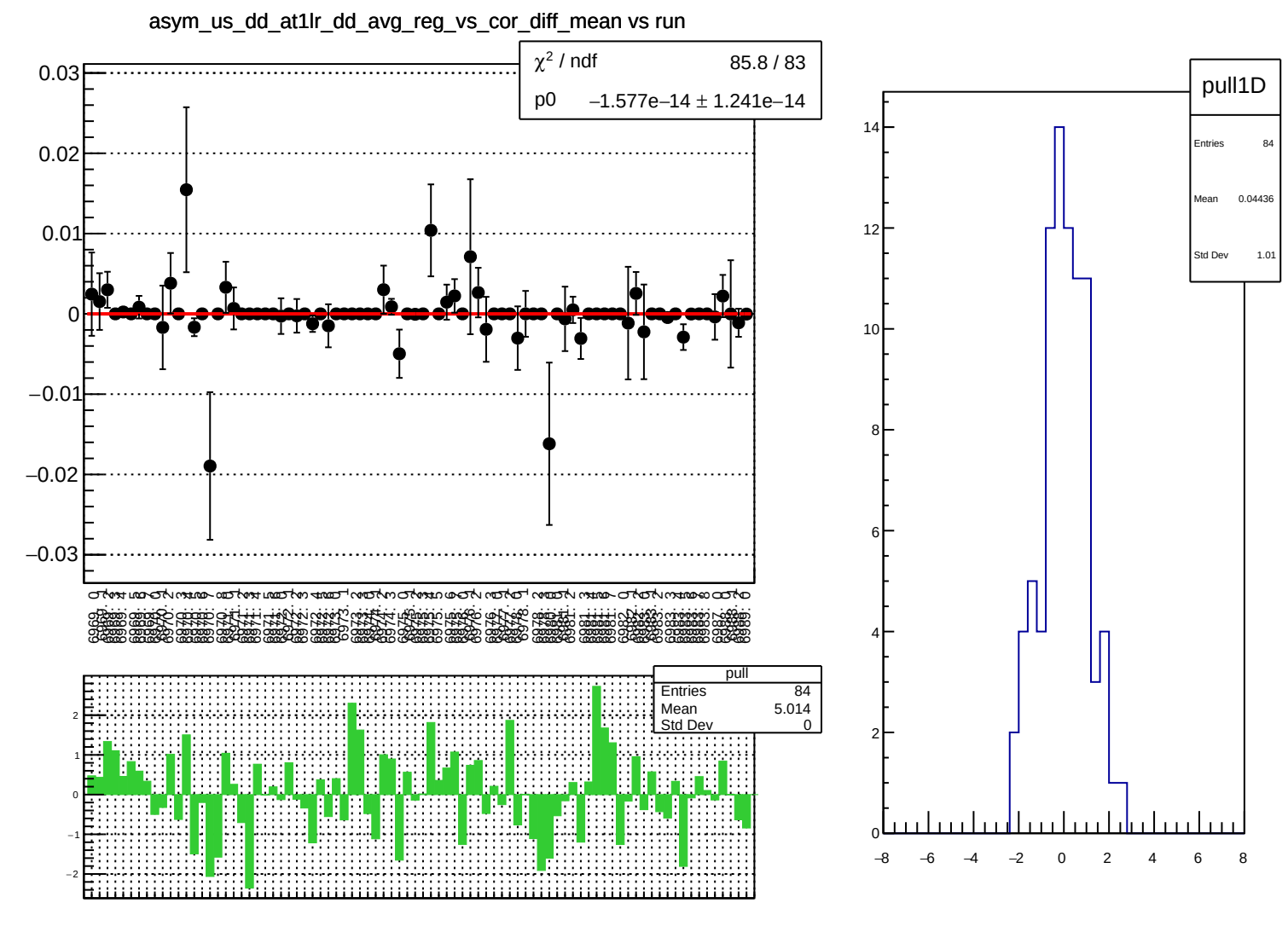

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.78 / 83
p0 −270.7 ± 213.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean 202.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.007119
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

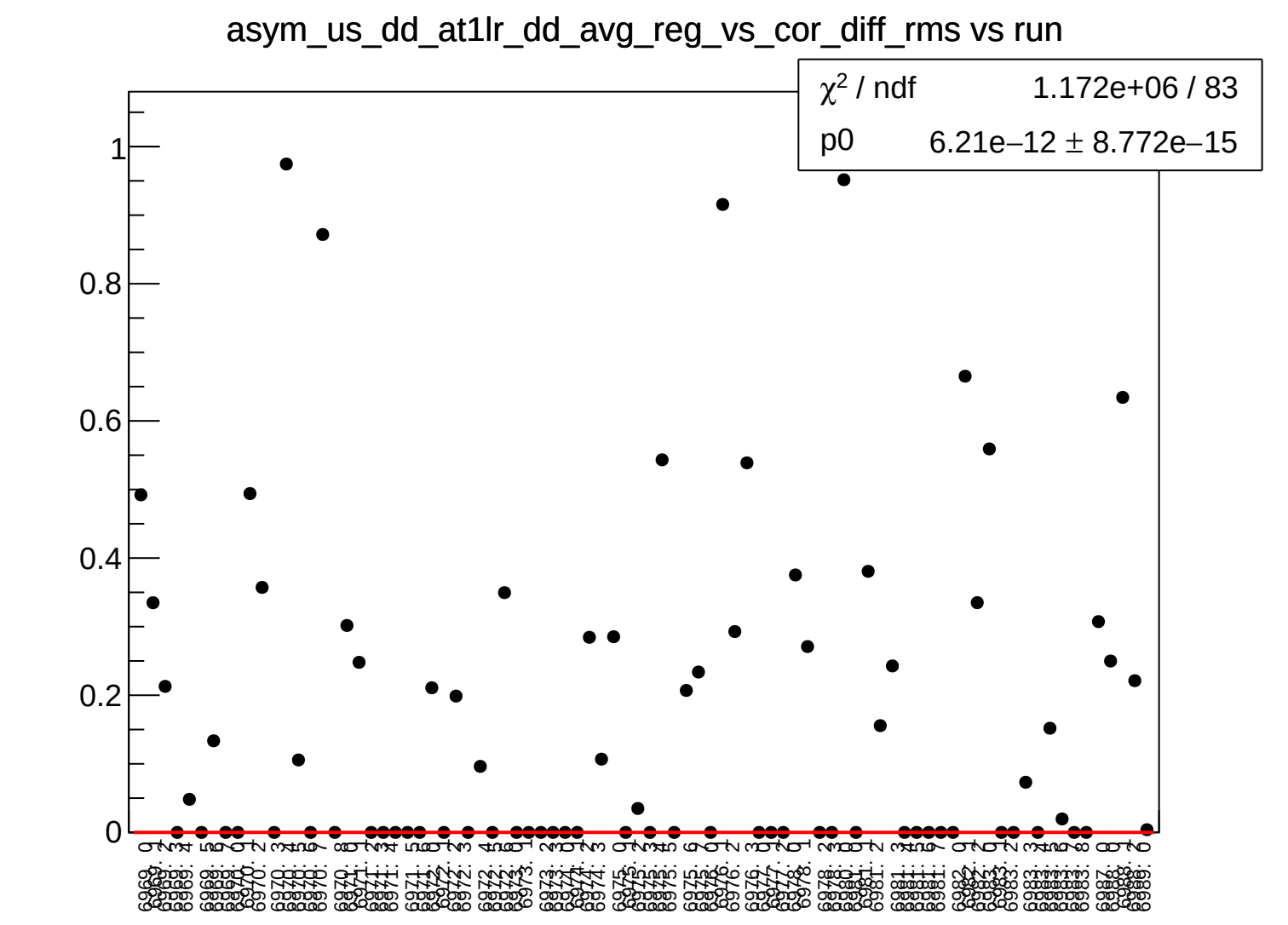

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.134e+04 / 83
p0 194.3 ± 0.1512
280
260
240
220
200
180
160

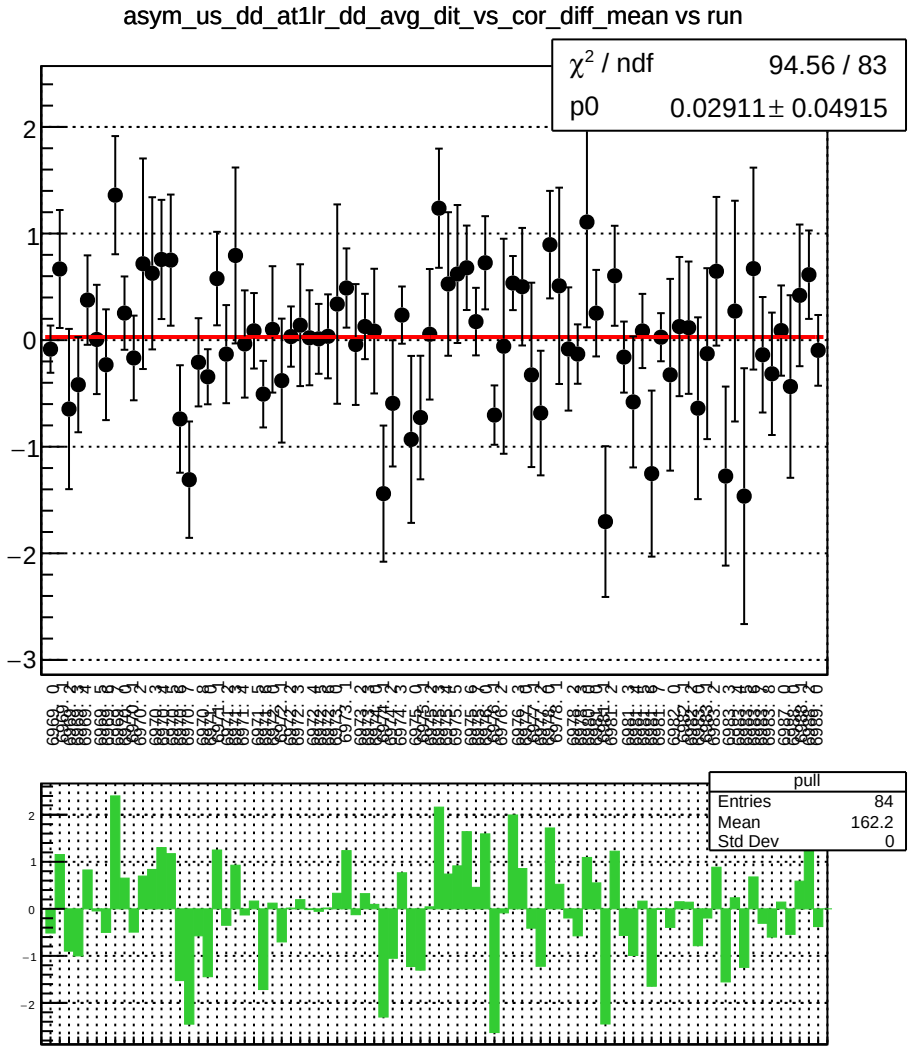

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 84.27 / 83
p0 −2715 ± 2400
pull
Entries 84
Mean −427.4
Std Dev 0

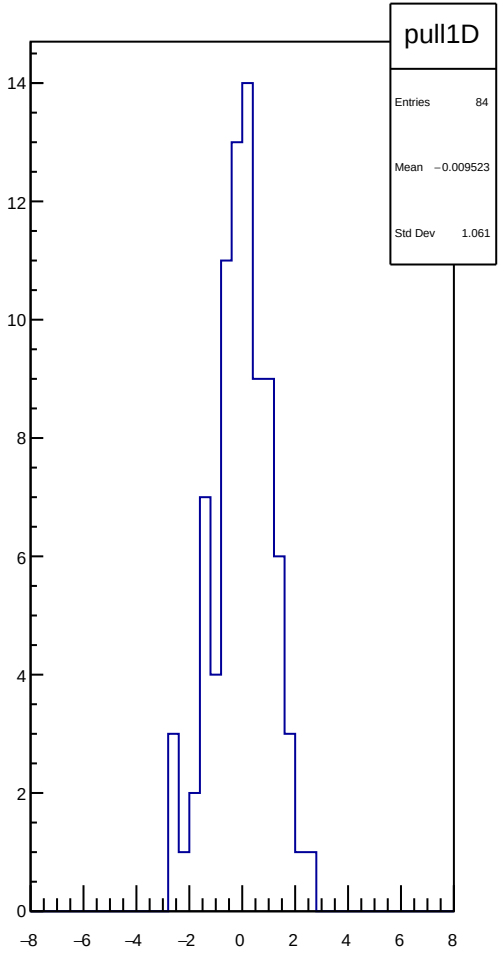

pull1D
Entries 84
Mean −0.003644
Std Dev 1.002

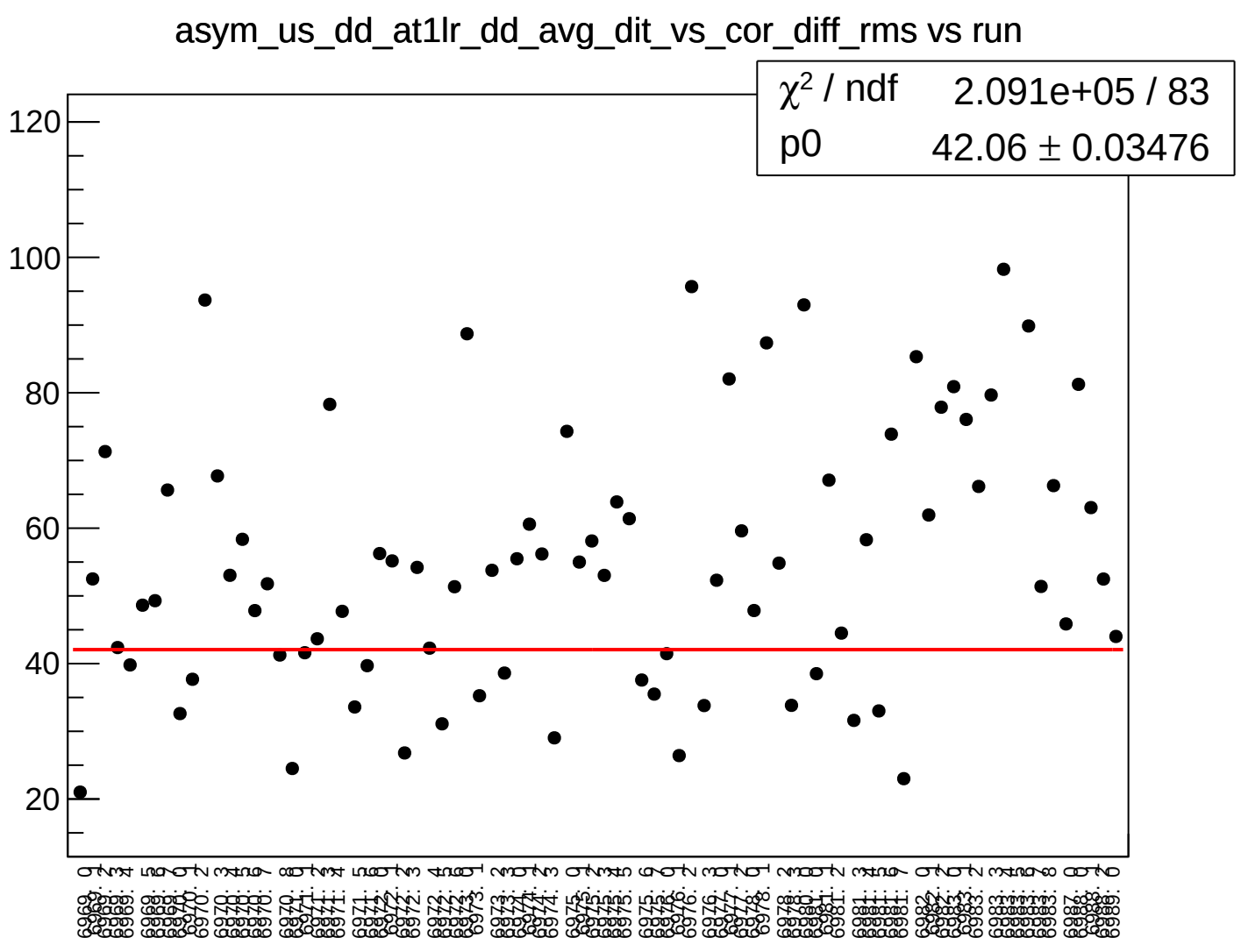

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 973.8 / 83
p0 2195 ± 1.697
2450
2400
2350
2300
2250
2200
2150
2100

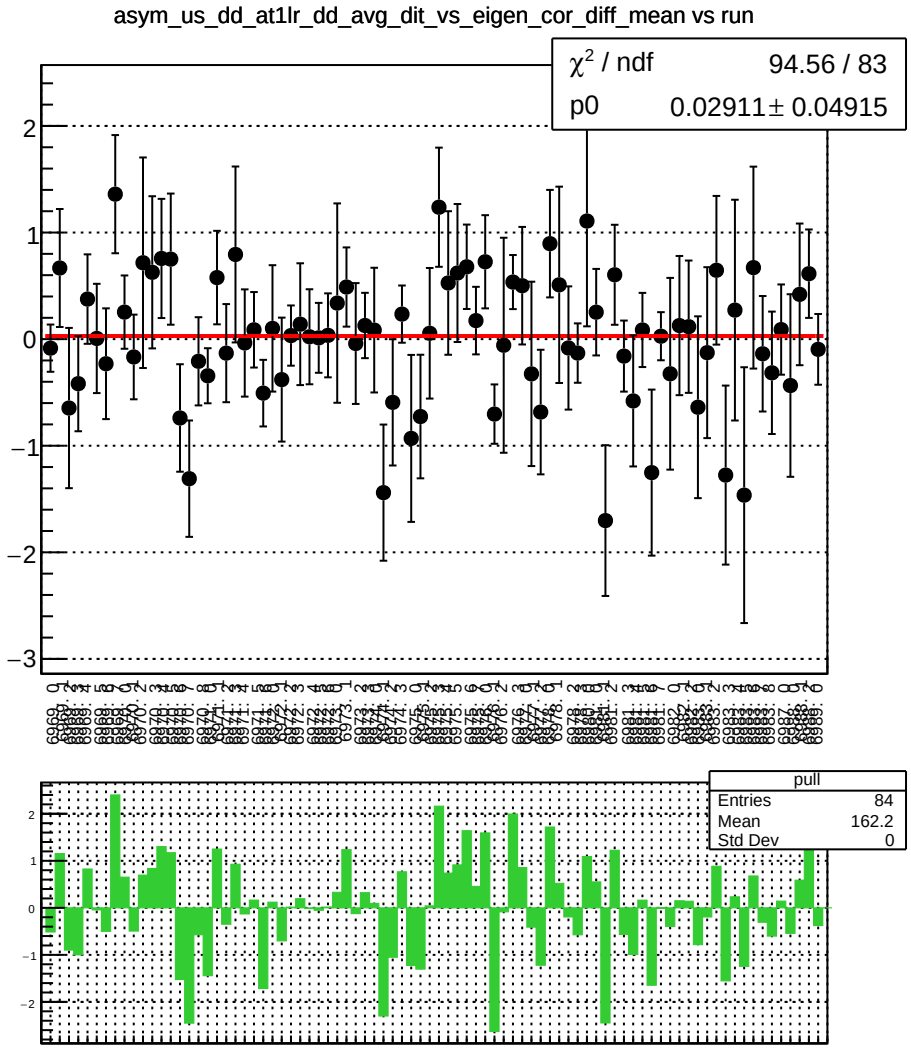

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.8 / 83
p0 −1.577e−14 ± 1.241e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 5.014
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.04436
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

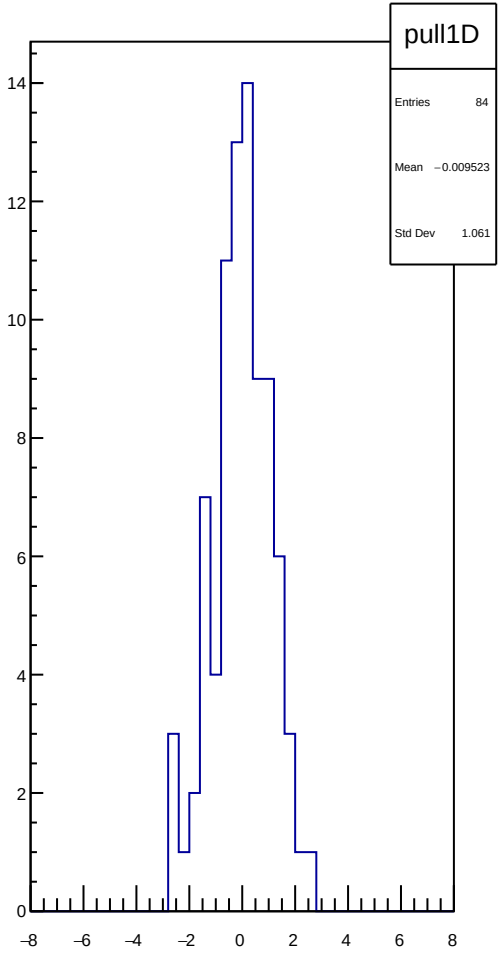

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.172e+06 / 83
p0 6.21e−12 ± 8.772e−15
1
0.8
0.6
0.4
0.2
0

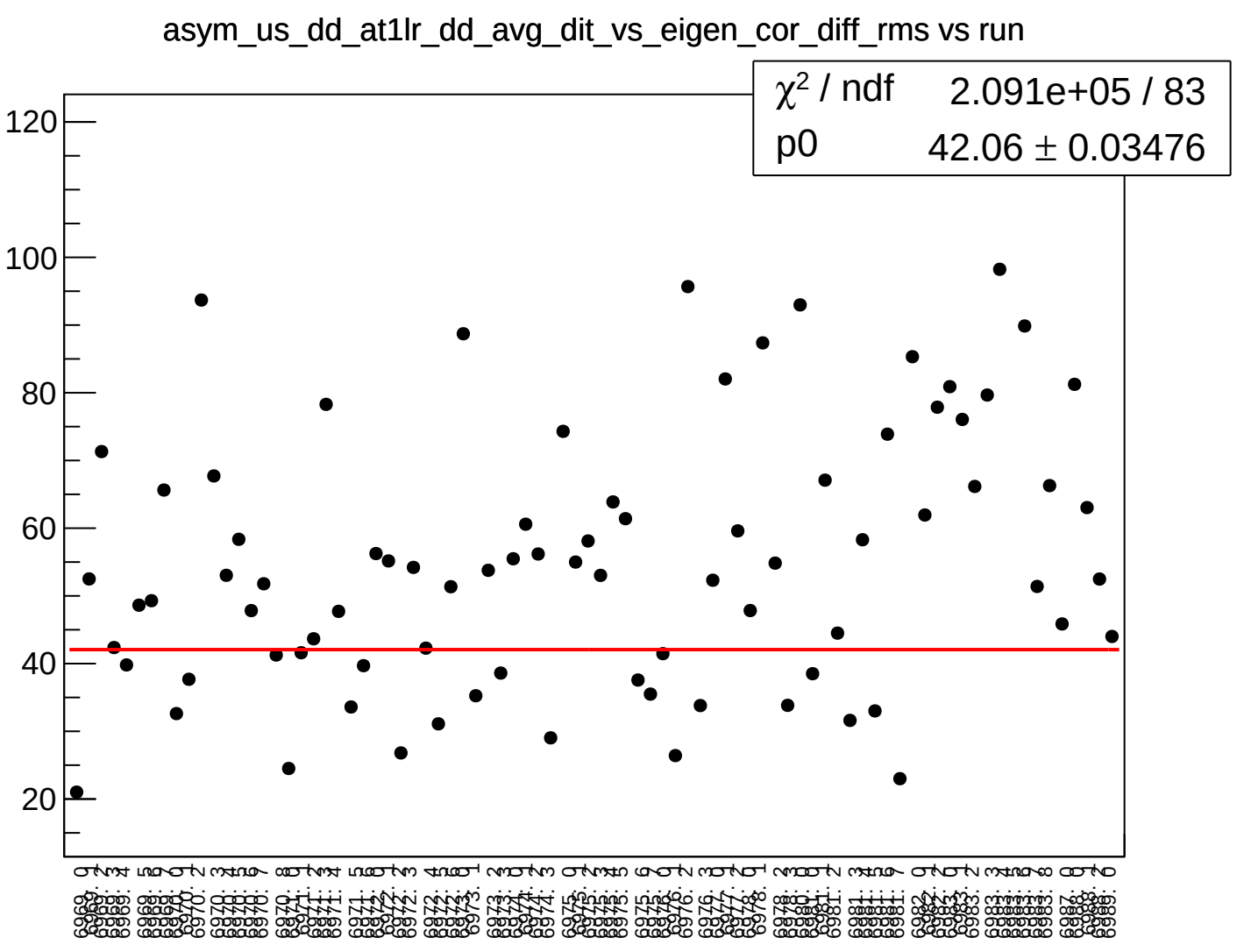

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.56 / 83
p0 0.02911 ± 0.04915
pull
Entries 84
Mean 162.2
Std Dev 0

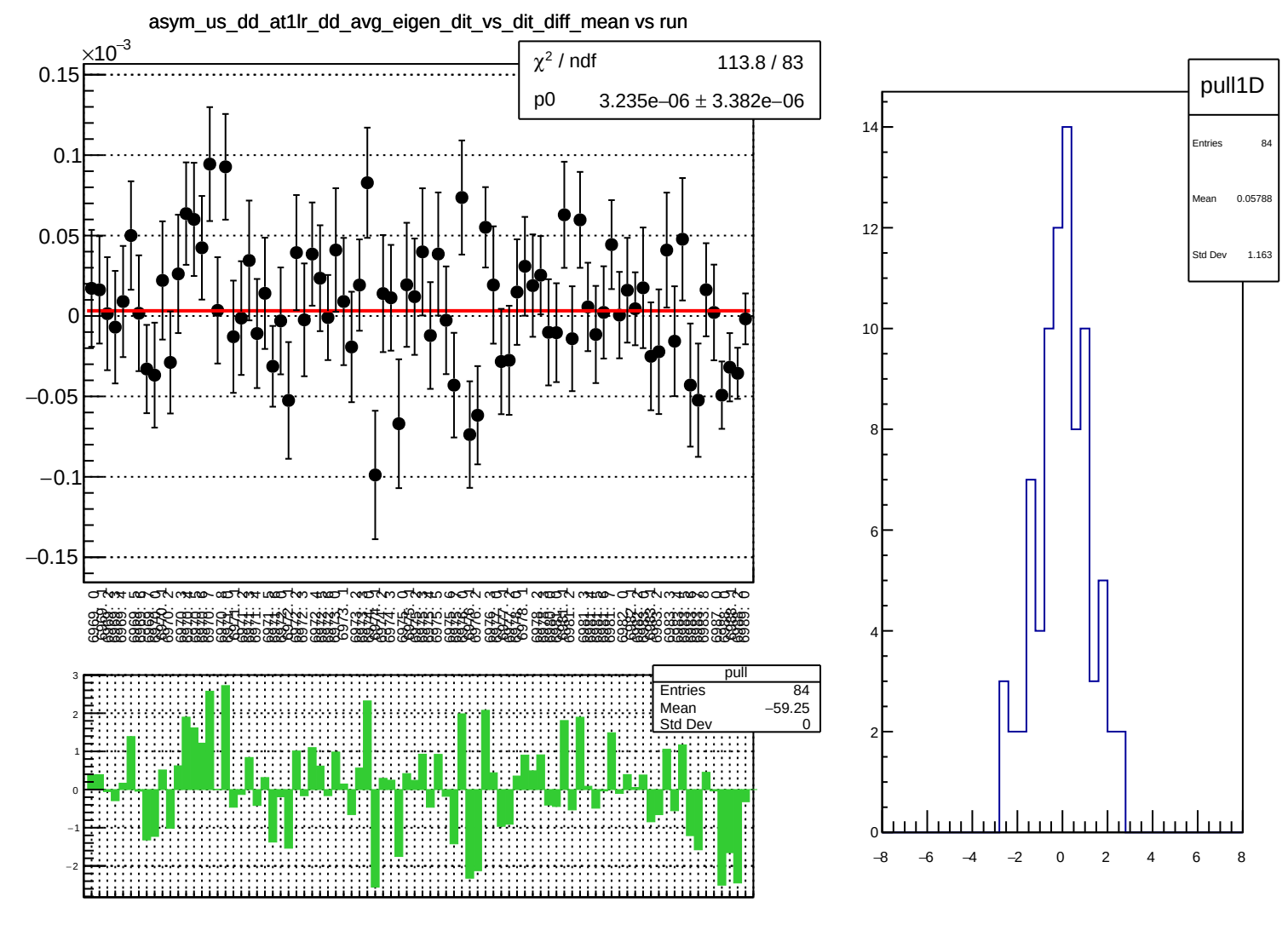

pull1D
Entries 84
Mean −0.009523
Std Dev 1.061

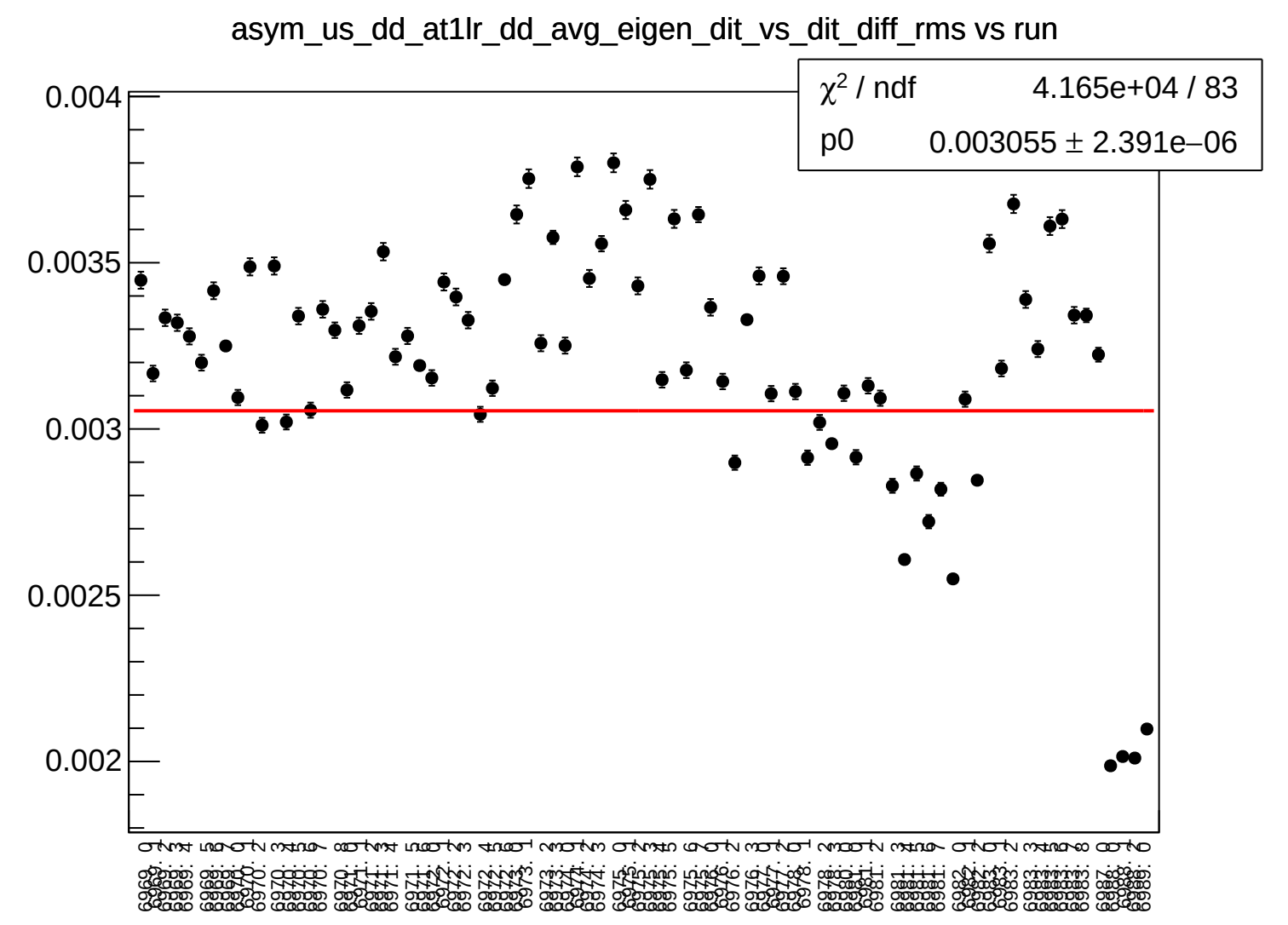

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.091e+05 / 83
p0 42.06 ± 0.03476
120
100
80
60
40
20

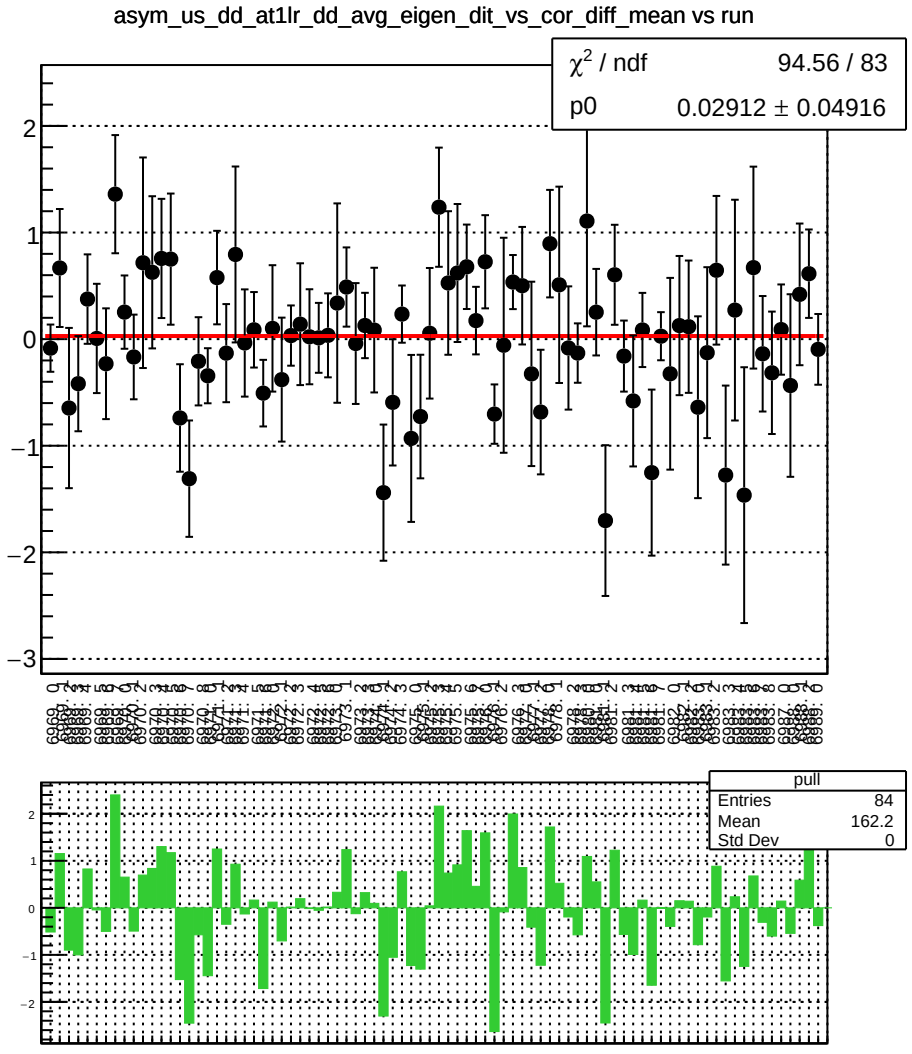

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.56 / 83
p0 0.02911 ± 0.04915
pull
Entries 84
Mean 162.2
Std Dev 0

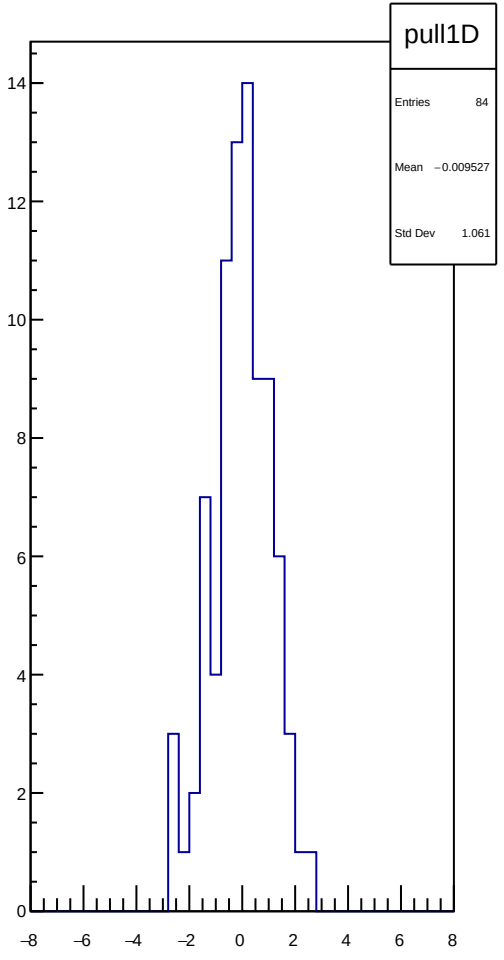

pull1D
Entries 84
Mean −0.009523
Std Dev 1.061

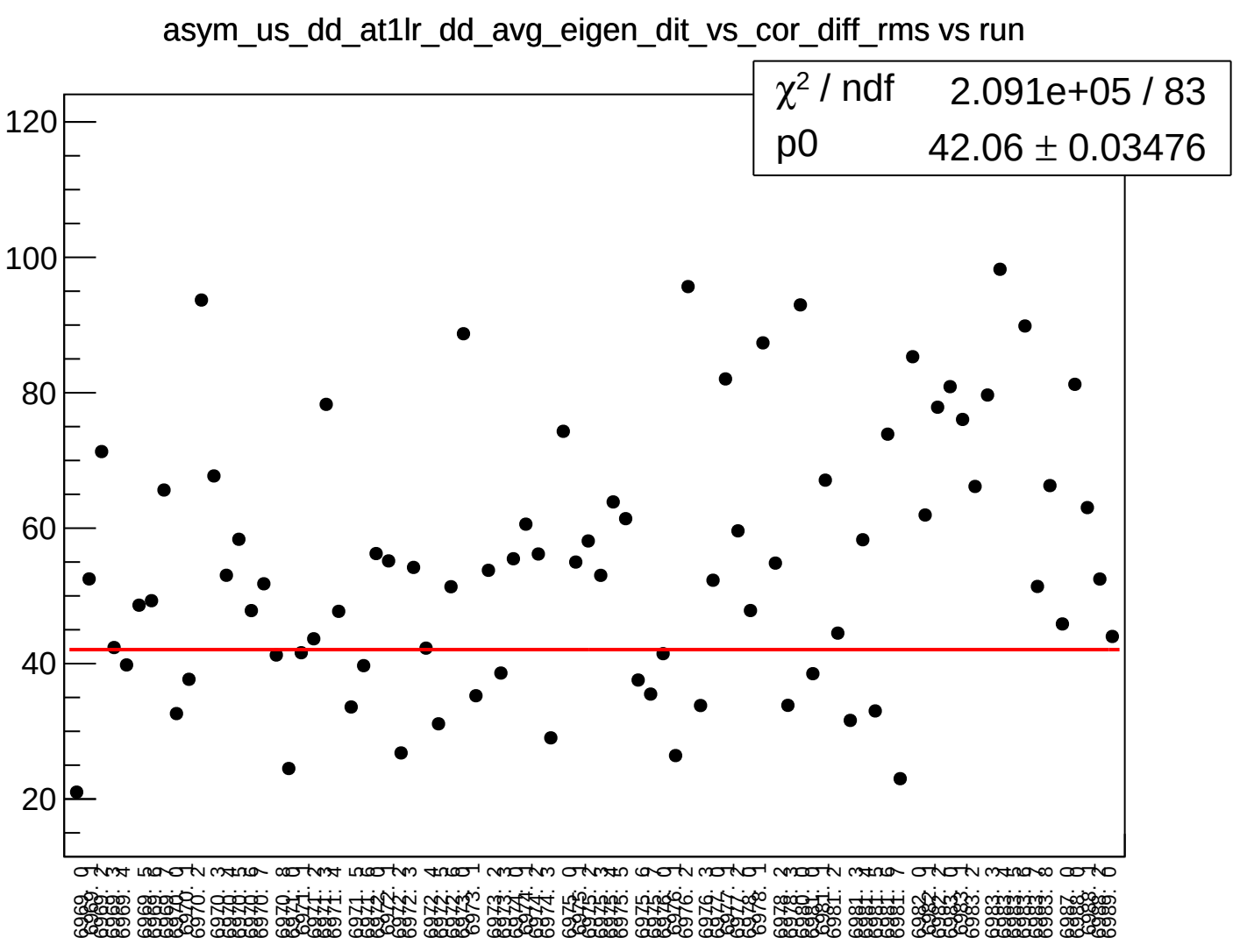

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.091e+05 / 83
p0 42.06 ± 0.03476
120
100
80
60
40
20

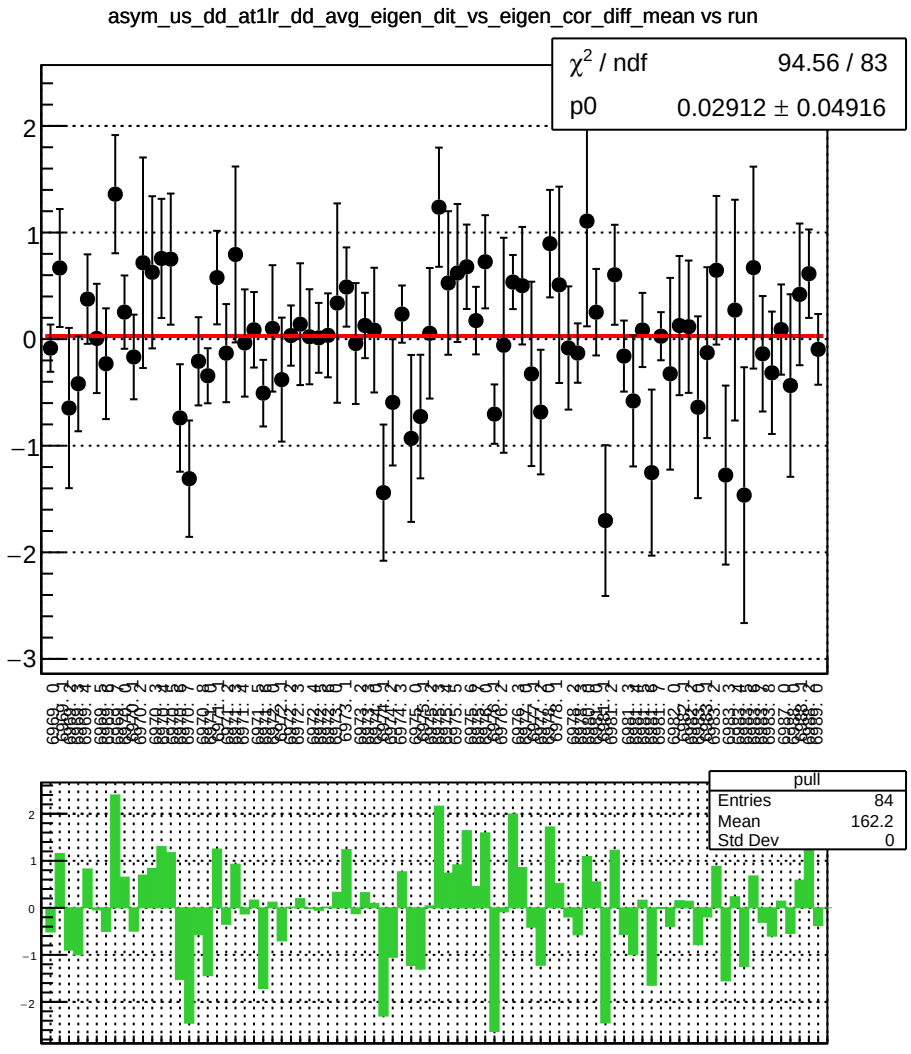

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.8 / 83
p0 3.235e−06 ± 3.382e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean −59.25
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.05788
Std Dev 1.163
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

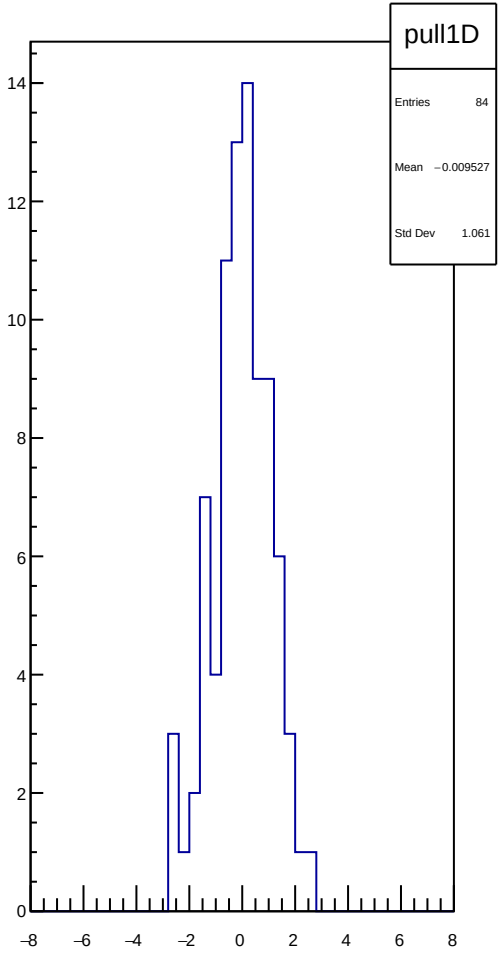

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.165e+04 / 83
p0 0.003055 ± 2.391e−06
0.004
0.0035
0.003
0.0025
0.002

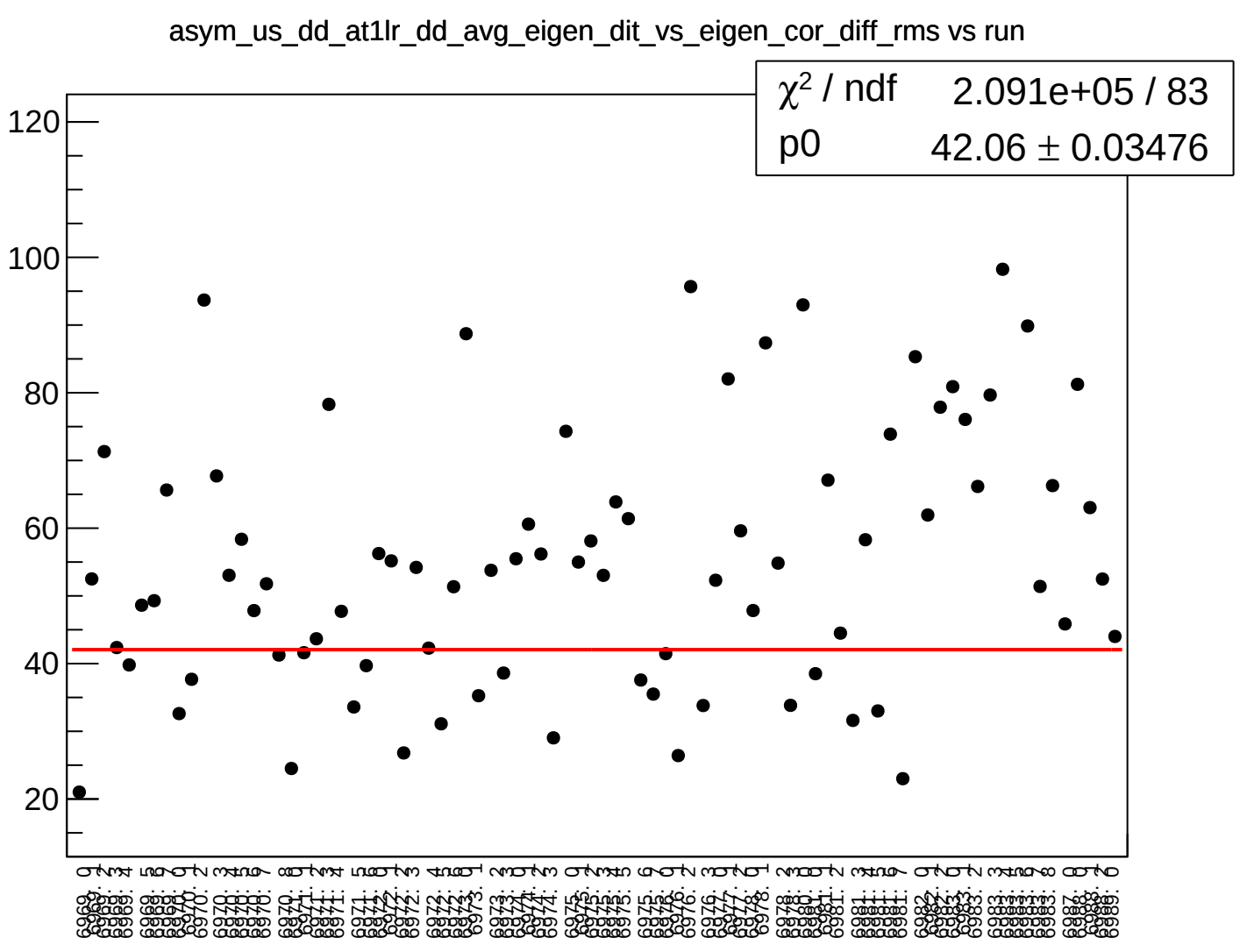

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.56 / 83
p0 0.02912 ± 0.04916
pull
Entries 84
Mean 162.2
Std Dev 0

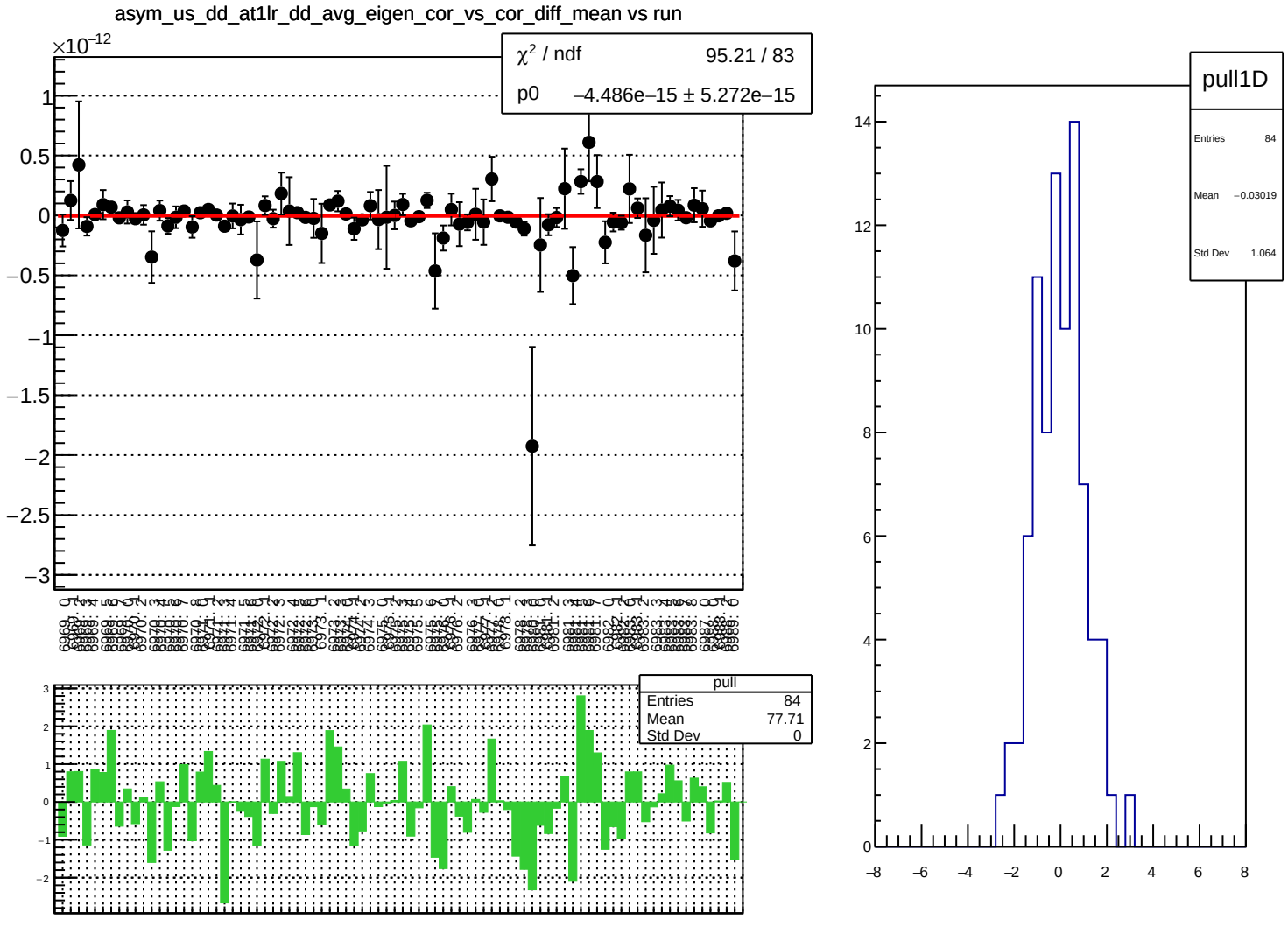

pull1D
Entries 84
Mean −0.009527
Std Dev 1.061

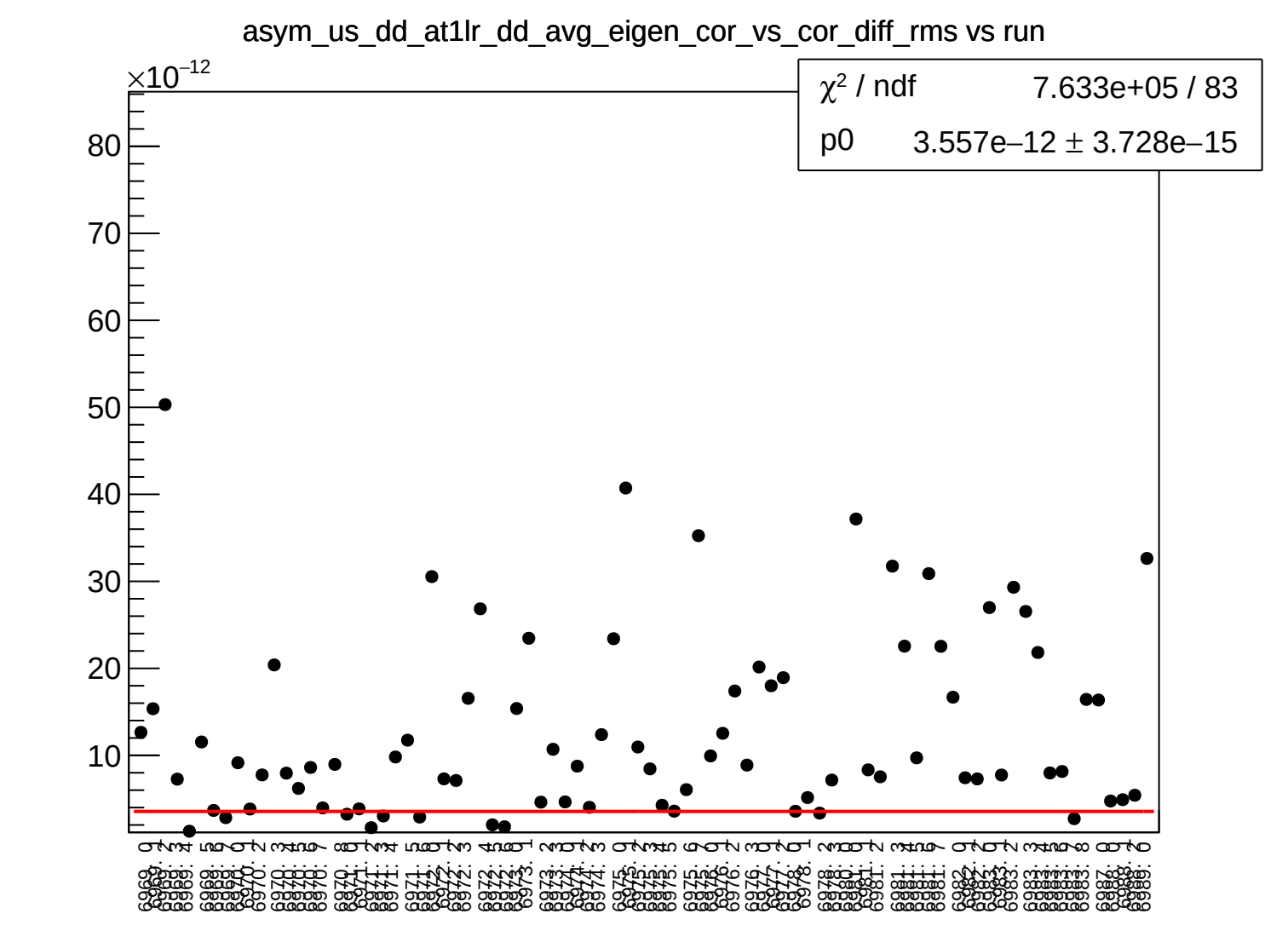

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.091e+05 / 83
p0 42.06 ± 0.03476
120
100
80
60
40
20

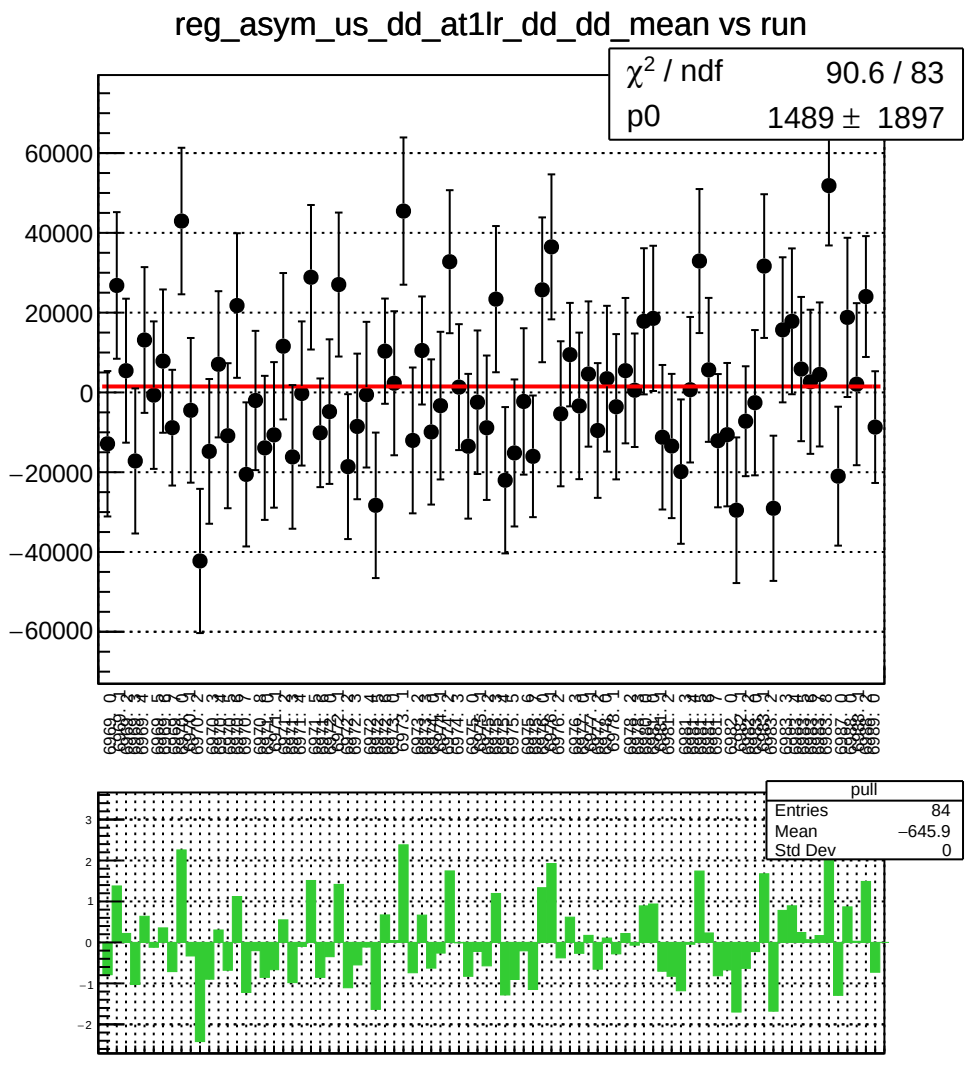

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.56 / 83
p0 0.02912 ± 0.04916
pull
Entries 84
Mean 162.2
Std Dev 0

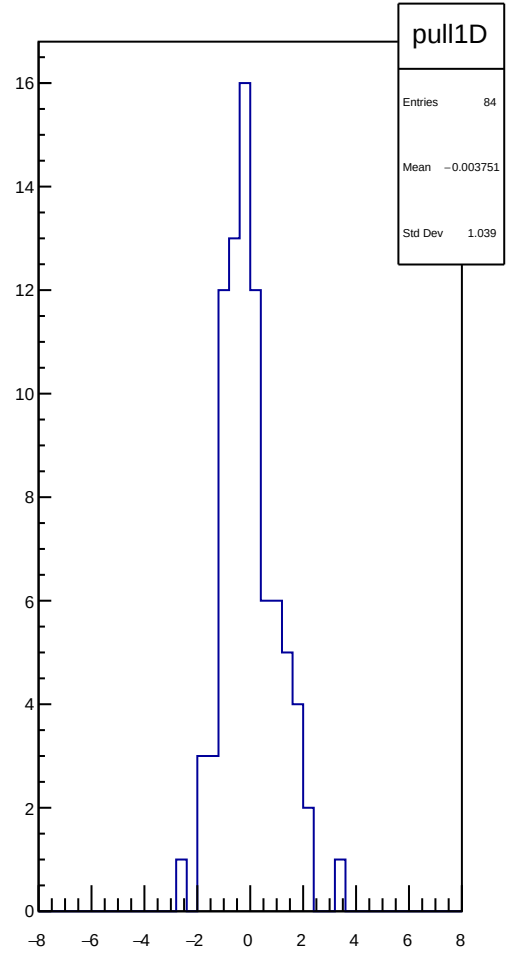

pull1D
Entries 84
Mean −0.009527
Std Dev 1.061

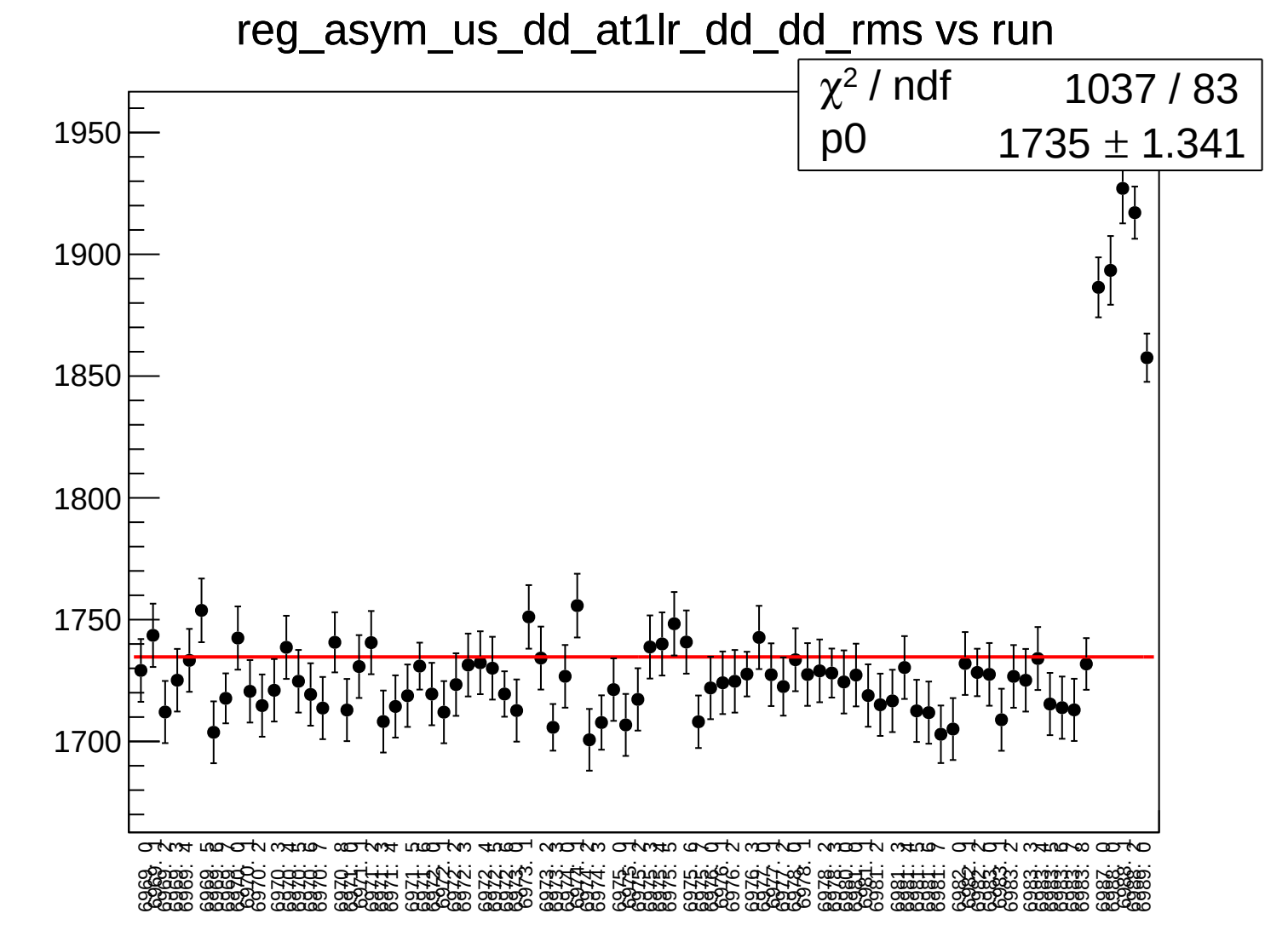

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.091e+05 / 83
p0 42.06 ± 0.03476
120
100
80
60
40
20

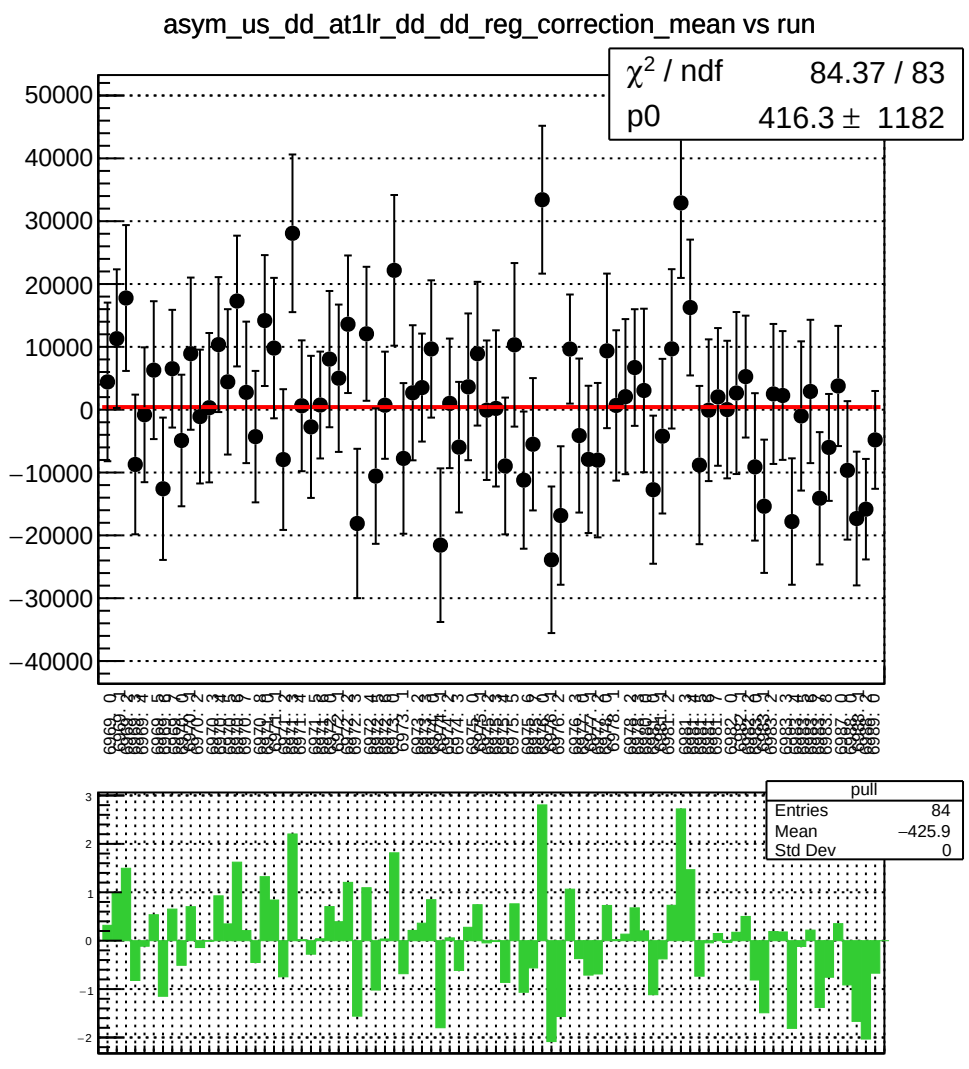

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.21 / 83
p0 −4.486e−15 ± 5.272e−15
pull
Entries 84
Mean 77.71
Std Dev 0
pull1D
Entries 84
Mean −0.03019
Std Dev 1.064

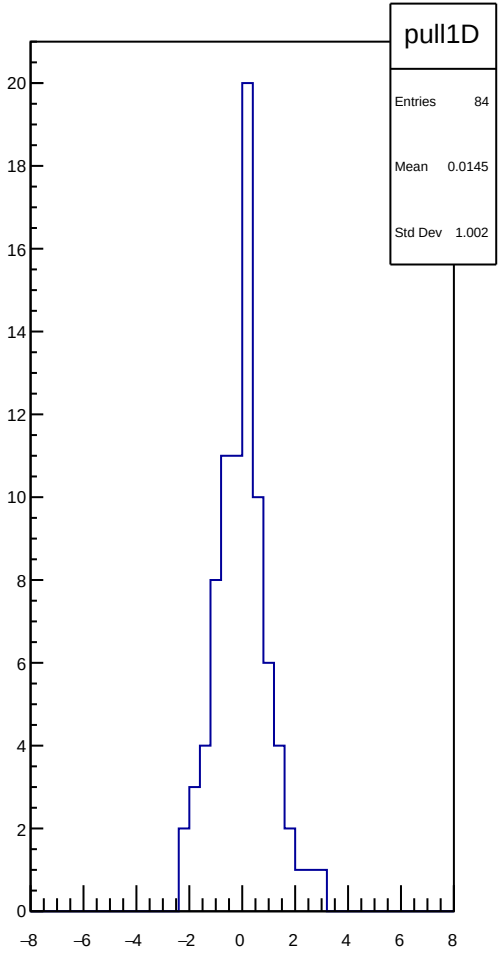

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.633e+05 / 83
p0 3.557e−12 ± 3.728e−15
80
70
60
50
40
30
20
10

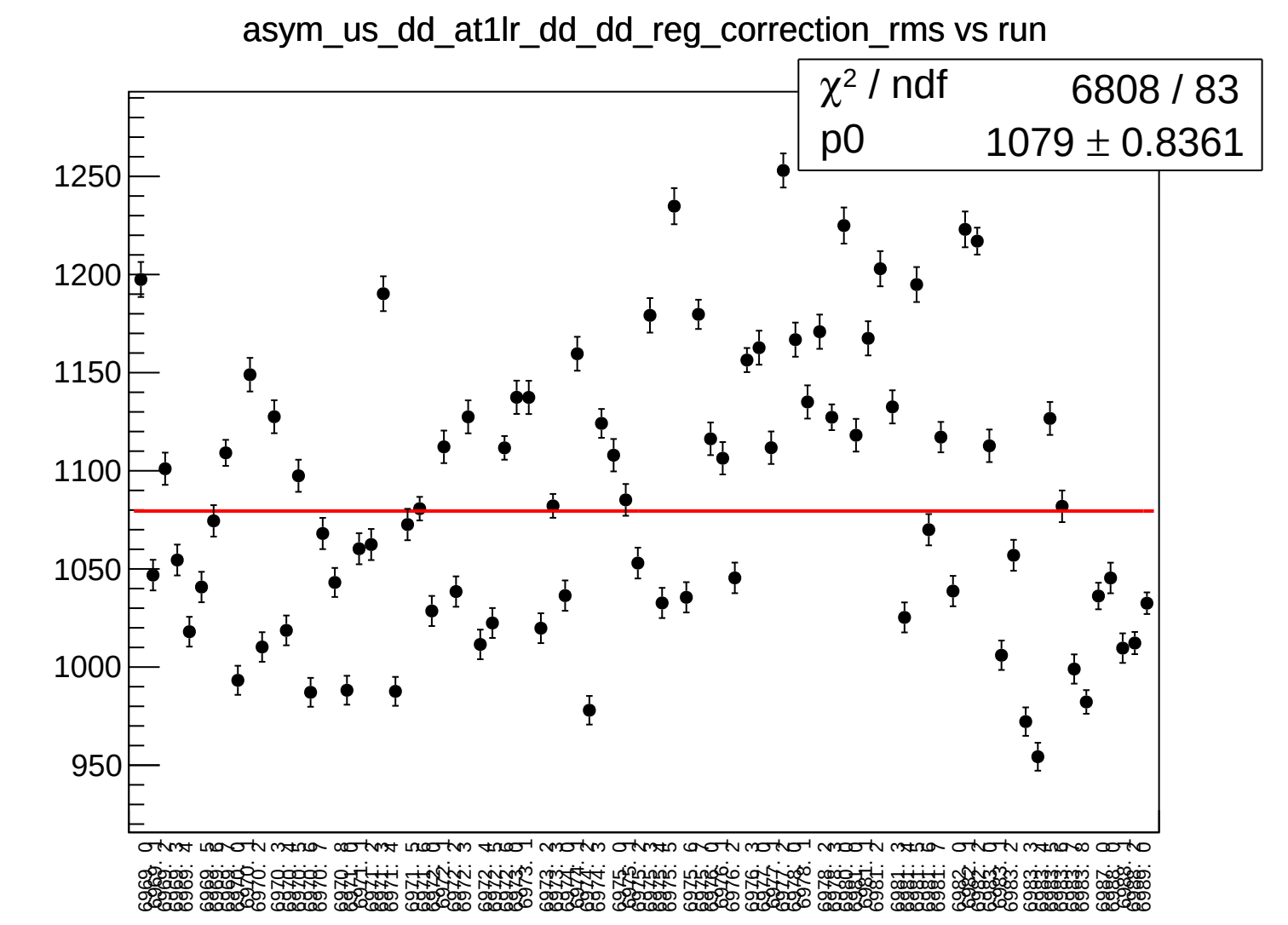

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 90.6 / 83
p0 1489 ± 1897
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −645.9
Std Dev 0
3
2
1
0
−1
−2

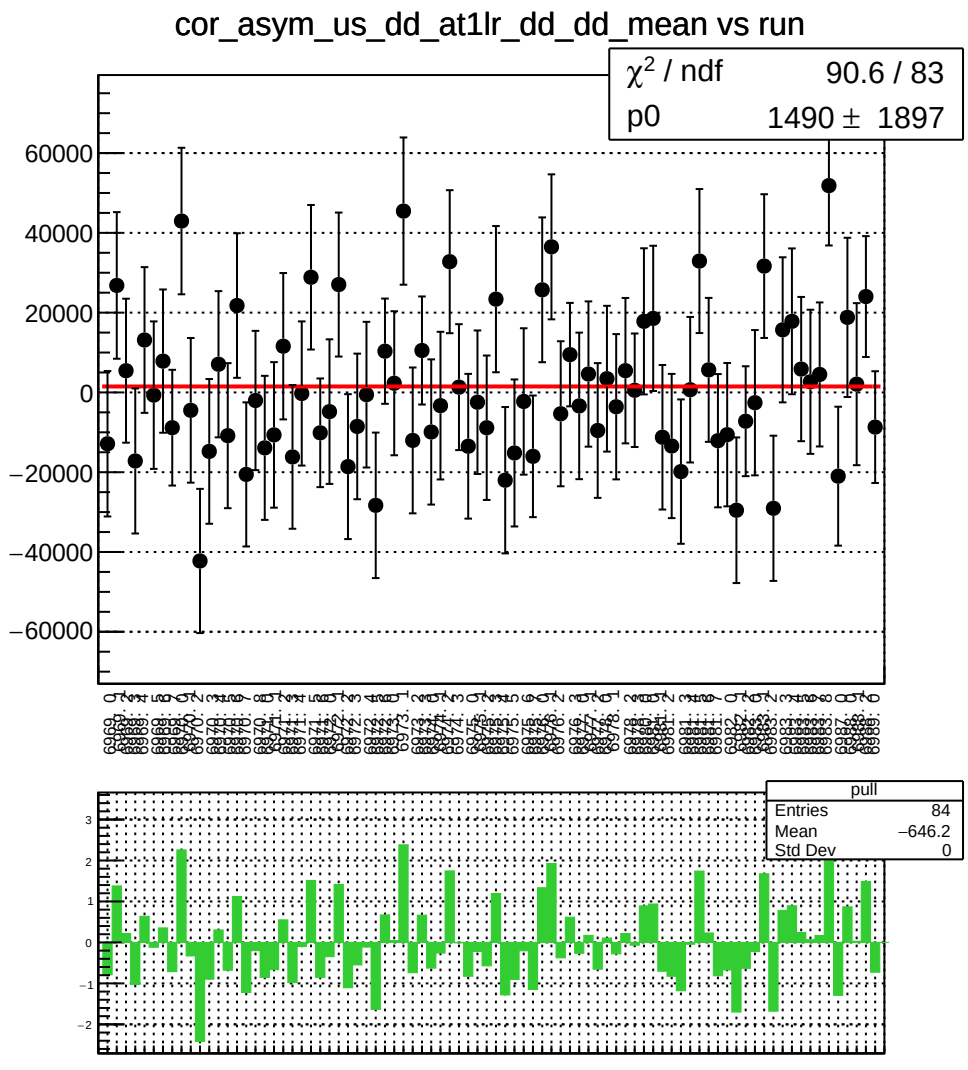

pull1D
Entries 84
Mean −0.003751
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

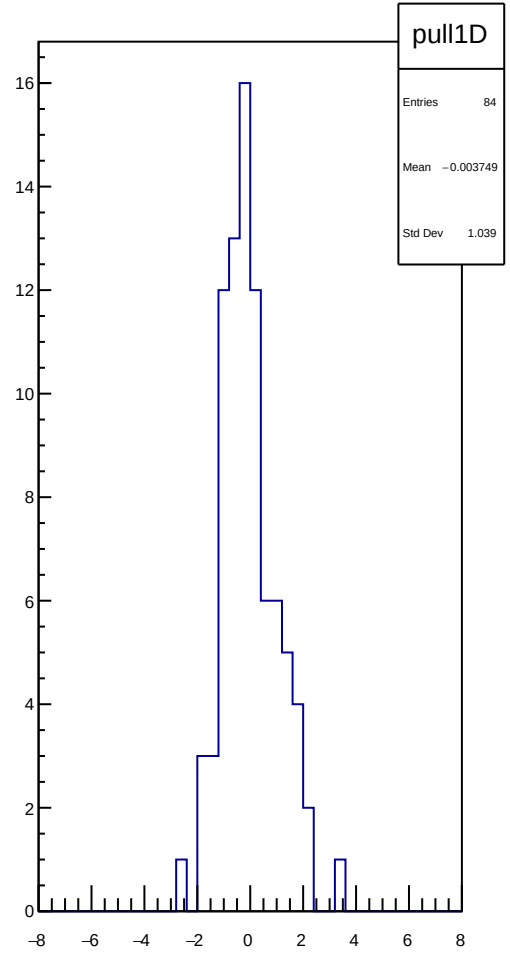

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 1037 / 83
p0 1735 ± 1.341
1950
1900
1850
1800
1750
1700

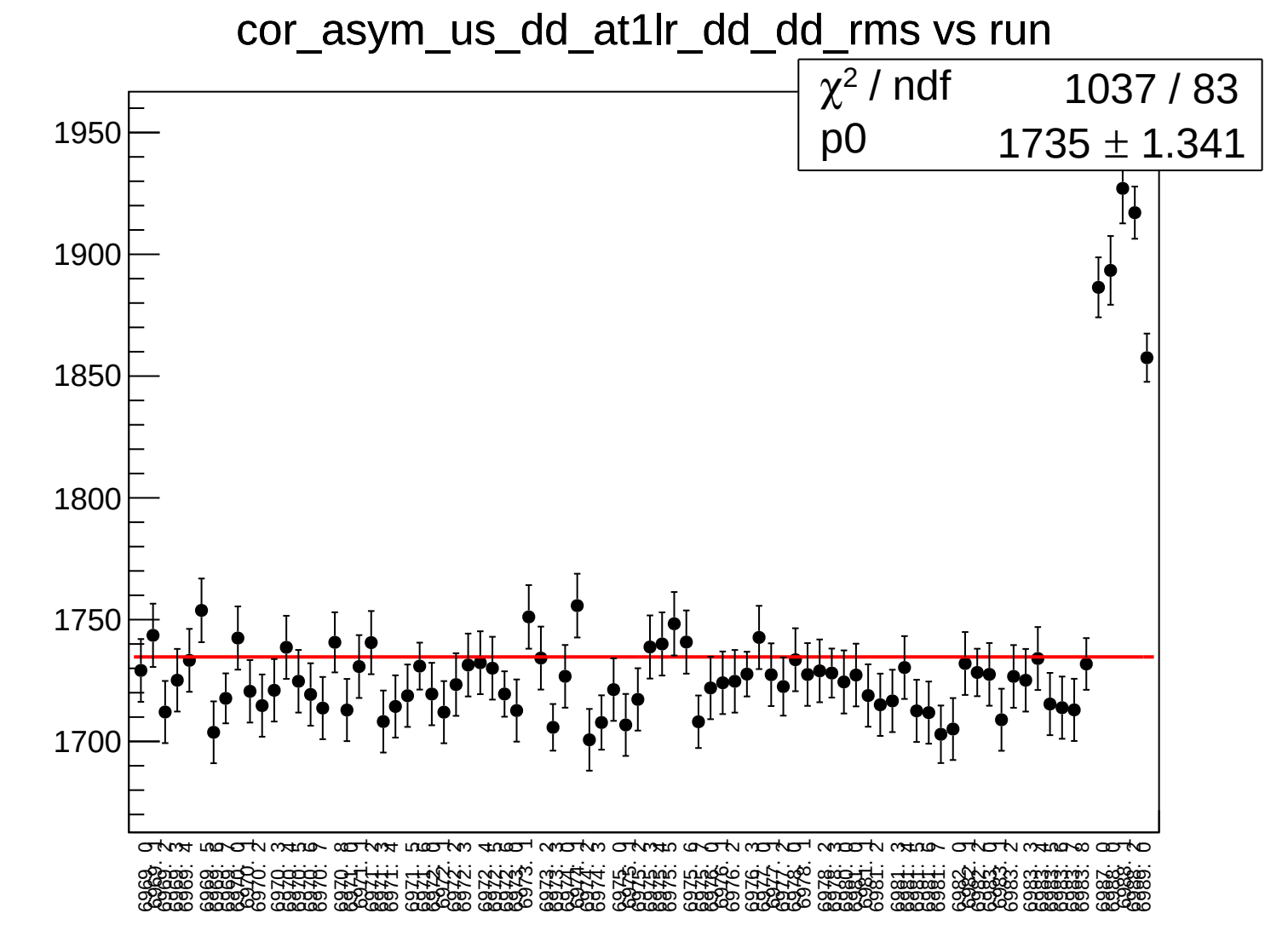

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 84.37 / 83
p0 416.3 ± 1182
pull
Entries 84
Mean −425.9
Std Dev 0

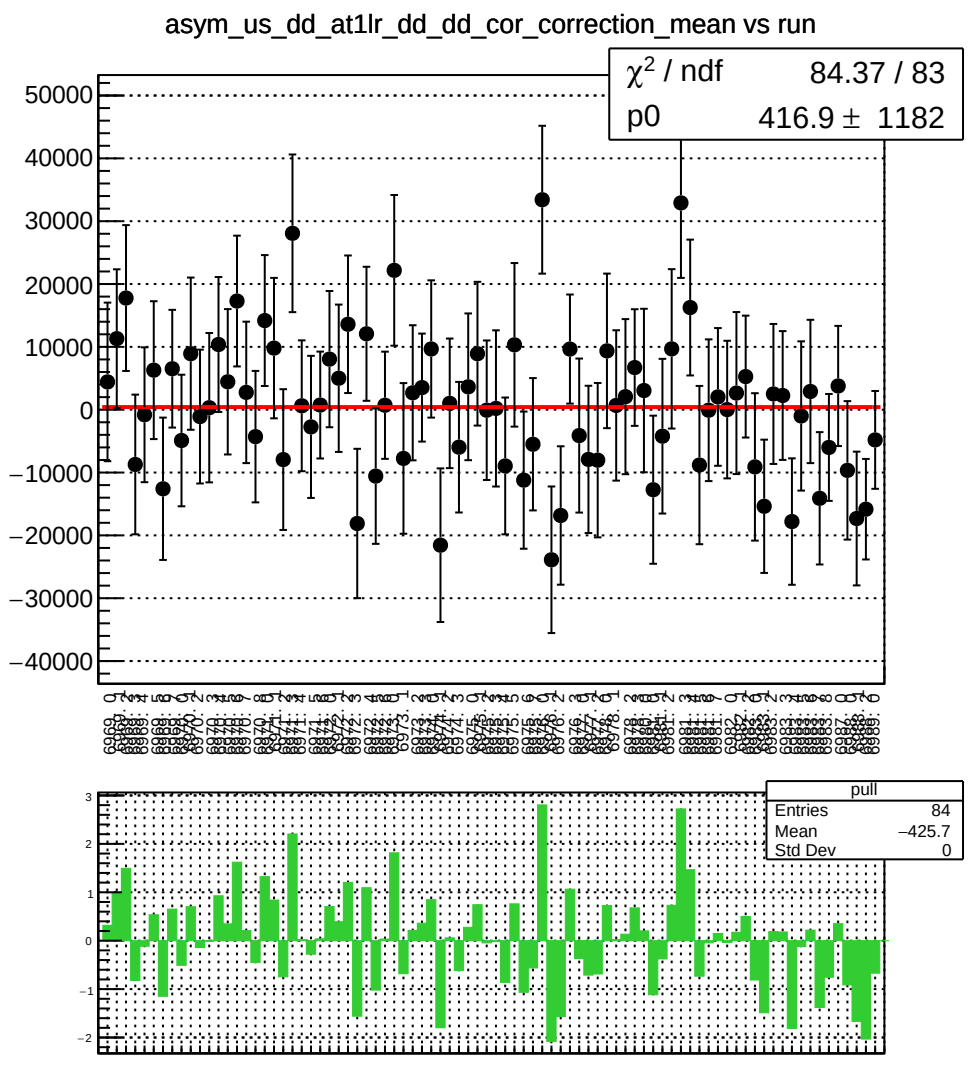

pull1D
Entries 84
Mean 0.0145
Std Dev 1.002

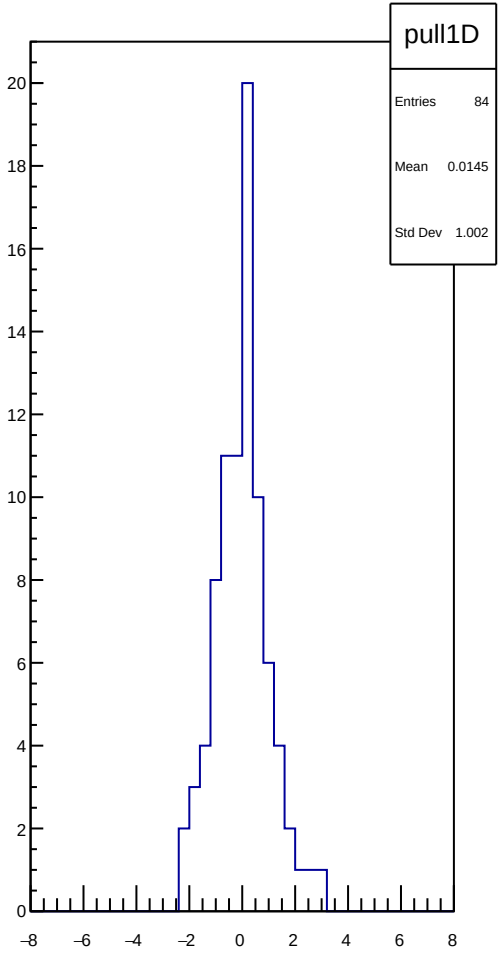

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 6808 / 83
p0 1079 ± 0.8361
1250
1200
1150
1100
1050
1000
950

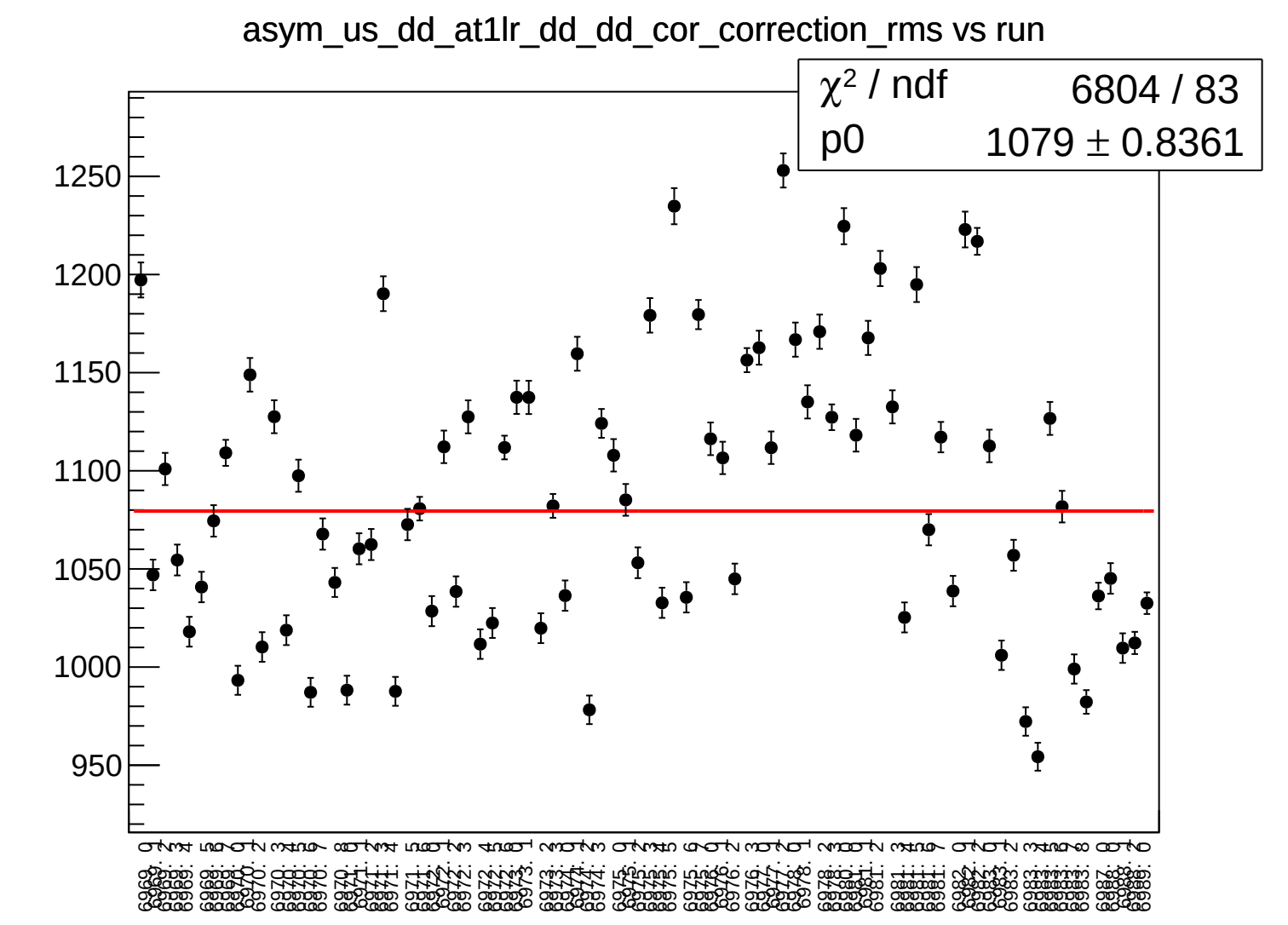

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 90.6 / 83
p0 1490 ± 1897
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −646.2
Std Dev 0
3
2
1
0
−1
−2

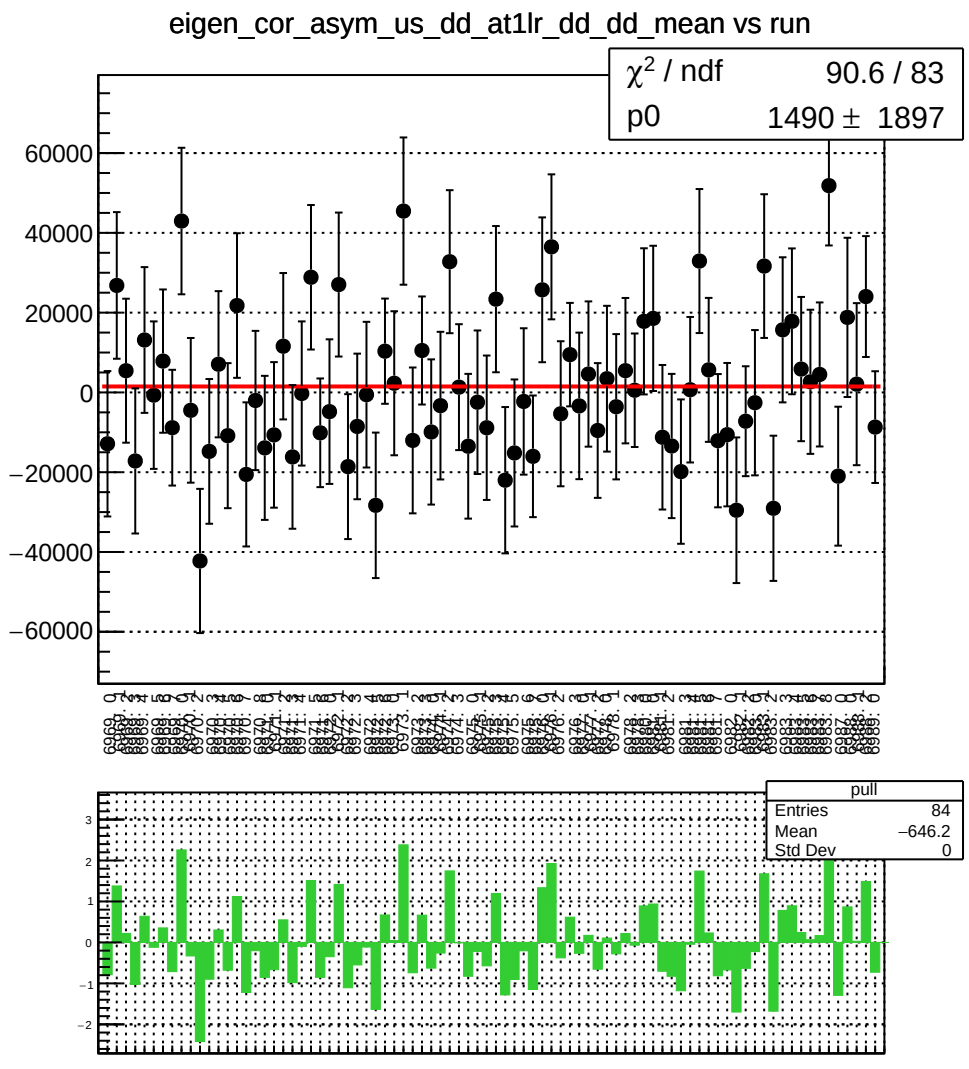

pull1D
Entries 84
Mean −0.003749
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

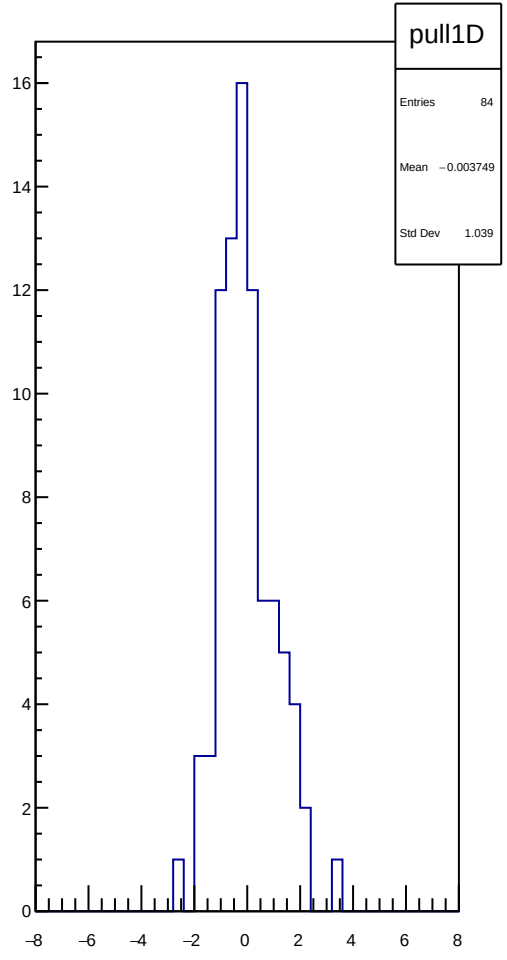

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1037 / 83
p0 1735 ± 1.341
1950
1900
1850
1800
1750
1700

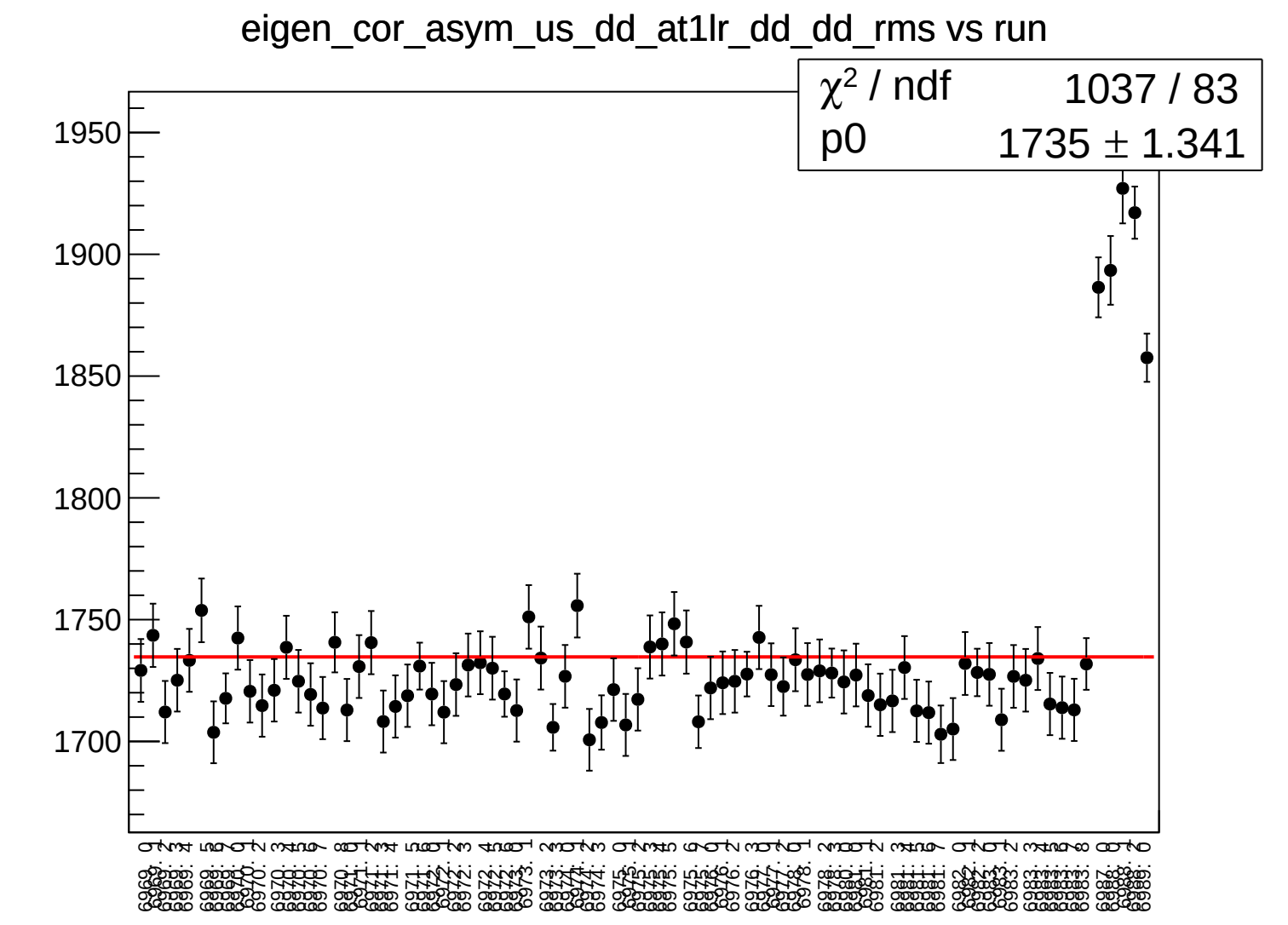

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 84.37 / 83
p0 416.9 ± 1182
pull
Entries 84
Mean −425.7
Std Dev 0

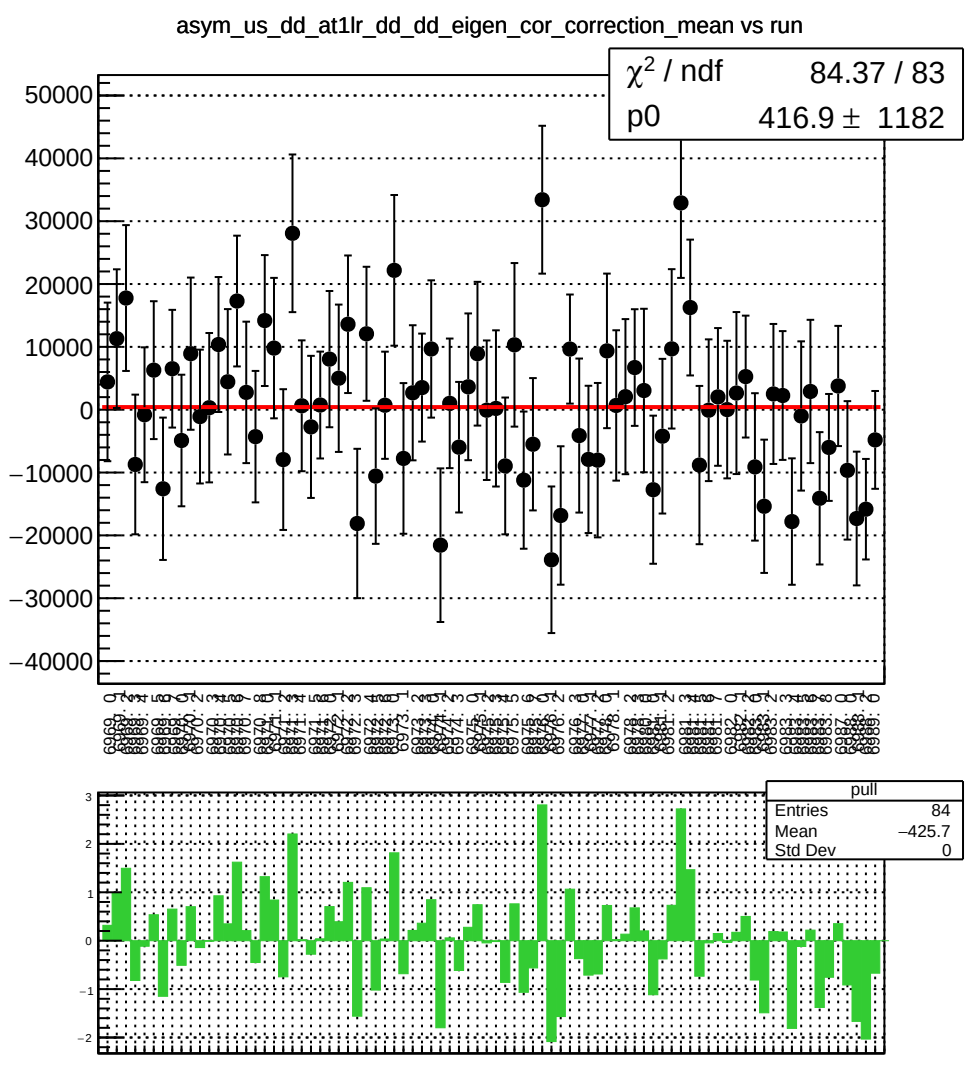

pull1D
Entries 84
Mean 0.0145
Std Dev 1.002

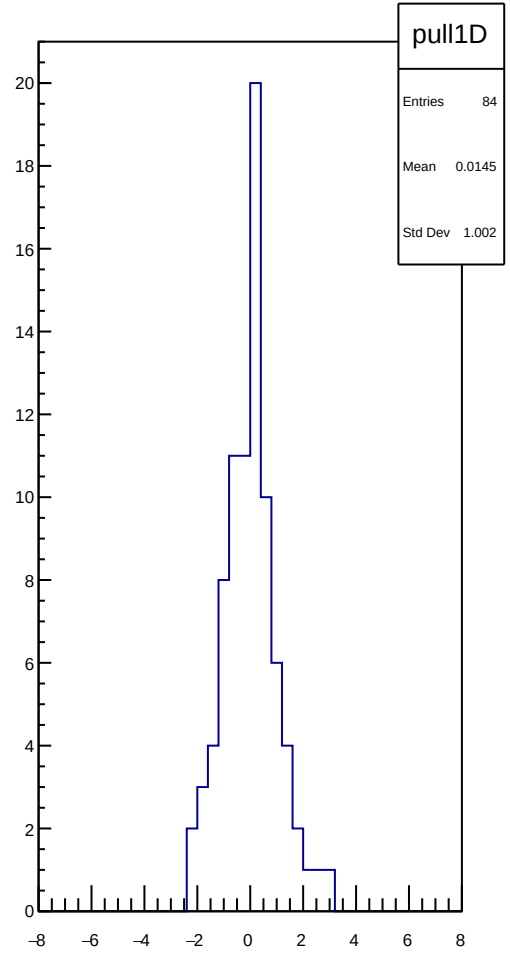

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 6804 / 83
p0 1079 ± 0.8361
1250
1200
1150
1100
1050
1000
950

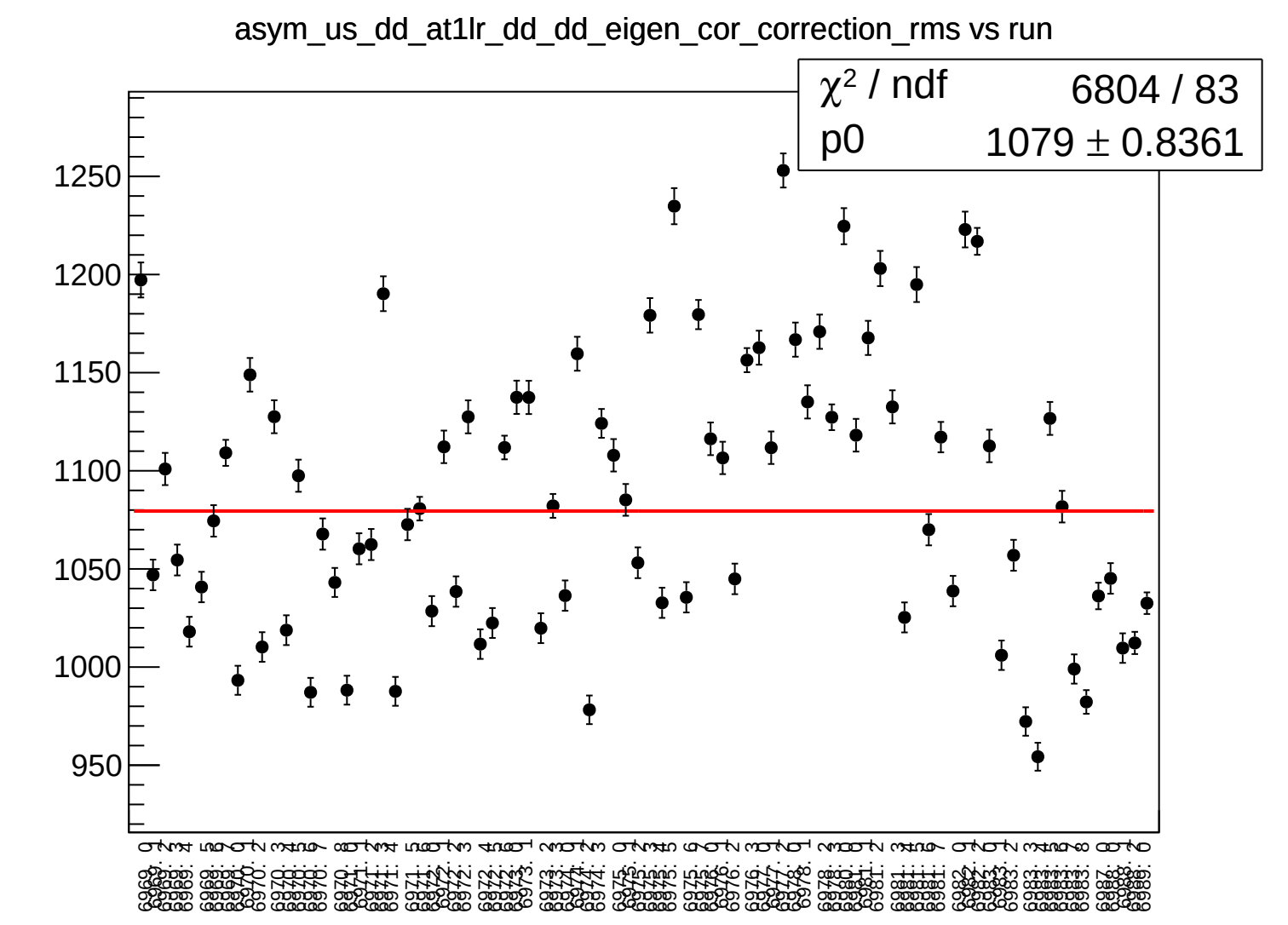

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 90.6 / 83
p0 1490 ± 1897
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −646.2
Std Dev 0
3
2
1
0
−1
−2

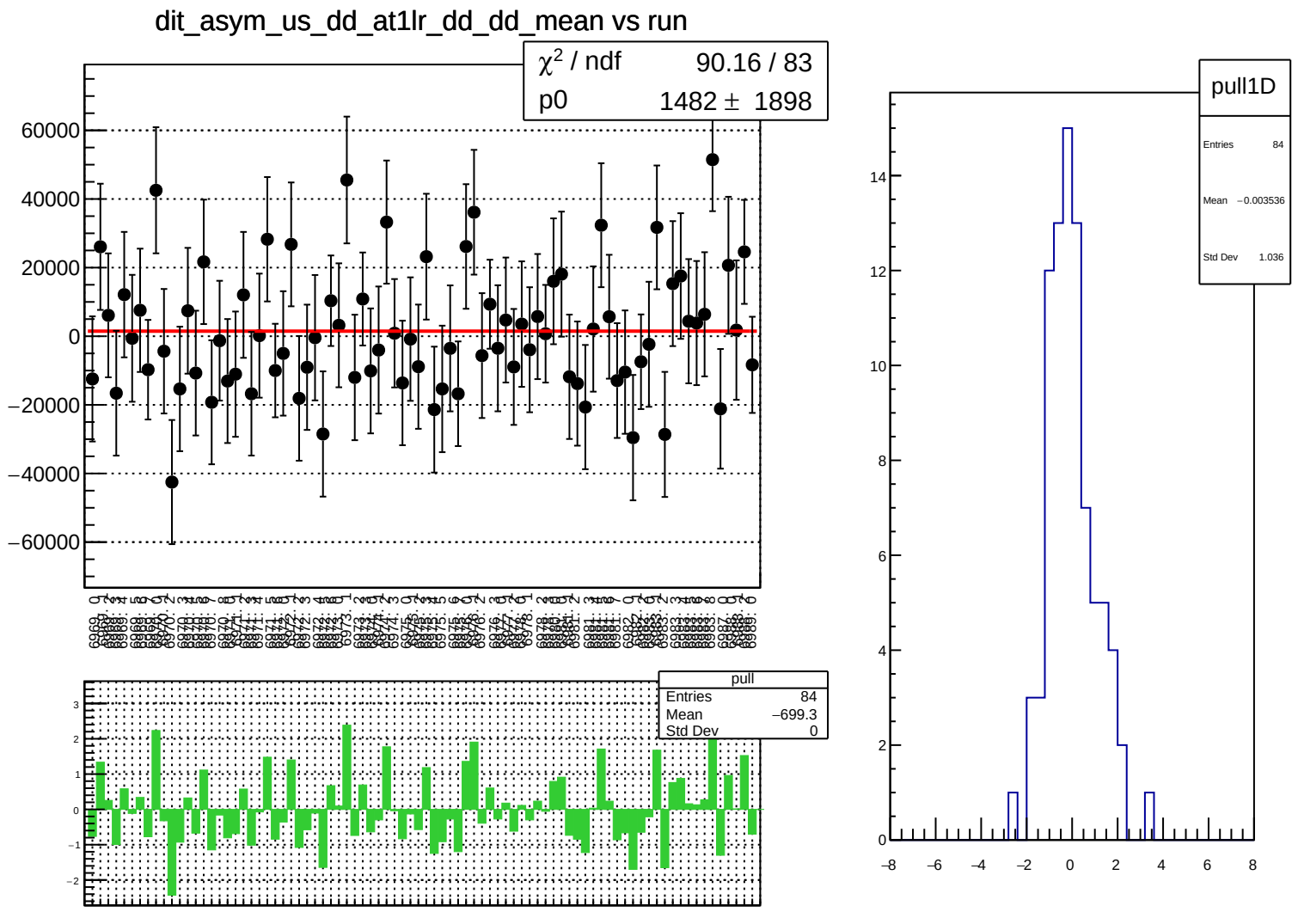

pull1D
Entries 84
Mean −0.003749
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

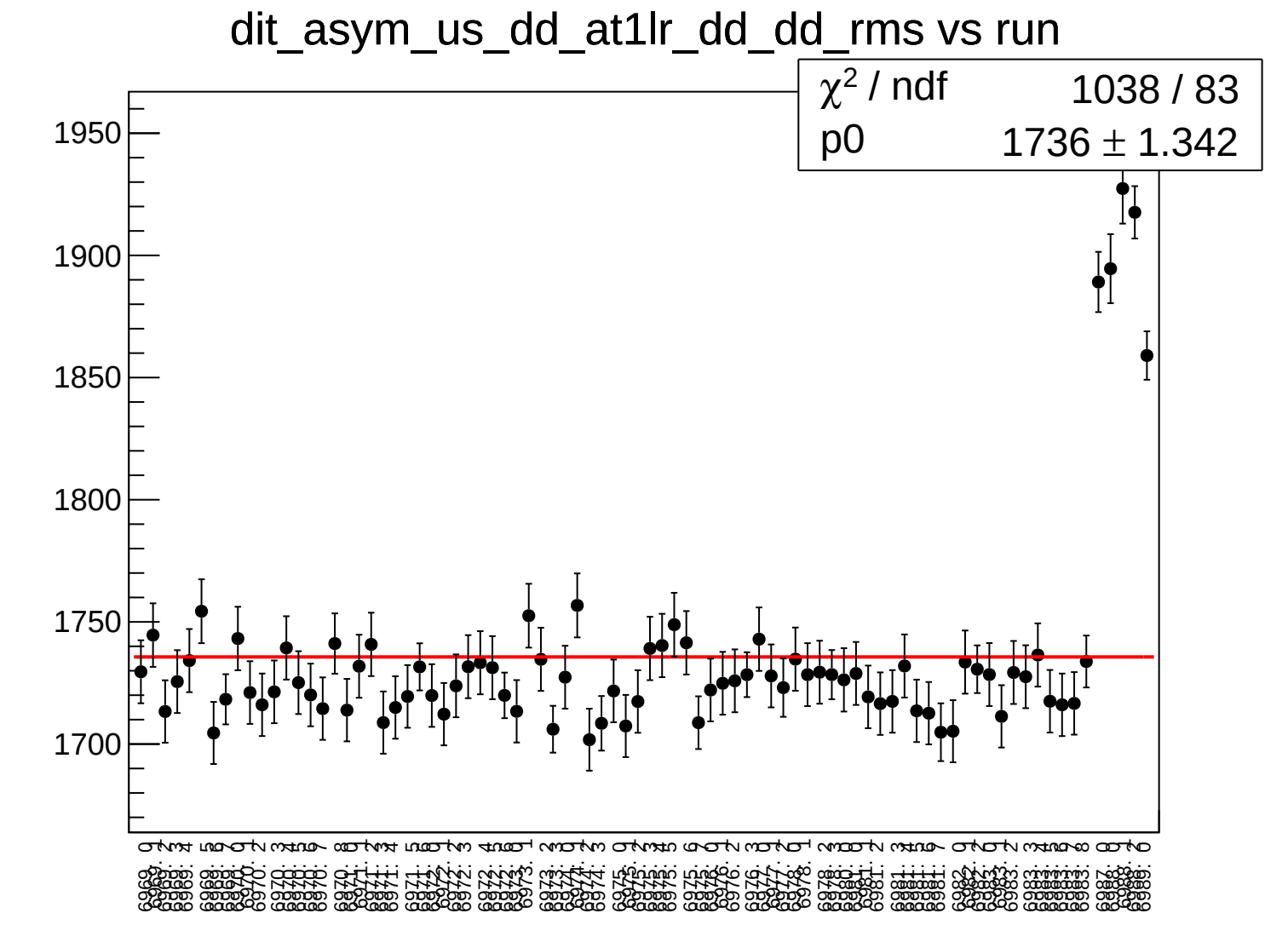

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1037 / 83
p0 1735 ± 1.341
1950
1900
1850
1800
1750
1700

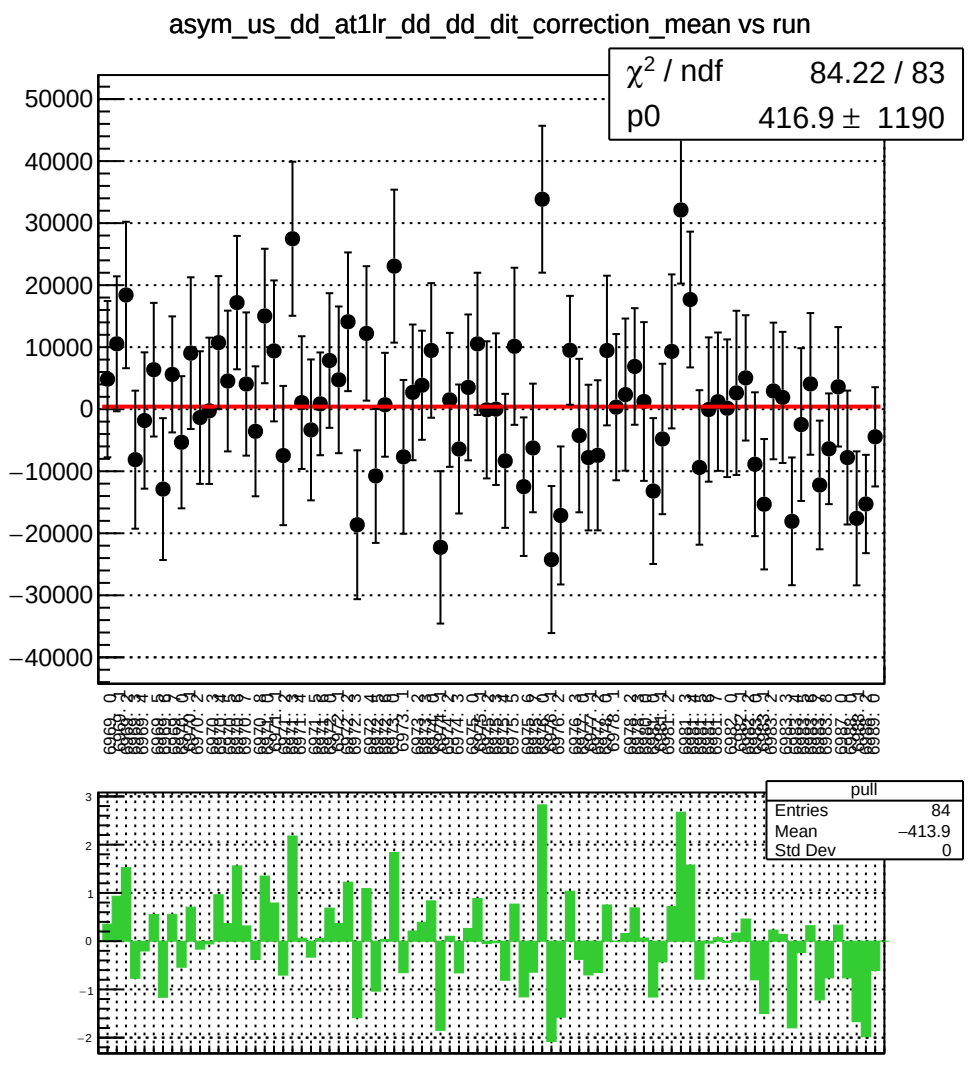

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.37 / 83
p0 416.9 ± 1182
pull
Entries 84
Mean −425.7
Std Dev 0

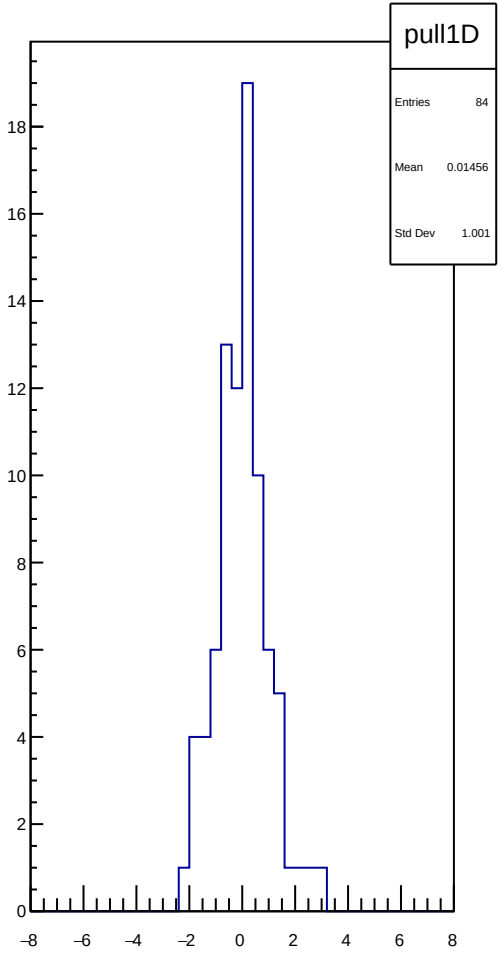

pull1D
Entries 84
Mean 0.0145
Std Dev 1.002

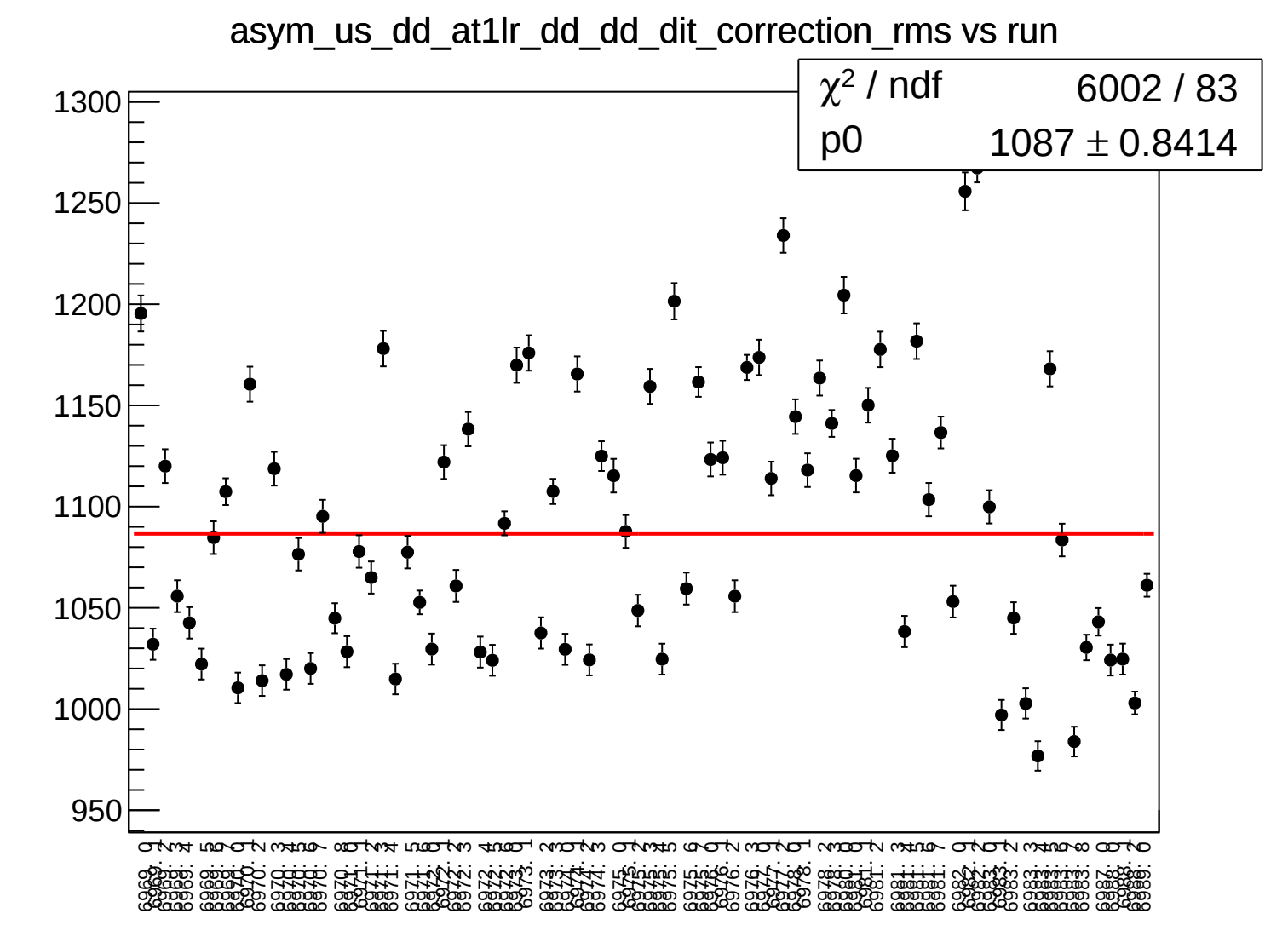

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6804 / 83
p0 1079 ± 0.8361
1250
1200
1150
1100
1050
1000
950

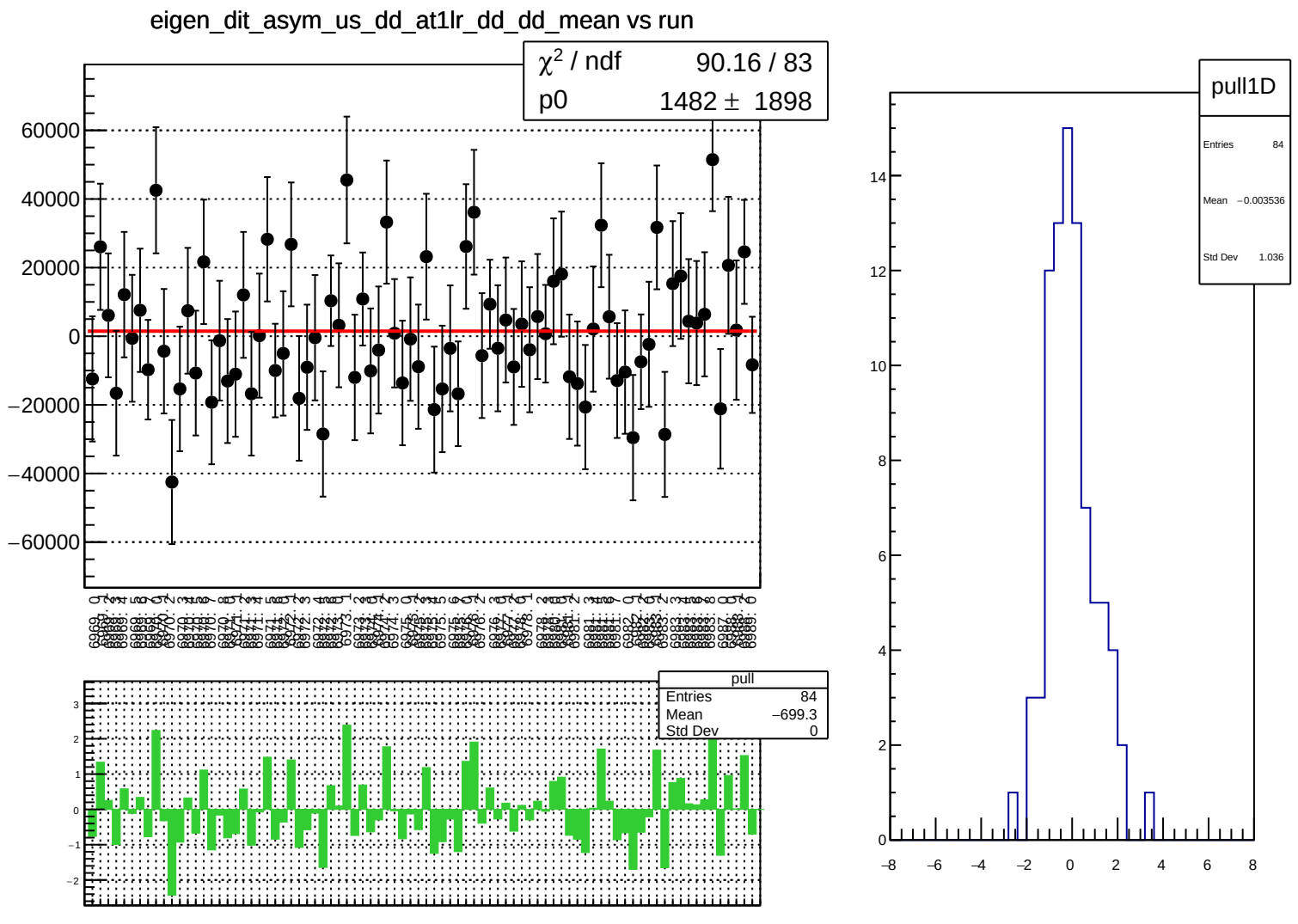

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 90.16 / 83
p0 1482 ± 1898
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −699.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.003536
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

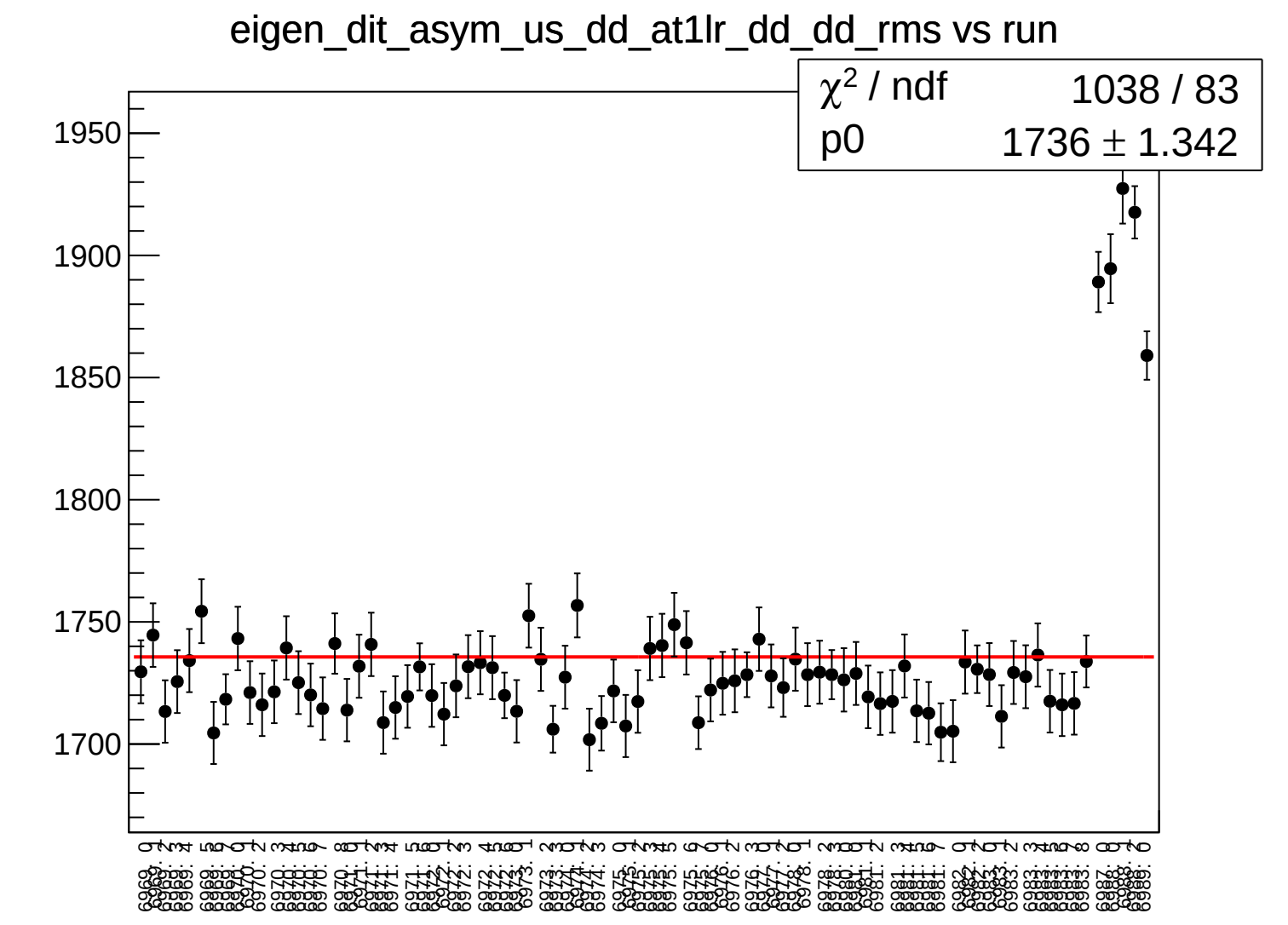

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1038 / 83
p0 1736 ± 1.342
1950
1900
1850
1800
1750
1700

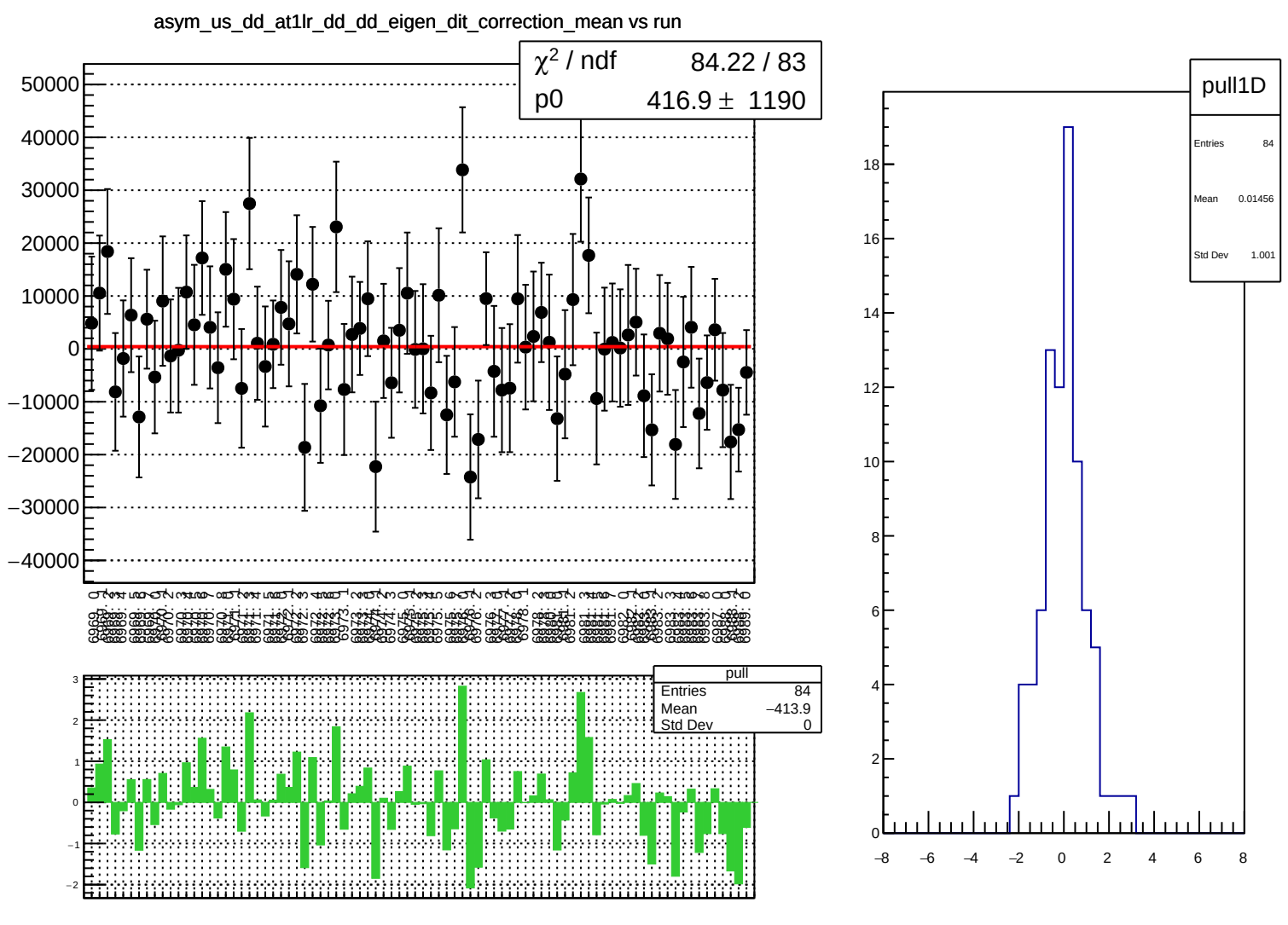

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 84.22 / 83
p0 416.9 ± 1190
pull
Entries 84
Mean −413.9
Std Dev 0

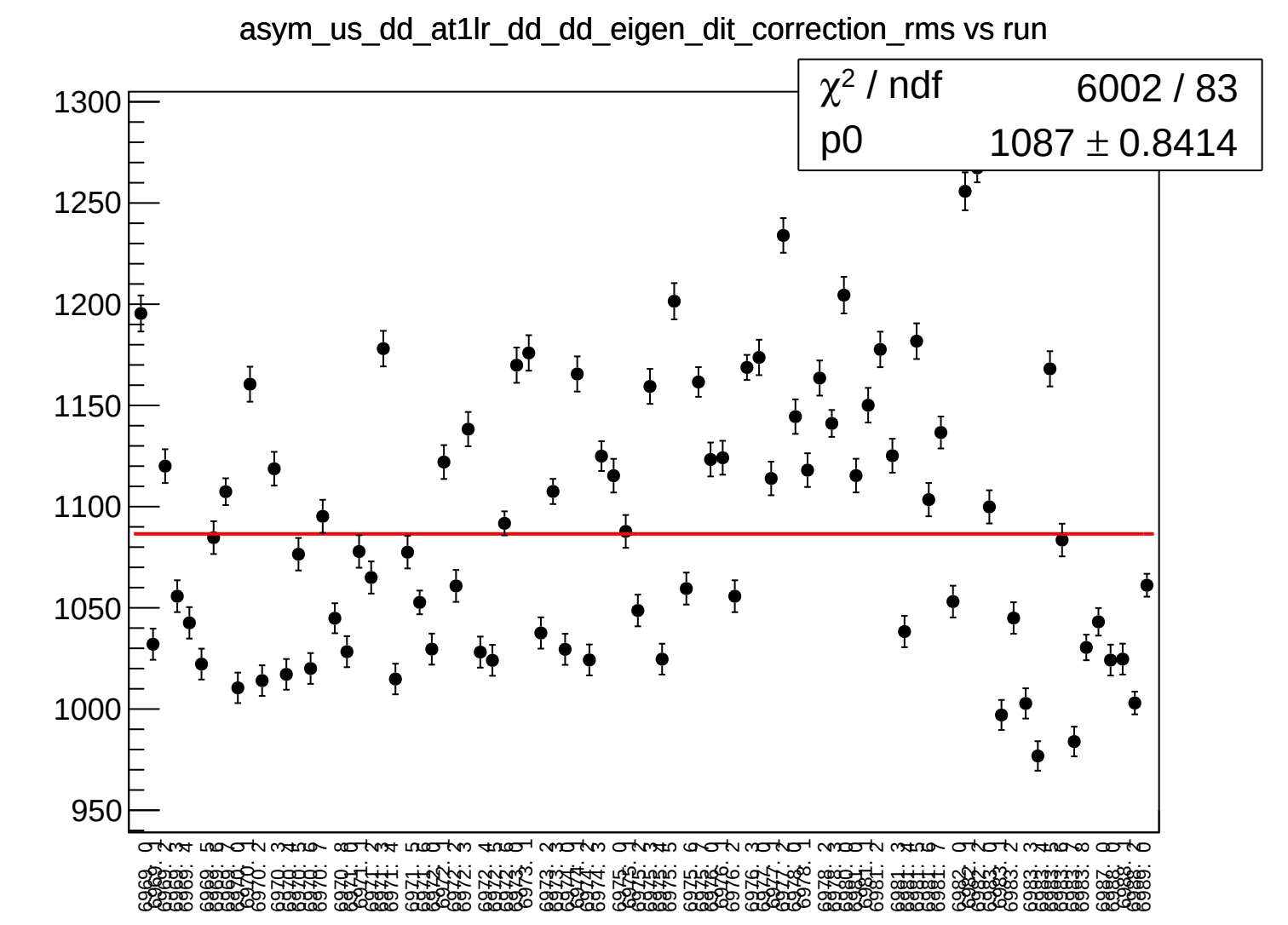

pull1D
Entries 84
Mean 0.01456
Std Dev 1.001

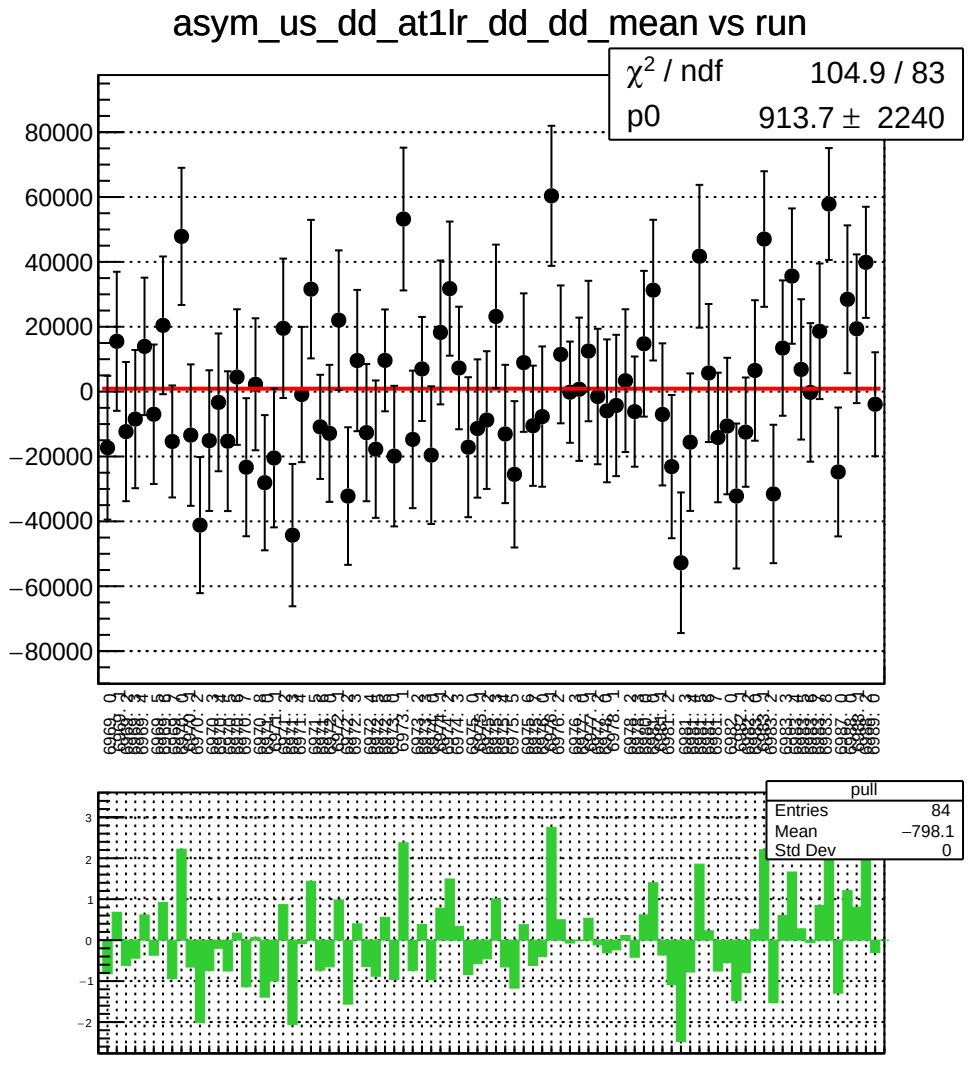

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 6002 / 83
p0 1087 ± 0.8414
1300
1250
1200
1150
1100
1050
1000
950

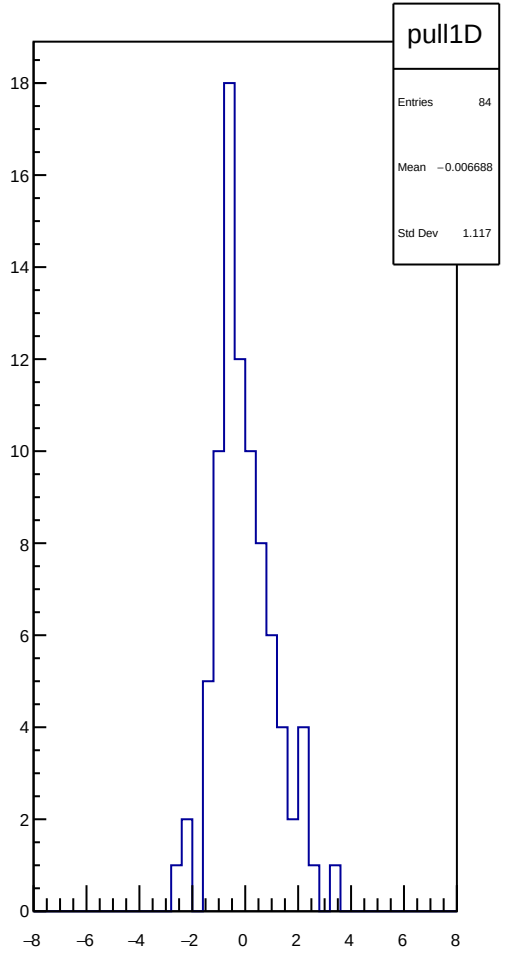

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 90.16 / 83
p0 1482 ± 1898
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −699.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.003536
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

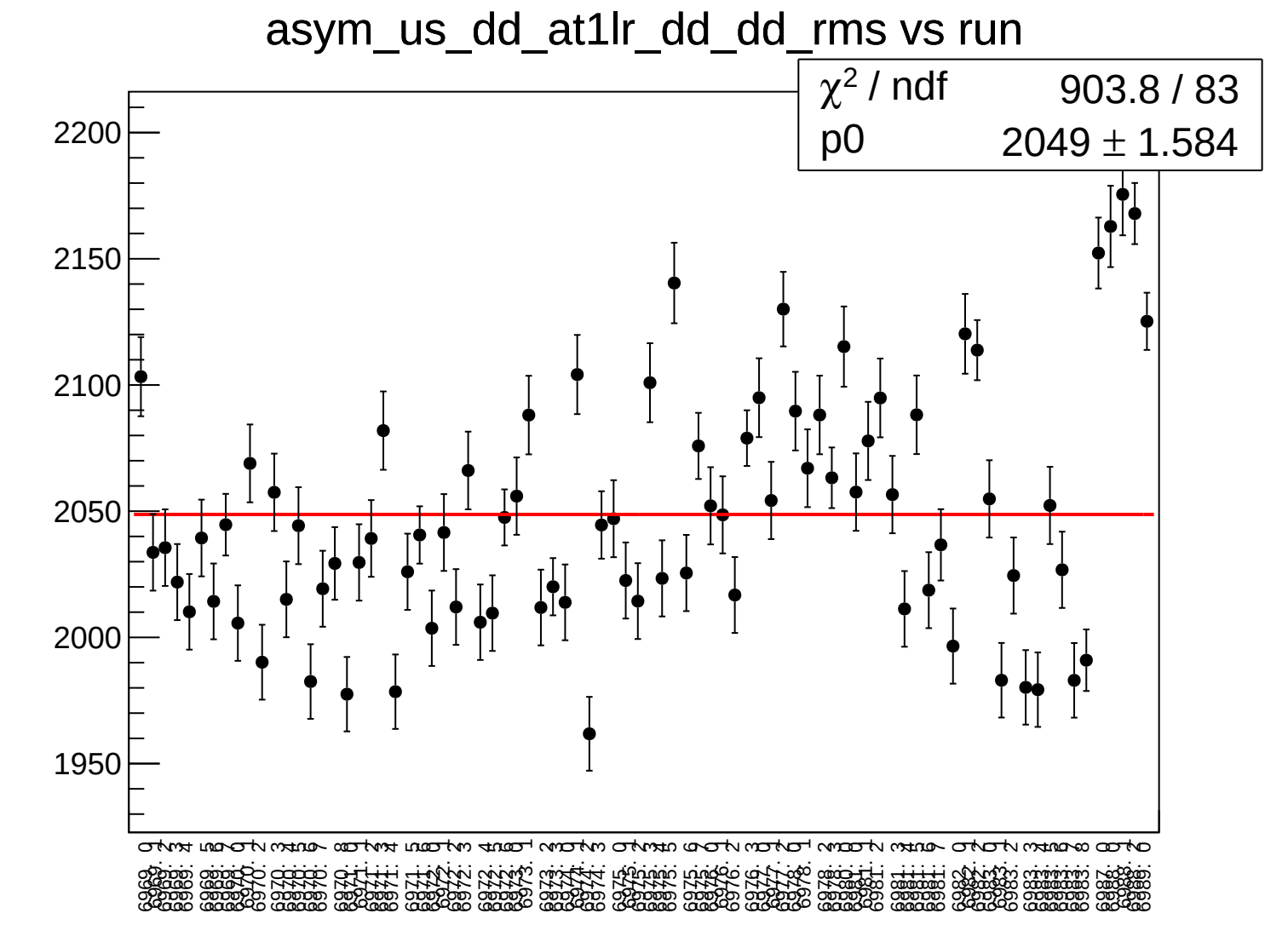

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1038 / 83
p0 1736 ± 1.342
1950
1900
1850
1800
1750
1700

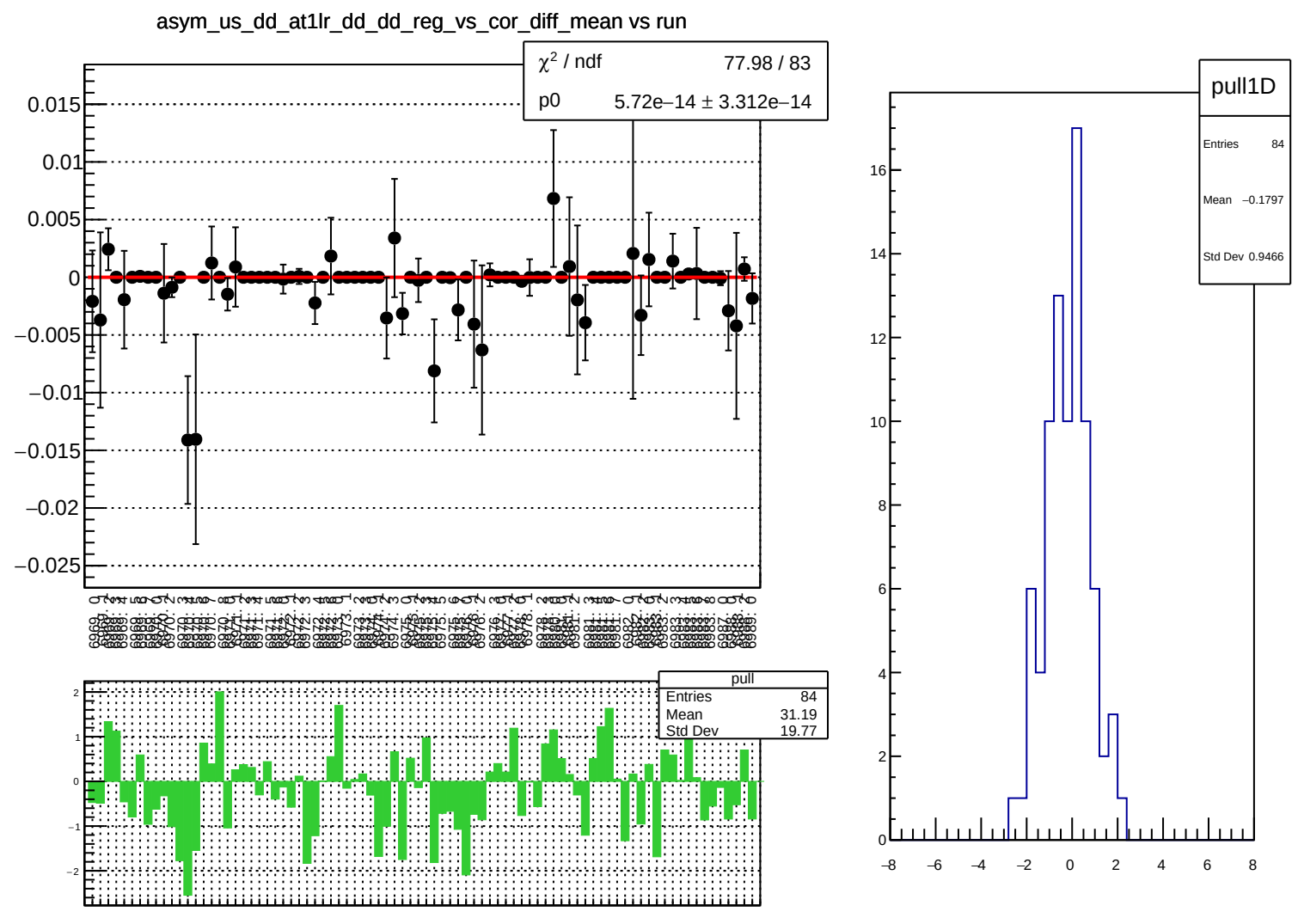

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.22 / 83
p0 416.9 ± 1190
pull
Entries 84
Mean −413.9
Std Dev 0
pull1D
Entries 84
Mean 0.01456
Std Dev 1.001

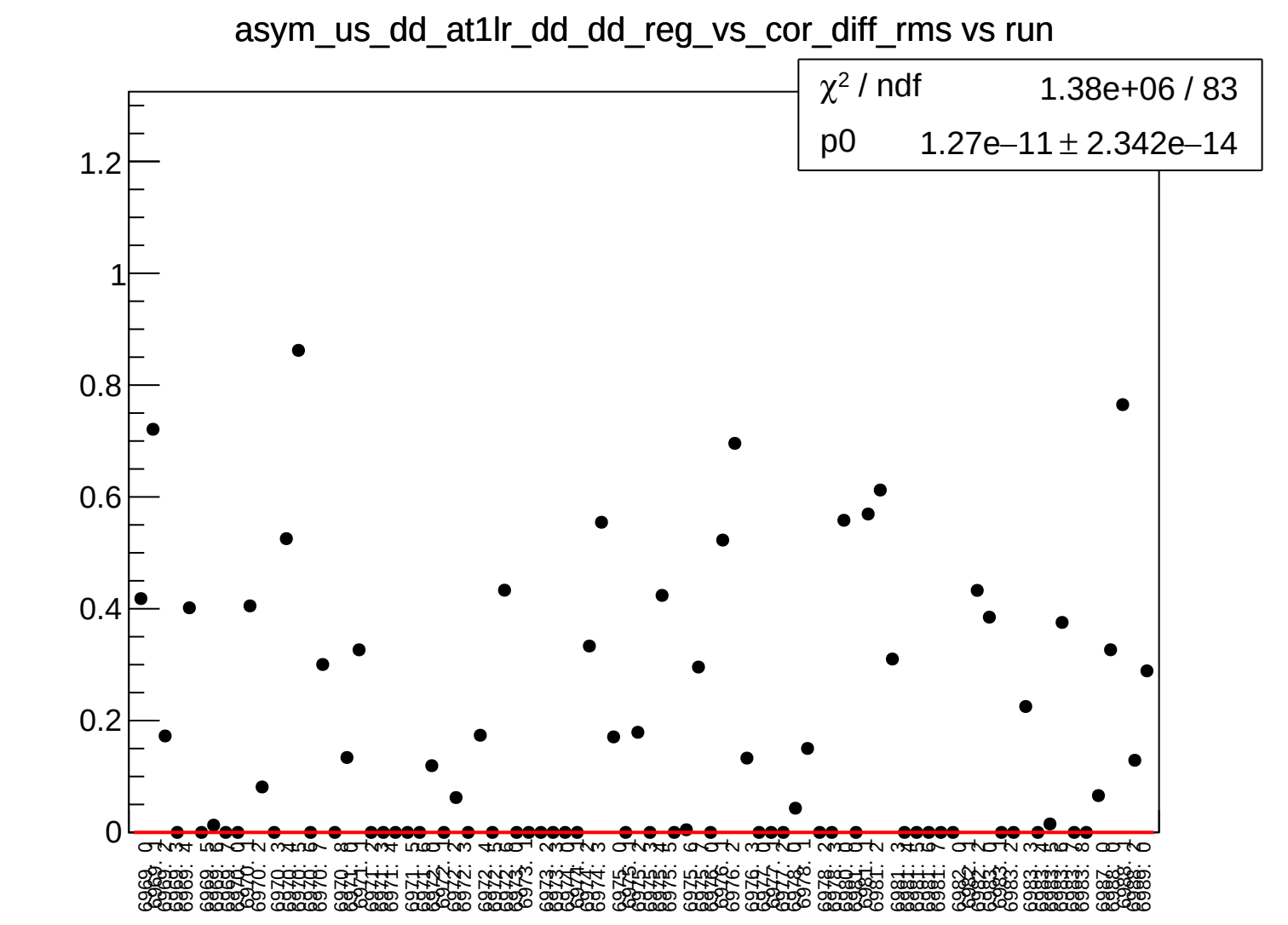

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6002 / 83
p0 1087 ± 0.8414
1300
1250
1200
1150
1100
1050
1000
950

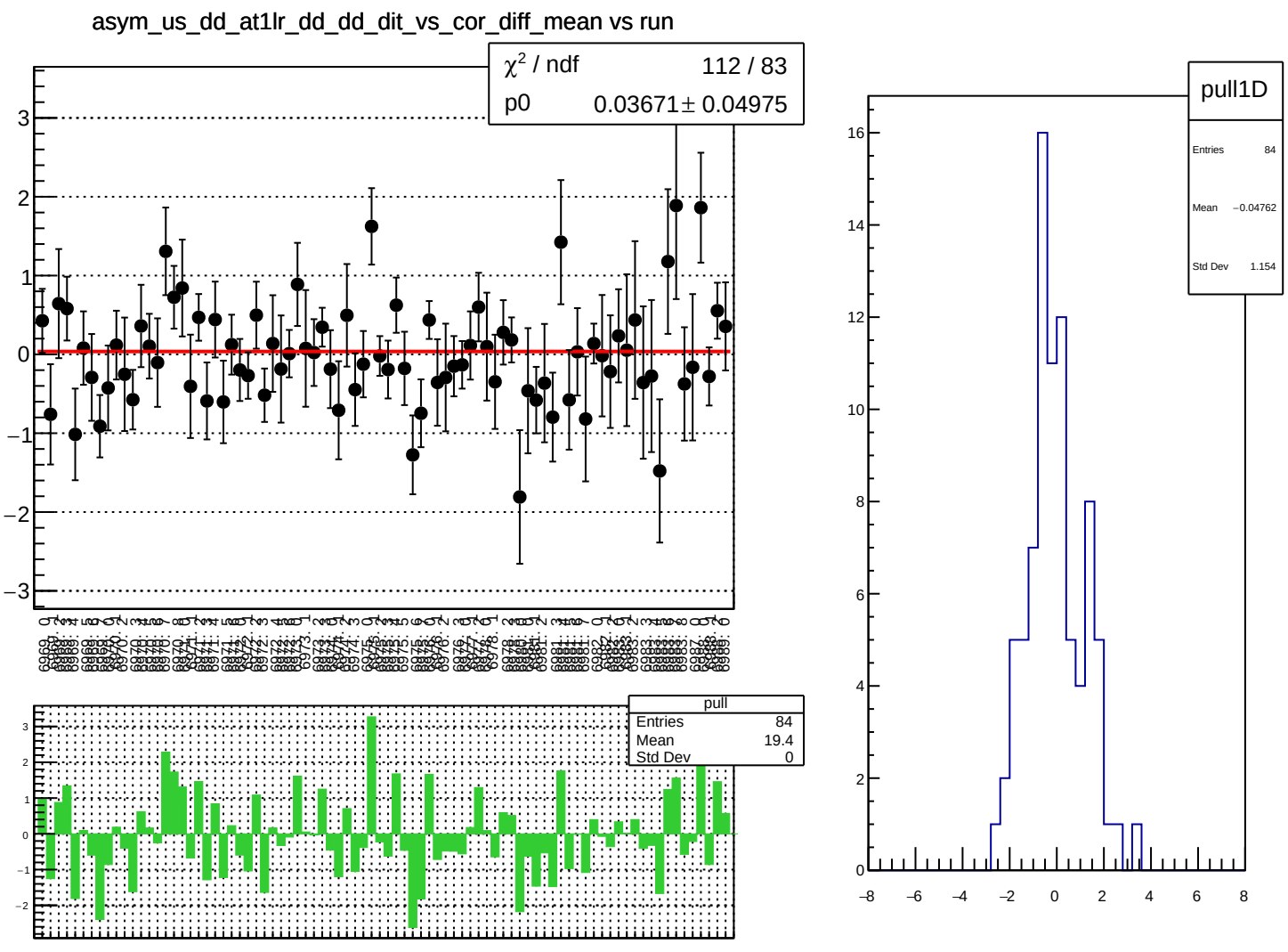

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 104.9 / 83
p0 913.7 ± 2240
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −798.1
Std Dev 0
3
2
1
0
−1
−2

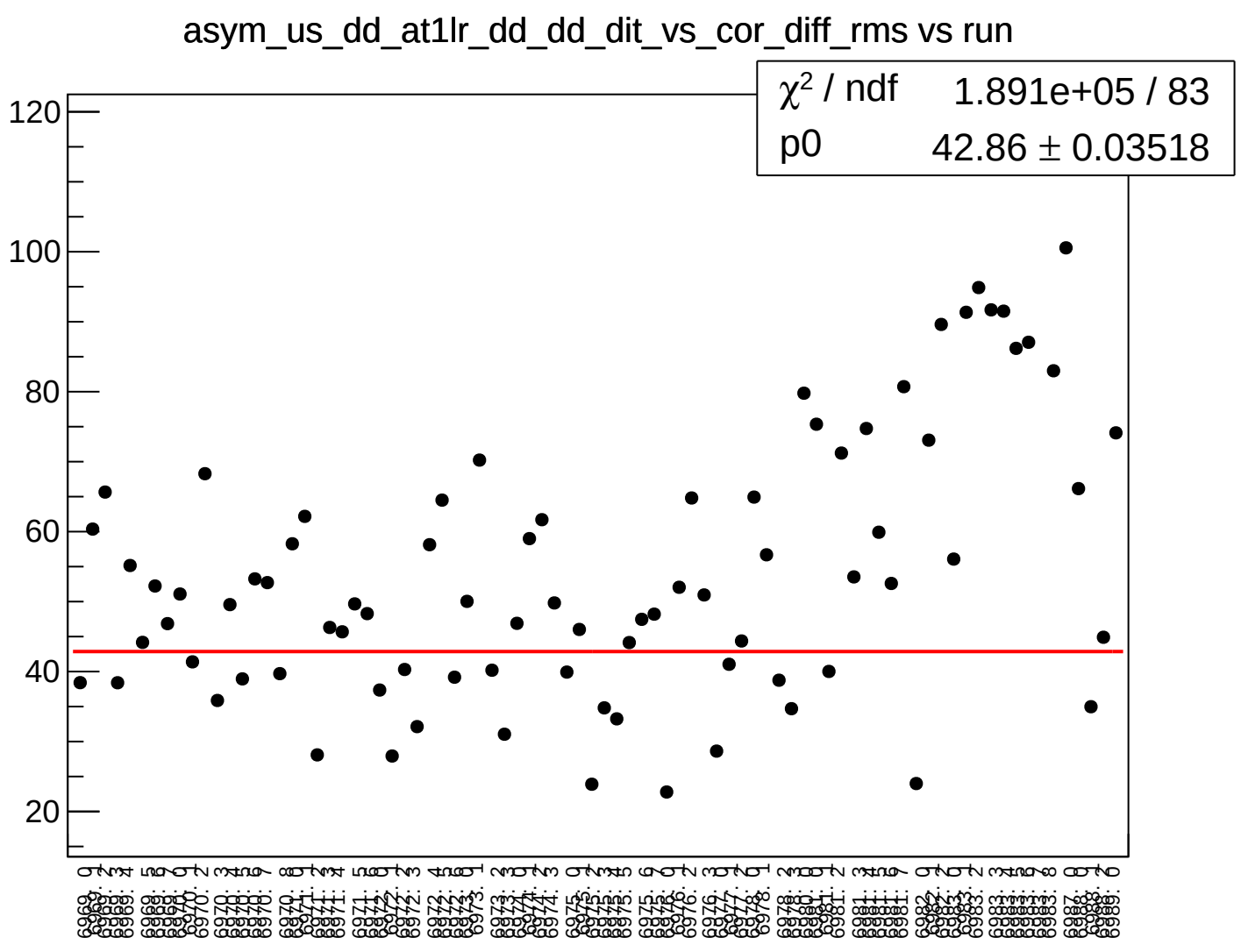

pull1D
Entries 84
Mean −0.006688
Std Dev 1.117
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

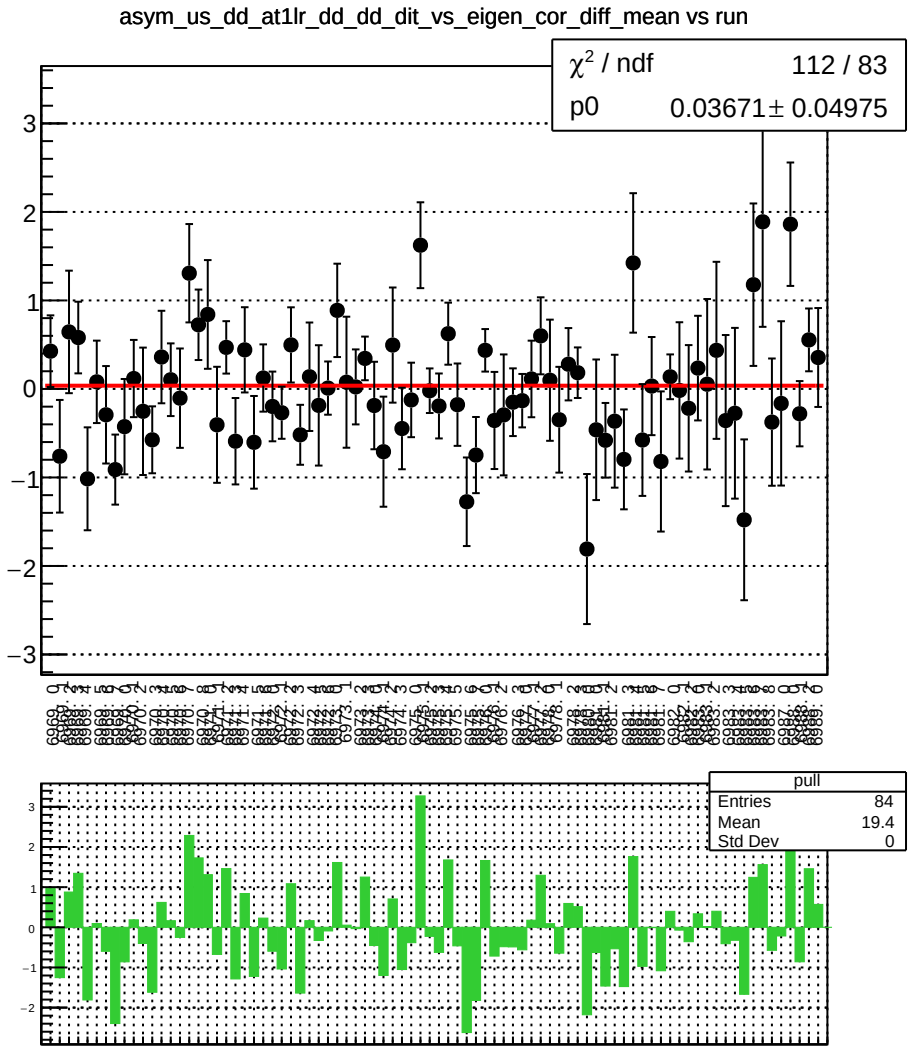

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 903.8 / 83
p0 2049 ± 1.584
2200
2150
2100
2050
2000
1950

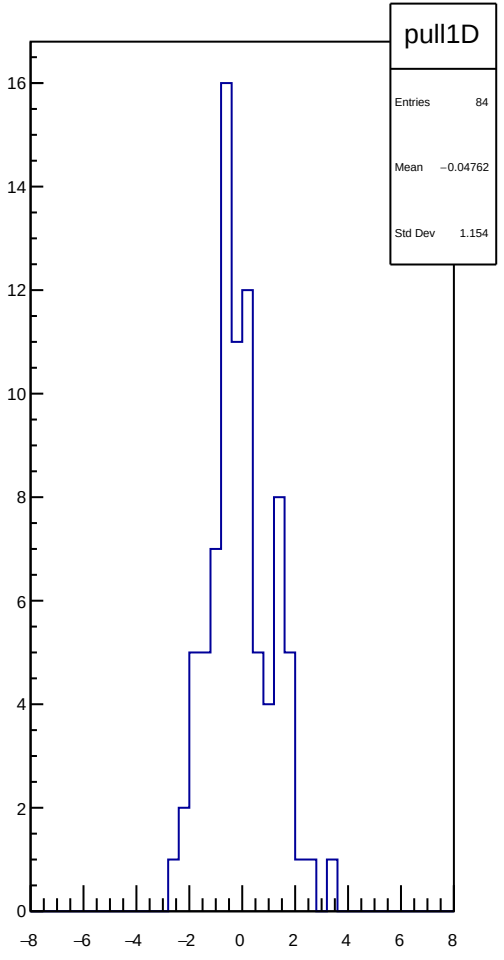

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.98 / 83
p0 5.72e−14 ± 3.312e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 84
Mean 31.19
Std Dev 19.77
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.1797
Std Dev 0.9466
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

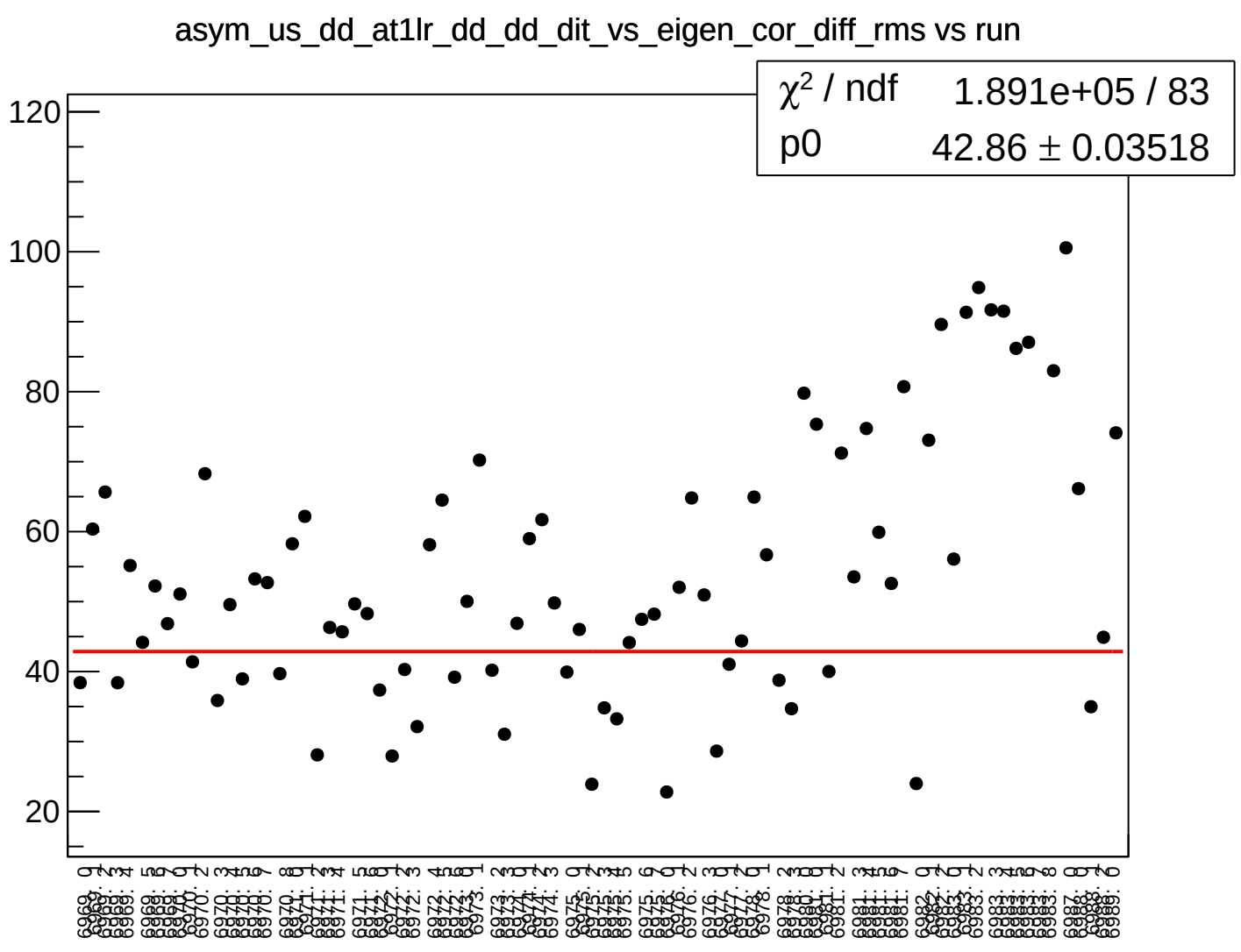

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.38e+06 / 83
p0 1.27e−11 ± 2.342e−14
1.2
1
0.8
0.6
0.4
0.2
0

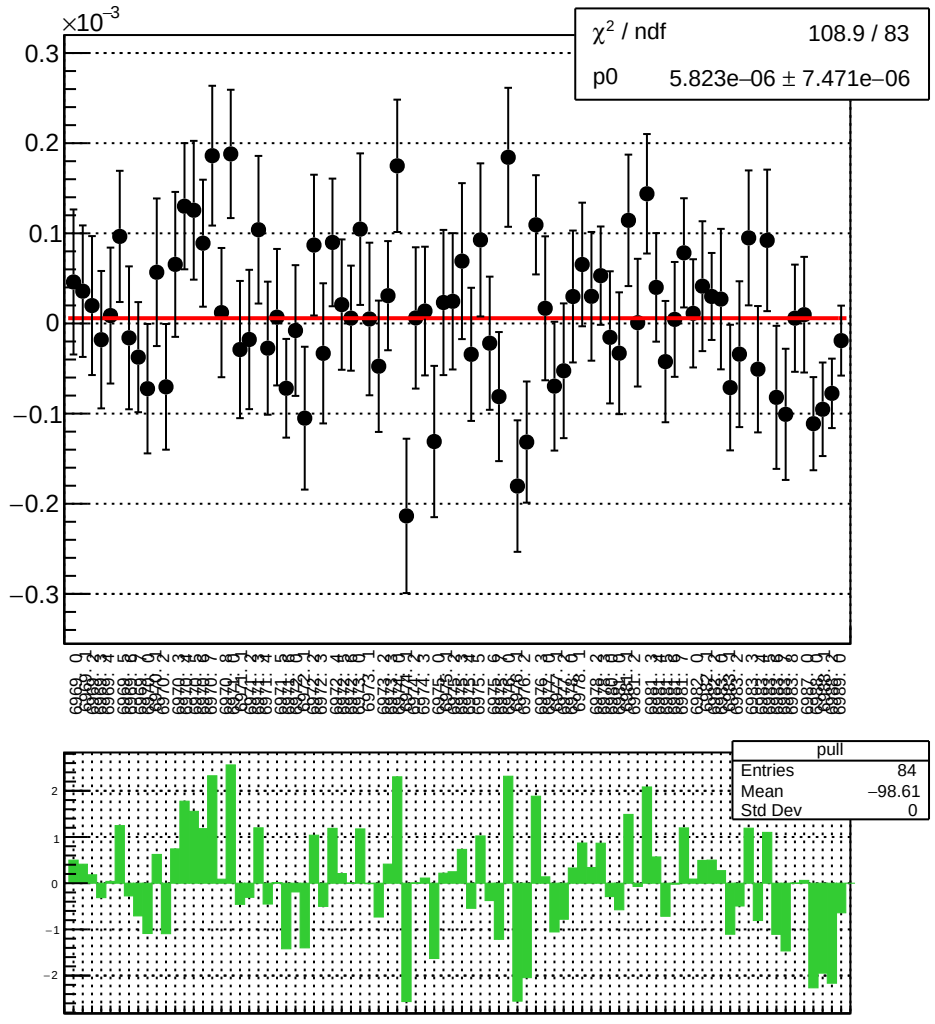

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112 / 83
p0 0.03671 ± 0.04975
pull
Entries 84
Mean 19.4
Std Dev 0
pull1D
Entries 84
Mean −0.04762
Std Dev 1.154

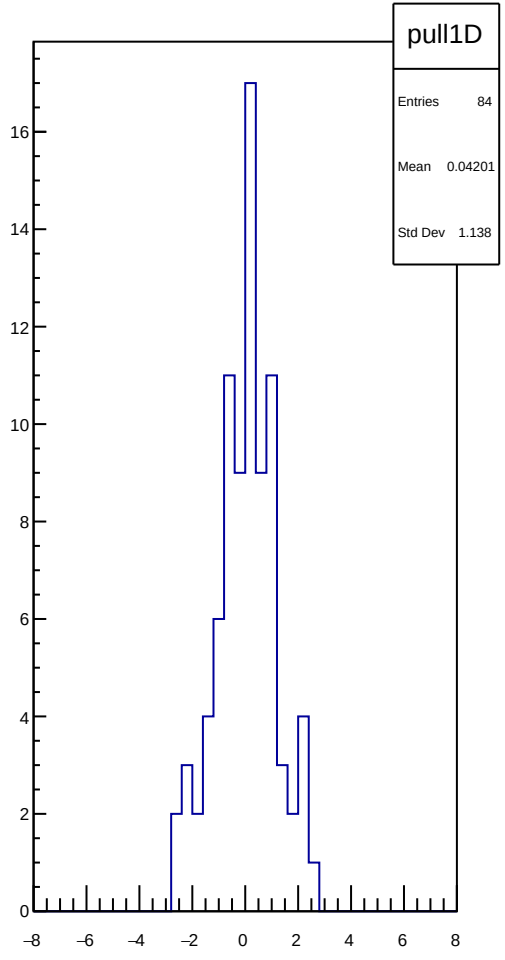

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.891e+05 / 83
p0 42.86 ± 0.03518
120
100
80
60
40
20

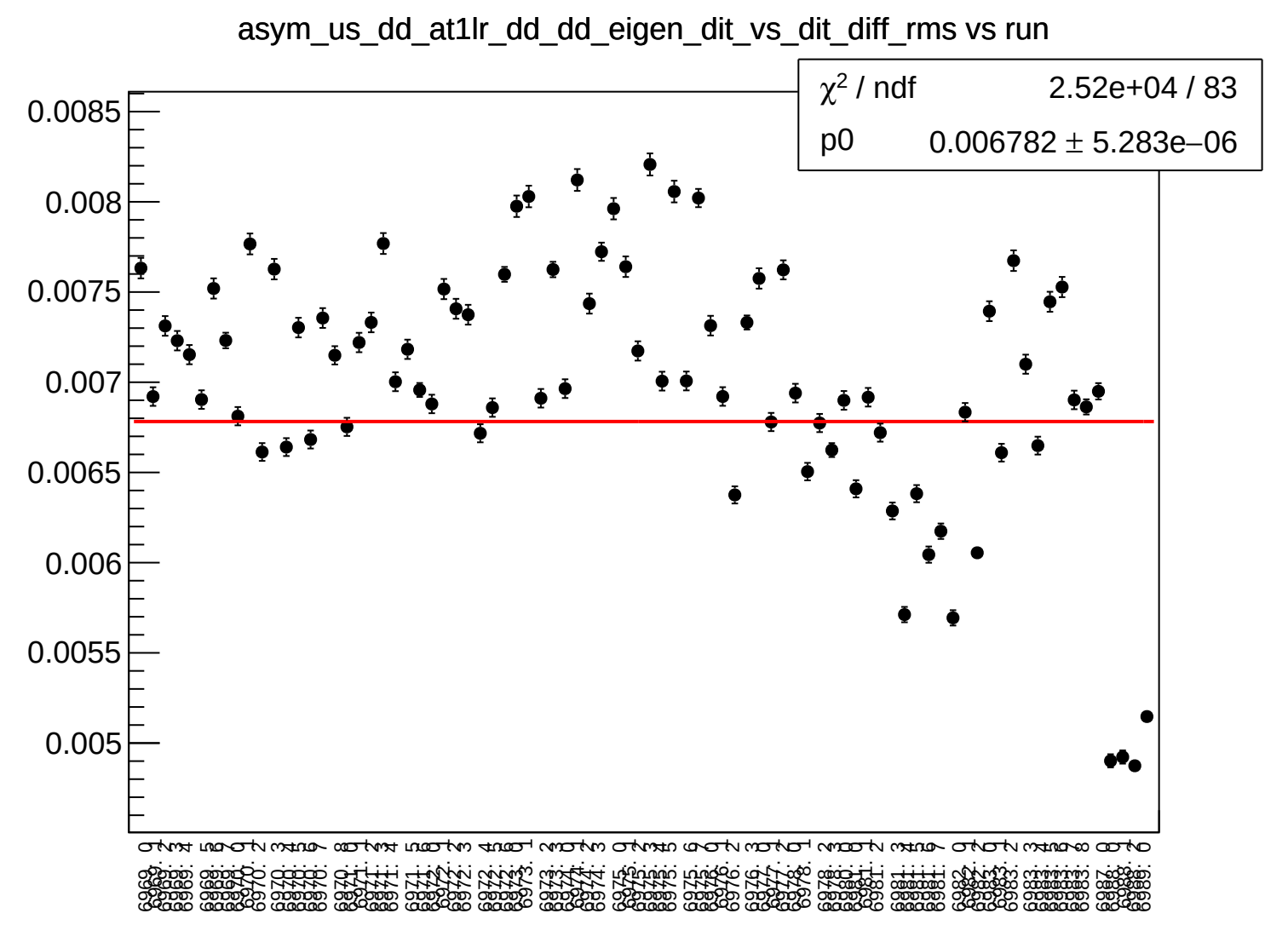

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112 / 83
p0 0.03671 ± 0.04975
pull
Entries 84
Mean 19.4
Std Dev 0

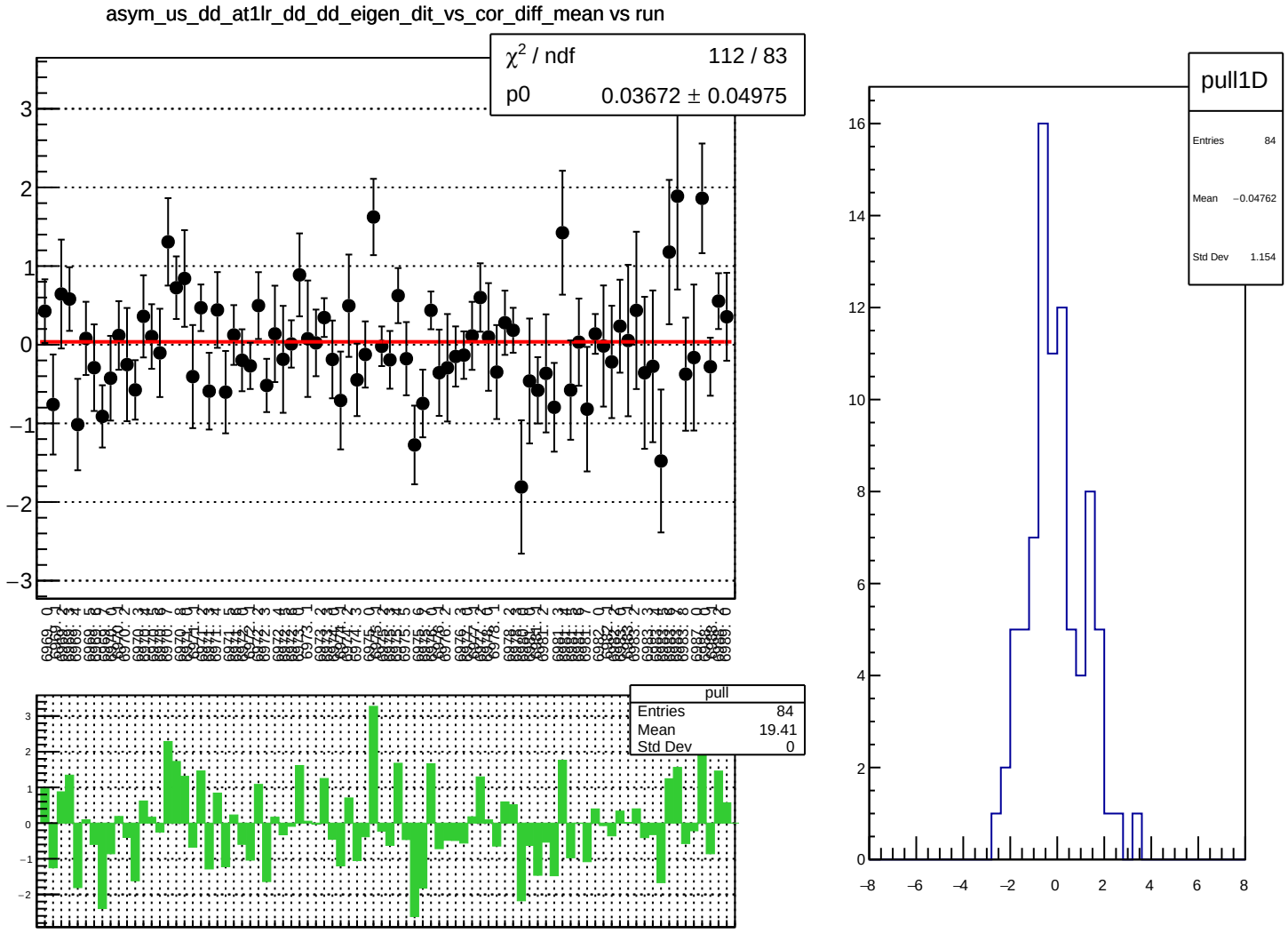

pull1D
Entries 84
Mean −0.04762
Std Dev 1.154

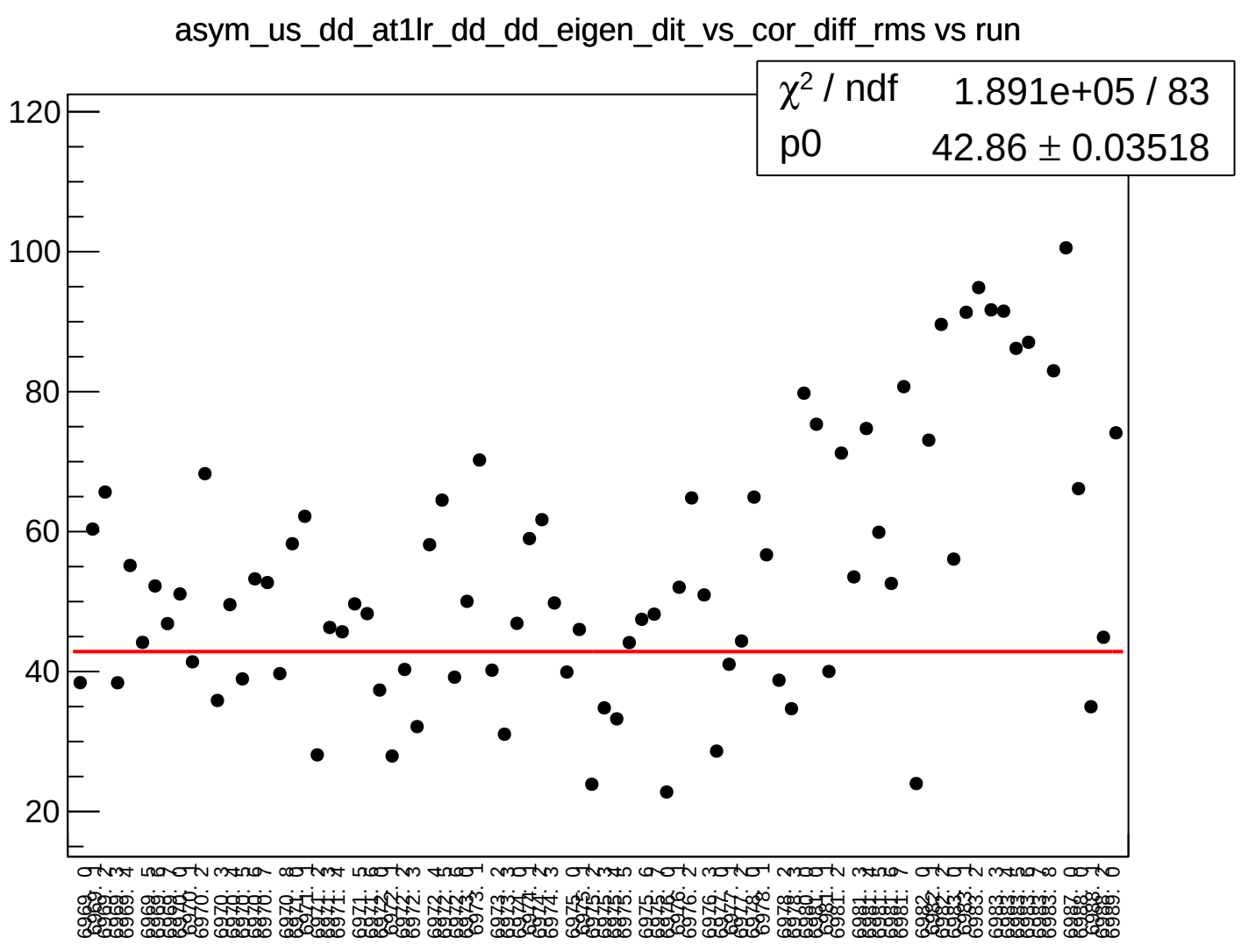

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.891e+05 / 83
p0 42.86 ± 0.03518
120
100
80
60
40
20

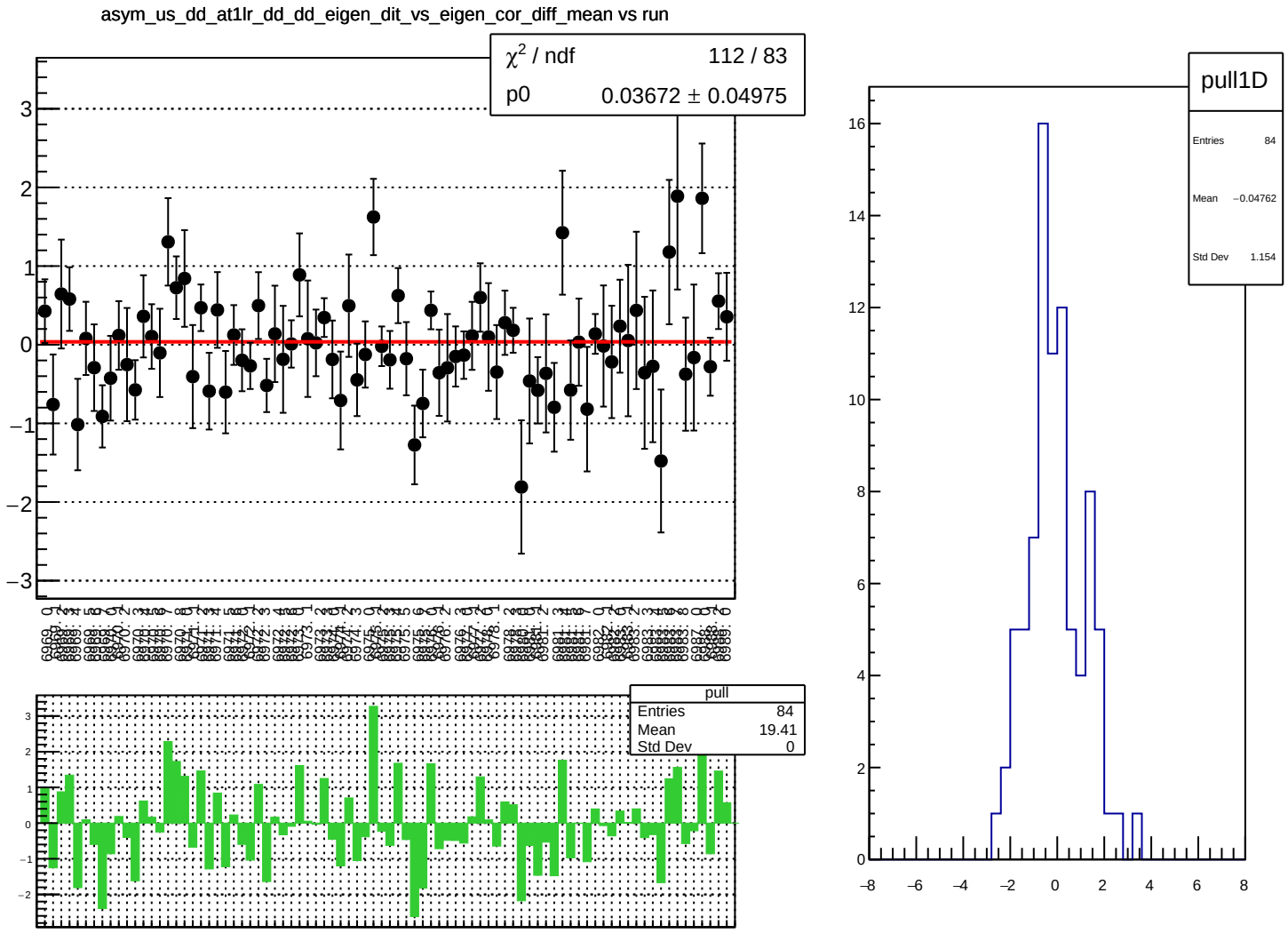

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.9 / 83
p0 5.823e−06 ± 7.471e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 84
Mean −98.61
Std Dev 0
2
1
0
−1
−2

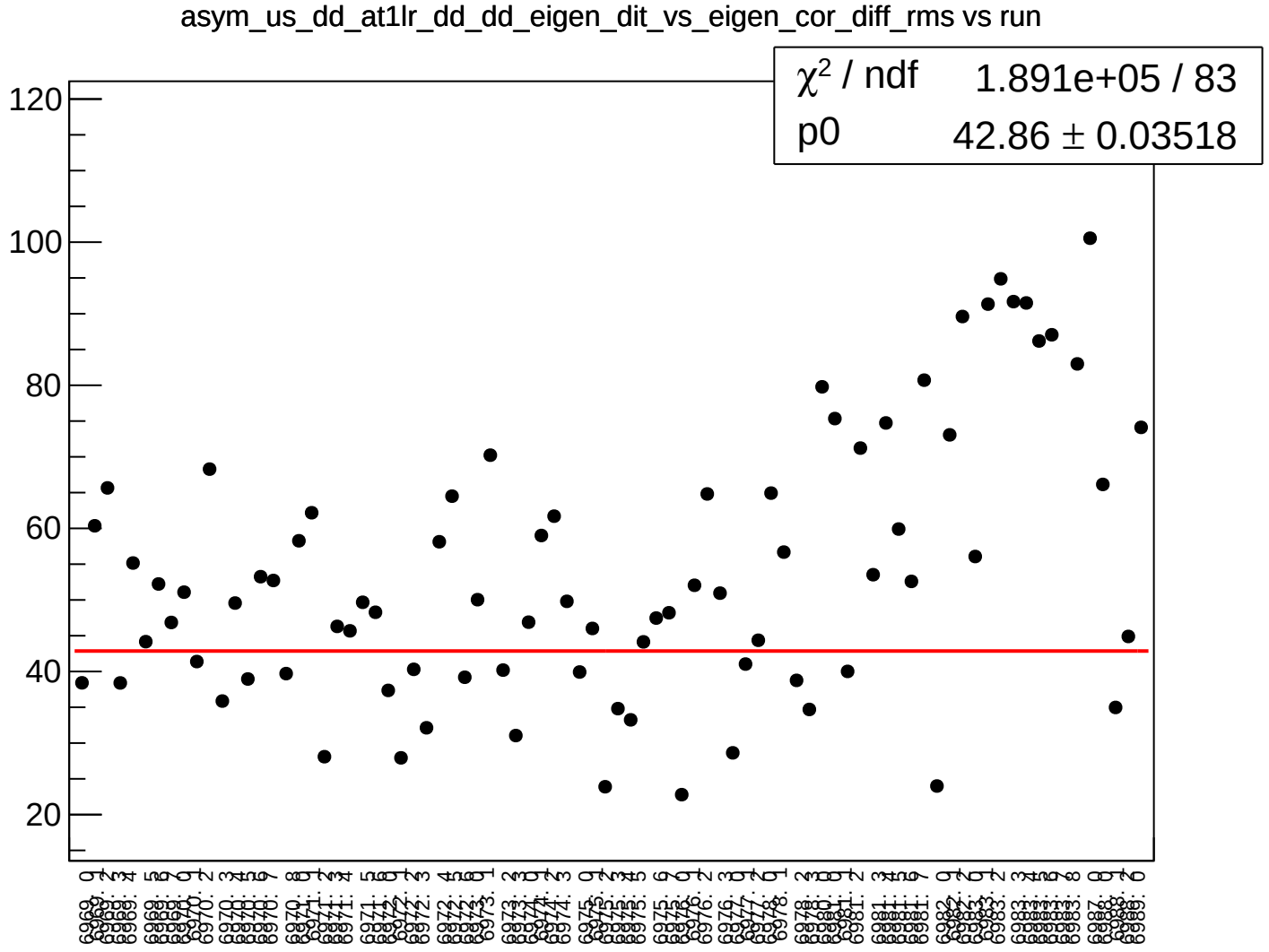

pull1D
Entries 84
Mean 0.04201
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

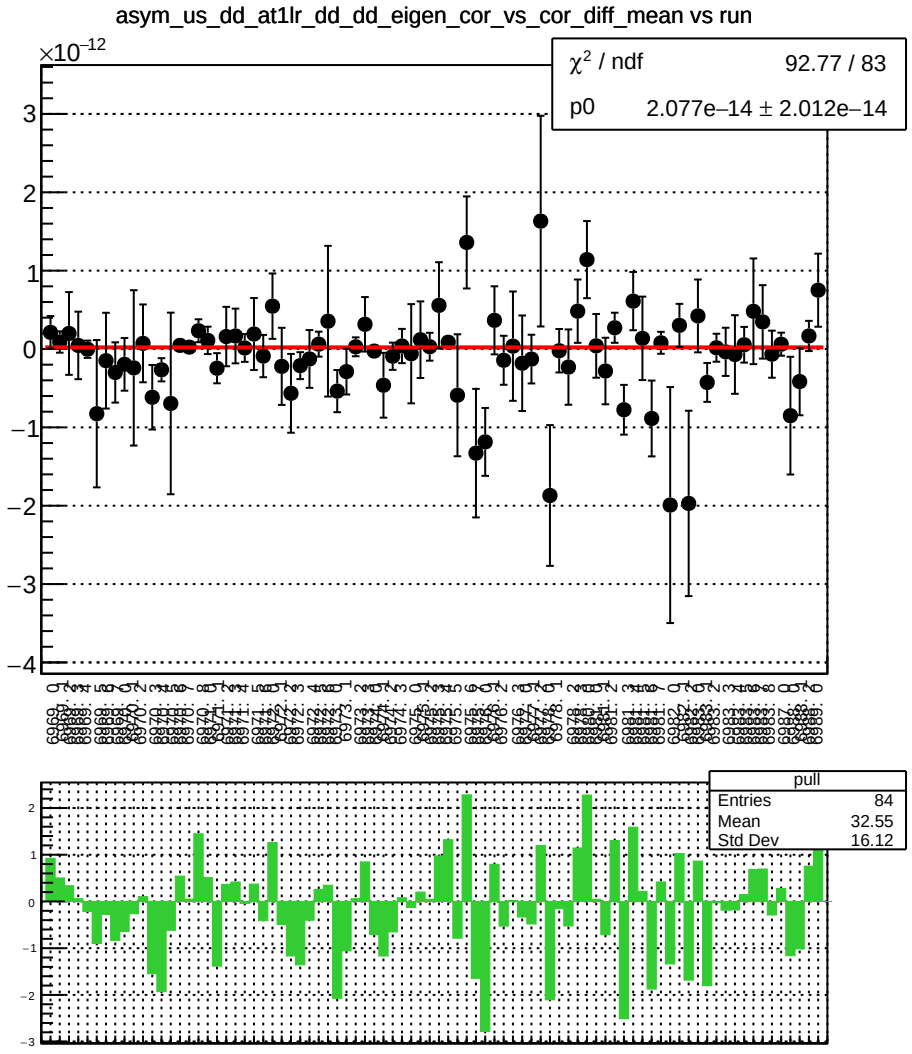

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.52e+04 / 83
p0 0.006782 ± 5.283e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

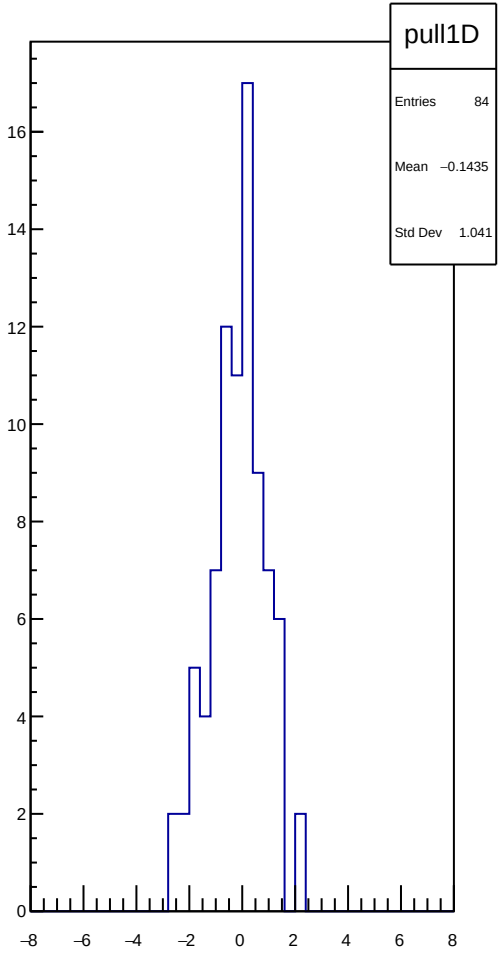

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112 / 83
p0 0.03672 ± 0.04975
pull
Entries 84
Mean 19.41
Std Dev 0
pull1D
Entries 84
Mean −0.04762
Std Dev 1.154

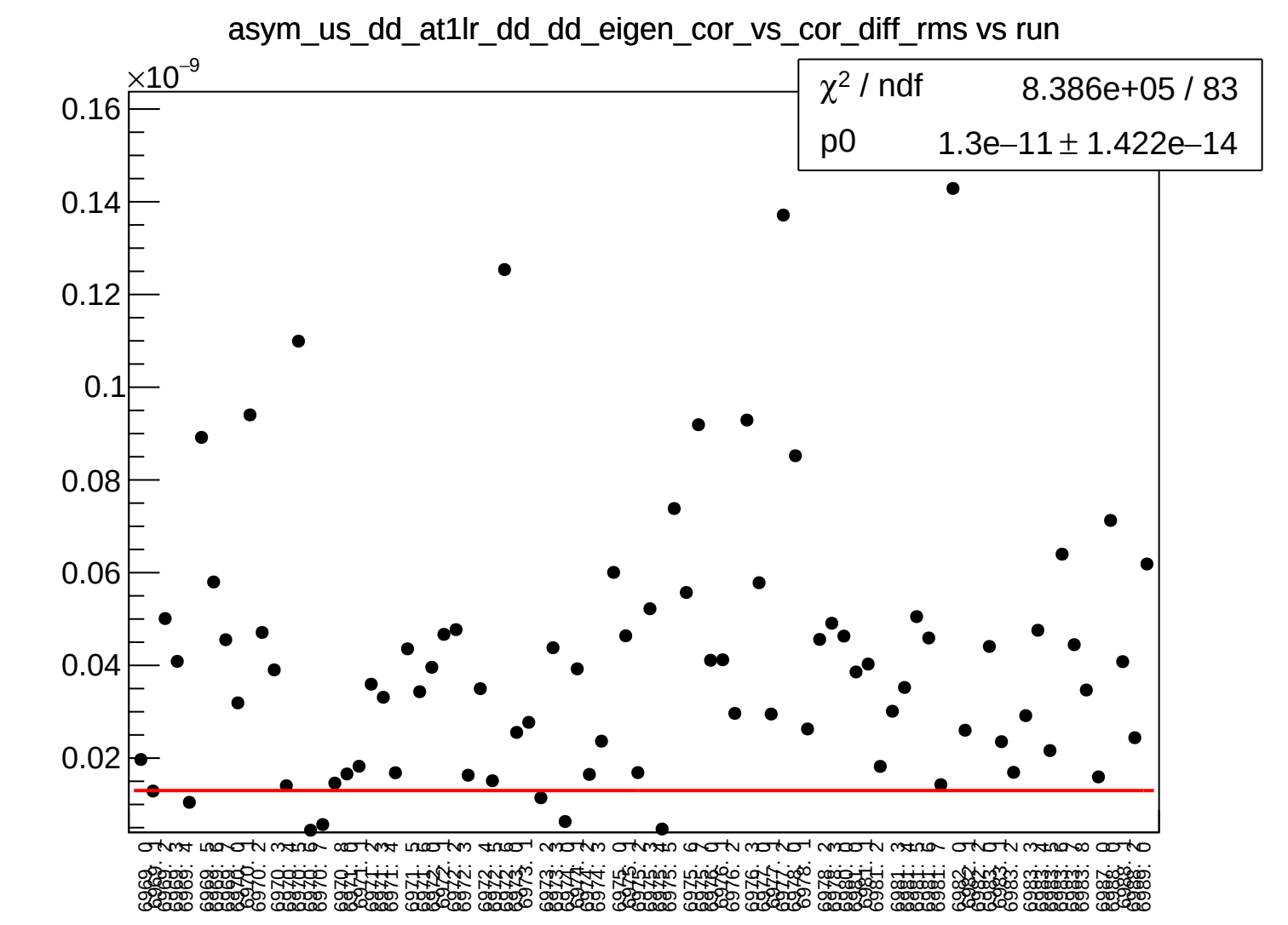

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.891e+05 / 83
p0 42.86 ± 0.03518
120
100
80
60
40
20

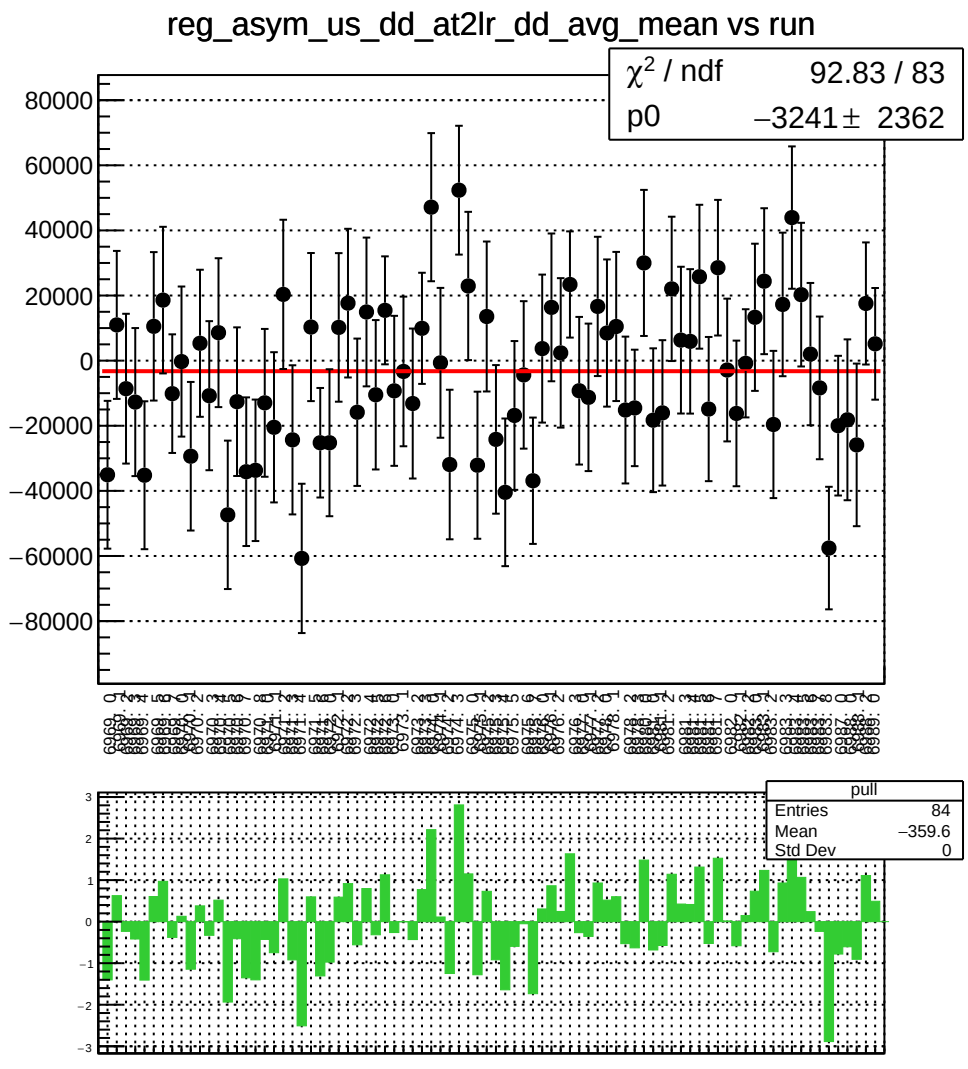

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112 / 83
p0 0.03672 ± 0.04975
pull
Entries 84
Mean 19.41
Std Dev 0
pull1D
Entries 84
Mean −0.04762
Std Dev 1.154

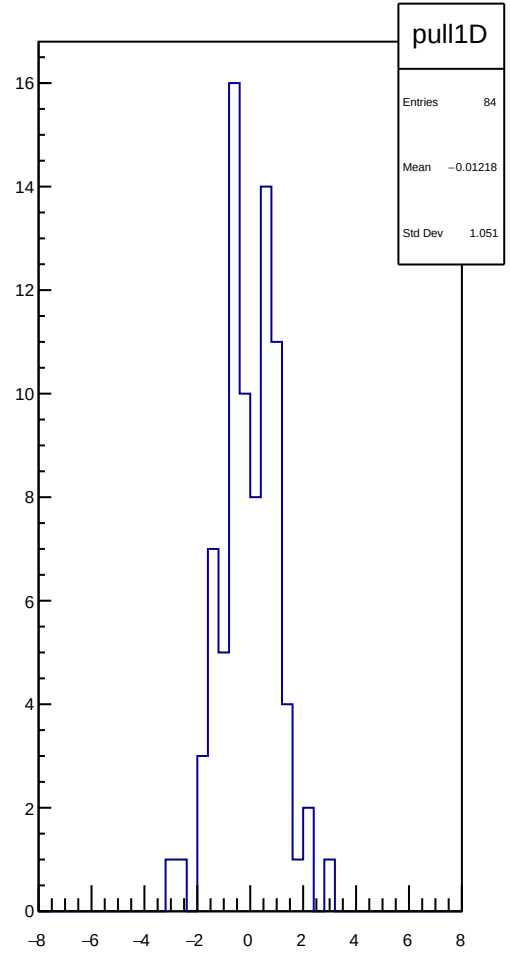

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.891e+05 / 83
p0 42.86 ± 0.03518
120
100
80
60
40
20

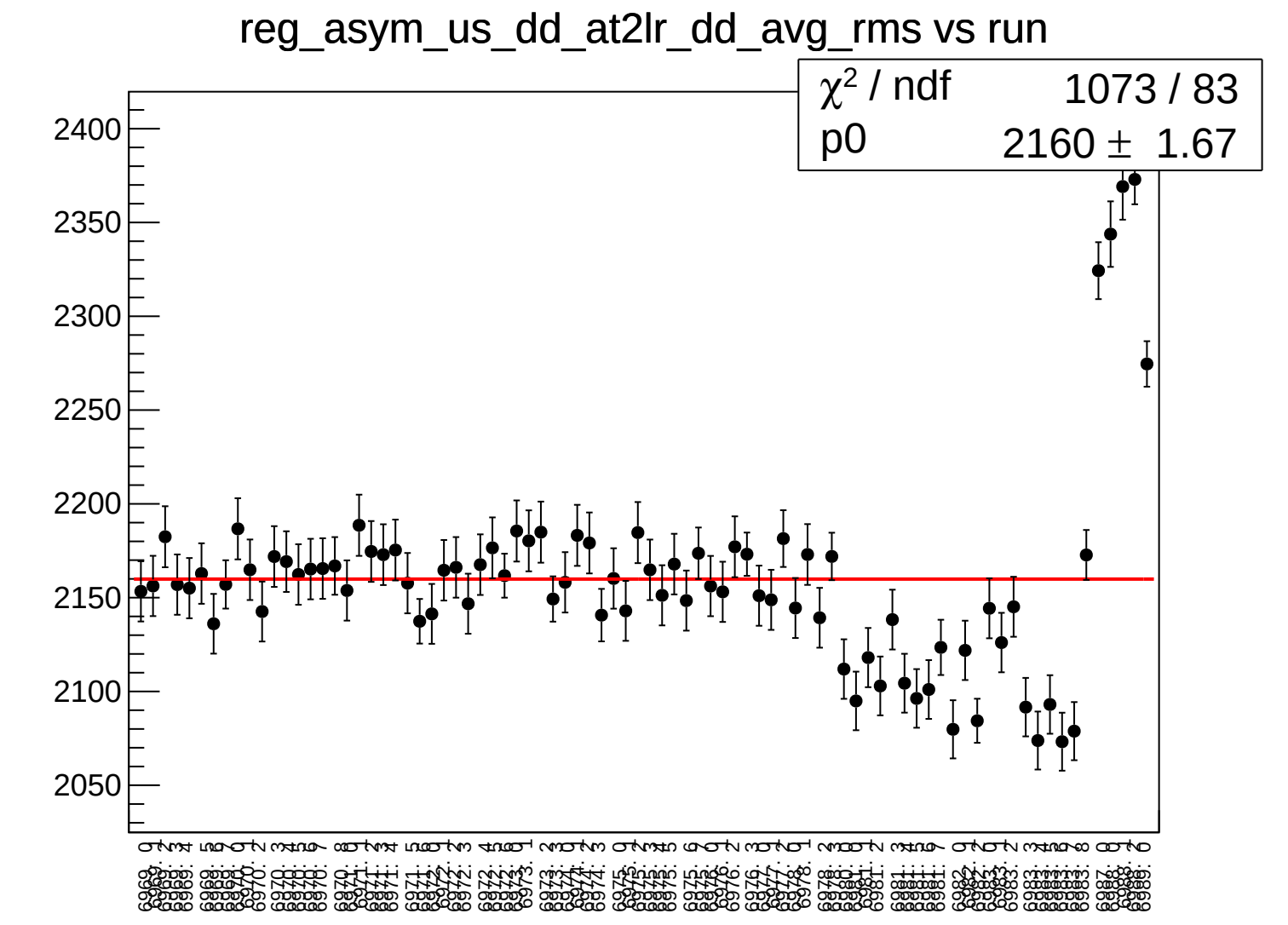

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.77 / 83
p0 2.077e−14 ± 2.012e−14
pull
Entries 84
Mean 32.55
Std Dev 16.12

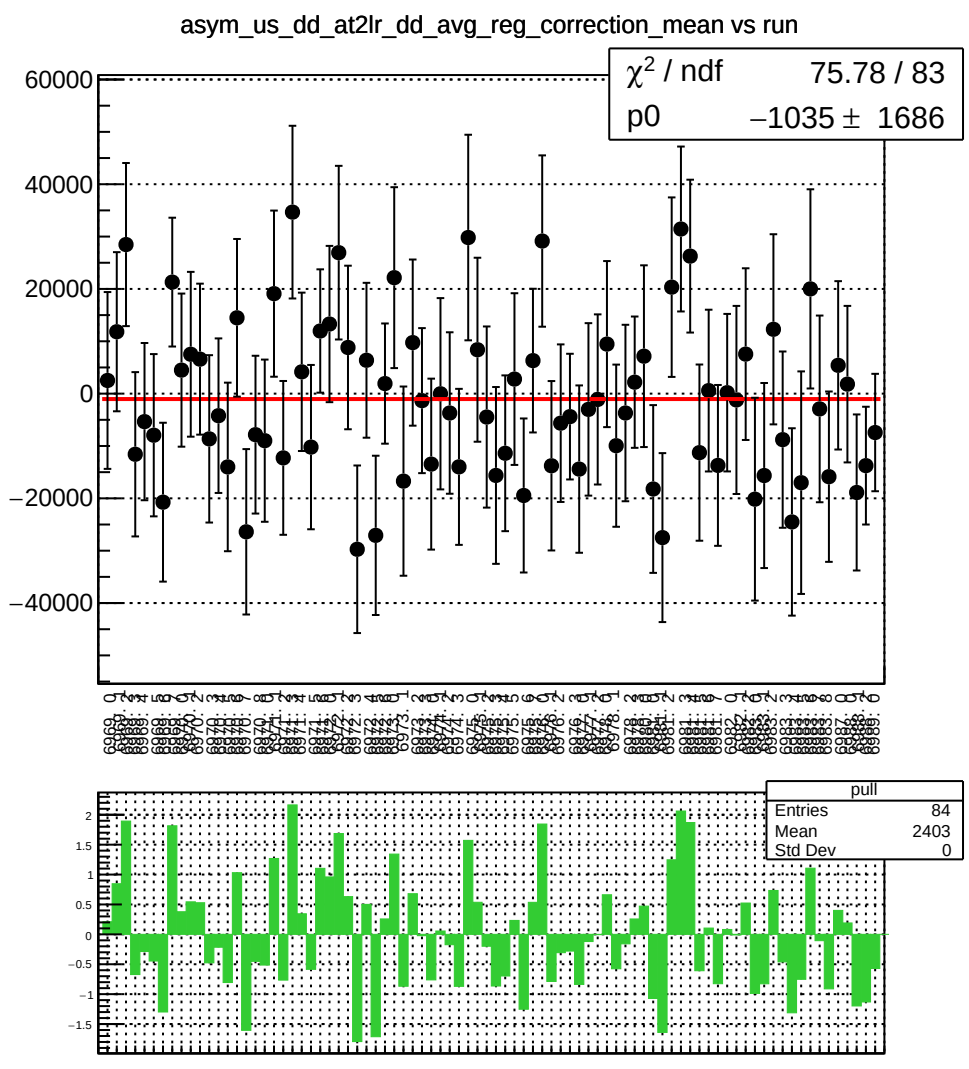

pull1D
Entries 84
Mean −0.1435
Std Dev 1.041

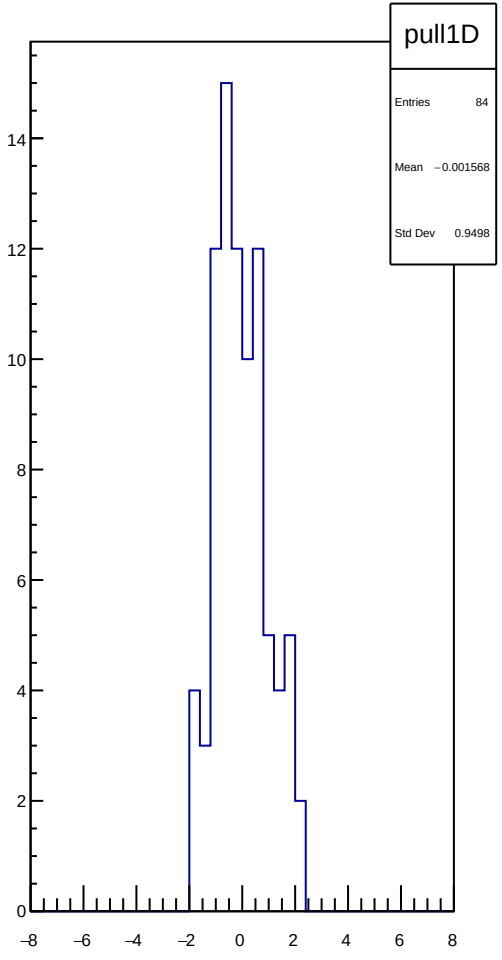

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.386e+05 / 83
p0 1.3e−11 ± 1.422e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

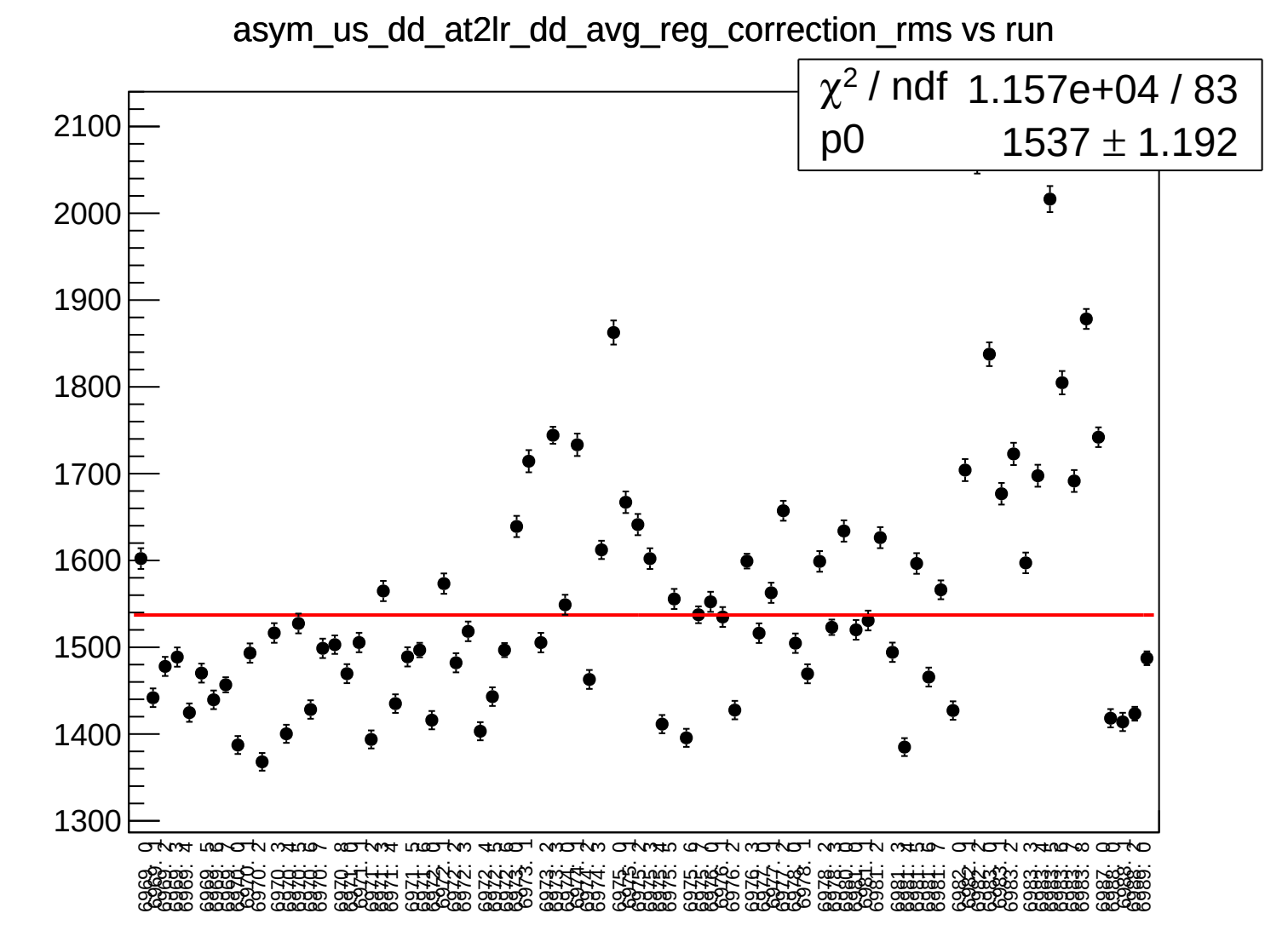

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 92.83 / 83
p0 −3241 ± 2362
pull
Entries 84
Mean −359.6
Std Dev 0

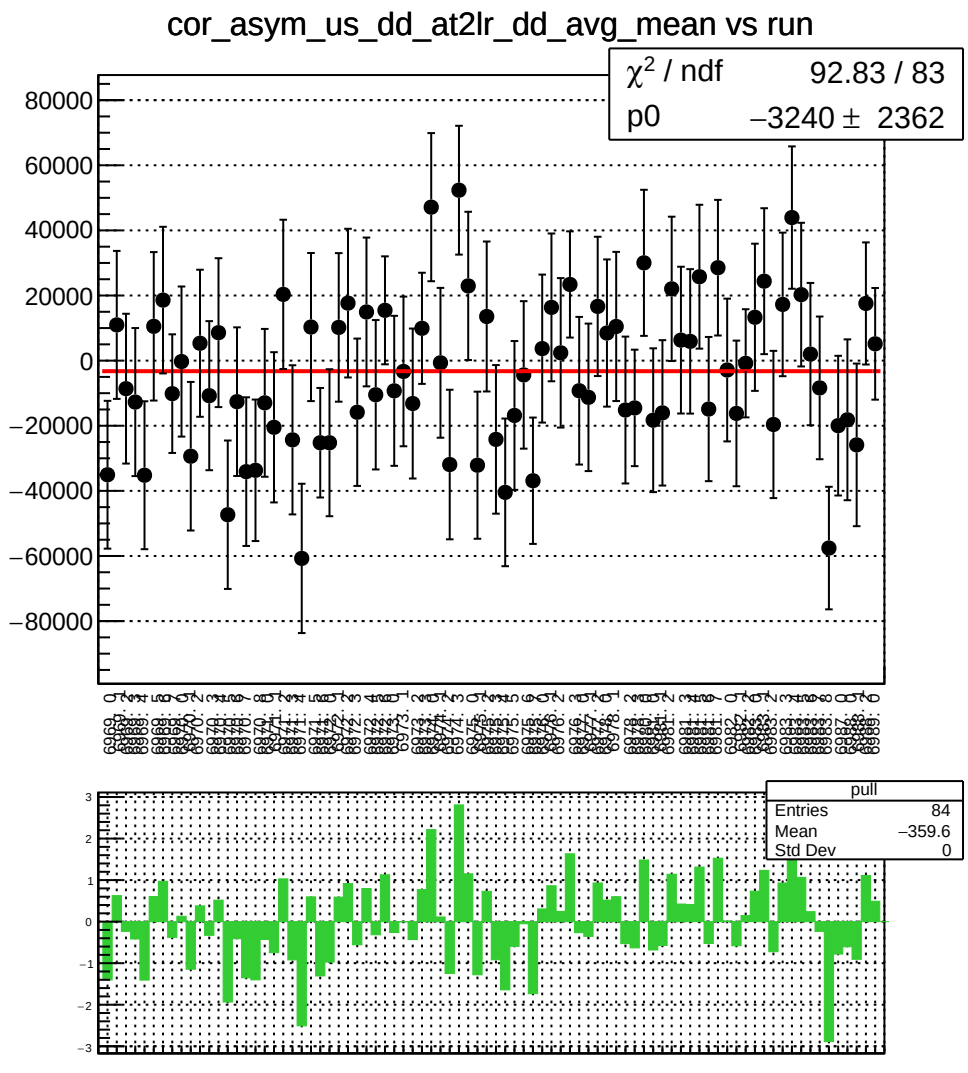

pull1D
Entries 84
Mean −0.01218
Std Dev 1.051

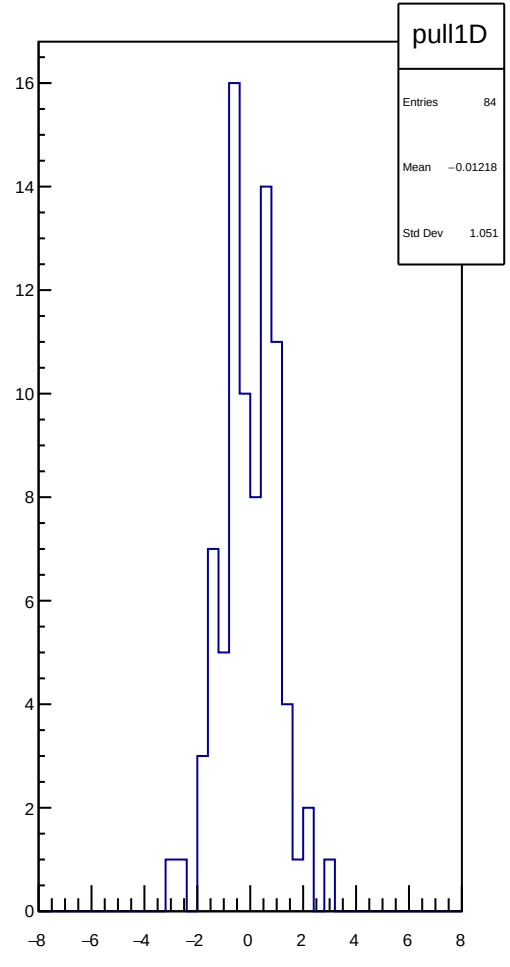

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1073 / 83
p0 2160 ± 1.67
2400
2350
2300
2250
2200
2150
2100
2050

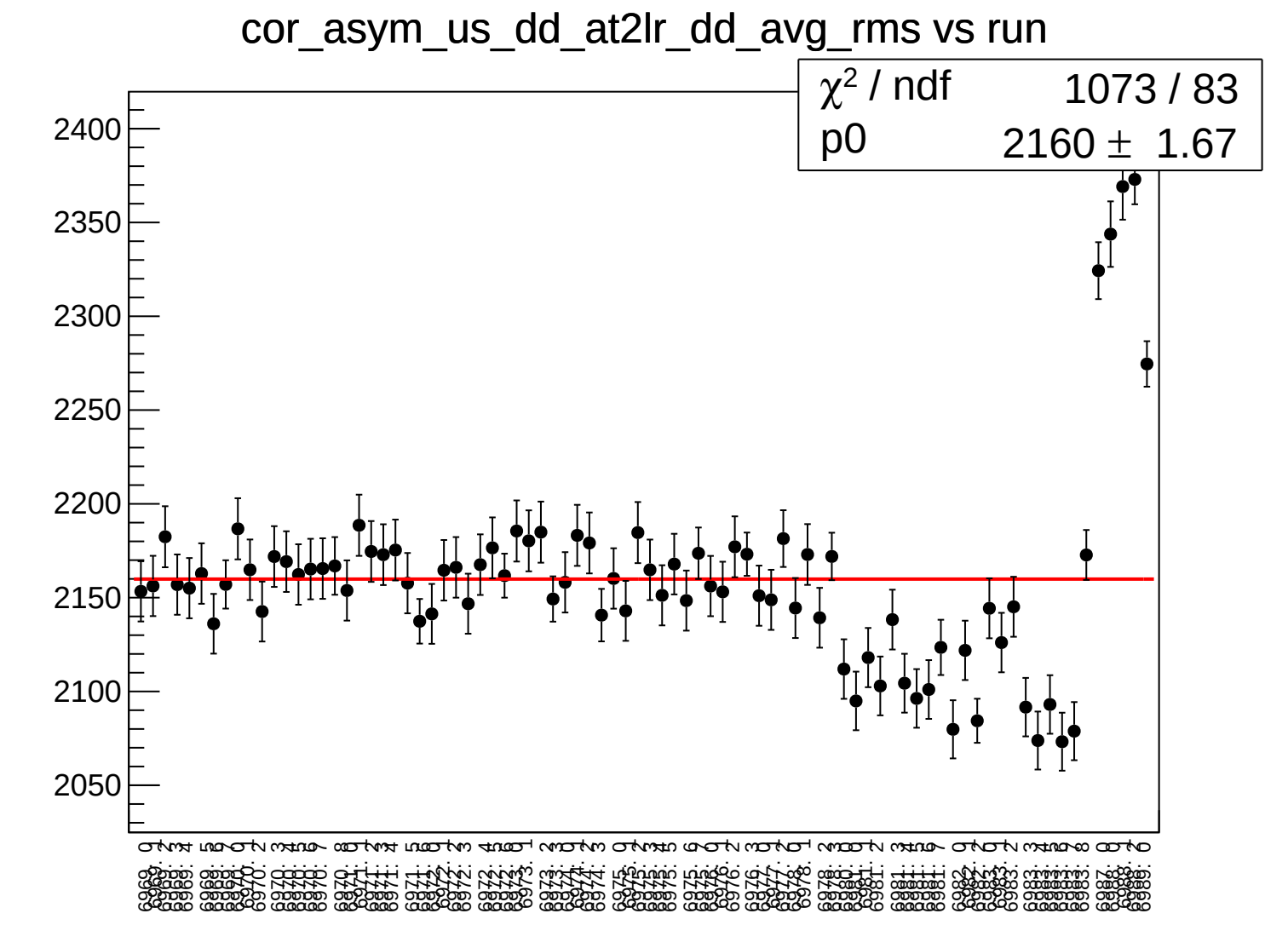

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 75.78 / 83
p0 −1035 ± 1686
pull
Entries 84
Mean 2403
Std Dev 0

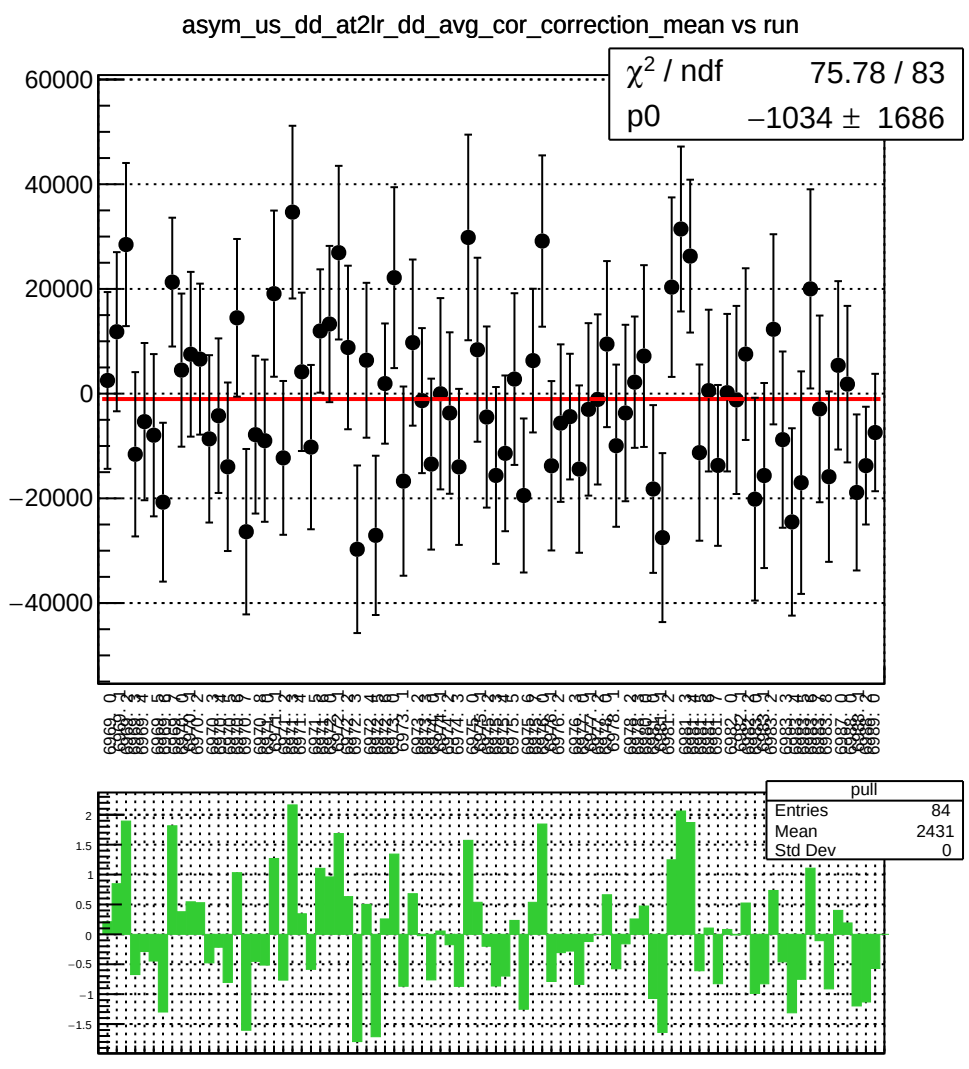

pull1D
Entries 84
Mean −0.001568
Std Dev 0.9498

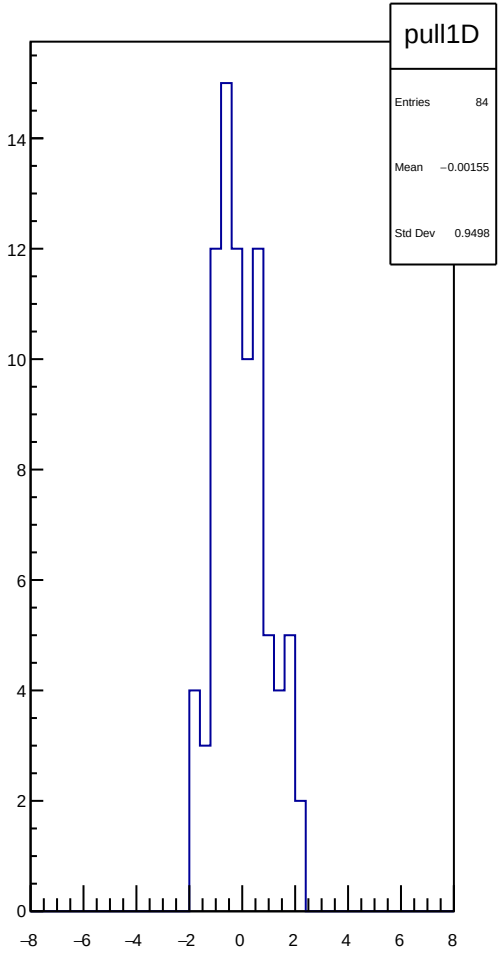

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.157e+04 / 83
p0 1537 ± 1.192
2100
2000
1900
1800
1700
1600
1500
1400
1300

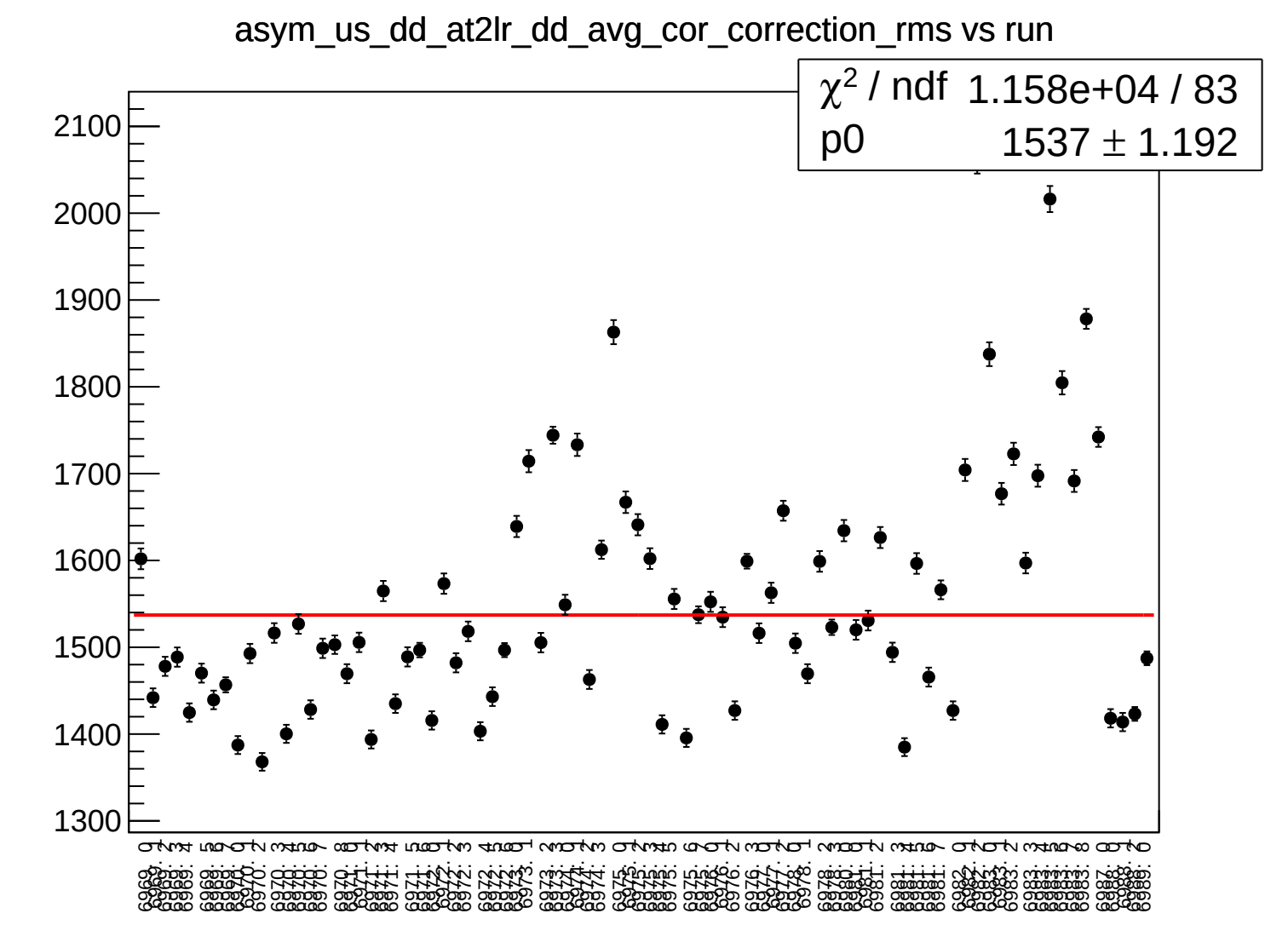

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 92.83 / 83
p0 −3240 ± 2362
pull
Entries 84
Mean −359.6
Std Dev 0

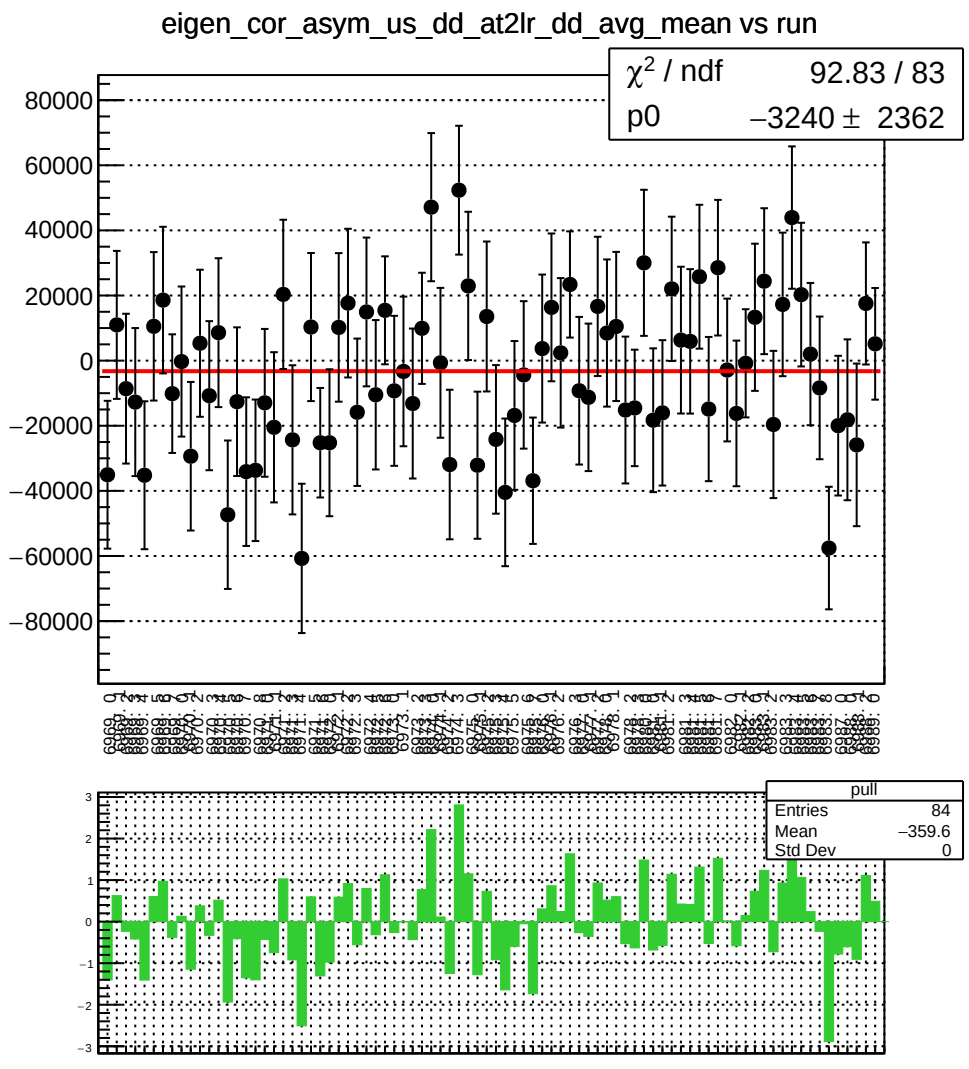

pull1D
Entries 84
Mean −0.01218
Std Dev 1.051

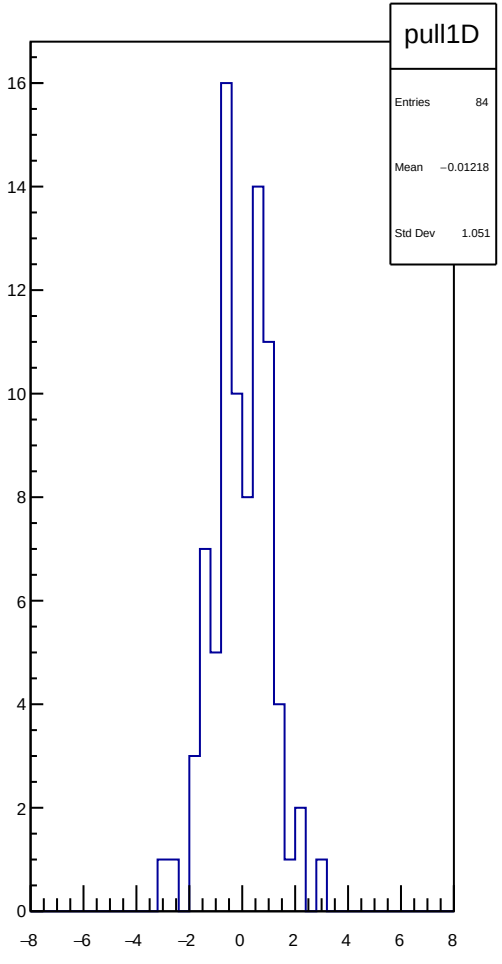

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1073 / 83
p0 2160 ± 1.67
2400
2350
2300
2250
2200
2150
2100
2050

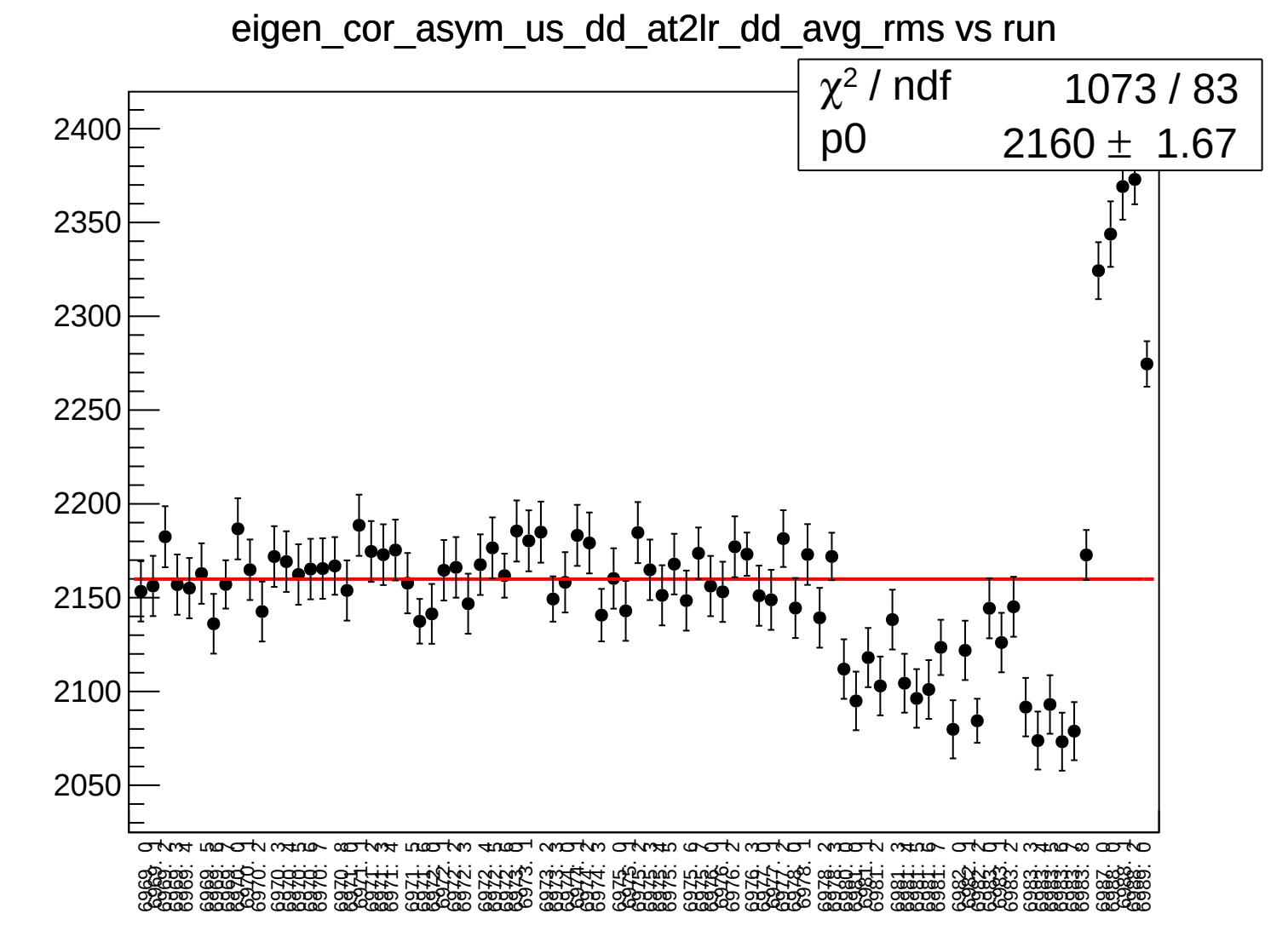

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 75.78 / 83
p0 −1034 ± 1686
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 2431
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

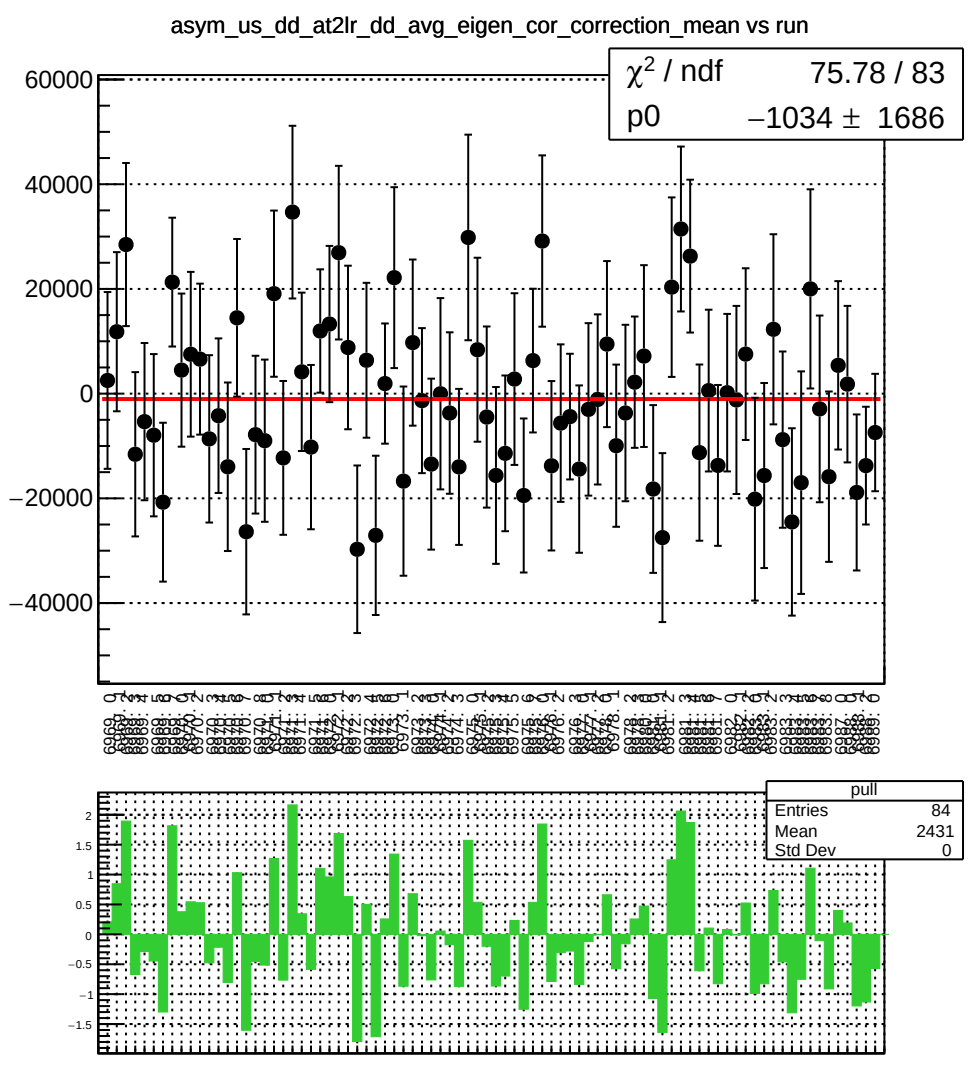

pull1D
Entries 84
Mean −0.00155
Std Dev 0.9498
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

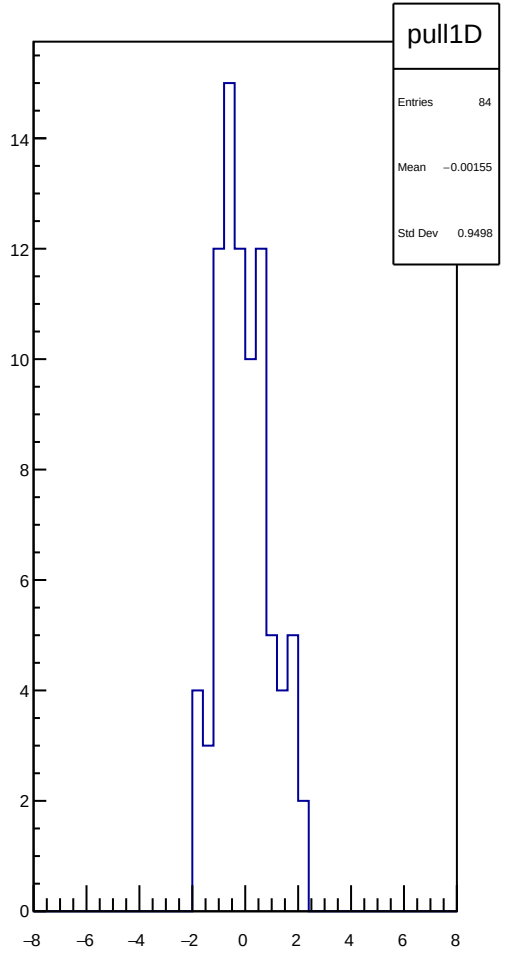

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.158e+04 / 83
p0 1537 ± 1.192
2100
2000
1900
1800
1700
1600
1500
1400
1300

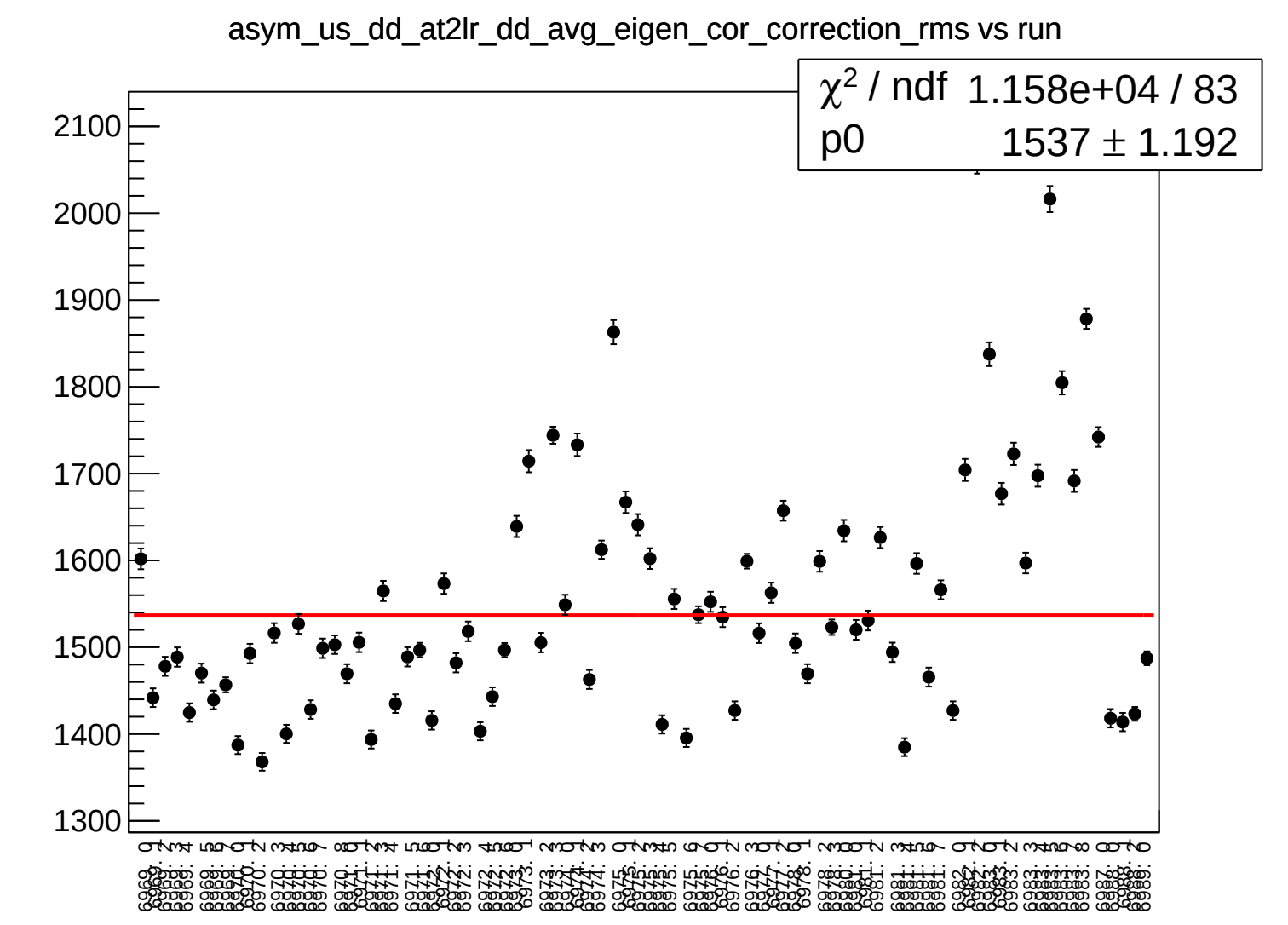

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 92.83 / 83
p0 −3240 ± 2362
pull
Entries 84
Mean −359.6
Std Dev 0

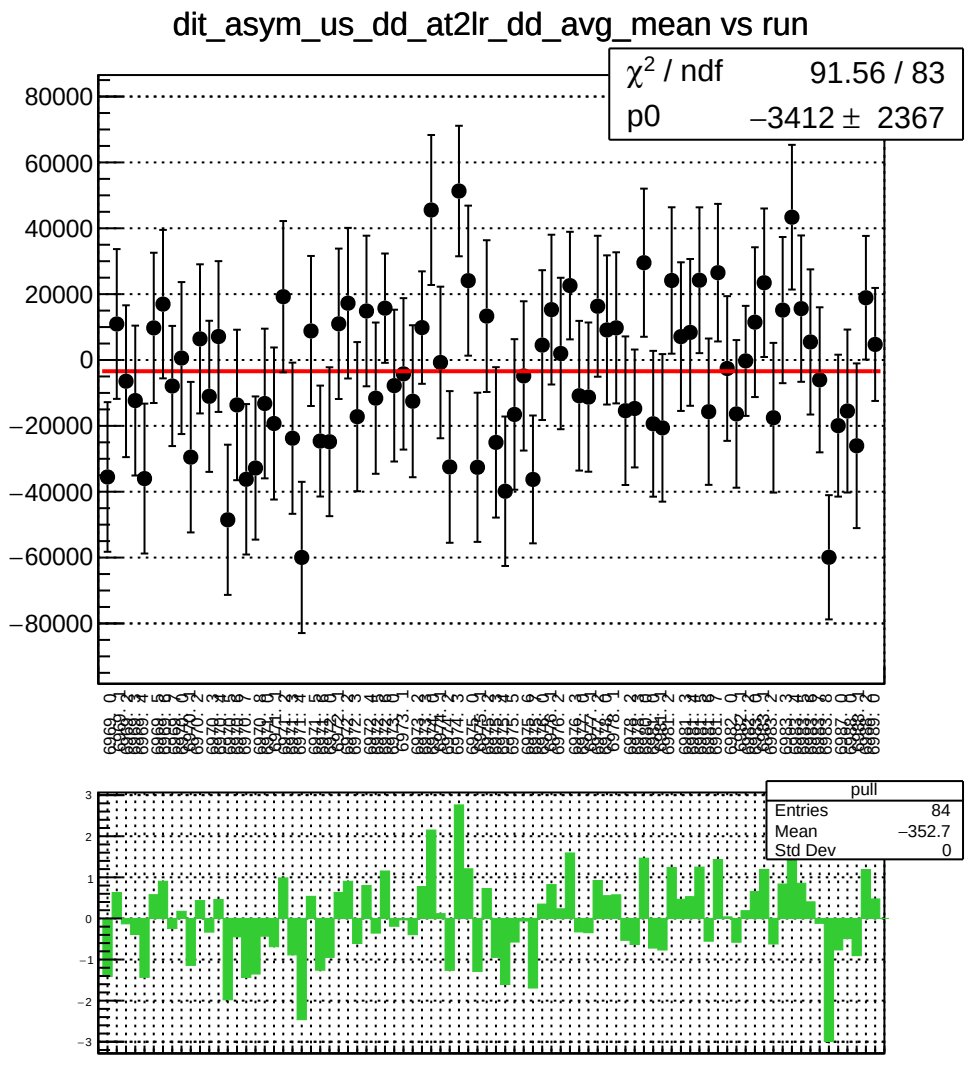

pull1D
Entries 84
Mean −0.01218
Std Dev 1.051

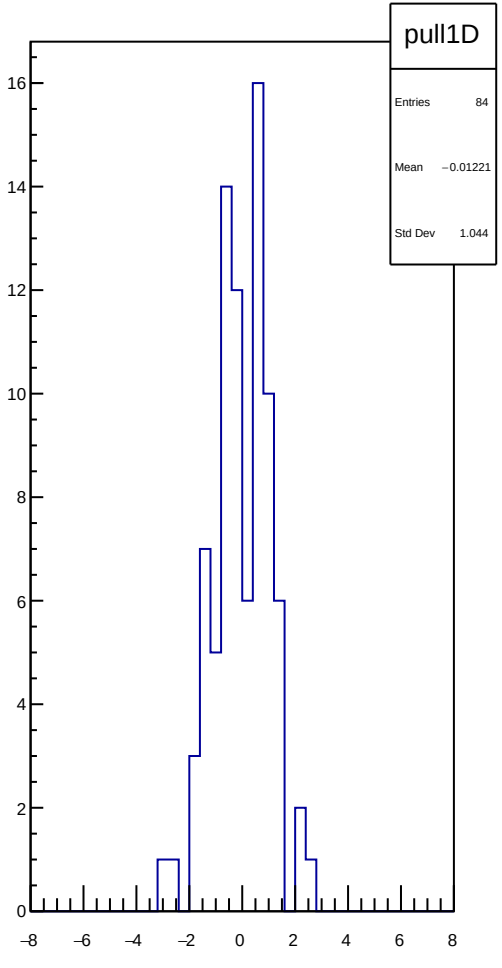

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1073 / 83
p0 2160 ± 1.67
2400
2350
2300
2250
2200
2150
2100
2050

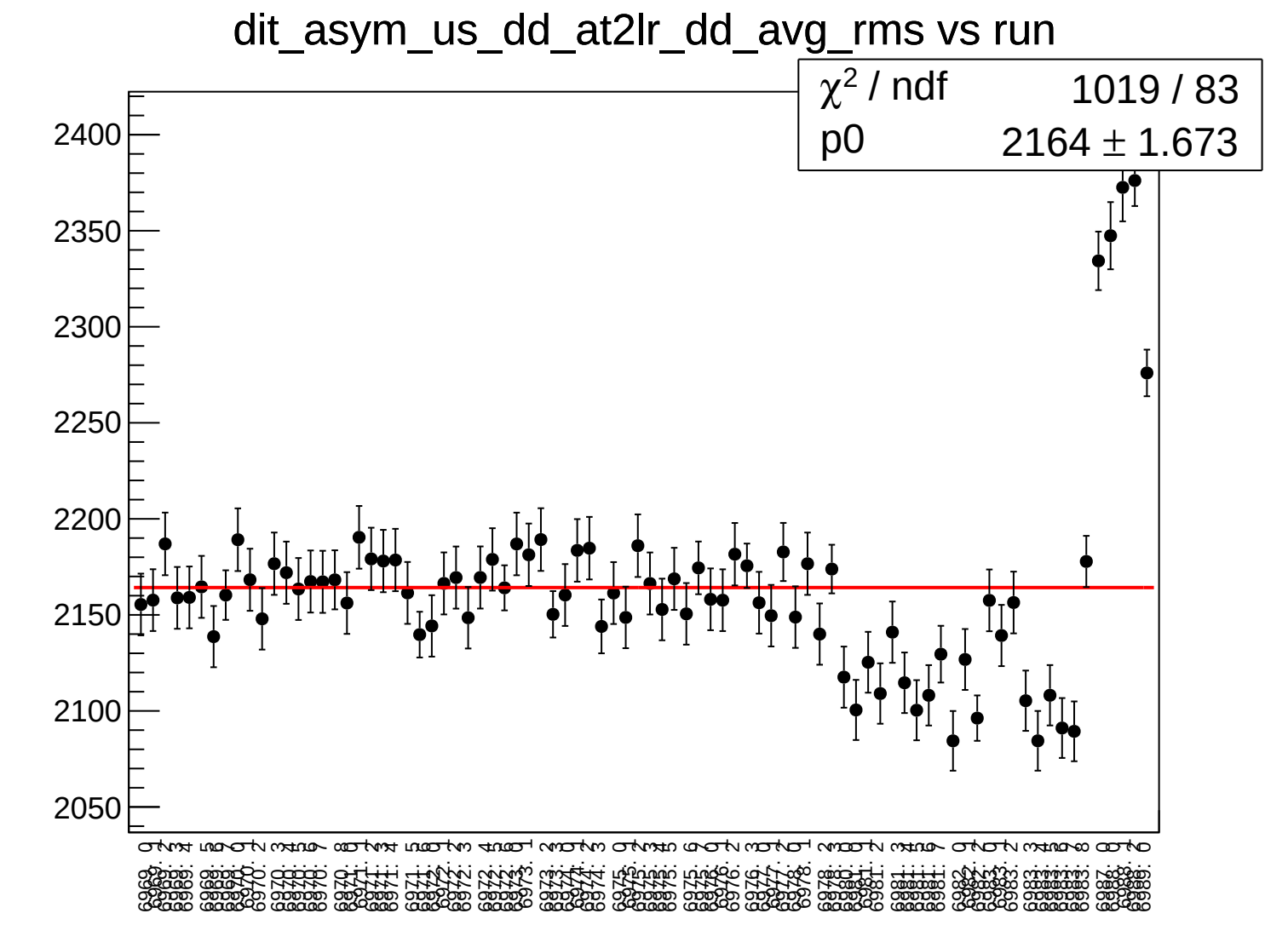

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.78 / 83
p0 −1034 ± 1686
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 2431
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

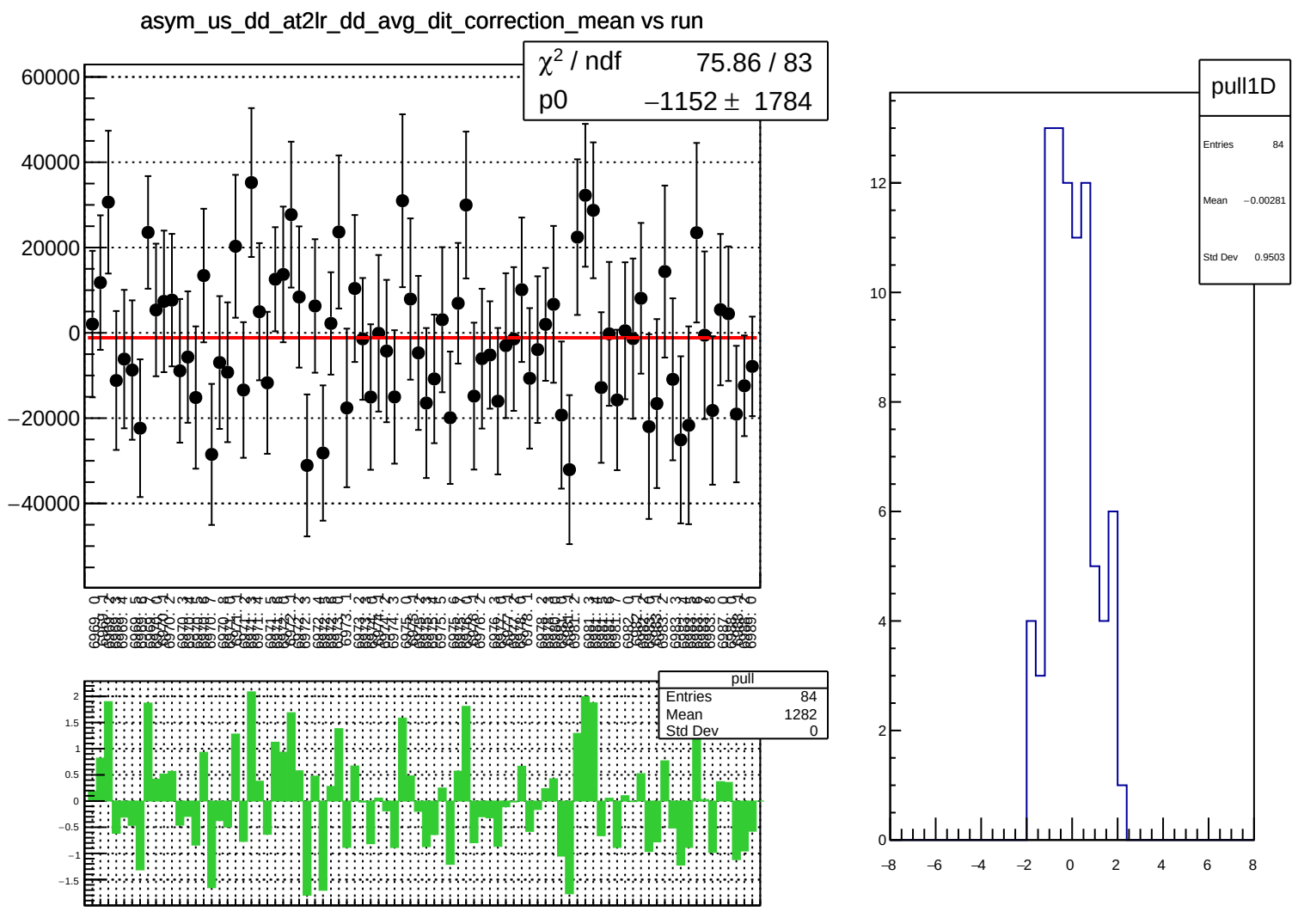

pull1D
Entries 84
Mean −0.00155
Std Dev 0.9498
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

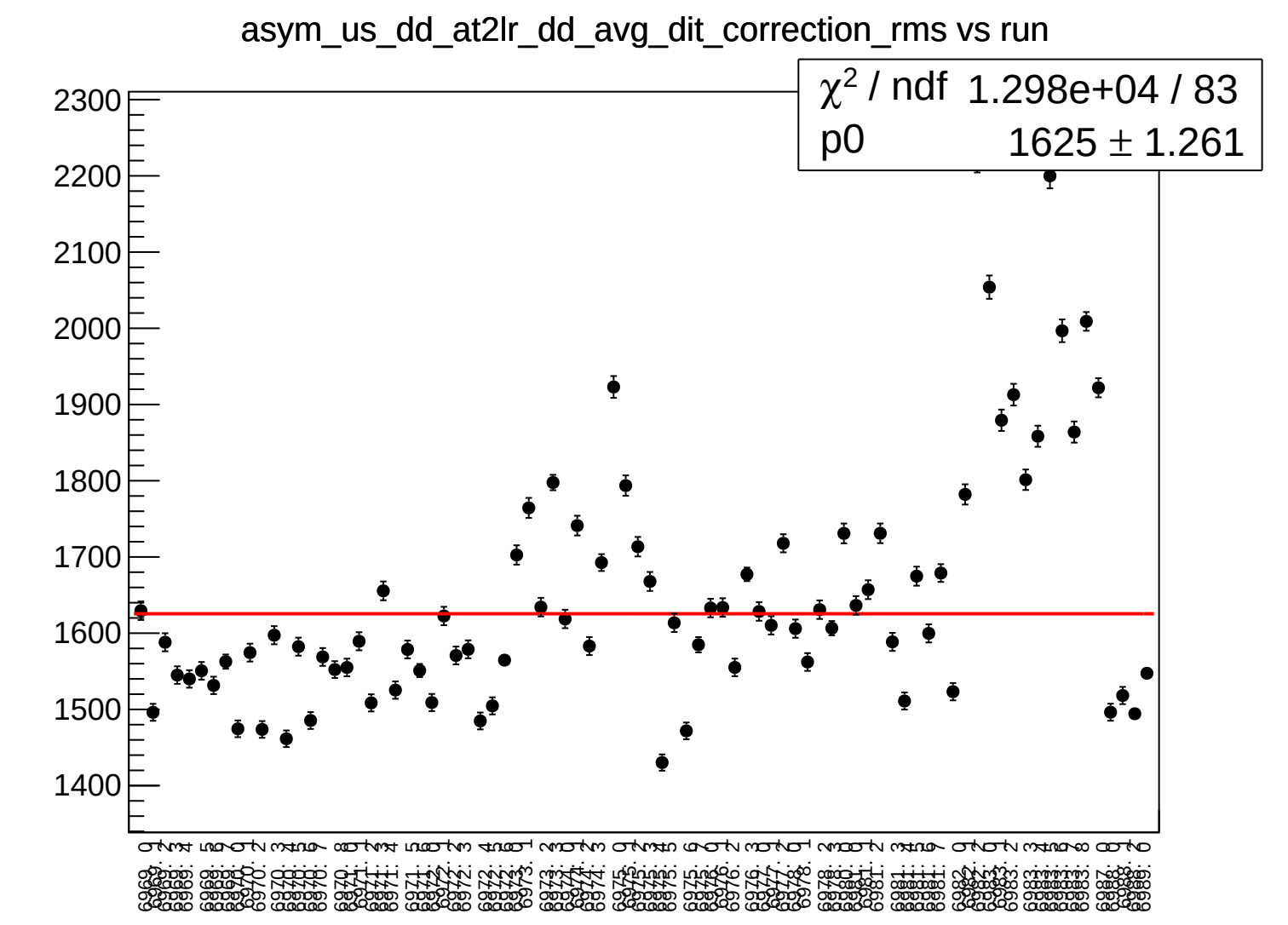

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.158e+04 / 83
p0 1537 ± 1.192
2100
2000
1900
1800
1700
1600
1500
1400
1300

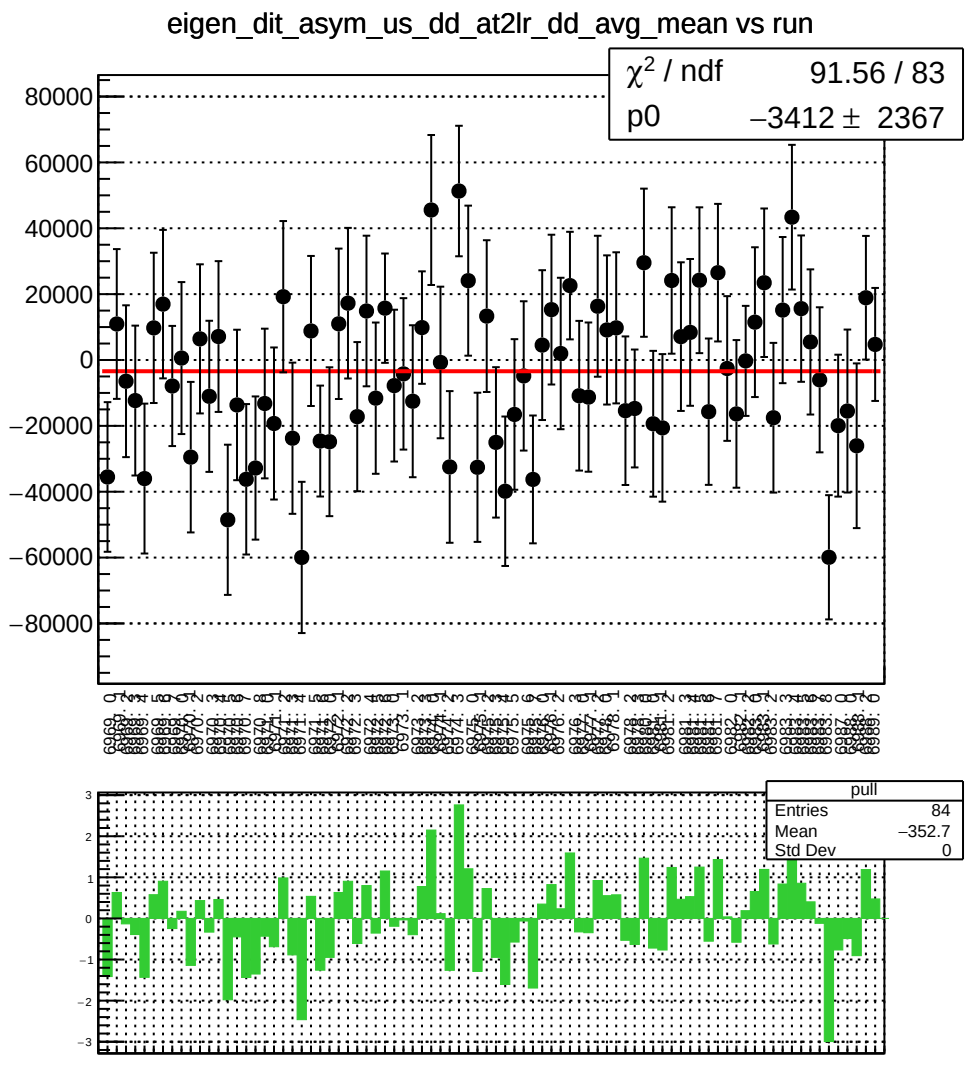

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 91.56 / 83
p0 −3412 ± 2367
pull
Entries 84
Mean −352.7
Std Dev 0

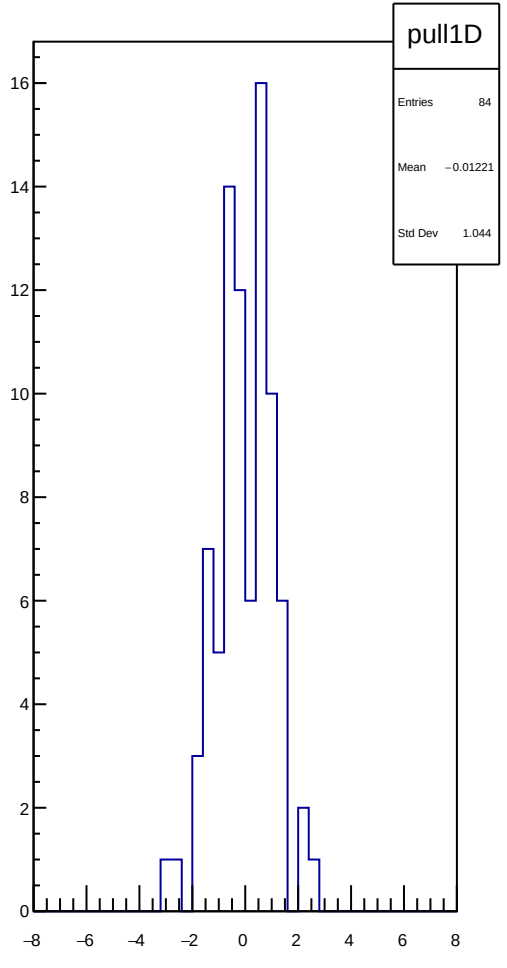

pull1D
Entries 84
Mean −0.01221
Std Dev 1.044

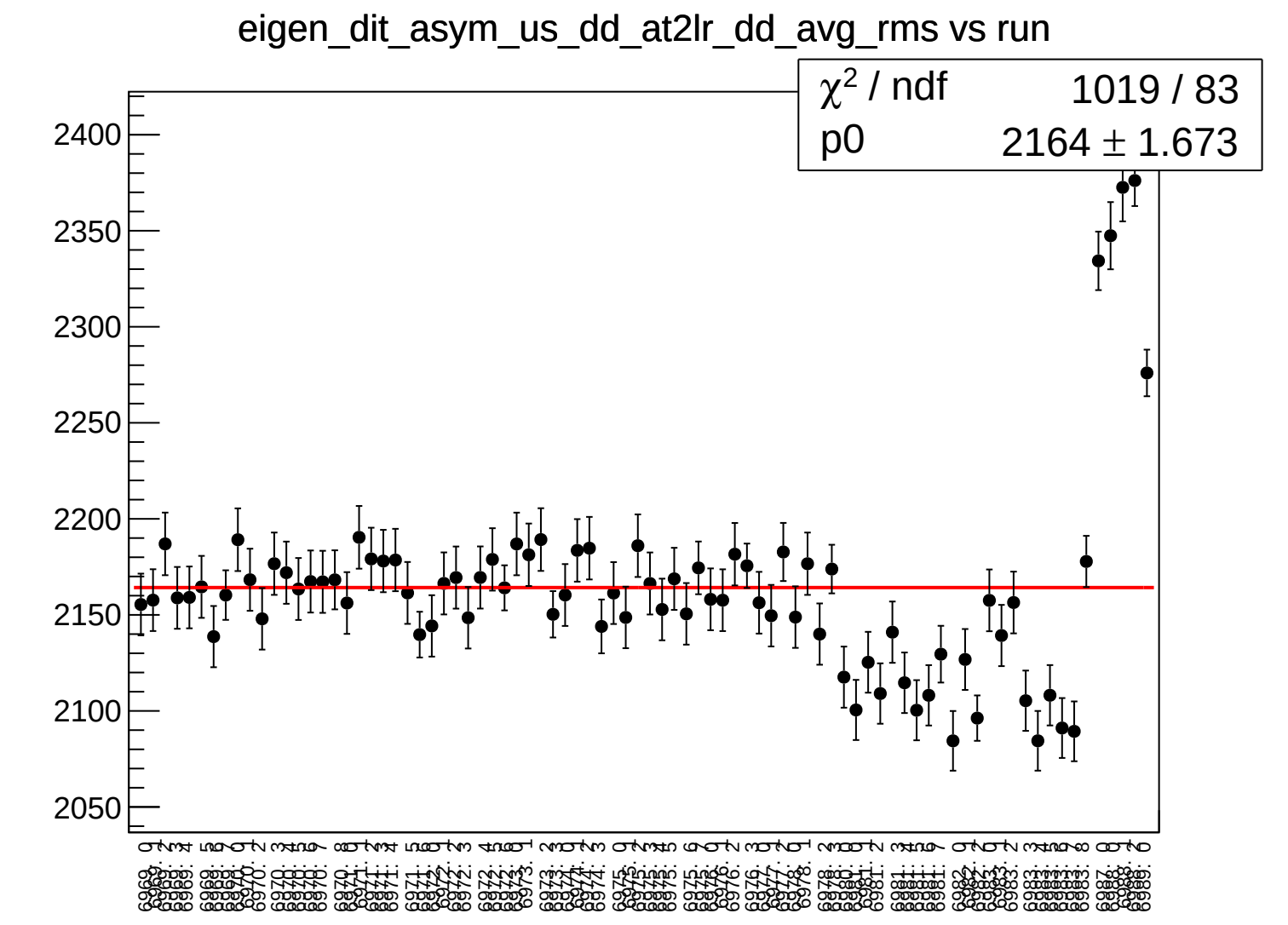

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1019 / 83
p0 2164 ± 1.673
2400
2350
2300
2250
2200
2150
2100
2050

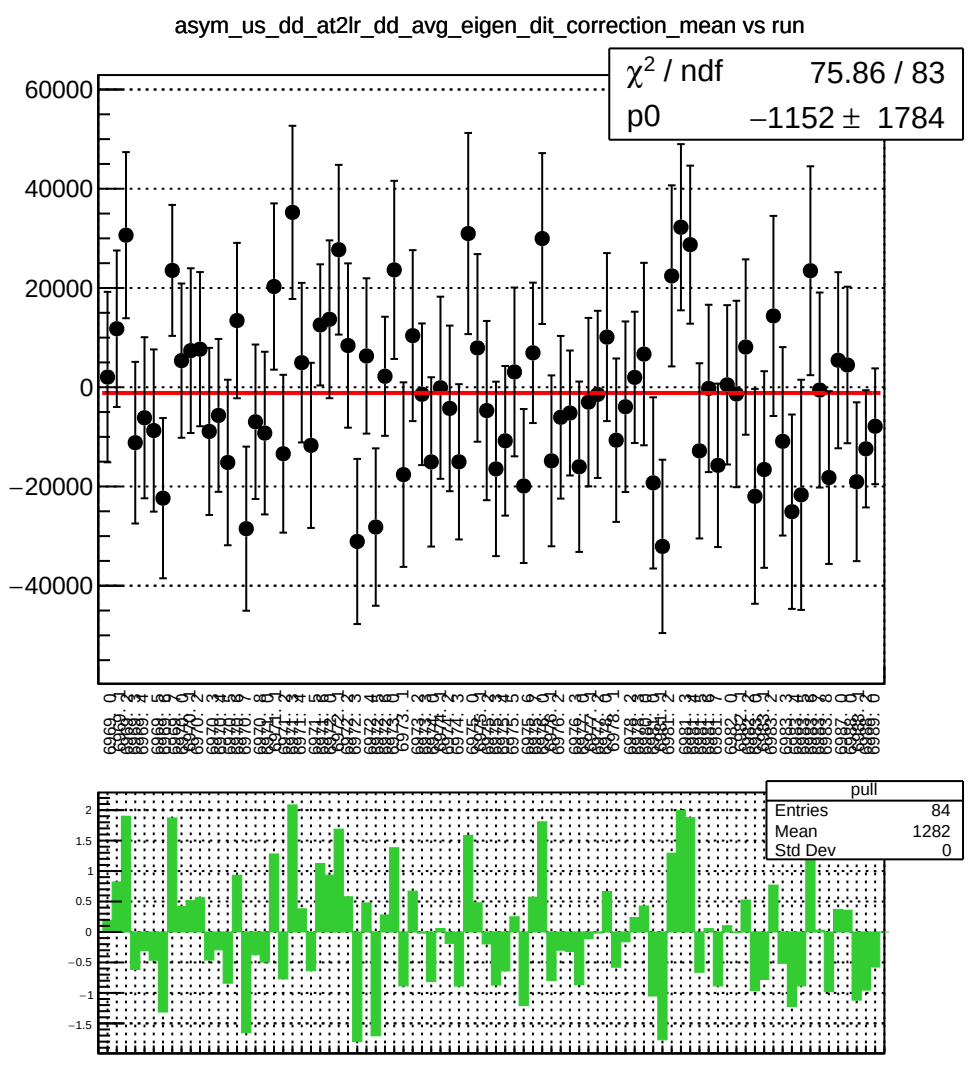

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 75.86 / 83
p0 −1152 ± 1784
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 1282
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.00281
Std Dev 0.9503
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

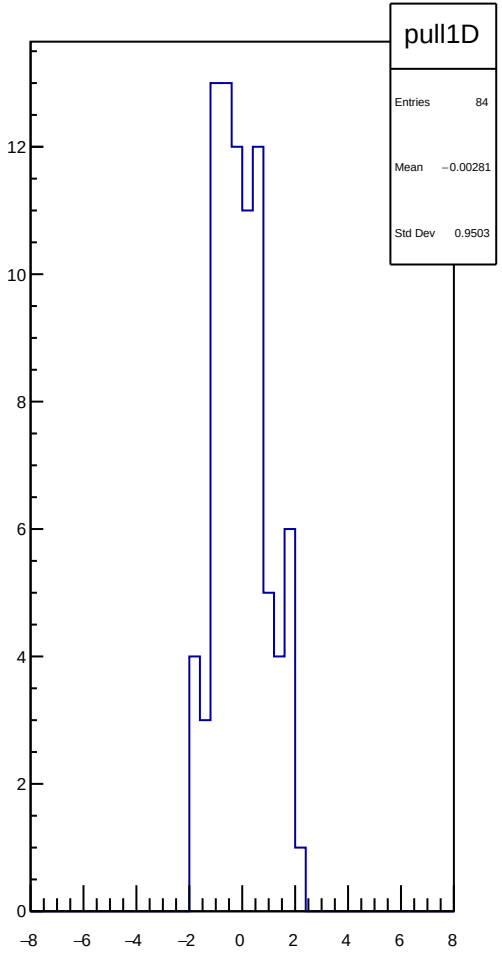

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.298e+04 / 83
p0 1625 ± 1.261
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

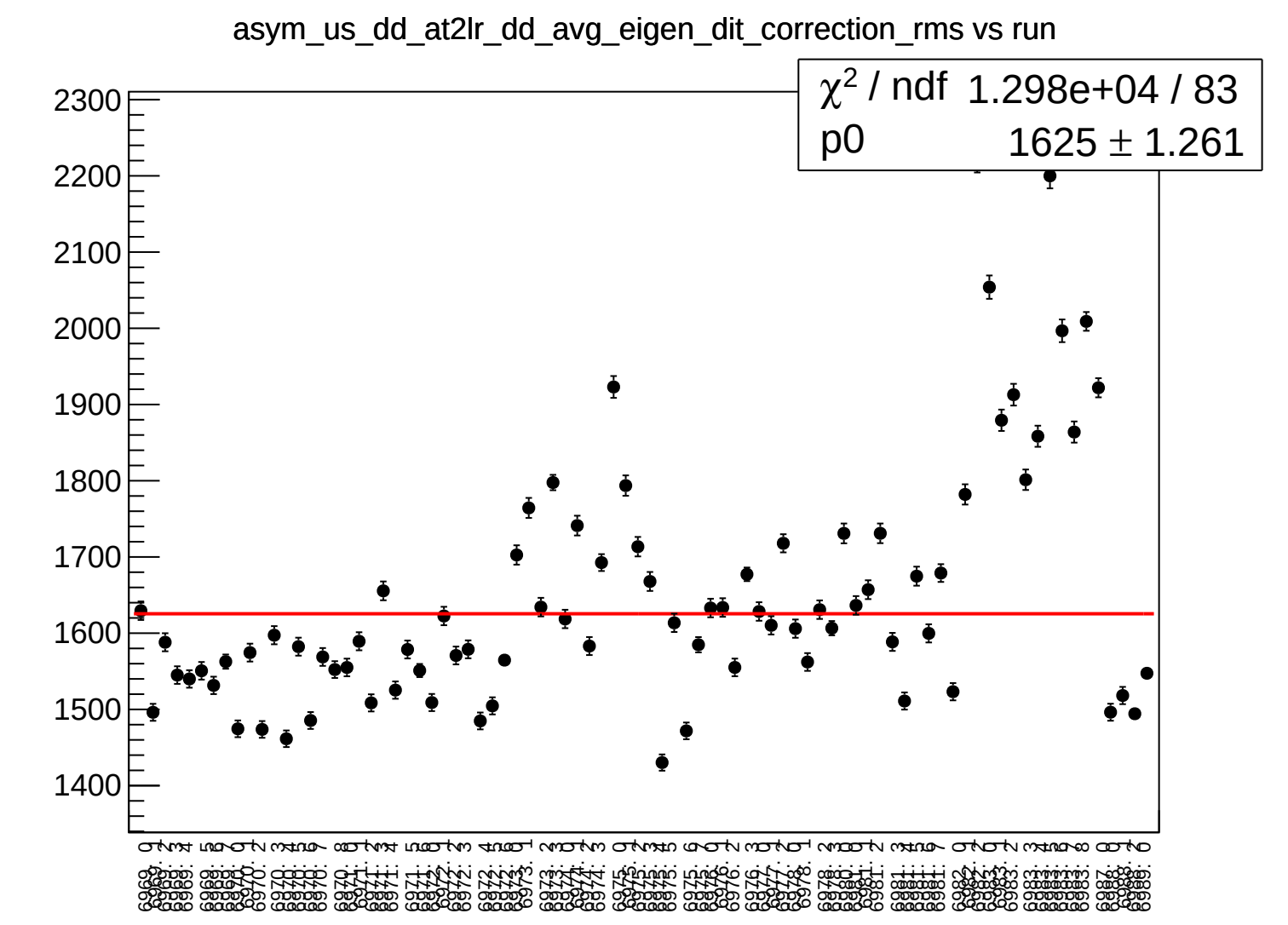

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 91.56 / 83
p0 −3412 ± 2367
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −352.7
Std Dev 0
3
2
1
0
−1
−2
−3

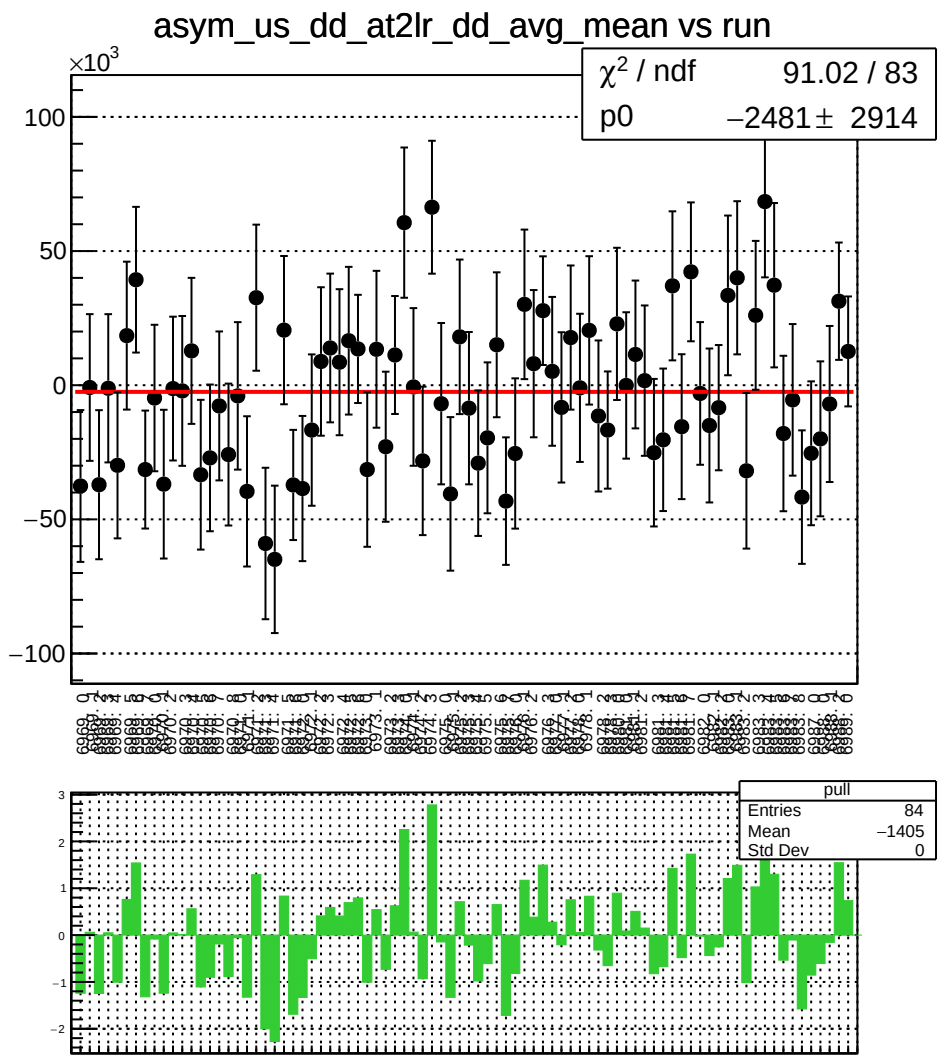

pull1D
Entries 84
Mean −0.01221
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

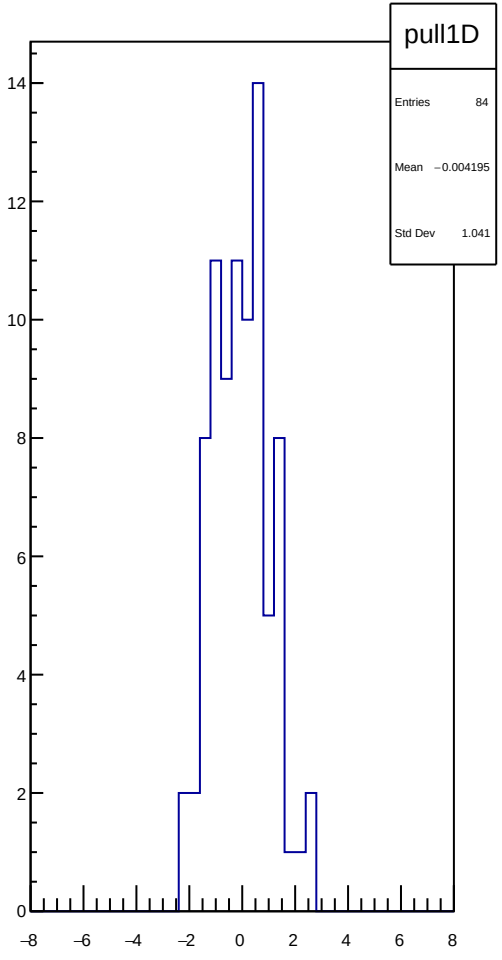

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1019 / 83
p0 2164 ± 1.673
2400
2350
2300
2250
2200
2150
2100
2050

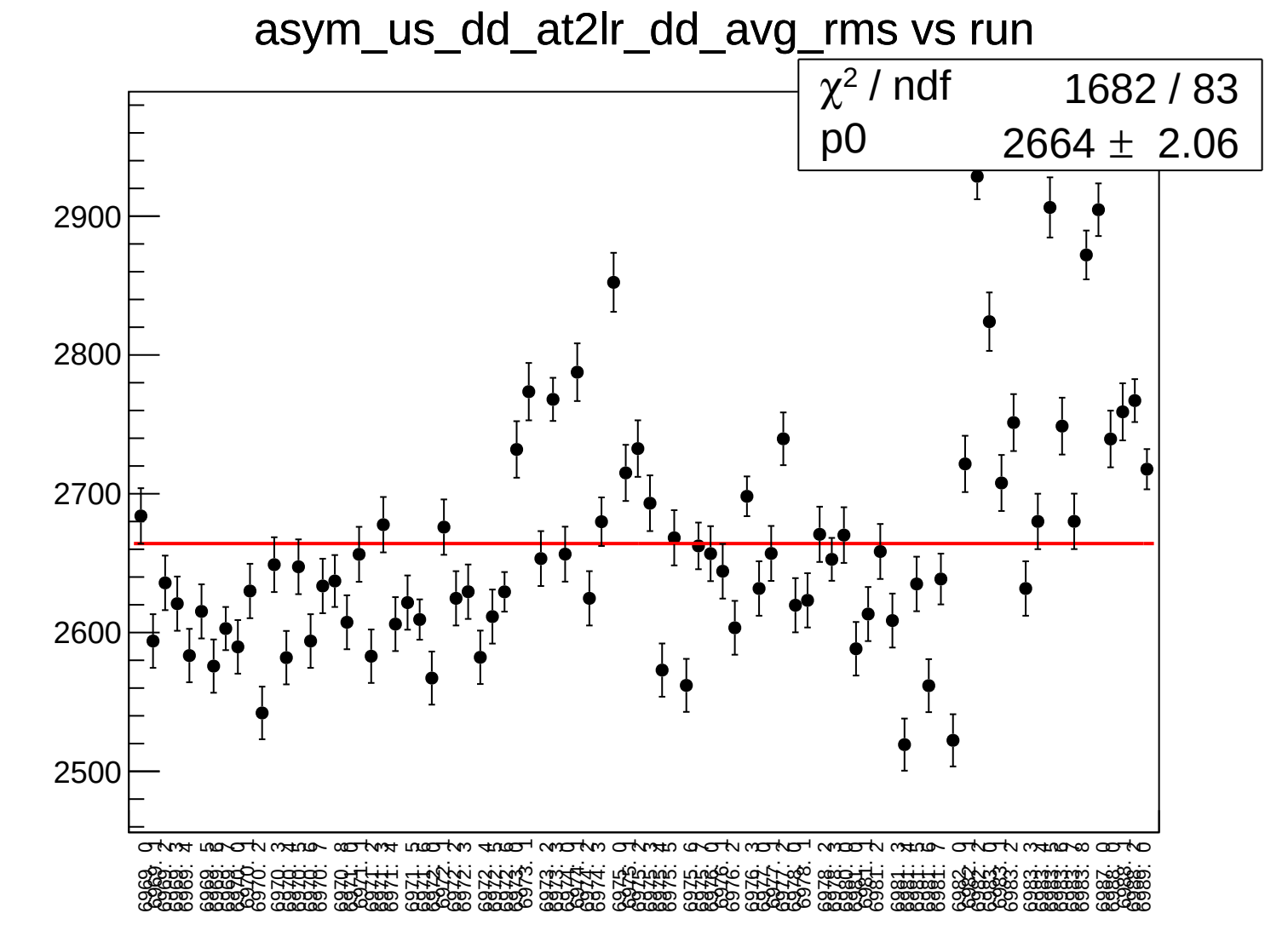

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.86 / 83
p0 −1152 ± 1784
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 1282
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

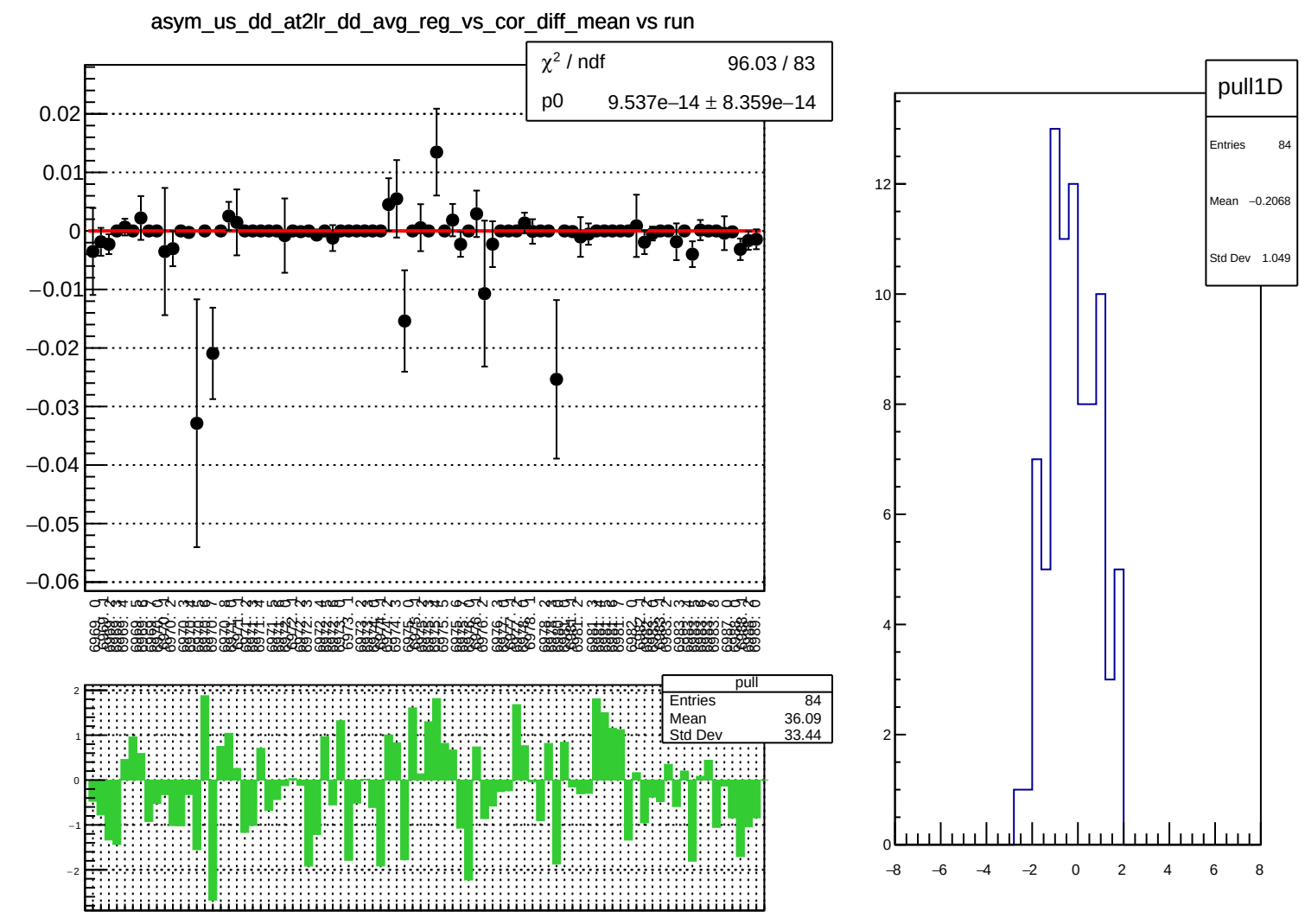

pull1D
Entries 84
Mean −0.00281
Std Dev 0.9503
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

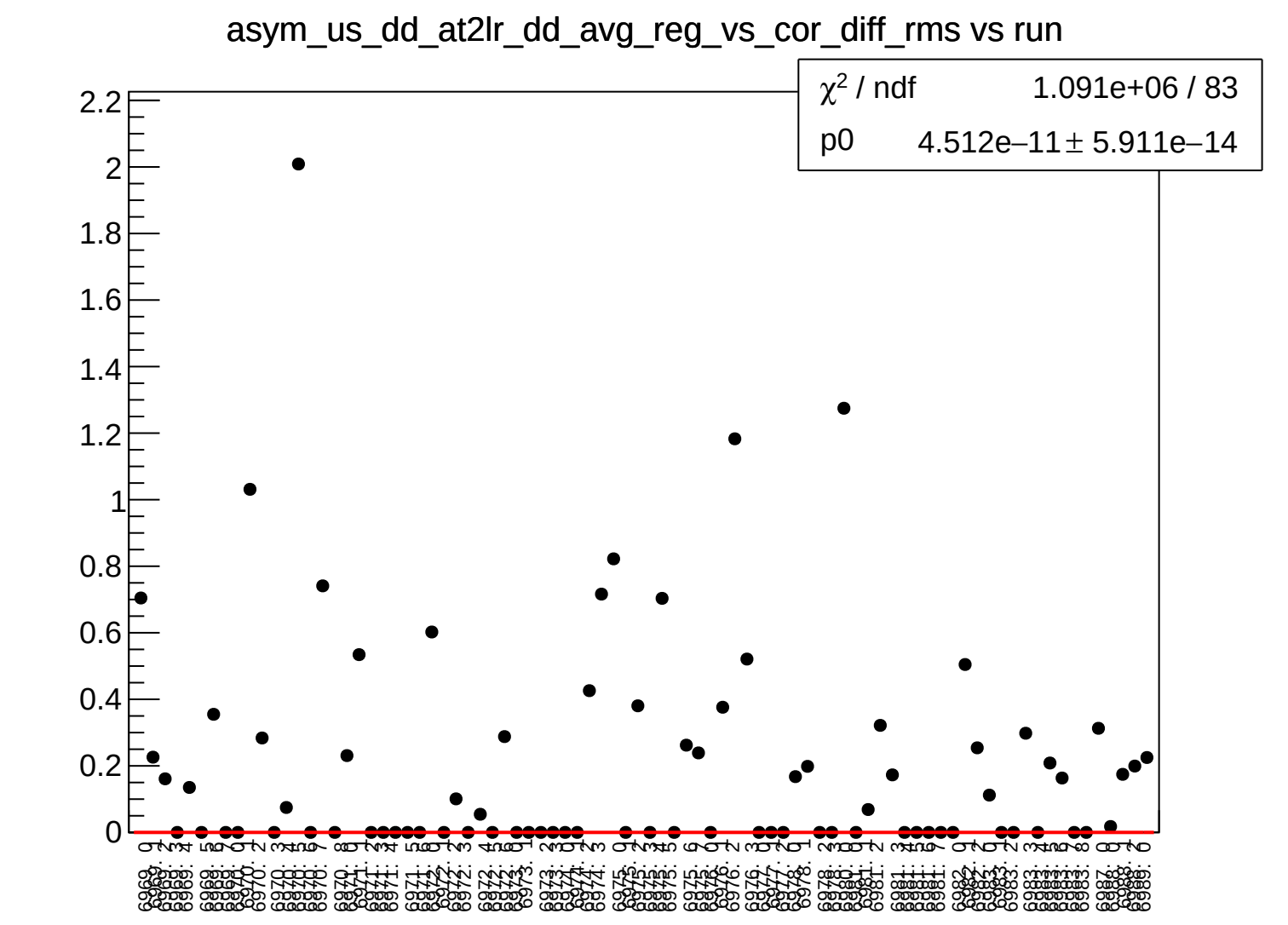

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.298e+04 / 83
p0 1625 ± 1.261
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

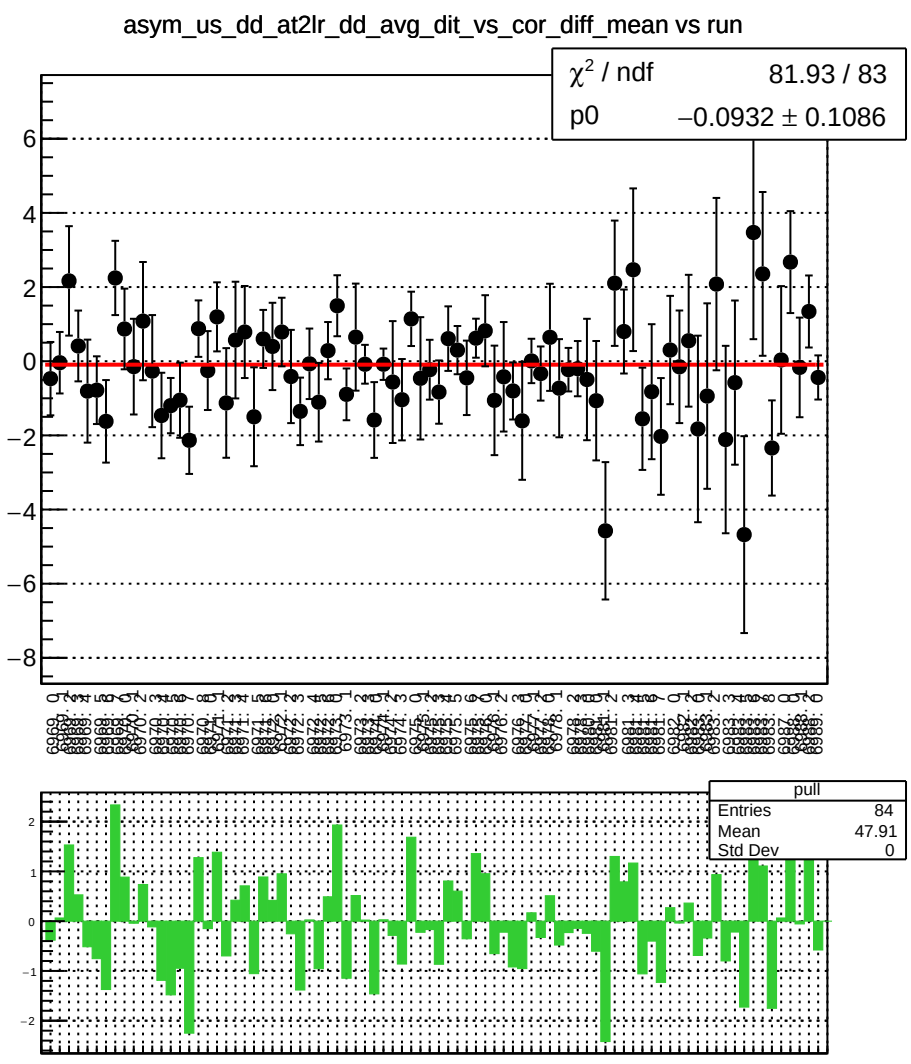

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 91.02 / 83
p0 −2481 ± 2914
100
50
0
−50
−100
pull
Entries 84
Mean −1405
Std Dev 0
3
2
1
0
−1
−2

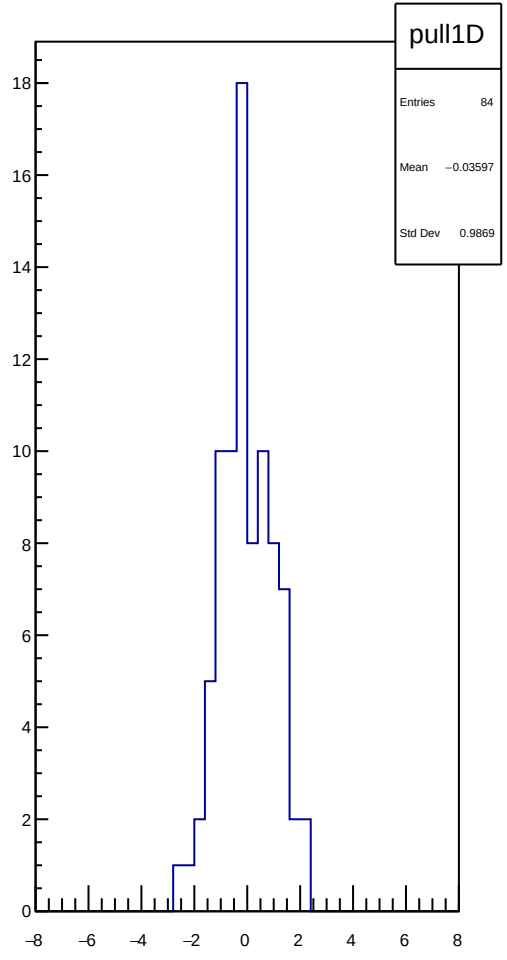

pull1D
Entries 84
Mean −0.004195
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

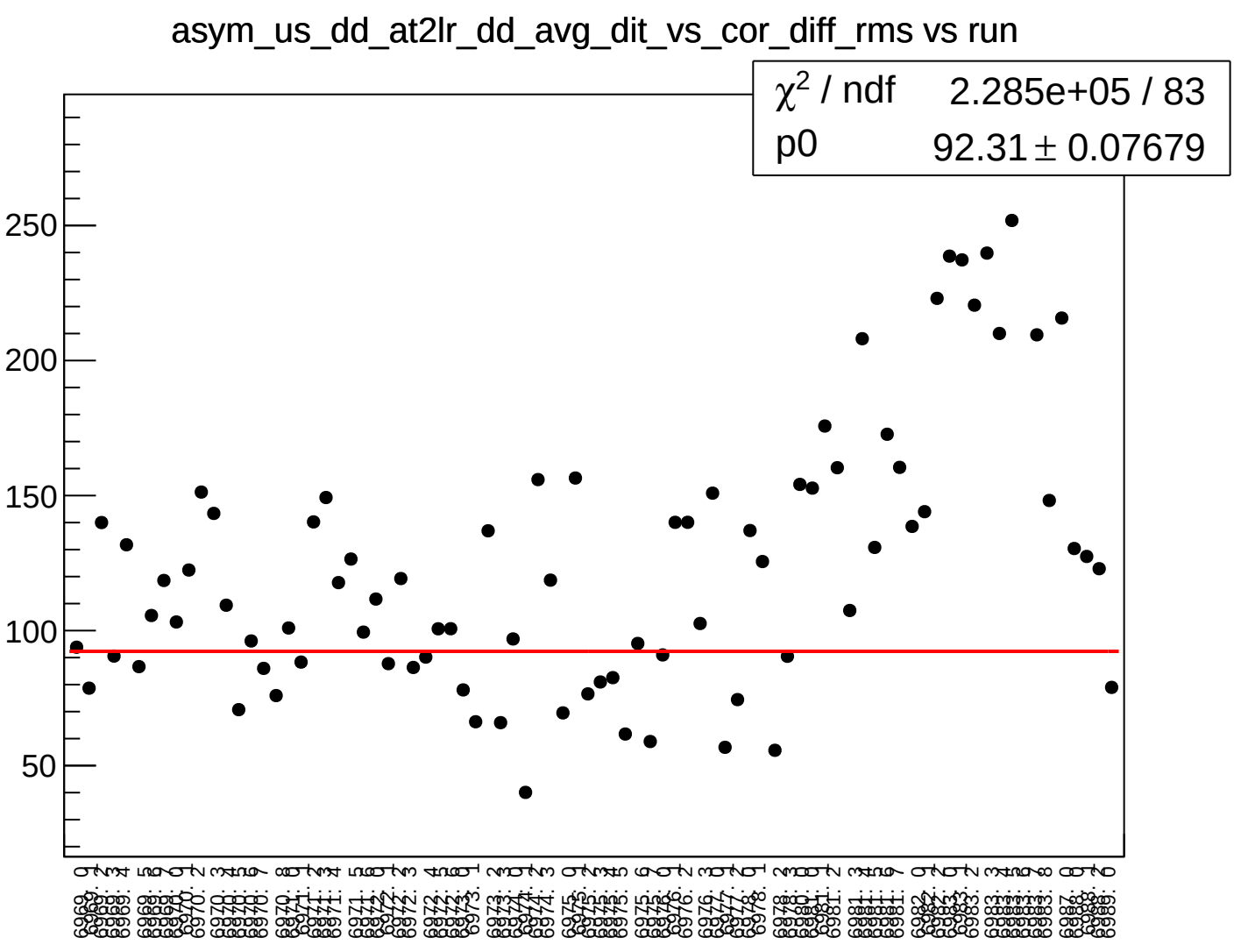

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1682 / 83
p0 2664 ± 2.06
2900
2800
2700
2600
2500


asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.03 / 83
p0 9.537e−14 ± 8.359e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
pull
Entries 84
Mean 36.09
Std Dev 33.44
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.2068
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

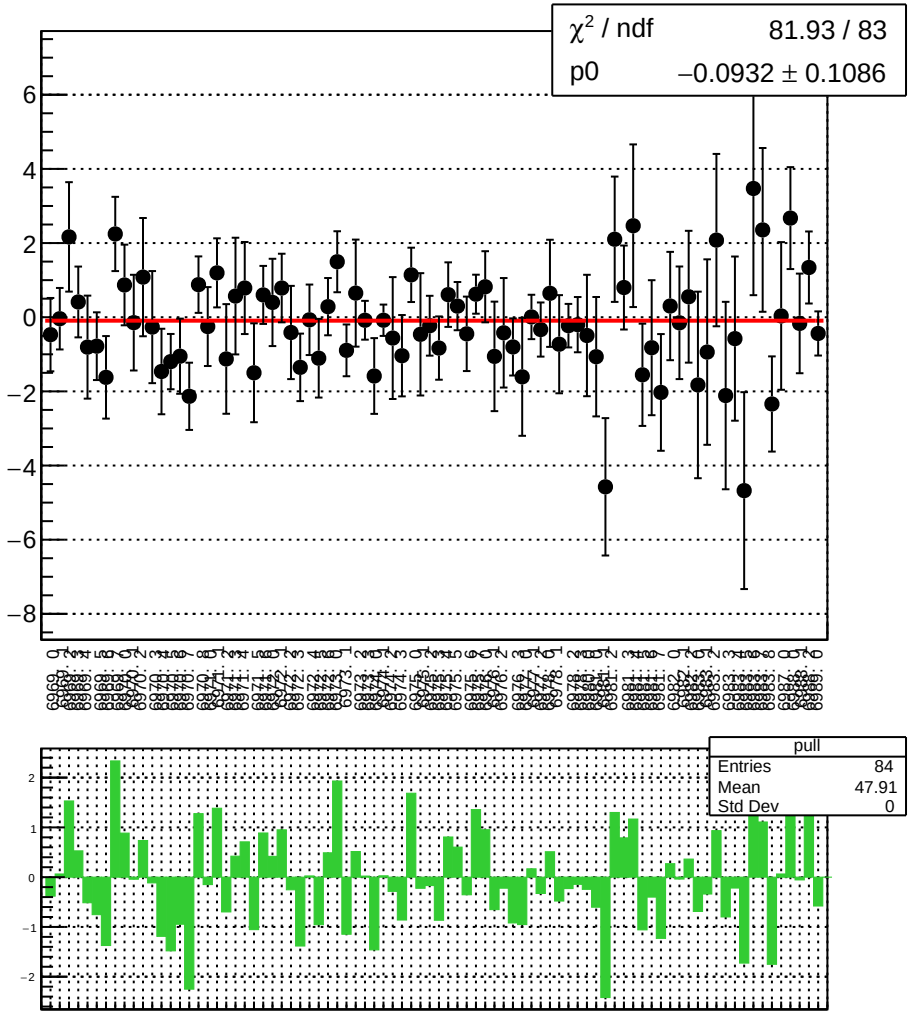

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 83
p0 4.512e−11 ± 5.911e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

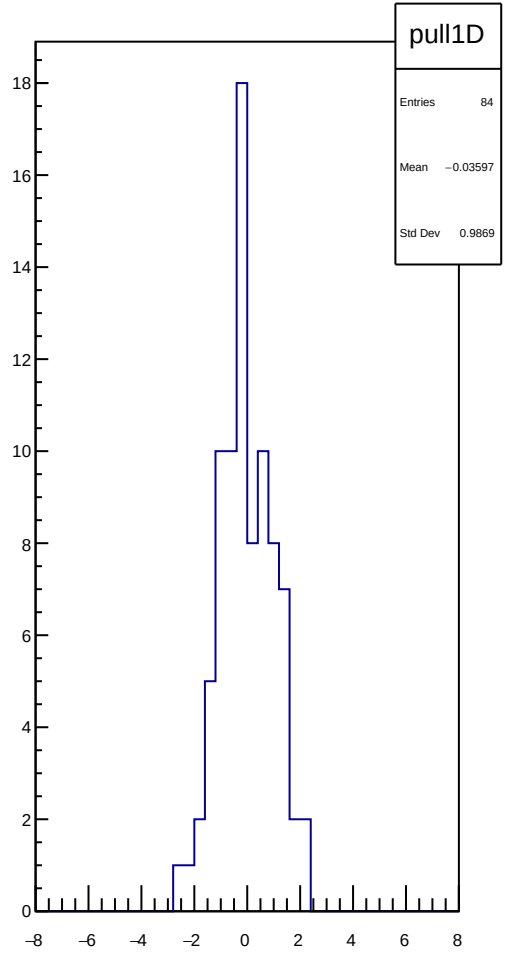

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.93 / 83
p0 −0.0932 ± 0.1086
pull
Entries 84
Mean 47.91
Std Dev 0

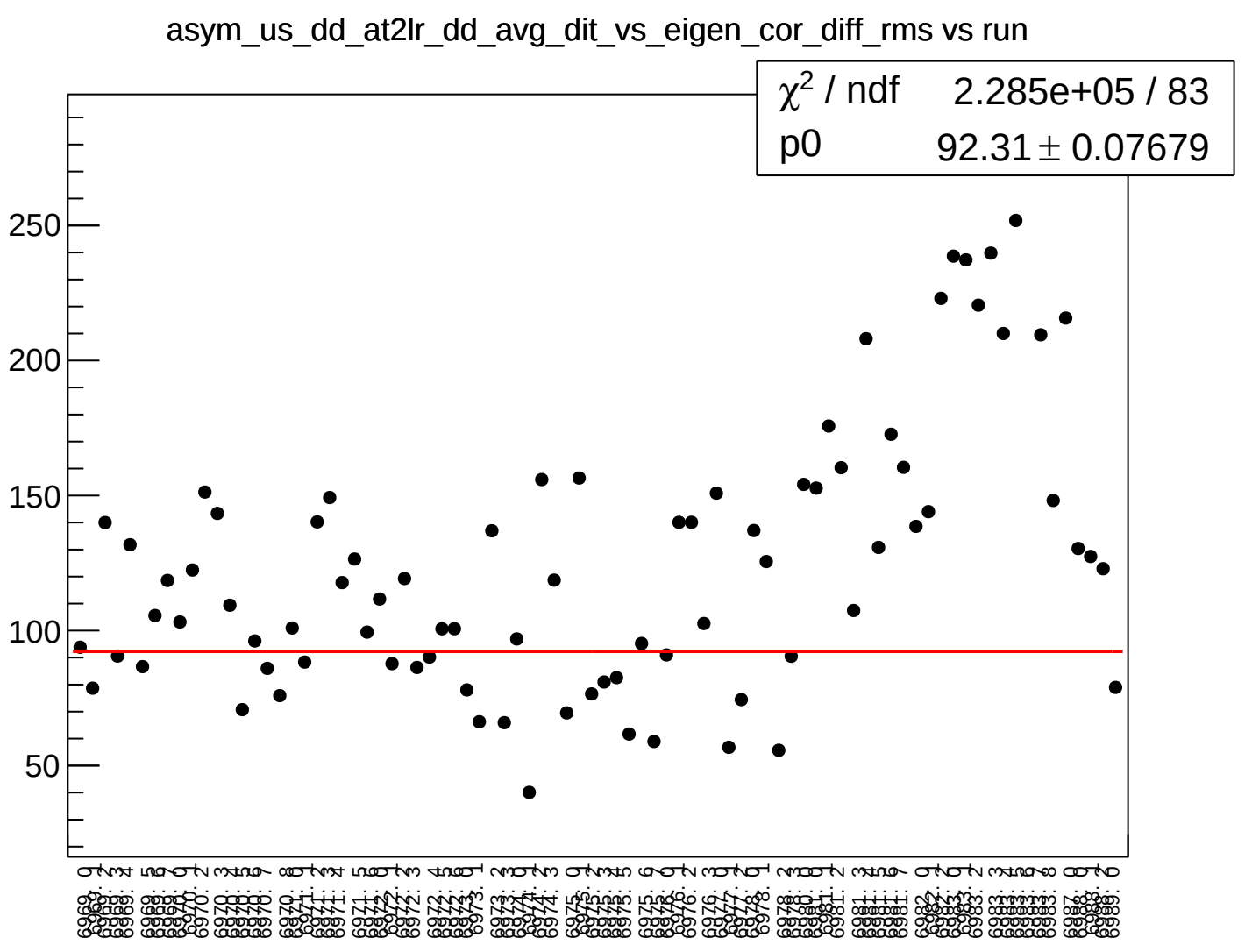

pull1D
Entries 84
Mean −0.03597
Std Dev 0.9869

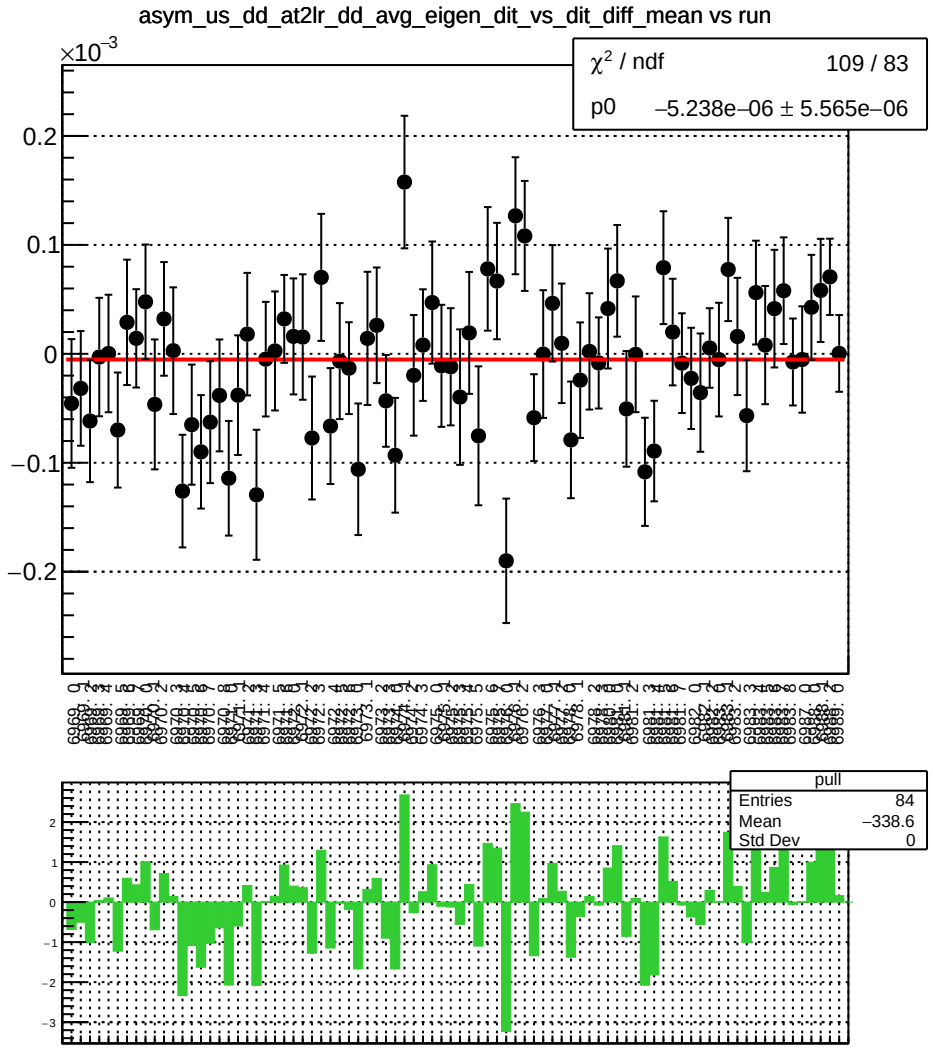

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.285e+05 / 83
p0 92.31 ± 0.07679
250
200
150
100
50

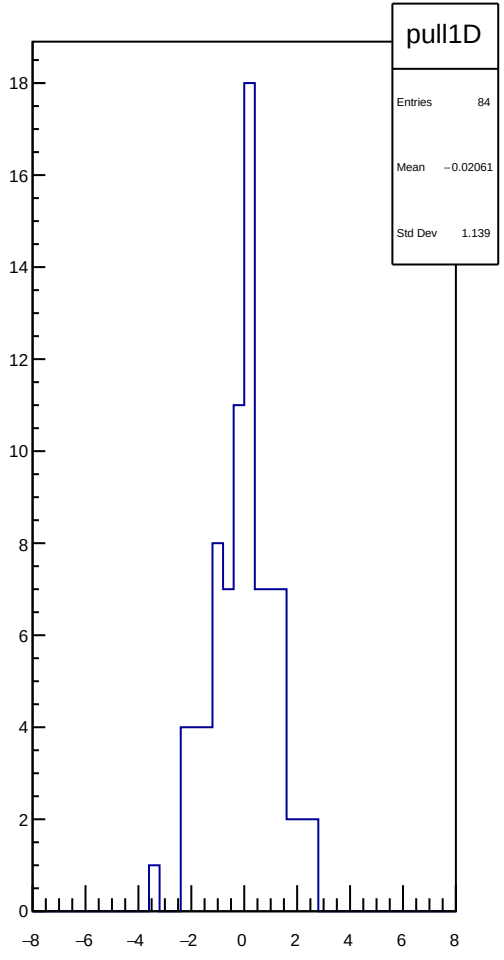
asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run

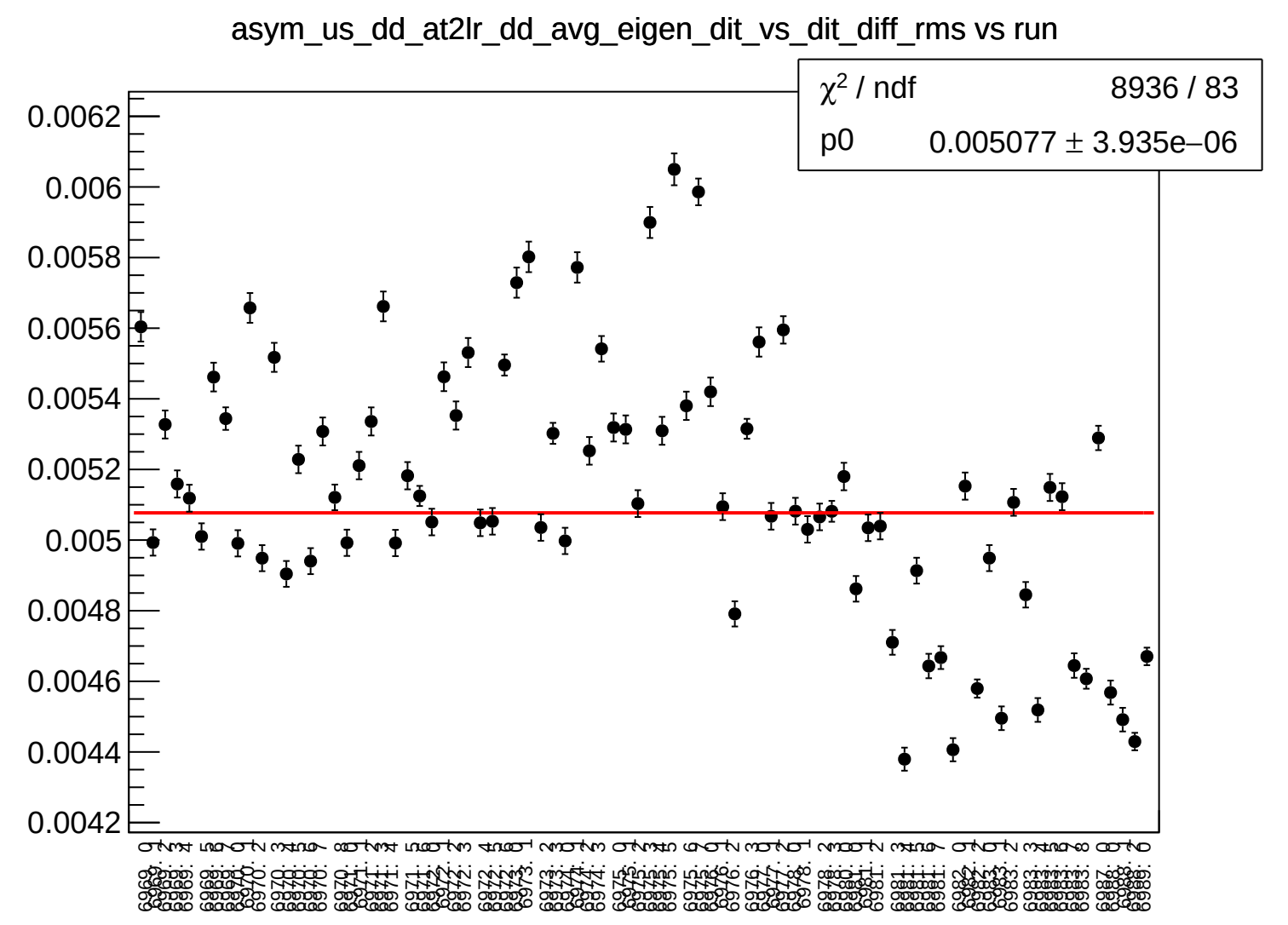


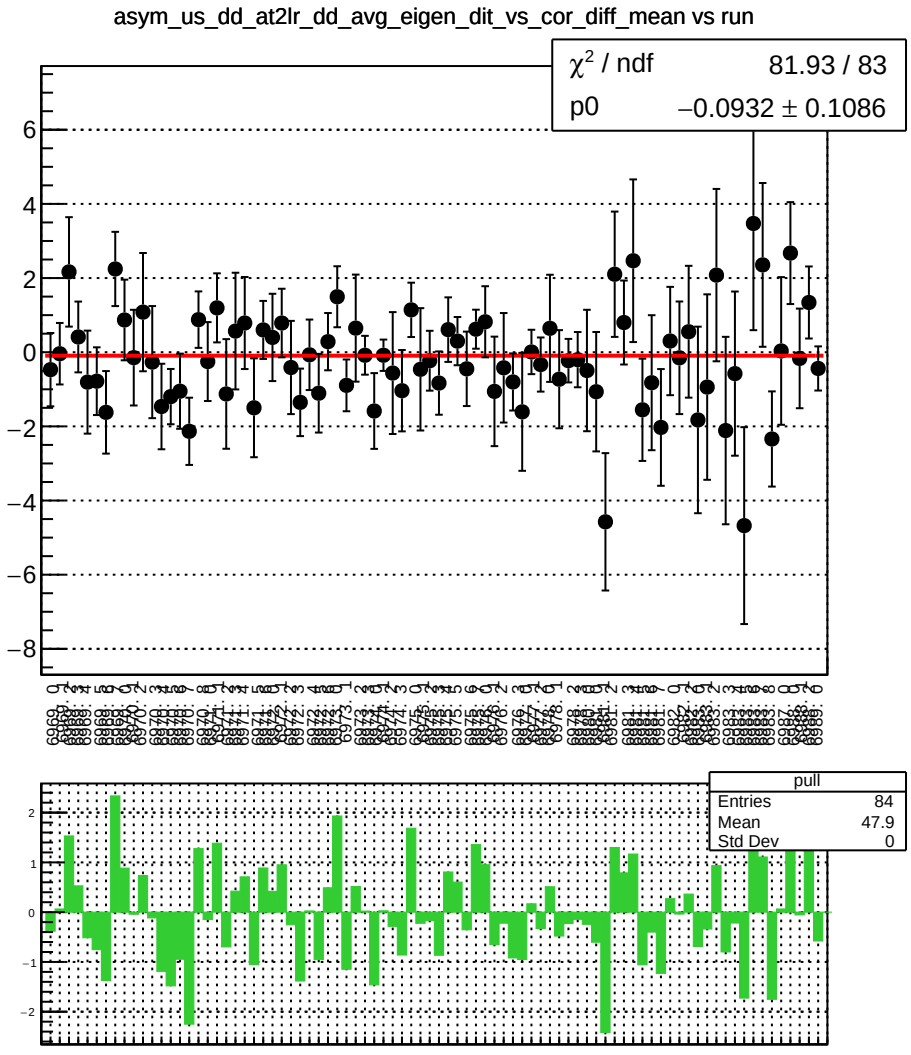


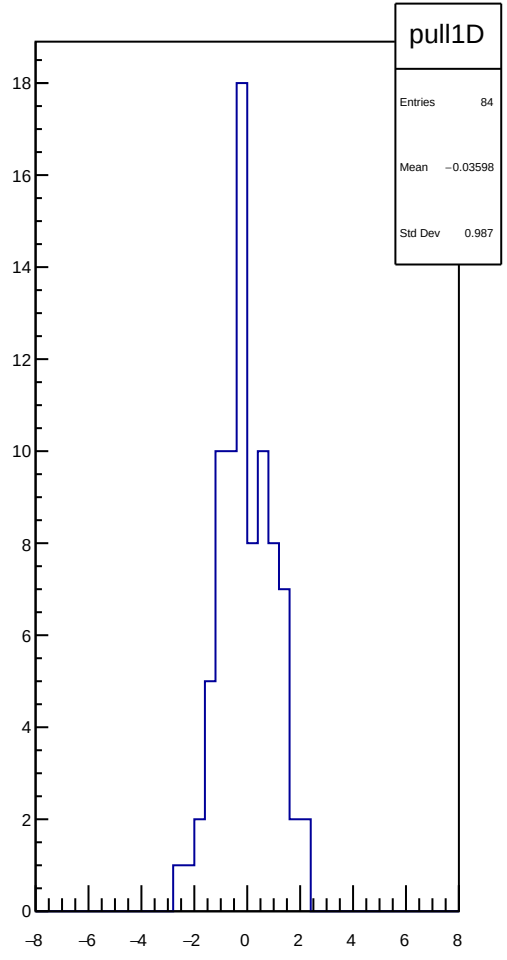

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.285e+05 / 83
p0 92.31 ± 0.07679
250
200
150
100
50

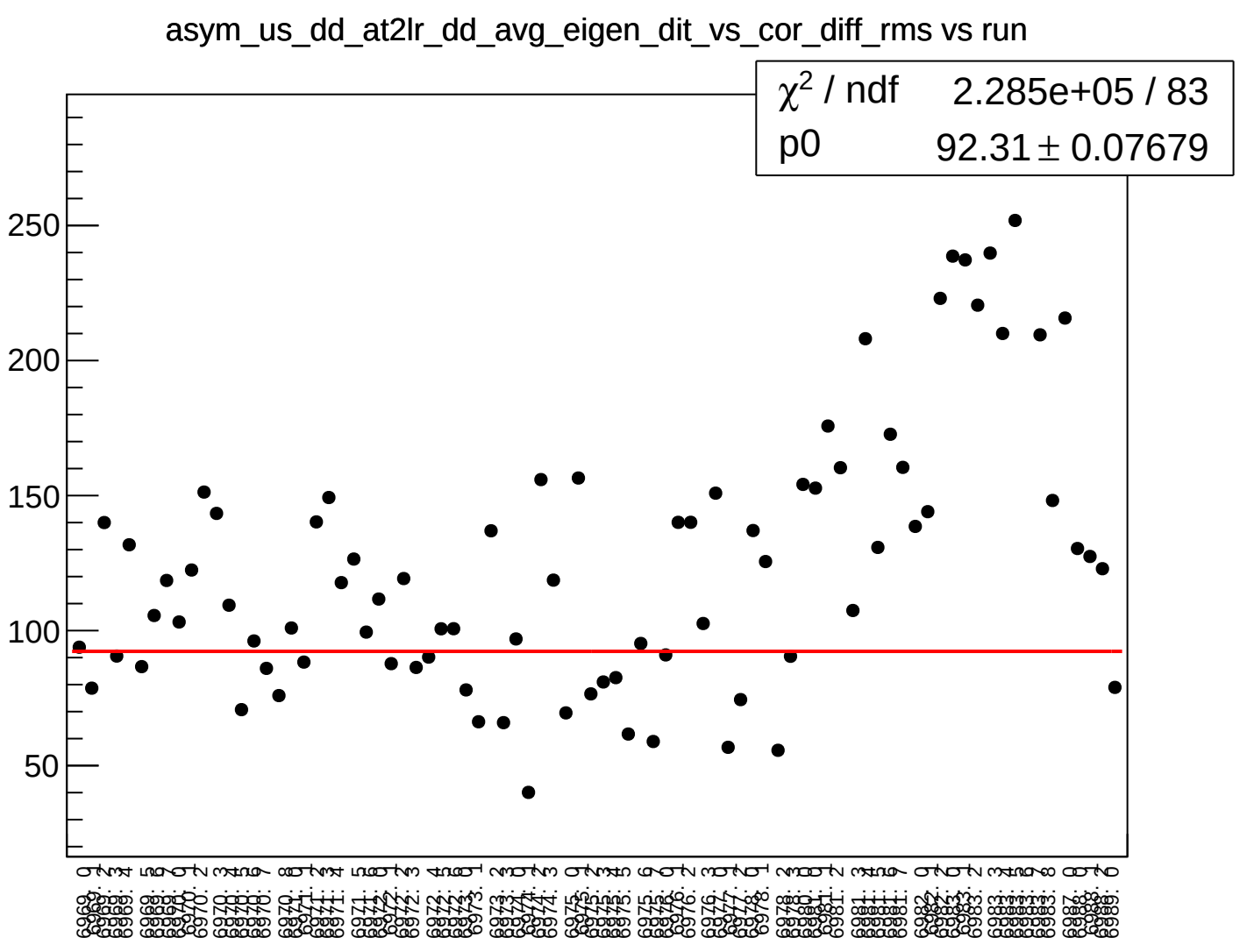

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 109 / 83
p0 −5.238e−06 ± 5.565e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 84
Mean −338.6
Std Dev 0
2
1
0
−1
−2
−3

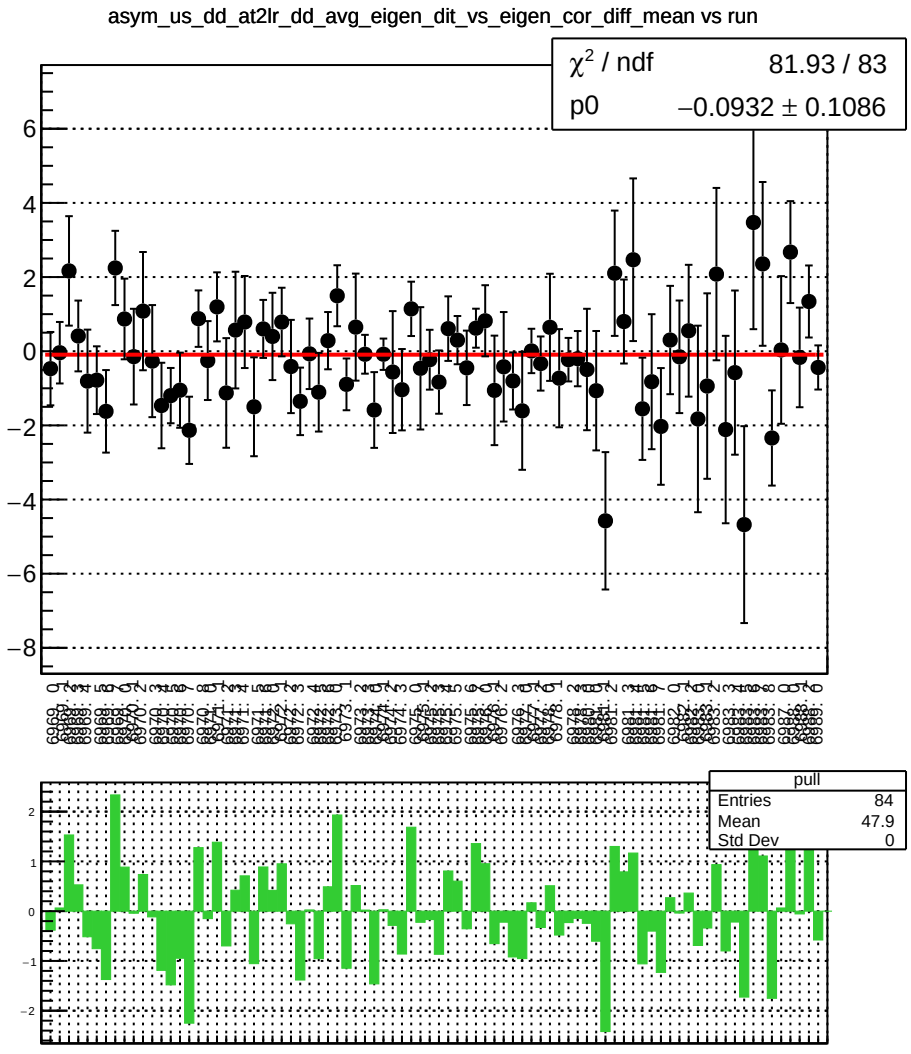

pull1D
Entries 84
Mean −0.02061
Std Dev 1.139
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

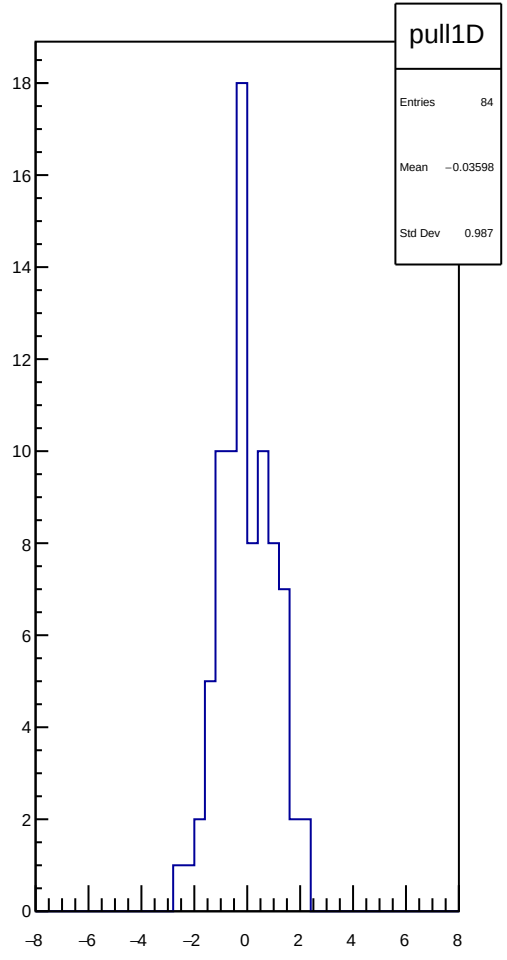

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8936 / 83
p0 0.005077 ± 3.935e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

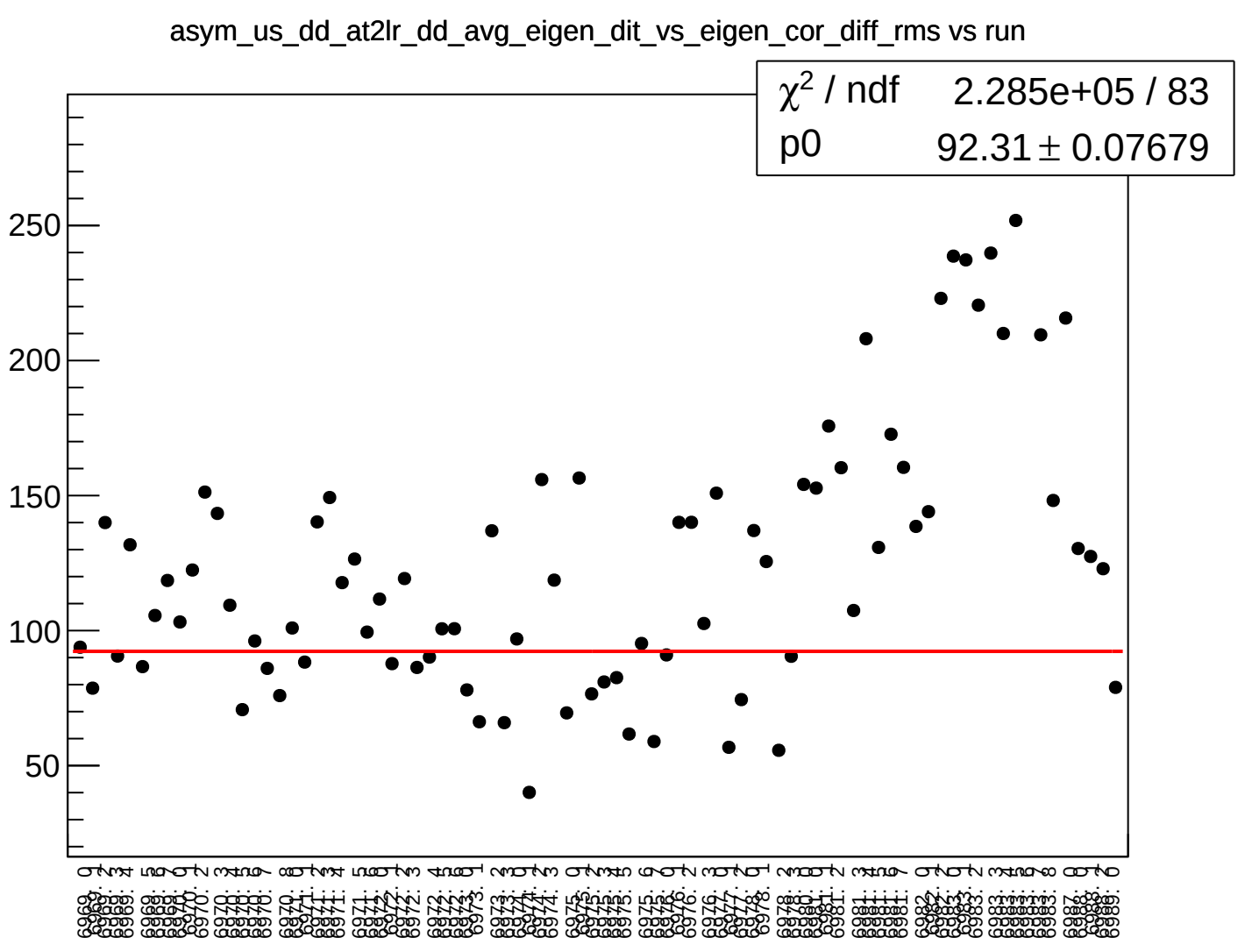

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.93 / 83
p0 −0.0932 ± 0.1086
pull
Entries 84
Mean 47.9
Std Dev 0

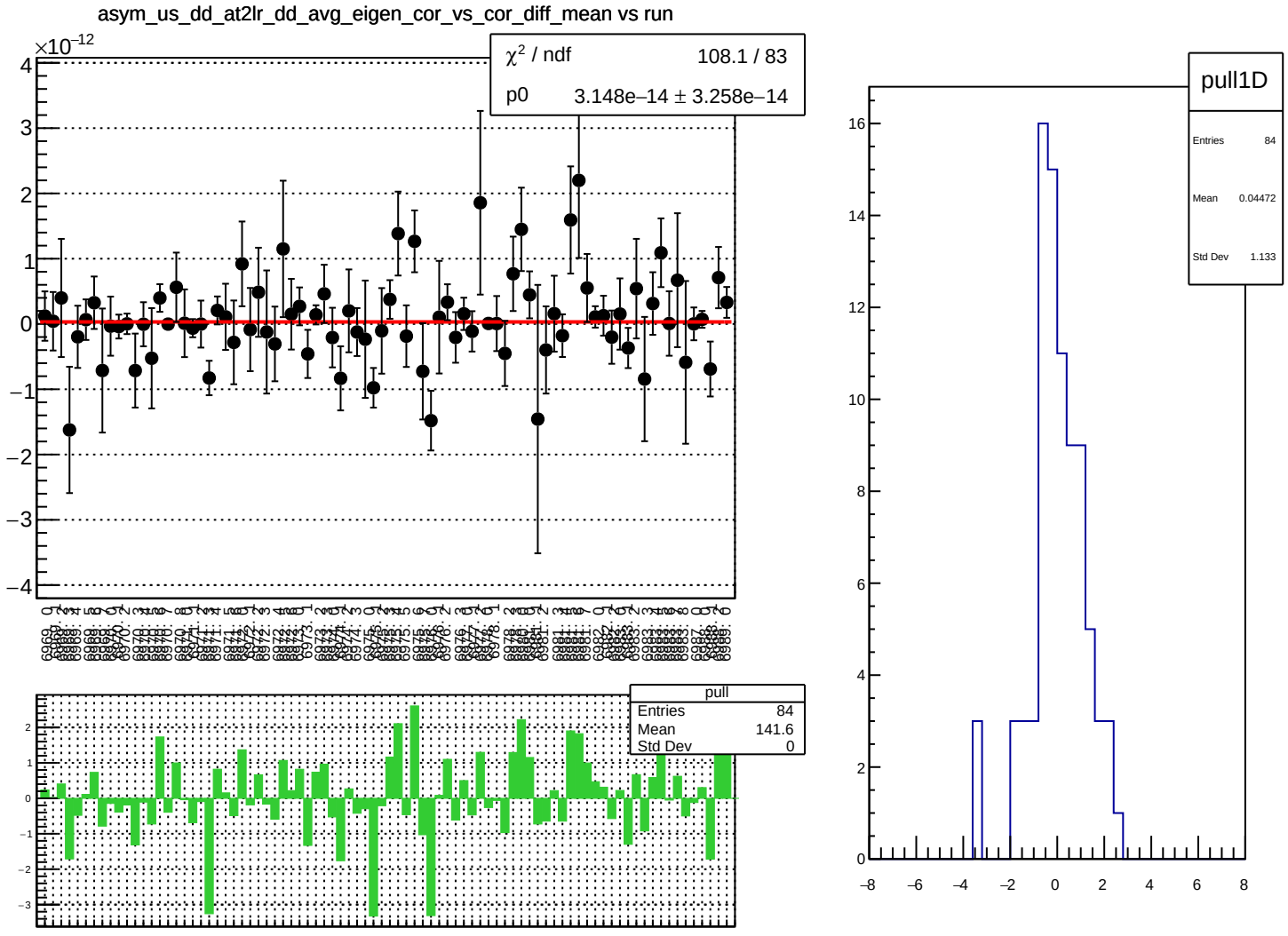

pull1D
Entries 84
Mean −0.03598
Std Dev 0.987

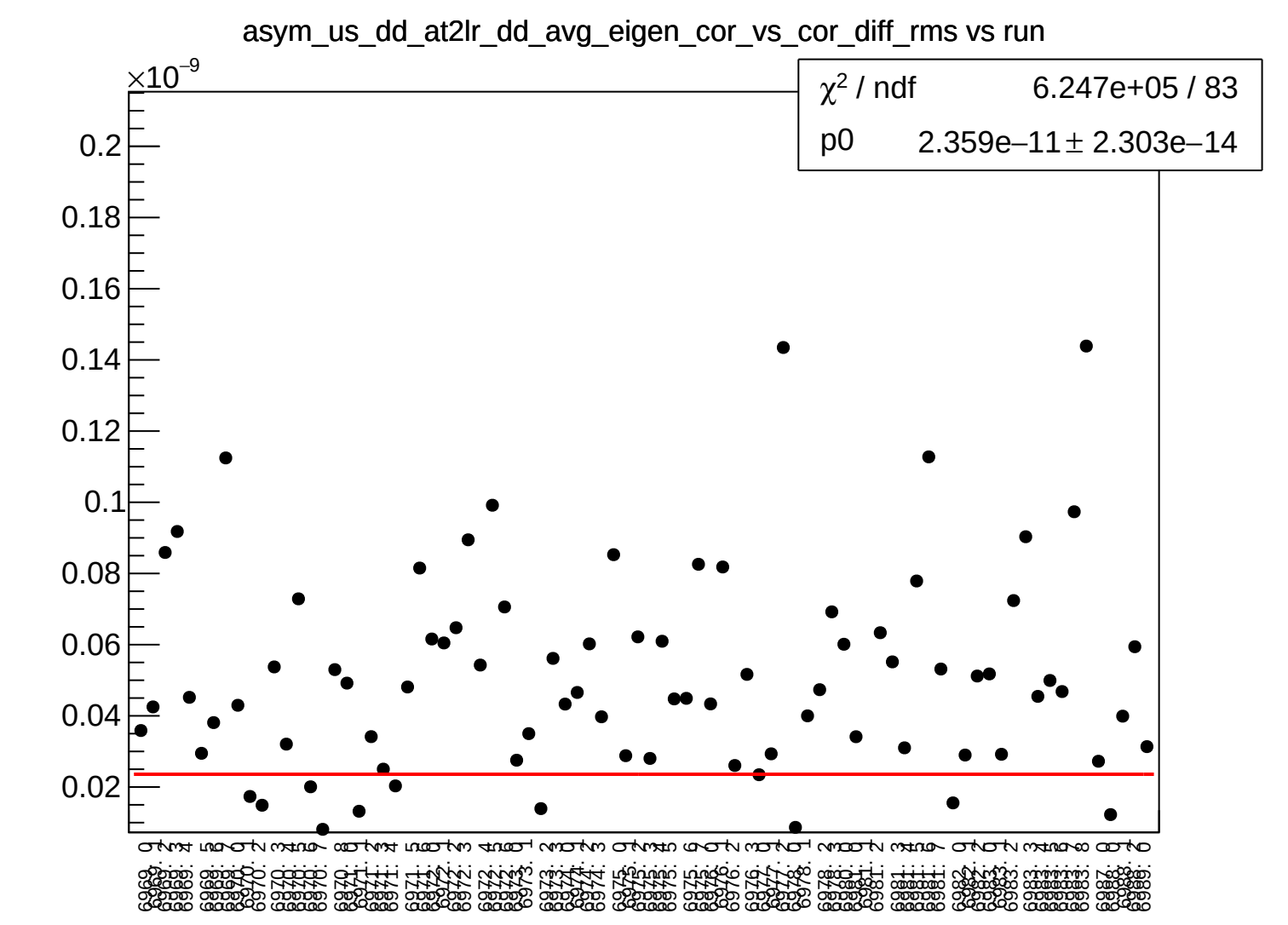

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.285e+05 / 83
p0 92.31 ± 0.07679
250
200
150
100
50

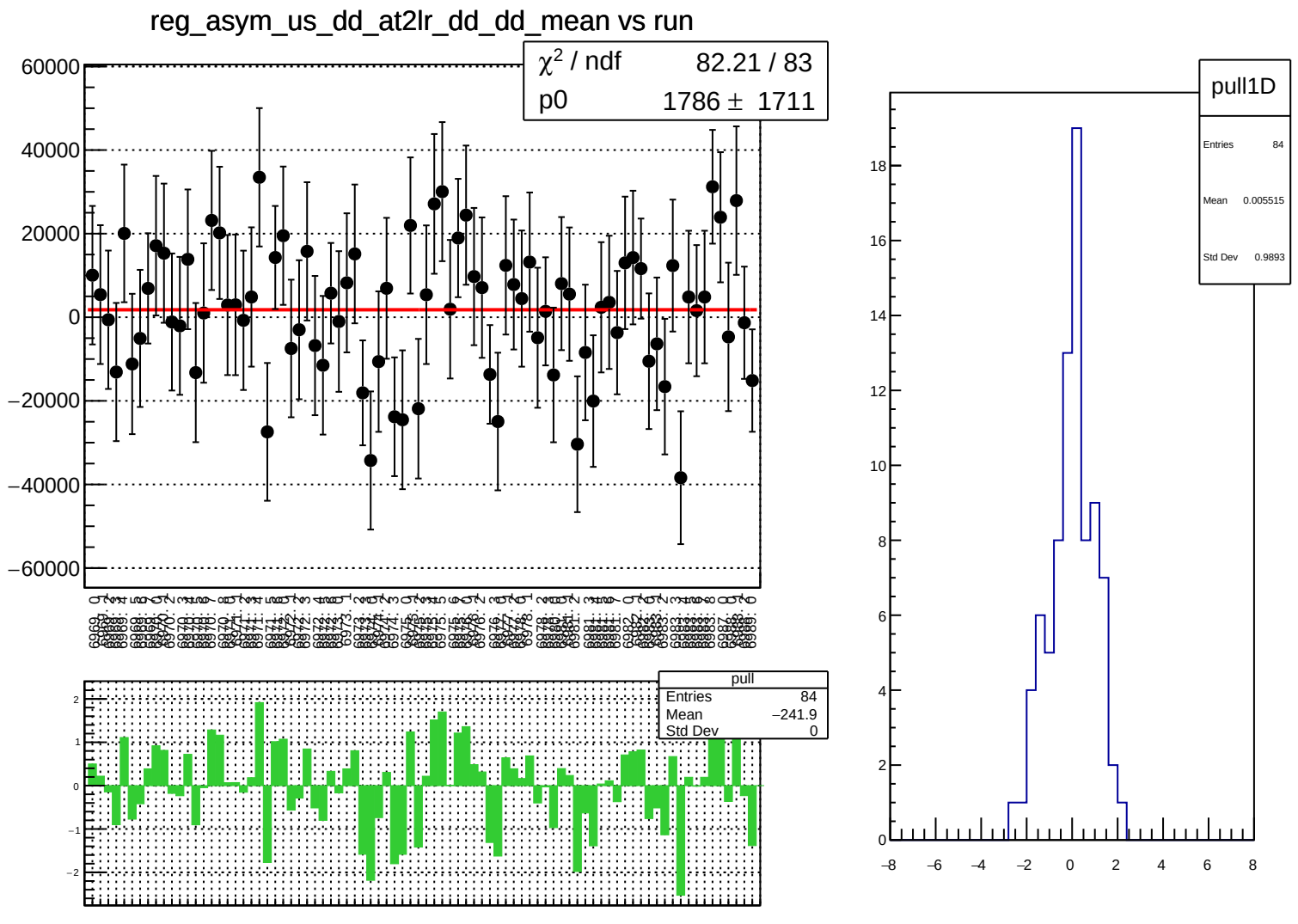

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.93 / 83
p0 −0.0932 ± 0.1086
pull
Entries 84
Mean 47.9
Std Dev 0

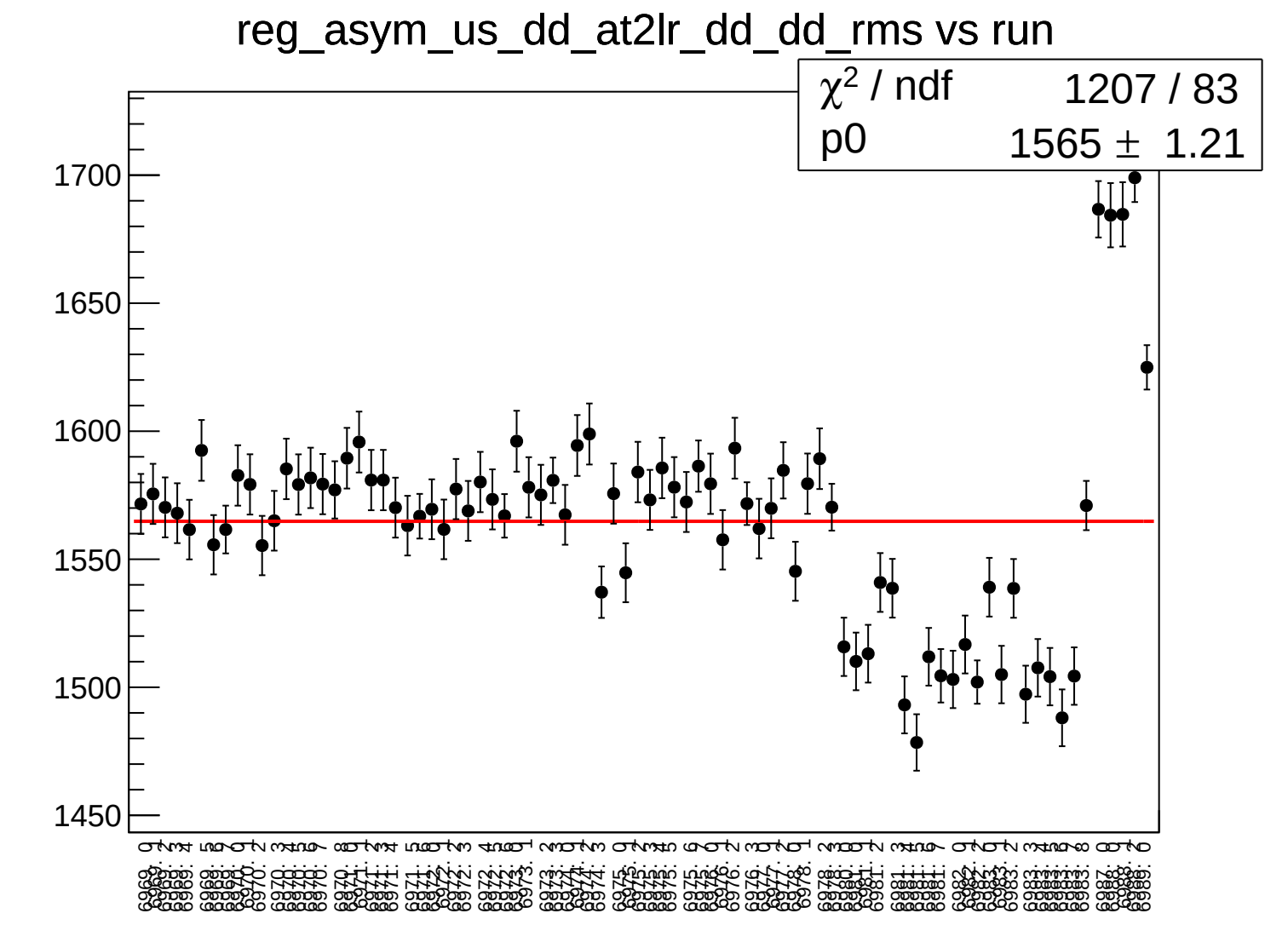

pull1D
Entries 84
Mean −0.03598
Std Dev 0.987

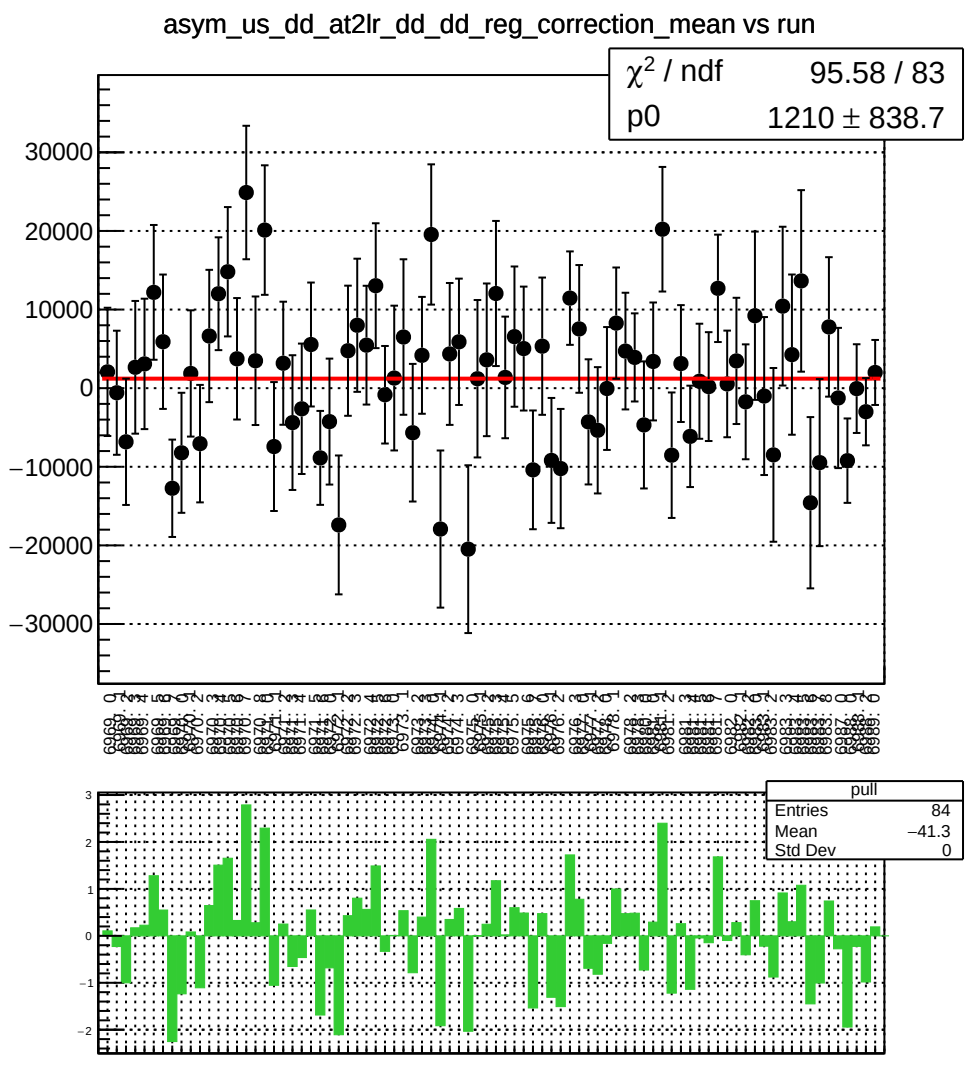

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.285e+05 / 83
p0 92.31 ± 0.07679
250
200
150
100
50

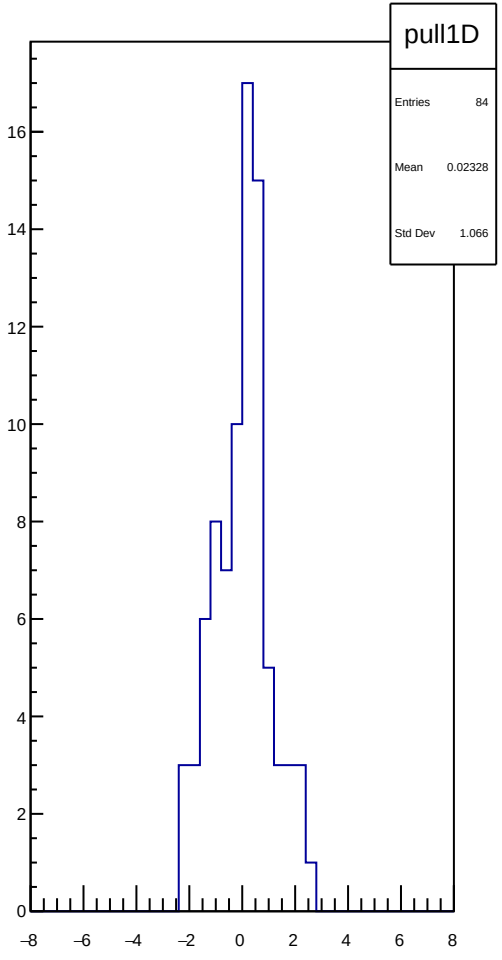

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.1 / 83
p0 3.148e−14 ± 3.258e−14
pull
Entries 84
Mean 141.6
Std Dev 0
pull1D
Entries 84
Mean 0.04472
Std Dev 1.133

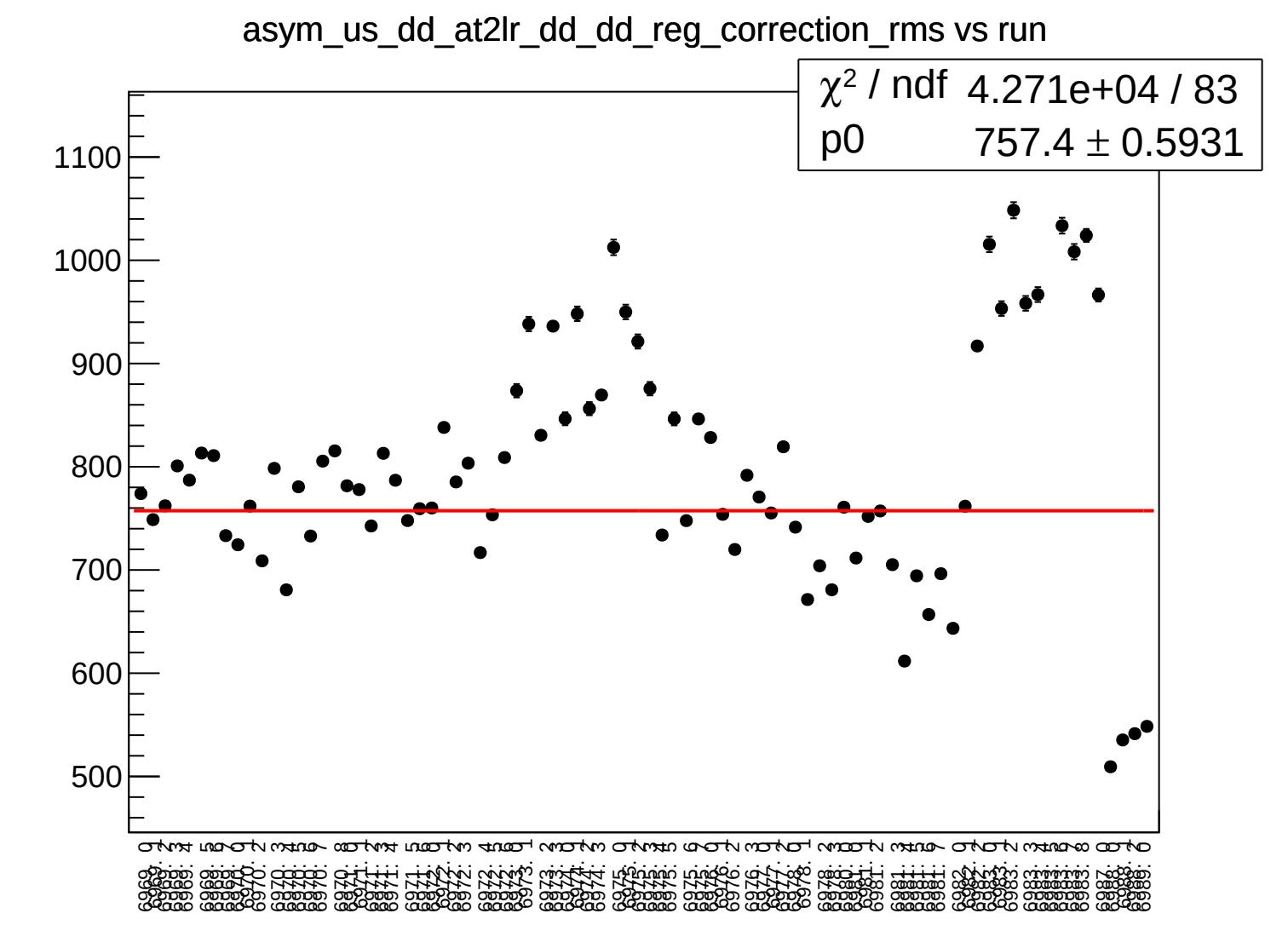

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.247e+05 / 83
p0 2.359e−11 ± 2.303e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

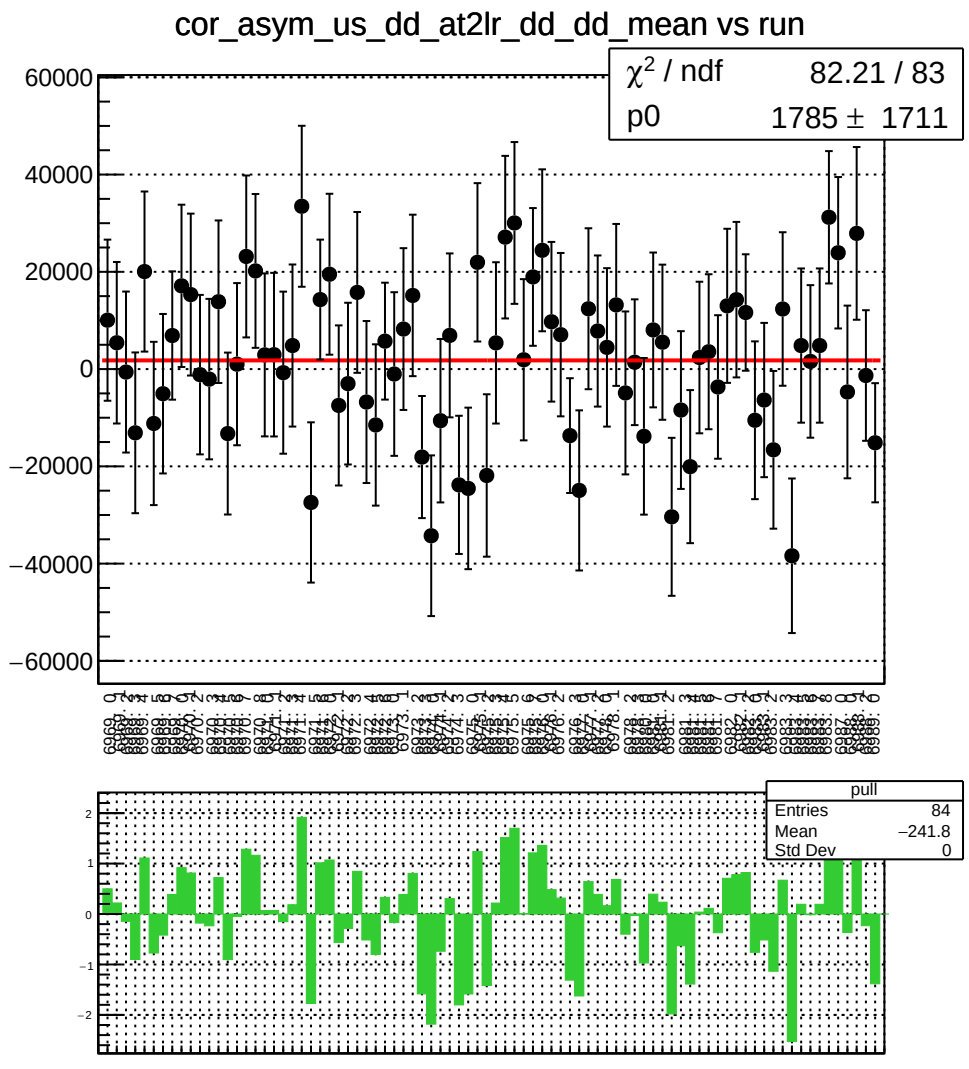

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 82.21 / 83
p0 1786 ± 1711
pull
Entries 84
Mean −241.9
Std Dev 0
pull1D
Entries 84
Mean 0.005515
Std Dev 0.9893

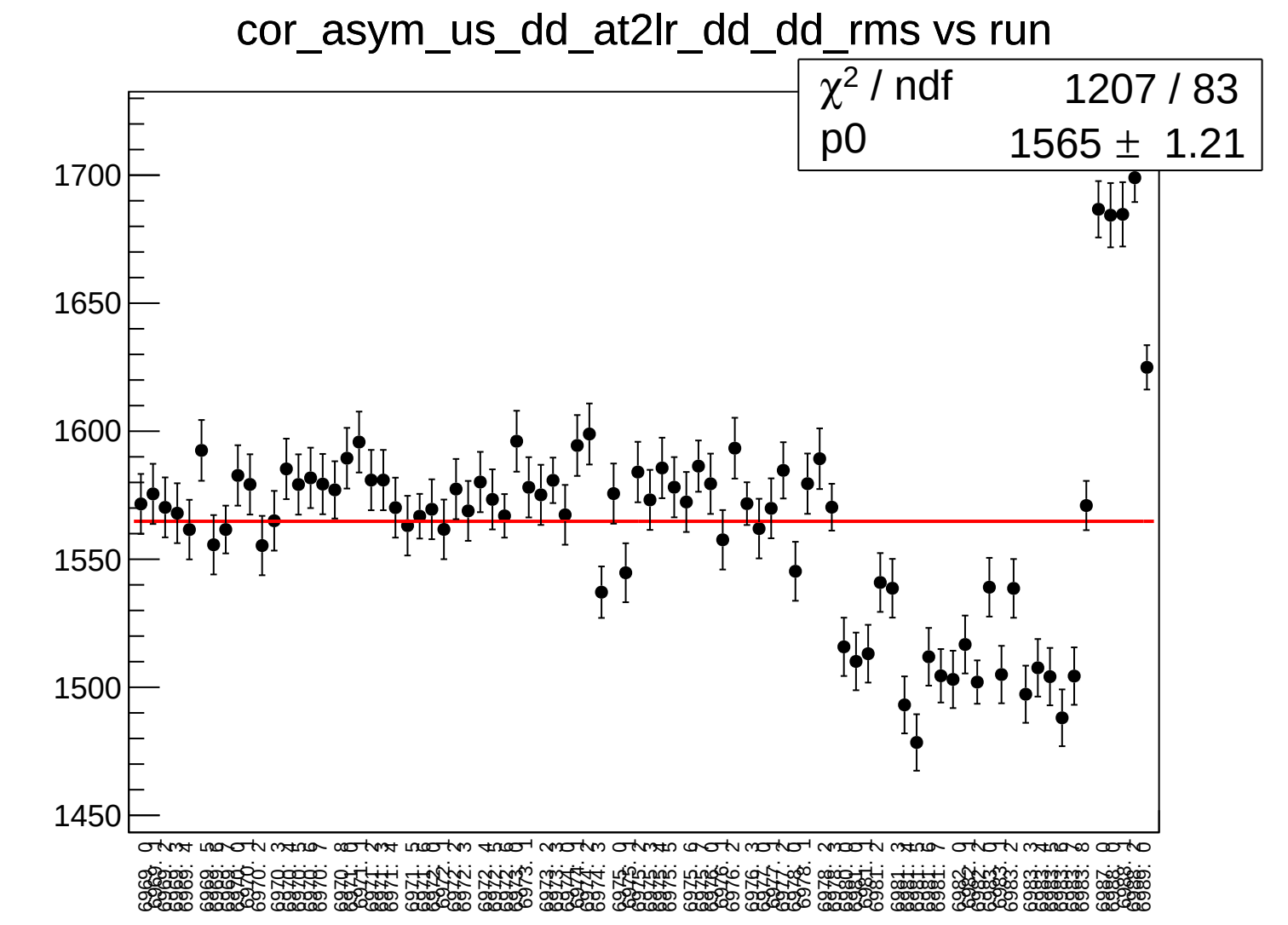

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1207 / 83
p0 1565 ± 1.21
1700
1650
1600
1550
1500
1450

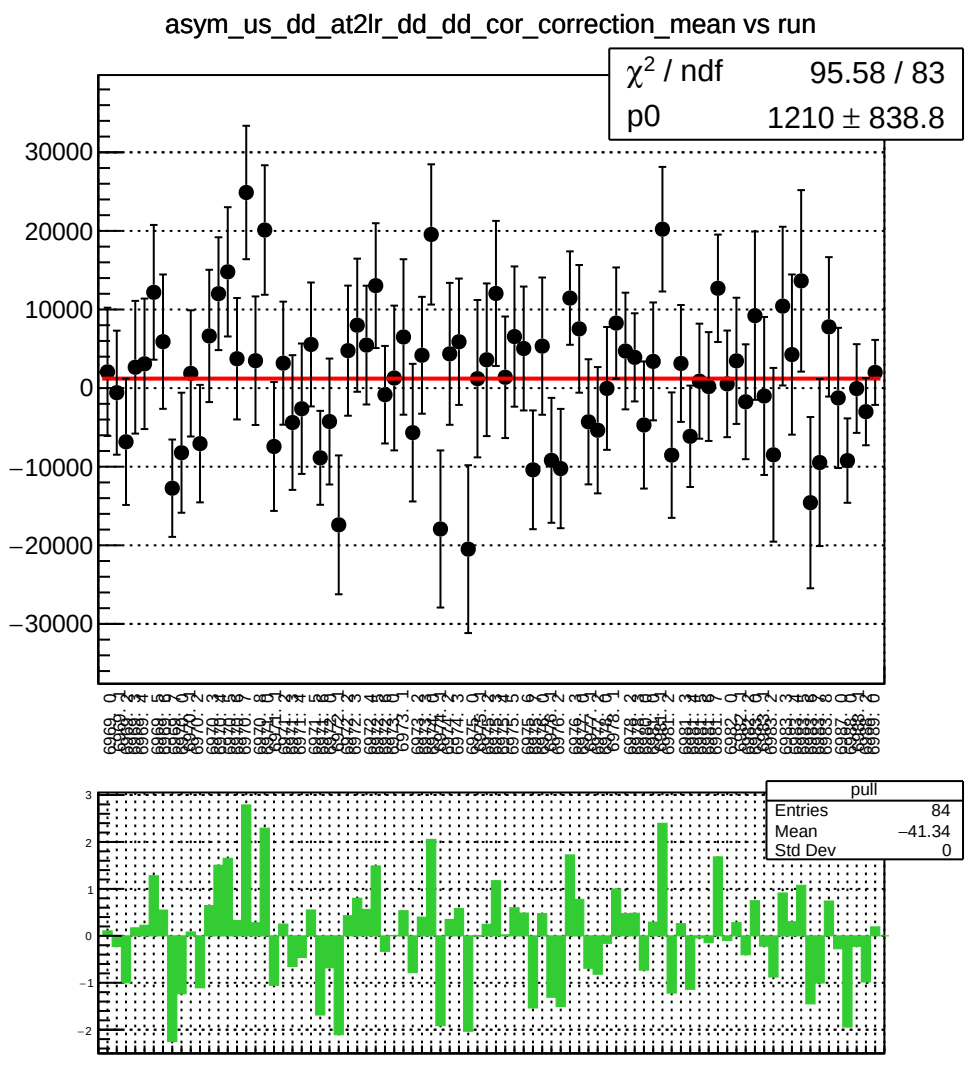

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 95.58 / 83
p0 1210 ± 838.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −41.3
Std Dev 0
3
2
1
0
−1
−2

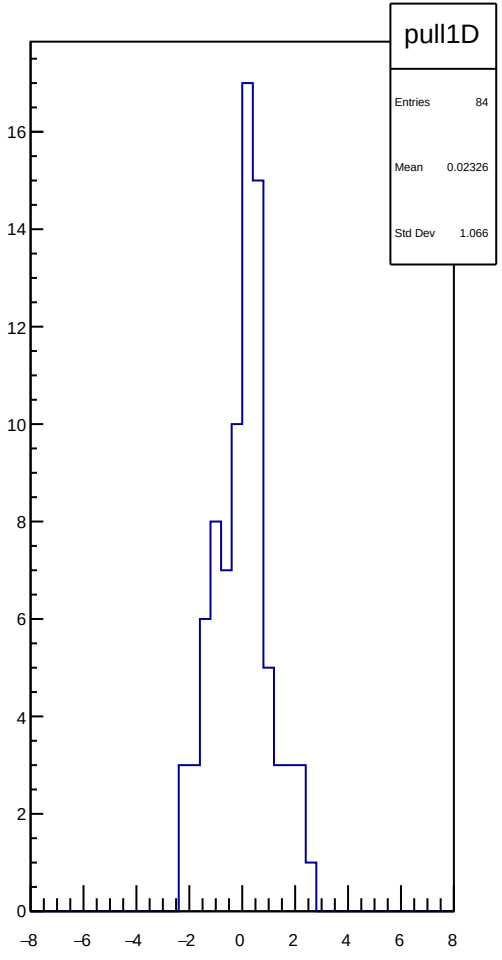

pull1D
Entries 84
Mean 0.02328
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 4.271e+04 / 83
p0 757.4 ± 0.5931
1100
1000
900
800
700
600
500


cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 82.21 / 83
p0 1785 ± 1711
pull
Entries 84
Mean −241.8
Std Dev 0
pull1D
Entries 84
Mean 0.005515
Std Dev 0.9893


cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1207 / 83
p0 1565 ± 1.21
1700
1650
1600
1550
1500
1450


asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 95.58 / 83
p0 1210 ± 838.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −41.34
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.02326
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
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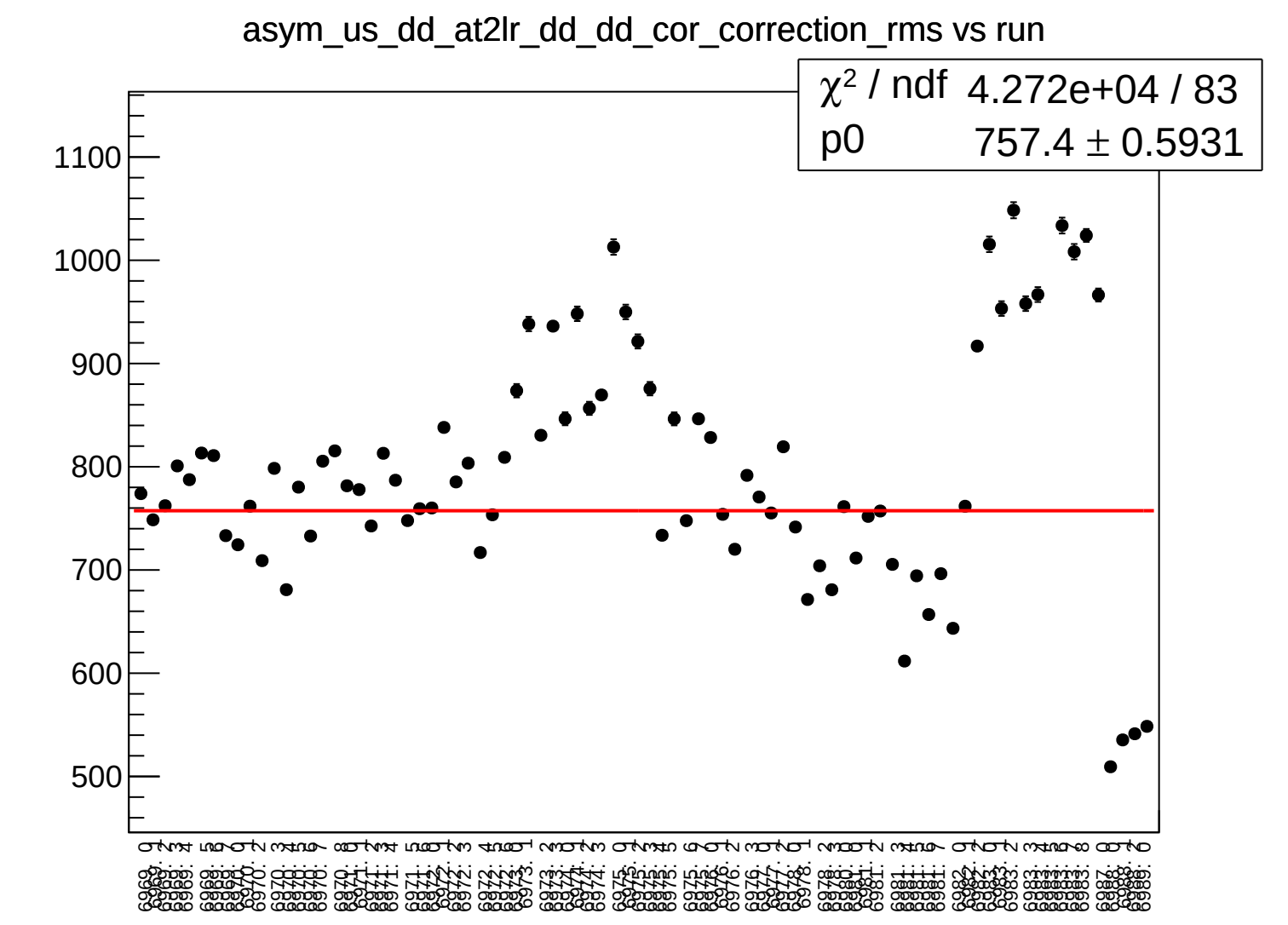
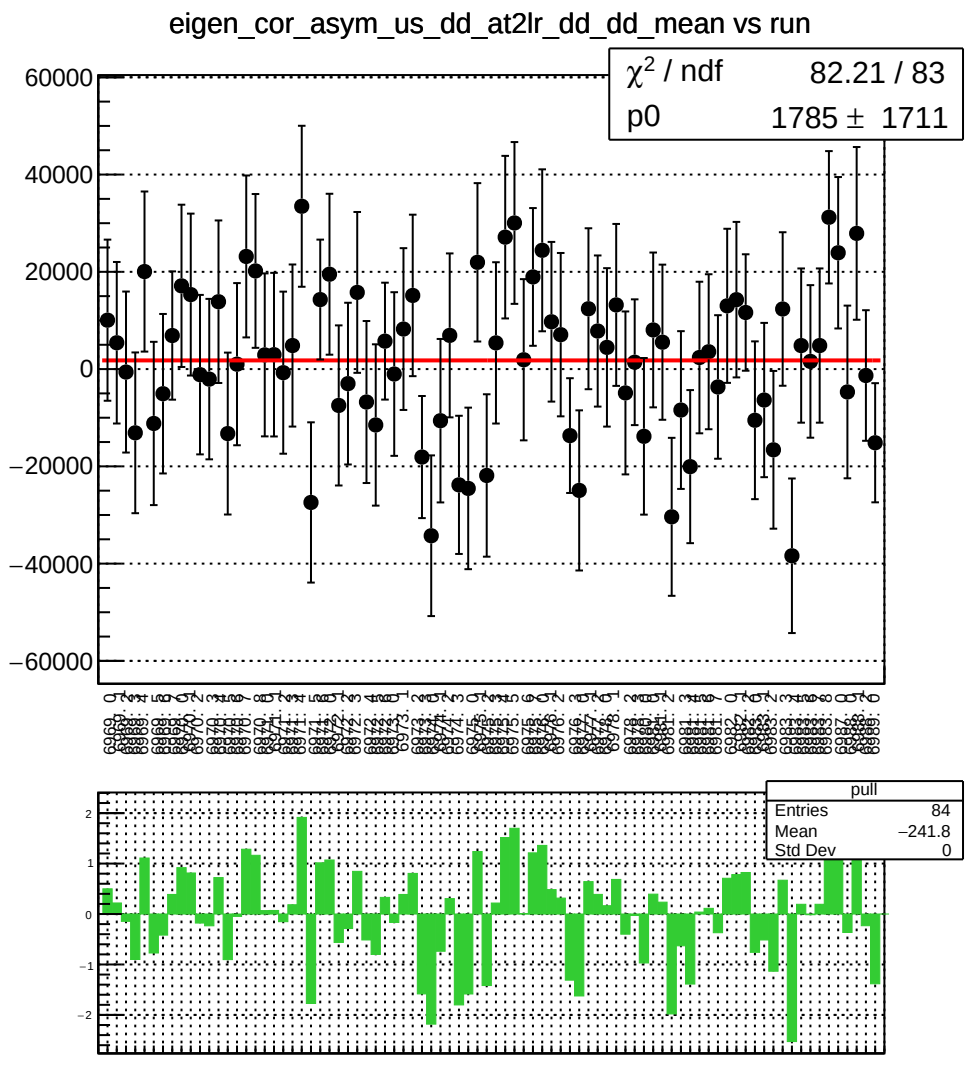
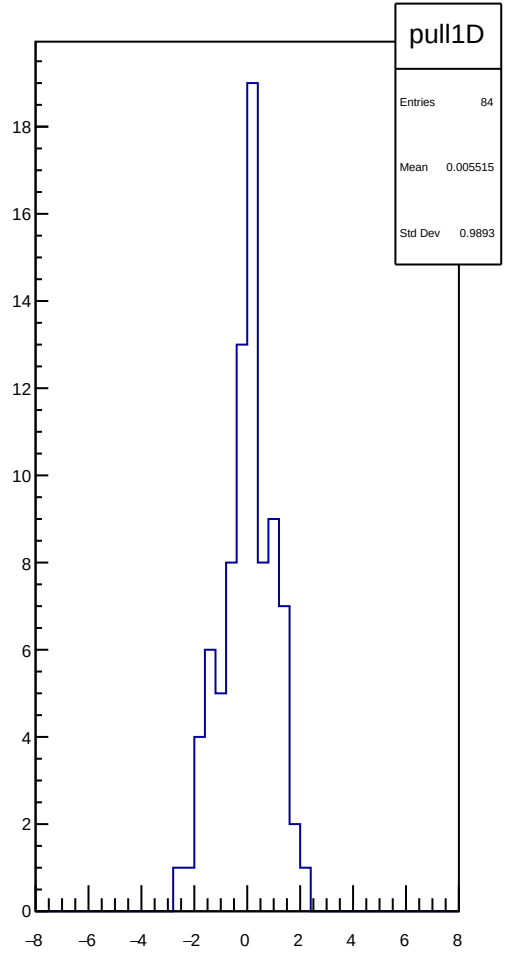
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 4.272e+04 / 83
p0 757.4 ± 0.5931
1100
1000
900
800
700
600
500


eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 82.21 / 83
p0 1785 ± 1711
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −241.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.005515
Std Dev 0.9893
18
16
14
12
10
8
6
4
2
0
−8
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−4
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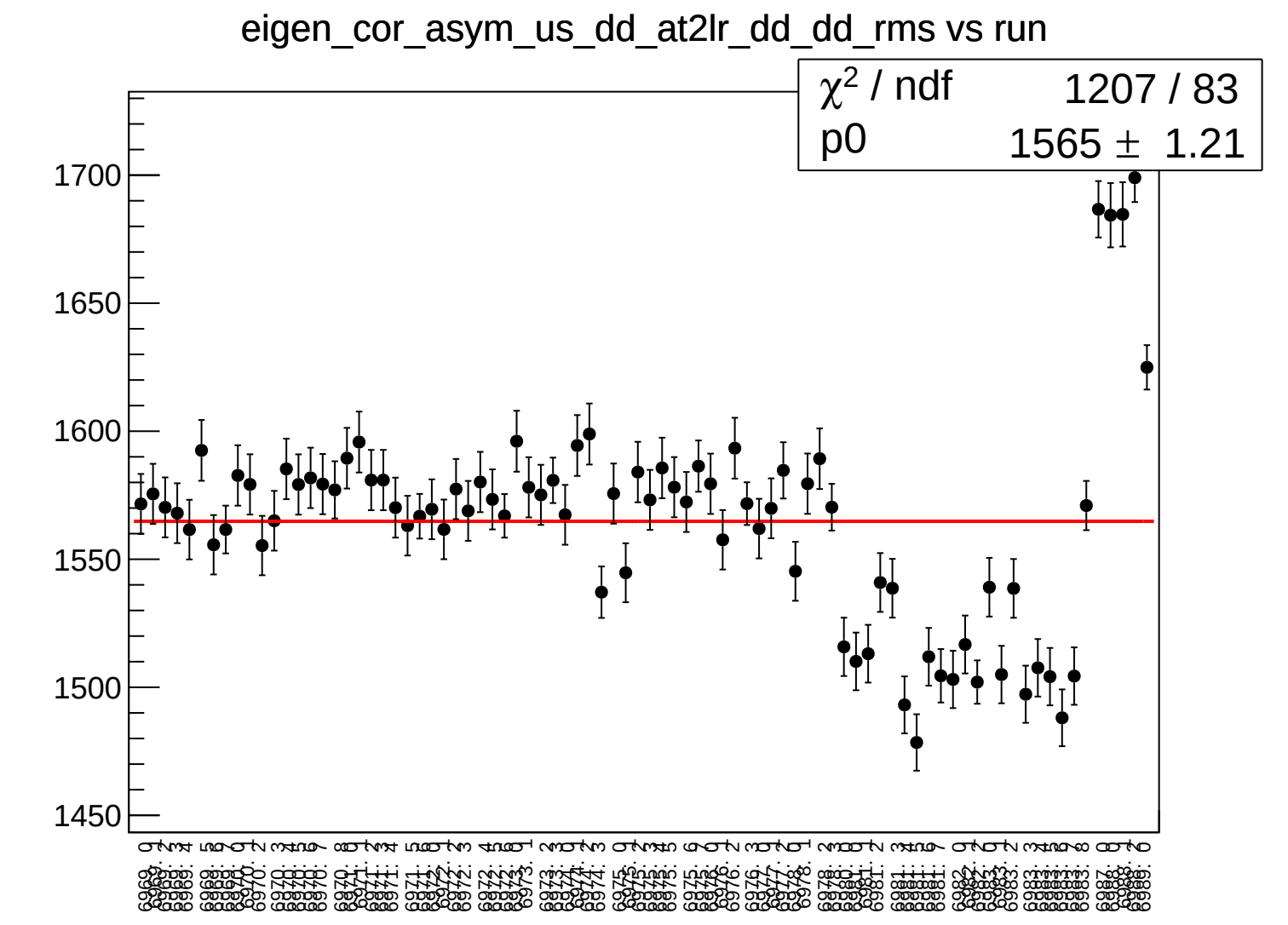
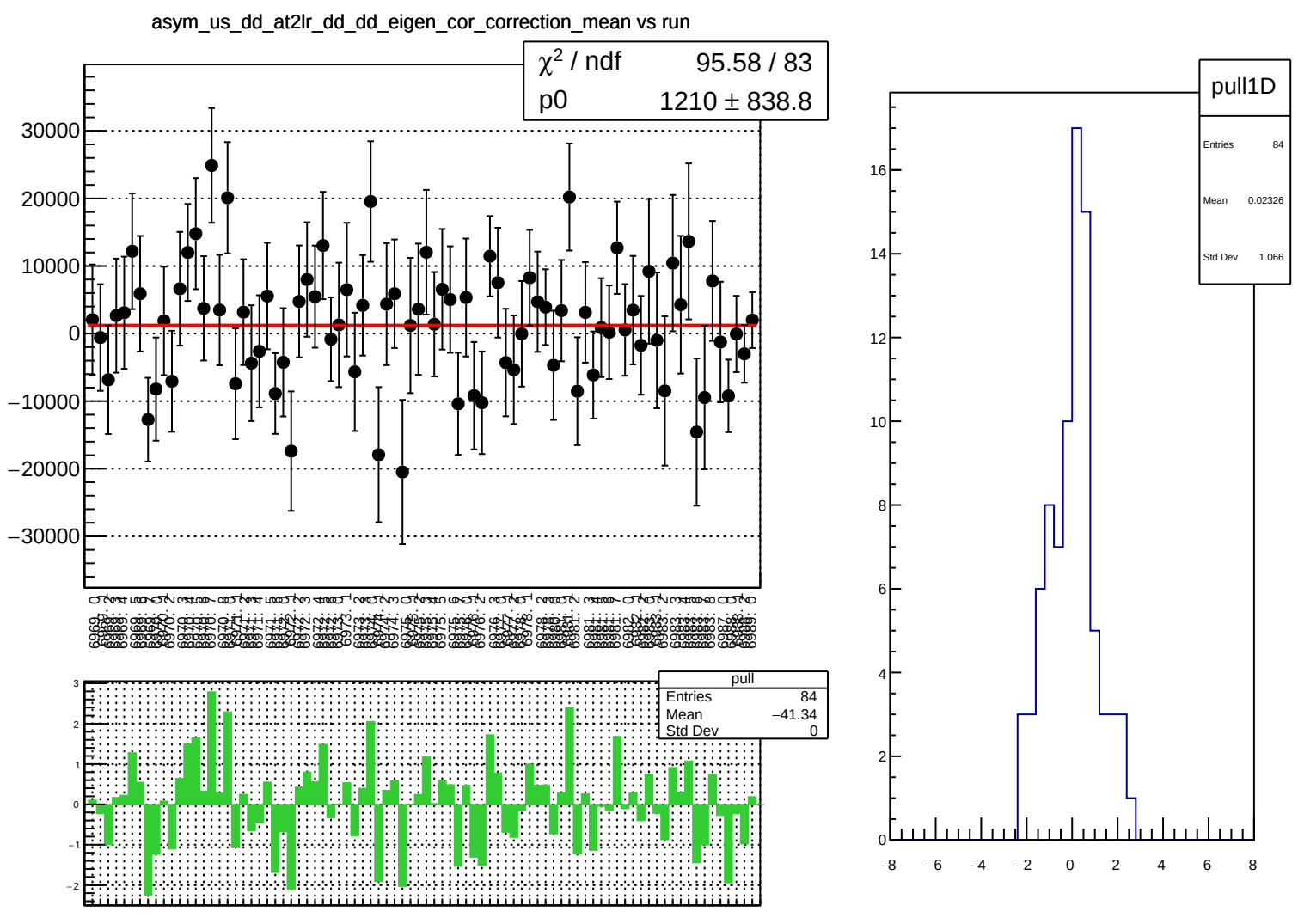
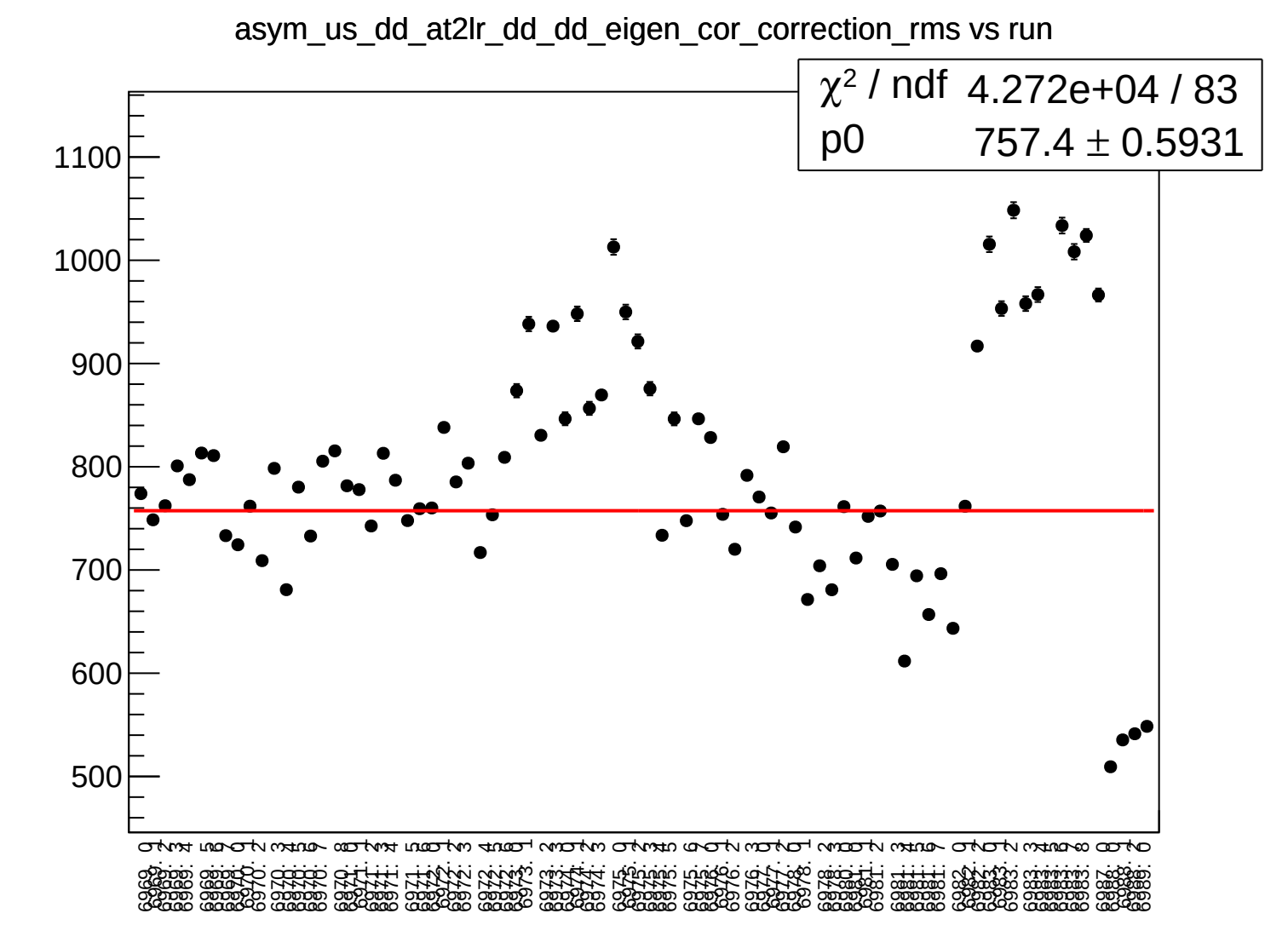
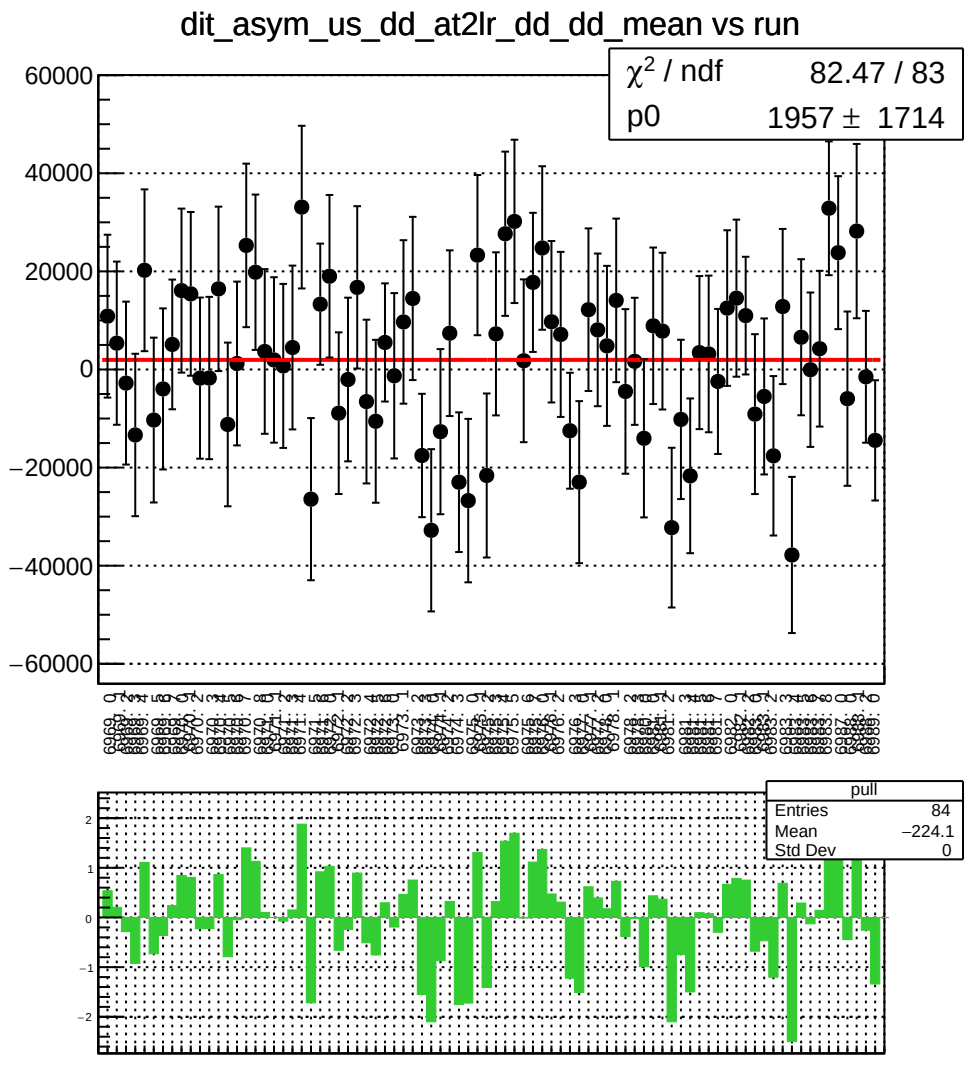
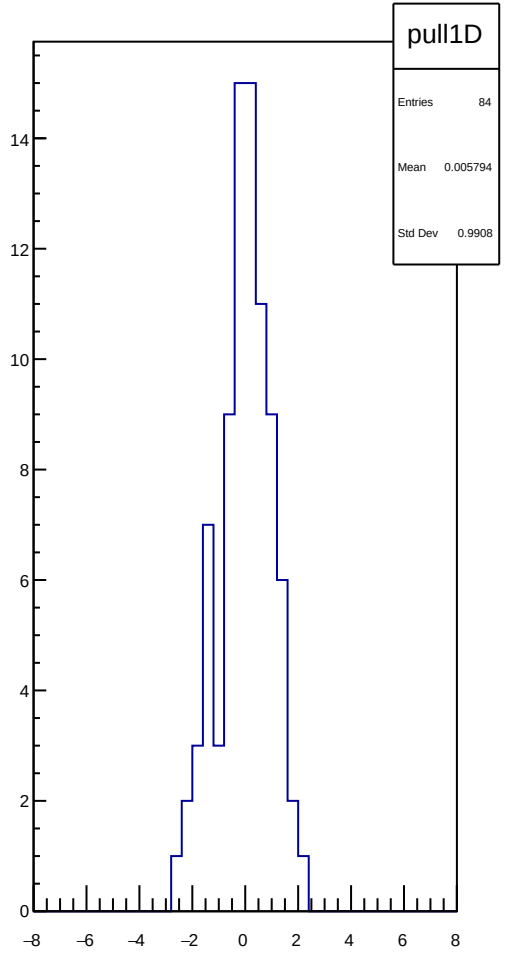
2
4
6
8

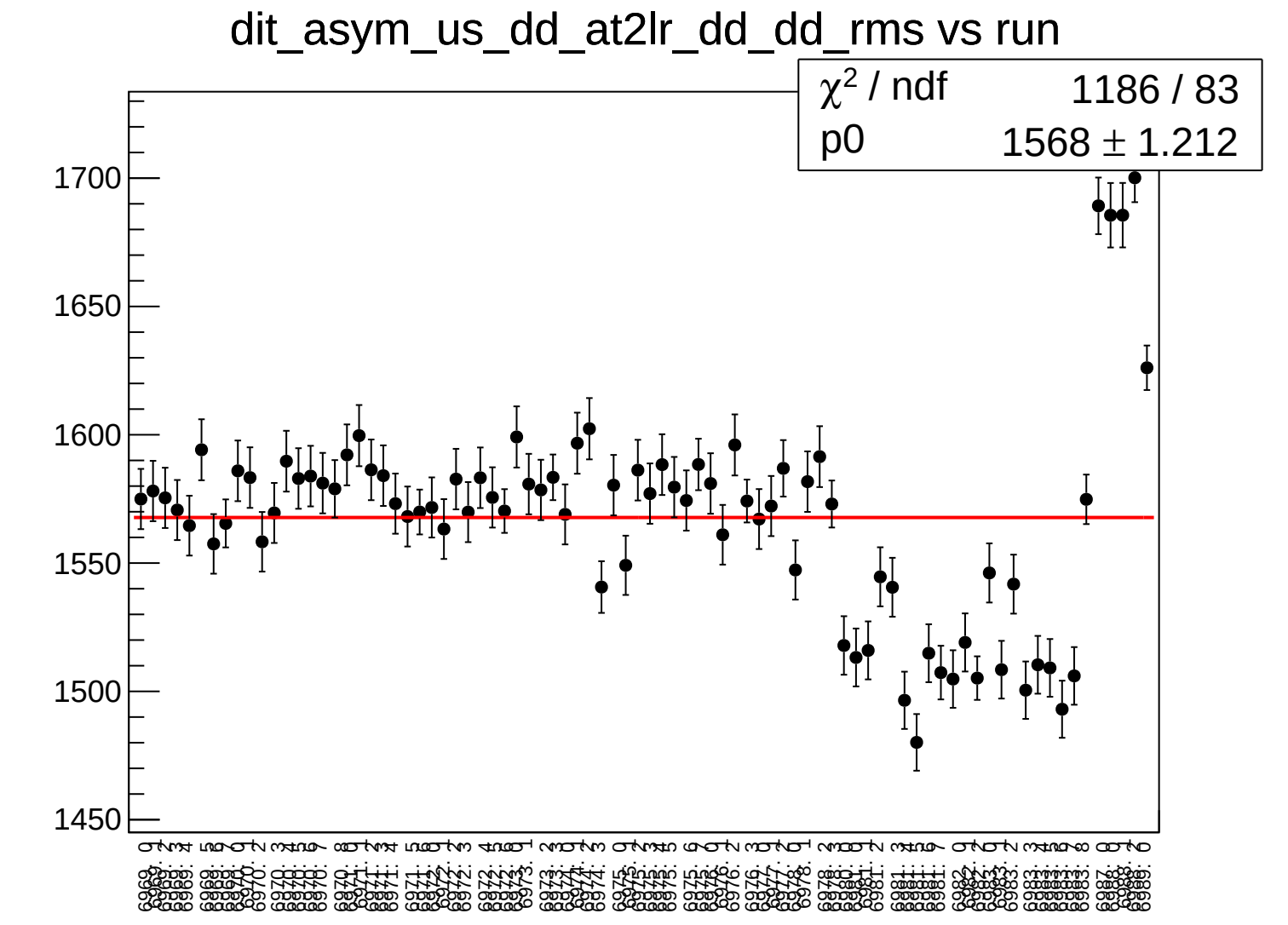

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1207 / 83
p0 1565 ± 1.21
1700
1650
1600
1550
1500
1450

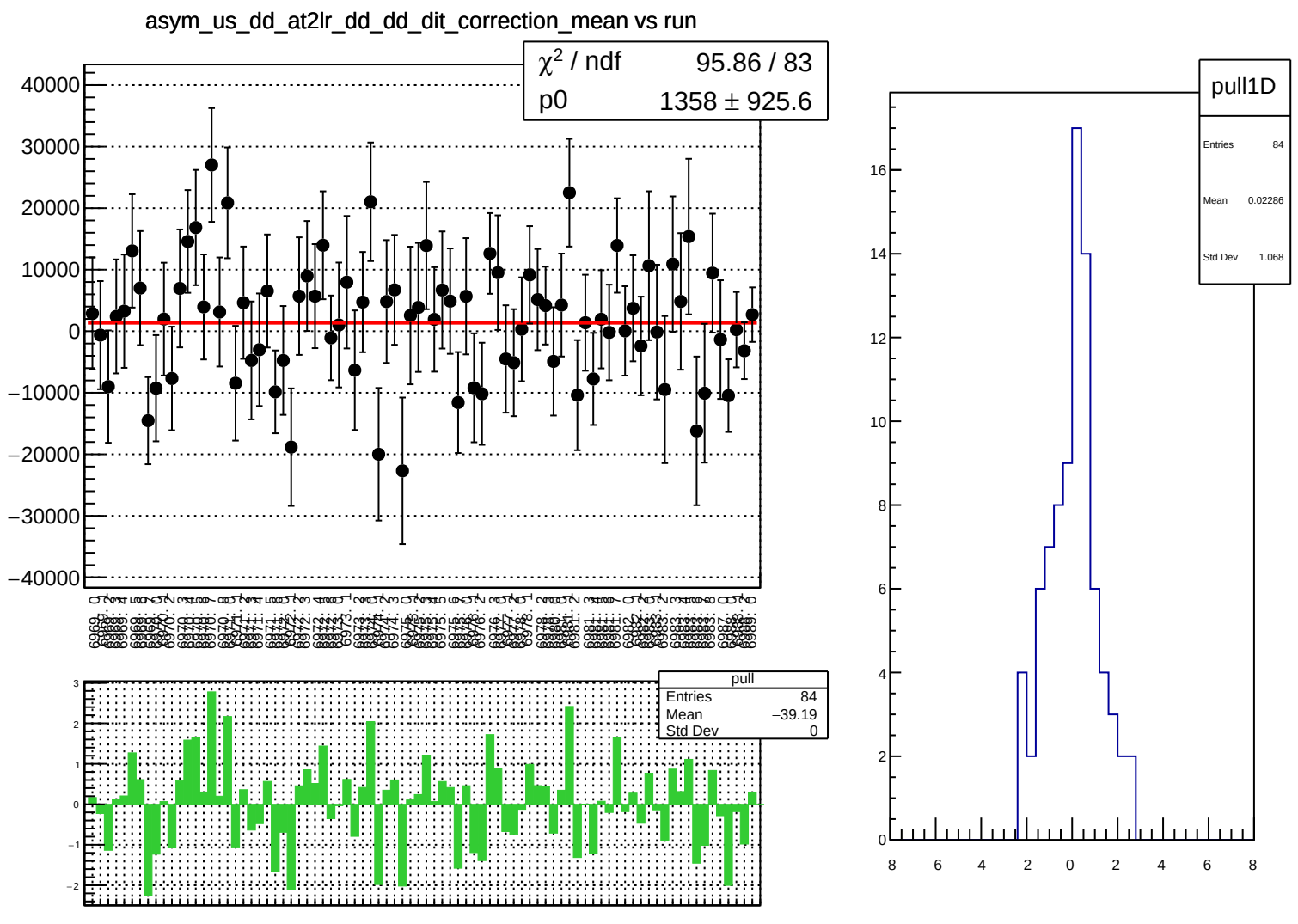

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.58 / 83
p0 1210 ± 838.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −41.34
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.02326
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

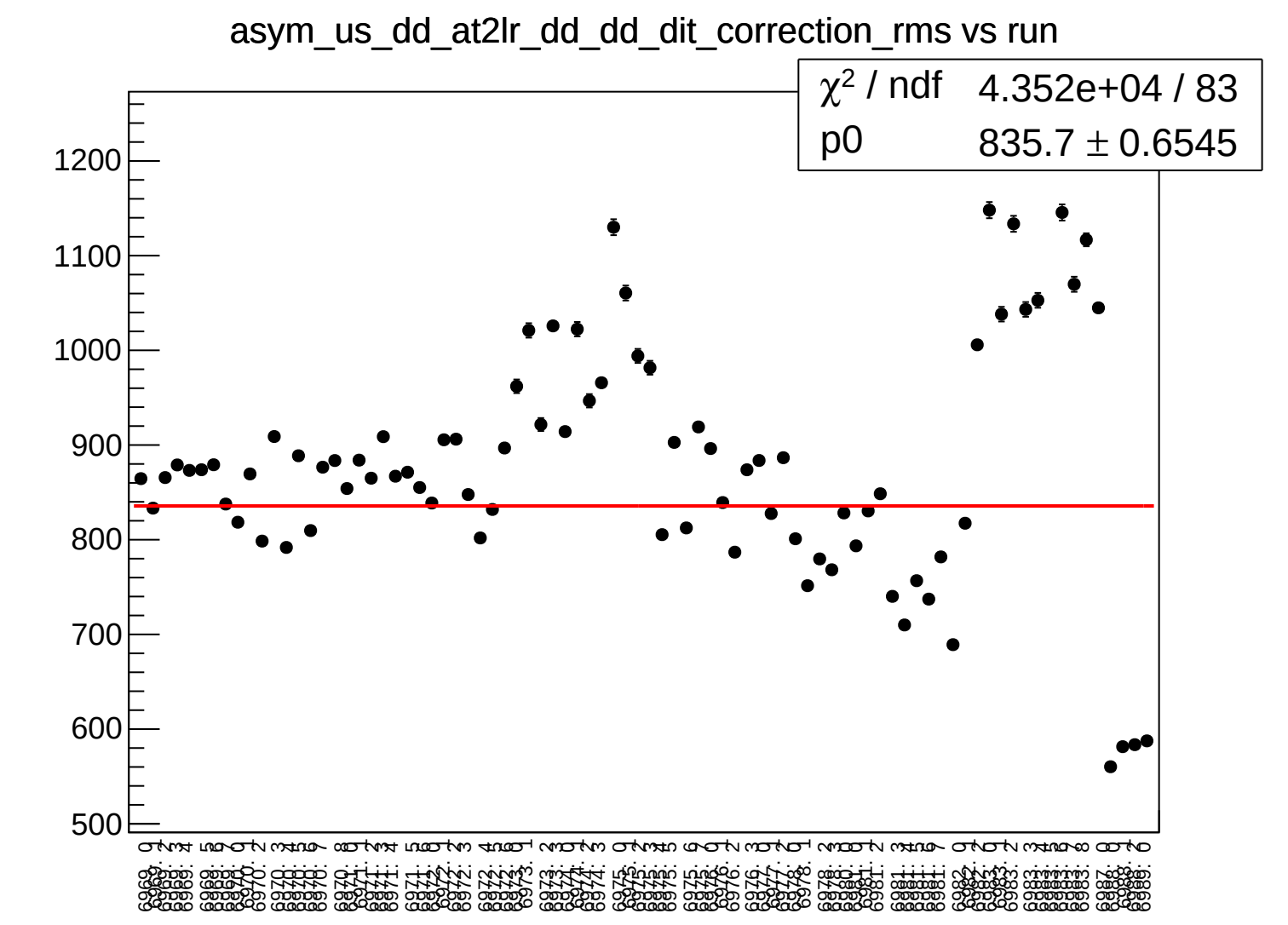

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.272e+04 / 83
p0 757.4 ± 0.5931
1100
1000
900
800
700
600
500

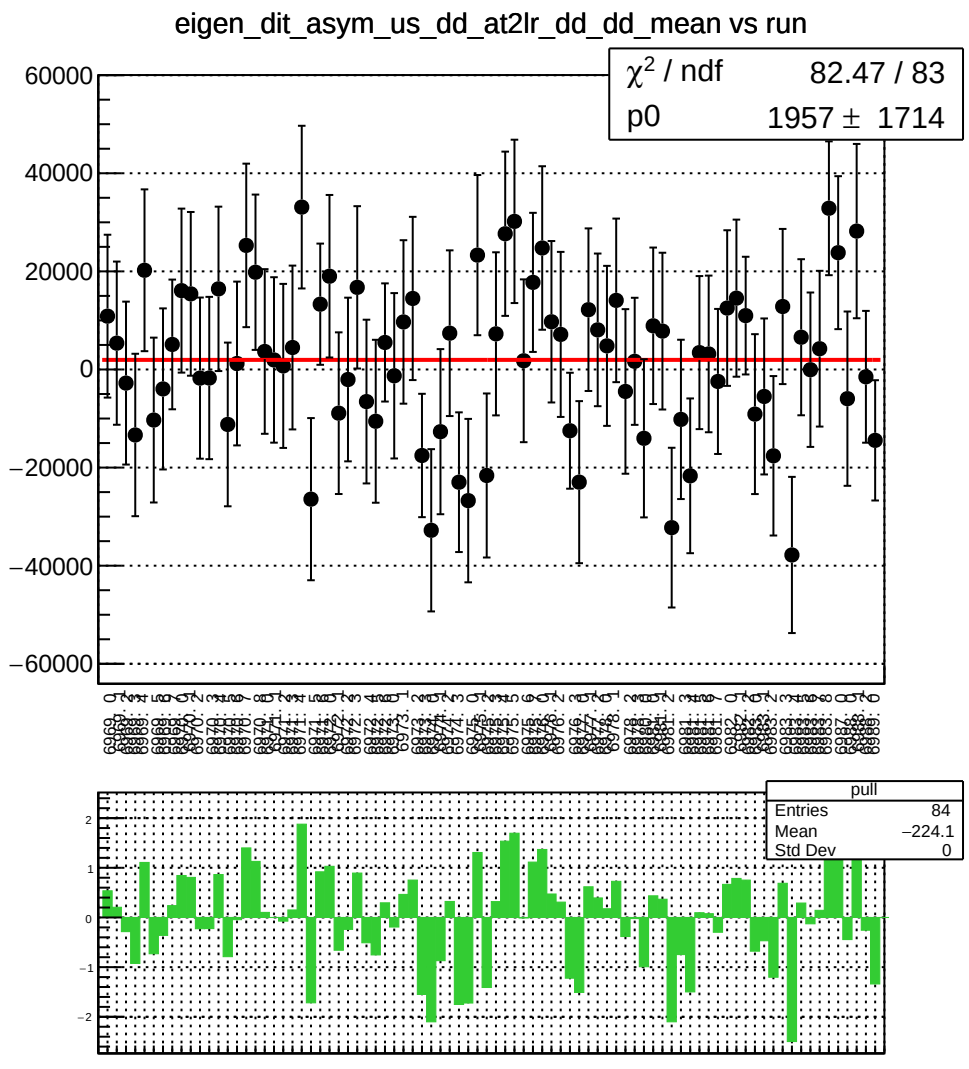

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 82.47 / 83
p0 1957 ± 1714
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −224.1
Std Dev 0
2
1
0
−1
−2

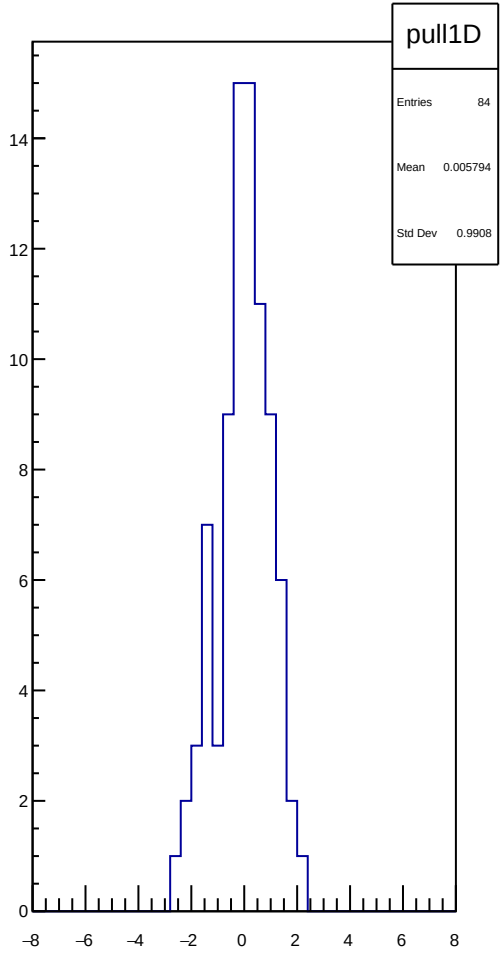

pull1D
Entries 84
Mean 0.005794
Std Dev 0.9908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

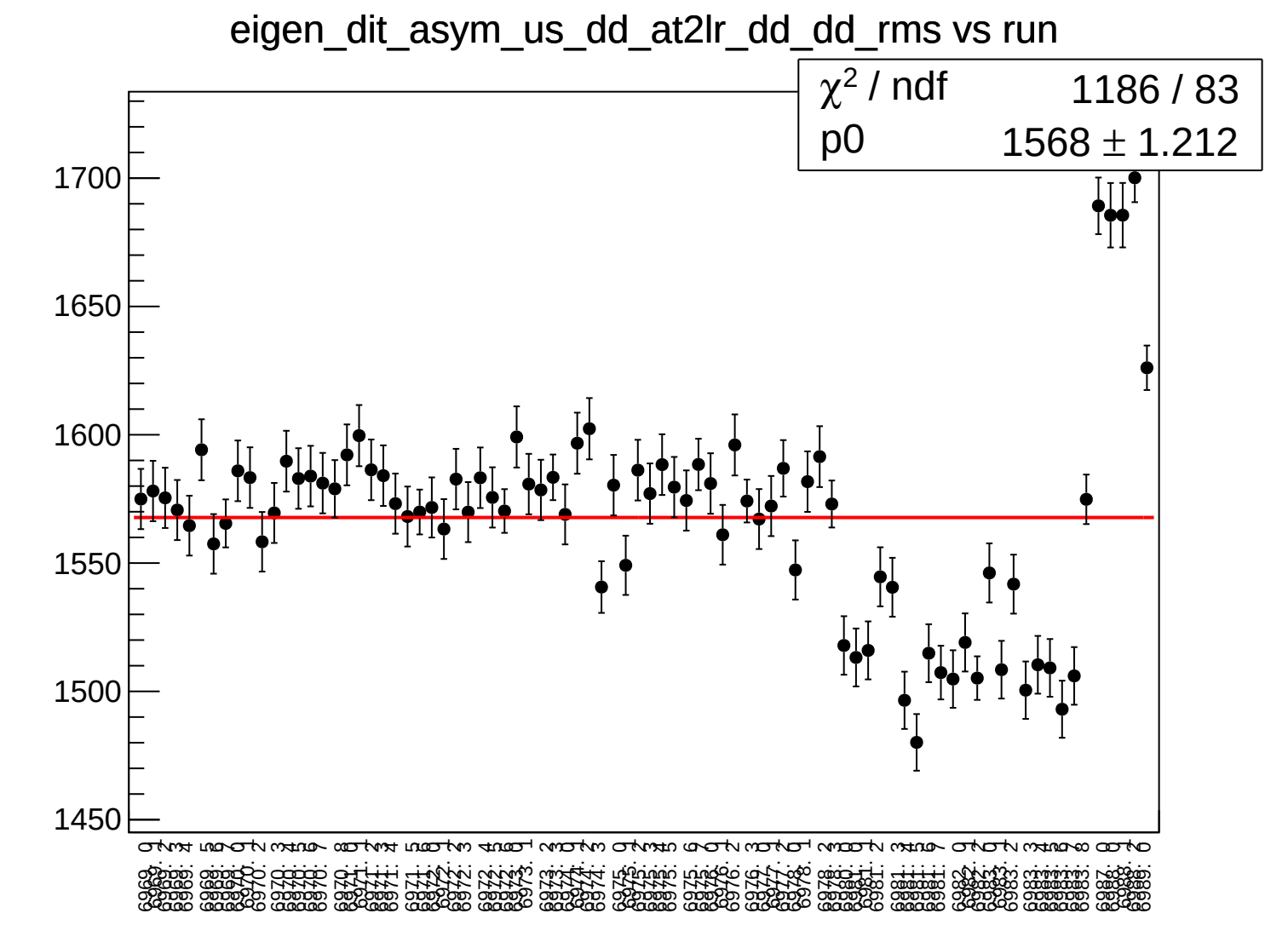

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1186 / 83
p0 1568 ± 1.212
1700
1650
1600
1550
1500
1450

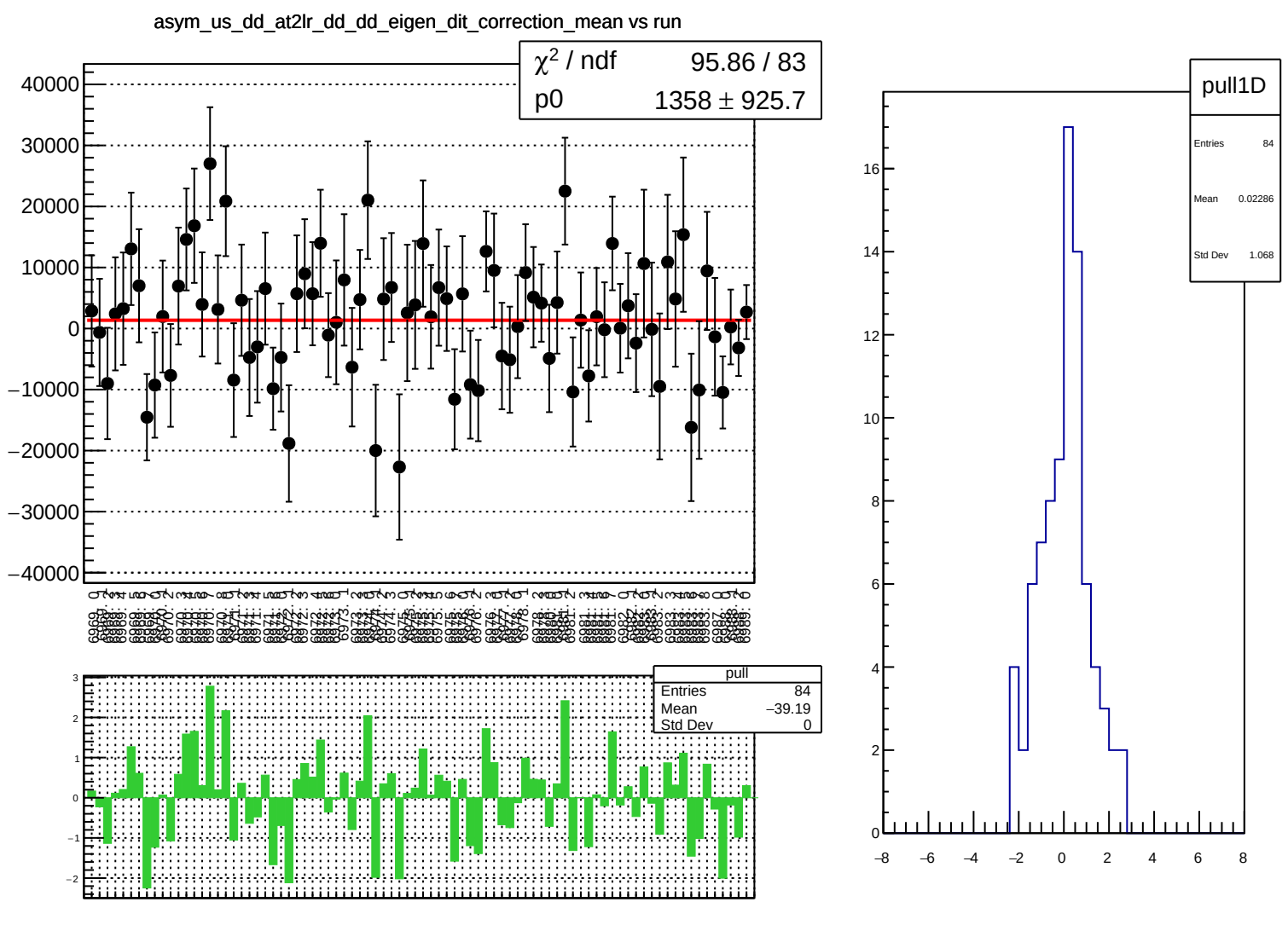

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 95.86 / 83
p0 1358 ± 925.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −39.19
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.02286
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

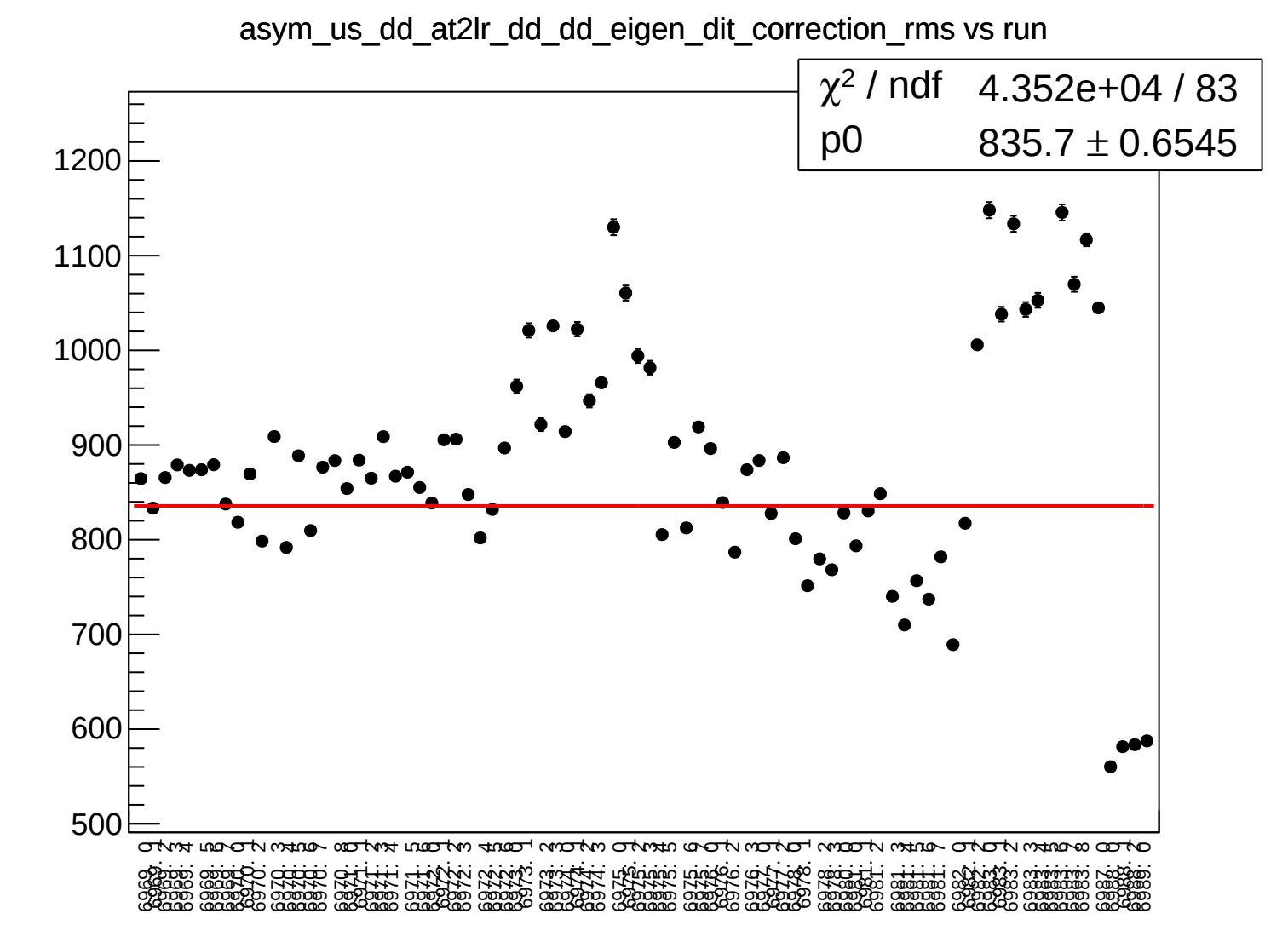

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4.352e+04 / 83
p0 835.7 ± 0.6545
1200
1100
1000
900
800
700
600
500

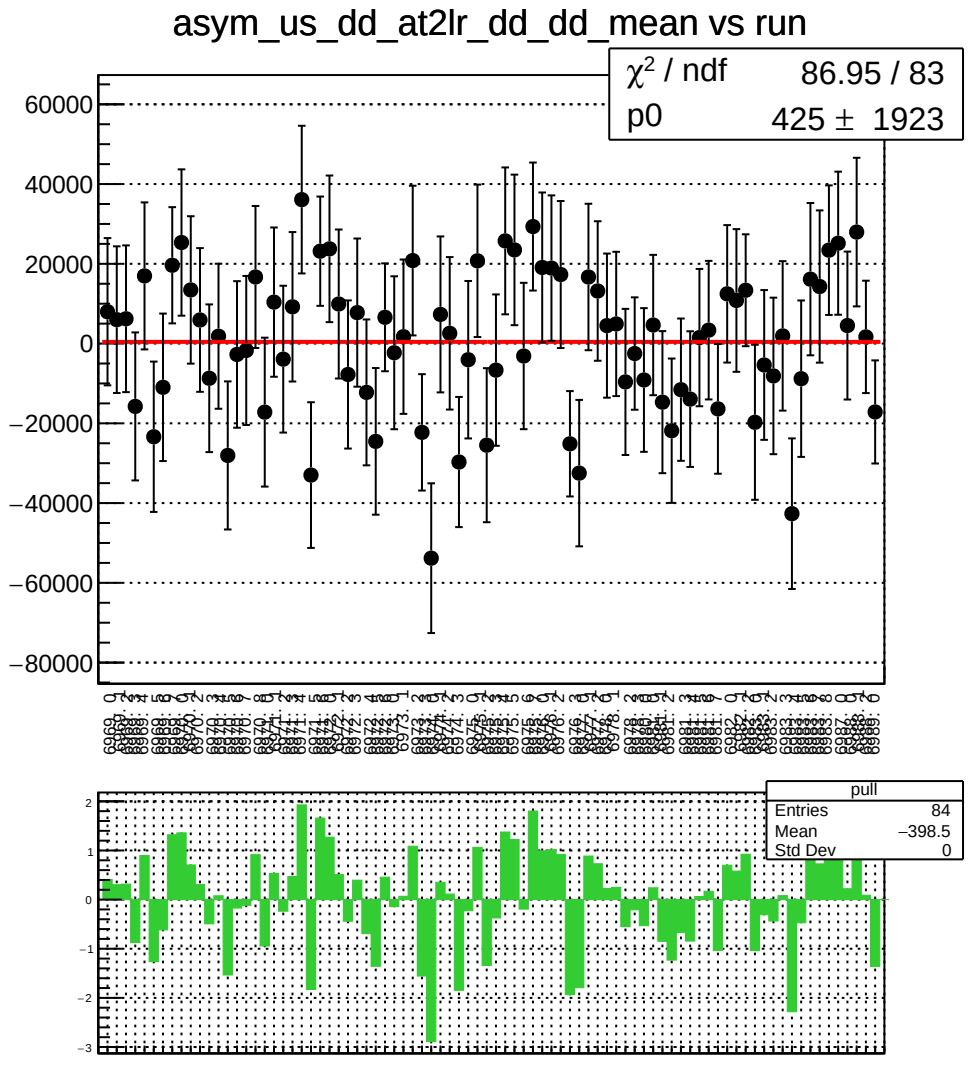

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 82.47 / 83
p0 1957 ± 1714
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −224.1
Std Dev 0
2
1
0
−1
−2

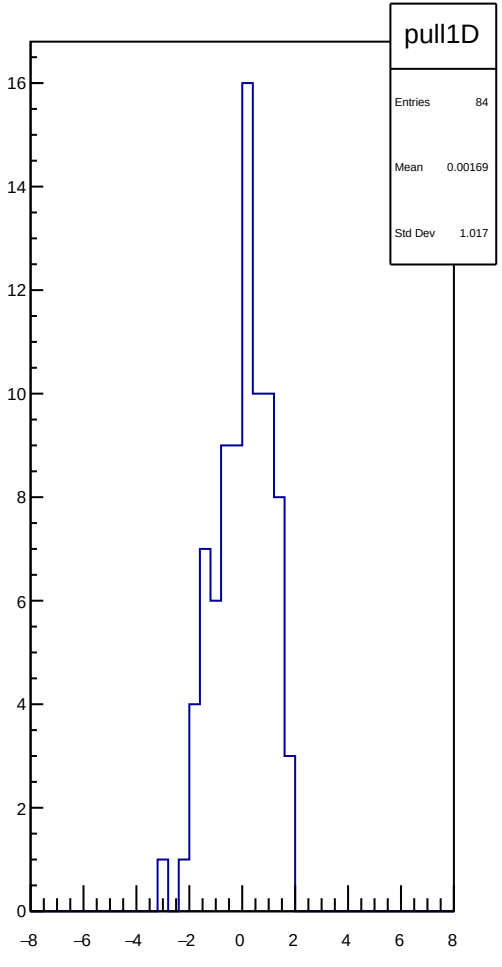

pull1D
Entries 84
Mean 0.005794
Std Dev 0.9908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

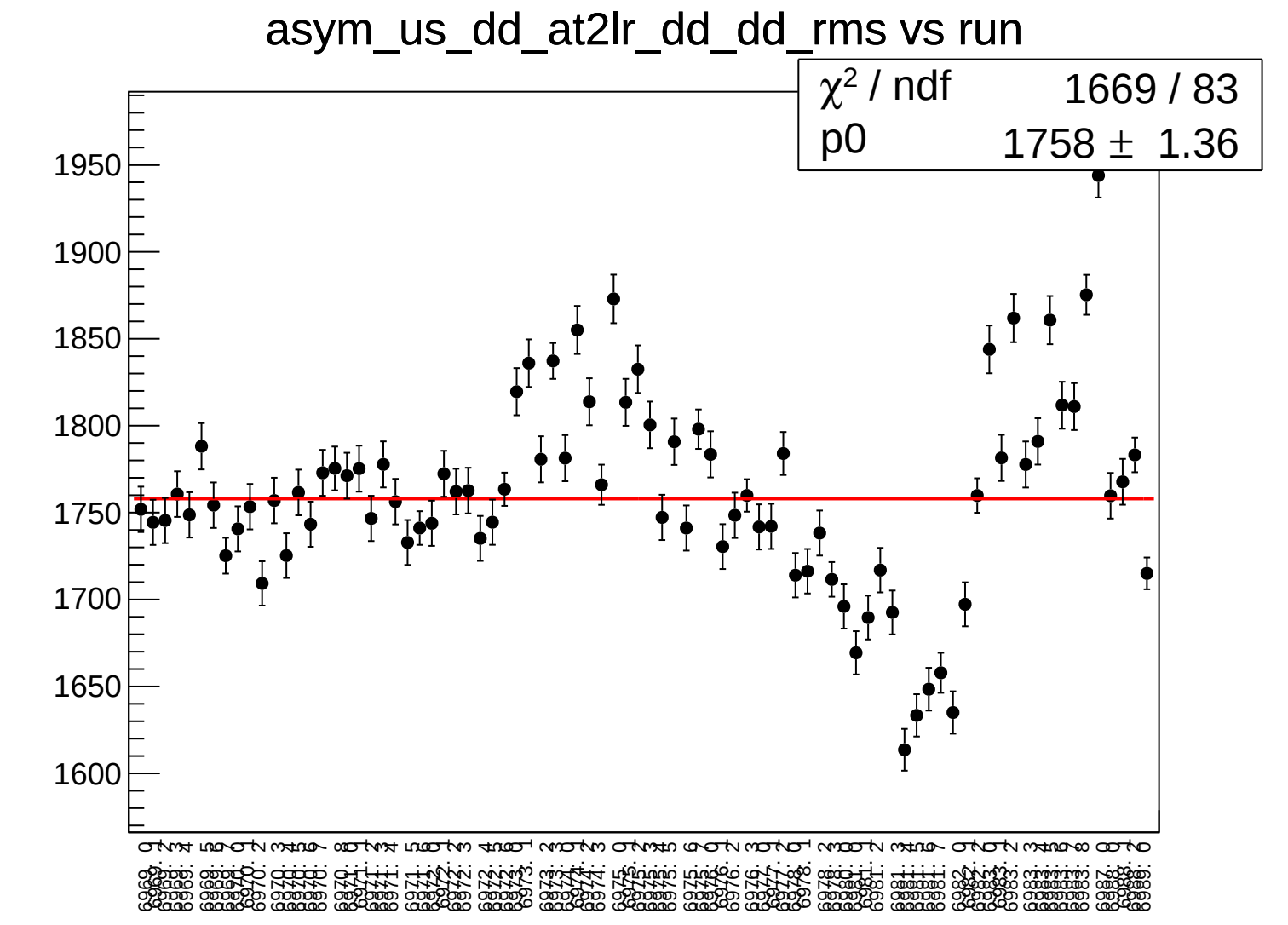

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1186 / 83
p0 1568 ± 1.212
1700
1650
1600
1550
1500
1450

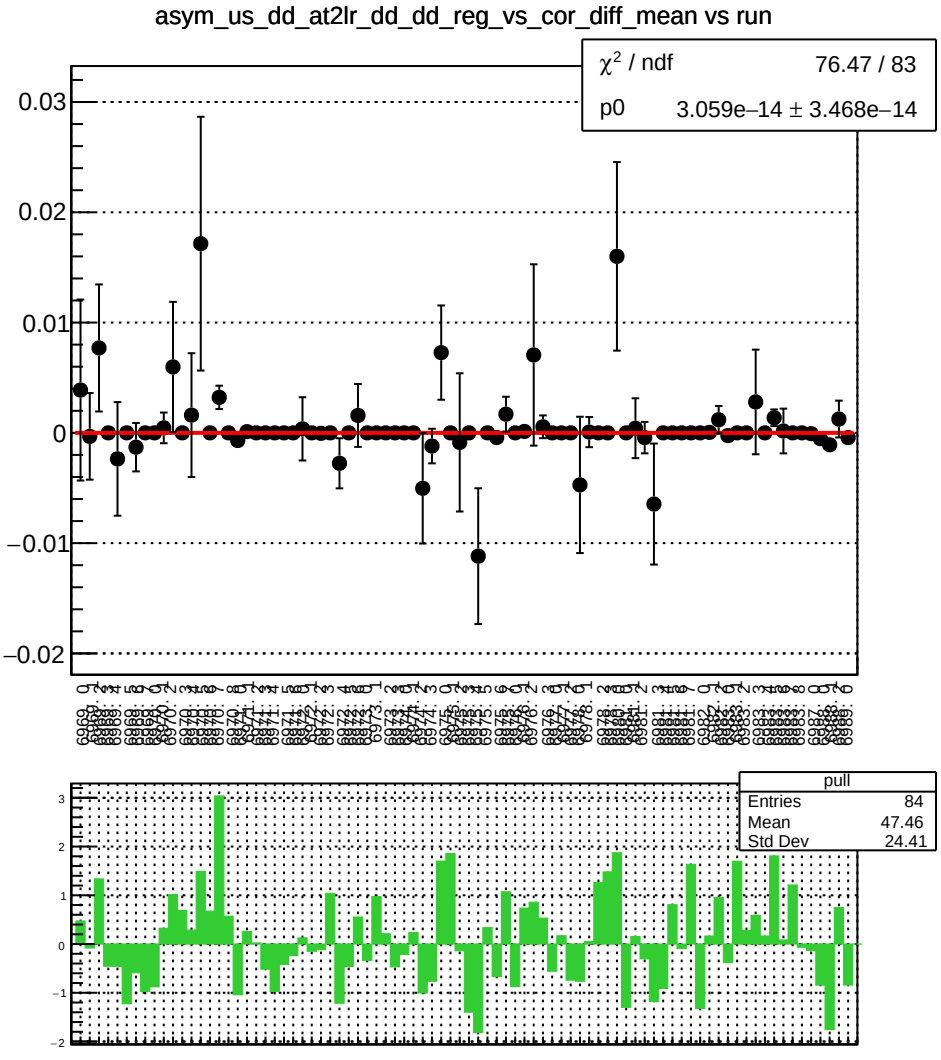

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.86 / 83
p0 1358 ± 925.7
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −39.19
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.02286
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

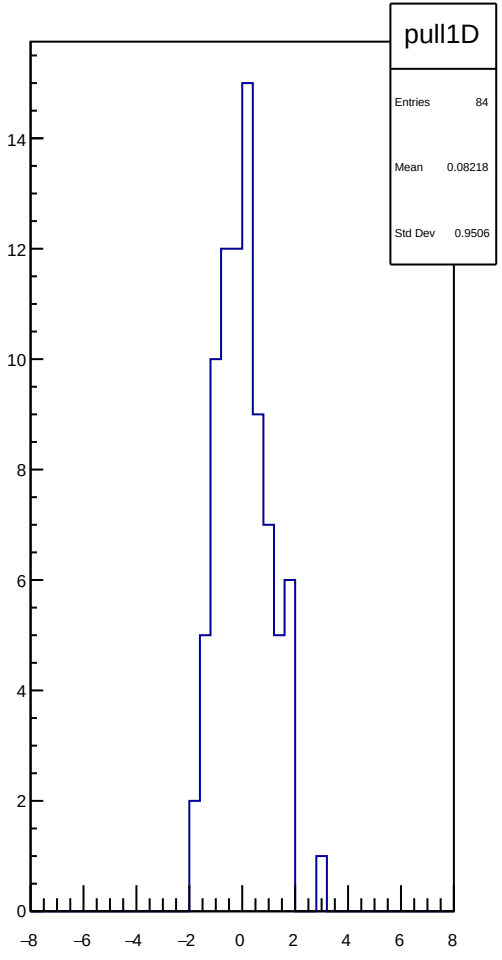

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.352e+04 / 83
p0 835.7 ± 0.6545
1200
1100
1000
900
800
700
600
500

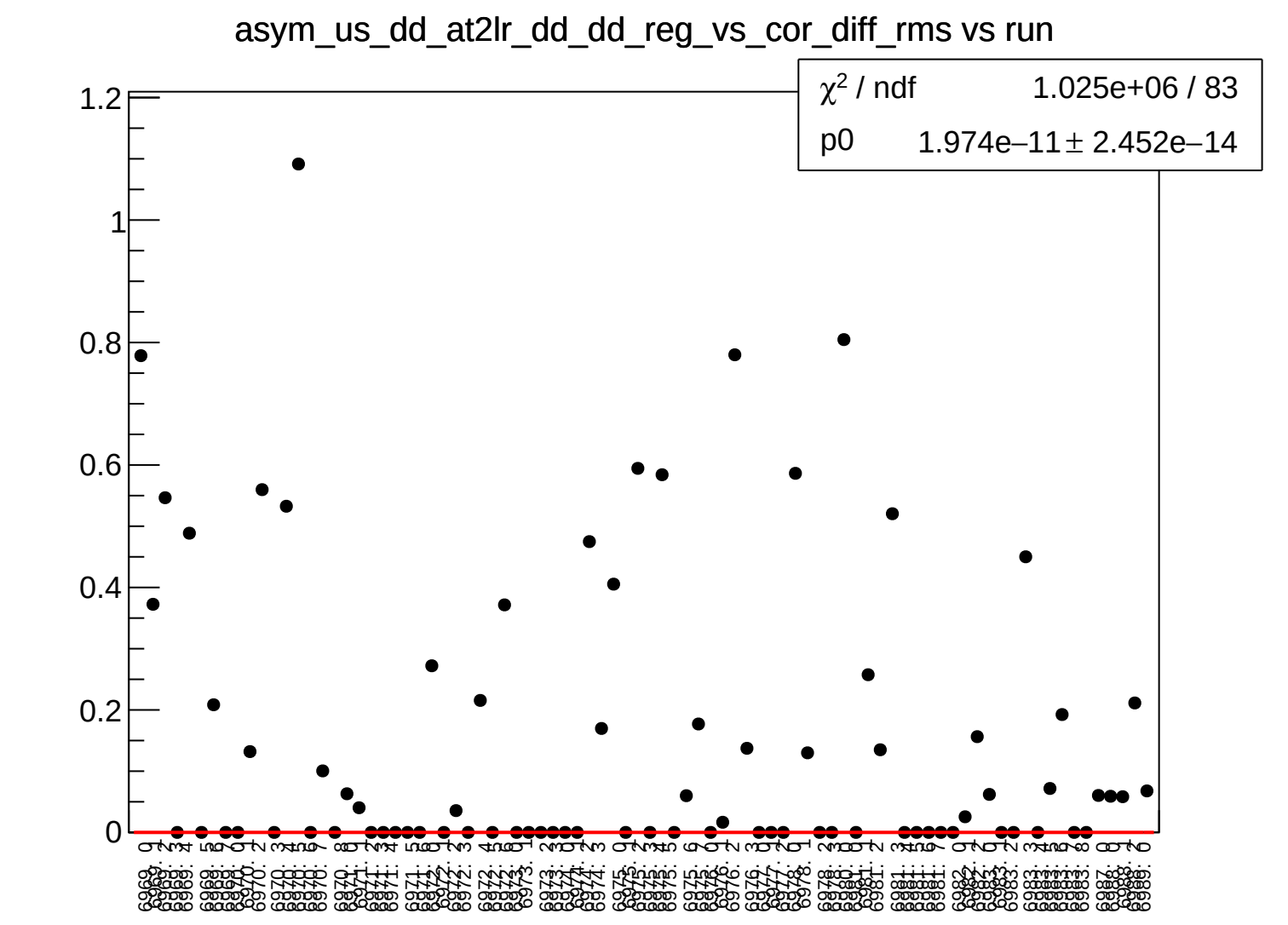

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.95 / 83
p0 425 ± 1923
pull
Entries 84
Mean −398.5
Std Dev 0

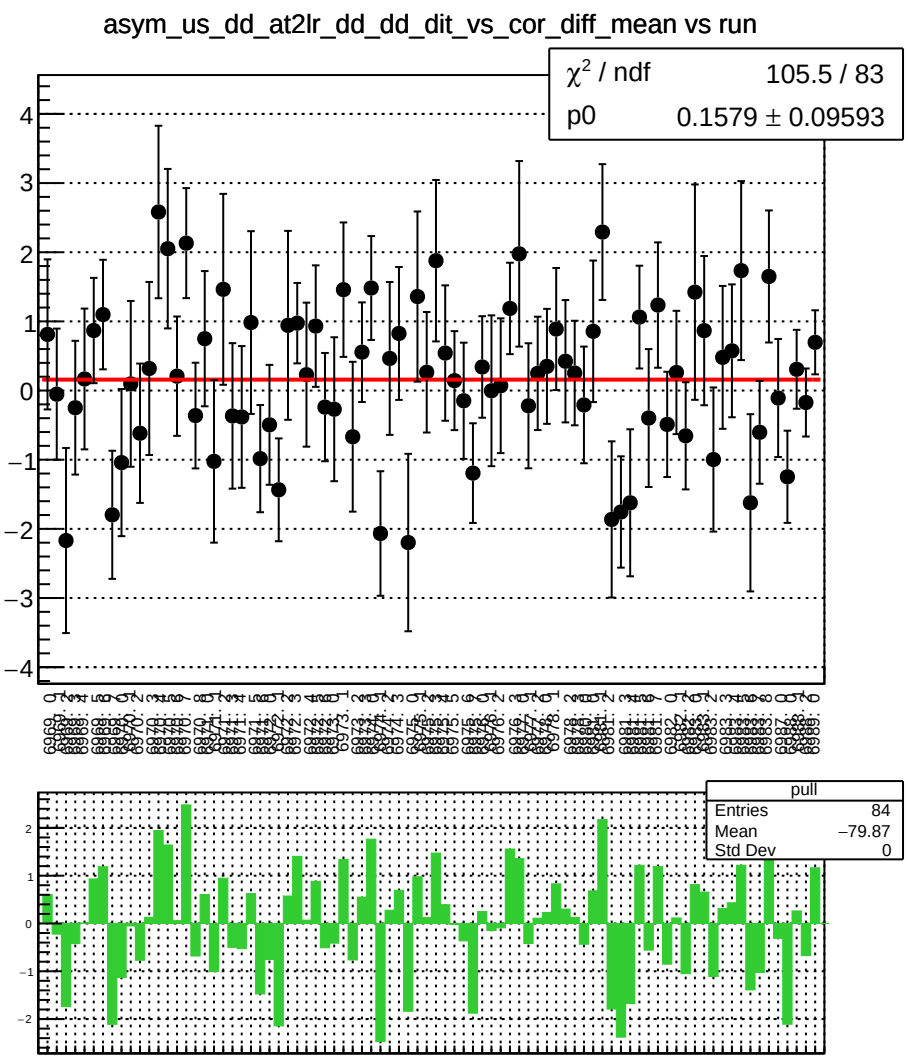

pull1D
Entries 84
Mean 0.00169
Std Dev 1.017

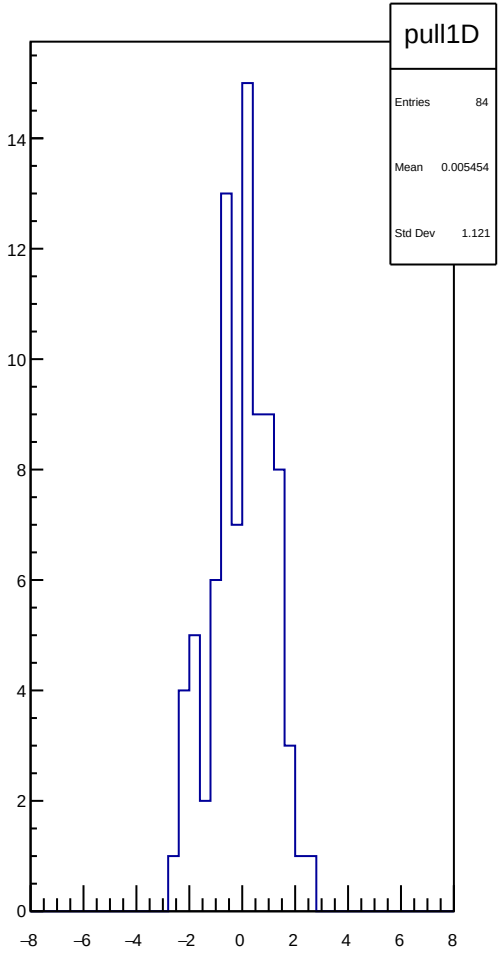

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1669 / 83
p0 1758 ± 1.36
1950
1900
1850
1800
1750
1700
1650
1600

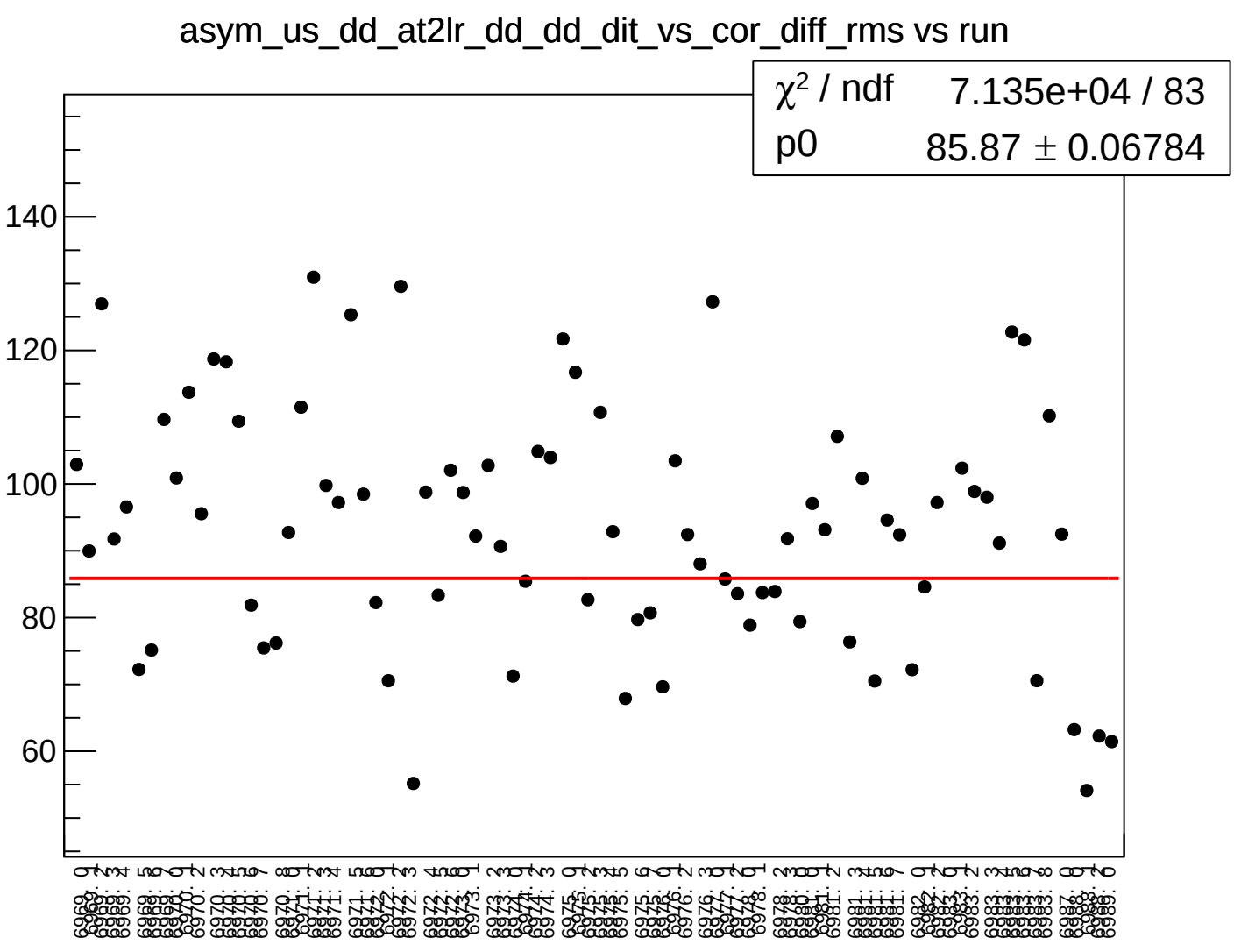

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.47 / 83
p0 3.059e−14 ± 3.468e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 47.46
Std Dev 24.41
3
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.08218
Std Dev 0.9506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

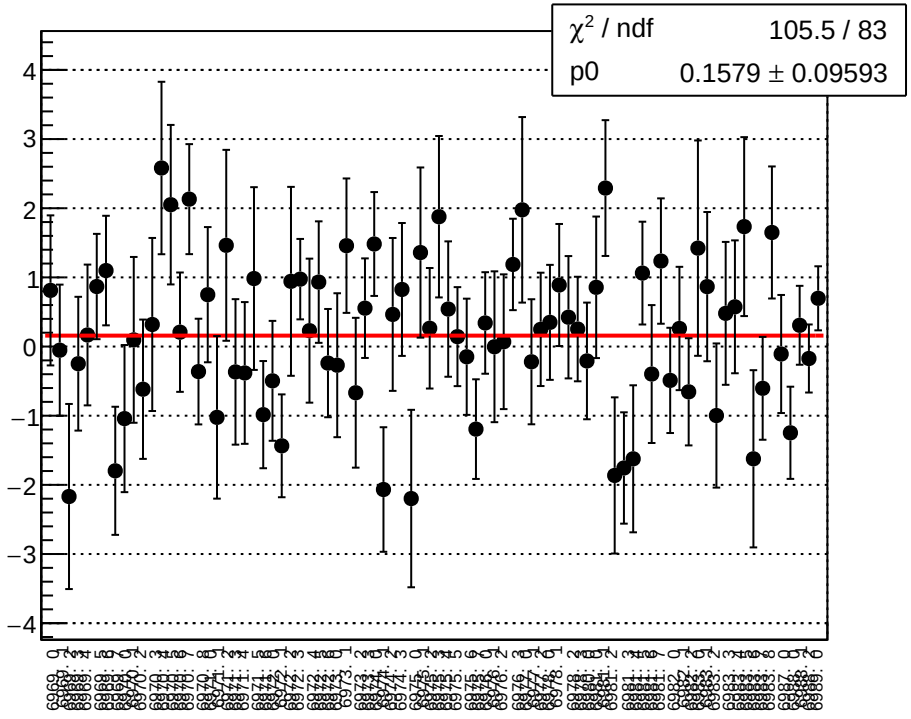

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 83
p0 1.974e−11 ± 2.452e−14
1.2
1
0.8
0.6
0.4
0.2
0

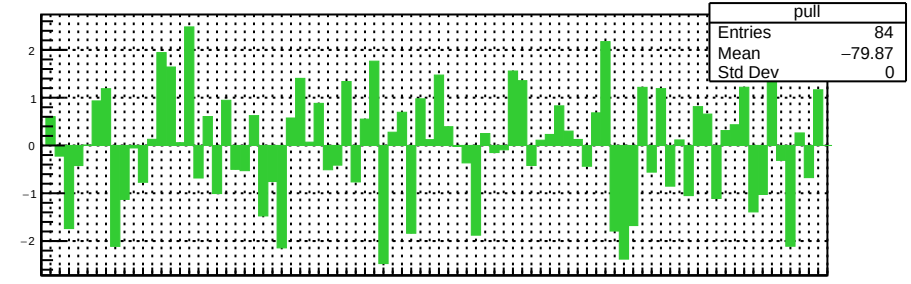

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 83
p0 0.1579 ± 0.09593
pull
Entries 84
Mean −79.87
Std Dev 0

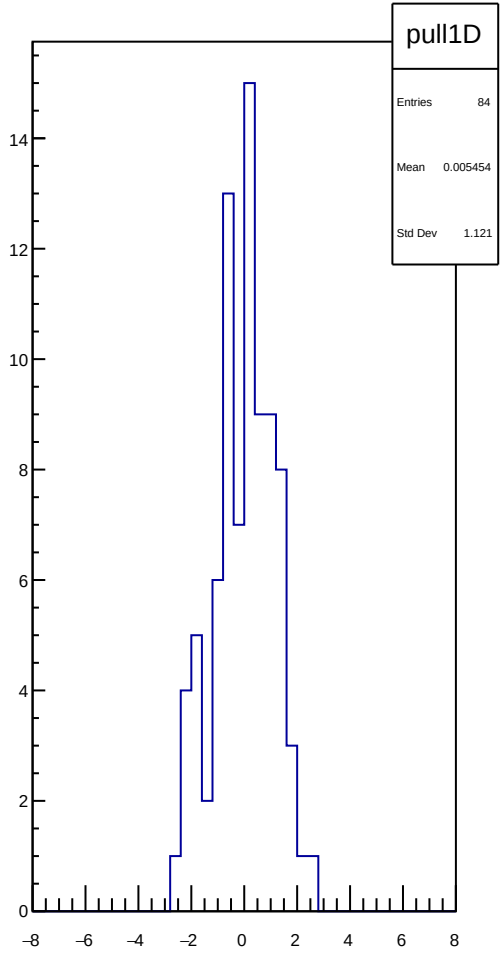

pull1D
Entries 84
Mean 0.005454
Std Dev 1.121

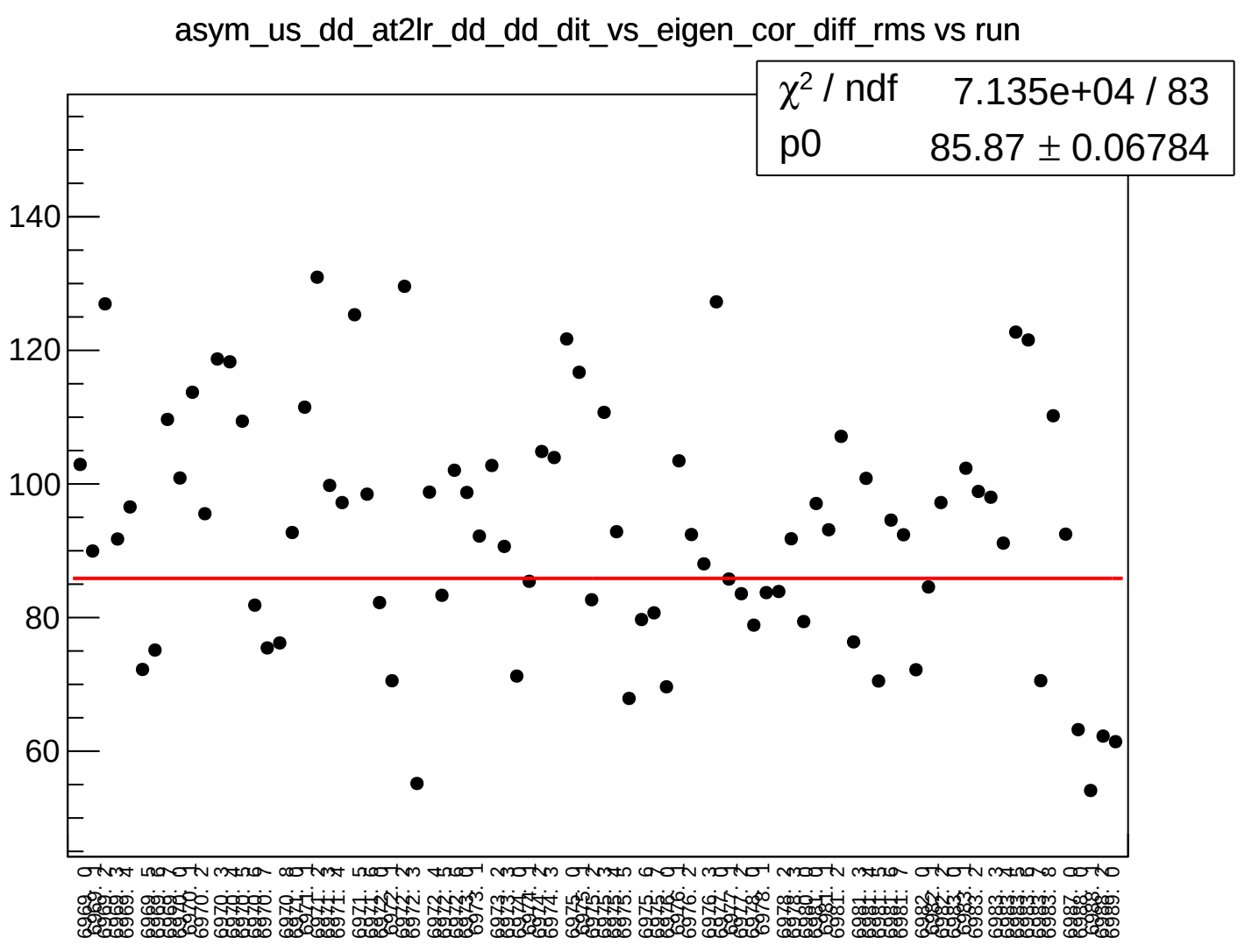

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.135e+04 / 83
p0 85.87 ± 0.06784
140
120
100
80
60

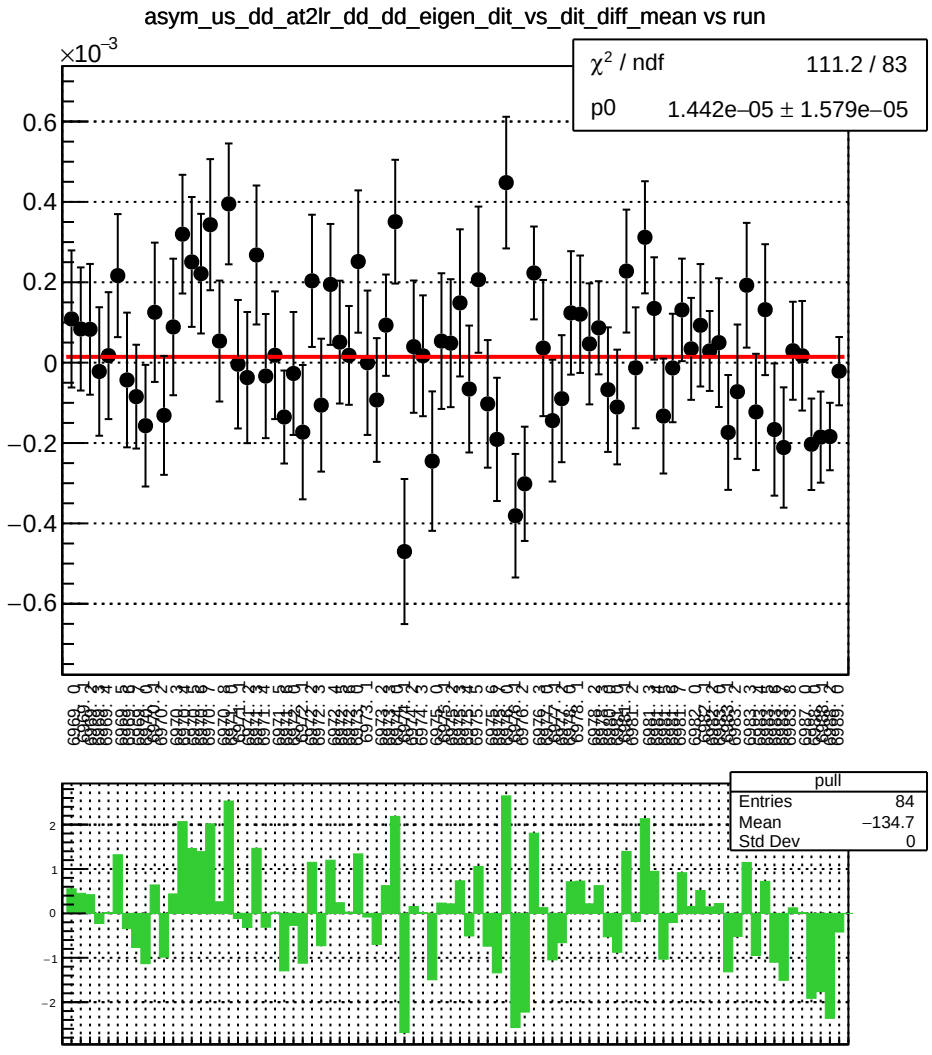
asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run

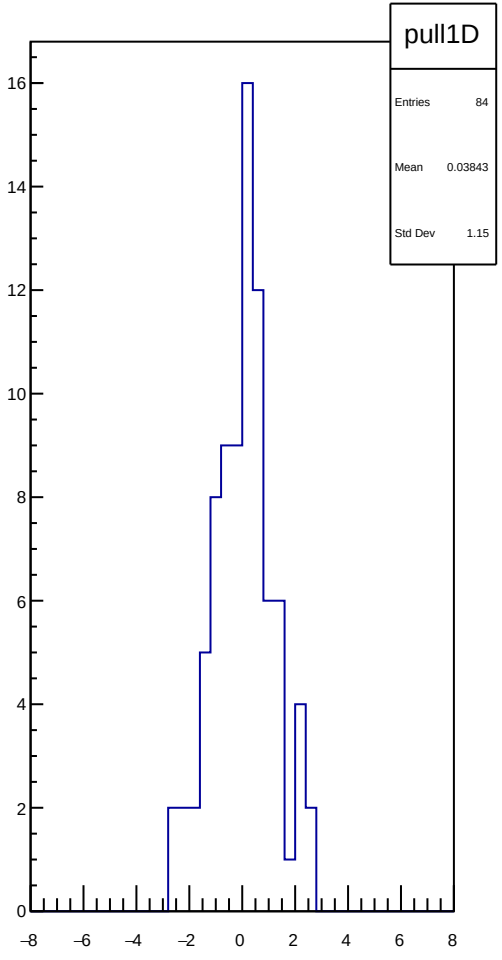


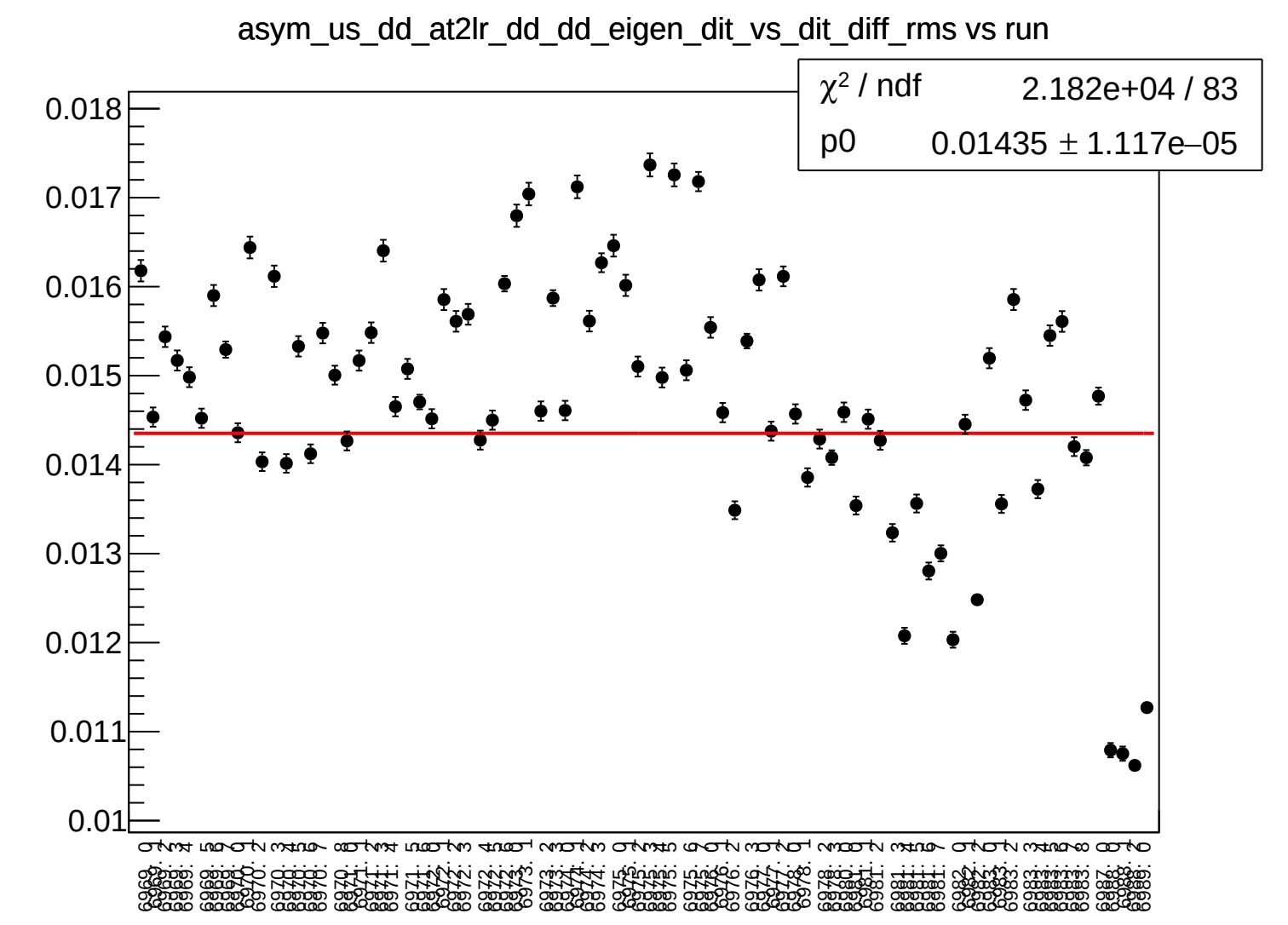


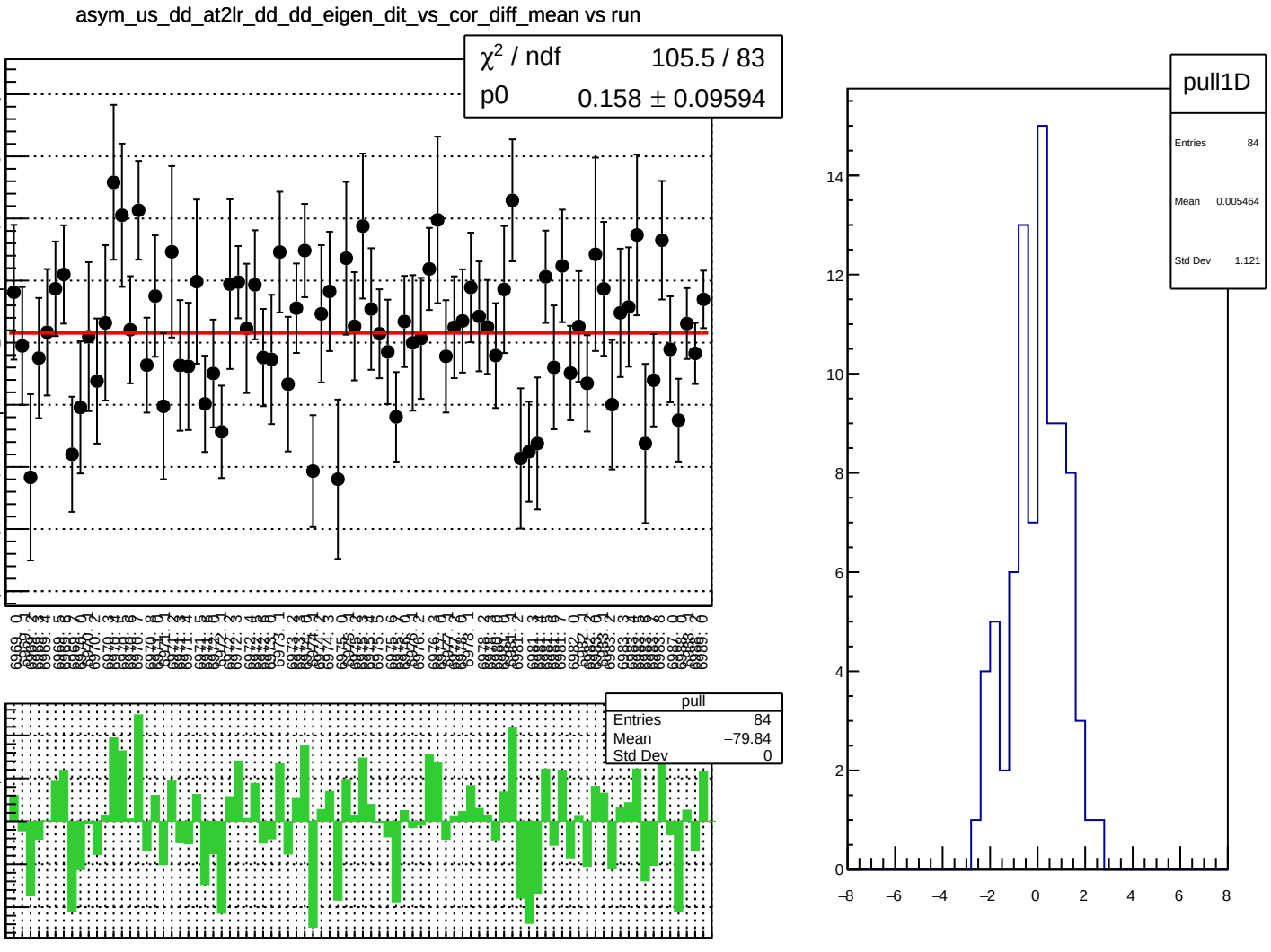


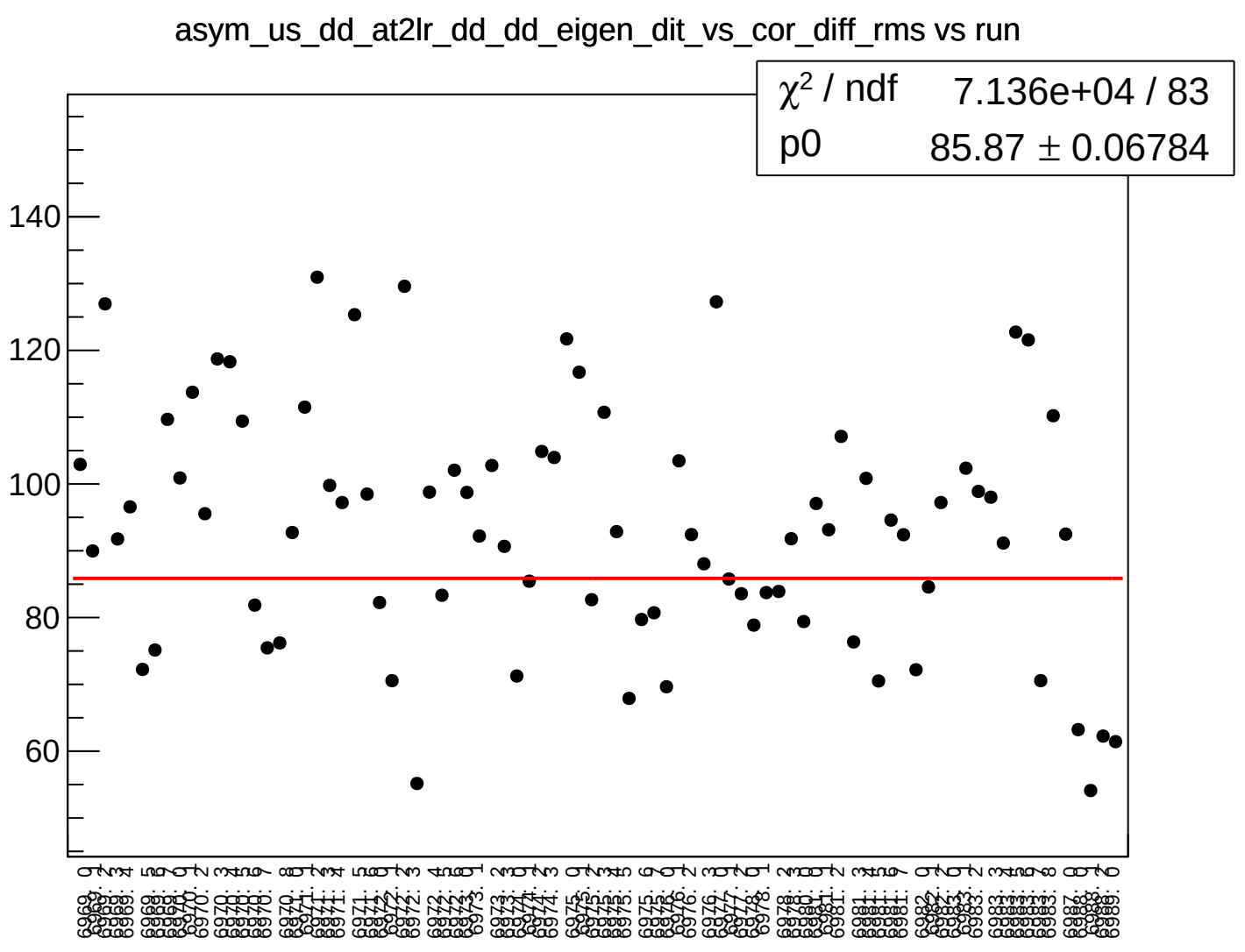

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.135e+04 / 83
p0 85.87 ± 0.06784
140
120
100
80
60

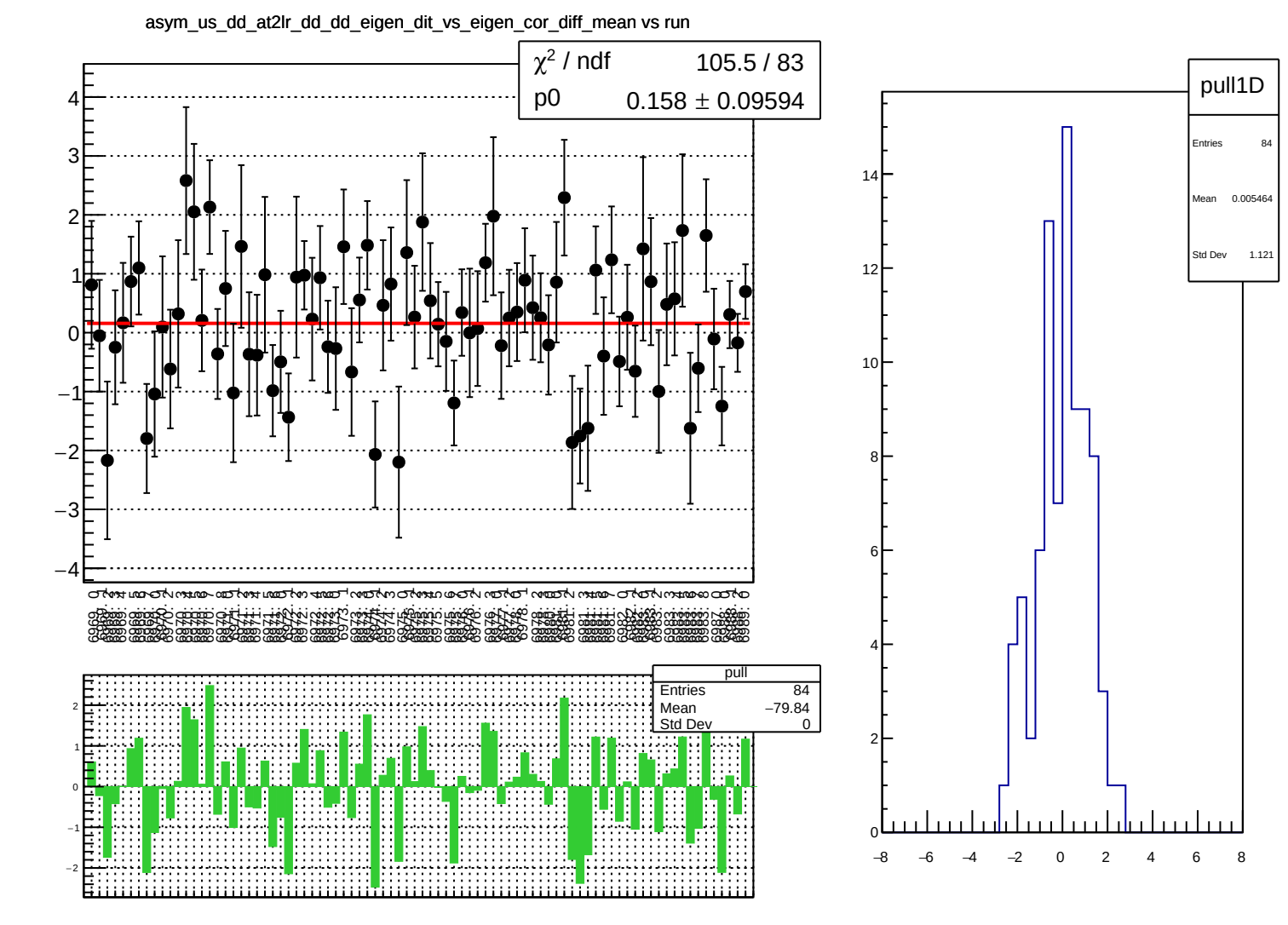

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.2 / 83
p0 1.442e−05 ± 1.579e−05
pull
Entries 84
Mean −134.7
Std Dev 0

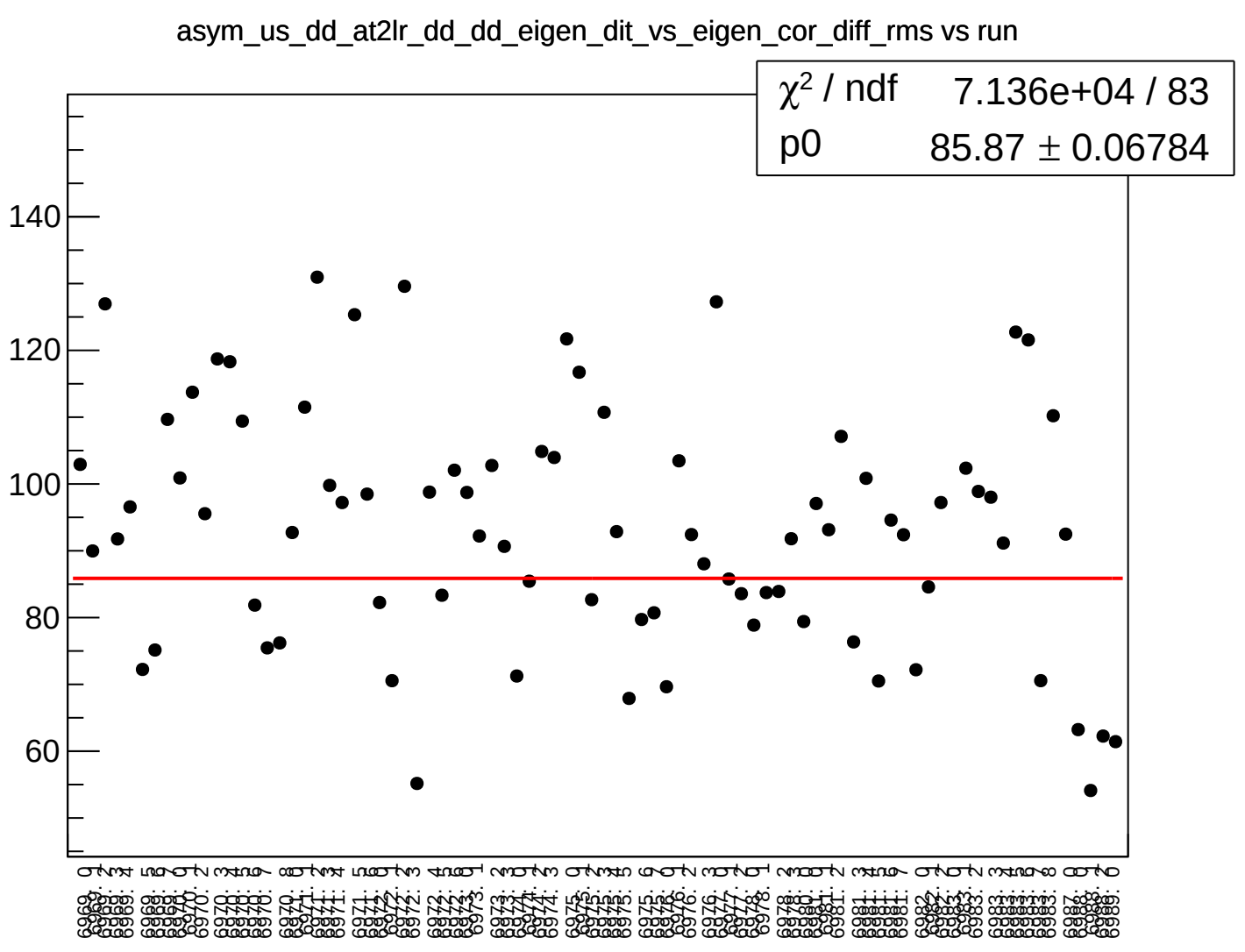

pull1D
Entries 84
Mean 0.03843
Std Dev 1.15

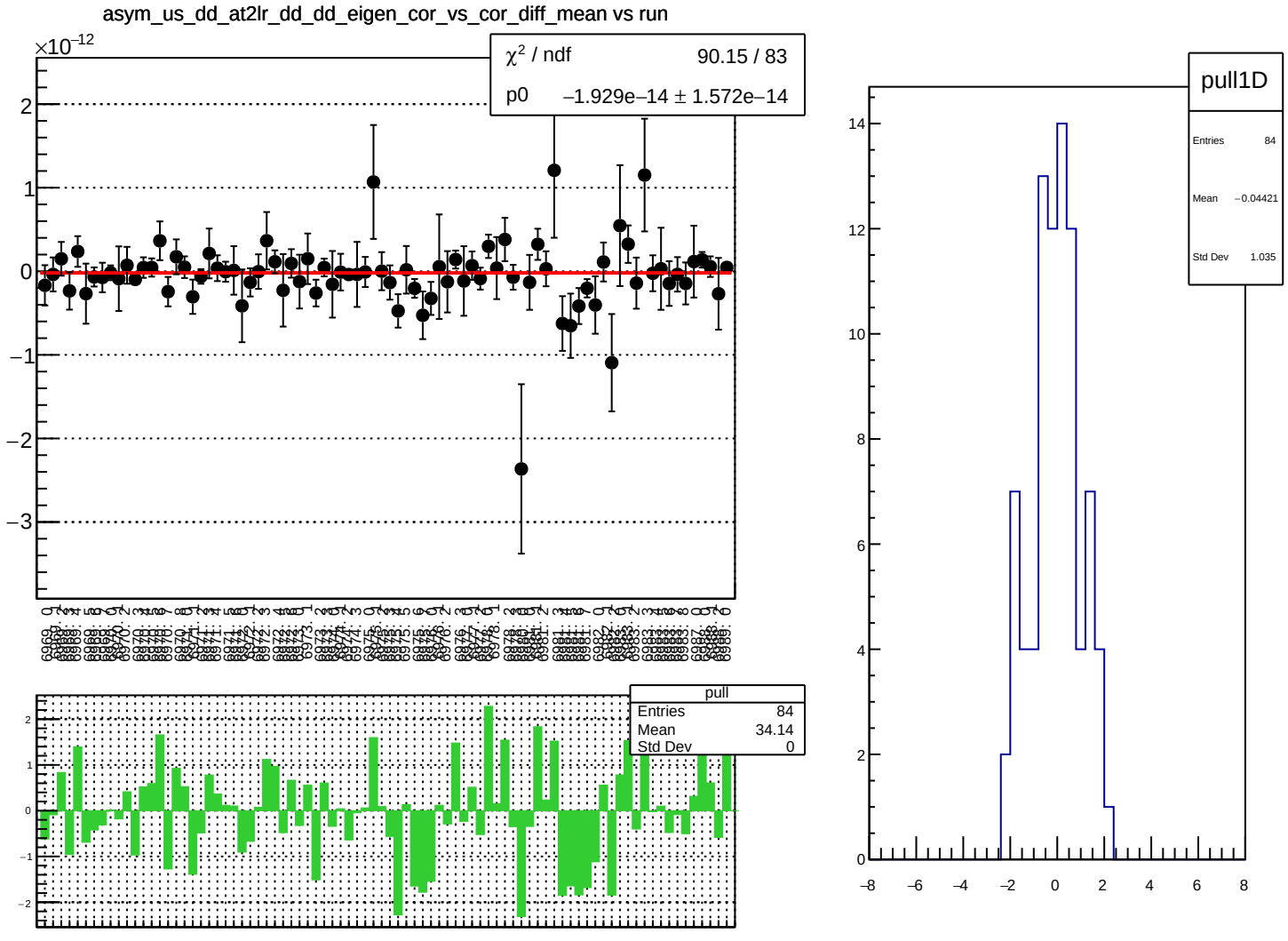

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.182e+04 / 83
p0 0.01435 ± 1.117e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

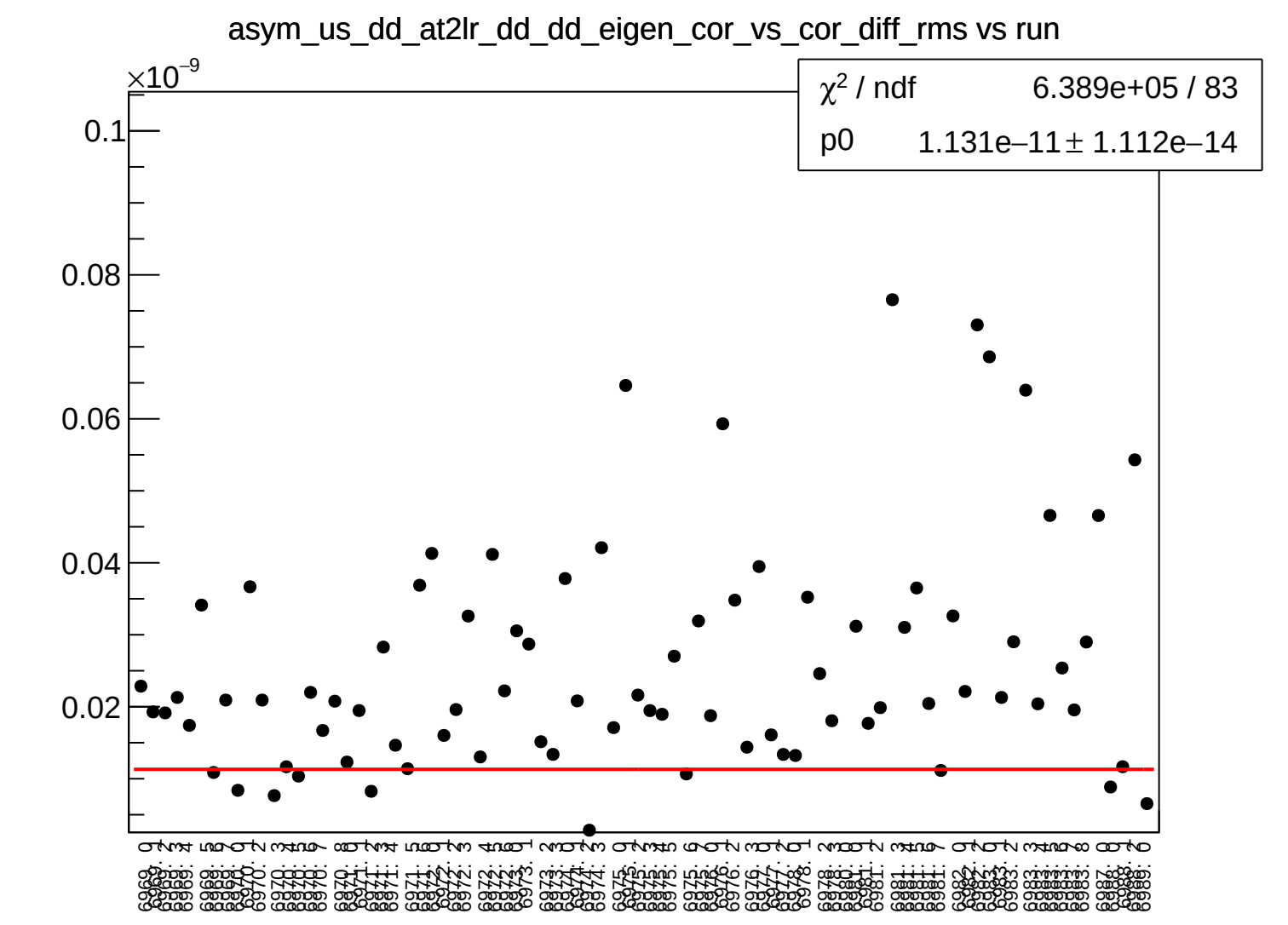

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 83
p0 0.158 ± 0.09594
pull
Entries 84
Mean −79.84
Std Dev 0
pull1D
Entries 84
Mean 0.005464
Std Dev 1.121

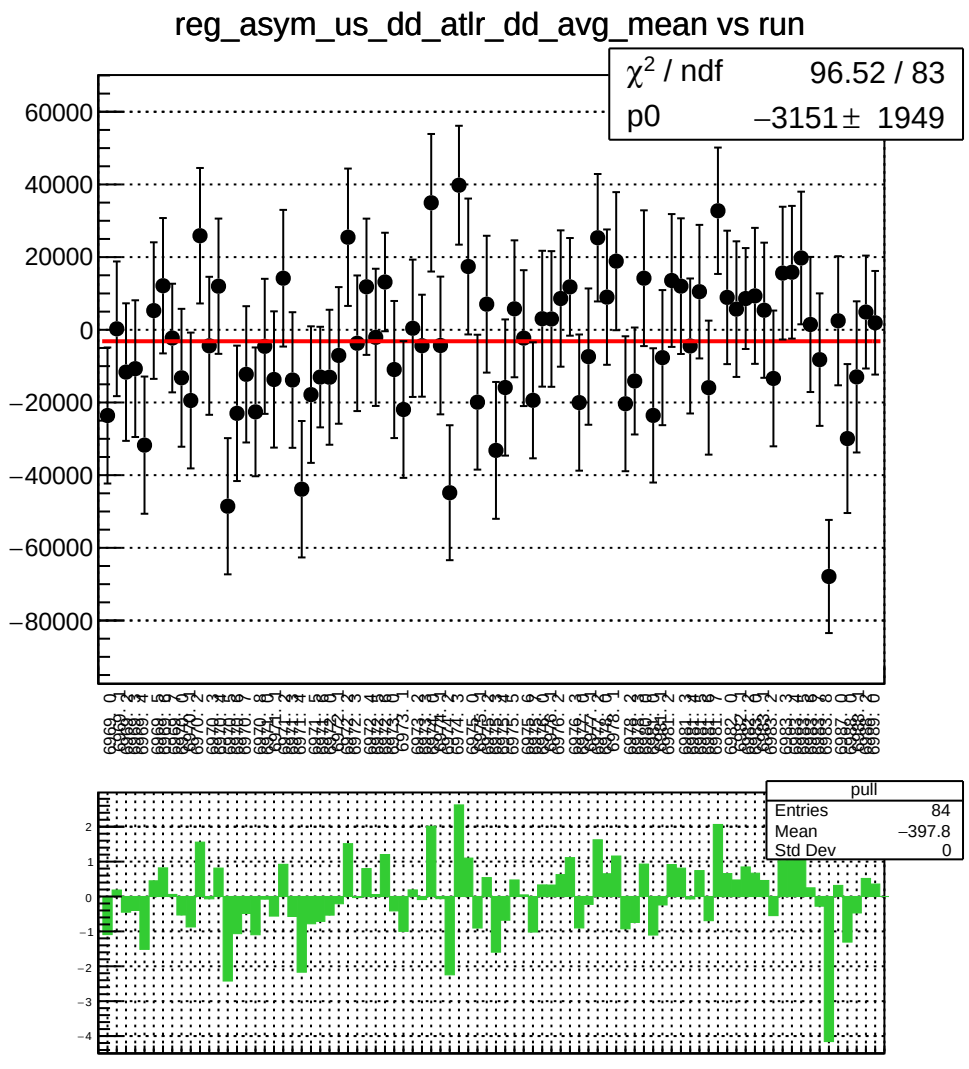

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.136e+04 / 83
p0 85.87 ± 0.06784
140
120
100
80
60

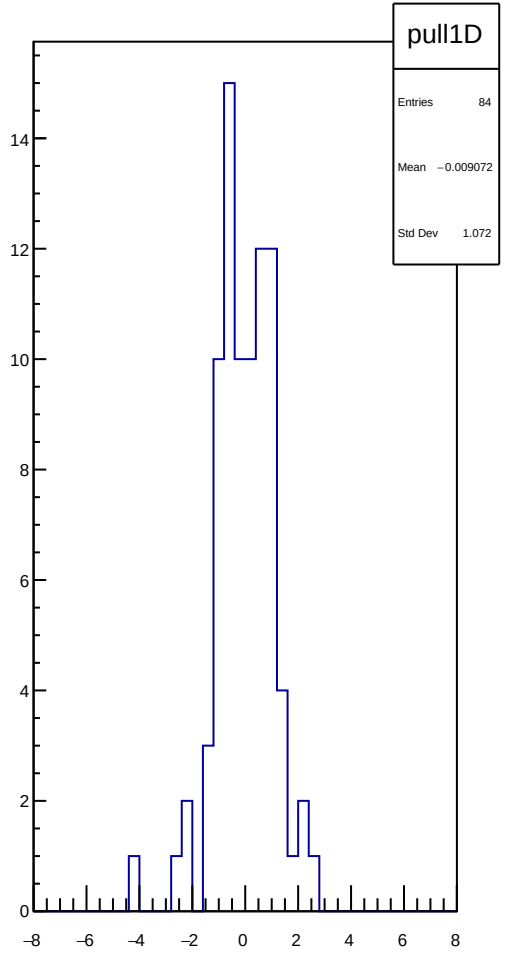

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 83
p0 0.158 ± 0.09594
pull
Entries 84
Mean −79.84
Std Dev 0
pull1D
Entries 84
Mean 0.005464
Std Dev 1.121

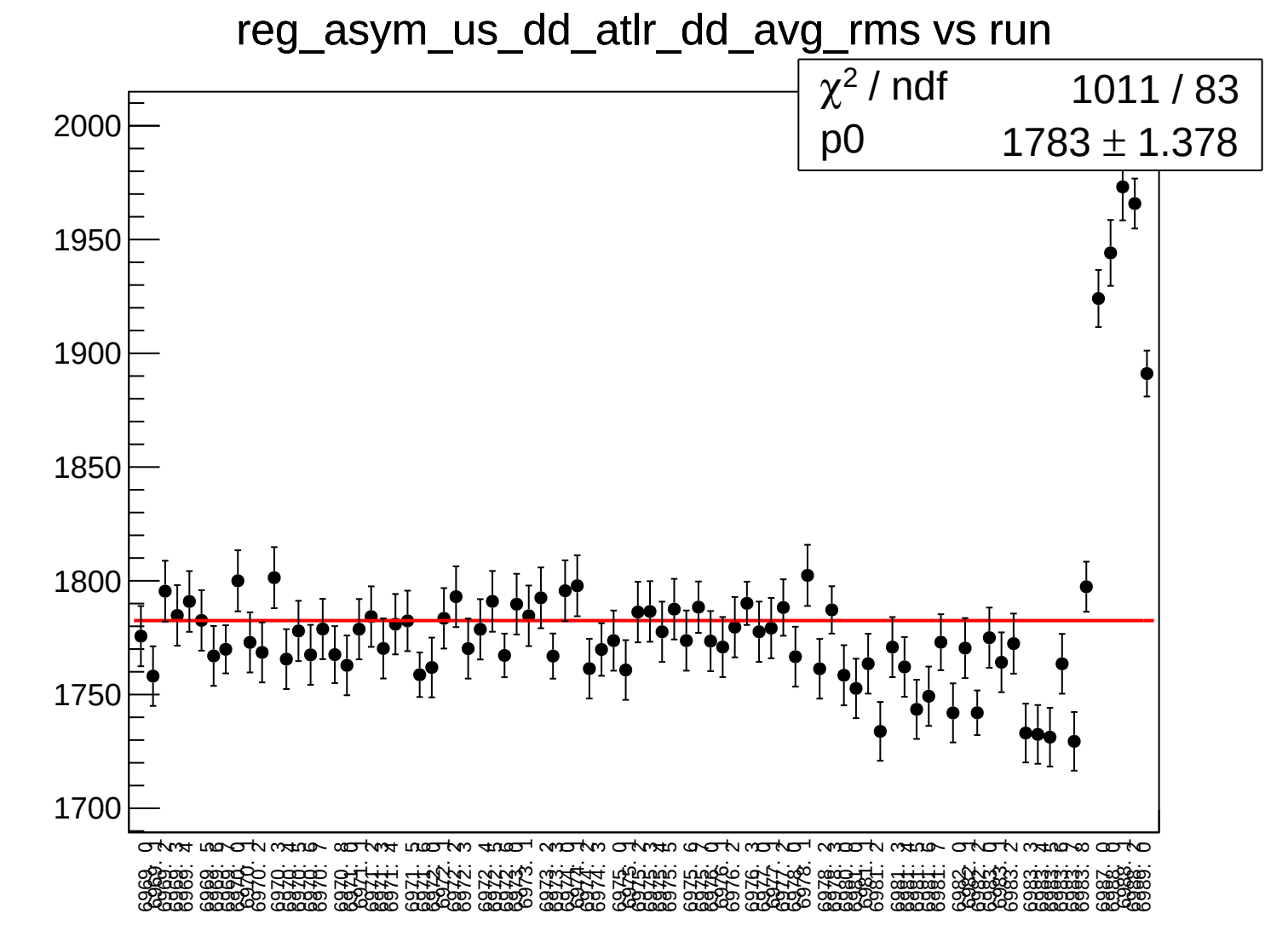

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.136e+04 / 83
p0 85.87 ± 0.06784
140
120
100
80
60

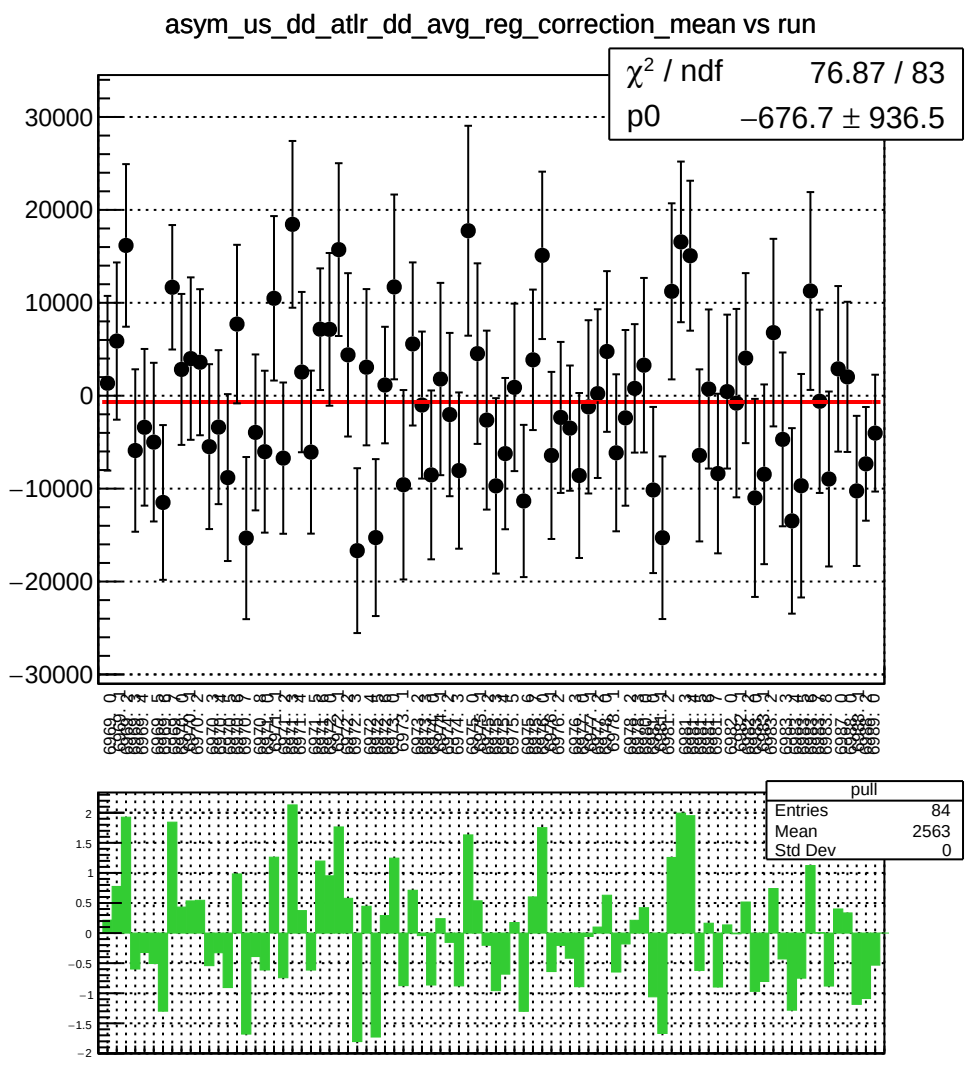

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.15 / 83
p0 −1.929e−14 ± 1.572e−14
pull
Entries 84
Mean 34.14
Std Dev 0
pull1D
Entries 84
Mean −0.04421
Std Dev 1.035

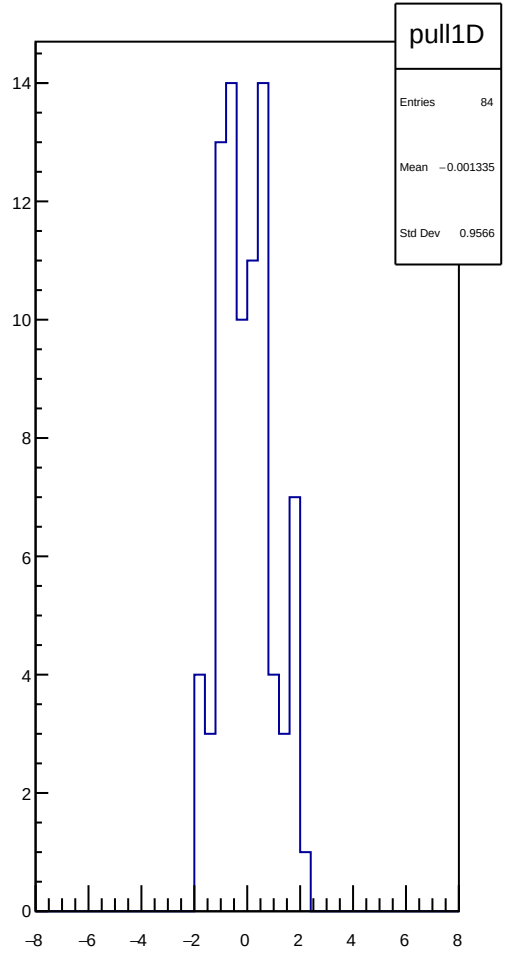

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.389e+05 / 83
p0 1.131e−11 ± 1.112e−14
0.1
0.08
0.06
0.04
0.02

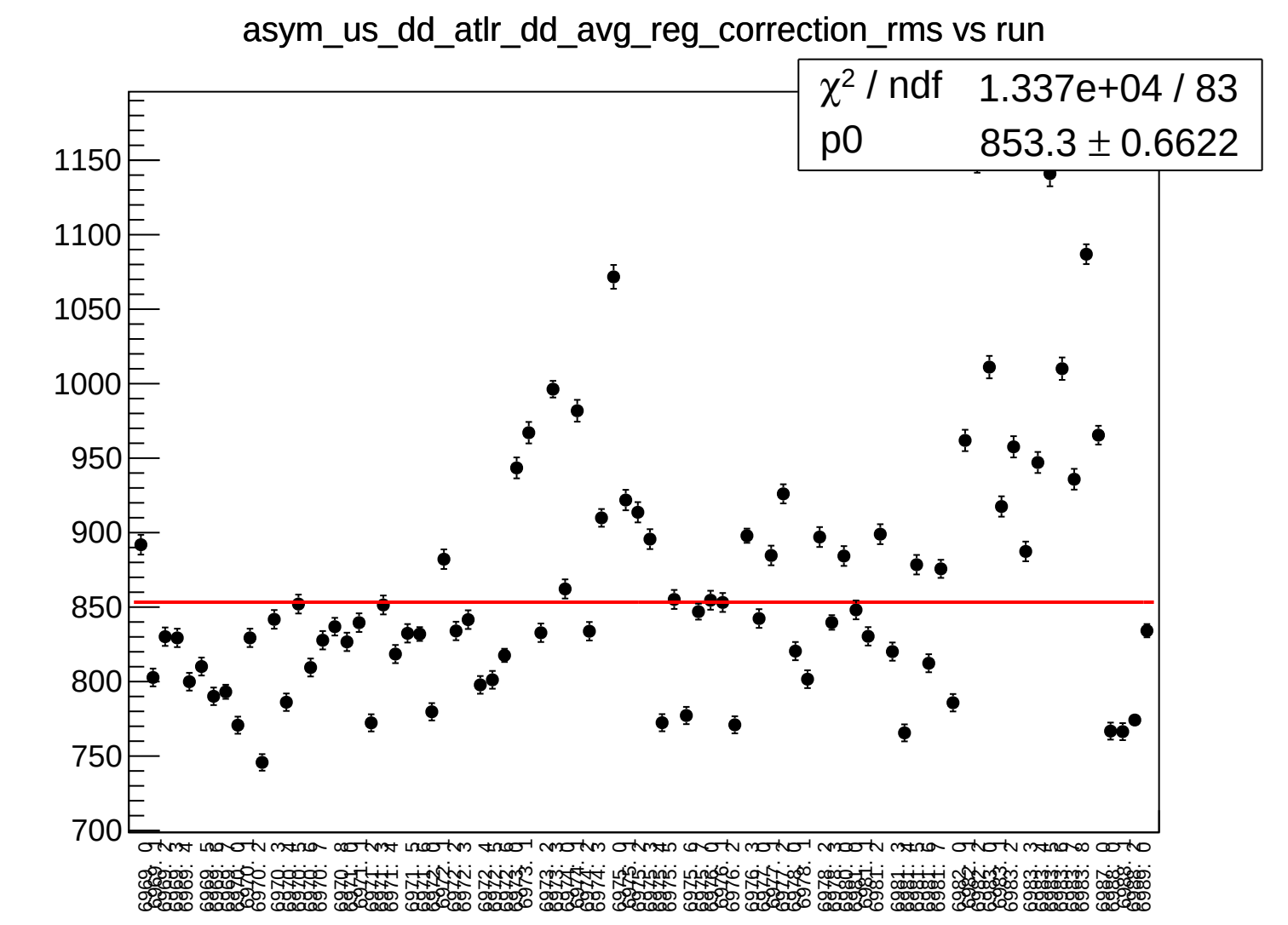

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.52 / 83
p0 −3151 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −397.8
Std Dev 0
2
1
0
−1
−2
−3
−4

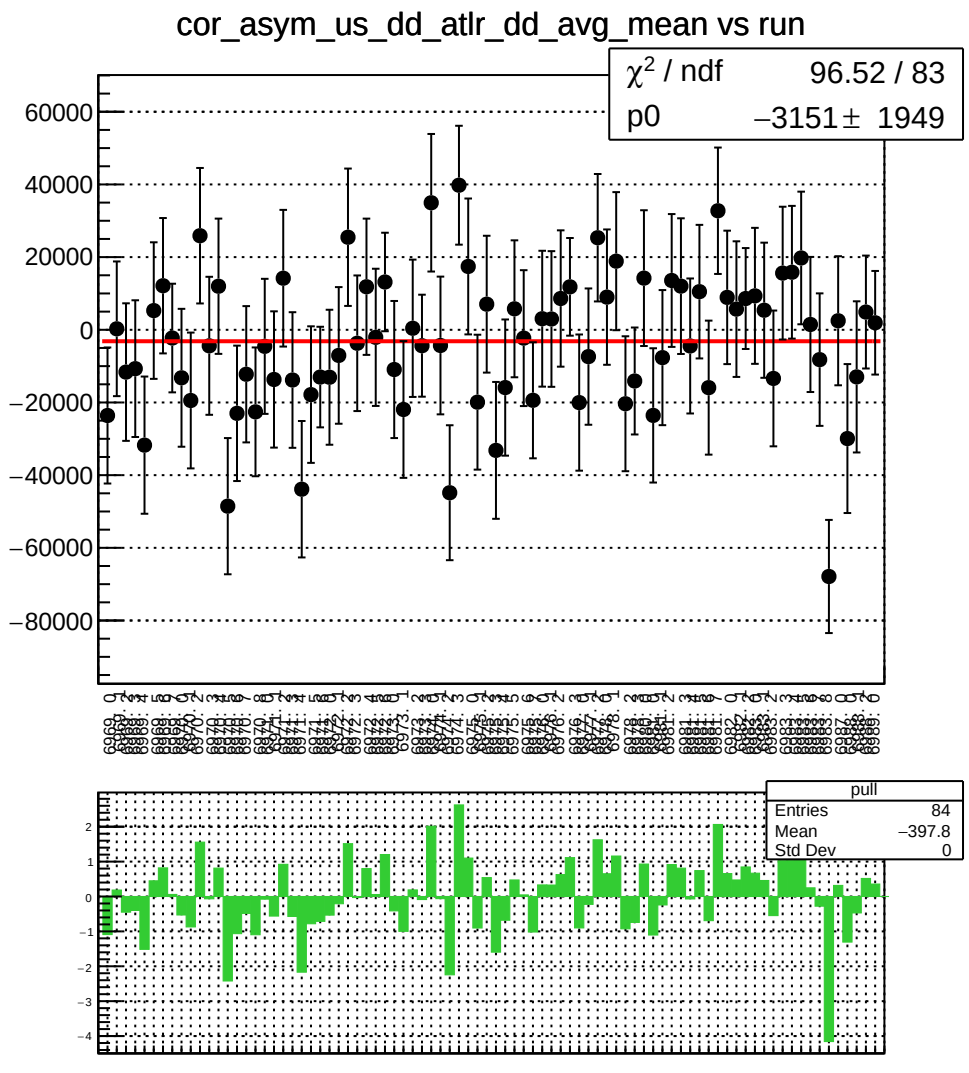

pull1D
Entries 84
Mean −0.009072
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

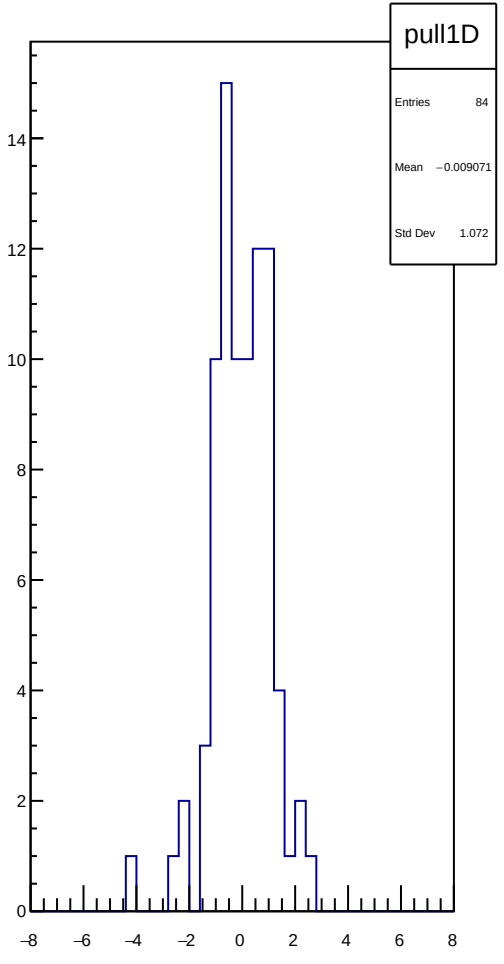

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 1011 / 83
p0 1783 ± 1.378
2000
1950
1900
1850
1800
1750
1700

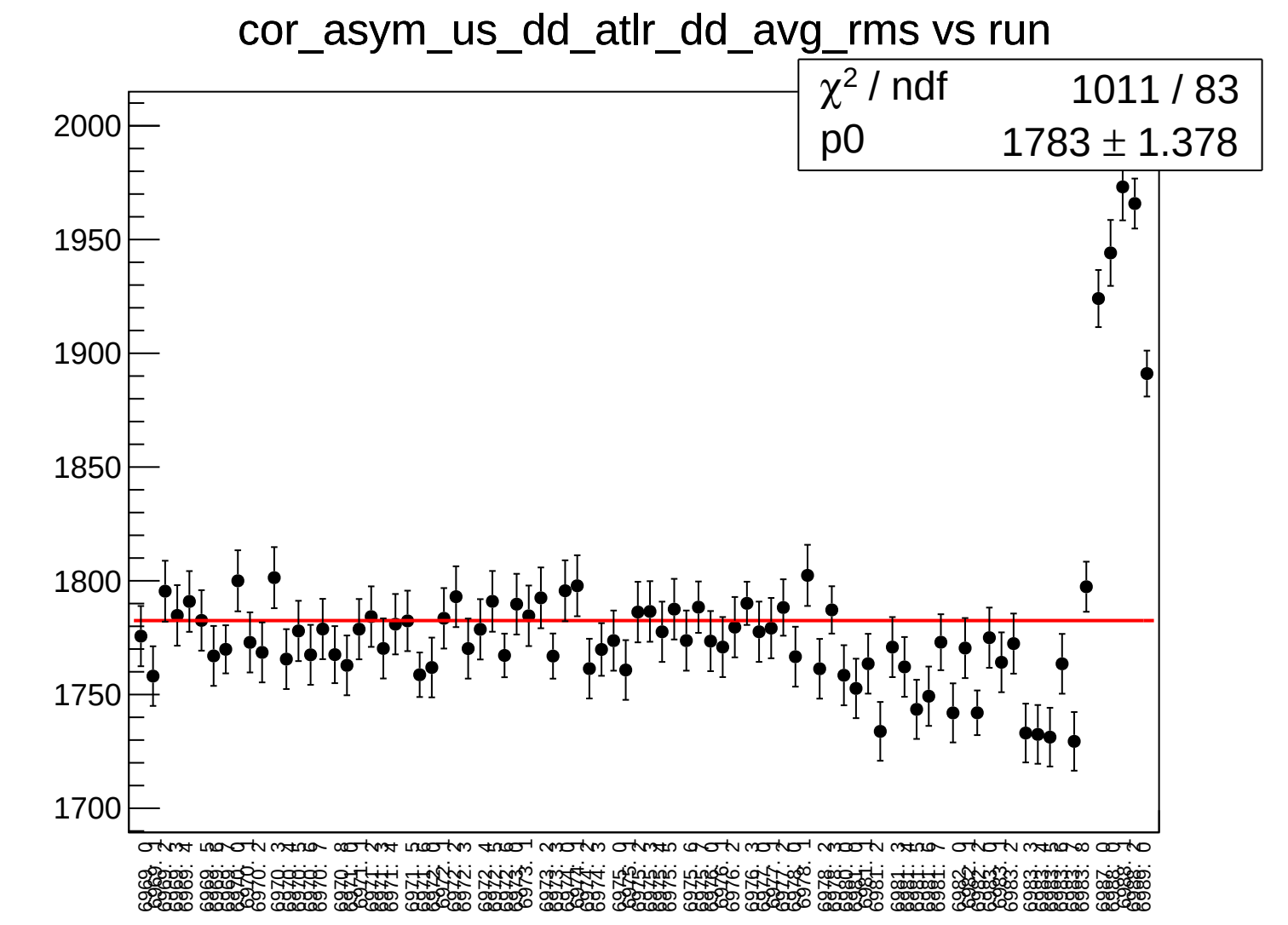

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 76.87 / 83
p0 −676.7 ± 936.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 2563
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

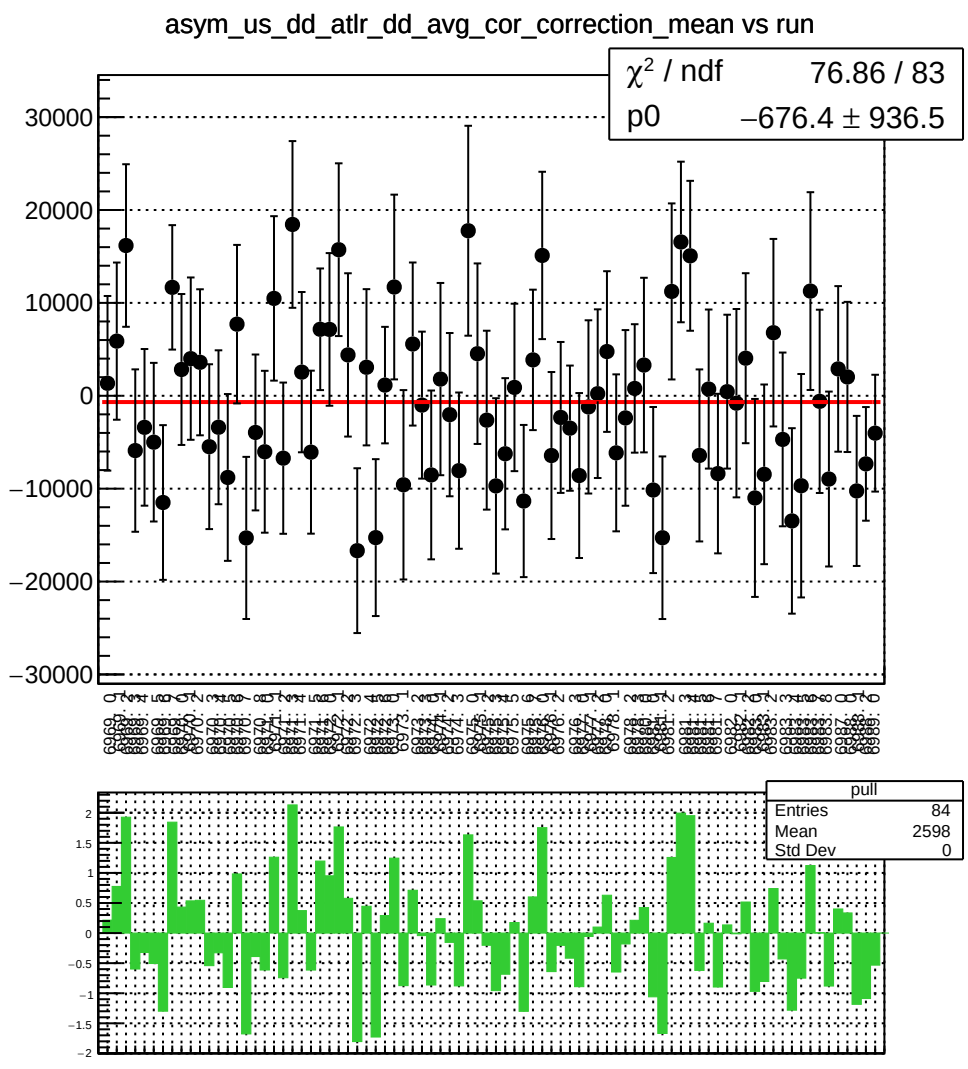

pull1D
Entries 84
Mean −0.001335
Std Dev 0.9566
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

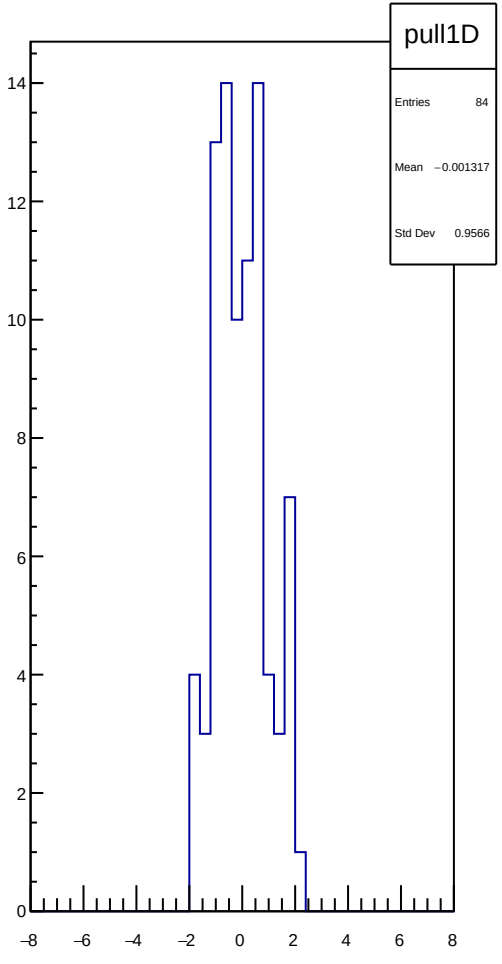

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.337e+04 / 83
p0 853.3 ± 0.6622
1150
1100
1050
1000
950
900
850
800
750
700

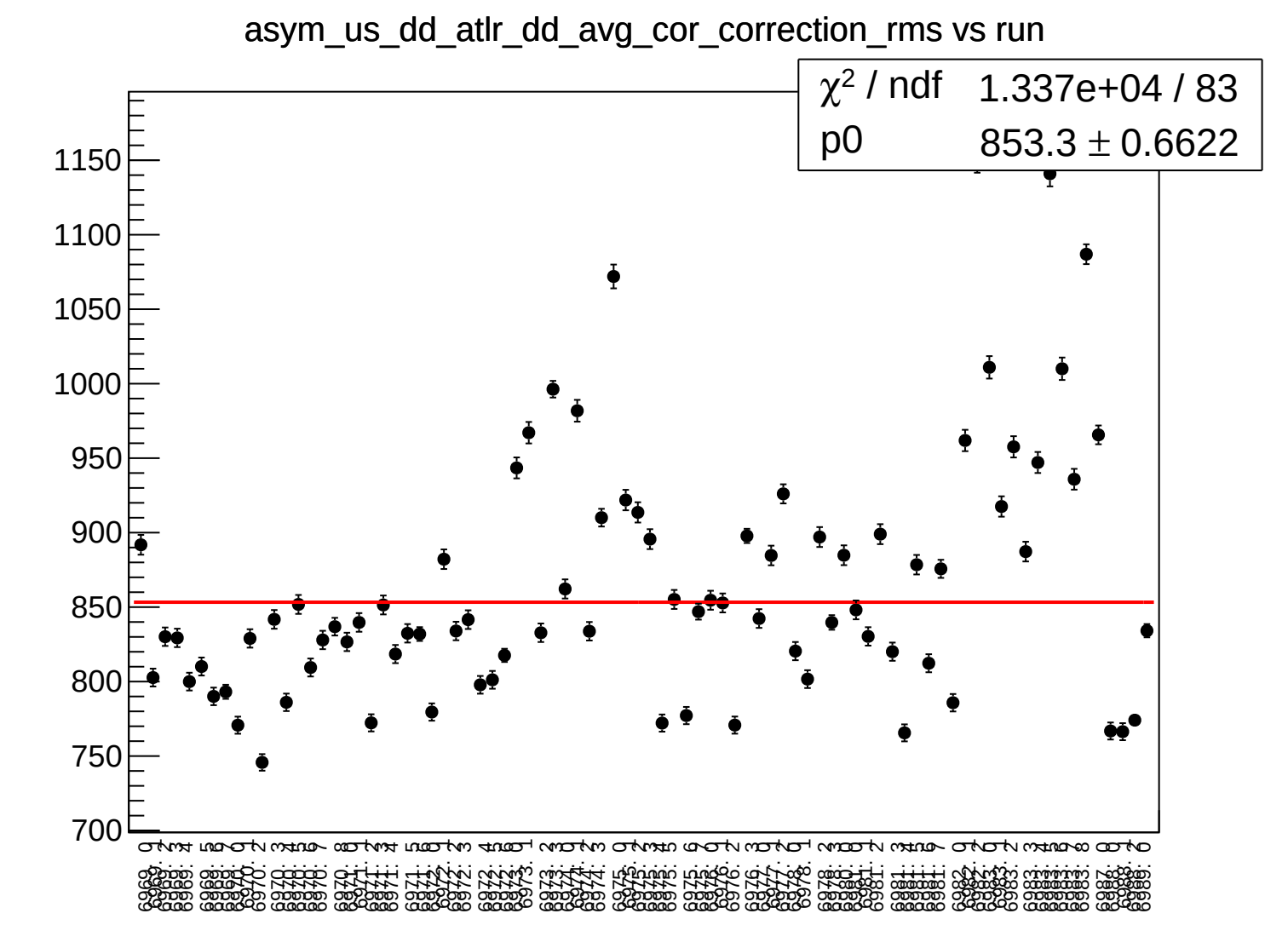

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.52 / 83
p0 −3151 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −397.8
Std Dev 0
2
1
0
−1
−2
−3
−4

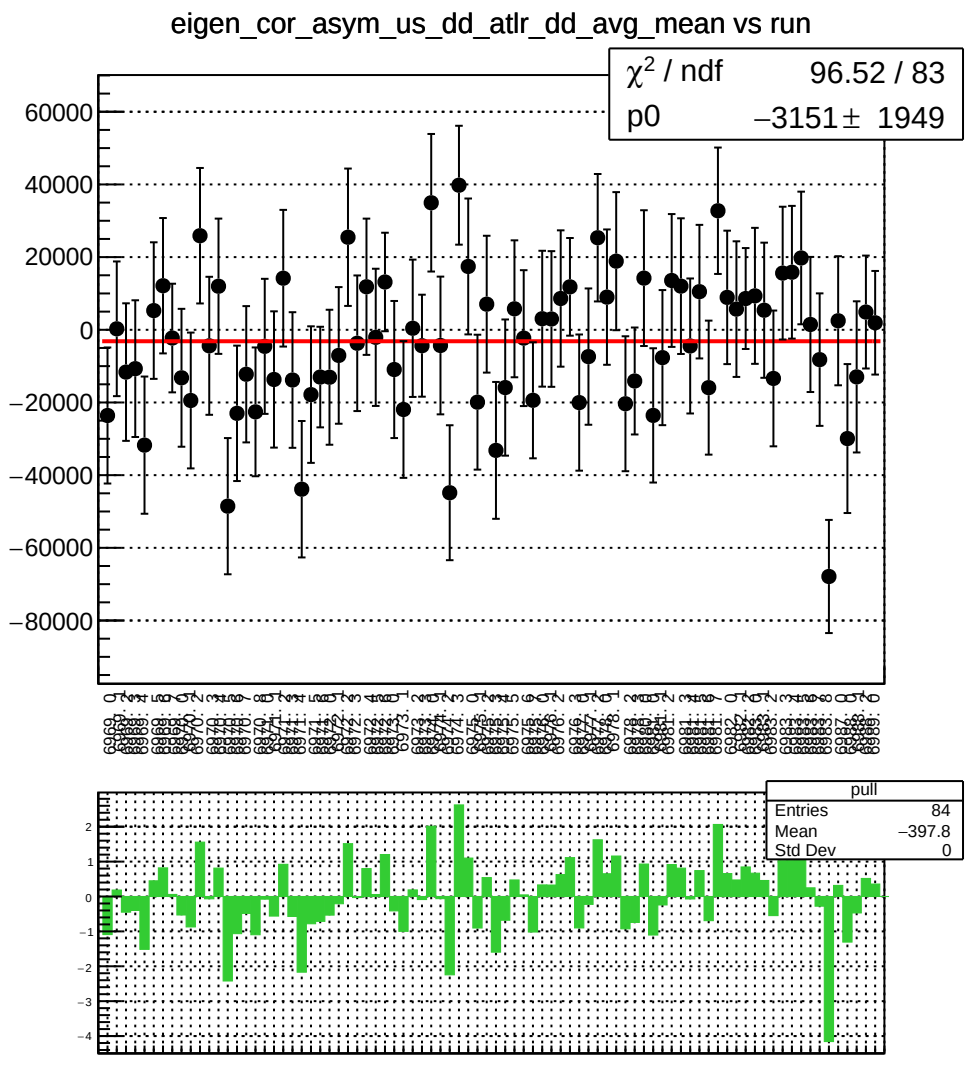

pull1D
Entries 84
Mean −0.009071
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

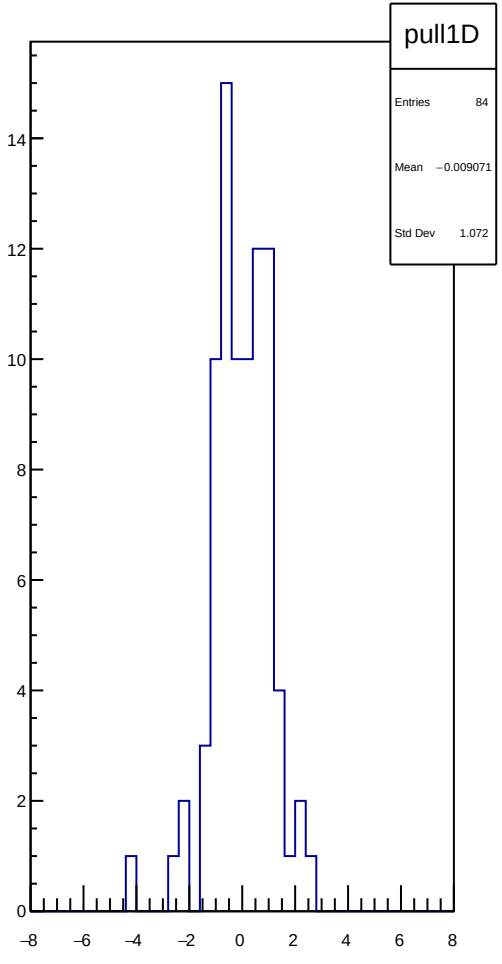

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1011 / 83
p0 1783 ± 1.378
2000
1950
1900
1850
1800
1750
1700

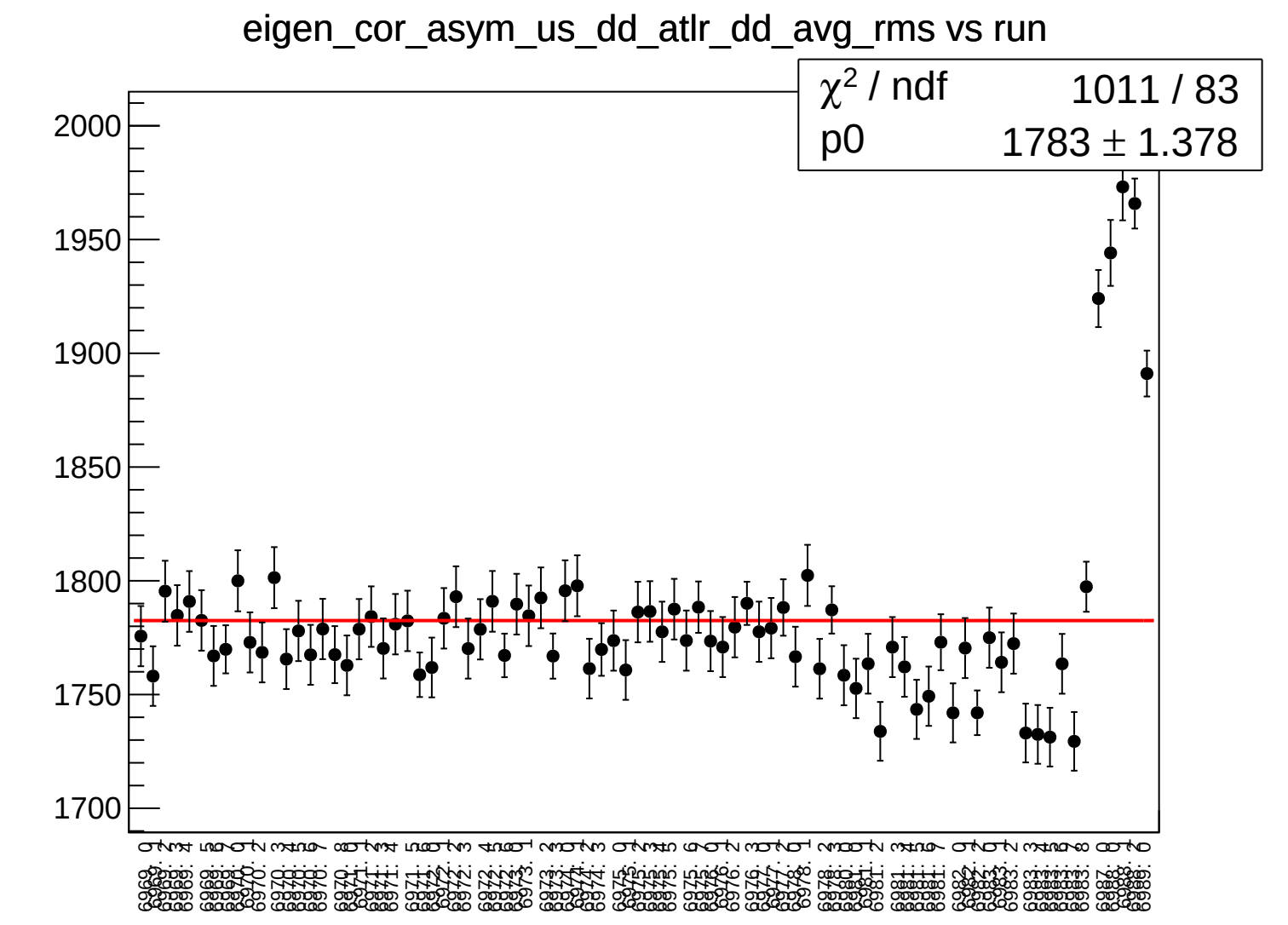

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 76.86 / 83
p0 −676.4 ± 936.5
pull
Entries 84
Mean 2598
Std Dev 0

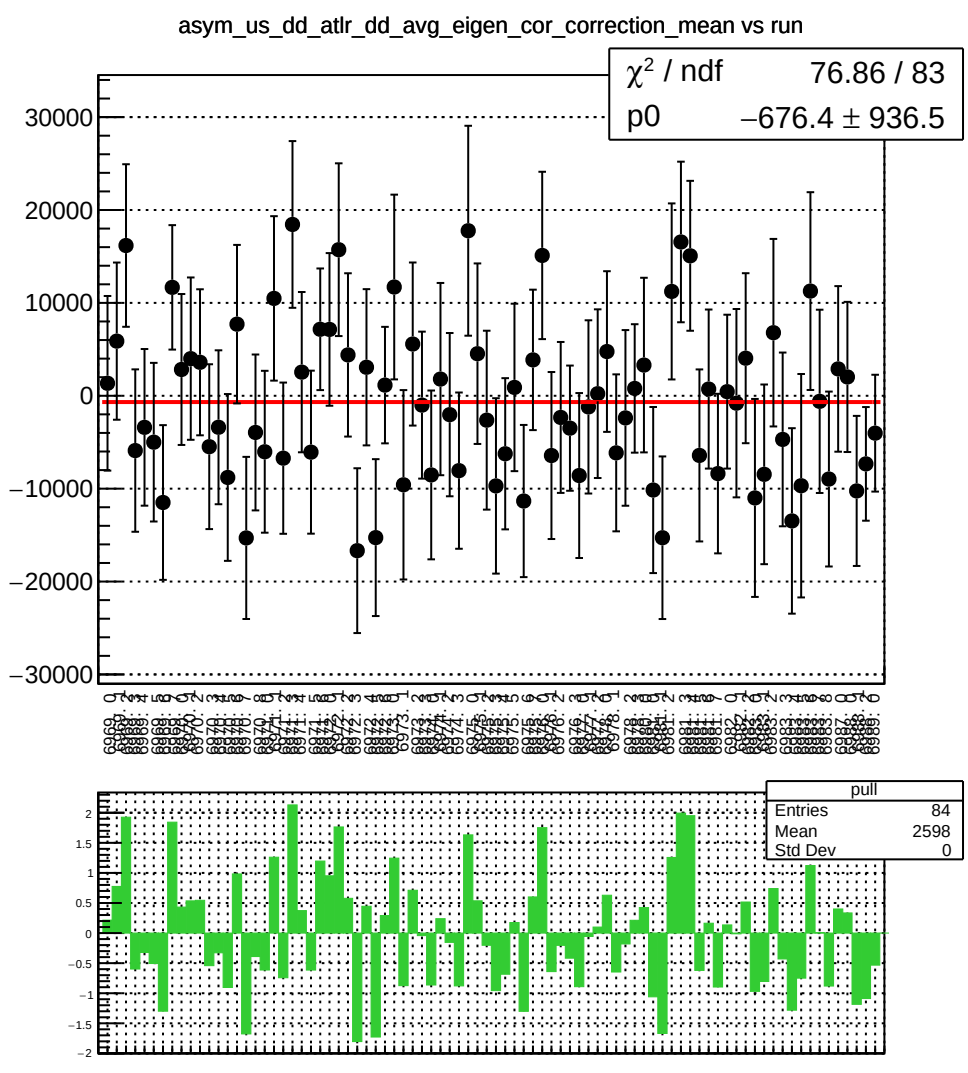

pull1D
Entries 84
Mean −0.001317
Std Dev 0.9566

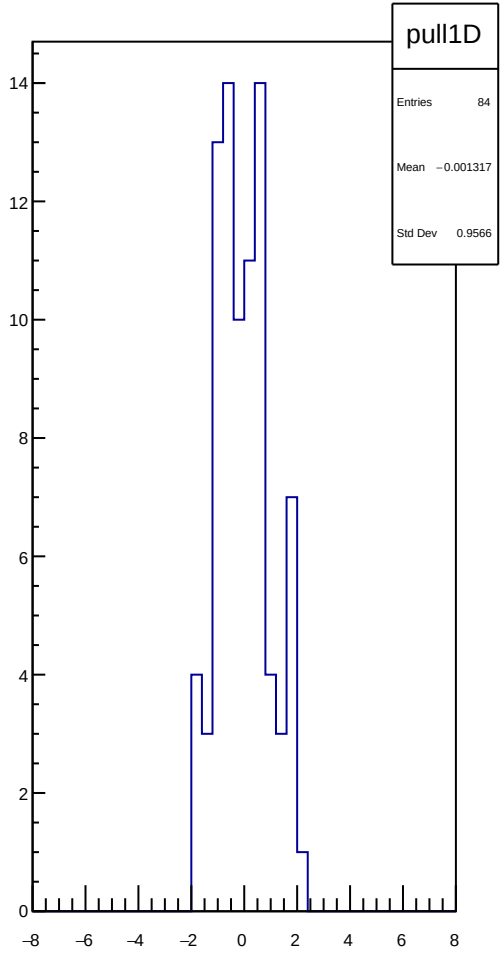

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.337e+04 / 83
p0 853.3 ± 0.6622
1150
1100
1050
1000
950
900
850
800
750
700

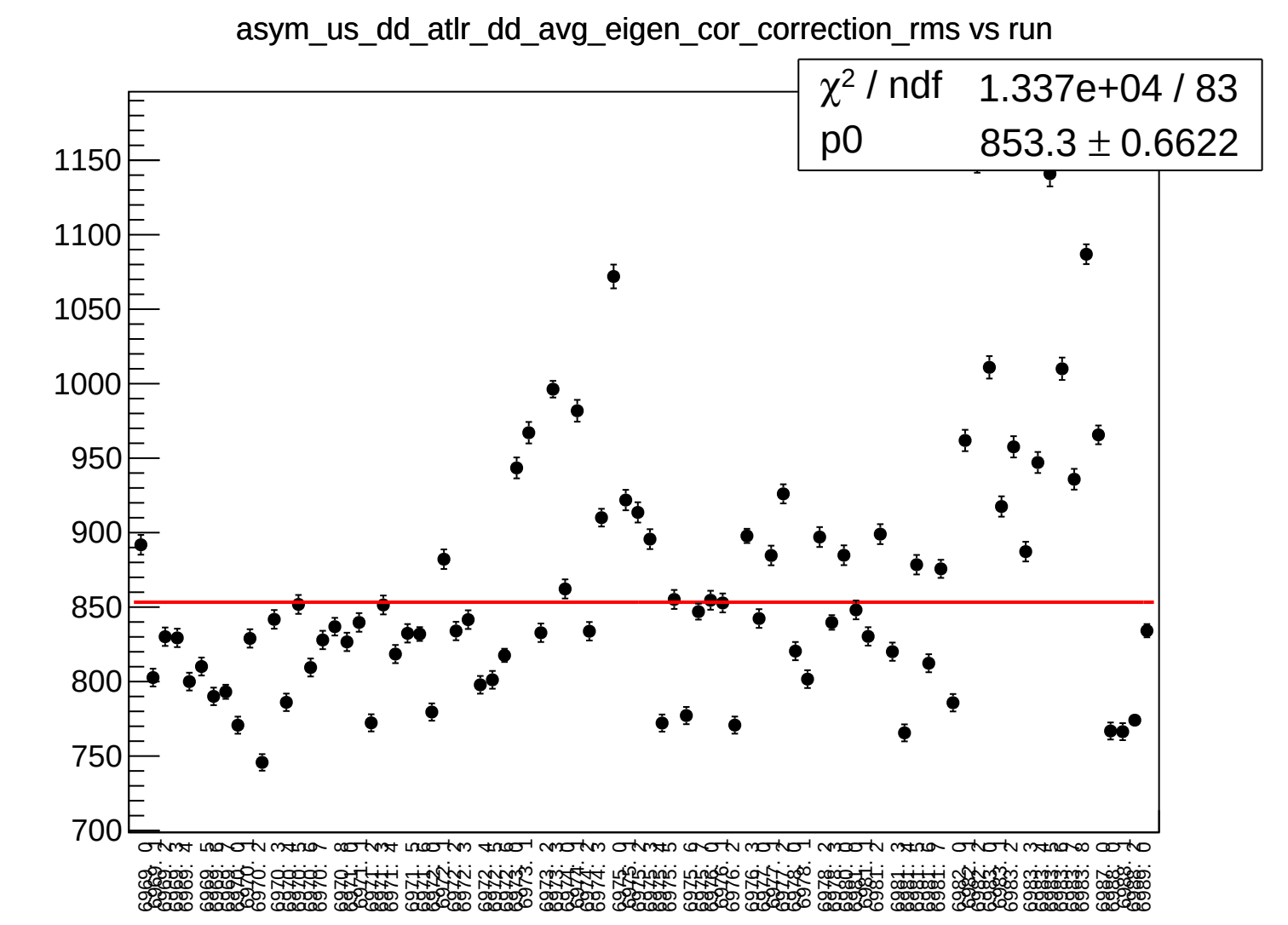

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.52 / 83
p0 −3151 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −397.8
Std Dev 0
2
1
0
−1
−2
−3
−4

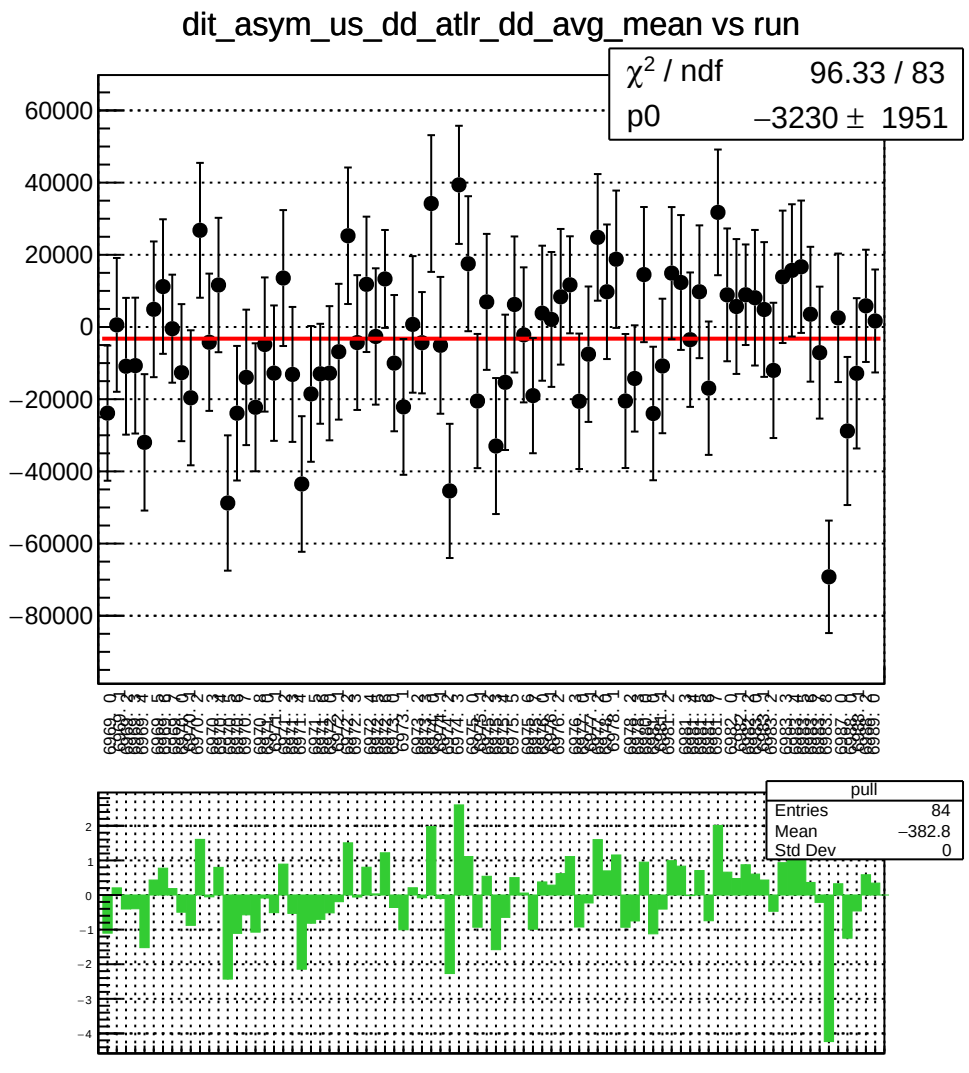

pull1D
Entries 84
Mean −0.009071
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

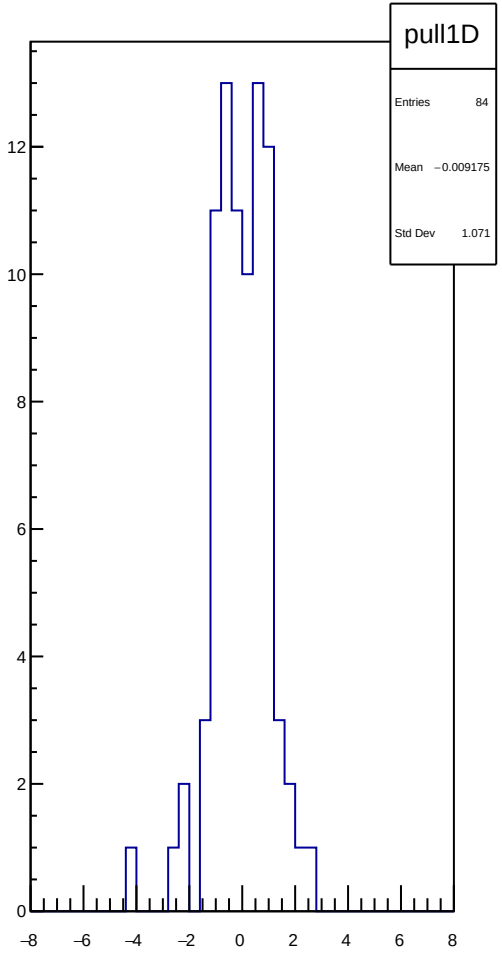

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1011 / 83
p0 1783 ± 1.378
2000
1950
1900
1850
1800
1750
1700

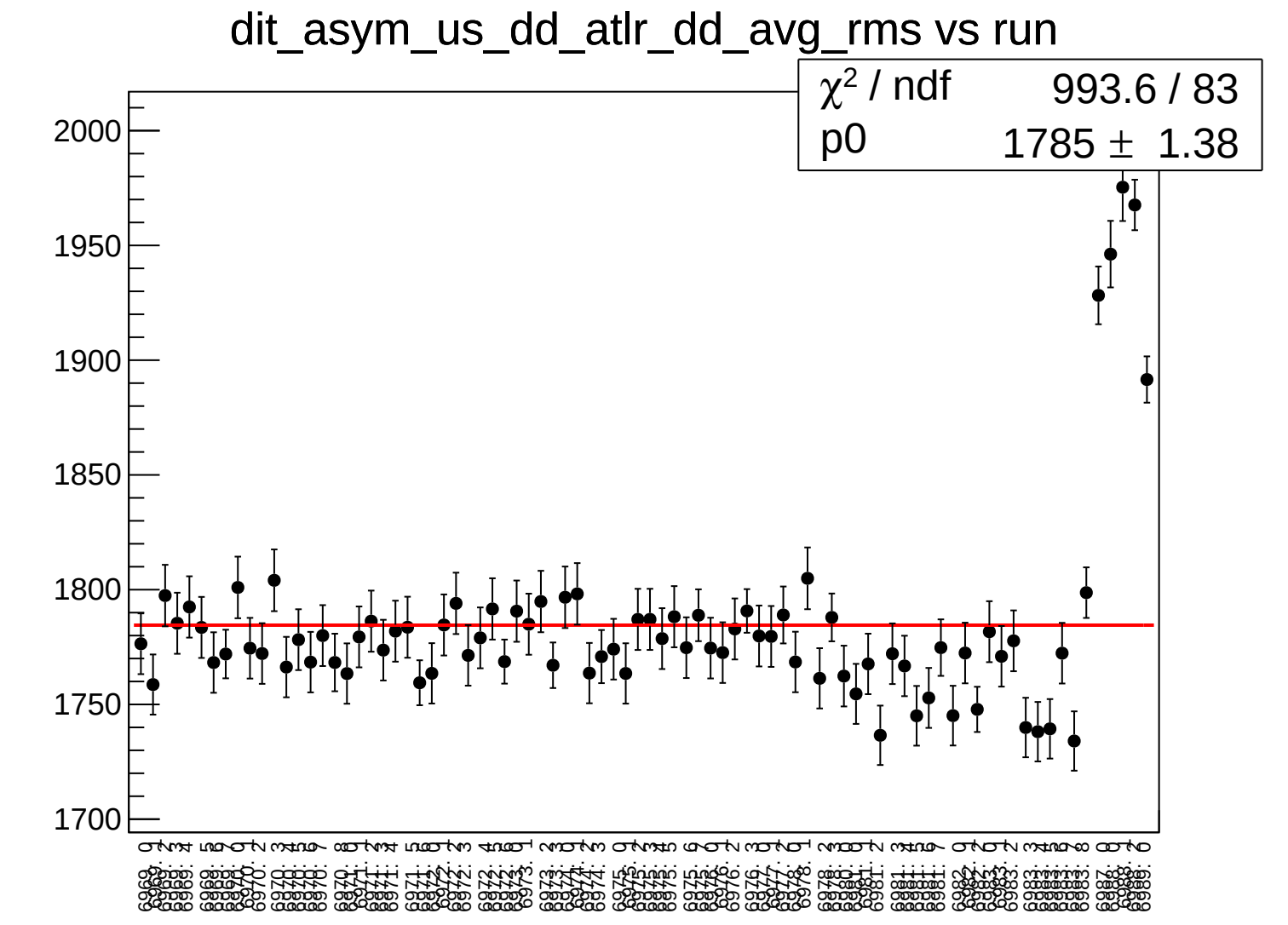

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.86 / 83
p0 −676.4 ± 936.5
pull
Entries 84
Mean 2598
Std Dev 0

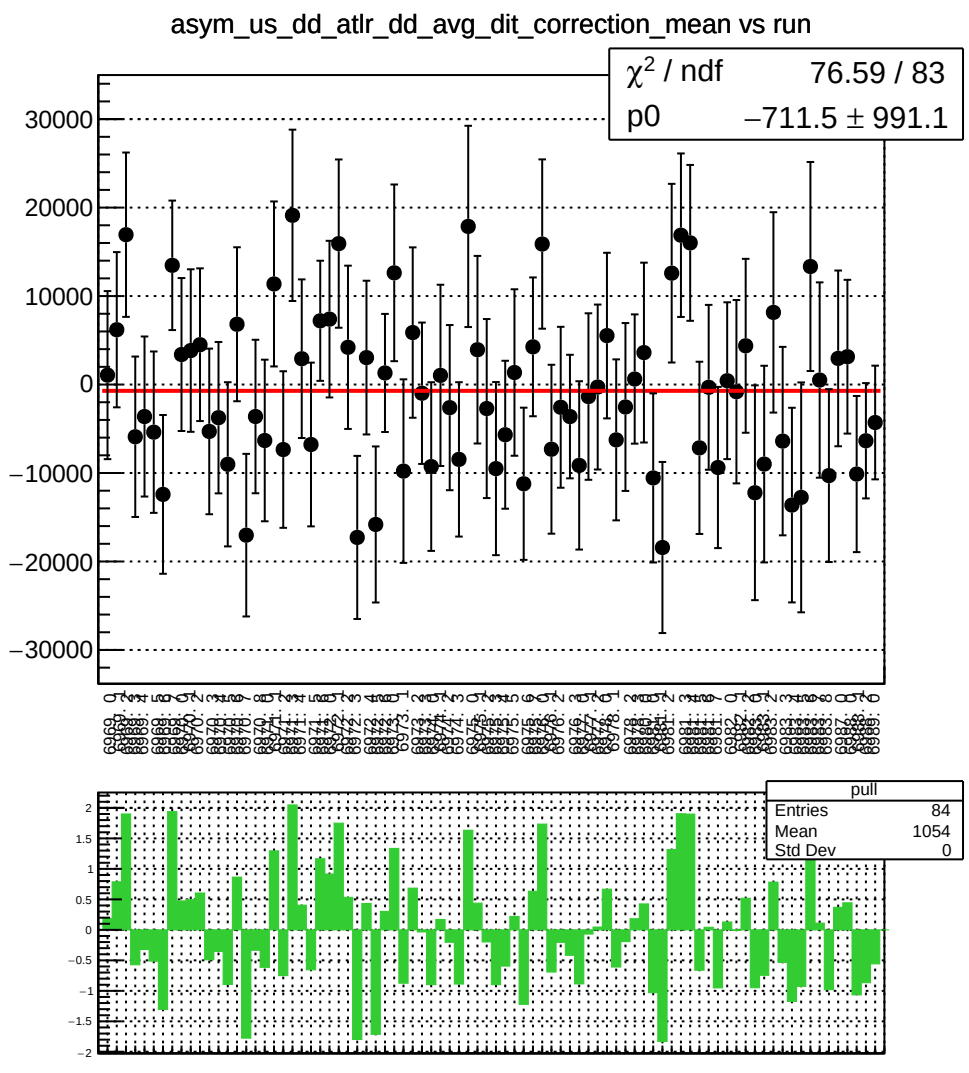

pull1D
Entries 84
Mean −0.001317
Std Dev 0.9566

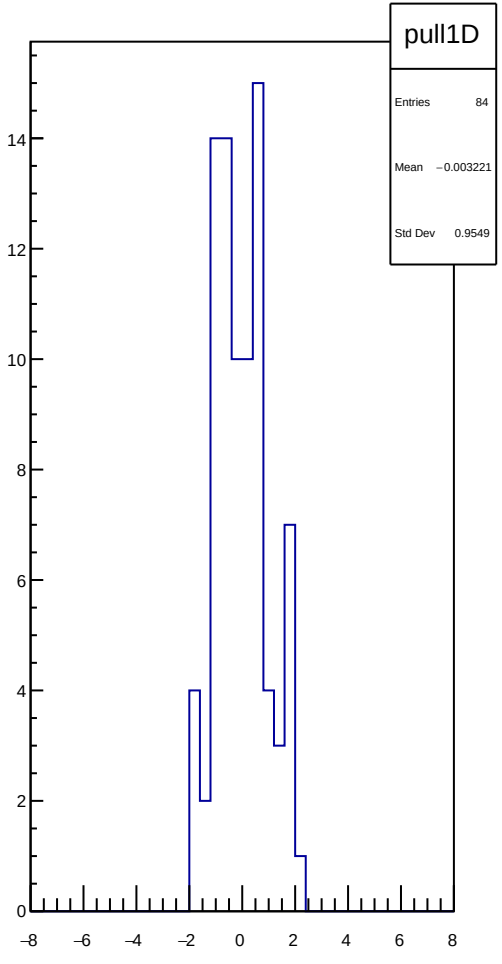

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.337e+04 / 83
p0 853.3 ± 0.6622
1150
1100
1050
1000
950
900
850
800
750
700

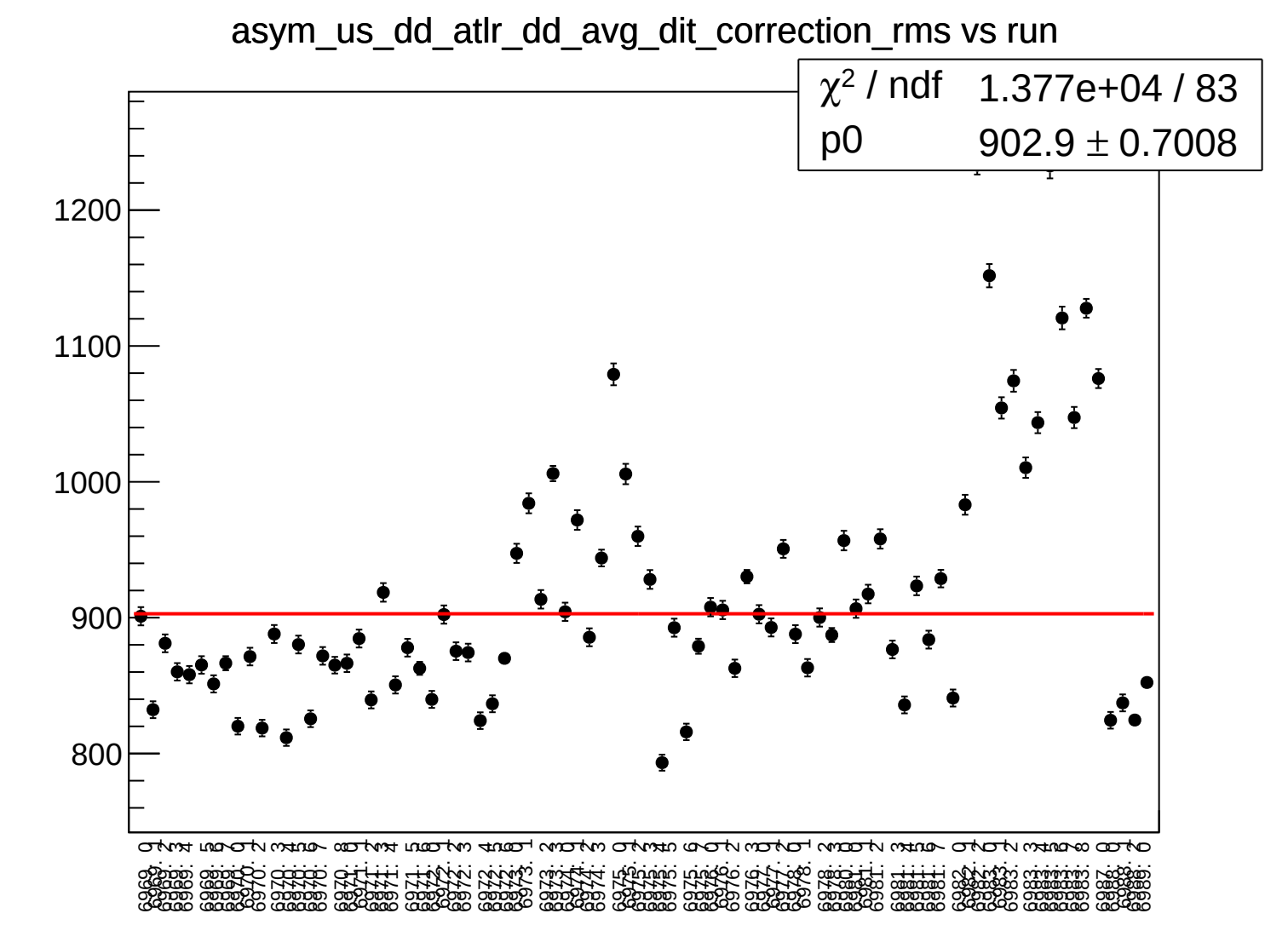

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.33 / 83
p0 −3230 ± 1951
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −382.8
Std Dev 0
2
1
0
−1
−2
−3
−4

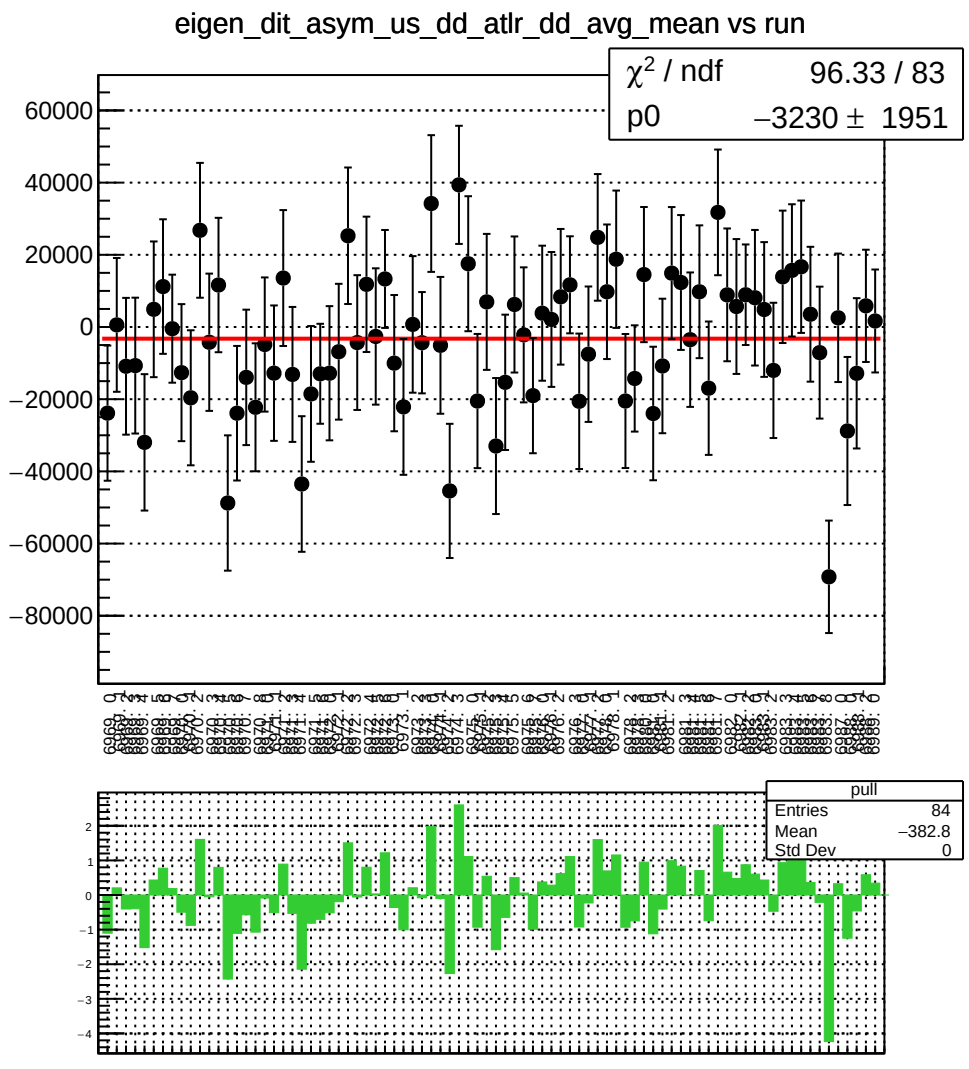

pull1D
Entries 84
Mean −0.009175
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

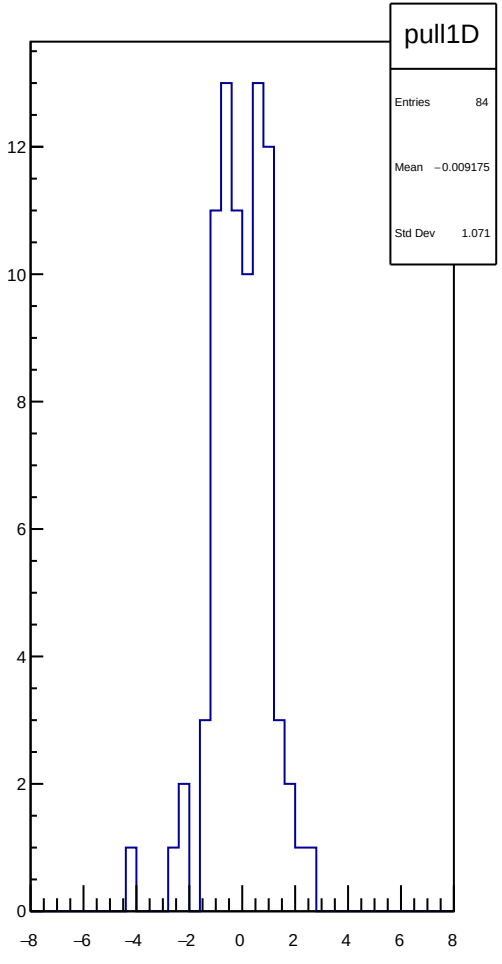

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 993.6 / 83
p0 1785 ± 1.38
2000
1950
1900
1850
1800
1750
1700

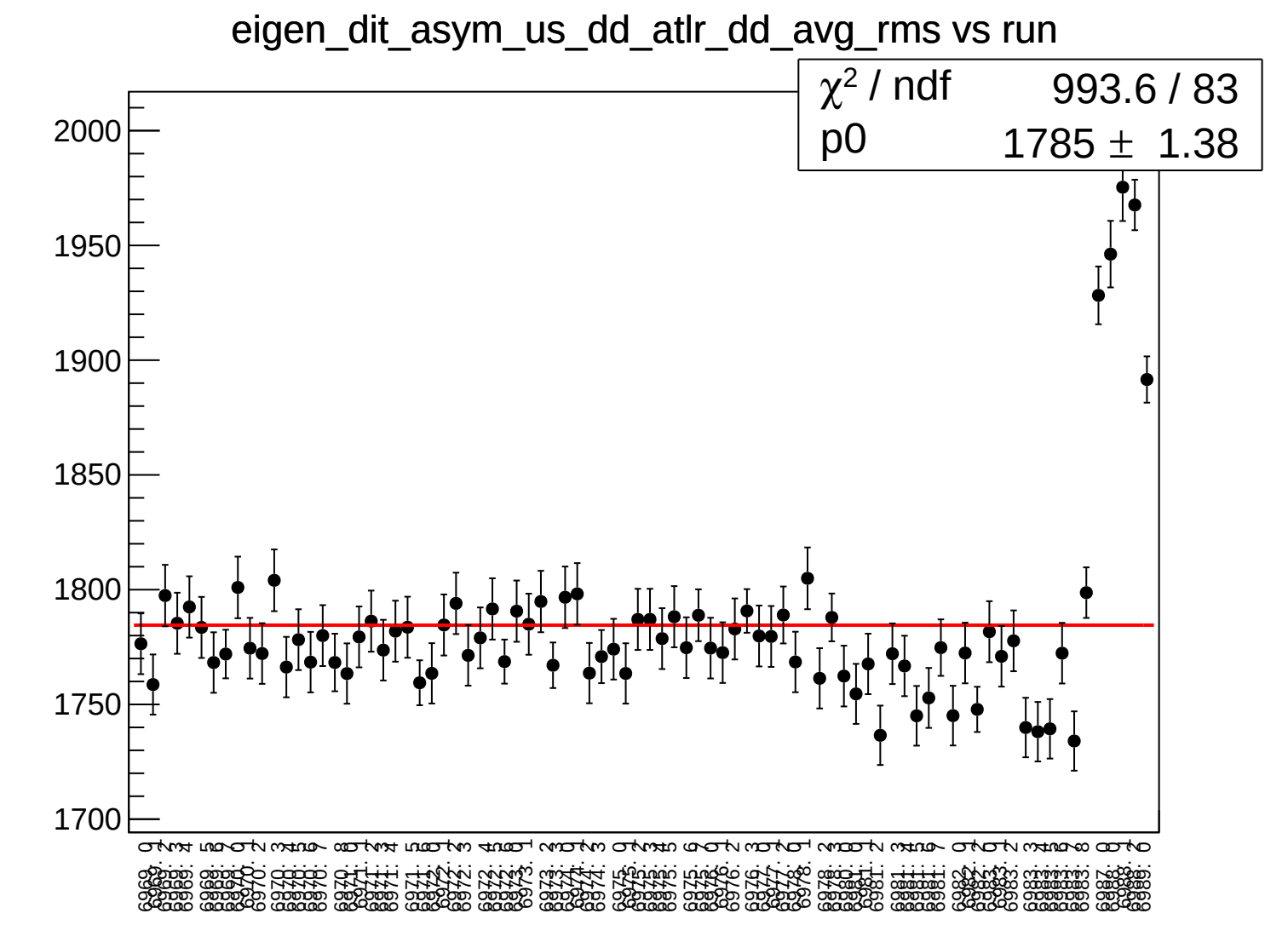

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 76.59 / 83
p0 −711.5 ± 991.1
pull
Entries 84
Mean 1054
Std Dev 0

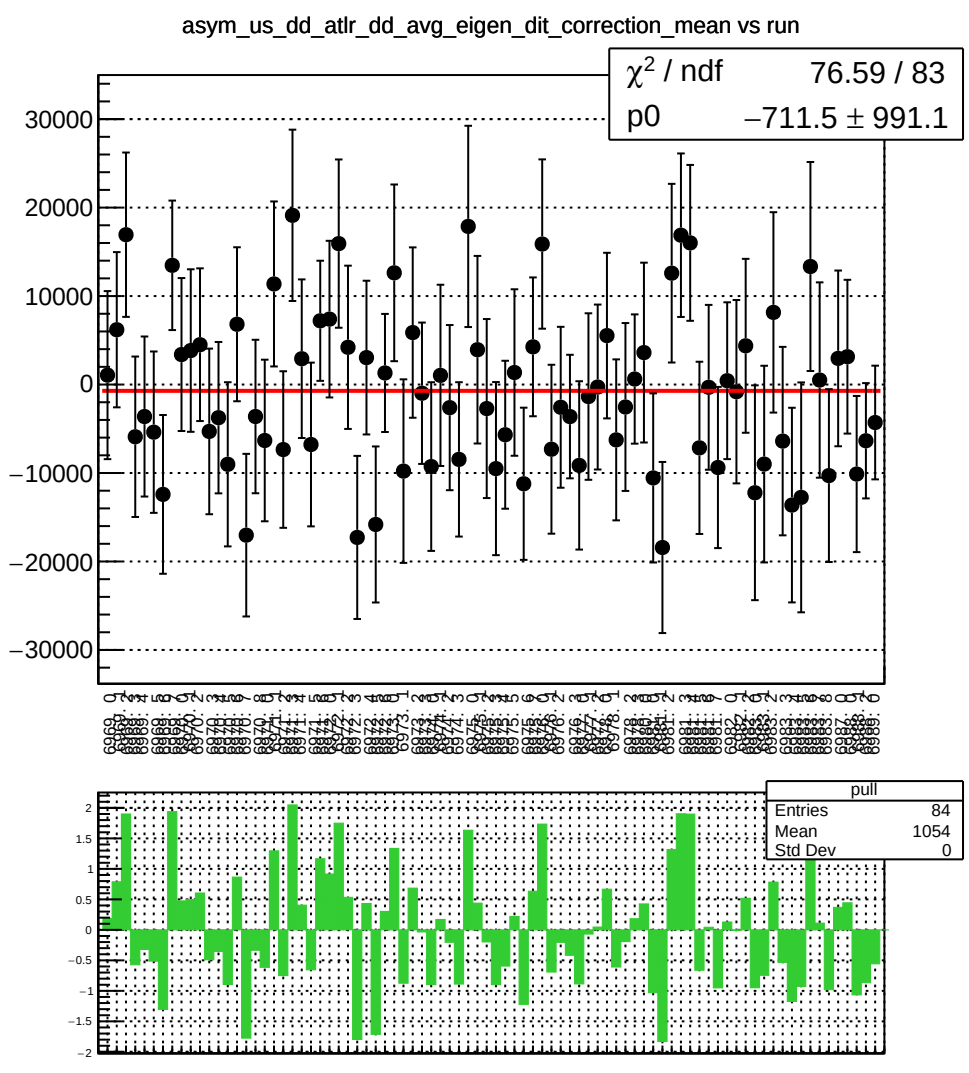

pull1D
Entries 84
Mean −0.003221
Std Dev 0.9549

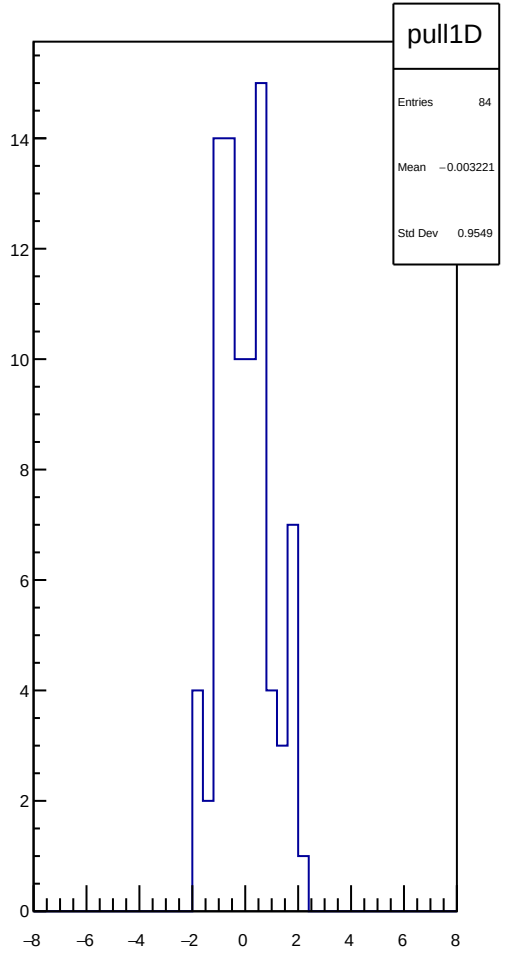

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.377e+04 / 83
p0 902.9 ± 0.7008
1200
1100
1000
900
800

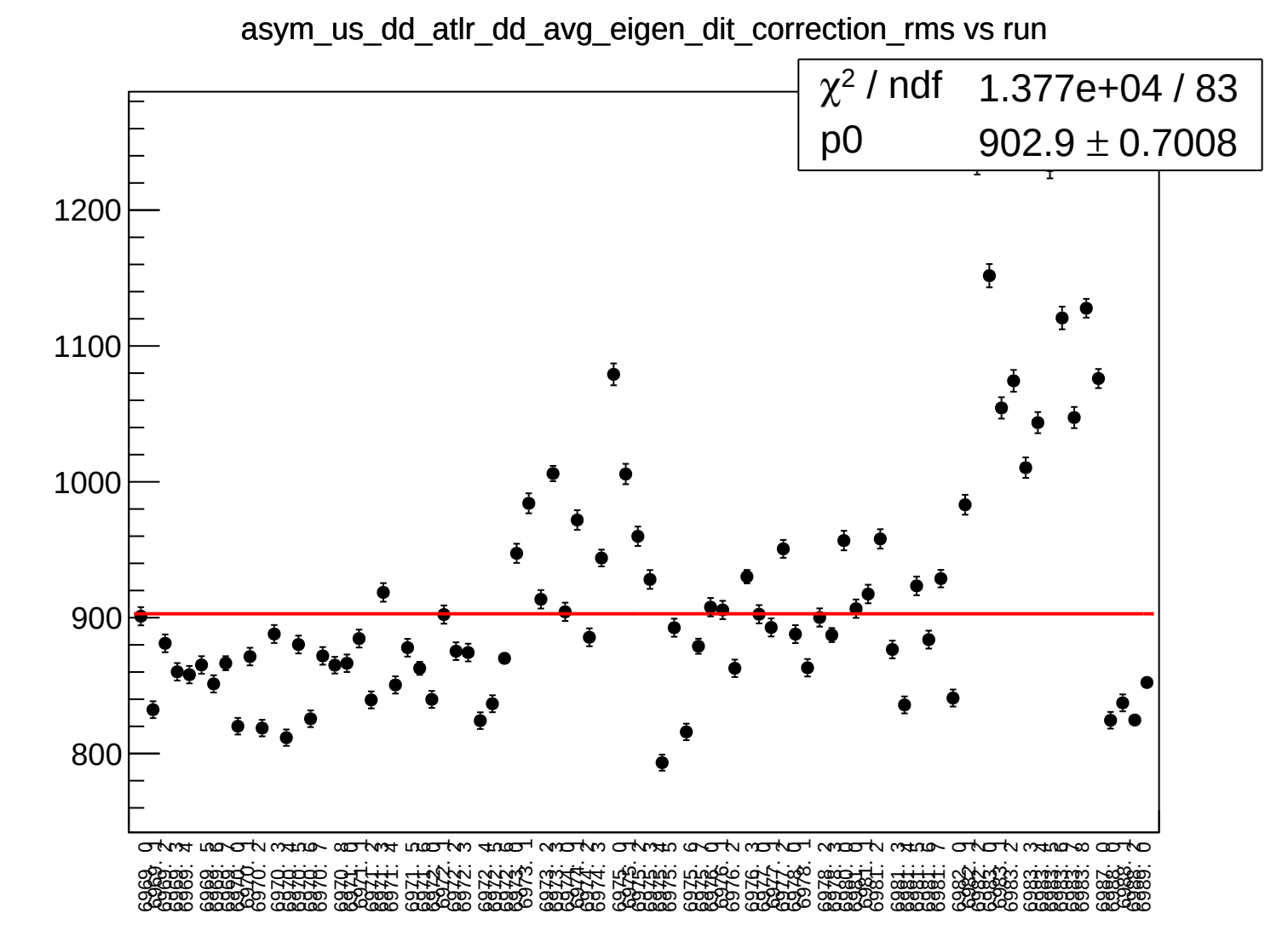

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.33 / 83
p0 −3230 ± 1951
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −382.8
Std Dev 0
2
1
0
−1
−2
−3
−4

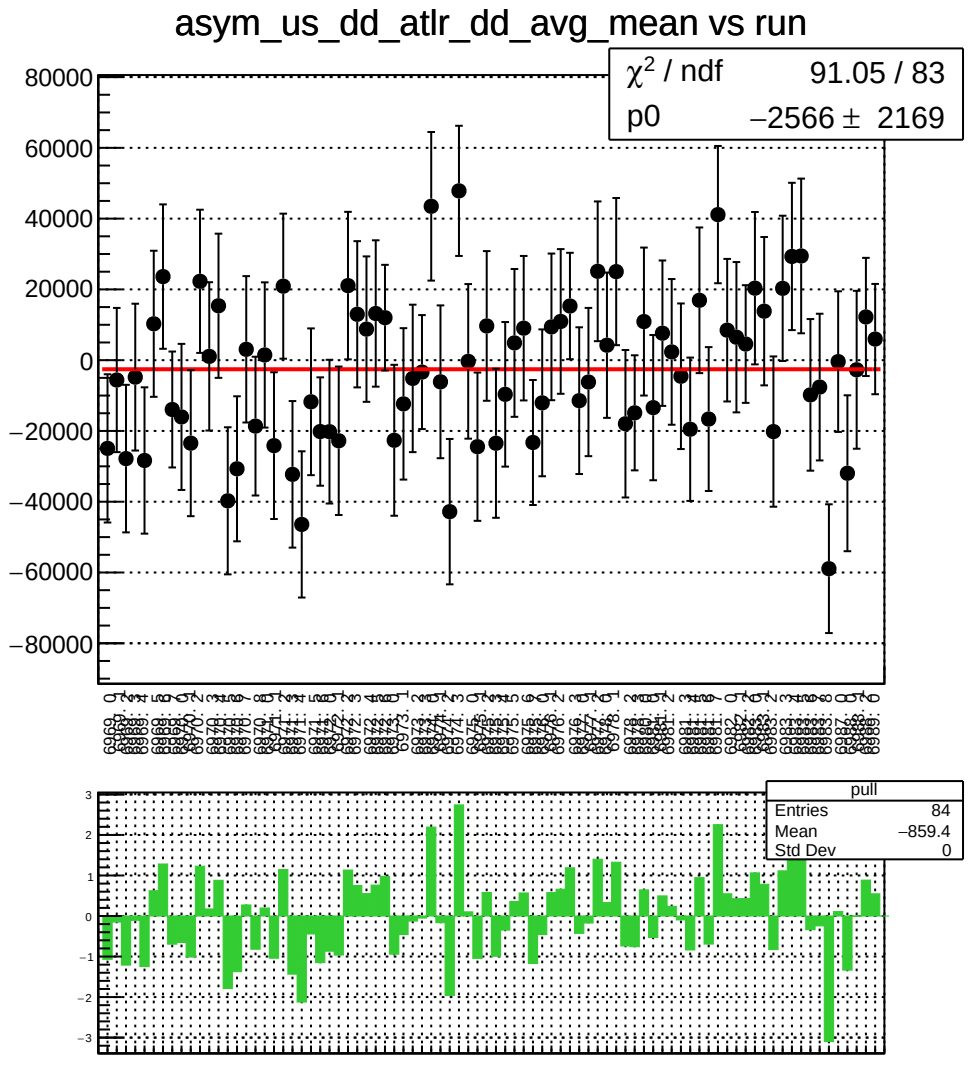

pull1D
Entries 84
Mean −0.009175
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

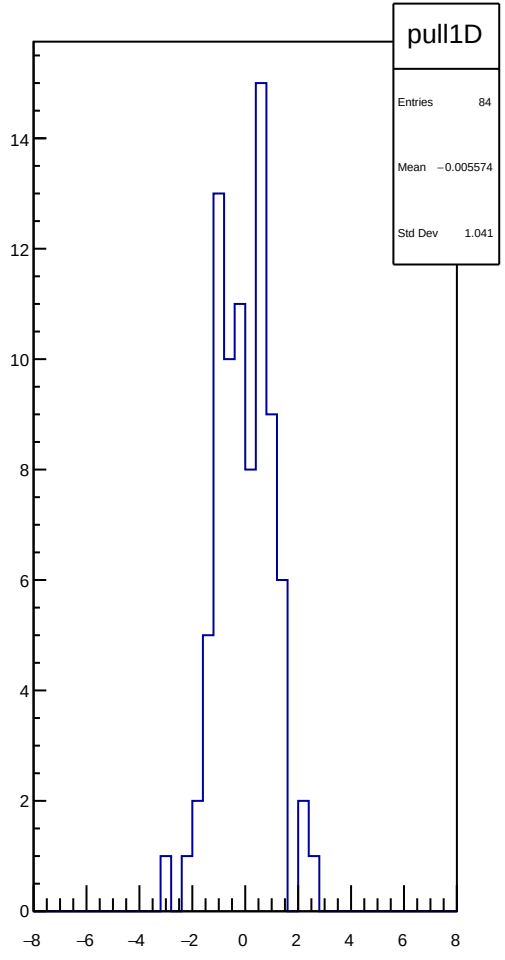

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 993.6 / 83
p0 1785 ± 1.38
2000
1950
1900
1850
1800
1750
1700

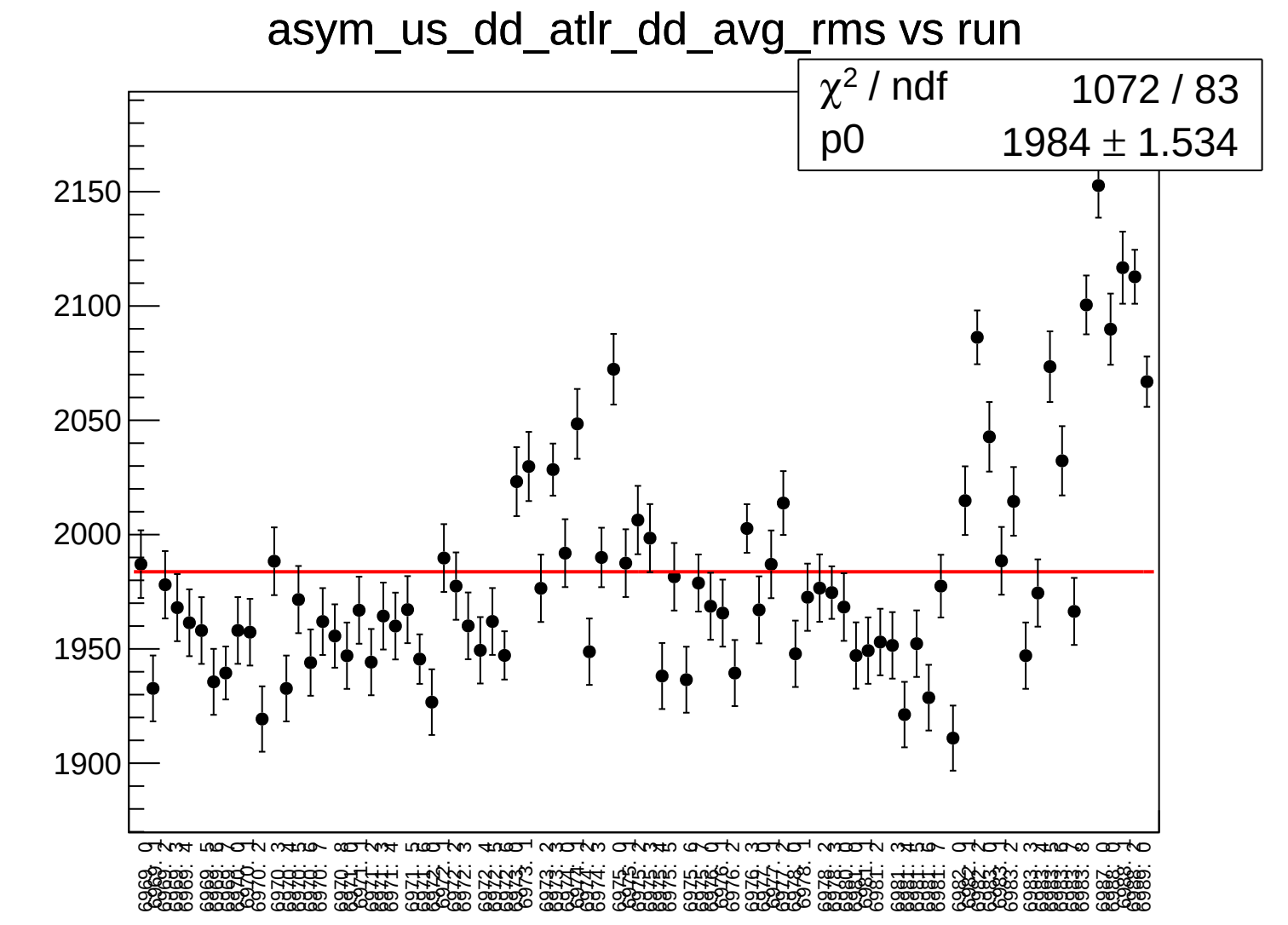

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.59 / 83
p0 −711.5 ± 991.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 1054
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

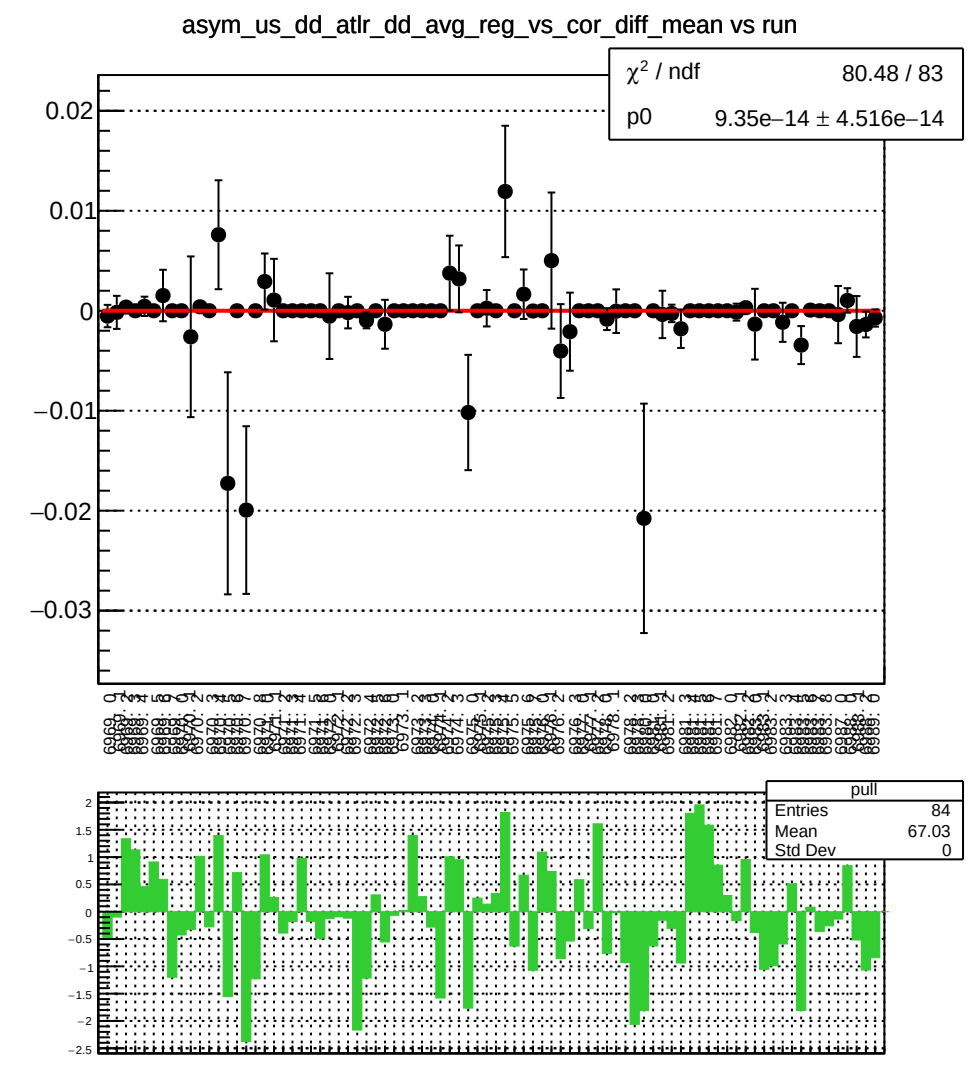

pull1D
Entries 84
Mean −0.003221
Std Dev 0.9549
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

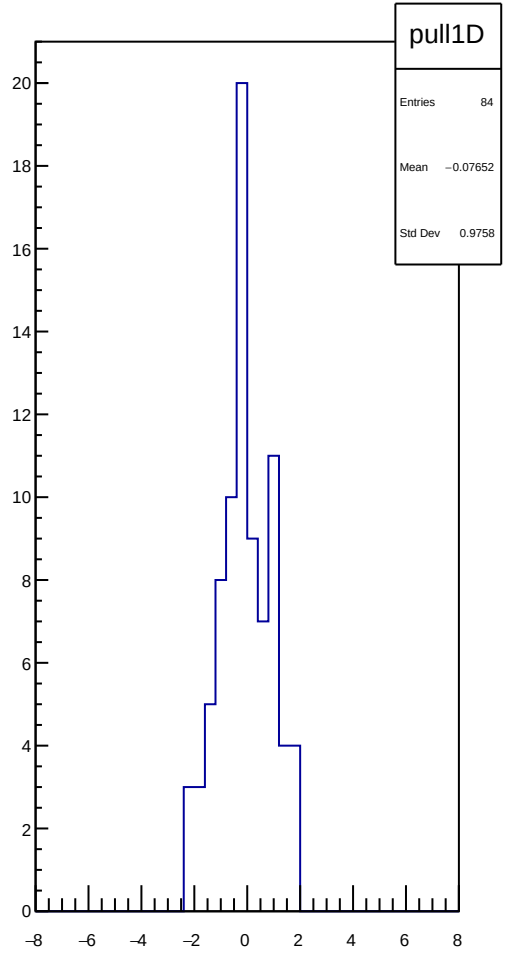

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.377e+04 / 83
p0 902.9 ± 0.7008
1200
1100
1000
900
800

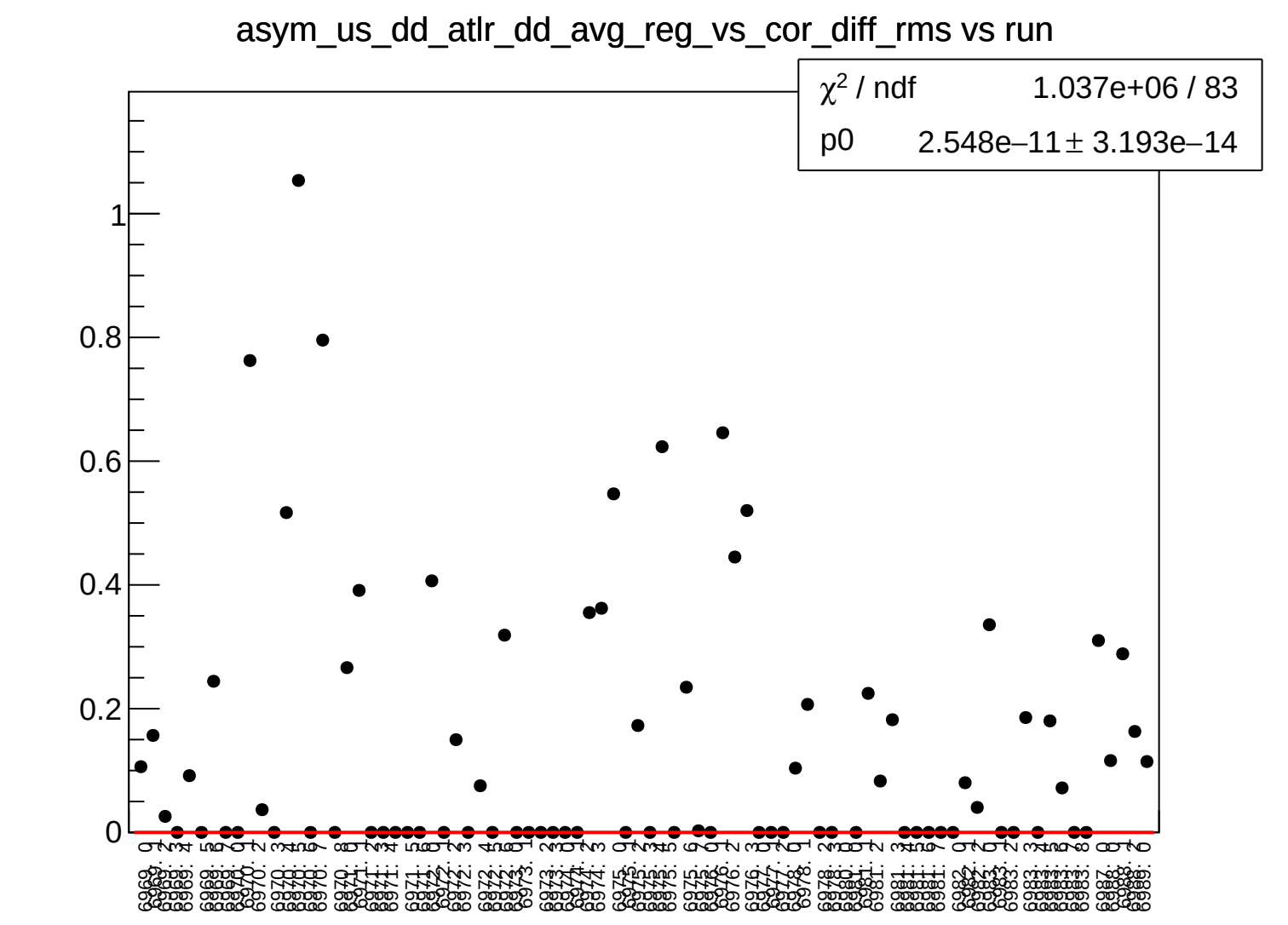

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 91.05 / 83
p0 −2566 ± 2169
pull
Entries 84
Mean −859.4
Std Dev 0

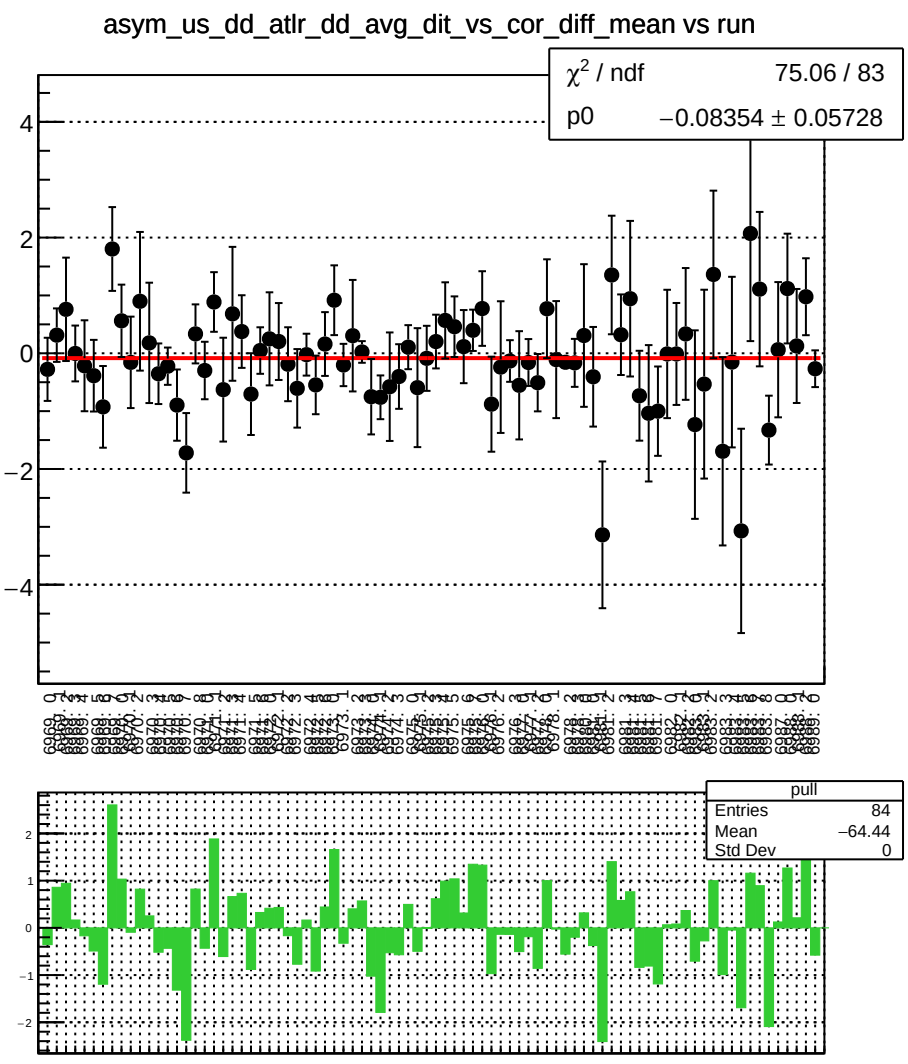

pull1D
Entries 84
Mean −0.005574
Std Dev 1.041

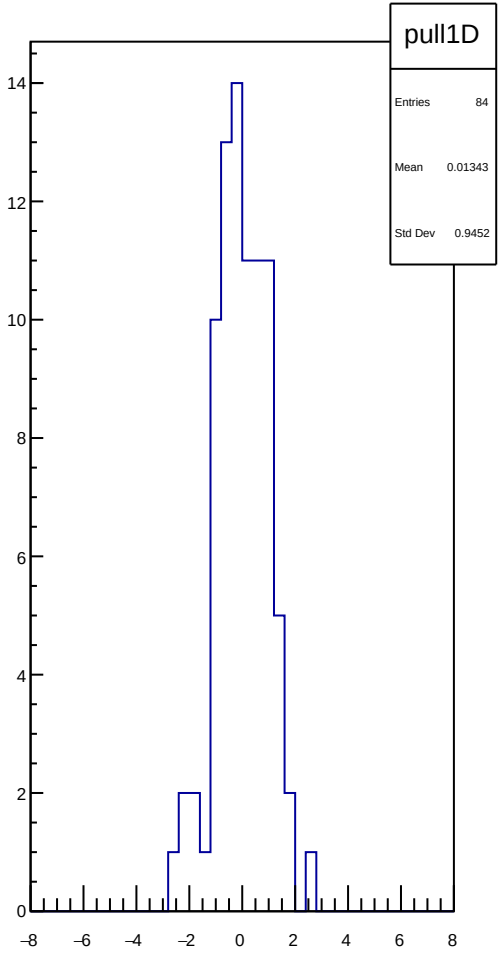

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1072 / 83
p0 1984 ± 1.534
2150
2100
2050
2000
1950
1900

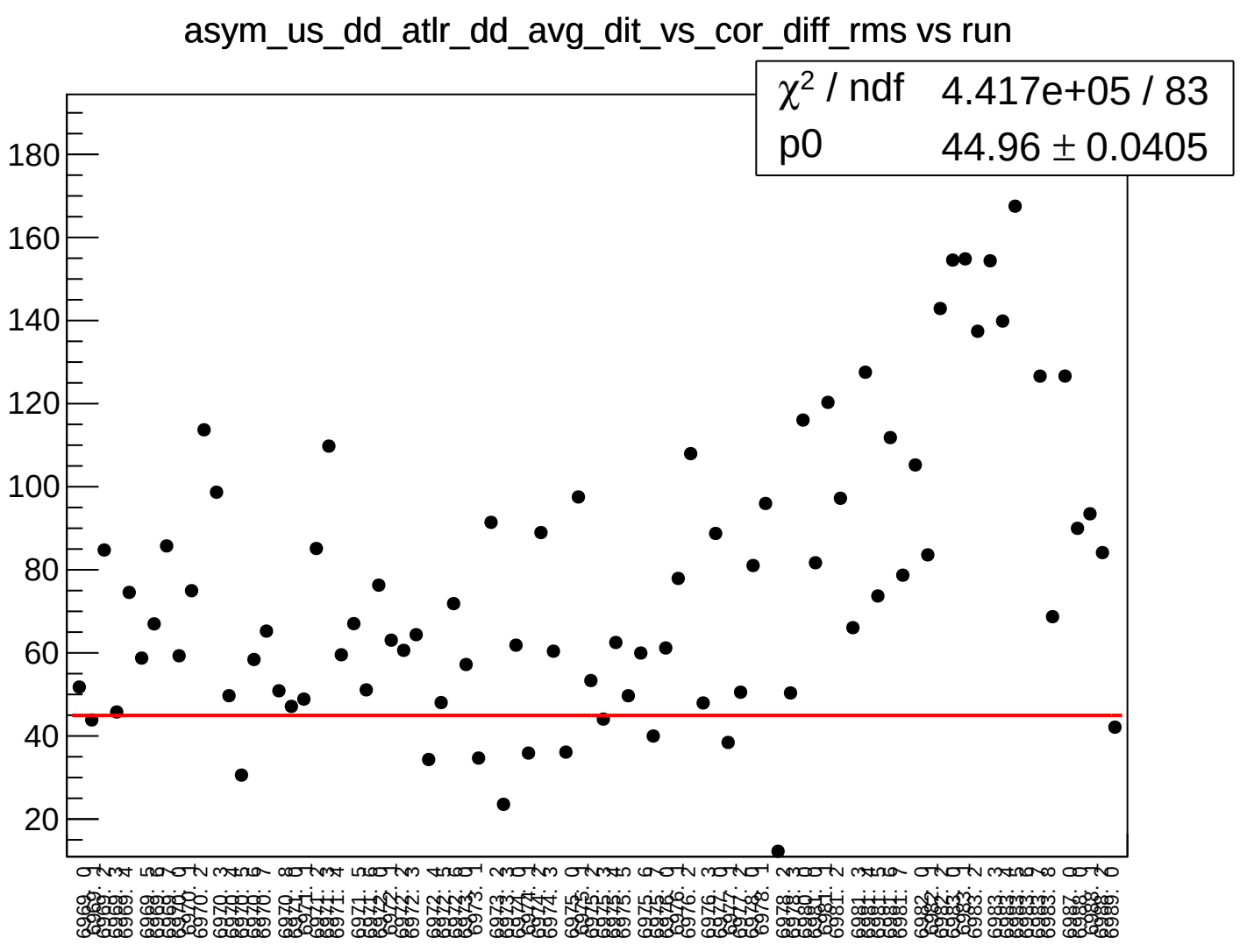

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.48 / 83
p0 9.35e−14 ± 4.516e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 67.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

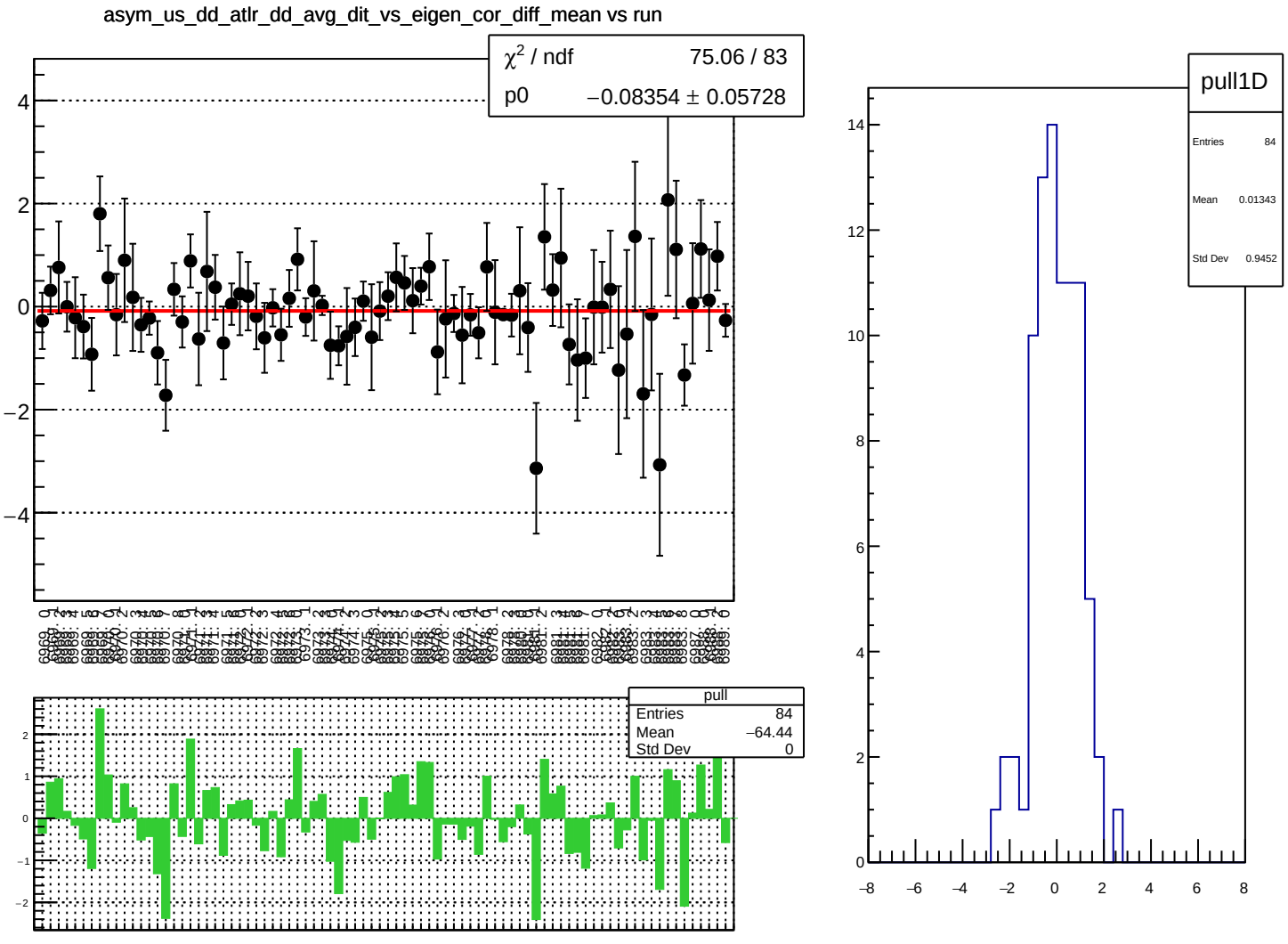

pull1D
Entries 84
Mean −0.07652
Std Dev 0.9758
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

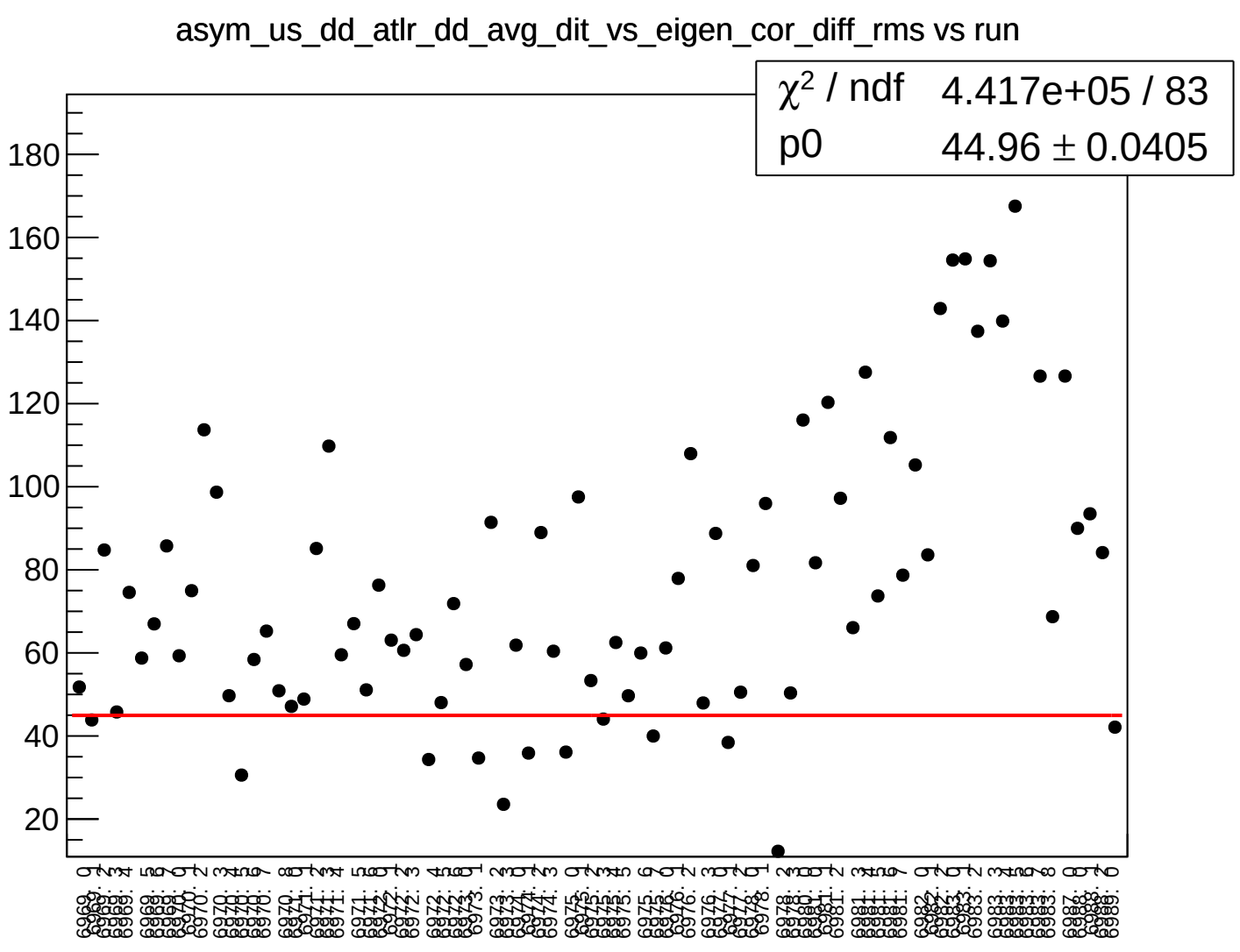

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.037e+06 / 83
p0 2.548e−11 ± 3.193e−14
1
0.8
0.6
0.4
0.2
0

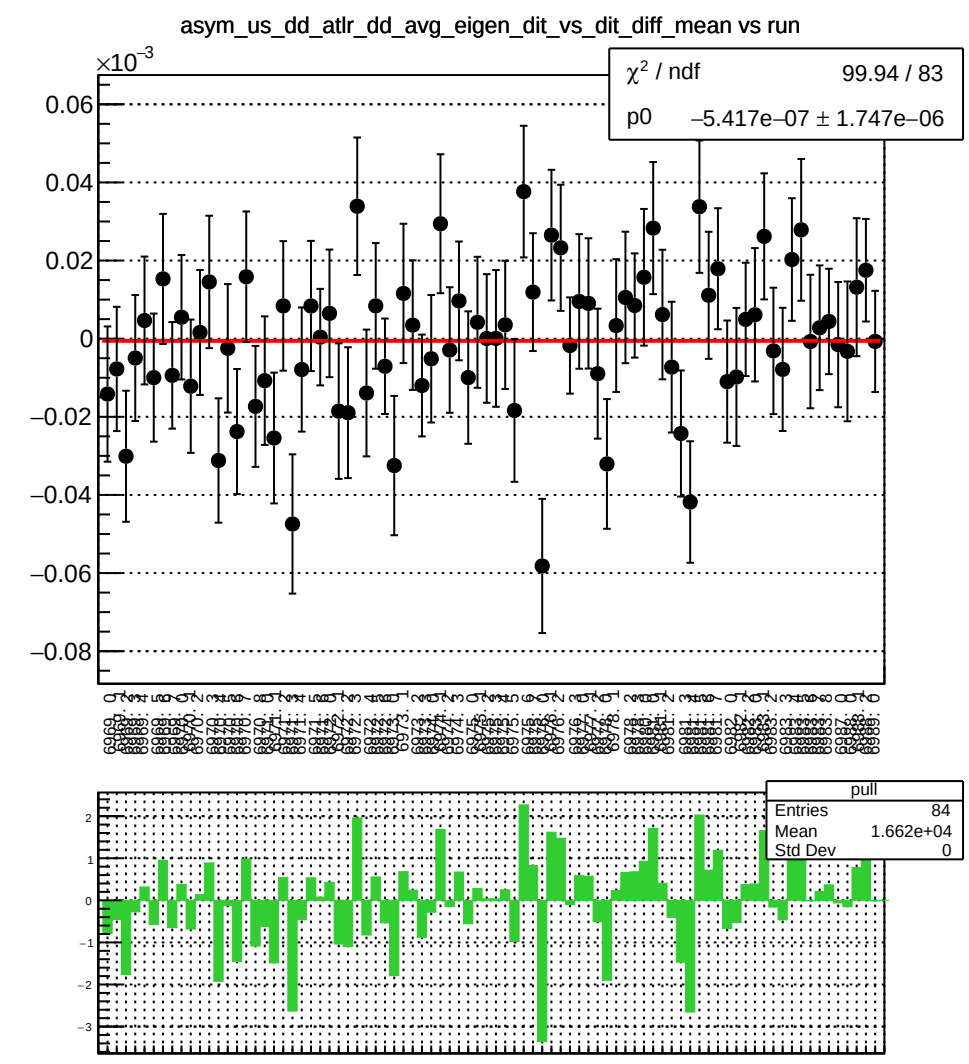

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.06 / 83
p0 −0.08354 ± 0.05728
pull
Entries 84
Mean −64.44
Std Dev 0

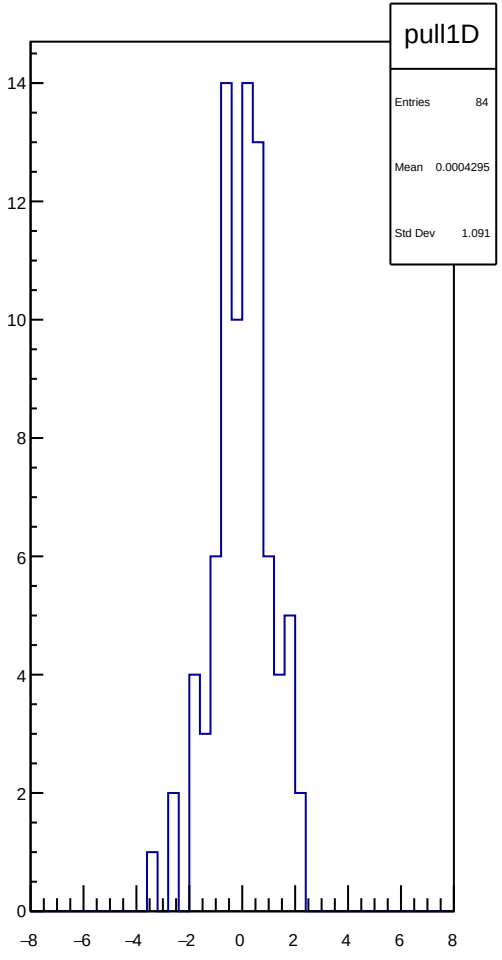

pull1D
Entries 84
Mean 0.01343
Std Dev 0.9452

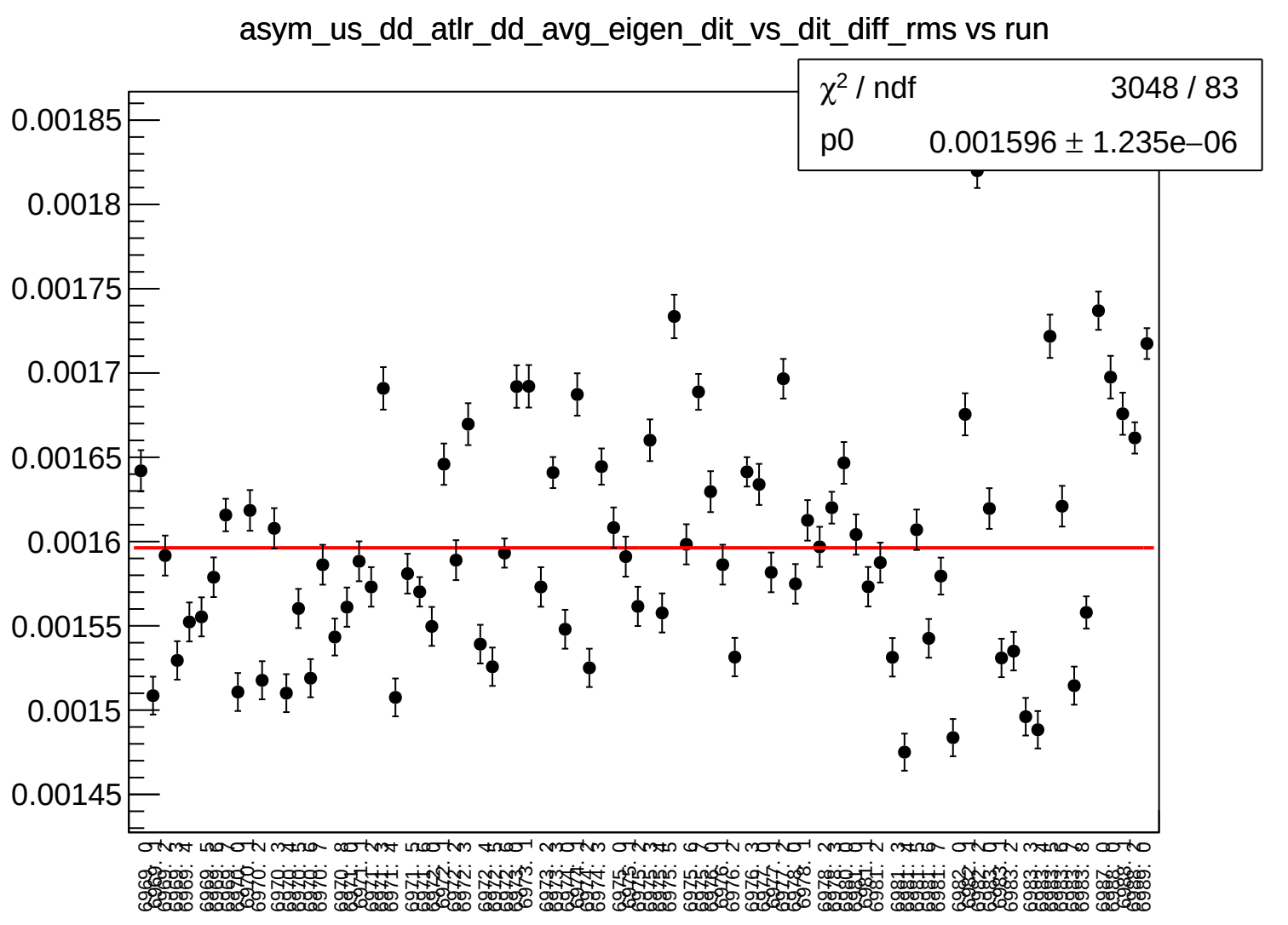

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.417e+05 / 83
p0 44.96 ± 0.0405
180
160
140
120
100
80
60
40
20

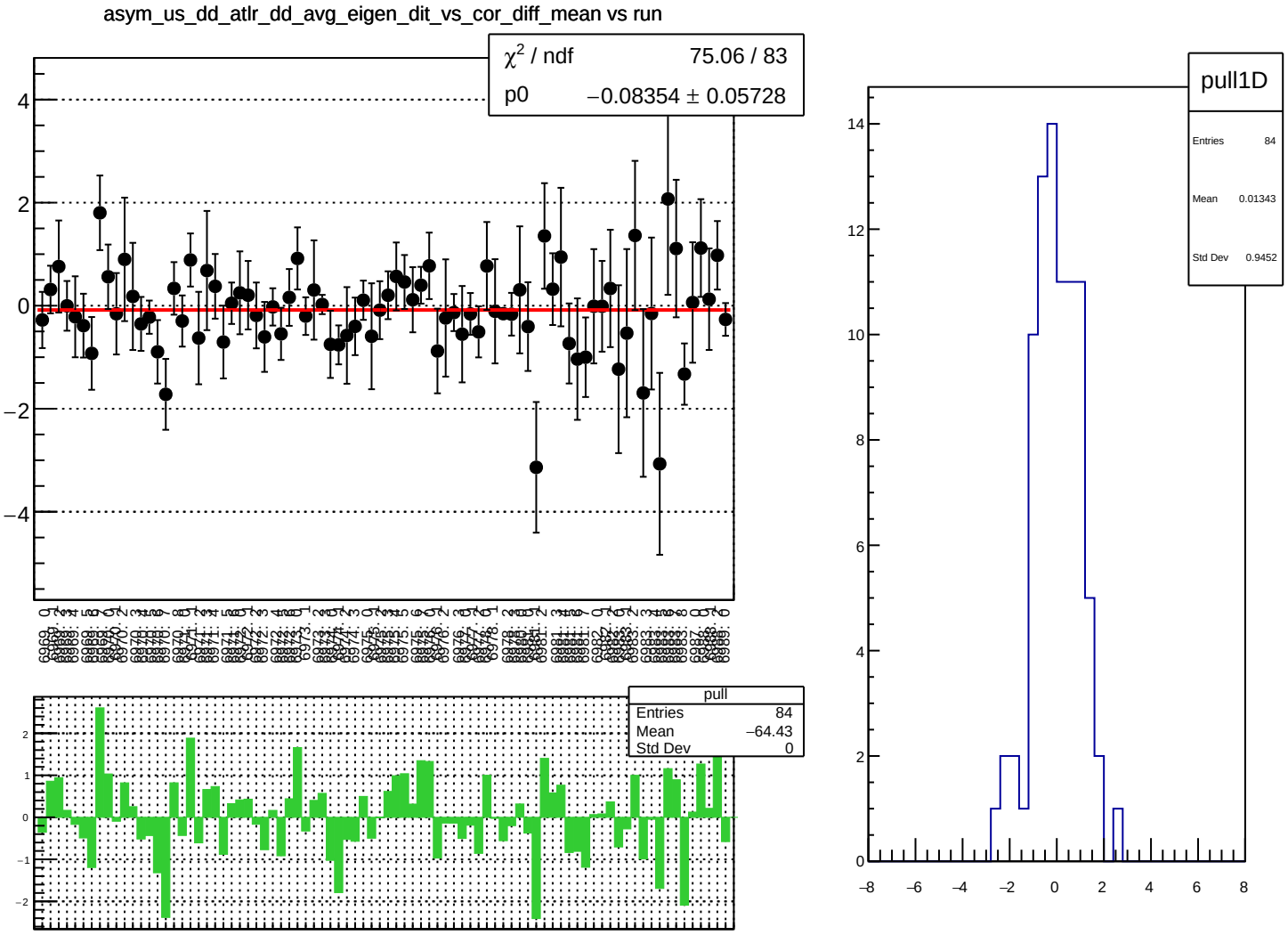

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.06 / 83
p0 −0.08354 ± 0.05728
pull
Entries 84
Mean −64.44
Std Dev 0
pull1D
Entries 84
Mean 0.01343
Std Dev 0.9452

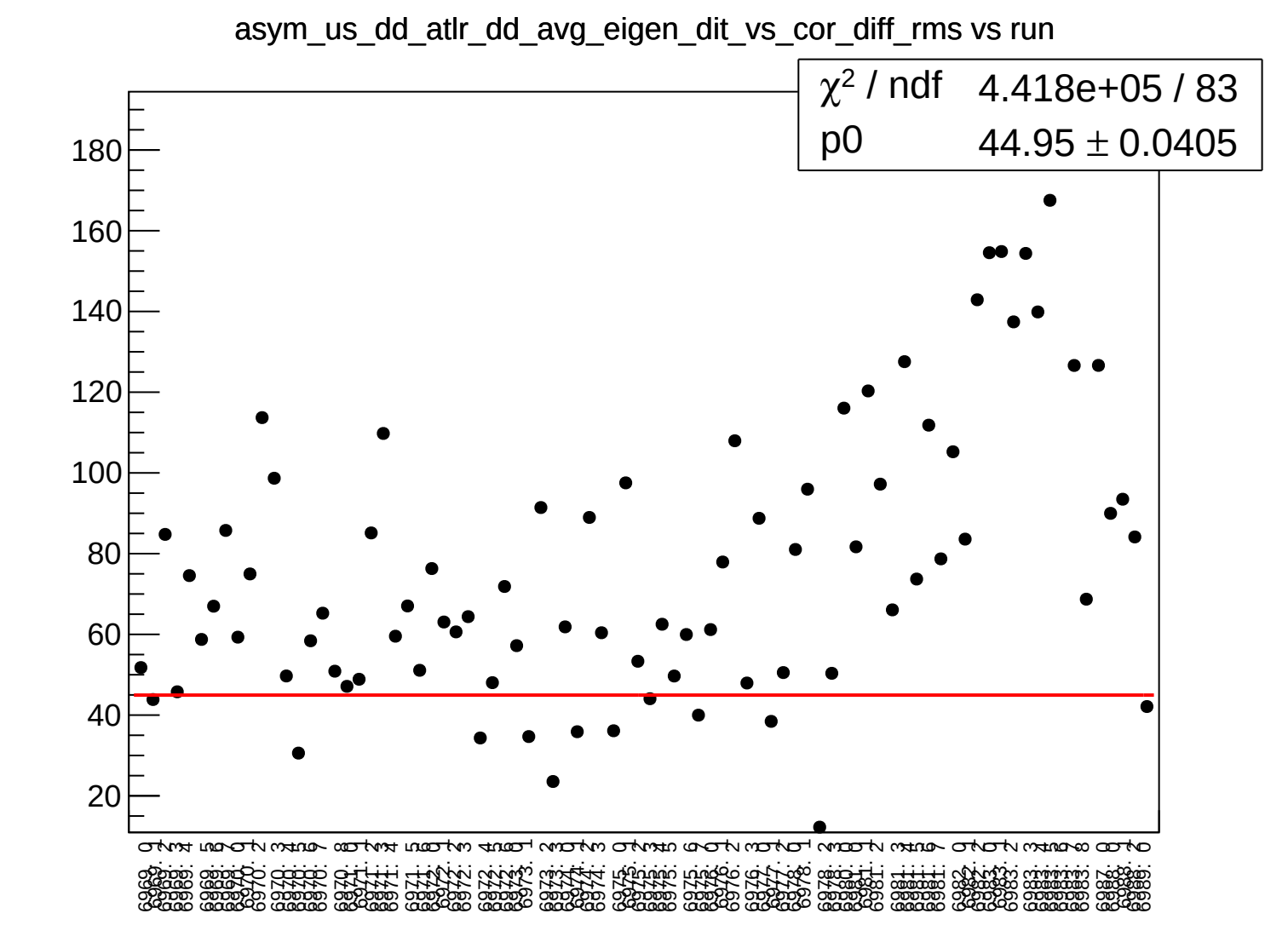

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.417e+05 / 83
p0 44.96 ± 0.0405
180
160
140
120
100
80
60
40
20

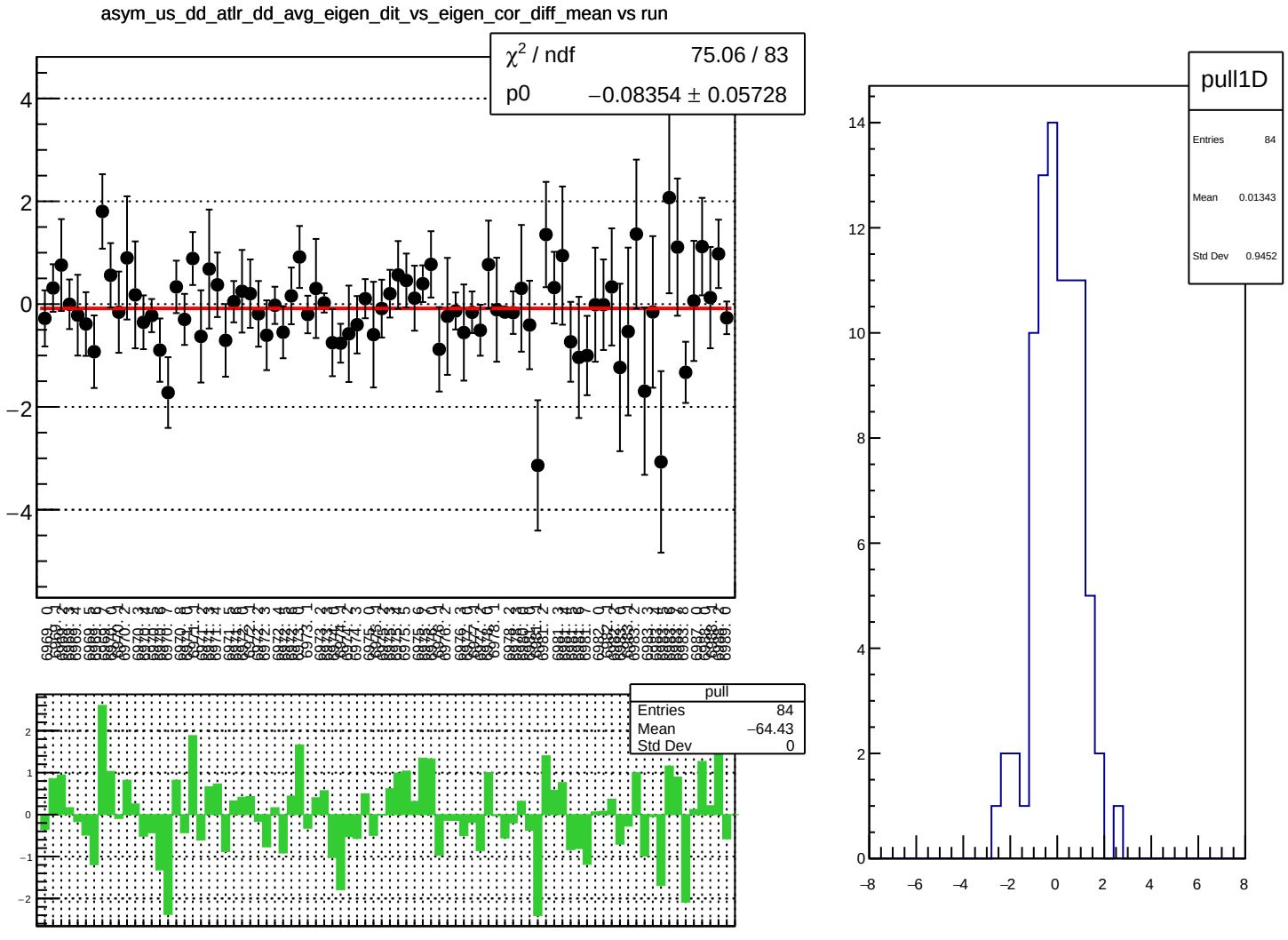

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.94 / 83
p0 −5.417e−07 ± 1.747e−06
pull
Entries 84
Mean 1.662e+04
Std Dev 0

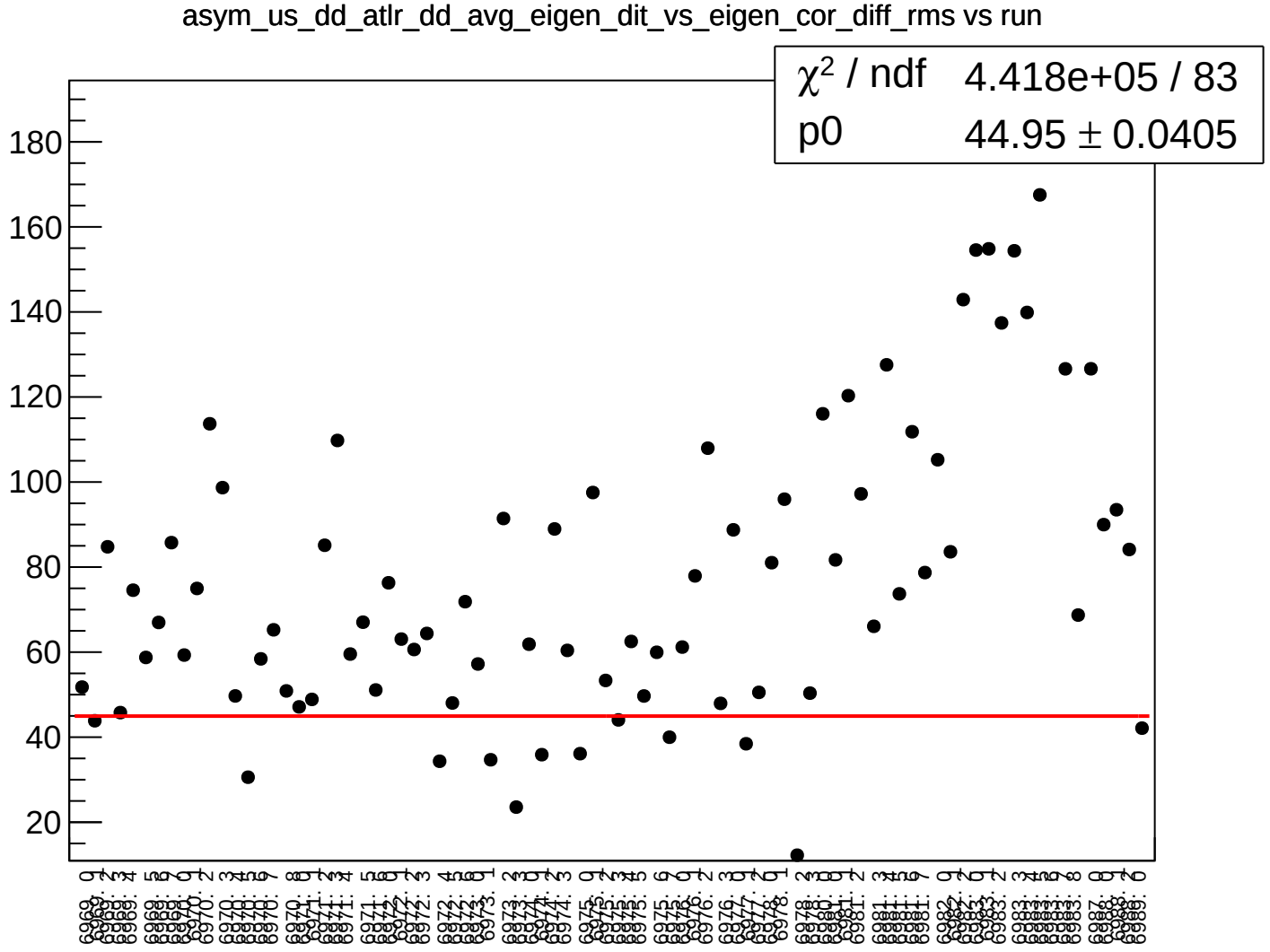

pull1D
Entries 84
Mean 0.0004295
Std Dev 1.091

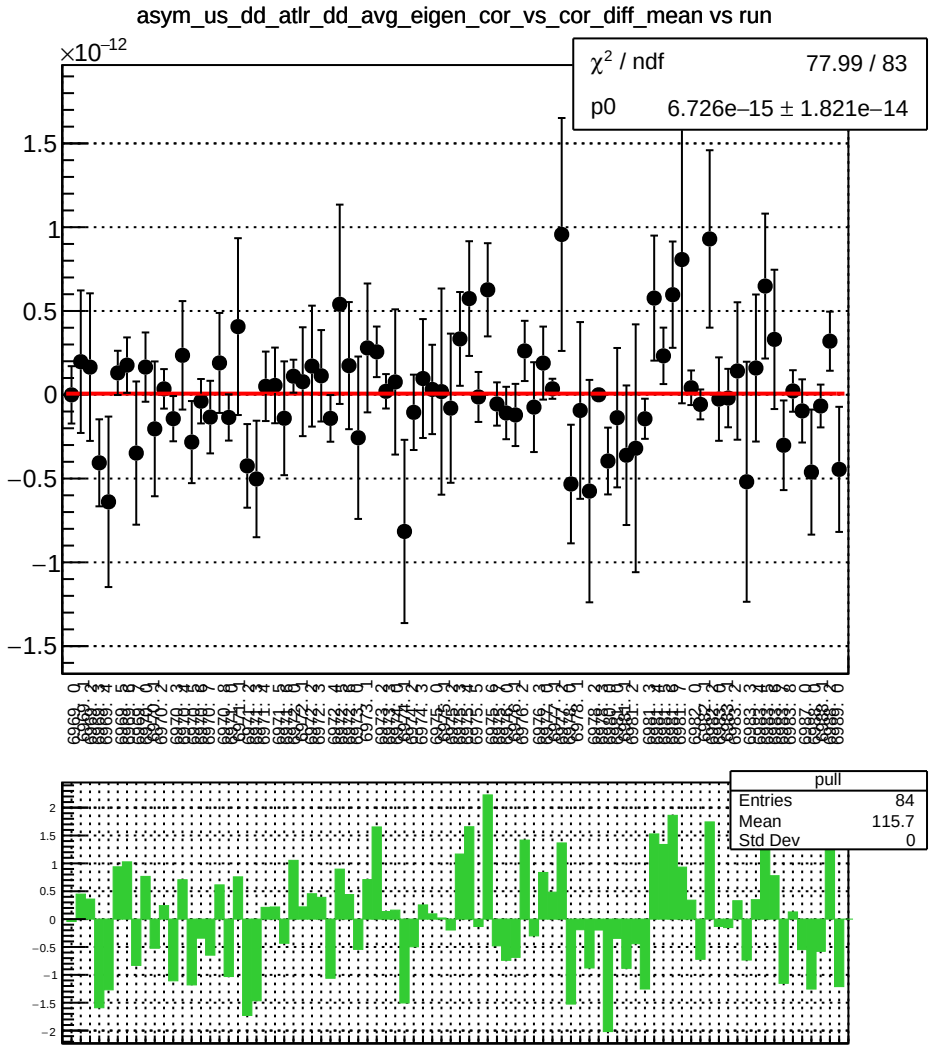

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3048 / 83
p0 0.001596 ± 1.235e−06
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

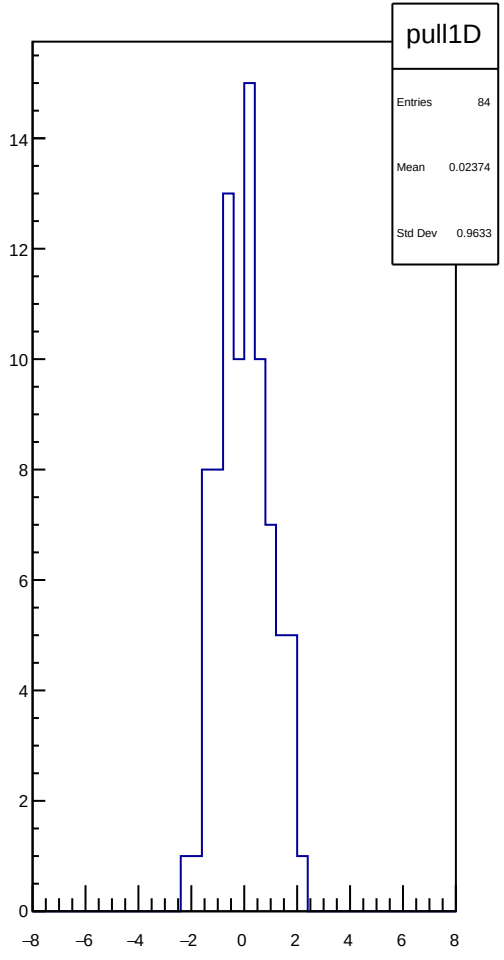

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.06 / 83
p0 −0.08354 ± 0.05728
pull
Entries 84
Mean −64.43
Std Dev 0
pull1D
Entries 84
Mean 0.01343
Std Dev 0.9452

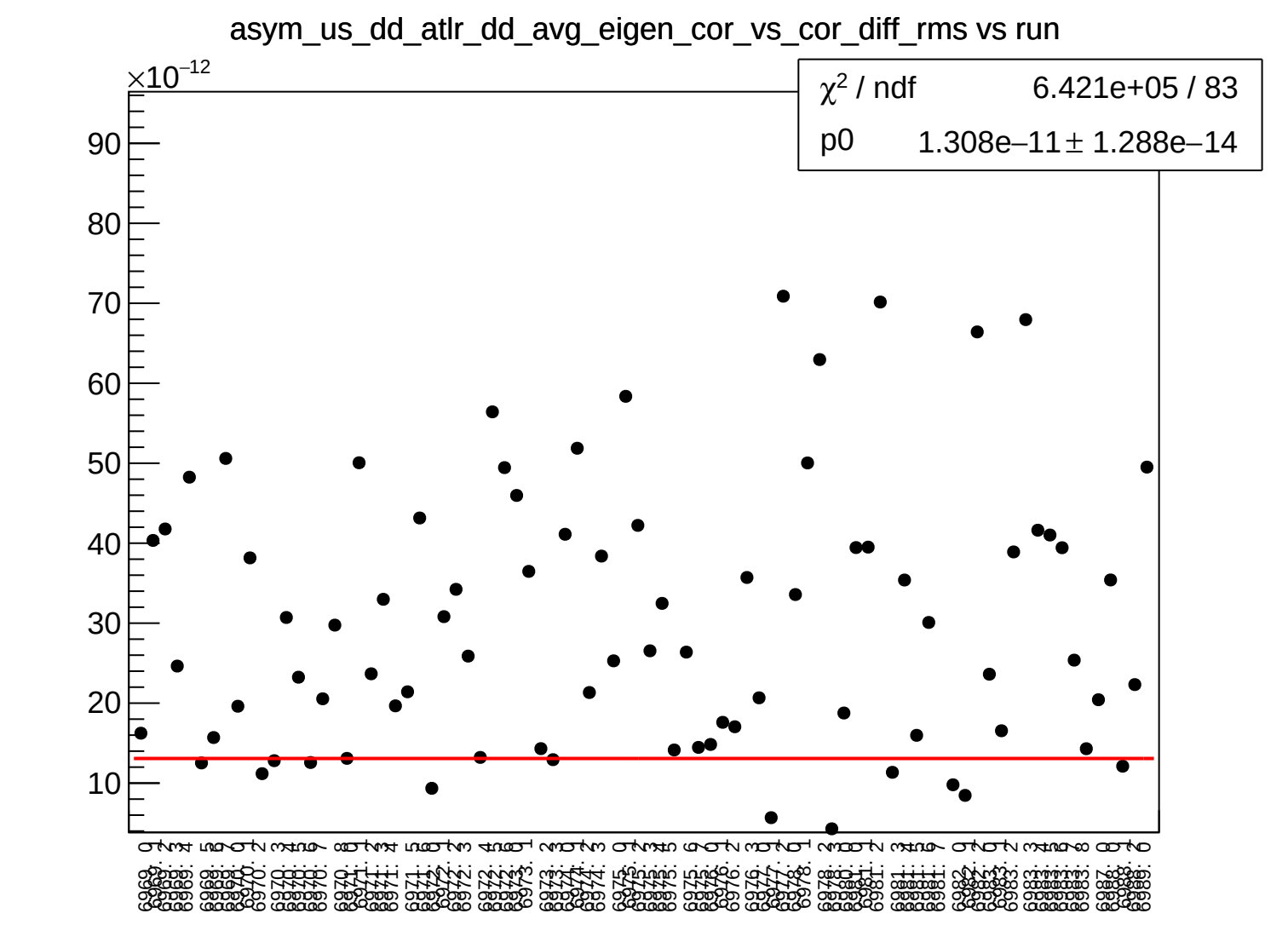

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.418e+05 / 83
p0 44.95 ± 0.0405
180
160
140
120
100
80
60
40
20

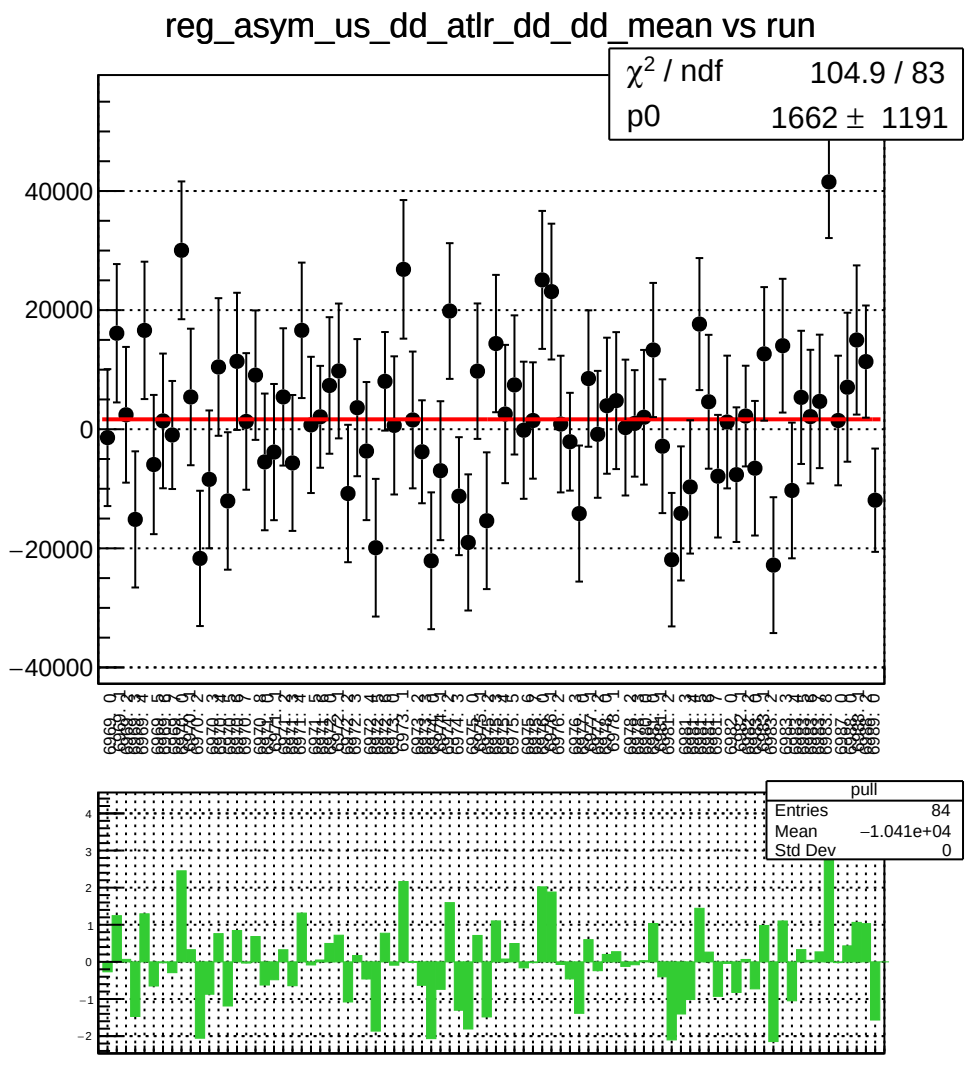

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.06 / 83
p0 −0.08354 ± 0.05728
pull
Entries 84
Mean −64.43
Std Dev 0
pull1D
Entries 84
Mean 0.01343
Std Dev 0.9452

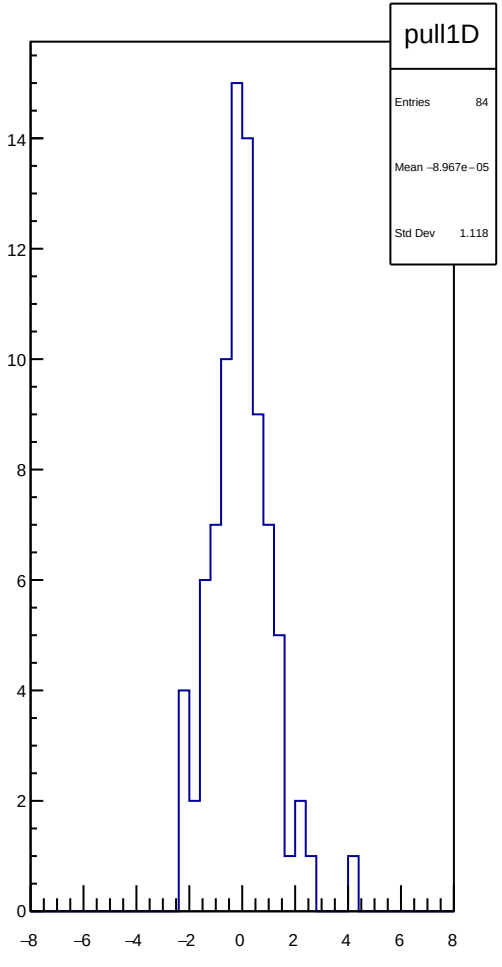

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.418e+05 / 83
p0 44.95 ± 0.0405
180
160
140
120
100
80
60
40
20

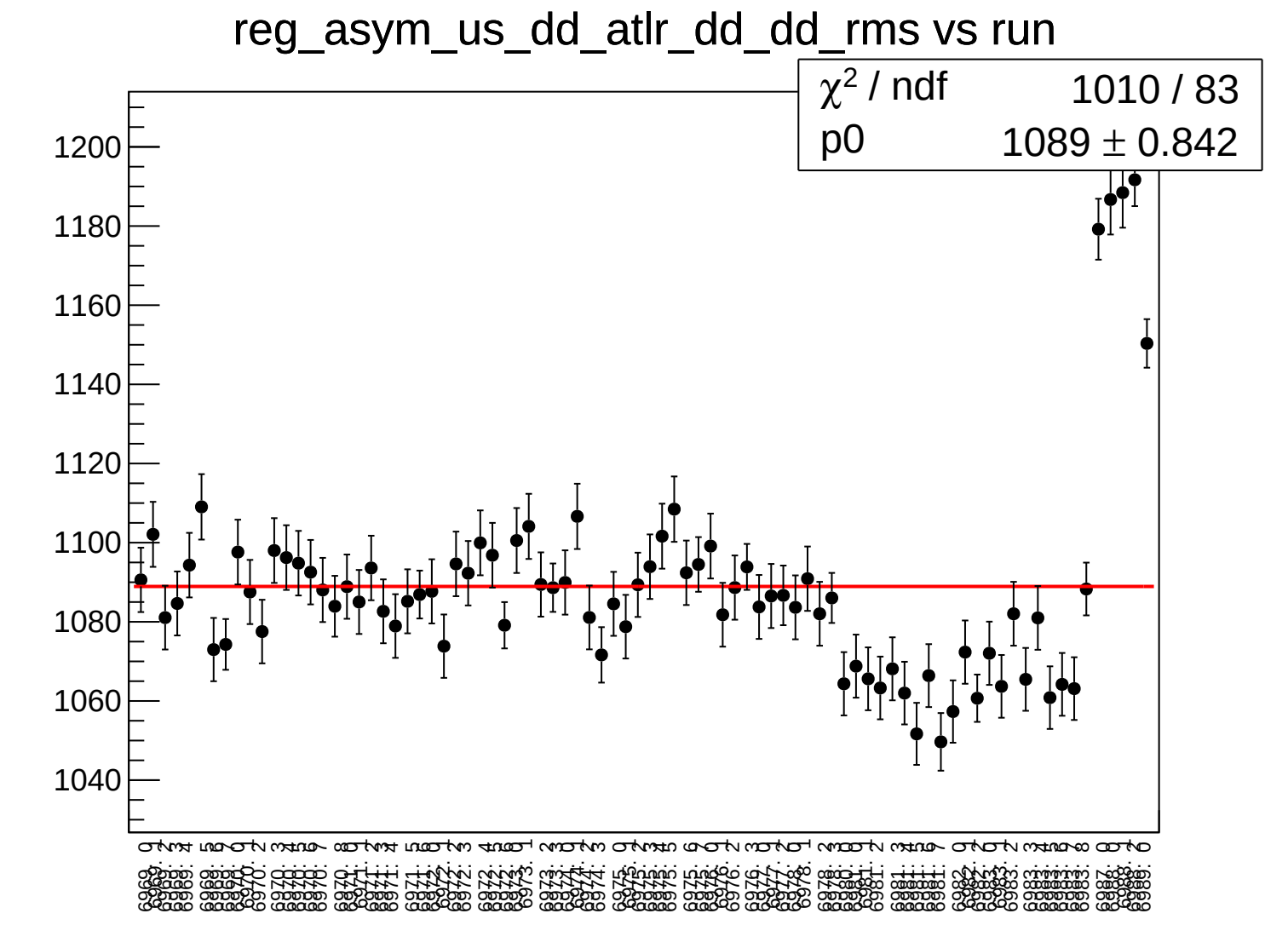

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.99 / 83
p0 6.726e−15 ± 1.821e−14
pull
Entries 84
Mean 115.7
Std Dev 0

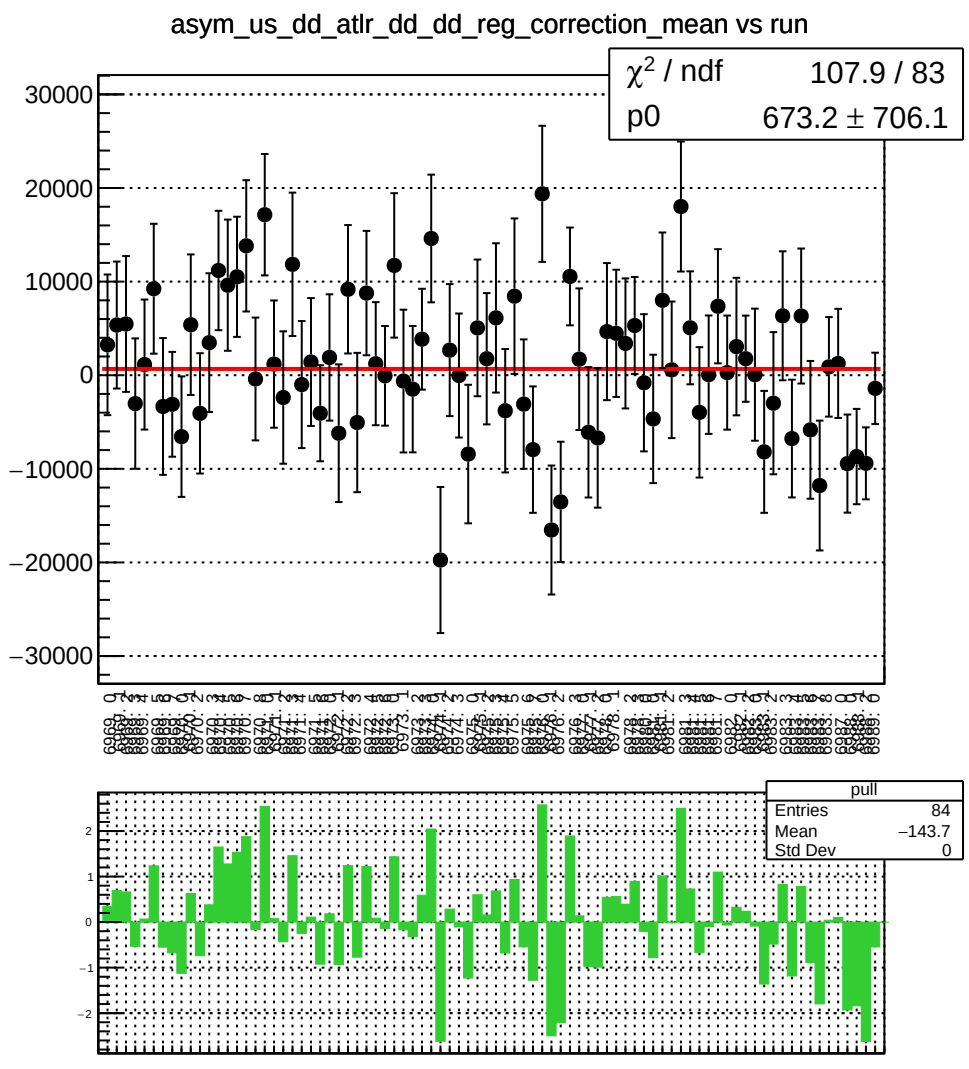

pull1D
Entries 84
Mean 0.02374
Std Dev 0.9633

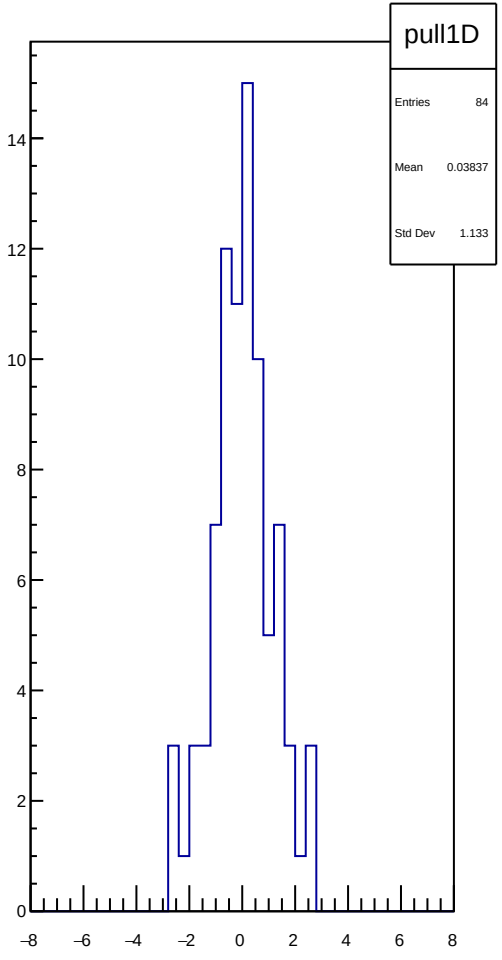

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.421e+05 / 83
p0 1.308e−11 ± 1.288e−14
90
80
70
60
50
40
30
20
10

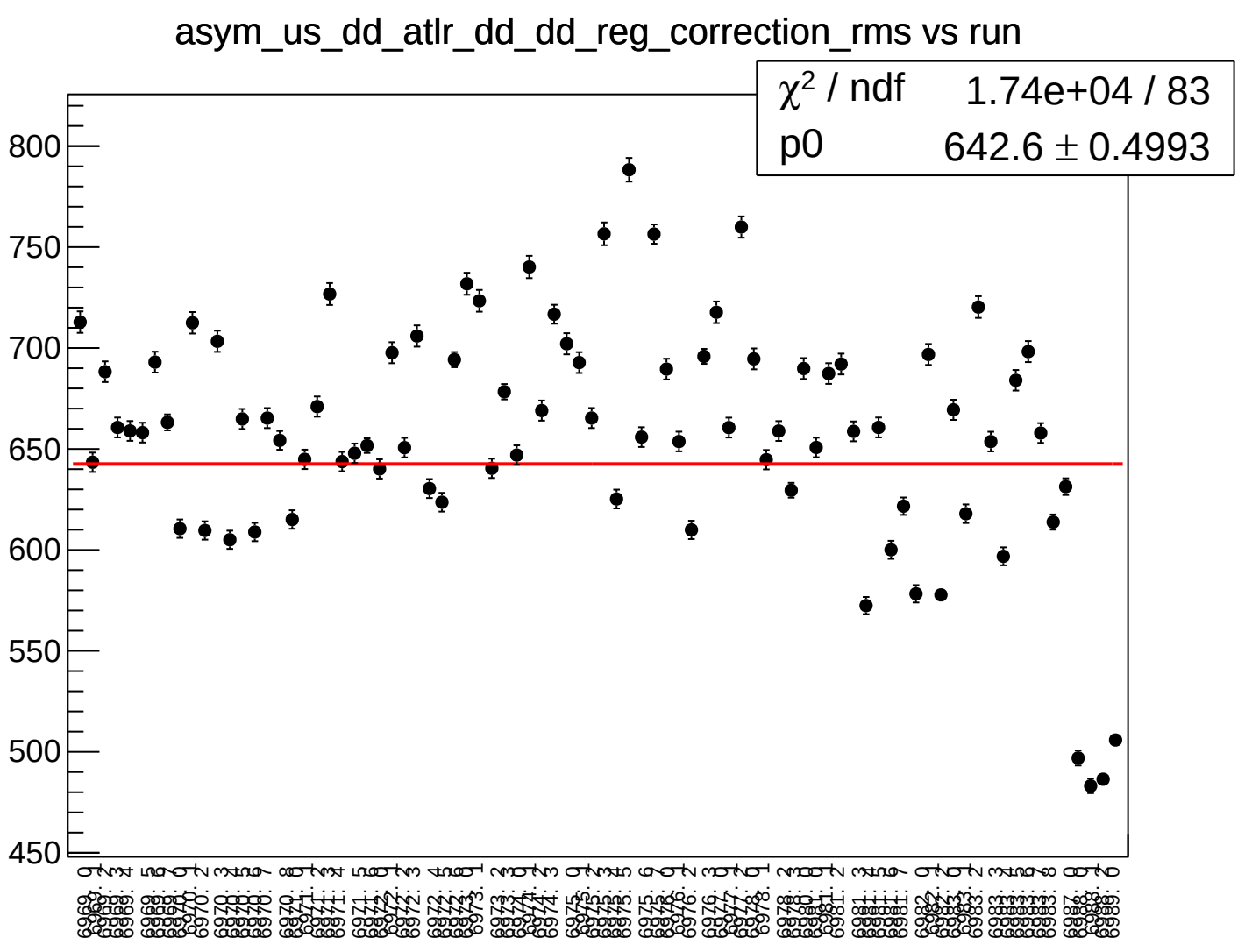

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 104.9 / 83
p0 1662 ± 1191
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −1.041e+04
Std Dev 0
4
3
2
1
0
−1
−2

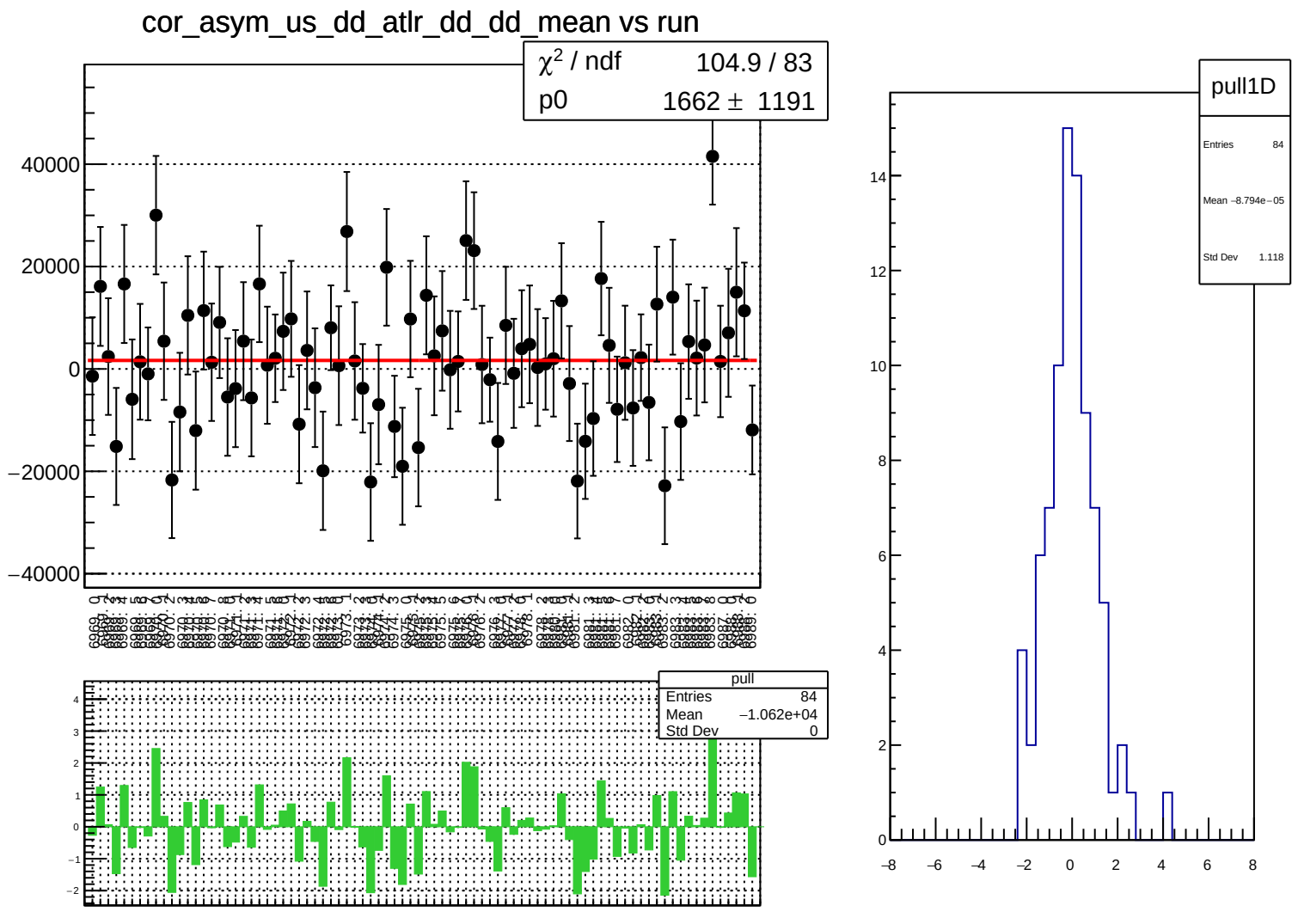

pull1D
Entries 84
Mean −8.967e−05
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

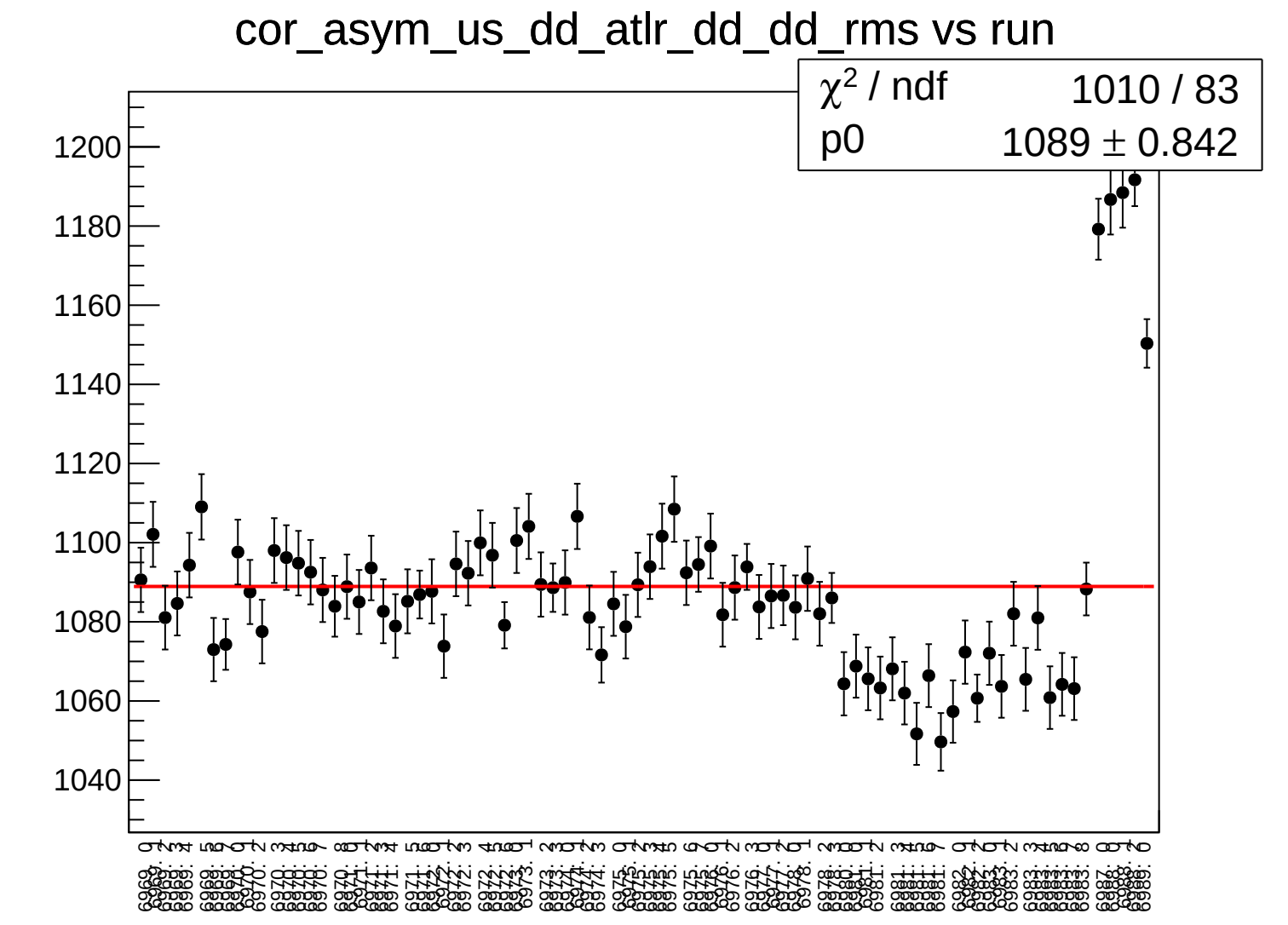

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1010 / 83
p0 1089 ± 0.842
1200
1180
1160
1140
1120
1100
1080
1060
1040

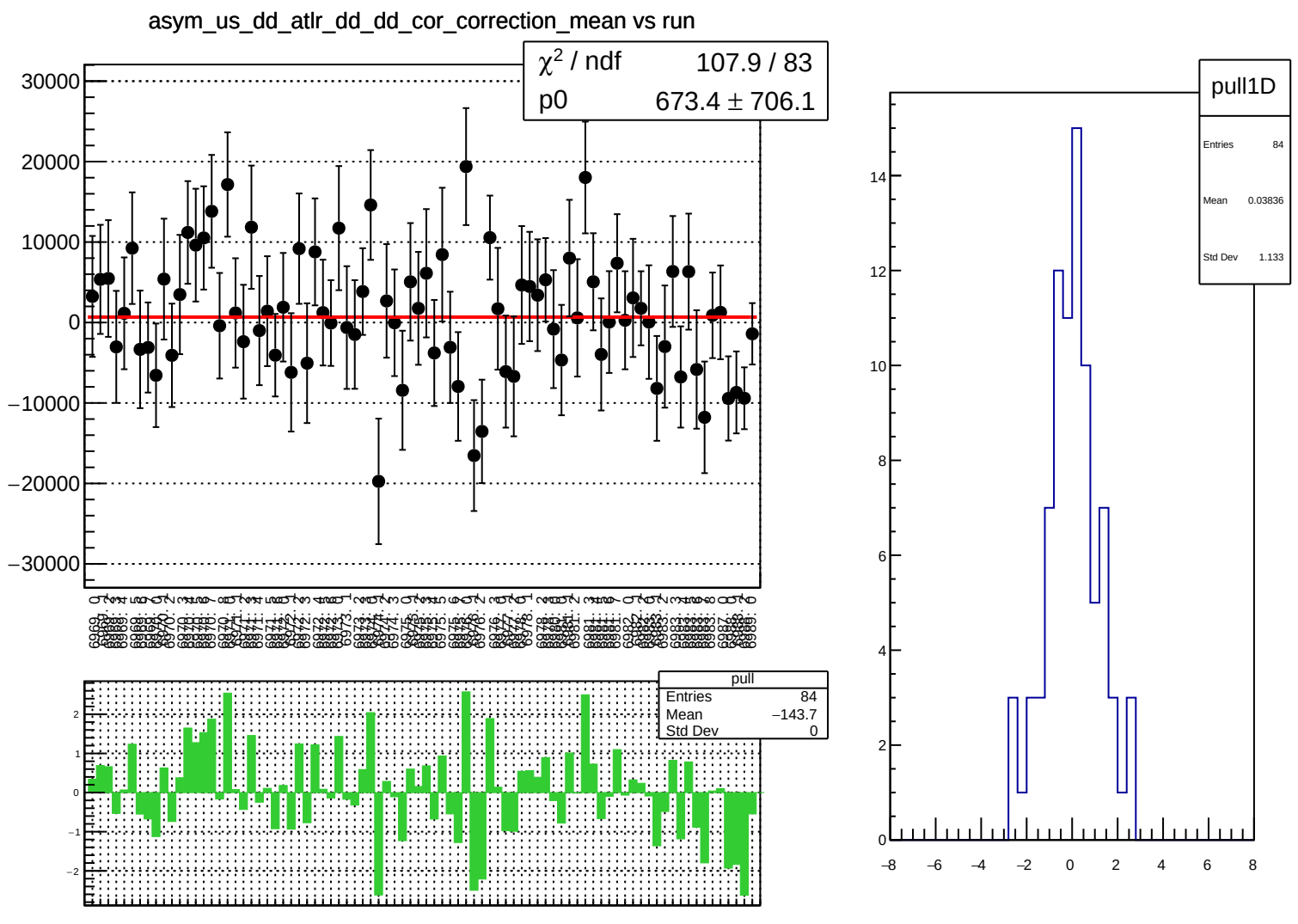

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 107.9 / 83
p0 673.2 ± 706.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −143.7
Std Dev 0
2
1
0
−1
−2

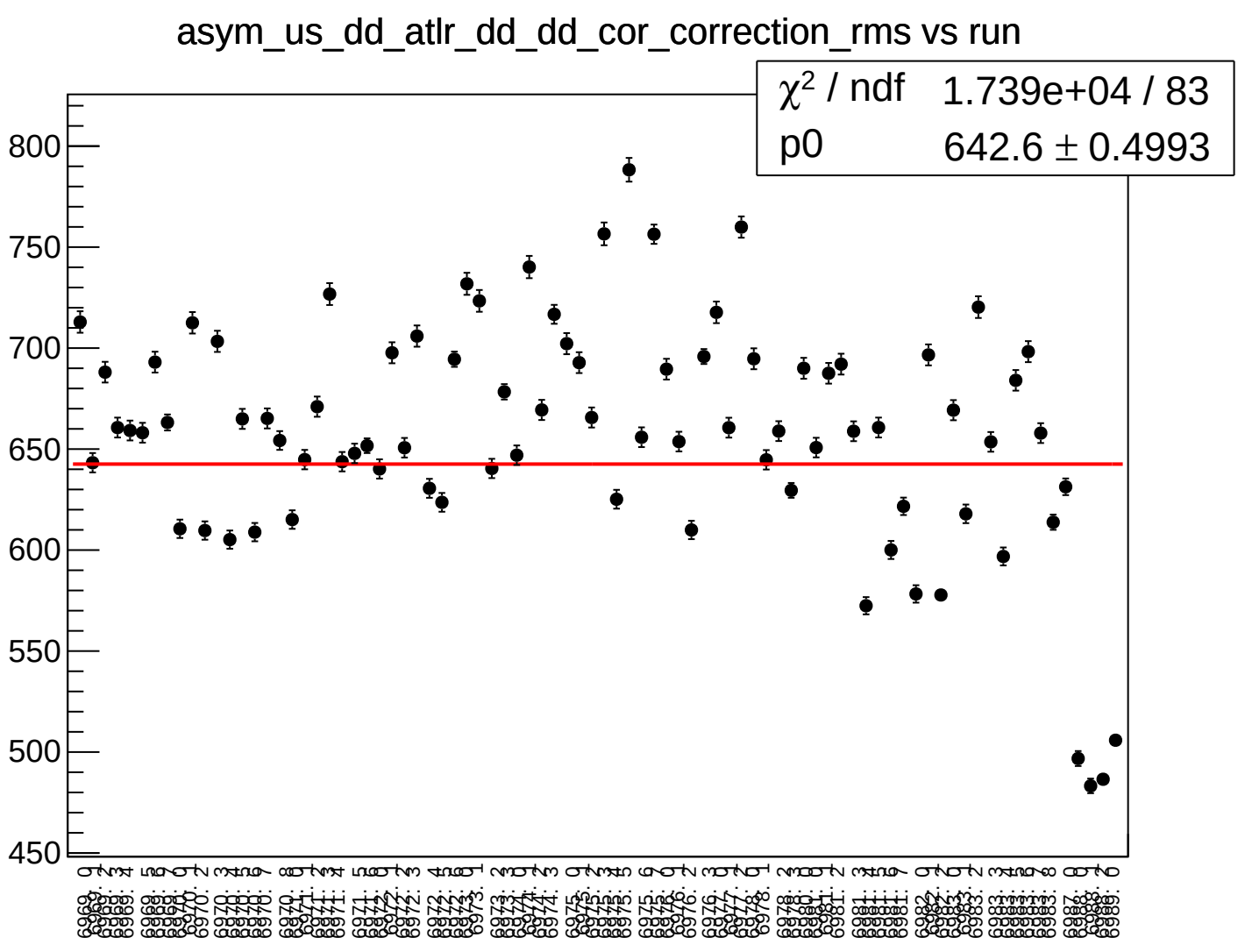

pull1D
Entries 84
Mean 0.03837
Std Dev 1.133
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

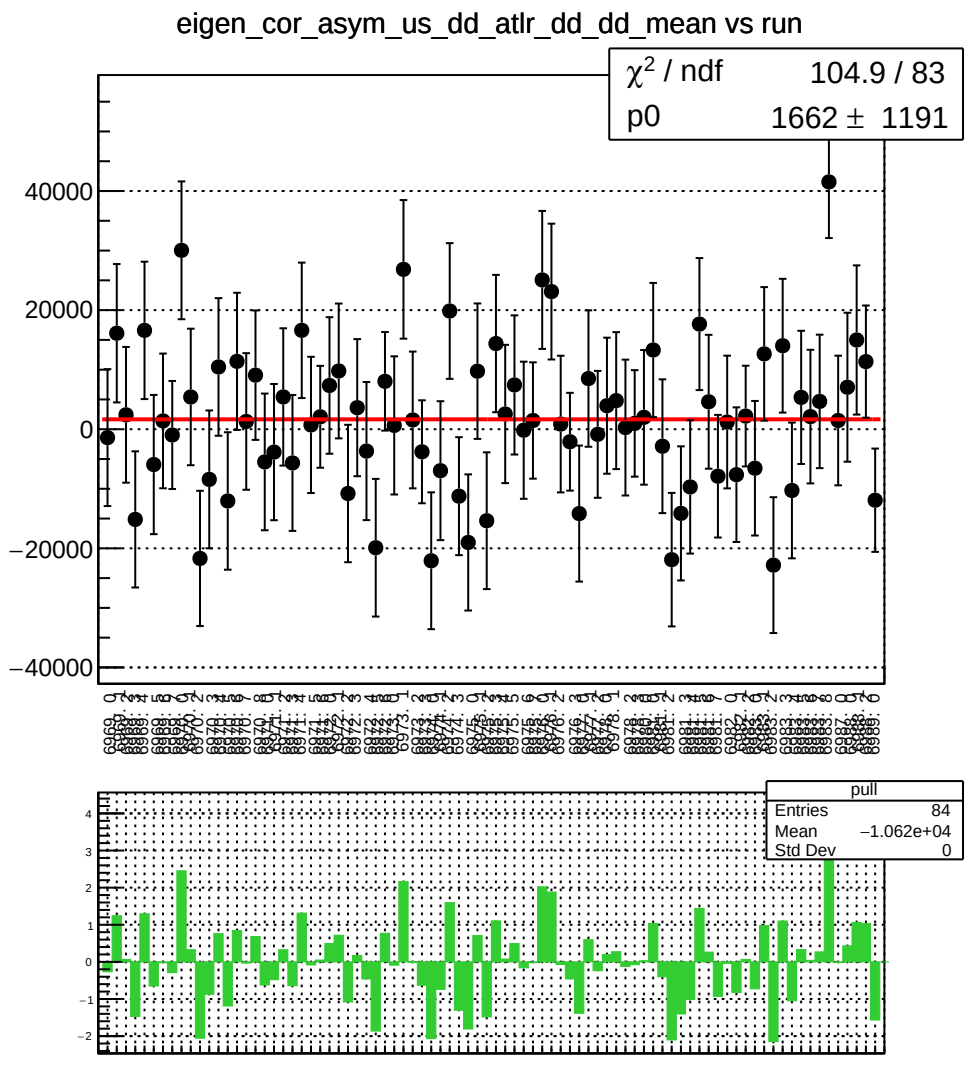

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.74e+04 / 83
p0 642.6 ± 0.4993
800
750
700
650
600
550
500
450

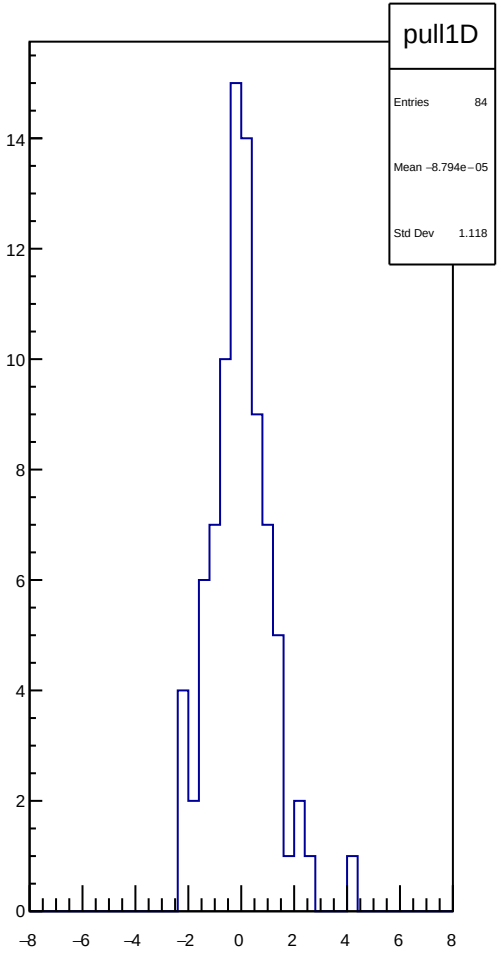

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 104.9 / 83
p0 1662 ± 1191
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −1.062e+04
Std Dev 0
pull1D
Entries 84
Mean −8.794e−05
Std Dev 1.118

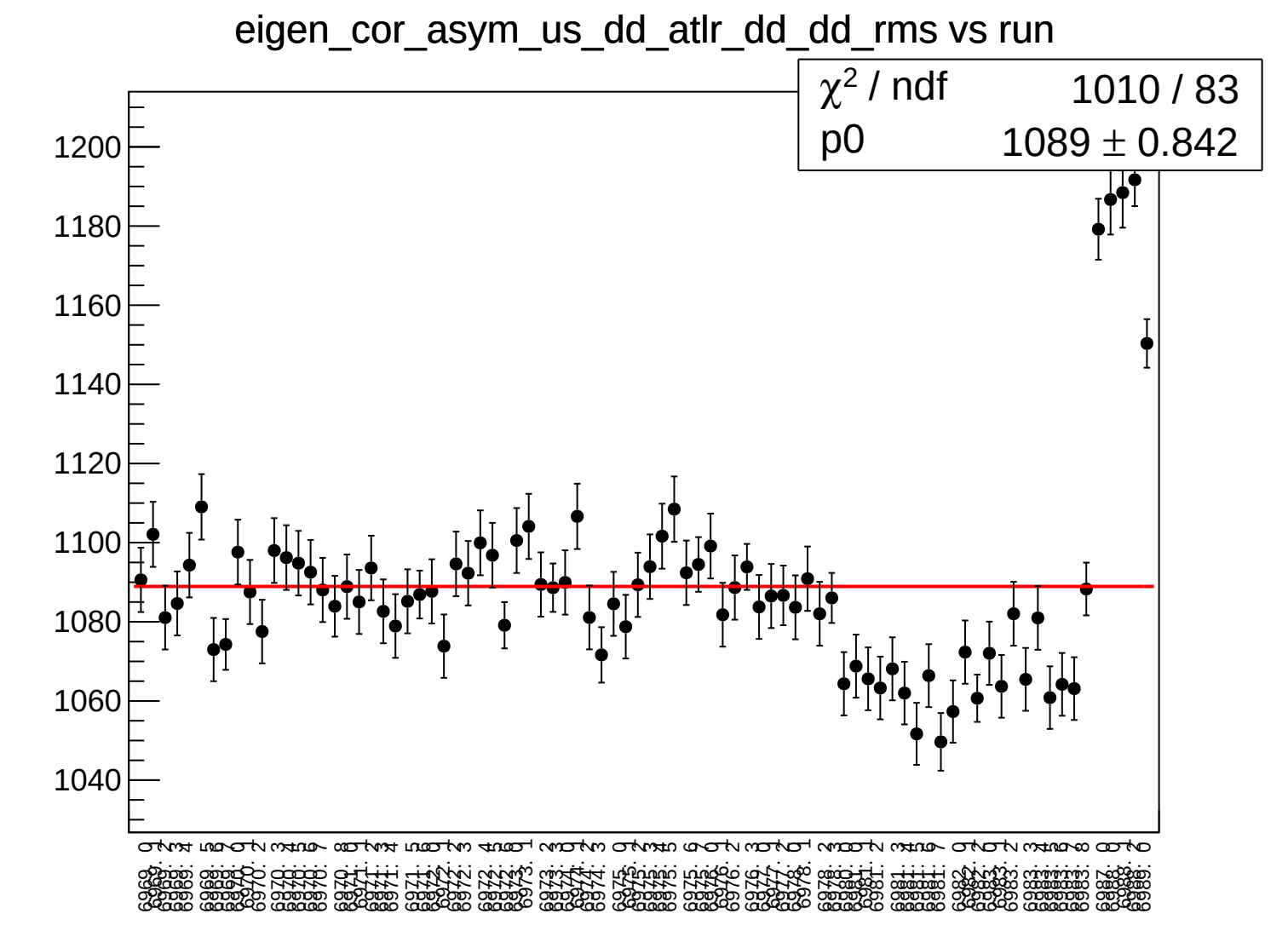

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1010 / 83
p0 1089 ± 0.842
1200
1180
1160
1140
1120
1100
1080
1060
1040

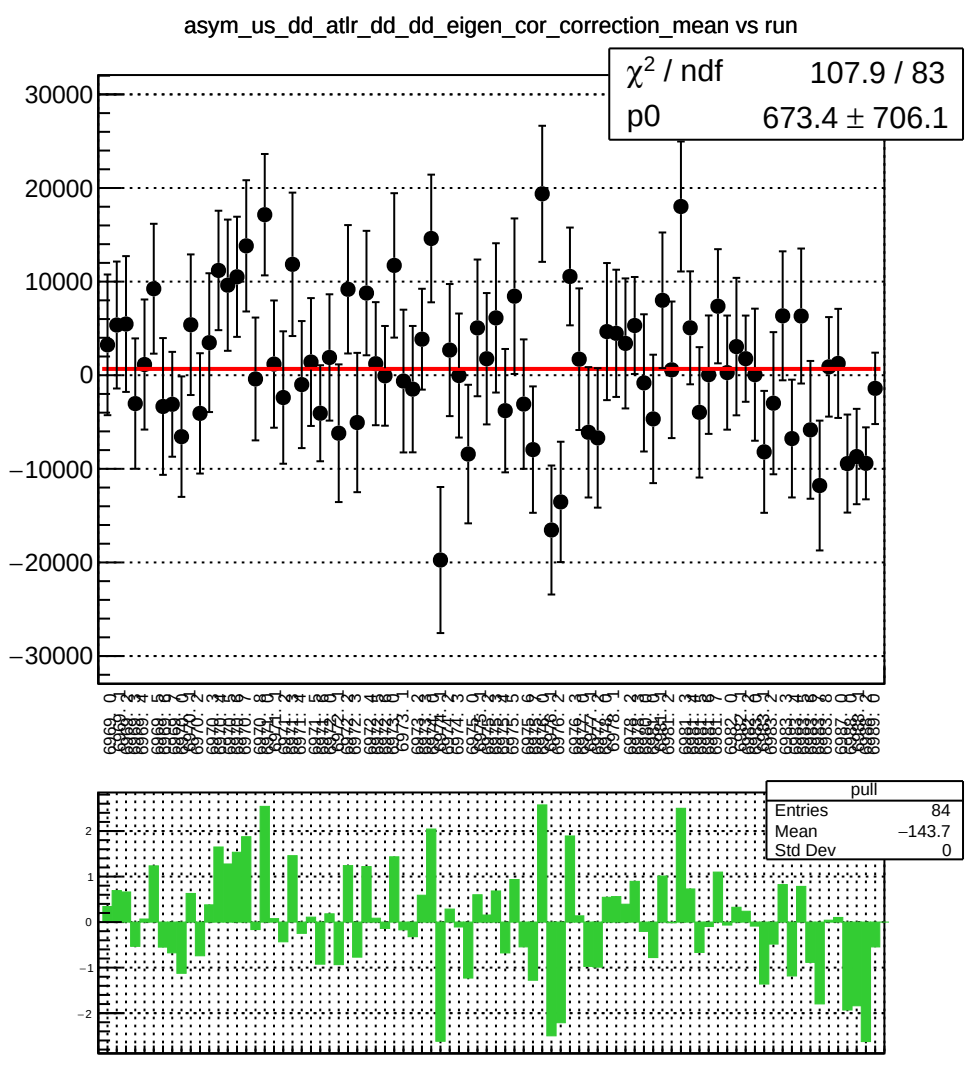

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 107.9 / 83
p0 673.4 ± 706.1
pull
Entries 84
Mean −143.7
Std Dev 0
pull1D
Entries 84
Mean 0.03836
Std Dev 1.133

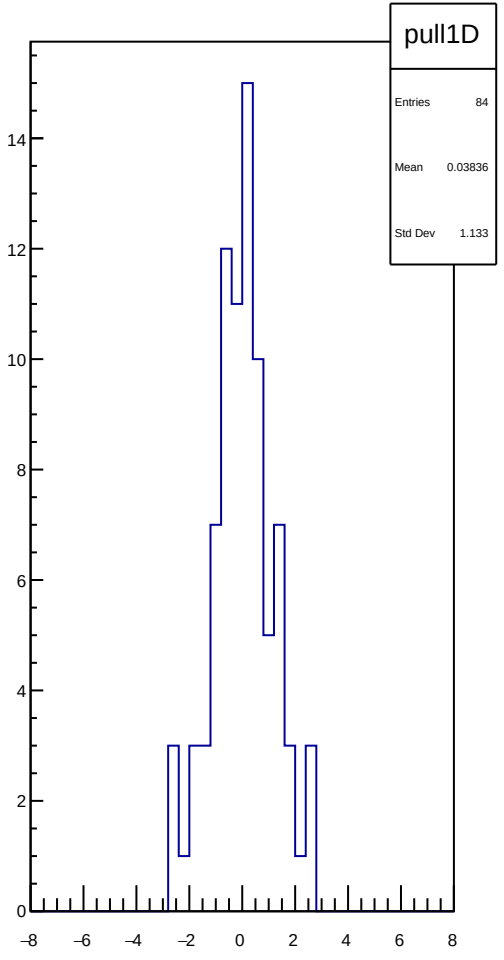

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.739e+04 / 83
p0 642.6 ± 0.4993
800
750
700
650
600
550
500
450

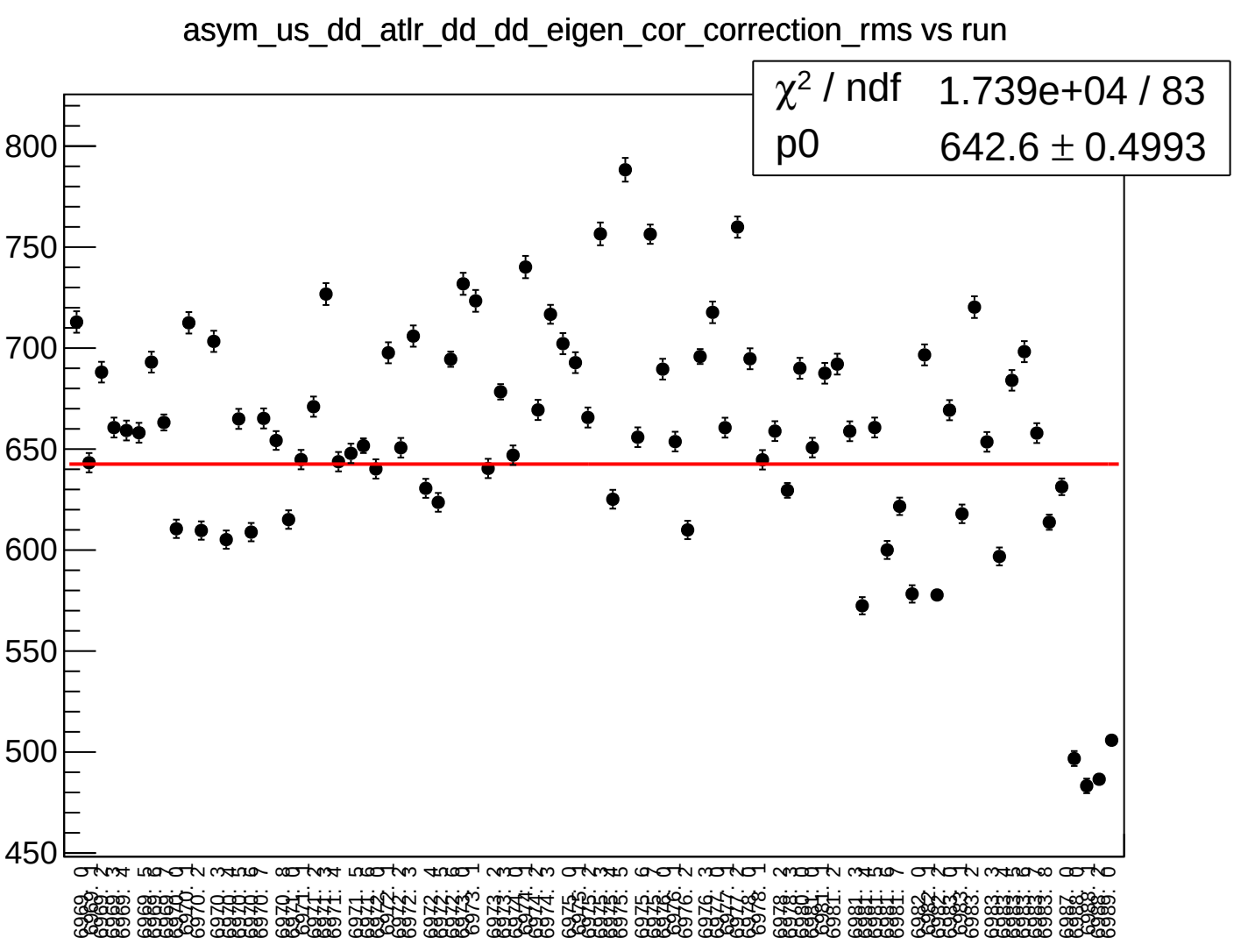

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 104.9 / 83
p0 1662 ± 1191
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −1.062e+04
Std Dev 0
4
3
2
1
0
−1
−2

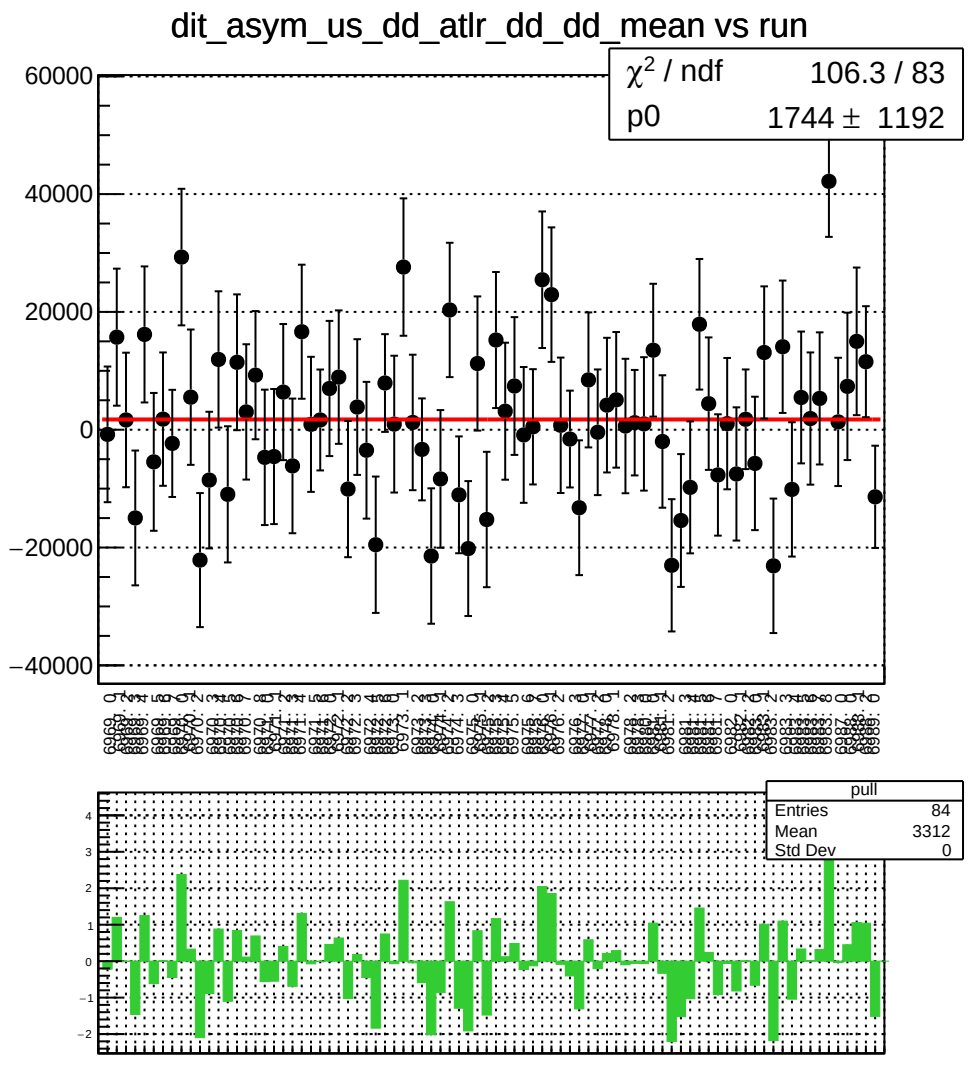

pull1D
Entries 84
Mean −8.794e−05
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

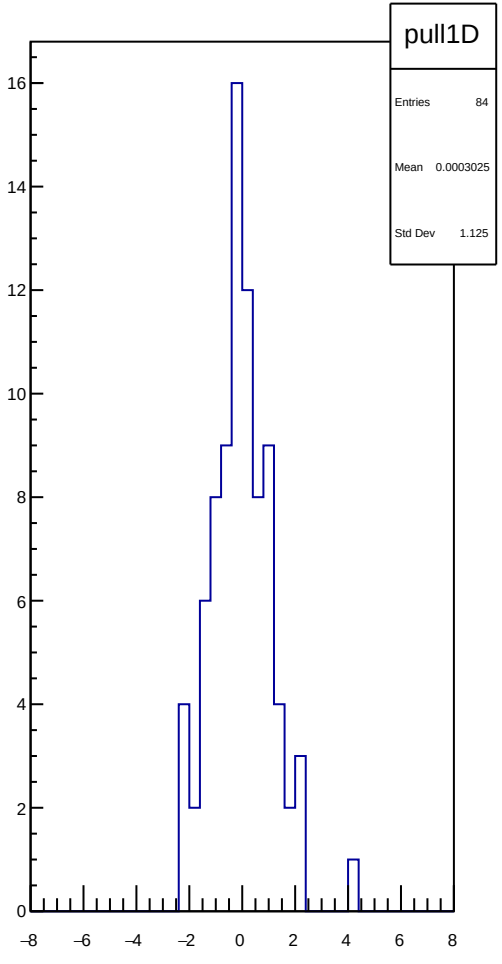

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1010 / 83
p0 1089 ± 0.842
1200
1180
1160
1140
1120
1100
1080
1060
1040

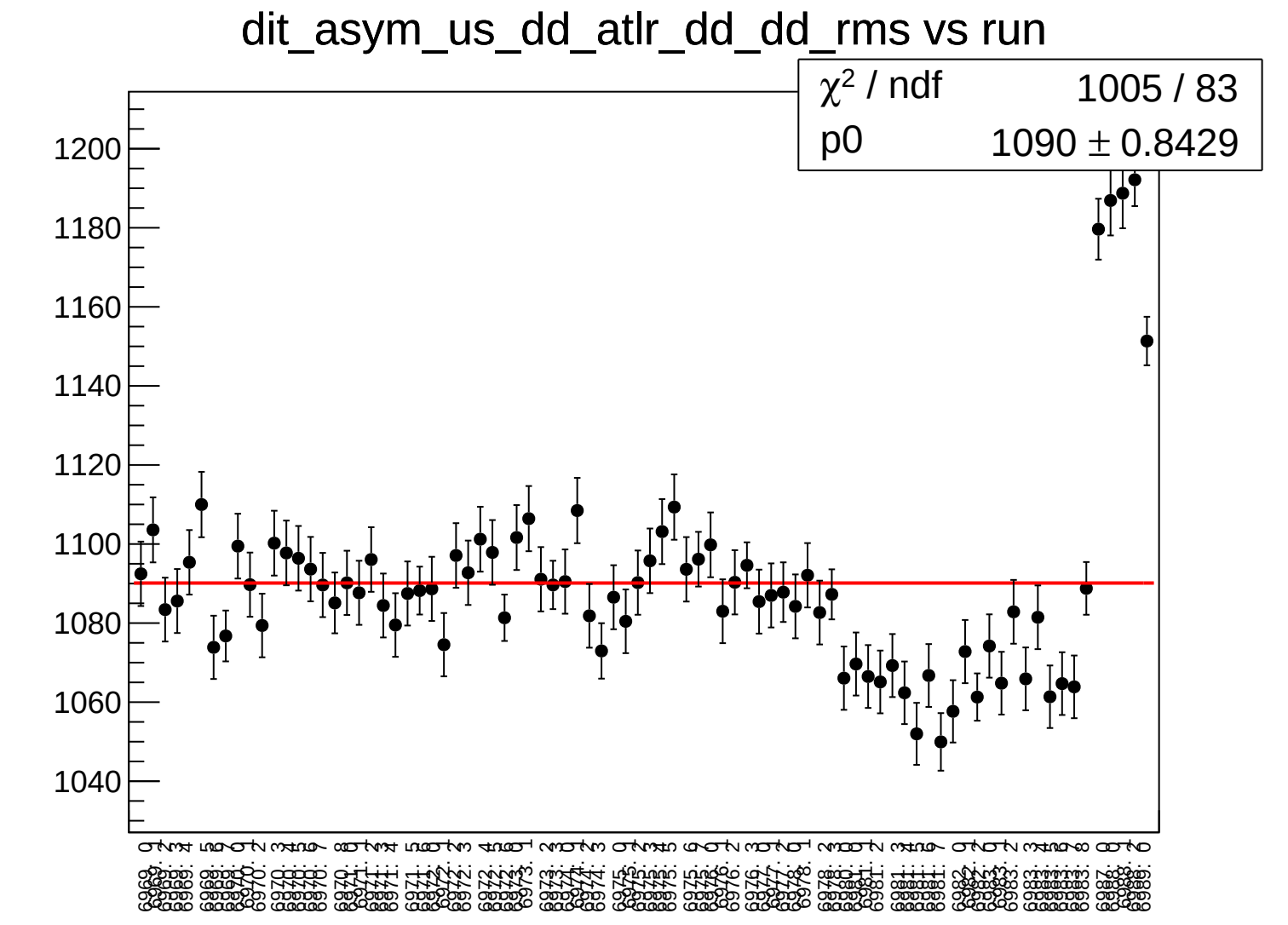

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 107.9 / 83
p0 673.4 ± 706.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −143.7
Std Dev 0
2
1
0
−1
−2

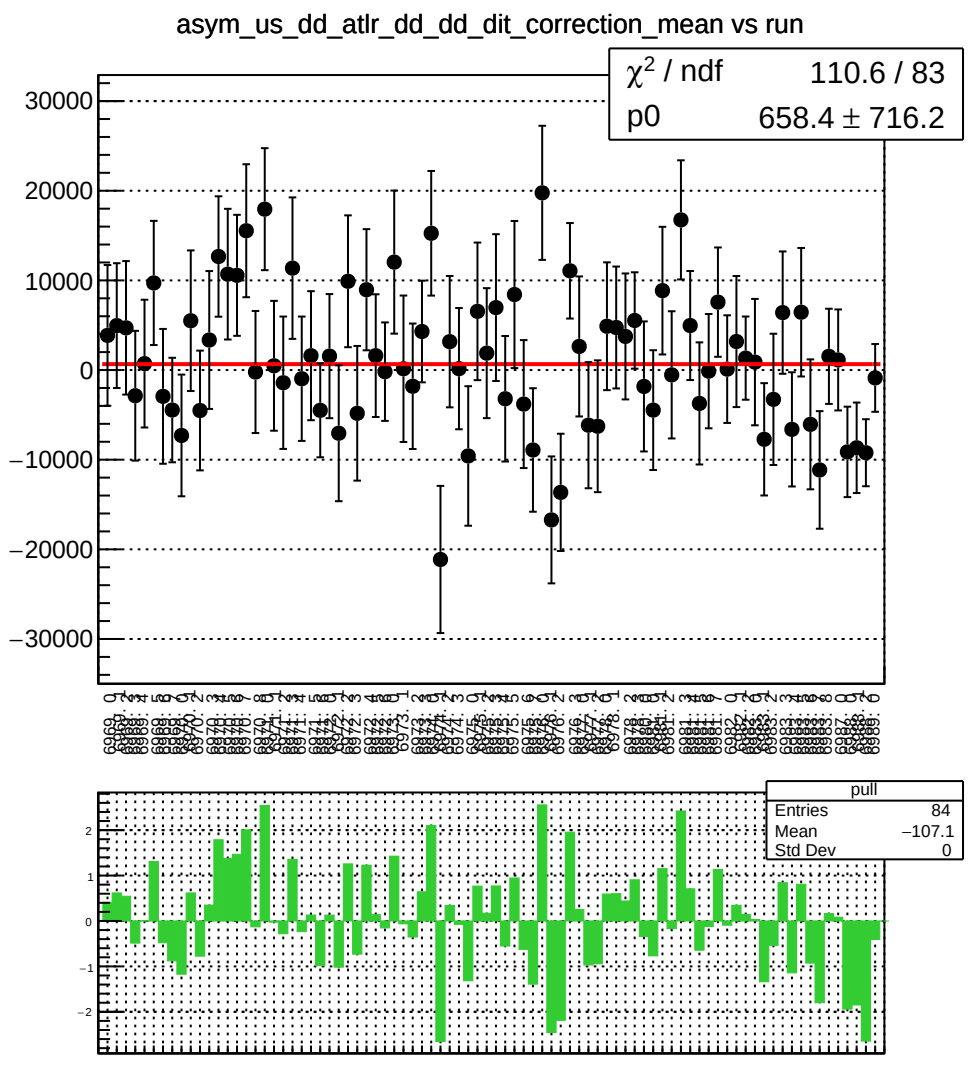

pull1D
Entries 84
Mean 0.03836
Std Dev 1.133
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

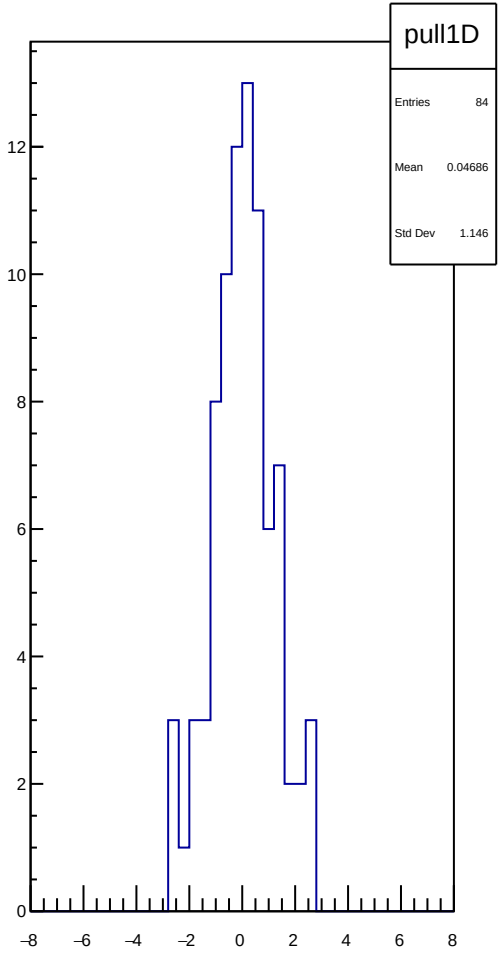

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.739e+04 / 83
p0 642.6 ± 0.4993
800
750
700
650
600
550
500
450

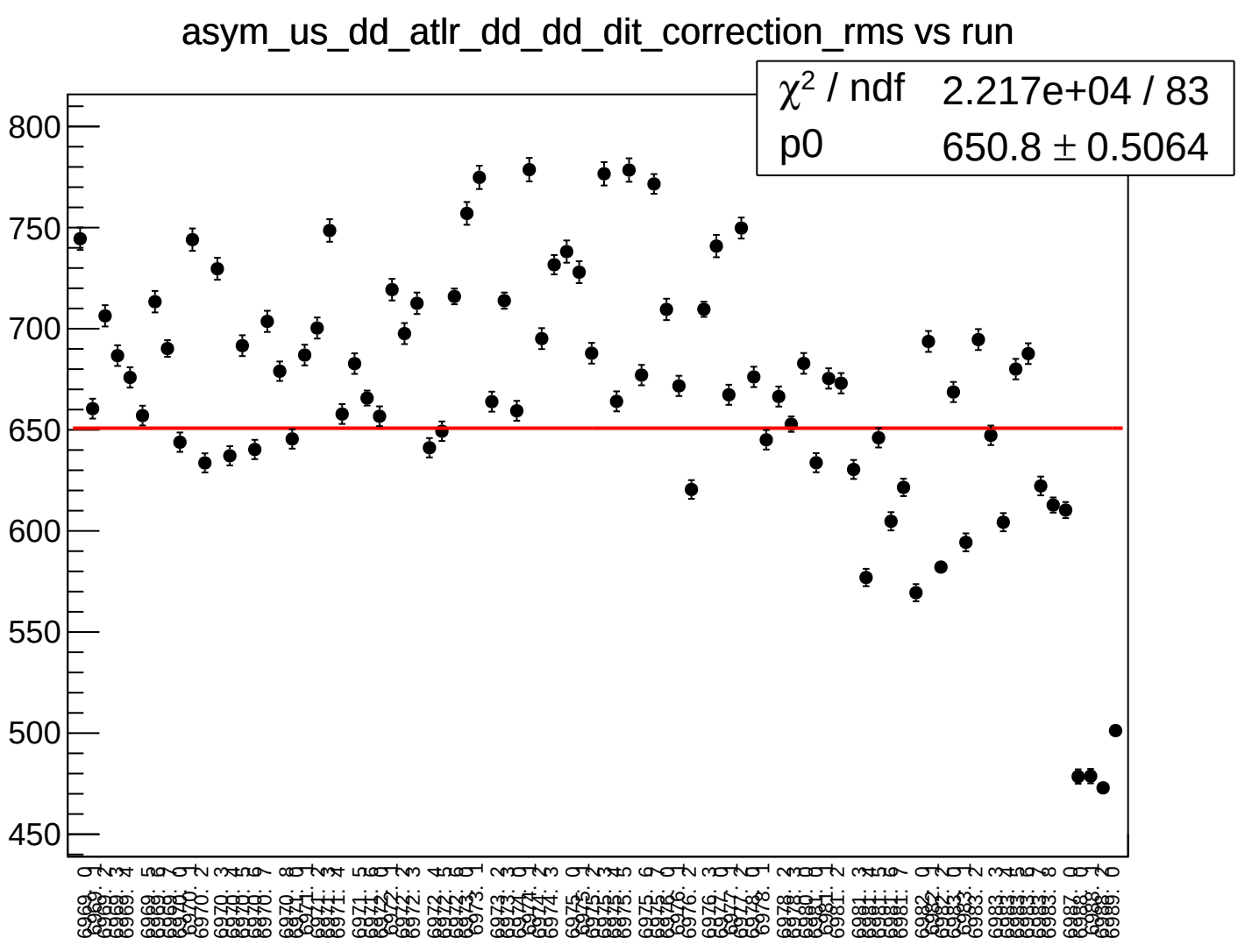

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 106.3 / 83
p0 1744 ± 1192
pull
Entries 84
Mean 3312
Std Dev 0

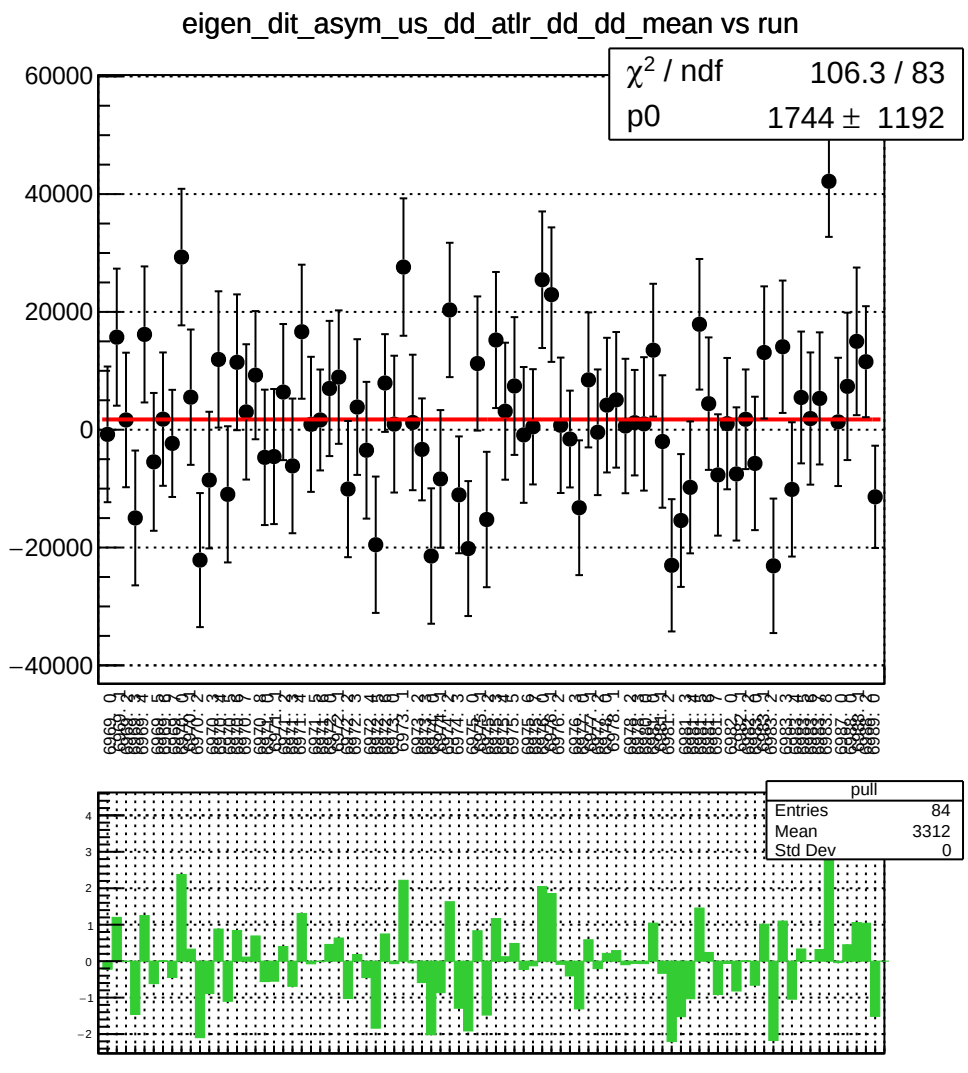

pull1D
Entries 84
Mean 0.0003025
Std Dev 1.125

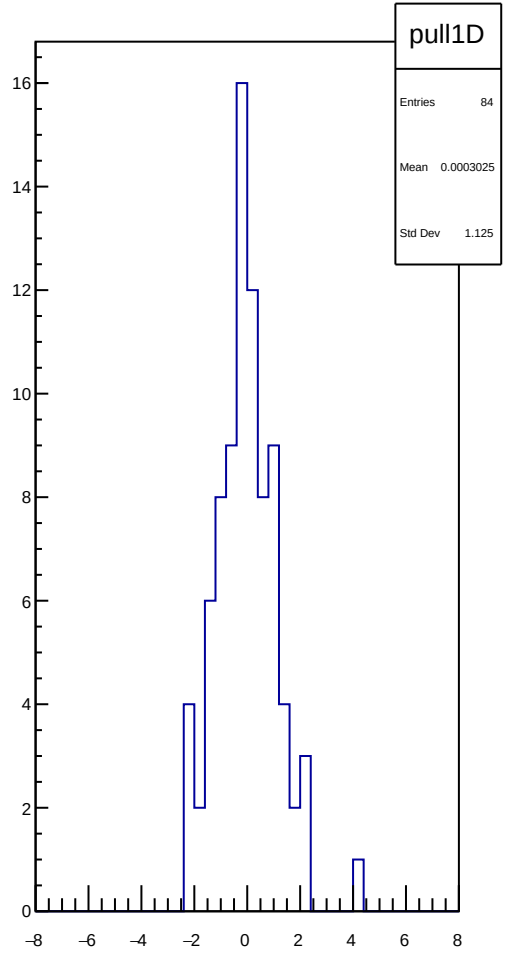

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1005 / 83
p0 1090 ± 0.8429
1200
1180
1160
1140
1120
1100
1080
1060
1040

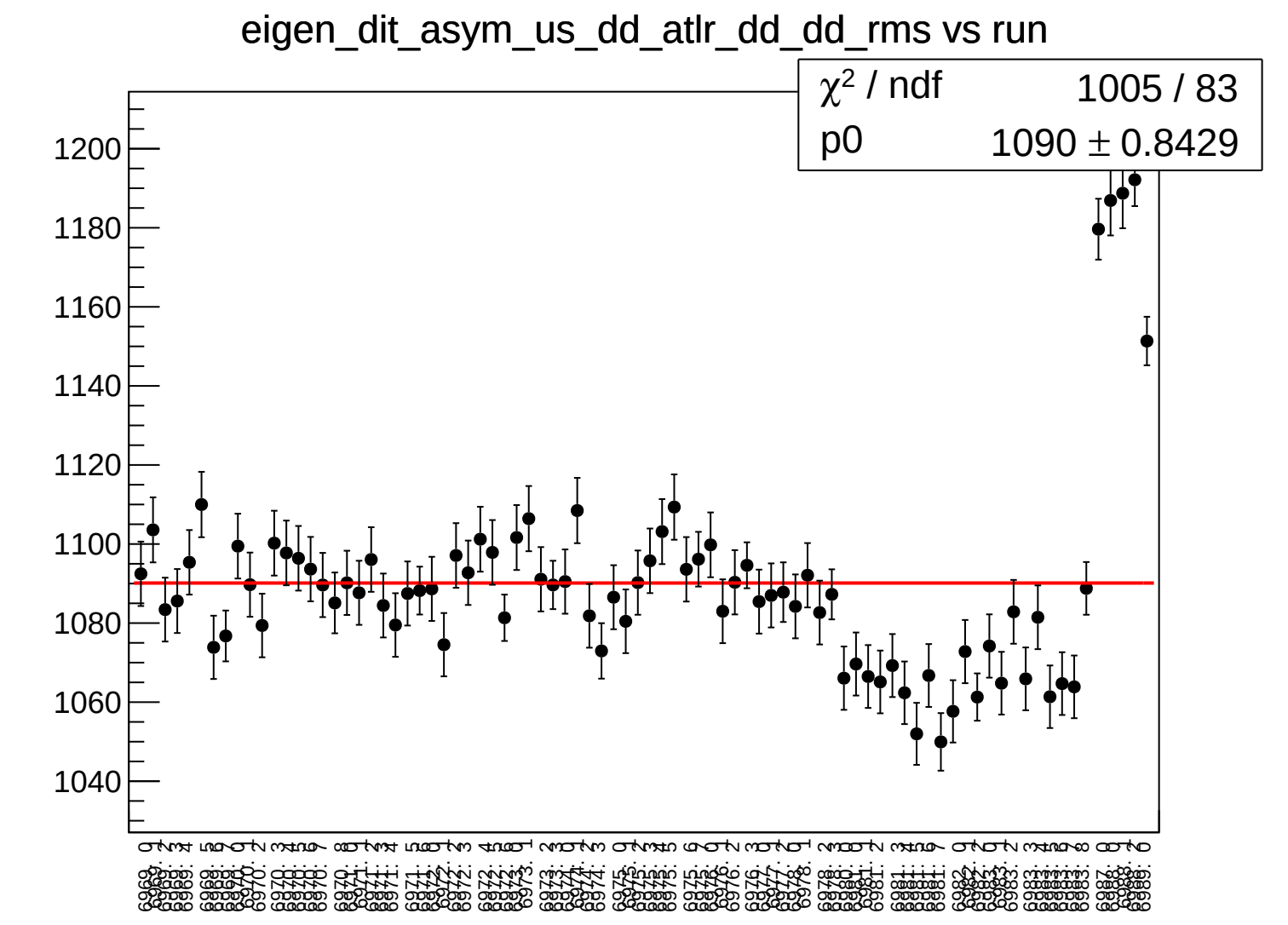

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 110.6 / 83
p0 658.4 ± 716.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −107.1
Std Dev 0
2
1
0
−1
−2

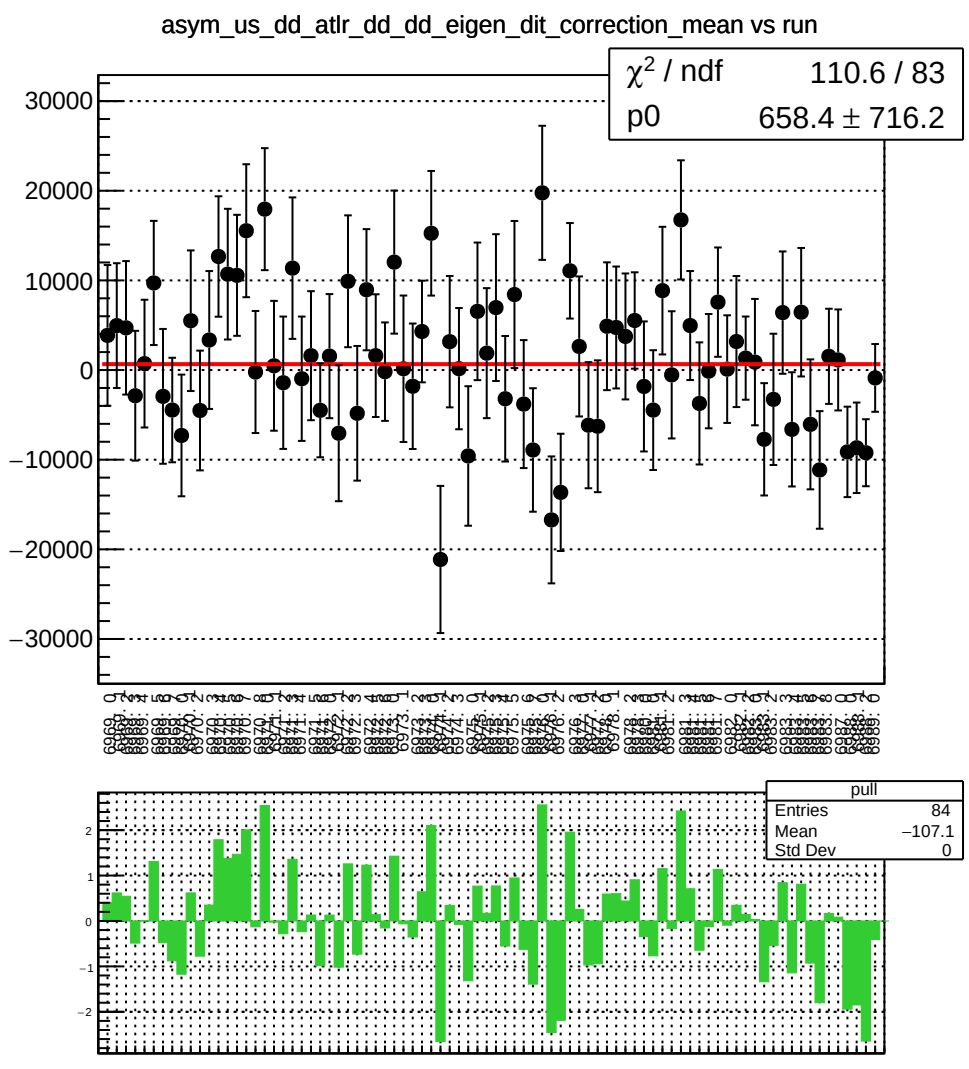

pull1D
Entries 84
Mean 0.04686
Std Dev 1.146
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

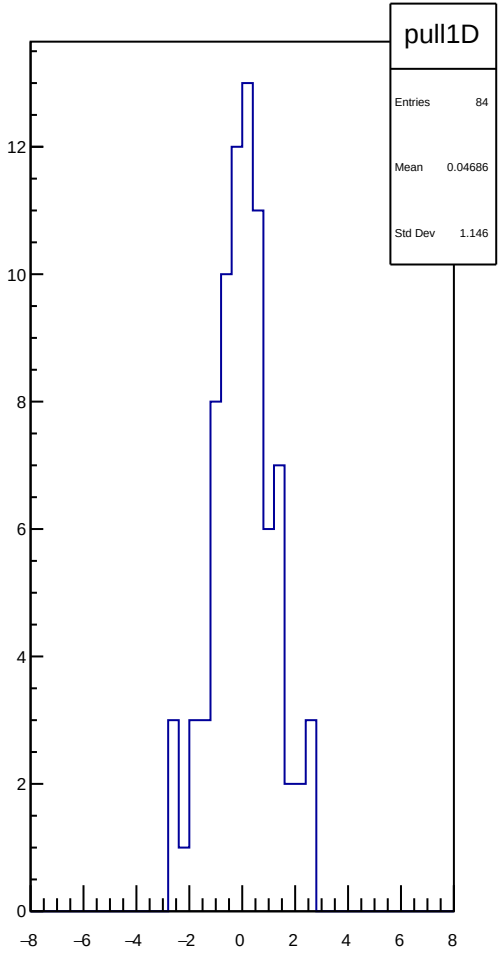

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.217e+04 / 83
p0 650.8 ± 0.5064
800
750
700
650
600
550
500
450

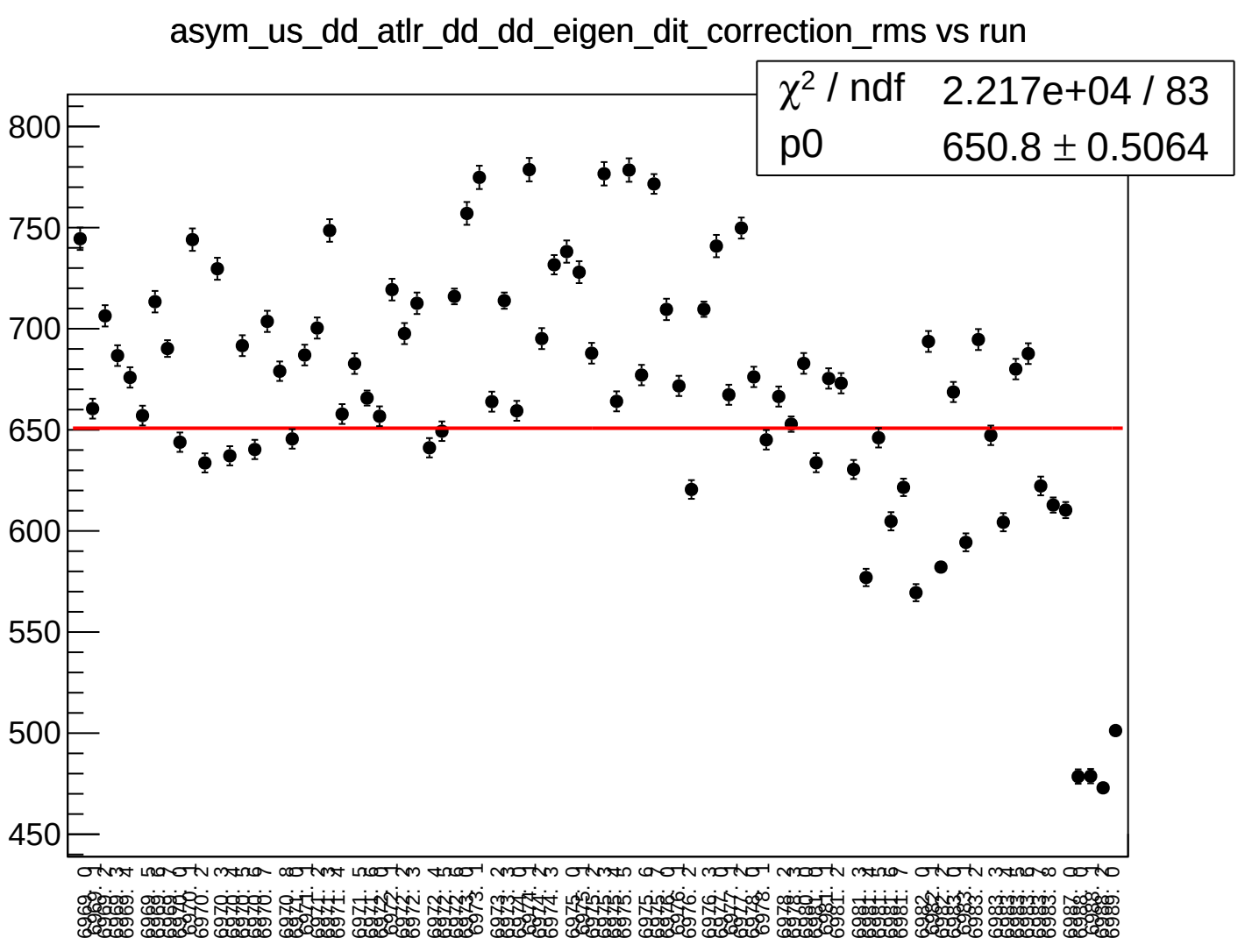

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 106.3 / 83
p0 1744 ± 1192
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 3312
Std Dev 0
4
3
2
1
0
−1
−2

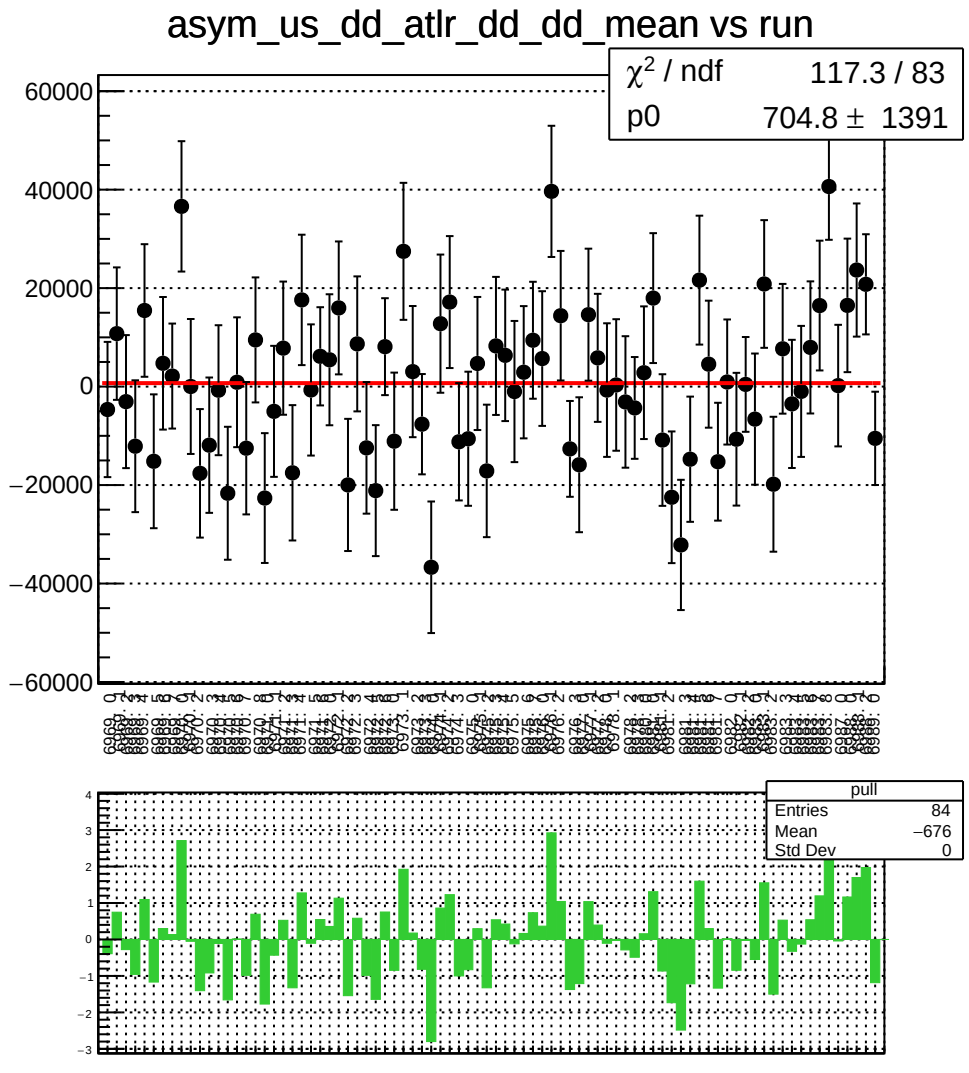

pull1D
Entries 84
Mean 0.0003025
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

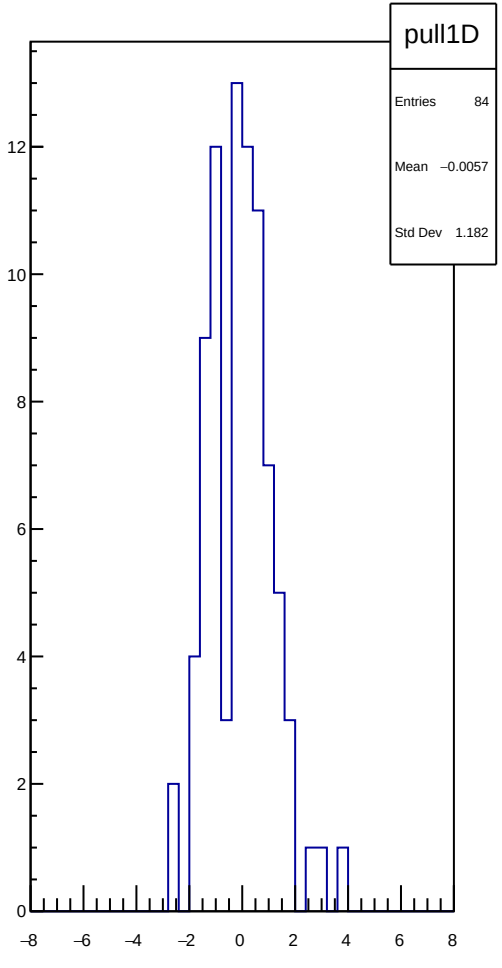

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1005 / 83
p0 1090 ± 0.8429
1200
1180
1160
1140
1120
1100
1080
1060
1040

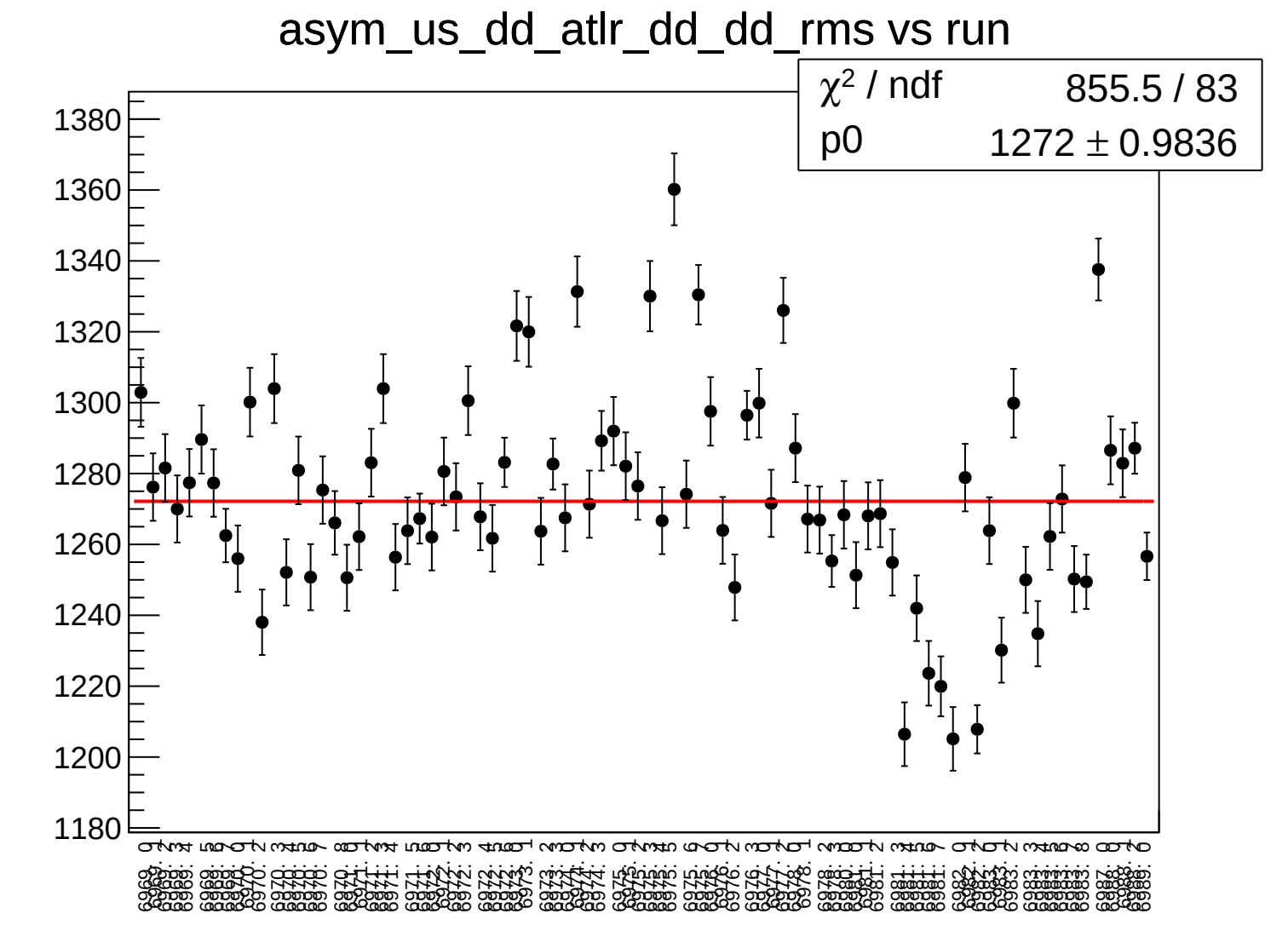

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 110.6 / 83
p0 658.4 ± 716.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −107.1
Std Dev 0
2
1
0
−1
−2

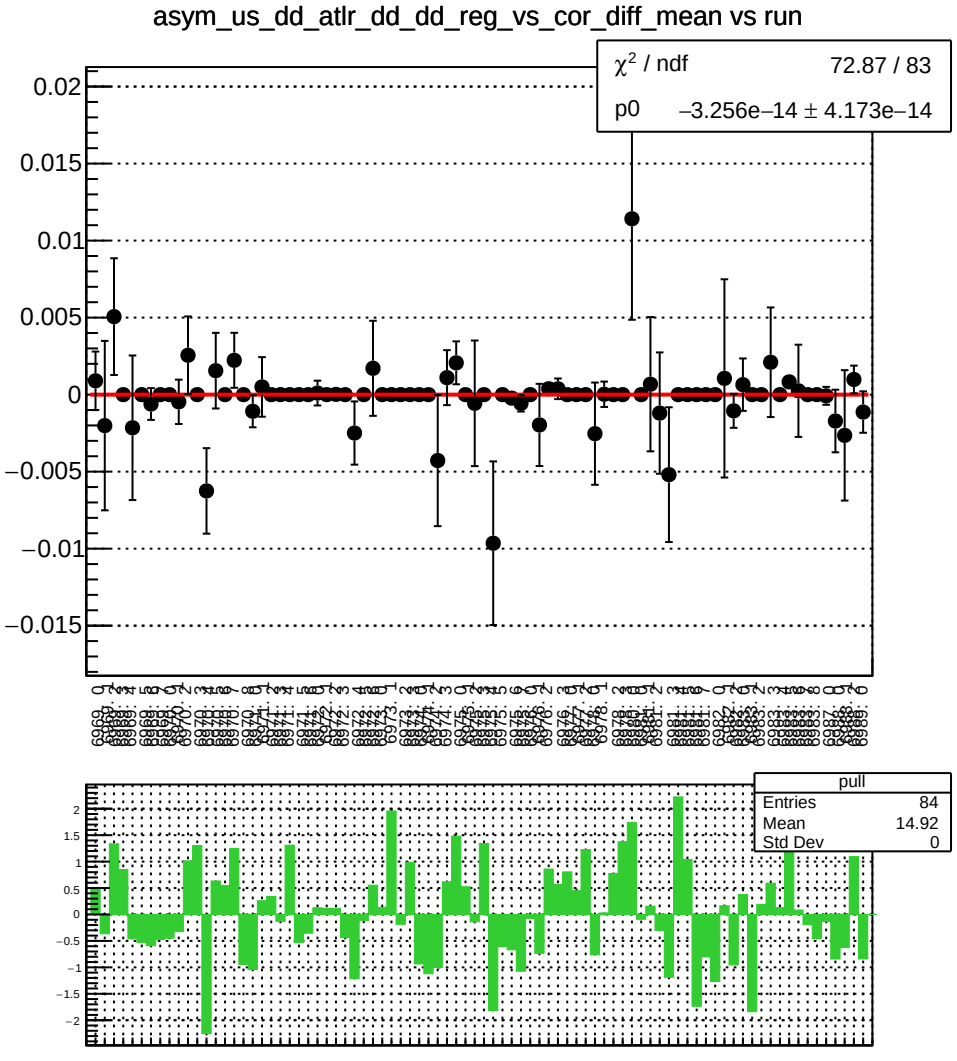

pull1D
Entries 84
Mean 0.04686
Std Dev 1.146
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

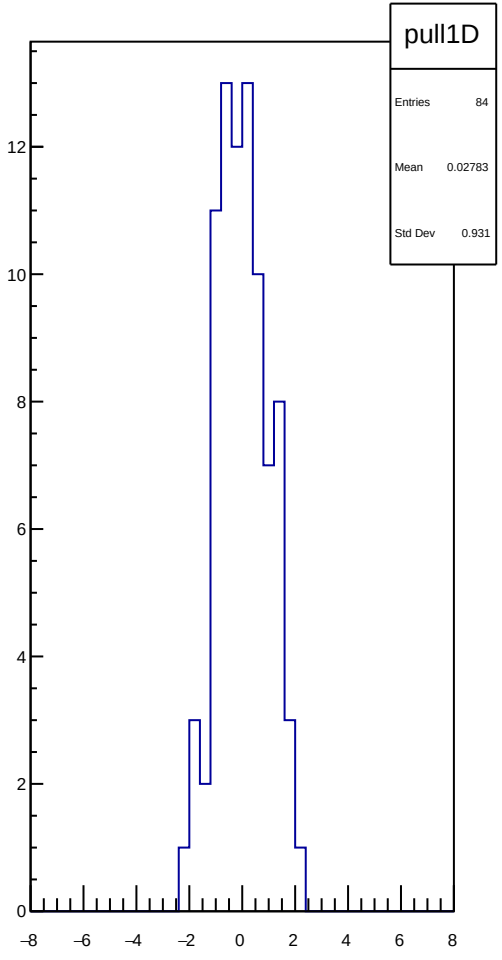

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.217e+04 / 83
p0 650.8 ± 0.5064
800
750
700
650
600
550
500
450

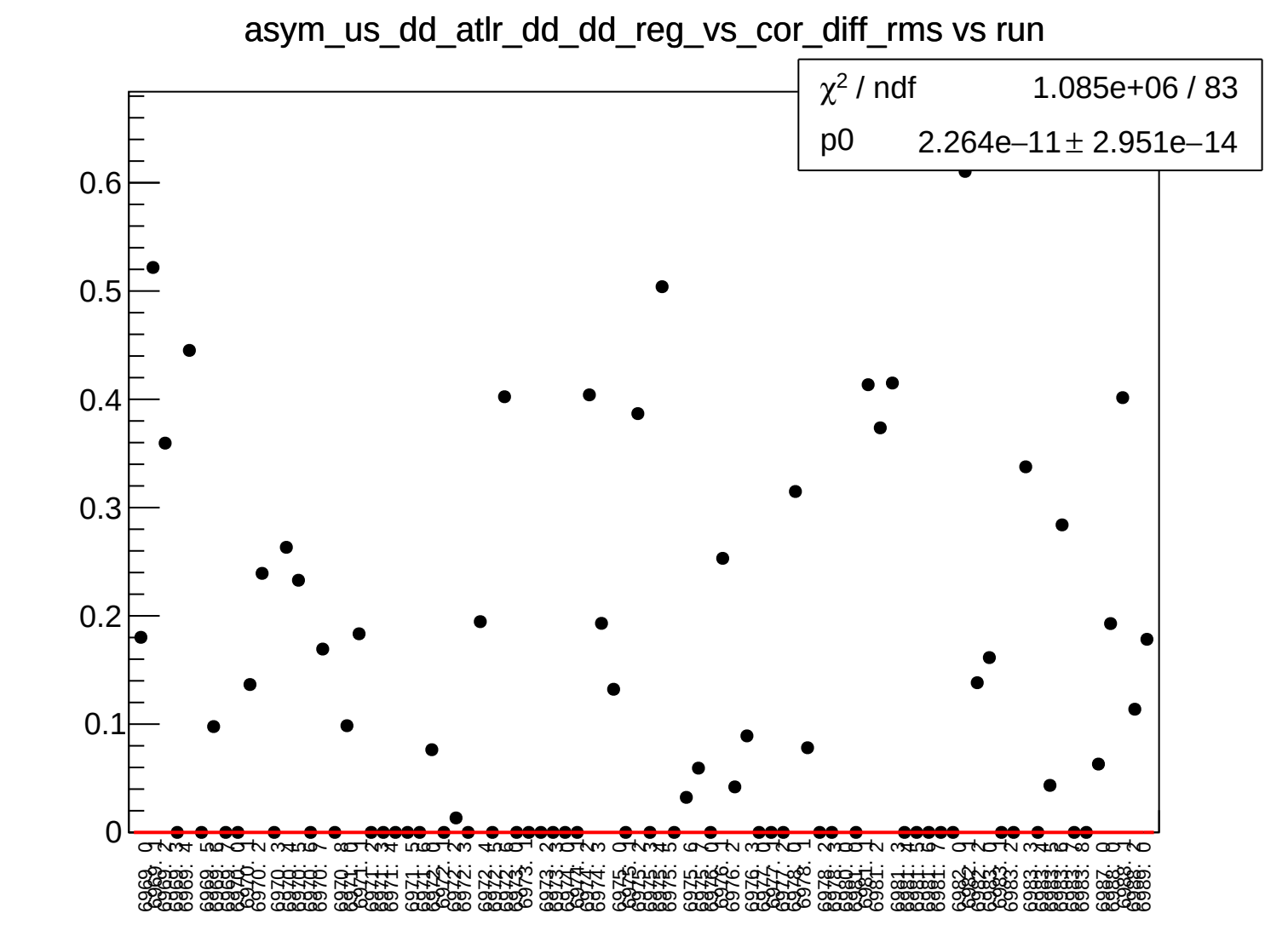

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 117.3 / 83
p0 704.8 ± 1391
pull
Entries 84
Mean −676
Std Dev 0

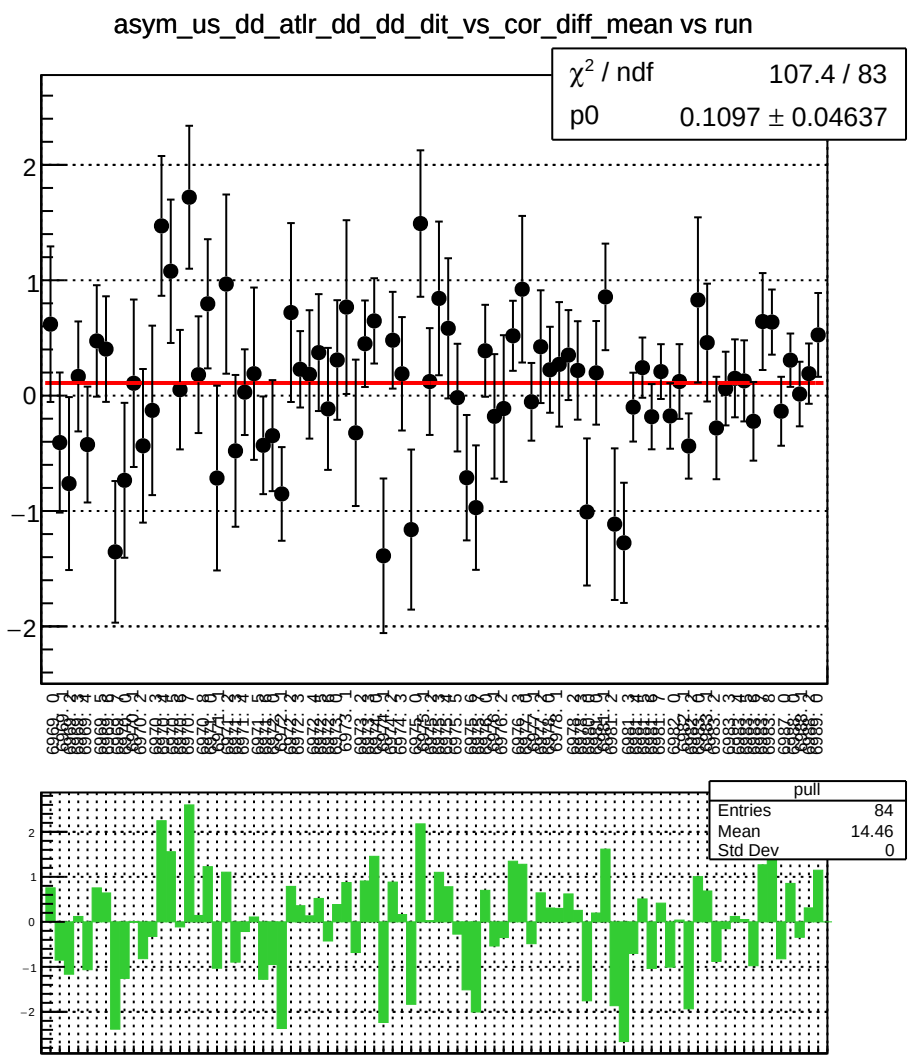

pull1D
Entries 84
Mean −0.0057
Std Dev 1.182

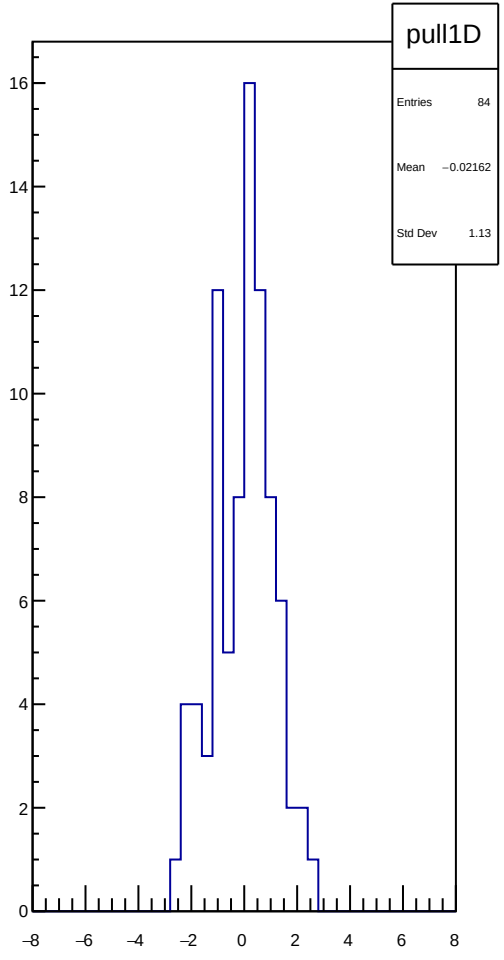

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 855.5 / 83
p0 1272 ± 0.9836
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

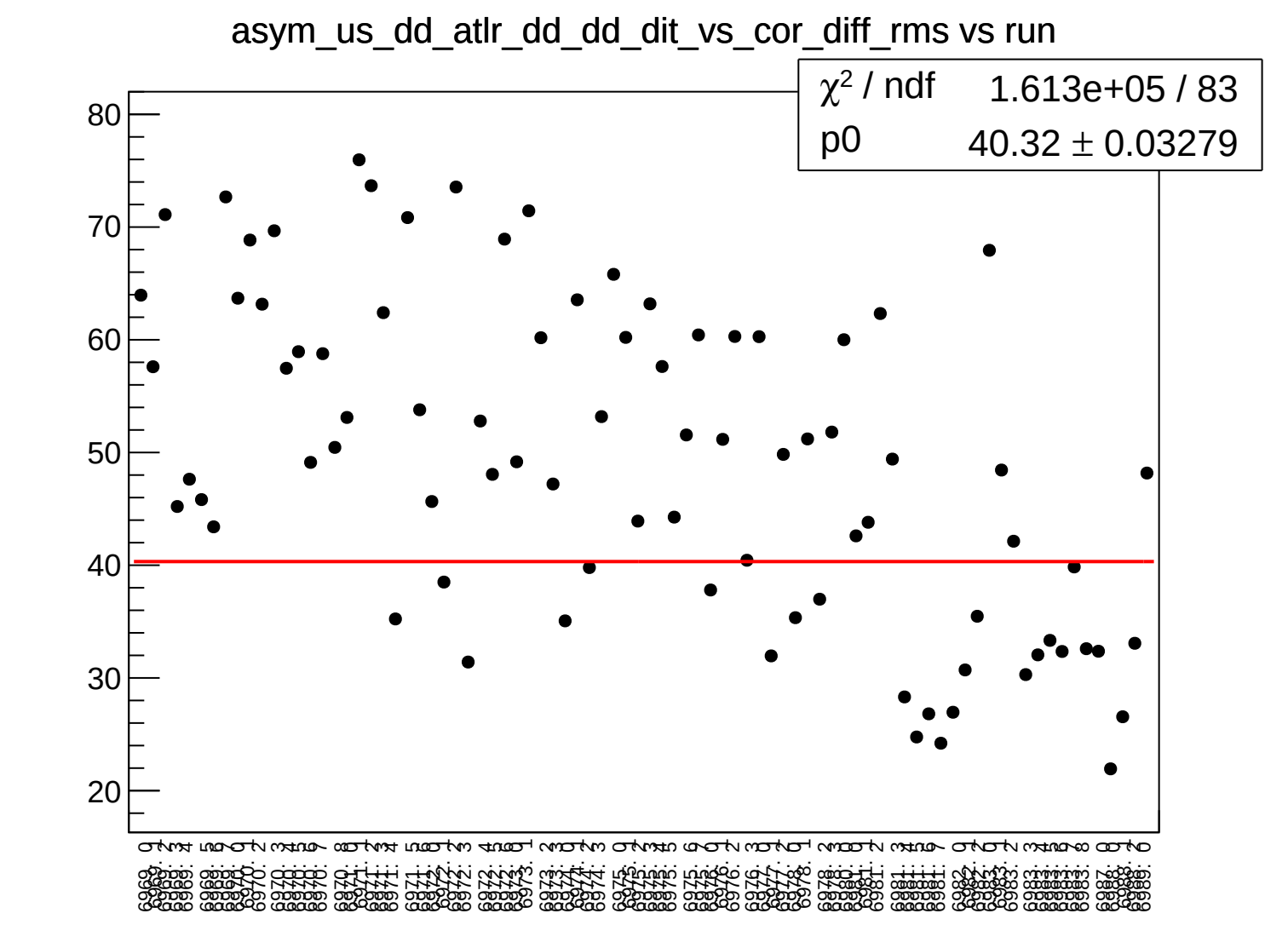

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.87 / 83
p0 −3.256e−14 ± 4.173e−14
pull
Entries 84
Mean 14.92
Std Dev 0


pull1D
Entries 84
Mean 0.02783
Std Dev 0.931

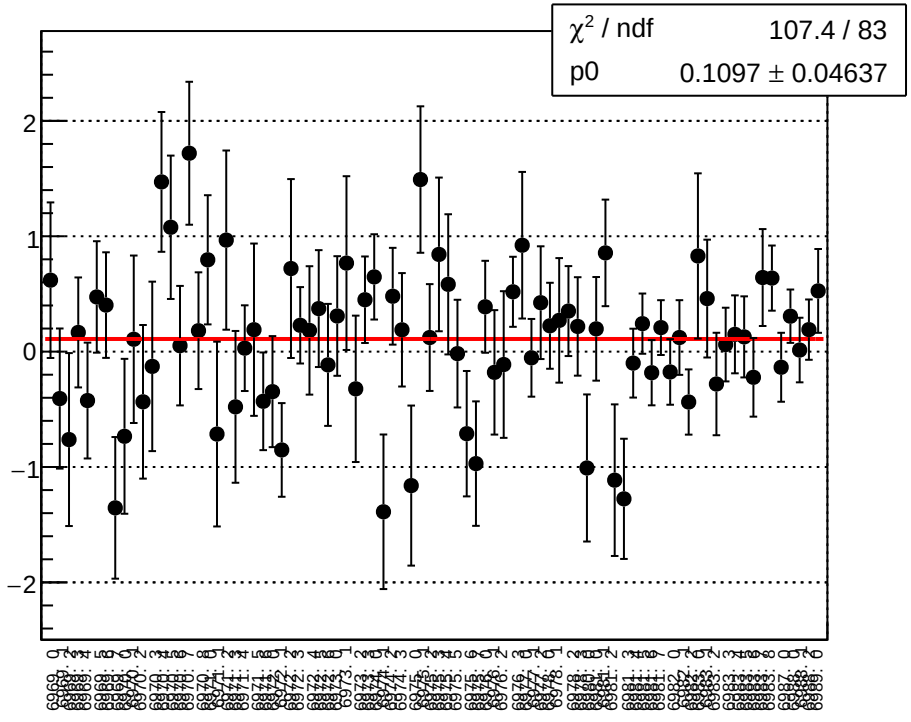

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.085e+06 / 83
p0 2.264e−11 ± 2.951e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

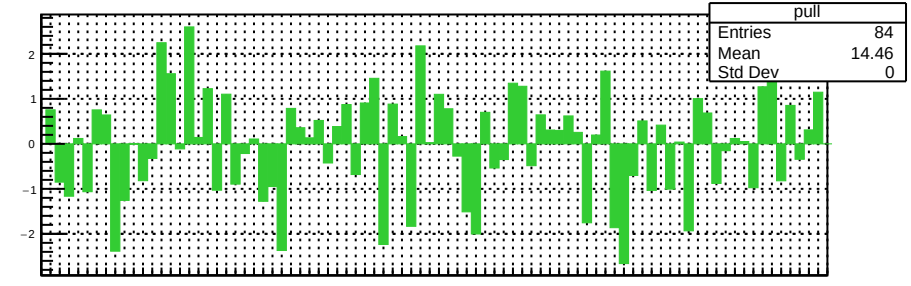

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 83
p0 0.1097 ± 0.04637
pull
Entries 84
Mean 14.46
Std Dev 0

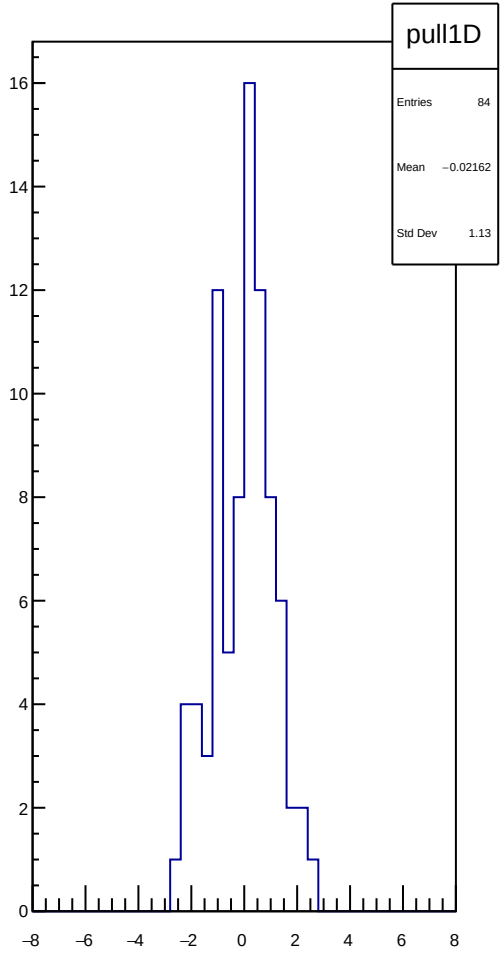

pull1D
Entries 84
Mean −0.02162
Std Dev 1.13

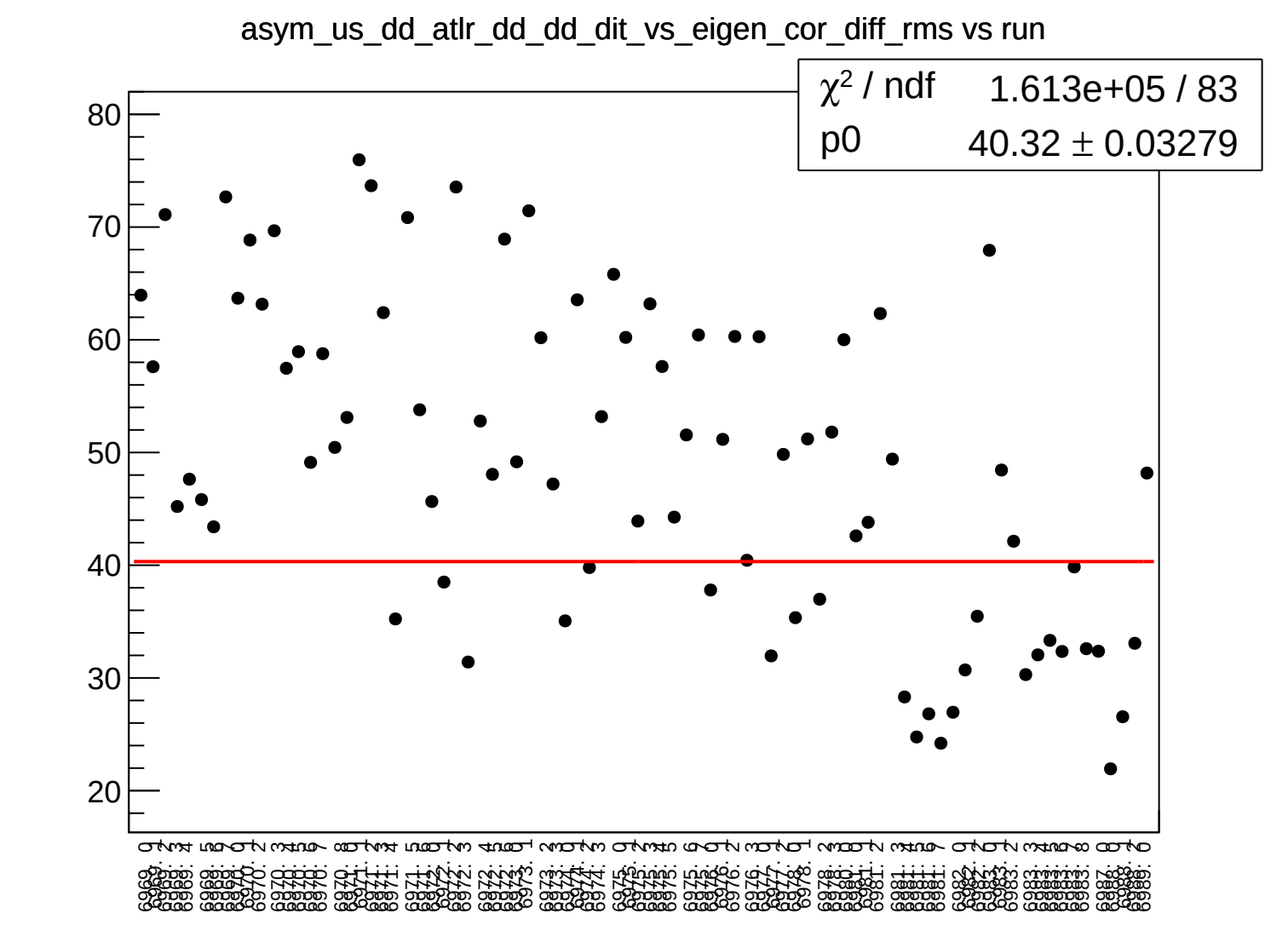

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.613e+05 / 83
p0 40.32 ± 0.03279
80
70
60
50
40
30
20

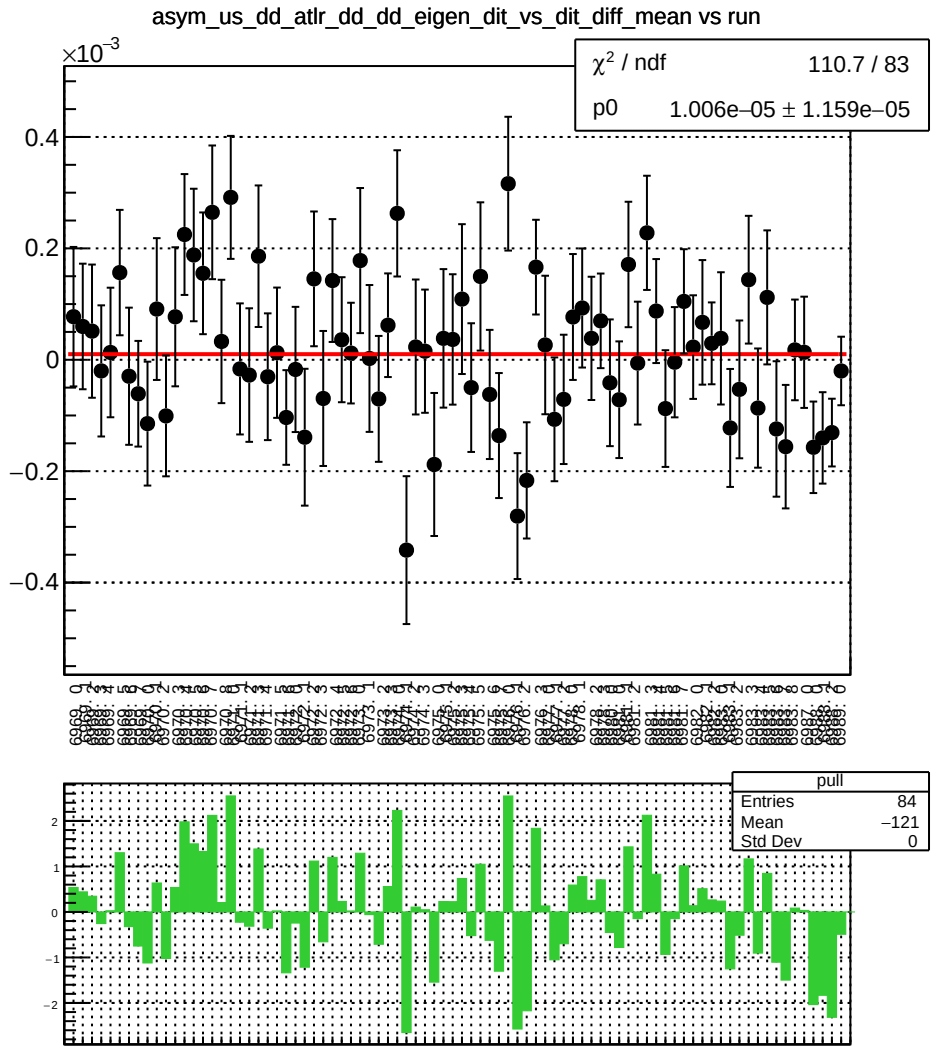
asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run

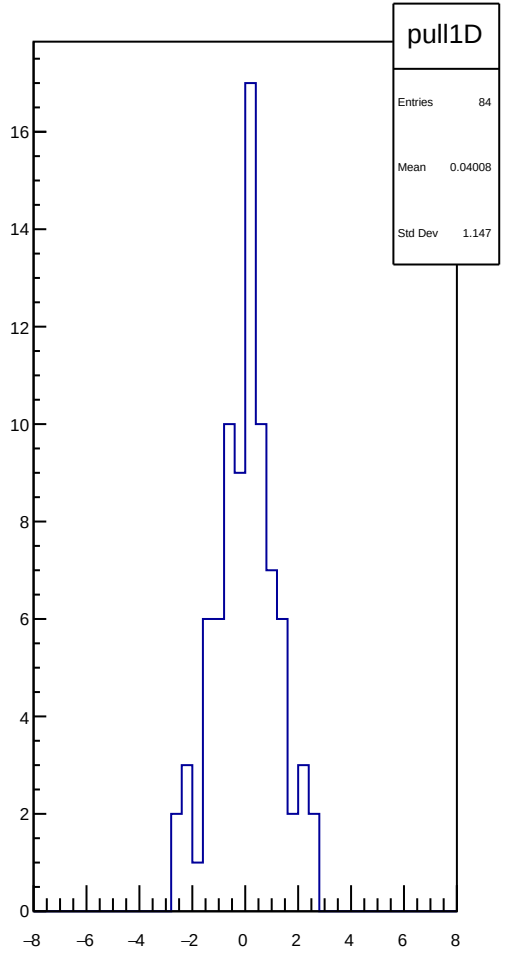


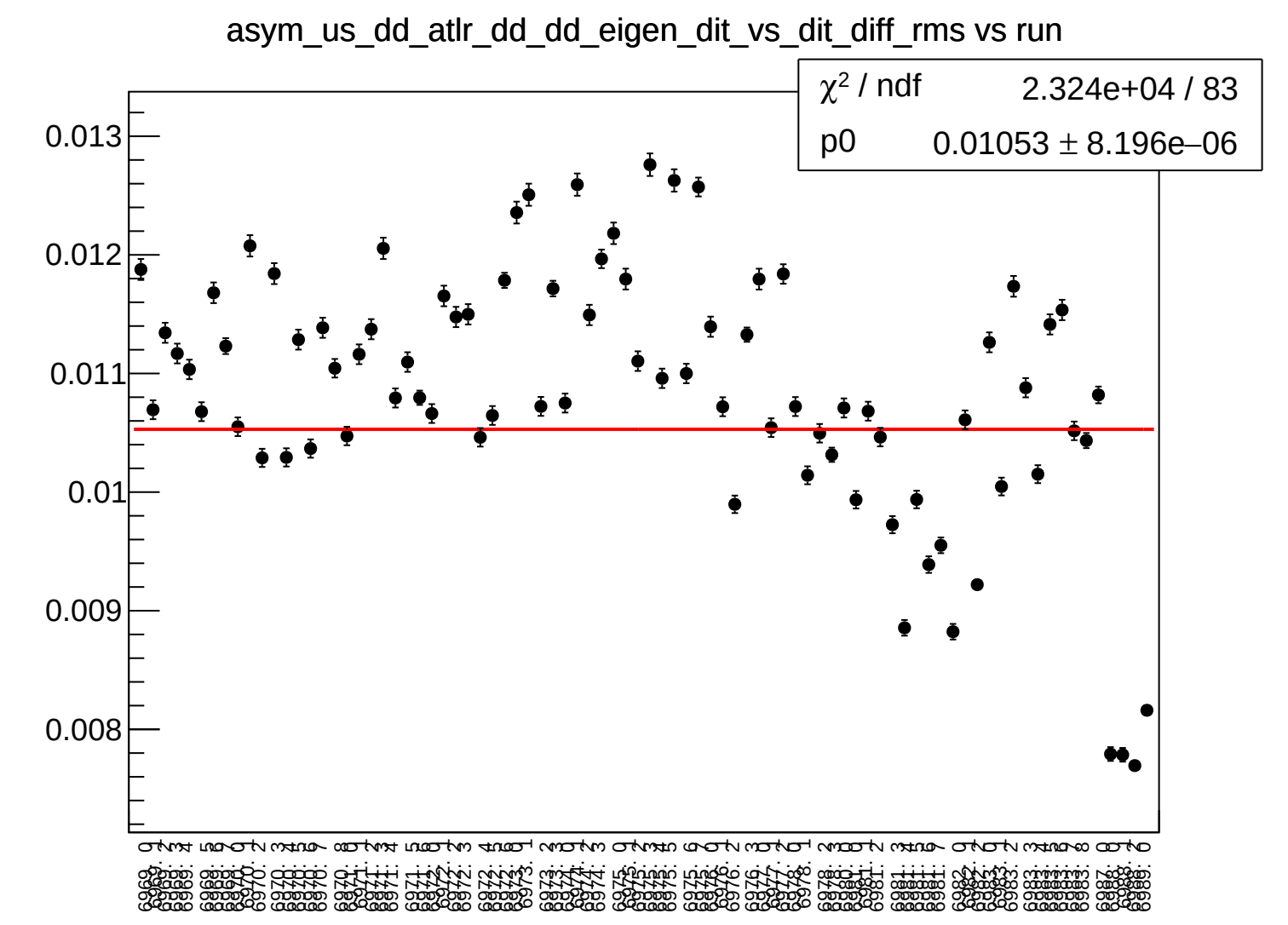


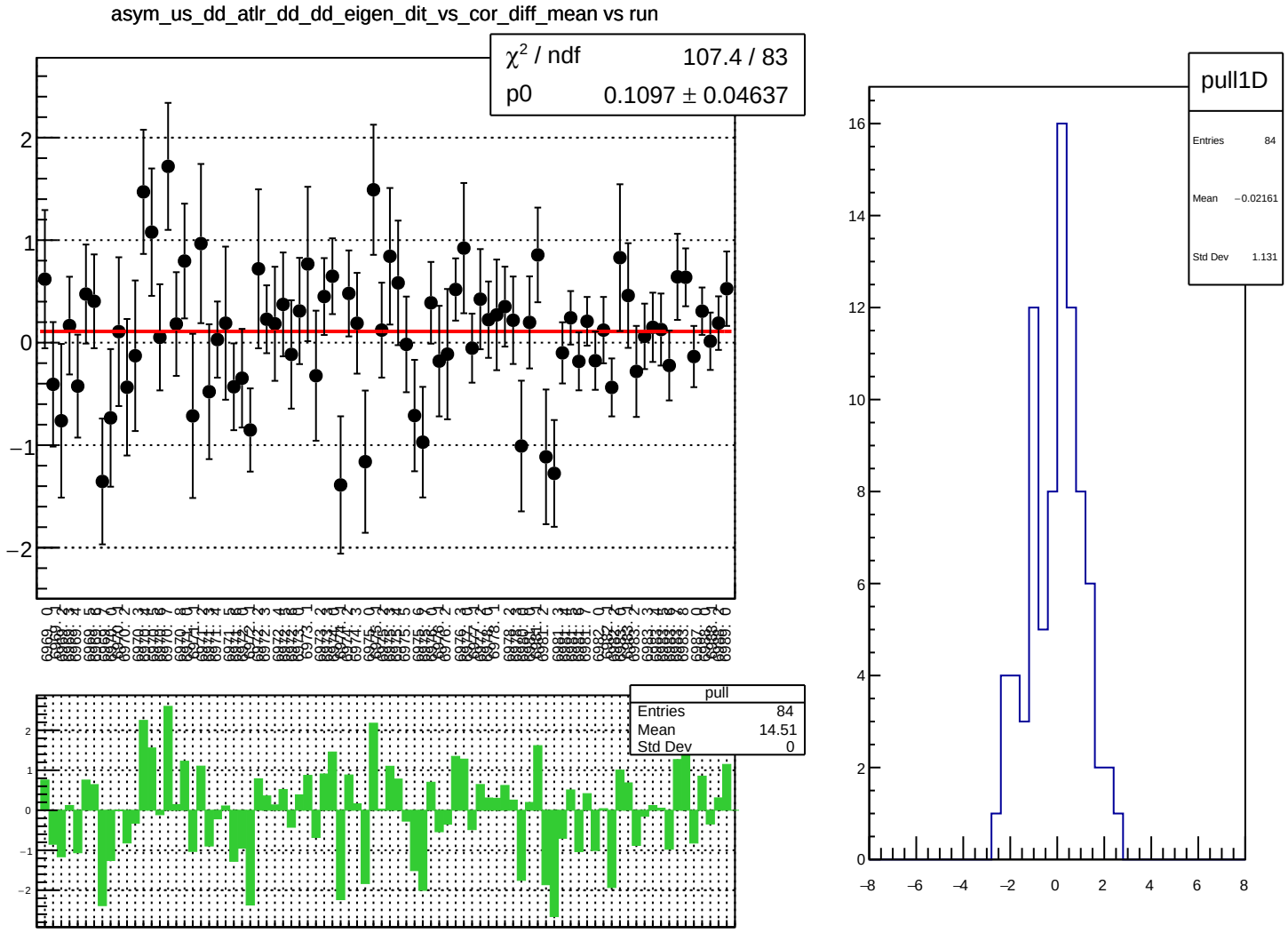


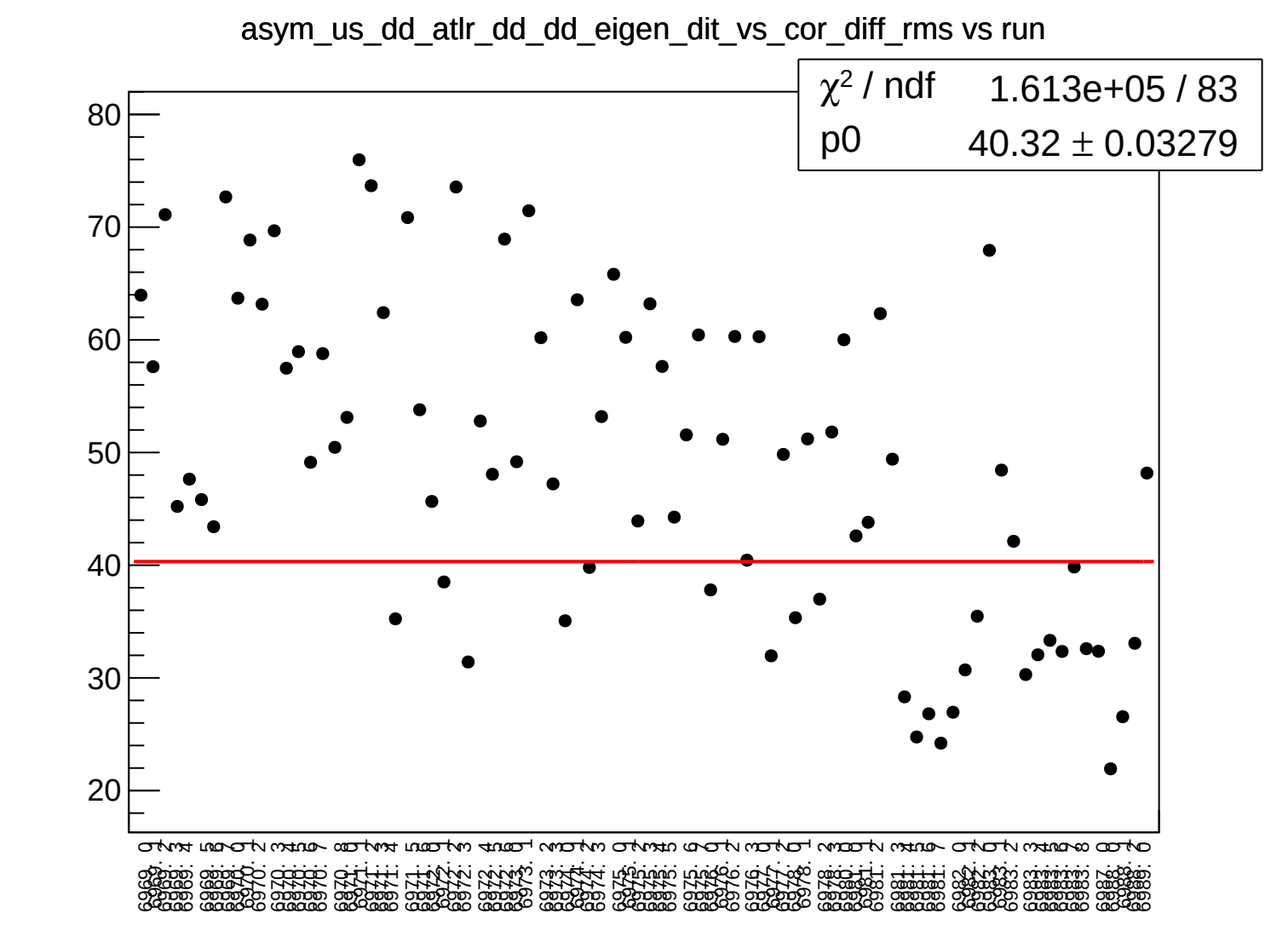

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.613e+05 / 83
p0 40.32 ± 0.03279
80
70
60
50
40
30
20

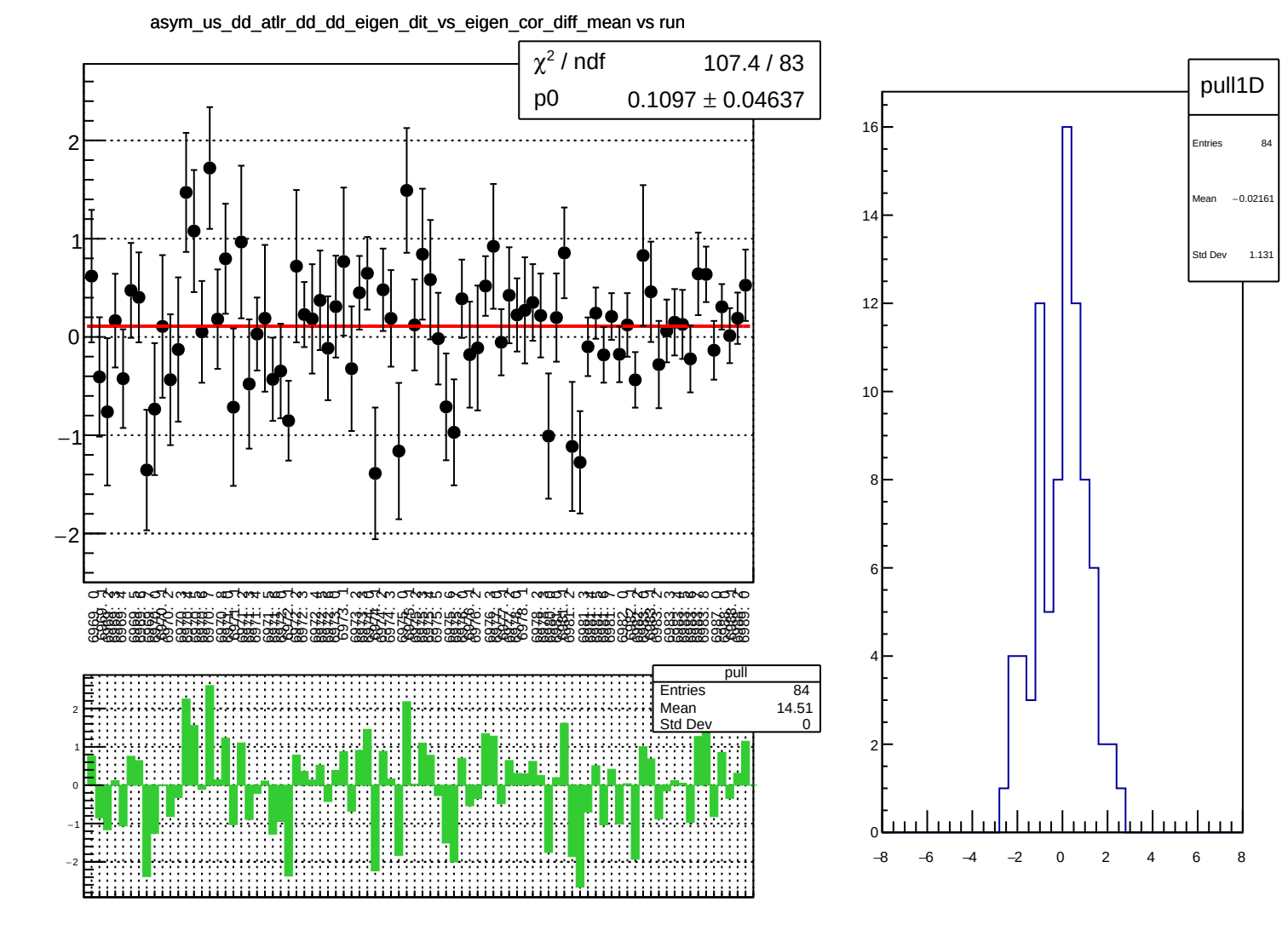

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.7 / 83
p0 1.006e−05 ± 1.159e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 84
Mean −121
Std Dev 0
2
1
0
−1
−2

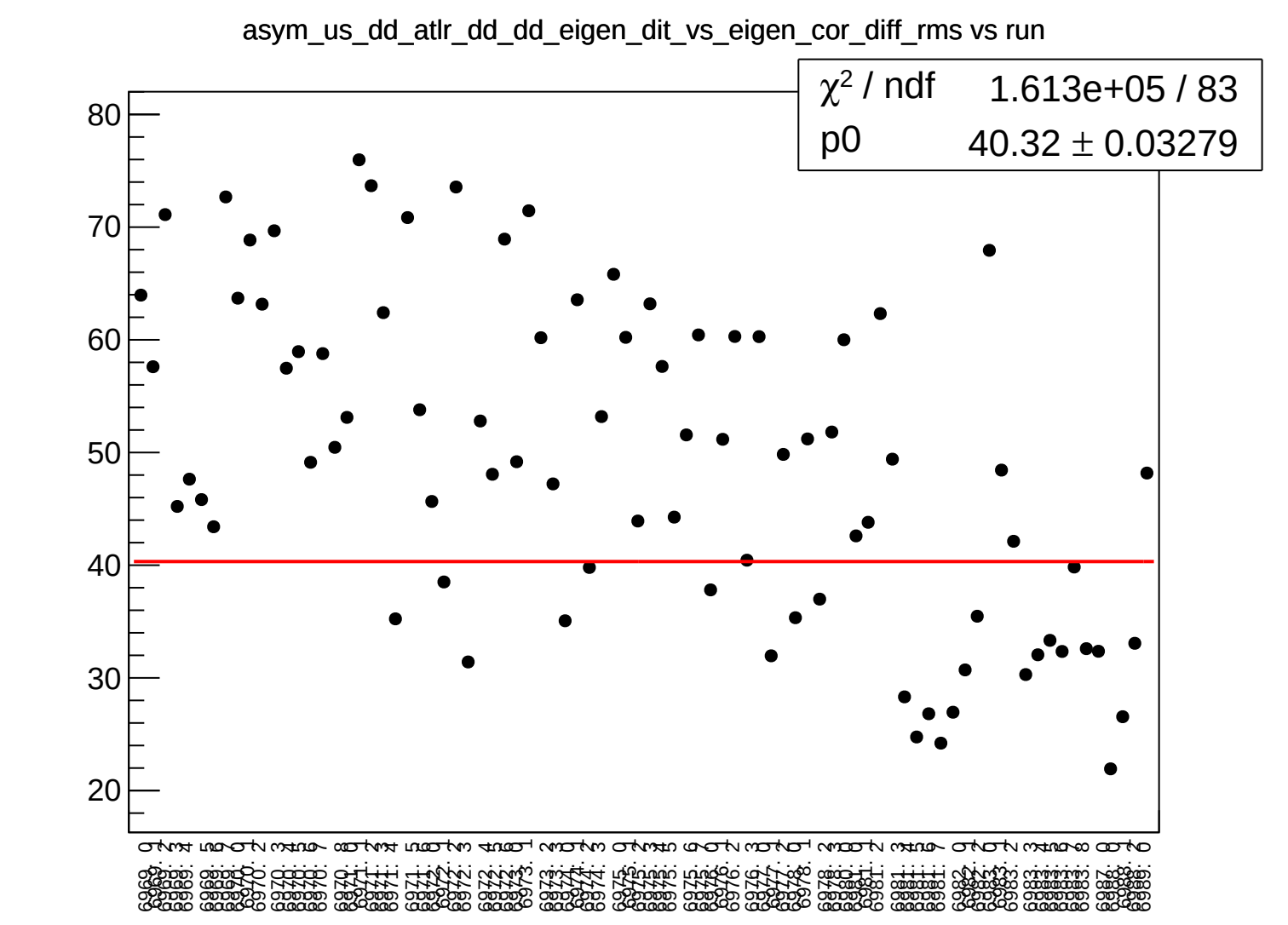

pull1D
Entries 84
Mean 0.04008
Std Dev 1.147
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

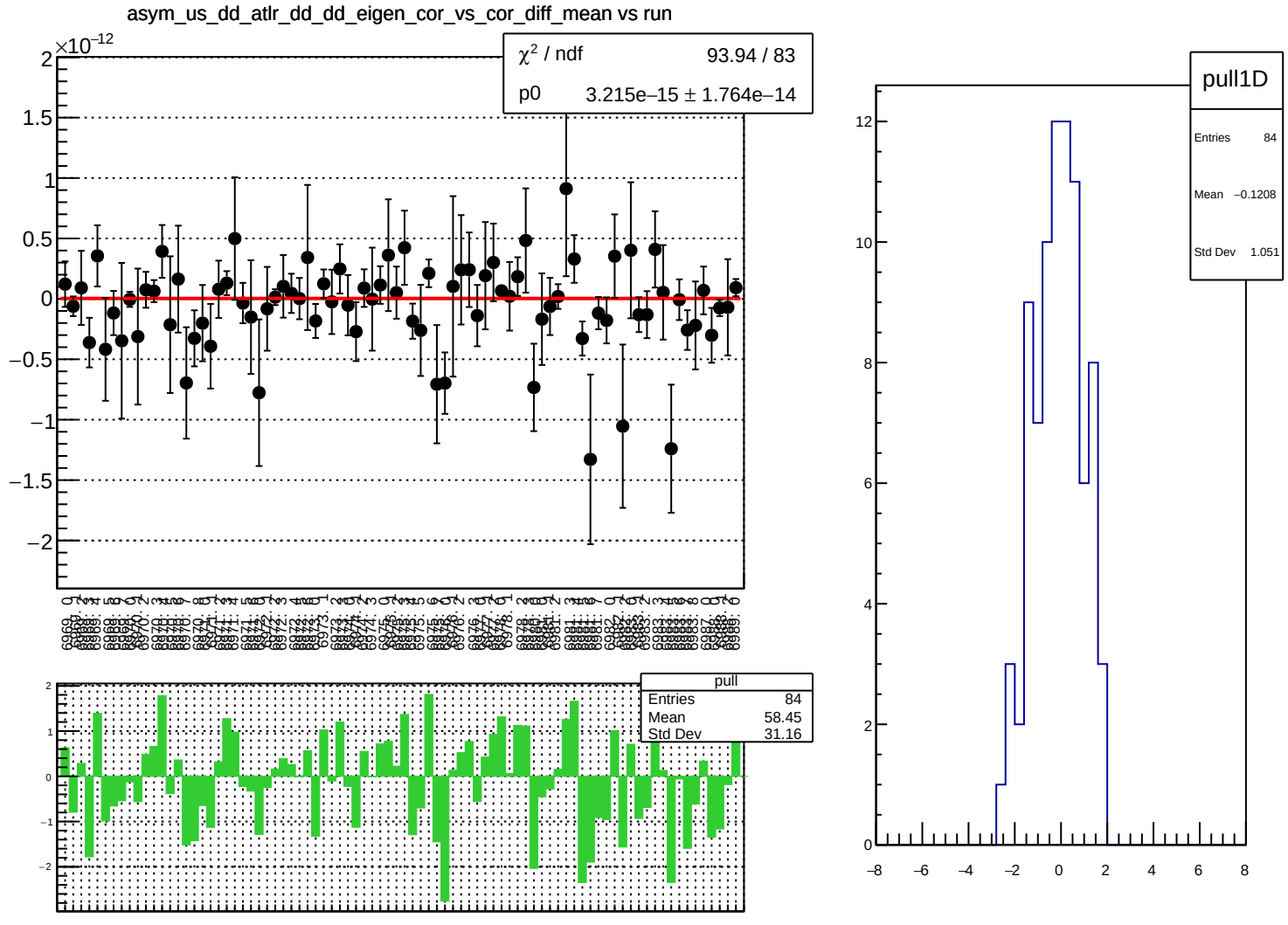

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.324e+04 / 83
p0 0.01053 ± 8.196e–06
0.013
0.012
0.011
0.01
0.009
0.008

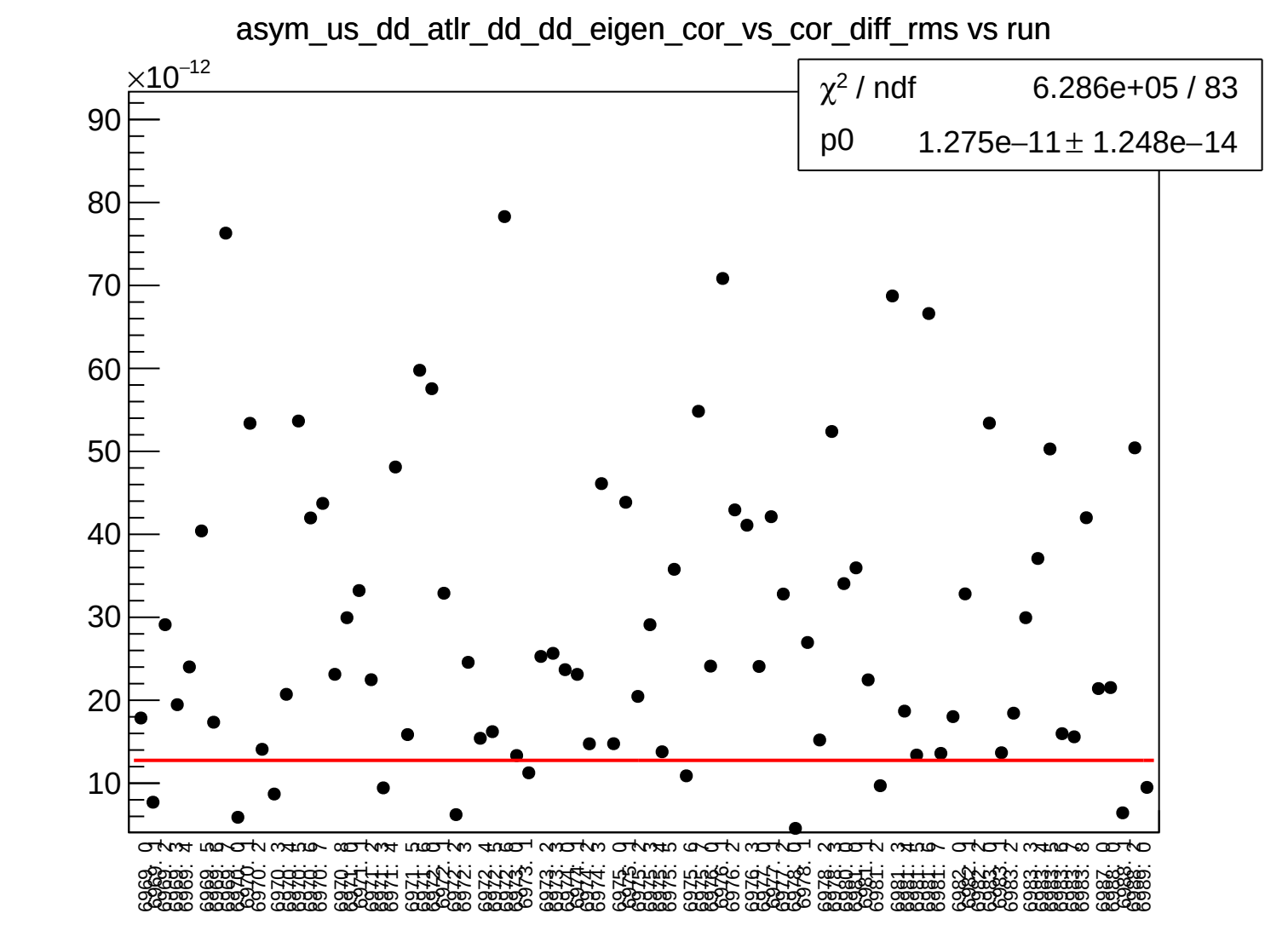

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 83
p0 0.1097 ± 0.04637
pull
Entries 84
Mean 14.51
Std Dev 0
pull1D
Entries 84
Mean −0.02161
Std Dev 1.131

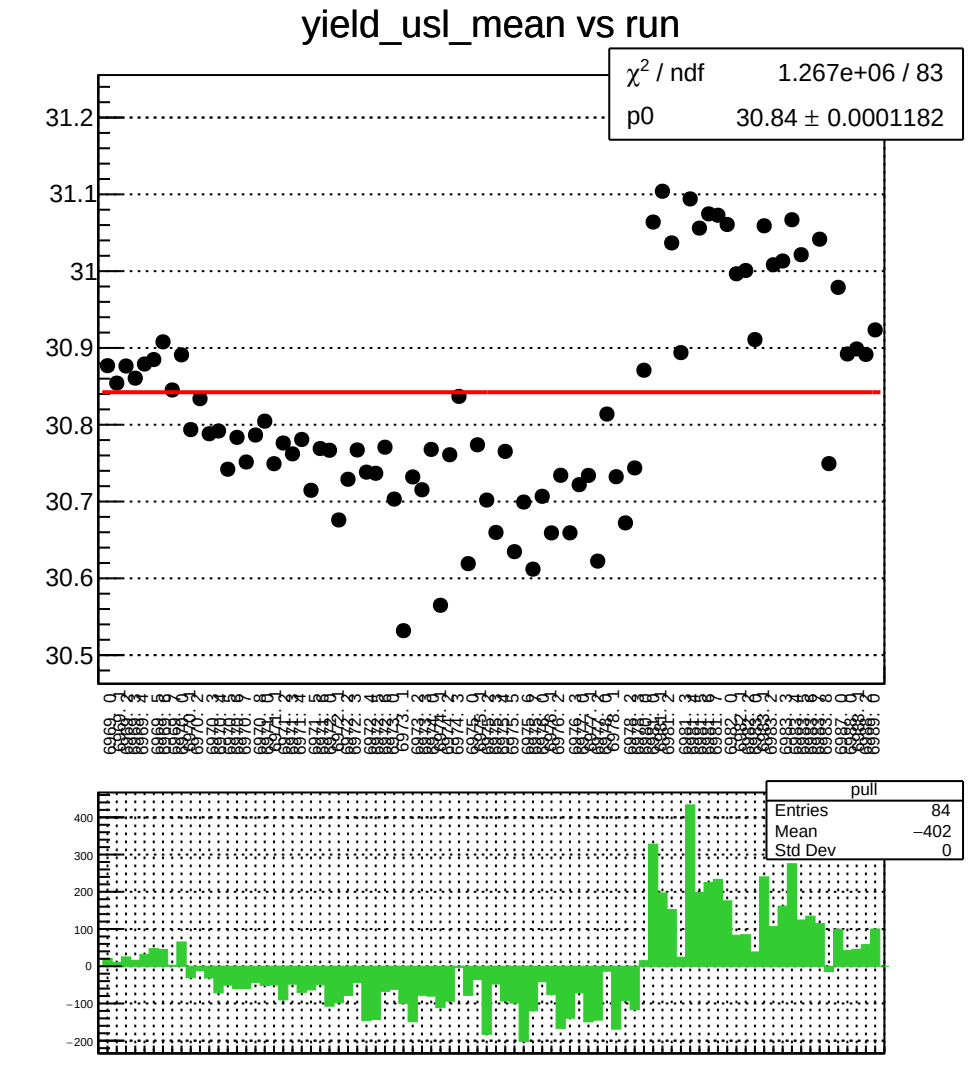

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.613e+05 / 83
p0 40.32 ± 0.03279
80
70
60
50
40
30
20

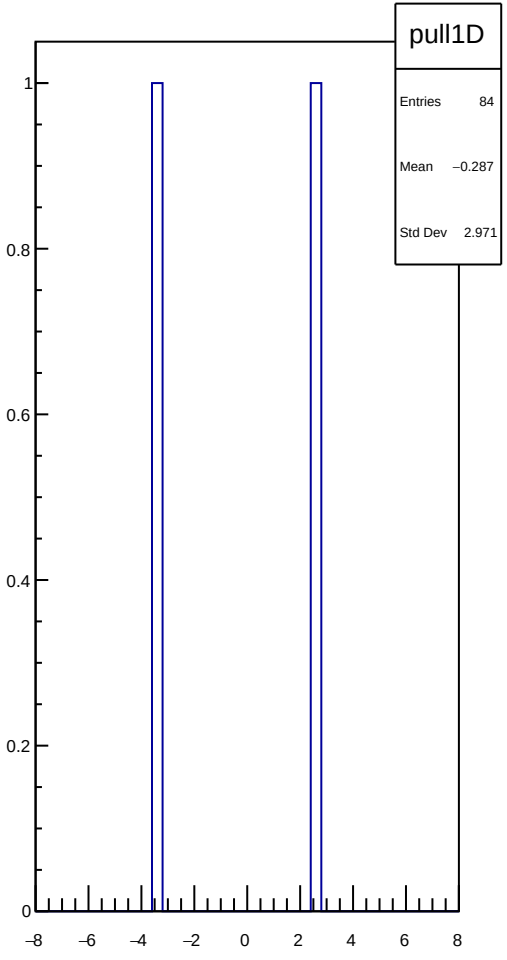

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 83
p0 0.1097 ± 0.04637
pull
Entries 84
Mean 14.51
Std Dev 0
pull1D
Entries 84
Mean −0.02161
Std Dev 1.131

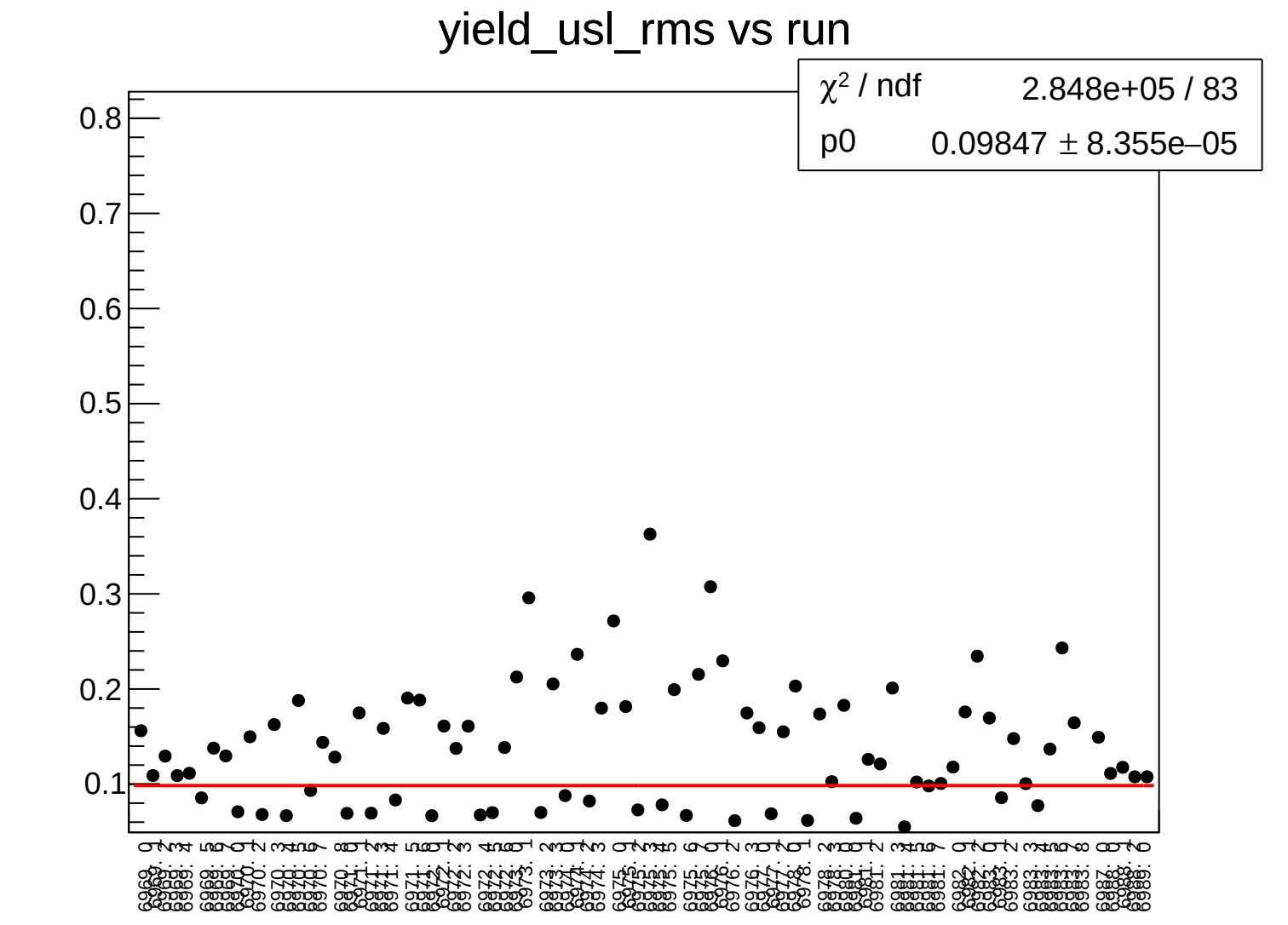

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.613e+05 / 83
p0 40.32 ± 0.03279
80
70
60
50
40
30
20

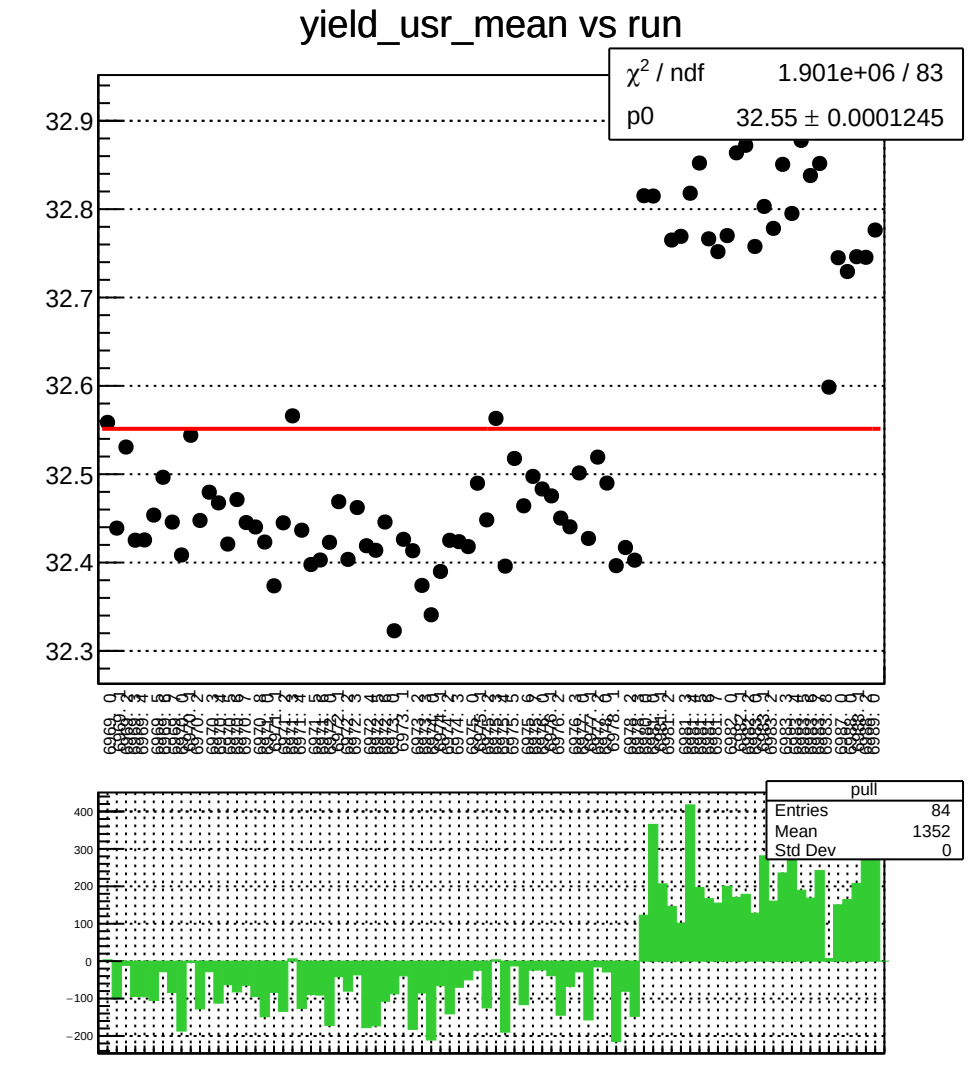

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.94 / 83
p0 3.215e−15 ± 1.764e−14
pull
Entries 84
Mean 58.45
Std Dev 31.16
pull1D
Entries 84
Mean −0.1208
Std Dev 1.051

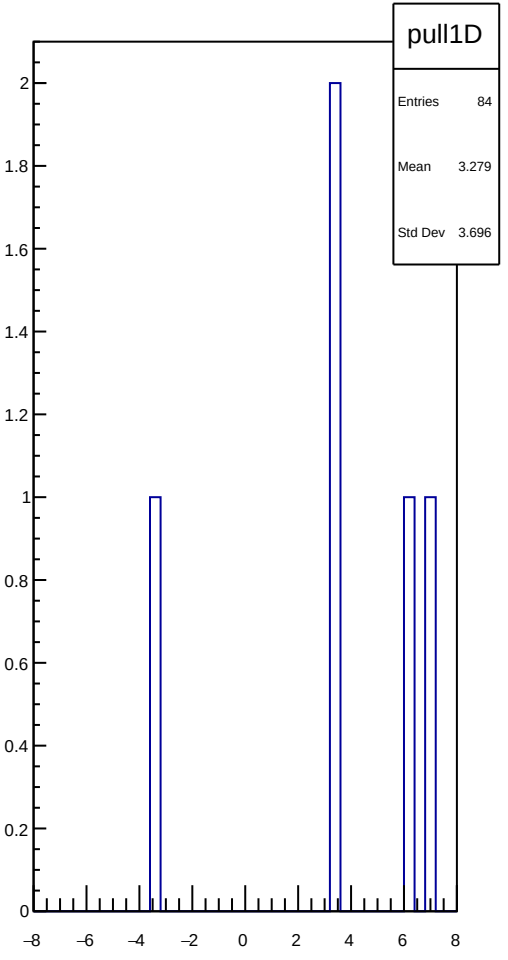

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.286e+05 / 83
p0 1.275e−11 ± 1.248e−14
90
80
70
60
50
40
30
20
10

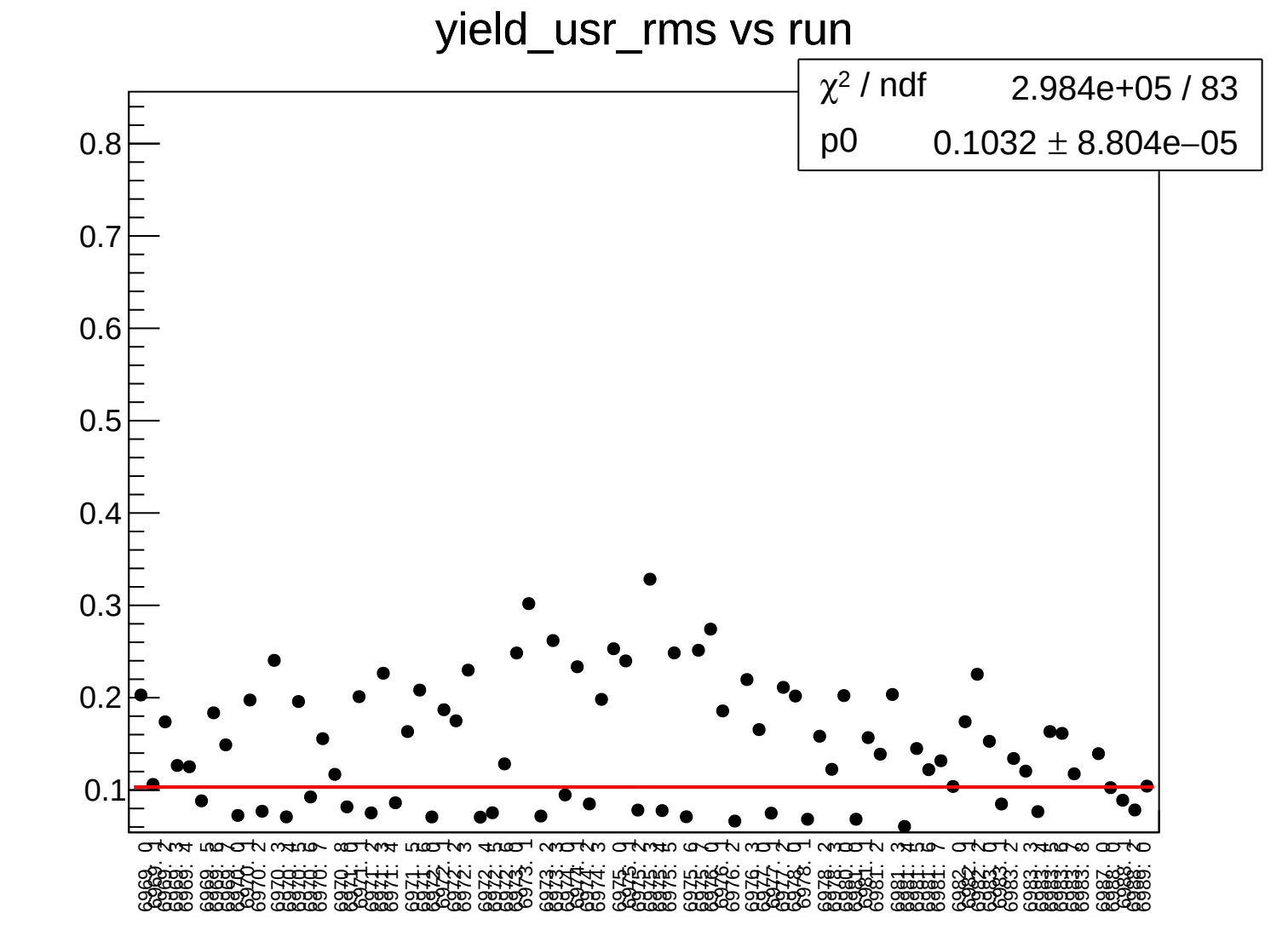

yield_usl_mean vs run
χ² / ndf 1.267e+06 / 83
p0 30.84 ± 0.0001182
31.2
31.1
31
30.9
30.8
30.7
30.6
30.5
pull
Entries 84
Mean −402
Std Dev 0
400
300
200
100
0
−100
−200

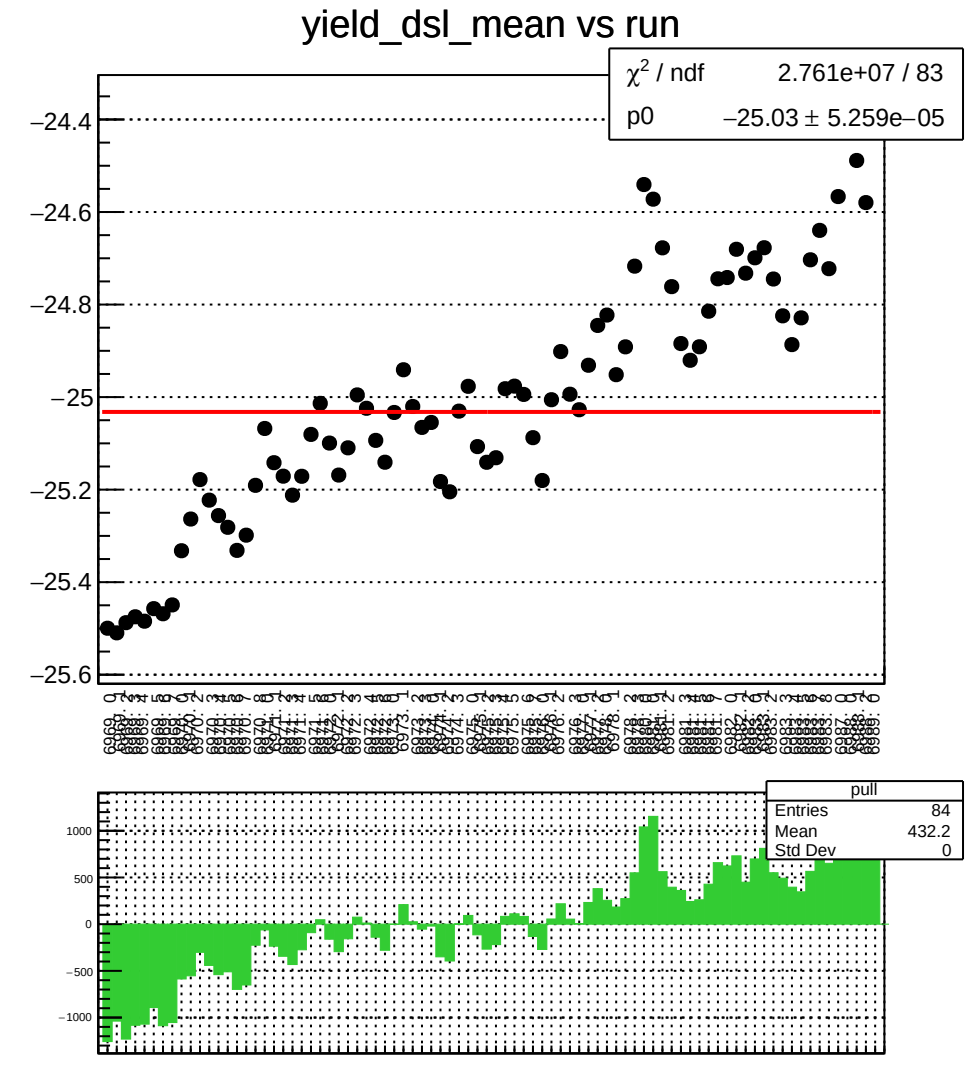

pull1D
Entries 84
Mean −0.287
Std Dev 2.971
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

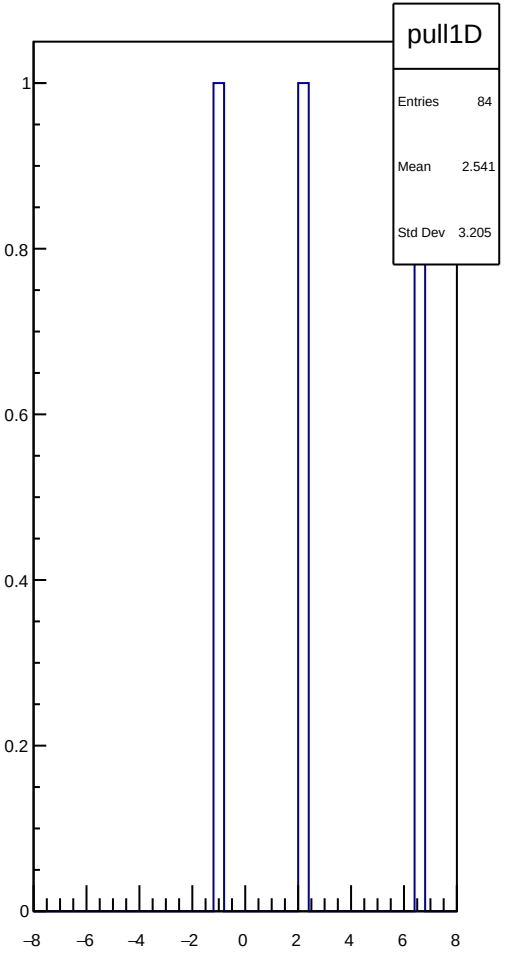

yield_usl_rms vs run
χ² / ndf 2.848e+05 / 83
p0 0.09847 ± 8.355e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

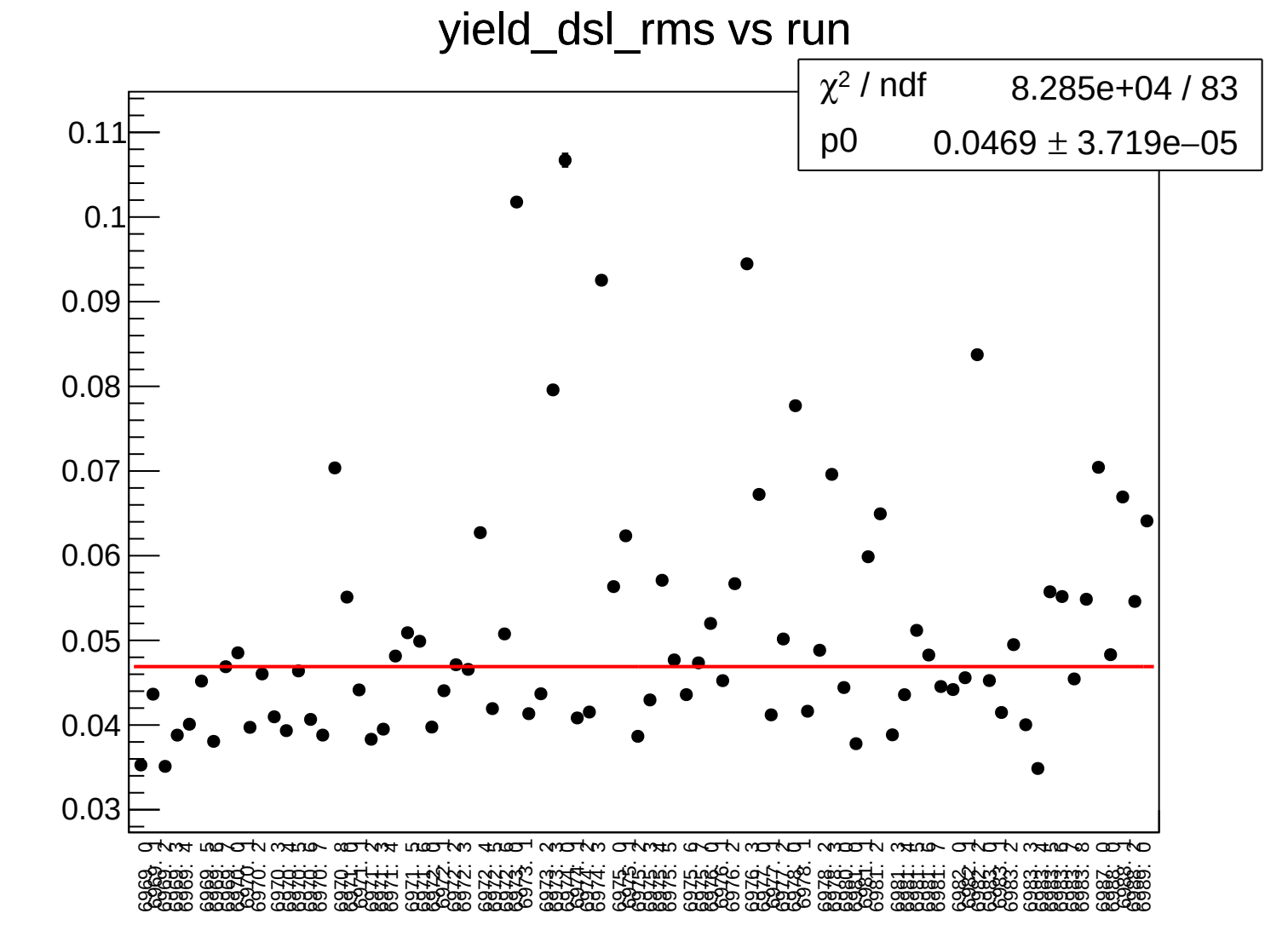

yield_usr_mean vs run
χ² / ndf 1.901e+06 / 83
p0 32.55 ± 0.0001245
32.9
32.8
32.7
32.6
32.5
32.4
32.3
pull
Entries 84
Mean 1352
Std Dev 0
400
300
200
100
0
−100
−200

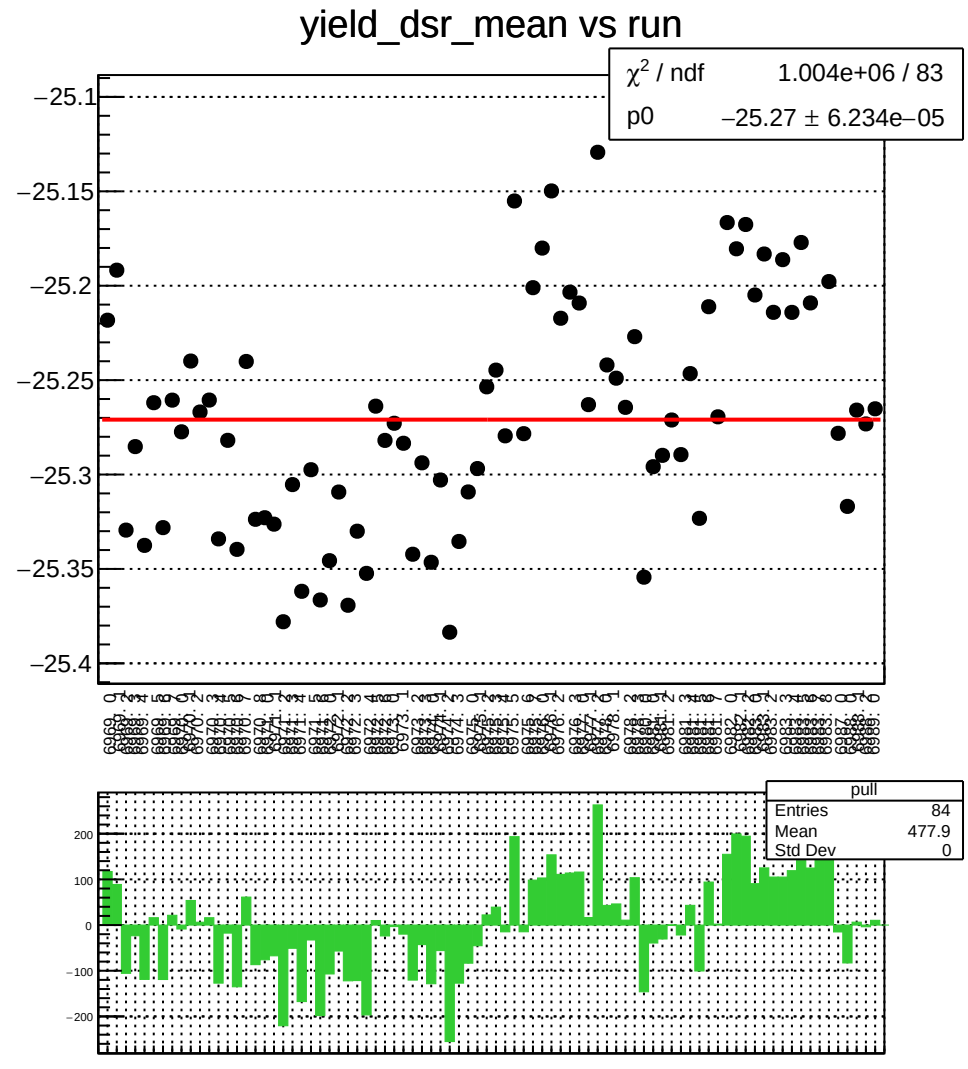

pull1D
Entries 84
Mean 3.279
Std Dev 3.696
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

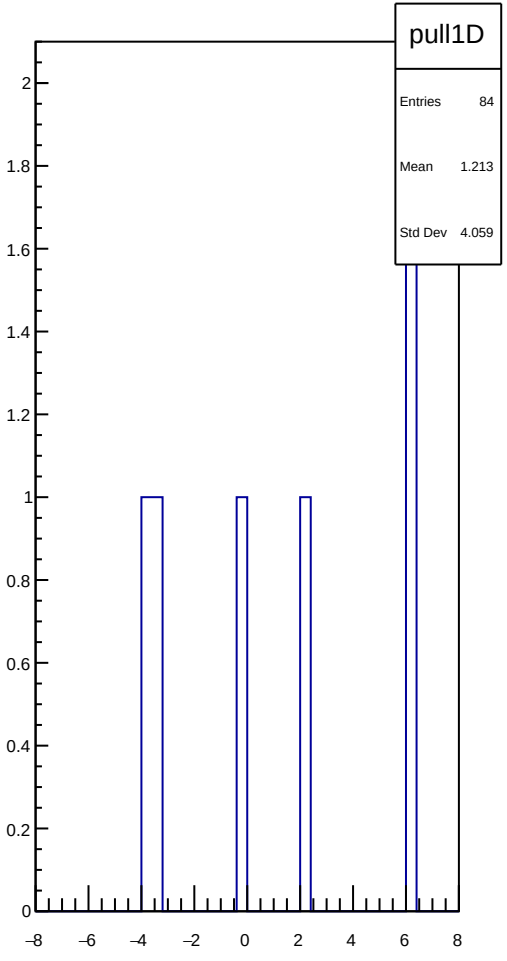

yield_usr_rms vs run
χ² / ndf 2.984e+05 / 83
p0 0.1032 ± 8.804e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

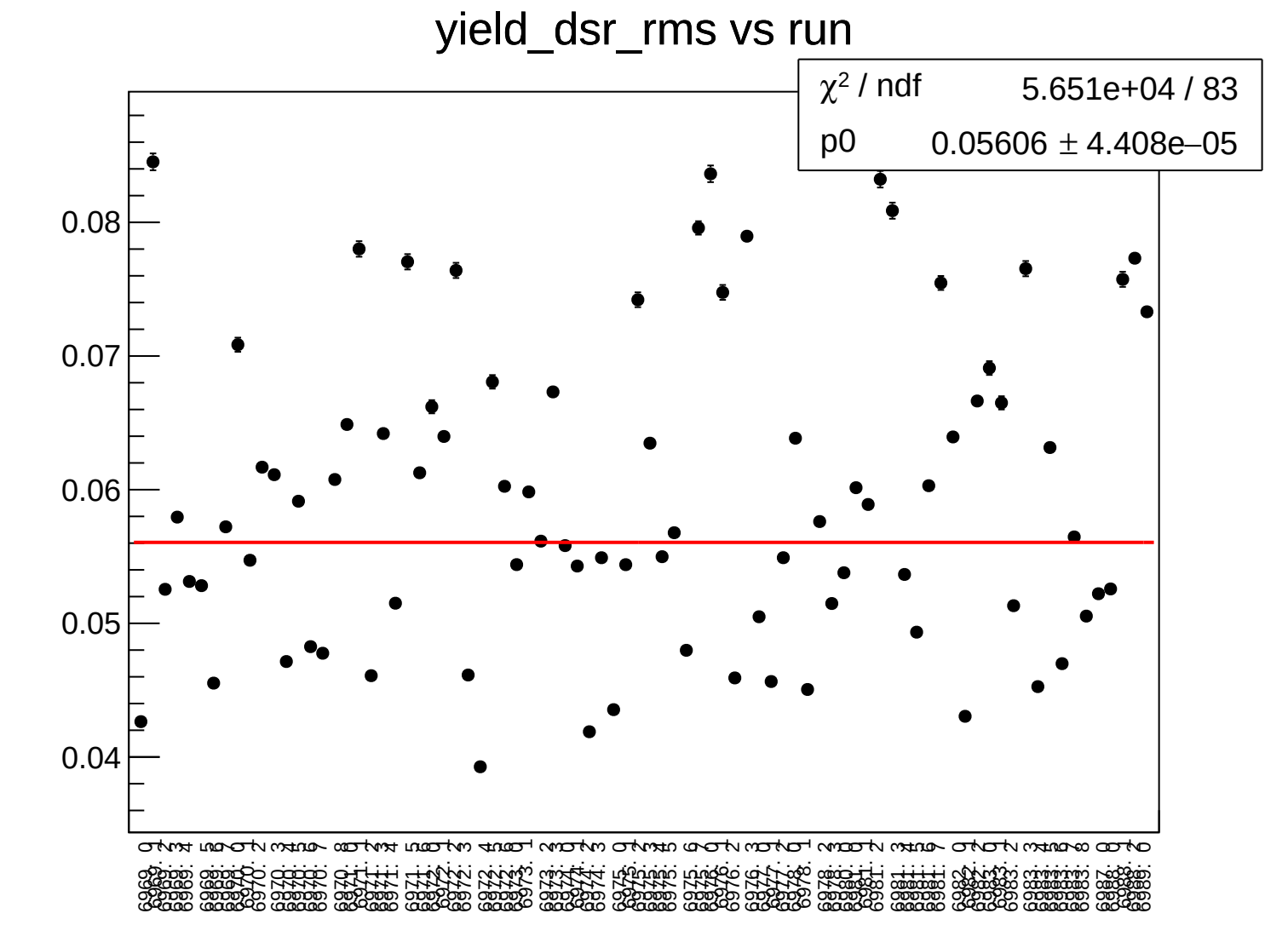

yield_dsl_mean vs run
χ² / ndf 2.761e+07 / 83
p0 −25.03 ± 5.259e−05
−24.4
−24.6
−24.8
−25
−25.2
−25.4
−25.6
pull
Entries 84
Mean 432.2
Std Dev 0
1000
500
0
−500
−1000

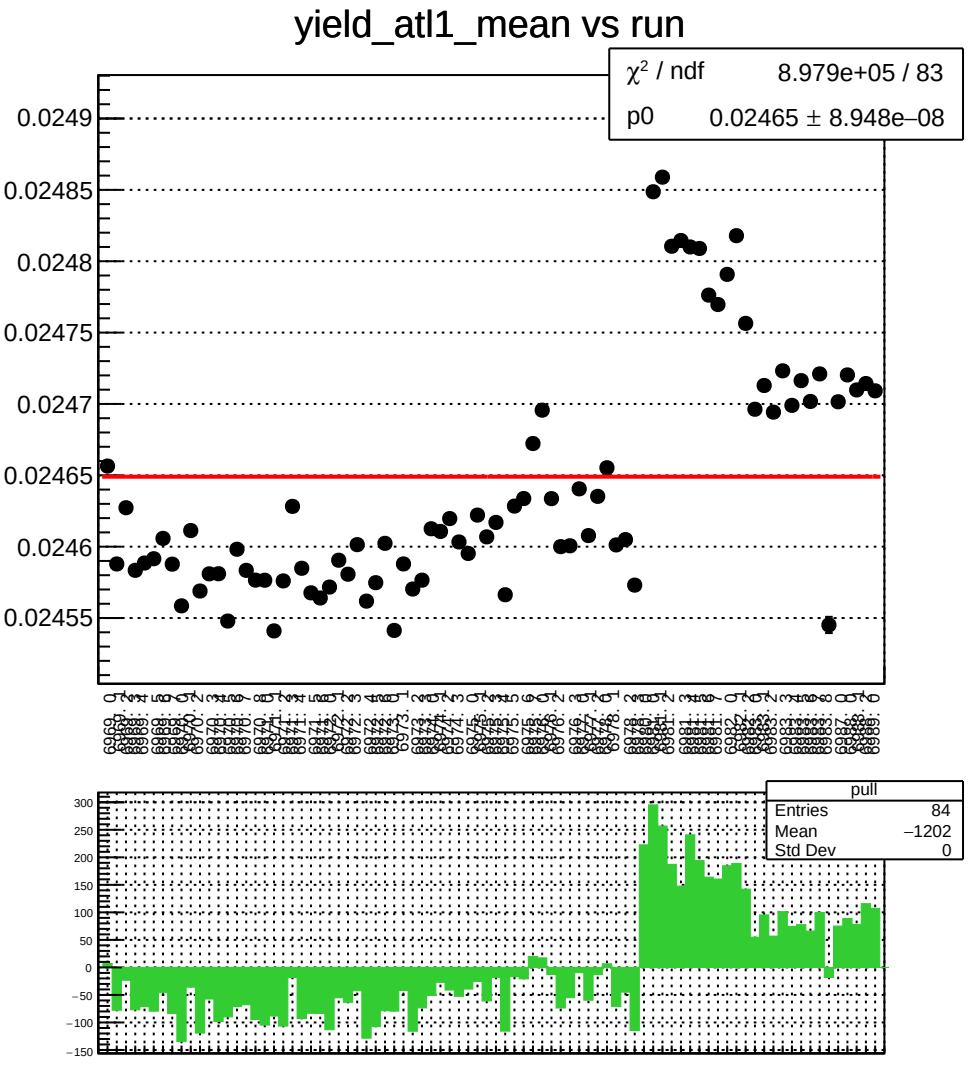

pull1D
Entries 84
Mean 2.541
Std Dev 3.205
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

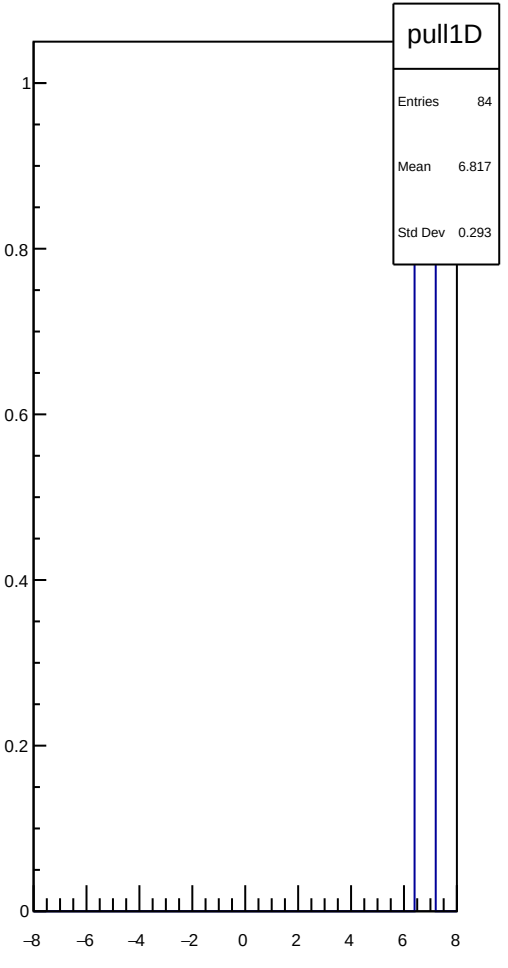

yield_dsl_rms vs run
χ^2 / ndf 8.285e+04 / 83
p0 0.0469 ± 3.719e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

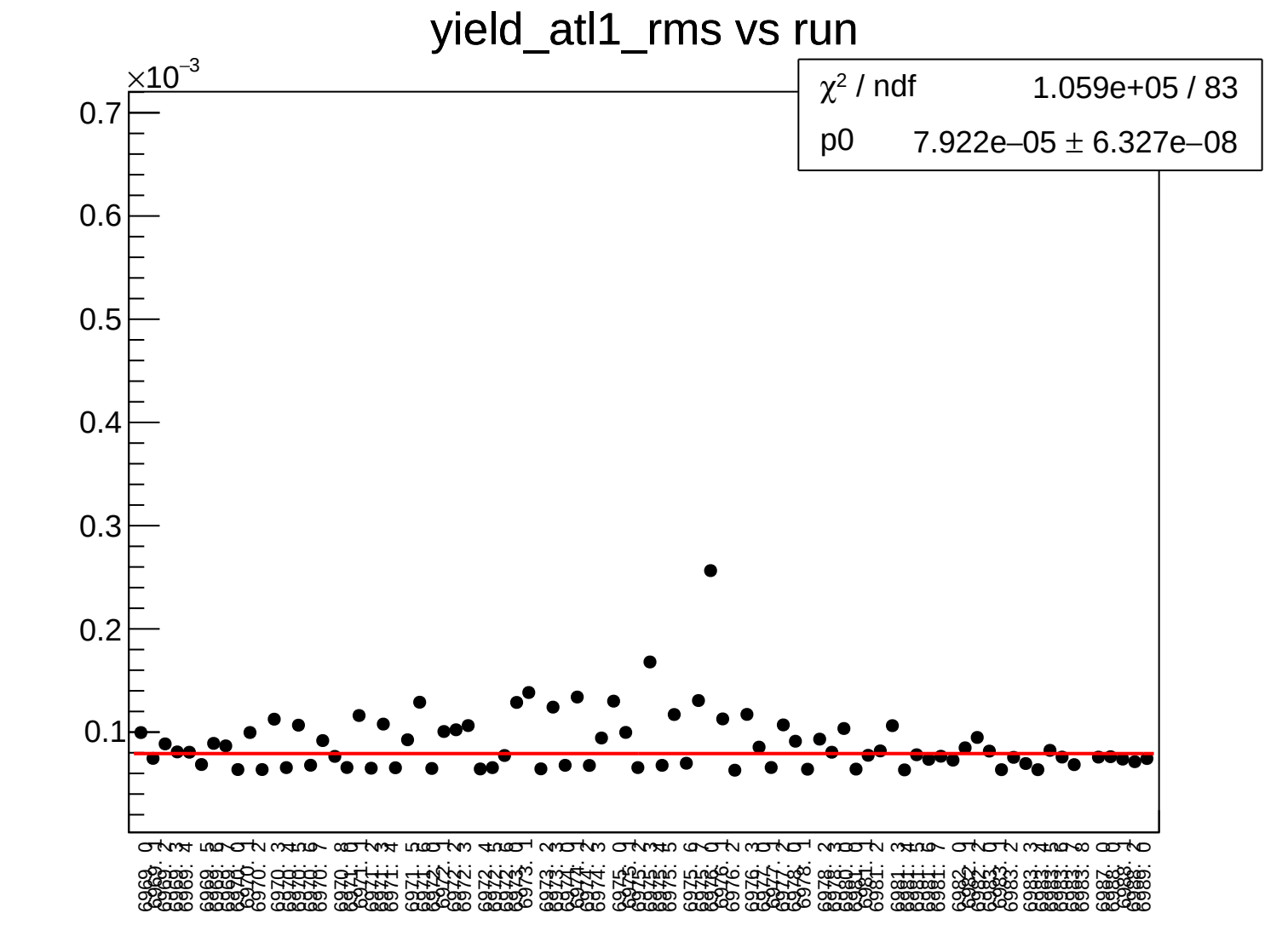

yield_dsr_mean vs run
χ² / ndf 1.004e+06 / 83
p0 −25.27 ± 6.234e−05
−25.1
−25.15
−25.2
−25.25
−25.3
−25.35
−25.4
pull
Entries 84
Mean 477.9
Std Dev 0
200
100
0
−100
−200

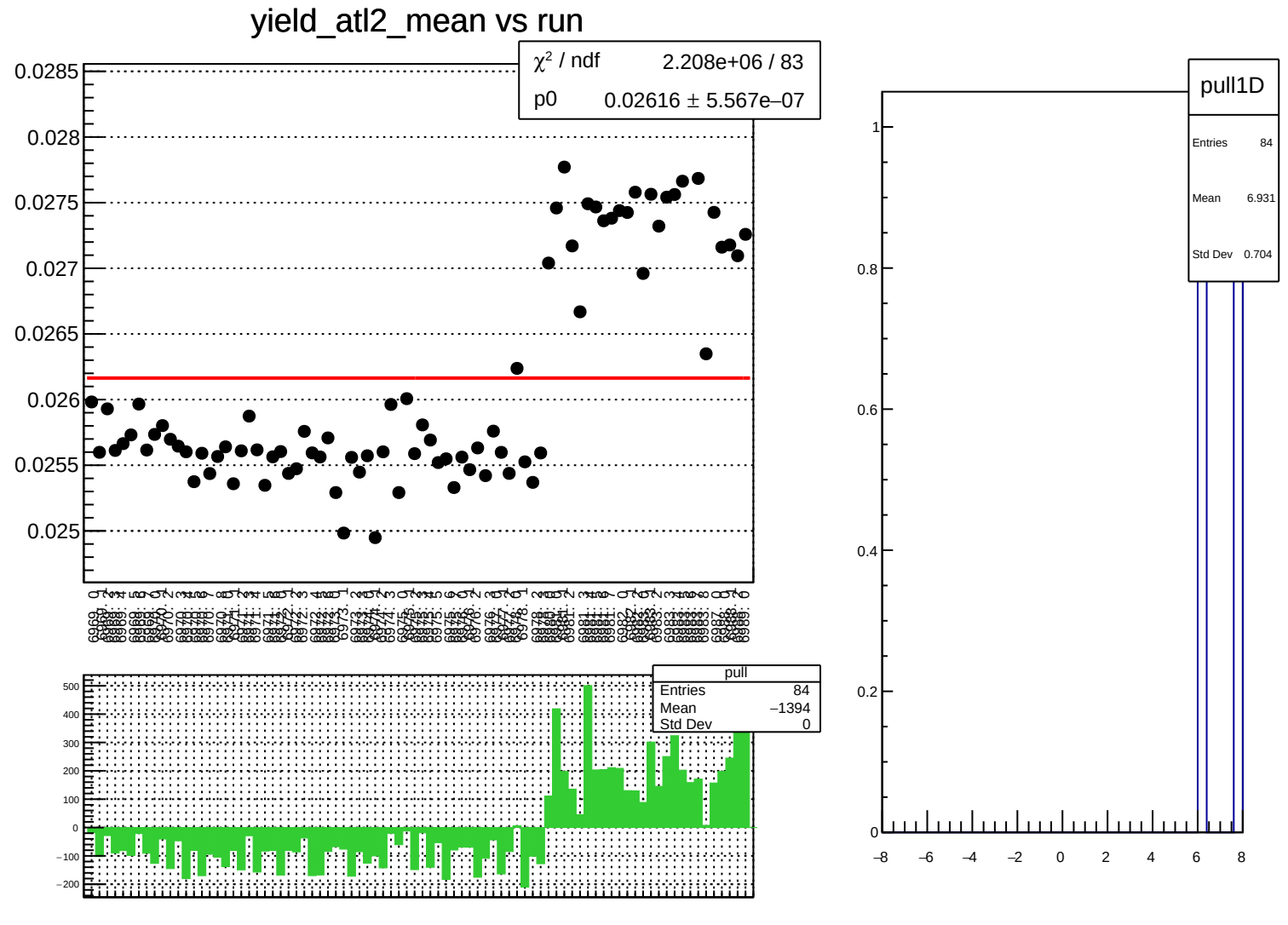

pull1D
Entries 84
Mean 1.213
Std Dev 4.059
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

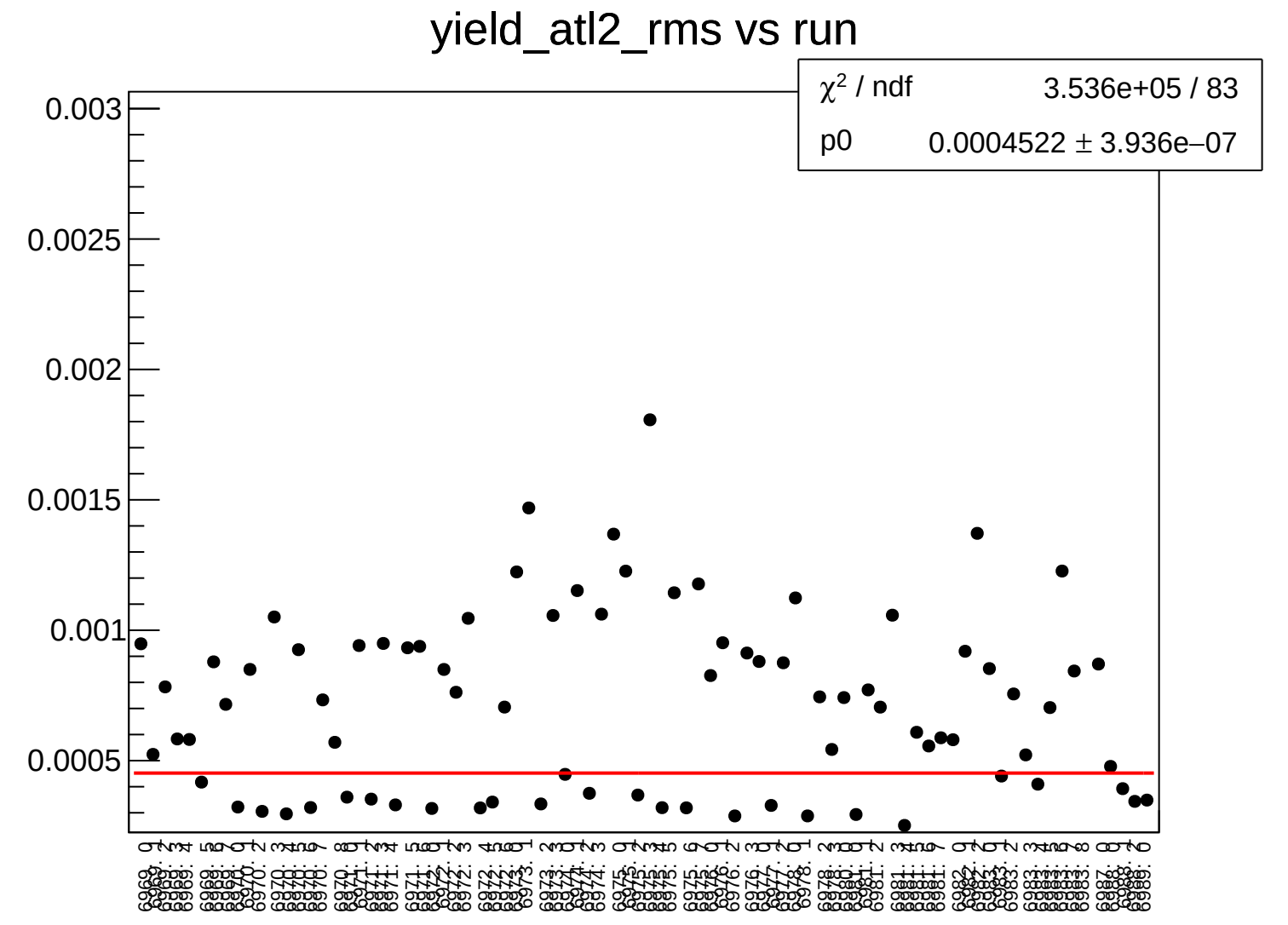

yield_dsr_rms vs run
χ^2 / ndf 5.651e+04 / 83
p0 0.05606 ± 4.408e–05
0.08
0.07
0.06
0.05
0.04

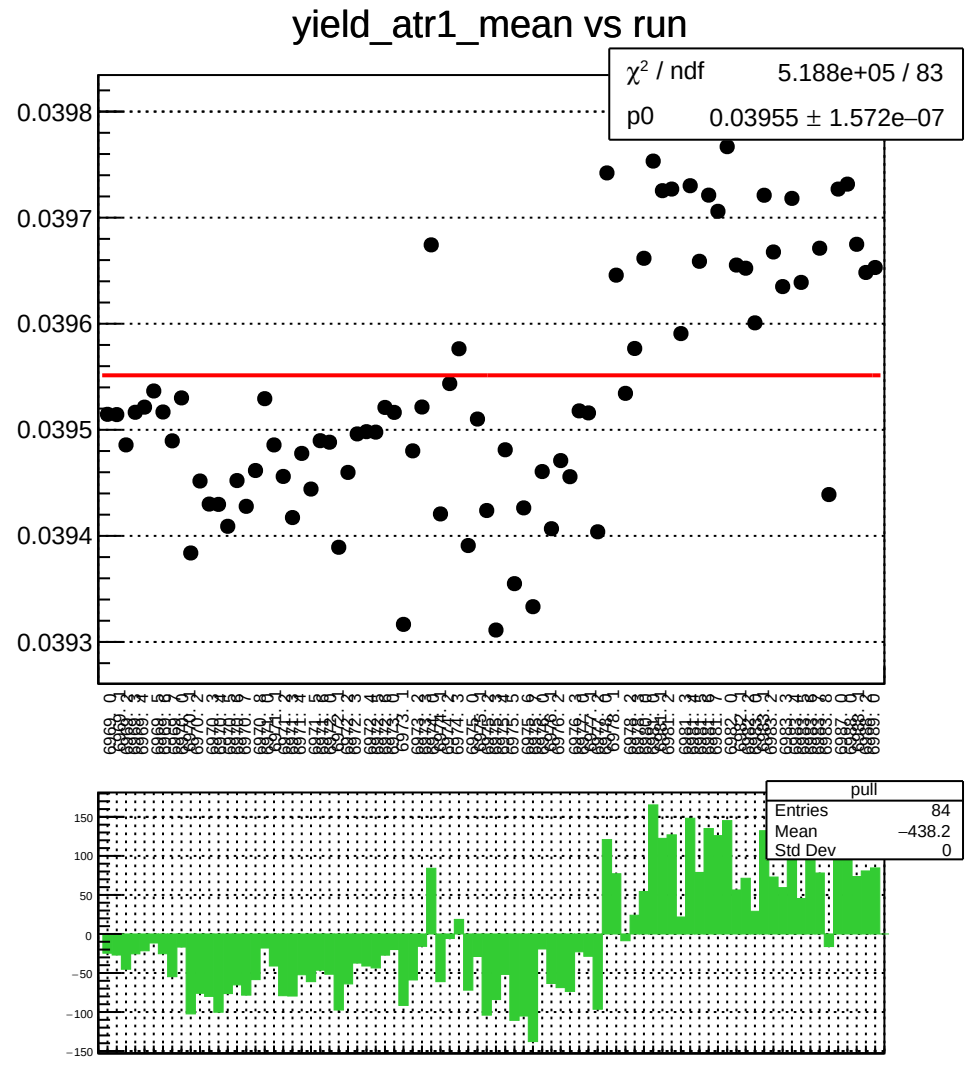

yield_atl1_mean vs run
χ² / ndf 8.979e+05 / 83
p0 0.02465 ± 8.948e−08
0.0249
0.02485
0.0248
0.02475
0.0247
0.02465
0.0246
0.02455
pull
Entries 84
Mean −1202
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

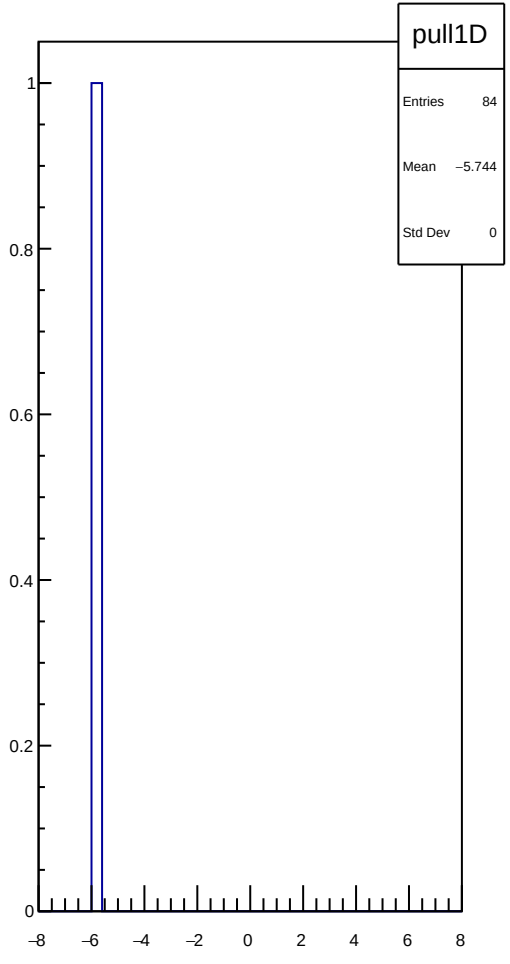

pull1D
Entries 84
Mean 6.817
Std Dev 0.293
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

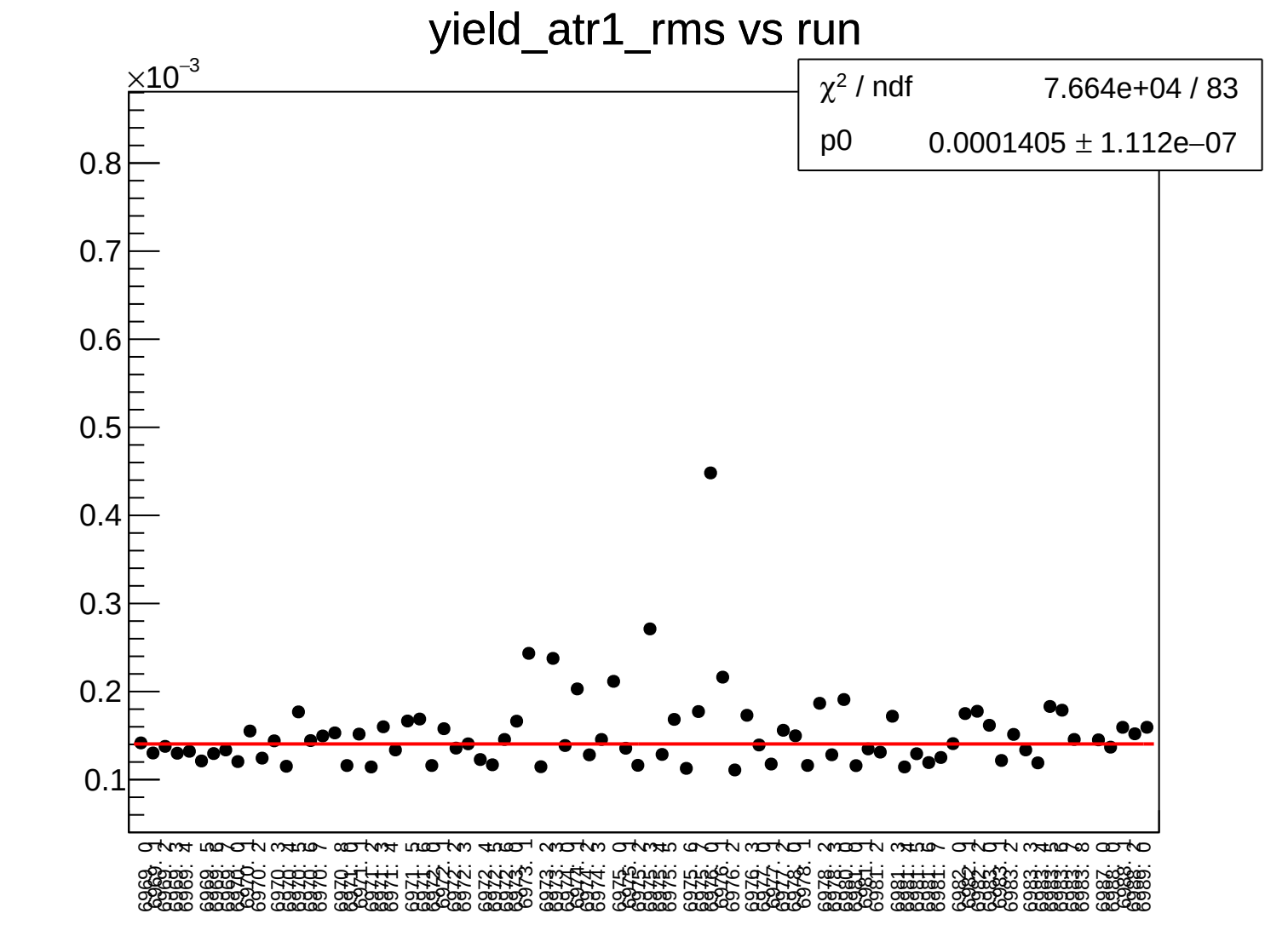

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.059e+05 / 83
p0 7.922e−05 ± 6.327e−08
0.7
0.6
0.5
0.4
0.3
0.2
0.1

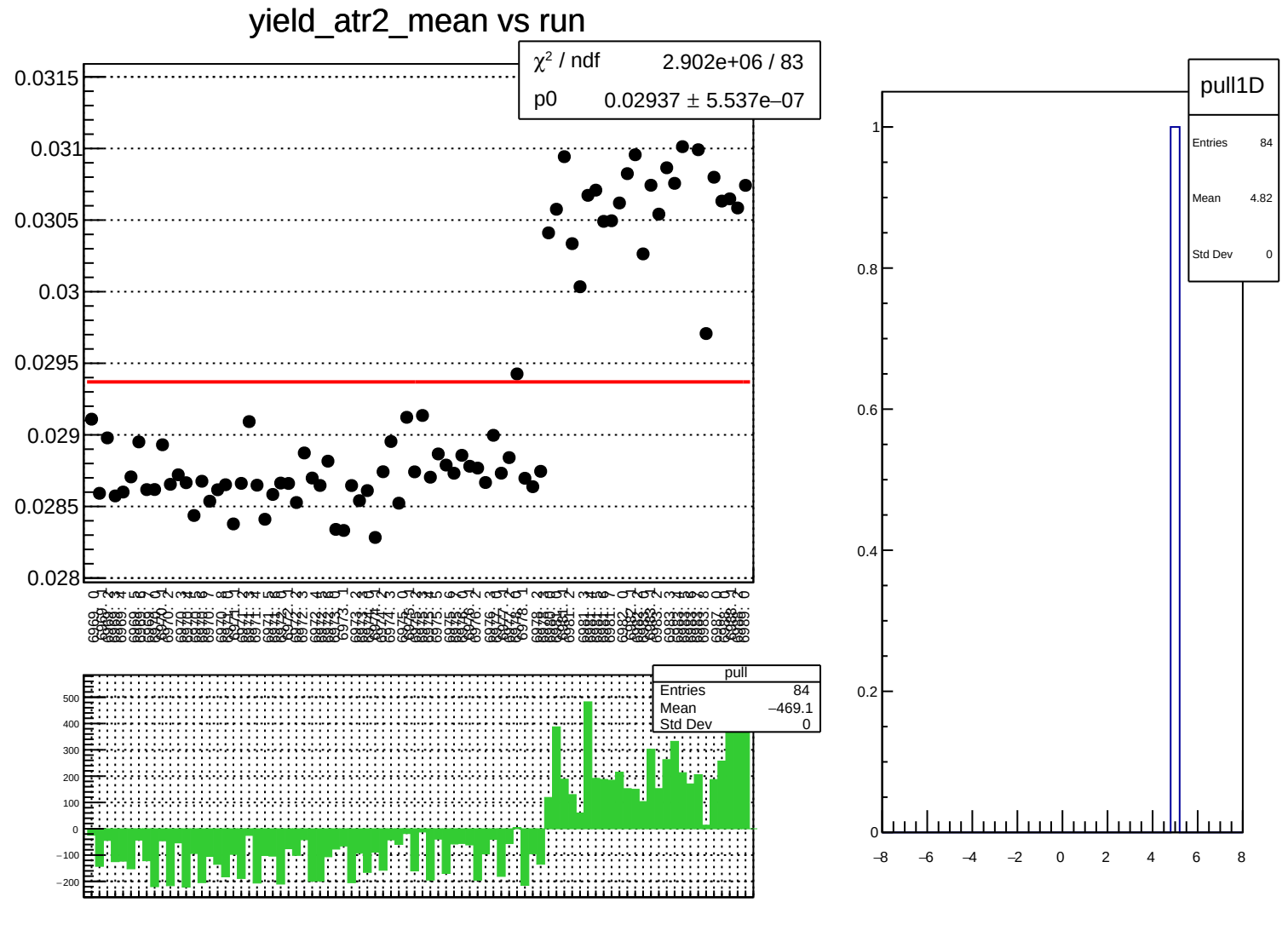

yield_atl2_mean vs run
χ² / ndf 2.208e+06 / 83
p0 0.02616 ± 5.567e−07
0.0285
0.028
0.0275
0.027
0.0265
0.026
0.0255
0.025
pull
Entries 84
Mean −1394
Std Dev 0
500
400
300
200
100
0
−100
−200
pull1D
Entries 84
Mean 6.931
Std Dev 0.704
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

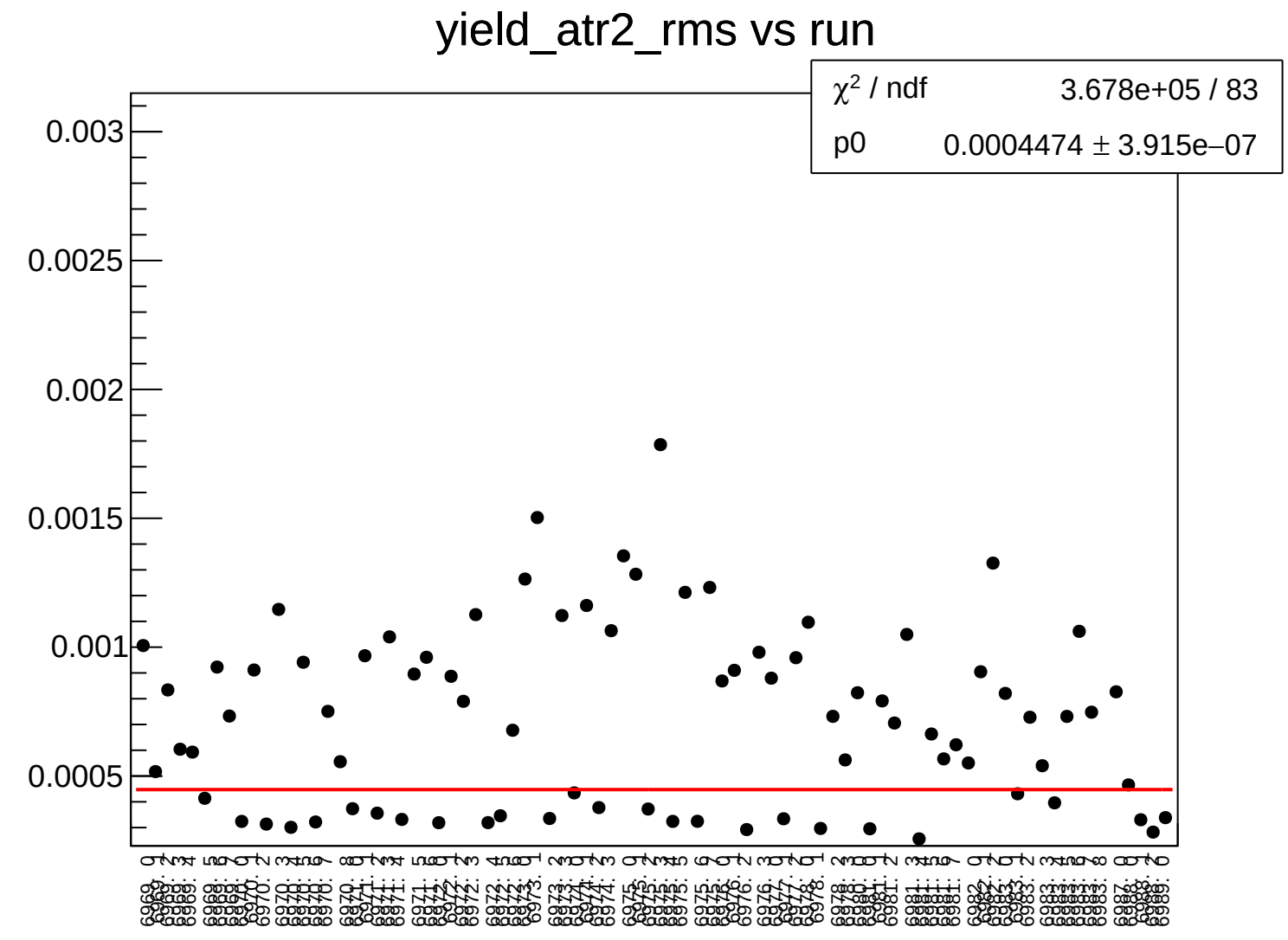

yield_atl2_rms vs run
χ² / ndf 3.536e+05 / 83
p0 0.0004522 ± 3.936e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

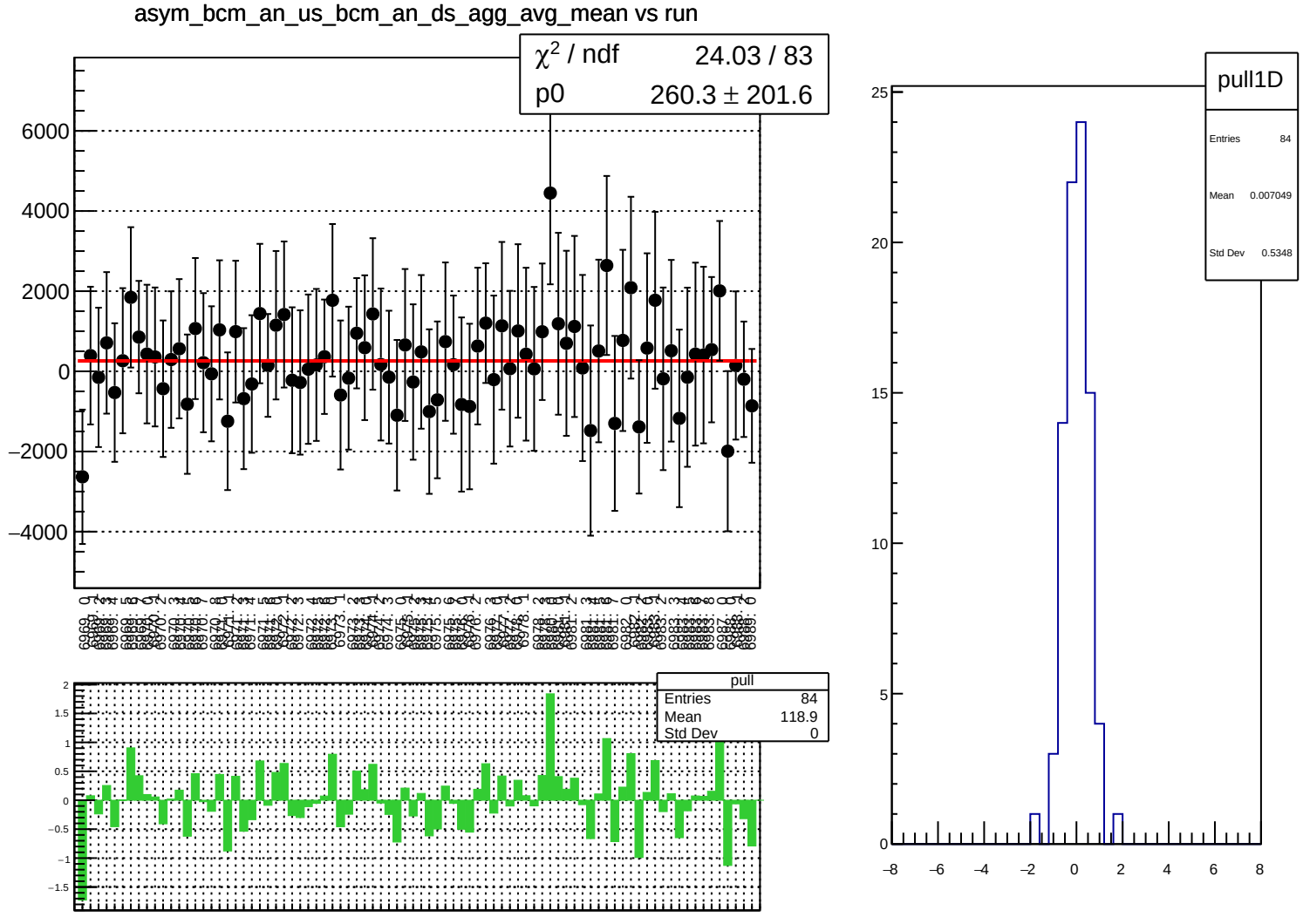

yield_atr1_mean vs run
χ² / ndf 5.188e+05 / 83
p0 0.03955 ± 1.572e−07
0.0398
0.0397
0.0396
0.0395
0.0394
0.0393
pull
Entries 84
Mean −438.2
Std Dev 0
150
100
50
0
−50
−100
−150

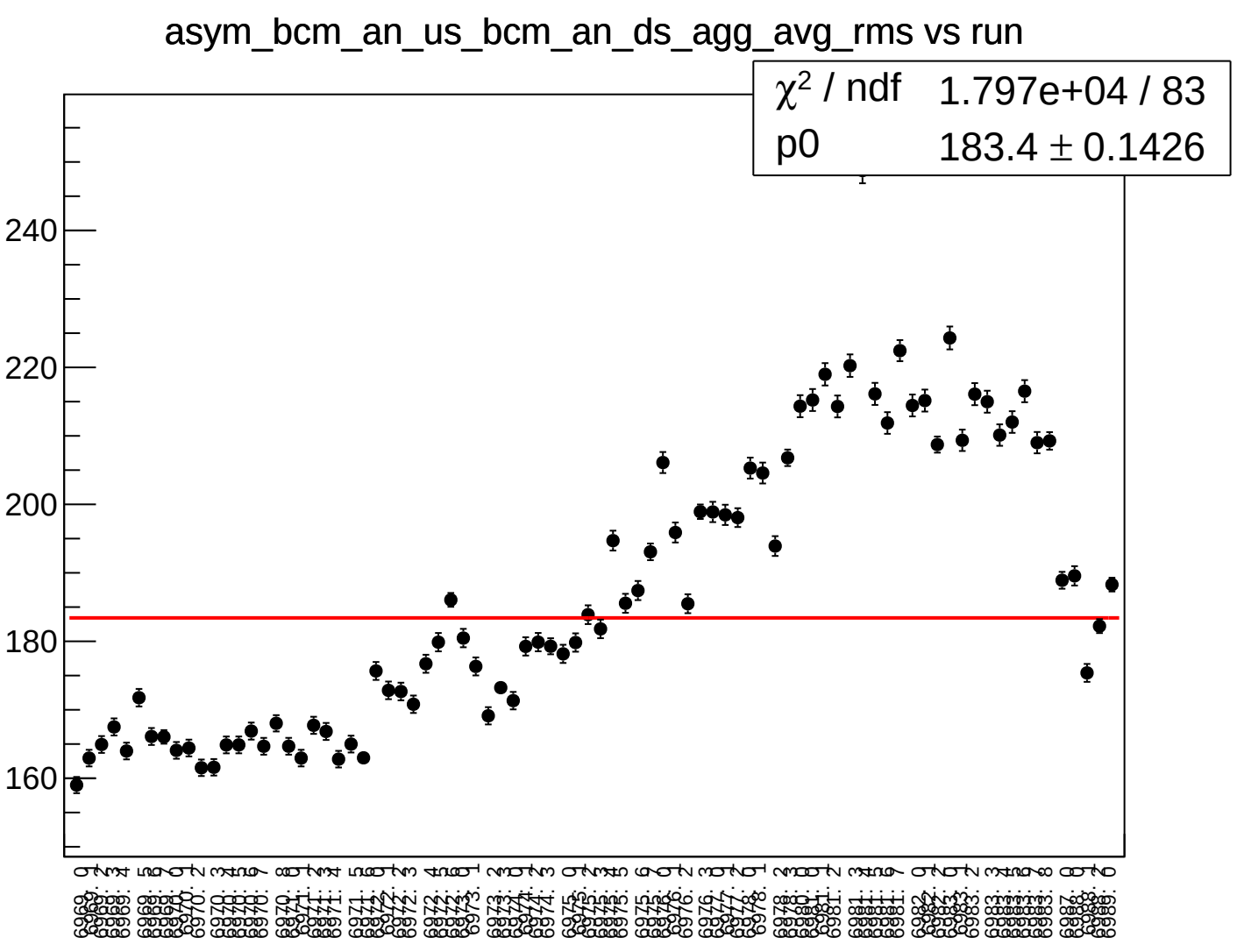

pull1D
Entries 84
Mean −5.744
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

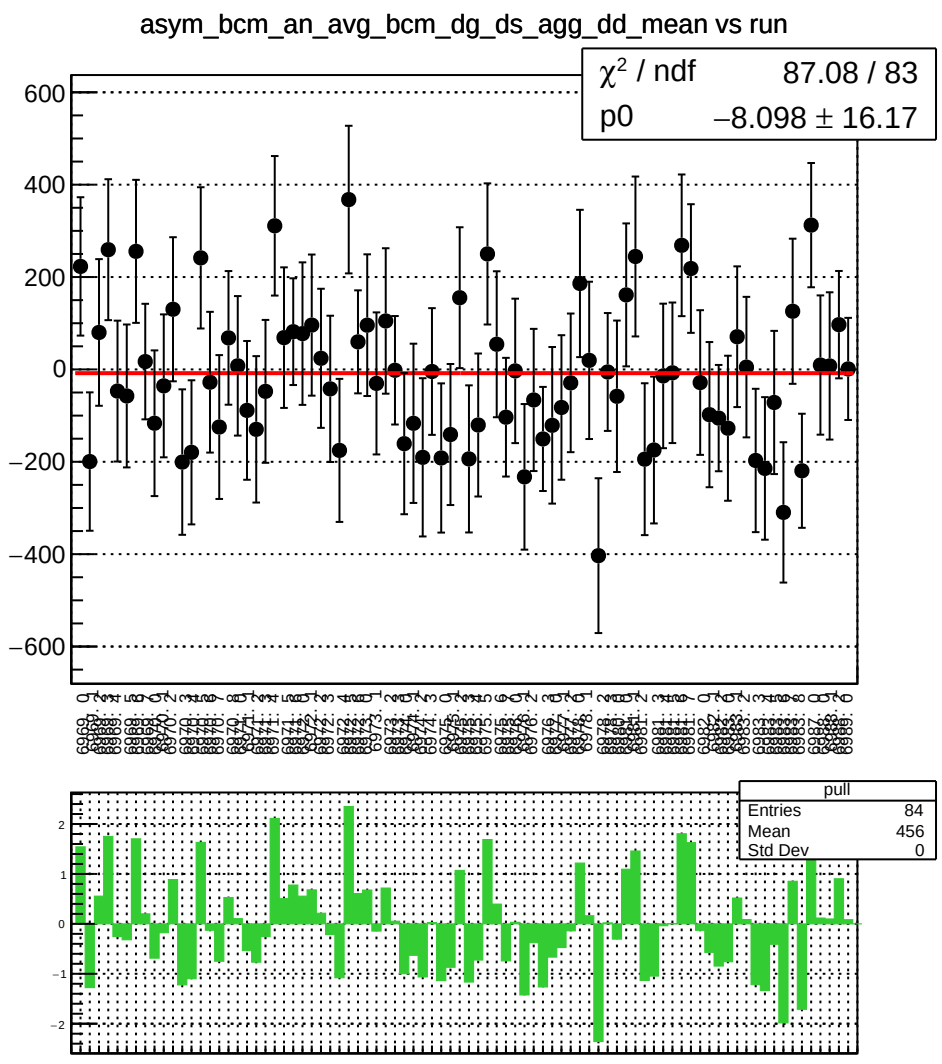

yield_atr1_rms vs run
×10⁻³
χ² / ndf 7.664e+04 / 83
p0 0.0001405 ± 1.112e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

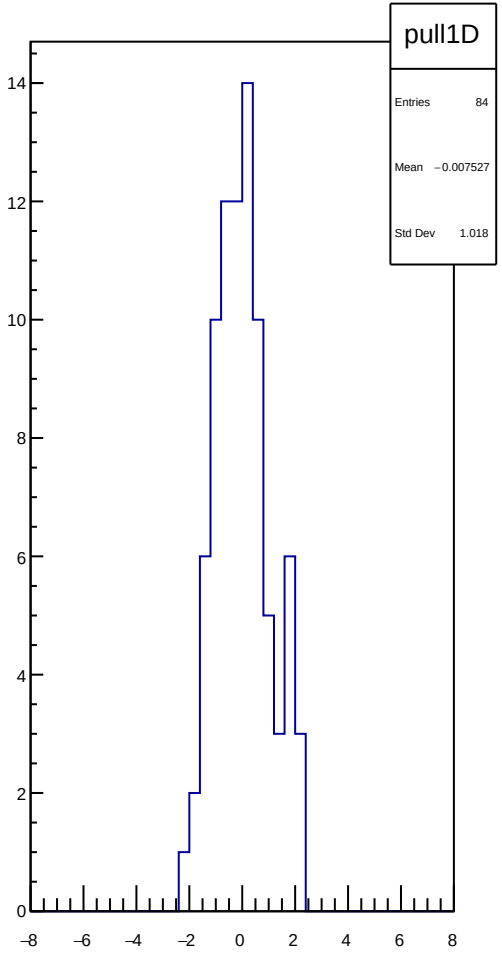

yield_atr2_mean vs run
χ² / ndf 2.902e+06 / 83
p0 0.02937 ± 5.537e−07
0.0315
0.031
0.0305
0.03
0.0295
0.029
0.0285
0.028
pull
Entries 84
Mean −469.1
Std Dev 0
500
400
300
200
100
0
−100
−200
pull1D
Entries 84
Mean 4.82
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

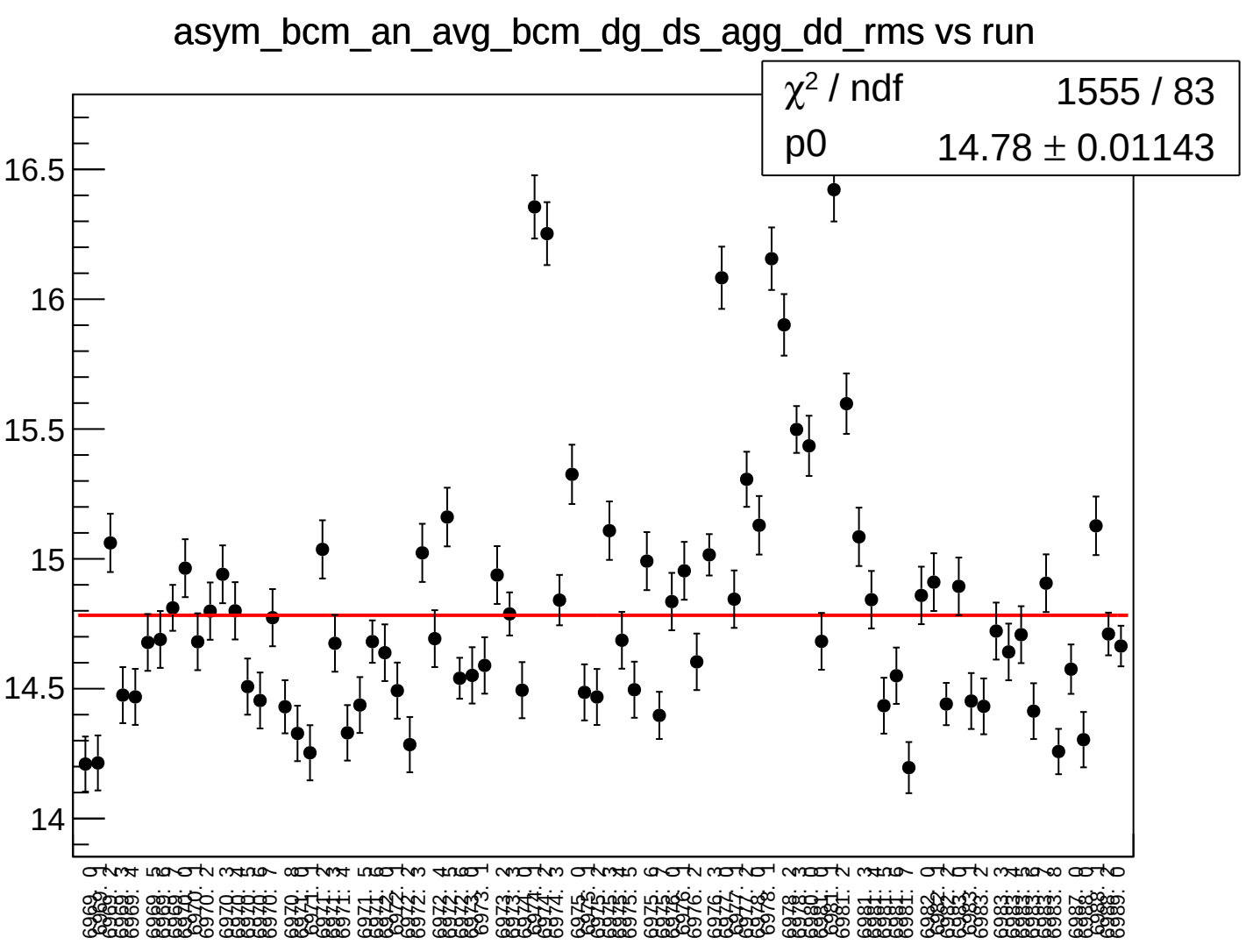

yield_atr2_rms vs run
χ² / ndf 3.678e+05 / 83
p0 0.0004474 ± 3.915e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

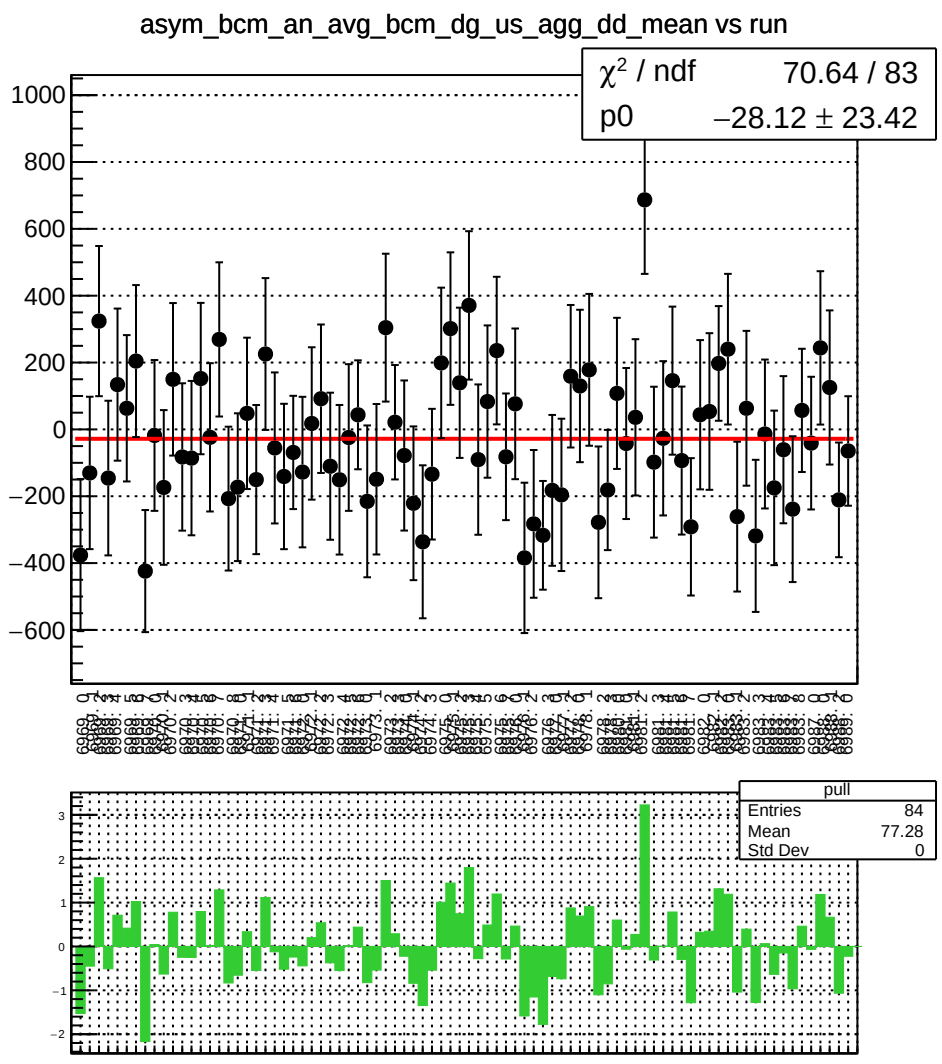

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.03 / 83
p0 260.3 ± 201.6
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 118.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.007049
Std Dev 0.5348
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

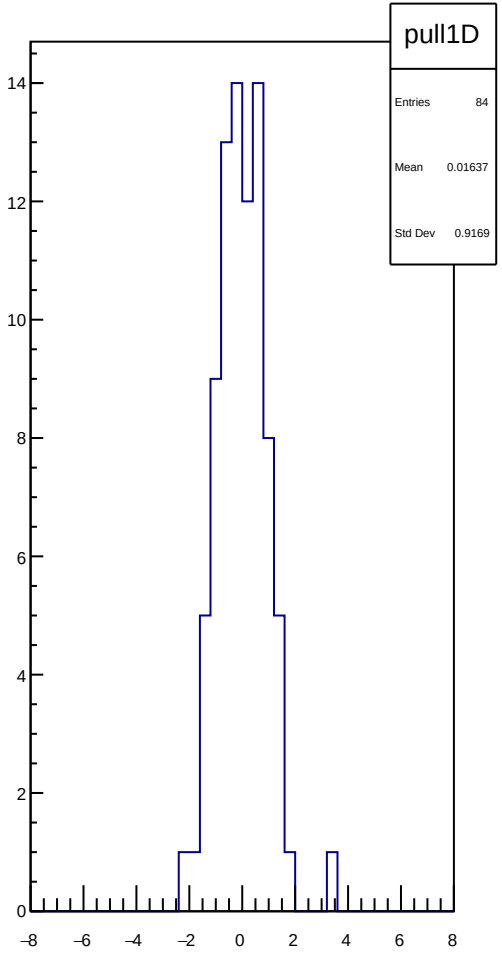

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.797e+04 / 83
p0 183.4 ± 0.1426
240
220
200
180
160

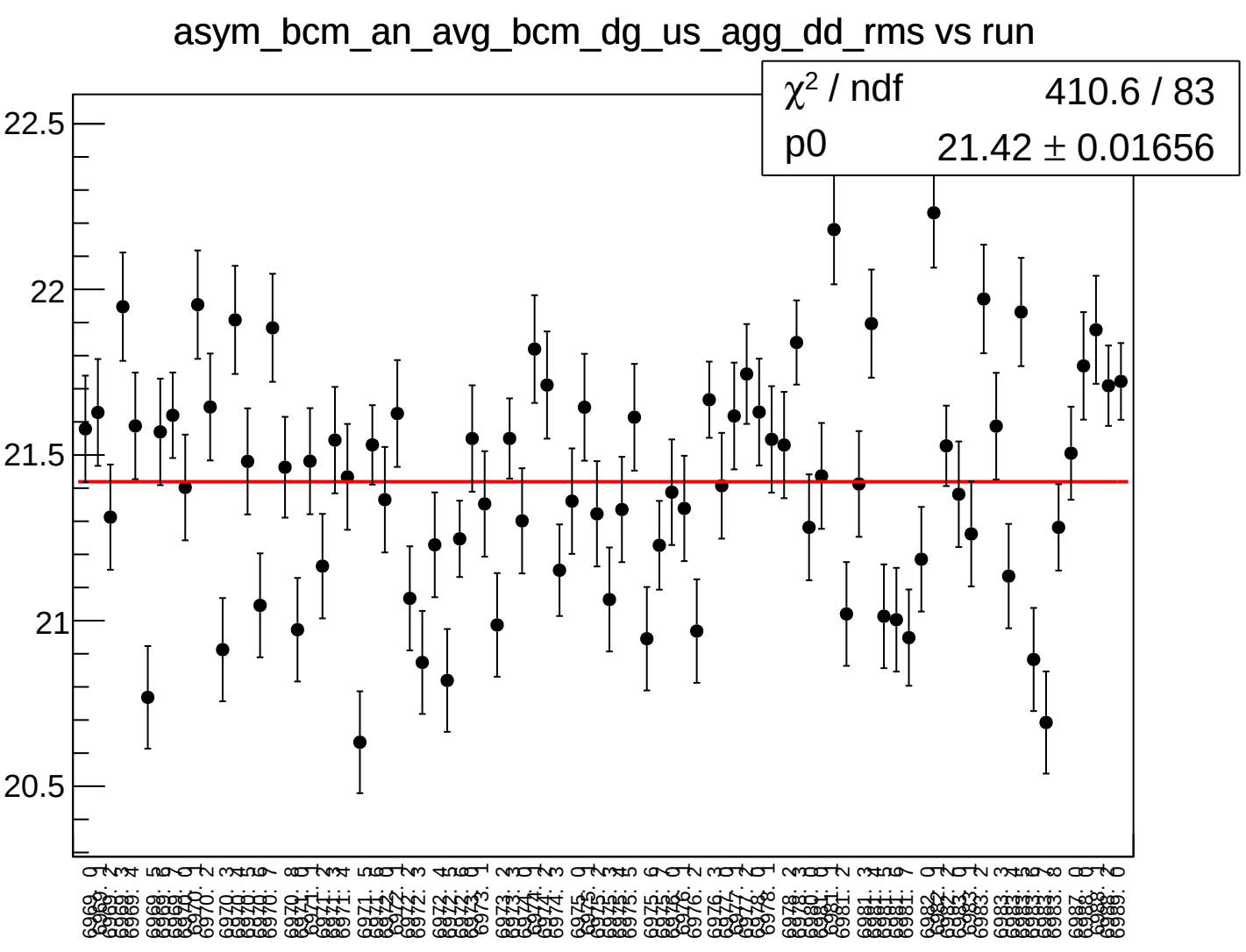

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 87.08 / 83
p0 −8.098 ± 16.17
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 456
Std Dev 0
2
1
0
−1
−2

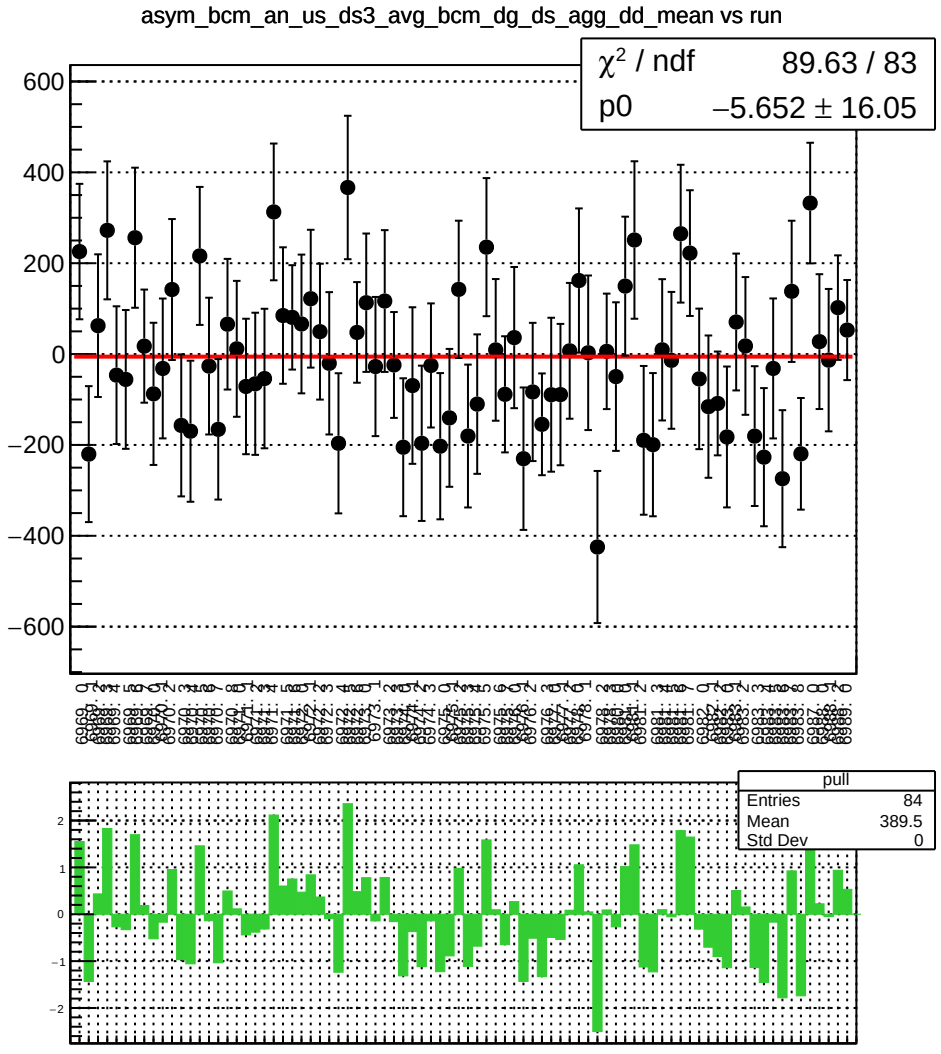

pull1D
Entries 84
Mean −0.007527
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

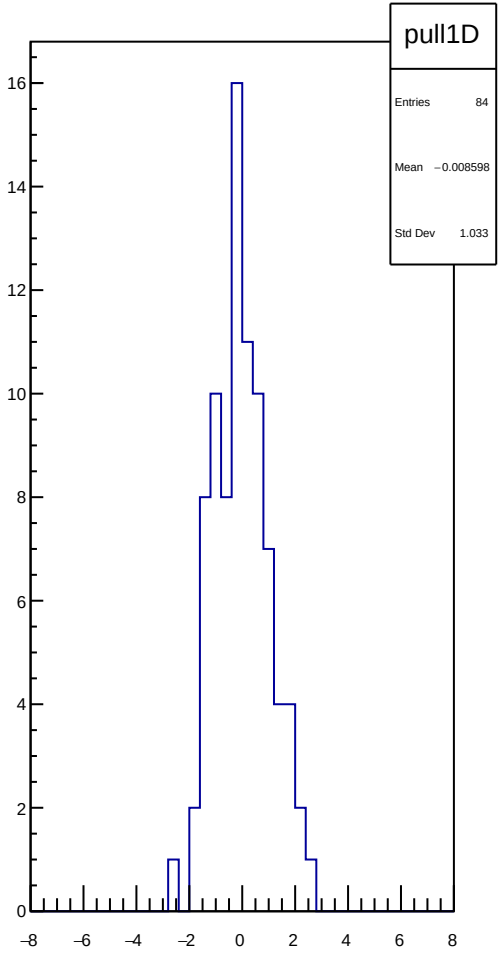

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1555 / 83
p0 14.78 ± 0.01143
16.5
16
15.5
15
14.5
14

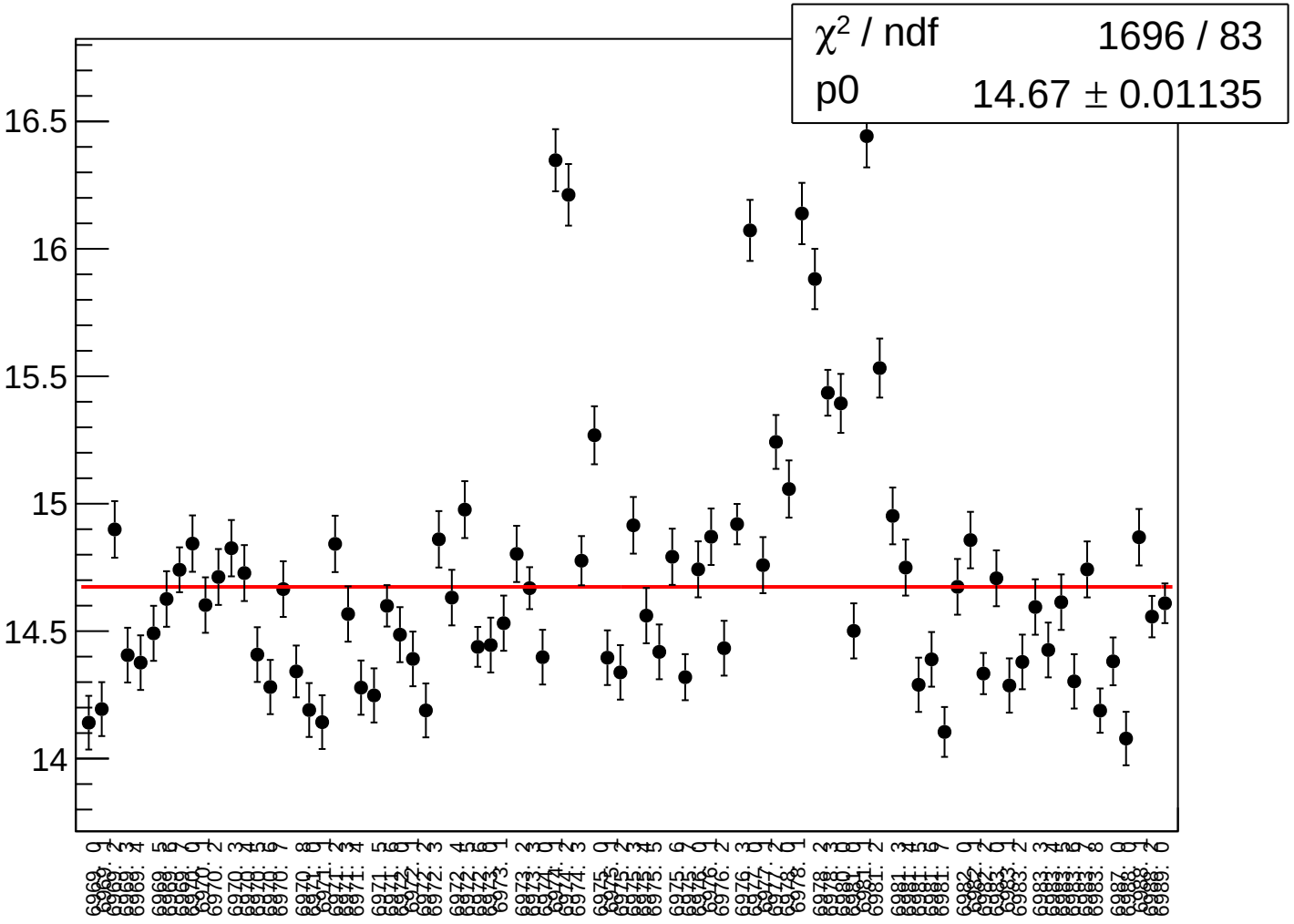

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.64 / 83
p0 −28.12 ± 23.42
pull
Entries 84
Mean 77.28
Std Dev 0

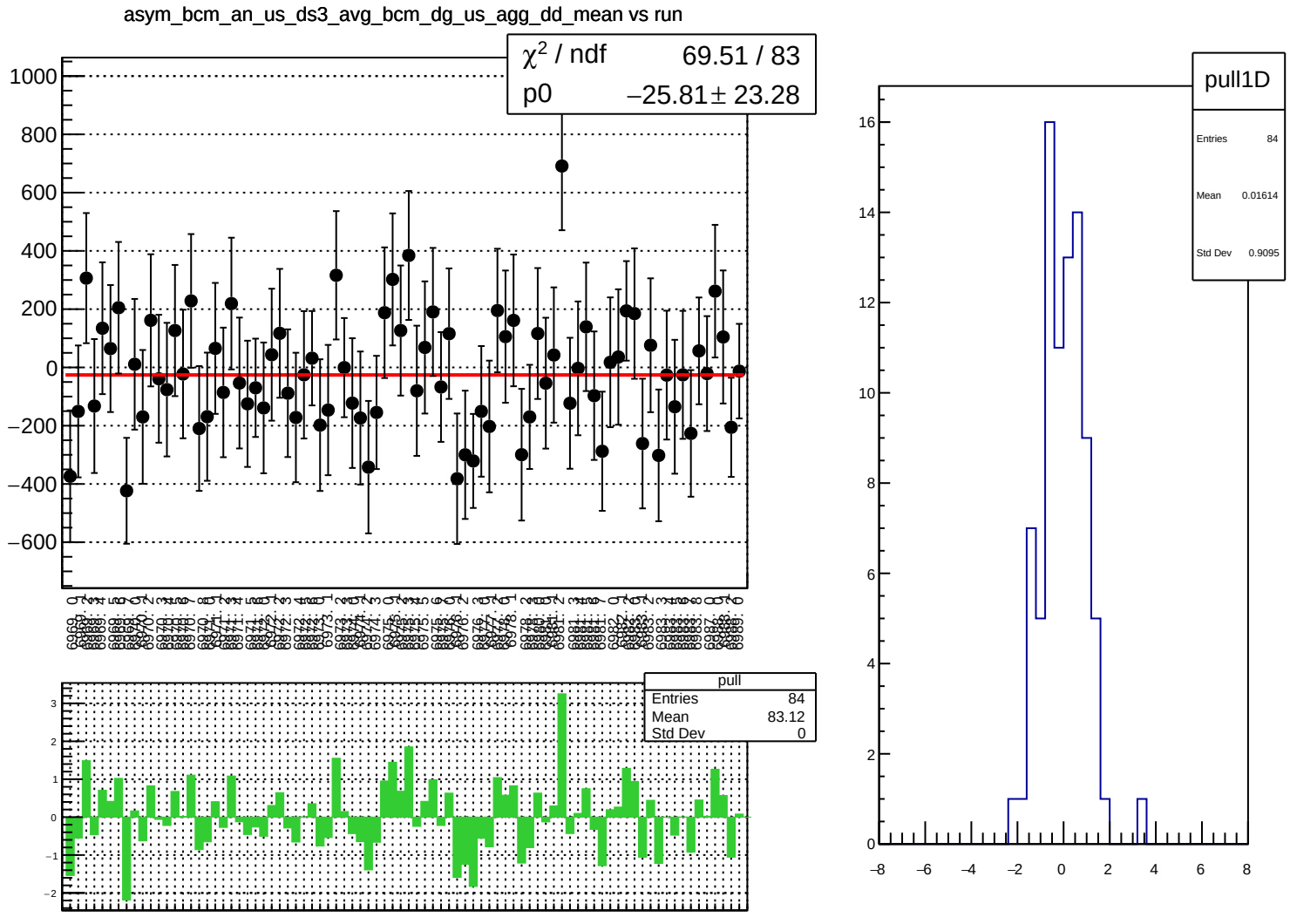

pull1D
Entries 84
Mean 0.01637
Std Dev 0.9169

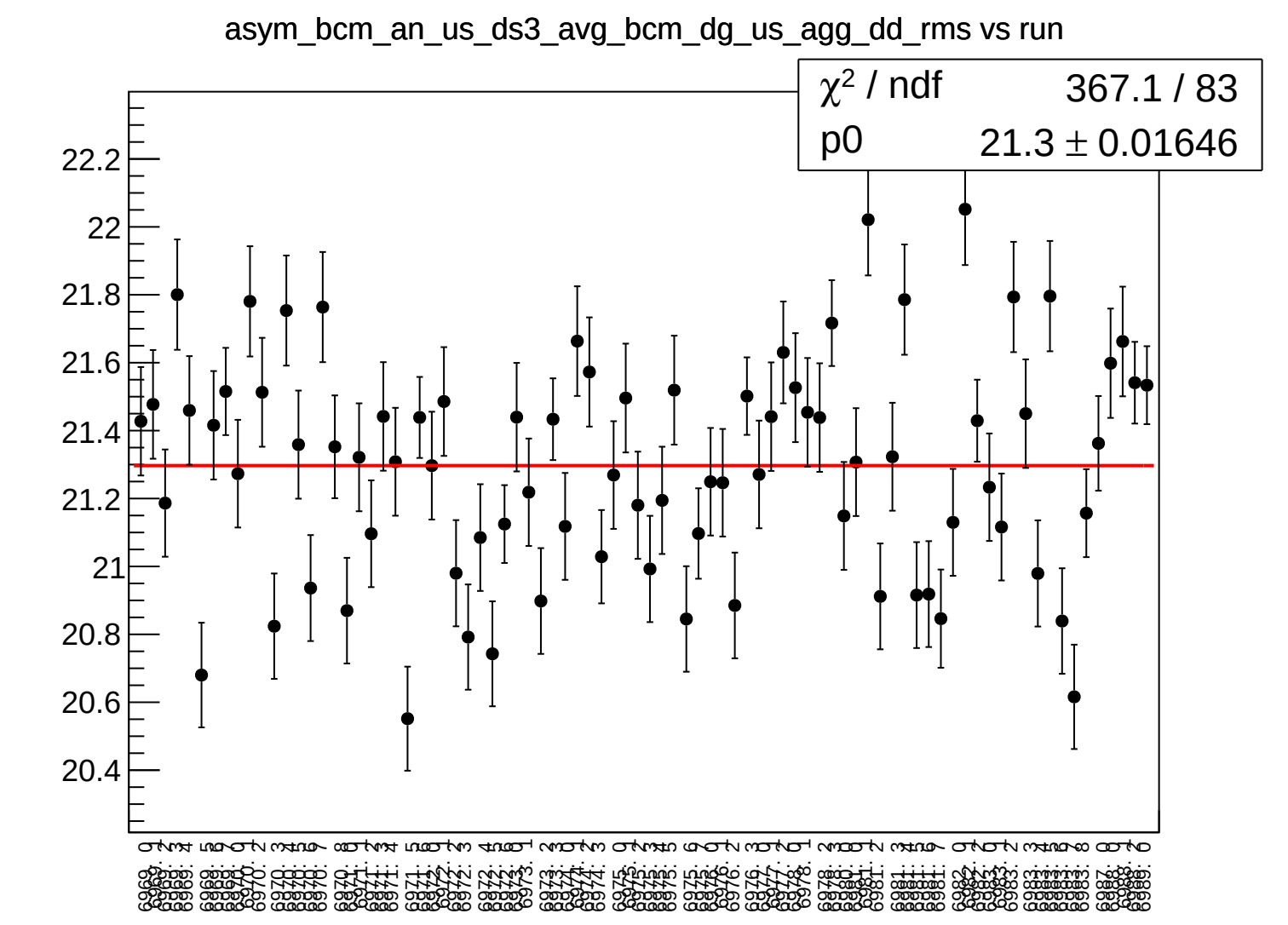

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 410.6 / 83
p0 21.42 ± 0.01656
22.5
22
21.5
21
20.5

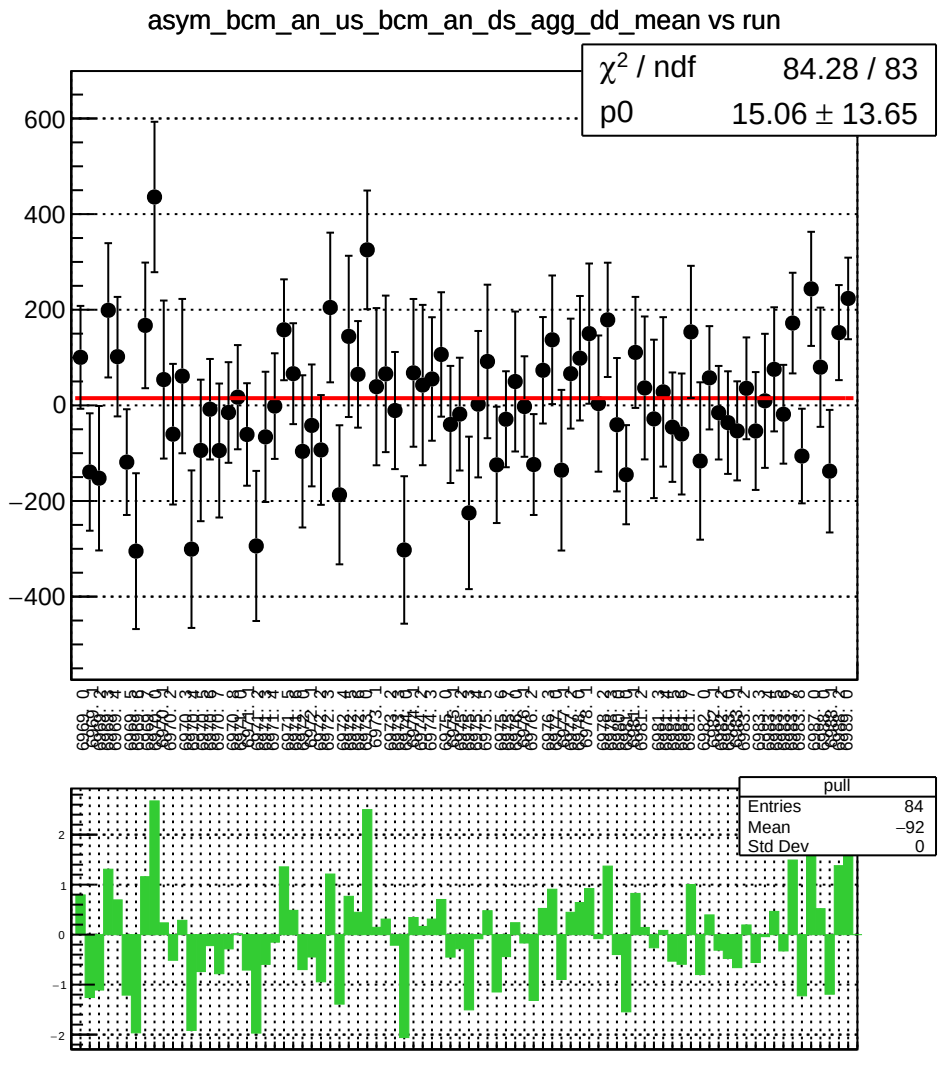

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 89.63 / 83
p0 −5.652 ± 16.05
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 389.5
Std Dev 0
2
1
0
−1
−2

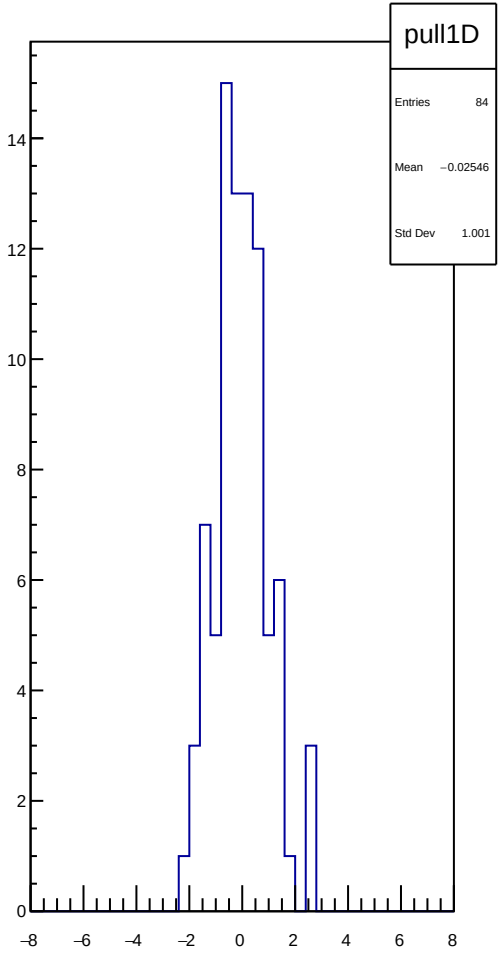

pull1D
Entries 84
Mean −0.008598
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

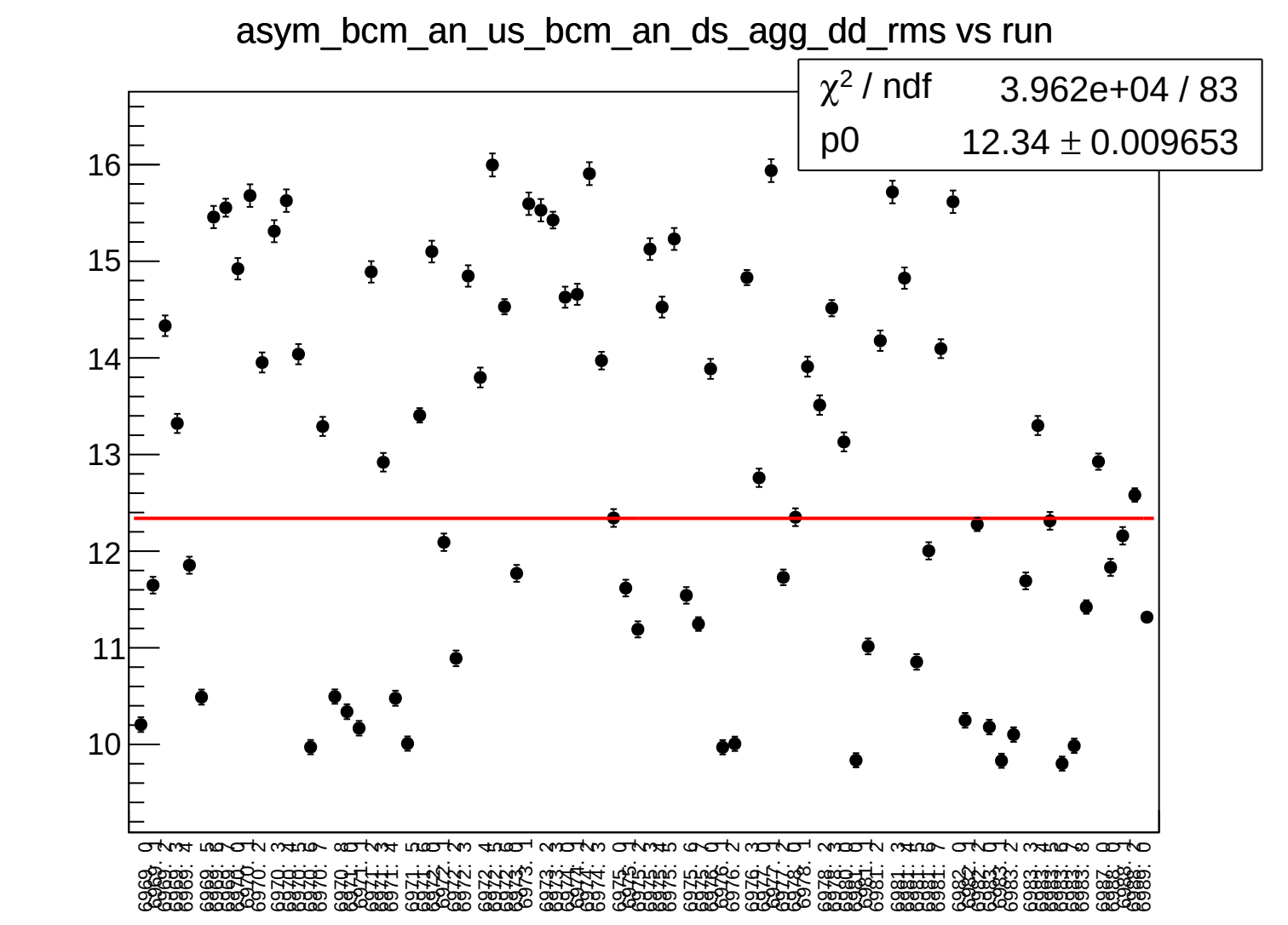

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1696 / 83
p0 14.67 ± 0.01135
16.5
16
15.5
15
14.5
14

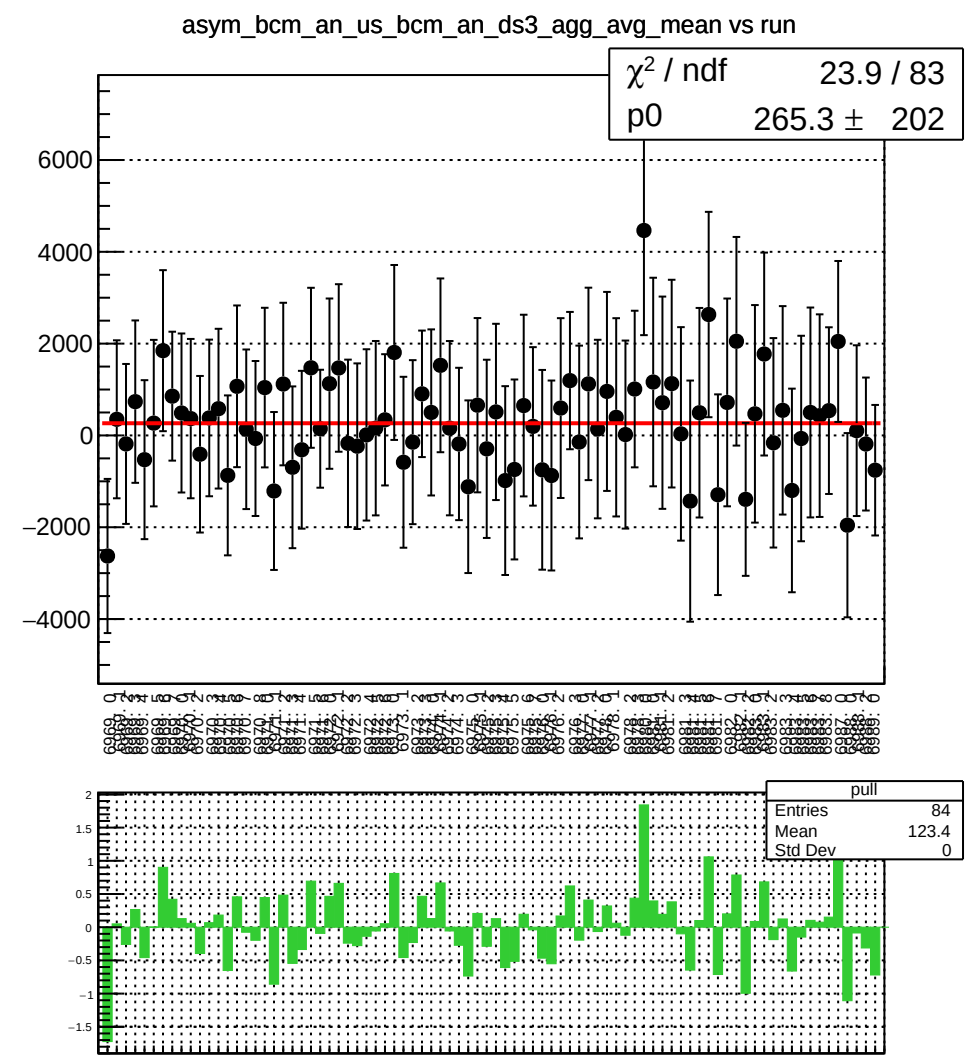

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 69.51 / 83
p0 −25.81± 23.28
pull
Entries 84
Mean 83.12
Std Dev 0
pull1D
Entries 84
Mean 0.01614
Std Dev 0.9095

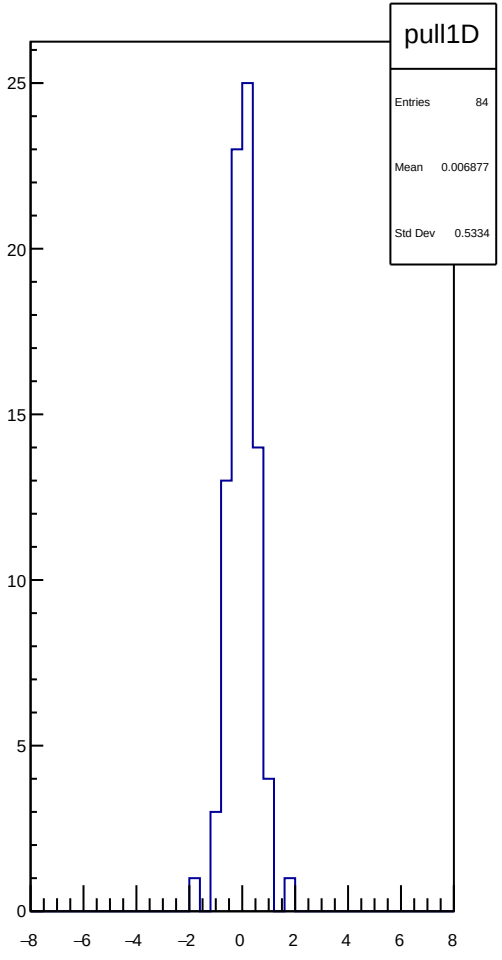

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 367.1 / 83
p0 21.3 ± 0.01646
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4

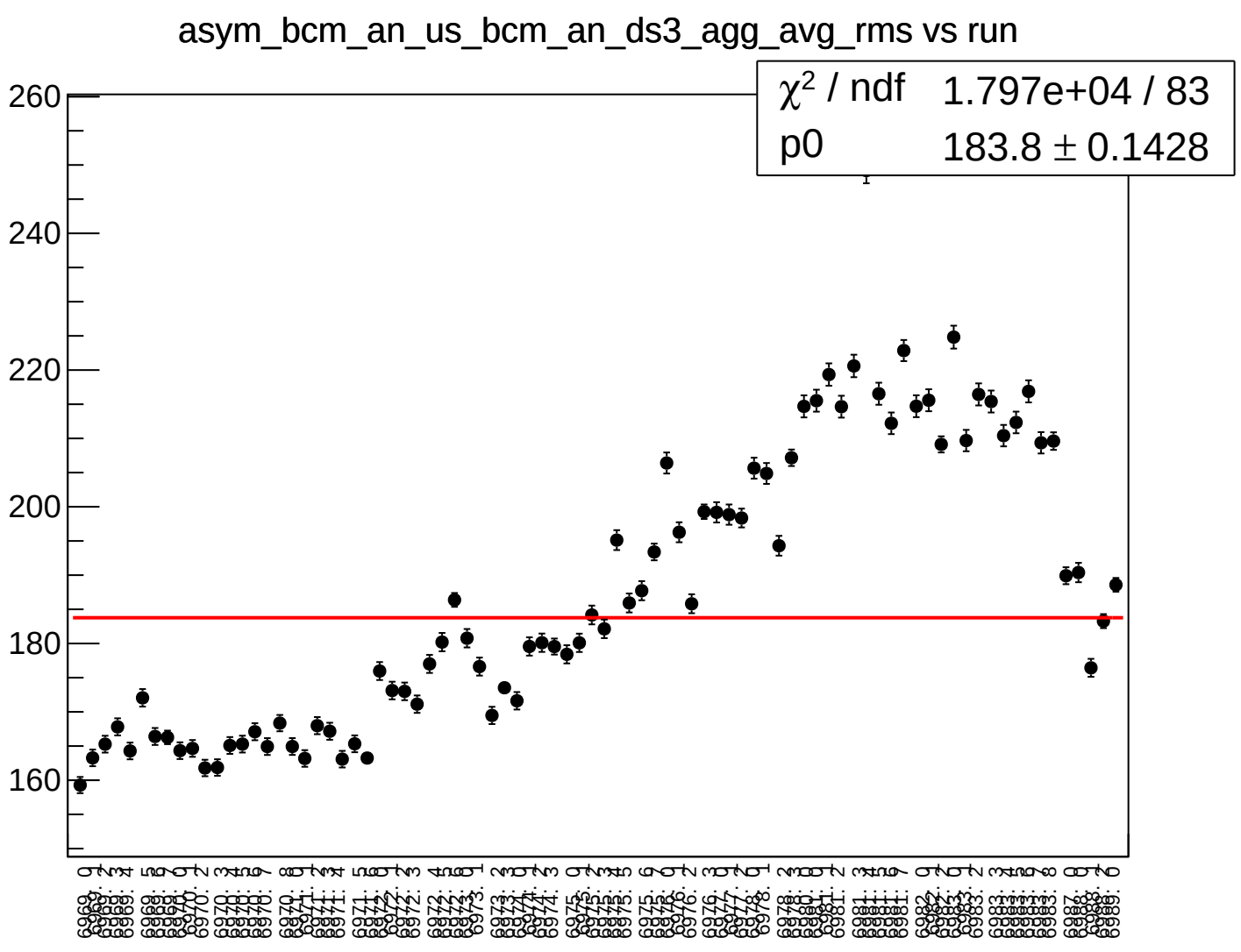

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 84.28 / 83
p0 15.06 ± 13.65
pull
Entries 84
Mean −92
Std Dev 0

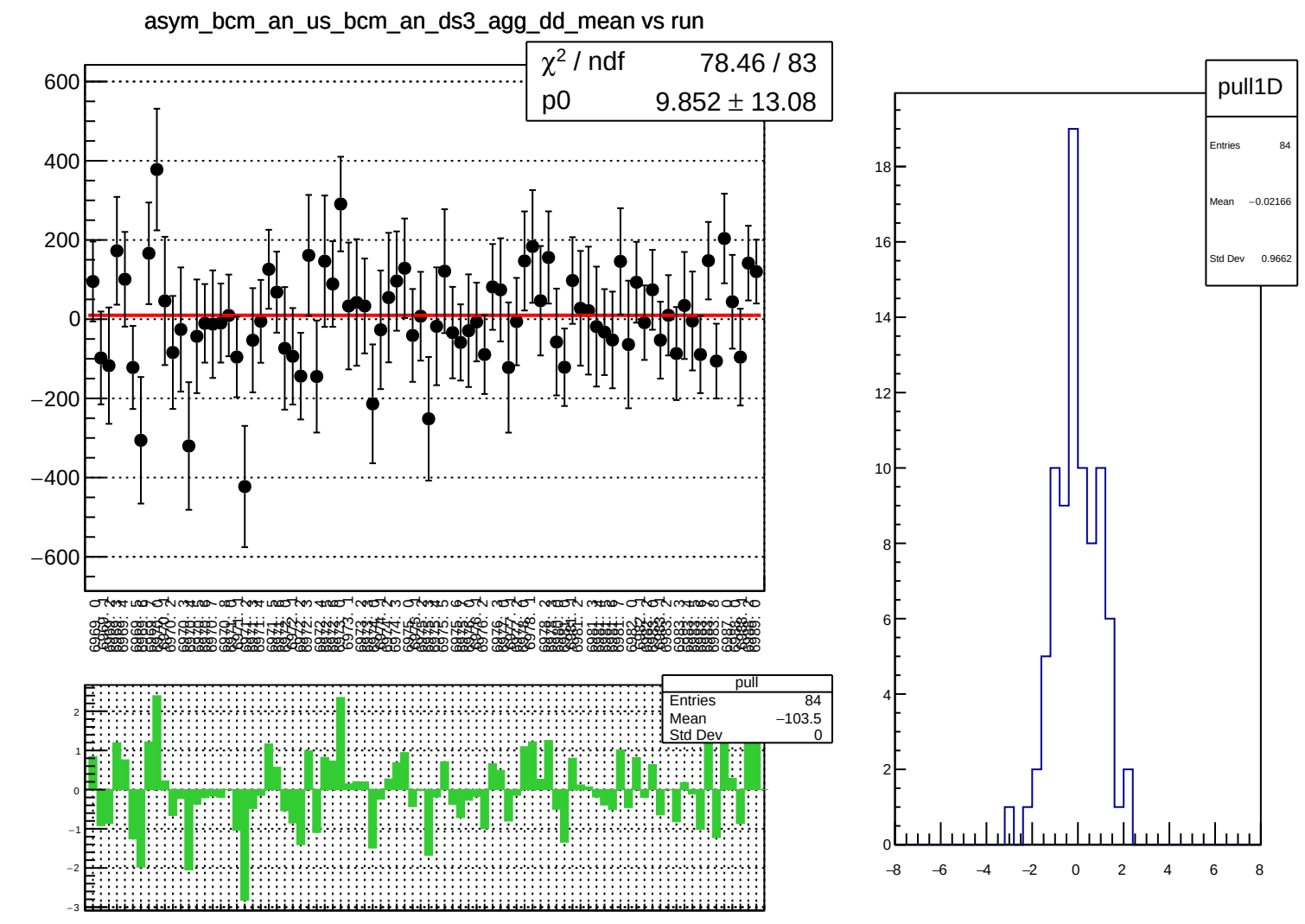

pull1D
Entries 84
Mean −0.02546
Std Dev 1.001

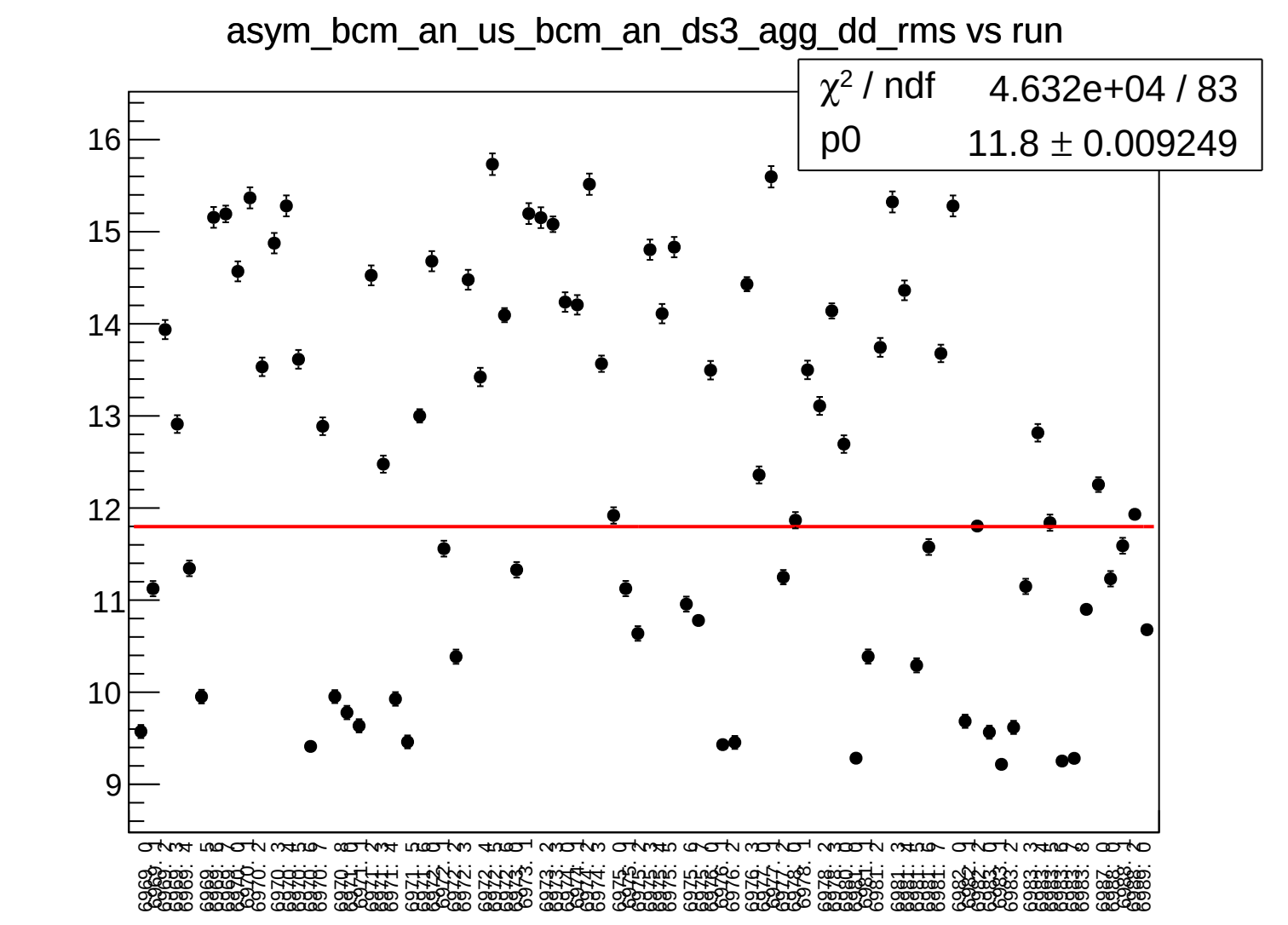

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.962e+04 / 83
p0 12.34 ± 0.009653
16
15
14
13
12
11
10

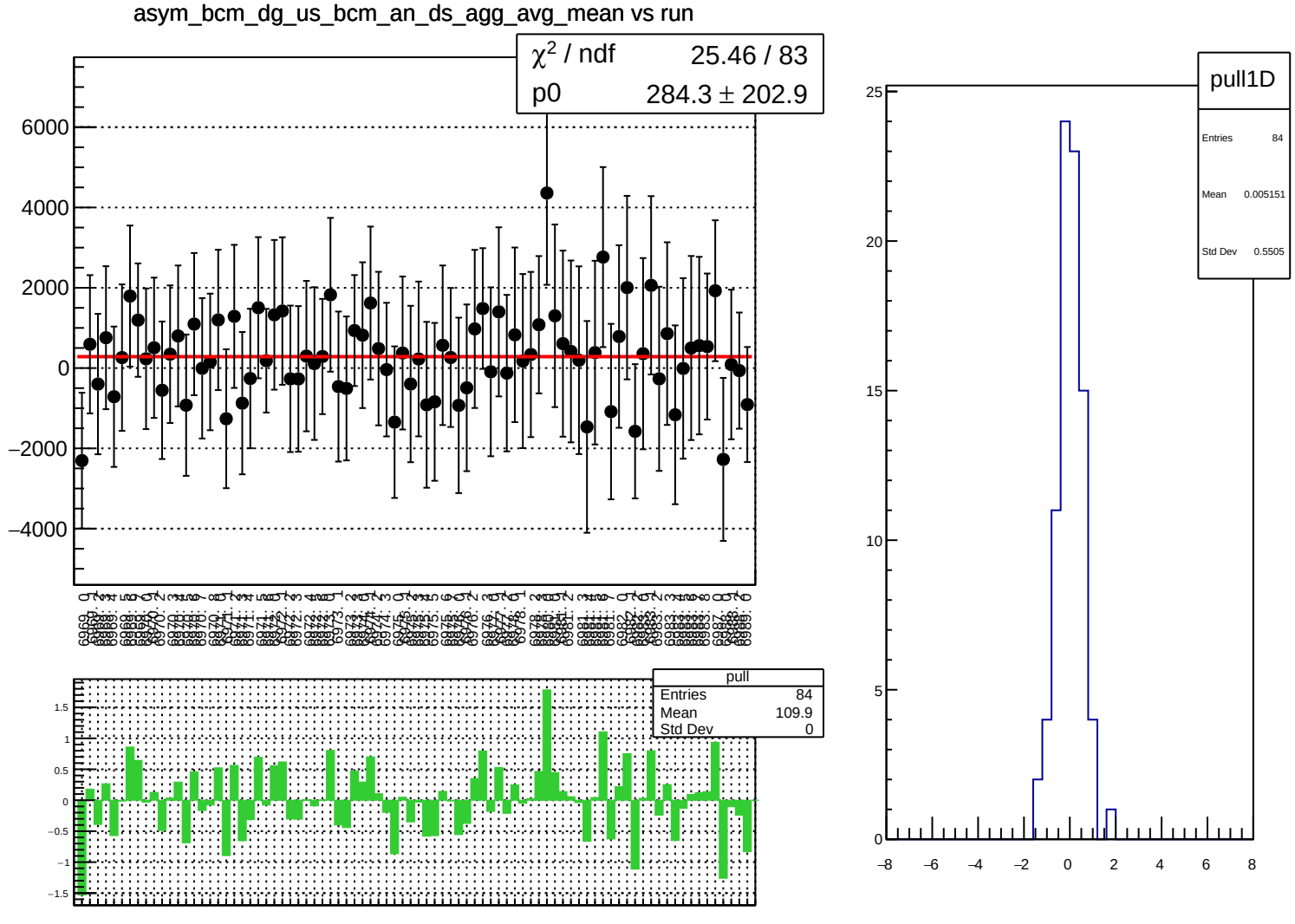

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 23.9 / 83
p0 265.3 ± 202
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 123.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

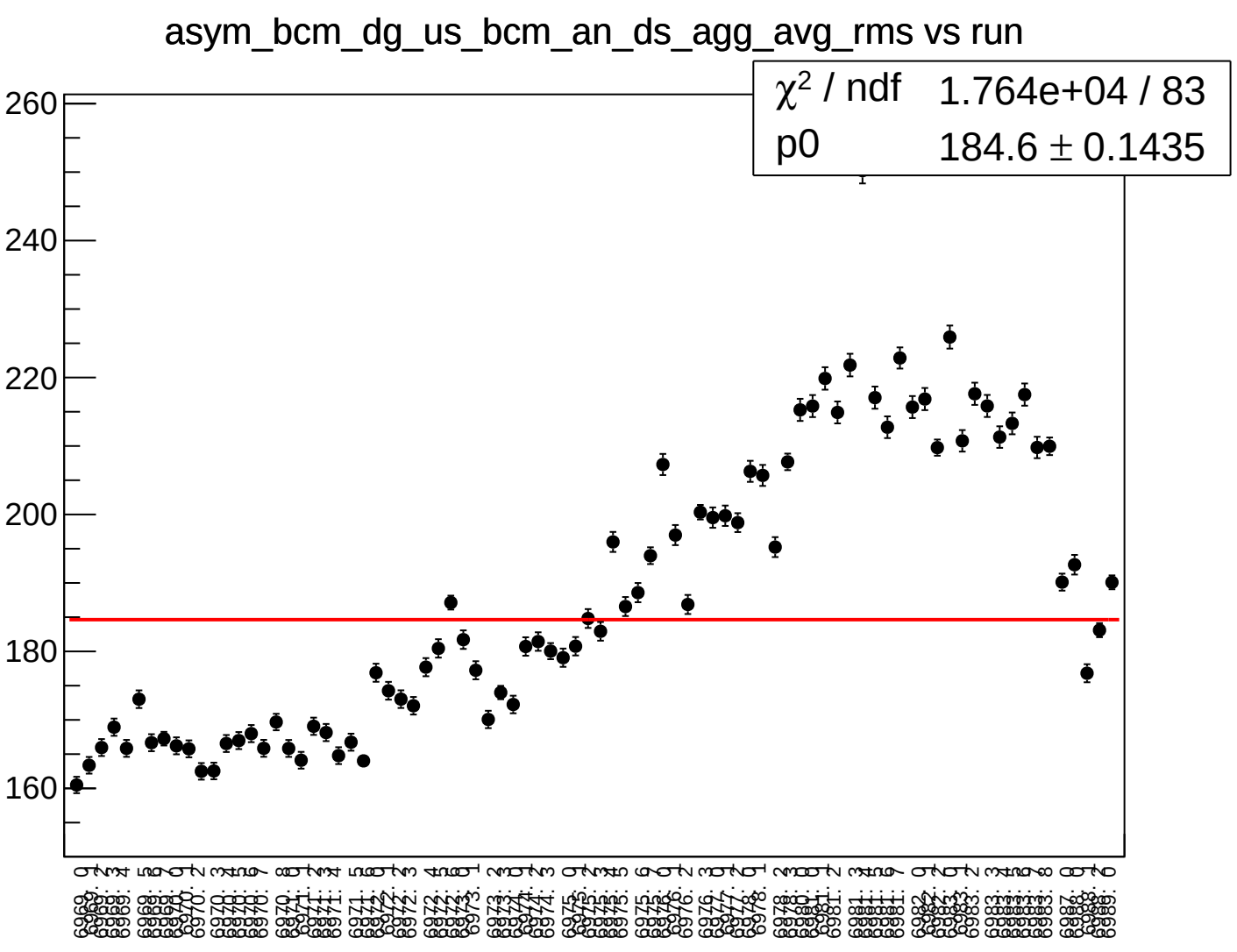

pull1D
Entries 84
Mean 0.006877
Std Dev 0.5334
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

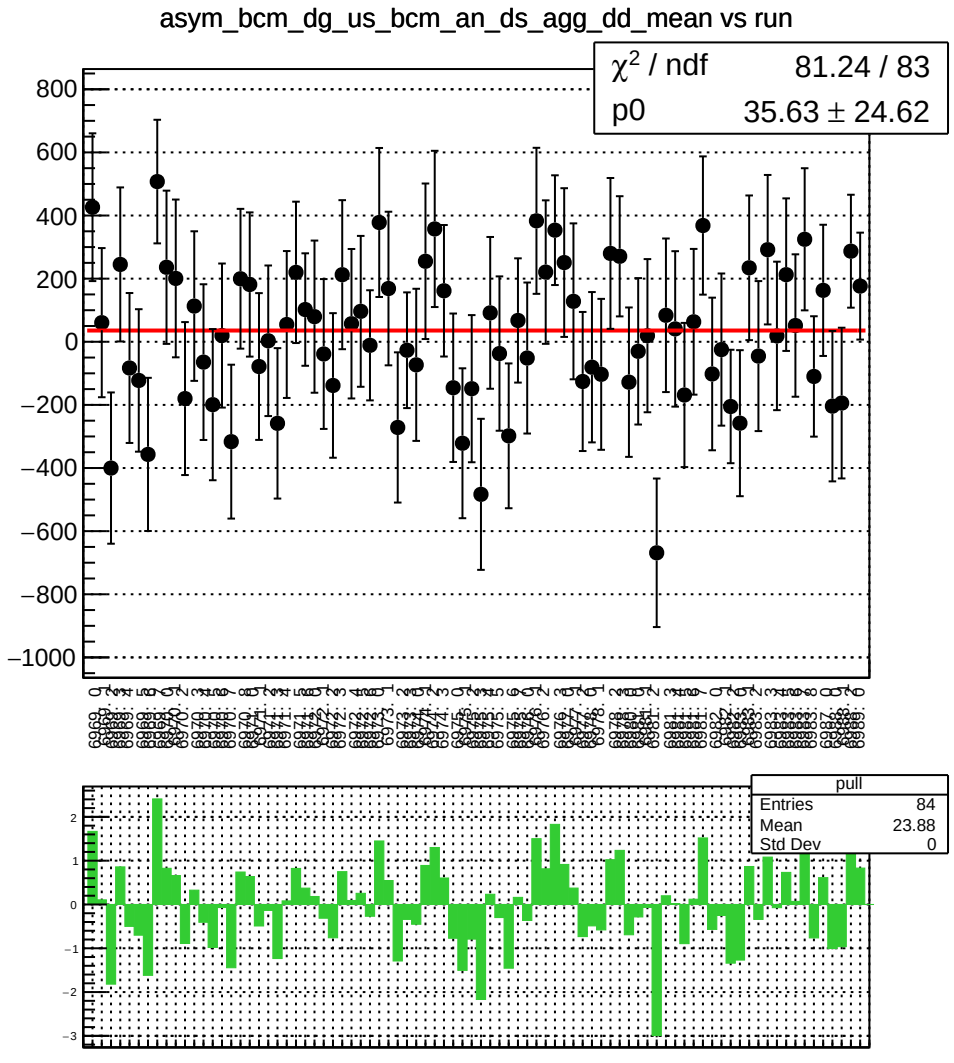

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.797e+04 / 83
p0 183.8 ± 0.1428
260
240
220
200
180
160

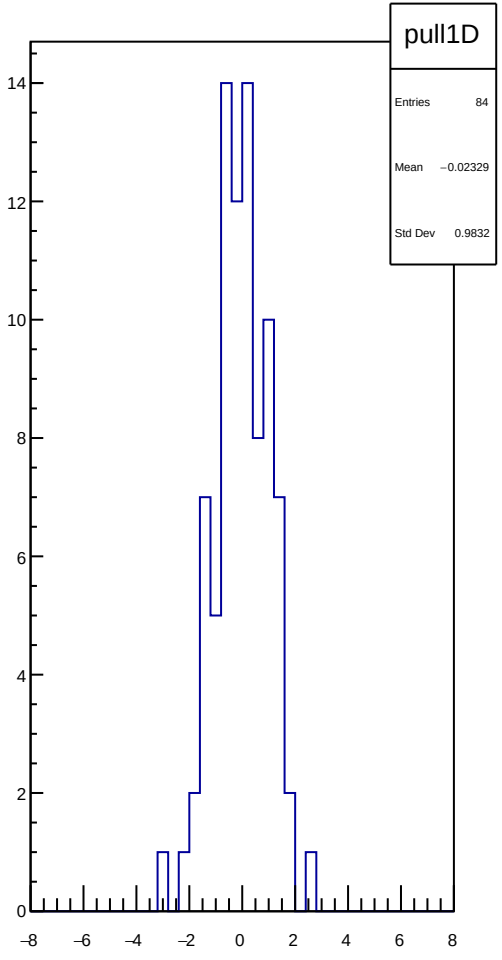

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 78.46 / 83
p0 9.852 ± 13.08
pull
Entries 84
Mean −103.5
Std Dev 0
pull1D
Entries 84
Mean −0.02166
Std Dev 0.9662

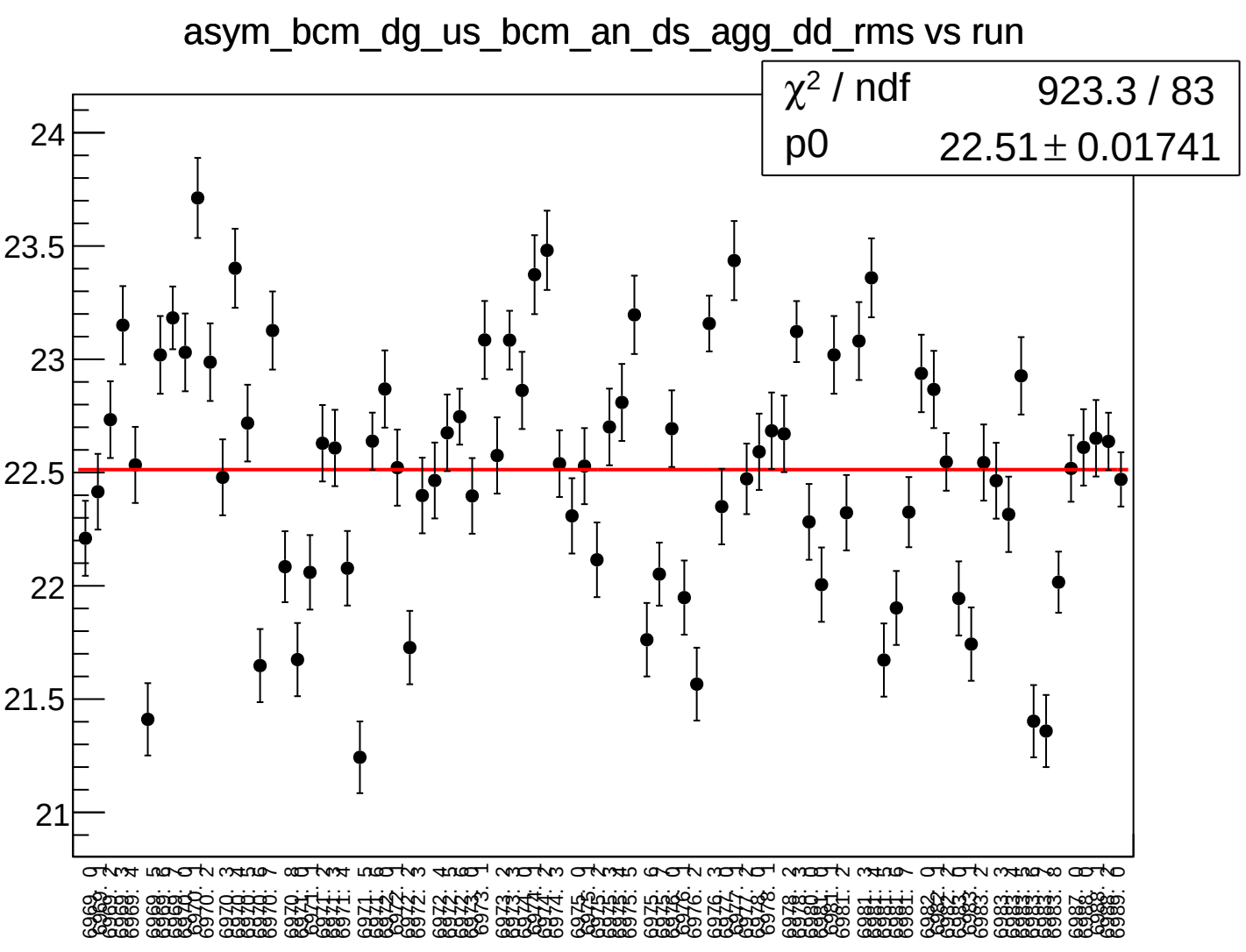

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 4.632e+04 / 83
p0 11.8 ± 0.009249
16
15
14
13
12
11
10
9

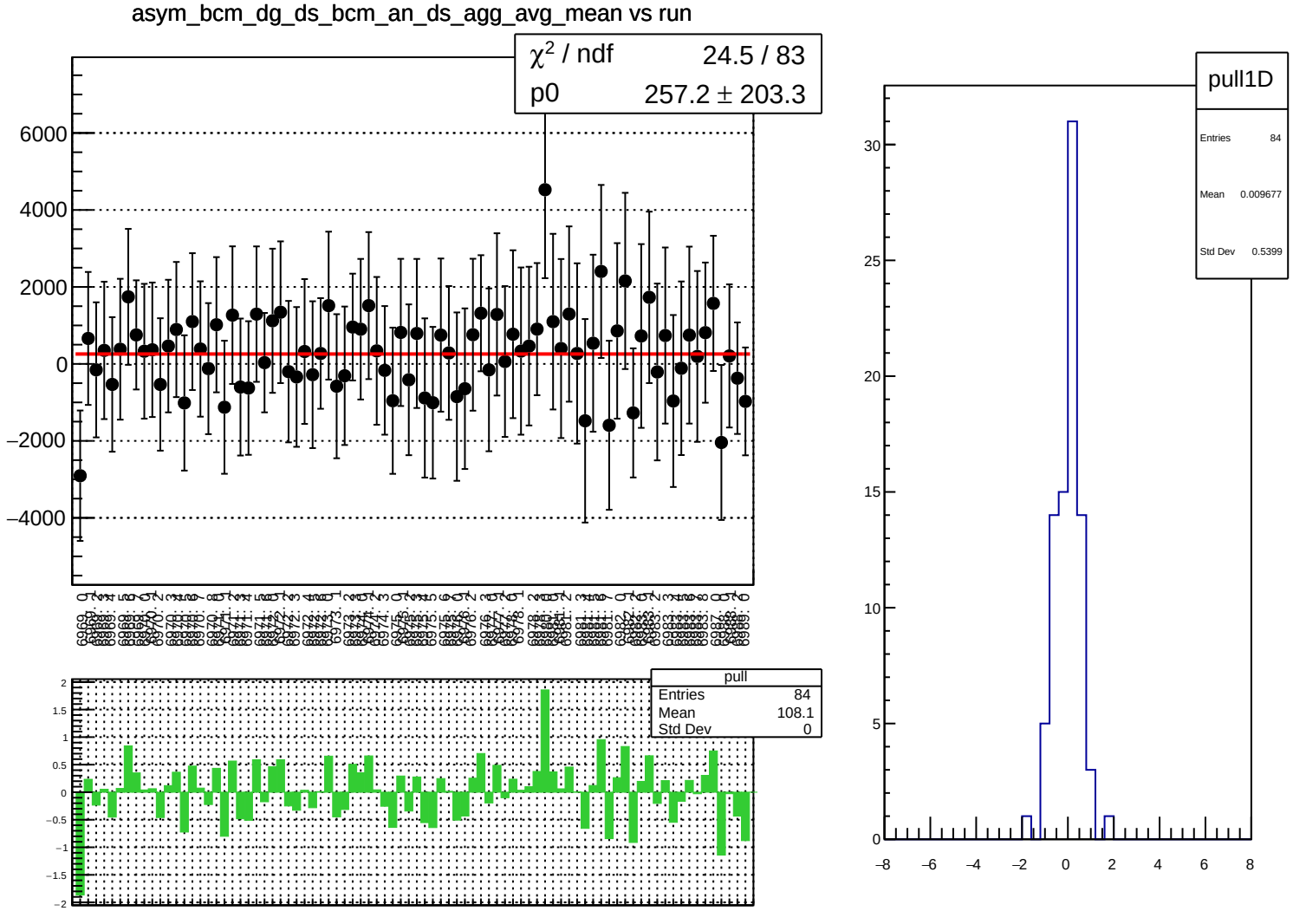

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 25.46 / 83
p0 284.3 ± 202.9
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 109.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.005151
Std Dev 0.5505
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

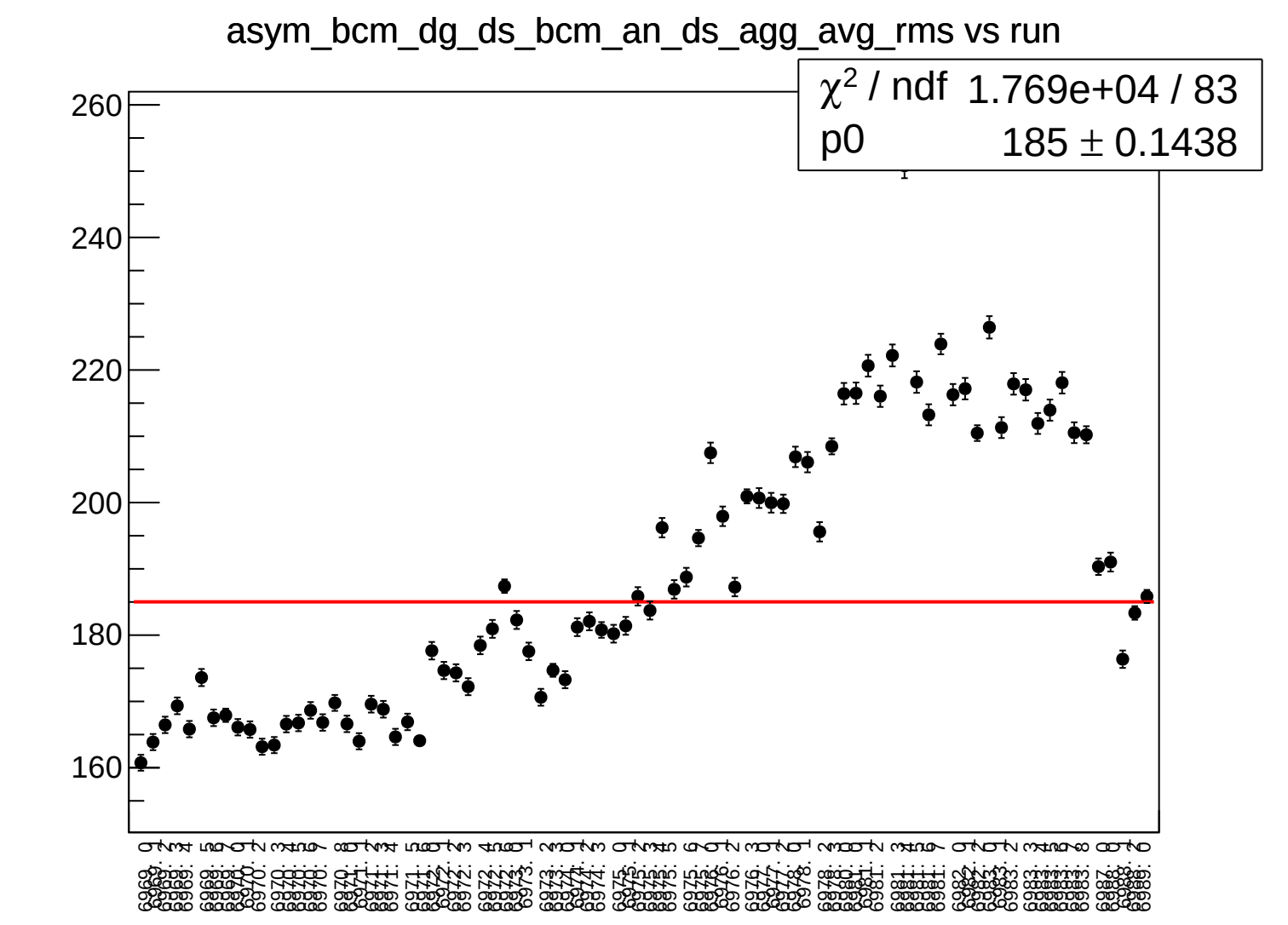

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.764e+04 / 83
p0 184.6 ± 0.1435
260
240
220
200
180
160

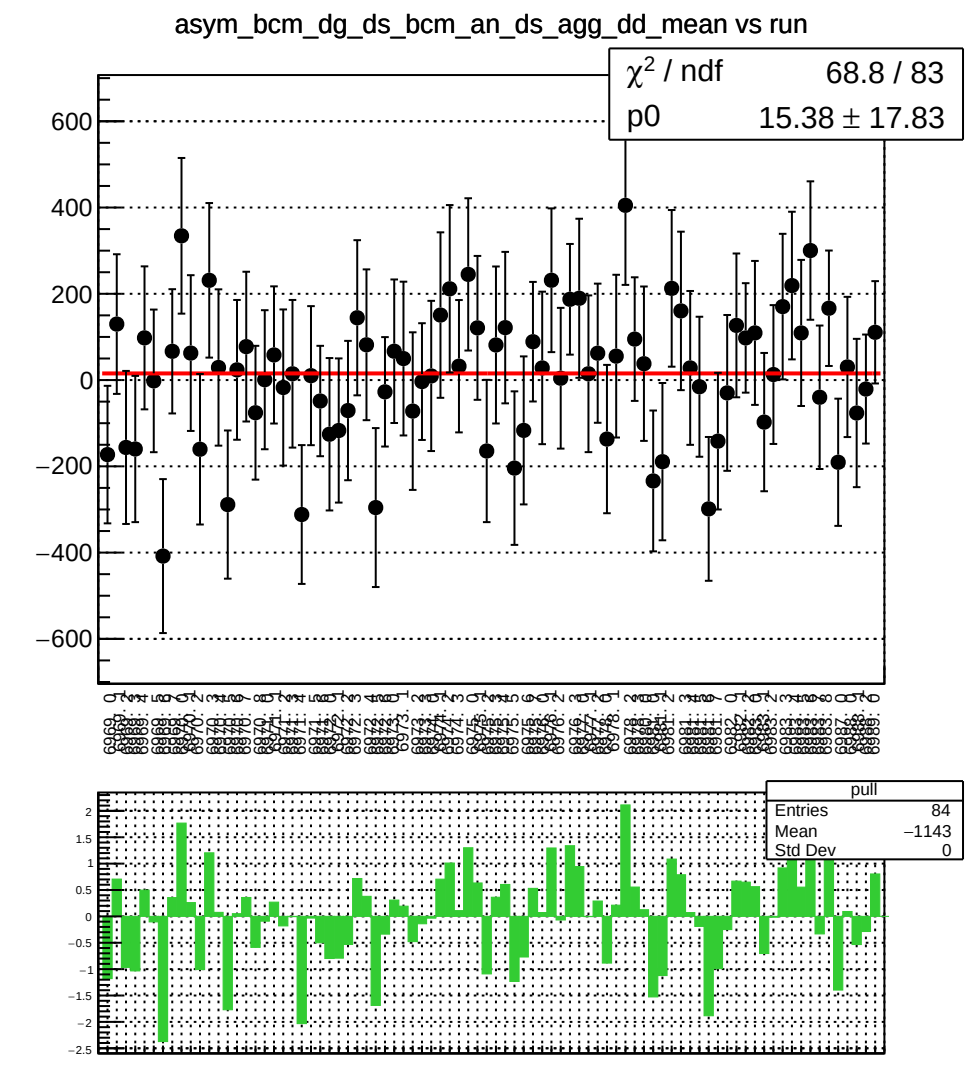

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 81.24 / 83
p0 35.63 ± 24.62
pull
Entries 84
Mean 23.88
Std Dev 0

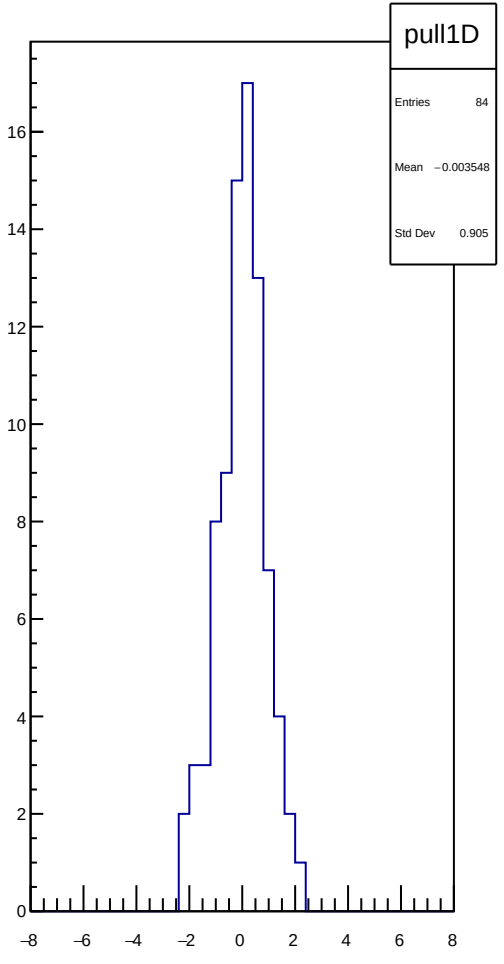

pull1D
Entries 84
Mean −0.02329
Std Dev 0.9832

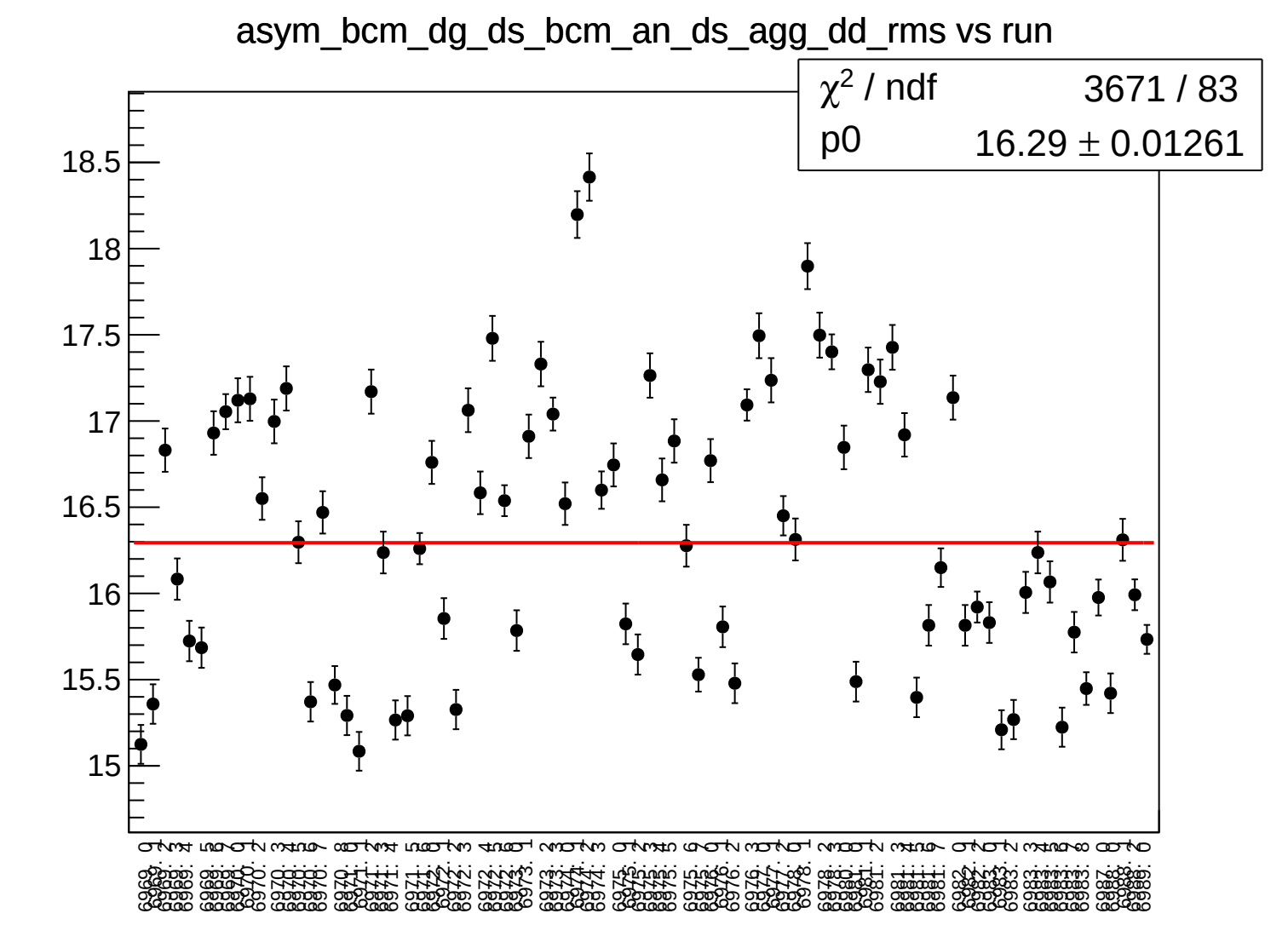

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 923.3 / 83
p0 22.51 ± 0.01741
24
23.5
23
22.5
22
21.5
21

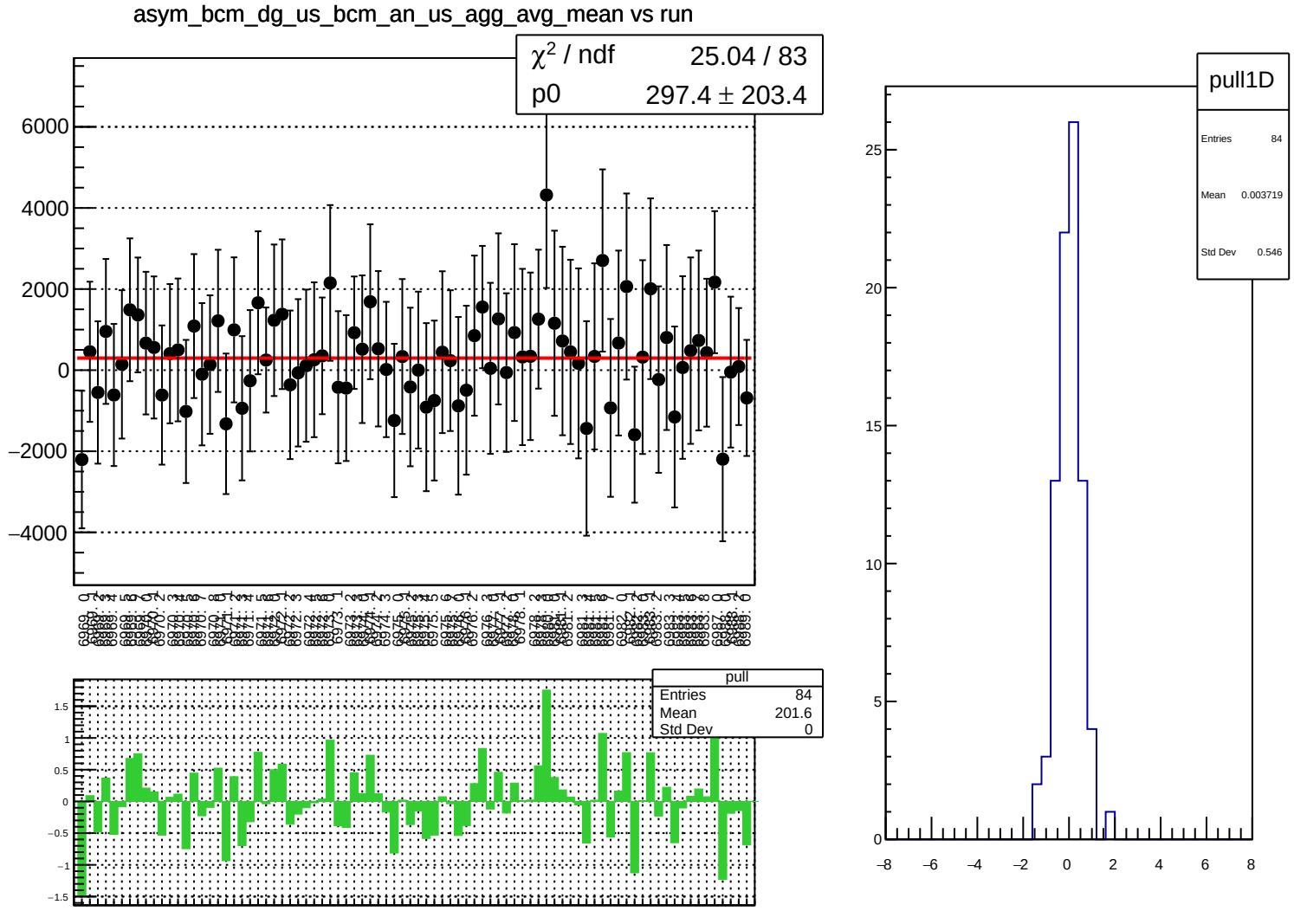

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.5 / 83
p0 257.2 ± 203.3
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 108.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.009677
Std Dev 0.5399
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

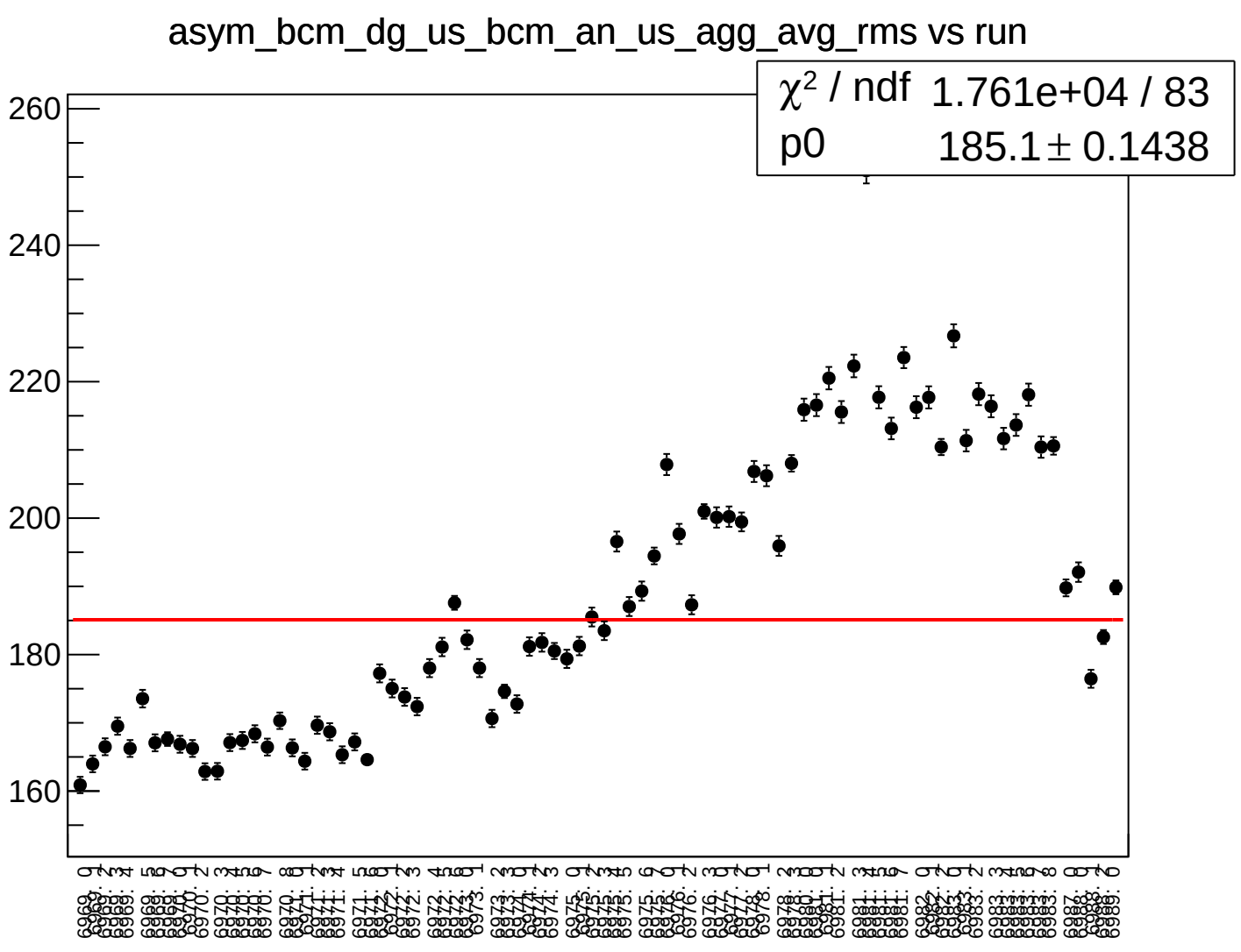

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.769e+04 / 83
p0 185 ± 0.1438
260
240
220
200
180
160

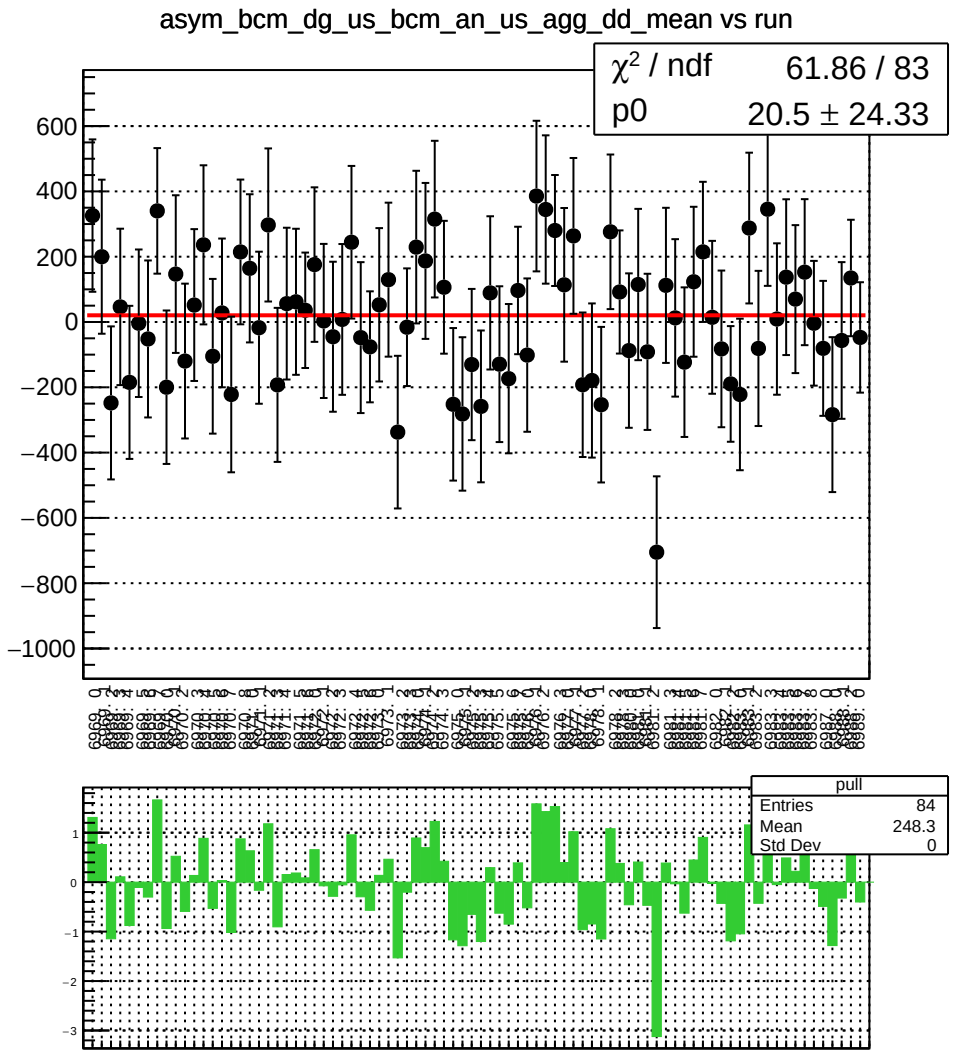

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 68.8 / 83
p0 15.38 ± 17.83
pull
Entries 84
Mean −1143
Std Dev 0

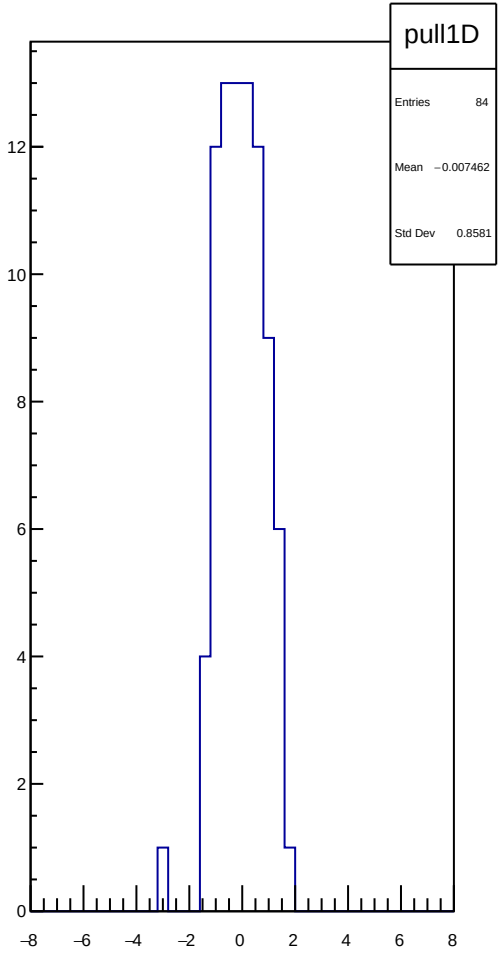

pull1D
Entries 84
Mean −0.003548
Std Dev 0.905

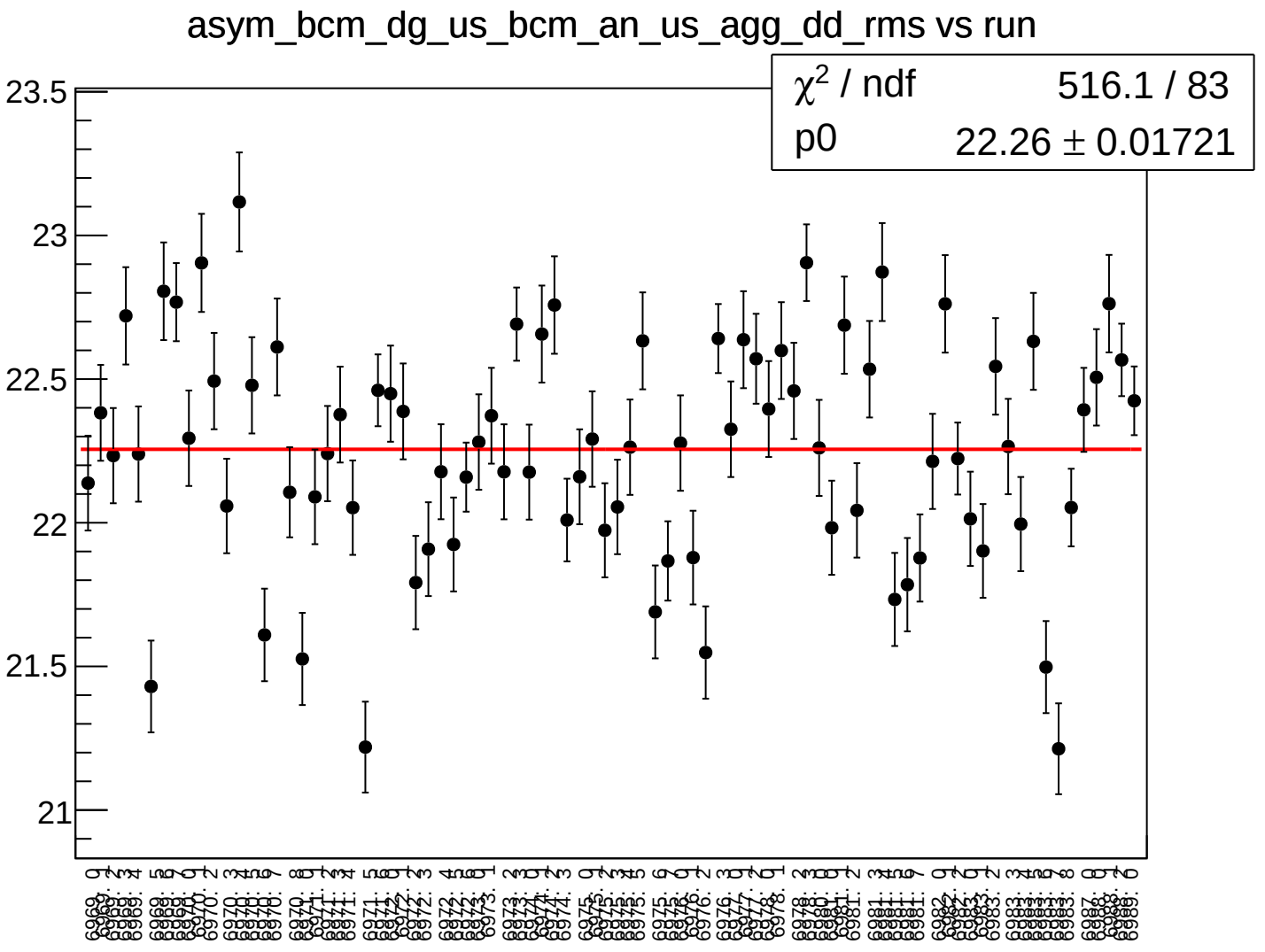

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3671 / 83
p0 16.29 ± 0.01261
18.5
18
17.5
17
16.5
16
15.5
15

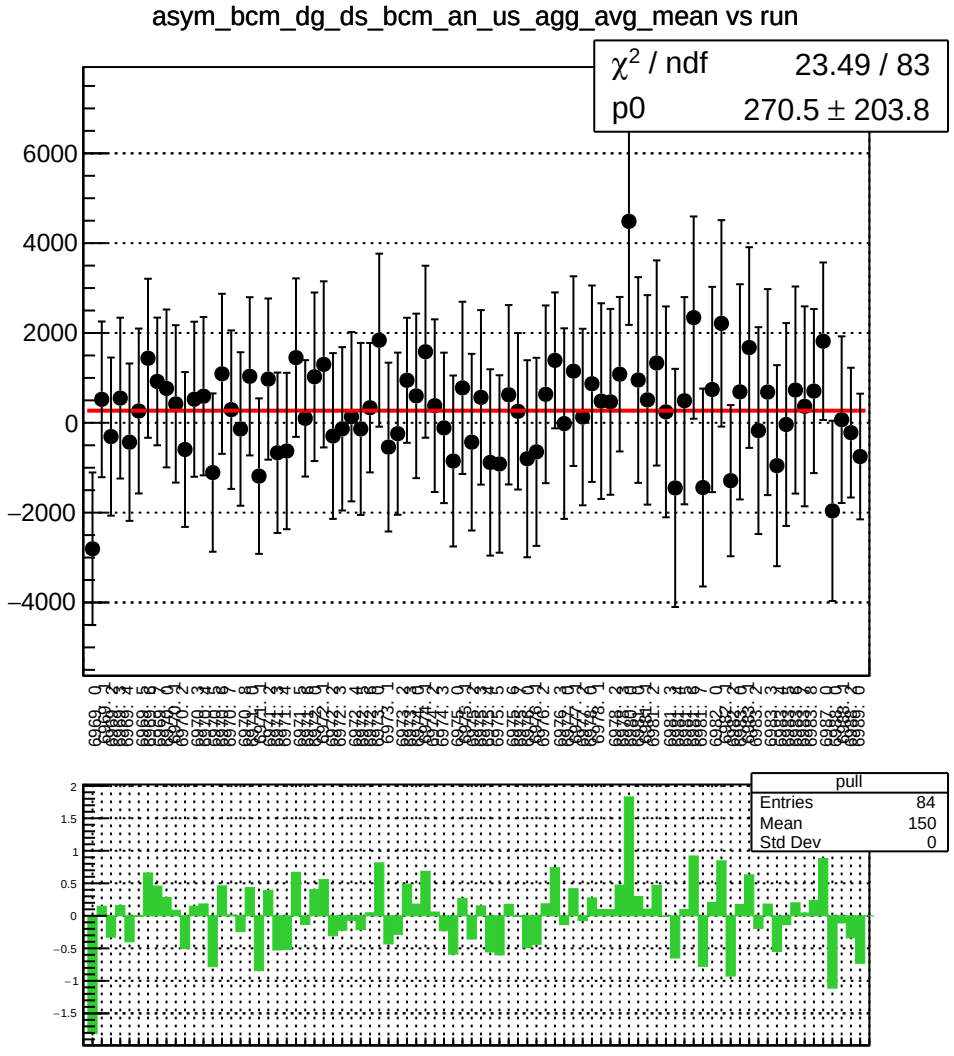

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 25.04 / 83
p0 297.4 ± 203.4
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 201.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.003719
Std Dev 0.546
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

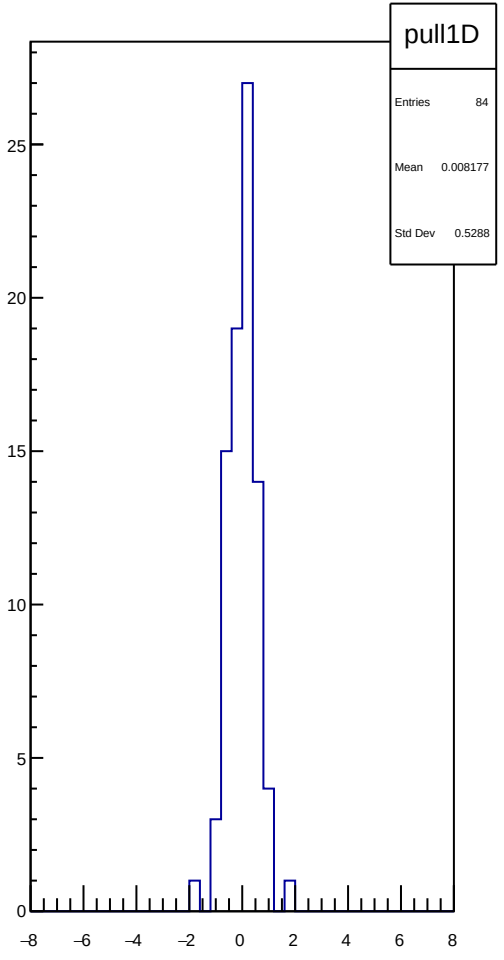

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.761e+04 / 83
p0 185.1 ± 0.1438
260
240
220
200
180
160

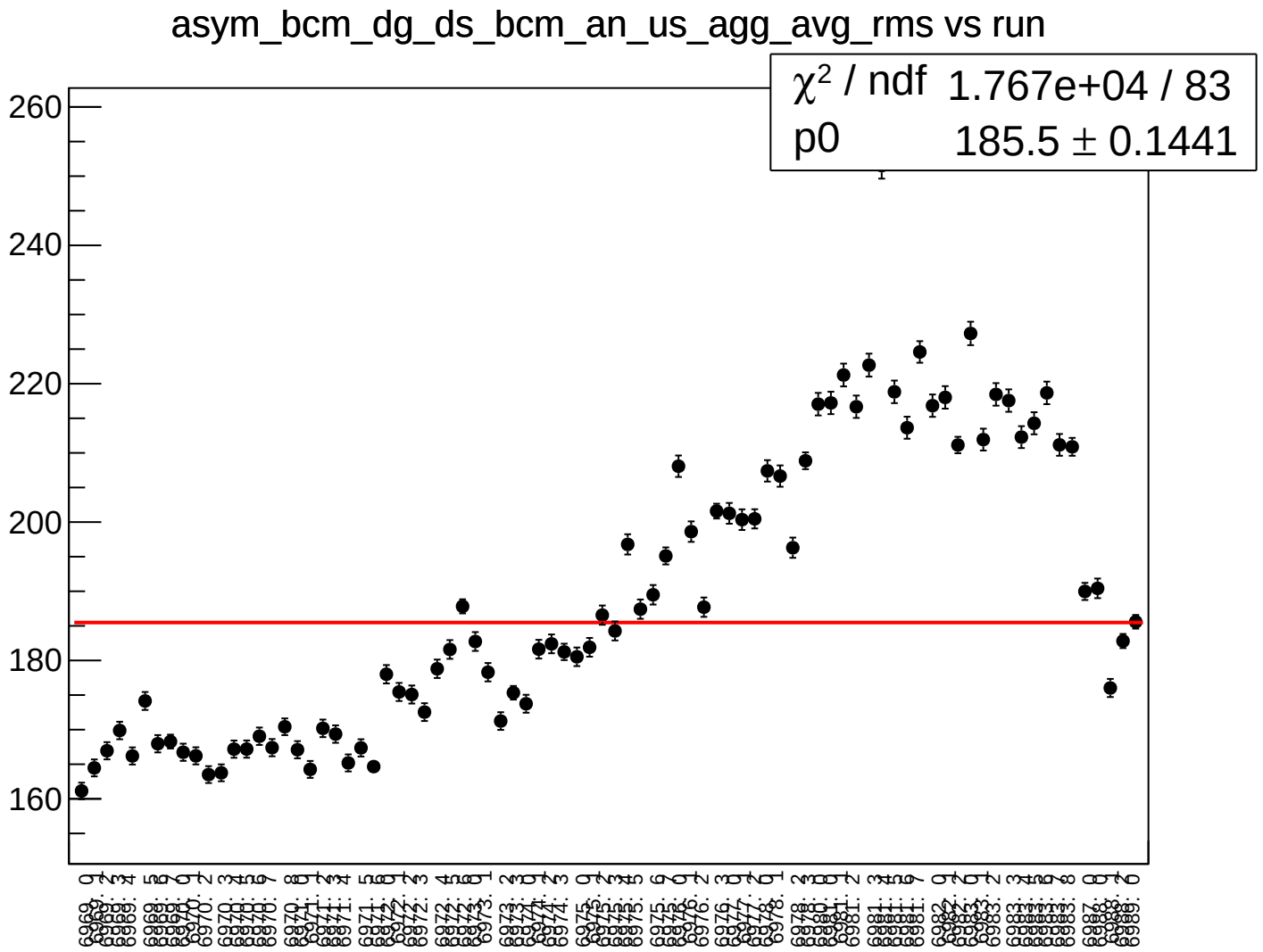

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 61.86 / 83
p0 20.5 ± 24.33
pull
Entries 84
Mean 248.3
Std Dev 0

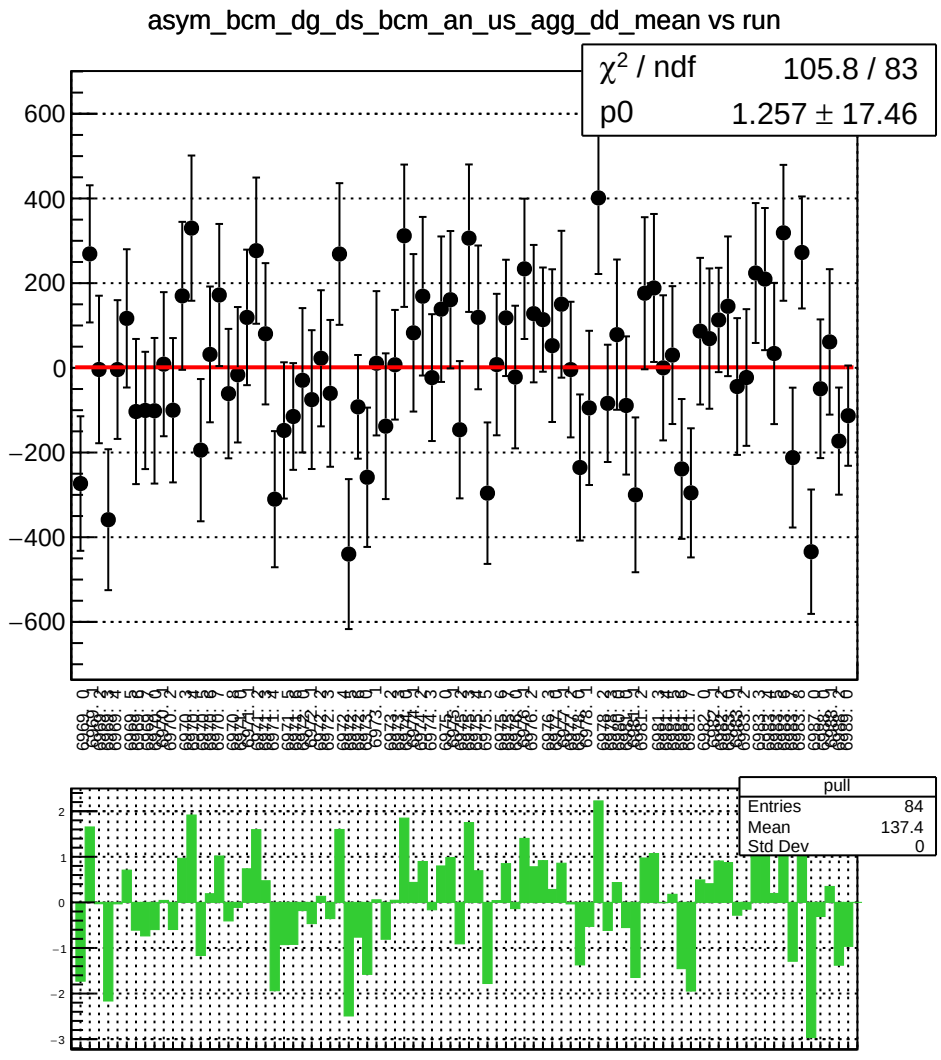

pull1D
Entries 84
Mean −0.007462
Std Dev 0.8581

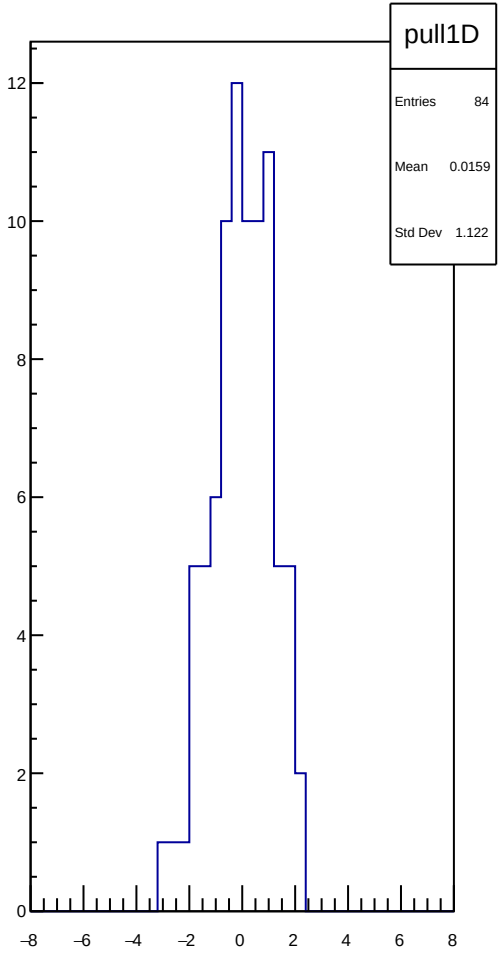

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 516.1 / 83
p0 22.26 ± 0.01721
23.5
23
22.5
22
21.5
21

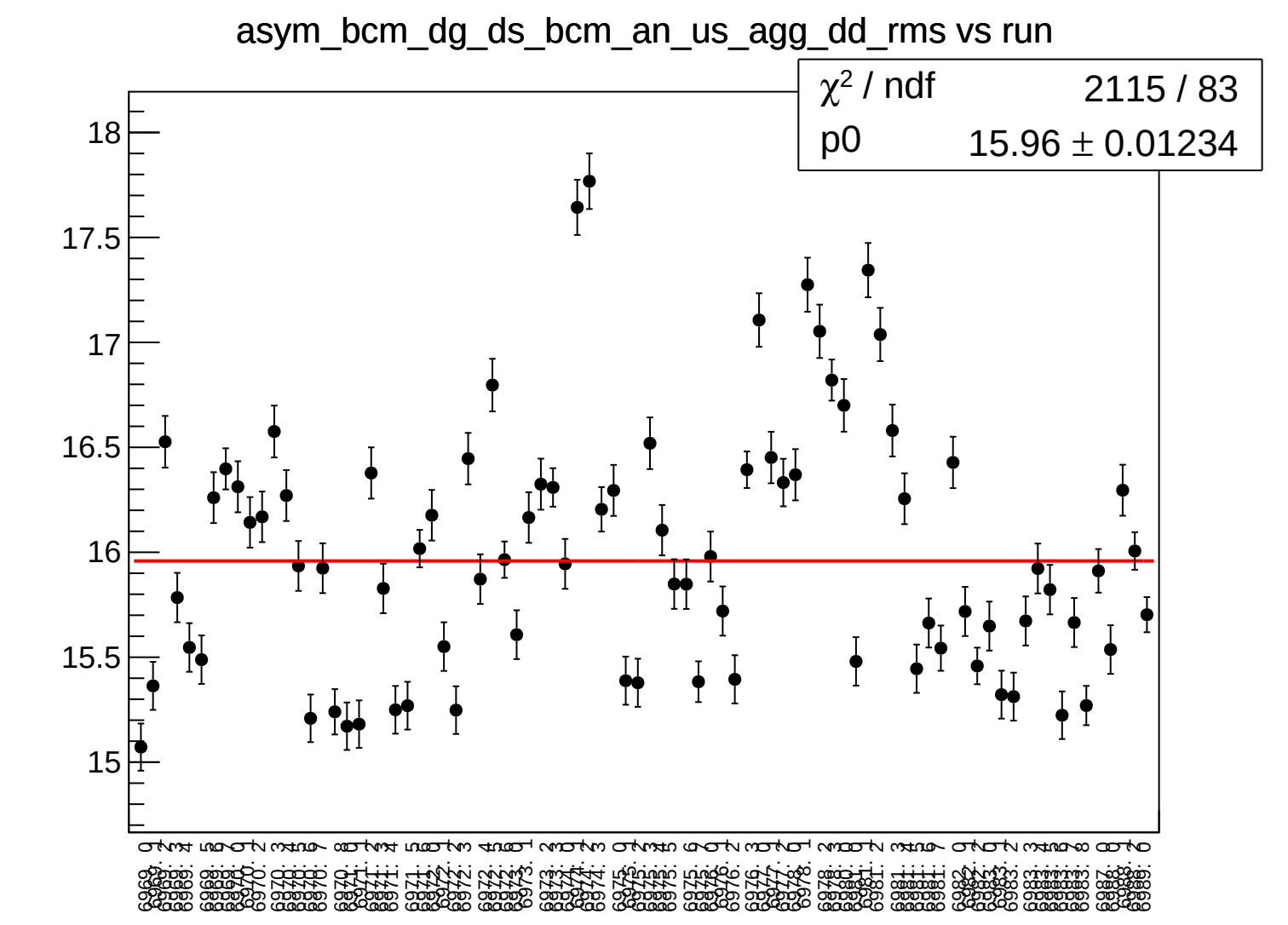

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.49 / 83
p0 270.5 ± 203.8
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 150
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

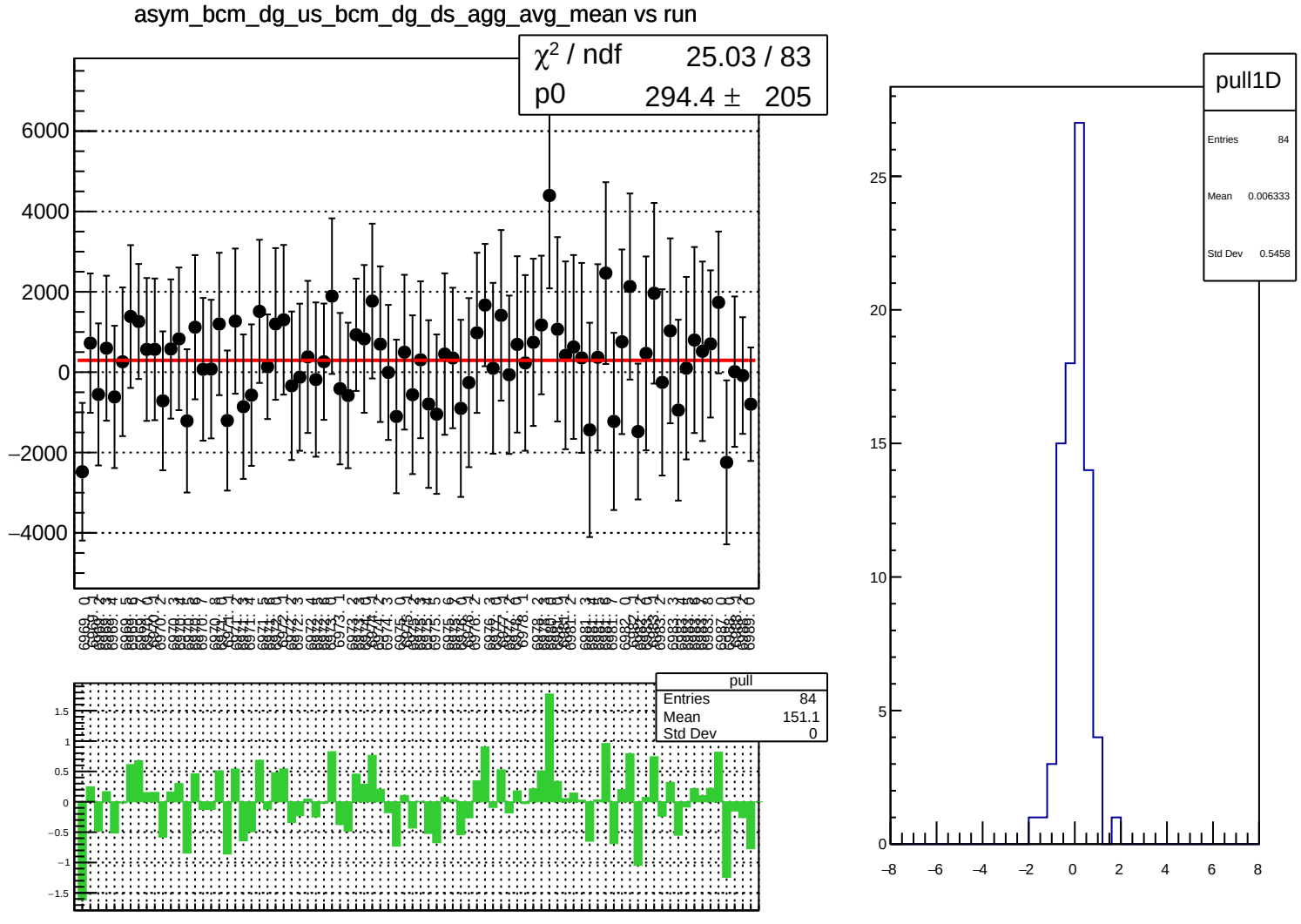

pull1D
Entries 84
Mean 0.008177
Std Dev 0.5288
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

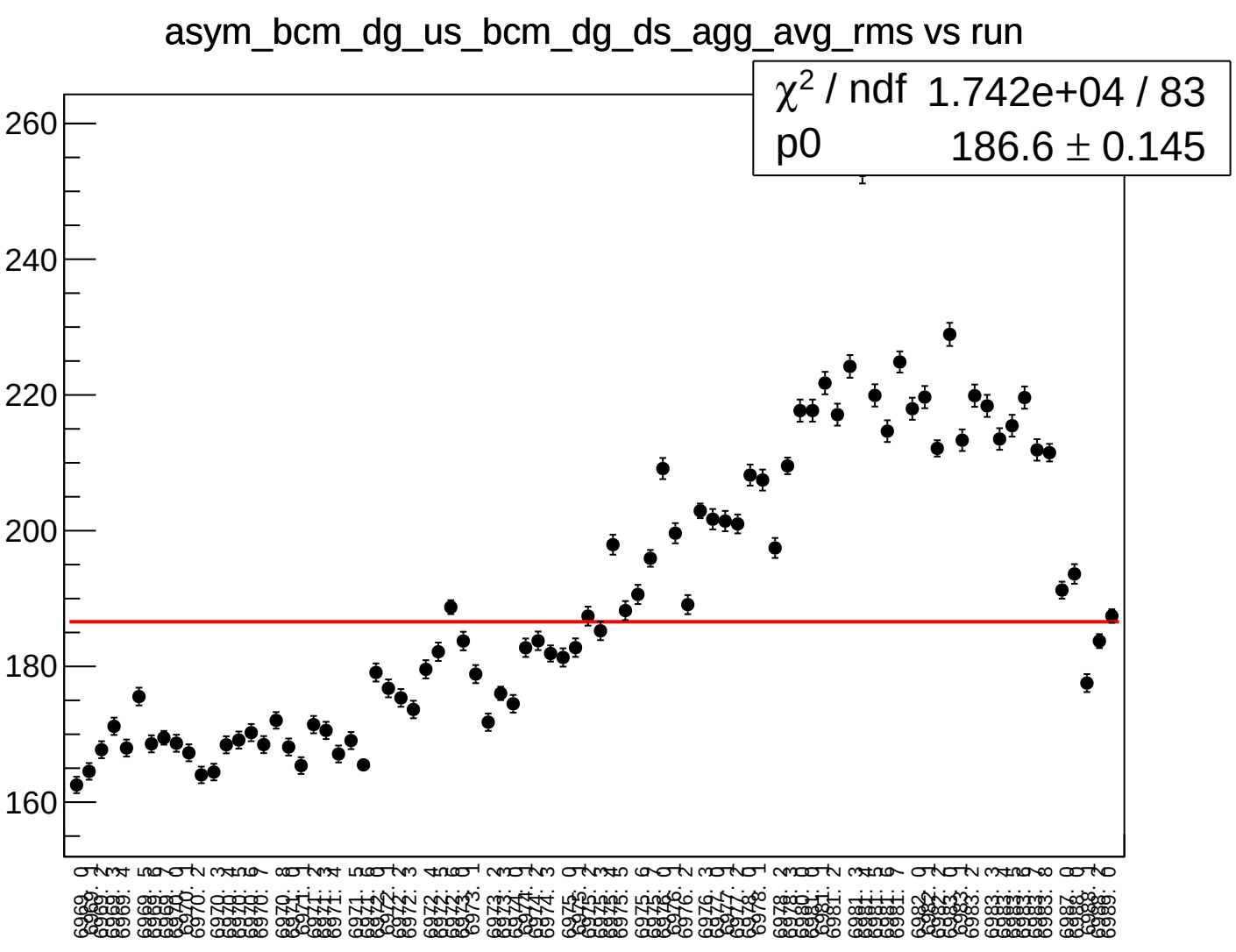

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.767e+04 / 83
p0 185.5 ± 0.1441
260
240
220
200
180
160

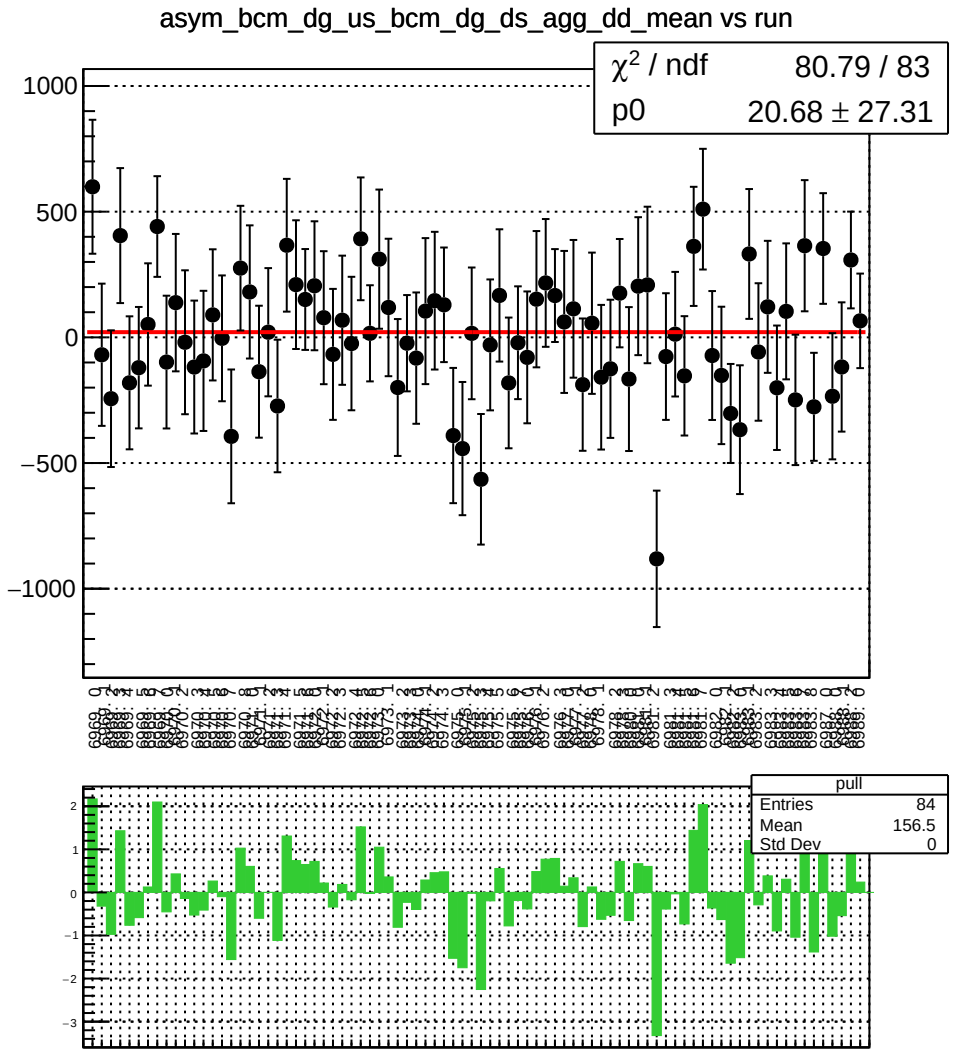

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 105.8 / 83
p0 1.257 ± 17.46
pull
Entries 84
Mean 137.4
Std Dev 0

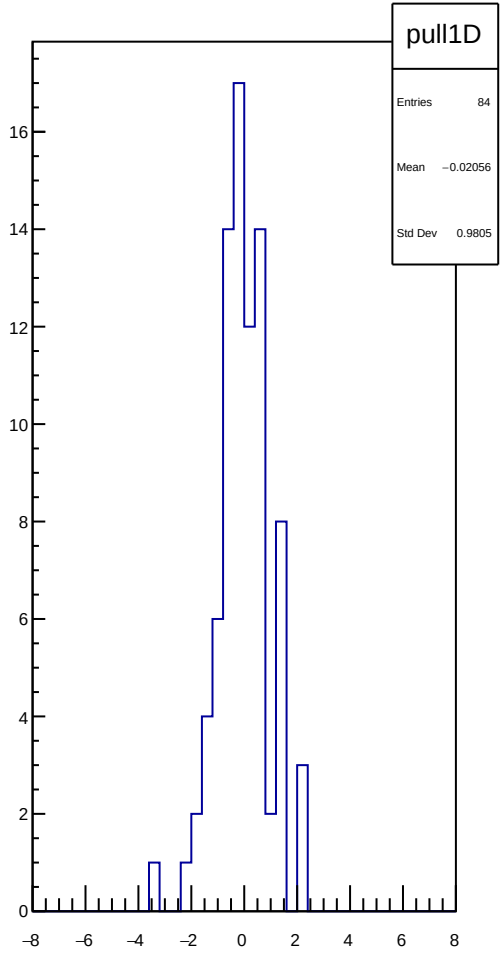

pull1D
Entries 84
Mean 0.0159
Std Dev 1.122

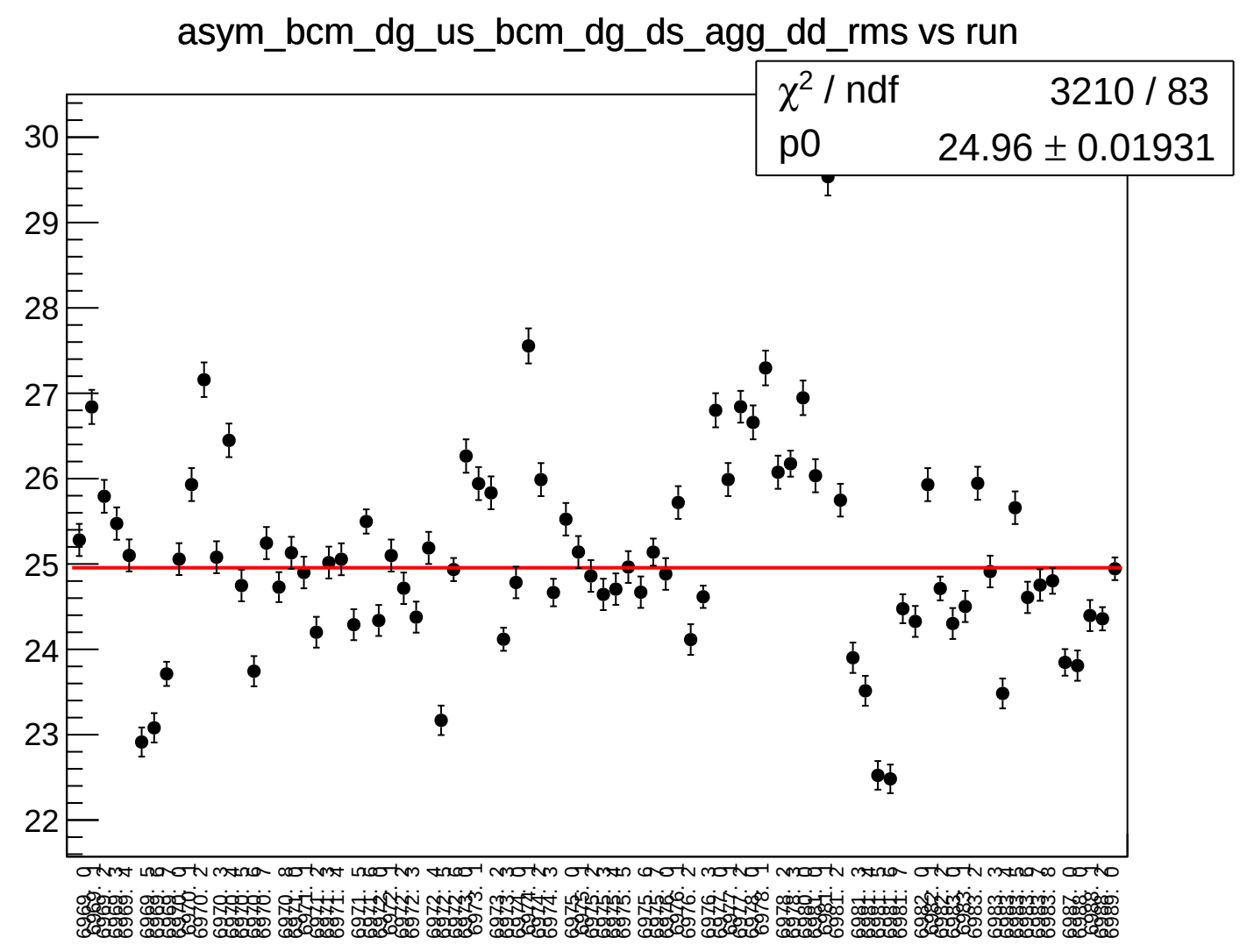

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2115 / 83
p0 15.96 ± 0.01234
18
17.5
17
16.5
16
15.5
15

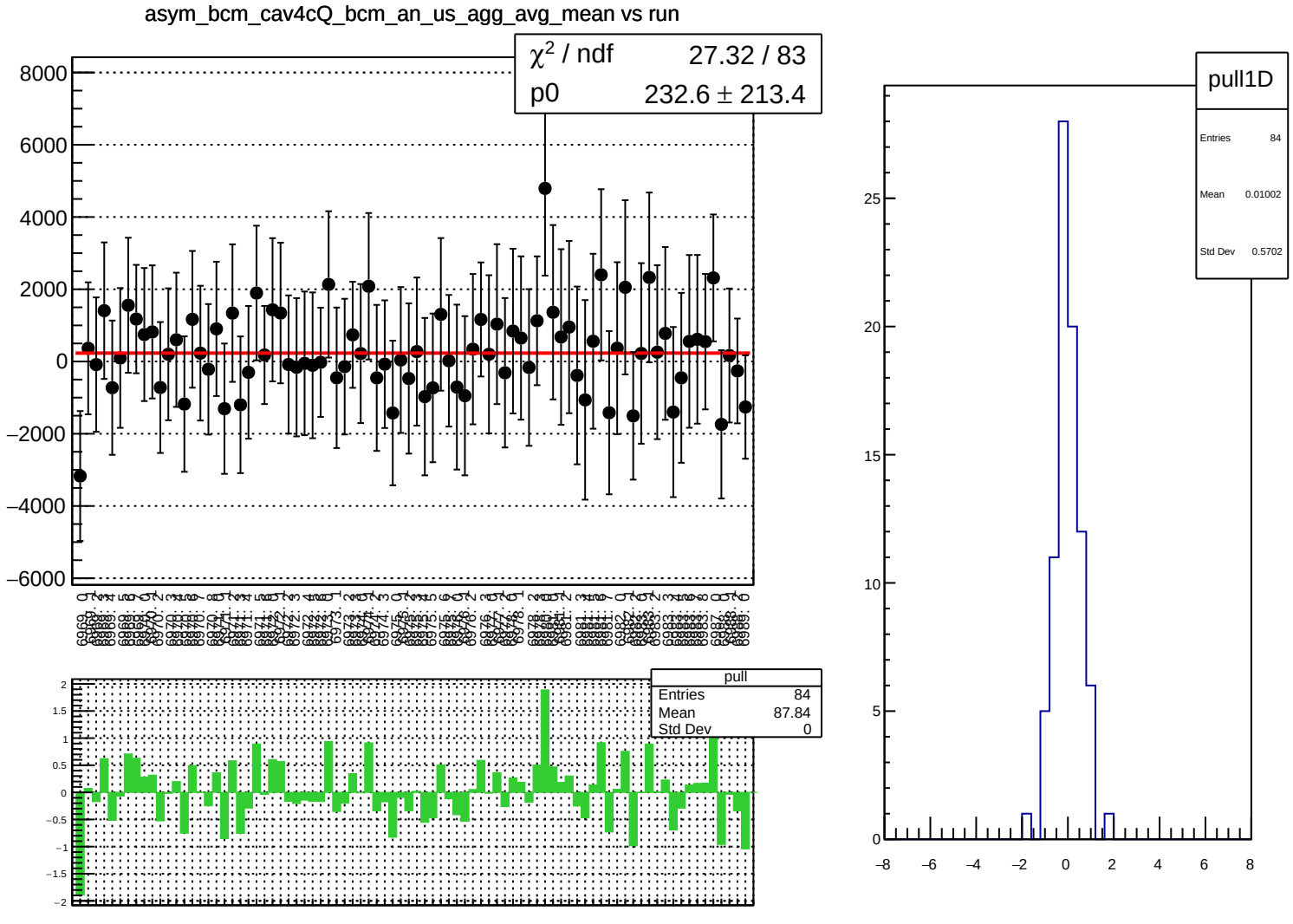

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 25.03 / 83
p0 294.4 ± 205
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 151.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.006333
Std Dev 0.5458
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

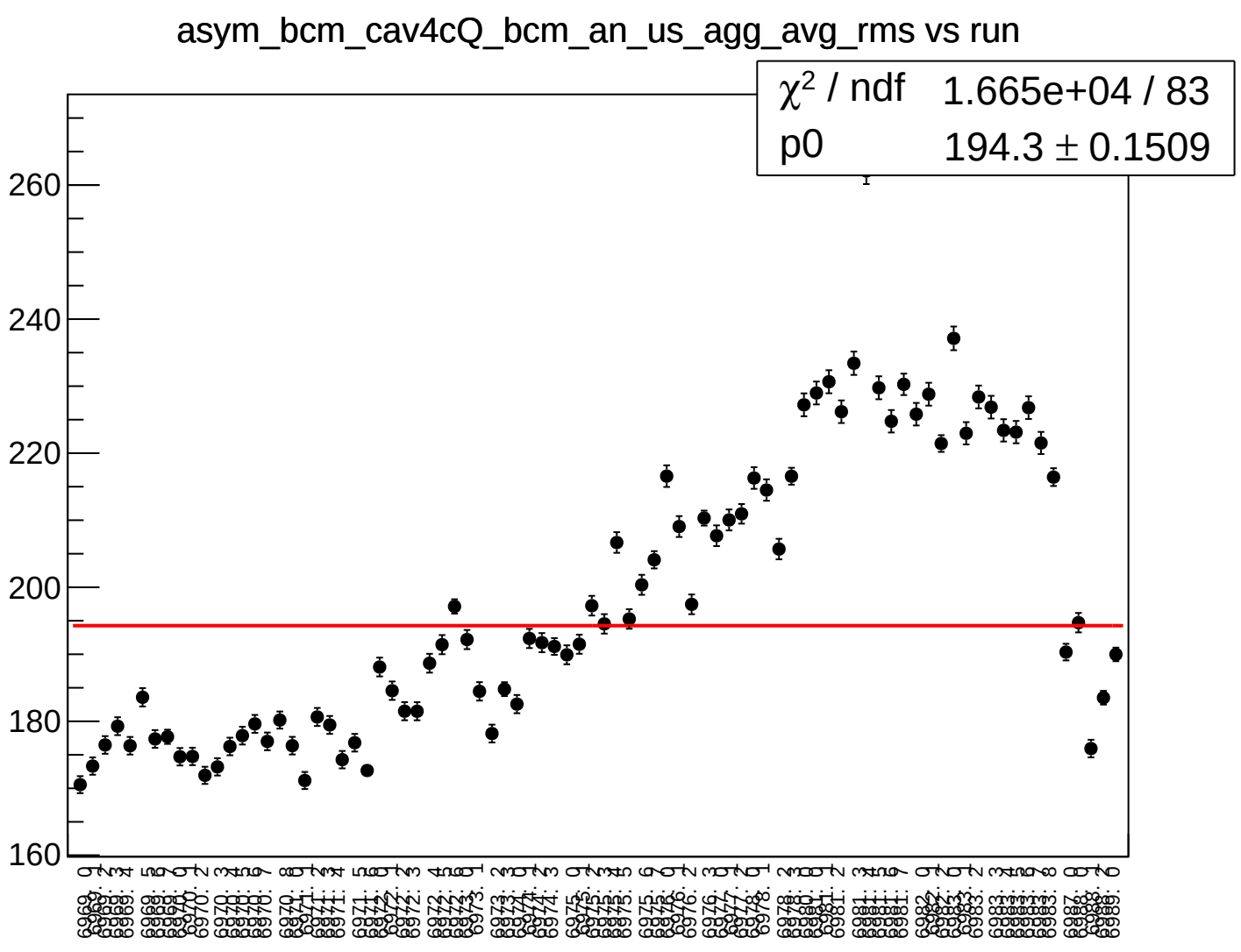

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.742e+04 / 83
p0 186.6 ± 0.145
260
240
220
200
180
160

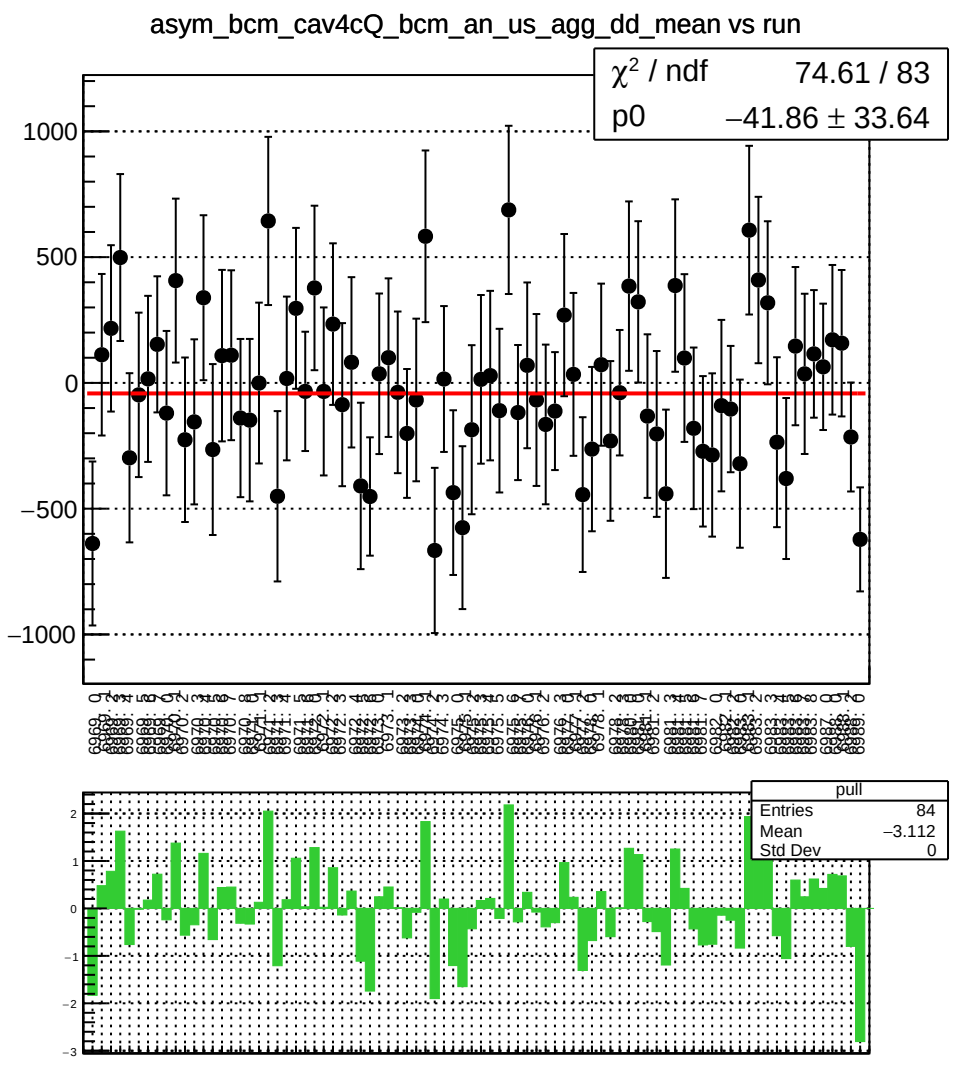

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 80.79 / 83
p0 20.68 ± 27.31
1000
500
0
−500
−1000
pull
Entries 84
Mean 156.5
Std Dev 0
2
1
0
−1
−2
−3

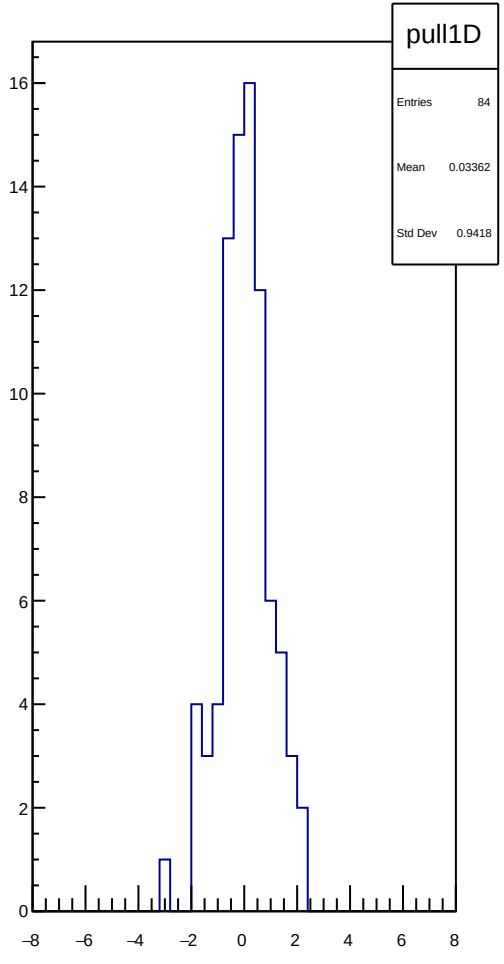

pull1D
Entries 84
Mean −0.02056
Std Dev 0.9805
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3210 / 83
p0 24.96 ± 0.01931
30
29
28
27
26
25
24
23
22


asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 27.32 / 83
p0 232.6 ± 213.4
pull
Entries 84
Mean 87.84
Std Dev 0
pull1D
Entries 84
Mean 0.01002
Std Dev 0.5702


asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.665e+04 / 83
p0 194.3 ± 0.1509
260
240
220
200
180
160


asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 74.61 / 83
p0 −41.86 ± 33.64
1000
500
0
−500
−1000
pull
Entries 84
Mean −3.112
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 84
Mean 0.03362
Std Dev 0.9418
16
14
12
10
8
6
4
2
0
−8
−6
−4
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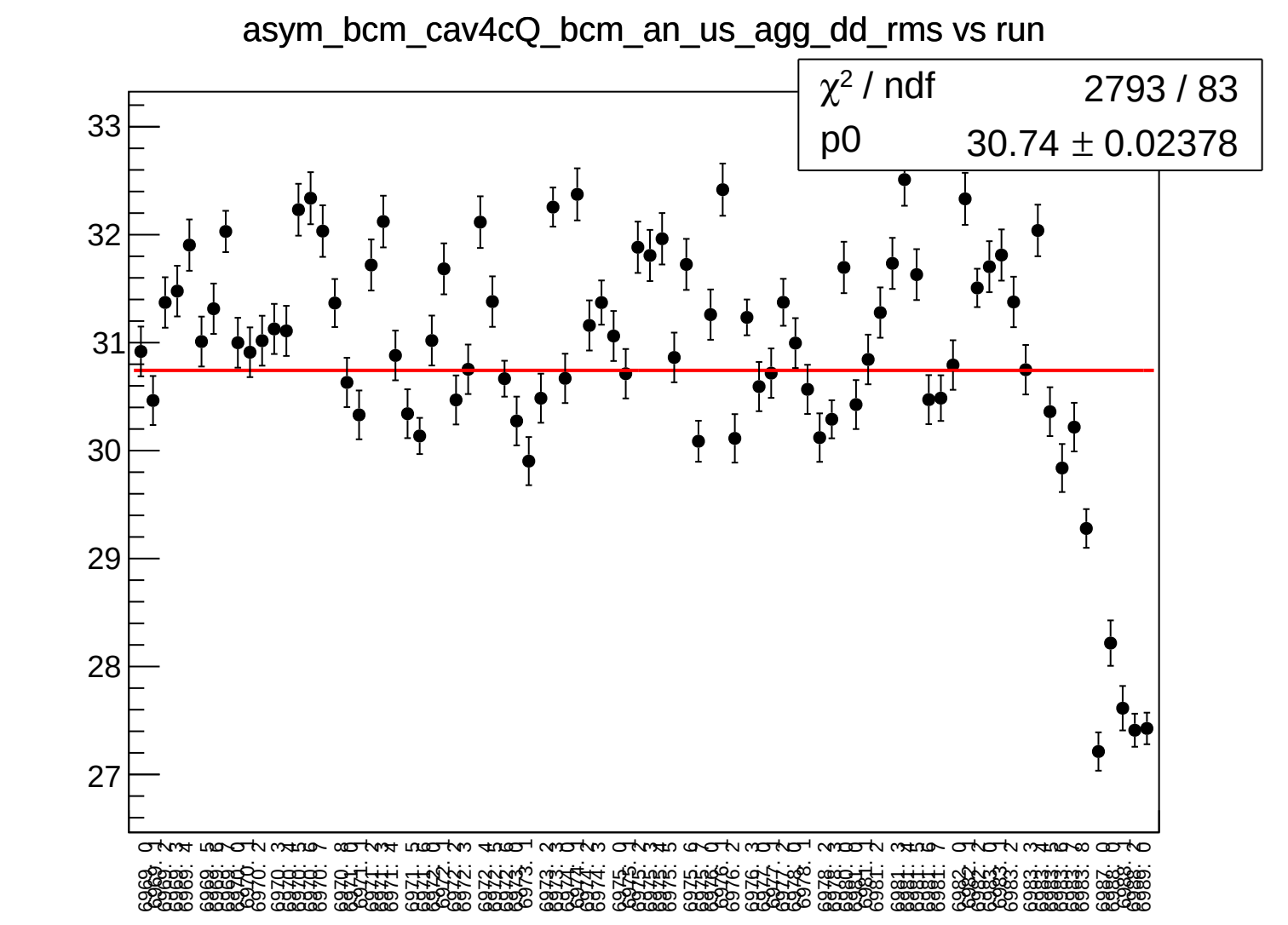
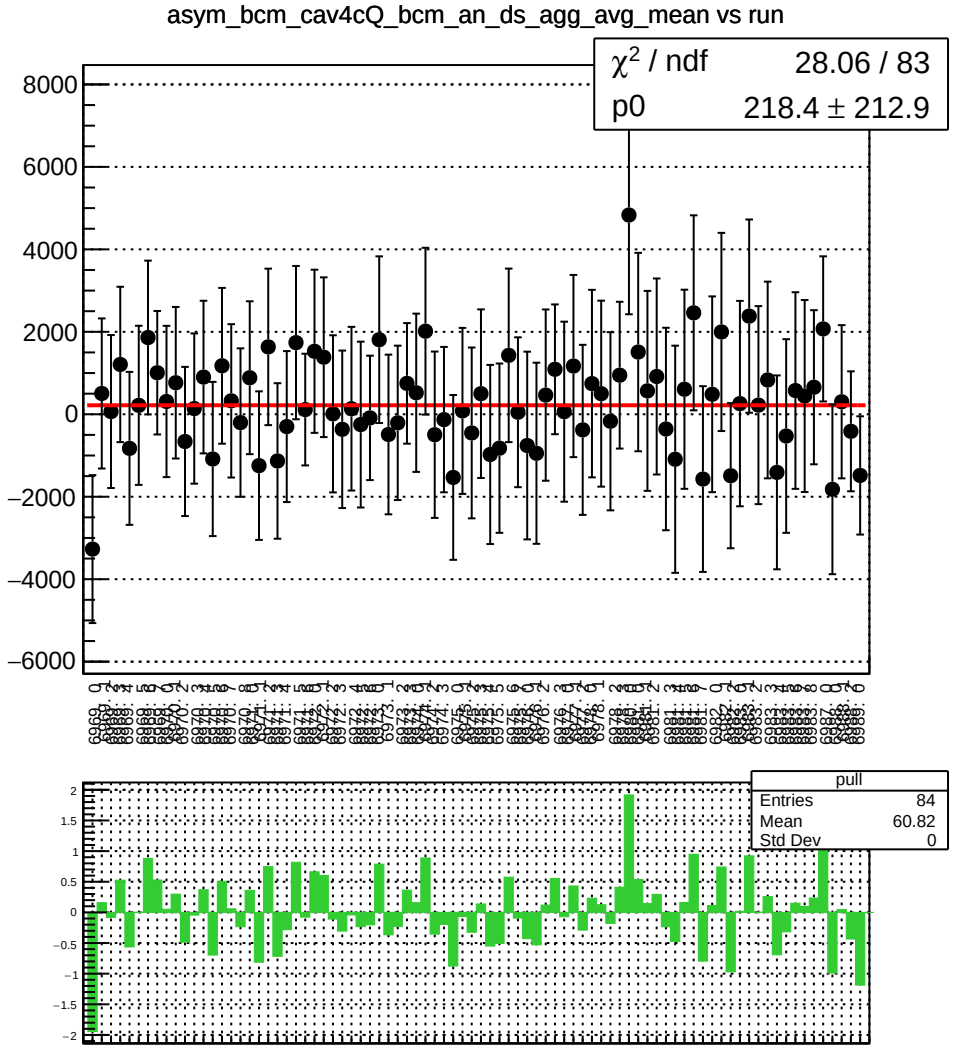
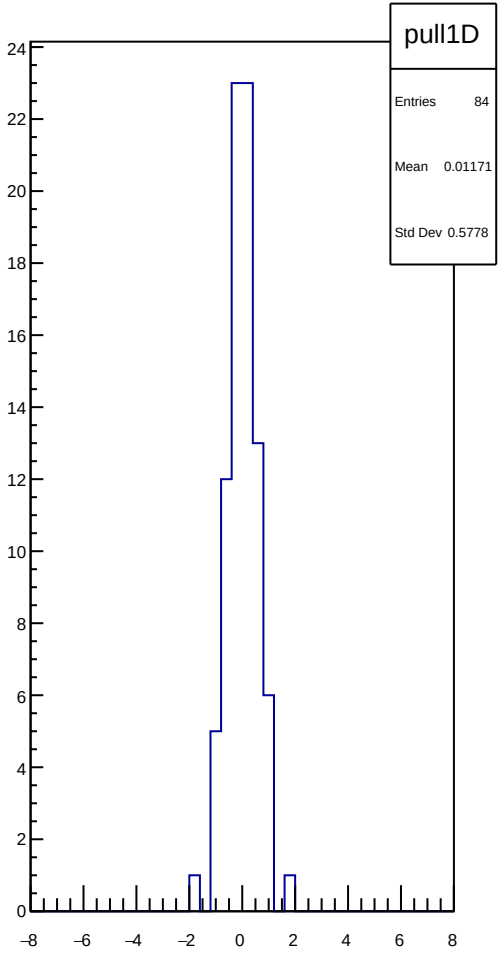
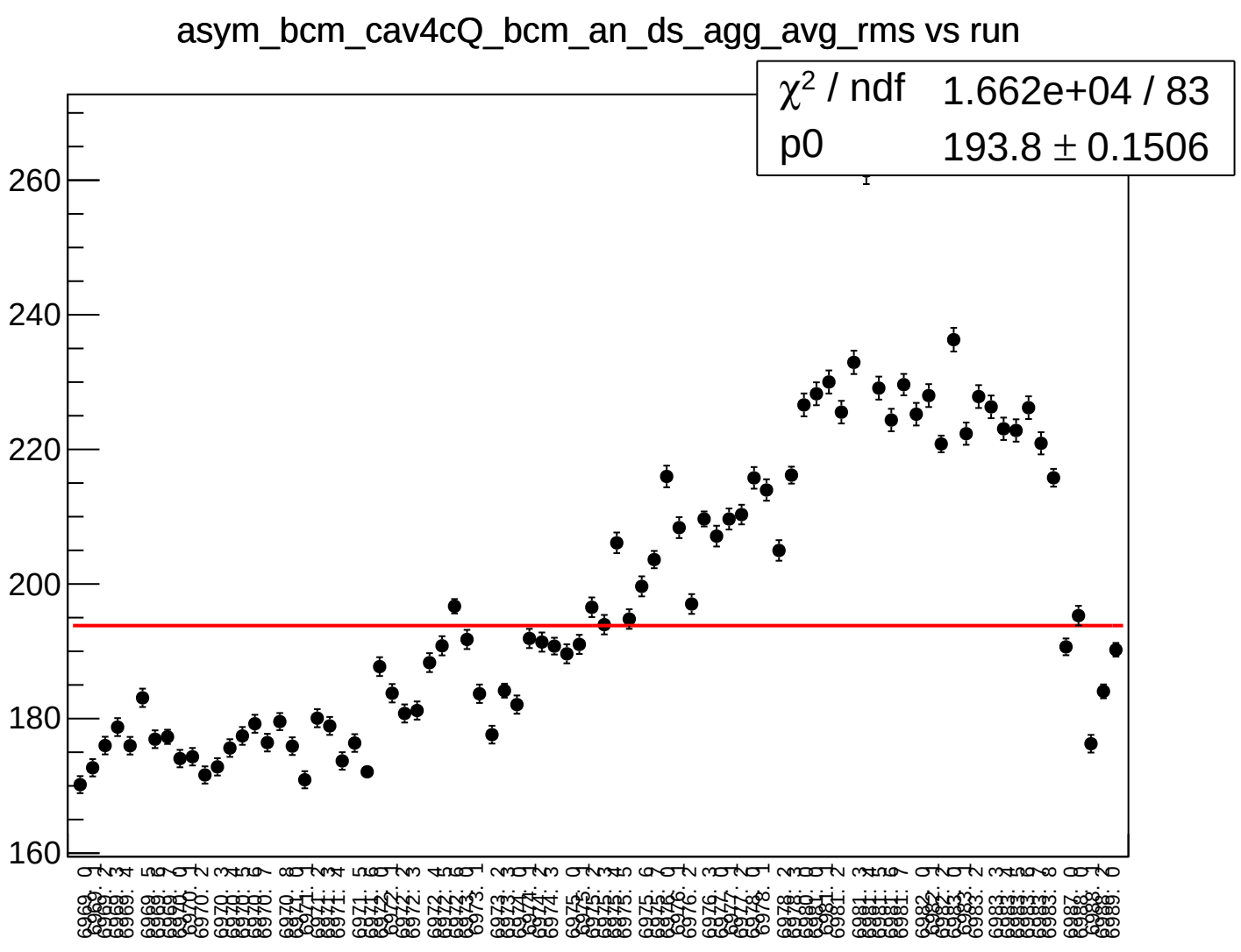
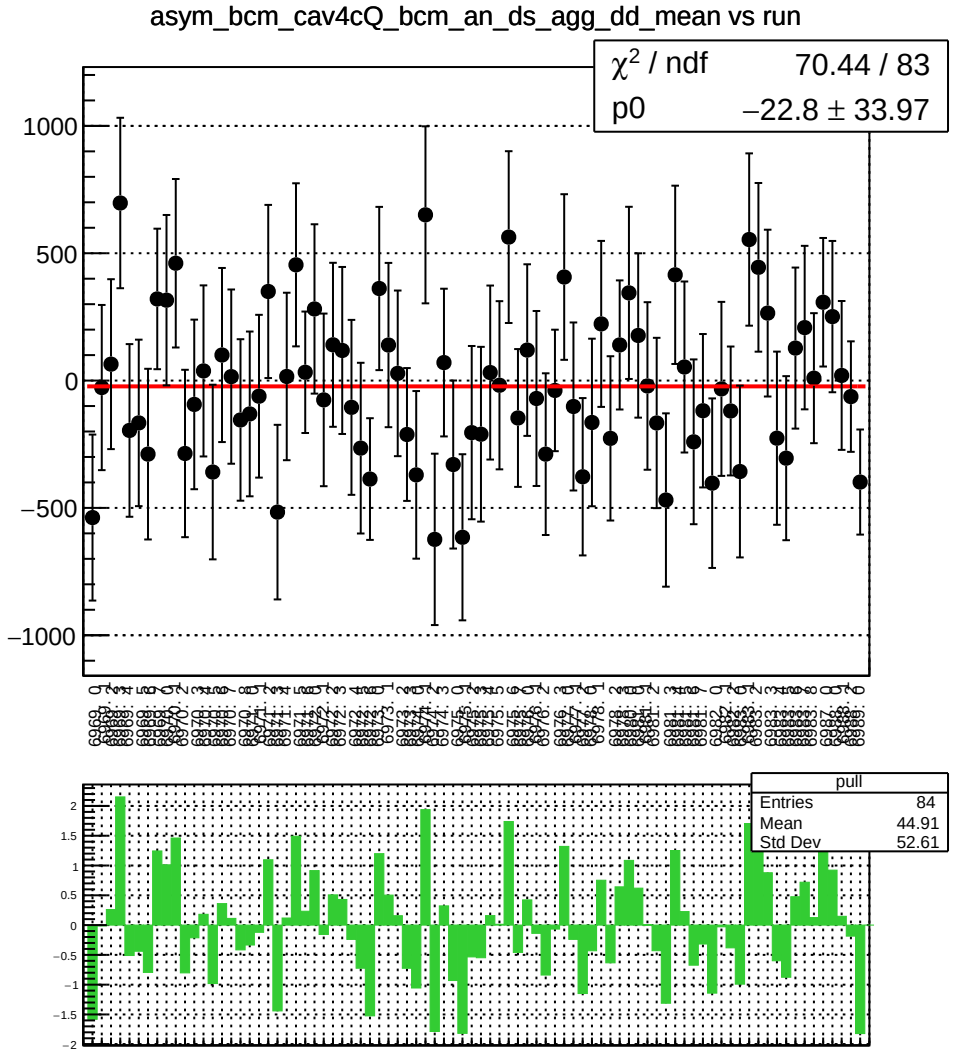
0
2
4
6
8

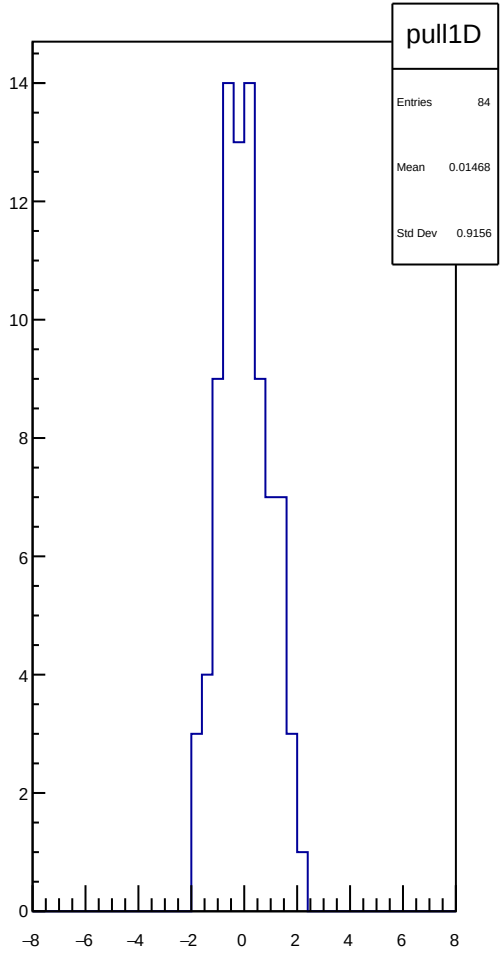

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2793 / 83
p0 30.74 ± 0.02378
33
32
31
30
29
28
27

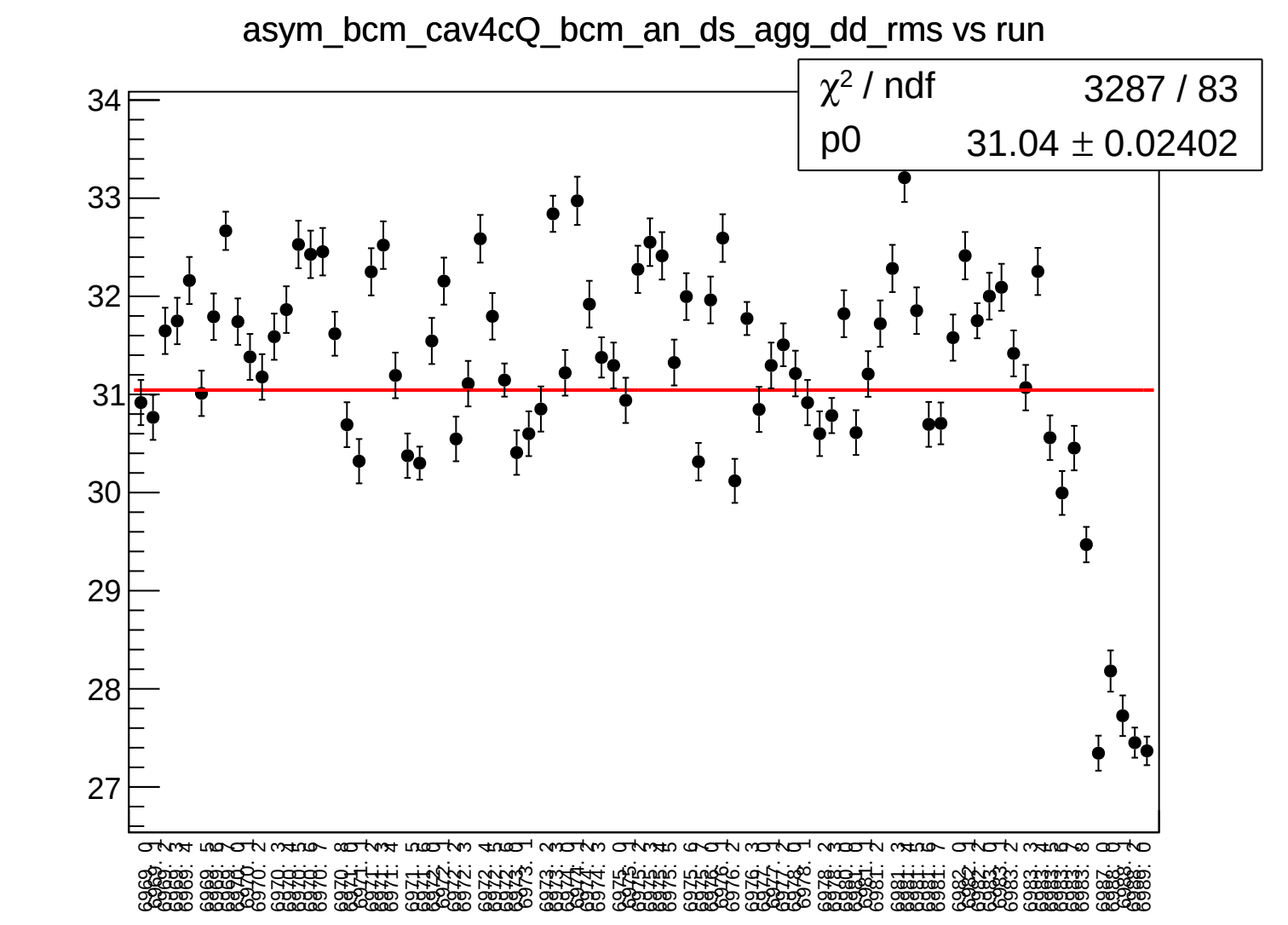

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 28.06 / 83
p0 218.4 ± 212.9
pull
Entries 84
Mean 60.82
Std Dev 0

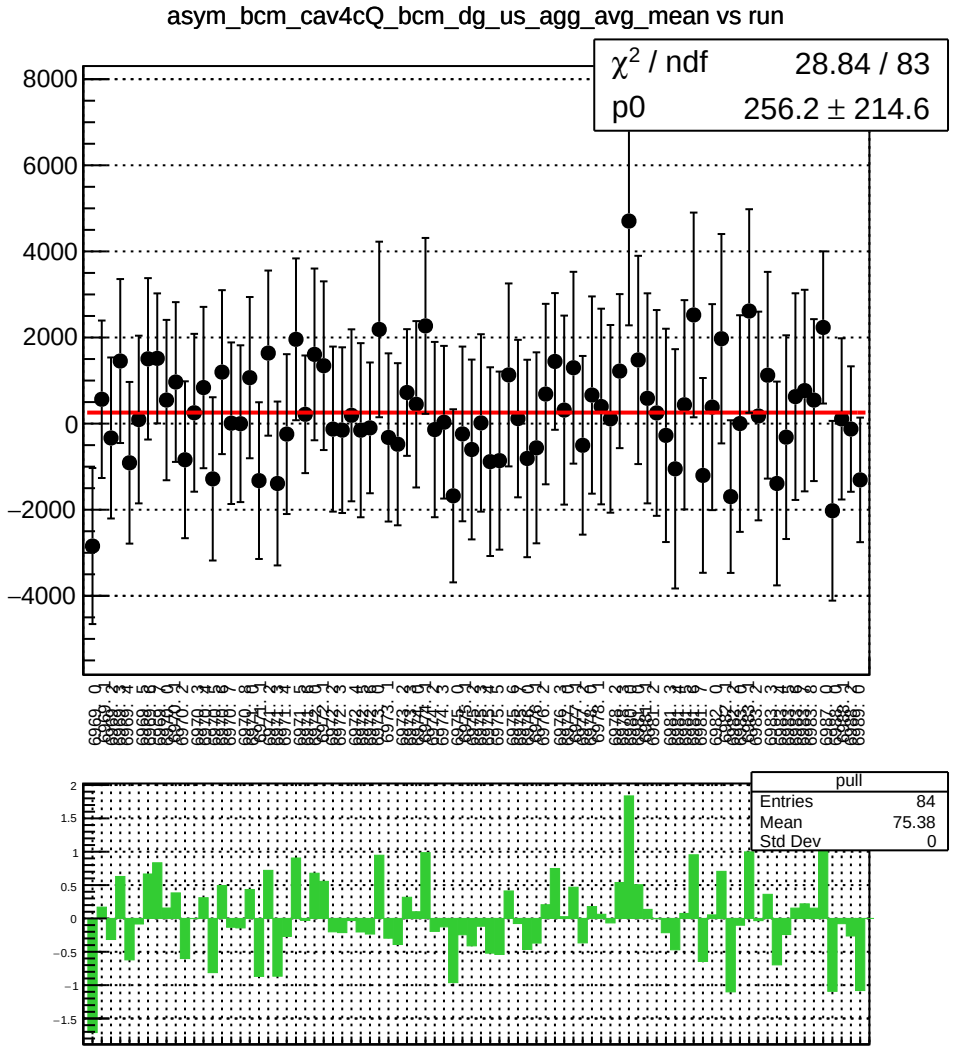

pull1D
Entries 84
Mean 0.01171
Std Dev 0.5778

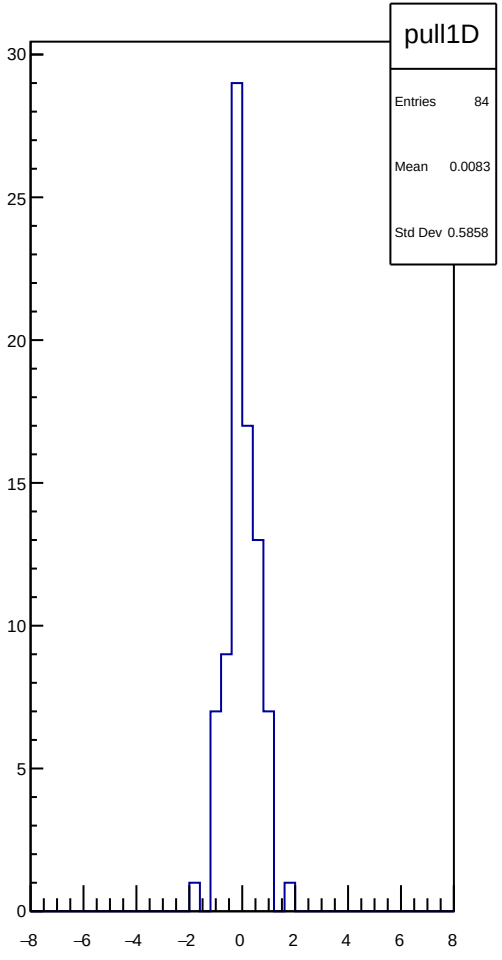

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.662e+04 / 83
p0 193.8 ± 0.1506
260
240
220
200
180
160

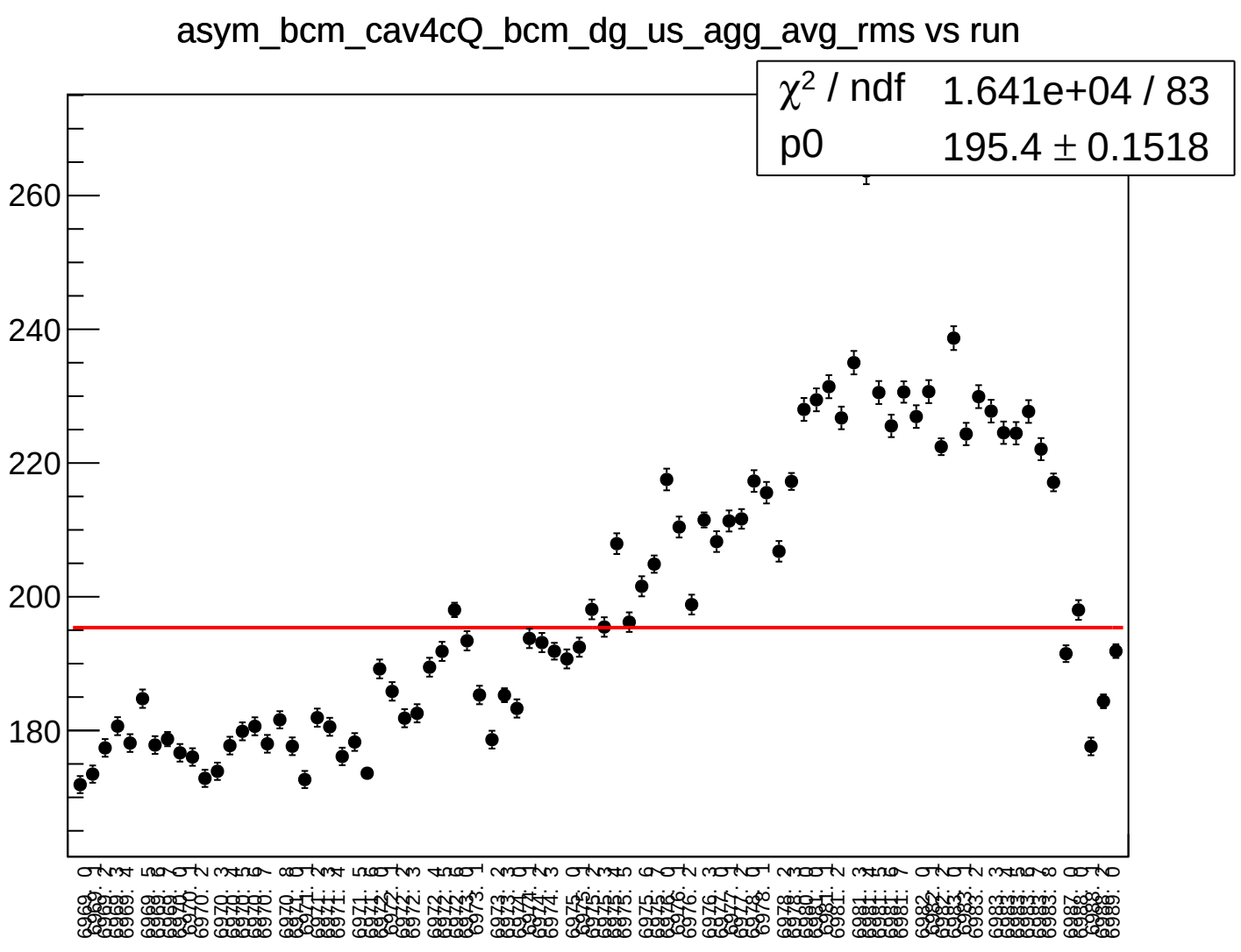

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 70.44 / 83
p0 −22.8 ± 33.97
1000
500
0
−500
−1000
pull
Entries 84
Mean 44.91
Std Dev 52.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

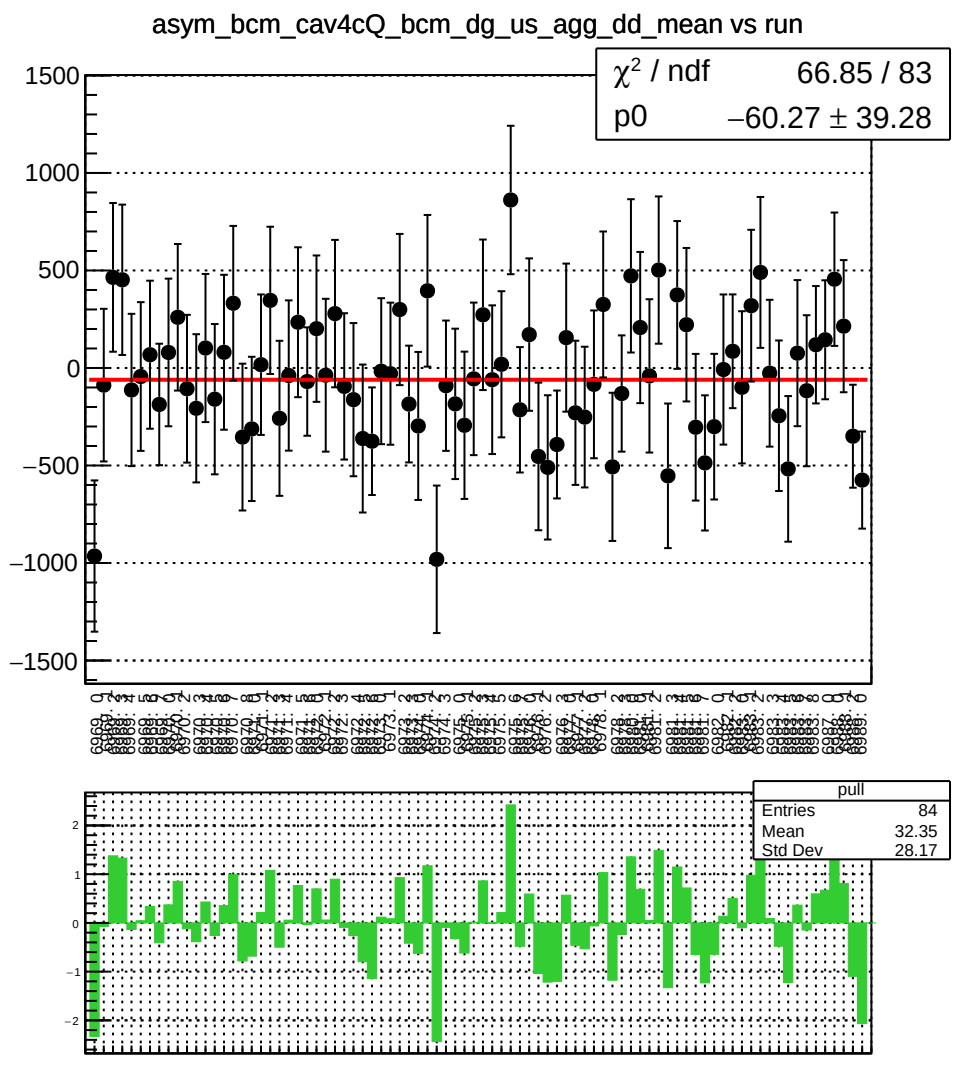

pull1D
Entries 84
Mean 0.01468
Std Dev 0.9156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

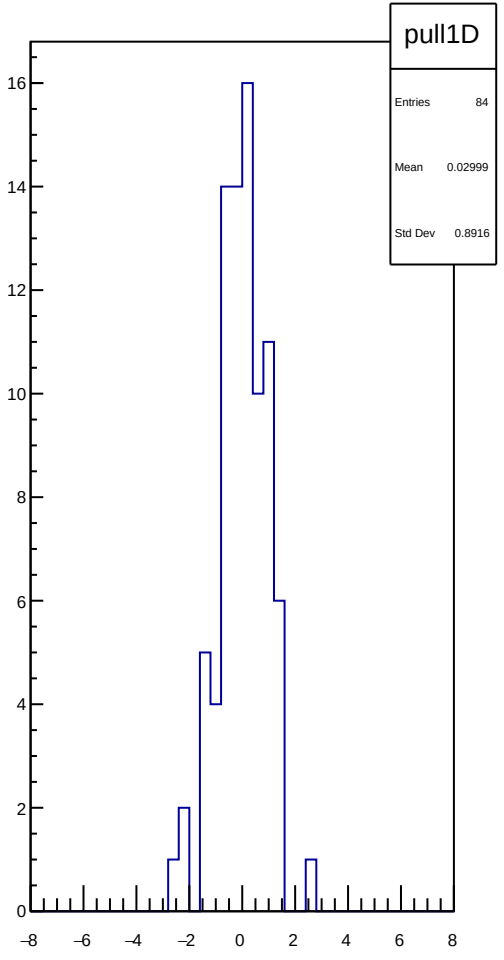

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3287 / 83
p0 31.04 ± 0.02402
34
33
32
31
30
29
28
27

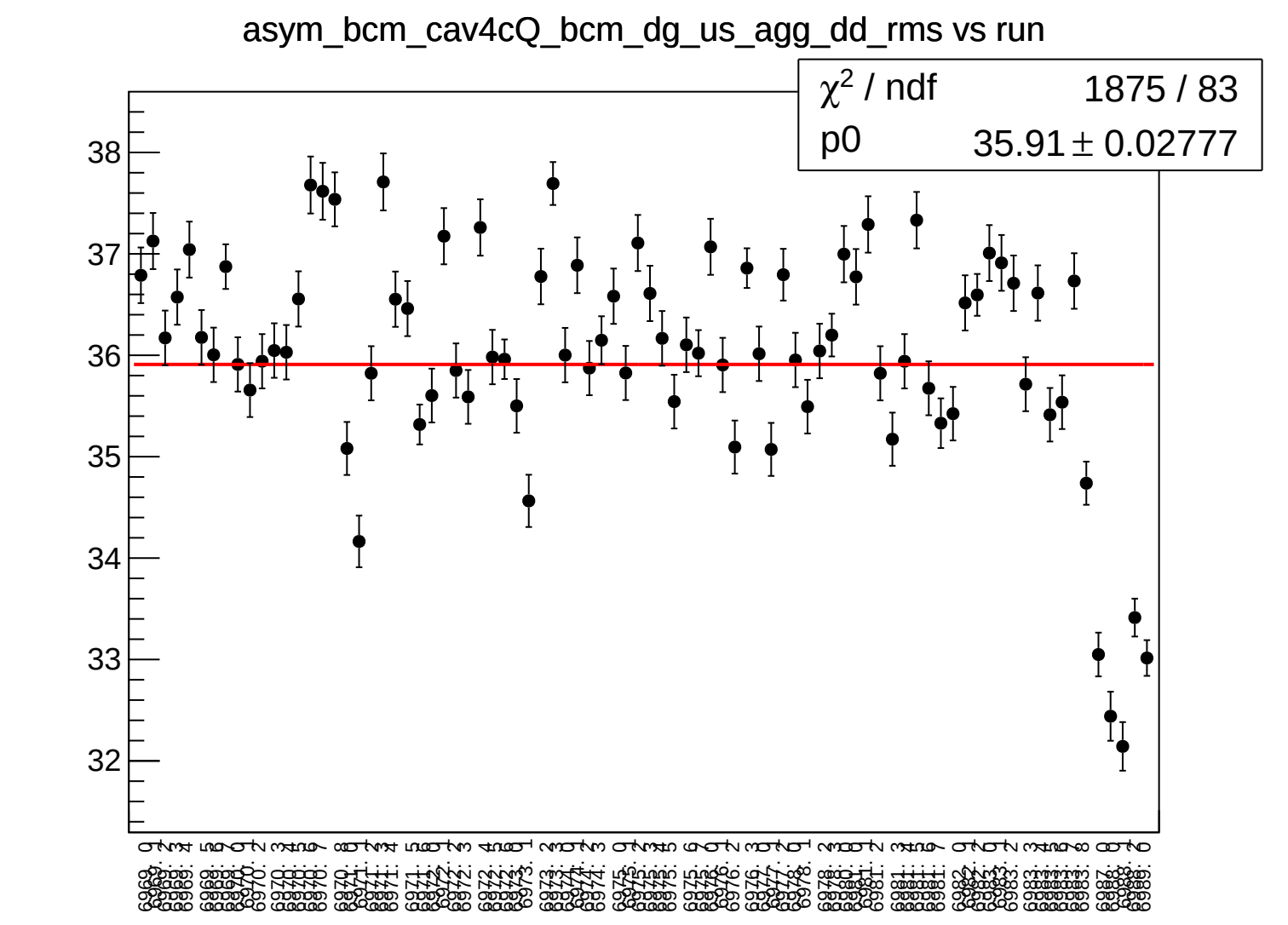

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 28.84 / 83
p0 256.2 ± 214.6
pull
Entries 84
Mean 75.38
Std Dev 0

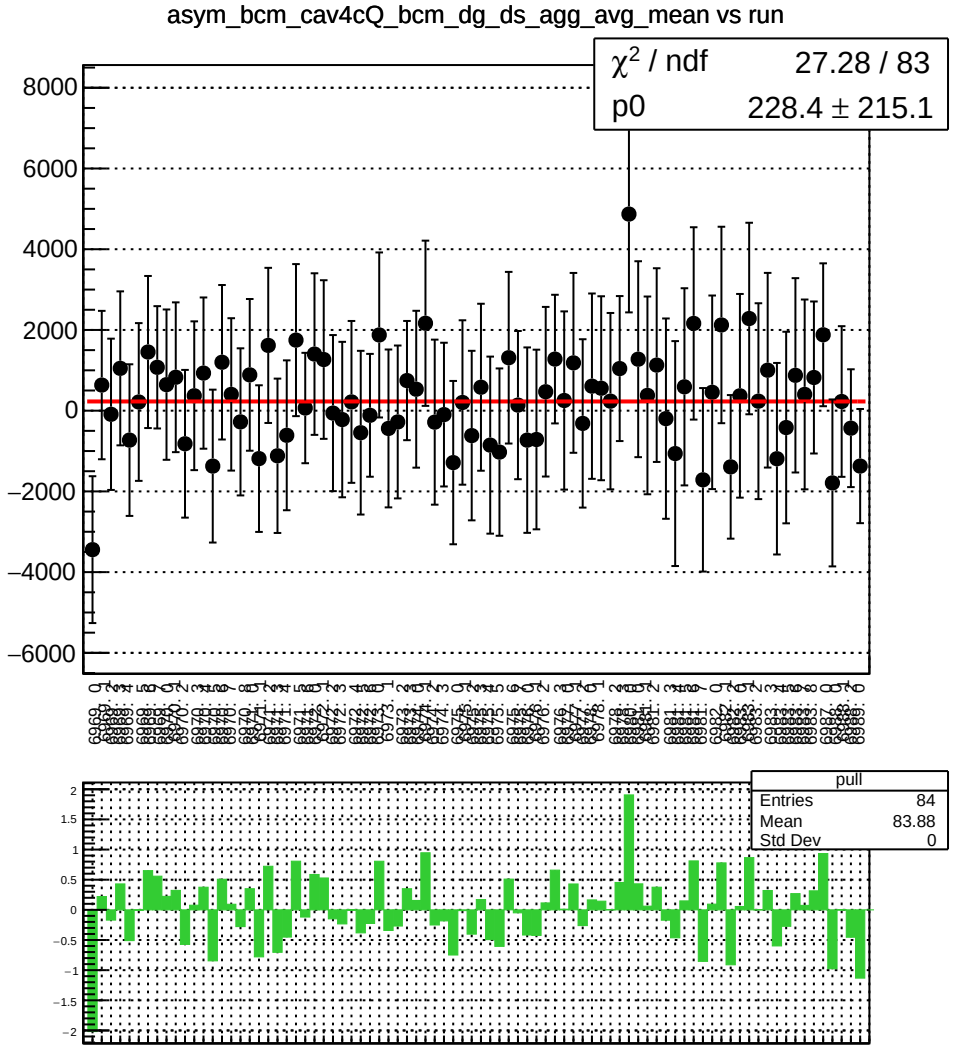

pull1D
Entries 84
Mean 0.0083
Std Dev 0.5858

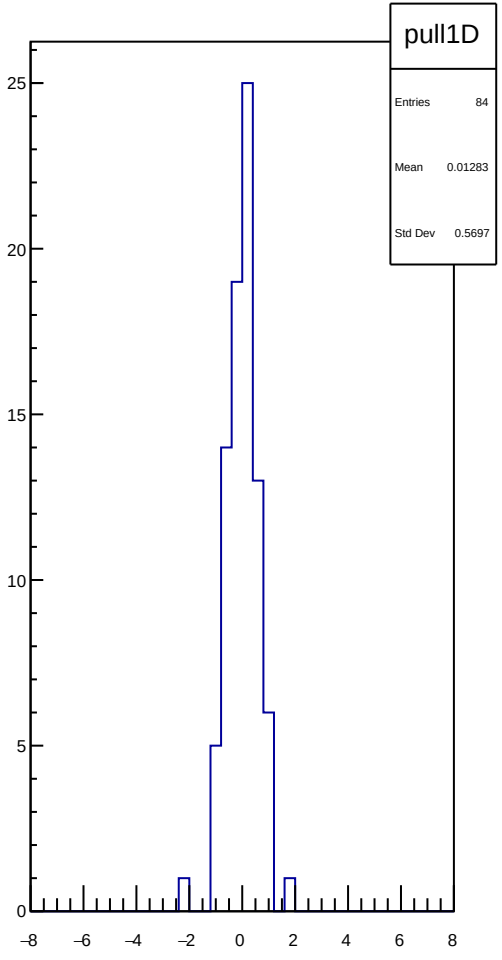

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.641e+04 / 83
p0 195.4 ± 0.1518
260
240
220
200
180

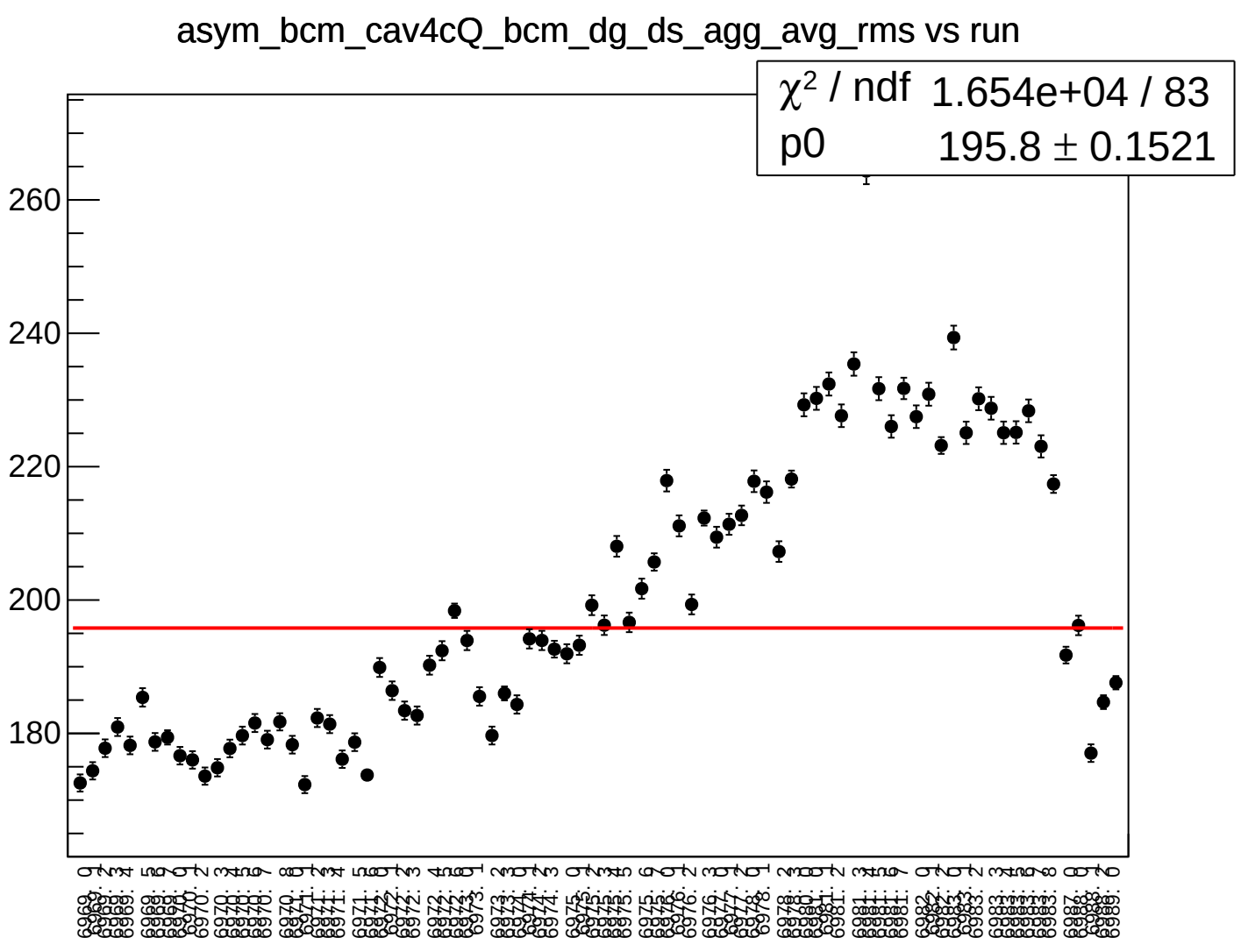

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 66.85 / 83
p0 −60.27 ± 39.28
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean 32.35
Std Dev 28.17
2
1
0
−1
−2

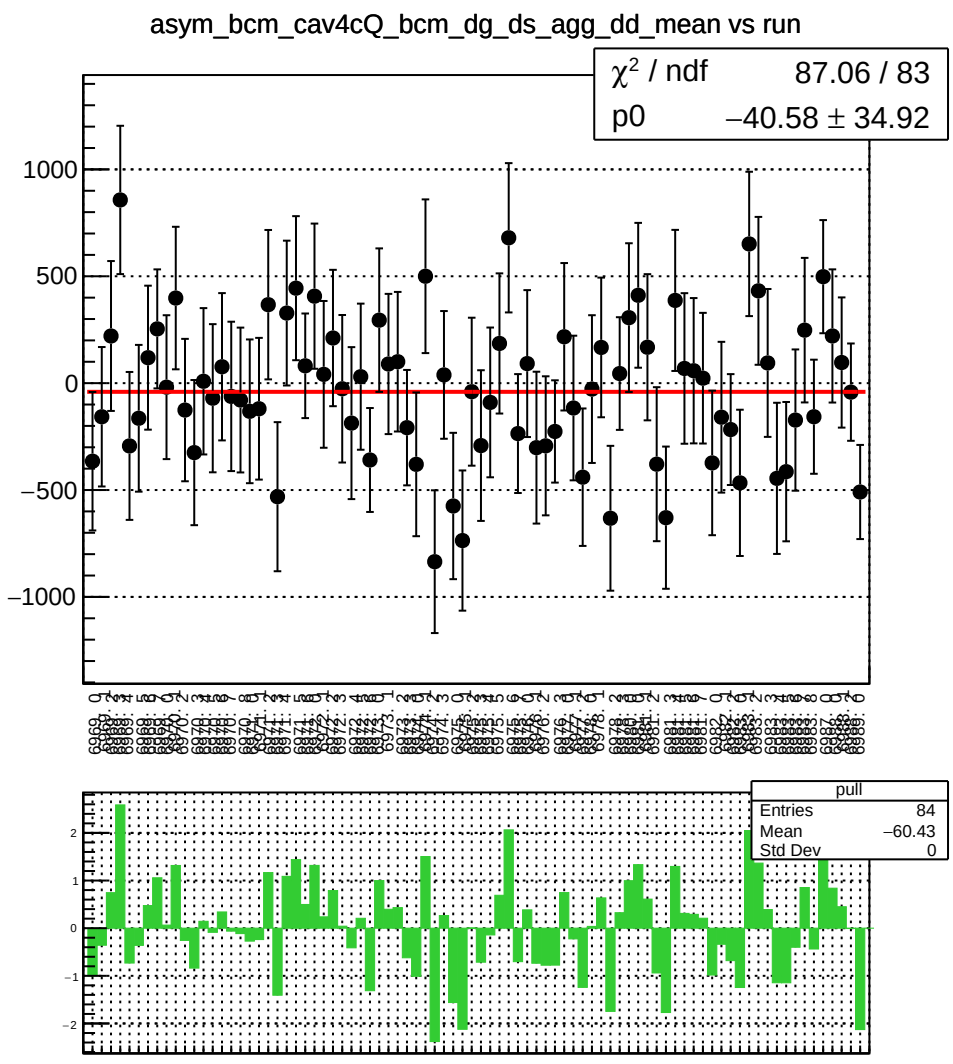

pull1D
Entries 84
Mean 0.02999
Std Dev 0.8916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

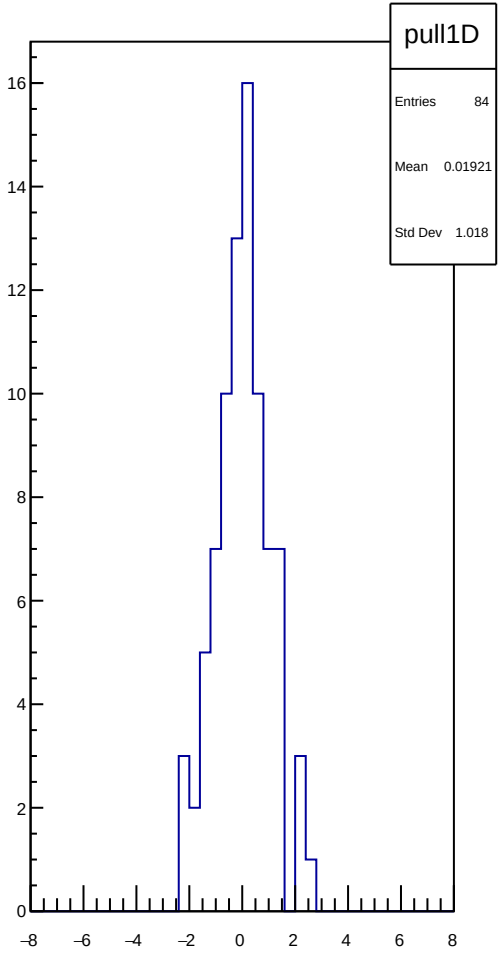

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1875 / 83
p0 35.91 ± 0.02777
38
37
36
35
34
33
32

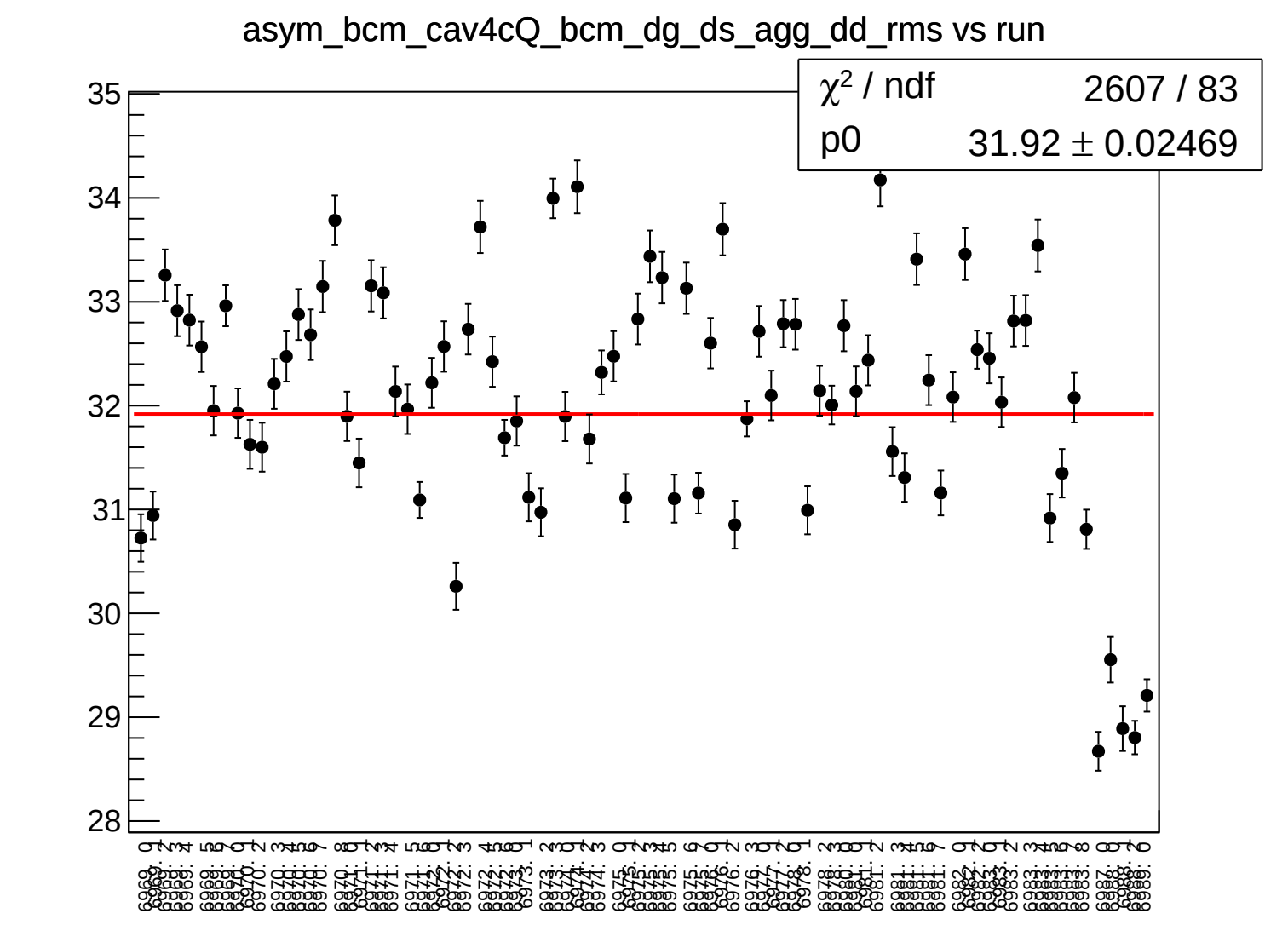

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 27.28 / 83
p0 228.4 ± 215.1
pull
Entries 84
Mean 83.88
Std Dev 0

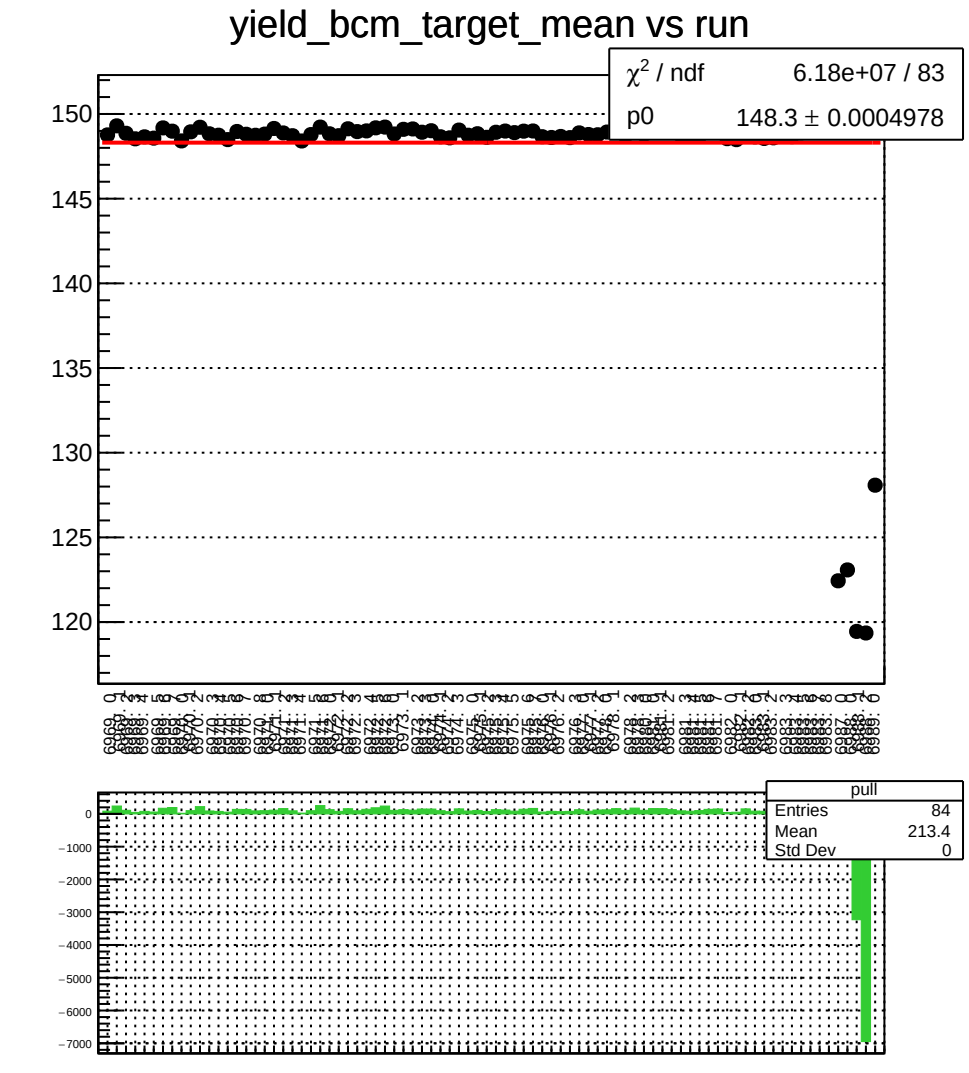

pull1D
Entries 84
Mean 0.01283
Std Dev 0.5697

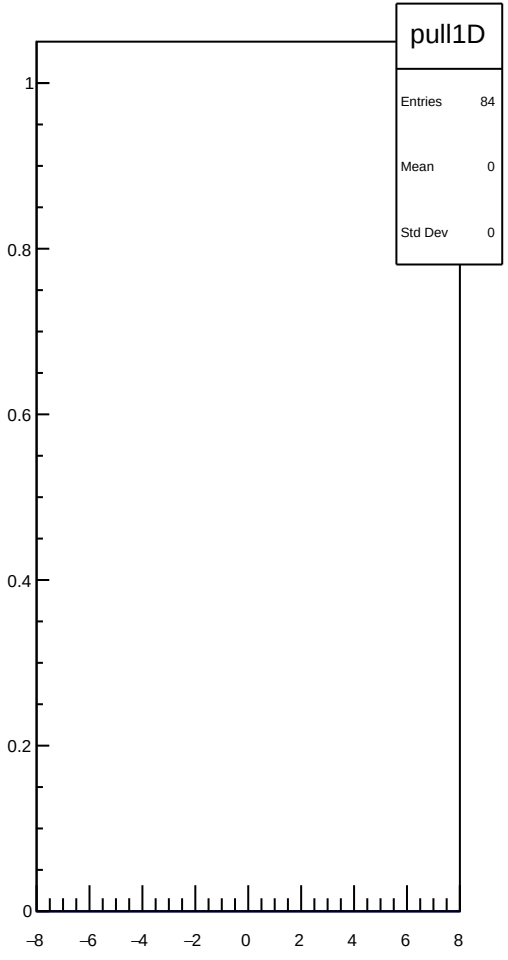

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.654e+04 / 83
p0 195.8 ± 0.1521
260
240
220
200
180

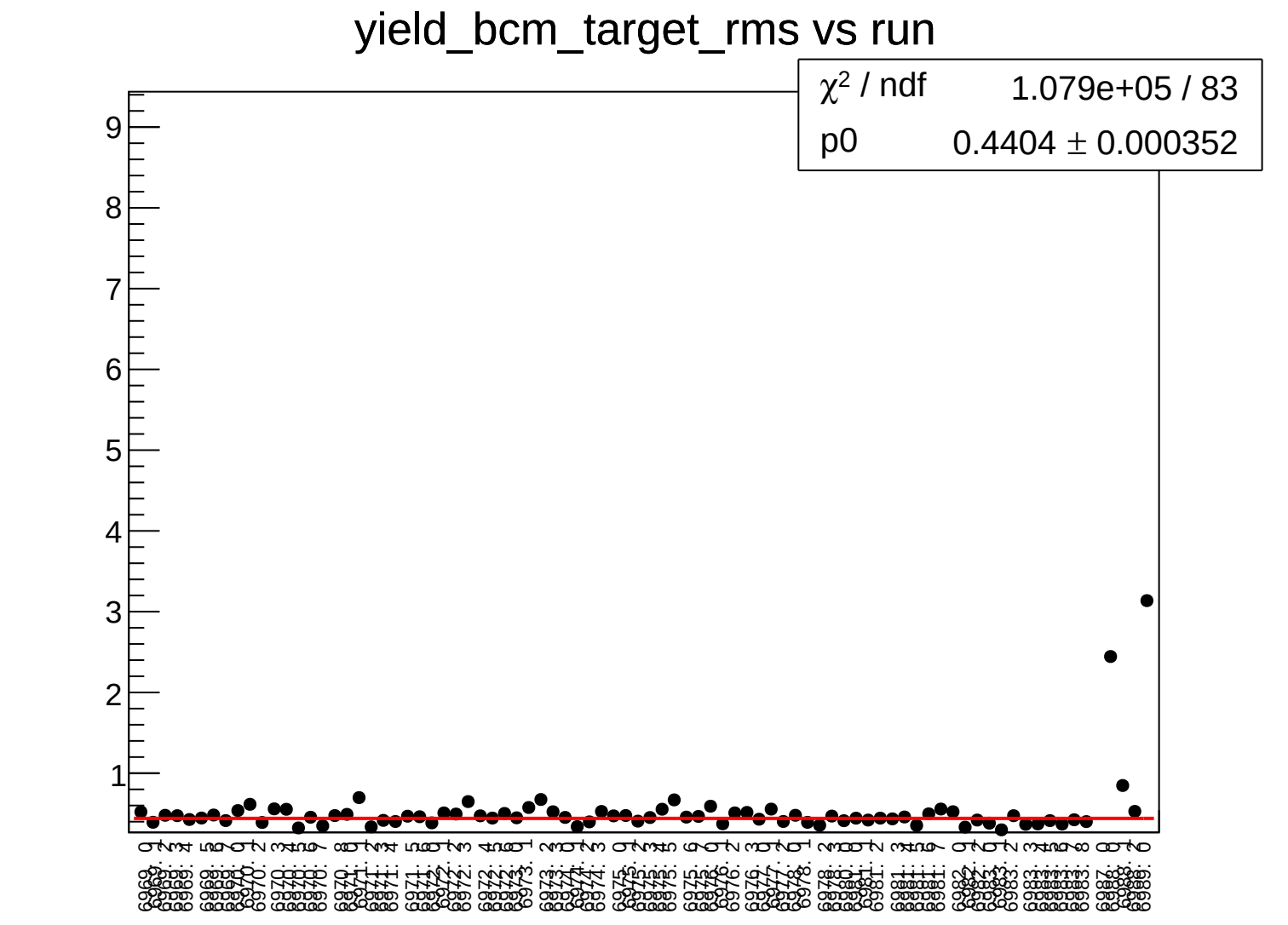

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 87.06 / 83
p0 −40.58 ± 34.92
1000
500
0
−500
−1000
pull
Entries 84
Mean −60.43
Std Dev 0
2
1
0
−1
−2

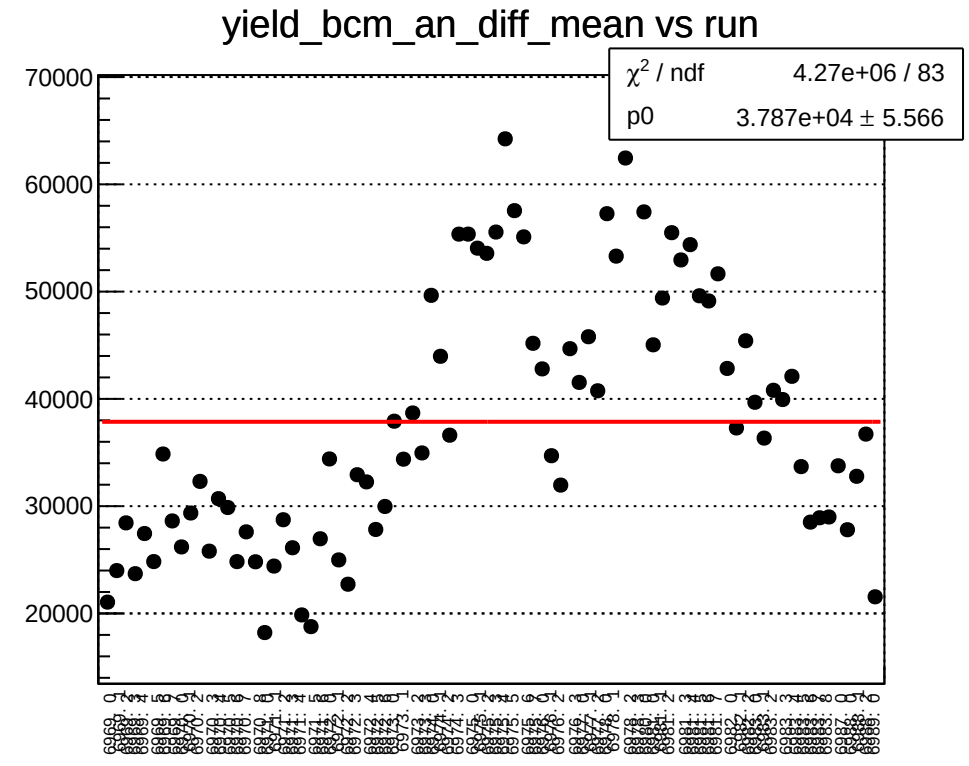

pull1D
Entries 84
Mean 0.01921
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

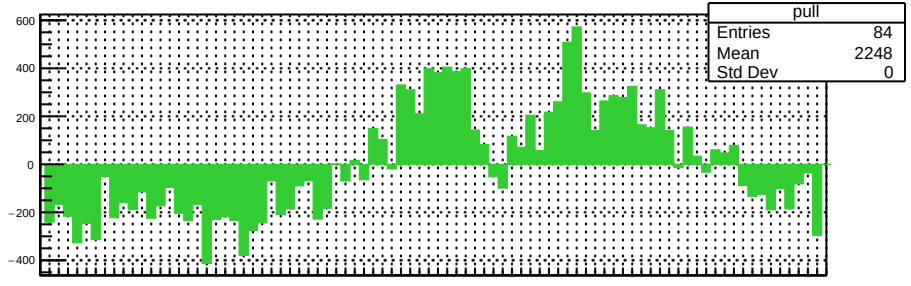

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2607 / 83
p0 31.92 ± 0.02469
35
34
33
32
31
30
29
28

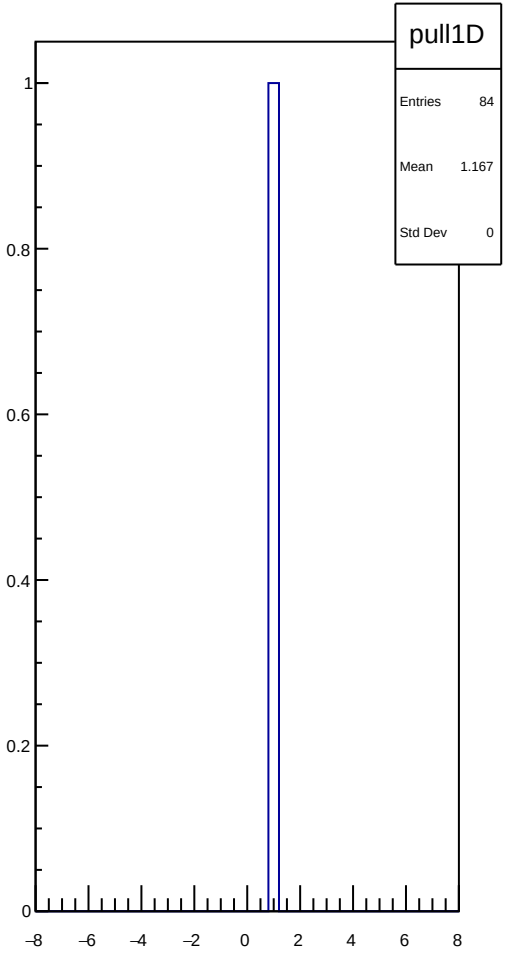

yield_bcm_target_mean vs run
χ² / ndf 6.18e+07 / 83
p0 148.3 ± 0.0004978
150
145
140
135
130
125
120
pull
Entries 84
Mean 213.4
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000

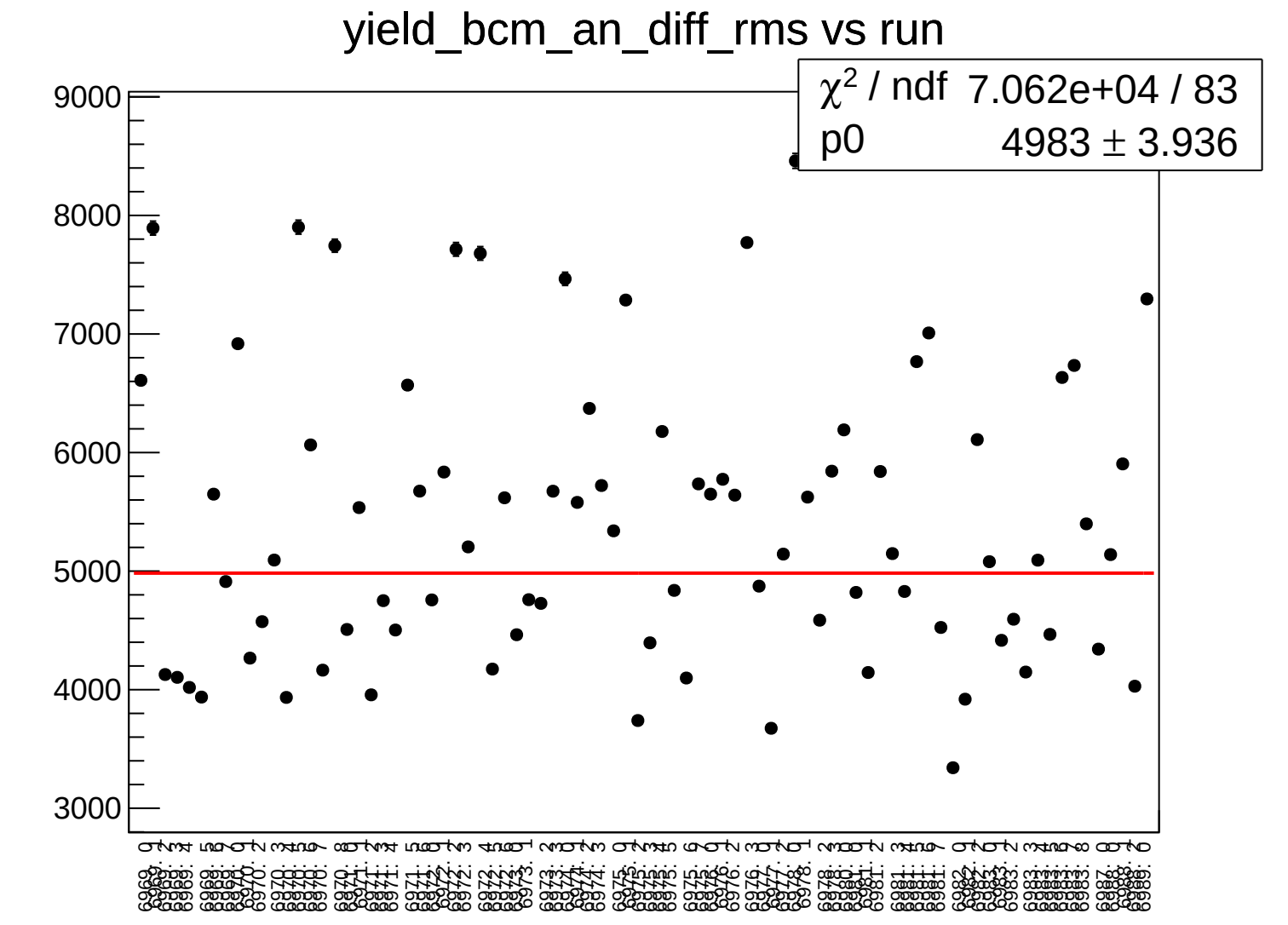

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

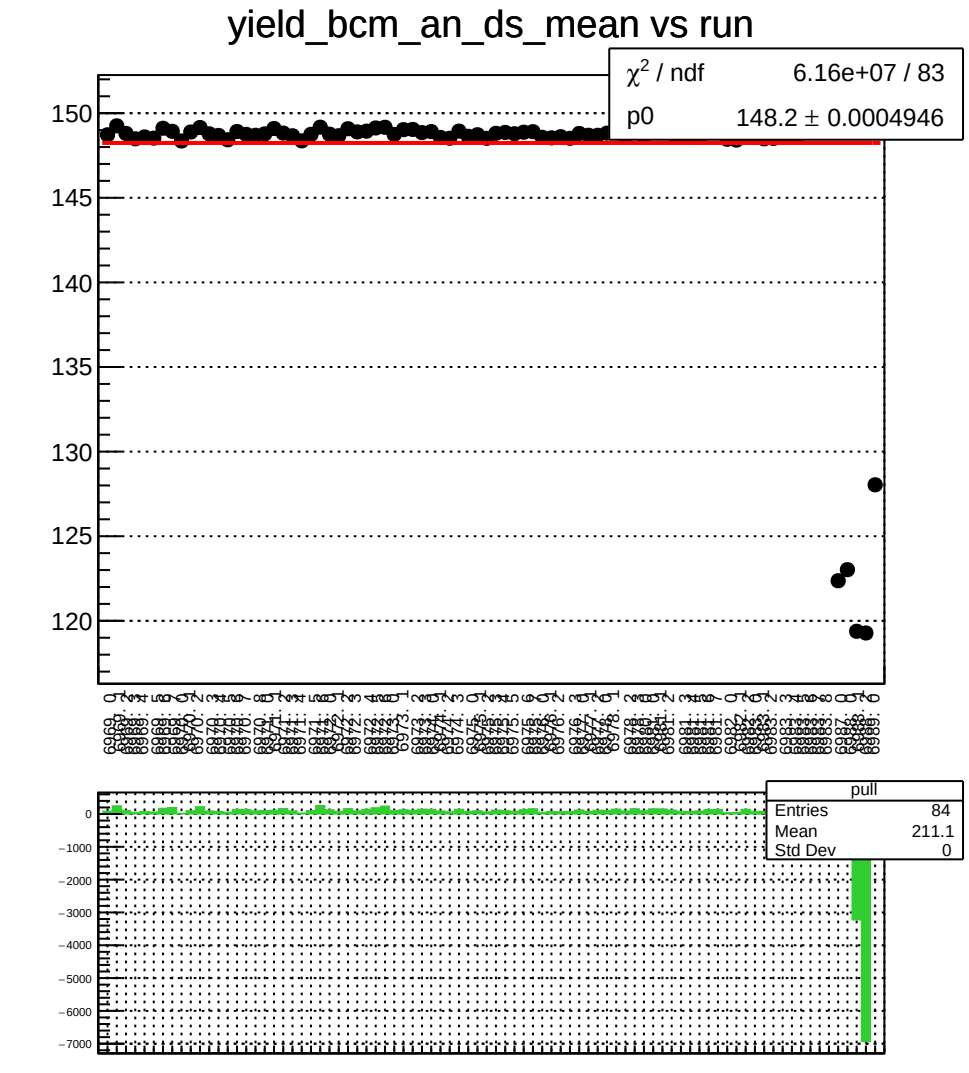

yield_bcm_target_rms vs run
χ² / ndf 1.079e+05 / 83
p0 0.4404 ± 0.000352
9
8
7
6
5
4
3
2
1

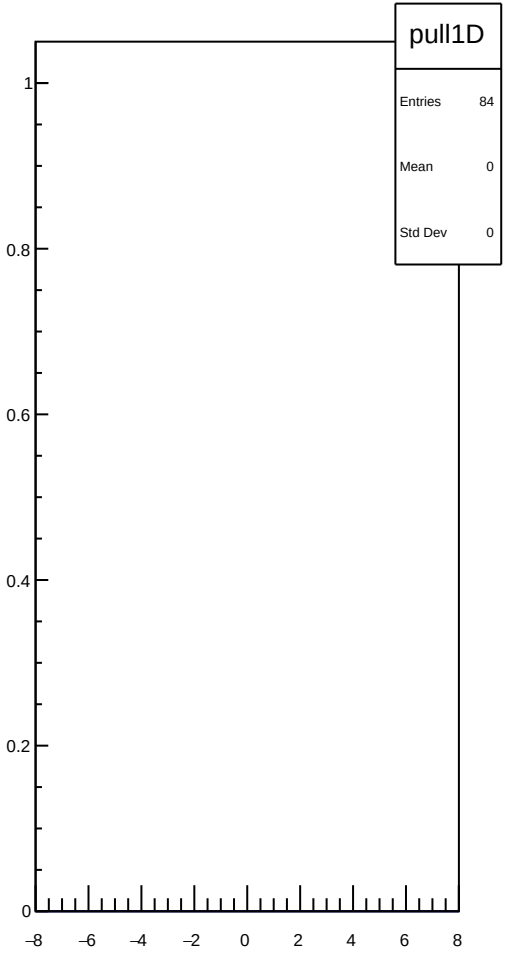

yield_bcm_an_diff_mean vs run
χ² / ndf 4.27e+06 / 83
p0 3.787e+04 ± 5.566
70000
60000
50000
40000
30000
20000

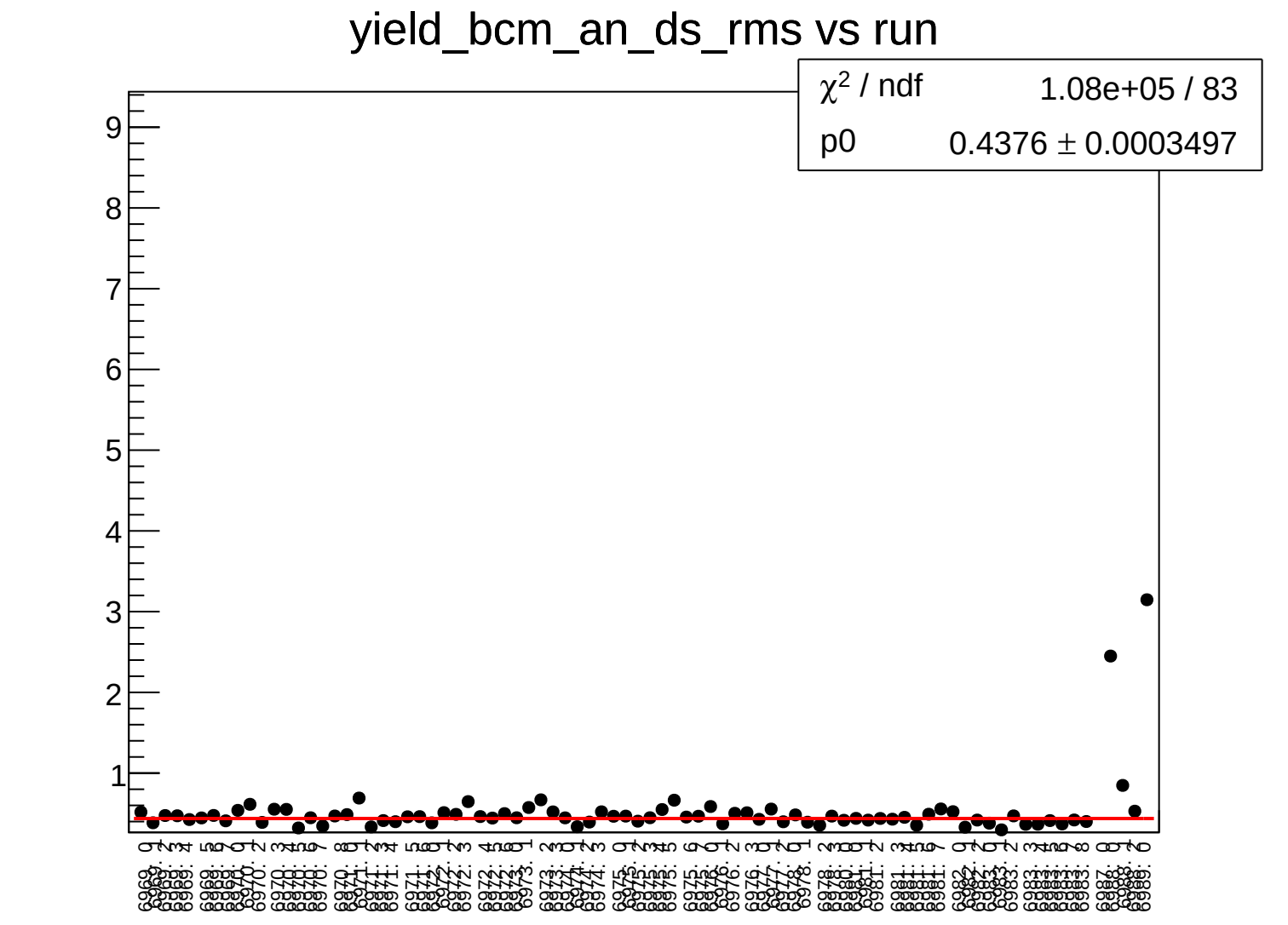

pull
Entries 84
Mean 2248
Std Dev 0
600
400
200
0
−200
−400

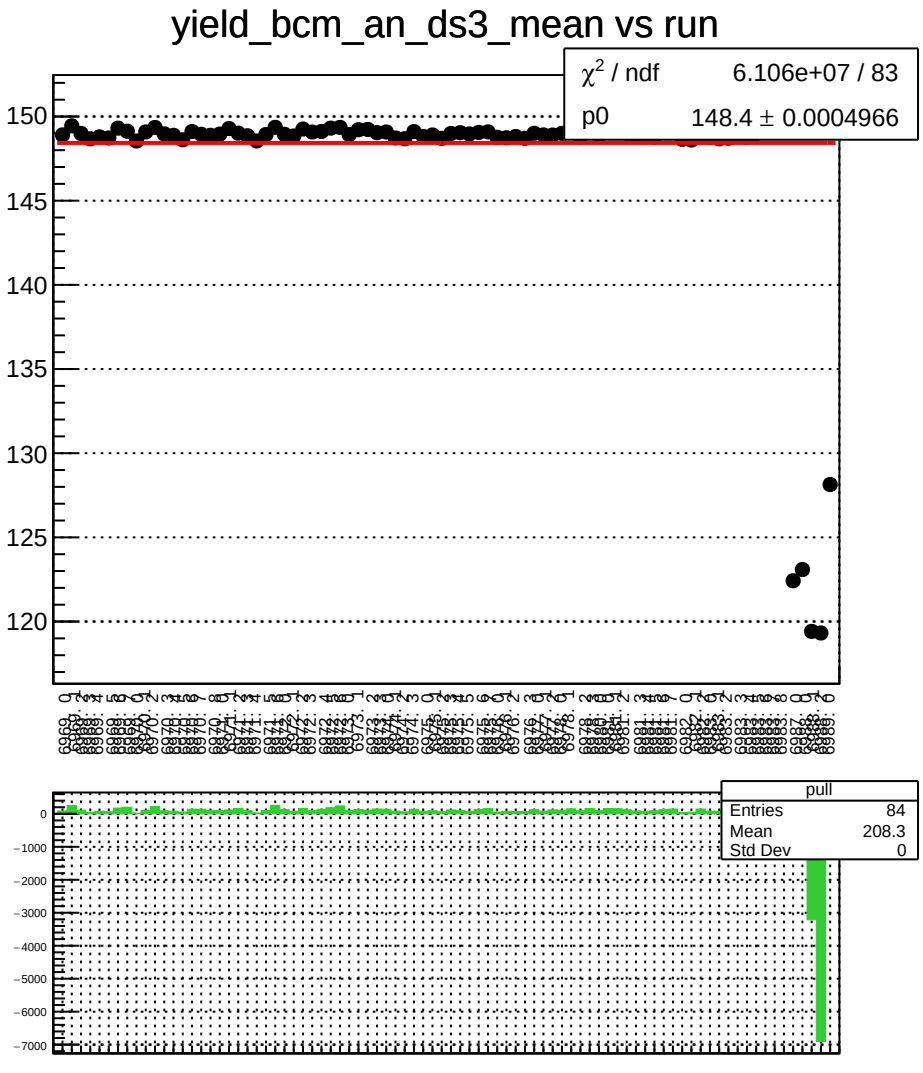

pull1D
Entries 84
Mean 1.167
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

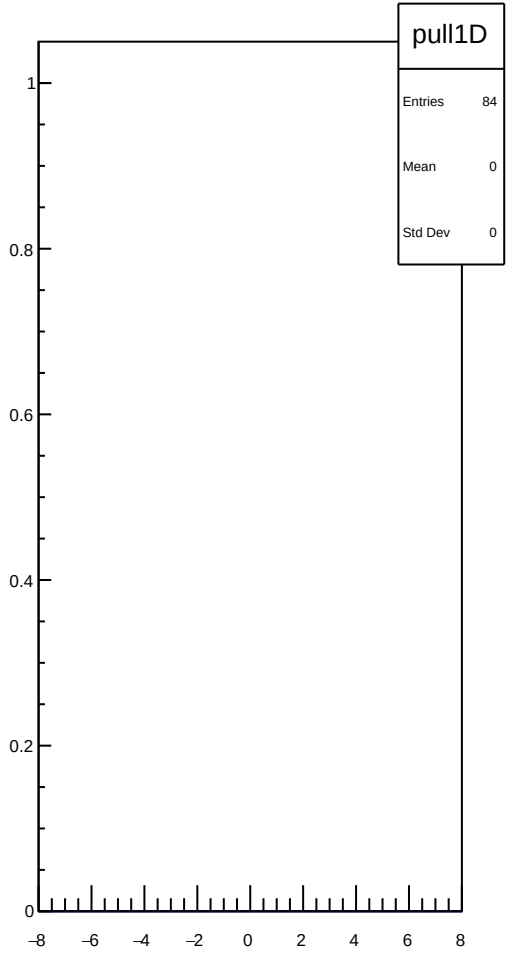

yield_bcm_an_diff_rms vs run
χ^2 / ndf 7.062e+04 / 83
p0 4983 ± 3.936
9000
8000
7000
6000
5000
4000
3000

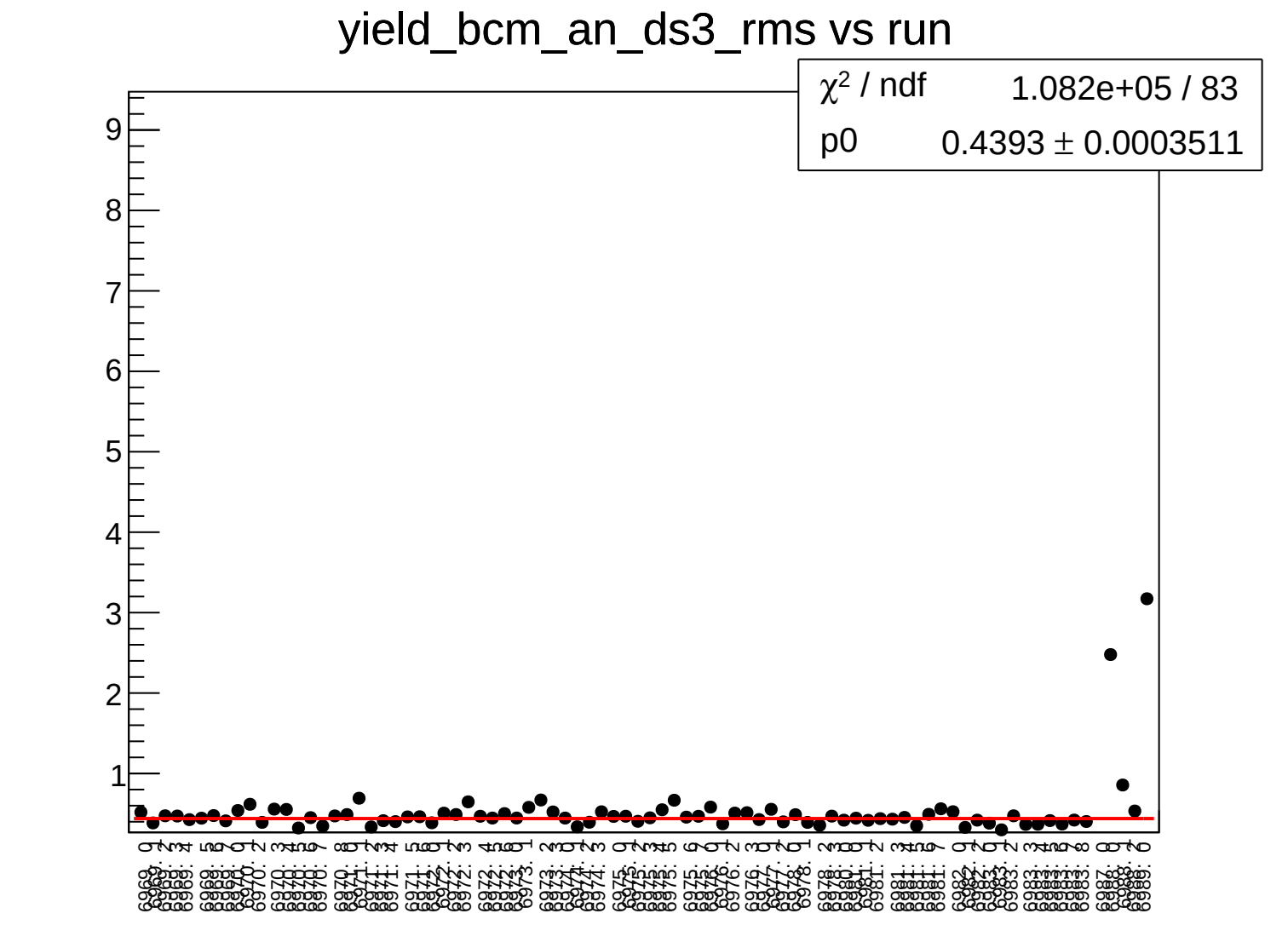

yield_bcm_an_ds_mean vs run
χ² / ndf 6.16e+07 / 83
p0 148.2 ± 0.0004946
150
145
140
135
130
125
120
pull
Entries 84
Mean 211.1
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000

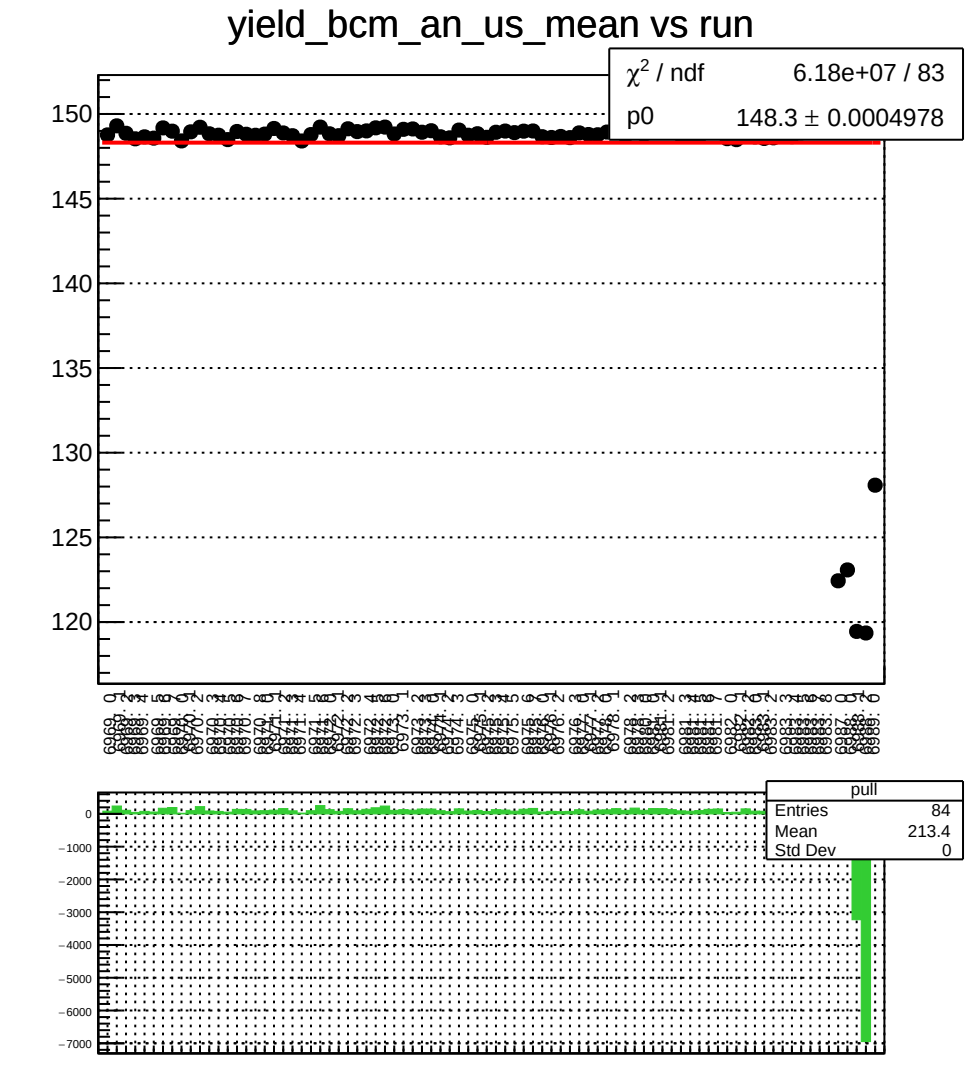

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

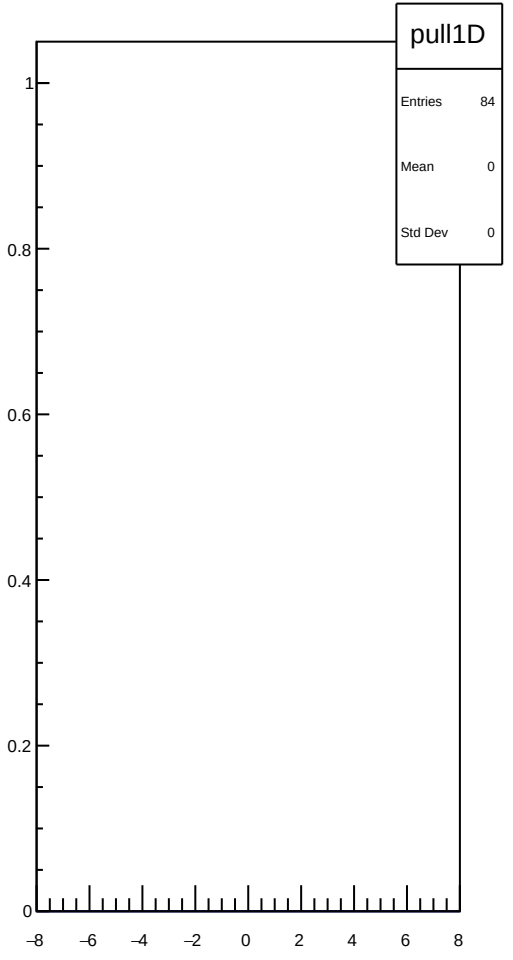

yield_bcm_an_ds_rms vs run
χ2 / ndf 1.08e+05 / 83
p0 0.4376 ± 0.0003497
9
8
7
6
5
4
3
2
1

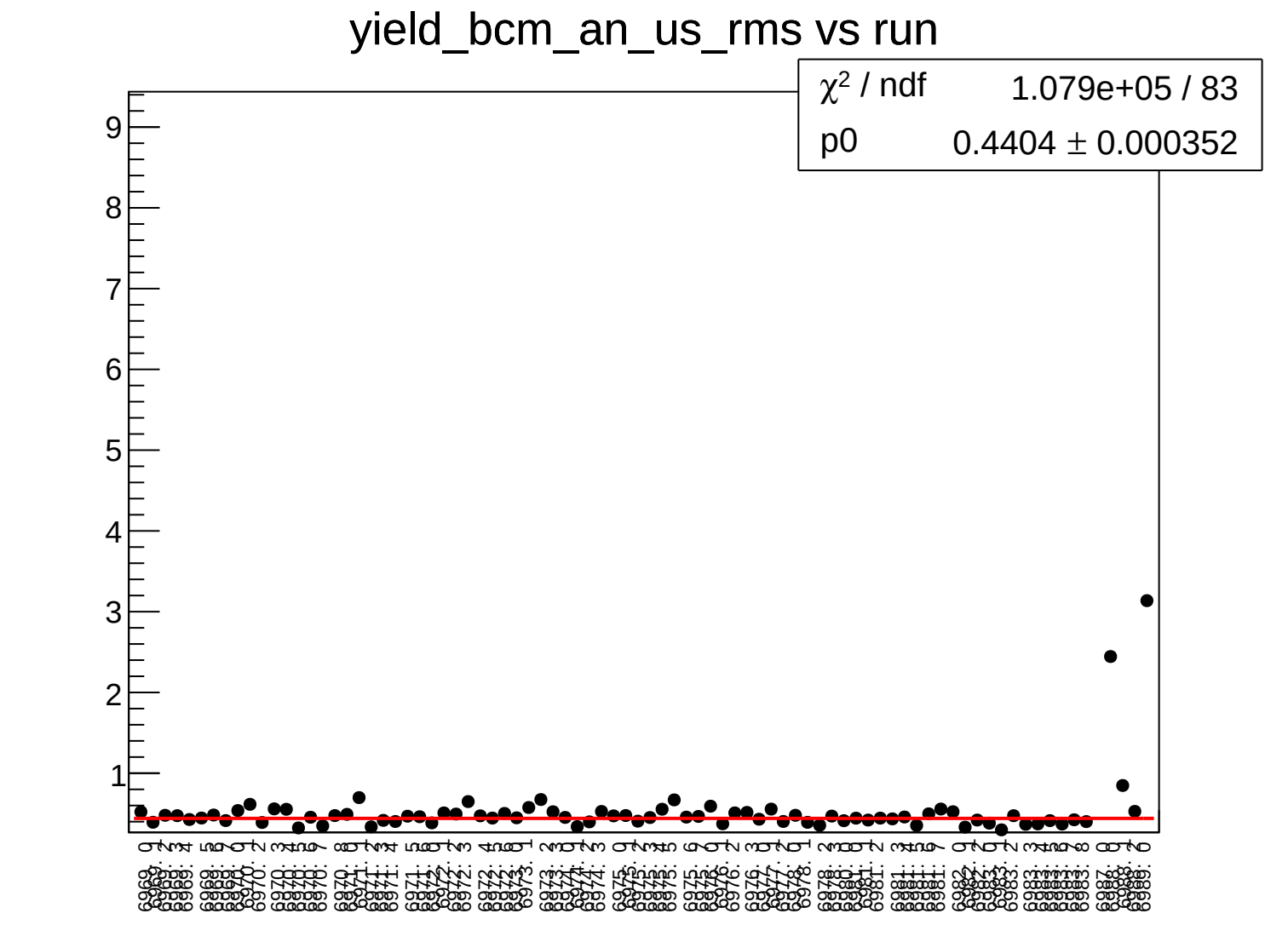

yield_bcm_an_ds3_mean vs run
χ² / ndf 6.106e+07 / 83
p0 148.4 ± 0.0004966
150
145
140
135
130
125
120
pull
Entries 84
Mean 208.3
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000

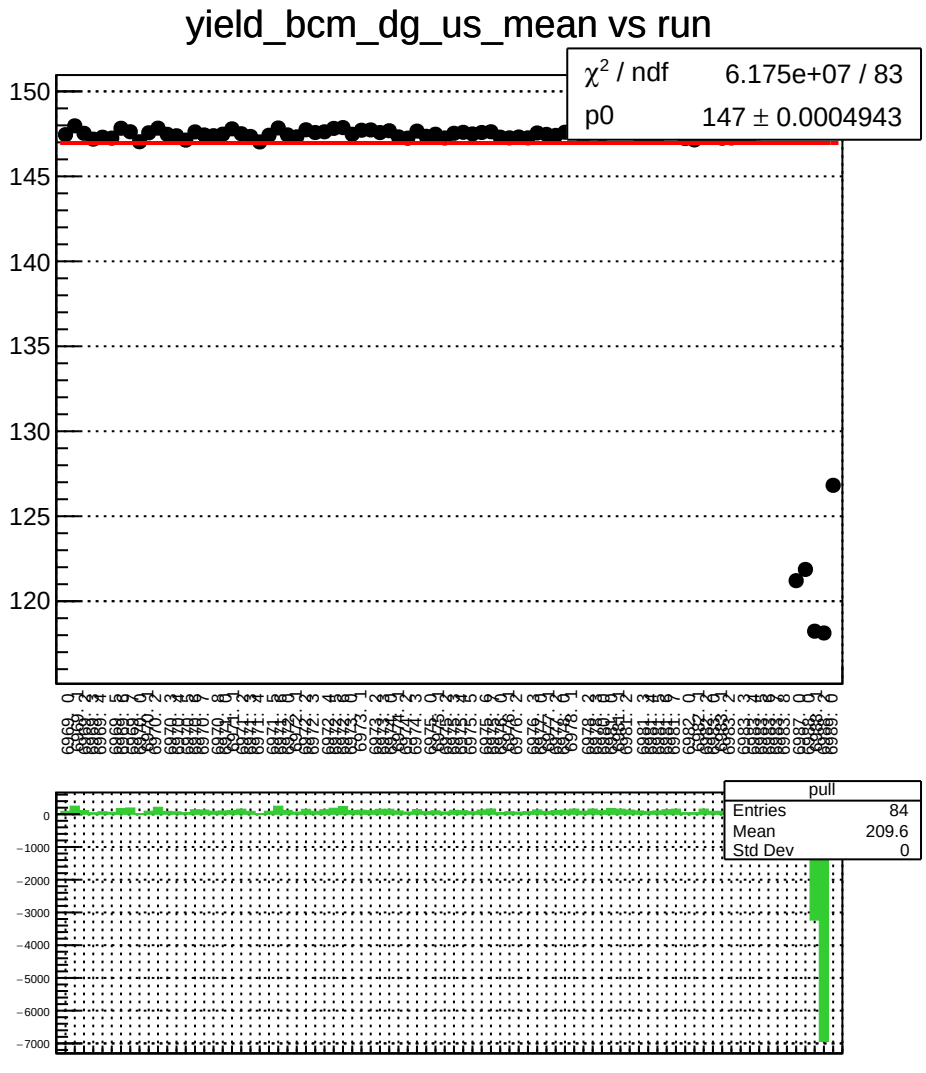

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

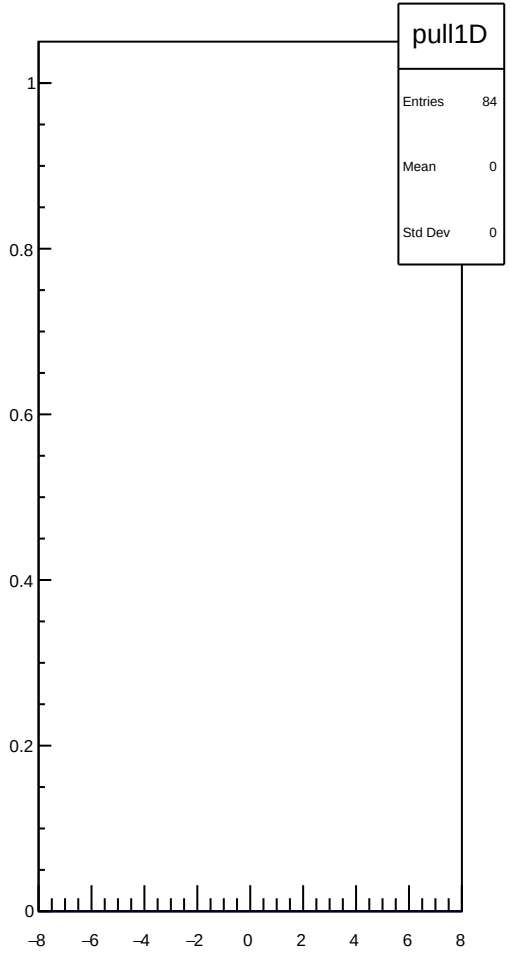

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 1.082e+05 / 83
p0 0.4393 ± 0.0003511
9
8
7
6
5
4
3
2
1

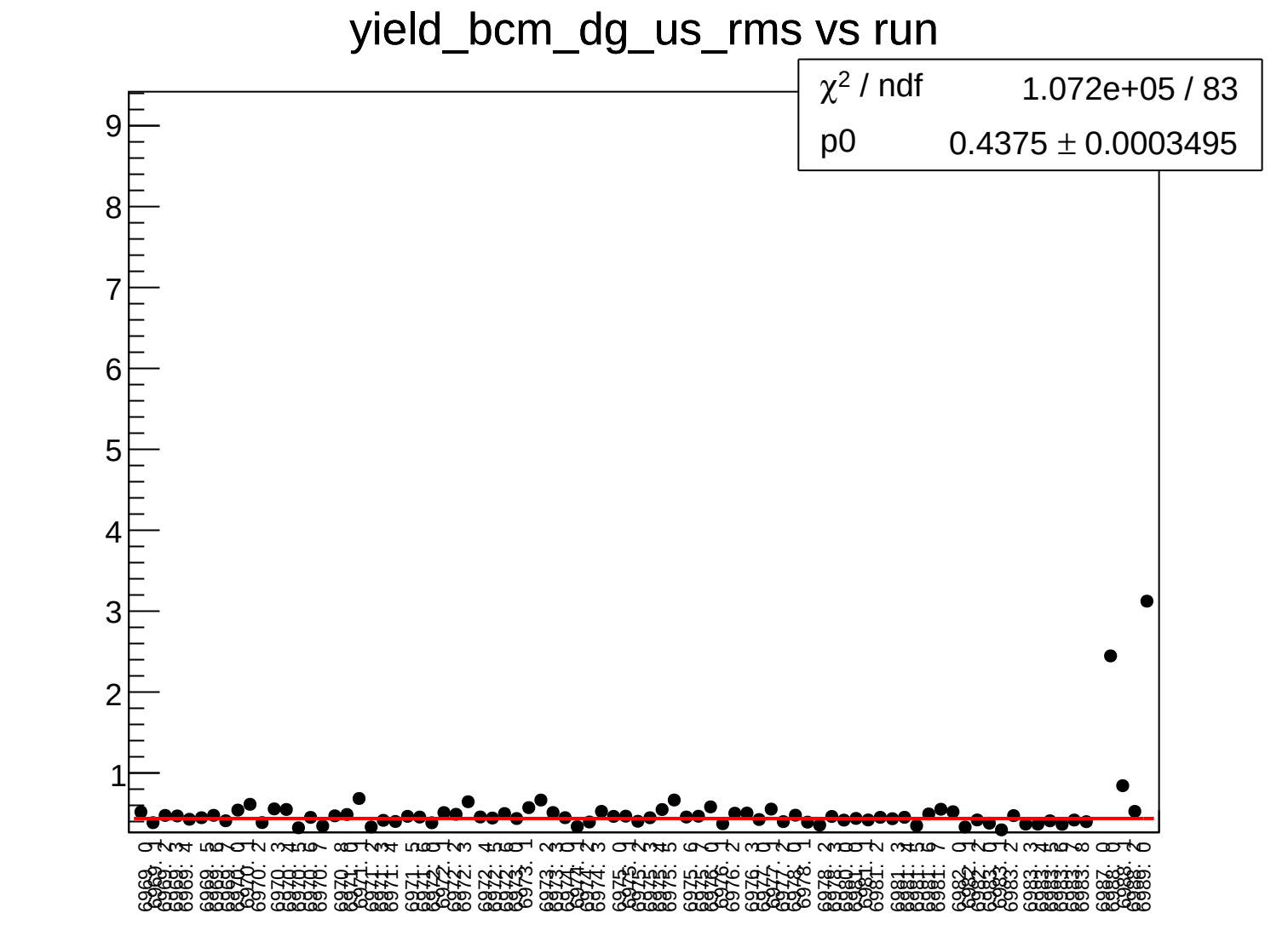

yield_bcm_an_us_mean vs run
χ² / ndf 6.18e+07 / 83
p0 148.3 ± 0.0004978
150
145
140
135
130
125
120
pull
Entries 84
Mean 213.4
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000

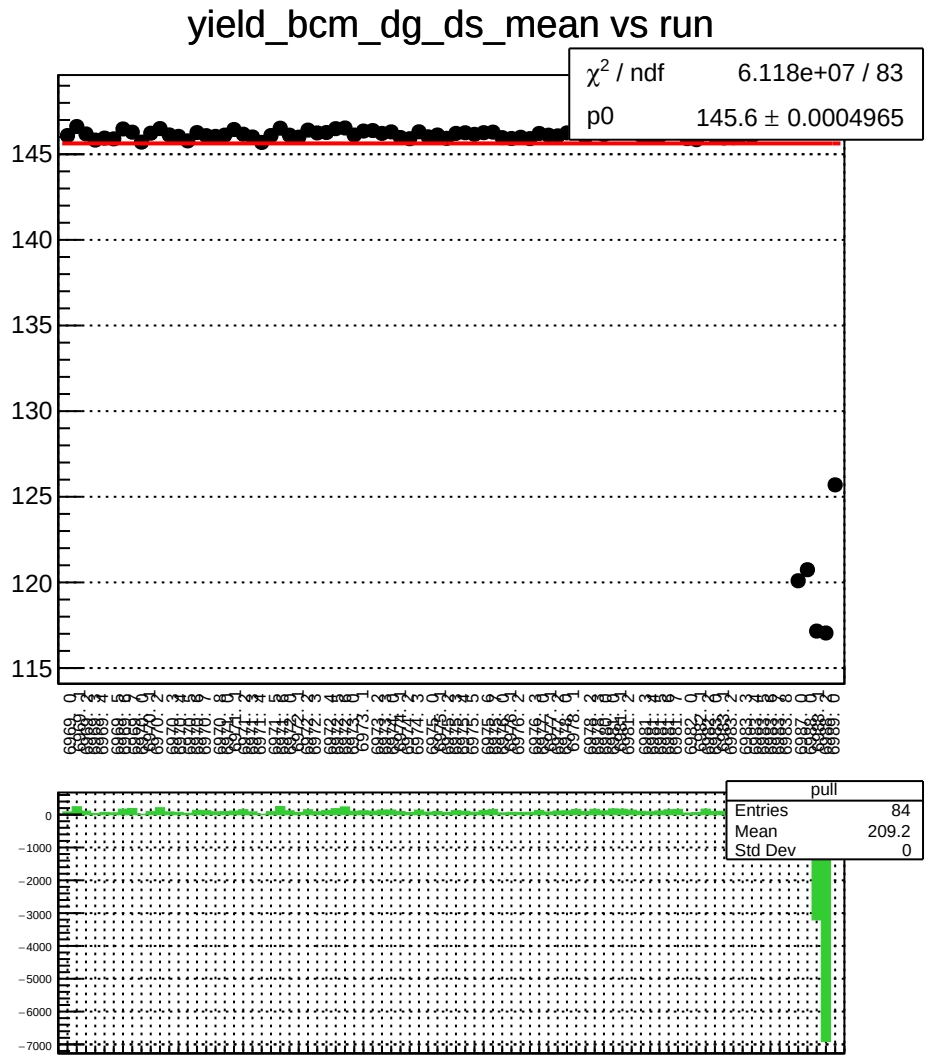

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

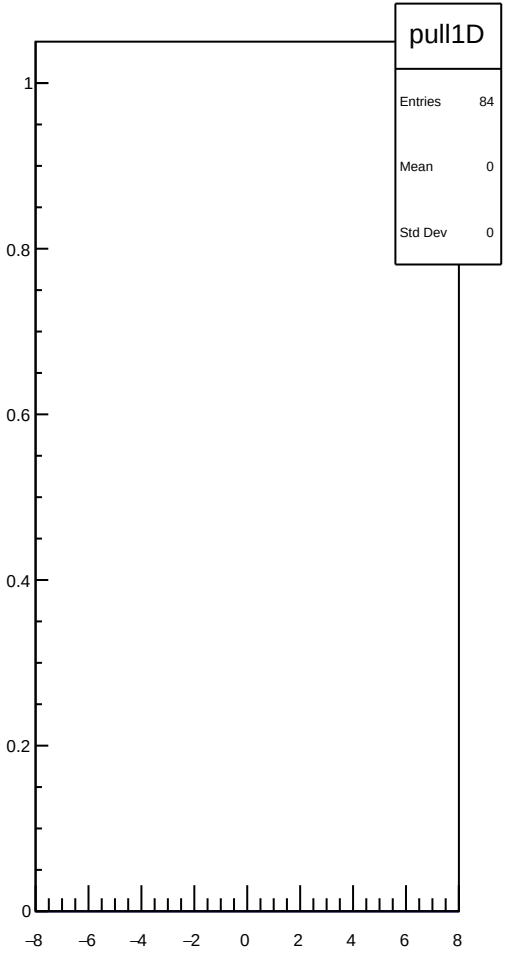

yield_bcm_an_us_rms vs run
χ² / ndf 1.079e+05 / 83
p0 0.4404 ± 0.000352
9
8
7
6
5
4
3
2
1

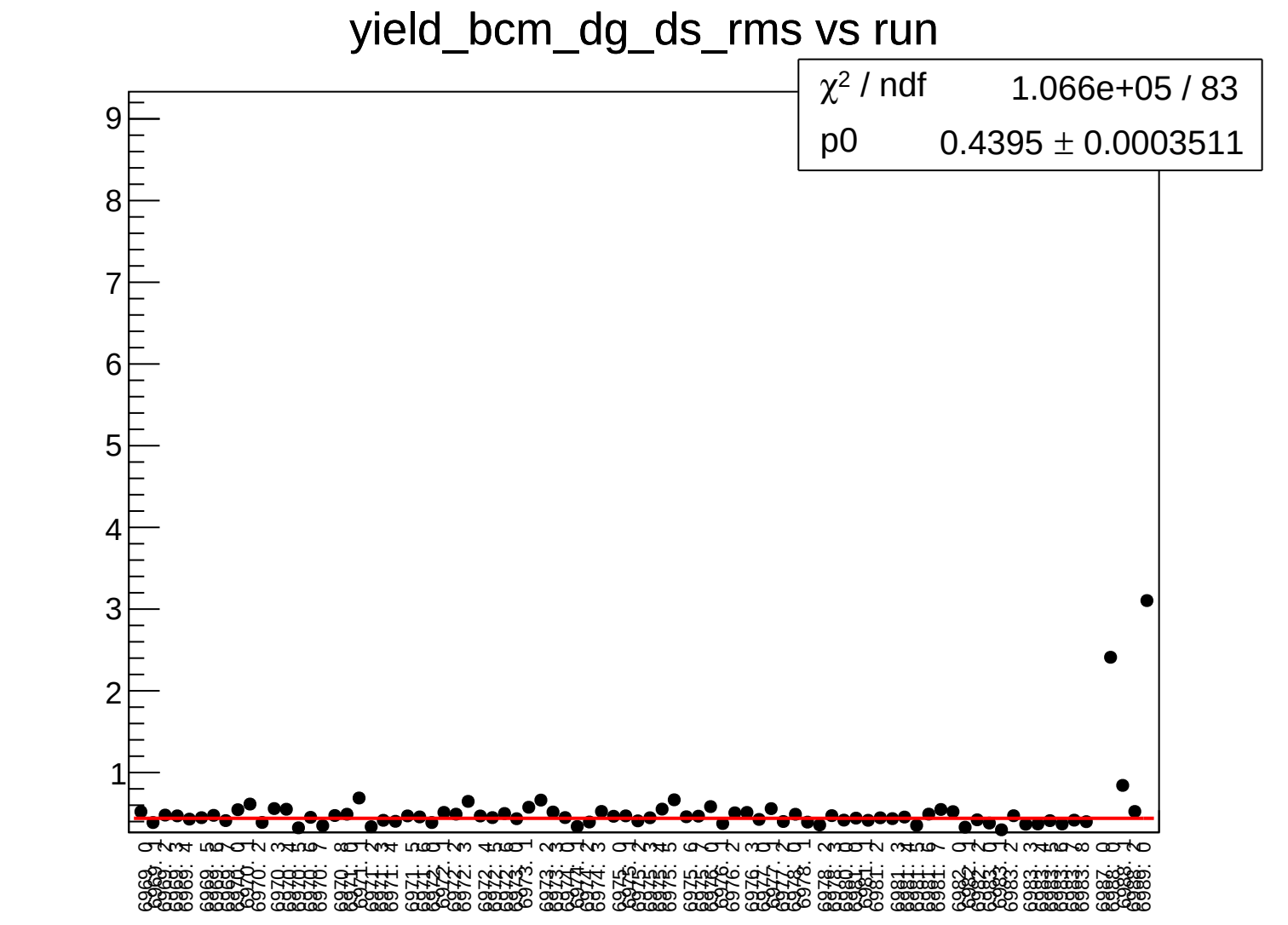

yield_bcm_dg_us_mean vs run
χ² / ndf 6.175e+07 / 83
p0 147 ± 0.0004943
150
145
140
135
130
125
120
pull
Entries 84
Mean 209.6
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000

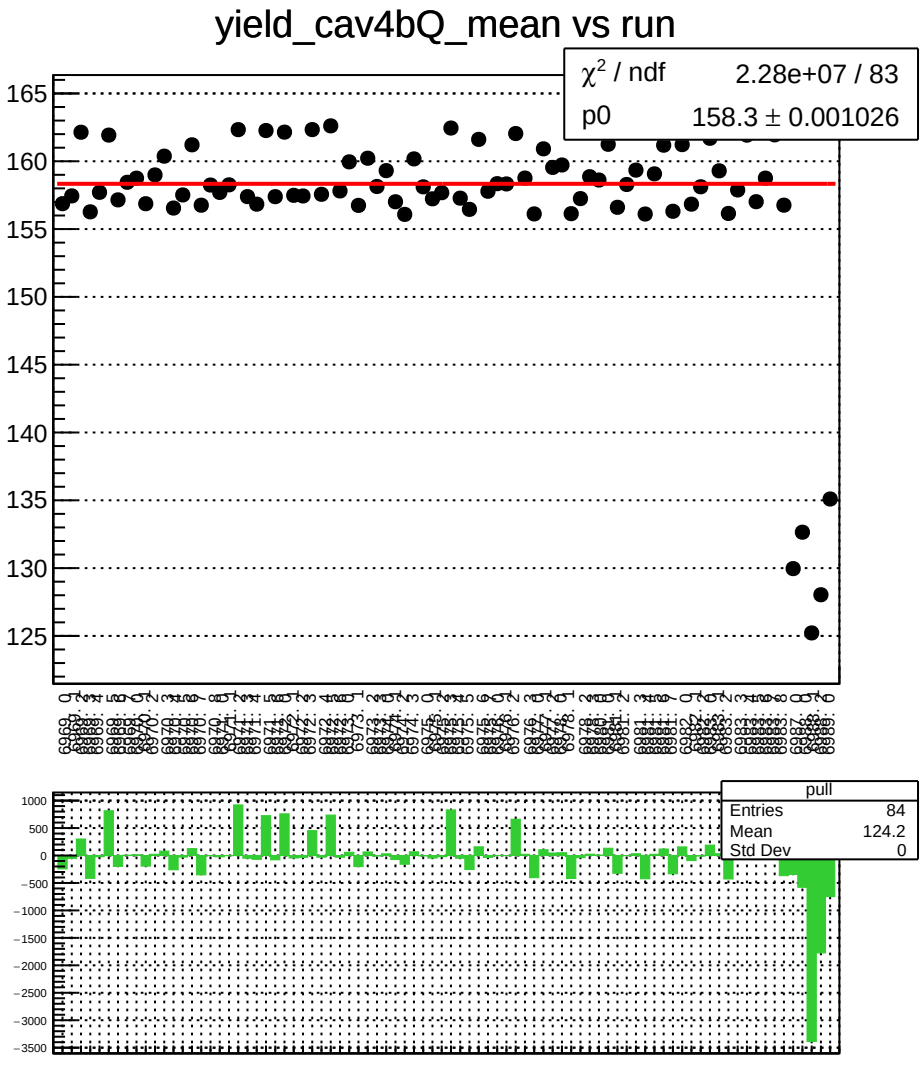

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

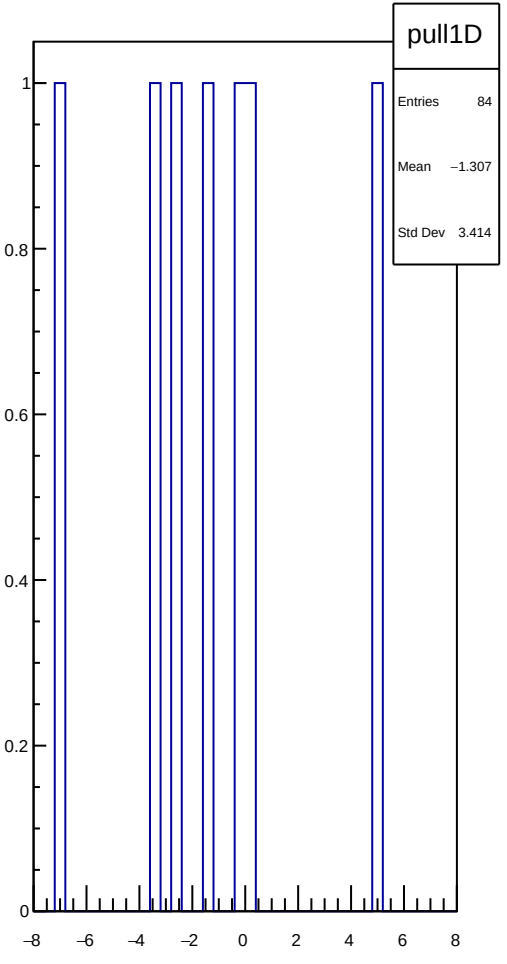

yield_bcm_dg_us_rms vs run
χ² / ndf 1.072e+05 / 83
p0 0.4375 ± 0.0003495
9
8
7
6
5
4
3
2
1

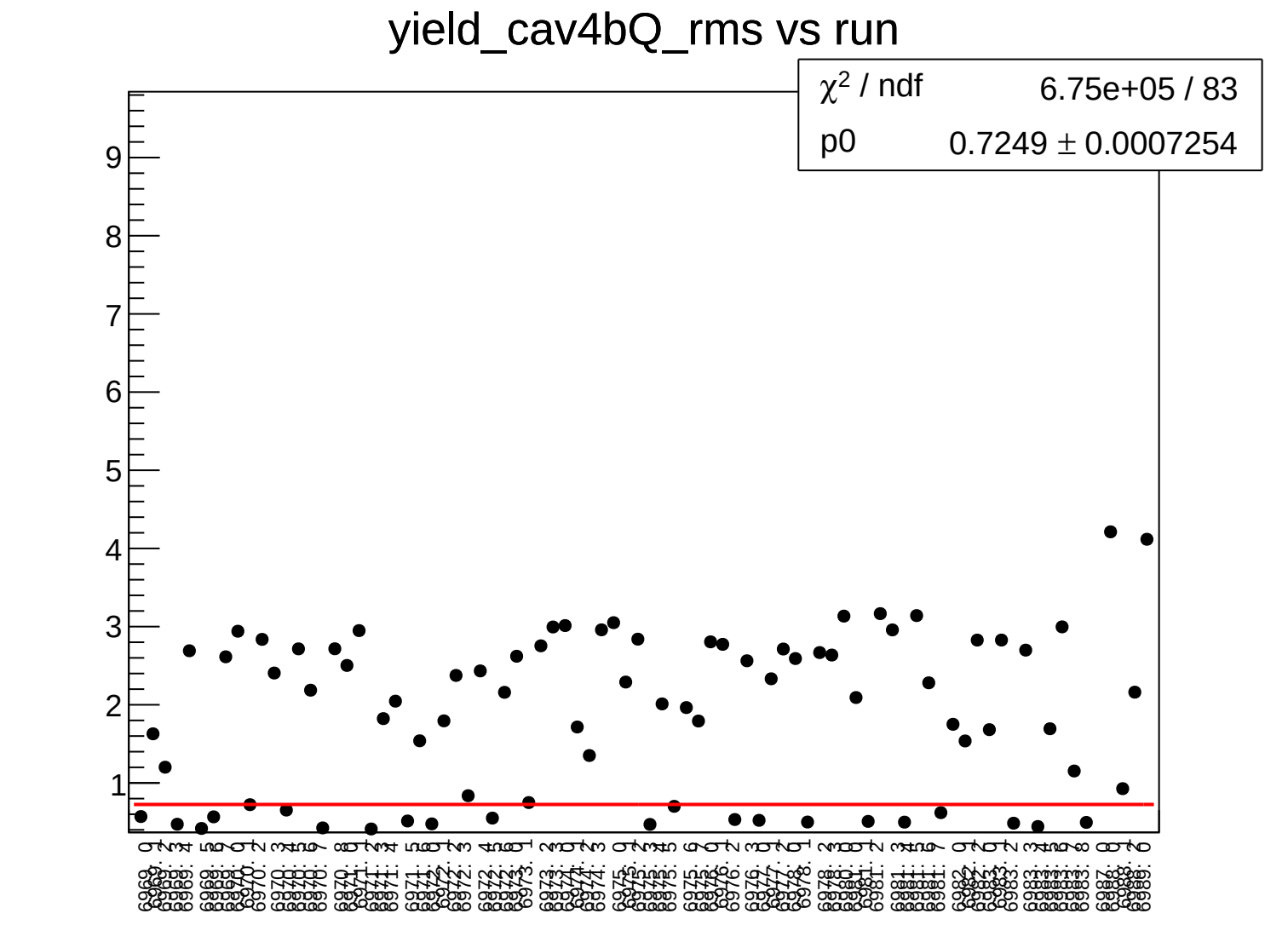

yield_bcm_dg_ds_mean vs run
χ² / ndf 6.118e+07 / 83
p0 145.6 ± 0.0004965
145
140
135
130
125
120
115
pull
Entries 84
Mean 209.2
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000

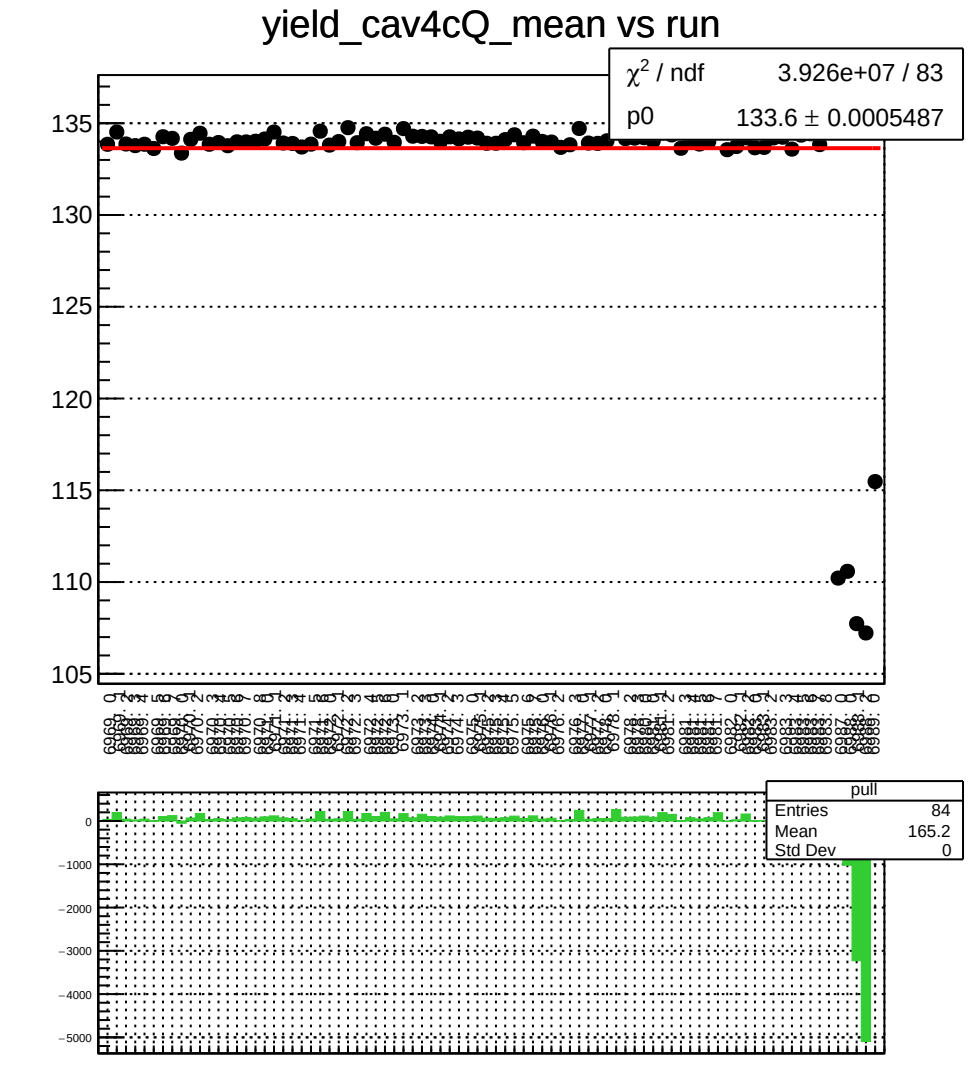

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

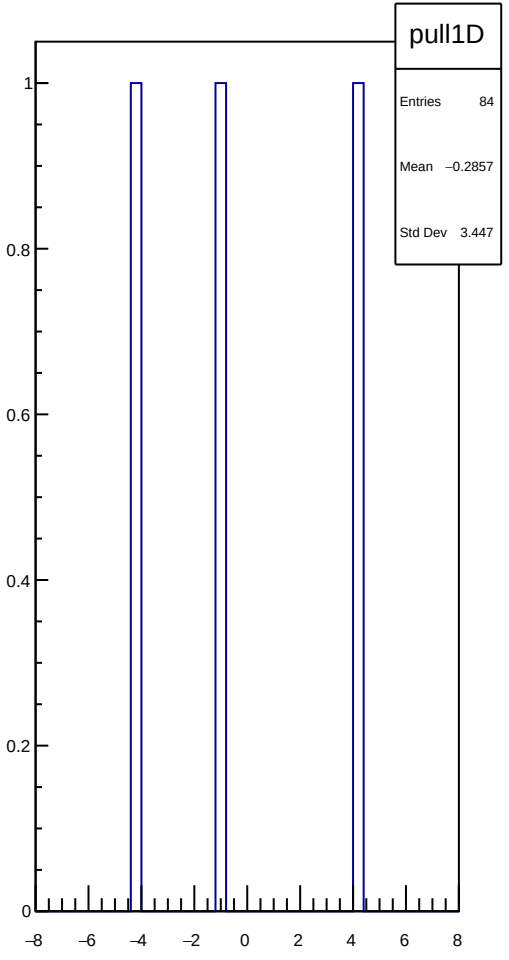

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.066e+05 / 83
p0 0.4395 ± 0.0003511
9
8
7
6
5
4
3
2
1

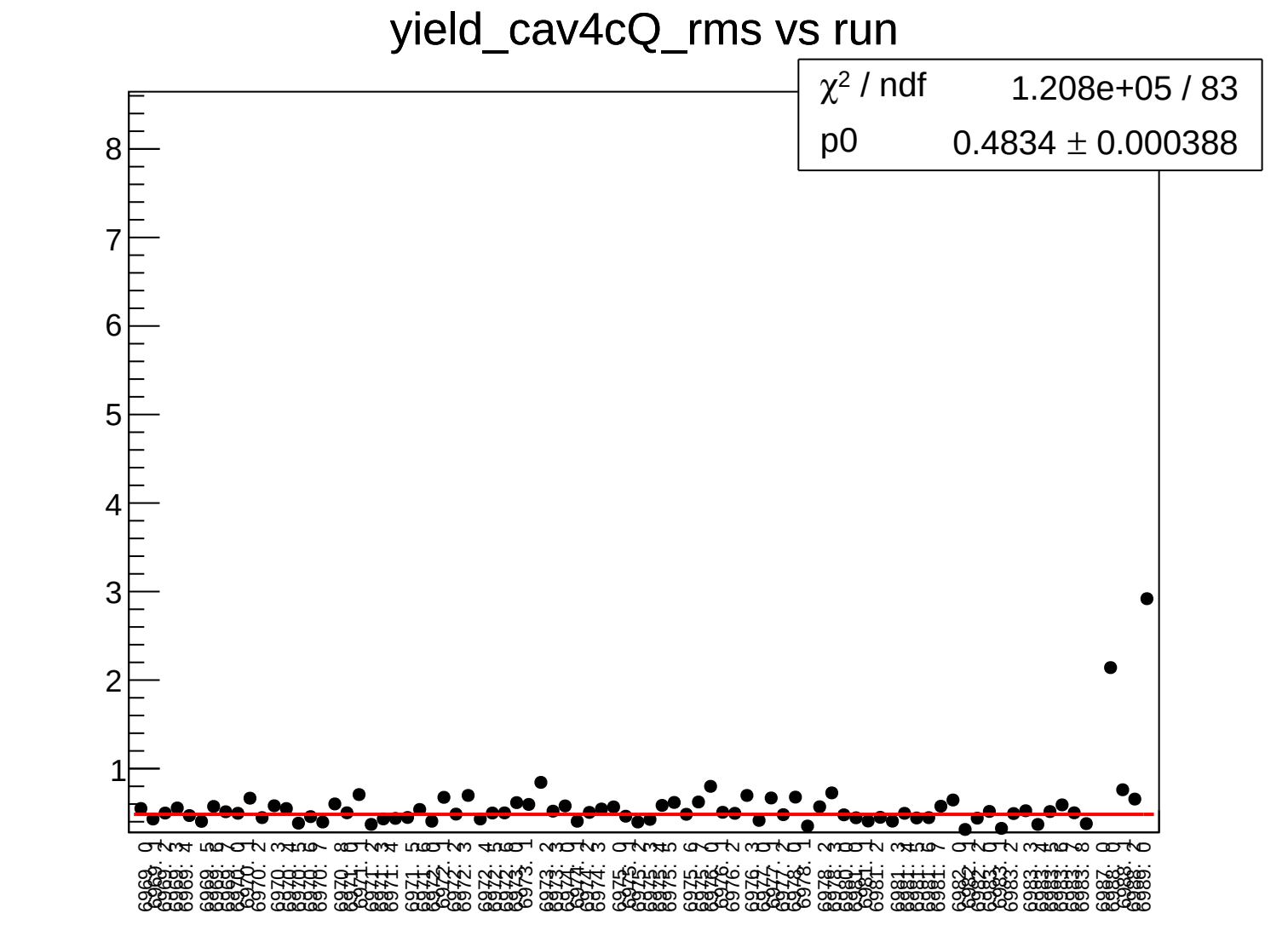

yield_cav4bQ_mean vs run
χ² / ndf 2.28e+07 / 83
p0 158.3 ± 0.001026
165
160
155
150
145
140
135
130
125
pull
Entries 84
Mean 124.2
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

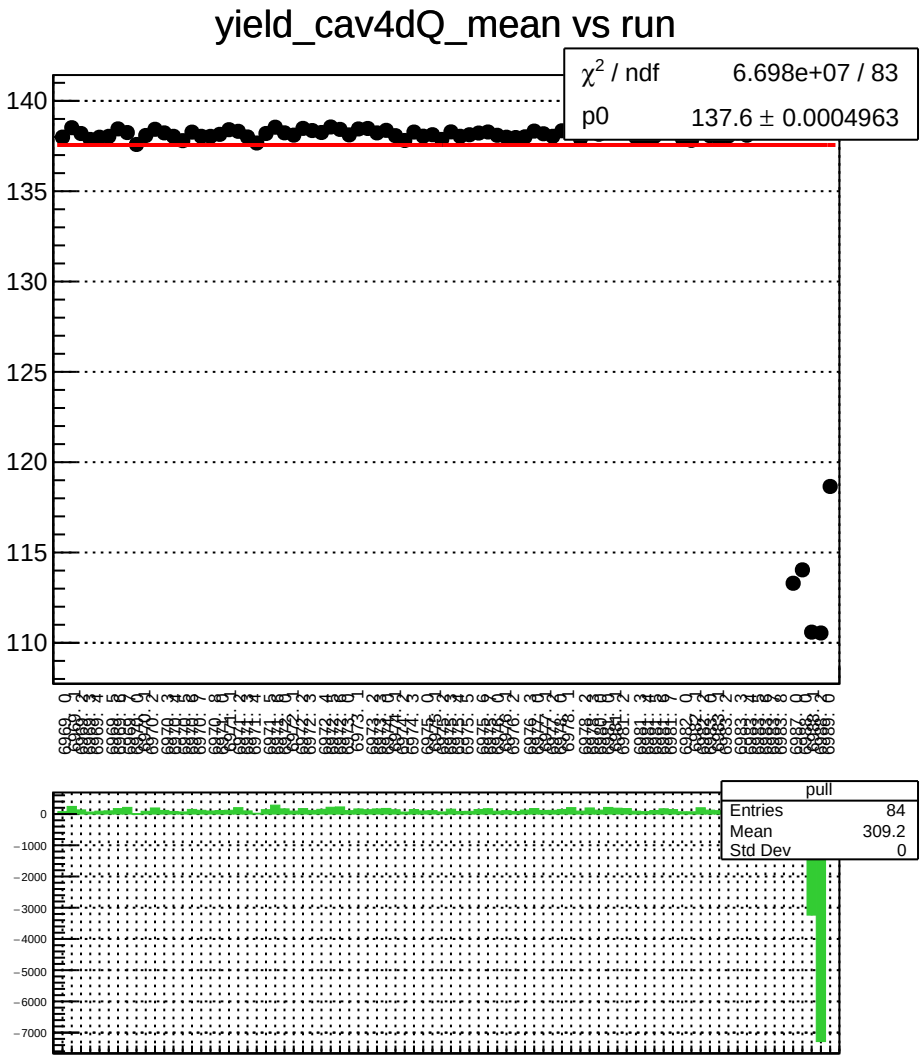

pull1D
Entries 84
Mean −1.307
Std Dev 3.414
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

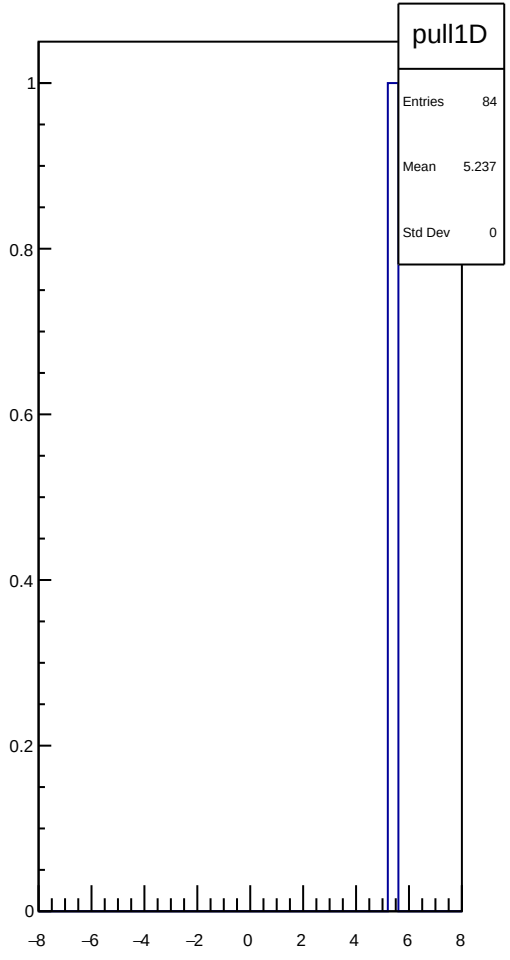

yield_cav4bQ_rms vs run
χ^2 / ndf 6.75e+05 / 83
p0 0.7249 ± 0.0007254
9
8
7
6
5
4
3
2
1

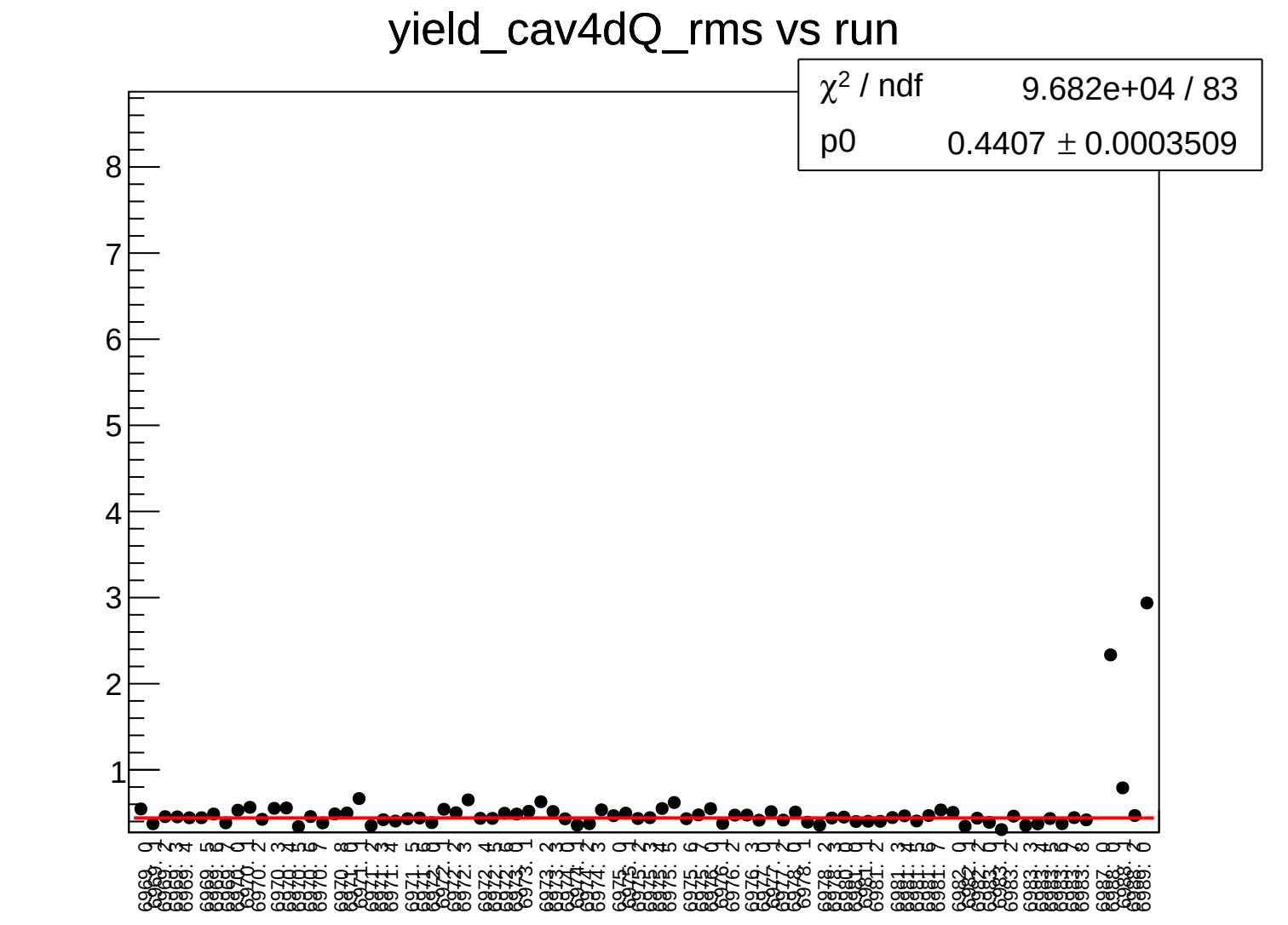

yield_cav4cQ_mean vs run
χ² / ndf 3.926e+07 / 83
p0 133.6 ± 0.0005487
135
130
125
120
115
110
105
pull
Entries 84
Mean 165.2
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000

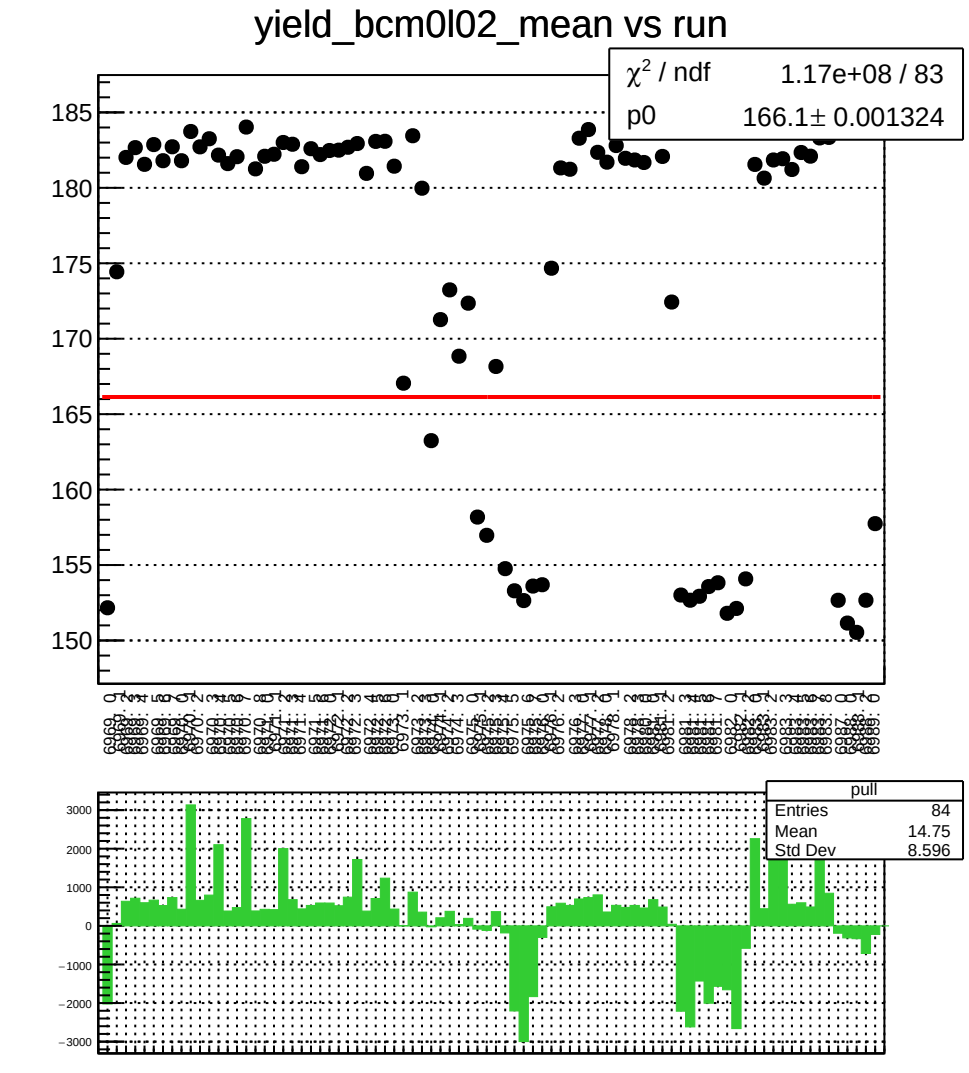

pull1D
Entries 84
Mean −0.2857
Std Dev 3.447
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

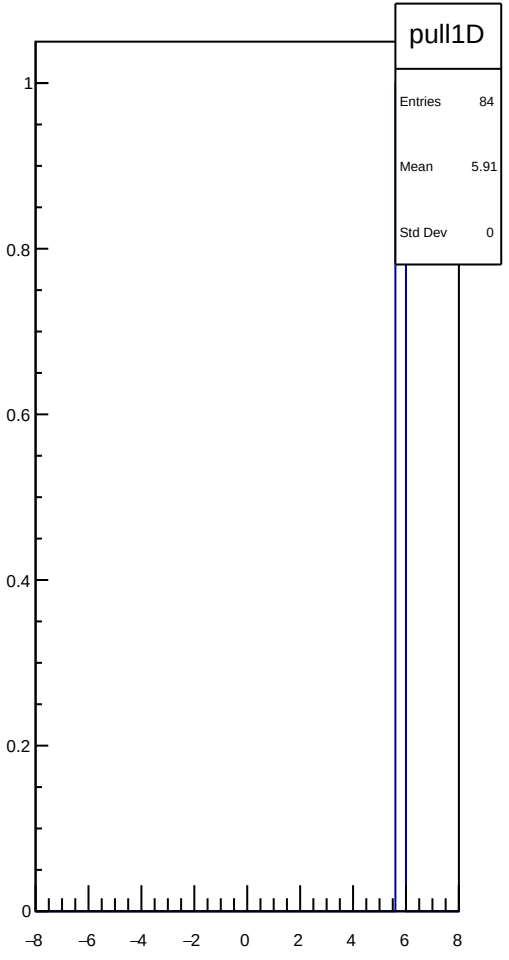

yield_cav4cQ_rms vs run
χ² / ndf 1.208e+05 / 83
p0 0.4834 ± 0.000388
8
7
6
5
4
3
2
1

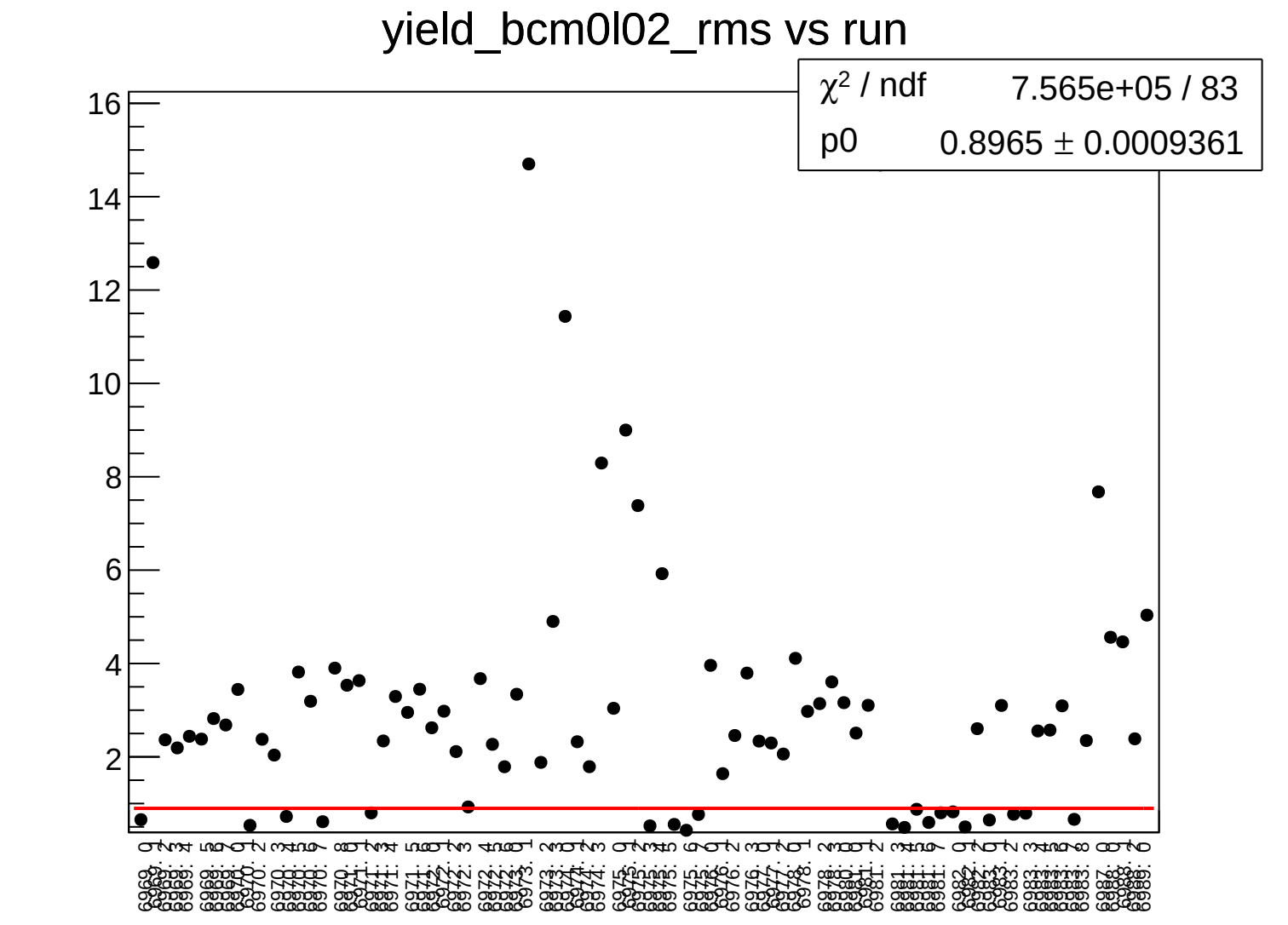

yield_cav4dQ_mean vs run
χ² / ndf 6.698e+07 / 83
p0 137.6 ± 0.0004963
140
135
130
125
120
115
110
pull
Entries 84
Mean 309.2
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000

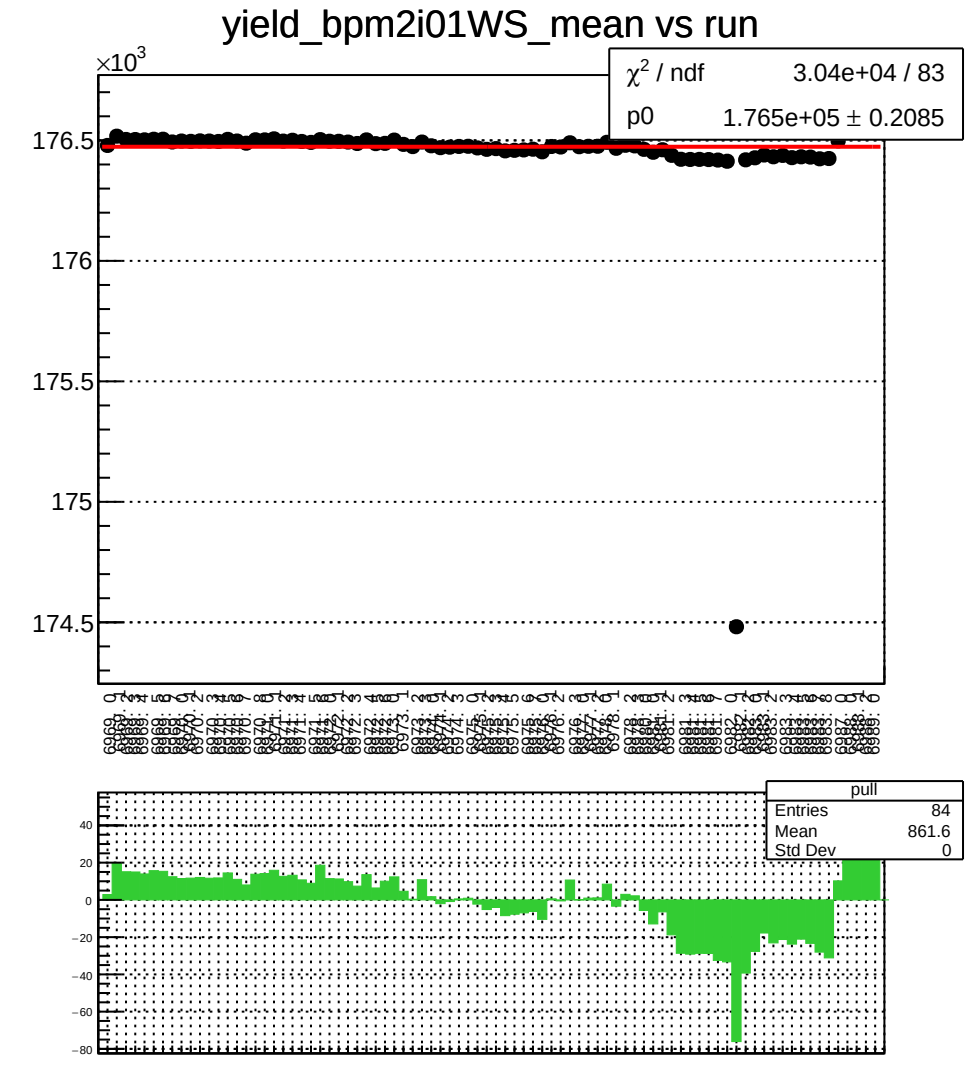

pull1D
Entries 84
Mean 5.237
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

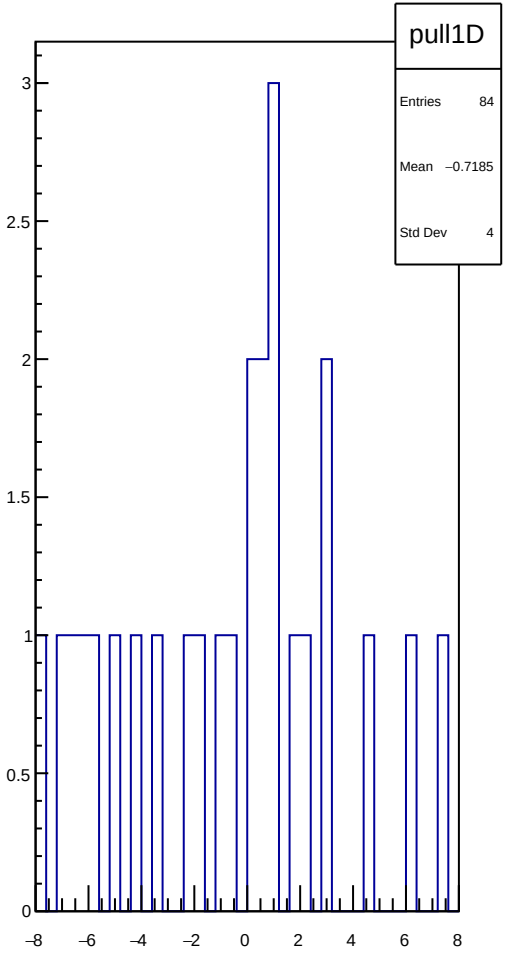

yield_cav4dQ_rms vs run
χ² / ndf 9.682e+04 / 83
p0 0.4407 ± 0.0003509
8
7
6
5
4
3
2
1

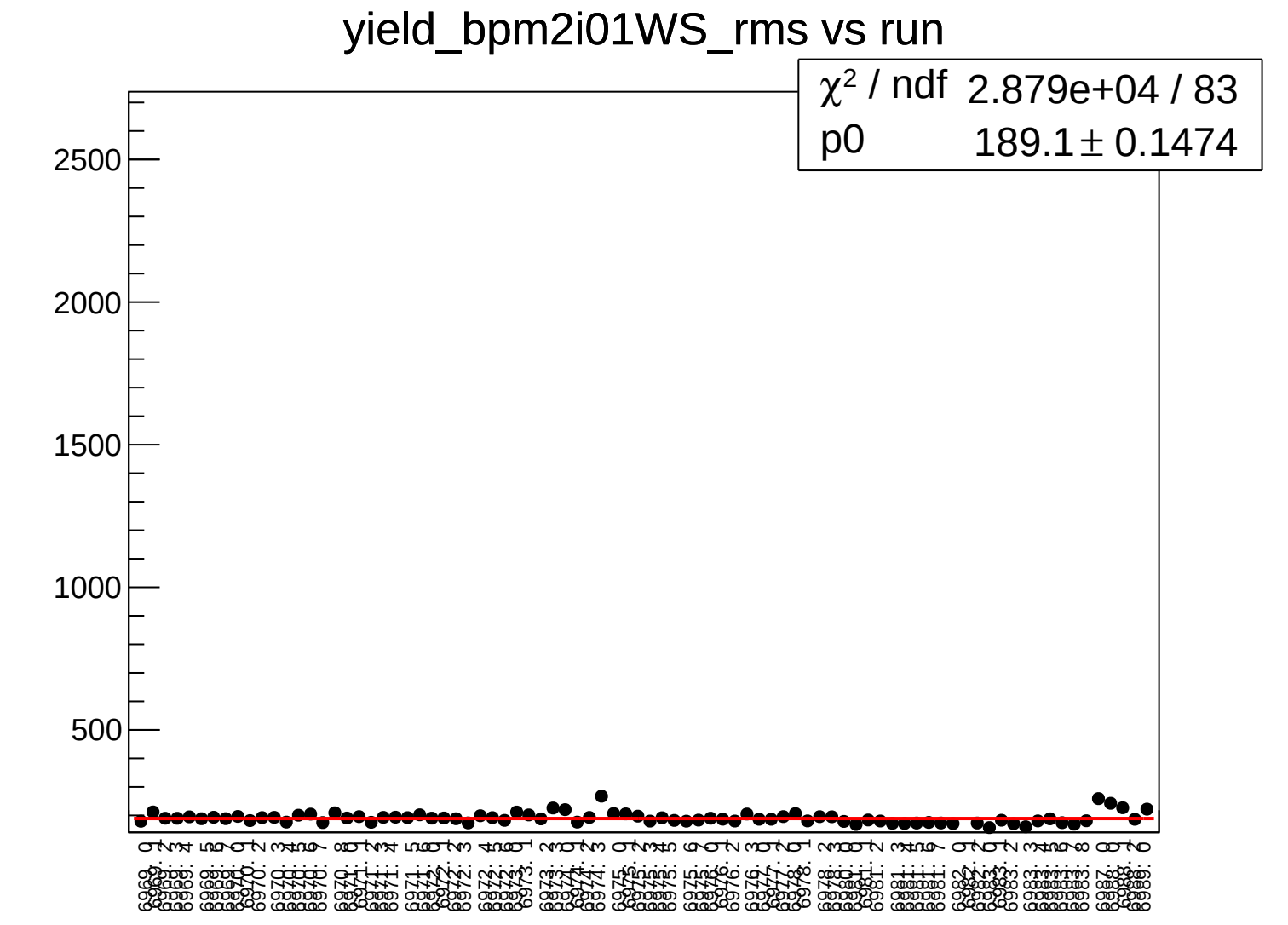

yield_bcm0l02_mean vs run
χ² / ndf 1.17e+08 / 83
p0 166.1± 0.001324
185
180
175
170
165
160
155
150
pull
Entries 84
Mean 14.75
Std Dev 8.596
3000
2000
1000
0
−1000
−2000
−3000

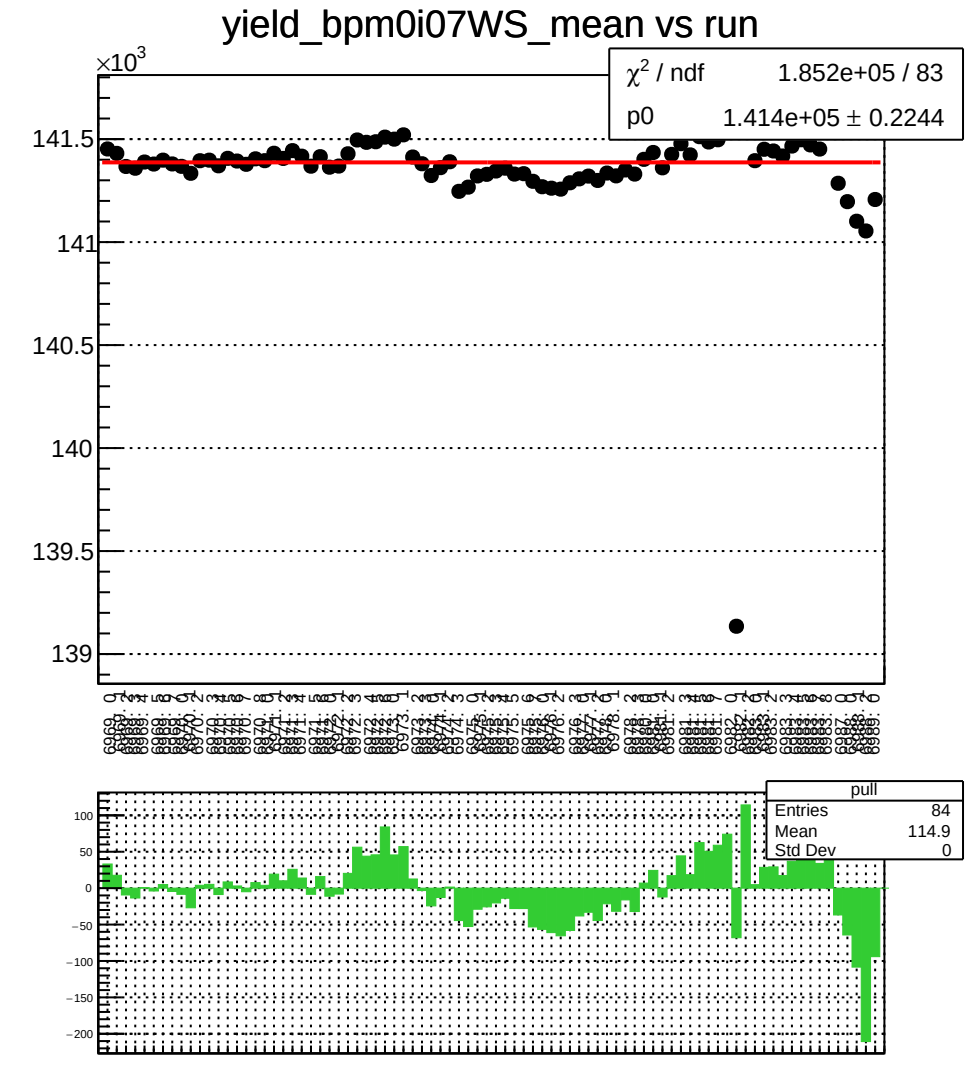

pull1D
Entries 84
Mean 5.91
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

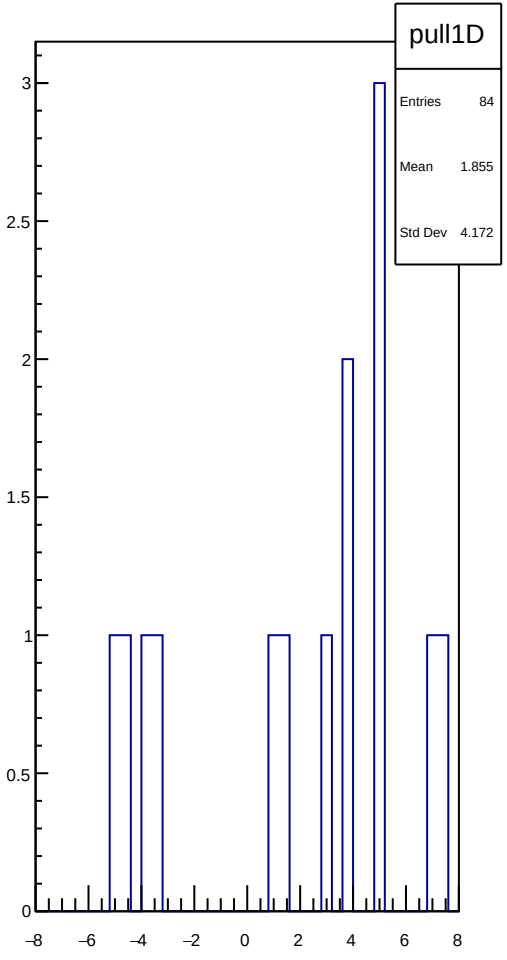

yield_bcm0l02_rms vs run
χ² / ndf 7.565e+05 / 83
p0 0.8965 ± 0.0009361
16
14
12
10
8
6
4
2

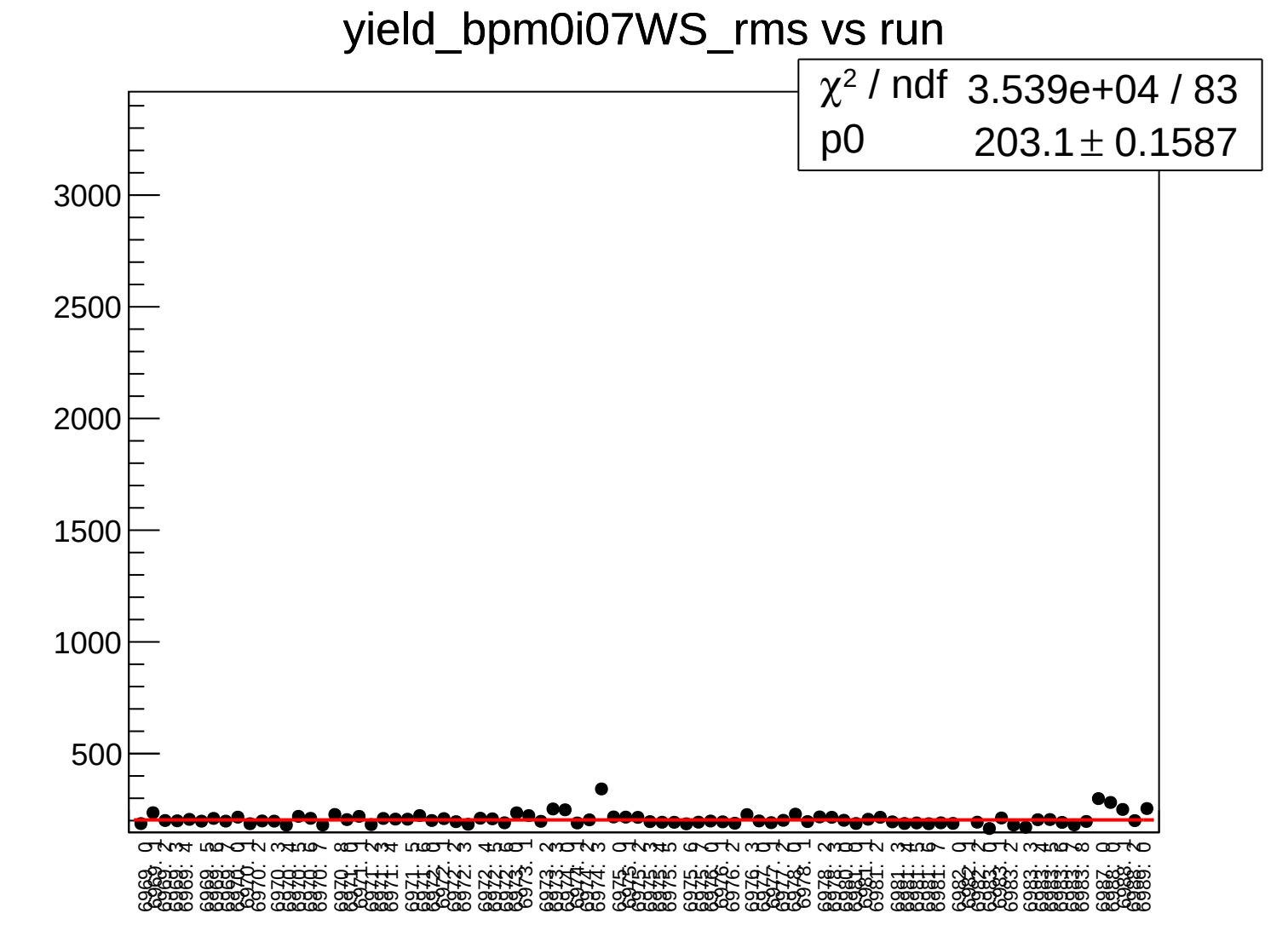

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.04e+04 / 83
p0 1.765e+05 ± 0.2085
176.5
176
175.5
175
174.5
pull
Entries 84
Mean 861.6
Std Dev 0
40
20
0
−20
−40
−60
−80

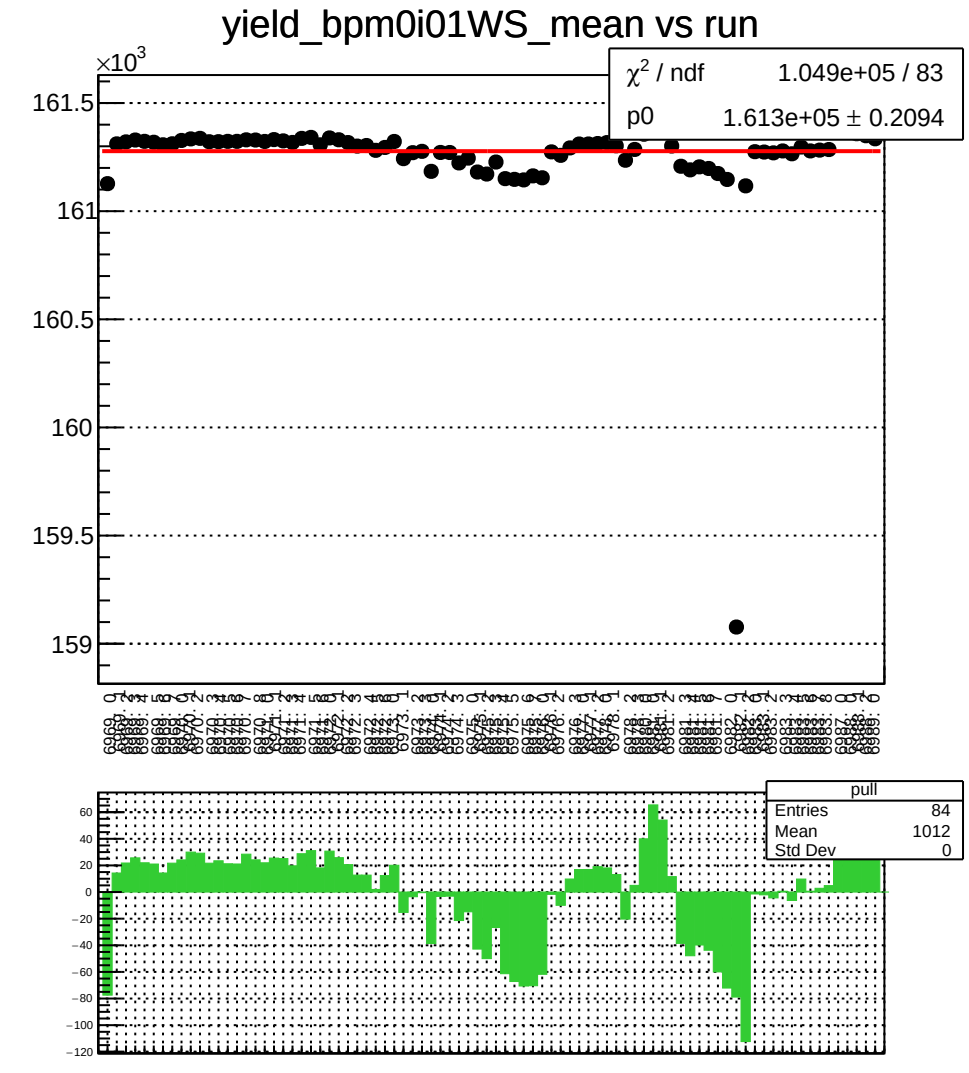

pull1D
Entries 84
Mean −0.7185
Std Dev 4
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

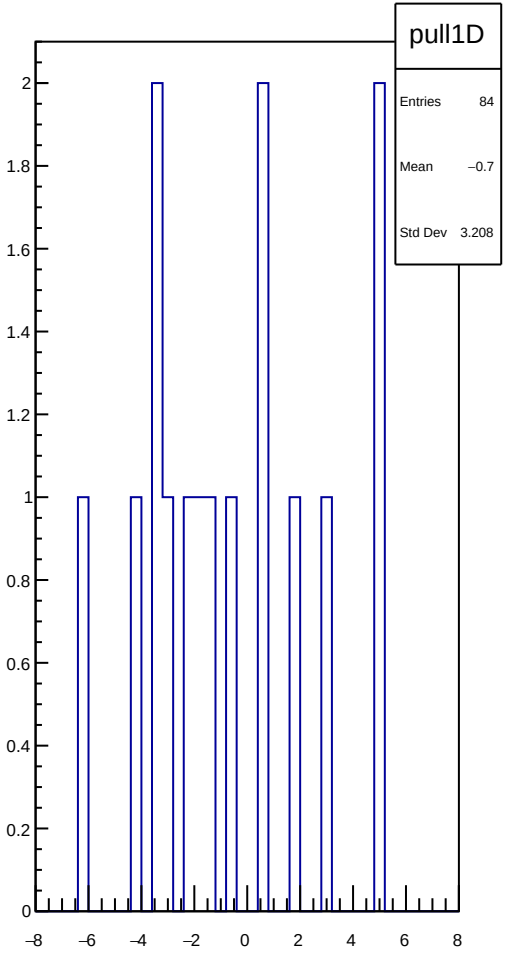

yield_bpm2i01WS_rms vs run
χ² / ndf 2.879e+04 / 83
p0 189.1 ± 0.1474
2500
2000
1500
1000
500

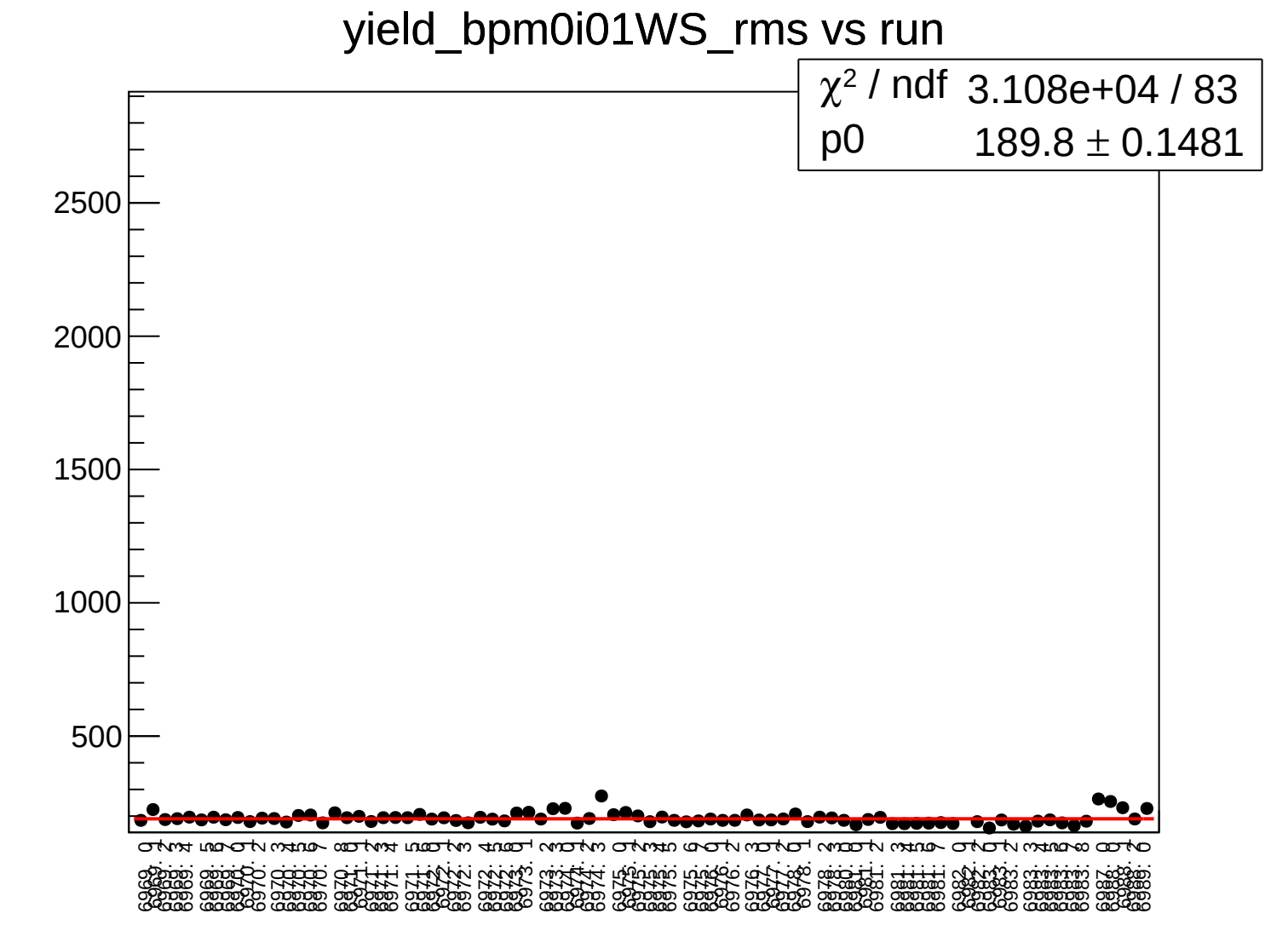

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.852e+05 / 83
p0 1.414e+05 ± 0.2244
141.5
141
140.5
140
139.5
139
pull
Entries 84
Mean 114.9
Std Dev 0
100
50
0
−50
−100
−150
−200

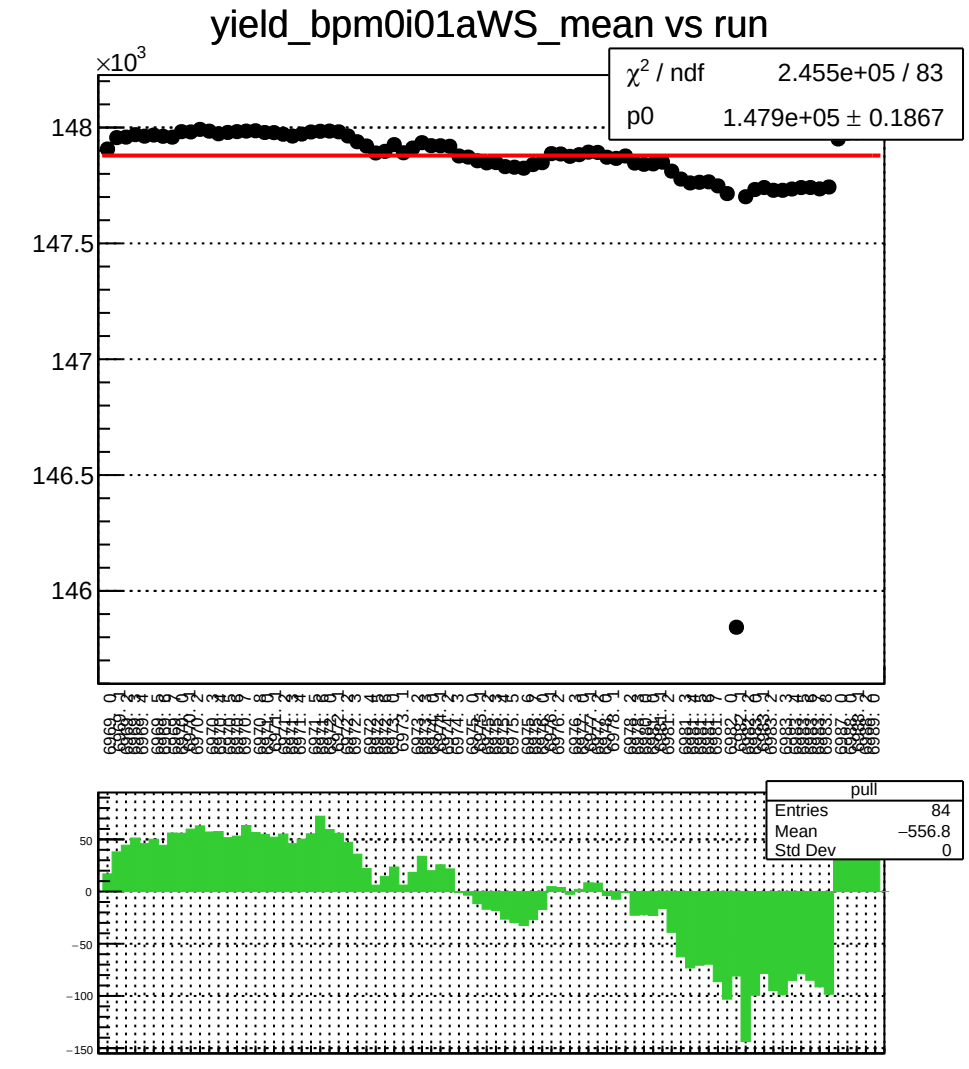

pull1D
Entries 84
Mean 1.855
Std Dev 4.172
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

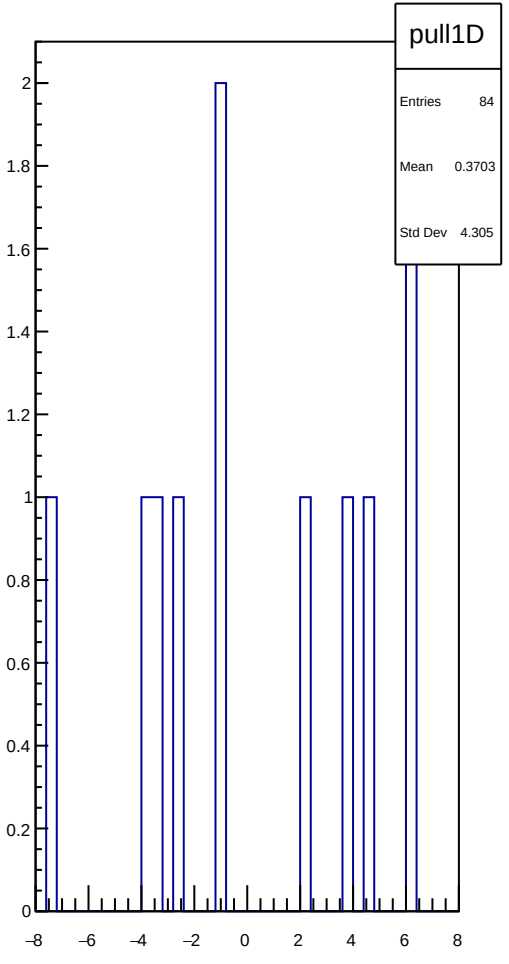

yield_bpm0i07WS_rms vs run
χ² / ndf 3.539e+04 / 83
p0 203.1 ± 0.1587
3000
2500
2000
1500
1000
500

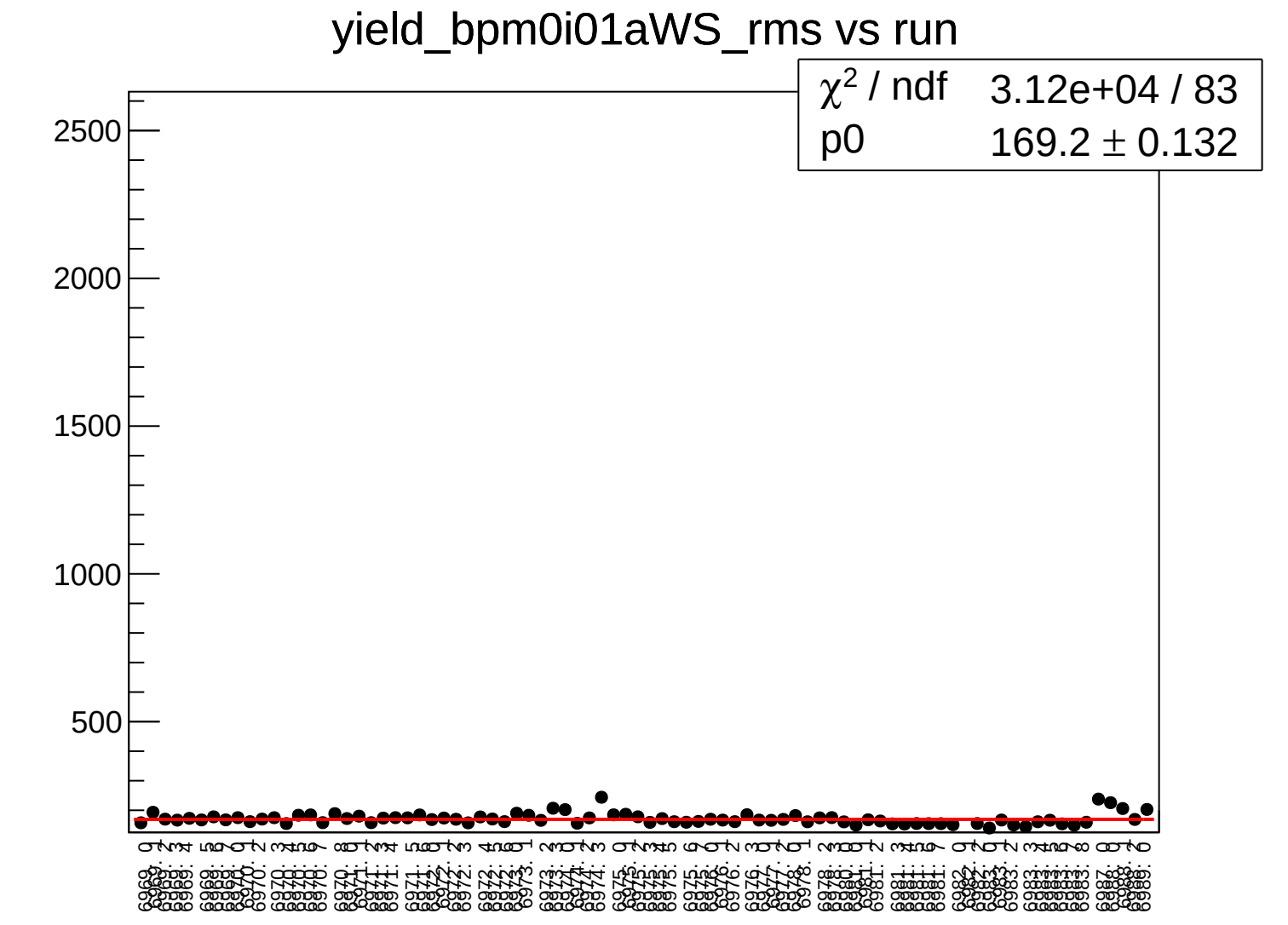

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.049e+05 / 83
p0 1.613e+05 ± 0.2094
161.5
161
160.5
160
159.5
159
pull
Entries 84
Mean 1012
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120

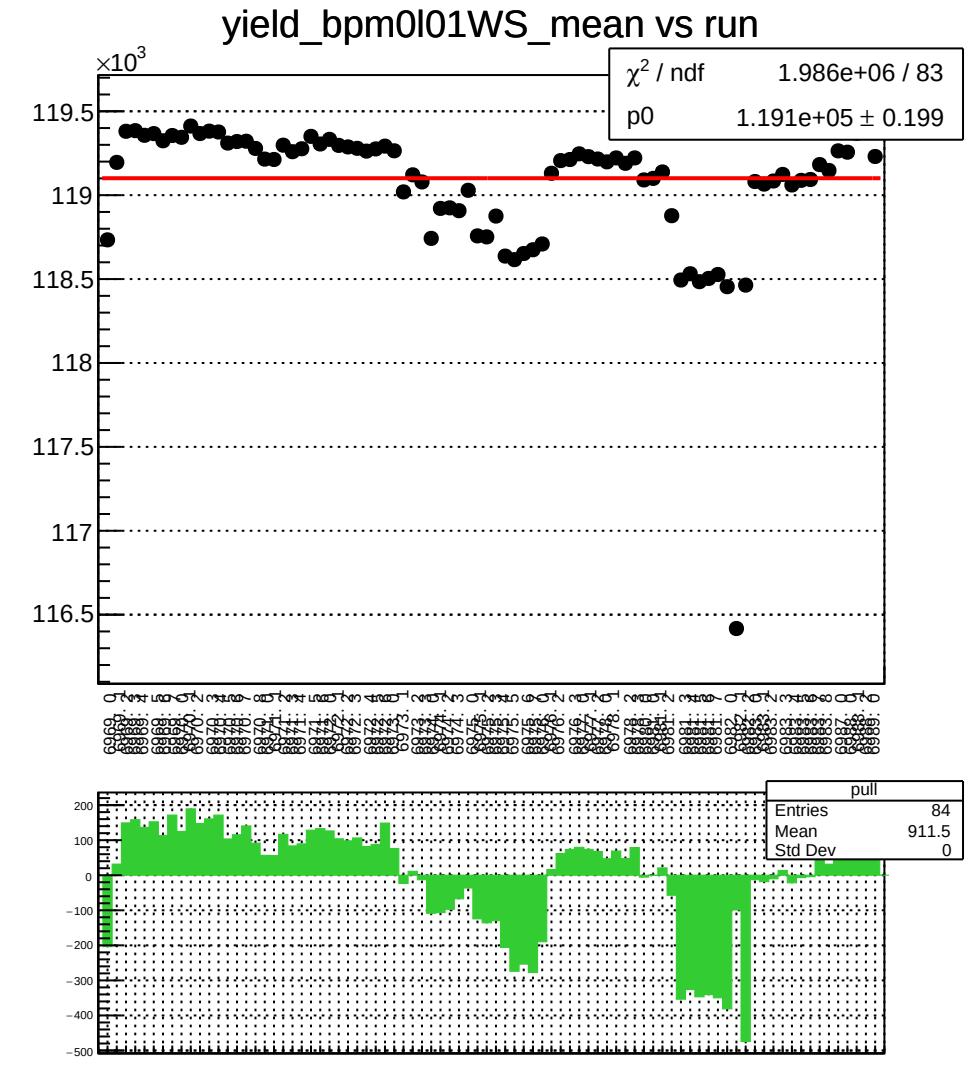

pull1D
Entries 84
Mean −0.7
Std Dev 3.208
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

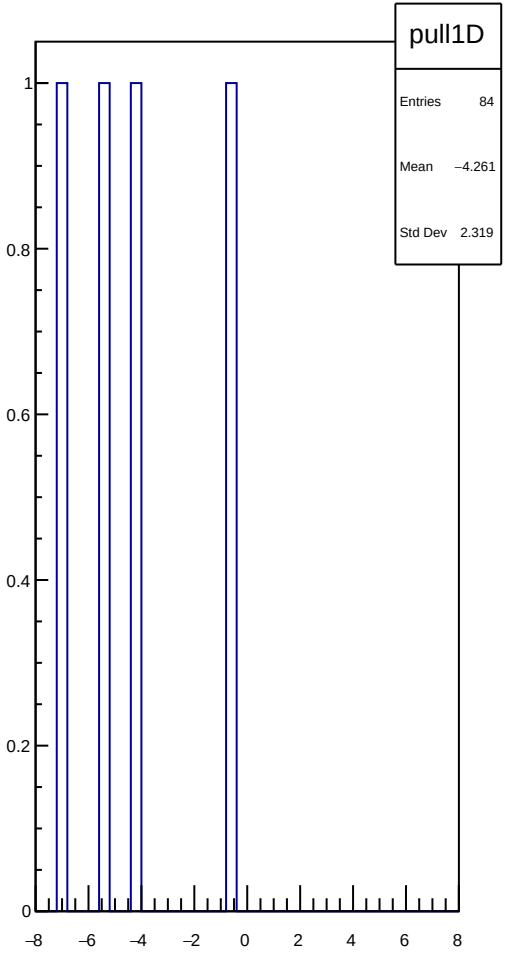

yield_bpm0i01WS_rms vs run
χ² / ndf 3.108e+04 / 83
p0 189.8 ± 0.1481
2500
2000
1500
1000
500

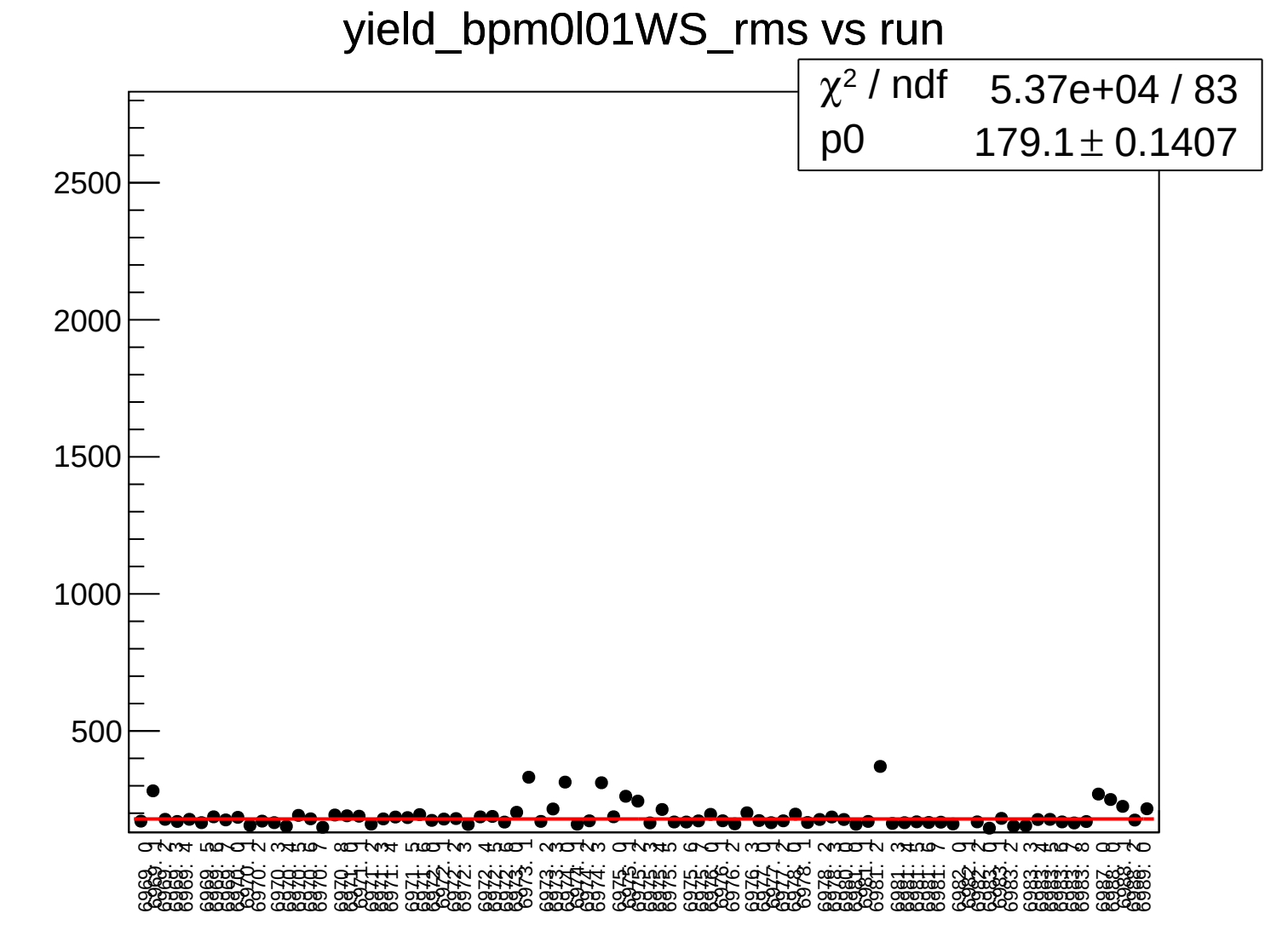

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 2.455e+05 / 83
p0 1.479e+05 ± 0.1867
148
147.5
147
146.5
146
pull
Entries 84
Mean −556.8
Std Dev 0
50
0
−50
−100
−150

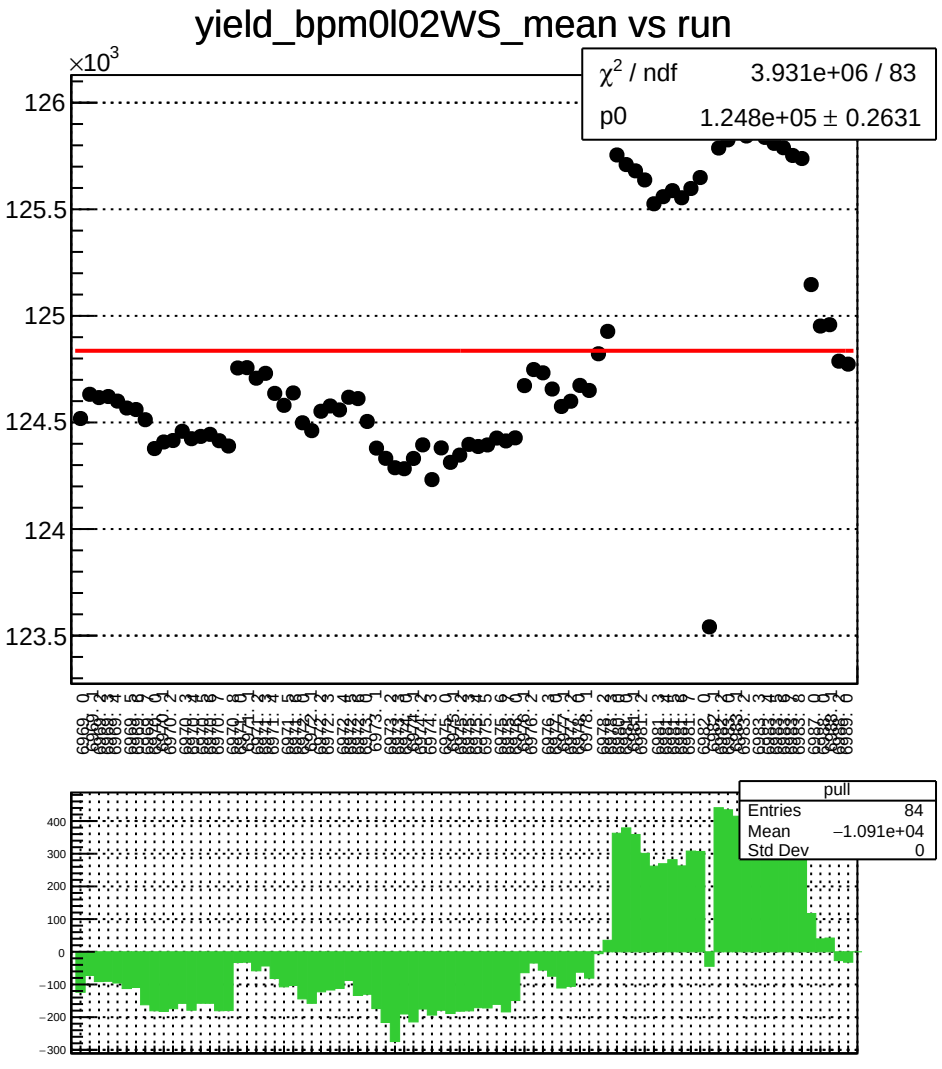

pull1D
Entries 84
Mean 0.3703
Std Dev 4.305
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

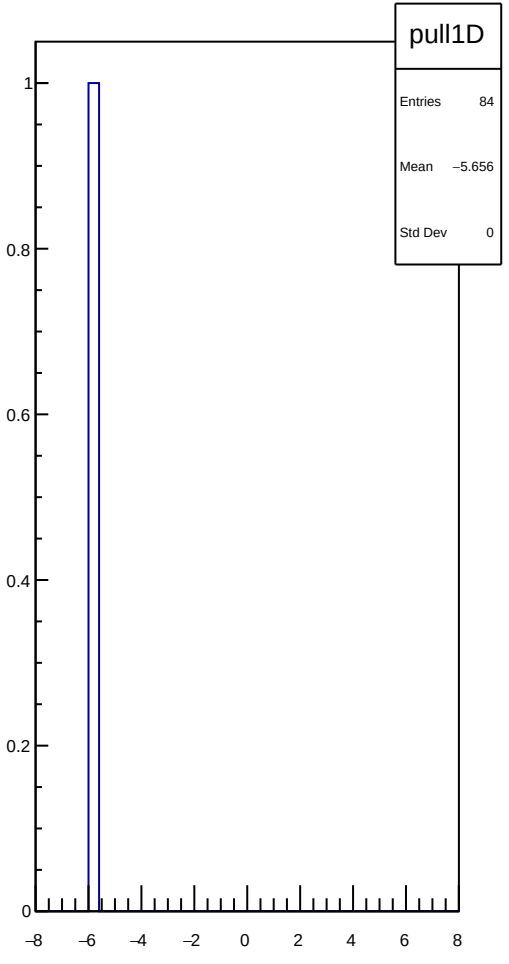

yield_bpm0i01aWS_rms vs run
χ^2 / ndf 3.12e+04 / 83
p0 169.2 ± 0.132
2500
2000
1500
1000
500

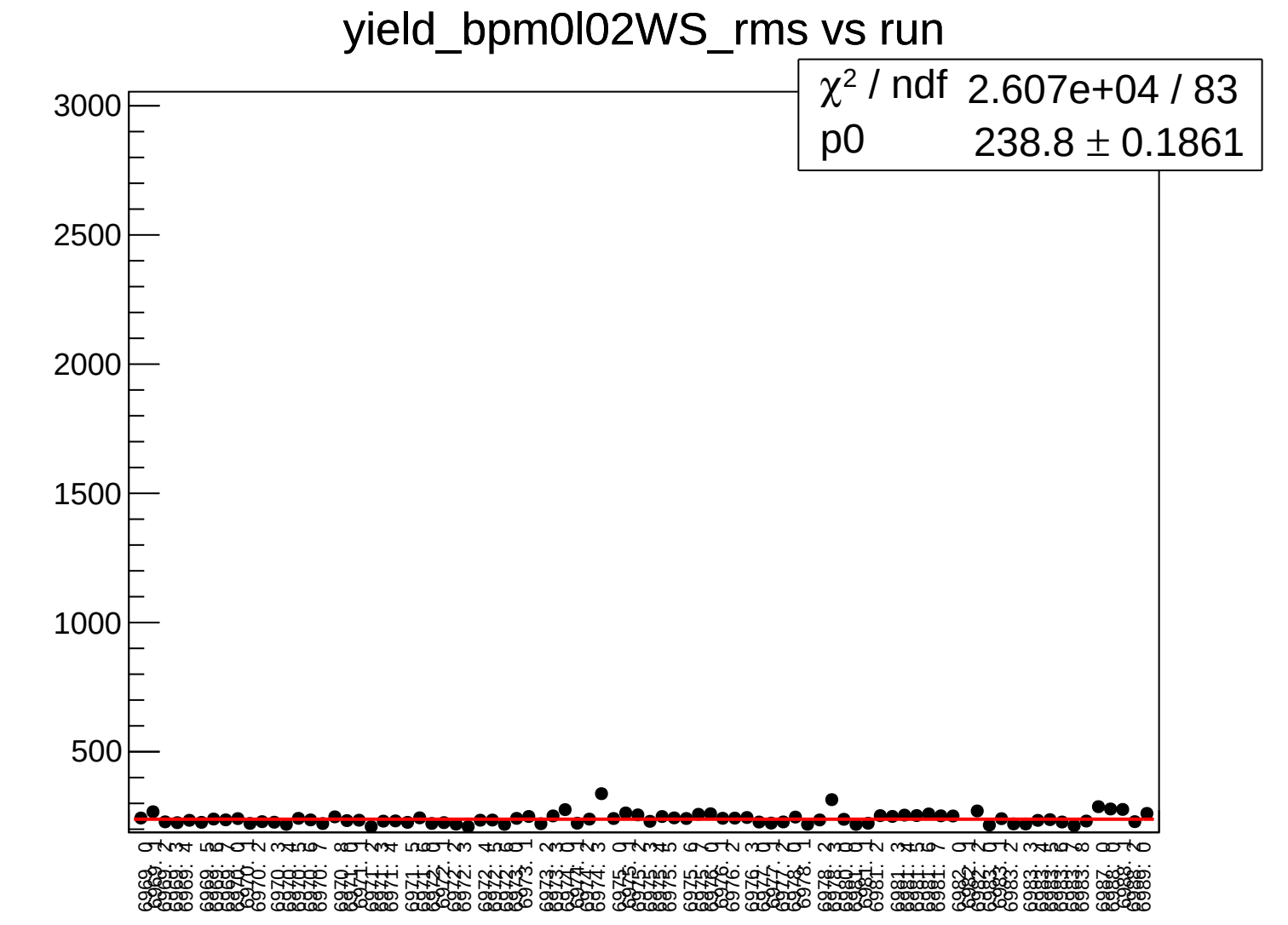

yield_bpm0l01WS_mean vs run
χ² / ndf 1.986e+06 / 83
p0 1.191e+05 ± 0.199
×10³
119.5
119
118.5
118
117.5
117
116.5
pull
Entries 84
Mean 911.5
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

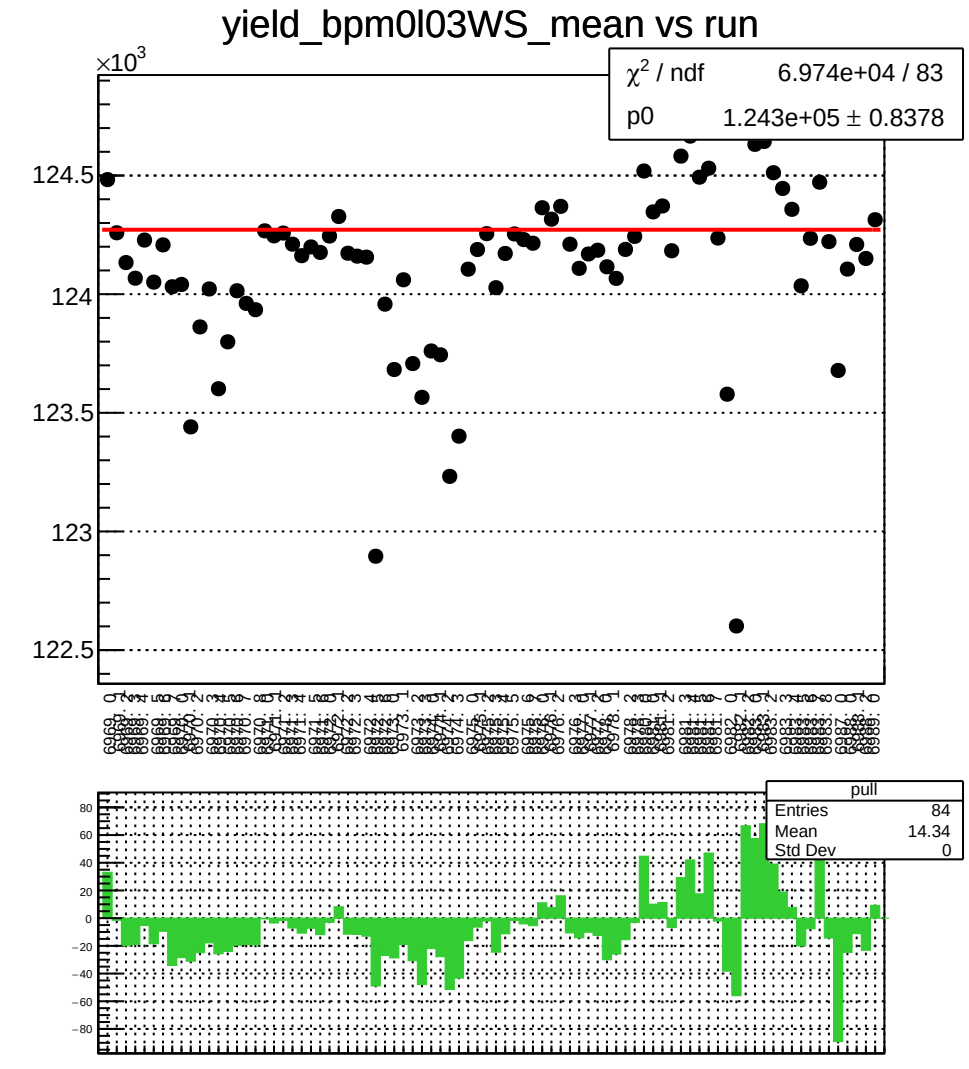

pull1D
Entries 84
Mean −4.261
Std Dev 2.319
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

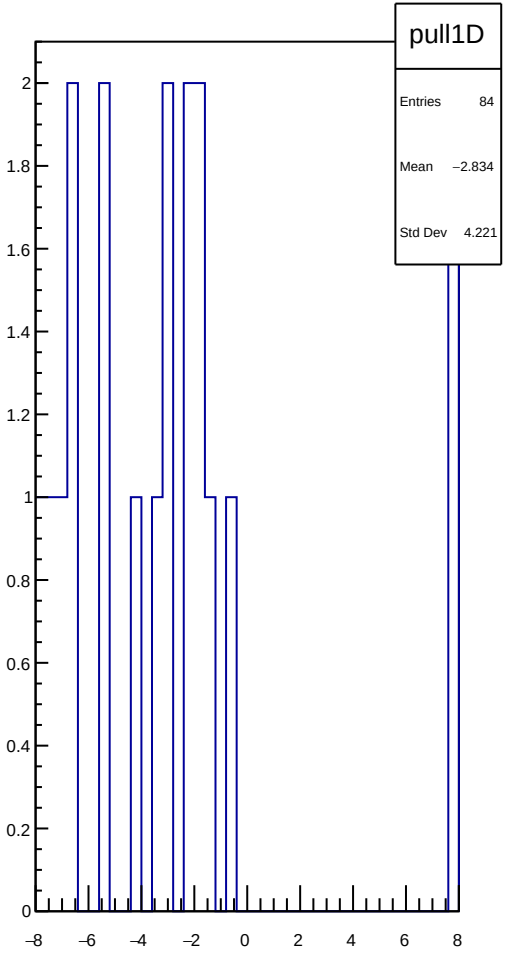

yield_bpm0l01WS_rms vs run
χ² / ndf 5.37e+04 / 83
p0 179.1 ± 0.1407
2500
2000
1500
1000
500

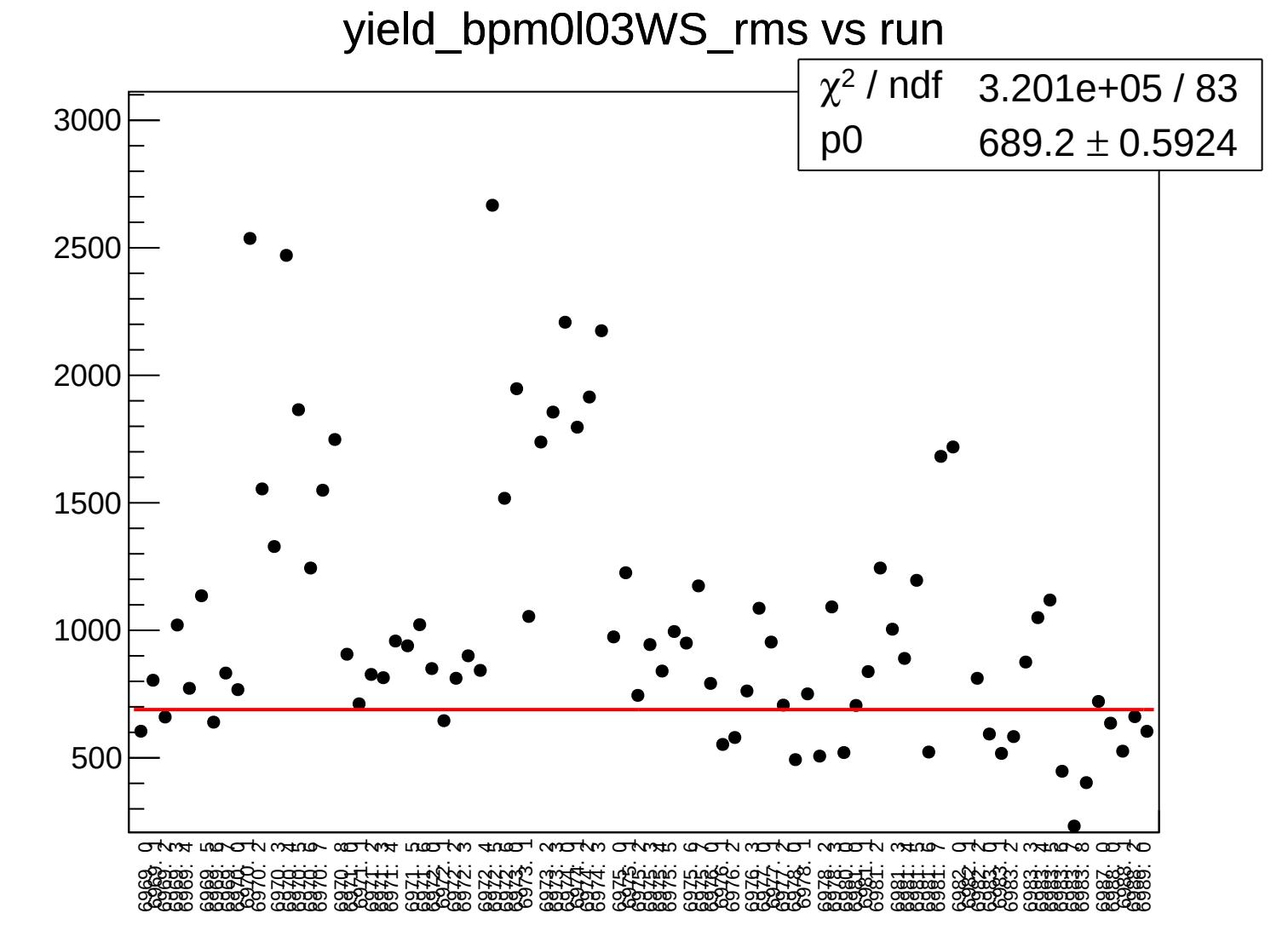

yield_bpm0l02WS_mean vs run
×10^3
126
125.5
125
124.5
124
123.5
χ² / ndf 3.931e+06 / 83
p0 1.248e+05 ± 0.2631
pull
Entries 84
Mean −1.091e+04
Std Dev 0
400
300
200
100
0
−100
−200
−300

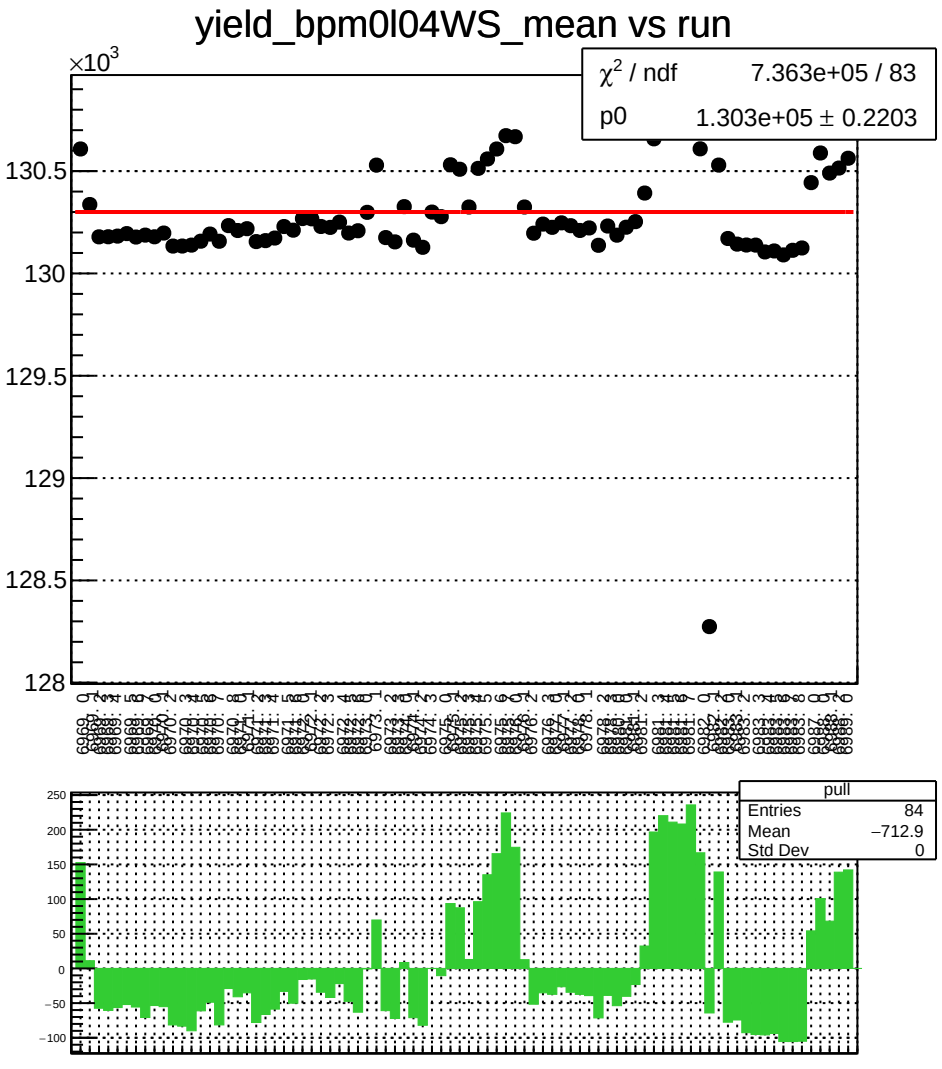

pull1D
Entries 84
Mean −5.656
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

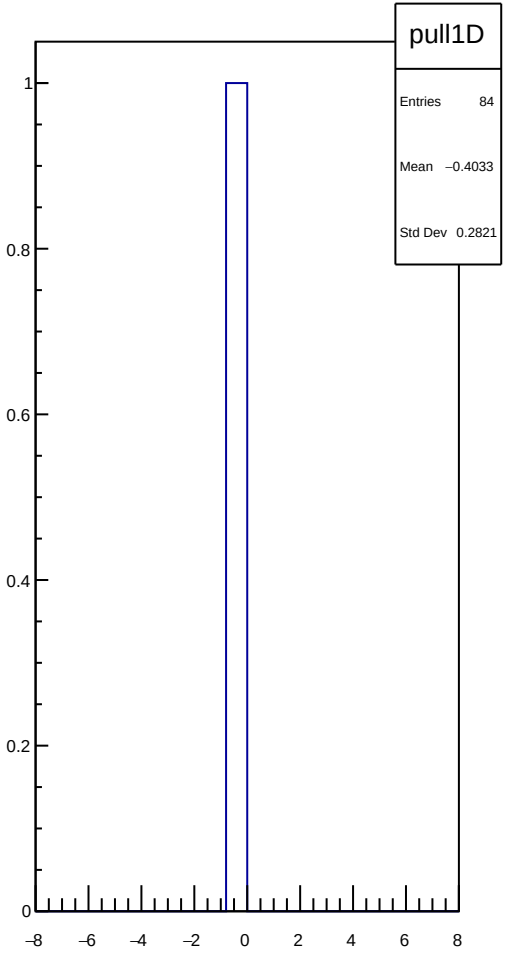

yield_bpm0l02WS_rms vs run
χ² / ndf 2.607e+04 / 83
p0 238.8 ± 0.1861
3000
2500
2000
1500
1000
500

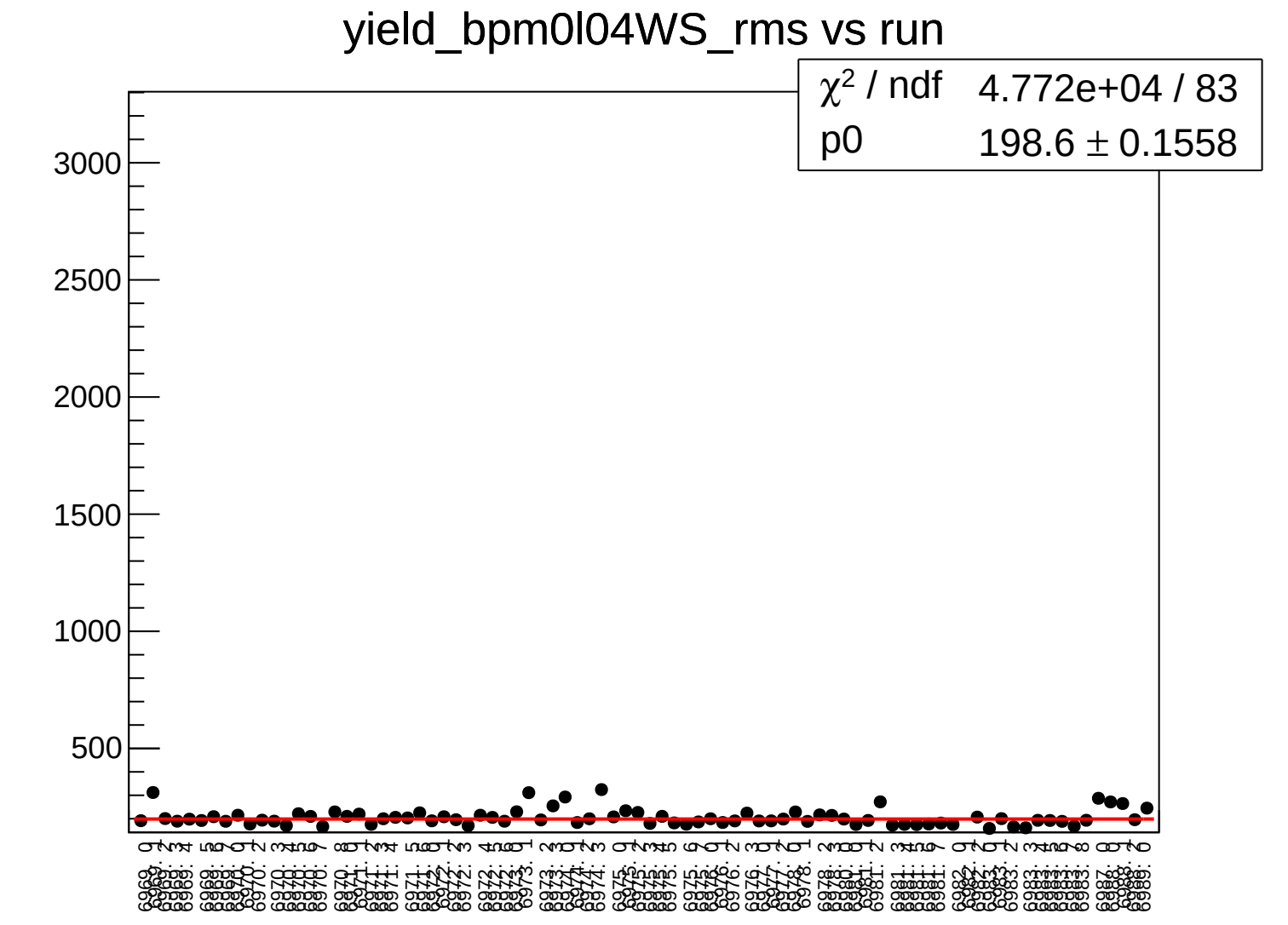

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 6.974e+04 / 83
p0 1.243e+05 ± 0.8378
124.5
124
123.5
123
122.5
pull
Entries 84
Mean 14.34
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

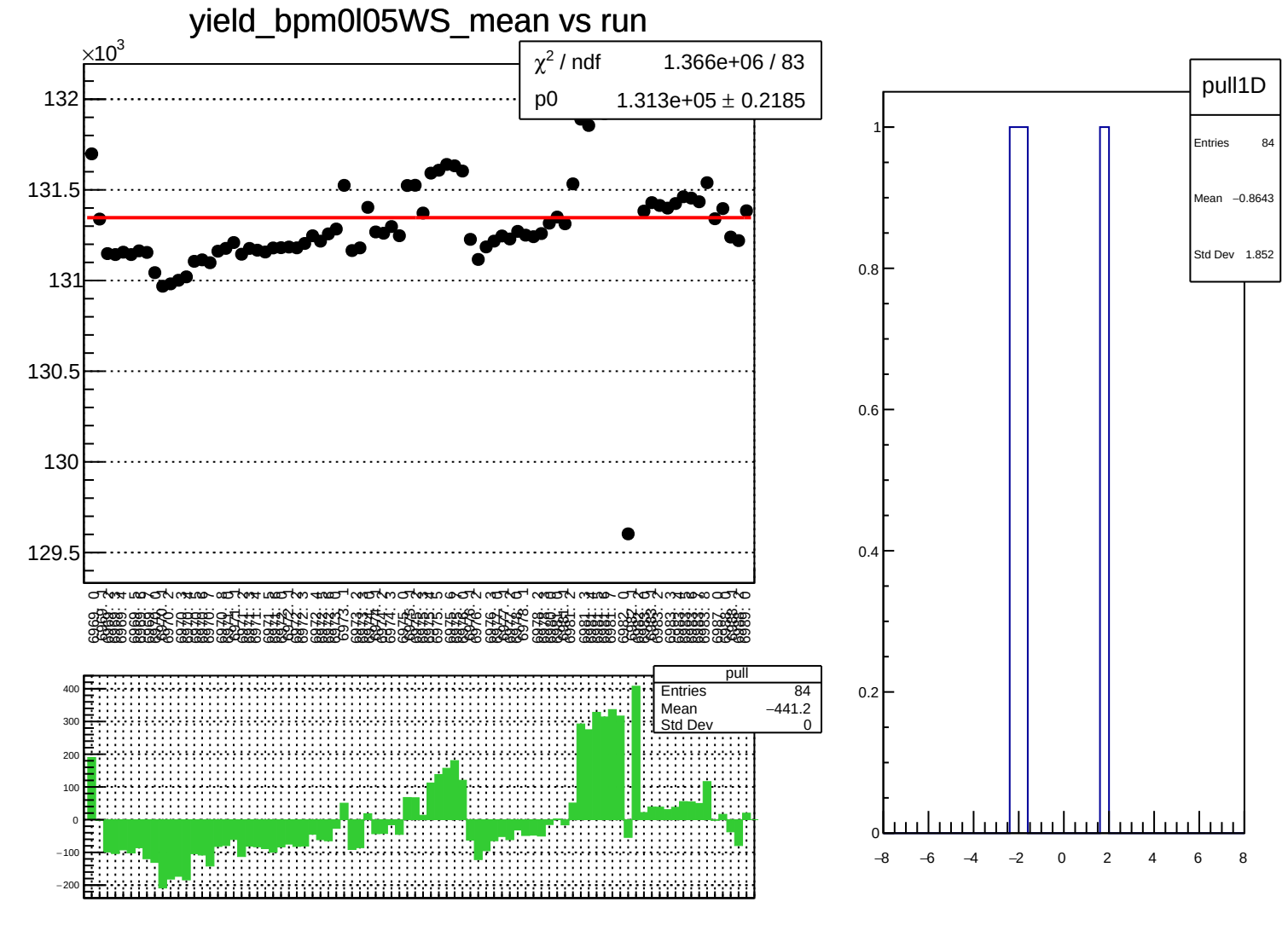

pull1D
Entries 84
Mean −2.834
Std Dev 4.221
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

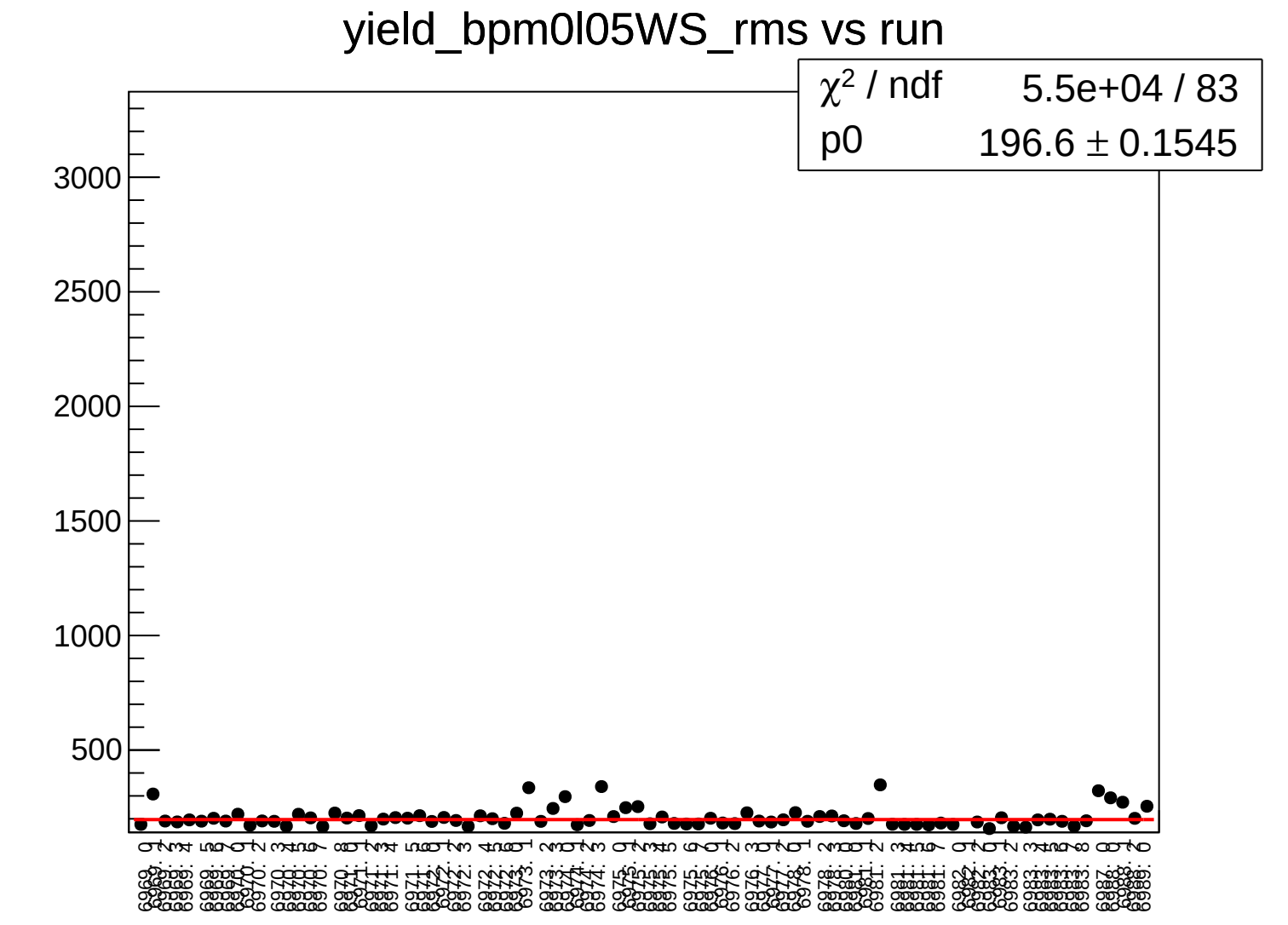

yield_bpm0l03WS_rms vs run
χ² / ndf 3.201e+05 / 83
p0 689.2 ± 0.5924
3000
2500
2000
1500
1000
500

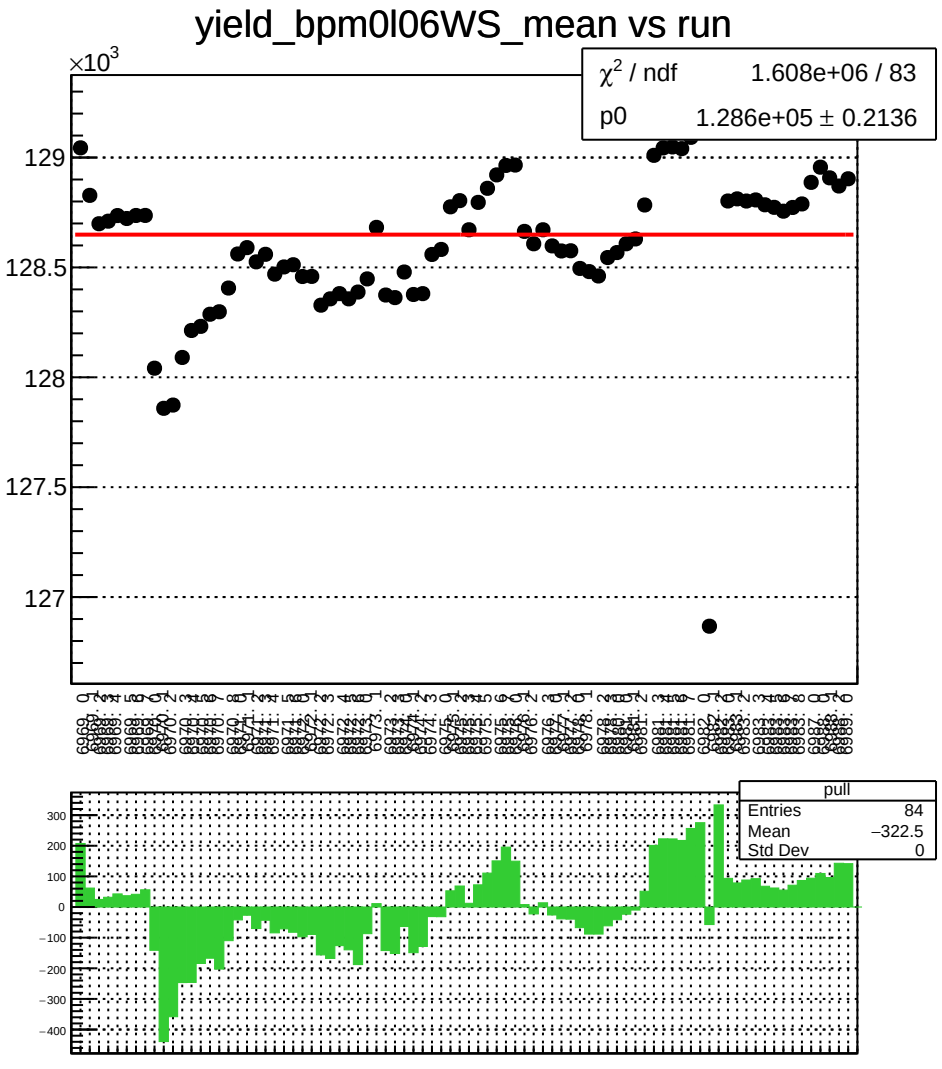

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 7.363e+05 / 83
p0 1.303e+05 ± 0.2203
130.5
130
129.5
129
128.5
128
pull
Entries 84
Mean −712.9
Std Dev 0
250
200
150
100
50
0
−50
−100

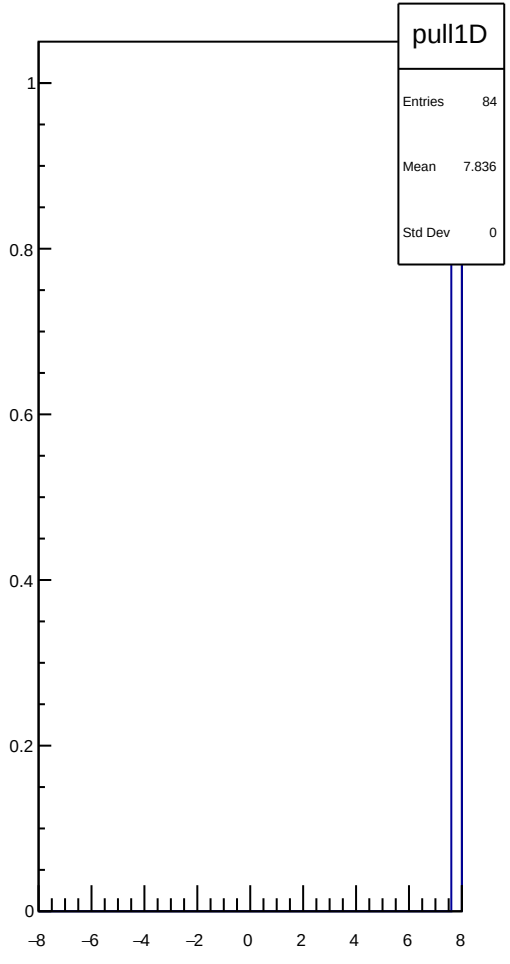

pull1D
Entries 84
Mean −0.4033
Std Dev 0.2821
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

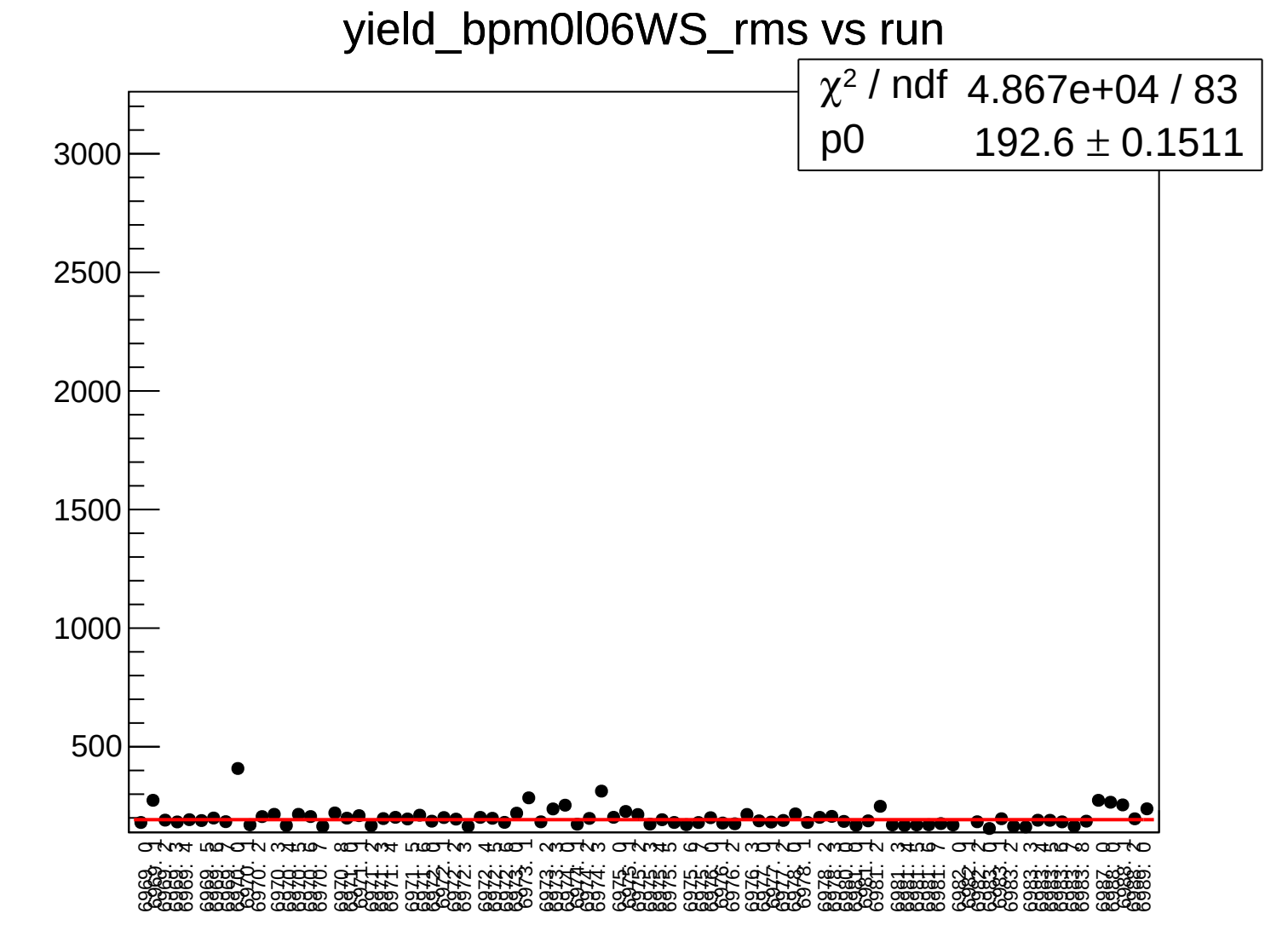

yield_bpm0l04WS_rms vs run
χ² / ndf 4.772e+04 / 83
p0 198.6 ± 0.1558
3000
2500
2000
1500
1000
500

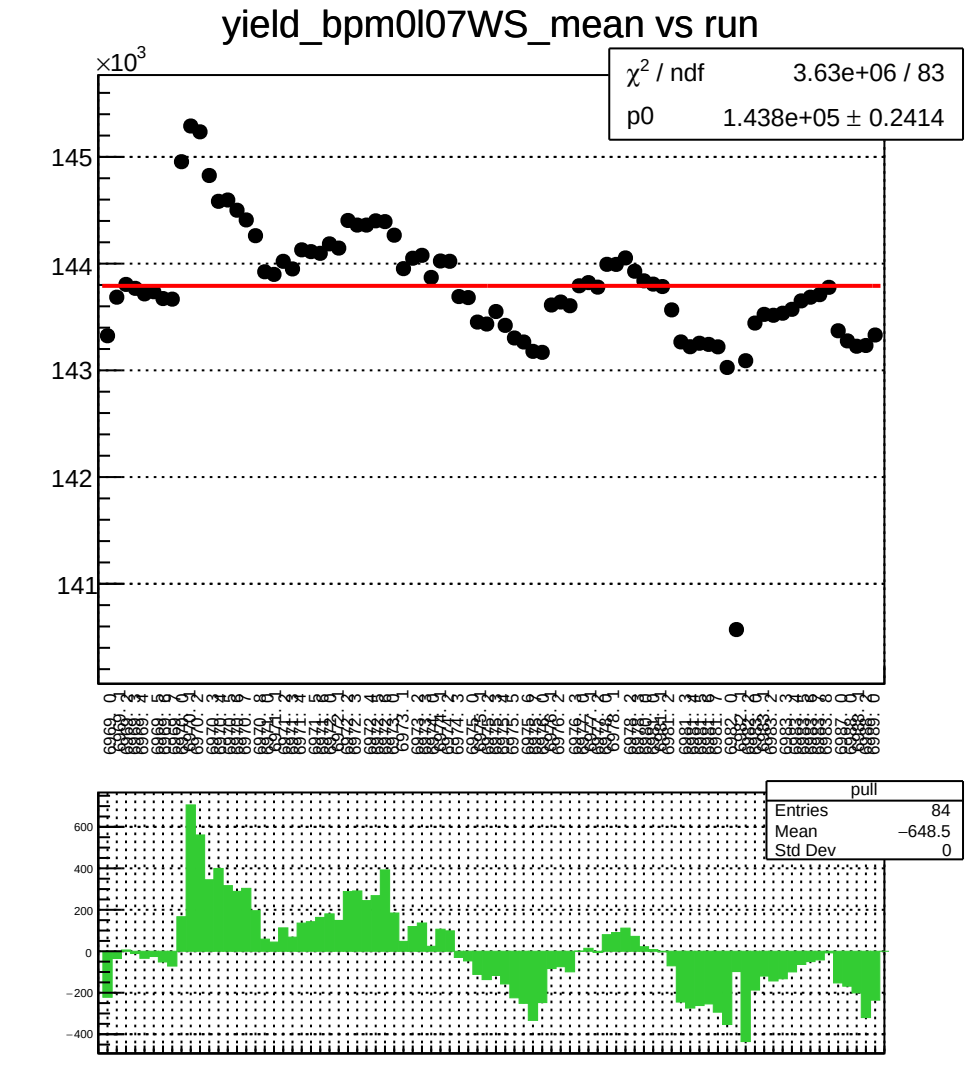

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.366e+06 / 83
p0 1.313e+05 ± 0.2185
132
131.5
131
130.5
130
129.5
pull
Entries 84
Mean −441.2
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 84
Mean −0.8643
Std Dev 1.852
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

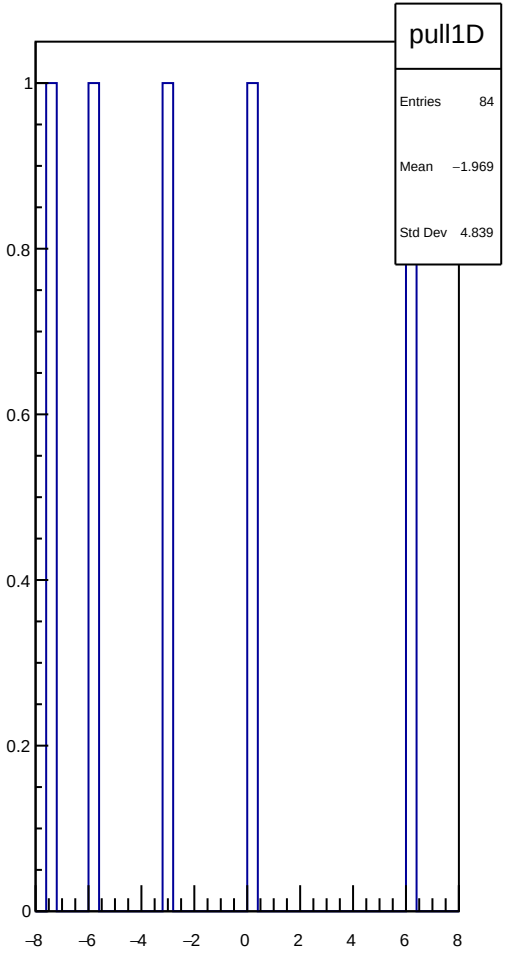

yield_bpm0l05WS_rms vs run
χ² / ndf 5.5e+04 / 83
p0 196.6 ± 0.1545
3000
2500
2000
1500
1000
500

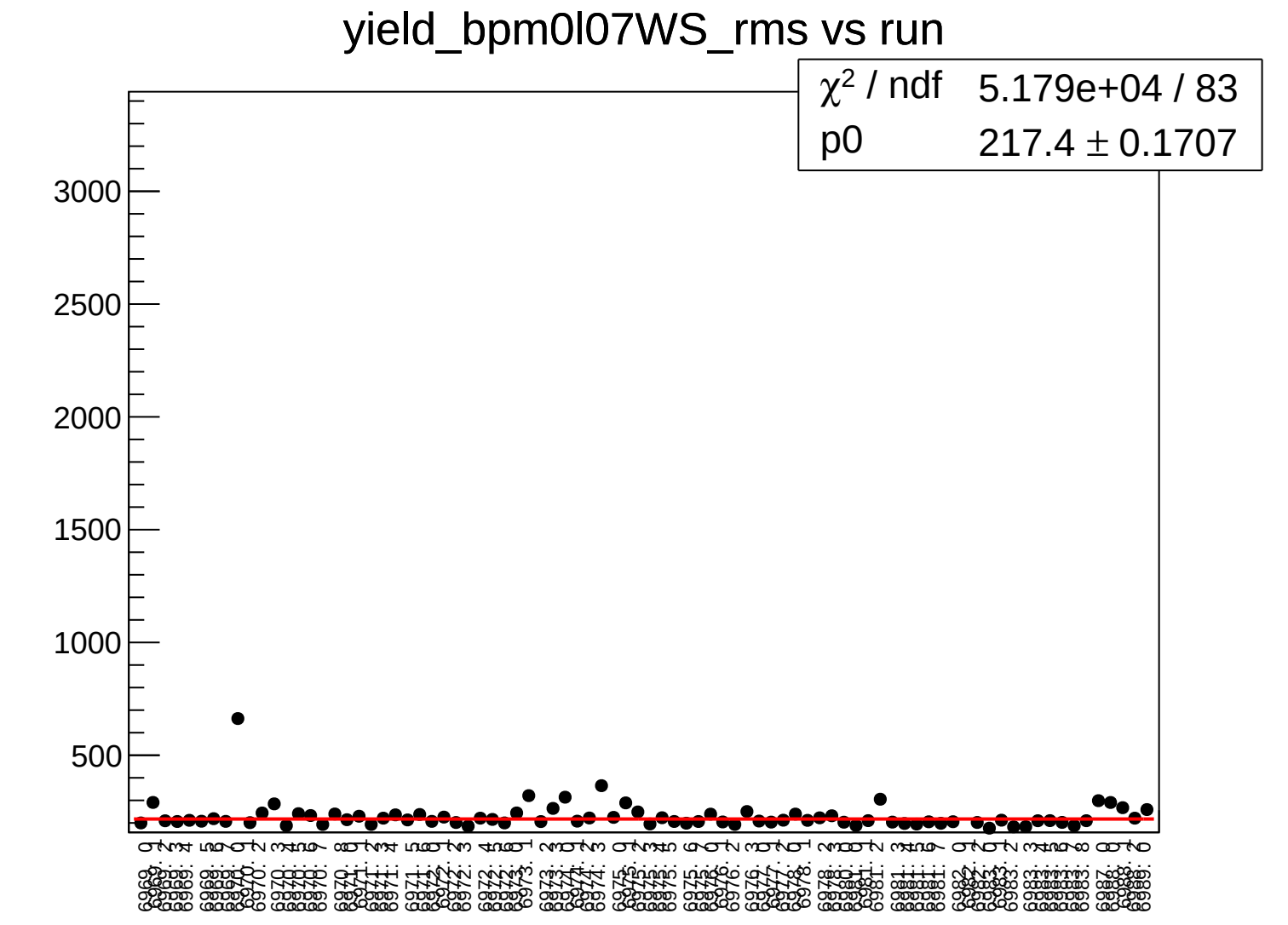

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.608e+06 / 83
p0 1.286e+05 ± 0.2136
129
128.5
128
127.5
127
pull
Entries 84
Mean −322.5
Std Dev 0
300
200
100
0
−100
−200
−300
−400

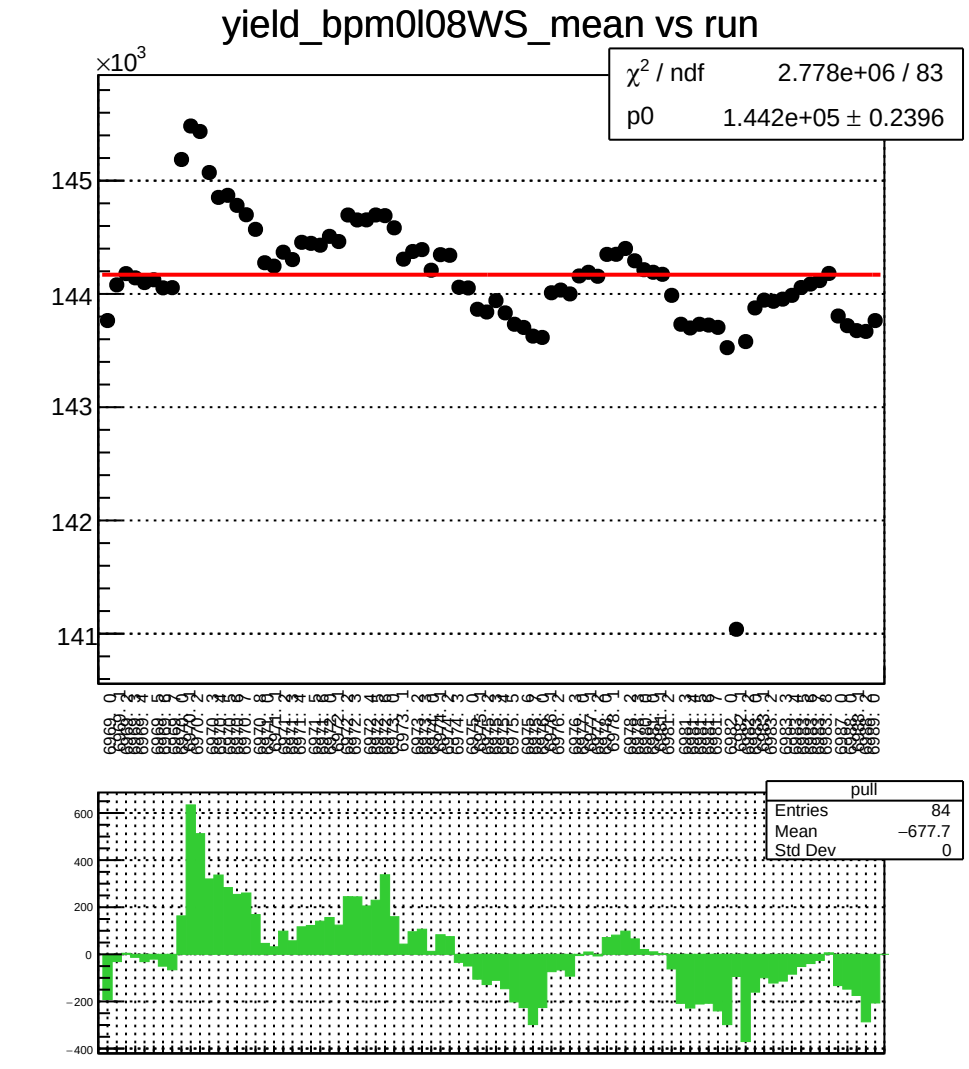

pull1D
Entries 84
Mean 7.836
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

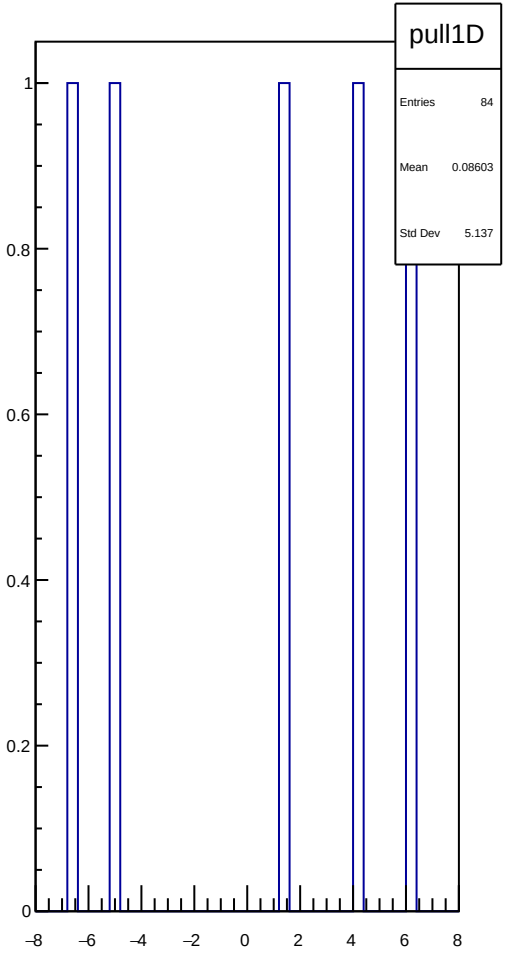

yield_bpm0l06WS_rms vs run
χ² / ndf 4.867e+04 / 83
p0 192.6 ± 0.1511
3000
2500
2000
1500
1000
500

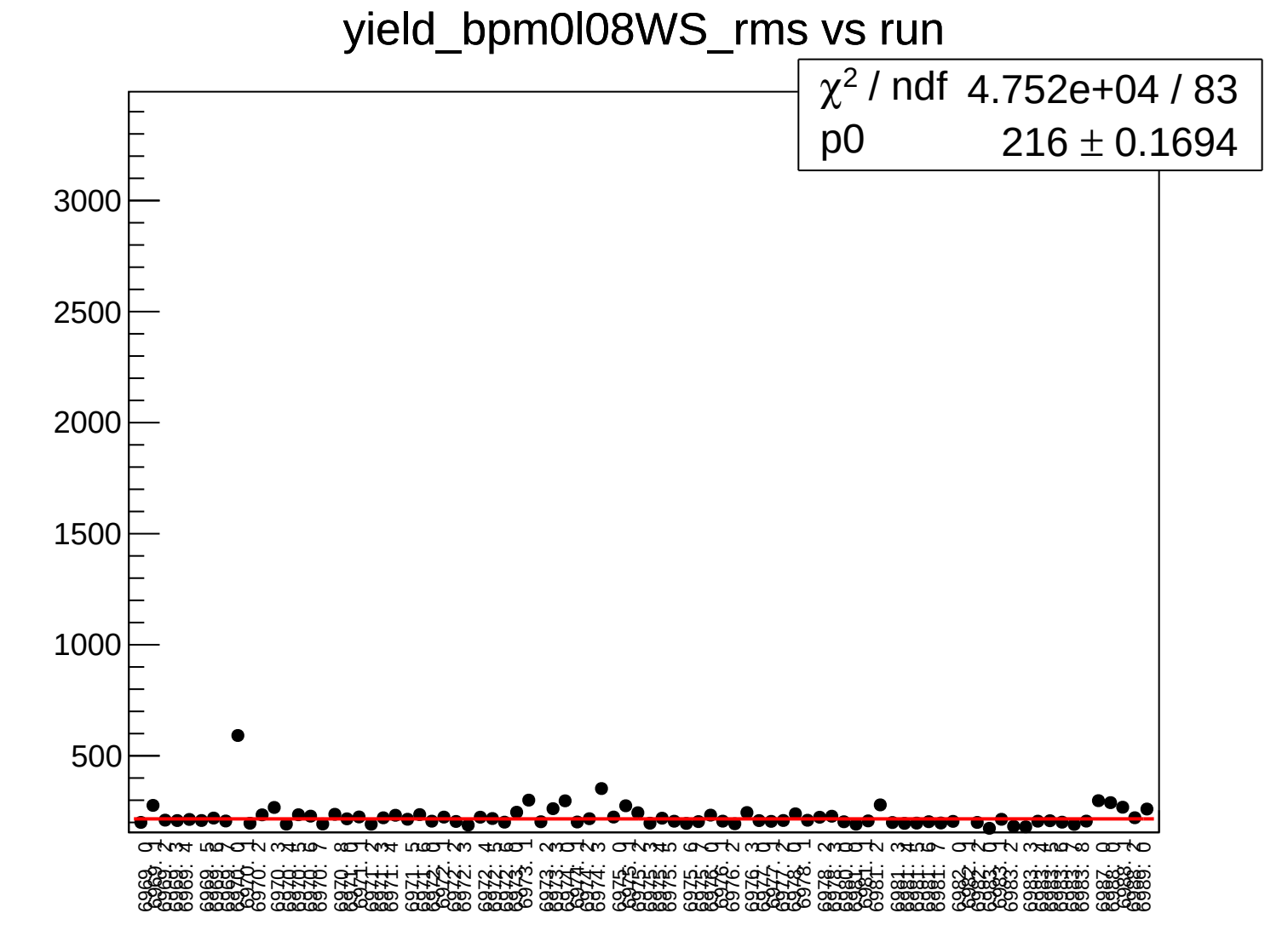

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.63e+06 / 83
p0 1.438e+05 ± 0.2414
145
144
143
142
141
pull
Entries 84
Mean −648.5
Std Dev 0
600
400
200
0
−200
−400

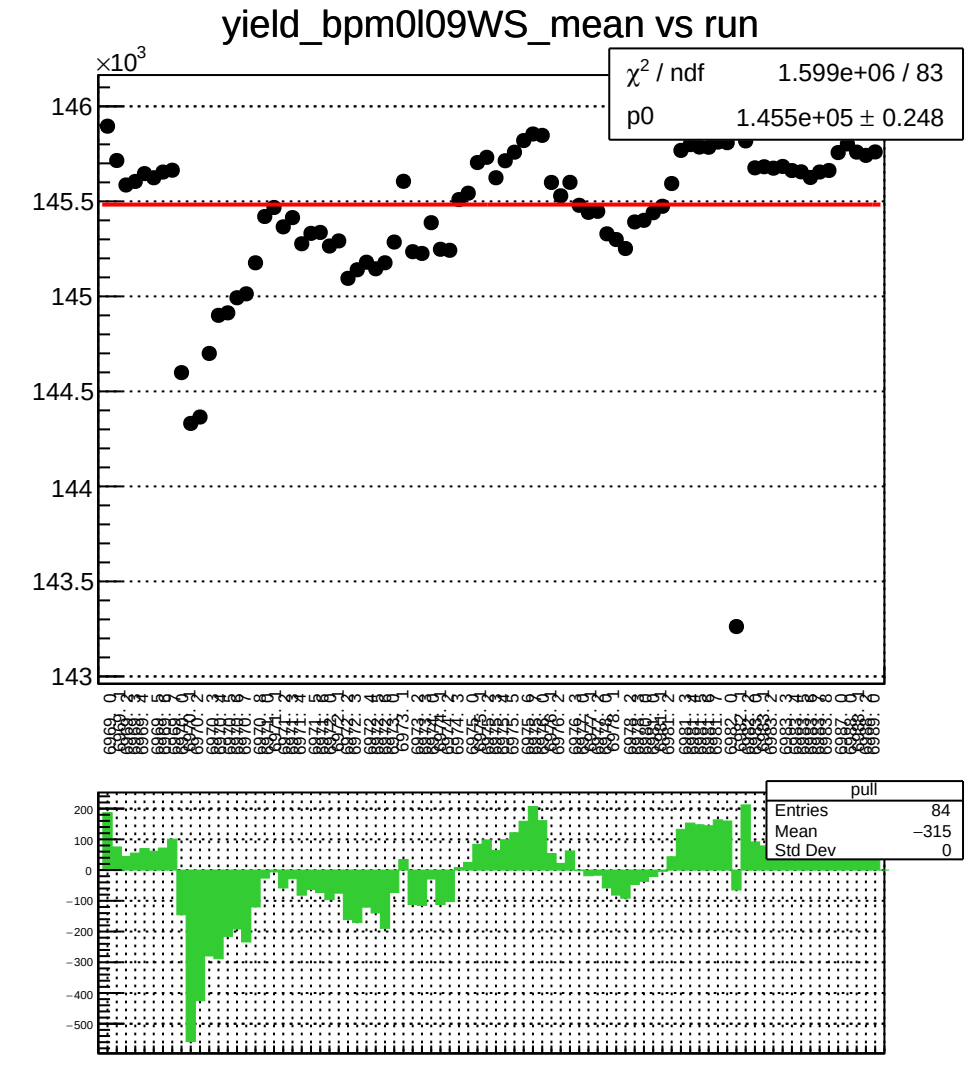

pull1D
Entries 84
Mean −1.969
Std Dev 4.839
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

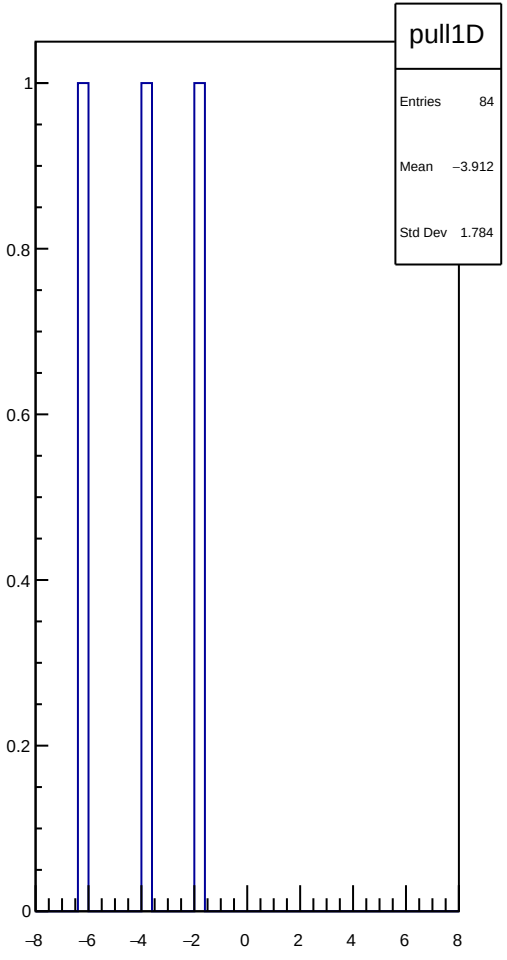

yield_bpm0l07WS_rms vs run
χ² / ndf 5.179e+04 / 83
p0 217.4 ± 0.1707
3000
2500
2000
1500
1000
500

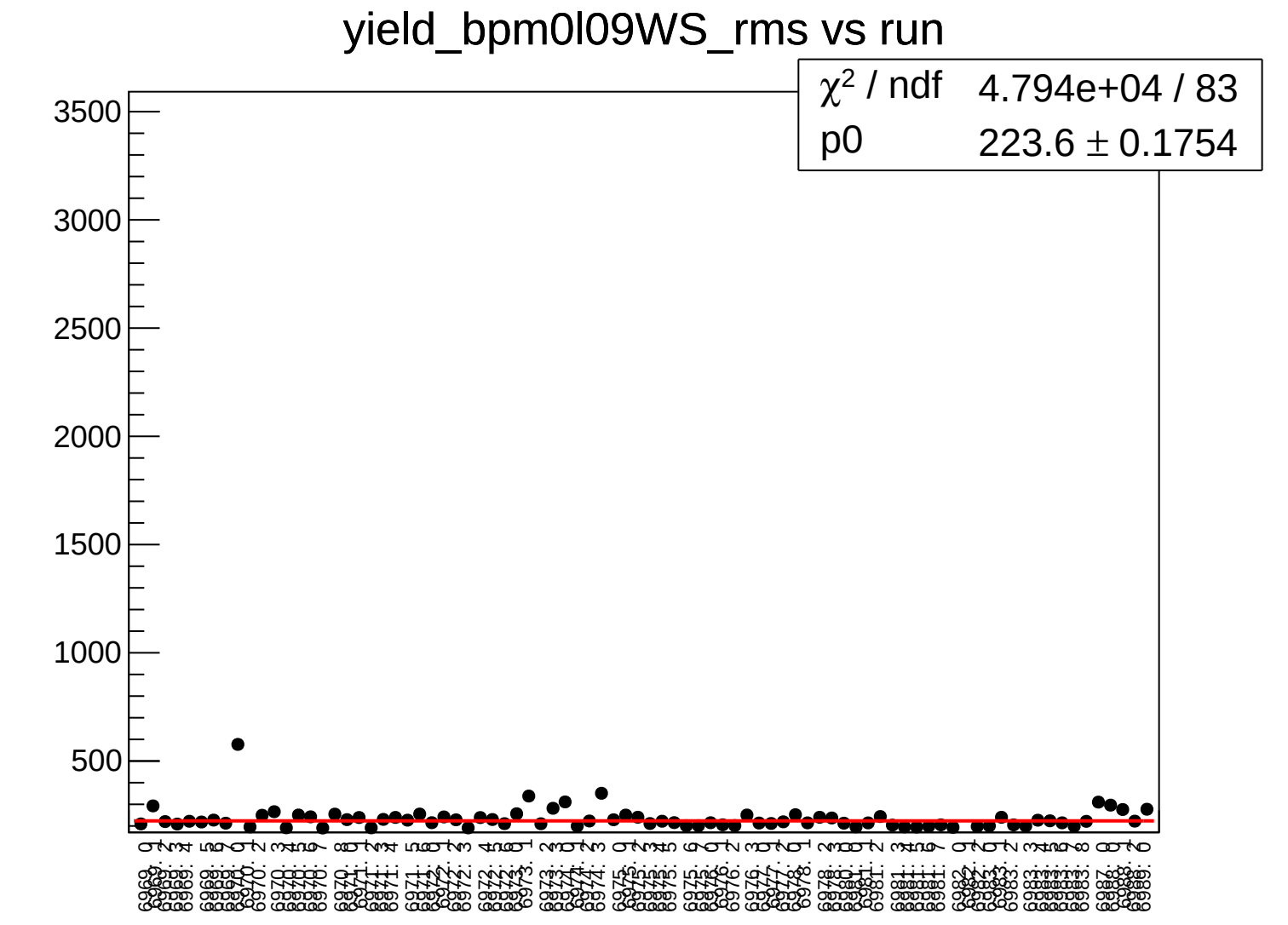

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 2.778e+06 / 83
p0 1.442e+05 ± 0.2396
145
144
143
142
141
pull
Entries 84
Mean −677.7
Std Dev 0
600
400
200
0
−200
−400

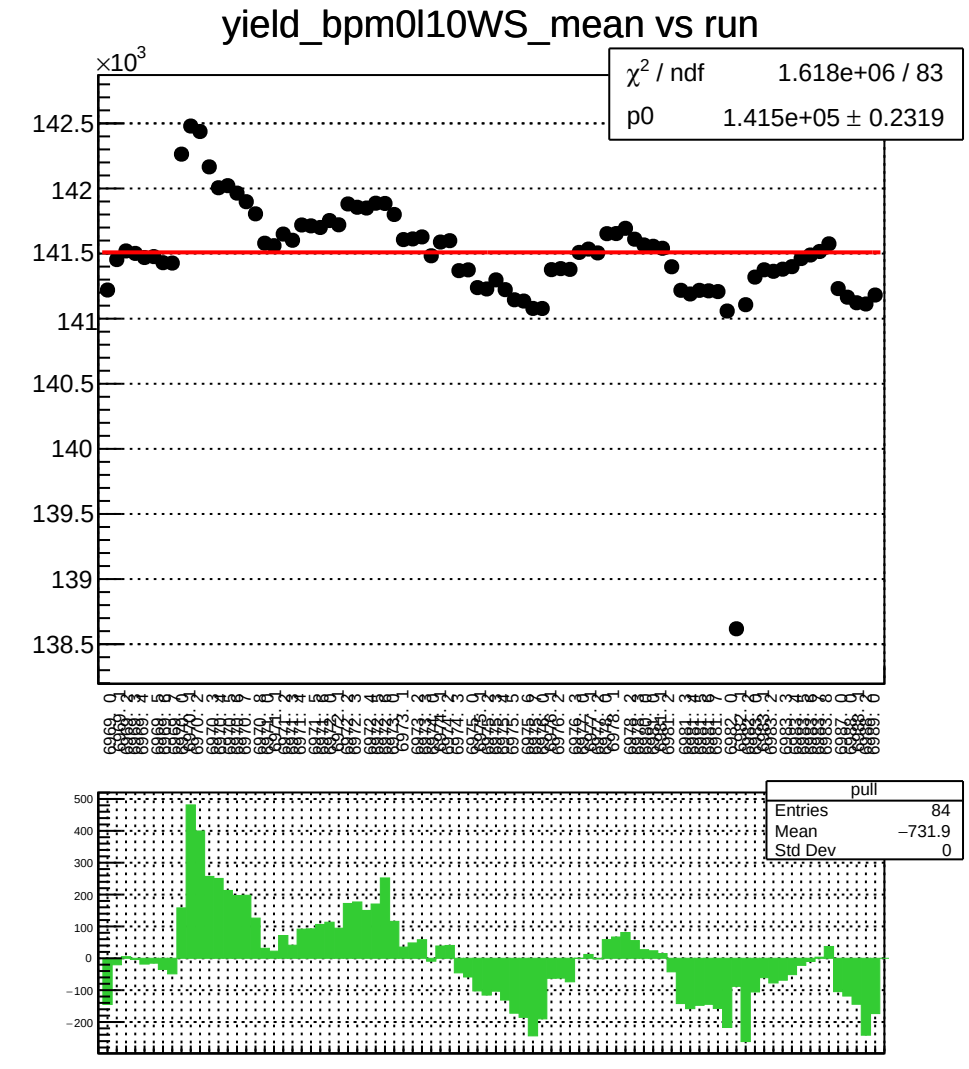

pull1D
Entries 84
Mean 0.08603
Std Dev 5.137
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

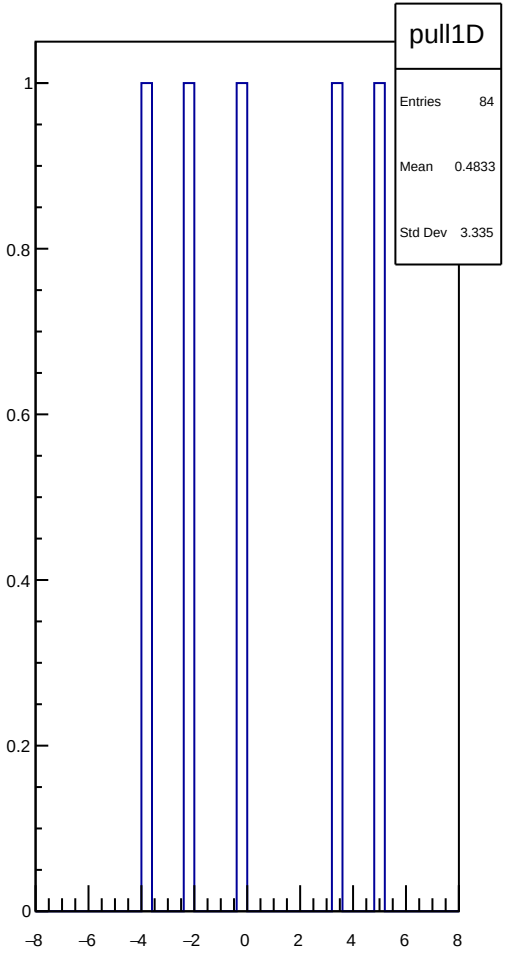

yield_bpm0l08WS_rms vs run
χ² / ndf 4.752e+04 / 83
p0 216 ± 0.1694
3000
2500
2000
1500
1000
500

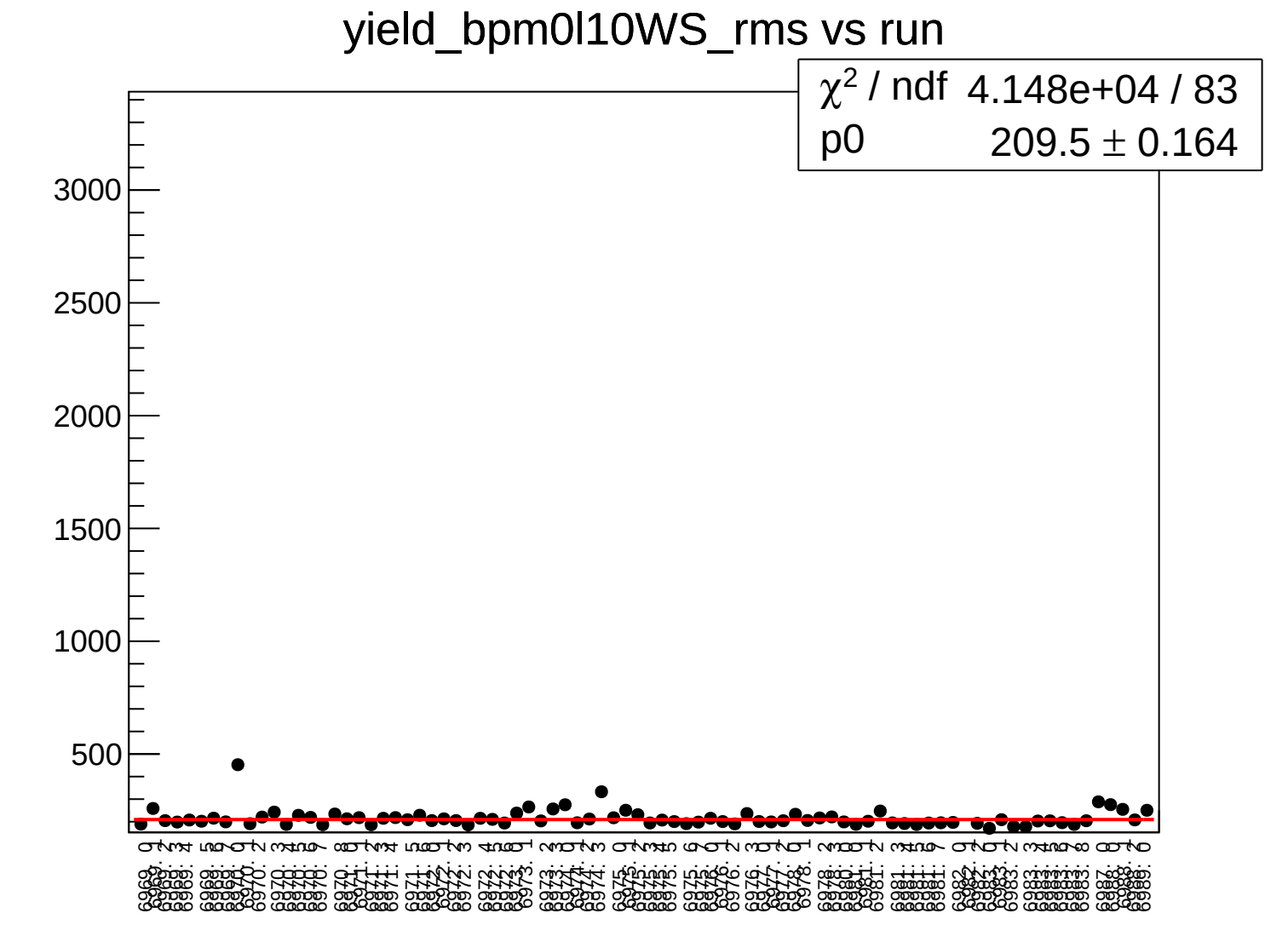

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.599e+06 / 83
p0 1.455e+05 ± 0.248
146
145.5
145
144.5
144
143.5
143
pull
Entries 84
Mean −315
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

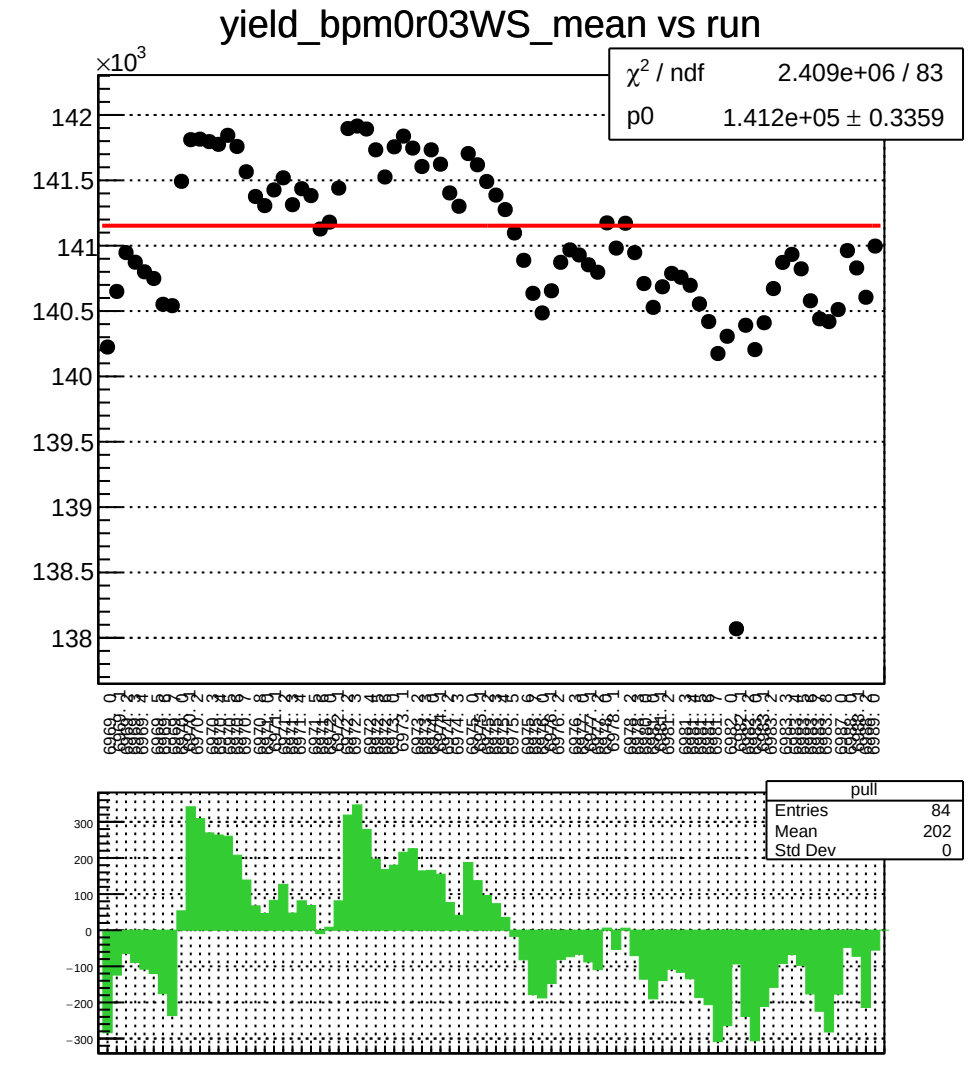

pull1D
Entries 84
Mean −3.912
Std Dev 1.784
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

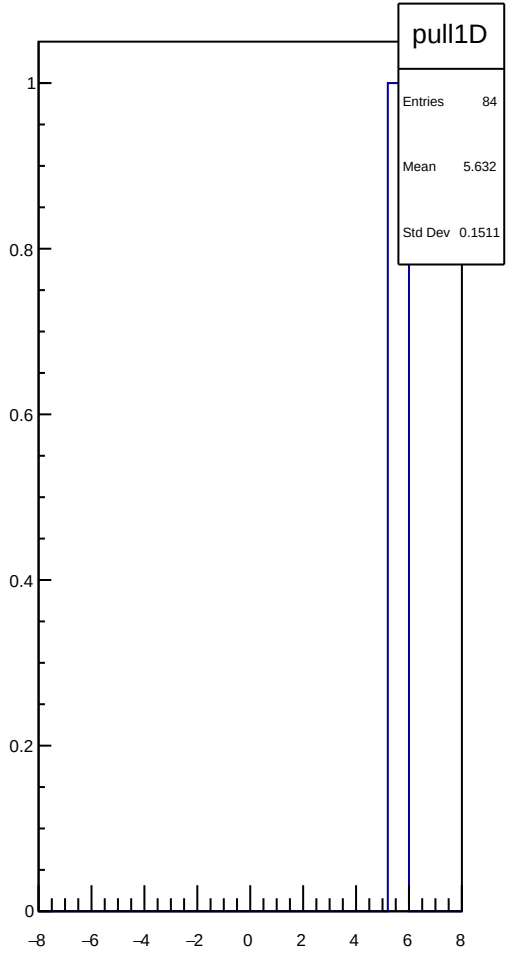

yield_bpm0l09WS_rms vs run
χ² / ndf 4.794e+04 / 83
p0 223.6 ± 0.1754
3500
3000
2500
2000
1500
1000
500

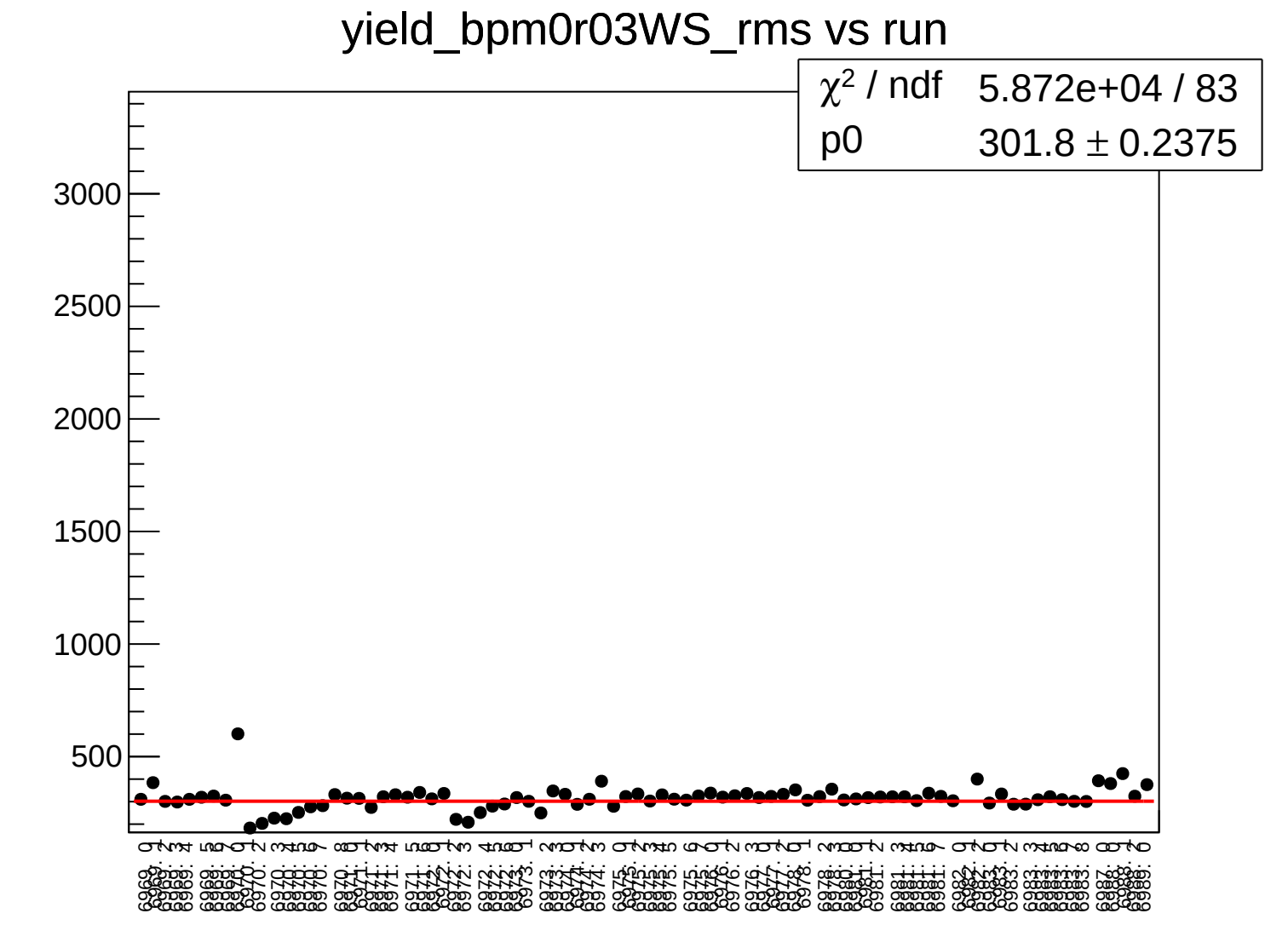

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.618e+06 / 83
p0 1.415e+05 ± 0.2319
142.5
142
141.5
141
140.5
140
139.5
139
138.5
pull
Entries 84
Mean −731.9
Std Dev 0
500
400
300
200
100
0
−100
−200

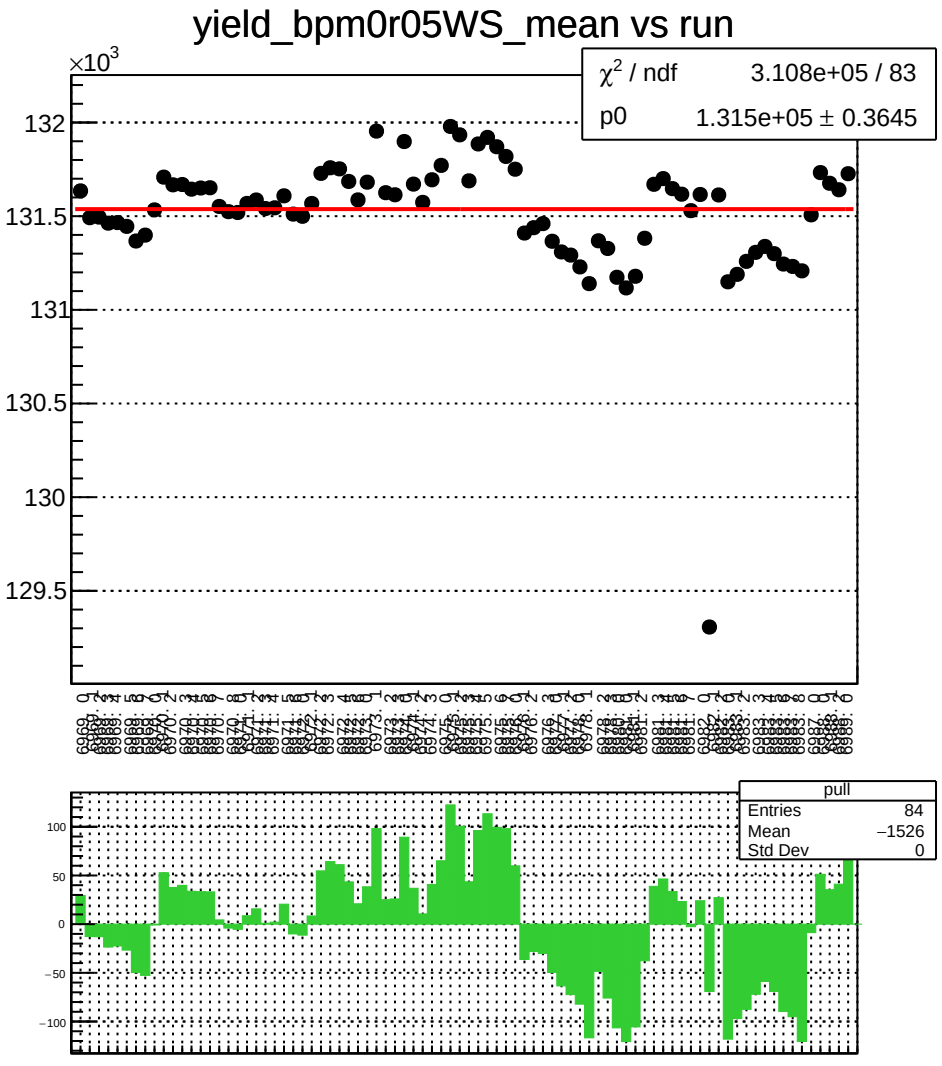

pull1D
Entries 84
Mean 0.4833
Std Dev 3.335
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

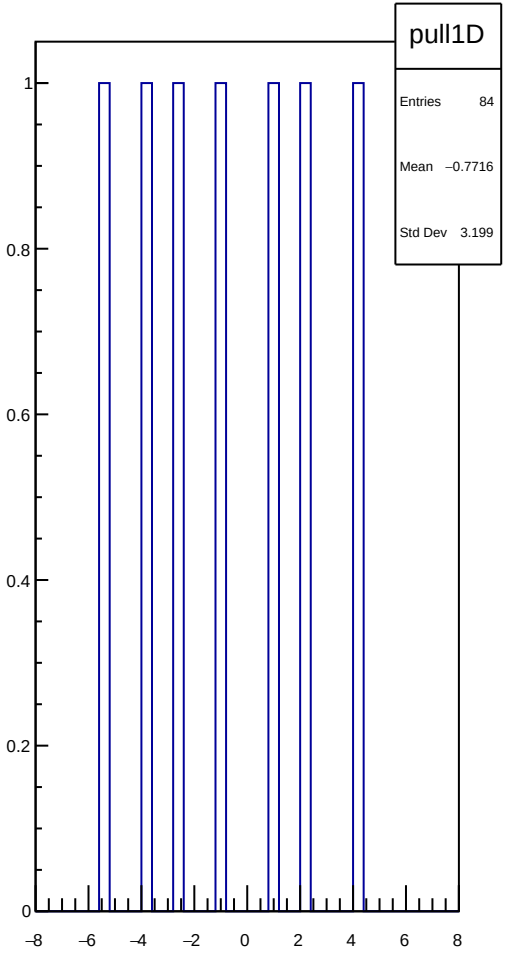

yield_bpm0l10WS_rms vs run
χ² / ndf 4.148e+04 / 83
p0 209.5 ± 0.164
3000
2500
2000
1500
1000
500

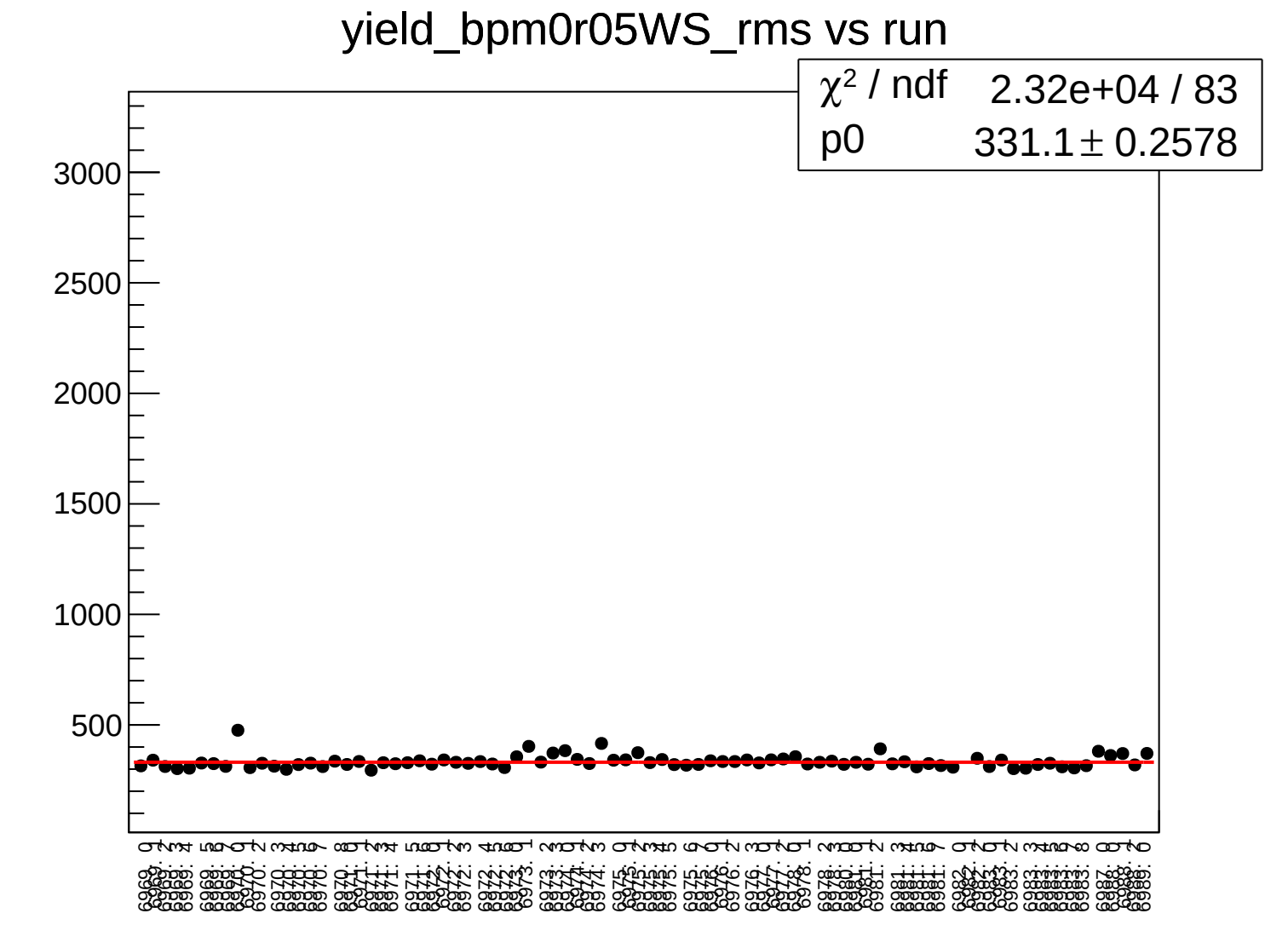

yield_bpm0r03WS_mean vs run
χ² / ndf 2.409e+06 / 83
p0 1.412e+05 ± 0.3359
×10³
142
141.5
141
140.5
140
139.5
139
138.5
138
pull
Entries 84
Mean 202
Std Dev 0
300
200
100
0
−100
−200
−300

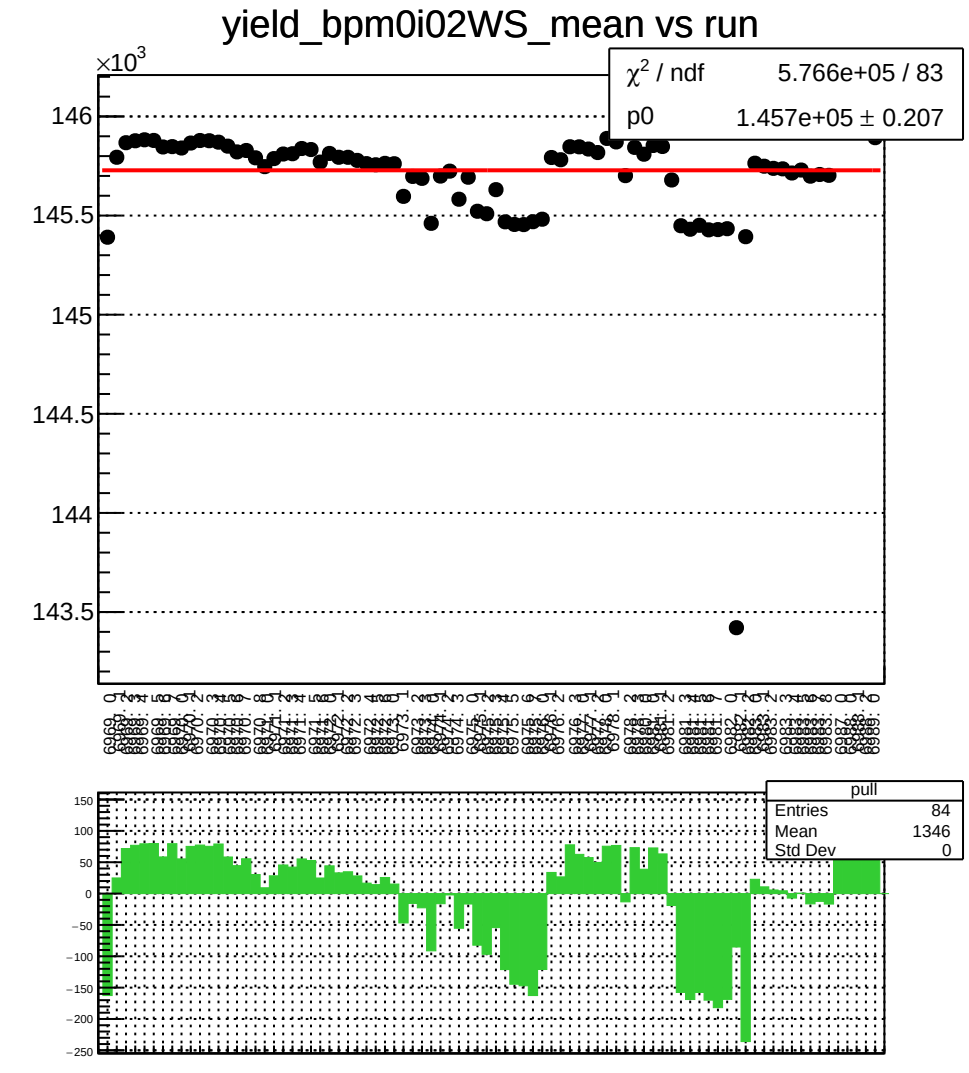

pull1D
Entries 84
Mean 5.632
Std Dev 0.1511
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

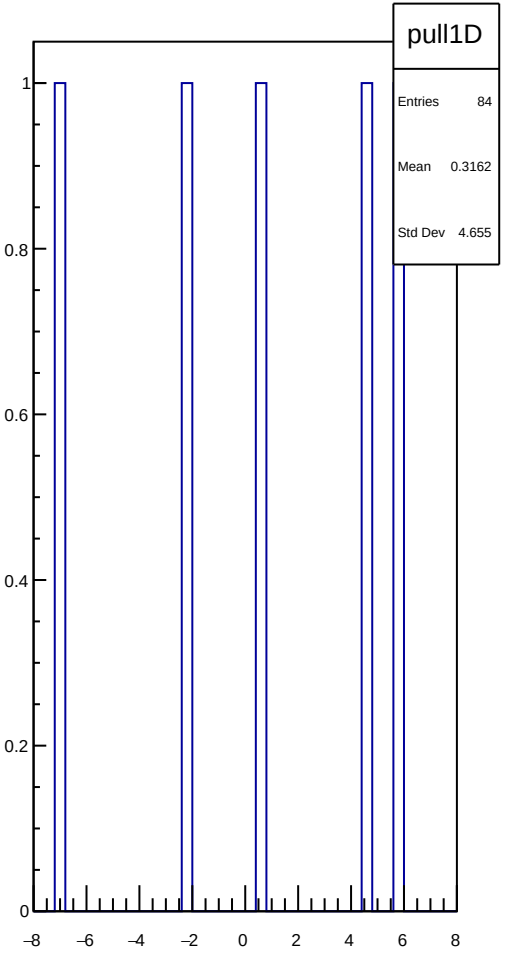

yield_bpm0r03WS_rms vs run
χ² / ndf 5.872e+04 / 83
p0 301.8 ± 0.2375
3000
2500
2000
1500
1000
500

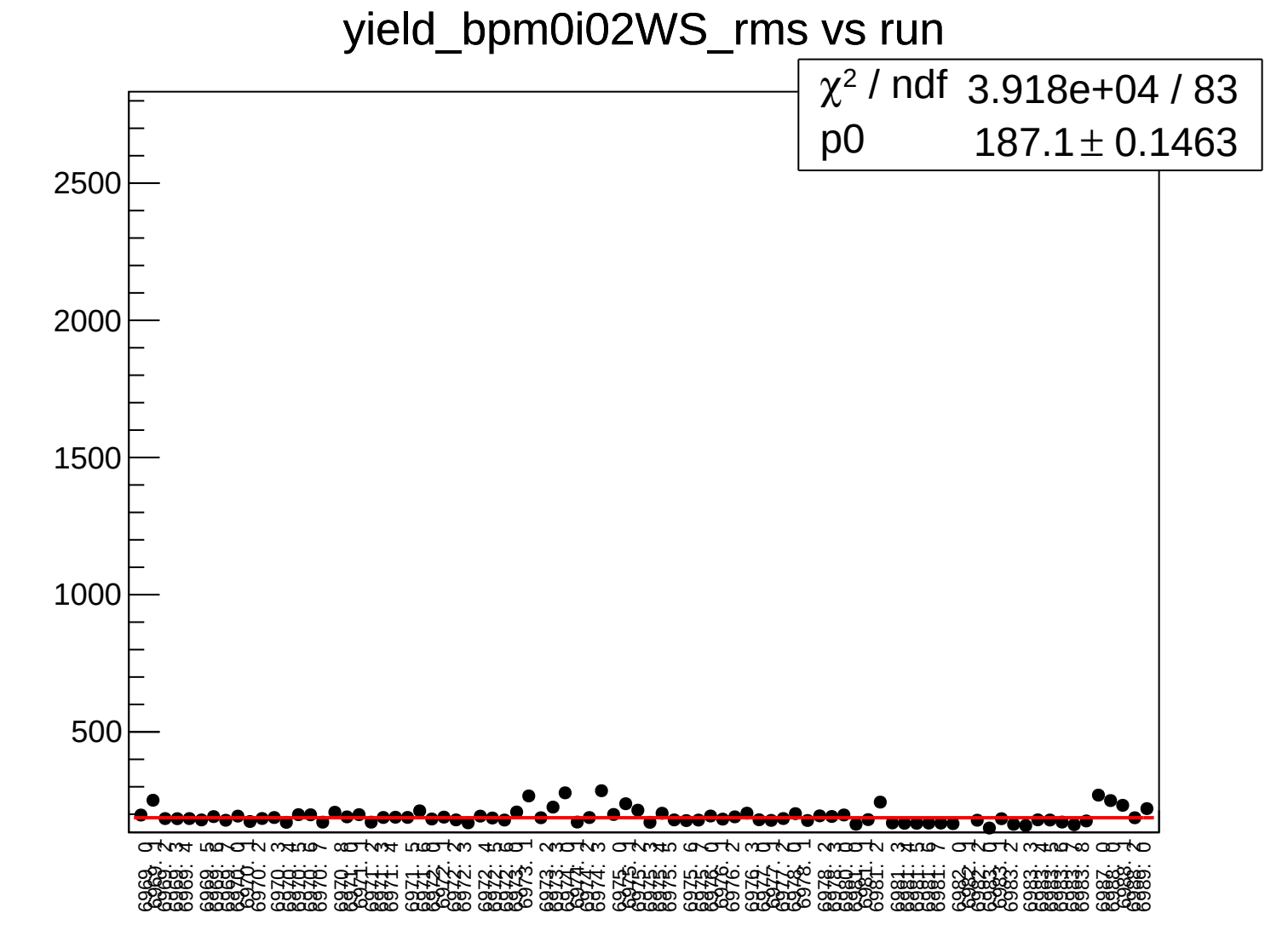

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 3.108e+05 / 83
p0 1.315e+05 ± 0.3645
132
131.5
131
130.5
130
129.5
pull
Entries 84
Mean −1526
Std Dev 0
100
50
0
−50
−100

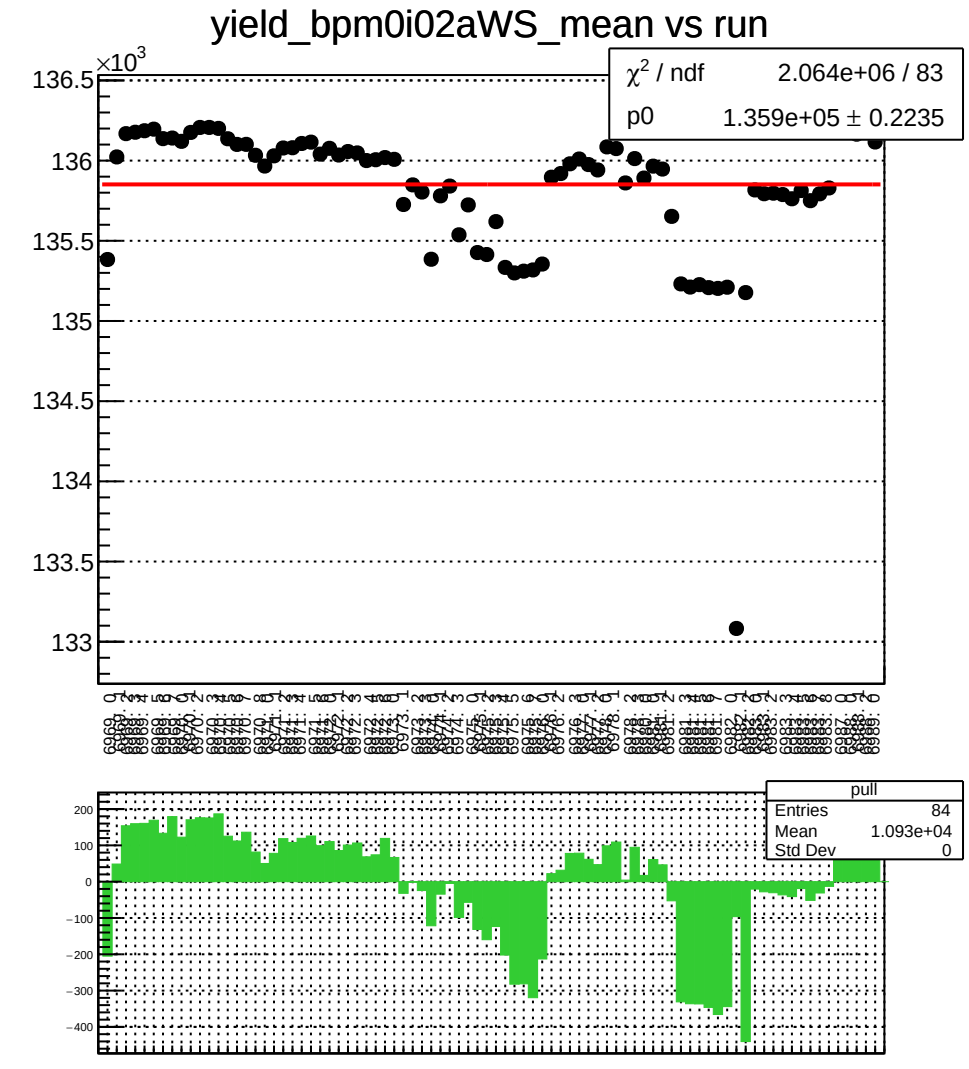

pull1D
Entries 84
Mean −0.7716
Std Dev 3.199
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

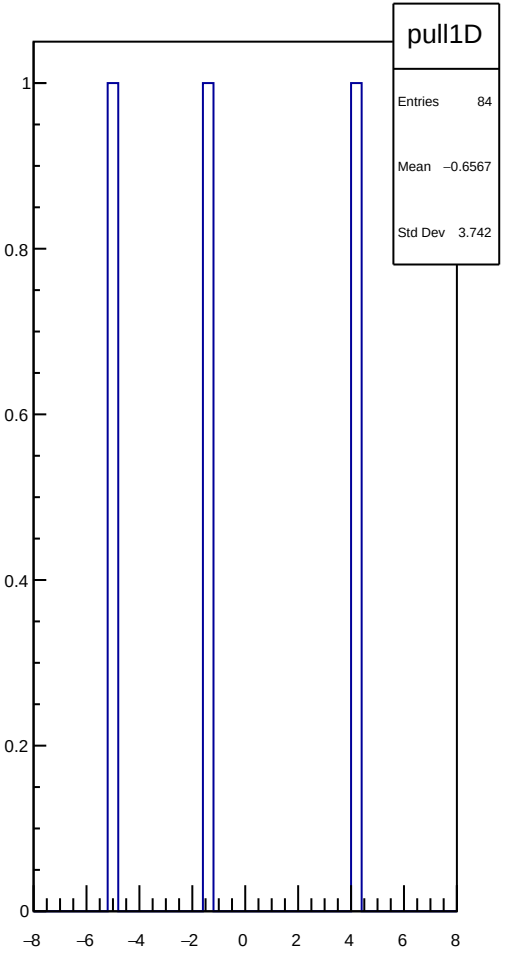

yield_bpm0r05WS_rms vs run
χ² / ndf 2.32e+04 / 83
p0 331.1 ± 0.2578
3000
2500
2000
1500
1000
500

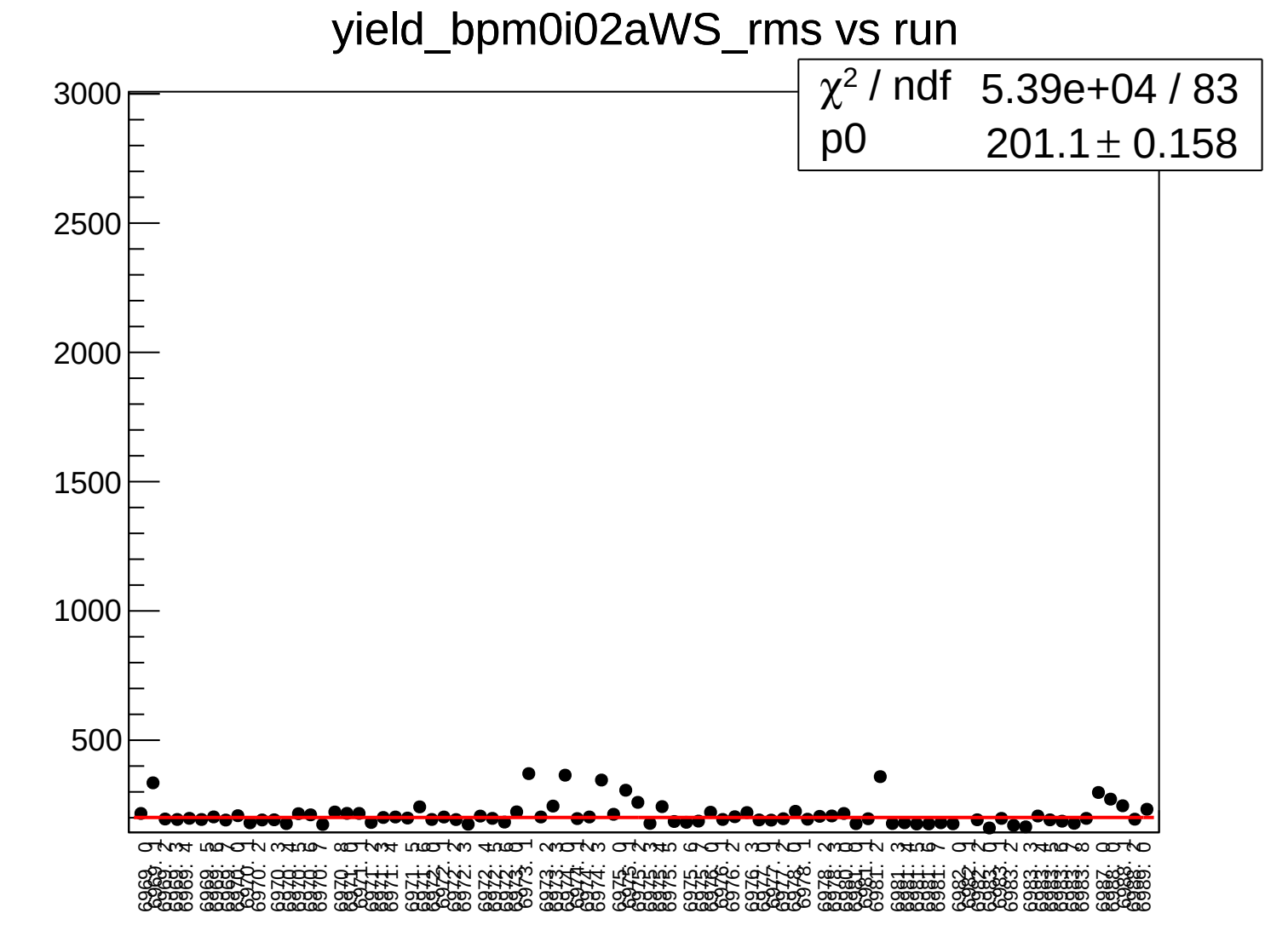

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 5.766e+05 / 83
p0 1.457e+05 ± 0.207
146
145.5
145
144.5
144
143.5
pull
Entries 84
Mean 1346
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

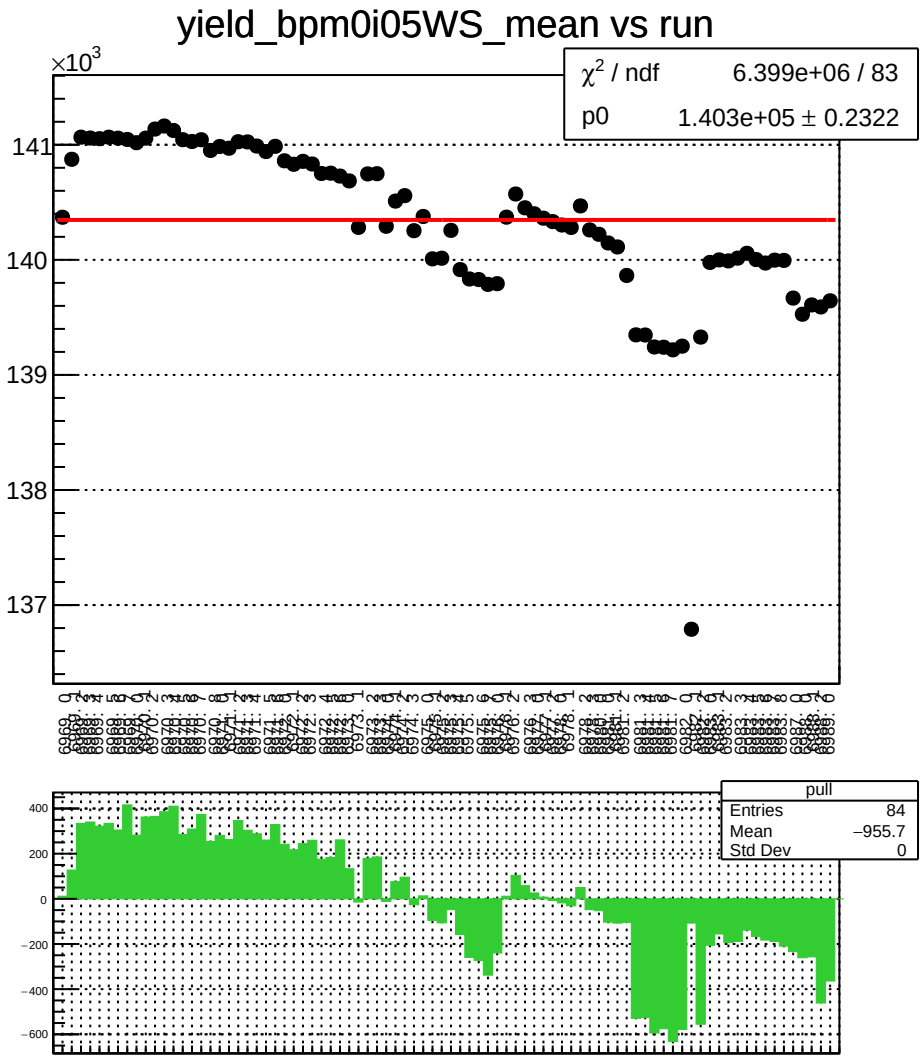

pull1D
Entries 84
Mean 0.3162
Std Dev 4.655
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

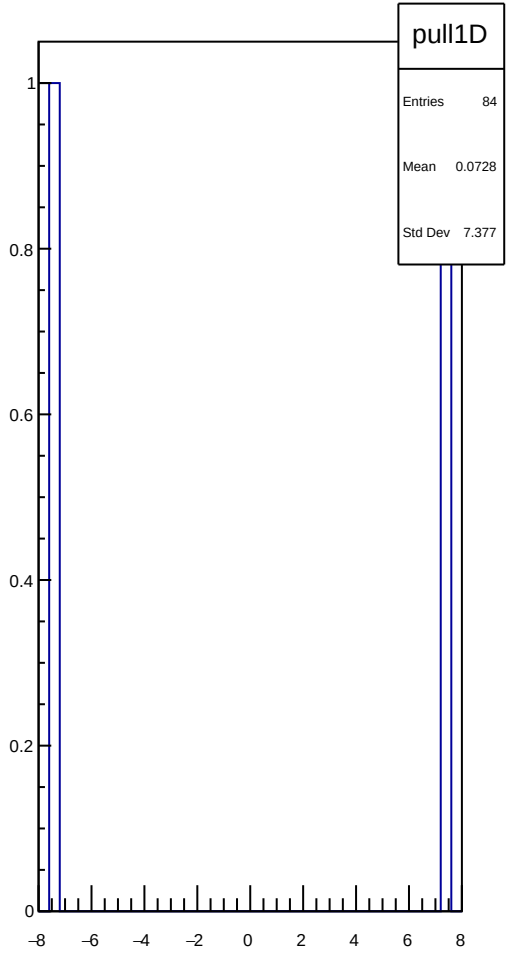

yield_bpm0i02WS_rms vs run
χ² / ndf 3.918e+04 / 83
p0 187.1 ± 0.1463
2500
2000
1500
1000
500

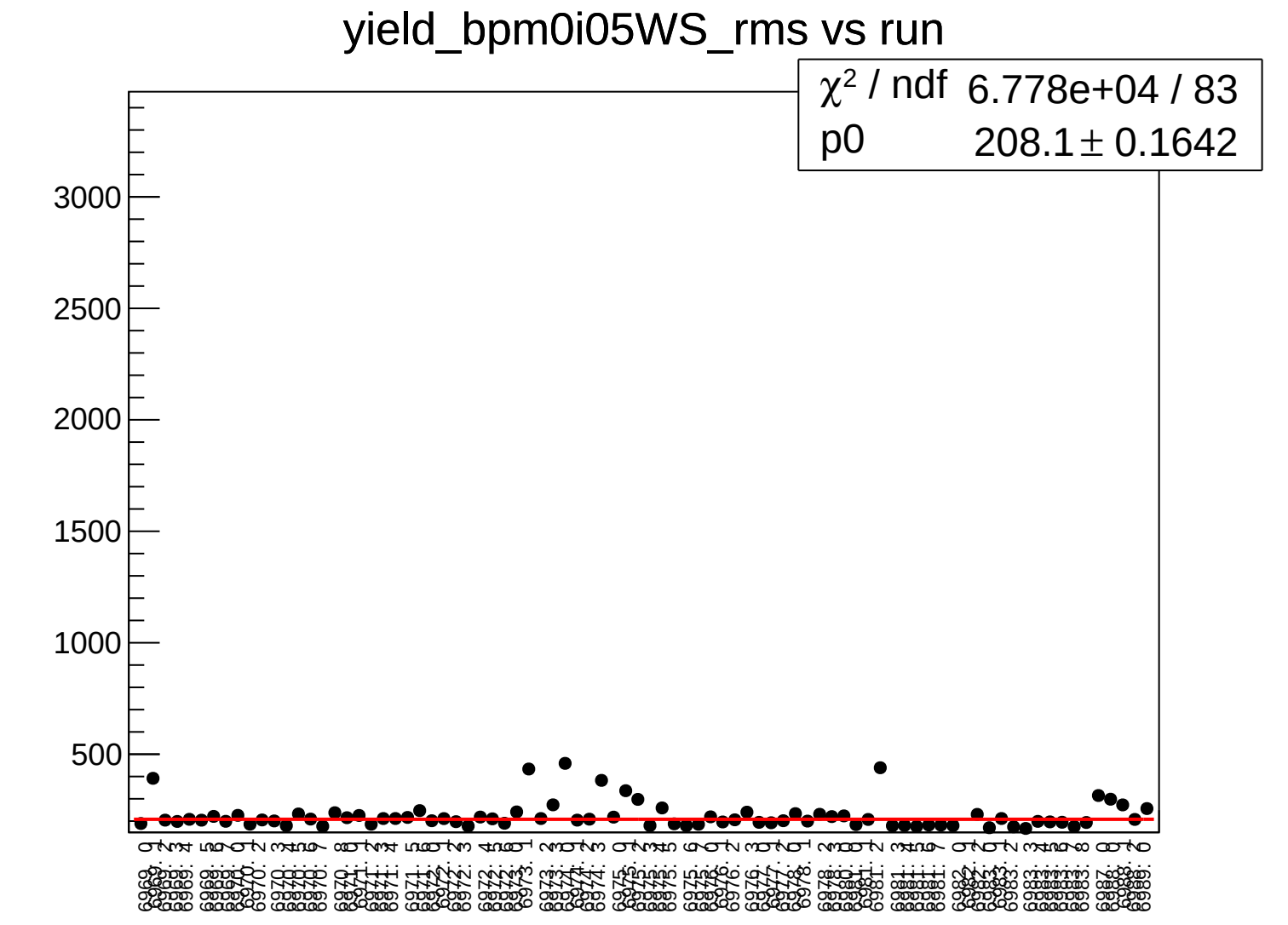

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.064e+06 / 83
p0 1.359e+05 ± 0.2235
136.5
136
135.5
135
134.5
134
133.5
133
pull
Entries 84
Mean 1.093e+04
Std Dev 0
200
100
0
−100
−200
−300
−400

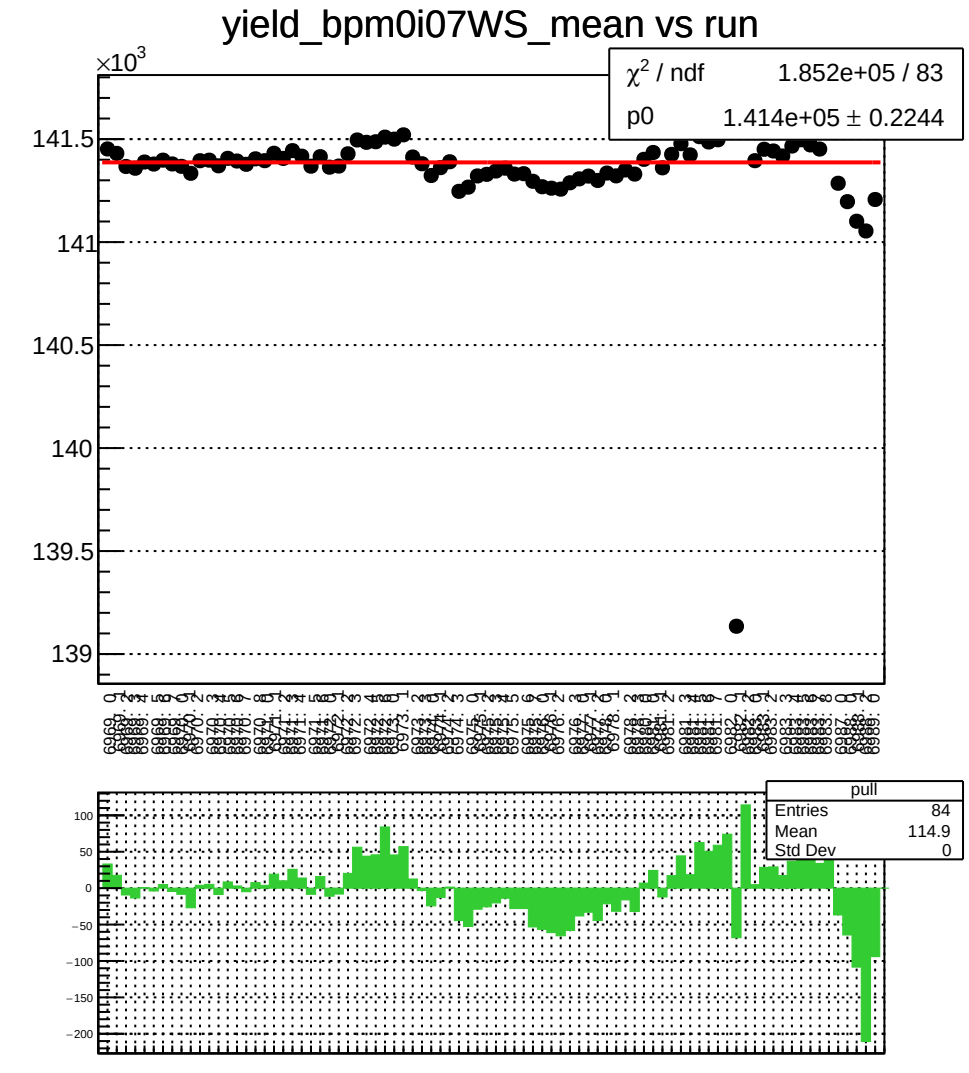

pull1D
Entries 84
Mean −0.6567
Std Dev 3.742
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

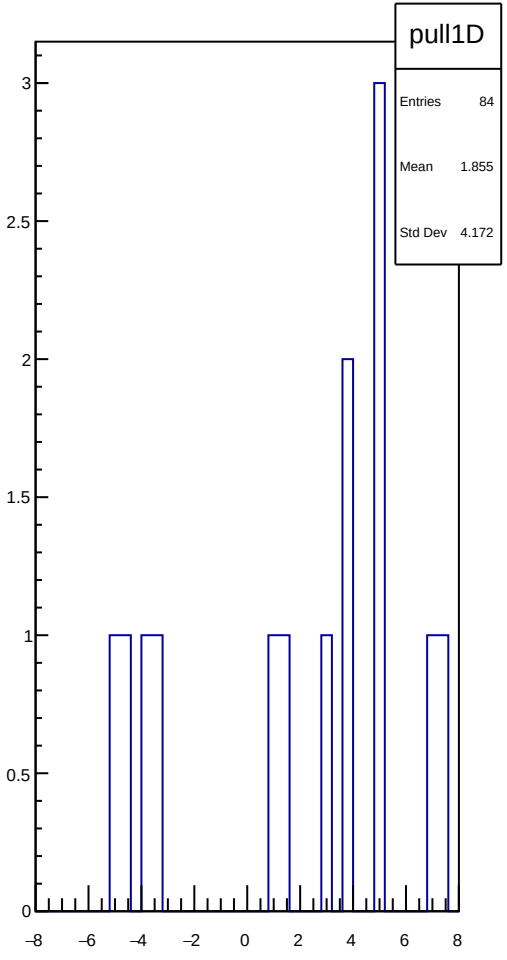

yield_bpm0i02aWS_rms vs run
χ² / ndf 5.39e+04 / 83
p0 201.1 ± 0.158
3000
2500
2000
1500
1000
500

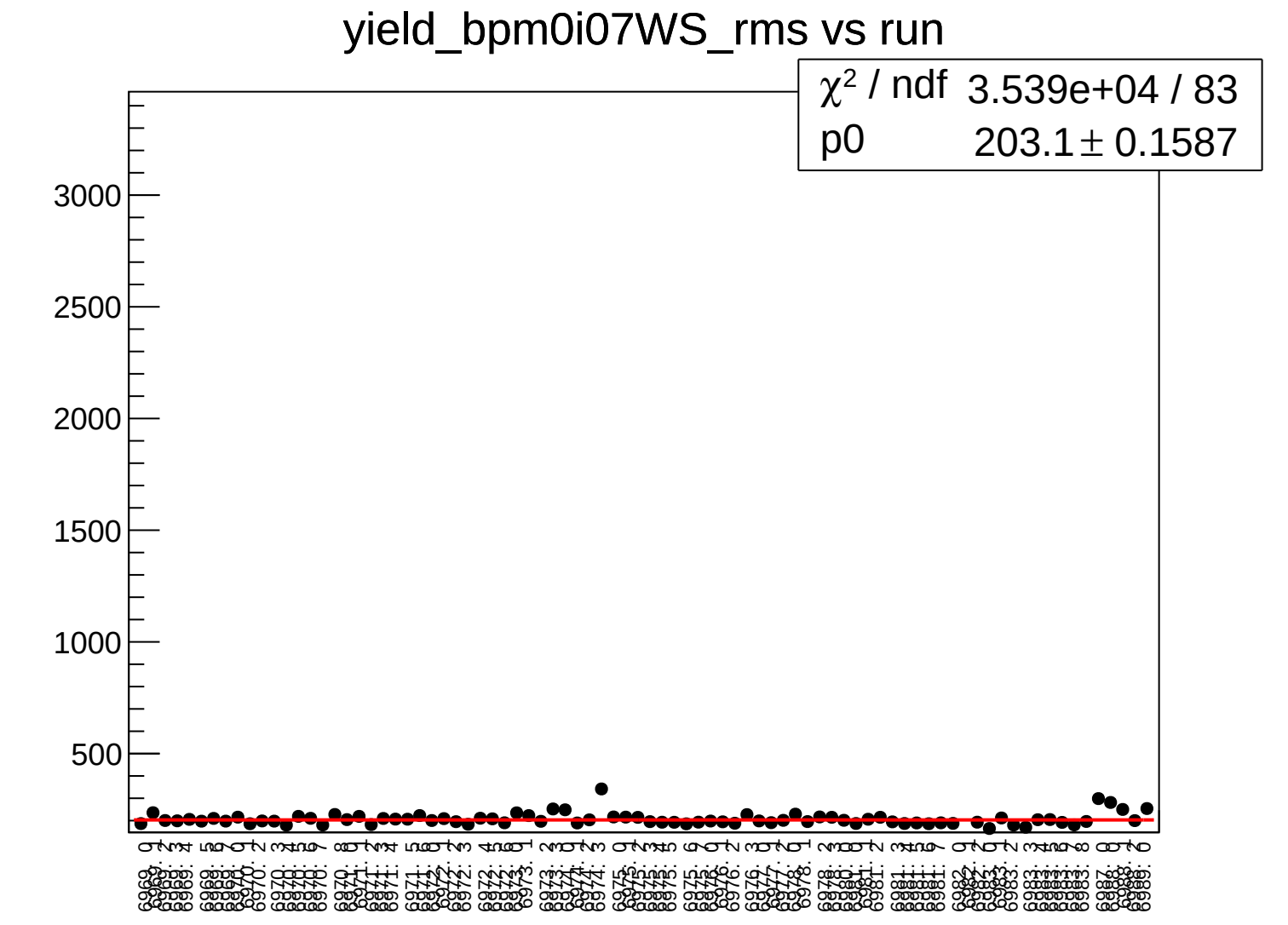

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 6.399e+06 / 83
p0 1.403e+05 ± 0.2322
141
140
139
138
137
pull
Entries 84
Mean −955.7
Std Dev 0
400
200
0
−200
−400
−600

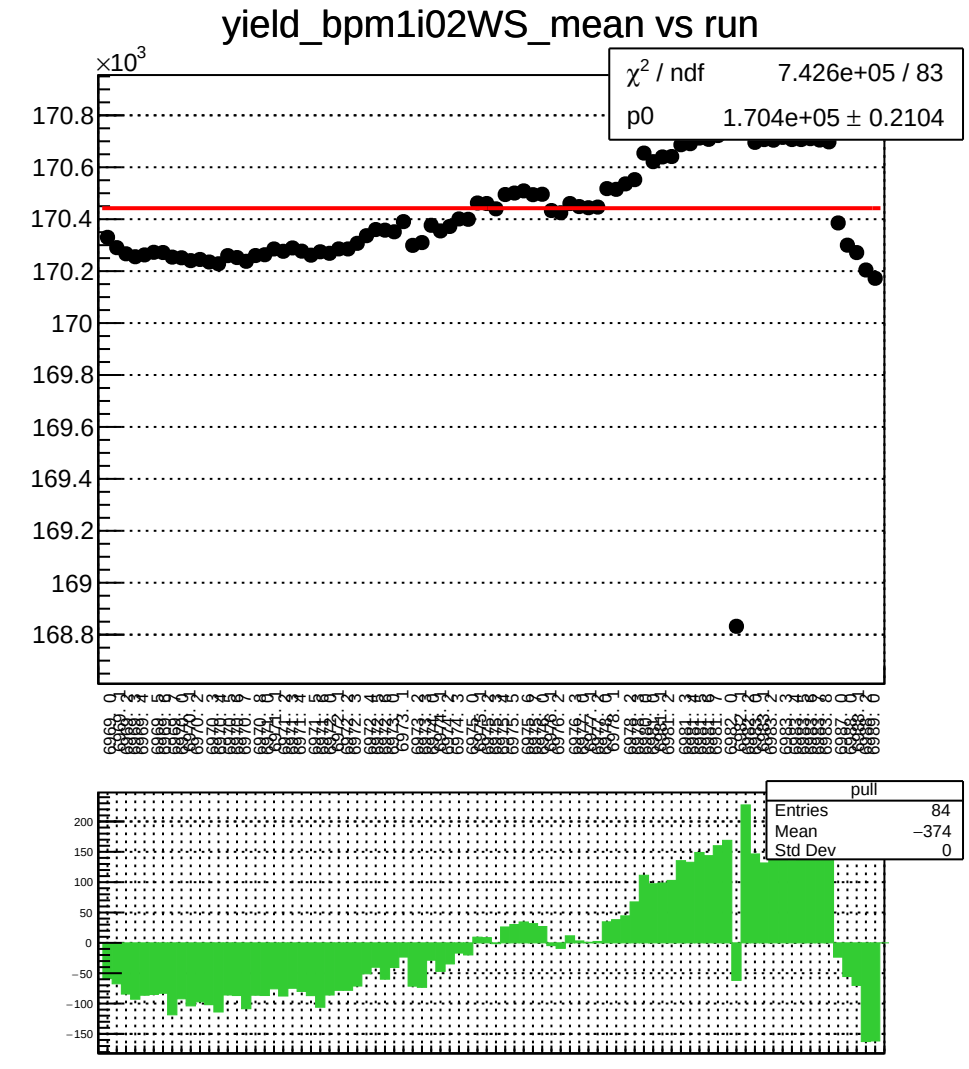

pull1D
Entries 84
Mean 0.0728
Std Dev 7.377
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

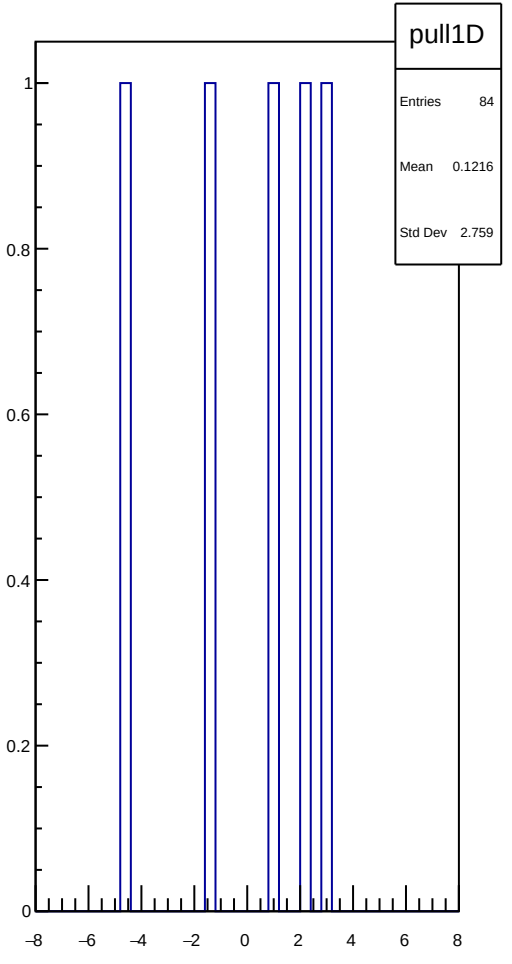

yield_bpm0i05WS_rms vs run
χ² / ndf 6.778e+04 / 83
p0 208.1 ± 0.1642
3000
2500
2000
1500
1000
500

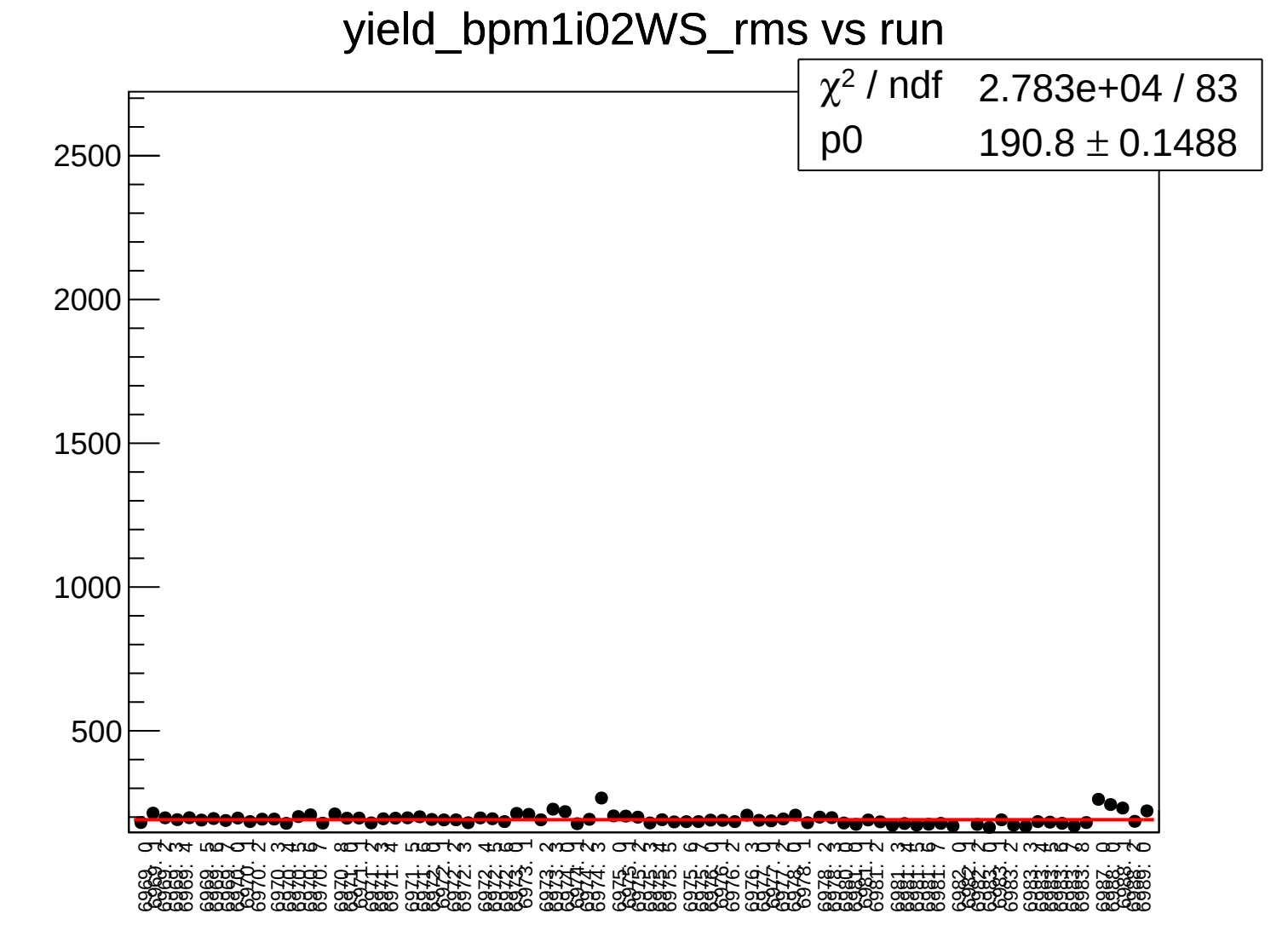

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.852e+05 / 83
p0 1.414e+05 ± 0.2244
141.5
141
140.5
140
139.5
139
pull
Entries 84
Mean 114.9
Std Dev 0
100
50
0
−50
−100
−150
−200

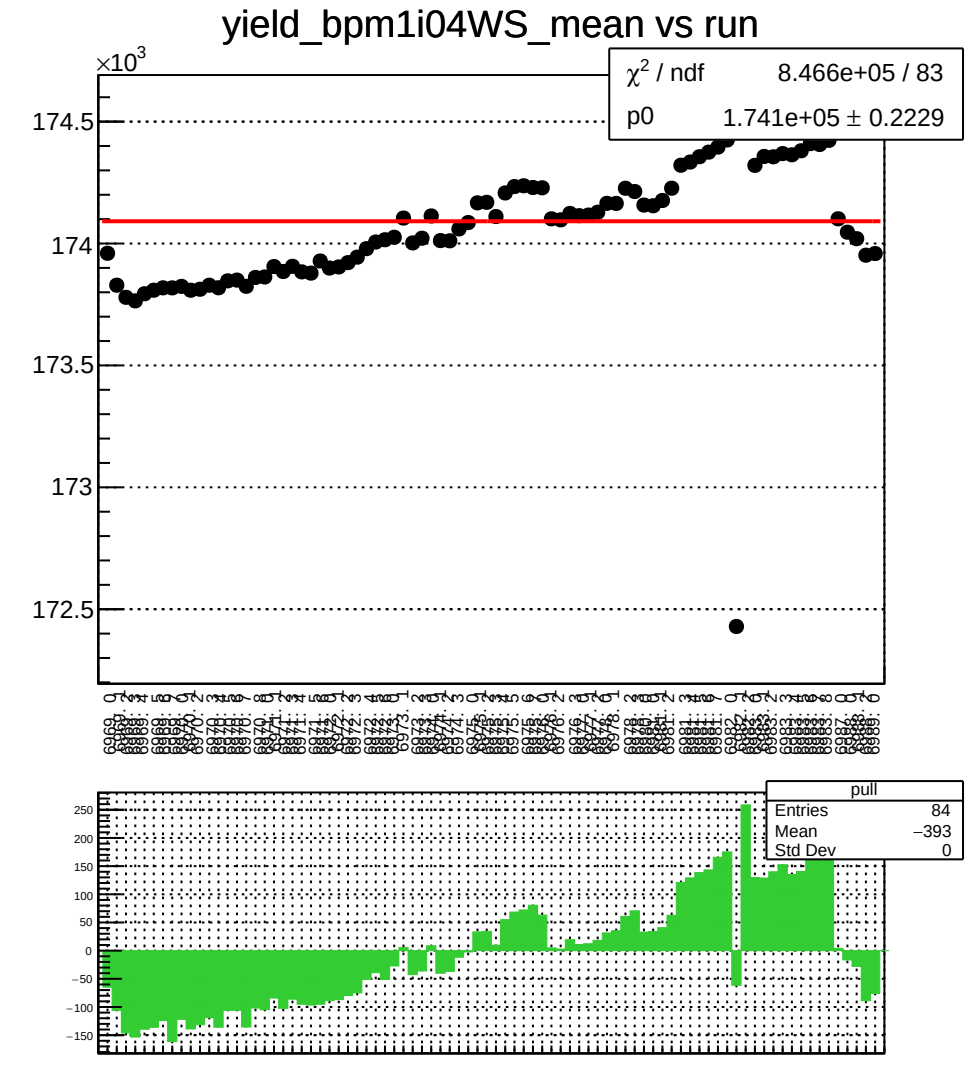

pull1D
Entries 84
Mean 1.855
Std Dev 4.172
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

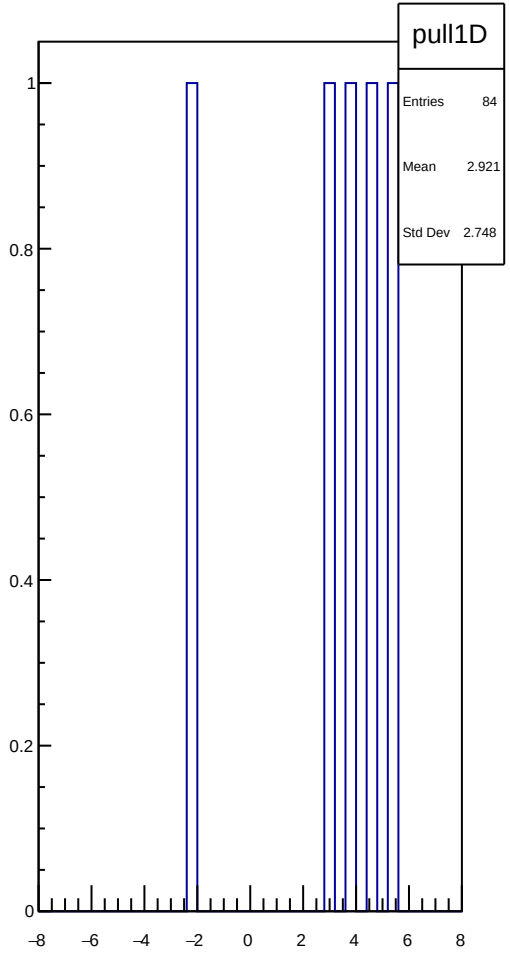

yield_bpm0i07WS_rms vs run
χ² / ndf 3.539e+04 / 83
p0 203.1 ± 0.1587
3000
2500
2000
1500
1000
500

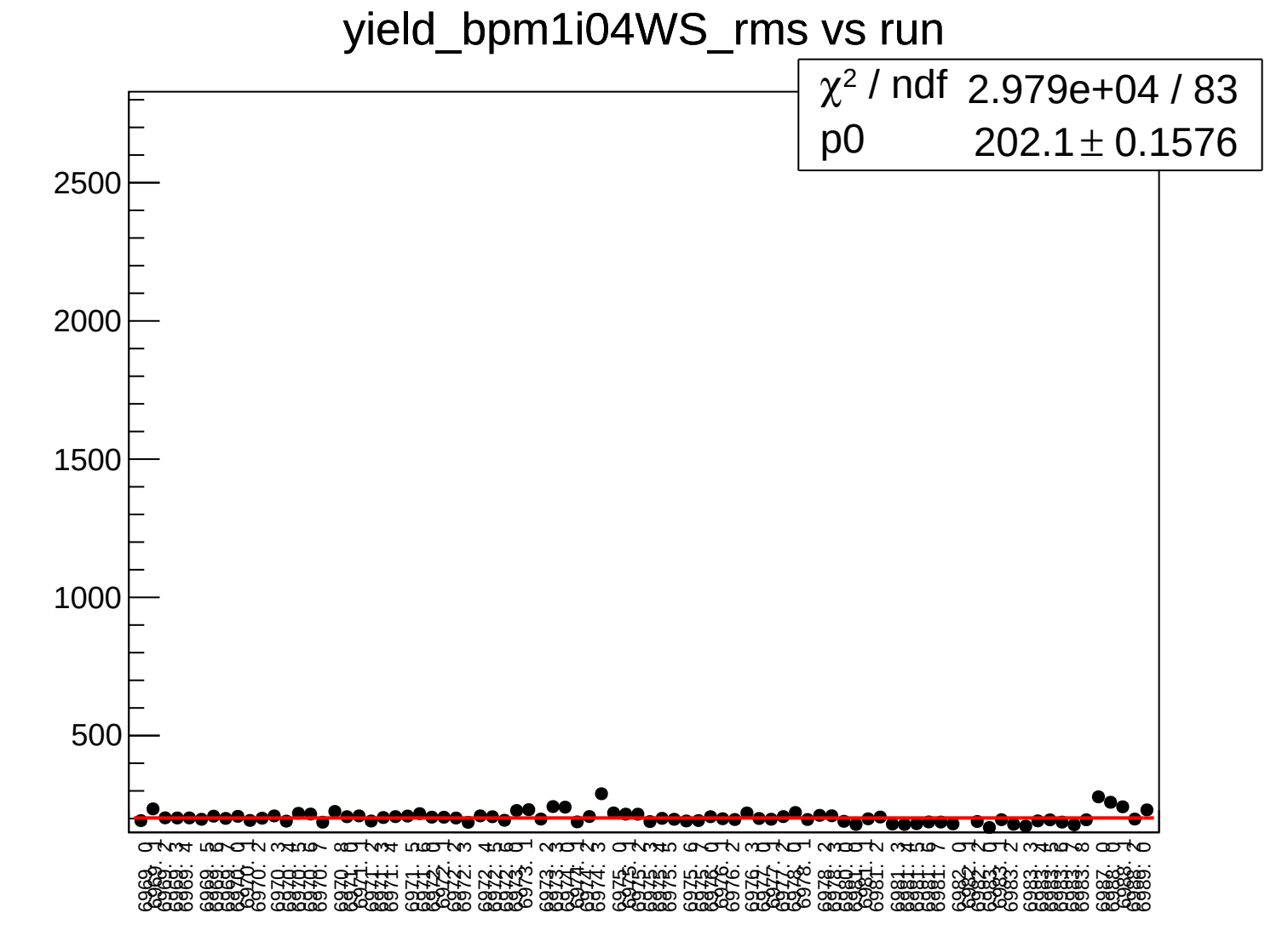

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 7.426e+05 / 83
p0 1.704e+05 ± 0.2104
170.8
170.6
170.4
170.2
170
169.8
169.6
169.4
169.2
169
168.8
pull
Entries 84
Mean −374
Std Dev 0
200
150
100
50
0
−50
−100
−150

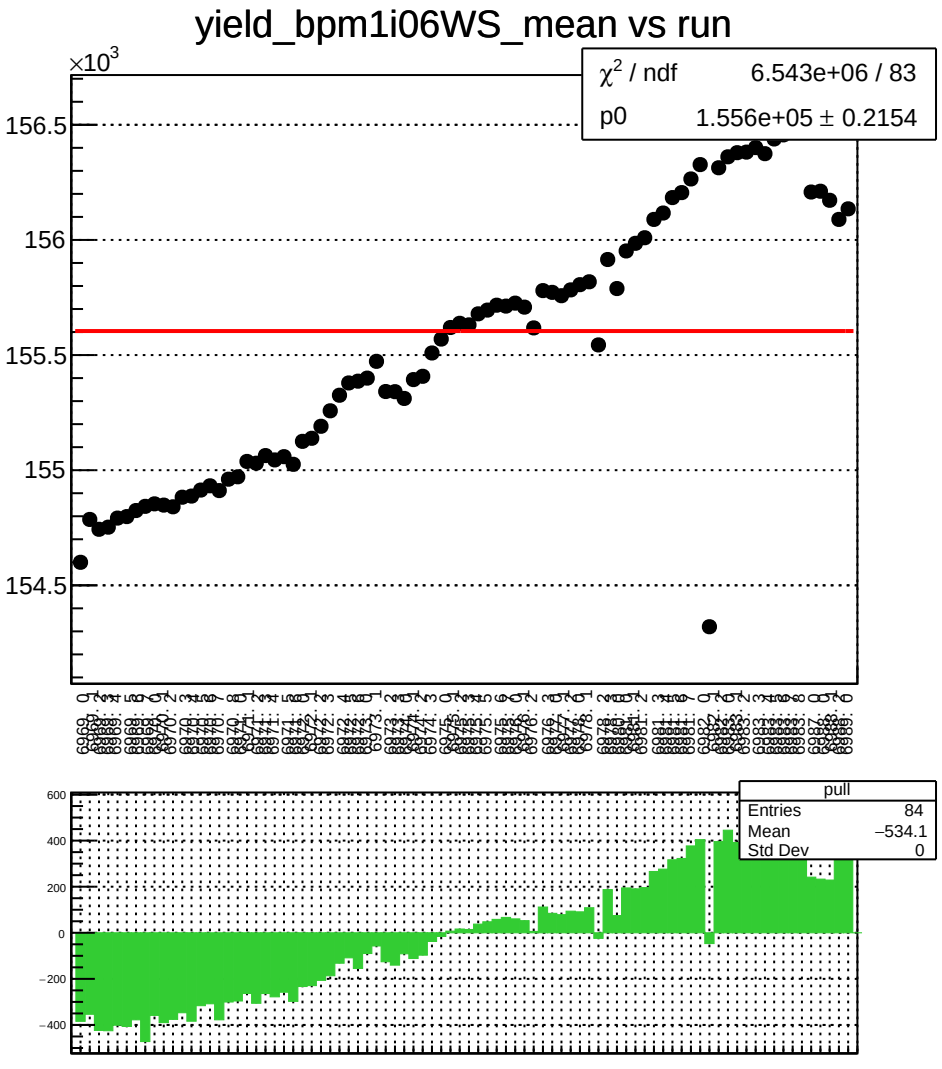

pull1D
Entries 84
Mean 0.1216
Std Dev 2.759
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

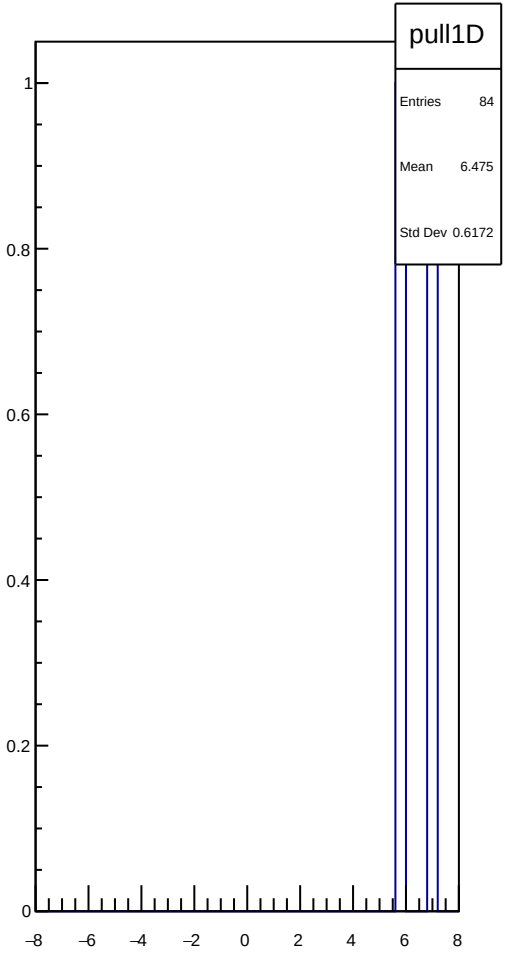

yield_bpm1i02WS_rms vs run
χ² / ndf 2.783e+04 / 83
p0 190.8 ± 0.1488
2500
2000
1500
1000
500

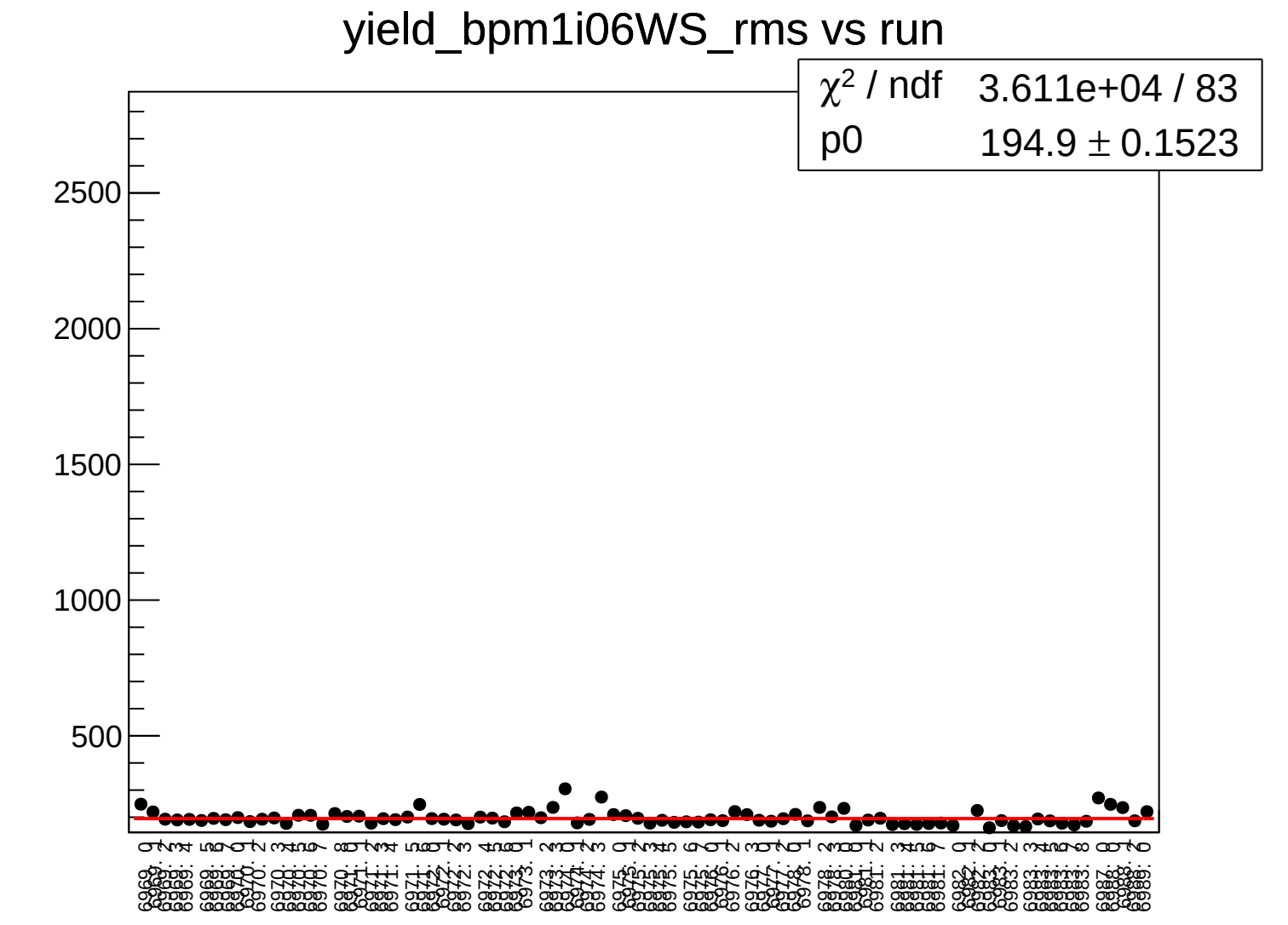

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 8.466e+05 / 83
p0 1.741e+05 ± 0.2229
174.5
174
173.5
173
172.5
pull
Entries 84
Mean −393
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

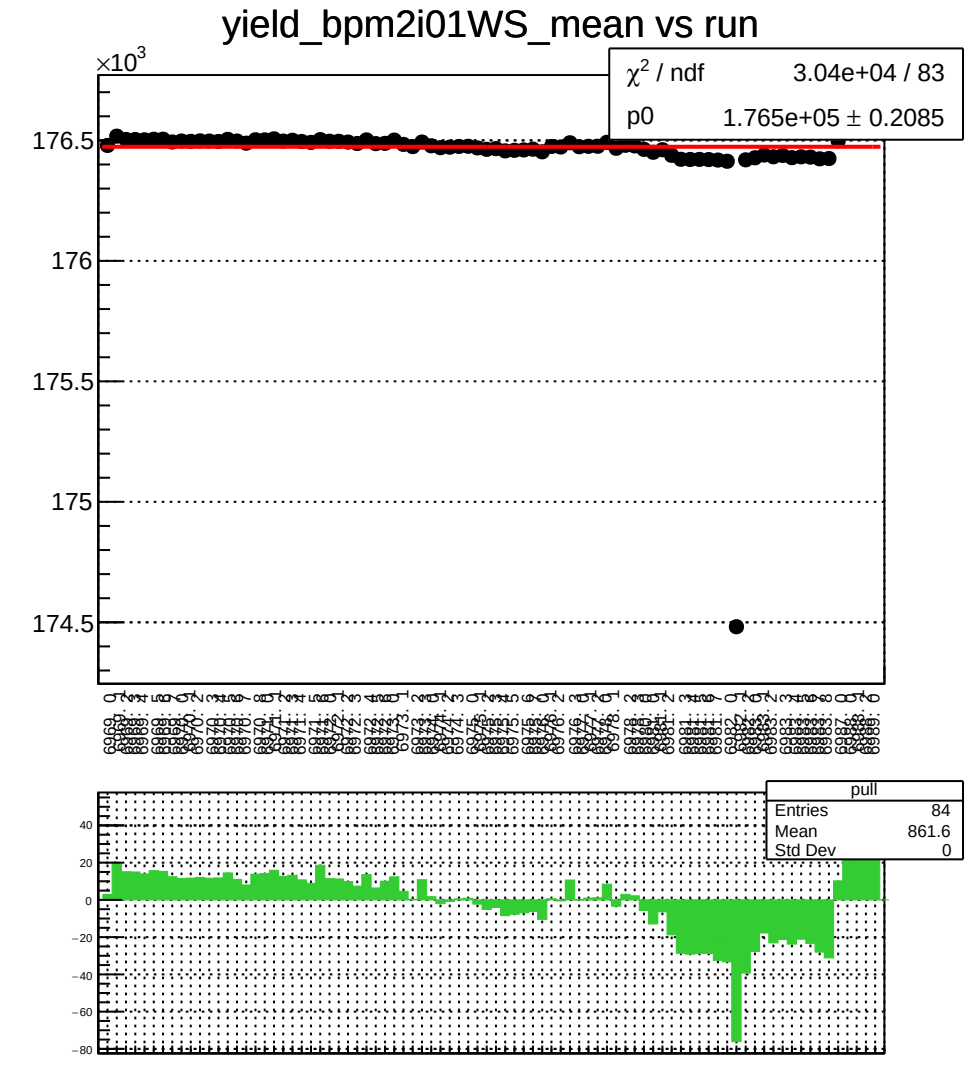

pull1D
Entries 84
Mean 2.921
Std Dev 2.748
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

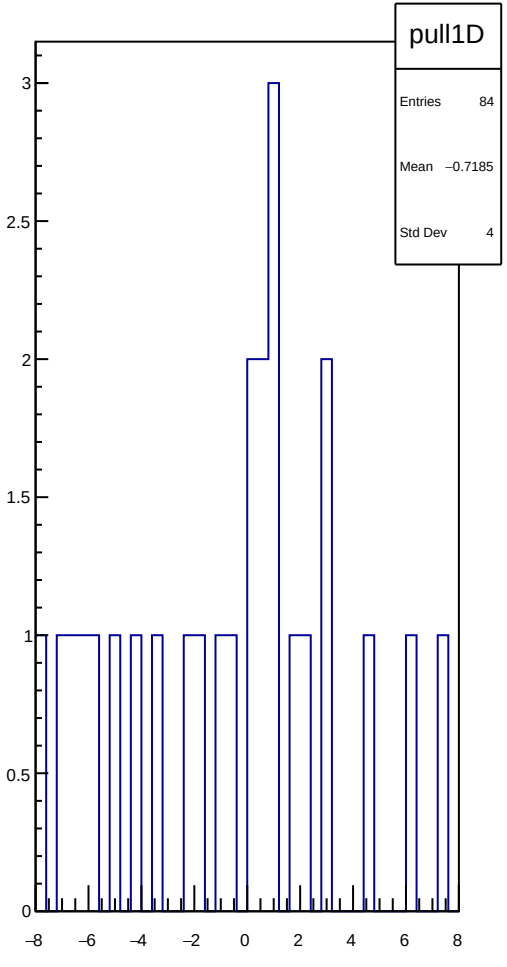

yield_bpm1i04WS_rms vs run
χ² / ndf 2.979e+04 / 83
p0 202.1 ± 0.1576
2500
2000
1500
1000
500

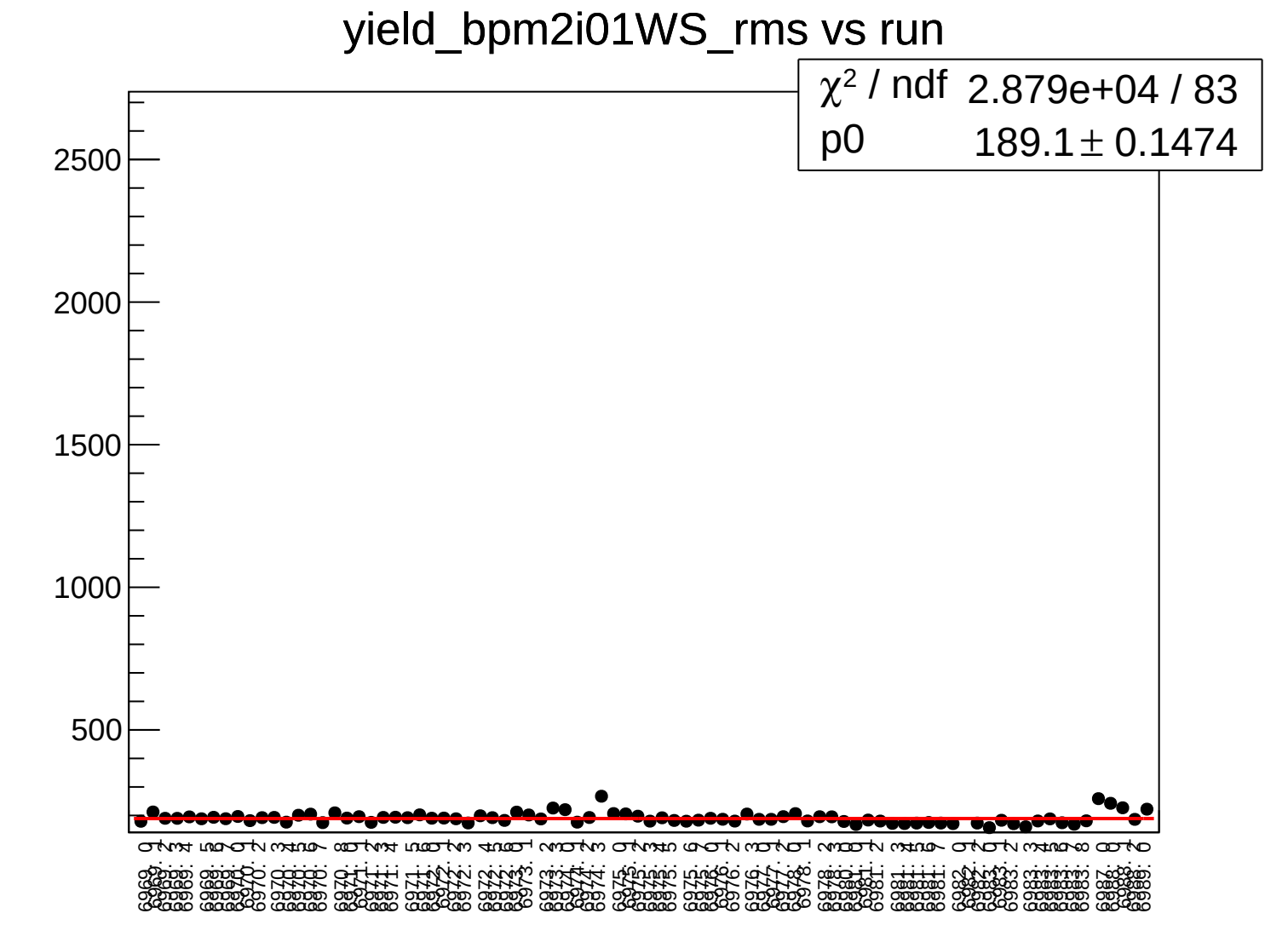

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 6.543e+06 / 83
p0 1.556e+05 ± 0.2154
156.5
156
155.5
155
154.5
pull
Entries 84
Mean −534.1
Std Dev 0
600
400
200
0
−200
−400

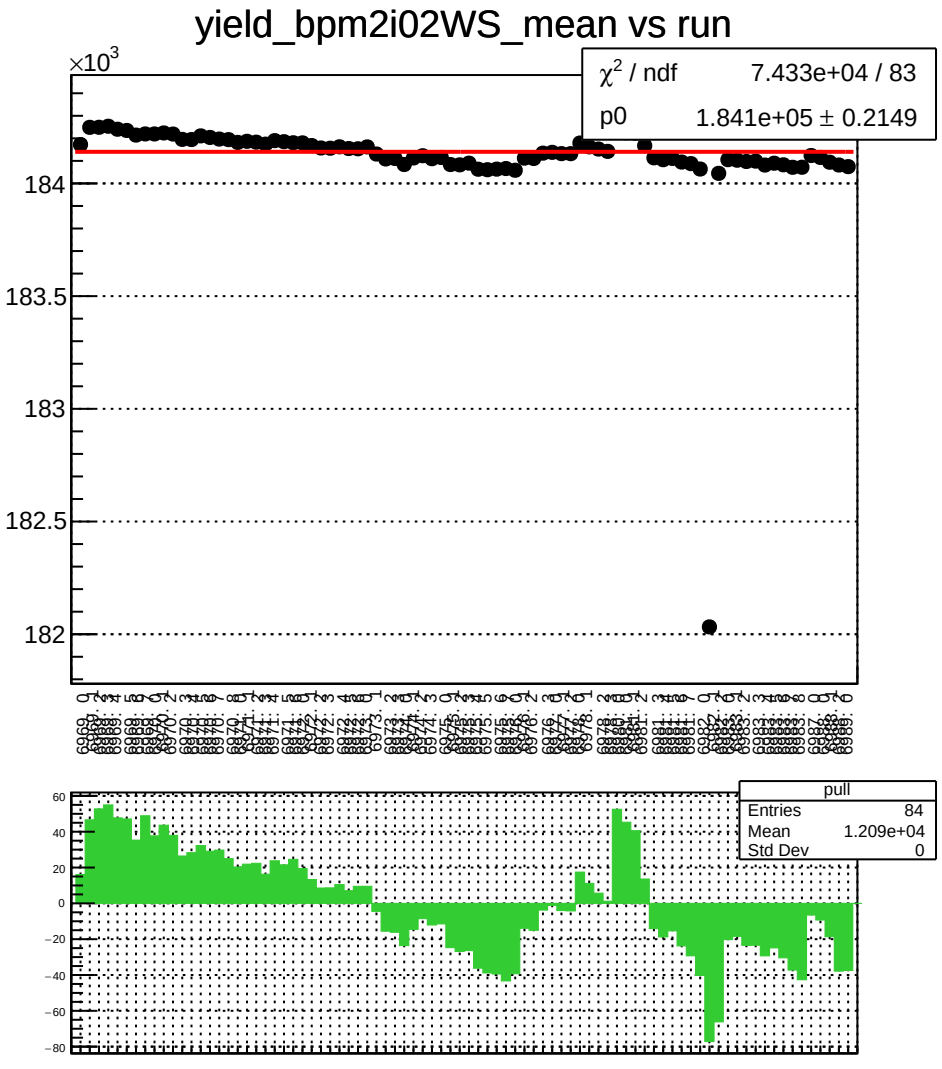

pull1D
Entries 84
Mean 6.475
Std Dev 0.6172
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

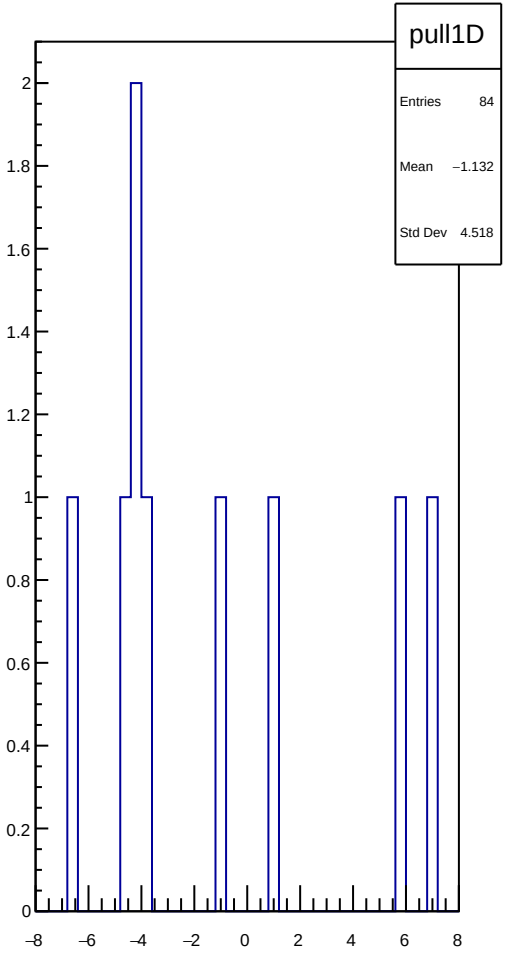

yield_bpm1i06WS_rms vs run
χ² / ndf 3.611e+04 / 83
p0 194.9 ± 0.1523
2500
2000
1500
1000
500

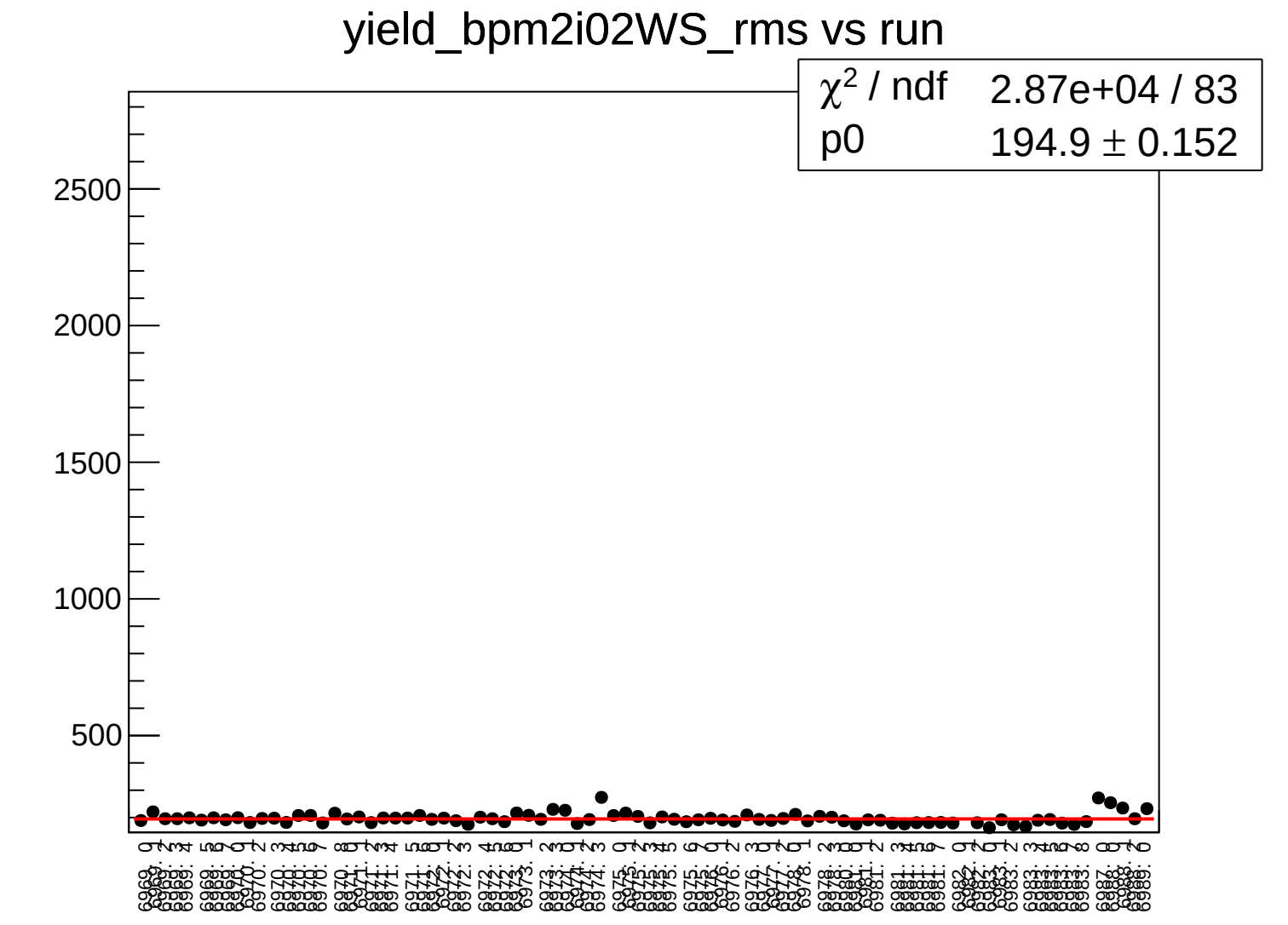

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.04e+04 / 83
p0 1.765e+05 ± 0.2085
176.5
176
175.5
175
174.5
pull
Entries 84
Mean 861.6
Std Dev 0
40
20
0
−20
−40
−60
−80

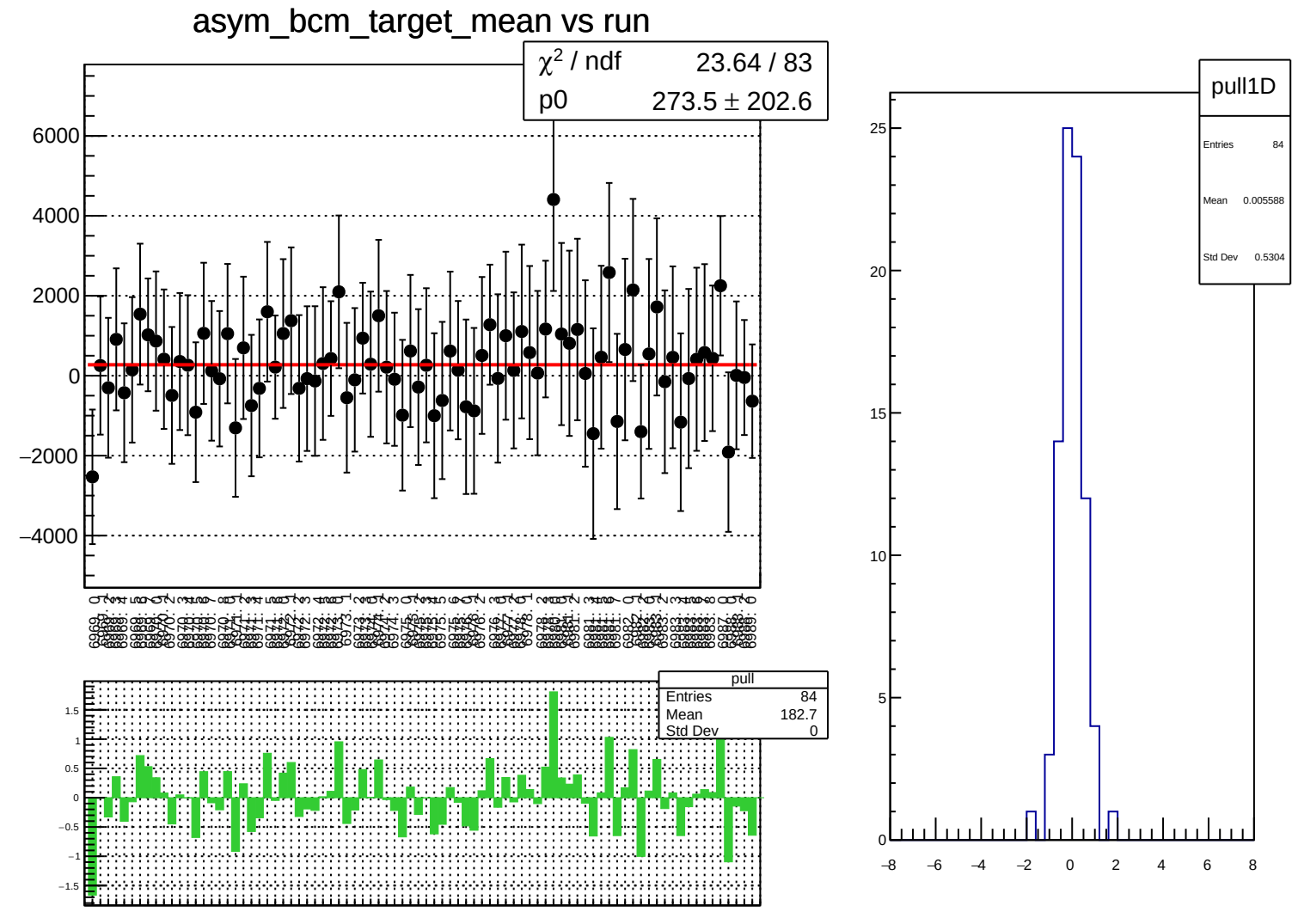

pull1D
Entries 84
Mean −0.7185
Std Dev 4
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

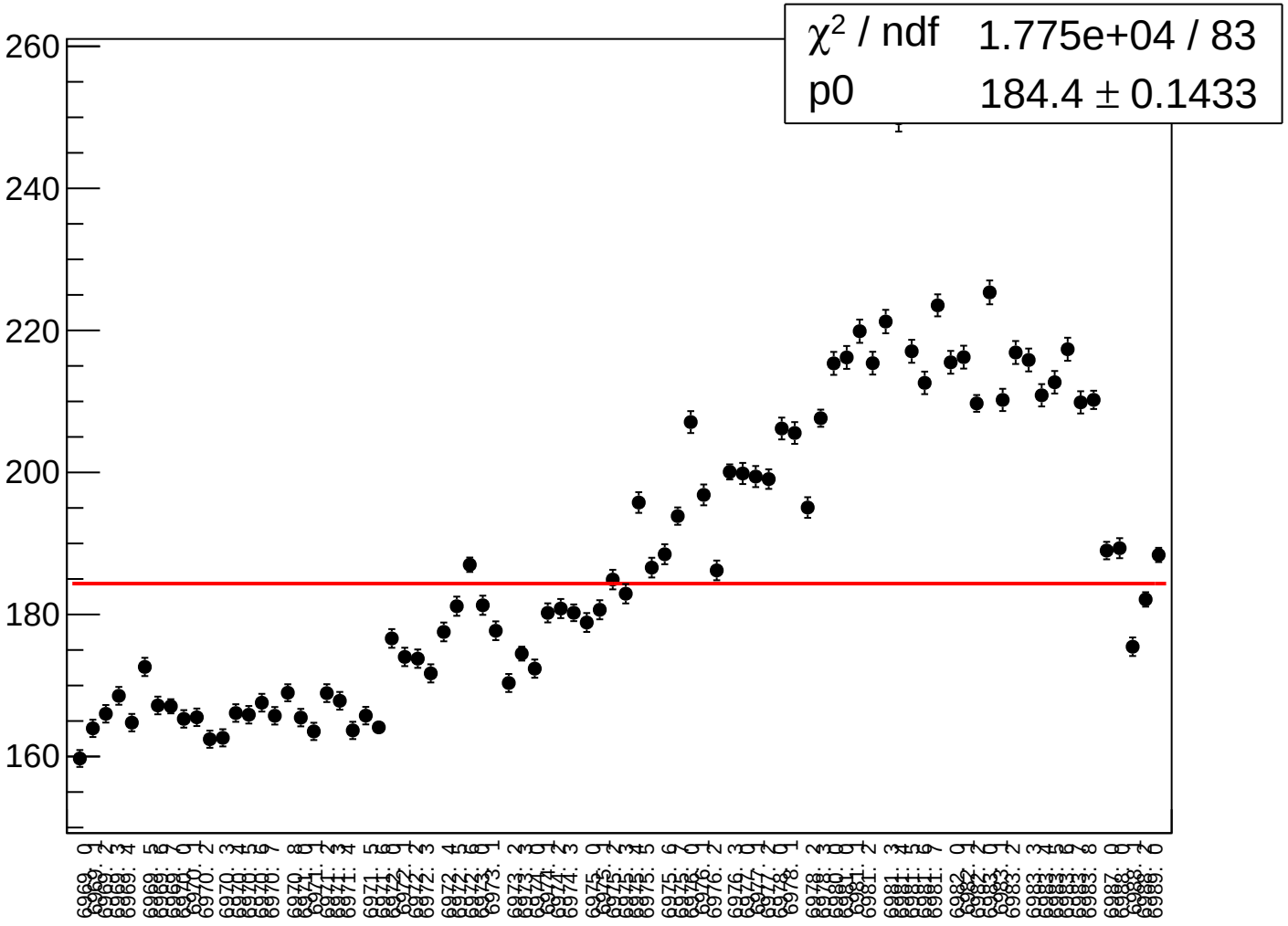

yield_bpm2i01WS_rms vs run
χ² / ndf 2.879e+04 / 83
p0 189.1 ± 0.1474
2500
2000
1500
1000
500

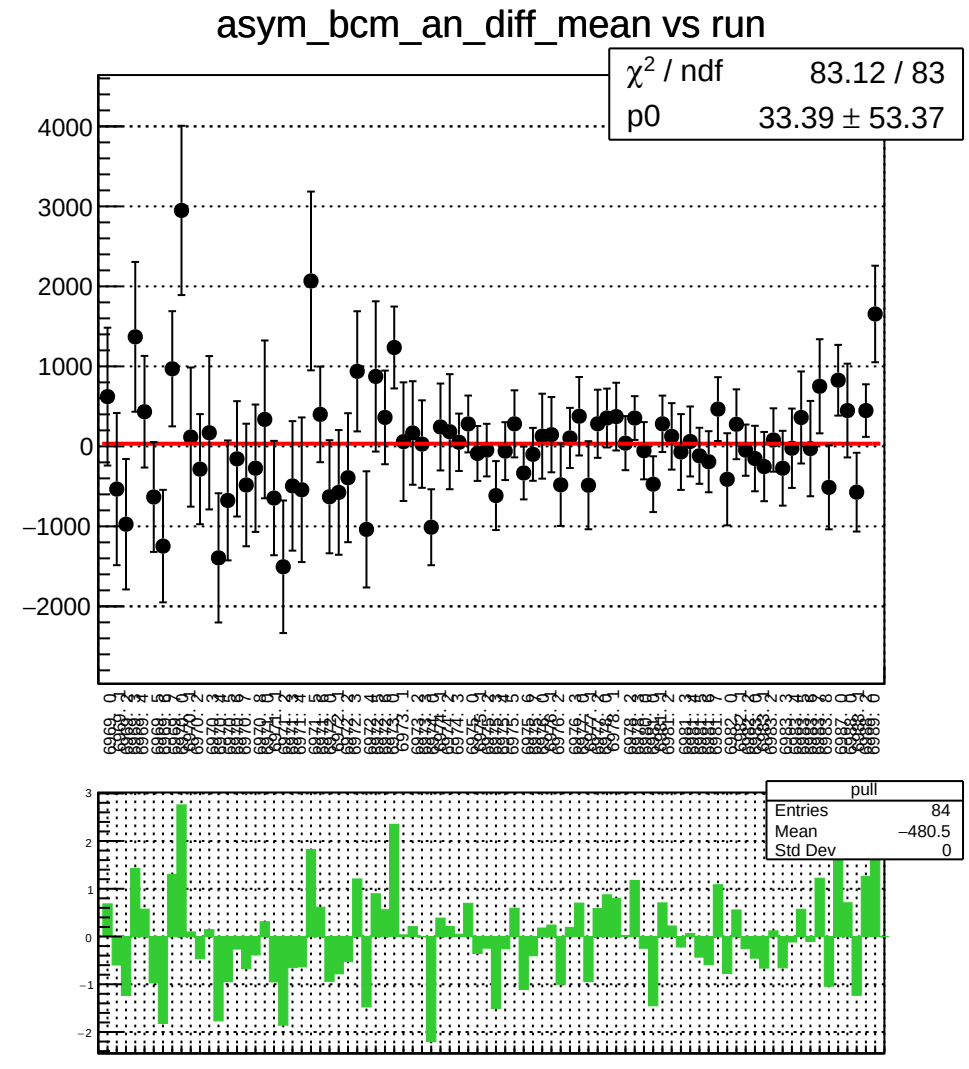

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 7.433e+04 / 83
p0 1.841e+05 ± 0.2149
184
183.5
183
182.5
182
pull
Entries 84
Mean 1.209e+04
Std Dev 0
60
40
20
0
−20
−40
−60
−80

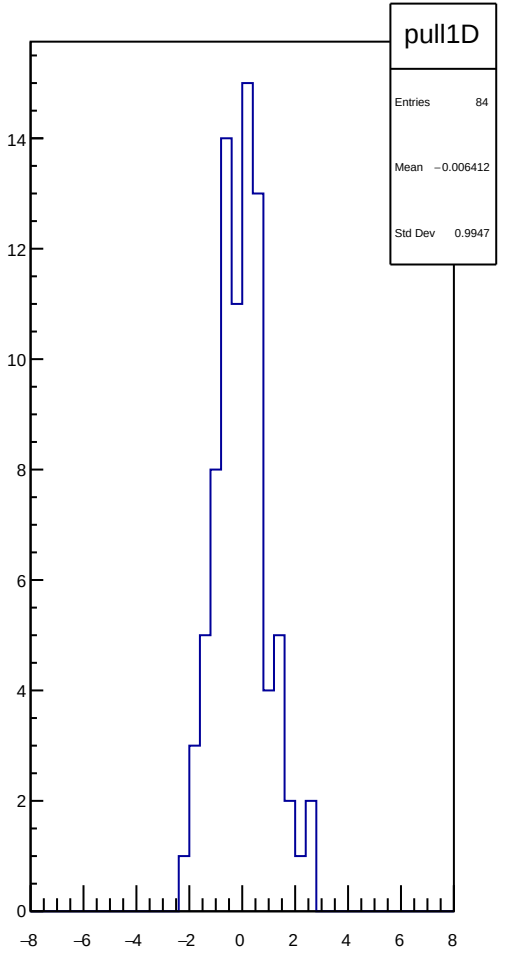

pull1D
Entries 84
Mean −1.132
Std Dev 4.518
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

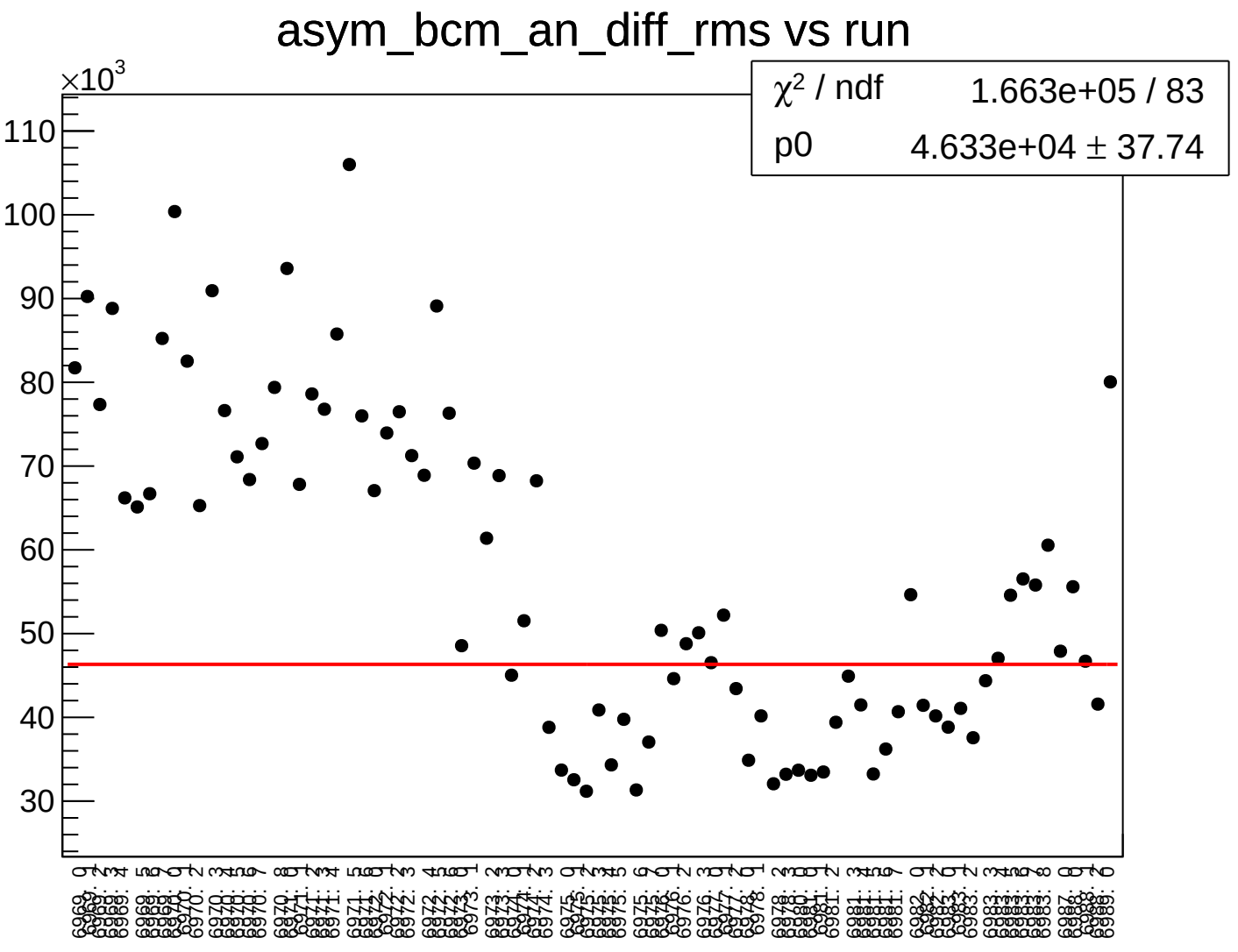

yield_bpm2i02WS_rms vs run
χ² / ndf 2.87e+04 / 83
p0 194.9 ± 0.152
2500
2000
1500
1000
500

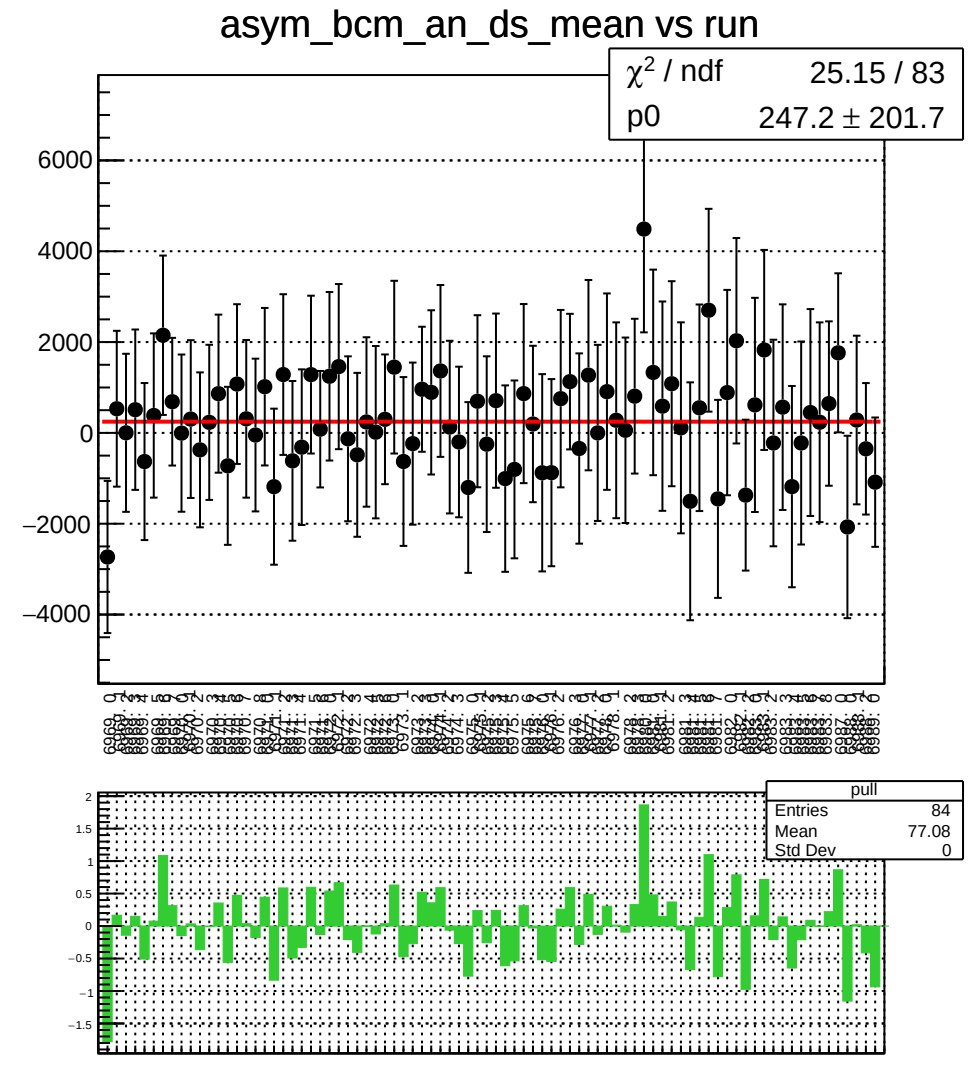

asym_bcm_target_mean vs run
χ² / ndf 23.64 / 83
p0 273.5 ± 202.6
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 182.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.005588
Std Dev 0.5304
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

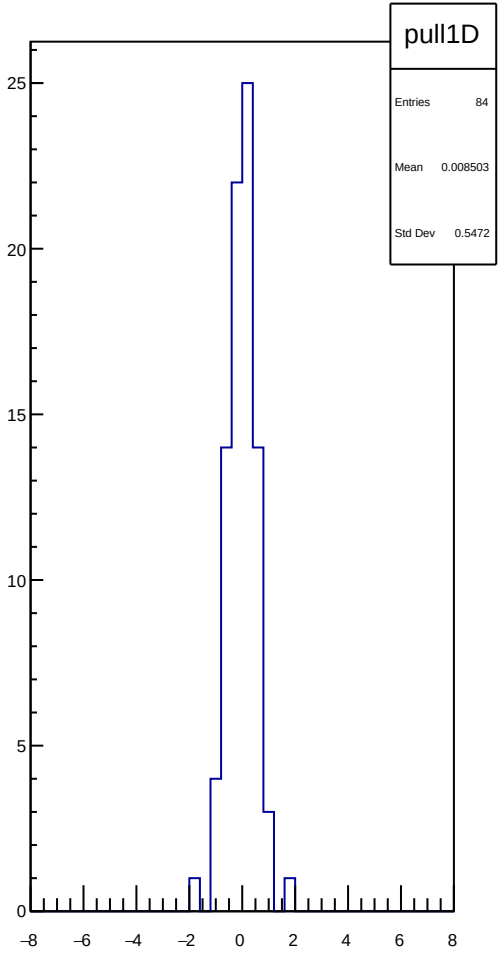

asym_bcm_target_rms vs run
χ² / ndf 1.775e+04 / 83
p0 184.4 ± 0.1433
260
240
220
200
180
160

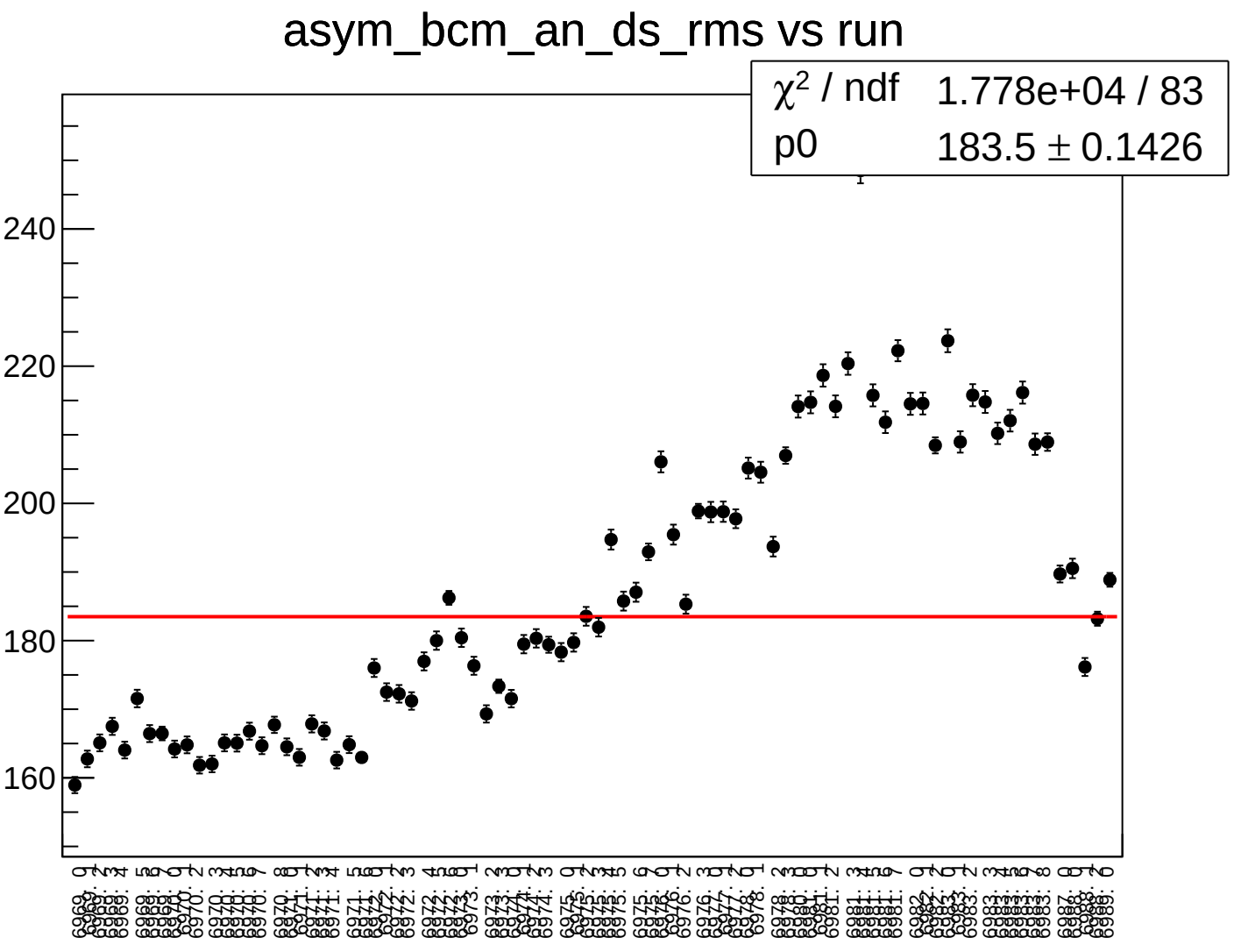

asym_bcm_an_diff_mean vs run
χ² / ndf 83.12 / 83
p0 33.39 ± 53.37
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −480.5
Std Dev 0
3
2
1
0
−1
−2

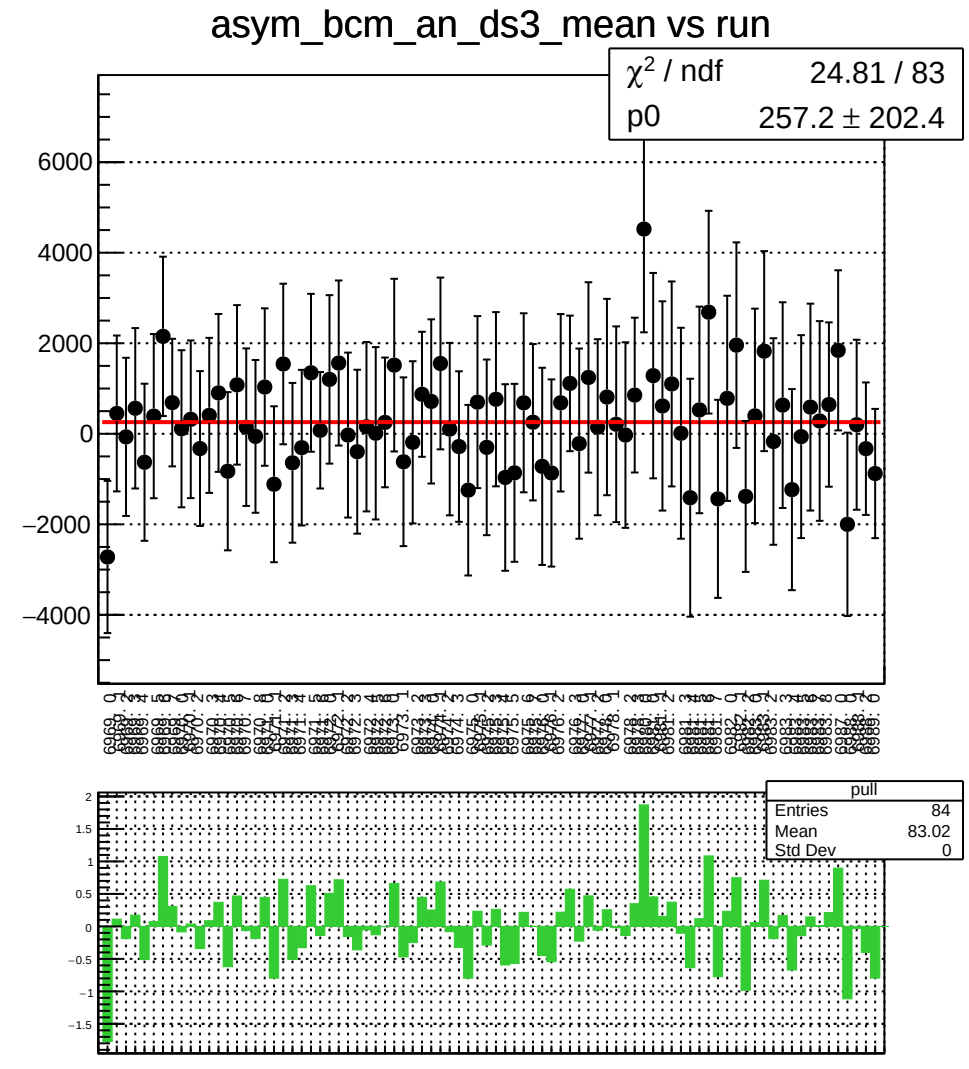

pull1D
Entries 84
Mean −0.006412
Std Dev 0.9947
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

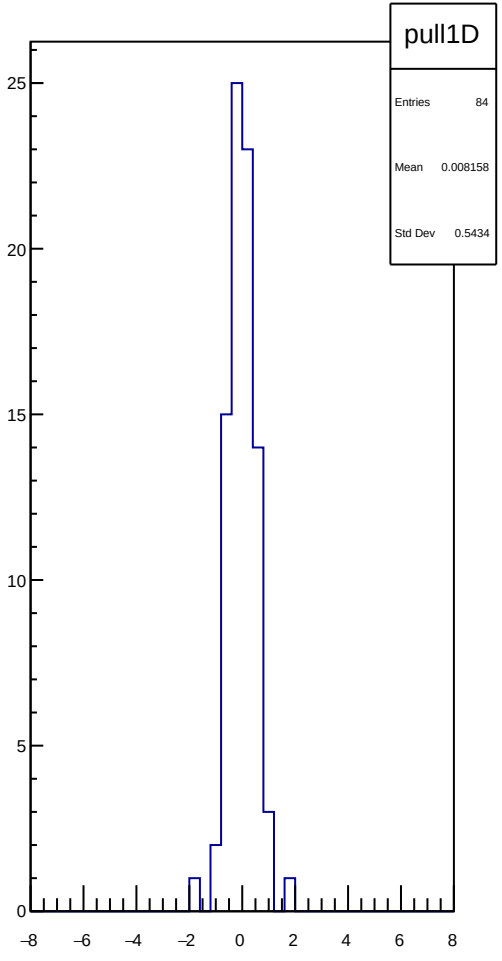

asym_bcm_an_diff_rms vs run
×10^3
110
100
90
80
70
60
50
40
30
χ² / ndf 1.663e+05 / 83
p0 4.633e+04 ± 37.74

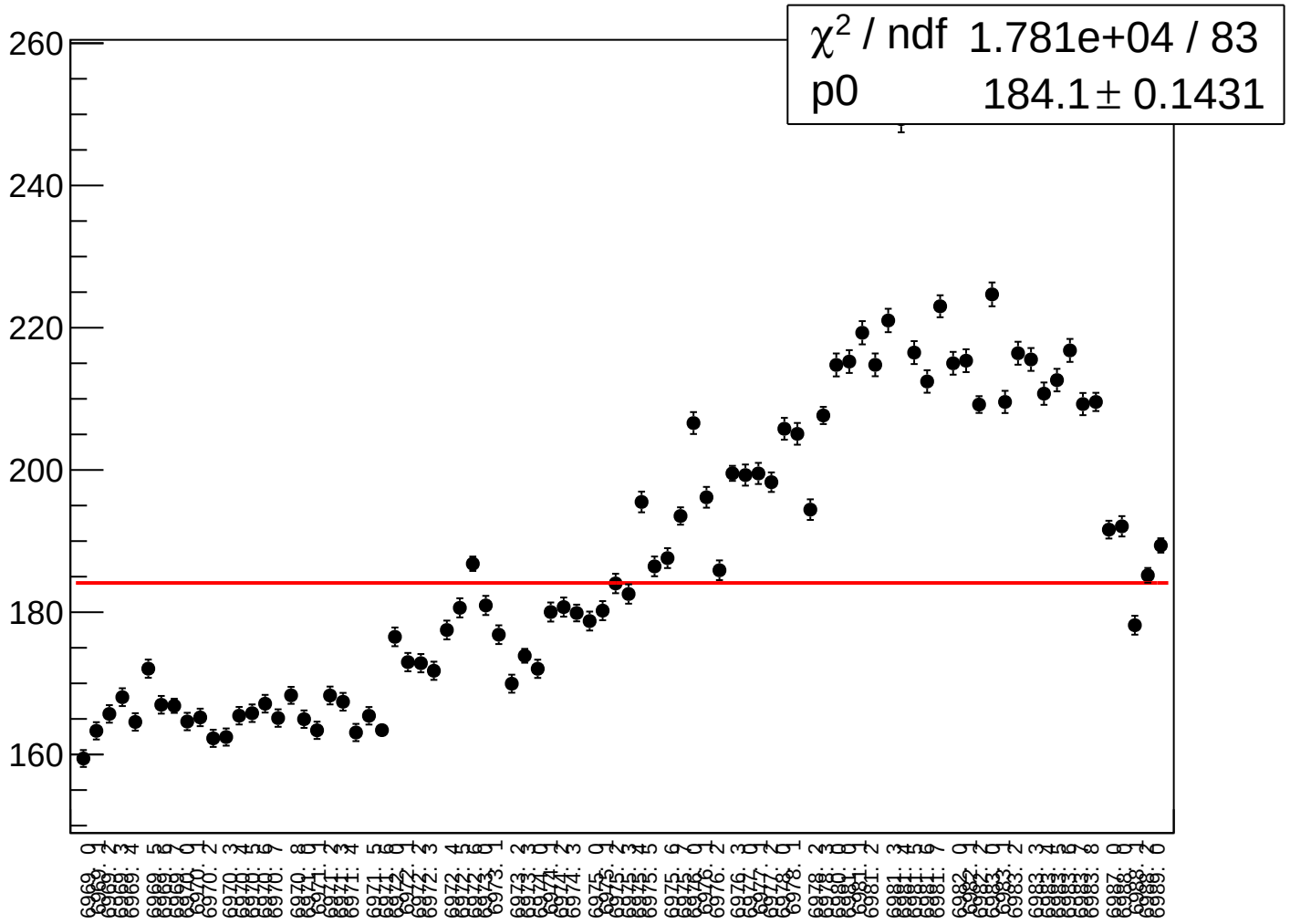

asym_bcm_an_ds_mean vs run
χ² / ndf 25.15 / 83
p0 247.2 ± 201.7
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 77.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

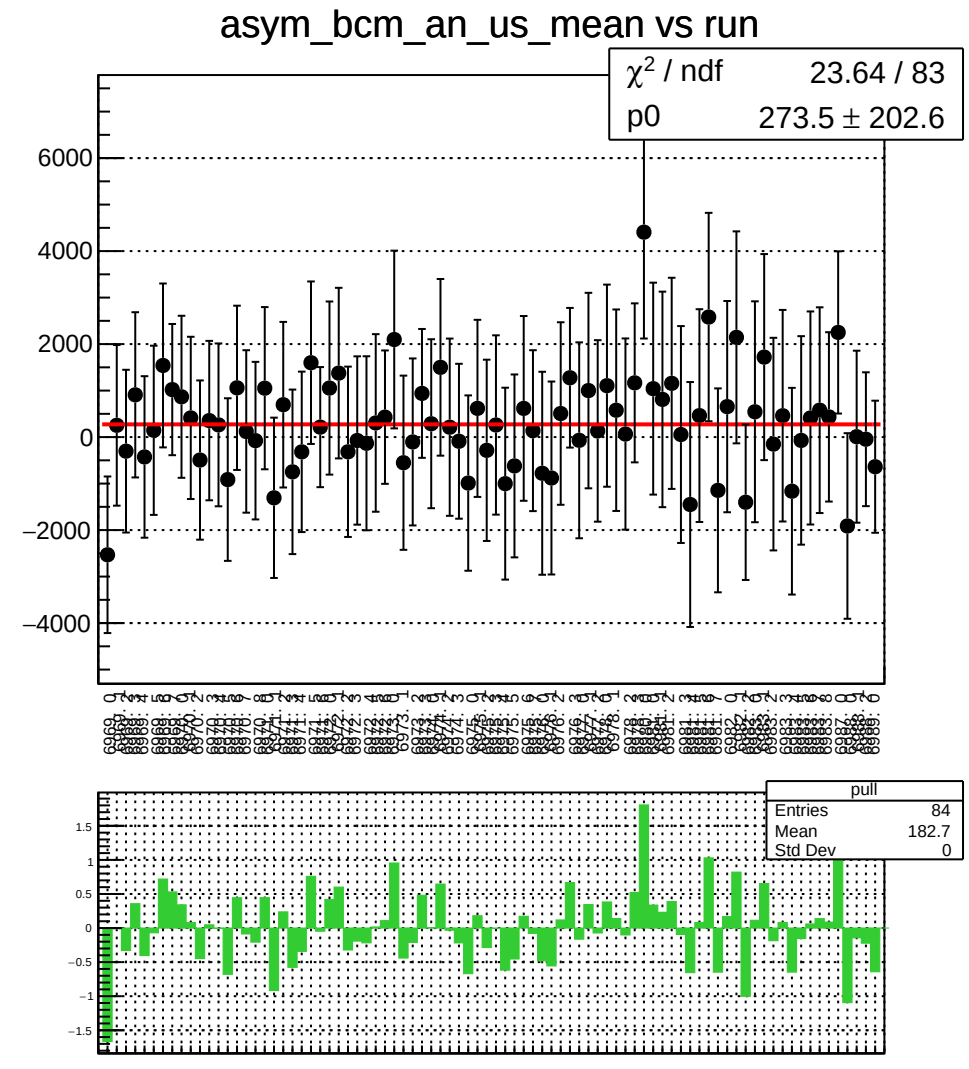

pull1D
Entries 84
Mean 0.008503
Std Dev 0.5472
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

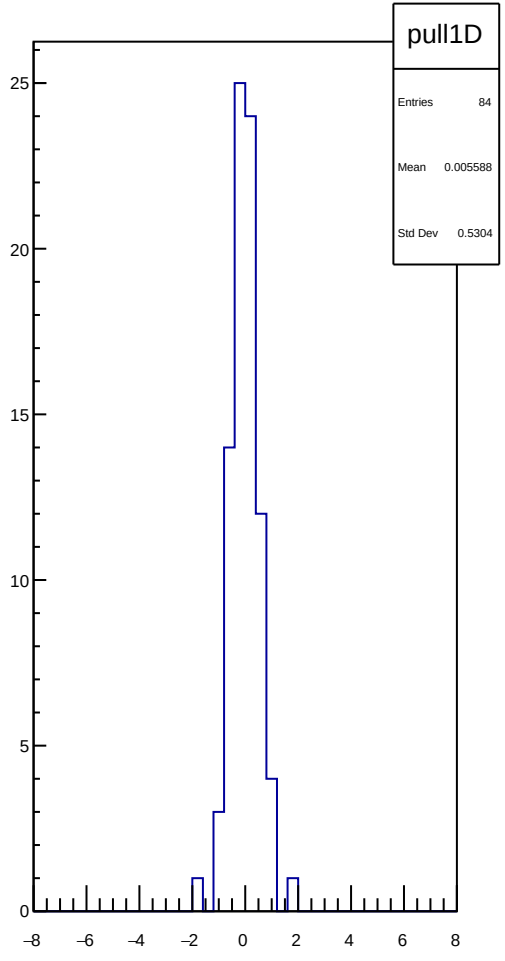

asym_bcm_an_ds_rms vs run
χ² / ndf 1.778e+04 / 83
p0 183.5 ± 0.1426
240
220
200
180
160

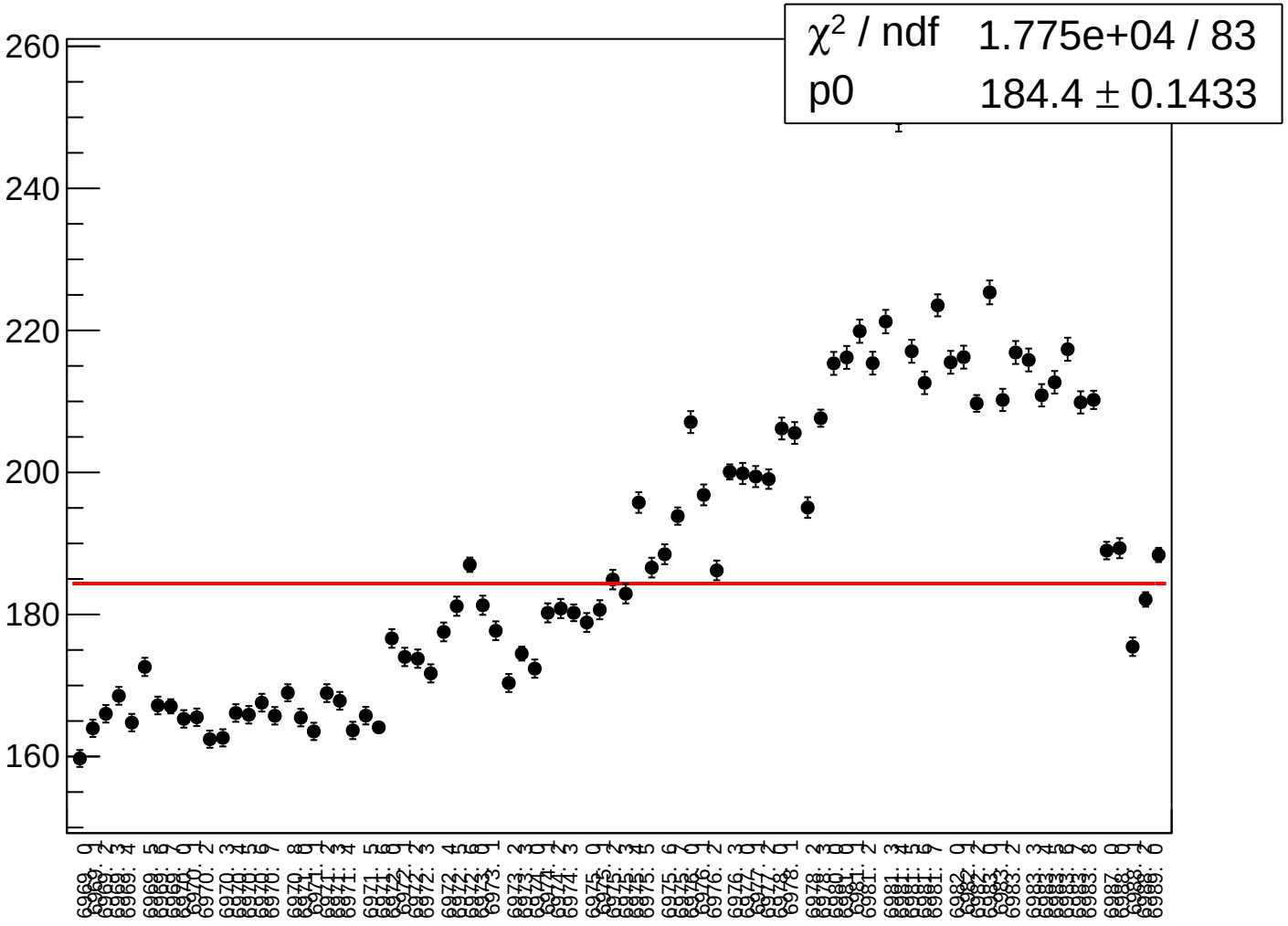

asym_bcm_an_ds3_mean vs run
χ² / ndf 24.81 / 83
p0 257.2 ± 202.4
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 83.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

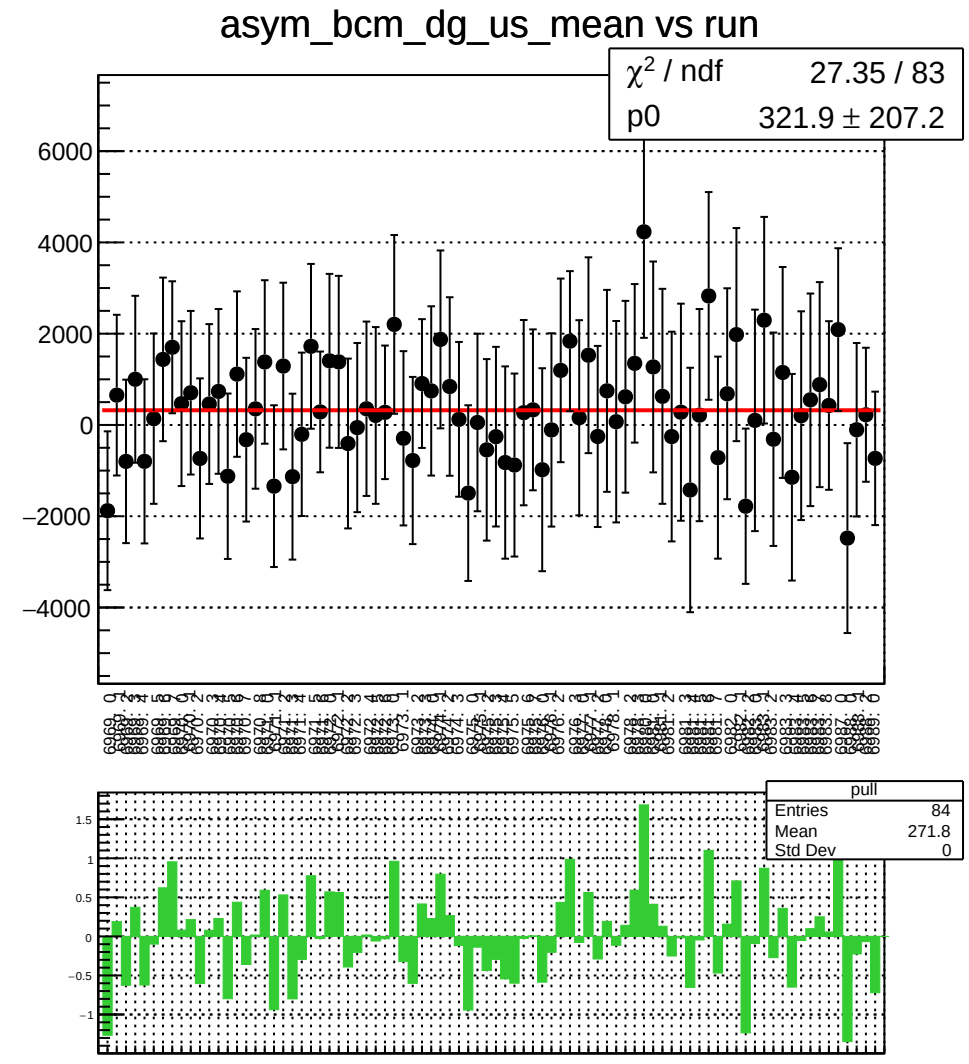

pull1D
Entries 84
Mean 0.008158
Std Dev 0.5434
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

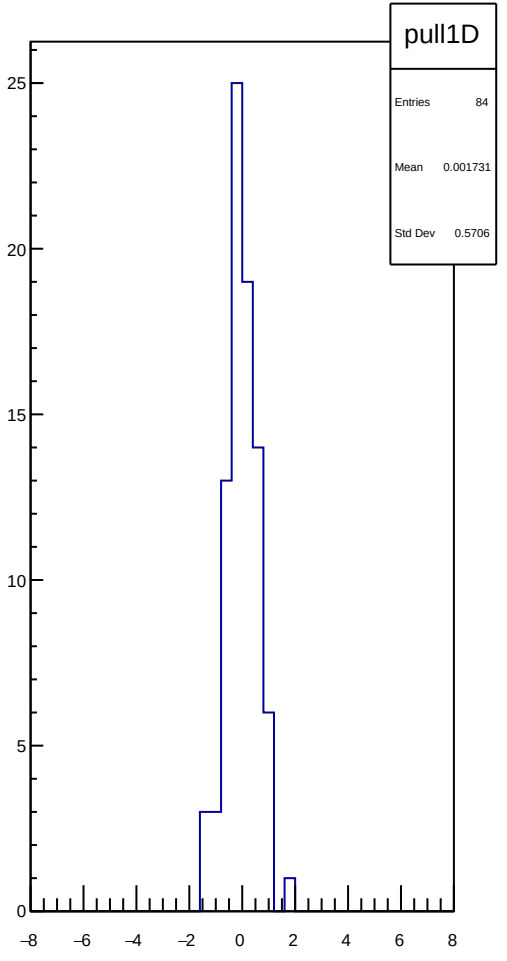

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.781e+04 / 83
p0 184.1 ± 0.1431
260
240
220
200
180
160

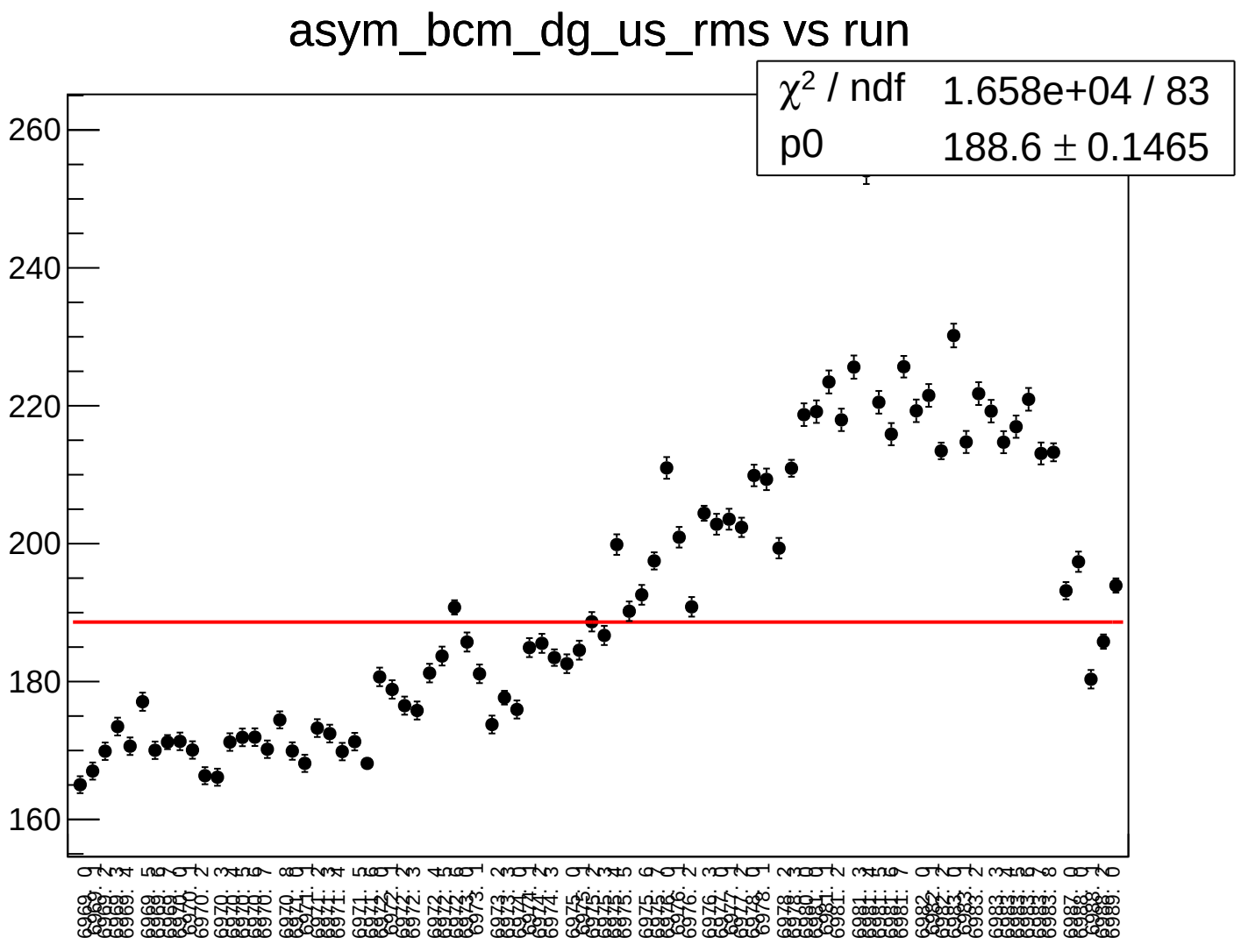

asym_bcm_an_us_mean vs run
χ² / ndf 23.64 / 83
p0 273.5 ± 202.6
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 182.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

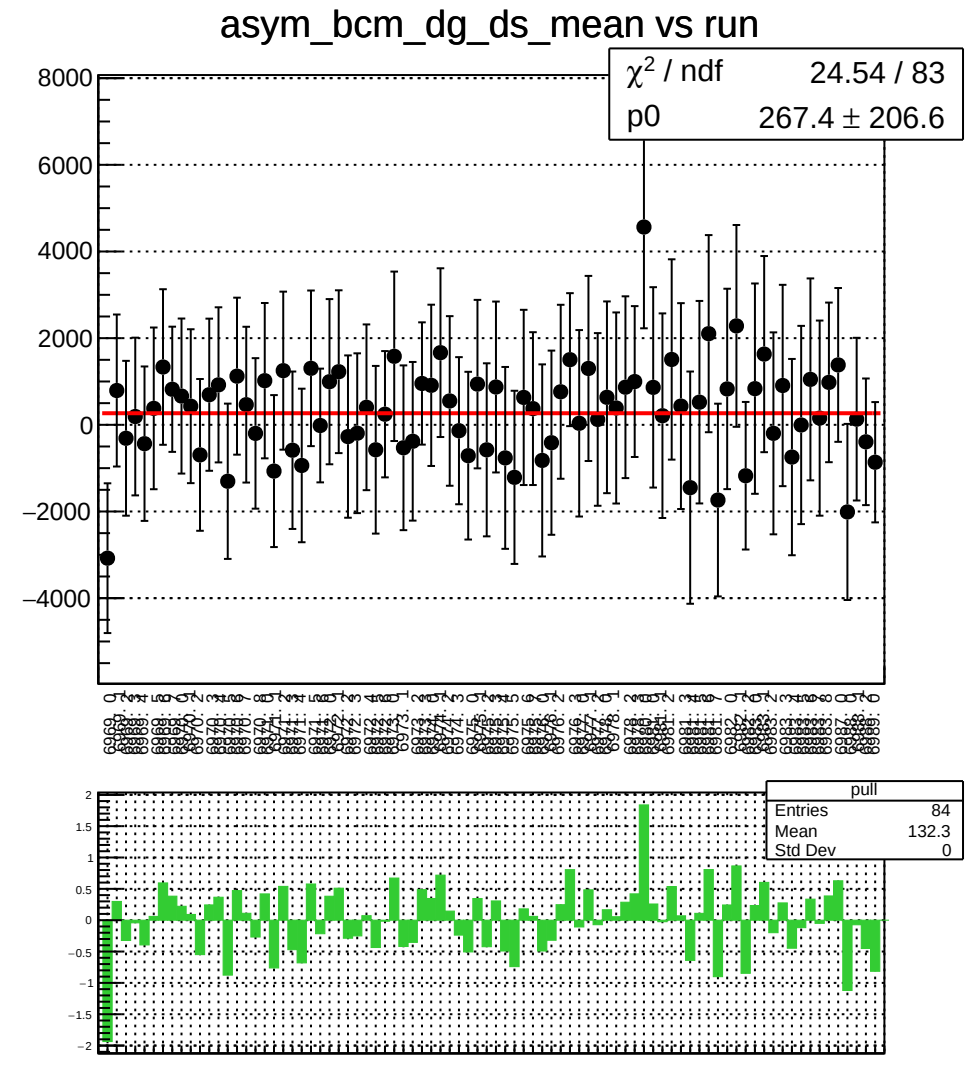

pull1D
Entries 84
Mean 0.005588
Std Dev 0.5304
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

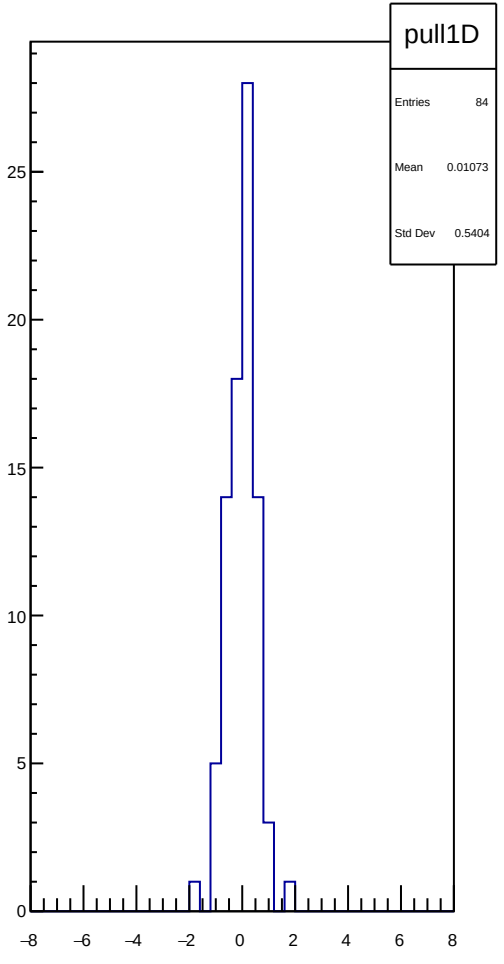

asym_bcm_an_us_rms vs run
χ² / ndf 1.775e+04 / 83
p0 184.4 ± 0.1433
260
240
220
200
180
160

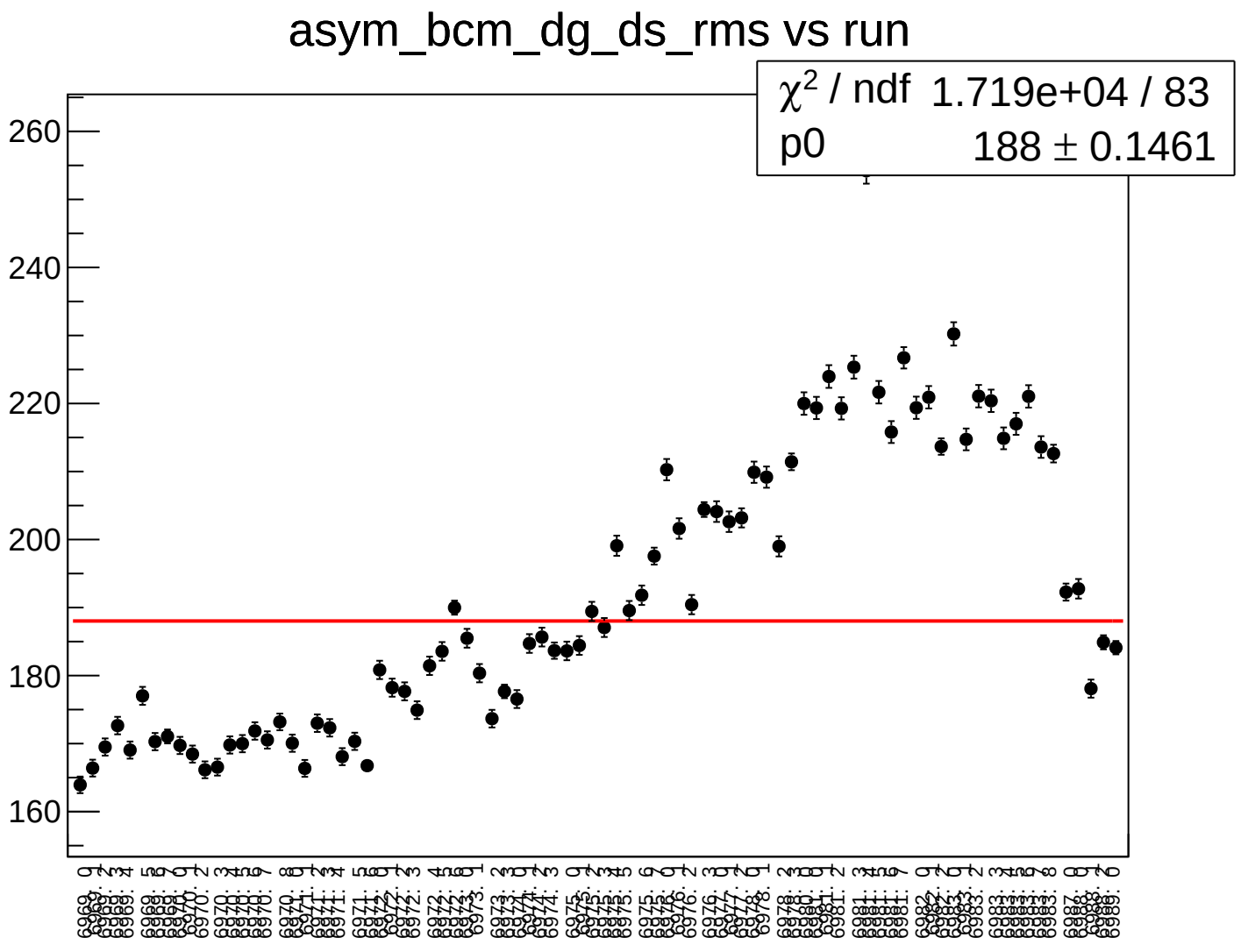

asym_bcm_dg_us_mean vs run
χ² / ndf 27.35 / 83
p0 321.9 ± 207.2
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 271.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

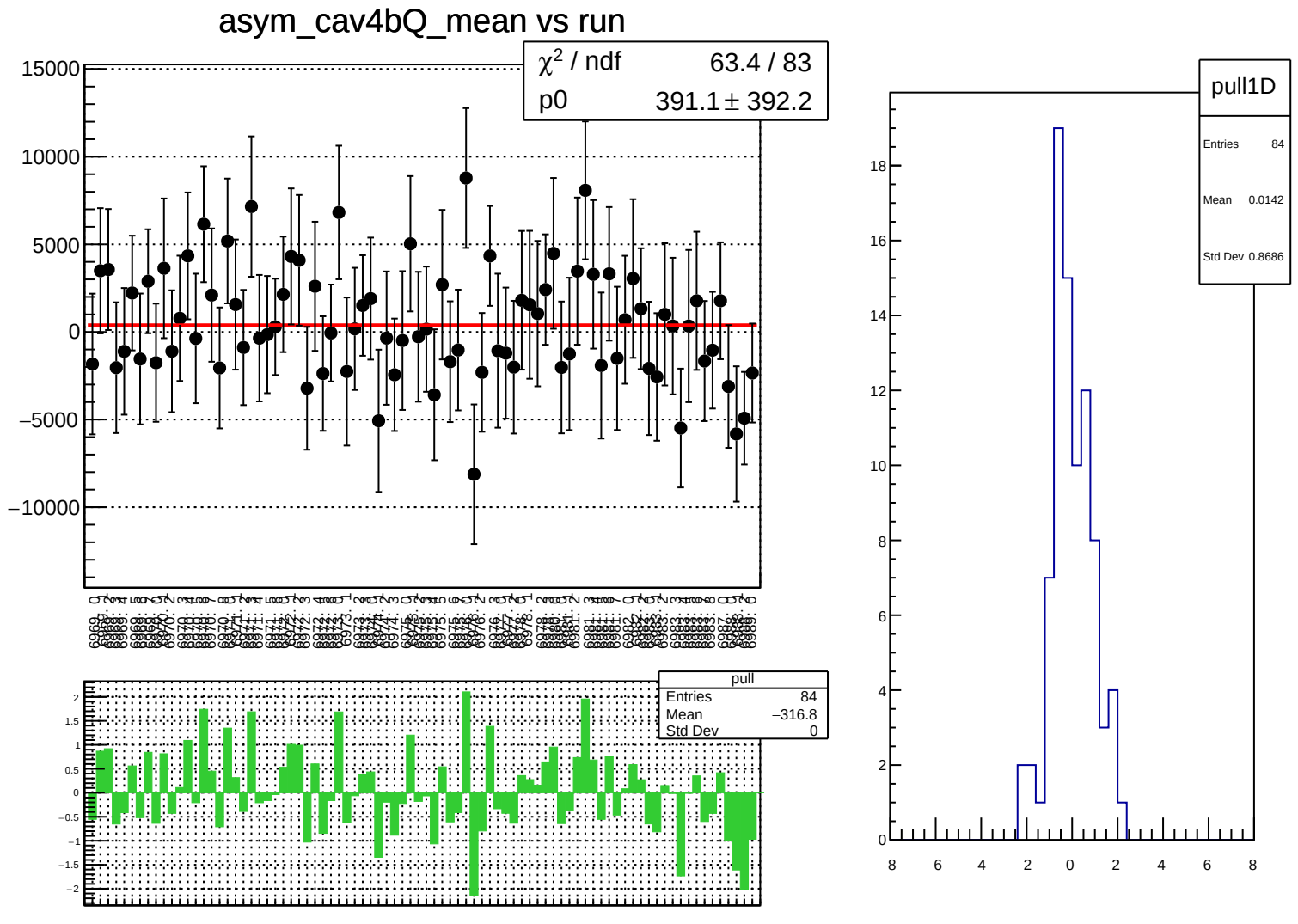

pull1D
Entries 84
Mean 0.001731
Std Dev 0.5706
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

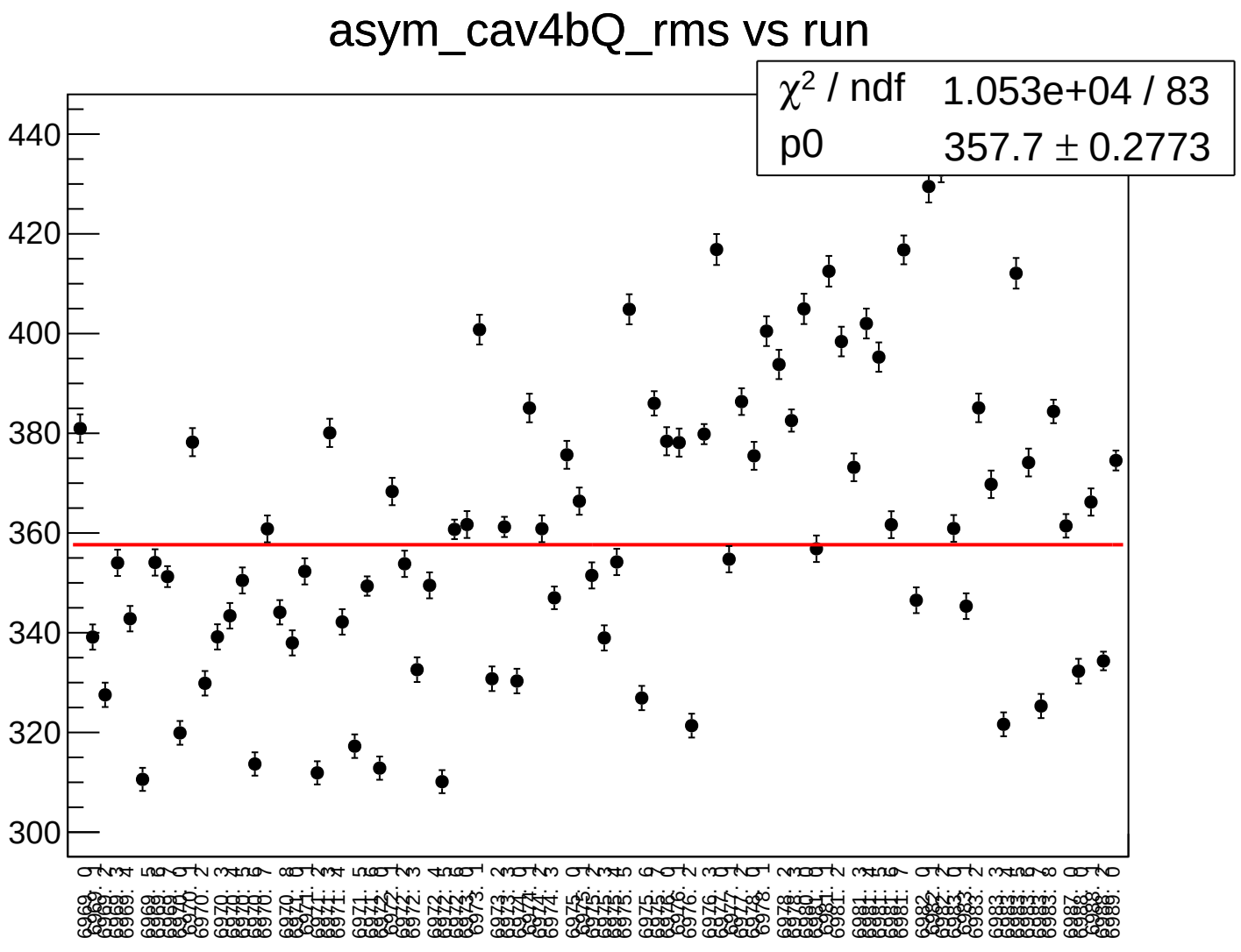

asym_bcm_dg_us_rms vs run
χ² / ndf 1.658e+04 / 83
p0 188.6 ± 0.1465
260
240
220
200
180
160

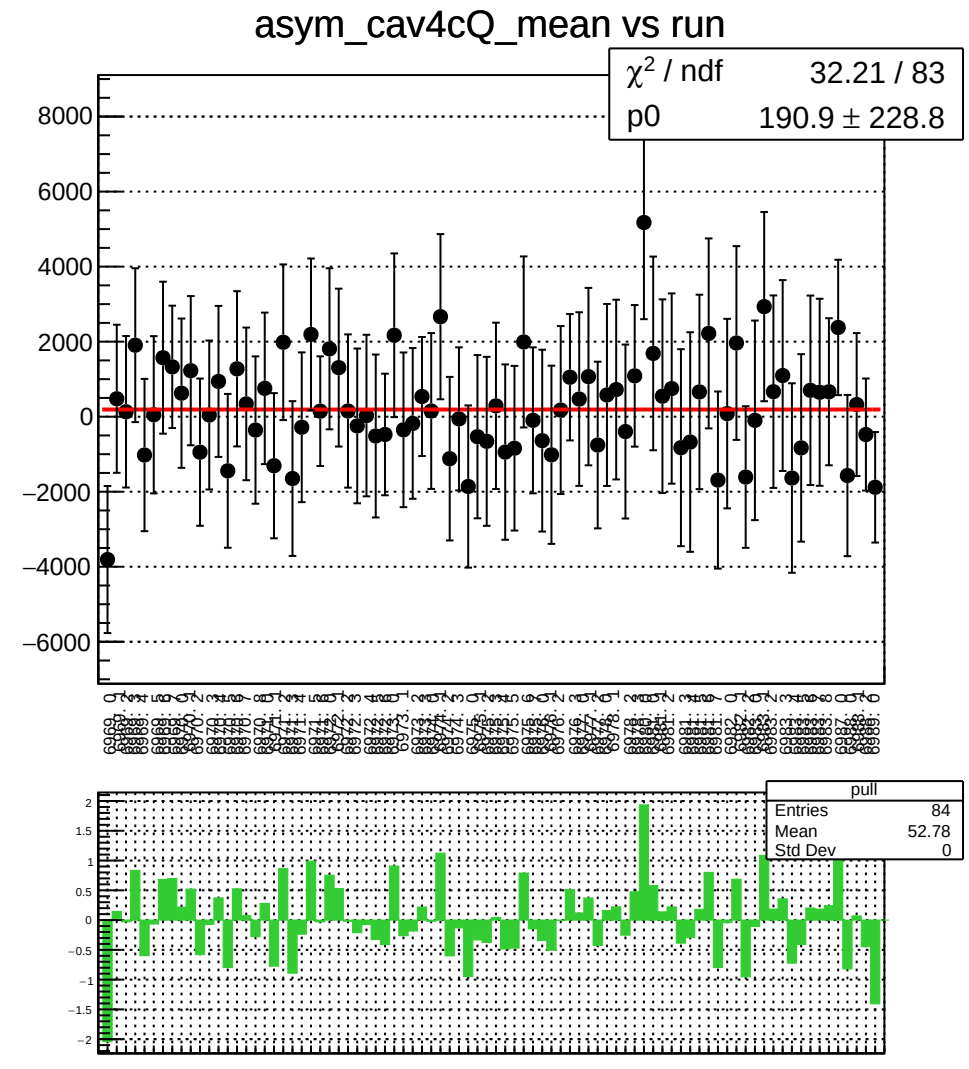

asym_bcm_dg_ds_mean vs run
χ² / ndf 24.54 / 83
p0 267.4 ± 206.6
pull
Entries 84
Mean 132.3
Std Dev 0

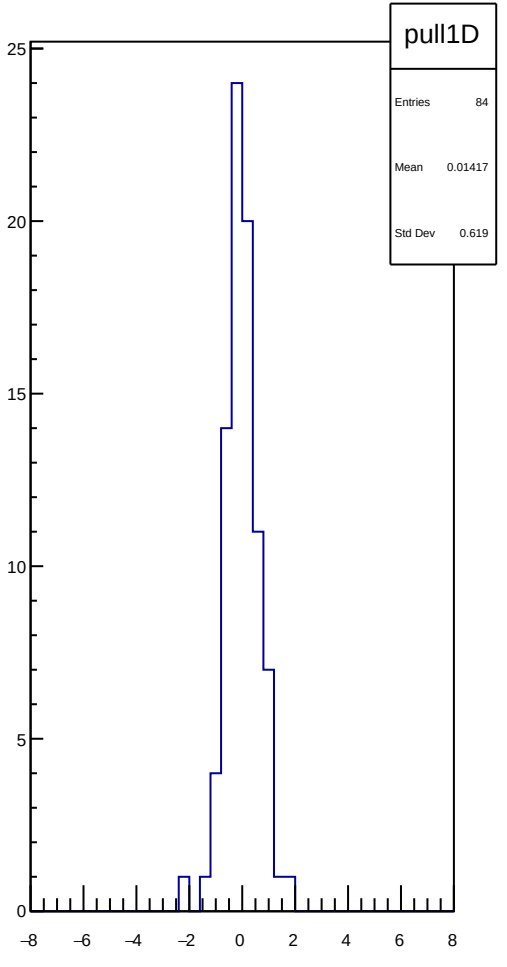

pull1D
Entries 84
Mean 0.01073
Std Dev 0.5404

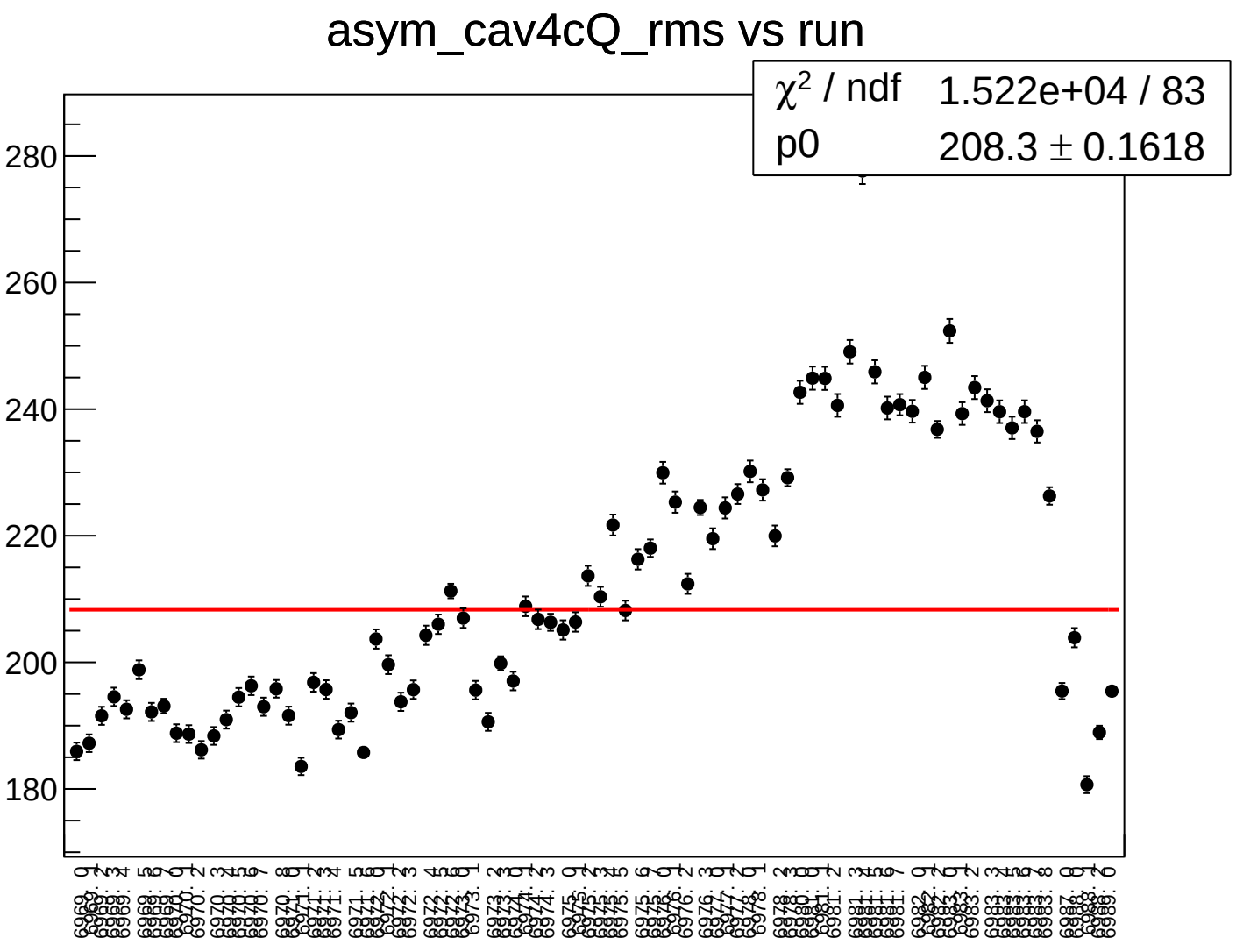

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.719e+04 / 83
p0 188 ± 0.1461
260
240
220
200
180
160

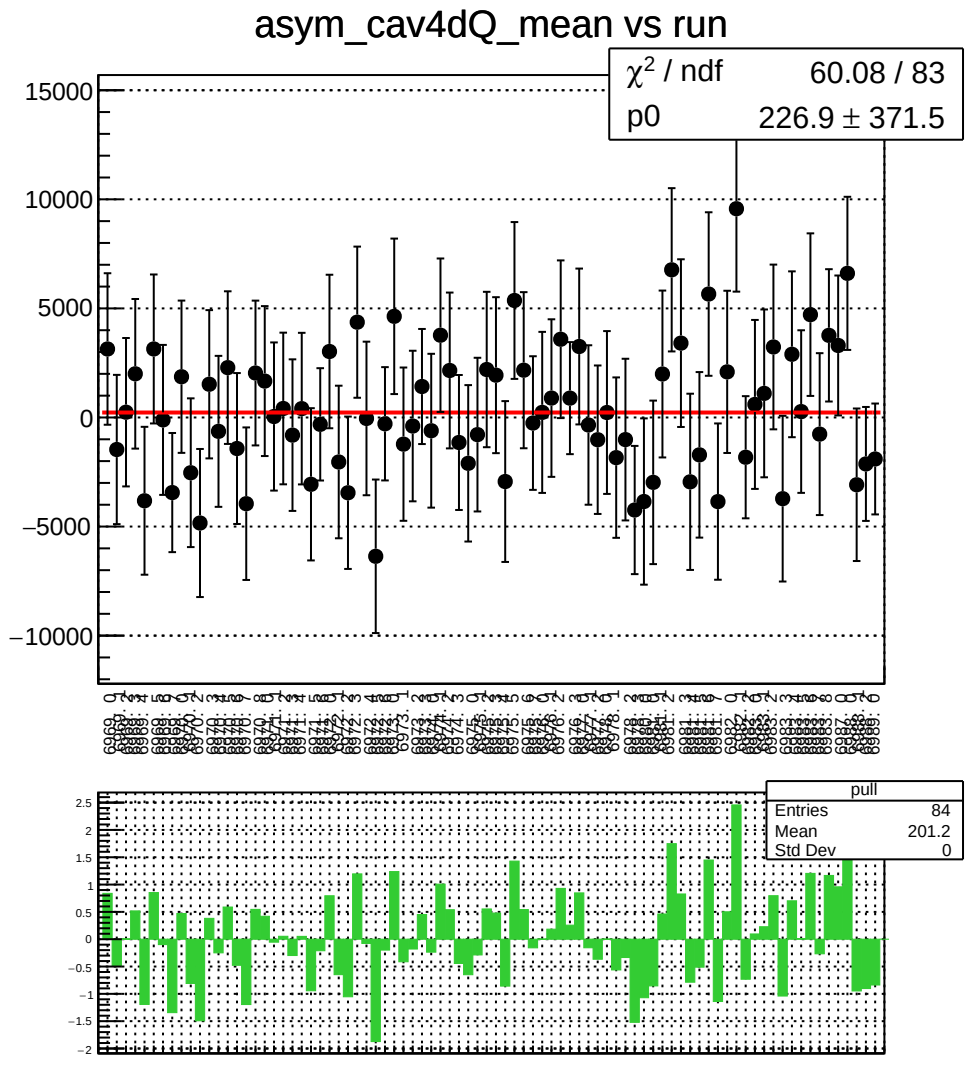

asym_cav4bQ_mean vs run
χ² / ndf 63.4 / 83
p0 391.1 ± 392.2
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −316.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.0142
Std Dev 0.8686
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

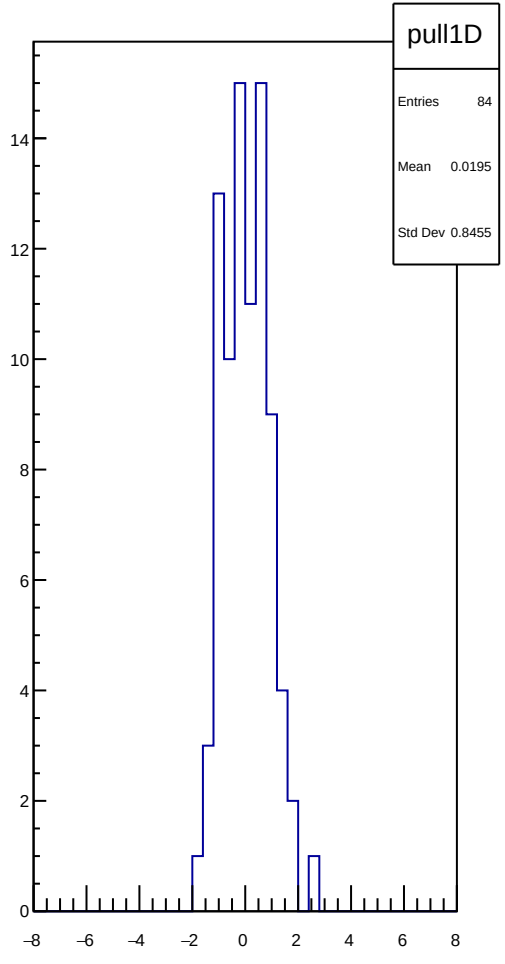

asym_cav4bQ_rms vs run
χ² / ndf 1.053e+04 / 83
p0 357.7 ± 0.2773
440
420
400
380
360
340
320
300

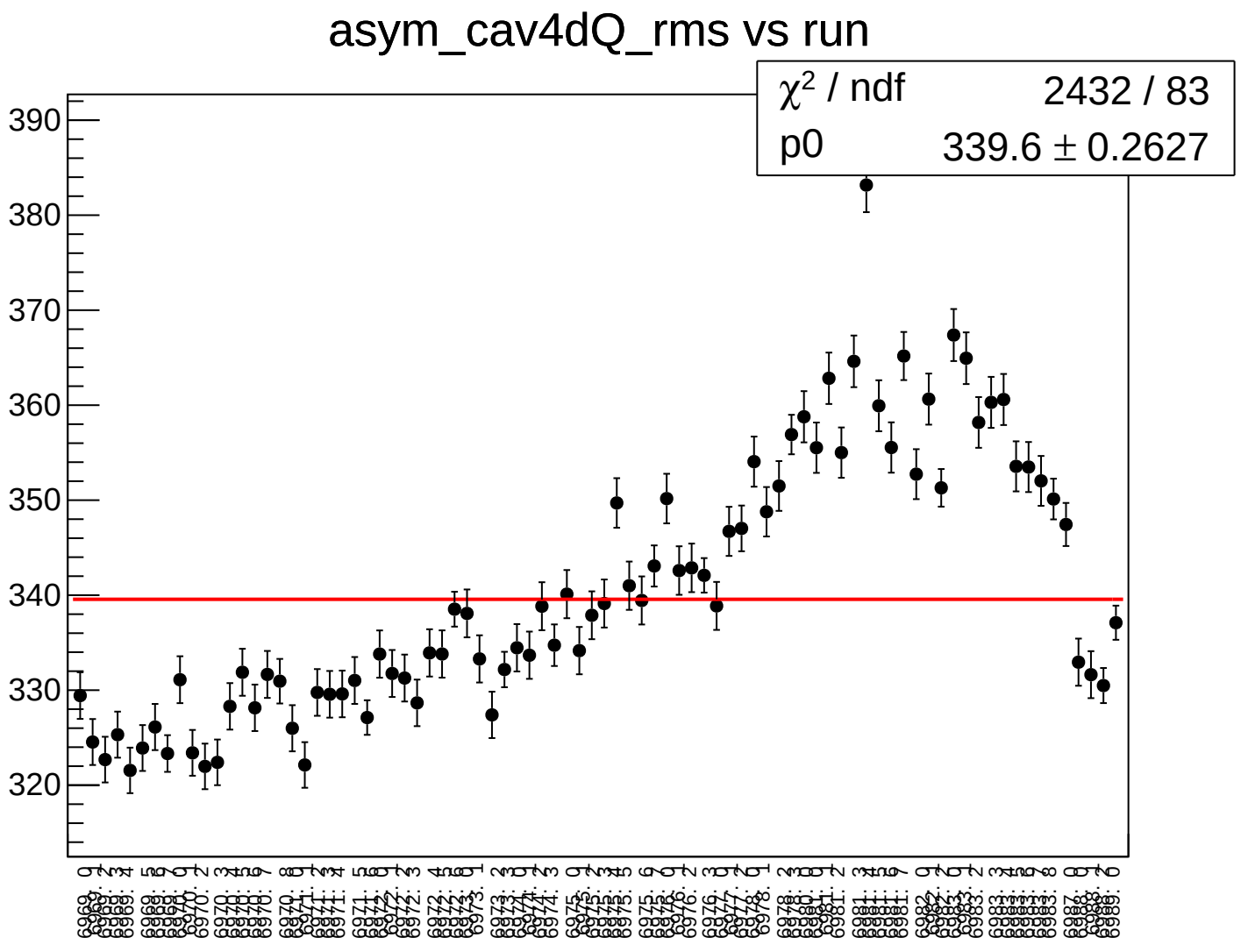

asym_cav4cQ_mean vs run
χ² / ndf 32.21 / 83
p0 190.9 ± 228.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 52.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

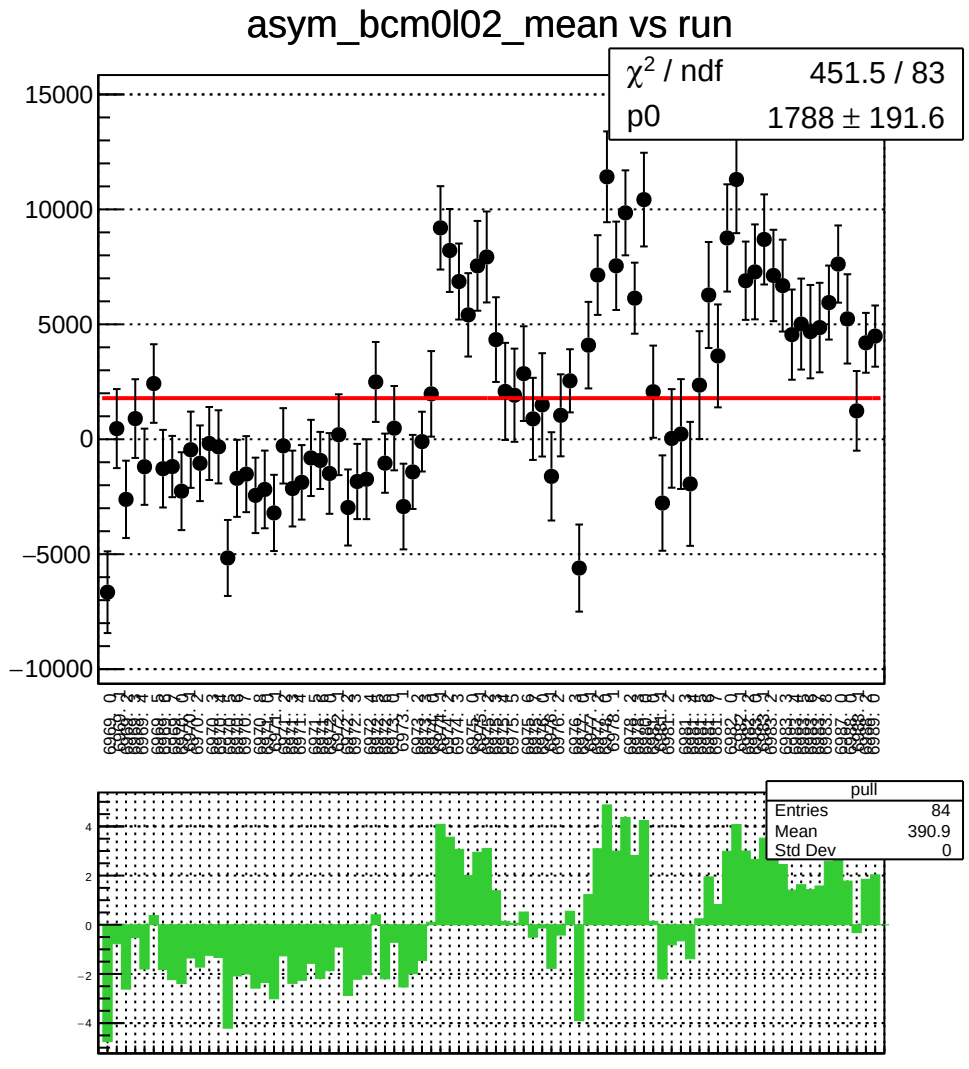

pull1D
Entries 84
Mean 0.01417
Std Dev 0.619
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

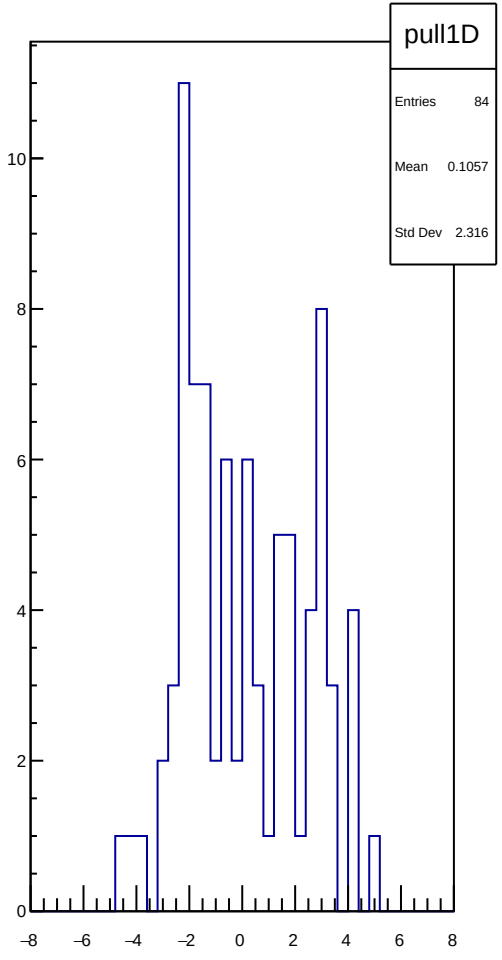

asym_cav4cQ_rms vs run
χ² / ndf 1.522e+04 / 83
p0 208.3 ± 0.1618
280
260
240
220
200
180

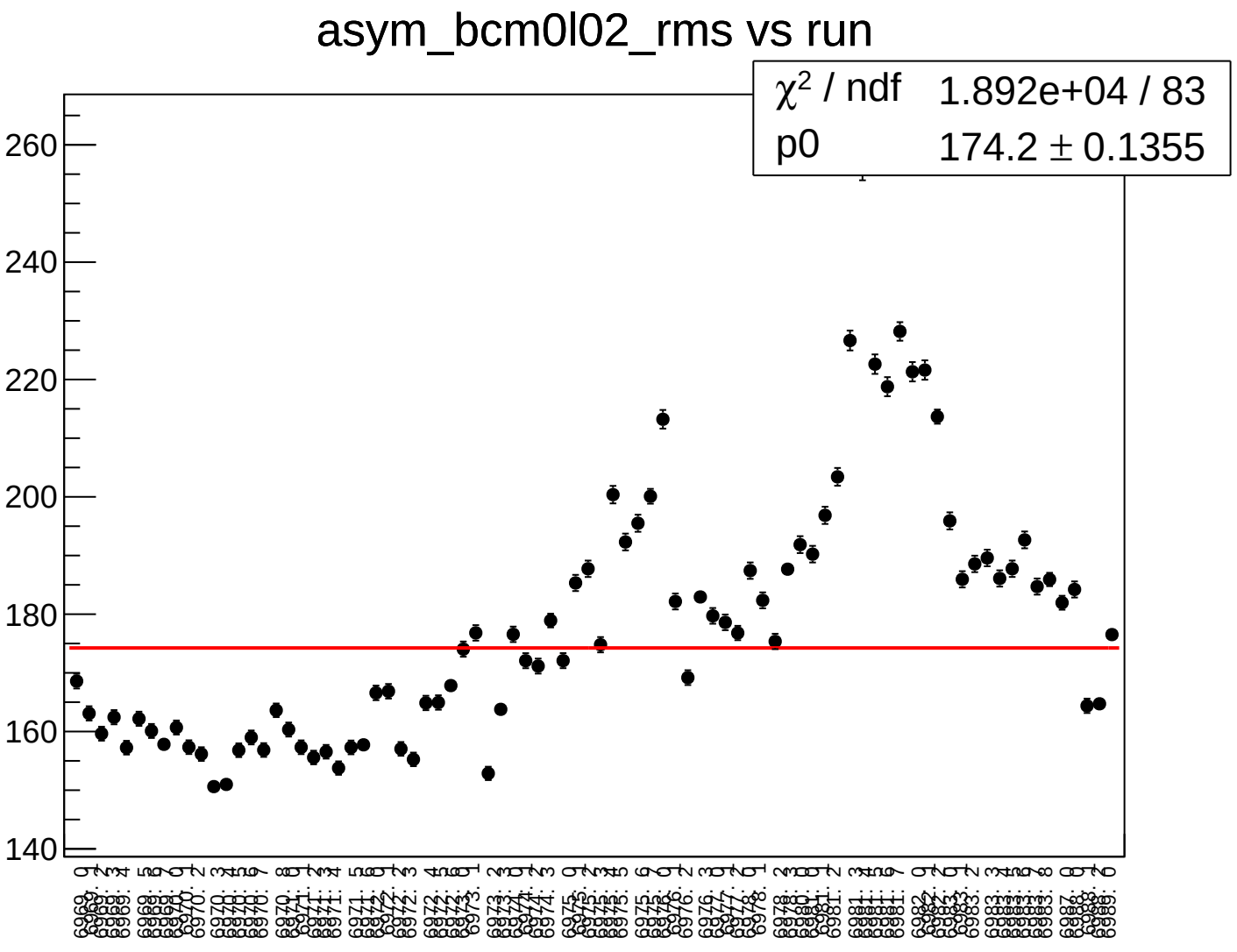

asym_cav4dQ_mean vs run
χ² / ndf 60.08 / 83
p0 226.9 ± 371.5
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 201.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

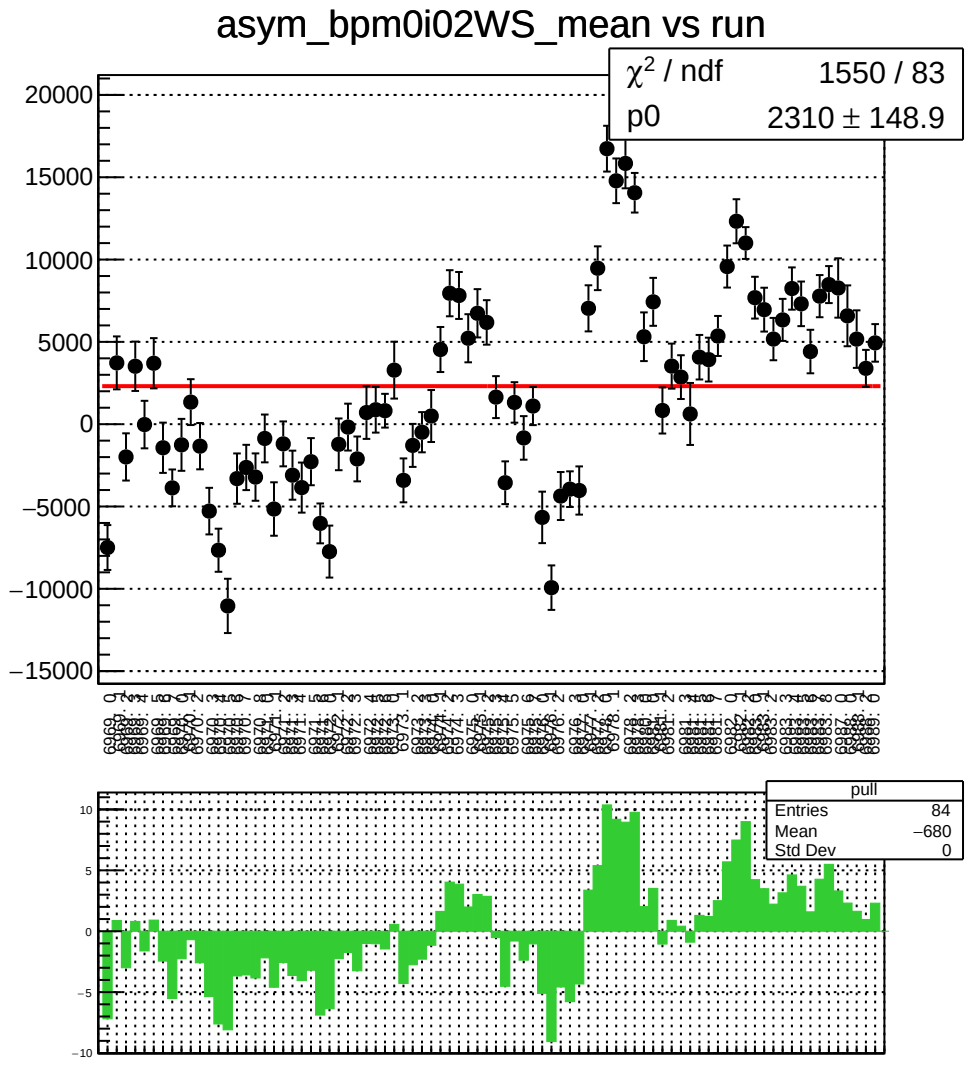

pull1D
Entries 84
Mean 0.0195
Std Dev 0.8455
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

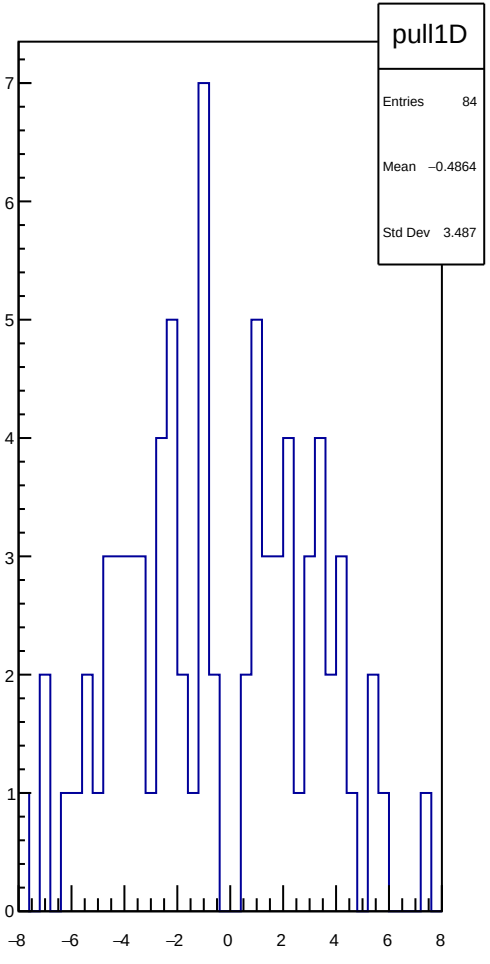

asym_cav4dQ_rms vs run
χ² / ndf 2432 / 83
p0 339.6 ± 0.2627
390
380
370
360
350
340
330
320

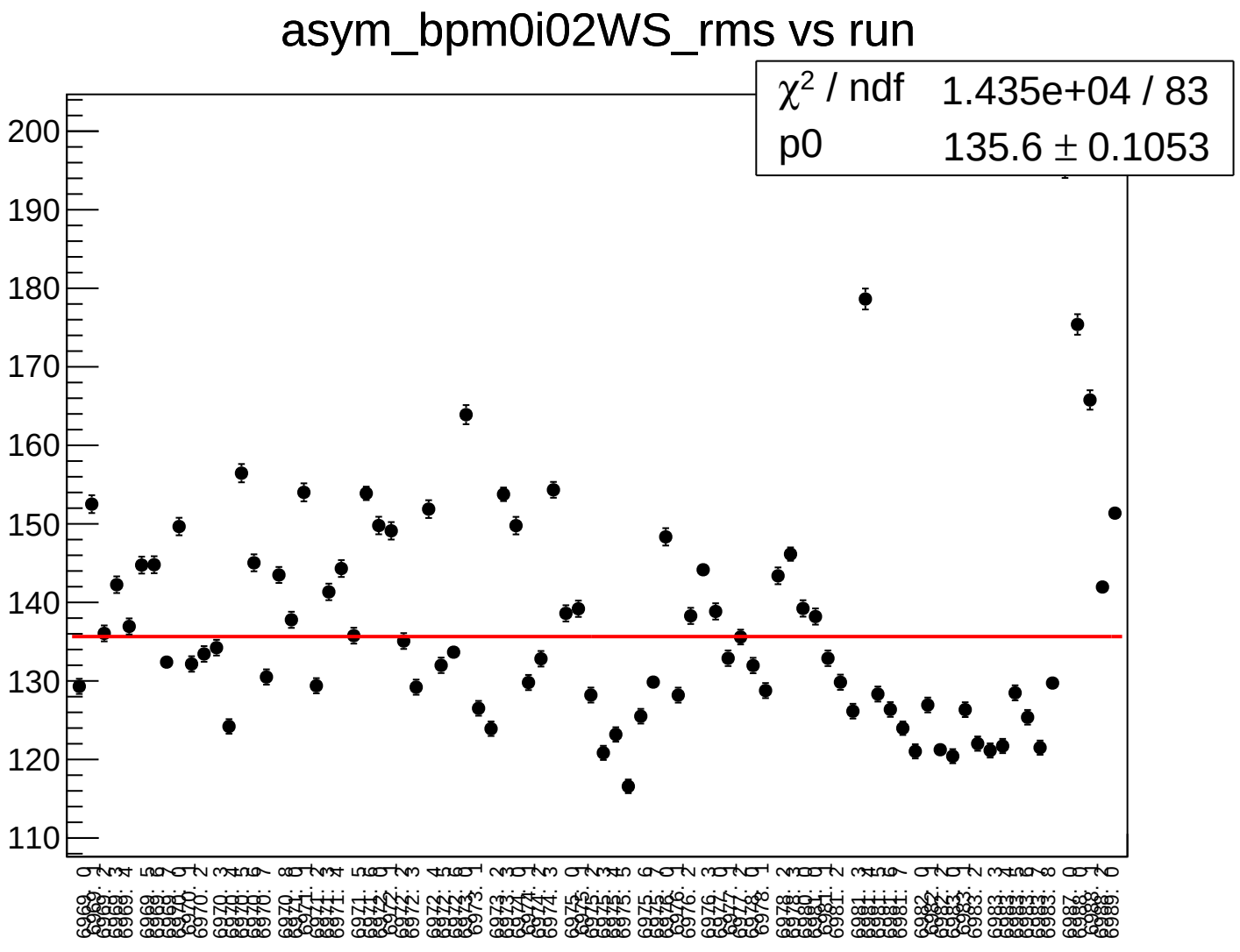

asym_bcm0l02_mean vs run
χ² / ndf 451.5 / 83
p0 1788 ± 191.6
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 390.9
Std Dev 0
4
2
0
−2
−4

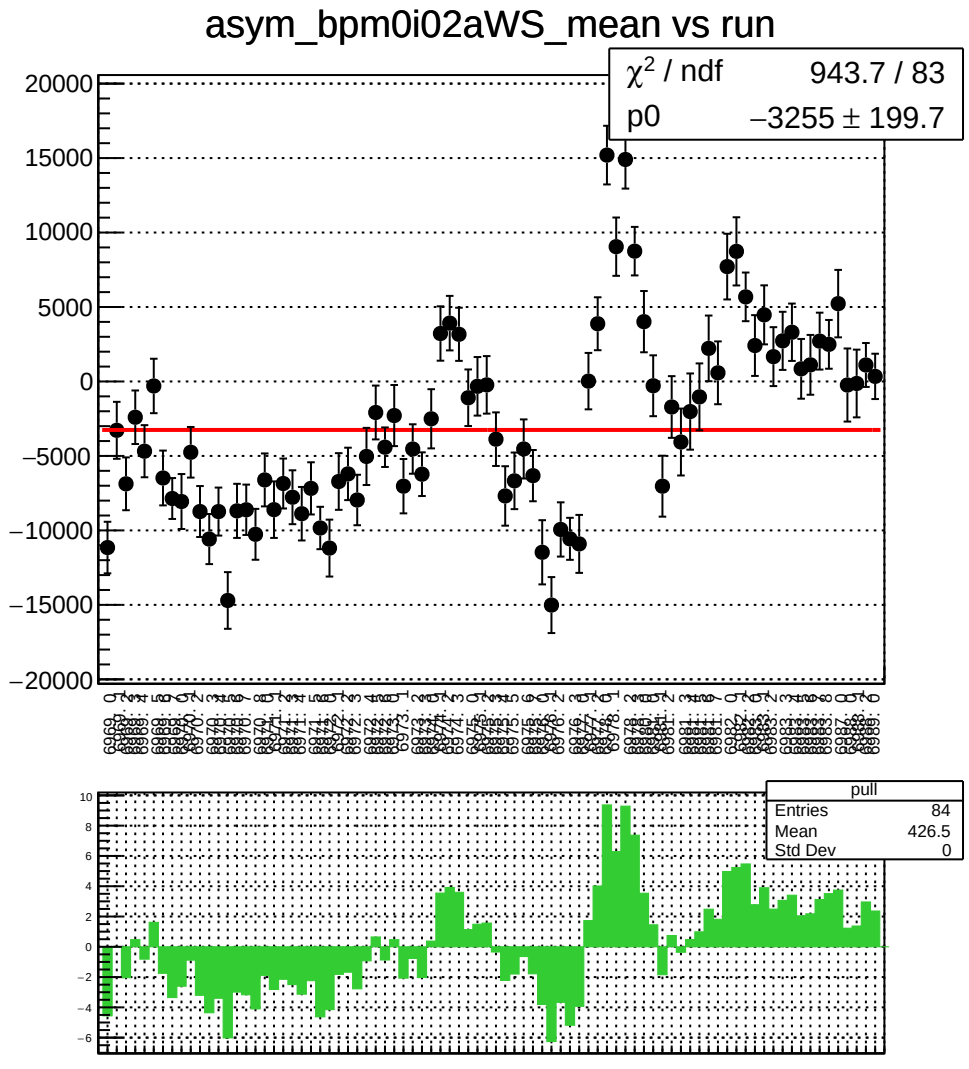

pull1D
Entries 84
Mean 0.1057
Std Dev 2.316
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

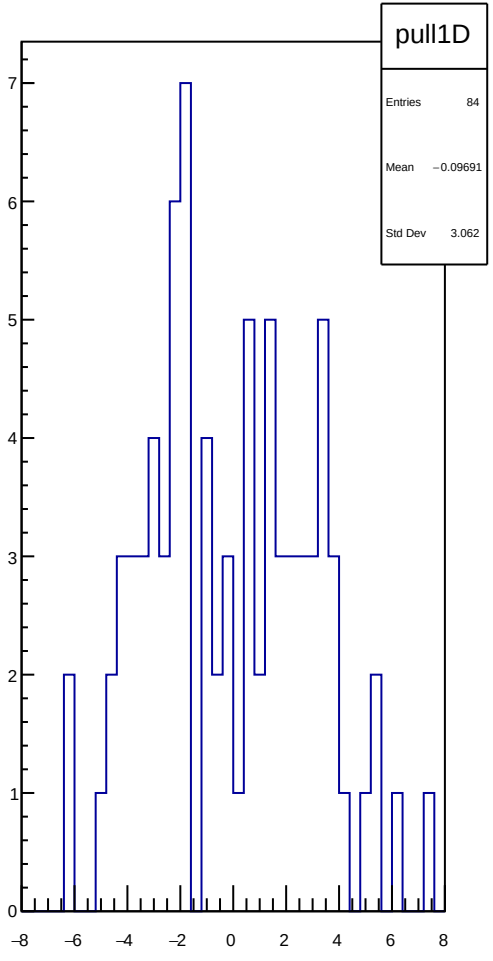

asym_bcm0l02_rms vs run
χ² / ndf 1.892e+04 / 83
p0 174.2 ± 0.1355
260
240
220
200
180
160
140

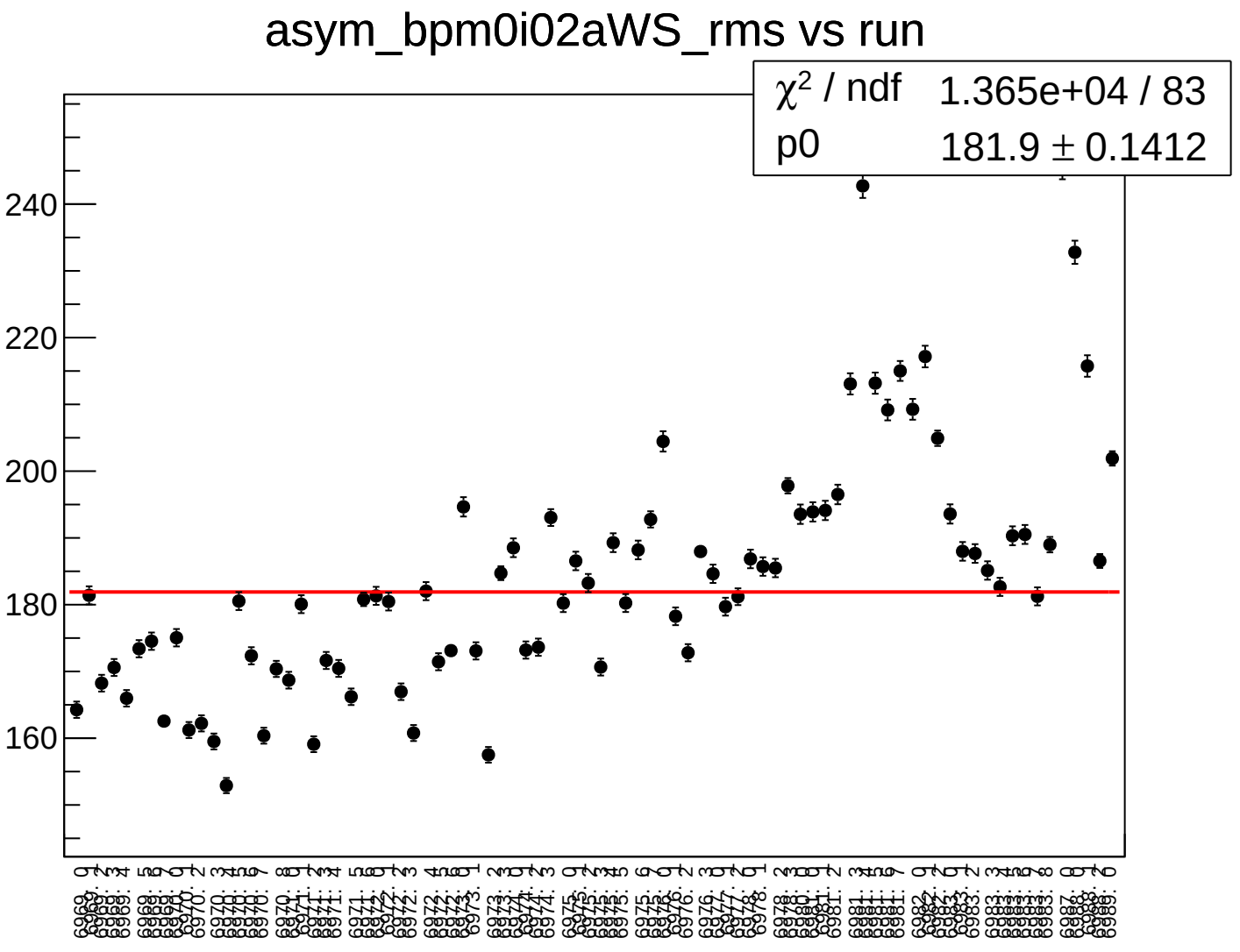

asym_bpm0i02WS_mean vs run
χ² / ndf 1550 / 83
p0 2310 ± 148.9
pull
Entries 84
Mean −680
Std Dev 0

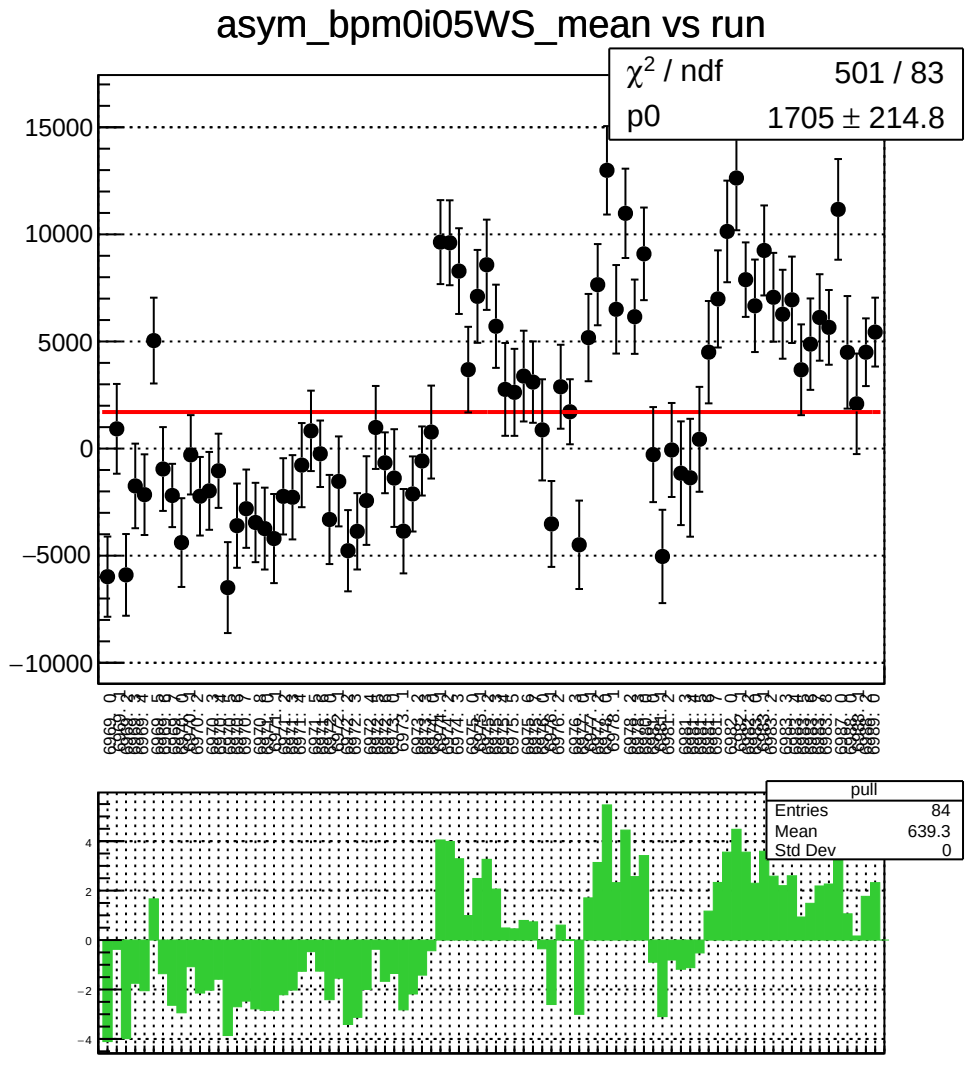

pull1D
Entries 84
Mean −0.4864
Std Dev 3.487

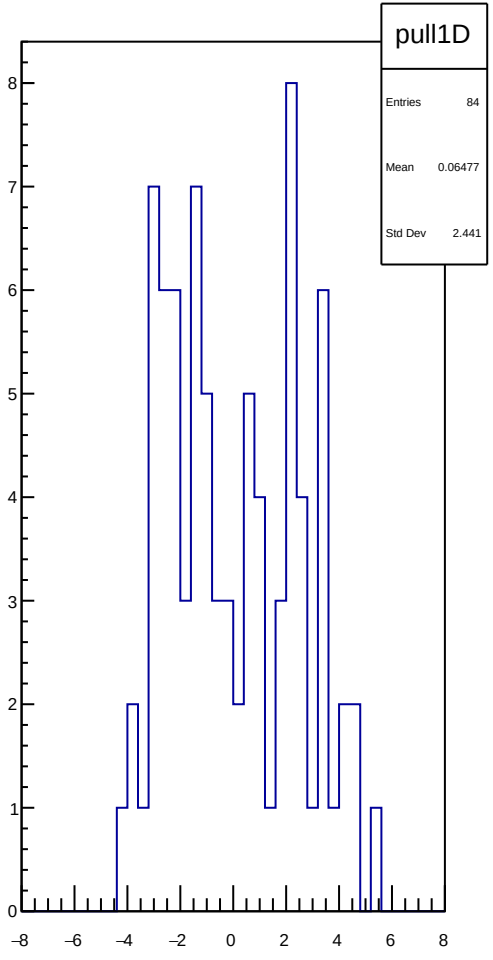

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.435e+04 / 83
p0 135.6 ± 0.1053
200
190
180
170
160
150
140
130
120
110

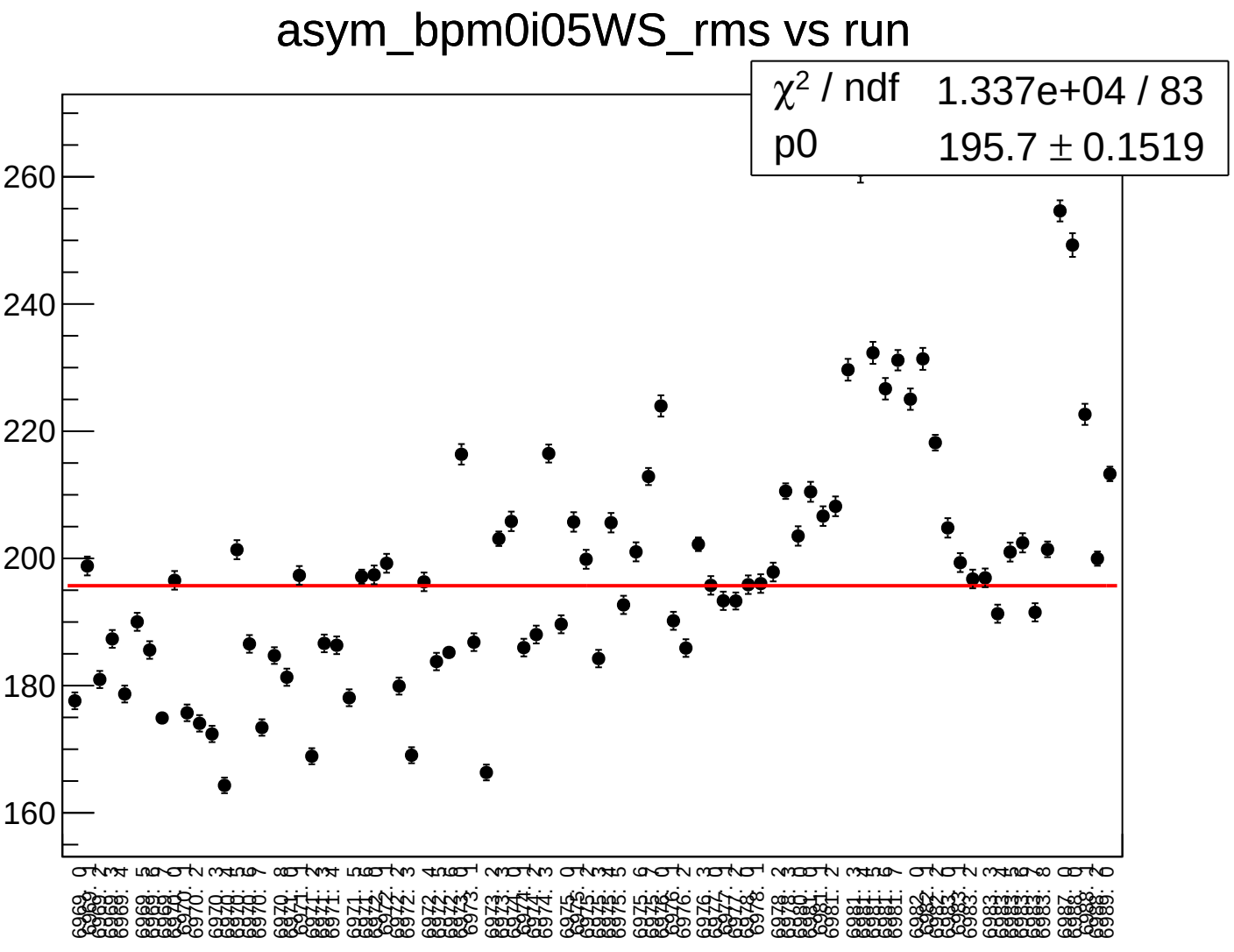

asym_bpm0i02aWS_mean vs run
χ² / ndf 943.7 / 83
p0 −3255 ± 199.7
pull
Entries 84
Mean 426.5
Std Dev 0

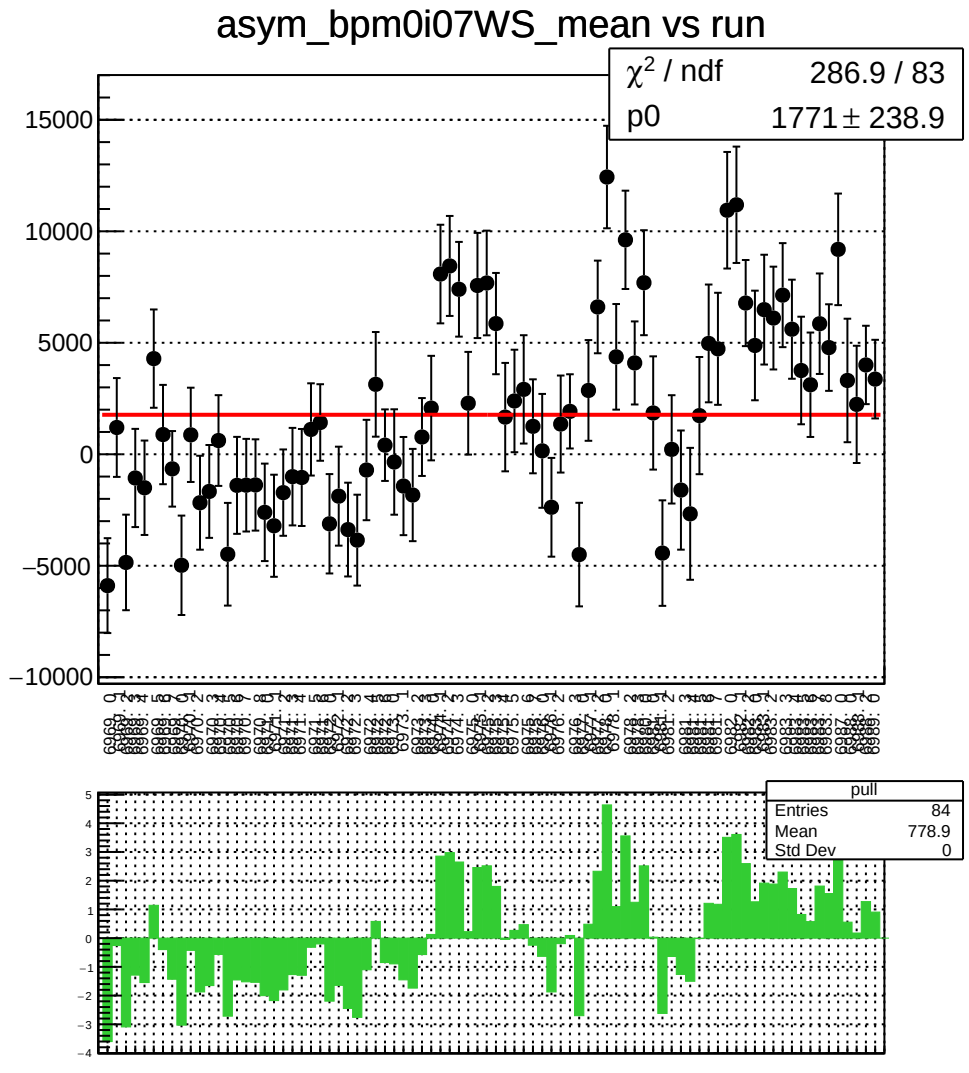

pull1D
Entries 84
Mean −0.09691
Std Dev 3.062

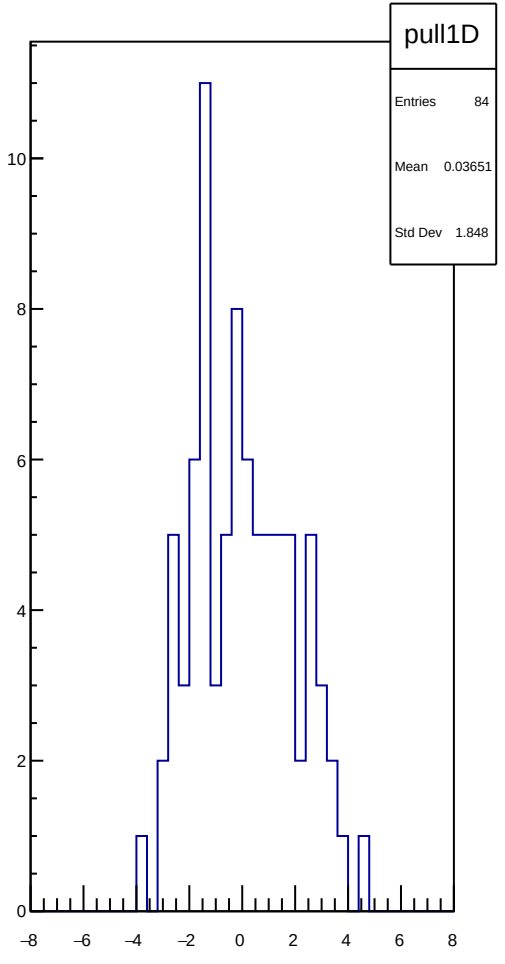

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.365e+04 / 83
p0 181.9 ± 0.1412
240
220
200
180
160

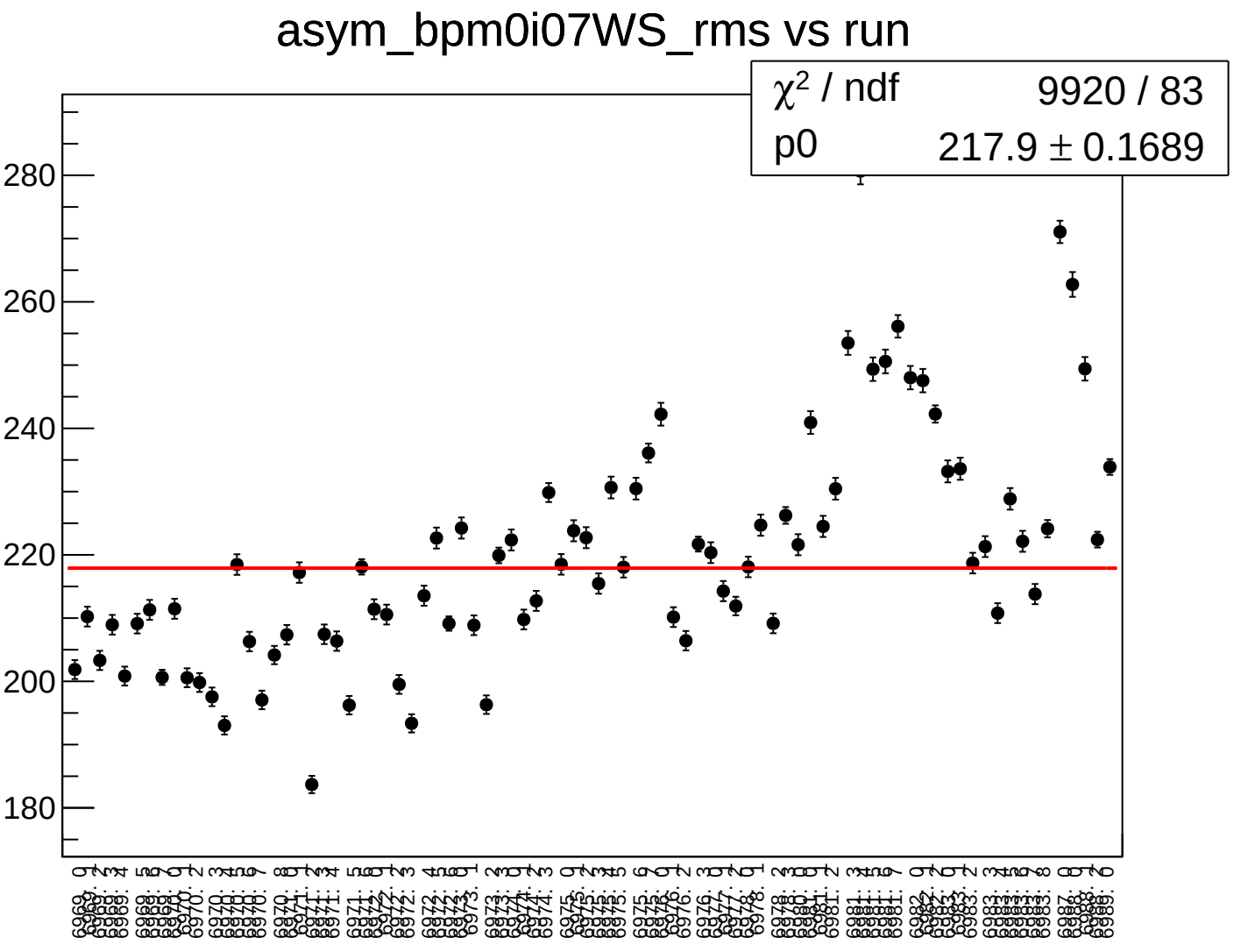

asym_bpm0i05WS_mean vs run
χ² / ndf 501 / 83
p0 1705 ± 214.8
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 639.3
Std Dev 0
4
2
0
−2
−4

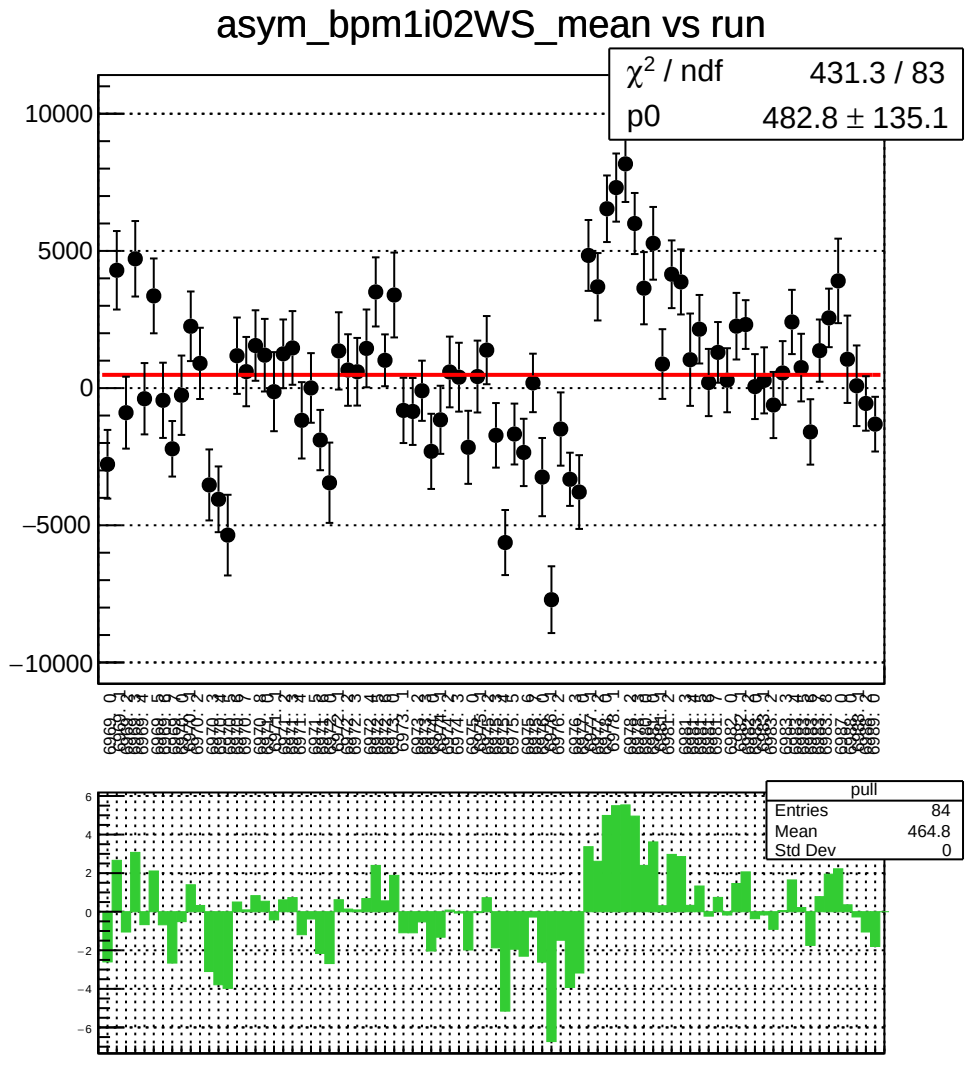

pull1D
Entries 84
Mean 0.06477
Std Dev 2.441
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

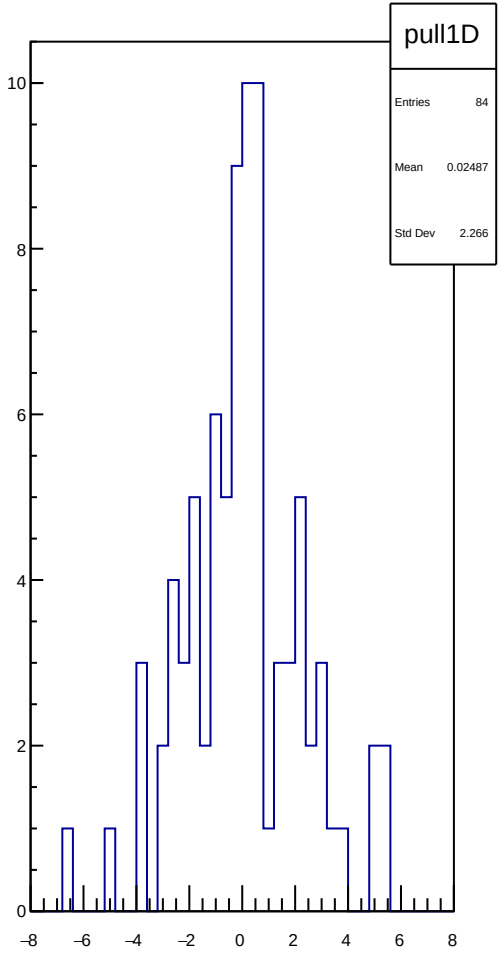

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1.337e+04 / 83
p0 195.7 ± 0.1519
260
240
220
200
180
160

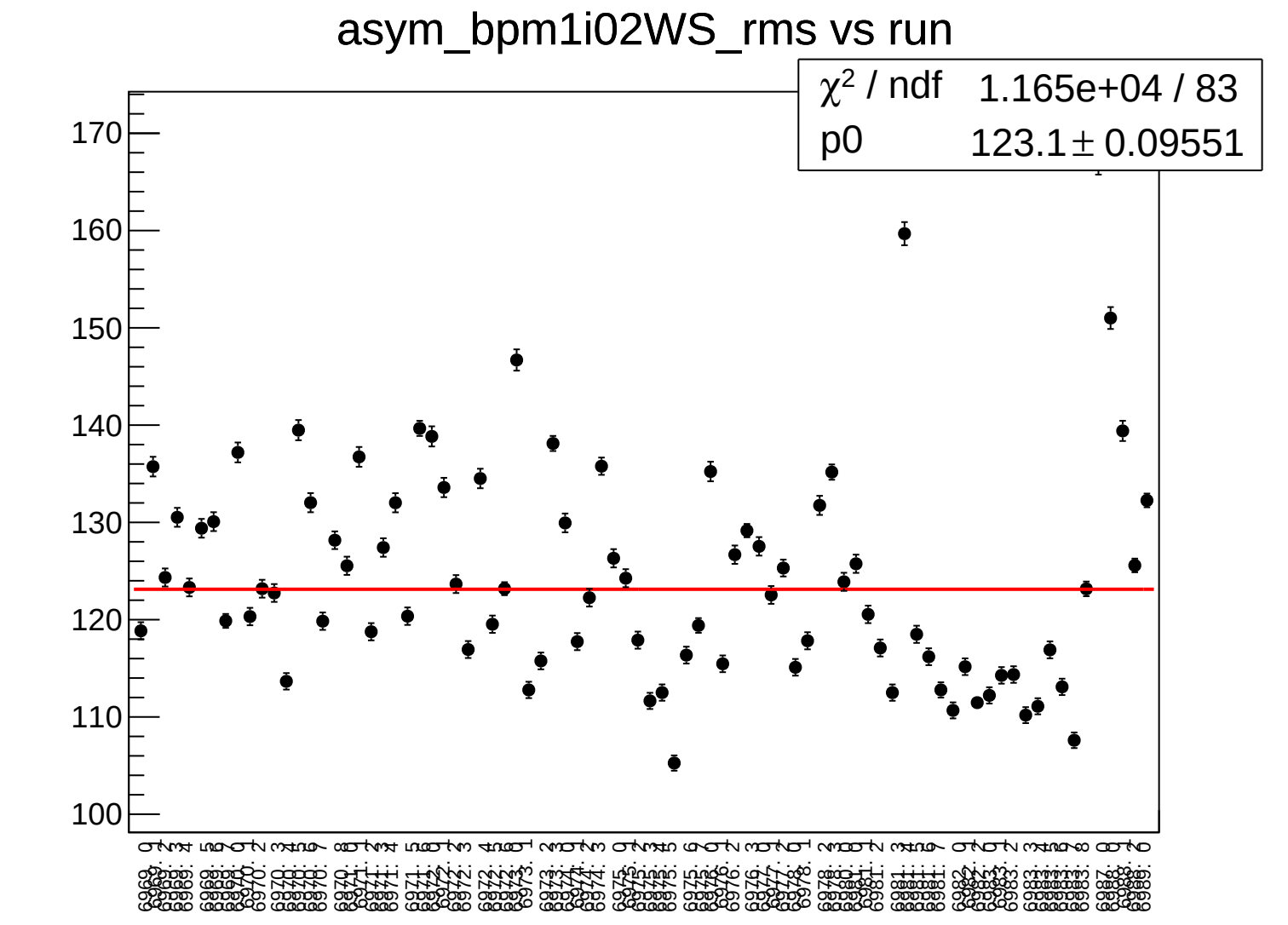

asym_bpm0i07WS_mean vs run
χ² / ndf 286.9 / 83
p0 1771 ± 238.9
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 778.9
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

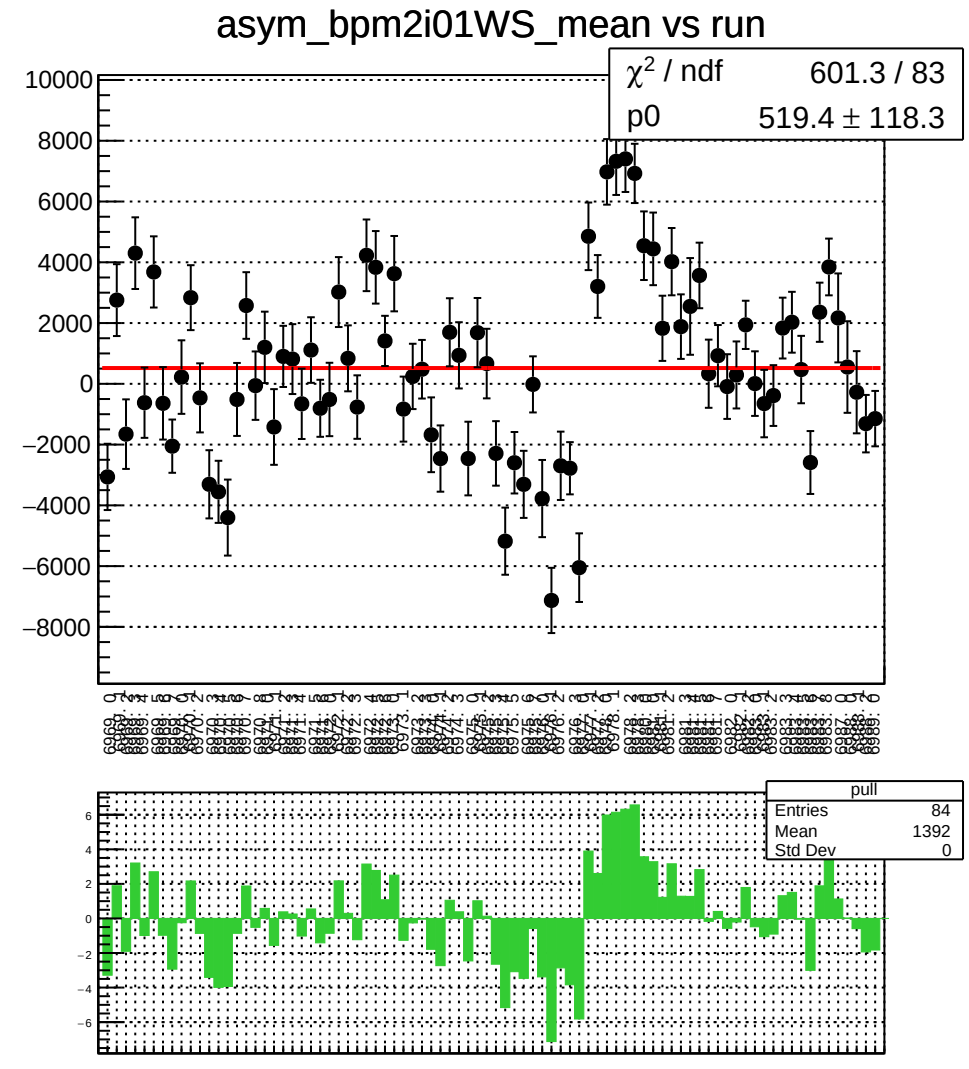

pull1D
Entries 84
Mean 0.03651
Std Dev 1.848
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

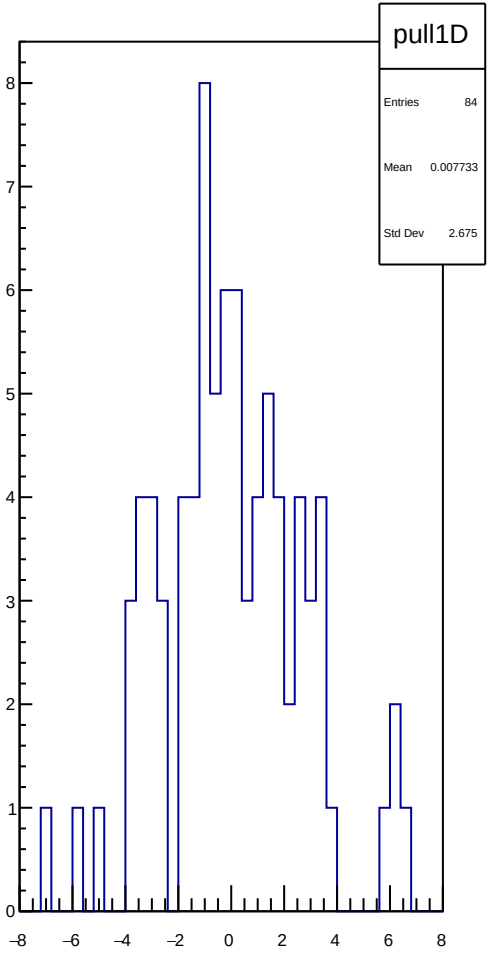

asym_bpm0i07WS_rms vs run
χ^2 / ndf 9920 / 83
p0 217.9 ± 0.1689
280
260
240
220
200
180

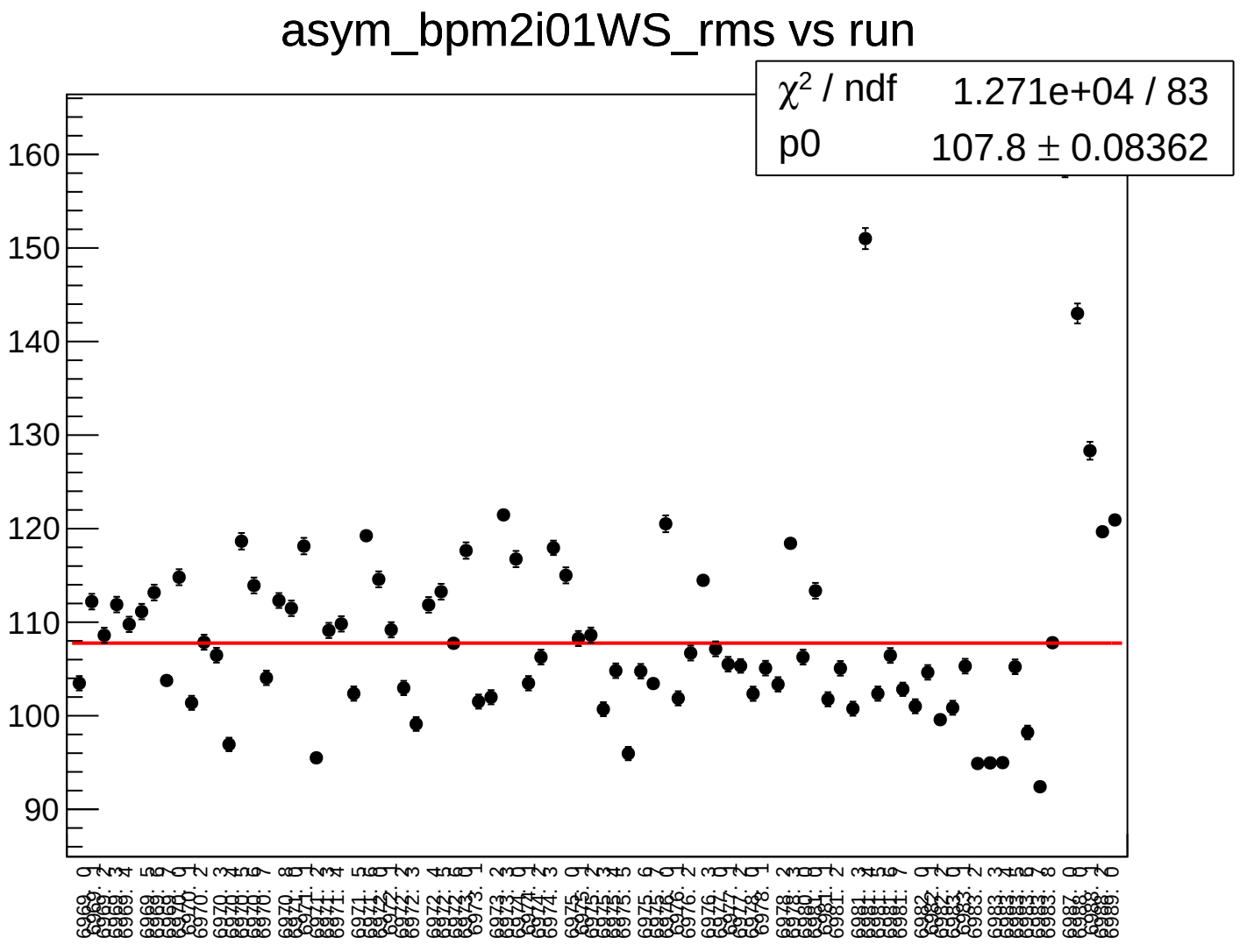

asym_bpm1i02WS_mean vs run
χ² / ndf 431.3 / 83
p0 482.8 ± 135.1
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 464.8
Std Dev 0
6
4
2
0
−2
−4
−6

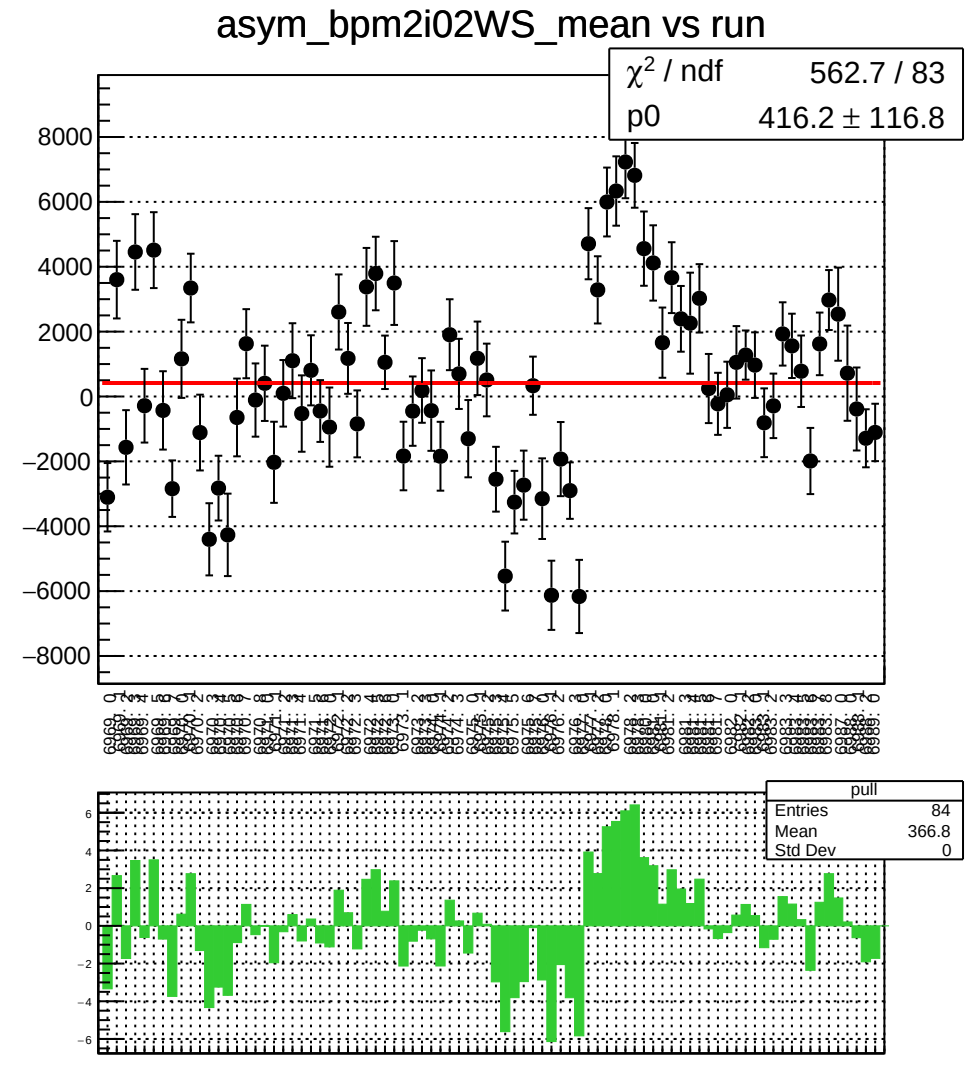

pull1D
Entries 84
Mean 0.02487
Std Dev 2.266
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

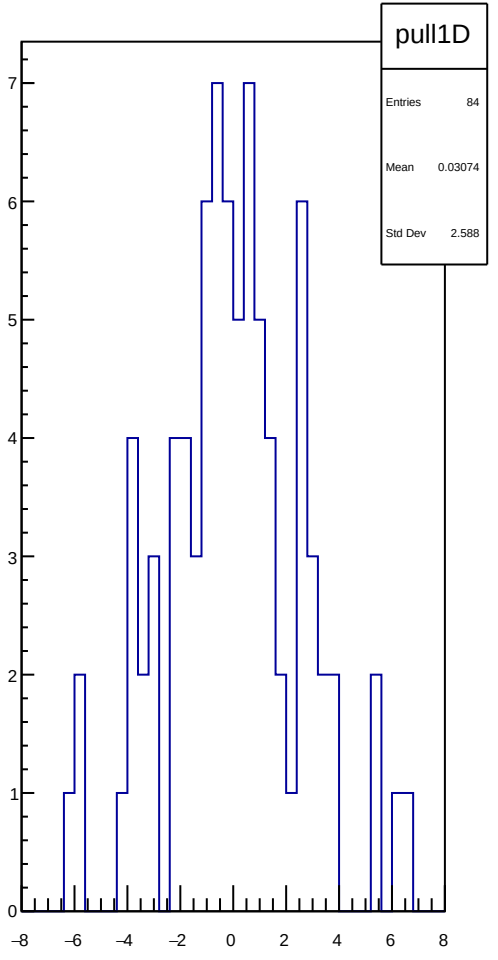

asym_bpm1i02WS_rms vs run
χ^2 / ndf 1.165e+04 / 83
p0 123.1 ± 0.09551
170
160
150
140
130
120
110
100

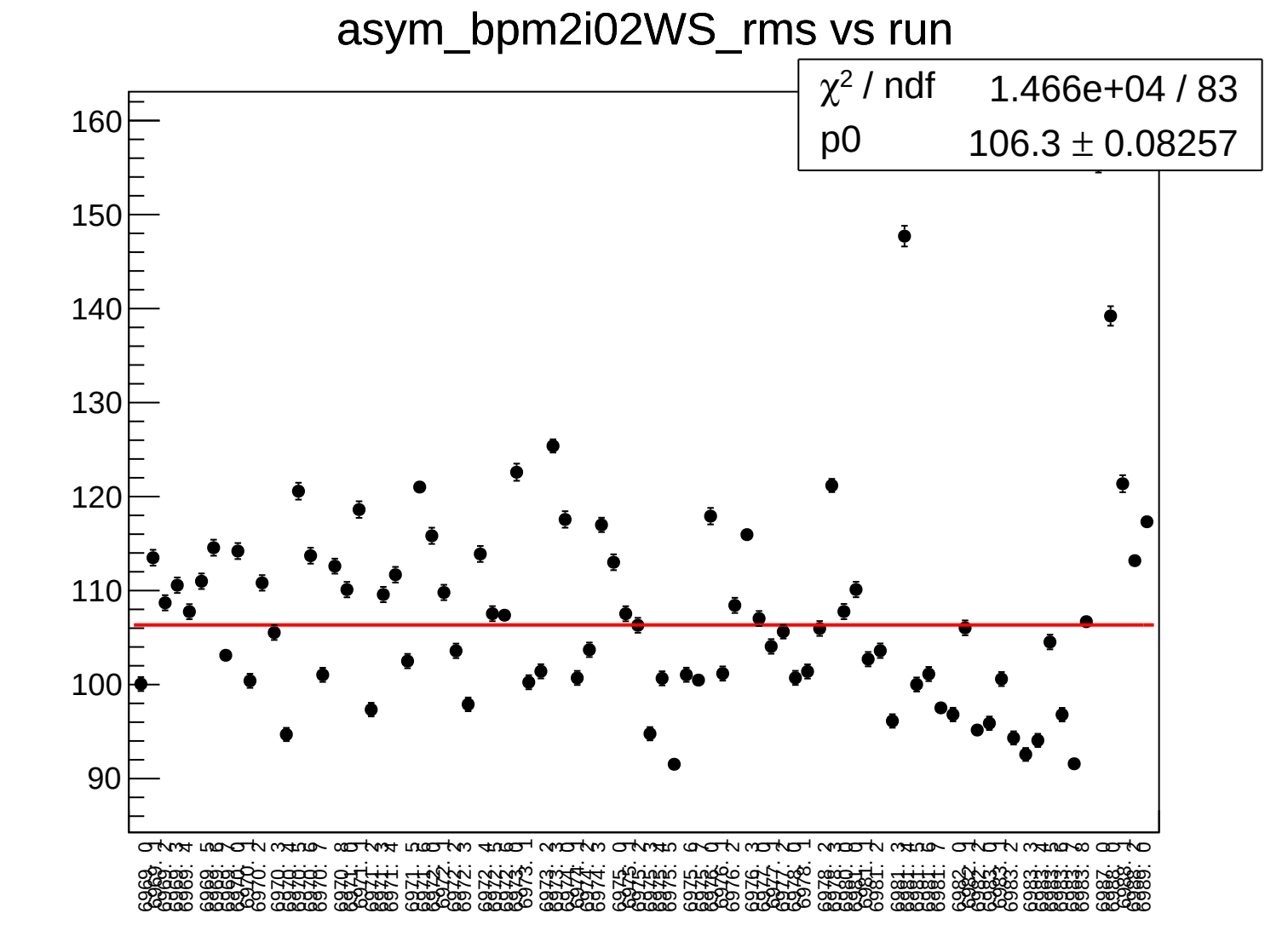

asym_bpm2i01WS_mean vs run
χ² / ndf 601.3 / 83
p0 519.4 ± 118.3
pull
Entries 84
Mean 1392
Std Dev 0

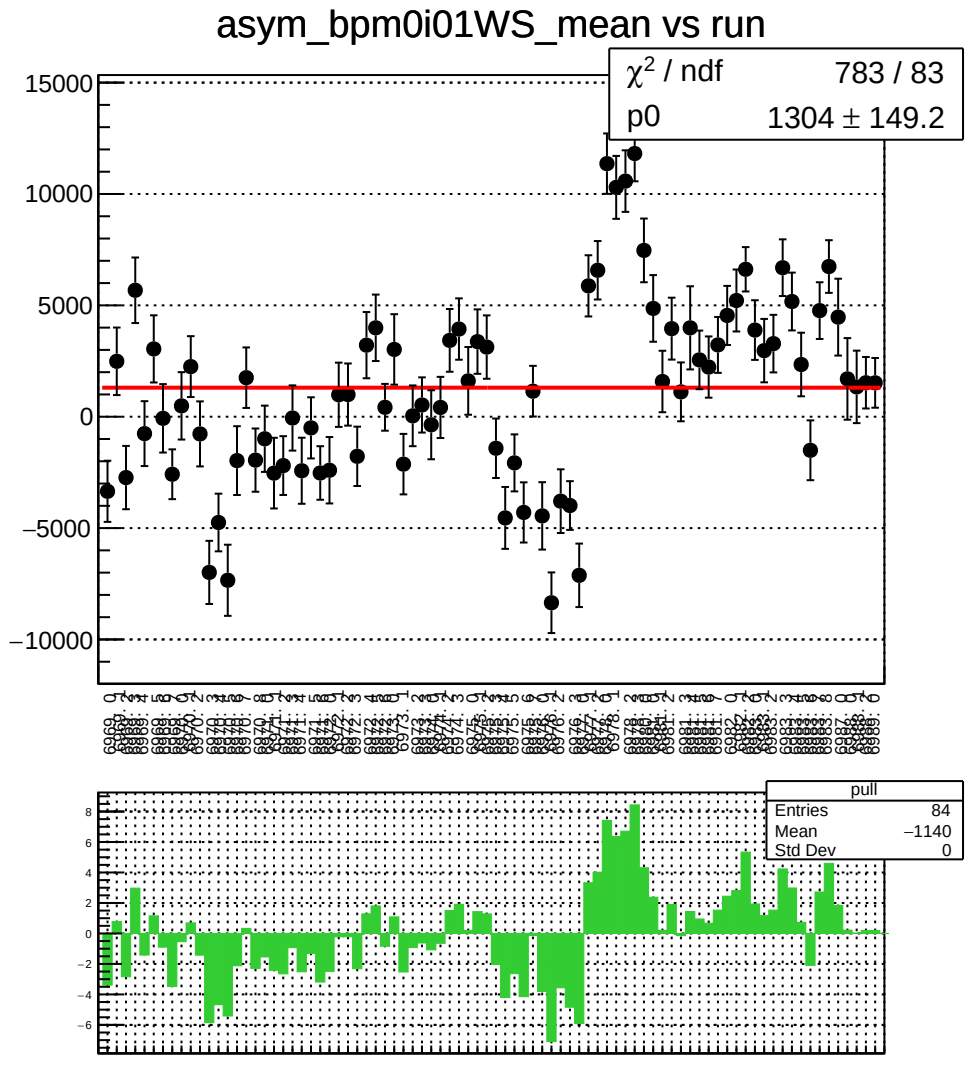

pull1D
Entries 84
Mean 0.007733
Std Dev 2.675

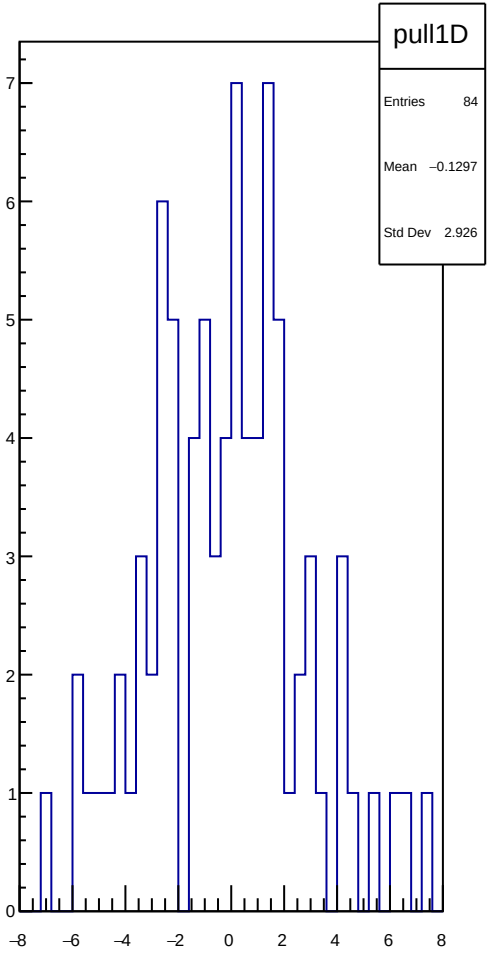

asym_bpm2i01WS_rms vs run
χ² / ndf 1.271e+04 / 83
p0 107.8 ± 0.08362
160
150
140
130
120
110
100
90

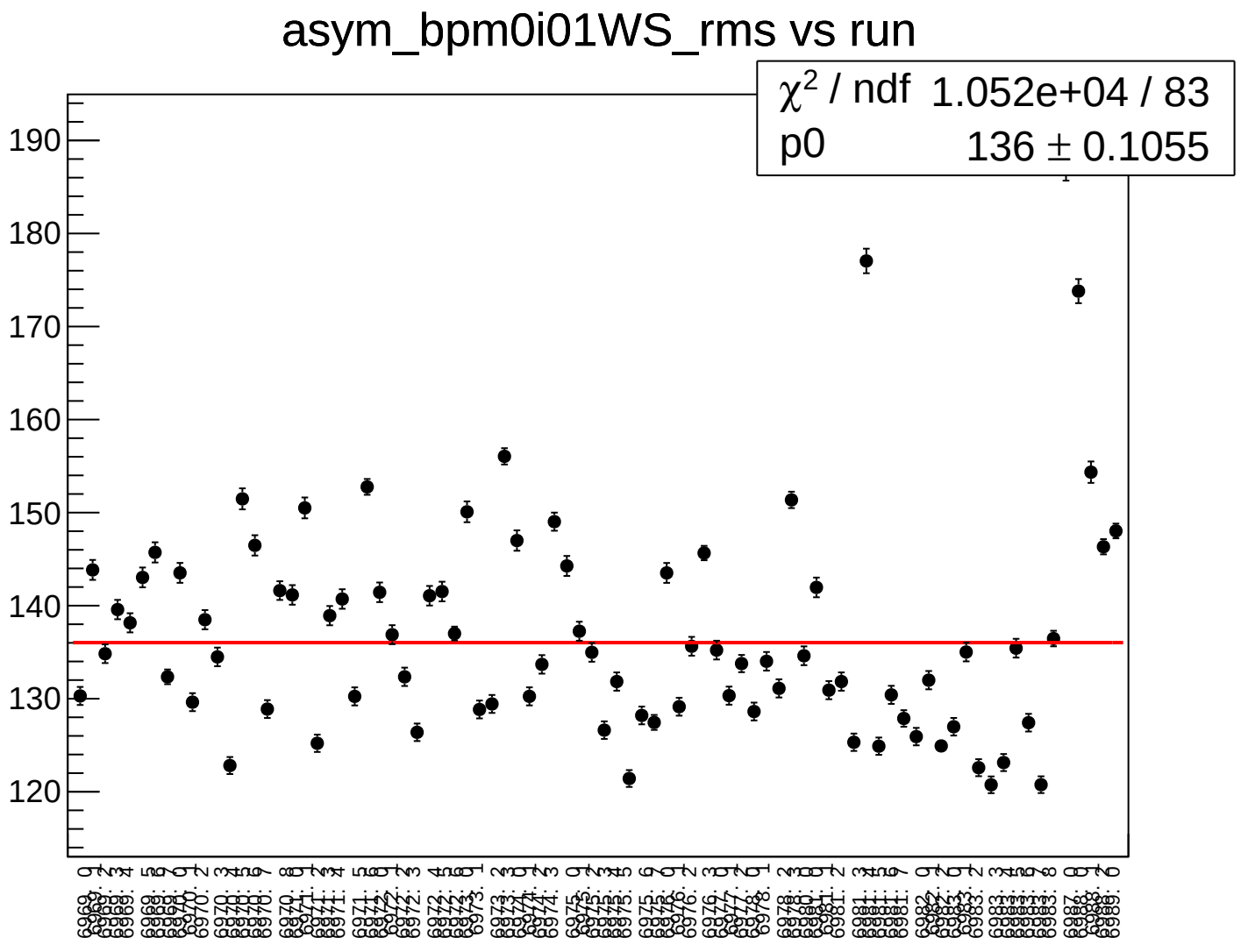

asym_bpm2i02WS_mean vs run
χ² / ndf 562.7 / 83
p0 416.2 ± 116.8
pull
Entries 84
Mean 366.8
Std Dev 0

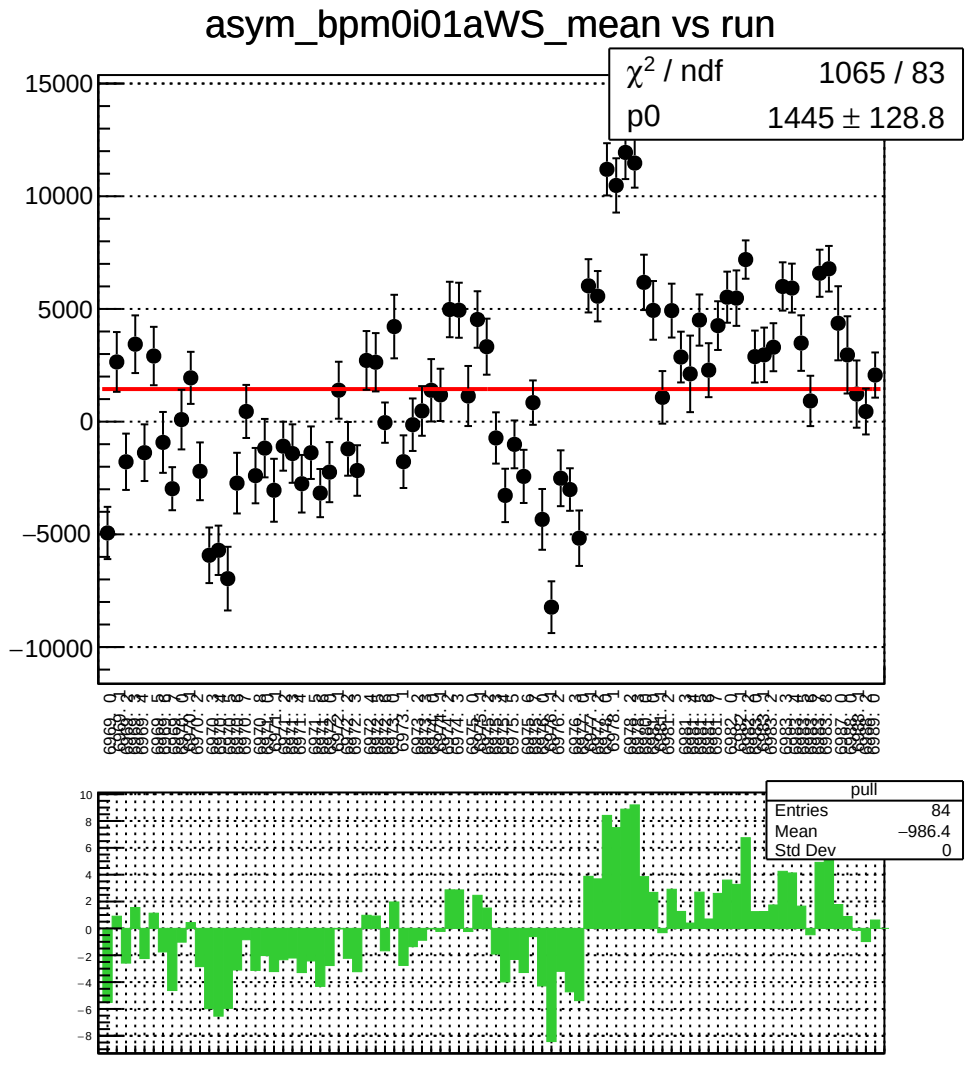

pull1D
Entries 84
Mean 0.03074
Std Dev 2.588

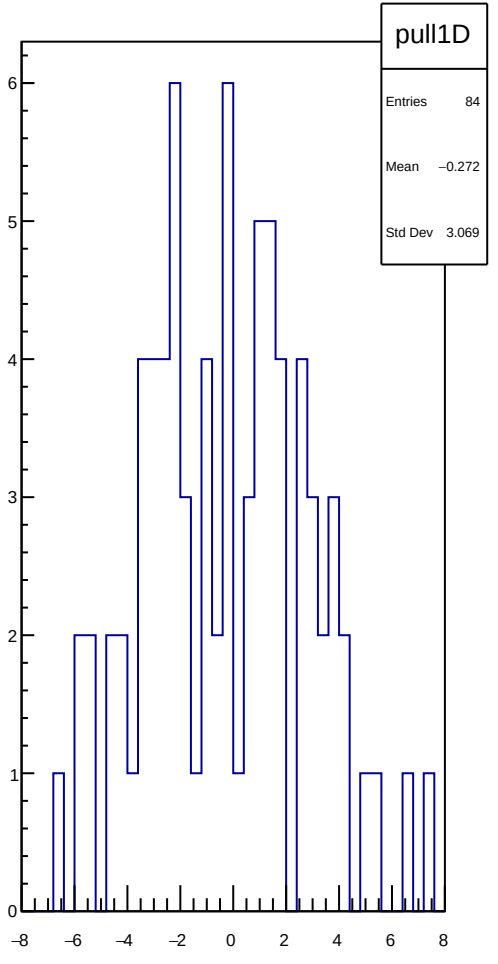

asym_bpm2i02WS_rms vs run
χ² / ndf 1.466e+04 / 83
p0 106.3 ± 0.08257
160
150
140
130
120
110
100
90

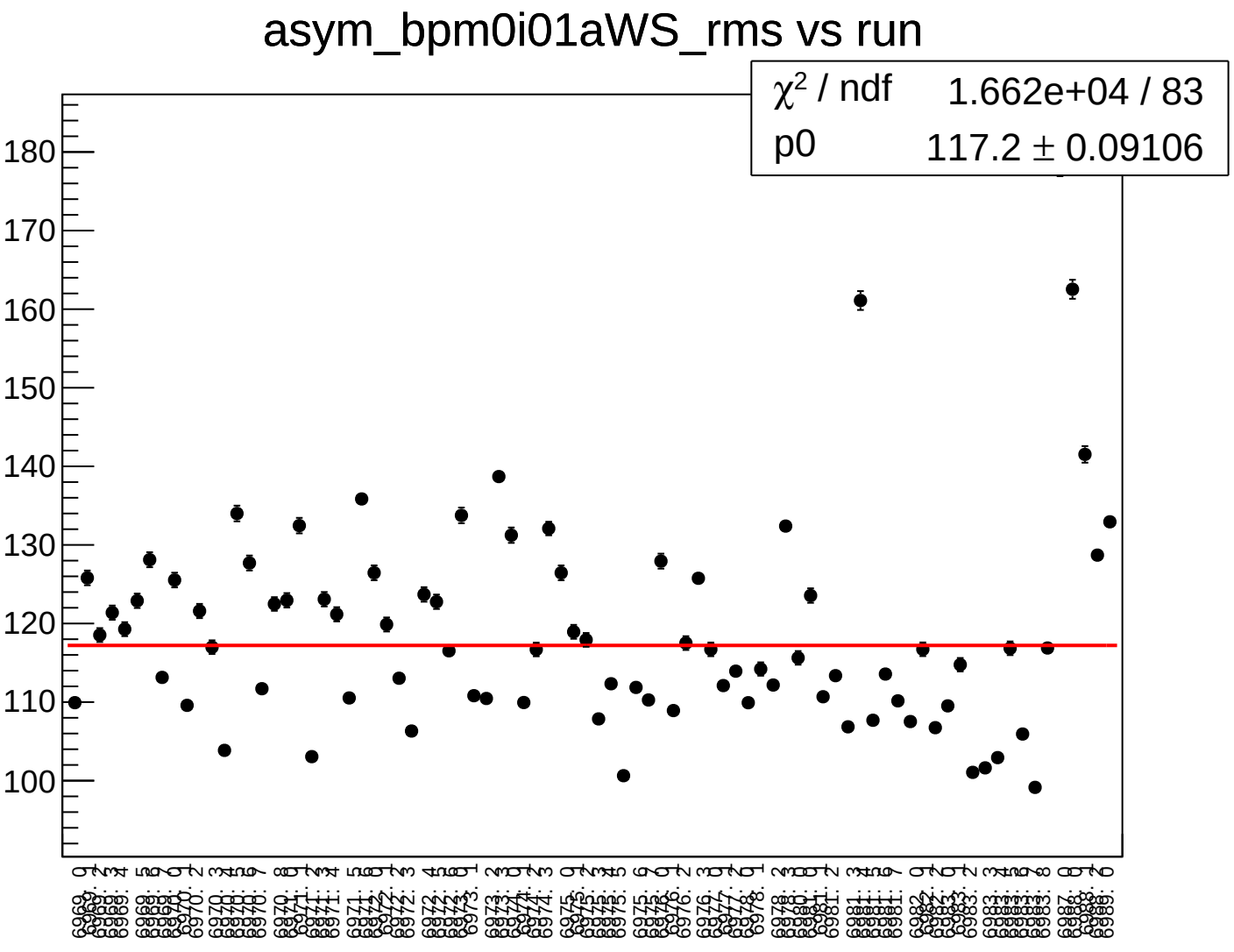

asym_bpm0i01WS_mean vs run
χ² / ndf 783 / 83
p0 1304 ± 149.2
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −1140
Std Dev 0
8
6
4
2
0
−2
−4
−6

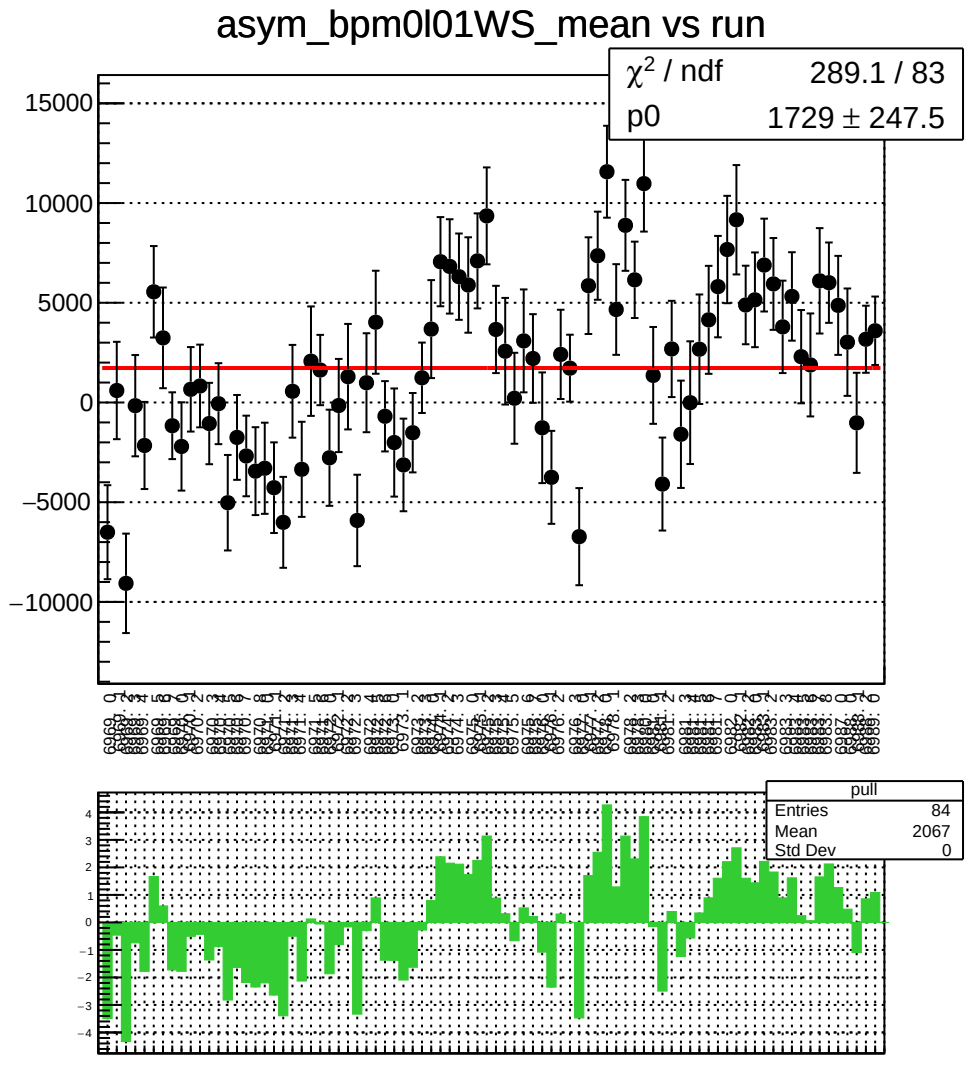

pull1D
Entries 84
Mean −0.1297
Std Dev 2.926
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

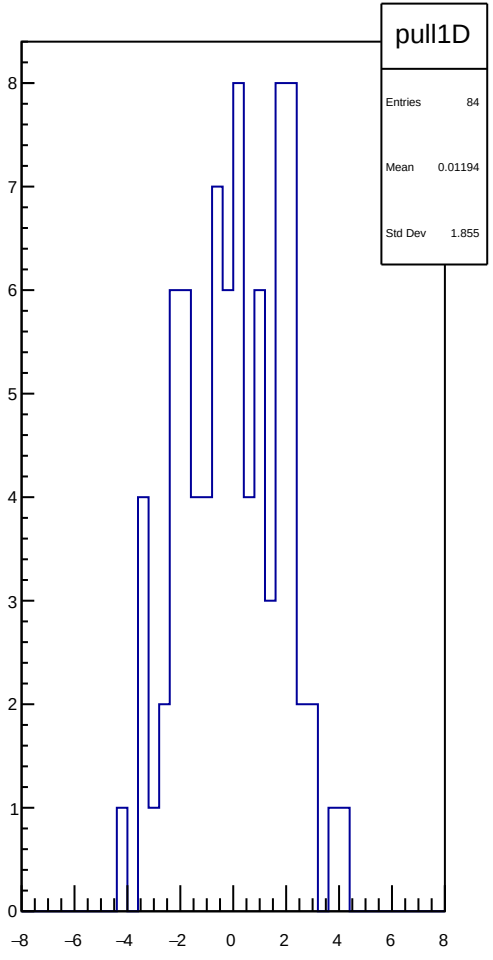

asym_bpm0i01WS_rms vs run
χ² / ndf 1.052e+04 / 83
p0 136 ± 0.1055
190
180
170
160
150
140
130
120

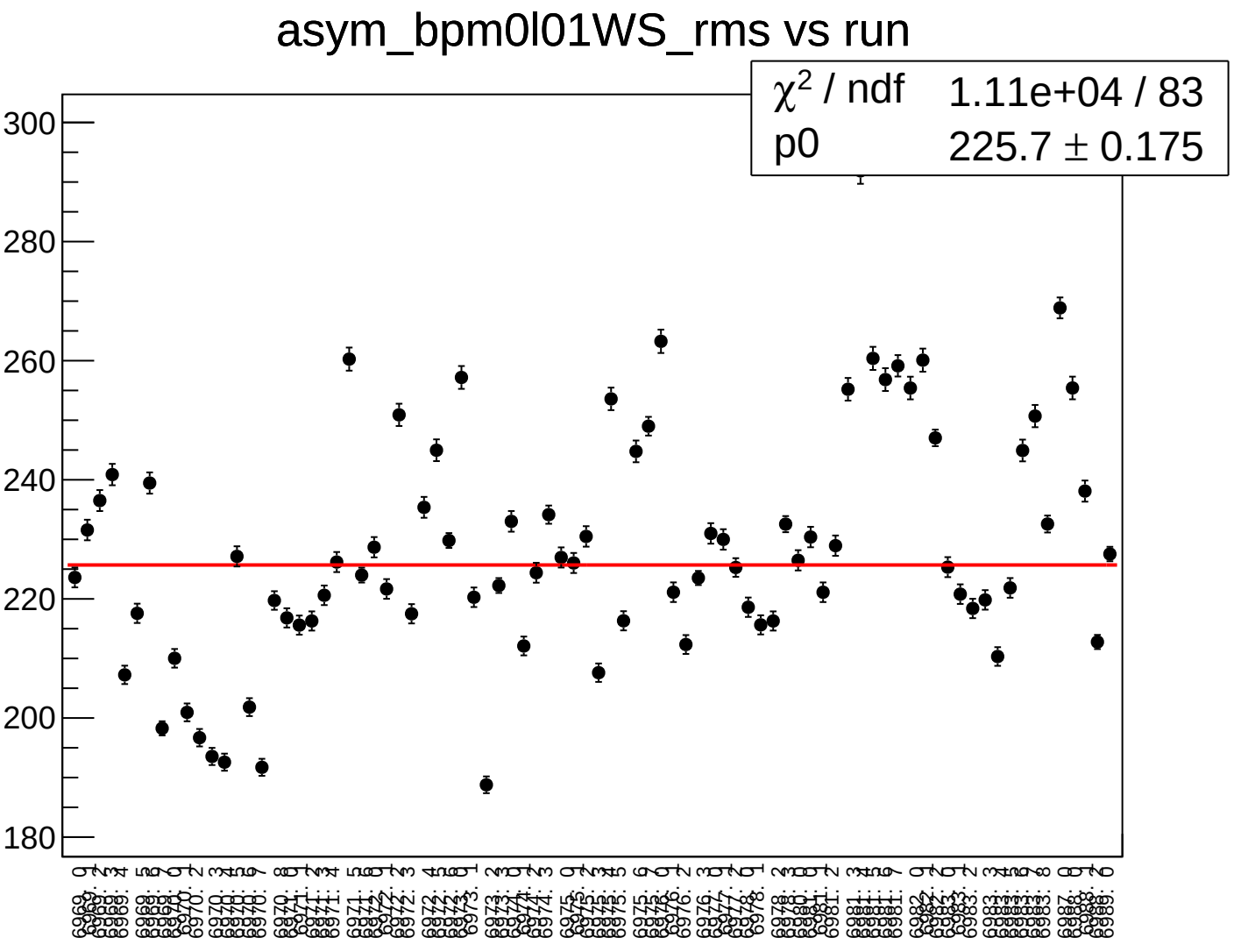

asym_bpm0i01aWS_mean vs run
χ² / ndf 1065 / 83
p0 1445 ± 128.8
pull
Entries 84
Mean −986.4
Std Dev 0

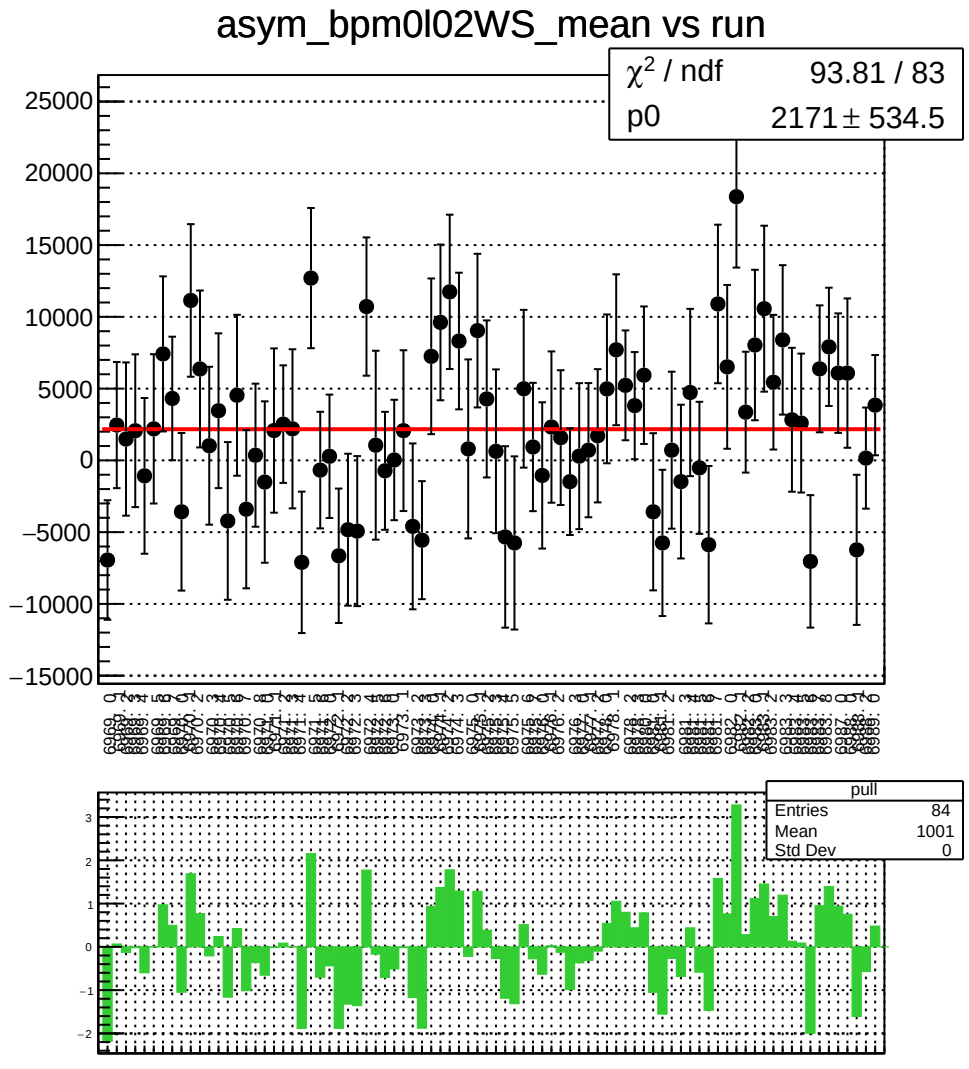

pull1D
Entries 84
Mean −0.272
Std Dev 3.069

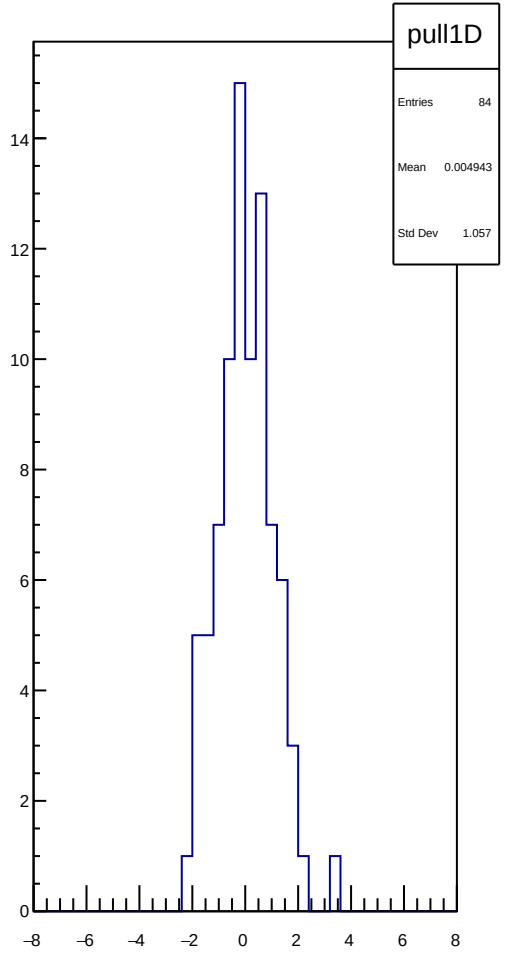

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 1.662e+04 / 83
p0 117.2 ± 0.09106
180
170
160
150
140
130
120
110
100

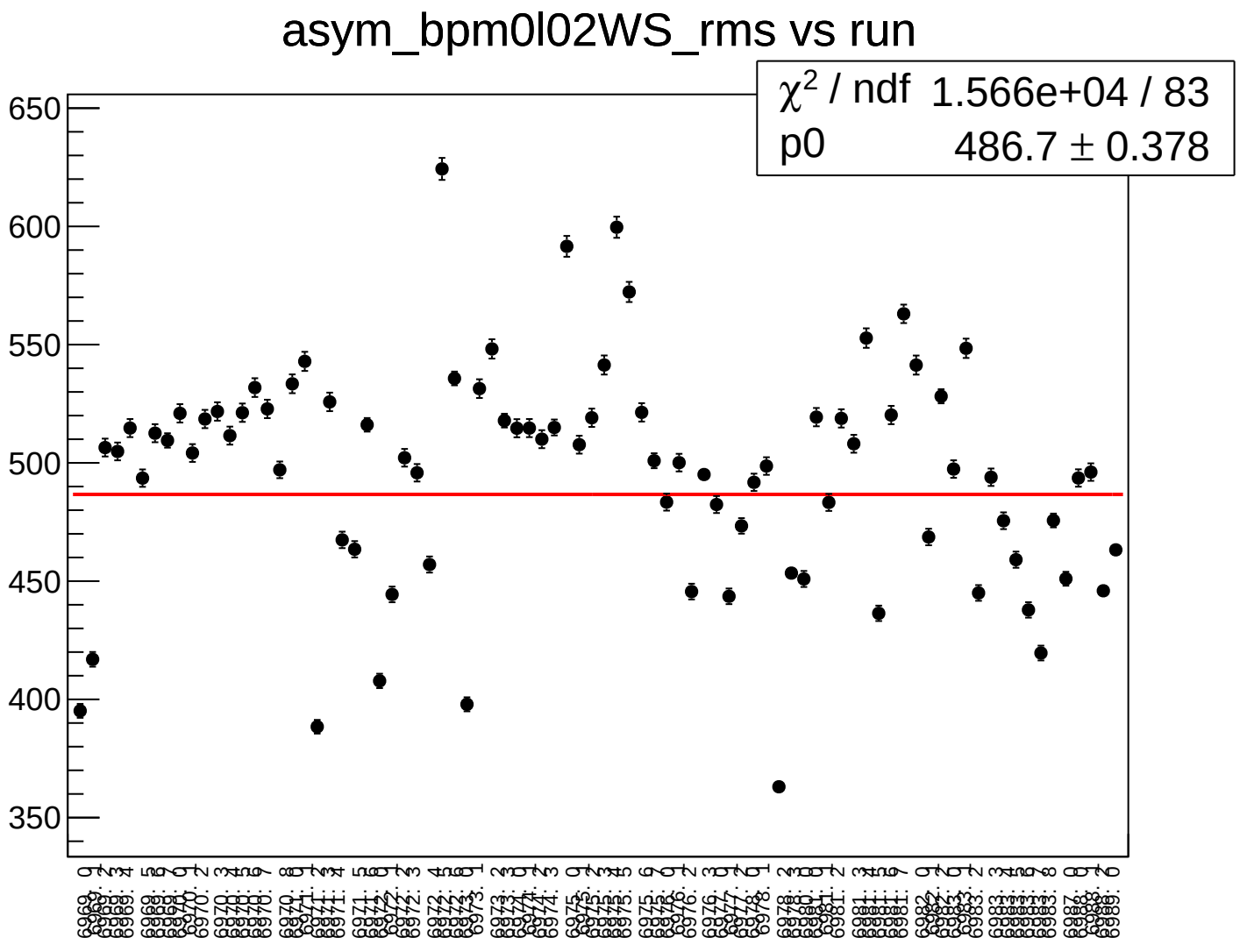

asym_bpm0l01WS_mean vs run
χ² / ndf 289.1 / 83
p0 1729 ± 247.5
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 2067
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

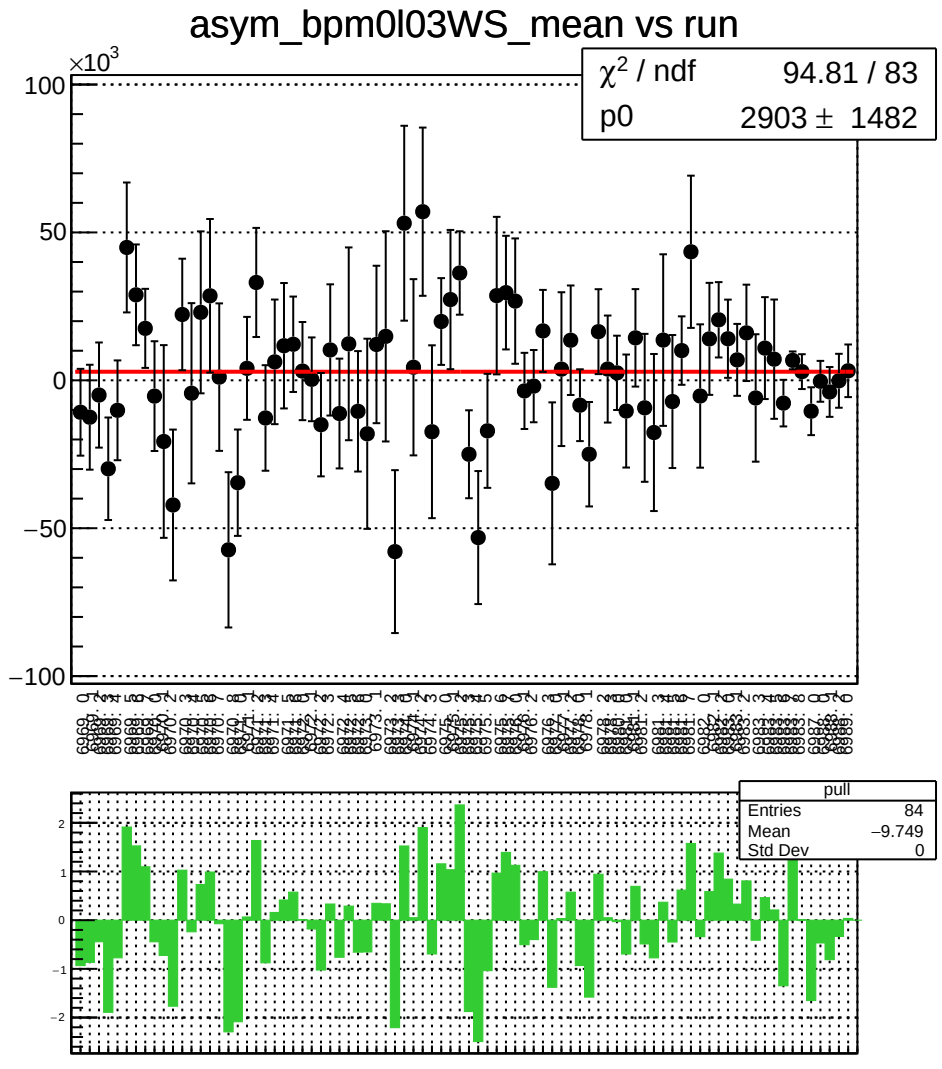

pull1D
Entries 84
Mean 0.01194
Std Dev 1.855
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

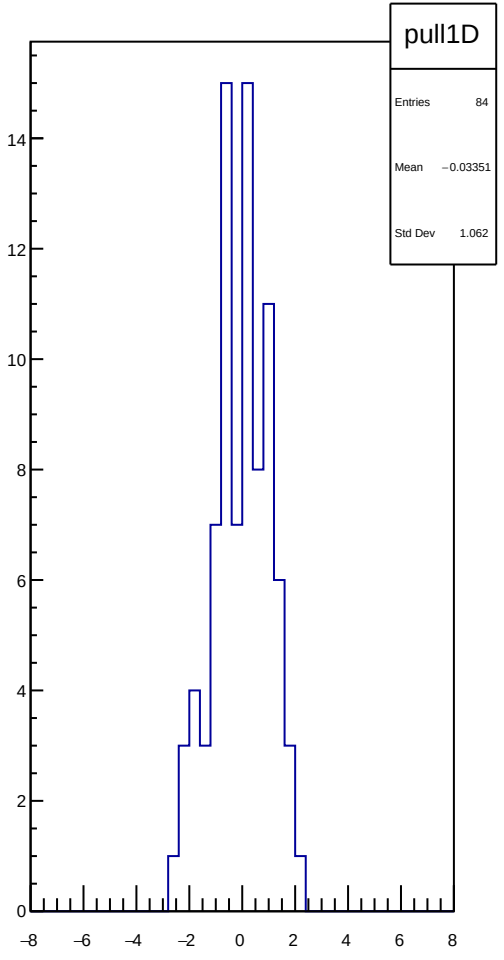

asym_bpm0l01WS_rms vs run
χ² / ndf 1.11e+04 / 83
p0 225.7 ± 0.175
300
280
260
240
220
200
180

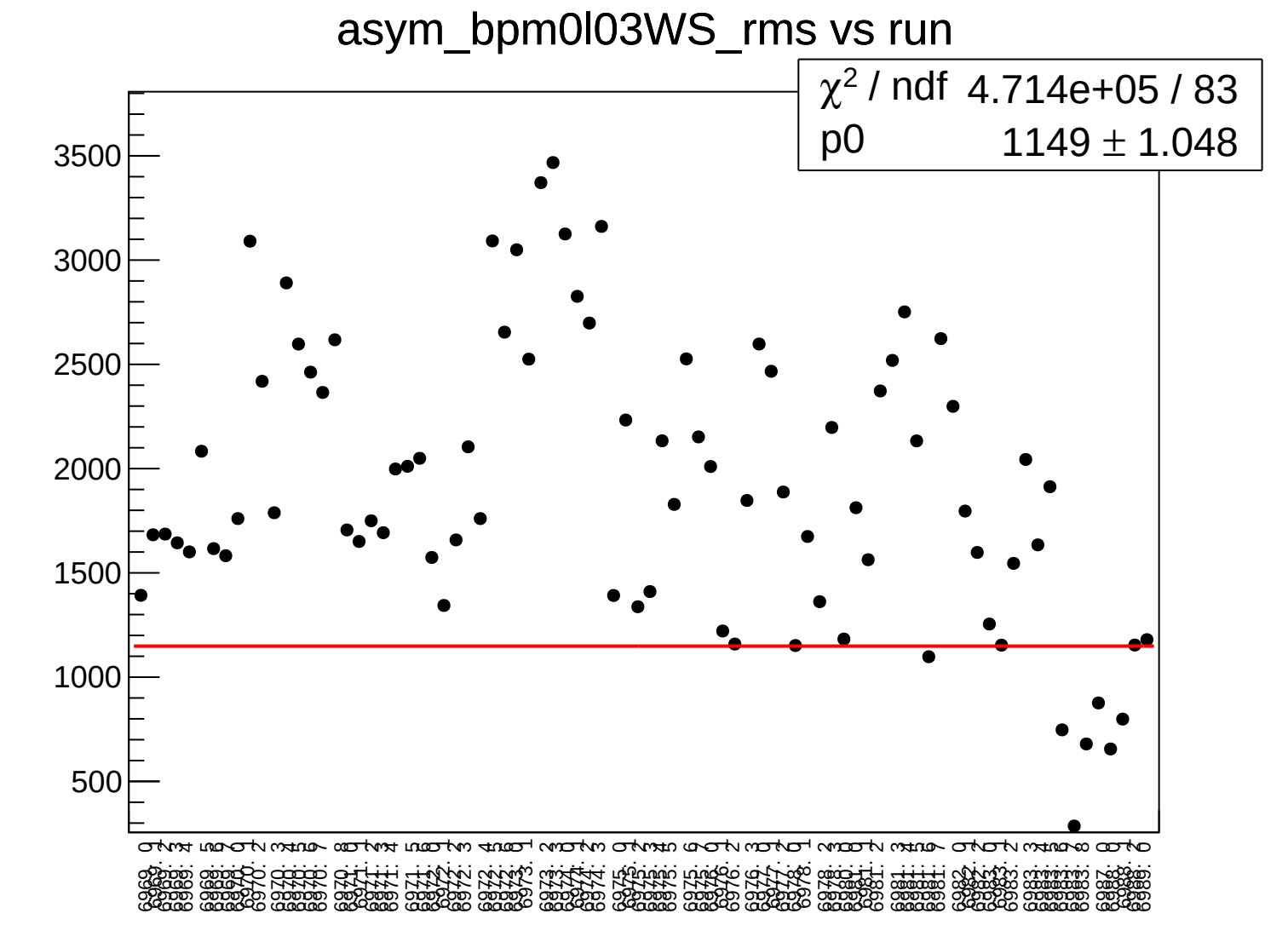

asym_bpm0l02WS_mean vs run
χ² / ndf 93.81 / 83
p0 2171 ± 534.5
pull
Entries 84
Mean 1001
Std Dev 0

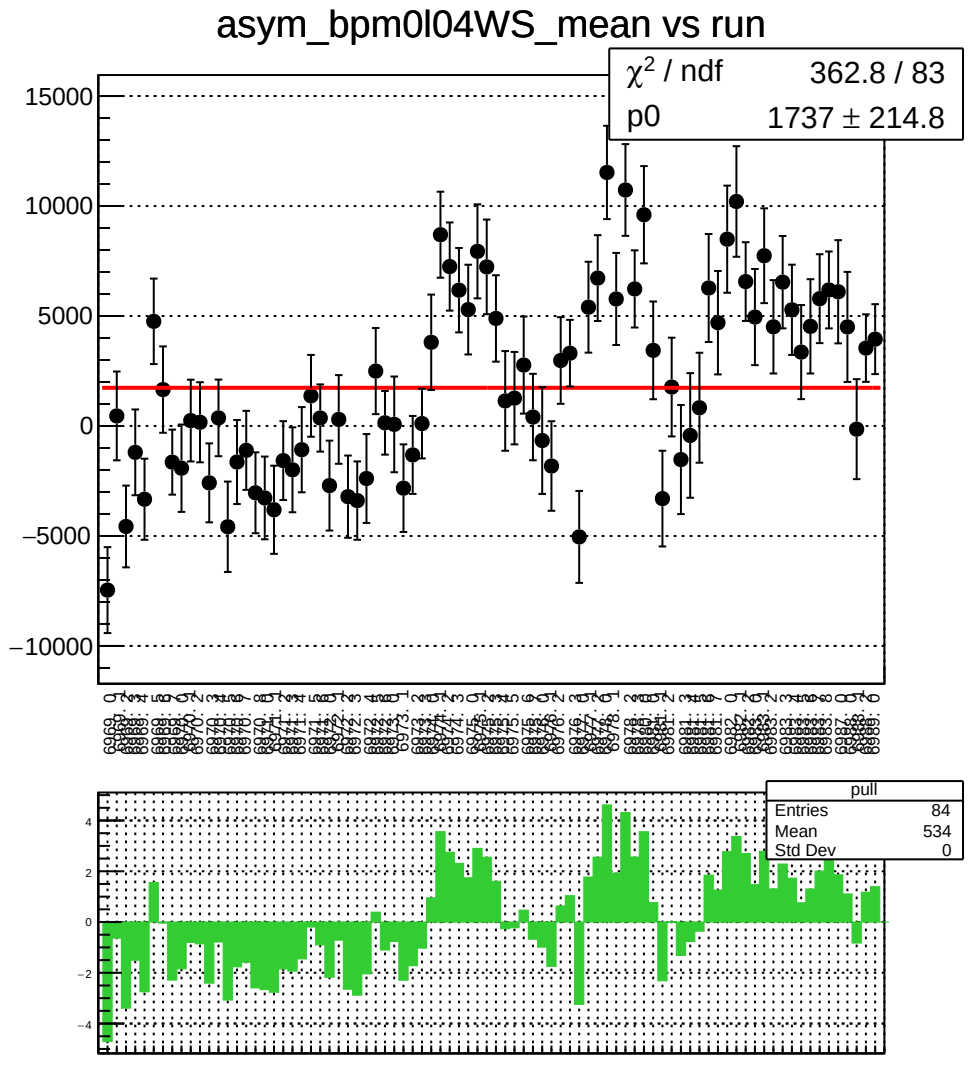

pull1D
Entries 84
Mean 0.004943
Std Dev 1.057

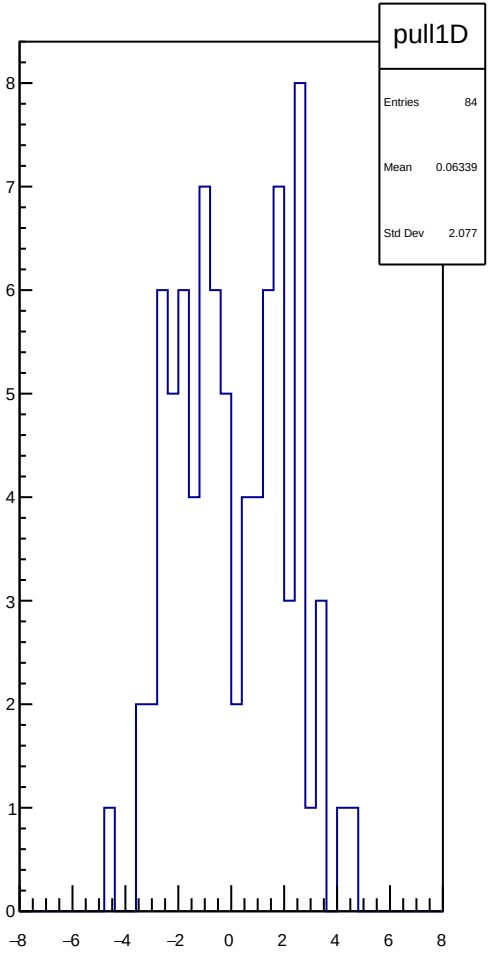

asym_bpm0l02WS_rms vs run
χ² / ndf 1.566e+04 / 83
p0 486.7 ± 0.378
650
600
550
500
450
400
350

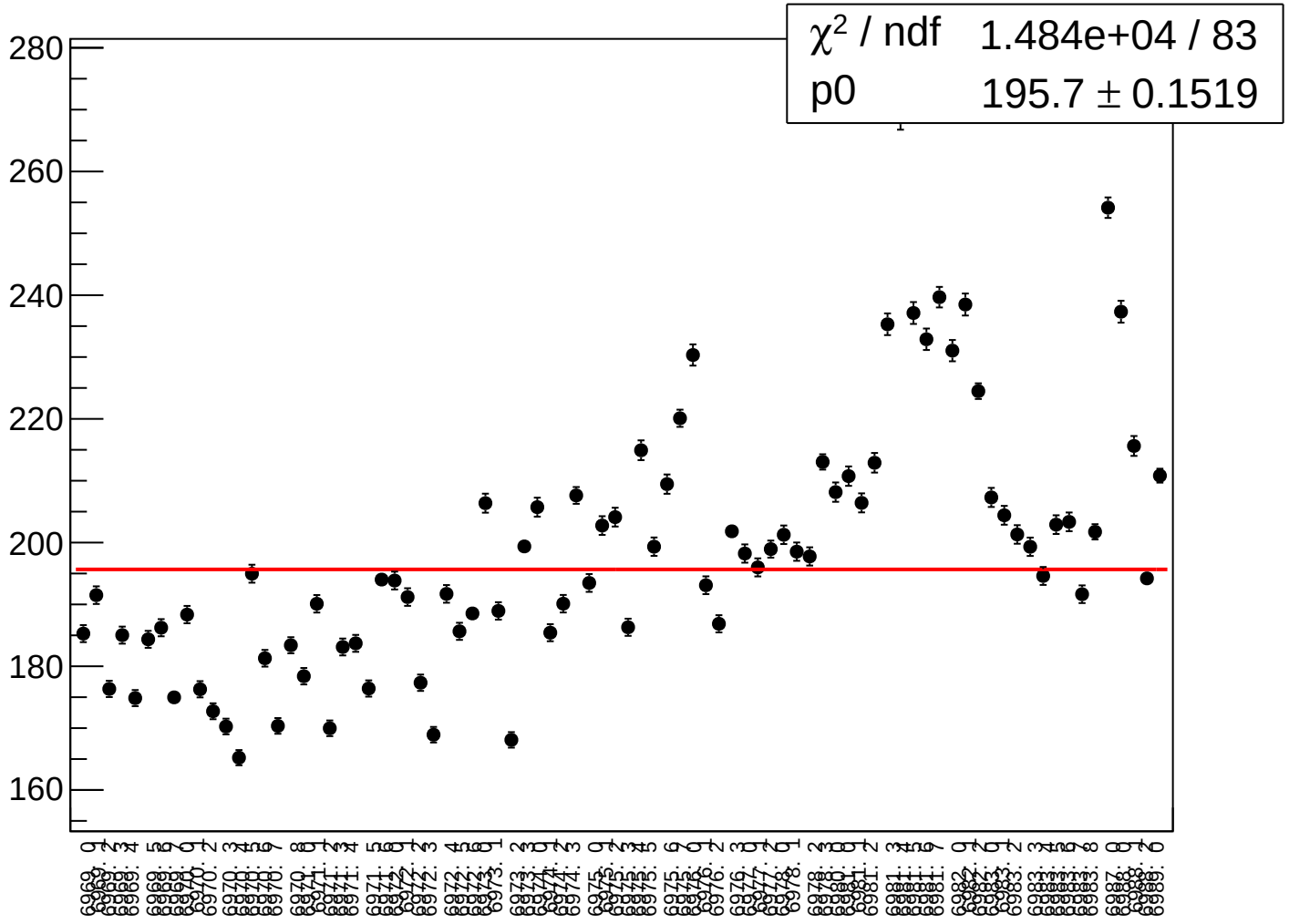

asym_bpm0l03WS_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 94.81 / 83
p0 2903 ± 1482
pull
Entries 84
Mean −9.749
Std Dev 0
2
1
0
−1
−2

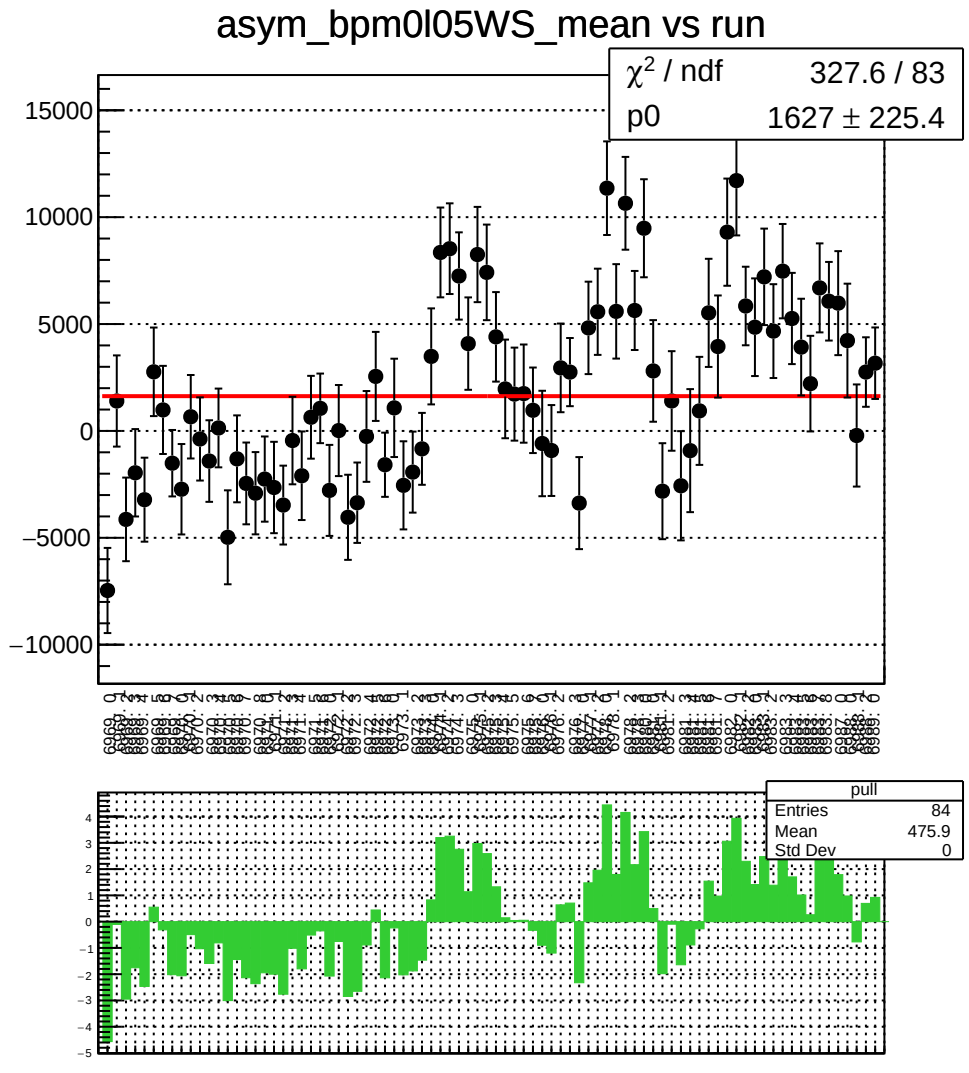

pull1D
Entries 84
Mean −0.03351
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

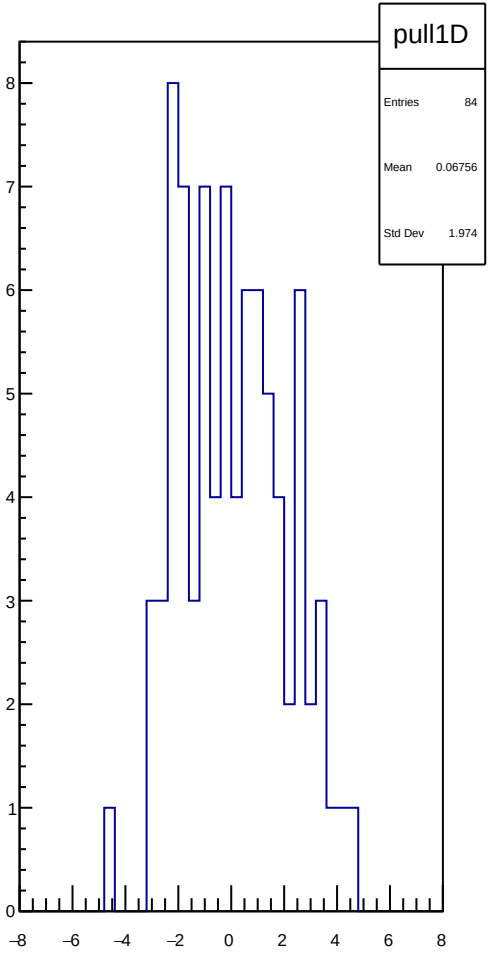

asym_bpm0l03WS_rms vs run
χ² / ndf 4.714e+05 / 83
p0 1149 ± 1.048
3500
3000
2500
2000
1500
1000
500

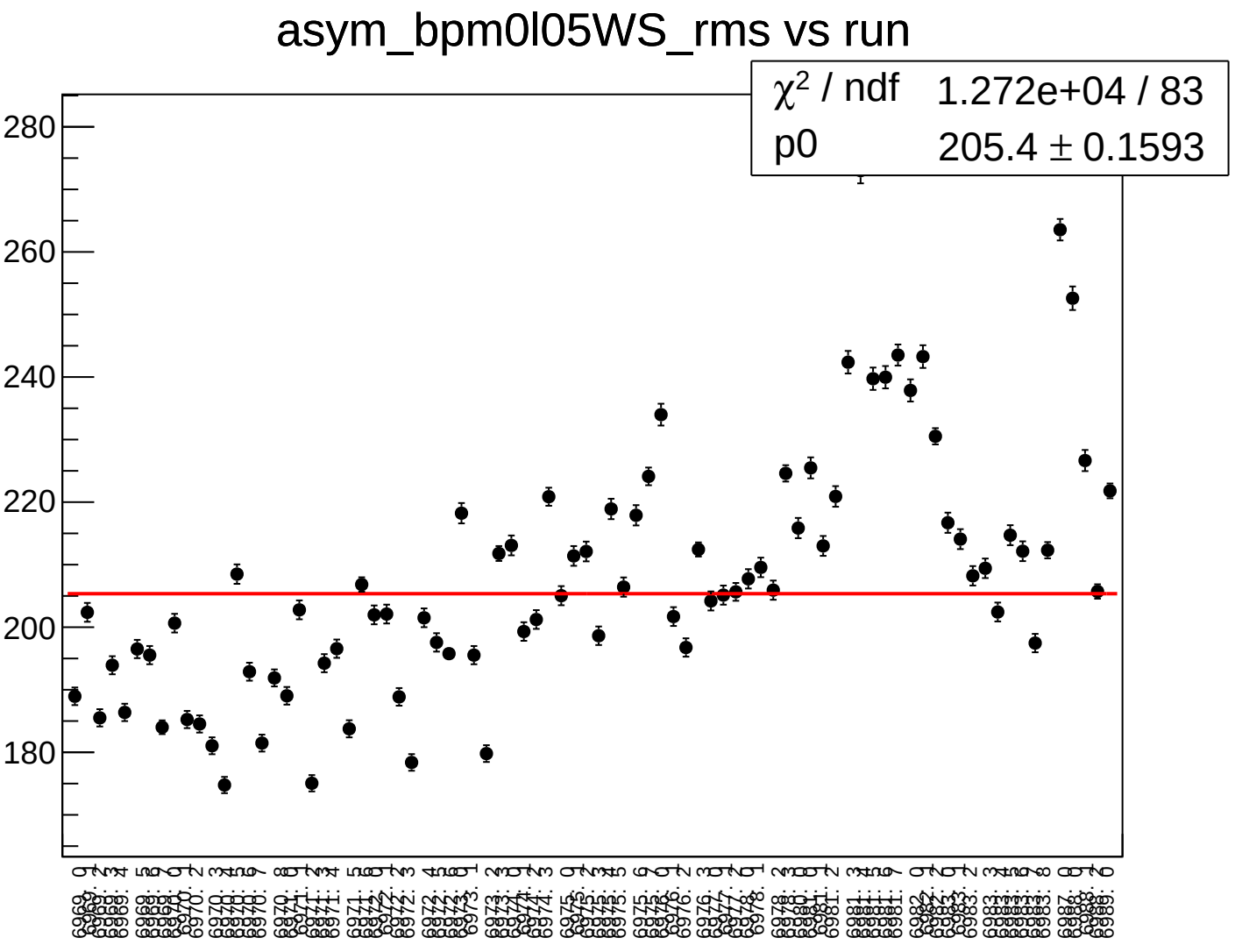

asym_bpm0l04WS_mean vs run
χ² / ndf 362.8 / 83
p0 1737 ± 214.8
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 534
Std Dev 0
4
2
0
−2
−4

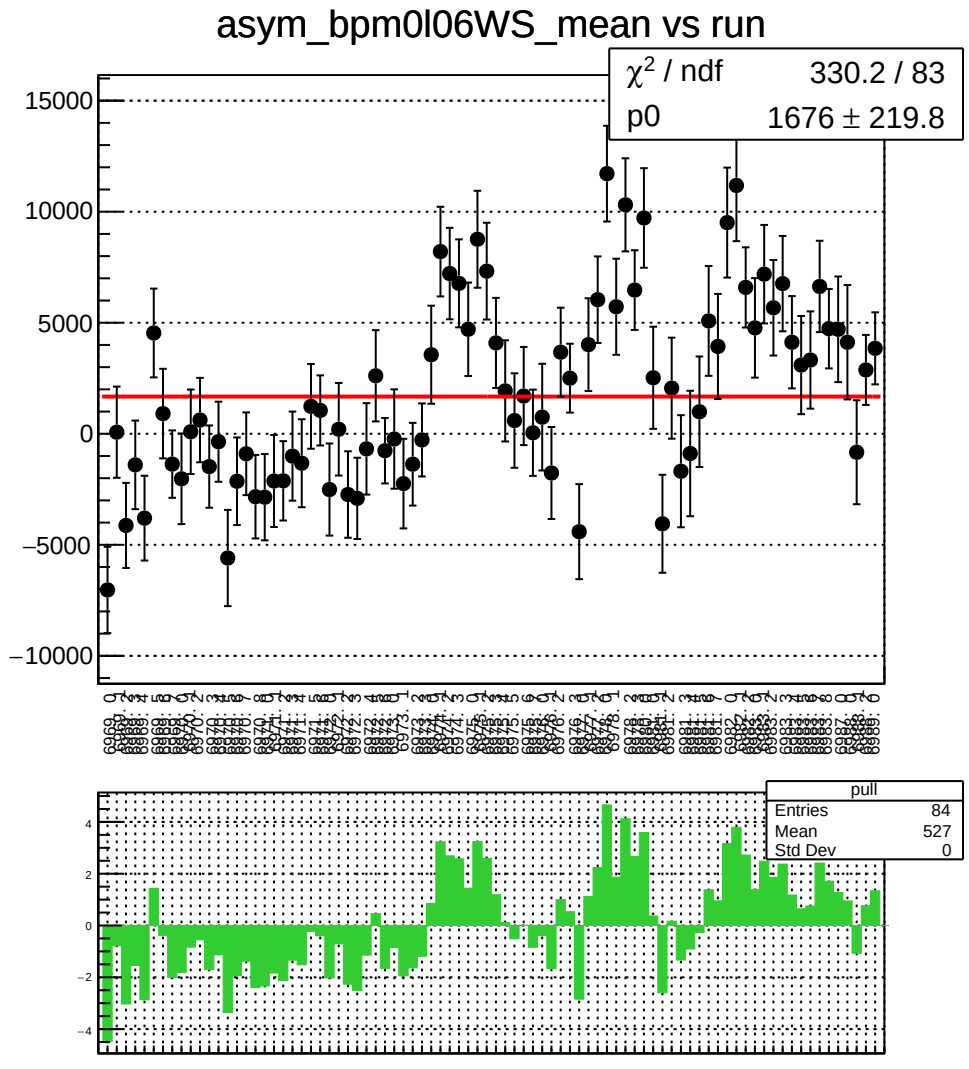

pull1D
Entries 84
Mean 0.06339
Std Dev 2.077
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

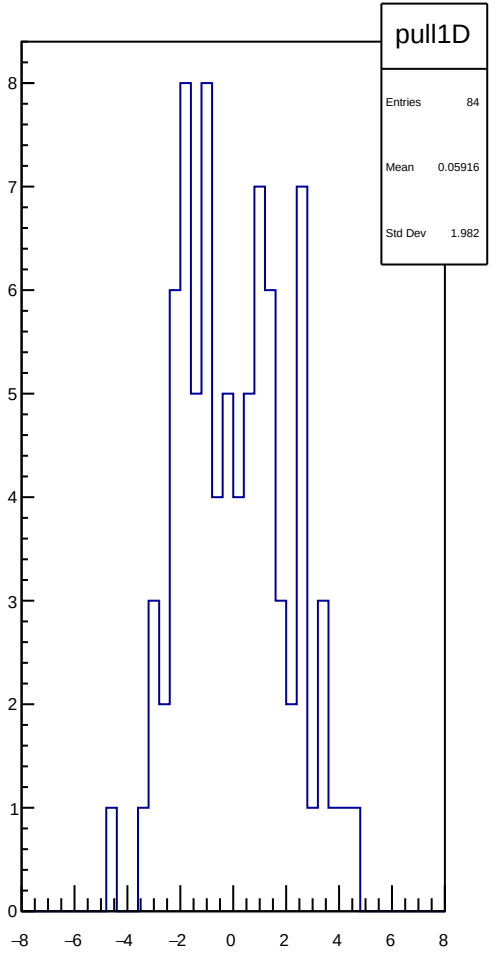

asym_bpm0l04WS_rms vs run
χ² / ndf 1.484e+04 / 83
p0 195.7 ± 0.1519
280
260
240
220
200
180
160

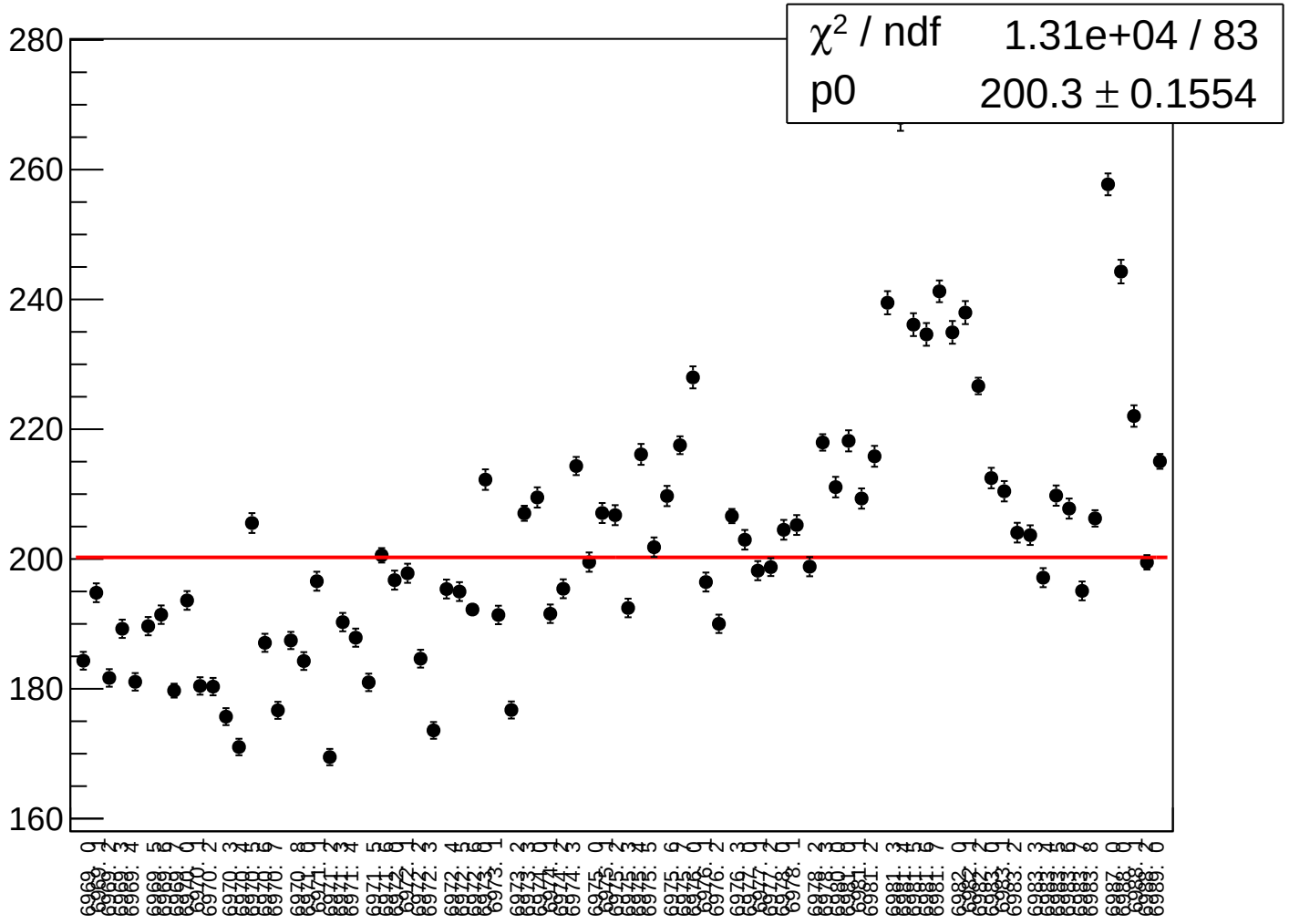

asym_bpm0l05WS_mean vs run
χ² / ndf 327.6 / 83
p0 1627 ± 225.4
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 475.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

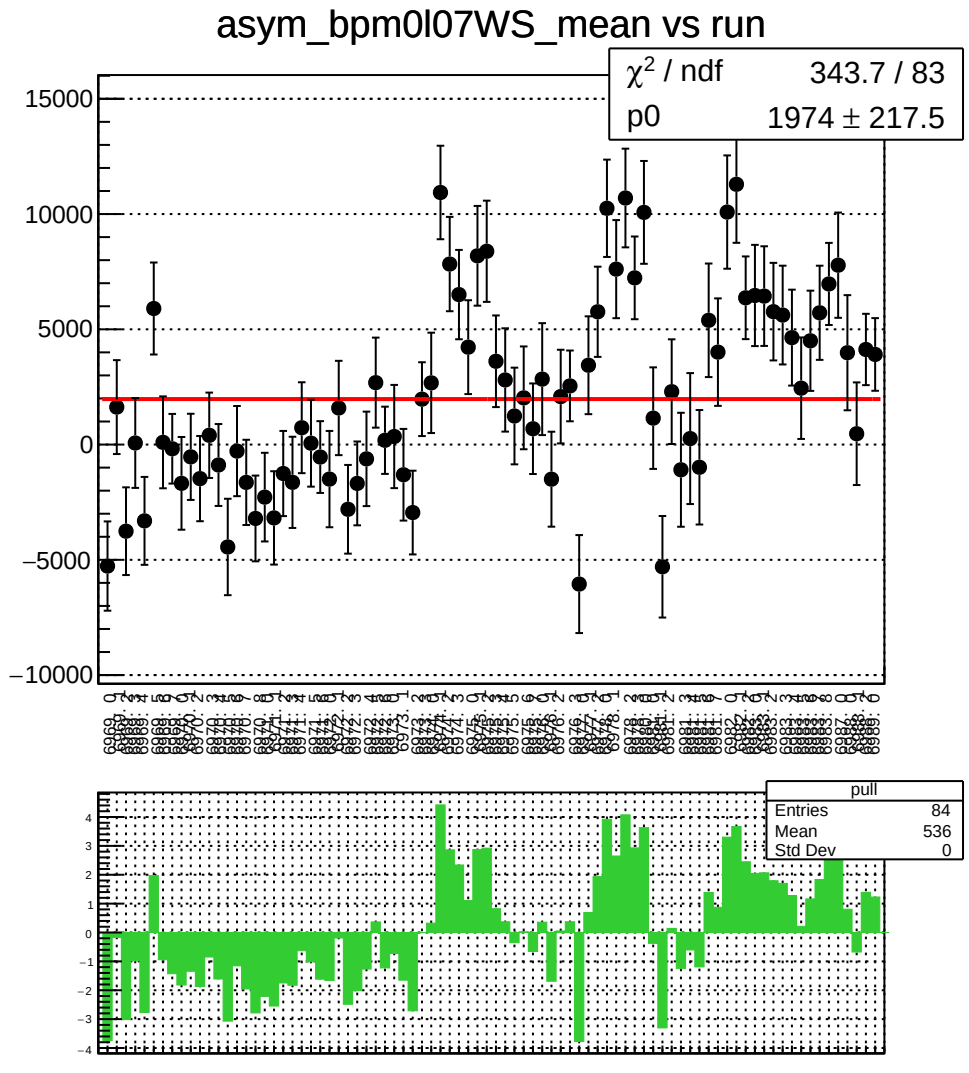

pull1D
Entries 84
Mean 0.06756
Std Dev 1.974
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

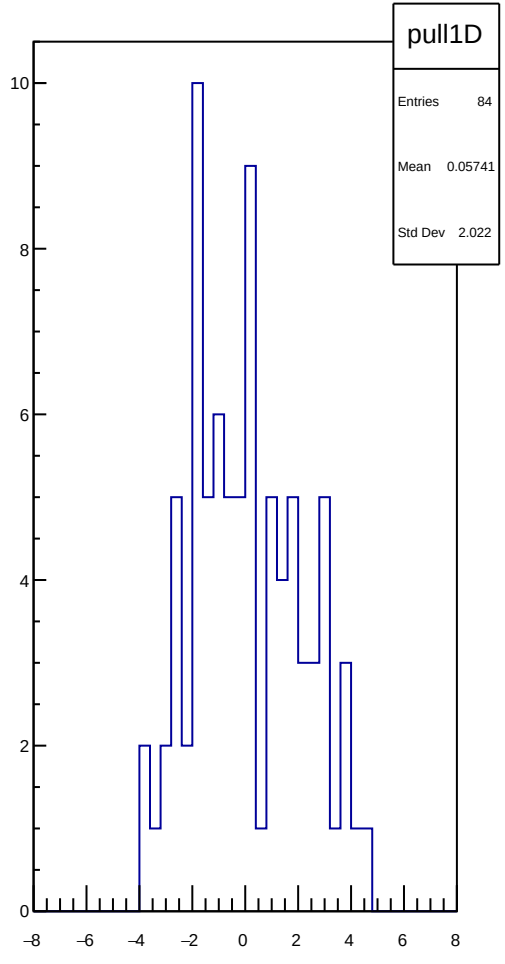

asym_bpm0l05WS_rms vs run
χ² / ndf 1.272e+04 / 83
p0 205.4 ± 0.1593
280
260
240
220
200
180

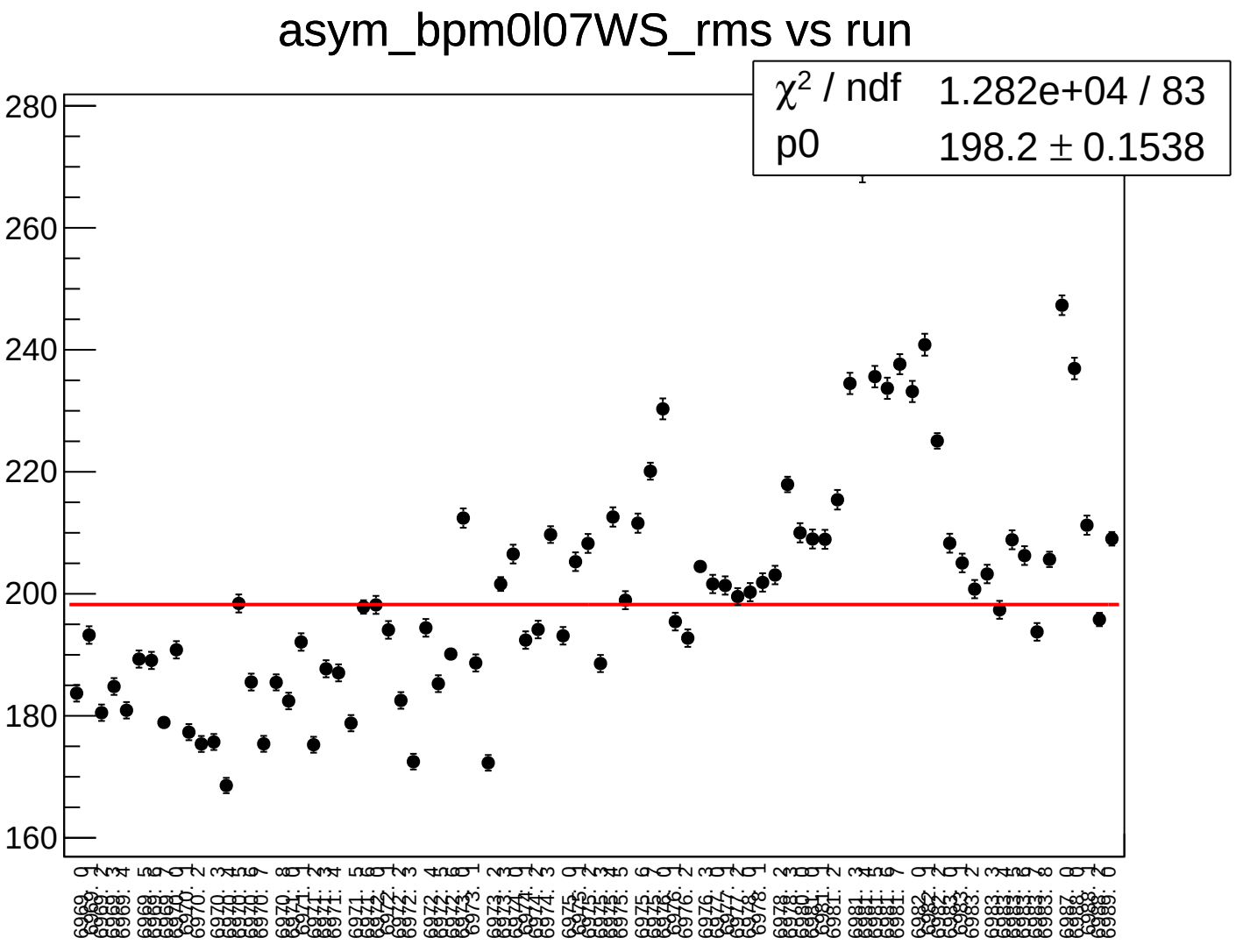

asym_bpm0l06WS_mean vs run
χ² / ndf 330.2 / 83
p0 1676 ± 219.8
pull
Entries 84
Mean 527
Std Dev 0

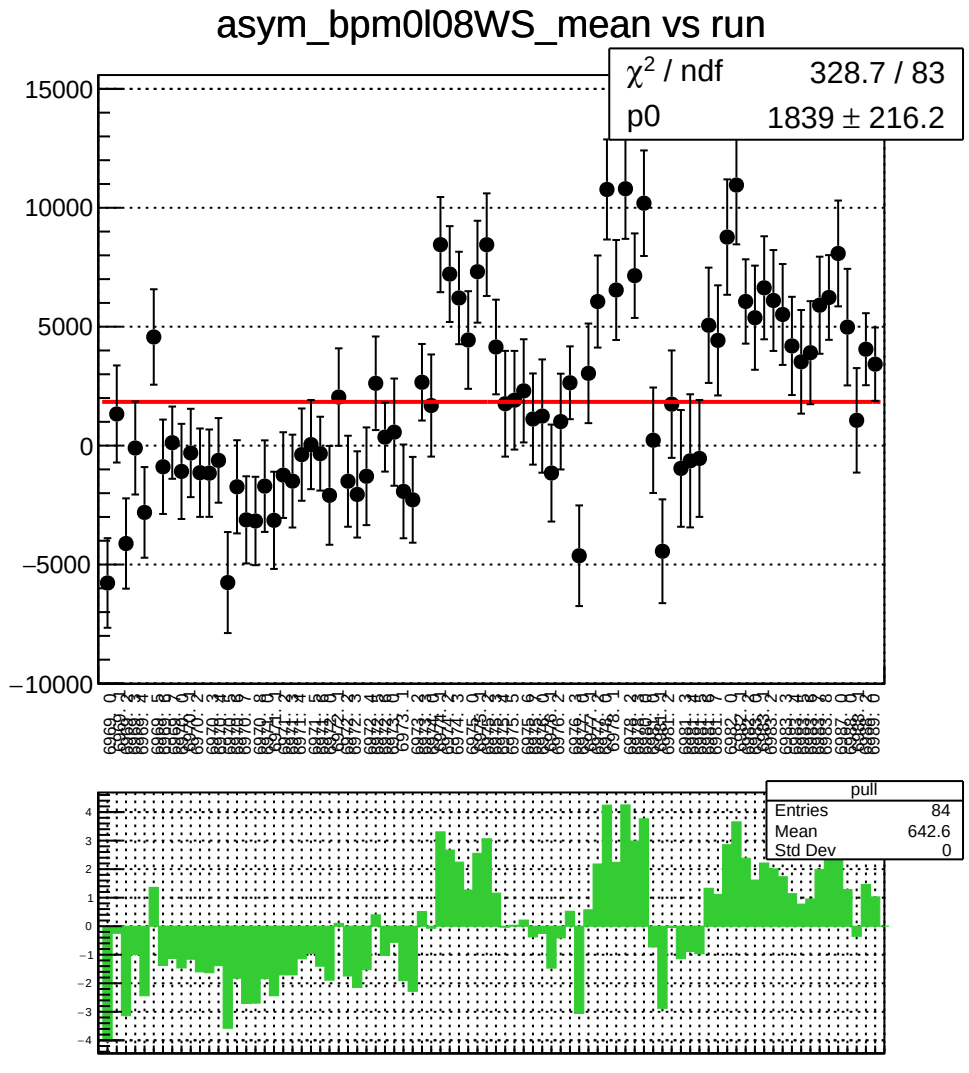

pull1D
Entries 84
Mean 0.05916
Std Dev 1.982

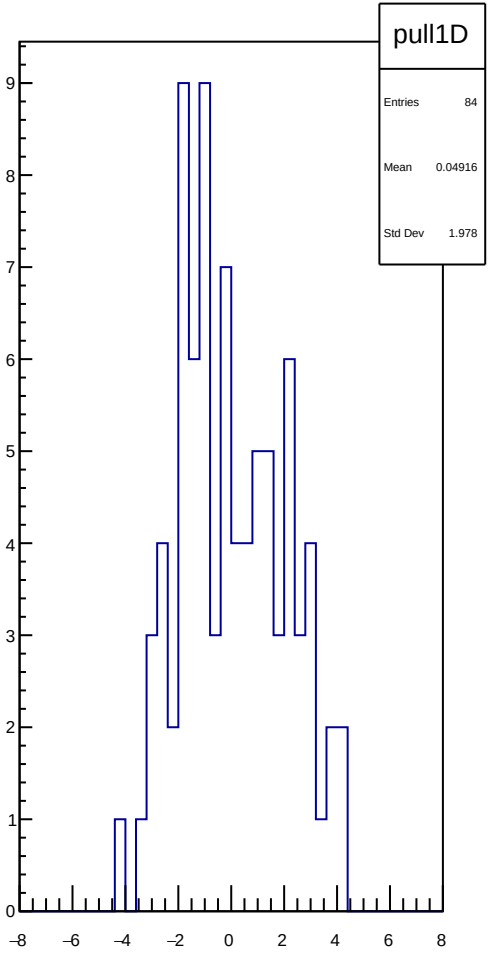

asym_bpm0l06WS_rms vs run
χ^2 / ndf 1.31e+04 / 83
p0 200.3 ± 0.1554
280
260
240
220
200
180
160

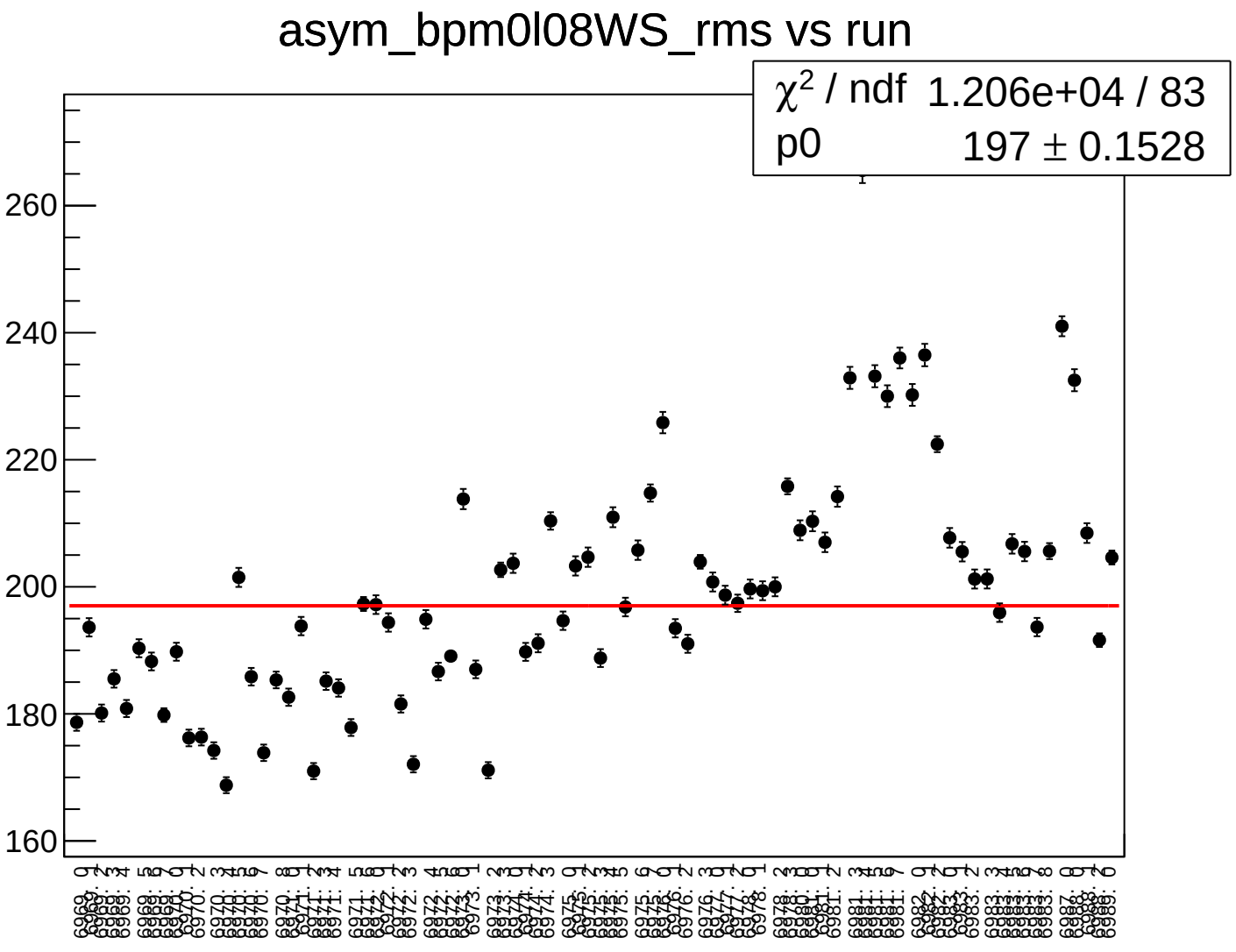

asym_bpm0l07WS_mean vs run
χ² / ndf 343.7 / 83
p0 1974 ± 217.5
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 536
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

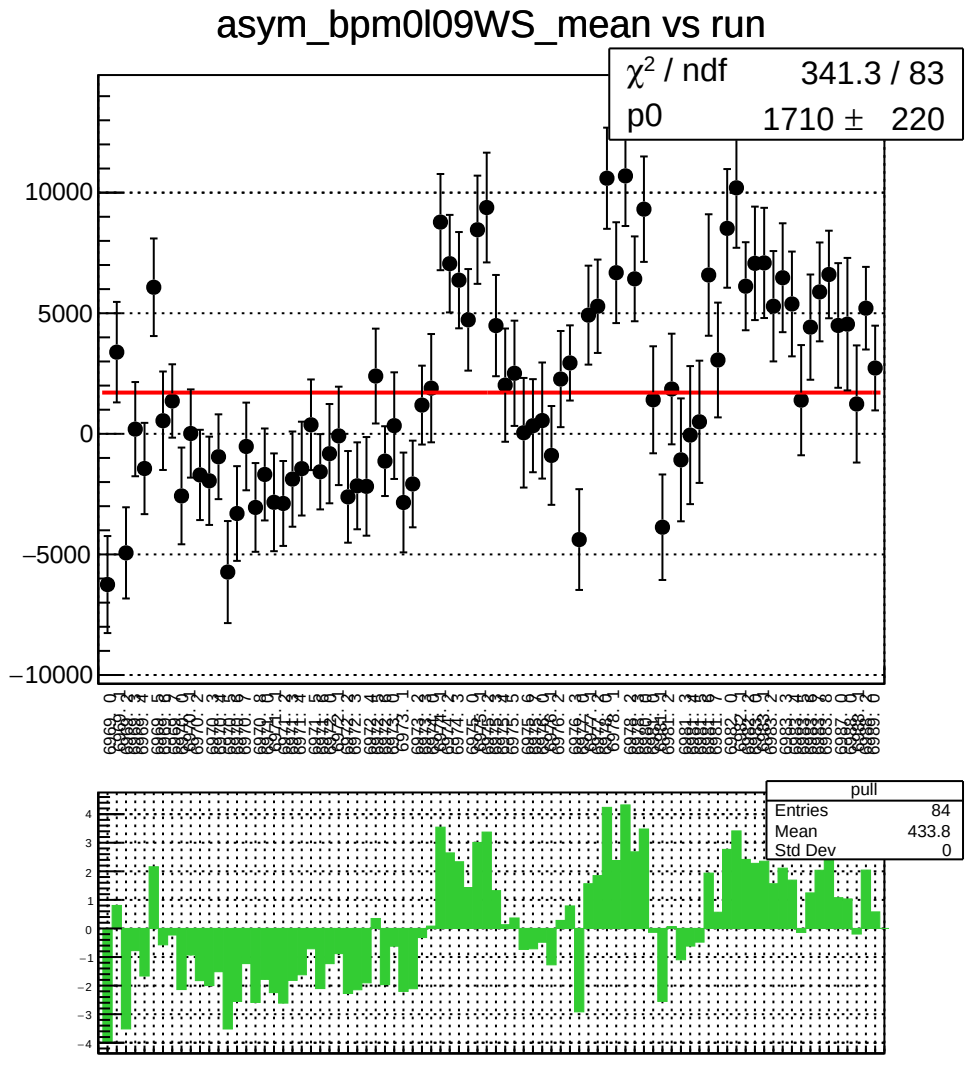

pull1D
Entries 84
Mean 0.05741
Std Dev 2.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

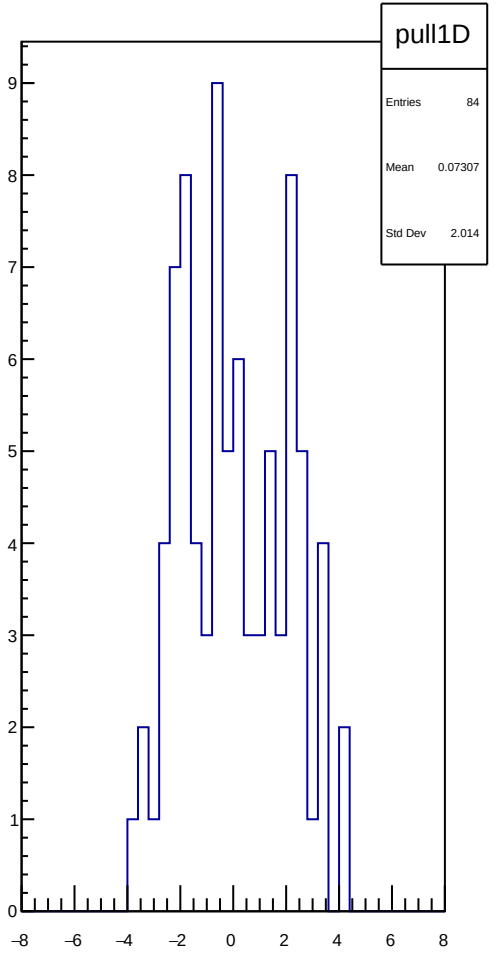

asym_bpm0l07WS_rms vs run
χ² / ndf 1.282e+04 / 83
p0 198.2 ± 0.1538
280
260
240
220
200
180
160

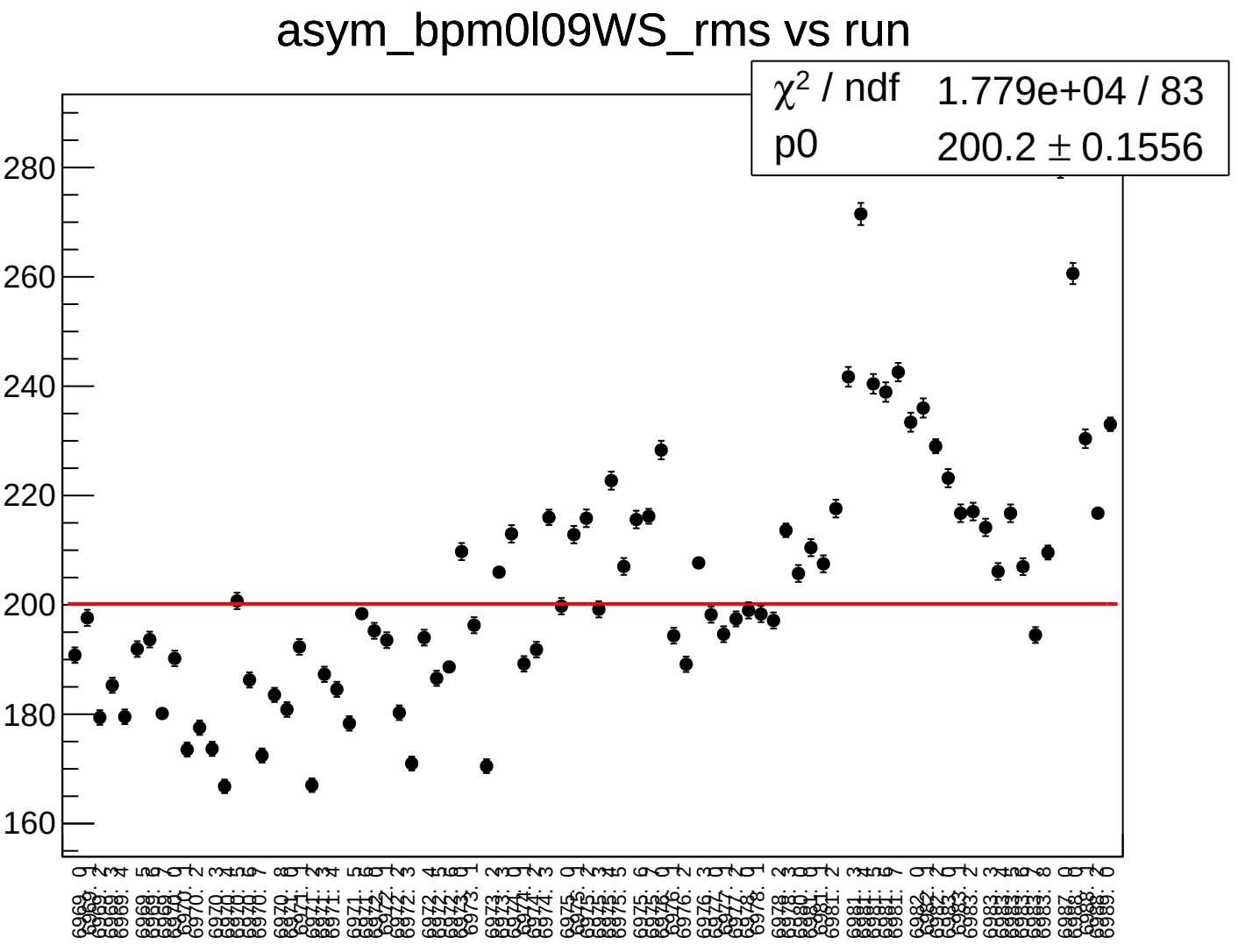

asym_bpm0l08WS_mean vs run
χ² / ndf 328.7 / 83
p0 1839 ± 216.2
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 642.6
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

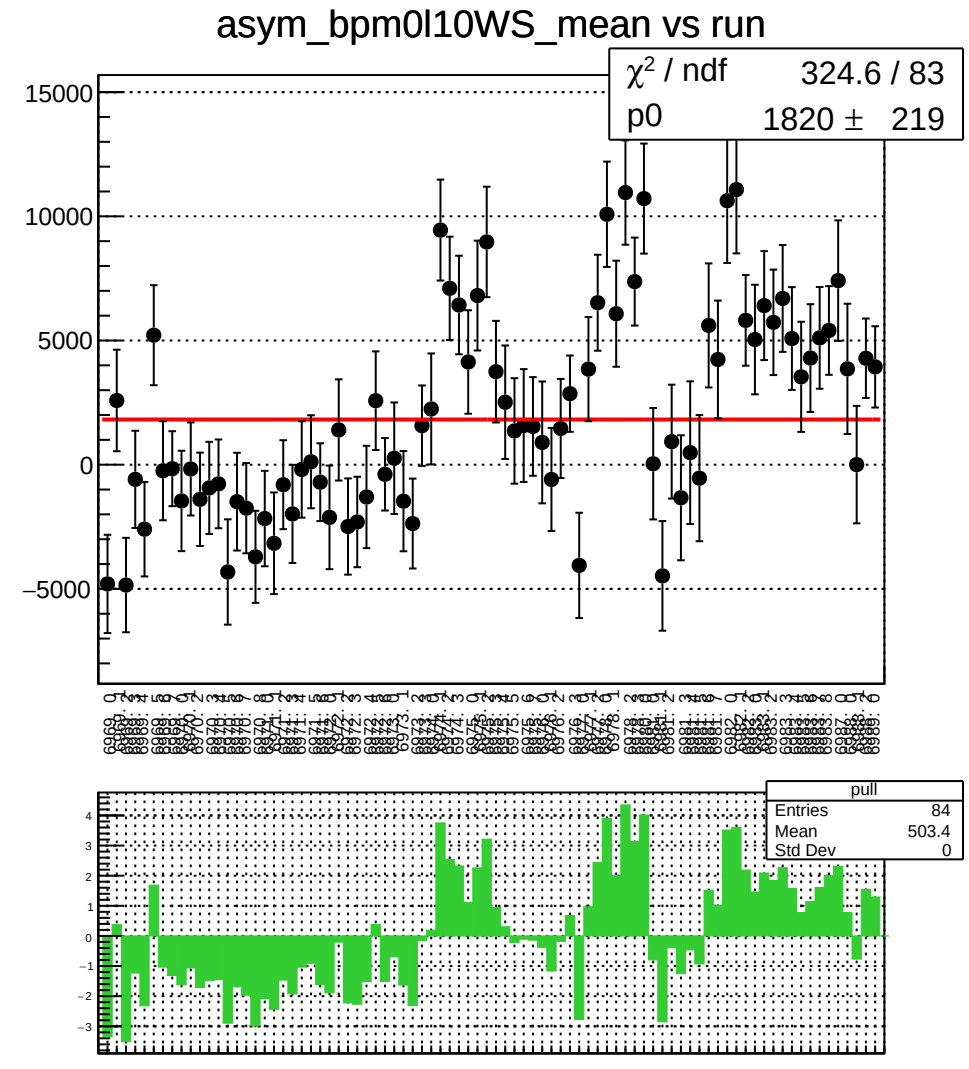

pull1D
Entries 84
Mean 0.04916
Std Dev 1.978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

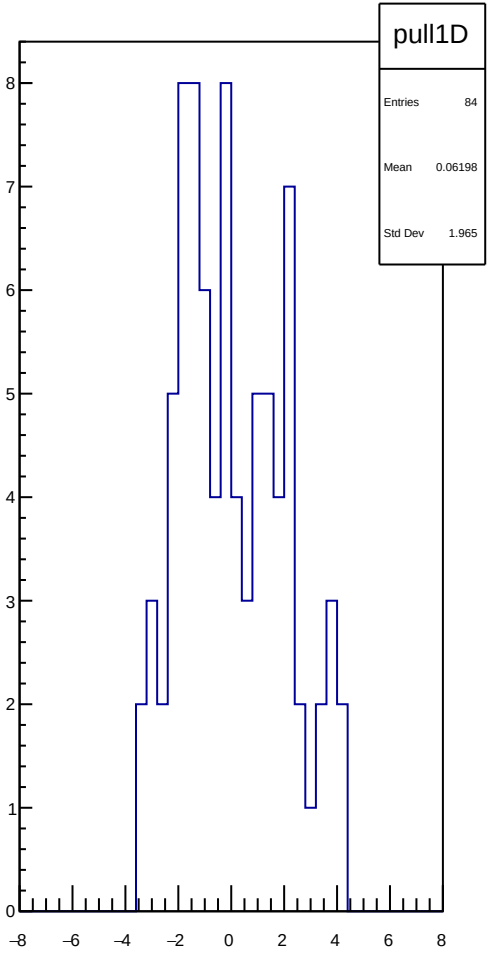

asym_bpm0l08WS_rms vs run
χ² / ndf 1.206e+04 / 83
p0 197 ± 0.1528
260
240
220
200
180
160

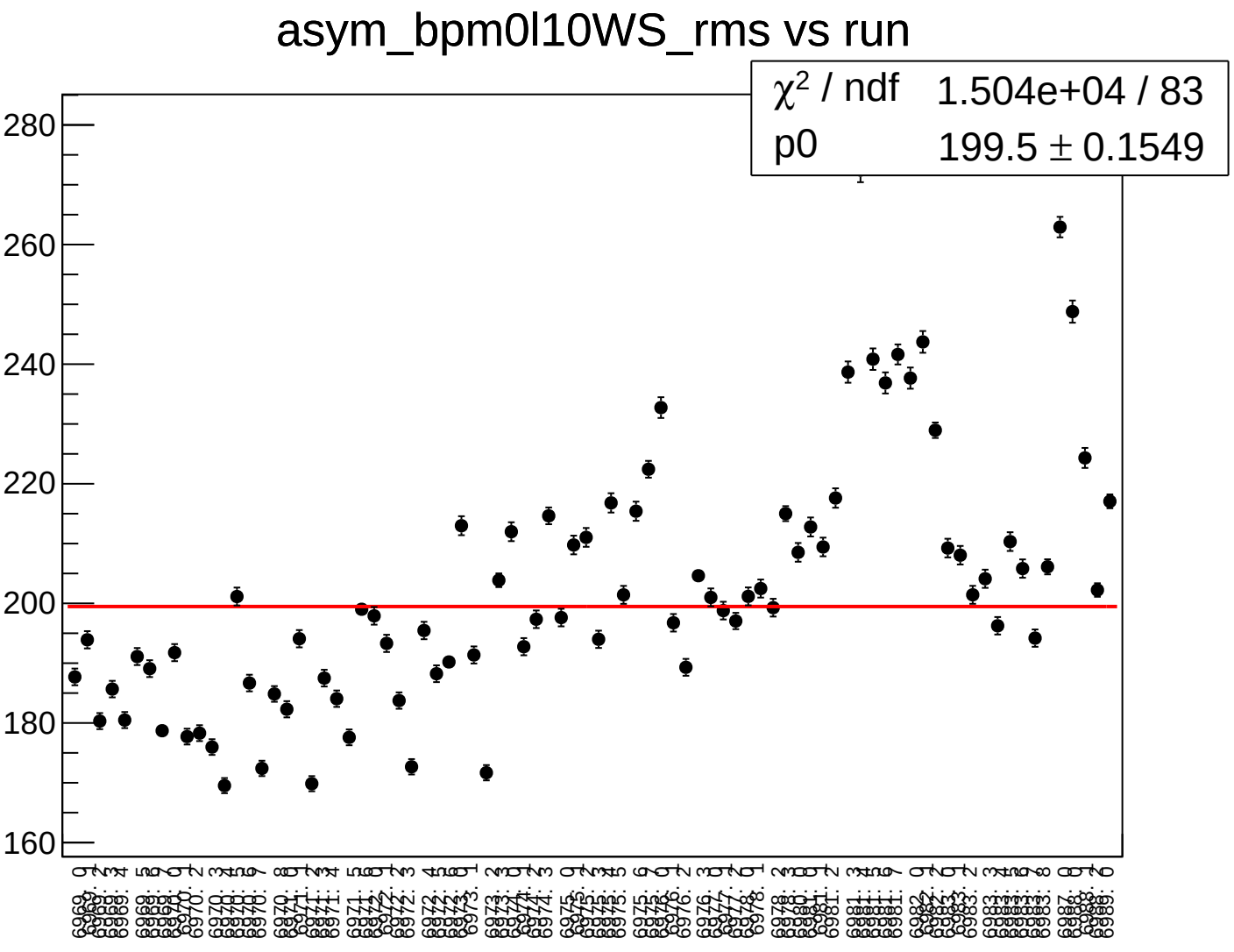

asym_bpm0l09WS_mean vs run
χ² / ndf 341.3 / 83
p0 1710 ± 220
pull
Entries 84
Mean 433.8
Std Dev 0

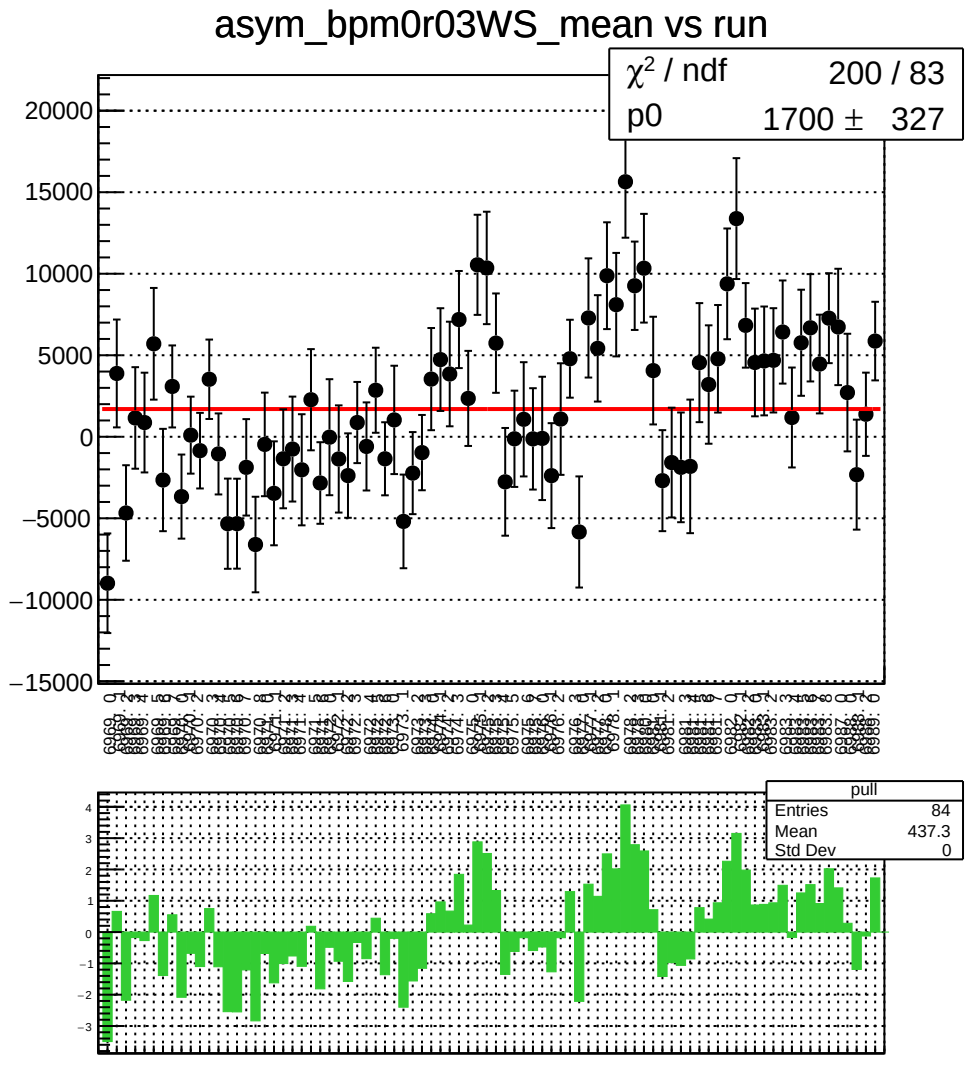

pull1D
Entries 84
Mean 0.07307
Std Dev 2.014

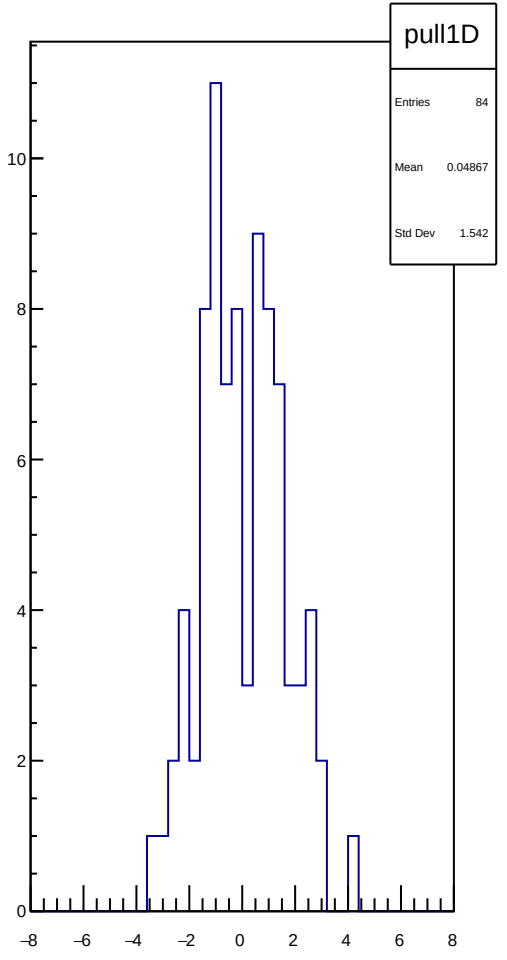

asym_bpm0l09WS_rms vs run
χ^2 / ndf 1.779e+04 / 83
p0 200.2 ± 0.1556
280
260
240
220
200
180
160

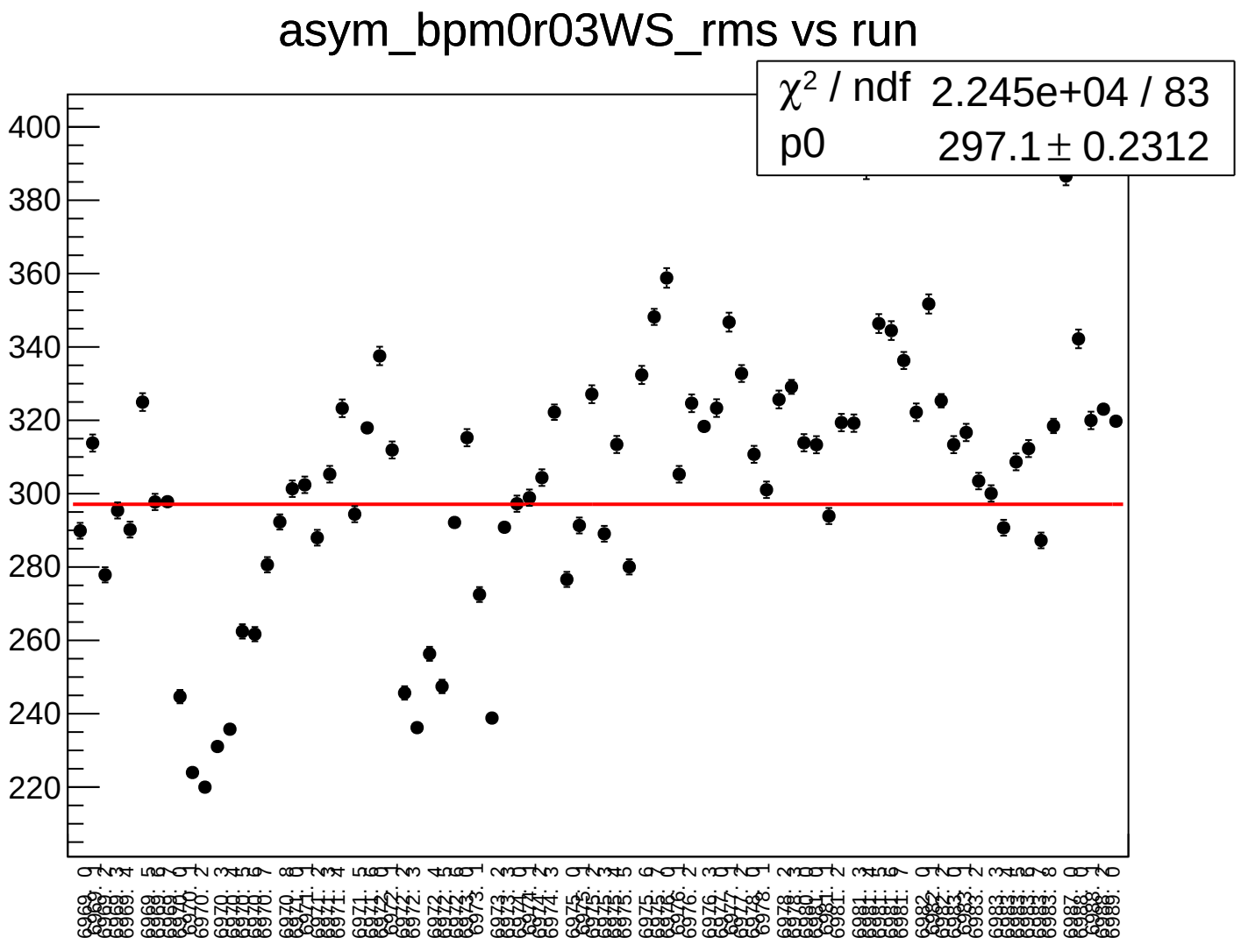

asym_bpm0l10WS_mean vs run
χ² / ndf 324.6 / 83
p0 1820 ± 219
15000
10000
5000
0
−5000
pull
Entries 84
Mean 503.4
Std Dev 0
4
3
2
1
0
−1
−2
−3

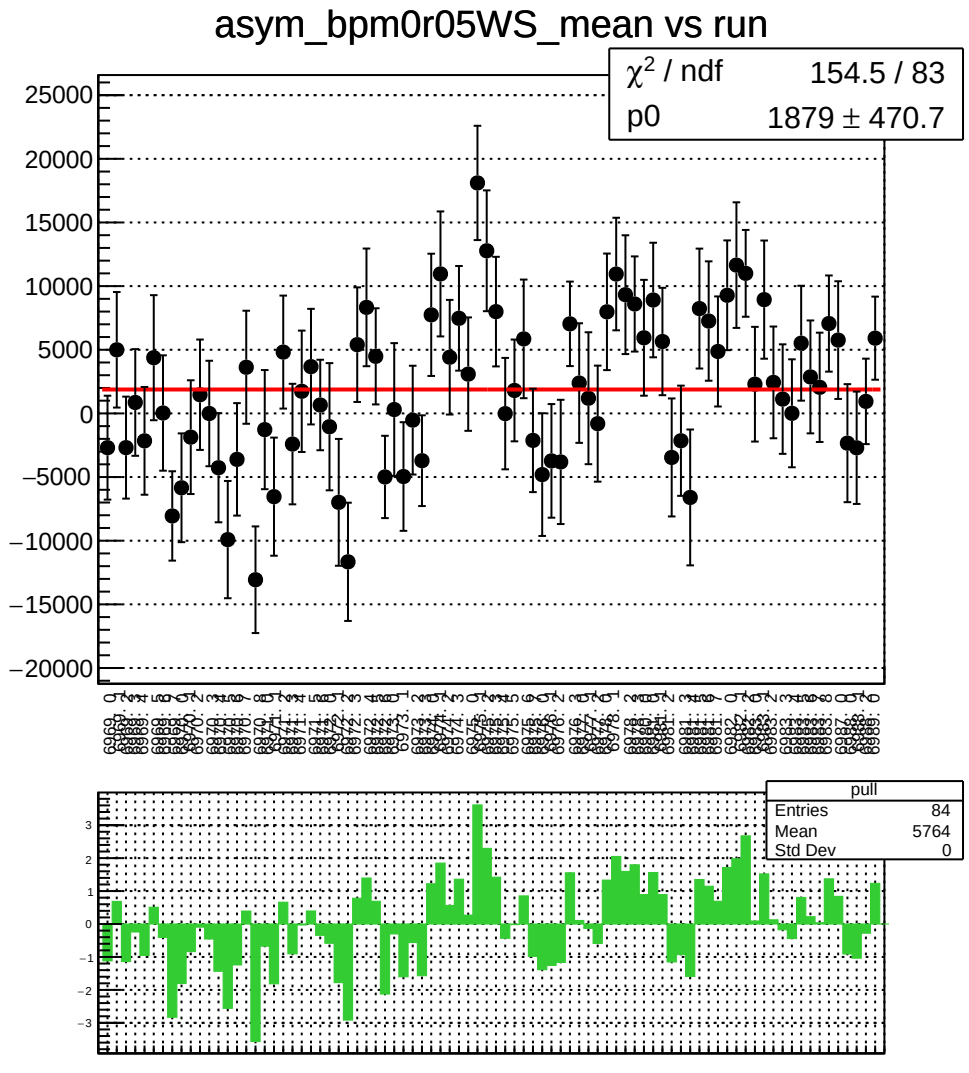

pull1D
Entries 84
Mean 0.06198
Std Dev 1.965
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

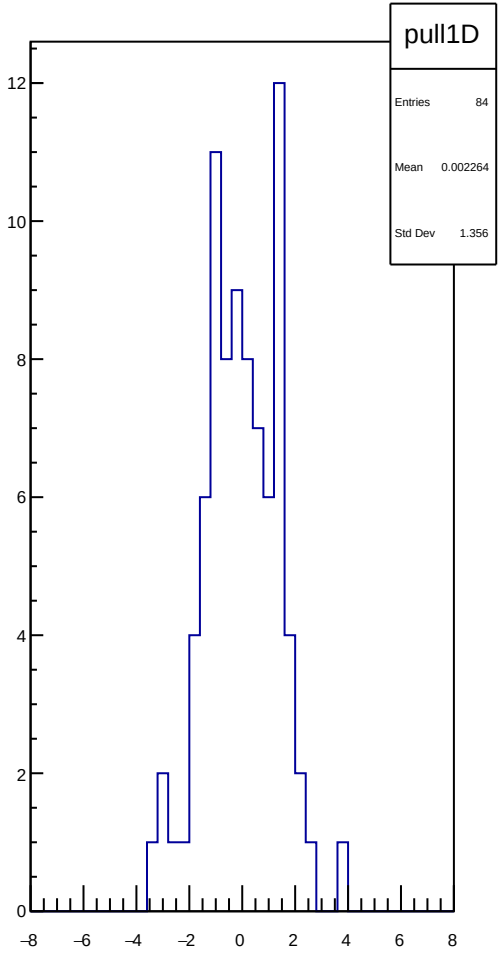

asym_bpm0l10WS_rms vs run
χ^2 / ndf 1.504e+04 / 83
p0 199.5 ± 0.1549
280
260
240
220
200
180
160

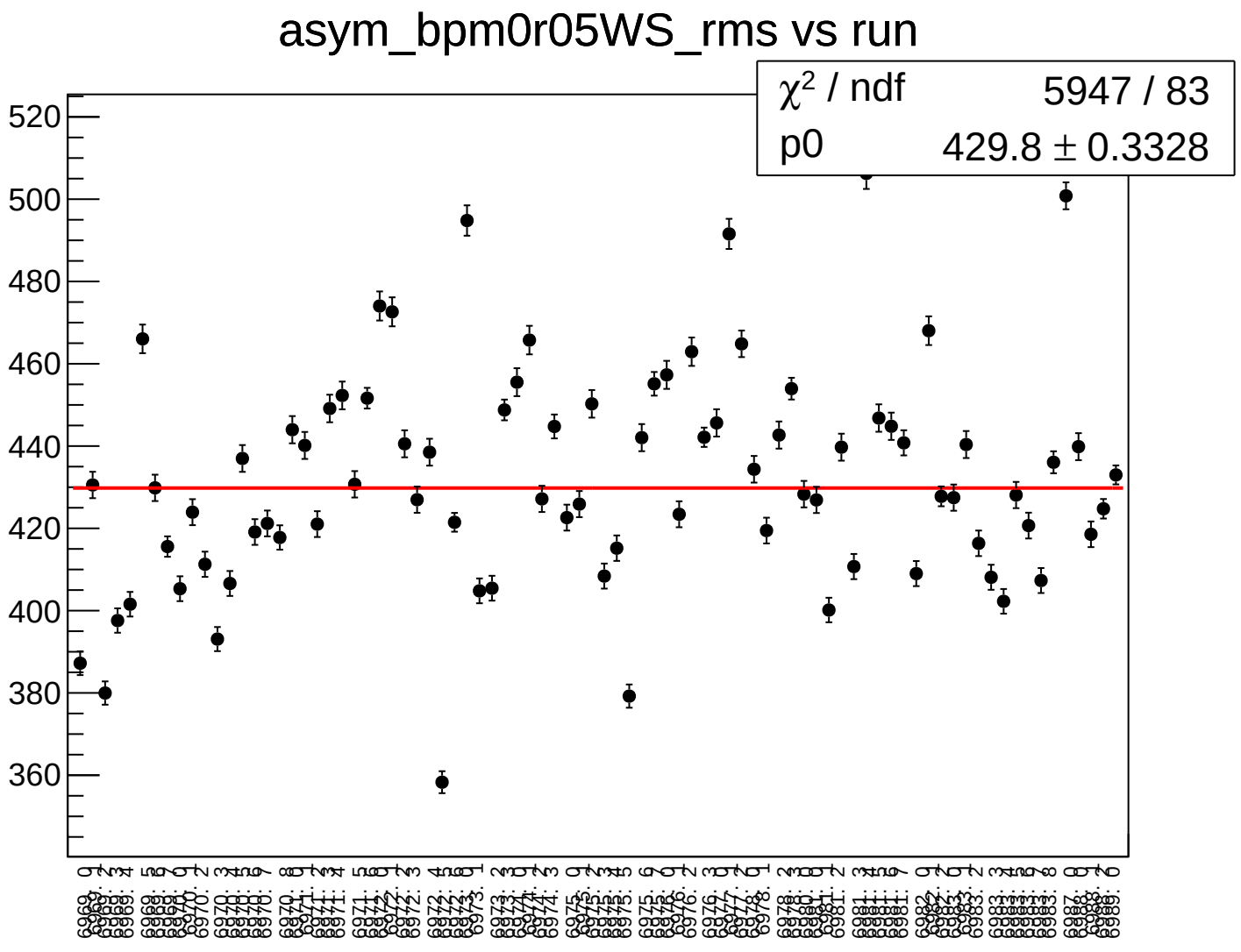

asym_bpm0r03WS_mean vs run
χ² / ndf 200 / 83
p0 1700 ± 327
pull
Entries 84
Mean 437.3
Std Dev 0

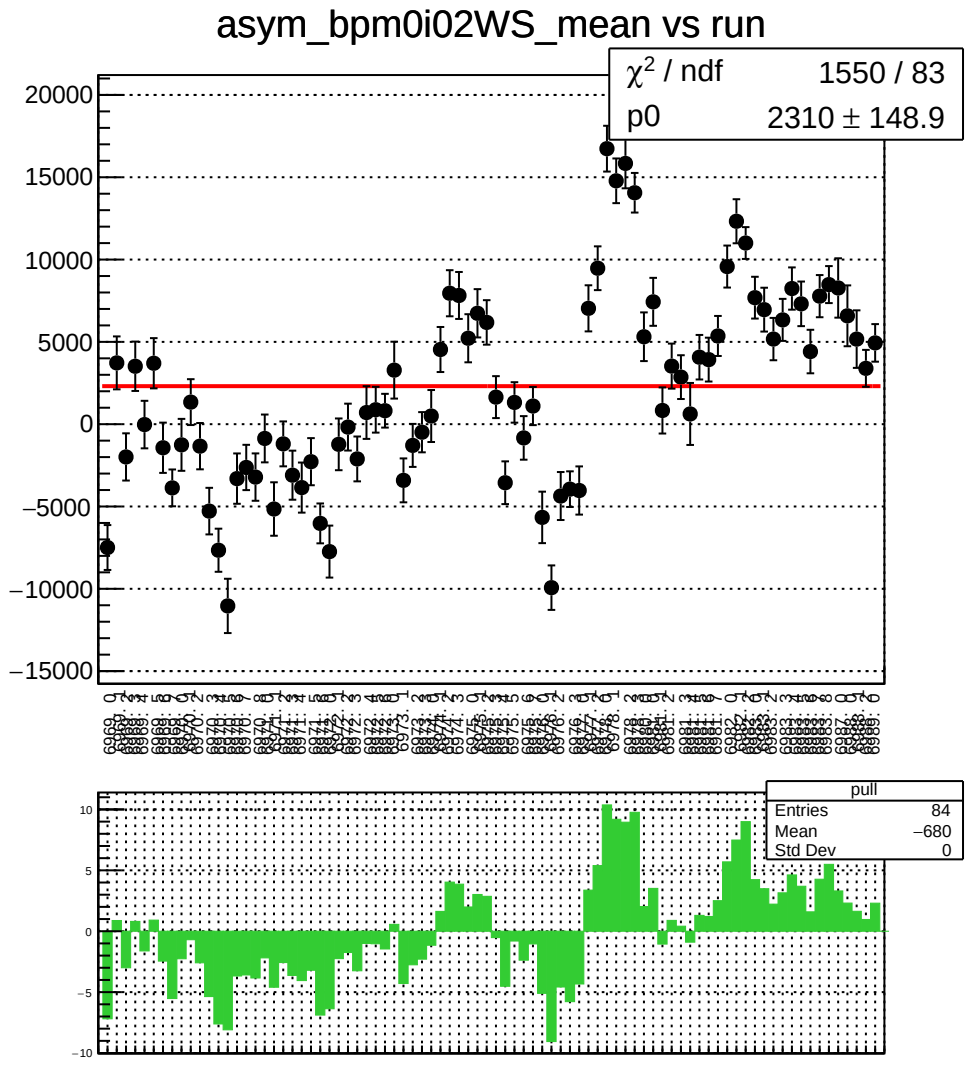

pull1D
Entries 84
Mean 0.04867
Std Dev 1.542

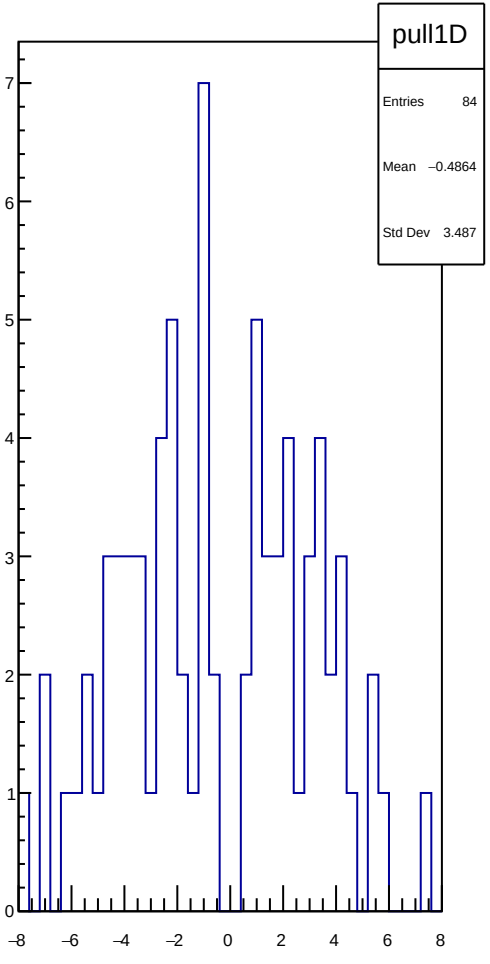

asym_bpm0r03WS_rms vs run
χ² / ndf 2.245e+04 / 83
p0 297.1 ± 0.2312
400
380
360
340
320
300
280
260
240
220

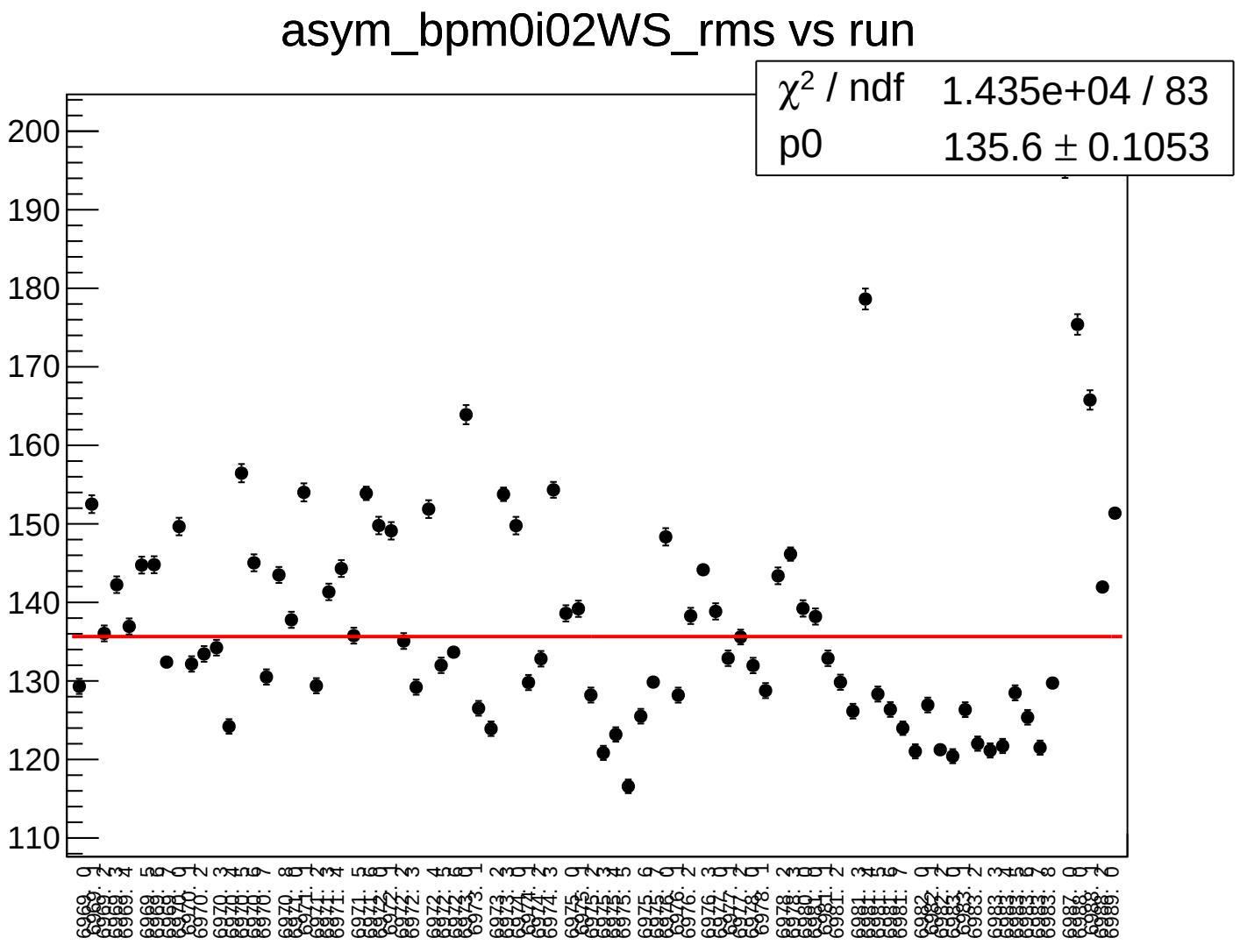

asym_bpm0r05WS_mean vs run
χ² / ndf 154.5 / 83
p0 1879 ± 470.7
pull
Entries 84
Mean 5764
Std Dev 0

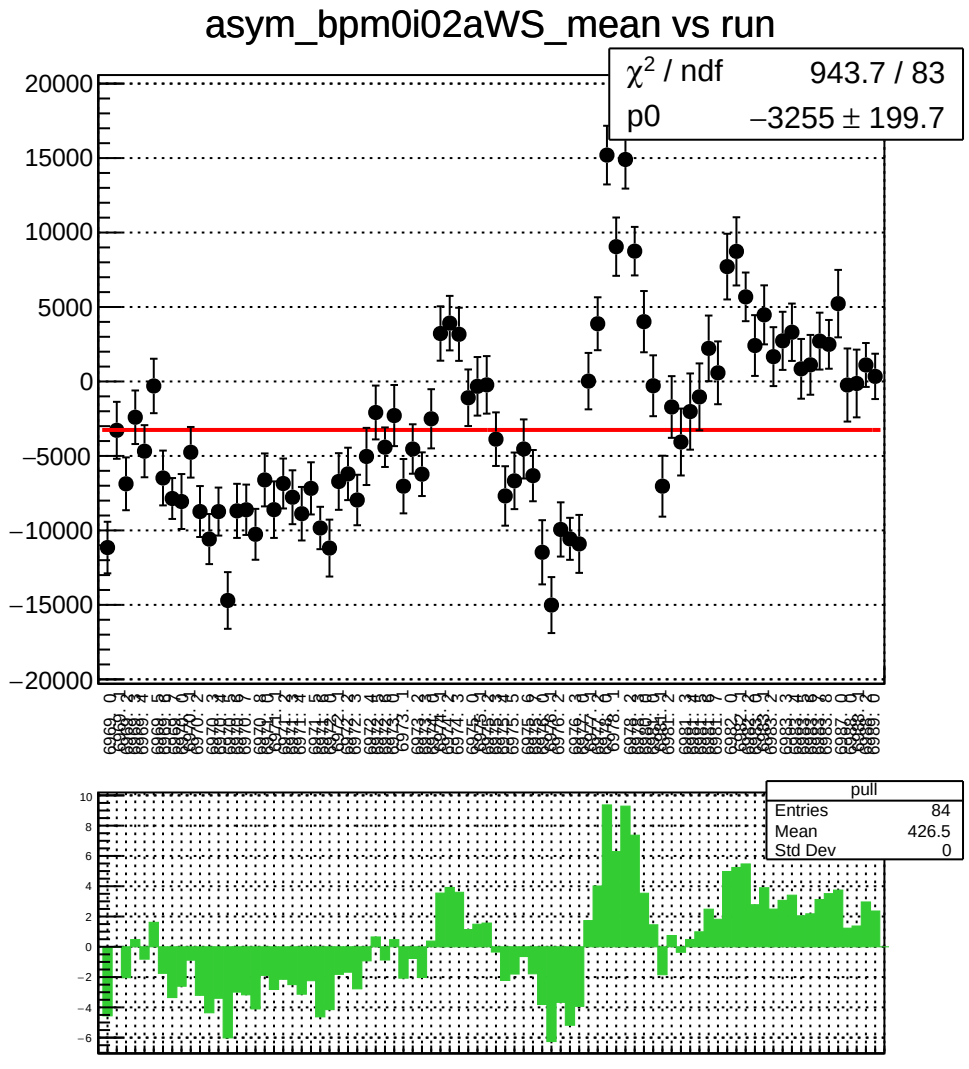

pull1D
Entries 84
Mean 0.002264
Std Dev 1.356

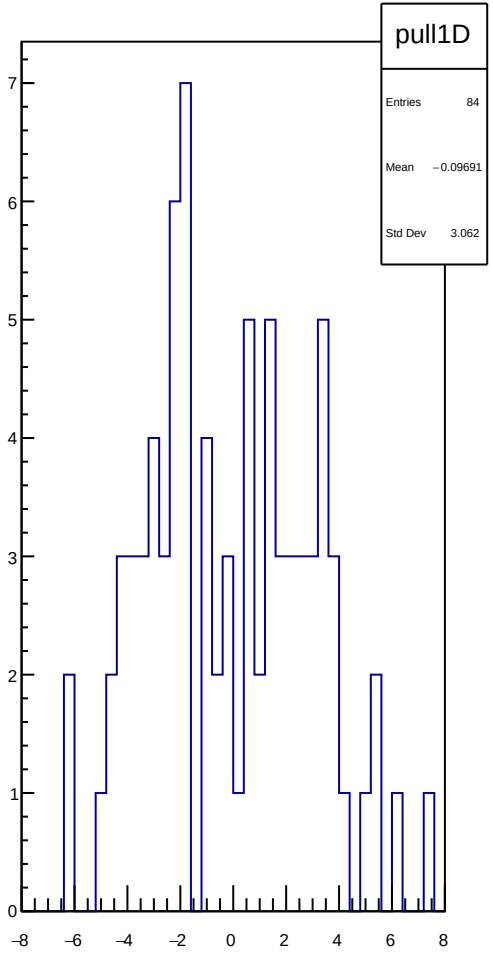

asym_bpm0r05WS_rms vs run
χ² / ndf 5947 / 83
p0 429.8 ± 0.3328
520
500
480
460
440
420
400
380
360

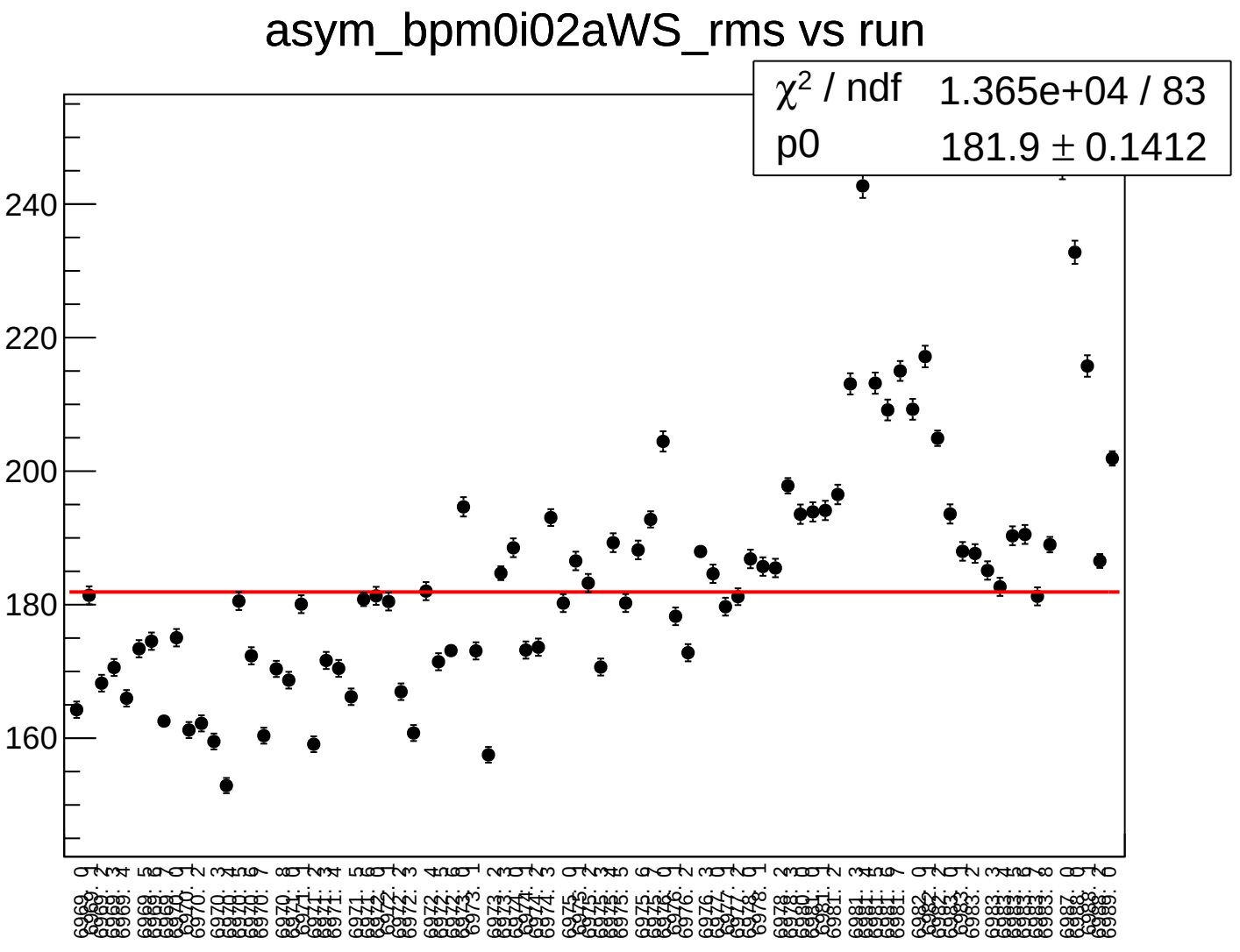

asym_bpm0i02WS_mean vs run
χ² / ndf 1550 / 83
p0 2310 ± 148.9
pull
Entries 84
Mean −680
Std Dev 0

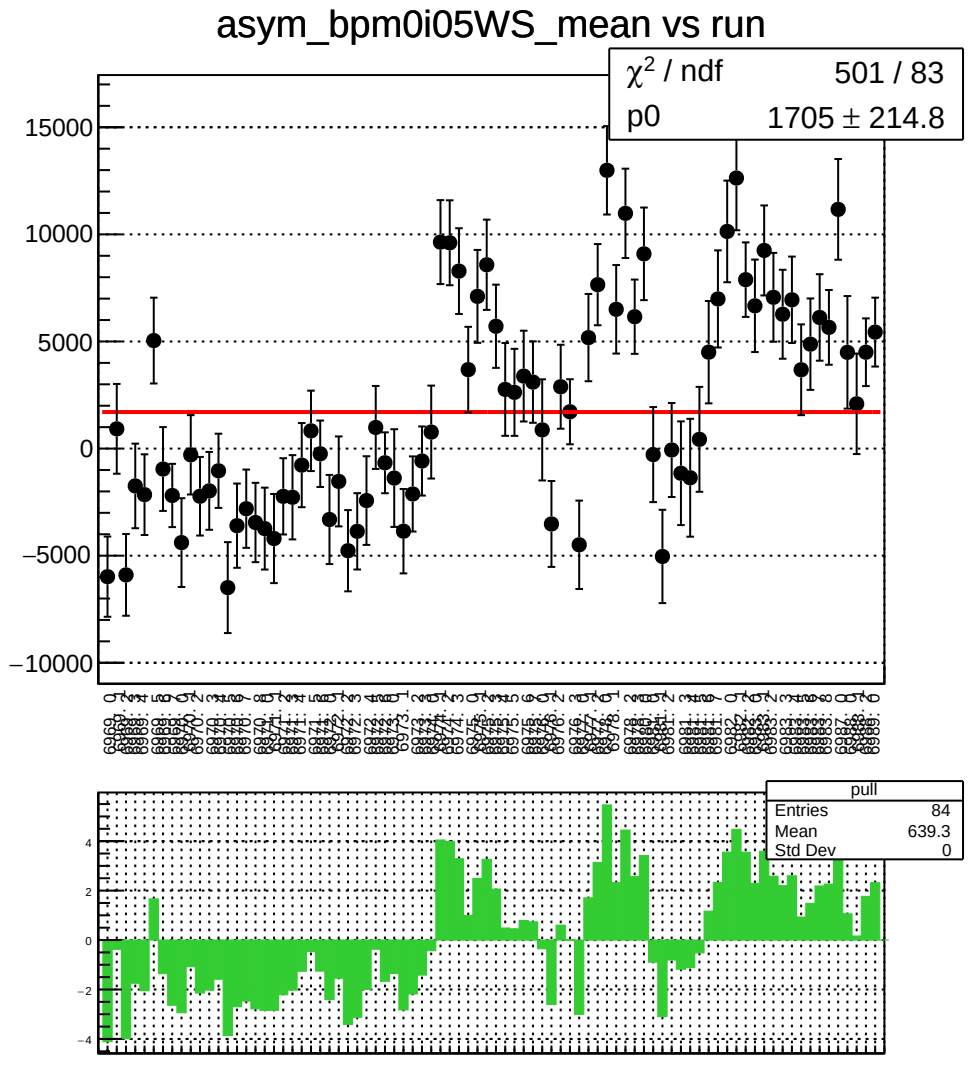

pull1D
Entries 84
Mean −0.4864
Std Dev 3.487

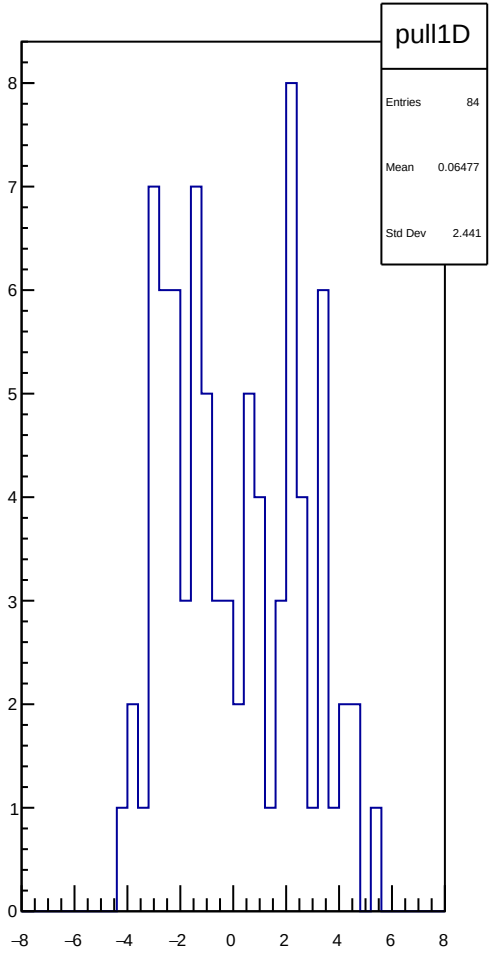

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.435e+04 / 83
p0 135.6 ± 0.1053
200
190
180
170
160
150
140
130
120
110

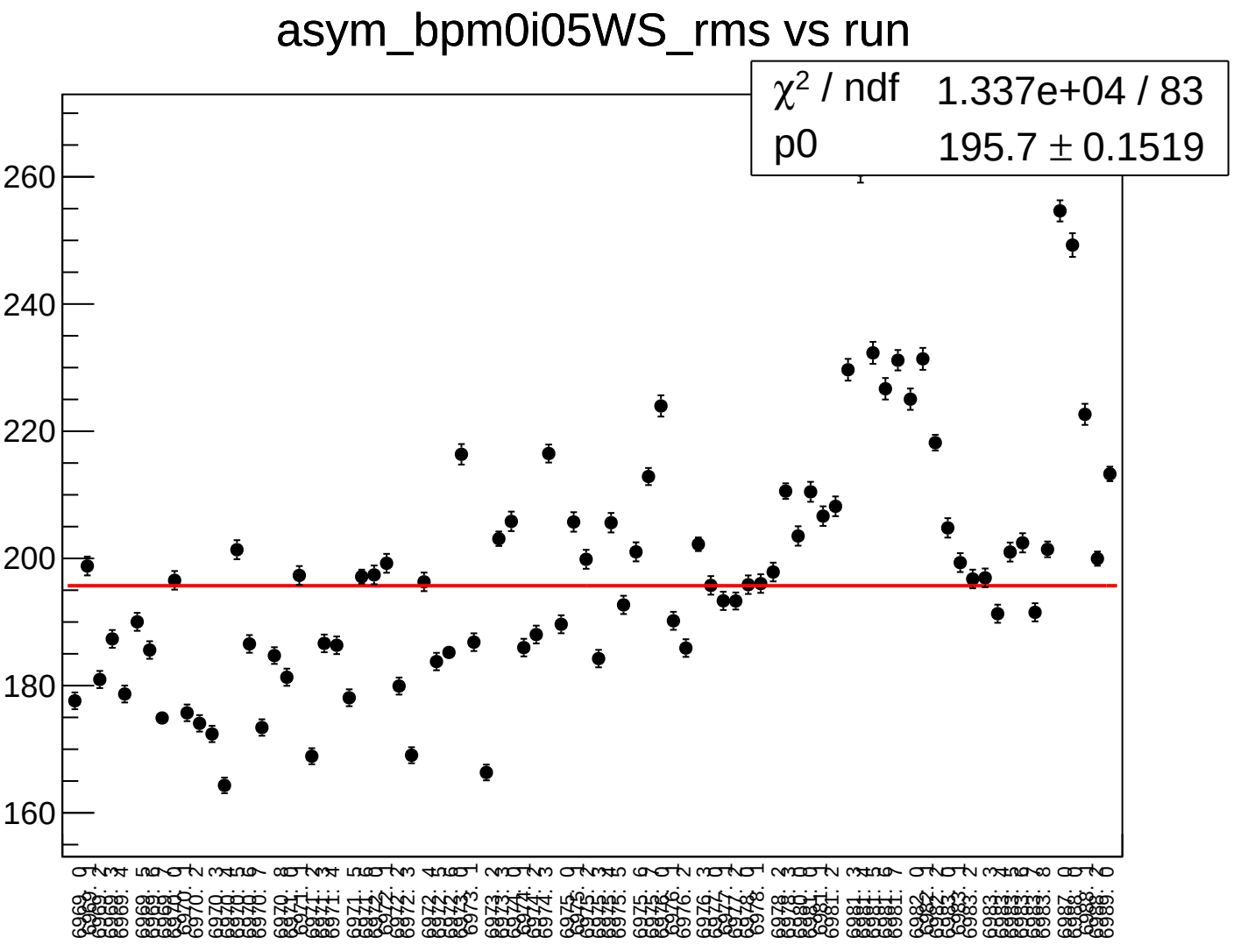

asym_bpm0i02aWS_mean vs run
χ² / ndf 943.7 / 83
p0 −3255 ± 199.7
pull
Entries 84
Mean 426.5
Std Dev 0

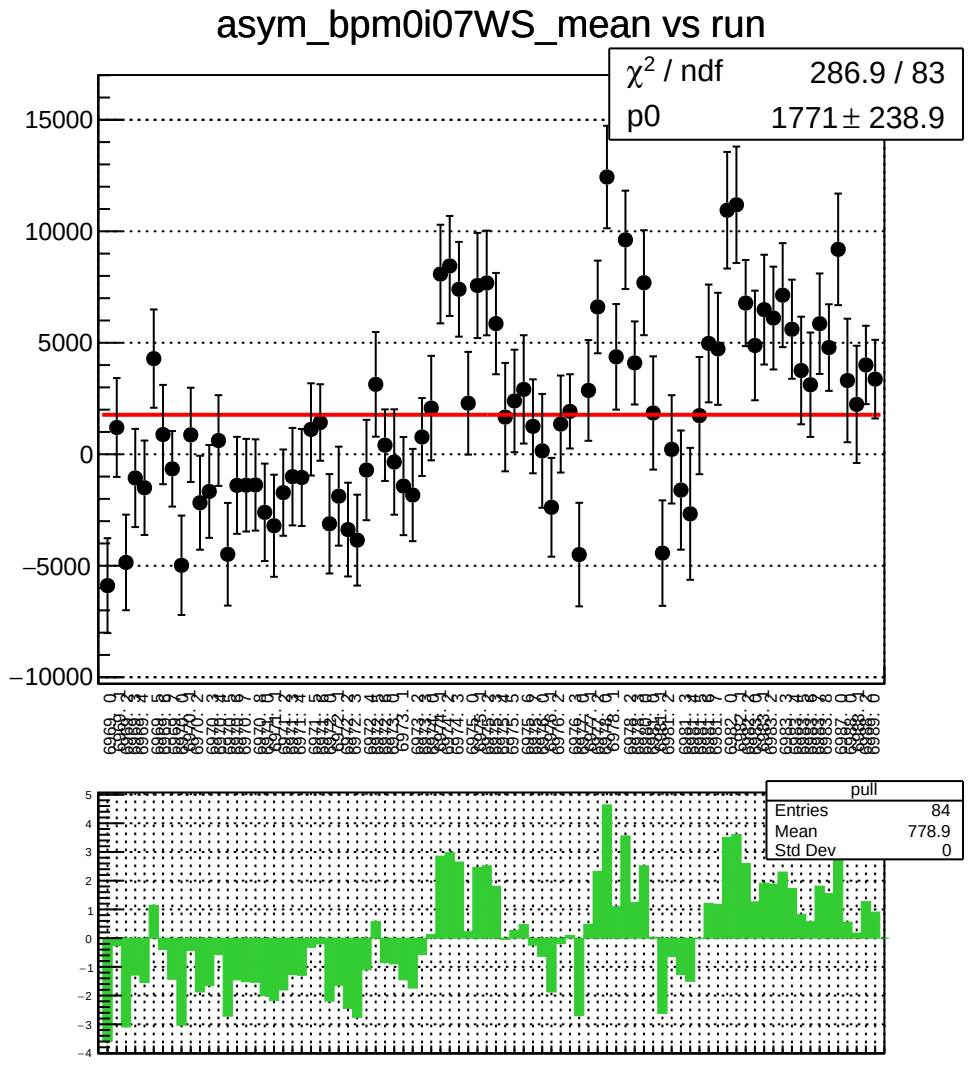

pull1D
Entries 84
Mean −0.09691
Std Dev 3.062

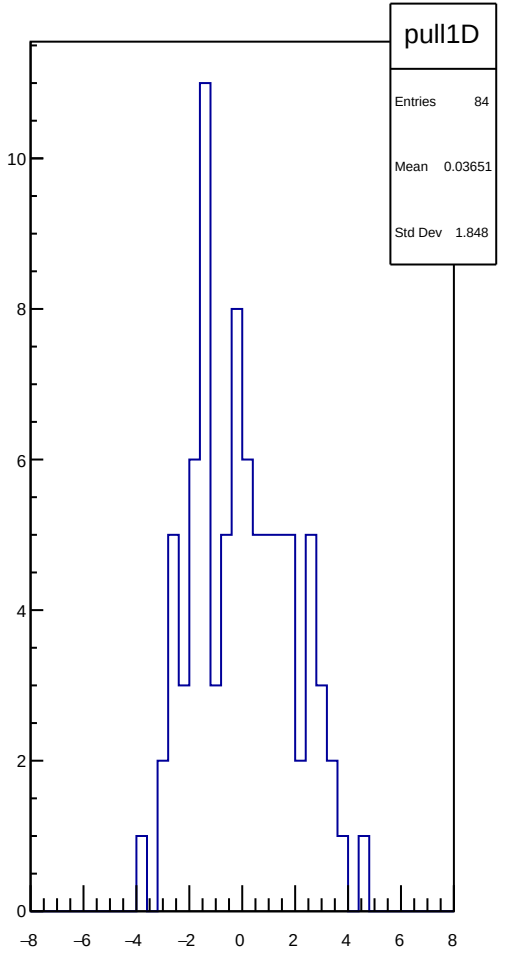

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.365e+04 / 83
p0 181.9 ± 0.1412
240
220
200
180
160

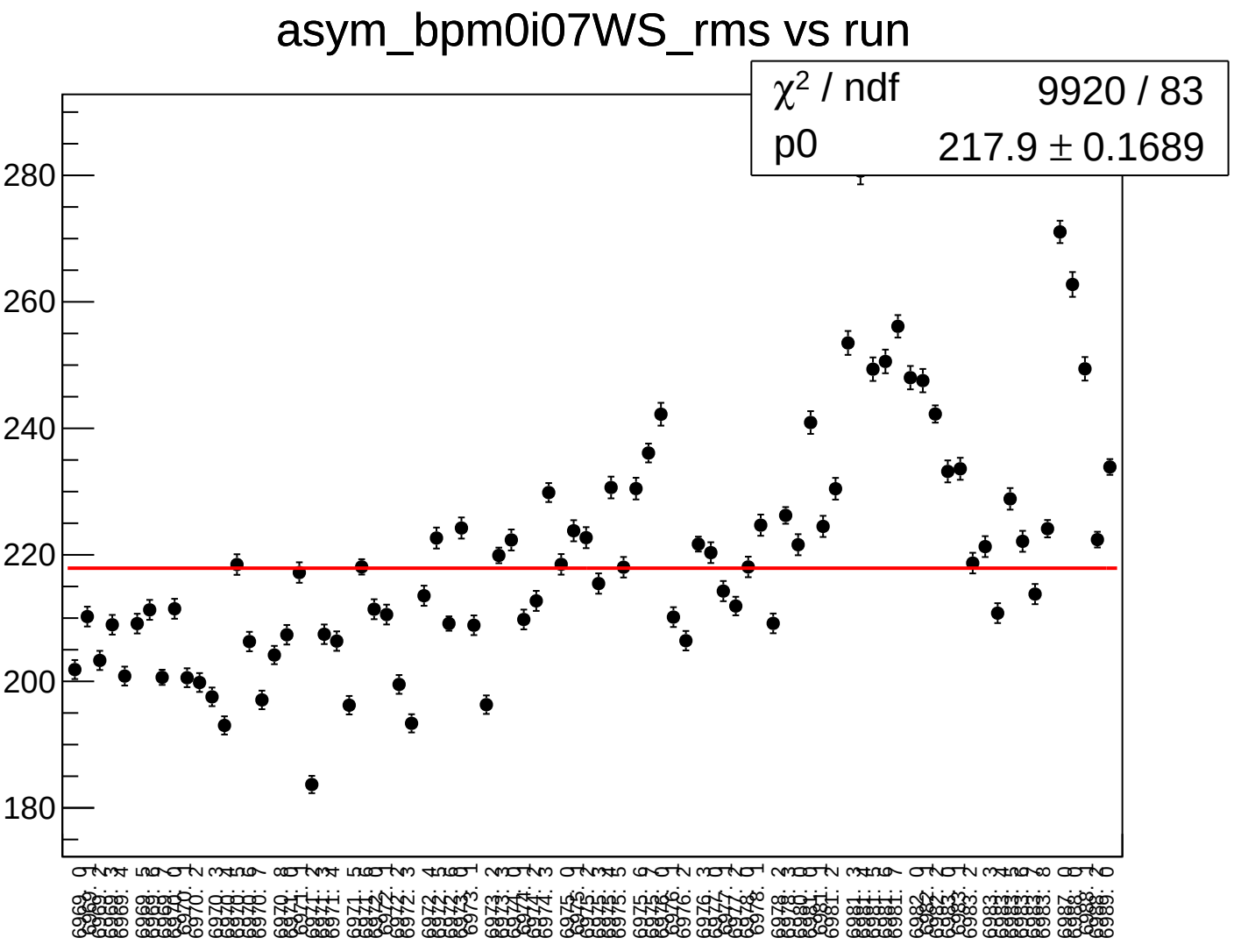

asym_bpm0i05WS_mean vs run
χ² / ndf 501 / 83
p0 1705 ± 214.8
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 639.3
Std Dev 0
4
2
0
−2
−4

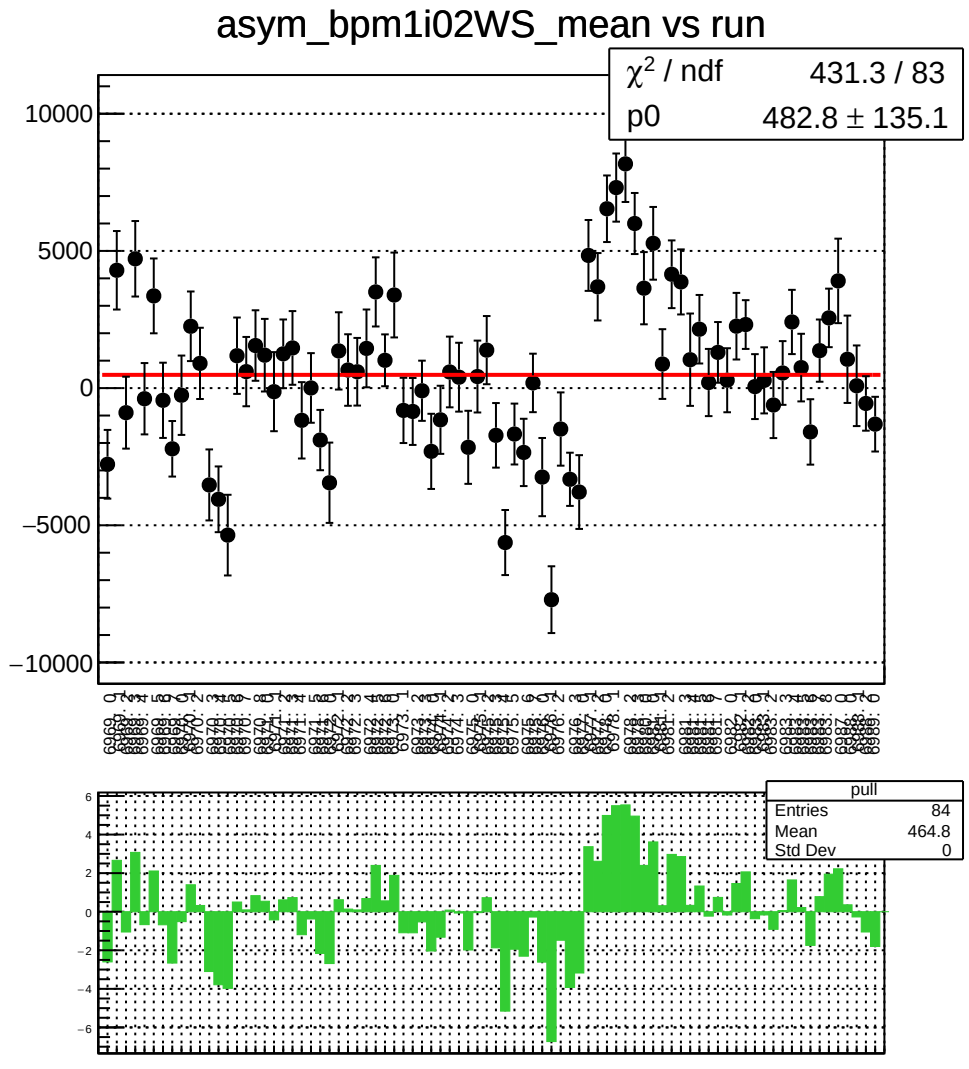

pull1D
Entries 84
Mean 0.06477
Std Dev 2.441
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

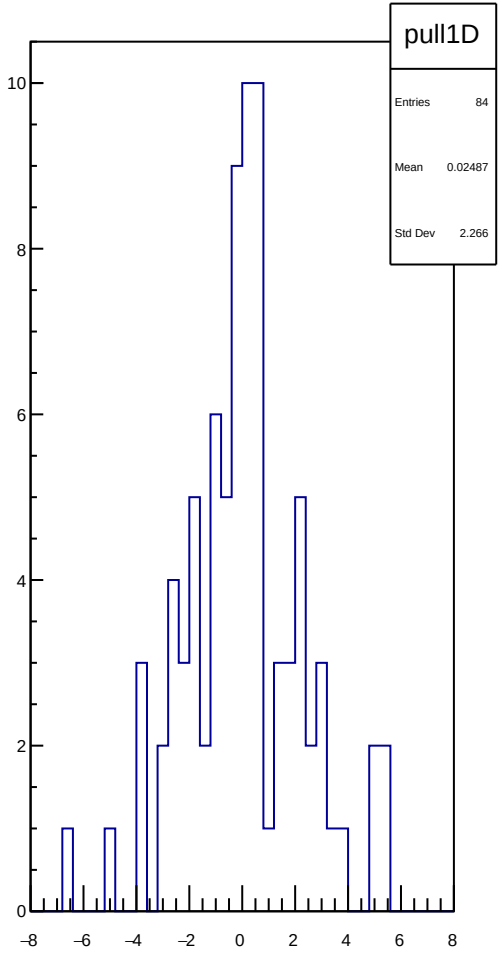

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1.337e+04 / 83
p0 195.7 ± 0.1519
260
240
220
200
180
160

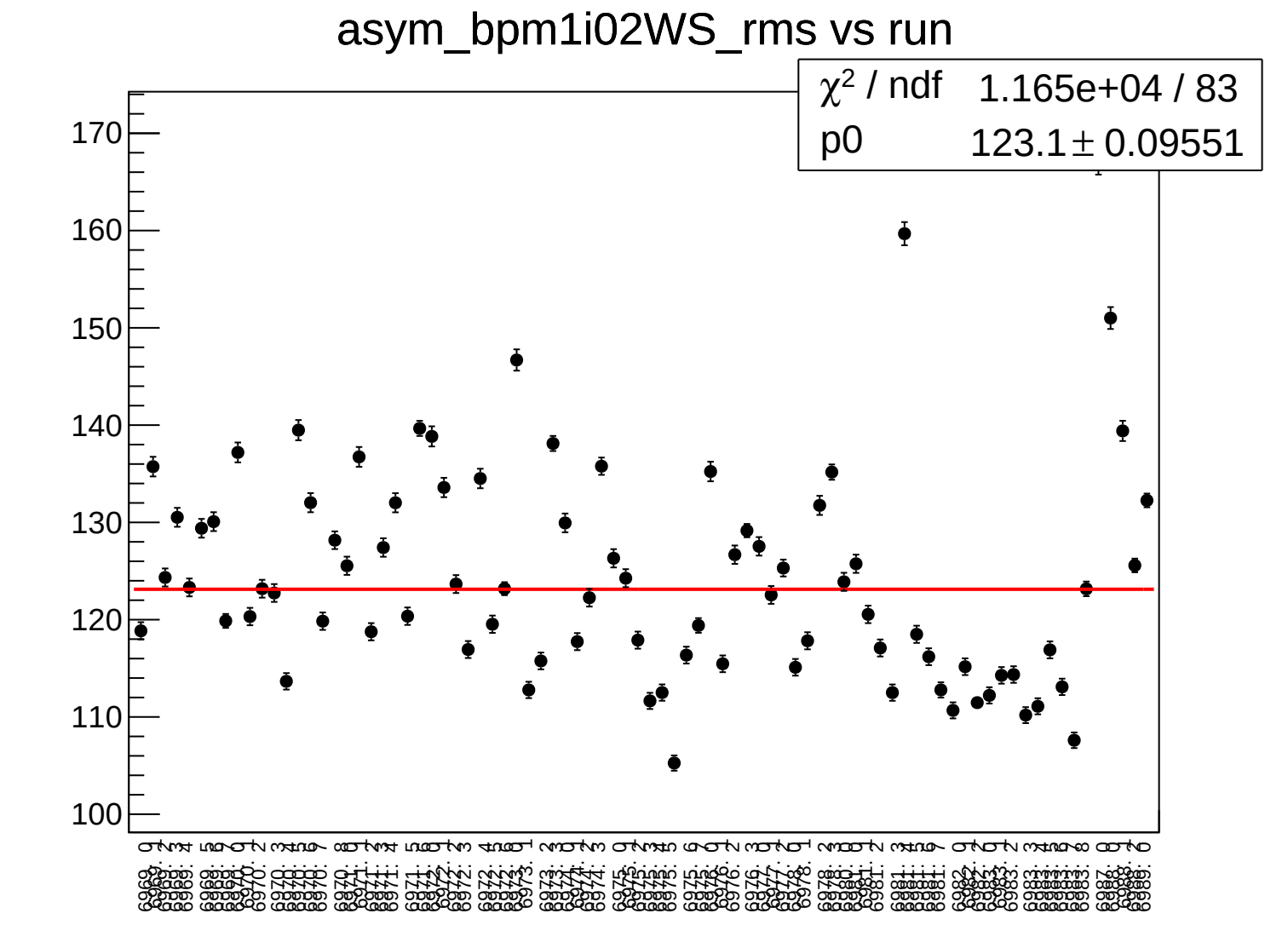

asym_bpm0i07WS_mean vs run
χ² / ndf 286.9 / 83
p0 1771 ± 238.9
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 778.9
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

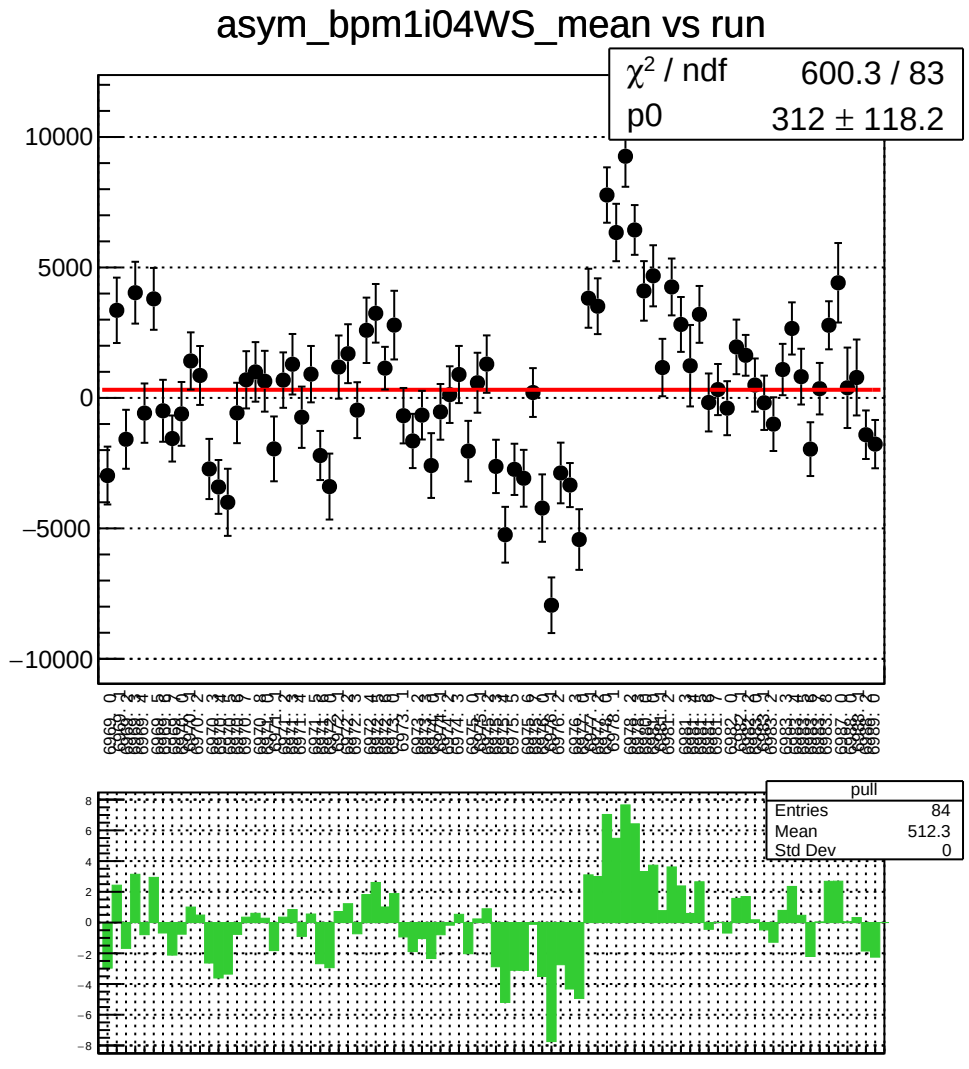

pull1D
Entries 84
Mean 0.03651
Std Dev 1.848
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

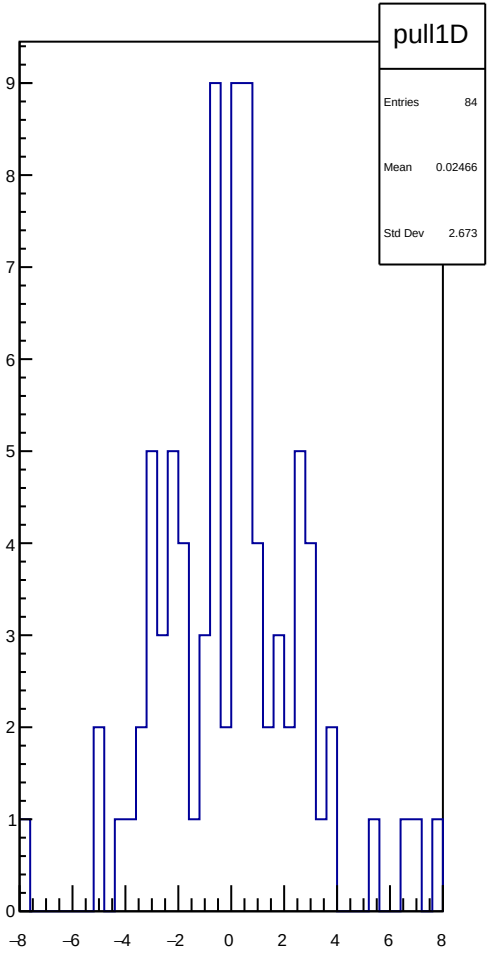

asym_bpm0i07WS_rms vs run
χ^2 / ndf 9920 / 83
p0 217.9 ± 0.1689
280
260
240
220
200
180

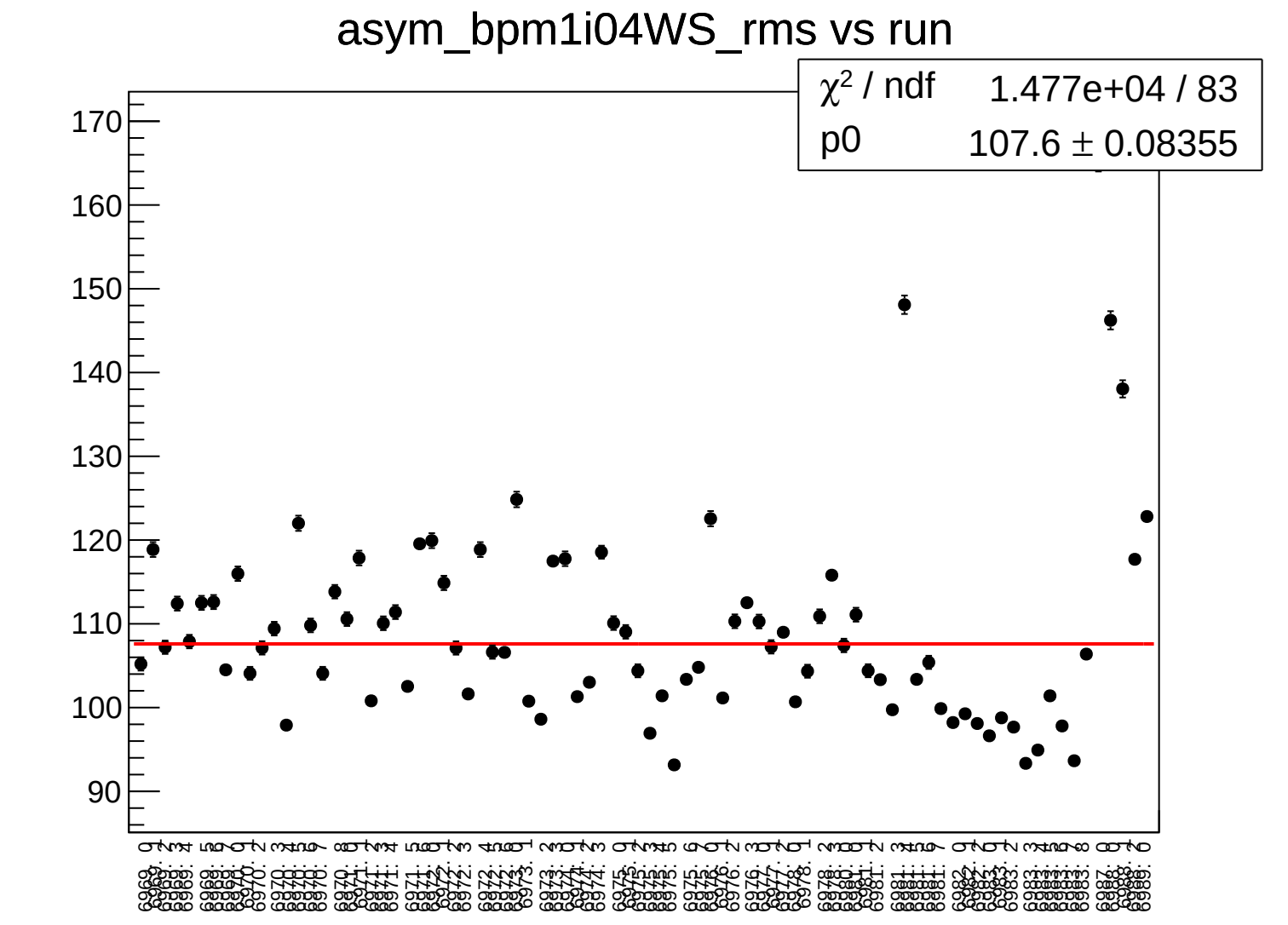

asym_bpm1i02WS_mean vs run
χ² / ndf 431.3 / 83
p0 482.8 ± 135.1
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 464.8
Std Dev 0
6
4
2
0
−2
−4
−6

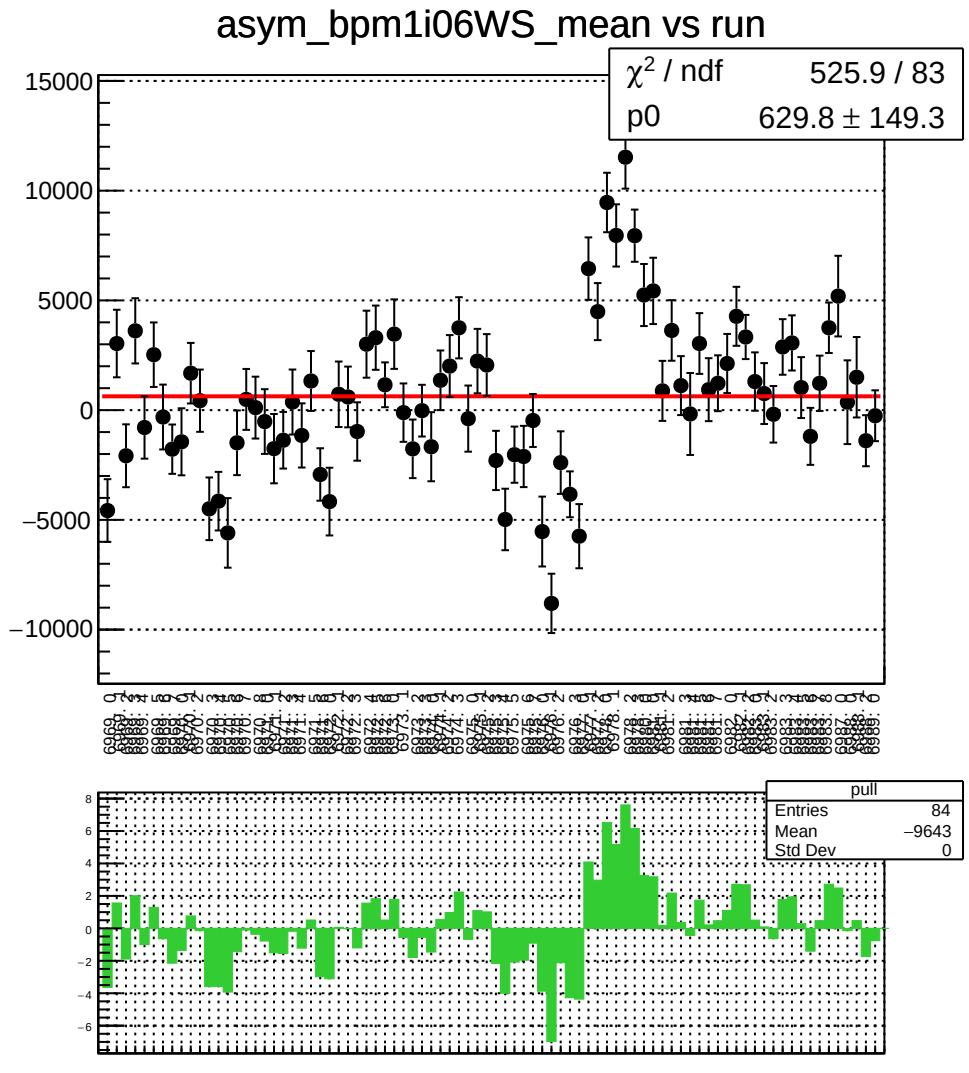

pull1D
Entries 84
Mean 0.02487
Std Dev 2.266
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

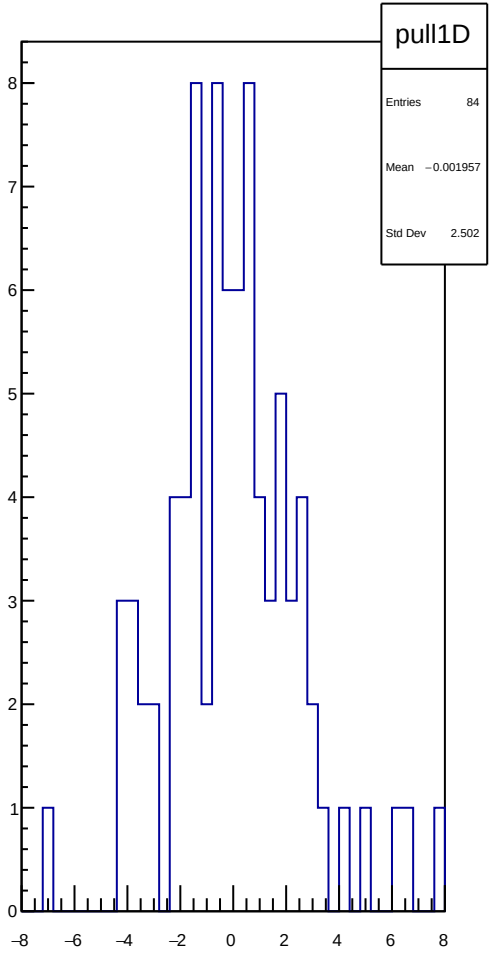

asym_bpm1i02WS_rms vs run
χ^2 / ndf 1.165e+04 / 83
p0 123.1 ± 0.09551
170
160
150
140
130
120
110
100

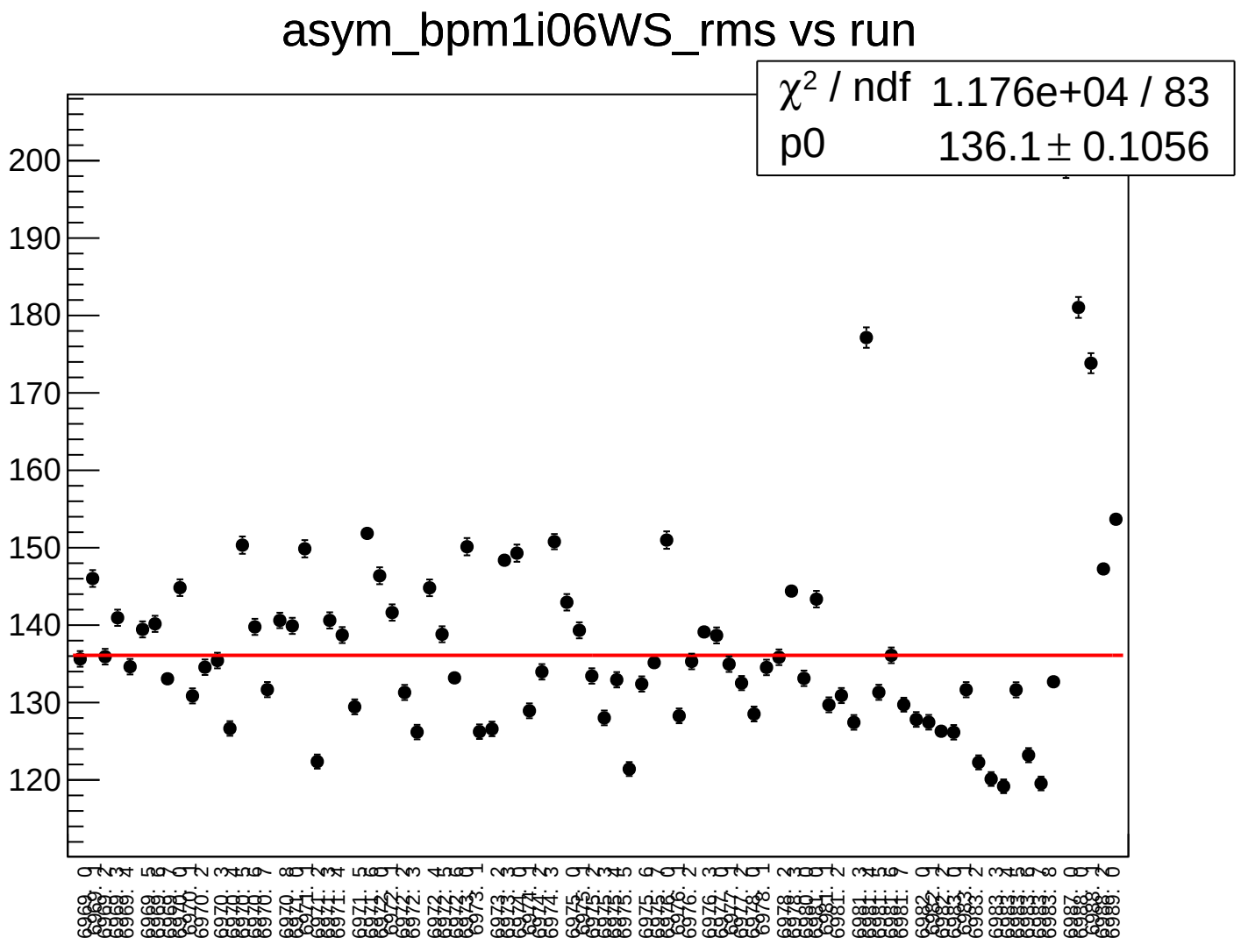

asym_bpm1i04WS_mean vs run
χ² / ndf 600.3 / 83
p0 312 ± 118.2
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 512.3
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

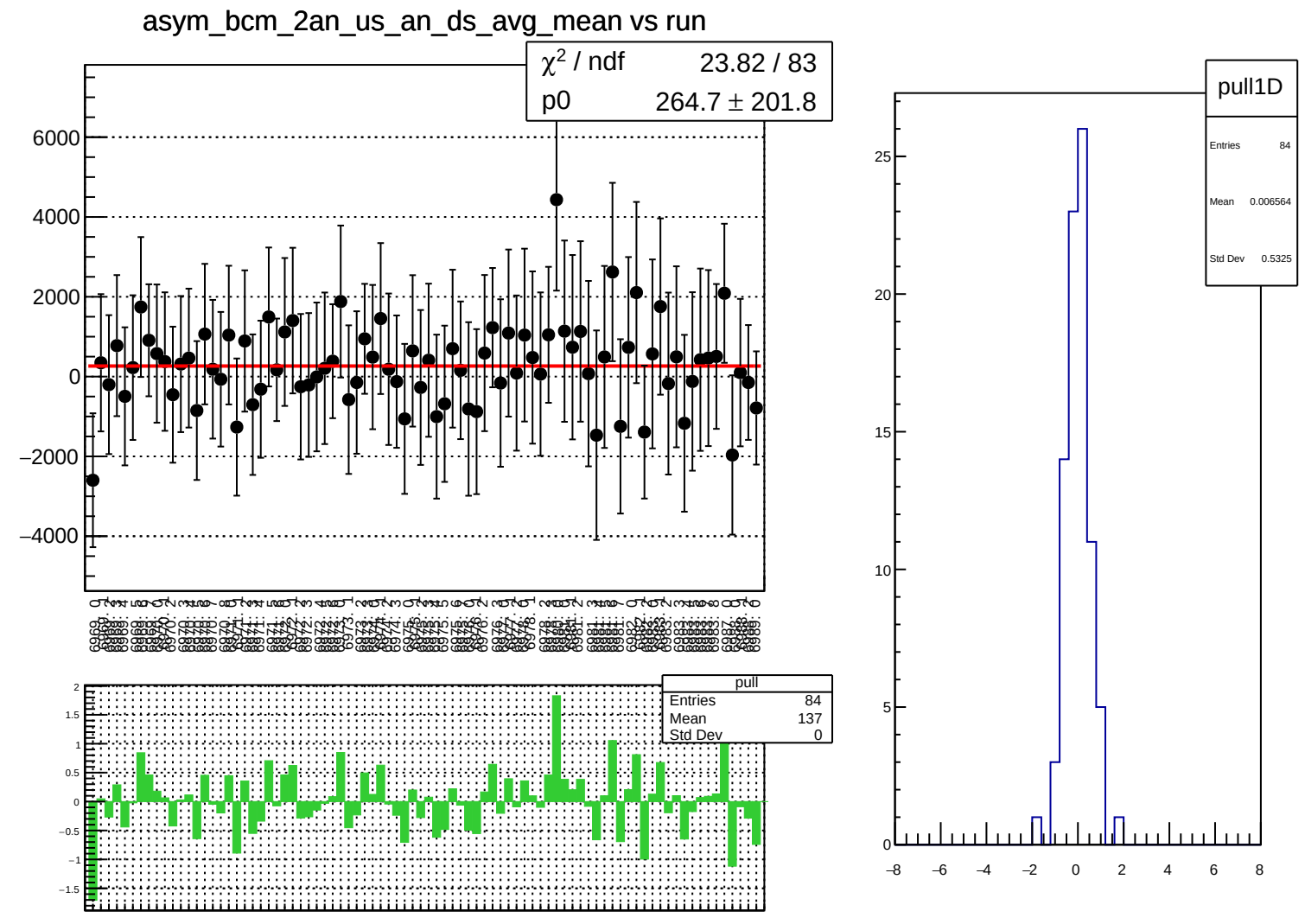

pull1D
Entries 84
Mean 0.02466
Std Dev 2.673
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

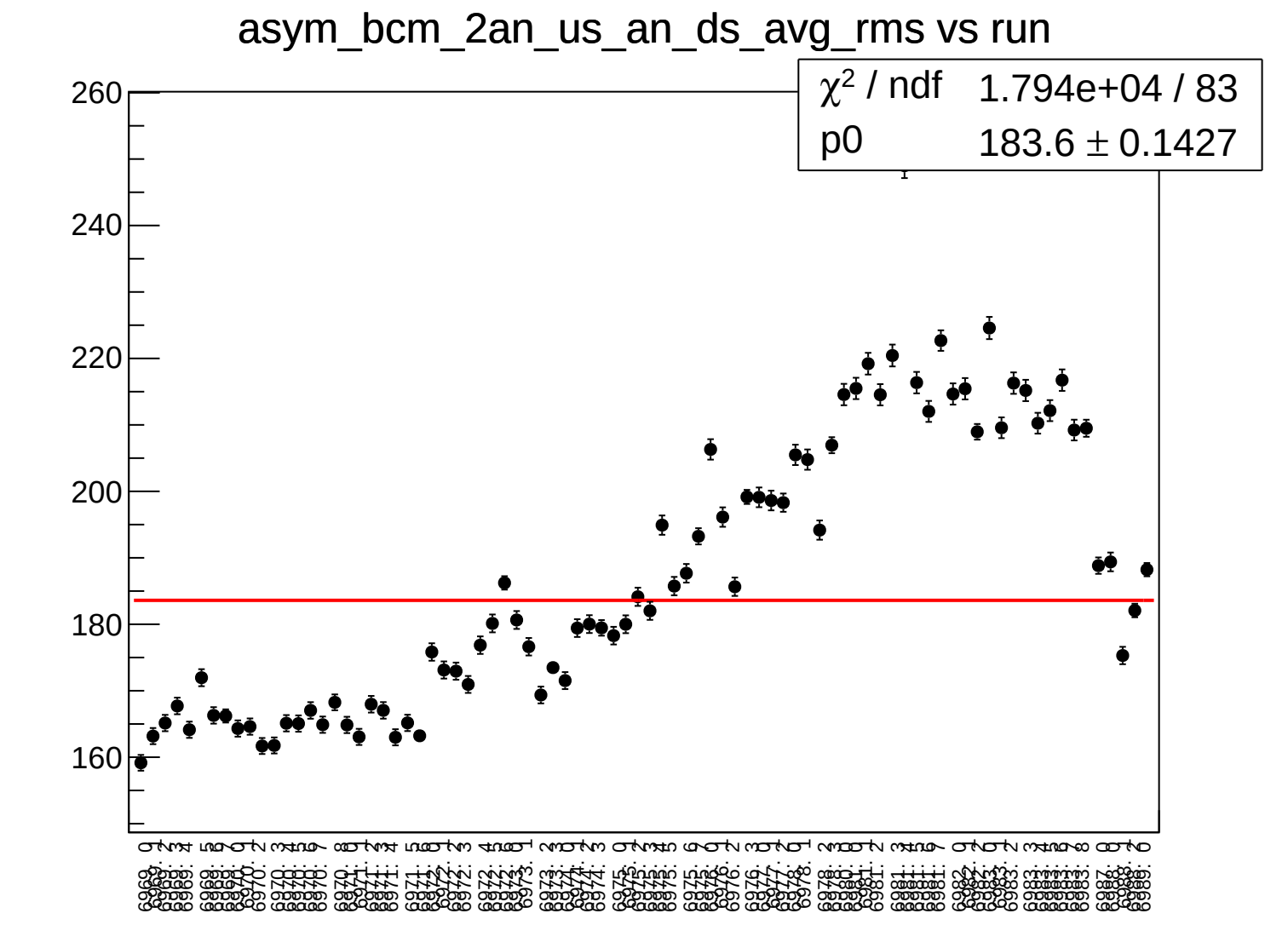

asym_bpm1i04WS_rms vs run
χ² / ndf 1.477e+04 / 83
p0 107.6 ± 0.08355
170
160
150
140
130
120
110
100
90

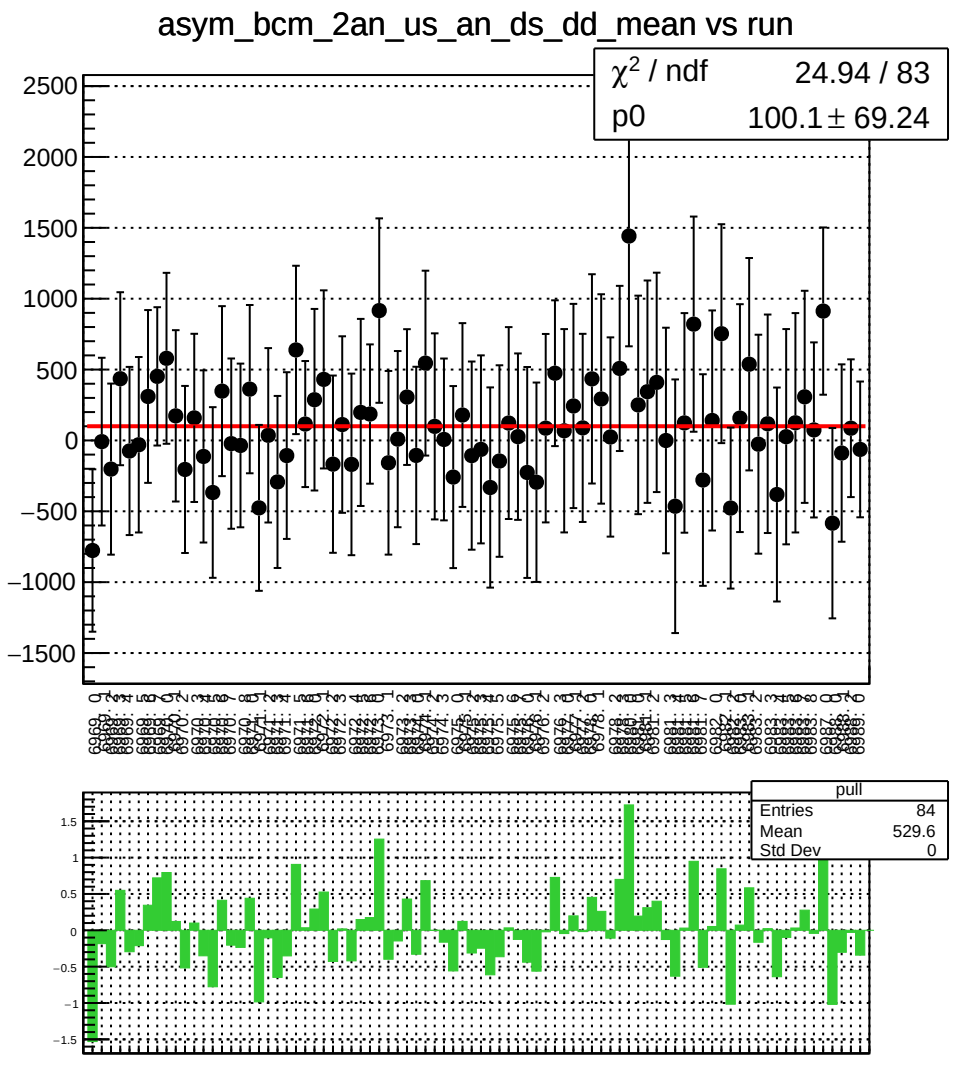

asym_bpm1i06WS_mean vs run
χ² / ndf 525.9 / 83
p0 629.8 ± 149.3
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −9643
Std Dev 0
8
6
4
2
0
−2
−4
−6

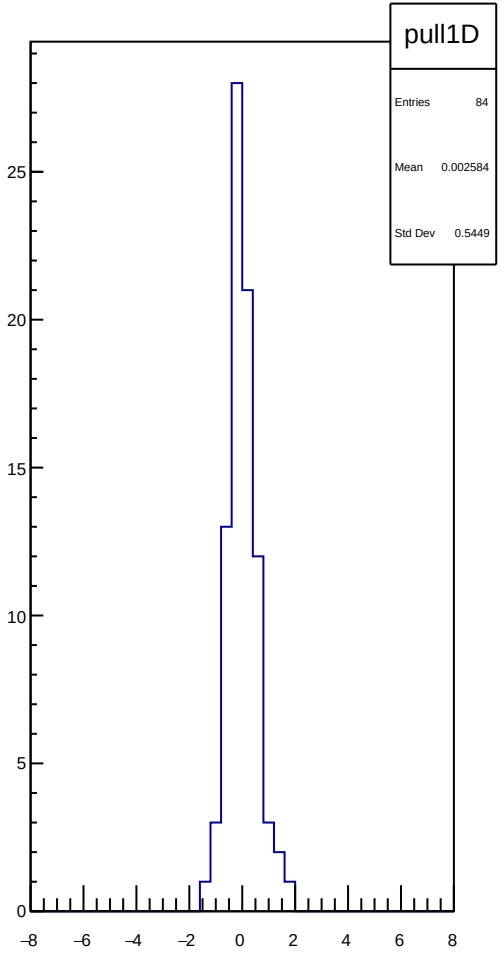

pull1D
Entries 84
Mean −0.001957
Std Dev 2.502
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

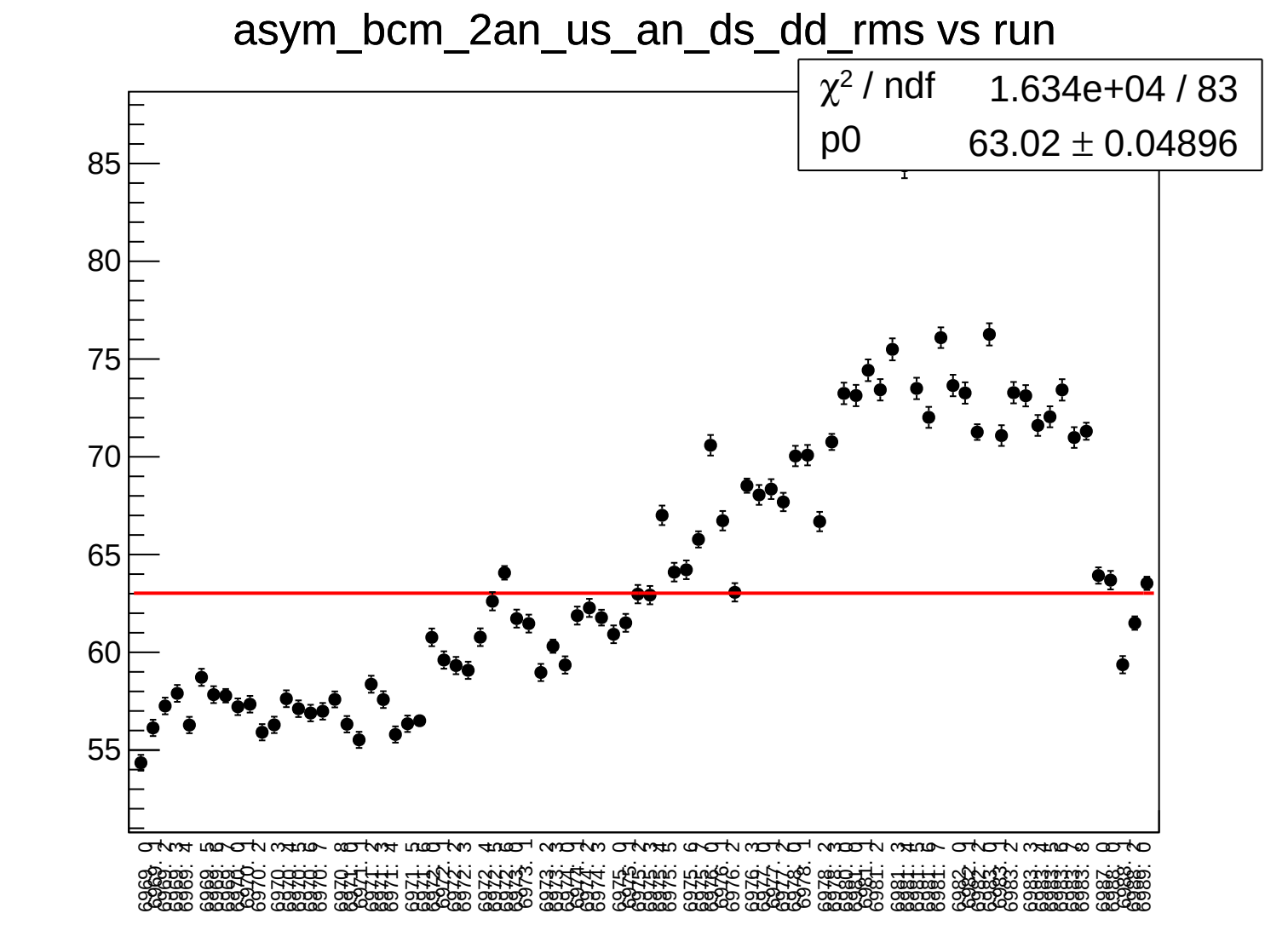

asym_bpm1i06WS_rms vs run
χ² / ndf 1.176e+04 / 83
p0 136.1 ± 0.1056
200
190
180
170
160
150
140
130
120

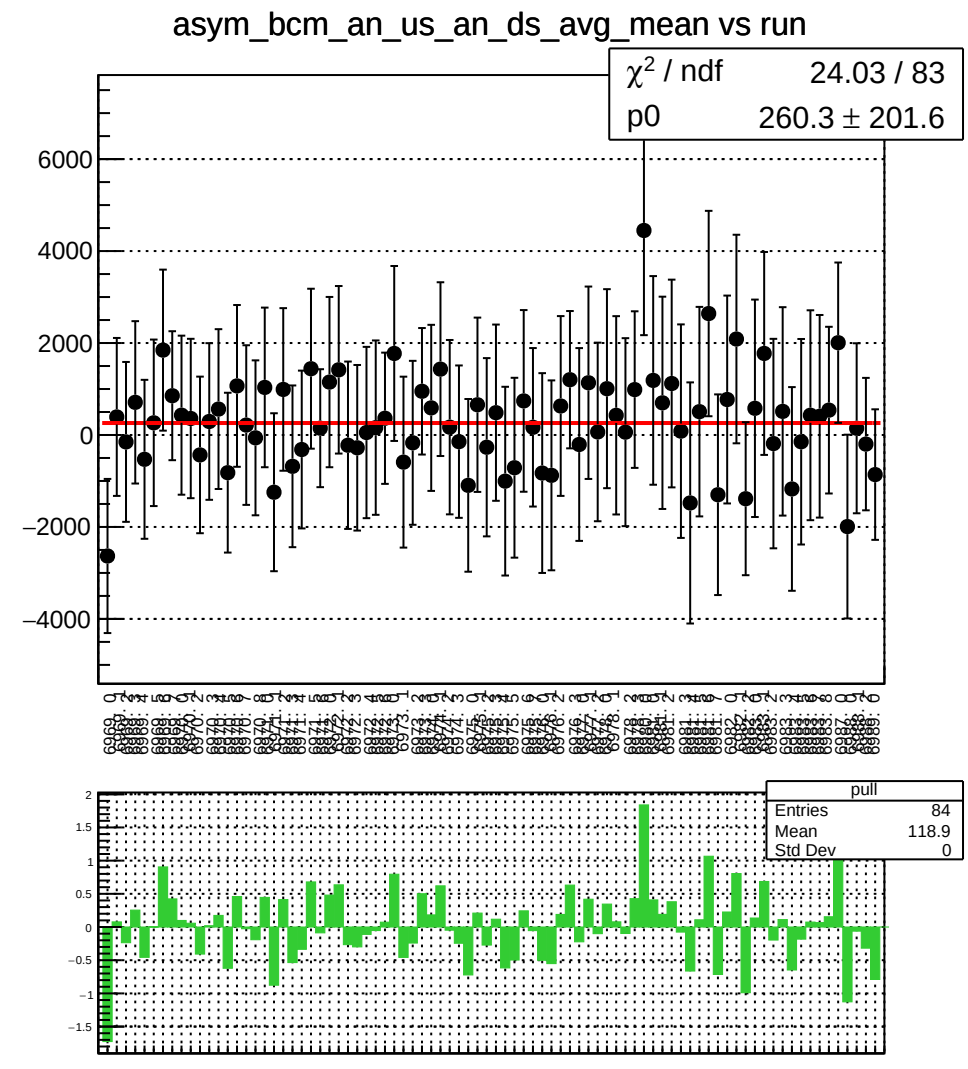

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 23.82 / 83
p0 264.7 ± 201.8
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 137
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.006564
Std Dev 0.5325
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

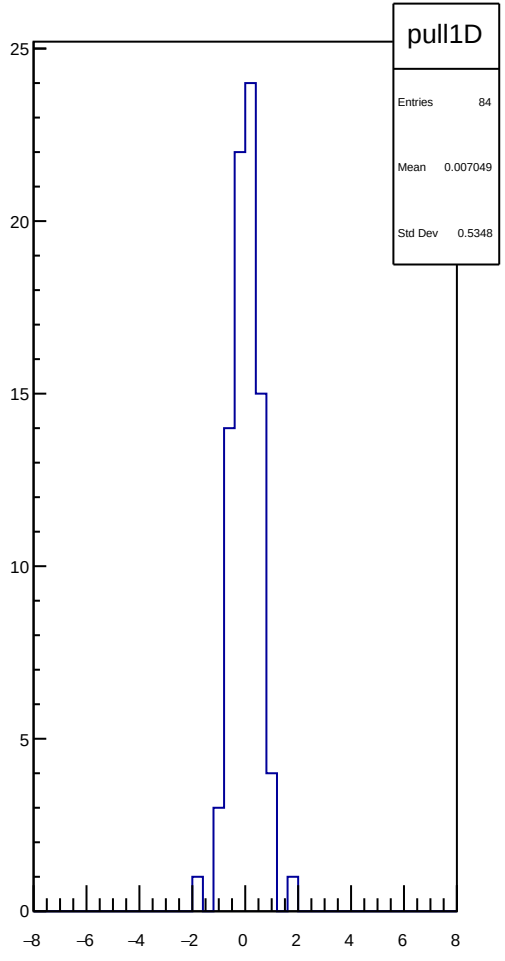

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1.794e+04 / 83
p0 183.6 ± 0.1427
260
240
220
200
180
160

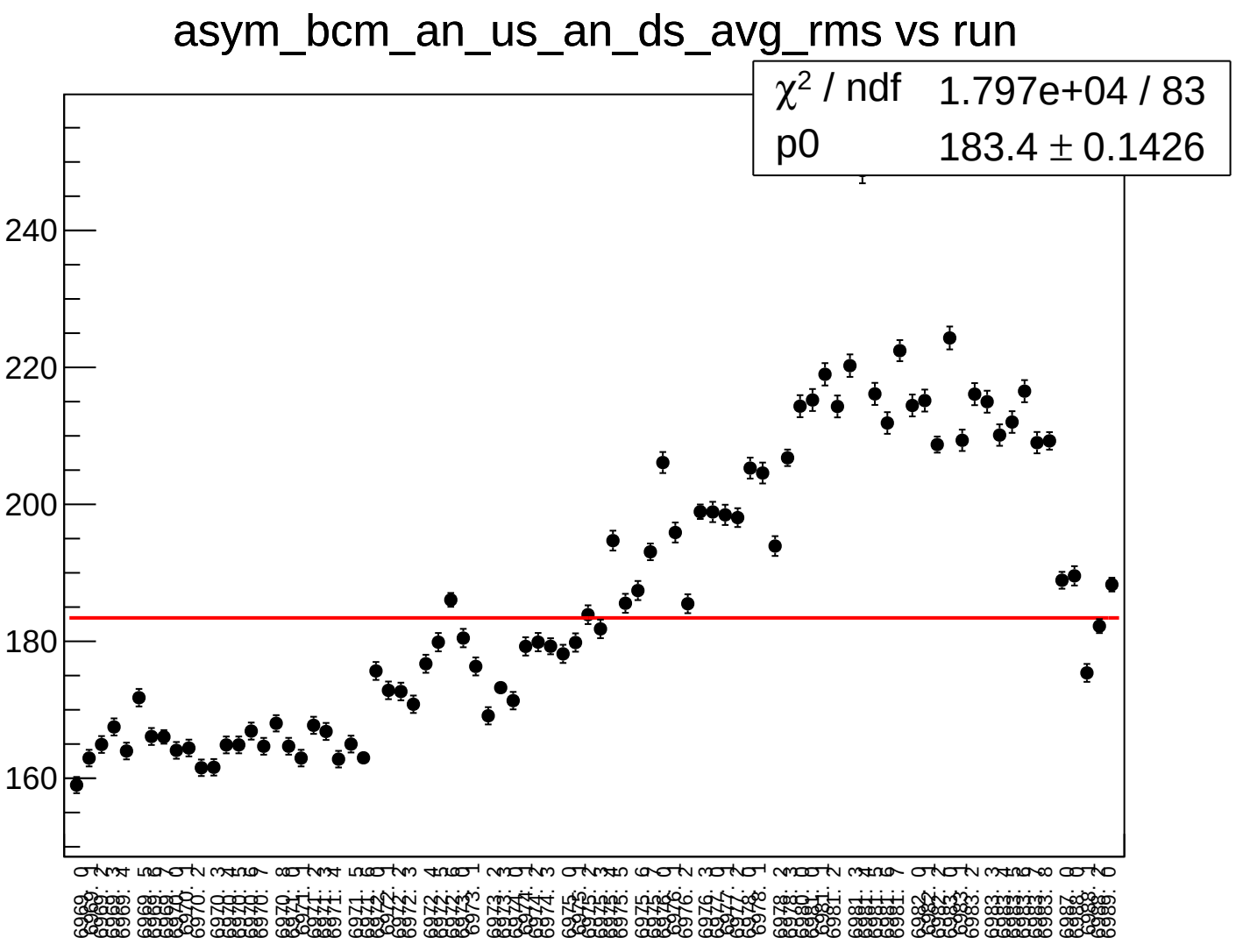

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 24.94 / 83
p0 100.1 ± 69.24
pull
Entries 84
Mean 529.6
Std Dev 0

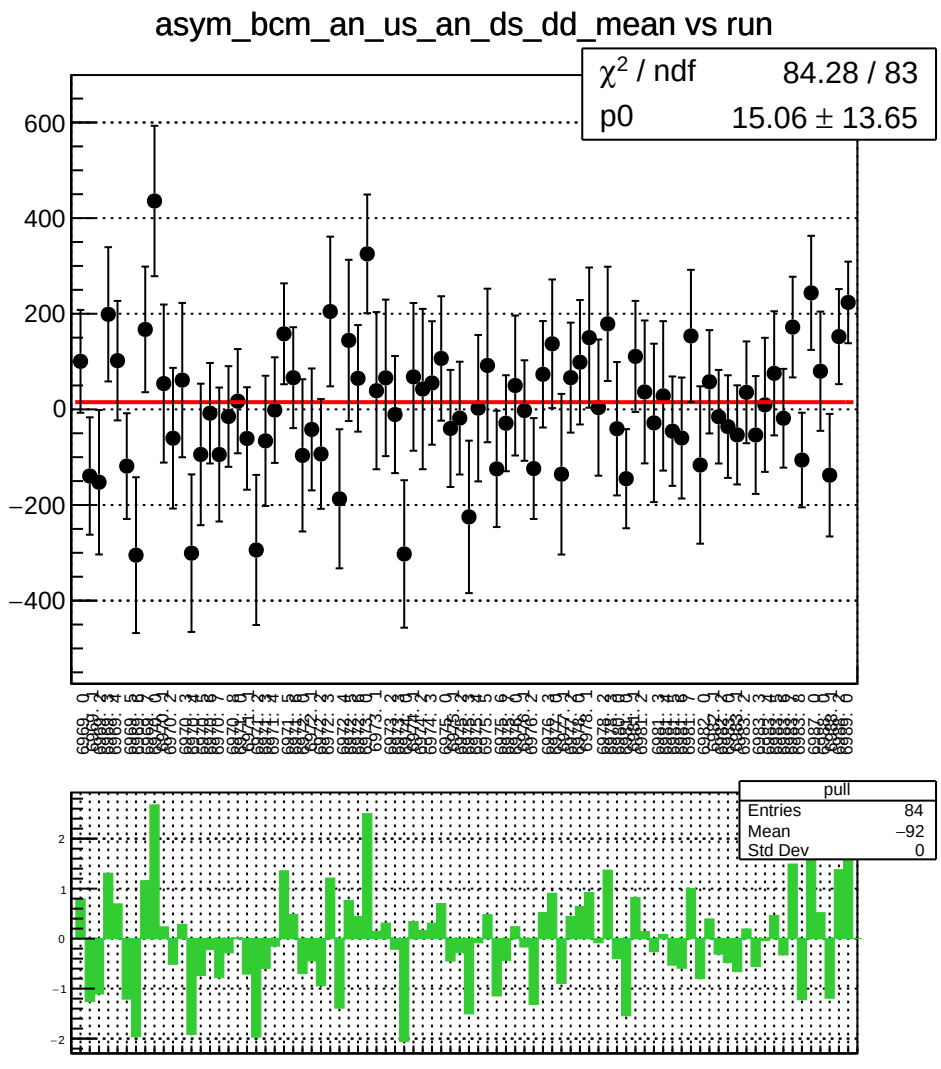

pull1D
Entries 84
Mean 0.002584
Std Dev 0.5449

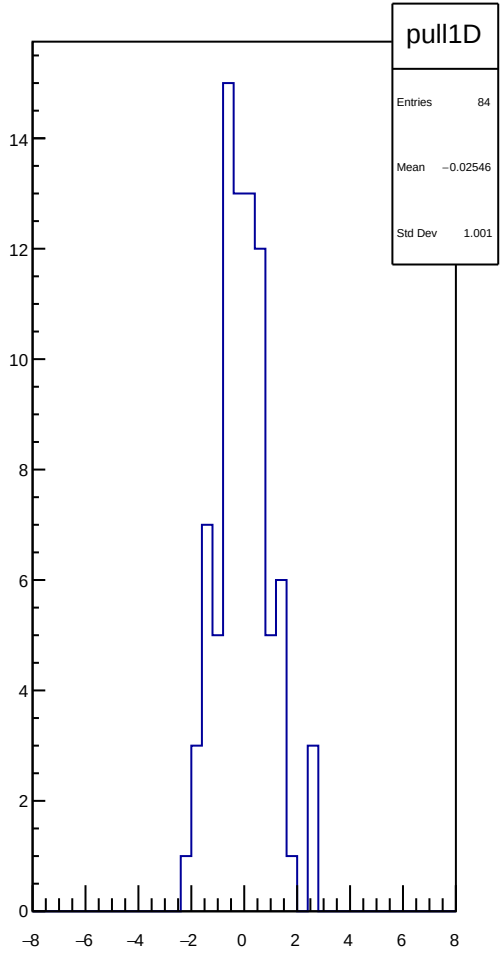

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.634e+04 / 83
p0 63.02 ± 0.04896
85
80
75
70
65
60
55

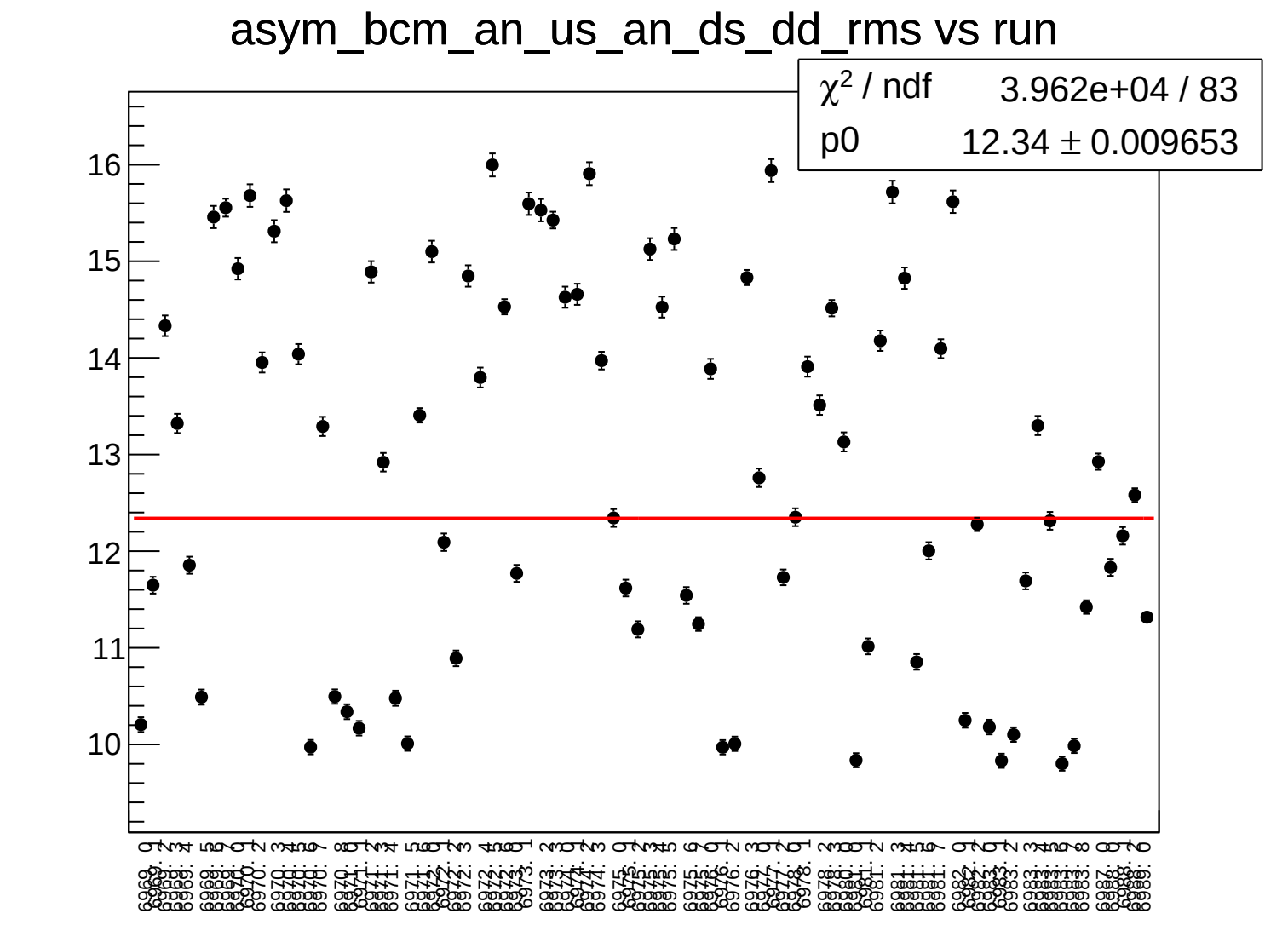

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 24.03 / 83
p0 260.3 ± 201.6
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 118.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

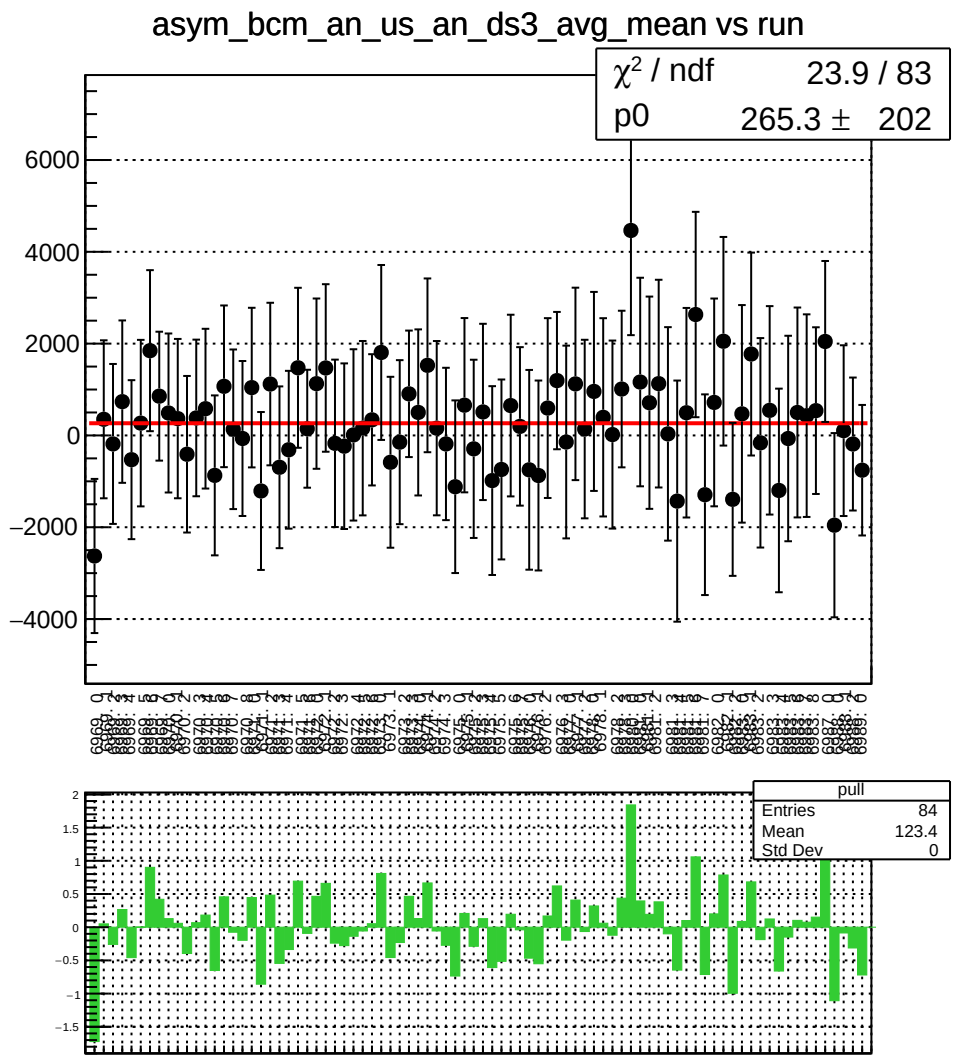

pull1D
Entries 84
Mean 0.007049
Std Dev 0.5348
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

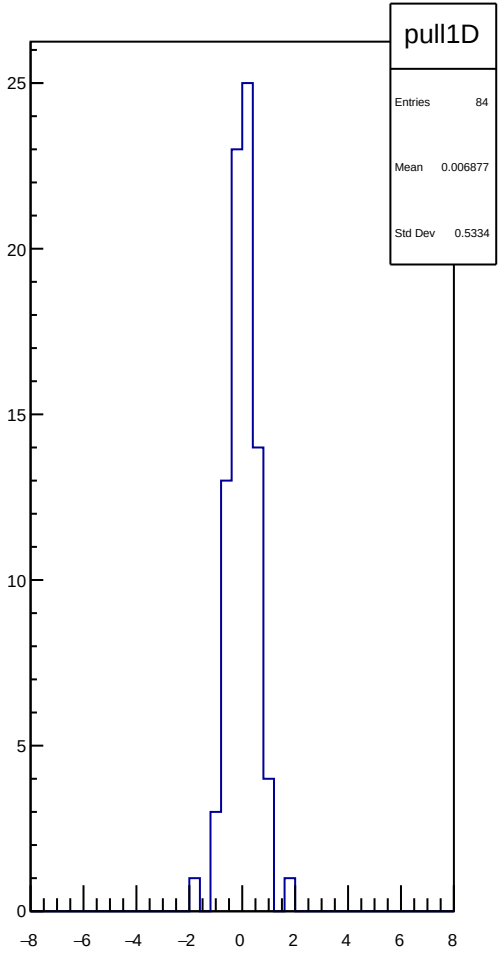

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1.797e+04 / 83
p0 183.4 ± 0.1426
240
220
200
180
160

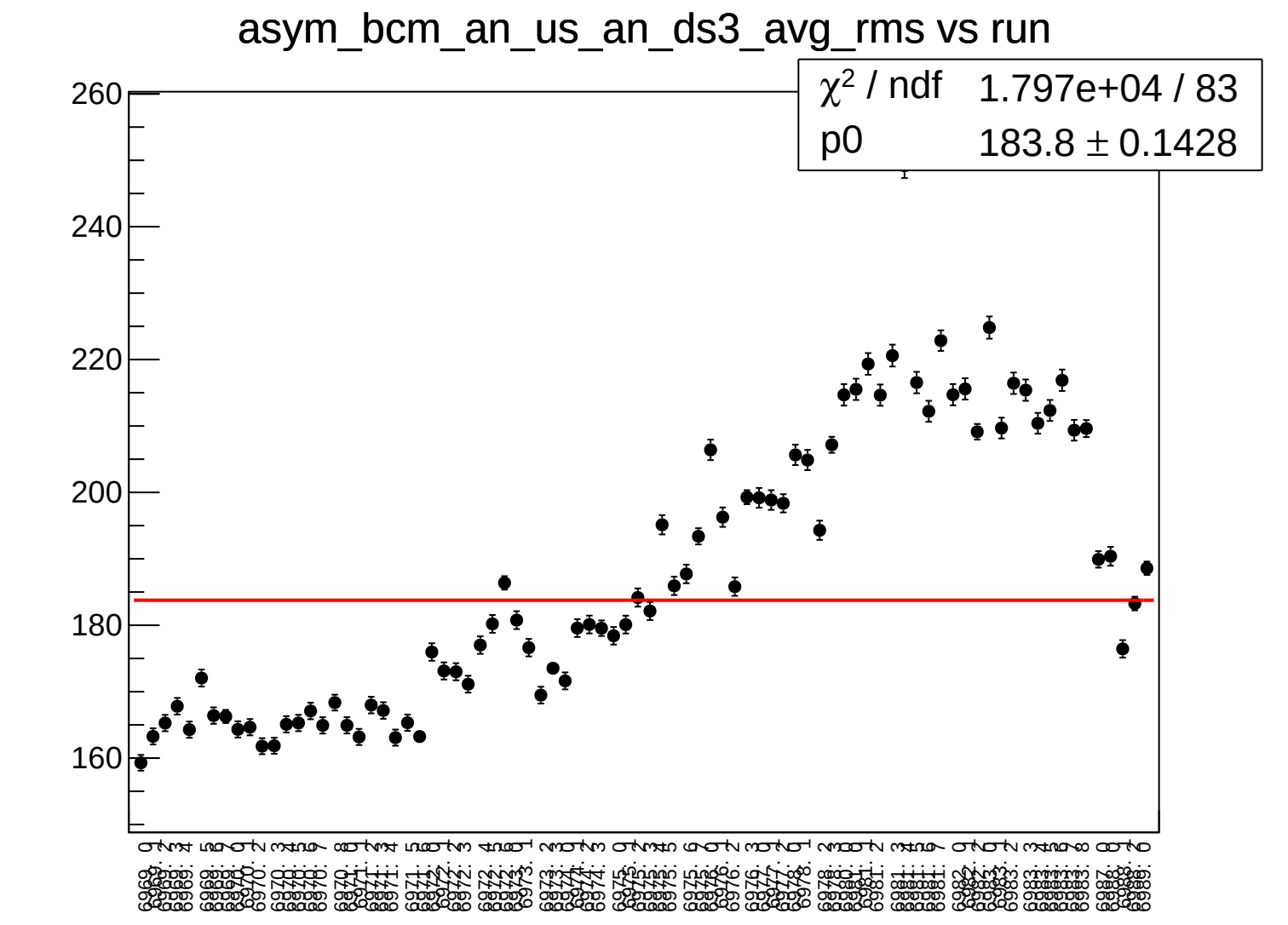

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 84.28 / 83
p0 15.06 ± 13.65
600
400
200
0
−200
−400
pull
Entries 84
Mean −92
Std Dev 0
2
1
0
−1
−2

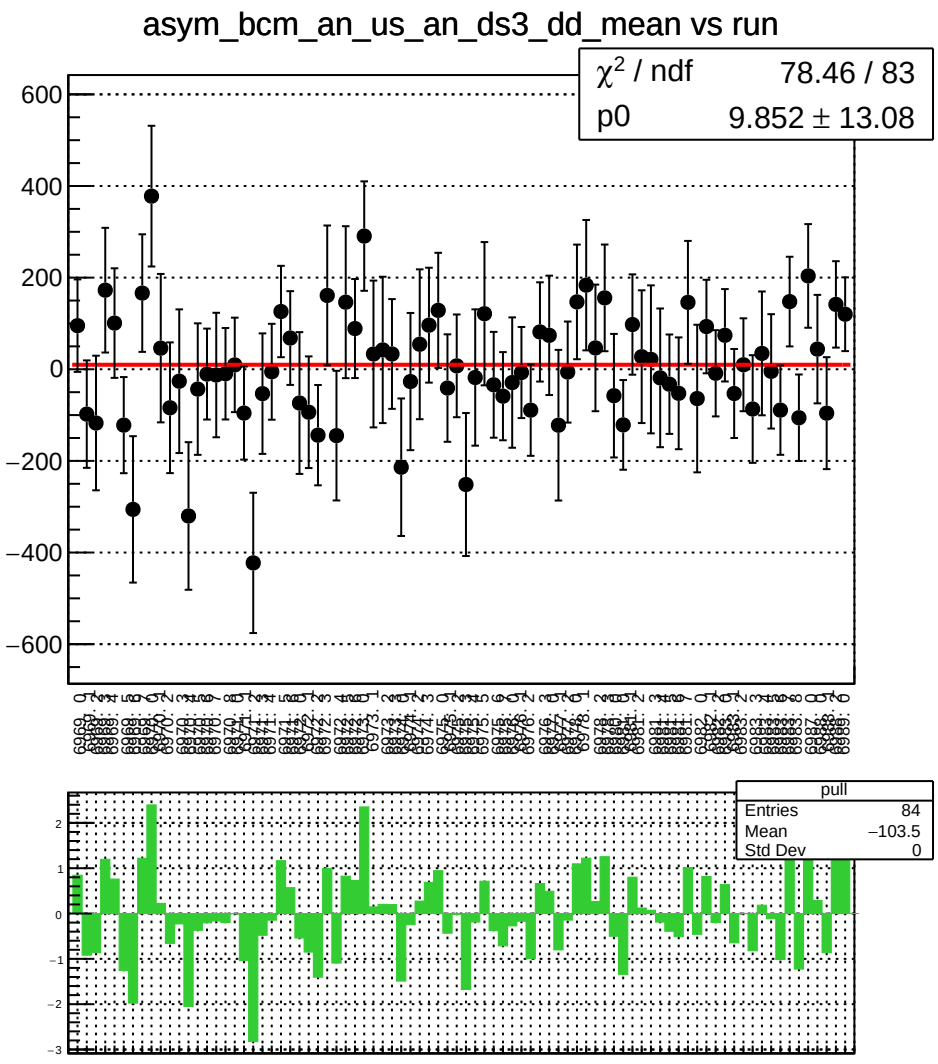

pull1D
Entries 84
Mean −0.02546
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

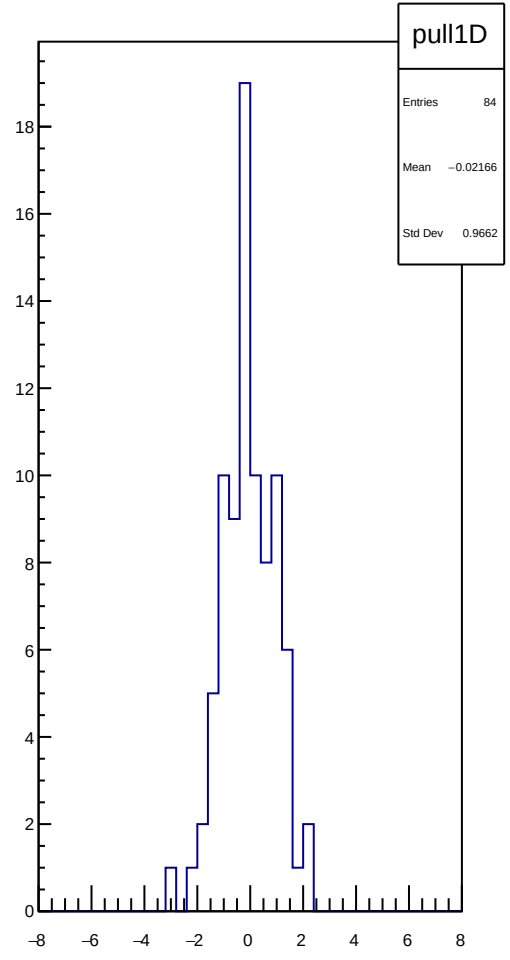

asym_bcm_an_us_an_ds_dd_rms vs run
χ^2 / ndf 3.962e+04 / 83
p0 12.34 ± 0.009653
16
15
14
13
12
11
10

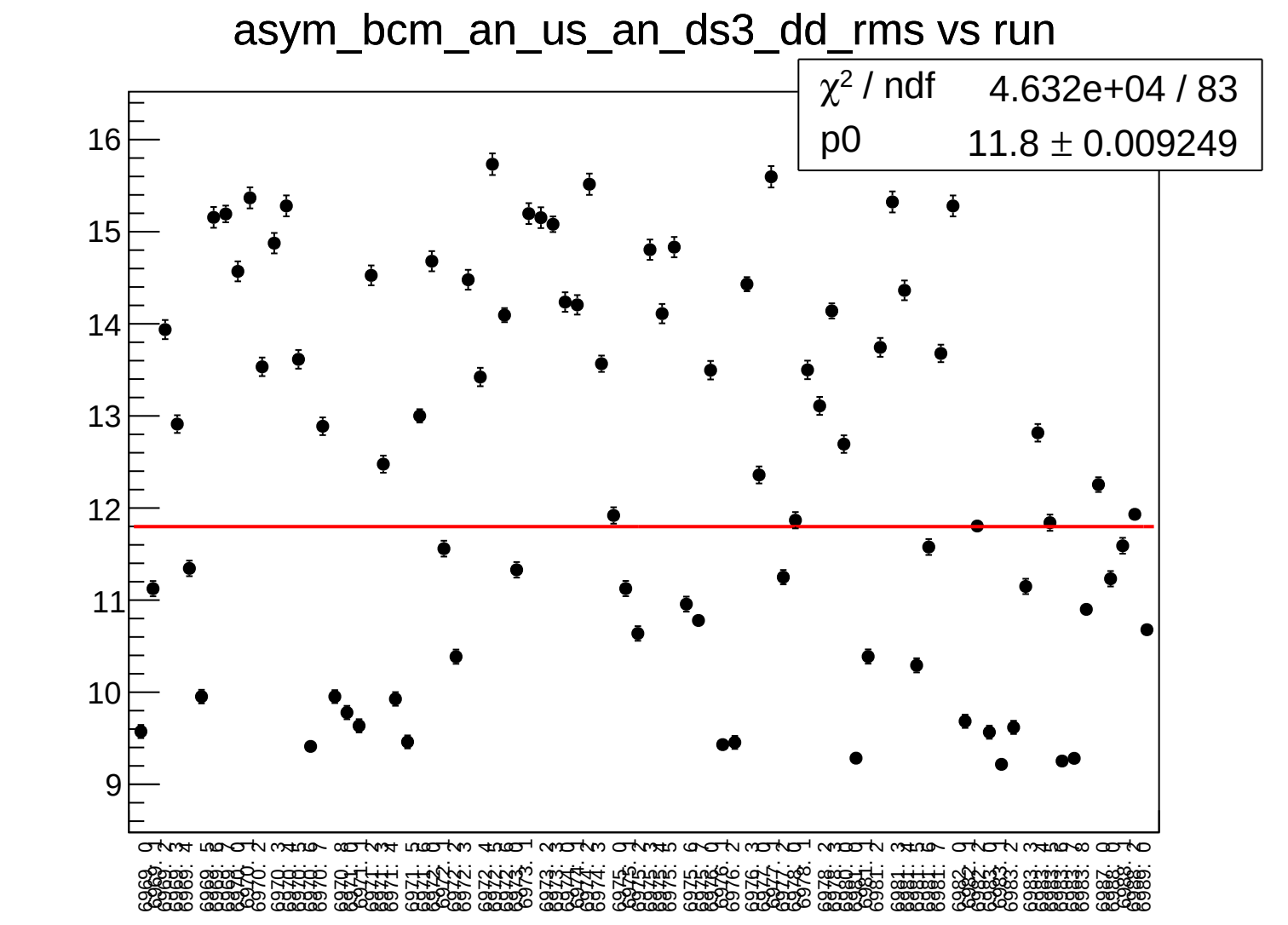

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 23.9 / 83
p0 265.3 ± 202
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 123.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

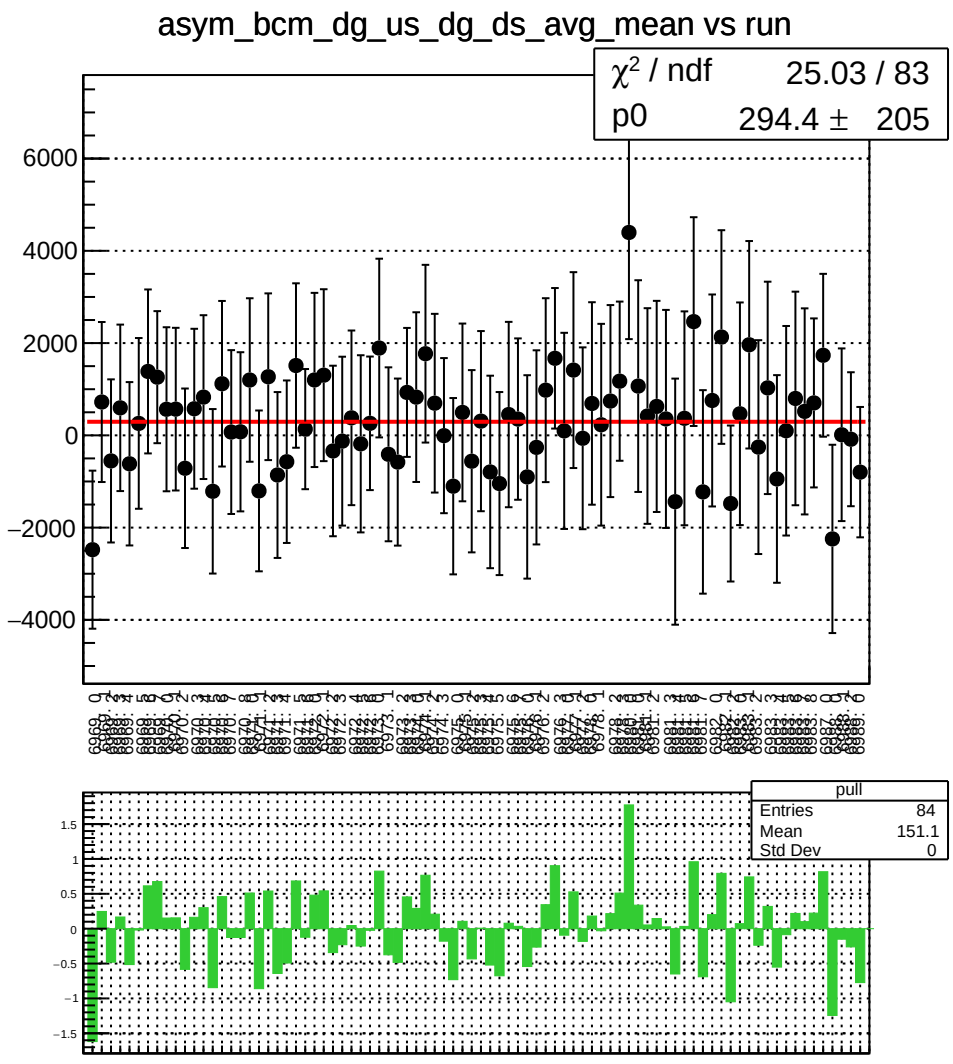

pull1D
Entries 84
Mean 0.006877
Std Dev 0.5334
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

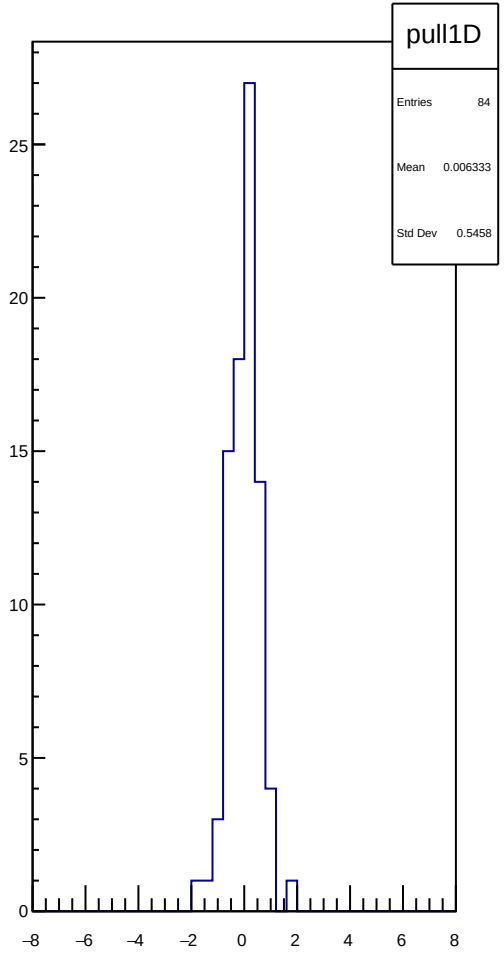

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1.797e+04 / 83
p0 183.8 ± 0.1428
260
240
220
200
180
160

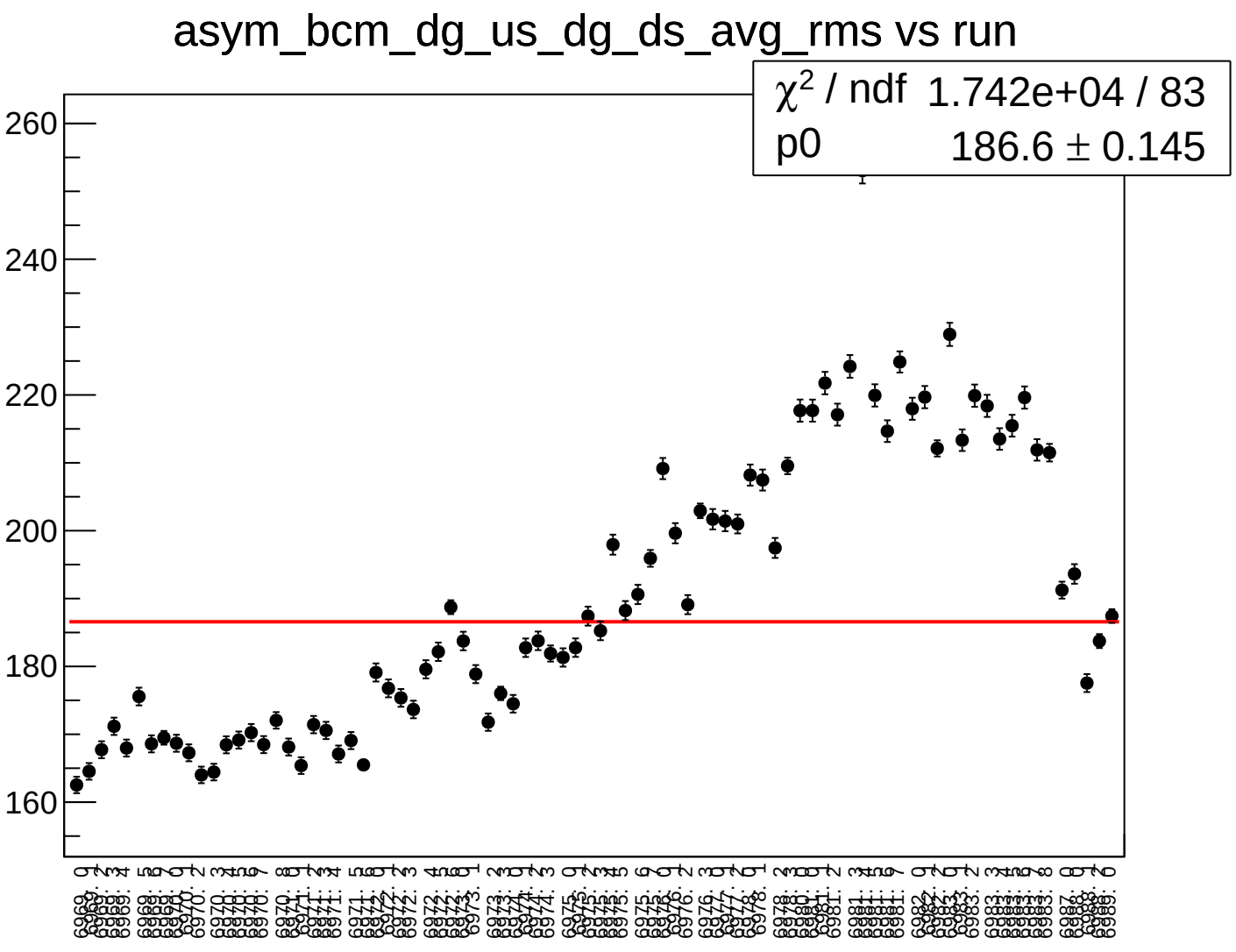

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 78.46 / 83
p0 9.852 ± 13.08
pull
Entries 84
Mean −103.5
Std Dev 0

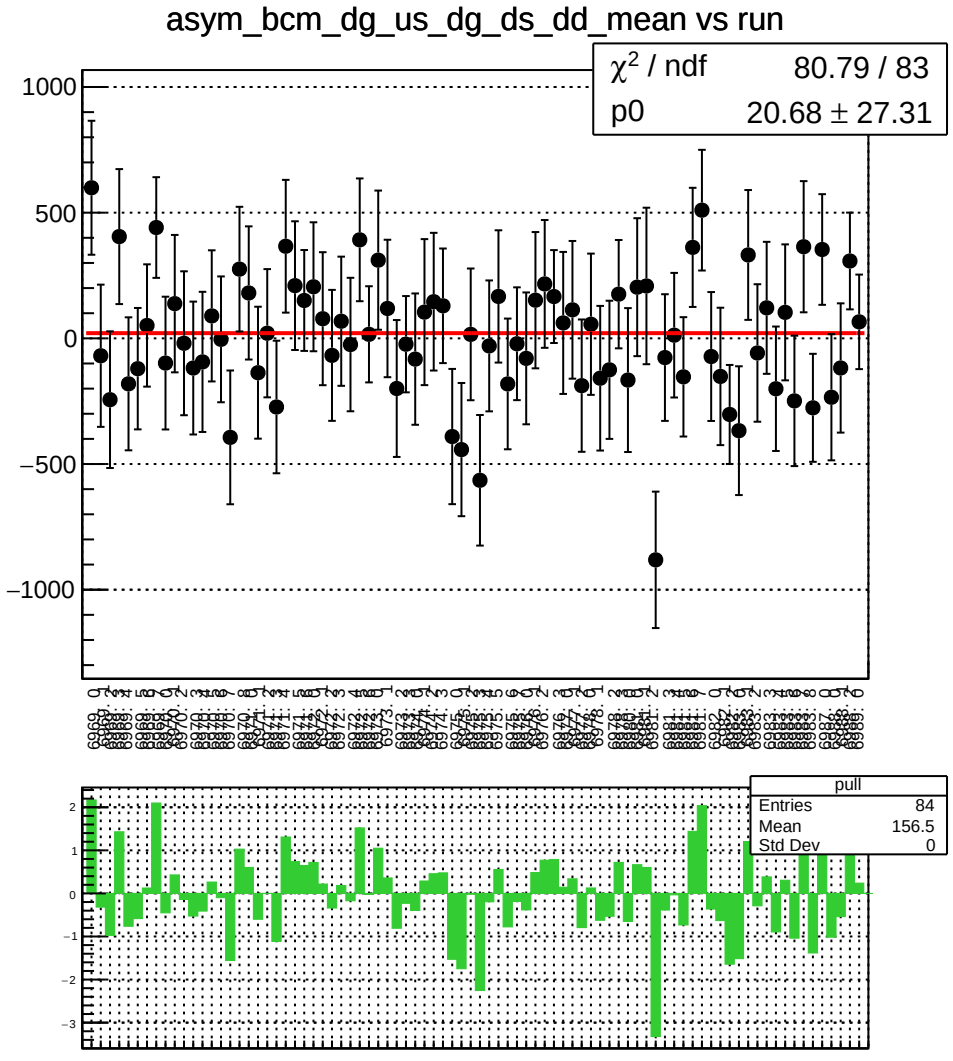

pull1D
Entries 84
Mean −0.02166
Std Dev 0.9662

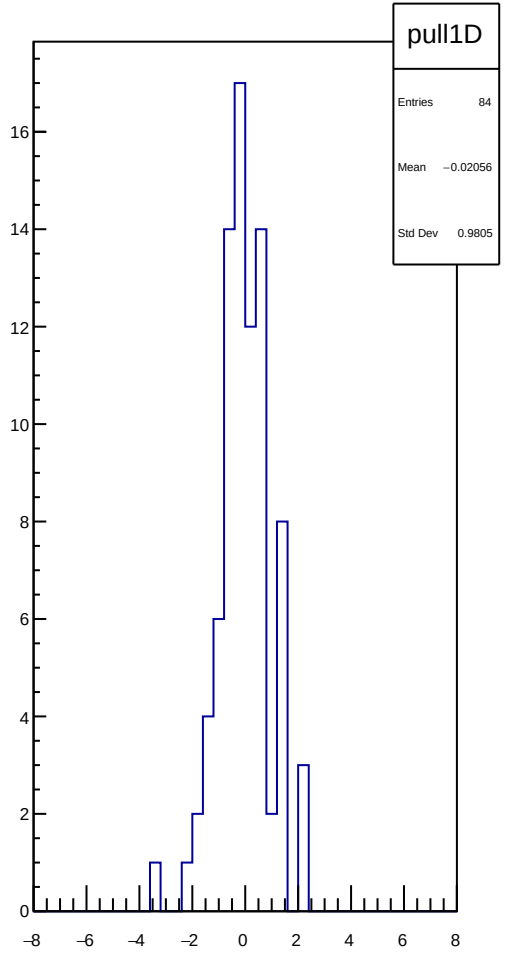

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 4.632e+04 / 83
p0 11.8 ± 0.009249
16
15
14
13
12
11
10
9


asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 25.03 / 83
p0 294.4 ± 205
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 151.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 84
Mean 0.006333
Std Dev 0.5458
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.742e+04 / 83
p0 186.6 ± 0.145
260
240
220
200
180
160


asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 80.79 / 83
p0 20.68 ± 27.31
1000
500
0
−500
−1000
pull
Entries 84
Mean 156.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 84
Mean −0.02056
Std Dev 0.9805
16
14
12
10
8
6
4
2
0
−8
−6
−4
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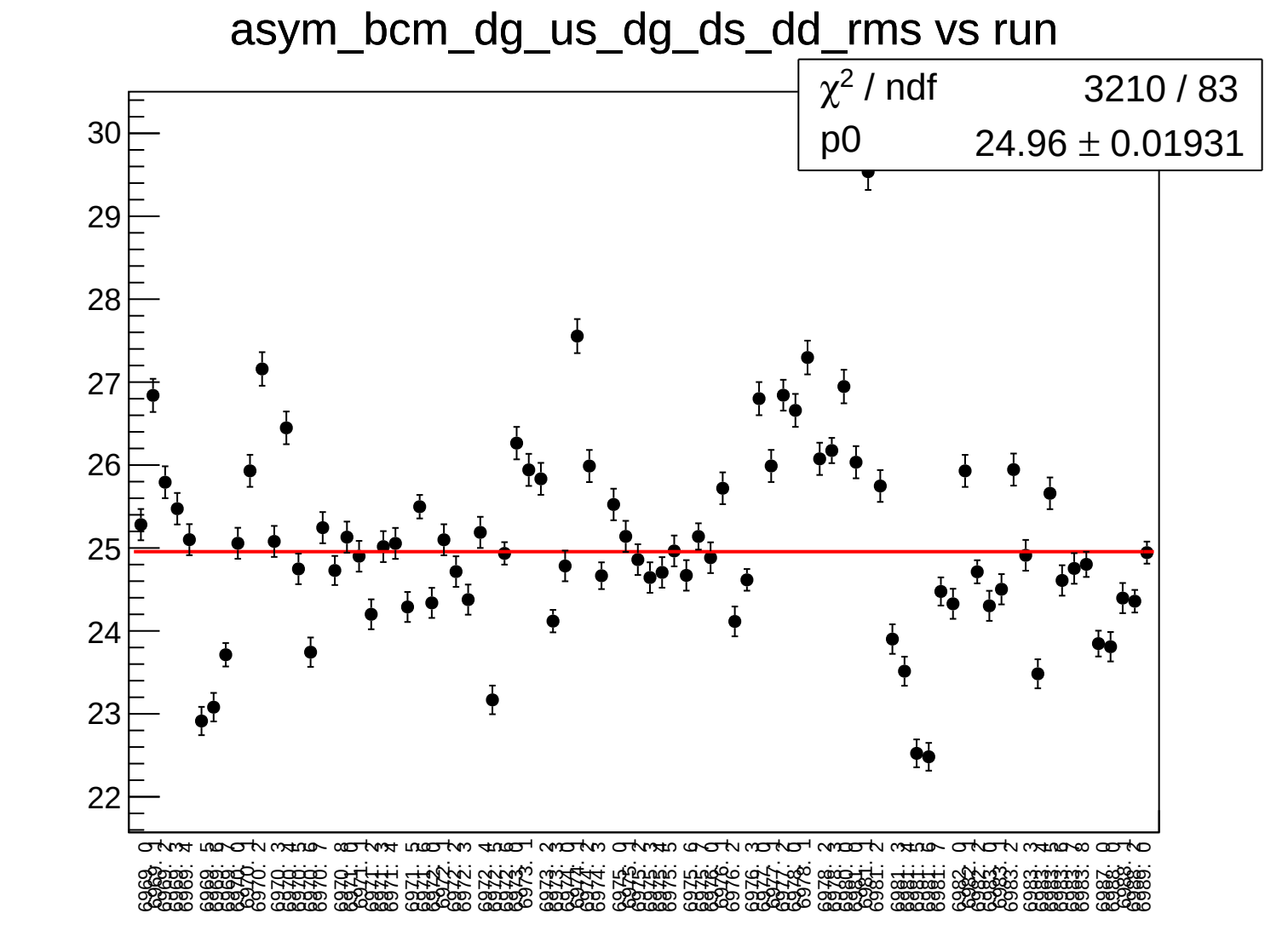
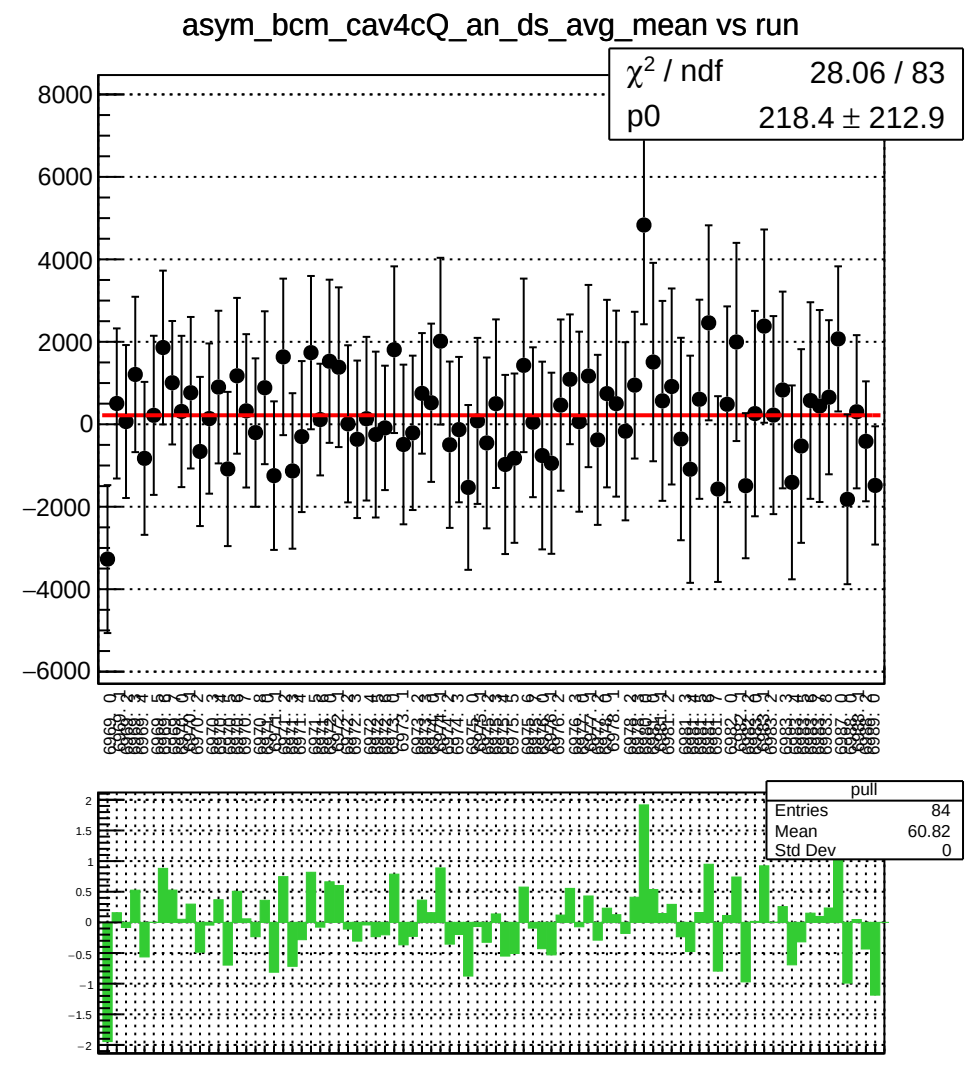
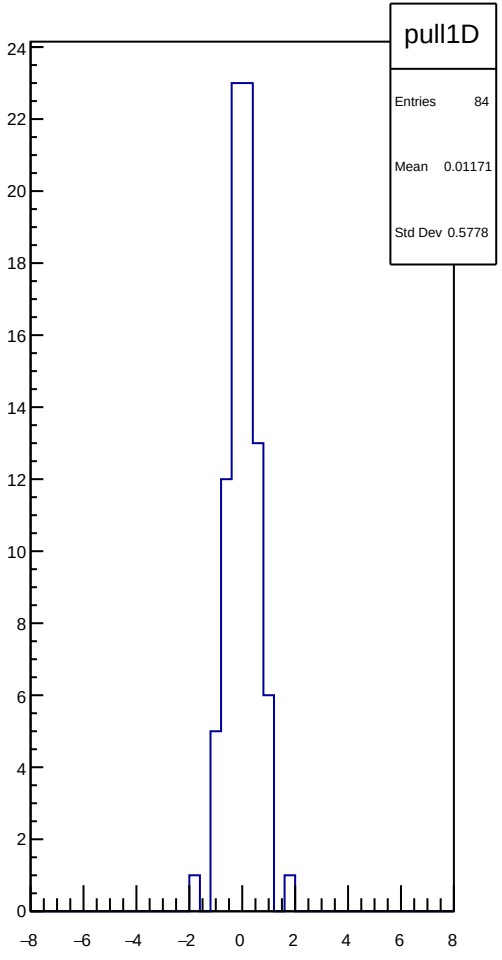
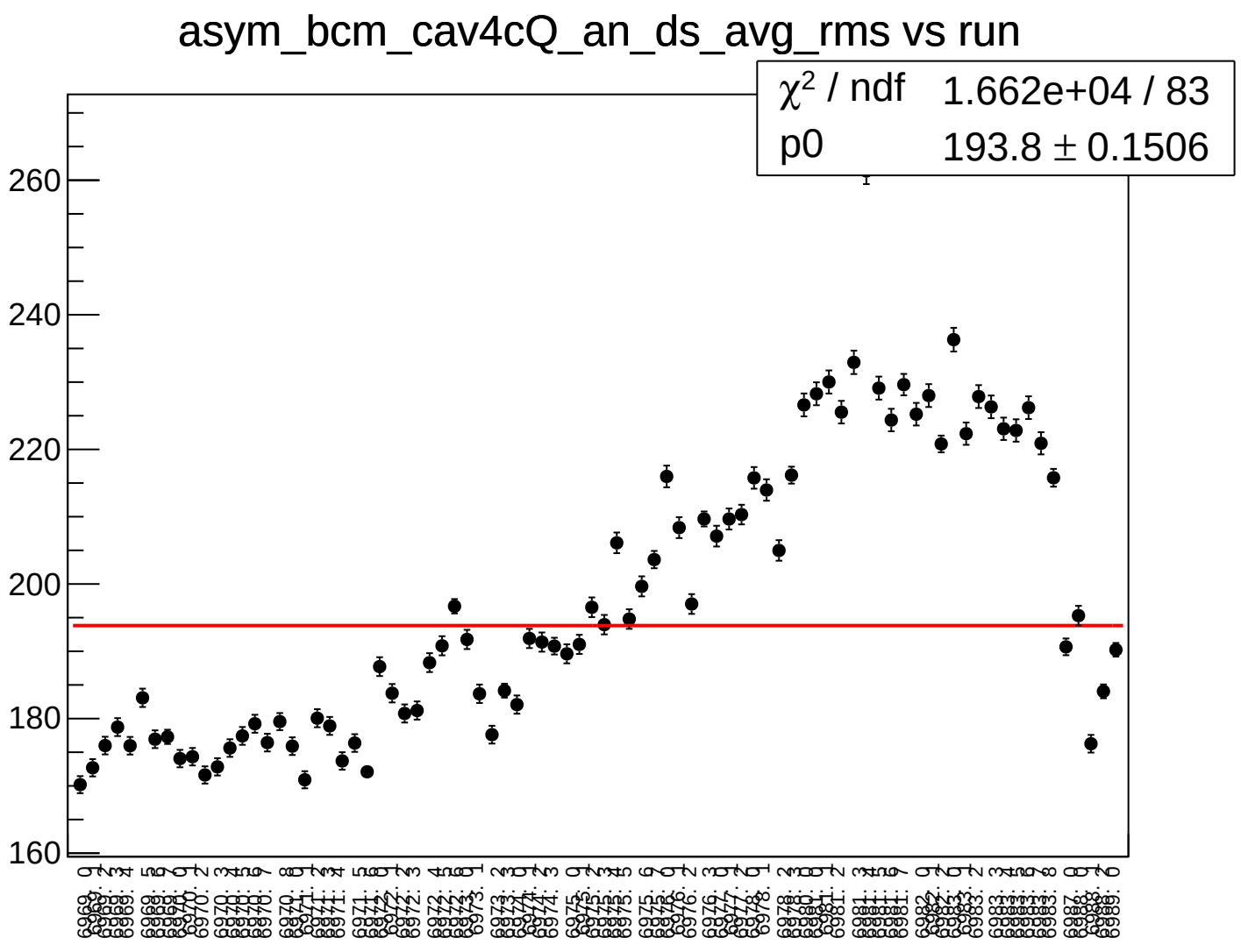
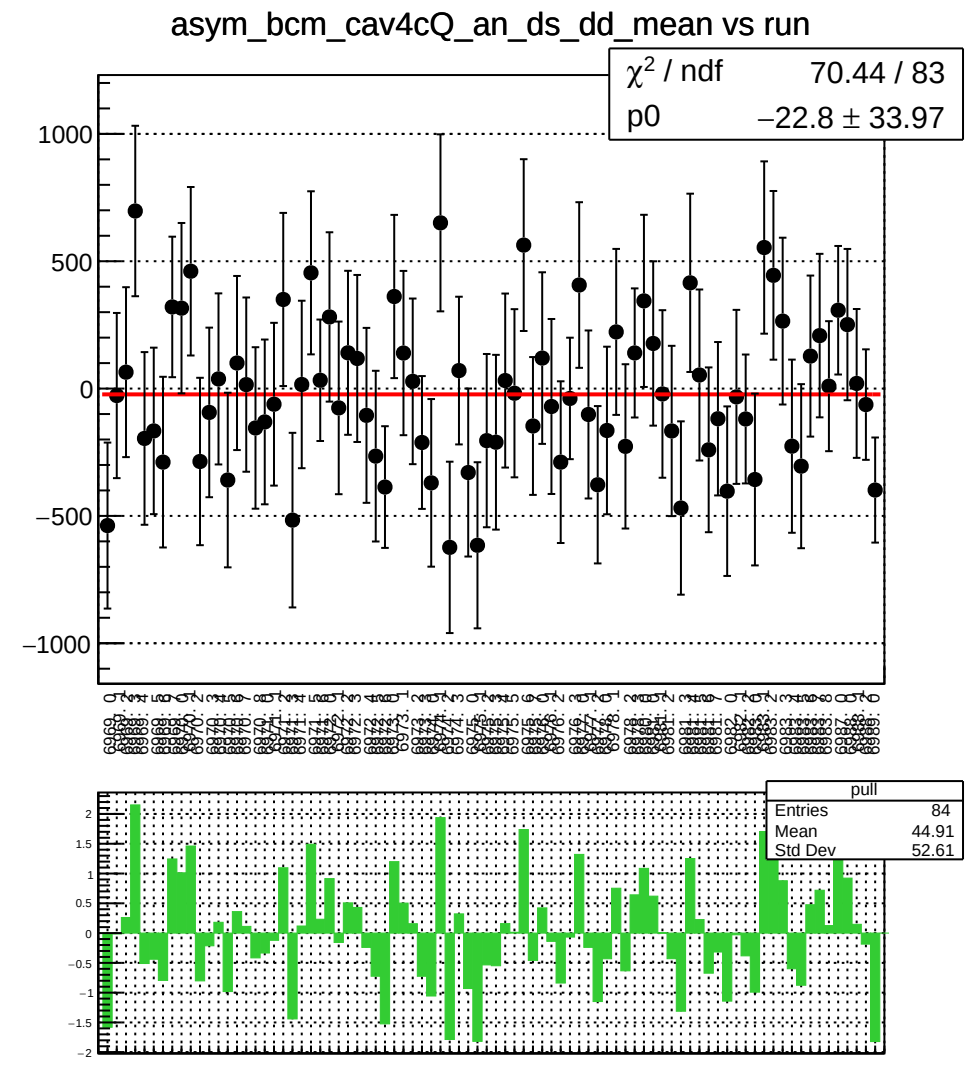
0
2
4
6
8

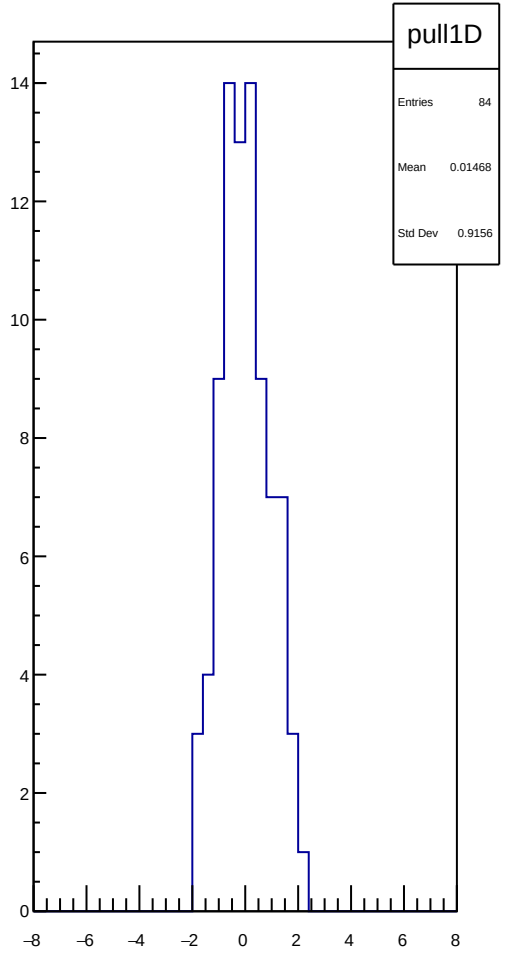

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 3210 / 83
p0 24.96 ± 0.01931
30
29
28
27
26
25
24
23
22


asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 28.06 / 83
p0 218.4 ± 212.9
pull
Entries 84
Mean 60.82
Std Dev 0


pull1D
Entries 84
Mean 0.01171
Std Dev 0.5778


asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1.662e+04 / 83
p0 193.8 ± 0.1506
260
240
220
200
180
160


asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 70.44 / 83
p0 −22.8 ± 33.97
1000
500
0
−500
−1000
pull
Entries 84
Mean 44.91
Std Dev 52.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 84
Mean 0.01468
Std Dev 0.9156
14
12
10
8
6
4
2
0
−8
−6
−4
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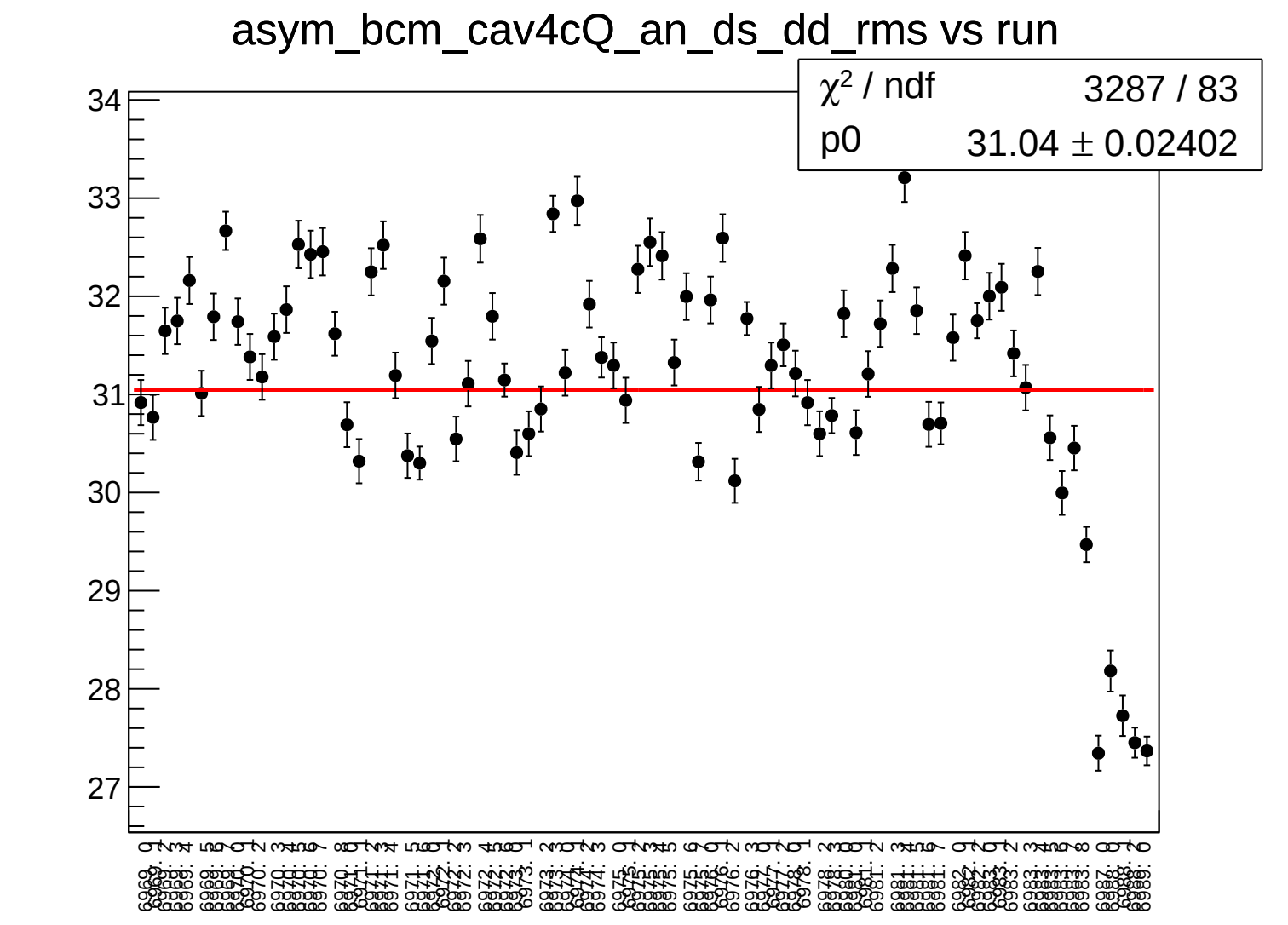
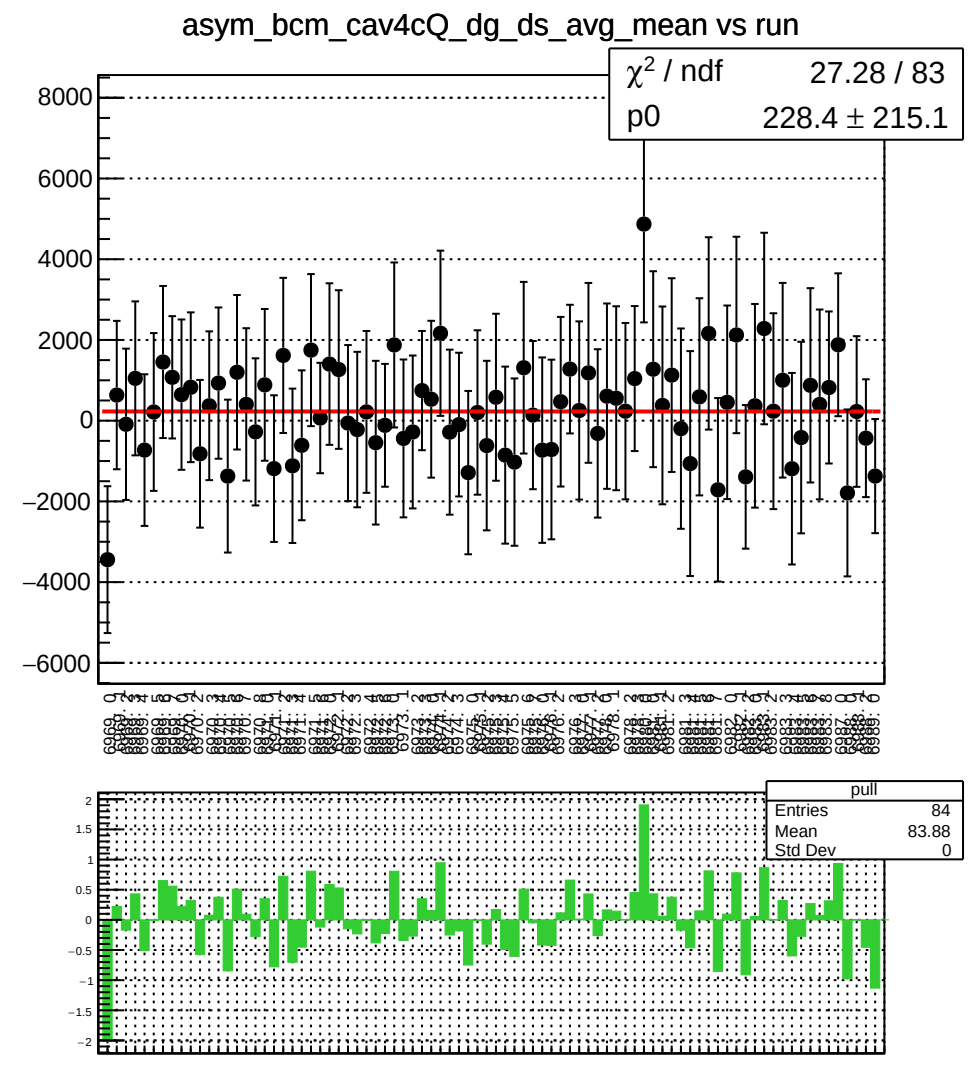
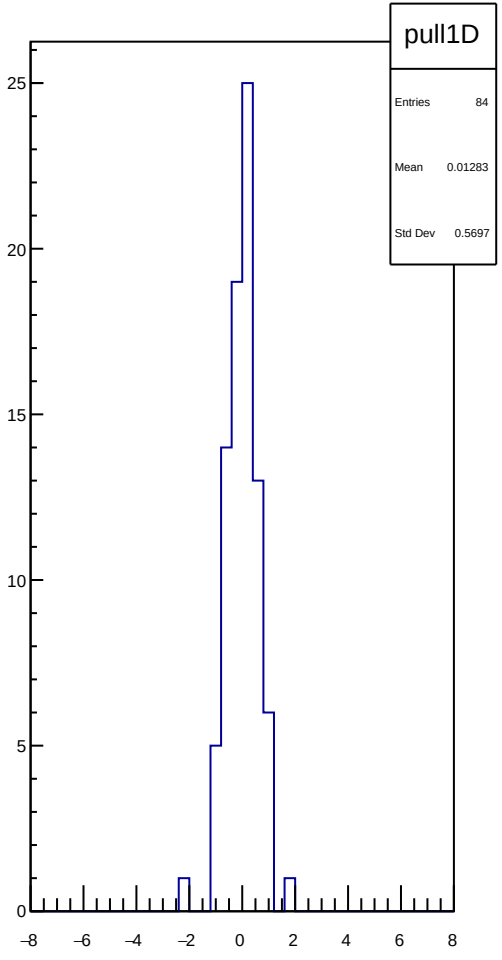
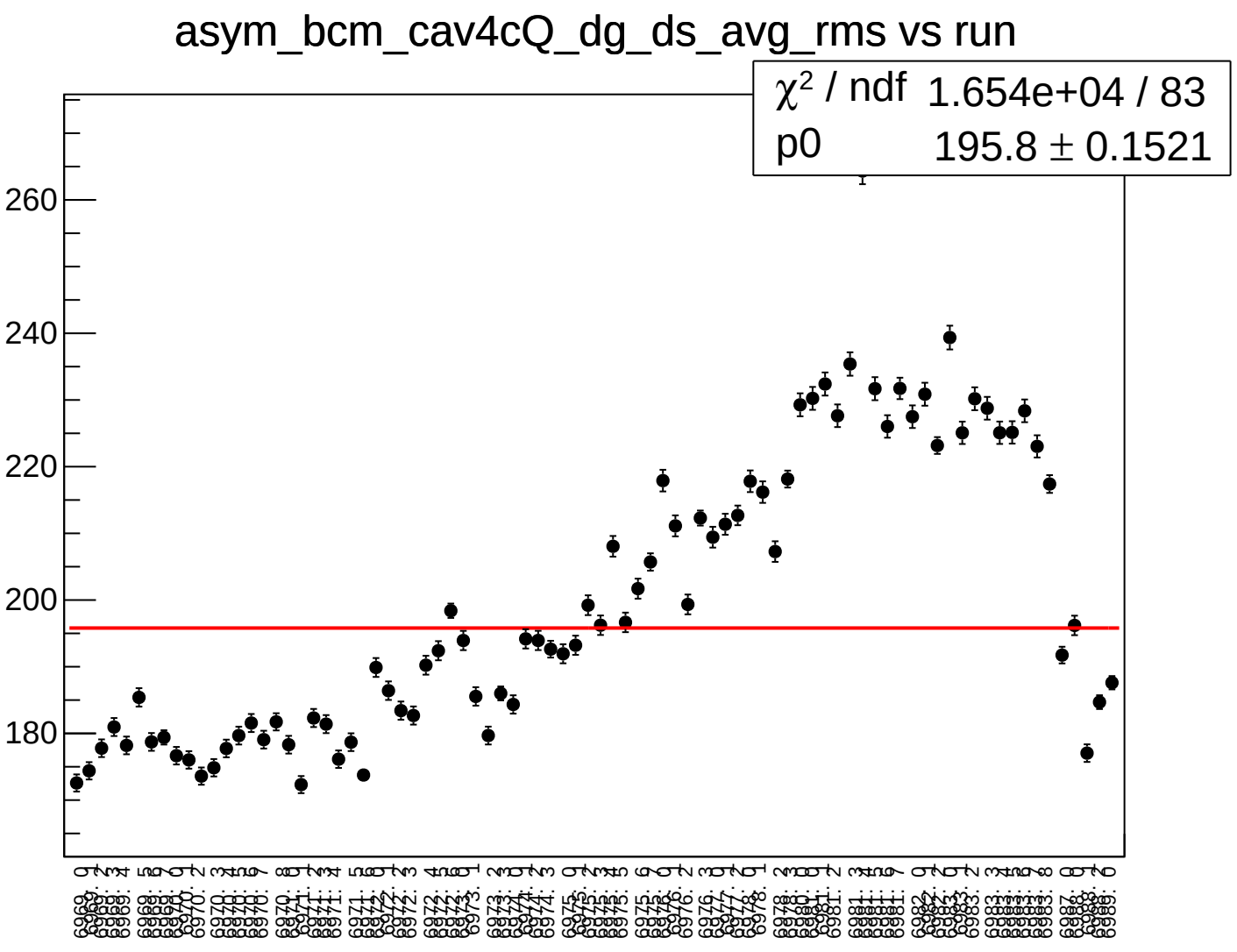
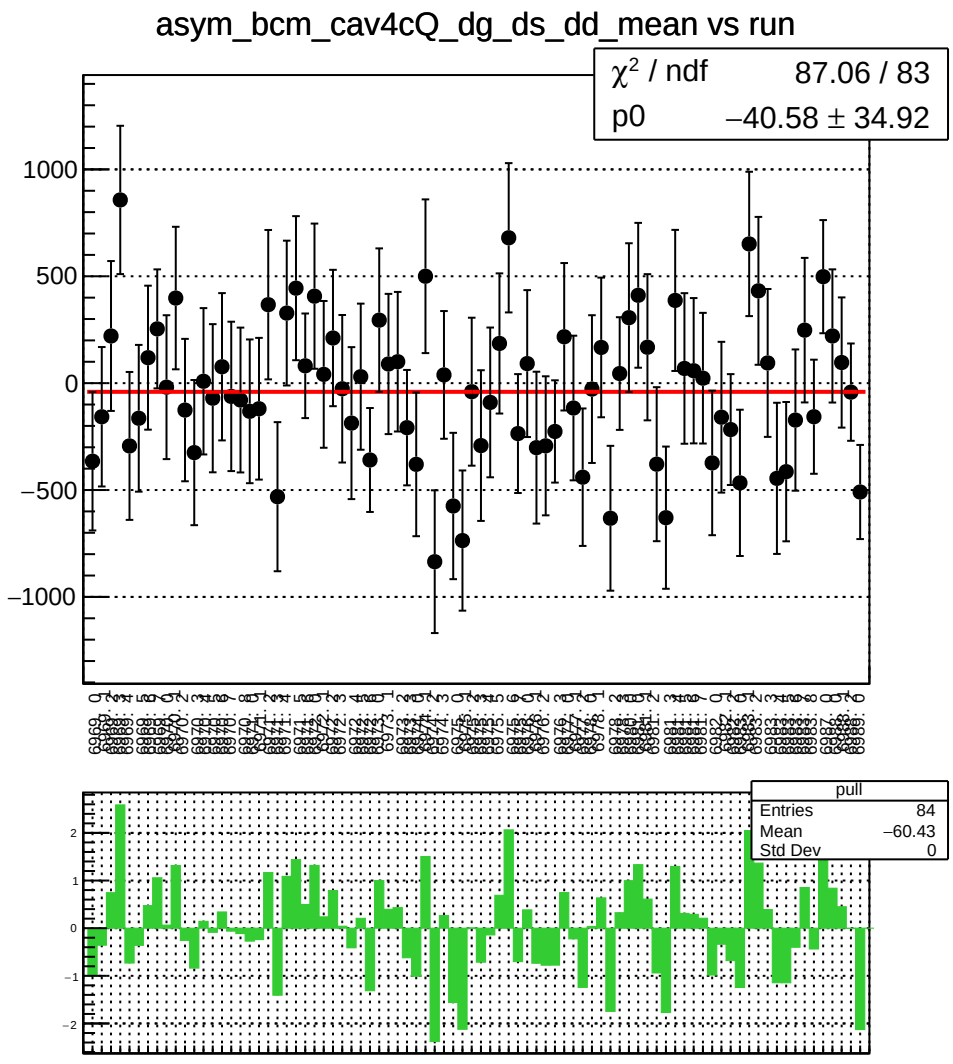
0
2
4
6
8

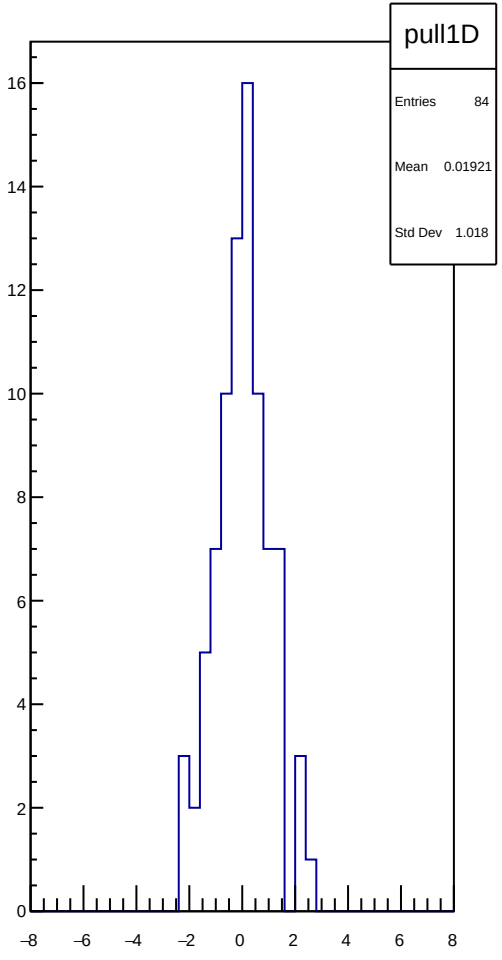

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 3287 / 83
p0 31.04 ± 0.02402
34
33
32
31
30
29
28
27

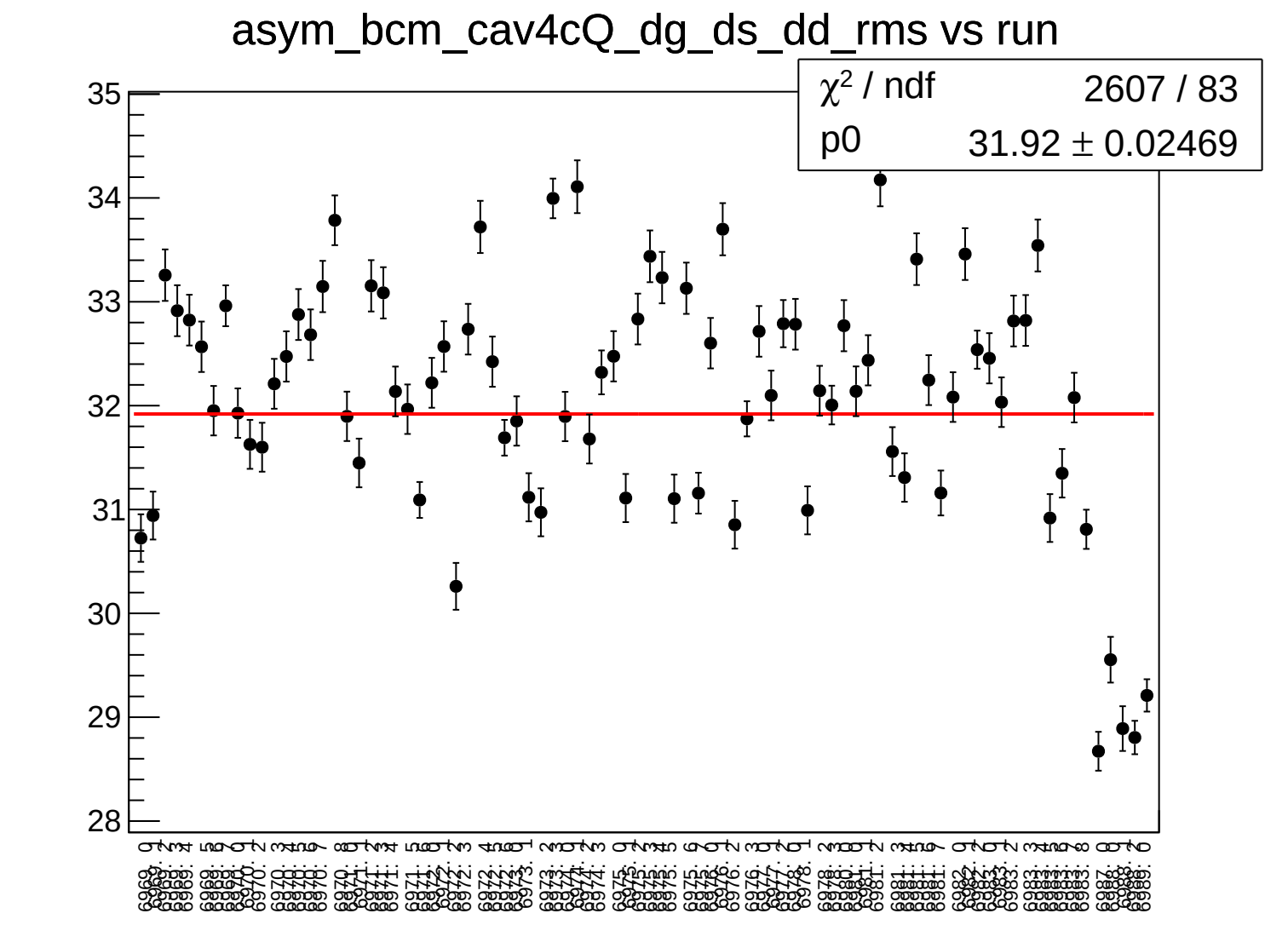

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 27.28 / 83
p0 228.4 ± 215.1
pull
Entries 84
Mean 83.88
Std Dev 0

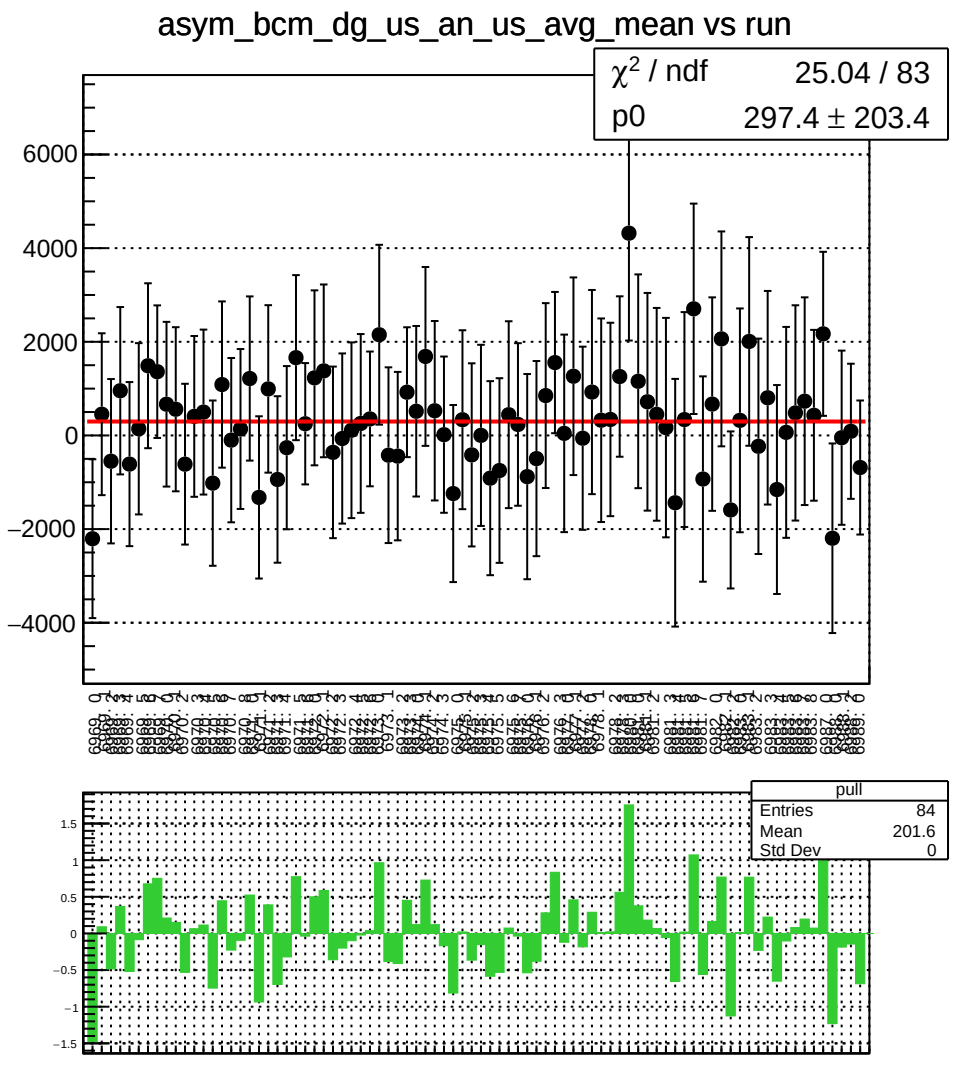

pull1D
Entries 84
Mean 0.01283
Std Dev 0.5697

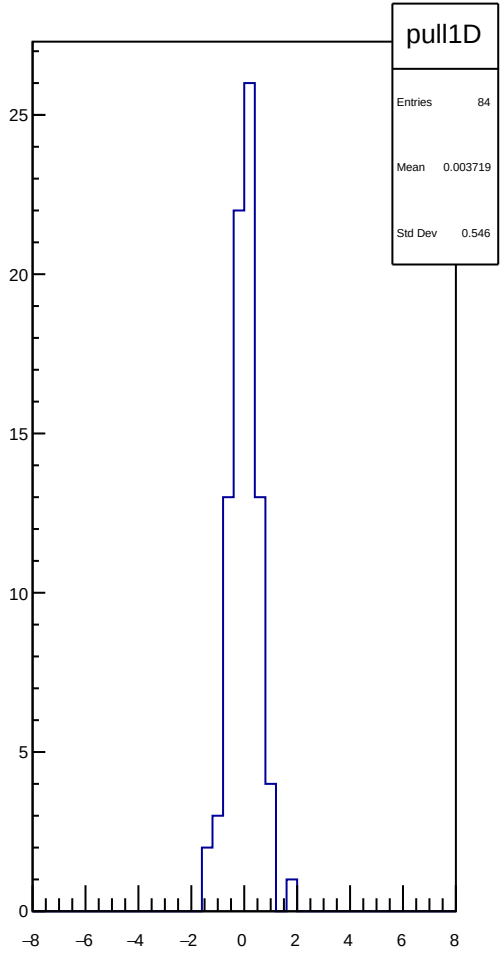

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1.654e+04 / 83
p0 195.8 ± 0.1521
260
240
220
200
180

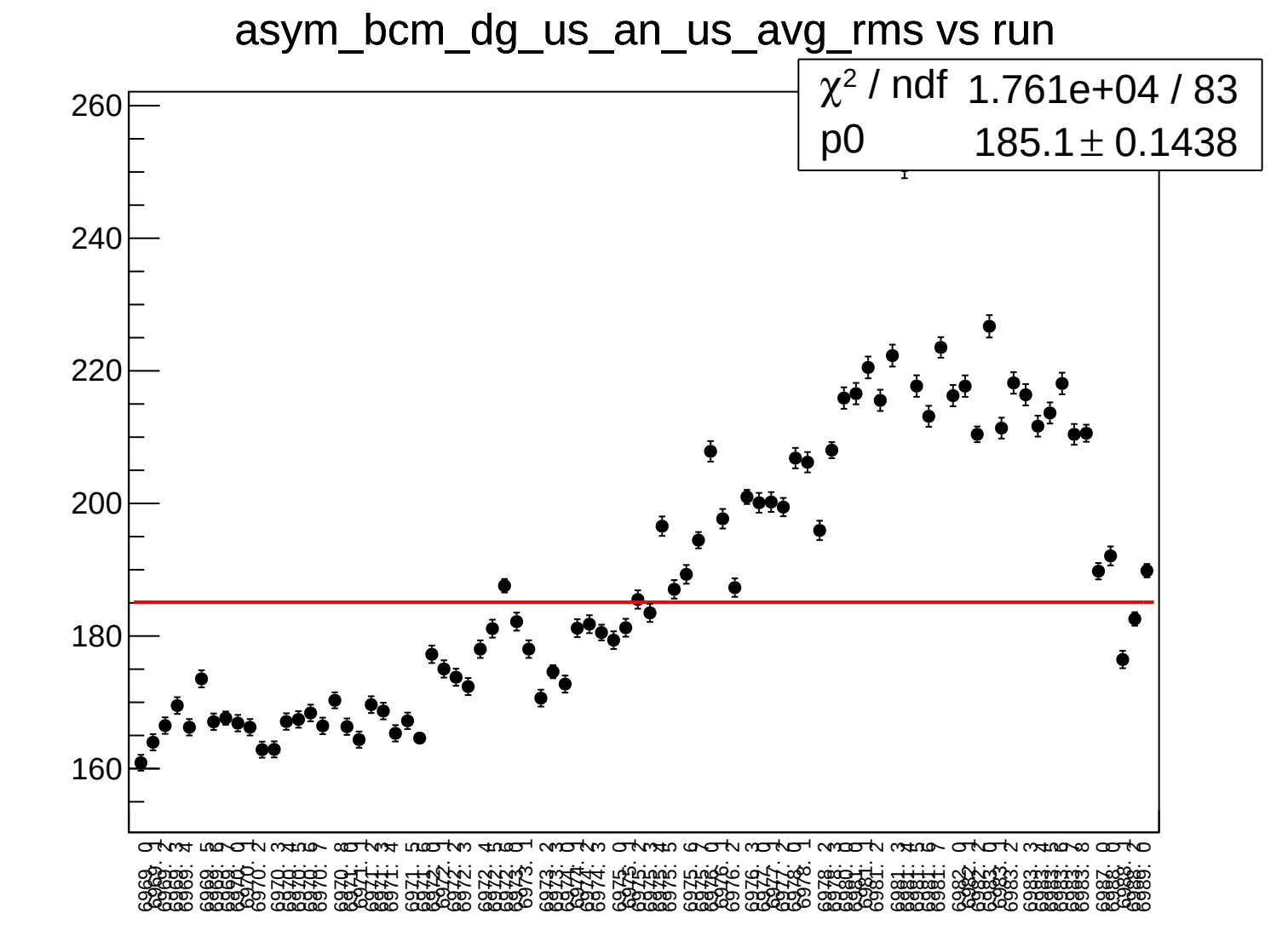

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 87.06 / 83
p0 −40.58 ± 34.92
1000
500
0
−500
−1000
pull
Entries 84
Mean −60.43
Std Dev 0
2
1
0
−1
−2

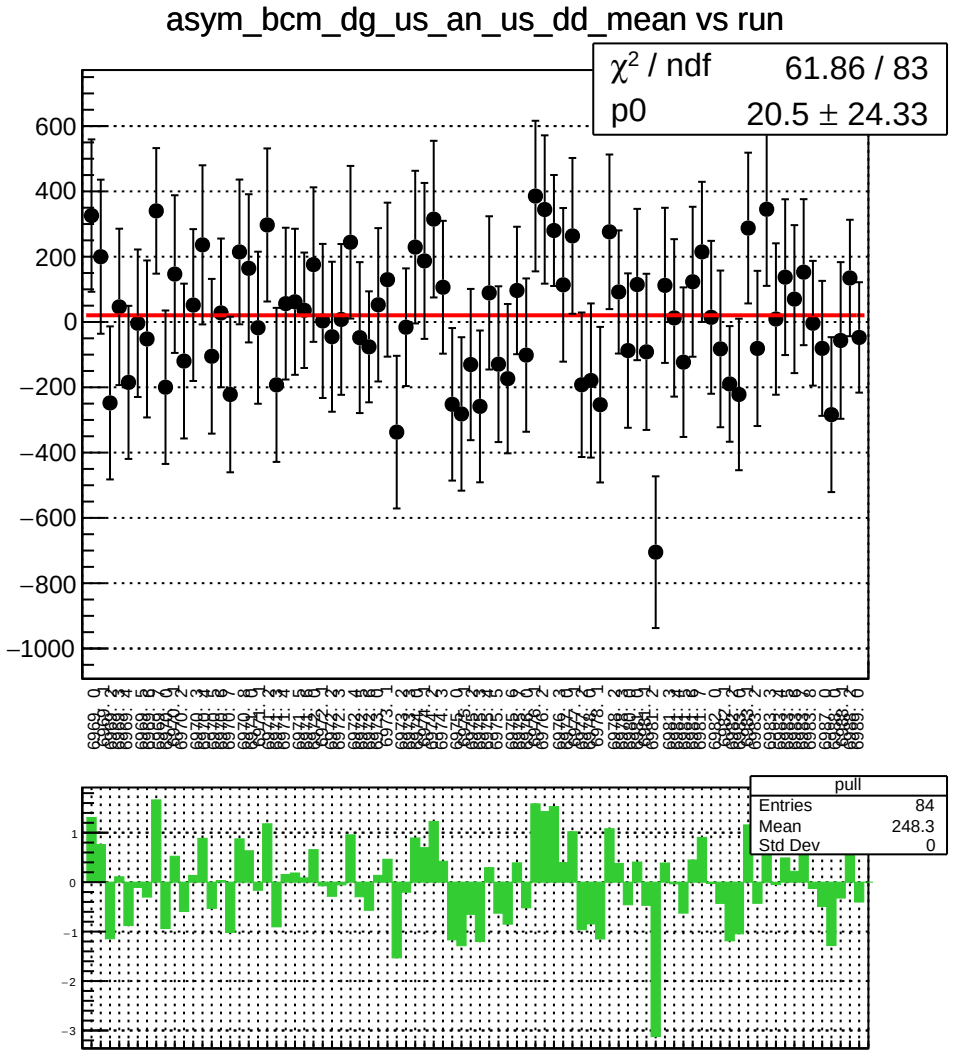

pull1D
Entries 84
Mean 0.01921
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

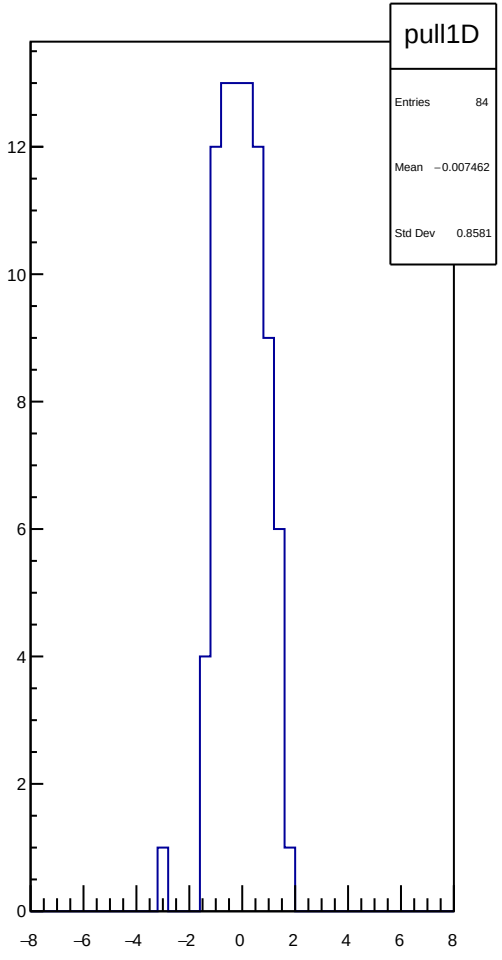

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2607 / 83
p0 31.92 ± 0.02469
35
34
33
32
31
30
29
28

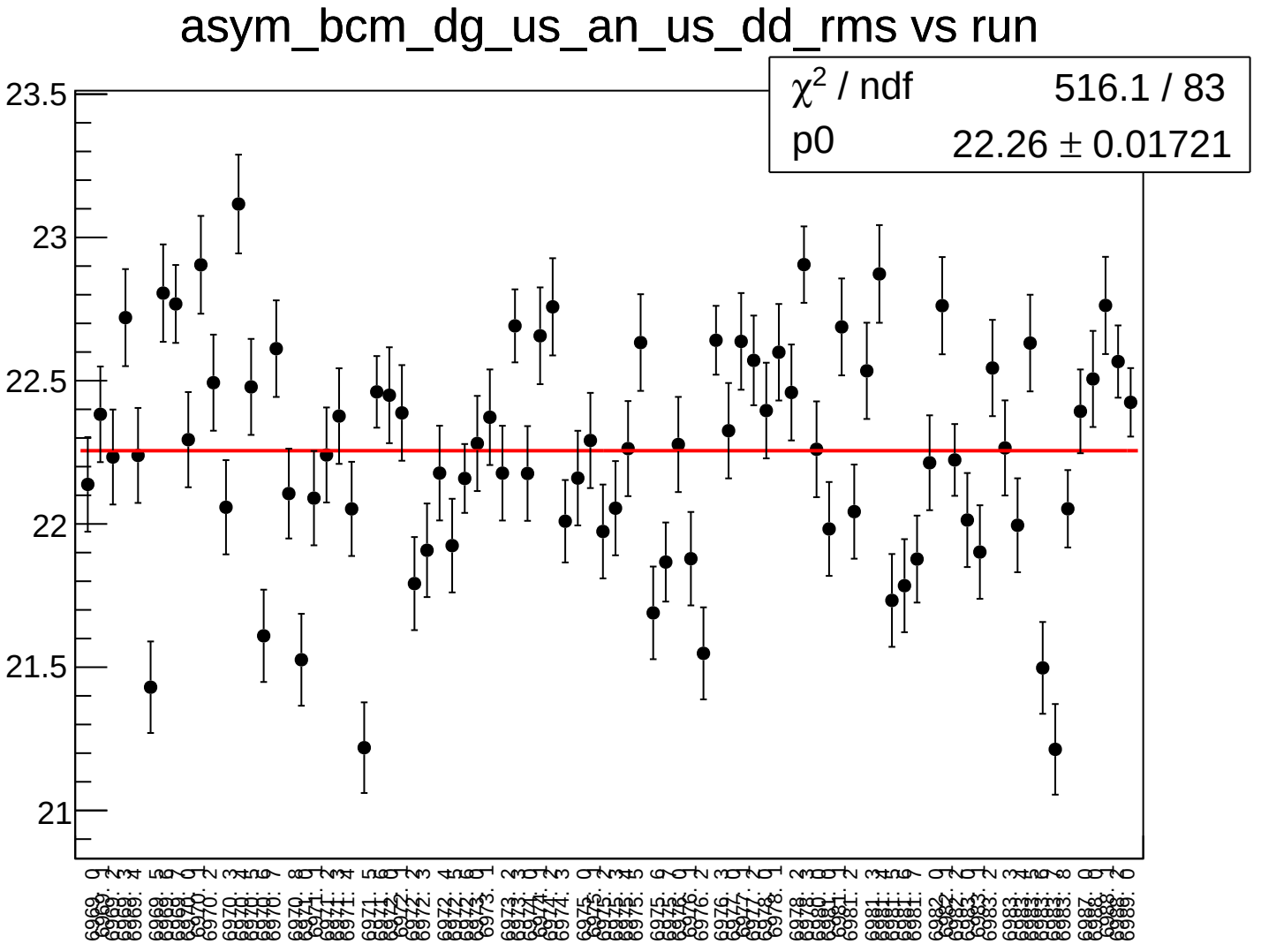

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 25.04 / 83
p0 297.4 ± 203.4
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 201.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

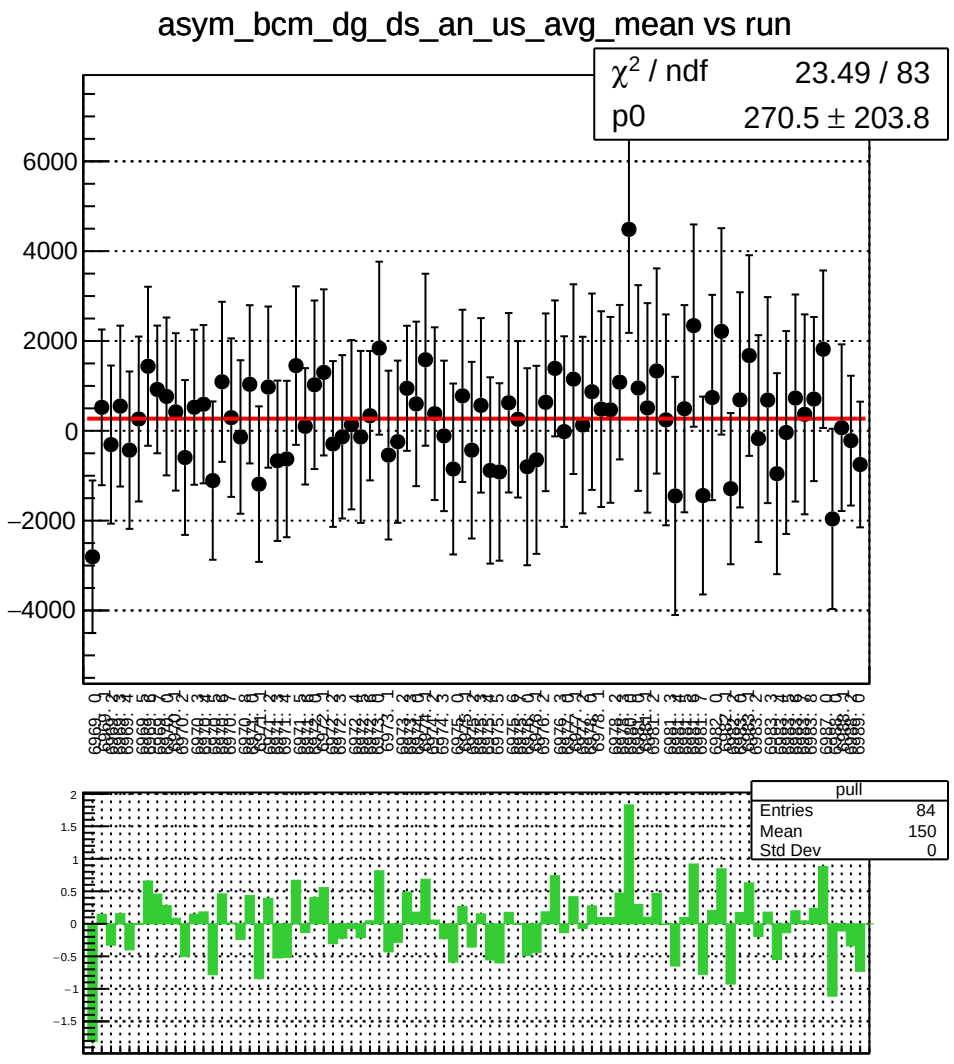

pull1D
Entries 84
Mean 0.003719
Std Dev 0.546
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

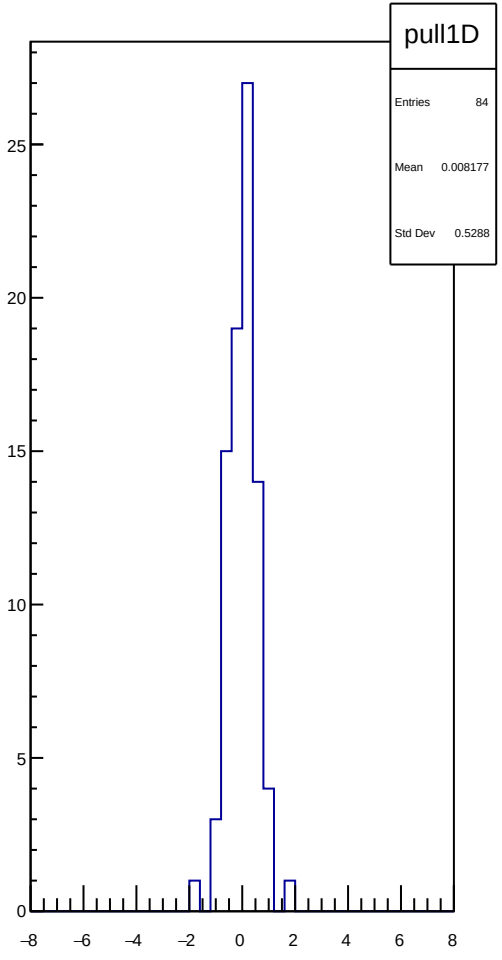

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.761e+04 / 83
p0 185.1 ± 0.1438
260
240
220
200
180
160

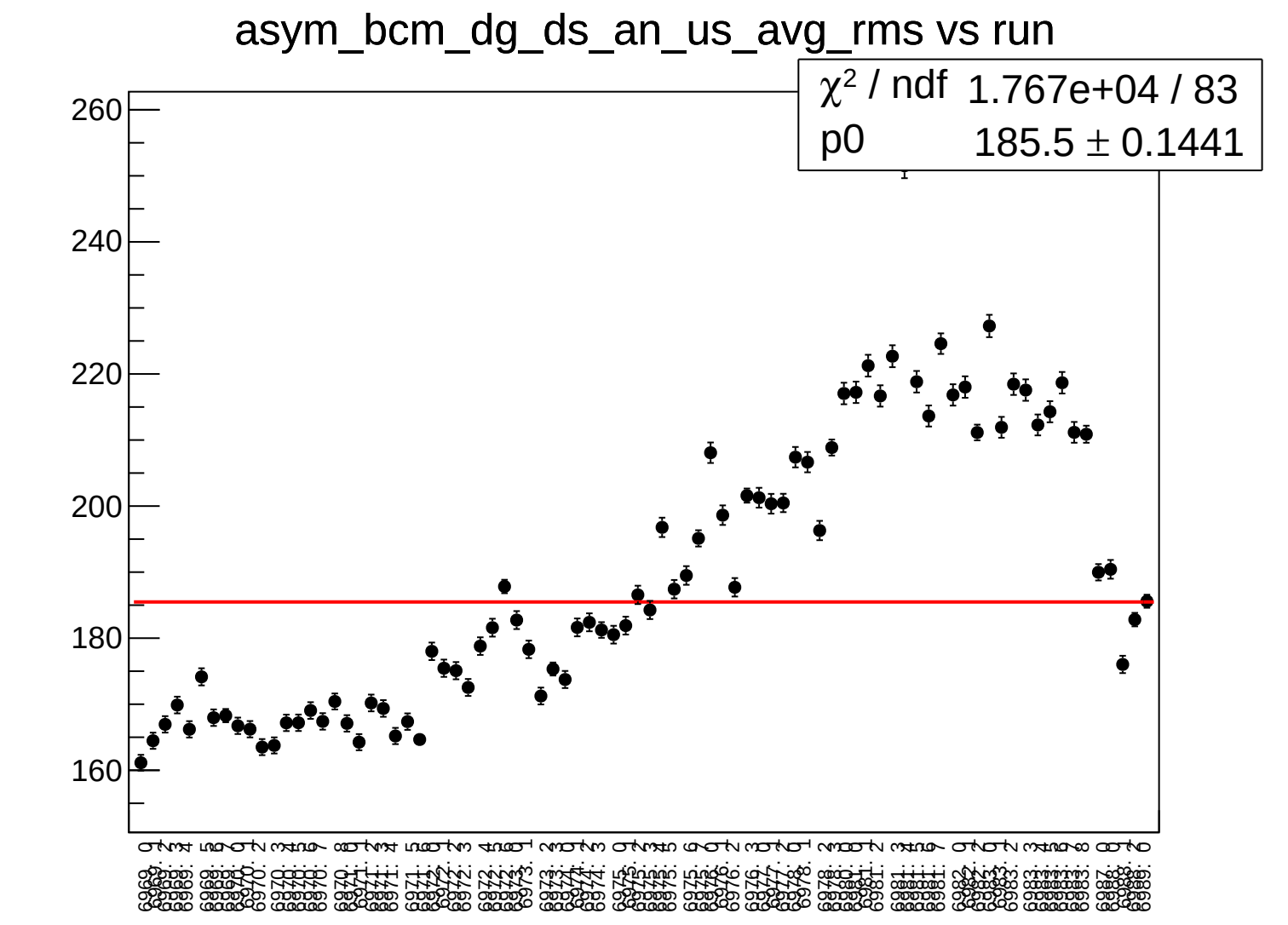

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 61.86 / 83
p0 20.5 ± 24.33
pull
Entries 84
Mean 248.3
Std Dev 0

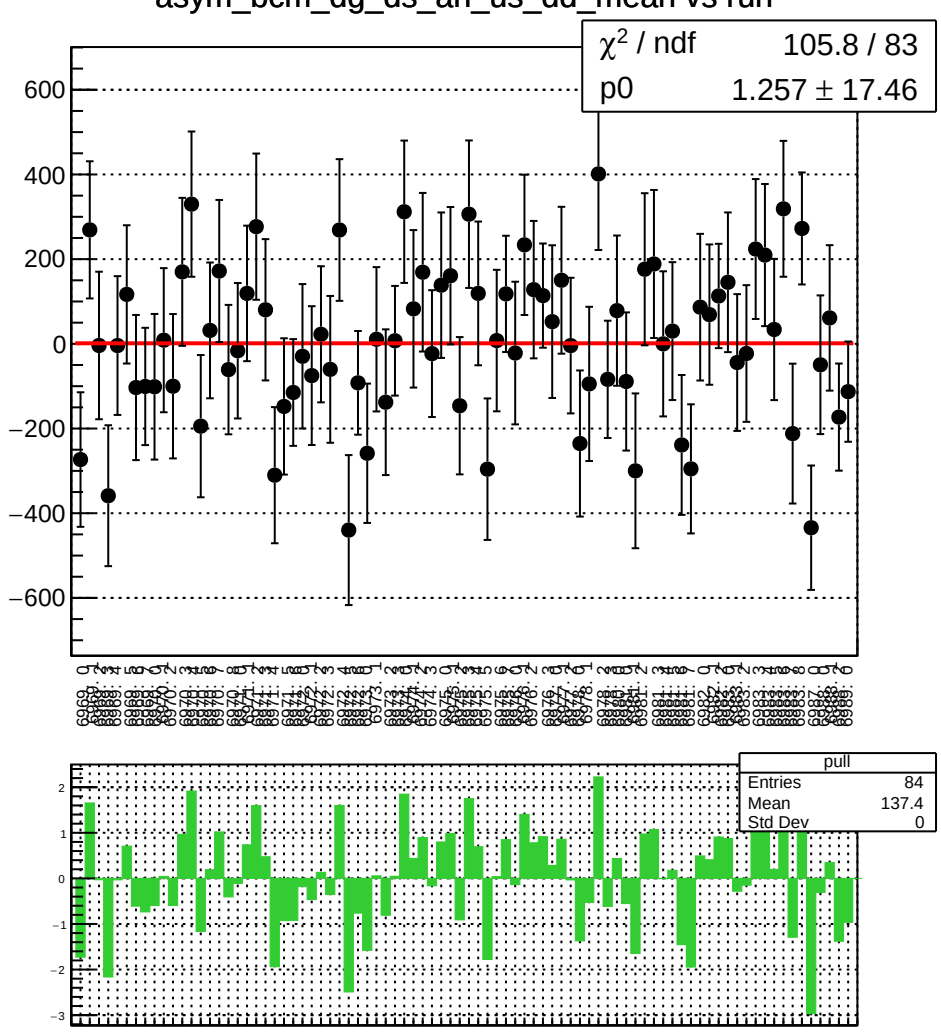

pull1D
Entries 84
Mean −0.007462
Std Dev 0.8581

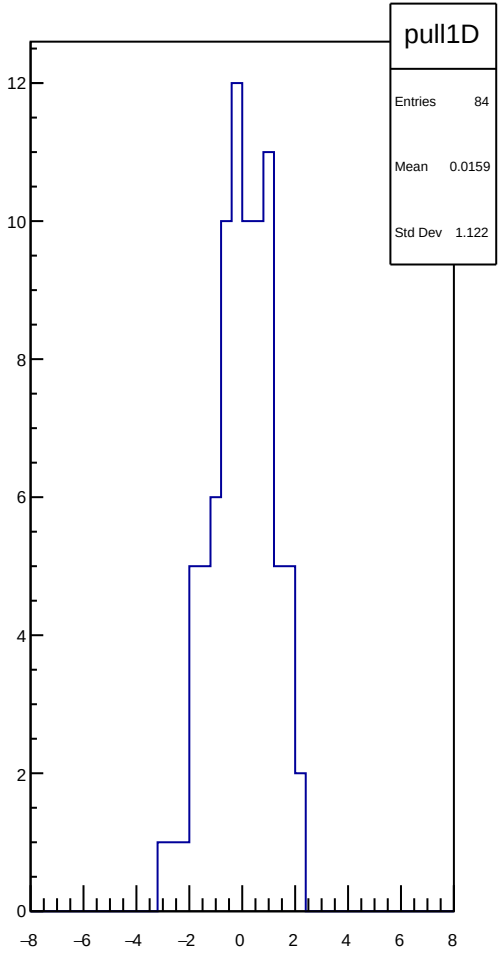

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 516.1 / 83
p0 22.26 ± 0.01721
23.5
23
22.5
22
21.5
21

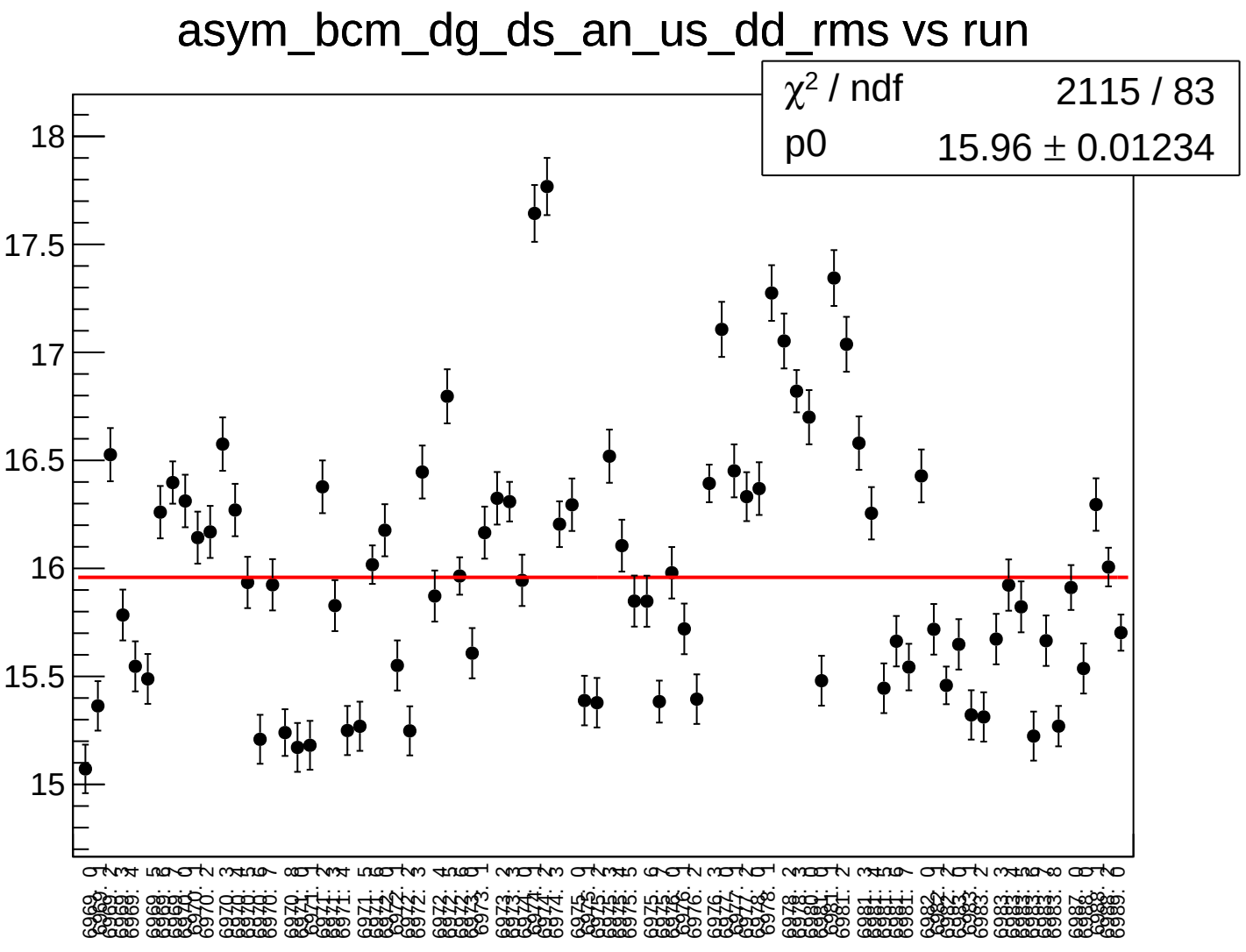

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 23.49 / 83
p0 270.5 ± 203.8
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 150
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

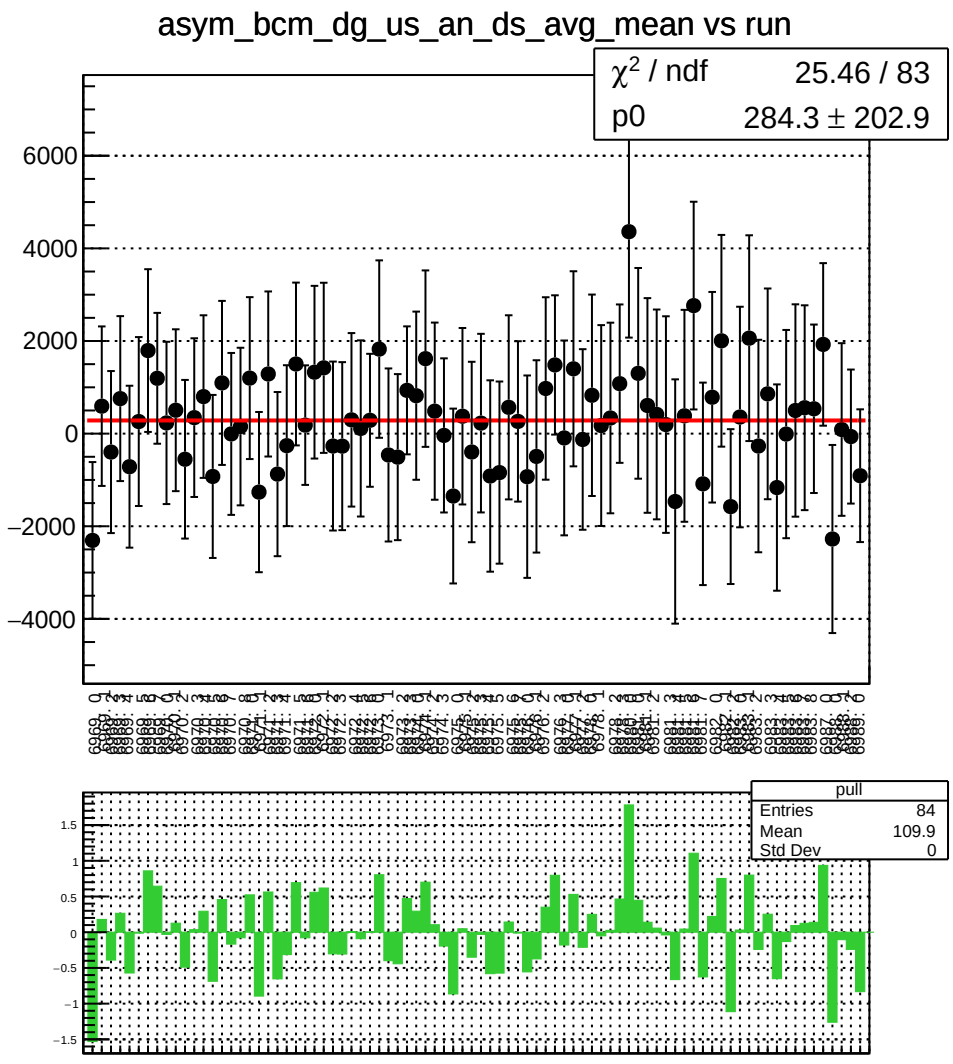

pull1D
Entries 84
Mean 0.008177
Std Dev 0.5288
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

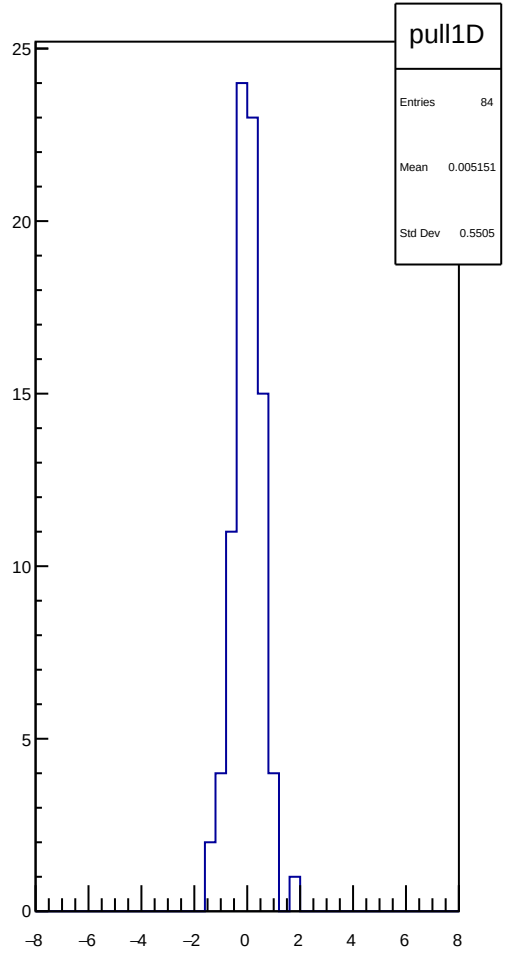

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1.767e+04 / 83
p0 185.5 ± 0.1441
260
240
220
200
180
160

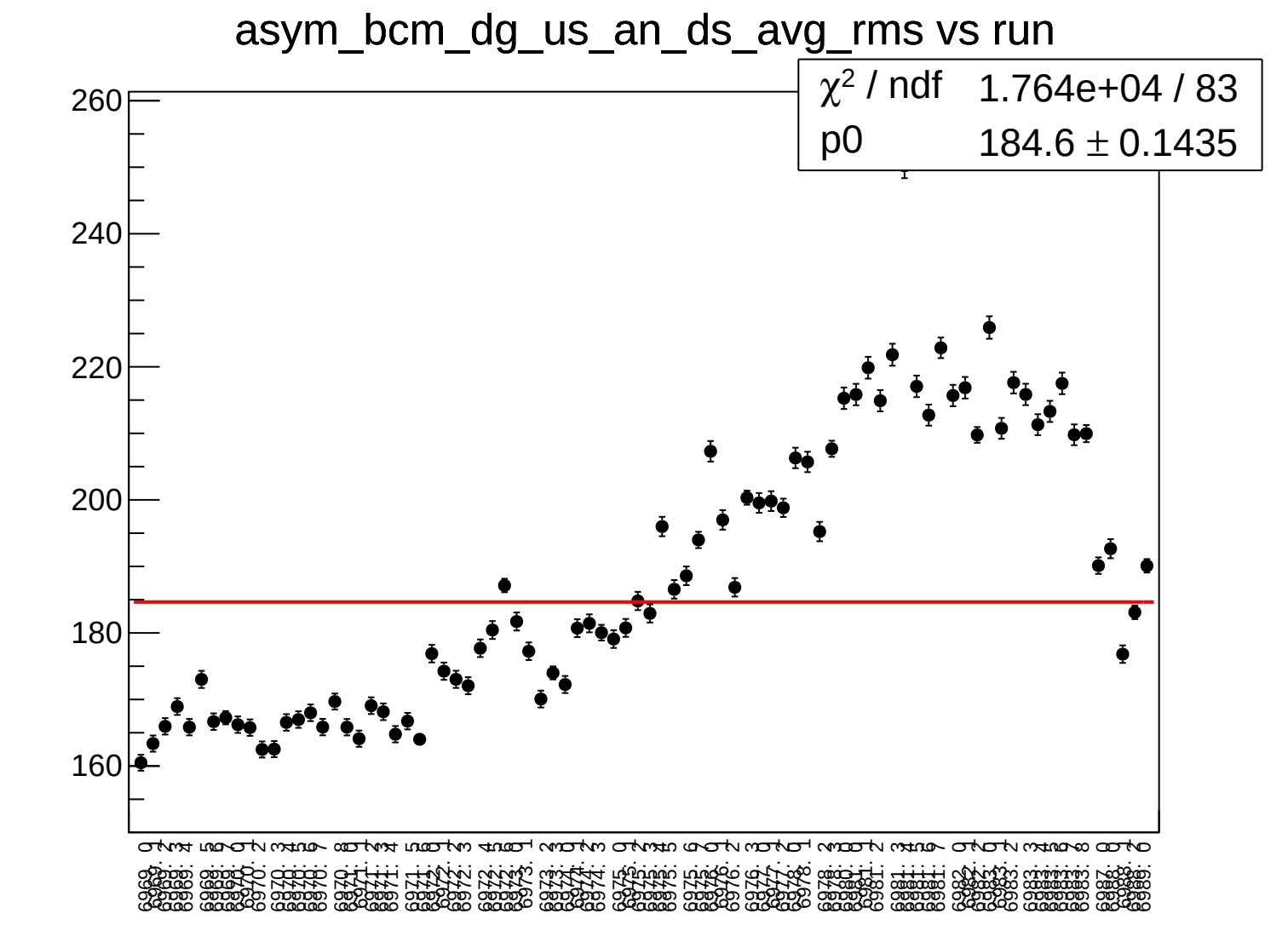

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 105.8 / 83
p0 1.257 ± 17.46
pull
Entries 84
Mean 137.4
Std Dev 0

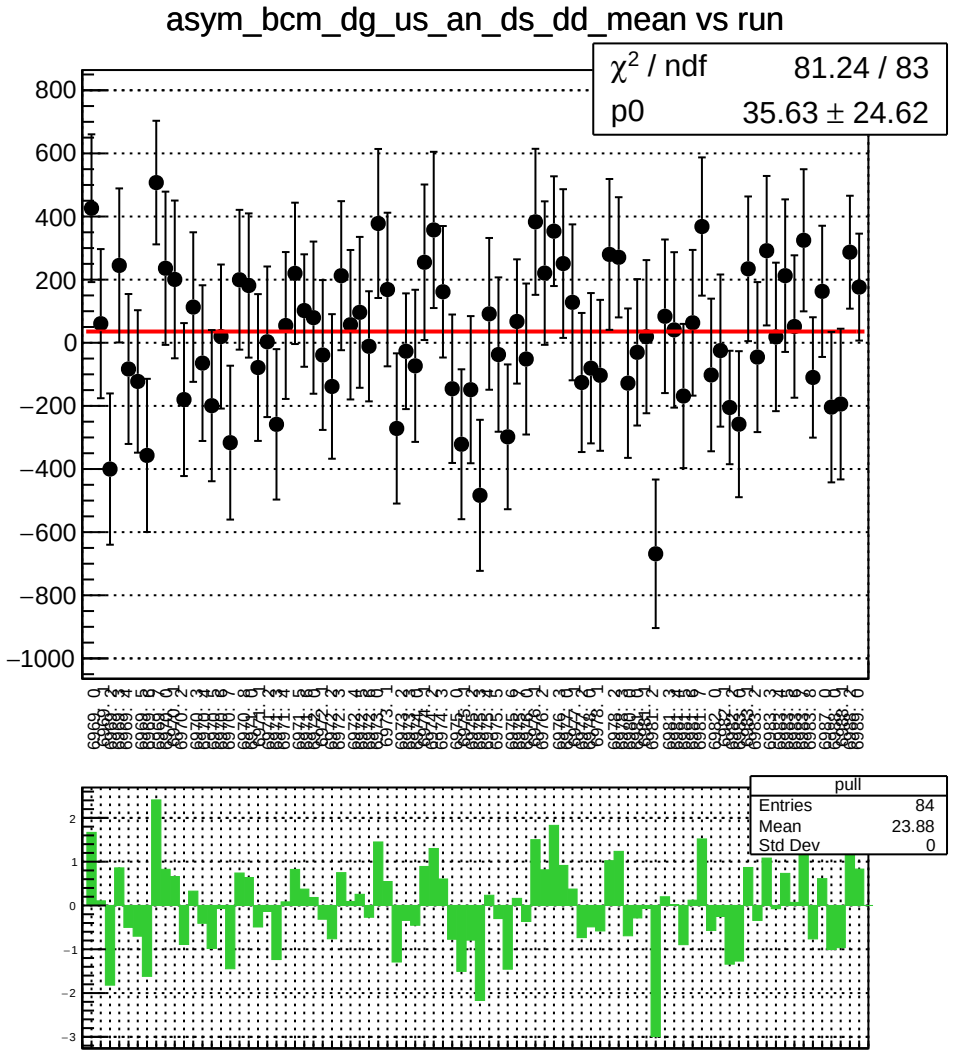

pull1D
Entries 84
Mean 0.0159
Std Dev 1.122

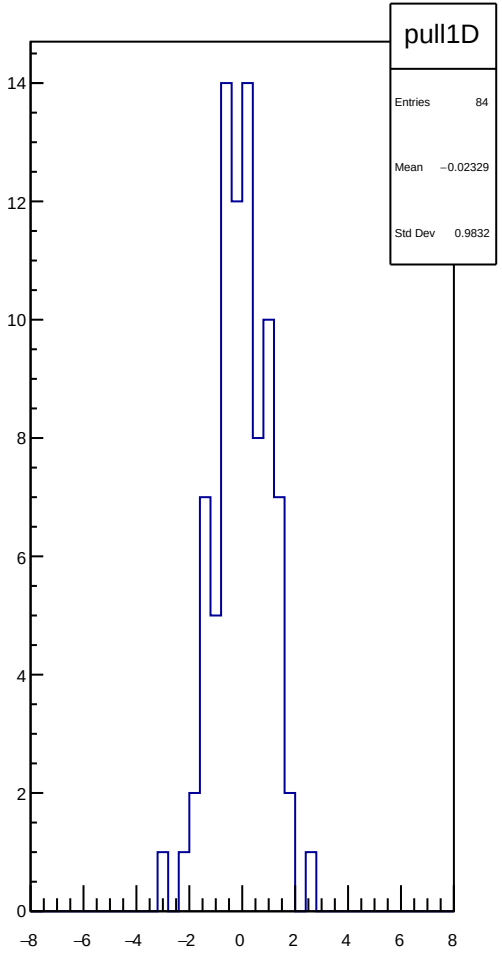

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 2115 / 83
p0 15.96 ± 0.01234
18
17.5
17
16.5
16
15.5
15

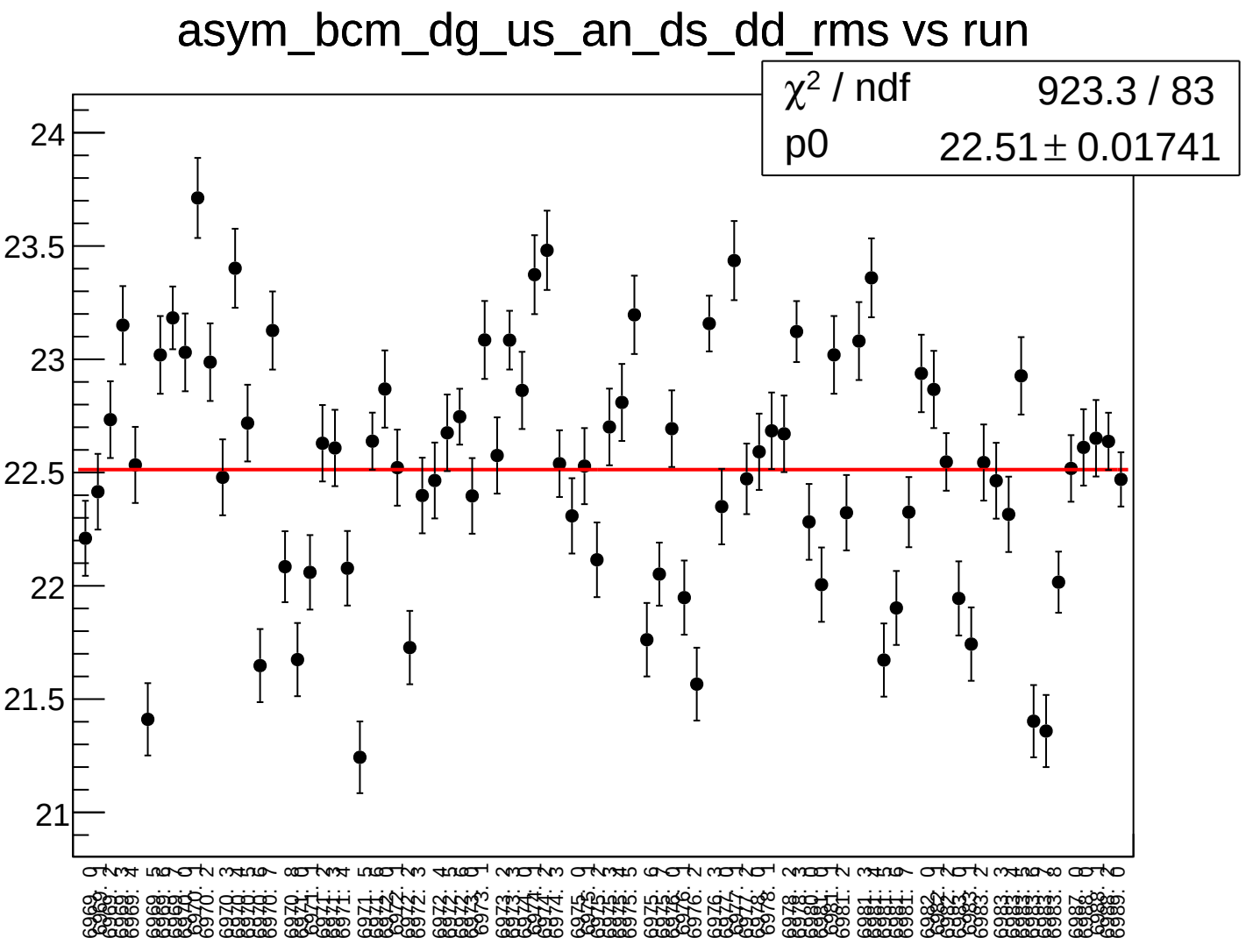

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 25.46 / 83
p0 284.3 ± 202.9
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 109.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

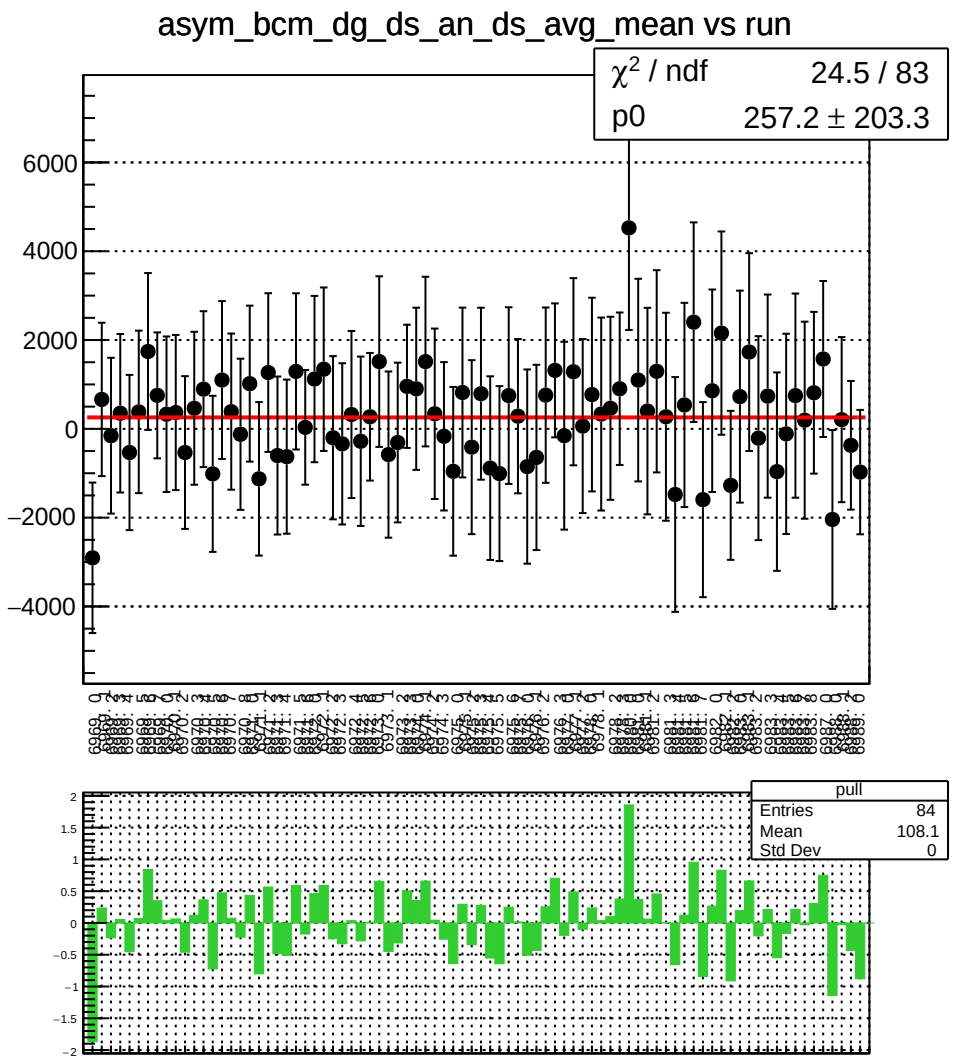

pull1D
Entries 84
Mean 0.005151
Std Dev 0.5505
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

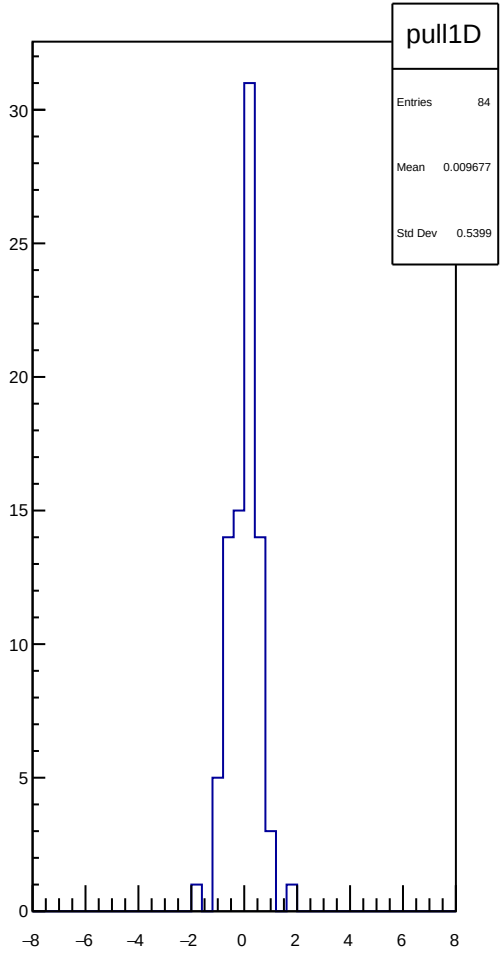

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.764e+04 / 83
p0 184.6 ± 0.1435
260
240
220
200
180
160

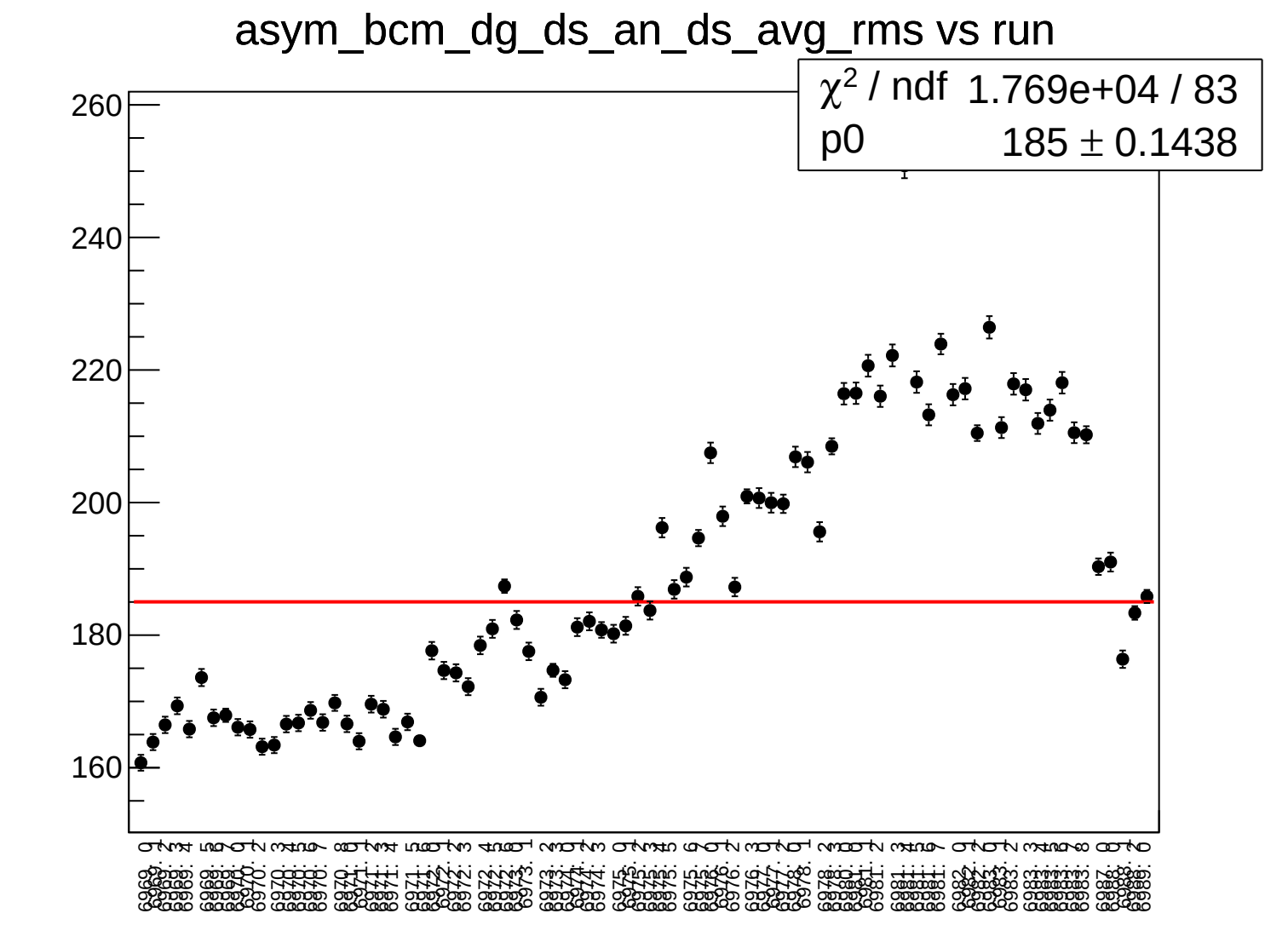

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 81.24 / 83
p0 35.63 ± 24.62
pull
Entries 84
Mean 23.88
Std Dev 0

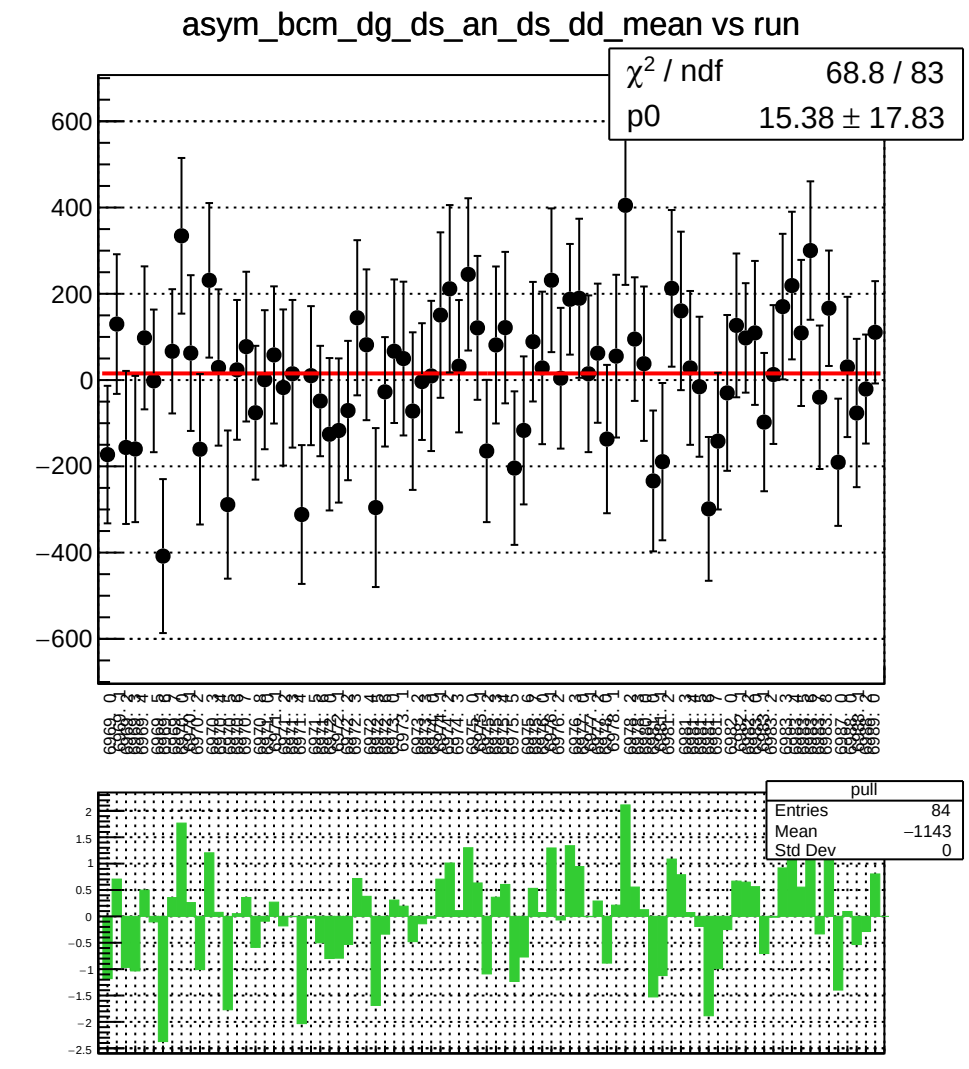

pull1D
Entries 84
Mean −0.02329
Std Dev 0.9832

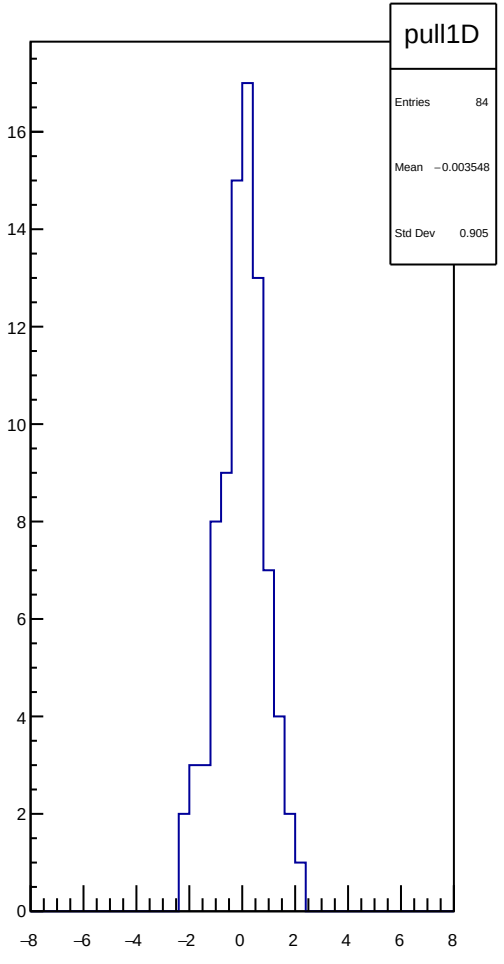

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 923.3 / 83
p0 22.51 ± 0.01741
24
23.5
23
22.5
22
21.5
21

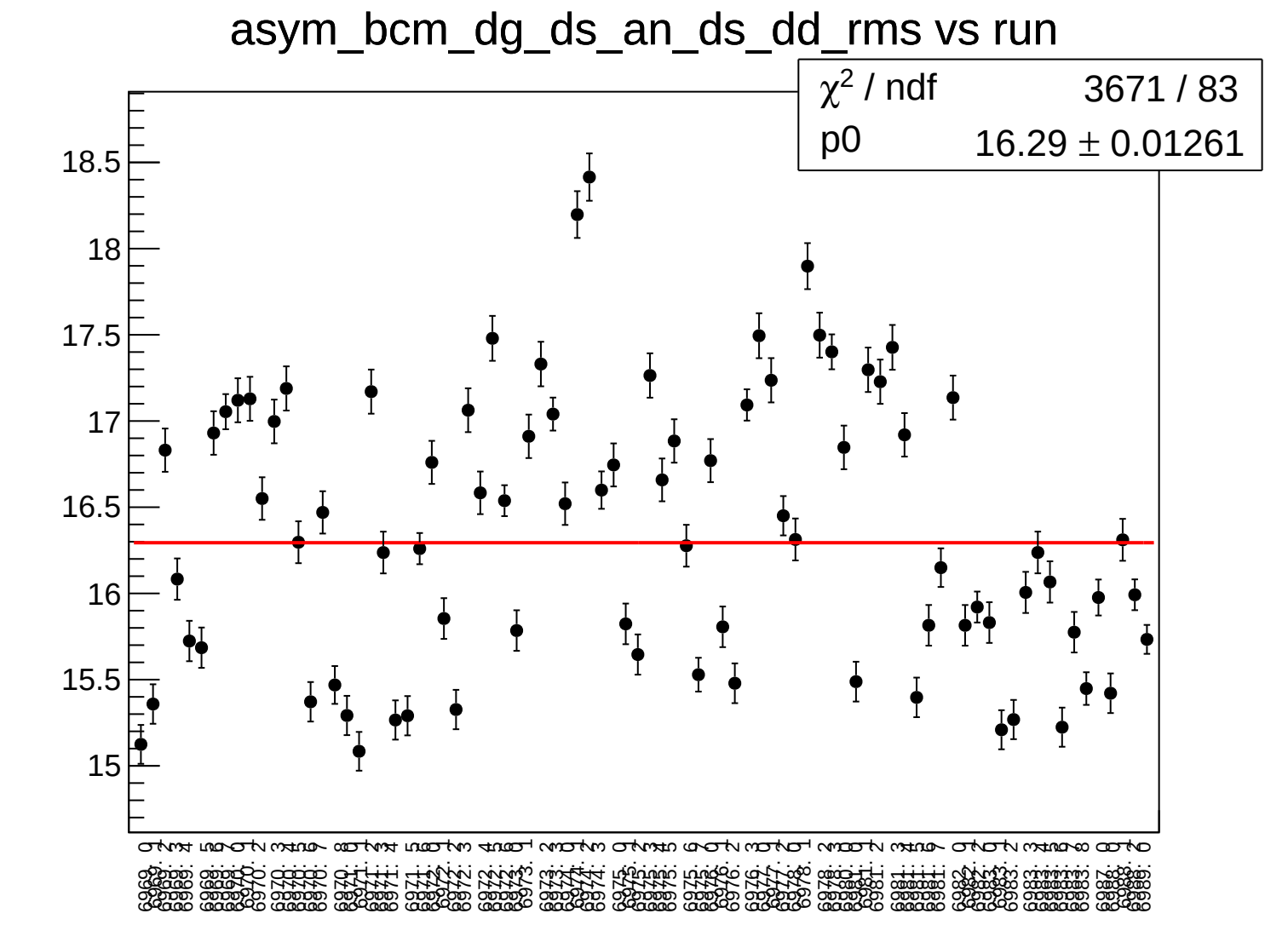

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 24.5 / 83
p0 257.2 ± 203.3
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 108.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

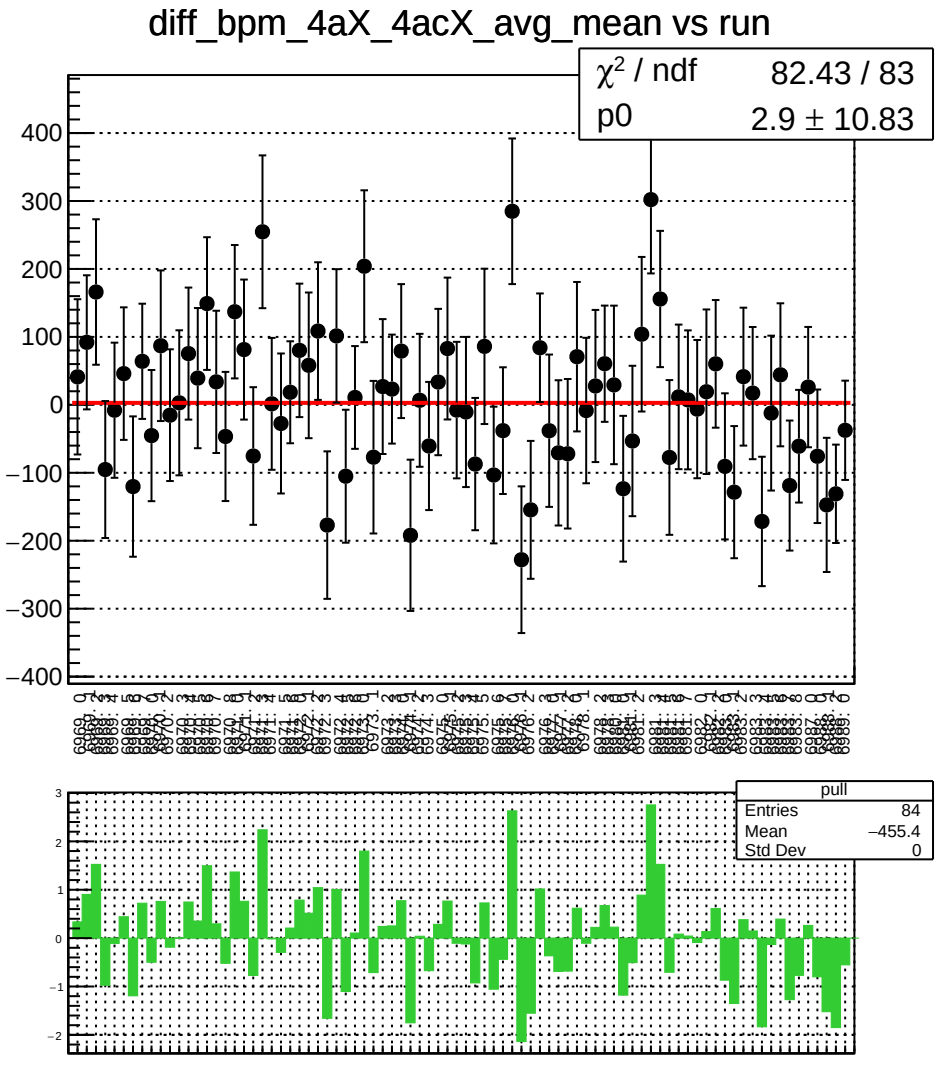

pull1D
Entries 84
Mean 0.009677
Std Dev 0.5399
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

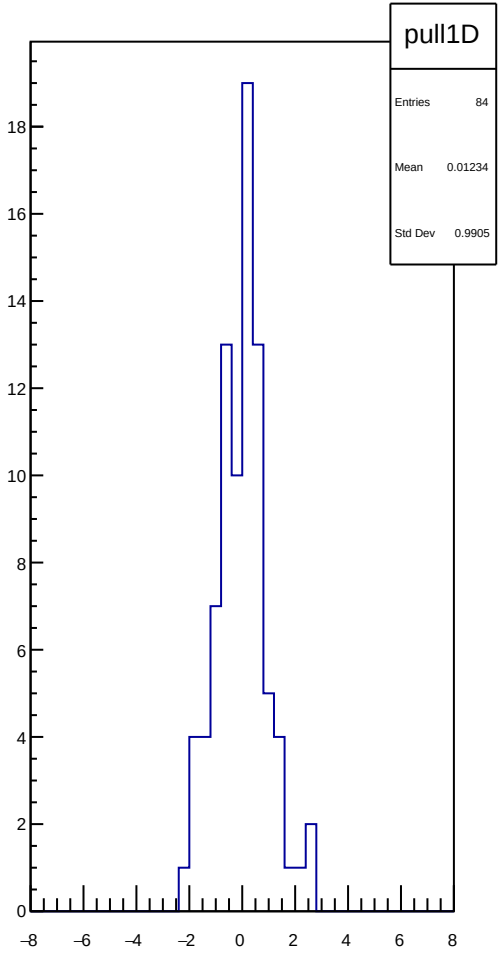

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.769e+04 / 83
p0 185 ± 0.1438
260
240
220
200
180
160

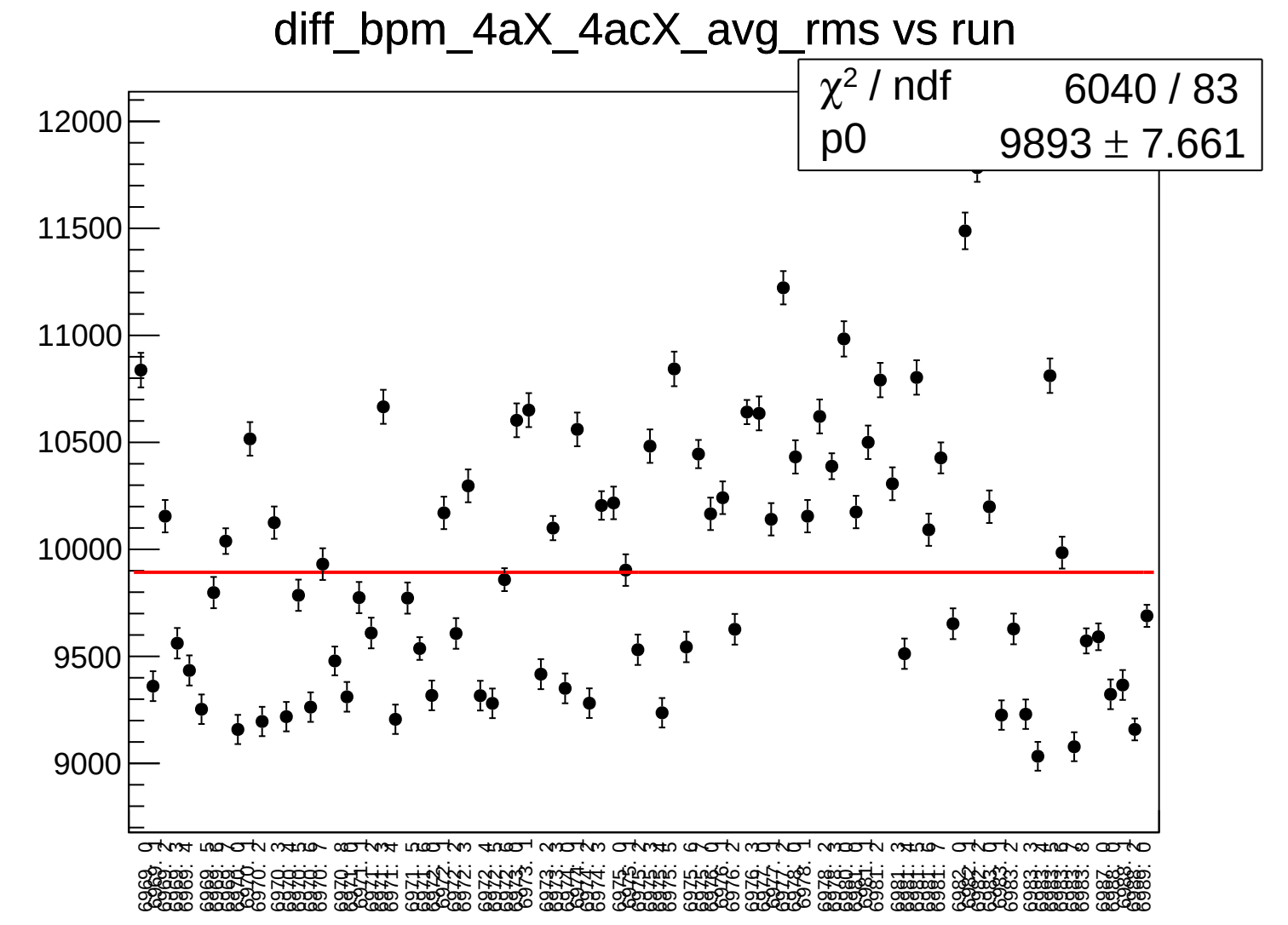

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 68.8 / 83
p0 15.38 ± 17.83
pull
Entries 84
Mean −1143
Std Dev 0

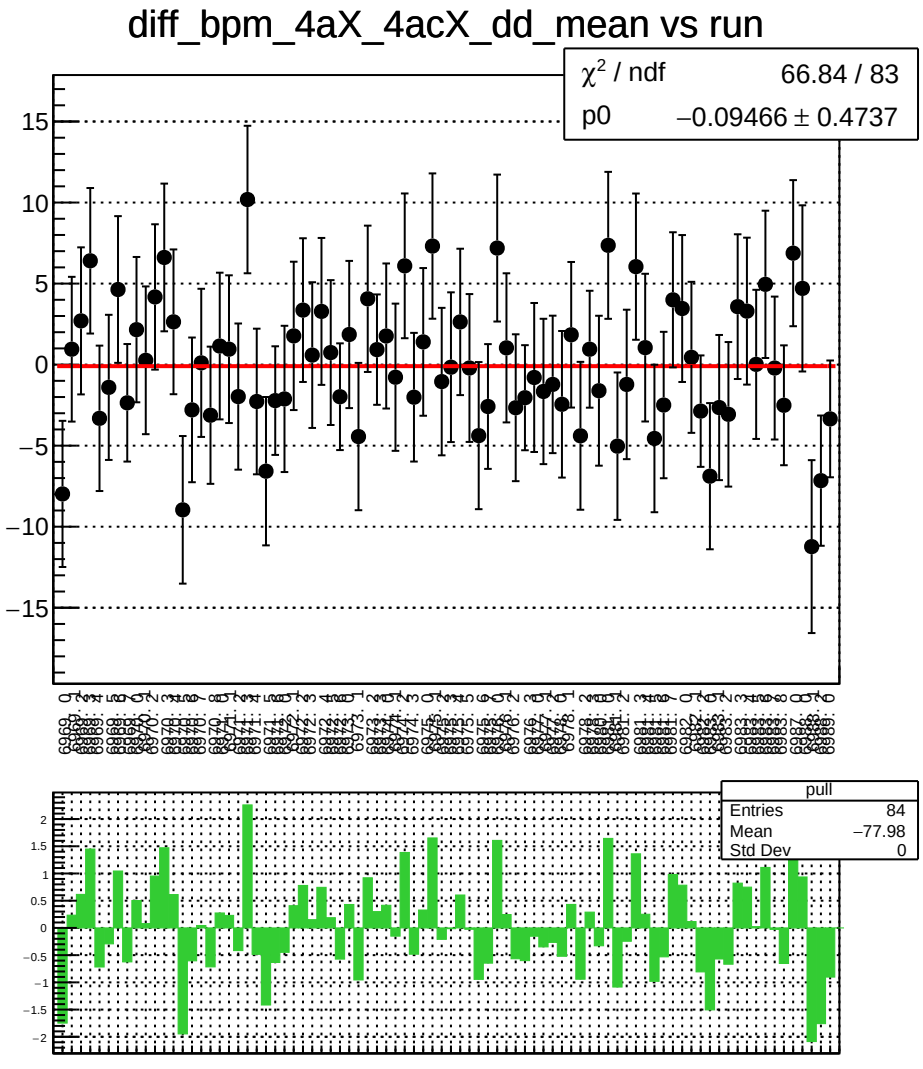

pull1D
Entries 84
Mean −0.003548
Std Dev 0.905

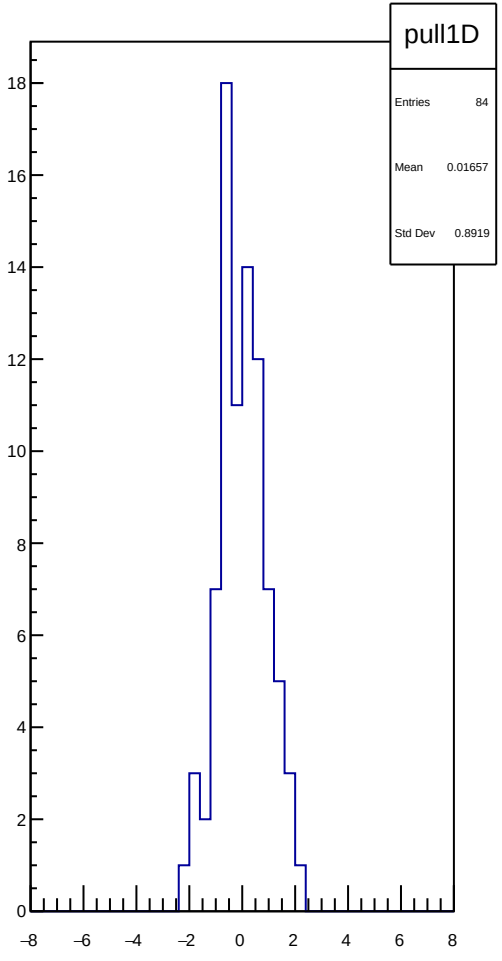

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 3671 / 83
p0 16.29 ± 0.01261
18.5
18
17.5
17
16.5
16
15.5
15

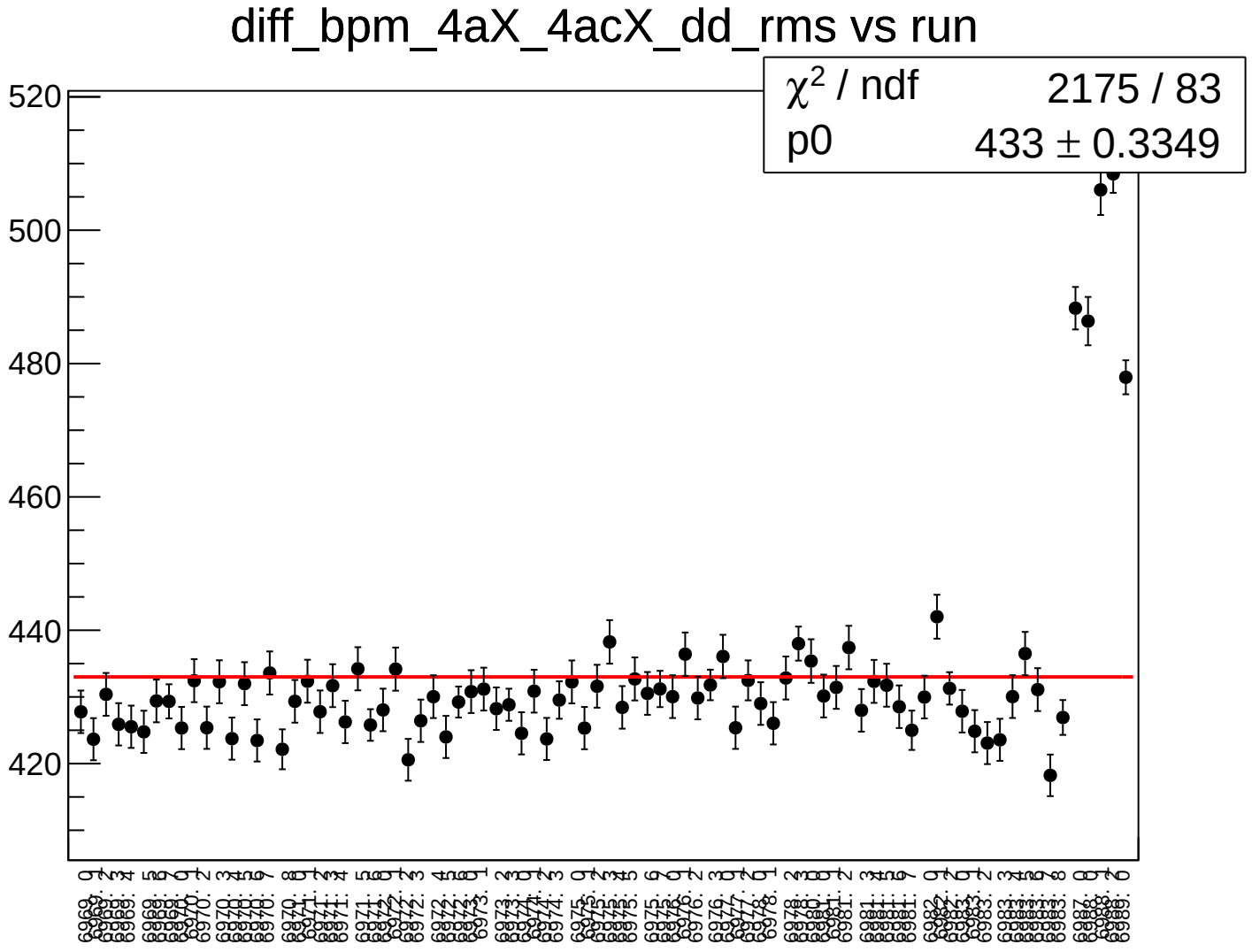

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 82.43 / 83
p0 2.9 ± 10.83
pull
Entries 84
Mean −455.4
Std Dev 0

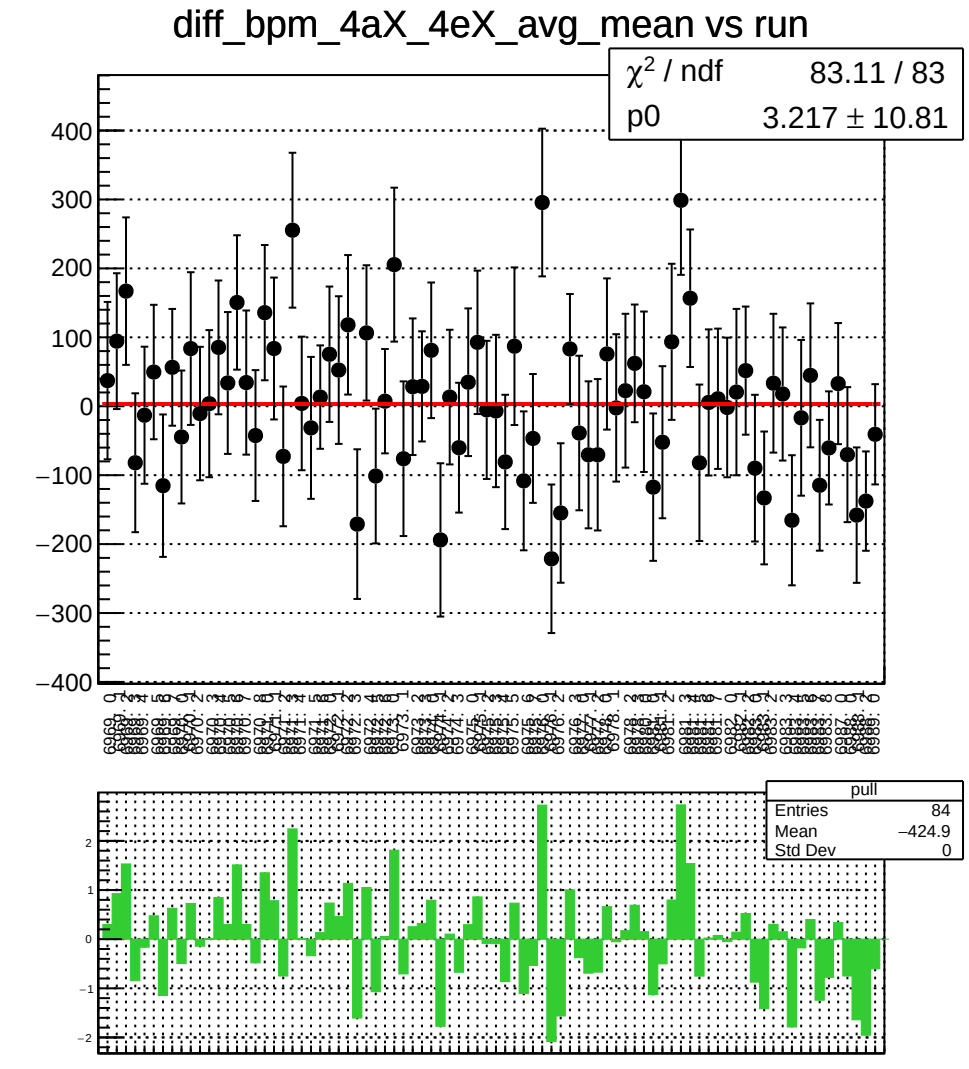

pull1D
Entries 84
Mean 0.01234
Std Dev 0.9905

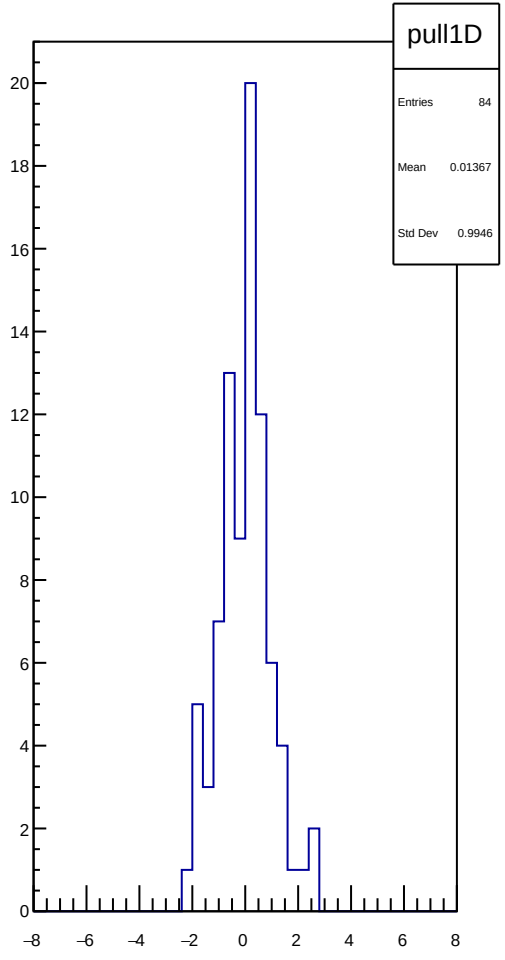

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 6040 / 83
p0 9893 ± 7.661
12000
11500
11000
10500
10000
9500
9000

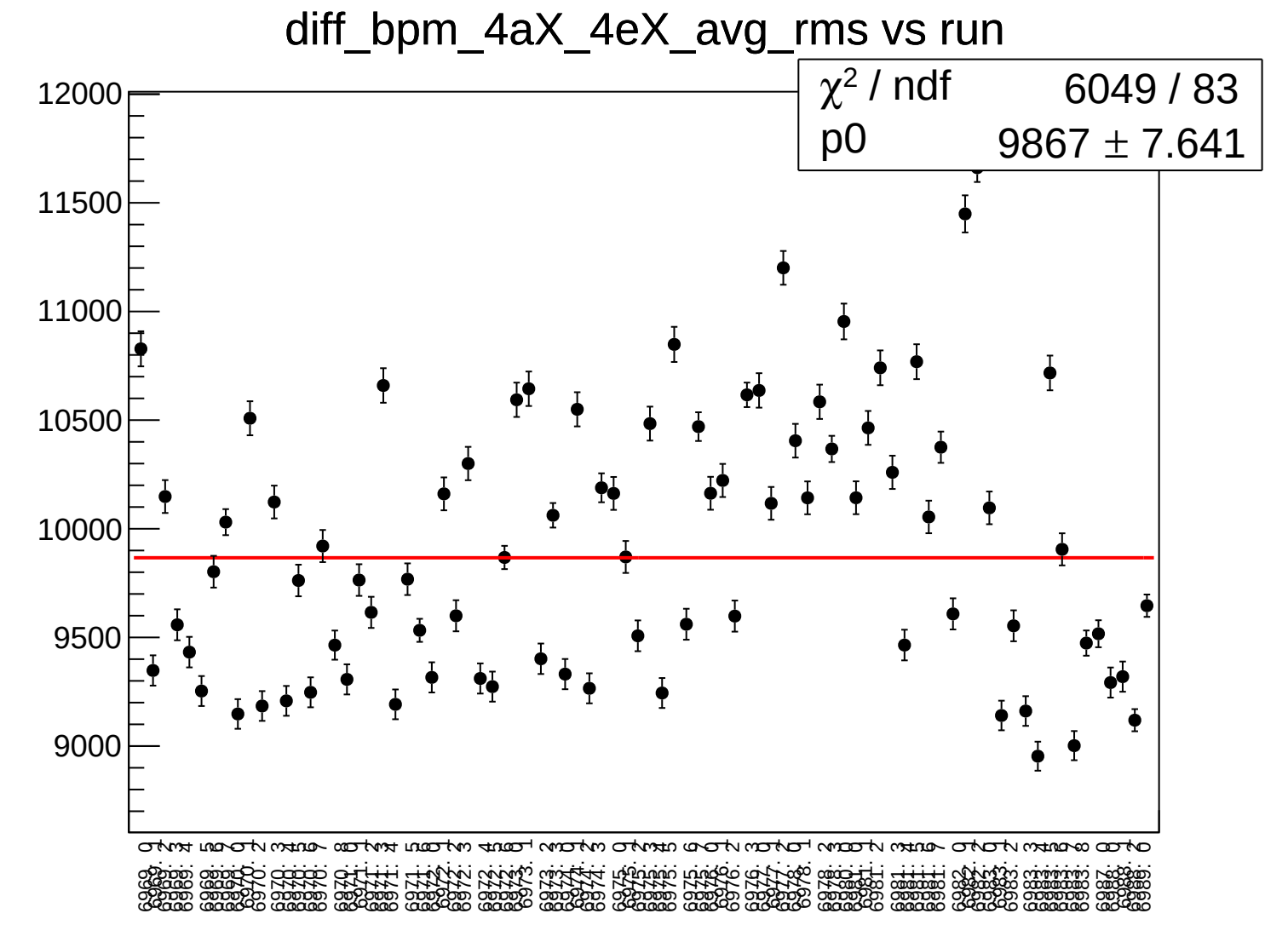

diff_bpm_4aX_4acX_dd_mean vs run
χ^2 / ndf 66.84 / 83
p0 −0.09466 ± 0.4737
pull
Entries 84
Mean −77.98
Std Dev 0

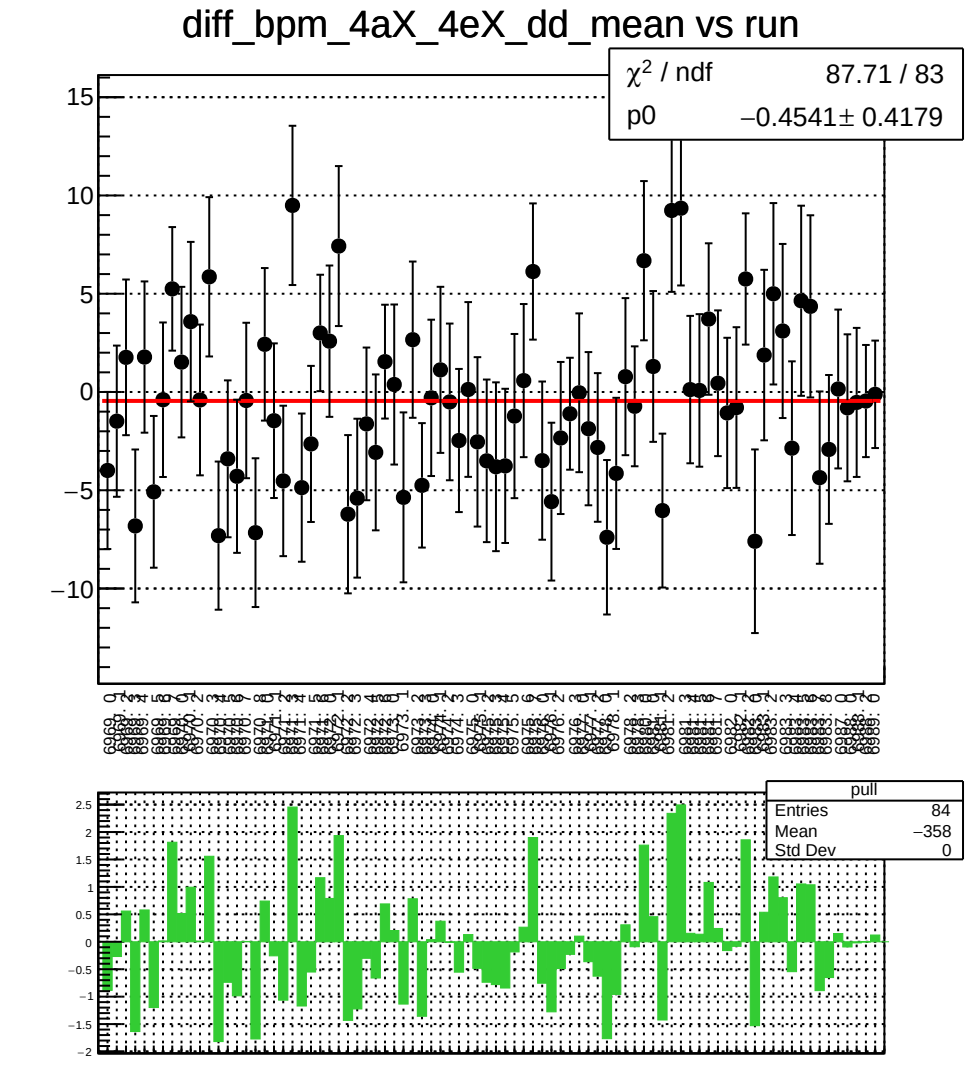

pull1D
Entries 84
Mean 0.01657
Std Dev 0.8919

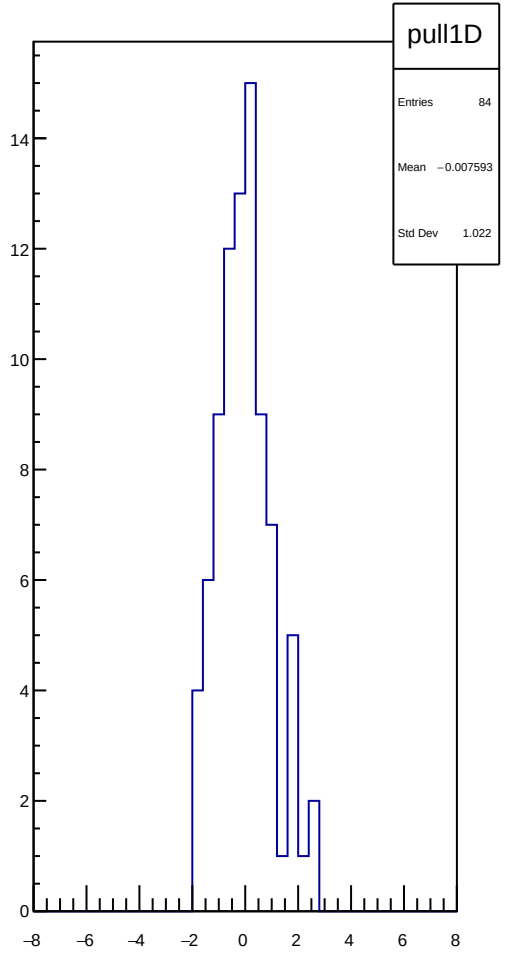

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 2175 / 83
p0 433 ± 0.3349
520
500
480
460
440
420

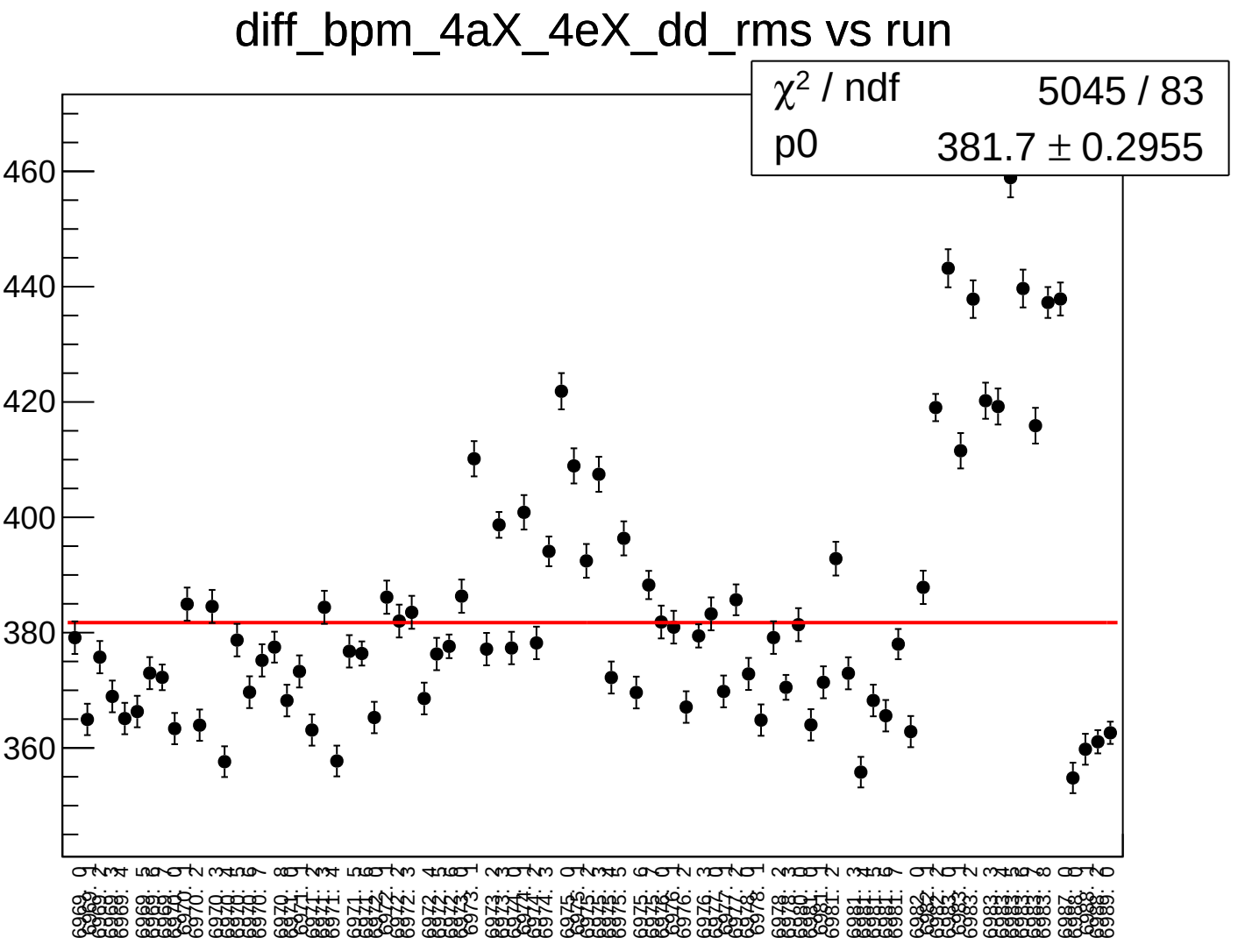

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 83.11 / 83
p0 3.217 ± 10.81
pull
Entries 84
Mean −424.9
Std Dev 0

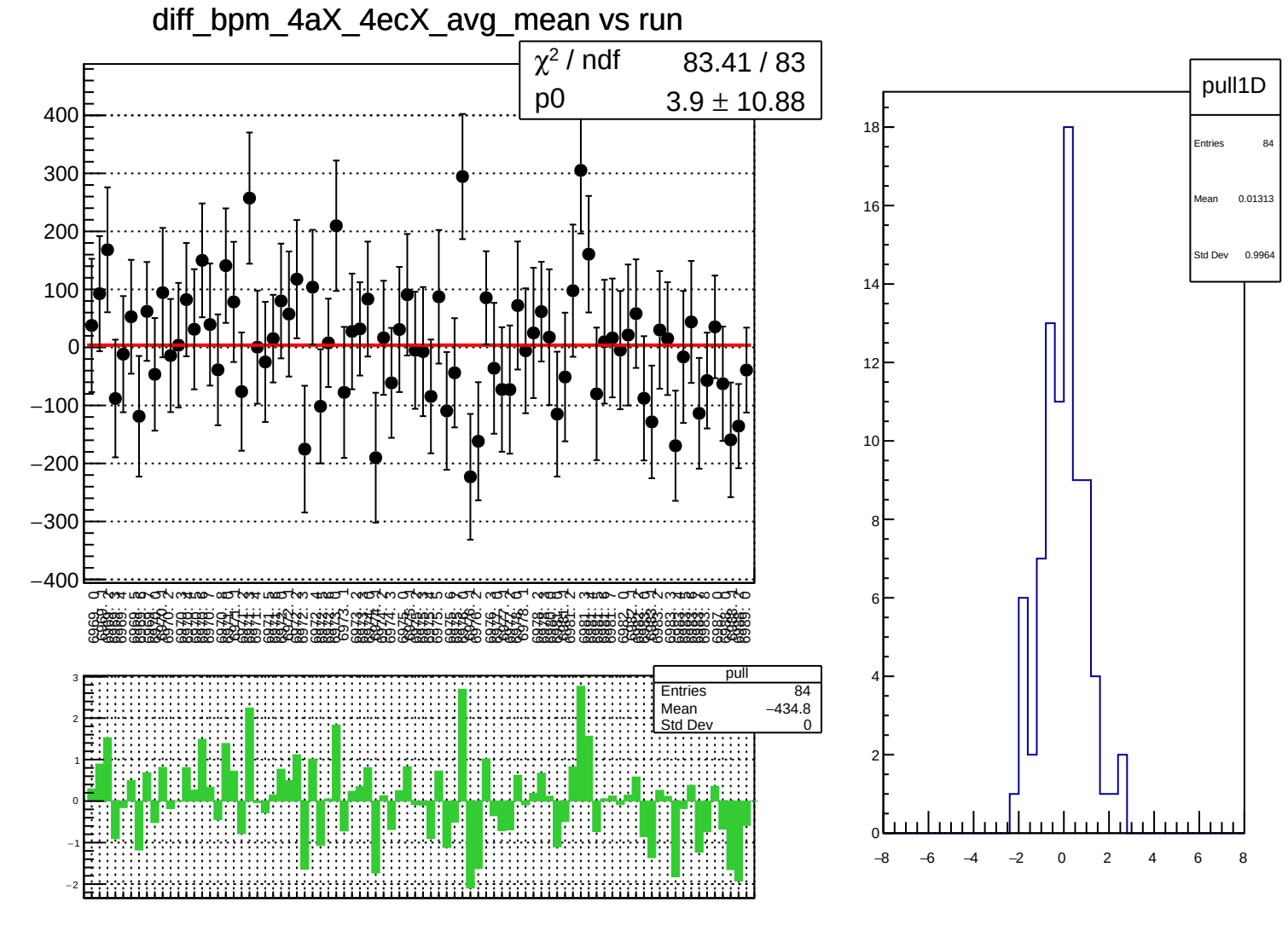

pull1D
Entries 84
Mean 0.01367
Std Dev 0.9946

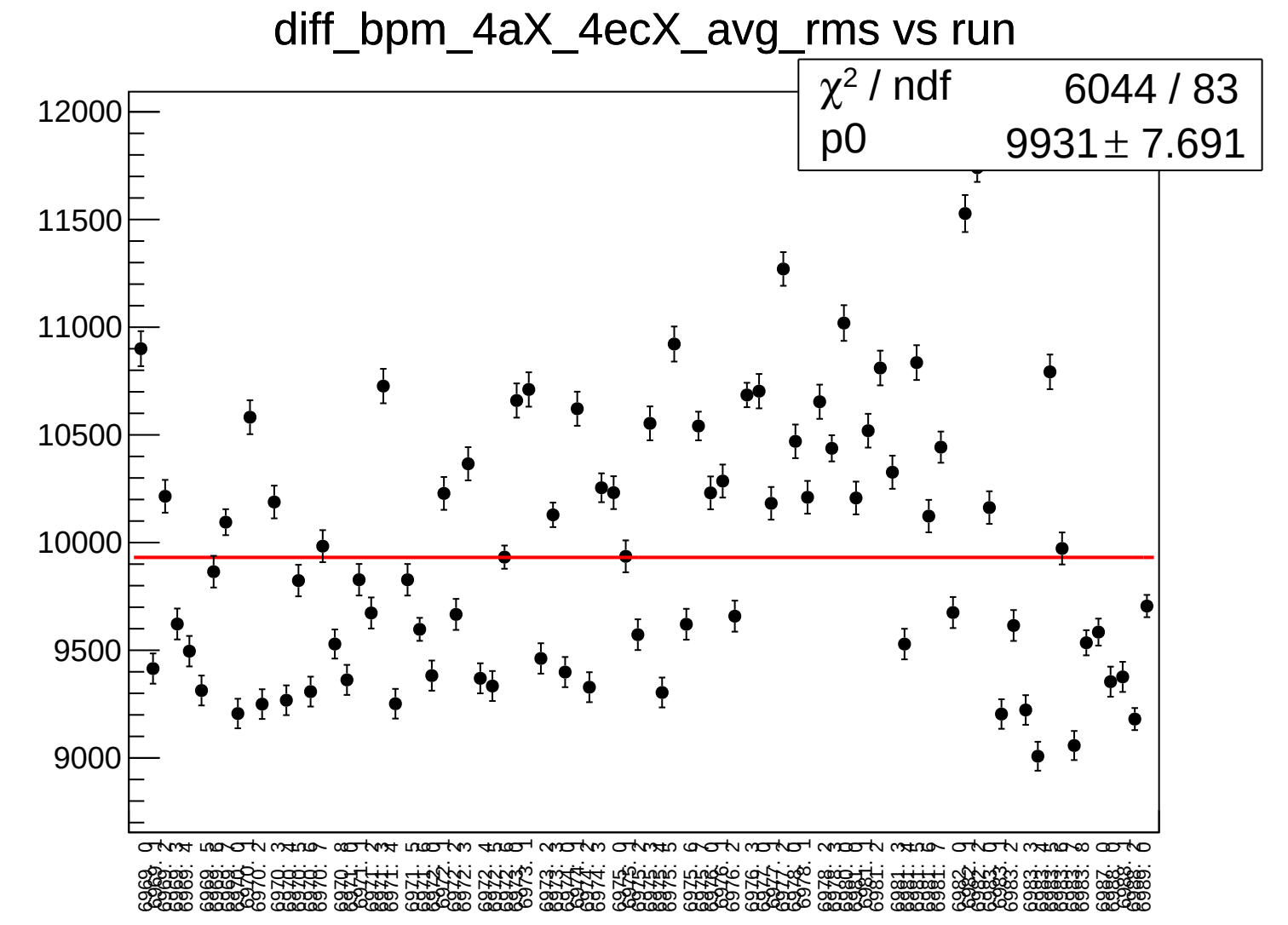

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 6049 / 83
p0 9867 ± 7.641
12000
11500
11000
10500
10000
9500
9000

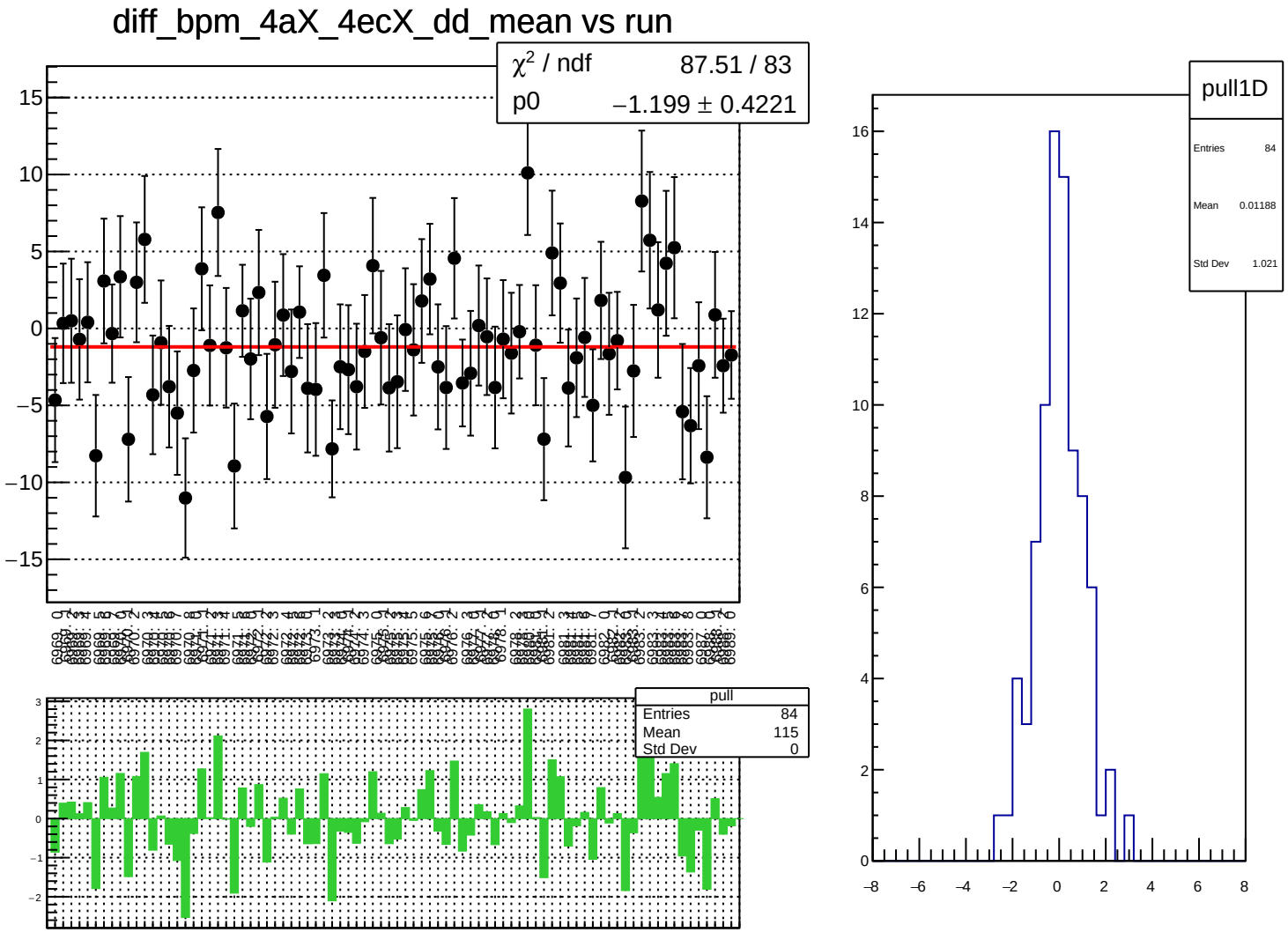

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 87.71 / 83
p0 −0.4541± 0.4179
pull
Entries 84
Mean −358
Std Dev 0

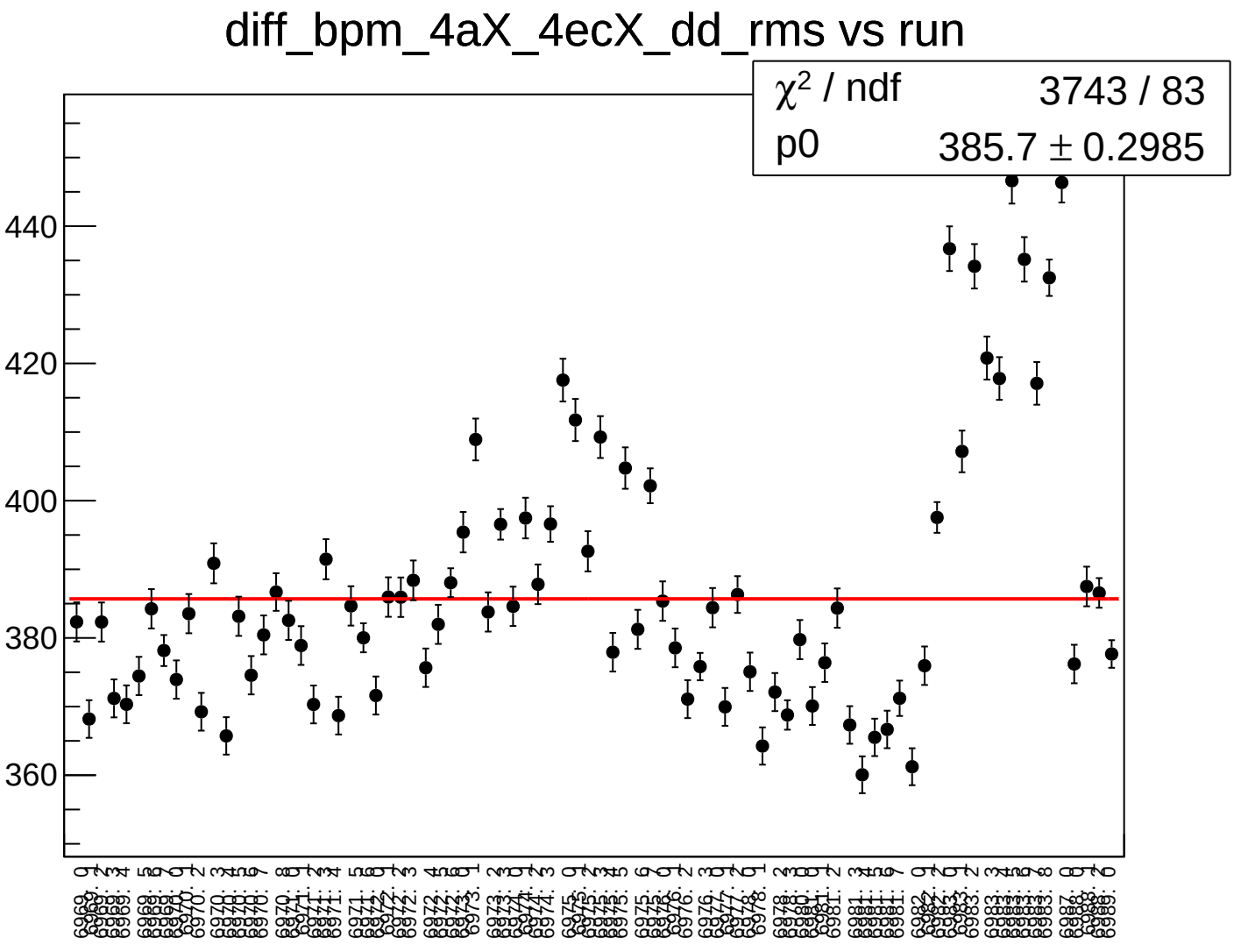

pull1D
Entries 84
Mean −0.007593
Std Dev 1.022

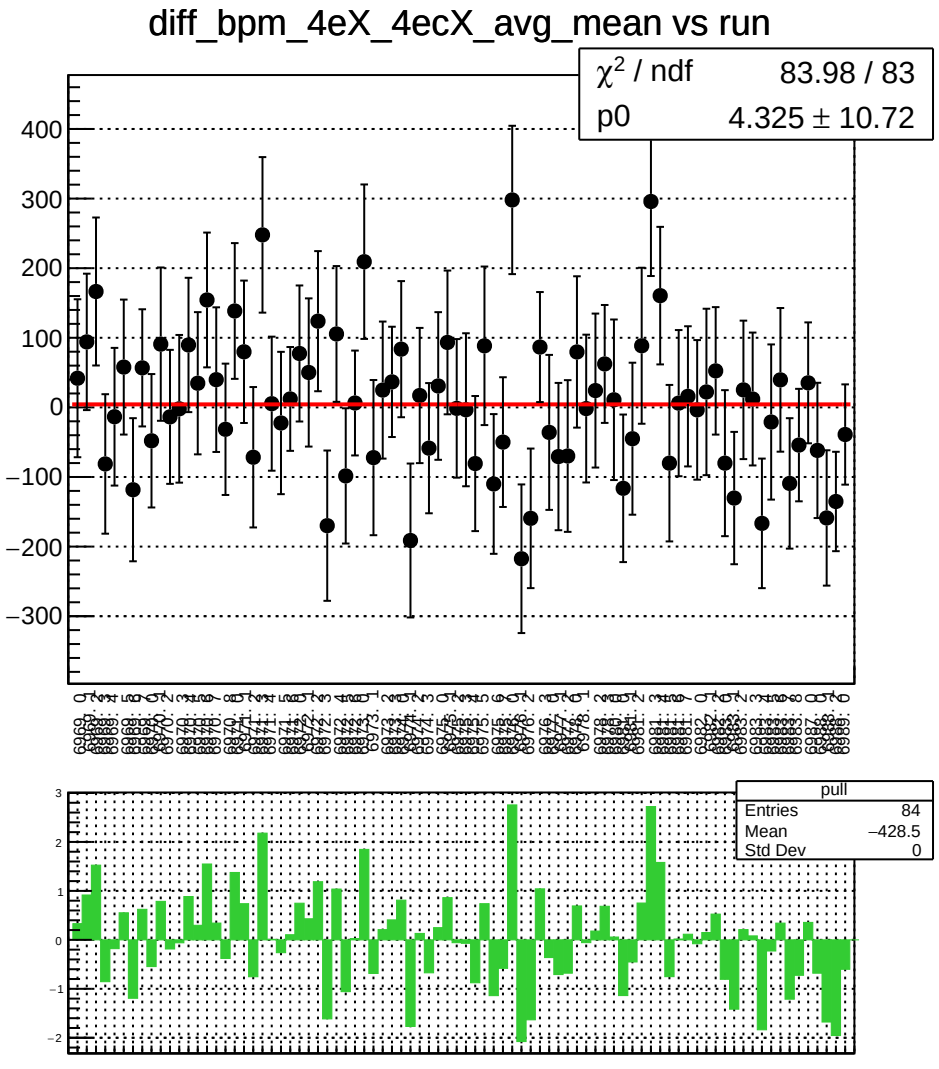

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 5045 / 83
p0 381.7 ± 0.2955
460
440
420
400
380
360

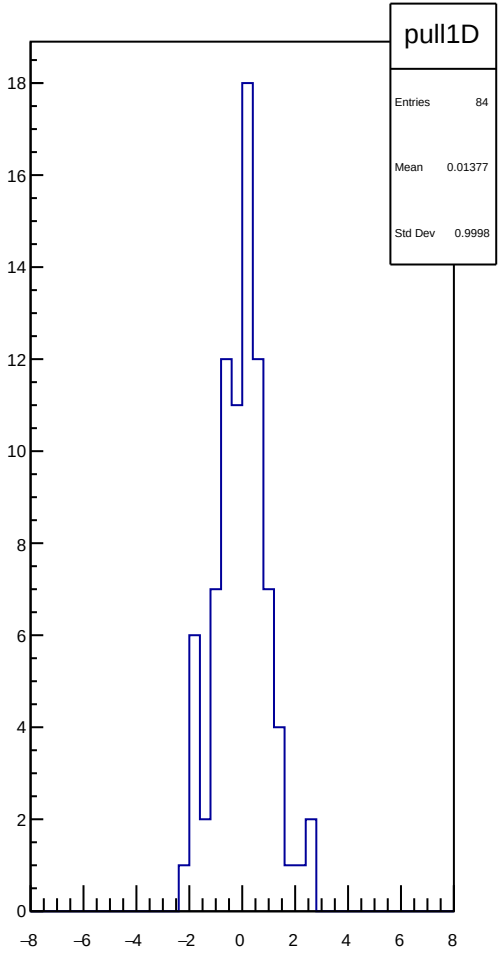

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 83.41 / 83
p0 3.9 ± 10.88
pull
Entries 84
Mean −434.8
Std Dev 0
pull1D
Entries 84
Mean 0.01313
Std Dev 0.9964

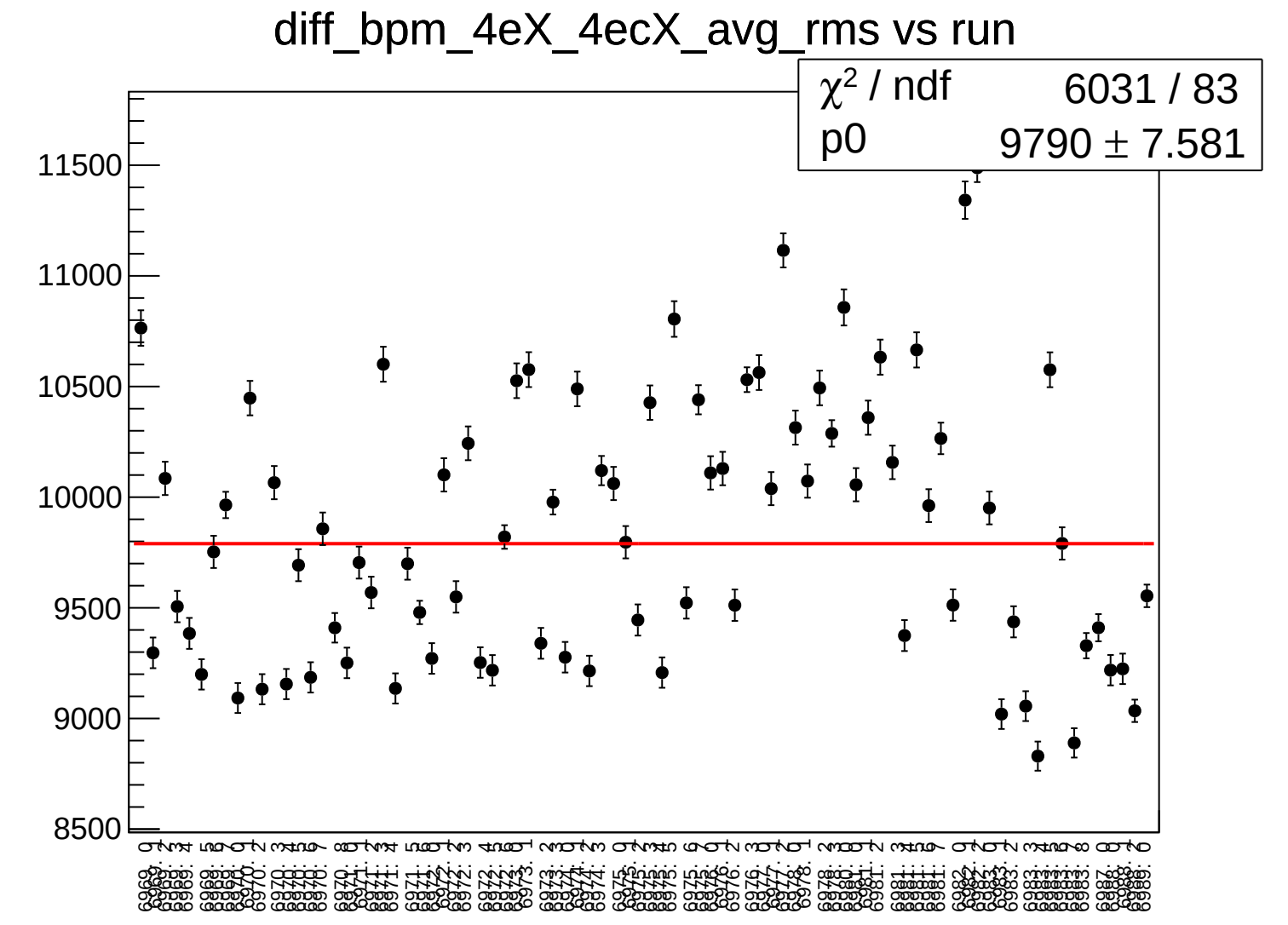

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 6044 / 83
p0 9931 ± 7.691
12000
11500
11000
10500
10000
9500
9000

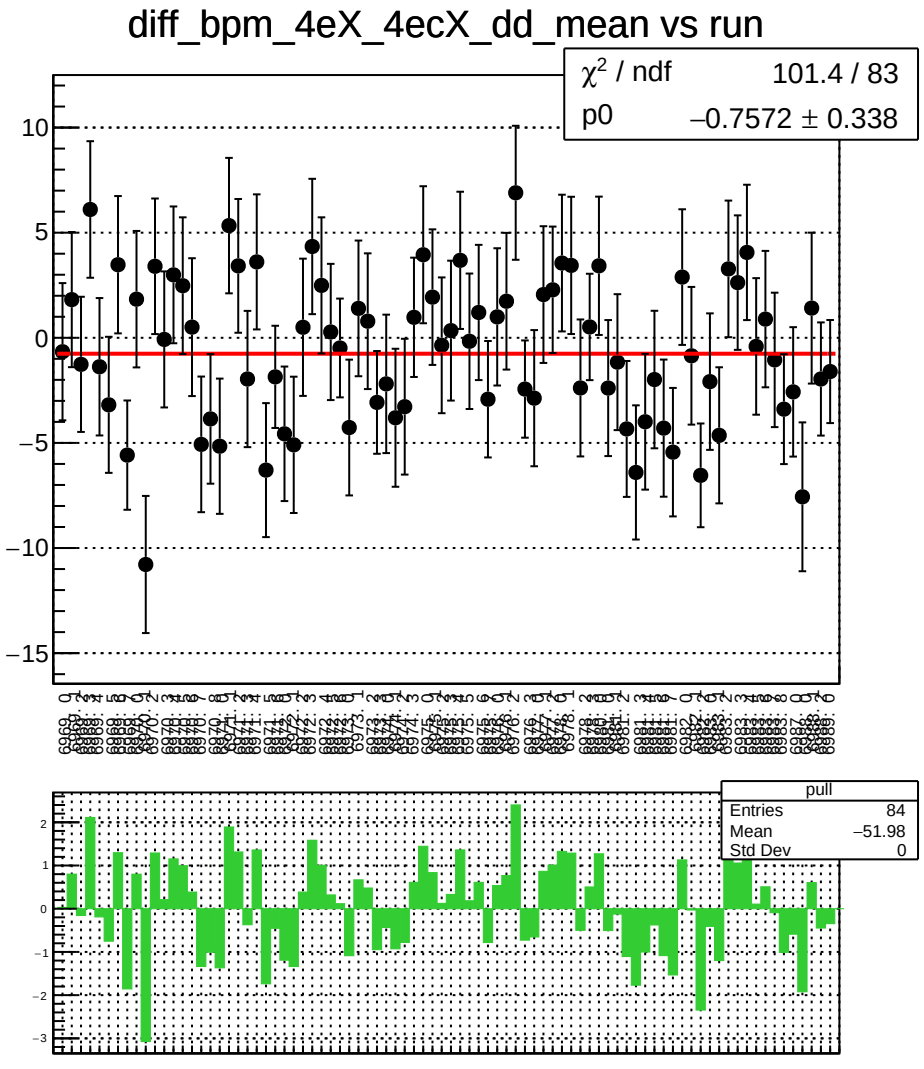

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 87.51 / 83
p0 −1.199 ± 0.4221
pull
Entries 84
Mean 115
Std Dev 0
pull1D
Entries 84
Mean 0.01188
Std Dev 1.021

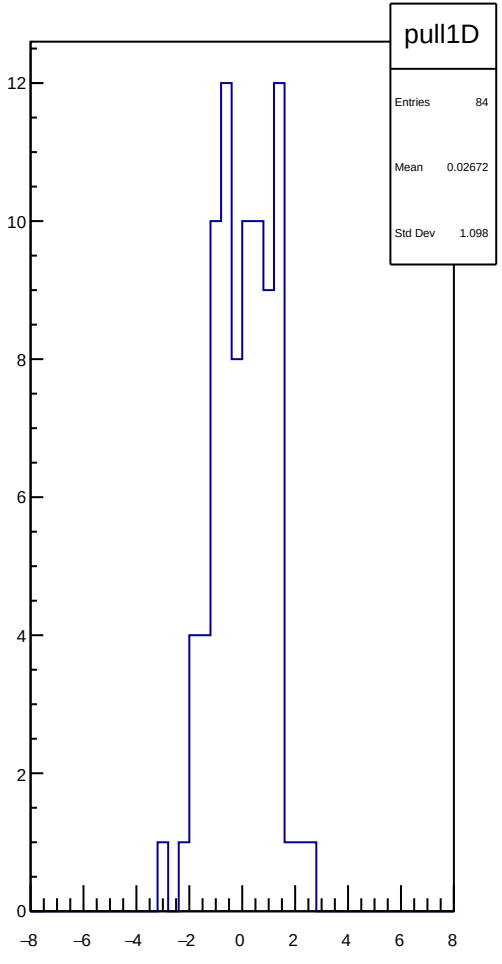

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 3743 / 83
p0 385.7 ± 0.2985
440
420
400
380
360

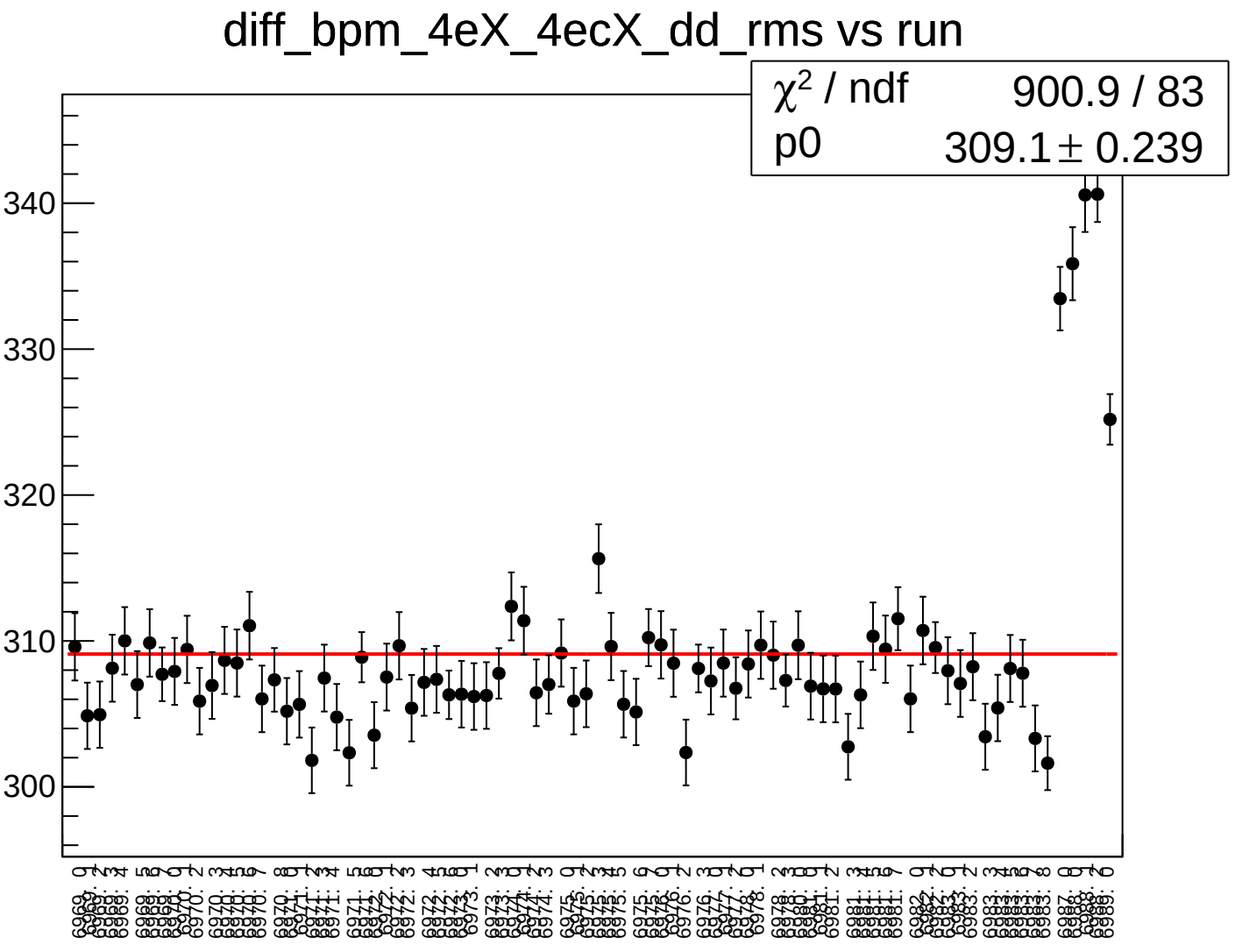

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 83.98 / 83
p0 4.325 ± 10.72
pull
Entries 84
Mean −428.5
Std Dev 0

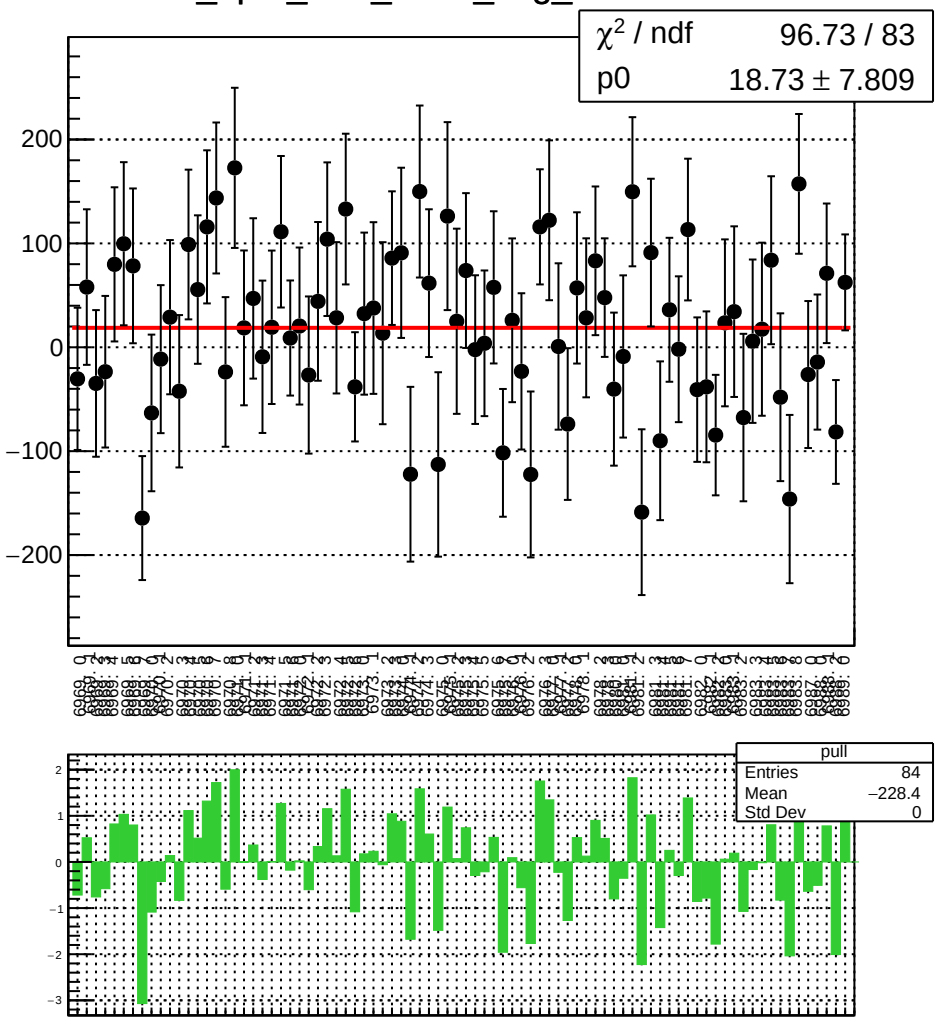

pull1D
Entries 84
Mean 0.01377
Std Dev 0.9998

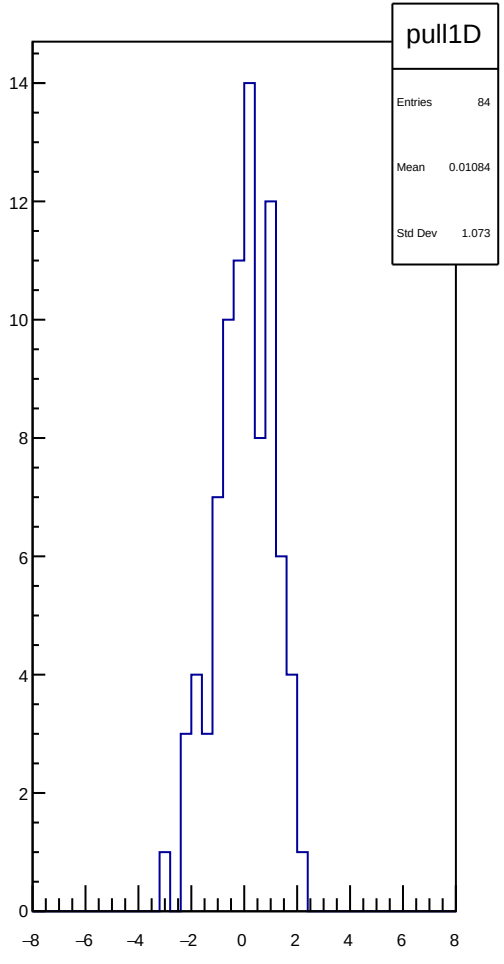

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 6031 / 83
p0 9790 ± 7.581
11500
11000
10500
10000
9500
9000
8500

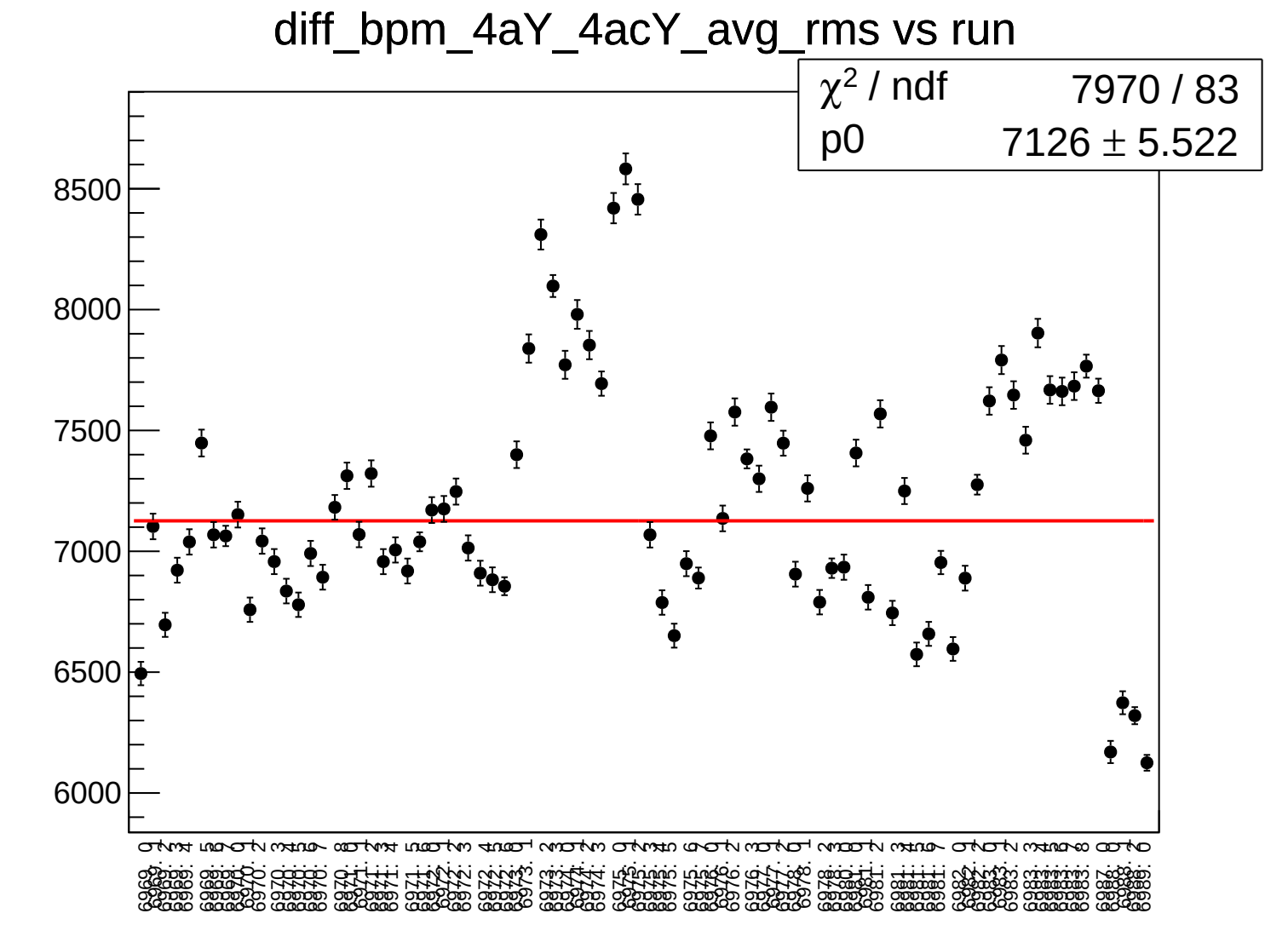

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 101.4 / 83
p0 −0.7572 ± 0.338
pull
Entries 84
Mean −51.98
Std Dev 0

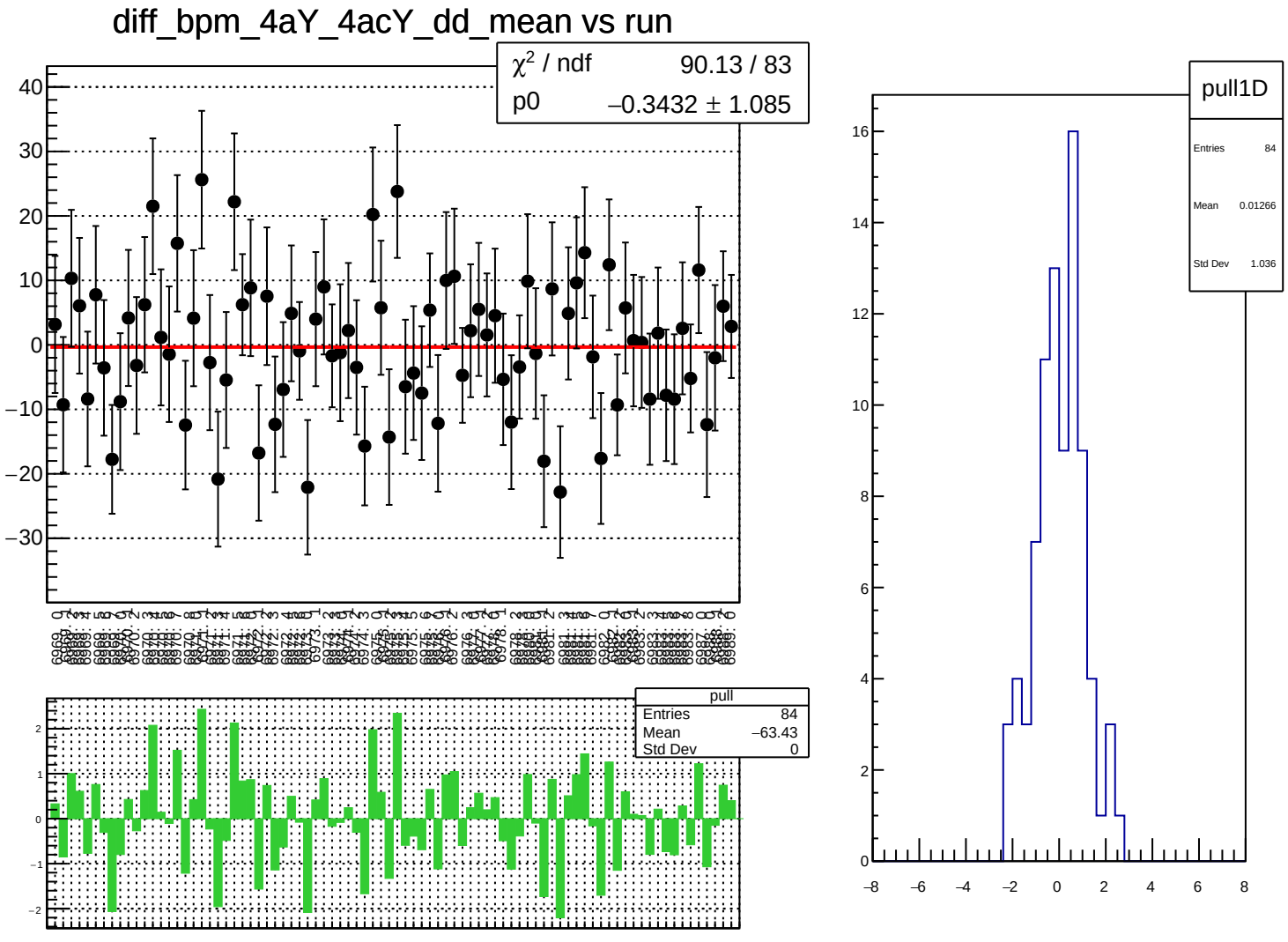

pull1D
Entries 84
Mean 0.02672
Std Dev 1.098

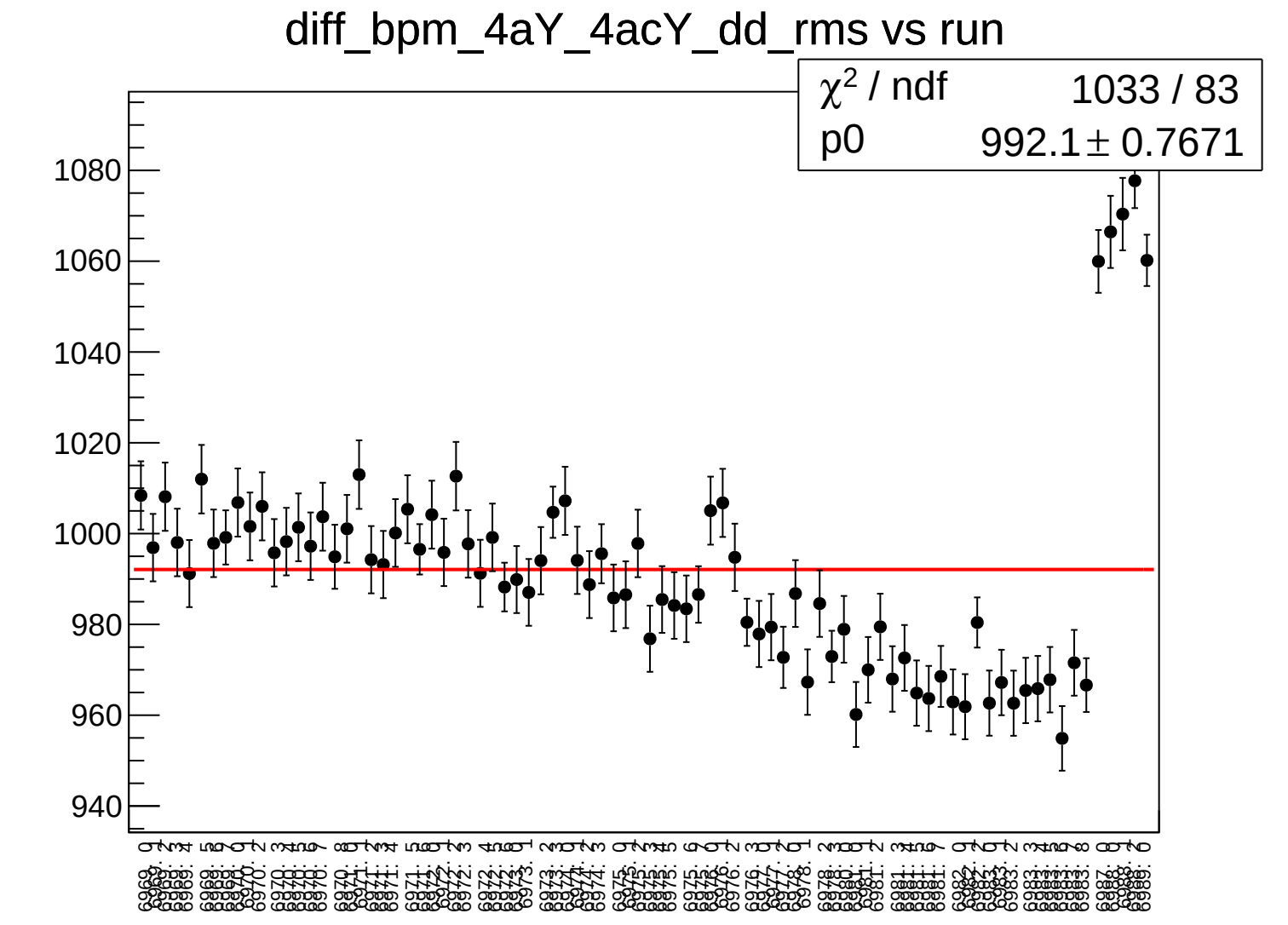

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 900.9 / 83
p0 309.1 ± 0.239
340
330
320
310
300

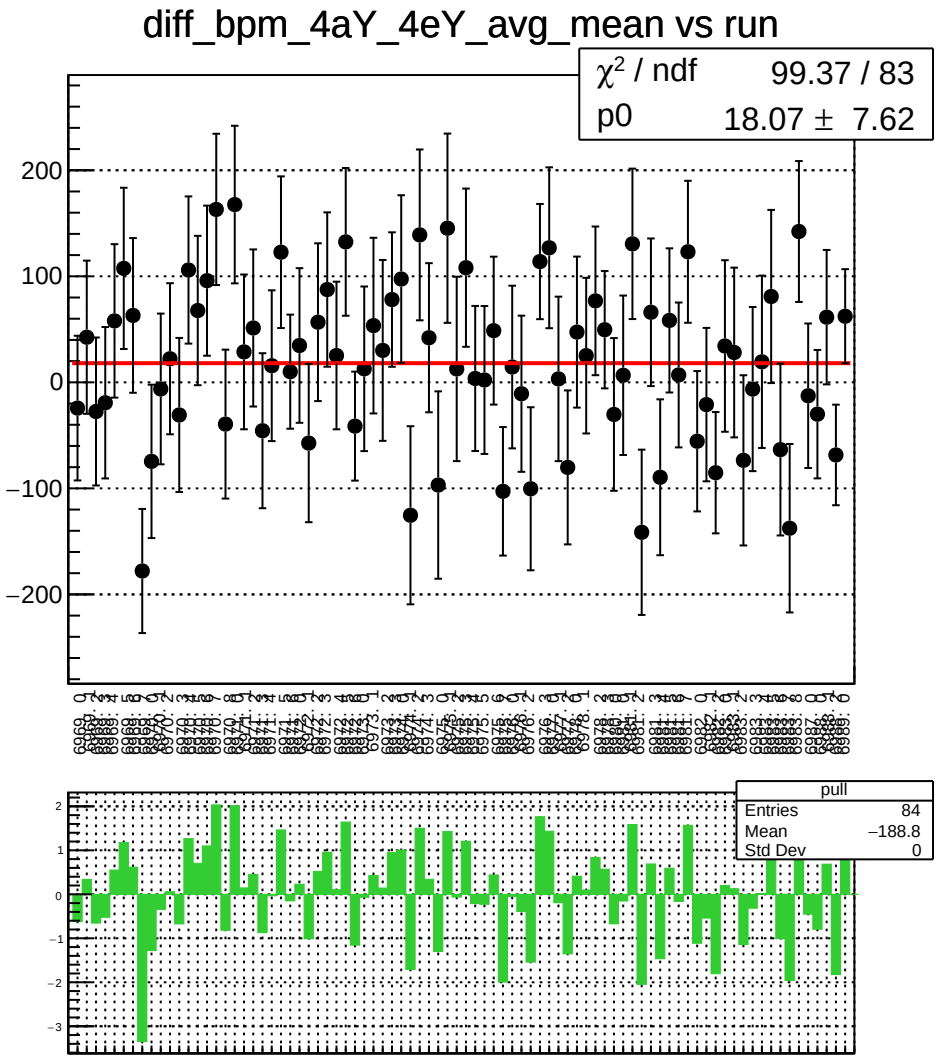

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 96.73 / 83
p0 18.73 ± 7.809
200
100
0
−100
−200
pull
Entries 84
Mean −228.4
Std Dev 0
2
1
0
−1
−2
−3

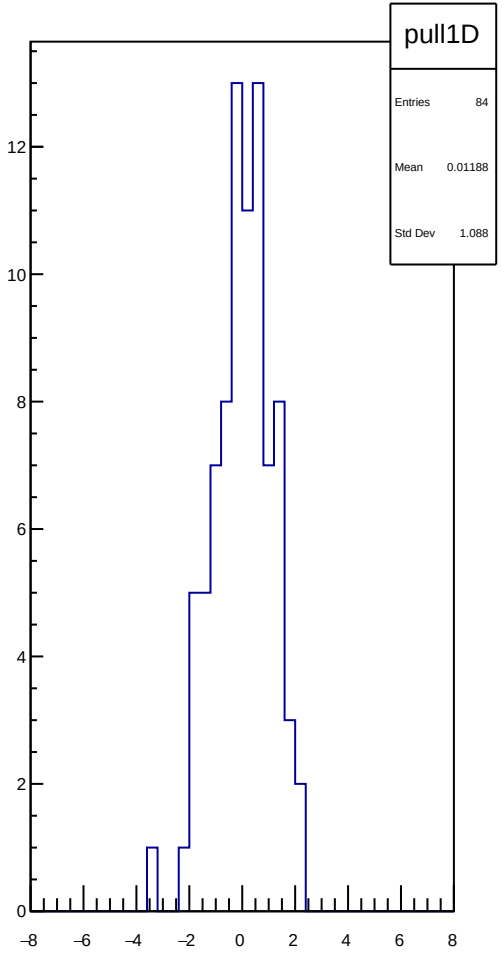

pull1D
Entries 84
Mean 0.01084
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

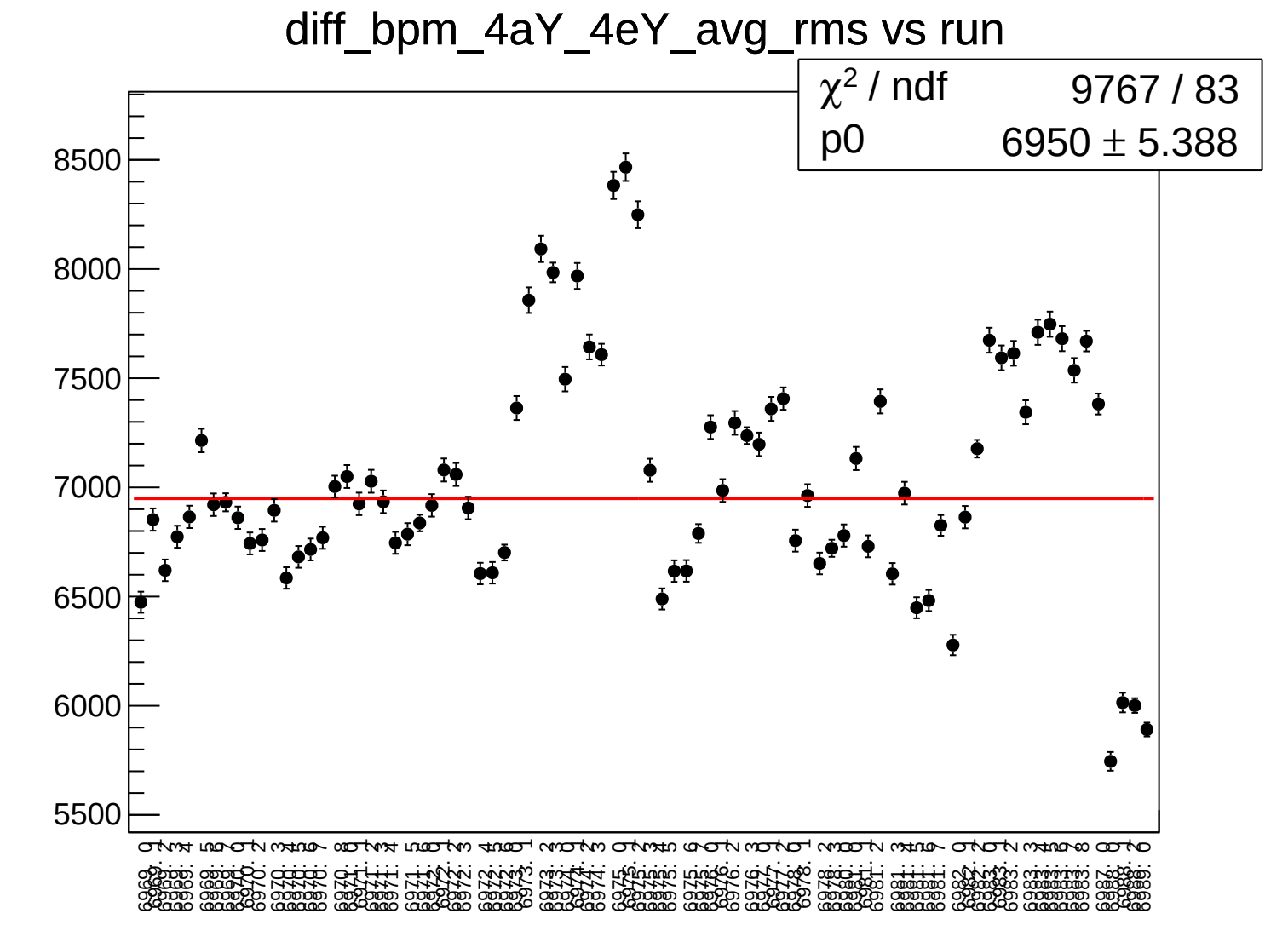

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 7970 / 83
p0 7126 ± 5.522
8500
8000
7500
7000
6500
6000

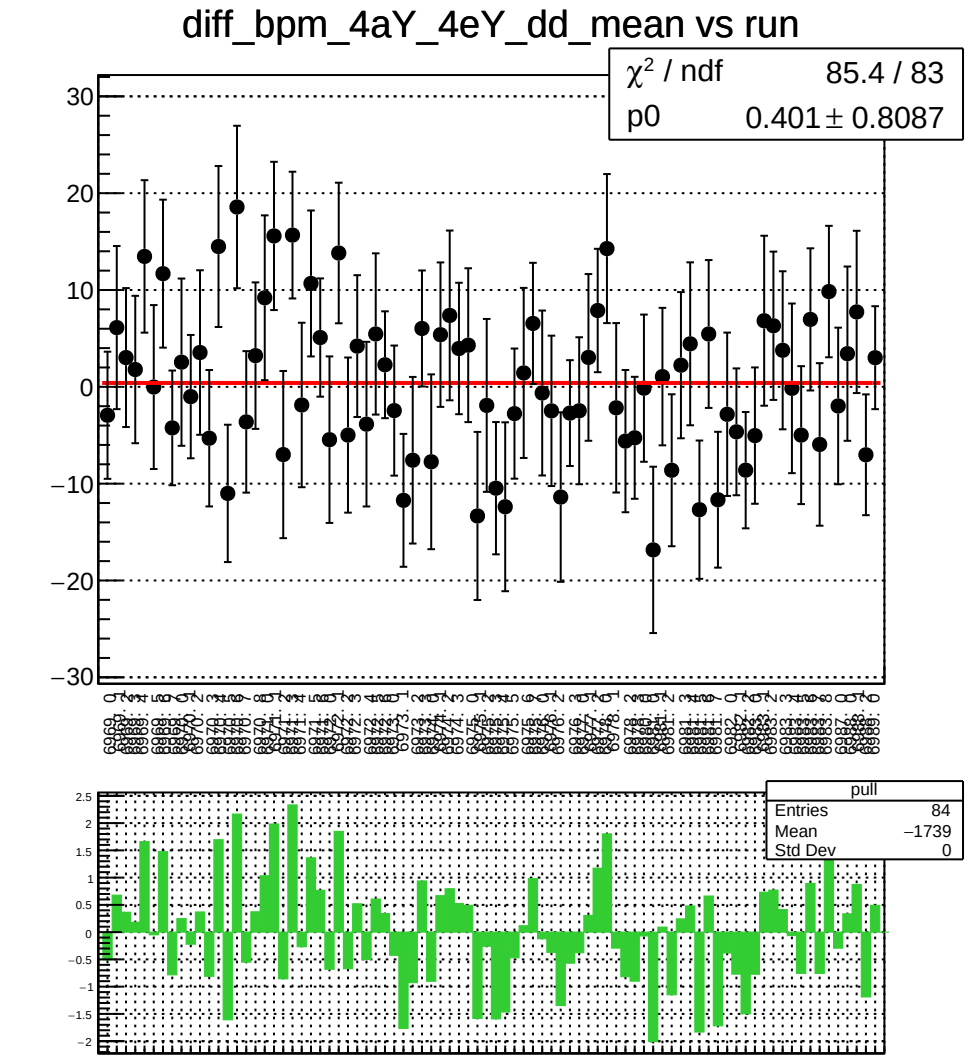

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 90.13 / 83
p0 −0.3432 ± 1.085
pull
Entries 84
Mean −63.43
Std Dev 0
pull1D
Entries 84
Mean 0.01266
Std Dev 1.036

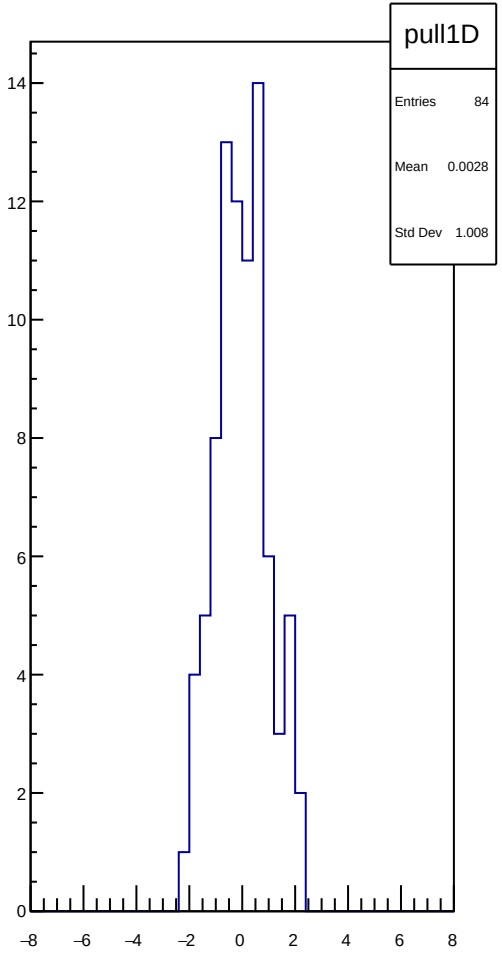

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 1033 / 83
p0 992.1 ± 0.7671
1080
1060
1040
1020
1000
980
960
940

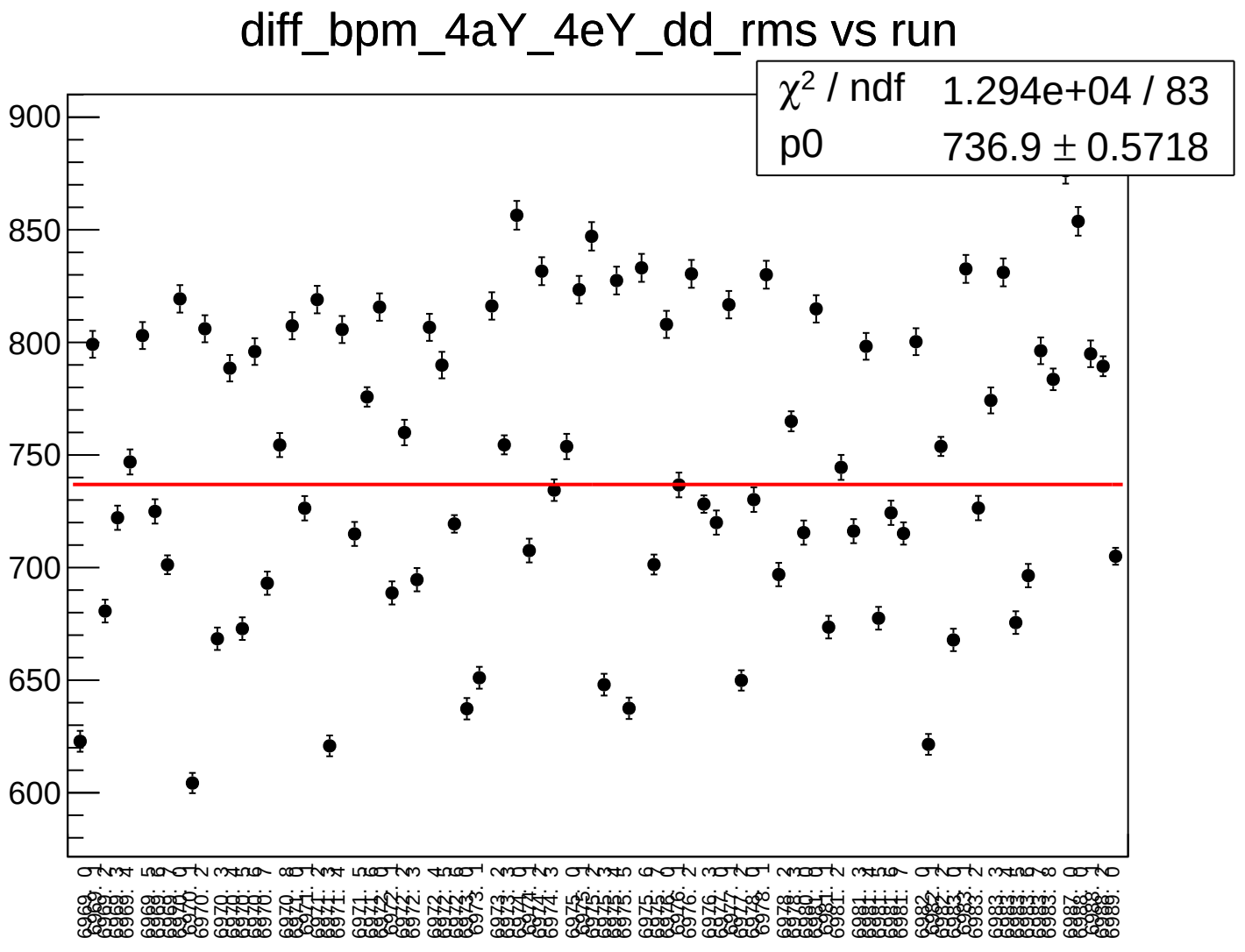

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 99.37 / 83
p0 18.07 ± 7.62
200
100
0
−100
−200
pull
Entries 84
Mean −188.8
Std Dev 0
2
1
0
−1
−2
−3

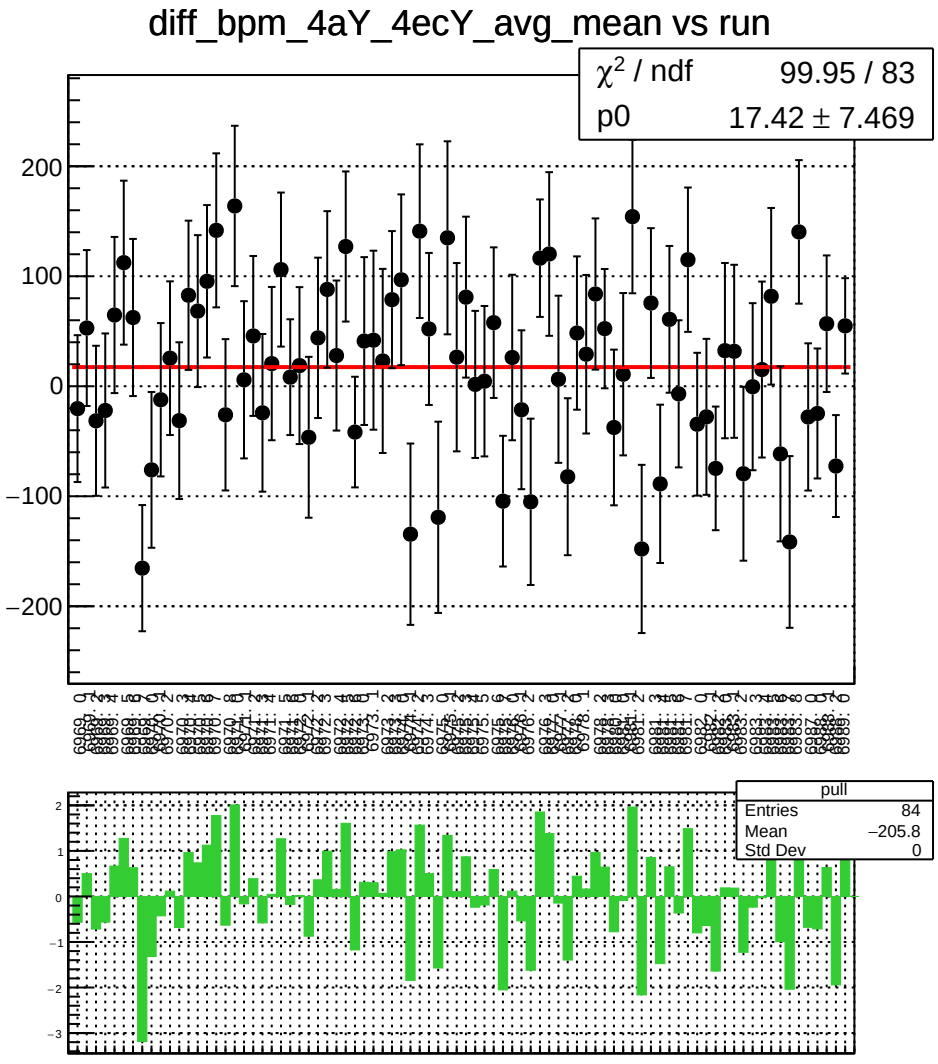

pull1D
Entries 84
Mean 0.01188
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

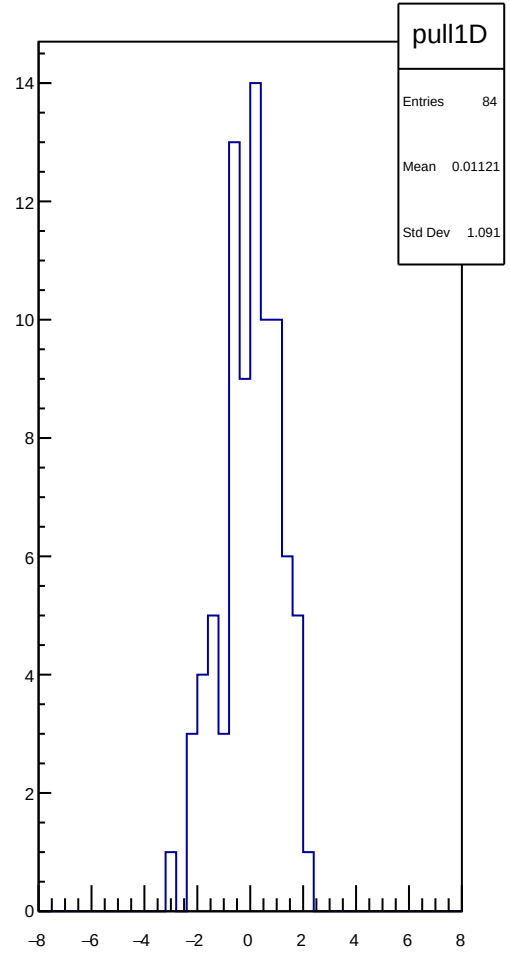

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 9767 / 83
p0 6950 ± 5.388
8500
8000
7500
7000
6500
6000
5500

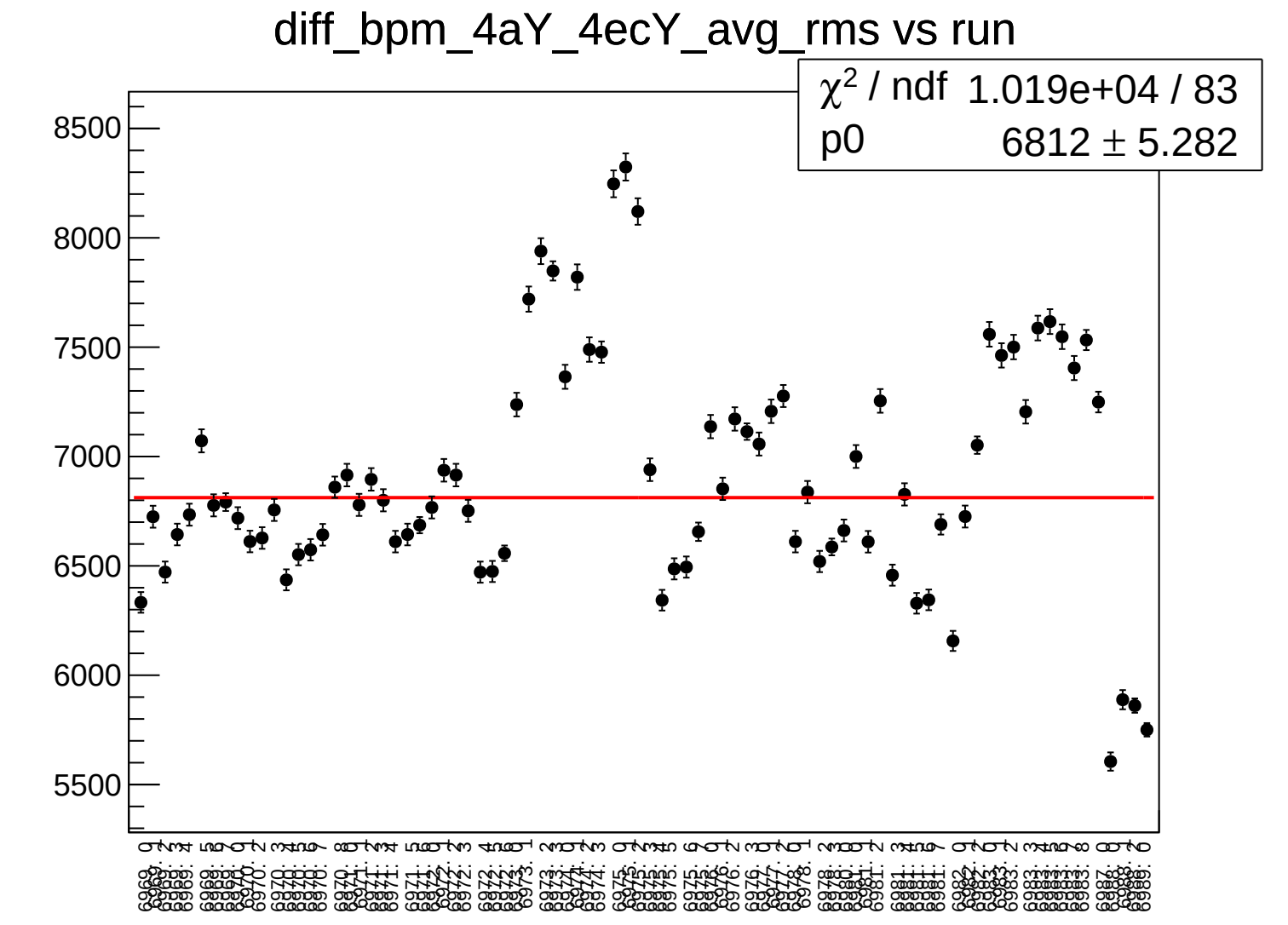

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 85.4 / 83
p0 0.401 ± 0.8087
pull
Entries 84
Mean −1739
Std Dev 0

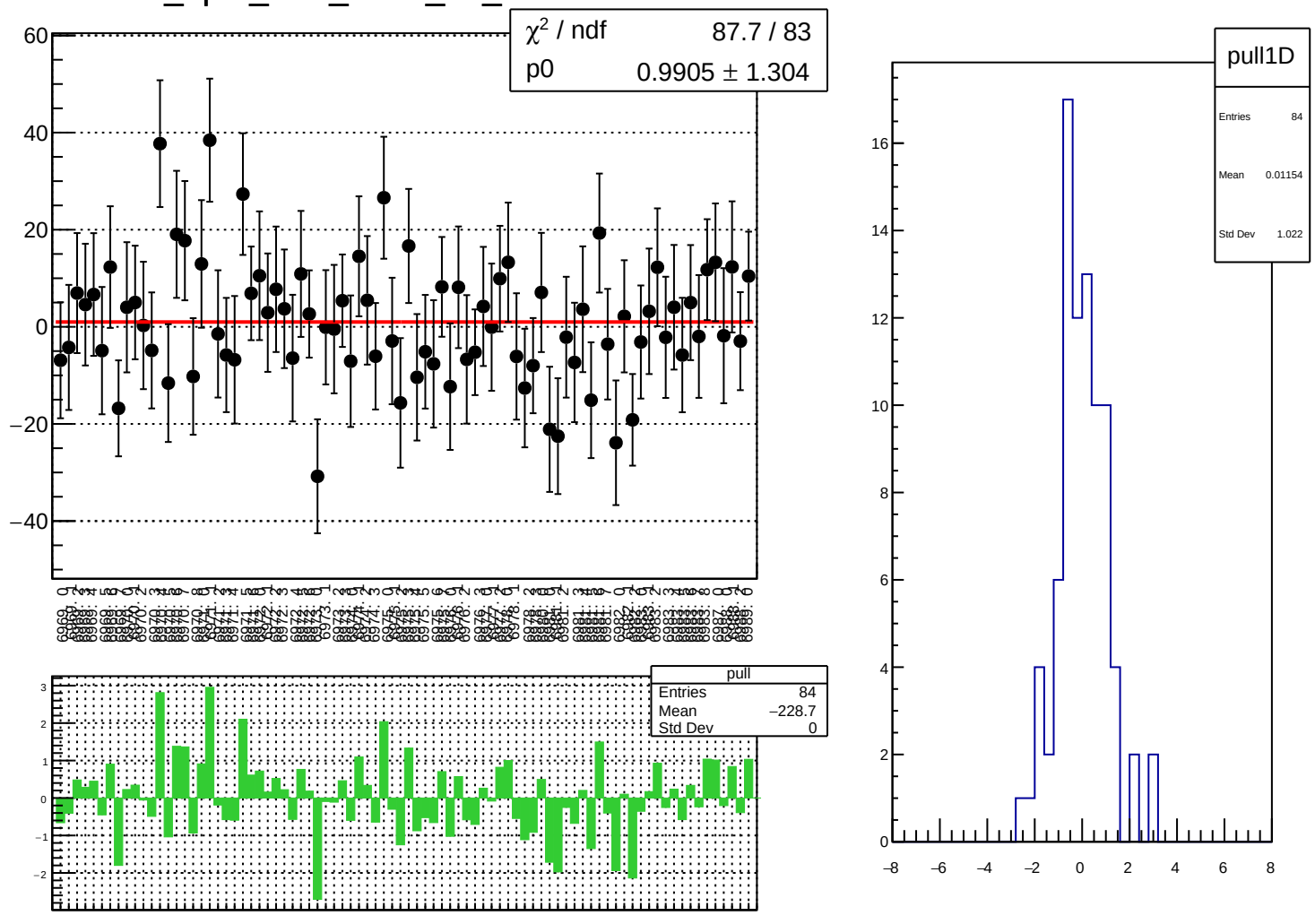

pull1D
Entries 84
Mean 0.0028
Std Dev 1.008

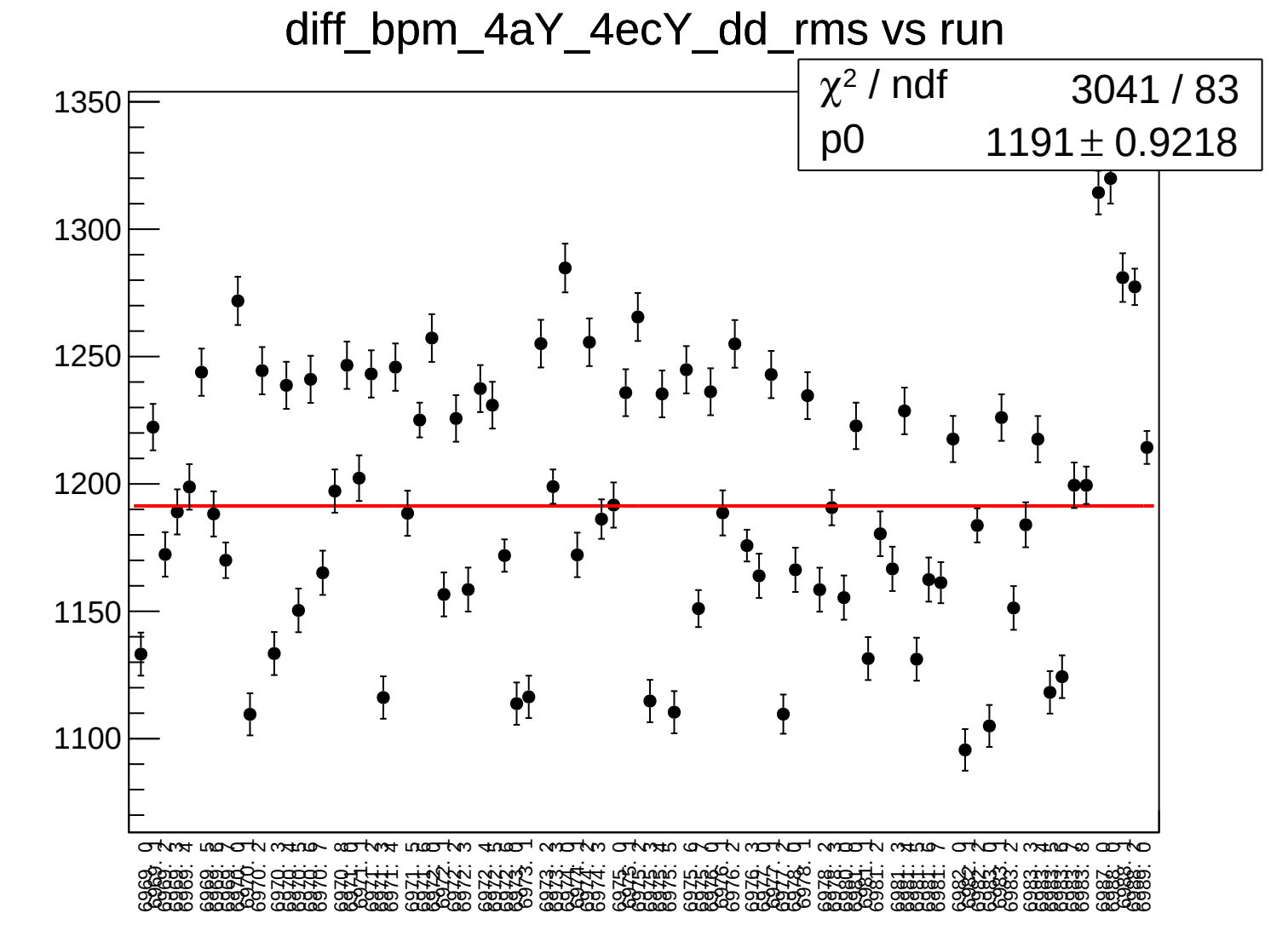

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.294e+04 / 83
p0 736.9 ± 0.5718
900
850
800
750
700
650
600

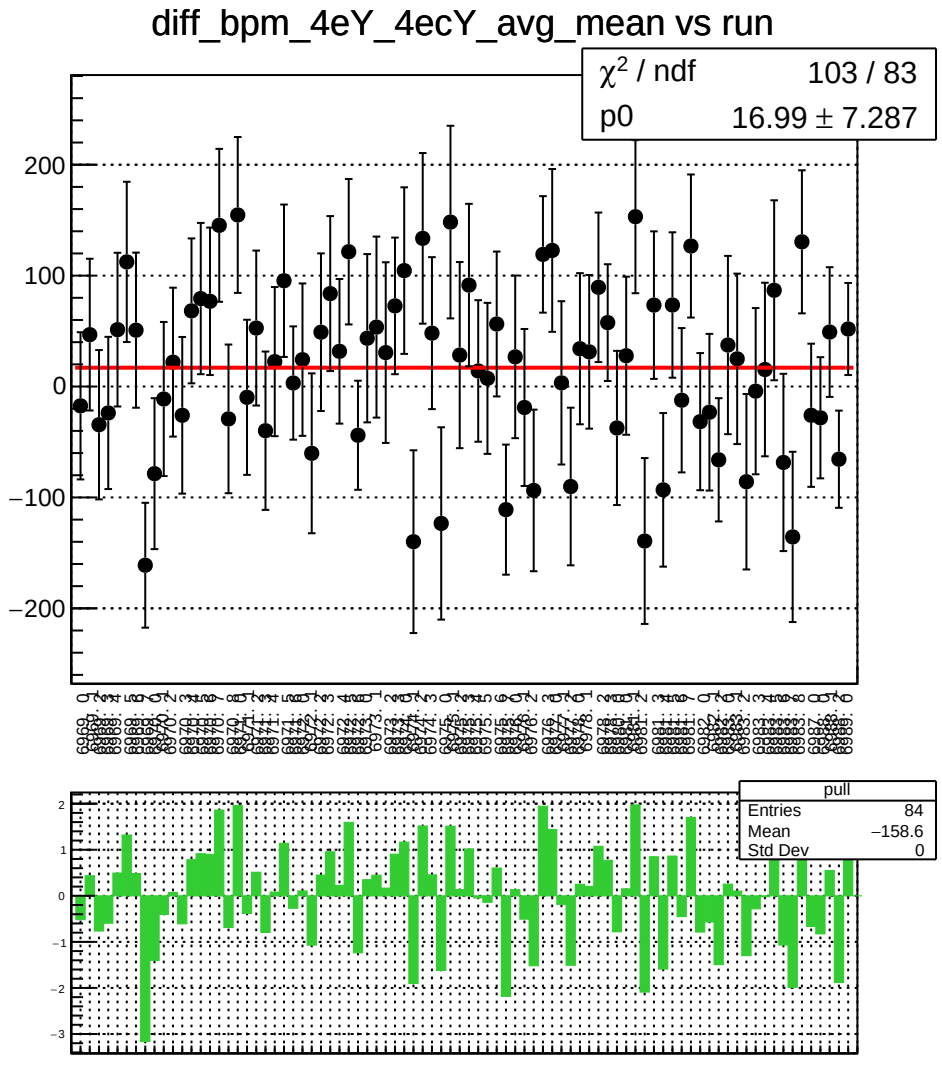

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 99.95 / 83
p0 17.42 ± 7.469
200
100
0
−100
−200
pull
Entries 84
Mean −205.8
Std Dev 0
2
1
0
−1
−2
−3

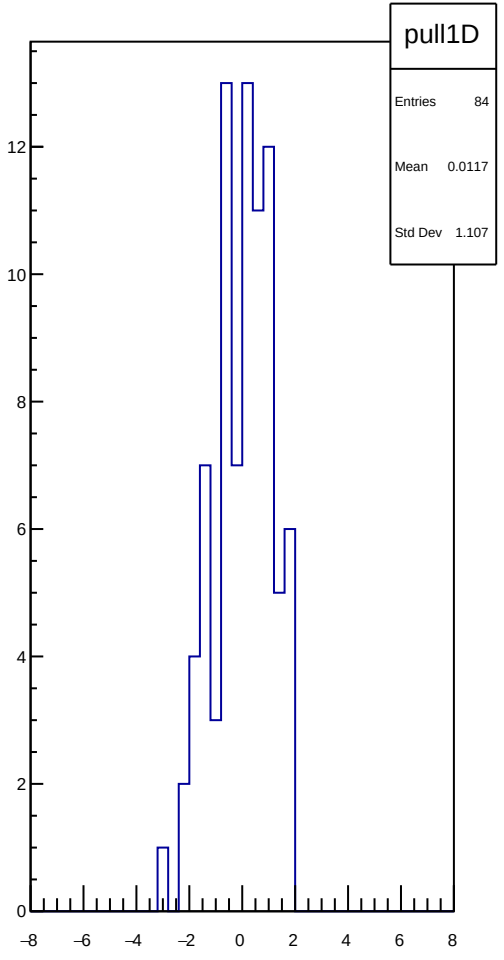

pull1D
Entries 84
Mean 0.01121
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

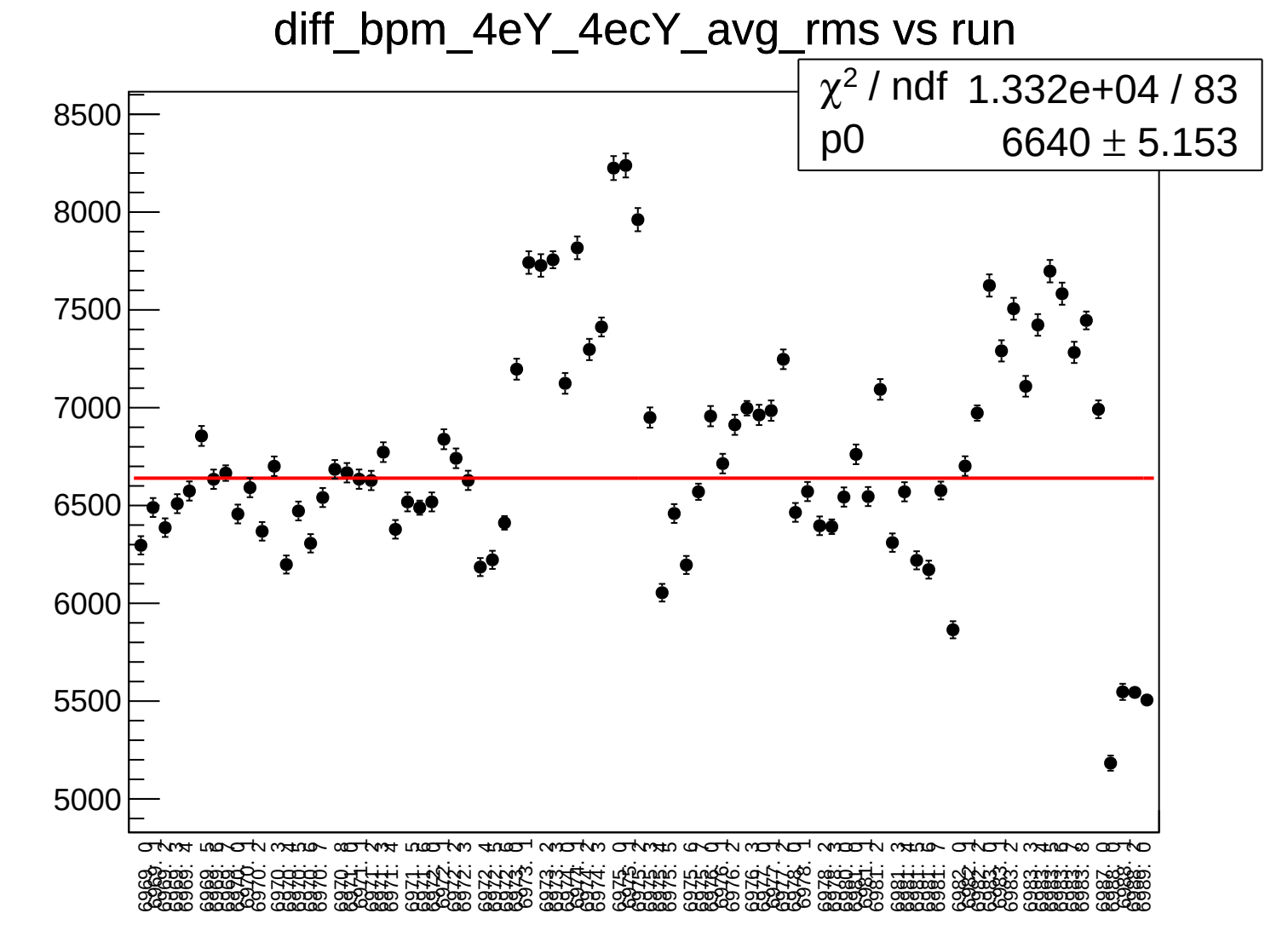

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1.019e+04 / 83
p0 6812 ± 5.282
8500
8000
7500
7000
6500
6000
5500

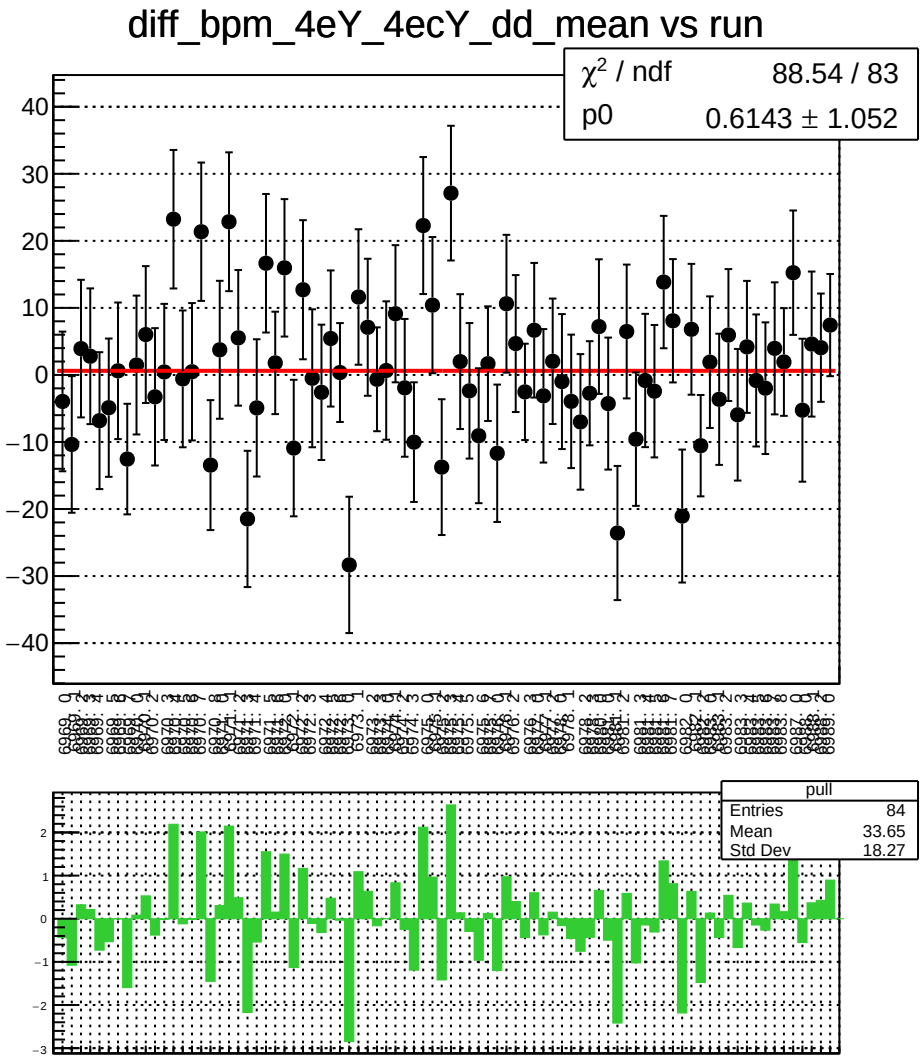

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 87.7 / 83
p0 0.9905 ± 1.304
pull
Entries 84
Mean −228.7
Std Dev 0
pull1D
Entries 84
Mean 0.01154
Std Dev 1.022

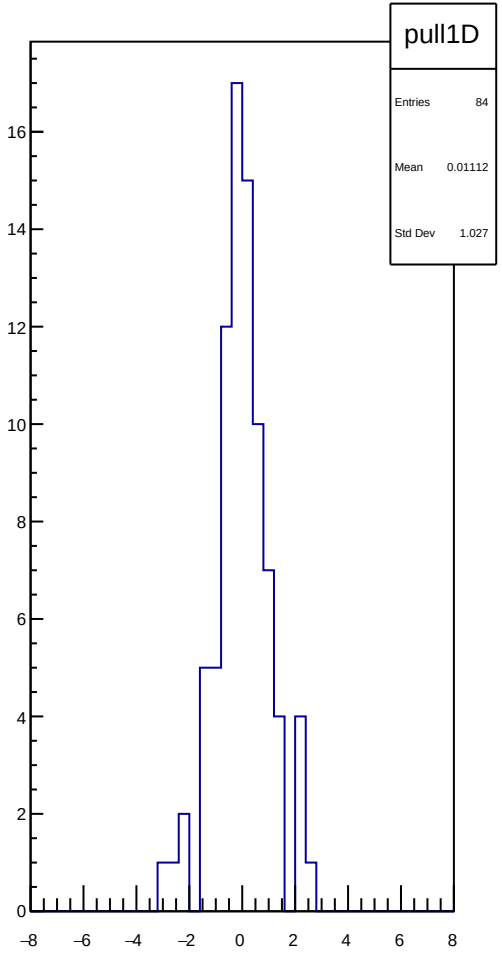

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 3041 / 83
p0 1191 ± 0.9218
1350
1300
1250
1200
1150
1100

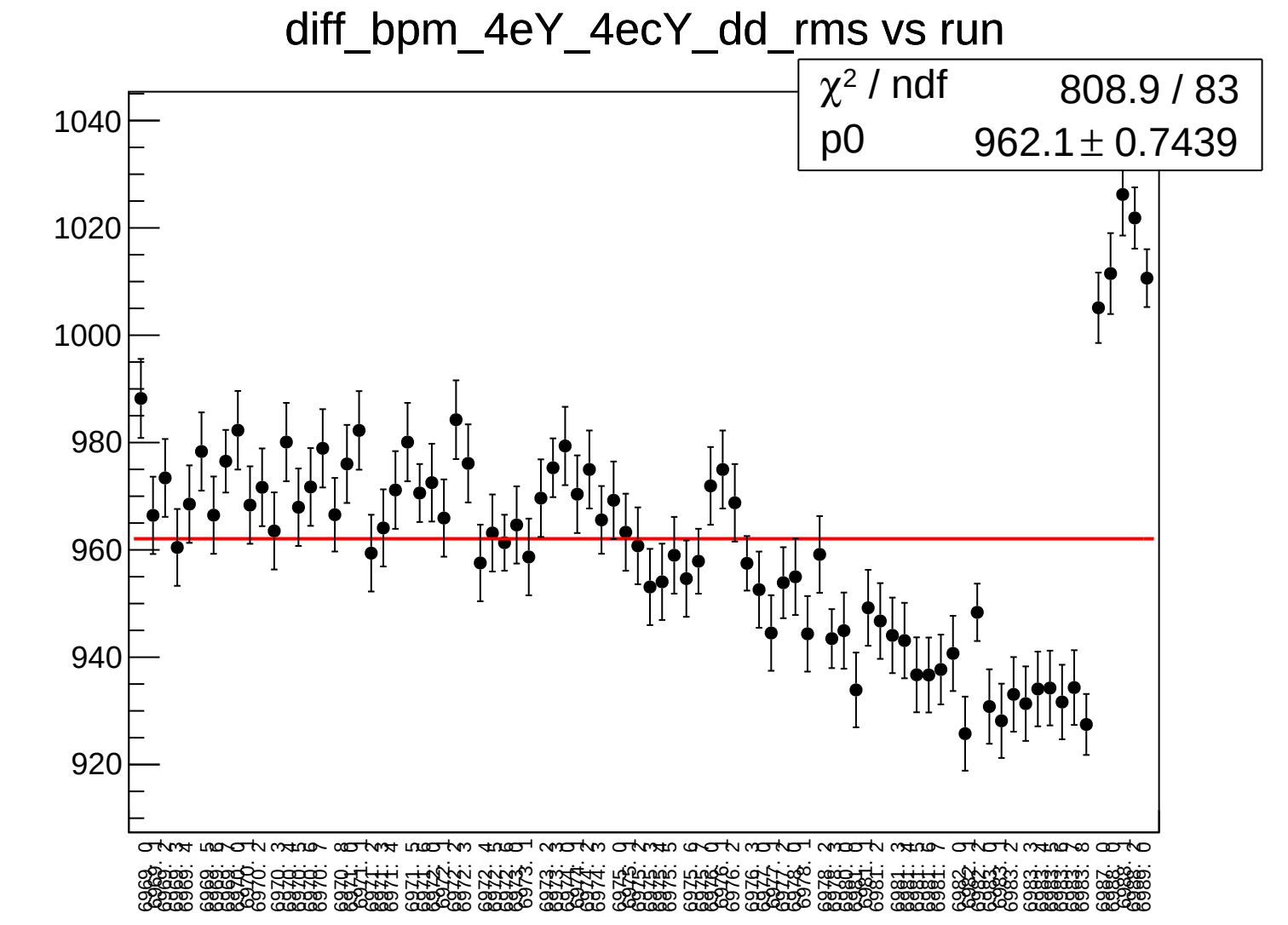

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 103 / 83
p0 16.99 ± 7.287
200
100
0
−100
−200
pull
Entries 84
Mean −158.6
Std Dev 0
2
1
0
−1
−2
−3

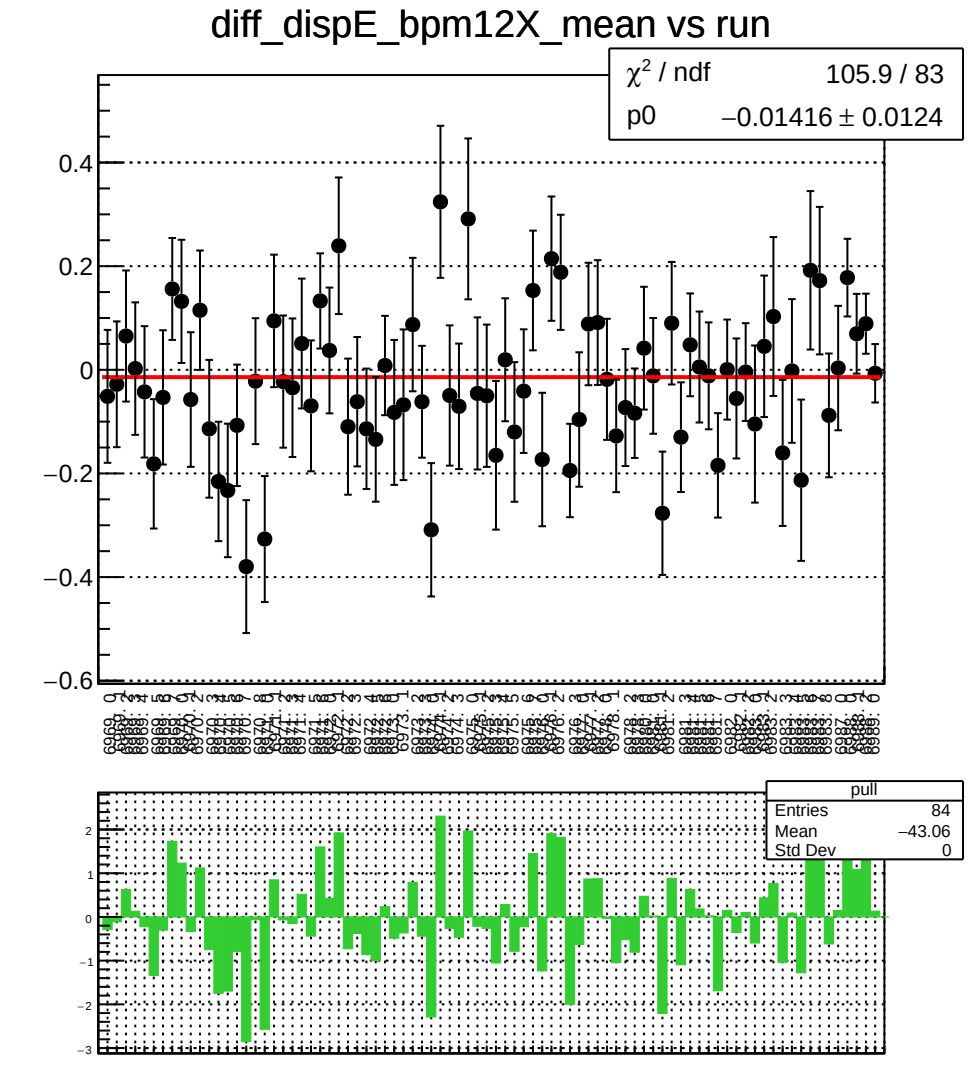

pull1D
Entries 84
Mean 0.0117
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

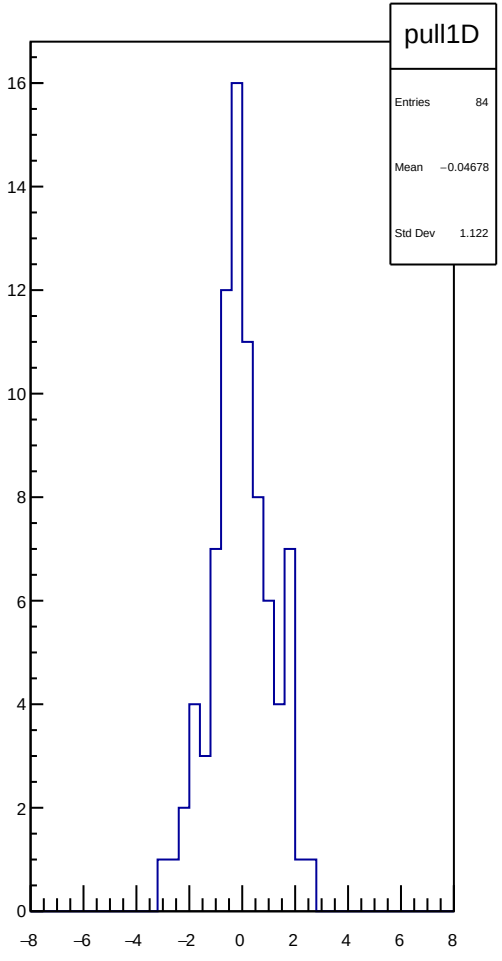

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.332e+04 / 83
p0 6640 ± 5.153
8500
8000
7500
7000
6500
6000
5500
5000

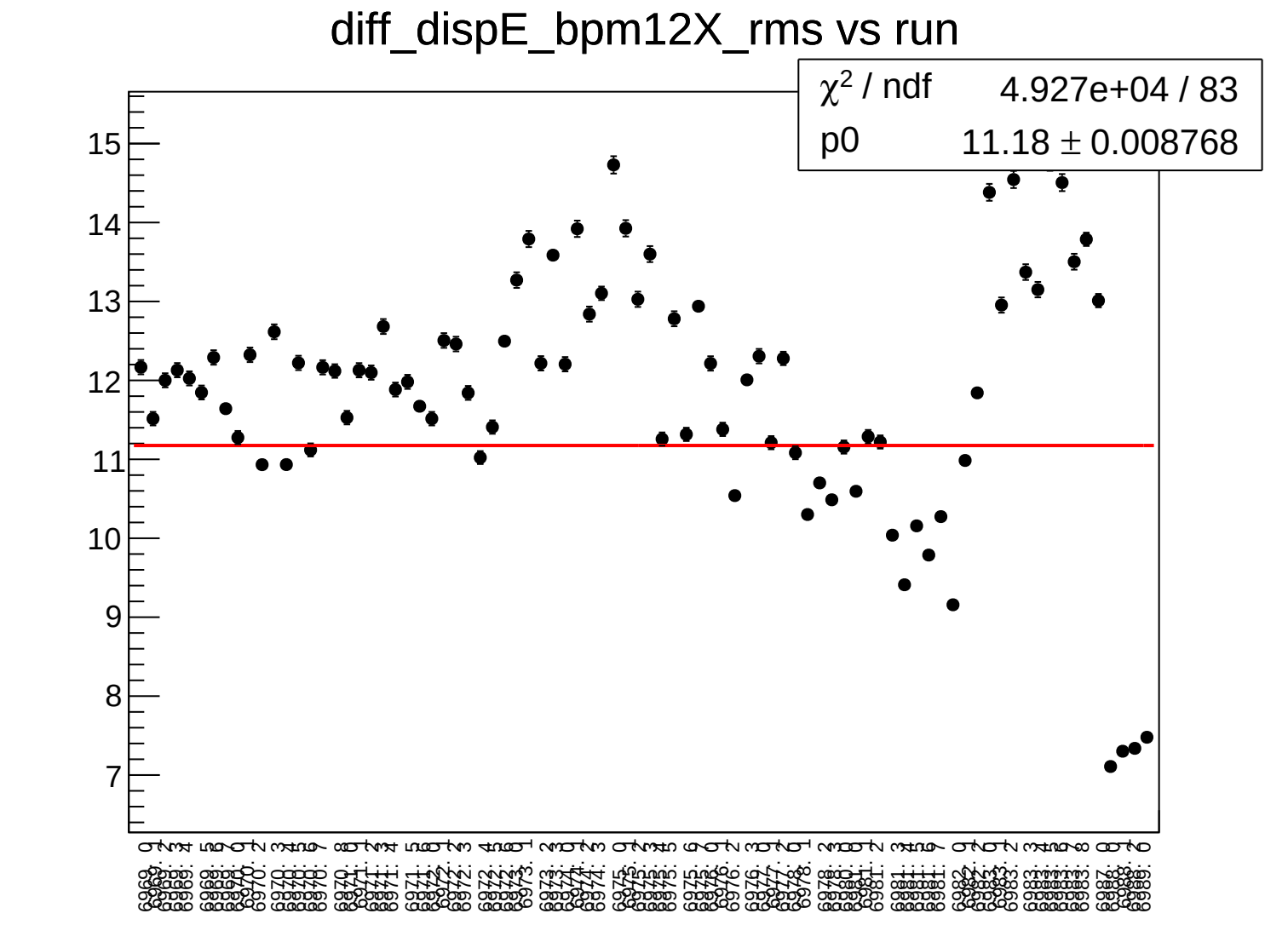

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 88.54 / 83
p0 0.6143 ± 1.052
pull
Entries 84
Mean 33.65
Std Dev 18.27

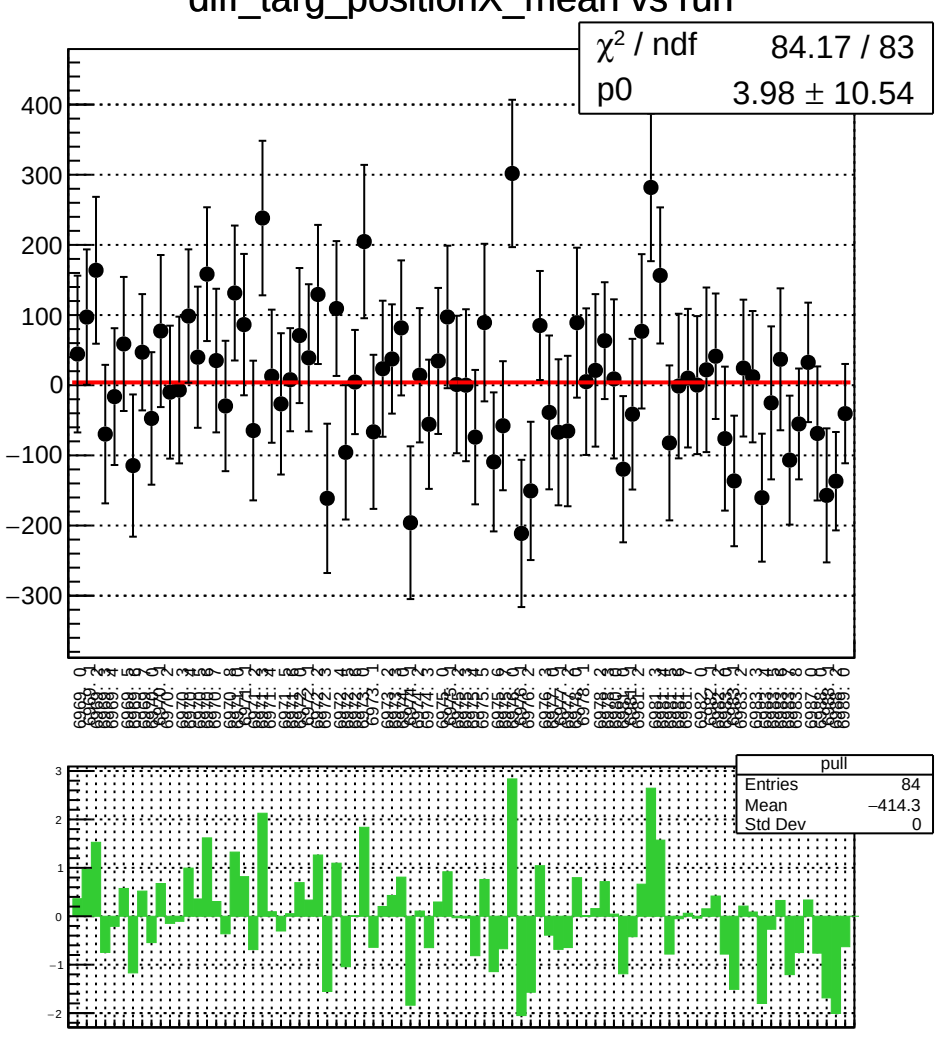

pull1D
Entries 84
Mean 0.01112
Std Dev 1.027

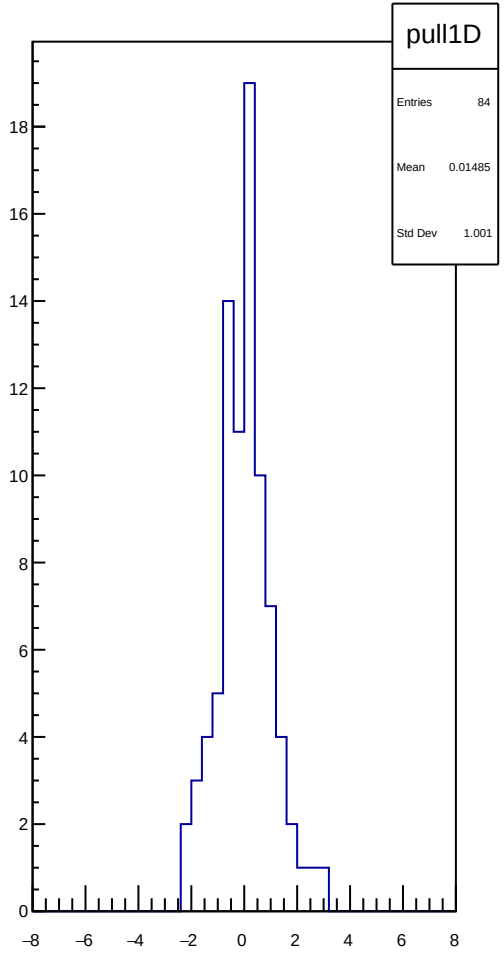

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 808.9 / 83
p0 962.1 ± 0.7439
1040
1020
1000
980
960
940
920

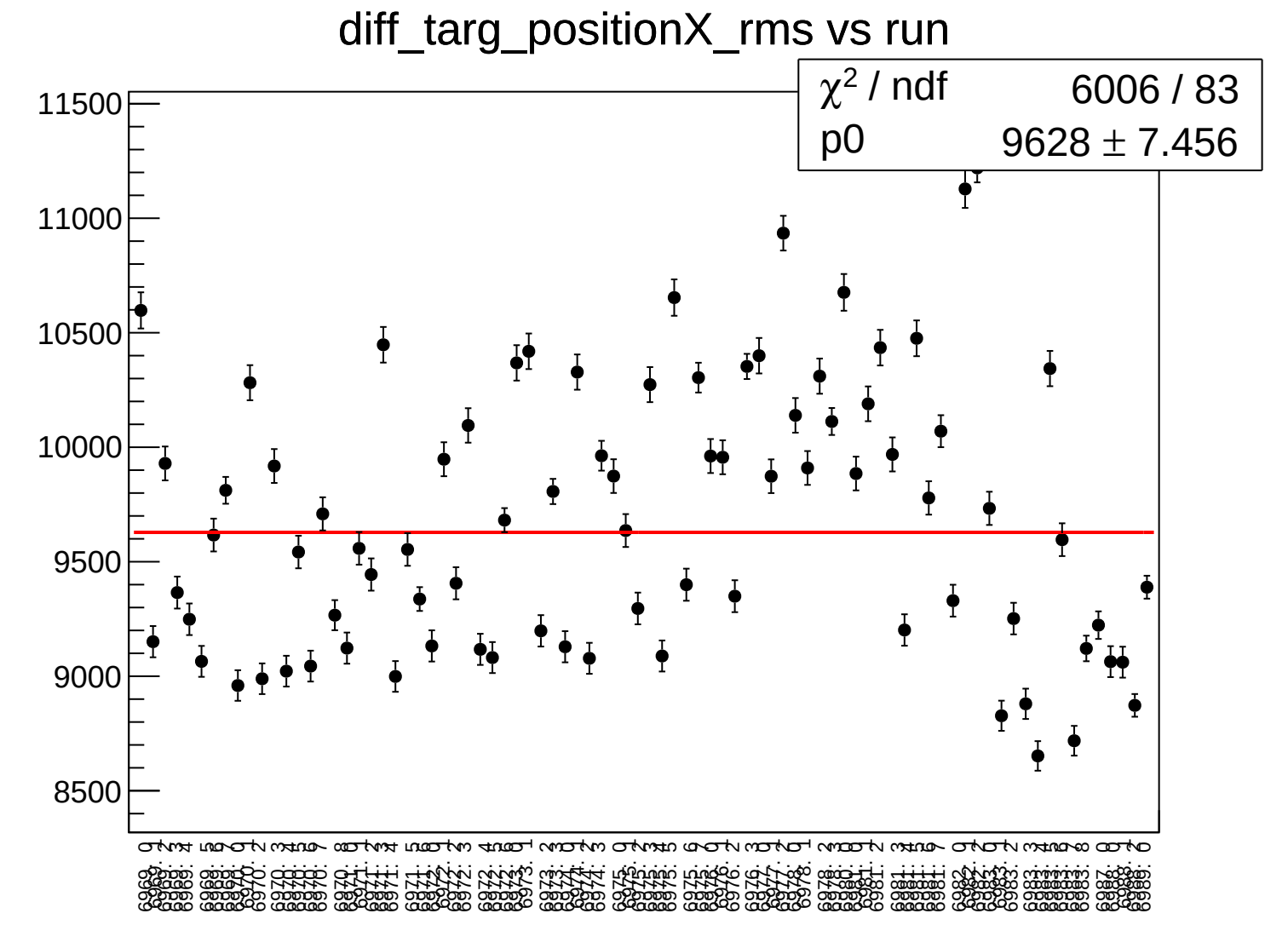

diff_dispE_bpm12X_mean vs run
χ² / ndf 105.9 / 83
p0 −0.01416 ± 0.0124
pull
Entries 84
Mean −43.06
Std Dev 0

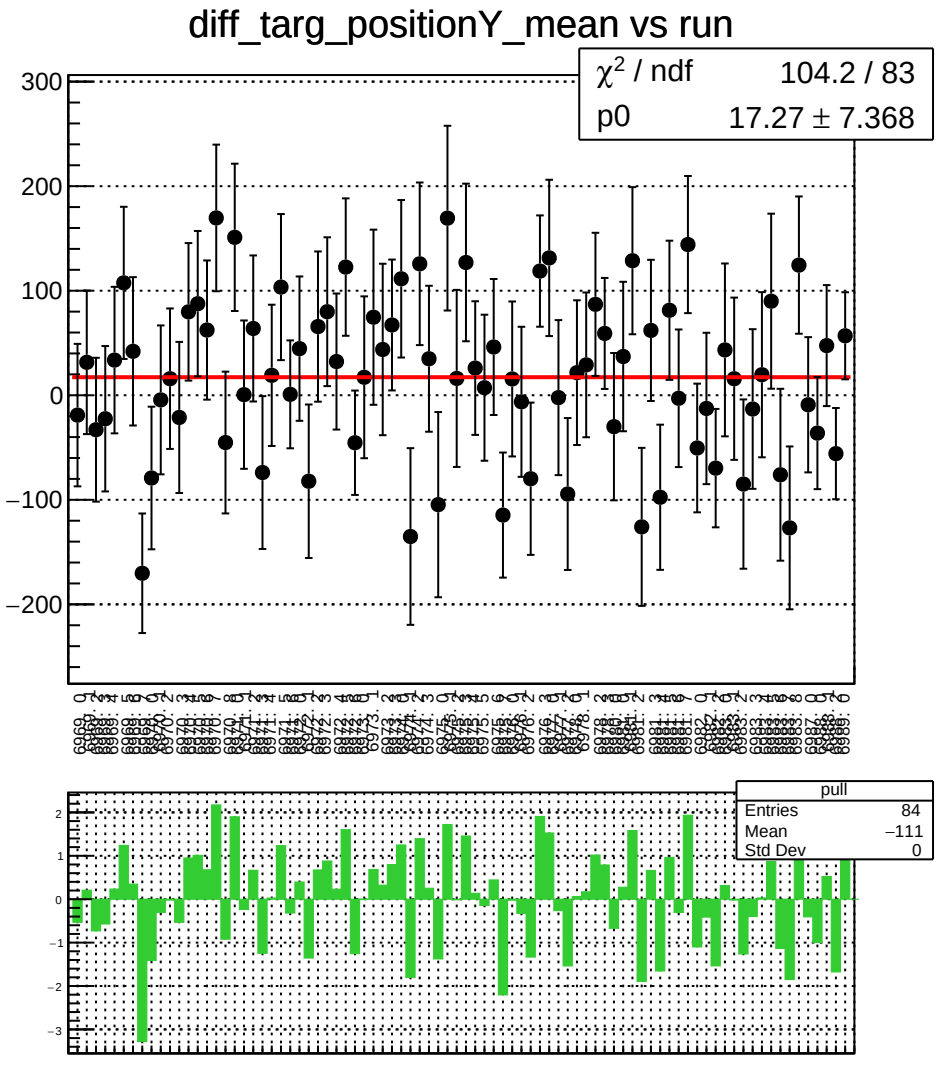

pull1D
Entries 84
Mean −0.04678
Std Dev 1.122

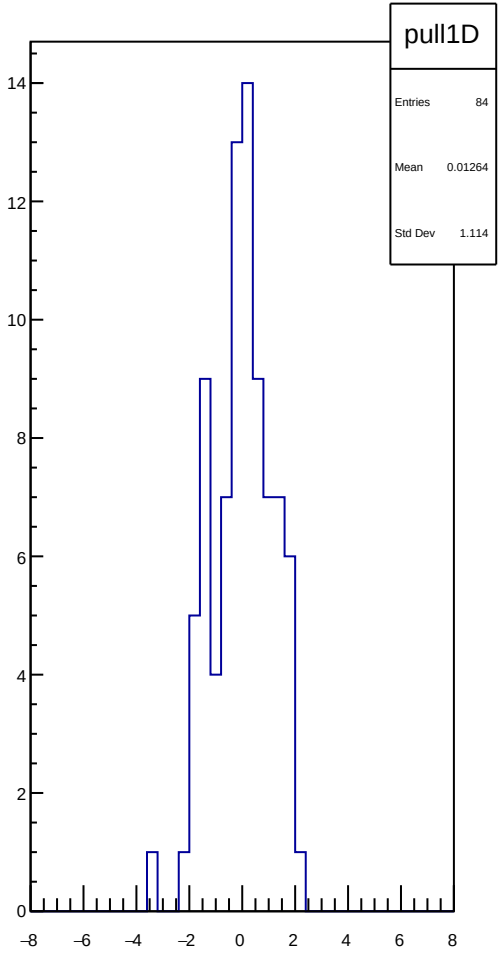

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 4.927e+04 / 83
p0 11.18 ± 0.008768
15
14
13
12
11
10
9
8
7

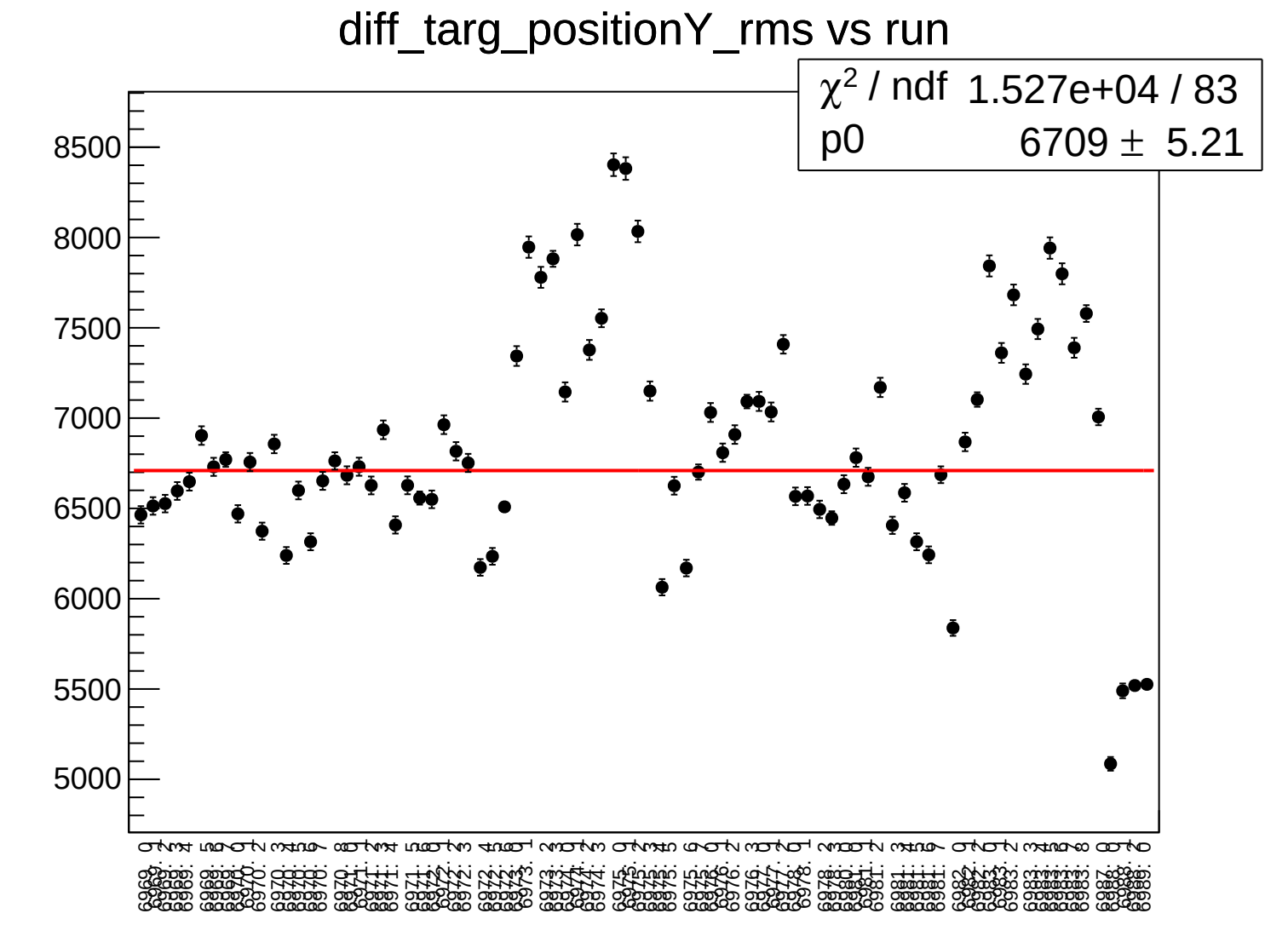

diff_targ_positionX_mean vs run
χ² / ndf 84.17 / 83
p0 3.98 ± 10.54
pull
Entries 84
Mean −414.3
Std Dev 0

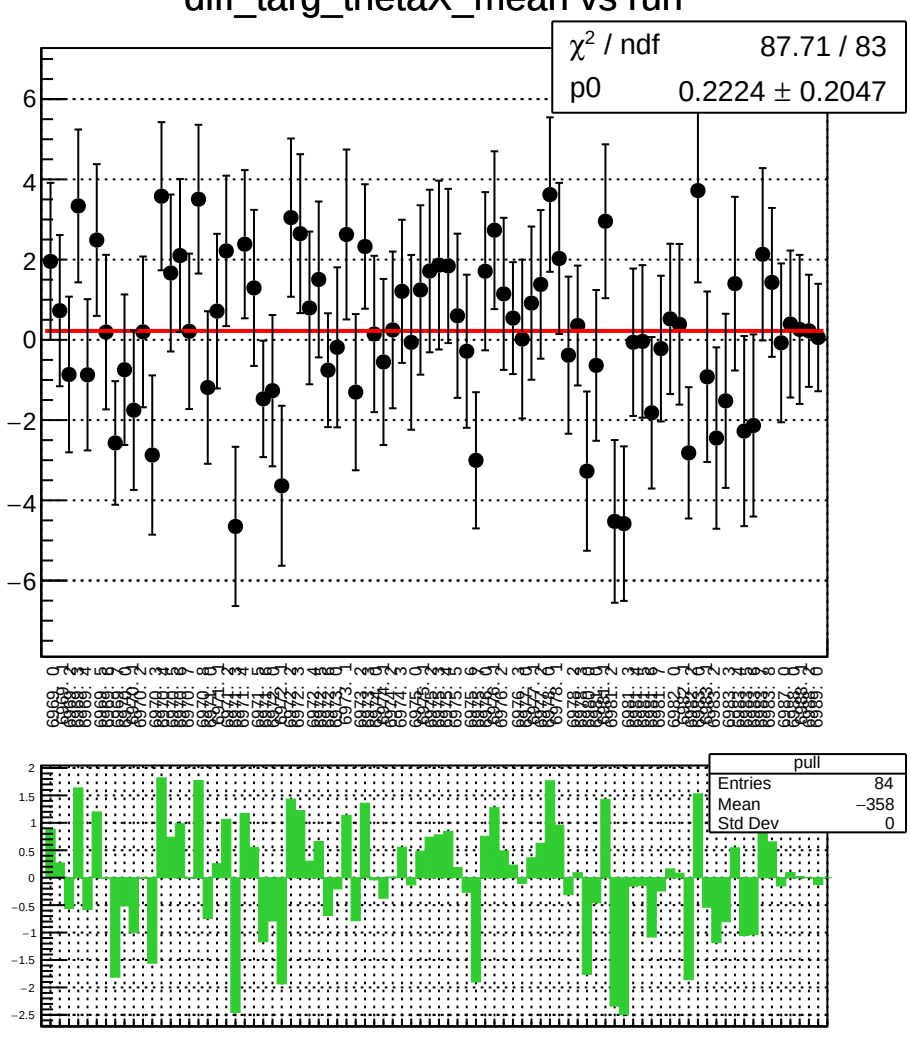

pull1D
Entries 84
Mean 0.01485
Std Dev 1.001

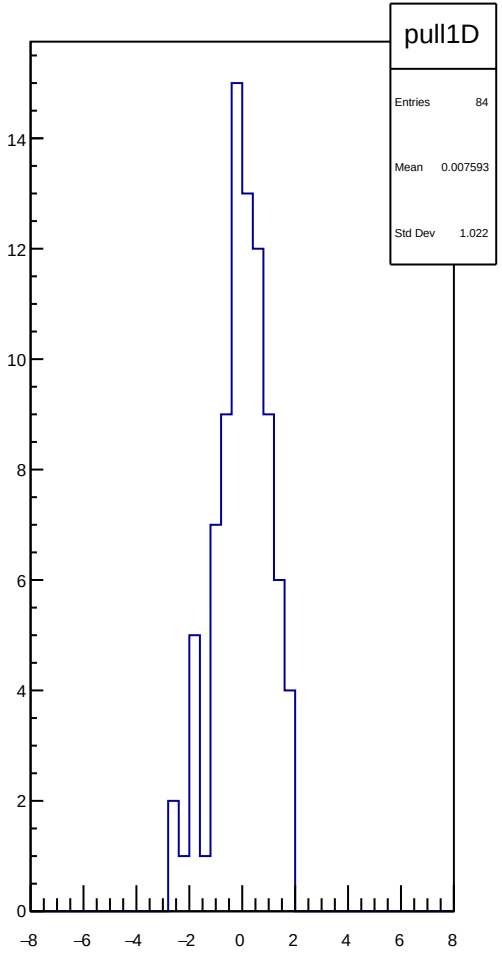

diff_targ_positionX_rms vs run
χ² / ndf 6006 / 83
p0 9628 ± 7.456
11500
11000
10500
10000
9500
9000
8500

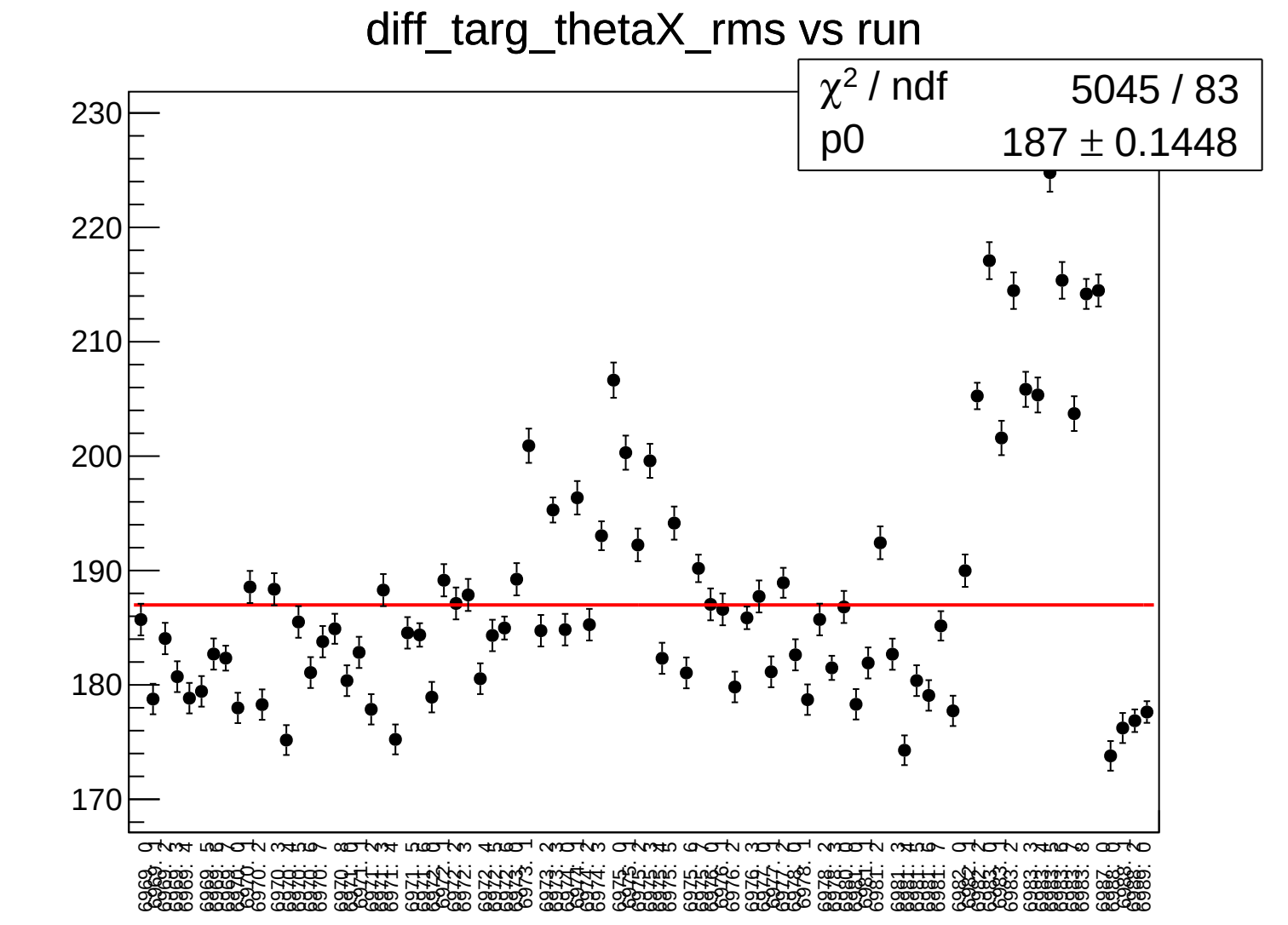

diff_targ_positionY_mean vs run
χ² / ndf 104.2 / 83
p0 17.27 ± 7.368
pull
Entries 84
Mean −111
Std Dev 0

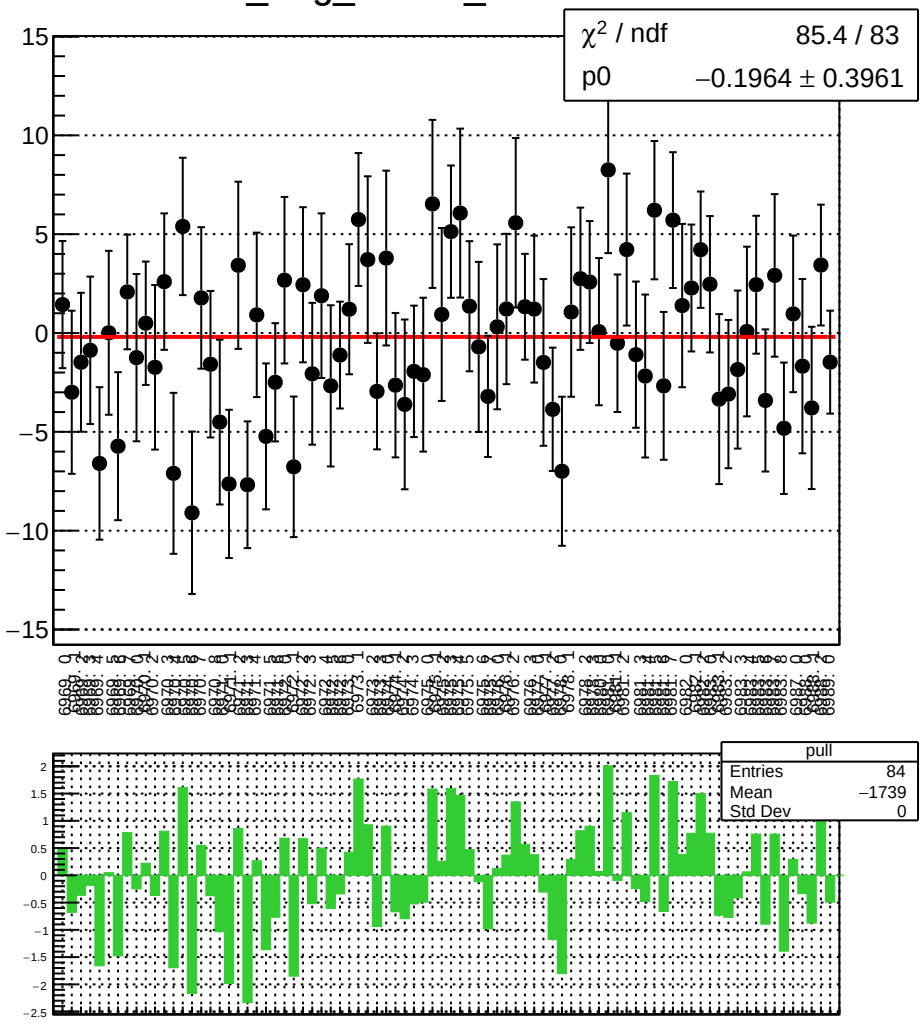

pull1D
Entries 84
Mean 0.01264
Std Dev 1.114

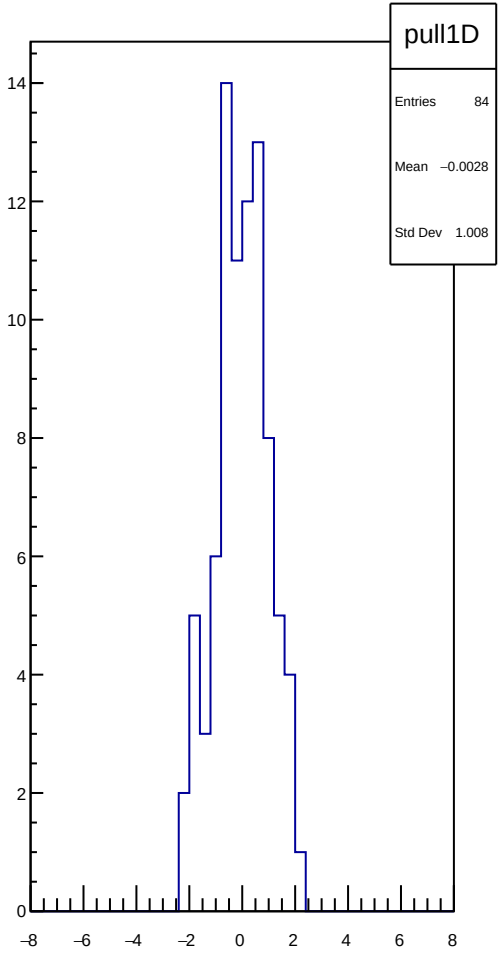

diff_targ_positionY_rms vs run
χ² / ndf 1.527e+04 / 83
p0 6709 ± 5.21
8500
8000
7500
7000
6500
6000
5500
5000

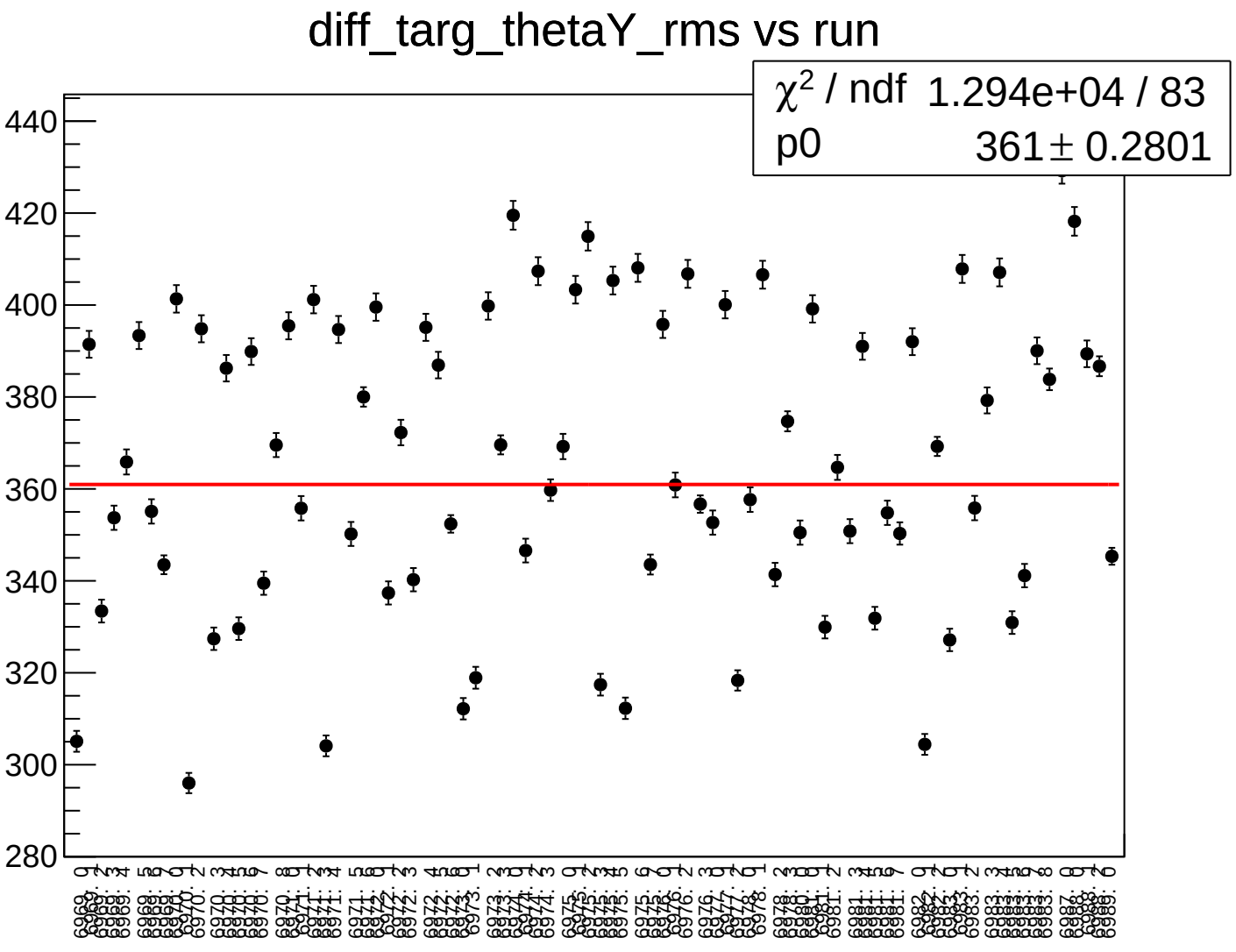

diff_targ_thetaX_mean vs run
χ² / ndf 87.71 / 83
p0 0.2224 ± 0.2047
pull
Entries 84
Mean −358
Std Dev 0

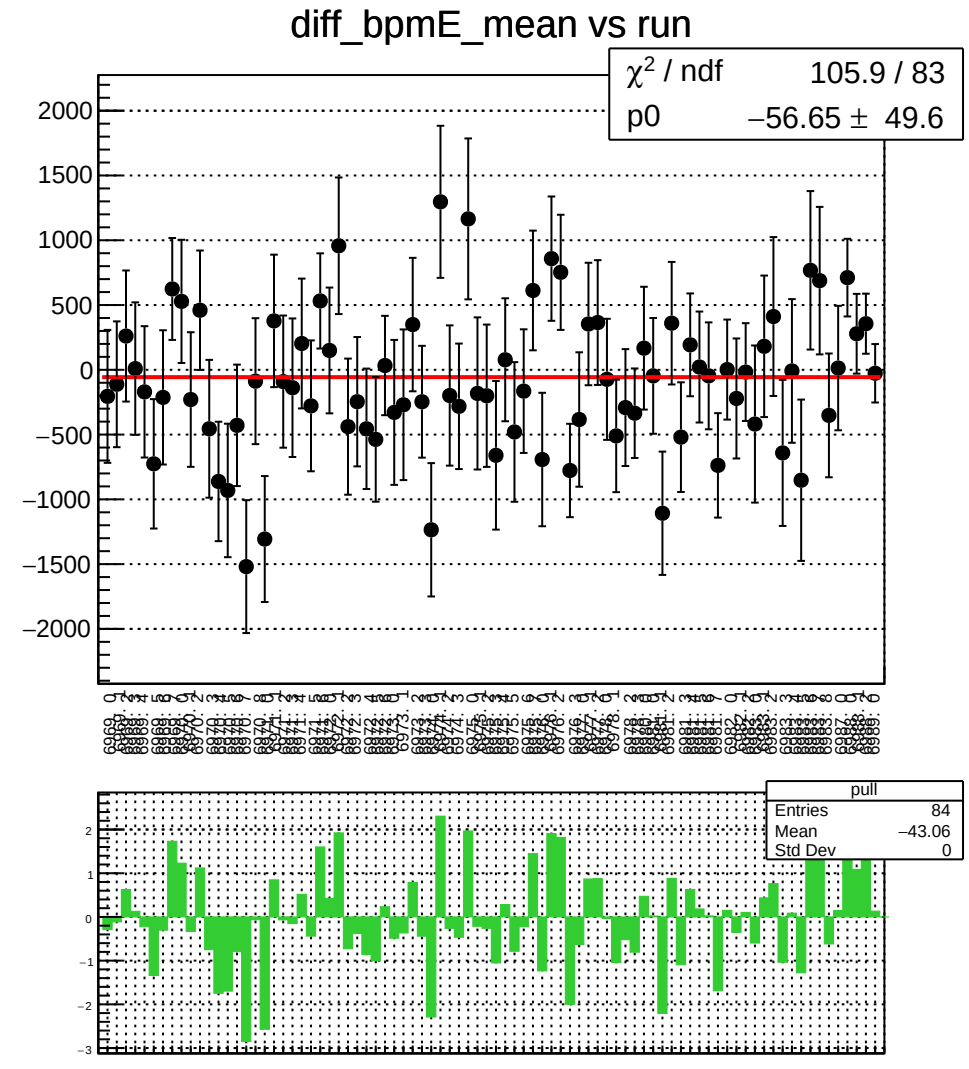

pull1D
Entries 84
Mean 0.007593
Std Dev 1.022

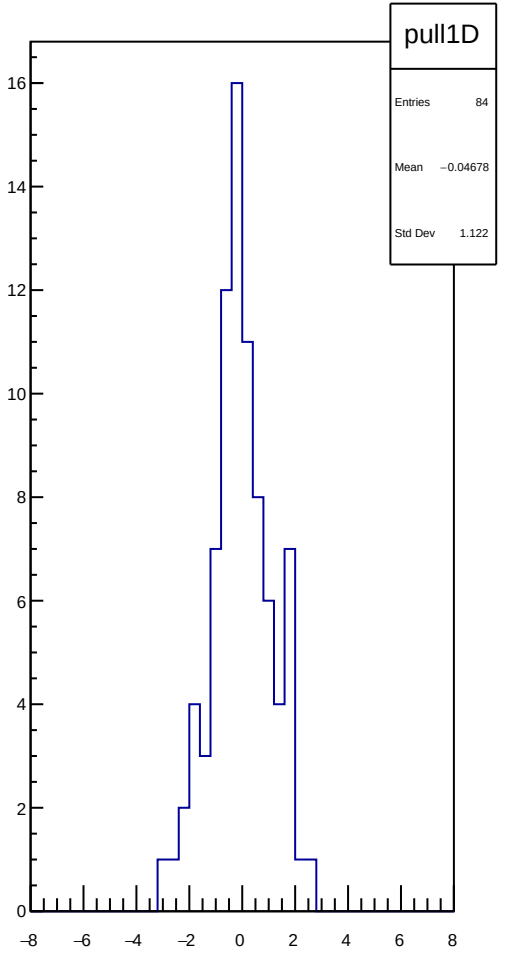

diff_targ_thetaX_rms vs run
χ^2 / ndf 5045 / 83
p0 187 ± 0.1448
230
220
210
200
190
180
170

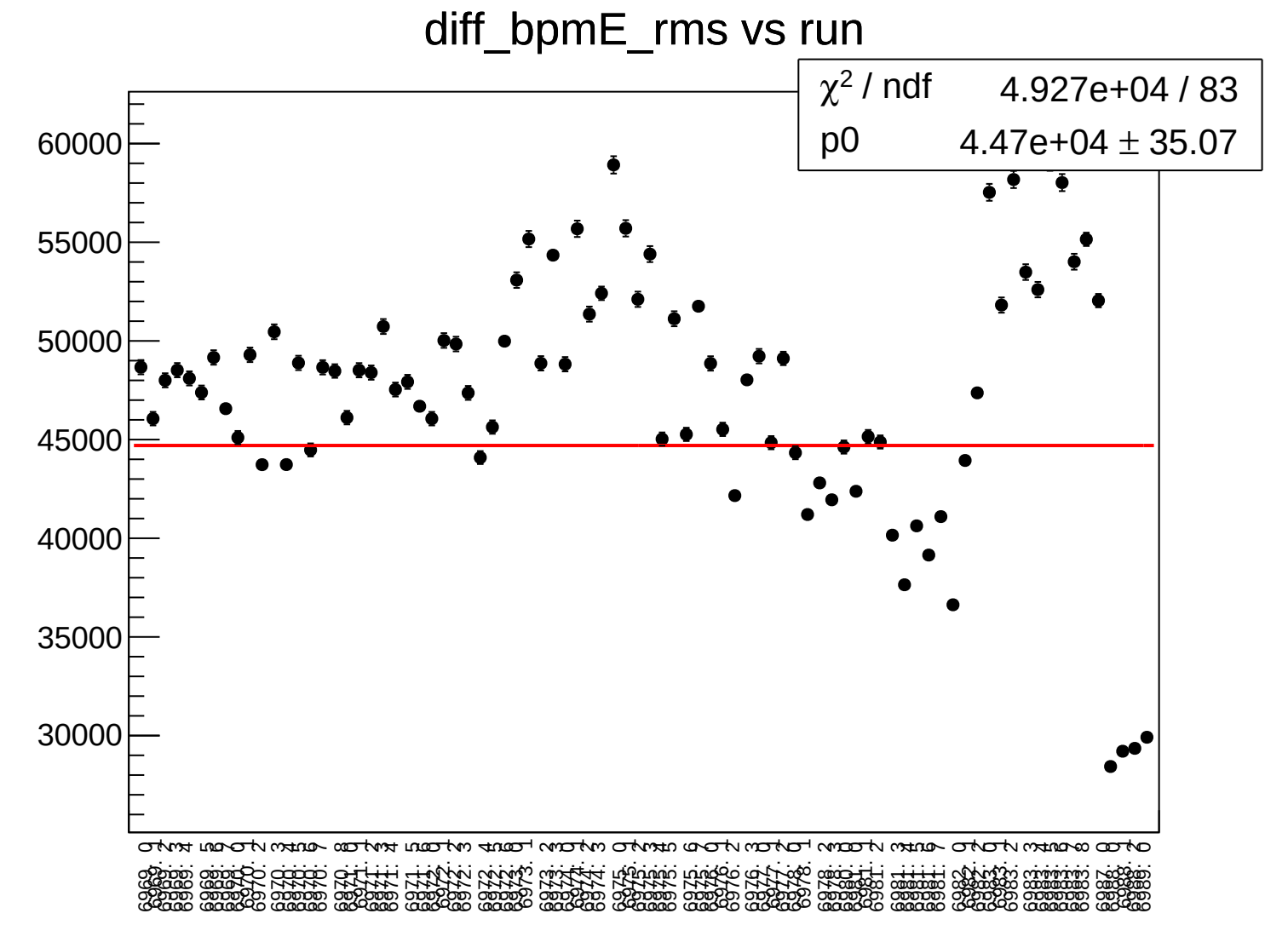

diff_targ_thetaY_mean vs run
χ² / ndf 85.4 / 83
p0 −0.1964 ± 0.3961
pull
Entries 84
Mean −1739
Std Dev 0

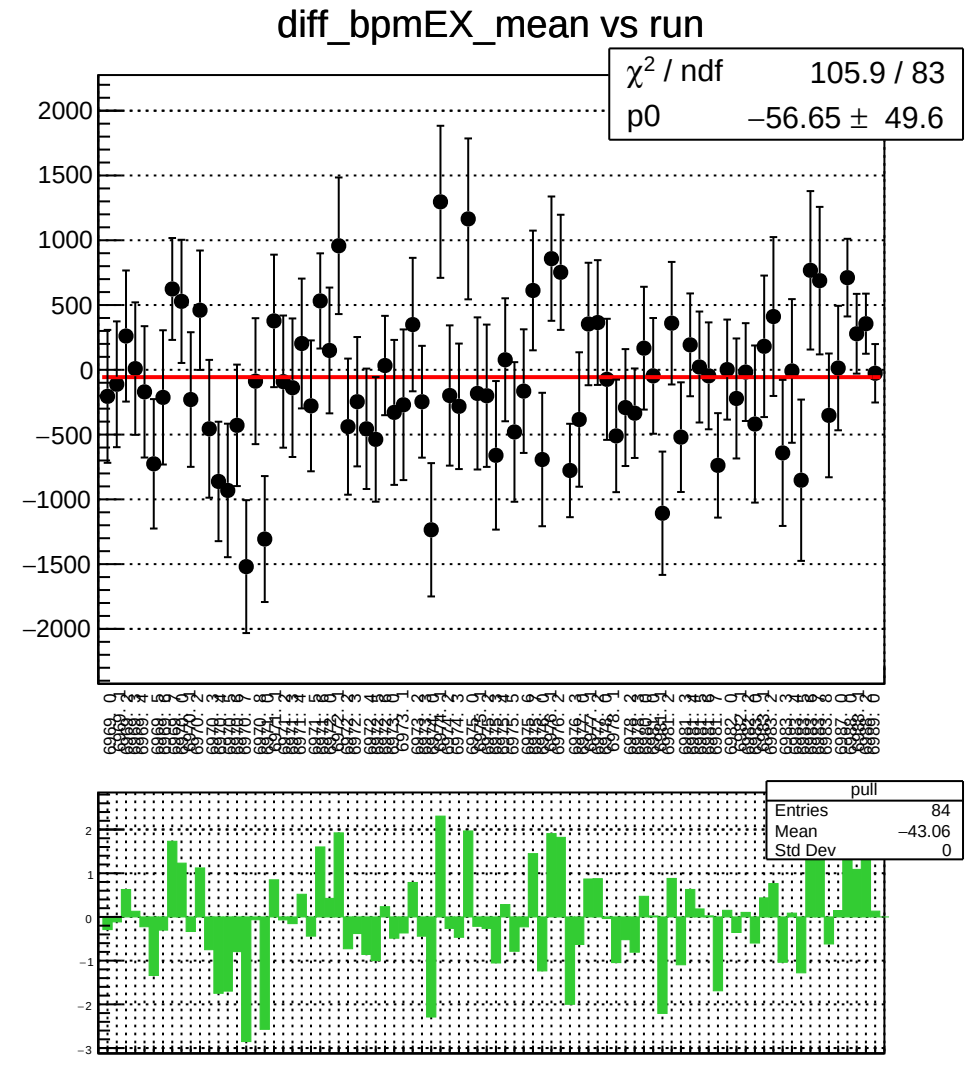

pull1D
Entries 84
Mean −0.0028
Std Dev 1.008

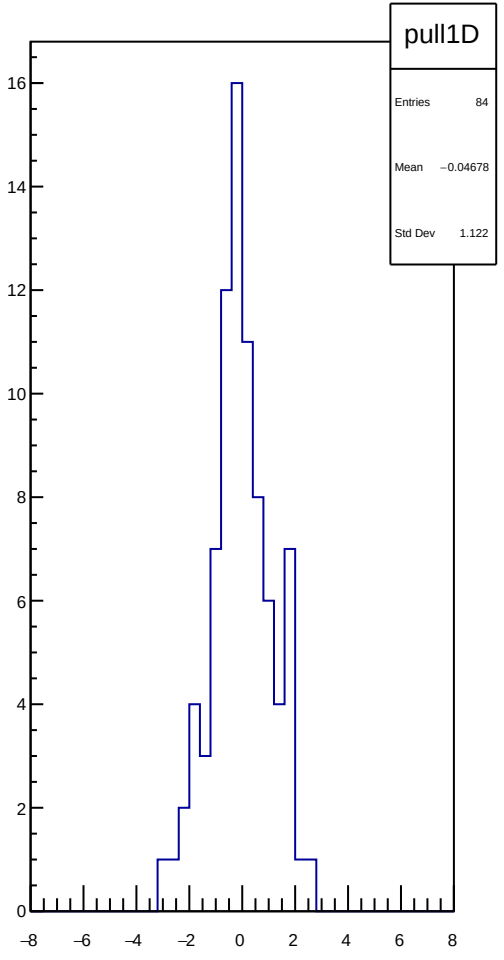

diff_targ_thetaY_rms vs run
χ^2 / ndf 1.294e+04 / 83
p0 361 ± 0.2801
440
420
400
380
360
340
320
300
280

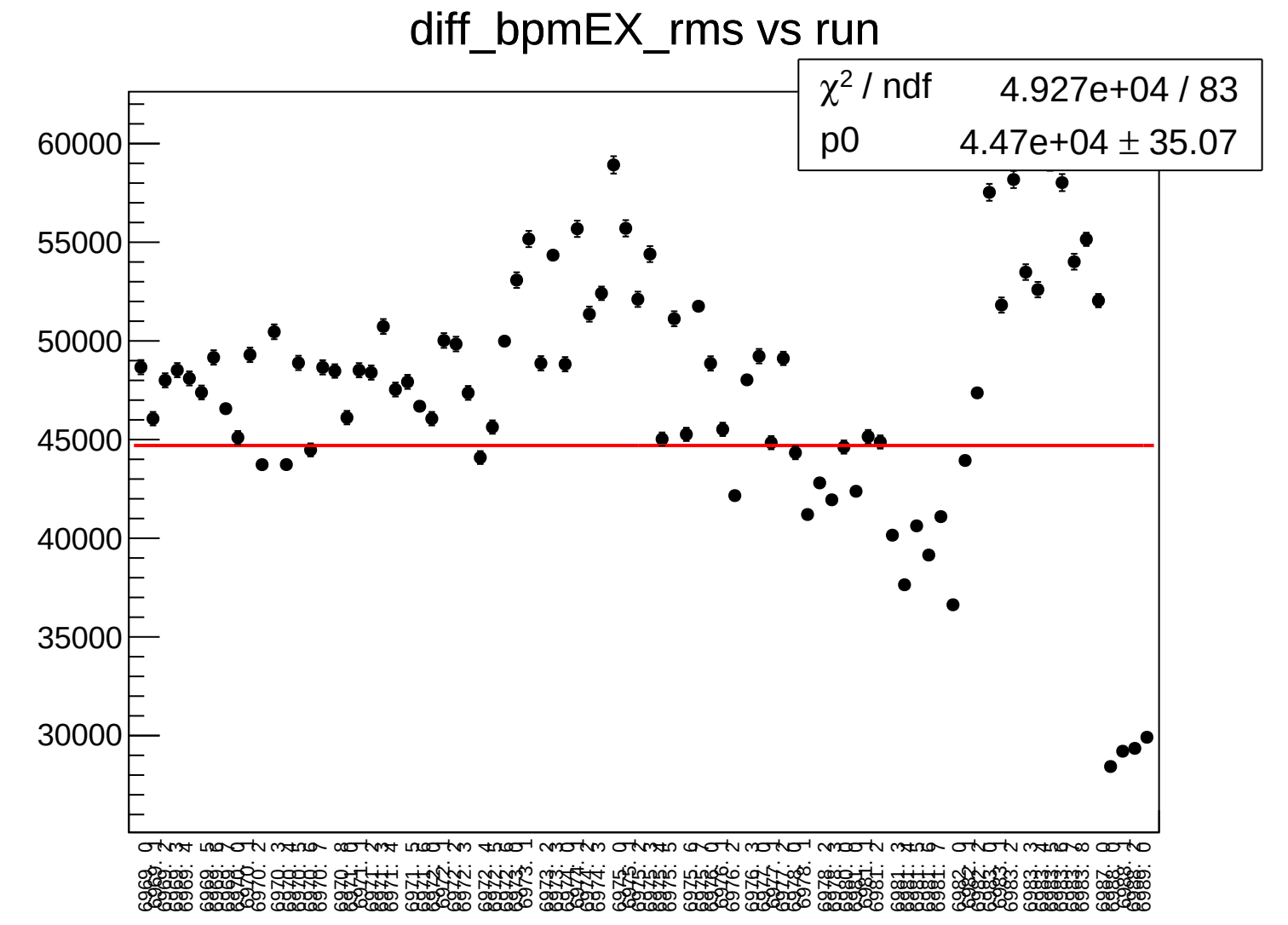

diff_bpmE_mean vs run
χ² / ndf 105.9 / 83
p0 −56.65 ± 49.6
pull
Entries 84
Mean −43.06
Std Dev 0

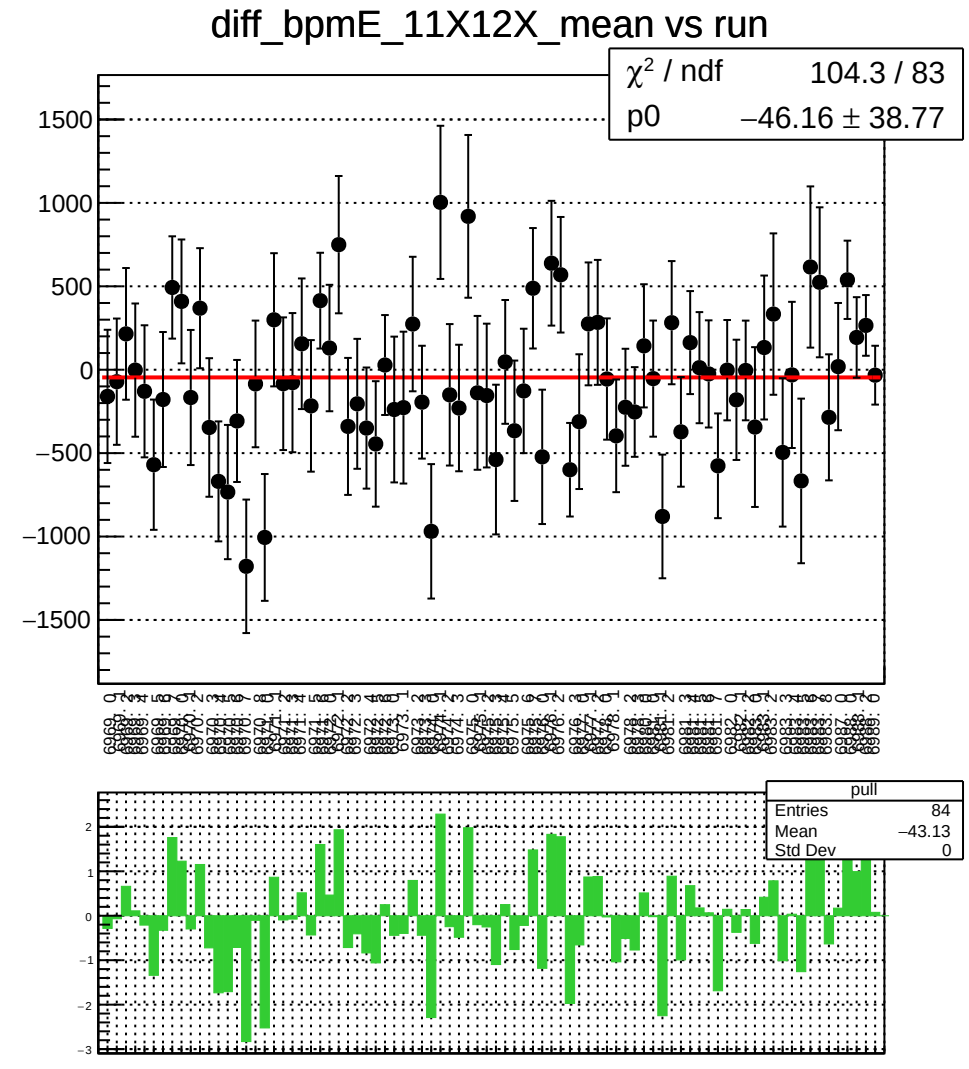

pull1D
Entries 84
Mean −0.04678
Std Dev 1.122

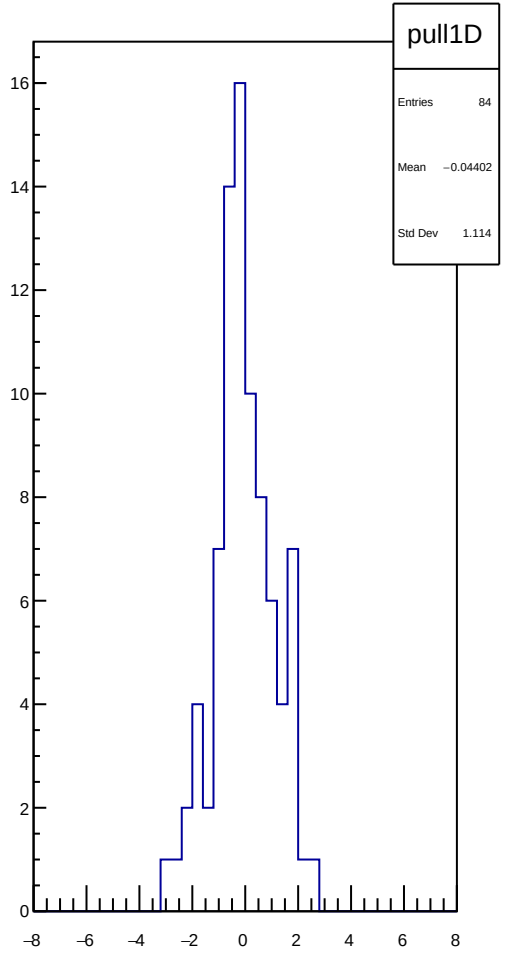

diff_bpmE_rms vs run
χ^2 / ndf 4.927e+04 / 83
p0 4.47e+04 ± 35.07
60000
55000
50000
45000
40000
35000
30000

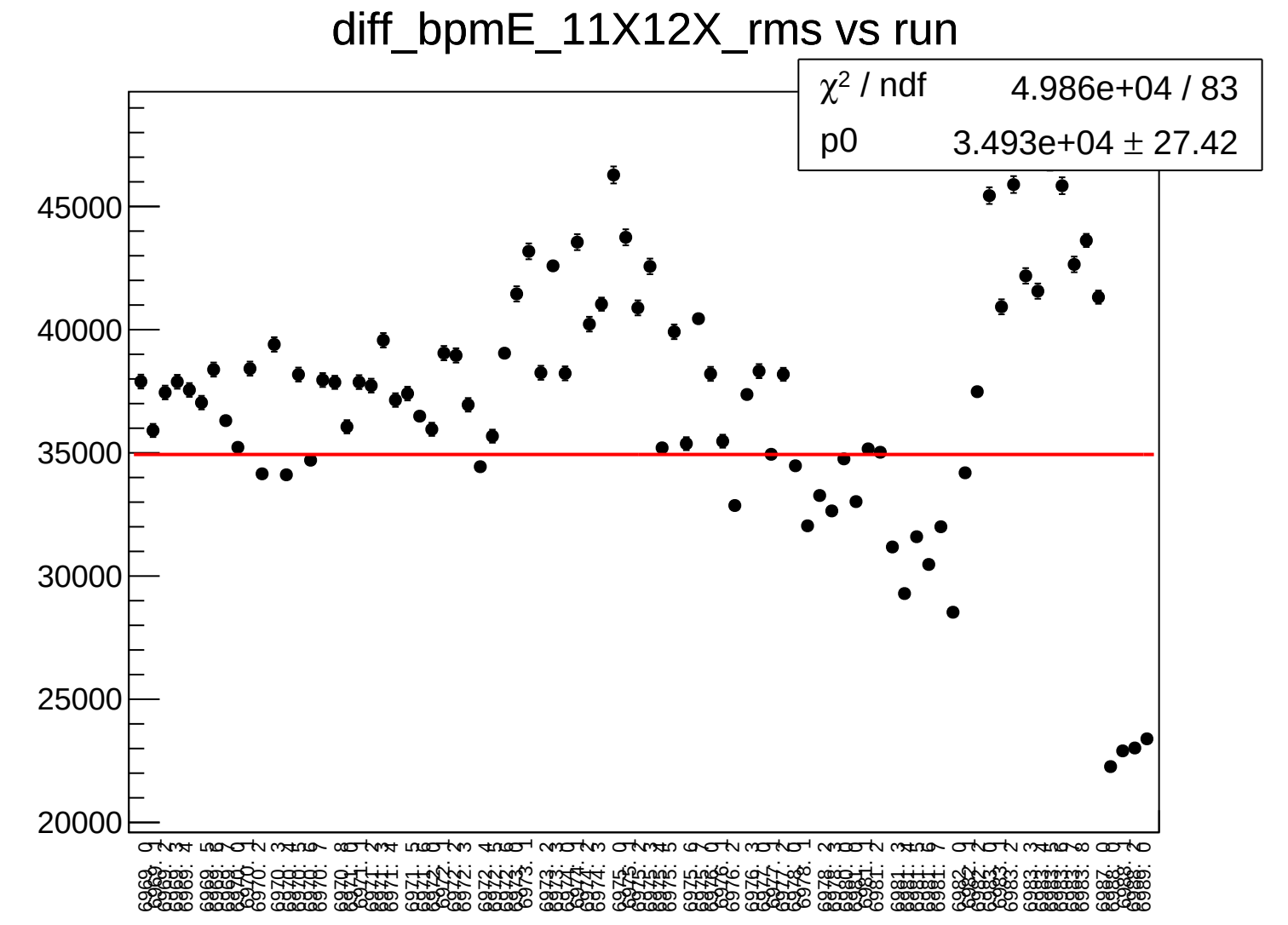

diff_bpmEX_mean vs run
χ² / ndf 105.9 / 83
p0 −56.65 ± 49.6
pull
Entries 84
Mean −43.06
Std Dev 0

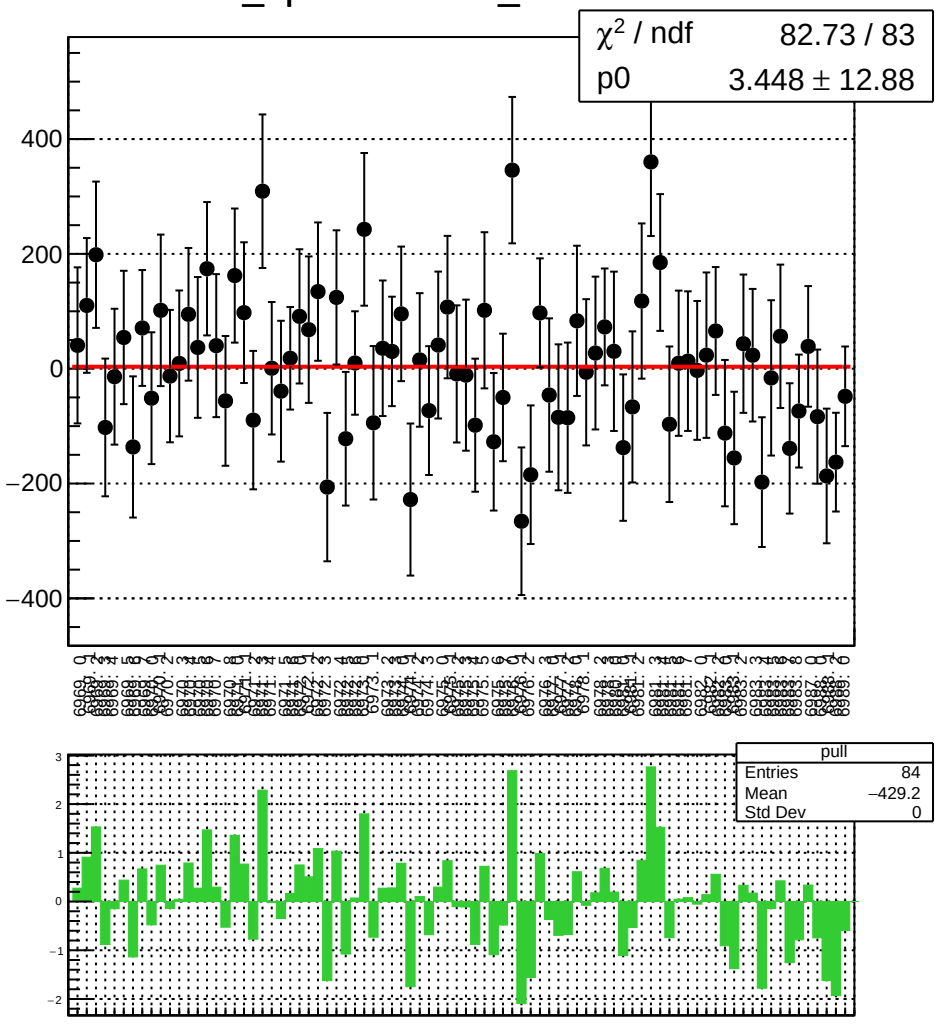

pull1D
Entries 84
Mean −0.04678
Std Dev 1.122

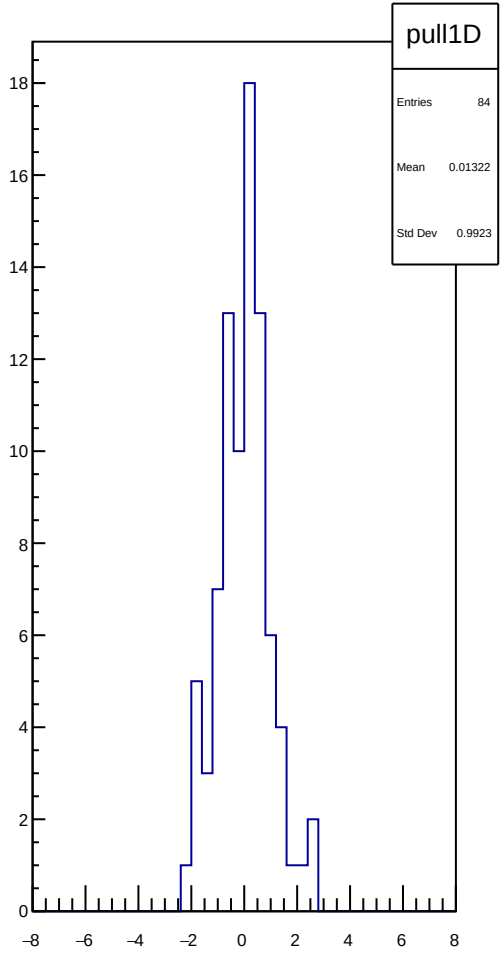

diff_bpmEX_rms vs run
χ^2 / ndf 4.927e+04 / 83
p0 4.47e+04 ± 35.07
60000
55000
50000
45000
40000
35000
30000

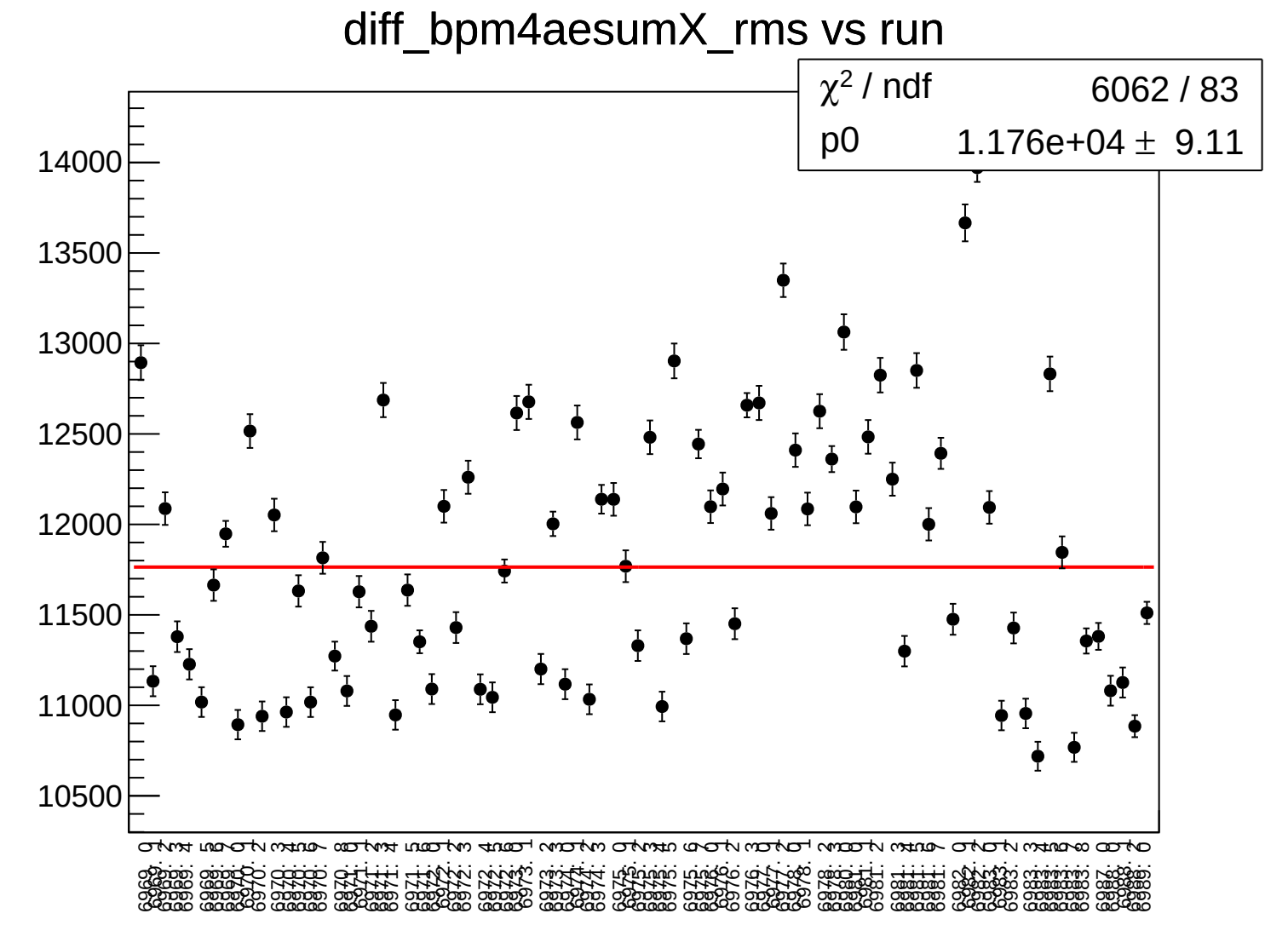

diff_bpmE_11X12X_mean vs run
χ² / ndf 104.3 / 83
p0 −46.16 ± 38.77
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −43.13
Std Dev 0
2
1
0
−1
−2
−3

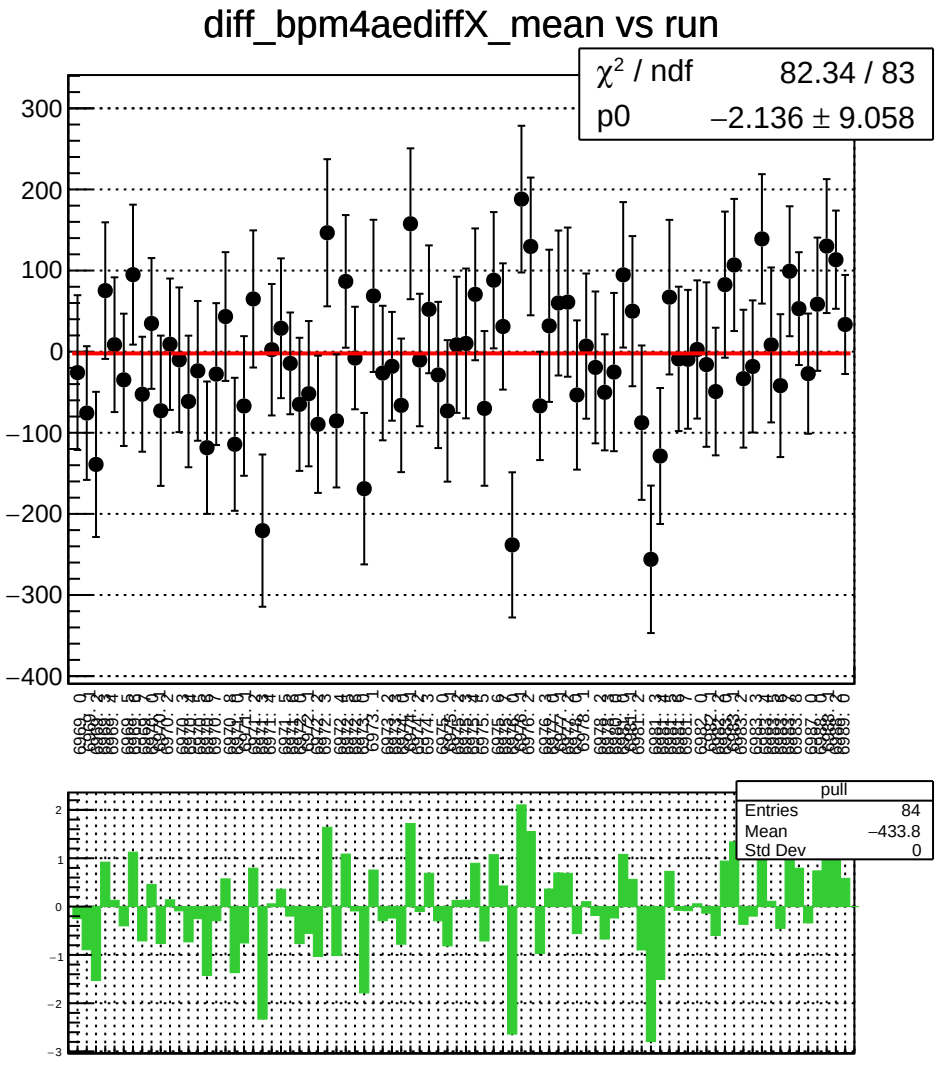

pull1D
Entries 84
Mean −0.04402
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

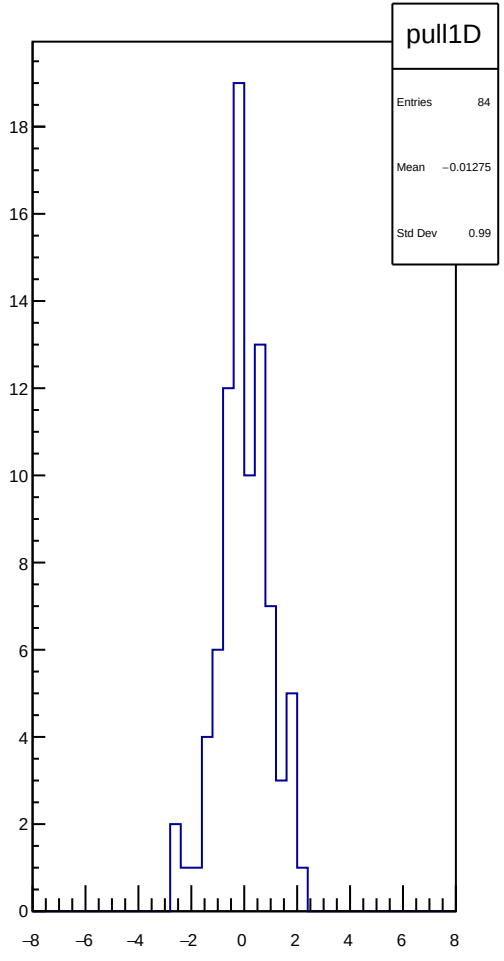

diff_bpmE_11X12X_rms vs run
χ² / ndf 4.986e+04 / 83
p0 3.493e+04 ± 27.42
45000
40000
35000
30000
25000
20000

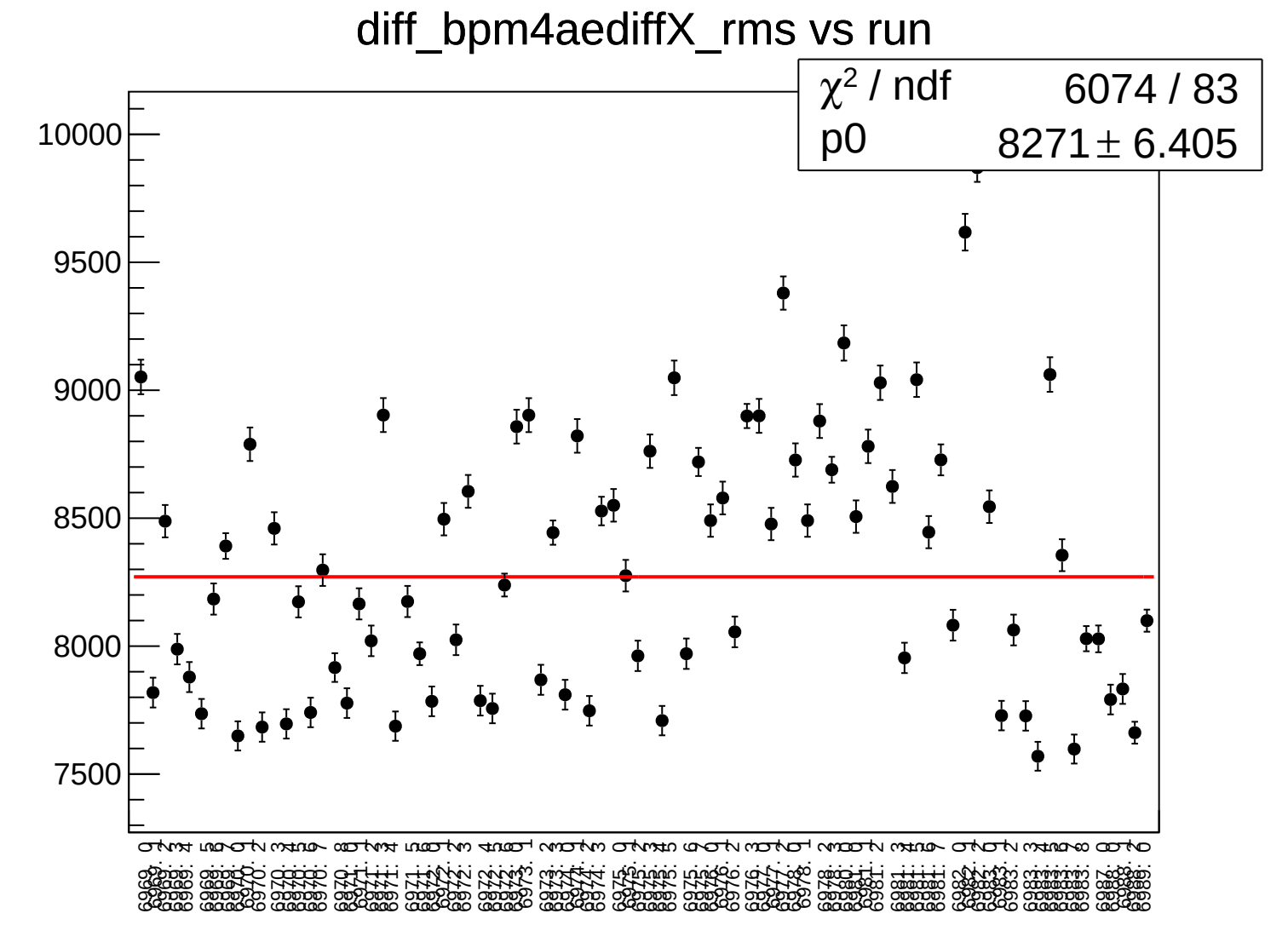

diff_bpm4aesumX_mean vs run
χ² / ndf 82.73 / 83
p0 3.448 ± 12.88
400
200
0
−200
−400
pull
Entries 84
Mean −429.2
Std Dev 0
3
2
1
0
−1
−2

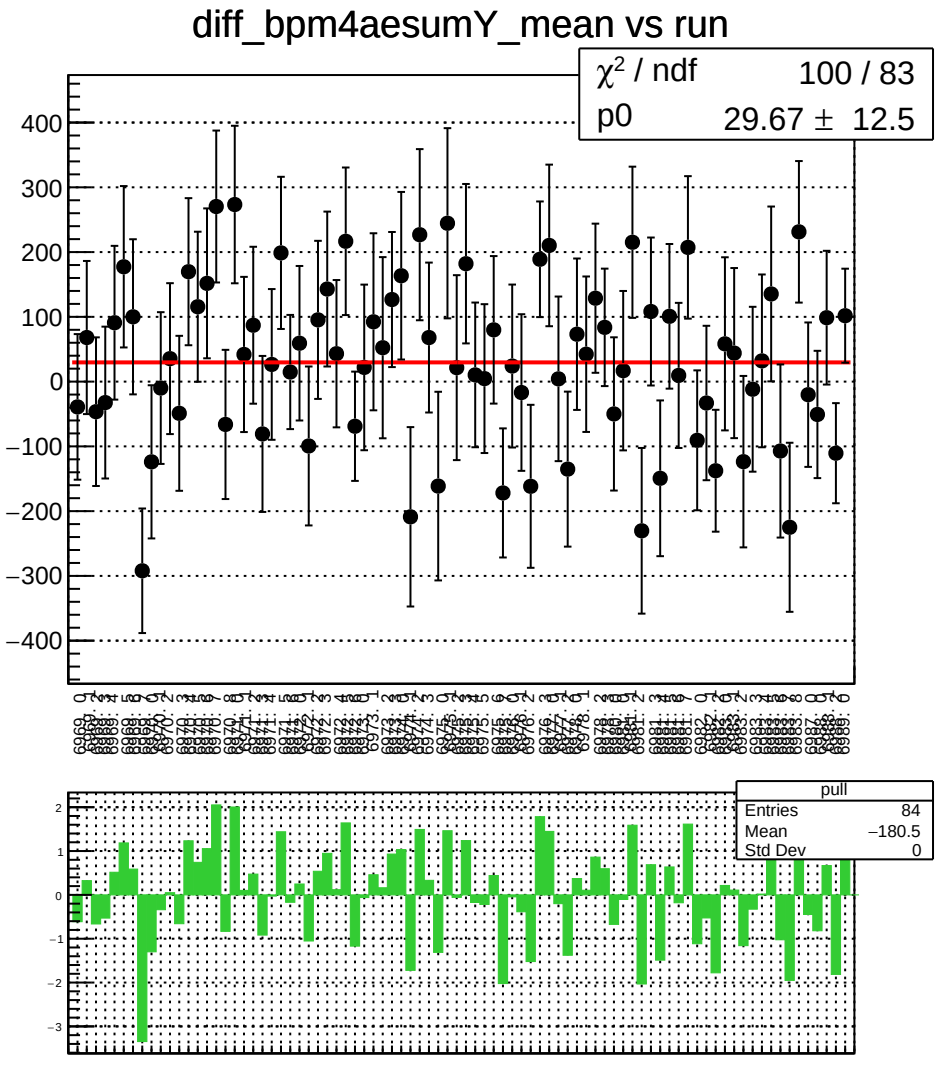

pull1D
Entries 84
Mean 0.01322
Std Dev 0.9923
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

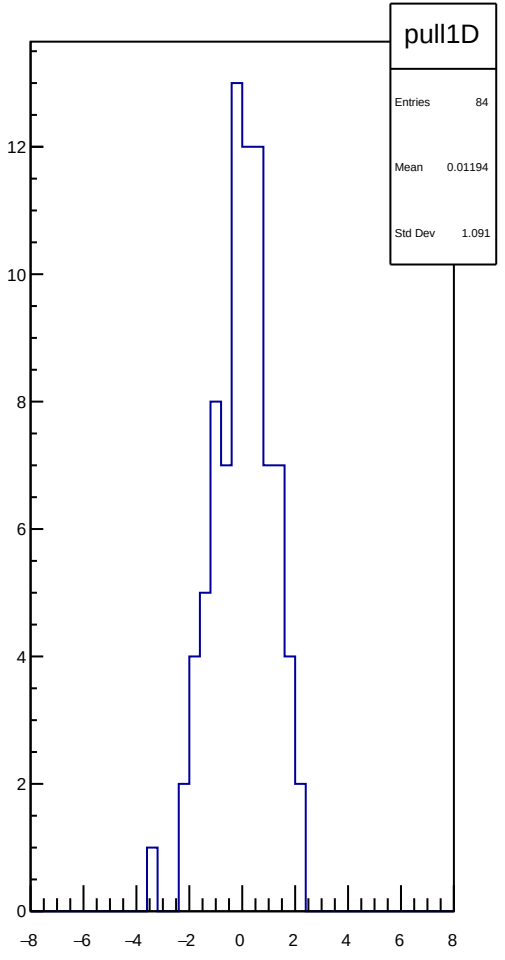

diff_bpm4aesumX_rms vs run
χ^2 / ndf 6062 / 83
p0 1.176e+04 ± 9.11
14000
13500
13000
12500
12000
11500
11000
10500

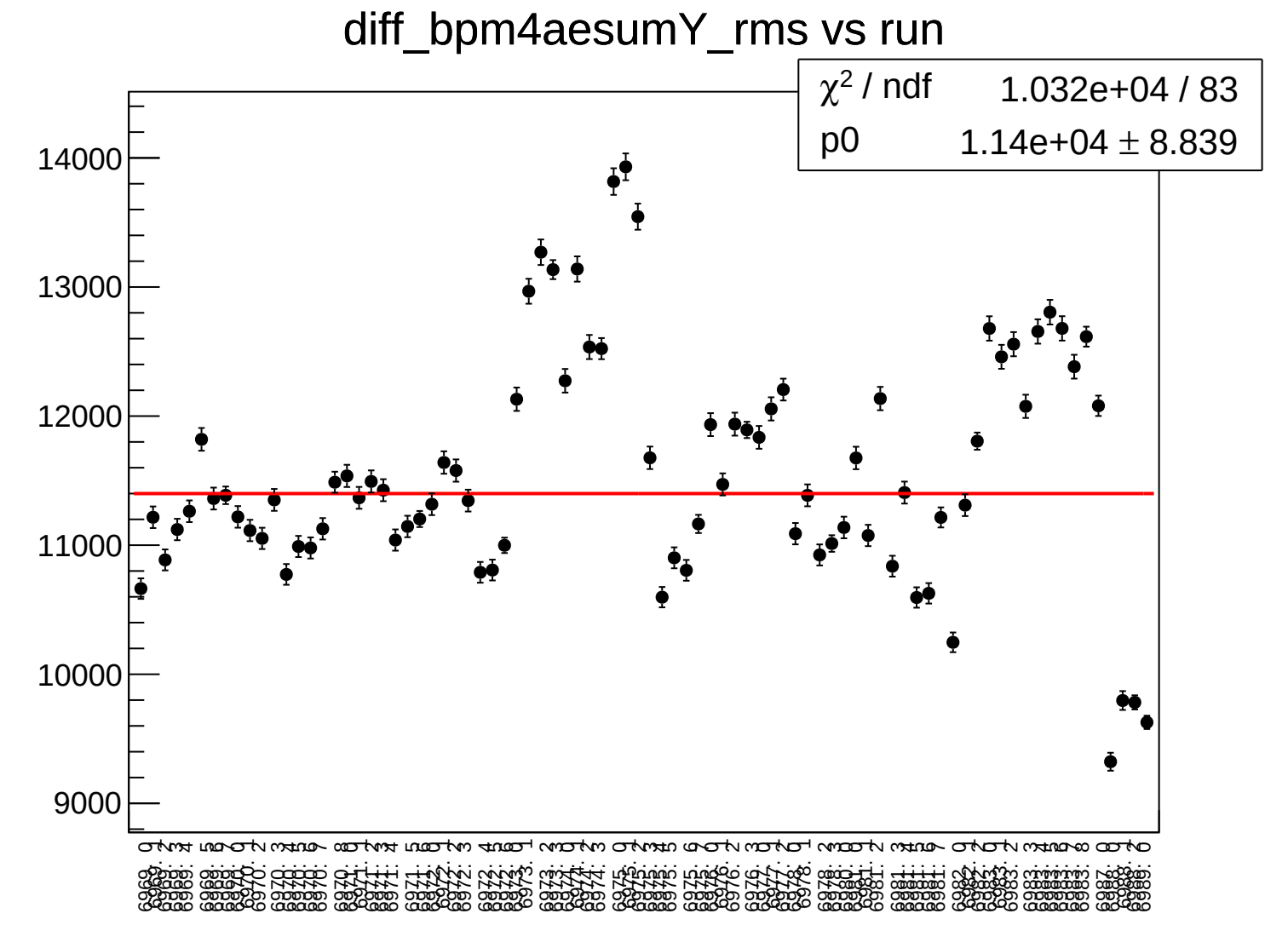

diff_bpm4aediffX_mean vs run
χ² / ndf 82.34 / 83
p0 −2.136 ± 9.058
pull
Entries 84
Mean −433.8
Std Dev 0

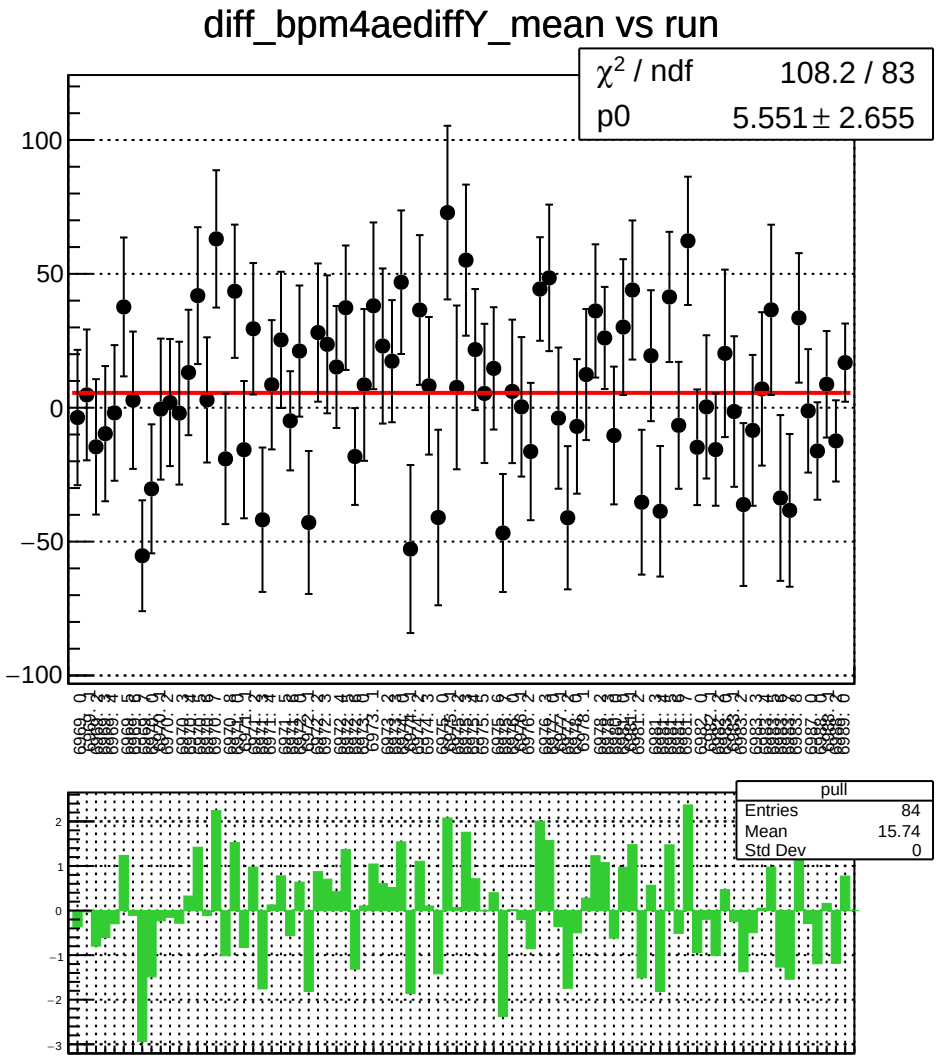

pull1D
Entries 84
Mean −0.01275
Std Dev 0.99

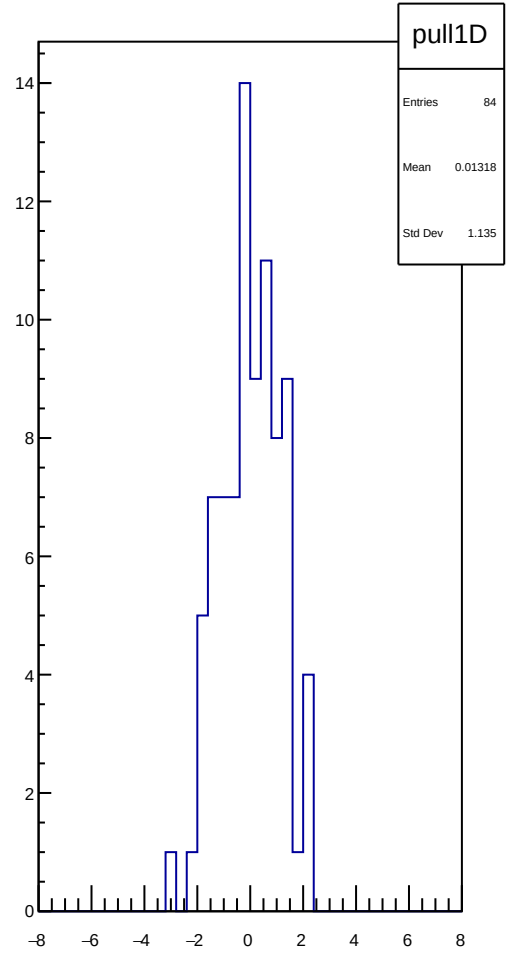

diff_bpm4aediffX_rms vs run
χ² / ndf 6074 / 83
p0 8271 ± 6.405
10000
9500
9000
8500
8000
7500

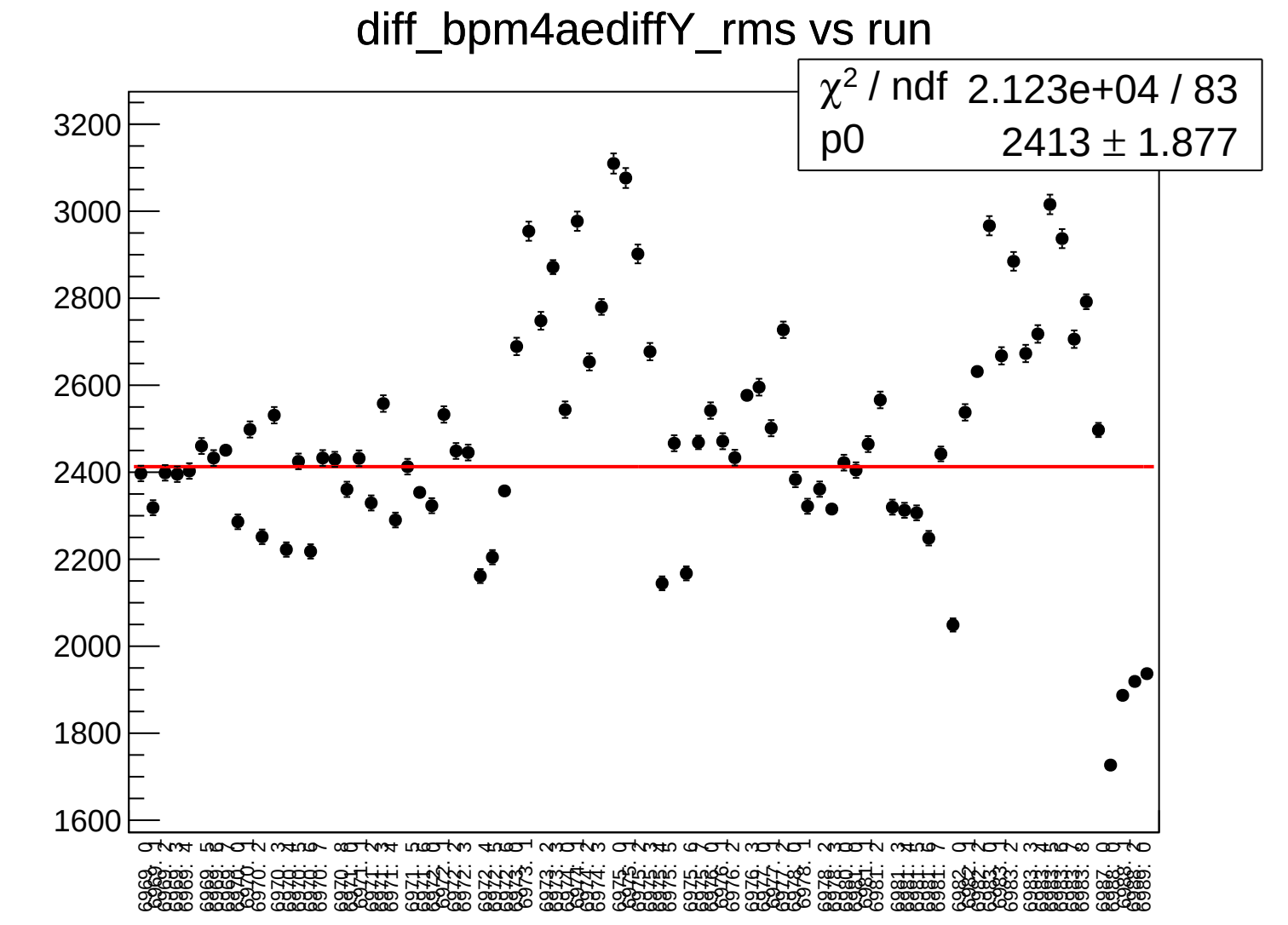

diff_bpm4aesumY_mean vs run
χ² / ndf 100 / 83
p0 29.67 ± 12.5
pull
Entries 84
Mean −180.5
Std Dev 0

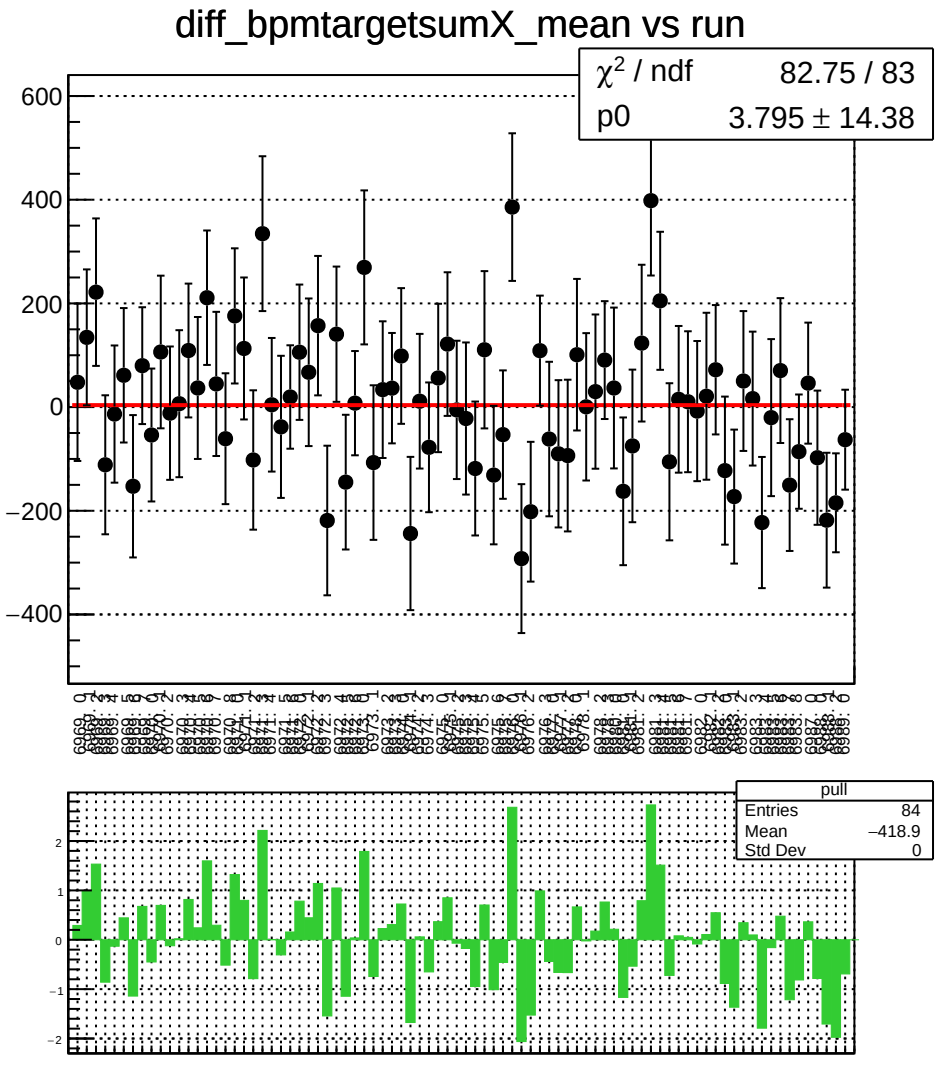

pull1D
Entries 84
Mean 0.01194
Std Dev 1.091

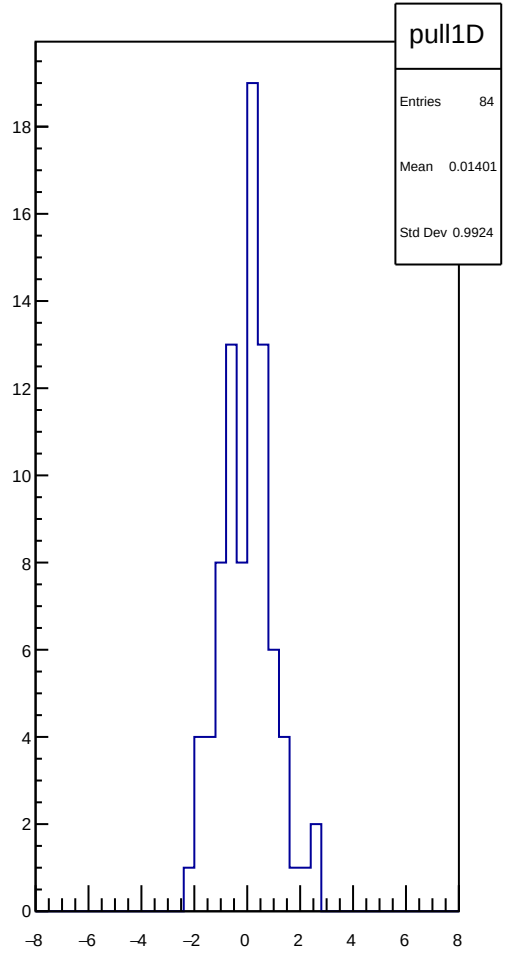

diff_bpm4aesumY_rms vs run
χ² / ndf 1.032e+04 / 83
p0 1.14e+04 ± 8.839
14000
13000
12000
11000
10000
9000

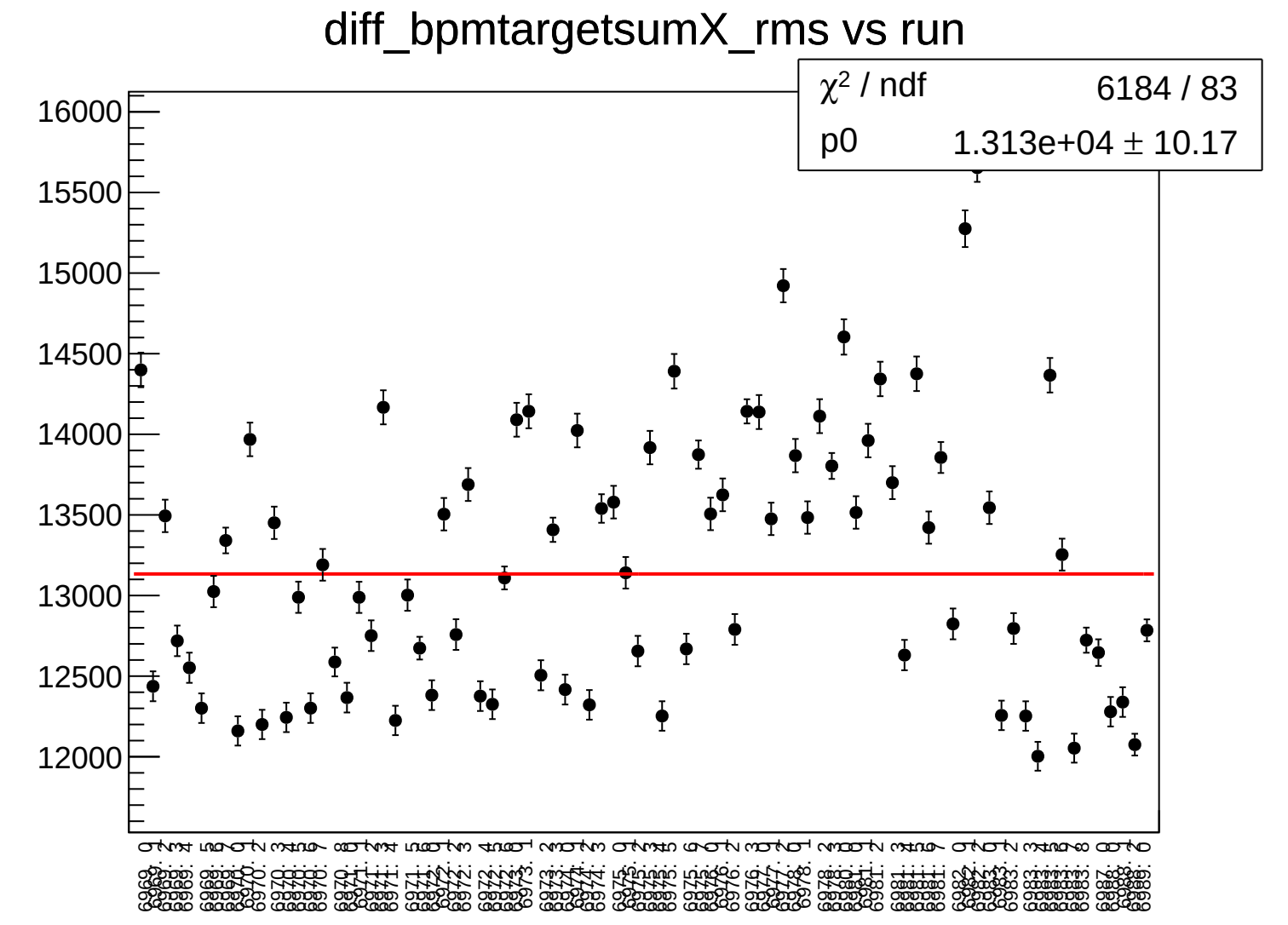

diff_bpm4aediffY_mean vs run
χ² / ndf 108.2 / 83
p0 5.551 ± 2.655
100
50
0
−50
−100
pull
Entries 84
Mean 15.74
Std Dev 0
2
1
0
−1
−2
−3

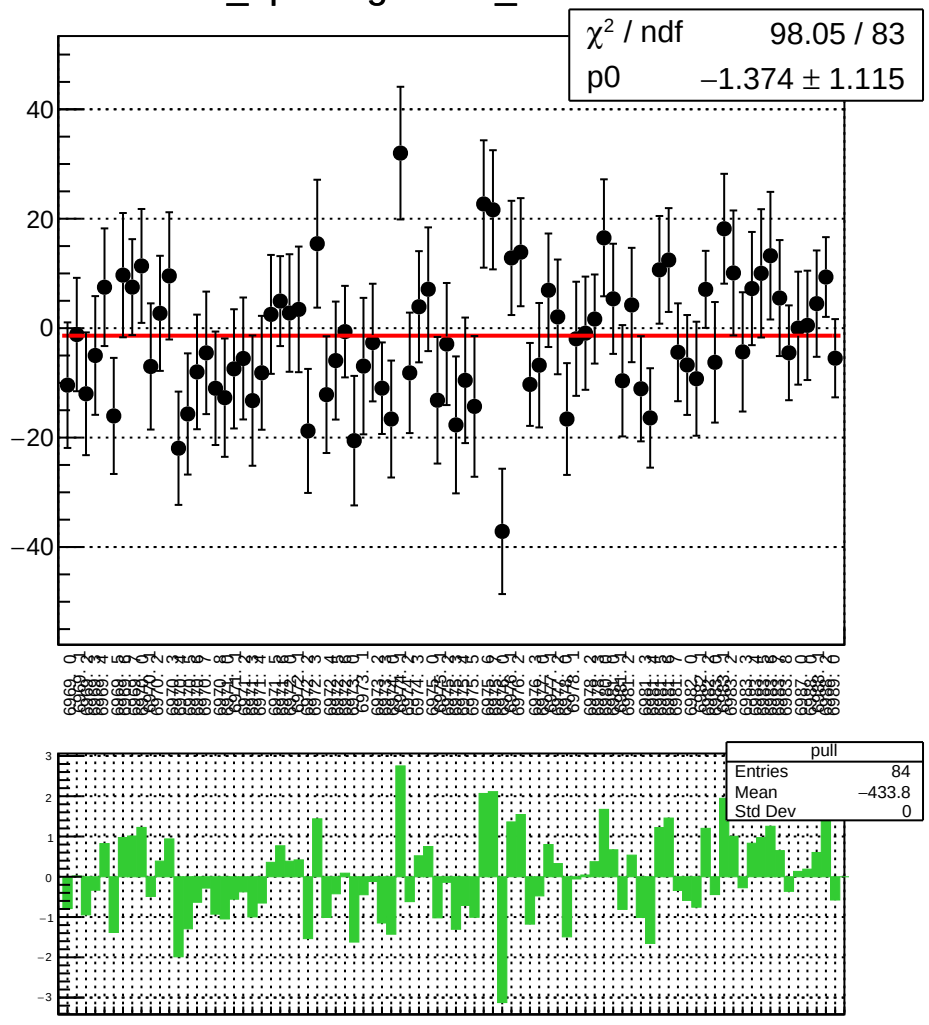

pull1D
Entries 84
Mean 0.01318
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

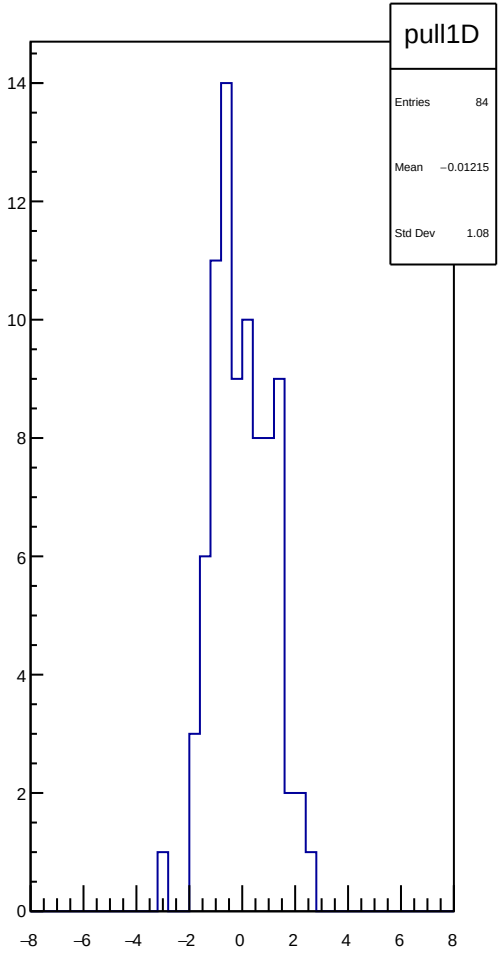

diff_bpm4aediffY_rms vs run
χ² / ndf 2.123e+04 / 83
p0 2413 ± 1.877
3200
3000
2800
2600
2400
2200
2000
1800
1600

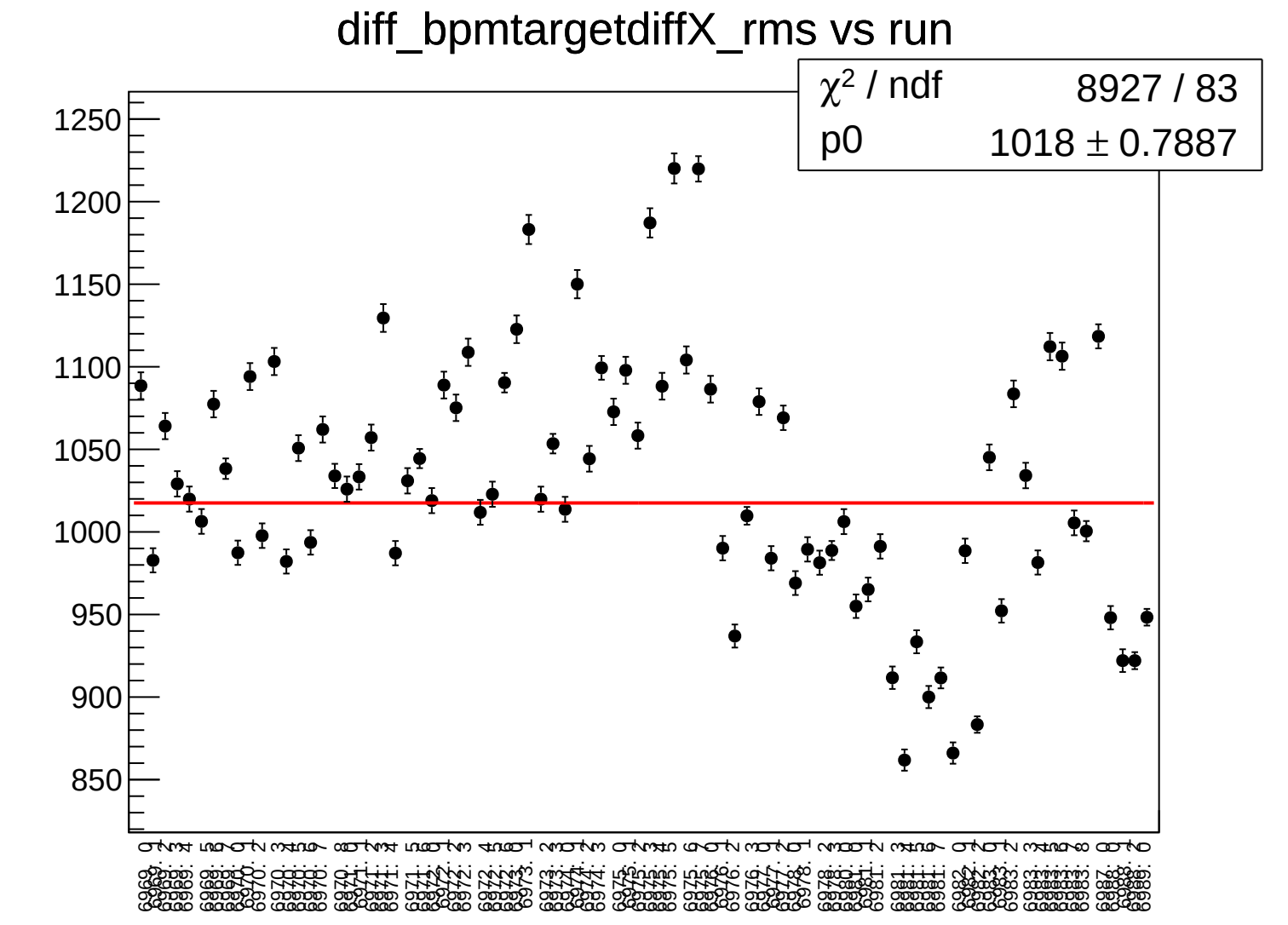

diff_bpmtargetsumX_mean vs run
χ^2 / ndf 82.75 / 83
p0 3.795 ± 14.38
600
400
200
0
−200
−400
pull
Entries 84
Mean −418.9
Std Dev 0
2
1
0
−1
−2

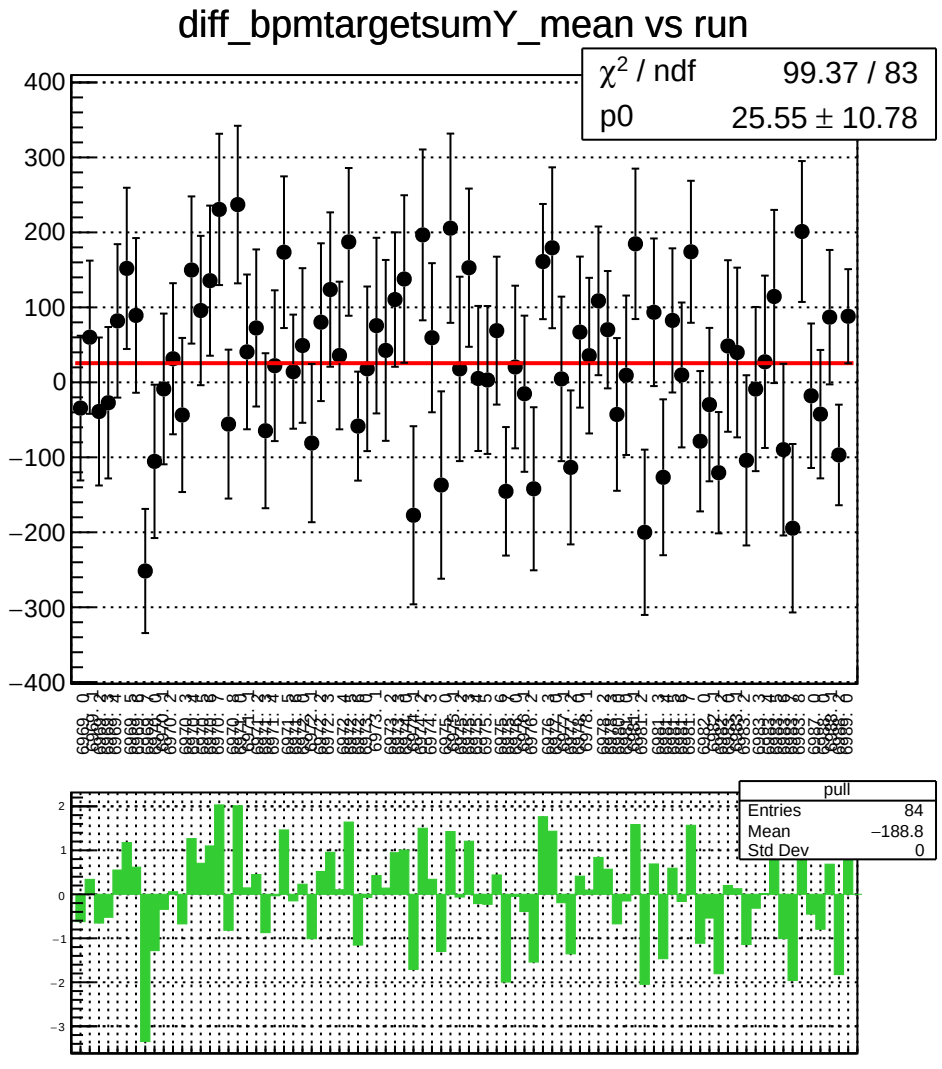

pull1D
Entries 84
Mean 0.01401
Std Dev 0.9924
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

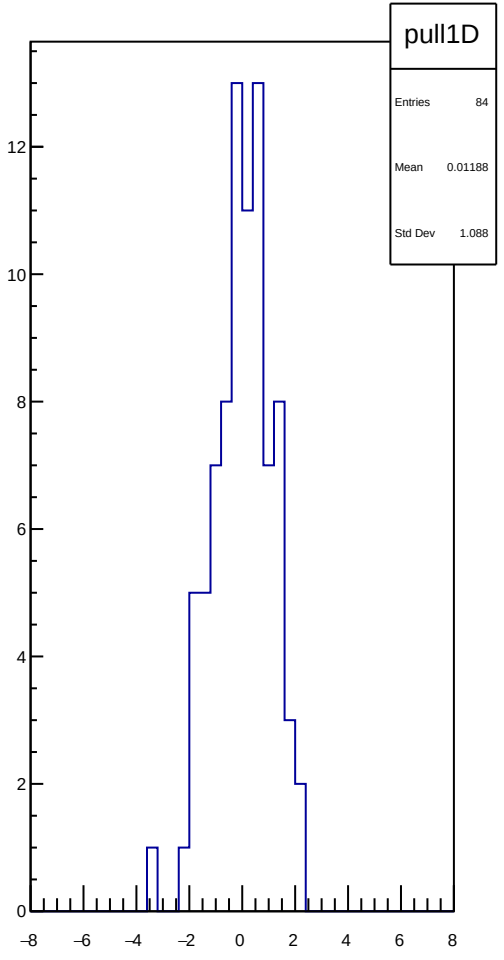

diff_bpmtargetsumX_rms vs run
χ² / ndf 6184 / 83
p0 1.313e+04 ± 10.17
16000
15500
15000
14500
14000
13500
13000
12500
12000

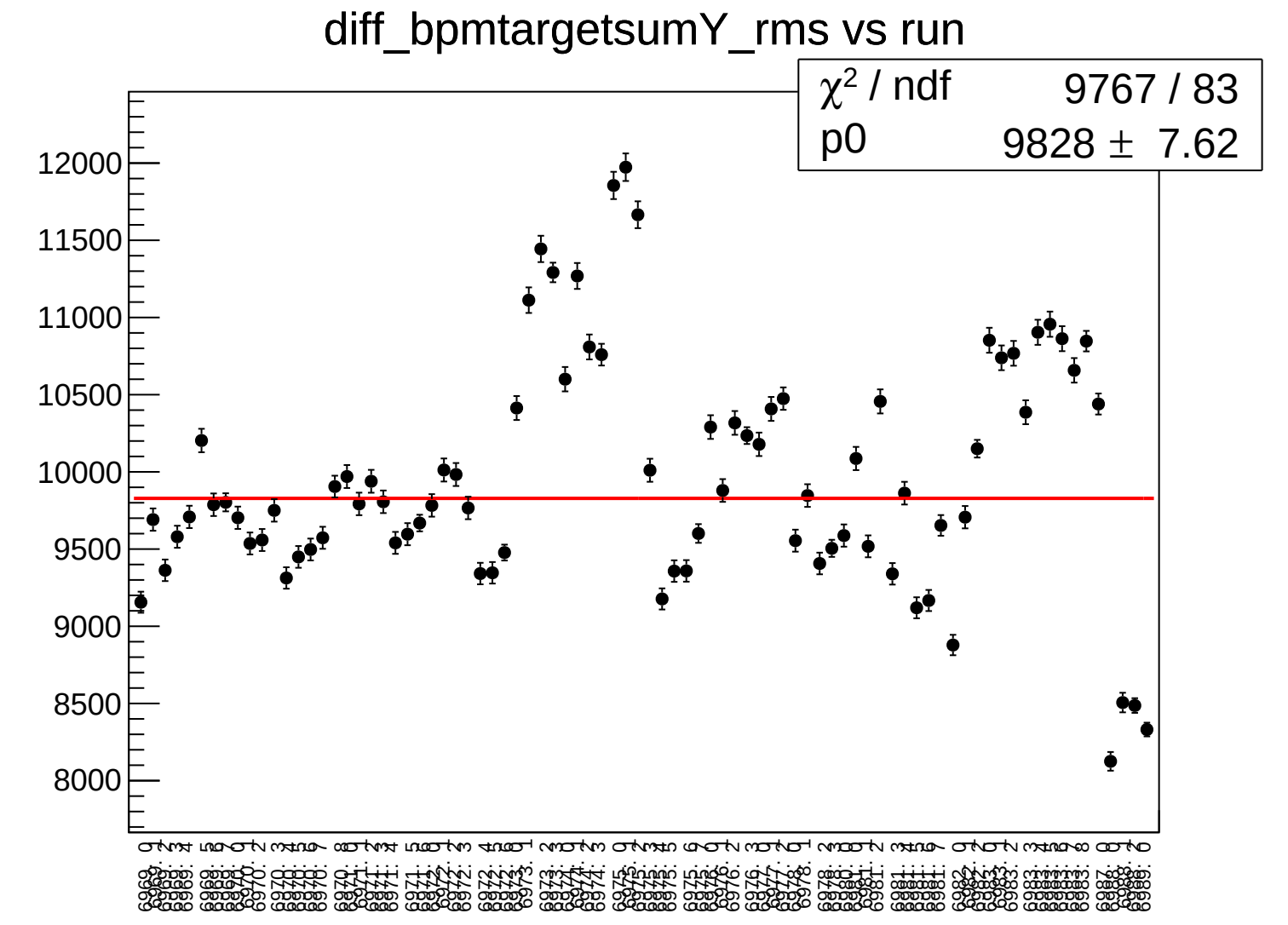

diff_bpmtargetdiffX_mean vs run
χ² / ndf 98.05 / 83
p0 −1.374 ± 1.115
pull
Entries 84
Mean −433.8
Std Dev 0

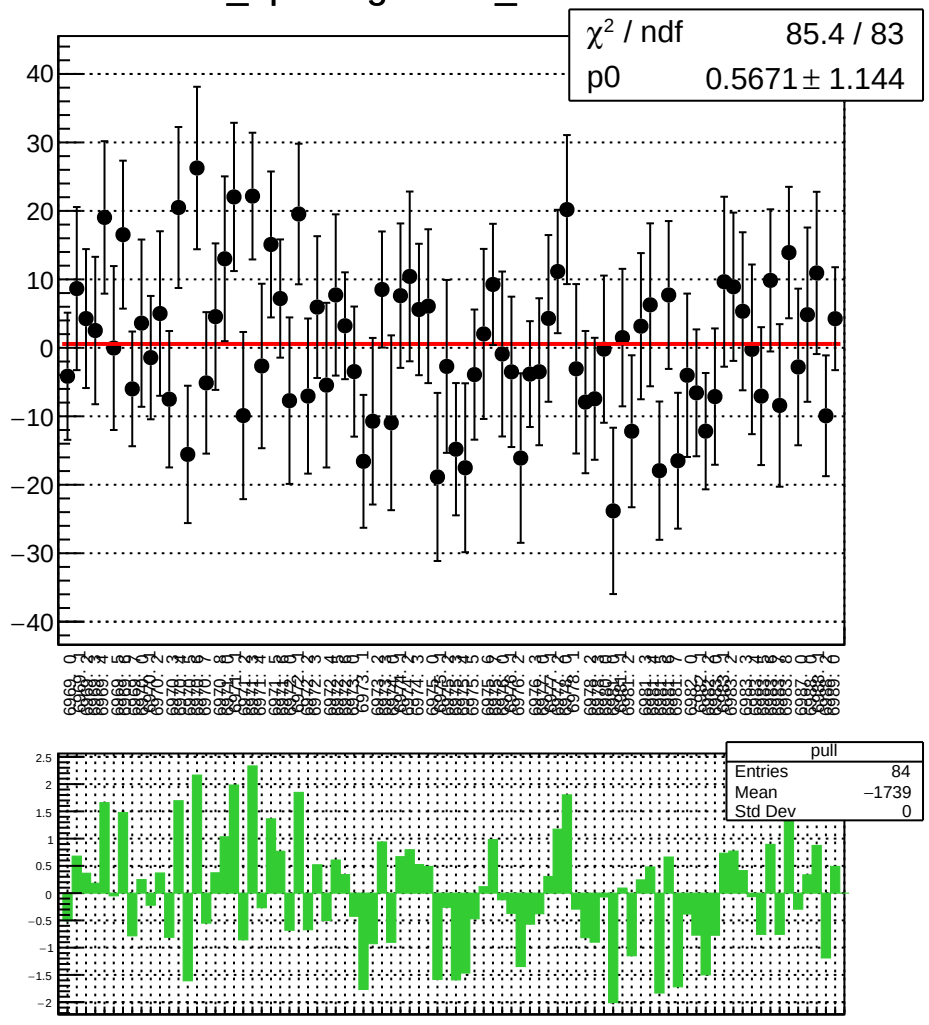

pull1D
Entries 84
Mean −0.01215
Std Dev 1.08

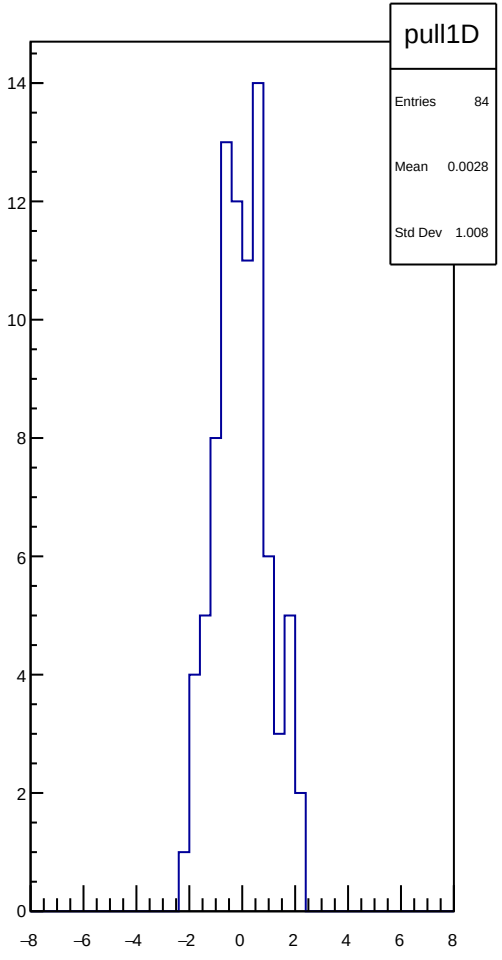

diff_bpmtargetdiffX_rms vs run
χ² / ndf 8927 / 83
p0 1018 ± 0.7887
1250
1200
1150
1100
1050
1000
950
900
850

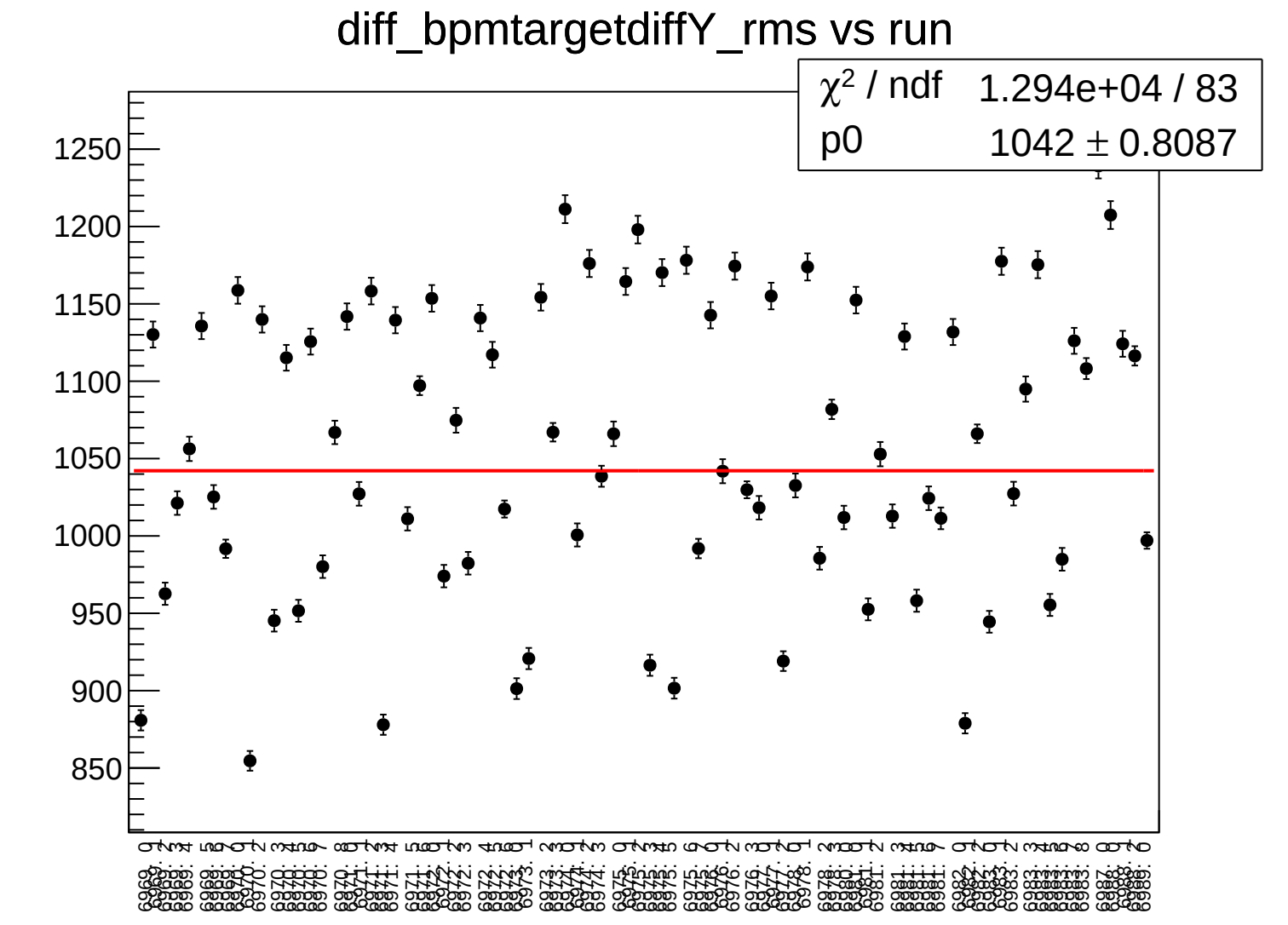

diff_bpmtargetsumY_mean vs run
χ² / ndf 99.37 / 83
p0 25.55 ± 10.78
pull
Entries 84
Mean −188.8
Std Dev 0

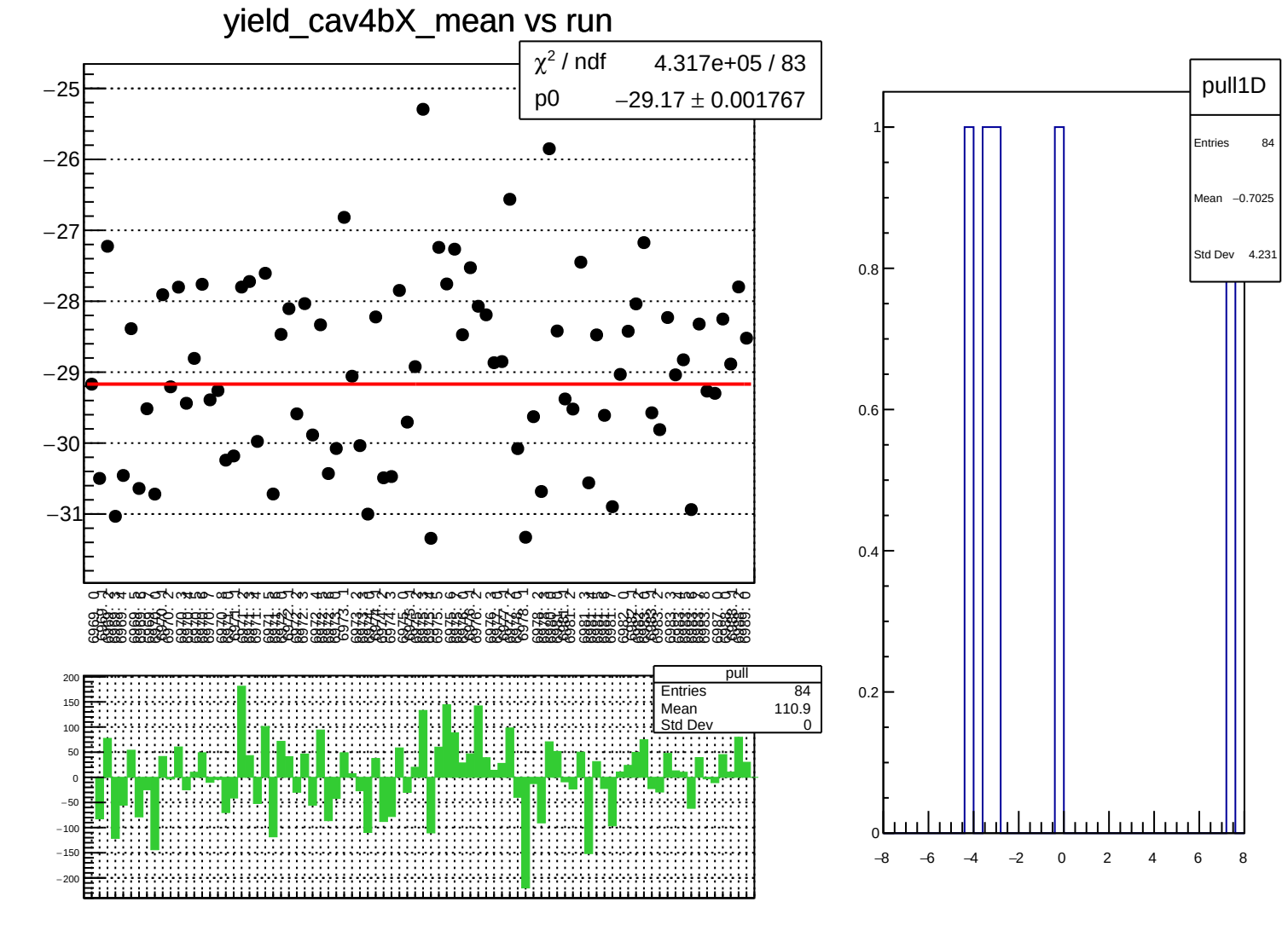

pull1D
Entries 84
Mean 0.01188
Std Dev 1.088

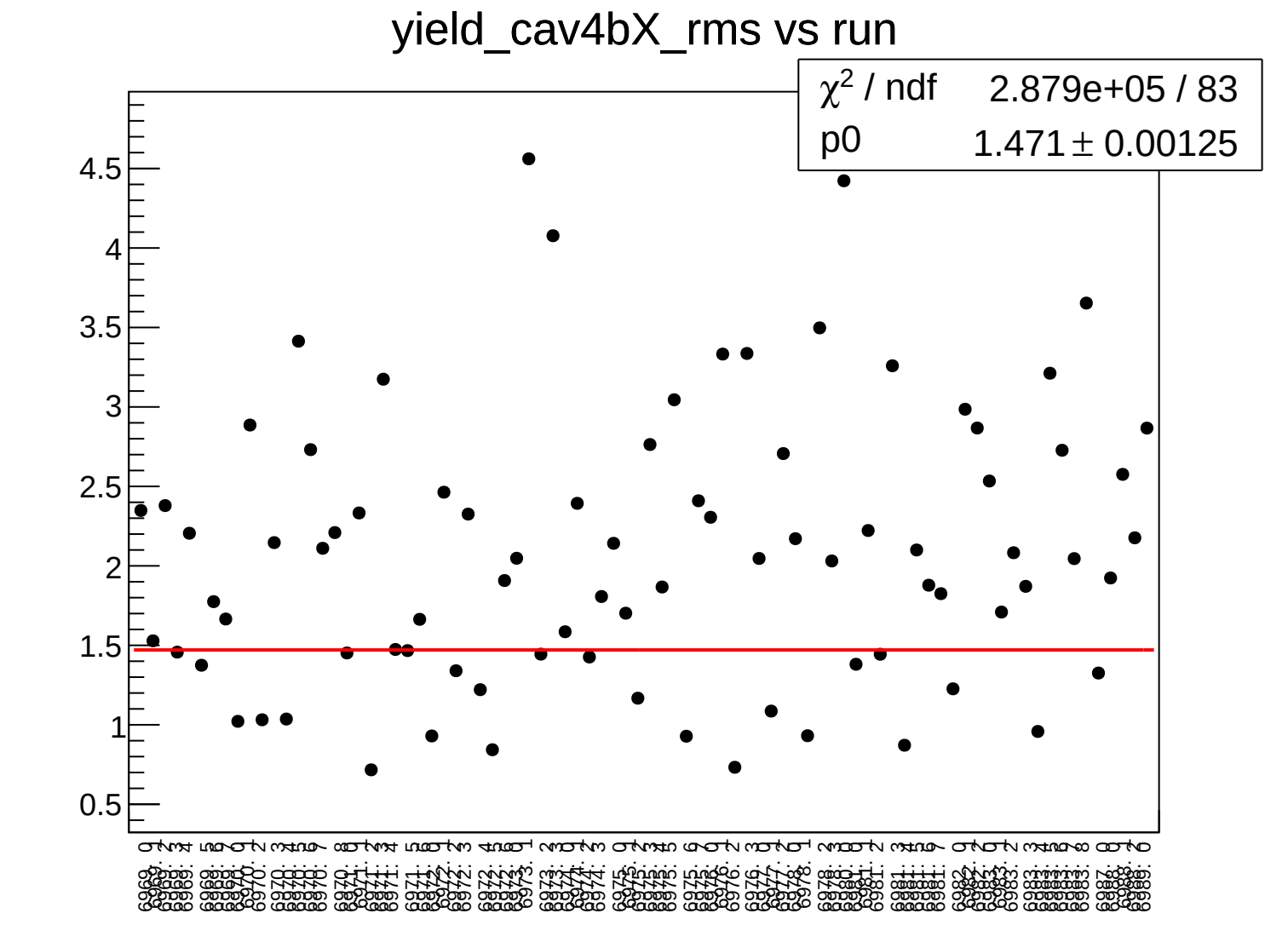

diff_bpmtargetsumY_rms vs run
χ² / ndf 9767 / 83
p0 9828 ± 7.62
12000
11500
11000
10500
10000
9500
9000
8500
8000

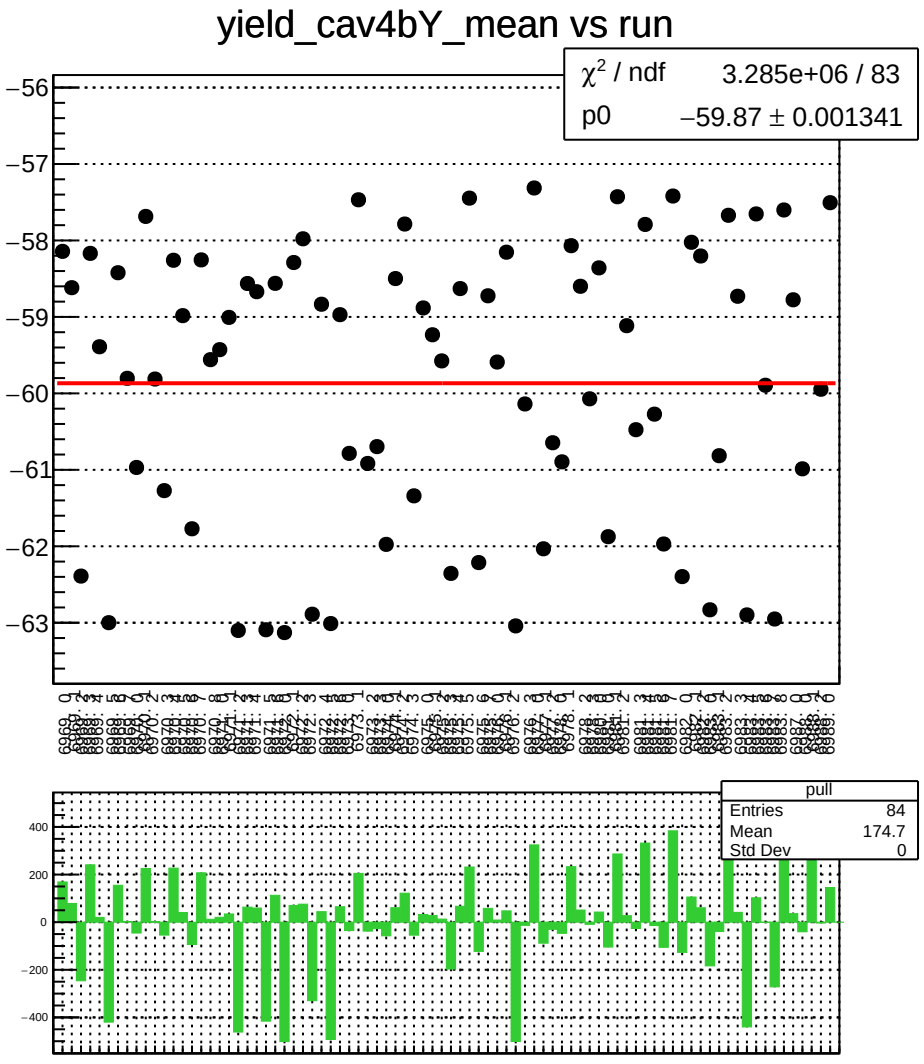

diff_bpmtargetdiffY_mean vs run
χ² / ndf 85.4 / 83
p0 0.5671 ± 1.144
pull
Entries 84
Mean −1739
Std Dev 0

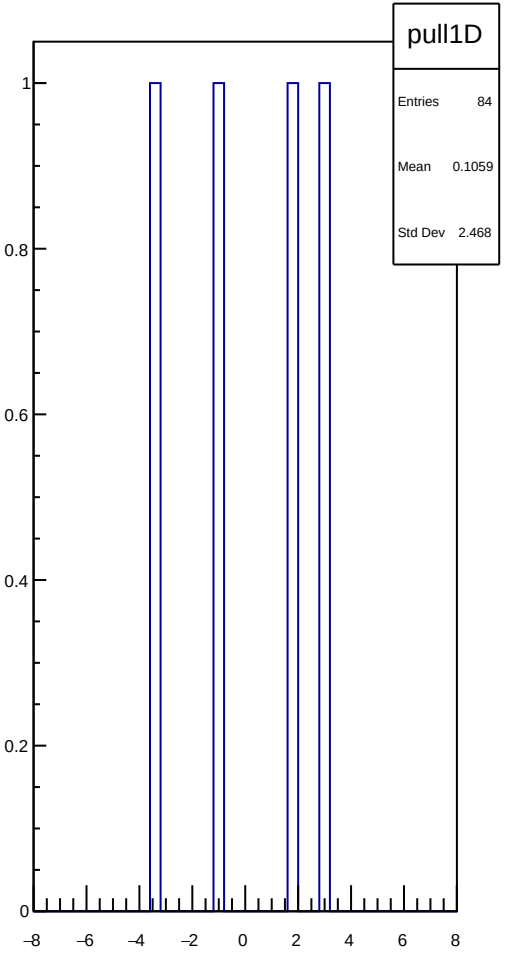

pull1D
Entries 84
Mean 0.0028
Std Dev 1.008

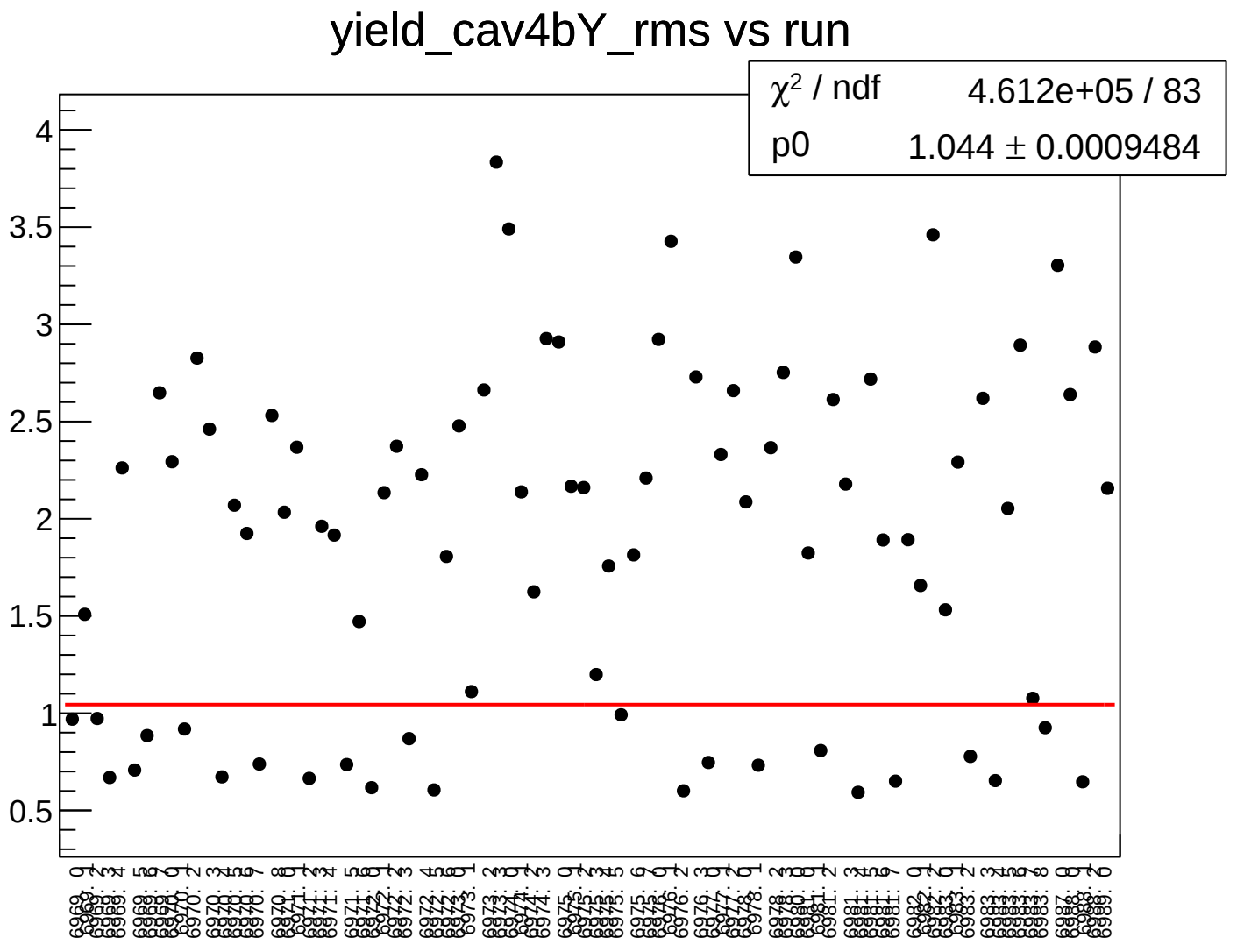

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.294e+04 / 83
p0 1042 ± 0.8087
1250
1200
1150
1100
1050
1000
950
900
850

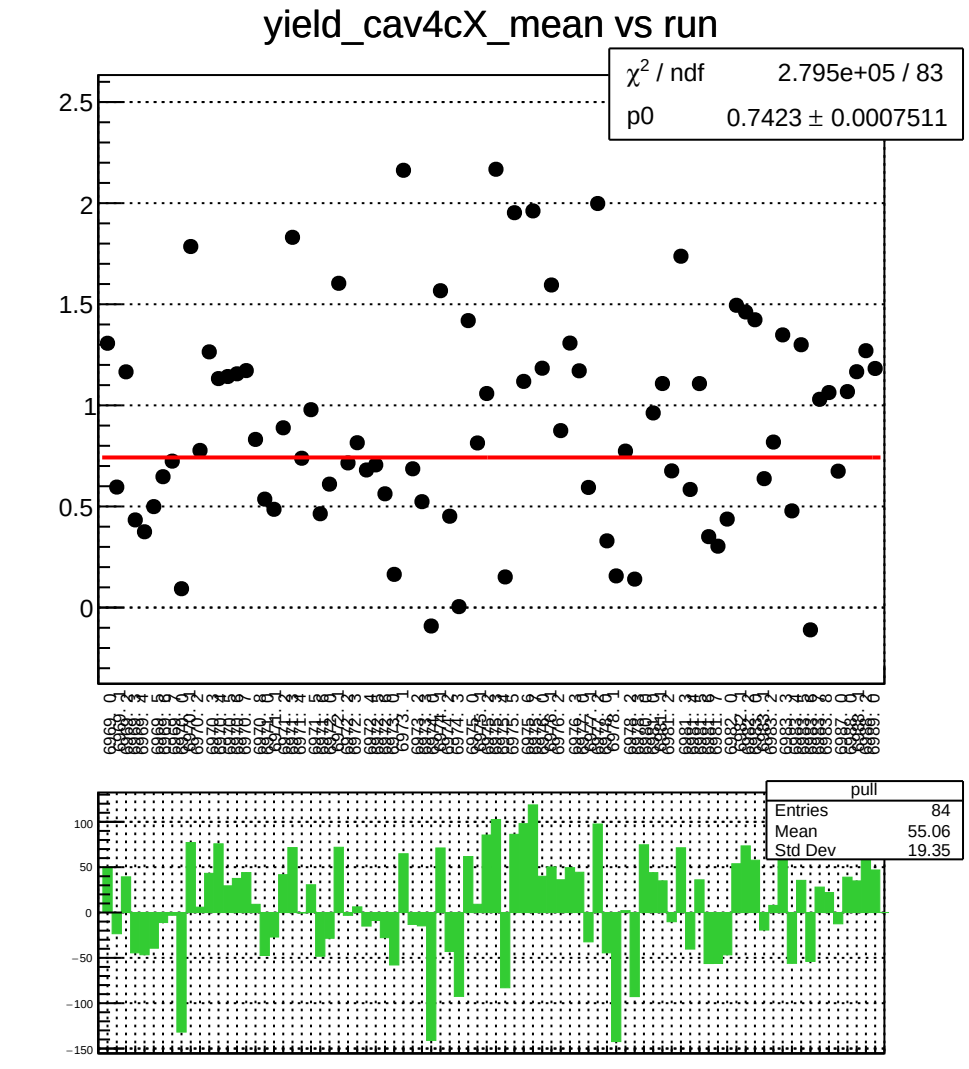

yield_cav4bX_mean vs run
χ² / ndf 4.317e+05 / 83
p0 −29.17 ± 0.001767
pull
Entries 84
Mean 110.9
Std Dev 0
pull1D
Entries 84
Mean −0.7025
Std Dev 4.231

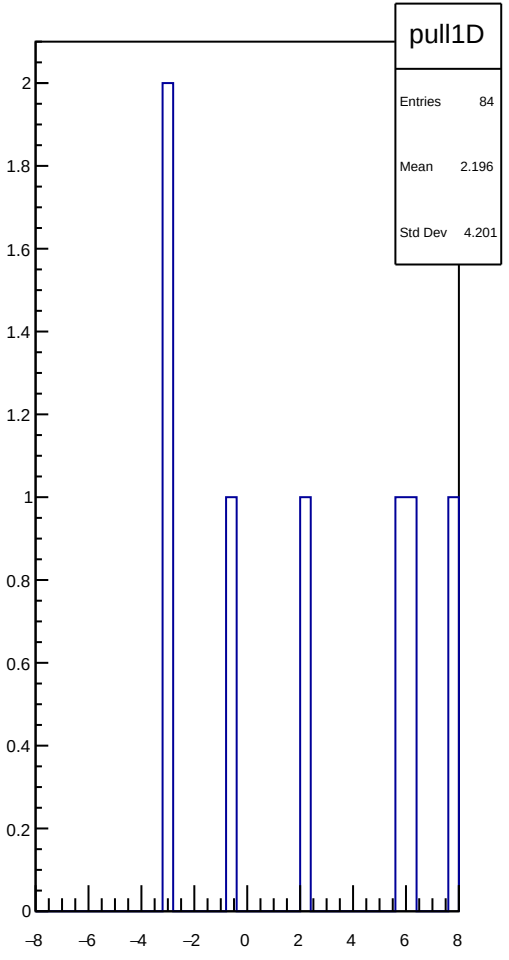

yield_cav4bX_rms vs run
χ^2 / ndf 2.879e+05 / 83
p0 1.471 ± 0.00125
4.5
4
3.5
3
2.5
2
1.5
1
0.5

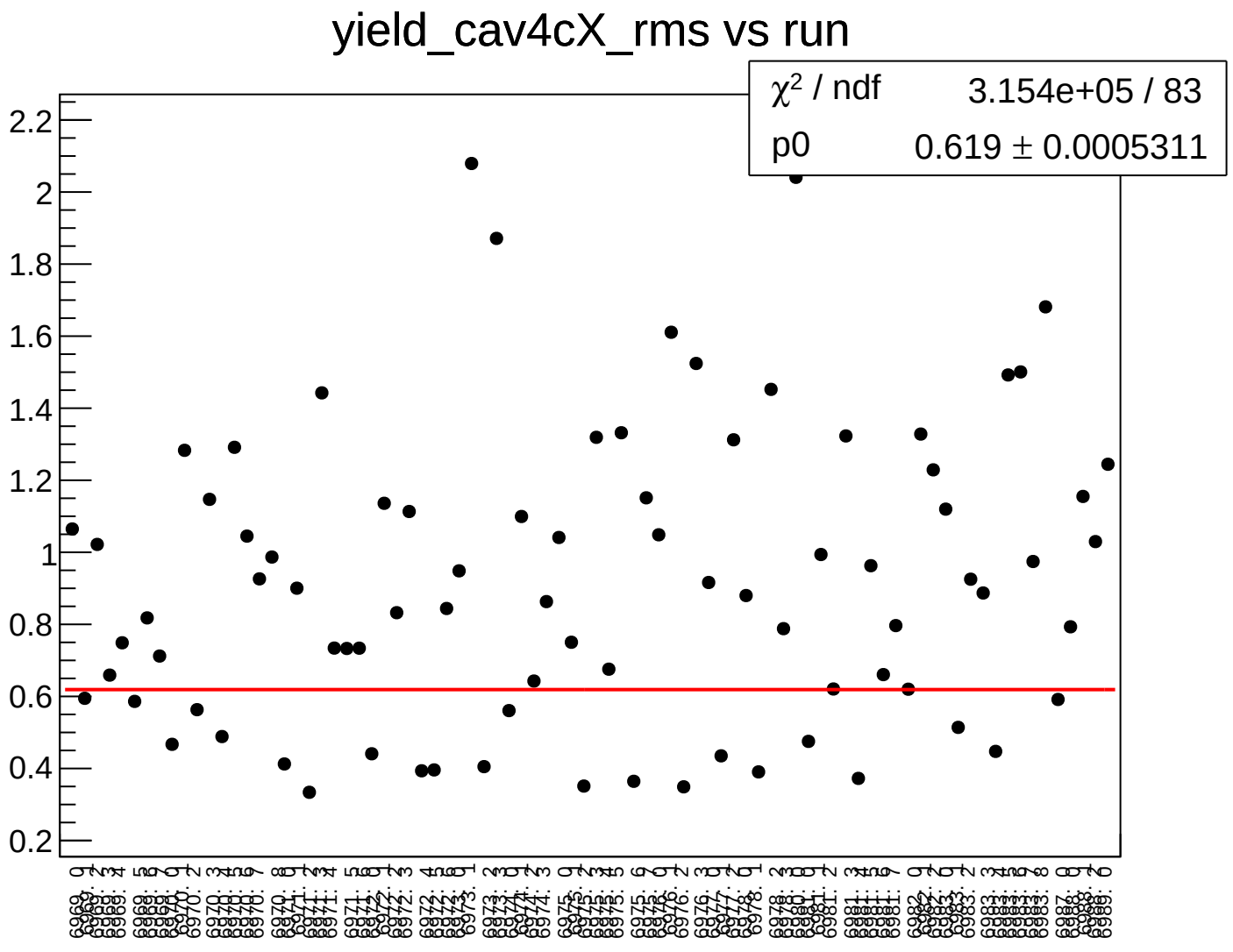

yield_cav4bY_mean vs run
χ² / ndf 3.285e+06 / 83
p0 −59.87 ± 0.001341
pull
Entries 84
Mean 174.7
Std Dev 0

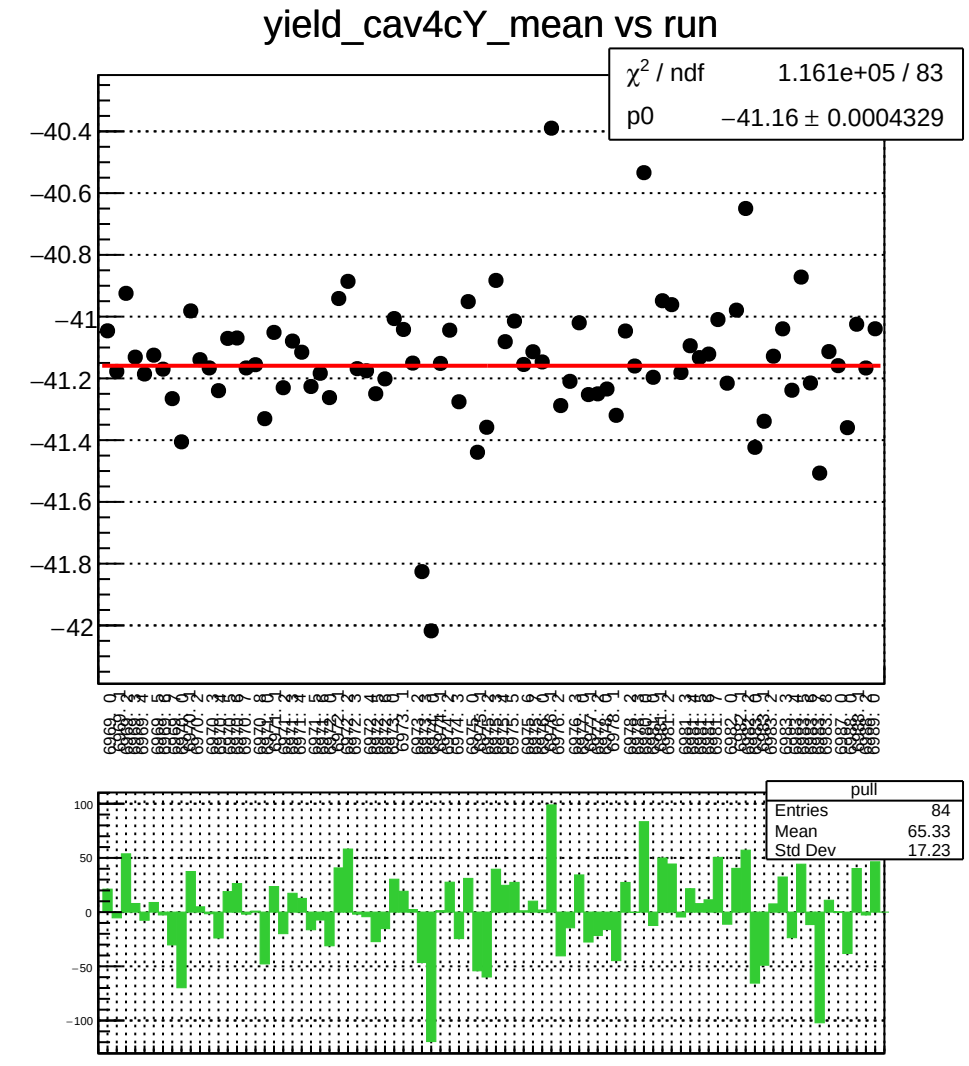

pull1D
Entries 84
Mean 0.1059
Std Dev 2.468

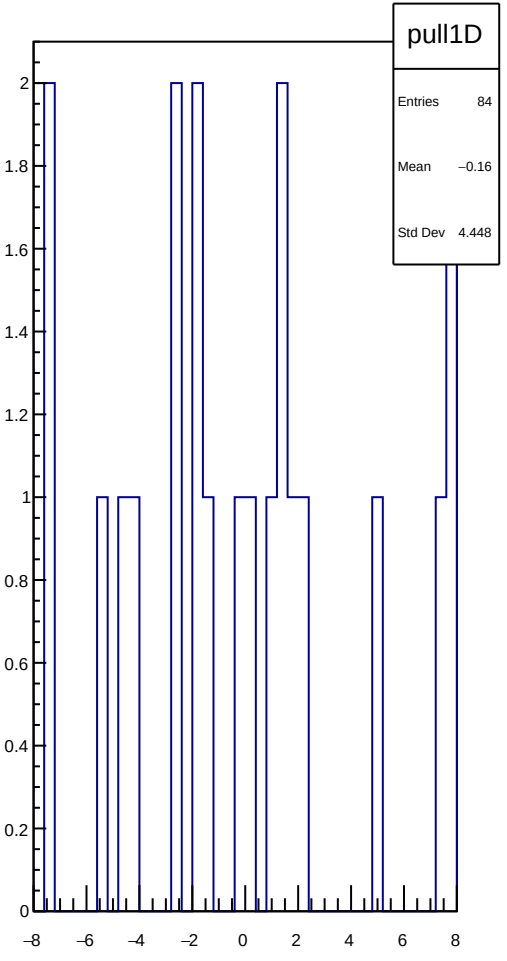

yield_cav4bY_rms vs run
χ² / ndf 4.612e+05 / 83
p0 1.044 ± 0.0009484
4
3.5
3
2.5
2
1.5
1
0.5

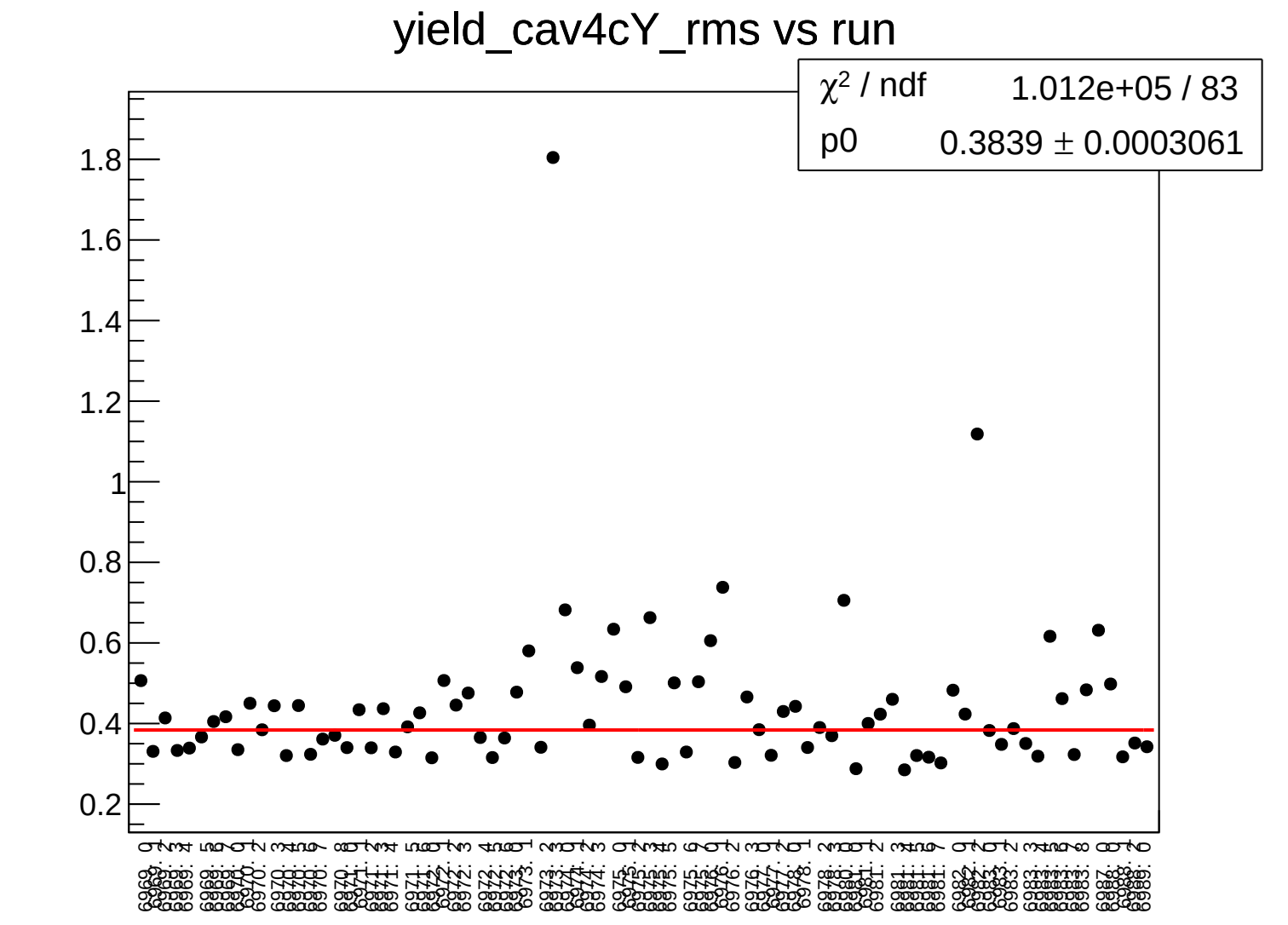

yield_cav4cX_mean vs run
χ² / ndf 2.795e+05 / 83
p0 0.7423 ± 0.0007511
pull
Entries 84
Mean 55.06
Std Dev 19.35

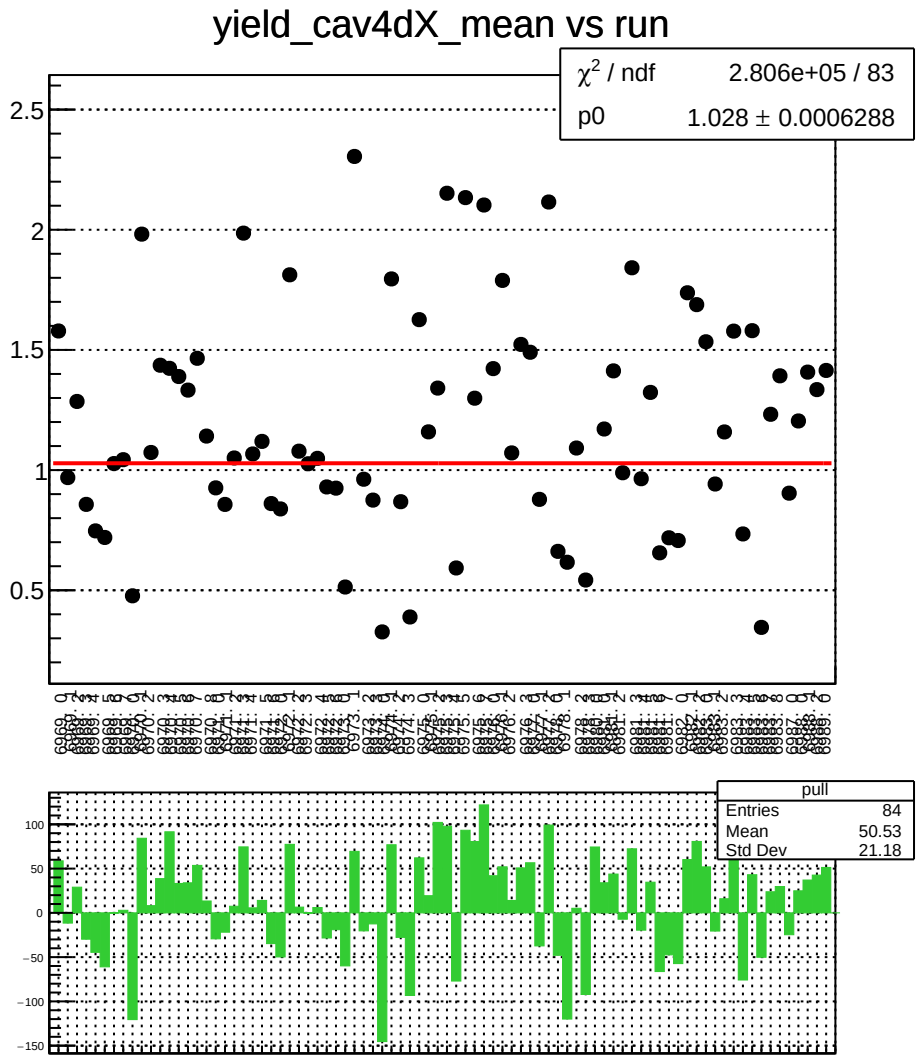

pull1D
Entries 84
Mean 2.196
Std Dev 4.201

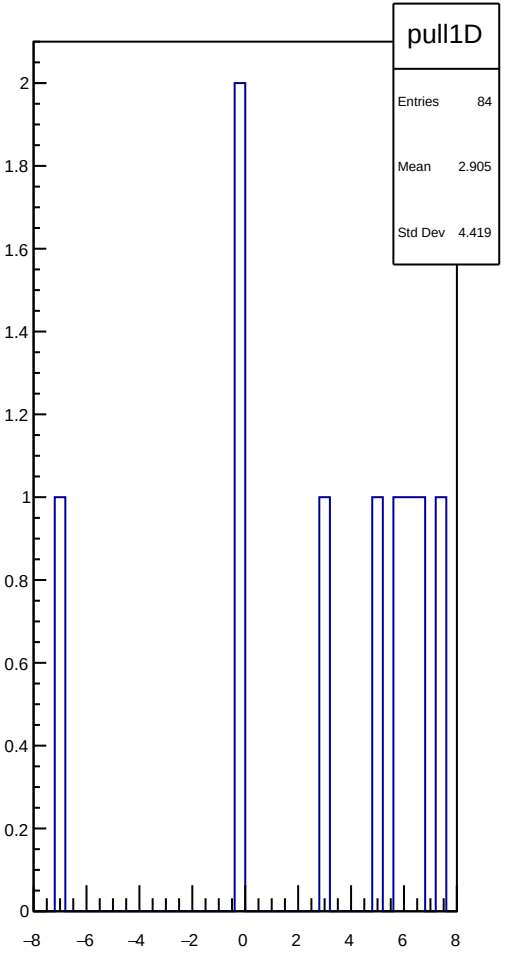

yield_cav4cX_rms vs run
χ² / ndf 3.154e+05 / 83
p0 0.619 ± 0.0005311
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

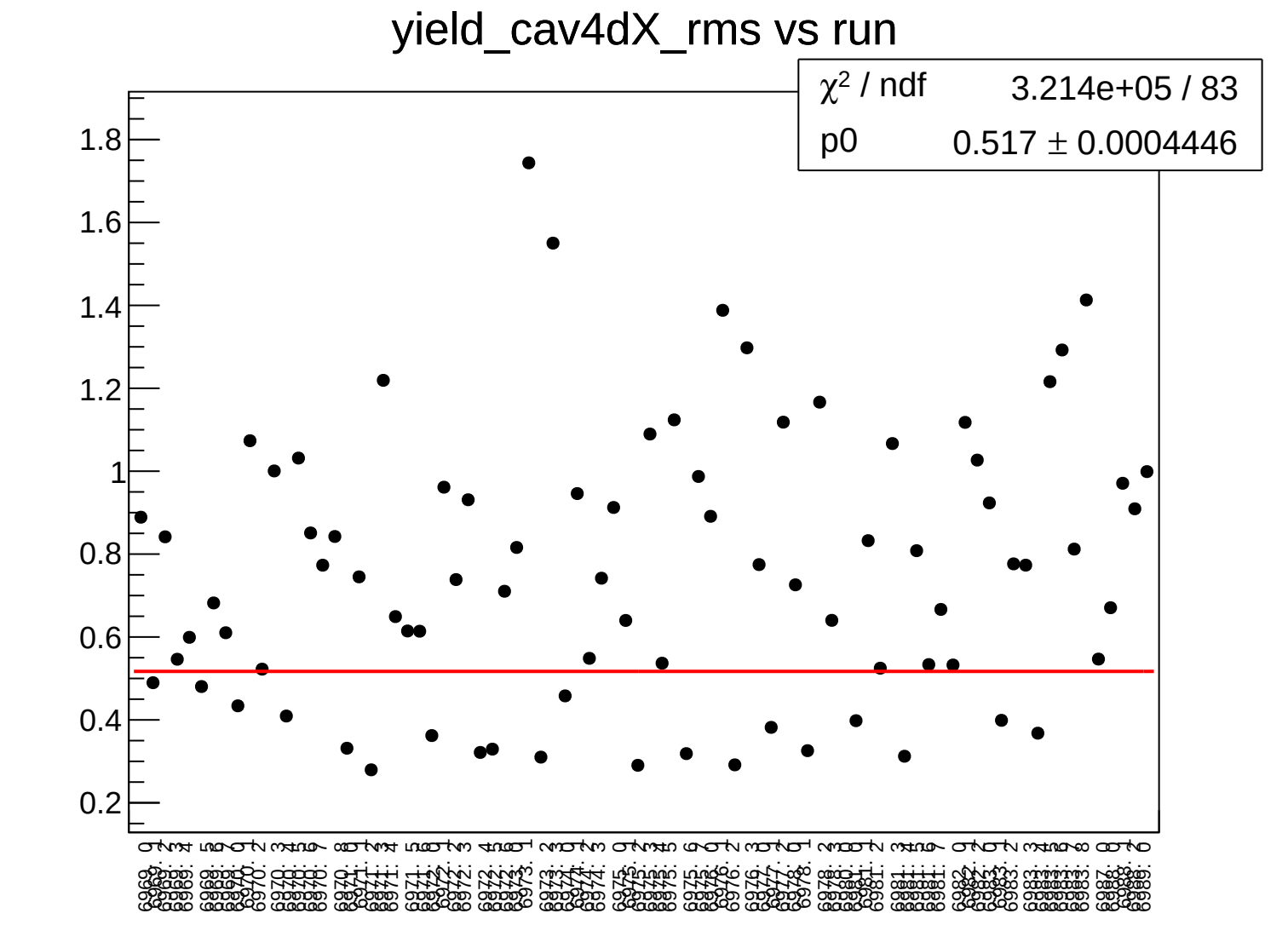

yield_cav4cY_mean vs run
χ² / ndf 1.161e+05 / 83
p0 −41.16 ± 0.0004329
−40.4
−40.6
−40.8
−41
−41.2
−41.4
−41.6
−41.8
−42
pull
Entries 84
Mean 65.33
Std Dev 17.23
100
50
0
−50
−100

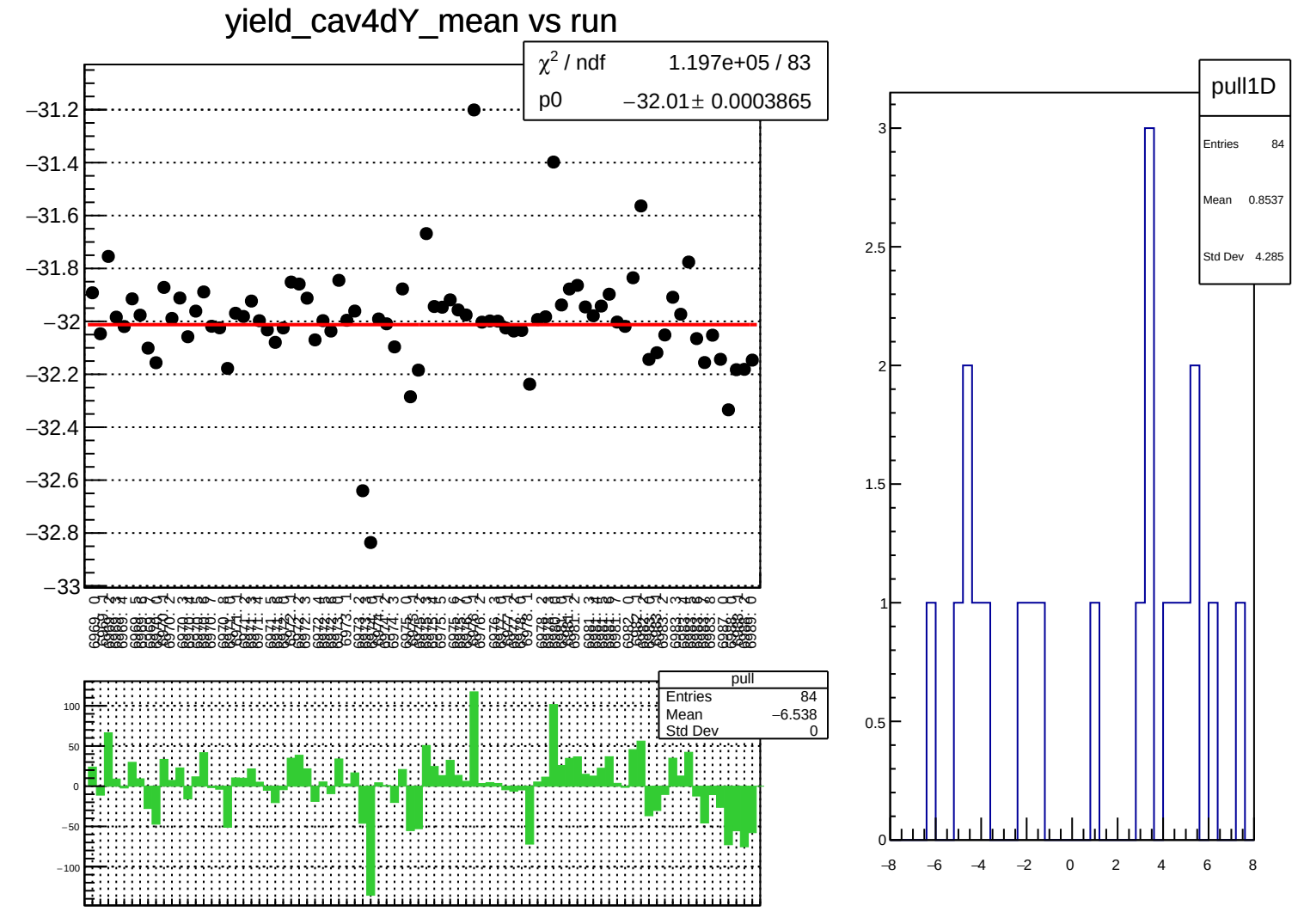

pull1D
Entries 84
Mean −0.16
Std Dev 4.448
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

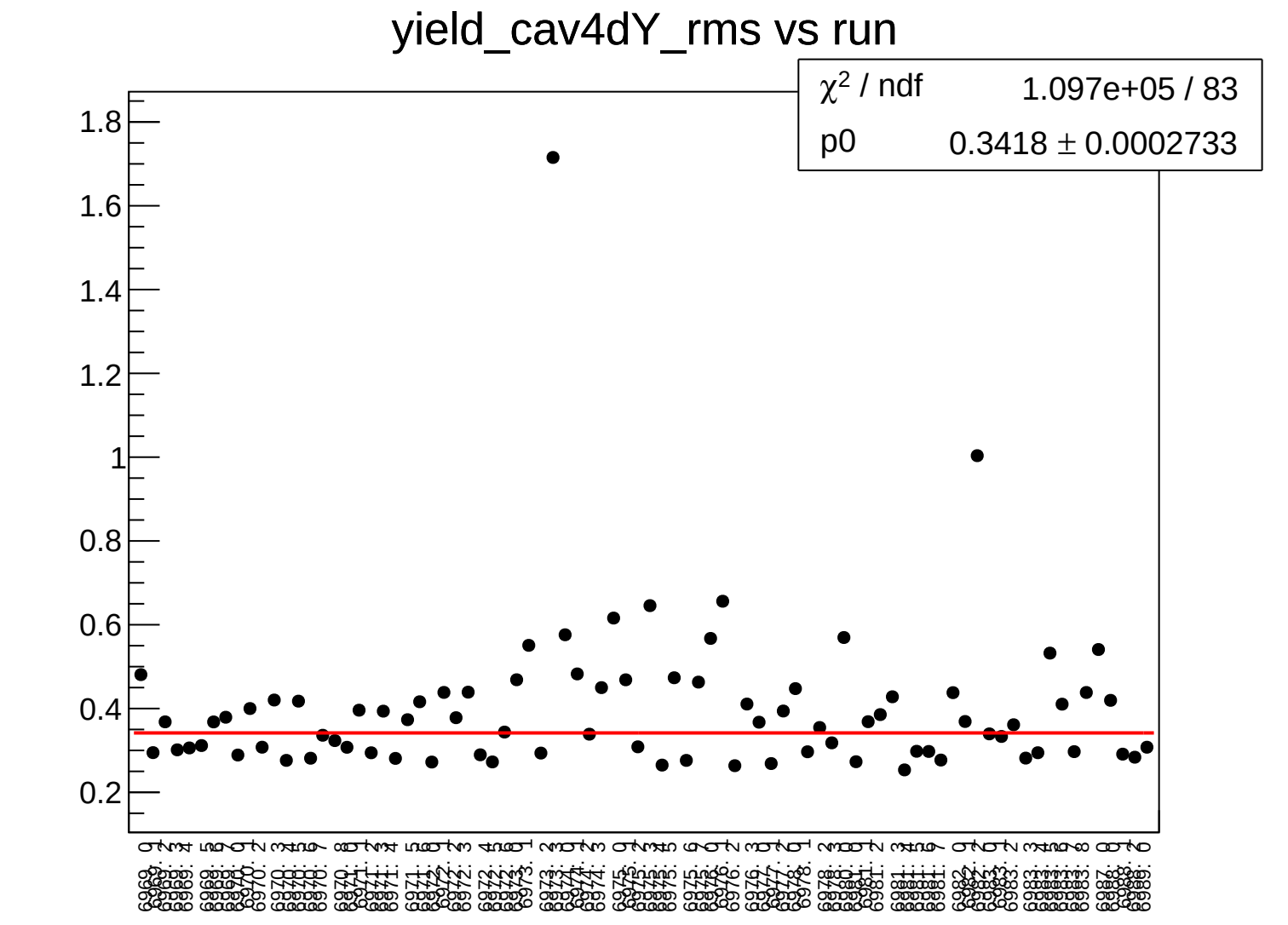

yield_cav4cY_rms vs run
χ² / ndf 1.012e+05 / 83
p0 0.3839 ± 0.0003061
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

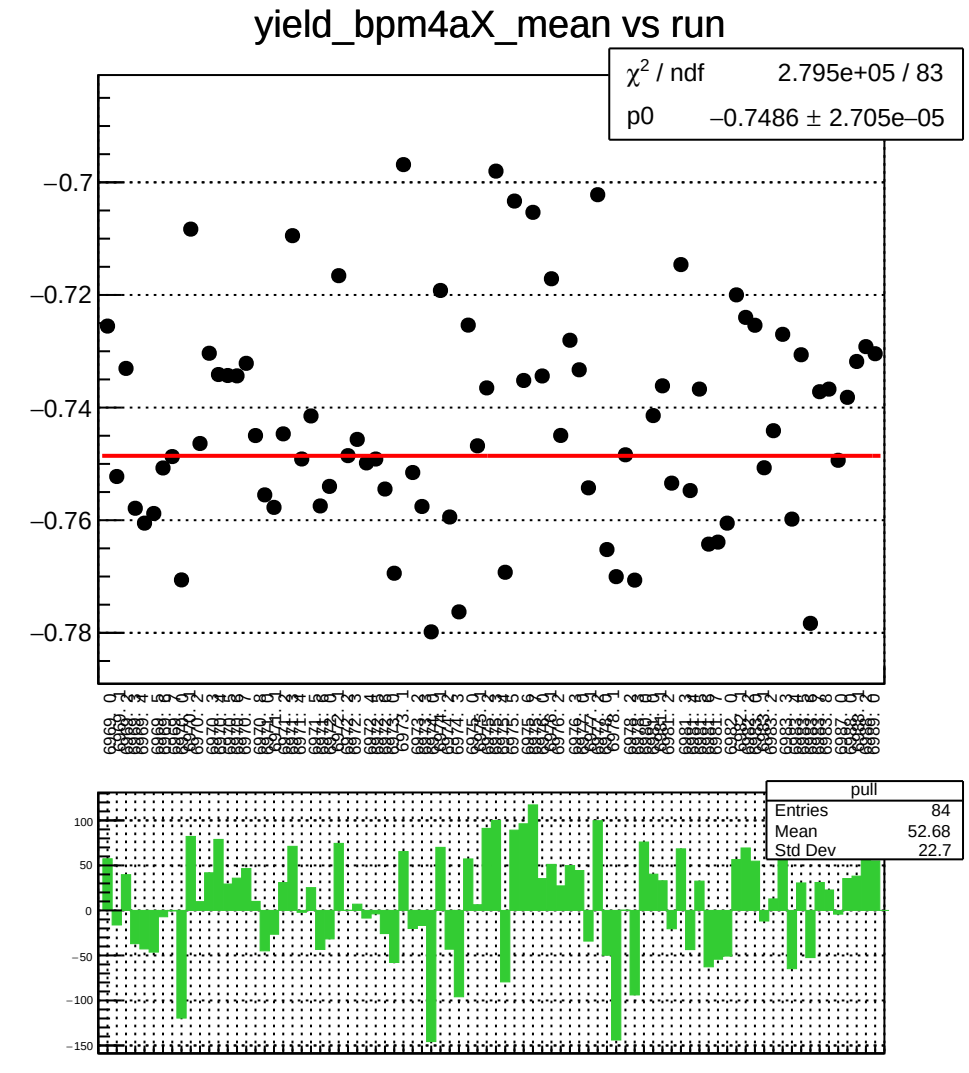

yield_cav4dX_mean vs run
χ² / ndf 2.806e+05 / 83
p0 1.028 ± 0.0006288
pull
Entries 84
Mean 50.53
Std Dev 21.18

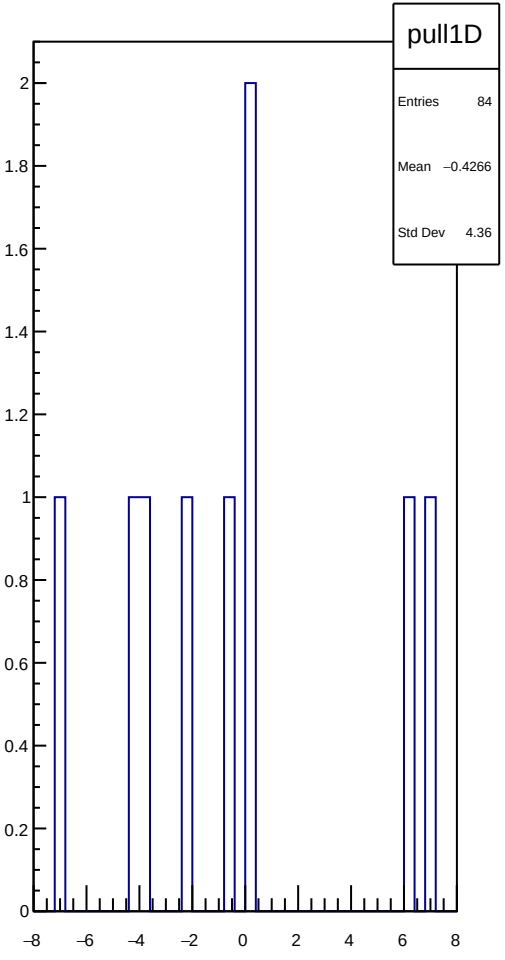

pull1D
Entries 84
Mean 2.905
Std Dev 4.419

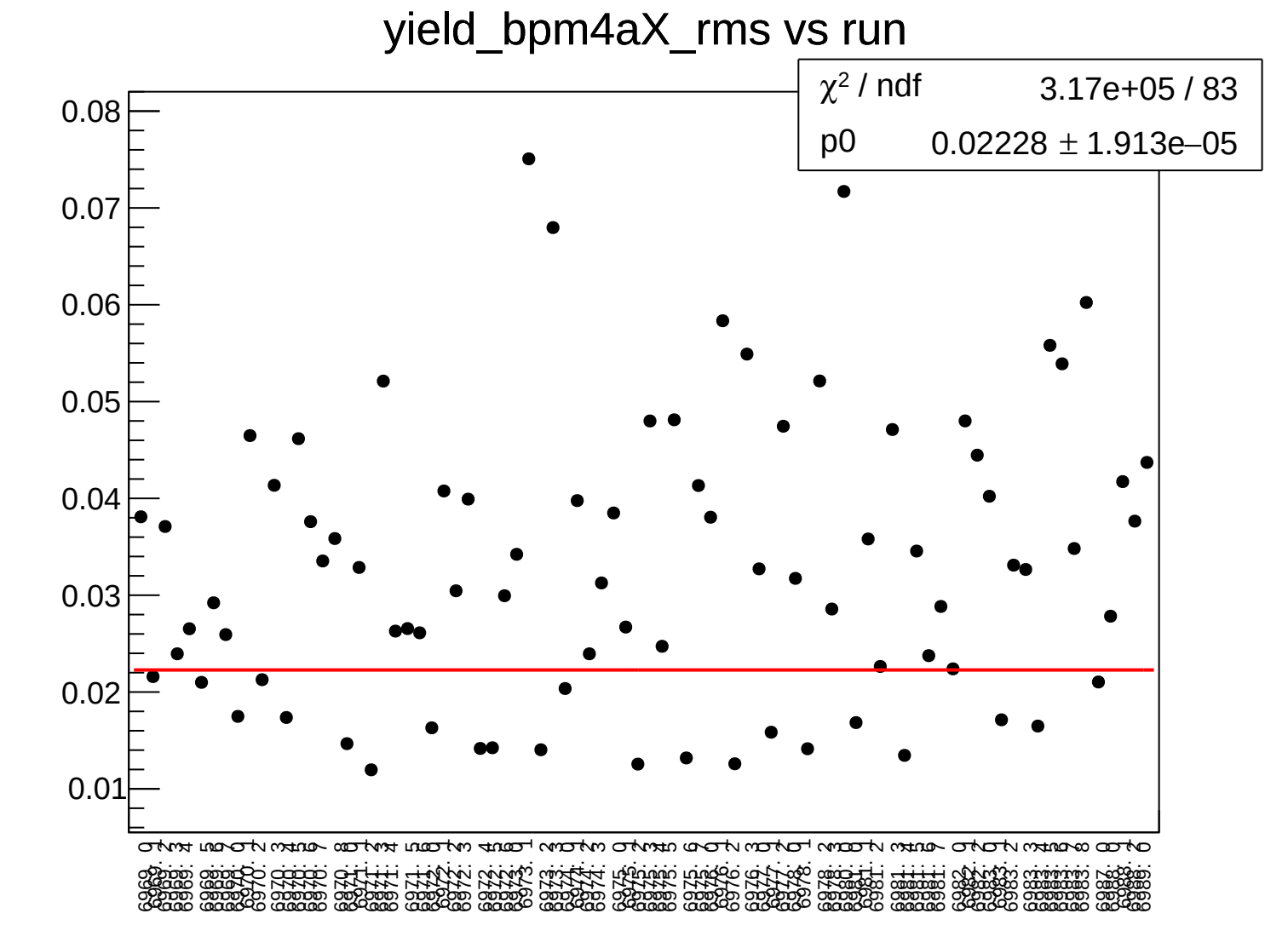

yield_cav4dX_rms vs run
χ² / ndf 3.214e+05 / 83
p0 0.517 ± 0.0004446
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

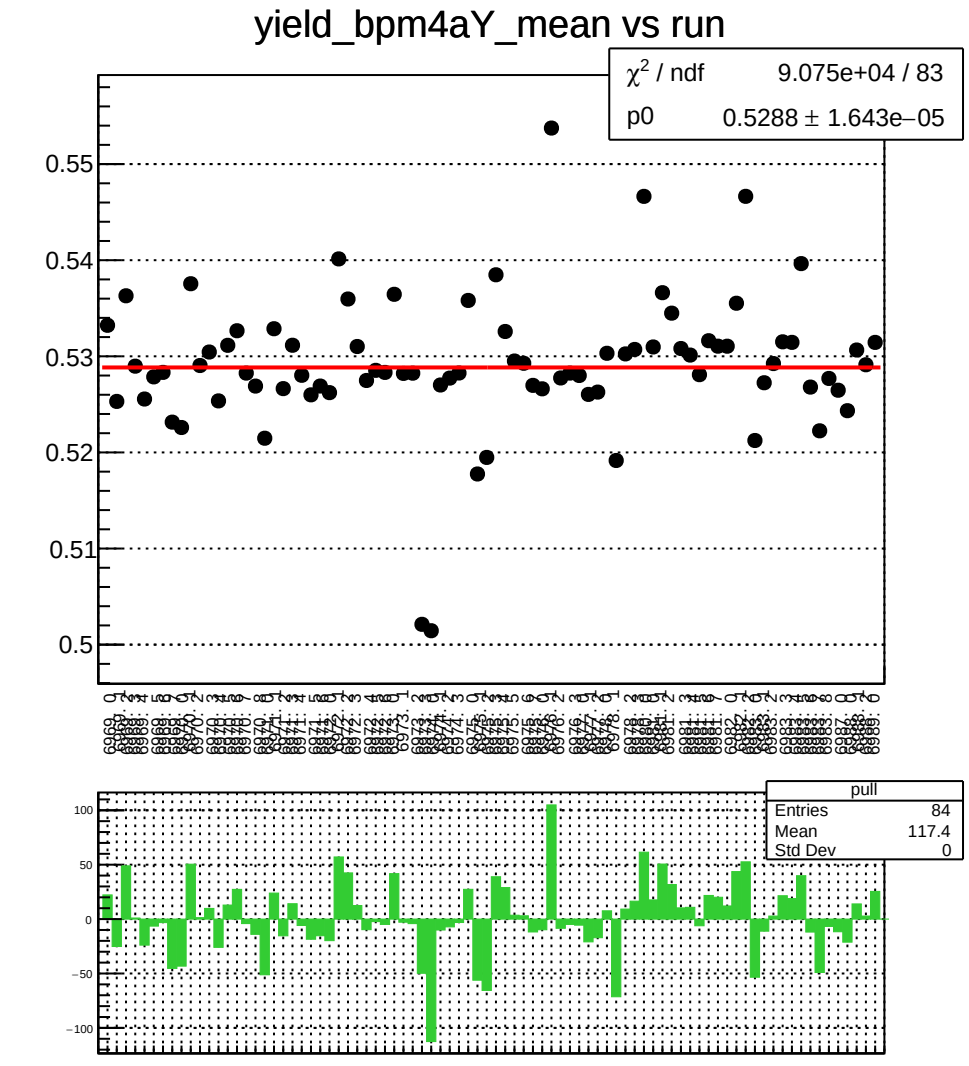

yield_cav4dY_mean vs run
χ² / ndf 1.197e+05 / 83
p0 −32.01± 0.0003865
−31.2
−31.4
−31.6
−31.8
−32
−32.2
−32.4
−32.6
−32.8
−33
pull
Entries 84
Mean −6.538
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 84
Mean 0.8537
Std Dev 4.285
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

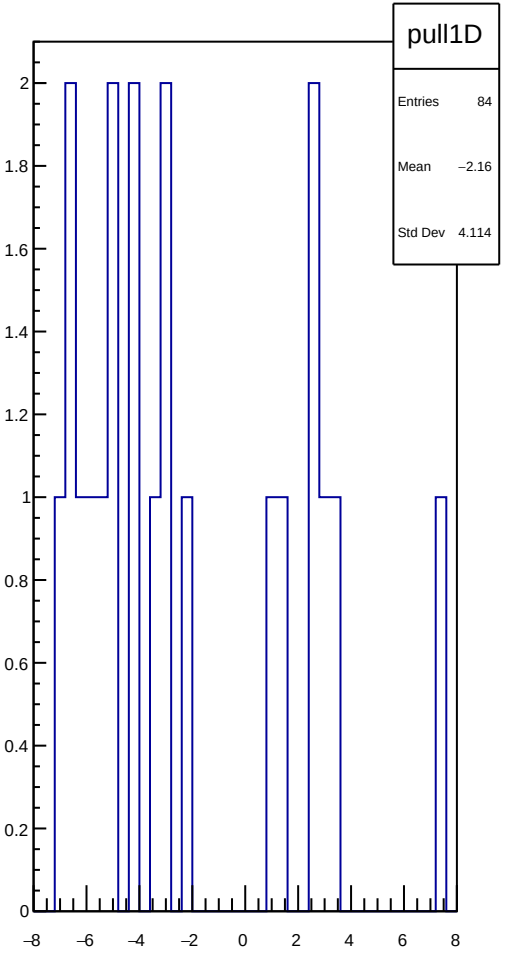

yield_cav4dY_rms vs run
χ^2 / ndf 1.097e+05 / 83
p0 0.3418 ± 0.0002733
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

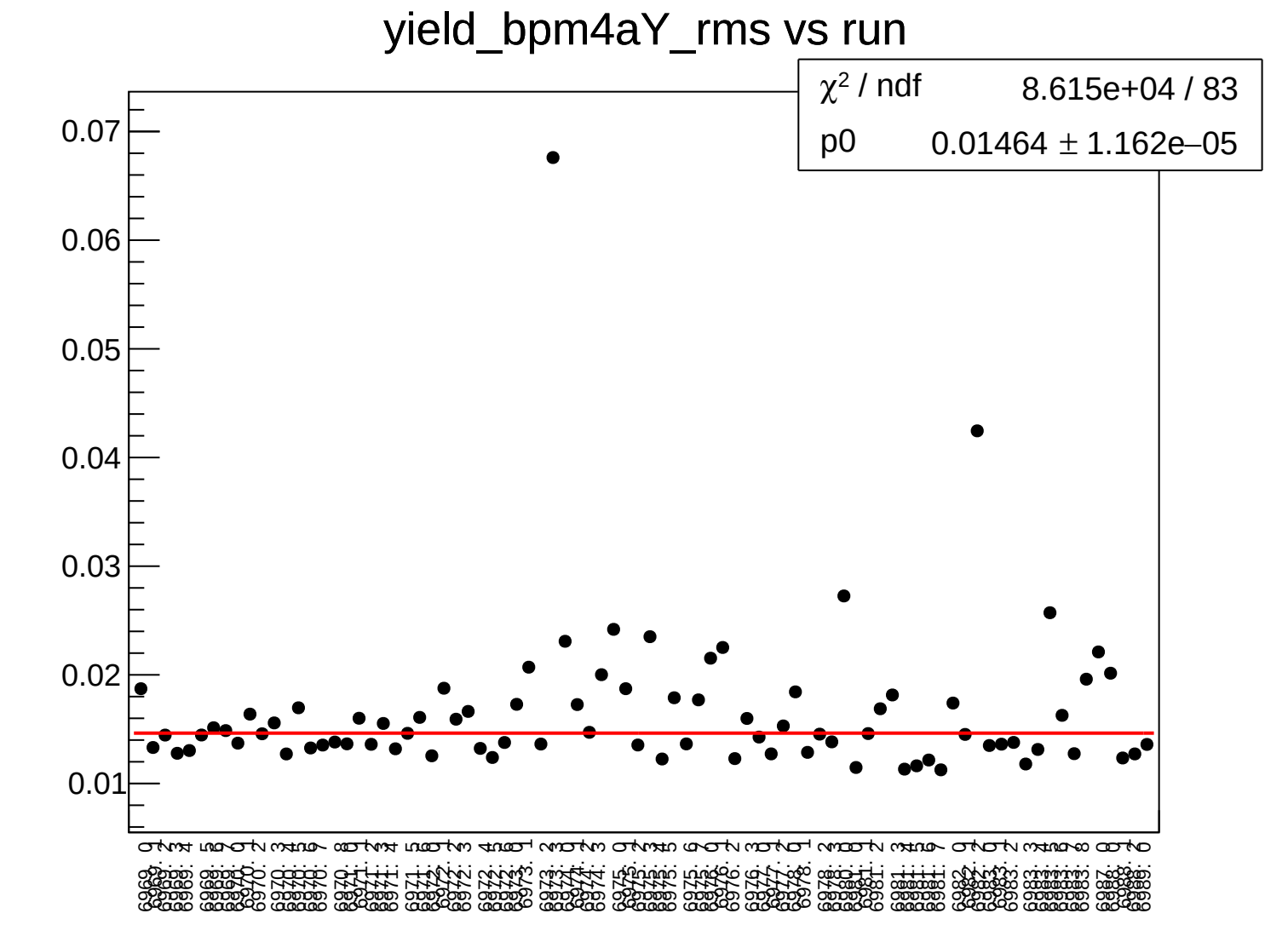

yield_bpm4aX_mean vs run
χ² / ndf 2.795e+05 / 83
p0 −0.7486 ± 2.705e−05
−0.7
−0.72
−0.74
−0.76
−0.78
pull
Entries 84
Mean 52.68
Std Dev 22.7
100
50
0
−50
−100
−150

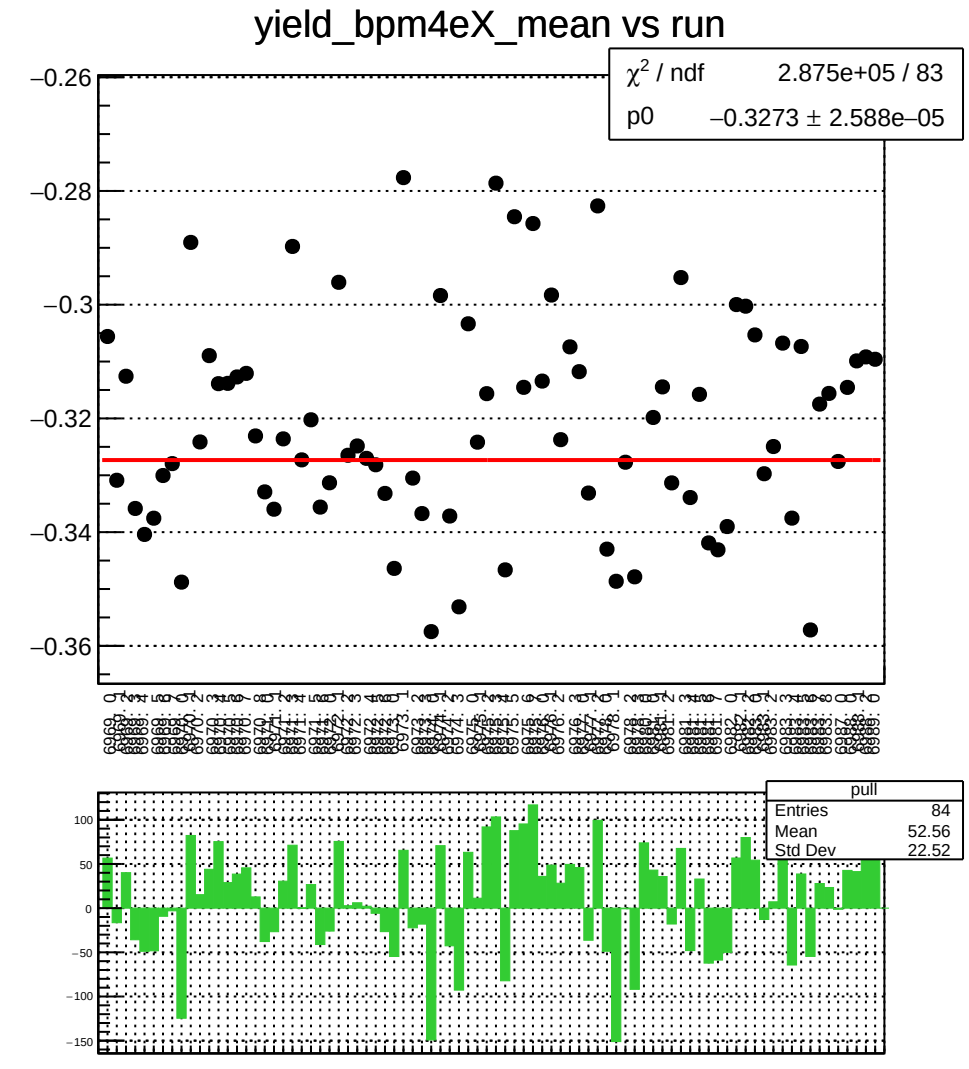

pull1D
Entries 84
Mean −0.4266
Std Dev 4.36
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

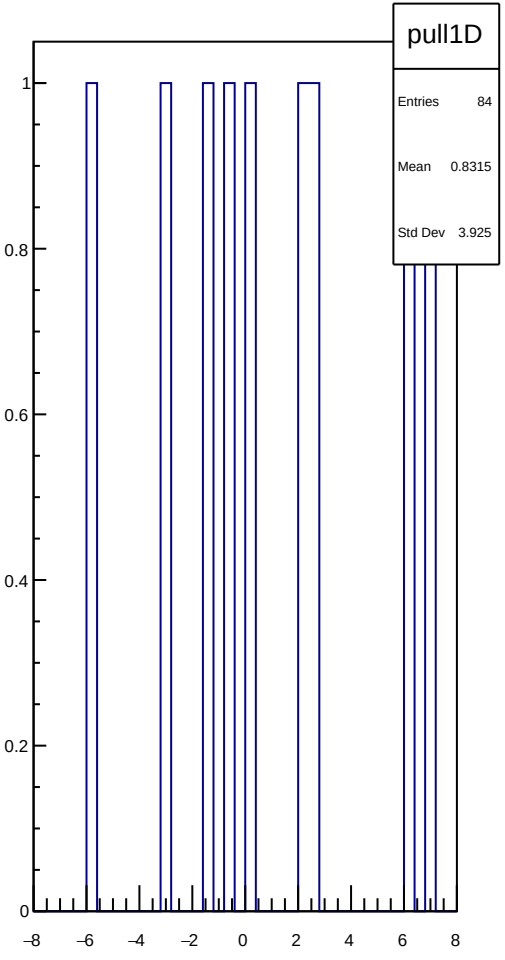

yield_bpm4aX_rms vs run
χ² / ndf 3.17e+05 / 83
p0 0.02228 ± 1.913e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

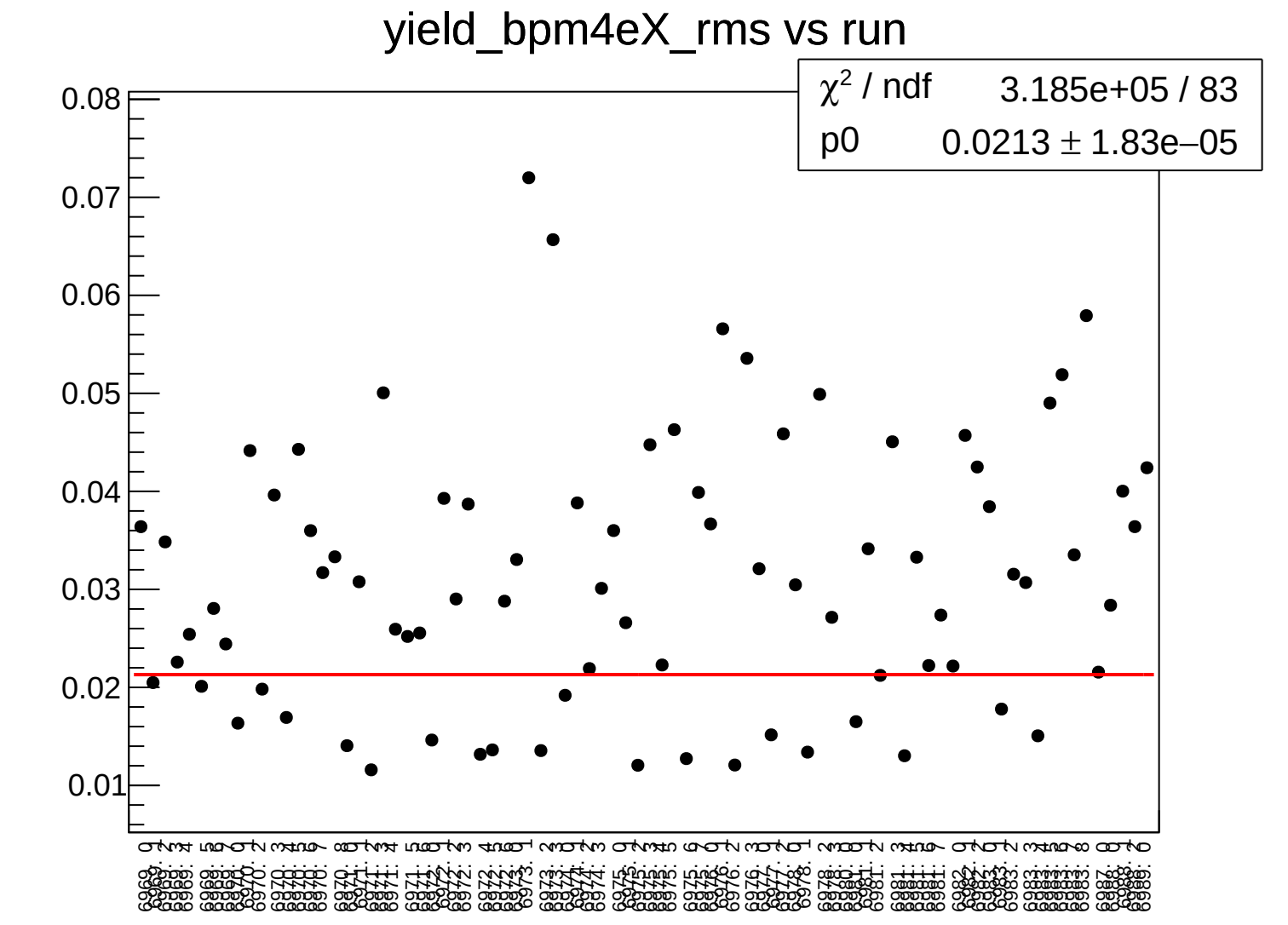

yield_bpm4aY_mean vs run
χ² / ndf 9.075e+04 / 83
p0 0.5288 ± 1.643e−05
0.55
0.54
0.53
0.52
0.51
0.5
pull
Entries 84
Mean 117.4
Std Dev 0
100
50
0
−50
−100

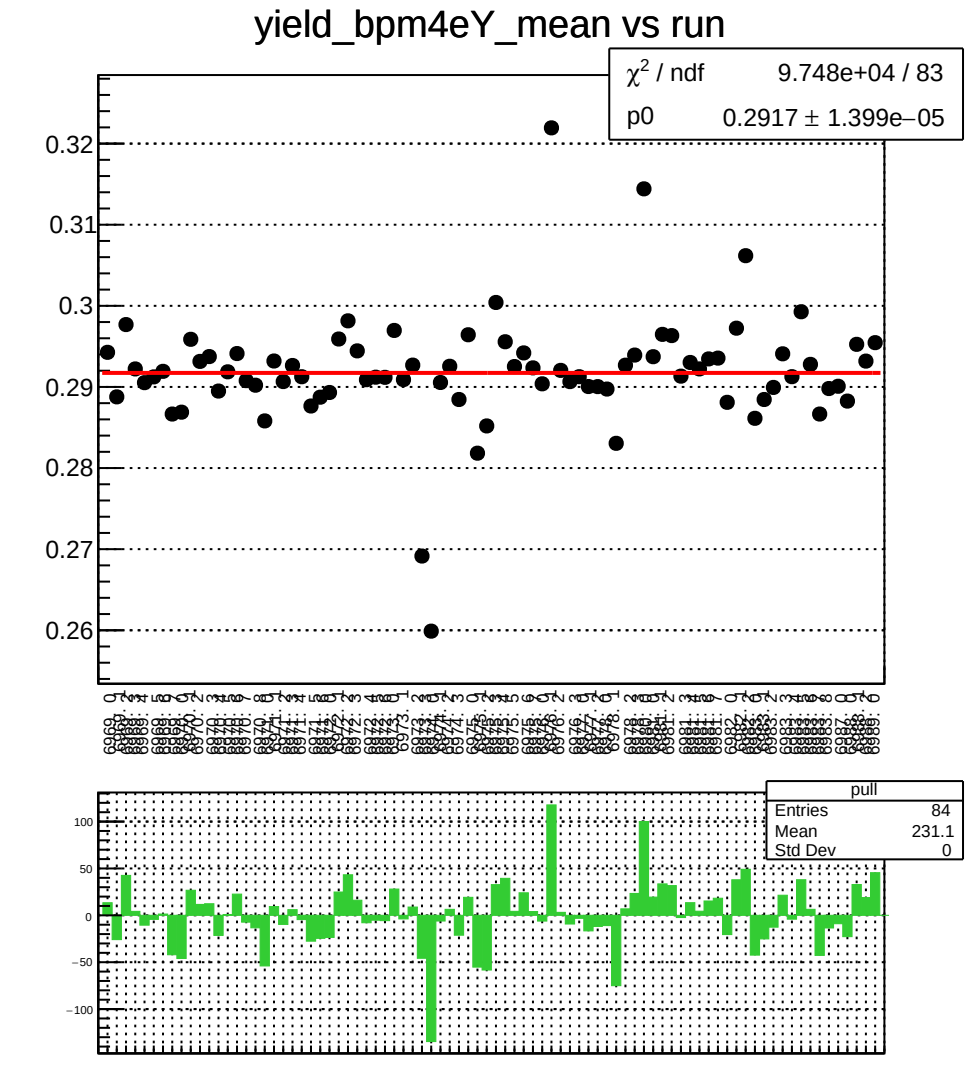

pull1D
Entries 84
Mean −2.16
Std Dev 4.114
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

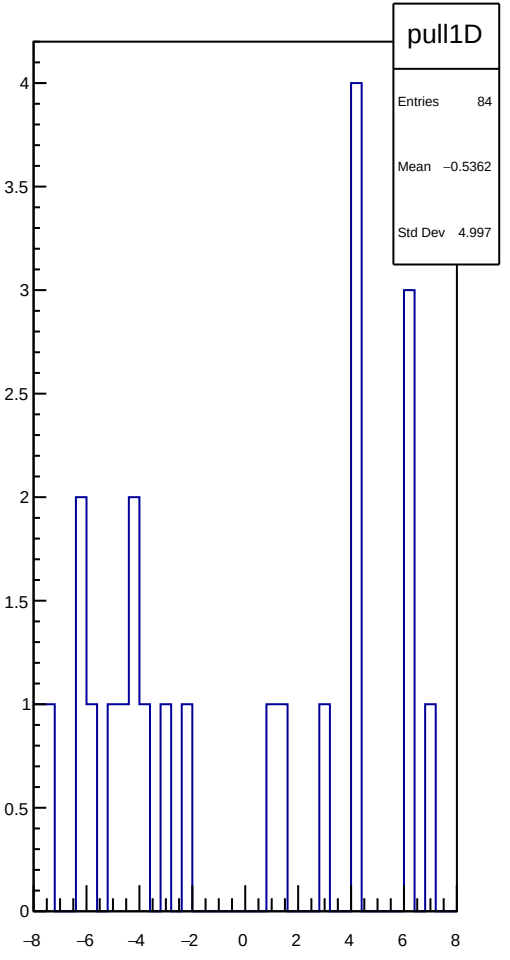

yield_bpm4aY_rms vs run
χ² / ndf 8.615e+04 / 83
p0 0.01464 ± 1.162e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

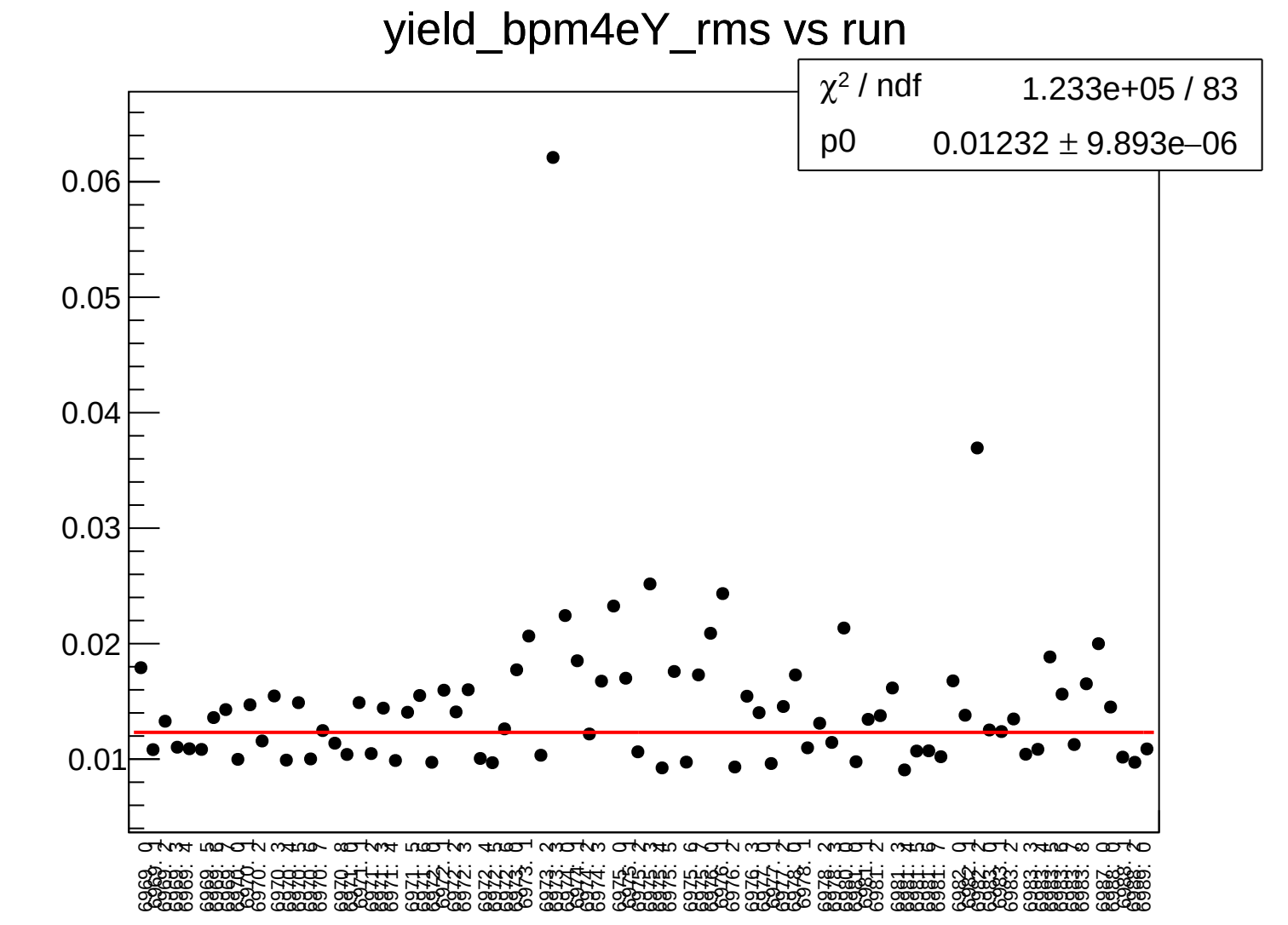

yield_bpm4eX_mean vs run
χ² / ndf 2.875e+05 / 83
p0 −0.3273 ± 2.588e−05
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 84
Mean 52.56
Std Dev 22.52
100
50
0
−50
−100
−150

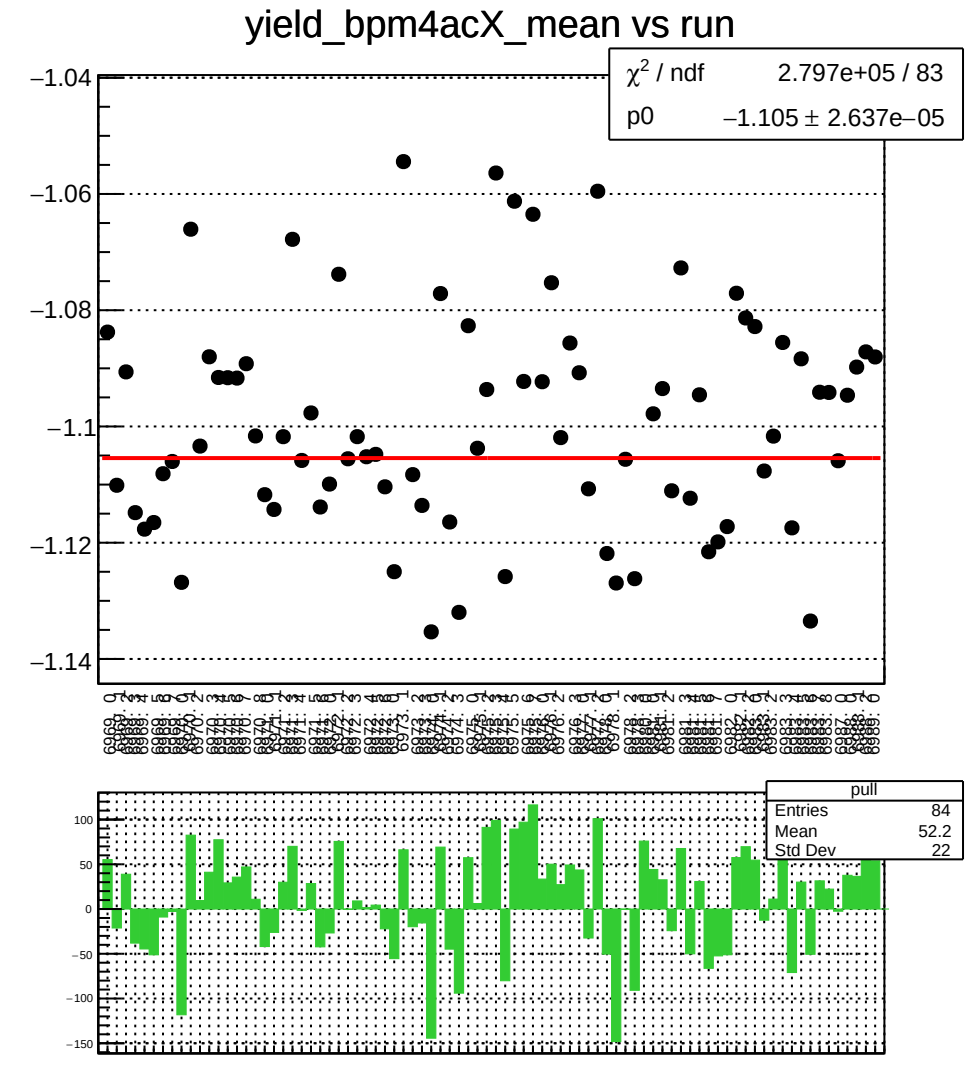

pull1D
Entries 84
Mean 0.8315
Std Dev 3.925
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

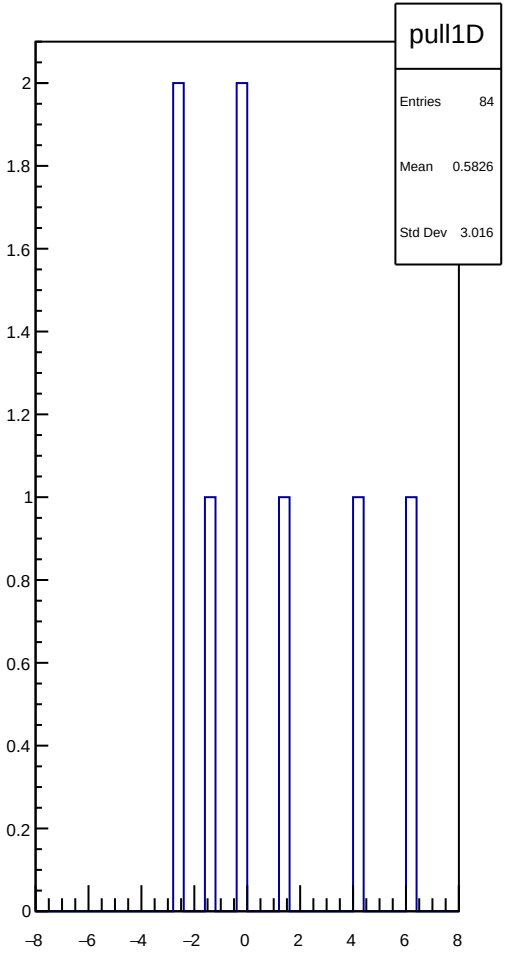

yield_bpm4eX_rms vs run
χ² / ndf 3.185e+05 / 83
p0 0.0213 ± 1.83e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

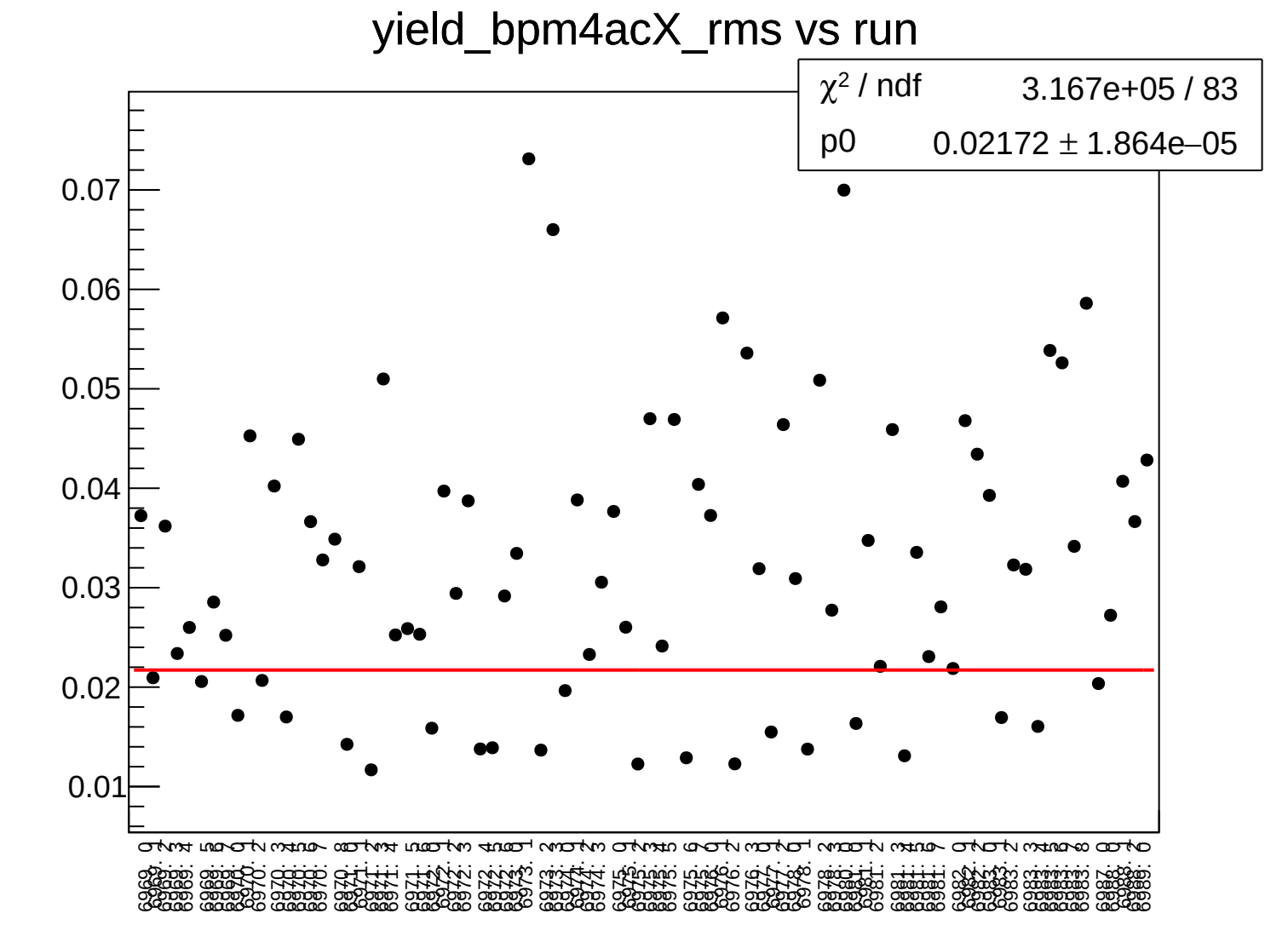

yield_bpm4eY_mean vs run
χ² / ndf 9.748e+04 / 83
p0 0.2917 ± 1.399e−05
0.32
0.31
0.3
0.29
0.28
0.27
0.26
pull
Entries 84
Mean 231.1
Std Dev 0
100
50
0
−50
−100

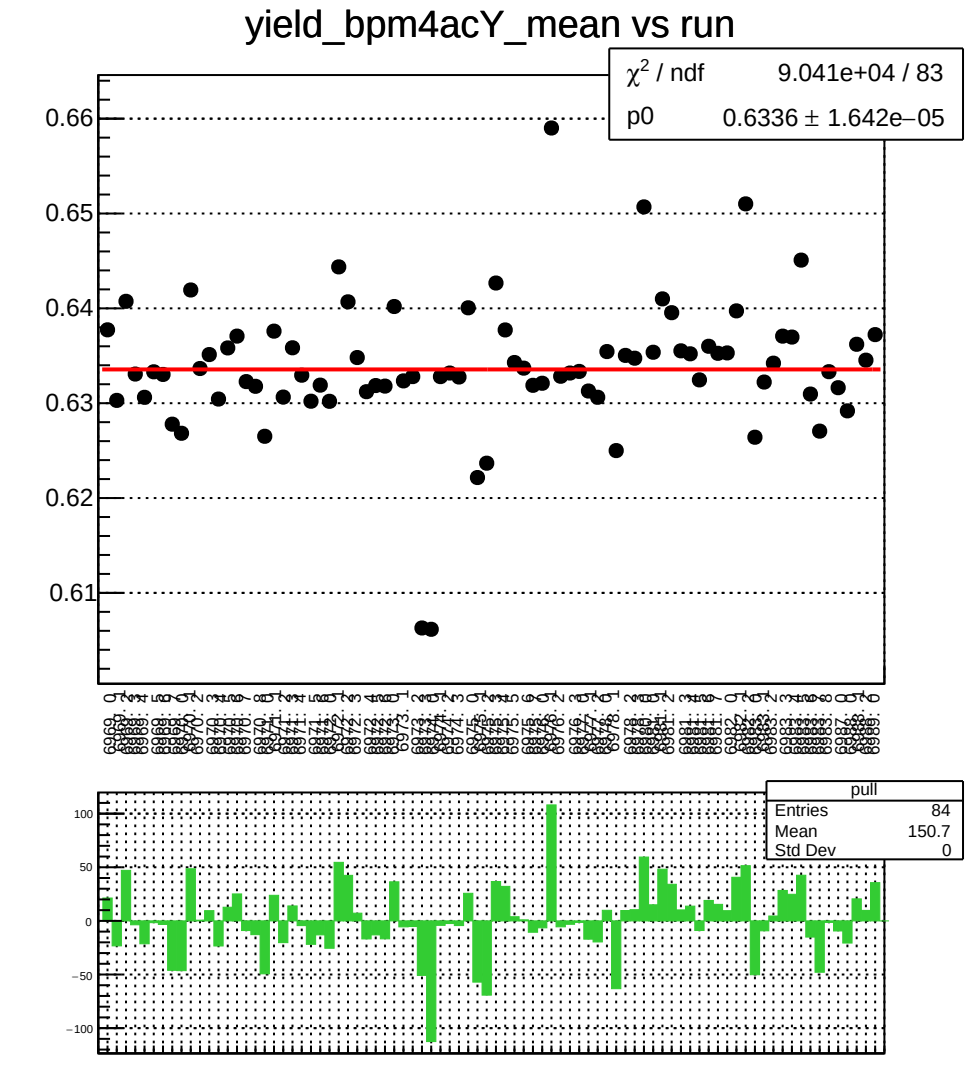

pull1D
Entries 84
Mean −0.5362
Std Dev 4.997
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

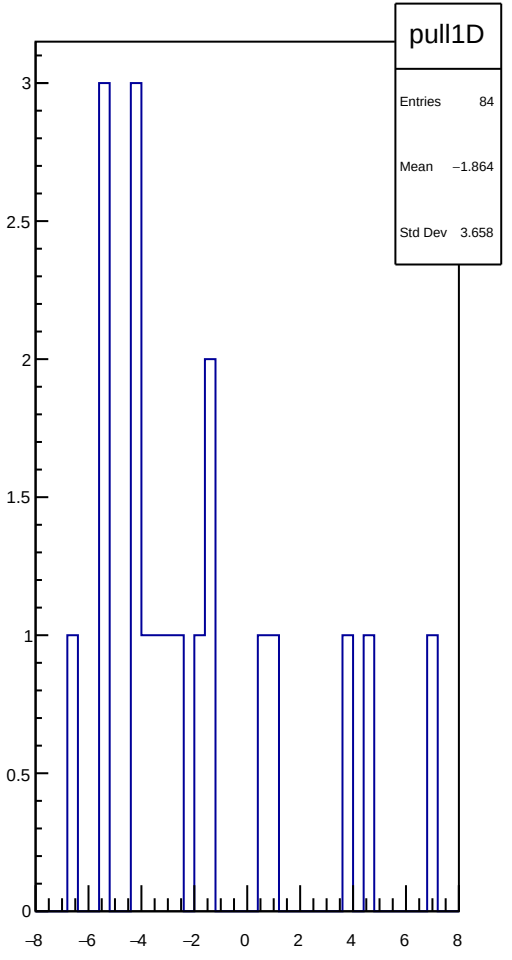

yield_bpm4eY_rms vs run
χ² / ndf 1.233e+05 / 83
p0 0.01232 ± 9.893e–06
0.06
0.05
0.04
0.03
0.02
0.01

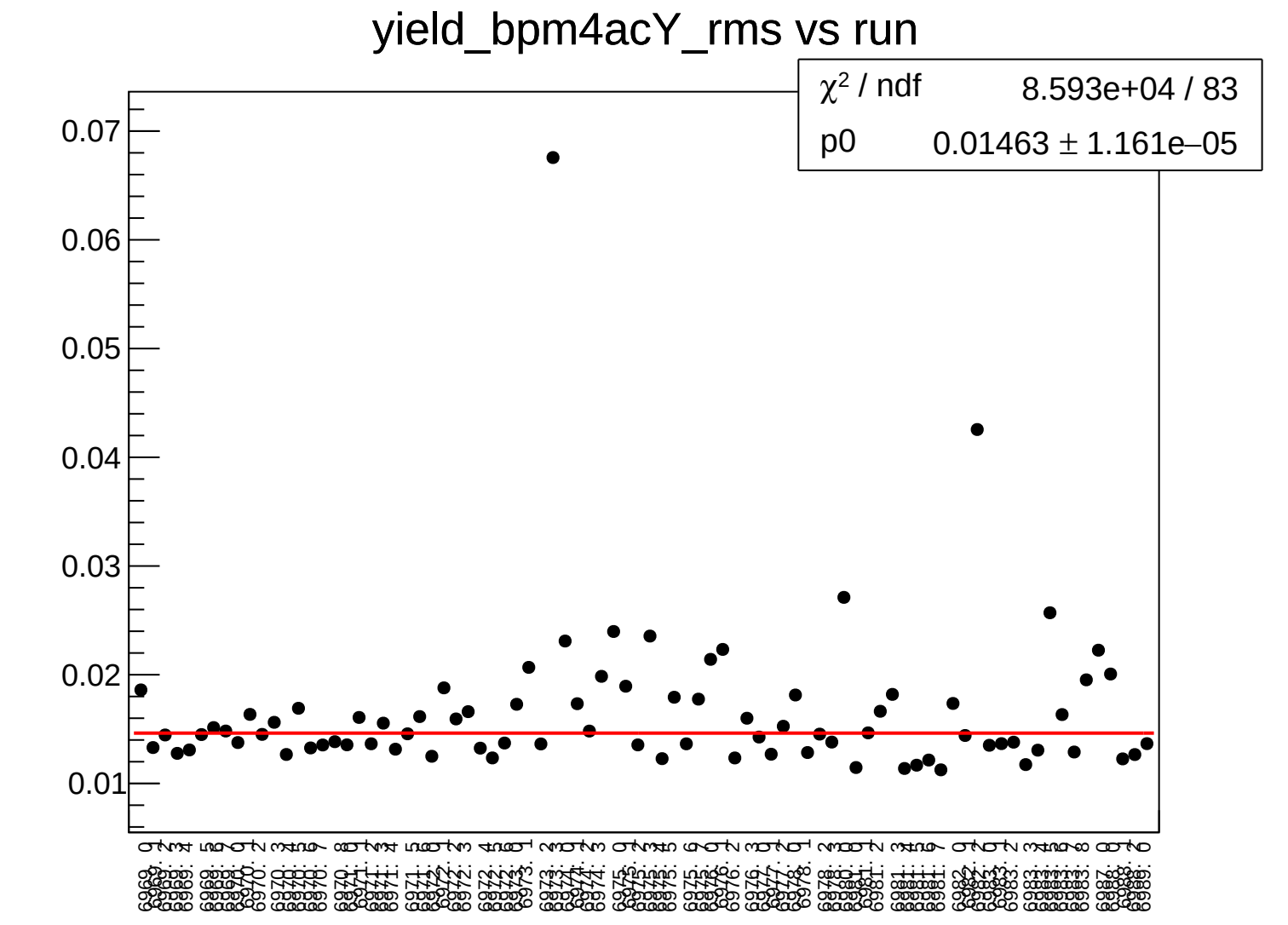

yield_bpm4acX_mean vs run
χ² / ndf 2.797e+05 / 83
p0 −1.105 ± 2.637e−05
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
pull
Entries 84
Mean 52.2
Std Dev 22
100
50
0
−50
−100
−150

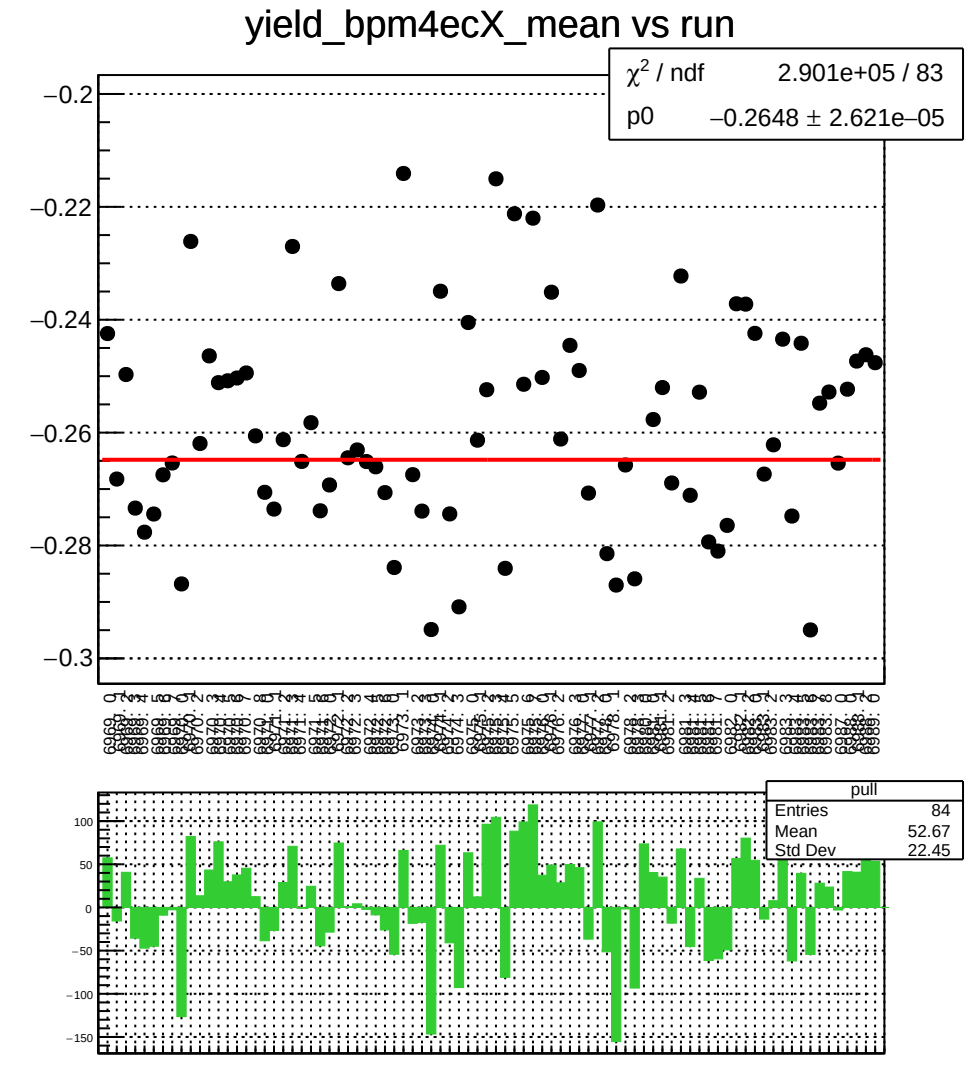

pull1D
Entries 84
Mean 0.5826
Std Dev 3.016
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

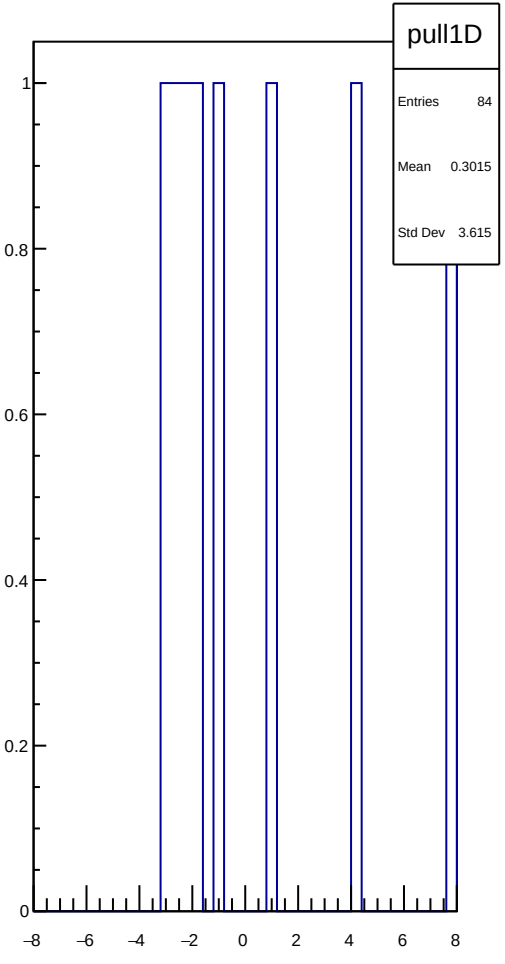

yield_bpm4acX_rms vs run
χ² / ndf 3.167e+05 / 83
p0 0.02172 ± 1.864e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

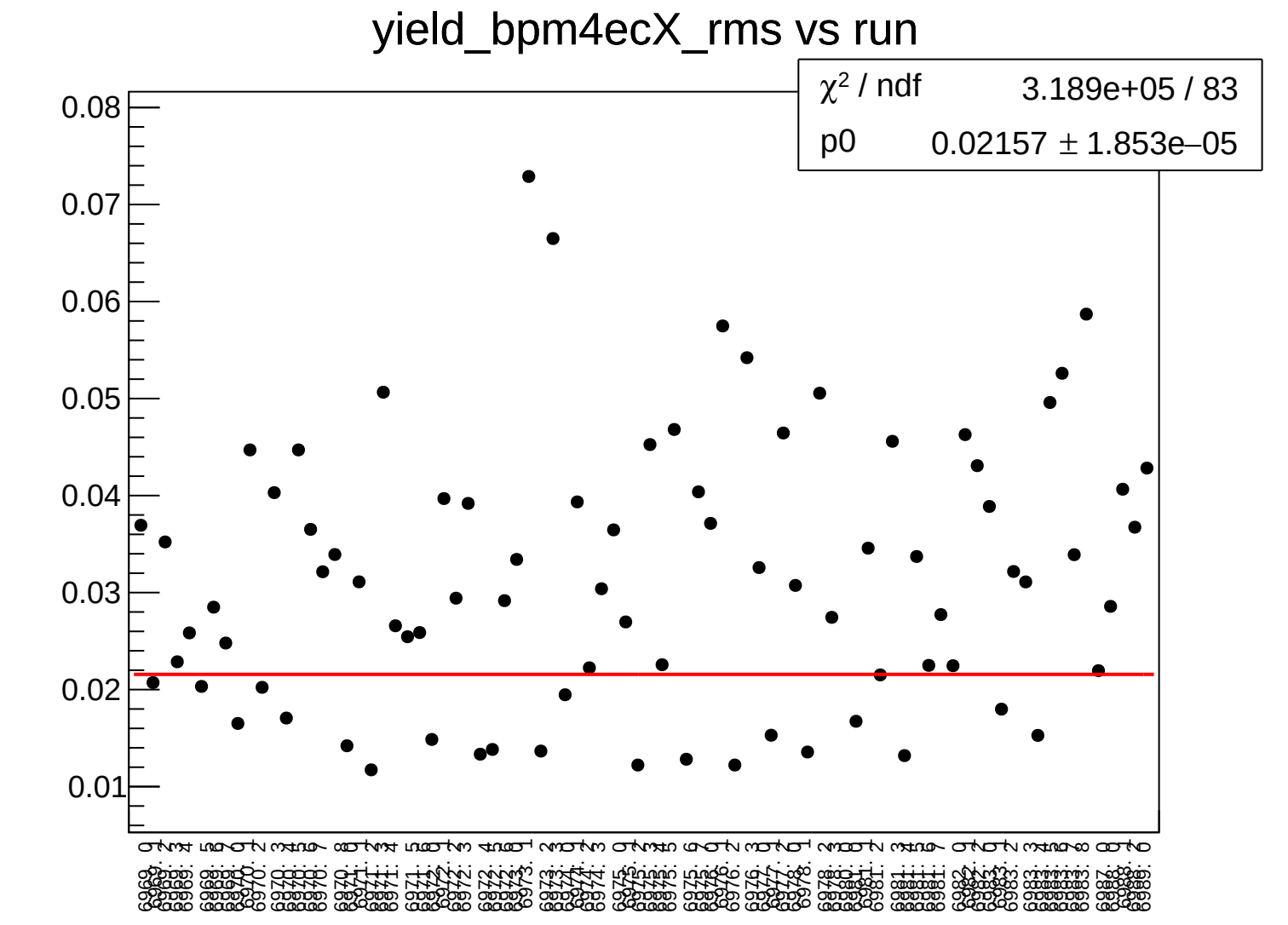

yield_bpm4acY_mean vs run
χ² / ndf 9.041e+04 / 83
p0 0.6336 ± 1.642e−05
0.66
0.65
0.64
0.63
0.62
0.61
pull
Entries 84
Mean 150.7
Std Dev 0
100
50
0
−50
−100

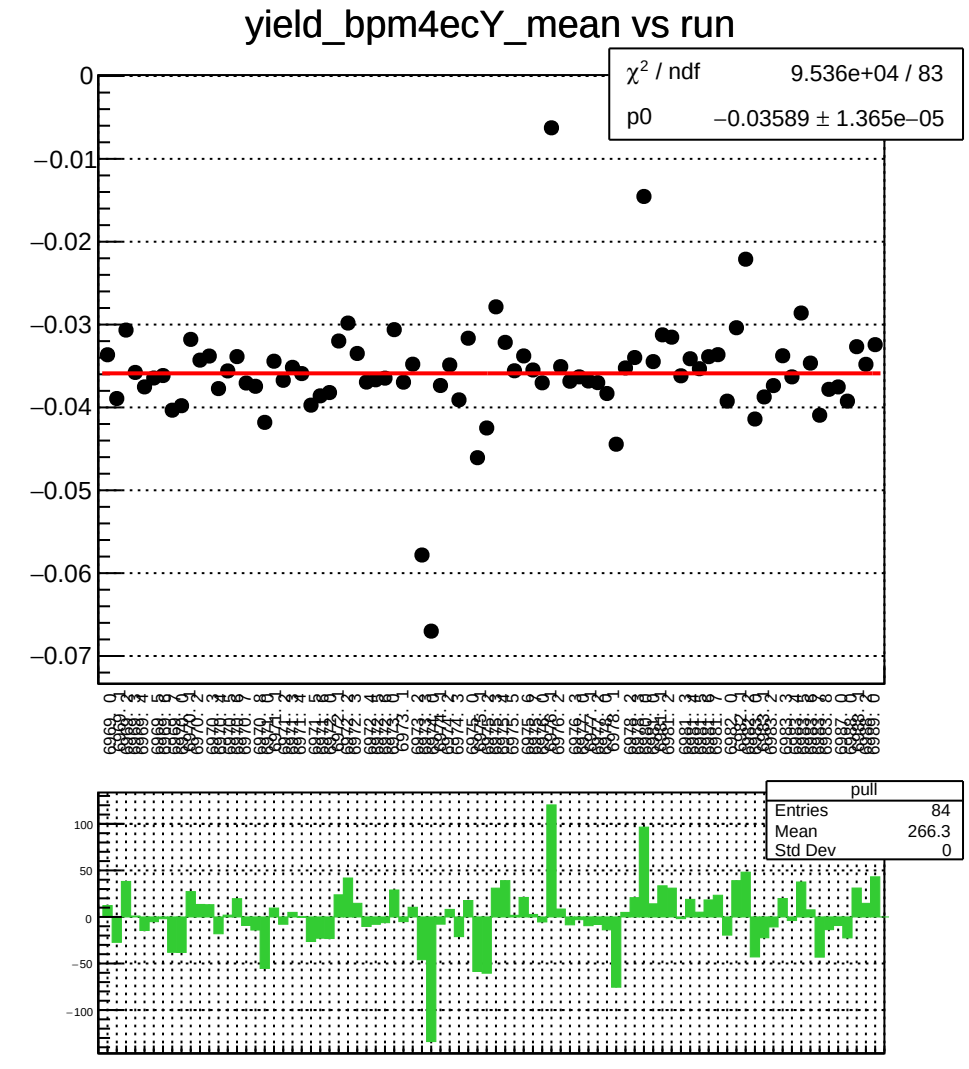

pull1D
Entries 84
Mean −1.864
Std Dev 3.658
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

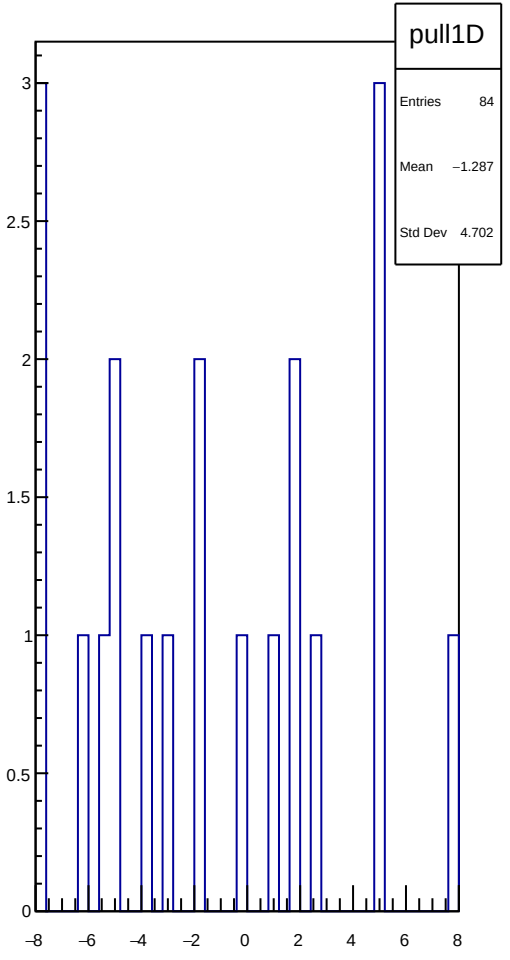

yield_bpm4acY_rms vs run
χ² / ndf 8.593e+04 / 83
p0 0.01463 ± 1.161e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

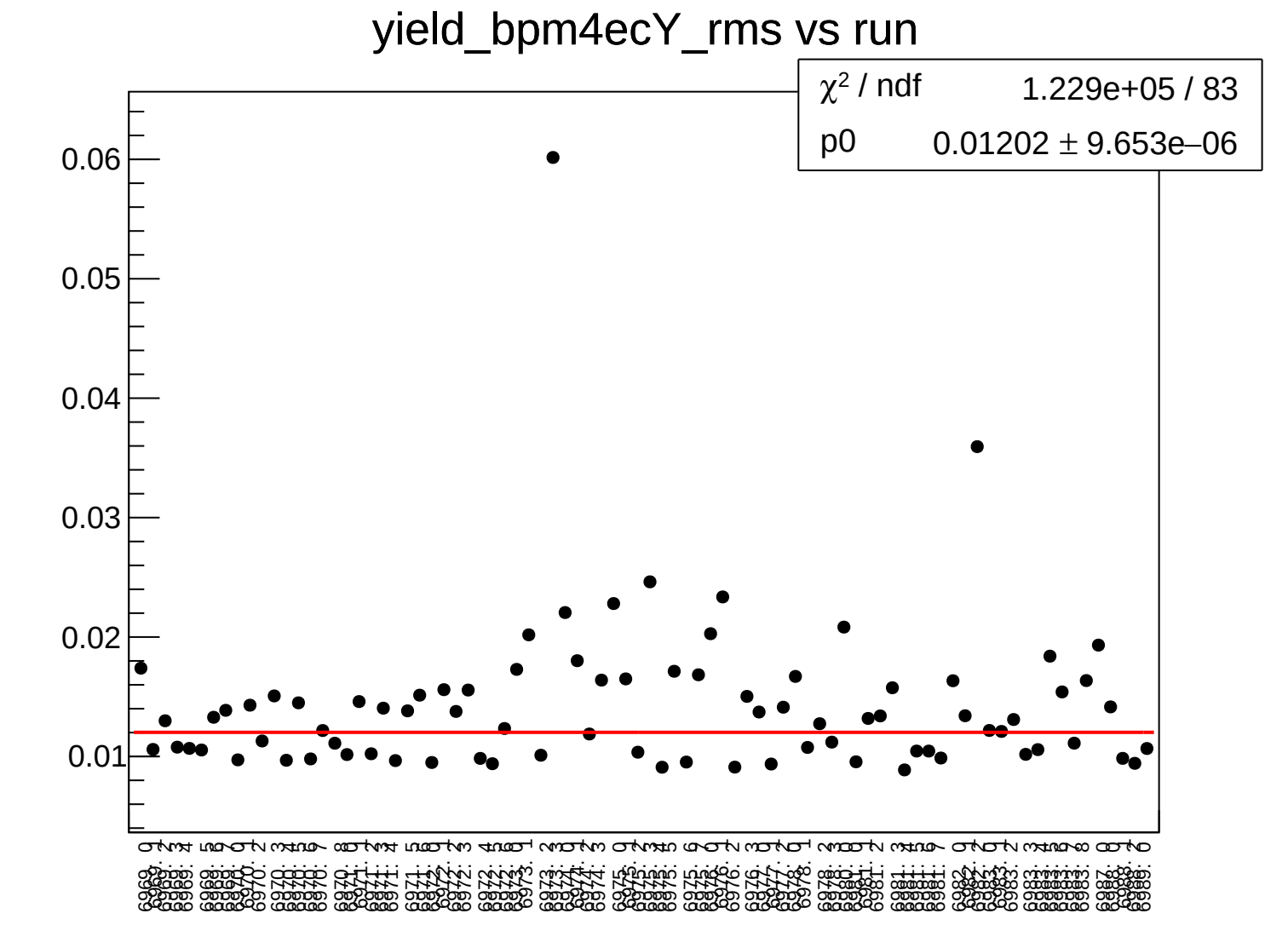

yield_bpm4ecX_mean vs run
χ² / ndf 2.901e+05 / 83
p0 −0.2648 ± 2.621e−05
pull
Entries 84
Mean 52.67
Std Dev 22.45

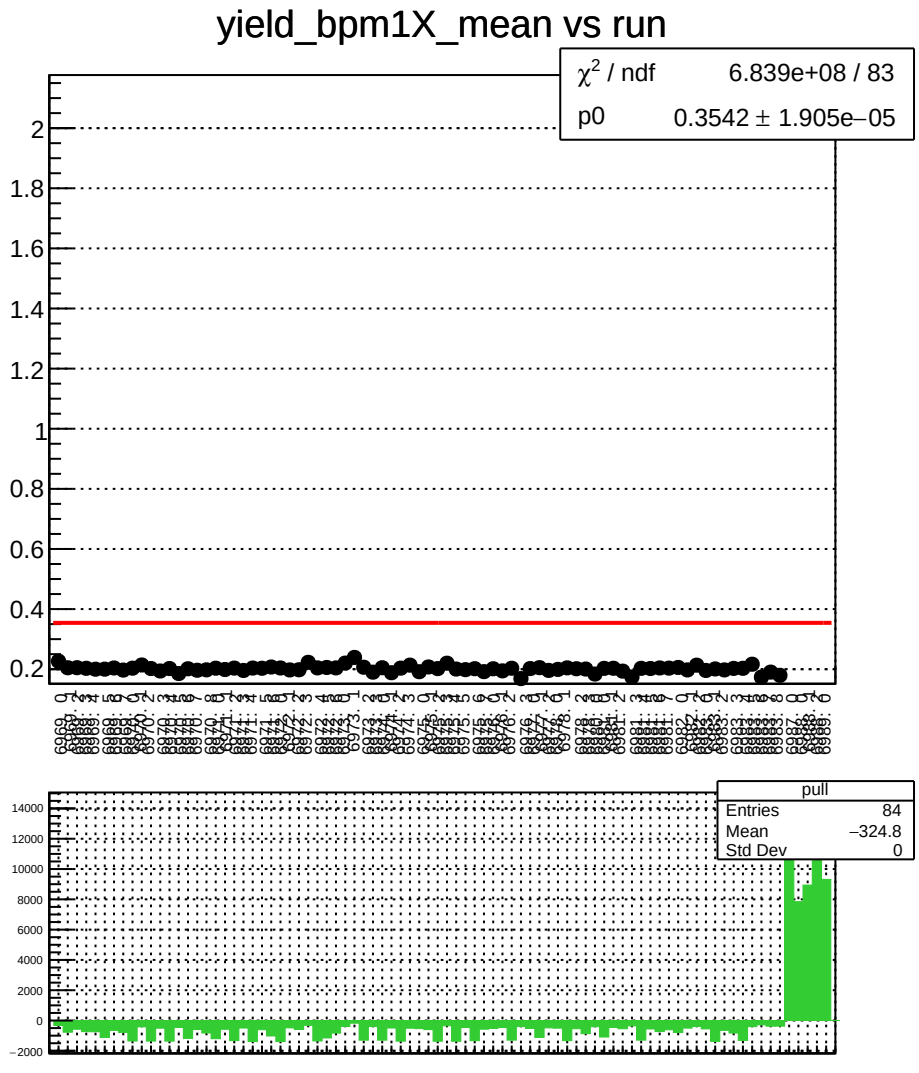

pull1D
Entries 84
Mean 0.3015
Std Dev 3.615

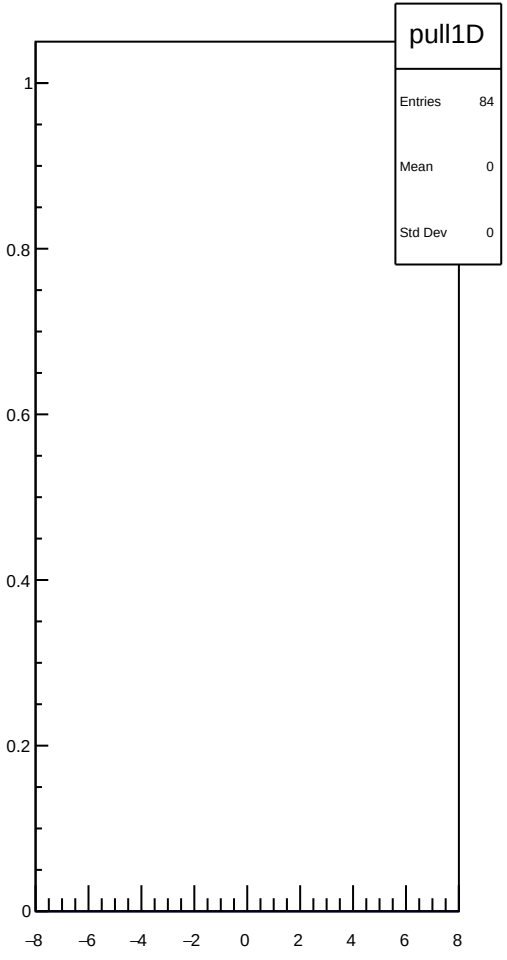

yield_bpm4ecX_rms vs run
χ² / ndf 3.189e+05 / 83
p0 0.02157 ± 1.853e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

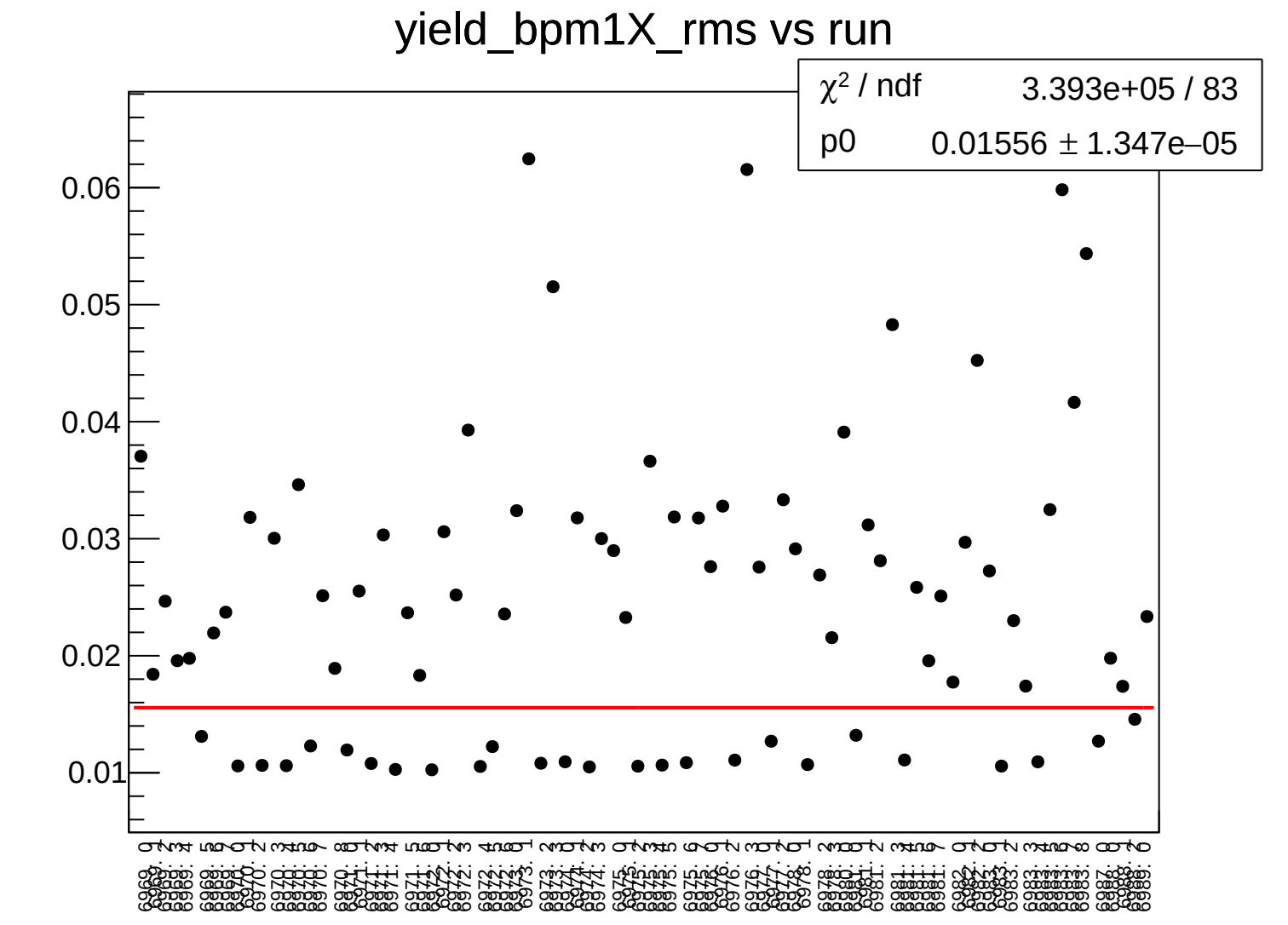

yield_bpm4ecY_mean vs run
χ² / ndf 9.536e+04 / 83
p0 −0.03589 ± 1.365e−05
0
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
pull
Entries 84
Mean 266.3
Std Dev 0
100
50
0
−50
−100

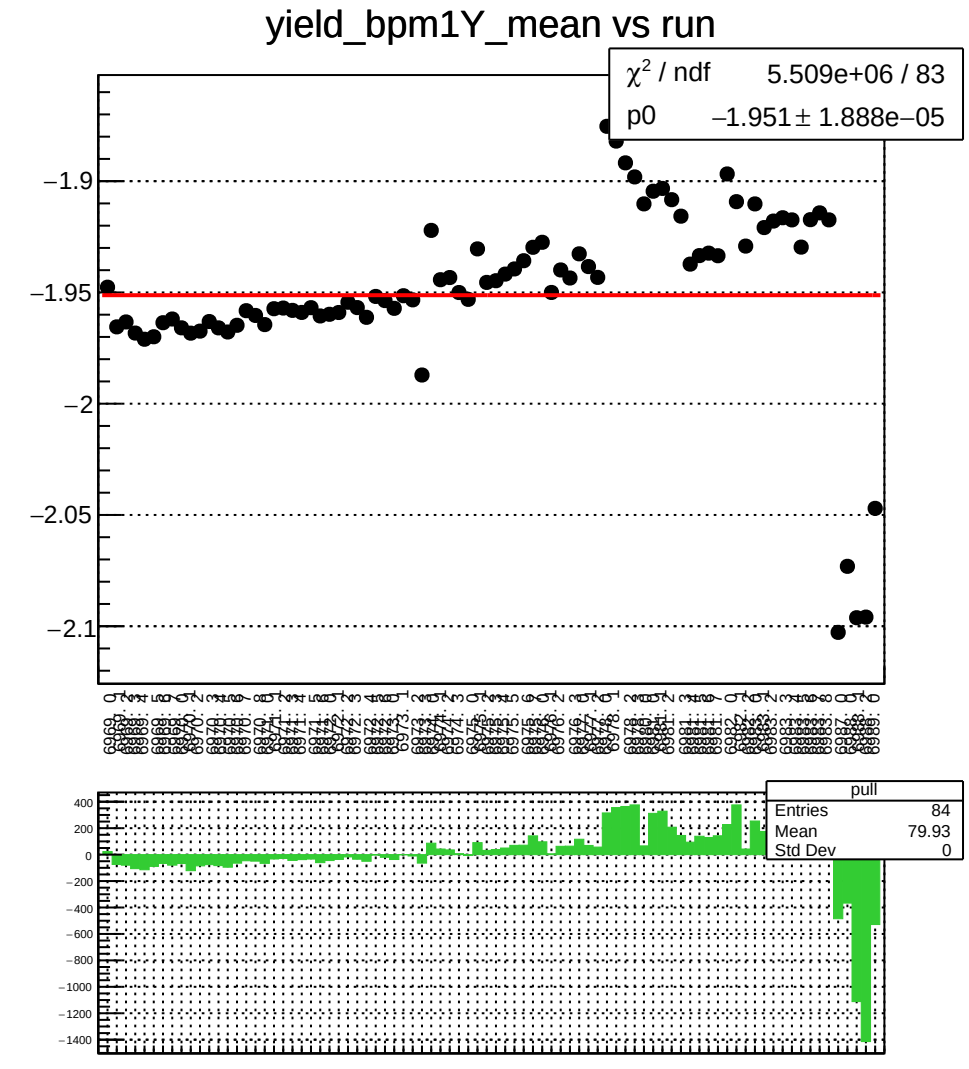

pull1D
Entries 84
Mean −1.287
Std Dev 4.702
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

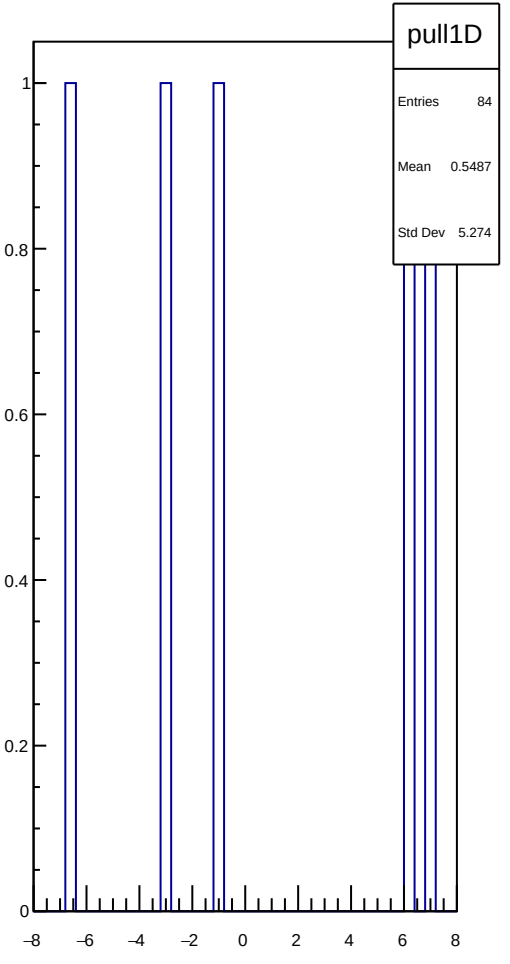

yield_bpm4ecY_rms vs run
χ² / ndf 1.229e+05 / 83
p0 0.01202 ± 9.653e–06
0.06
0.05
0.04
0.03
0.02
0.01

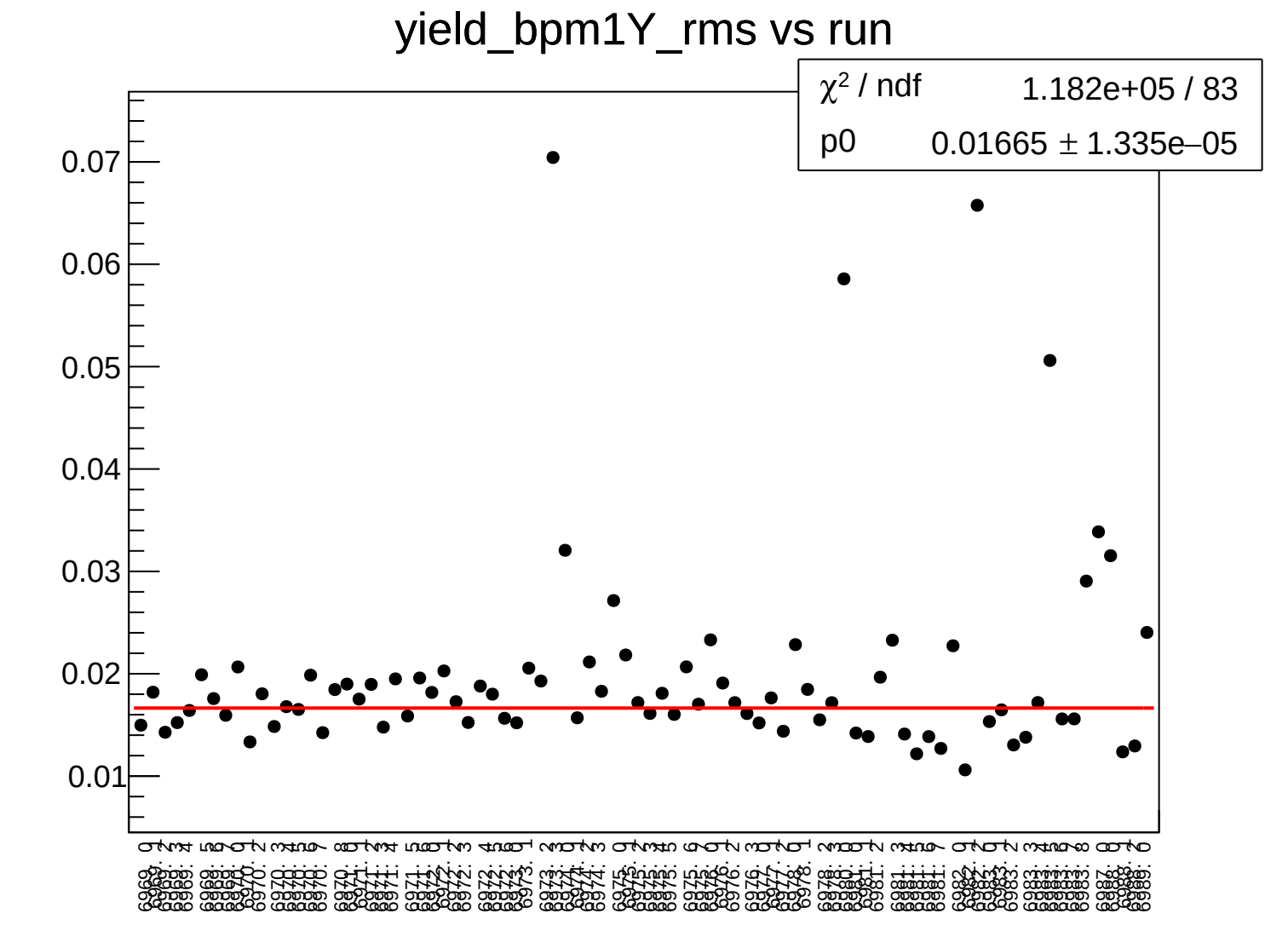

yield_bpm1X_mean vs run
χ² / ndf 6.839e+08 / 83
p0 0.3542 ± 1.905e−05
pull
Entries 84
Mean −324.8
Std Dev 0

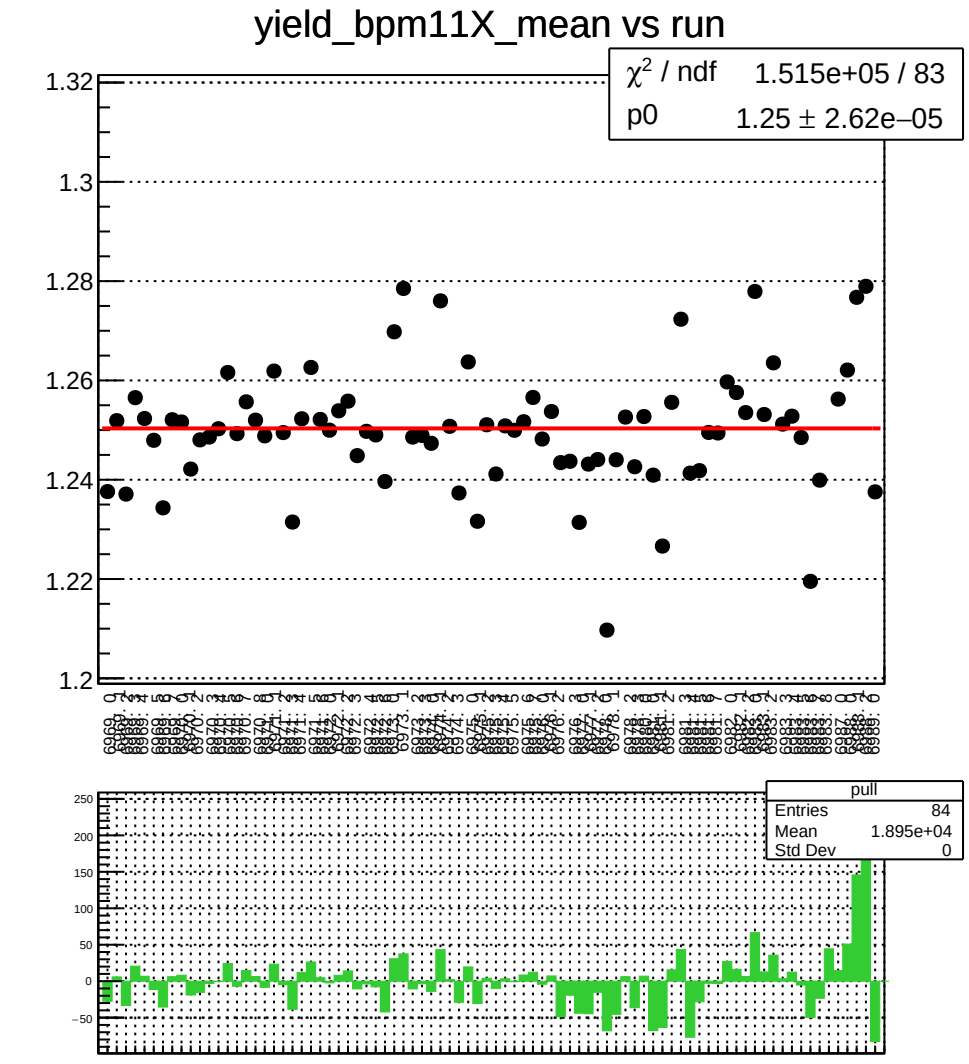

pull1D
Entries 84
Mean 0
Std Dev 0

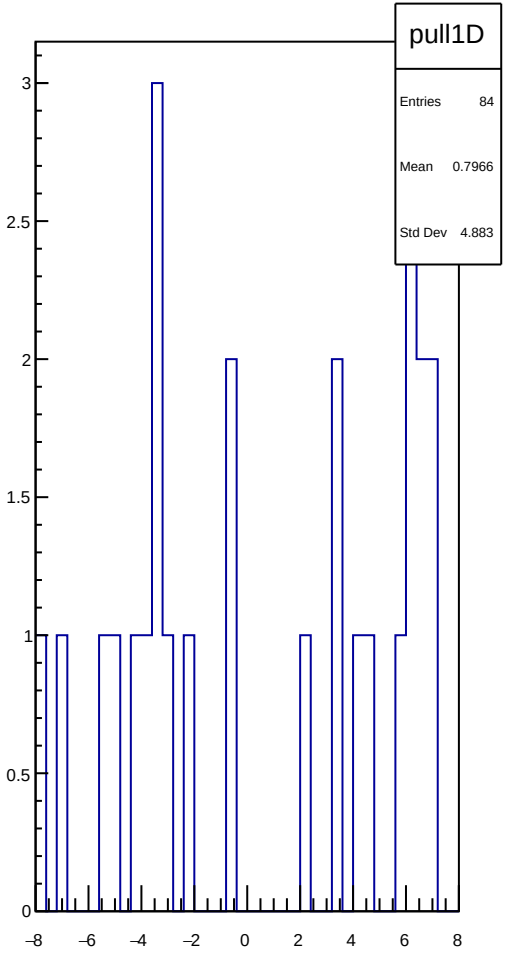

yield_bpm1X_rms vs run
χ² / ndf 3.393e+05 / 83
p0 0.01556 ± 1.347e−05
0.06
0.05
0.04
0.03
0.02
0.01

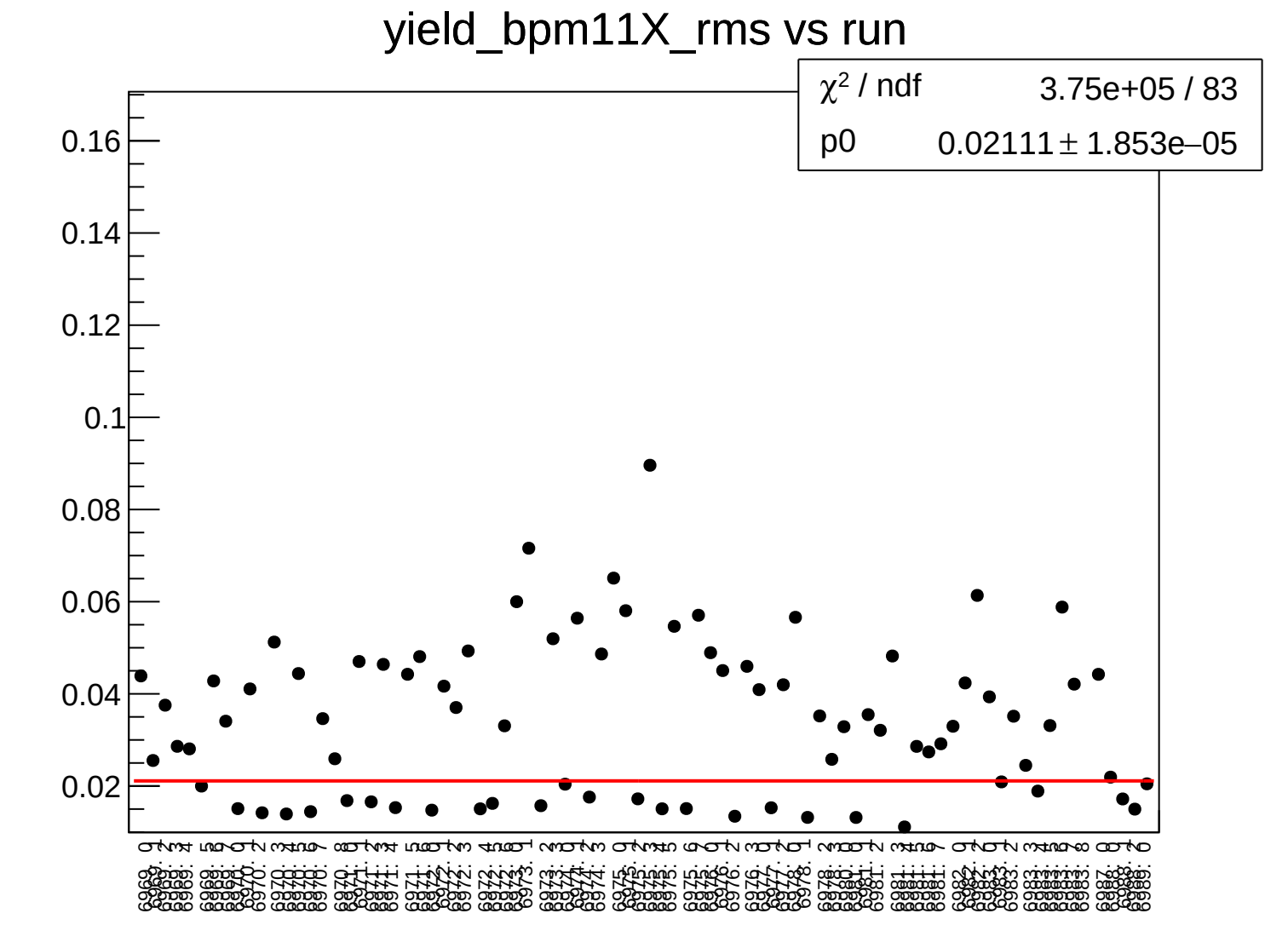

yield_bpm1Y_mean vs run
χ² / ndf 5.509e+06 / 83
p0 −1.951 ± 1.888e−05
−1.9
−1.95
−2
−2.05
−2.1
pull
Entries 84
Mean 79.93
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

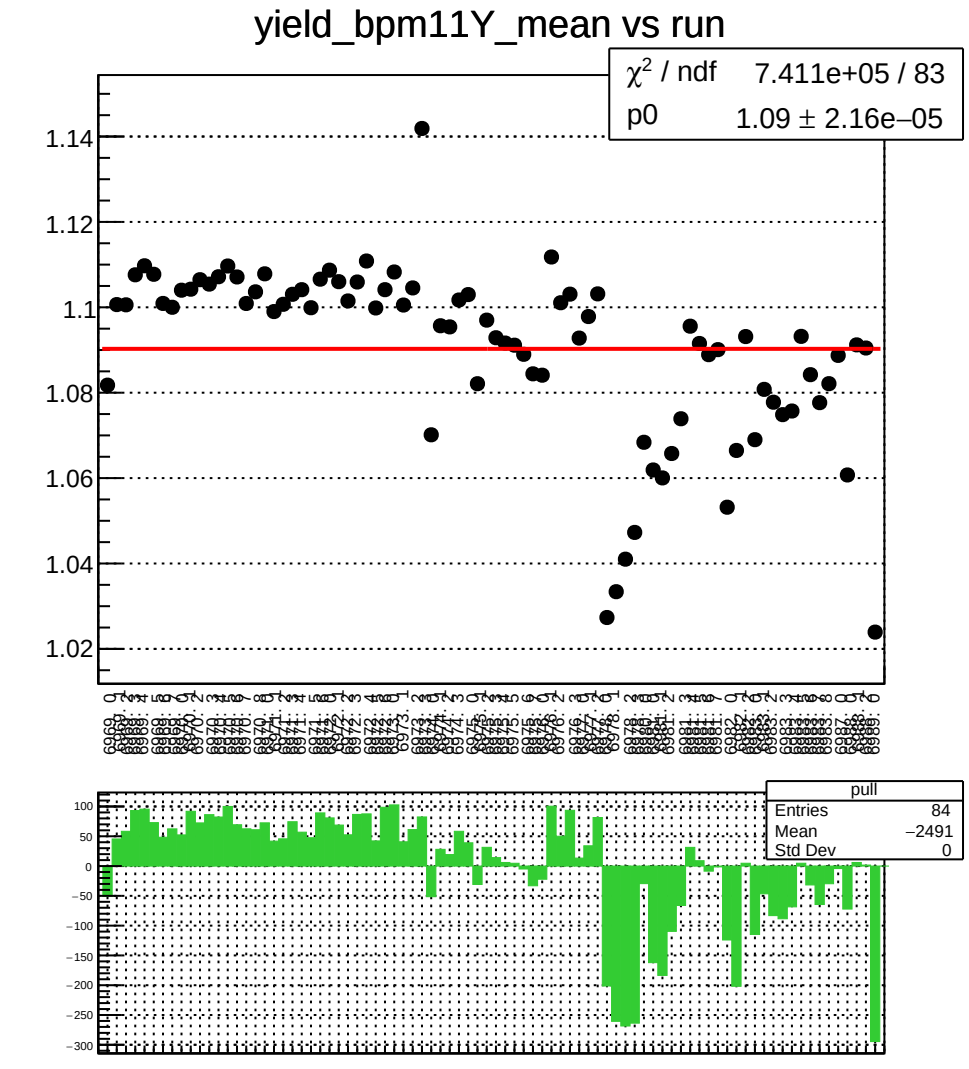

pull1D
Entries 84
Mean 0.5487
Std Dev 5.274
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

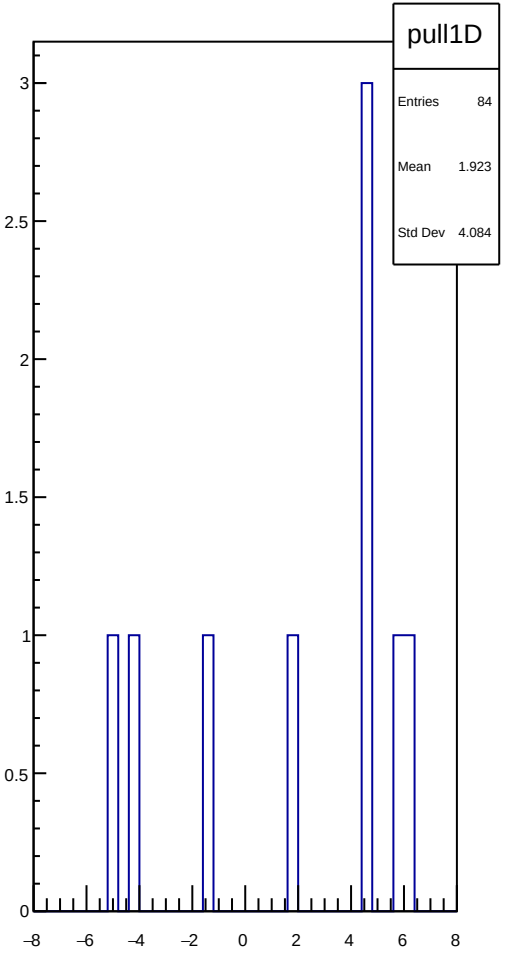

yield_bpm1Y_rms vs run
χ² / ndf 1.182e+05 / 83
p0 0.01665 ± 1.335e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

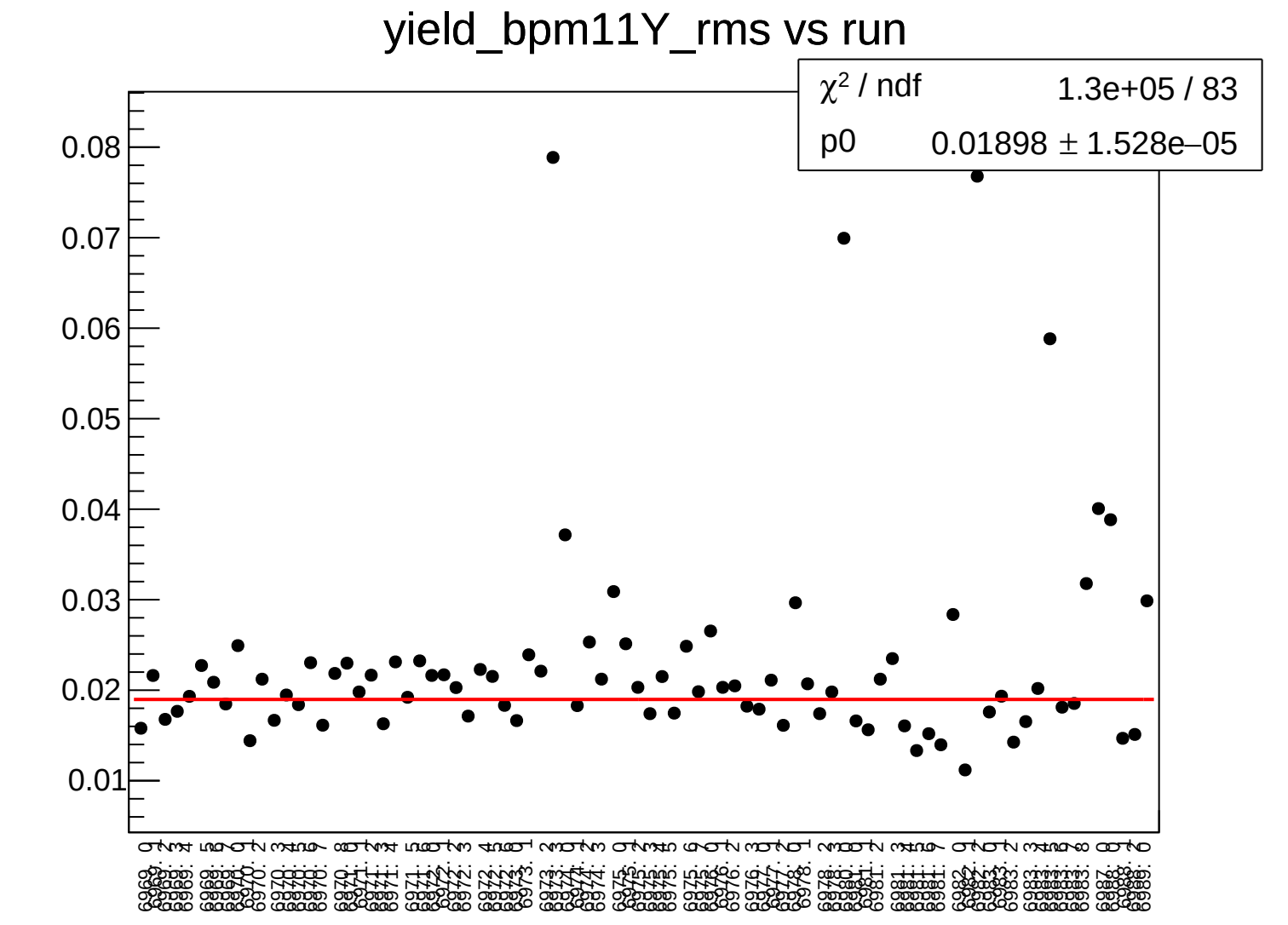

yield_bpm11X_mean vs run
χ² / ndf 1.515e+05 / 83
p0 1.25 ± 2.62e−05
1.32
1.3
1.28
1.26
1.24
1.22
1.2
pull
Entries 84
Mean 1.895e+04
Std Dev 0
250
200
150
100
50
0
−50

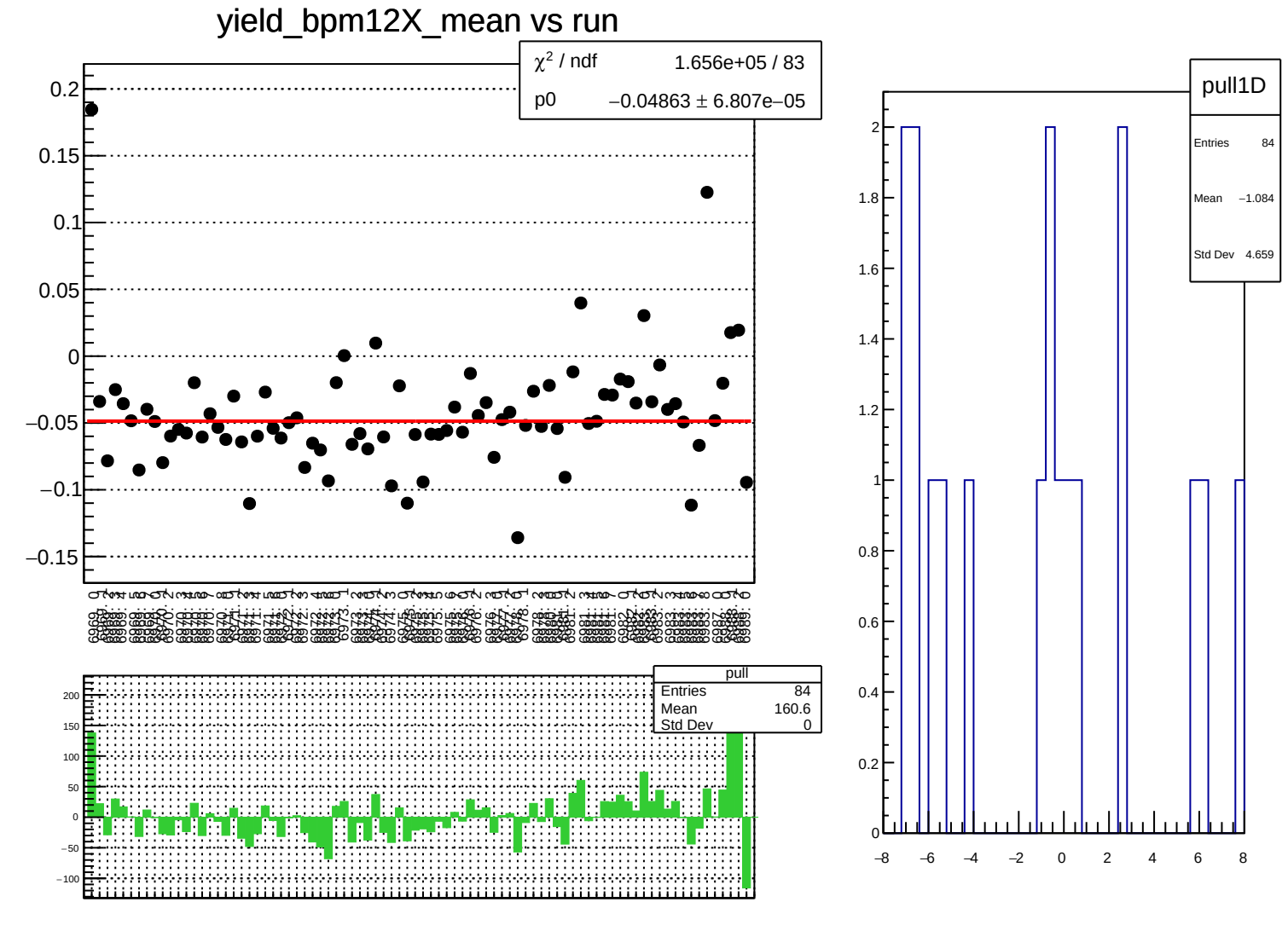

pull1D
Entries 84
Mean 0.7966
Std Dev 4.883
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

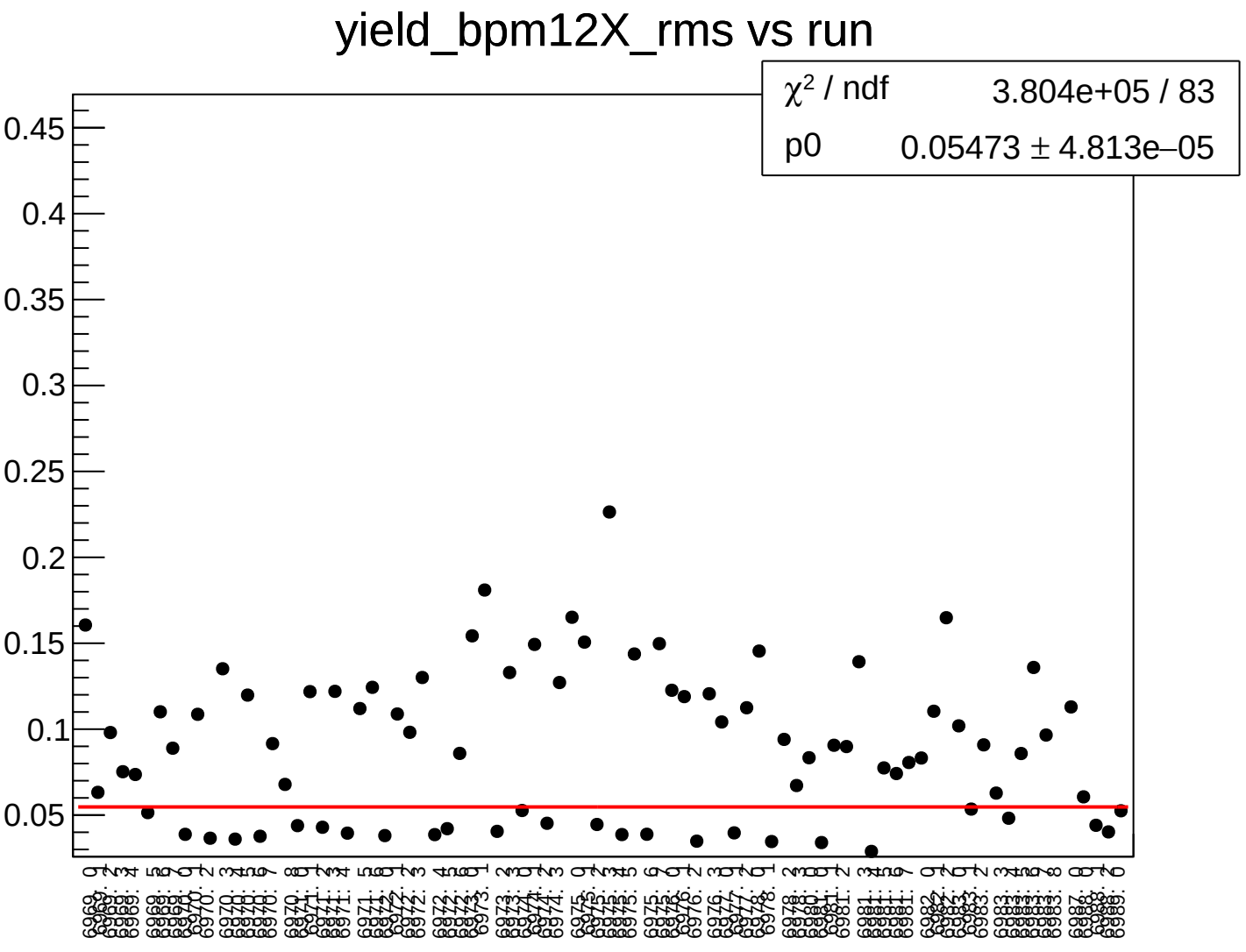

yield_bpm11X_rms vs run
χ² / ndf 3.75e+05 / 83
p0 0.02111 ± 1.853e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

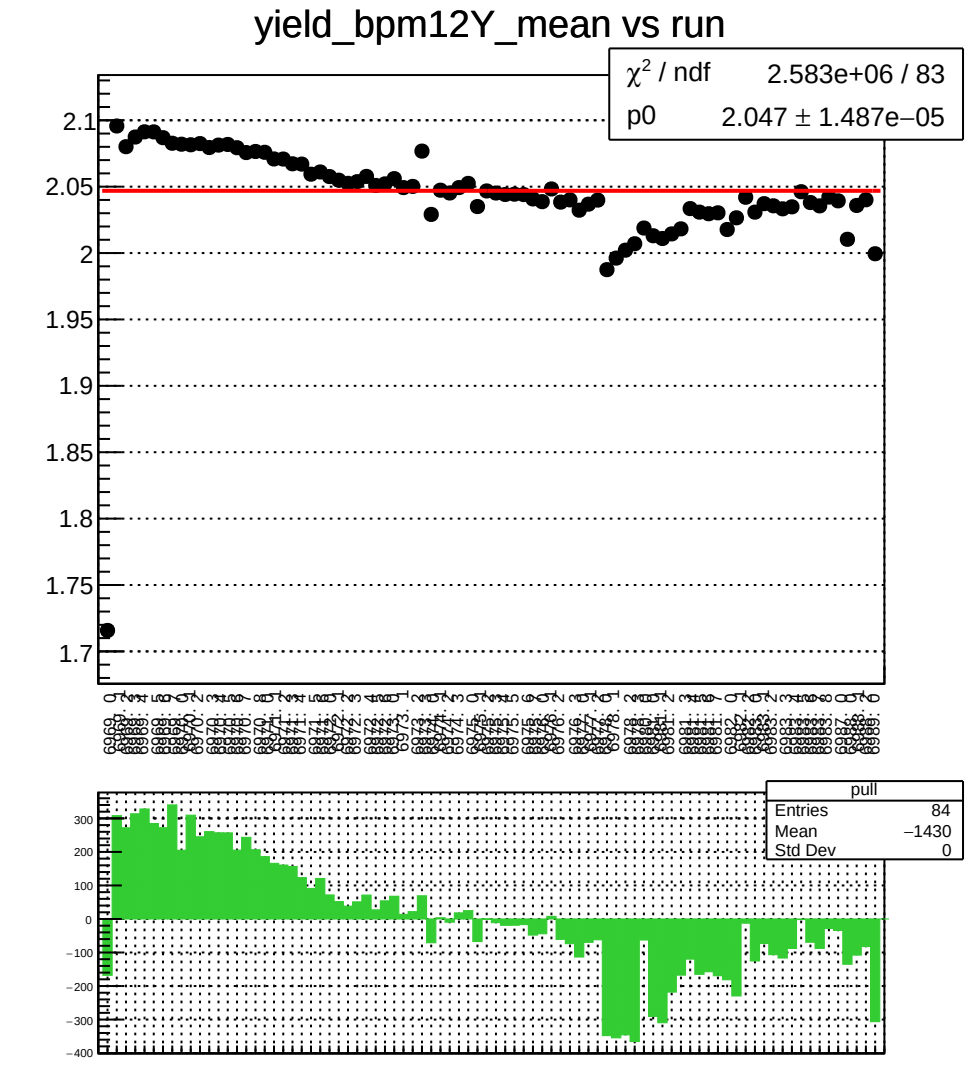

yield_bpm11Y_mean vs run
χ² / ndf 7.411e+05 / 83
p0 1.09 ± 2.16e−05
1.14
1.12
1.1
1.08
1.06
1.04
1.02
pull
Entries 84
Mean −2491
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300

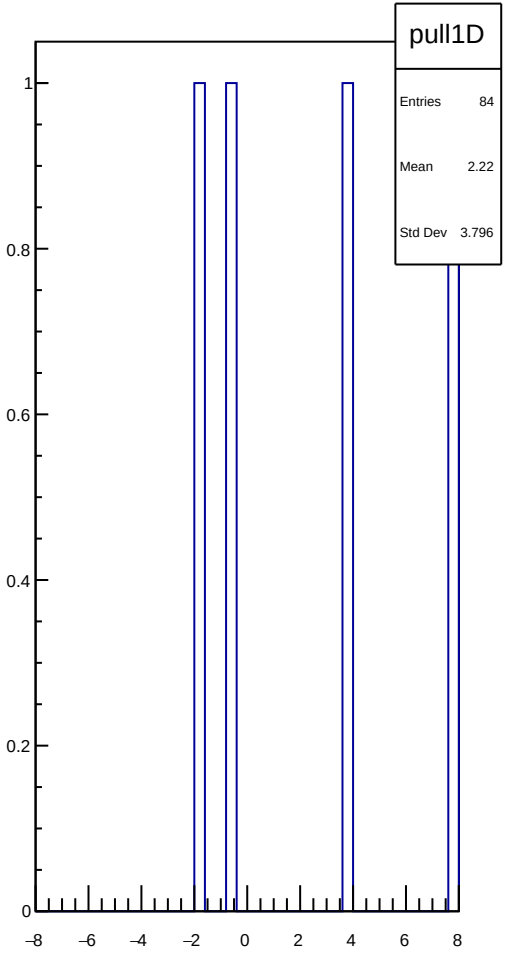

pull1D
Entries 84
Mean 1.923
Std Dev 4.084
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

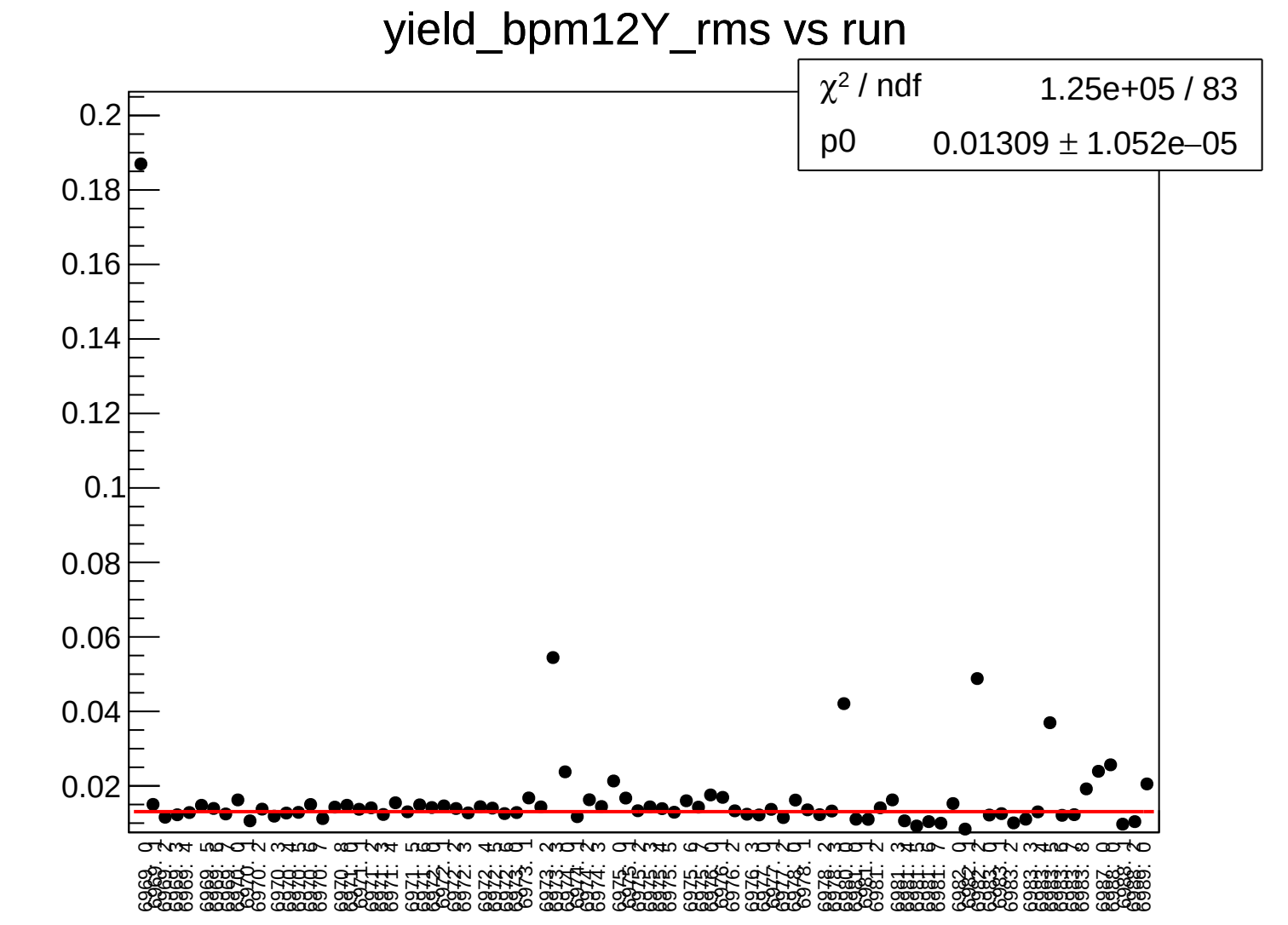

yield_bpm11Y_rms vs run
χ² / ndf 1.3e+05 / 83
p0 0.01898 ± 1.528e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

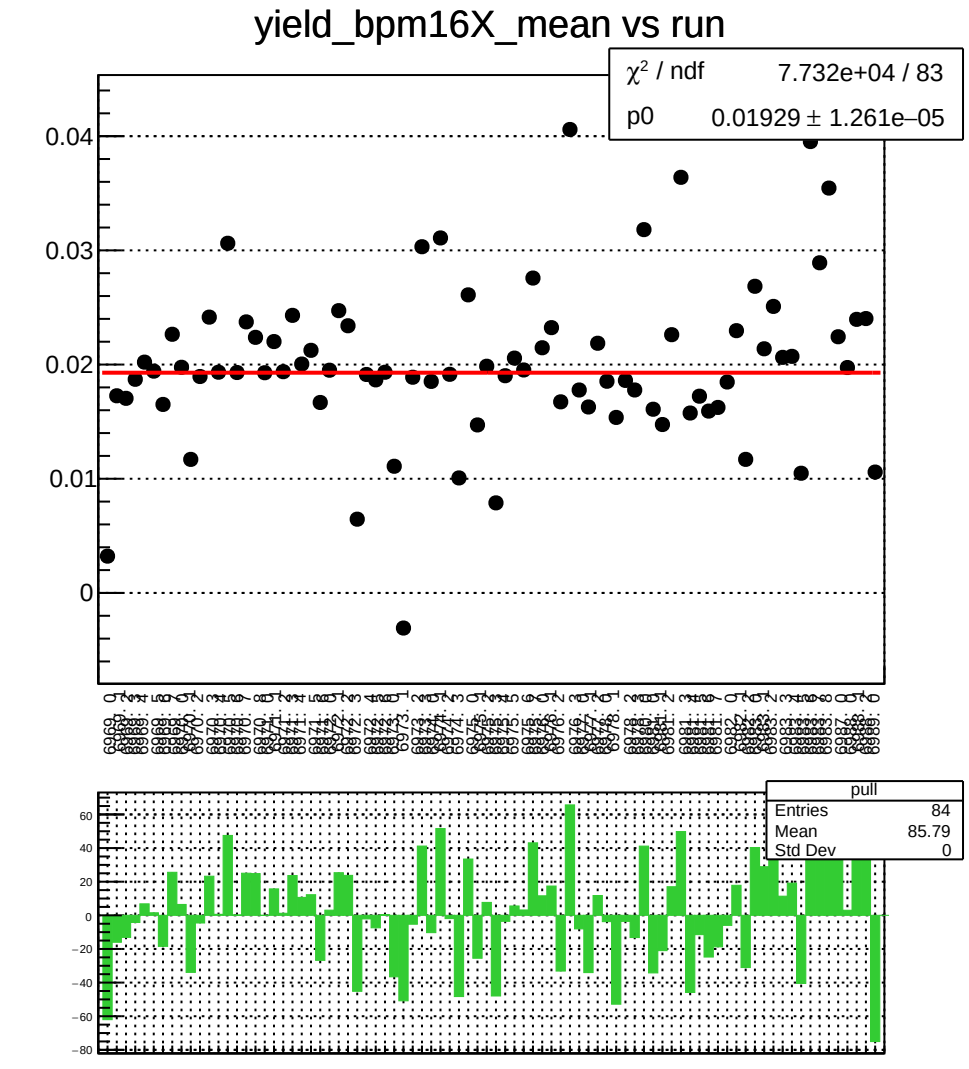

yield_bpm12X_mean vs run
χ² / ndf 1.656e+05 / 83
p0 −0.04863 ± 6.807e−05
pull
Entries 84
Mean 160.6
Std Dev 0
pull1D
Entries 84
Mean −1.084
Std Dev 4.659

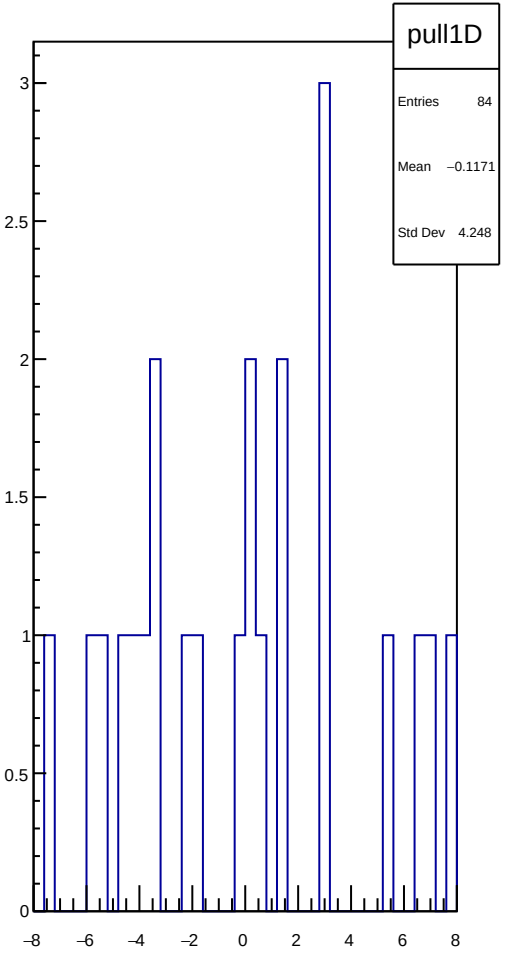

yield_bpm12X_rms vs run
χ² / ndf 3.804e+05 / 83
p0 0.05473 ± 4.813e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

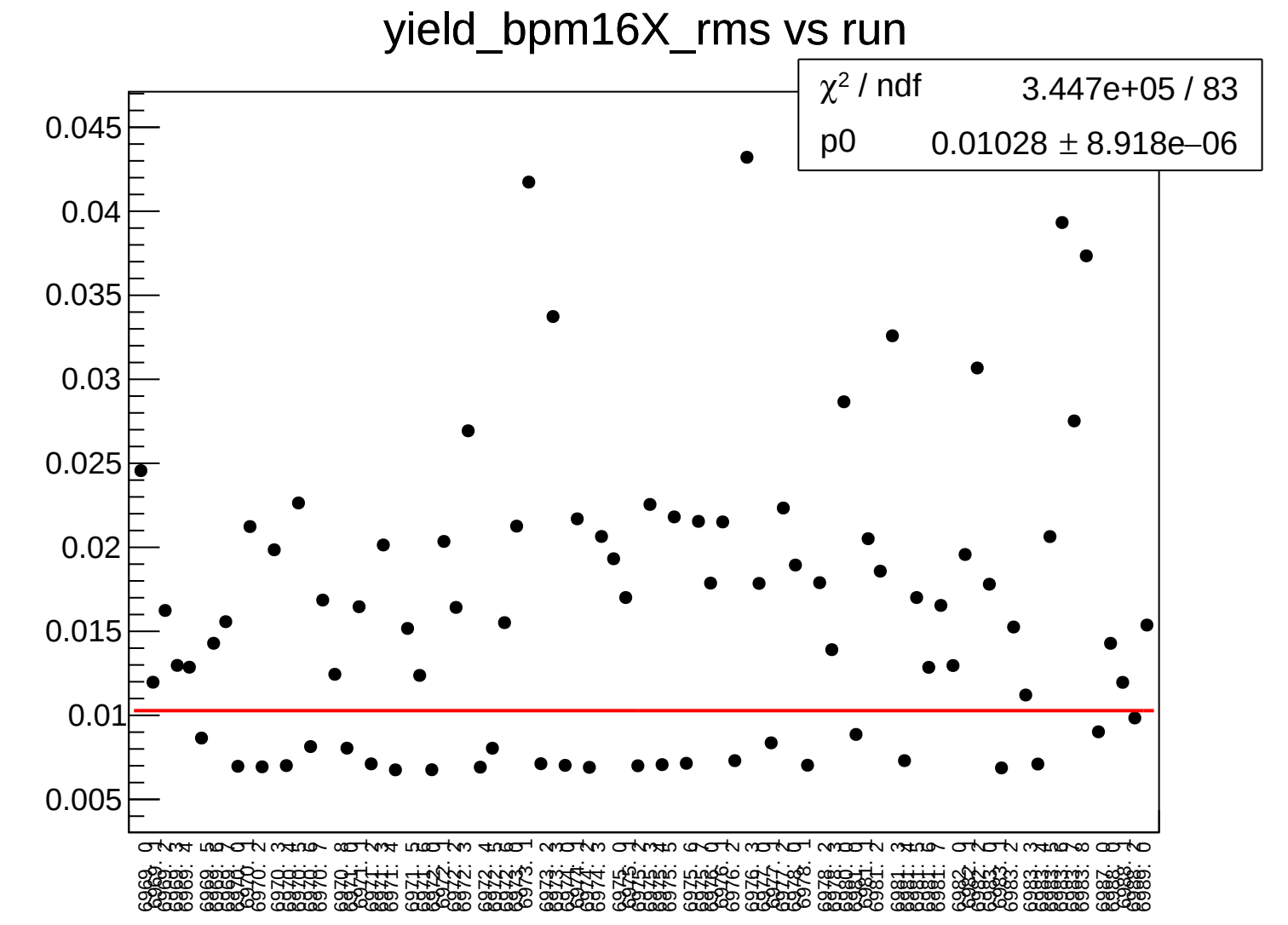

yield_bpm12Y_mean vs run
χ² / ndf 2.583e+06 / 83
p0 2.047 ± 1.487e−05
pull
Entries 84
Mean −1430
Std Dev 0

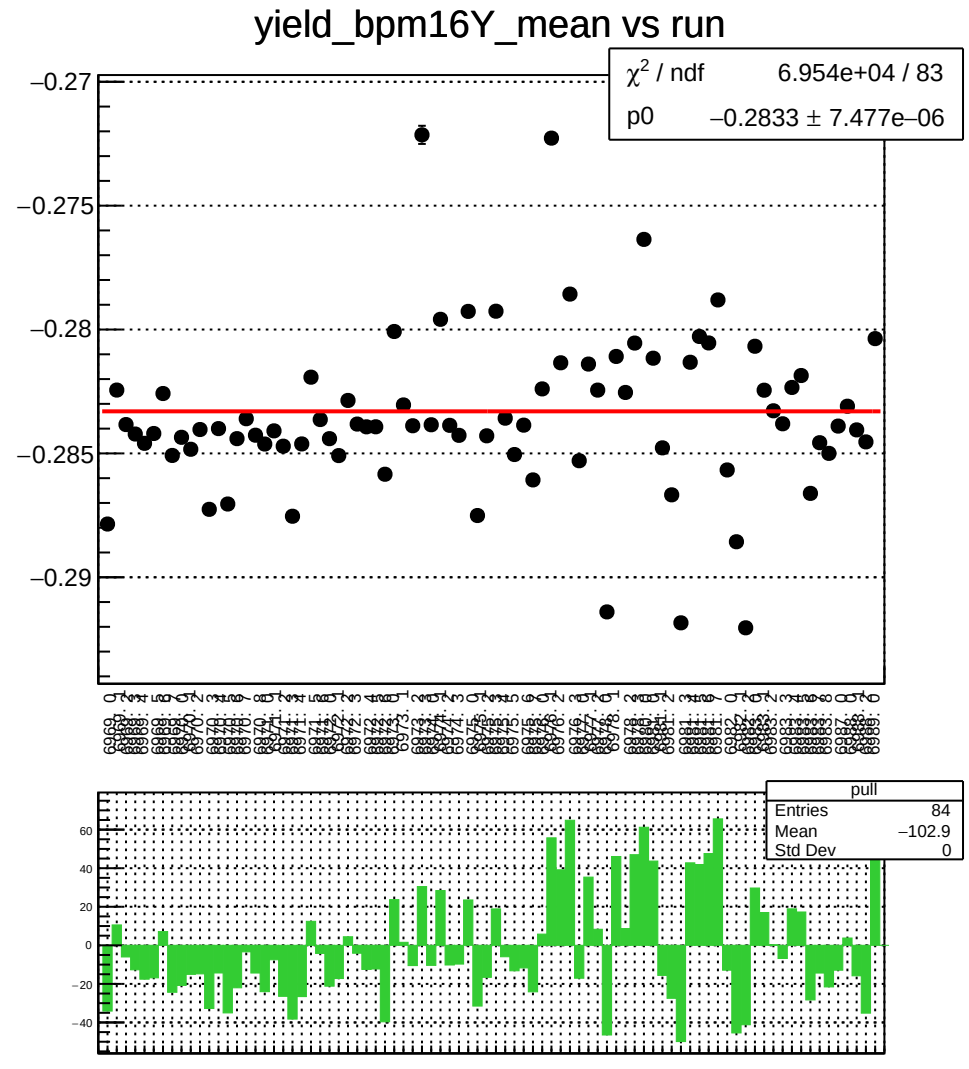

pull1D
Entries 84
Mean 2.22
Std Dev 3.796

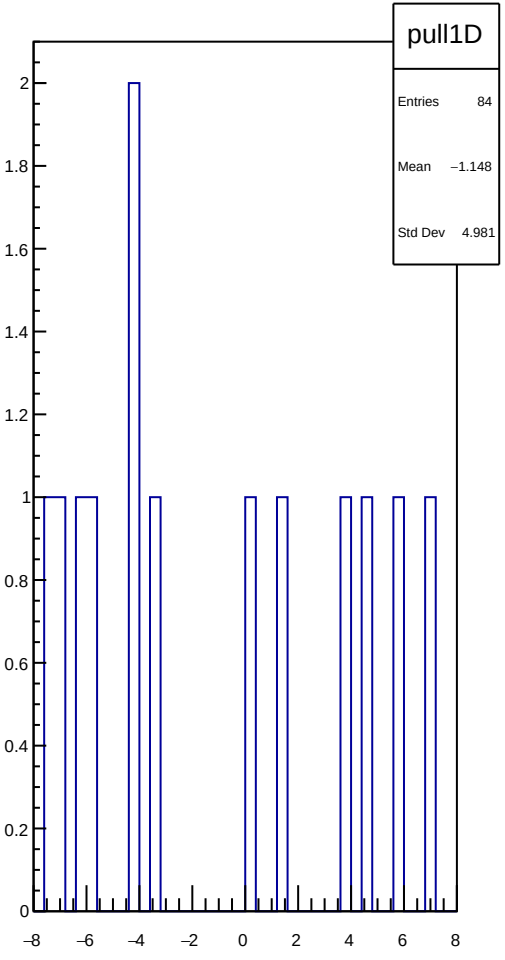

yield_bpm12Y_rms vs run
χ² / ndf 1.25e+05 / 83
p0 0.01309 ± 1.052e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

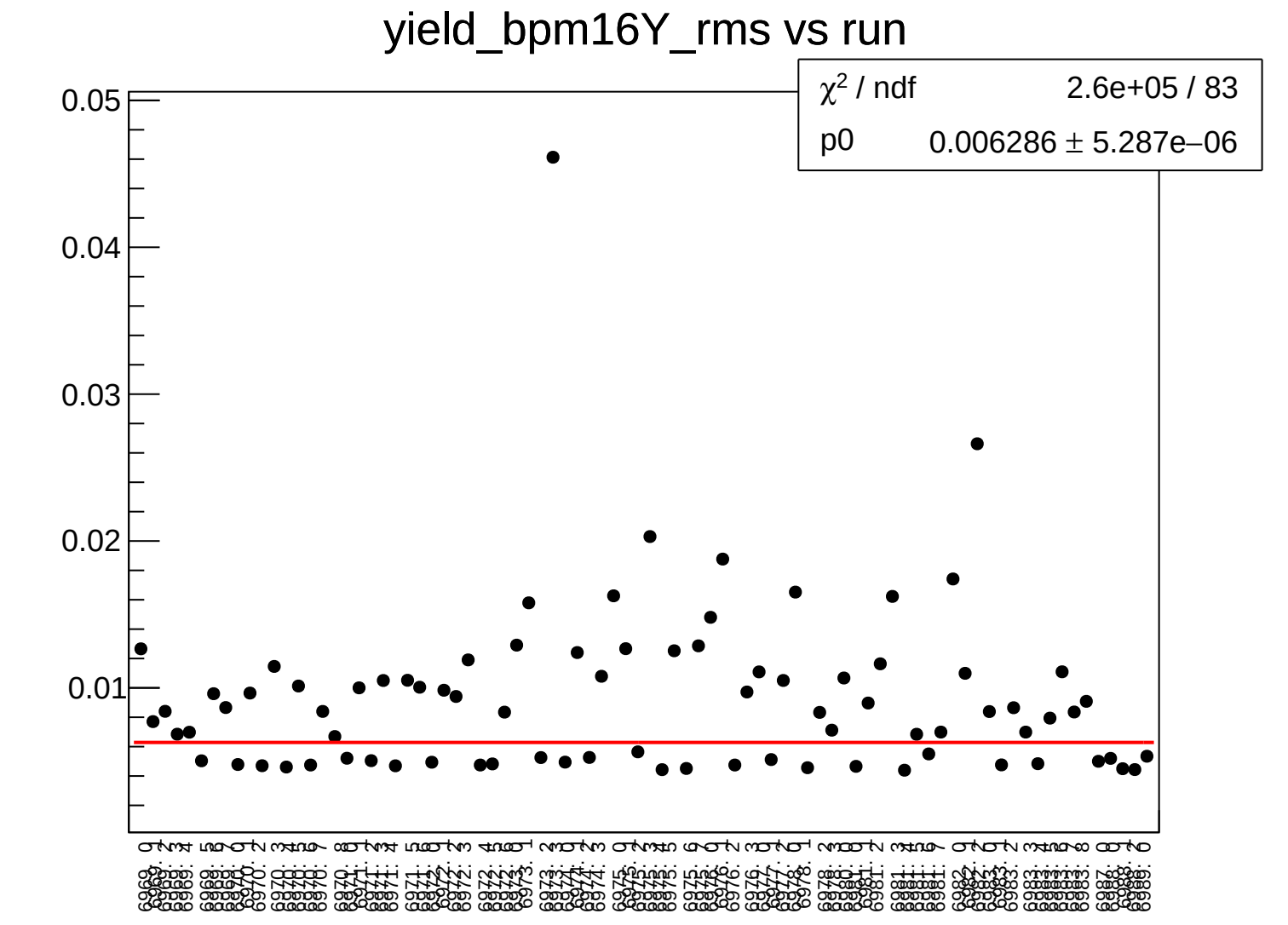

yield_bpm16X_mean vs run
χ² / ndf 7.732e+04 / 83
p0 0.01929 ± 1.261e−05
0.04
0.03
0.02
0.01
0
pull
Entries 84
Mean 85.79
Std Dev 0
60
40
20
0
−20
−40
−60
−80

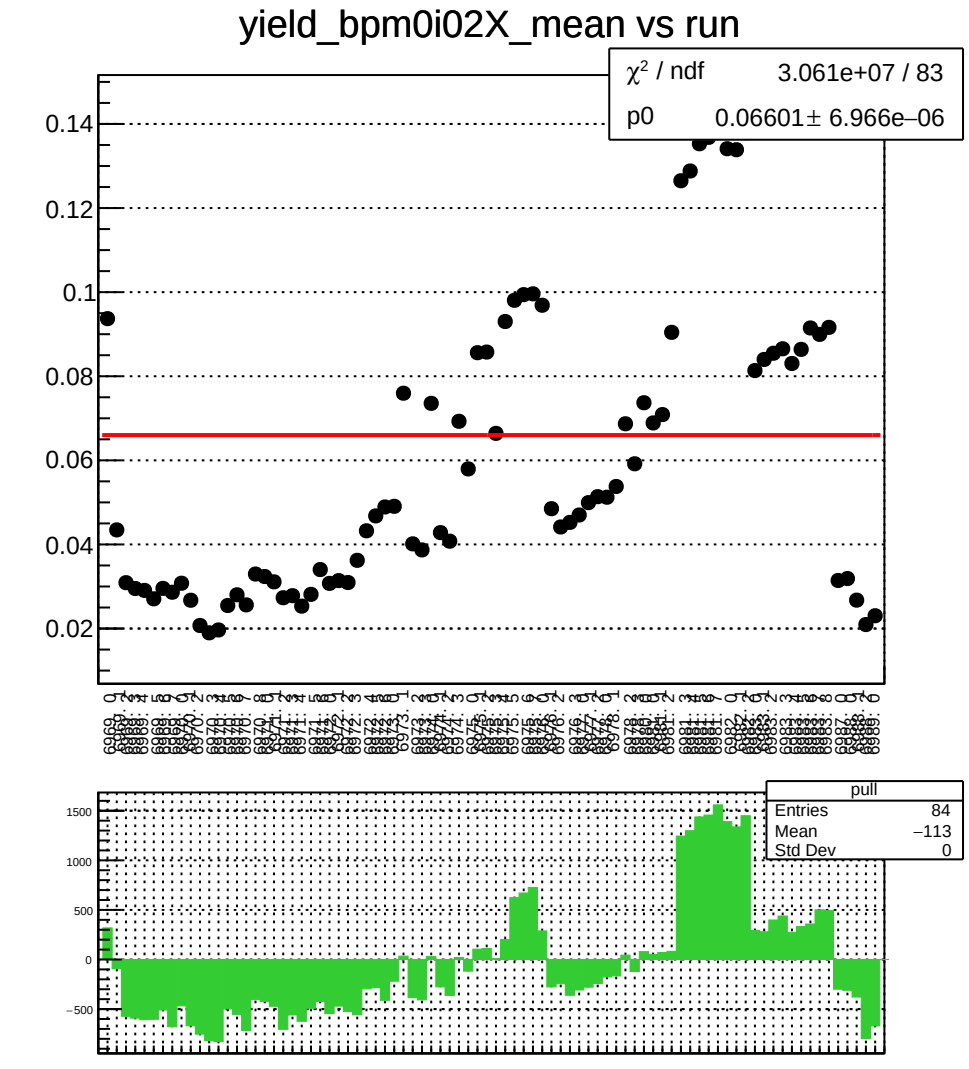

pull1D
Entries 84
Mean −0.1171
Std Dev 4.248
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

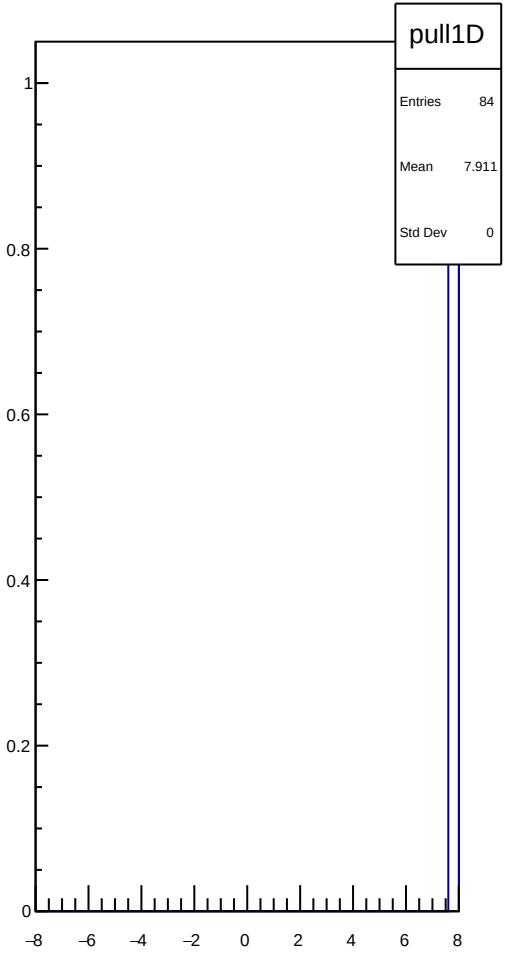

yield_bpm16X_rms vs run
χ² / ndf 3.447e+05 / 83
p0 0.01028 ± 8.918e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

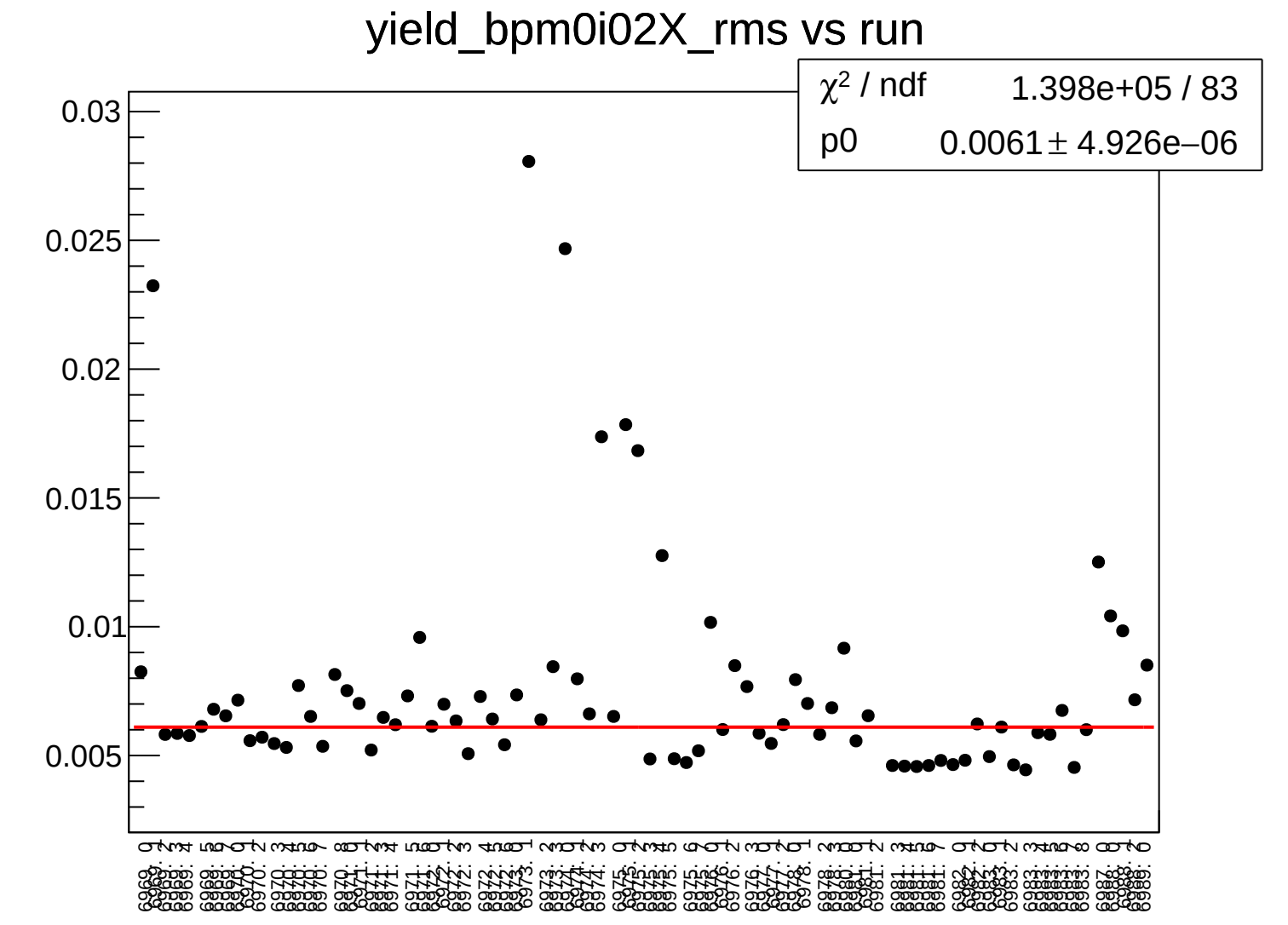

yield_bpm16Y_mean vs run
χ² / ndf 6.954e+04 / 83
p0 −0.2833 ± 7.477e−06
−0.27
−0.275
−0.28
−0.285
−0.29
pull
Entries 84
Mean −102.9
Std Dev 0
60
40
20
0
−20
−40

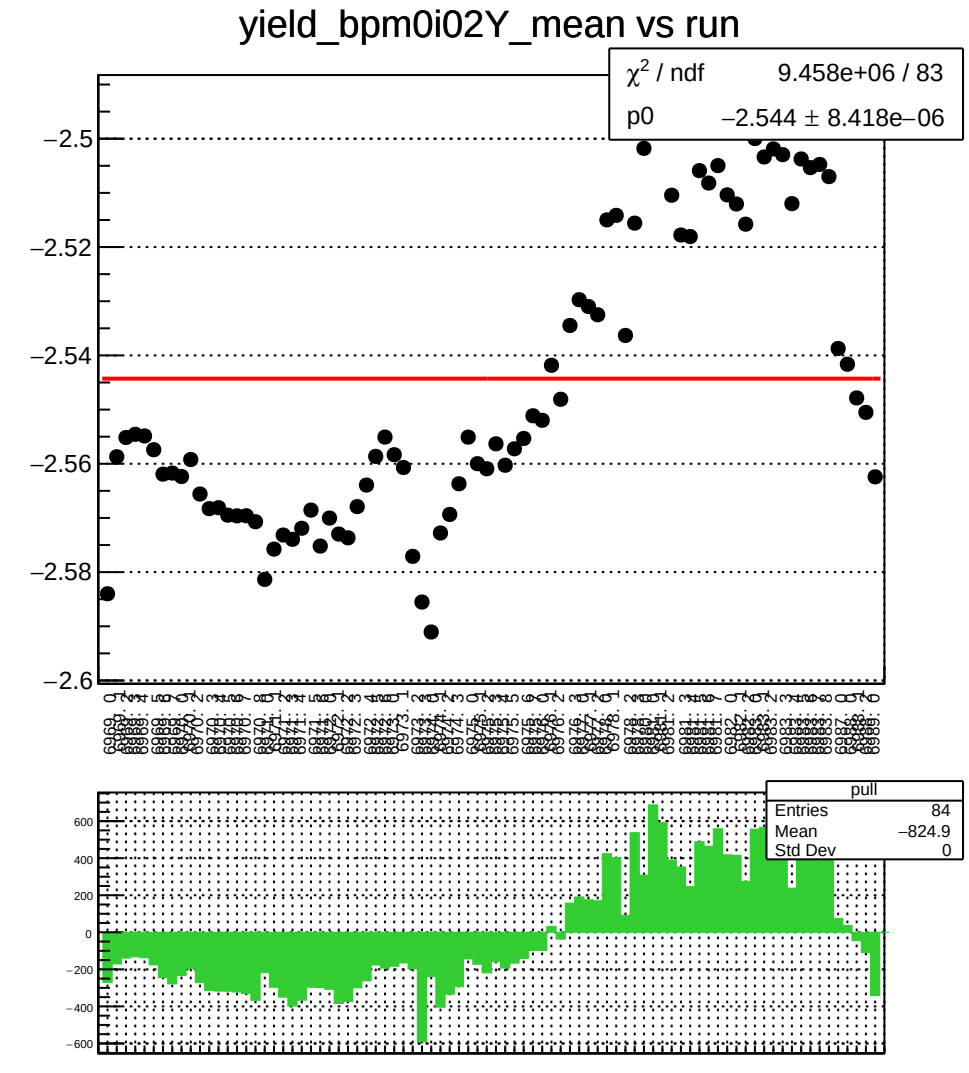

pull1D
Entries 84
Mean −1.148
Std Dev 4.981
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

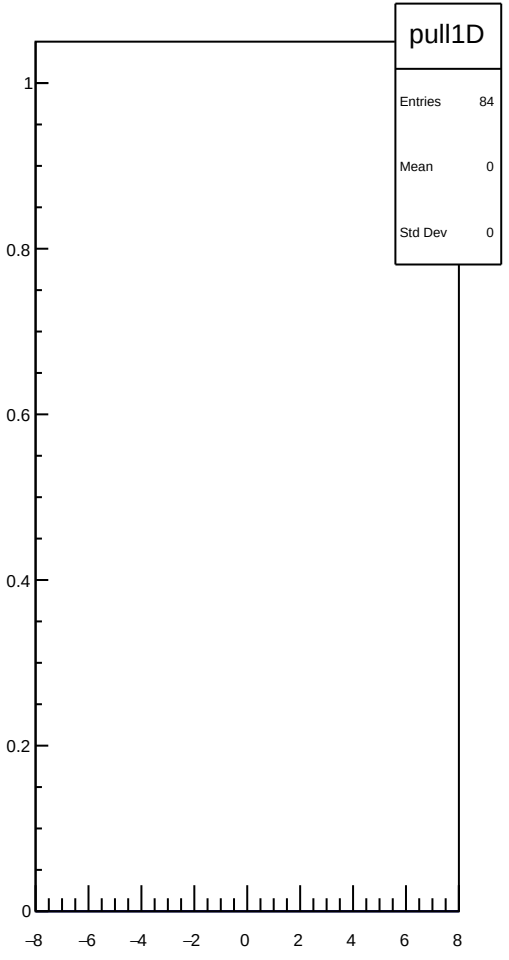

yield_bpm16Y_rms vs run
χ² / ndf 2.6e+05 / 83
p0 0.006286 ± 5.287e−06
0.05
0.04
0.03
0.02
0.01

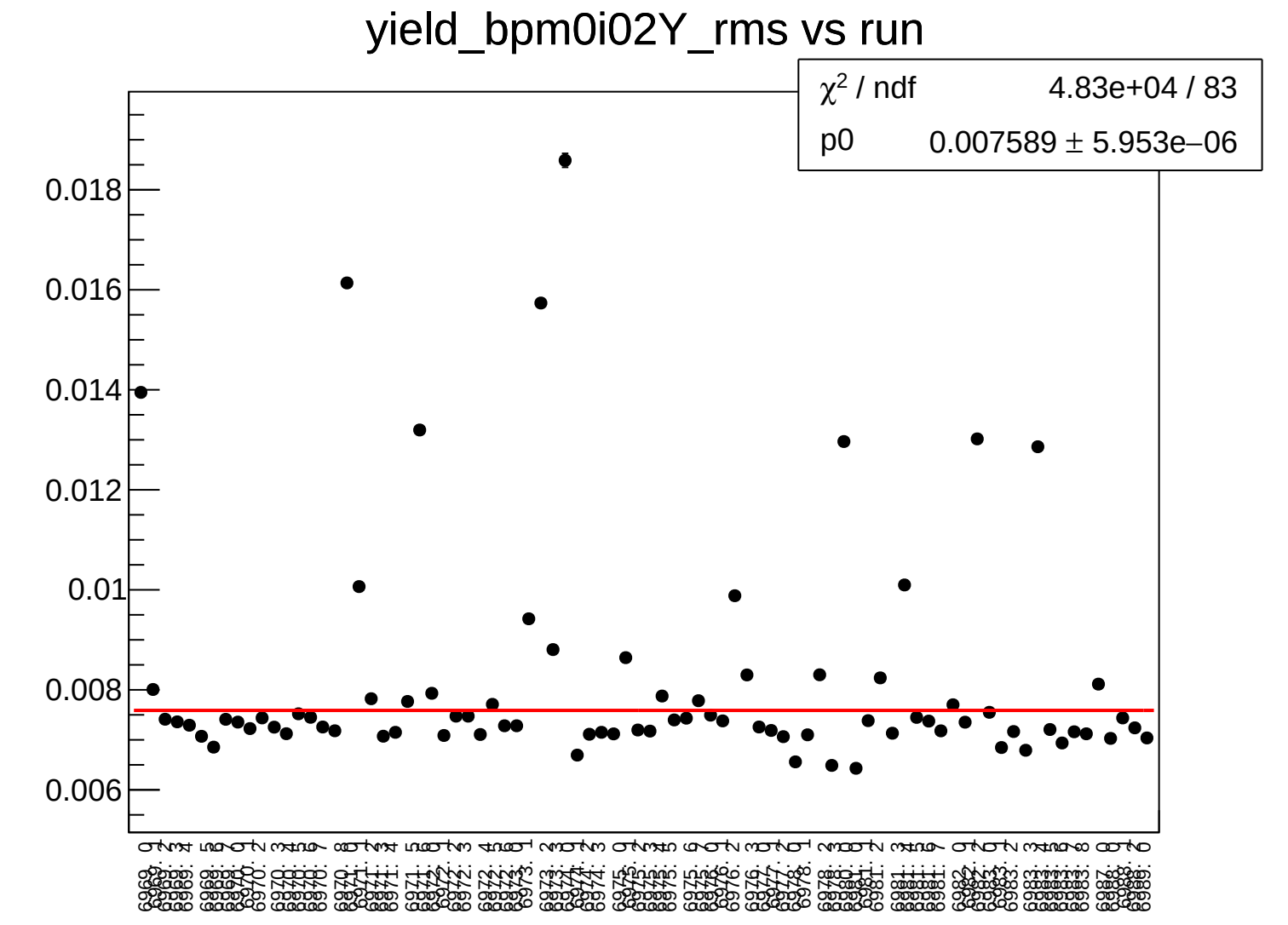

yield_bpm0i02X_mean vs run
χ² / ndf 3.061e+07 / 83
p0 0.06601± 6.966e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02
pull
Entries 84
Mean −113
Std Dev 0
1500
1000
500
0
−500

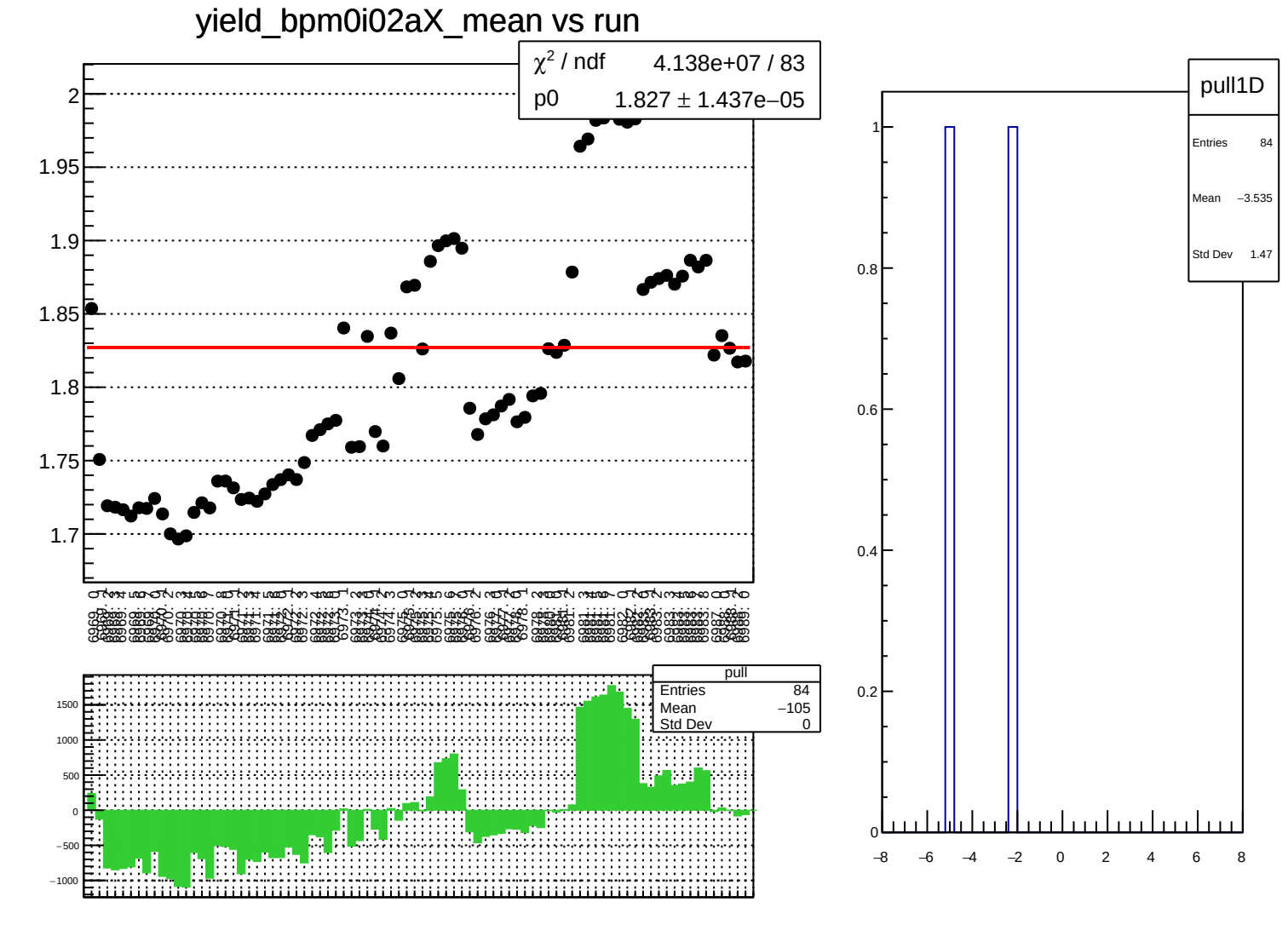

pull1D
Entries 84
Mean 7.911
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

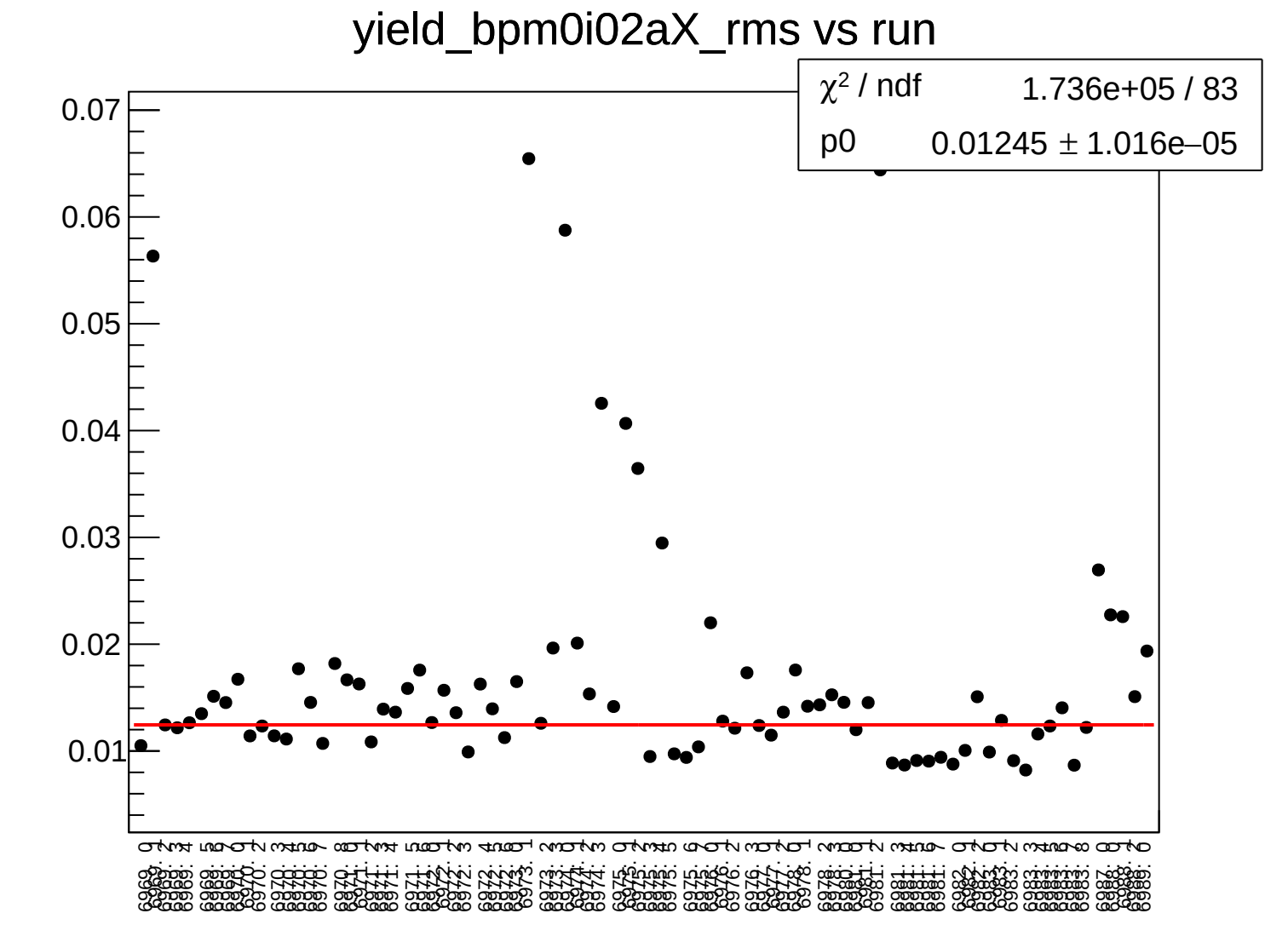

yield_bpm0i02X_rms vs run
χ² / ndf 1.398e+05 / 83
p0 0.0061 ± 4.926e−06
0.03
0.025
0.02
0.015
0.01
0.005

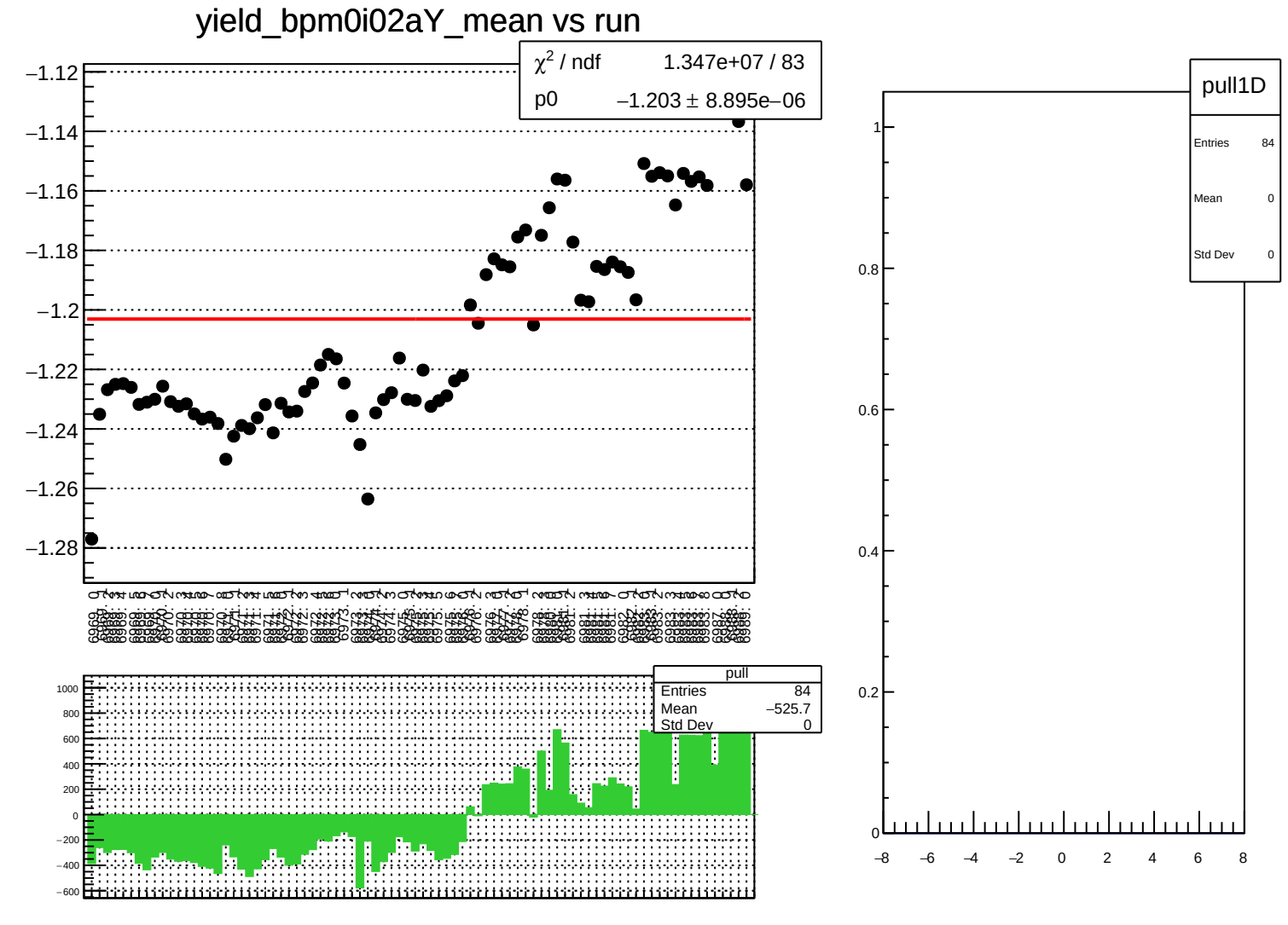

yield_bpm0i02Y_mean vs run
χ² / ndf 9.458e+06 / 83
p0 −2.544 ± 8.418e−06
−2.5
−2.52
−2.54
−2.56
−2.58
−2.6
pull
Entries 84
Mean −824.9
Std Dev 0
600
400
200
0
−200
−400
−600

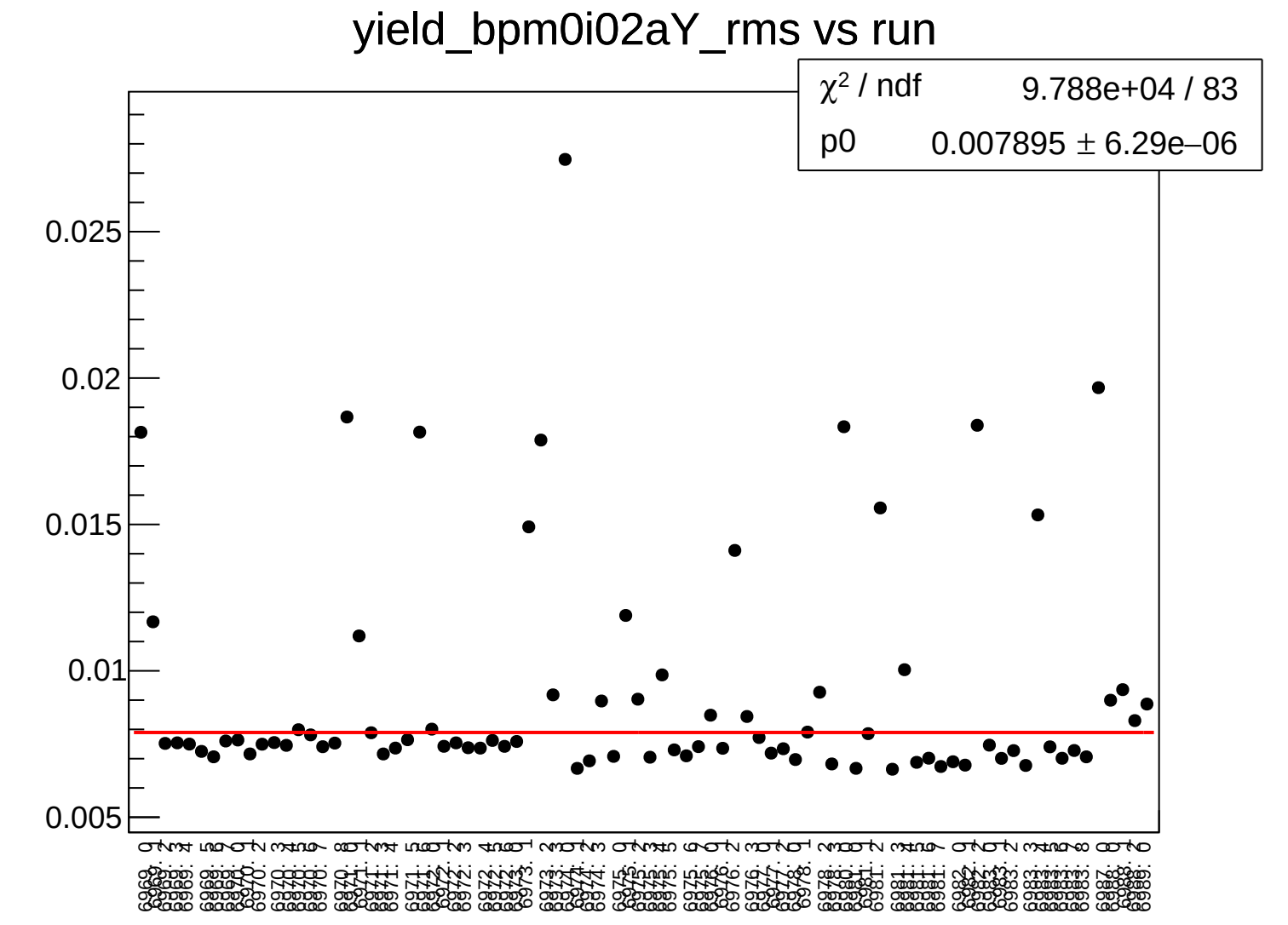

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

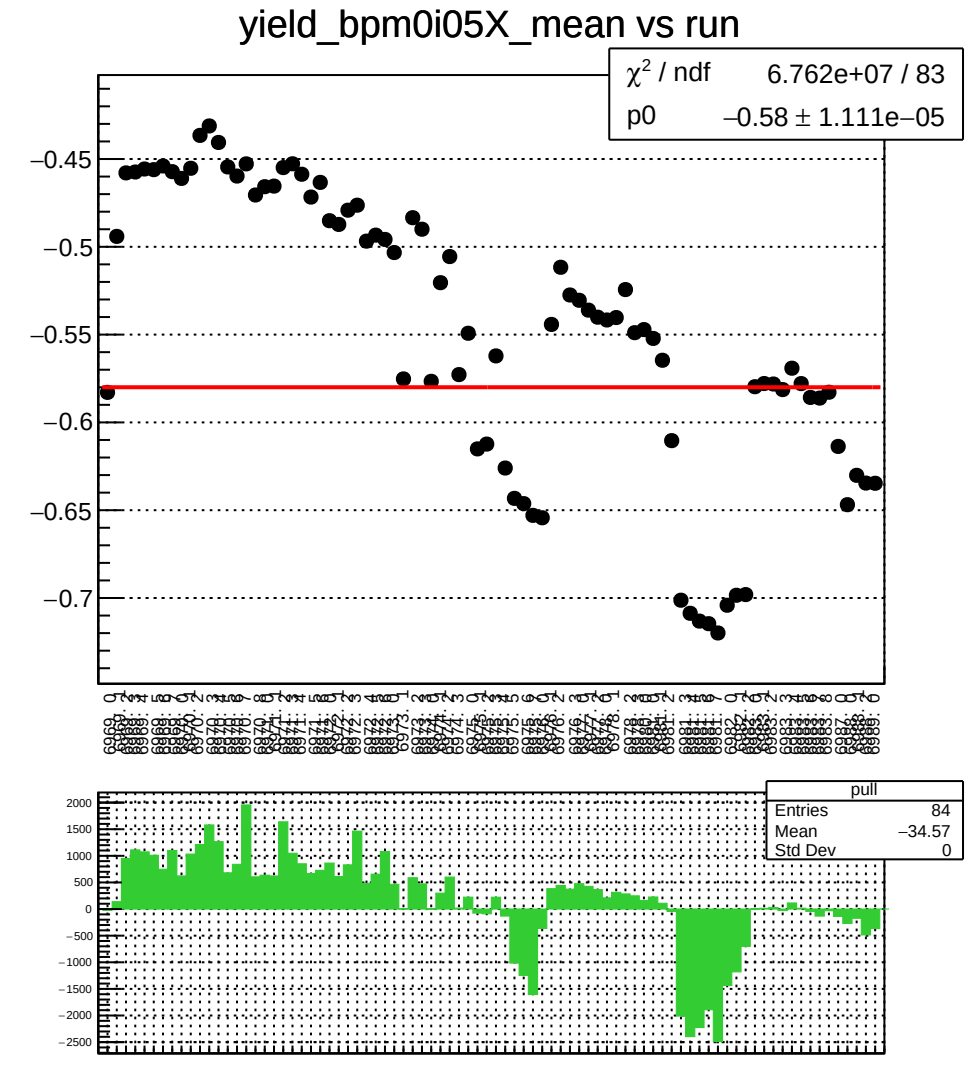

yield_bpm0i02Y_rms vs run
χ^2 / ndf 4.83e+04 / 83
p0 0.007589 ± 5.953e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

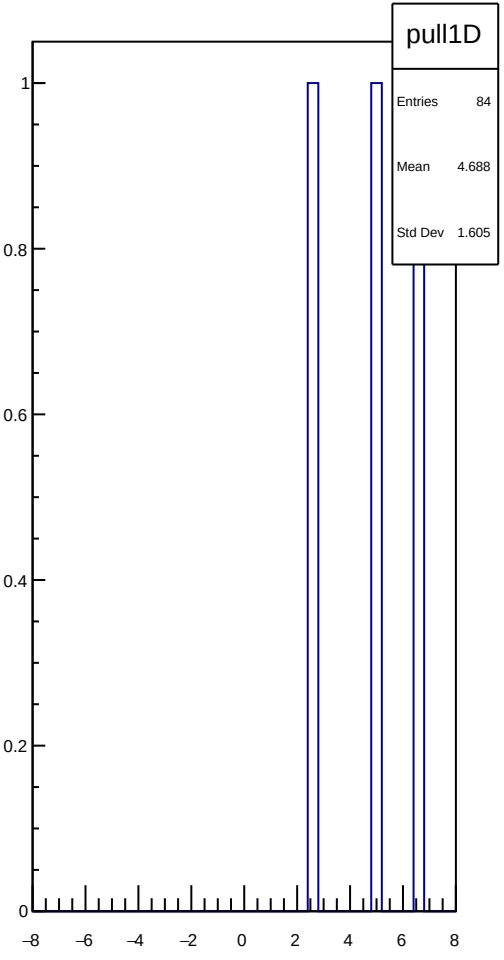

yield_bpm0i02aX_mean vs run
χ² / ndf 4.138e+07 / 83
p0 1.827 ± 1.437e−05
pull
Entries 84
Mean −105
Std Dev 0
pull1D
Entries 84
Mean −3.535
Std Dev 1.47

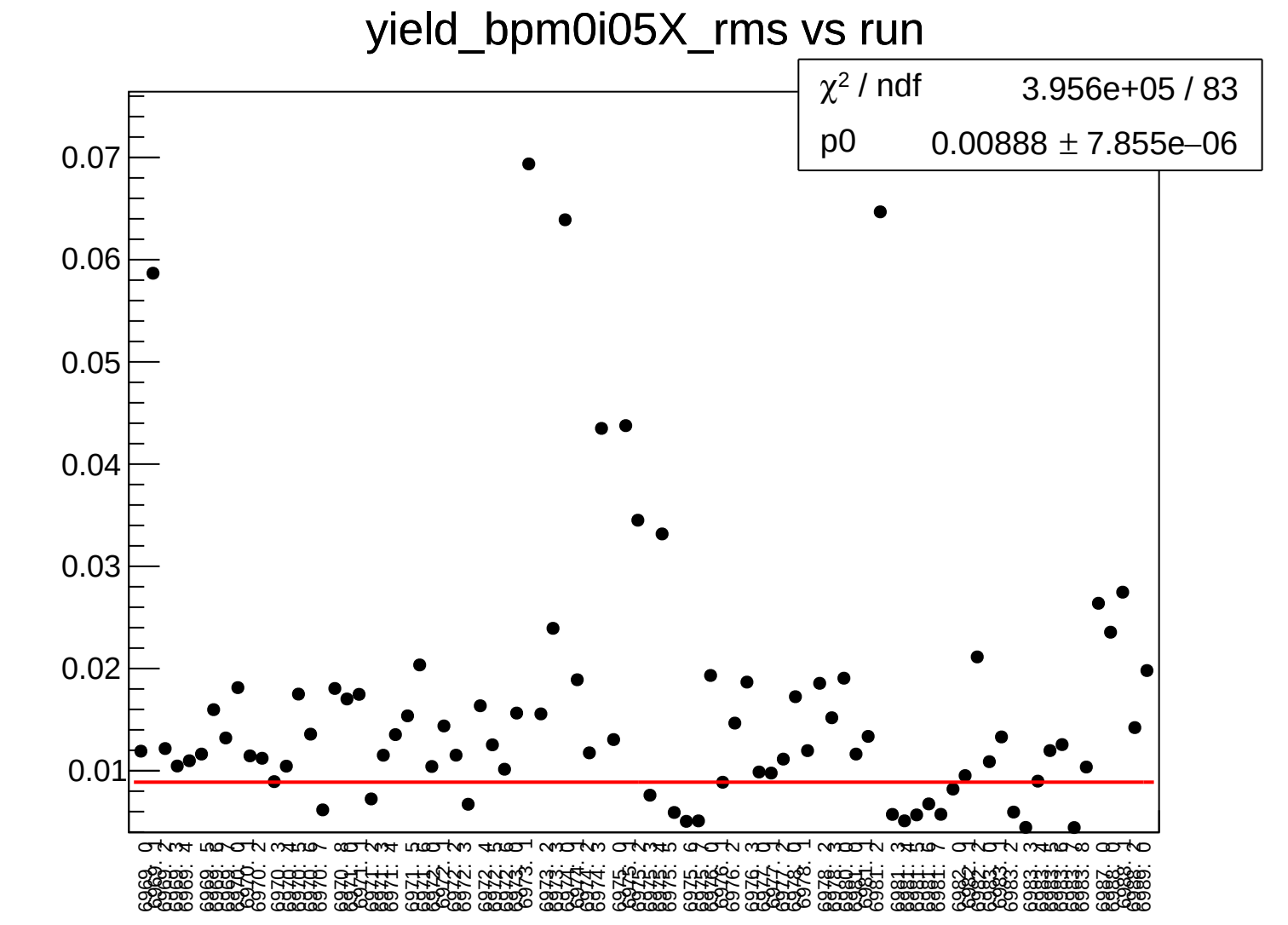

yield_bpm0i02aX_rms vs run
χ² / ndf 1.736e+05 / 83
p0 0.01245 ± 1.016e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

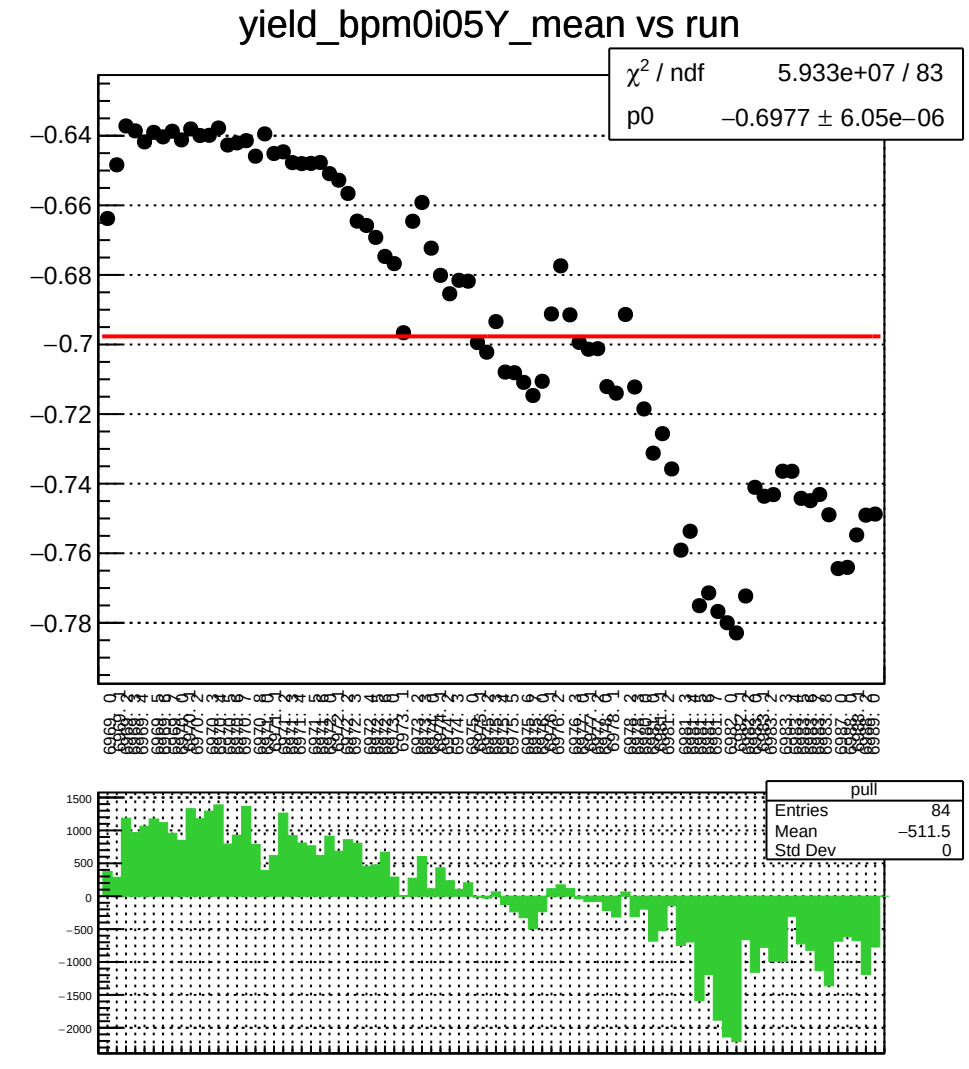

yield_bpm0i02aY_mean vs run
χ² / ndf 1.347e+07 / 83
p0 −1.203 ± 8.895e−06
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
pull
Entries 84
Mean −525.7
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

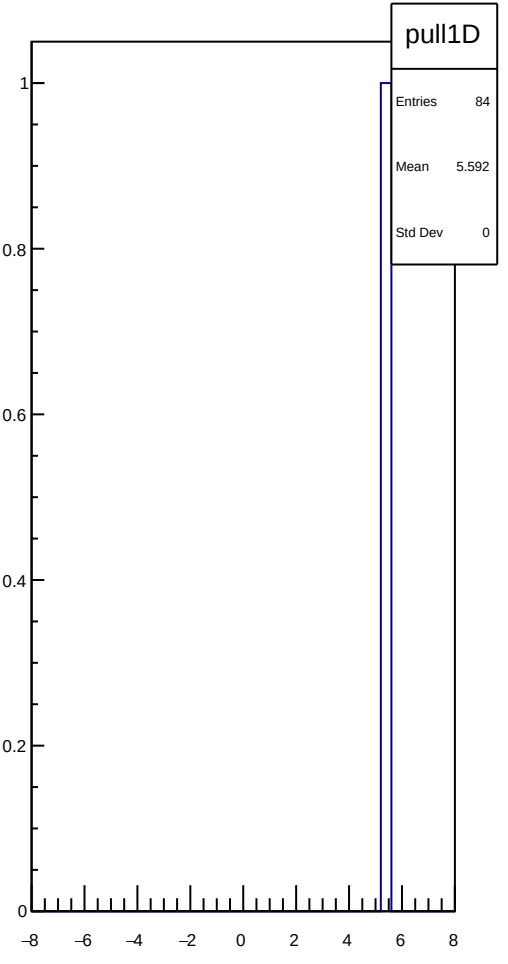

yield_bpm0i02aY_rms vs run
χ² / ndf 9.788e+04 / 83
p0 0.007895 ± 6.29e−06
0.025
0.02
0.015
0.01
0.005

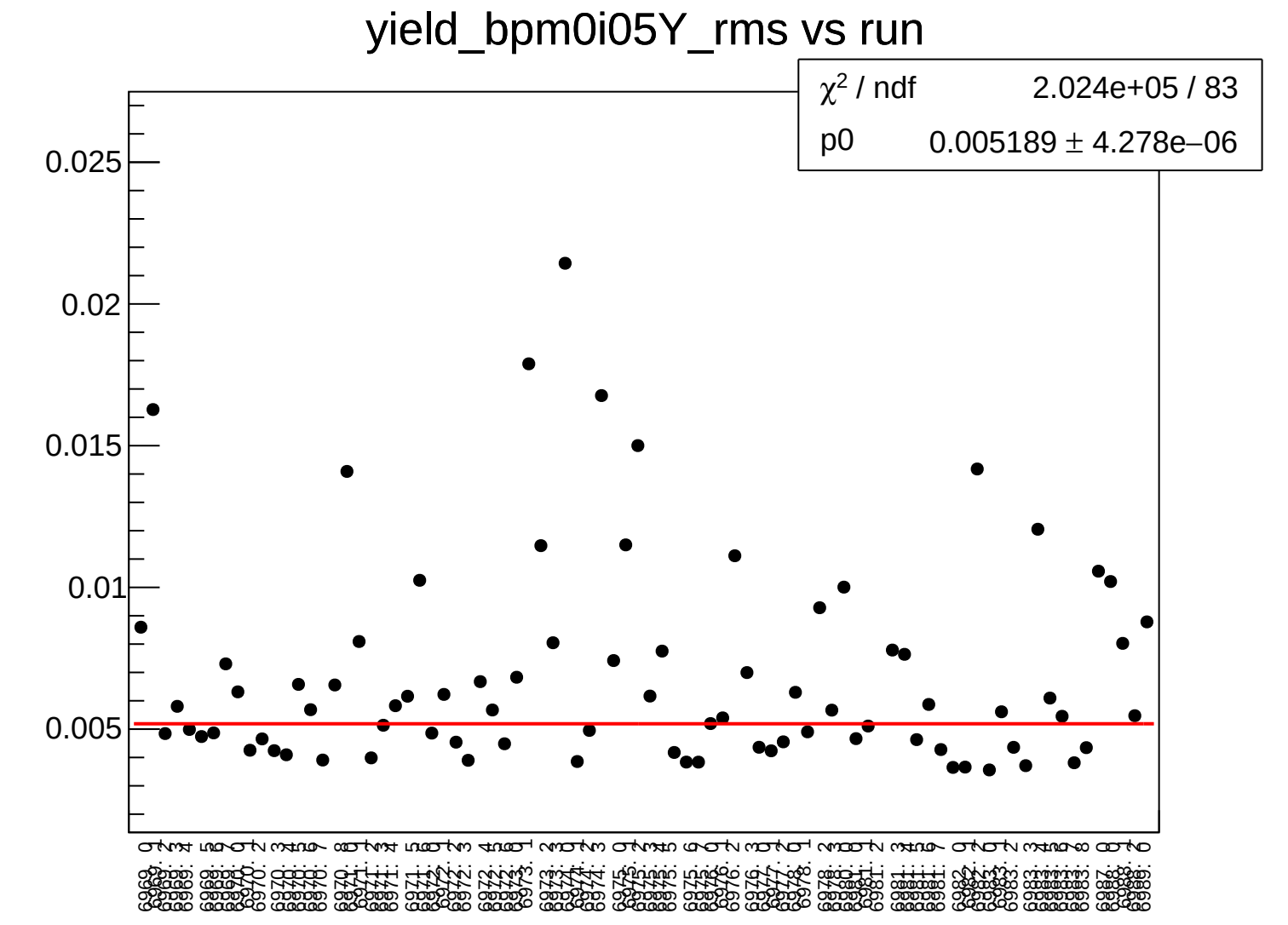

yield_bpm0i05X_mean vs run
χ² / ndf 6.762e+07 / 83
p0 –0.58 ± 1.111e–05
–0.45
–0.5
–0.55
–0.6
–0.65
–0.7
pull
Entries 84
Mean –34.57
Std Dev 0
2000
1500
1000
500
0
–500
–1000
–1500
–2000
–2500

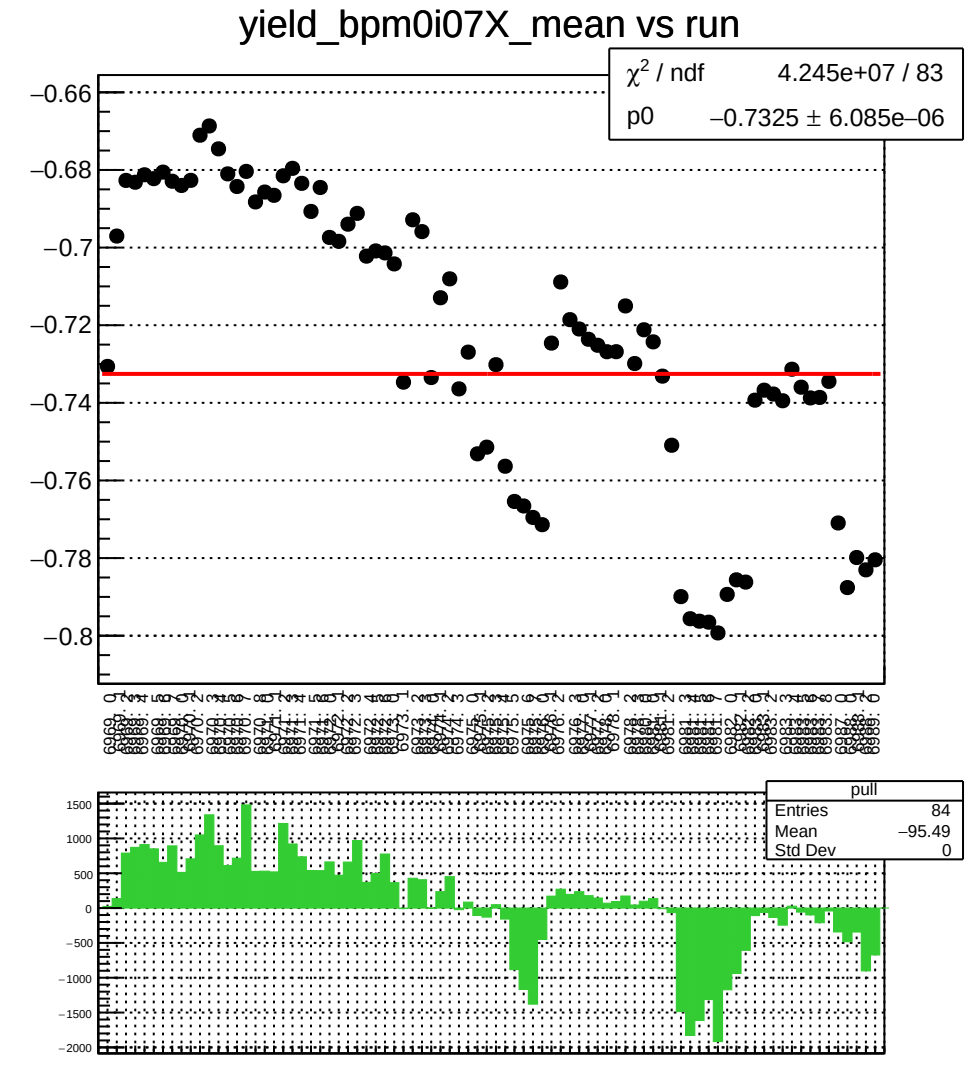

pull1D
Entries 84
Mean 4.688
Std Dev 1.605
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

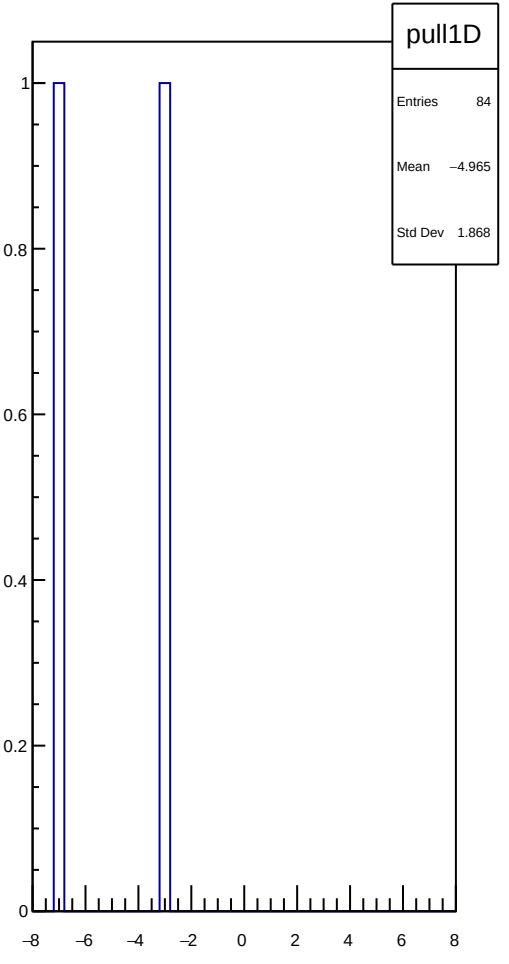

yield_bpm0i05X_rms vs run
χ² / ndf 3.956e+05 / 83
p0 0.00888 ± 7.855e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

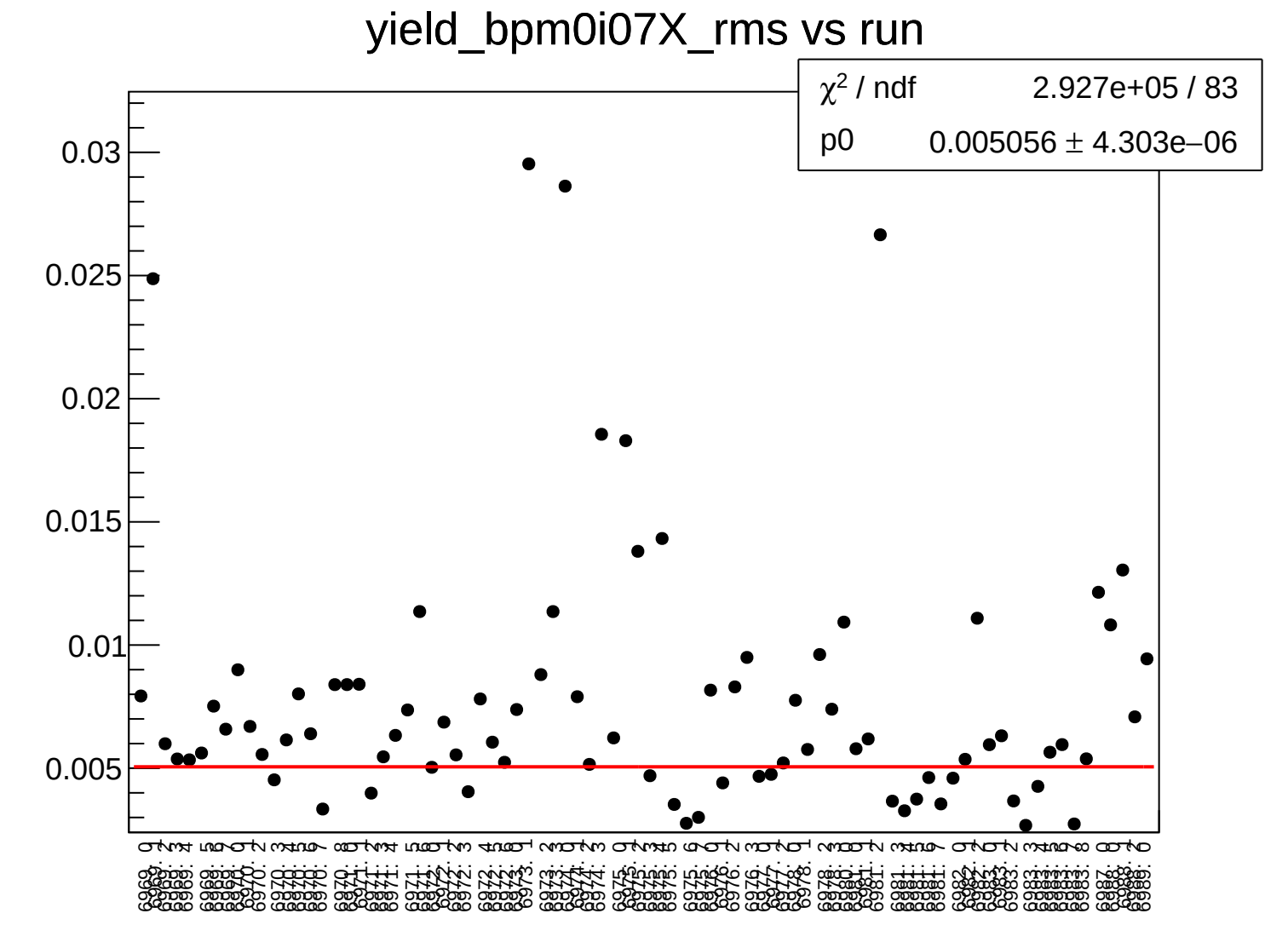

yield_bpm0i05Y_mean vs run
χ² / ndf 5.933e+07 / 83
p0 −0.6977 ± 6.05e−06
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
pull
Entries 84
Mean −511.5
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

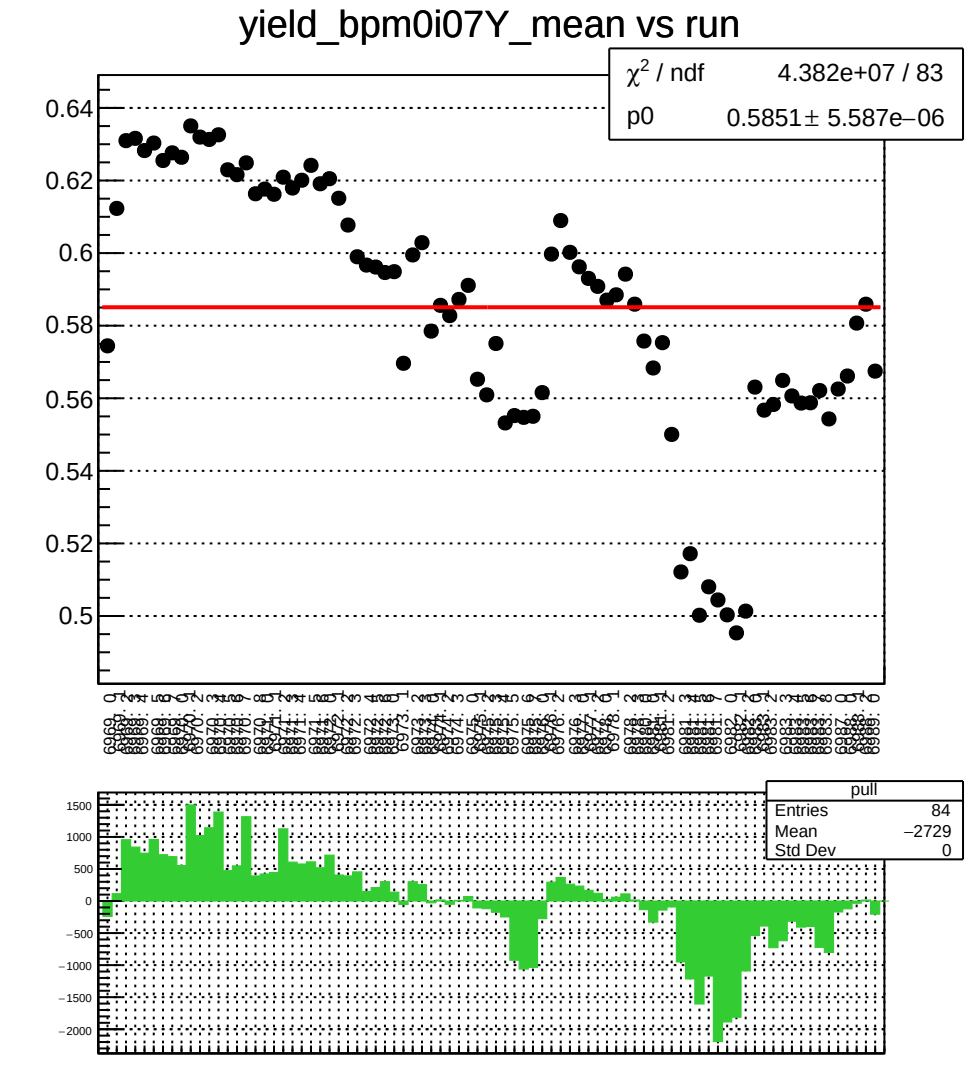

pull1D
Entries 84
Mean 5.592
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

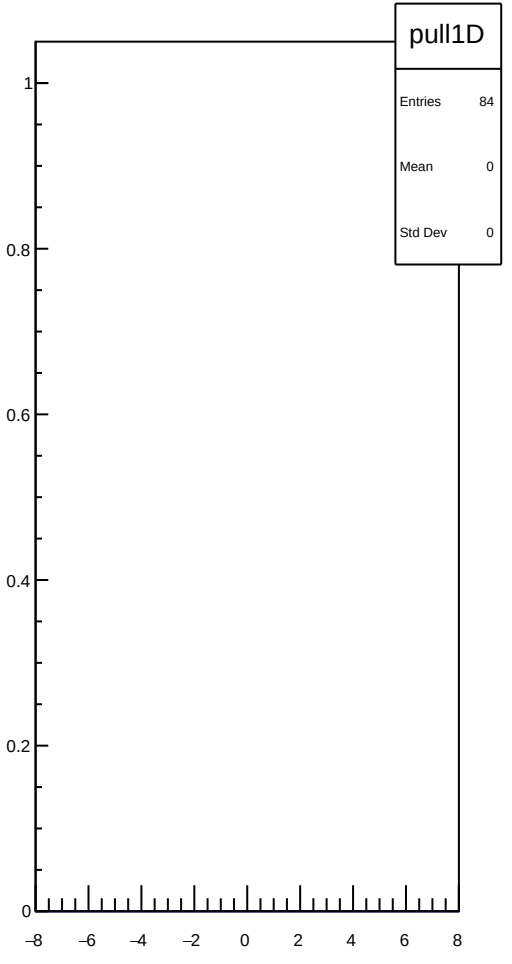

yield_bpm0i05Y_rms vs run
χ² / ndf 2.024e+05 / 83
p0 0.005189 ± 4.278e−06
0.025
0.02
0.015
0.01
0.005

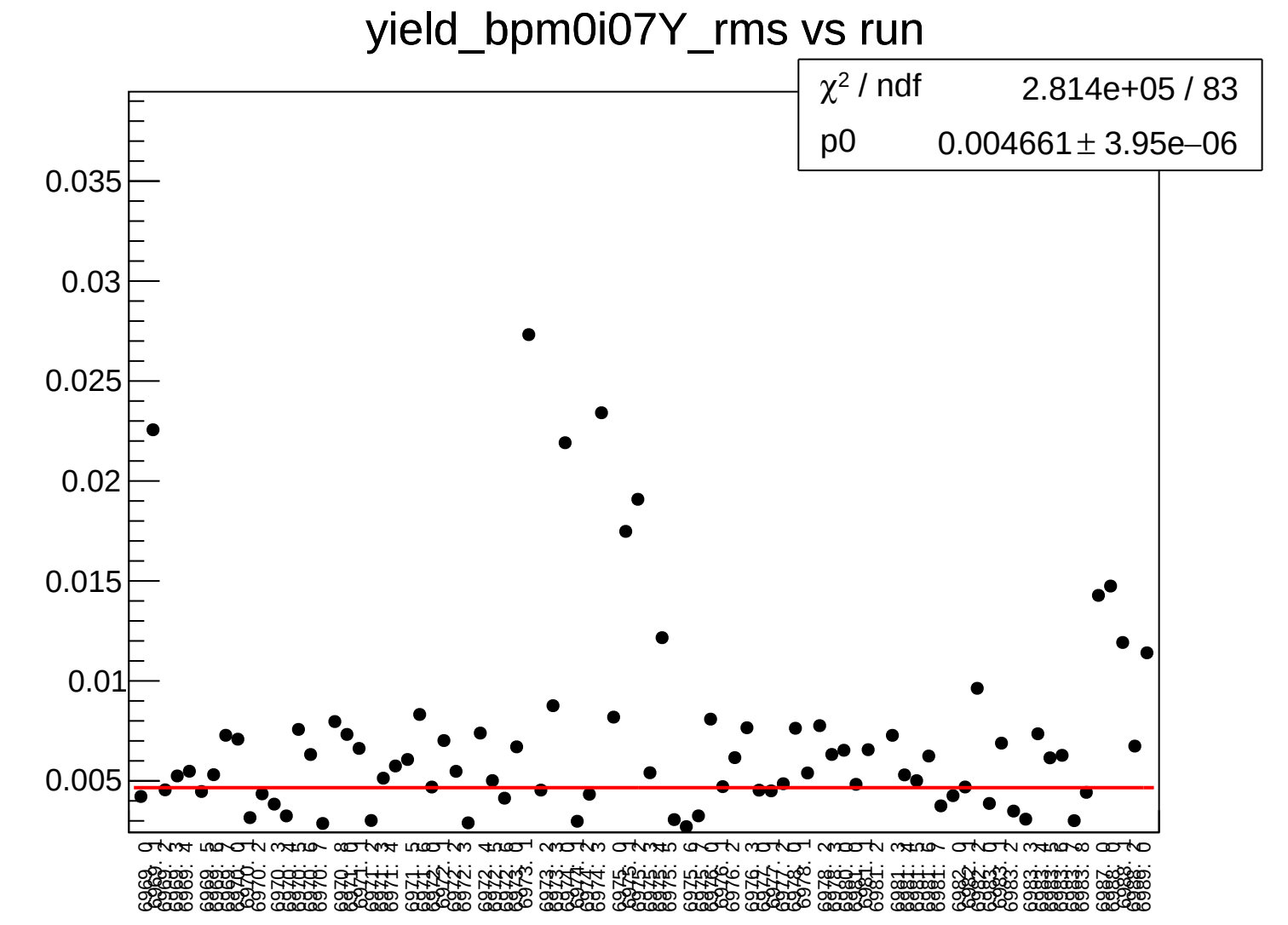

yield_bpm0i07X_mean vs run
χ² / ndf 4.245e+07 / 83
p0 −0.7325 ± 6.085e−06
−0.66
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
pull
Entries 84
Mean −95.49
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

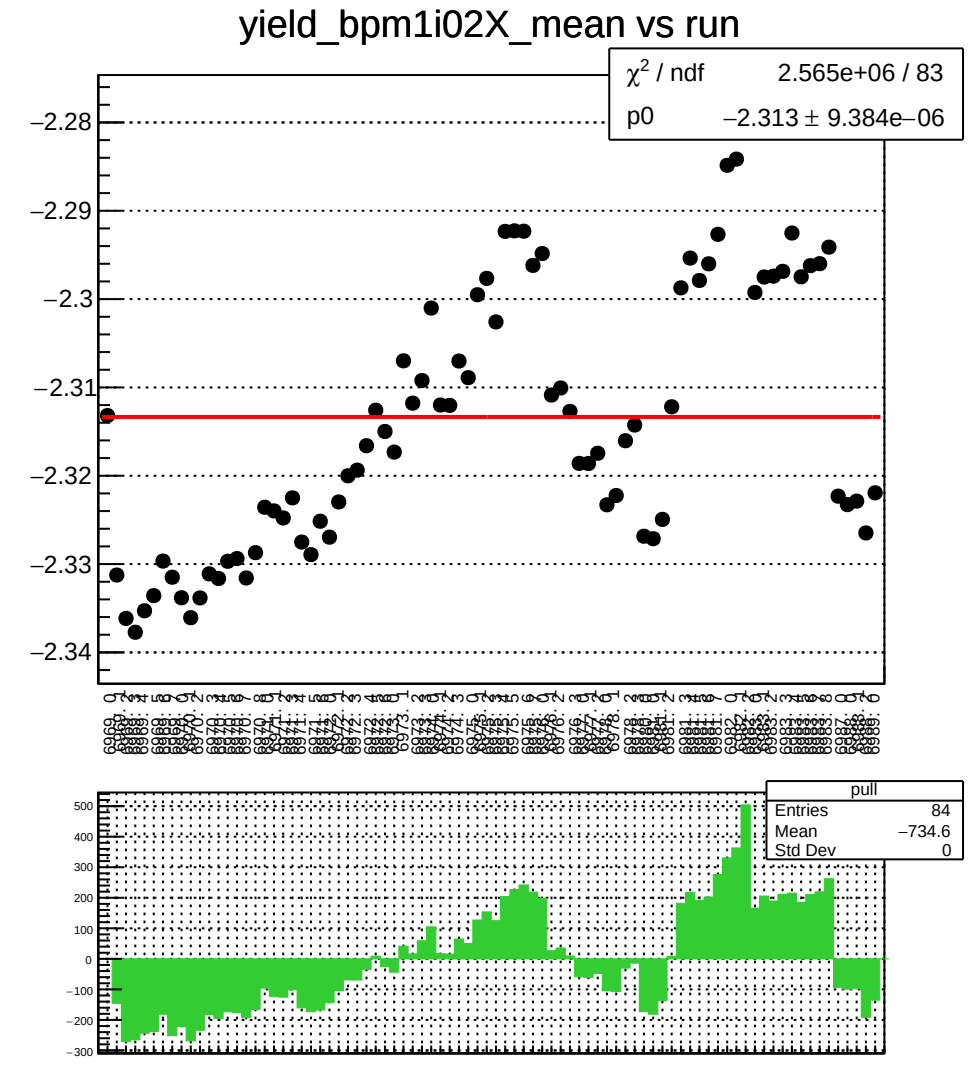

pull1D
Entries 84
Mean −4.965
Std Dev 1.868
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

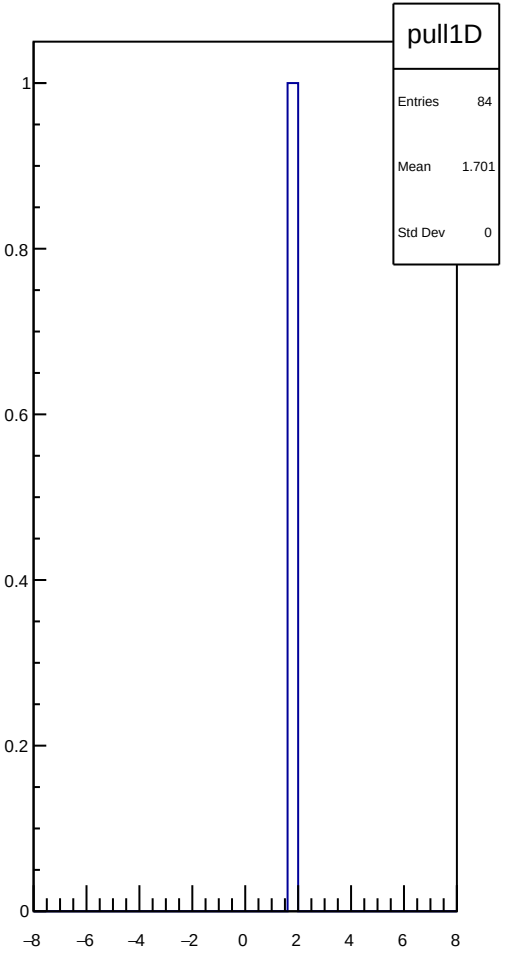

yield_bpm0i07X_rms vs run
χ^2 / ndf 2.927e+05 / 83
p0 0.005056 ± 4.303e−06
0.03
0.025
0.02
0.015
0.01
0.005

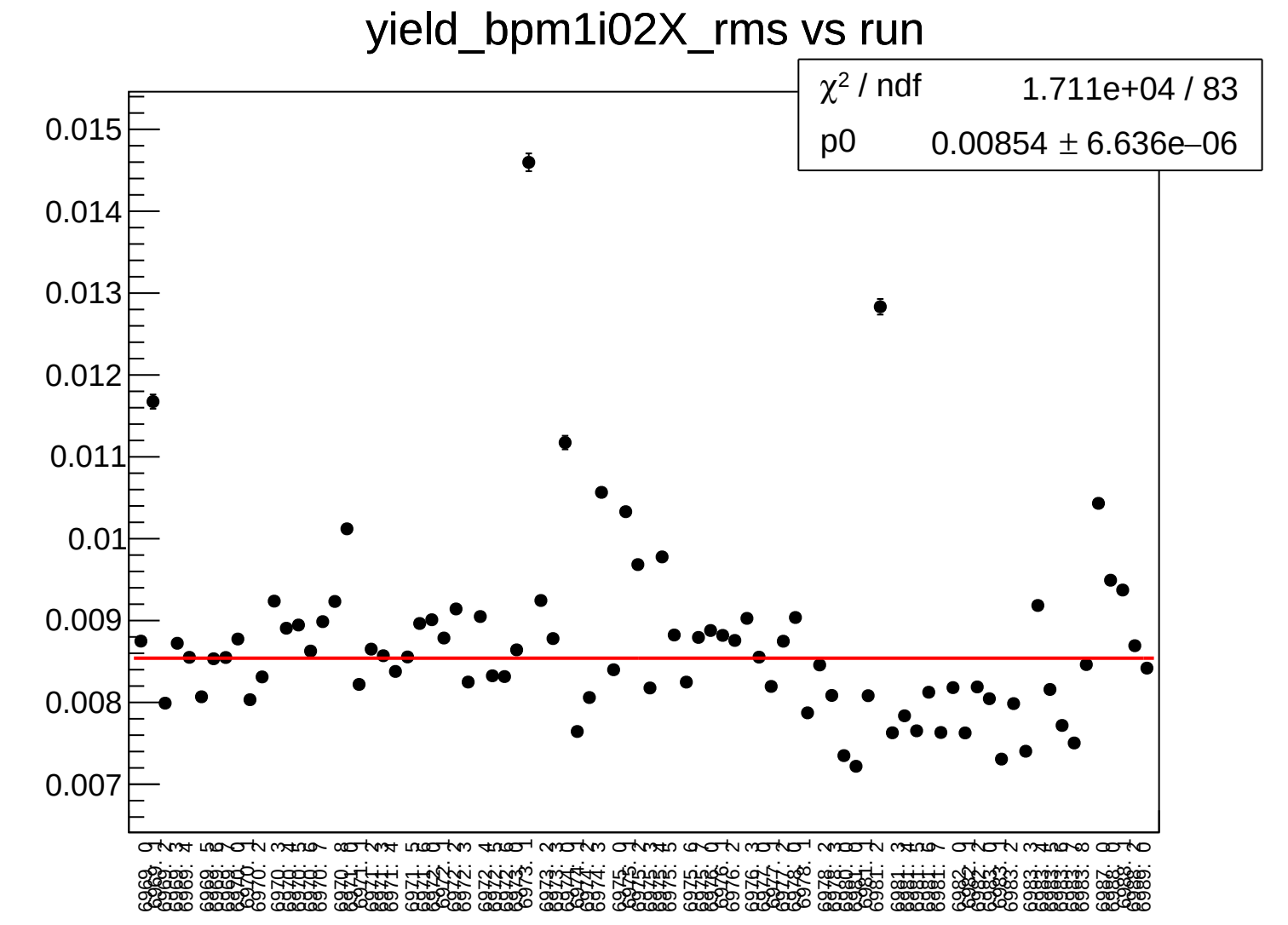

yield_bpm0i07Y_mean vs run
χ² / ndf 4.382e+07 / 83
p0 0.5851 ± 5.587e−06
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
pull
Entries 84
Mean −2729
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

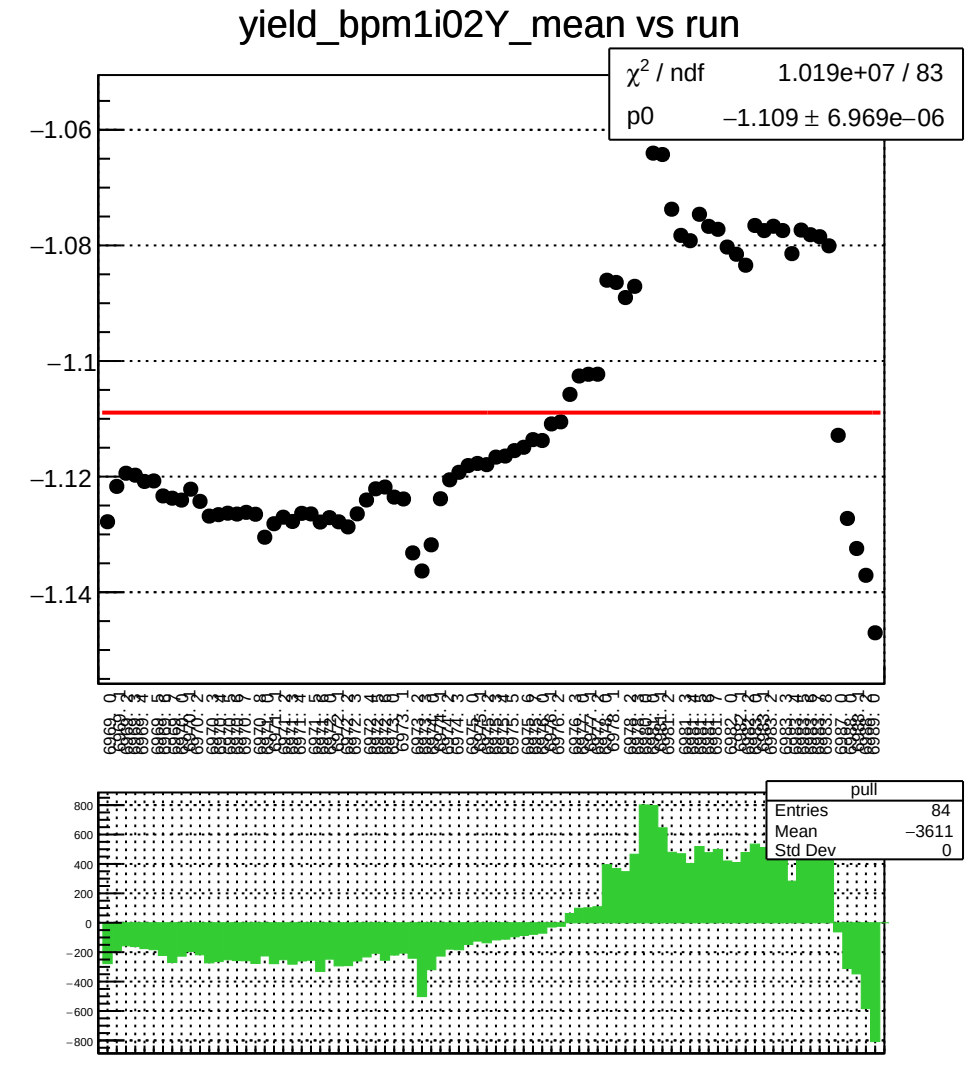

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

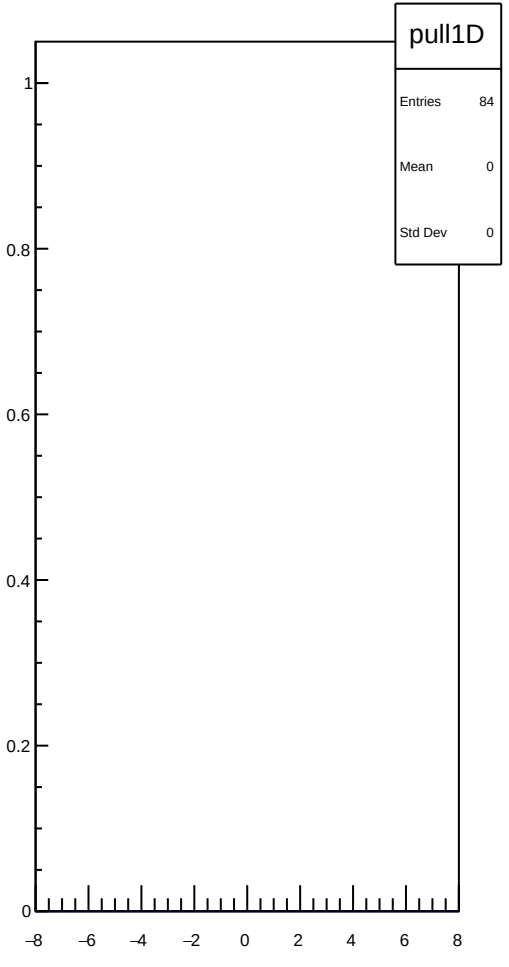

yield_bpm0i07Y_rms vs run
χ² / ndf 2.814e+05 / 83
p0 0.004661 ± 3.95e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

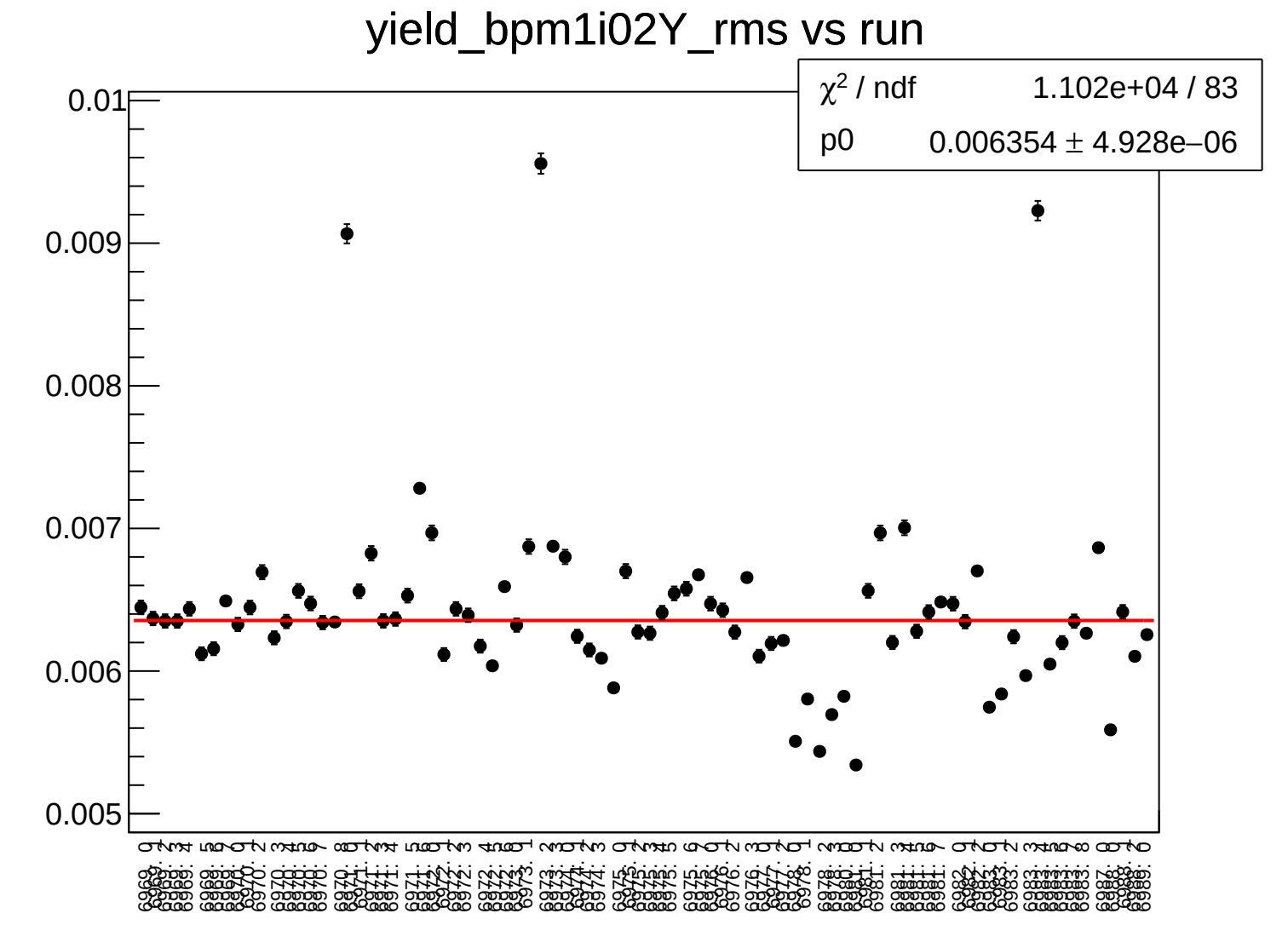

yield_bpm1i02X_mean vs run
χ² / ndf 2.565e+06 / 83
p0 −2.313 ± 9.384e−06
−2.28
−2.29
−2.3
−2.31
−2.32
−2.33
−2.34
pull
Entries 84
Mean −734.6
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

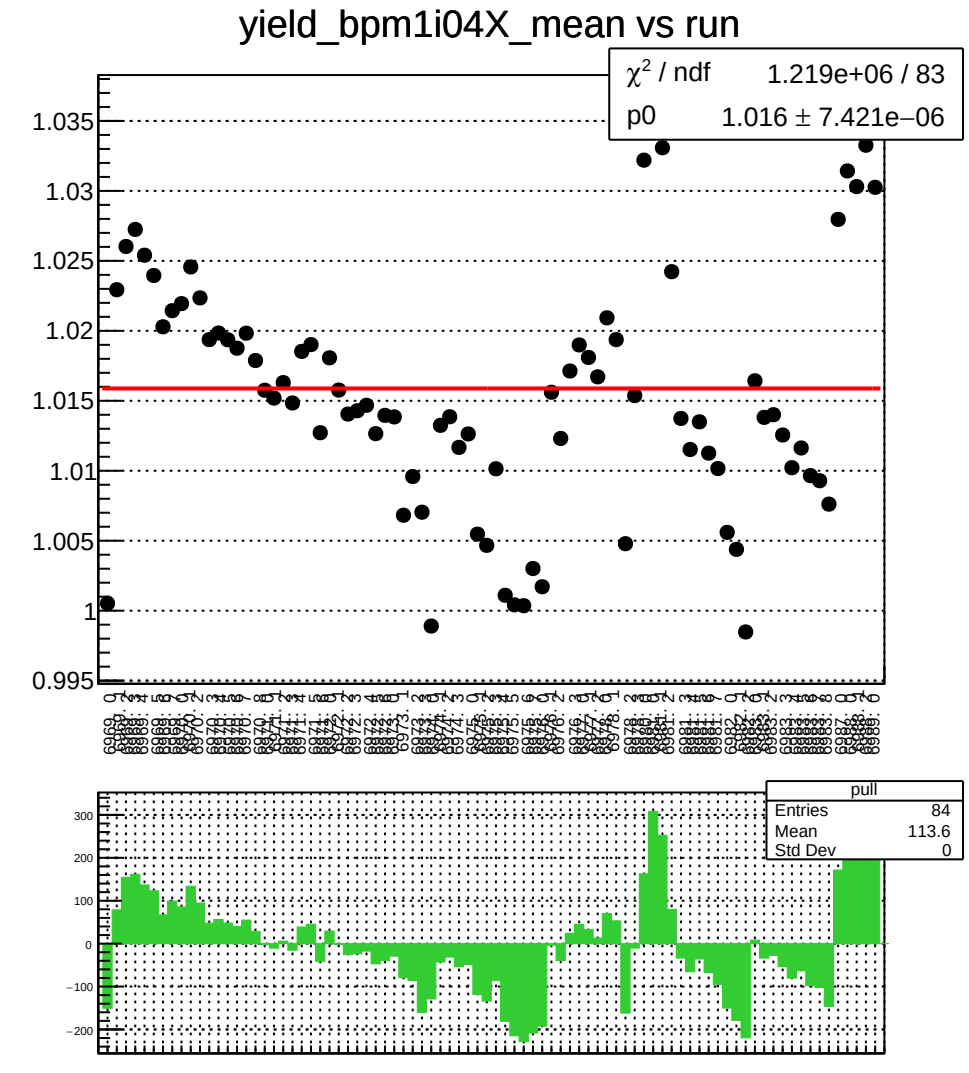

pull1D
Entries 84
Mean 1.701
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

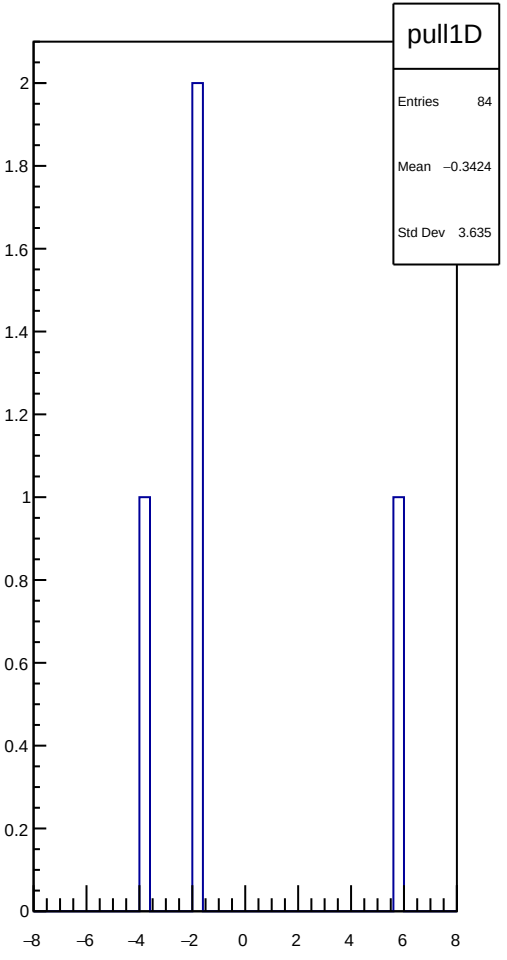

yield_bpm1i02X_rms vs run
χ² / ndf 1.711e+04 / 83
p0 0.00854 ± 6.636e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

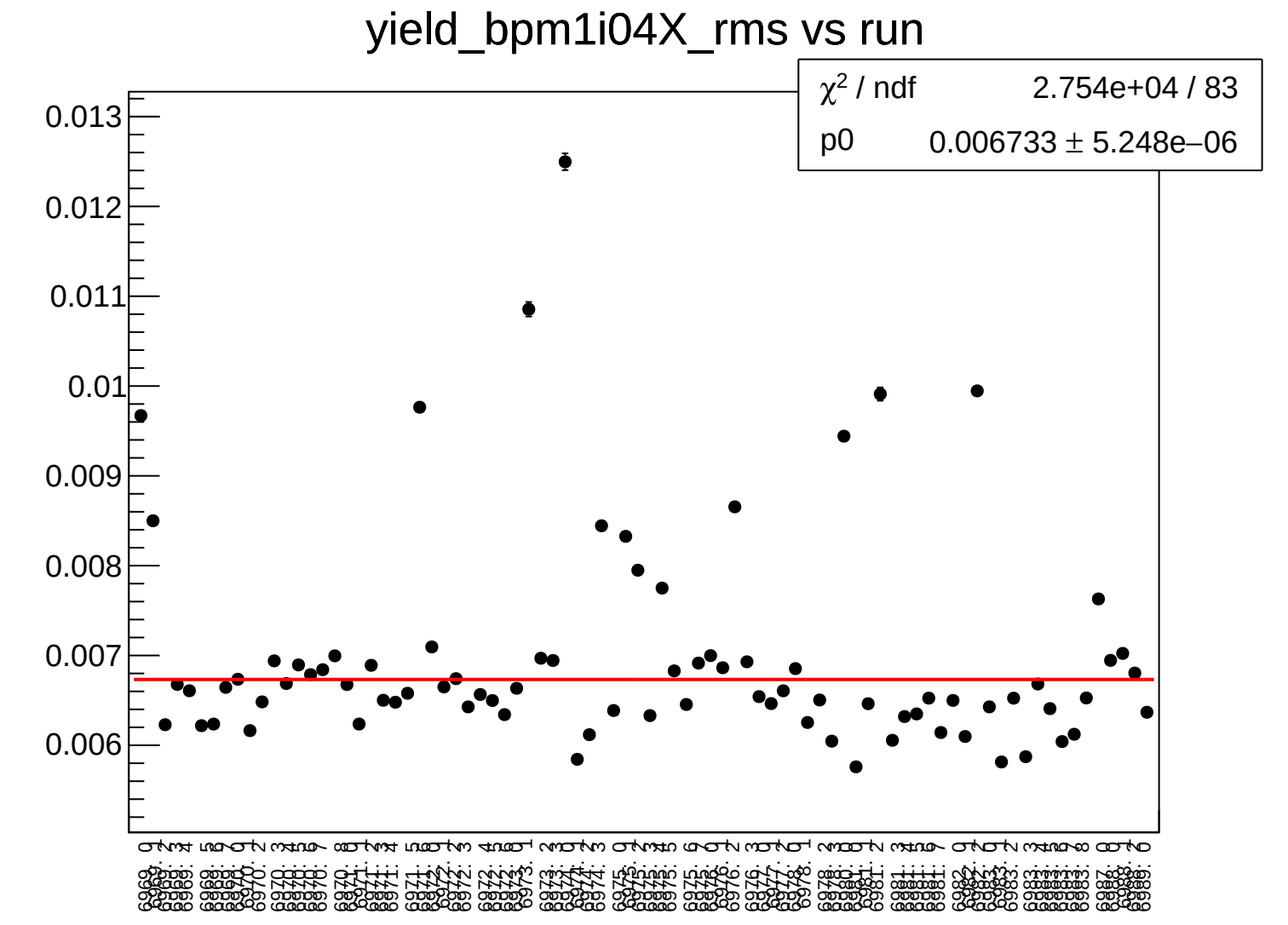

yield_bpm1i02Y_mean vs run
χ² / ndf 1.019e+07 / 83
p0 −1.109 ± 6.969e−06
−1.06
−1.08
−1.1
−1.12
−1.14
pull
Entries 84
Mean −3611
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

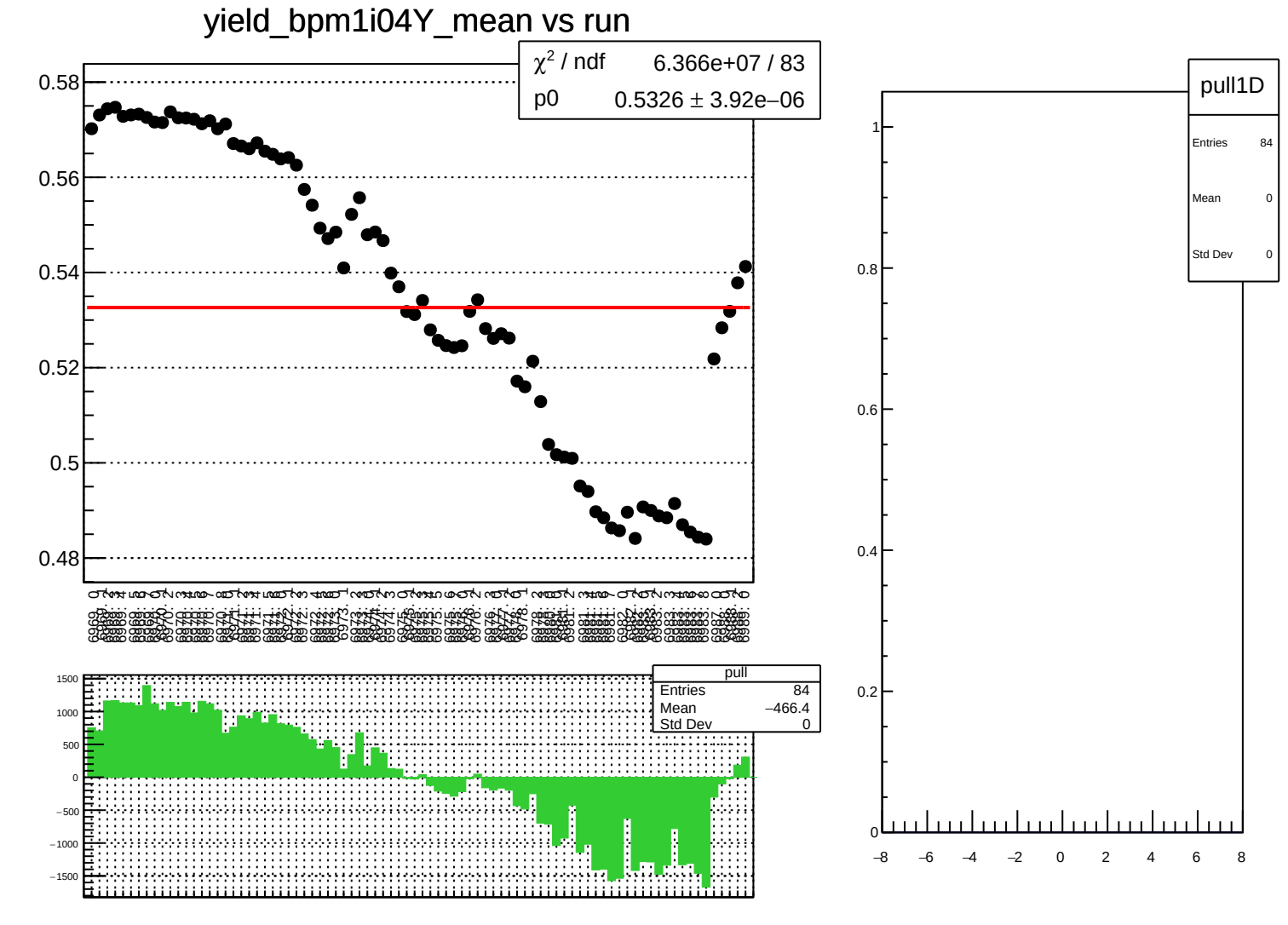

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

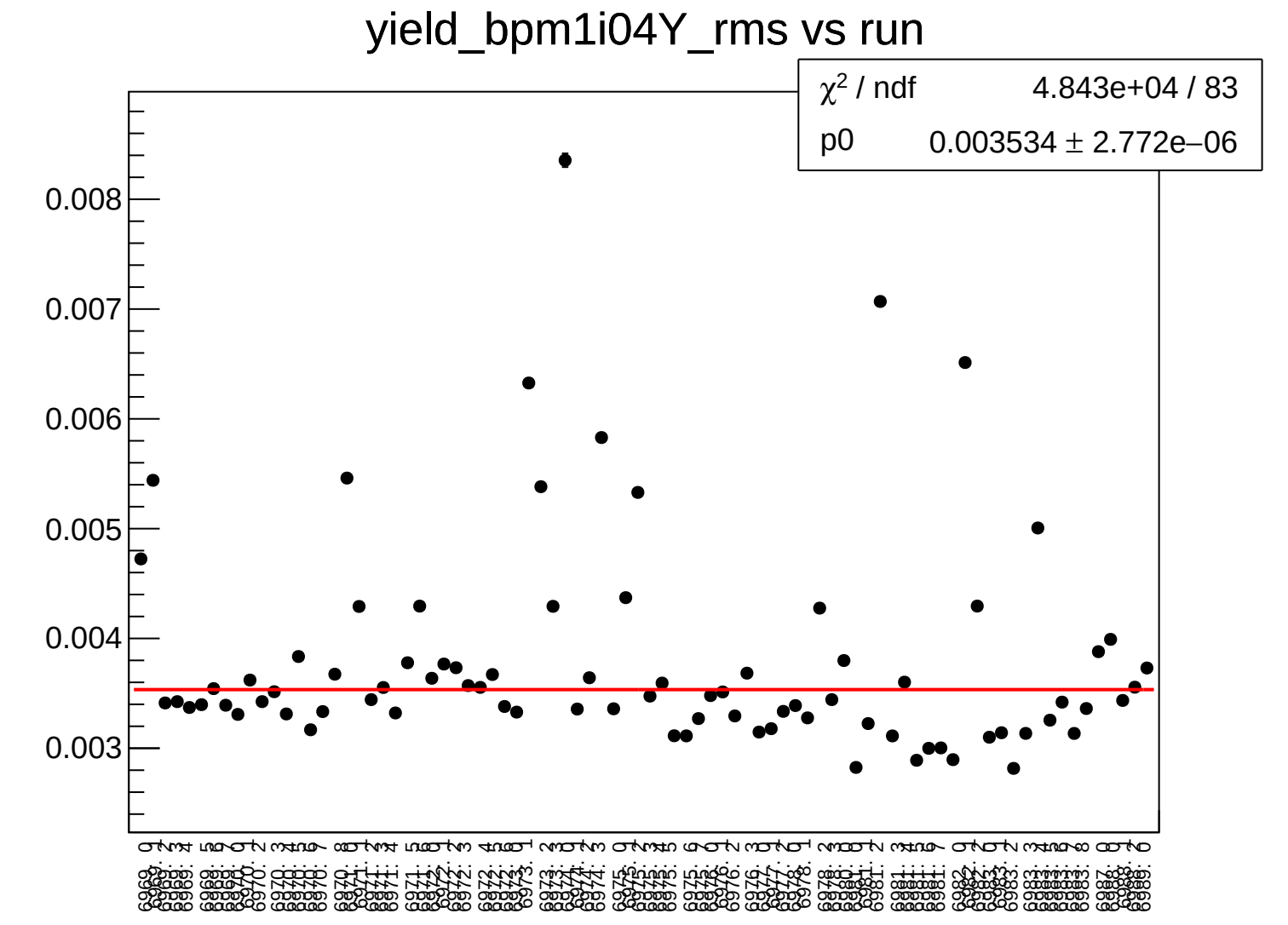

yield_bpm1i02Y_rms vs run
χ² / ndf 1.102e+04 / 83
p0 0.006354 ± 4.928e−06
0.01
0.009
0.008
0.007
0.006
0.005

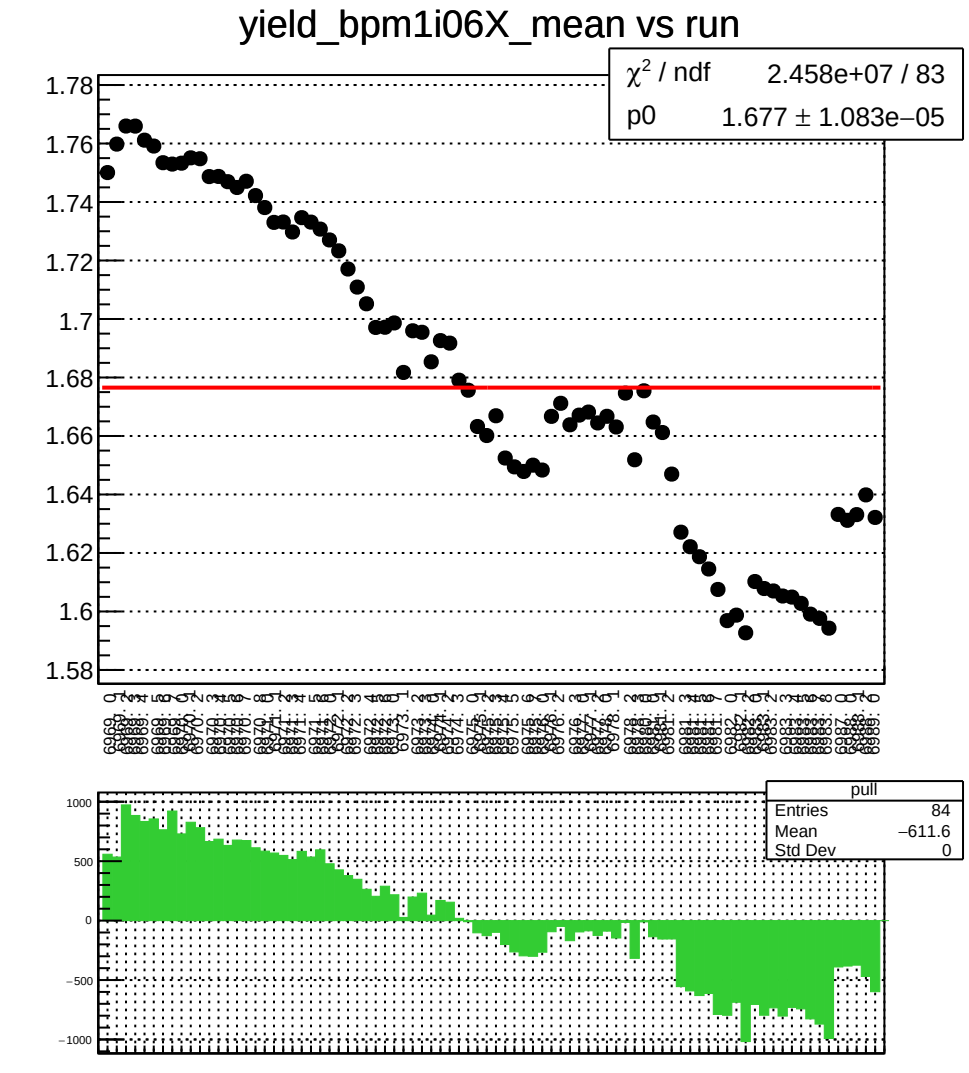

yield_bpm1i04X_mean vs run
χ² / ndf 1.219e+06 / 83
p0 1.016 ± 7.421e−06
pull
Entries 84
Mean 113.6
Std Dev 0

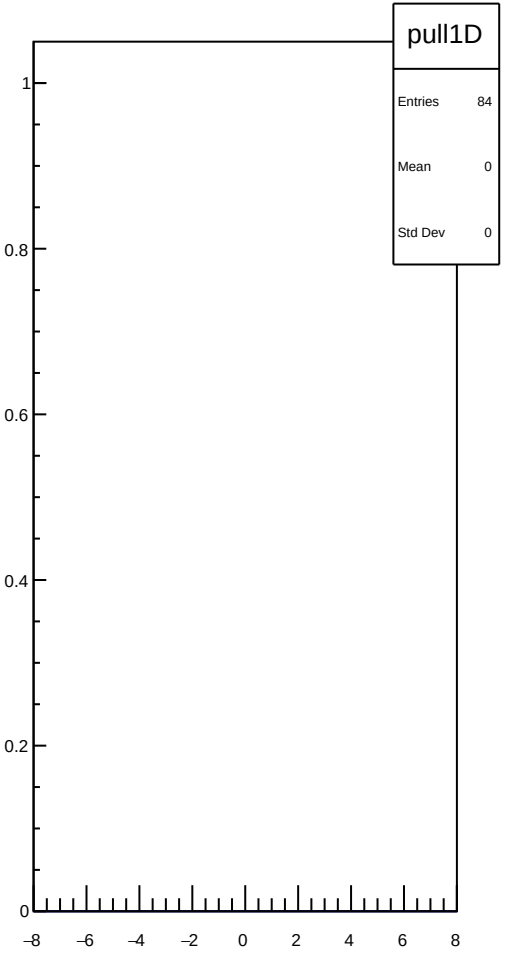

pull1D
Entries 84
Mean −0.3424
Std Dev 3.635

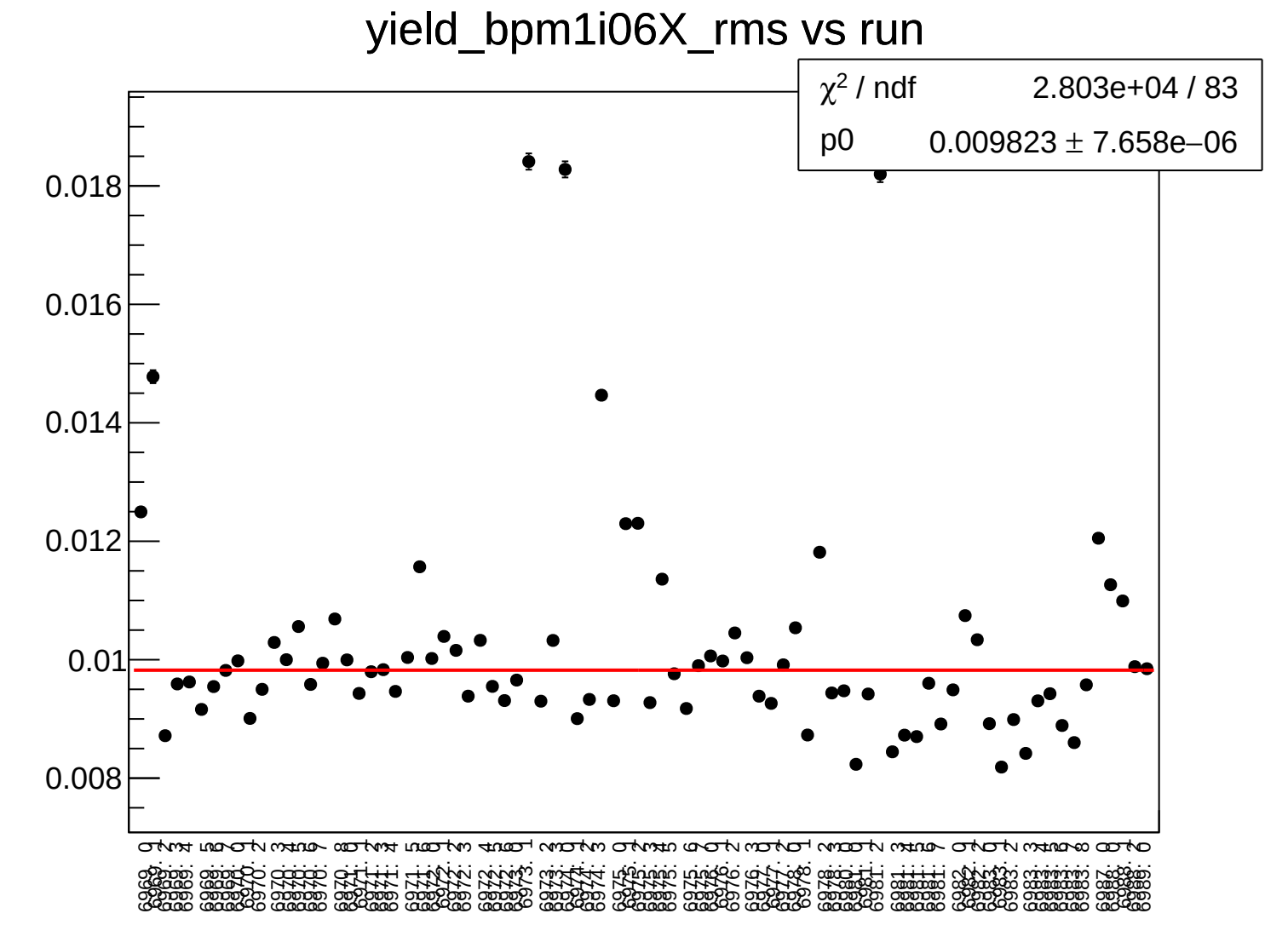

yield_bpm1i04X_rms vs run
χ² / ndf 2.754e+04 / 83
p0 0.006733 ± 5.248e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

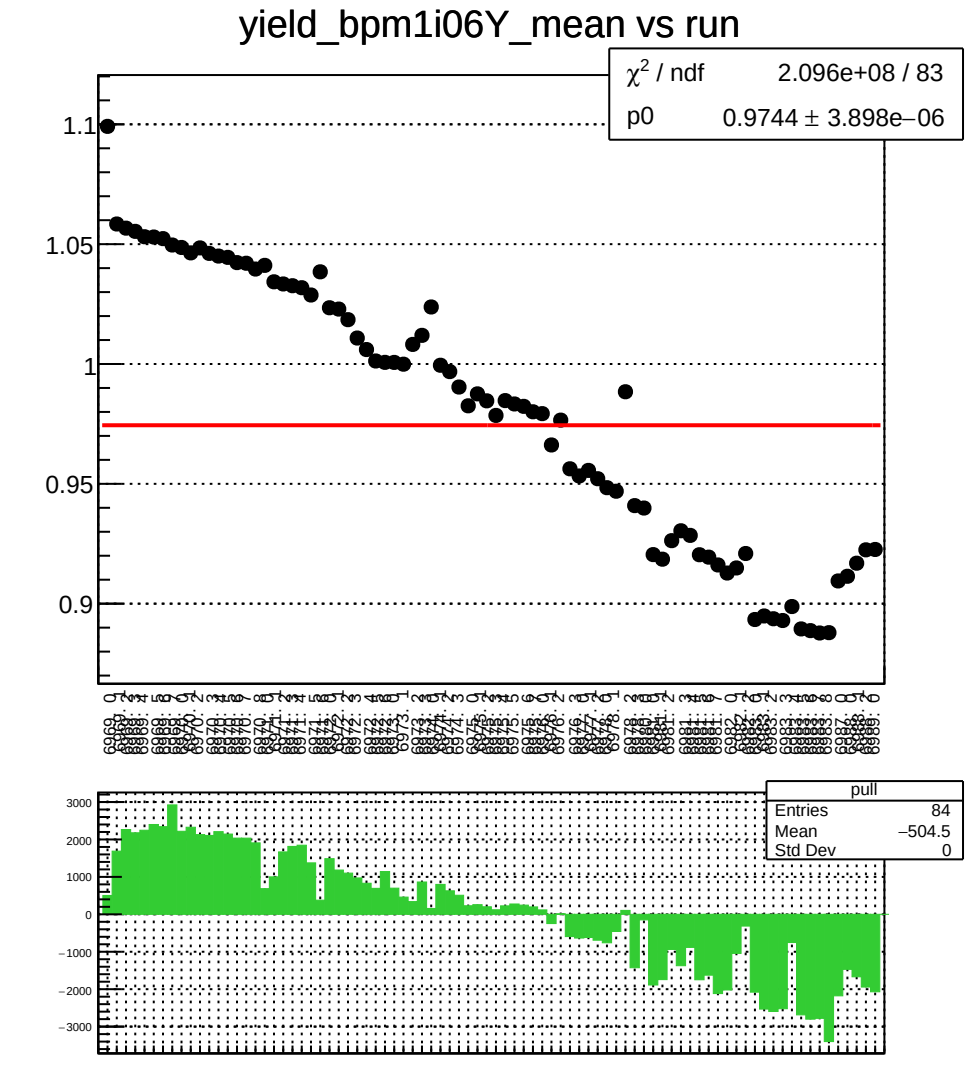

yield_bpm1i04Y_mean vs run
χ² / ndf 6.366e+07 / 83
p0 0.5326 ± 3.92e−06
0.58
0.56
0.54
0.52
0.5
0.48
pull
Entries 84
Mean −466.4
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

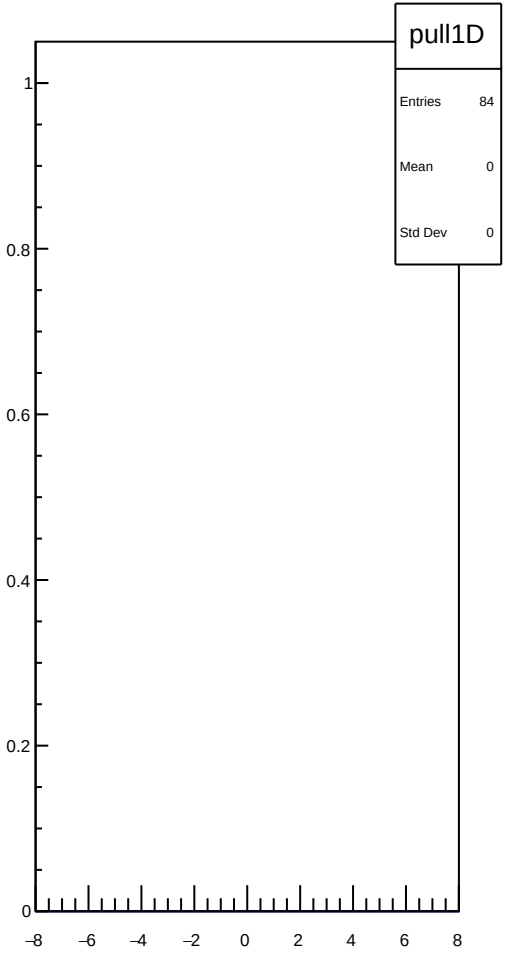

yield_bpm1i04Y_rms vs run
χ² / ndf 4.843e+04 / 83
p0 0.003534 ± 2.772e−06
0.008
0.007
0.006
0.005
0.004
0.003

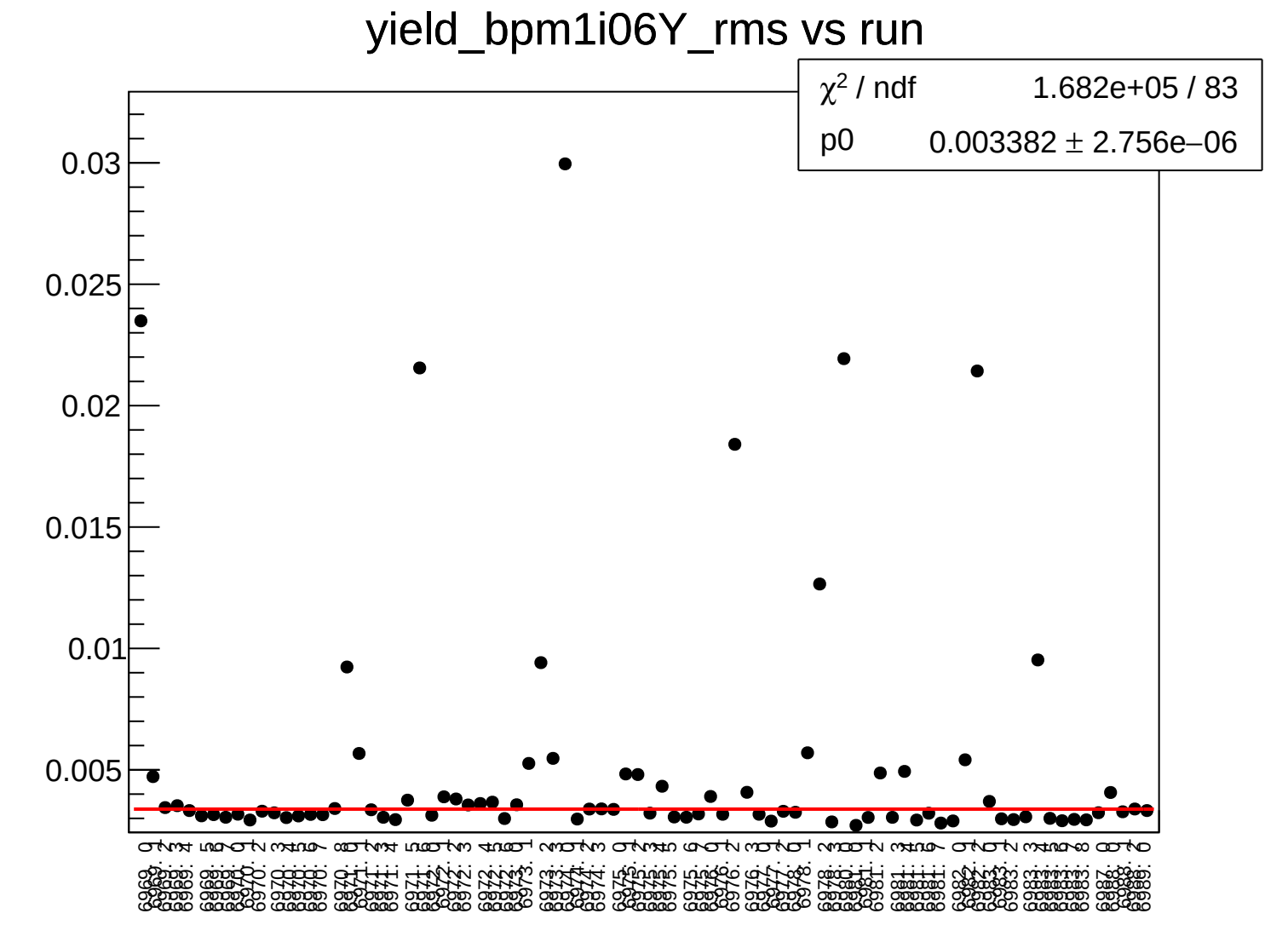

yield_bpm1i06X_mean vs run
χ² / ndf 2.458e+07 / 83
p0 1.677 ± 1.083e−05
1.78
1.76
1.74
1.72
1.7
1.68
1.66
1.64
1.62
1.6
1.58
pull
Entries 84
Mean −611.6
Std Dev 0
1000
500
0
−500
−1000

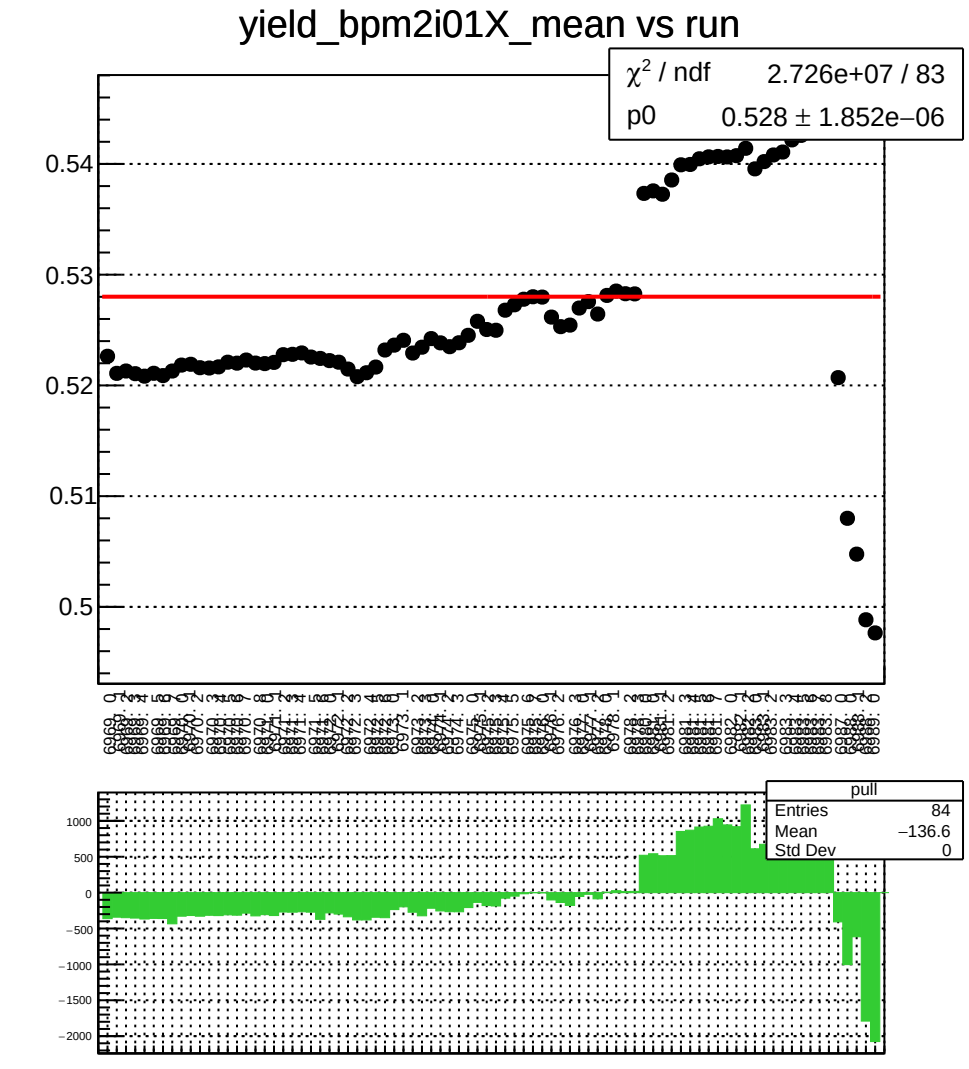

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

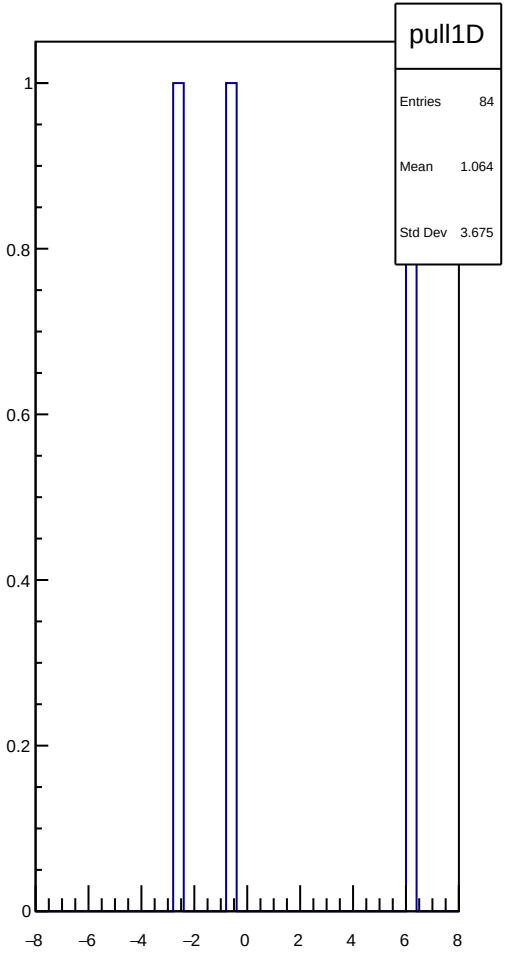

yield_bpm1i06X_rms vs run
χ² / ndf 2.803e+04 / 83
p0 0.009823 ± 7.658e−06
0.018
0.016
0.014
0.012
0.01
0.008

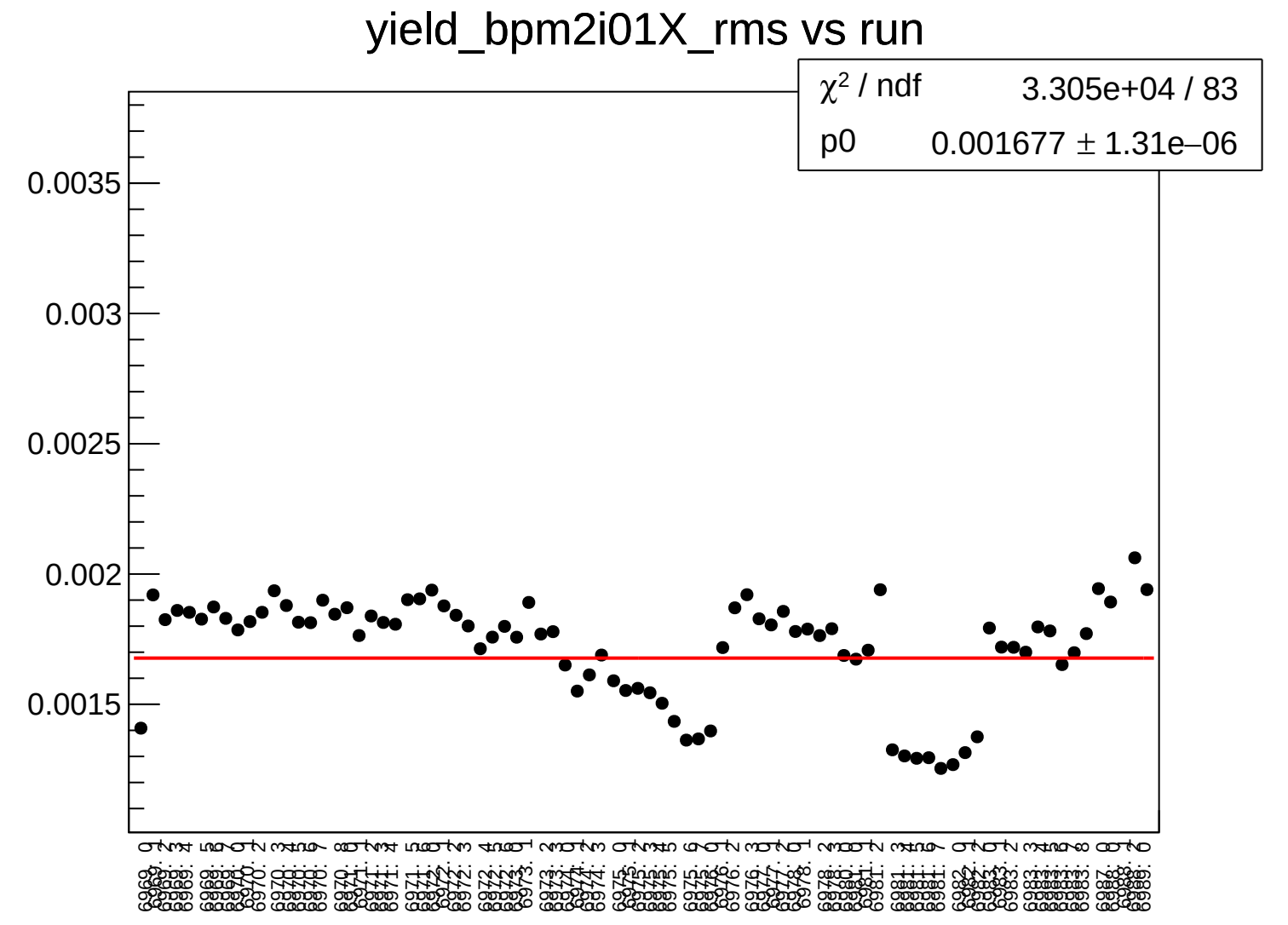

yield_bpm1i06Y_mean vs run
χ² / ndf 2.096e+08 / 83
p0 0.9744 ± 3.898e−06
1.1
1.05
1
0.95
0.9
pull
Entries 84
Mean −504.5
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000

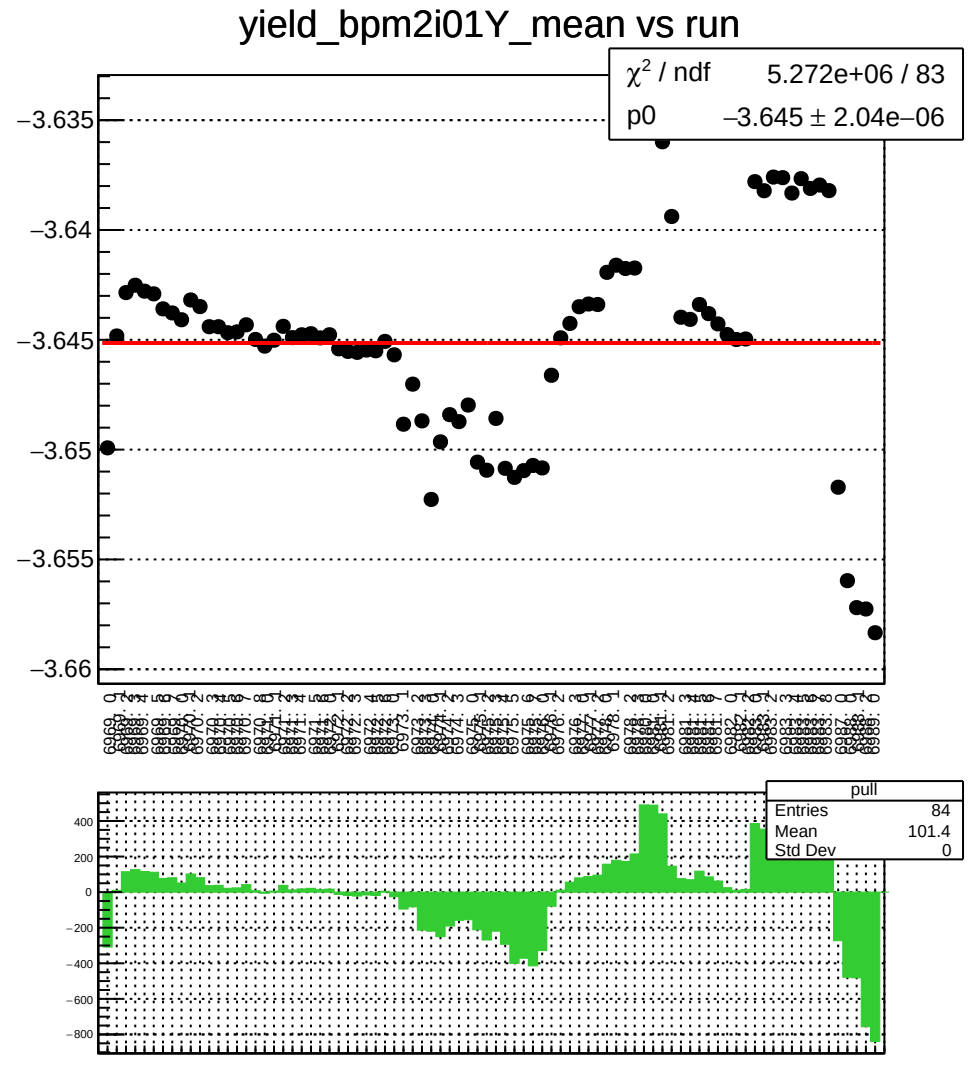

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

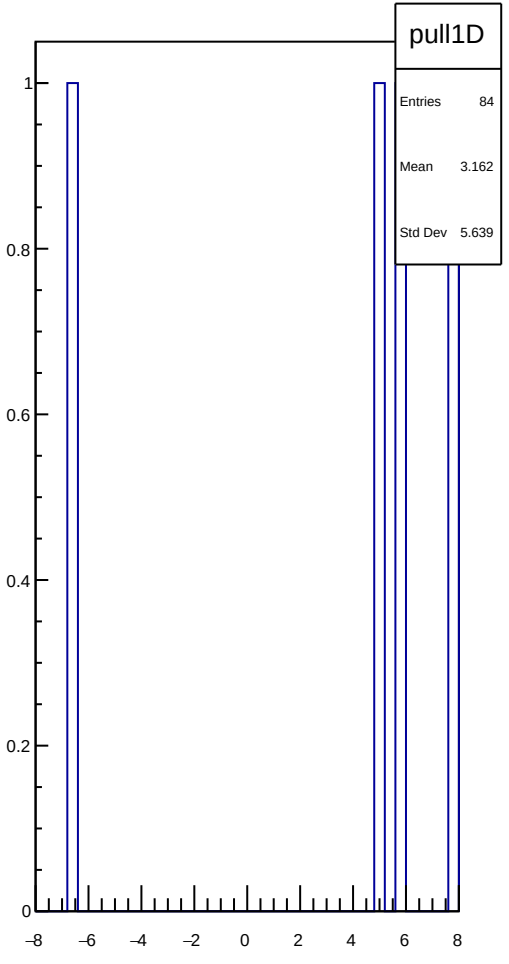

yield_bpm1i06Y_rms vs run
χ² / ndf 1.682e+05 / 83
p0 0.003382 ± 2.756e−06
0.03
0.025
0.02
0.015
0.01
0.005

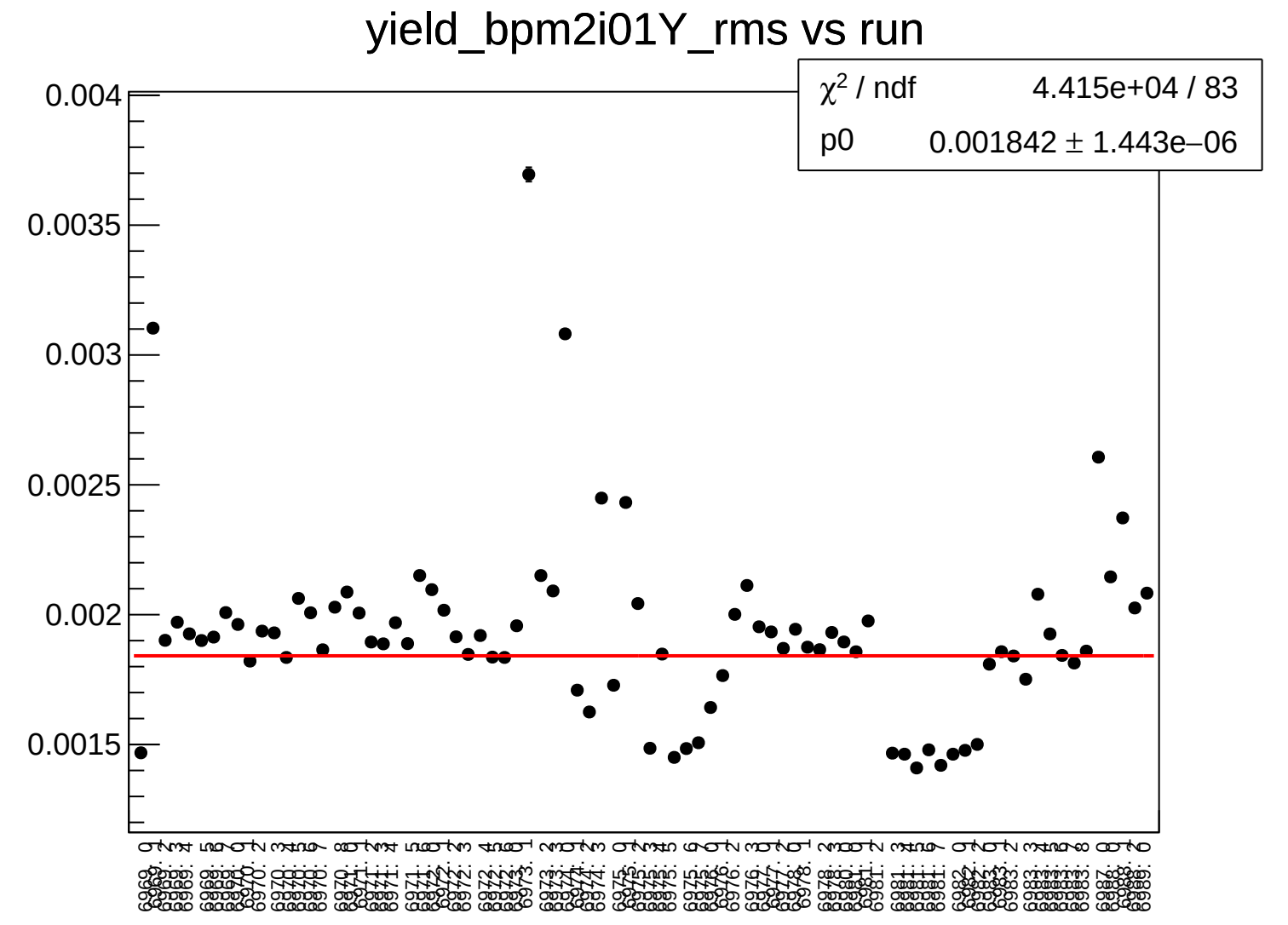

yield_bpm2i01X_mean vs run
χ² / ndf 2.726e+07 / 83
p0 0.528 ± 1.852e−06
0.54
0.53
0.52
0.51
0.5
pull
Entries 84
Mean −136.6
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

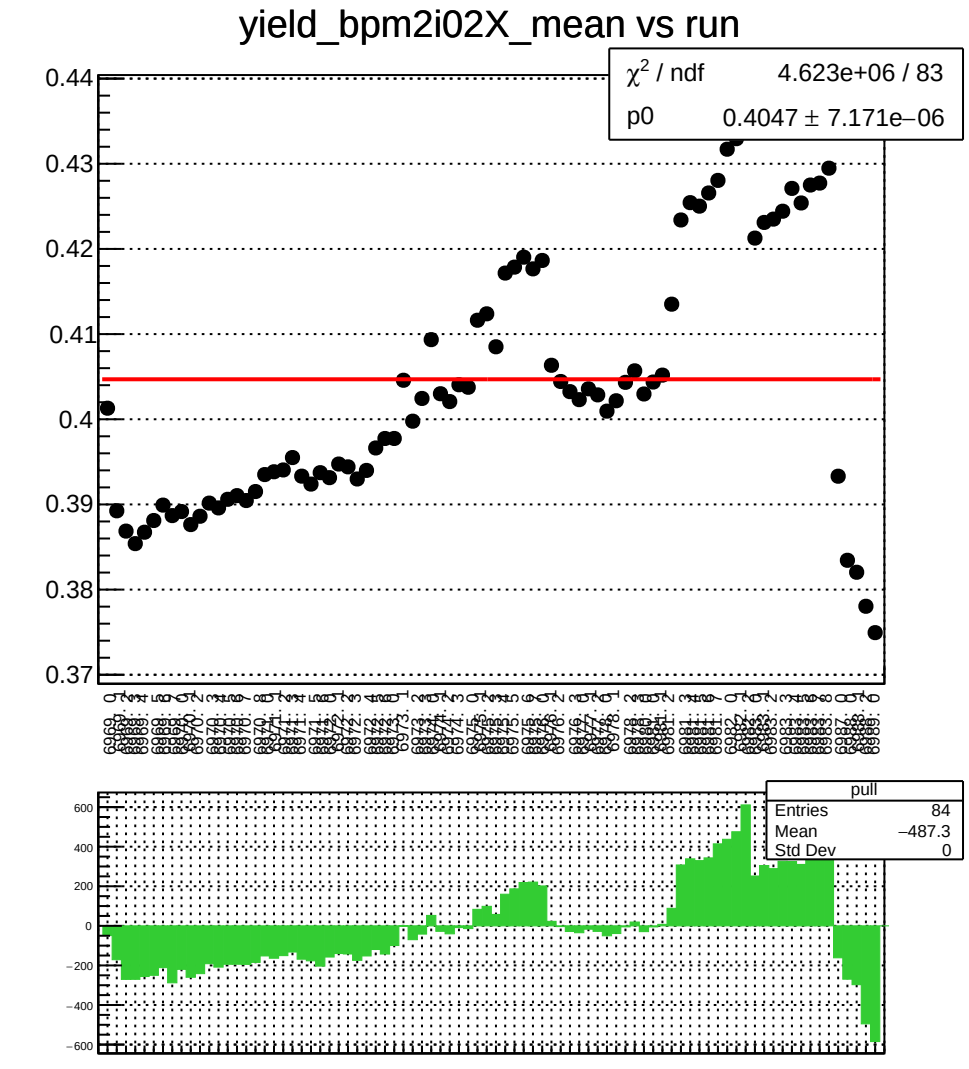

pull1D
Entries 84
Mean 1.064
Std Dev 3.675
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

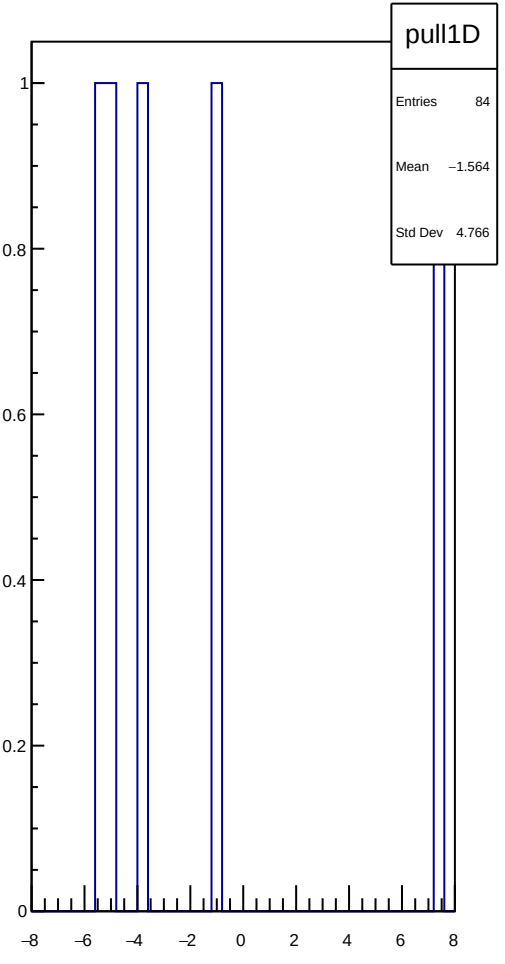

yield_bpm2i01X_rms vs run
χ² / ndf 3.305e+04 / 83
p0 0.001677 ± 1.31e–06
0.0035
0.003
0.0025
0.002
0.0015

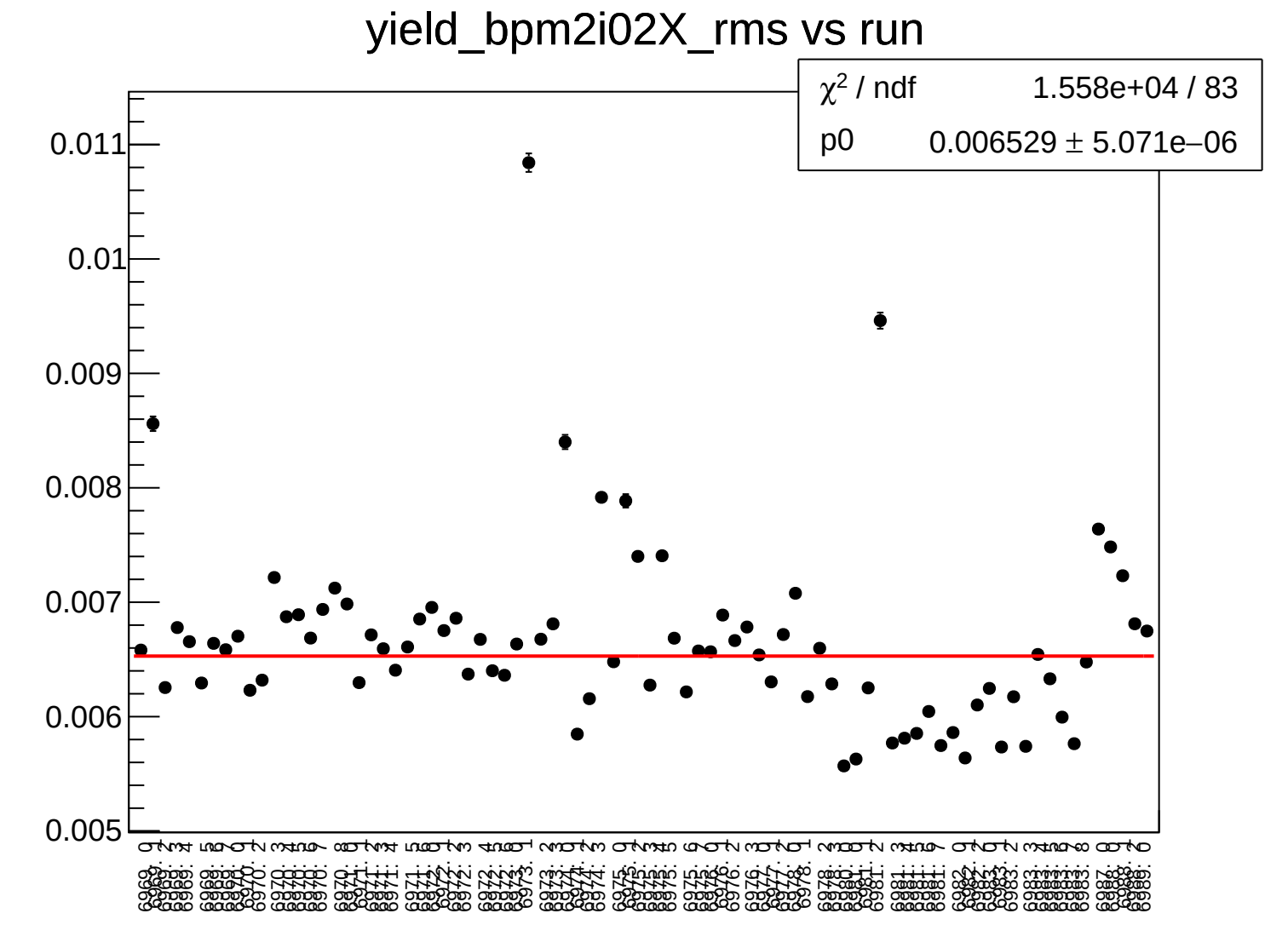

yield_bpm2i01Y_mean vs run
χ² / ndf 5.272e+06 / 83
p0 −3.645 ± 2.04e−06
−3.635
−3.64
−3.645
−3.65
−3.655
−3.66
pull
Entries 84
Mean 101.4
Std Dev 0
400
200
0
−200
−400
−600
−800

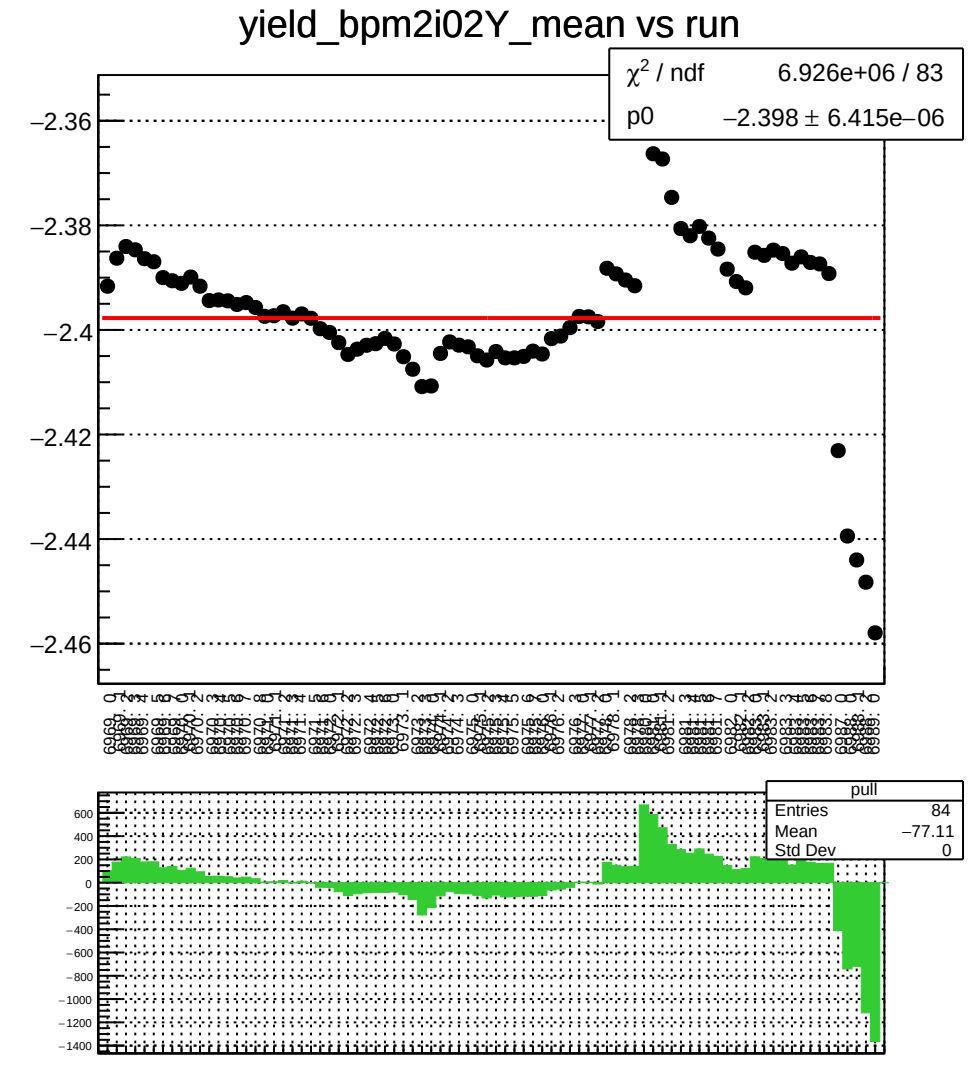

pull1D
Entries 84
Mean 3.162
Std Dev 5.639
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

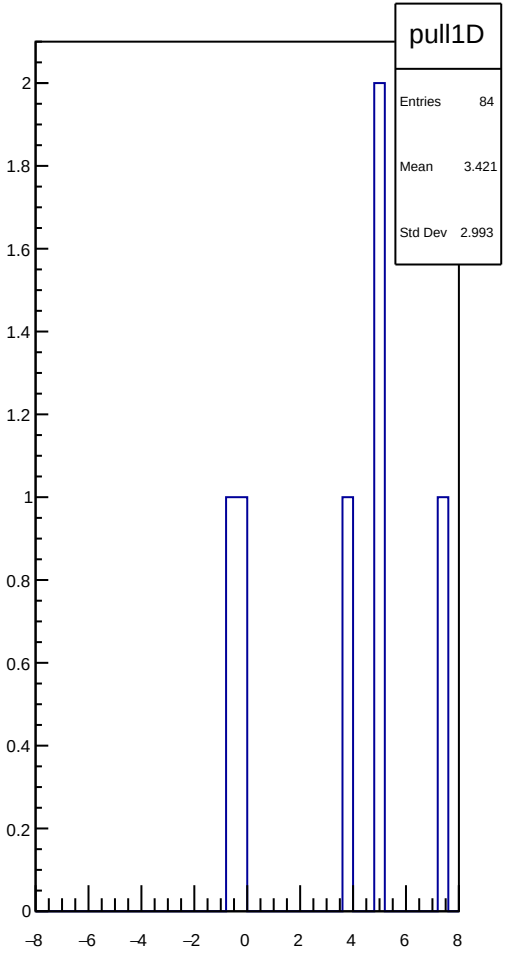

yield_bpm2i01Y_rms vs run
χ² / ndf 4.415e+04 / 83
p0 0.001842 ± 1.443e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

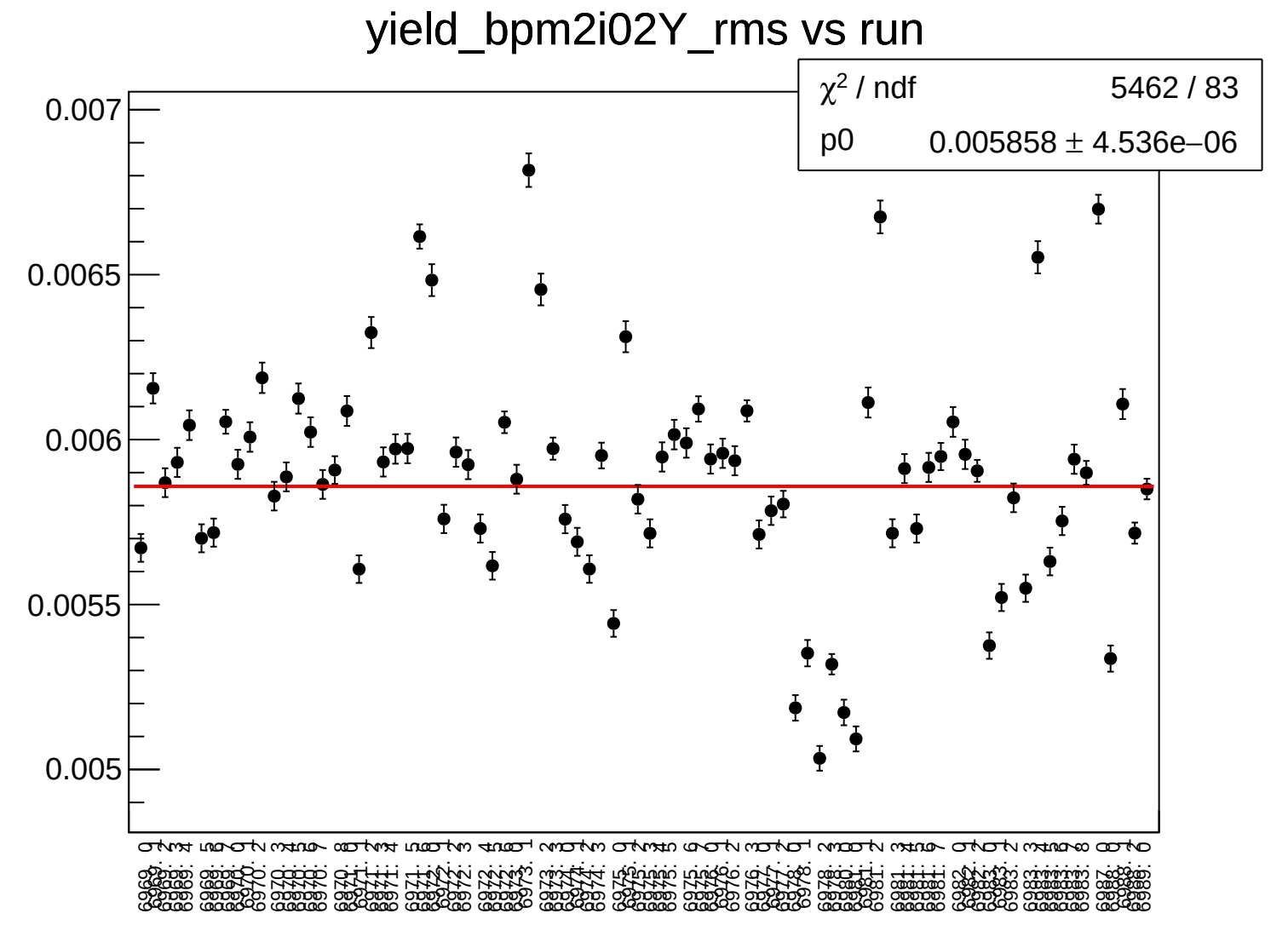

yield_bpm2i02X_mean vs run
χ² / ndf 4.623e+06 / 83
p0 0.4047 ± 7.171e−06
0.44
0.43
0.42
0.41
0.4
0.39
0.38
0.37
pull
Entries 84
Mean −487.3
Std Dev 0
600
400
200
0
−200
−400
−600

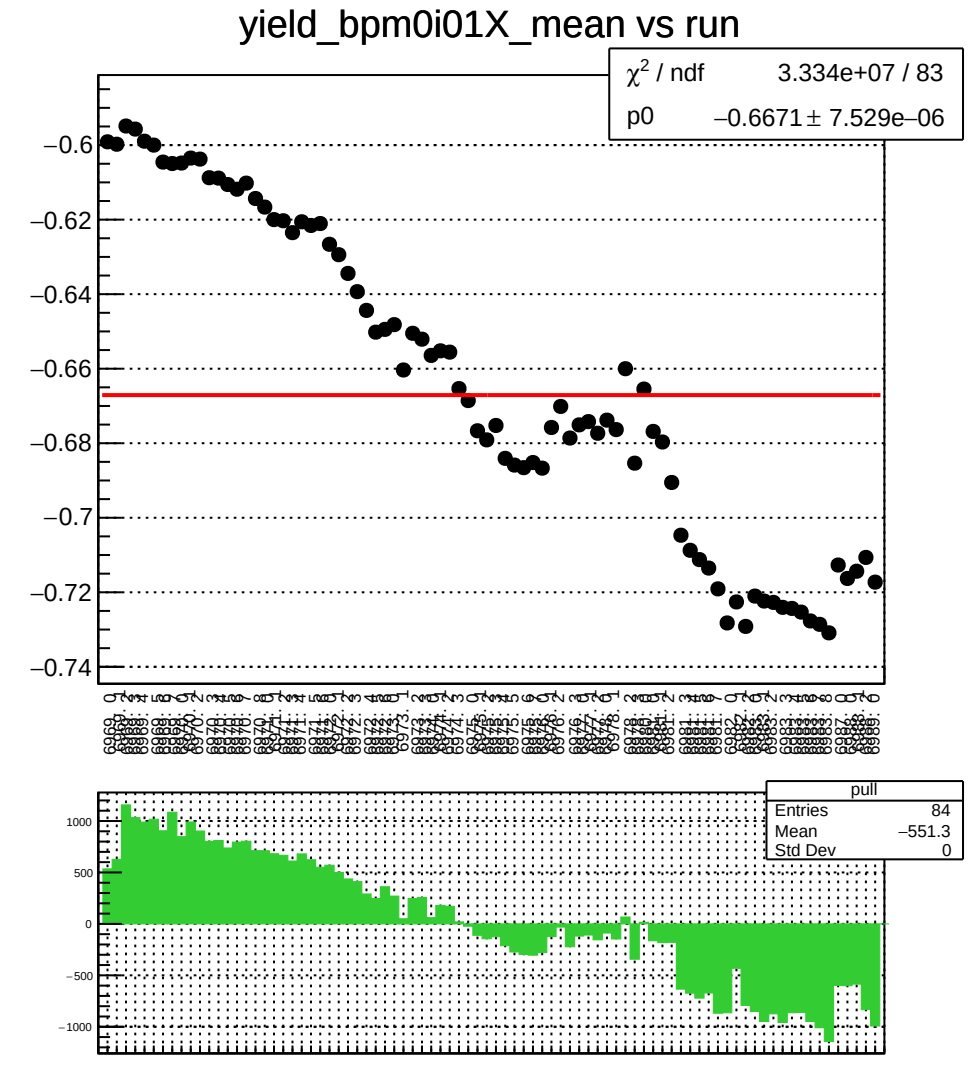

pull1D
Entries 84
Mean −1.564
Std Dev 4.766
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

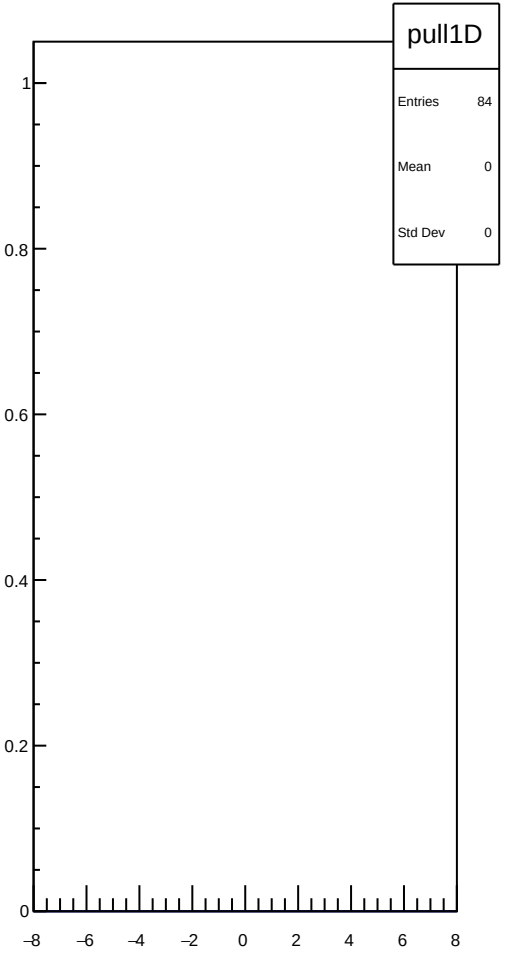

yield_bpm2i02X_rms vs run
χ² / ndf 1.558e+04 / 83
p0 0.006529 ± 5.071e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

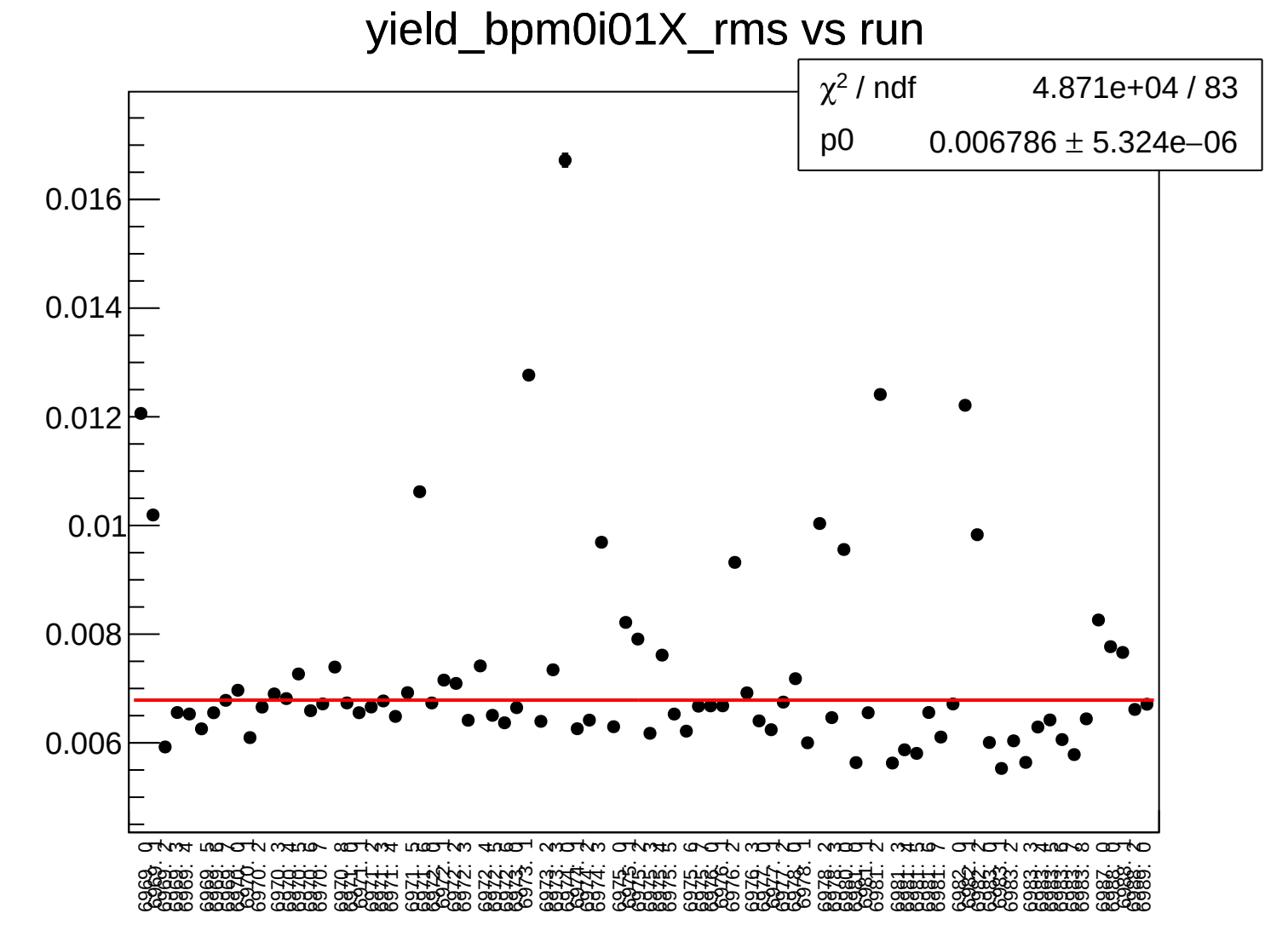

yield_bpm2i02Y_mean vs run
χ² / ndf 6.926e+06 / 83
p0 −2.398 ± 6.415e−06
−2.36
−2.38
−2.4
−2.42
−2.44
−2.46
pull
Entries 84
Mean −77.11
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

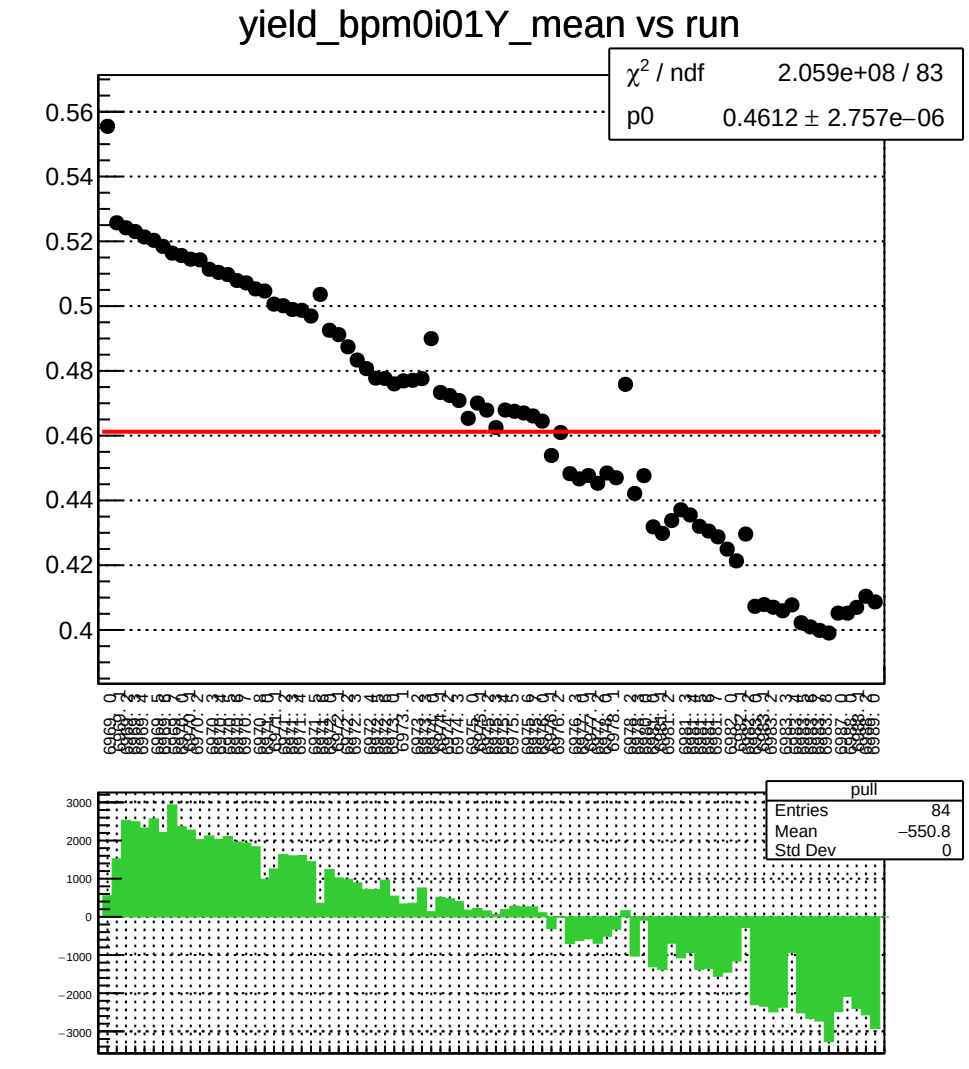

pull1D
Entries 84
Mean 3.421
Std Dev 2.993
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

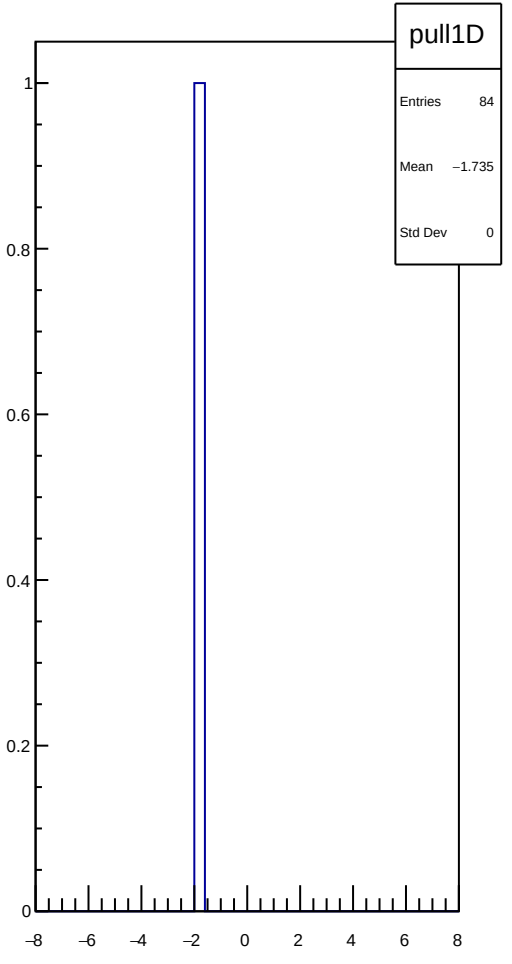

yield_bpm2i02Y_rms vs run
χ² / ndf 5462 / 83
p0 0.005858 ± 4.536e−06
0.007
0.0065
0.006
0.0055
0.005

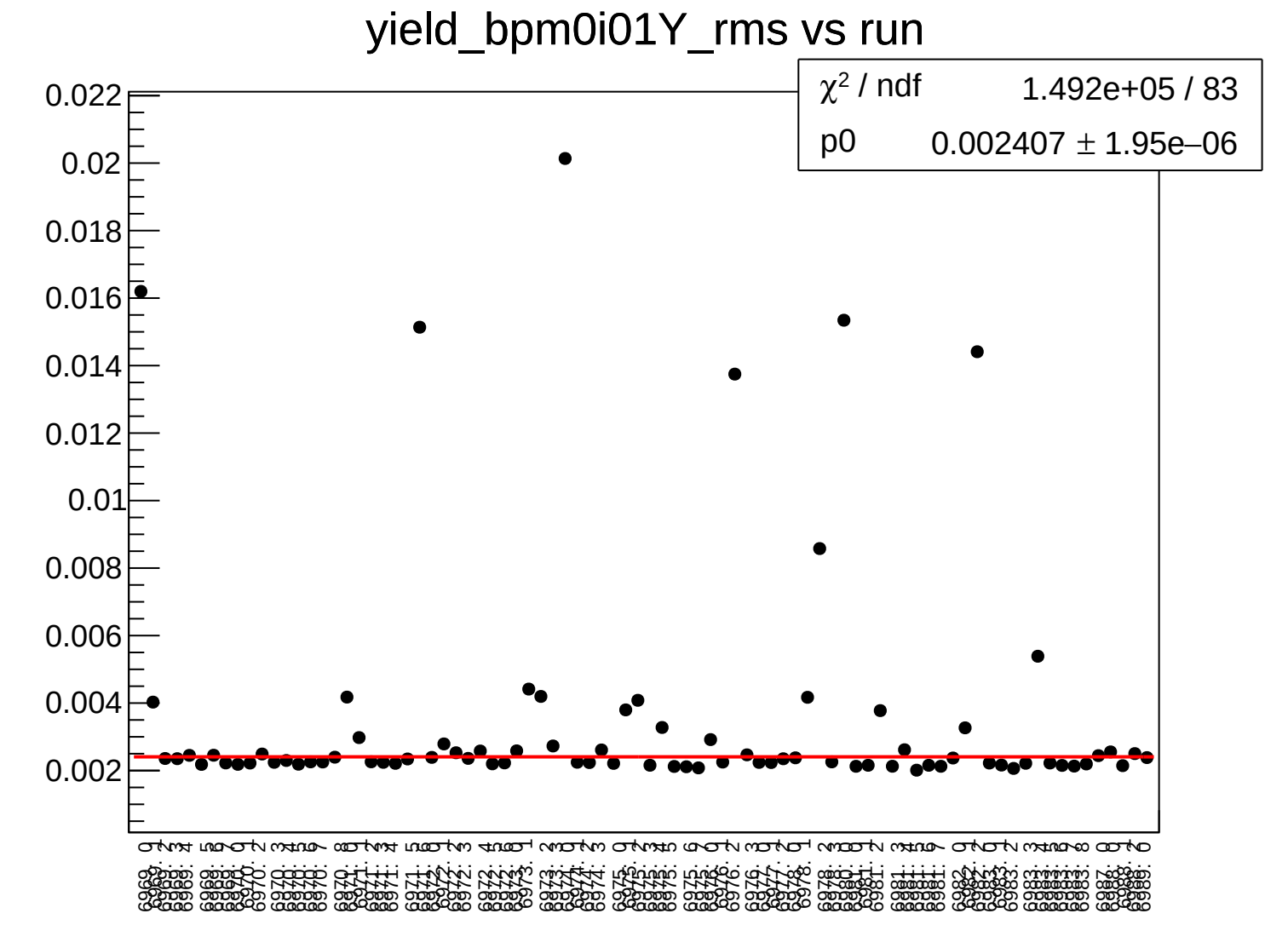

yield_bpm0i01X_mean vs run
χ² / ndf 3.334e+07 / 83
p0 −0.6671 ± 7.529e−06
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
pull
Entries 84
Mean −551.3
Std Dev 0
1000
500
0
−500
−1000

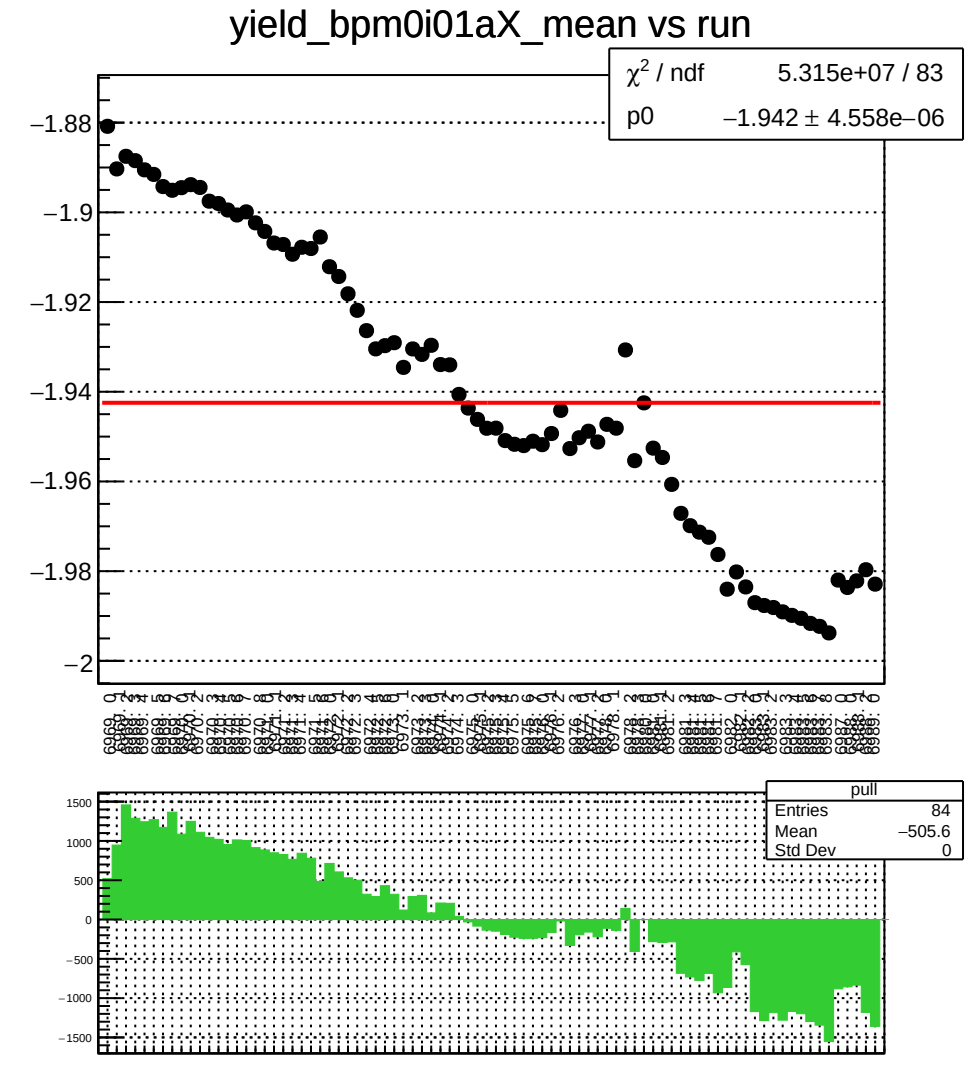

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

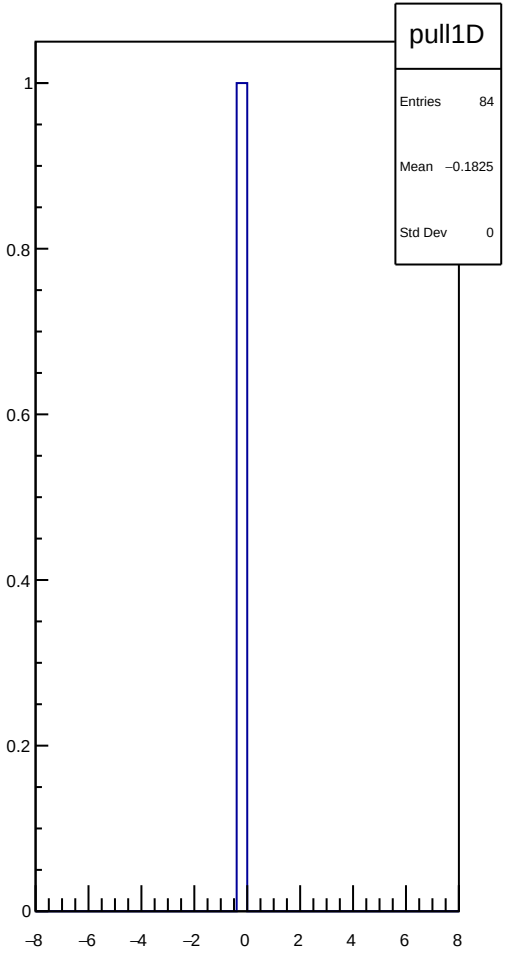

yield_bpm0i01X_rms vs run
χ² / ndf 4.871e+04 / 83
p0 0.006786 ± 5.324e−06
0.016
0.014
0.012
0.01
0.008
0.006

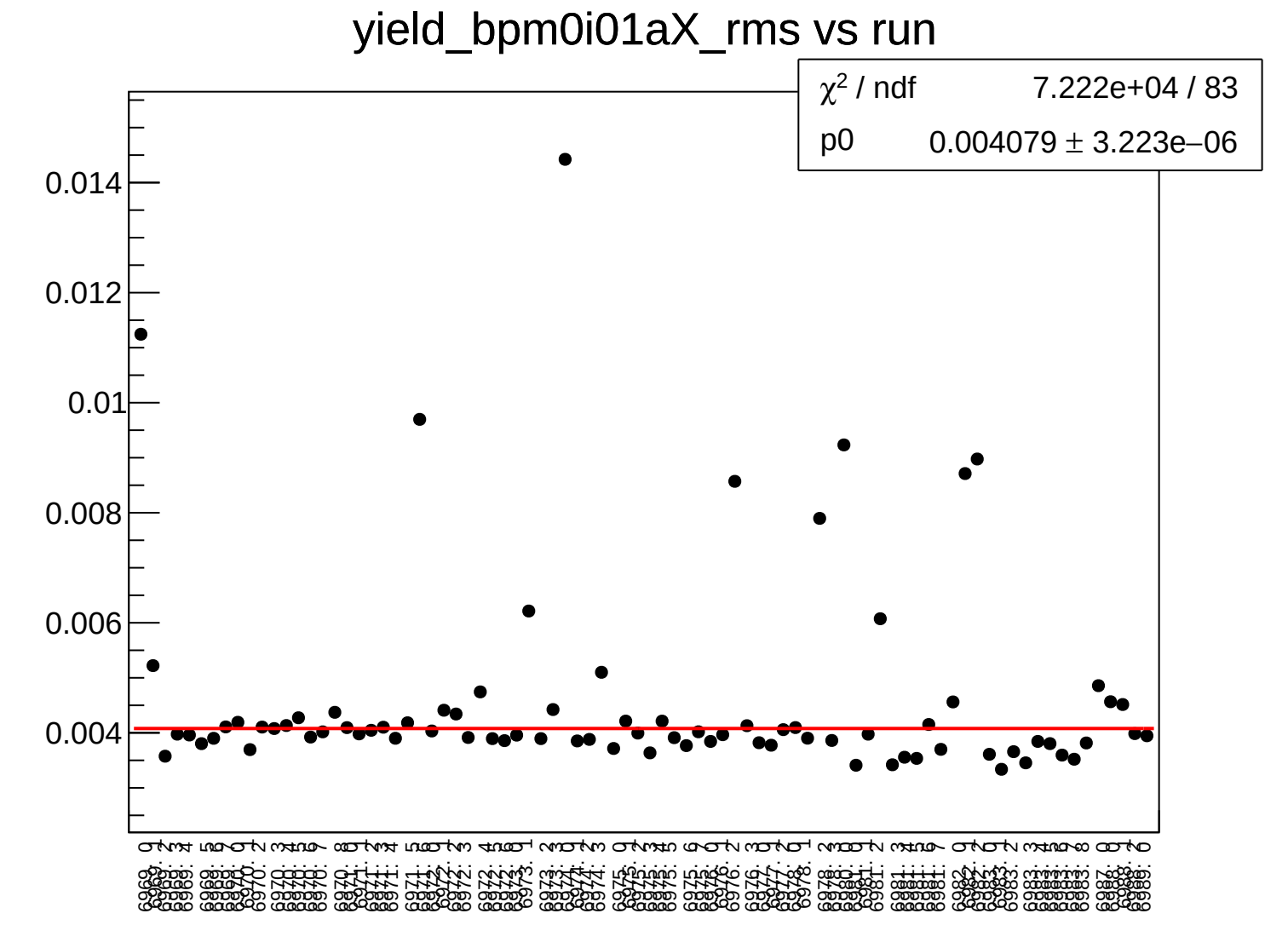

yield_bpm0i01Y_mean vs run
χ² / ndf 2.059e+08 / 83
p0 0.4612 ± 2.757e−06
0.56
0.54
0.52
0.5
0.48
0.46
0.44
0.42
0.4
pull
Entries 84
Mean −550.8
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000

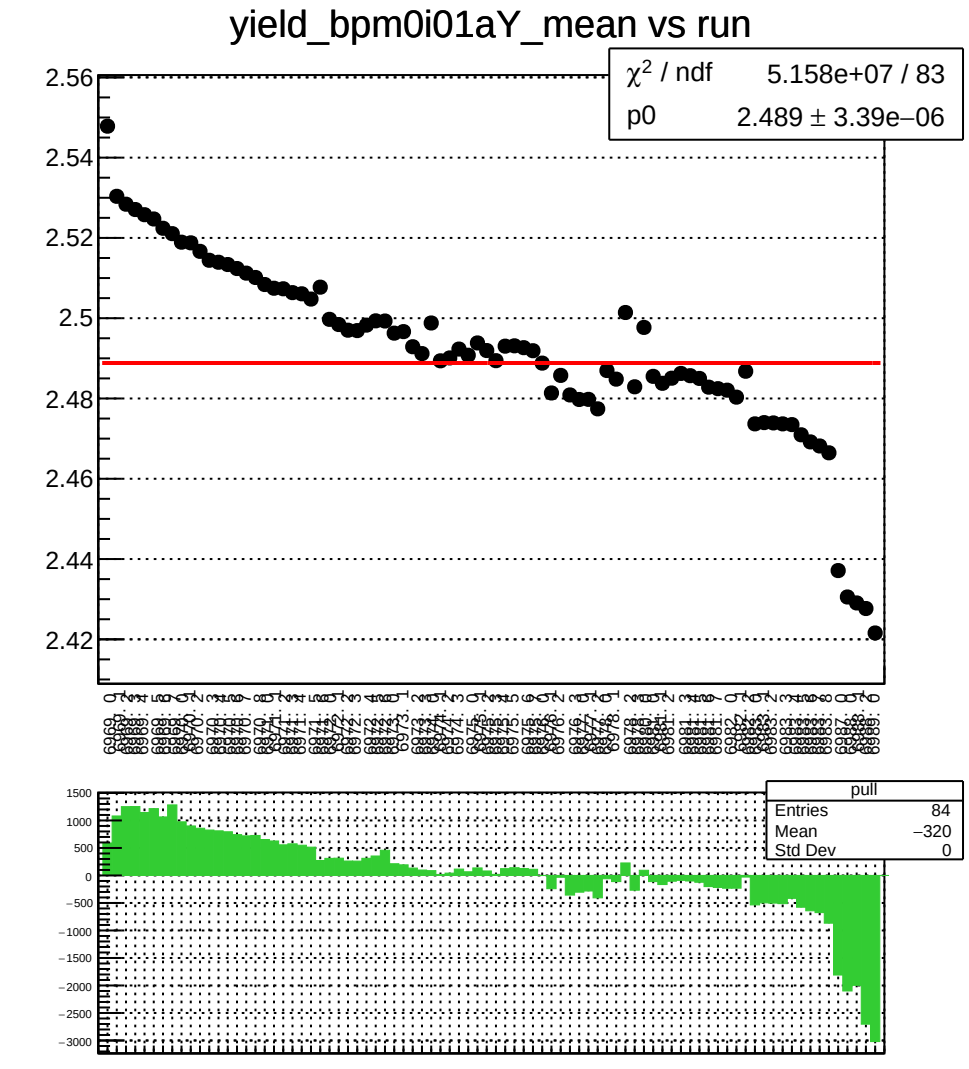

pull1D
Entries 84
Mean −1.735
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

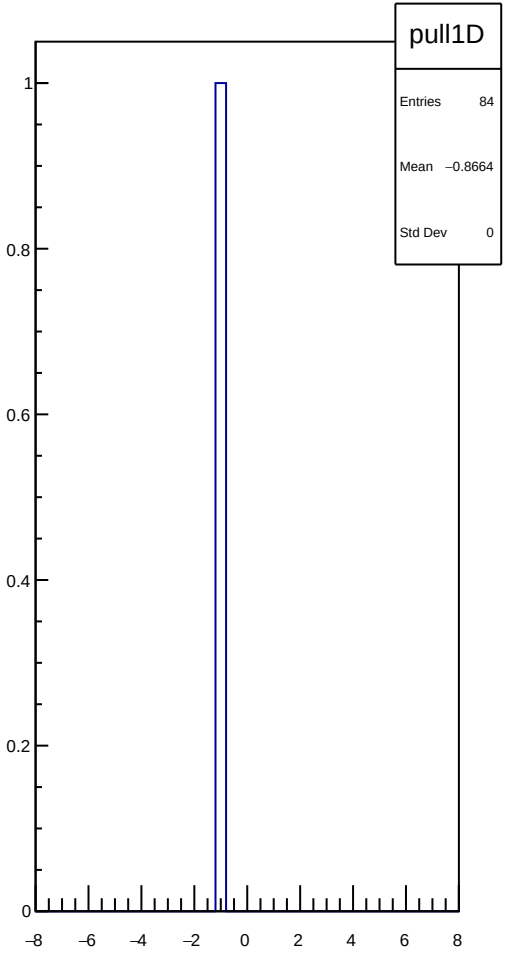

yield_bpm0i01Y_rms vs run
χ² / ndf 1.492e+05 / 83
p0 0.002407 ± 1.95e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

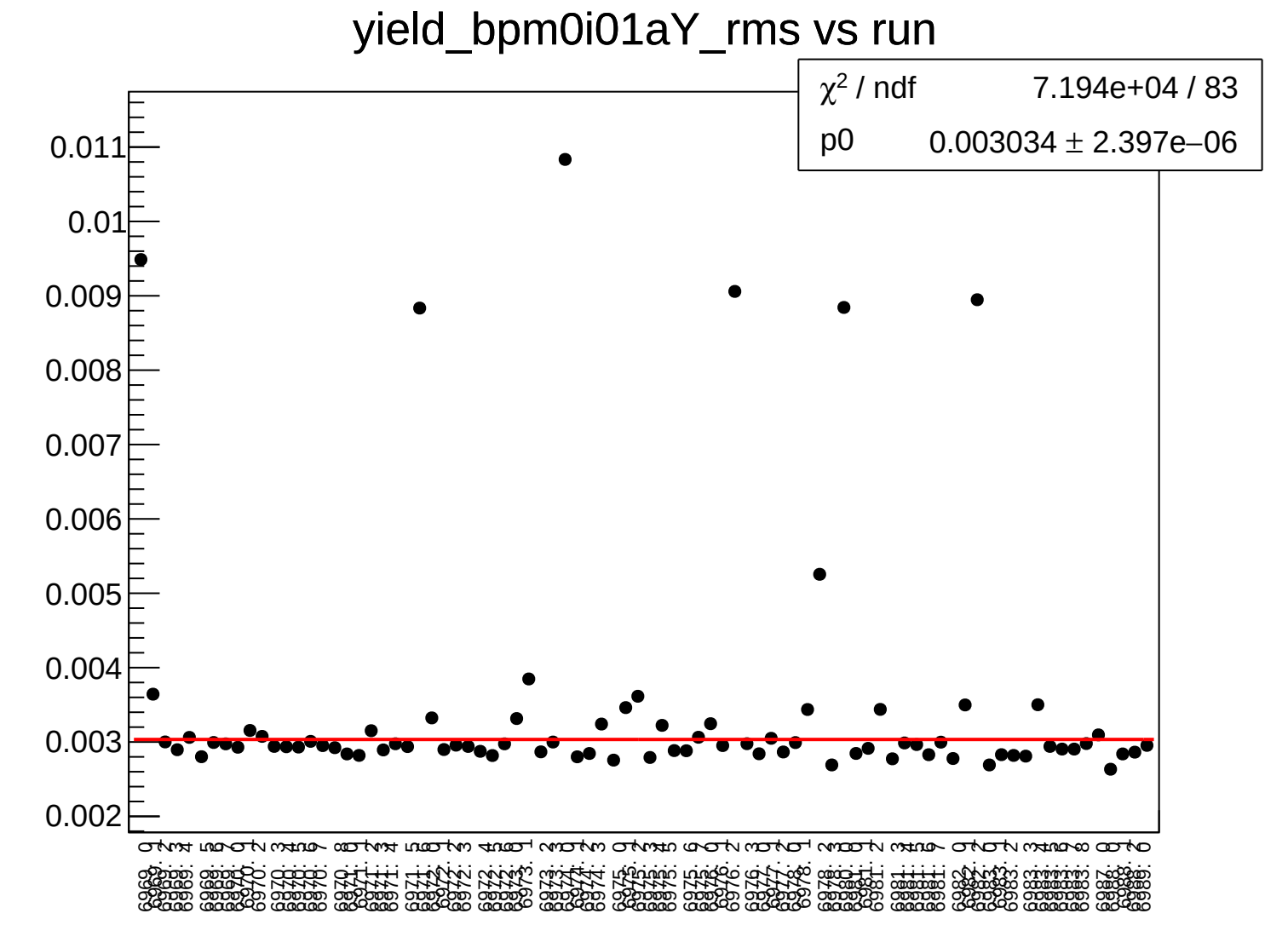

yield_bpm0i01aX_mean vs run
χ² / ndf 5.315e+07 / 83
p0 −1.942 ± 4.558e−06
−1.88
−1.9
−1.92
−1.94
−1.96
−1.98
−2
pull
Entries 84
Mean −505.6
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

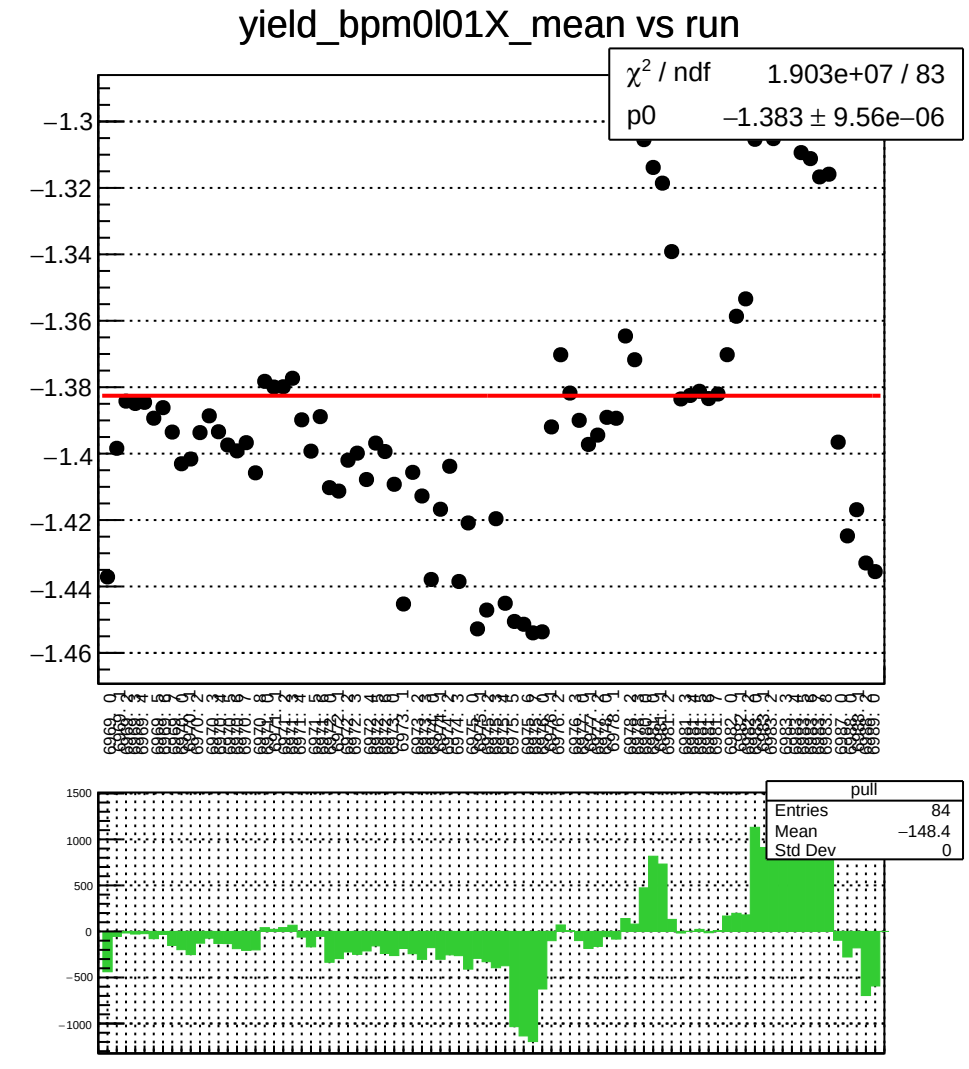

pull1D
Entries 84
Mean −0.1825
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

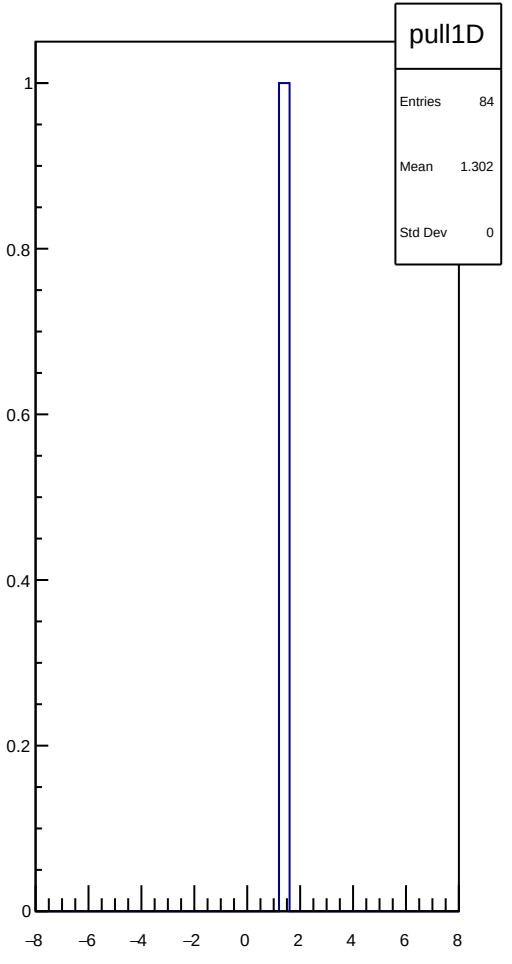

yield_bpm0i01aX_rms vs run
χ² / ndf 7.222e+04 / 83
p0 0.004079 ± 3.223e−06
0.014
0.012
0.01
0.008
0.006
0.004

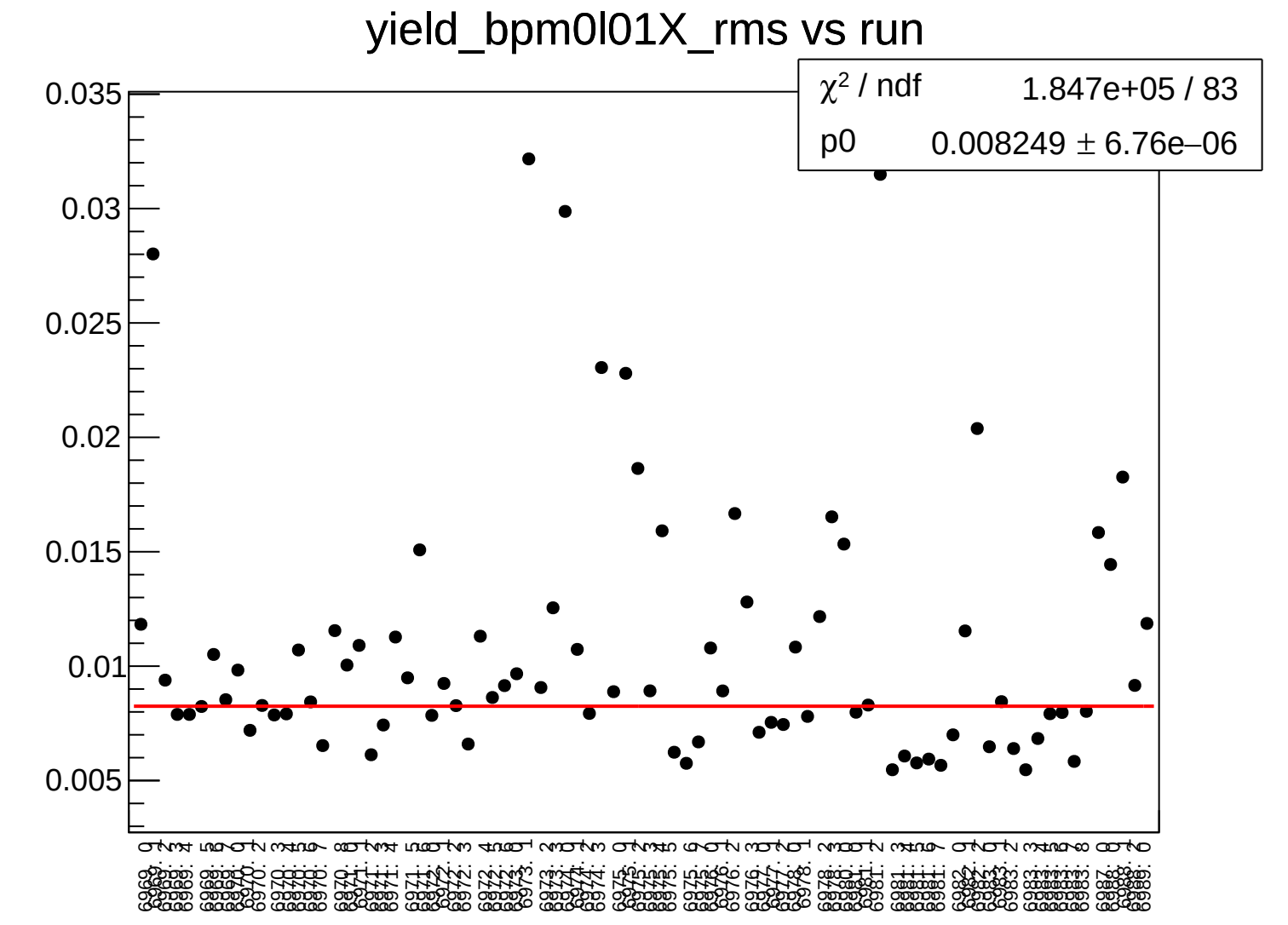

yield_bpm0i01aY_mean vs run
χ² / ndf 5.158e+07 / 83
p0 2.489 ± 3.39e−06
2.56
2.54
2.52
2.5
2.48
2.46
2.44
2.42
pull
Entries 84
Mean −320
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

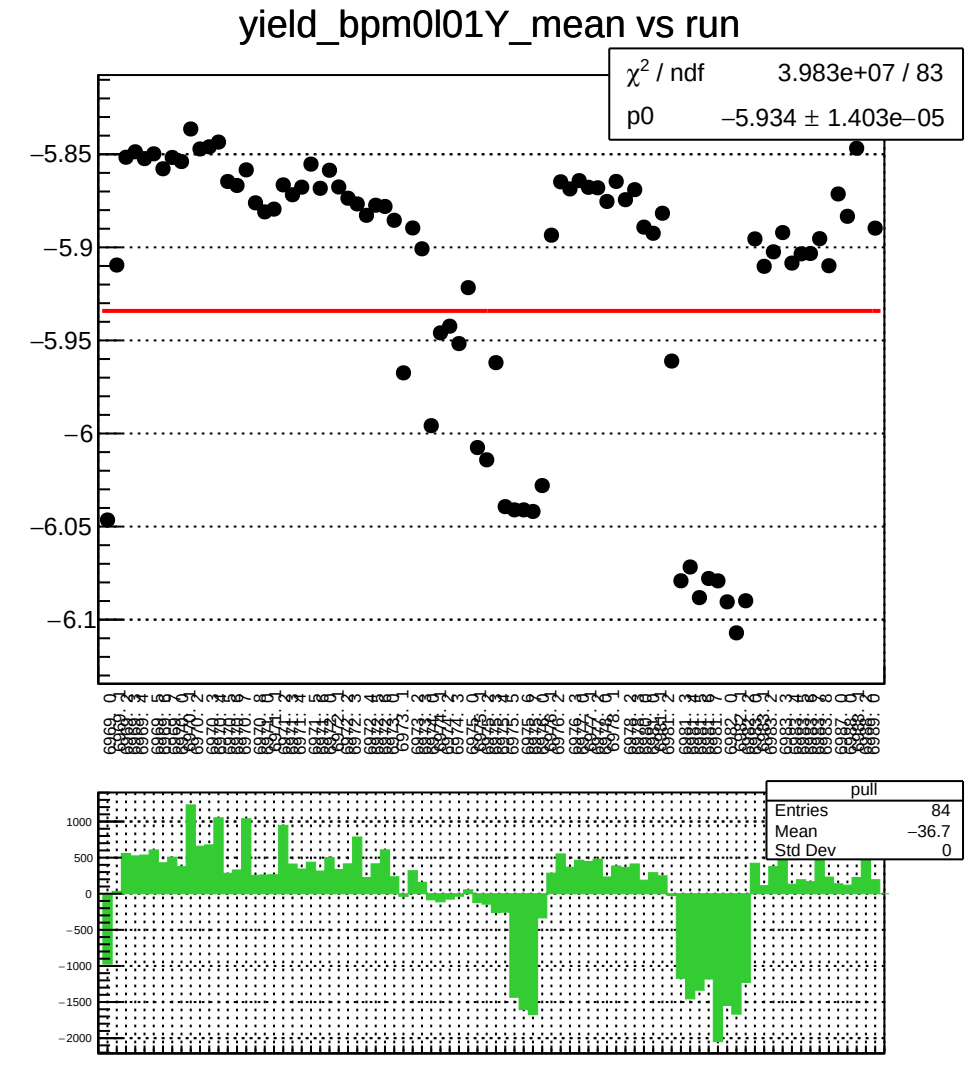

pull1D
Entries 84
Mean −0.8664
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

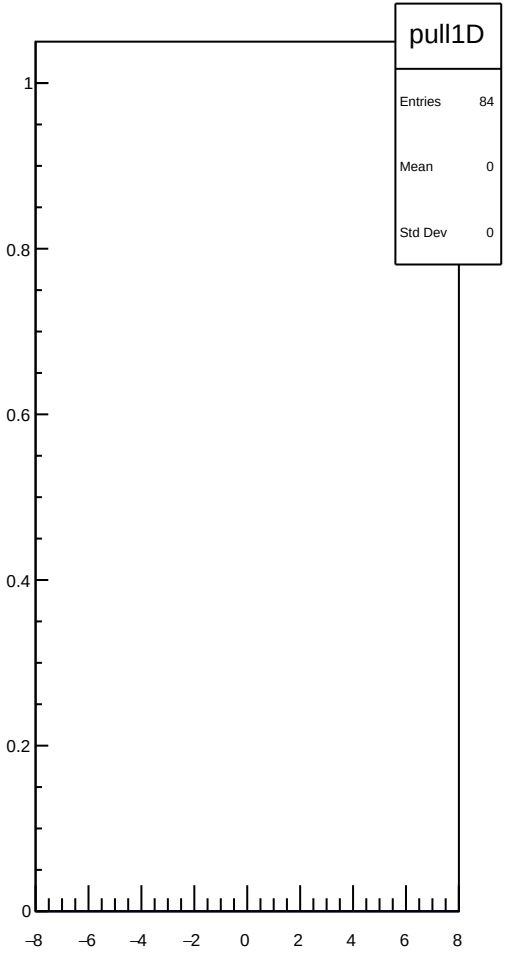

yield_bpm0i01aY_rms vs run
χ² / ndf 7.194e+04 / 83
p0 0.003034 ± 2.397e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

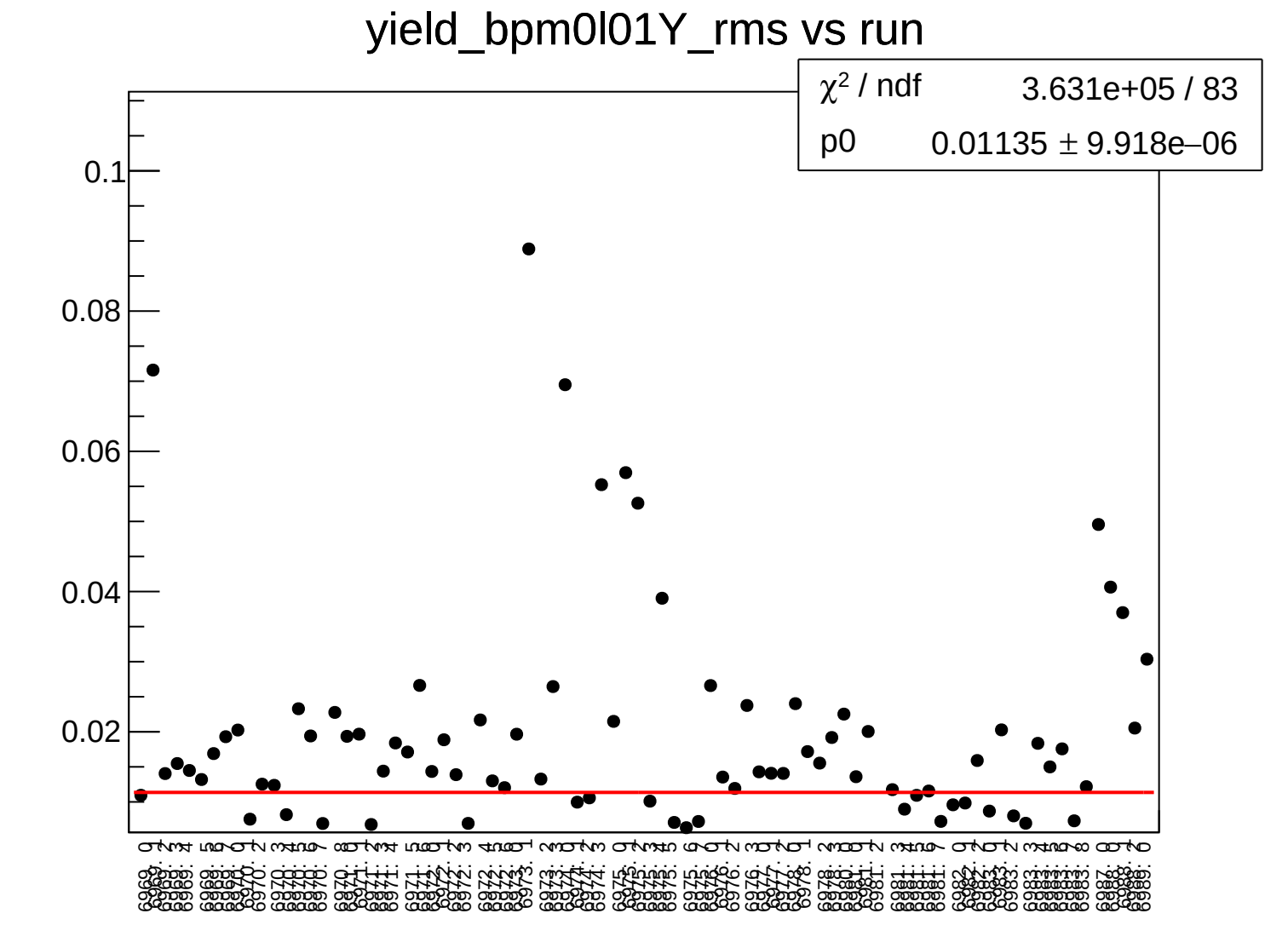

yield_bpm0l01X_mean vs run
χ² / ndf 1.903e+07 / 83
p0 −1.383 ± 9.56e−06
−1.3
−1.32
−1.34
−1.36
−1.38
−1.4
−1.42
−1.44
−1.46
pull
Entries 84
Mean −148.4
Std Dev 0
1500
1000
500
0
−500
−1000

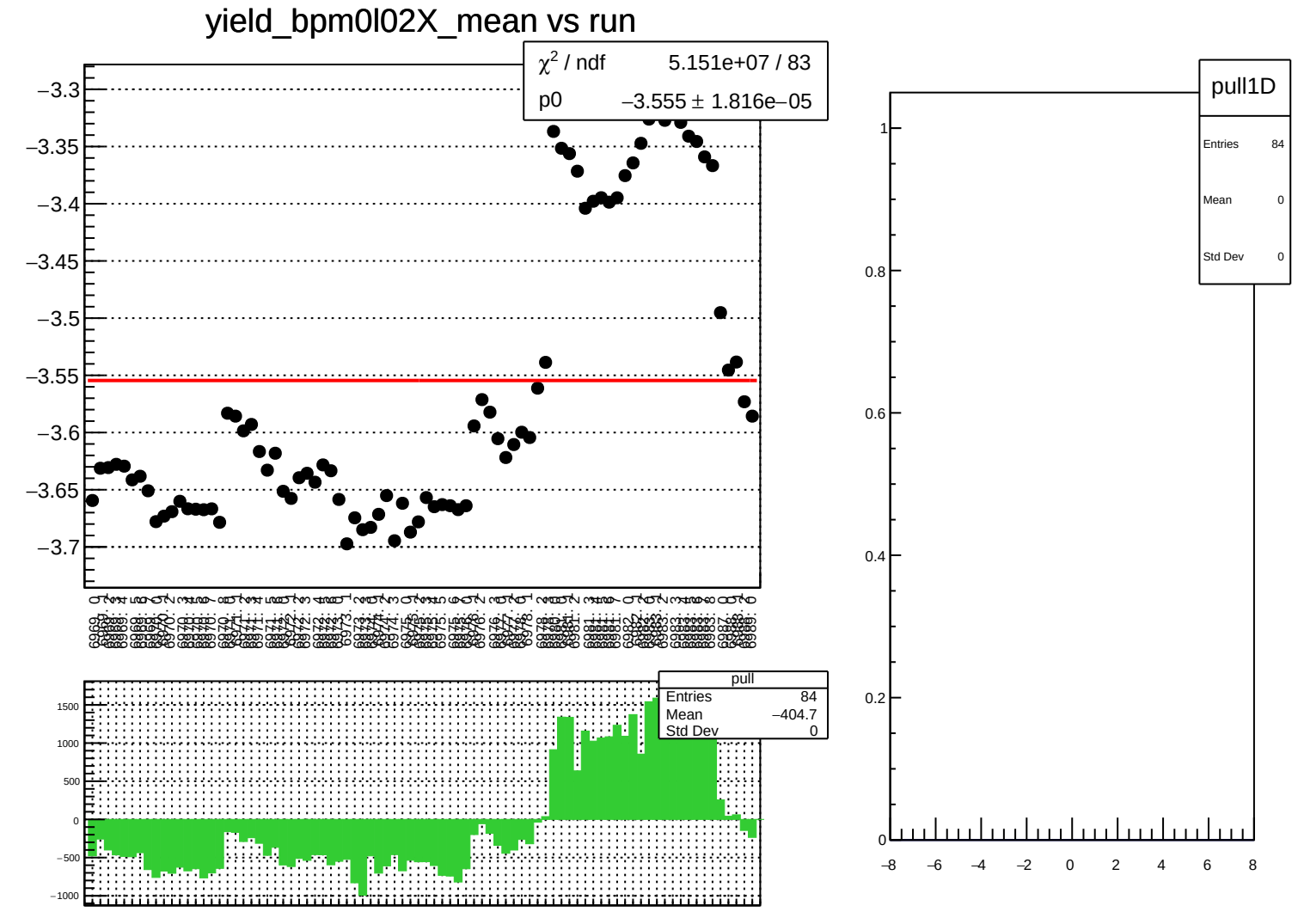

pull1D
Entries 84
Mean 1.302
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

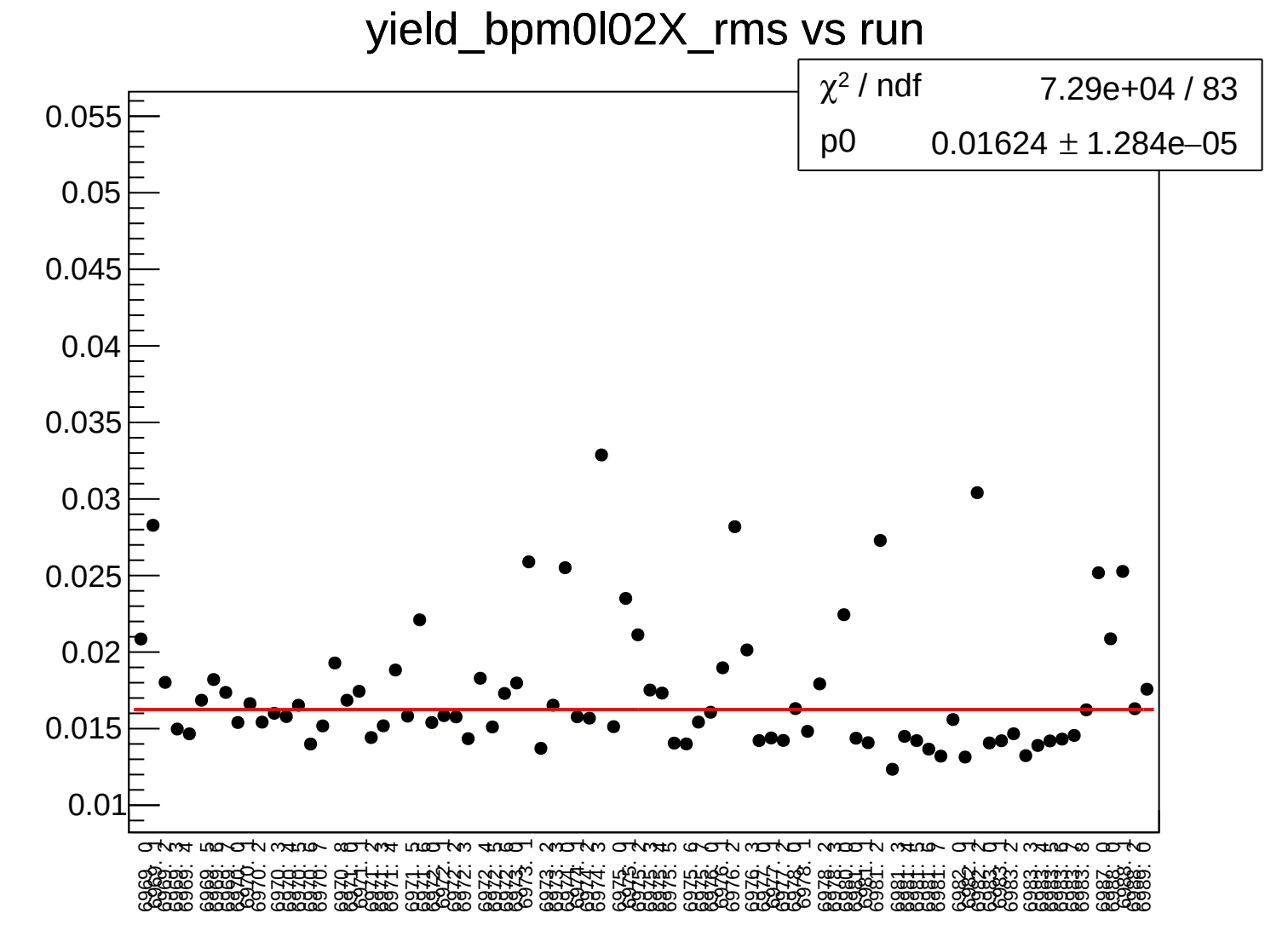

yield_bpm0l01X_rms vs run
χ² / ndf 1.847e+05 / 83
p0 0.008249 ± 6.76e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

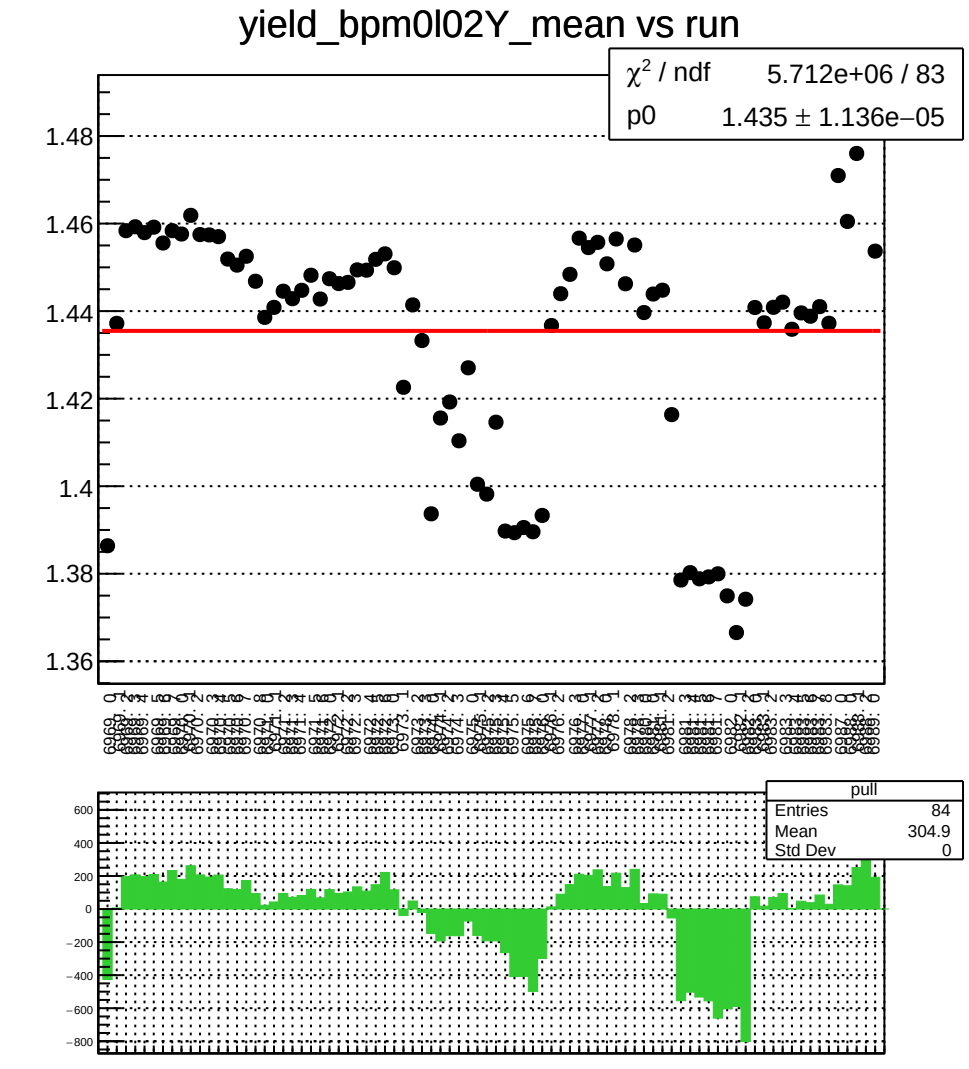

yield_bpm0l01Y_mean vs run
χ² / ndf 3.983e+07 / 83
p0 −5.934 ± 1.403e−05
−5.85
−5.9
−5.95
−6
−6.05
−6.1
pull
Entries 84
Mean −36.7
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

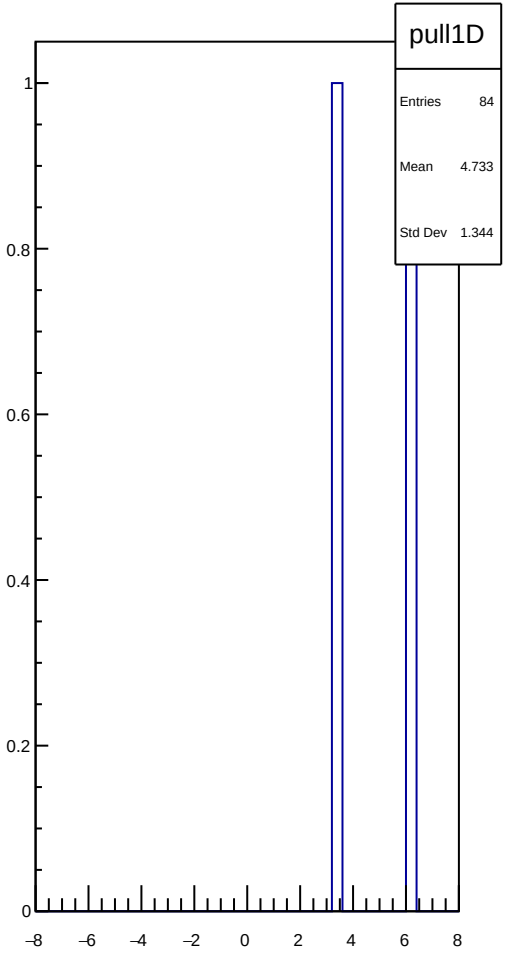

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

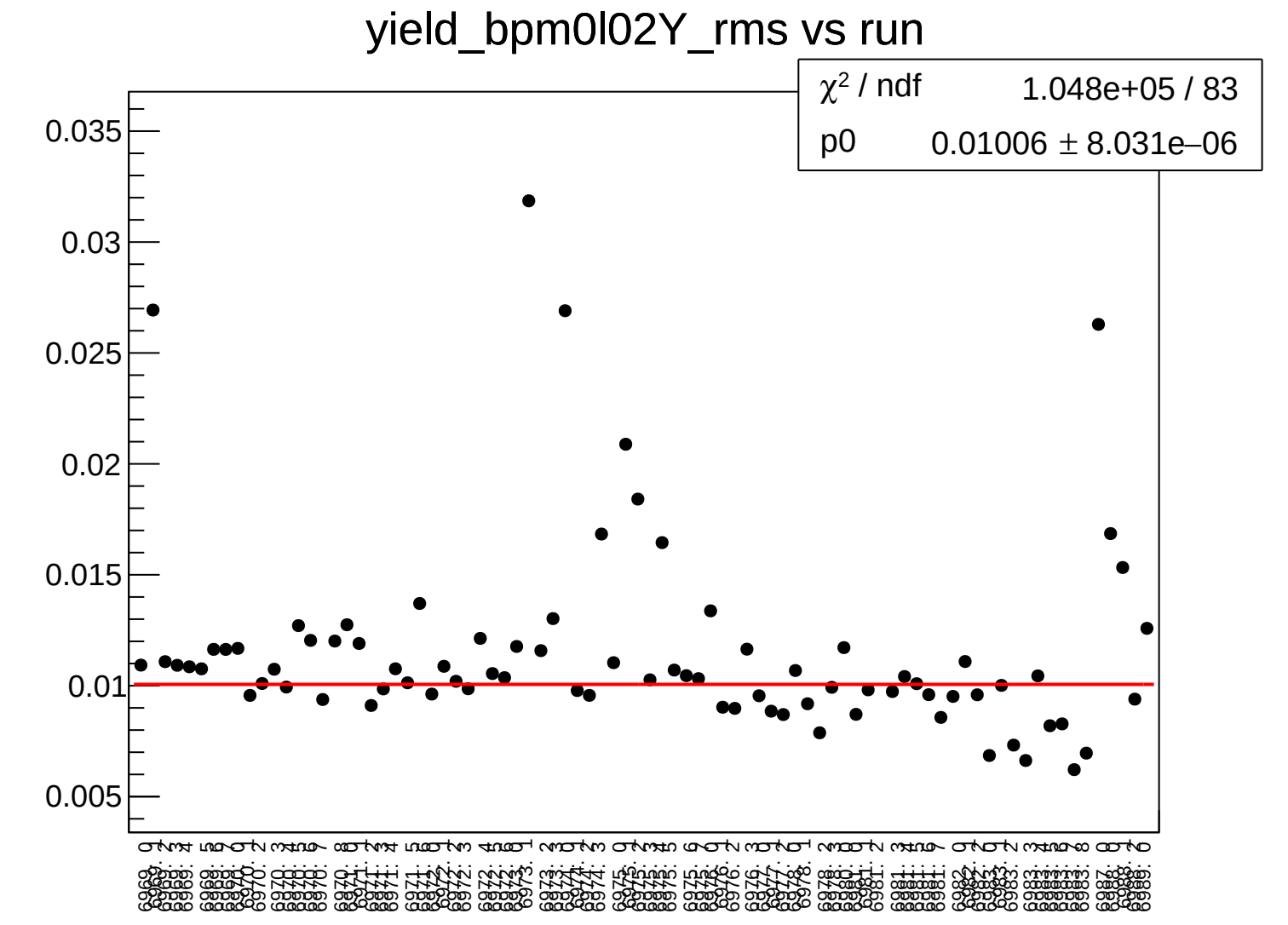

yield_bpm0l01Y_rms vs run
χ² / ndf 3.631e+05 / 83
p0 0.01135 ± 9.918e–06
0.1
0.08
0.06
0.04
0.02

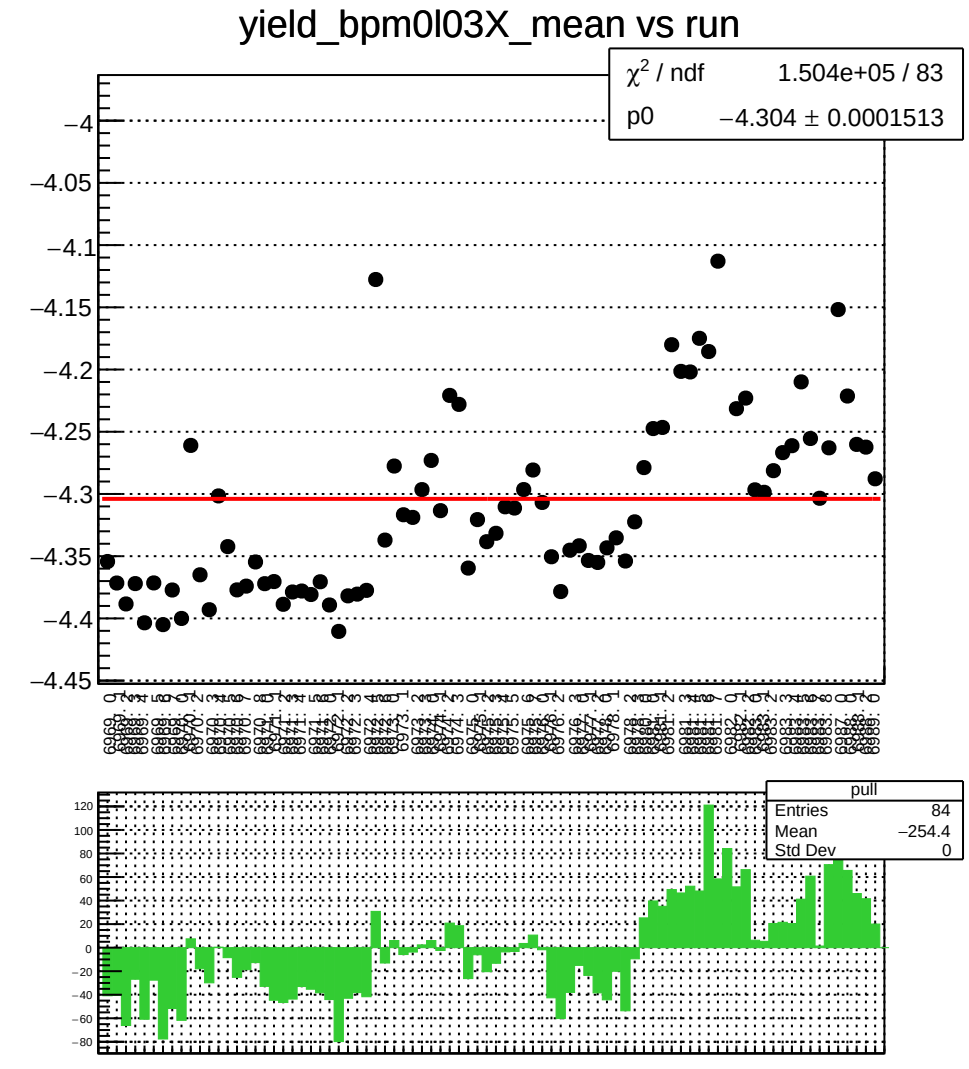

yield_bpm0l02X_mean vs run
χ² / ndf 5.151e+07 / 83
p0 −3.555 ± 1.816e−05
−3.3
−3.35
−3.4
−3.45
−3.5
−3.55
−3.6
−3.65
−3.7
pull
Entries 84
Mean −404.7
Std Dev 0
1500
1000
500
0
−500
−1000
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

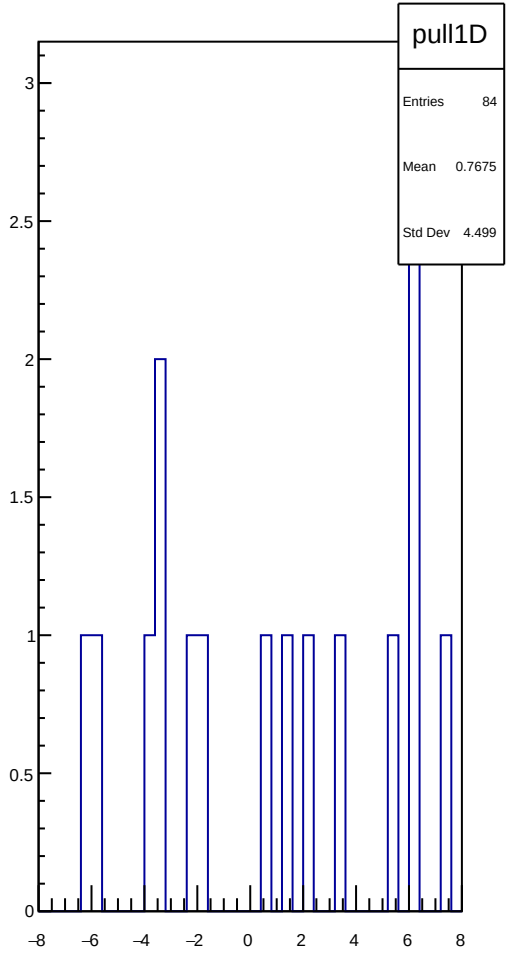

yield_bpm0l02X_rms vs run
χ² / ndf 7.29e+04 / 83
p0 0.01624 ± 1.284e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

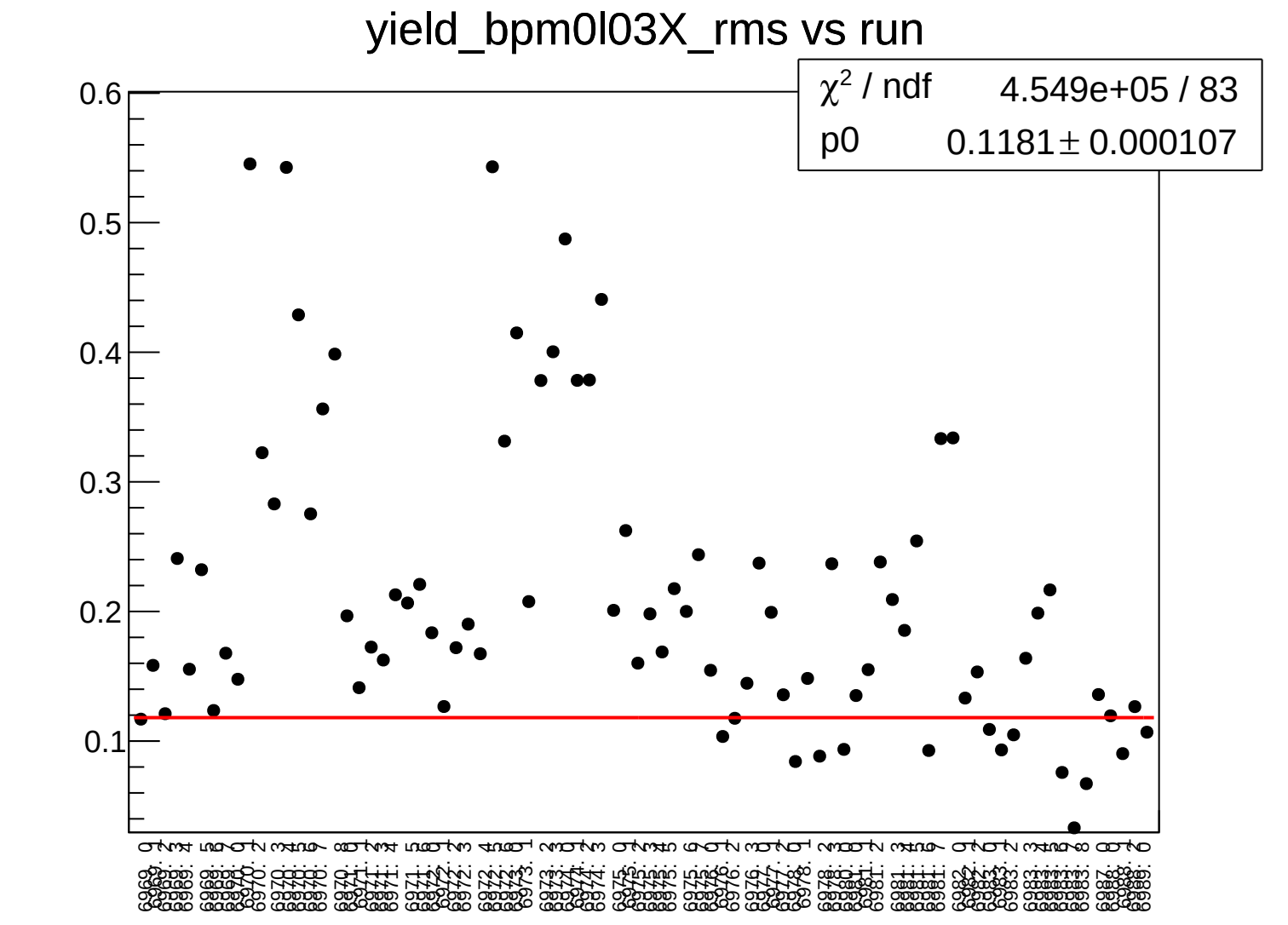

yield_bpm0l02Y_mean vs run
χ² / ndf 5.712e+06 / 83
p0 1.435 ± 1.136e−05
1.48
1.46
1.44
1.42
1.4
1.38
1.36
pull
Entries 84
Mean 304.9
Std Dev 0
600
400
200
0
−200
−400
−600
−800

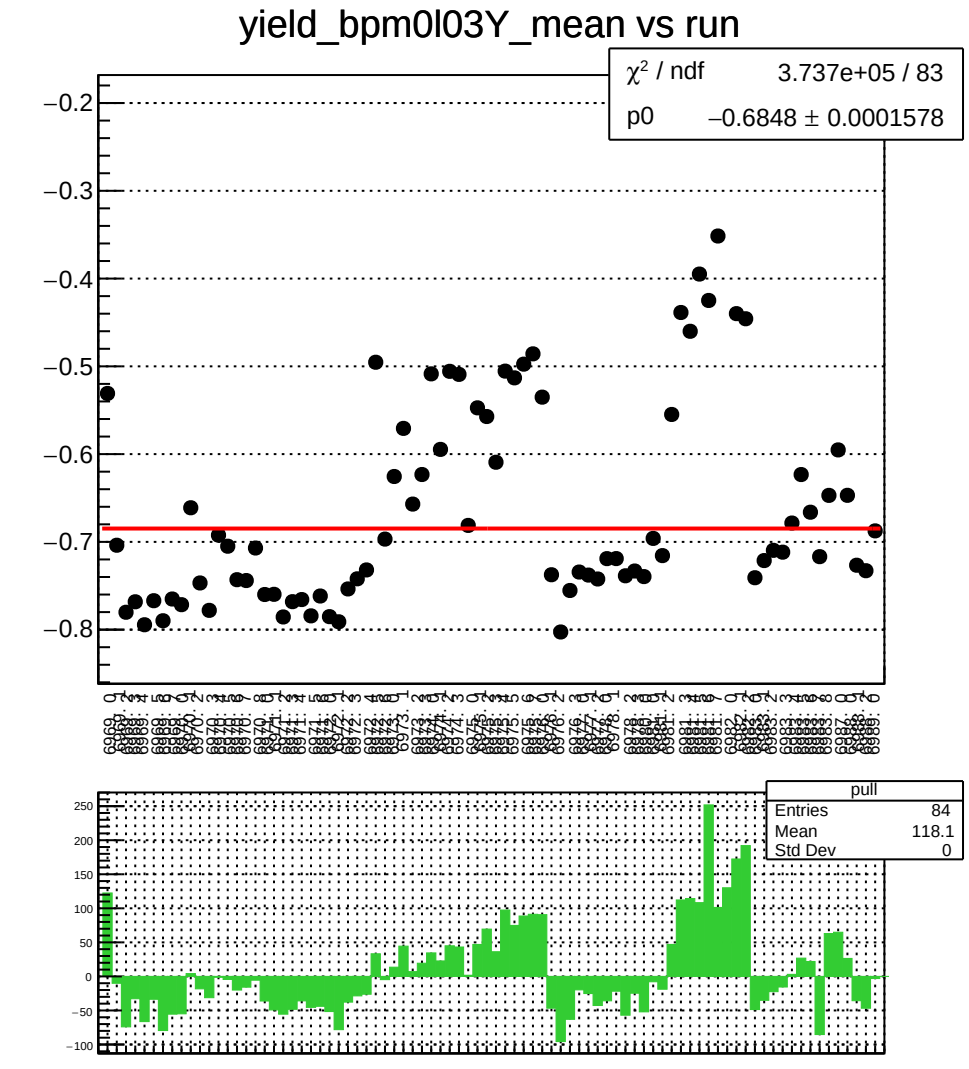

pull1D
Entries 84
Mean 4.733
Std Dev 1.344
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

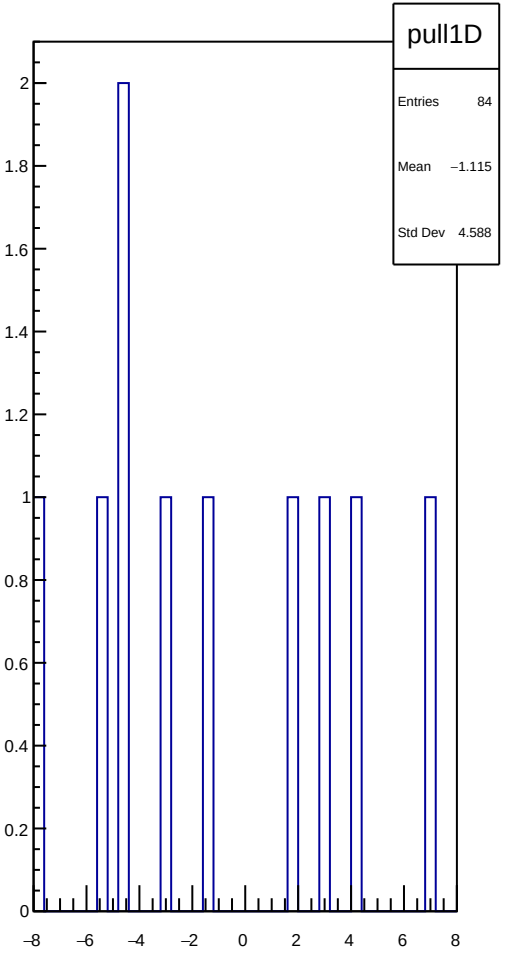

yield_bpm0l02Y_rms vs run
χ² / ndf 1.048e+05 / 83
p0 0.01006 ± 8.031e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

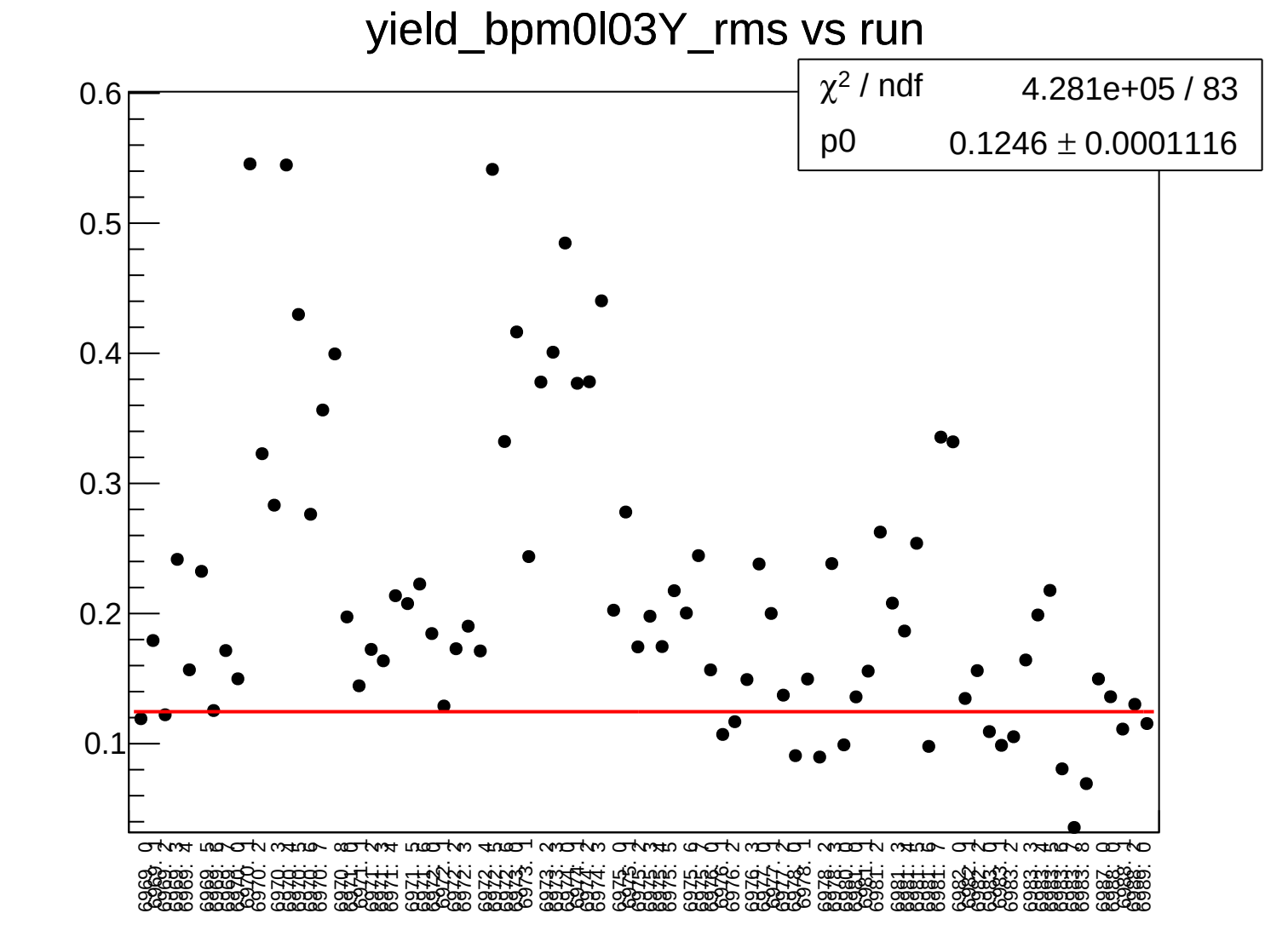

yield_bpm0l03X_mean vs run
χ² / ndf 1.504e+05 / 83
p0 −4.304 ± 0.0001513
pull
Entries 84
Mean −254.4
Std Dev 0

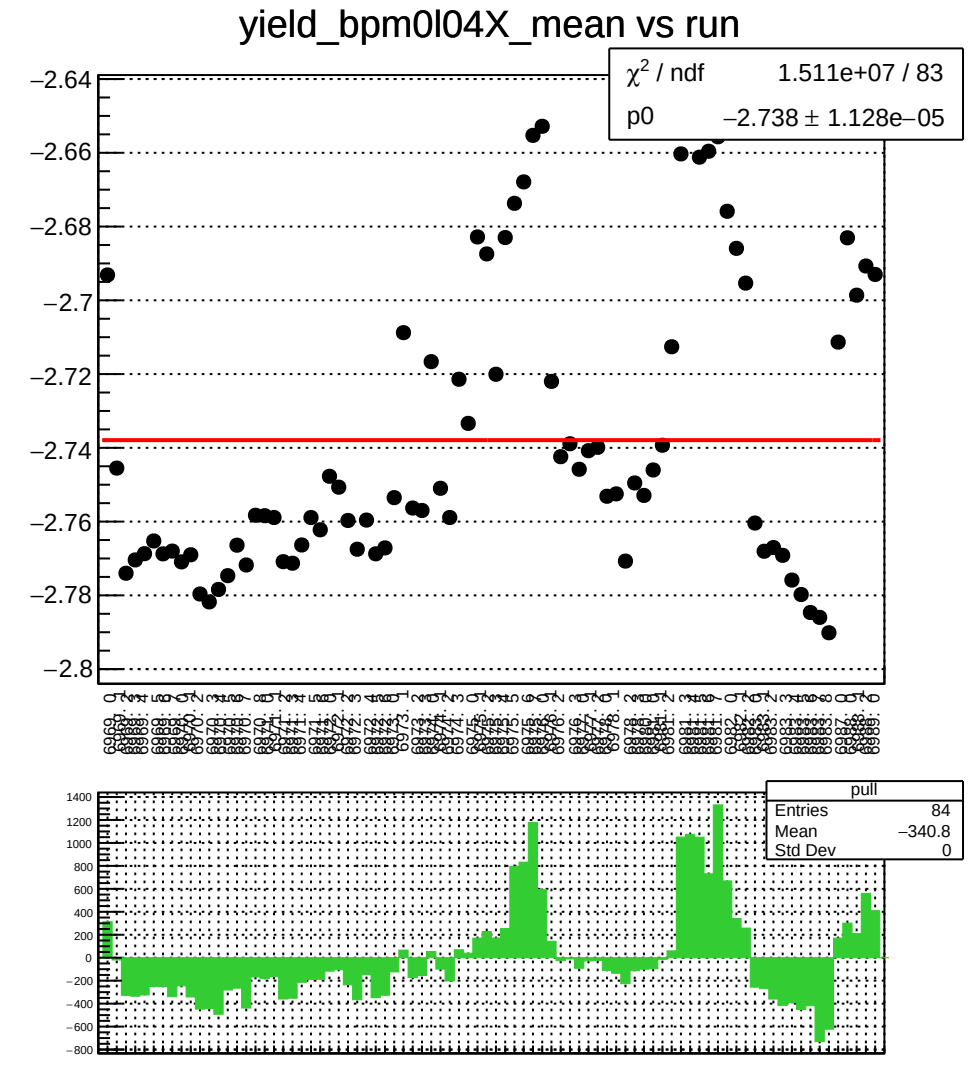

pull1D
Entries 84
Mean 0.7675
Std Dev 4.499

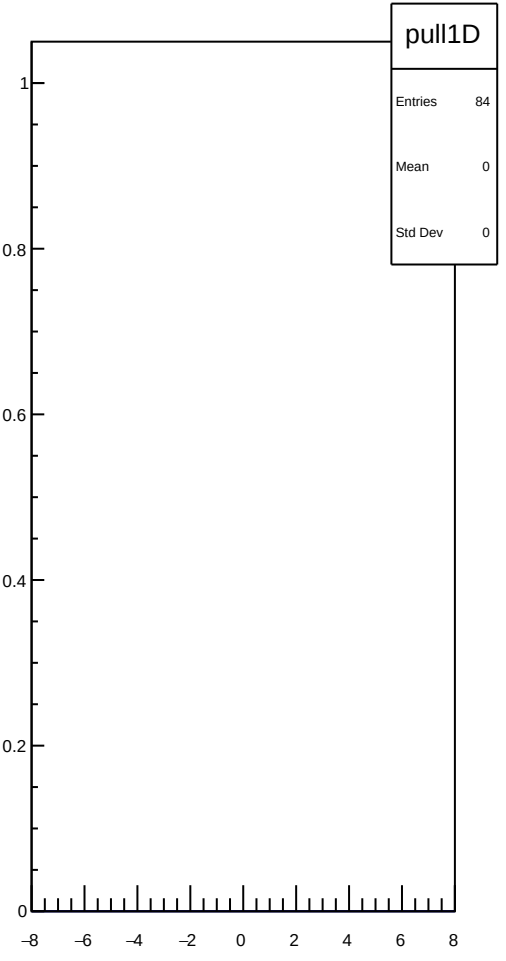

yield_bpm0l03X_rms vs run
χ² / ndf 4.549e+05 / 83
p0 0.1181 ± 0.000107
0.6
0.5
0.4
0.3
0.2
0.1

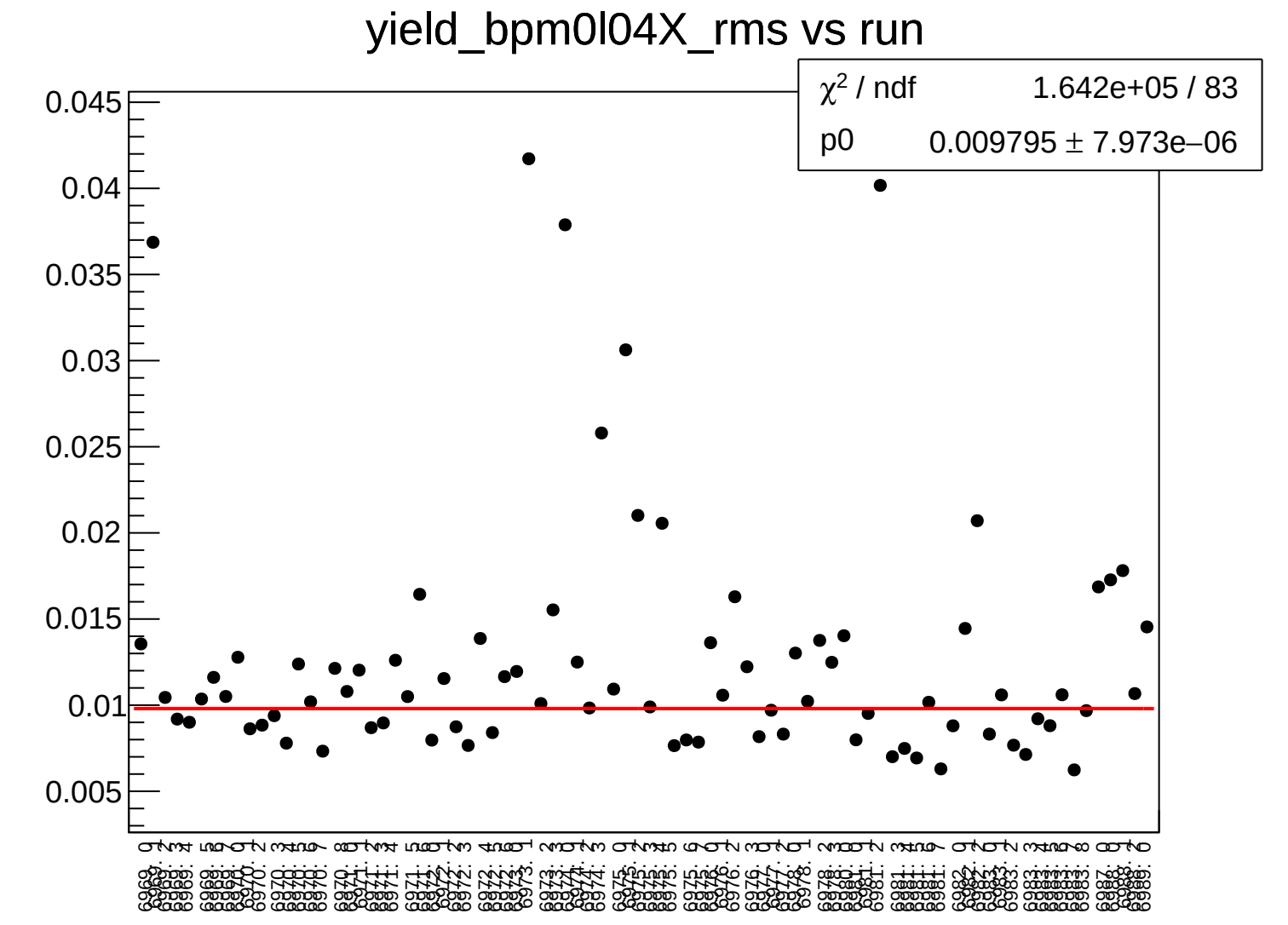

yield_bpm0l03Y_mean vs run
χ² / ndf 3.737e+05 / 83
p0 −0.6848 ± 0.0001578
pull
Entries 84
Mean 118.1
Std Dev 0

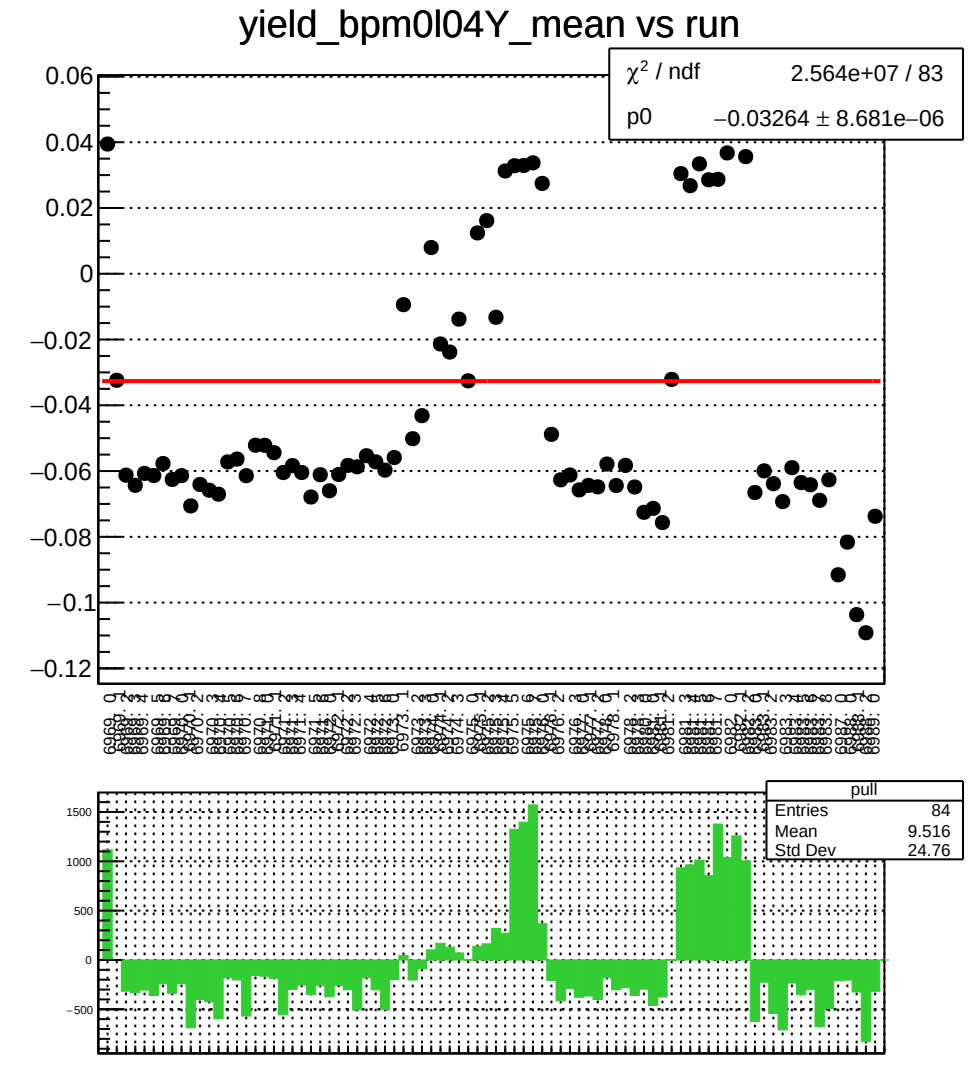

pull1D
Entries 84
Mean −1.115
Std Dev 4.588

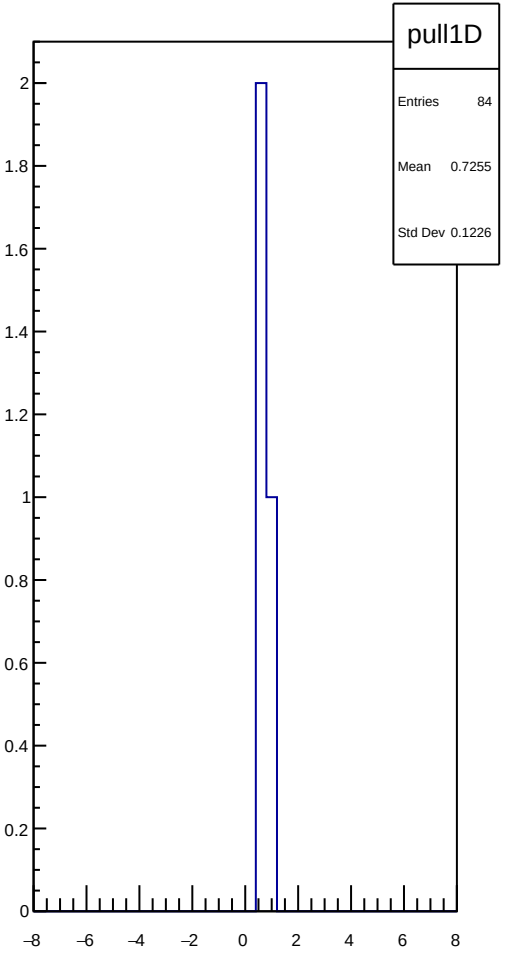

yield_bpm0l03Y_rms vs run
χ² / ndf 4.281e+05 / 83
p0 0.1246 ± 0.0001116
0.6
0.5
0.4
0.3
0.2
0.1

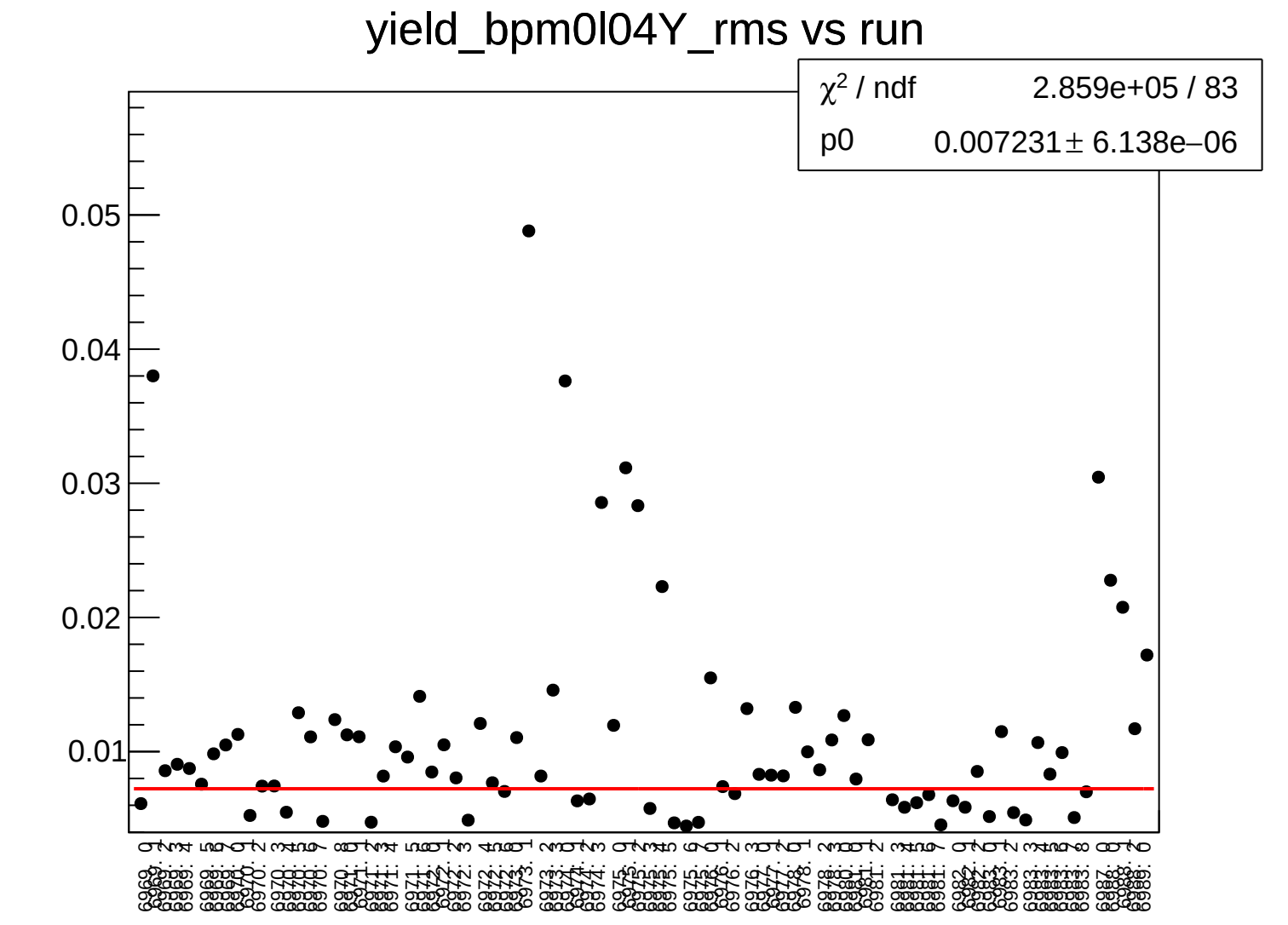

yield_bpm0l04X_mean vs run
χ² / ndf 1.511e+07 / 83
p0 −2.738 ± 1.128e−05
−2.64
−2.66
−2.68
−2.7
−2.72
−2.74
−2.76
−2.78
−2.8
pull
Entries 84
Mean −340.8
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800

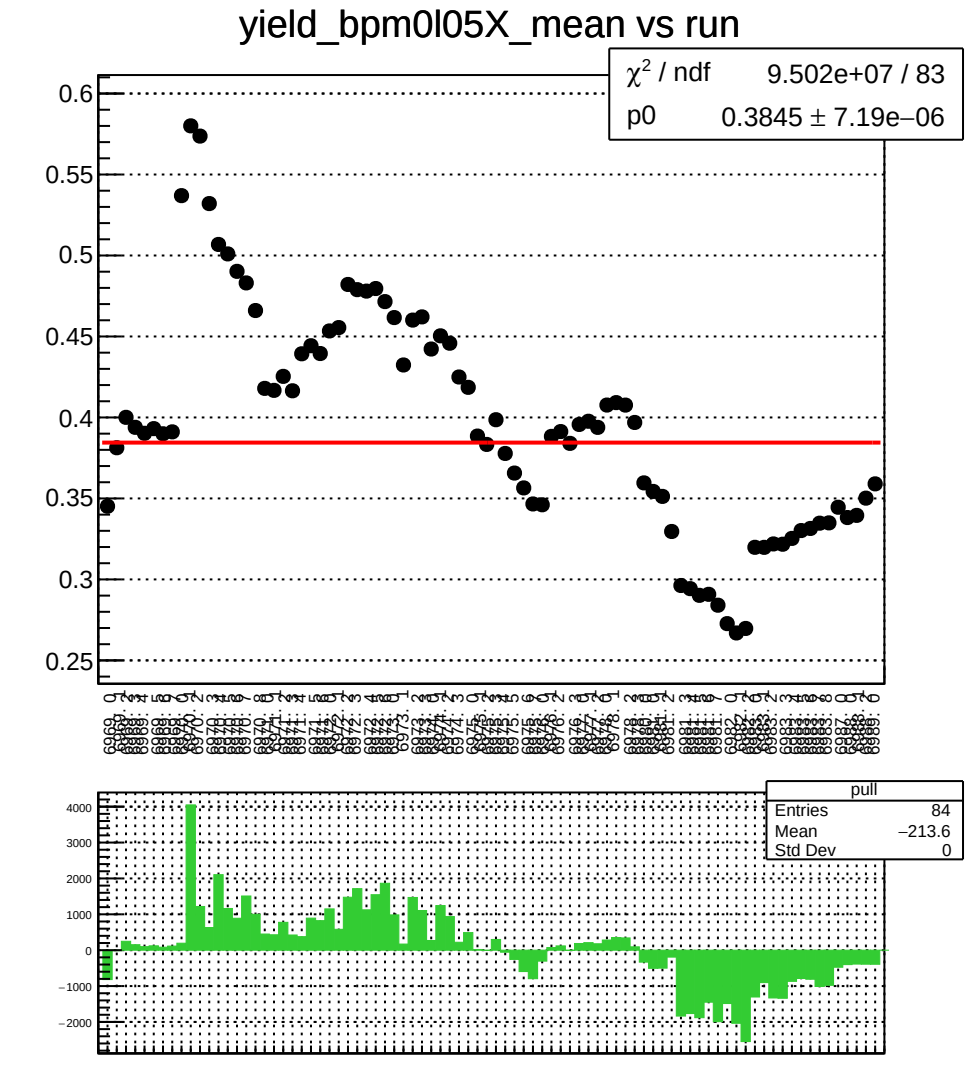

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

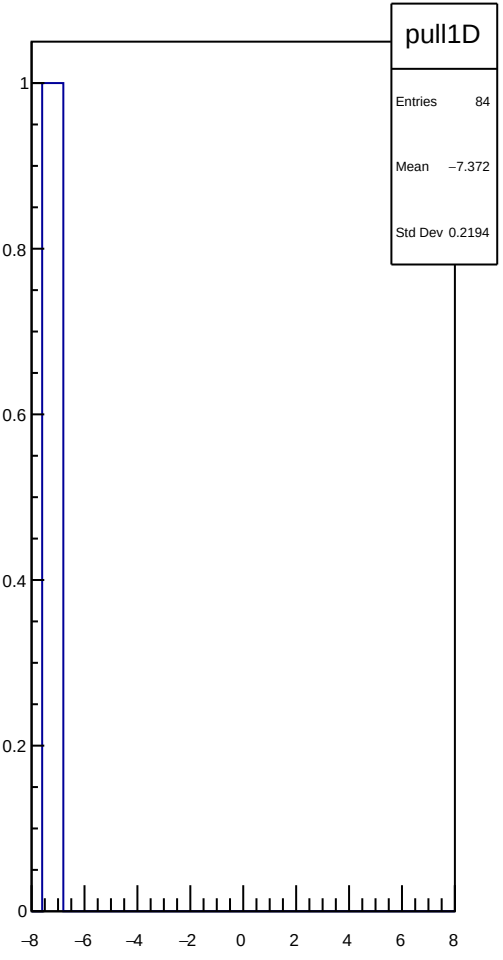

yield_bpm0l04X_rms vs run
χ² / ndf 1.642e+05 / 83
p0 0.009795 ± 7.973e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

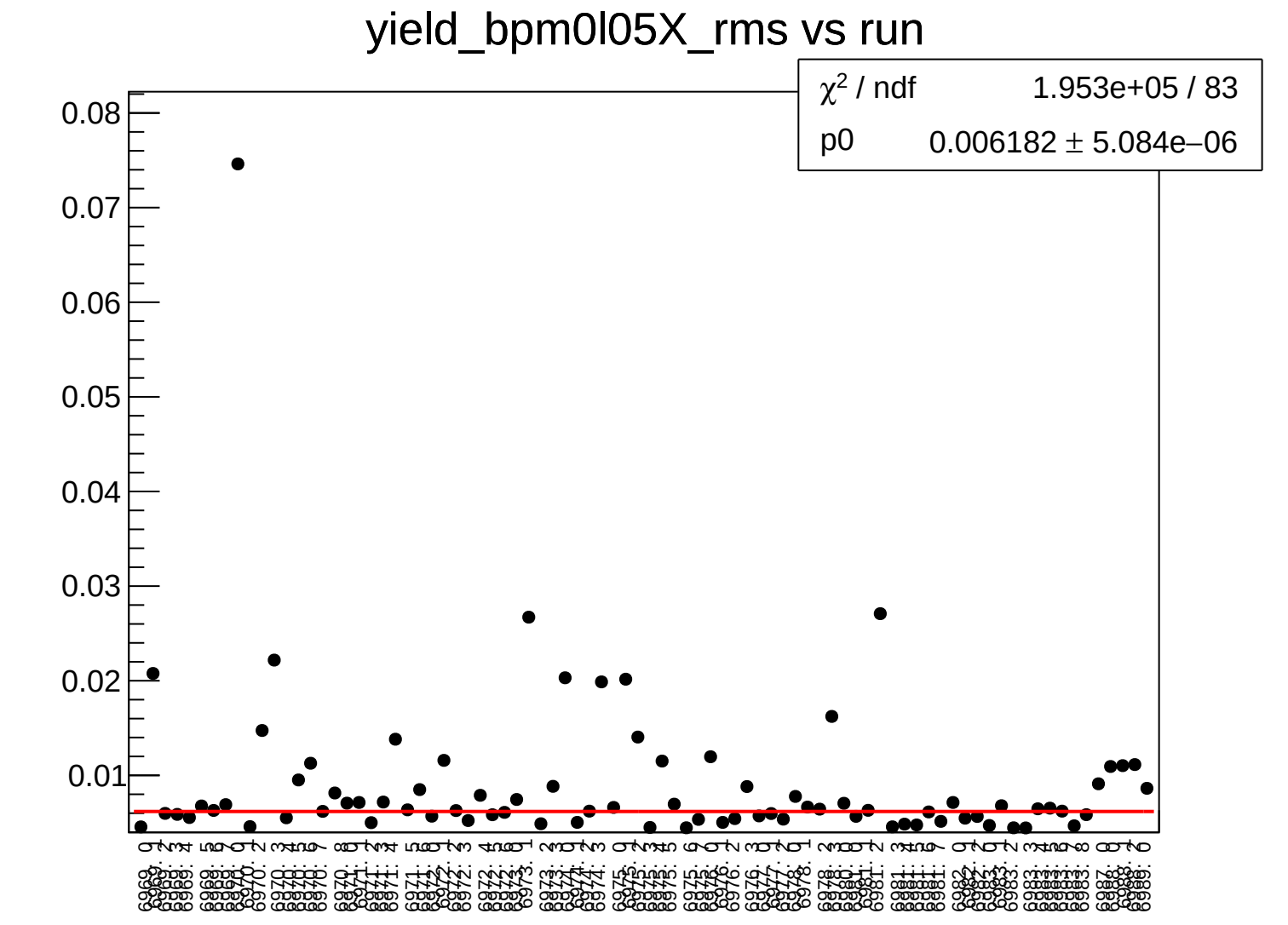

yield_bpm0l04Y_mean vs run
χ² / ndf 2.564e+07 / 83
p0 −0.03264 ± 8.681e−06
pull
Entries 84
Mean 9.516
Std Dev 24.76

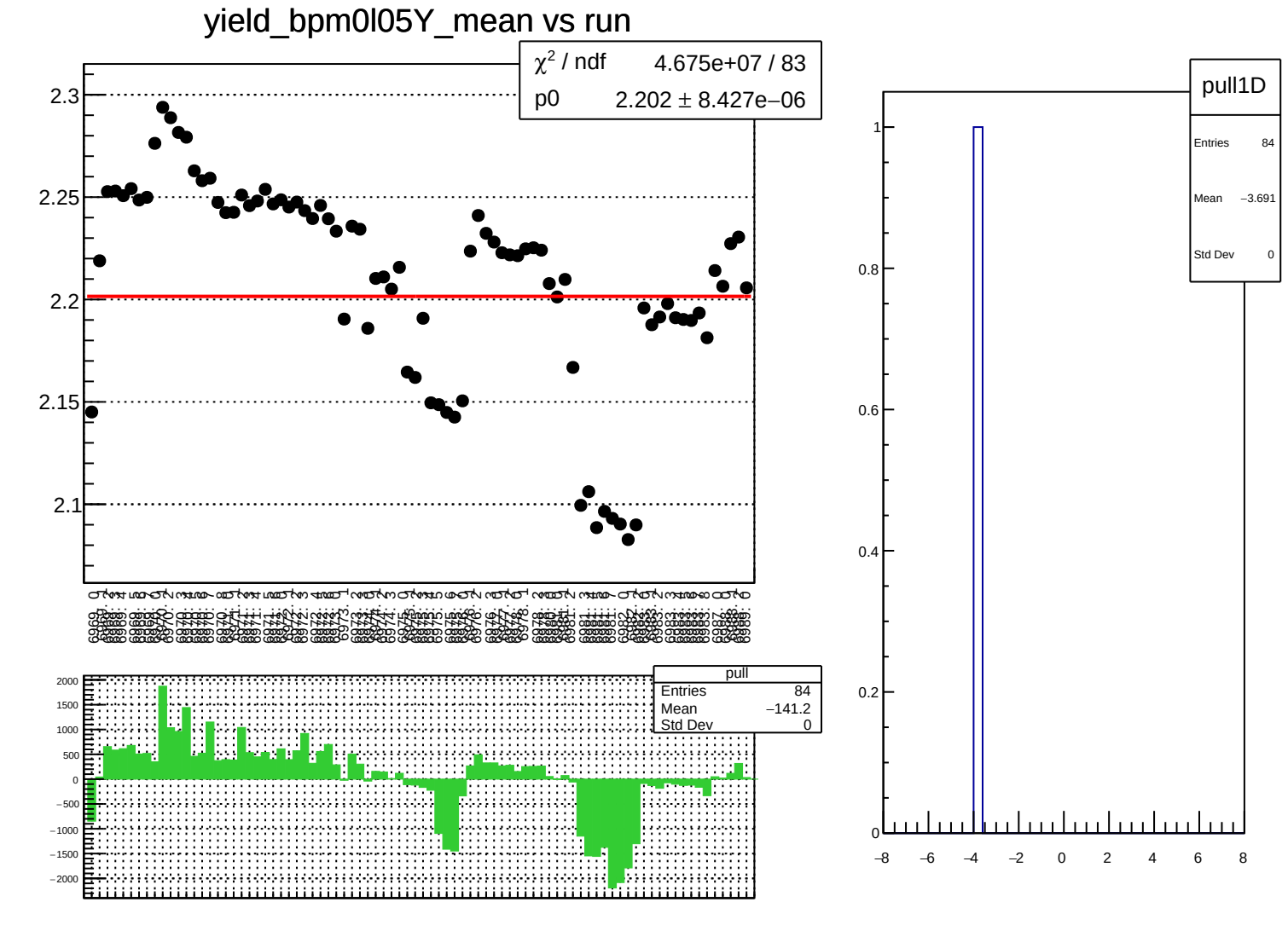

pull1D
Entries 84
Mean 0.7255
Std Dev 0.1226

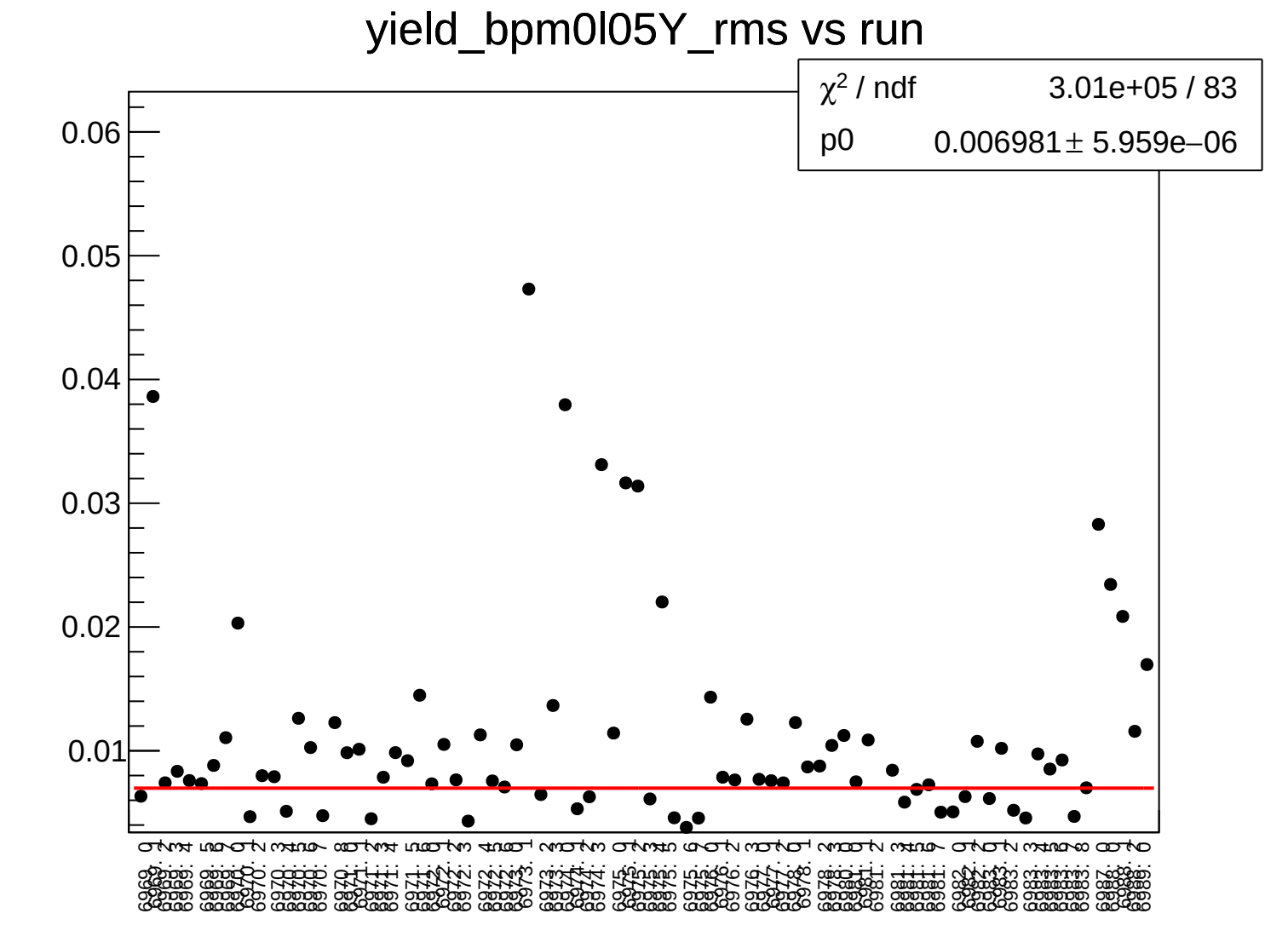

yield_bpm0l04Y_rms vs run
χ² / ndf 2.859e+05 / 83
p0 0.007231 ± 6.138e−06
0.05
0.04
0.03
0.02
0.01

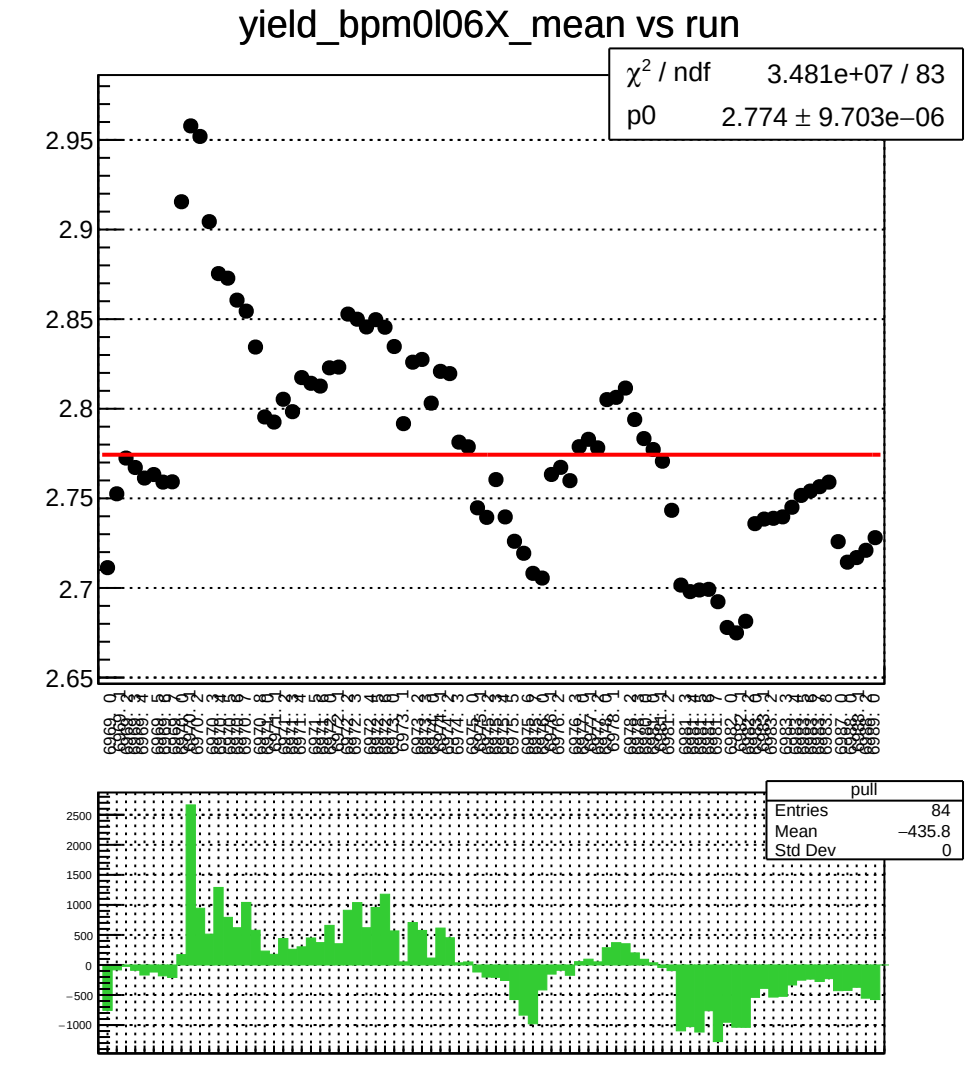

yield_bpm0l05X_mean vs run
χ² / ndf 9.502e+07 / 83
p0 0.3845 ± 7.19e−06
pull
Entries 84
Mean −213.6
Std Dev 0

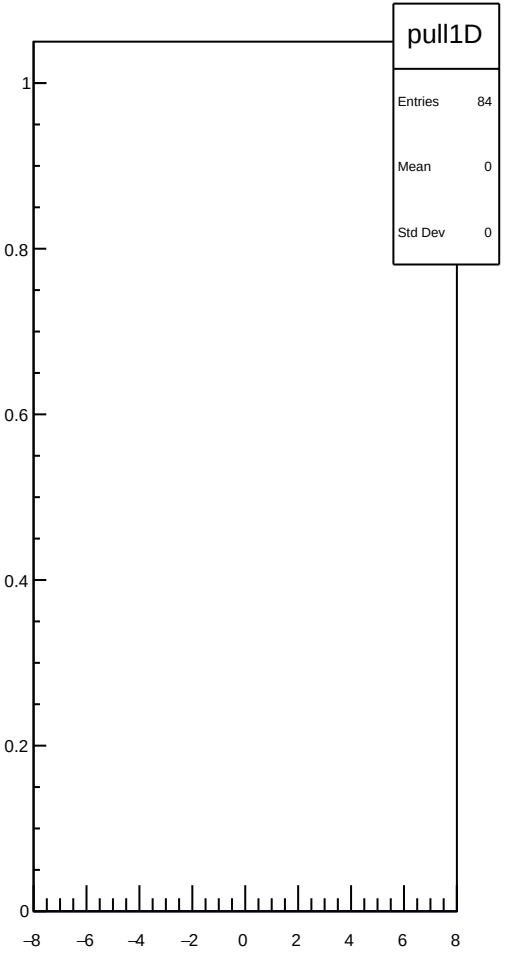

pull1D
Entries 84
Mean −7.372
Std Dev 0.2194

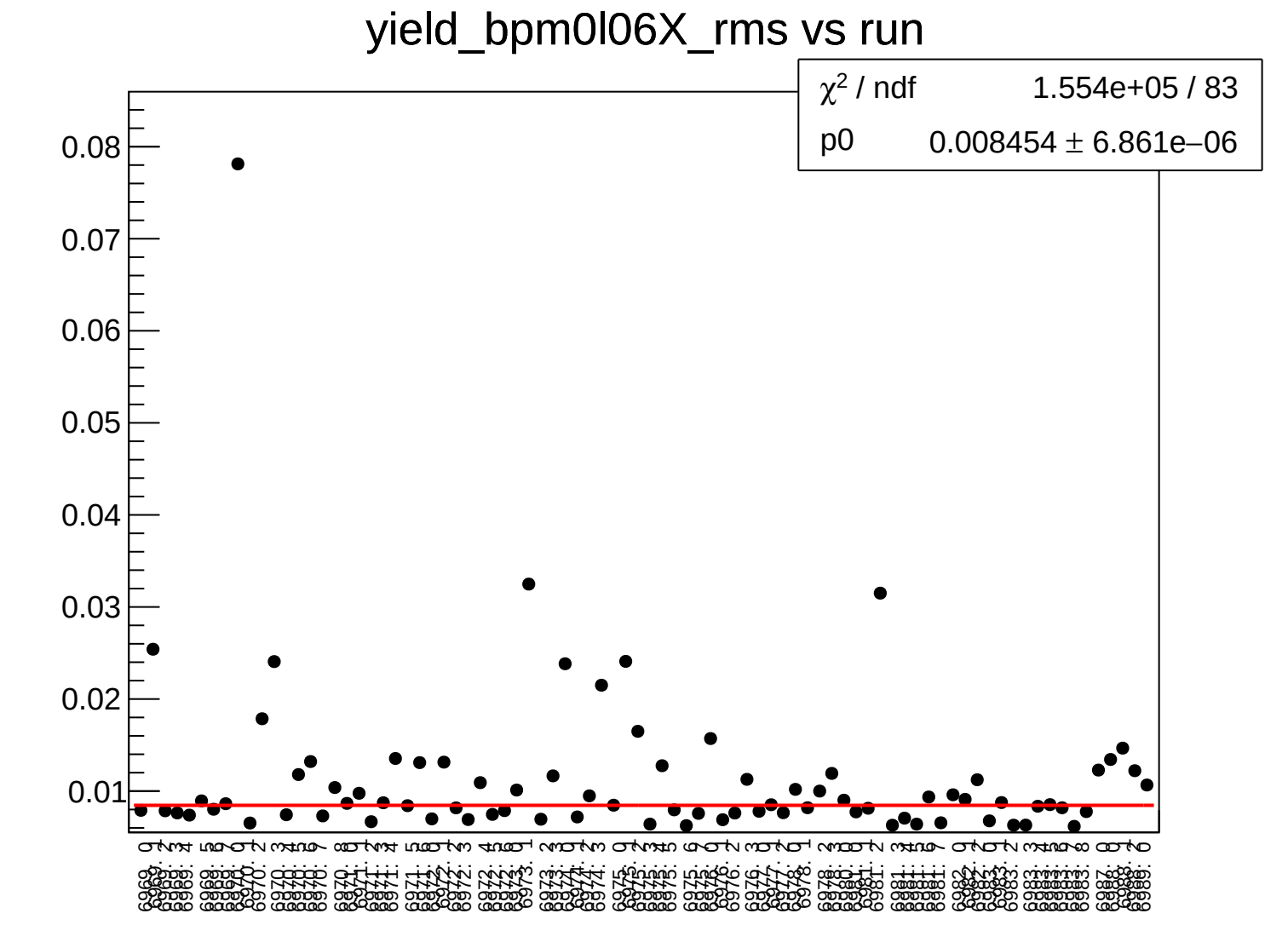

yield_bpm0l05X_rms vs run
χ² / ndf 1.953e+05 / 83
p0 0.006182 ± 5.084e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

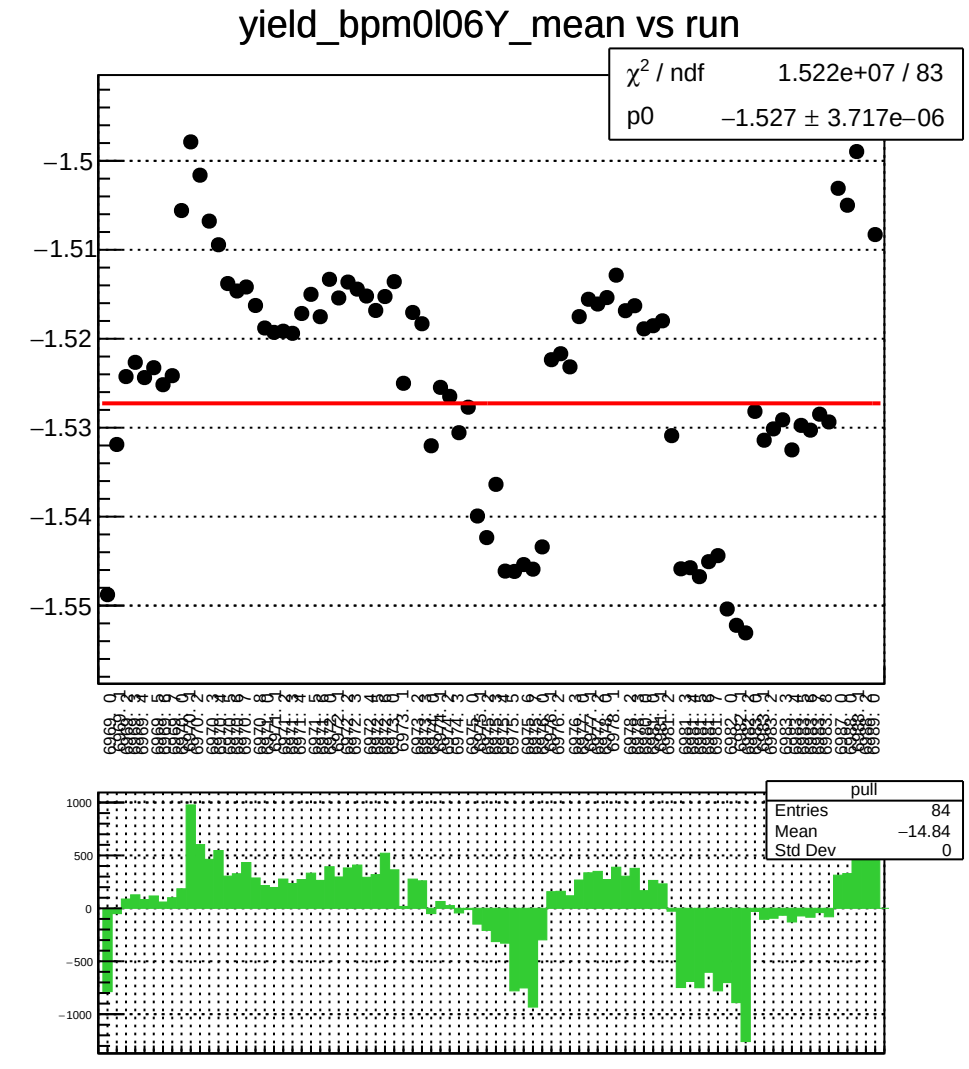

yield_bpm0l05Y_mean vs run
χ² / ndf 4.675e+07 / 83
p0 2.202 ± 8.427e−06
2.3
2.25
2.2
2.15
2.1
pull
Entries 84
Mean −141.2
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 84
Mean −3.691
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

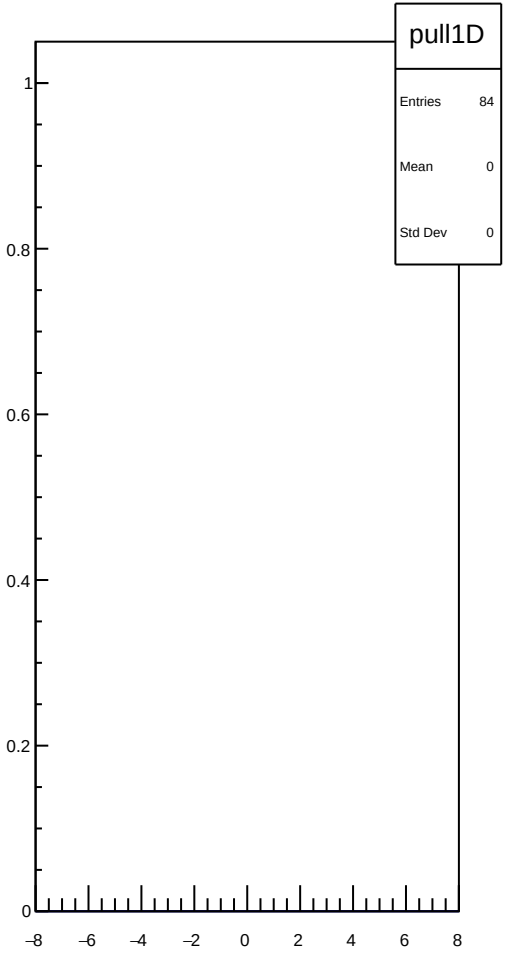

yield_bpm0l05Y_rms vs run
χ² / ndf 3.01e+05 / 83
p0 0.006981 ± 5.959e−06
0.06
0.05
0.04
0.03
0.02
0.01

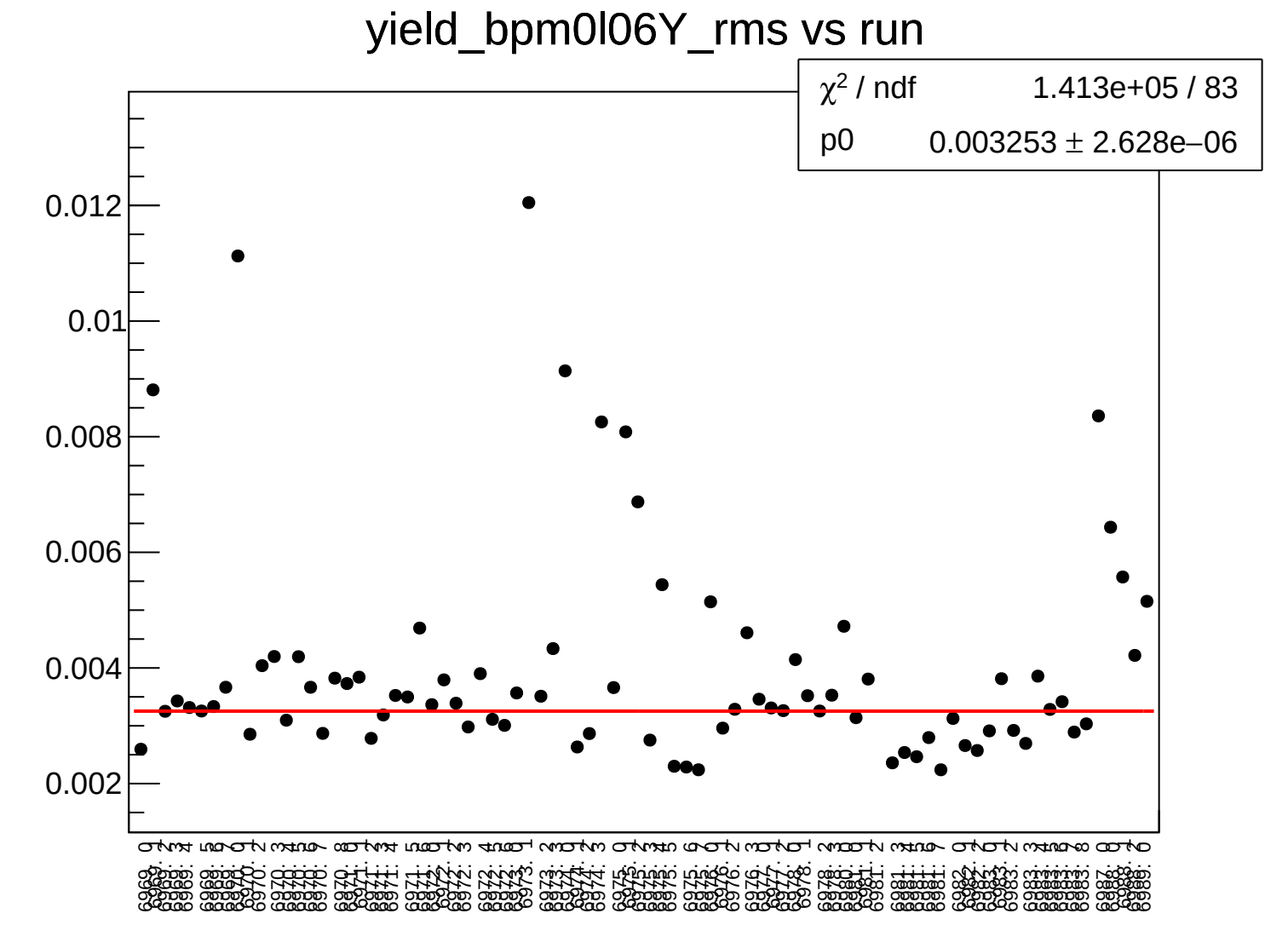

yield_bpm0l06X_mean vs run
χ² / ndf 3.481e+07 / 83
p0 2.774 ± 9.703e−06
2.95
2.9
2.85
2.8
2.75
2.7
2.65
pull
Entries 84
Mean −435.8
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

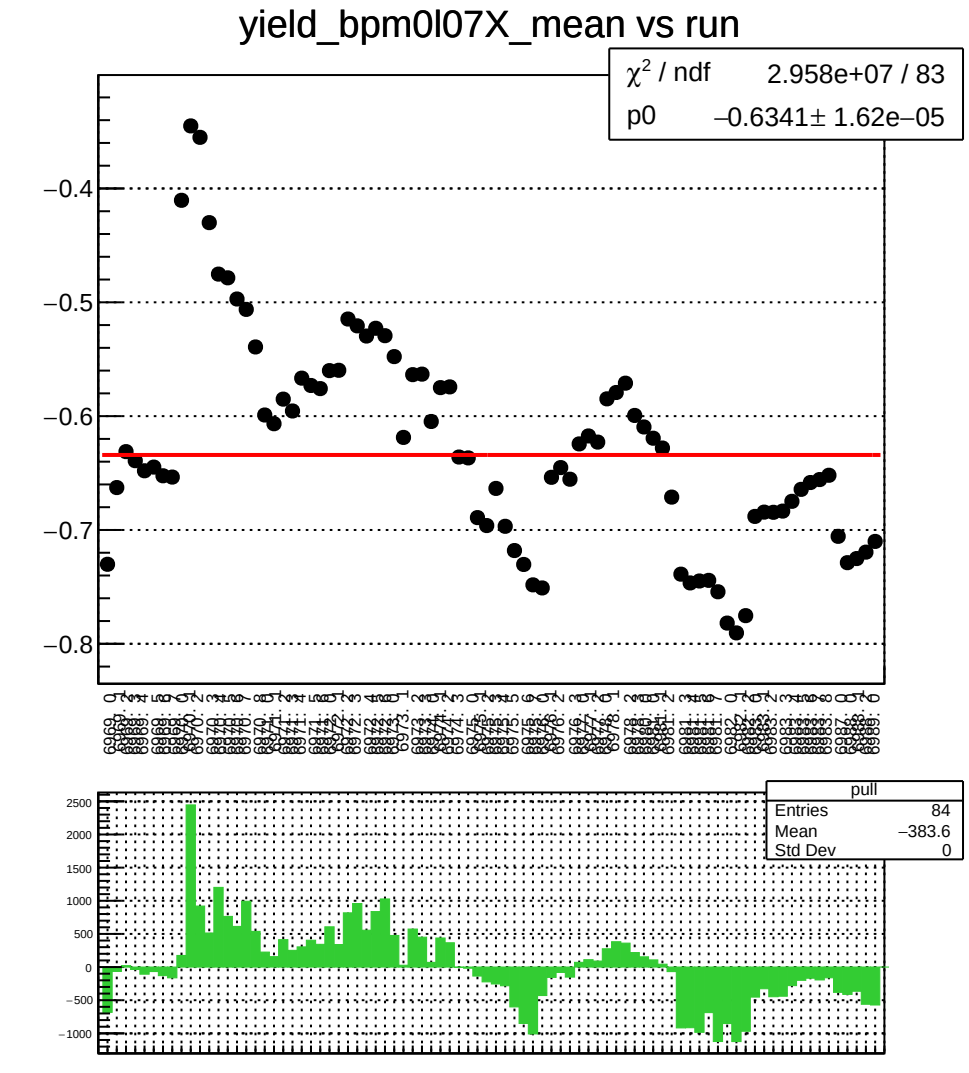

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

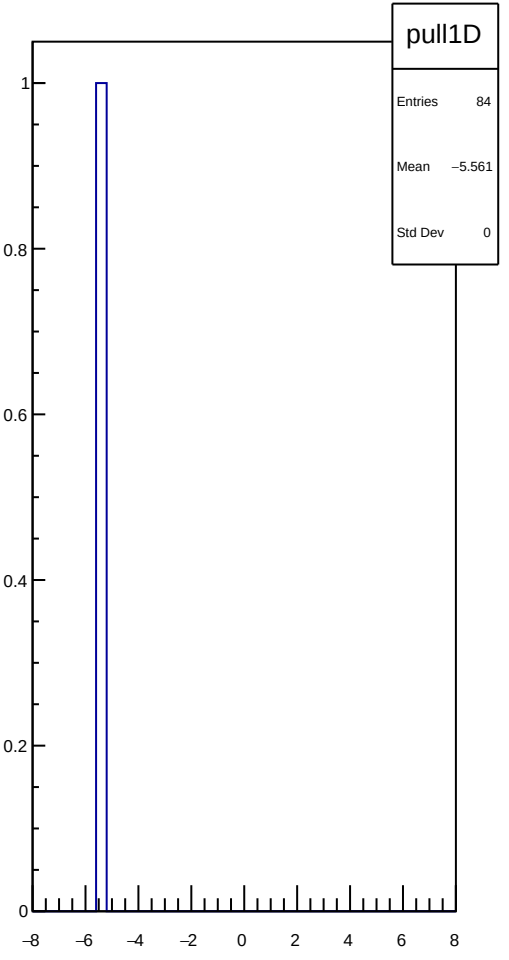

yield_bpm0l06X_rms vs run
χ² / ndf 1.554e+05 / 83
p0 0.008454 ± 6.861e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

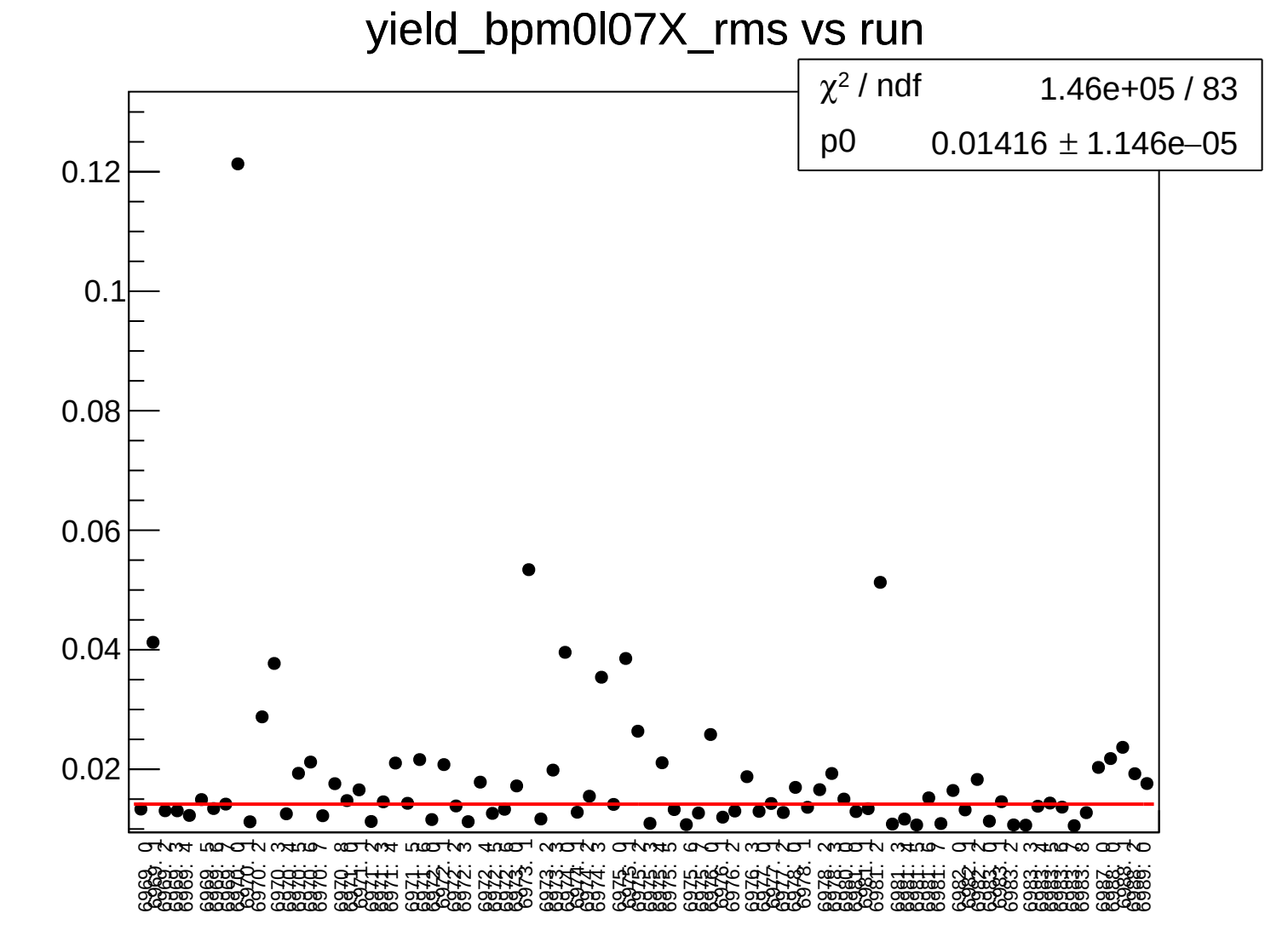

yield_bpm0l06Y_mean vs run
χ² / ndf 1.522e+07 / 83
p0 −1.527 ± 3.717e−06
−1.5
−1.51
−1.52
−1.53
−1.54
−1.55
pull
Entries 84
Mean −14.84
Std Dev 0
1000
500
0
−500
−1000

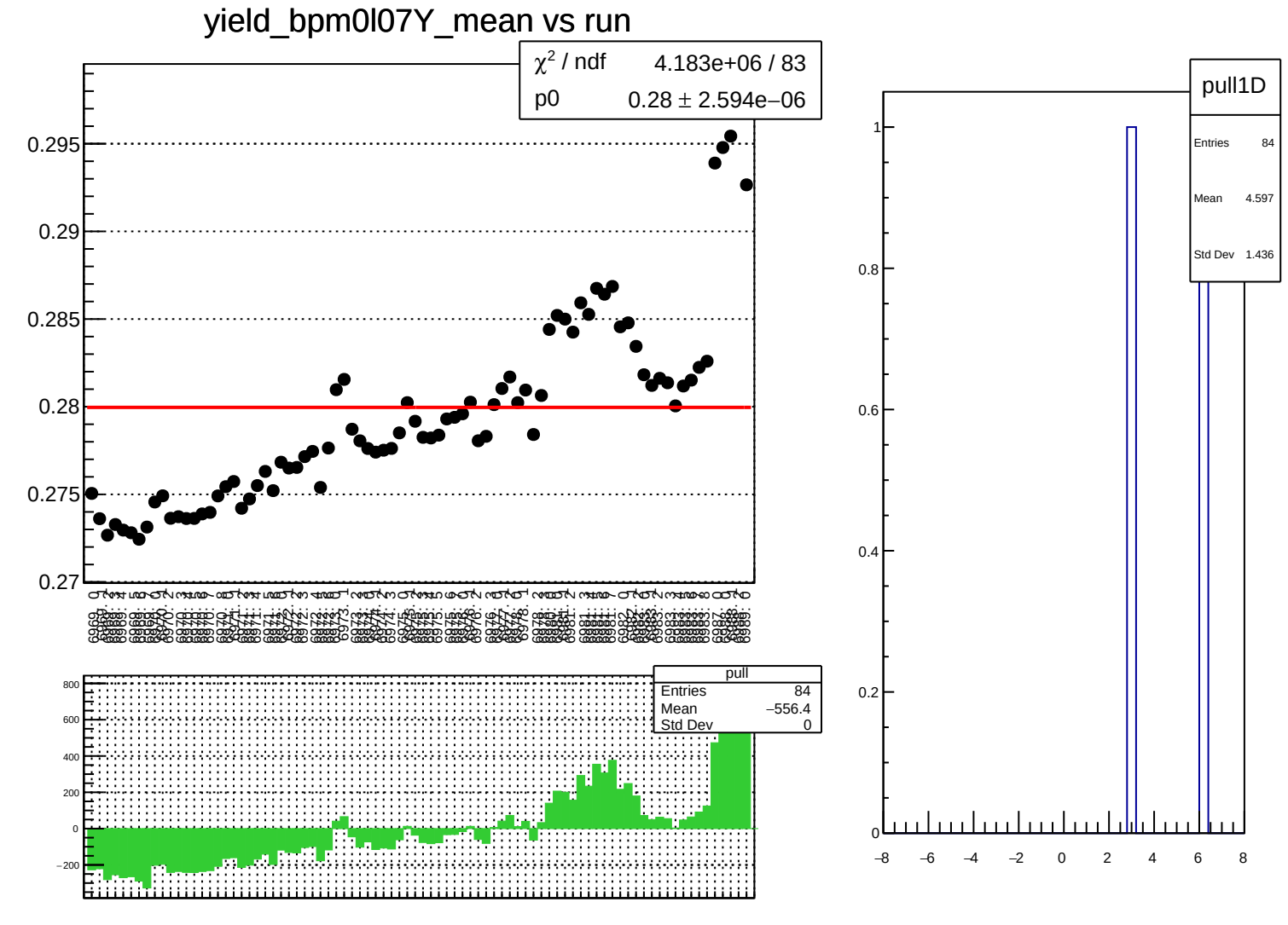

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

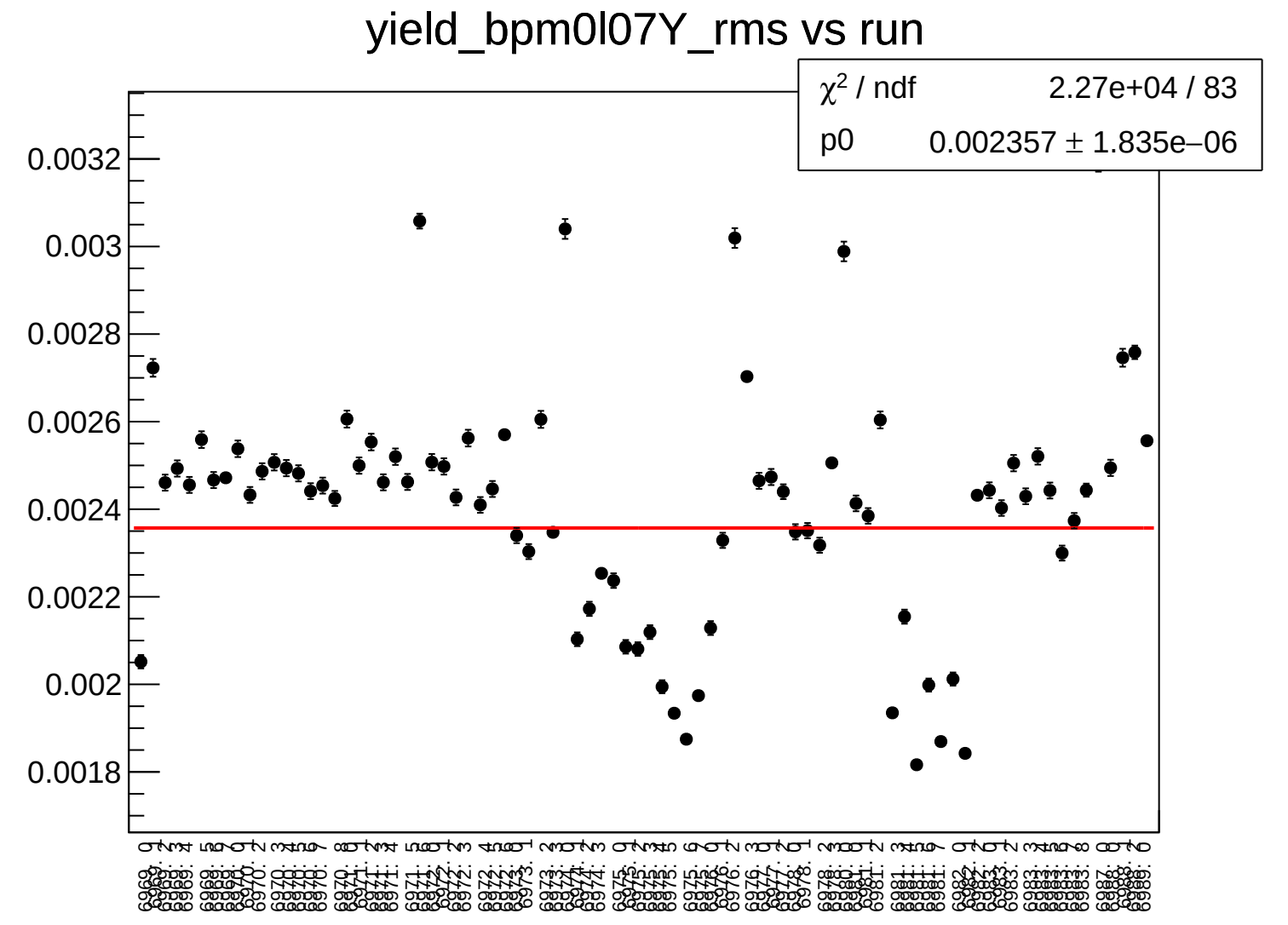

yield_bpm0l06Y_rms vs run
χ² / ndf 1.413e+05 / 83
p0 0.003253 ± 2.628e−06
0.012
0.01
0.008
0.006
0.004
0.002

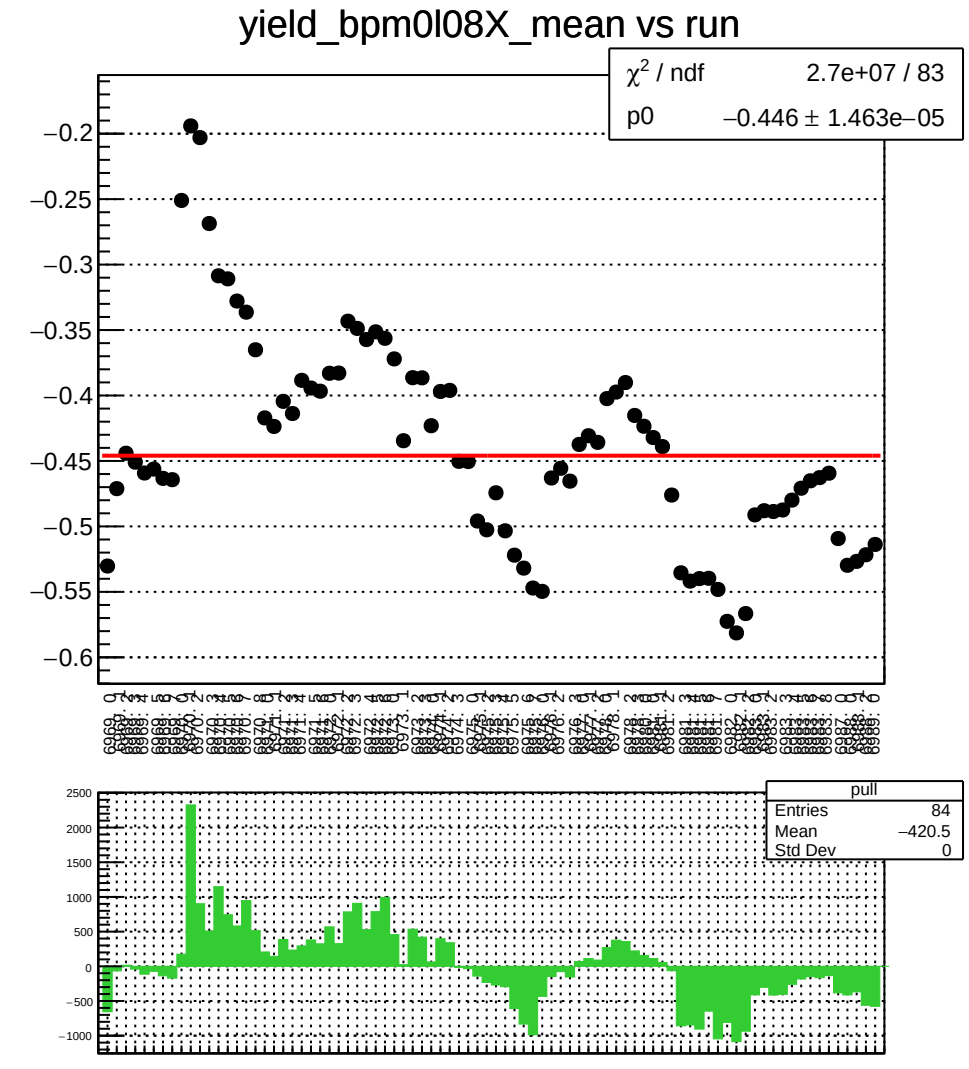

yield_bpm0l07X_mean vs run
χ² / ndf 2.958e+07 / 83
p0 −0.6341± 1.62e−05
−0.4
−0.5
−0.6
−0.7
−0.8
pull
Entries 84
Mean −383.6
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

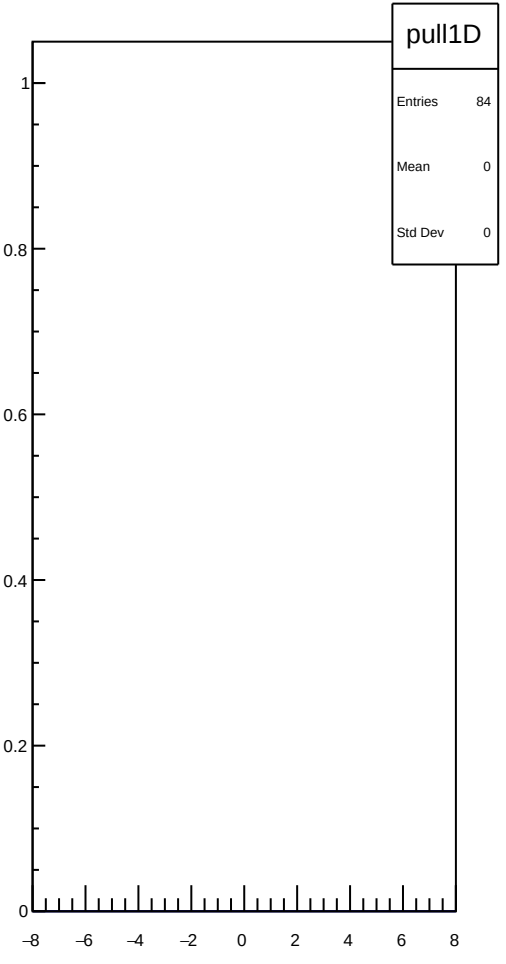

pull1D
Entries 84
Mean −5.561
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

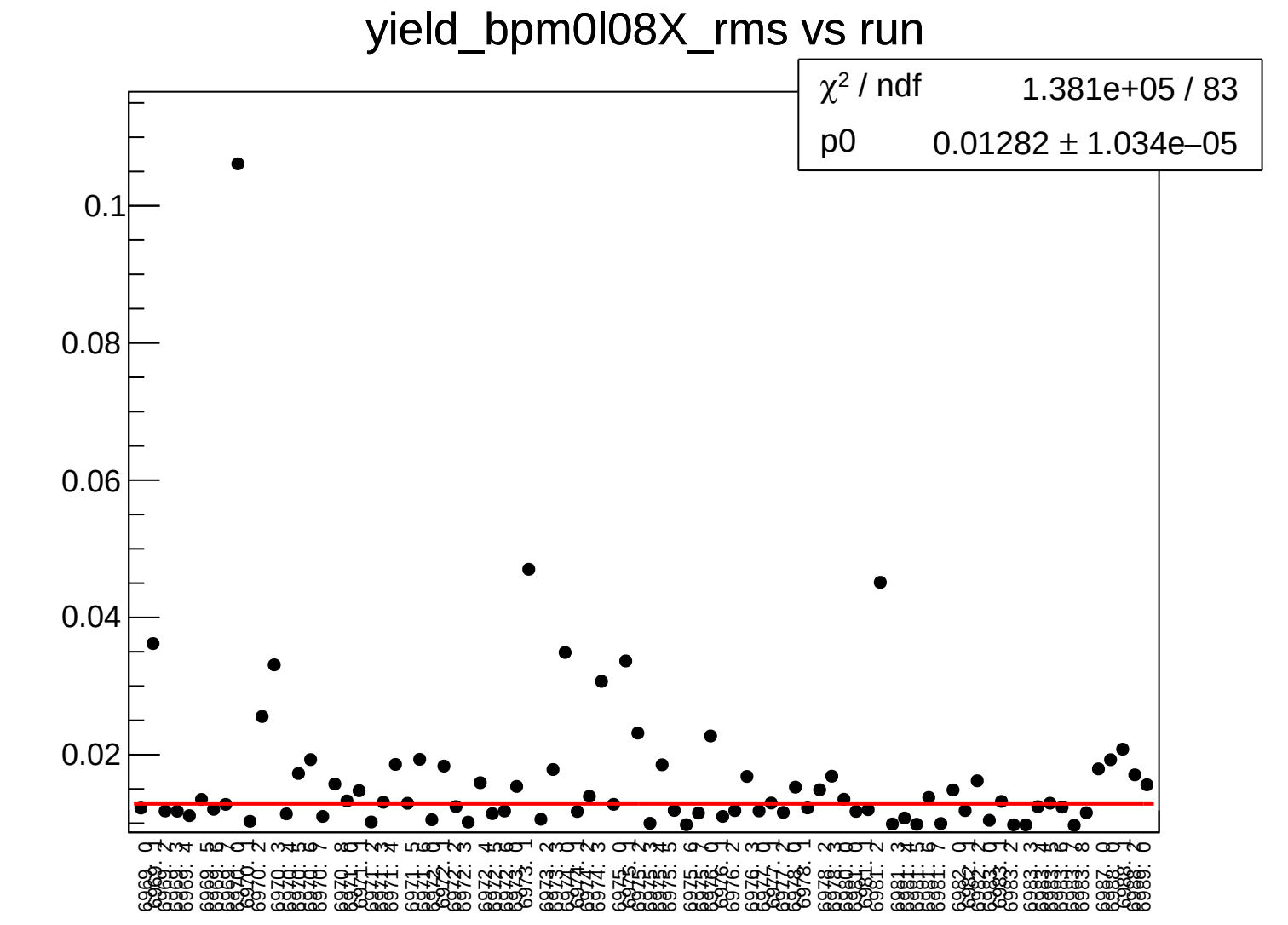

yield_bpm0l07X_rms vs run
χ² / ndf 1.46e+05 / 83
p0 0.01416 ± 1.146e–05
0.12
0.1
0.08
0.06
0.04
0.02

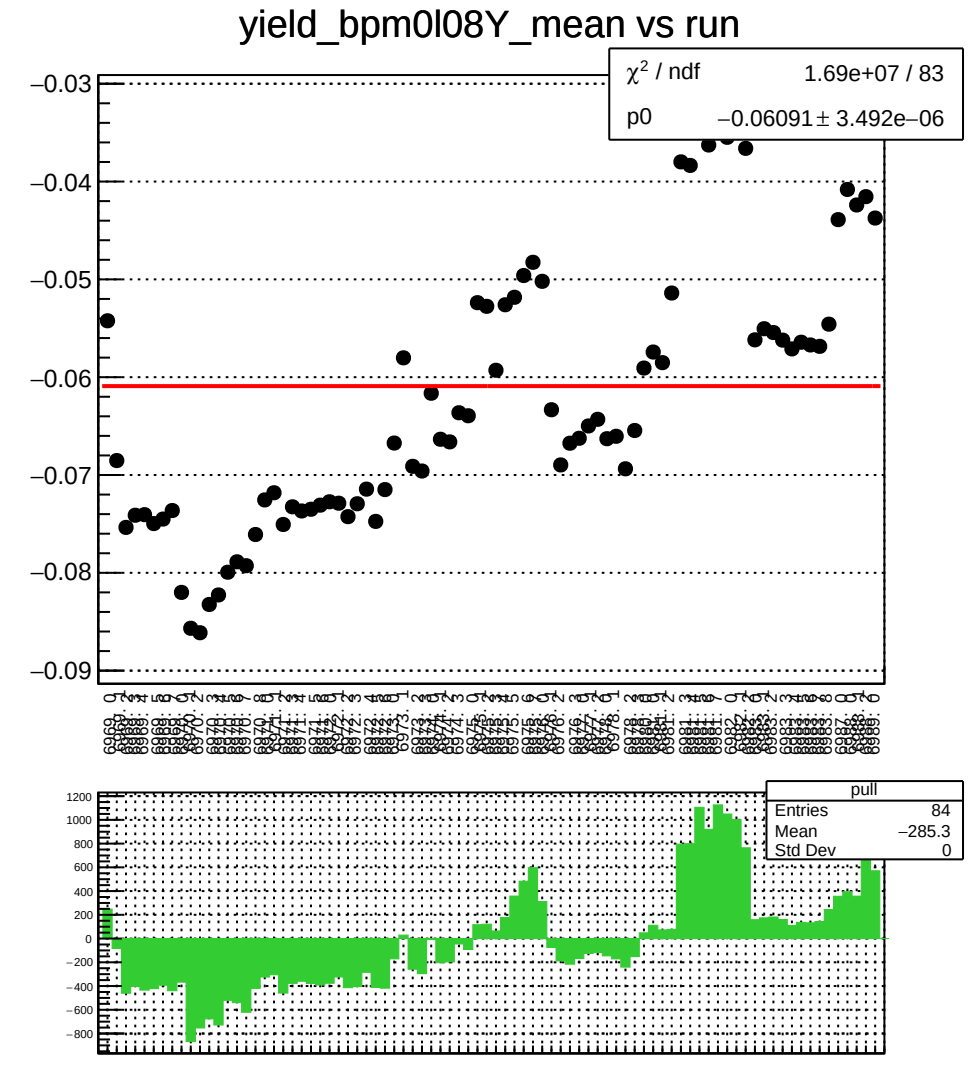

yield_bpm0l07Y_mean vs run
χ² / ndf 4.183e+06 / 83
p0 0.28 ± 2.594e−06
0.295
0.29
0.285
0.28
0.275
0.27
pull
Entries 84
Mean −556.4
Std Dev 0
800
600
400
200
0
−200
pull1D
Entries 84
Mean 4.597
Std Dev 1.436
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

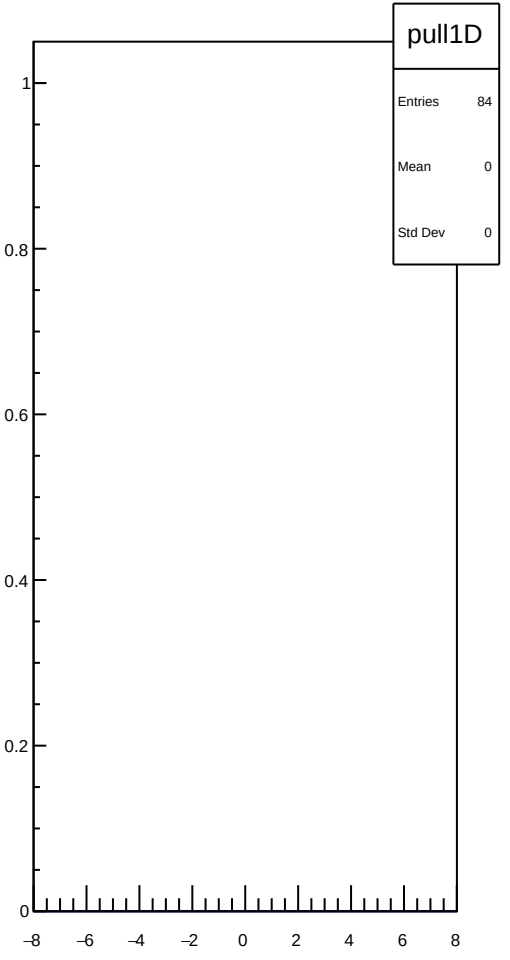

yield_bpm0l07Y_rms vs run
χ² / ndf 2.27e+04 / 83
p0 0.002357 ± 1.835e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

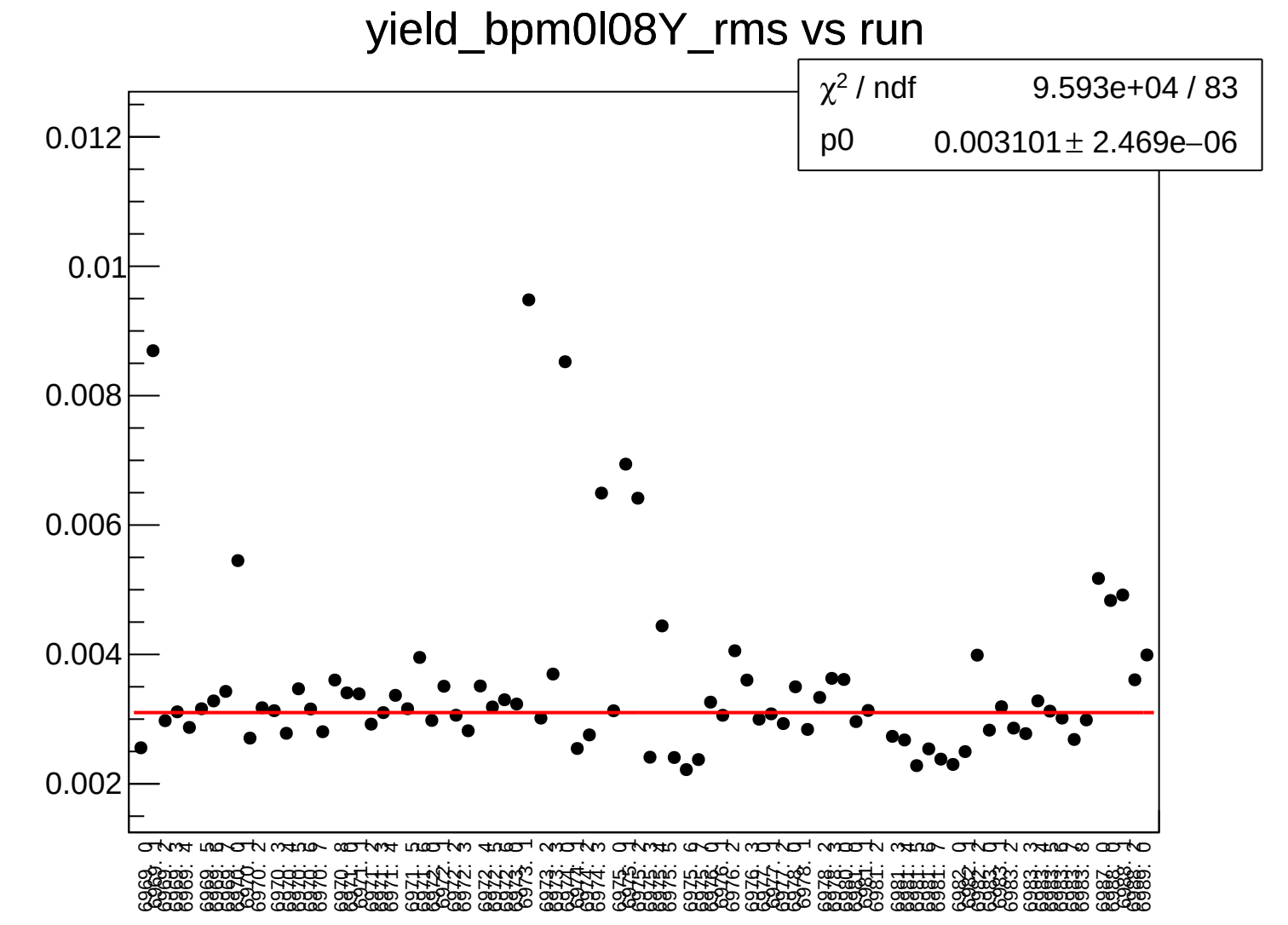

yield_bpm0l08X_mean vs run
χ² / ndf 2.7e+07 / 83
p0 −0.446 ± 1.463e−05
pull
Entries 84
Mean −420.5
Std Dev 0

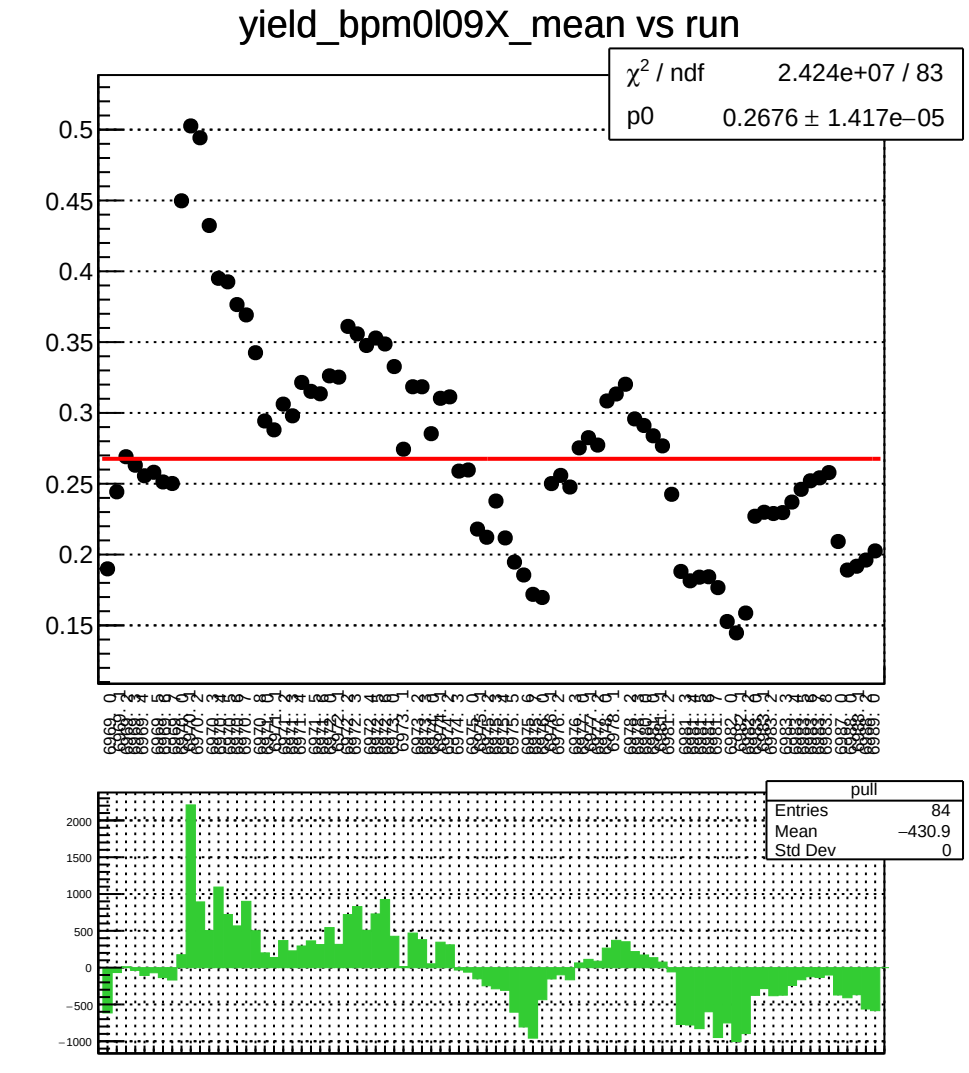

pull1D
Entries 84
Mean 0
Std Dev 0

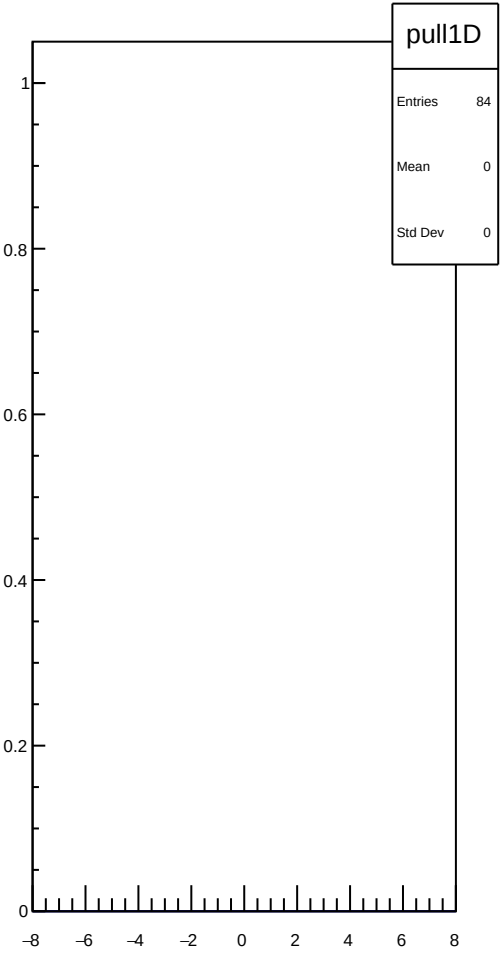

yield_bpm0l08X_rms vs run
χ² / ndf 1.381e+05 / 83
p0 0.01282 ± 1.034e–05
0.1
0.08
0.06
0.04
0.02

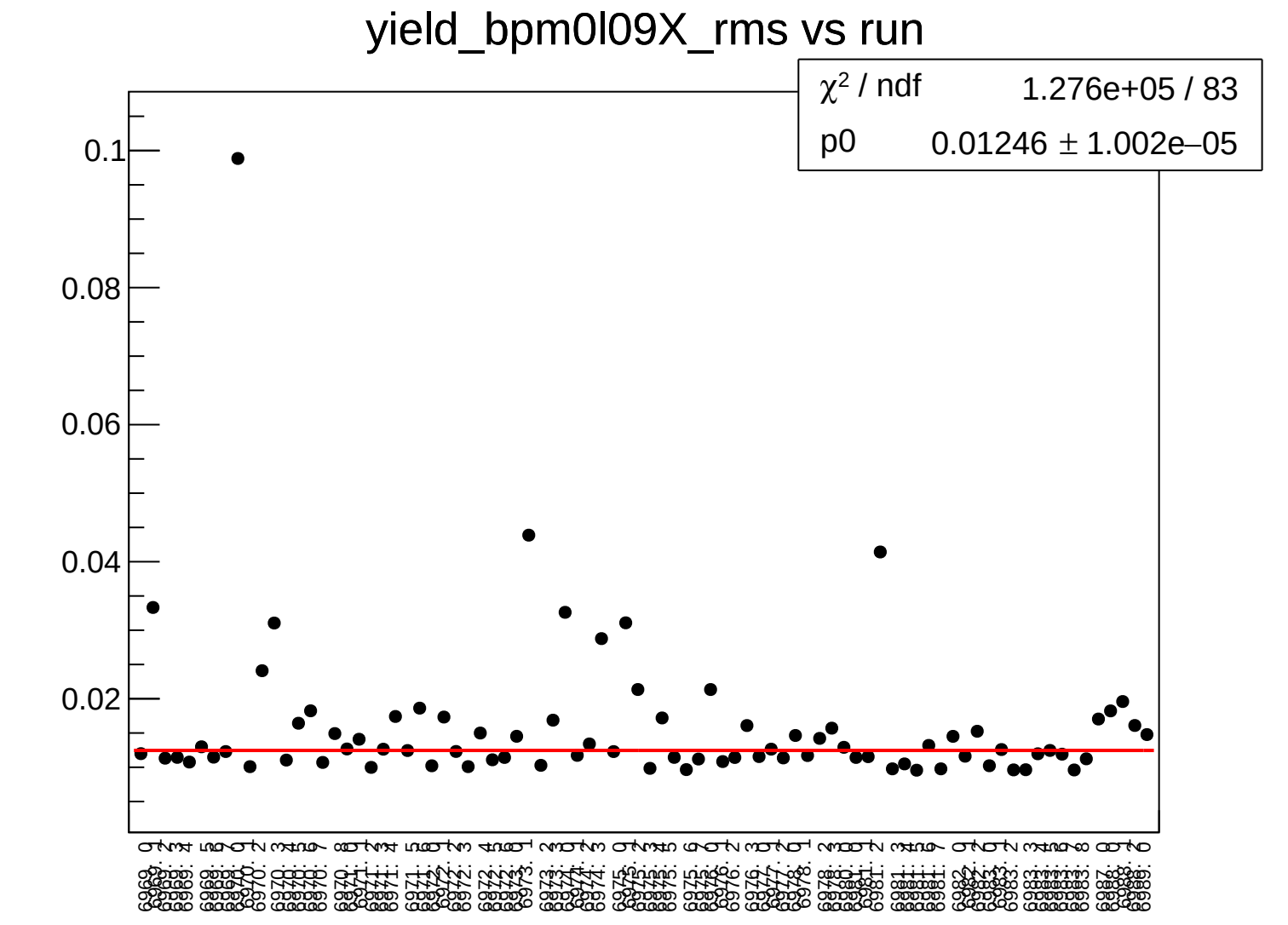

yield_bpm0l08Y_mean vs run
χ² / ndf 1.69e+07 / 83
p0 −0.06091 ± 3.492e−06
−0.03
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
pull
Entries 84
Mean −285.3
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

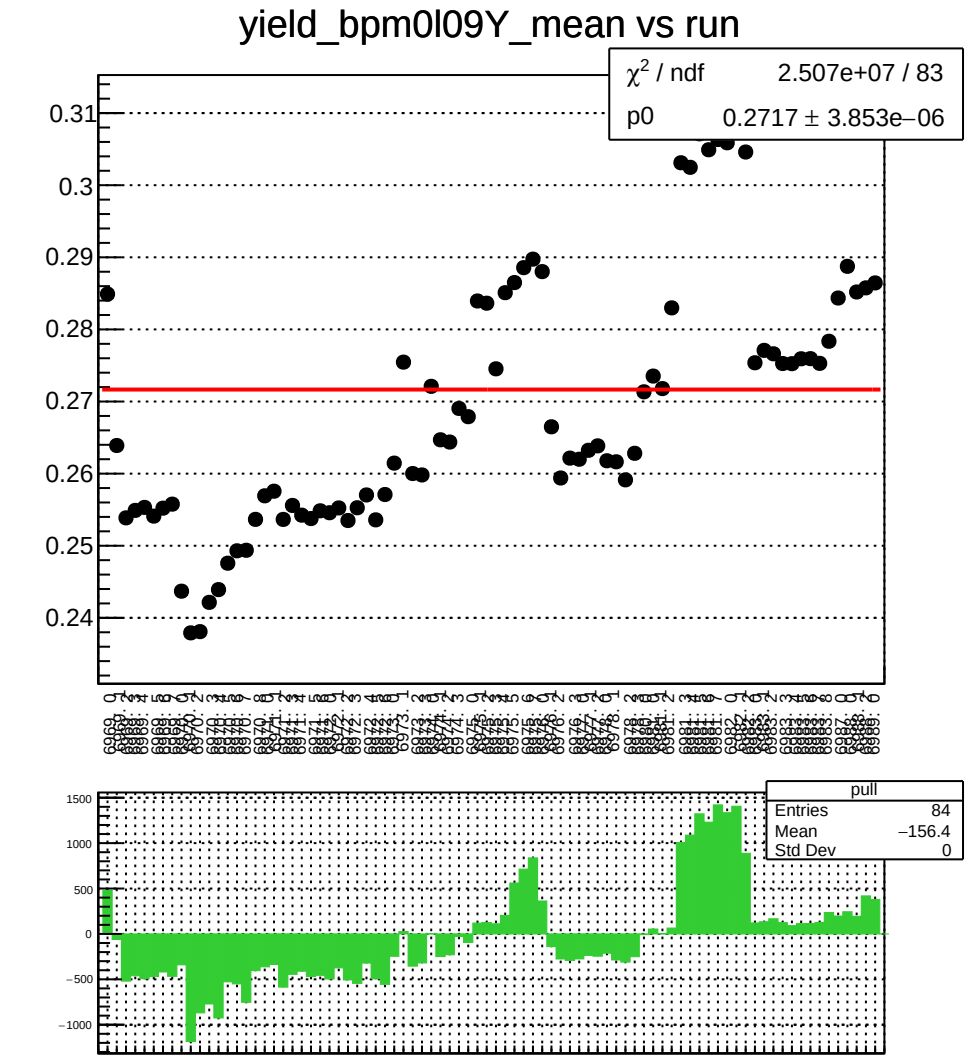

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

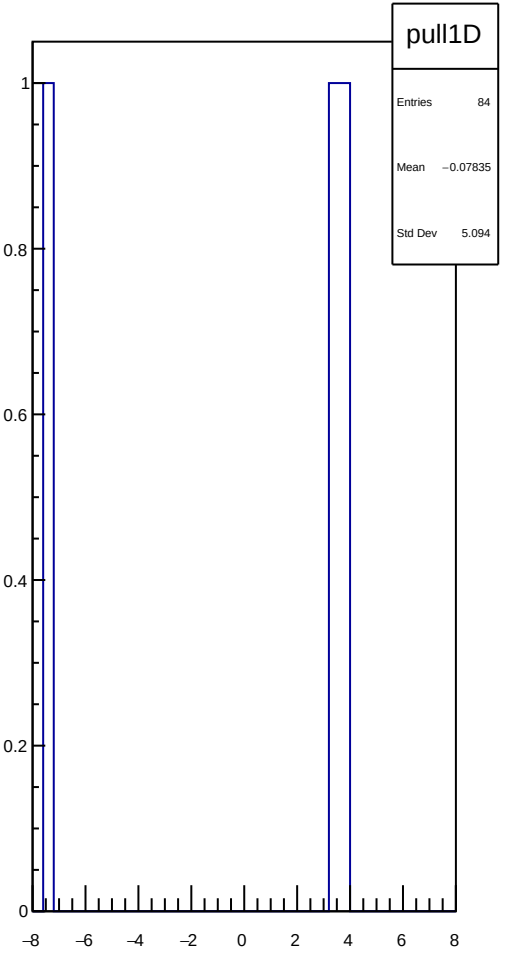

yield_bpm0l08Y_rms vs run
χ² / ndf 9.593e+04 / 83
p0 0.003101 ± 2.469e−06
0.012
0.01
0.008
0.006
0.004
0.002

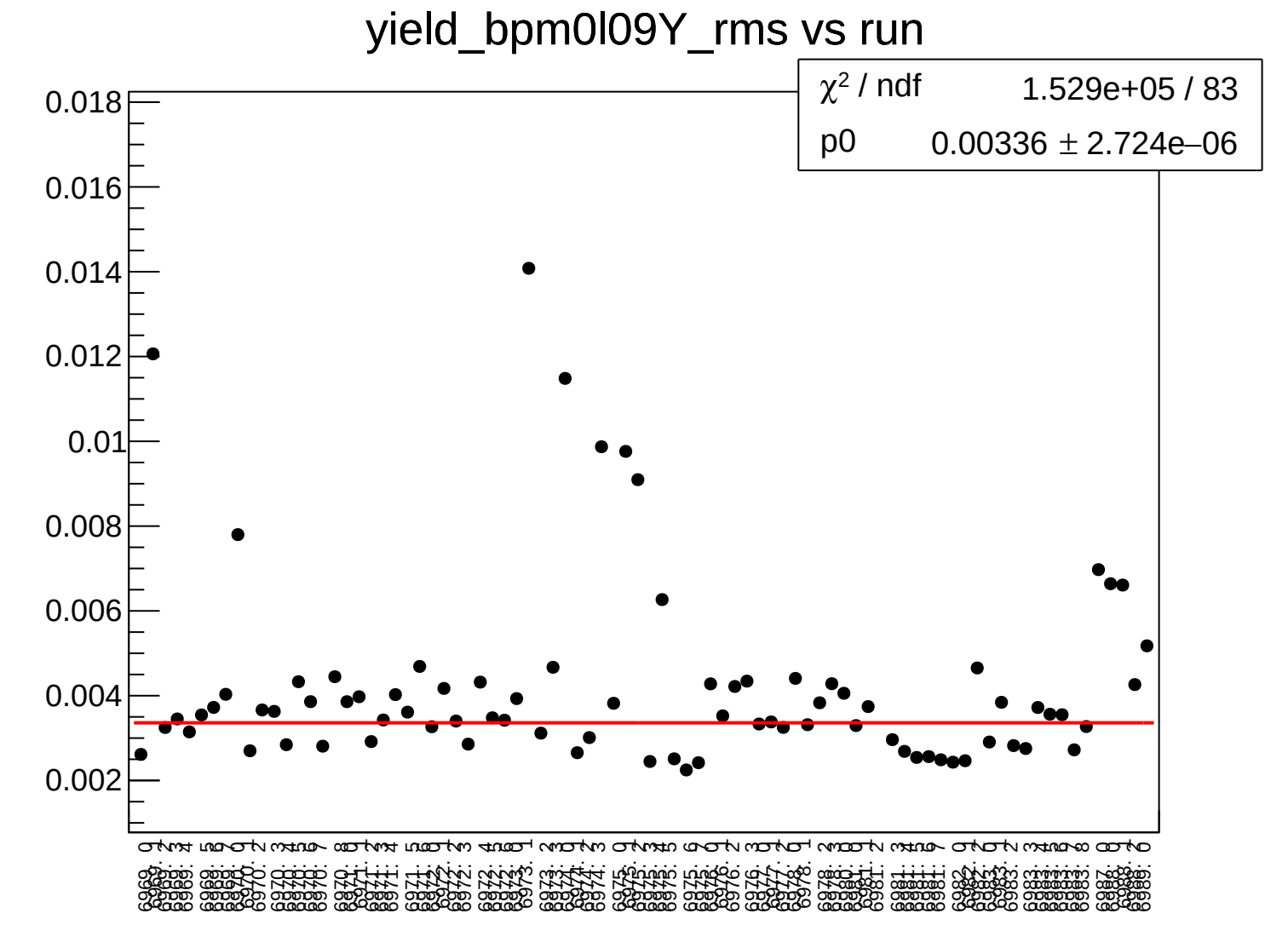

yield_bpm0l09X_mean vs run
χ² / ndf 2.424e+07 / 83
p0 0.2676 ± 1.417e−05
pull
Entries 84
Mean −430.9
Std Dev 0

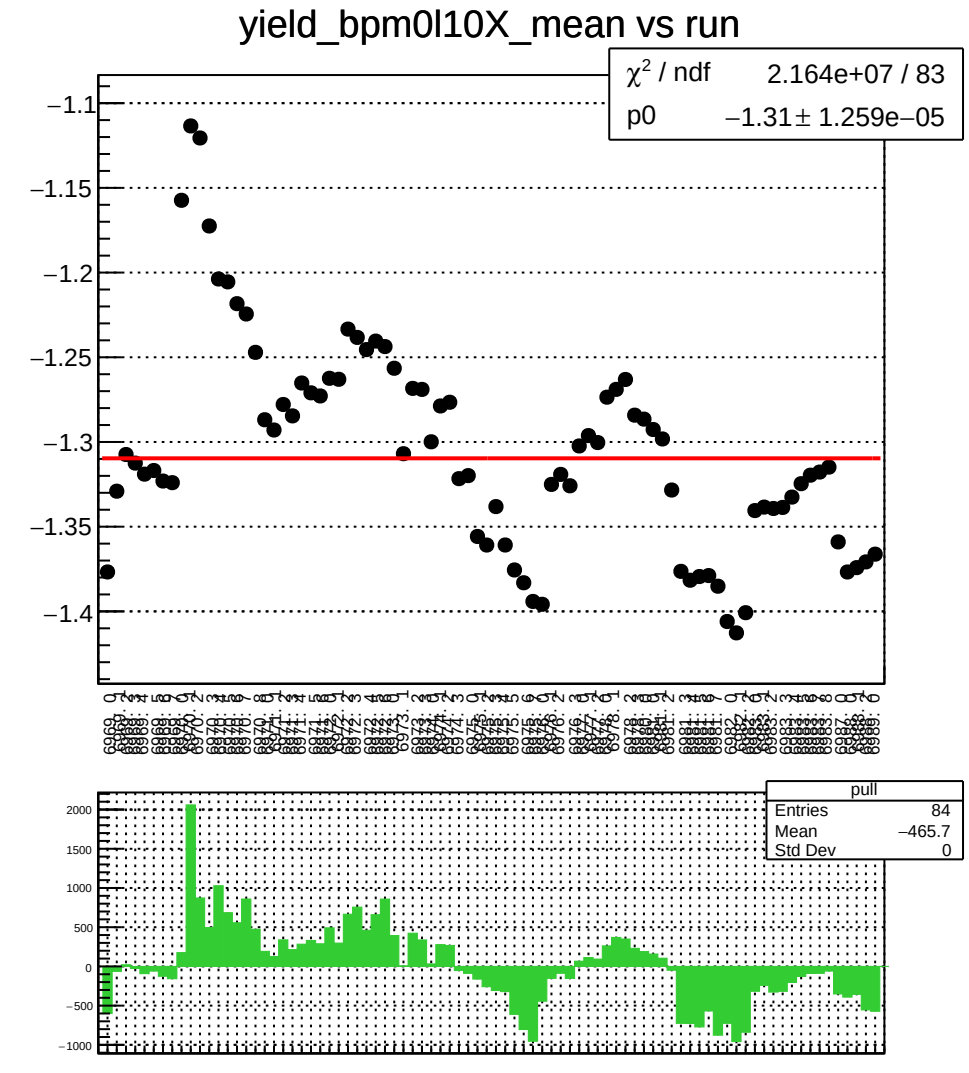

pull1D
Entries 84
Mean 0
Std Dev 0

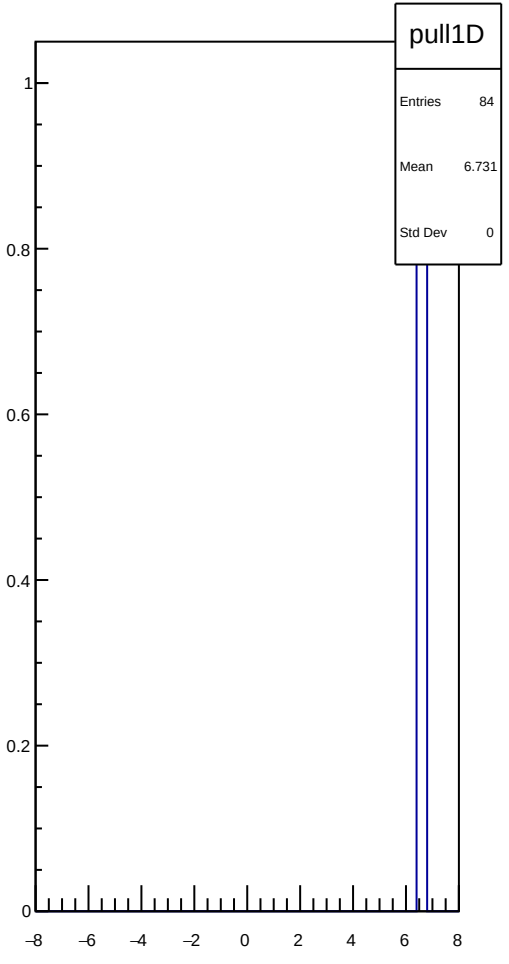

yield_bpm0l09X_rms vs run
χ² / ndf 1.276e+05 / 83
p0 0.01246 ± 1.002e–05
0.1
0.08
0.06
0.04
0.02

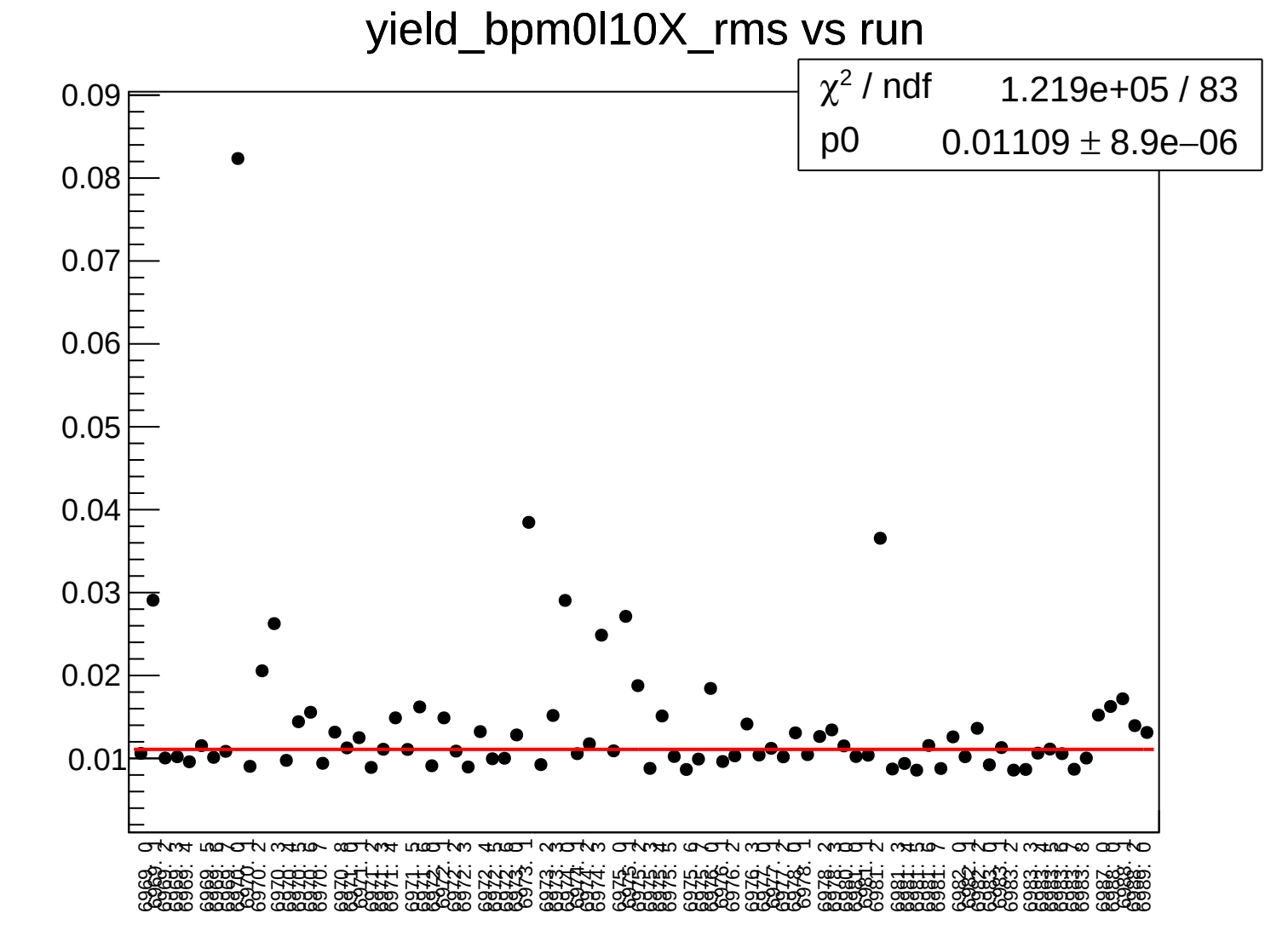

yield_bpm0l09Y_mean vs run
χ² / ndf 2.507e+07 / 83
p0 0.2717 ± 3.853e−06
0.31
0.3
0.29
0.28
0.27
0.26
0.25
0.24
pull
Entries 84
Mean −156.4
Std Dev 0
1500
1000
500
0
−500
−1000

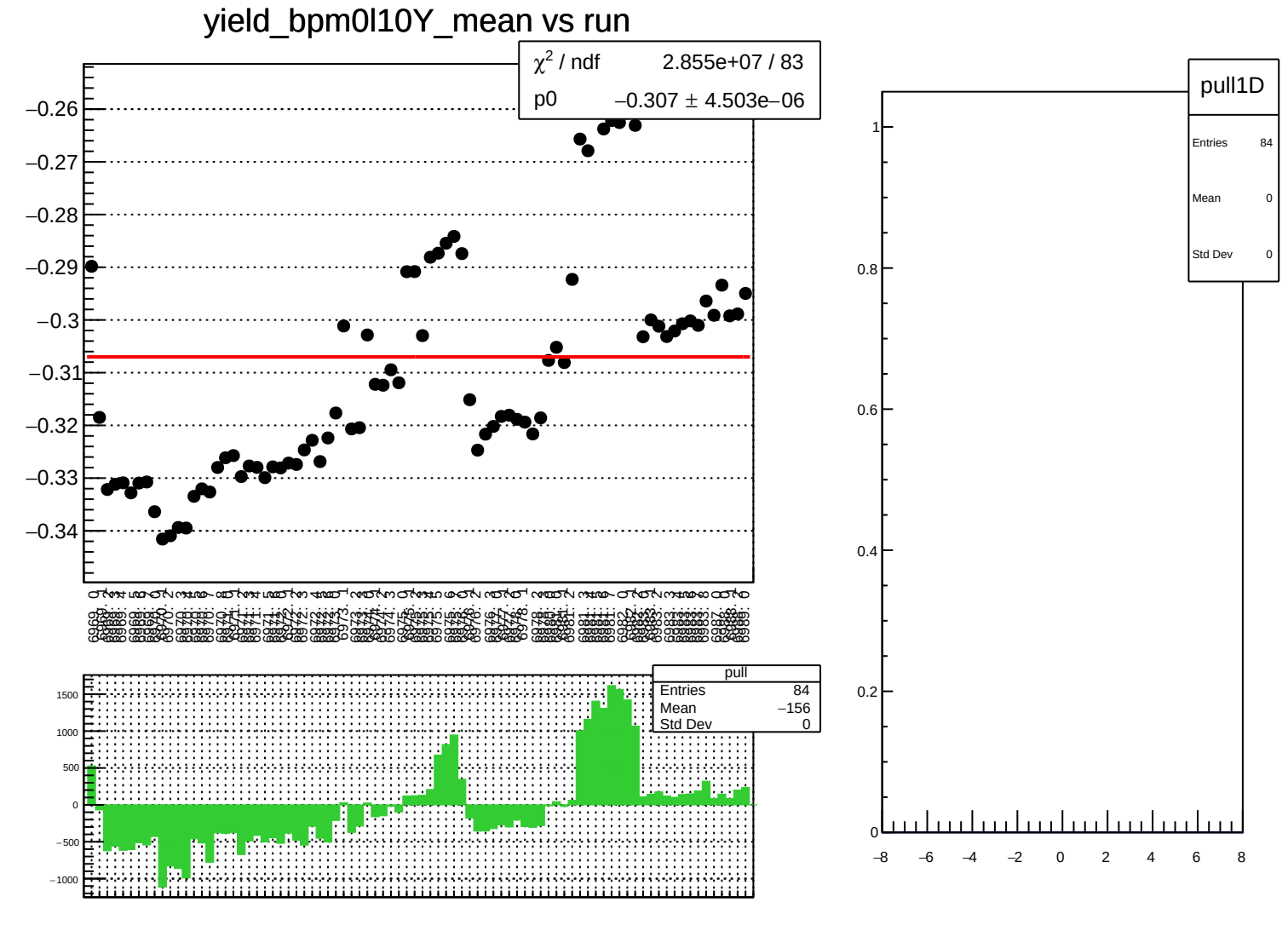

pull1D
Entries 84
Mean −0.07835
Std Dev 5.094
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

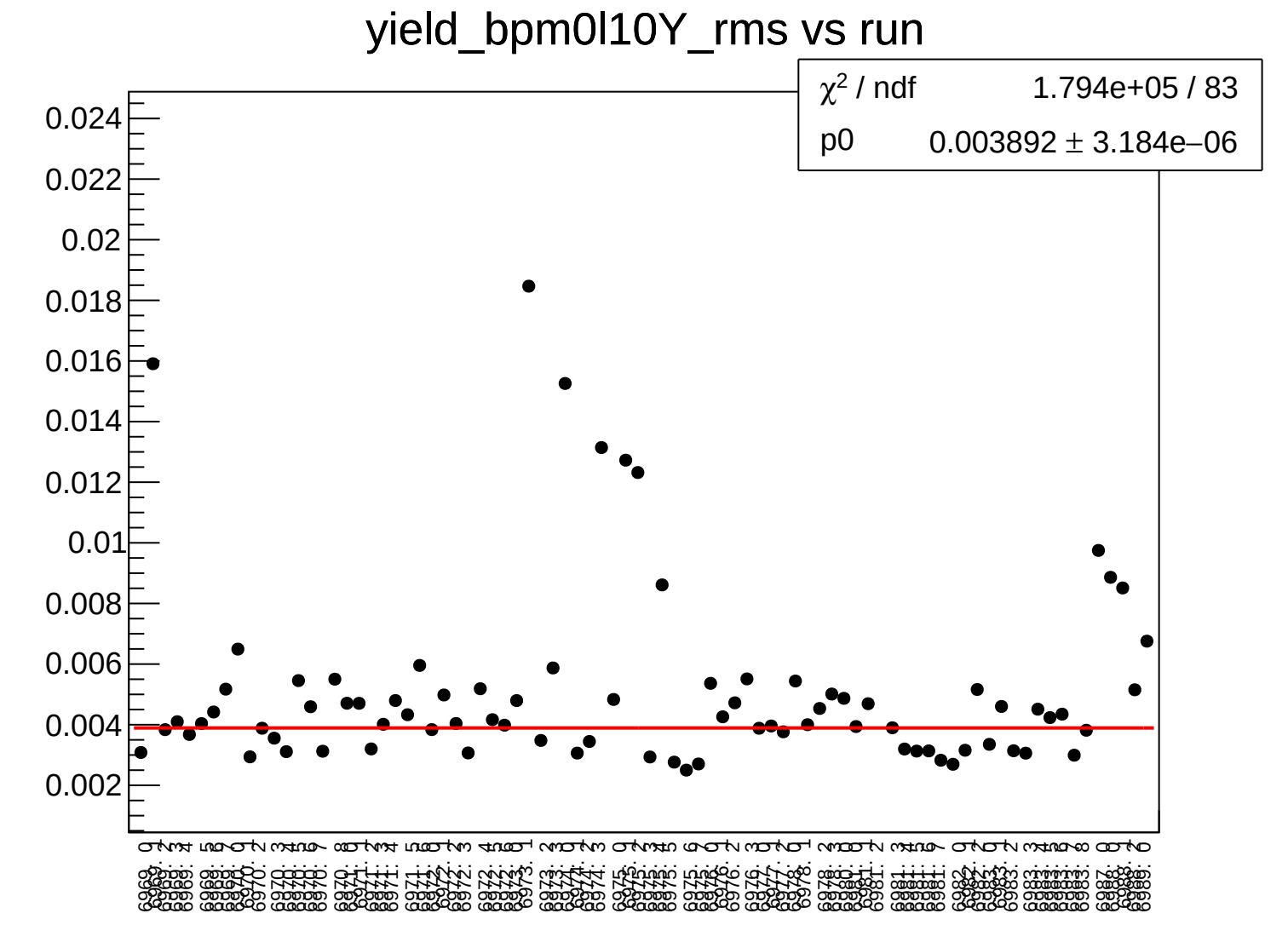

yield_bpm0l09Y_rms vs run
χ² / ndf 1.529e+05 / 83
p0 0.00336 ± 2.724e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

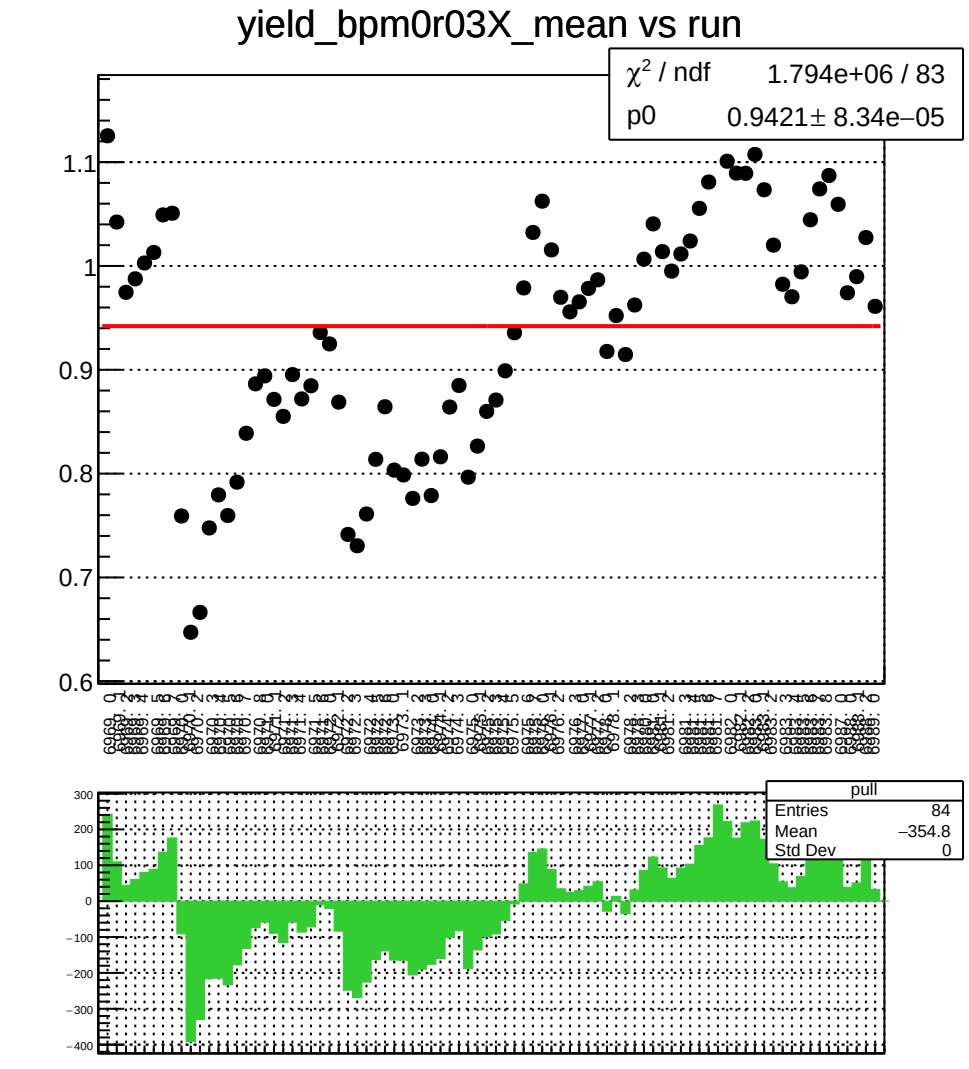

yield_bpm0l10X_mean vs run
χ² / ndf 2.164e+07 / 83
p0 −1.31 ± 1.259e−05
−1.1
−1.15
−1.2
−1.25
−1.3
−1.35
−1.4
pull
Entries 84
Mean −465.7
Std Dev 0
2000
1500
1000
500
0
−500
−1000

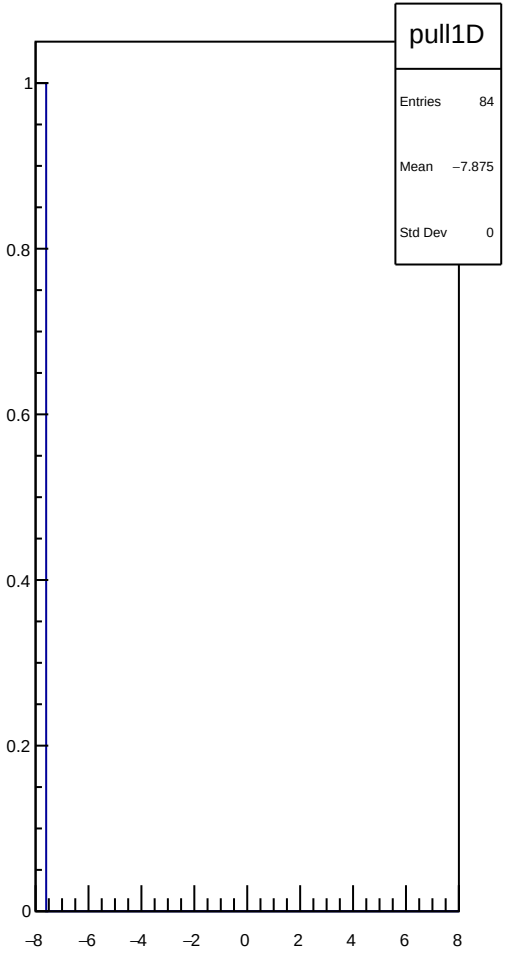

pull1D
Entries 84
Mean 6.731
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

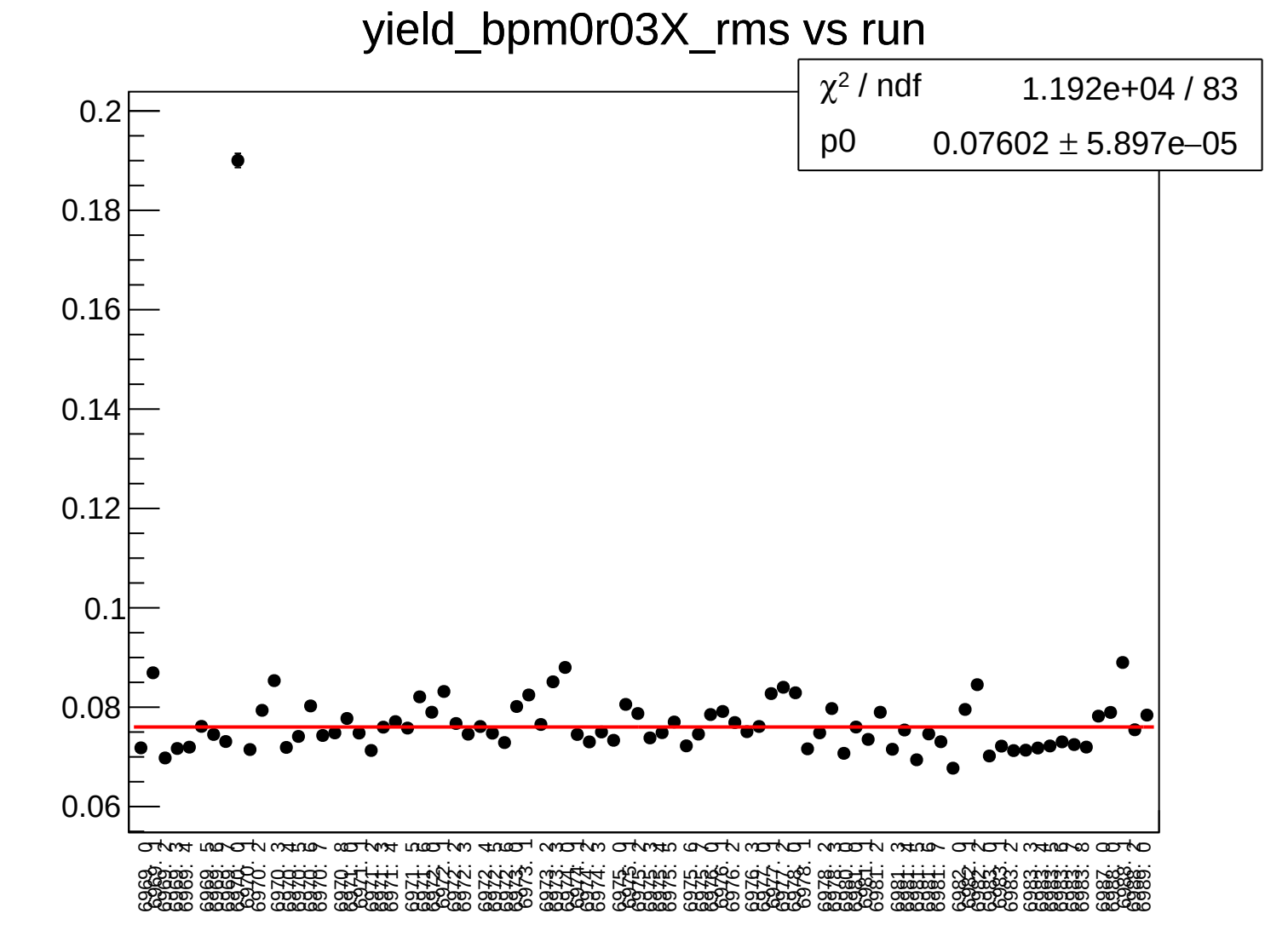

yield_bpm0l10X_rms vs run
χ^2 / ndf 1.219e+05 / 83
p0 0.01109 ± 8.9e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

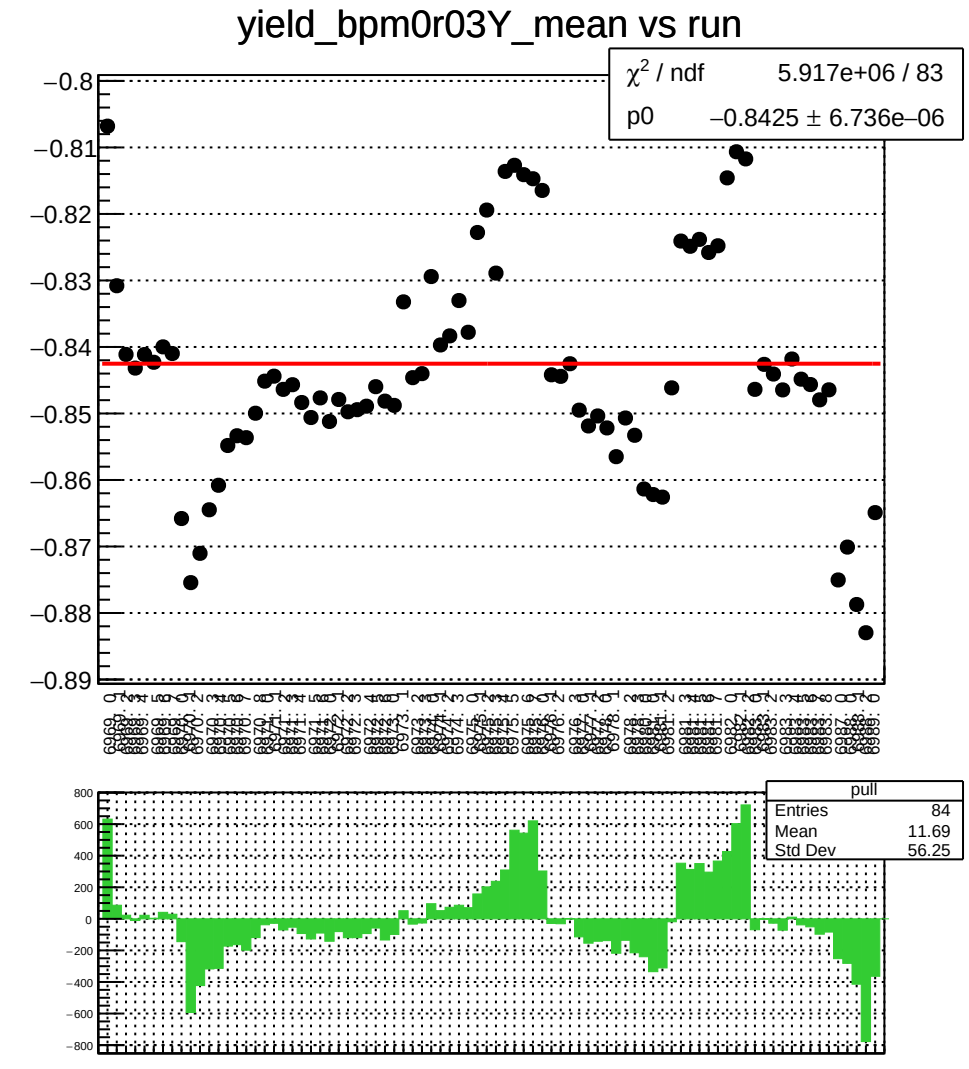

yield_bpm0l10Y_mean vs run
χ² / ndf 2.855e+07 / 83
p0 −0.307 ± 4.503e−06
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
−0.34
pull
Entries 84
Mean −156
Std Dev 0
1500
1000
500
0
−500
−1000
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

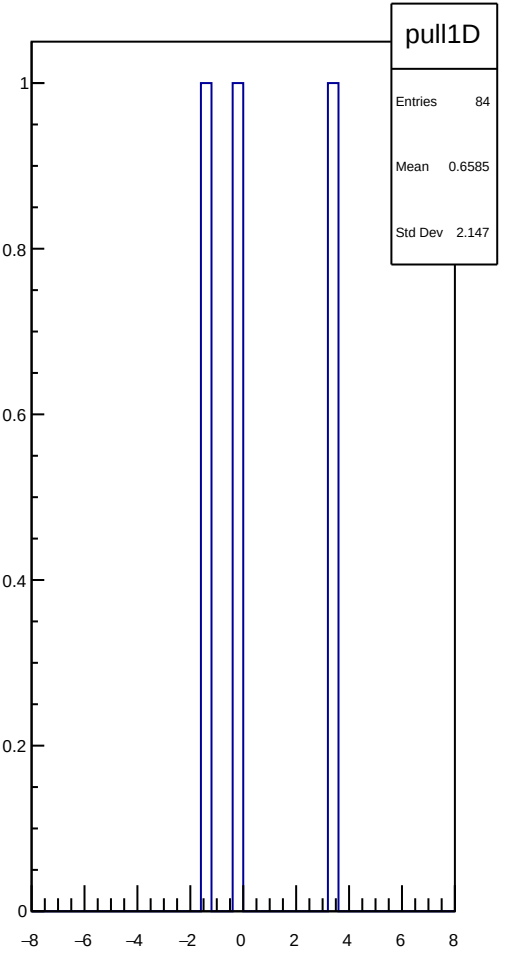

yield_bpm0l10Y_rms vs run
χ² / ndf 1.794e+05 / 83
p0 0.003892 ± 3.184e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

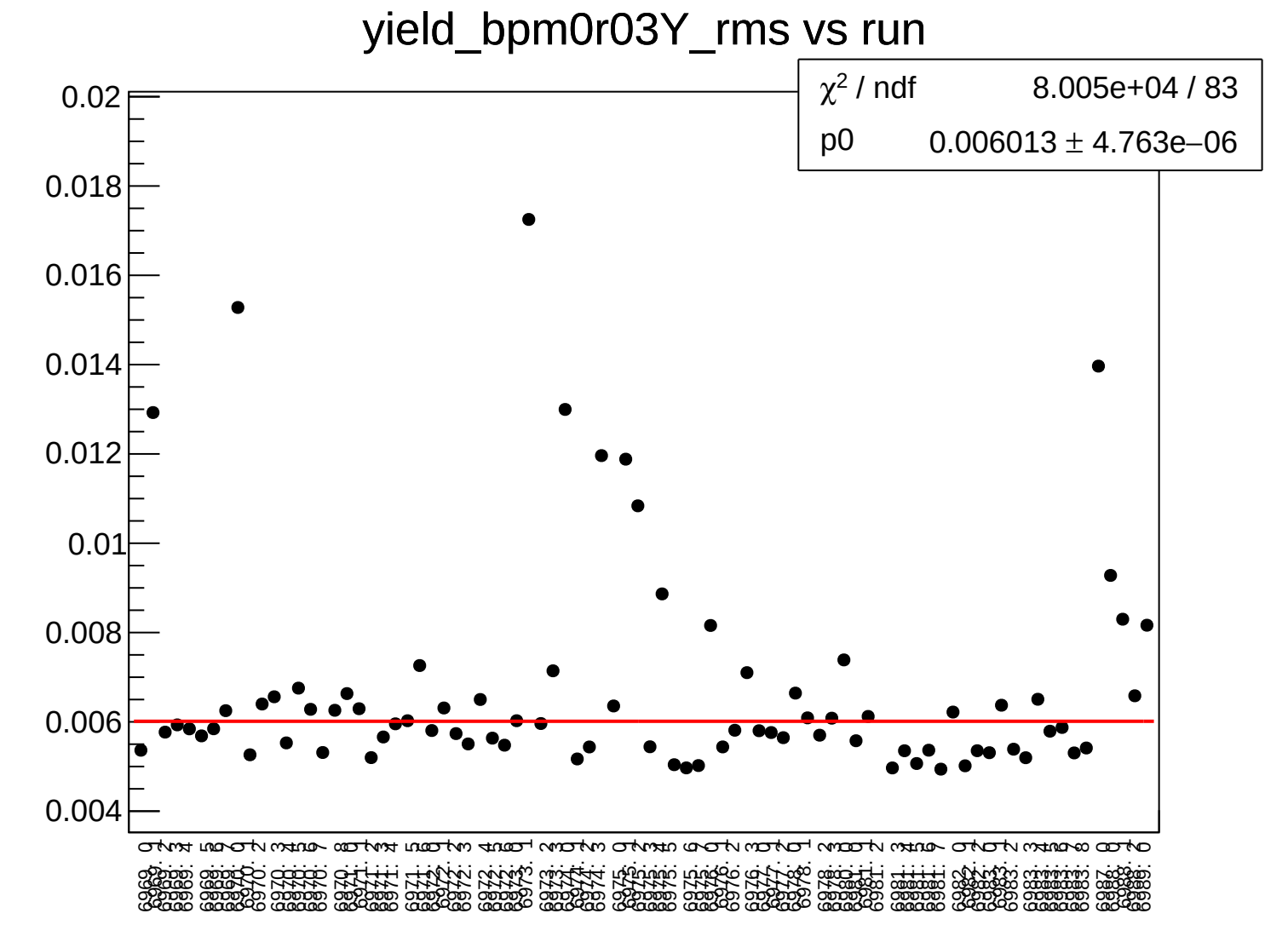

yield_bpm0r03X_mean vs run
χ² / ndf 1.794e+06 / 83
p0 0.9421± 8.34e−05
pull
Entries 84
Mean −354.8
Std Dev 0

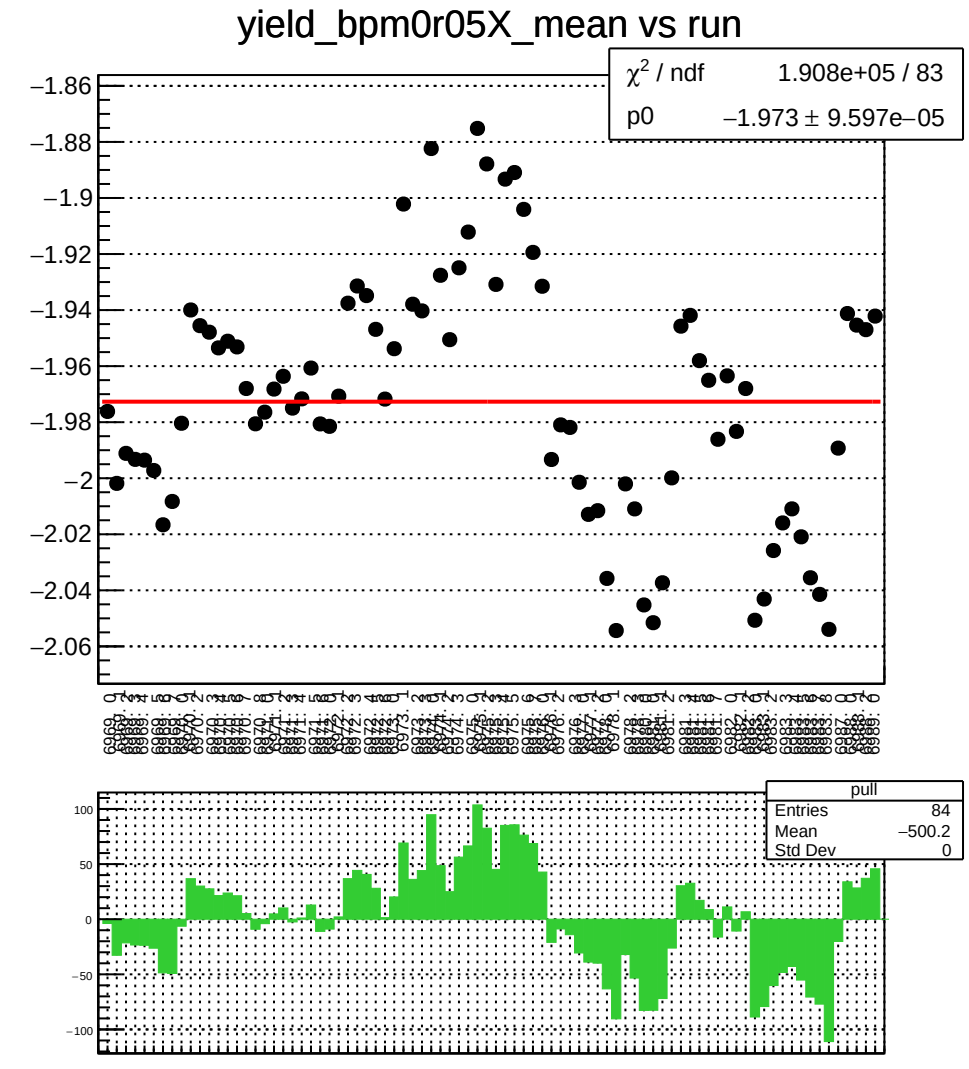

pull1D
Entries 84
Mean −7.875
Std Dev 0

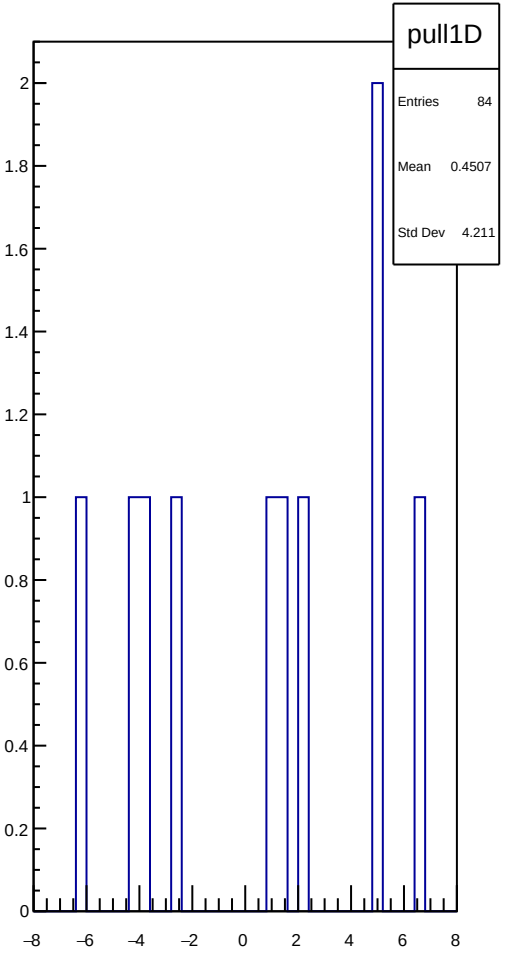

yield_bpm0r03X_rms vs run
χ² / ndf 1.192e+04 / 83
p0 0.07602 ± 5.897e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

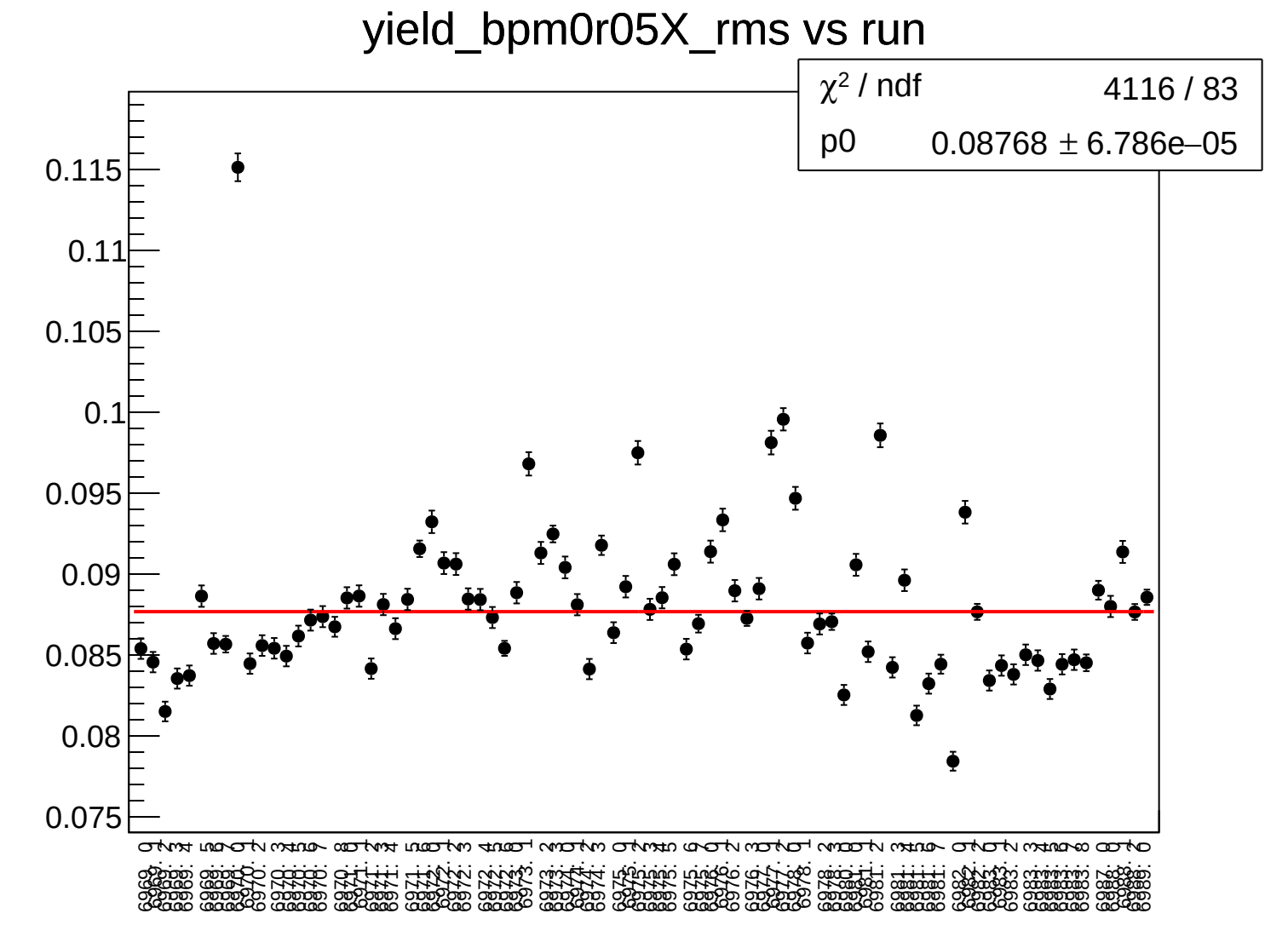

yield_bpm0r03Y_mean vs run
χ² / ndf 5.917e+06 / 83
p0 −0.8425 ± 6.736e−06
pull
Entries 84
Mean 11.69
Std Dev 56.25

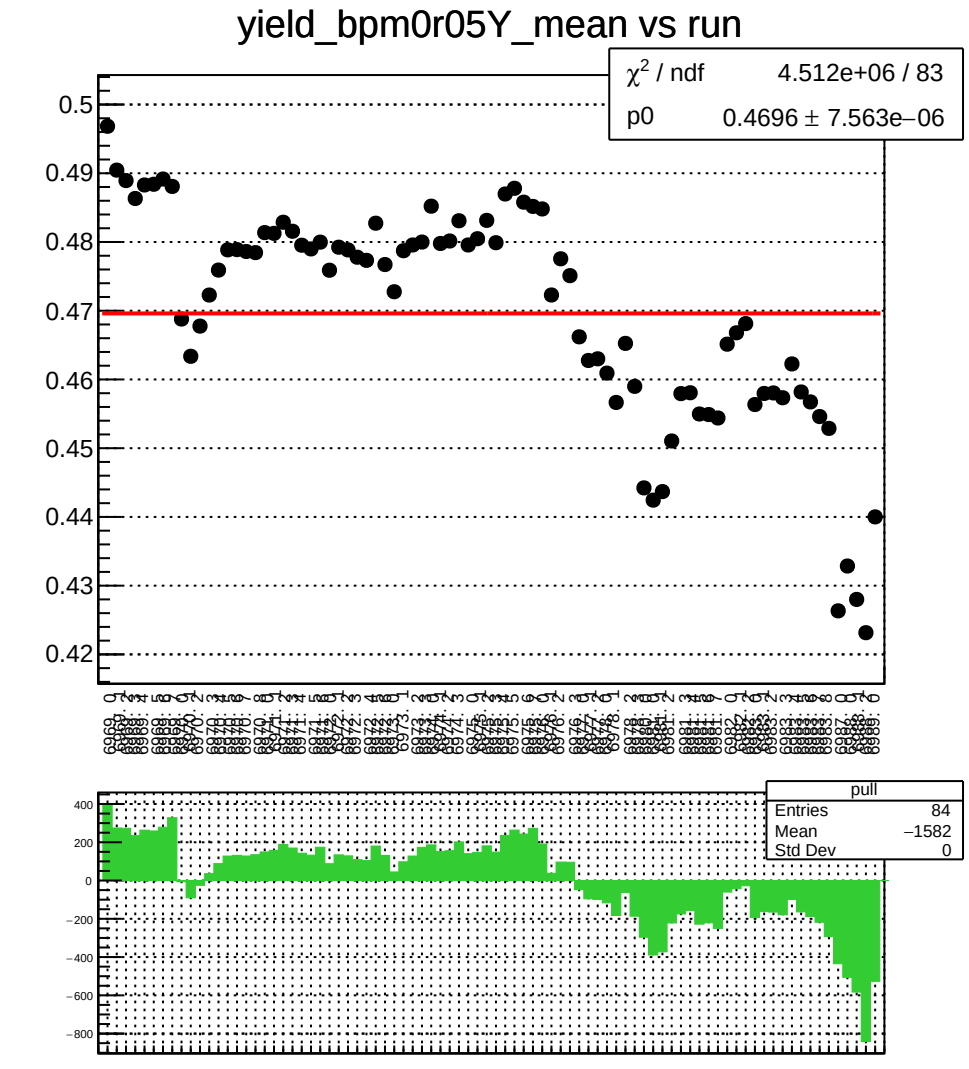

pull1D
Entries 84
Mean 0.6585
Std Dev 2.147

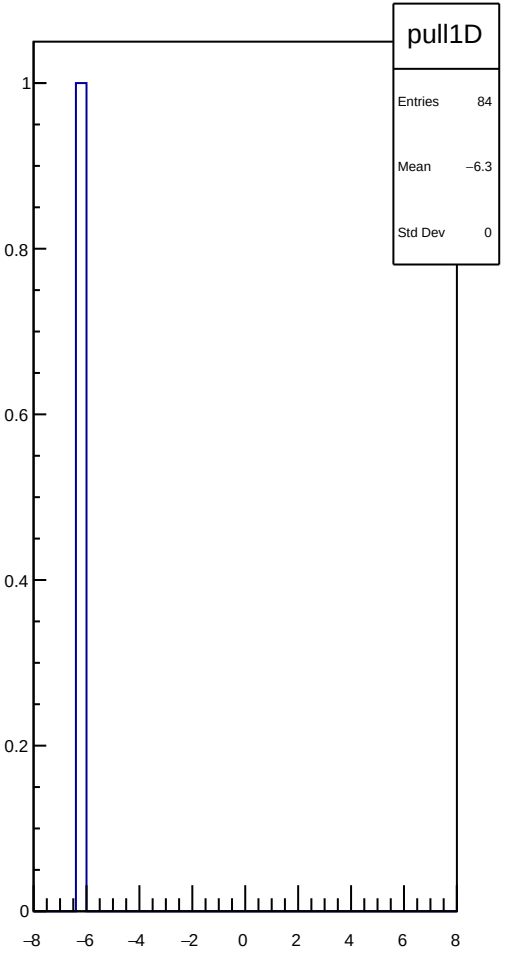

yield_bpm0r03Y_rms vs run
χ² / ndf 8.005e+04 / 83
p0 0.006013 ± 4.763e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

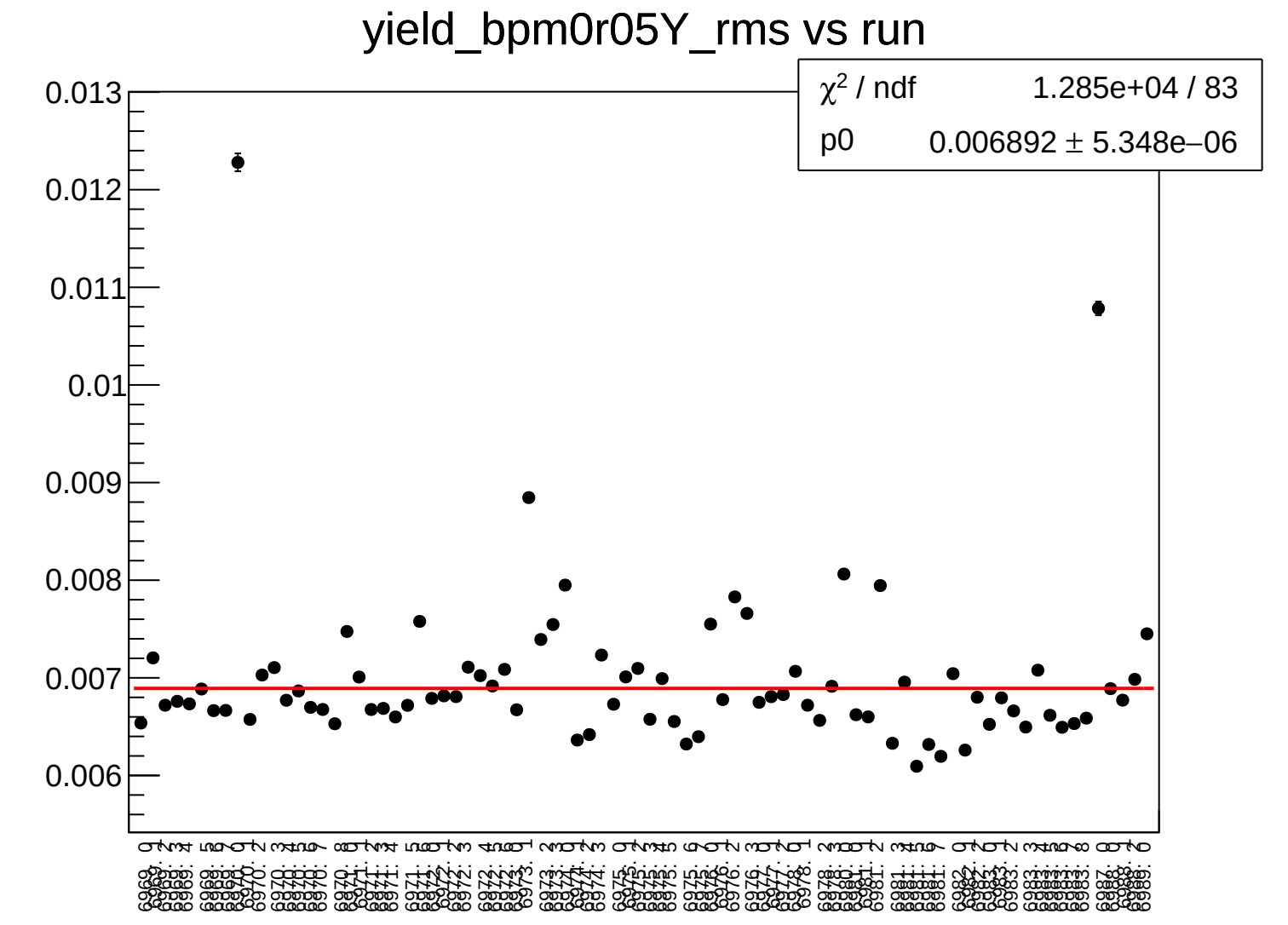

yield_bpm0r05X_mean vs run
χ² / ndf 1.908e+05 / 83
p0 −1.973 ± 9.597e−05
−1.86
−1.88
−1.9
−1.92
−1.94
−1.96
−1.98
−2
−2.02
−2.04
−2.06
pull
Entries 84
Mean −500.2
Std Dev 0
100
50
0
−50
−100

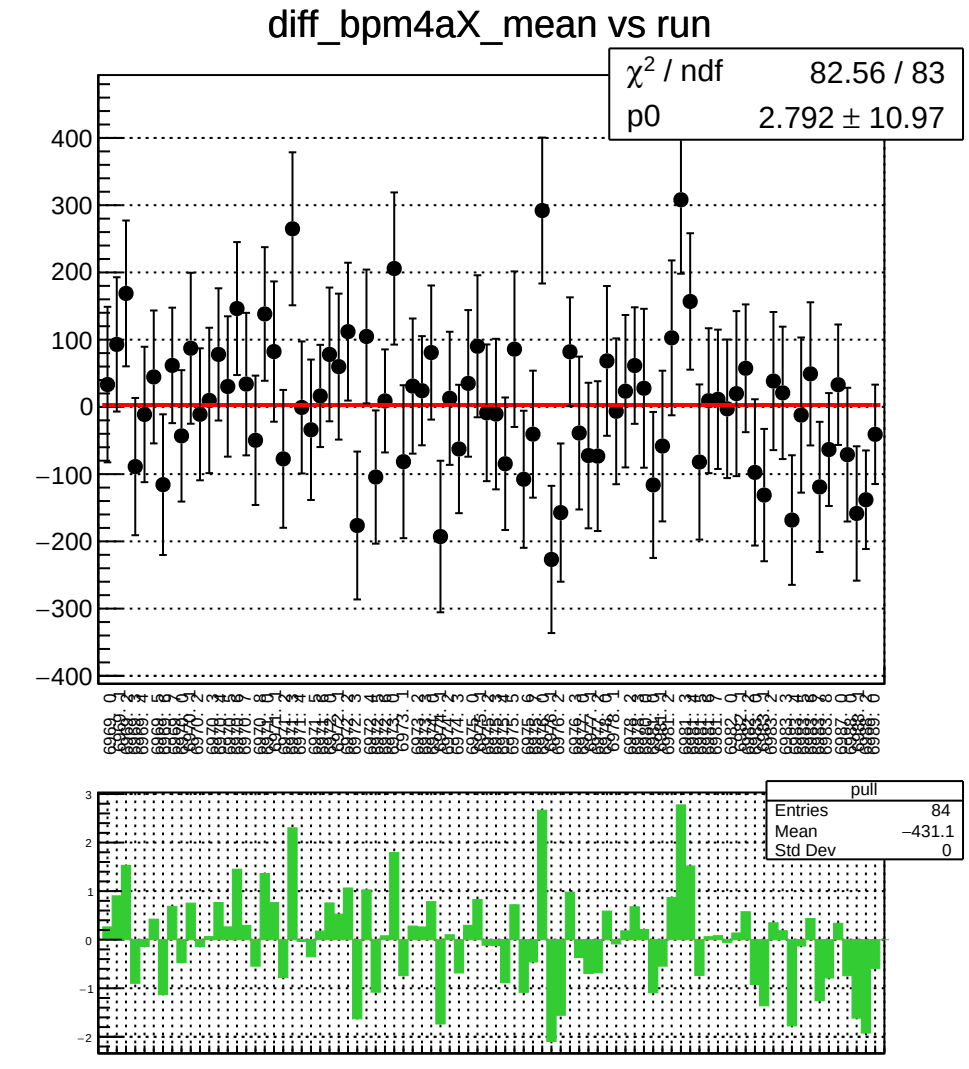

pull1D
Entries 84
Mean 0.4507
Std Dev 4.211
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

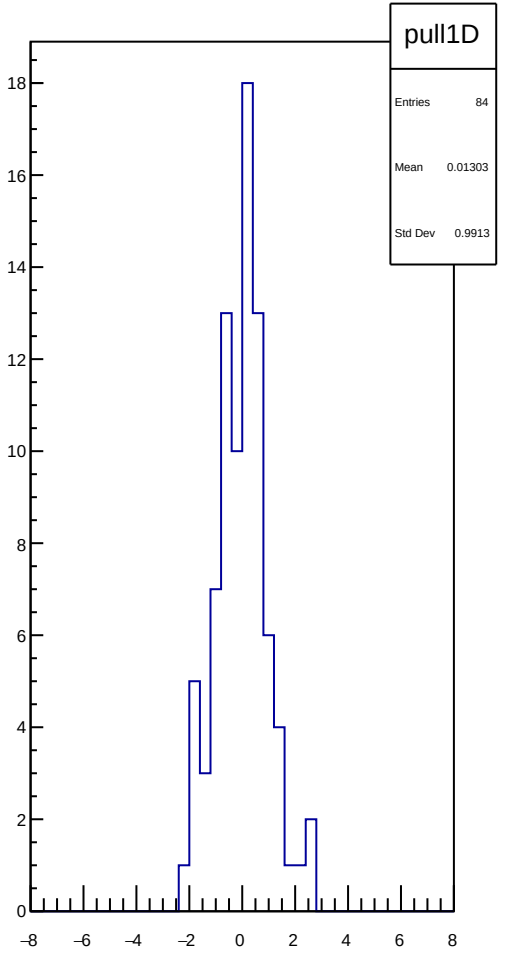

yield_bpm0r05X_rms vs run
χ² / ndf 4116 / 83
p0 0.08768 ± 6.786e–05
0.115
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075

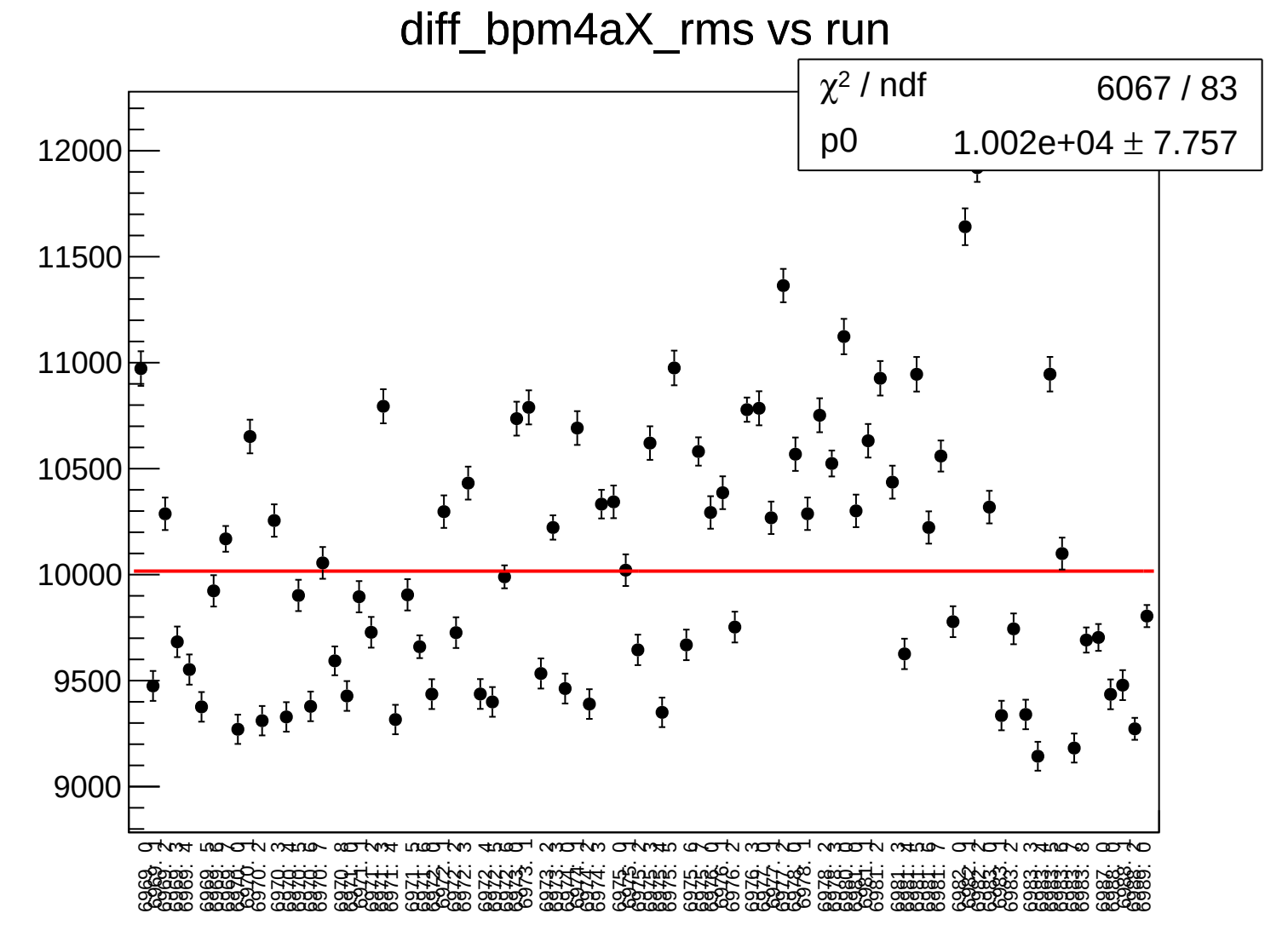

yield_bpm0r05Y_mean vs run
χ² / ndf 4.512e+06 / 83
p0 0.4696 ± 7.563e−06
pull
Entries 84
Mean −1582
Std Dev 0

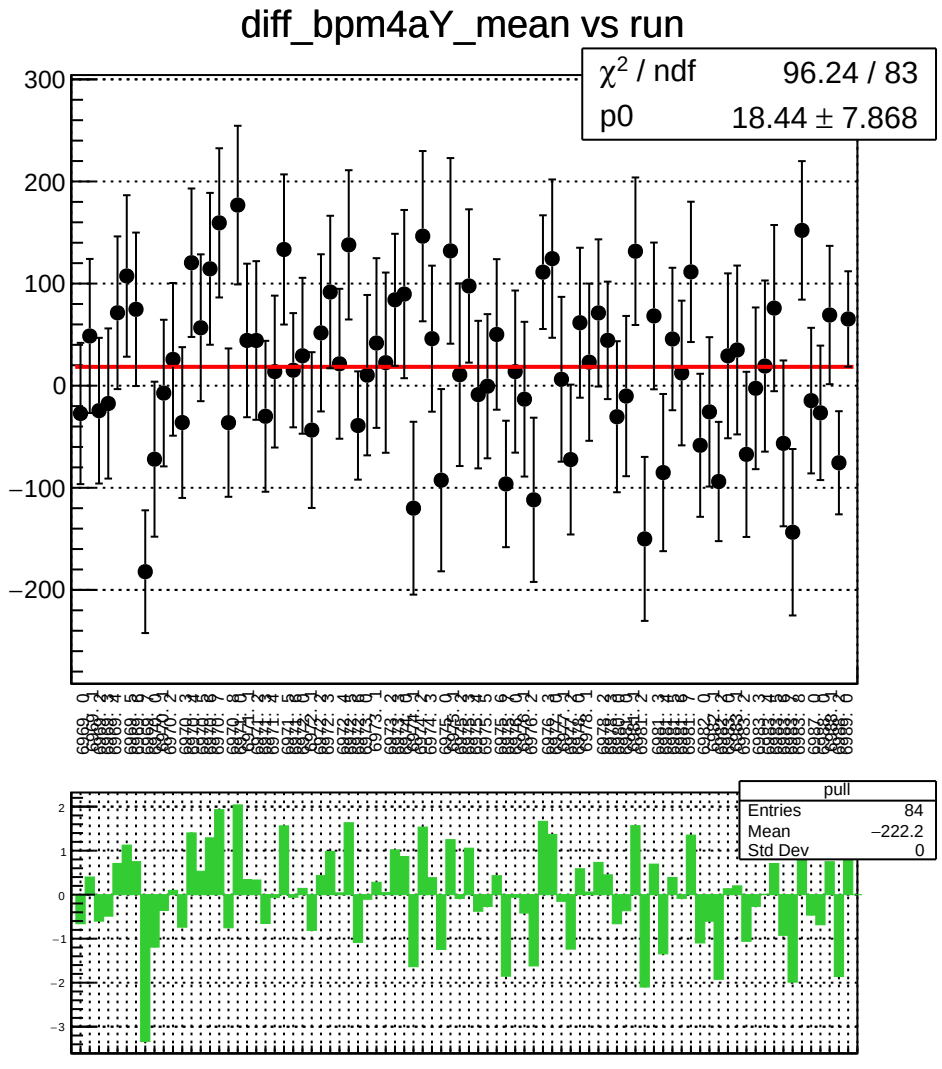

pull1D
Entries 84
Mean −6.3
Std Dev 0

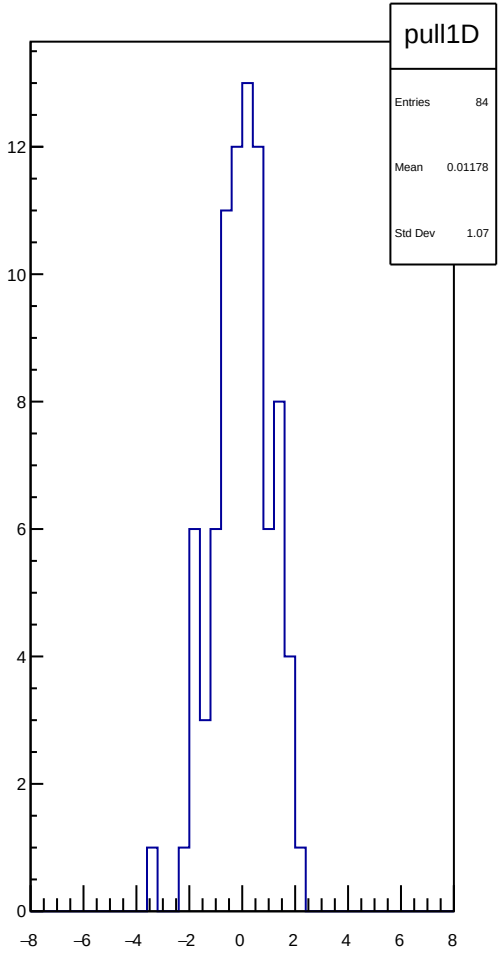

yield_bpm0r05Y_rms vs run
χ² / ndf 1.285e+04 / 83
p0 0.006892 ± 5.348e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

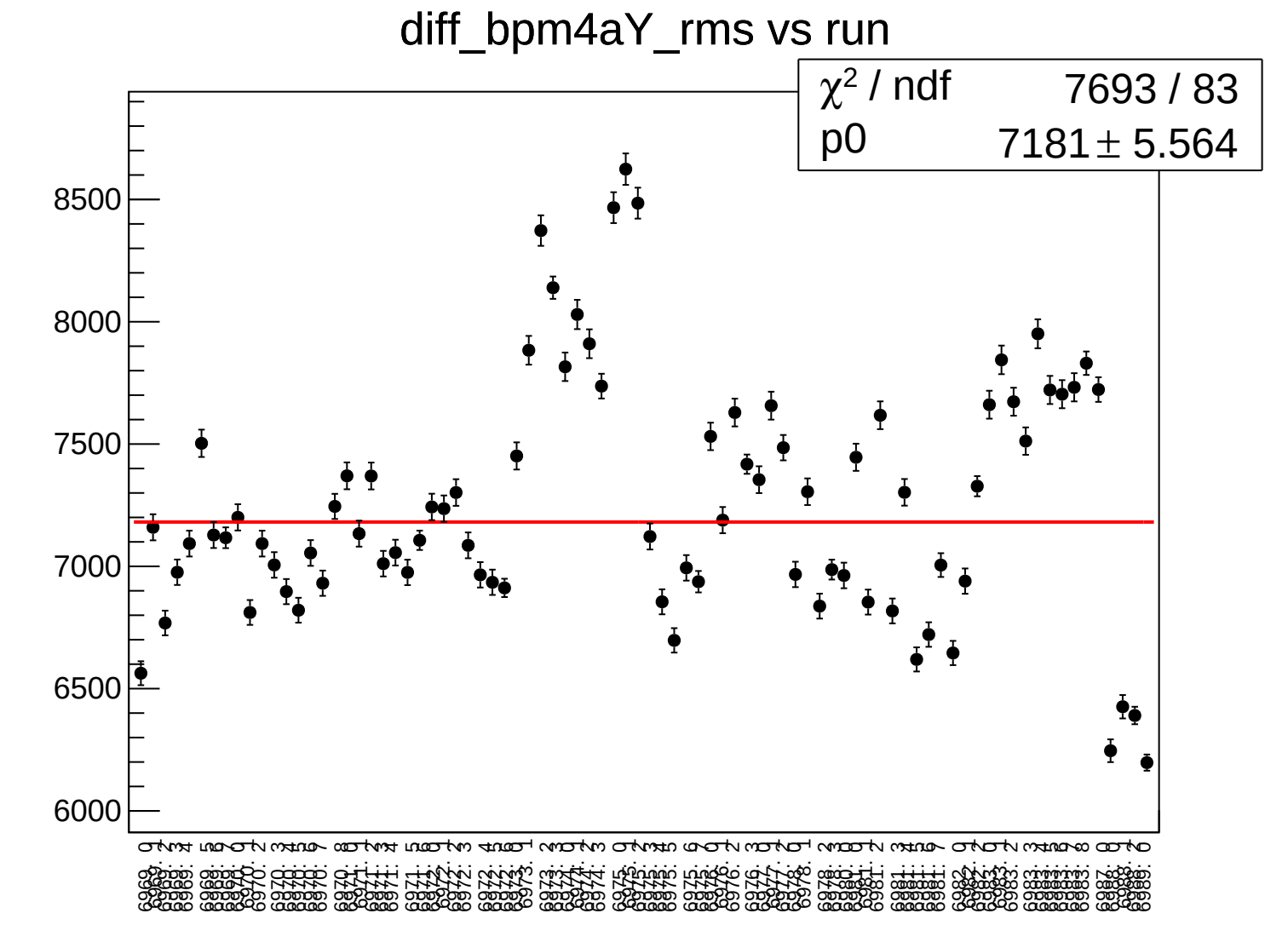

diff_bpm4aX_mean vs run
χ² / ndf 82.56 / 83
p0 2.792 ± 10.97
pull
Entries 84
Mean −431.1
Std Dev 0

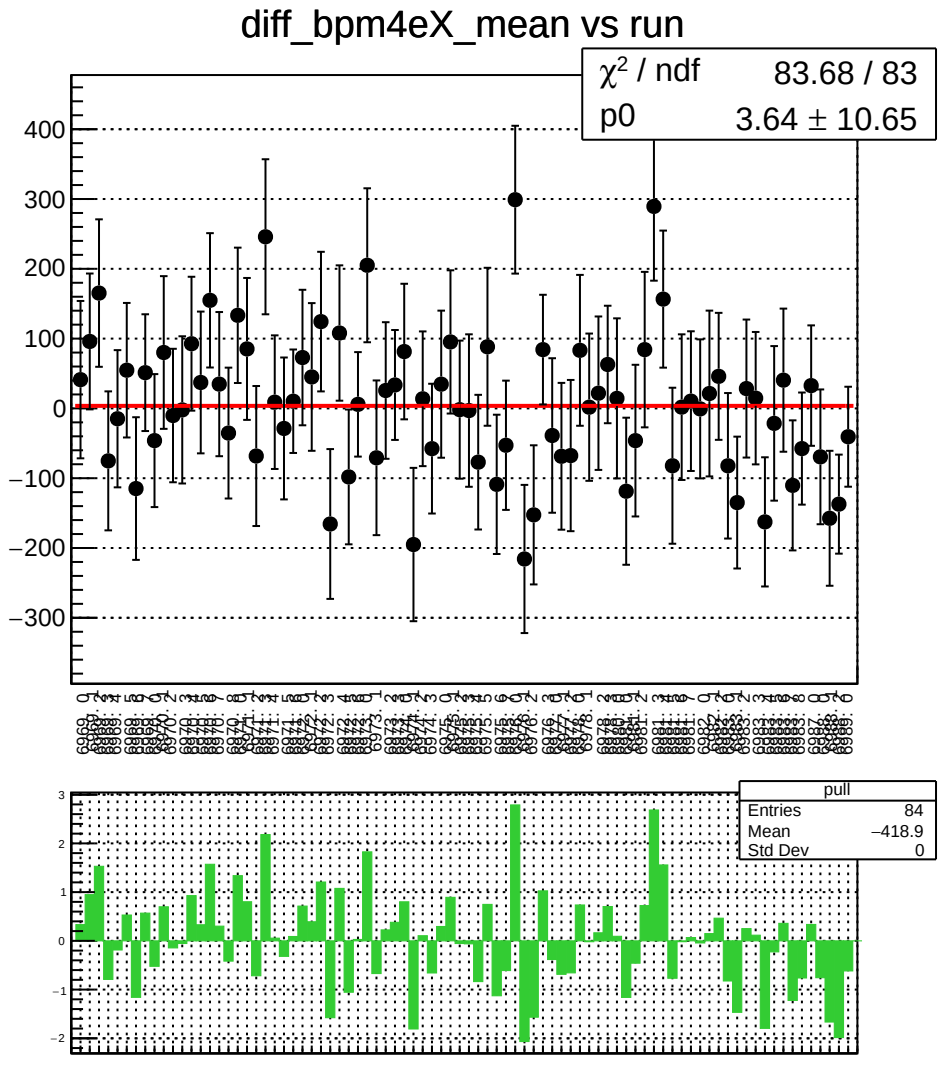

pull1D
Entries 84
Mean 0.01303
Std Dev 0.9913

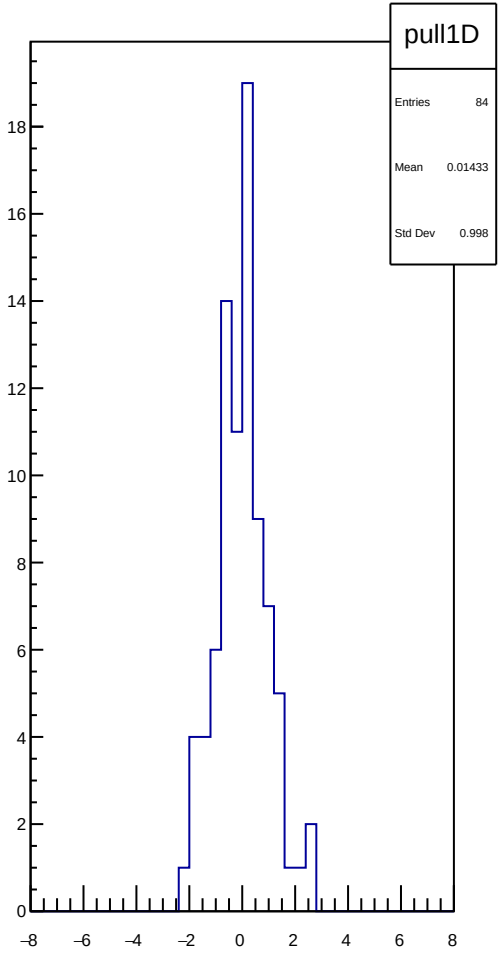

diff_bpm4aX_rms vs run
χ² / ndf 6067 / 83
p0 1.002e+04 ± 7.757
12000
11500
11000
10500
10000
9500
9000

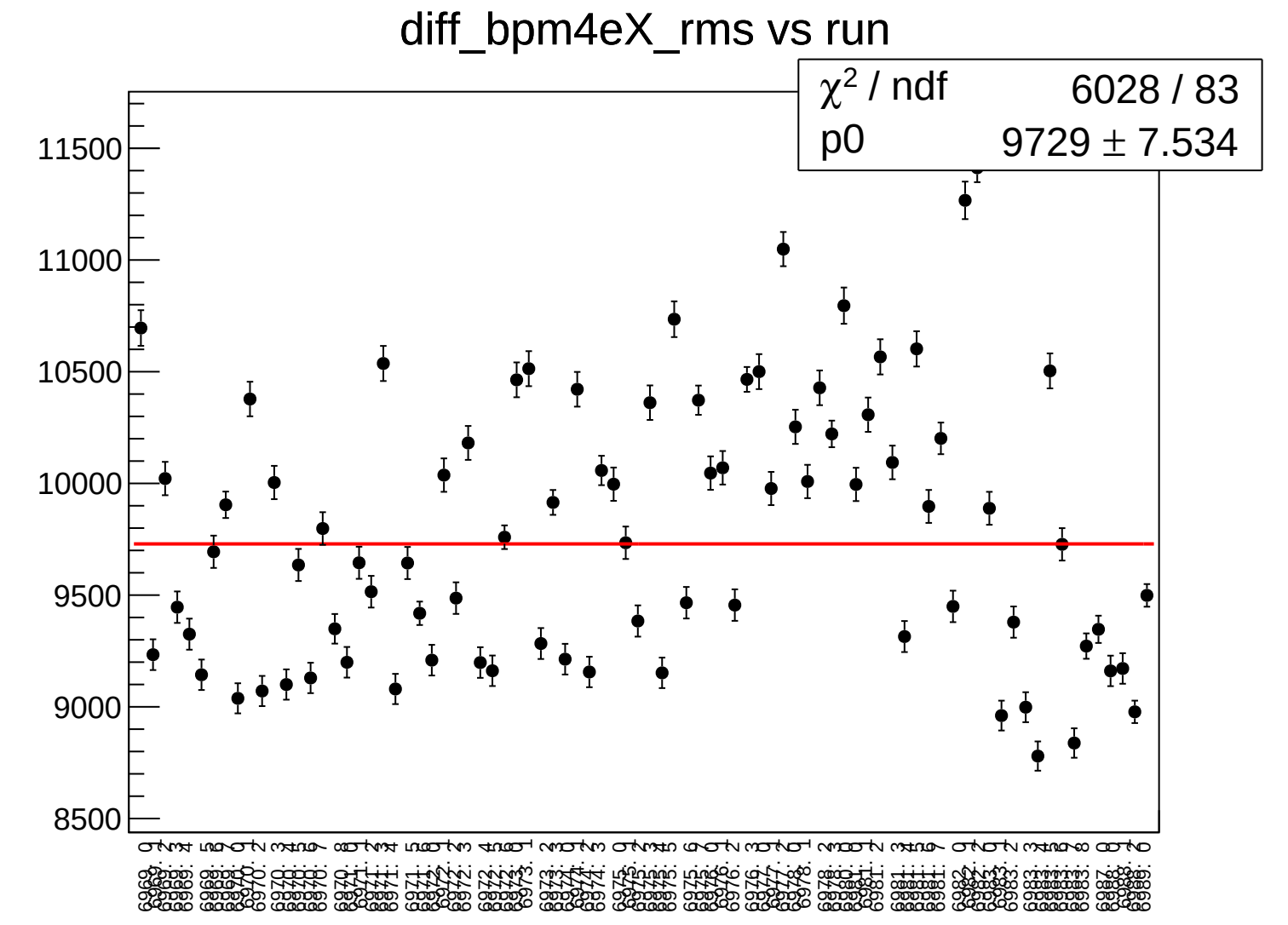

diff_bpm4aY_mean vs run
χ² / ndf 96.24 / 83
p0 18.44 ± 7.868
pull
Entries 84
Mean −222.2
Std Dev 0

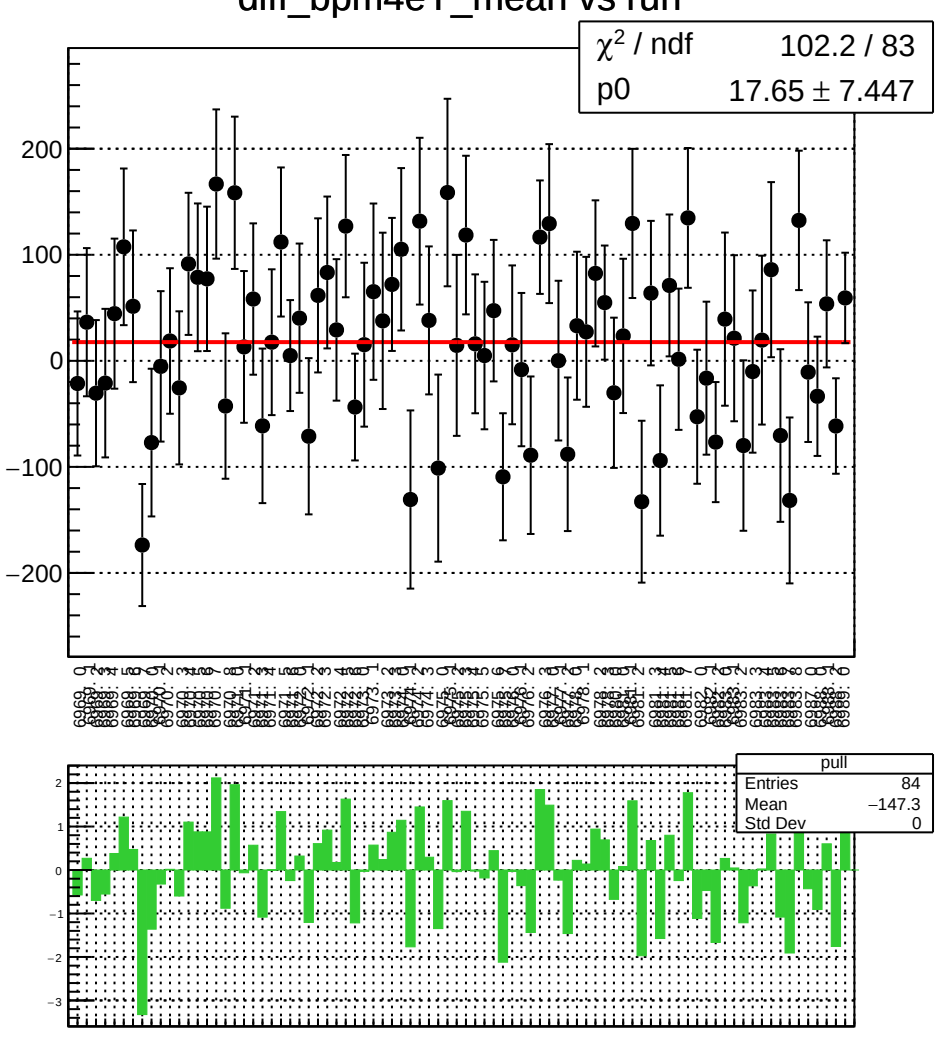

pull1D
Entries 84
Mean 0.01178
Std Dev 1.07

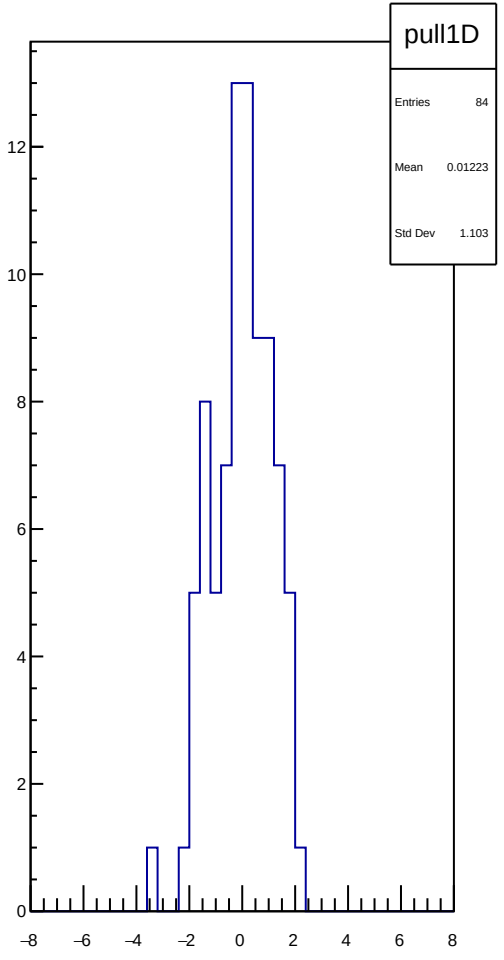

diff_bpm4aY_rms vs run
χ² / ndf 7693 / 83
p0 7181 ± 5.564
8500
8000
7500
7000
6500
6000

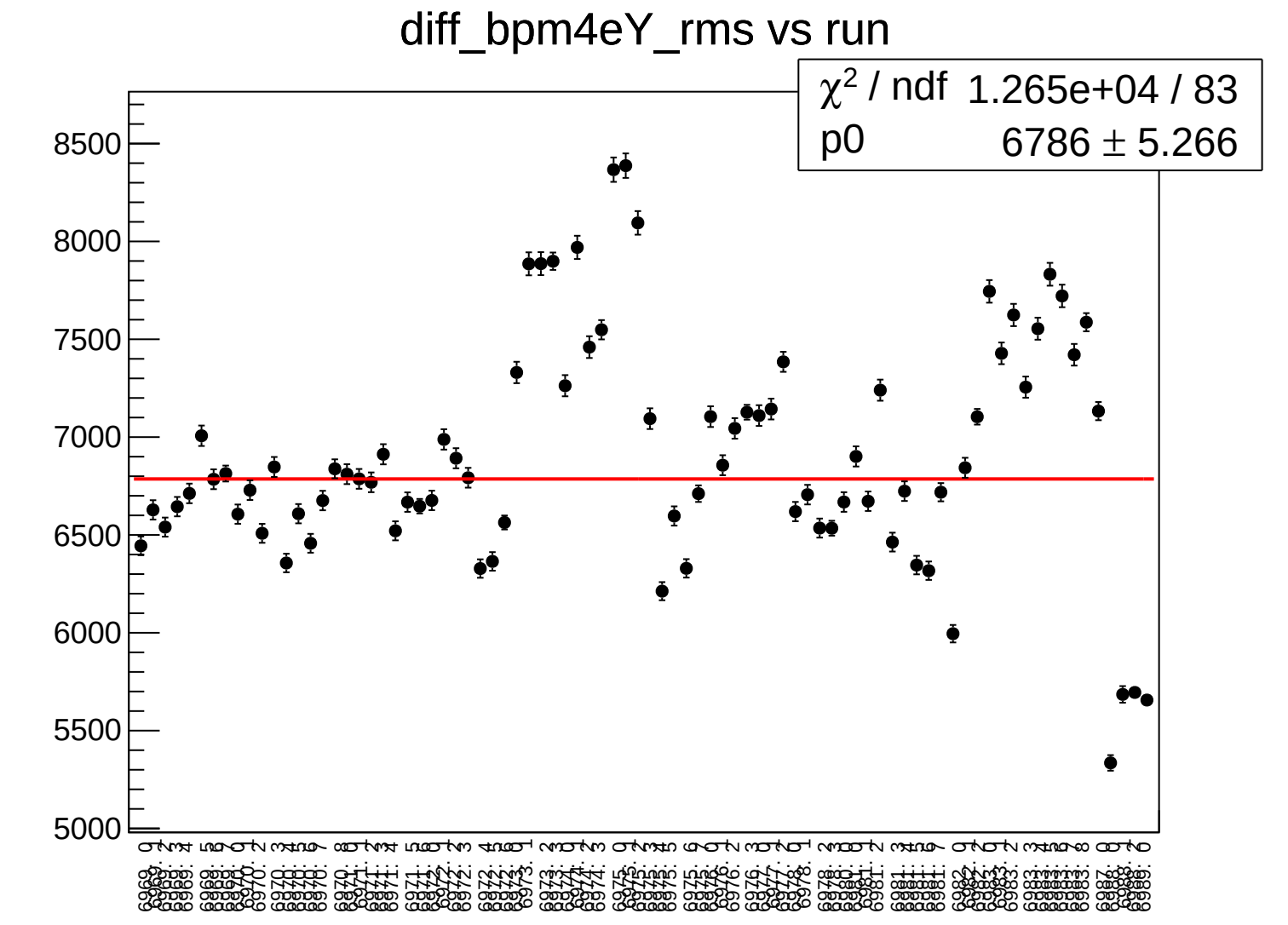

diff_bpm4eX_mean vs run
χ² / ndf 83.68 / 83
p0 3.64 ± 10.65
pull
Entries 84
Mean −418.9
Std Dev 0

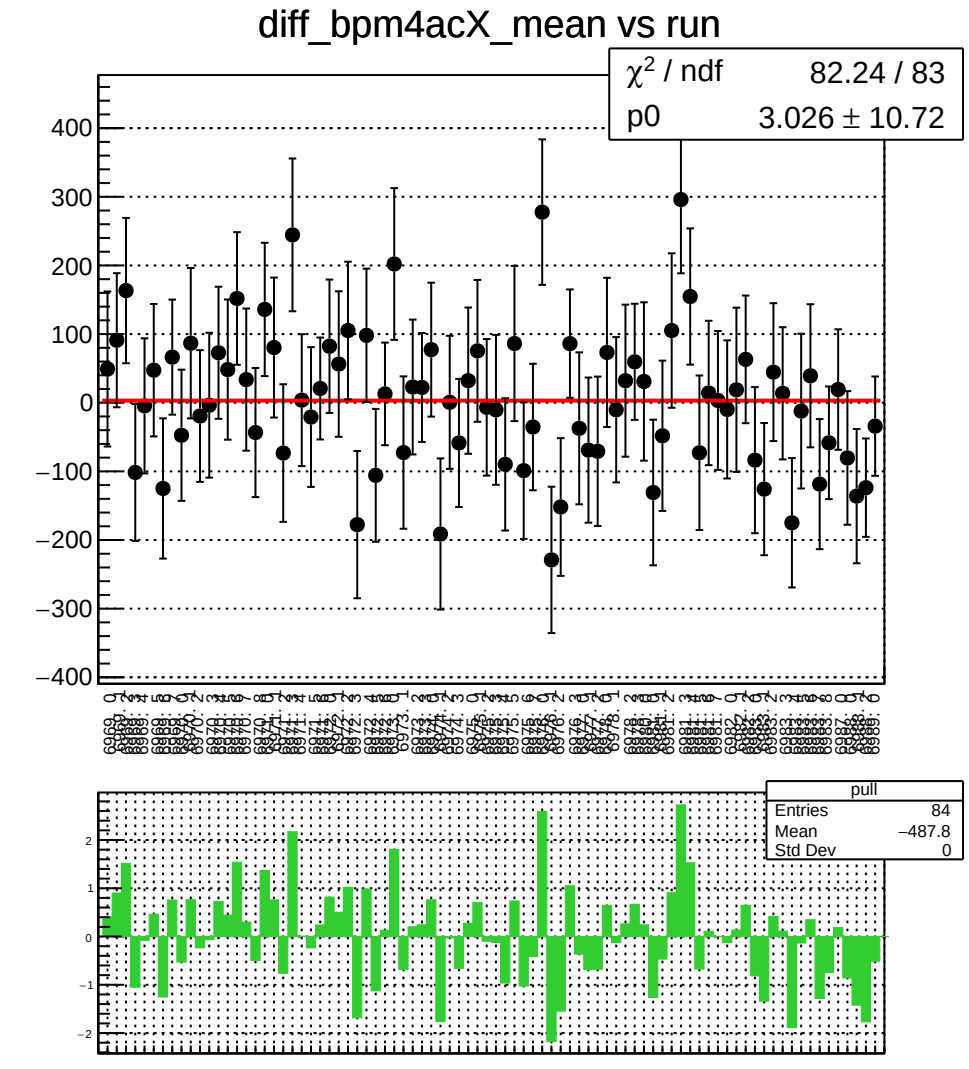

pull1D
Entries 84
Mean 0.01433
Std Dev 0.998

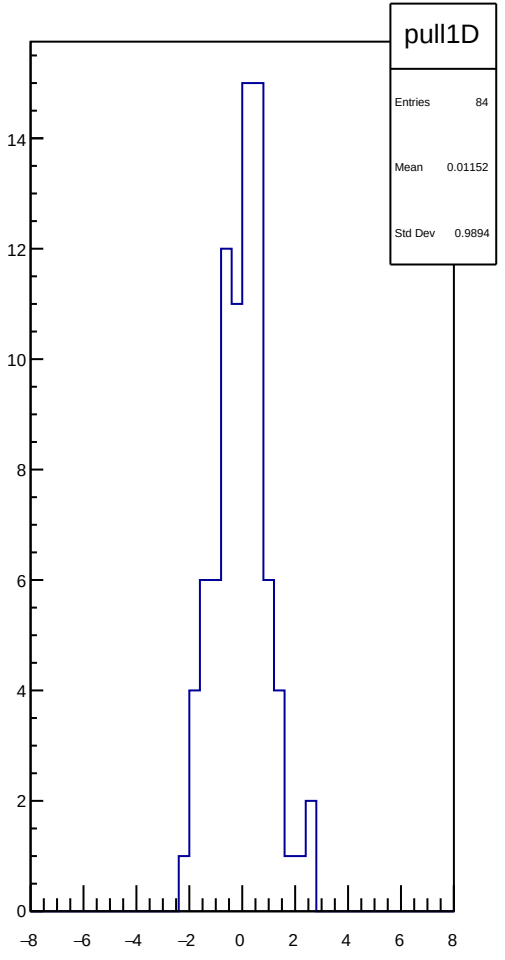

diff_bpm4eX_rms vs run
χ² / ndf 6028 / 83
p0 9729 ± 7.534
11500
11000
10500
10000
9500
9000
8500

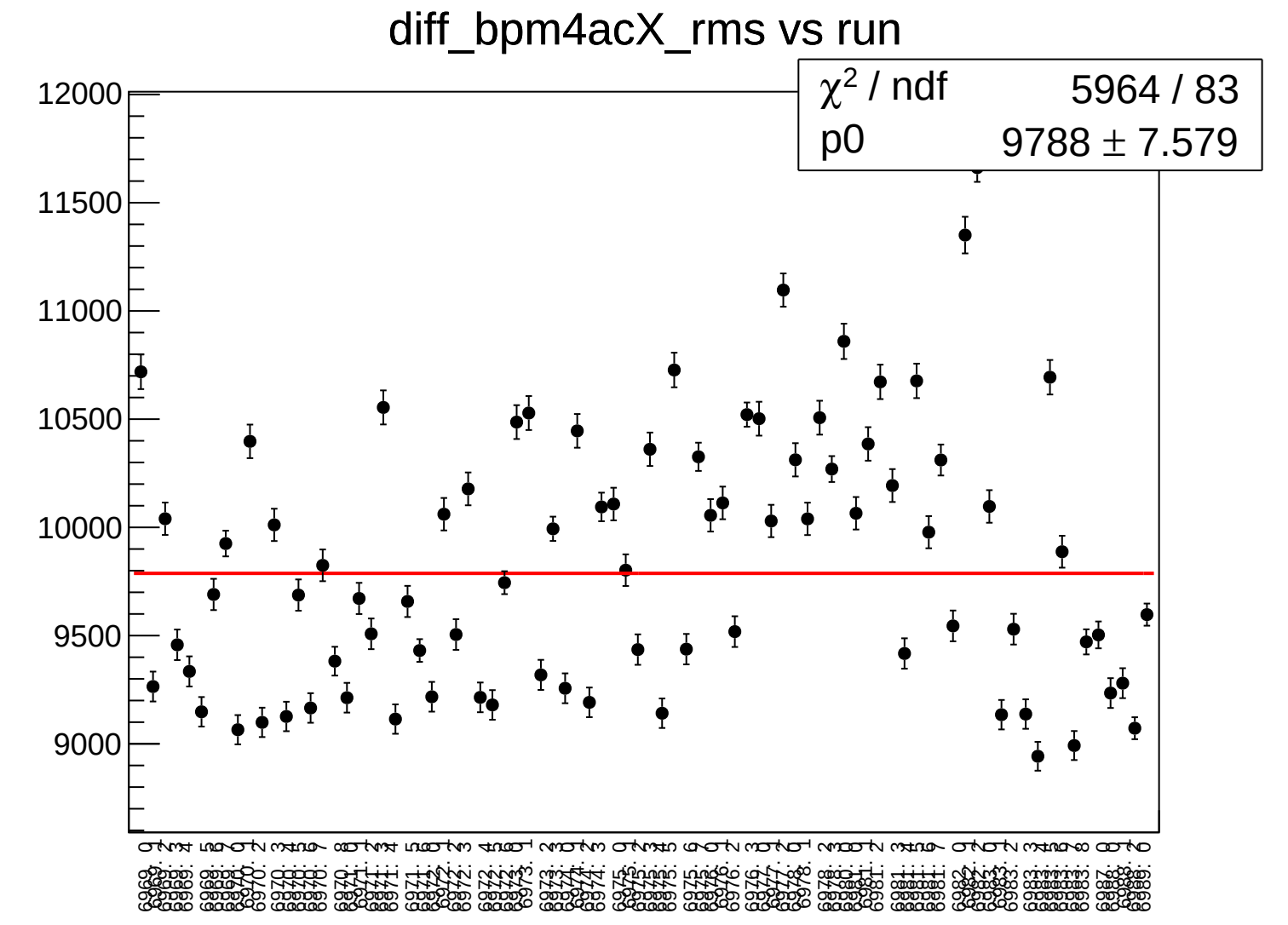

diff_bpm4eY_mean vs run
χ² / ndf 102.2 / 83
p0 17.65 ± 7.447
200
100
0
−100
−200
pull
Entries 84
Mean −147.3
Std Dev 0
2
1
0
−1
−2
−3

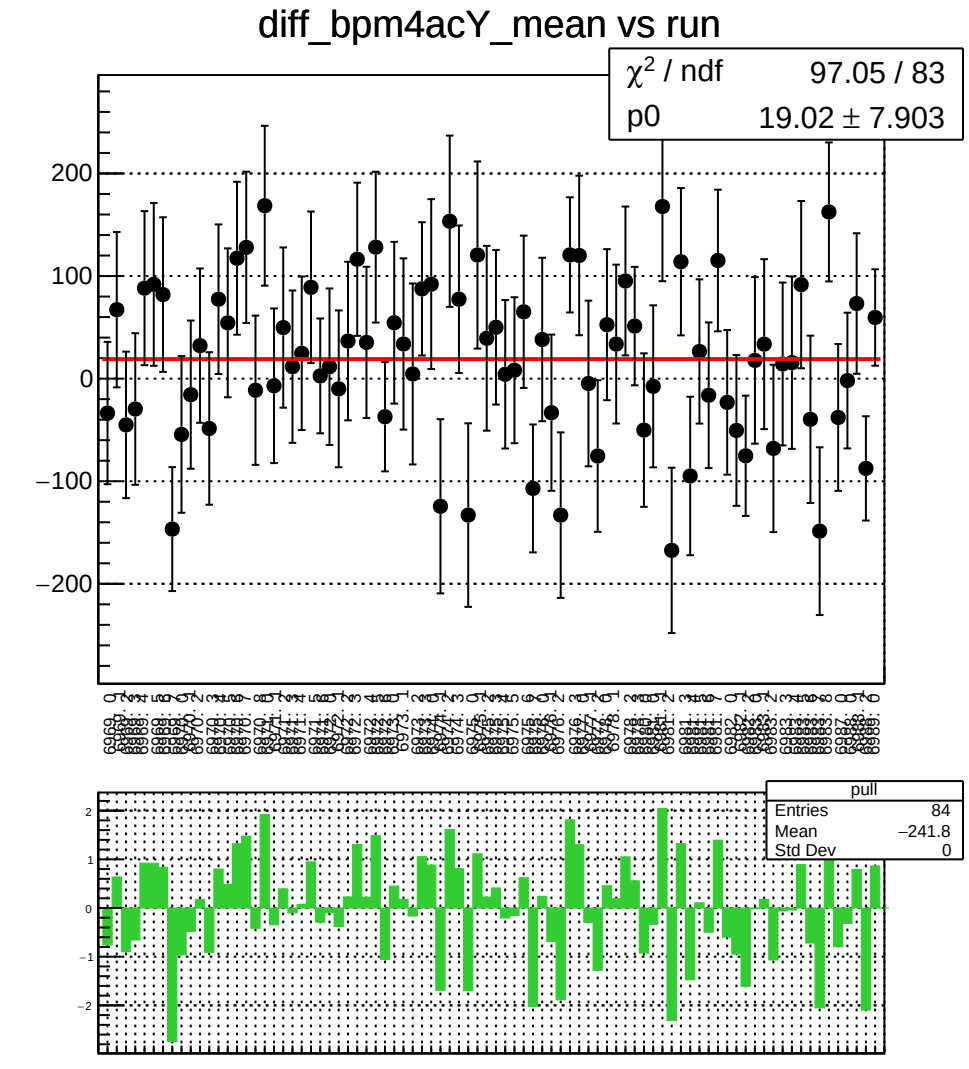

pull1D
Entries 84
Mean 0.01223
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

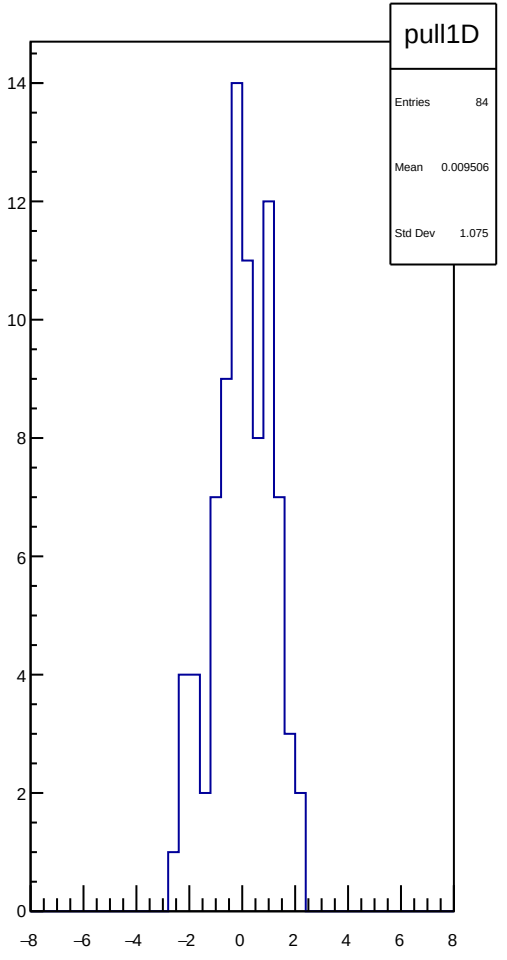

diff_bpm4eY_rms vs run
χ² / ndf 1.265e+04 / 83
p0 6786 ± 5.266
8500
8000
7500
7000
6500
6000
5500
5000

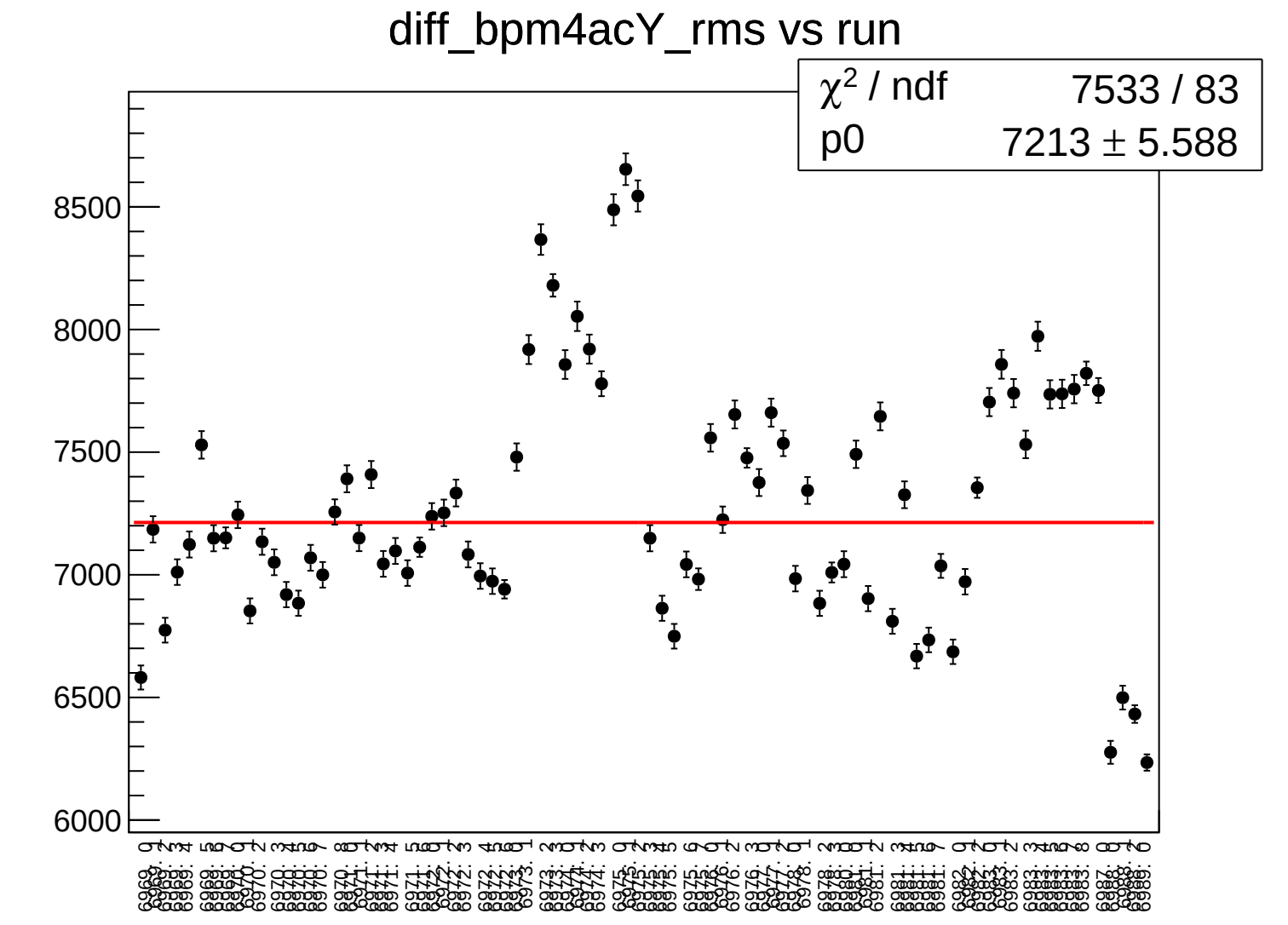

diff_bpm4acX_mean vs run
χ² / ndf 82.24 / 83
p0 3.026 ± 10.72
pull
Entries 84
Mean −487.8
Std Dev 0

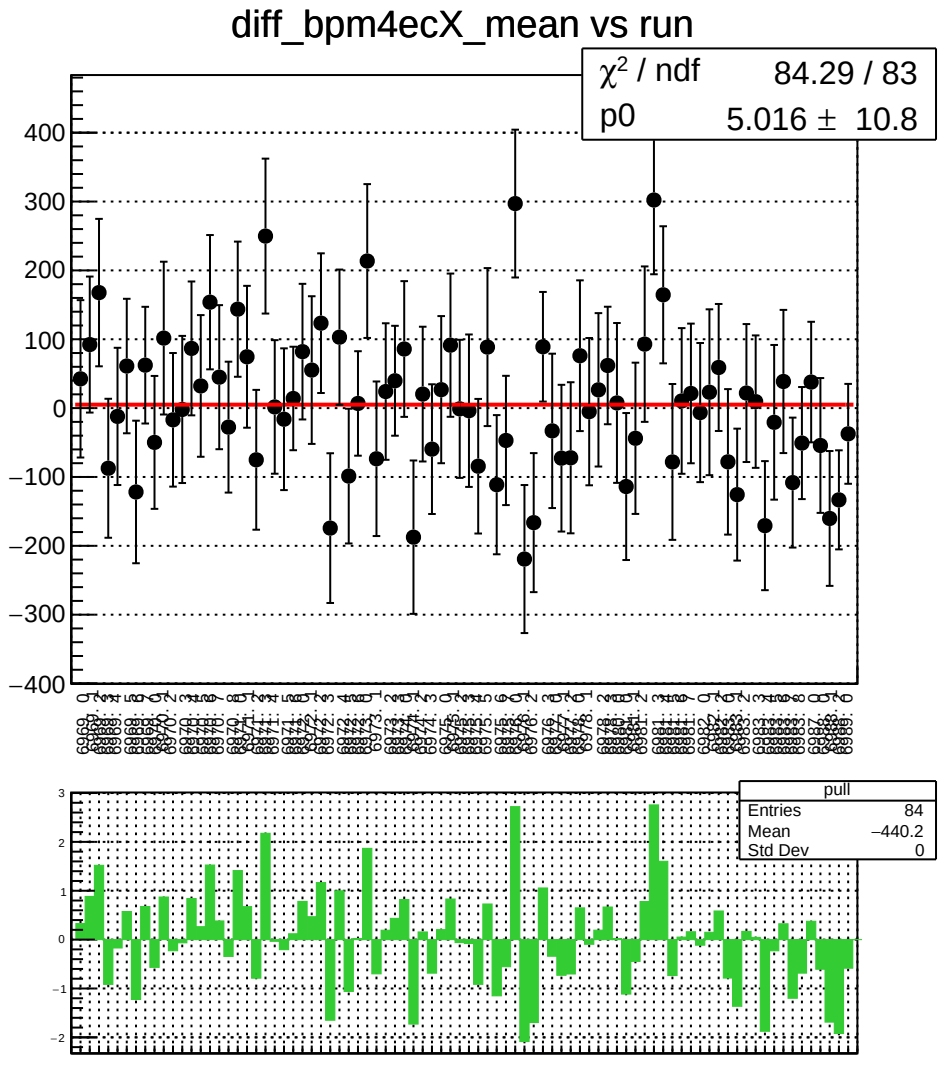

pull1D
Entries 84
Mean 0.01152
Std Dev 0.9894

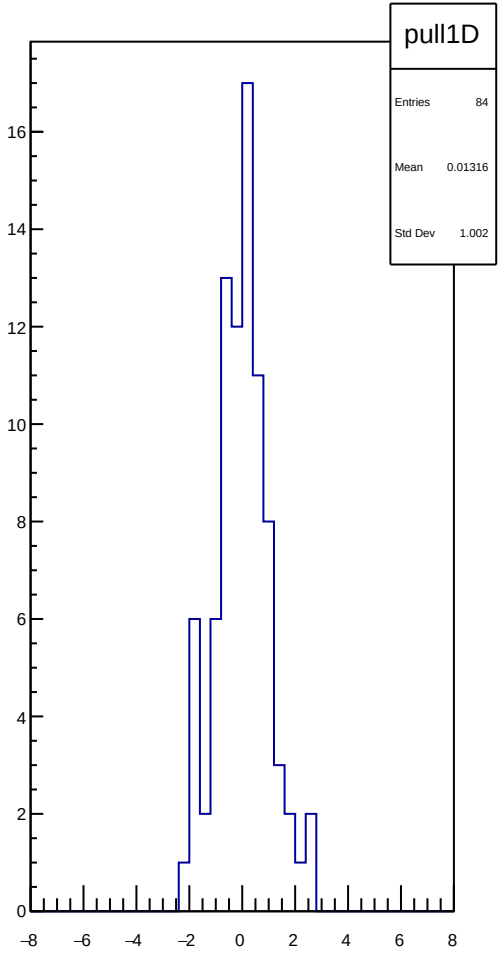

diff_bpm4acX_rms vs run
χ² / ndf 5964 / 83
p0 9788 ± 7.579
12000
11500
11000
10500
10000
9500
9000

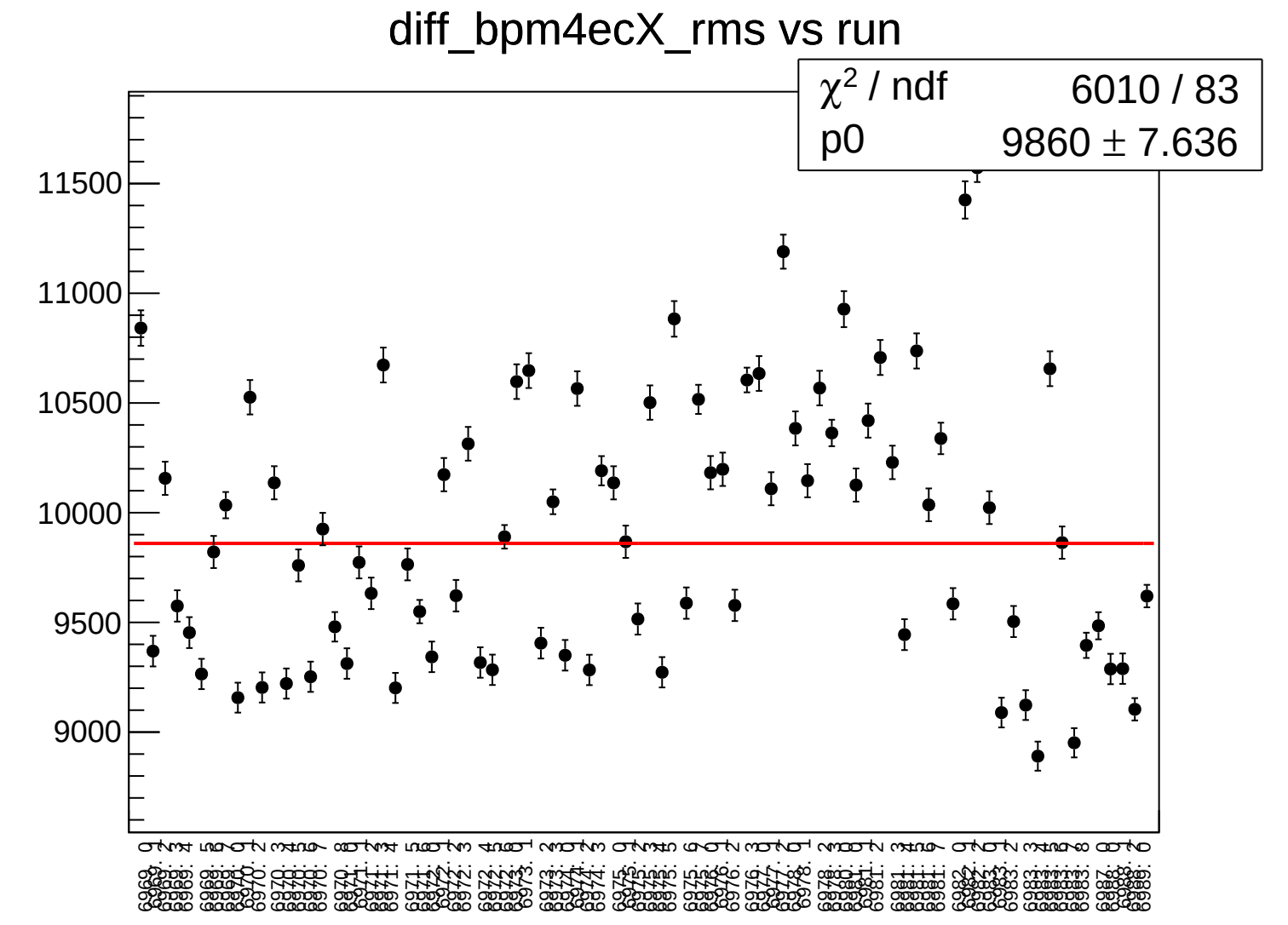

diff_bpm4acY_mean vs run
χ² / ndf 97.05 / 83
p0 19.02 ± 7.903
200
100
0
−100
−200
pull
Entries 84
Mean −241.8
Std Dev 0
2
1
0
−1
−2

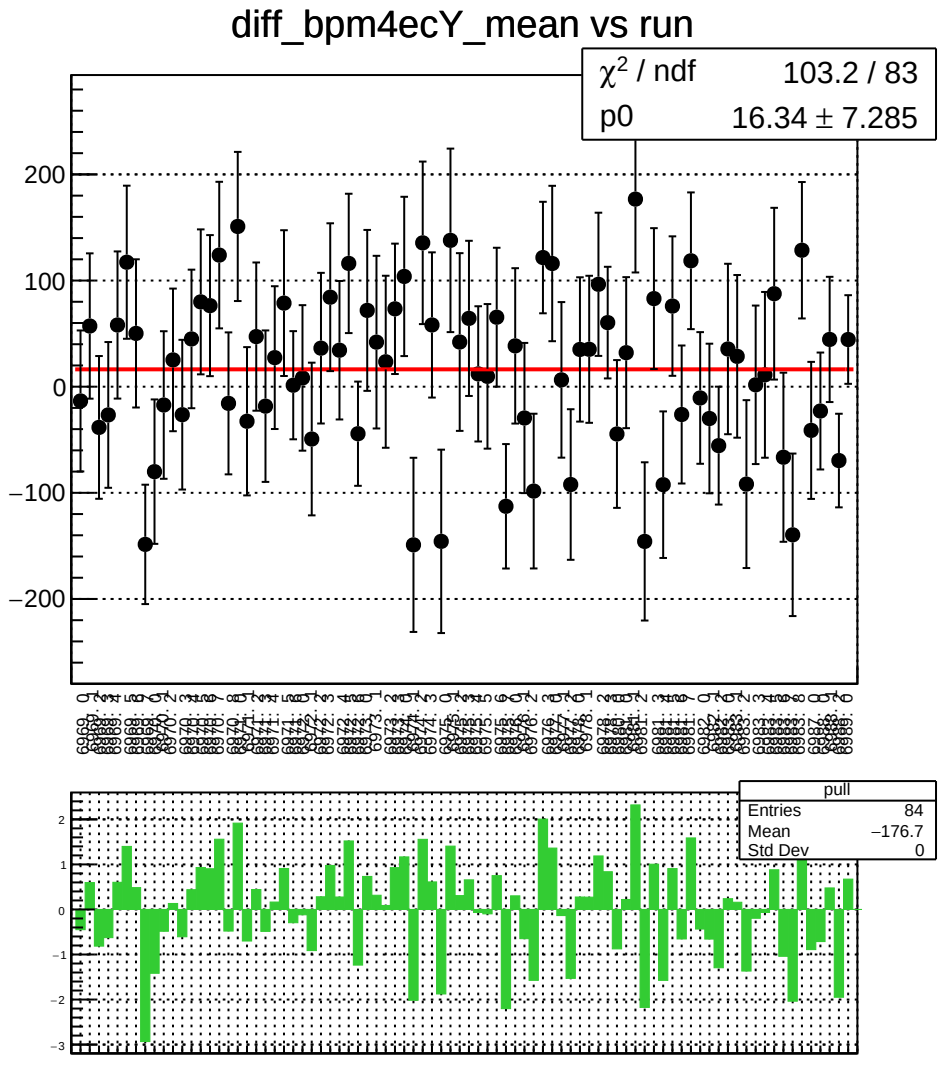

pull1D
Entries 84
Mean 0.009506
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

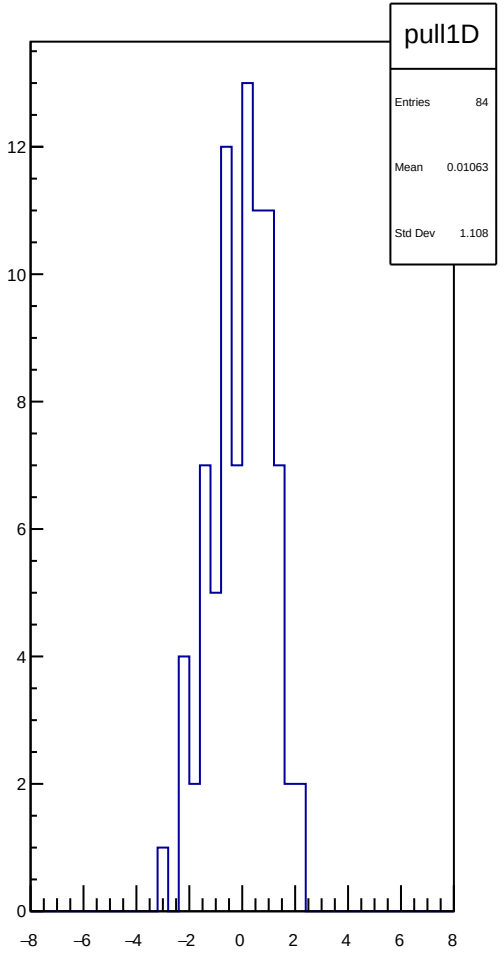

diff_bpm4acY_rms vs run
χ² / ndf 7533 / 83
p0 7213 ± 5.588
8500
8000
7500
7000
6500
6000

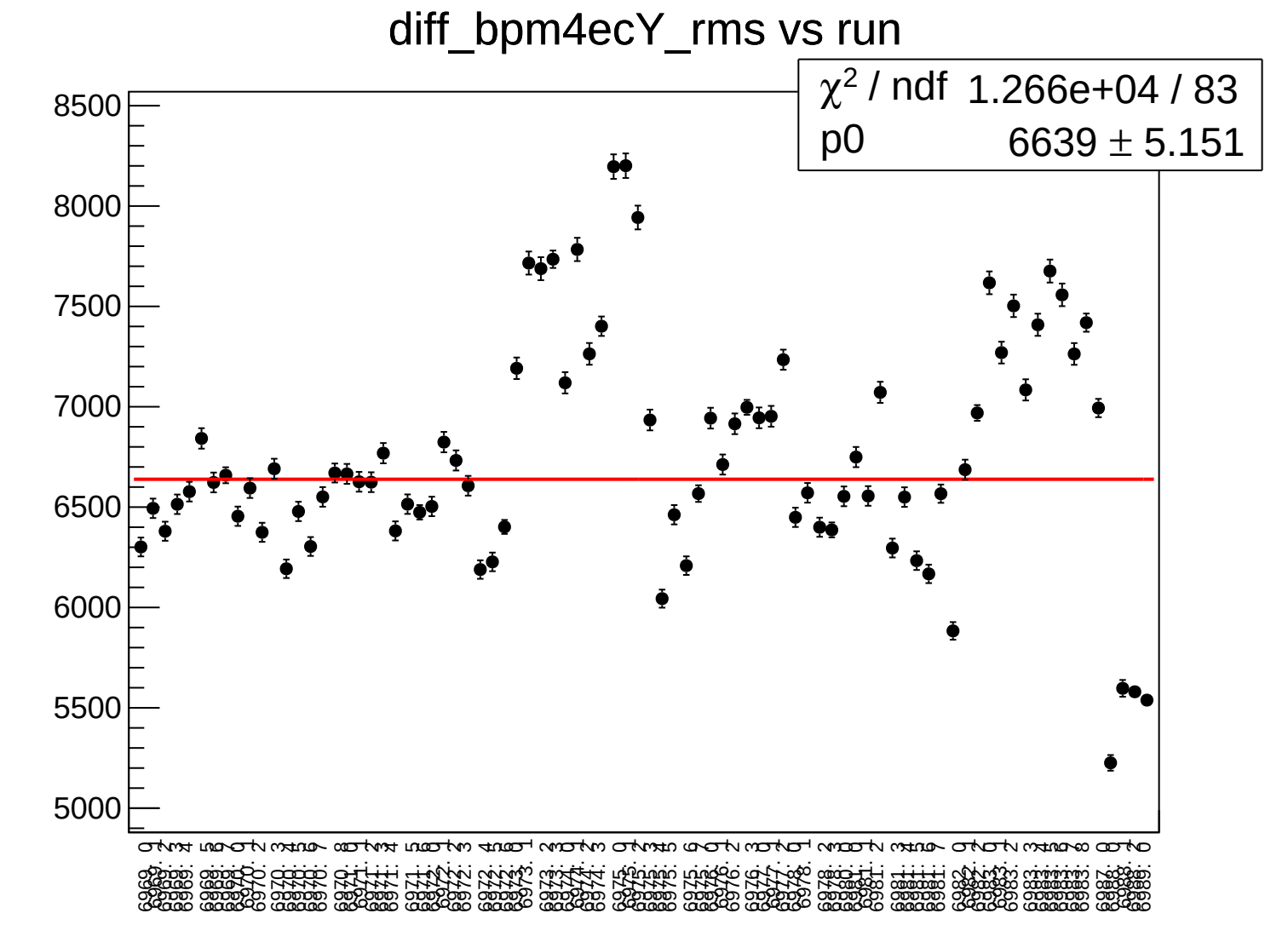

diff_bpm4ecX_mean vs run
χ² / ndf 84.29 / 83
p0 5.016 ± 10.8
pull
Entries 84
Mean −440.2
Std Dev 0

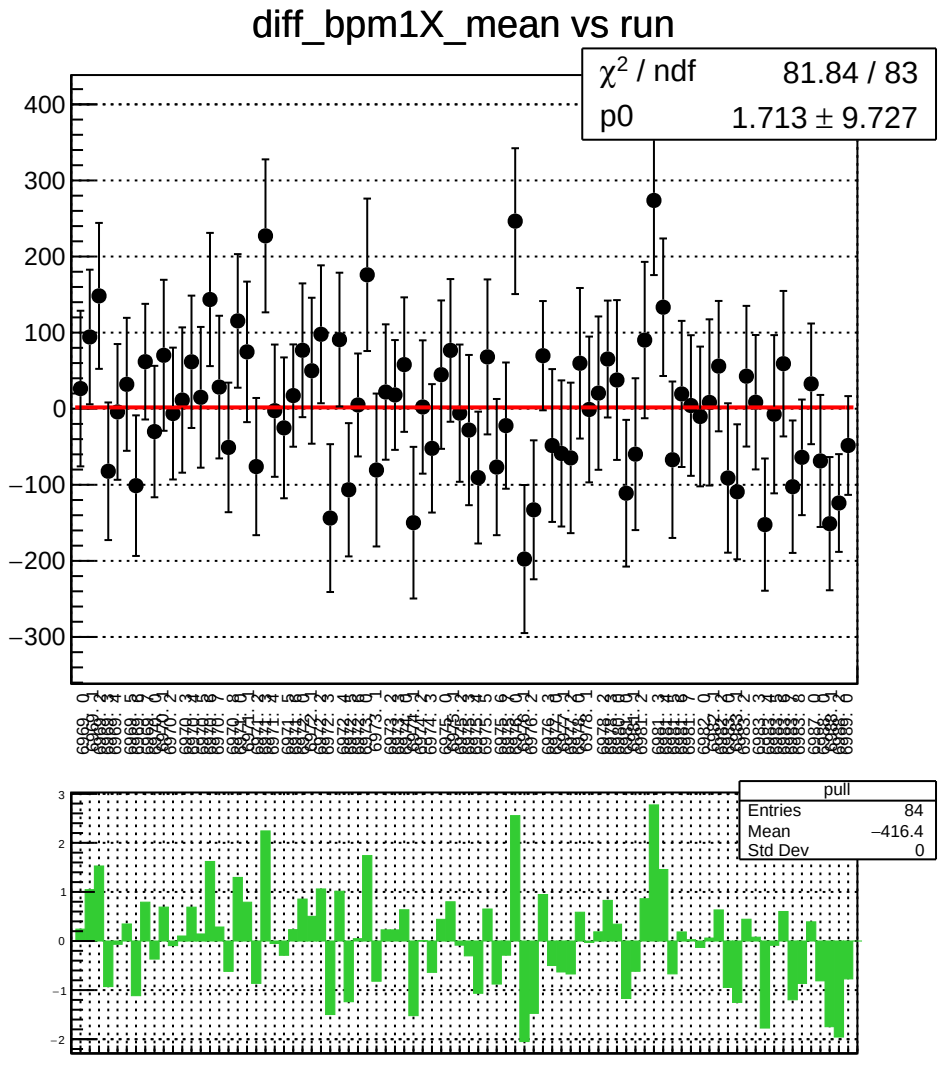

pull1D
Entries 84
Mean 0.01316
Std Dev 1.002

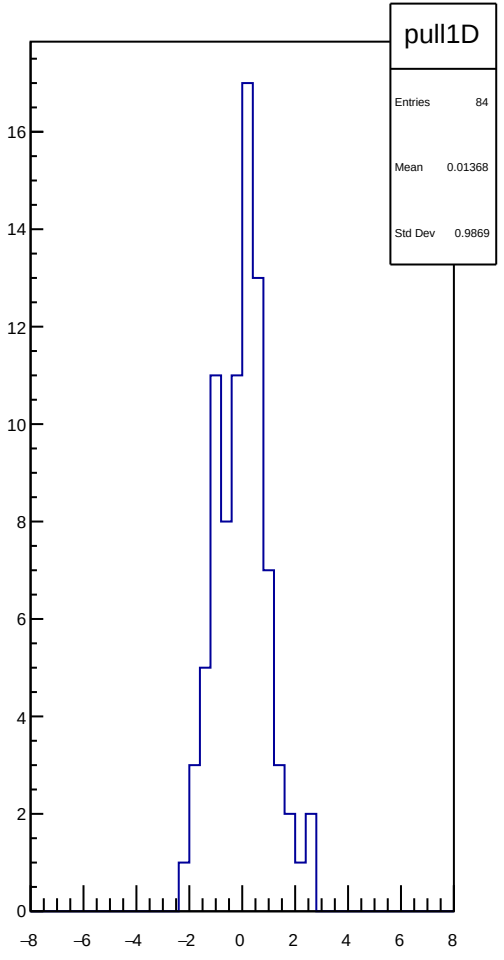

diff_bpm4ecX_rms vs run
χ² / ndf 6010 / 83
p0 9860 ± 7.636
11500
11000
10500
10000
9500
9000

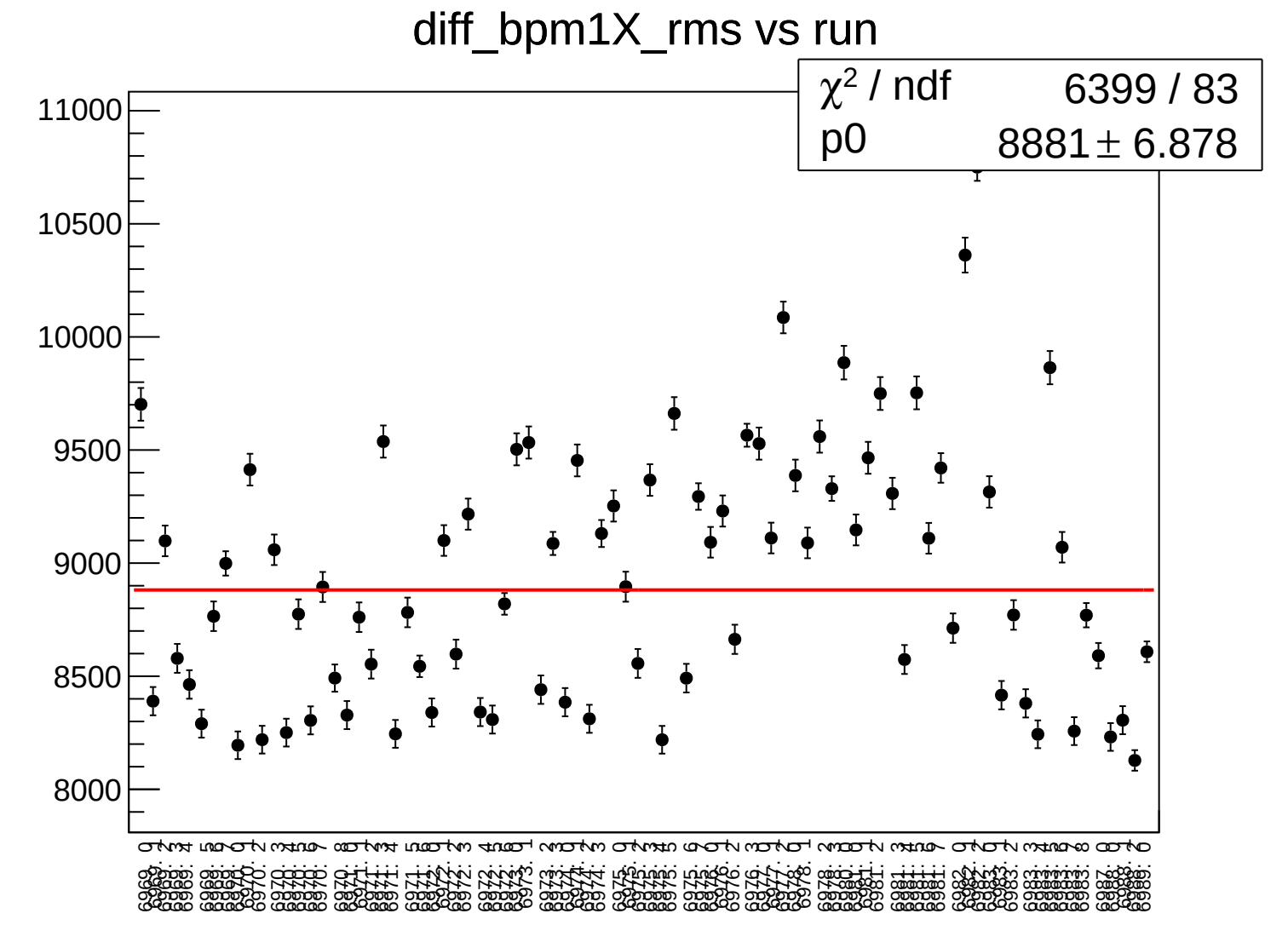

diff_bpm4ecY_mean vs run
χ² / ndf 103.2 / 83
p0 16.34 ± 7.285
200
100
0
−100
−200
pull
Entries 84
Mean −176.7
Std Dev 0
2
1
0
−1
−2
−3

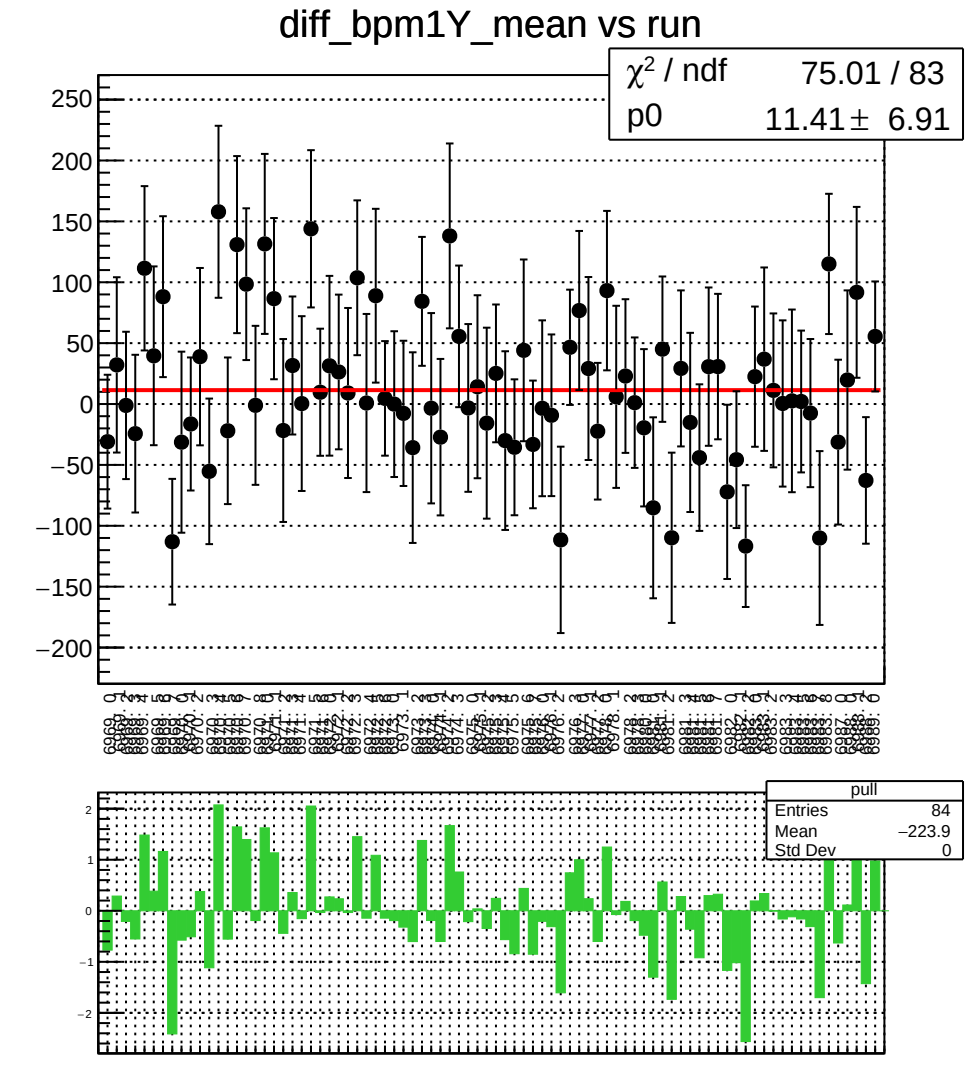

pull1D
Entries 84
Mean 0.01063
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

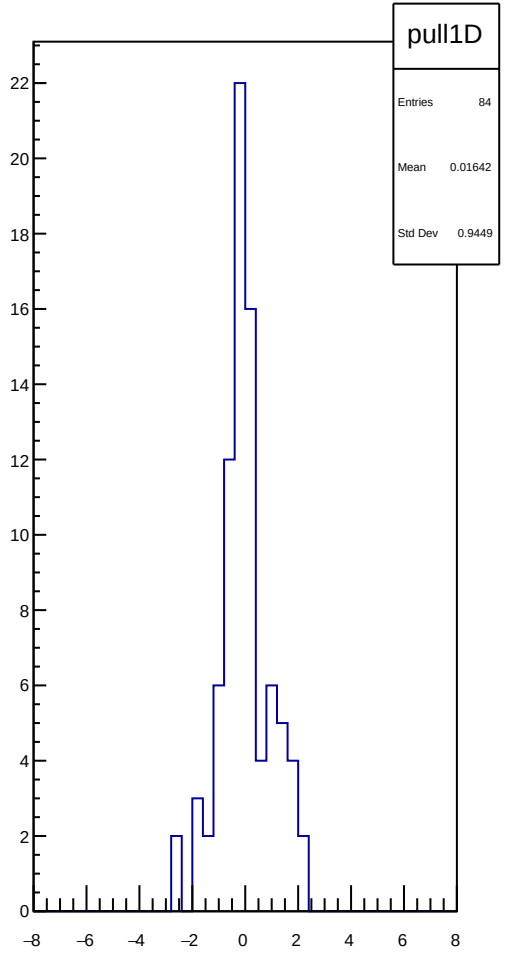

diff_bpm4ecY_rms vs run
χ² / ndf 1.266e+04 / 83
p0 6639 ± 5.151
8500
8000
7500
7000
6500
6000
5500
5000

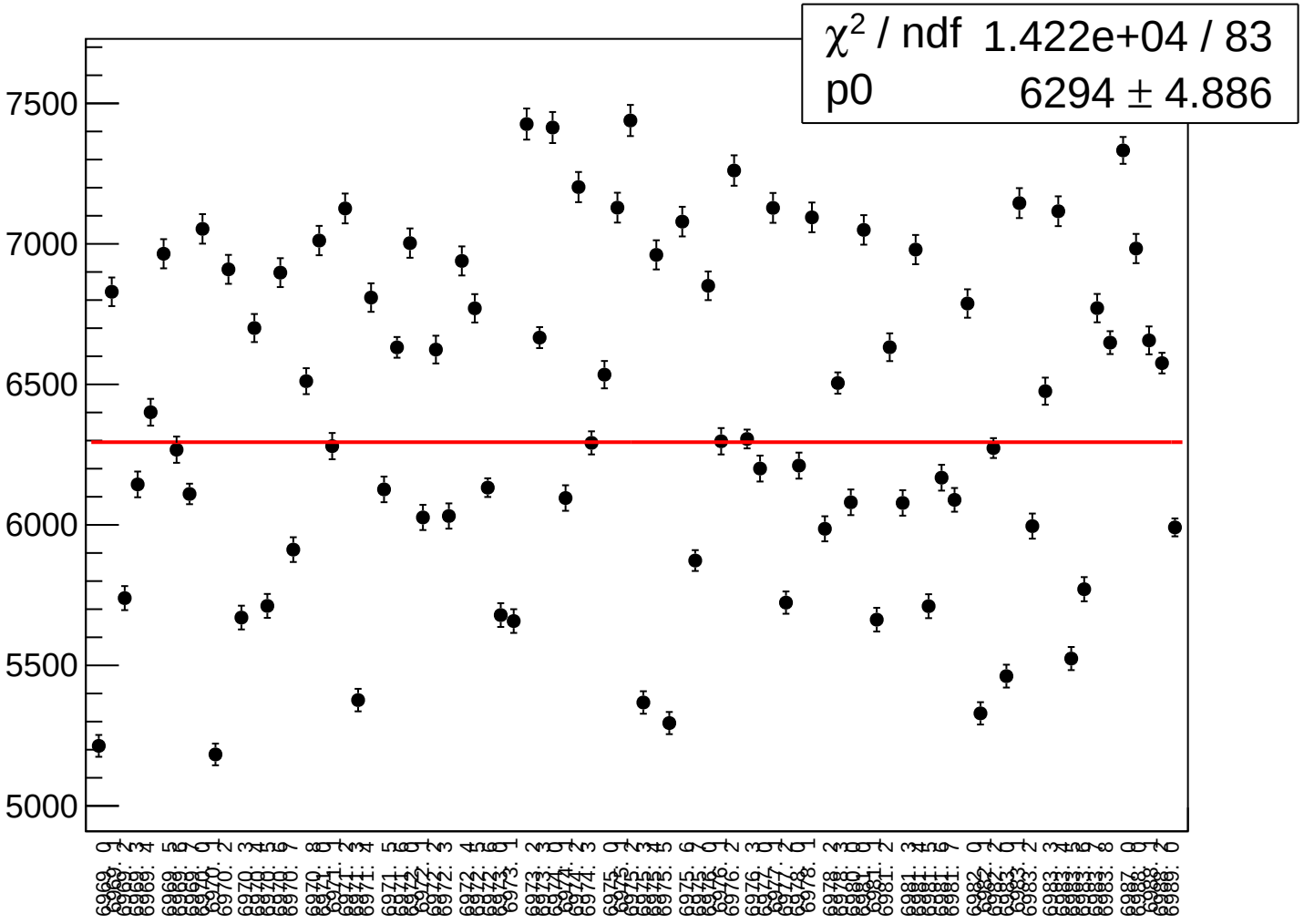

diff_bpm1X_mean vs run
χ^2 / ndf 81.84 / 83
p0 1.713 ± 9.727
pull
Entries 84
Mean −416.4
Std Dev 0

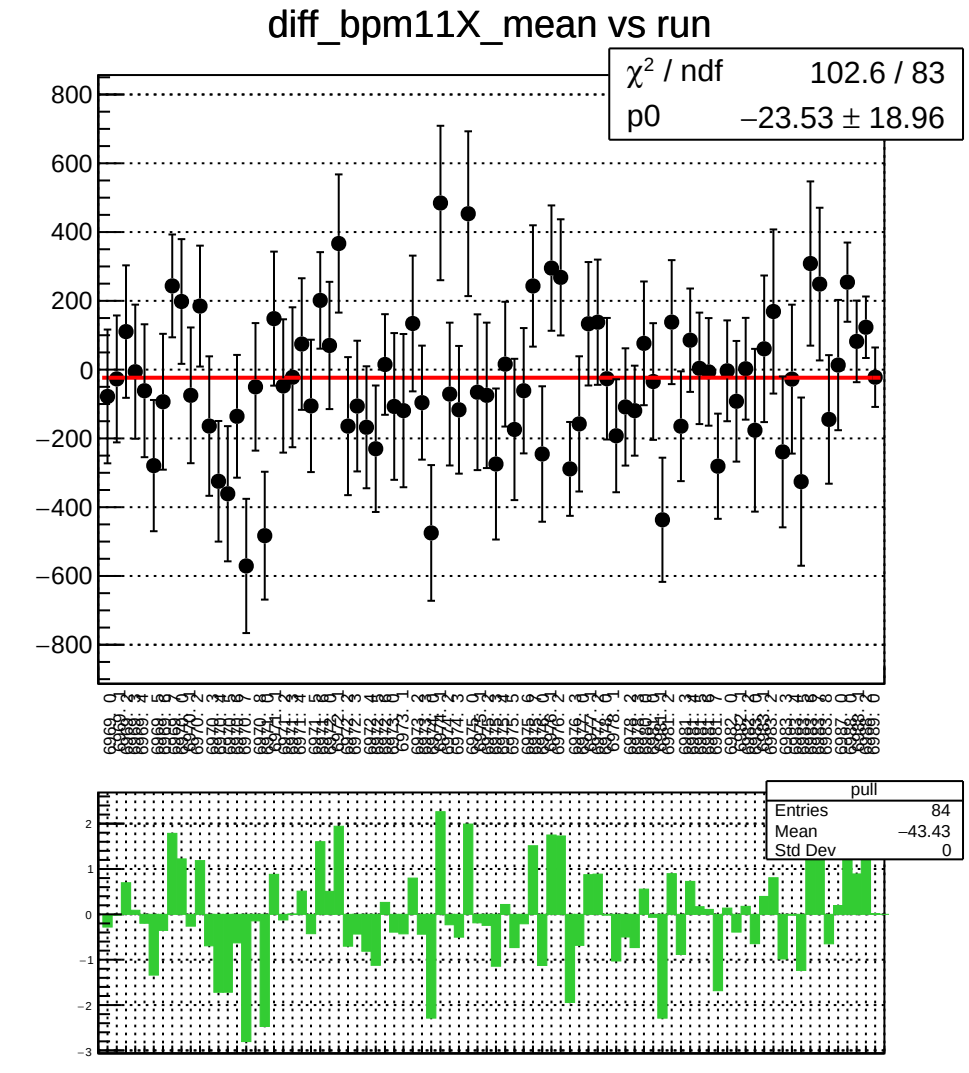

pull1D
Entries 84
Mean 0.01368
Std Dev 0.9869

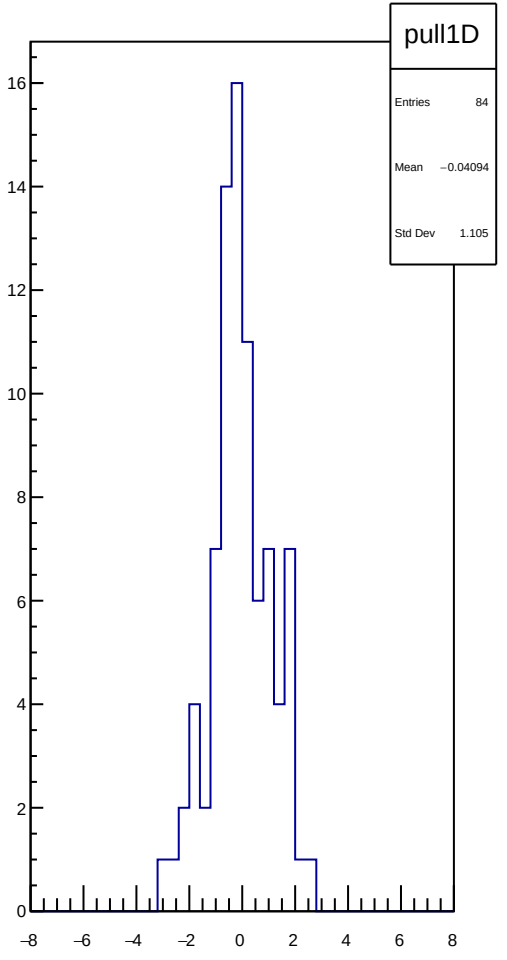

diff_bpm1X_rms vs run
χ² / ndf 6399 / 83
p0 8881 ± 6.878
11000
10500
10000
9500
9000
8500
8000

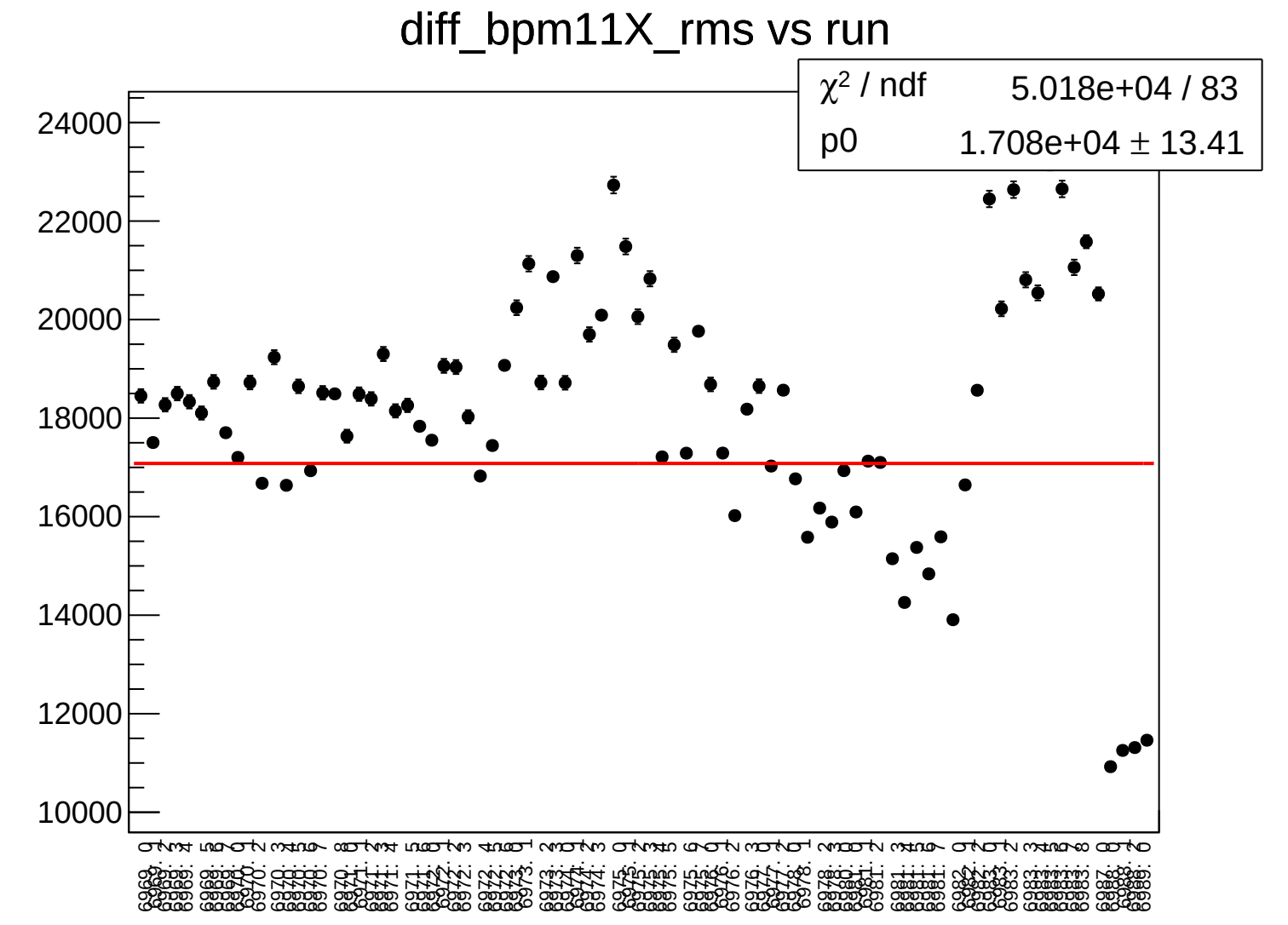

diff_bpm1Y_mean vs run
χ² / ndf 75.01 / 83
p0 11.41 ± 6.91
pull
Entries 84
Mean −223.9
Std Dev 0

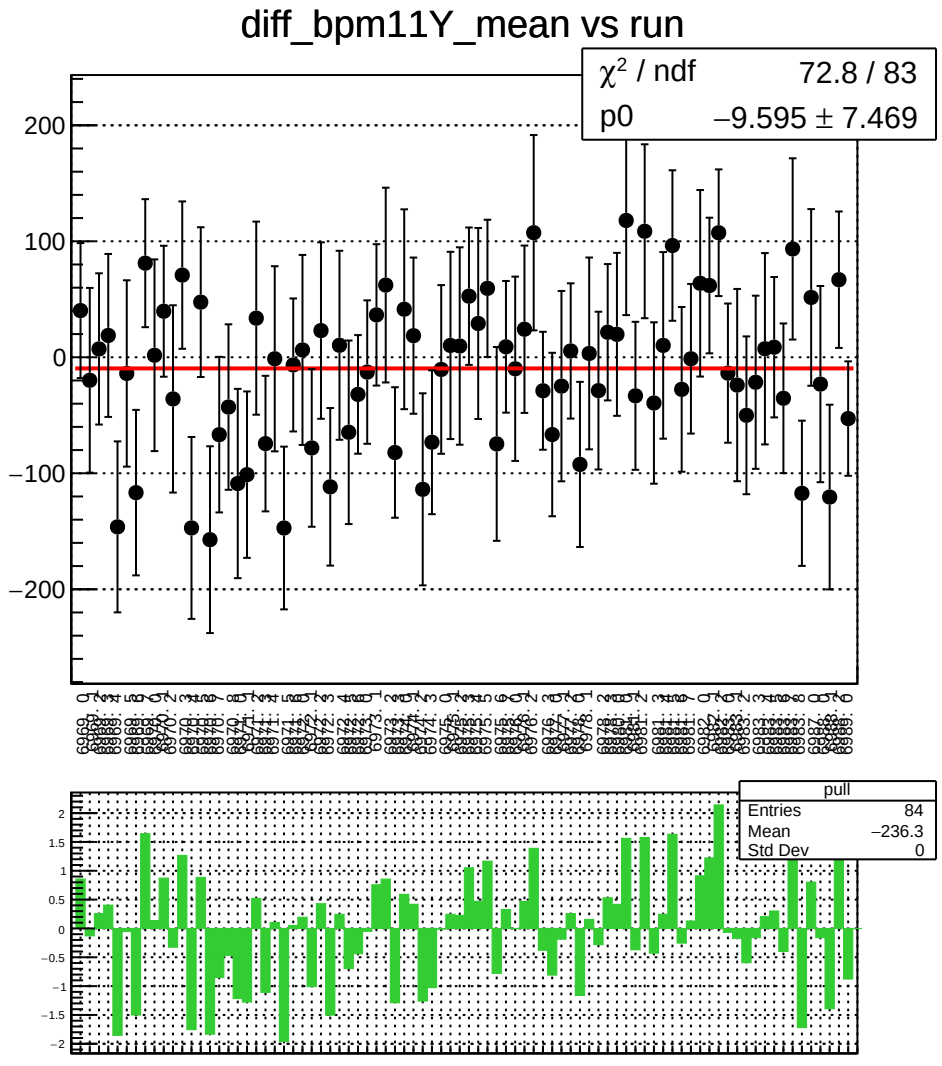

pull1D
Entries 84
Mean 0.01642
Std Dev 0.9449

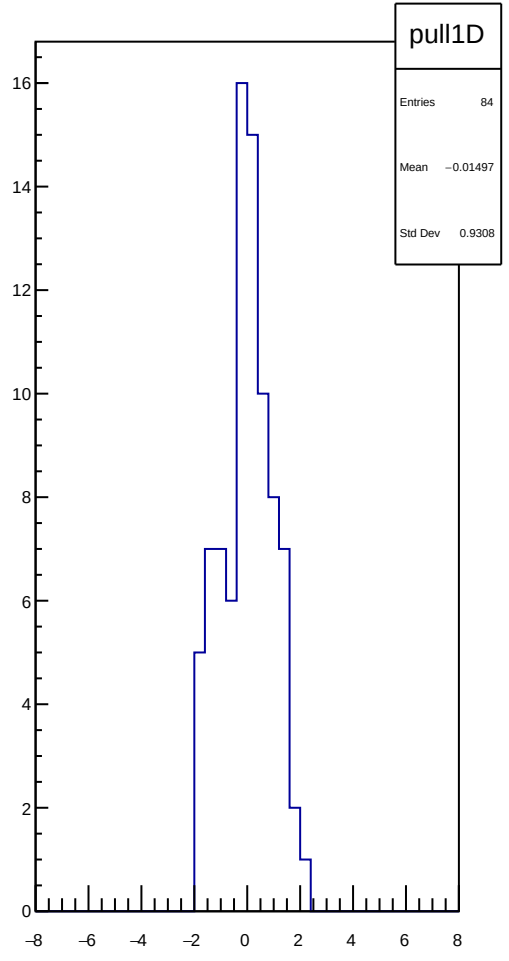

diff_bpm1Y_rms vs run
χ^2 / ndf 1.422e+04 / 83
p0 6294 ± 4.886
7500
7000
6500
6000
5500
5000

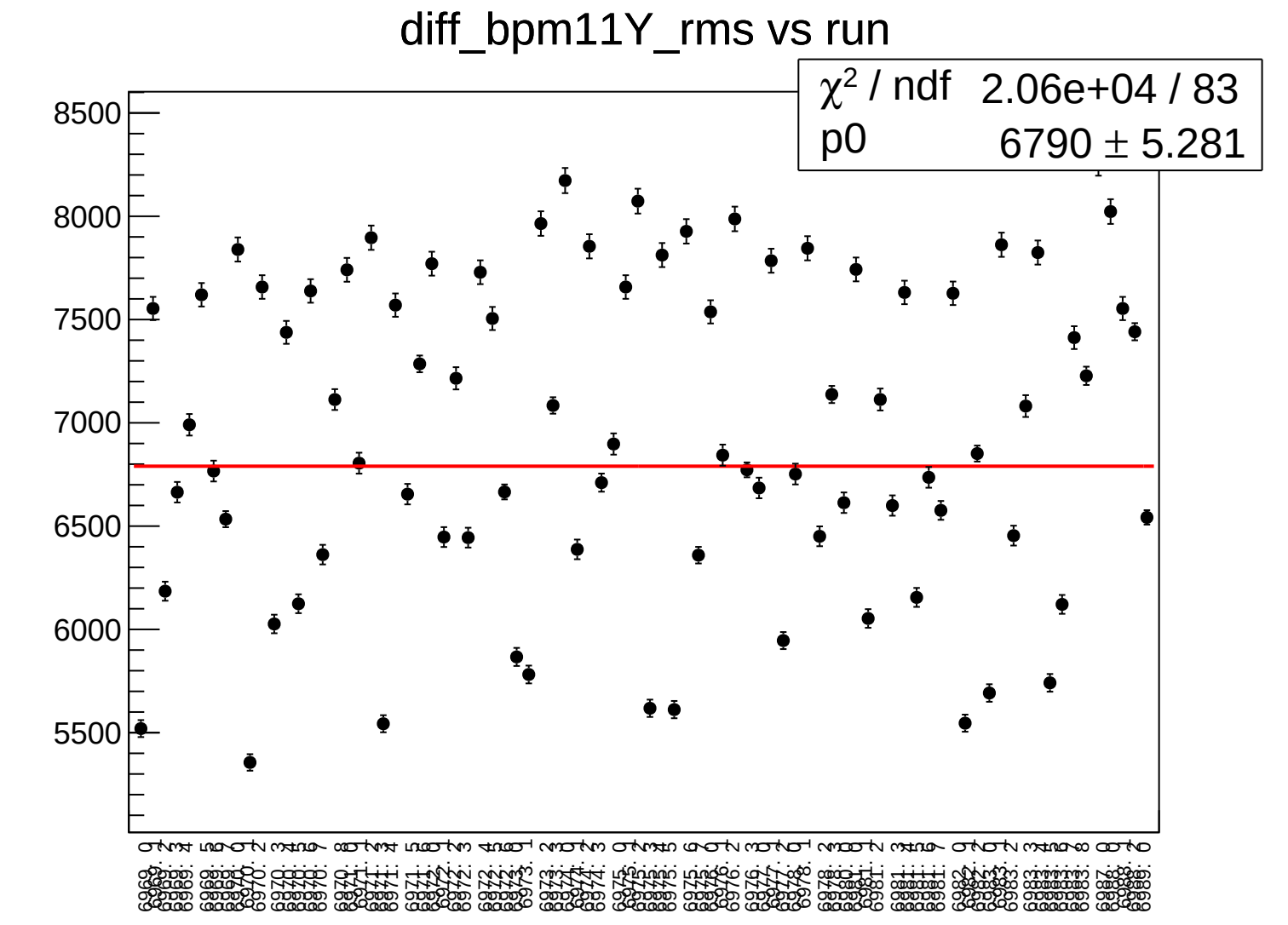

diff_bpm11X_mean vs run
χ² / ndf 102.6 / 83
p0 −23.53 ± 18.96
pull
Entries 84
Mean −43.43
Std Dev 0

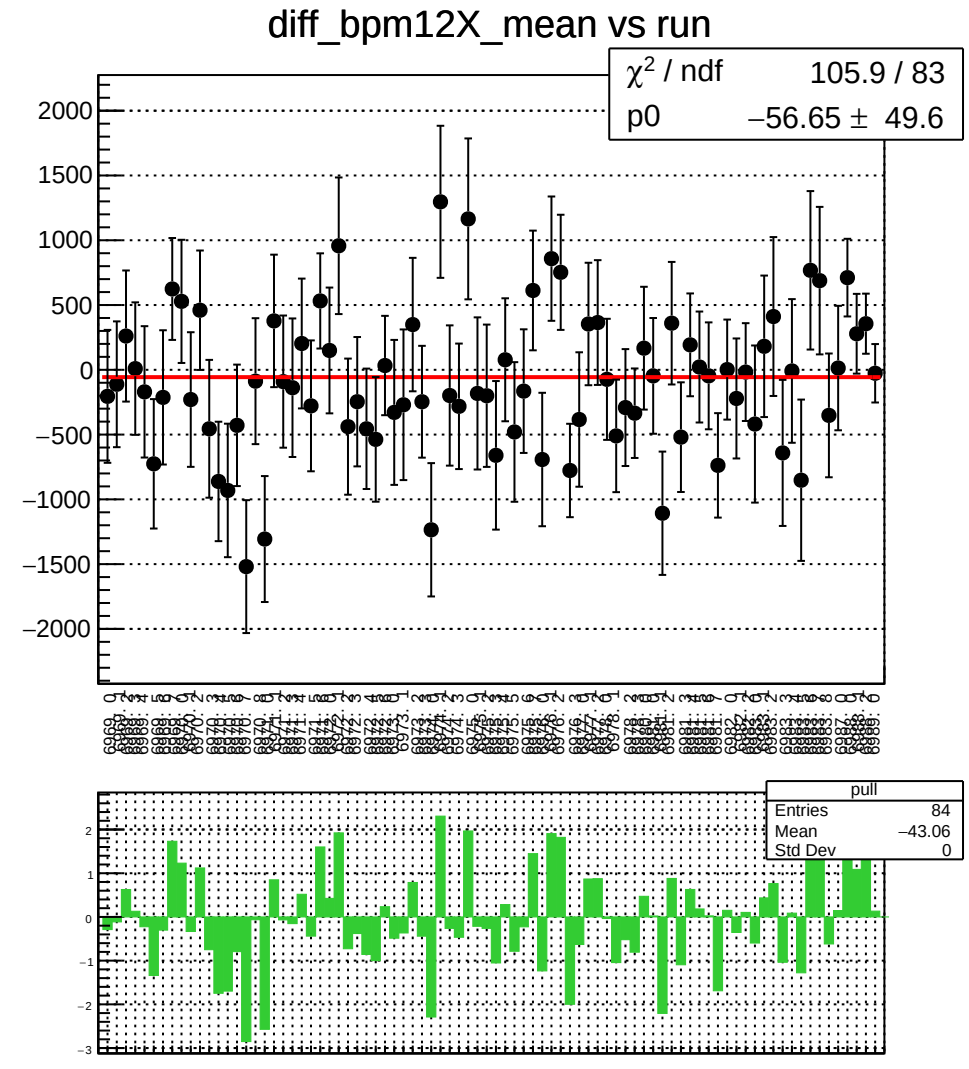

pull1D
Entries 84
Mean −0.04094
Std Dev 1.105

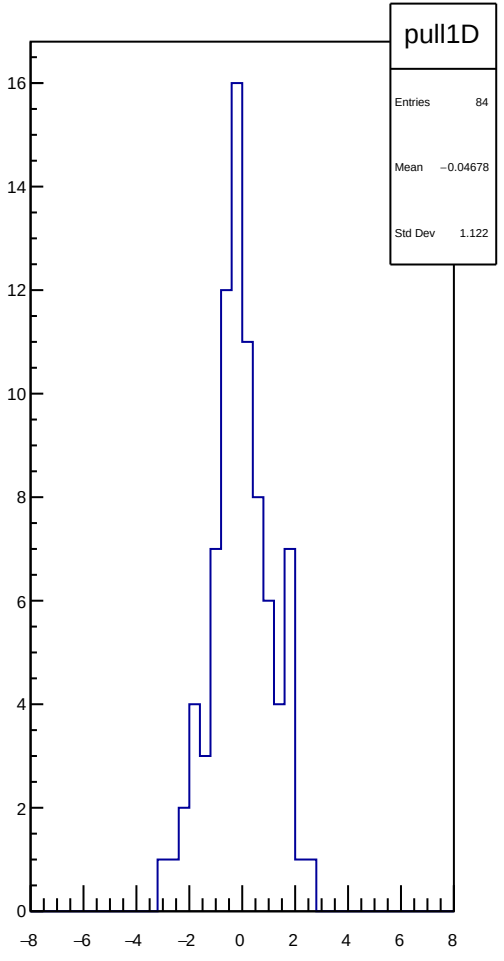

diff_bpm11X_rms vs run
χ² / ndf 5.018e+04 / 83
p0 1.708e+04 ± 13.41
24000
22000
20000
18000
16000
14000
12000
10000

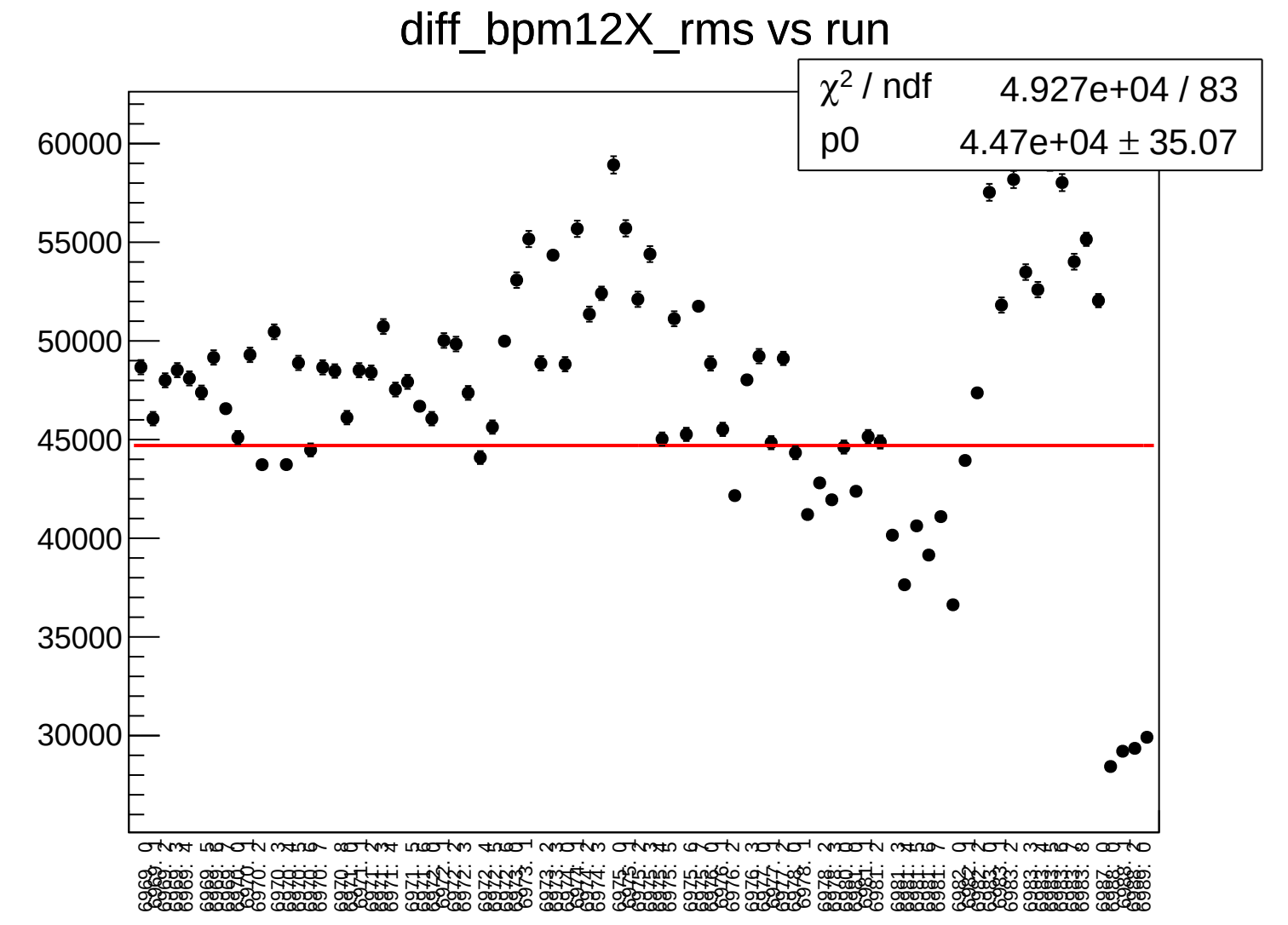

diff_bpm11Y_mean vs run
χ² / ndf 72.8 / 83
p0 −9.595 ± 7.469
200
100
0
−100
−200
pull
Entries 84
Mean −236.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

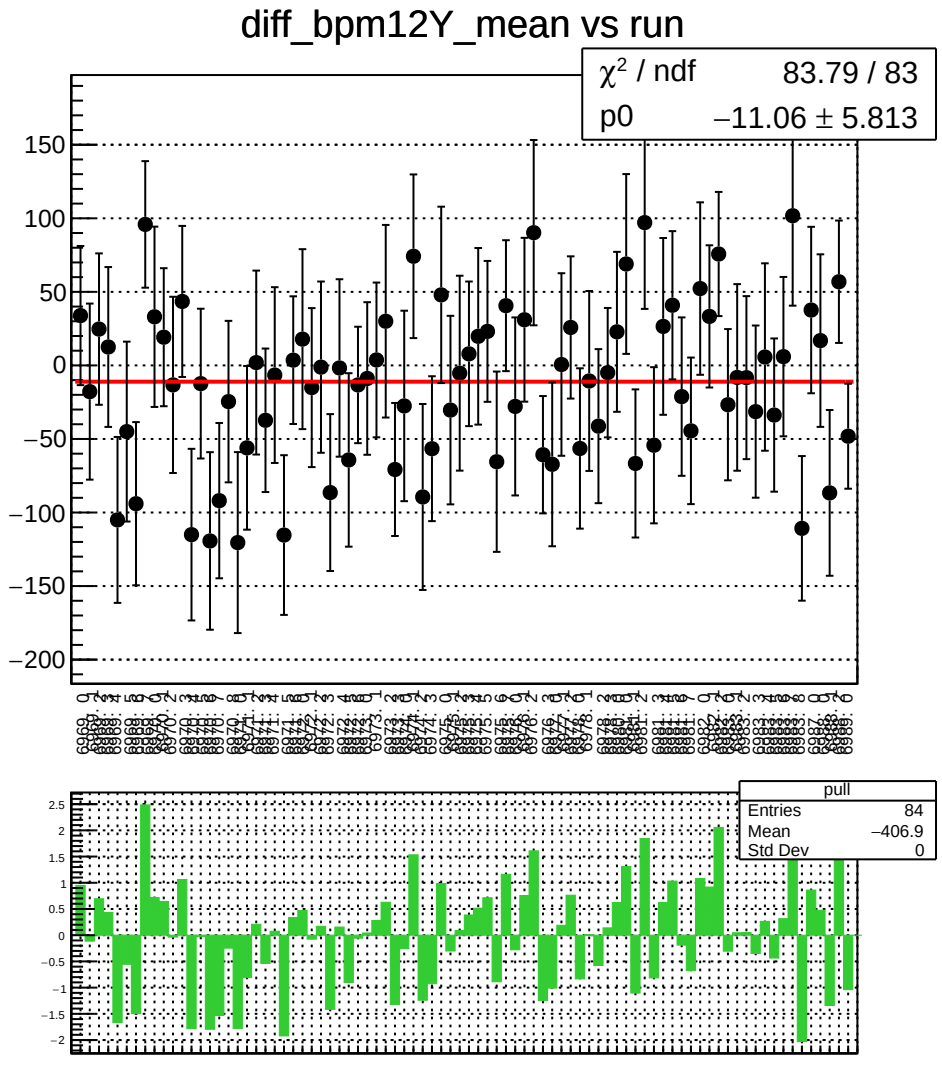

pull1D
Entries 84
Mean −0.01497
Std Dev 0.9308
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

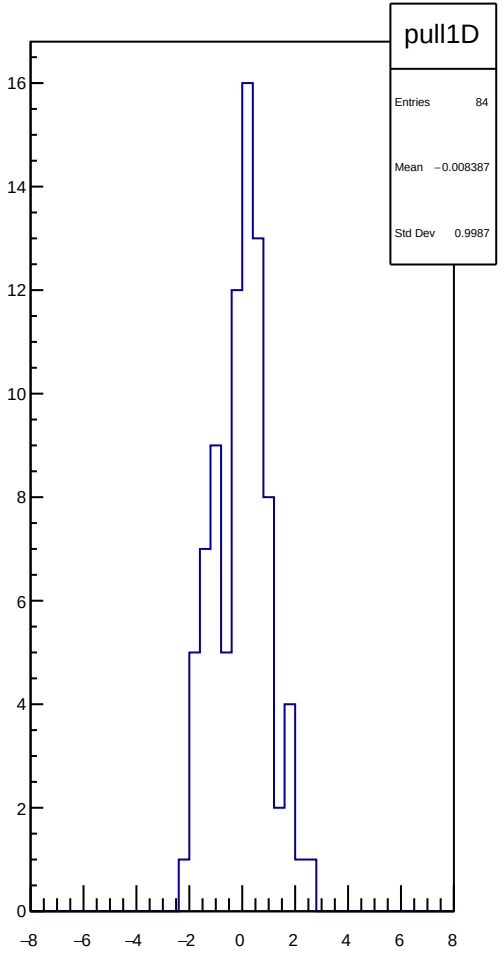

diff_bpm11Y_rms vs run
χ² / ndf 2.06e+04 / 83
p0 6790 ± 5.281
8500
8000
7500
7000
6500
6000
5500

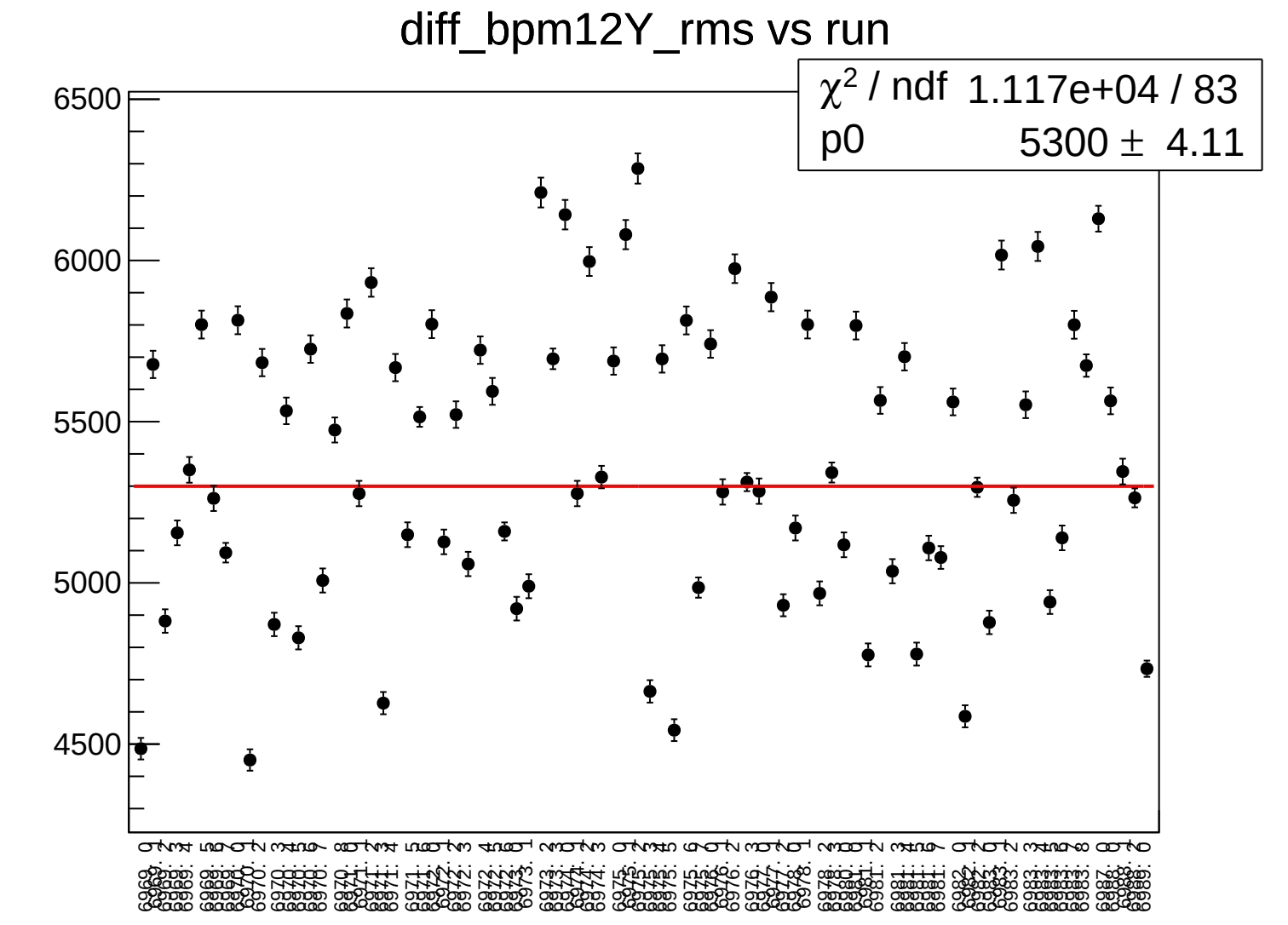

diff_bpm12X_mean vs run
χ² / ndf 105.9 / 83
p0 −56.65 ± 49.6
pull
Entries 84
Mean −43.06
Std Dev 0

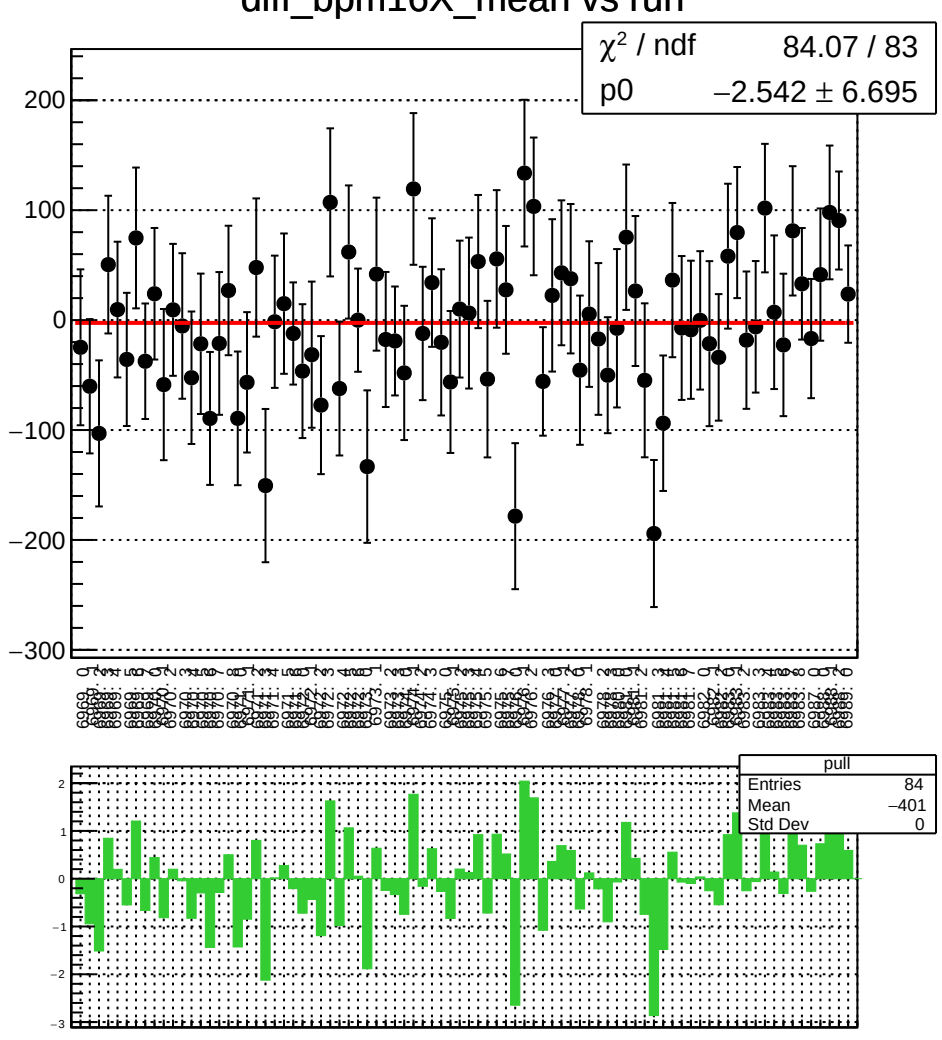

pull1D
Entries 84
Mean −0.04678
Std Dev 1.122

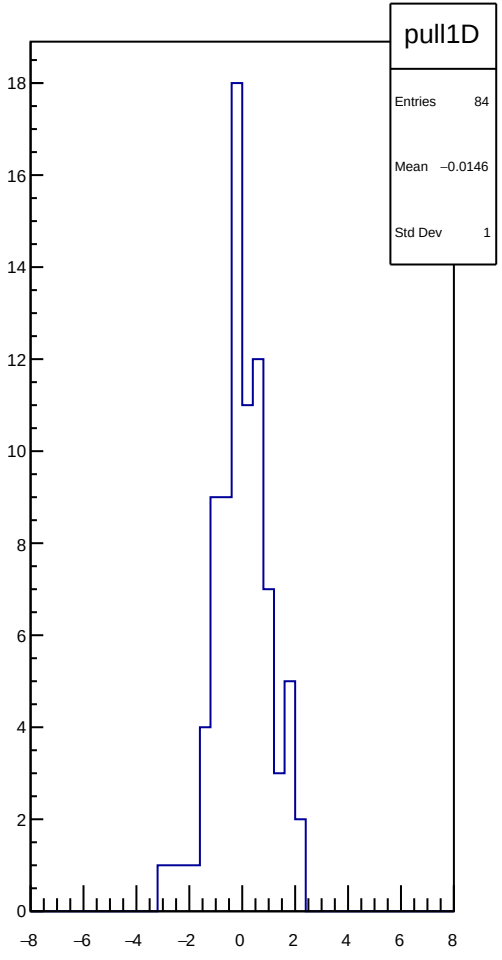

diff_bpm12X_rms vs run
χ^2 / ndf 4.927e+04 / 83
p0 4.47e+04 ± 35.07
60000
55000
50000
45000
40000
35000
30000

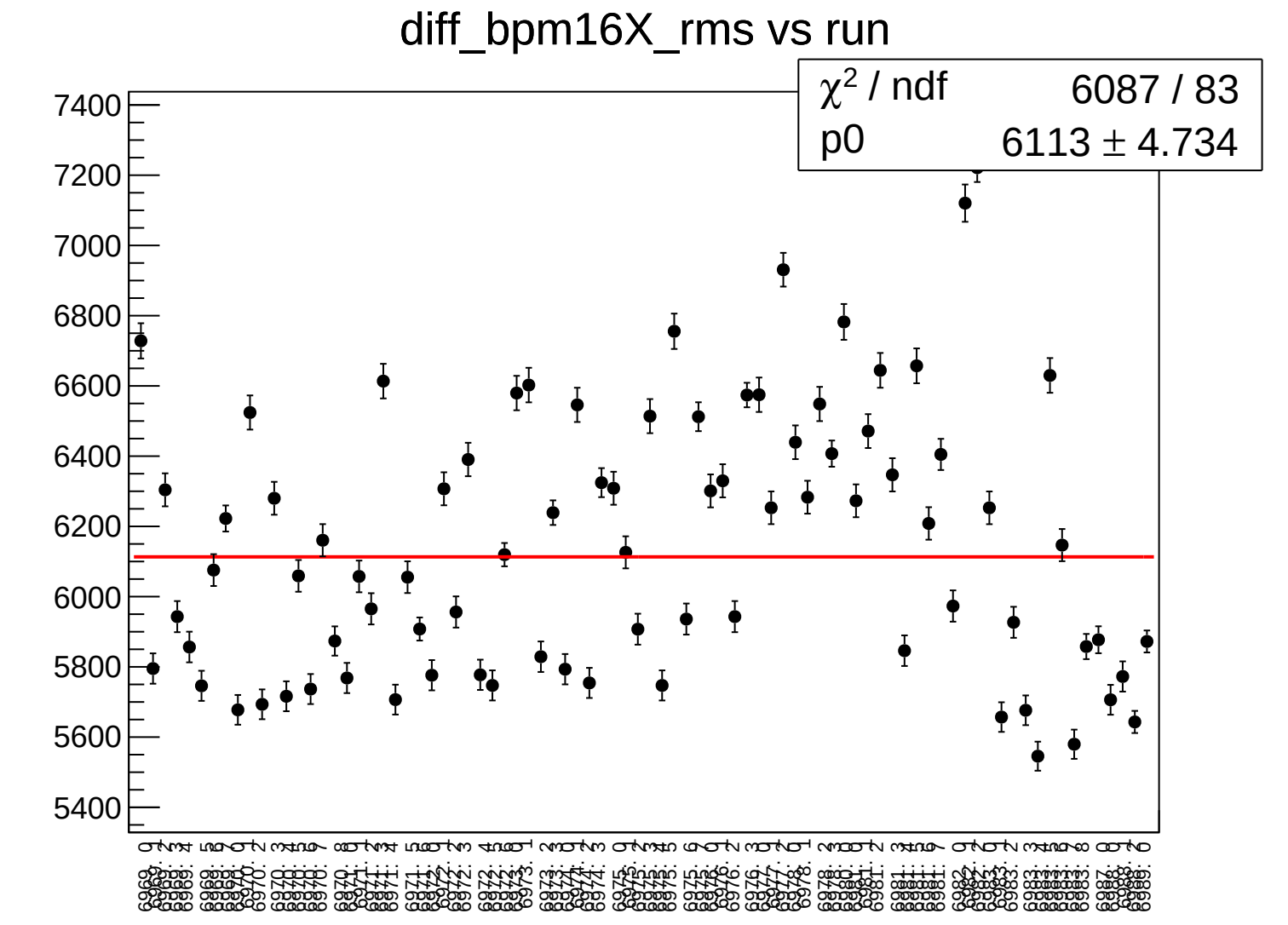

diff_bpm12Y_mean vs run
χ² / ndf 83.79 / 83
p0 −11.06 ± 5.813
pull
Entries 84
Mean −406.9
Std Dev 0

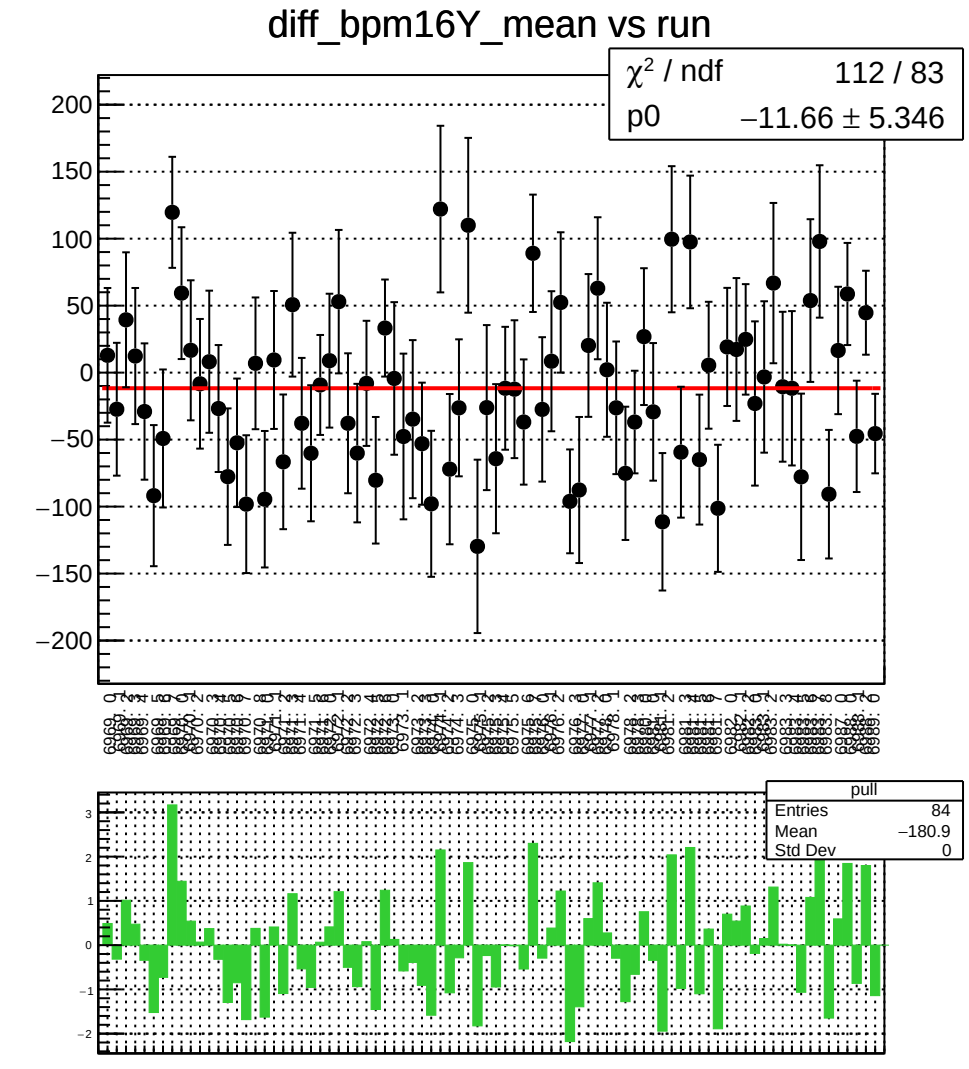

pull1D
Entries 84
Mean −0.008387
Std Dev 0.9987

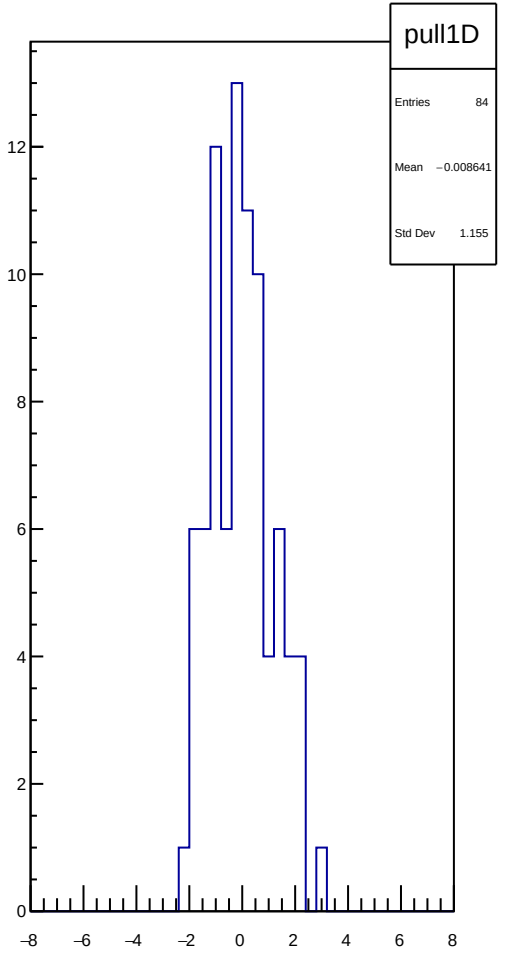

diff_bpm12Y_rms vs run
χ² / ndf 1.117e+04 / 83
p0 5300 ± 4.11
6500
6000
5500
5000
4500

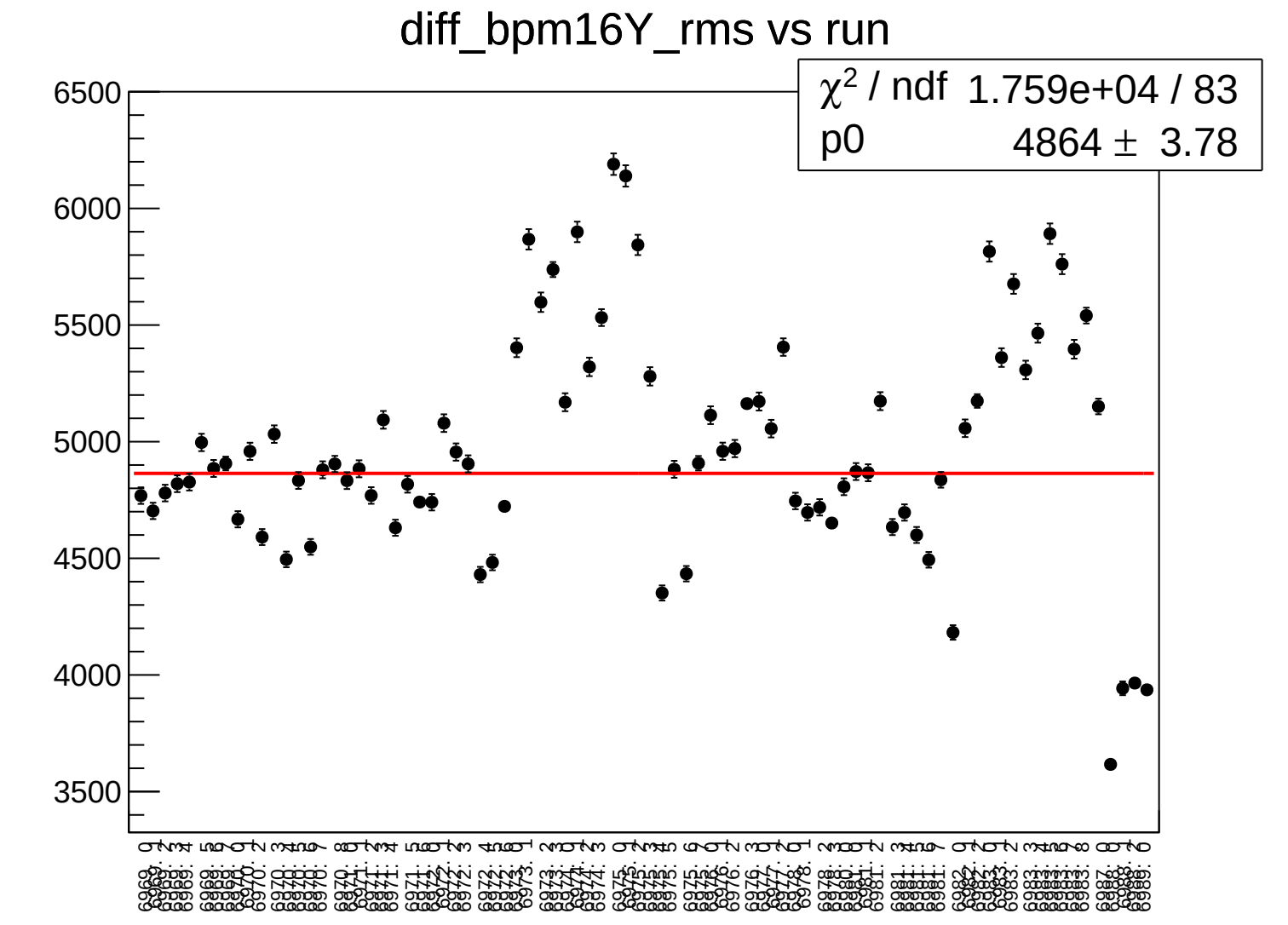

diff_bpm16X_mean vs run
χ² / ndf 84.07 / 83
p0 −2.542 ± 6.695
pull
Entries 84
Mean −401
Std Dev 0

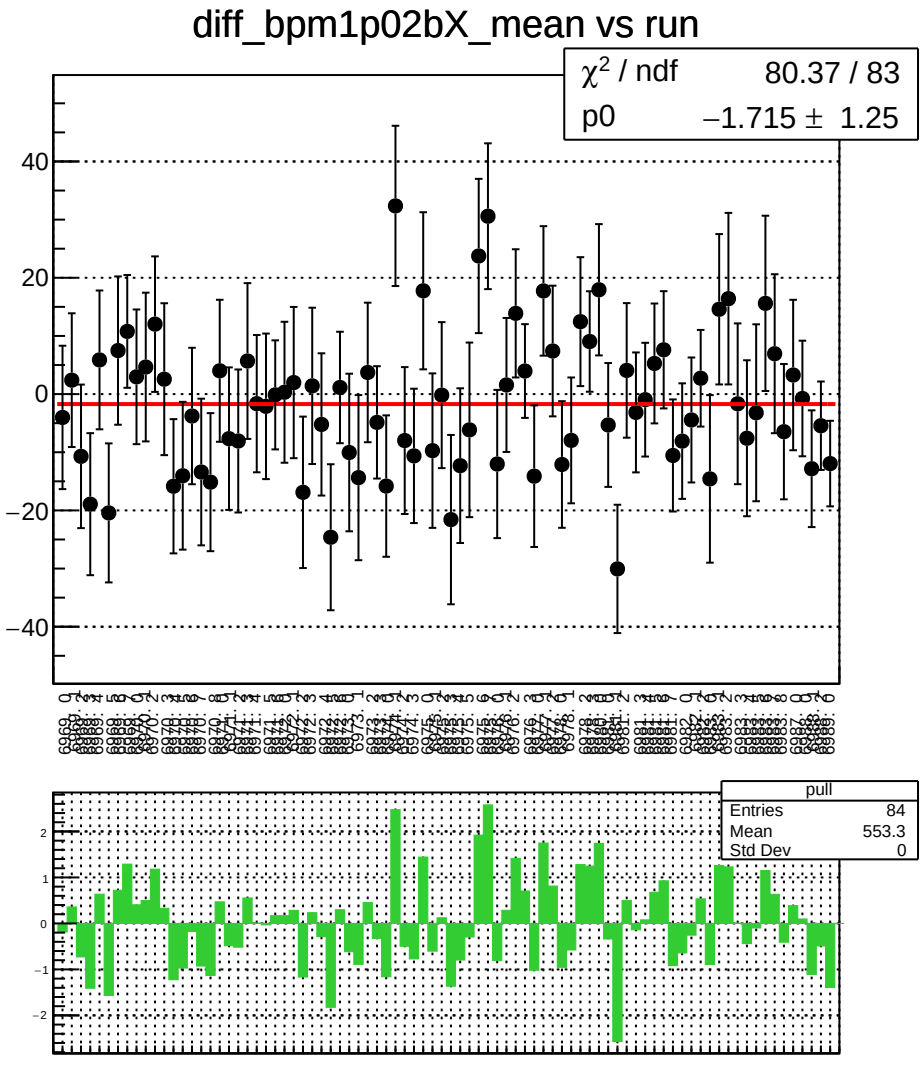

pull1D
Entries 84
Mean −0.0146
Std Dev 1

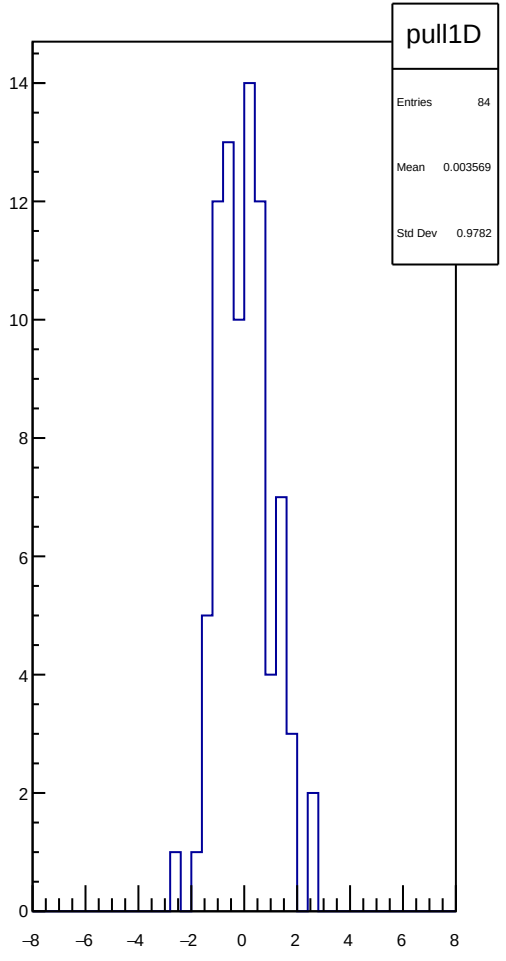

diff_bpm16X_rms vs run
χ^2 / ndf 6087 / 83
p0 6113 ± 4.734
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

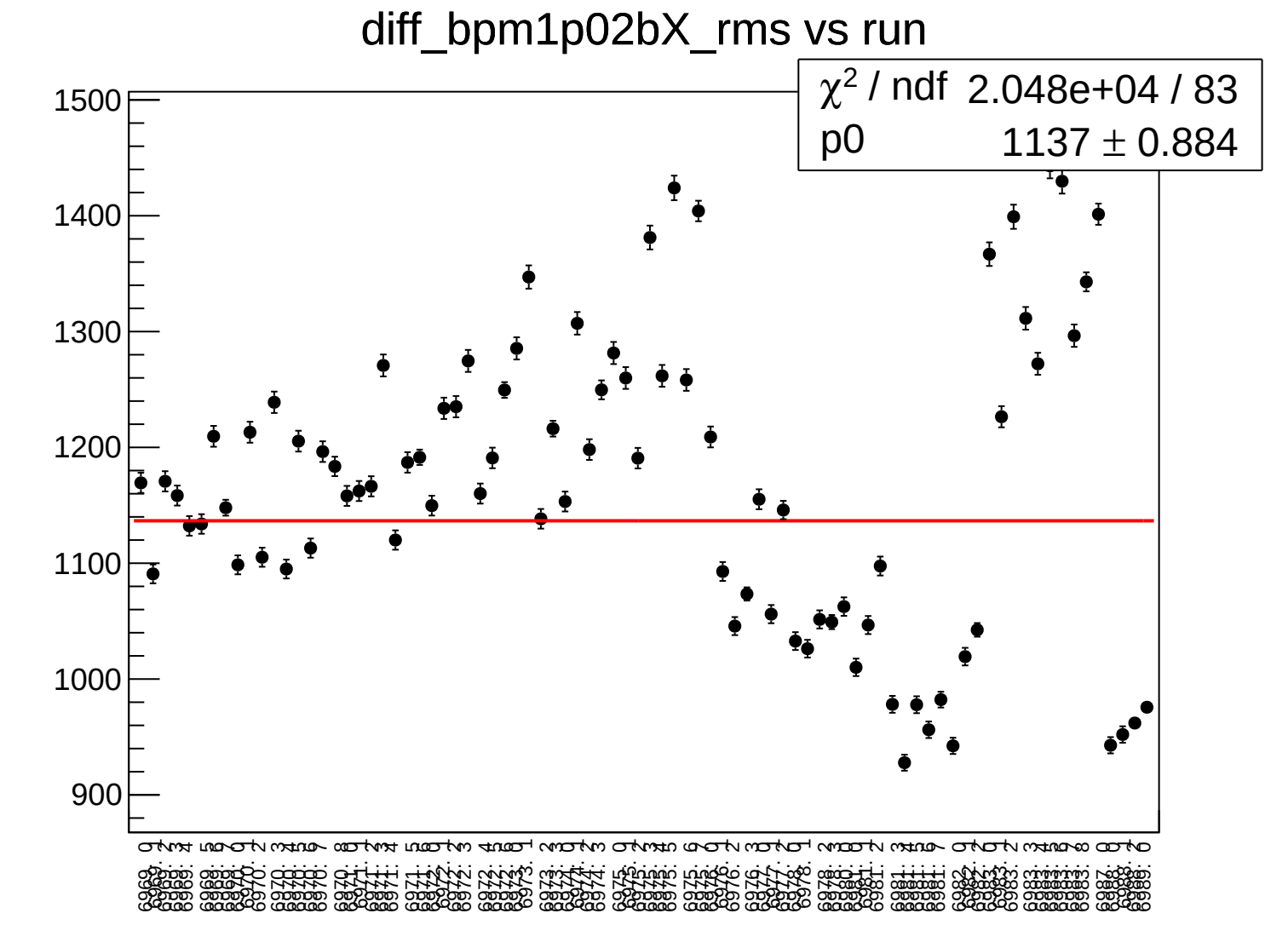

diff_bpm16Y_mean vs run
χ² / ndf 112 / 83
p0 −11.66 ± 5.346
pull
Entries 84
Mean −180.9
Std Dev 0

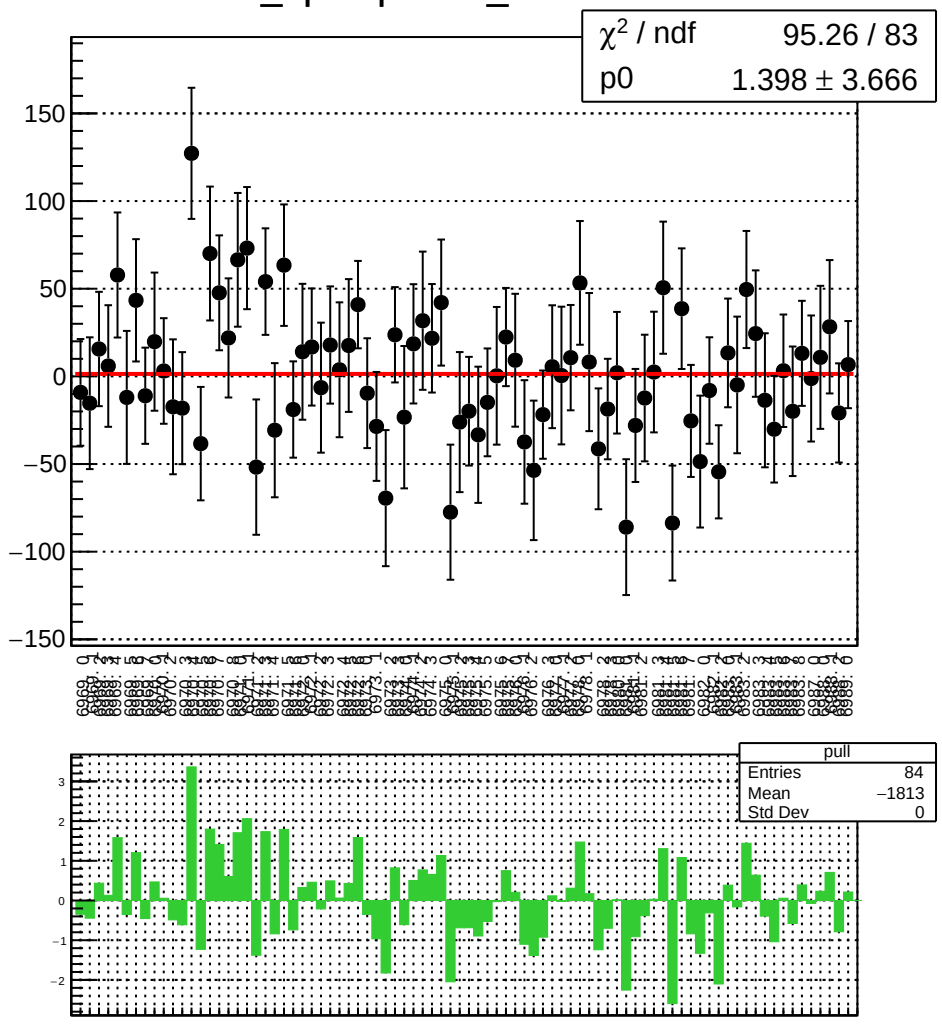

pull1D
Entries 84
Mean −0.008641
Std Dev 1.155

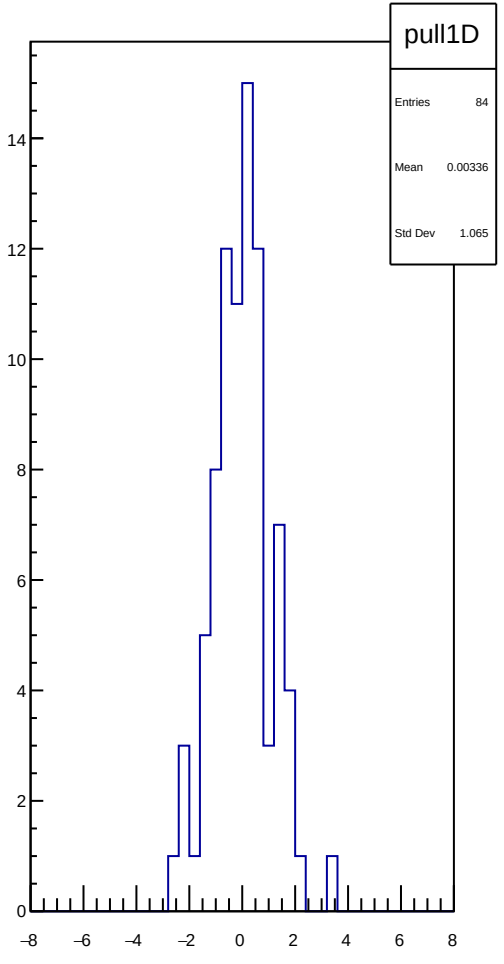

diff_bpm16Y_rms vs run
χ² / ndf 1.759e+04 / 83
p0 4864 ± 3.78
6500
6000
5500
5000
4500
4000
3500

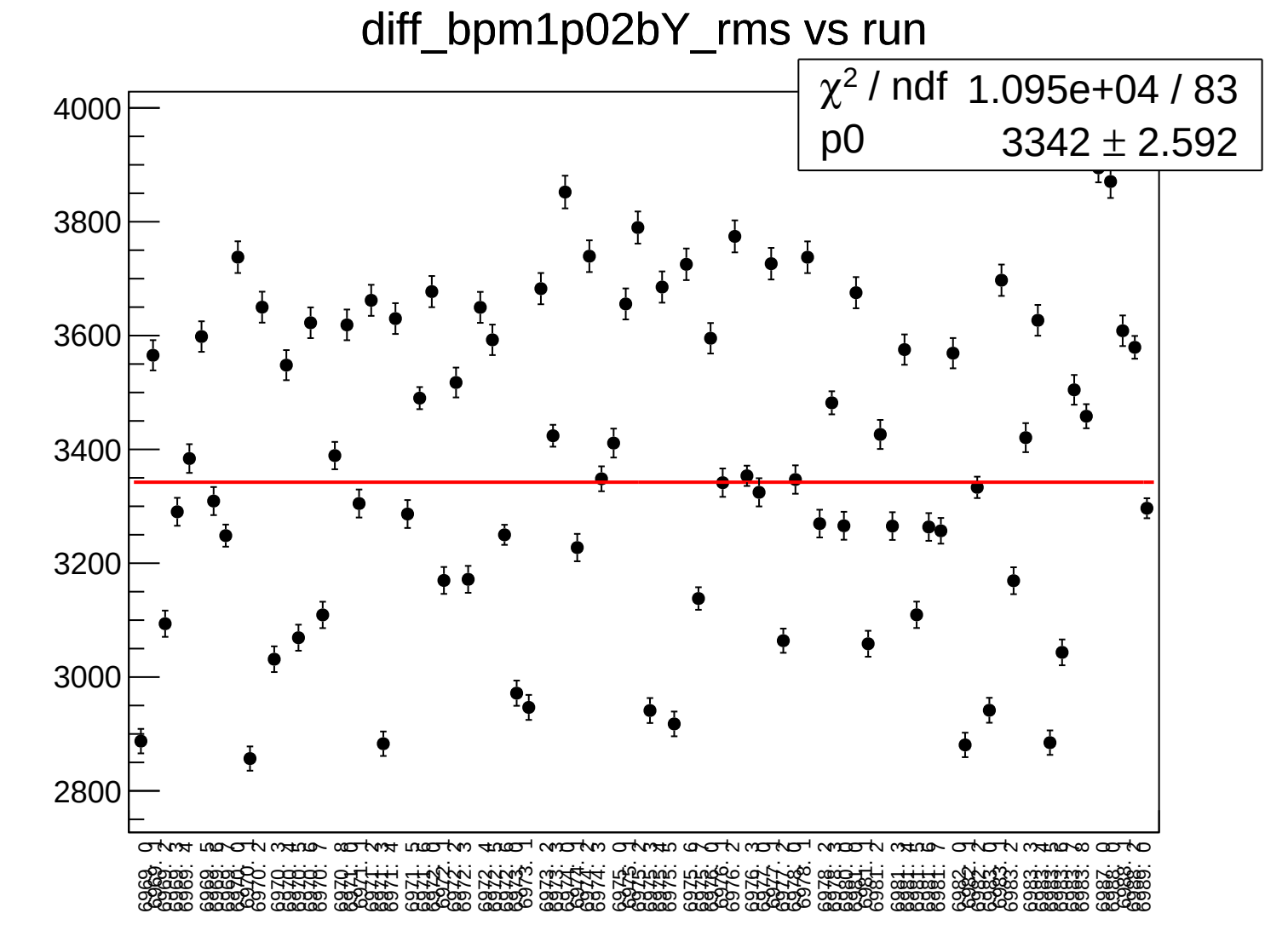

diff_bpm1p02bX_mean vs run
χ² / ndf 80.37 / 83
p0 −1.715 ± 1.25
40
20
0
−20
−40
pull
Entries 84
Mean 553.3
Std Dev 0
2
1
0
−1
−2

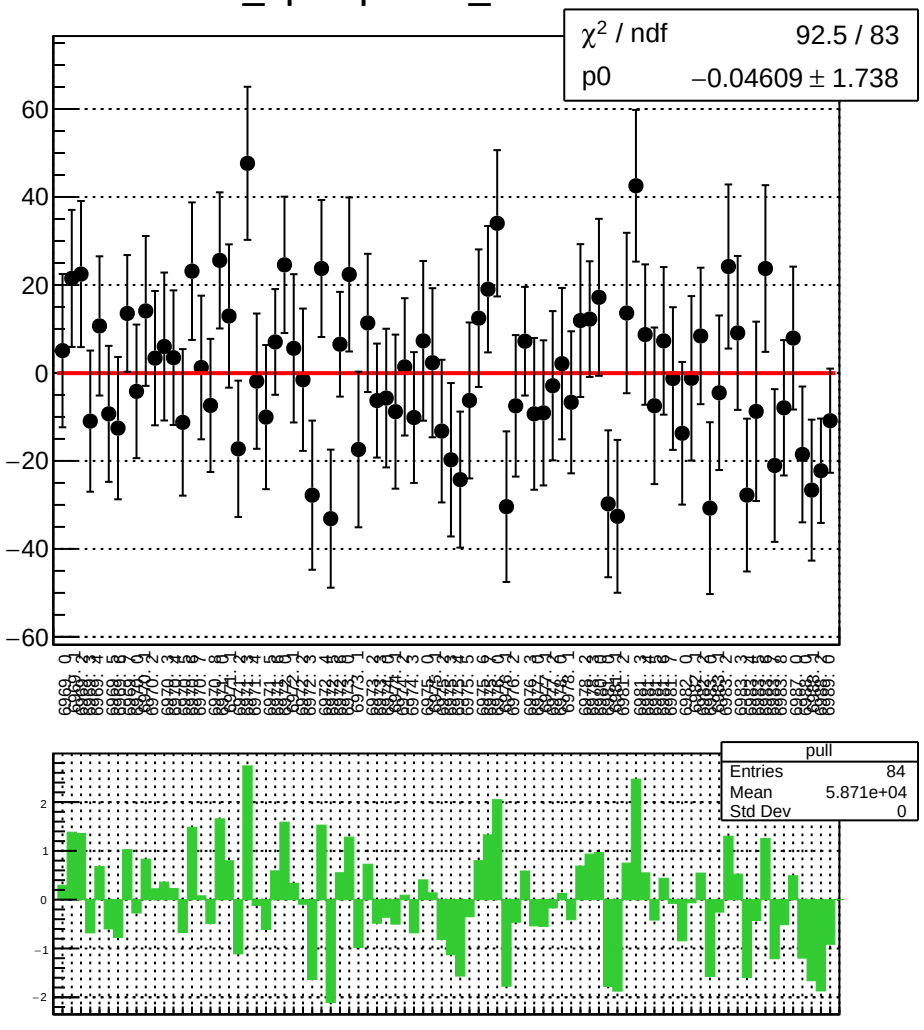

pull1D
Entries 84
Mean 0.003569
Std Dev 0.9782
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

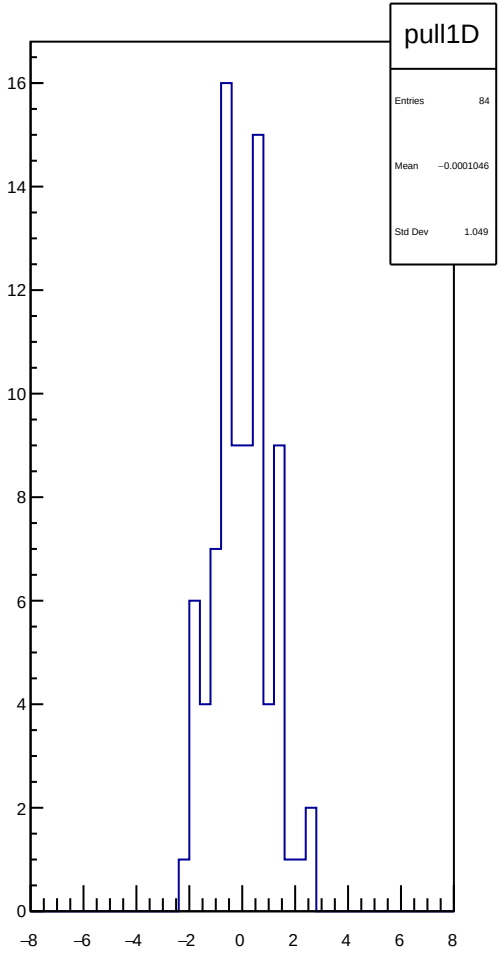

diff_bpm1p02bX_rms vs run
χ² / ndf 2.048e+04 / 83
p0 1137 ± 0.884
1500
1400
1300
1200
1100
1000
900

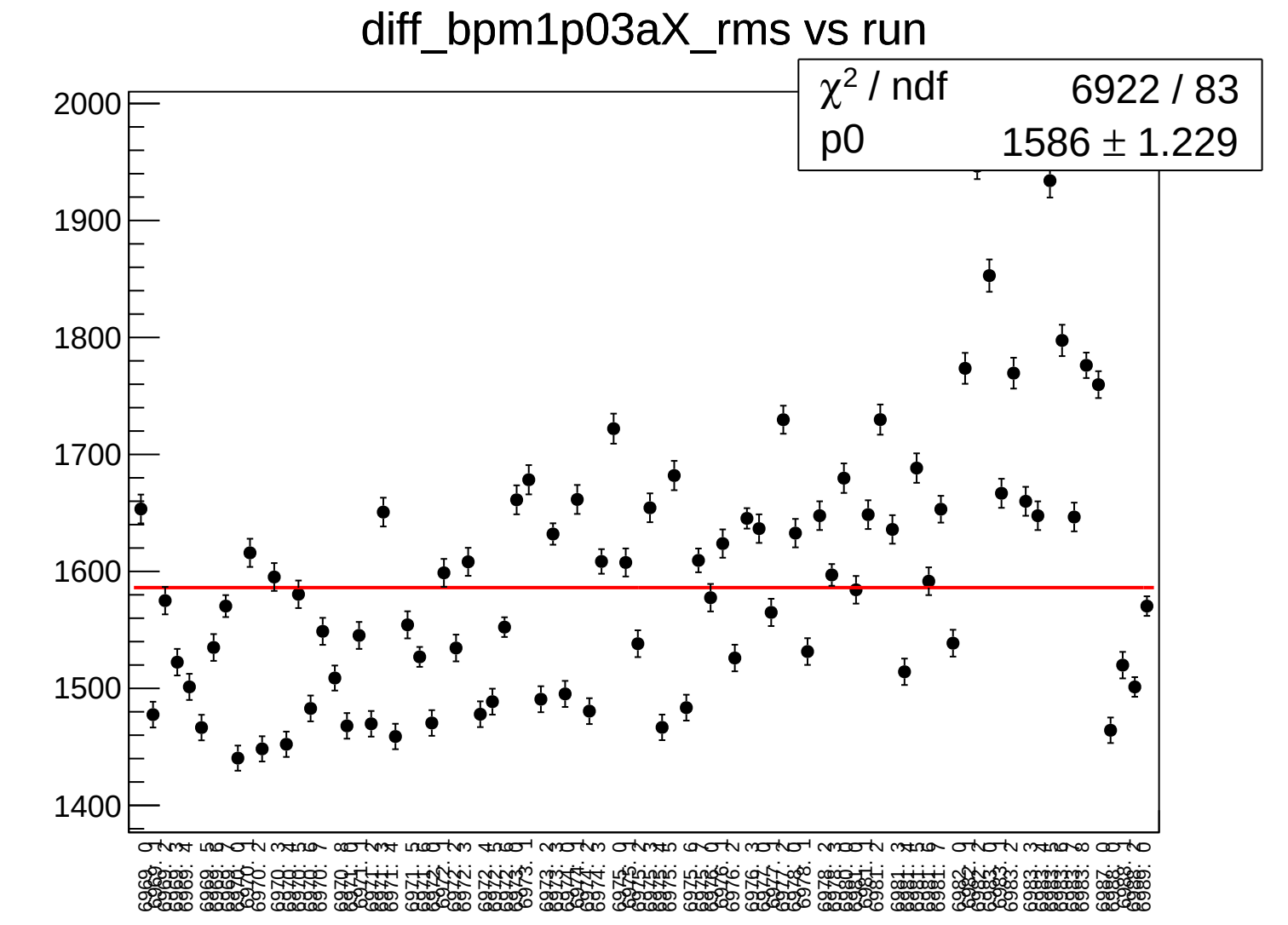

diff_bpm1p02bY_mean vs run
χ² / ndf 95.26 / 83
p0 1.398 ± 3.666
pull
Entries 84
Mean −1813
Std Dev 0

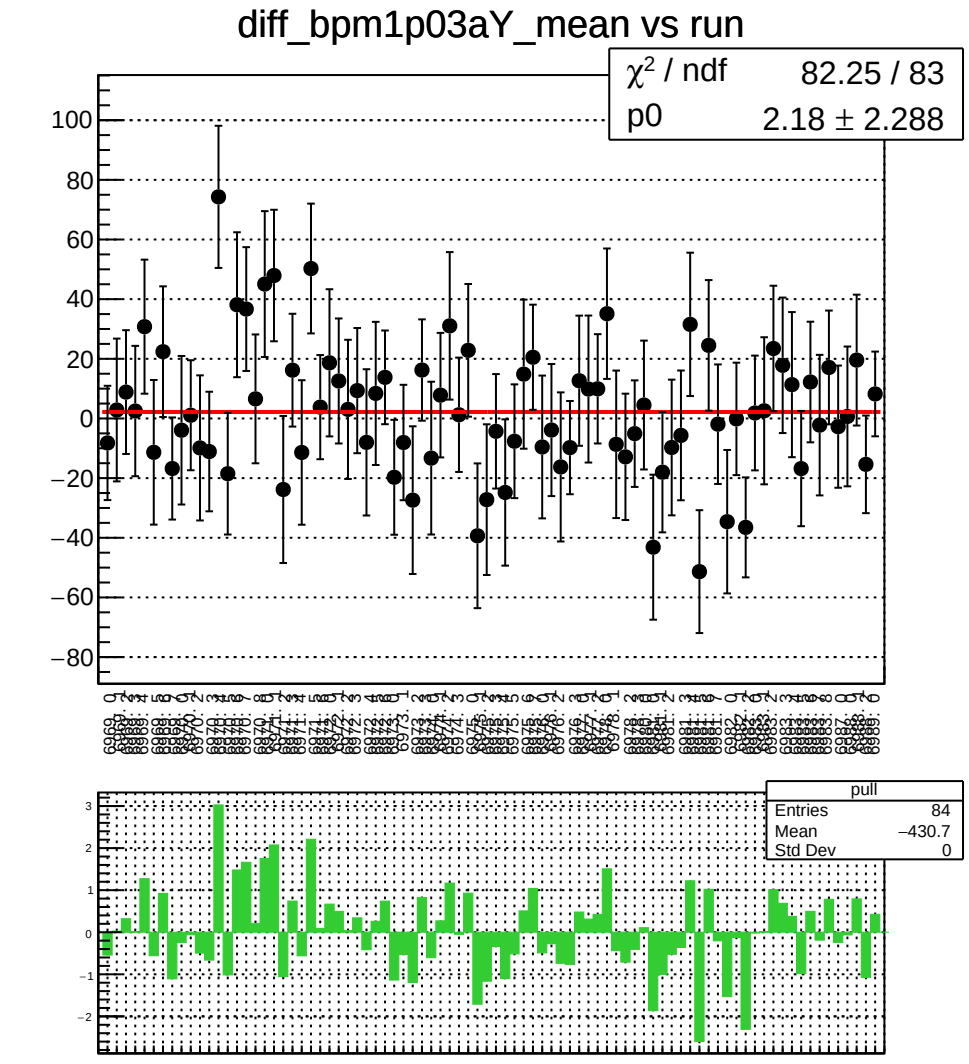

pull1D
Entries 84
Mean 0.00336
Std Dev 1.065

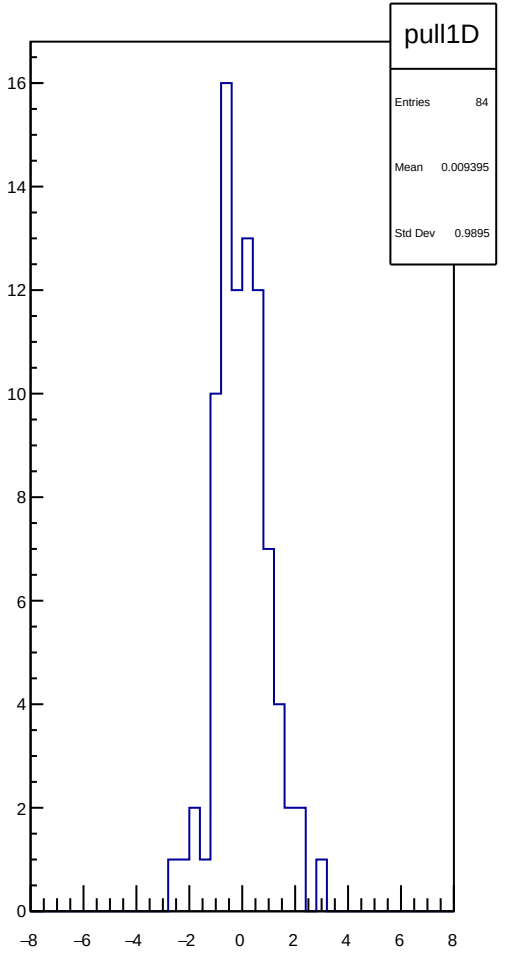

diff_bpm1p02bY_rms vs run
χ² / ndf 1.095e+04 / 83
p0 3342 ± 2.592
4000
3800
3600
3400
3200
3000
2800

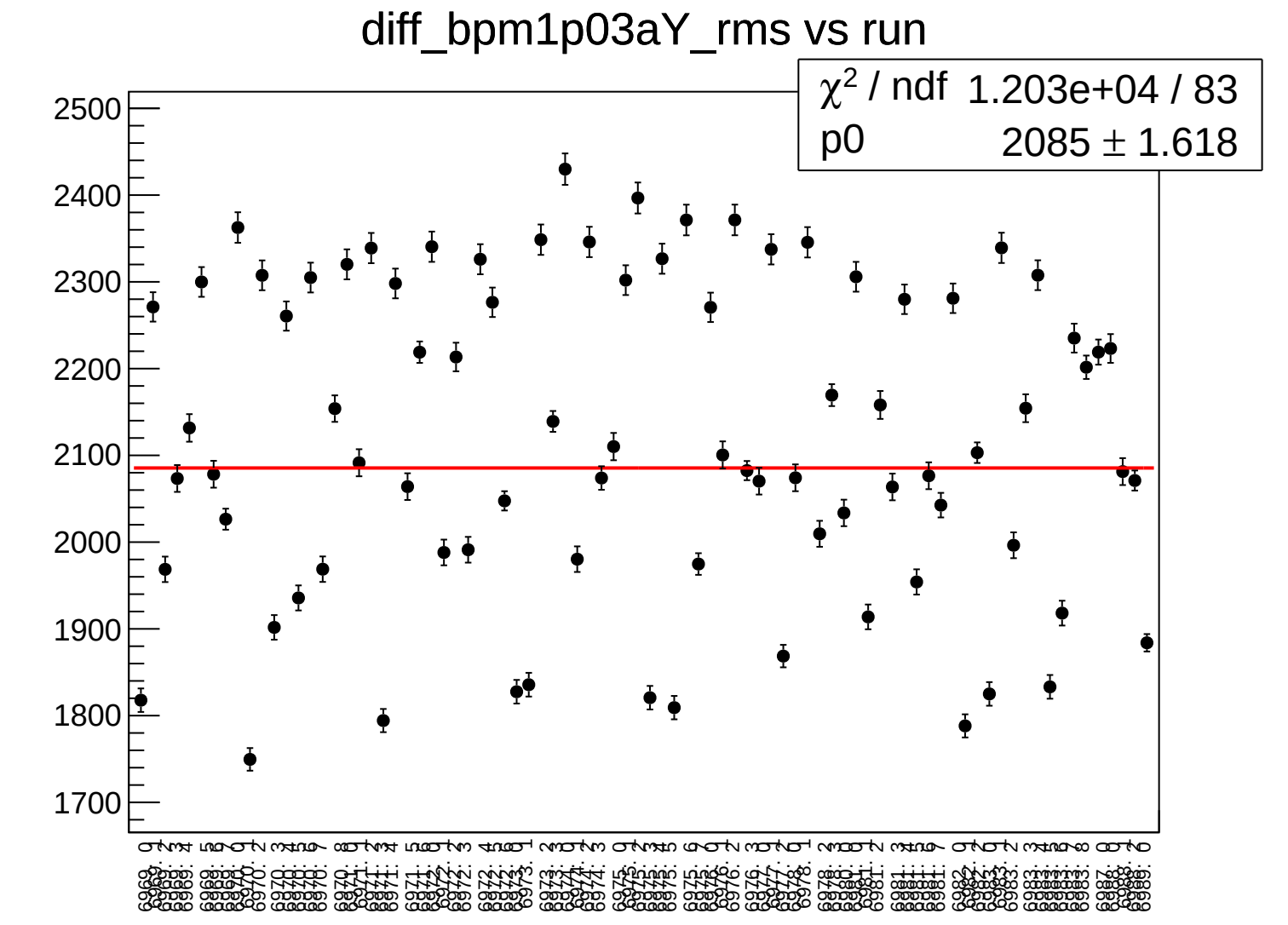

diff_bpm1p03aX_mean vs run
χ² / ndf 92.5 / 83
p0 −0.04609 ± 1.738
pull
Entries 84
Mean 5.871e+04
Std Dev 0

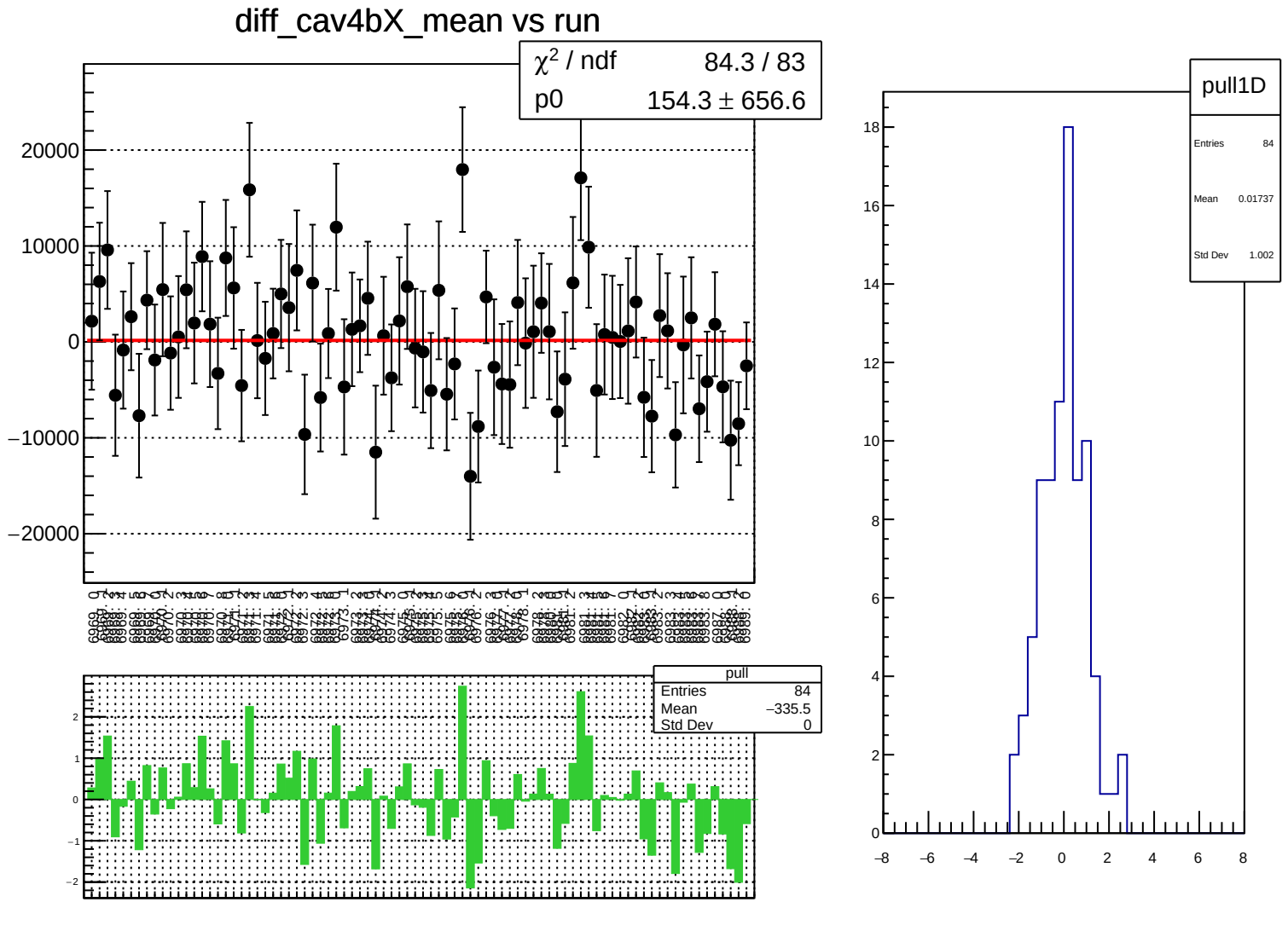

pull1D
Entries 84
Mean −0.0001046
Std Dev 1.049

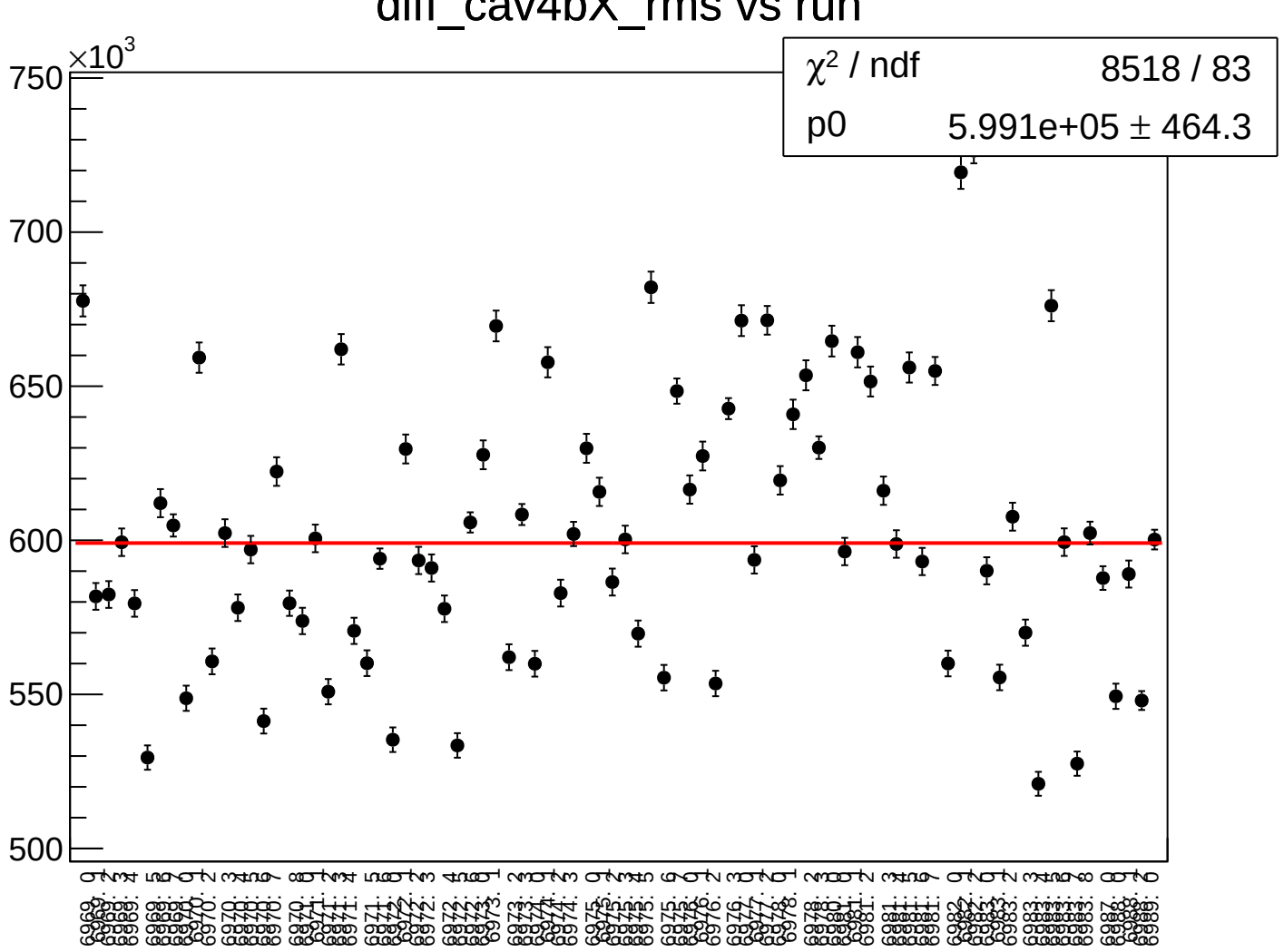

diff_bpm1p03aX_rms vs run
χ^2 / ndf 6922 / 83
p0 1586 ± 1.229
2000
1900
1800
1700
1600
1500
1400

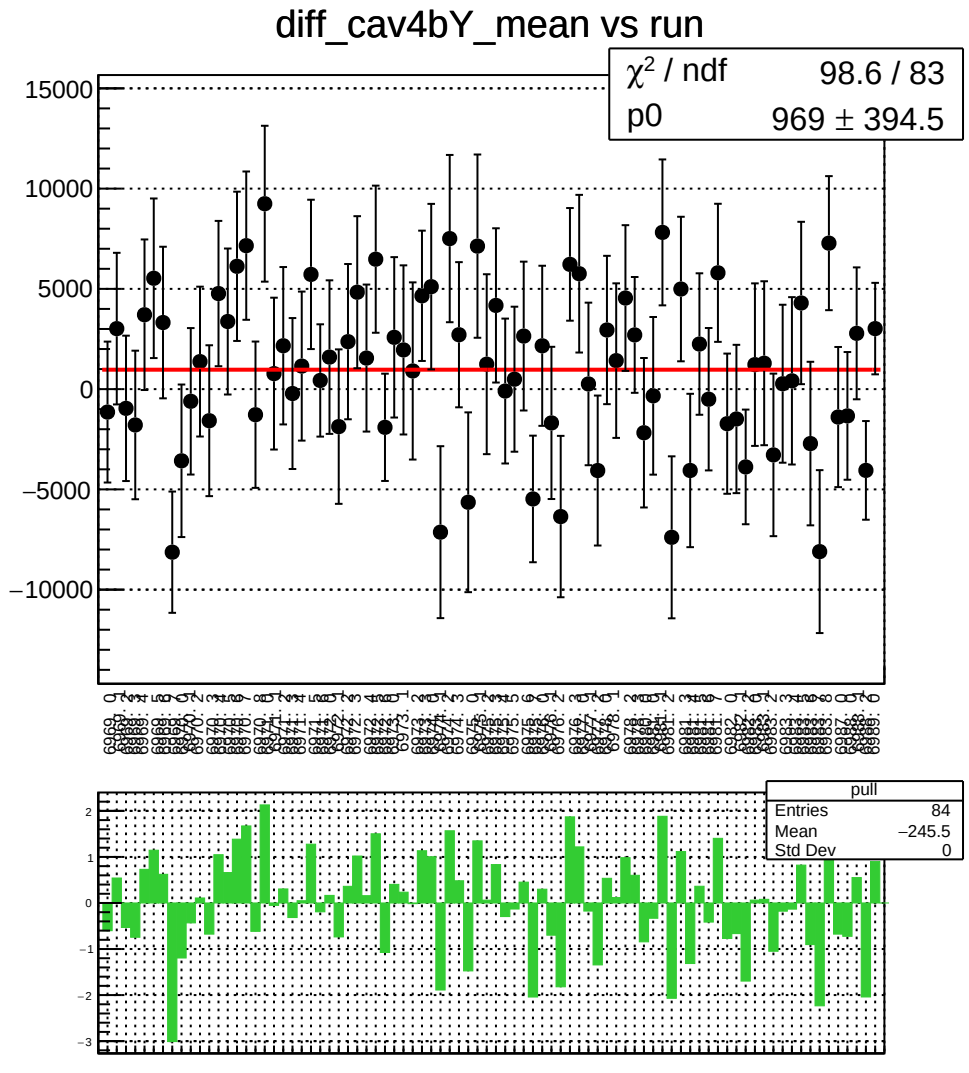

diff_bpm1p03aY_mean vs run
χ² / ndf 82.25 / 83
p0 2.18 ± 2.288
pull
Entries 84
Mean −430.7
Std Dev 0

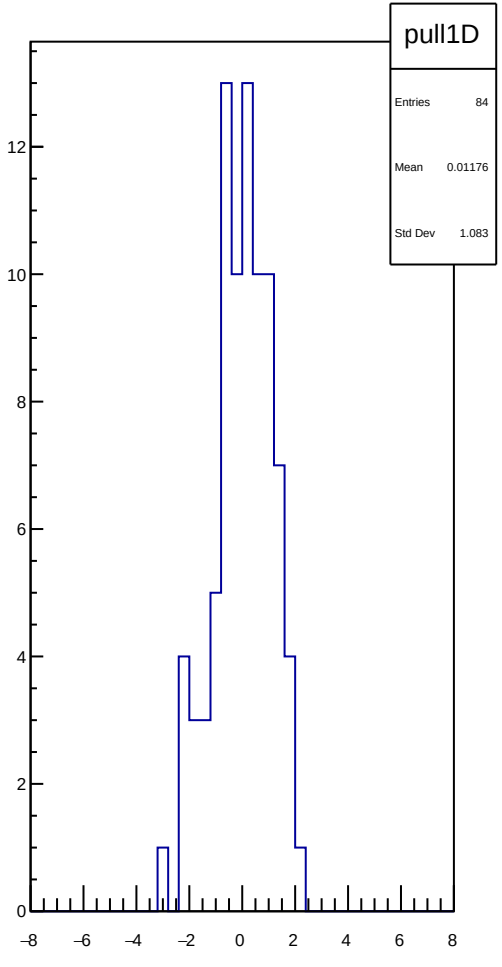

pull1D
Entries 84
Mean 0.009395
Std Dev 0.9895

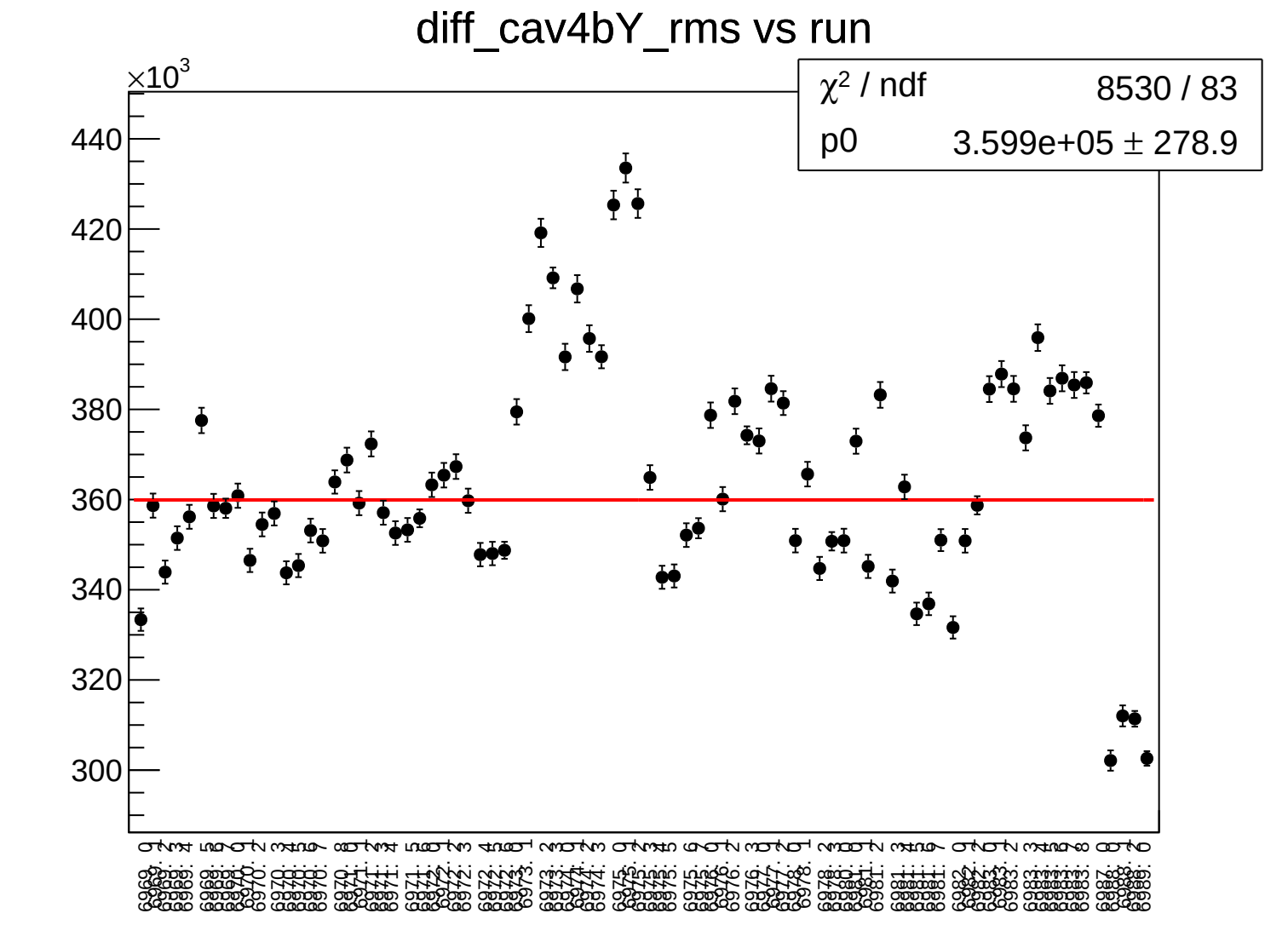

diff_bpm1p03aY_rms vs run
χ² / ndf 1.203e+04 / 83
p0 2085 ± 1.618
2500
2400
2300
2200
2100
2000
1900
1800
1700

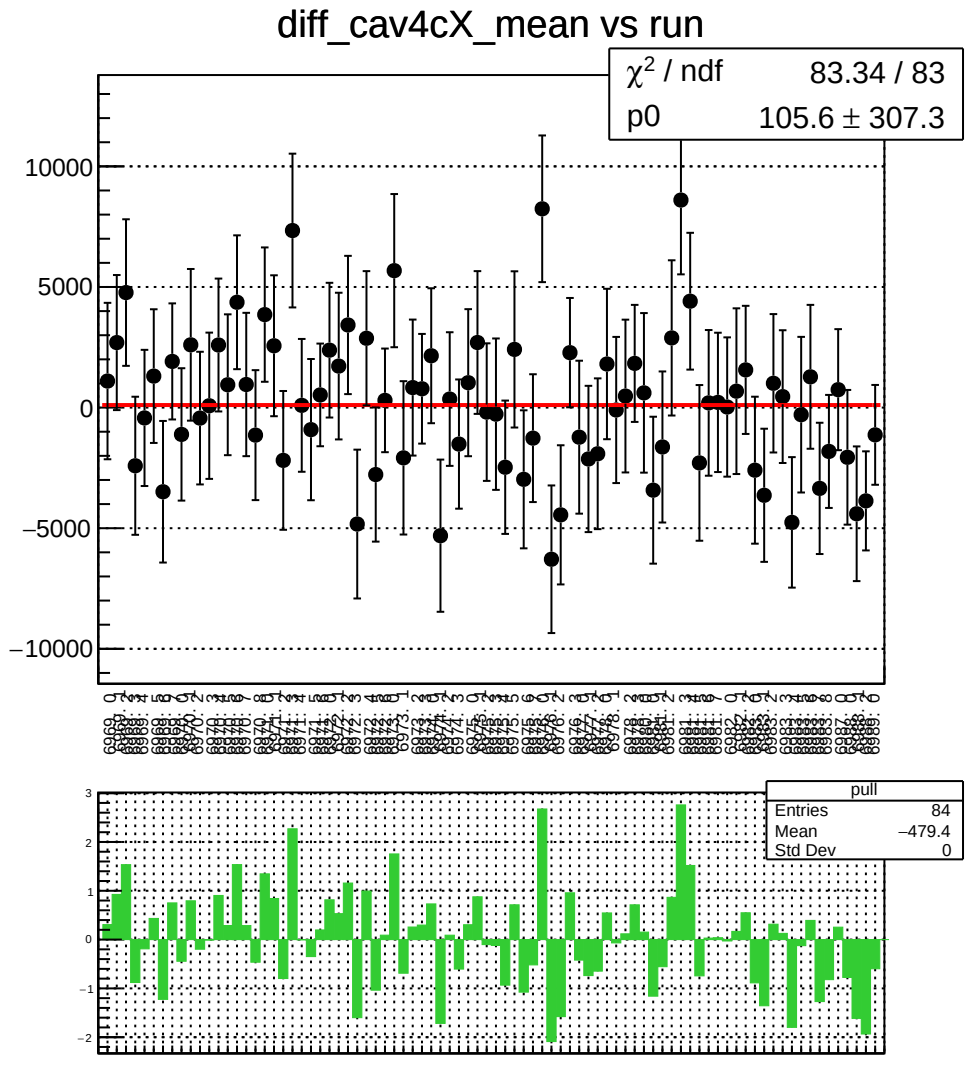

diff_cav4bX_mean vs run
χ^2 / ndf 84.3 / 83
p0 154.3 ± 656.6
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −335.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.01737
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

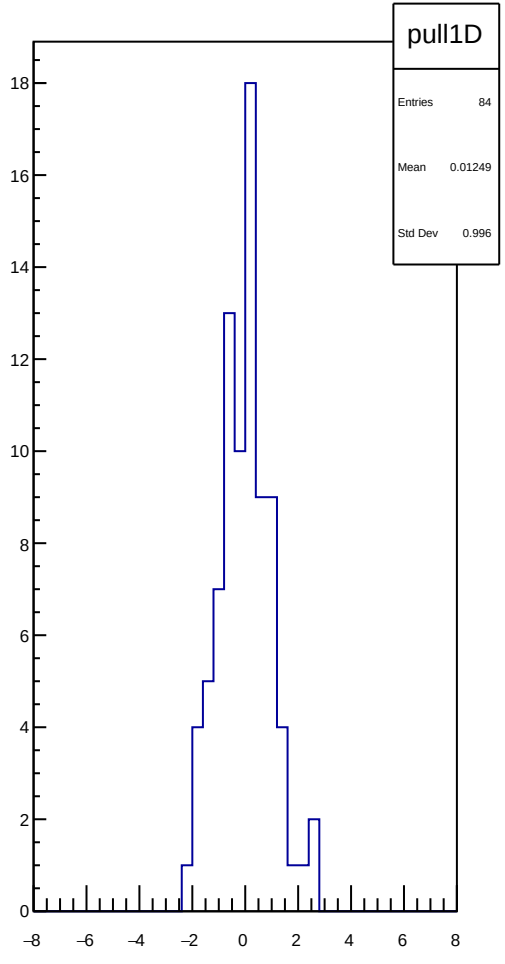

diff_cav4bX_rms vs run
×10^3
750
700
650
600
550
500
χ² / ndf 8518 / 83
p0 5.991e+05 ± 464.3

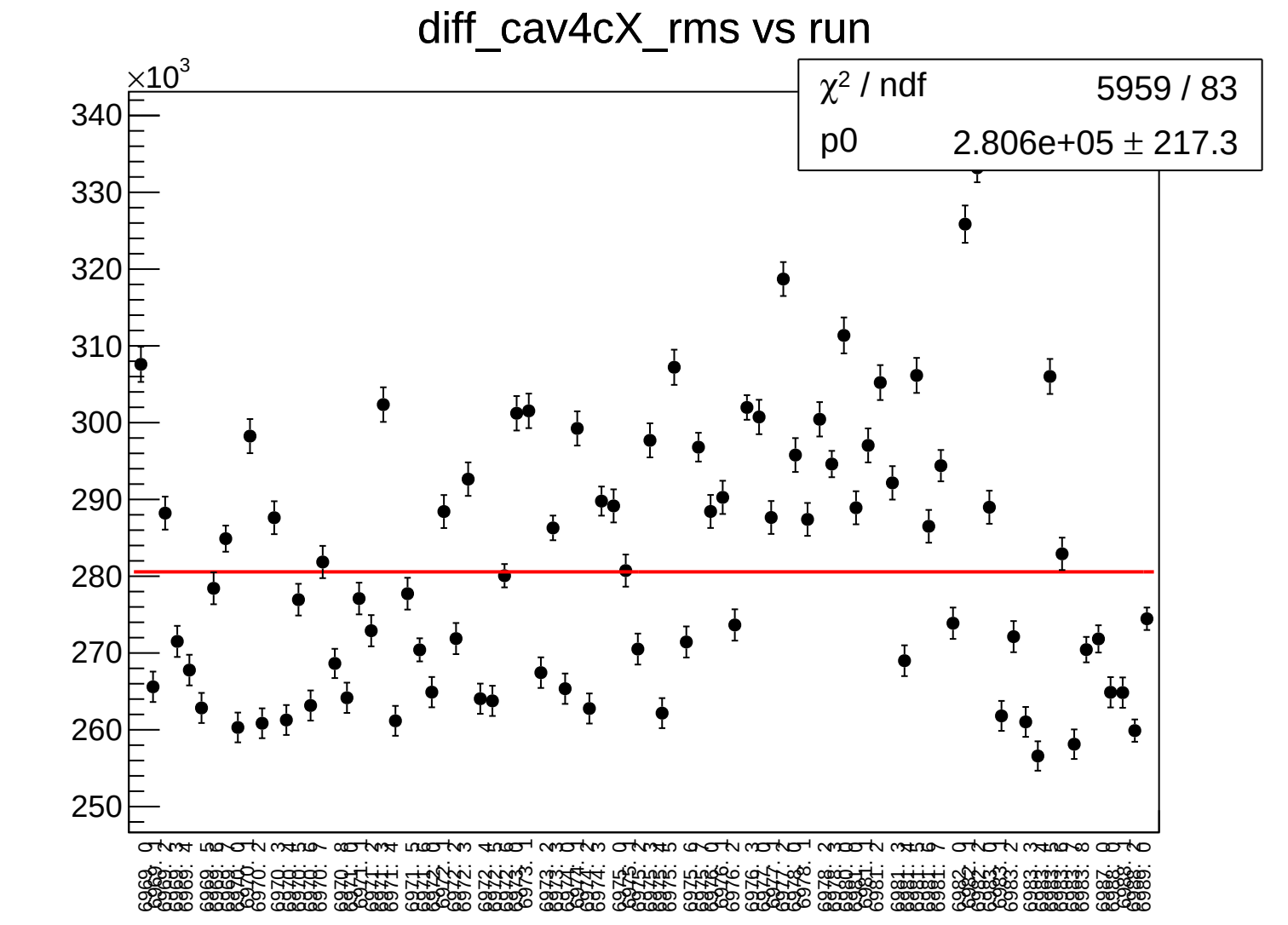

diff_cav4bY_mean vs run
χ² / ndf 98.6 / 83
p0 969 ± 394.5
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −245.5
Std Dev 0
2
1
0
−1
−2
−3

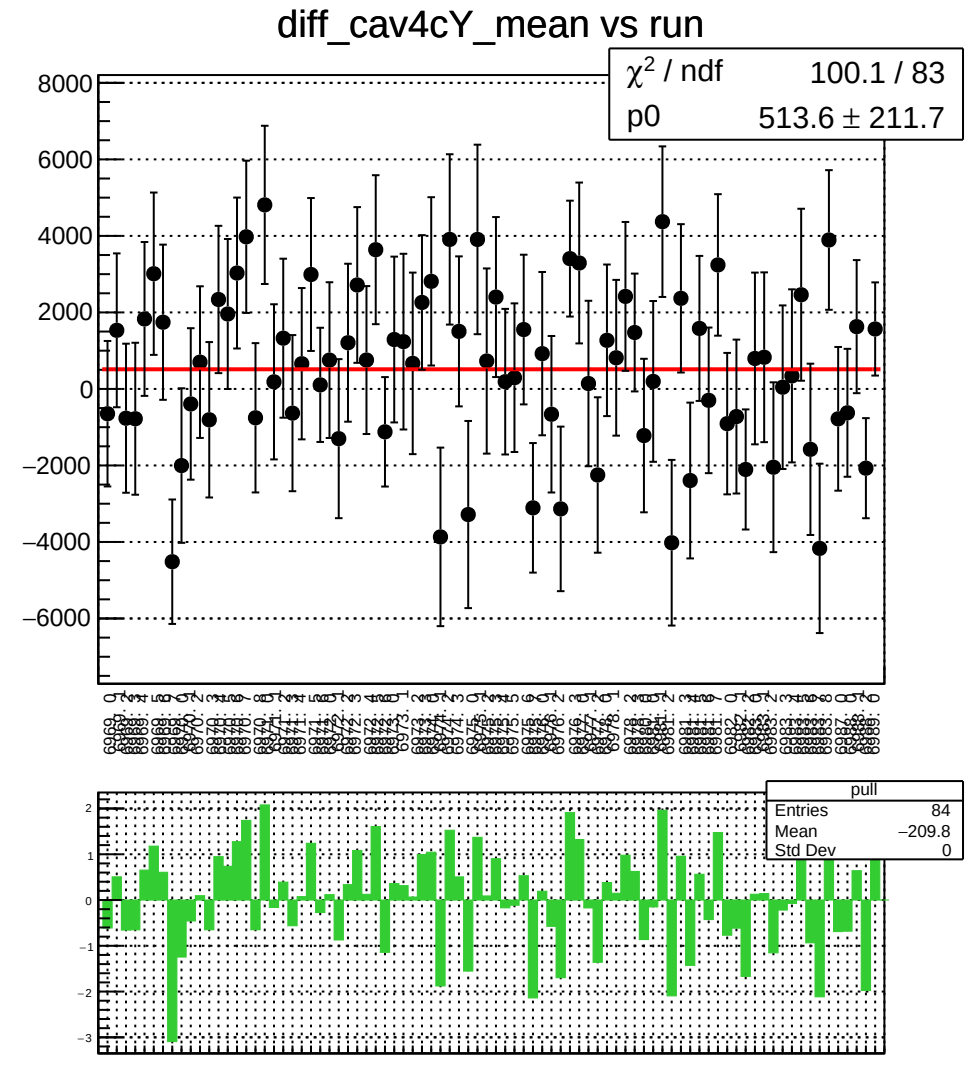

pull1D
Entries 84
Mean 0.01176
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

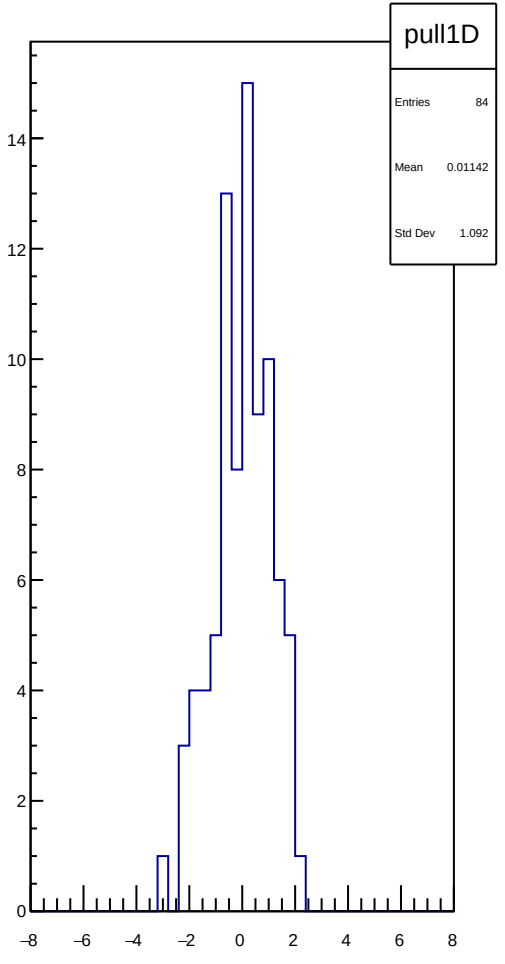

diff_cav4bY_rms vs run
×10^3
χ² / ndf 8530 / 83
p0 3.599e+05 ± 278.9
440
420
400
380
360
340
320
300

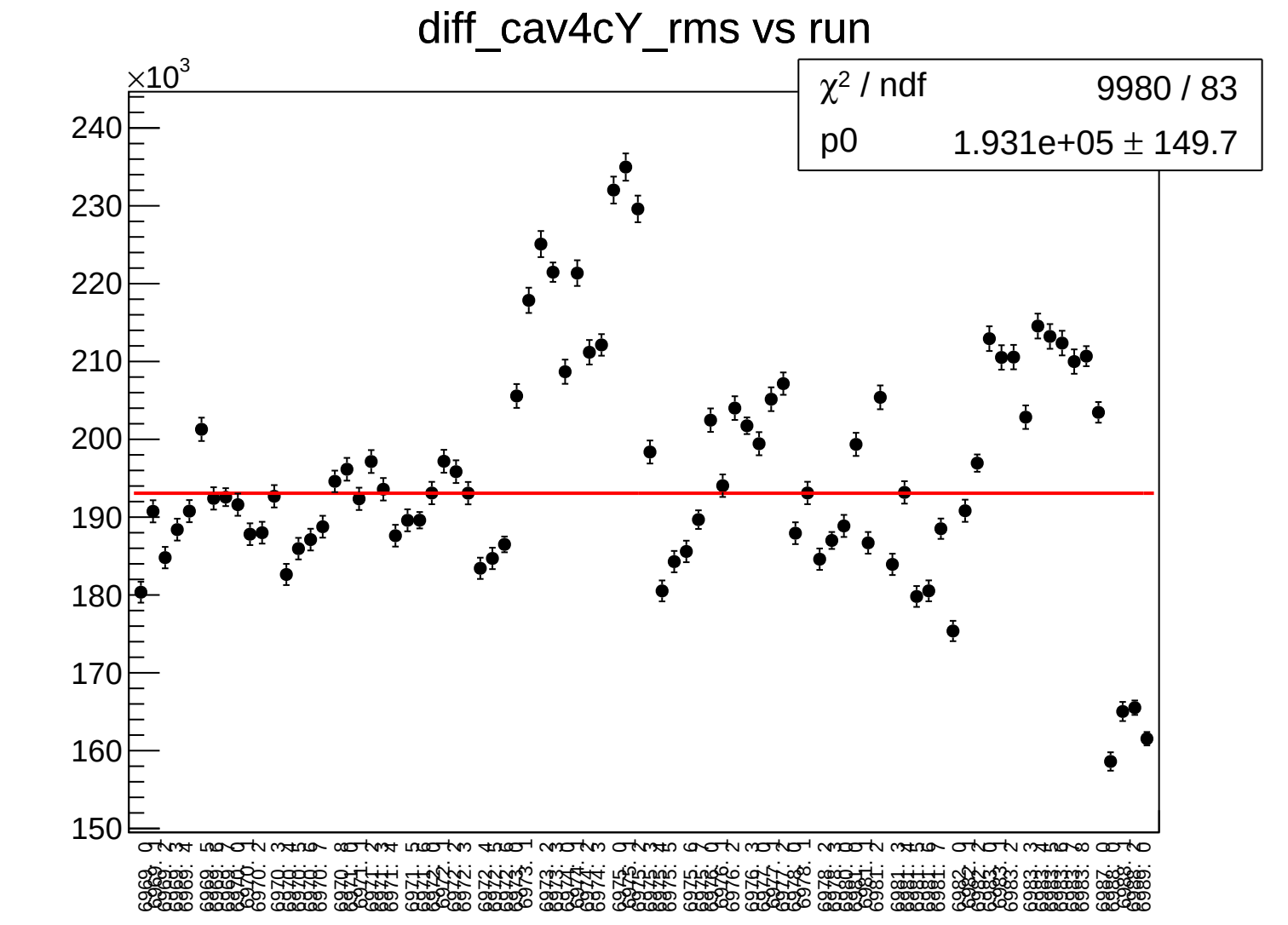

diff_cav4cX_mean vs run
χ² / ndf 83.34 / 83
p0 105.6 ± 307.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −479.4
Std Dev 0
3
2
1
0
−1
−2

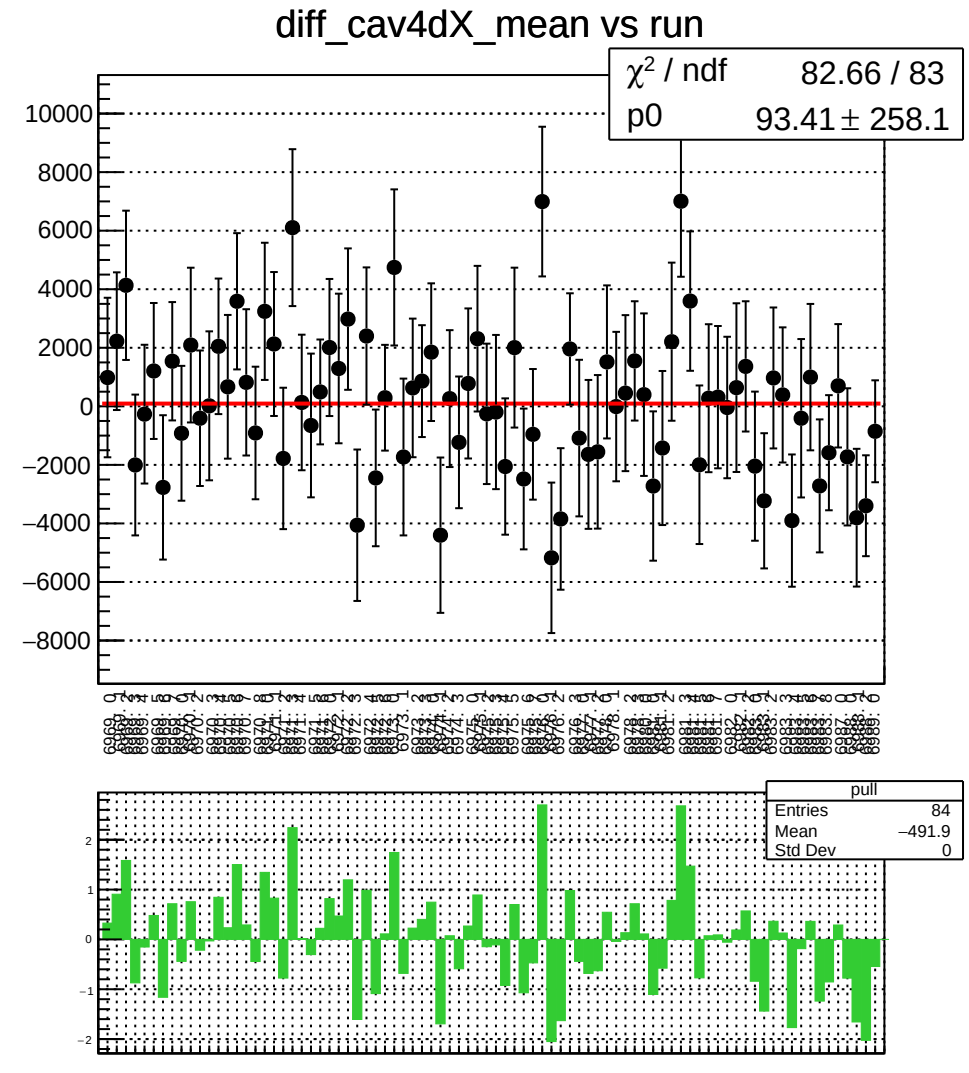

pull1D
Entries 84
Mean 0.01249
Std Dev 0.996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

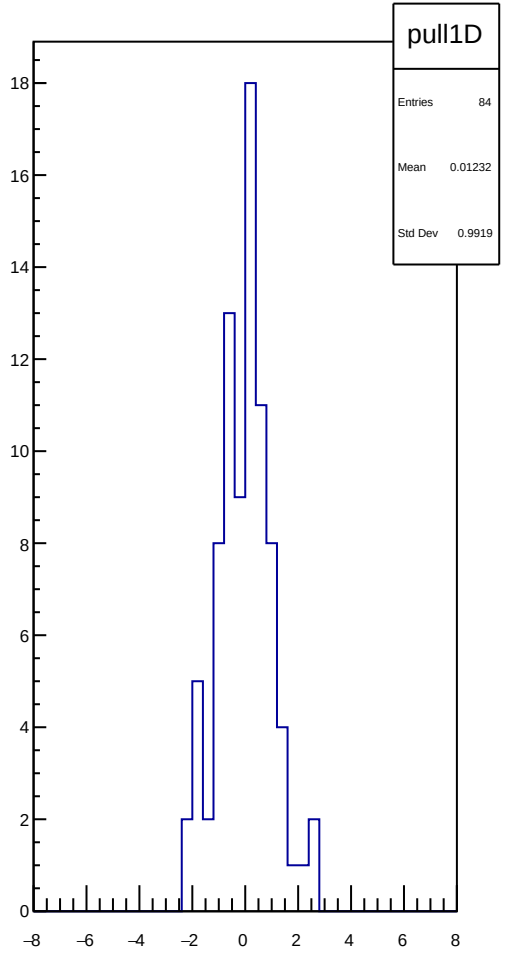

diff_cav4cX_rms vs run
×10^3
340
330
320
310
300
290
280
270
260
250
χ² / ndf 5959 / 83
p0 2.806e+05 ± 217.3

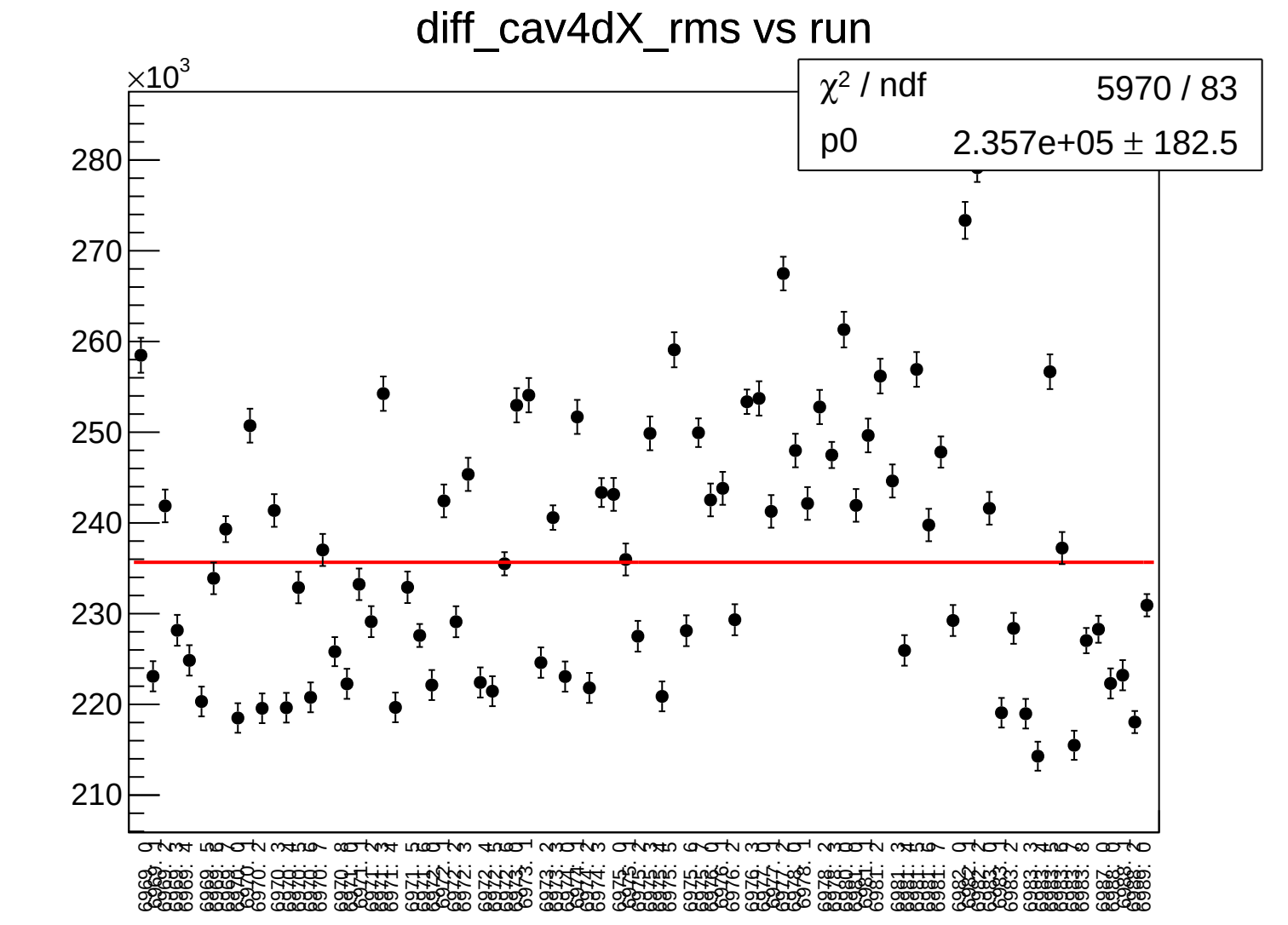

diff_cav4cY_mean vs run
χ² / ndf 100.1 / 83
p0 513.6 ± 211.7
pull
Entries 84
Mean −209.8
Std Dev 0

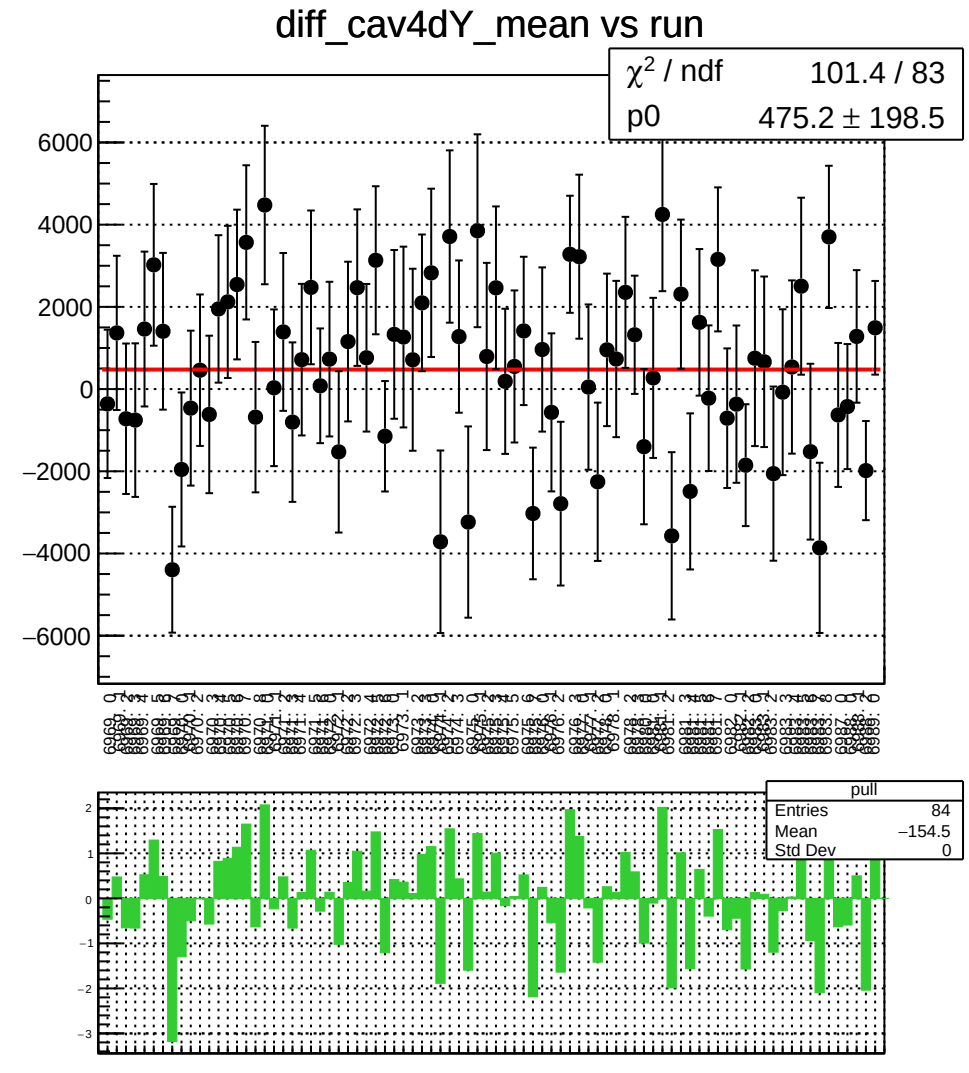

pull1D
Entries 84
Mean 0.01142
Std Dev 1.092

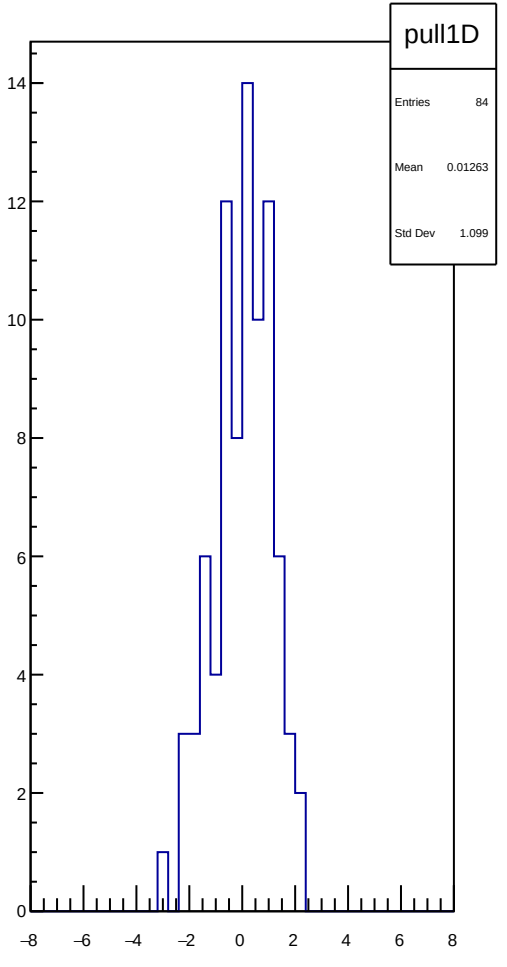

diff_cav4cY_rms vs run
×10^3
χ² / ndf 9980 / 83
p0 1.931e+05 ± 149.7
240
230
220
210
200
190
180
170
160
150

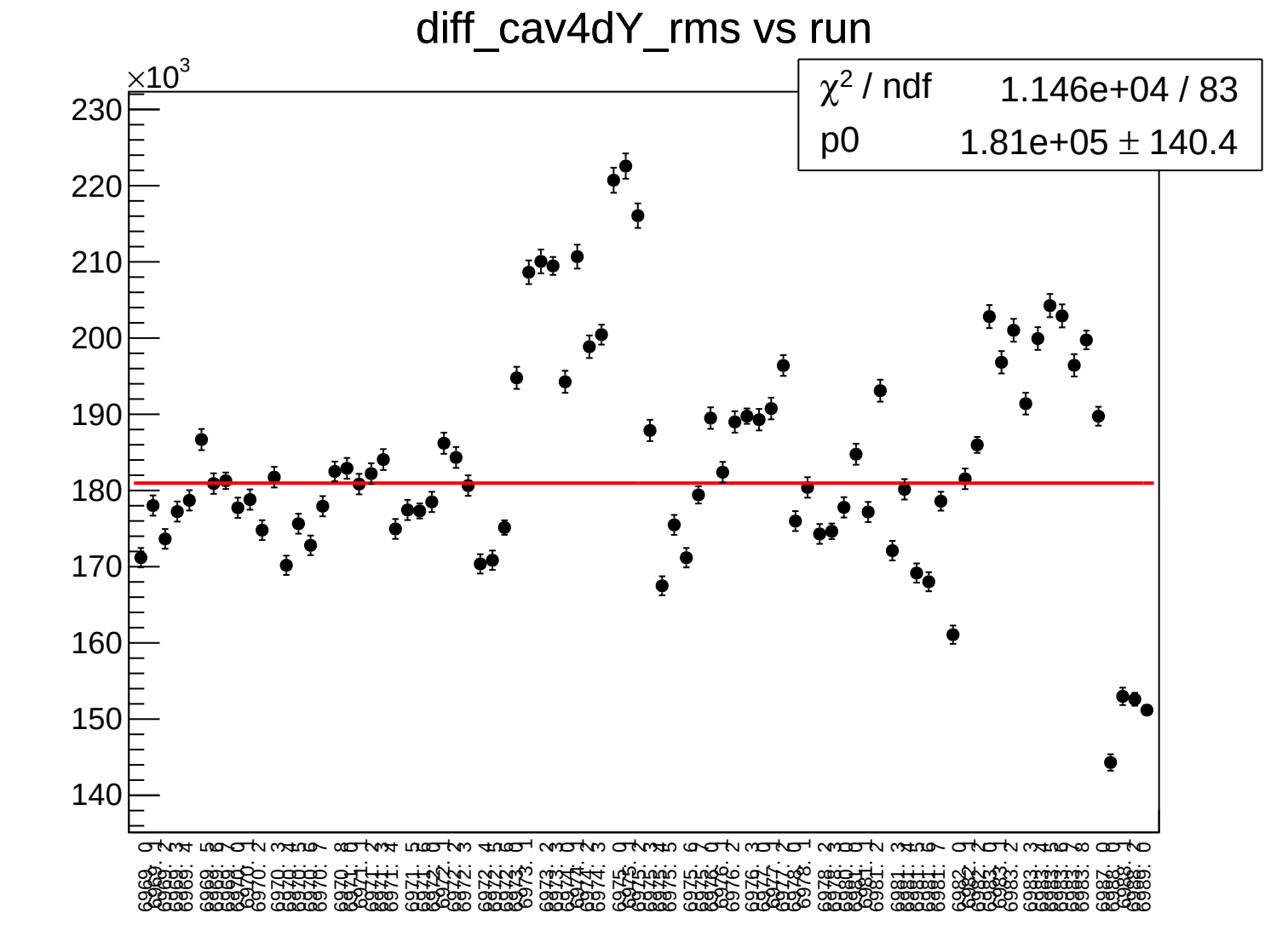

diff_cav4dX_mean vs run
χ² / ndf 82.66 / 83
p0 93.41 ± 258.1
pull
Entries 84
Mean −491.9
Std Dev 0

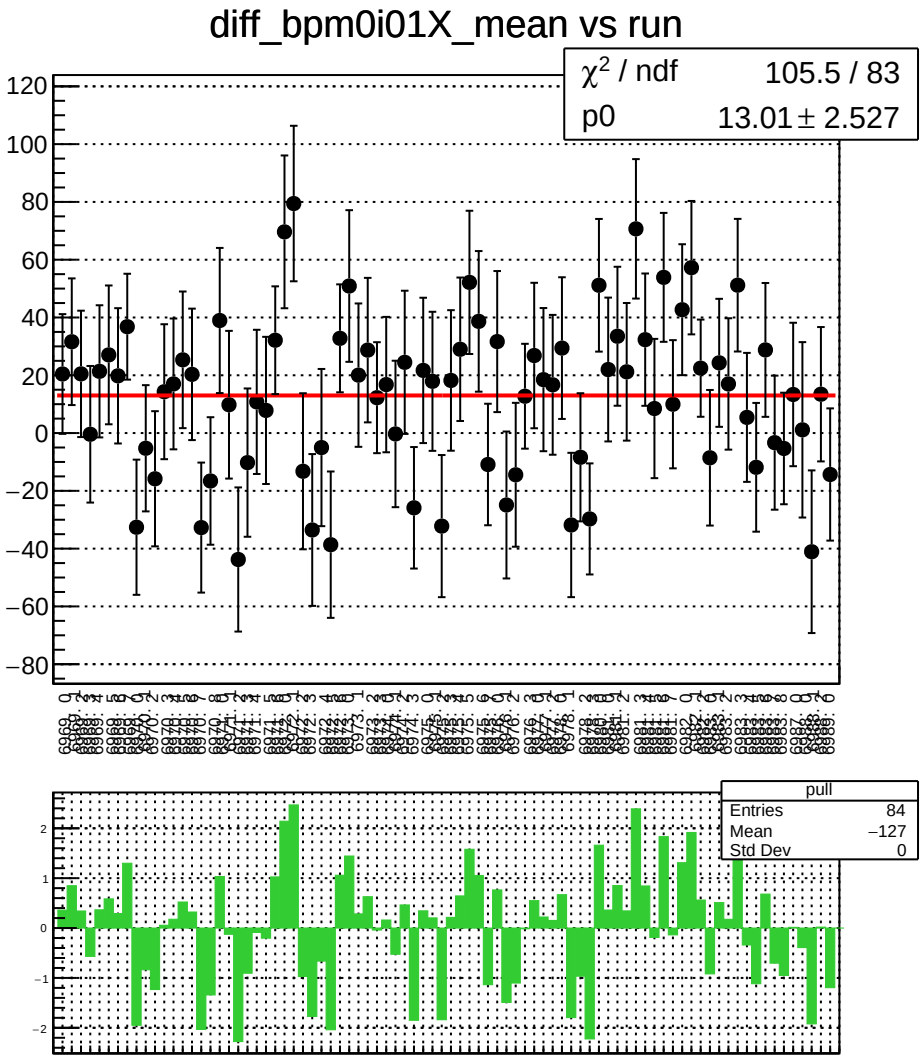

pull1D
Entries 84
Mean 0.01232
Std Dev 0.9919

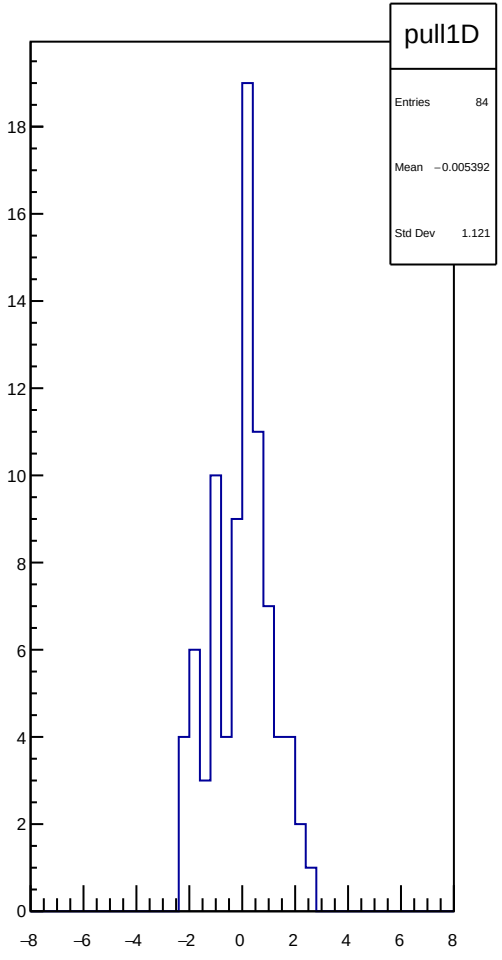

diff_cav4dX_rms vs run
×10^3
χ² / ndf 5970 / 83
p0 2.357e+05 ± 182.5
280
270
260
250
240
230
220
210

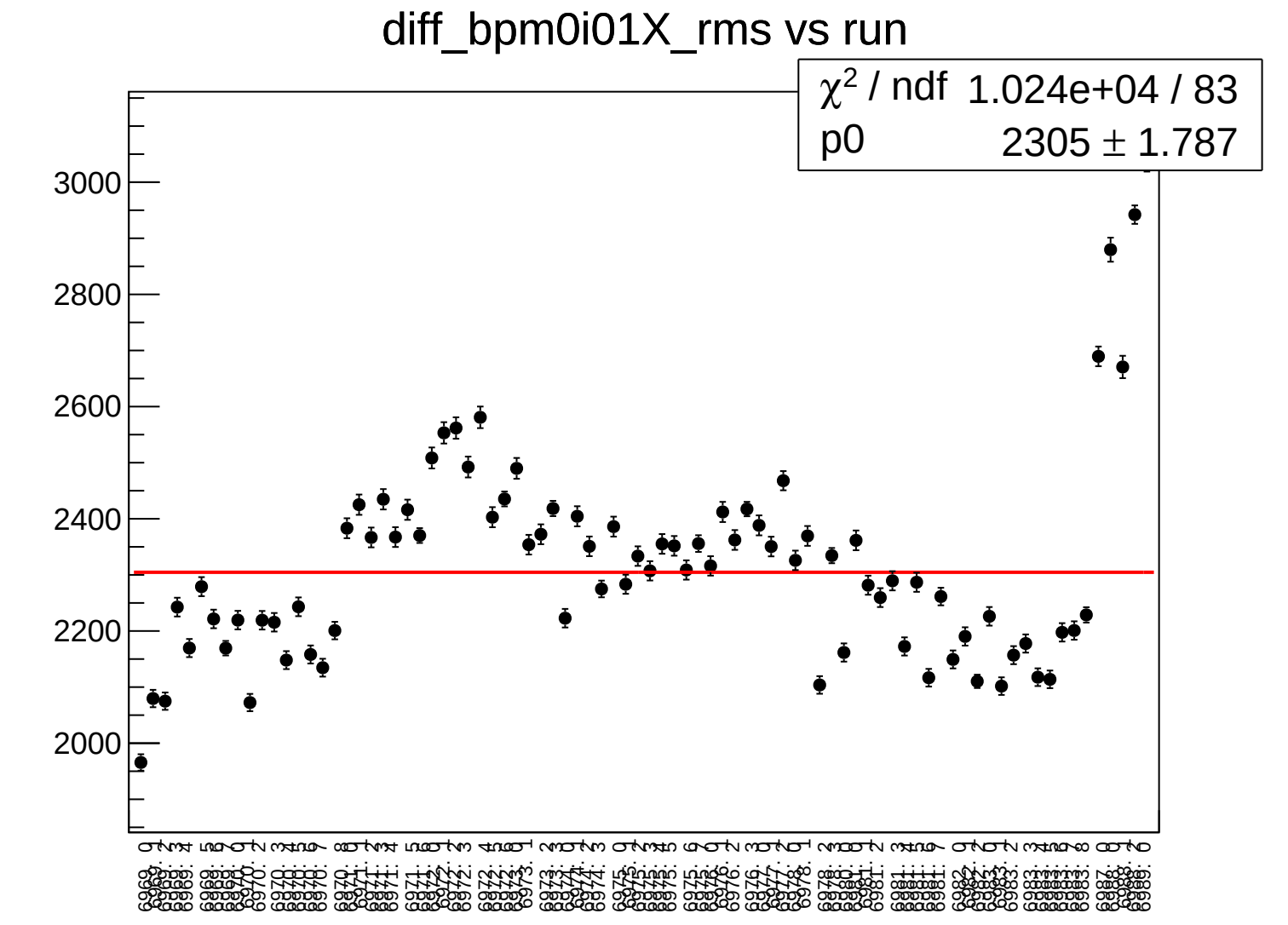

diff_cav4dY_mean vs run
χ² / ndf 101.4 / 83
p0 475.2 ± 198.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean −154.5
Std Dev 0
2
1
0
−1
−2
−3

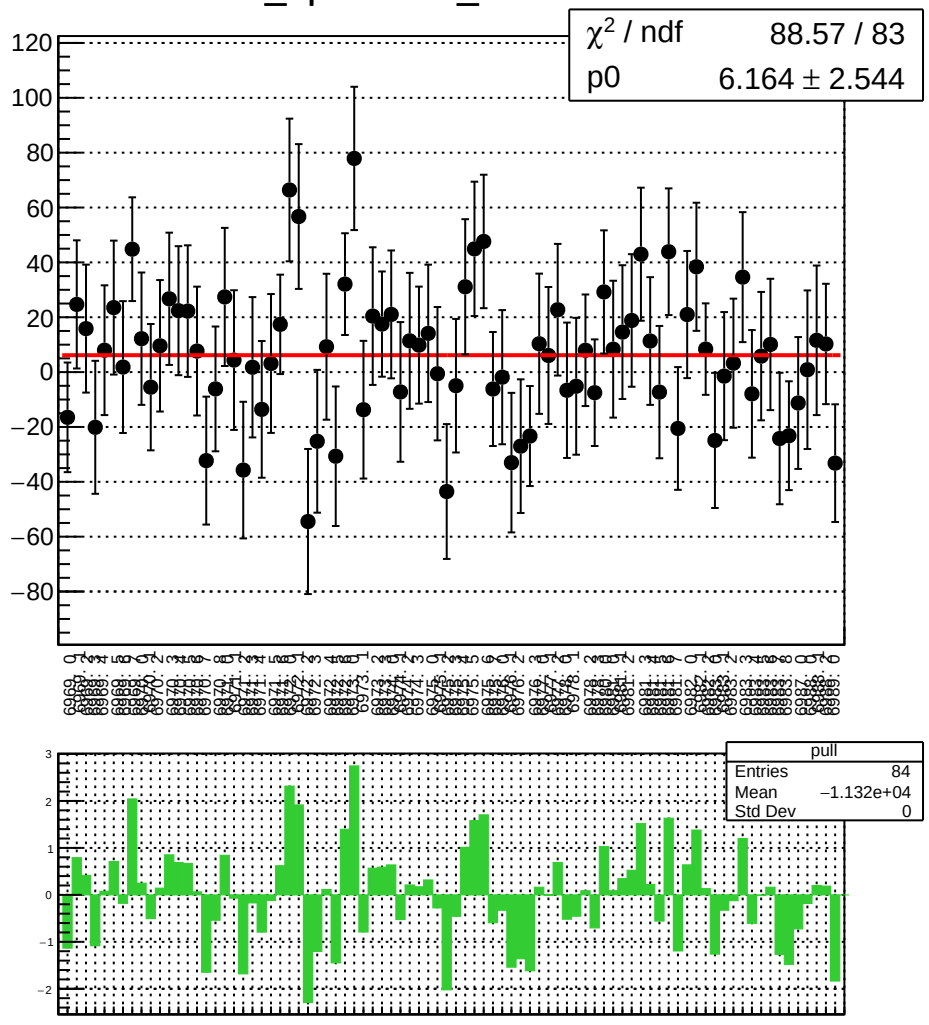

pull1D
Entries 84
Mean 0.01263
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

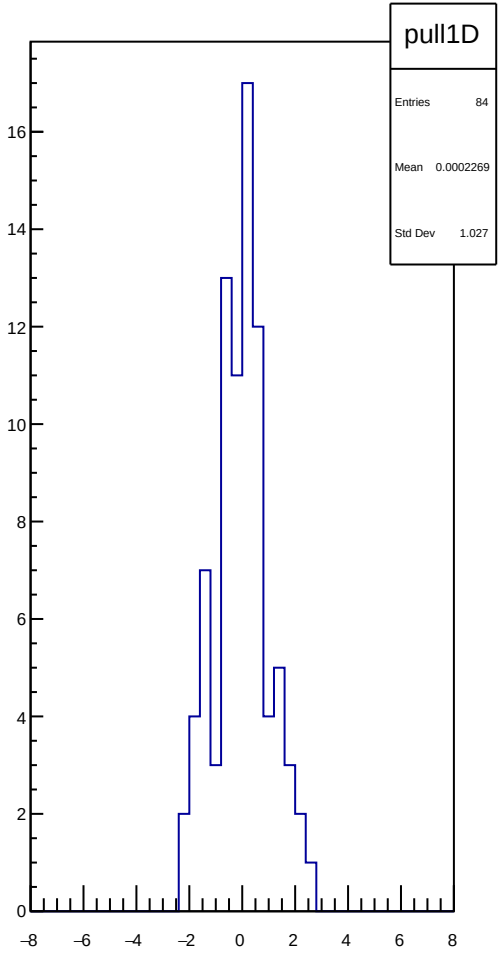

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1.146e+04 / 83
p0 1.81e+05 ± 140.4
230
220
210
200
190
180
170
160
150
140

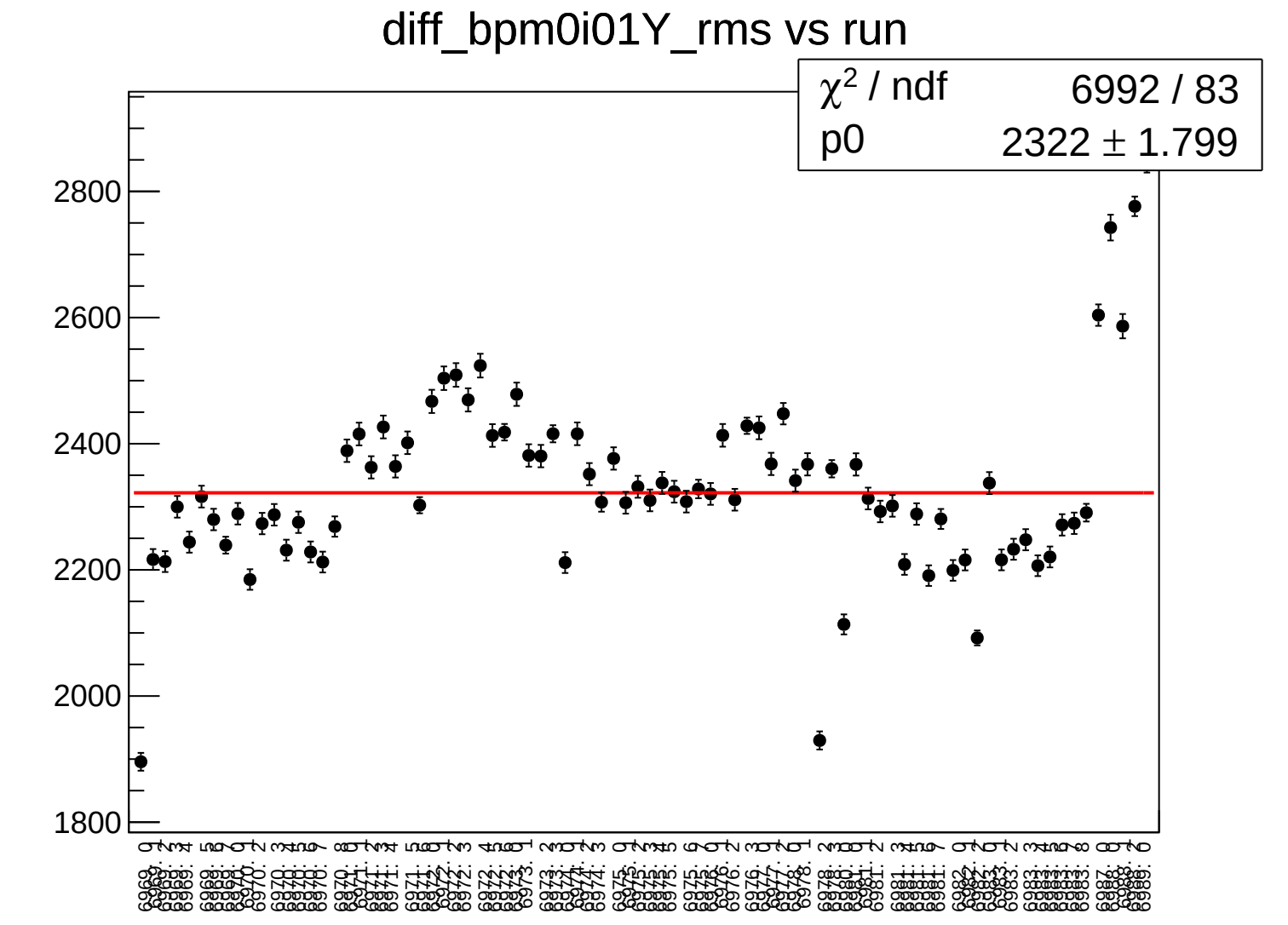

diff_bpm0i01X_mean vs run
χ² / ndf 105.5 / 83
p0 13.01 ± 2.527
pull
Entries 84
Mean −127
Std Dev 0

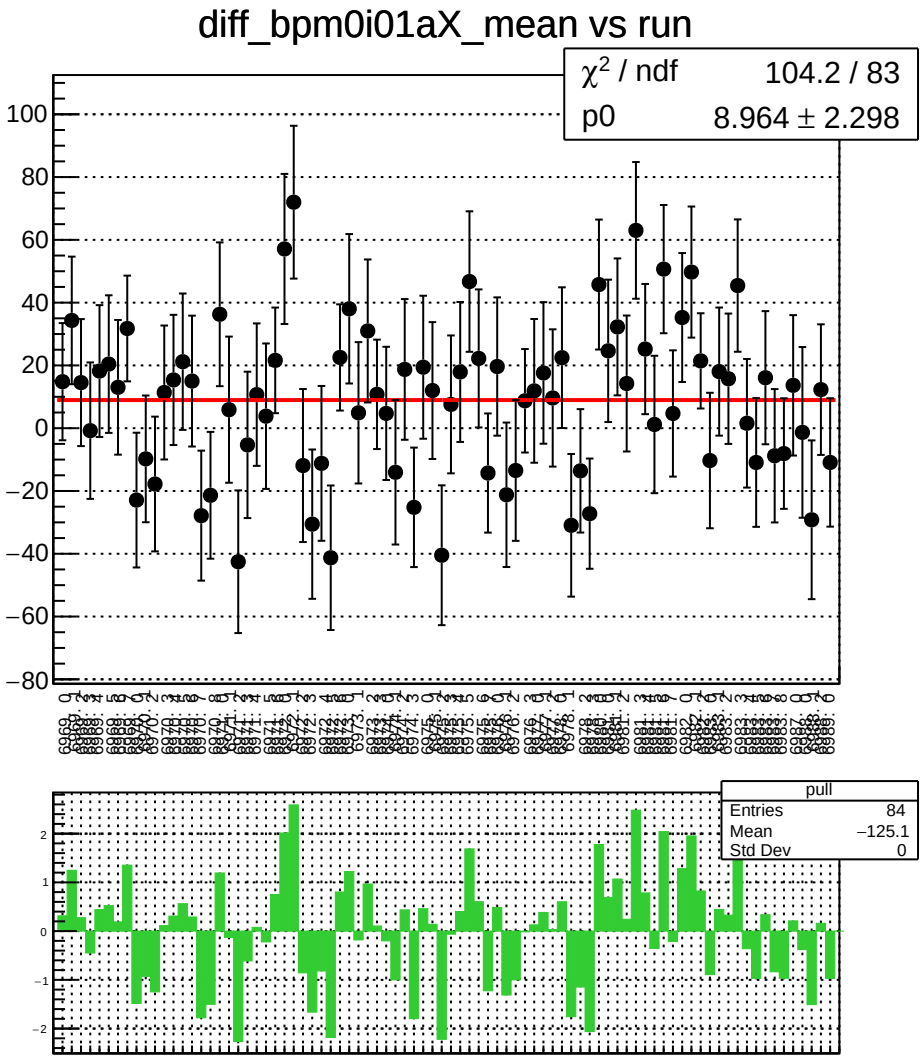

pull1D
Entries 84
Mean −0.005392
Std Dev 1.121

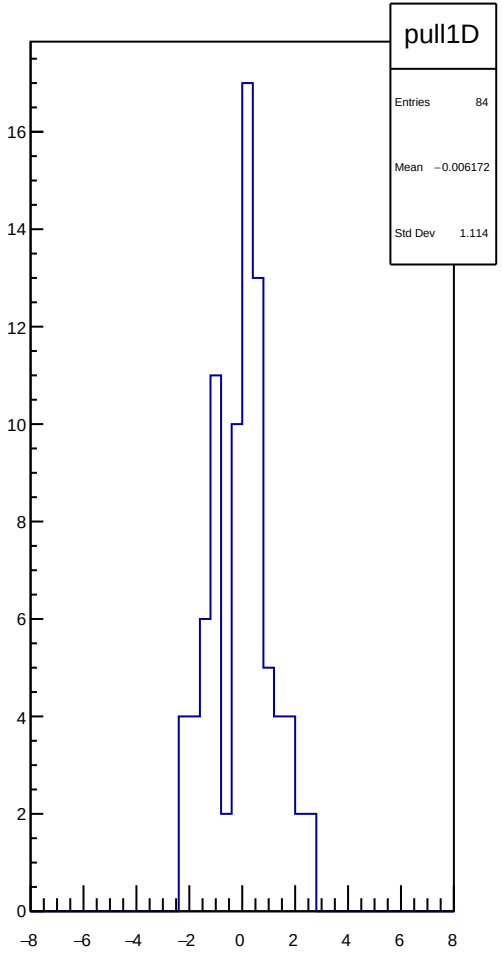

diff_bpm0i01X_rms vs run
χ² / ndf 1.024e+04 / 83
p0 2305 ± 1.787
3000
2800
2600
2400
2200
2000

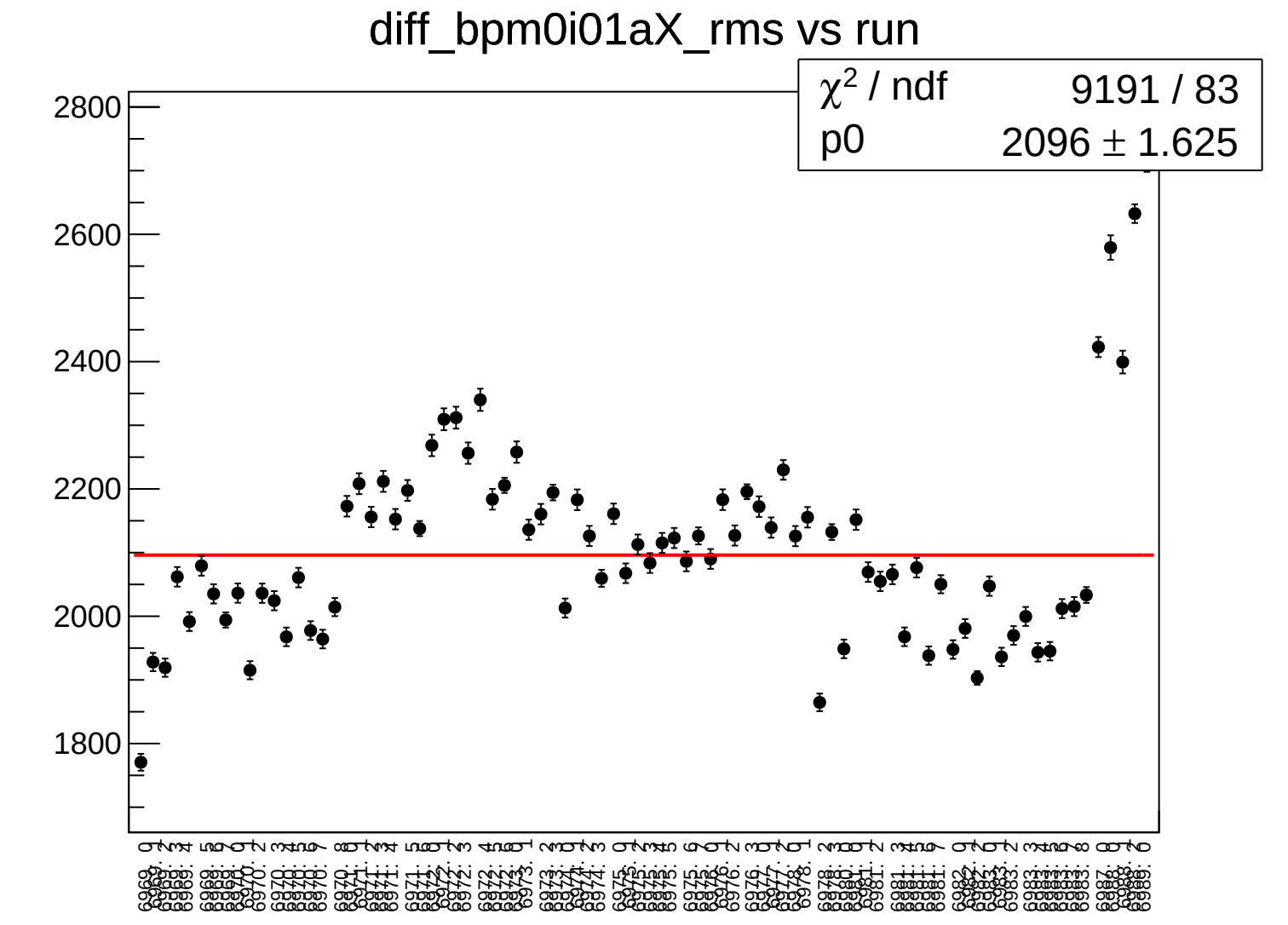

diff_bpm0i01Y_mean vs run
χ^2 / ndf 88.57 / 83
p0 6.164 ± 2.544
pull
Entries 84
Mean −1.132e+04
Std Dev 0

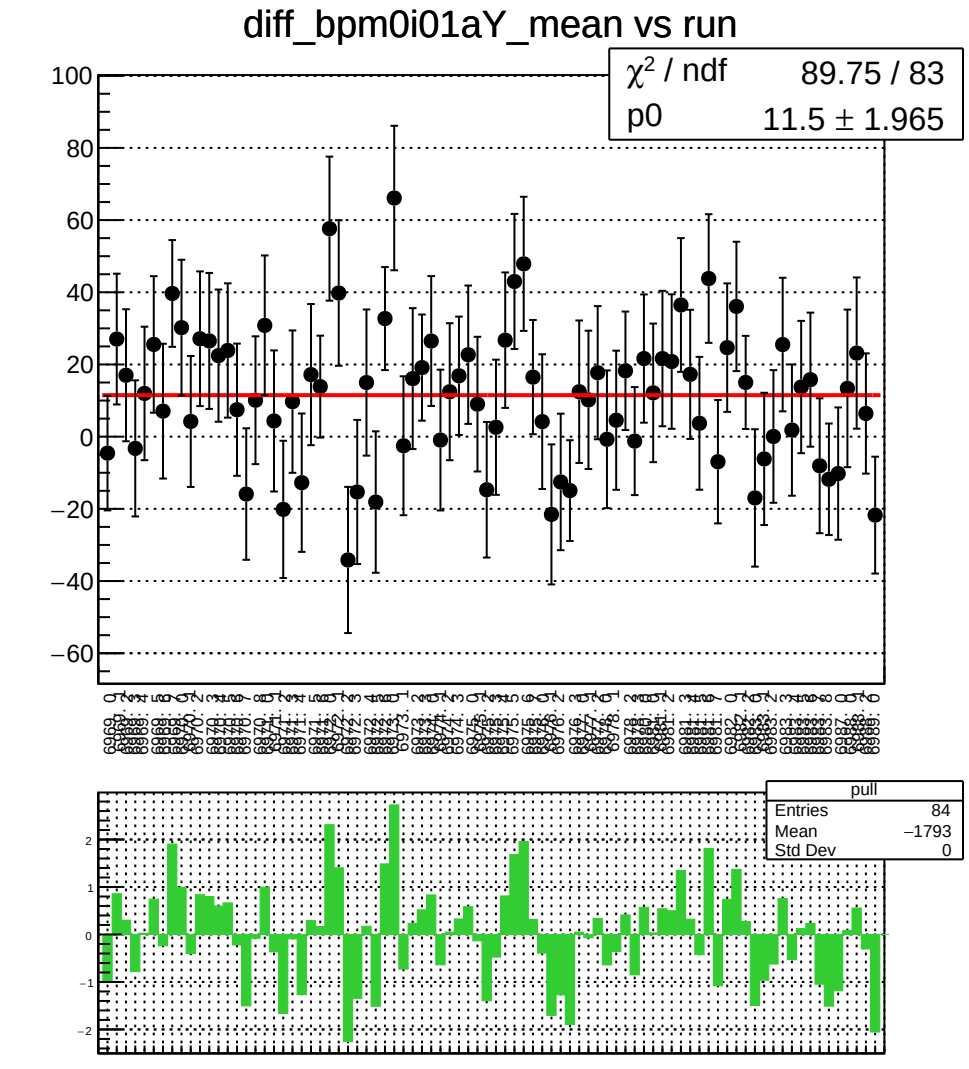

pull1D
Entries 84
Mean 0.0002269
Std Dev 1.027

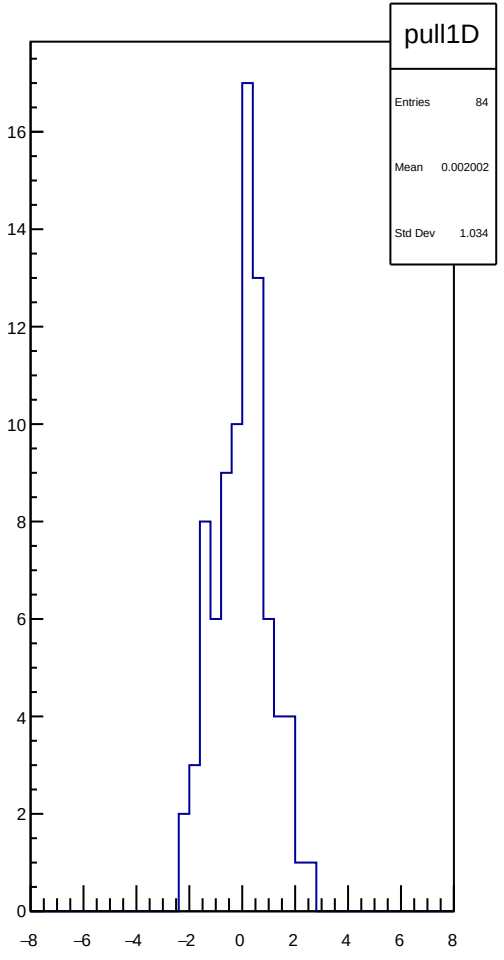

diff_bpm0i01Y_rms vs run
χ² / ndf 6992 / 83
p0 2322 ± 1.799
2800
2600
2400
2200
2000
1800

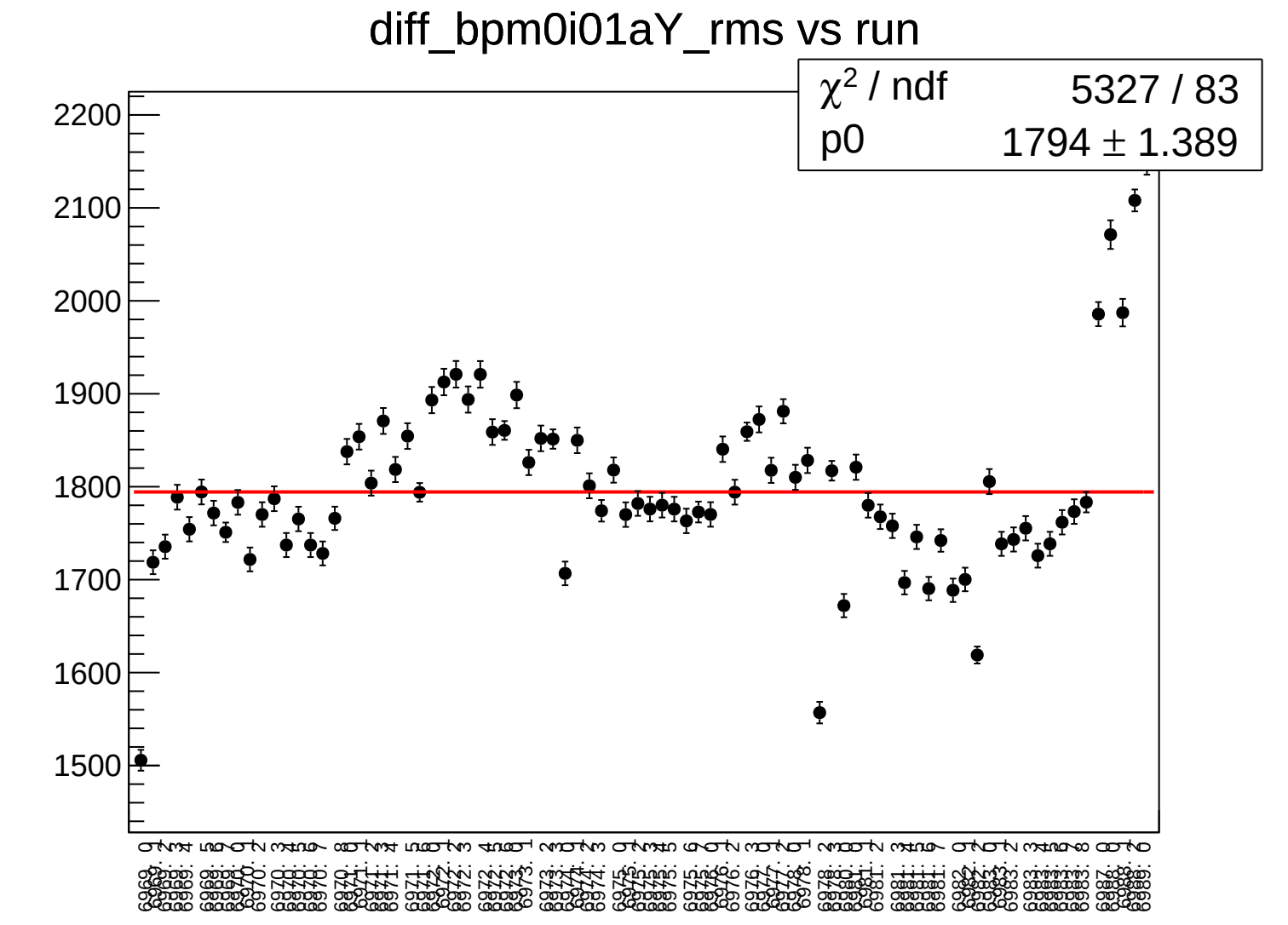

diff_bpm0i01aX_mean vs run
χ² / ndf 104.2 / 83
p0 8.964 ± 2.298
pull
Entries 84
Mean −125.1
Std Dev 0

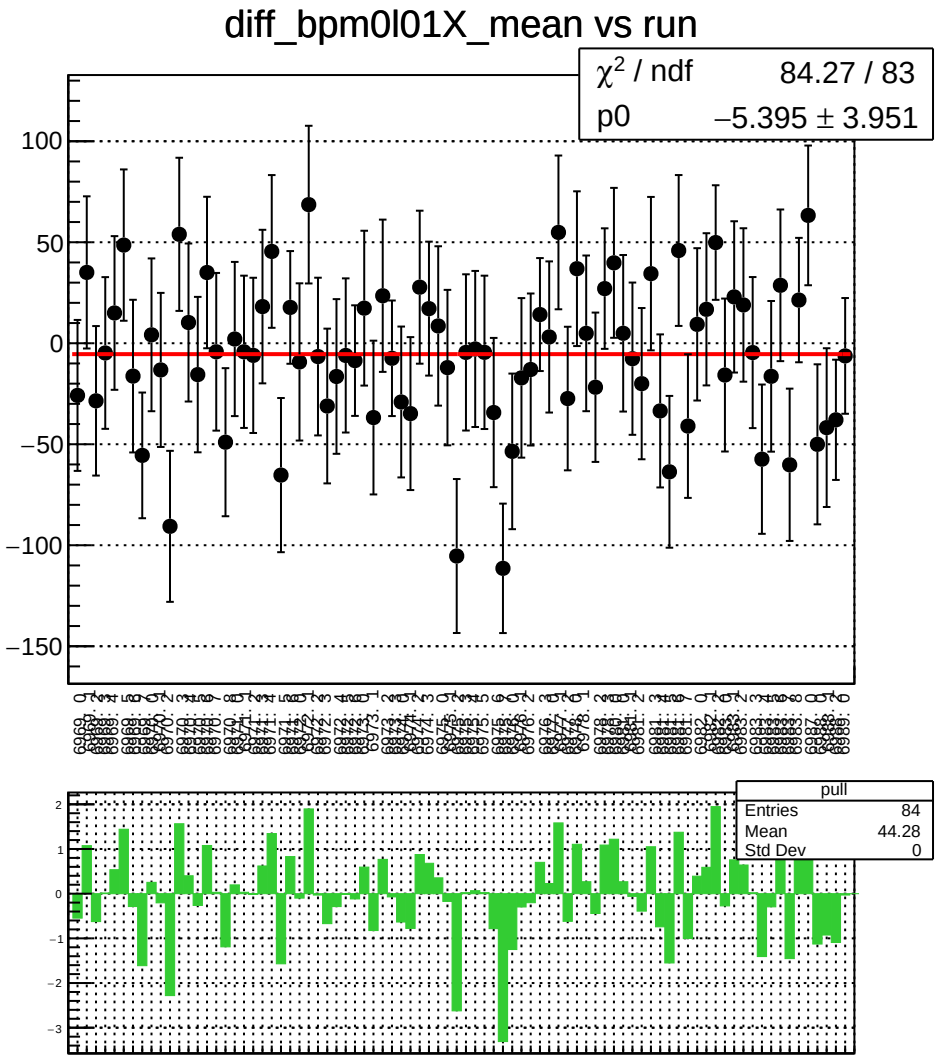

pull1D
Entries 84
Mean −0.006172
Std Dev 1.114

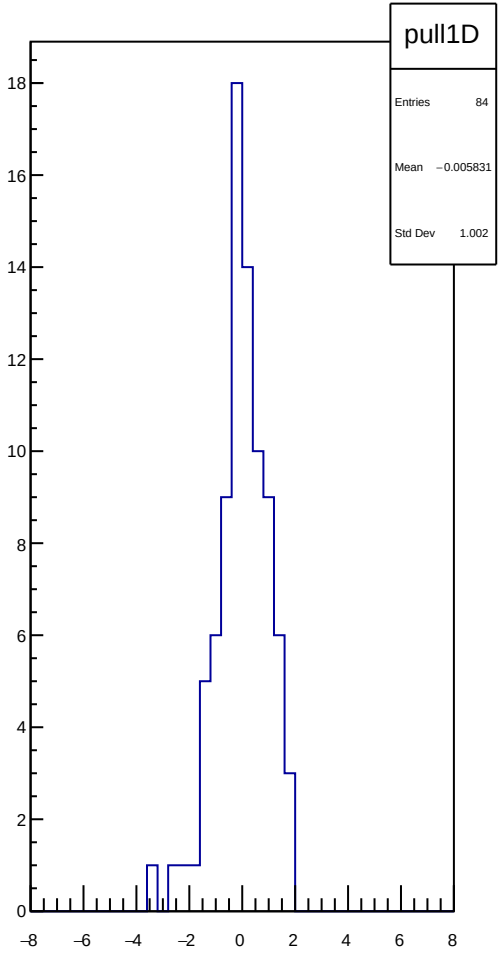

diff_bpm0i01aX_rms vs run
χ² / ndf 9191 / 83
p0 2096 ± 1.625
2800
2600
2400
2200
2000
1800

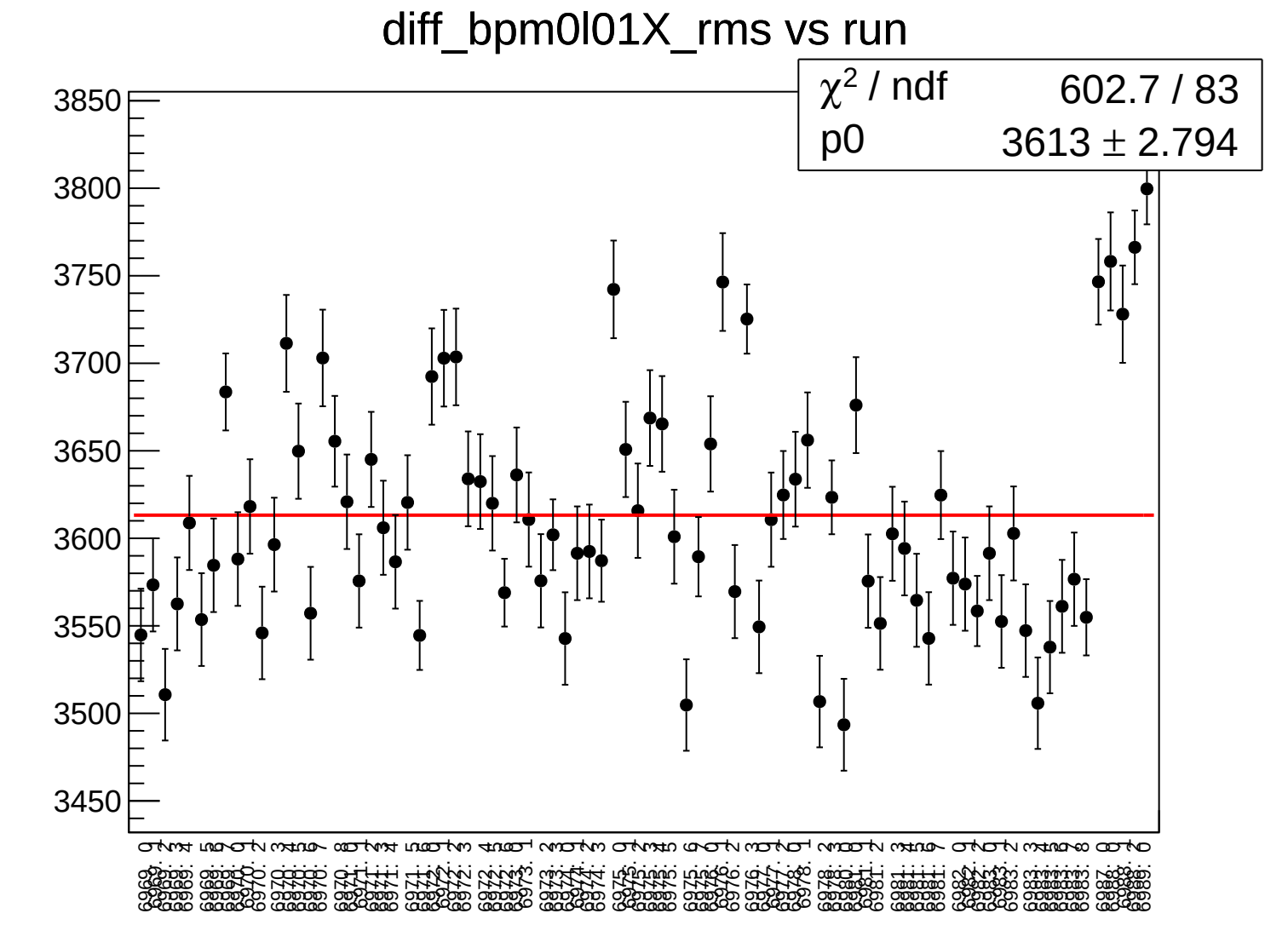

diff_bpm0i01aY_mean vs run
χ² / ndf 89.75 / 83
p0 11.5 ± 1.965
pull
Entries 84
Mean −1793
Std Dev 0

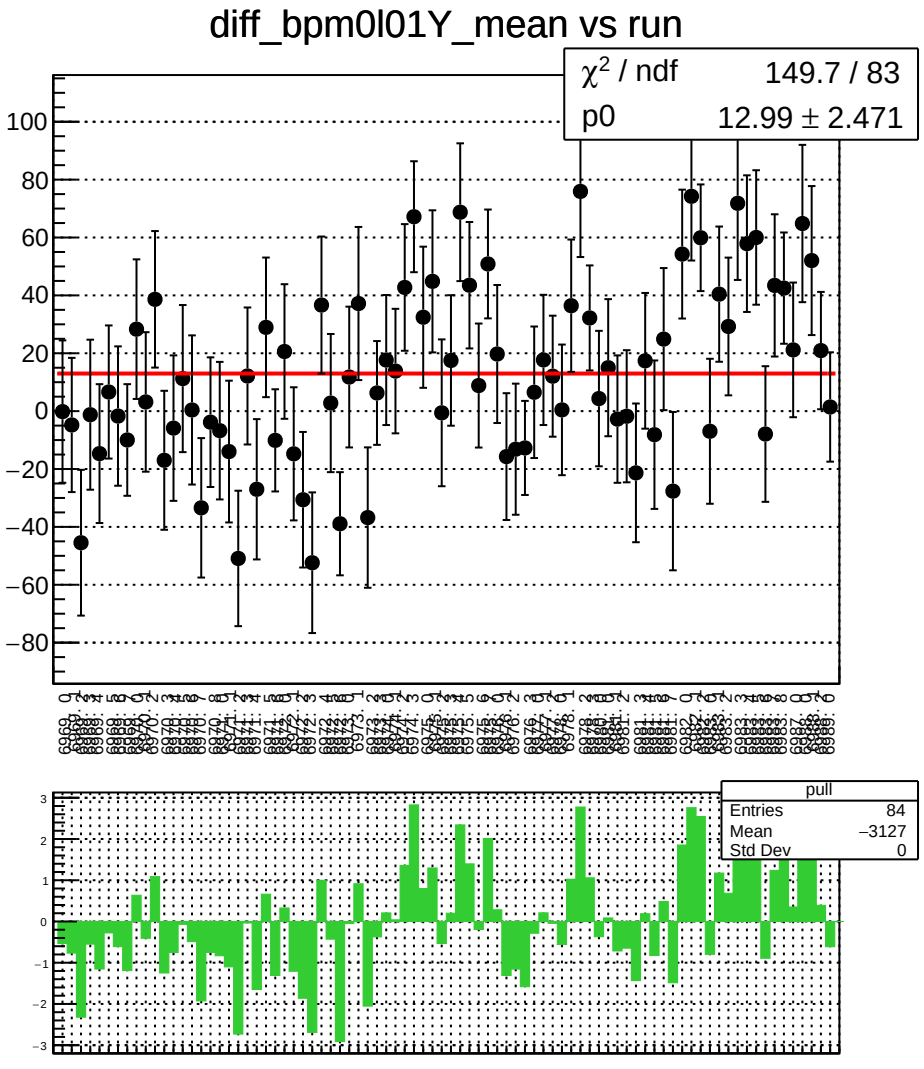

pull1D
Entries 84
Mean 0.002002
Std Dev 1.034

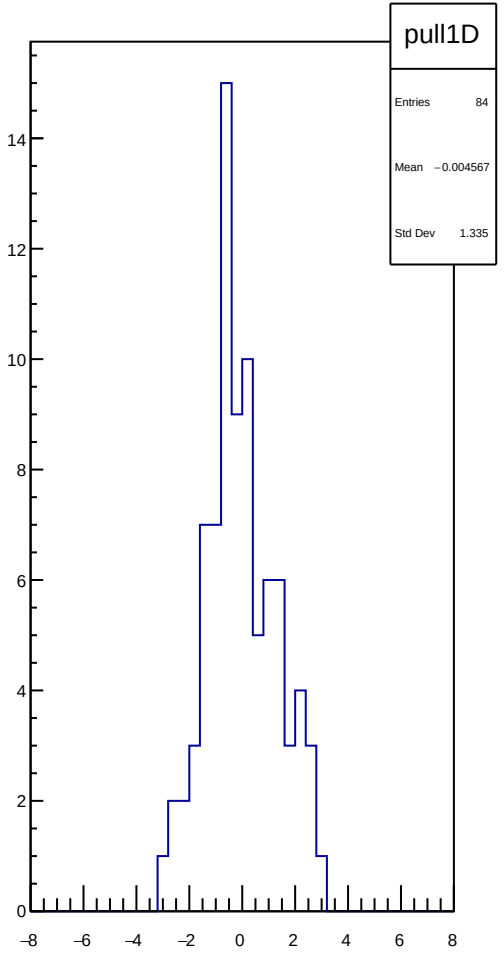

diff_bpm0i01aY_rms vs run
χ² / ndf 5327 / 83
p0 1794 ± 1.389
2200
2100
2000
1900
1800
1700
1600
1500

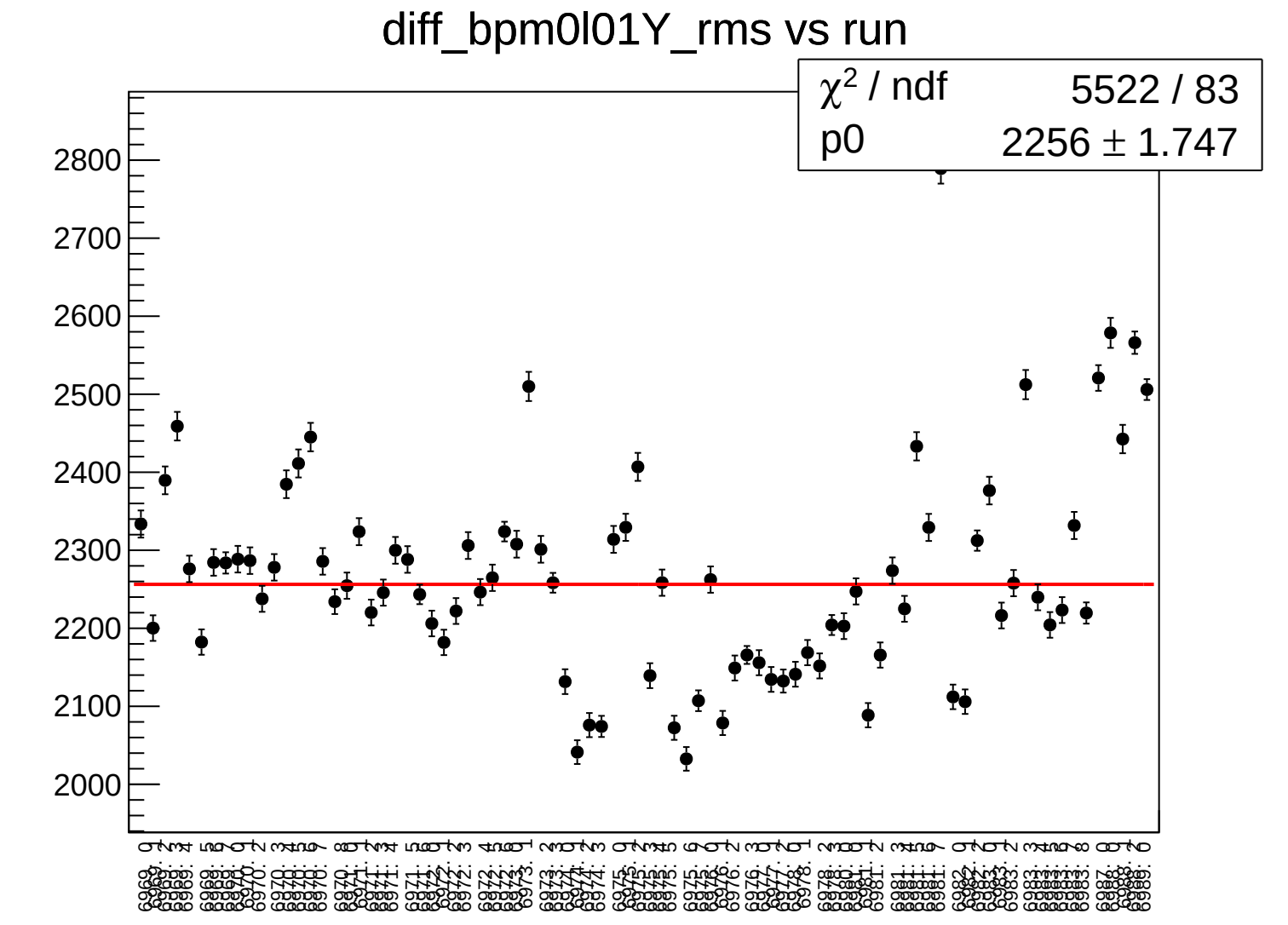

diff_bpm0l01X_mean vs run
χ² / ndf 84.27 / 83
p0 −5.395 ± 3.951
pull
Entries 84
Mean 44.28
Std Dev 0

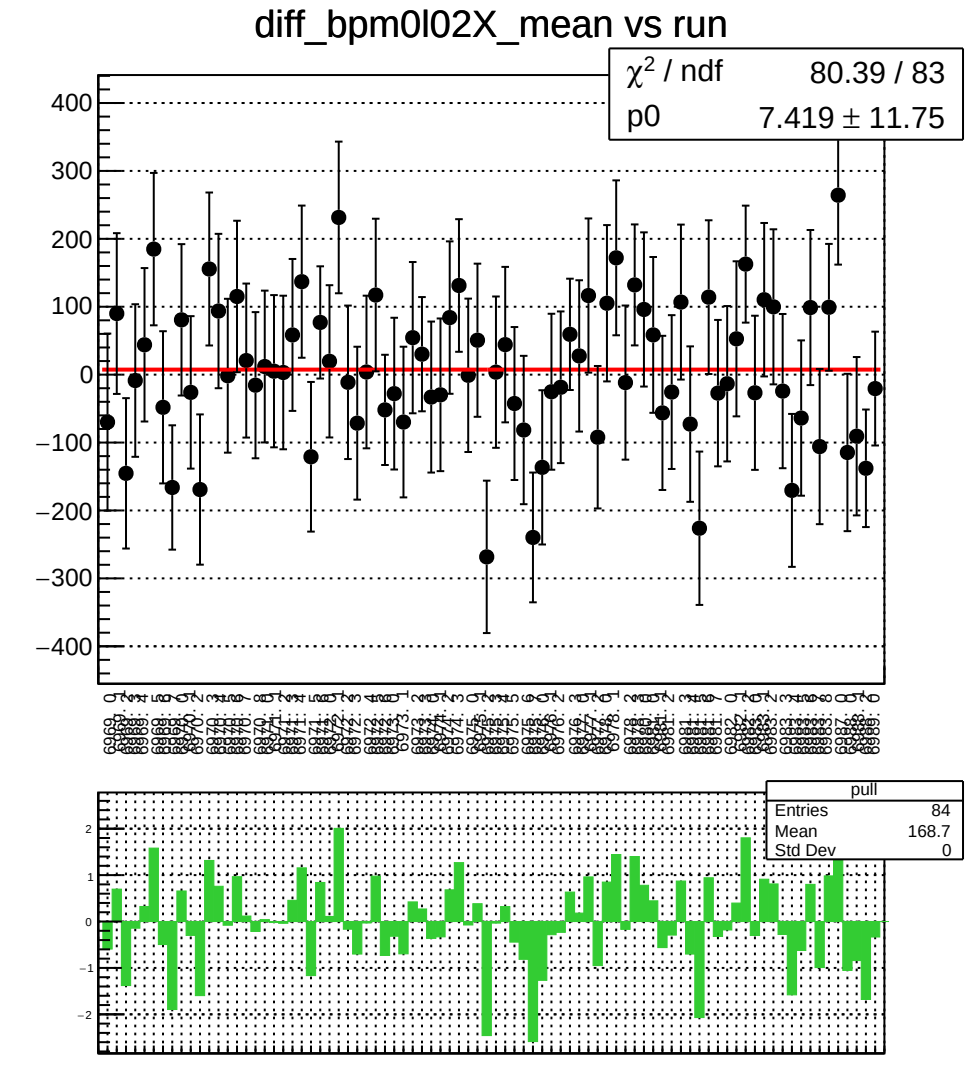

pull1D
Entries 84
Mean −0.005831
Std Dev 1.002

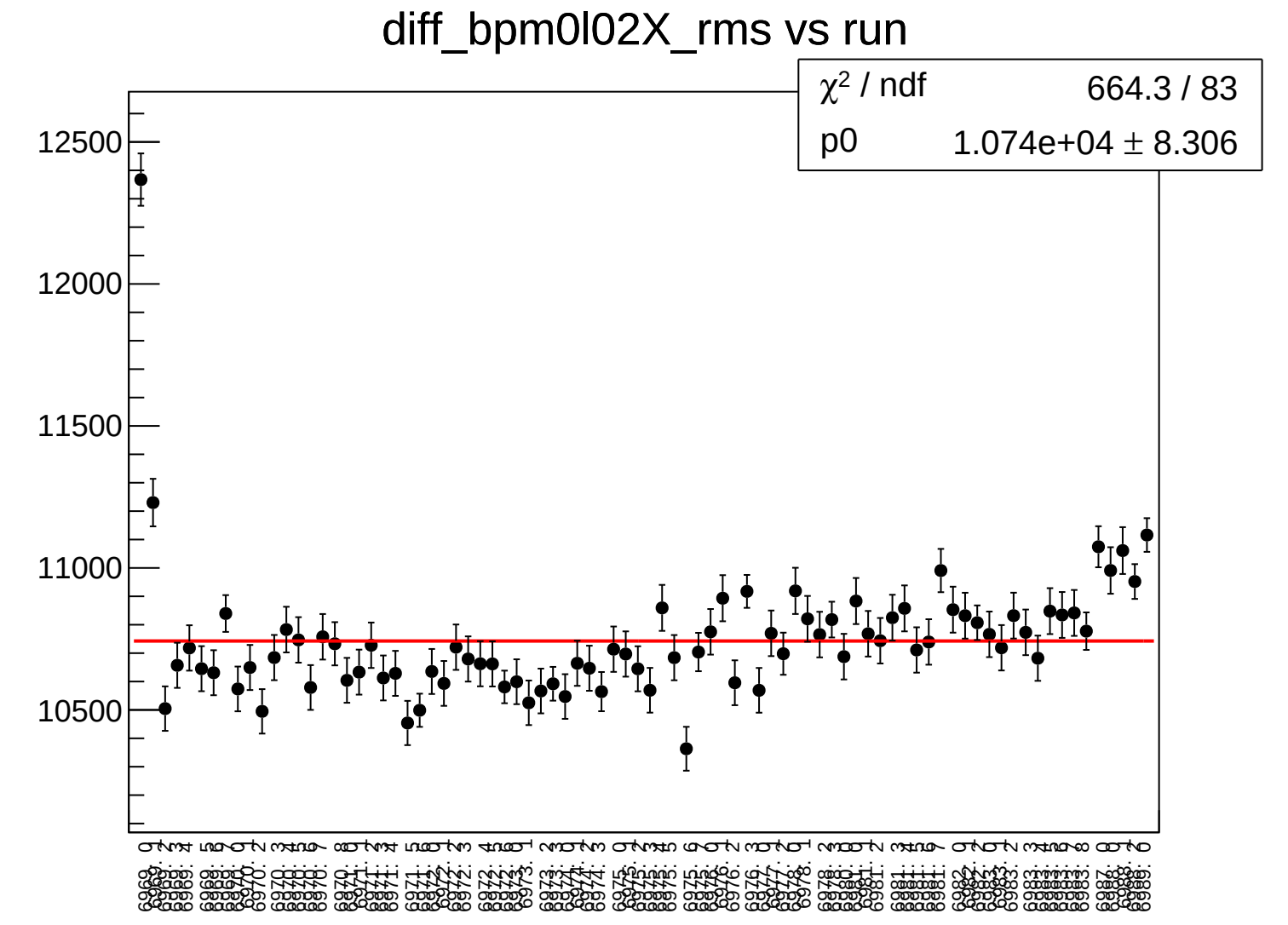

diff_bpm0l01X_rms vs run
χ² / ndf 602.7 / 83
p0 3613 ± 2.794
3850
3800
3750
3700
3650
3600
3550
3500
3450

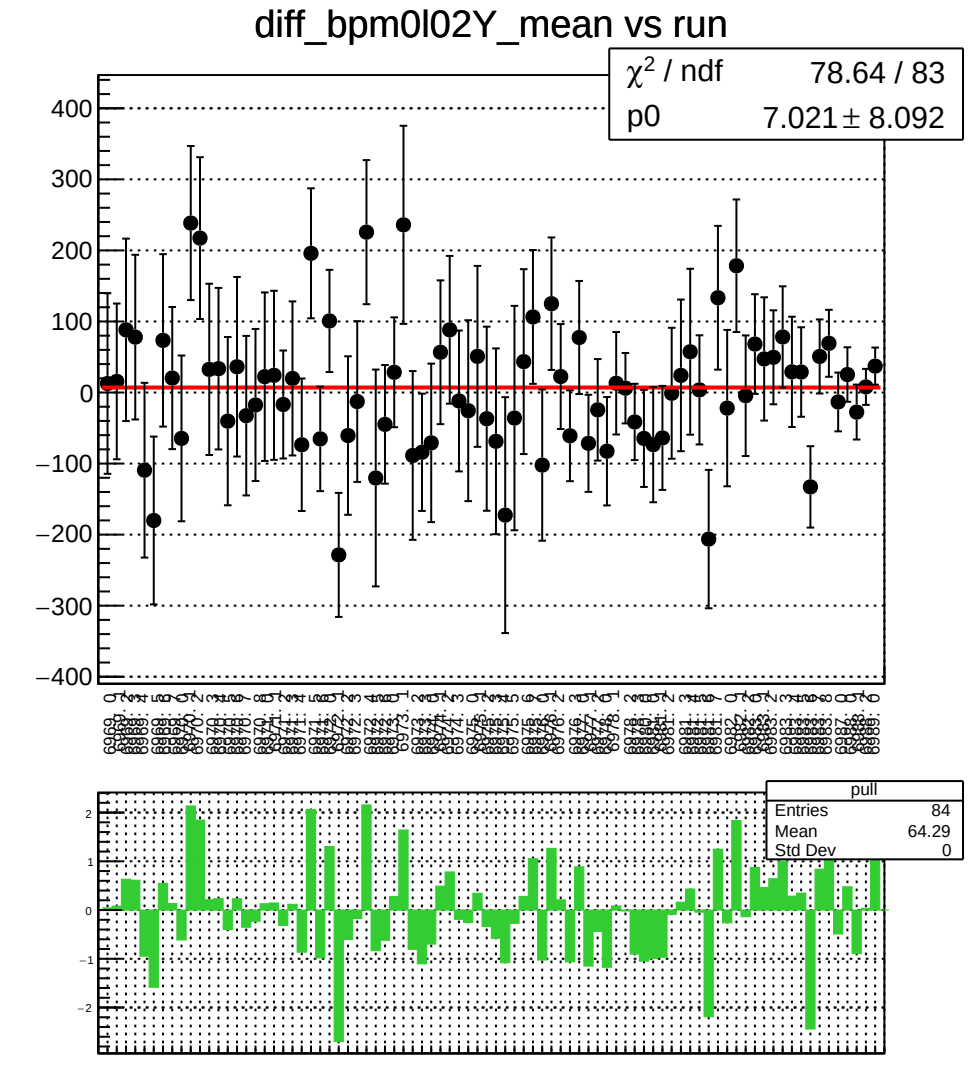

diff_bpm0l01Y_mean vs run
χ² / ndf 149.7 / 83
p0 12.99 ± 2.471
pull
Entries 84
Mean −3127
Std Dev 0

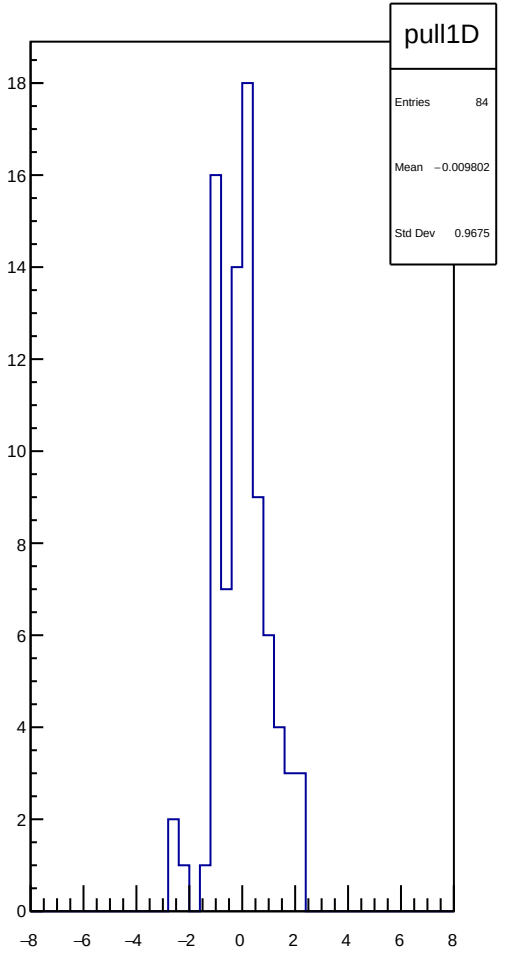

pull1D
Entries 84
Mean −0.004567
Std Dev 1.335

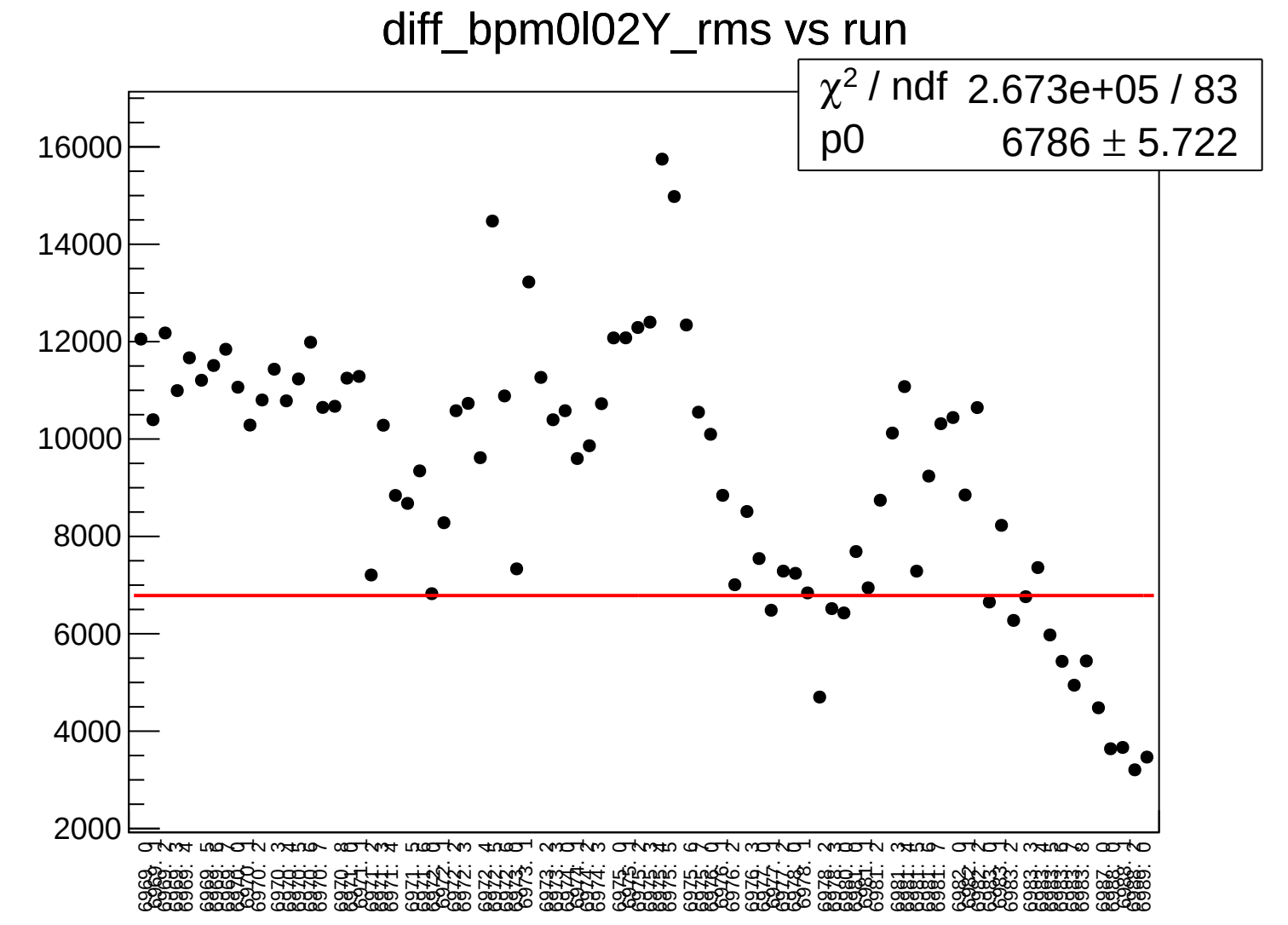

diff_bpm0l01Y_rms vs run
χ² / ndf 5522 / 83
p0 2256 ± 1.747
2800
2700
2600
2500
2400
2300
2200
2100
2000

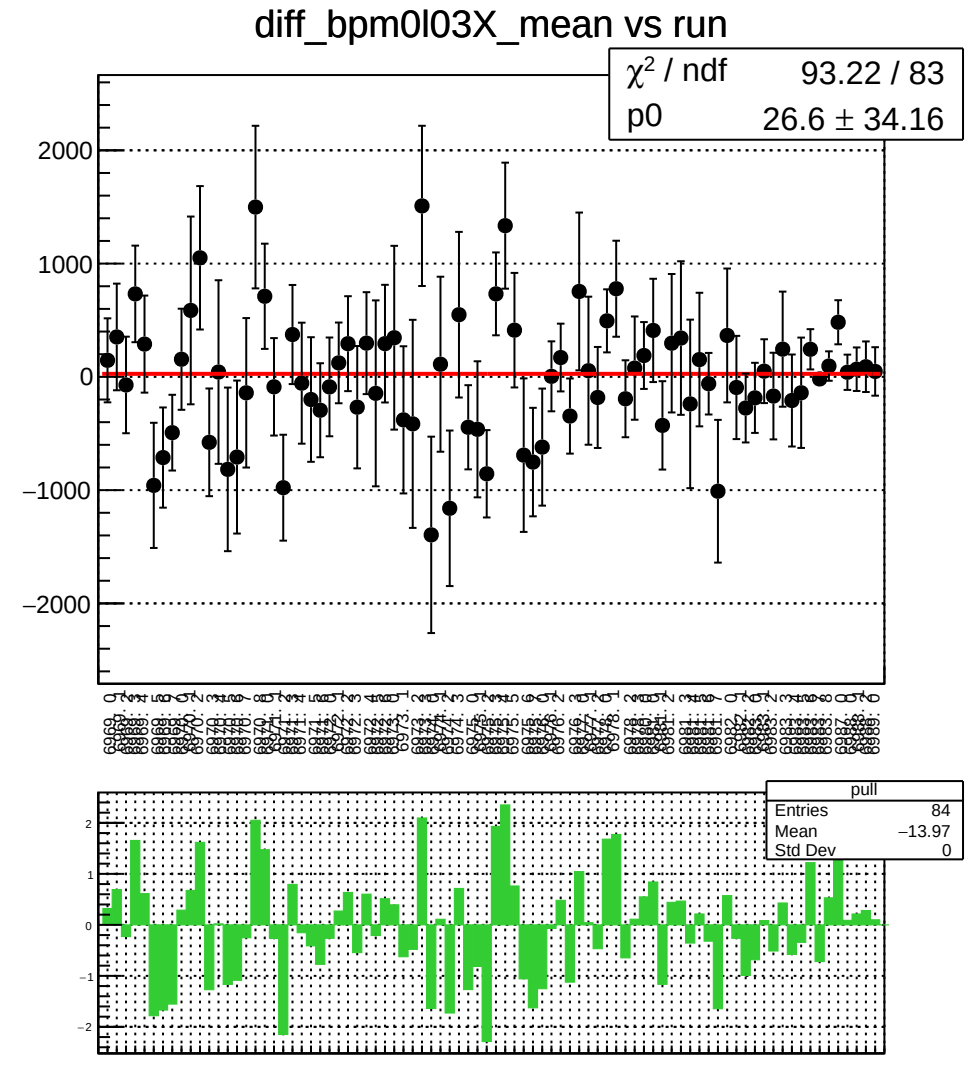

diff_bpm0l02X_mean vs run
χ² / ndf 80.39 / 83
p0 7.419 ± 11.75
pull
Entries 84
Mean 168.7
Std Dev 0
pull1D
Entries 84
Mean −0.003518
Std Dev 0.9783

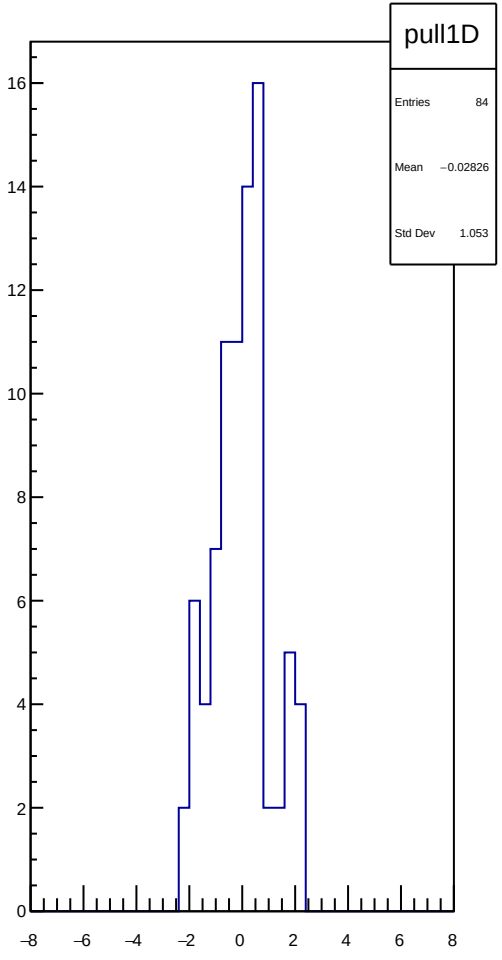

diff_bpm0l02X_rms vs run
χ² / ndf 664.3 / 83
p0 1.074e+04 ± 8.306
12500
12000
11500
11000
10500

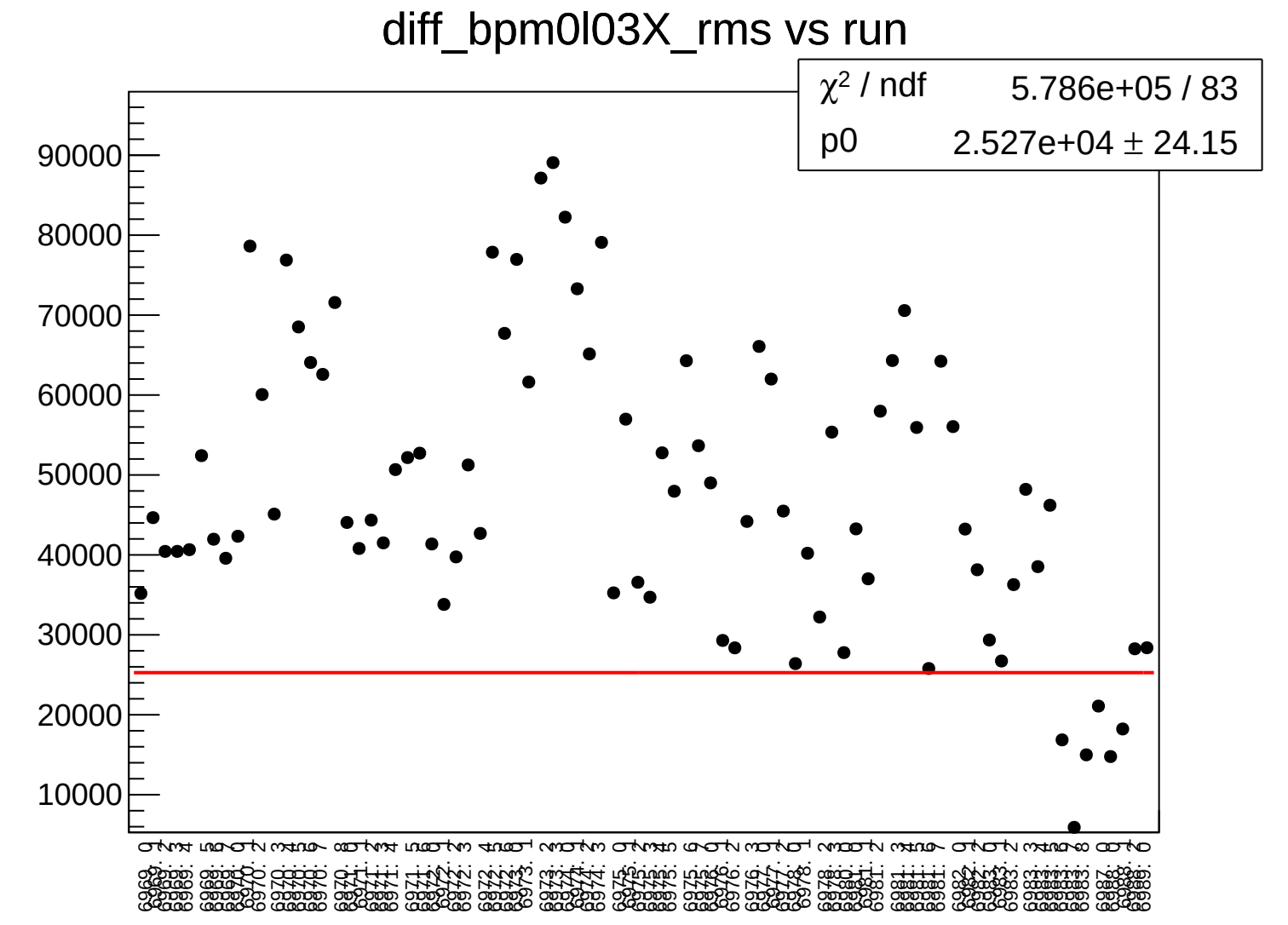

diff_bpm0l02Y_mean vs run
χ² / ndf 78.64 / 83
p0 7.021 ± 8.092
pull
Entries 84
Mean 64.29
Std Dev 0

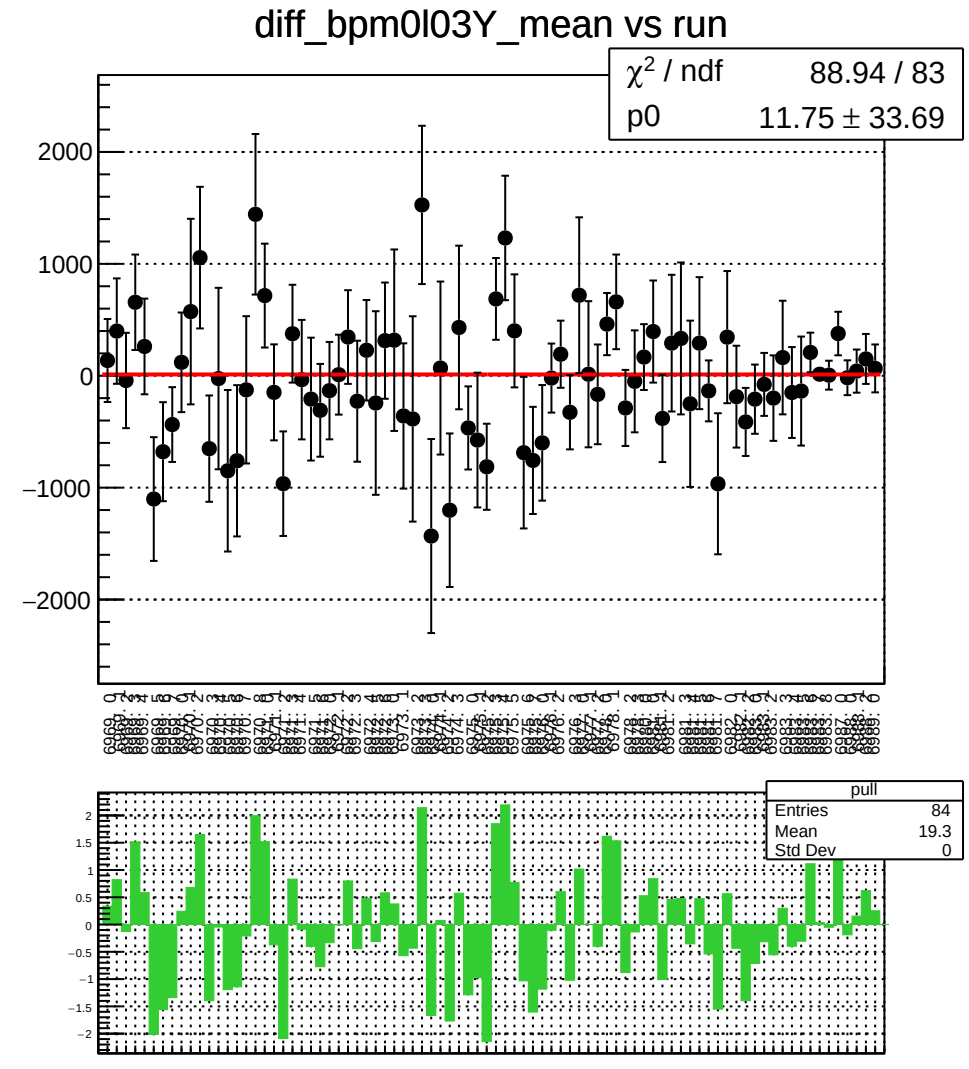

pull1D
Entries 84
Mean −0.009802
Std Dev 0.9675

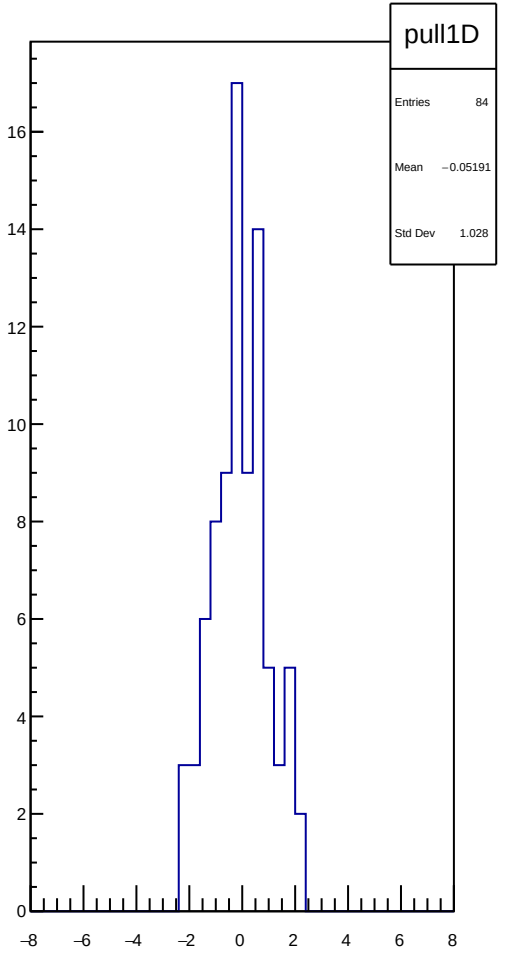

diff_bpm0l02Y_rms vs run
χ² / ndf 2.673e+05 / 83
p0 6786 ± 5.722
16000
14000
12000
10000
8000
6000
4000
2000

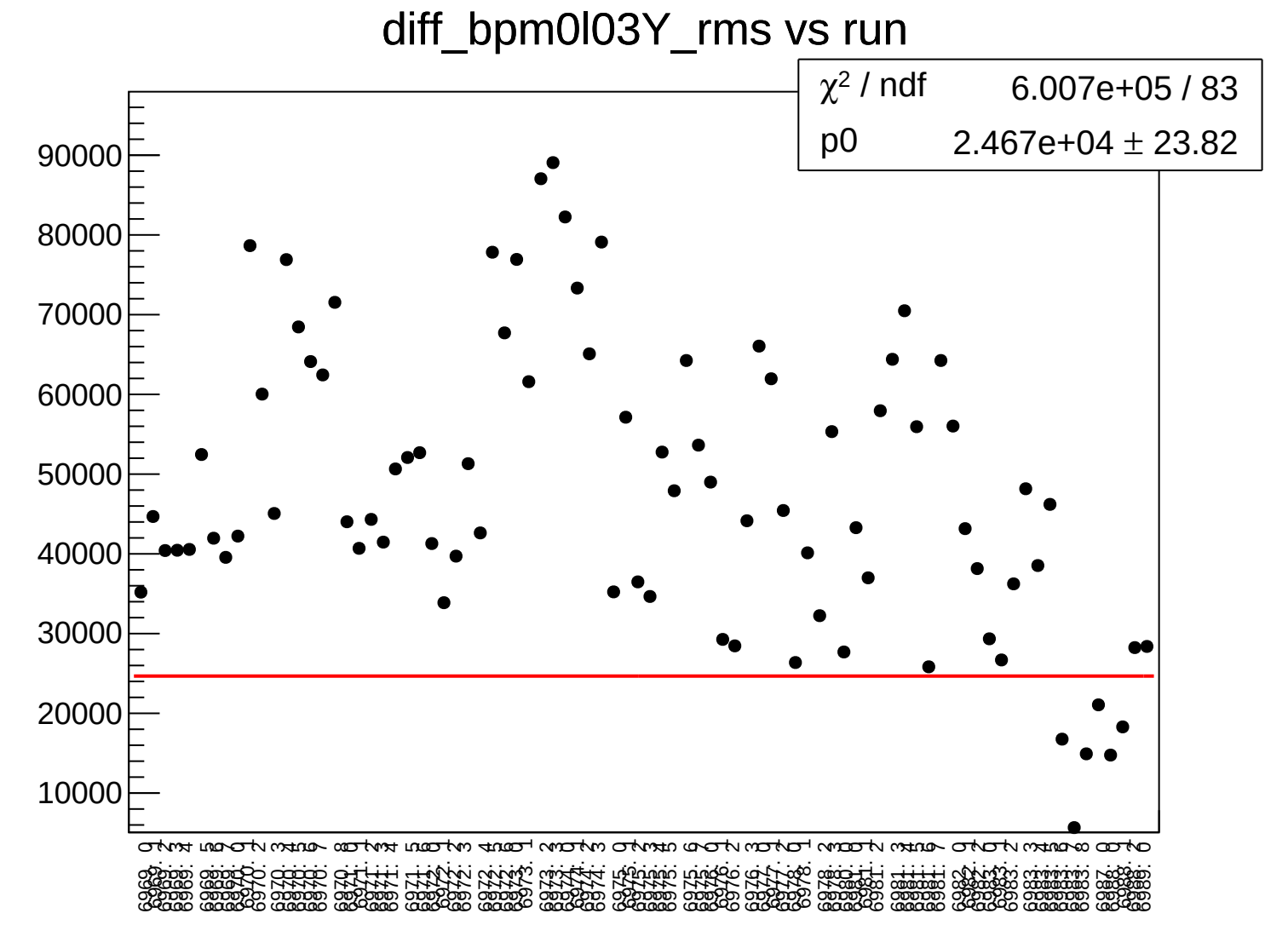

diff_bpm0l03X_mean vs run
χ² / ndf 93.22 / 83
p0 26.6 ± 34.16
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −13.97
Std Dev 0
2
1
0
−1
−2

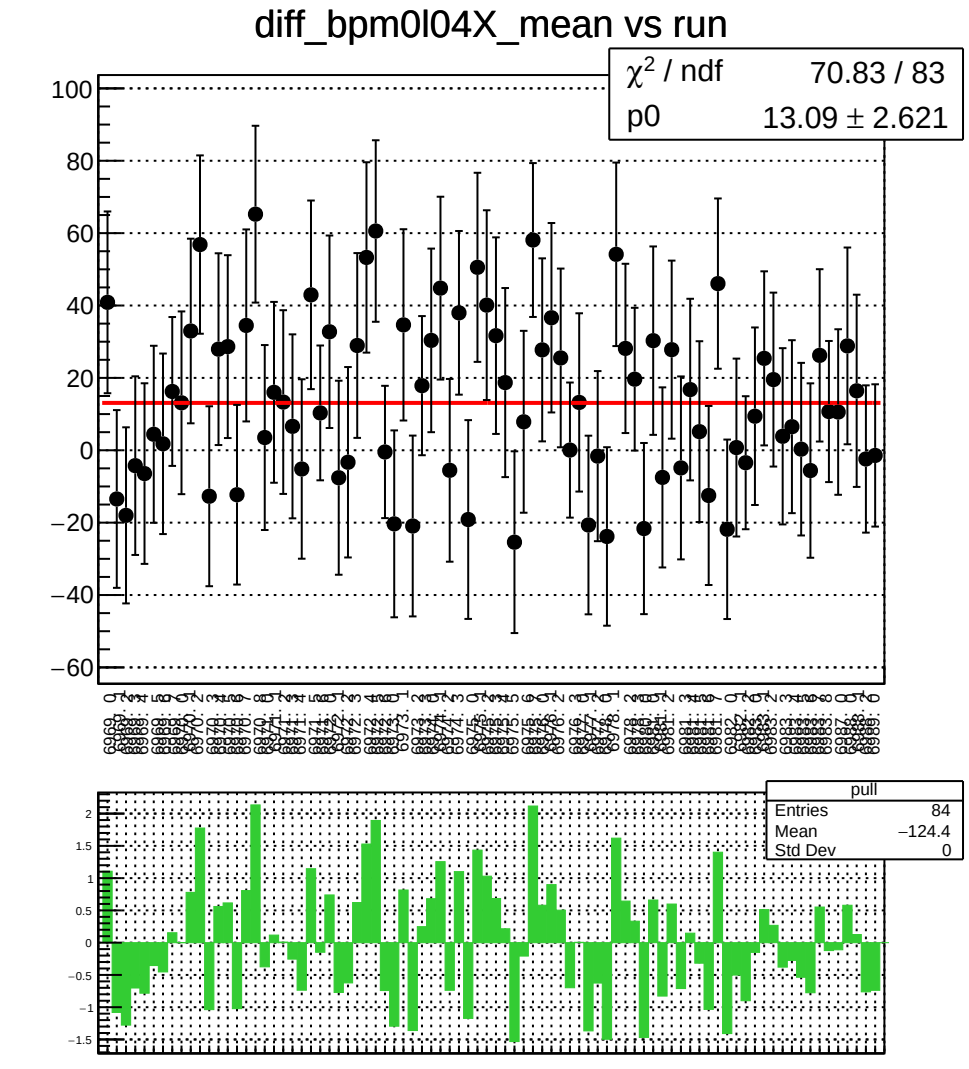

pull1D
Entries 84
Mean −0.02826
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

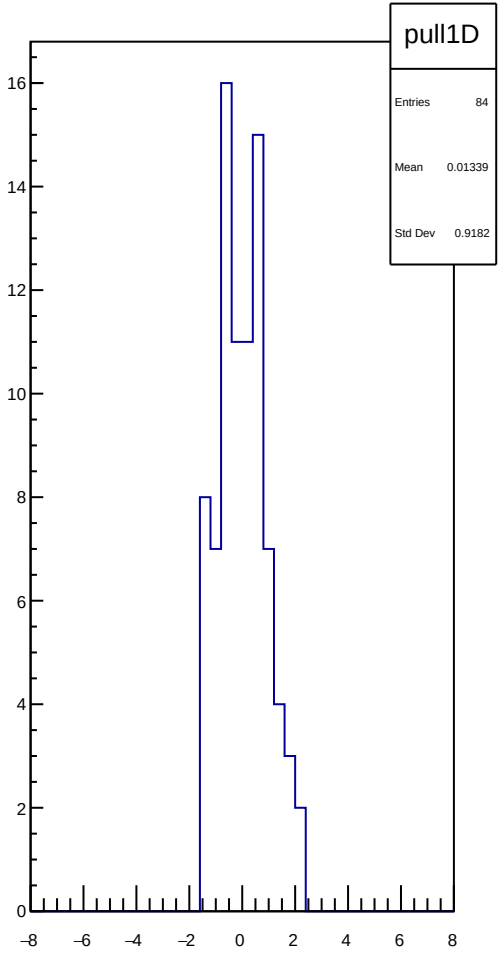

diff_bpm0l03X_rms vs run
χ² / ndf 5.786e+05 / 83
p0 2.527e+04 ± 24.15
90000
80000
70000
60000
50000
40000
30000
20000
10000

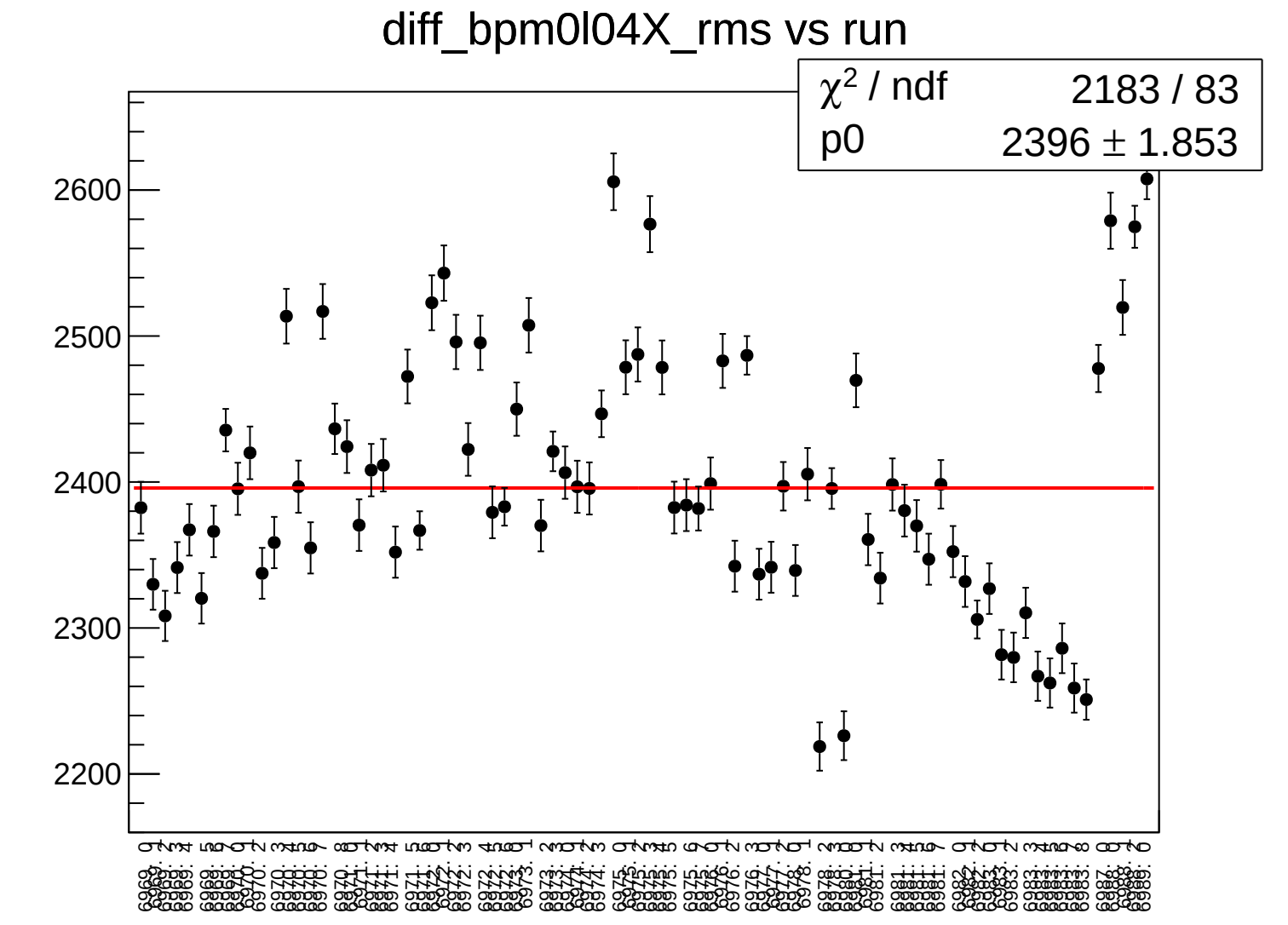

diff_bpm0l03Y_mean vs run
χ² / ndf 88.94 / 83
p0 11.75 ± 33.69
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 19.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

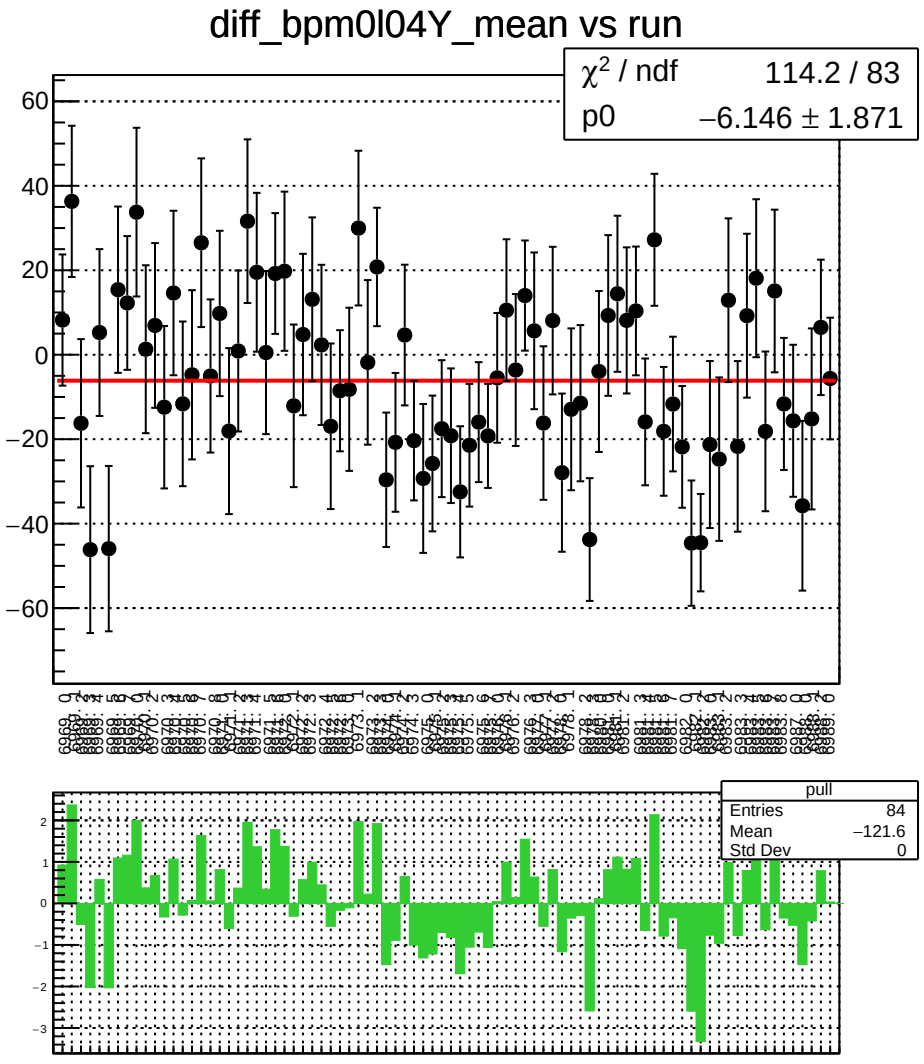

pull1D
Entries 84
Mean −0.05191
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

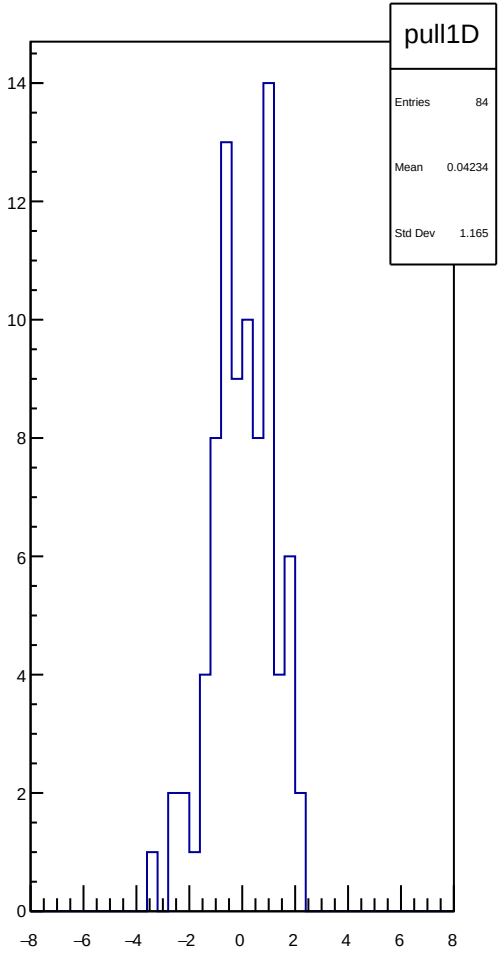

diff_bpm0l03Y_rms vs run
χ² / ndf 6.007e+05 / 83
p0 2.467e+04 ± 23.82
90000
80000
70000
60000
50000
40000
30000
20000
10000

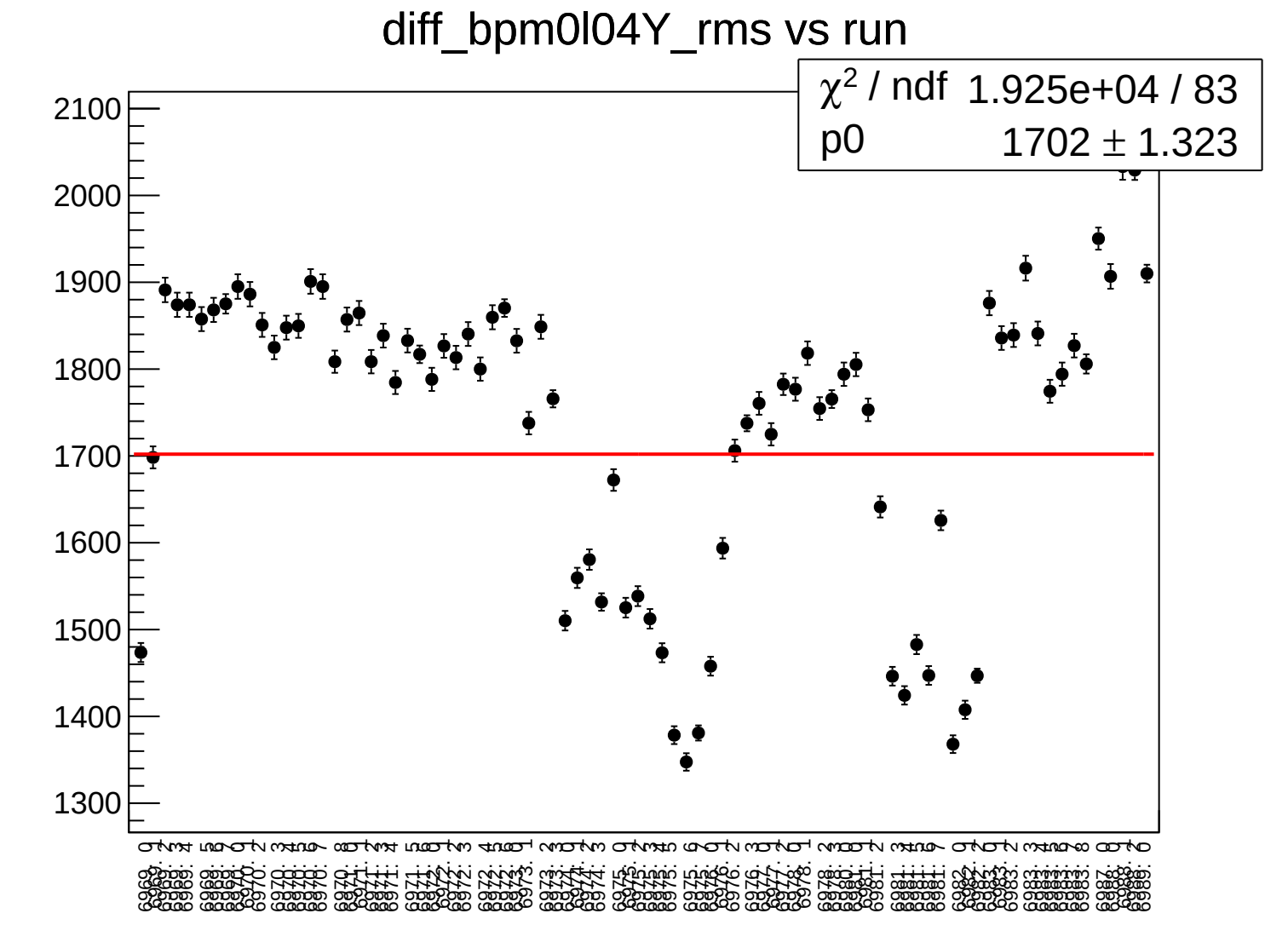

diff_bpm0l04X_mean vs run
χ² / ndf 70.83 / 83
p0 13.09 ± 2.621
pull
Entries 84
Mean −124.4
Std Dev 0

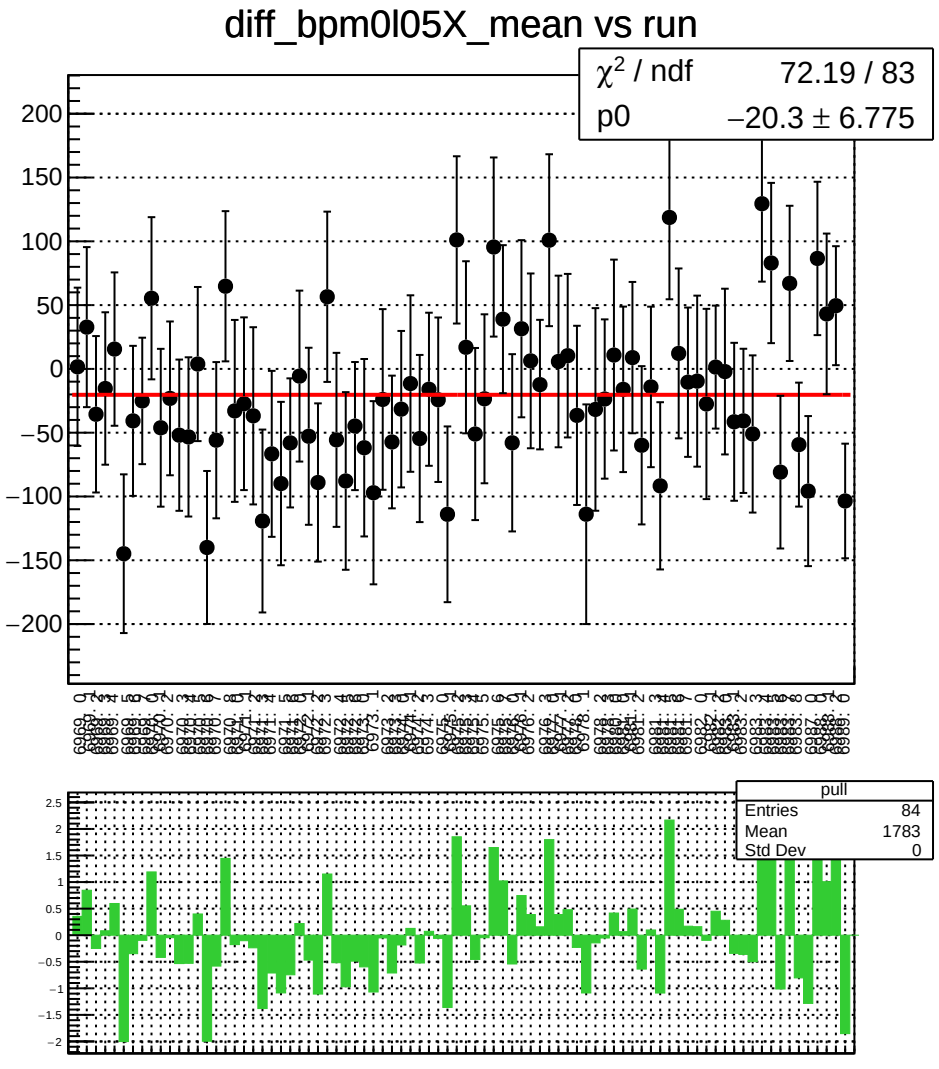

pull1D
Entries 84
Mean 0.01339
Std Dev 0.9182

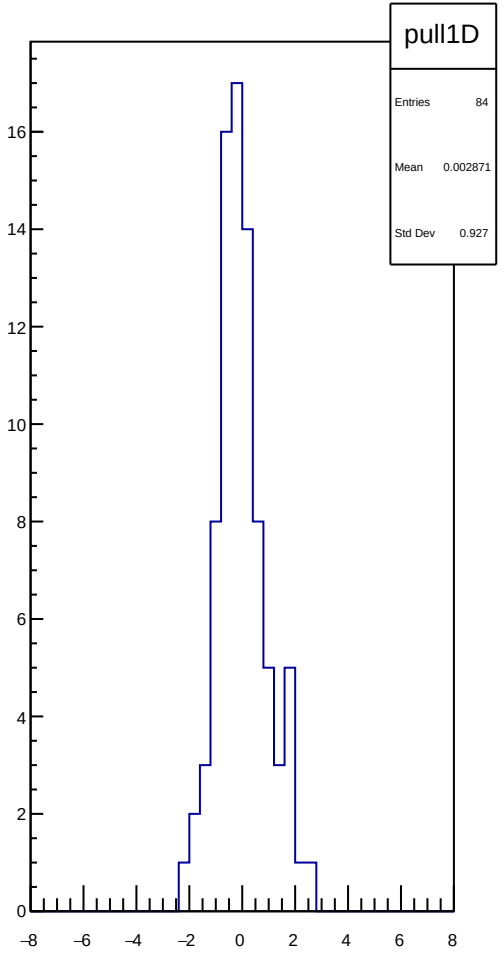

diff_bpm0l04X_rms vs run
χ² / ndf 2183 / 83
p0 2396 ± 1.853
2600
2500
2400
2300
2200

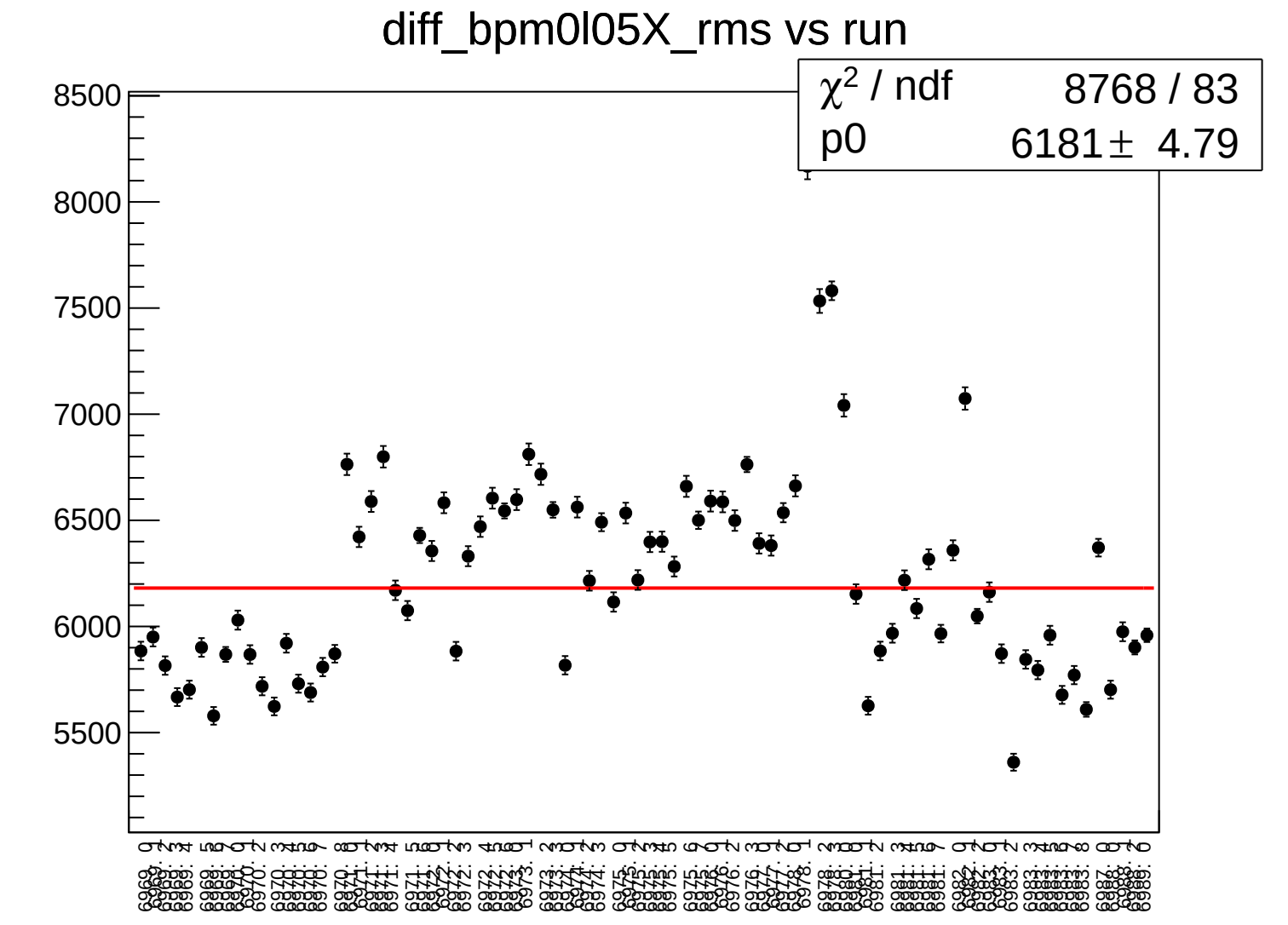

diff_bpm0l04Y_mean vs run
χ² / ndf 114.2 / 83
p0 −6.146 ± 1.871
pull
Entries 84
Mean −121.6
Std Dev 0

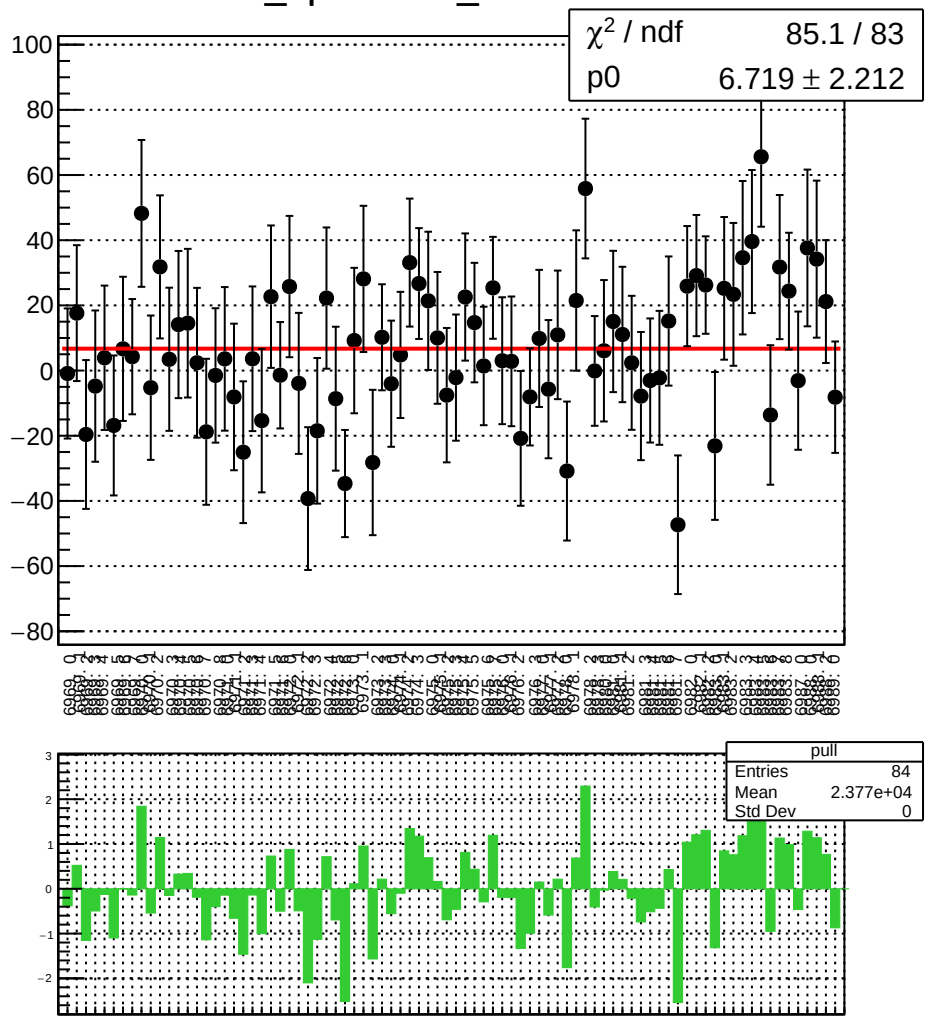

pull1D
Entries 84
Mean 0.04234
Std Dev 1.165

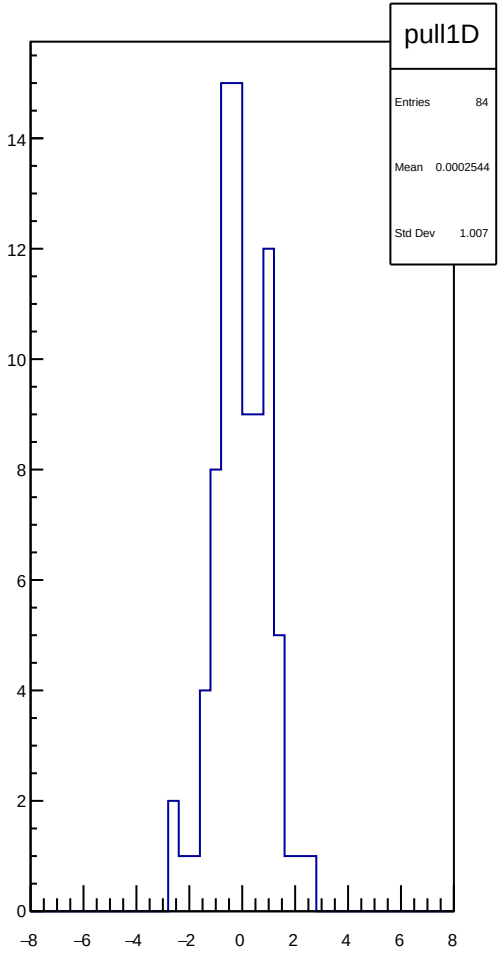

diff_bpm0l04Y_rms vs run
χ² / ndf 1.925e+04 / 83
p0 1702 ± 1.323
2100
2000
1900
1800
1700
1600
1500
1400
1300

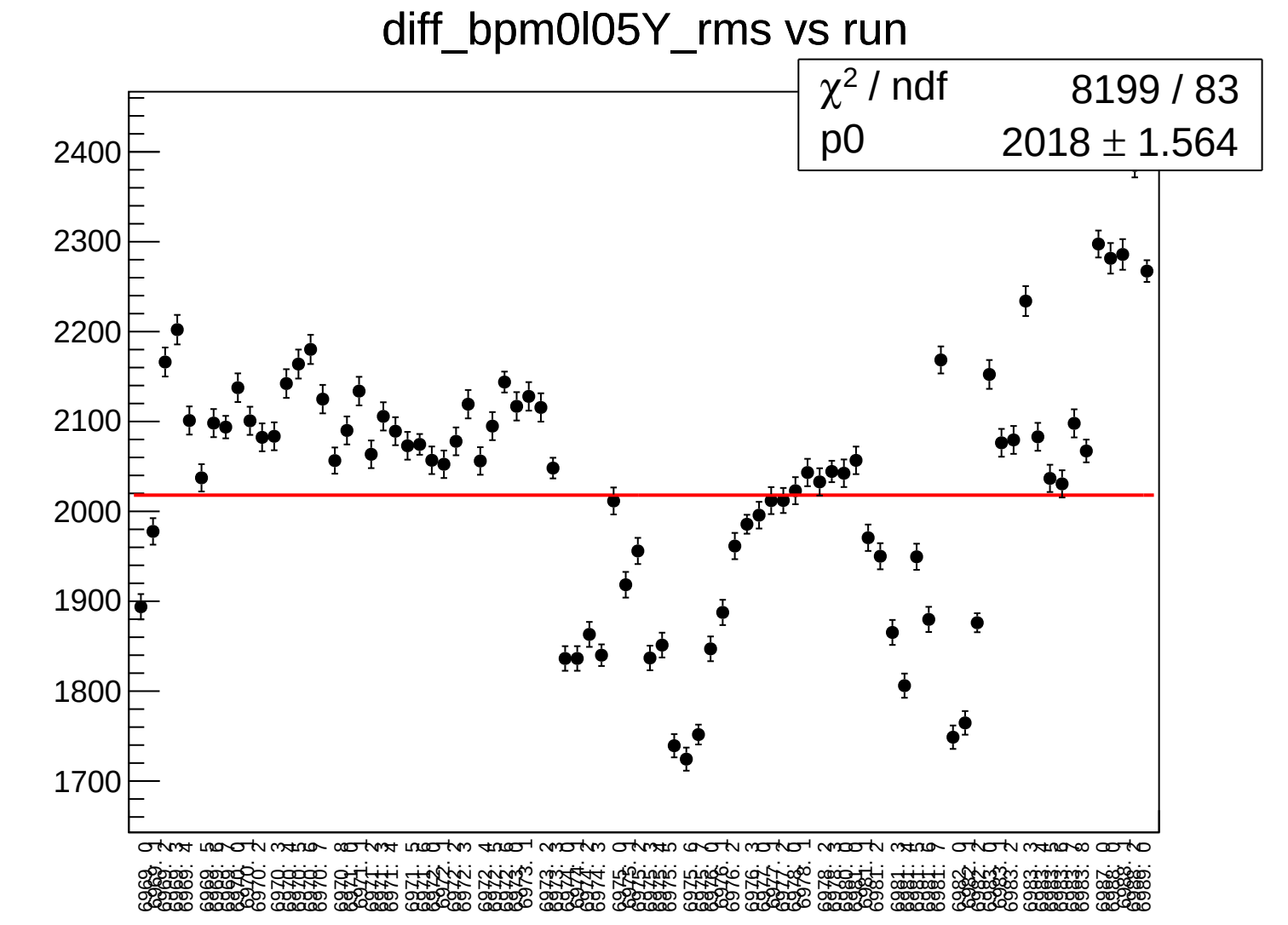

diff_bpm0l05X_mean vs run
χ² / ndf 72.19 / 83
p0 −20.3 ± 6.775
pull
Entries 84
Mean 1783
Std Dev 0

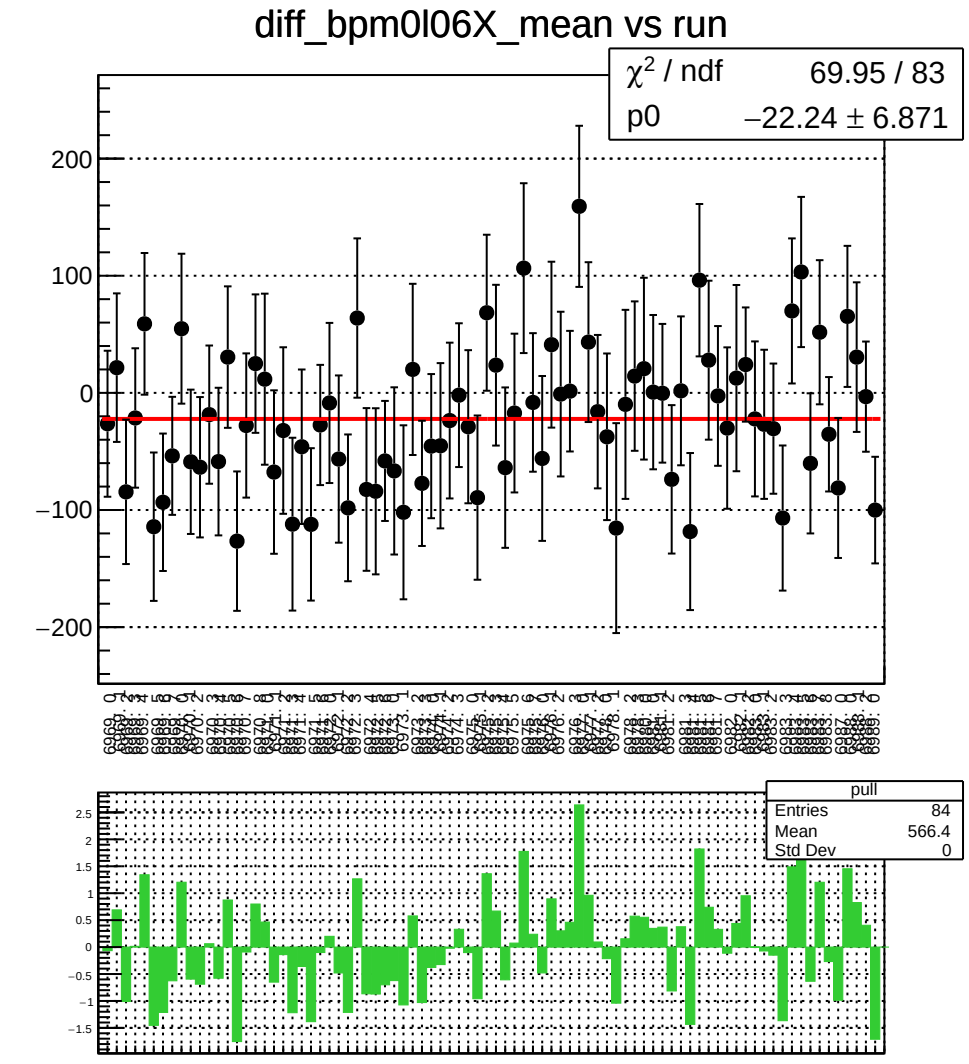

pull1D
Entries 84
Mean 0.002871
Std Dev 0.927

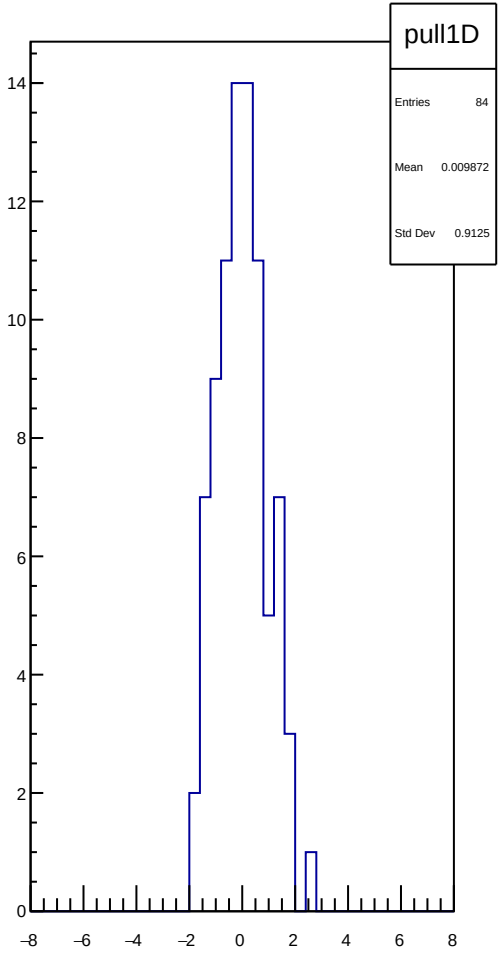

diff_bpm0l05X_rms vs run
χ² / ndf 8768 / 83
p0 6181 ± 4.79
8500
8000
7500
7000
6500
6000
5500

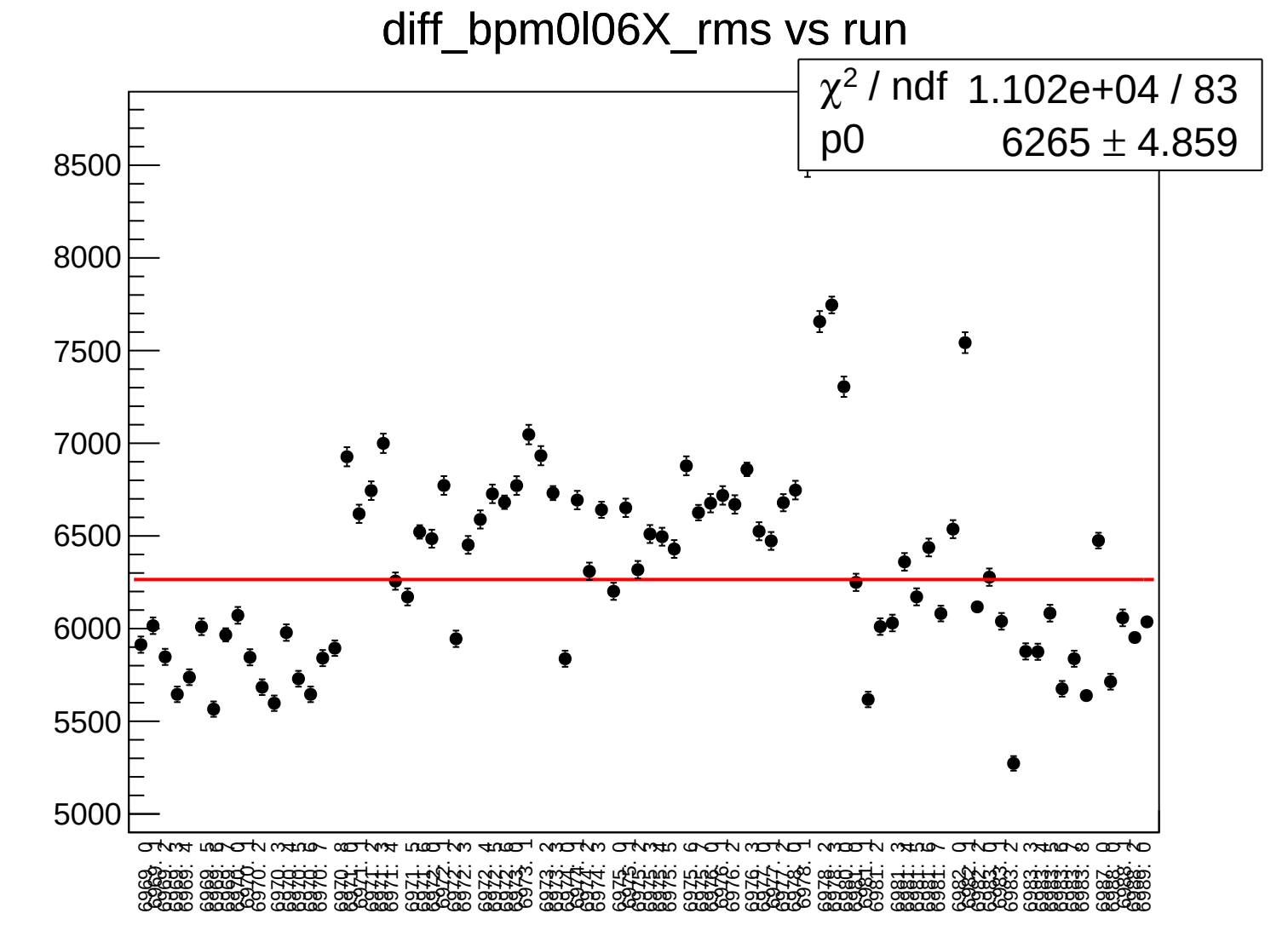

diff_bpm0l05Y_mean vs run
χ² / ndf 85.1 / 83
p0 6.719 ± 2.212
pull
Entries 84
Mean 2.377e+04
Std Dev 0

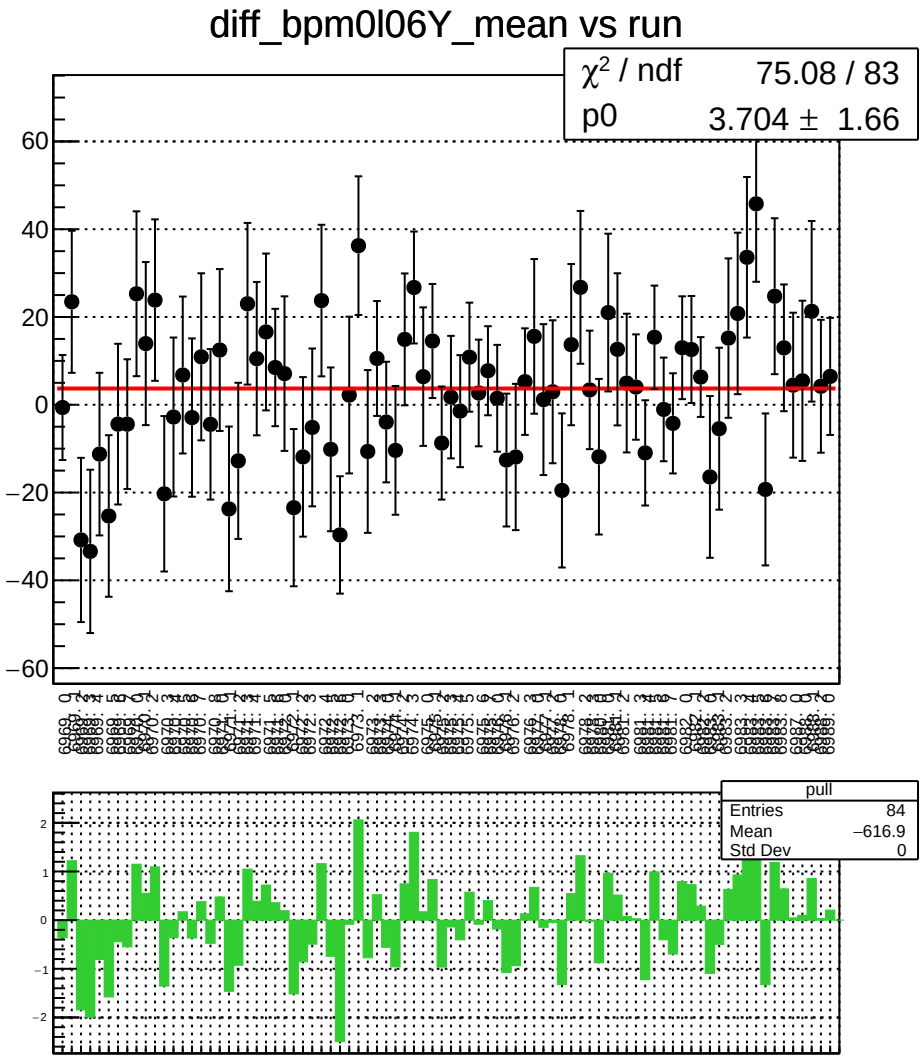

pull1D
Entries 84
Mean 0.0002544
Std Dev 1.007

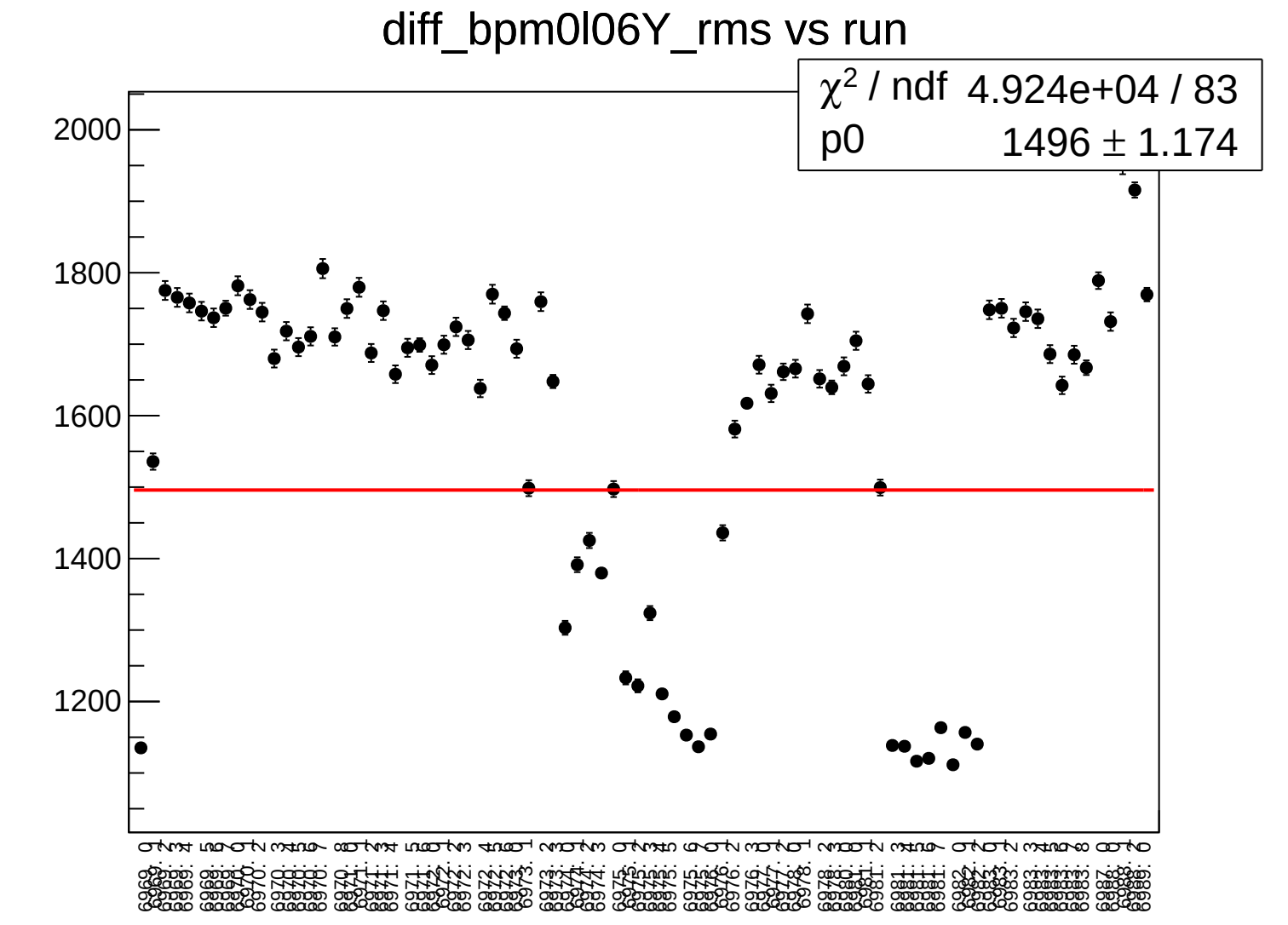

diff_bpm0l05Y_rms vs run
χ² / ndf 8199 / 83
p0 2018 ± 1.564
2400
2300
2200
2100
2000
1900
1800
1700

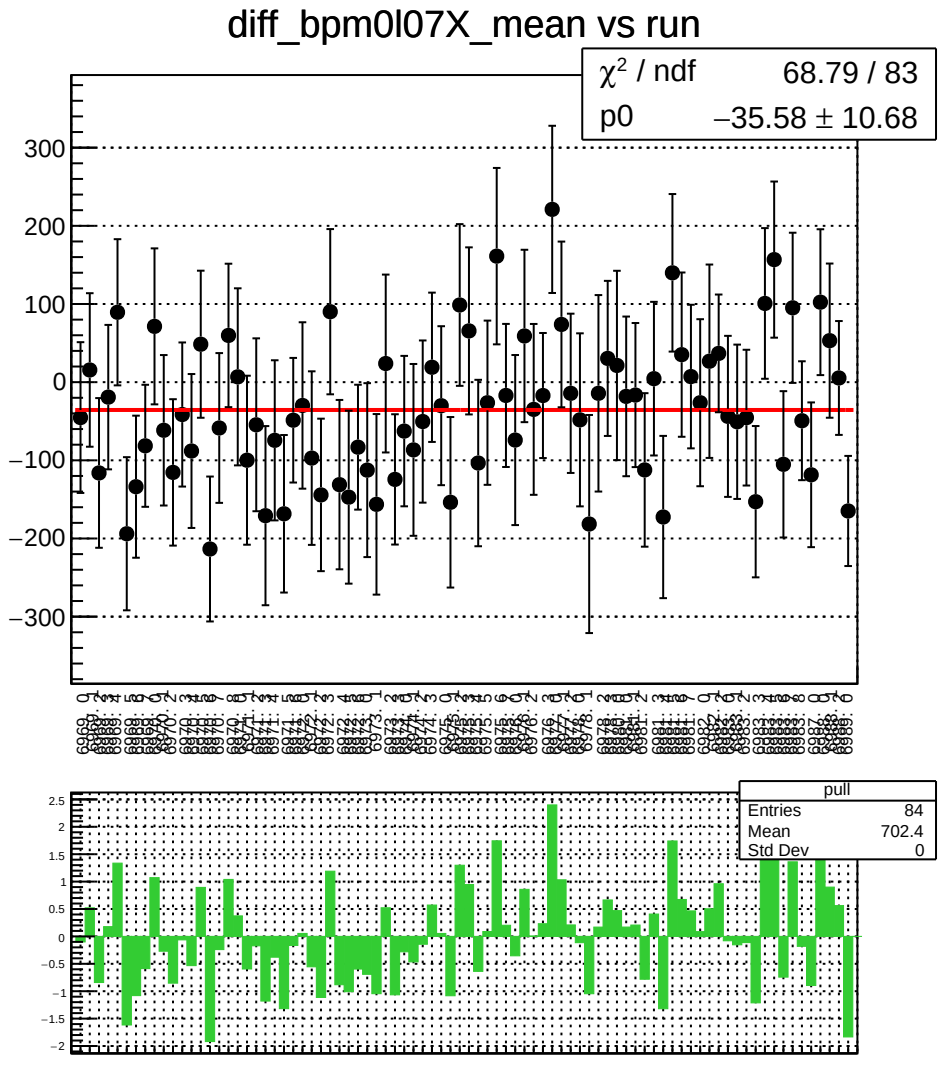

diff_bpm0l06X_mean vs run
χ² / ndf 69.95 / 83
p0 −22.24 ± 6.871
200
100
0
−100
−200
pull
Entries 84
Mean 566.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

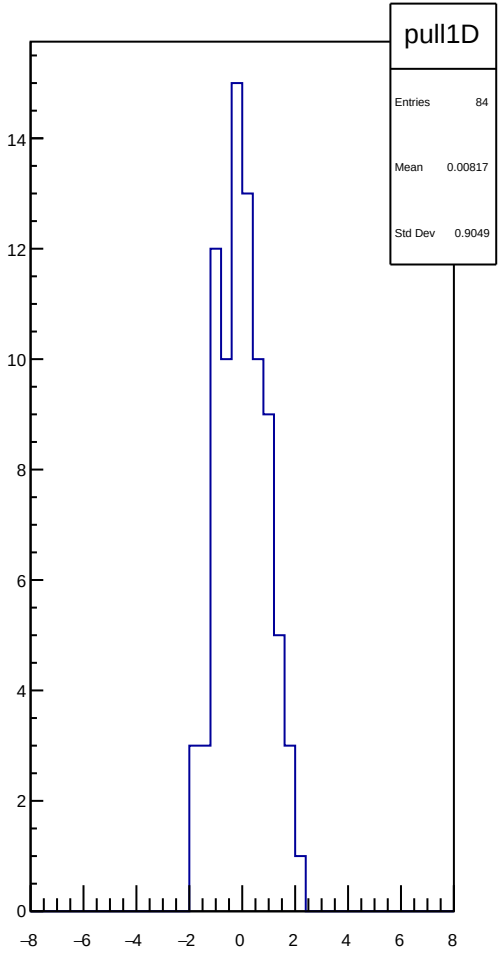

pull1D
Entries 84
Mean 0.009872
Std Dev 0.9125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

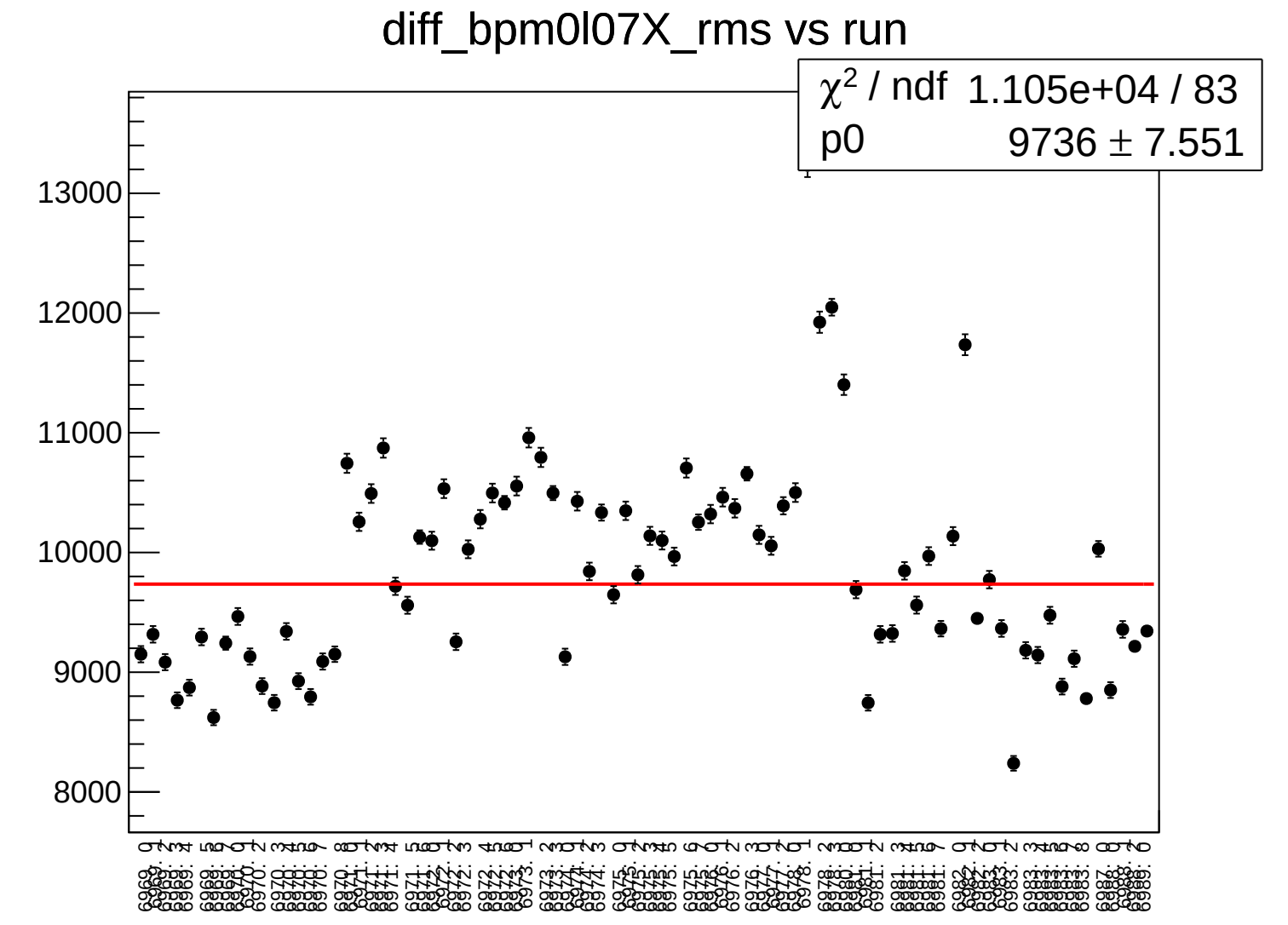

diff_bpm0l06X_rms vs run
χ^2 / ndf 1.102e+04 / 83
p0 6265 ± 4.859
8500
8000
7500
7000
6500
6000
5500
5000

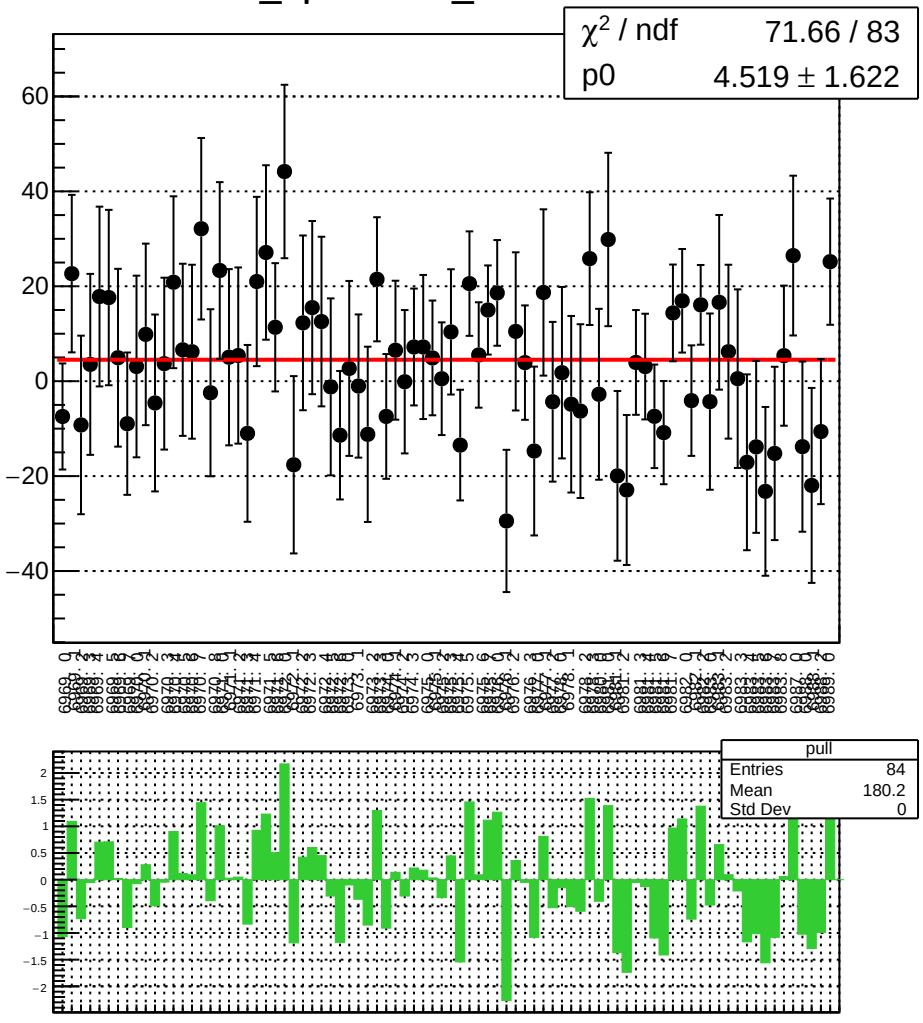

diff_bpm0l06Y_mean vs run
χ² / ndf 75.08 / 83
p0 3.704 ± 1.66
pull
Entries 84
Mean −616.9
Std Dev 0
pull1D
Entries 84
Mean −0.008708
Std Dev 0.9454

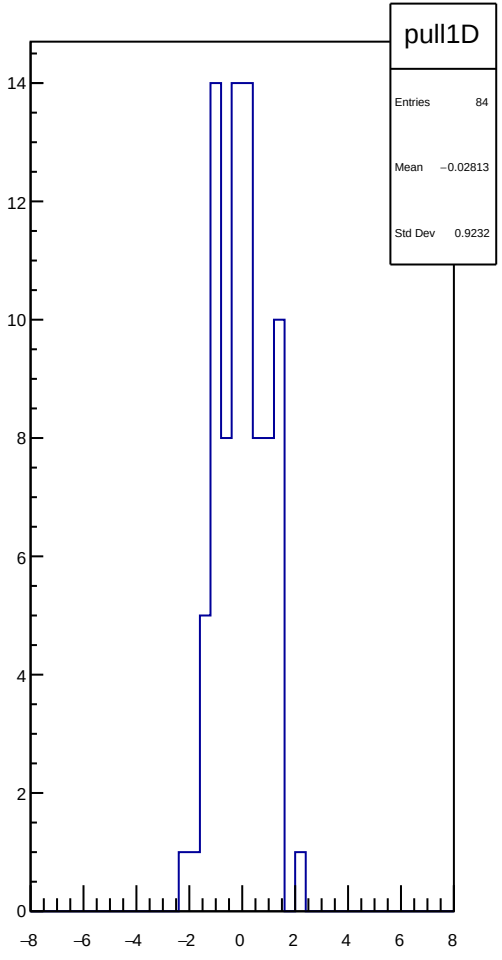

diff_bpm0l06Y_rms vs run
χ² / ndf 4.924e+04 / 83
p0 1496 ± 1.174
2000
1800
1600
1400
1200

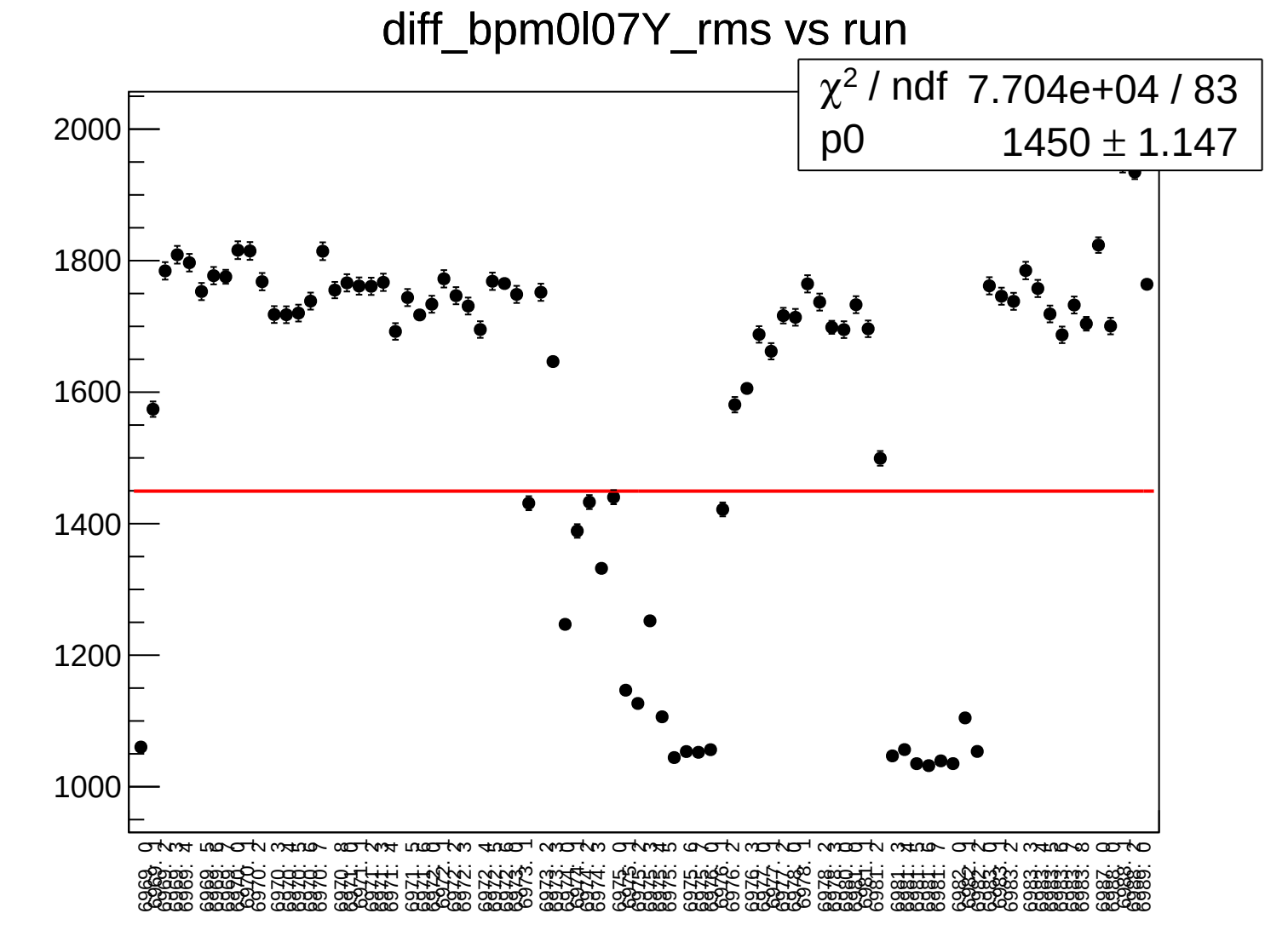

diff_bpm0l07X_mean vs run
χ² / ndf 68.79 / 83
p0 −35.58 ± 10.68
pull
Entries 84
Mean 702.4
Std Dev 0

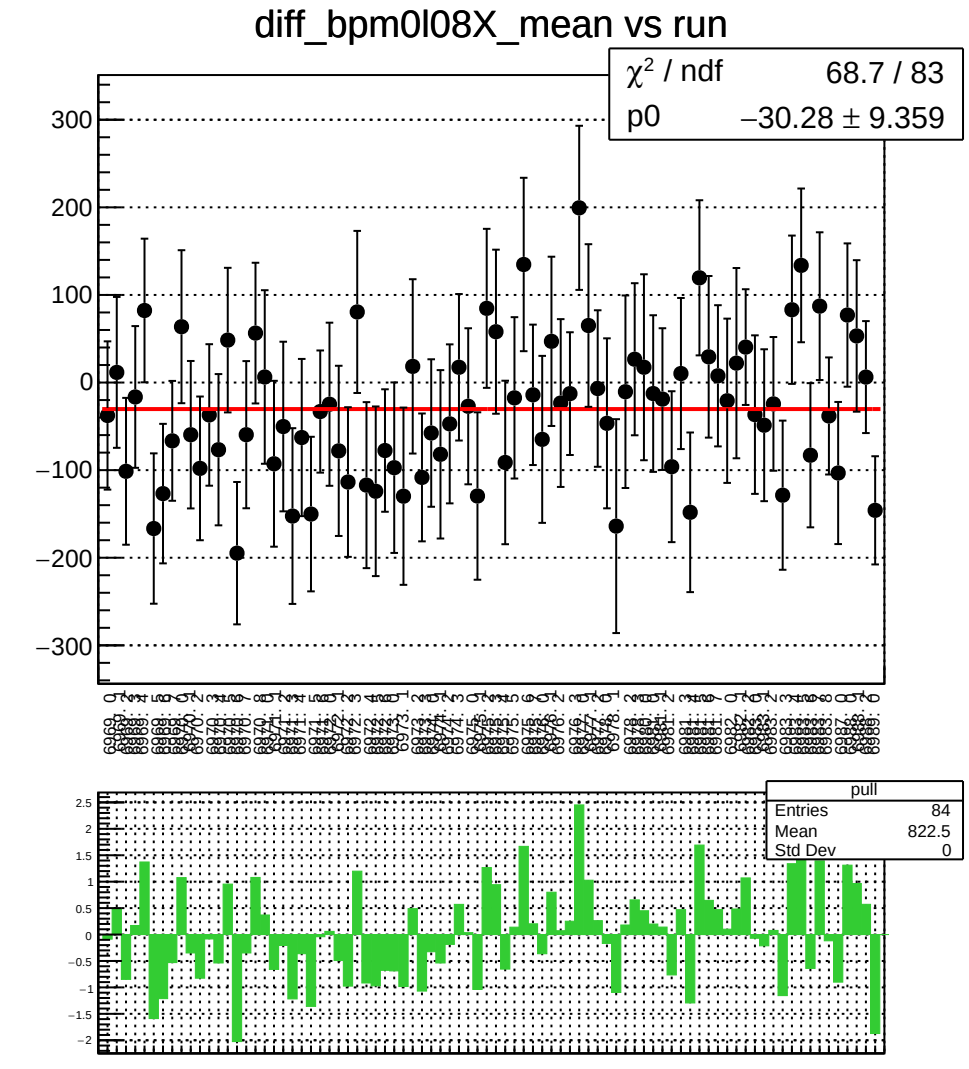

pull1D
Entries 84
Mean 0.00817
Std Dev 0.9049

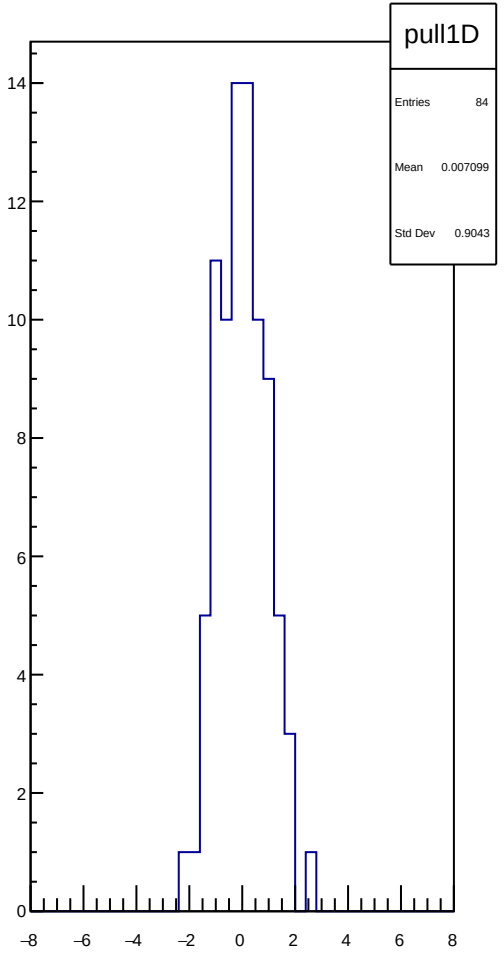

diff_bpm0l07X_rms vs run
χ² / ndf 1.105e+04 / 83
p0 9736 ± 7.551
13000
12000
11000
10000
9000
8000

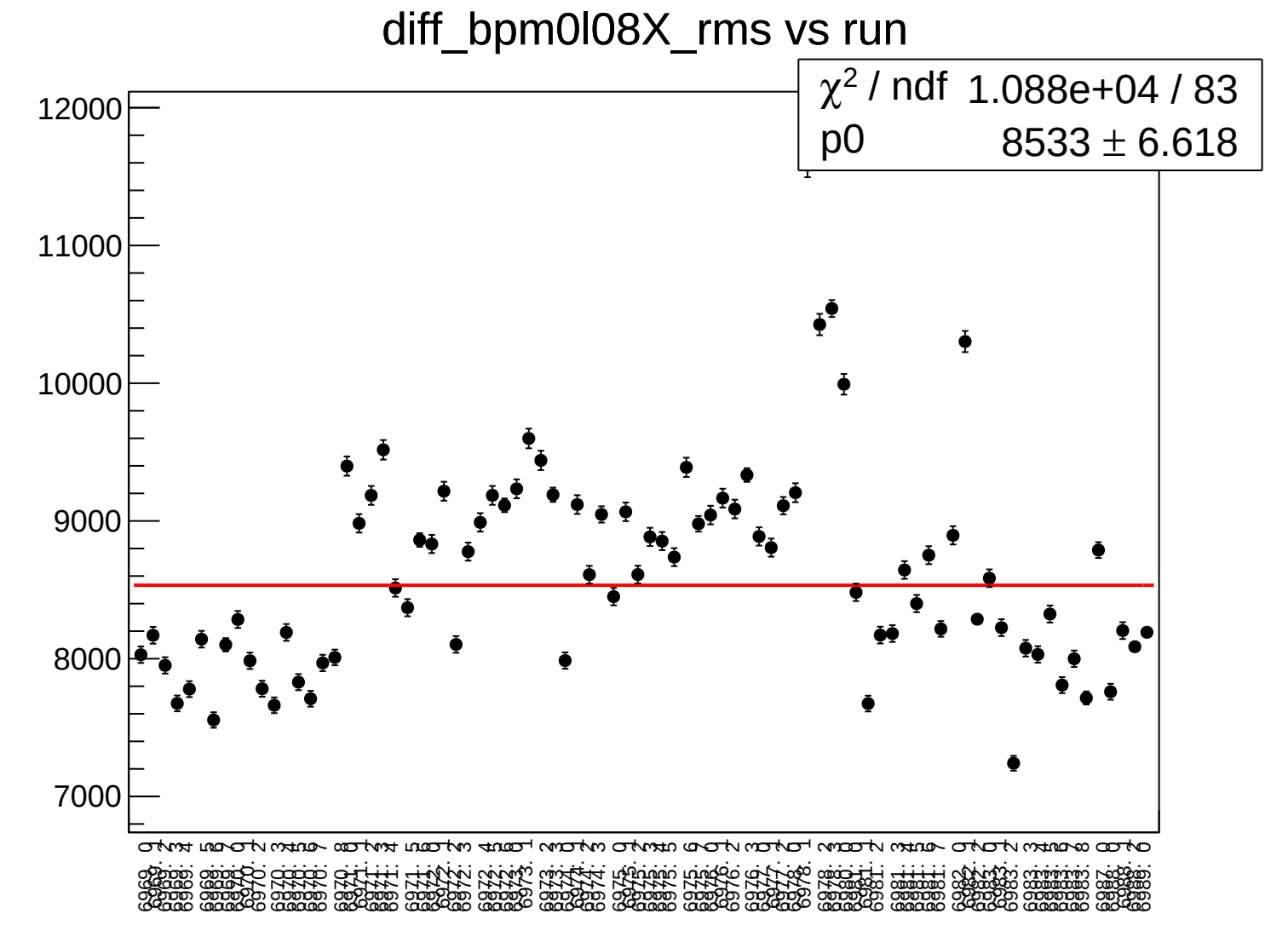

diff_bpm0l07Y_mean vs run
χ² / ndf 71.66 / 83
p0 4.519 ± 1.622
pull
Entries 84
Mean 180.2
Std Dev 0

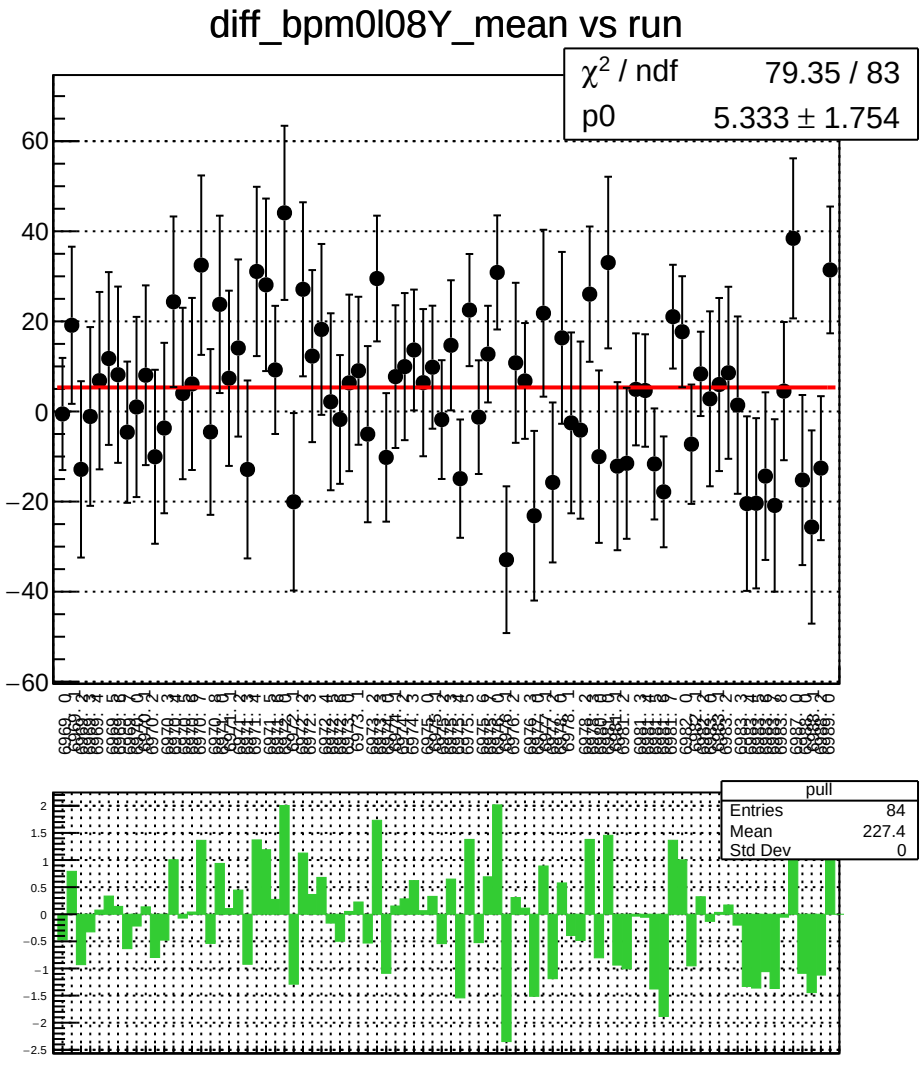

pull1D
Entries 84
Mean −0.02813
Std Dev 0.9232

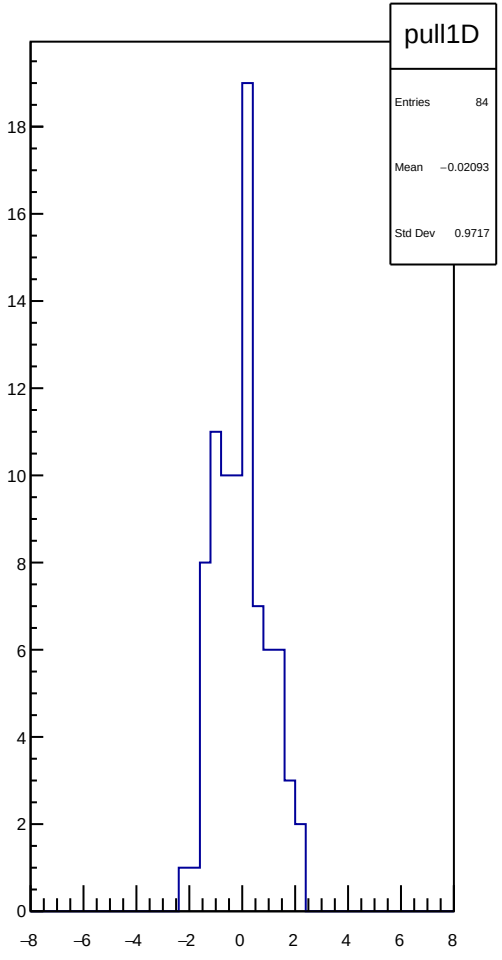

diff_bpm0l07Y_rms vs run
χ² / ndf 7.704e+04 / 83
p0 1450 ± 1.147
2000
1800
1600
1400
1200
1000

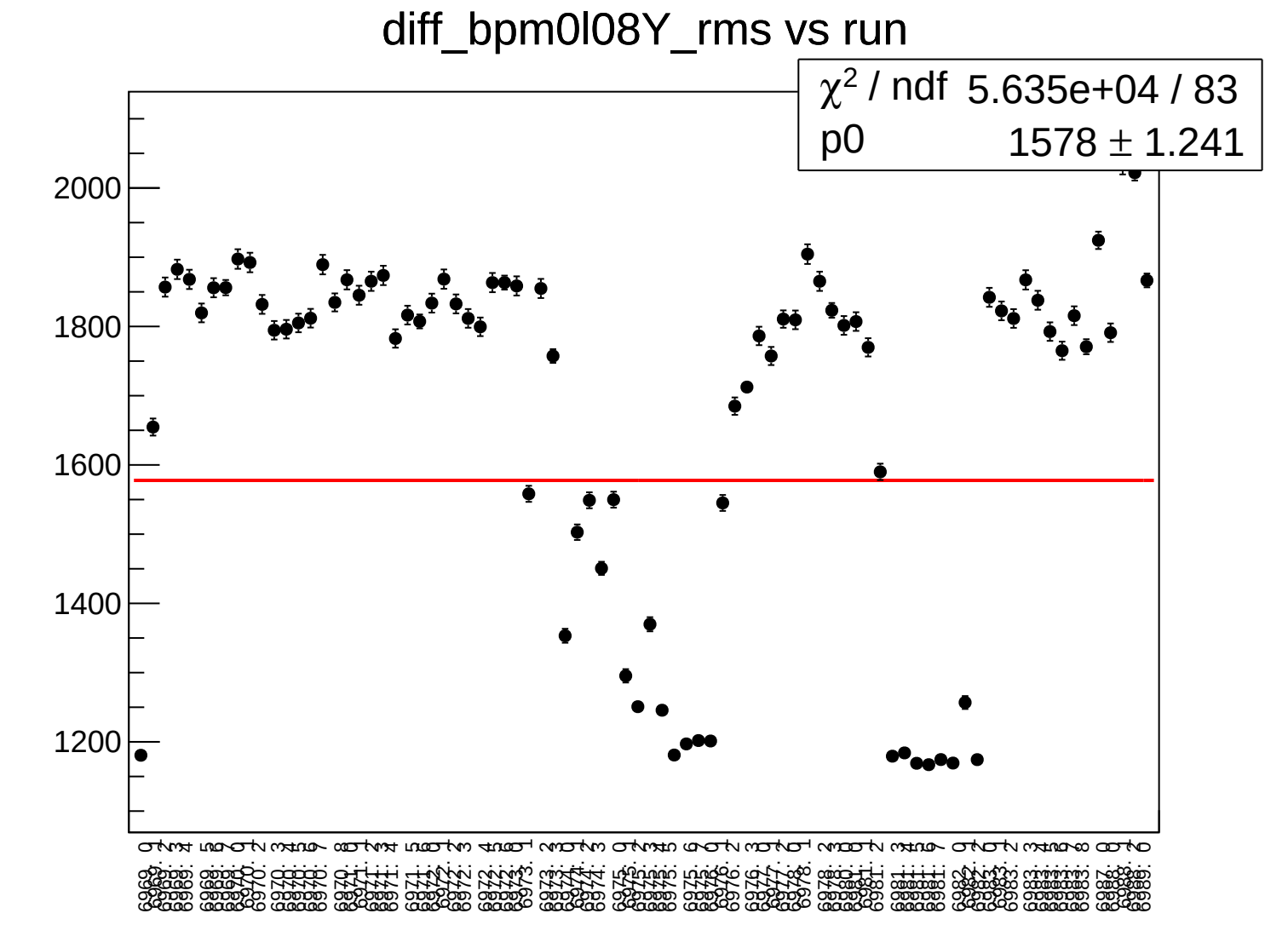

diff_bpm0l08X_mean vs run
χ² / ndf 68.7 / 83
p0 −30.28 ± 9.359
pull
Entries 84
Mean 822.5
Std Dev 0

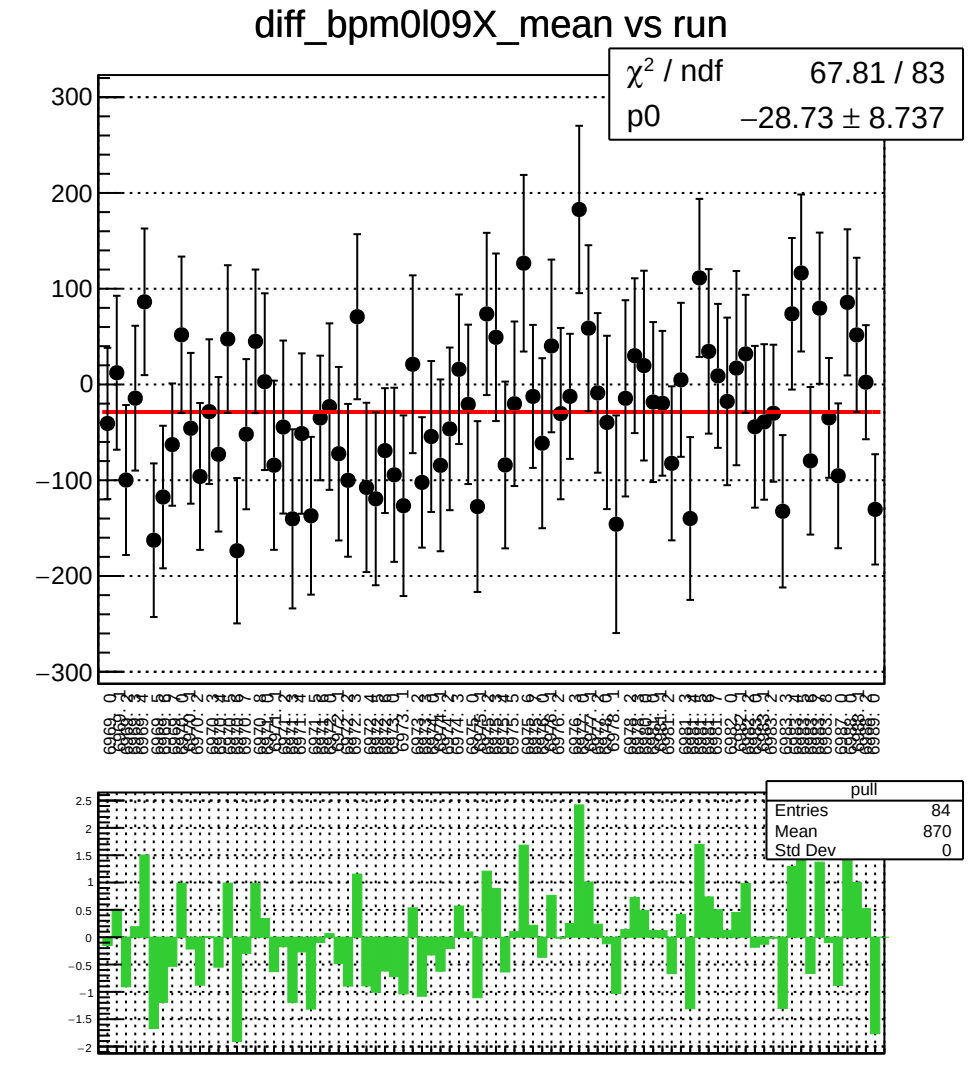

pull1D
Entries 84
Mean 0.007099
Std Dev 0.9043

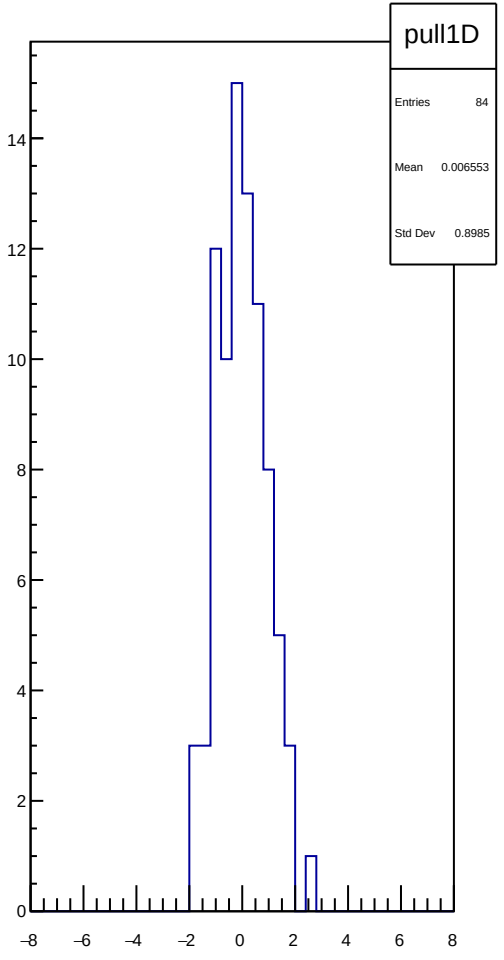

diff_bpm0l08X_rms vs run
χ² / ndf 1.088e+04 / 83
p0 8533 ± 6.618
12000
11000
10000
9000
8000
7000

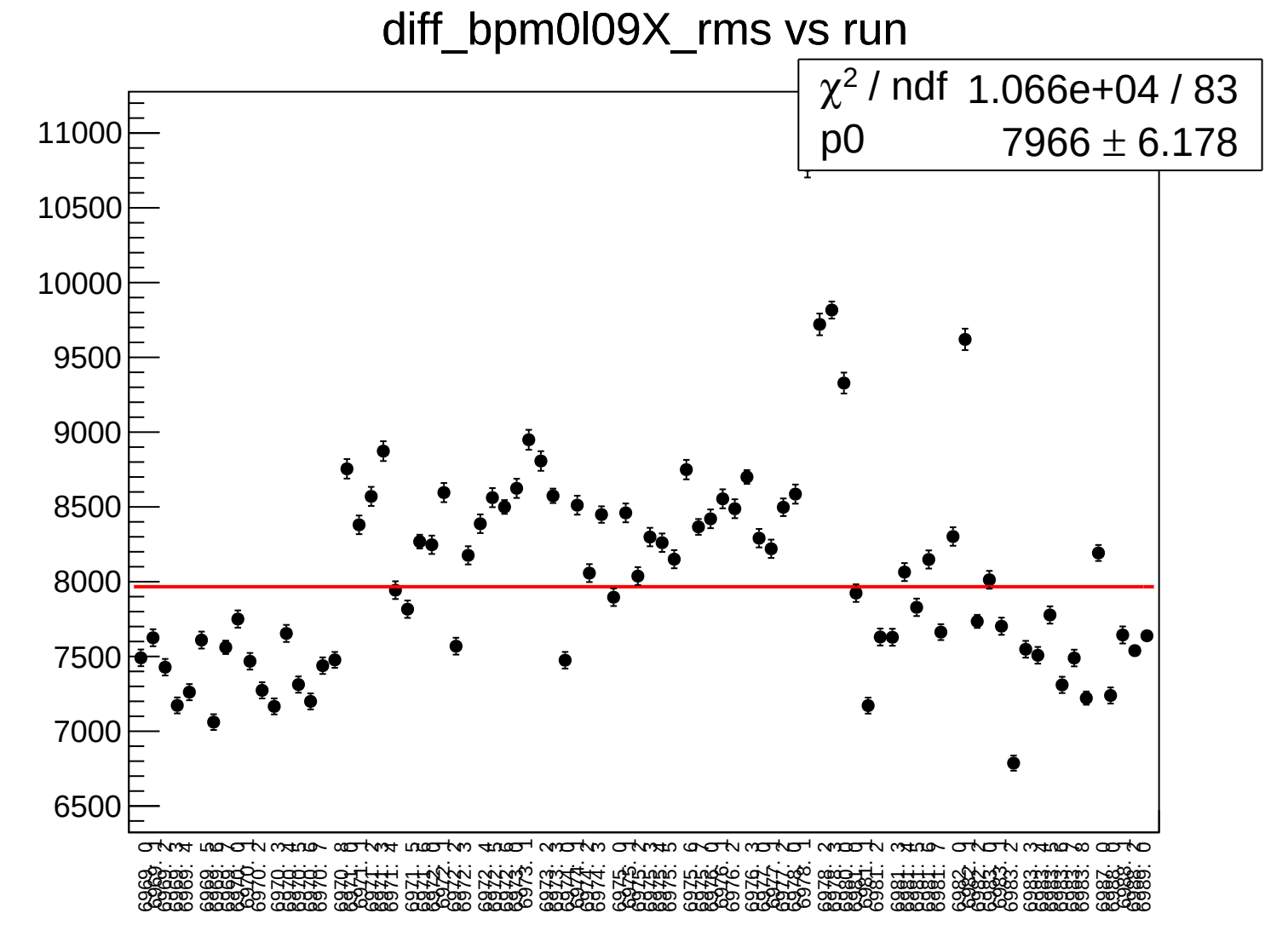

diff_bpm0l08Y_mean vs run
χ² / ndf 79.35 / 83
p0 5.333 ± 1.754
pull
Entries 84
Mean 227.4
Std Dev 0

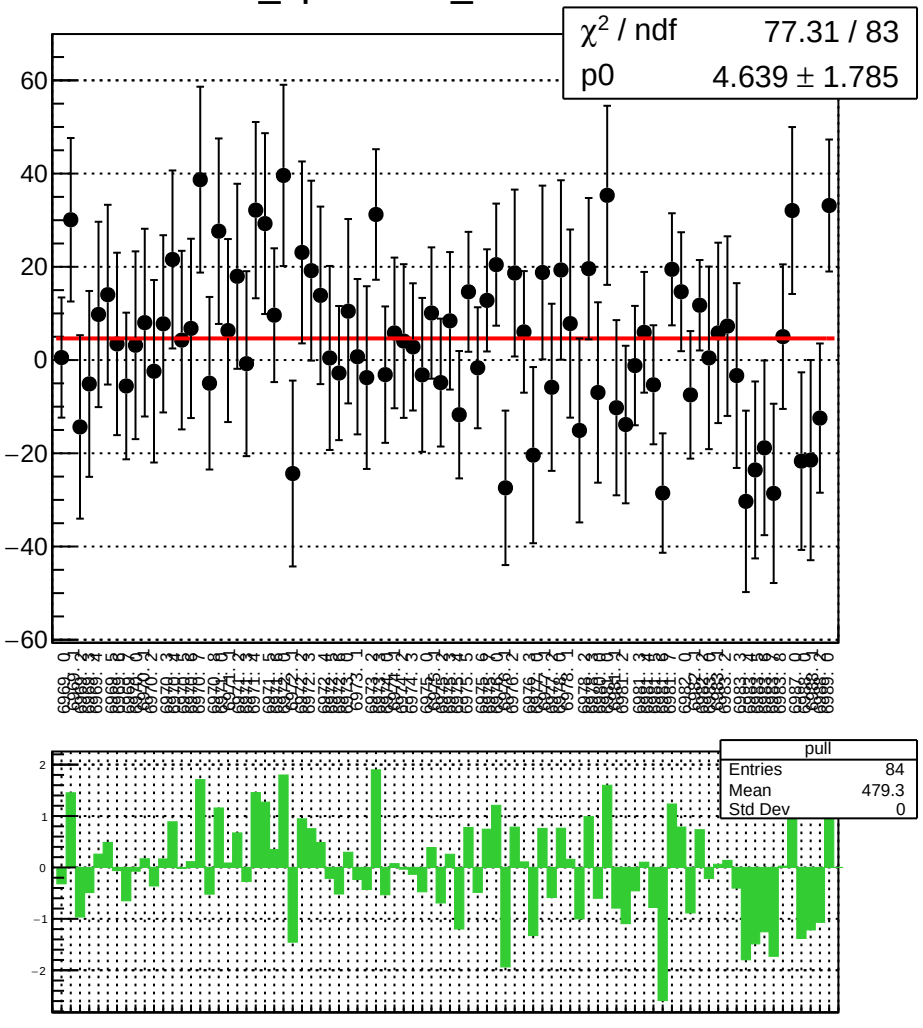

pull1D
Entries 84
Mean −0.02093
Std Dev 0.9717

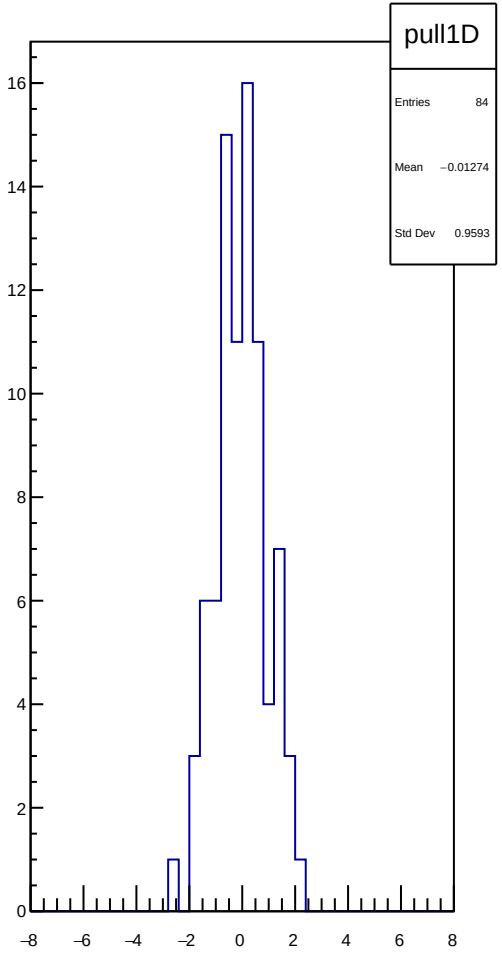

diff_bpm0l08Y_rms vs run
χ² / ndf 5.635e+04 / 83
p0 1578 ± 1.241
2000
1800
1600
1400
1200

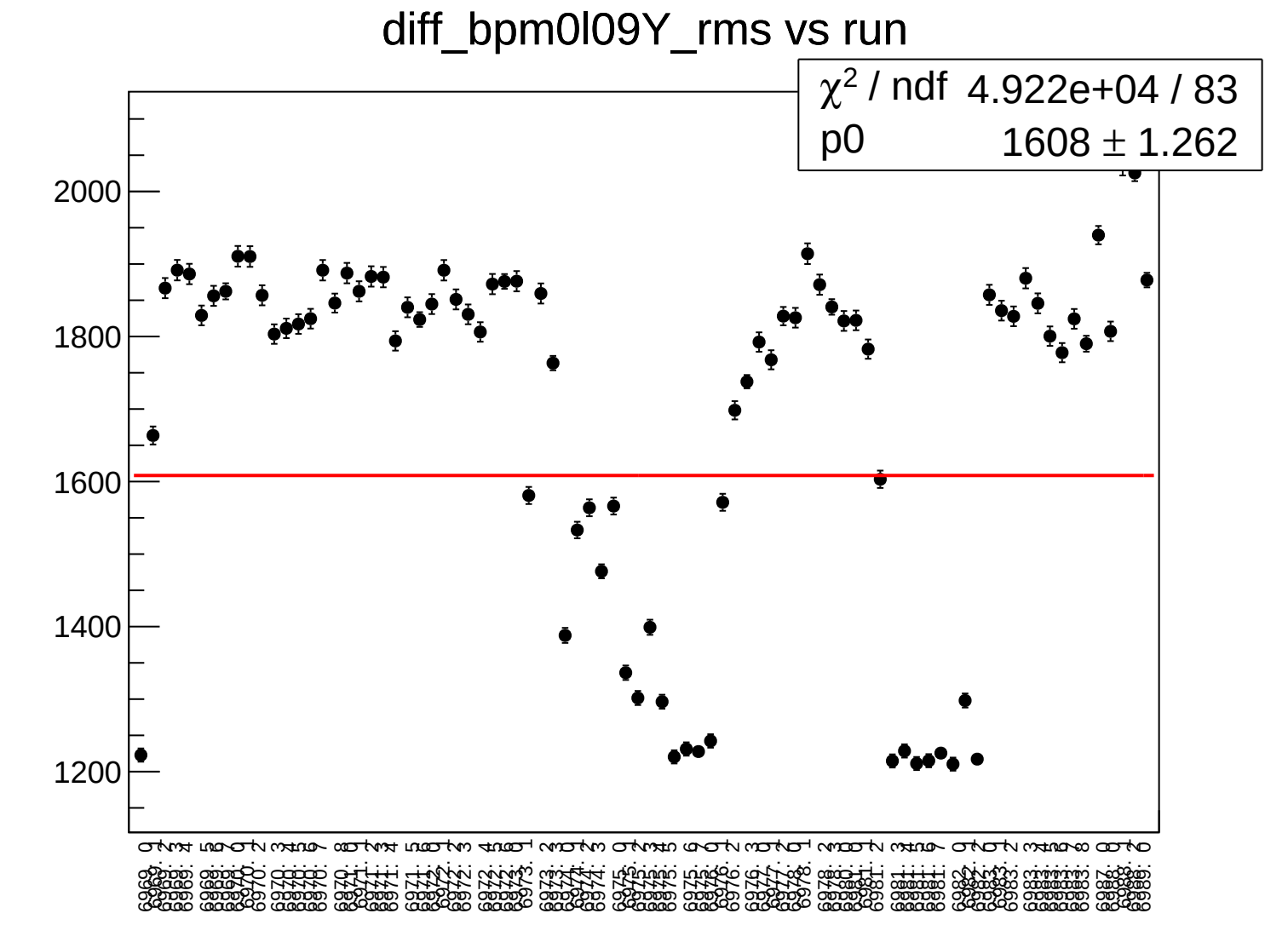

diff_bpm0l09X_mean vs run
χ² / ndf 67.81 / 83
p0 −28.73 ± 8.737
pull
Entries 84
Mean 870
Std Dev 0

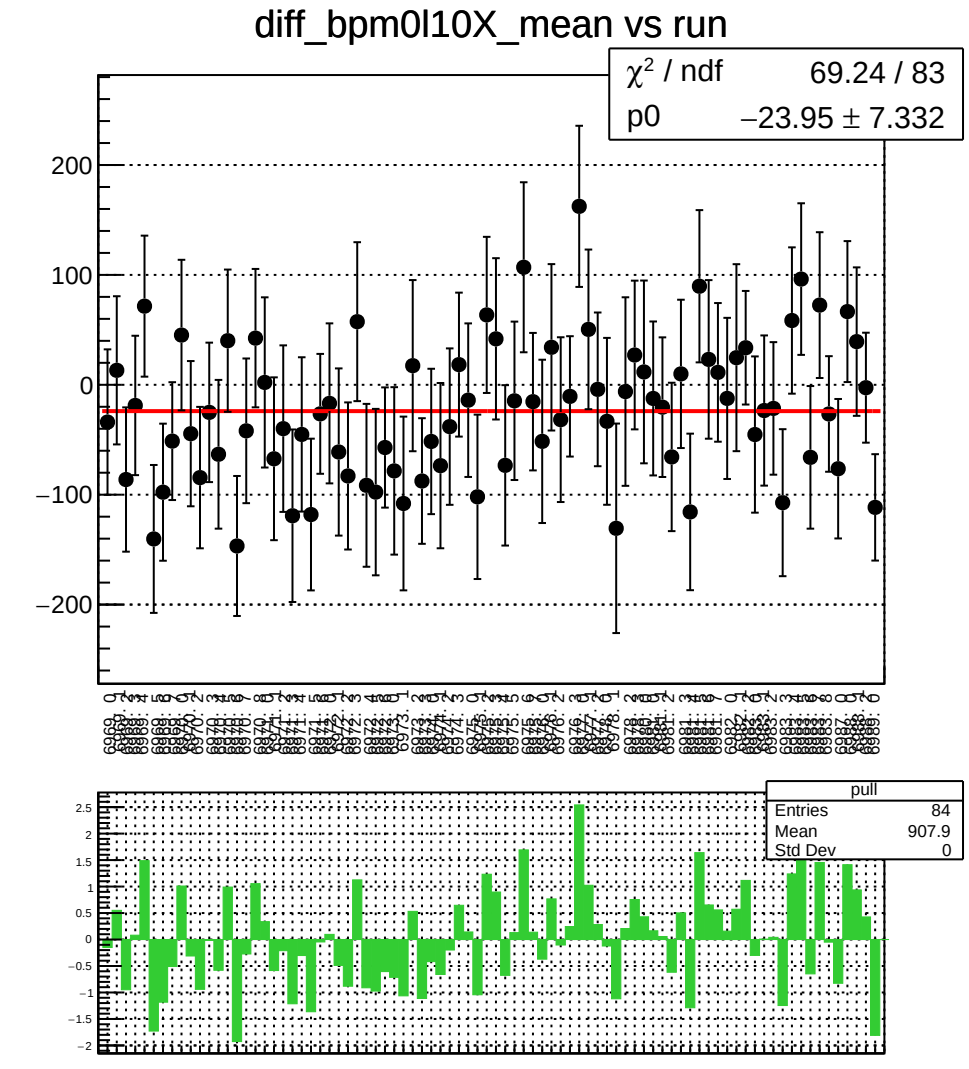

pull1D
Entries 84
Mean 0.006553
Std Dev 0.8985

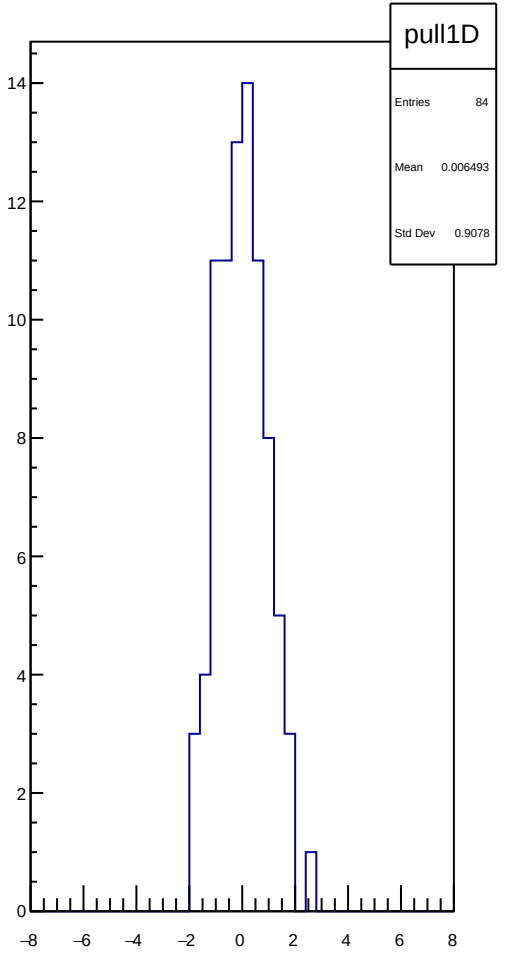

diff_bpm0l09X_rms vs run
χ² / ndf 1.066e+04 / 83
p0 7966 ± 6.178
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

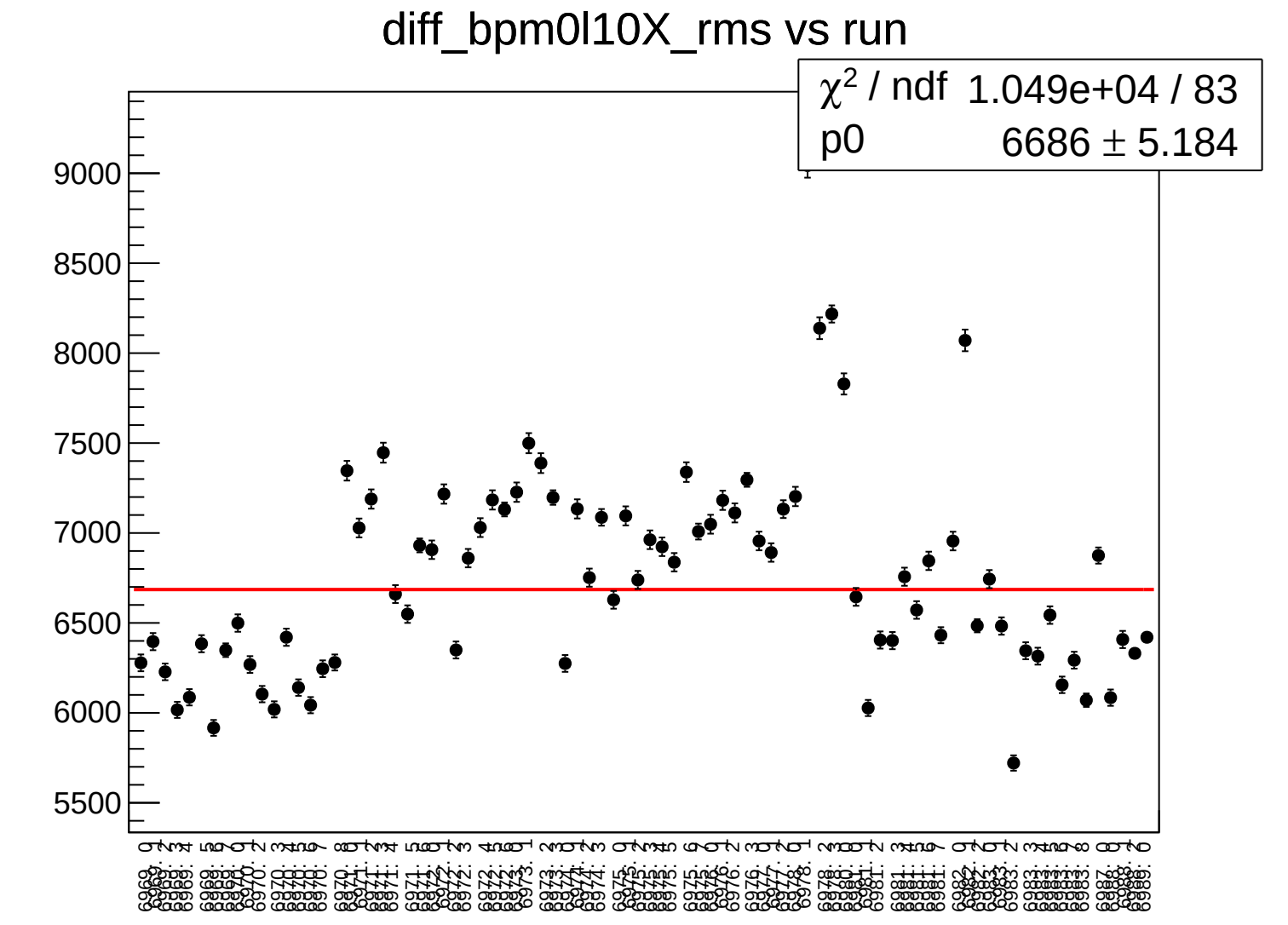

diff_bpm0l09Y_mean vs run
χ² / ndf 77.31 / 83
p0 4.639 ± 1.785
pull
Entries 84
Mean 479.3
Std Dev 0

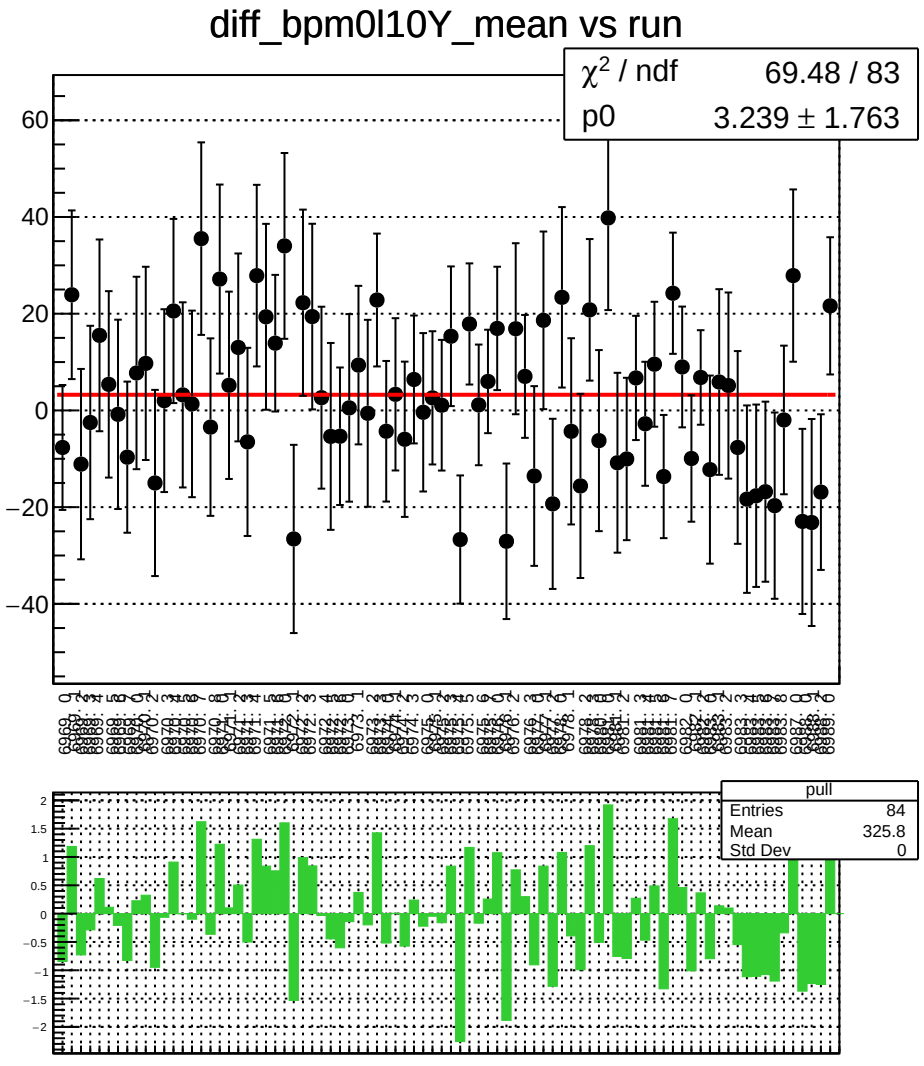

pull1D
Entries 84
Mean −0.01274
Std Dev 0.9593

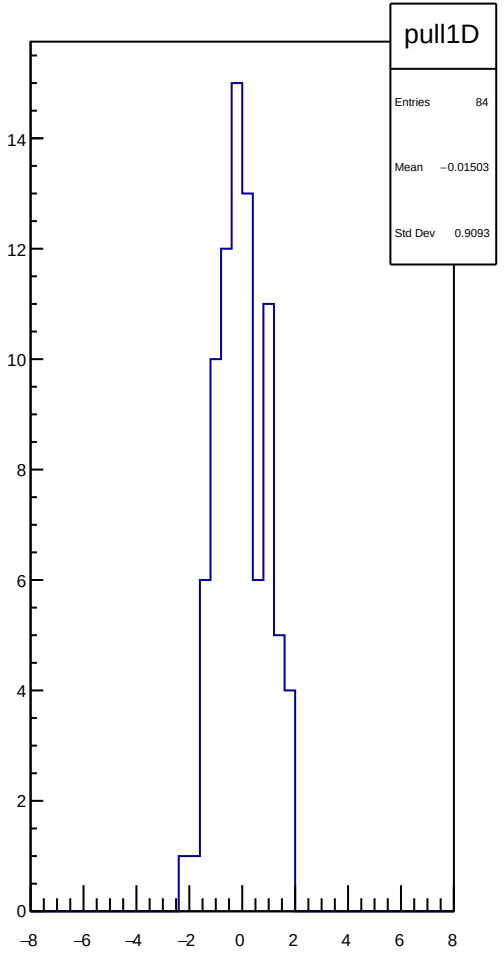

diff_bpm0l09Y_rms vs run
χ² / ndf 4.922e+04 / 83
p0 1608 ± 1.262
2000
1800
1600
1400
1200

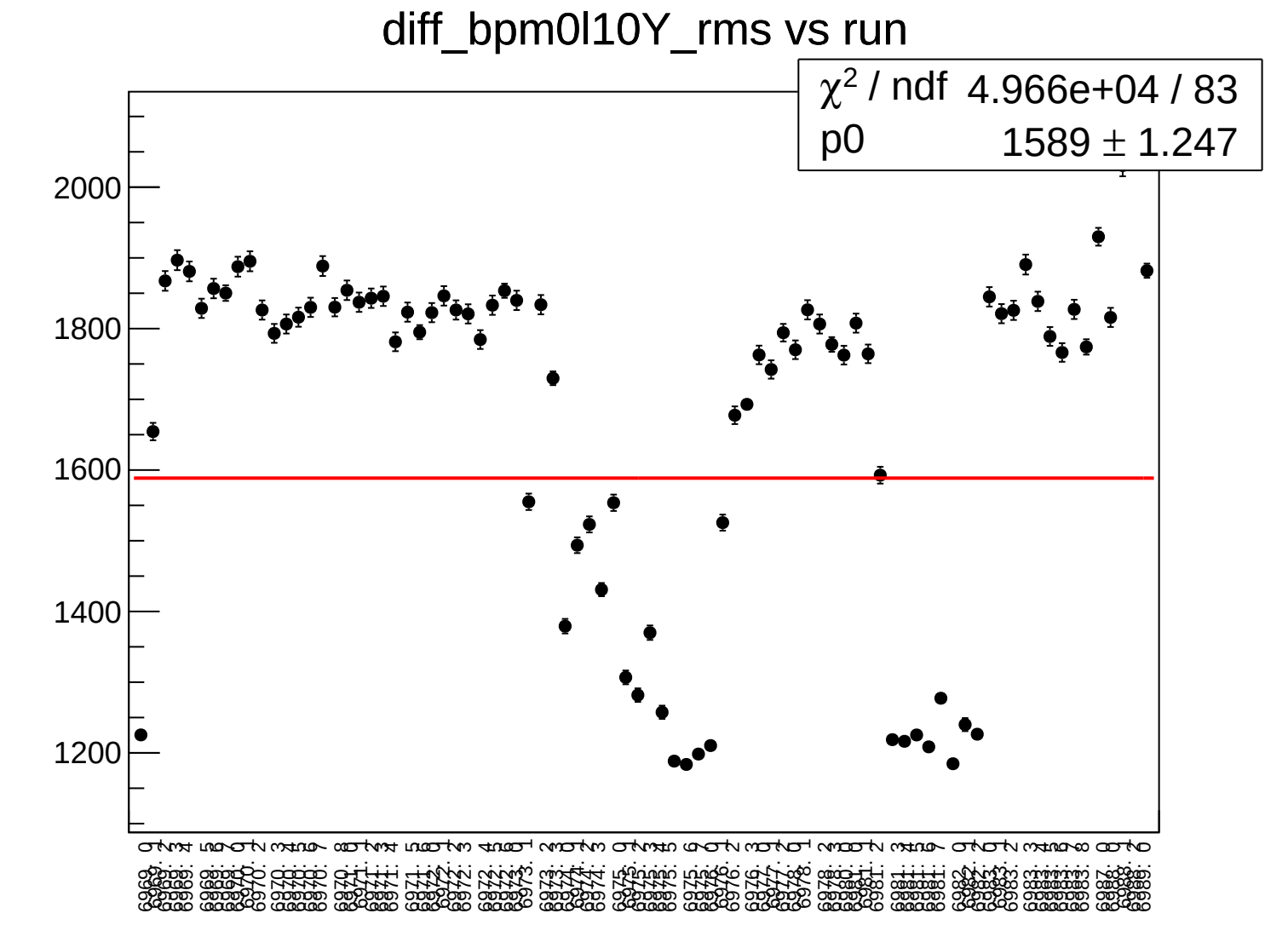

diff_bpm0l10X_mean vs run
χ² / ndf 69.24 / 83
p0 −23.95 ± 7.332
200
100
0
−100
−200
pull
Entries 84
Mean 907.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

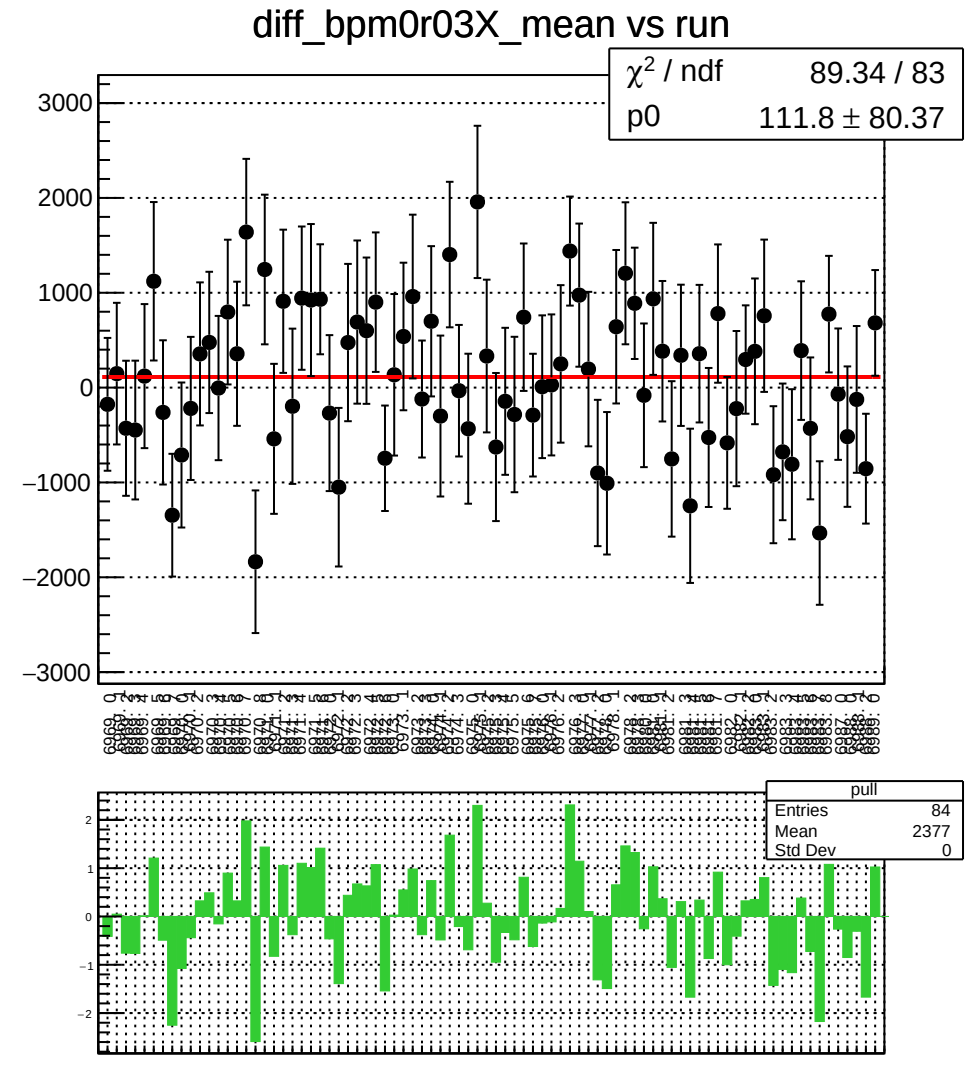

pull1D
Entries 84
Mean 0.006493
Std Dev 0.9078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

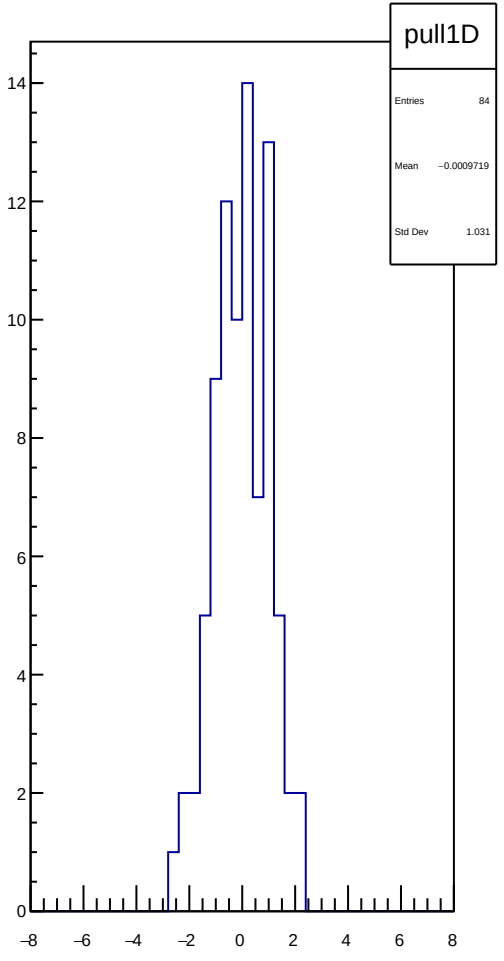

diff_bpm0l10X_rms vs run
χ^2 / ndf 1.049e+04 / 83
p0 6686 ± 5.184
9000
8500
8000
7500
7000
6500
6000
5500

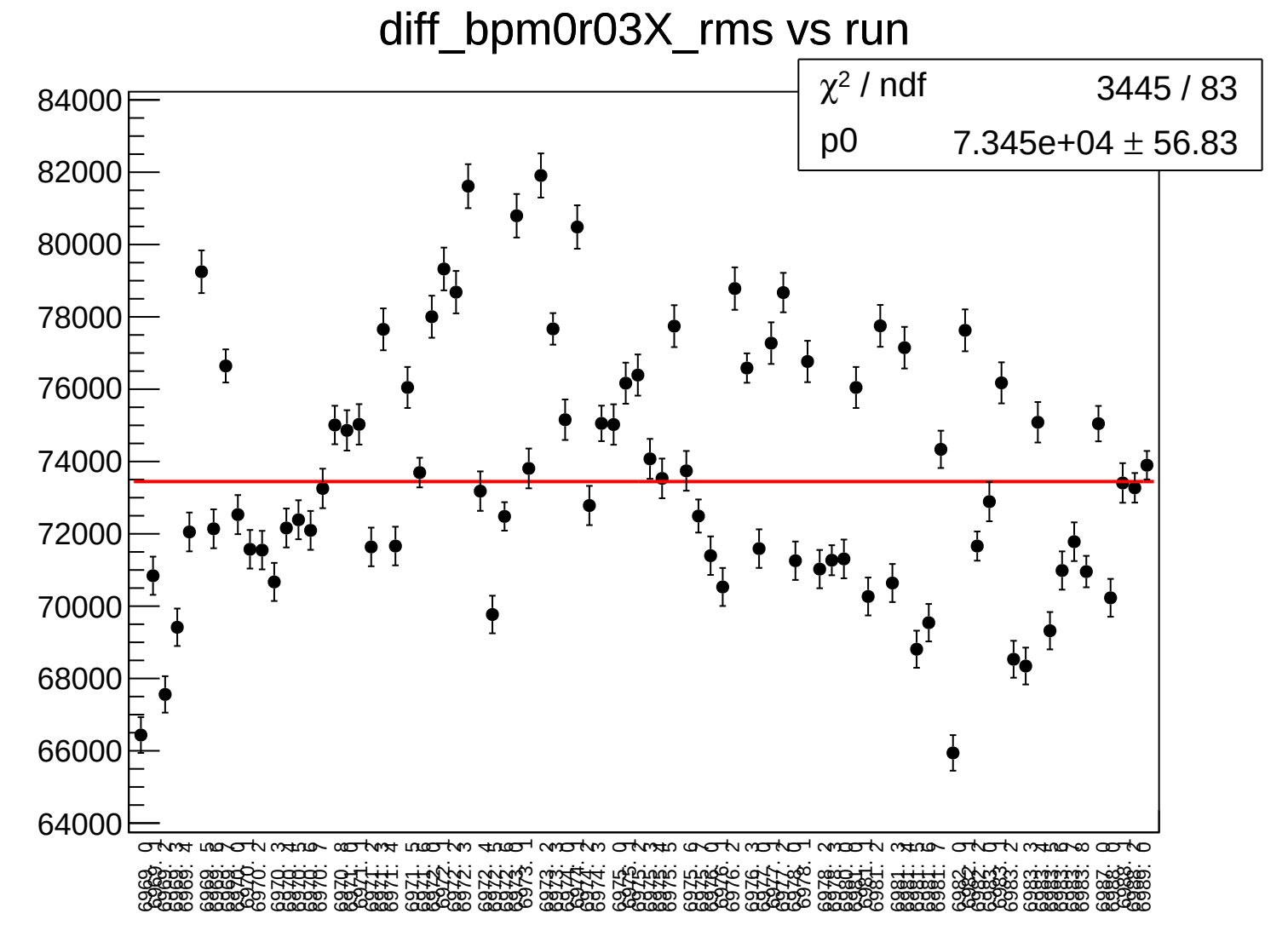

diff_bpm0l10Y_mean vs run
χ² / ndf 69.48 / 83
p0 3.239 ± 1.763
pull
Entries 84
Mean 325.8
Std Dev 0

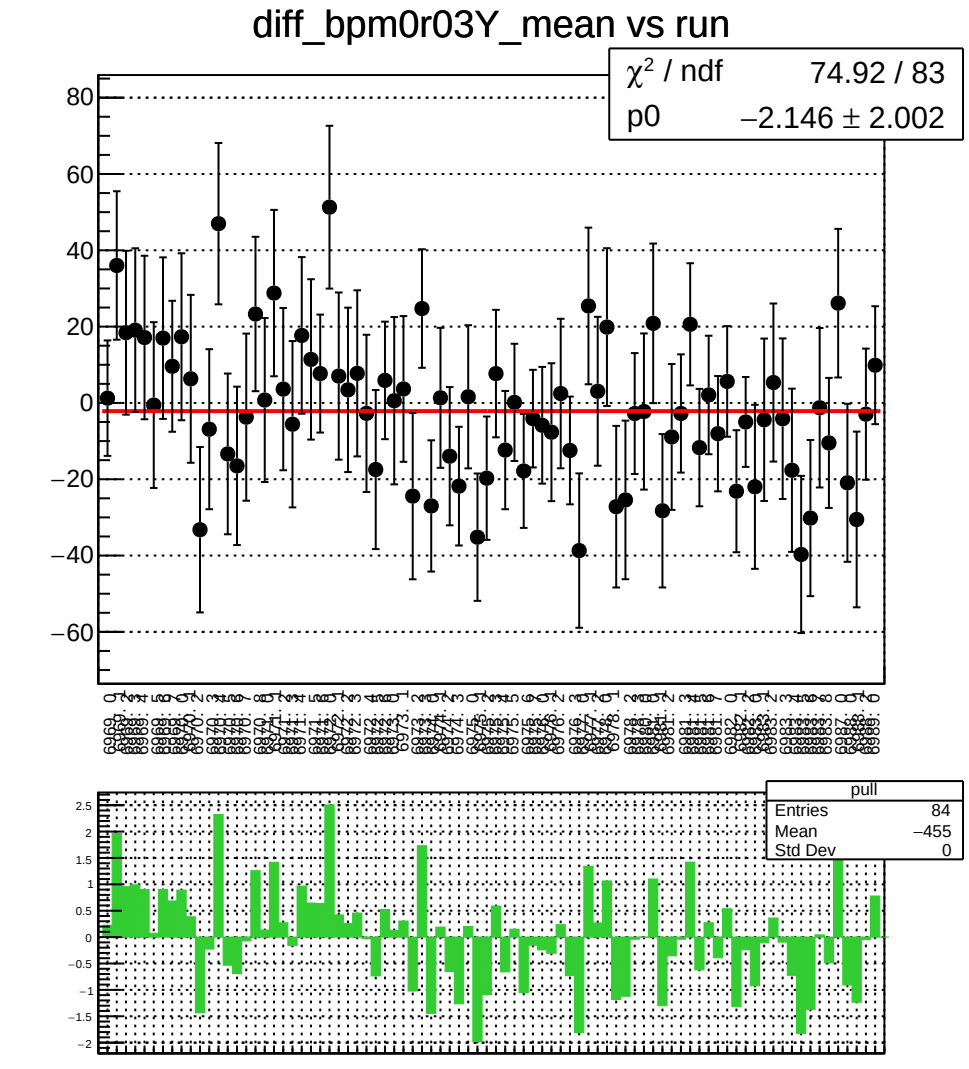

pull1D
Entries 84
Mean −0.01503
Std Dev 0.9093

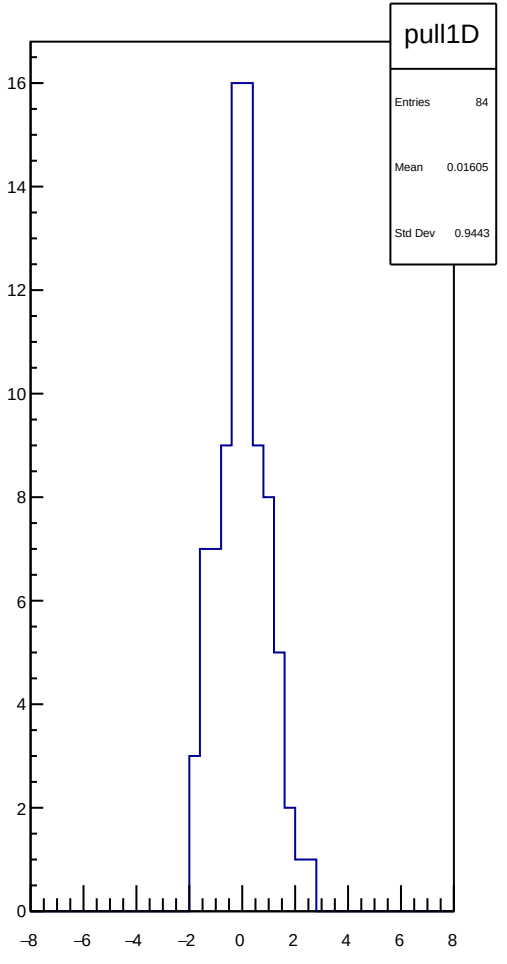

diff_bpm0l10Y_rms vs run
χ² / ndf 4.966e+04 / 83
p0 1589 ± 1.247
2000
1800
1600
1400
1200

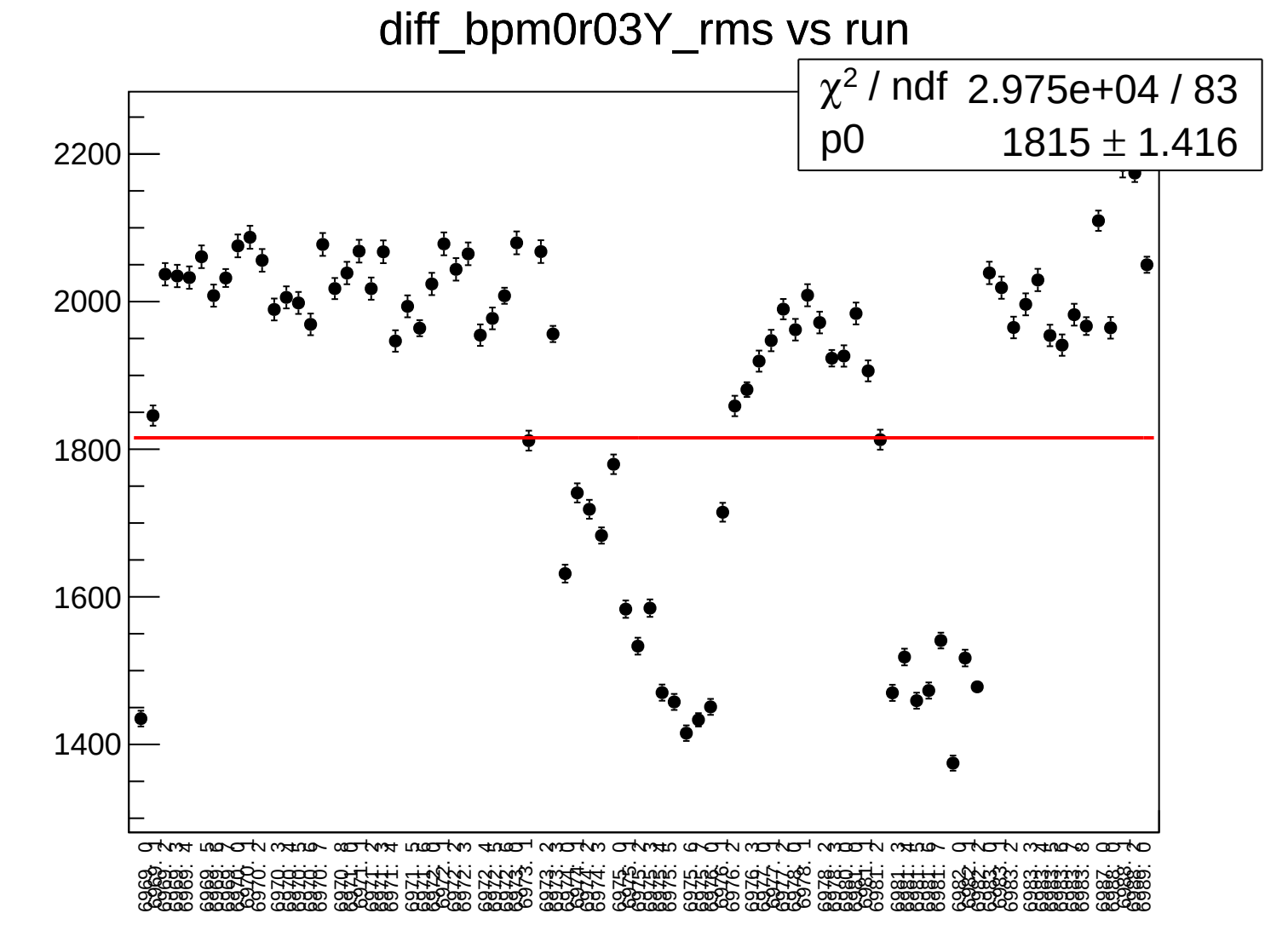

diff_bpm0r03X_mean vs run
χ^2 / ndf 89.34 / 83
p0 111.8 ± 80.37
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 2377
Std Dev 0
2
1
0
−1
−2

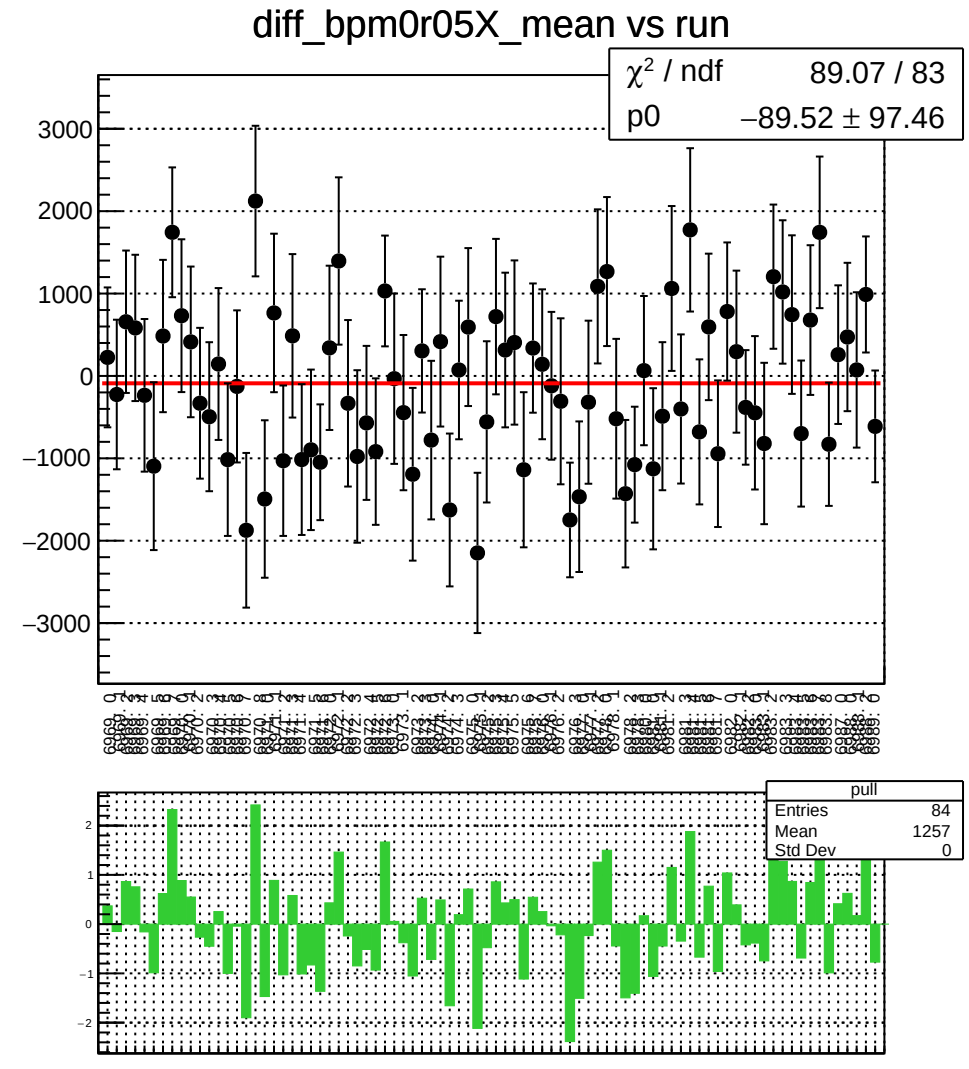

pull1D
Entries 84
Mean −0.0009719
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

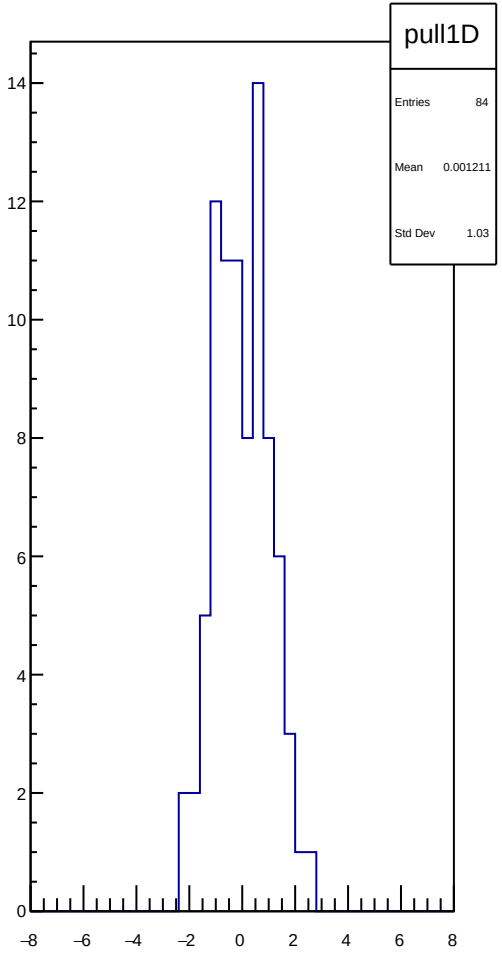

diff_bpm0r03X_rms vs run
χ² / ndf 3445 / 83
p0 7.345e+04 ± 56.83
84000
82000
80000
78000
76000
74000
72000
70000
68000
66000
64000

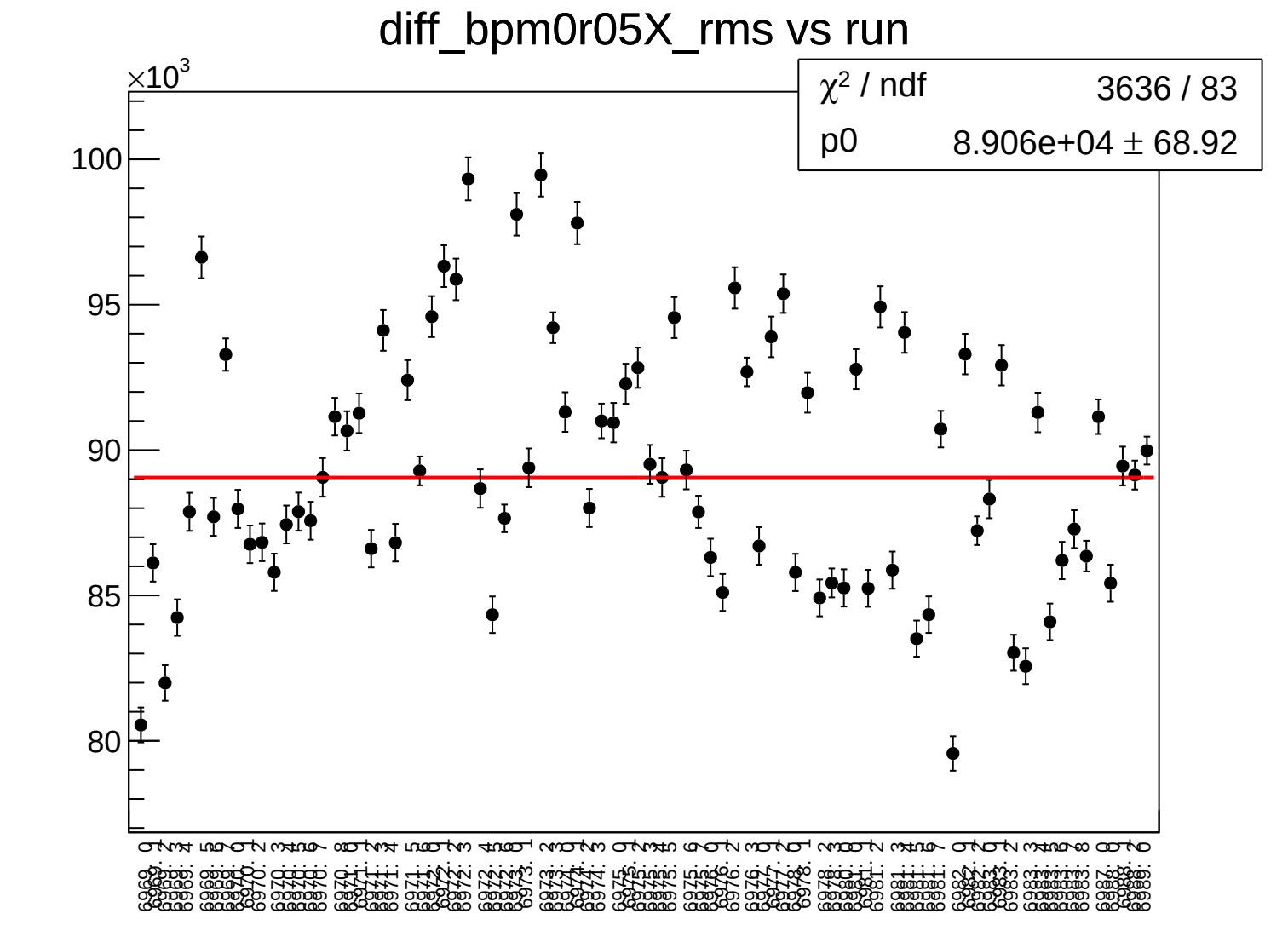

diff_bpm0r03Y_mean vs run
χ² / ndf 74.92 / 83
p0 −2.146 ± 2.002
pull
Entries 84
Mean −455
Std Dev 0

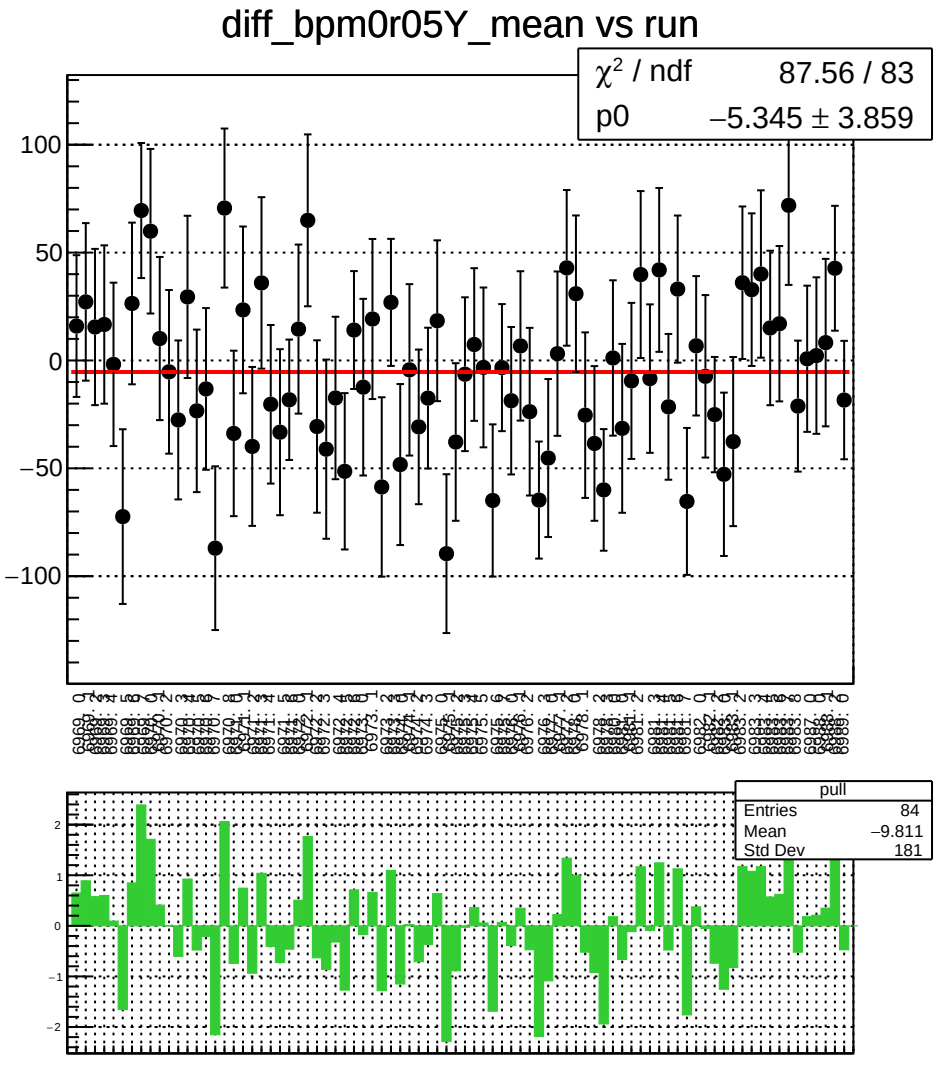

pull1D
Entries 84
Mean 0.01605
Std Dev 0.9443

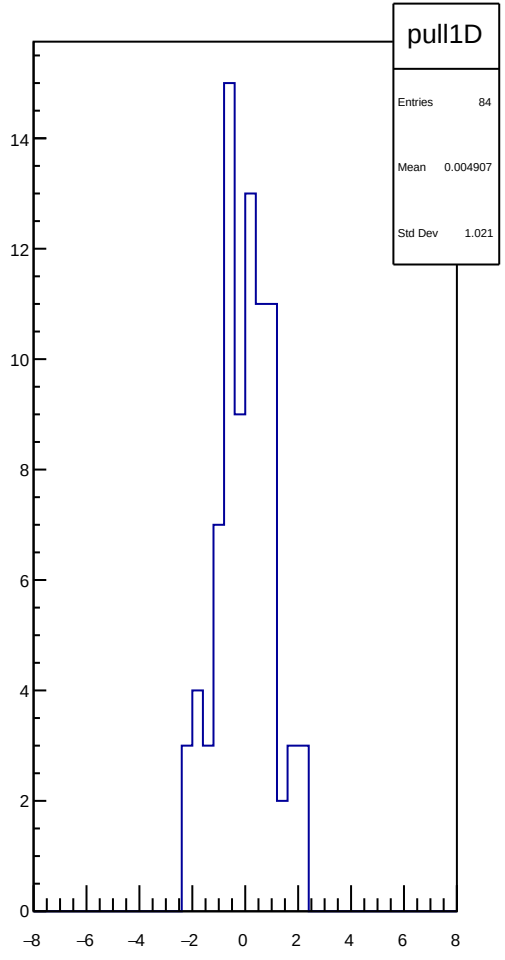

diff_bpm0r03Y_rms vs run
χ² / ndf 2.975e+04 / 83
p0 1815 ± 1.416
2200
2000
1800
1600
1400

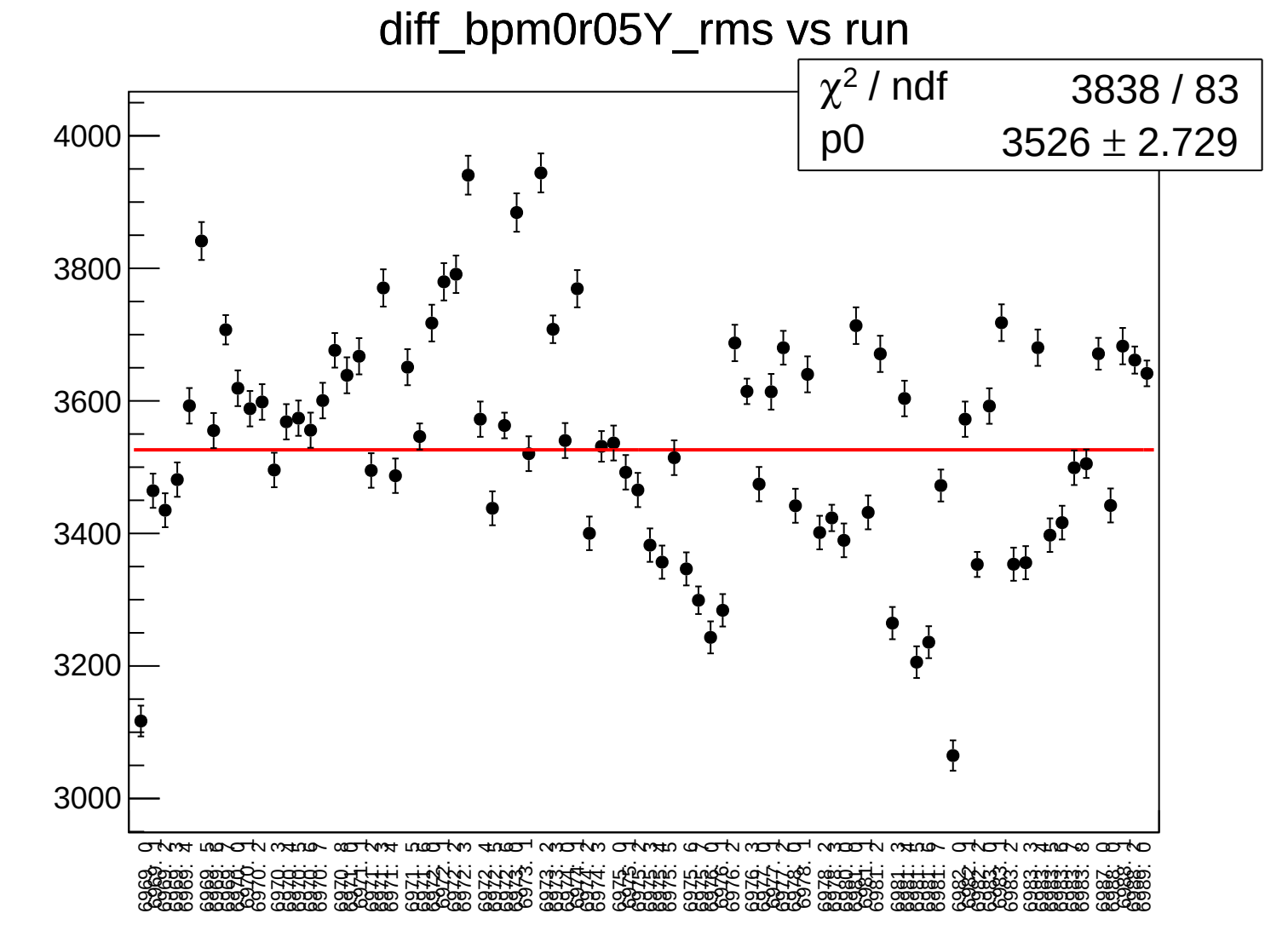

diff_bpm0r05X_mean vs run
χ² / ndf 89.07 / 83
p0 −89.52 ± 97.46
pull
Entries 84
Mean 1257
Std Dev 0

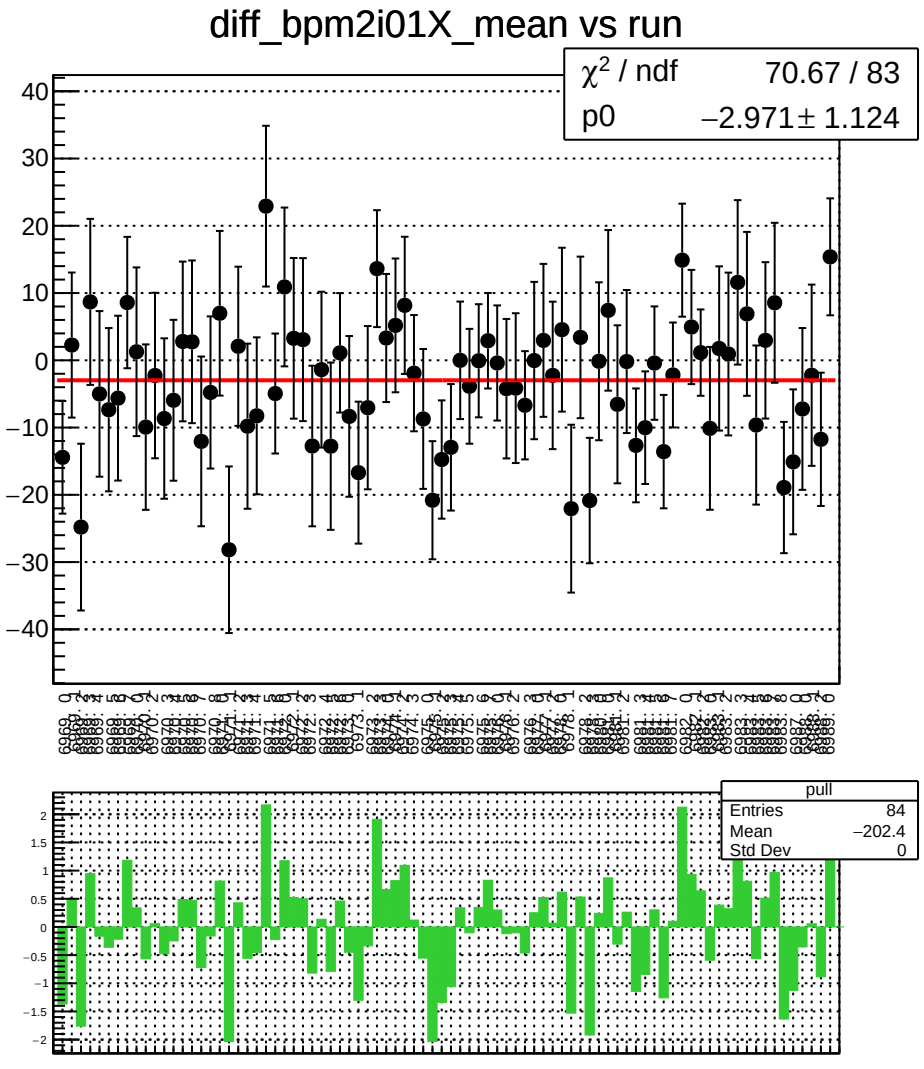

pull1D
Entries 84
Mean 0.001211
Std Dev 1.03

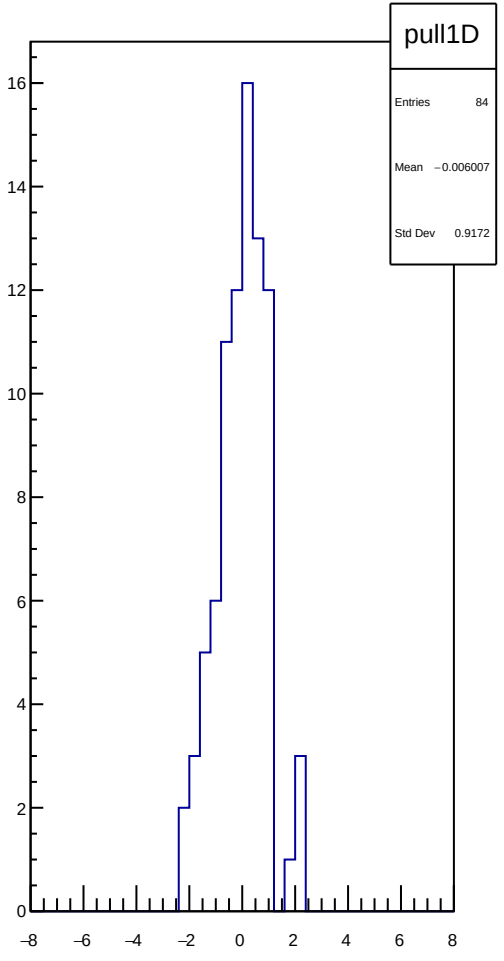

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 3636 / 83
p0 8.906e+04 ± 68.92
100
95
90
85
80

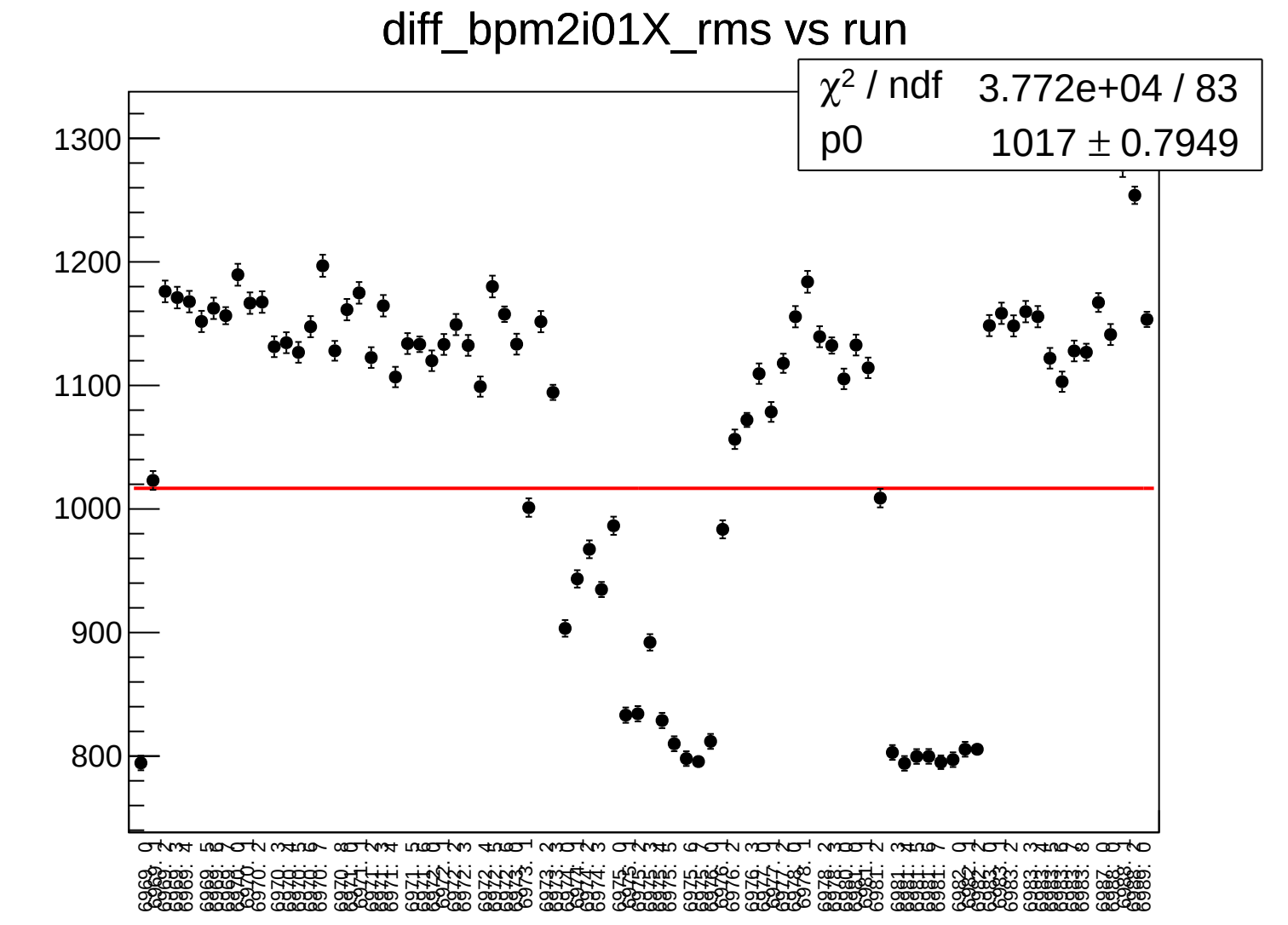

diff_bpm0r05Y_mean vs run
χ² / ndf 87.56 / 83
p0 −5.345 ± 3.859
100
50
0
−50
−100
pull
Entries 84
Mean −9.811
Std Dev 181
2
1
0
−1
−2

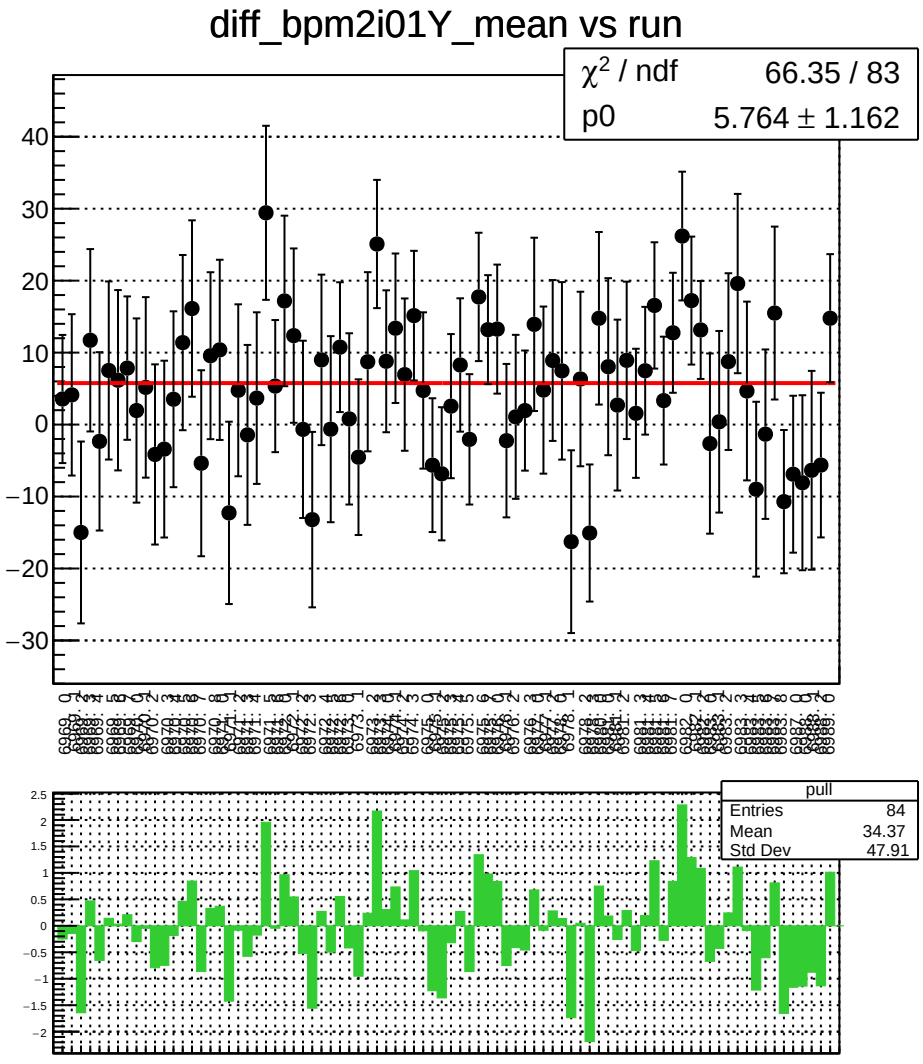

pull1D
Entries 84
Mean 0.004907
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

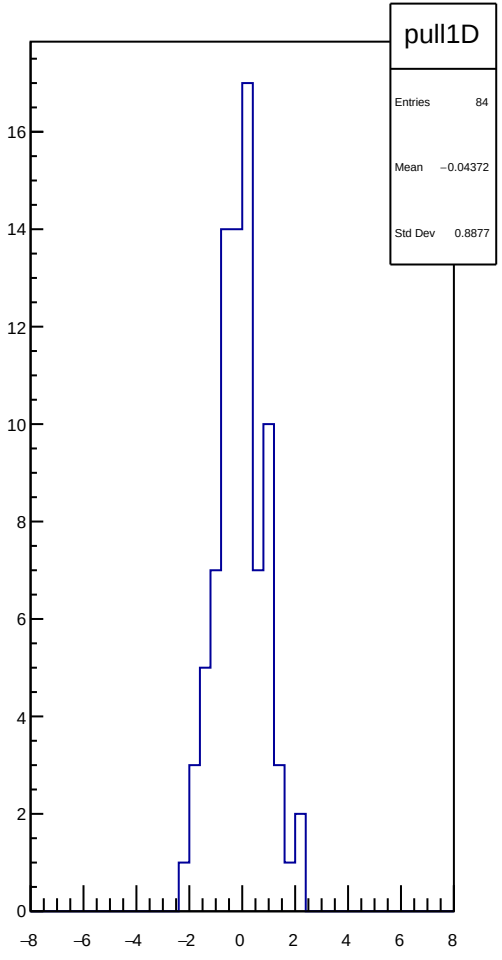

diff_bpm0r05Y_rms vs run
χ² / ndf 3838 / 83
p0 3526 ± 2.729
4000
3800
3600
3400
3200
3000

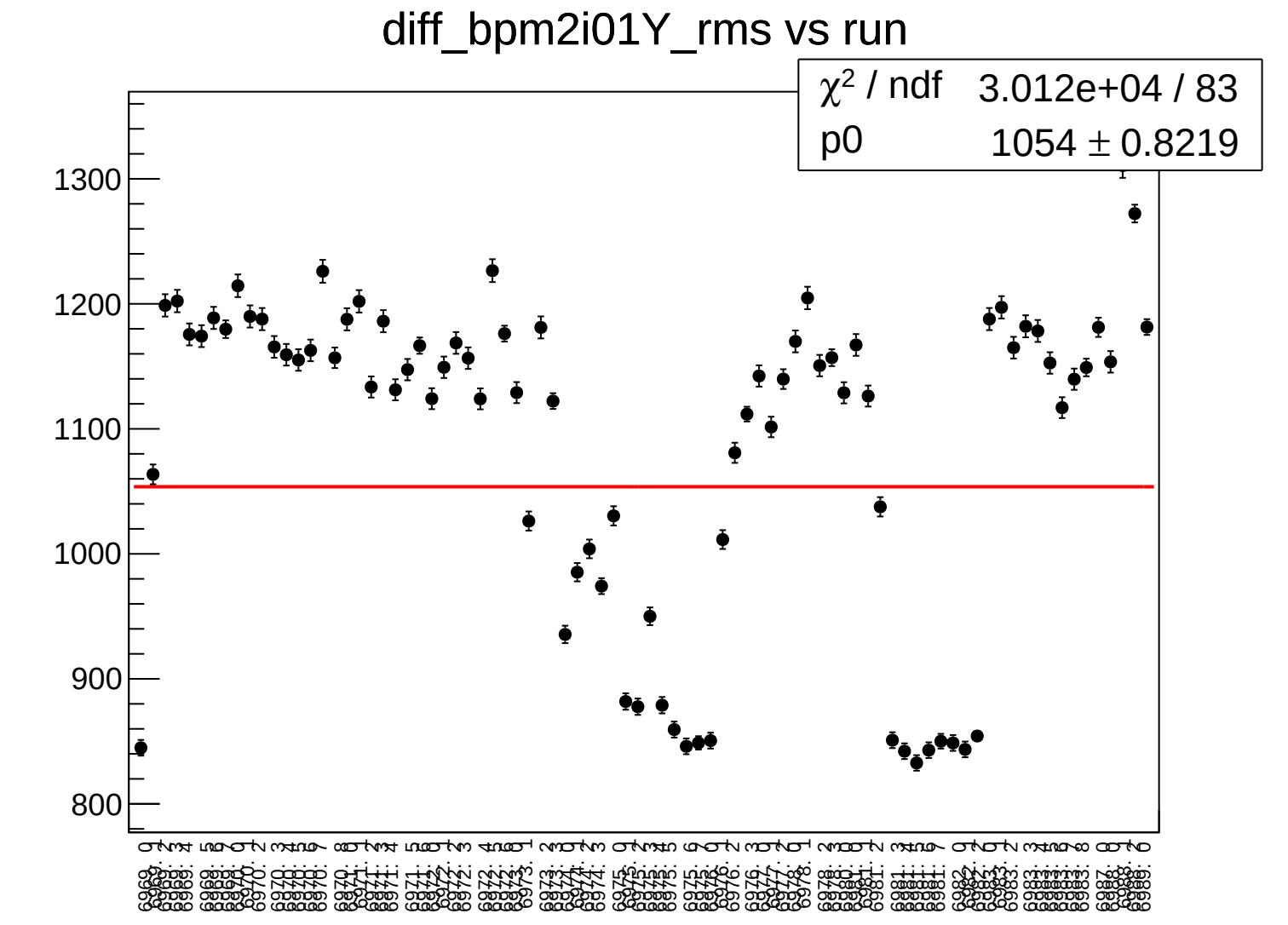

diff_bpm2i01X_mean vs run
χ² / ndf 70.67 / 83
p0 −2.971± 1.124
pull
Entries 84
Mean −202.4
Std Dev 0

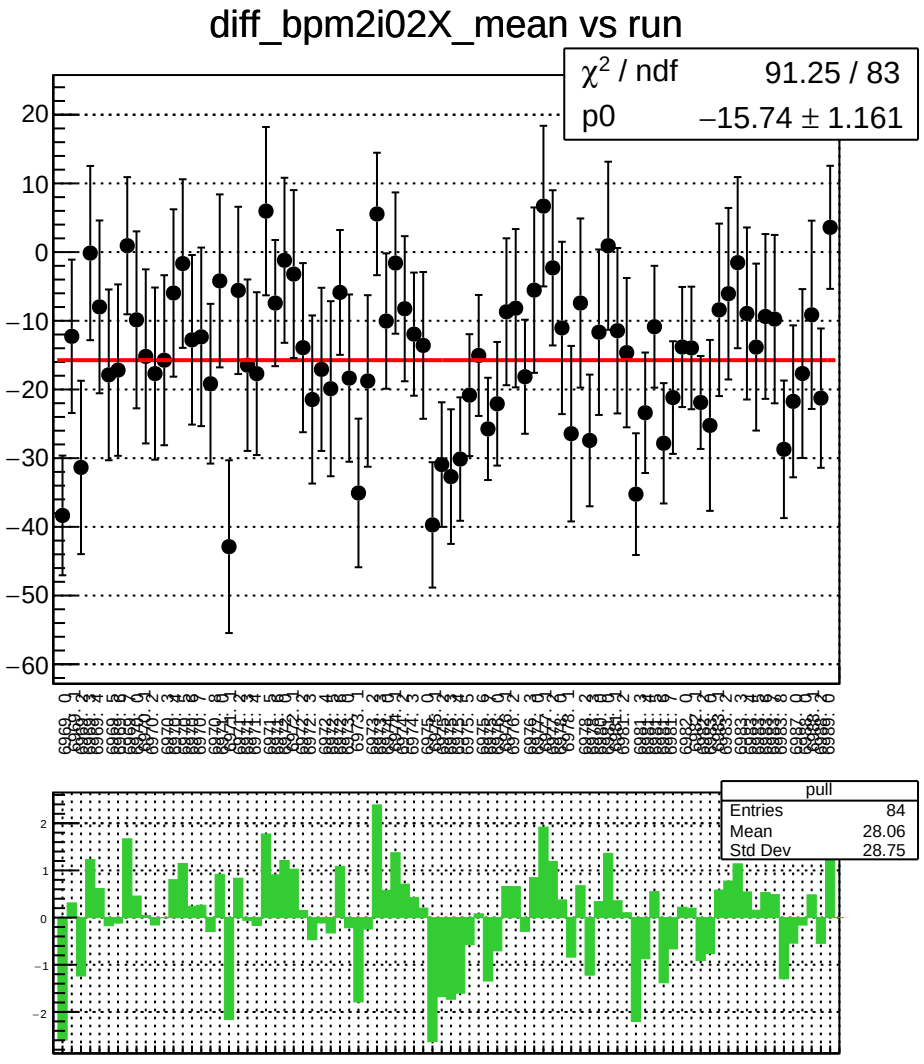

pull1D
Entries 84
Mean −0.006007
Std Dev 0.9172

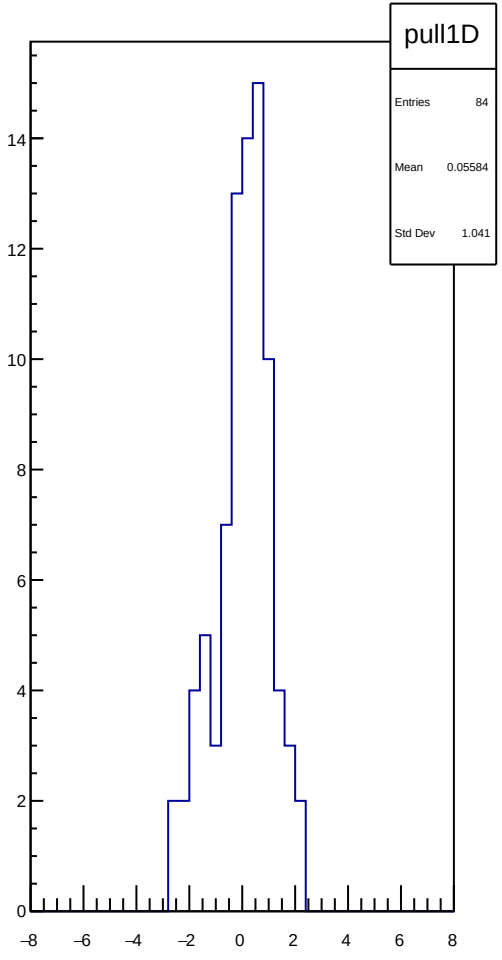

diff_bpm2i01X_rms vs run
χ² / ndf 3.772e+04 / 83
p0 1017 ± 0.7949
1300
1200
1100
1000
900
800

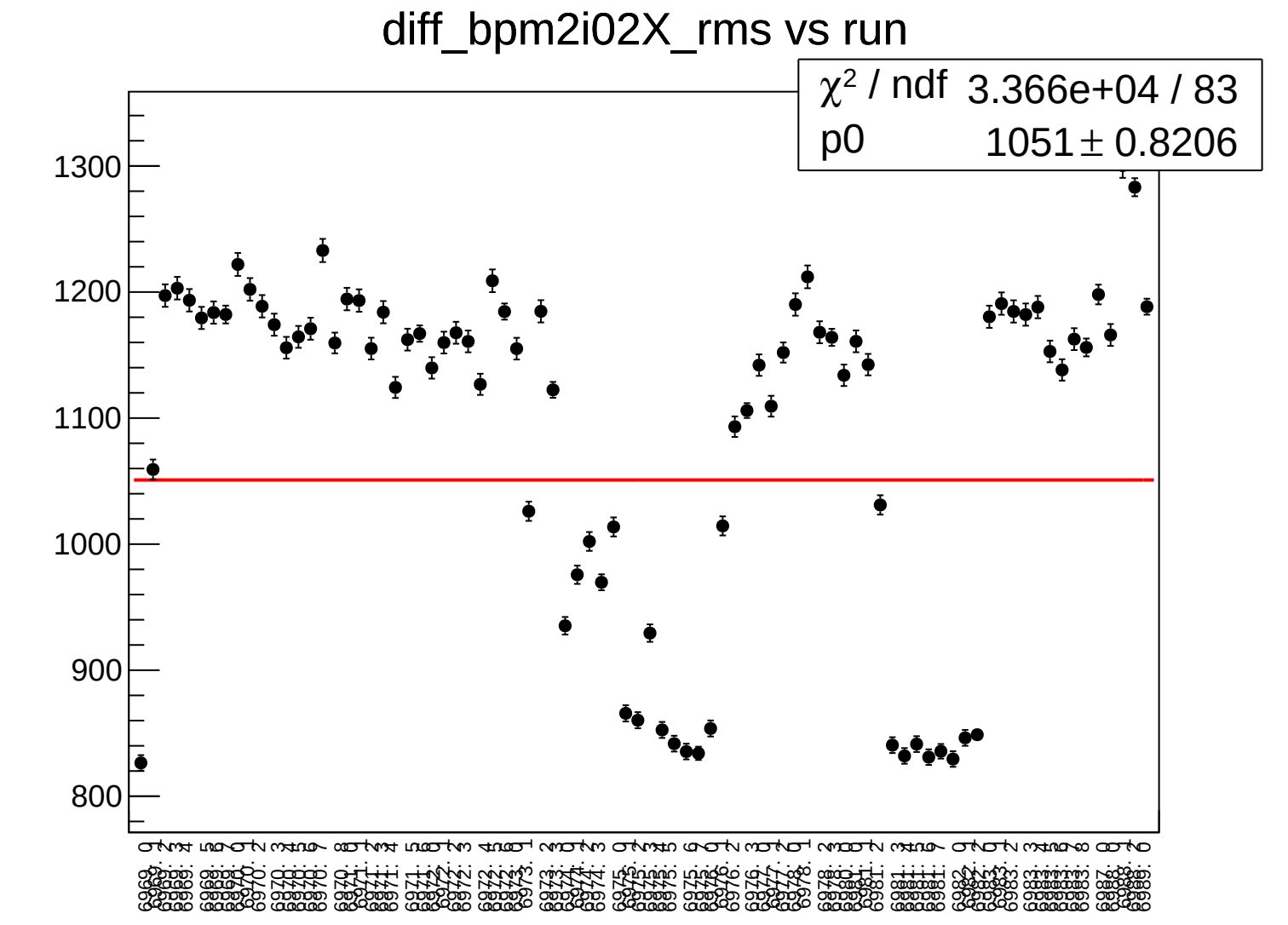

diff_bpm2i01Y_mean vs run
χ² / ndf 66.35 / 83
p0 5.764 ± 1.162
pull
Entries 84
Mean 34.37
Std Dev 47.91

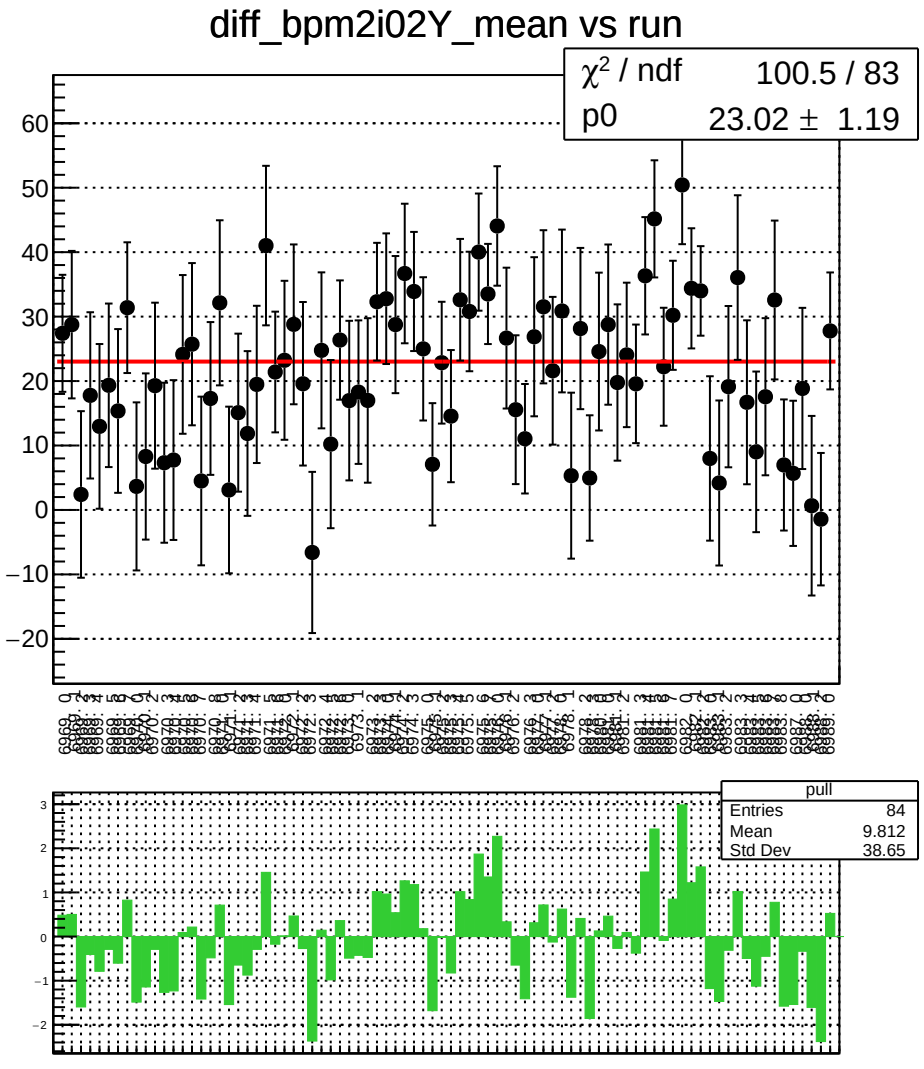

pull1D
Entries 84
Mean −0.04372
Std Dev 0.8877

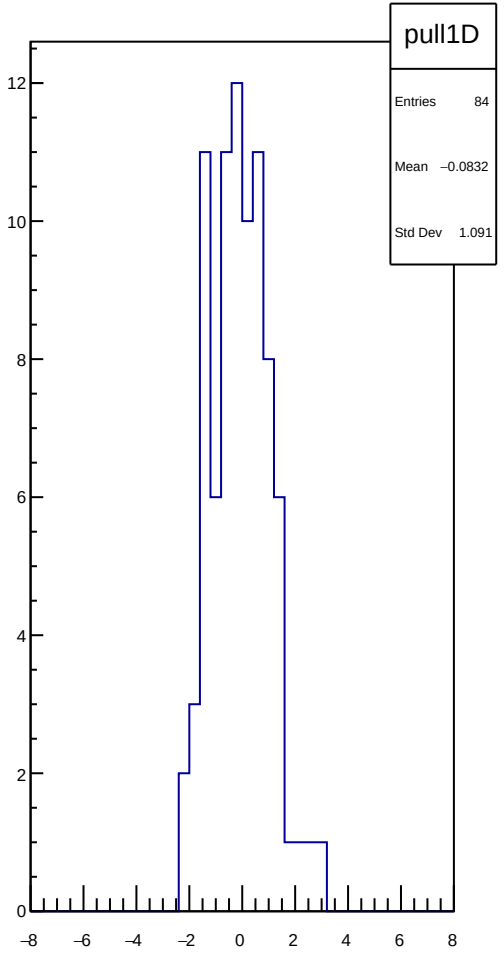

diff_bpm2i01Y_rms vs run
χ² / ndf 3.012e+04 / 83
p0 1054 ± 0.8219
1300
1200
1100
1000
900
800

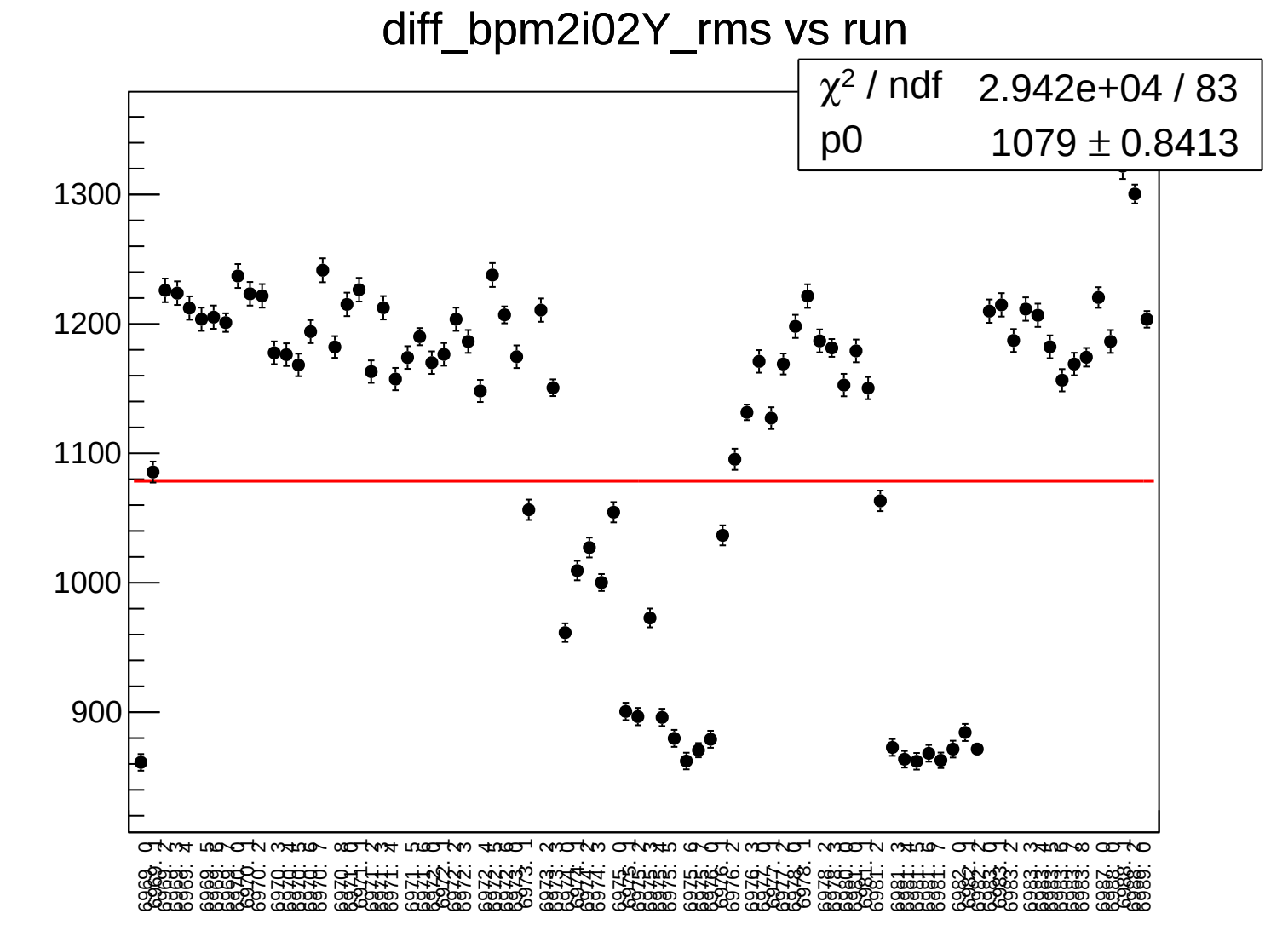

diff_bpm2i02X_mean vs run
χ^2 / ndf 91.25 / 83
p0 −15.74 ± 1.161
pull
Entries 84
Mean 28.06
Std Dev 28.75

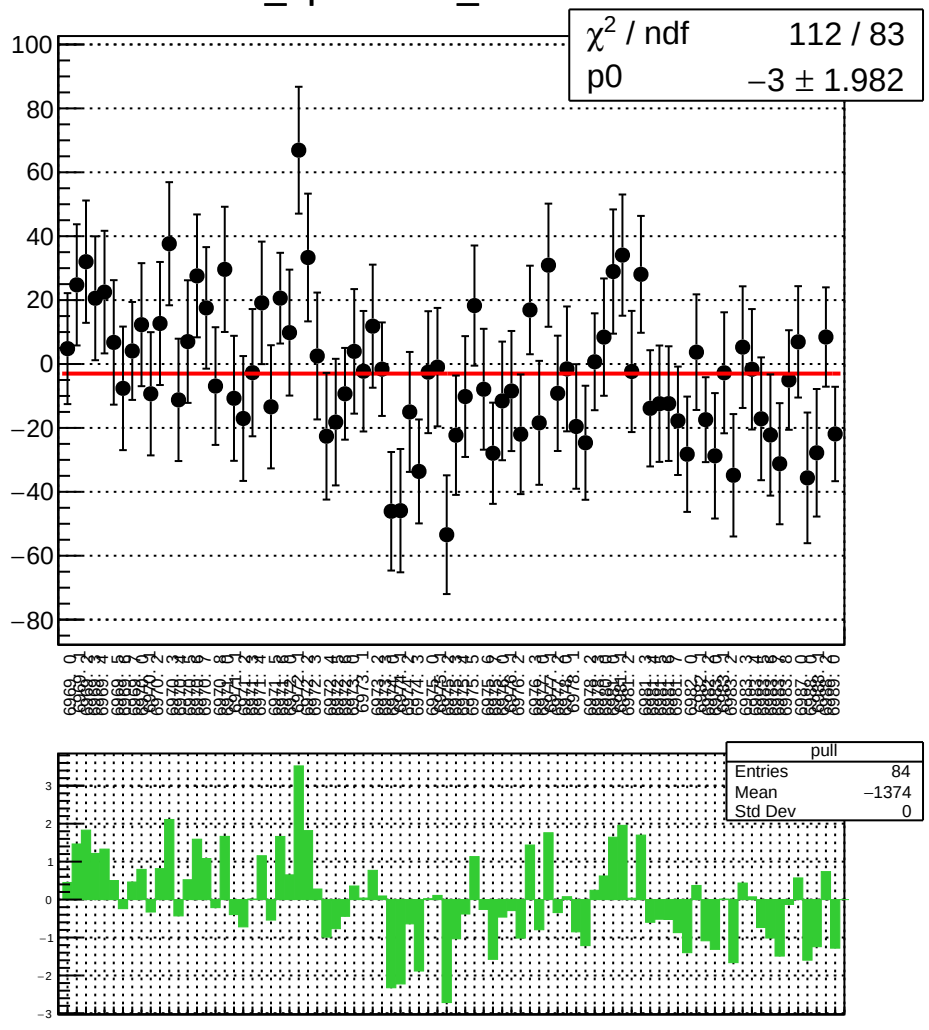

pull1D
Entries 84
Mean 0.05584
Std Dev 1.041

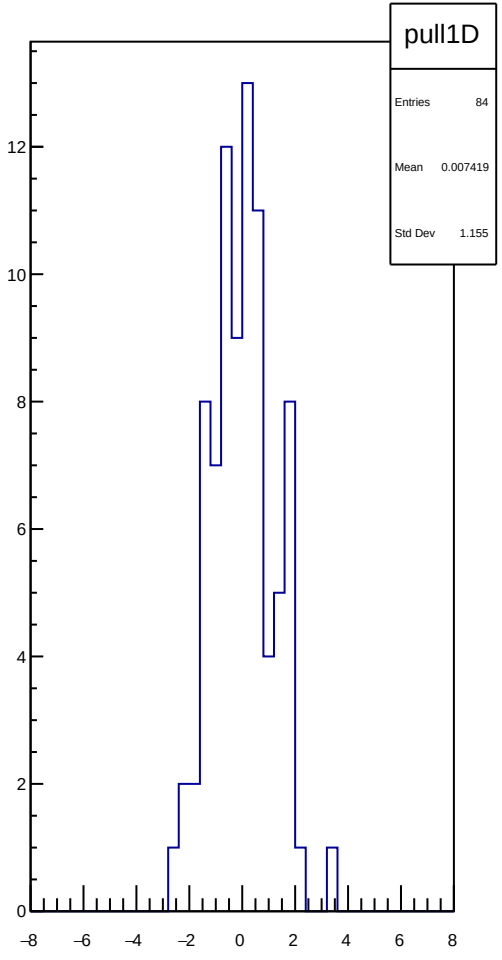

diff_bpm2i02X_rms vs run
χ² / ndf 3.366e+04 / 83
p0 1051 ± 0.8206
1300
1200
1100
1000
900
800

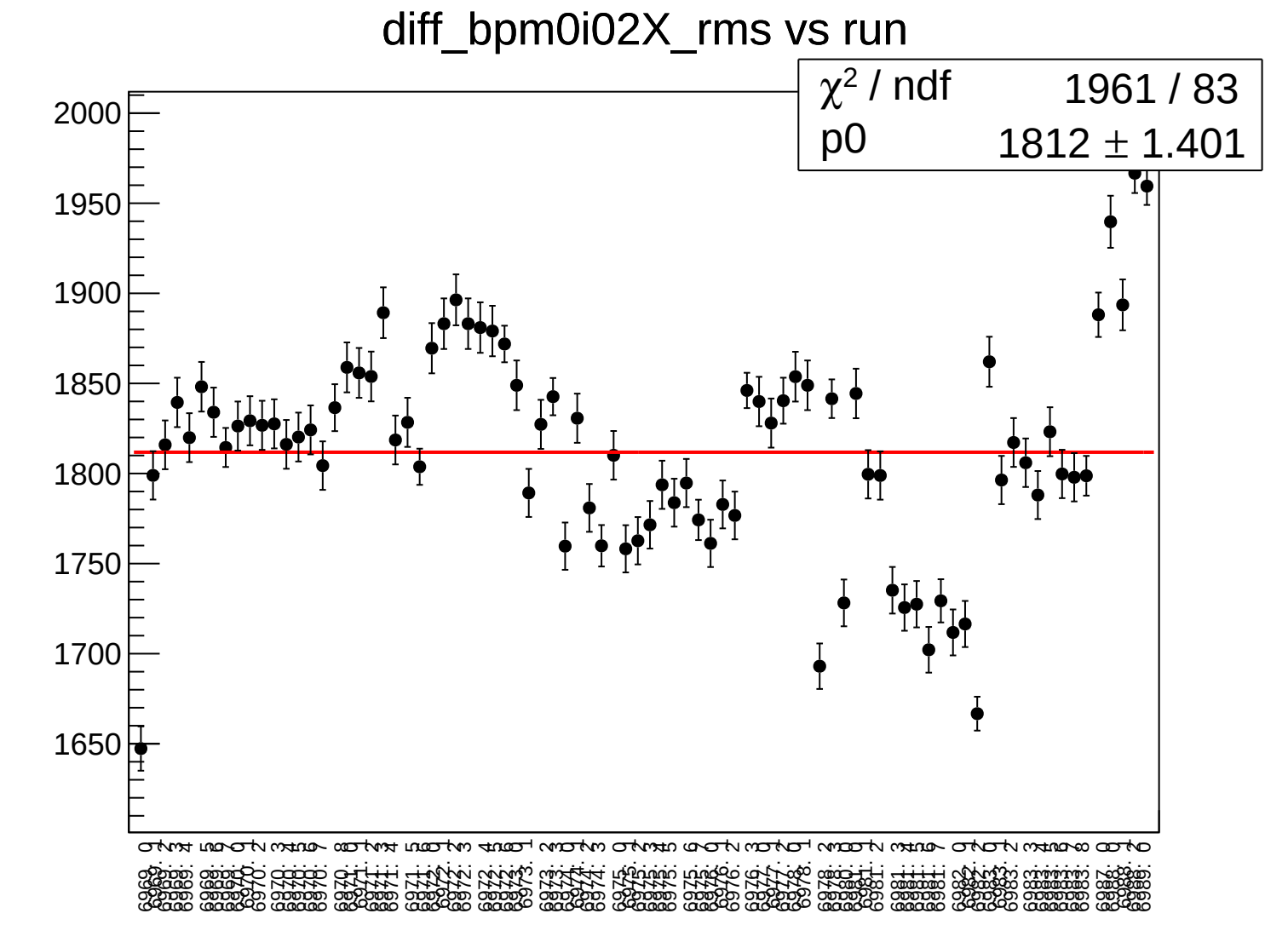

diff_bpm2i02Y_mean vs run
χ² / ndf 100.5 / 83
p0 23.02 ± 1.19
pull
Entries 84
Mean 9.812
Std Dev 38.65

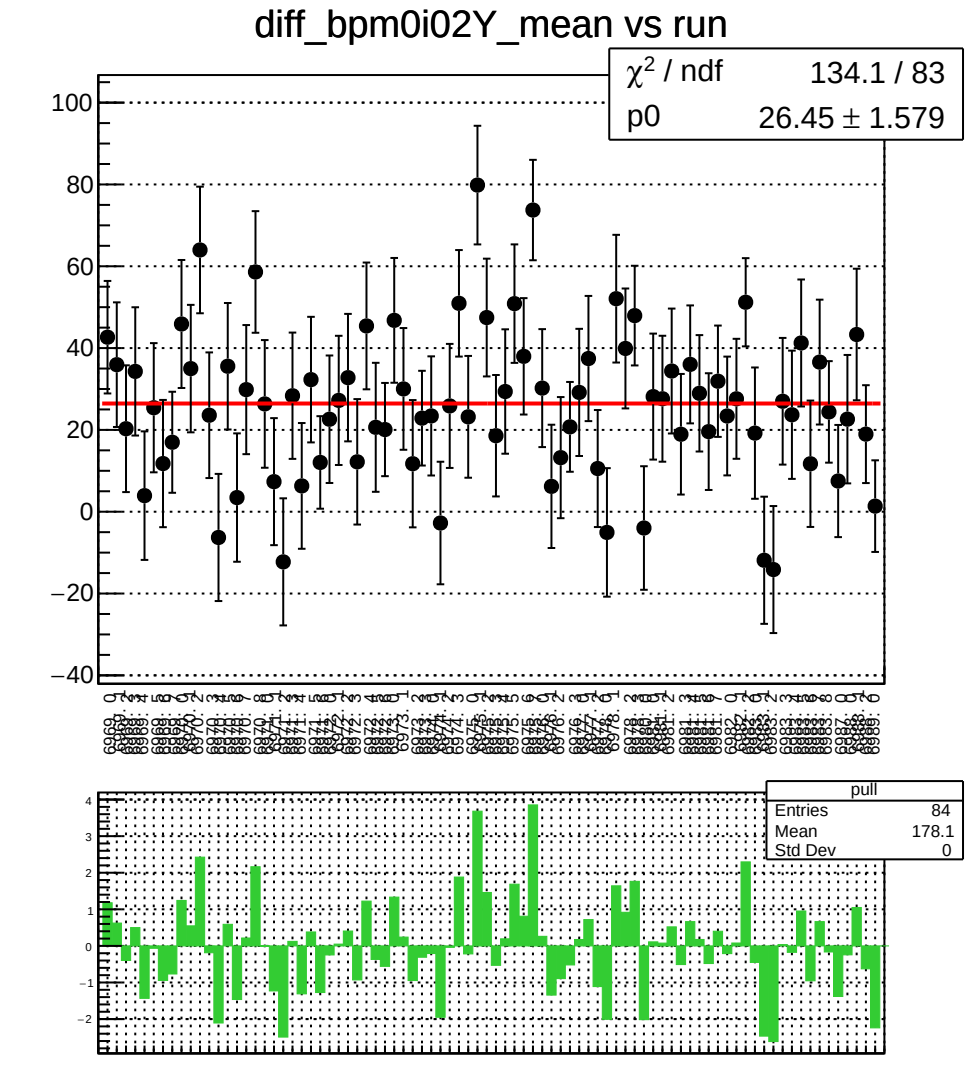

pull1D
Entries 84
Mean −0.0832
Std Dev 1.091

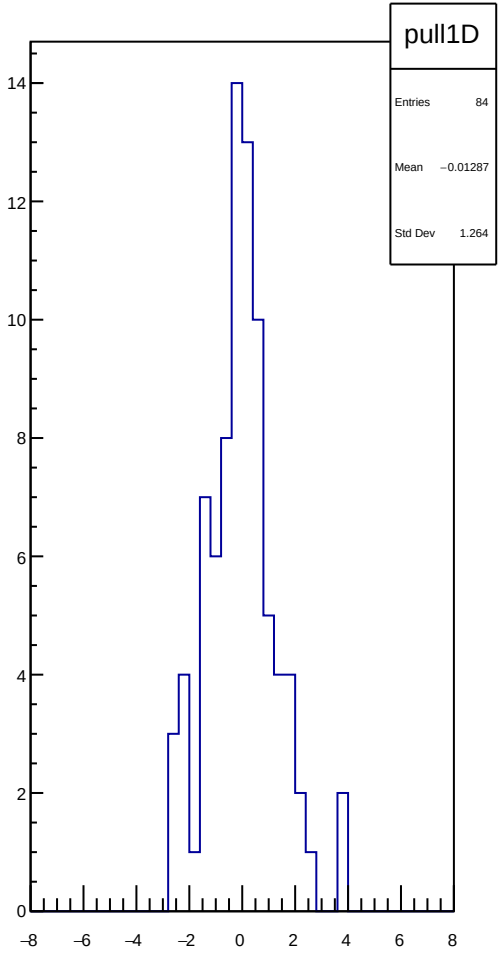

diff_bpm2i02Y_rms vs run
χ² / ndf 2.942e+04 / 83
p0 1079 ± 0.8413
1300
1200
1100
1000
900

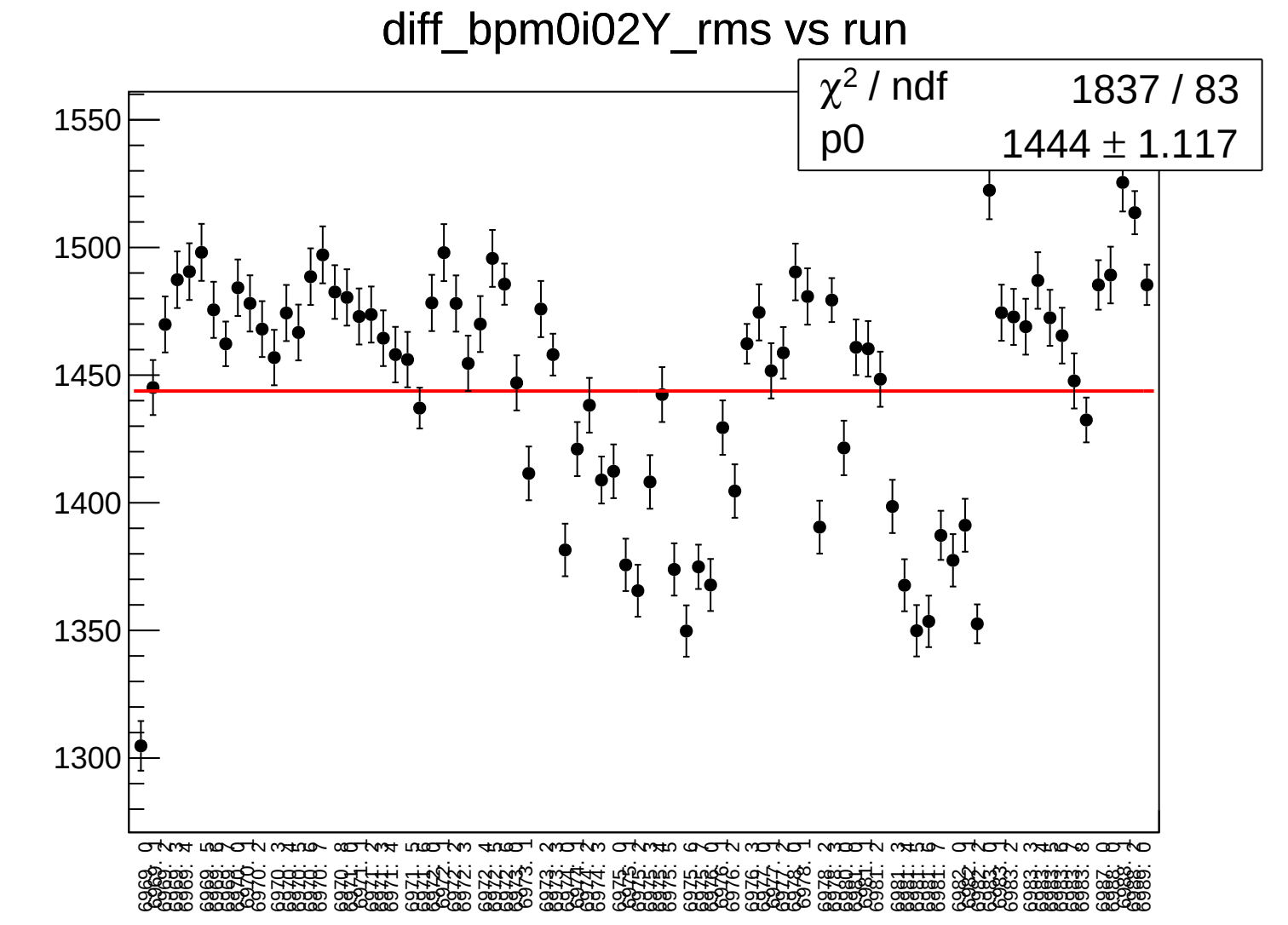

diff_bpm0i02X_mean vs run
χ² / ndf 112 / 83
p0 −3 ± 1.982
pull
Entries 84
Mean −1374
Std Dev 0

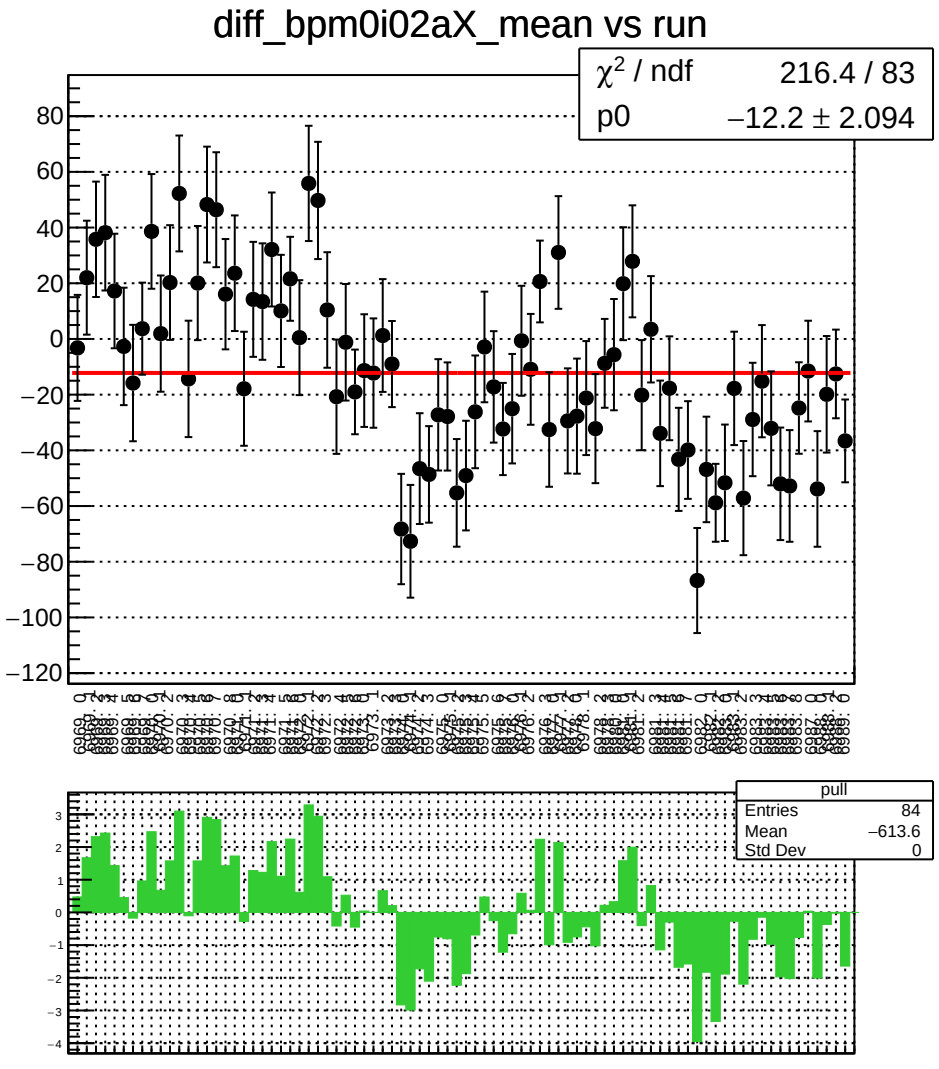

pull1D
Entries 84
Mean 0.007419
Std Dev 1.155

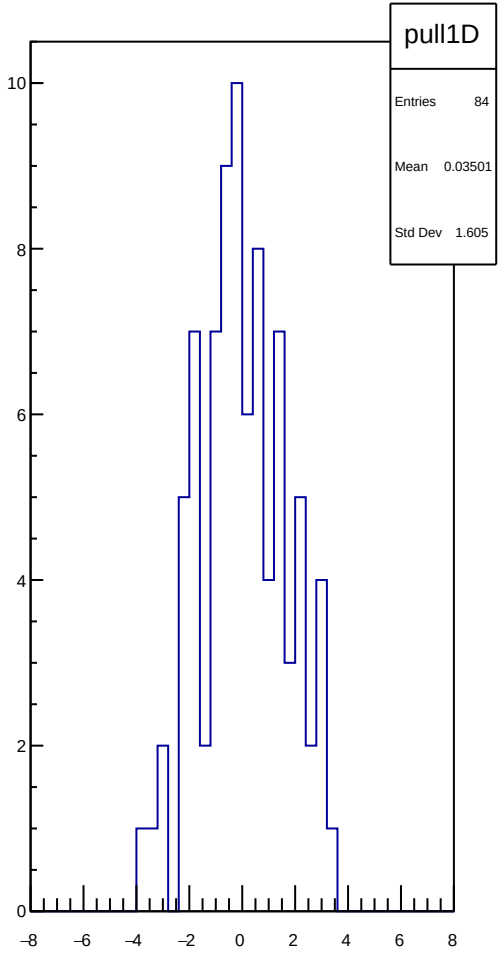

diff_bpm0i02X_rms vs run
χ² / ndf 1961 / 83
p0 1812 ± 1.401
2000
1950
1900
1850
1800
1750
1700
1650

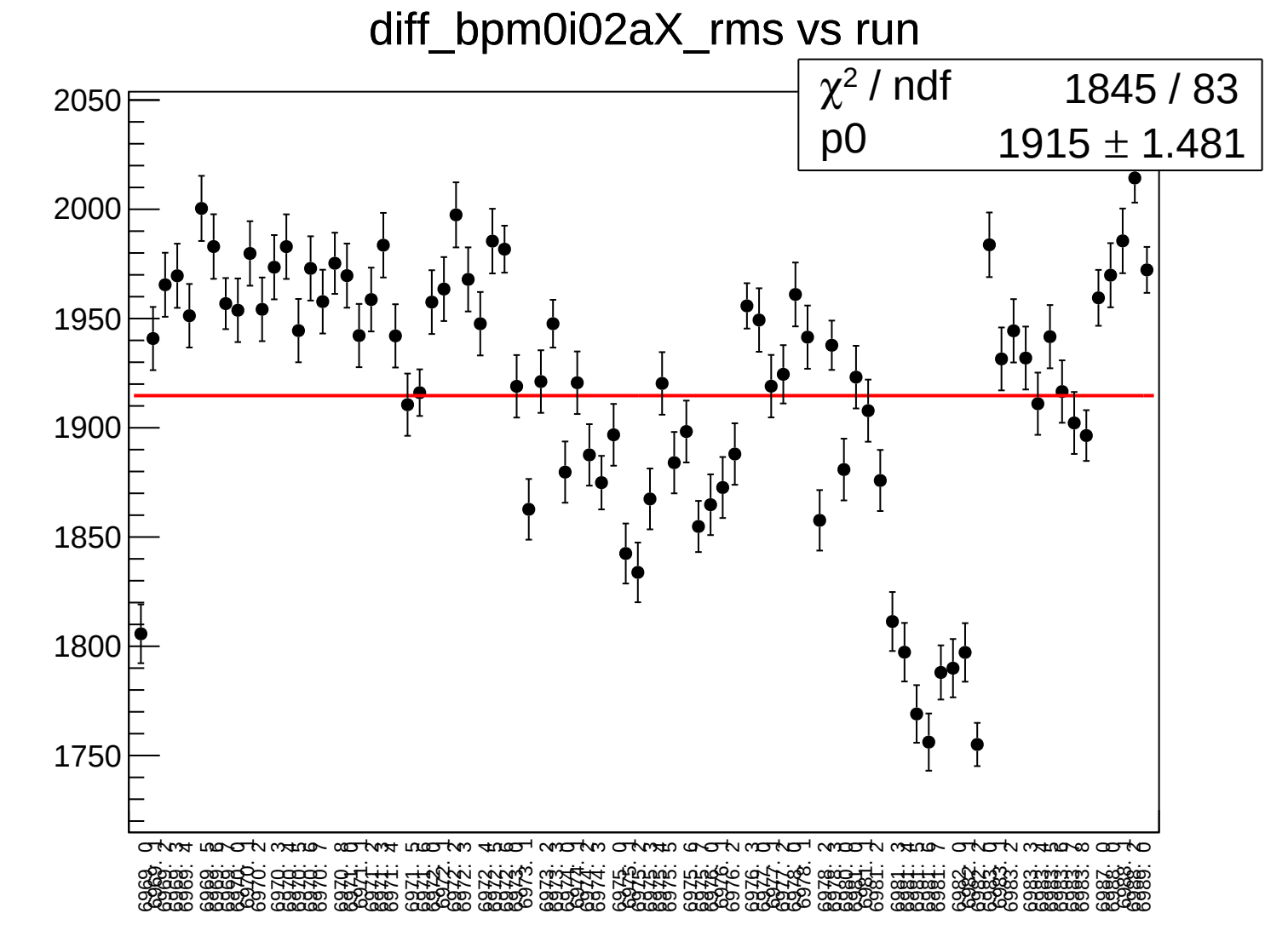

diff_bpm0i02Y_mean vs run
χ^2 / ndf 134.1 / 83
p0 26.45 ± 1.579
pull
Entries 84
Mean 178.1
Std Dev 0

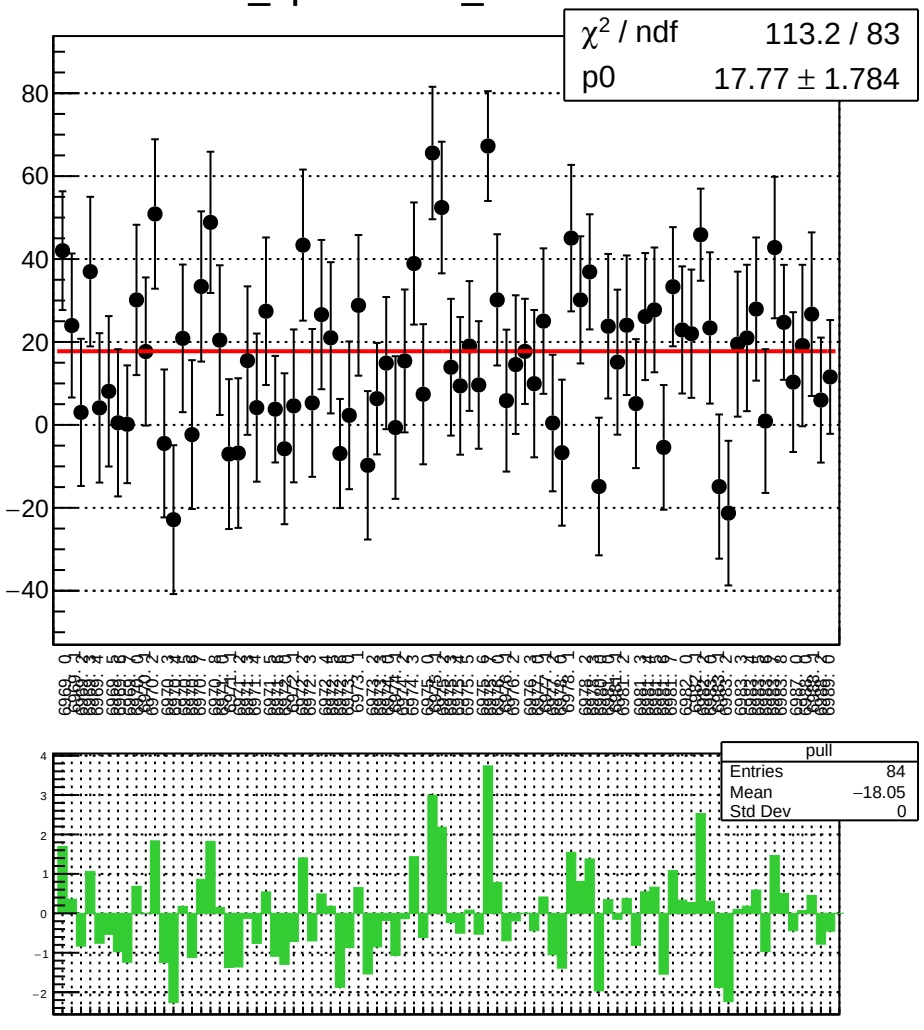

pull1D
Entries 84
Mean −0.01287
Std Dev 1.264

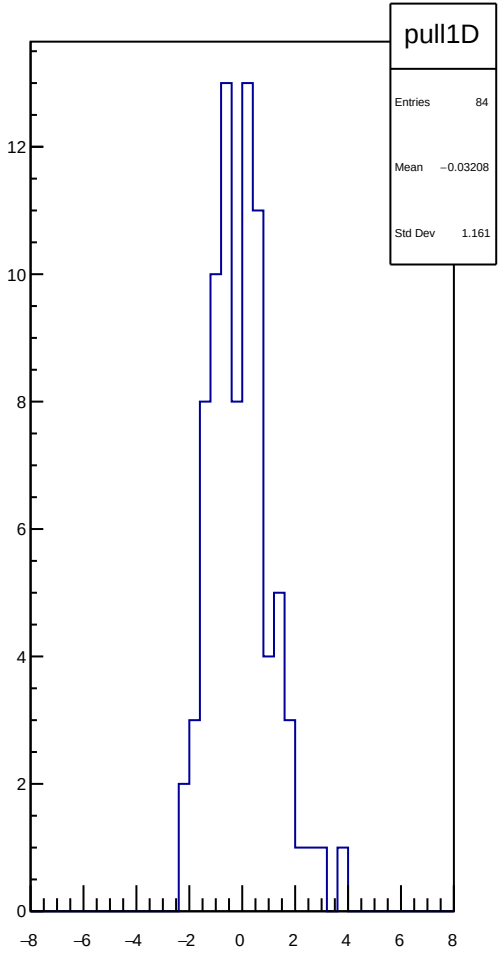

diff_bpm0i02Y_rms vs run
χ² / ndf 1837 / 83
p0 1444 ± 1.117
1550
1500
1450
1400
1350
1300

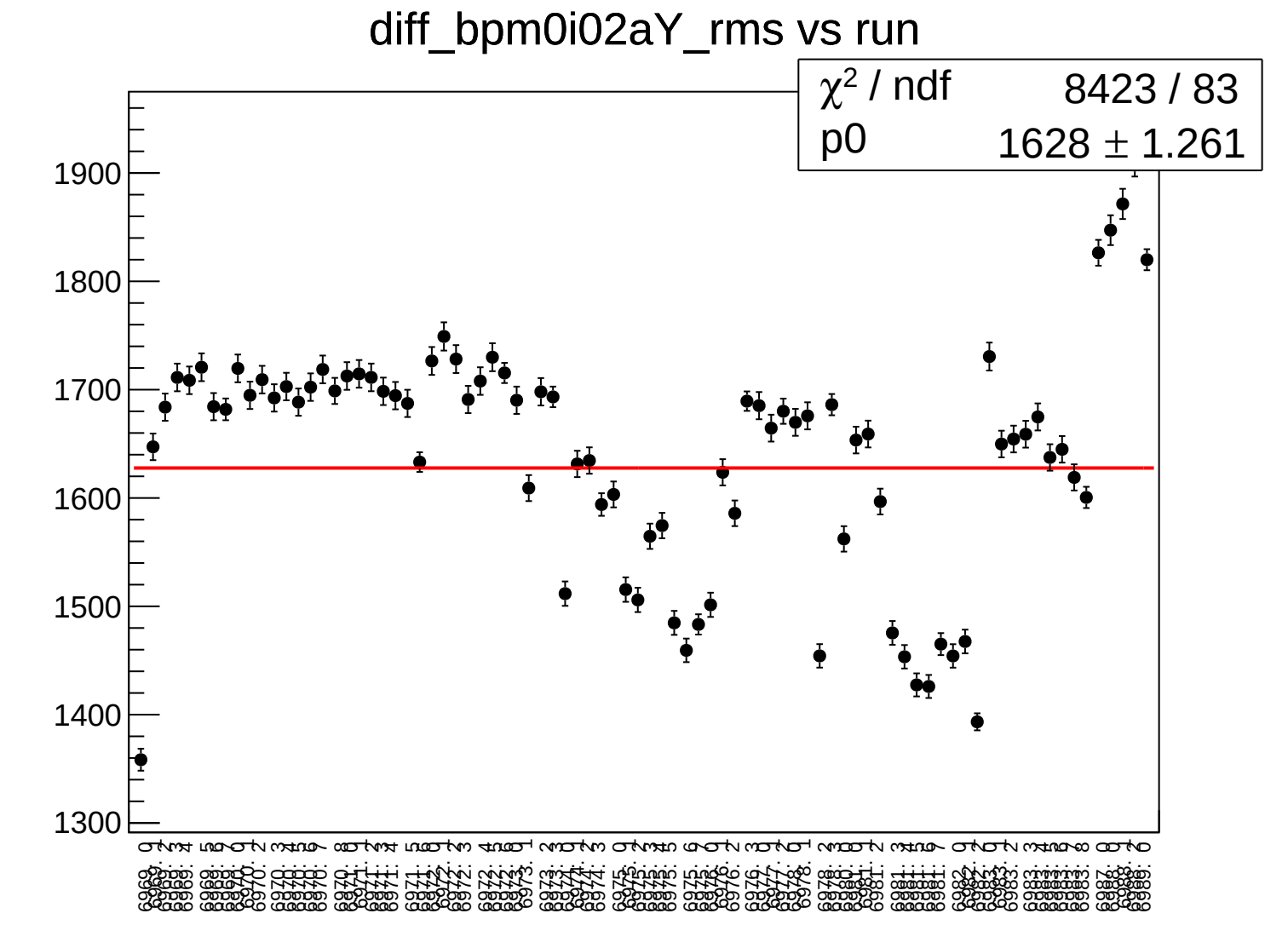

diff_bpm0i02aX_mean vs run
χ² / ndf 216.4 / 83
p0 −12.2 ± 2.094
pull
Entries 84
Mean −613.6
Std Dev 0

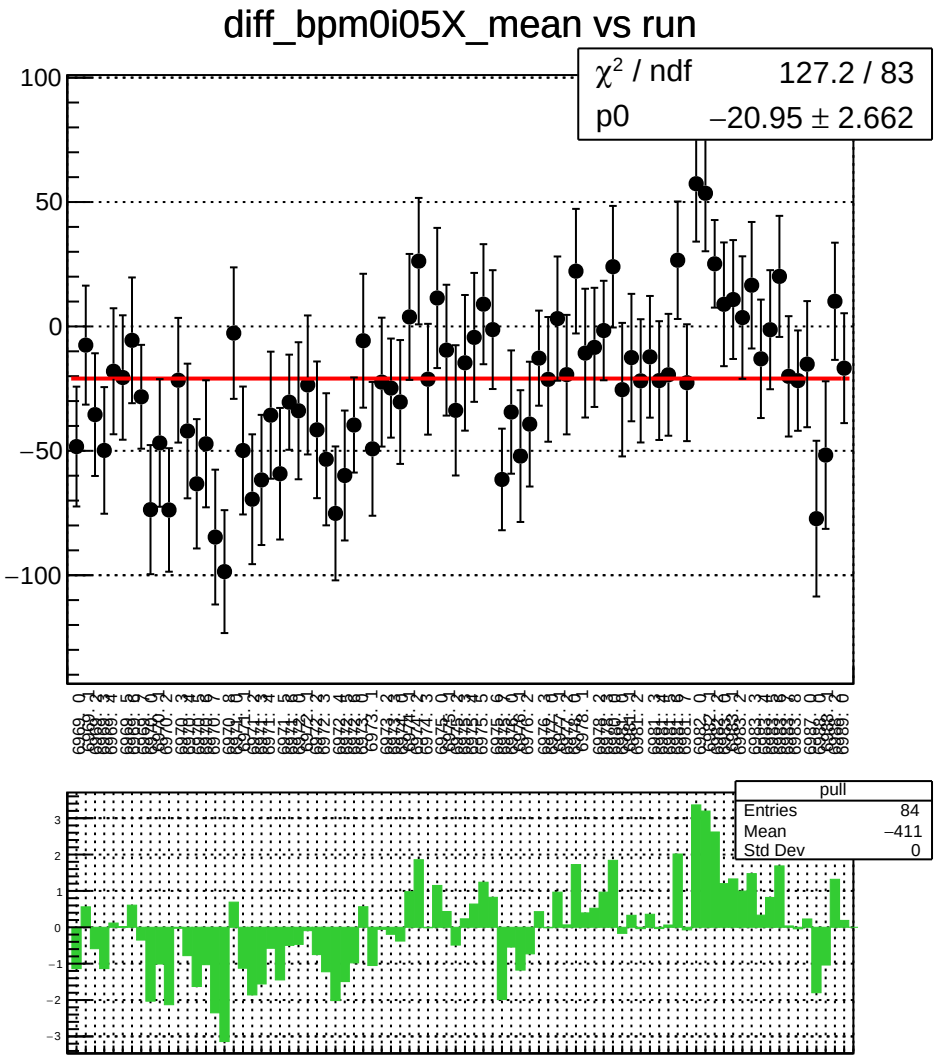

pull1D
Entries 84
Mean 0.03501
Std Dev 1.605

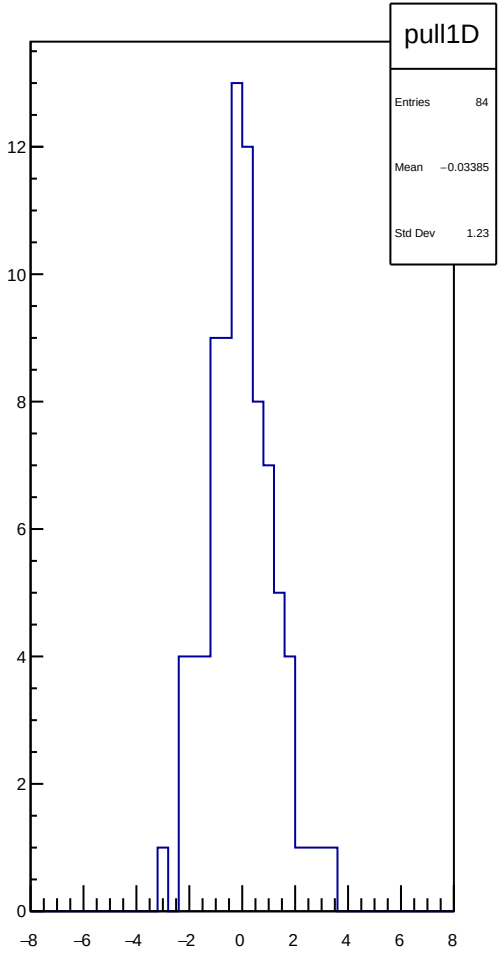

diff_bpm0i02aX_rms vs run
χ² / ndf 1845 / 83
p0 1915 ± 1.481
2050
2000
1950
1900
1850
1800
1750

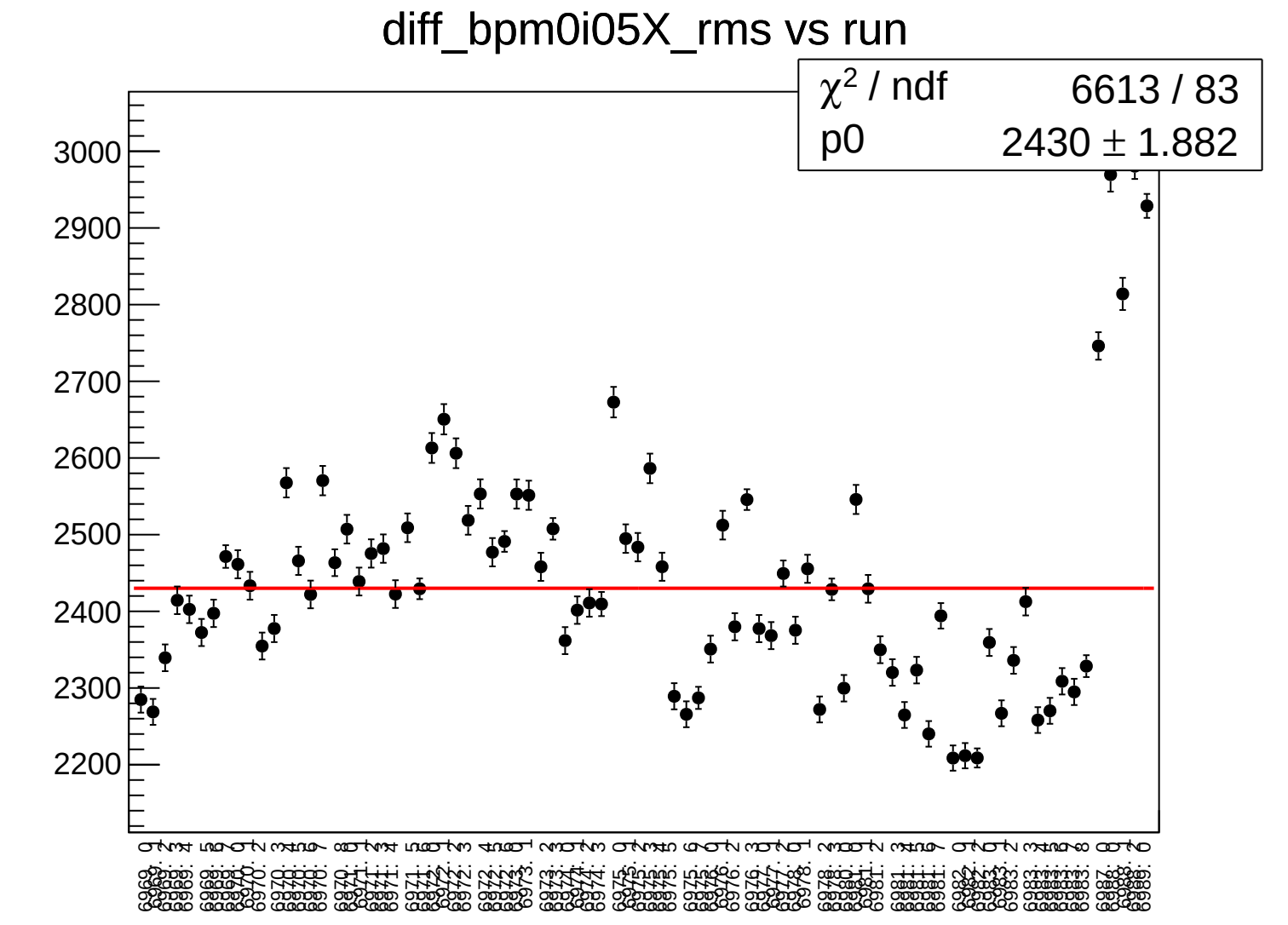

diff_bpm0i02aY_mean vs run
χ² / ndf 113.2 / 83
p0 17.77 ± 1.784
pull
Entries 84
Mean −18.05
Std Dev 0

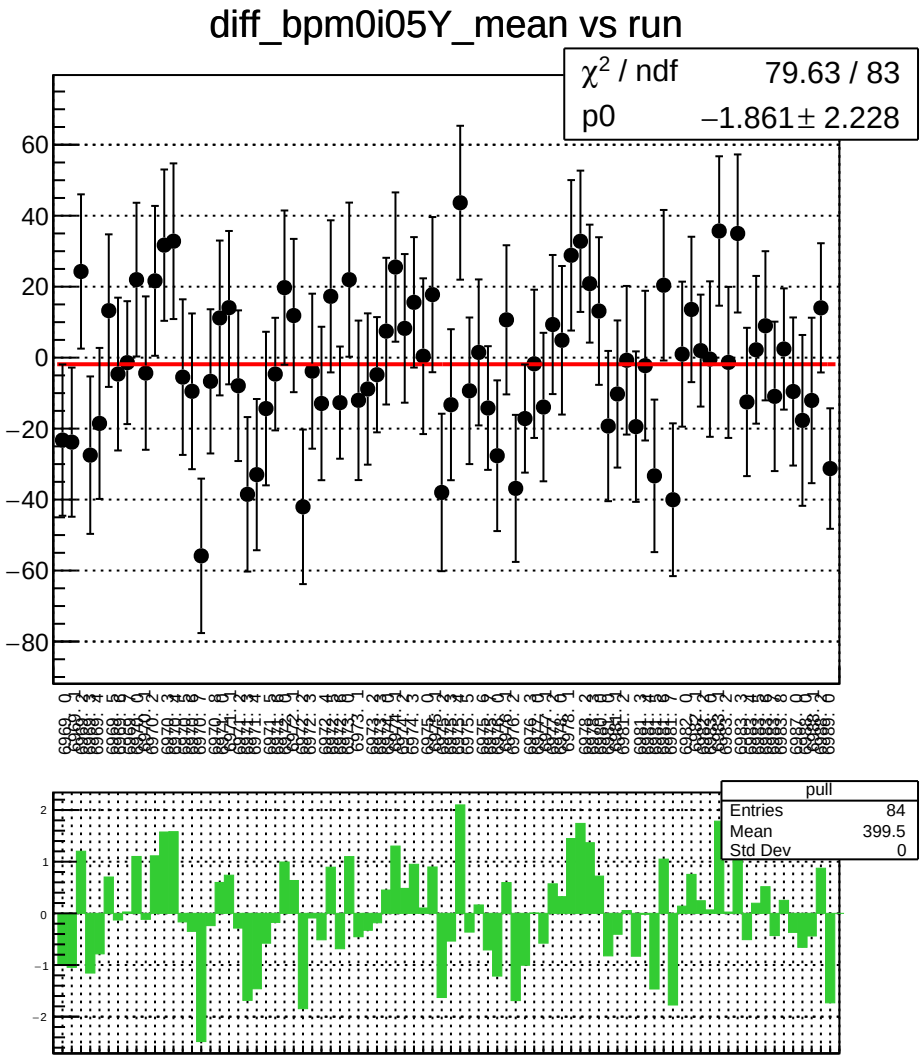

pull1D
Entries 84
Mean −0.03208
Std Dev 1.161

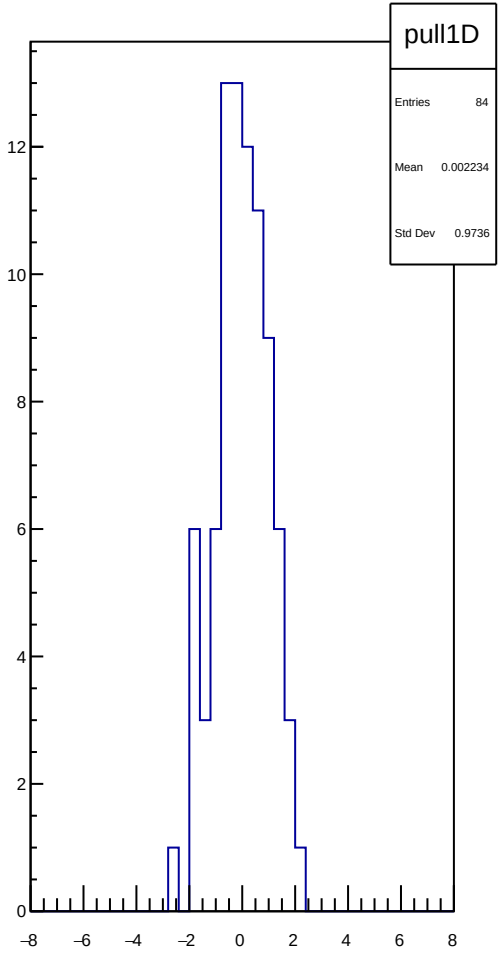

diff_bpm0i02aY_rms vs run
χ² / ndf 8423 / 83
p0 1628 ± 1.261
1900
1800
1700
1600
1500
1400
1300

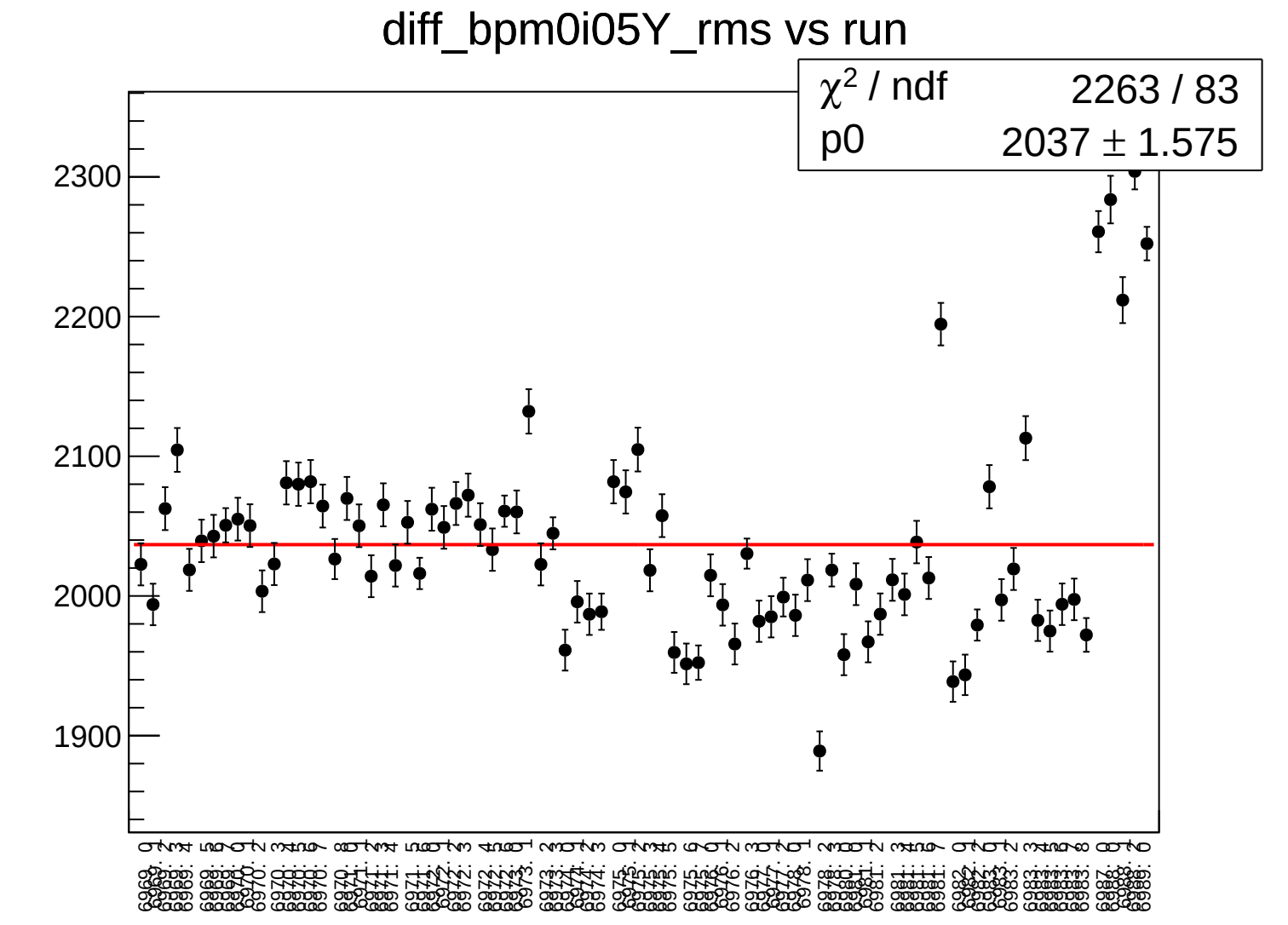

diff_bpm0i05X_mean vs run
χ² / ndf 127.2 / 83
p0 −20.95 ± 2.662
100
50
0
−50
−100
pull
Entries 84
Mean −411
Std Dev 0
3
2
1
0
−1
−2
−3

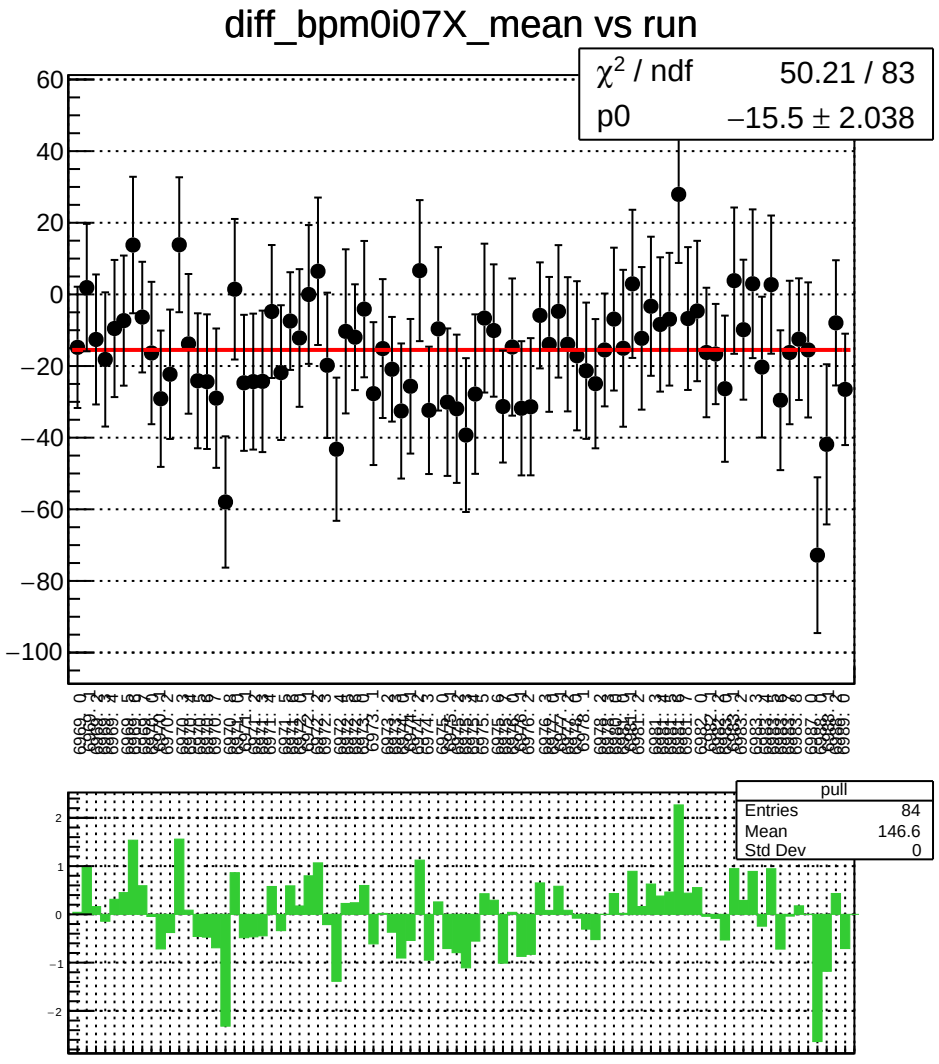

pull1D
Entries 84
Mean −0.03385
Std Dev 1.23
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

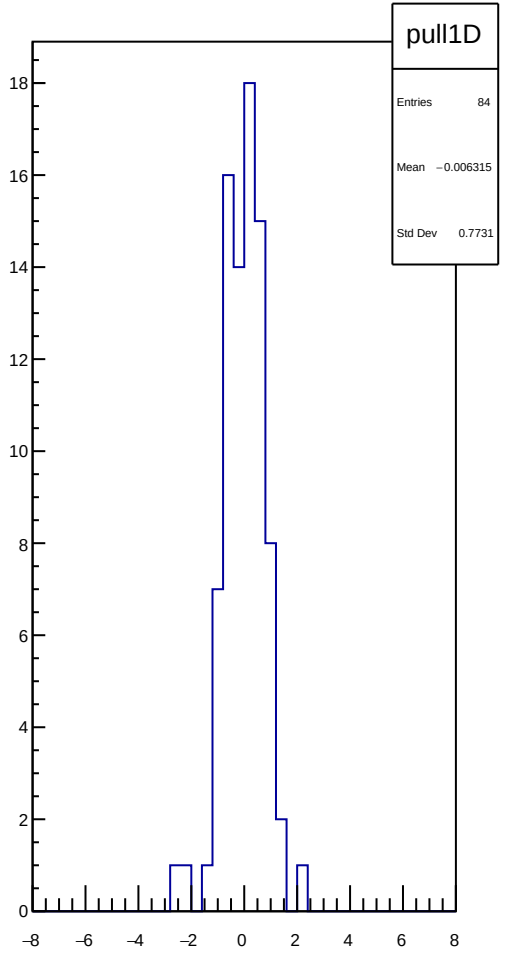

diff_bpm0i05X_rms vs run
χ² / ndf 6613 / 83
p0 2430 ± 1.882
3000
2900
2800
2700
2600
2500
2400
2300
2200

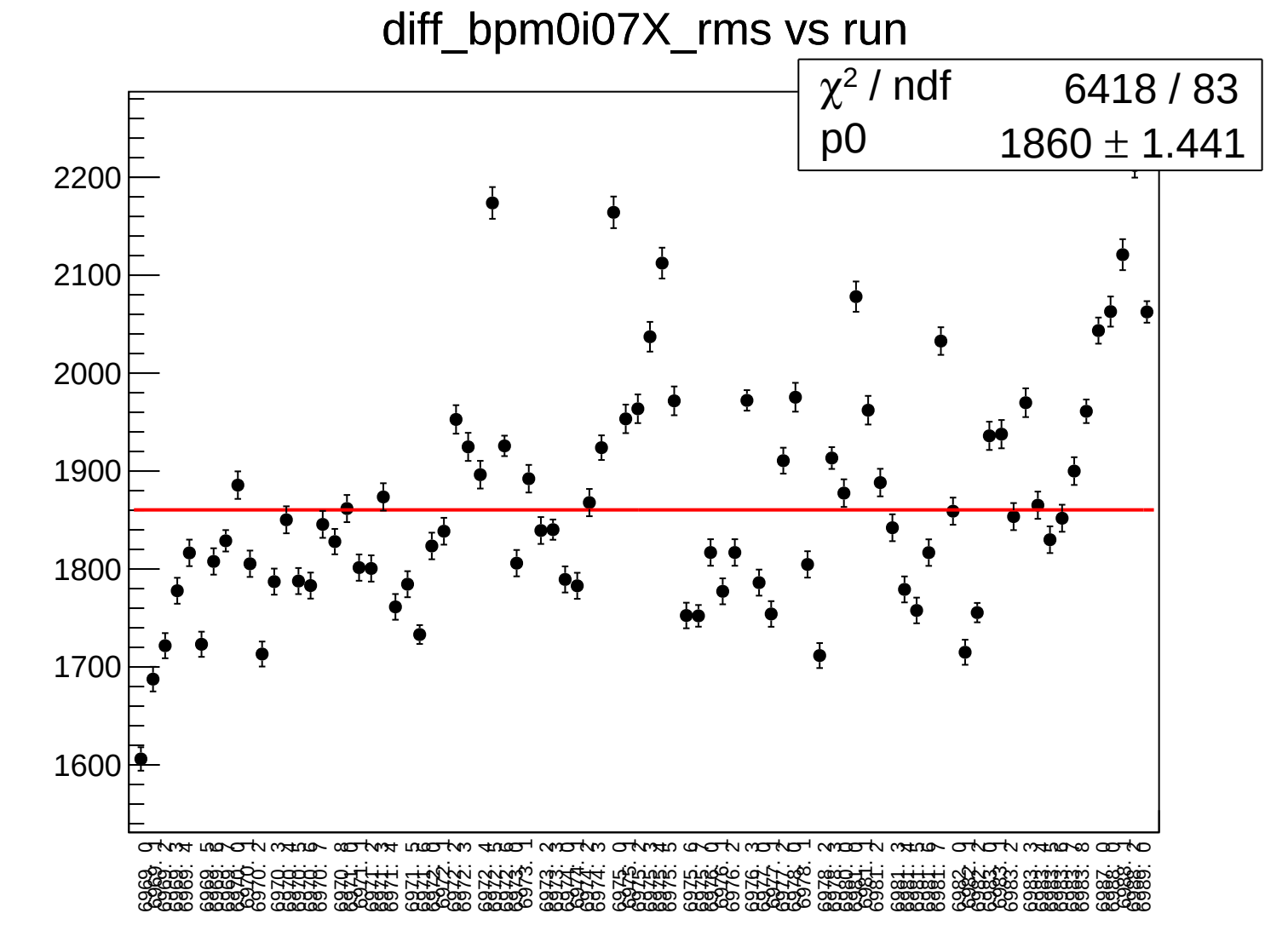

diff_bpm0i05Y_mean vs run
χ² / ndf 79.63 / 83
p0 −1.861± 2.228
pull
Entries 84
Mean 399.5
Std Dev 0

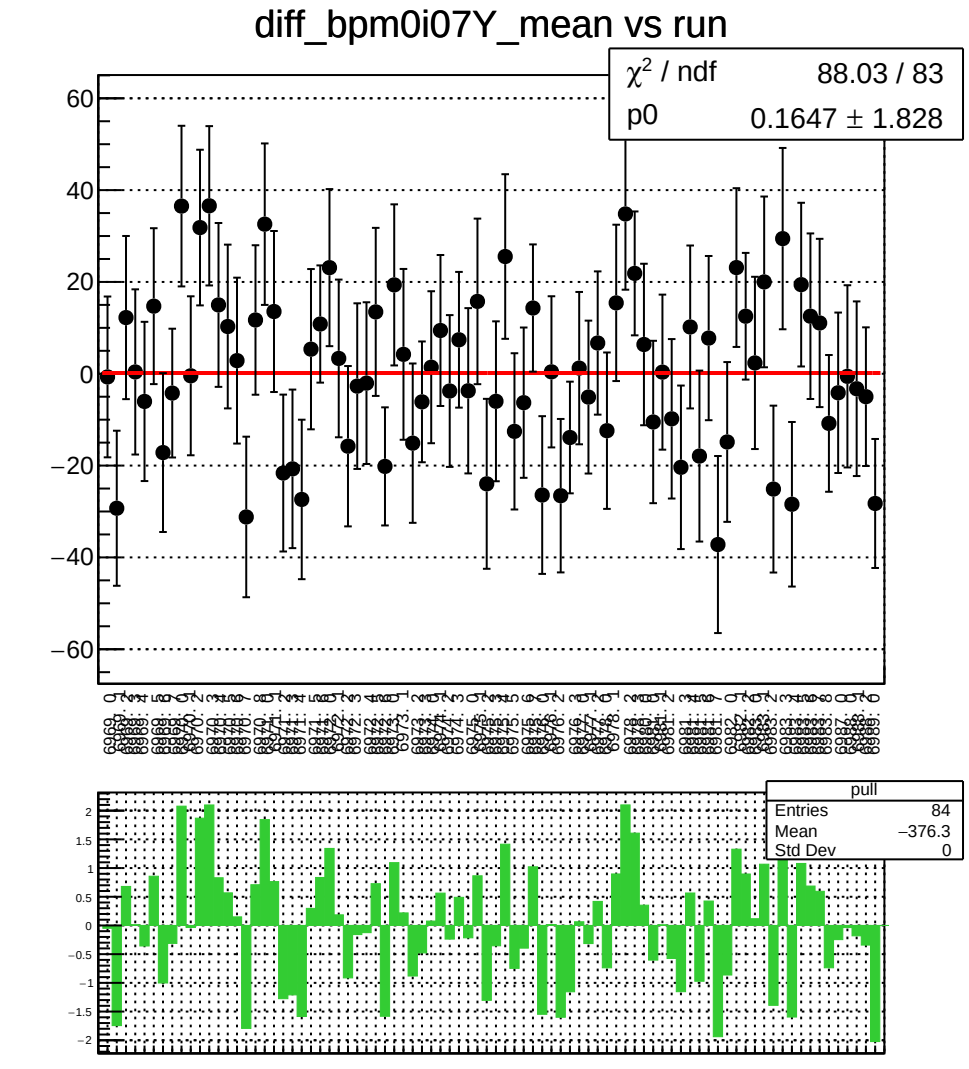

pull1D
Entries 84
Mean 0.002234
Std Dev 0.9736

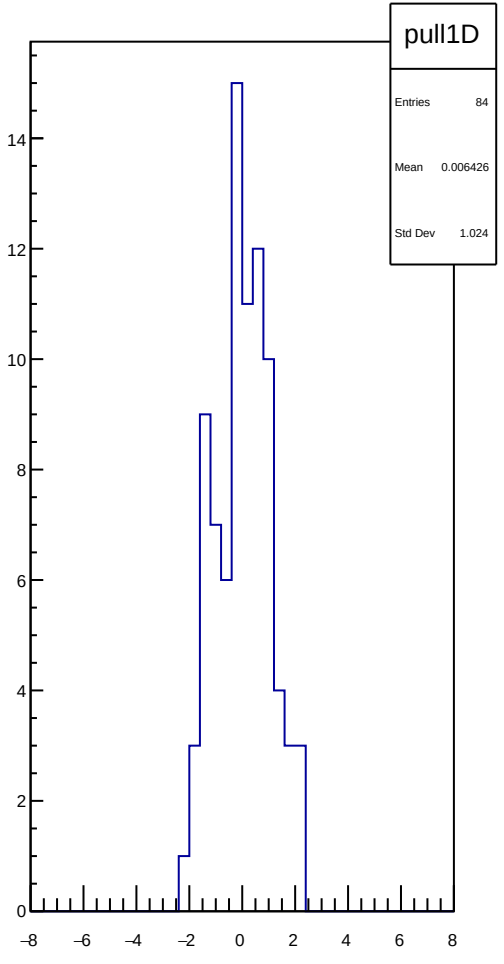

diff_bpm0i05Y_rms vs run
χ² / ndf 2263 / 83
p0 2037 ± 1.575
2300
2200
2100
2000
1900

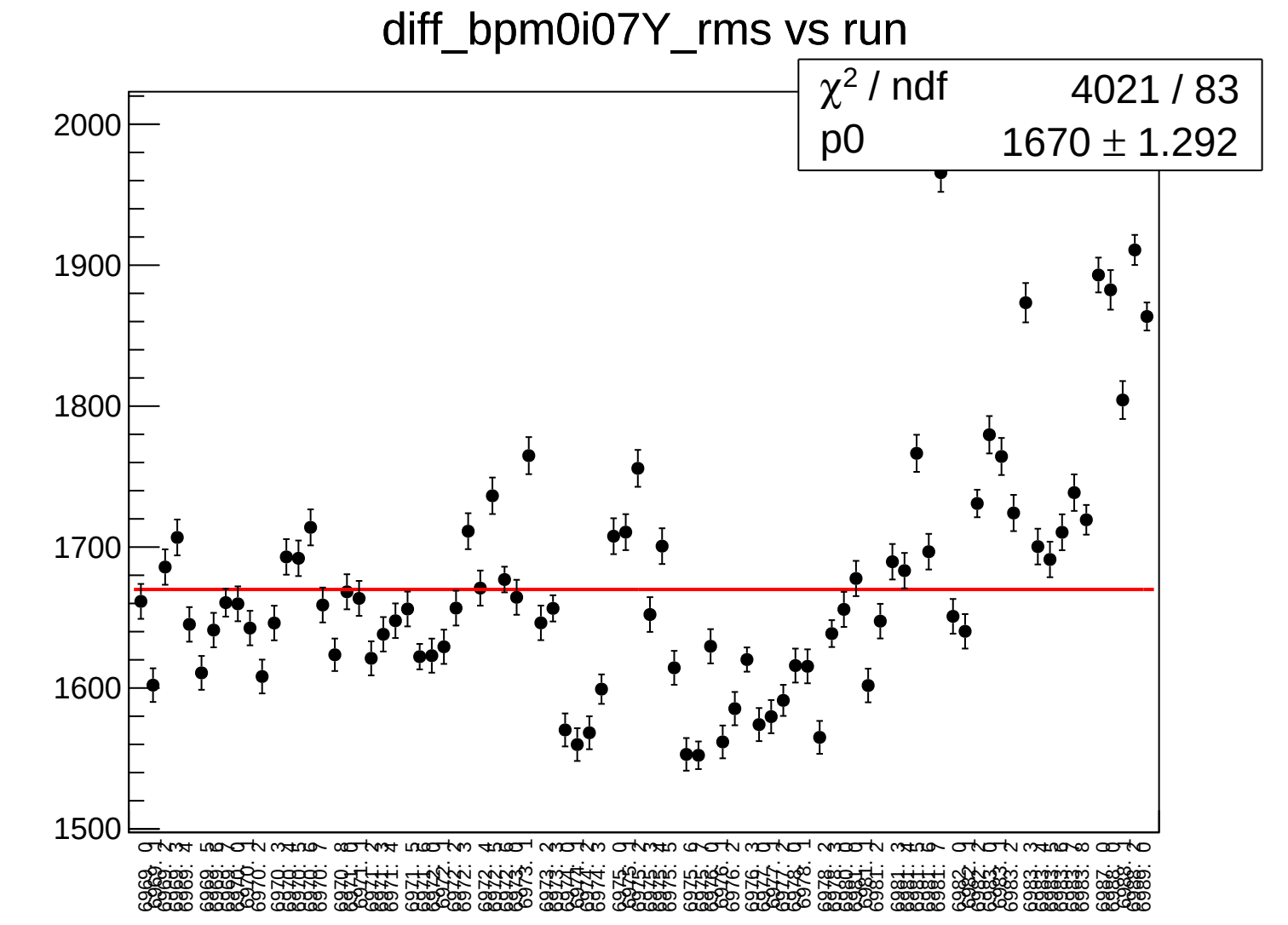

diff_bpm0i07X_mean vs run
χ² / ndf 50.21 / 83
p0 −15.5 ± 2.038
pull
Entries 84
Mean 146.6
Std Dev 0

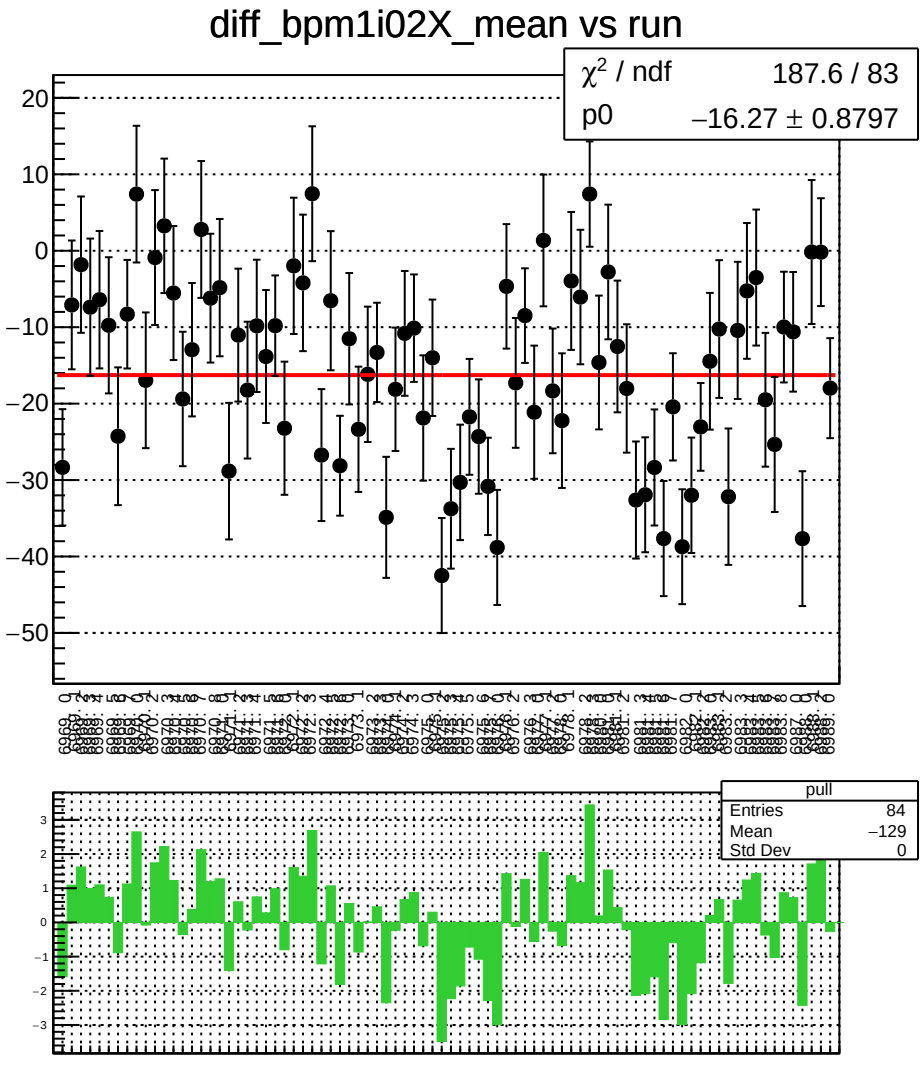

pull1D
Entries 84
Mean −0.006315
Std Dev 0.7731

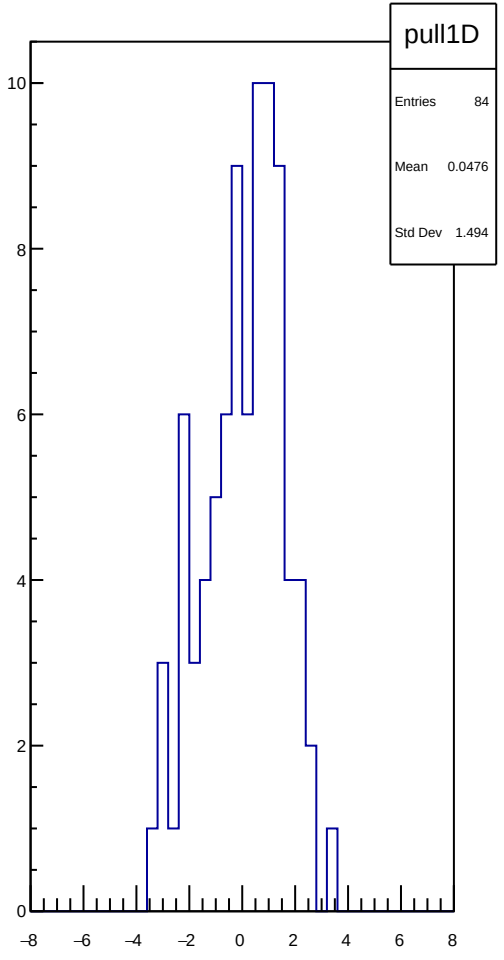

diff_bpm0i07X_rms vs run
χ² / ndf 6418 / 83
p0 1860 ± 1.441
2200
2100
2000
1900
1800
1700
1600

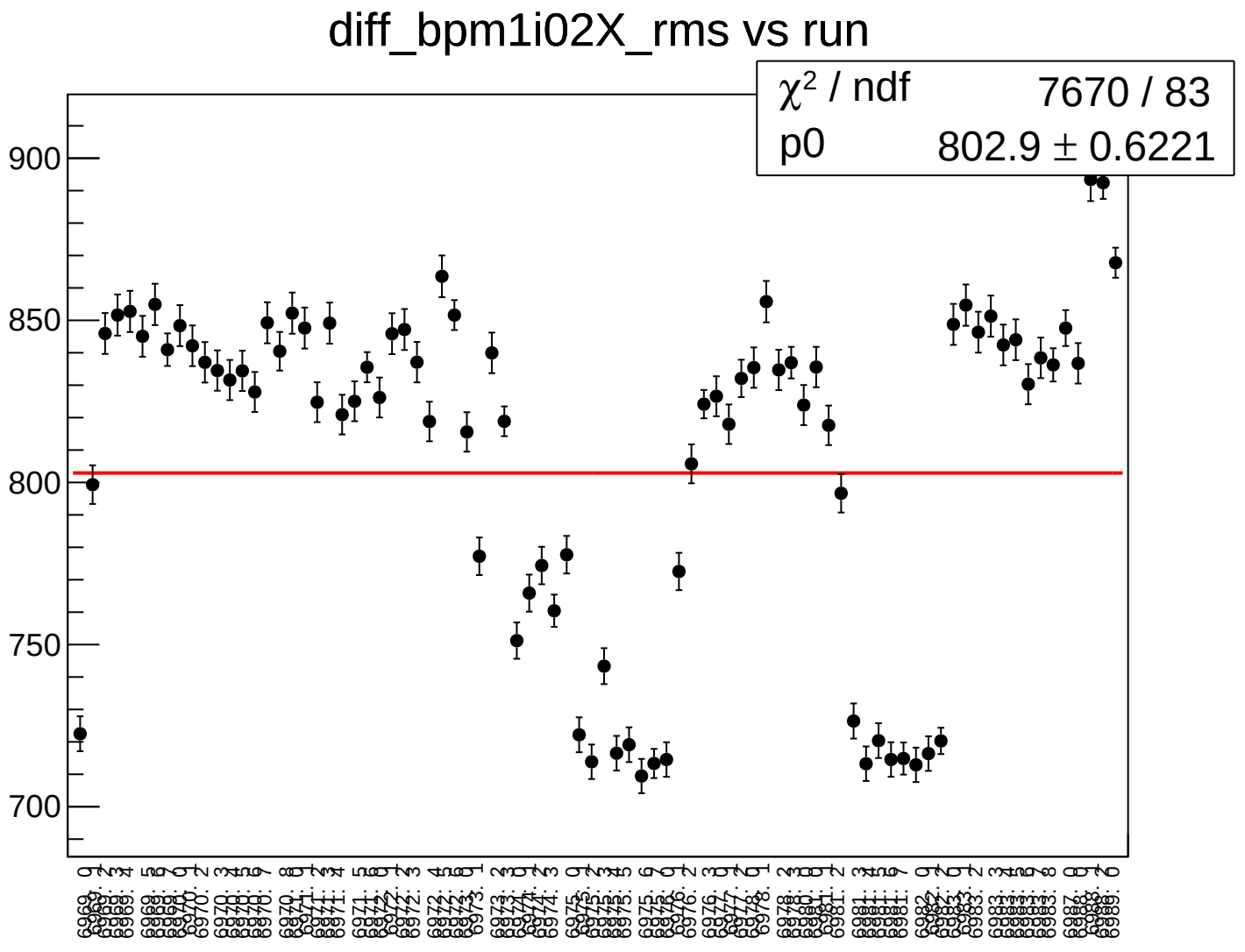

diff_bpm0i07Y_mean vs run
χ² / ndf 88.03 / 83
p0 0.1647 ± 1.828
pull
Entries 84
Mean −376.3
Std Dev 0

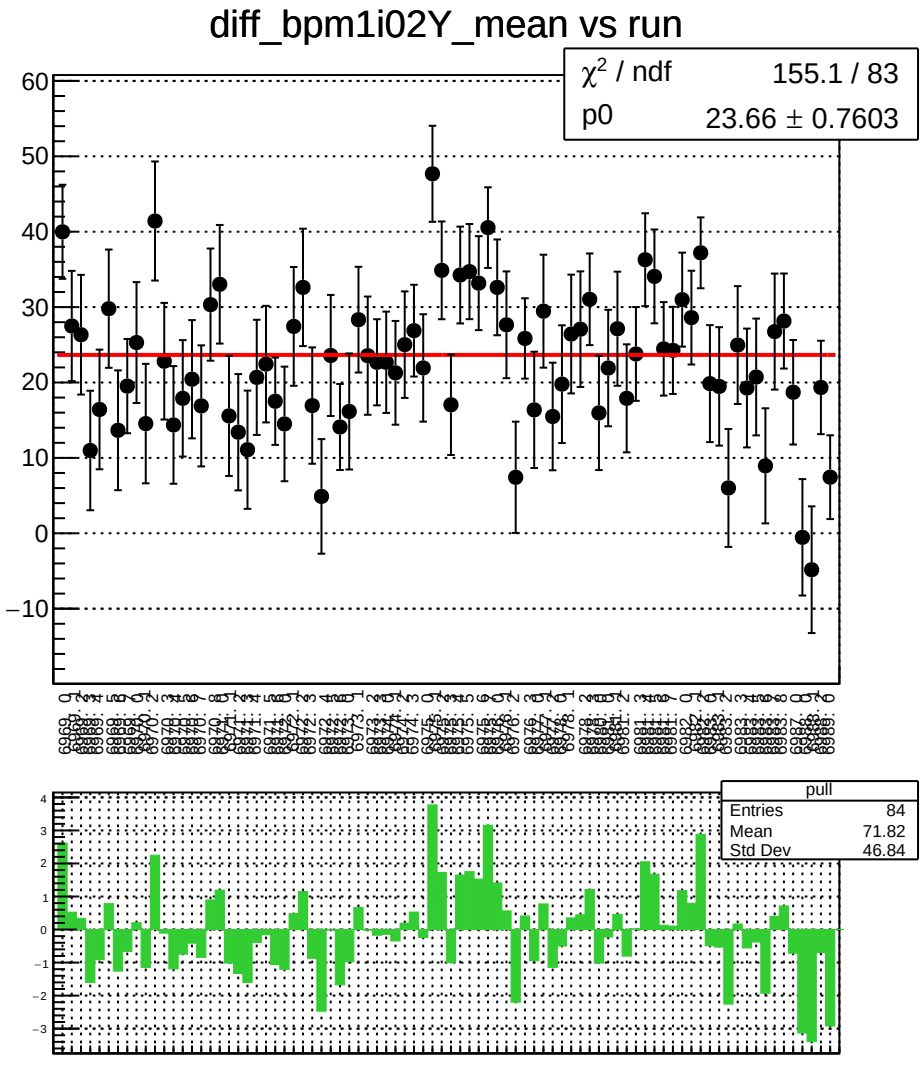

pull1D
Entries 84
Mean 0.006426
Std Dev 1.024

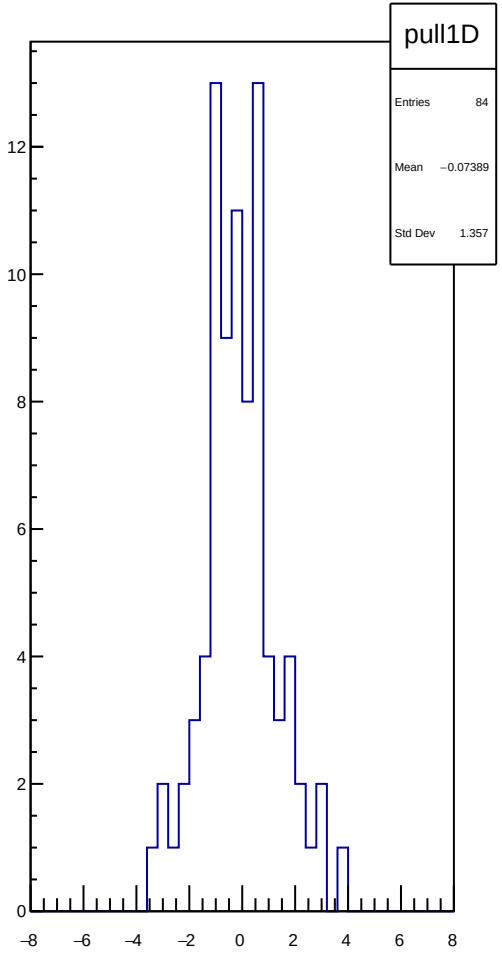

diff_bpm0i07Y_rms vs run
χ² / ndf 4021 / 83
p0 1670 ± 1.292
2000
1900
1800
1700
1600
1500

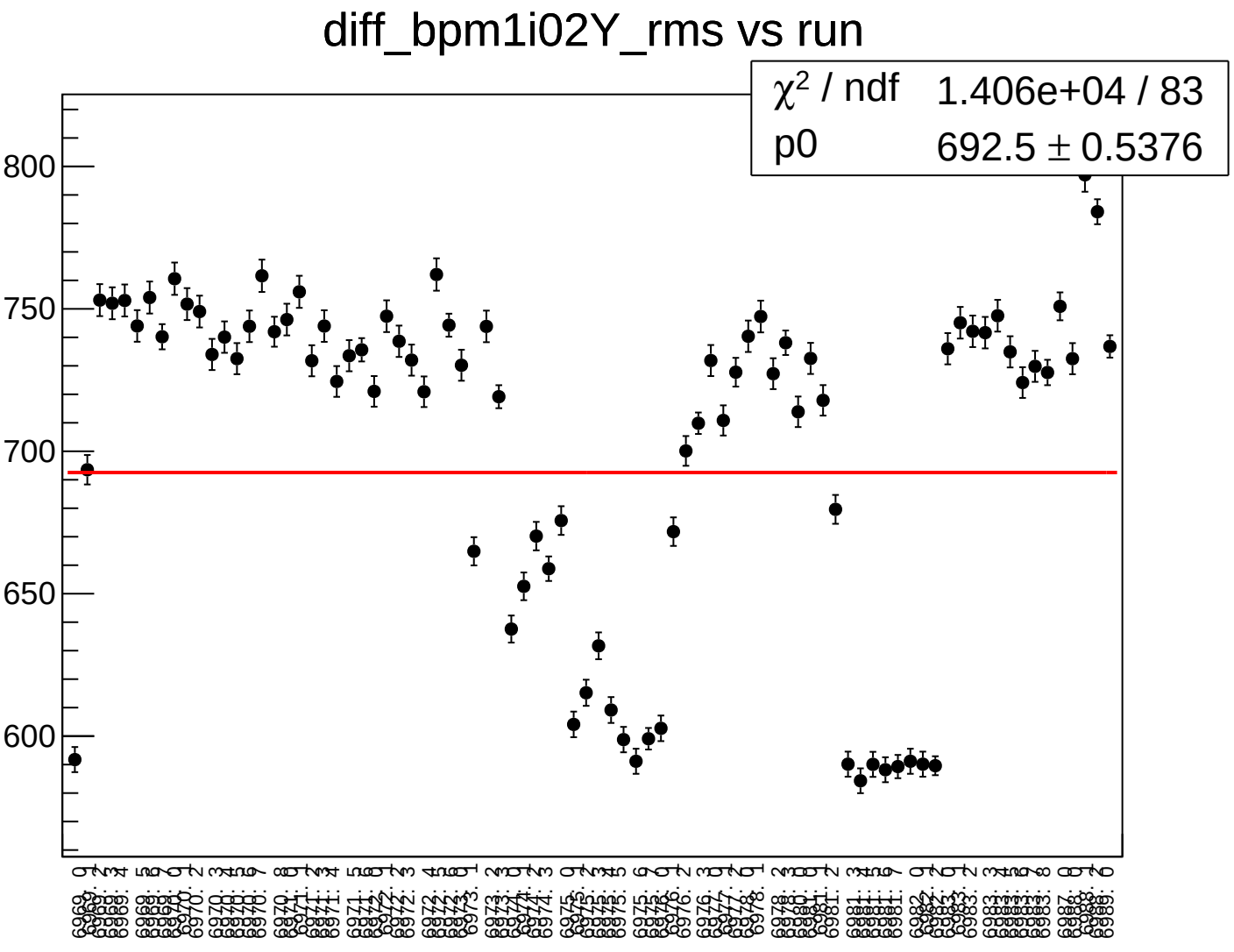

diff_bpm1i02X_mean vs run
χ² / ndf 187.6 / 83
p0 −16.27 ± 0.8797
pull
Entries 84
Mean −129
Std Dev 0

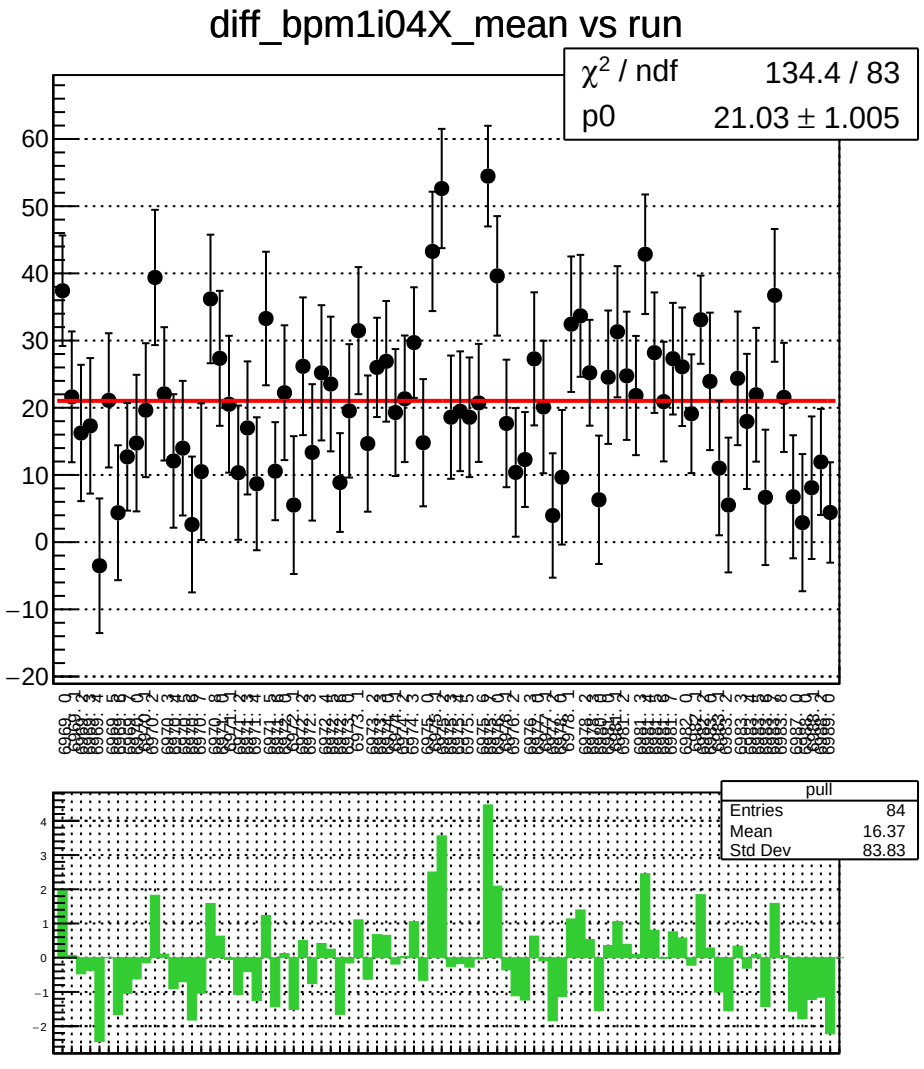

pull1D
Entries 84
Mean 0.0476
Std Dev 1.494

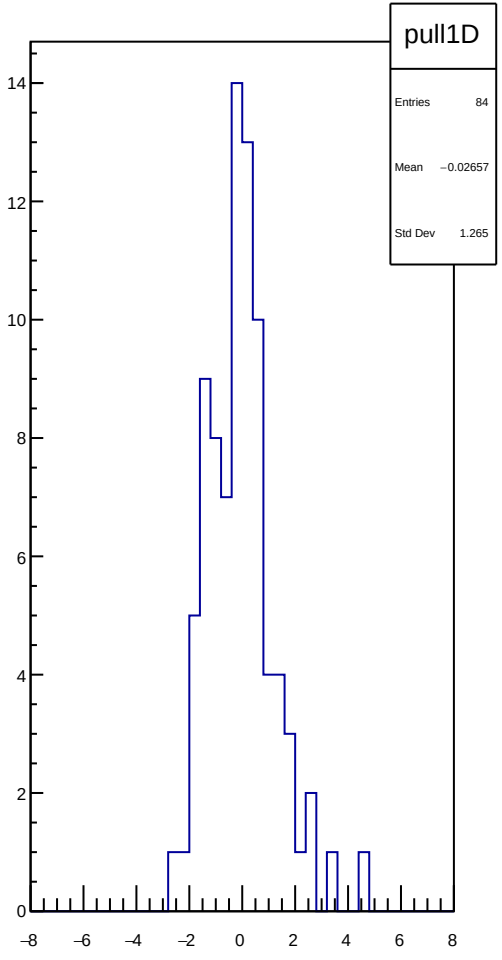

diff_bpm1i02X_rms vs run
χ² / ndf 7670 / 83
p0 802.9 ± 0.6221
900
850
800
750
700

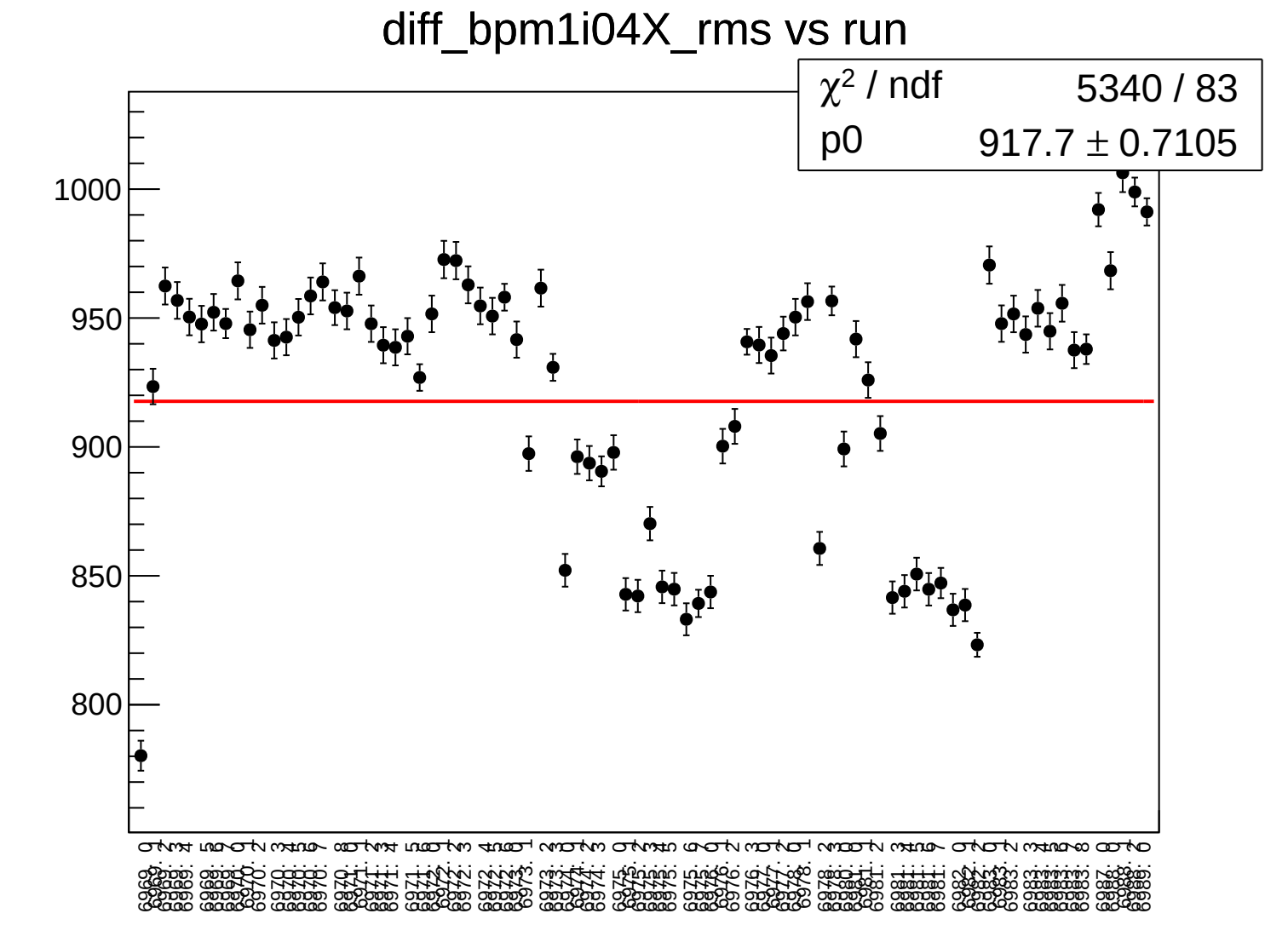

diff_bpm1i02Y_mean vs run
χ² / ndf 155.1 / 83
p0 23.66 ± 0.7603
pull
Entries 84
Mean 71.82
Std Dev 46.84

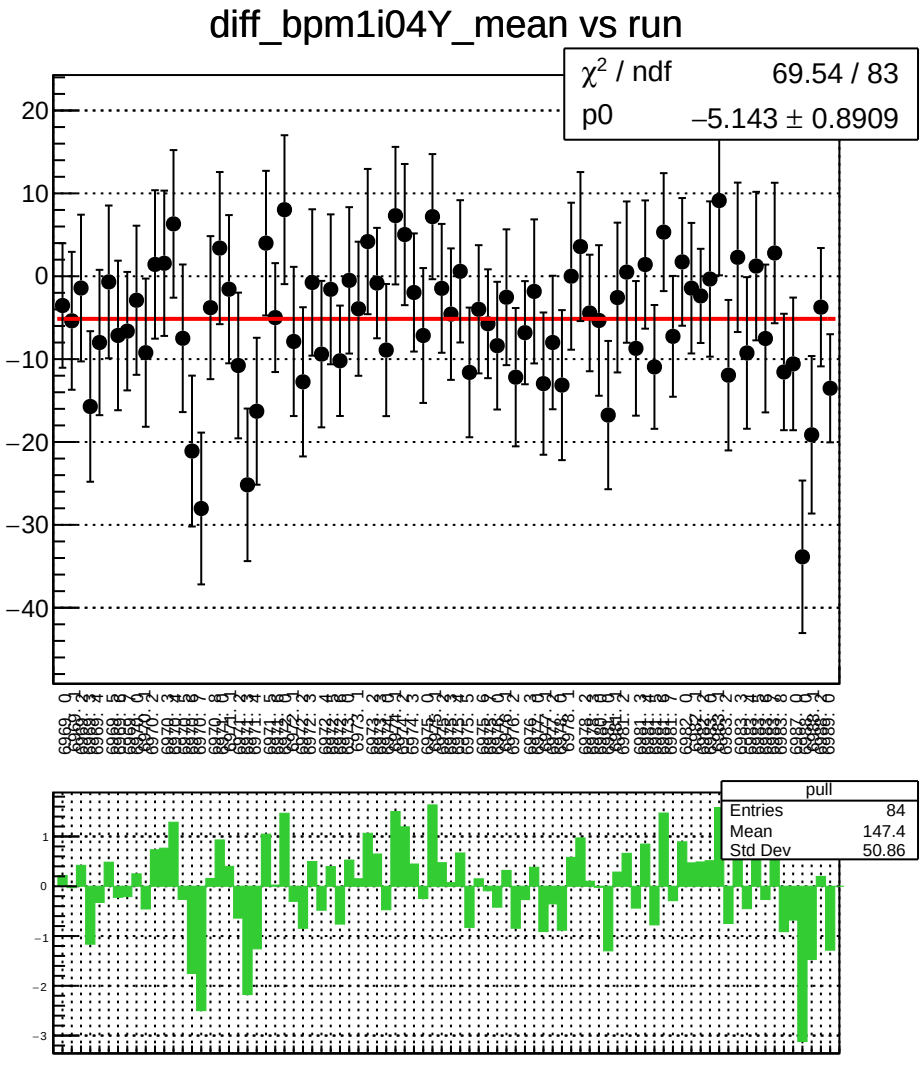

pull1D
Entries 84
Mean −0.07389
Std Dev 1.357

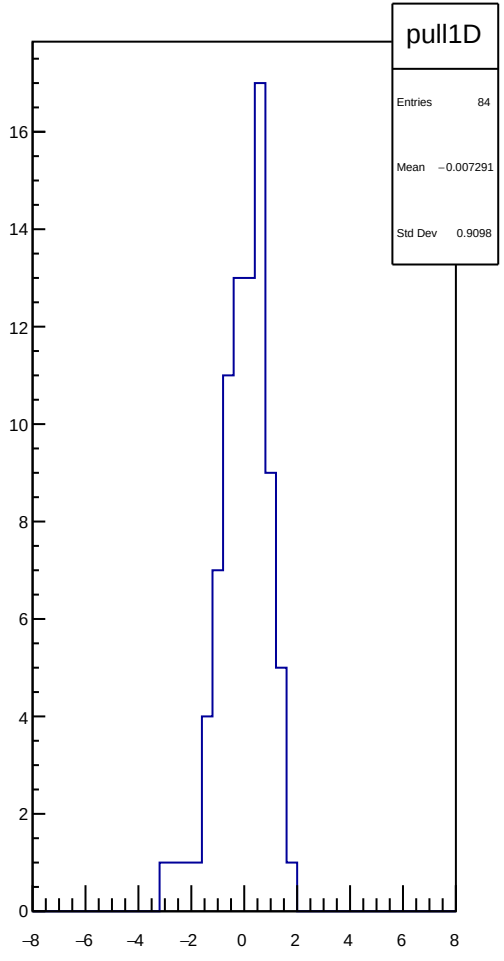

diff_bpm1i02Y_rms vs run
χ² / ndf 1.406e+04 / 83
p0 692.5 ± 0.5376
800
750
700
650
600

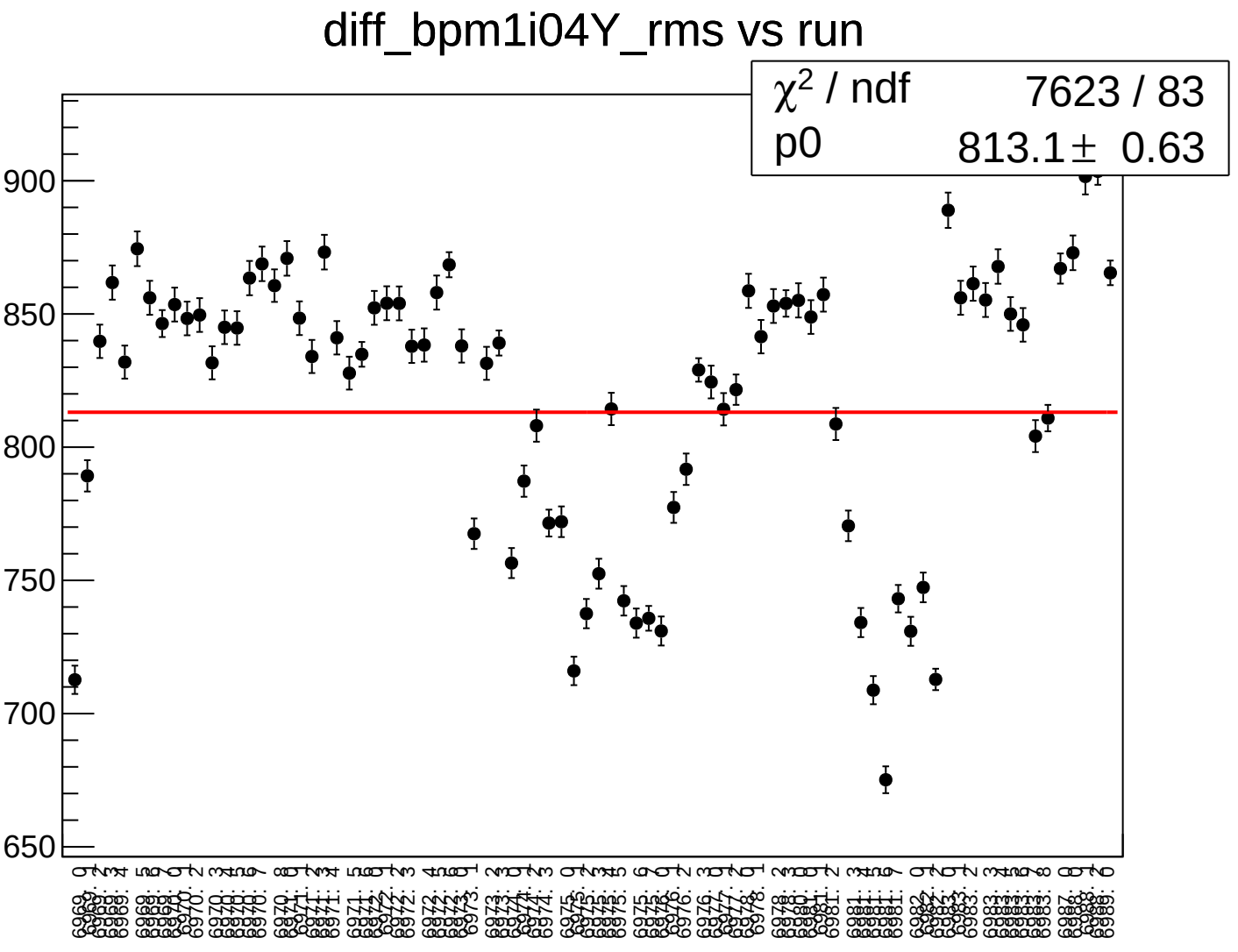

diff_bpm1i04X_mean vs run
χ^2 / ndf 134.4 / 83
p0 21.03 ± 1.005
pull
Entries 84
Mean 16.37
Std Dev 83.83

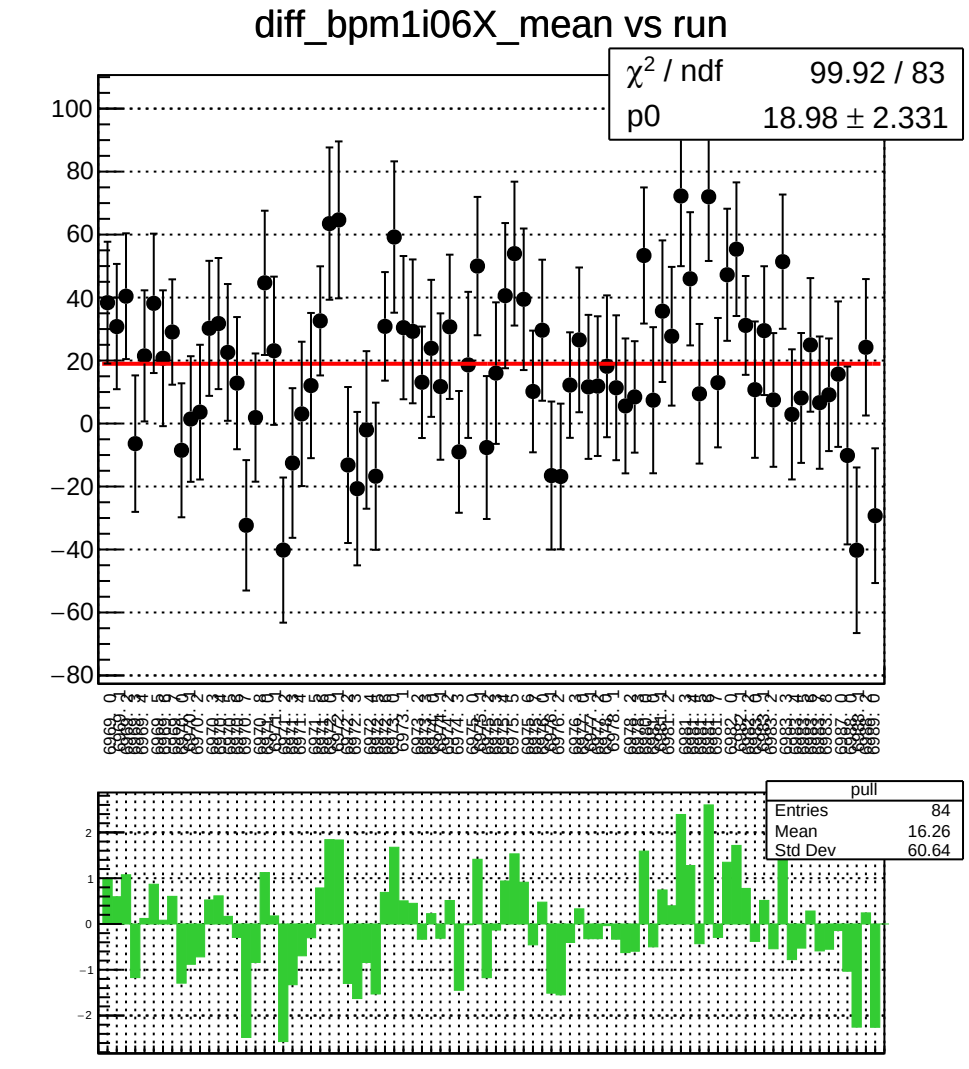

pull1D
Entries 84
Mean −0.02657
Std Dev 1.265

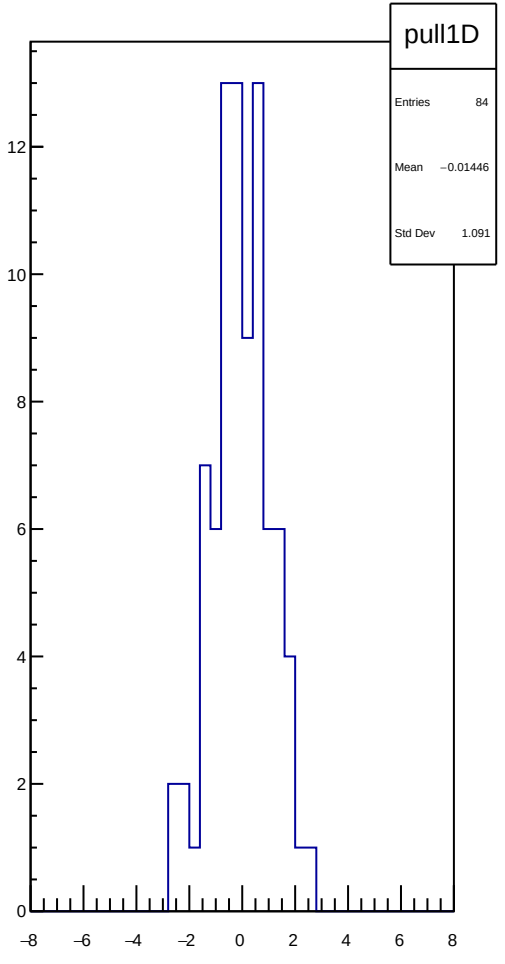

diff_bpm1i04X_rms vs run
χ² / ndf 5340 / 83
p0 917.7 ± 0.7105
1000
950
900
850
800

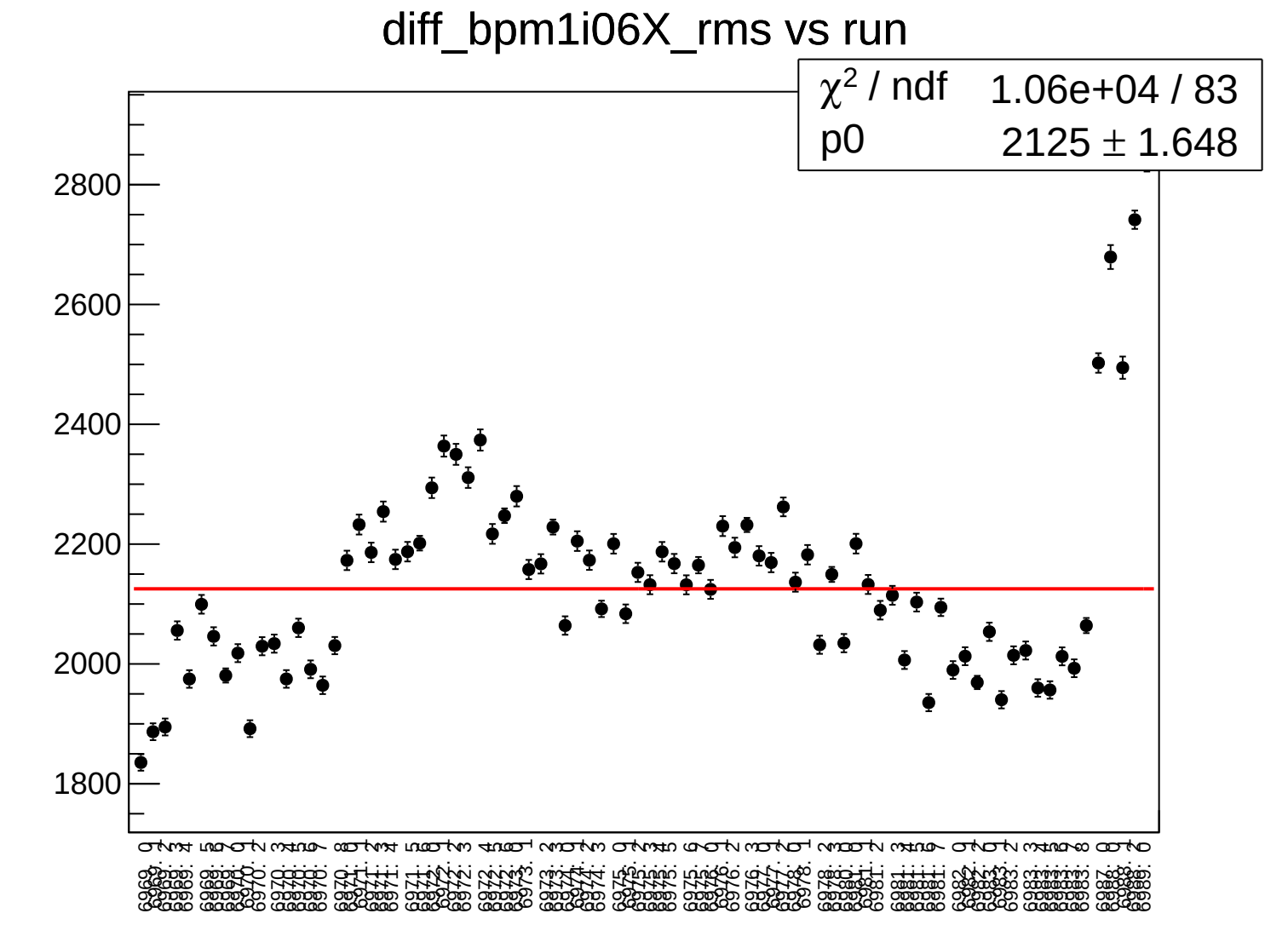

diff_bpm1i04Y_mean vs run
χ² / ndf 69.54 / 83
p0 −5.143 ± 0.8909
pull
Entries 84
Mean 147.4
Std Dev 50.86

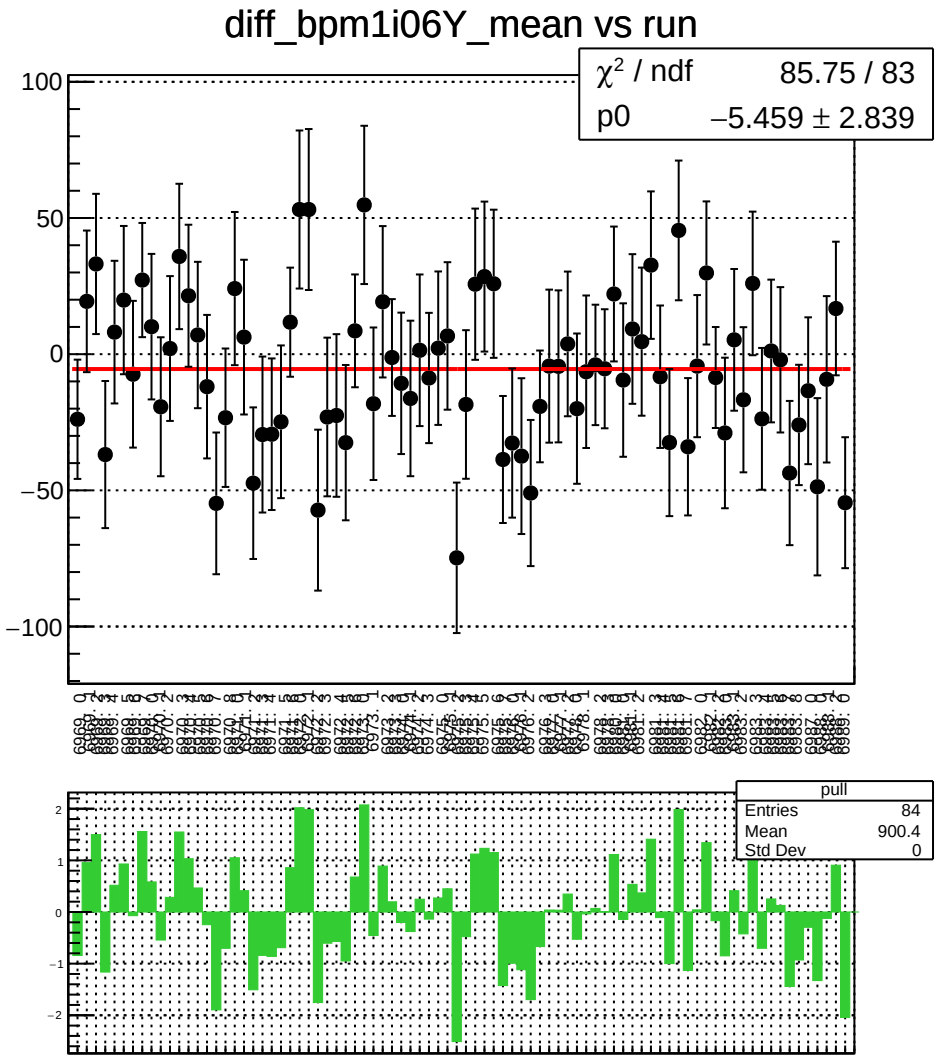

pull1D
Entries 84
Mean −0.007291
Std Dev 0.9098

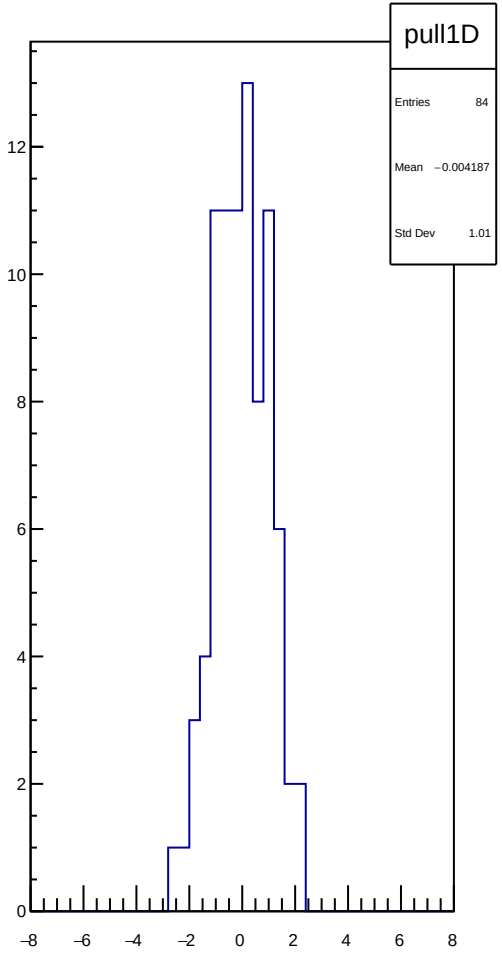

diff_bpm1i04Y_rms vs run
χ² / ndf 7623 / 83
p0 813.1 ± 0.63
900
850
800
750
700
650

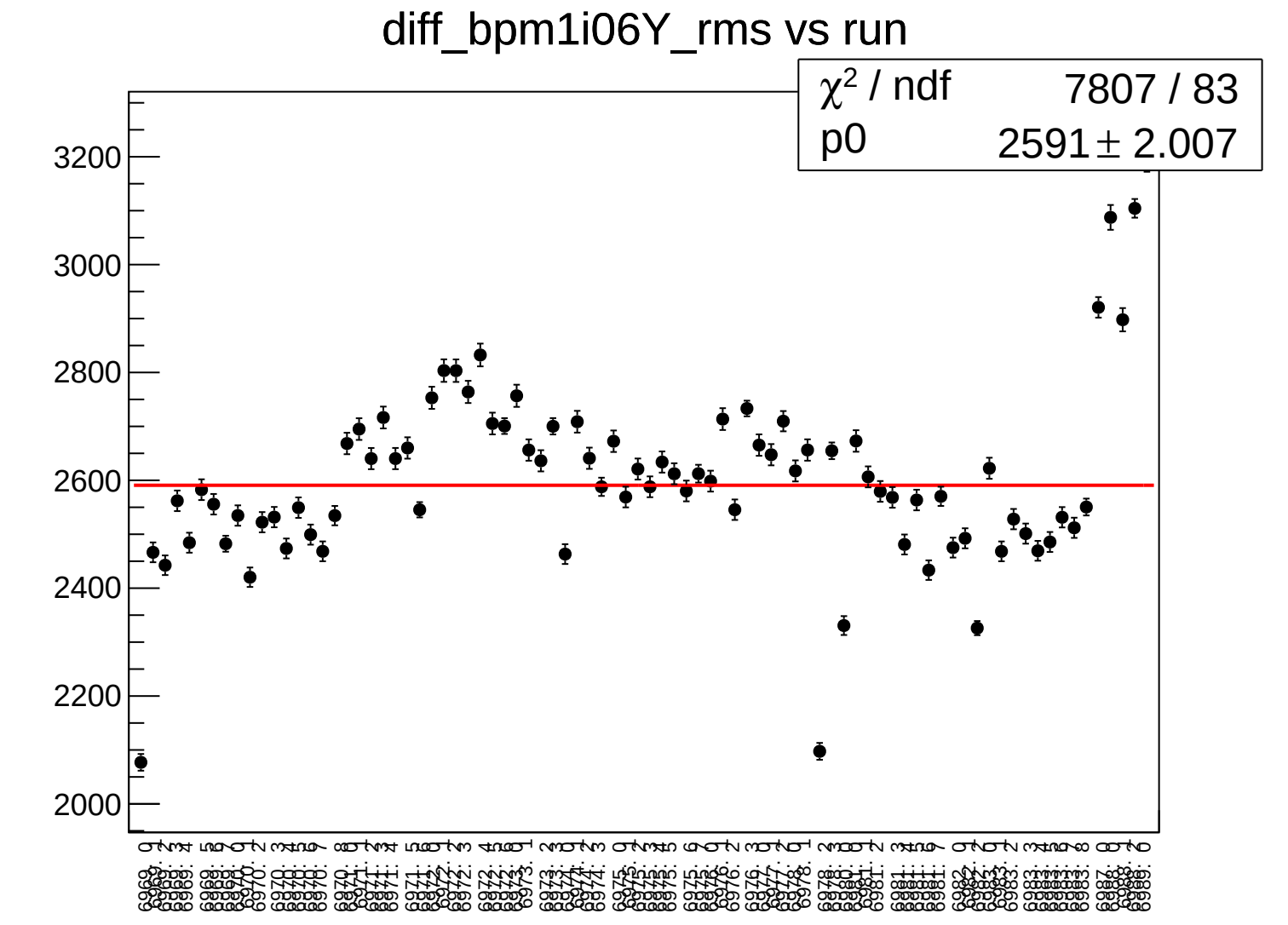

diff_bpm1i06X_mean vs run
χ² / ndf 99.92 / 83
p0 18.98 ± 2.331
pull
Entries 84
Mean 16.26
Std Dev 60.64

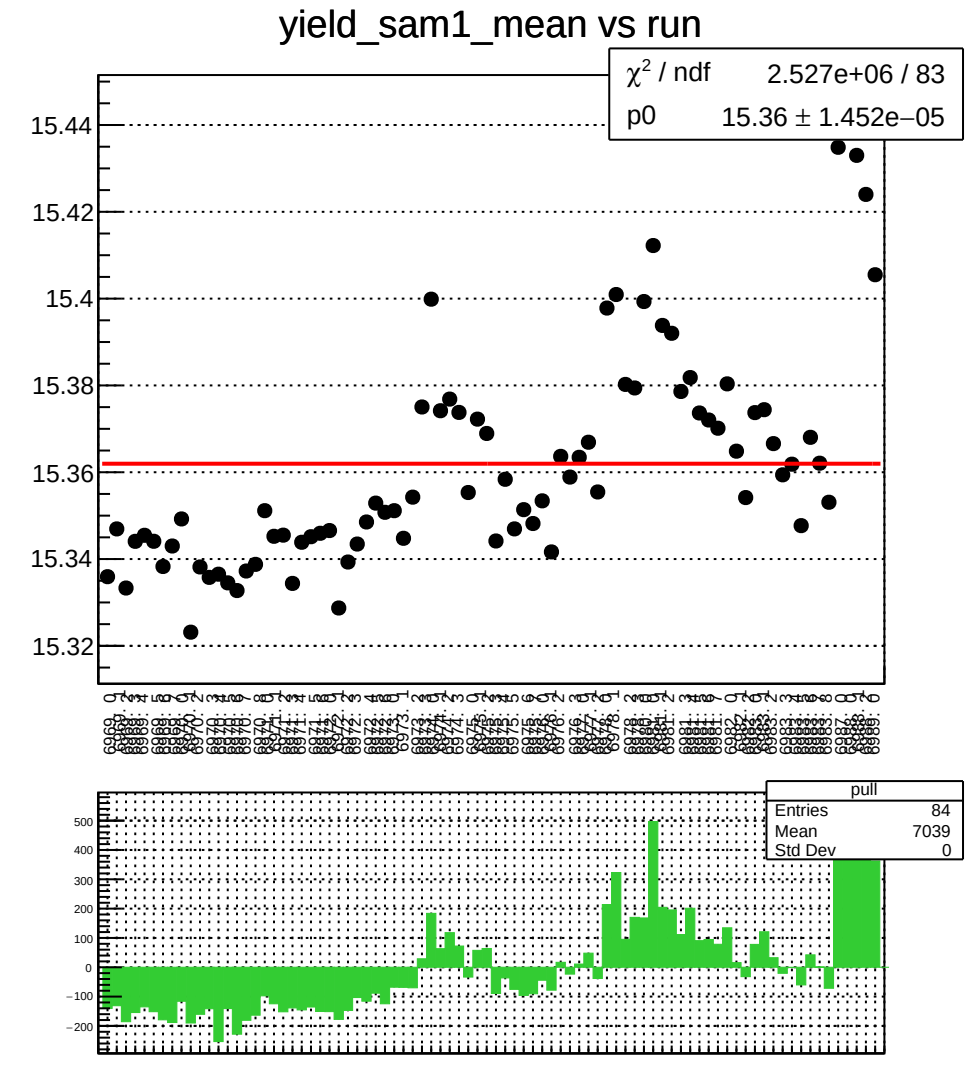

pull1D
Entries 84
Mean −0.01446
Std Dev 1.091

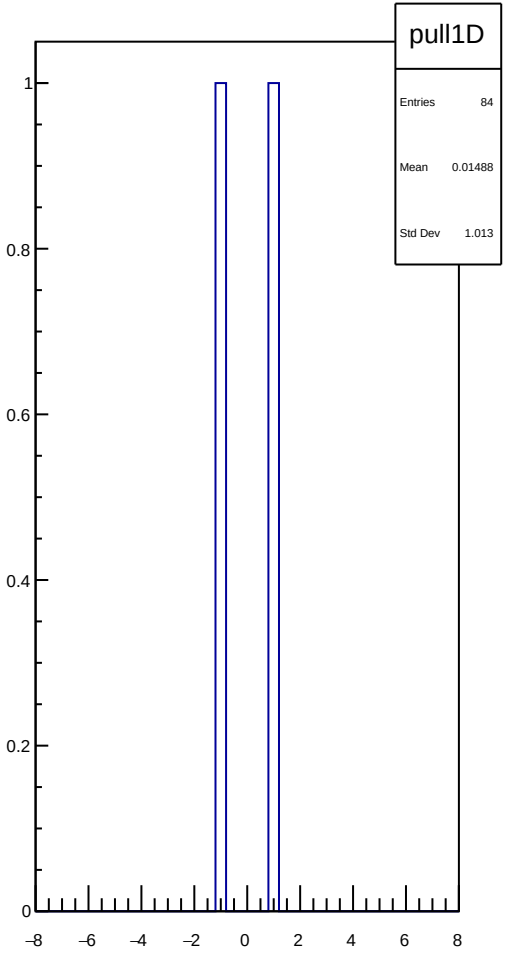

diff_bpm1i06X_rms vs run
χ² / ndf 1.06e+04 / 83
p0 2125 ± 1.648
2800
2600
2400
2200
2000
1800

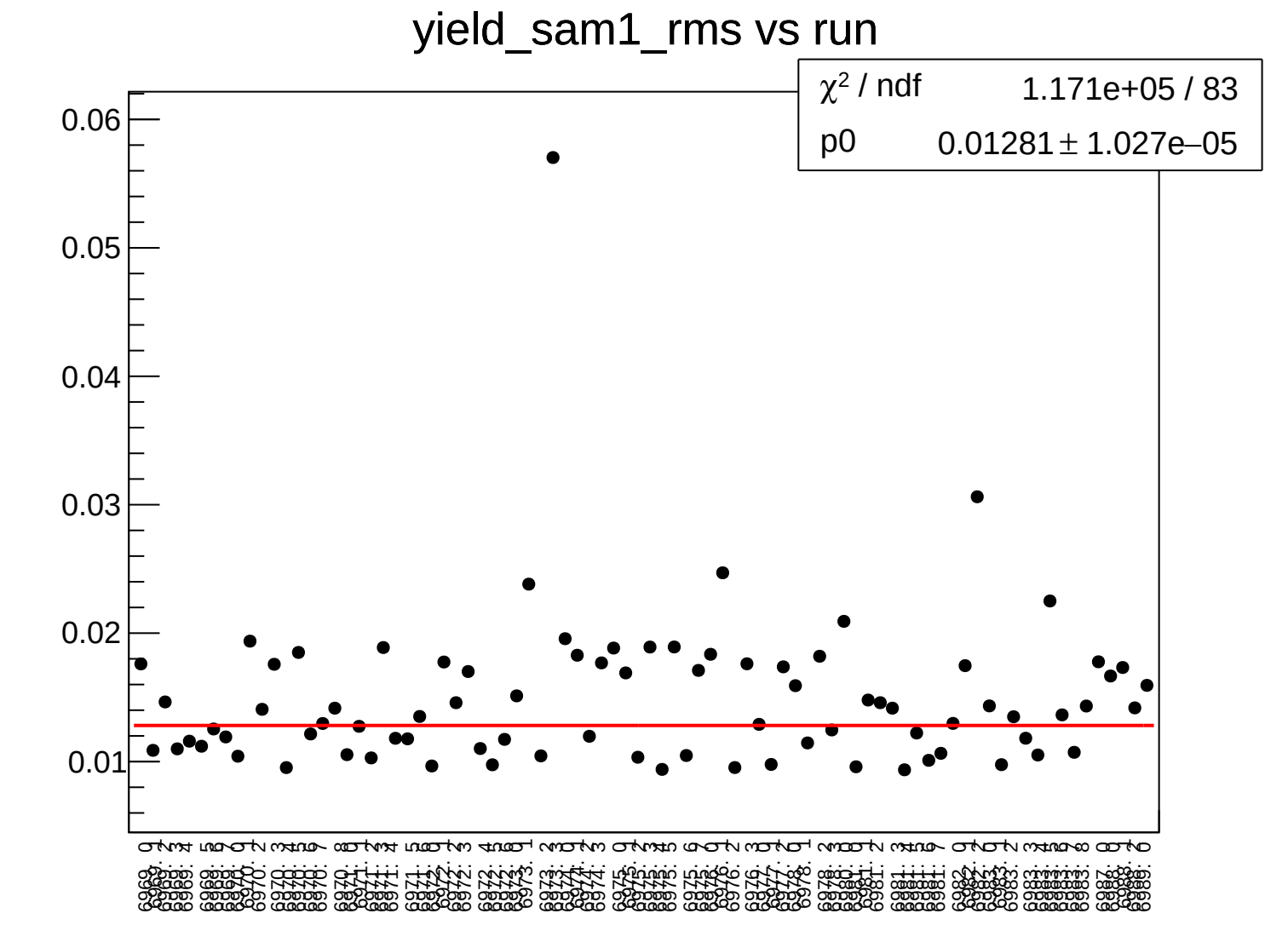

diff_bpm1i06Y_mean vs run
χ² / ndf 85.75 / 83
p0 −5.459 ± 2.839
100
50
0
−50
−100
pull
Entries 84
Mean 900.4
Std Dev 0
2
1
0
−1
−2

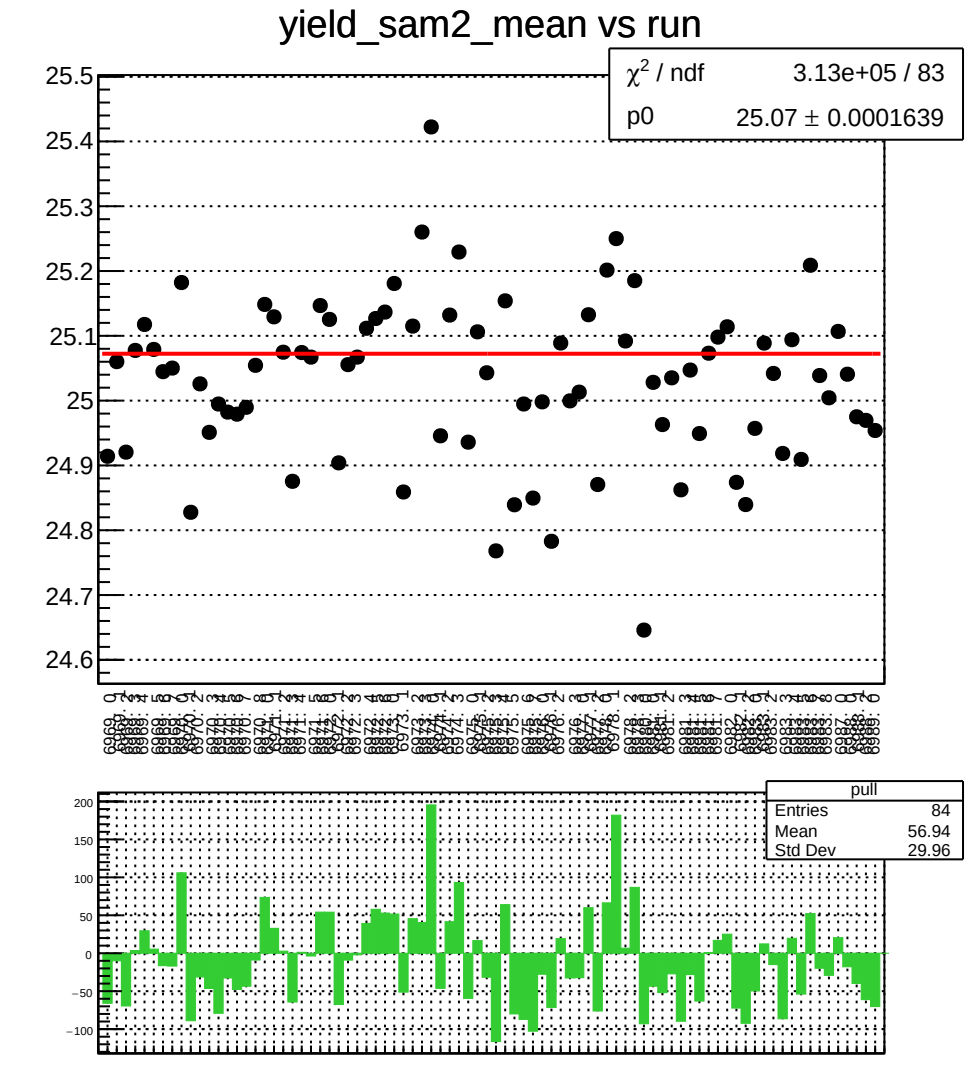

pull1D
Entries 84
Mean −0.004187
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

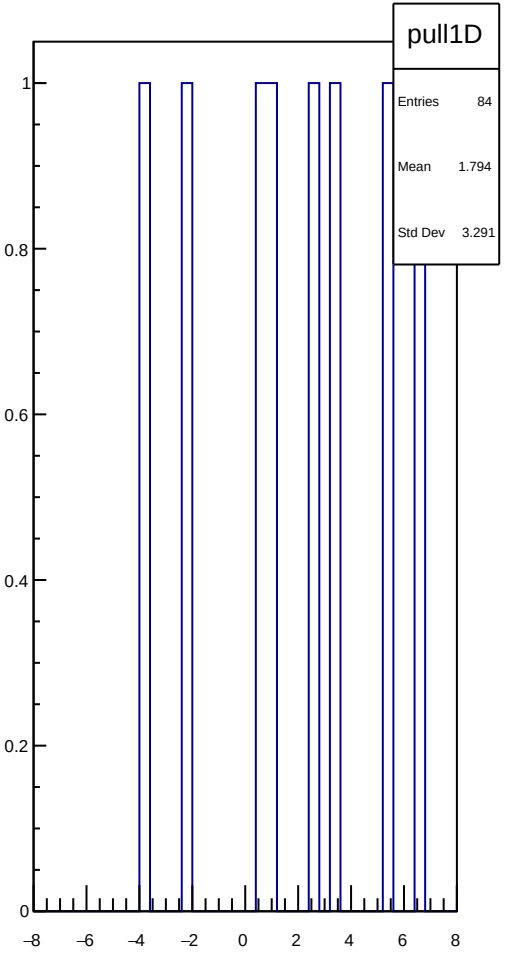

diff_bpm1i06Y_rms vs run
χ² / ndf 7807 / 83
p0 2591 ± 2.007
3200
3000
2800
2600
2400
2200
2000

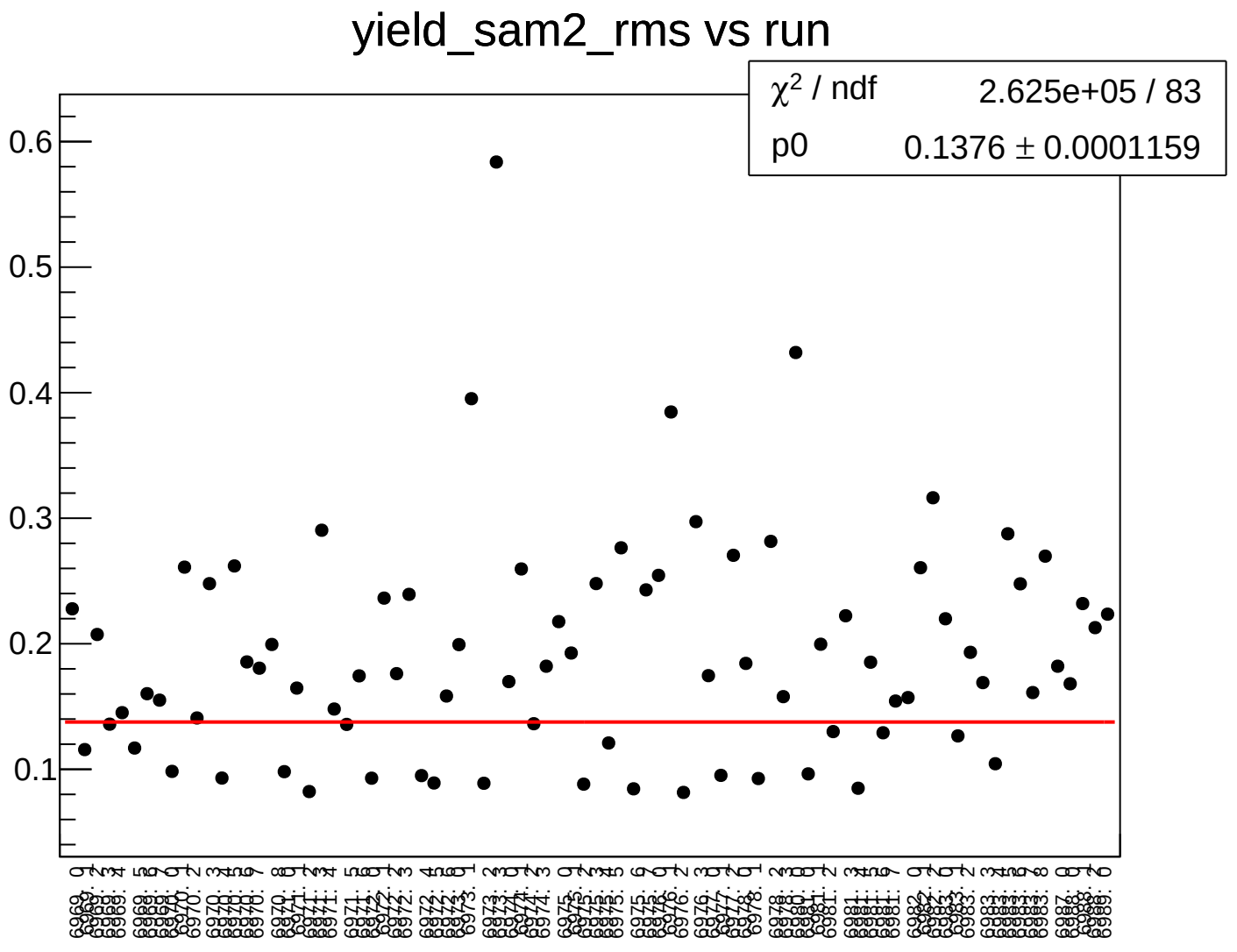

yield_sam1_mean vs run
χ² / ndf 2.527e+06 / 83
p0 15.36 ± 1.452e−05
15.44
15.42
15.4
15.38
15.36
15.34
15.32
pull
Entries 84
Mean 7039
Std Dev 0
500
400
300
200
100
0
−100
−200

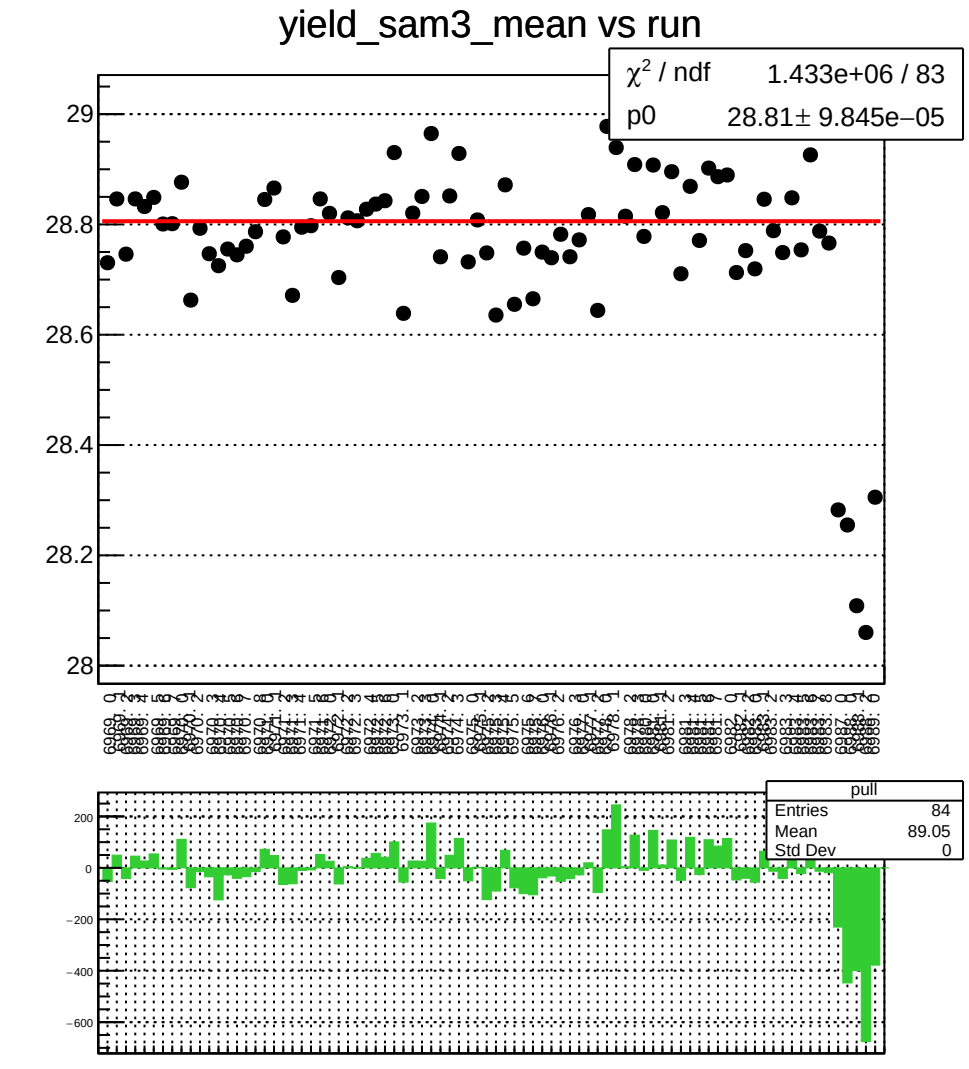

pull1D
Entries 84
Mean 0.01488
Std Dev 1.013
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

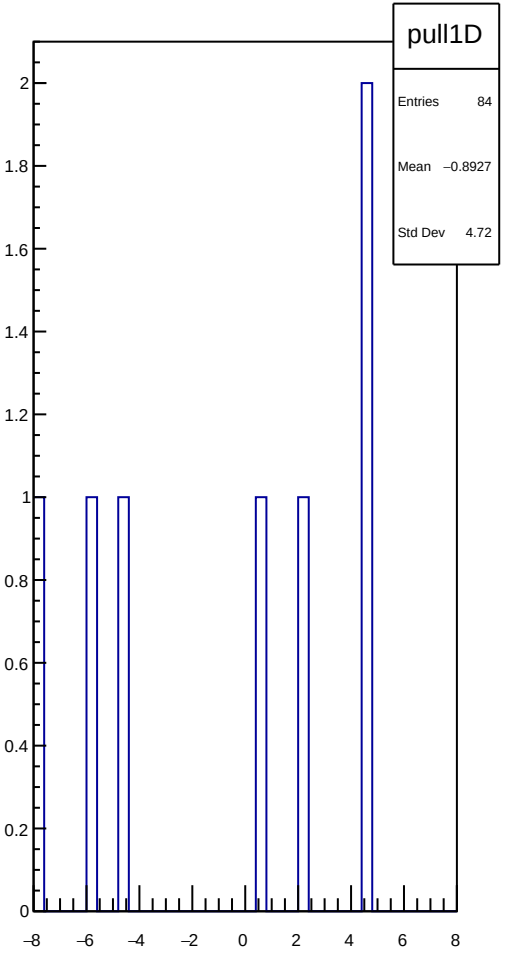

yield_sam1_rms vs run
χ² / ndf 1.171e+05 / 83
p0 0.01281 ± 1.027e–05
0.06
0.05
0.04
0.03
0.02
0.01

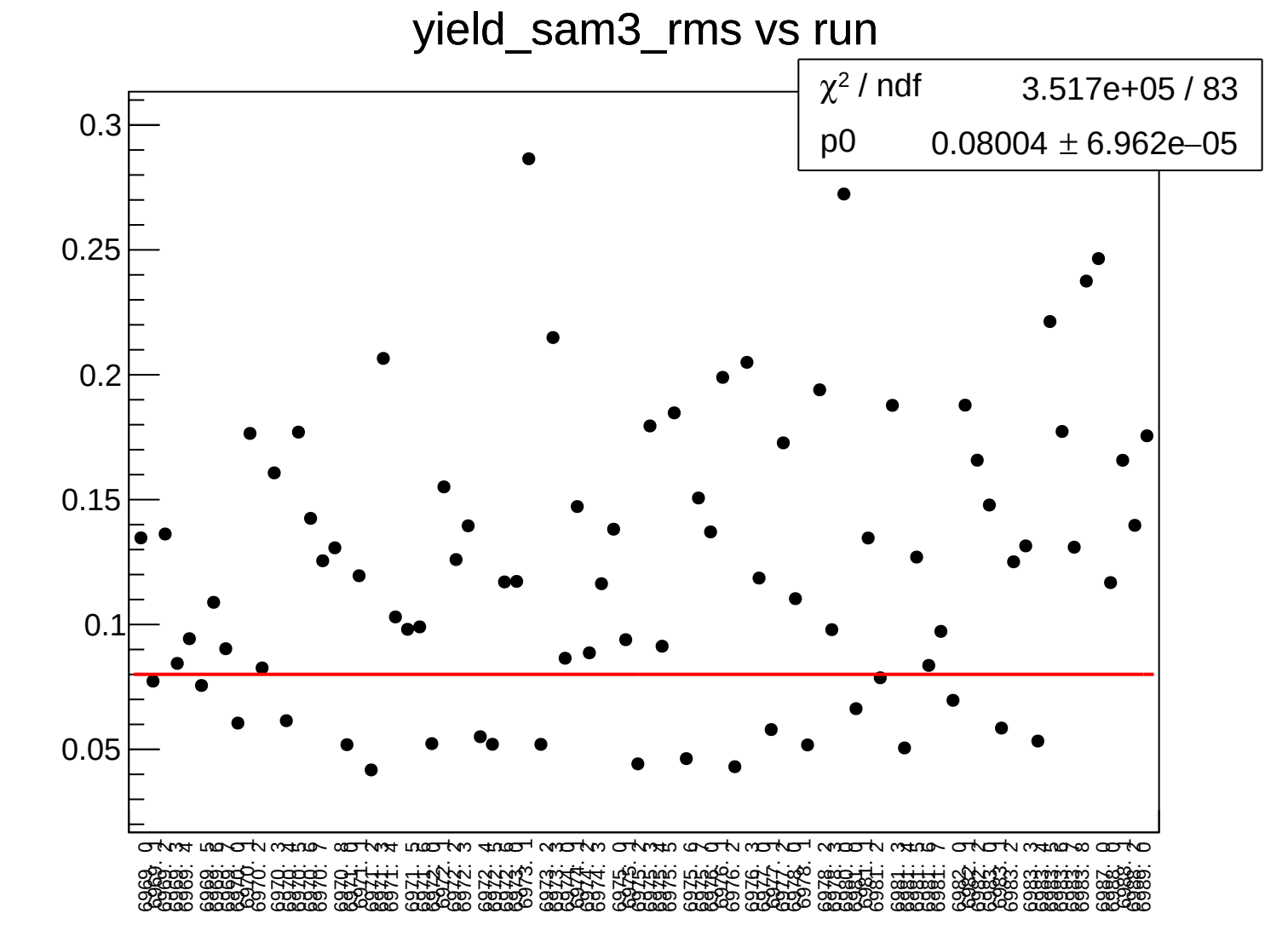

yield_sam2_mean vs run
χ² / ndf 3.13e+05 / 83
p0 25.07 ± 0.0001639
pull
Entries 84
Mean 56.94
Std Dev 29.96

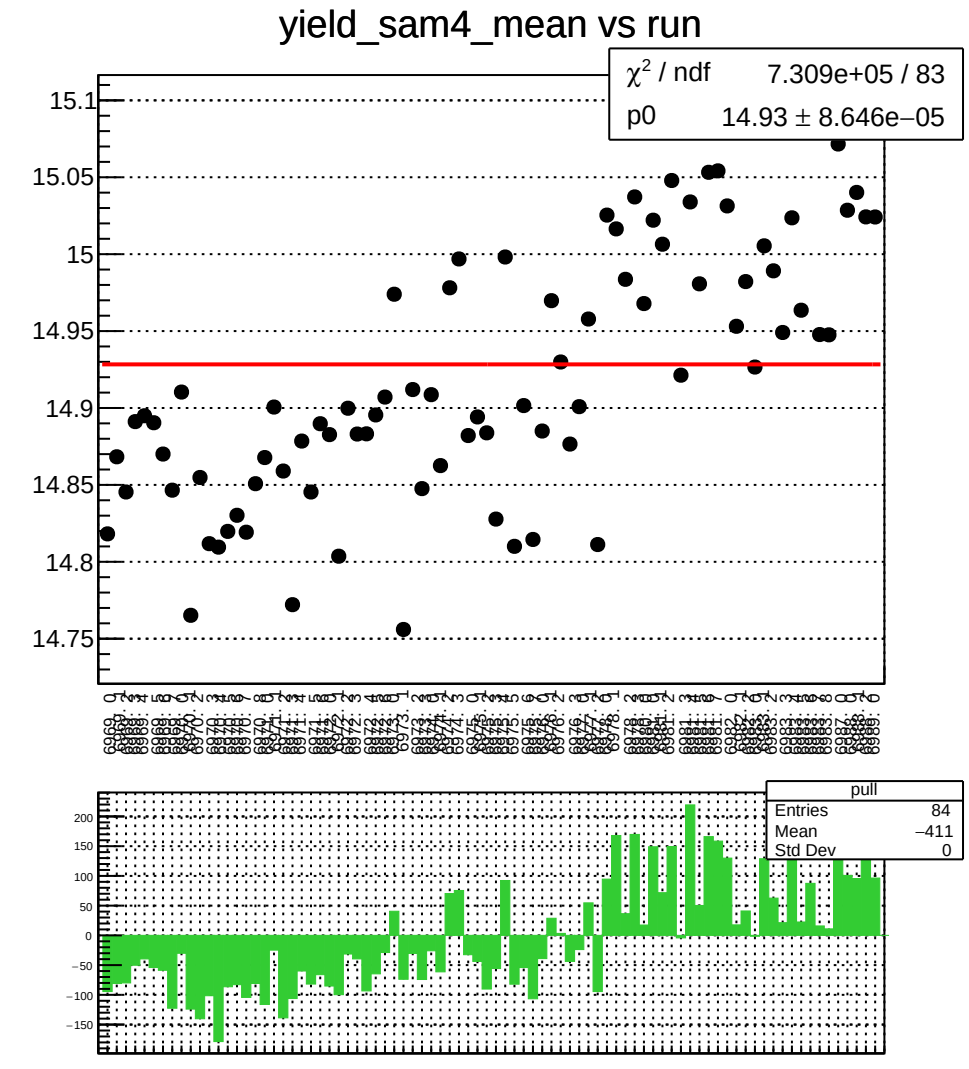

pull1D
Entries 84
Mean 1.794
Std Dev 3.291

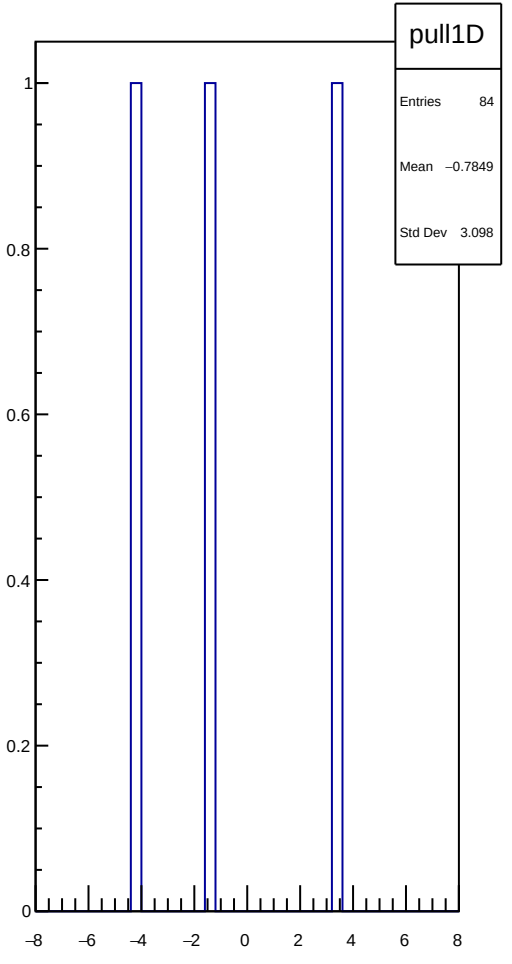

yield_sam2_rms vs run
χ² / ndf 2.625e+05 / 83
p0 0.1376 ± 0.0001159
0.6
0.5
0.4
0.3
0.2
0.1

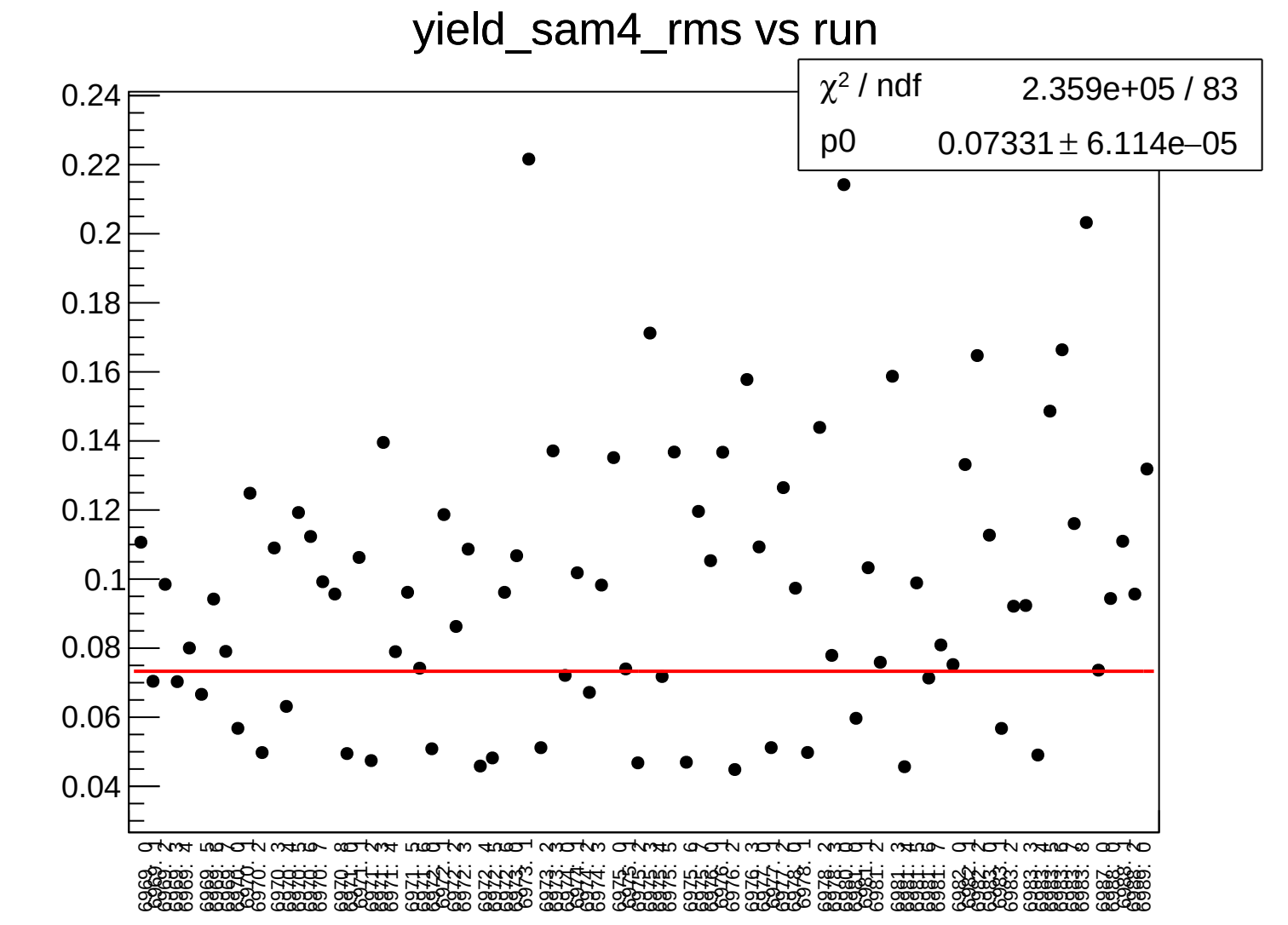

yield_sam3_mean vs run
χ² / ndf 1.433e+06 / 83
p0 28.81± 9.845e−05
29
28.8
28.6
28.4
28.2
28
pull
Entries 84
Mean 89.05
Std Dev 0
200
0
−200
−400
−600

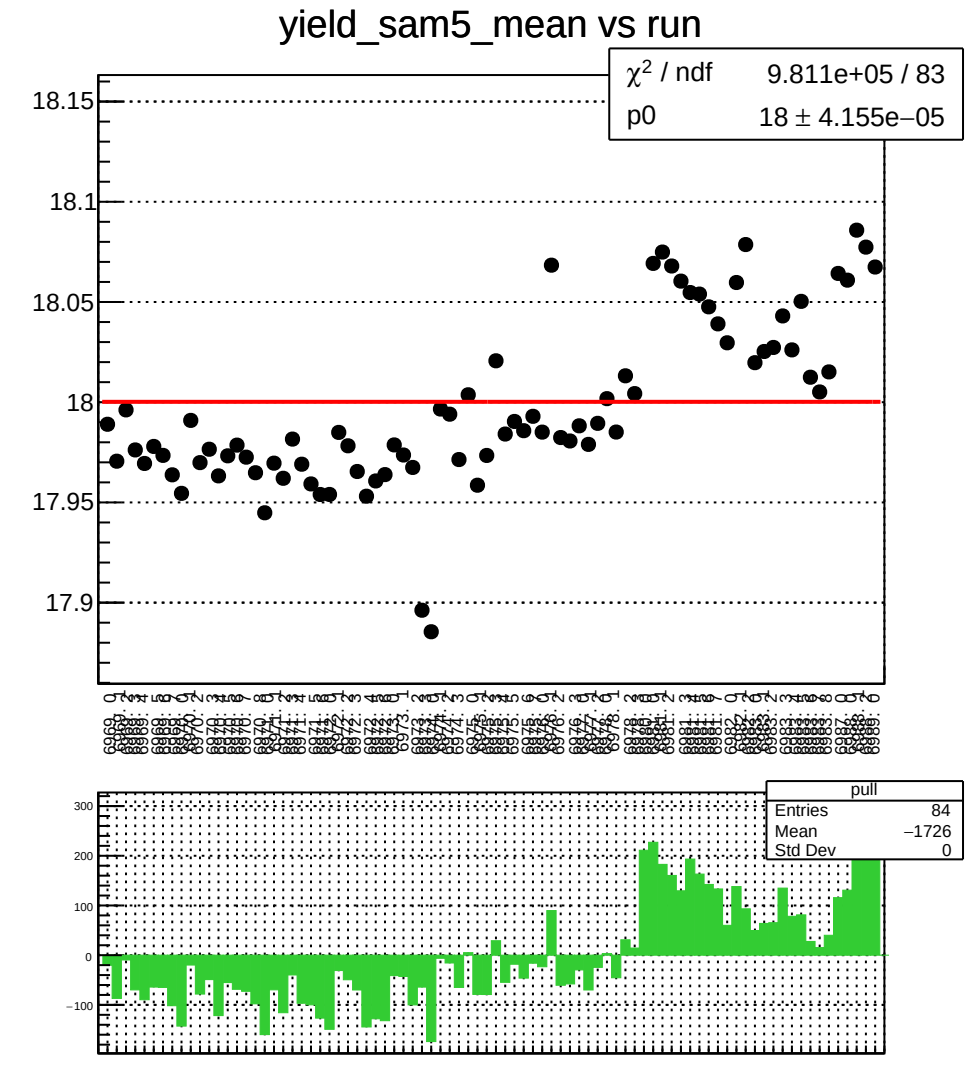

pull1D
Entries 84
Mean −0.8927
Std Dev 4.72
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

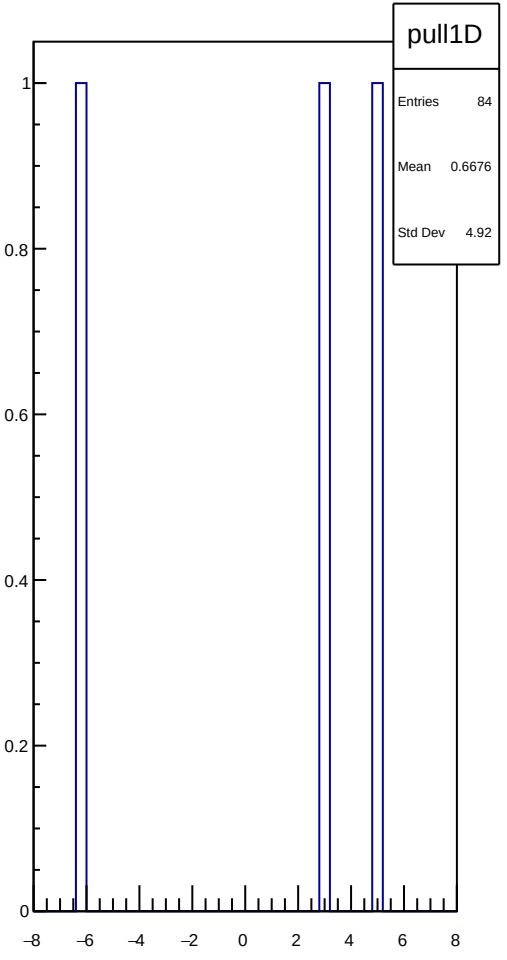

yield_sam3_rms vs run
χ² / ndf 3.517e+05 / 83
p0 0.08004 ± 6.962e−05
0.3
0.25
0.2
0.15
0.1
0.05

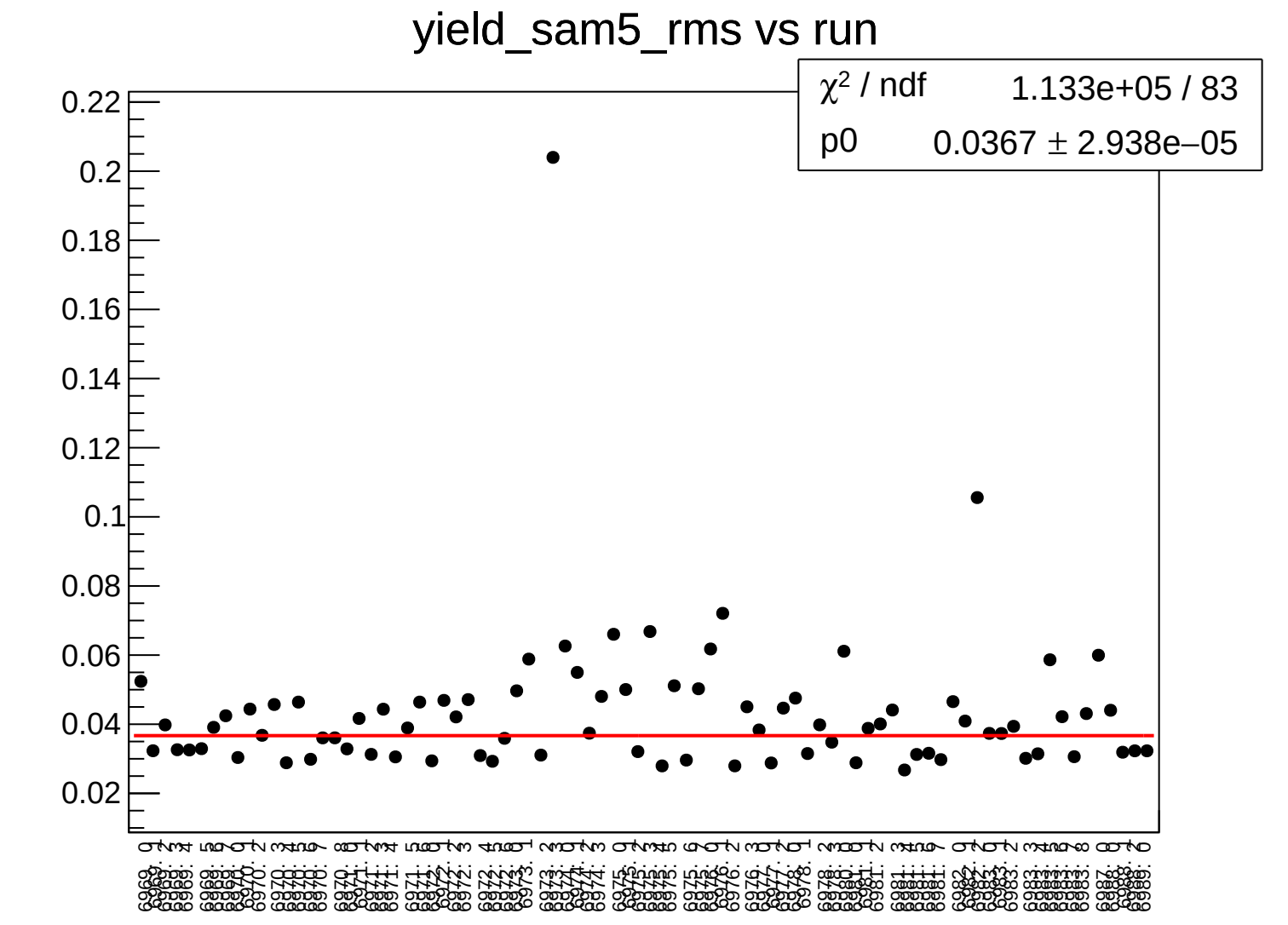

yield_sam4_mean vs run
χ² / ndf 7.309e+05 / 83
p0 14.93 ± 8.646e−05
15.1
15.05
15
14.95
14.9
14.85
14.8
14.75
pull
Entries 84
Mean −411
Std Dev 0
200
150
100
50
0
−50
−100
−150

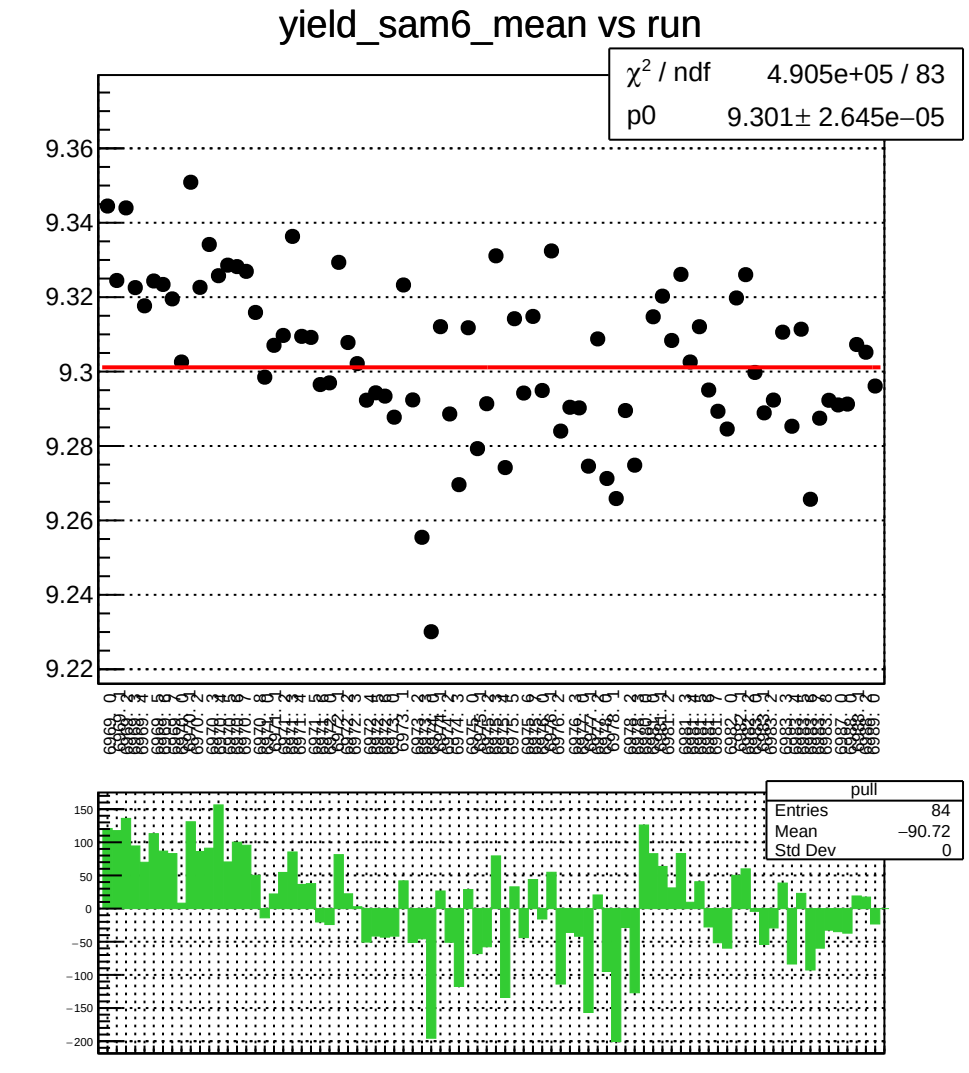

pull1D
Entries 84
Mean −0.7849
Std Dev 3.098
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

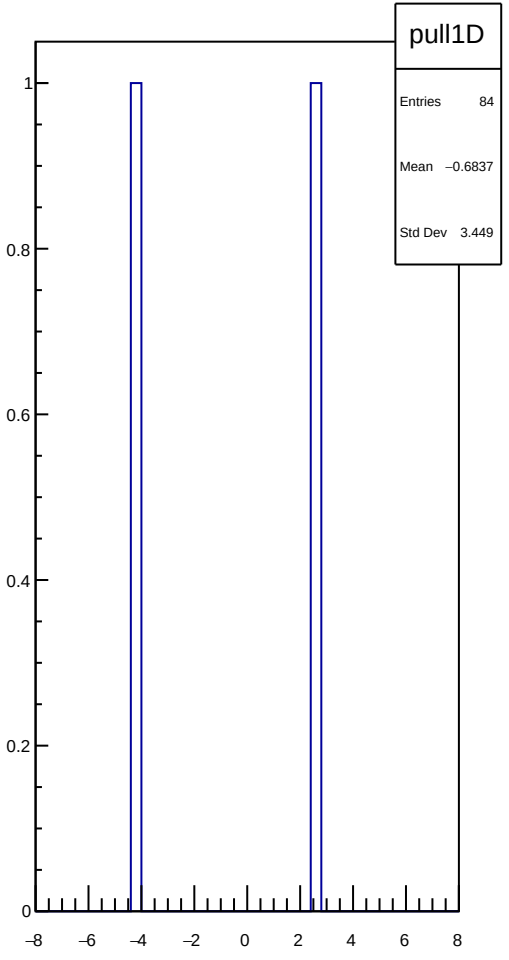

yield_sam4_rms vs run
χ² / ndf 2.359e+05 / 83
p0 0.07331 ± 6.114e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

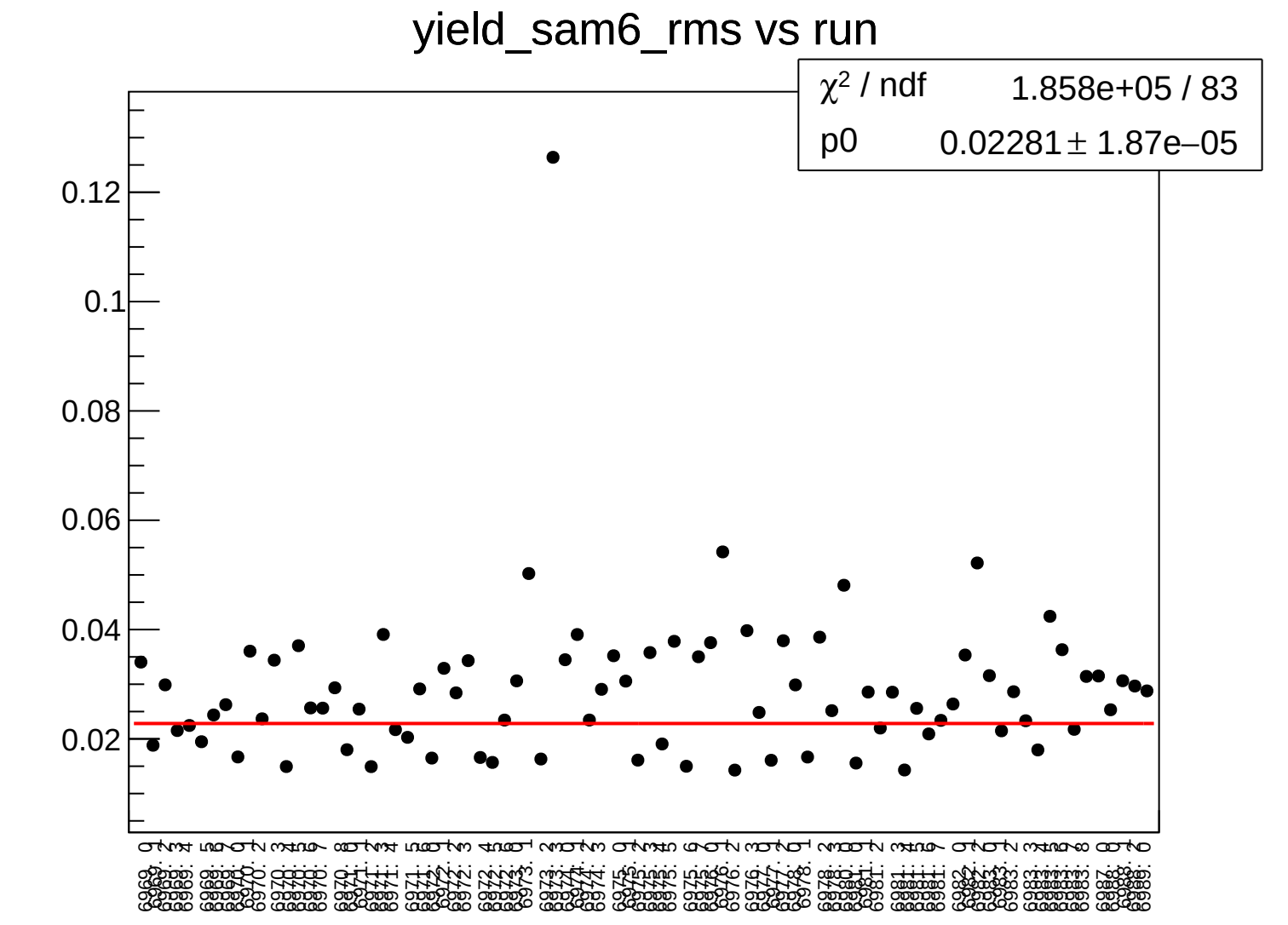

yield_sam5_mean vs run
χ² / ndf 9.811e+05 / 83
p0 18 ± 4.155e−05
18.15
18.1
18.05
18
17.95
17.9
pull
Entries 84
Mean −1726
Std Dev 0
300
200
100
0
−100

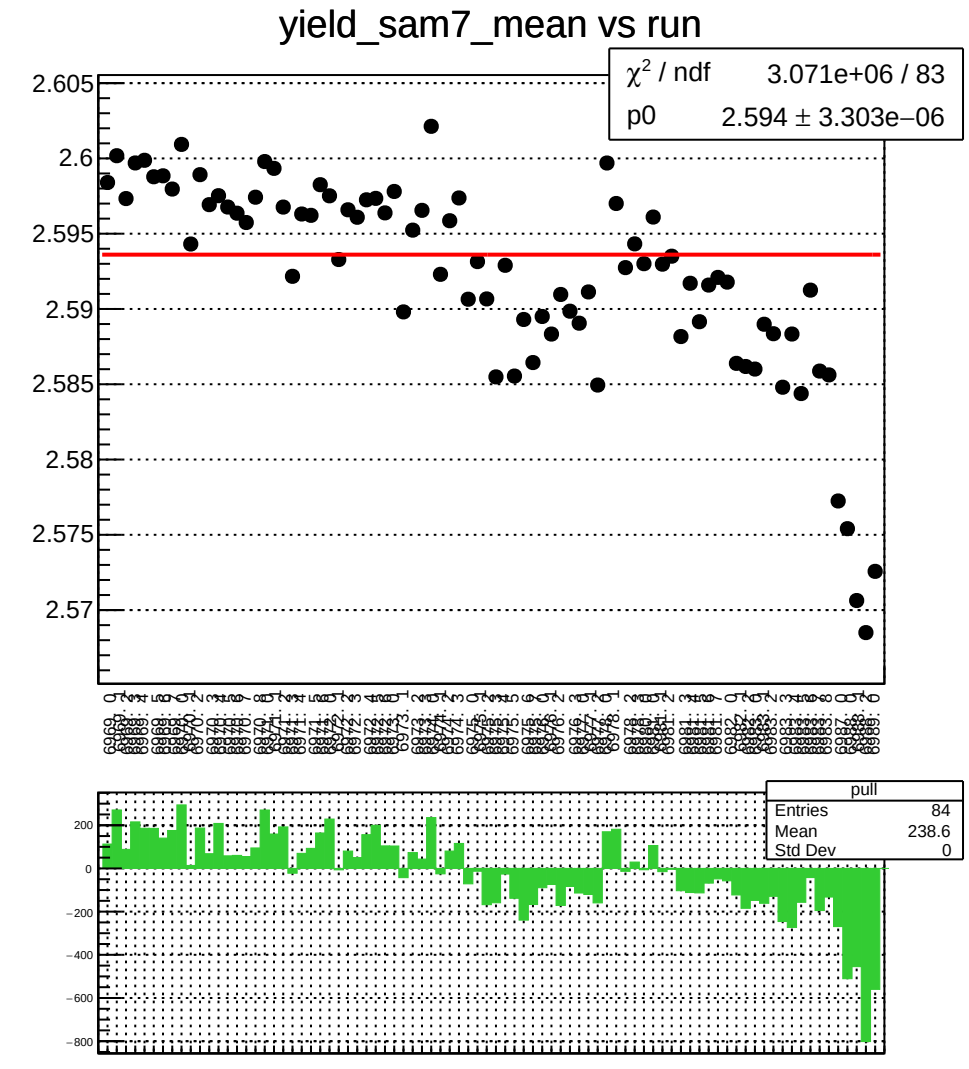

pull1D
Entries 84
Mean 0.6676
Std Dev 4.92
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

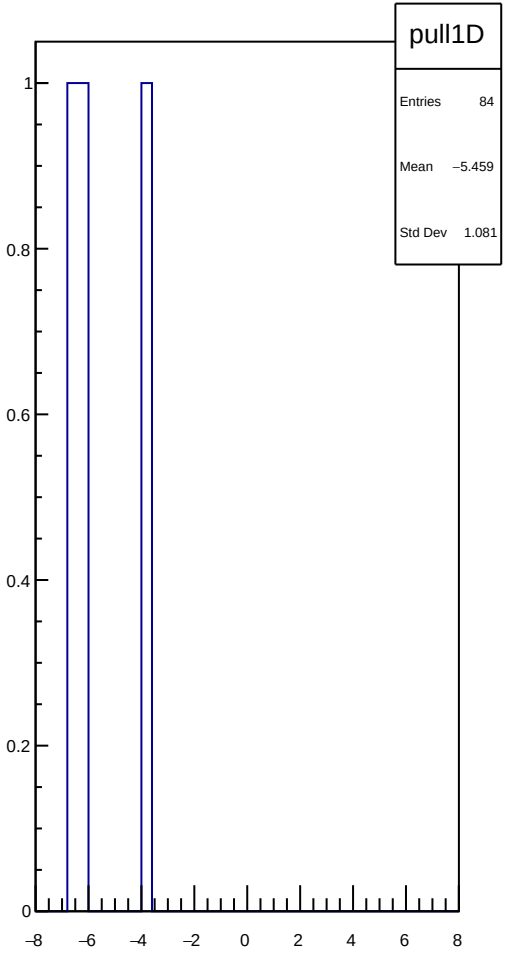

yield_sam5_rms vs run
χ² / ndf 1.133e+05 / 83
p0 0.0367 ± 2.938e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

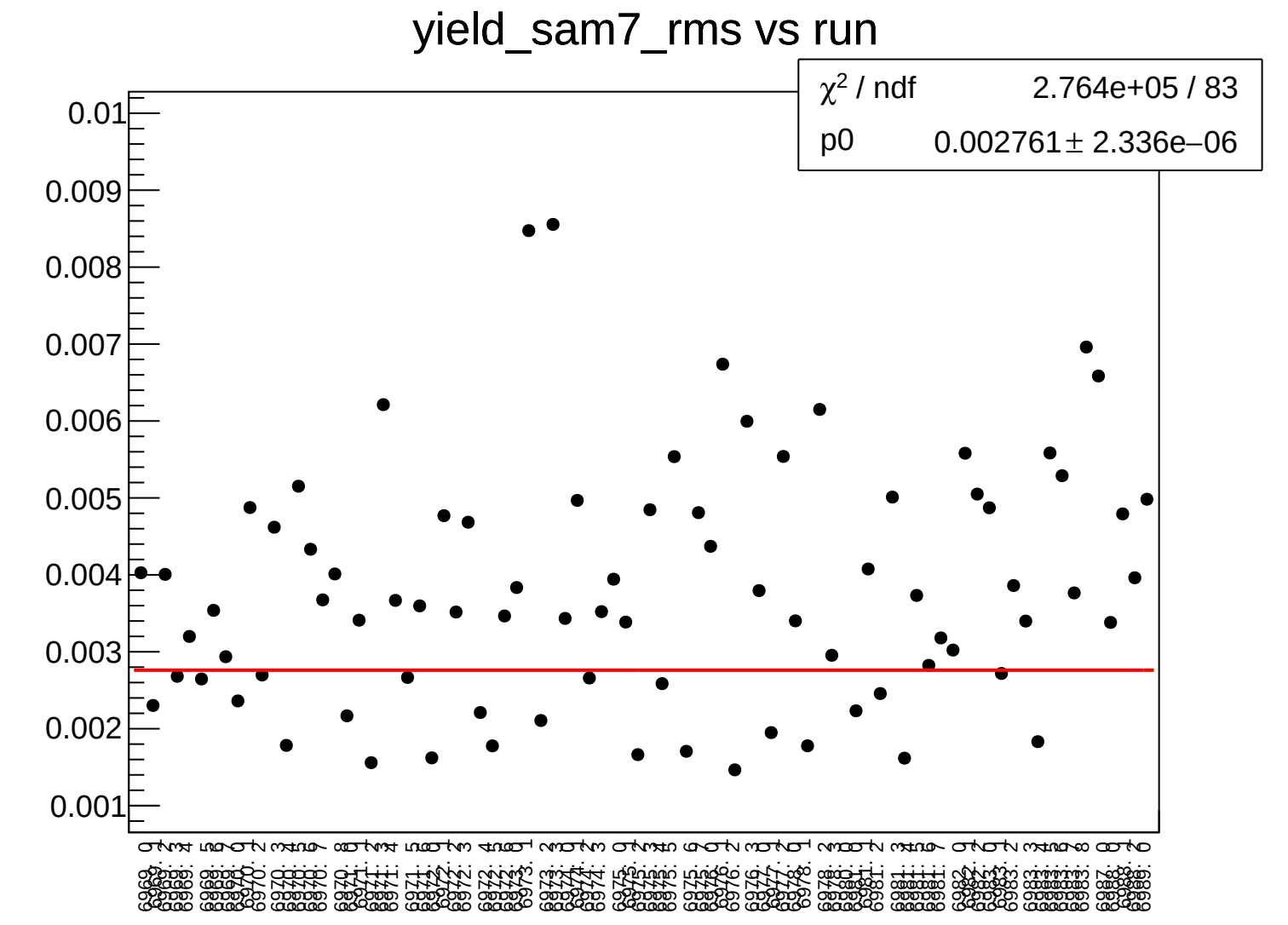

yield_sam6_mean vs run
χ² / ndf 4.905e+05 / 83
p0 9.301± 2.645e−05
9.36
9.34
9.32
9.3
9.28
9.26
9.24
9.22
pull
Entries 84
Mean −90.72
Std Dev 0
150
100
50
0
−50
−100
−150
−200

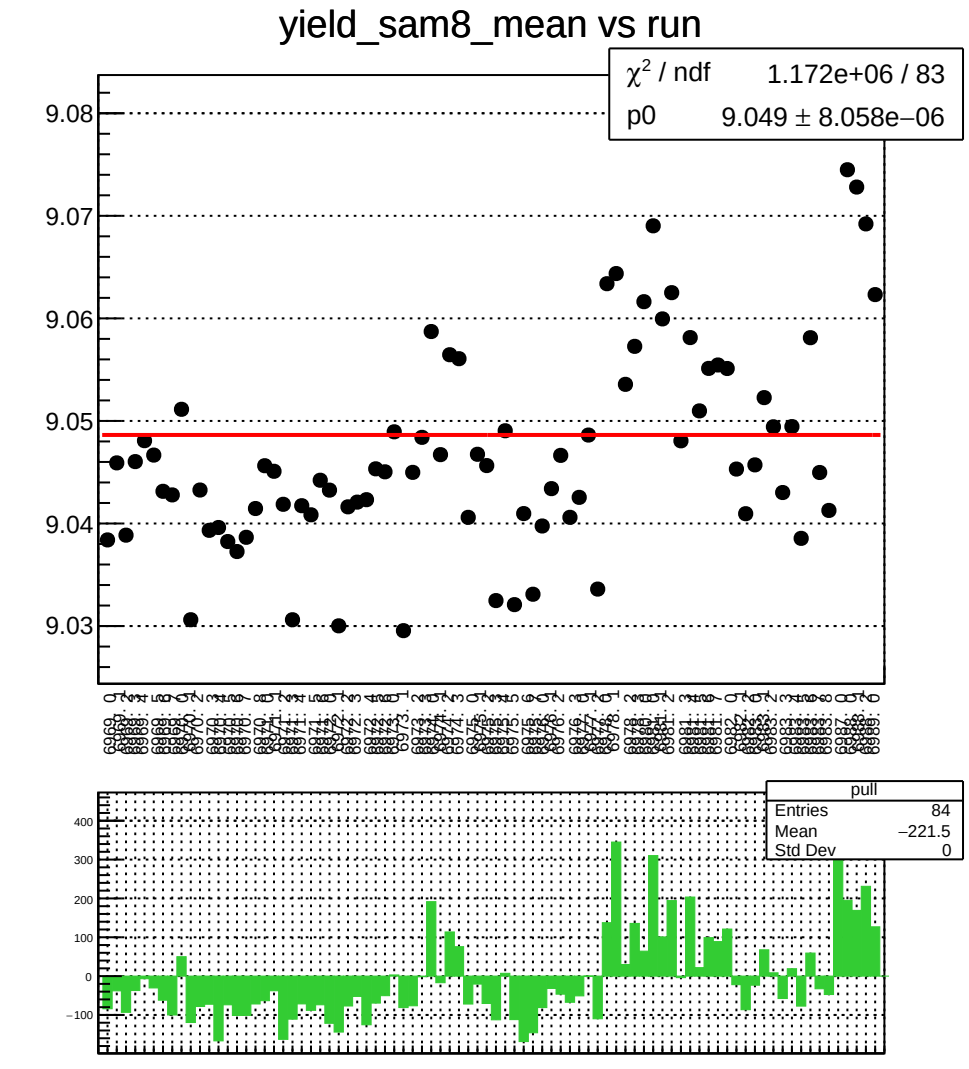

pull1D
Entries 84
Mean −0.6837
Std Dev 3.449
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

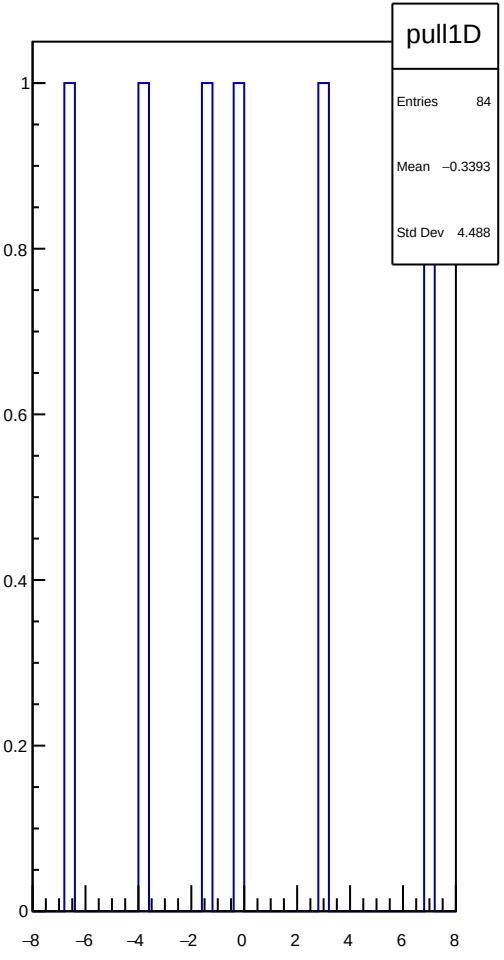

yield_sam6_rms vs run
χ² / ndf 1.858e+05 / 83
p0 0.02281 ± 1.87e−05
0.12
0.1
0.08
0.06
0.04
0.02

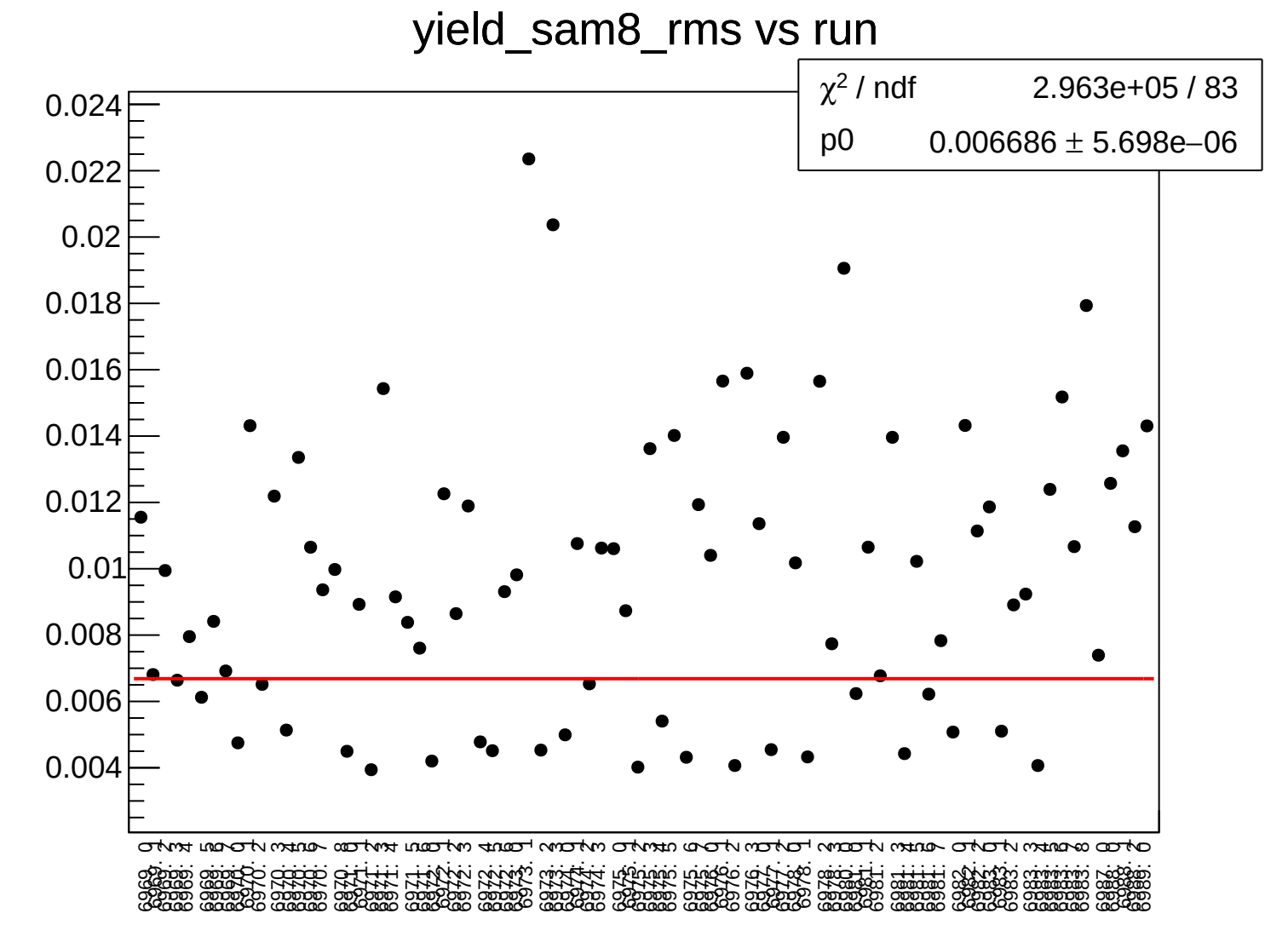

yield_sam7_mean vs run
χ² / ndf 3.071e+06 / 83
p0 2.594 ± 3.303e−06
2.605
2.6
2.595
2.59
2.585
2.58
2.575
2.57
pull
Entries 84
Mean 238.6
Std Dev 0
200
0
−200
−400
−600
−800

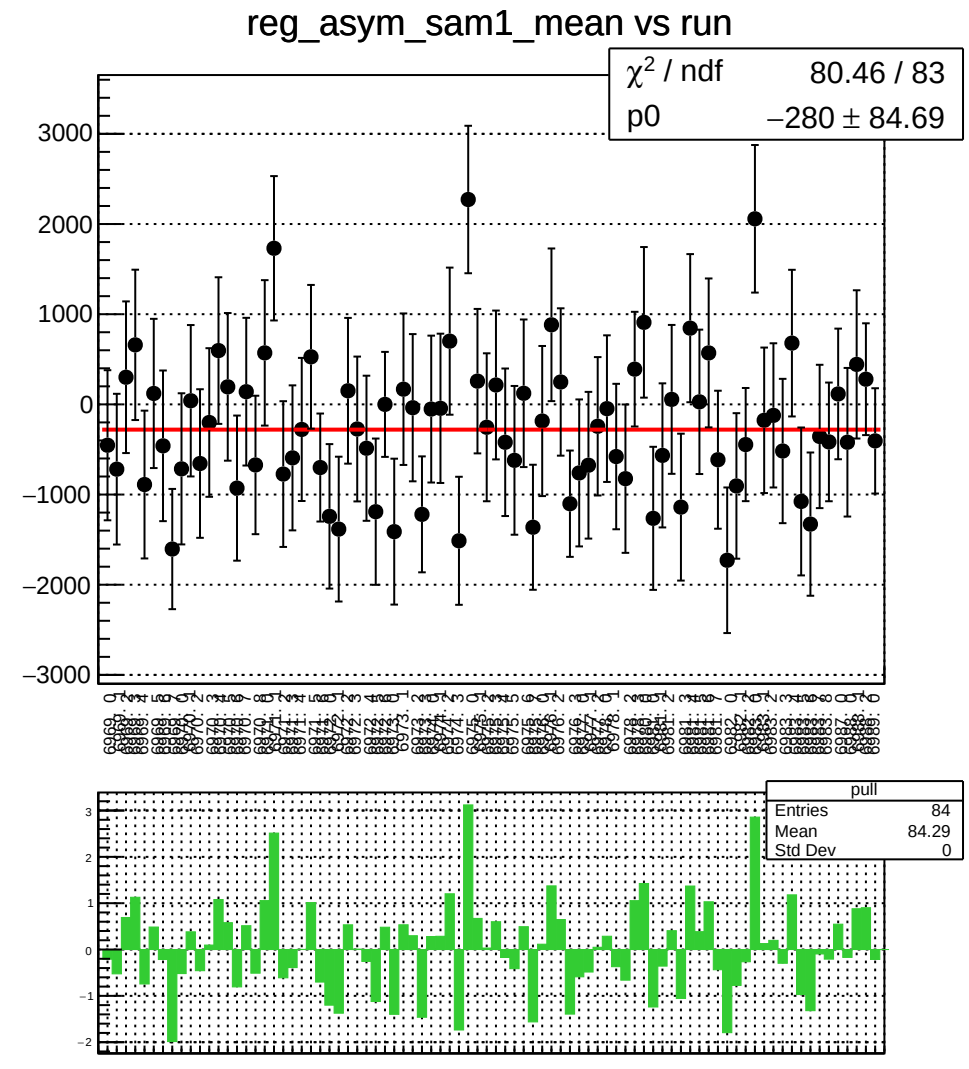

pull1D
Entries 84
Mean −5.459
Std Dev 1.081
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

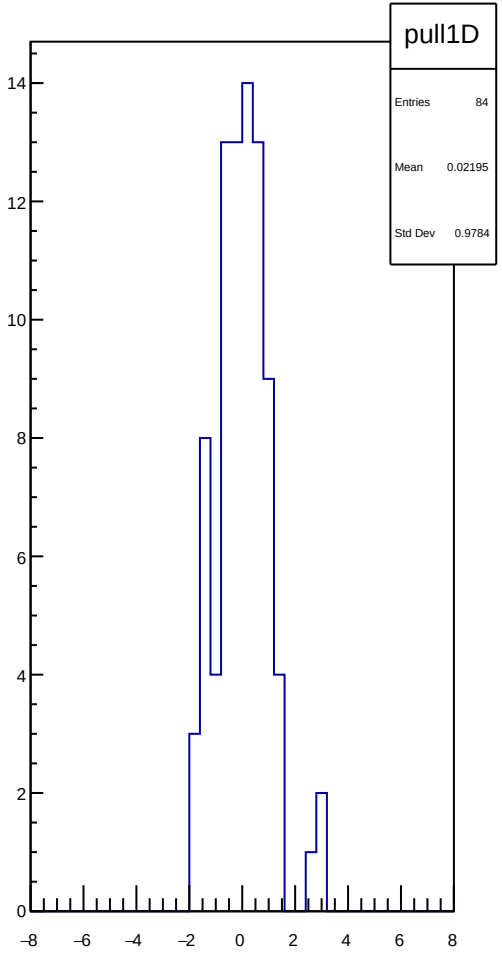

yield_sam7_rms vs run
χ^2 / ndf 2.764e+05 / 83
p0 0.002761 ± 2.336e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

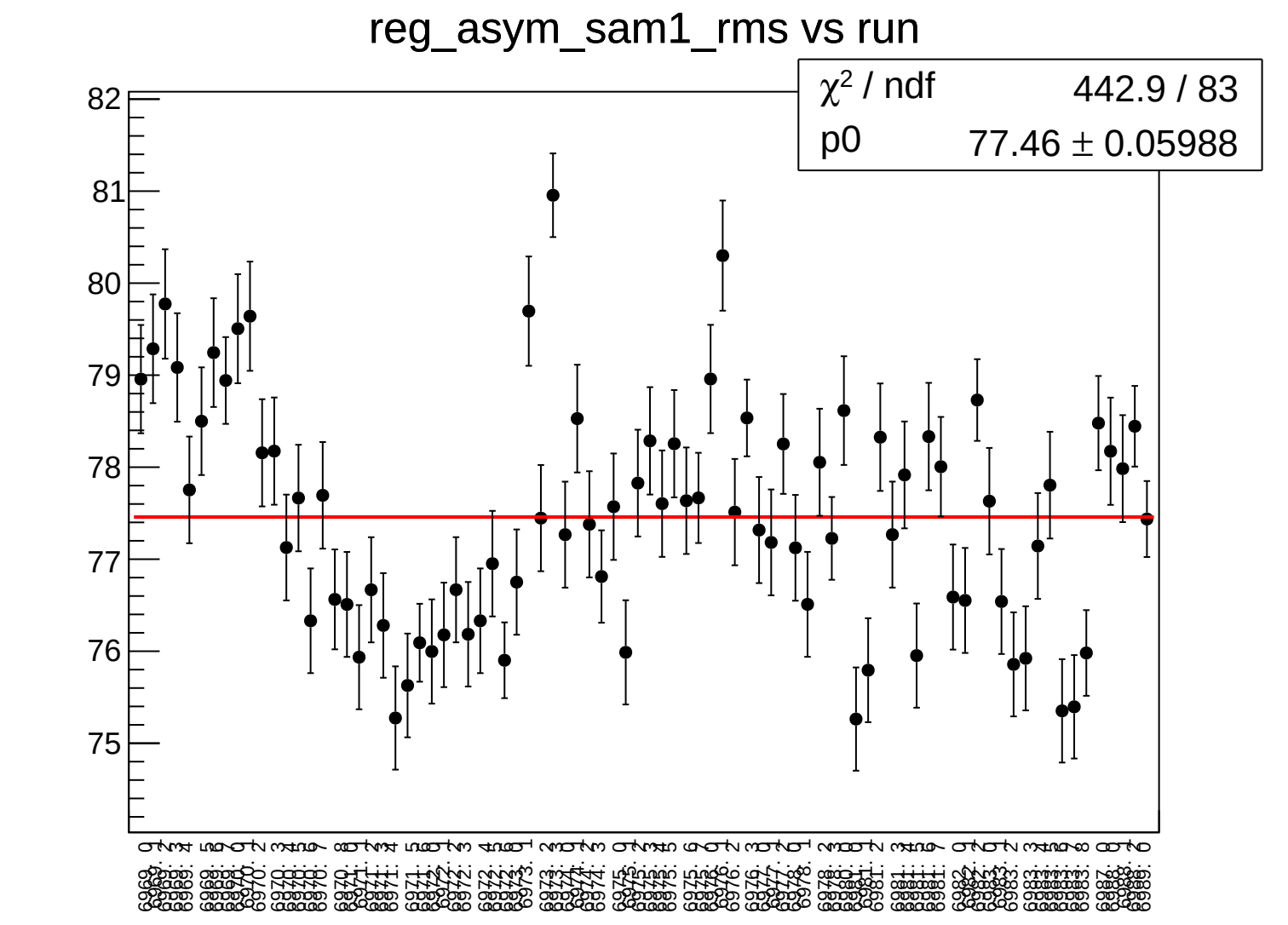

yield_sam8_mean vs run
χ² / ndf 1.172e+06 / 83
p0 9.049 ± 8.058e−06
9.08
9.07
9.06
9.05
9.04
9.03
pull
Entries 84
Mean −221.5
Std Dev 0
400
300
200
100
0
−100

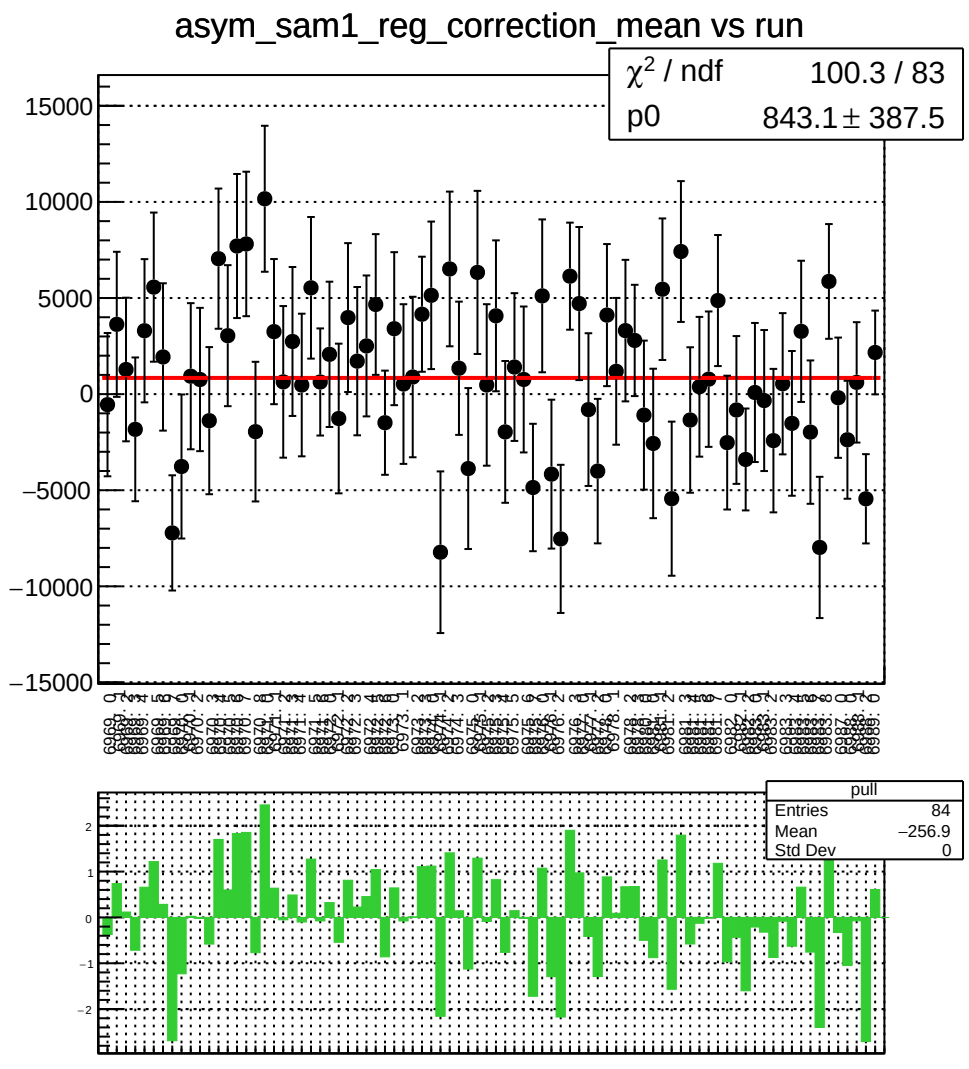

pull1D
Entries 84
Mean −0.3393
Std Dev 4.488
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

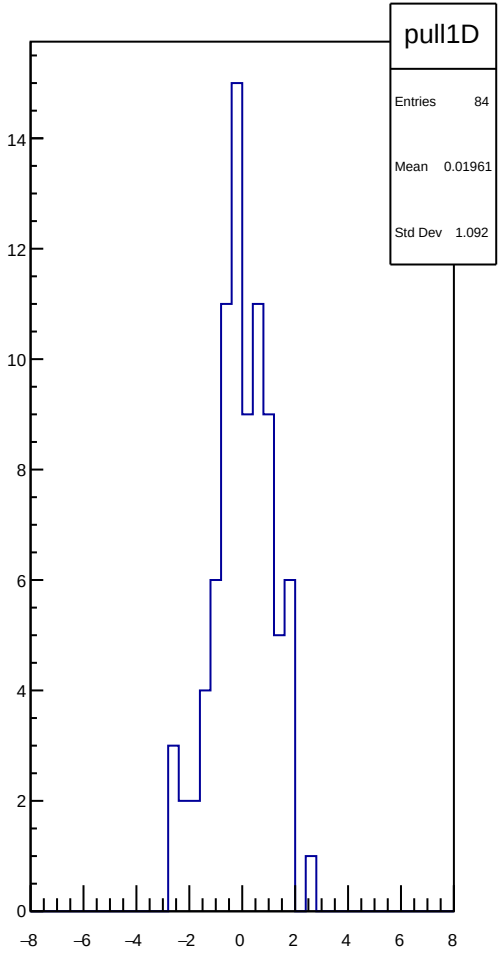

yield_sam8_rms vs run
χ² / ndf 2.963e+05 / 83
p0 0.006686 ± 5.698e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

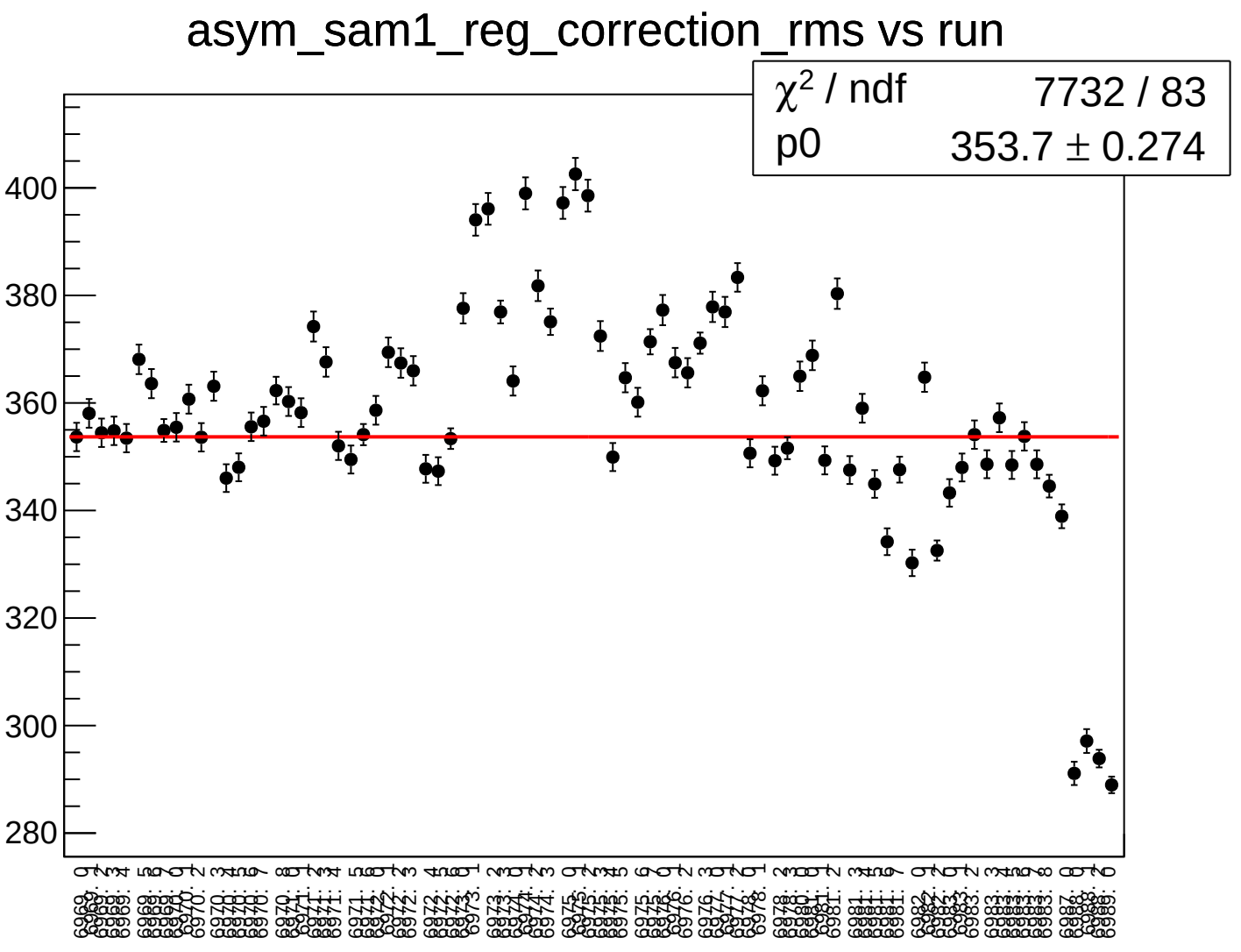

reg_asym_sam1_mean vs run
χ² / ndf 80.46 / 83
p0 −280 ± 84.69
pull
Entries 84
Mean 84.29
Std Dev 0

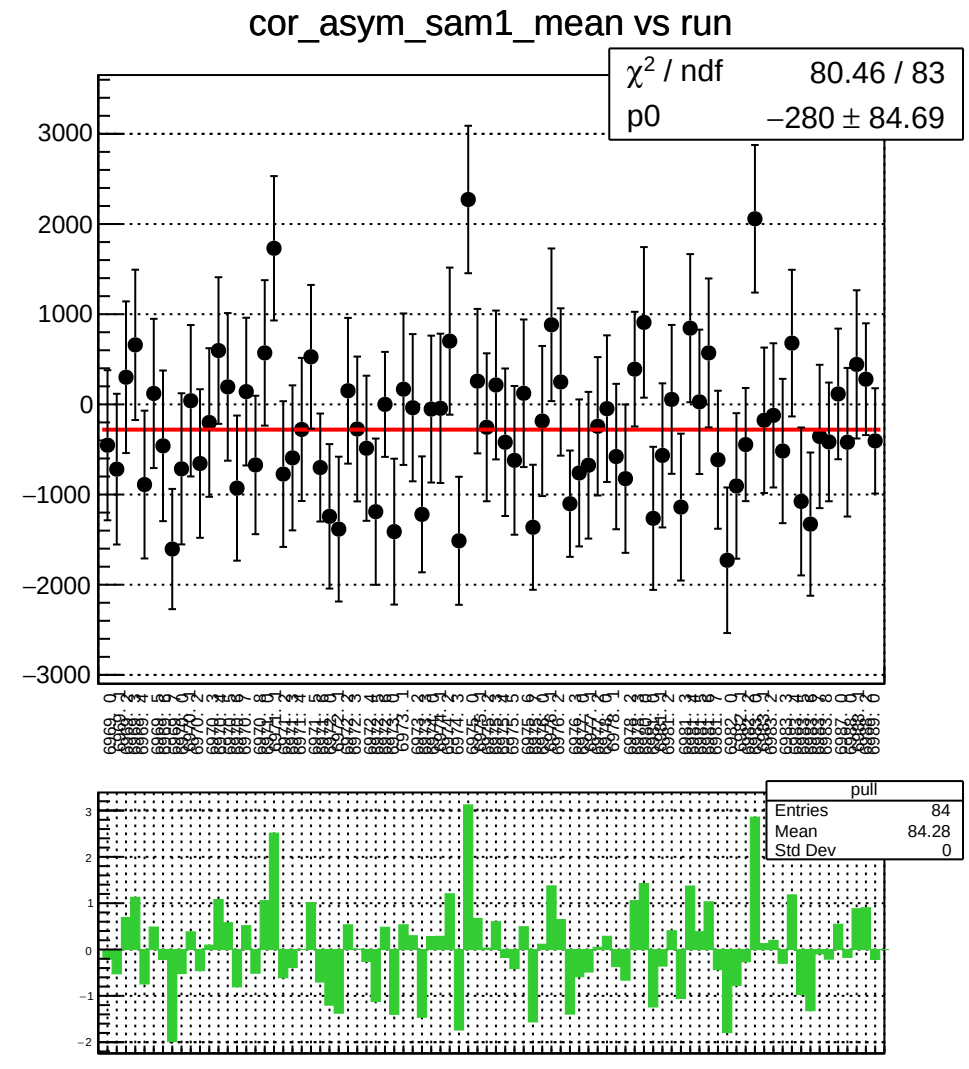

pull1D
Entries 84
Mean 0.02195
Std Dev 0.9784

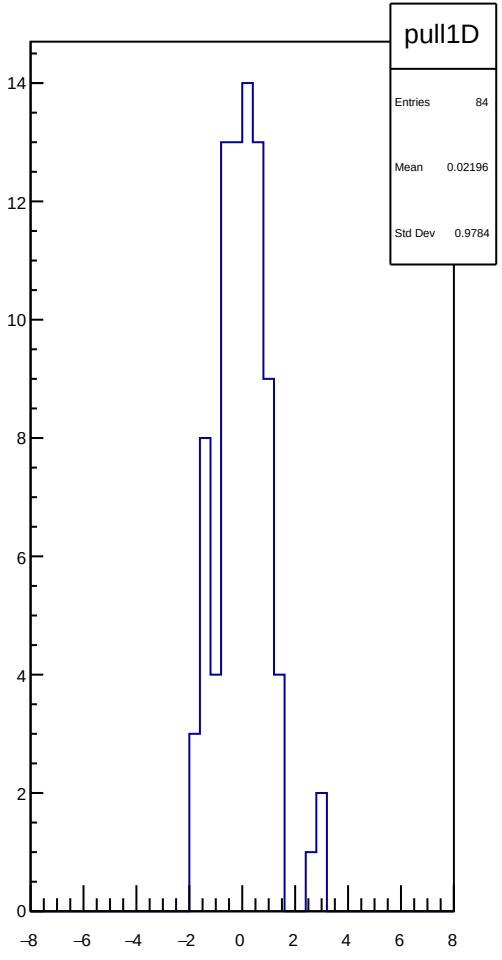

reg_asym_sam1_rms vs run
χ² / ndf 442.9 / 83
p0 77.46 ± 0.05988
82
81
80
79
78
77
76
75

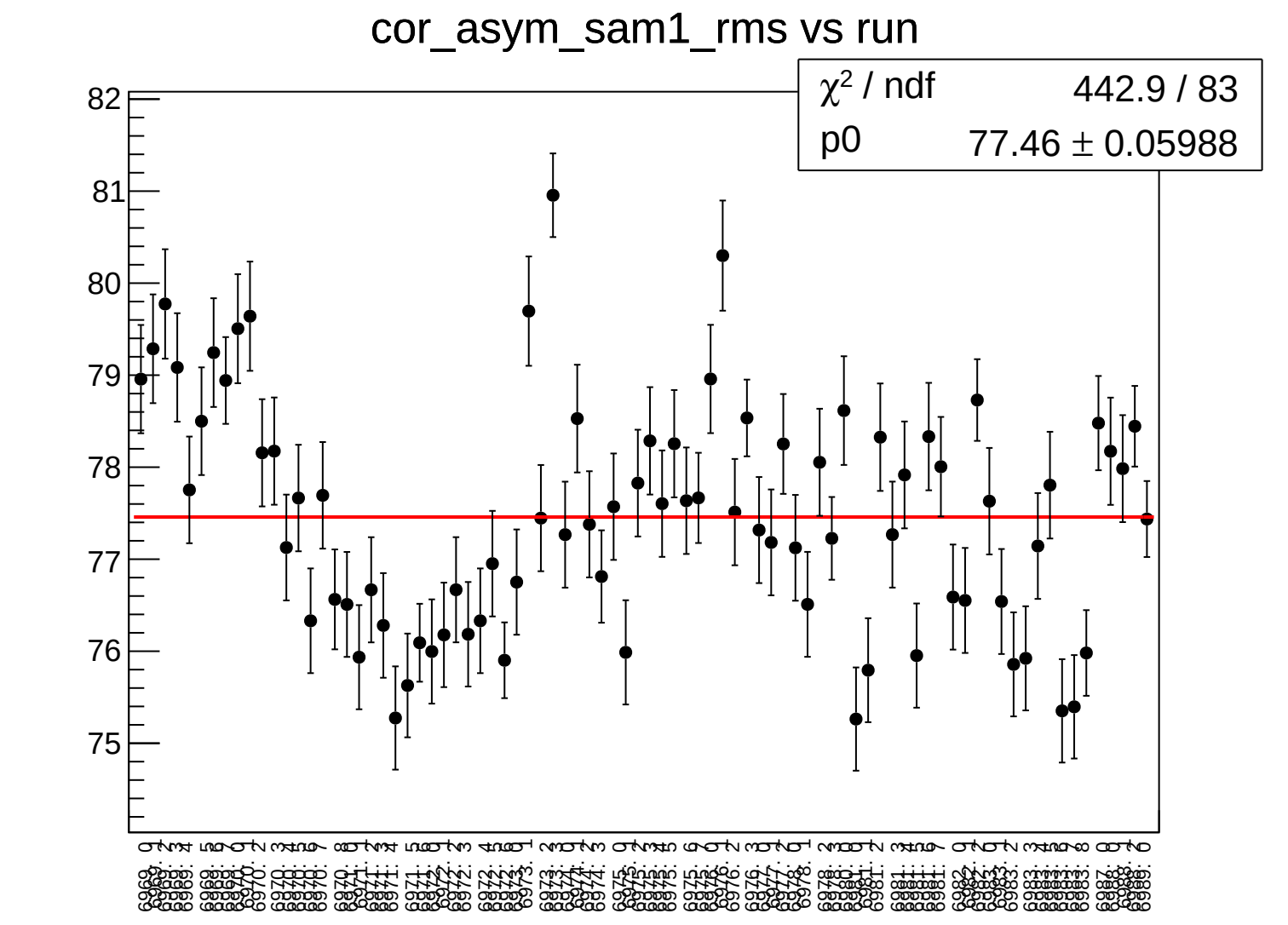

asym_sam1_reg_correction_mean vs run
χ² / ndf 100.3 / 83
p0 843.1 ± 387.5
pull
Entries 84
Mean −256.9
Std Dev 0

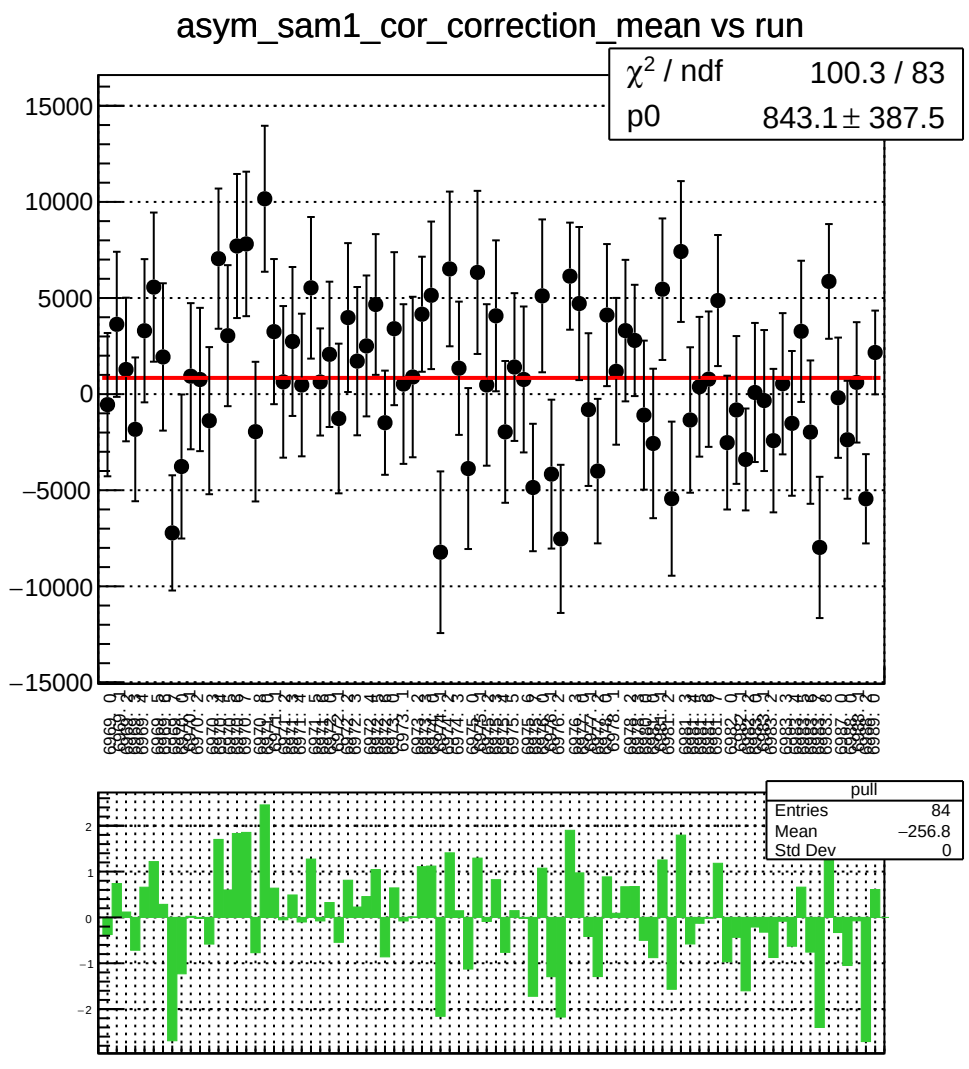

pull1D
Entries 84
Mean 0.01961
Std Dev 1.092

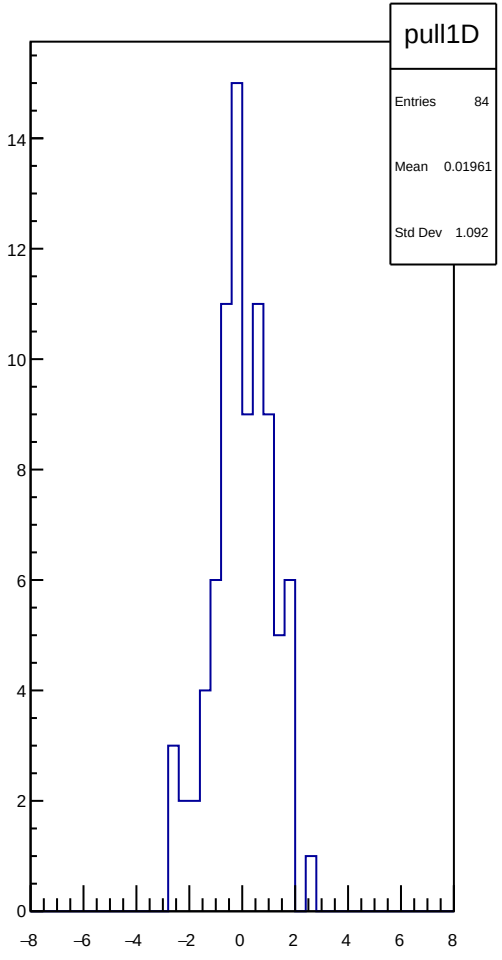

asym_sam1_reg_correction_rms vs run
χ² / ndf 7732 / 83
p0 353.7 ± 0.274
400
380
360
340
320
300
280

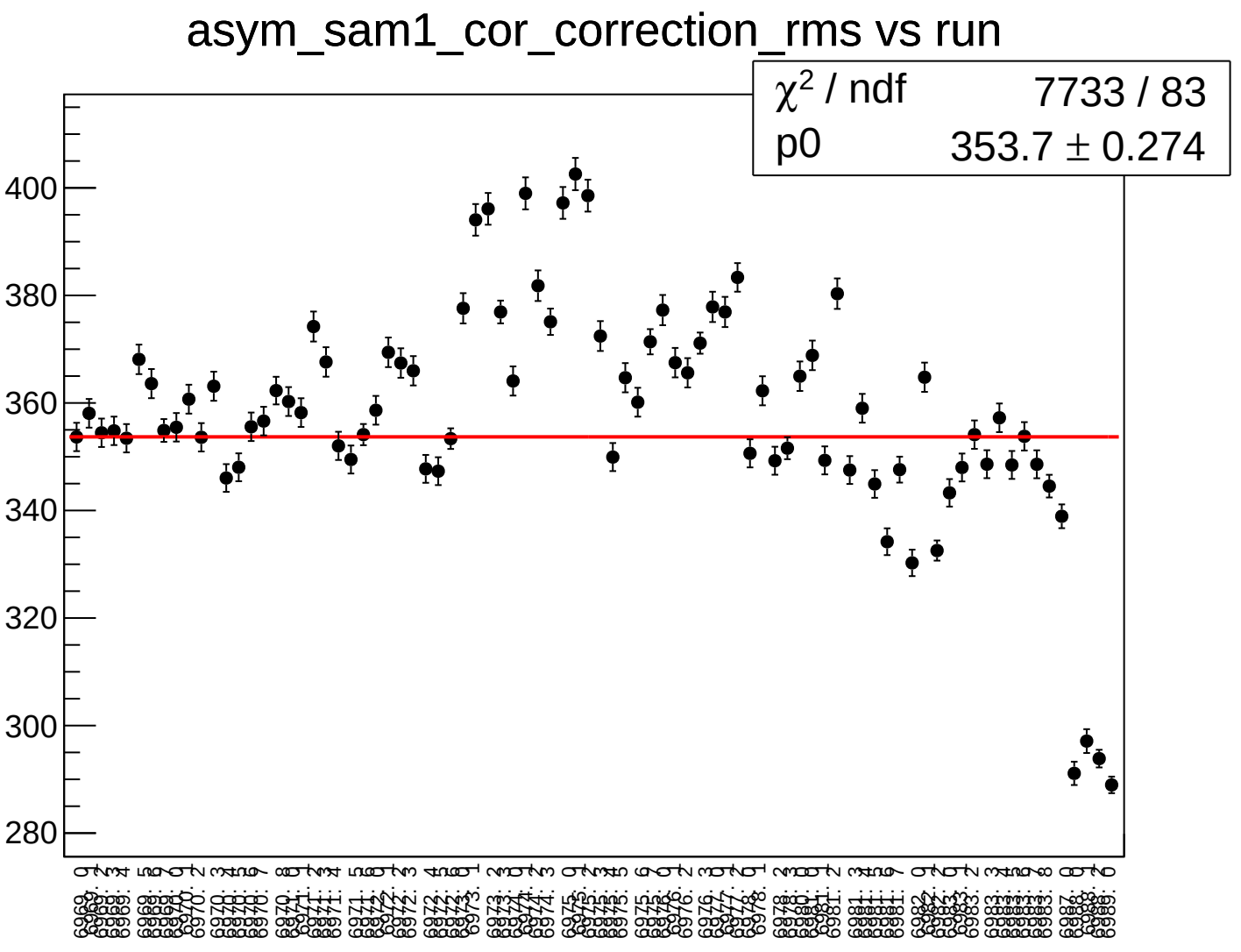

cor_asym_sam1_mean vs run
χ² / ndf 80.46 / 83
p0 −280 ± 84.69
pull
Entries 84
Mean 84.28
Std Dev 0

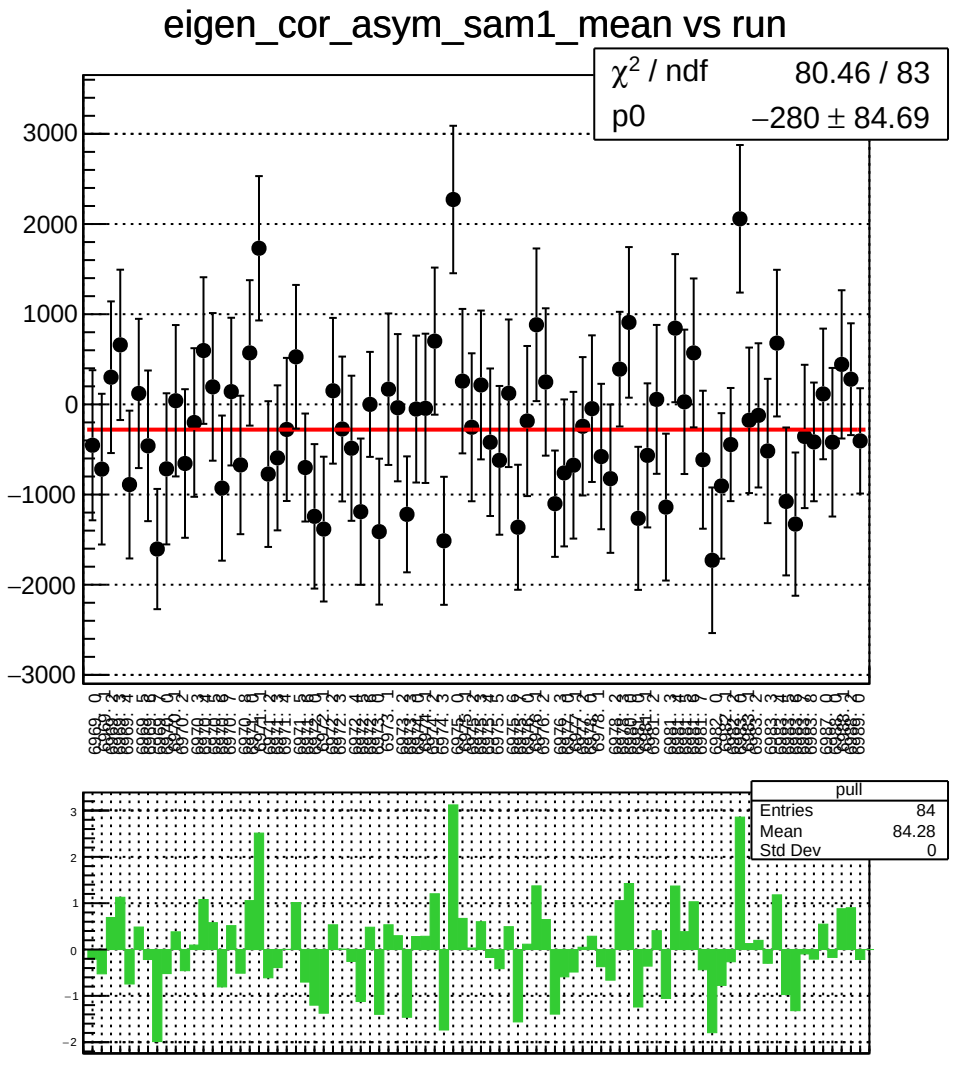

pull1D
Entries 84
Mean 0.02196
Std Dev 0.9784

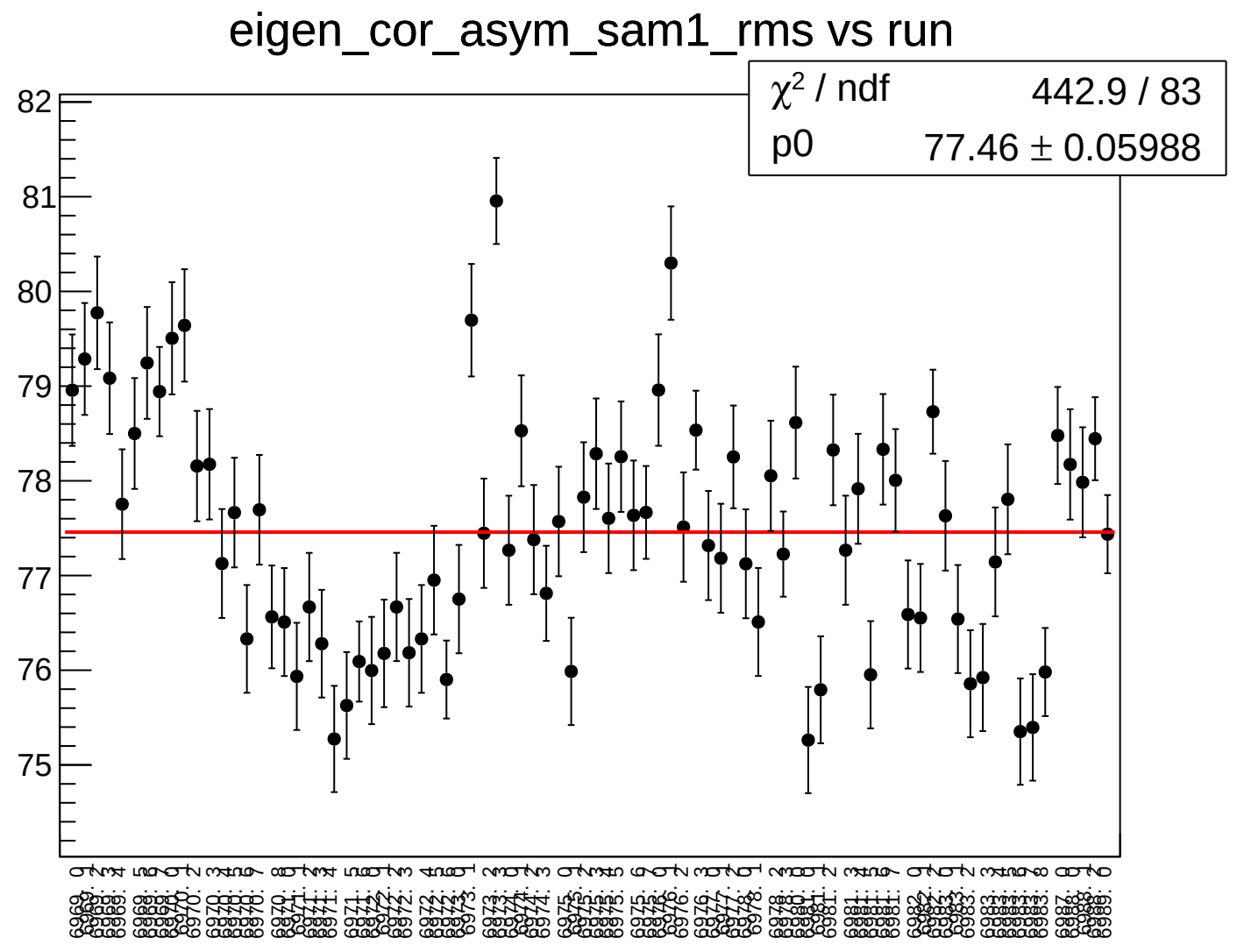

cor_asym_sam1_rms vs run
χ^2 / ndf 442.9 / 83
p0 77.46 ± 0.05988
82
81
80
79
78
77
76
75

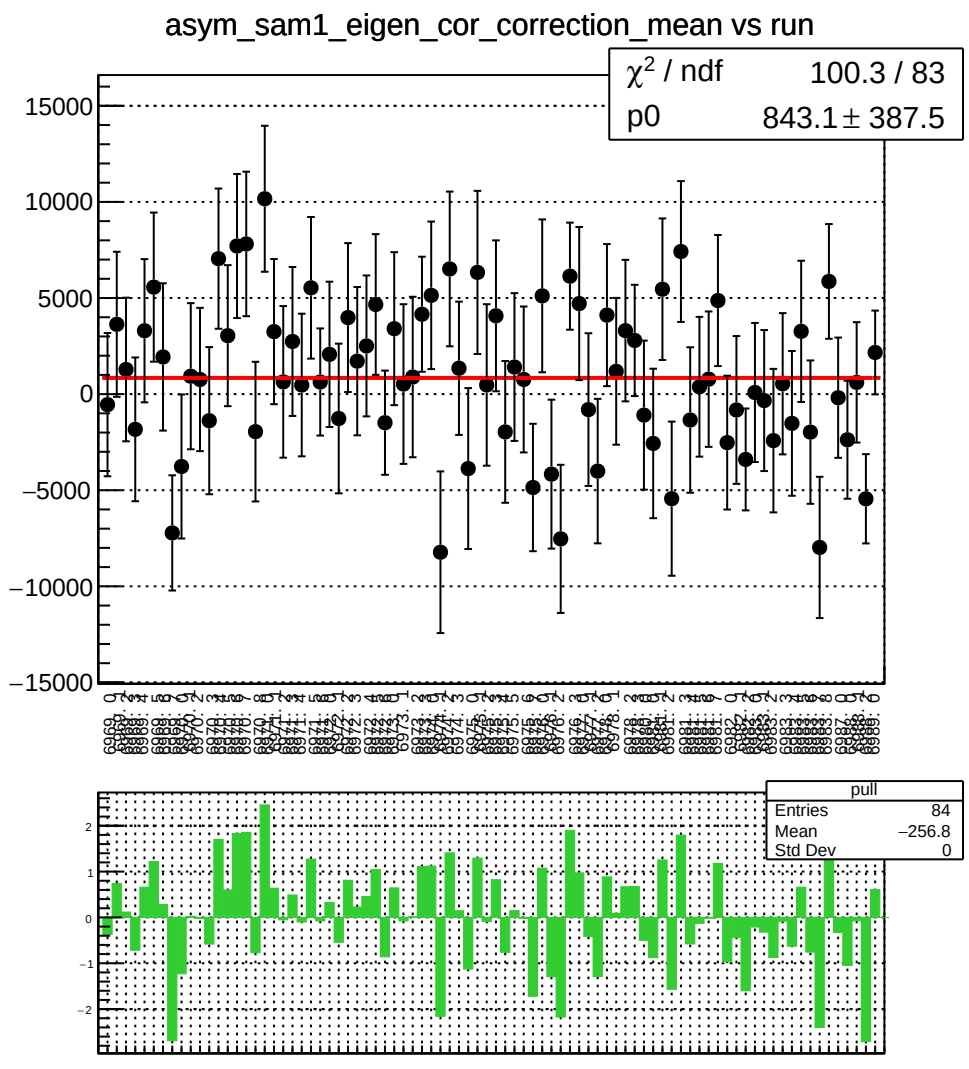

asym_sam1_cor_correction_mean vs run
χ² / ndf 100.3 / 83
p0 843.1 ± 387.5
pull
Entries 84
Mean −256.8
Std Dev 0

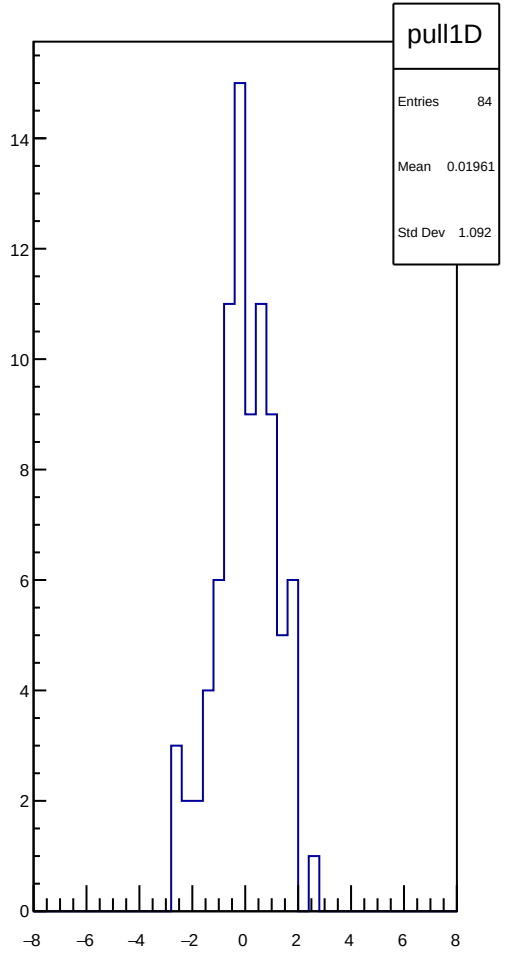

pull1D
Entries 84
Mean 0.01961
Std Dev 1.092

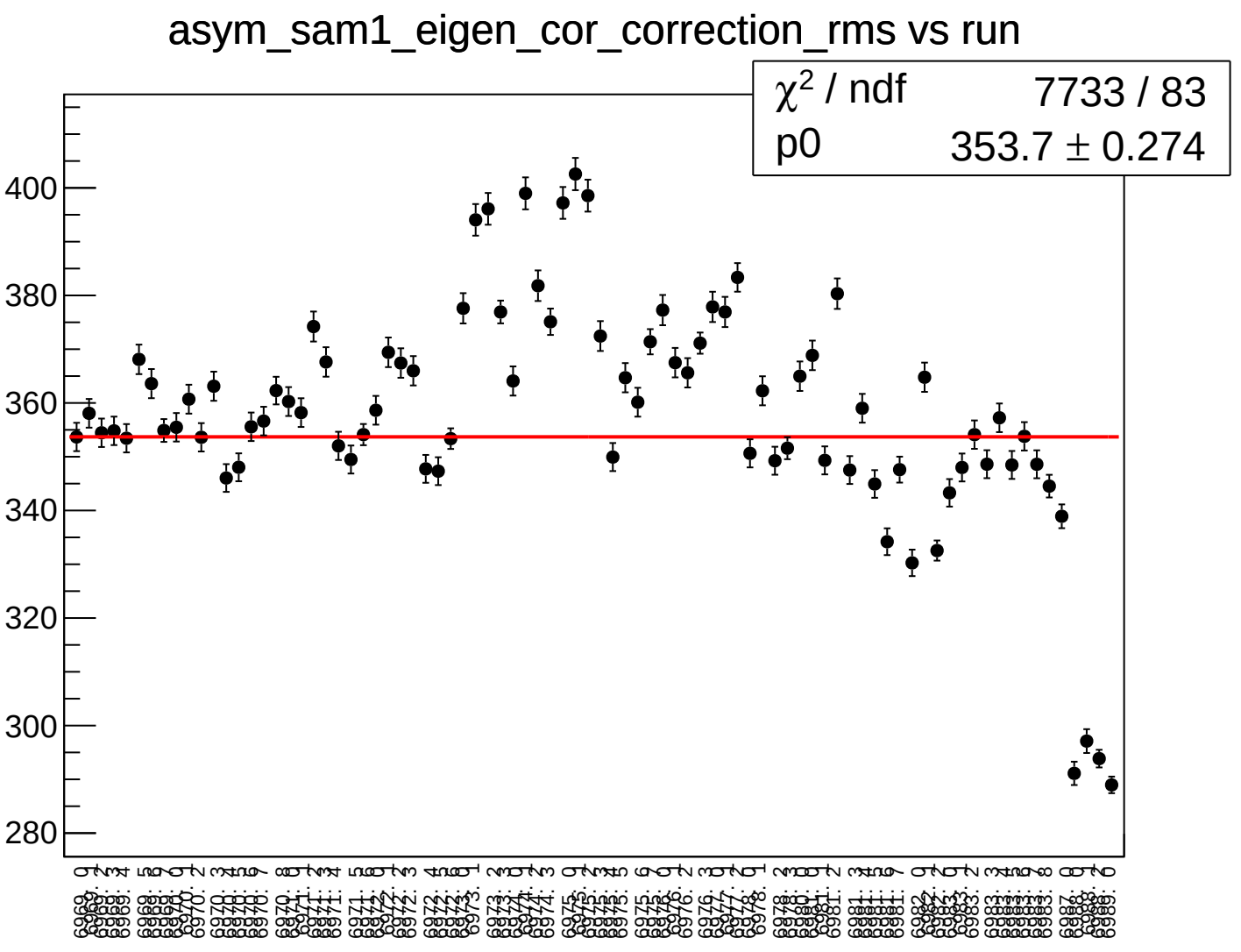

asym_sam1_cor_correction_rms vs run
χ² / ndf 7733 / 83
p0 353.7 ± 0.274
400
380
360
340
320
300
280

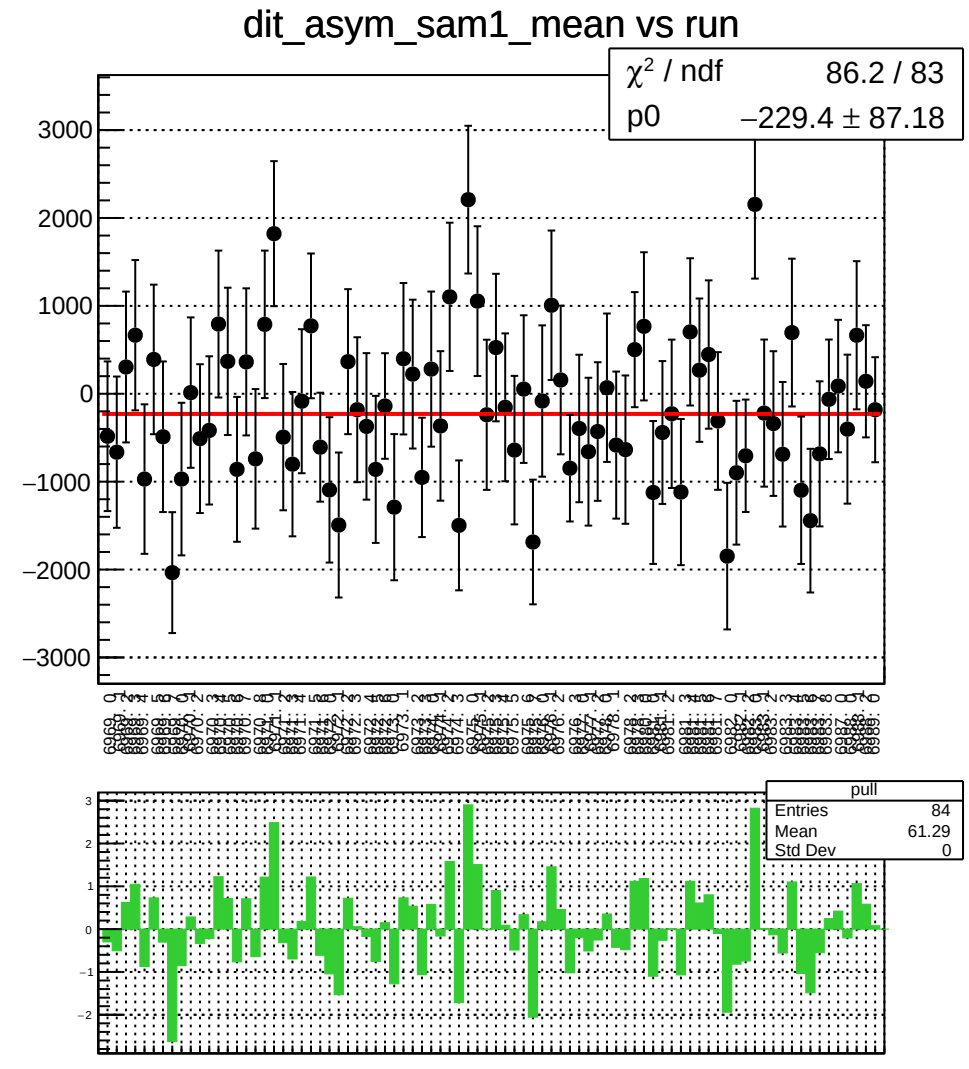

eigen_cor_asym_sam1_mean vs run
χ² / ndf 80.46 / 83
p0 −280 ± 84.69
pull
Entries 84
Mean 84.28
Std Dev 0
pull1D
Entries 84
Mean 0.02196
Std Dev 0.9784

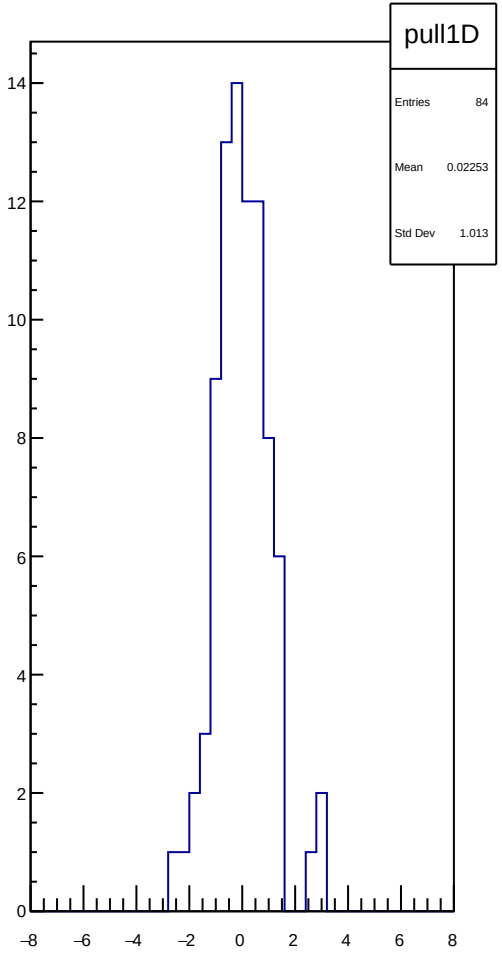

eigen_cor_asym_sam1_rms vs run
χ² / ndf 442.9 / 83
p0 77.46 ± 0.05988
82
81
80
79
78
77
76
75

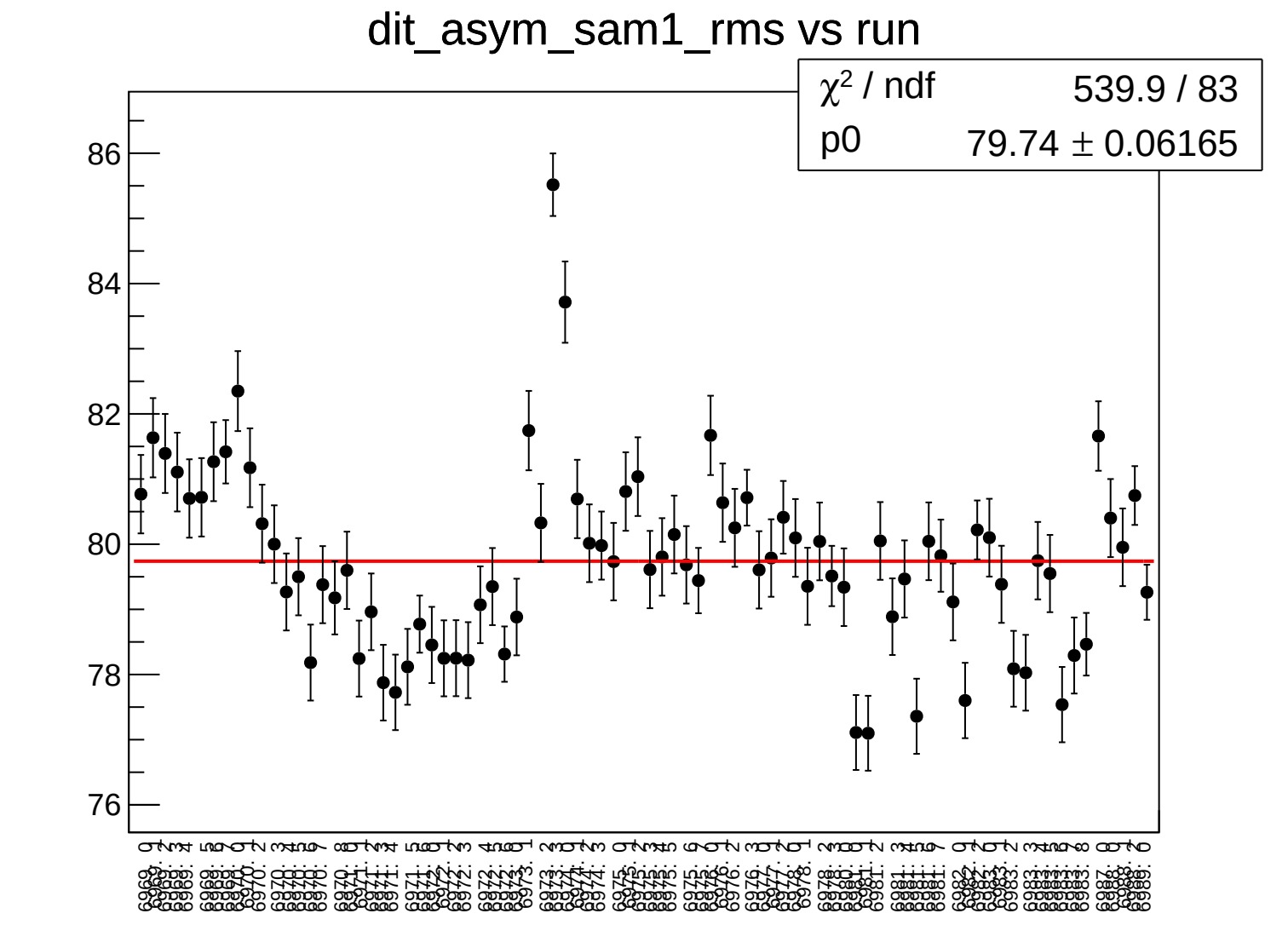

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 100.3 / 83
p0 843.1 ± 387.5
pull
Entries 84
Mean −256.8
Std Dev 0

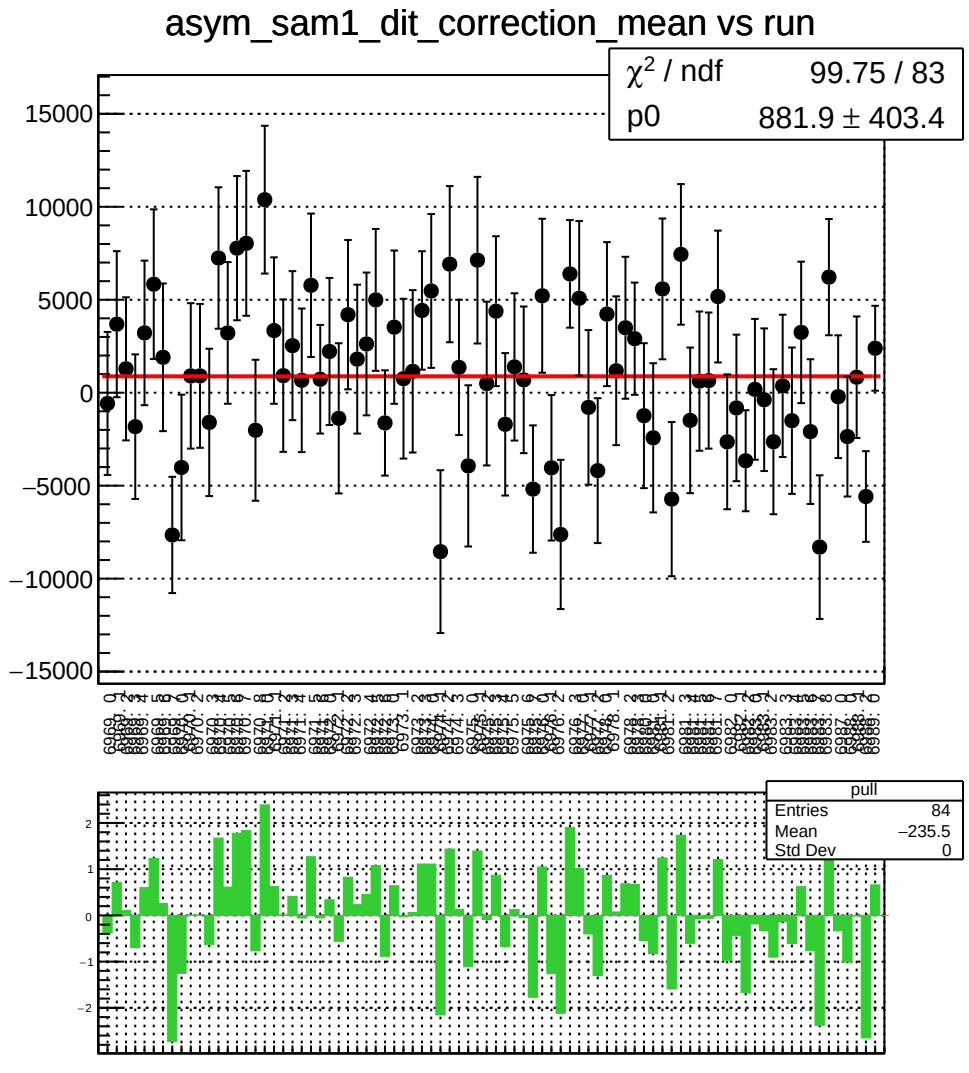

pull1D
Entries 84
Mean 0.01961
Std Dev 1.092

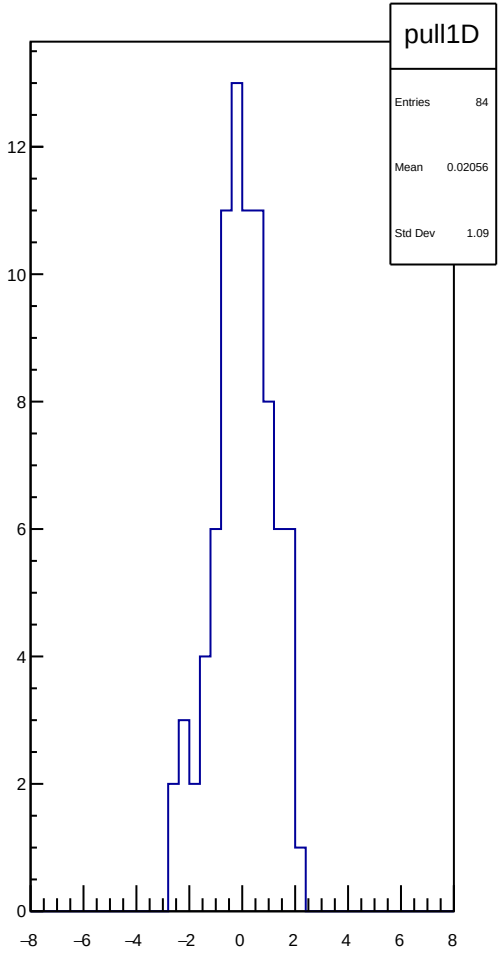

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 7733 / 83
p0 353.7 ± 0.274
400
380
360
340
320
300
280

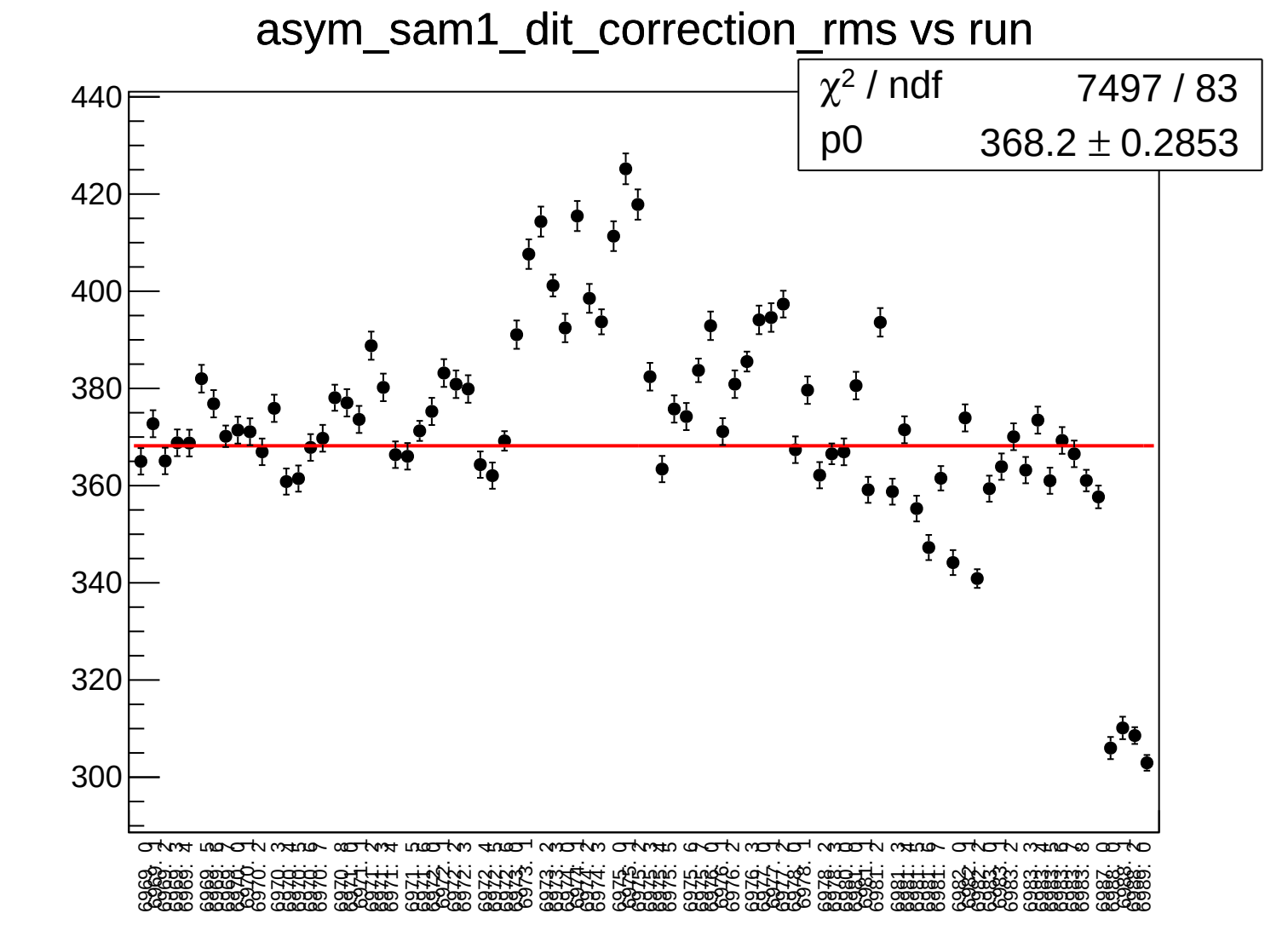

dit_asym_sam1_mean vs run
χ² / ndf 86.2 / 83
p0 −229.4 ± 87.18
pull
Entries 84
Mean 61.29
Std Dev 0

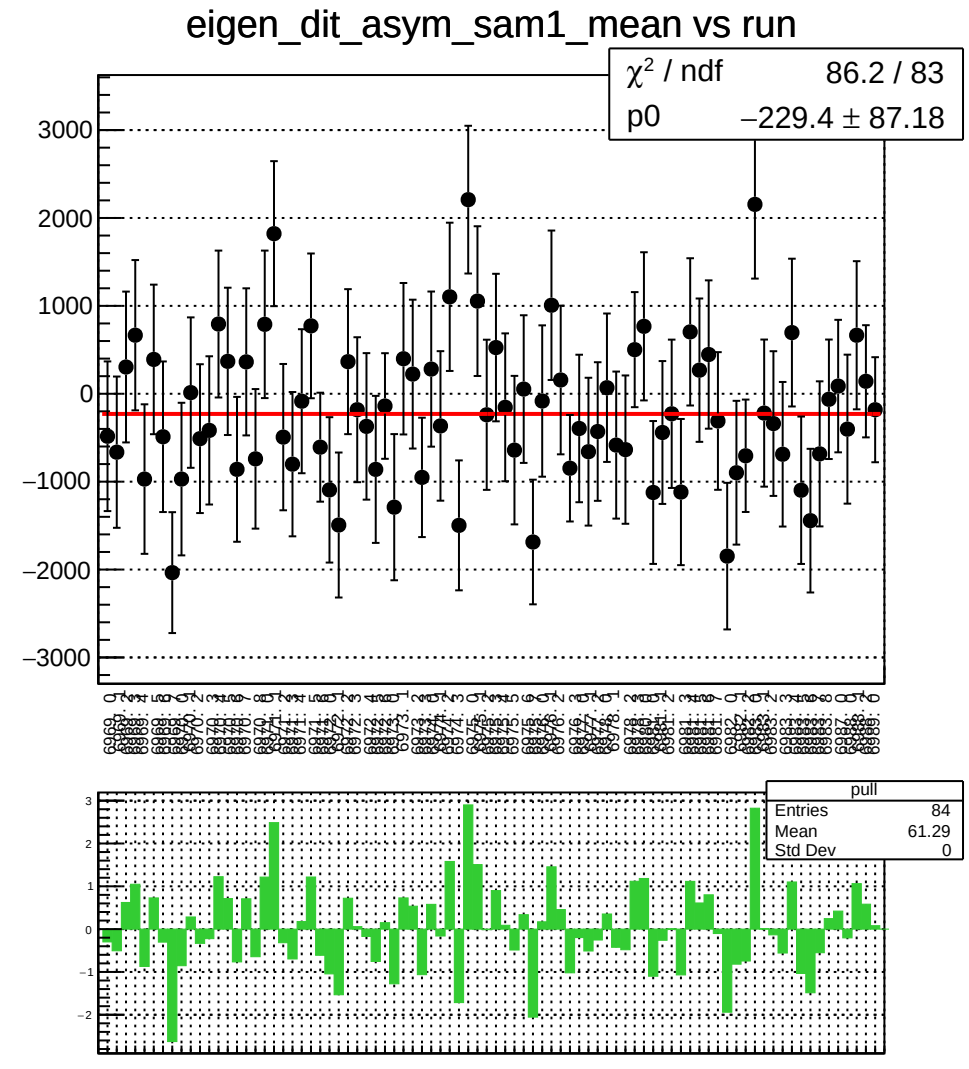

pull1D
Entries 84
Mean 0.02253
Std Dev 1.013

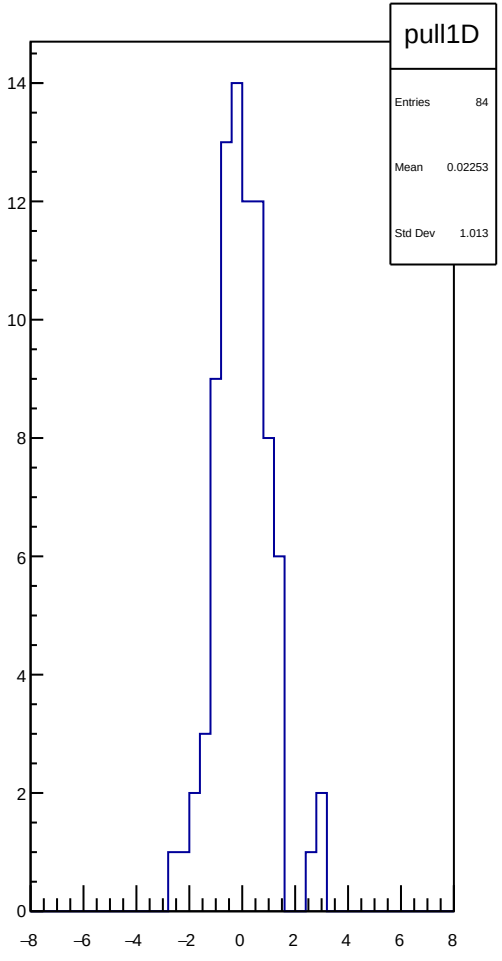

dit_asym_sam1_rms vs run
χ² / ndf 539.9 / 83
p0 79.74 ± 0.06165
86
84
82
80
78
76

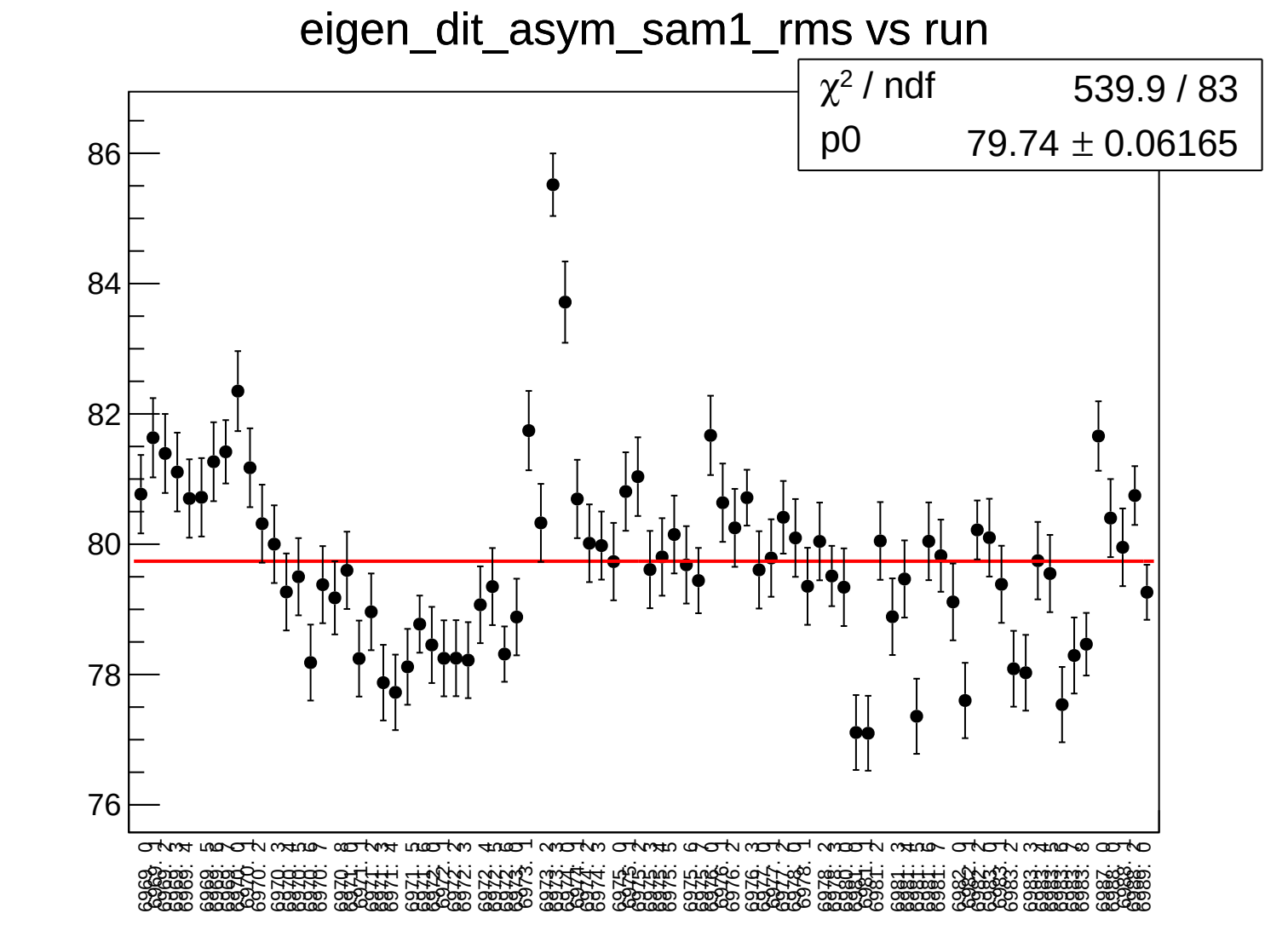

asym_sam1_dit_correction_mean vs run
χ² / ndf 99.75 / 83
p0 881.9 ± 403.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −235.5
Std Dev 0
2
1
0
−1
−2

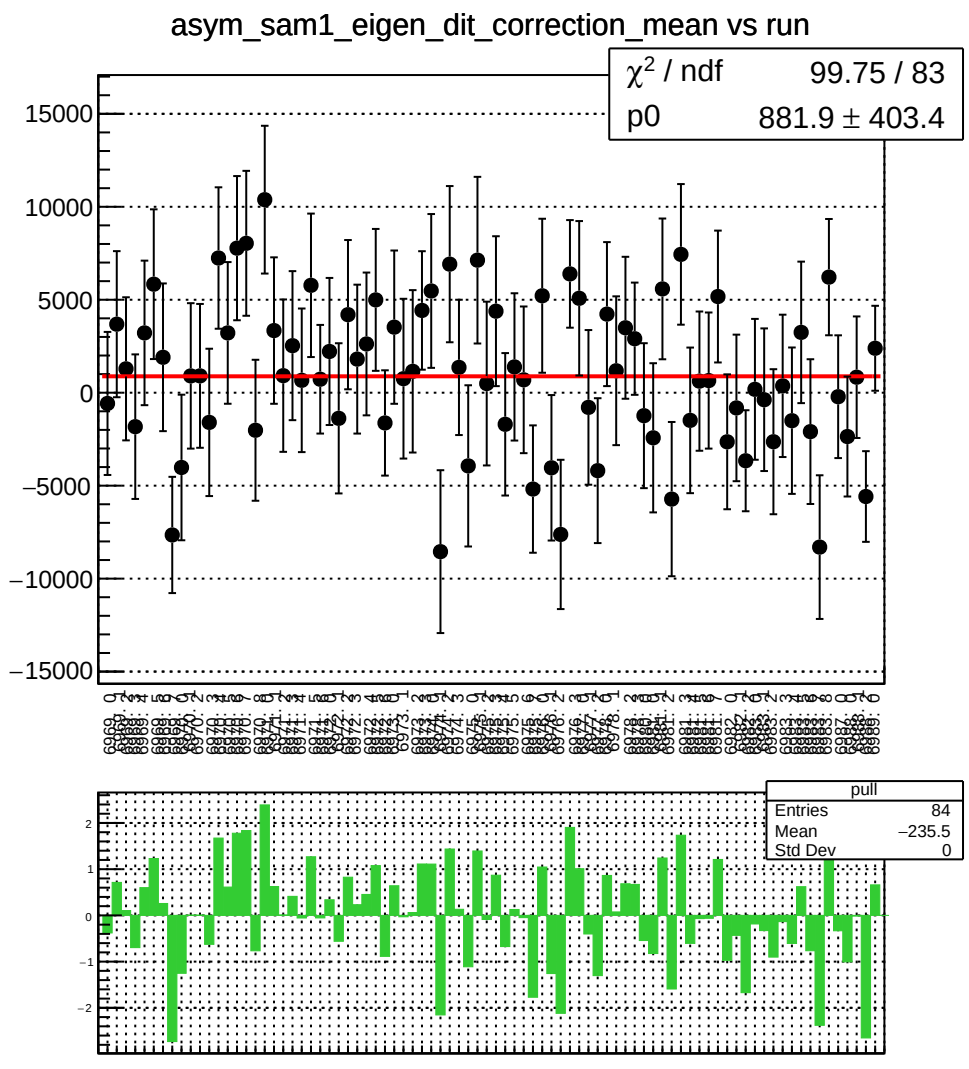

pull1D
Entries 84
Mean 0.02056
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

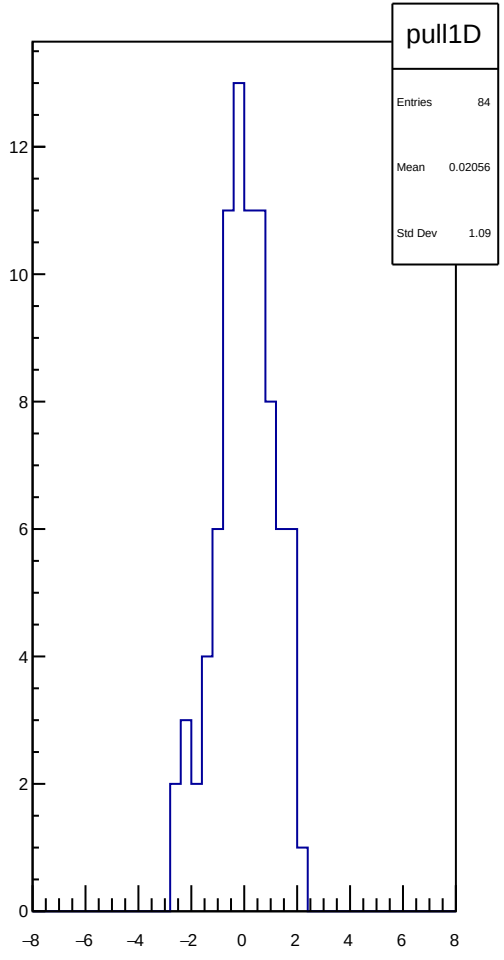

asym_sam1_dit_correction_rms vs run
χ² / ndf 7497 / 83
p0 368.2 ± 0.2853
440
420
400
380
360
340
320
300

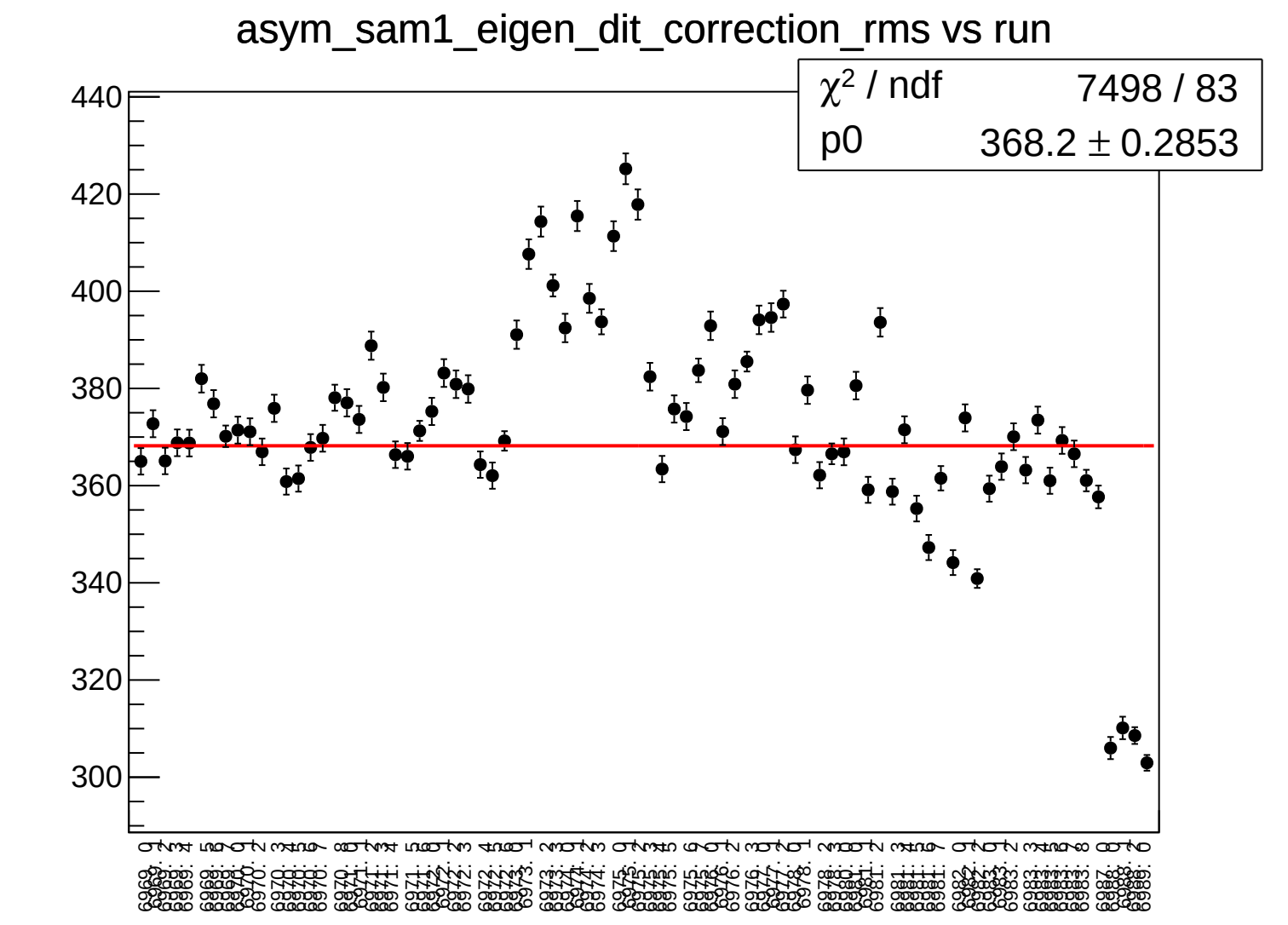

eigen_dit_asym_sam1_mean vs run
χ² / ndf 86.2 / 83
p0 −229.4 ± 87.18
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 61.29
Std Dev 0
3
2
1
0
−1
−2

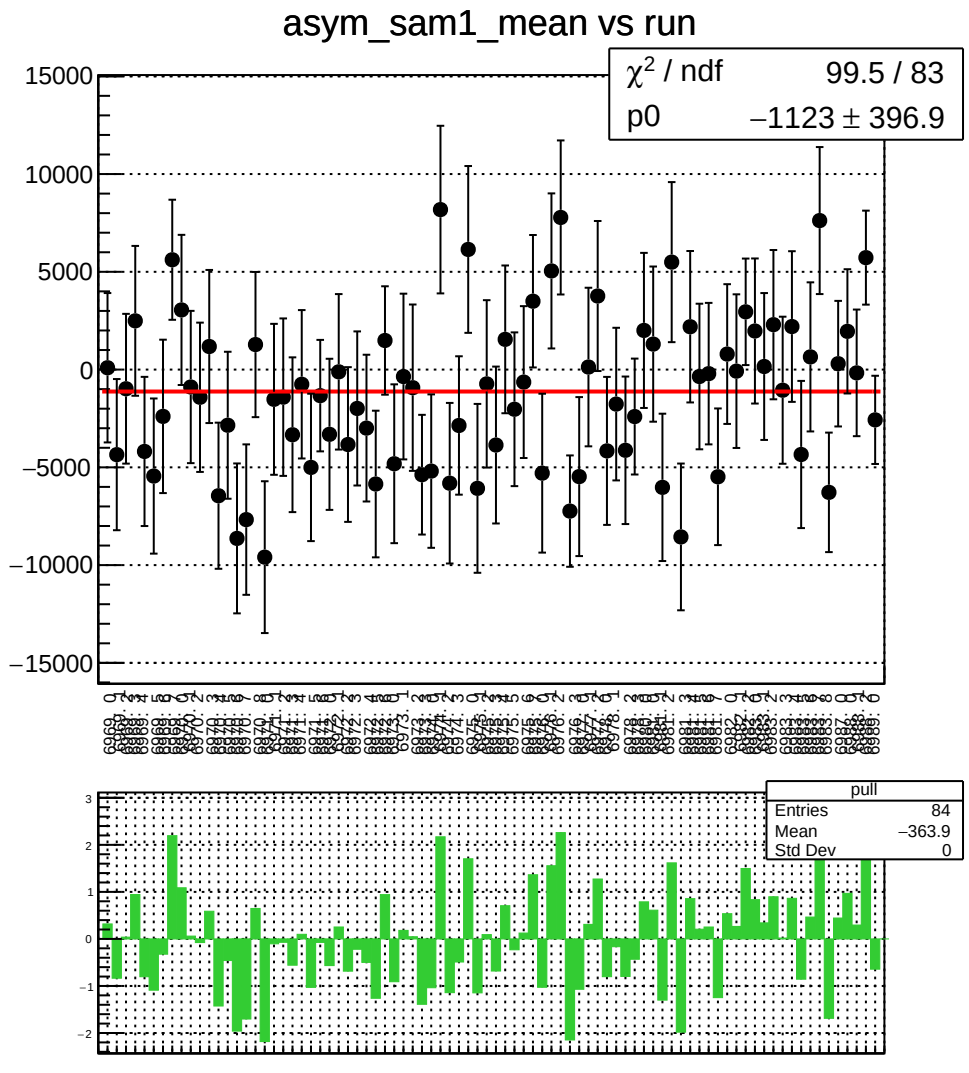

pull1D
Entries 84
Mean 0.02253
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

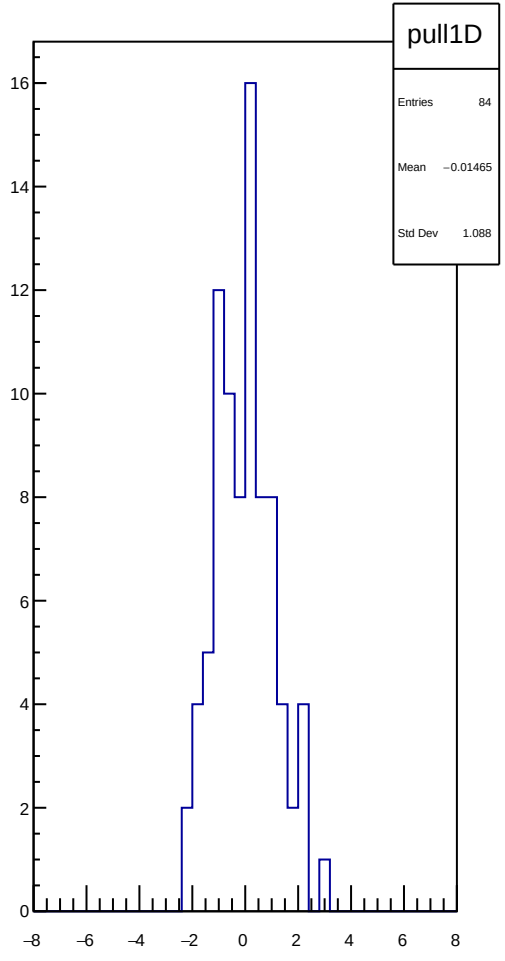

eigen_dit_asym_sam1_rms vs run
χ² / ndf 539.9 / 83
p0 79.74 ± 0.06165
86
84
82
80
78
76

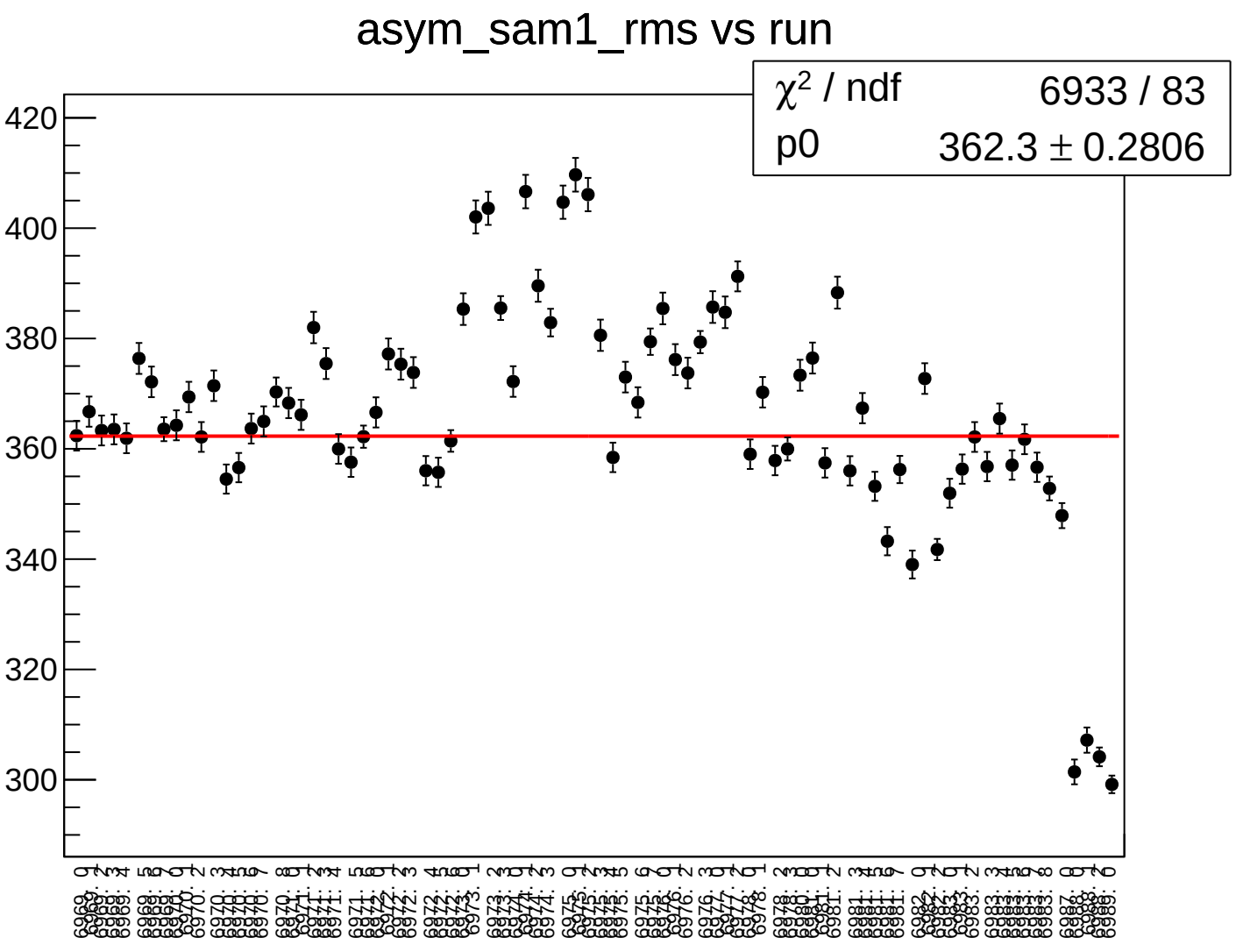

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 99.75 / 83
p0 881.9 ± 403.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −235.5
Std Dev 0
2
1
0
−1
−2

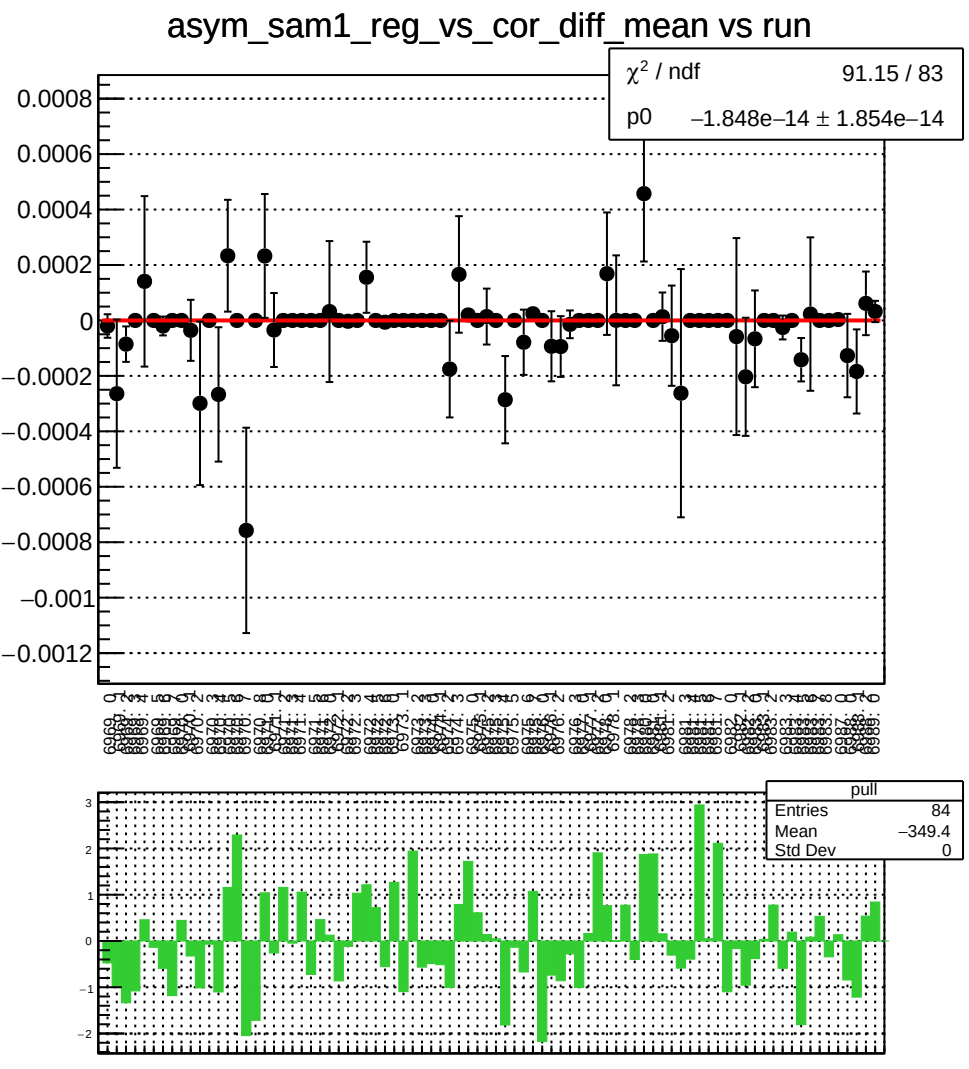

pull1D
Entries 84
Mean 0.02056
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

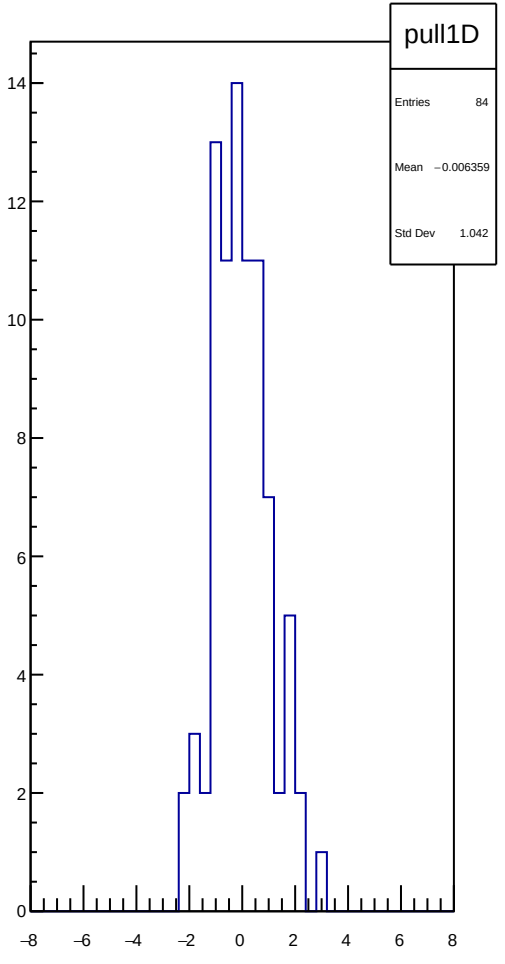

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 7498 / 83
p0 368.2 ± 0.2853
440
420
400
380
360
340
320
300

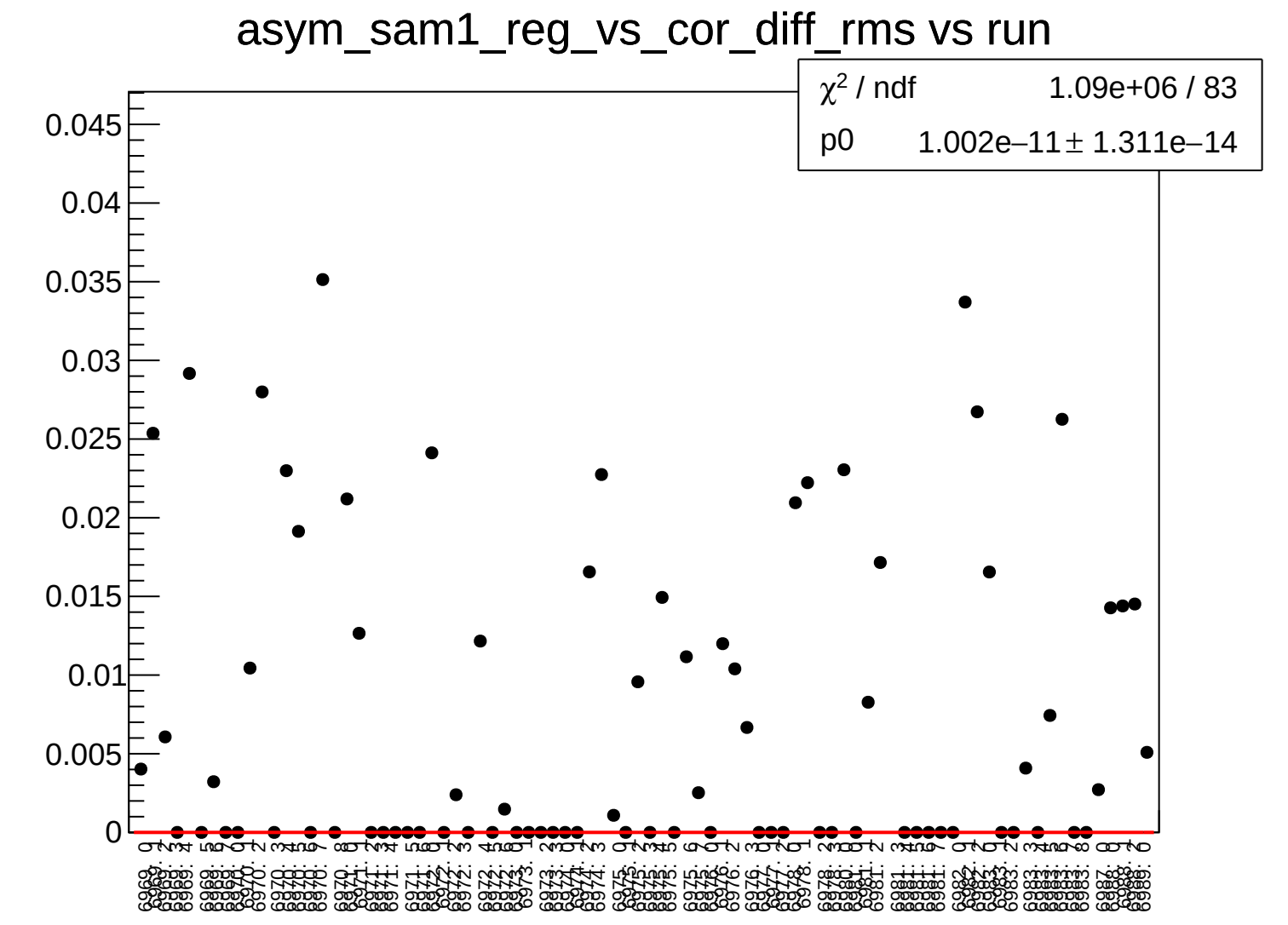

asym_sam1_mean vs run
χ² / ndf 99.5 / 83
p0 −1123 ± 396.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −363.9
Std Dev 0
3
2
1
0
−1
−2

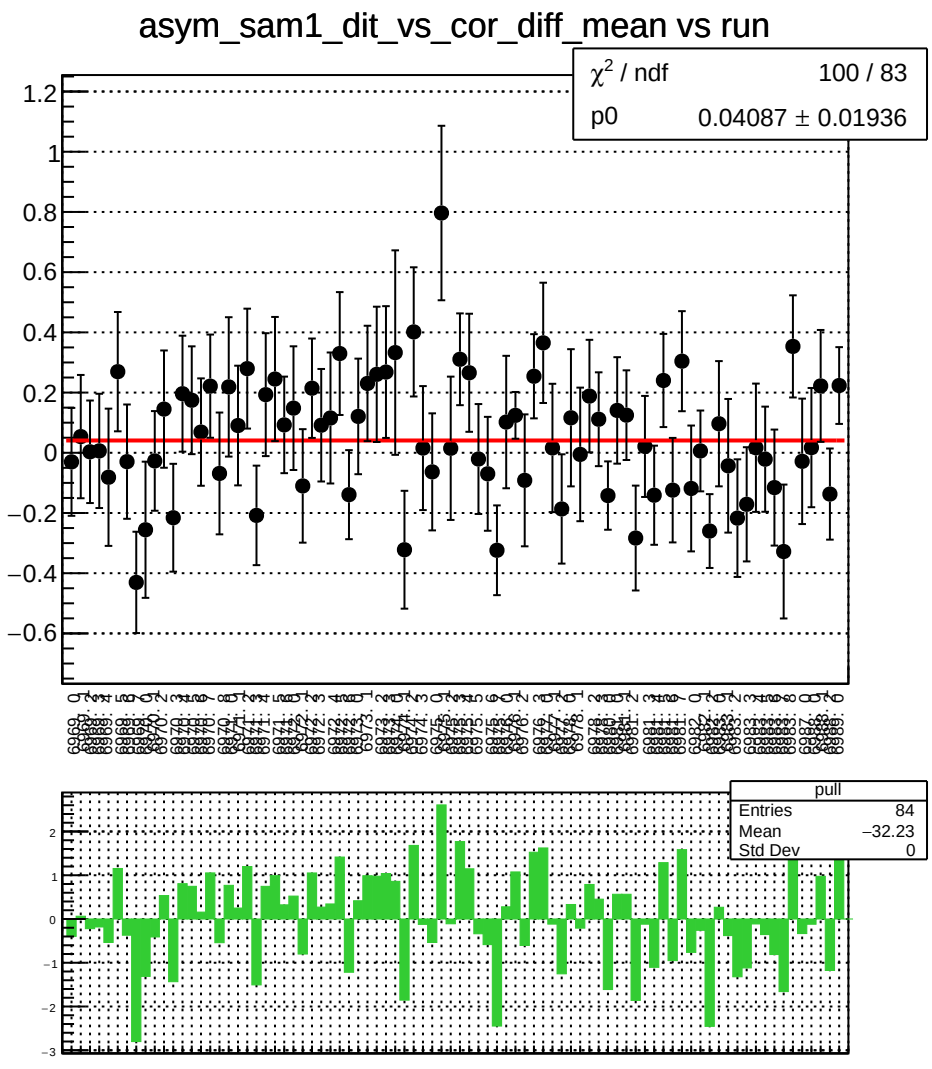

pull1D
Entries 84
Mean −0.01465
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

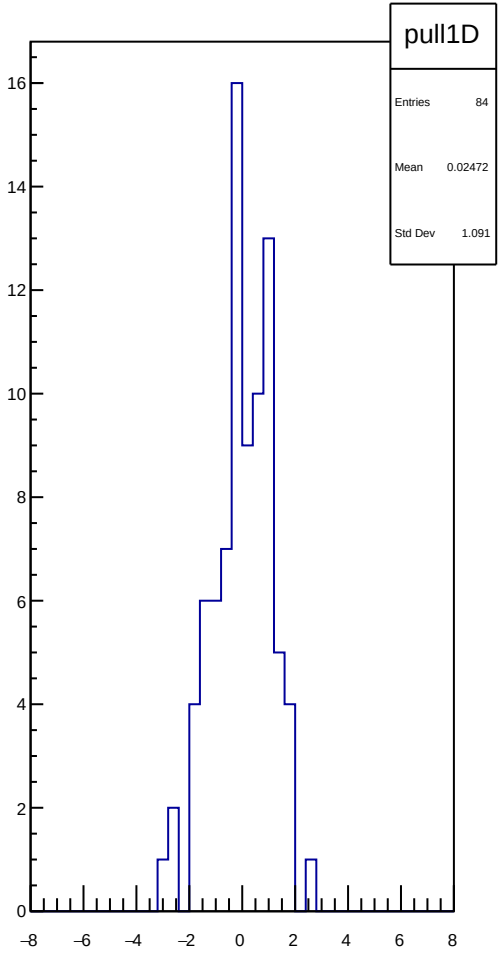

asym_sam1_rms vs run
χ² / ndf 6933 / 83
p0 362.3 ± 0.2806
420
400
380
360
340
320
300

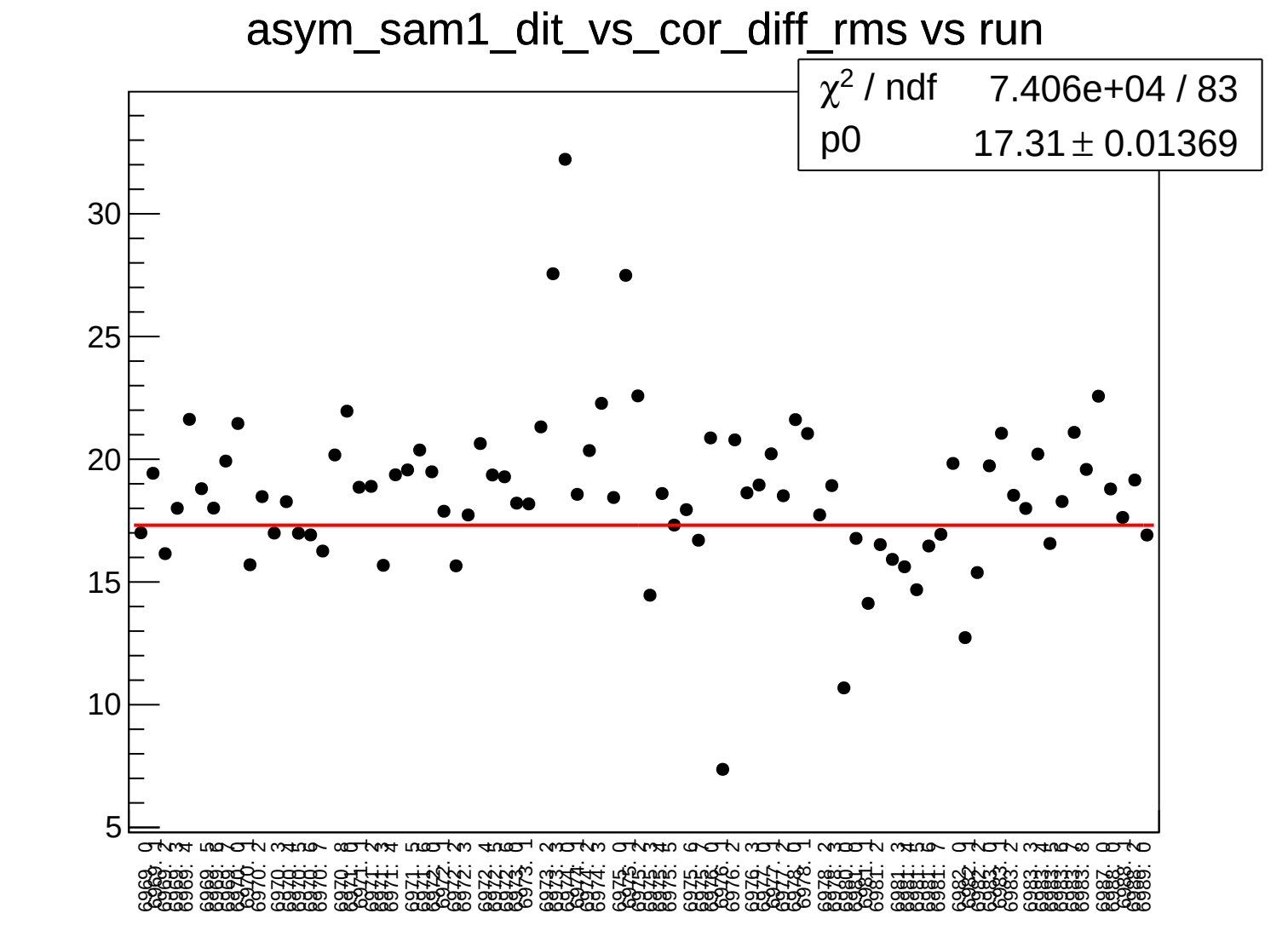

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 91.15 / 83
p0 −1.848e−14 ± 1.854e−14
pull
Entries 84
Mean −349.4
Std Dev 0

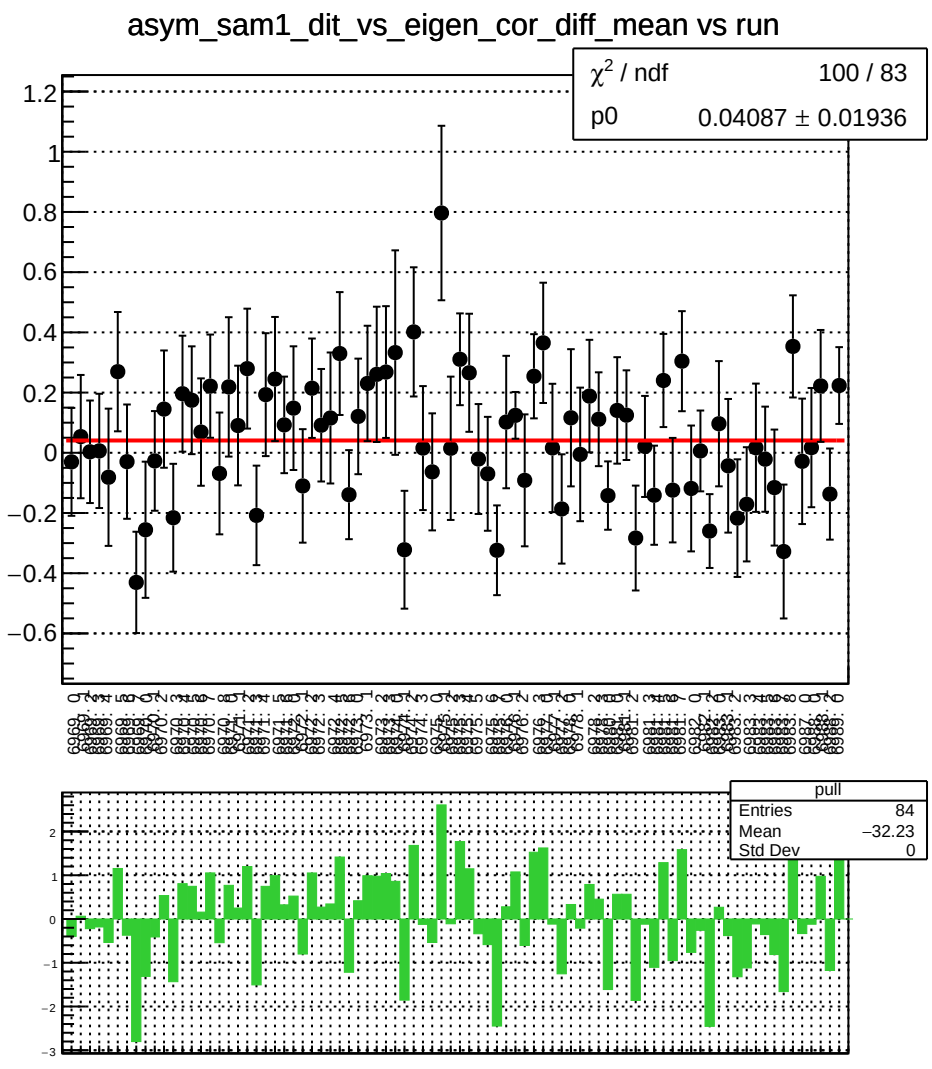

pull1D
Entries 84
Mean −0.006359
Std Dev 1.042

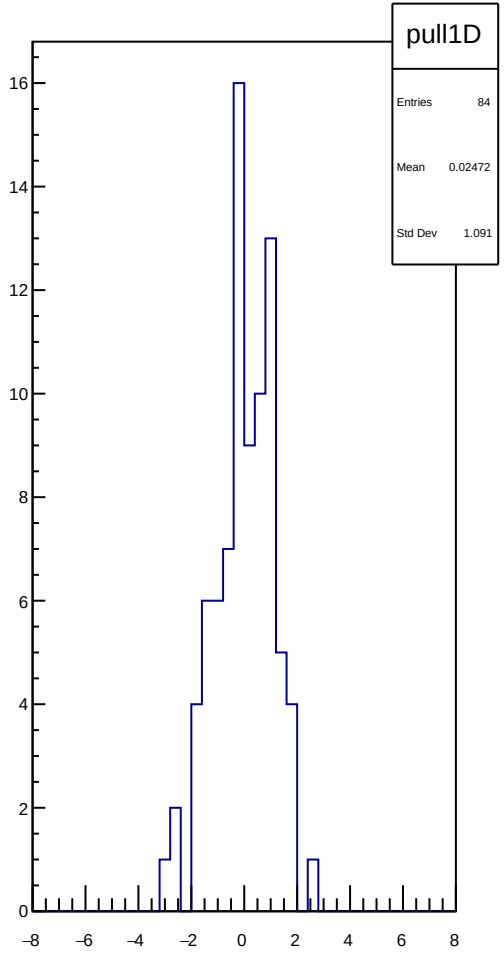

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 83
p0 1.002e−11 ± 1.311e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

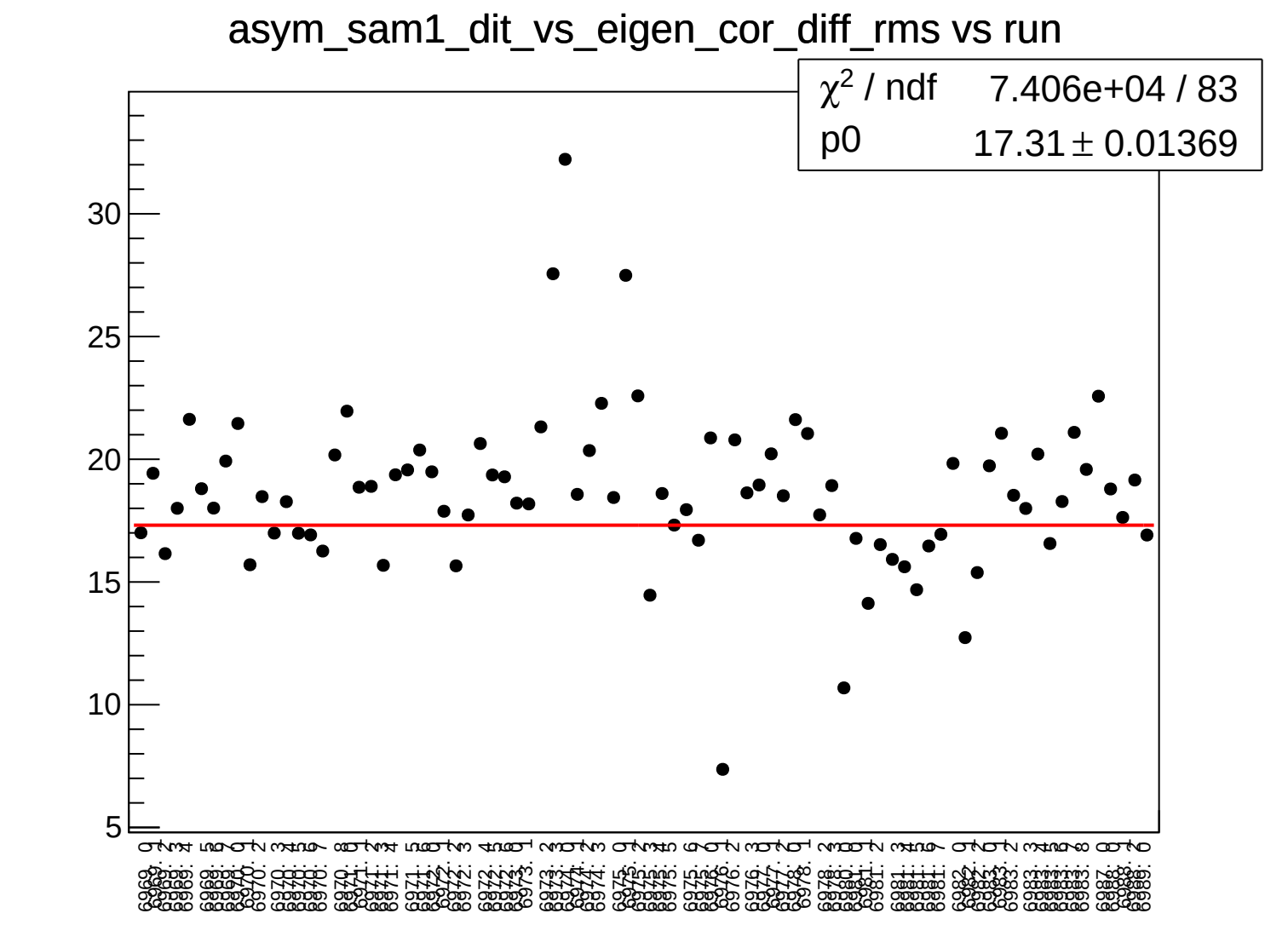

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 100 / 83
p0 0.04087 ± 0.01936
pull
Entries 84
Mean −32.23
Std Dev 0

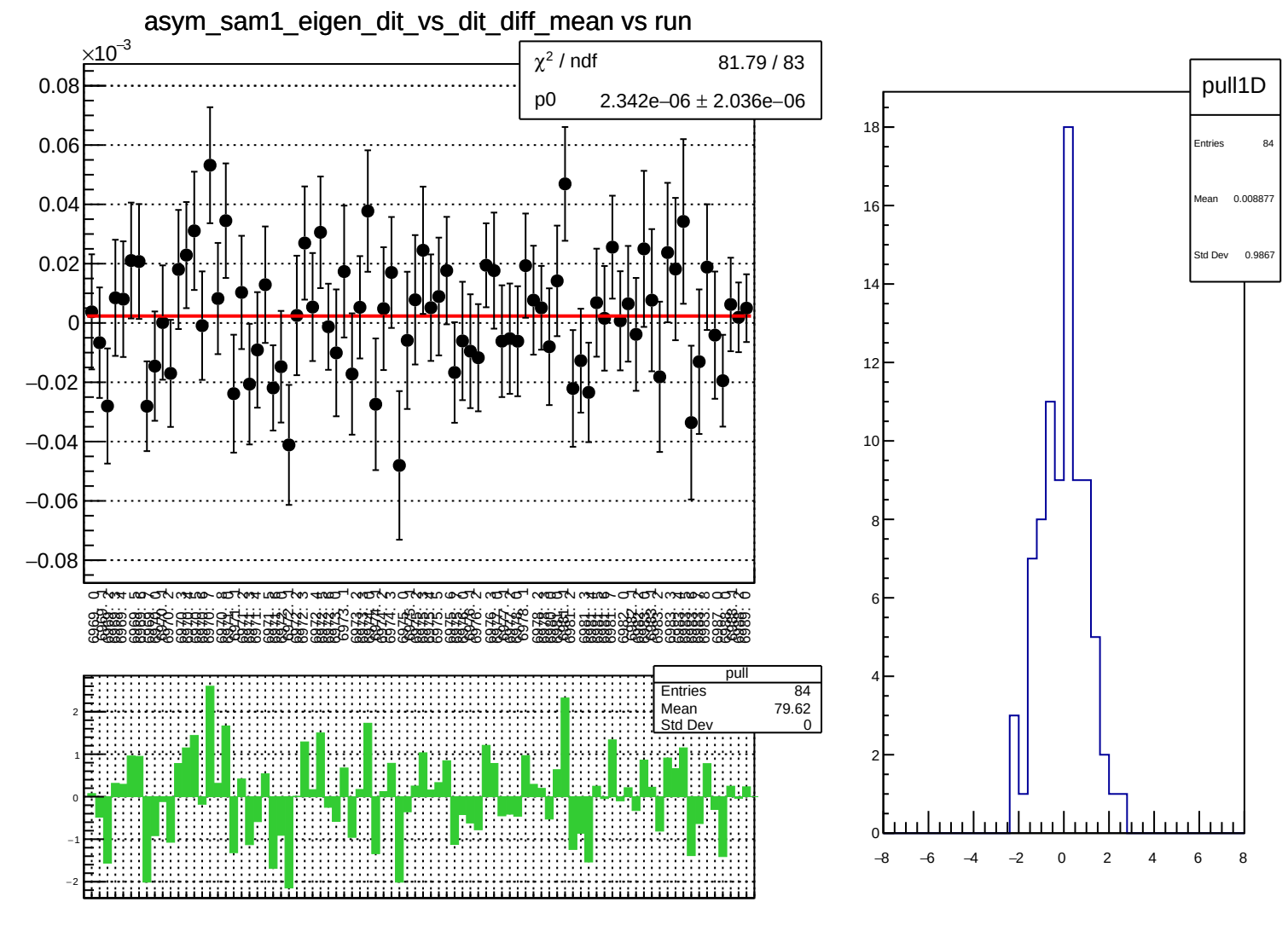

pull1D
Entries 84
Mean 0.02472
Std Dev 1.091

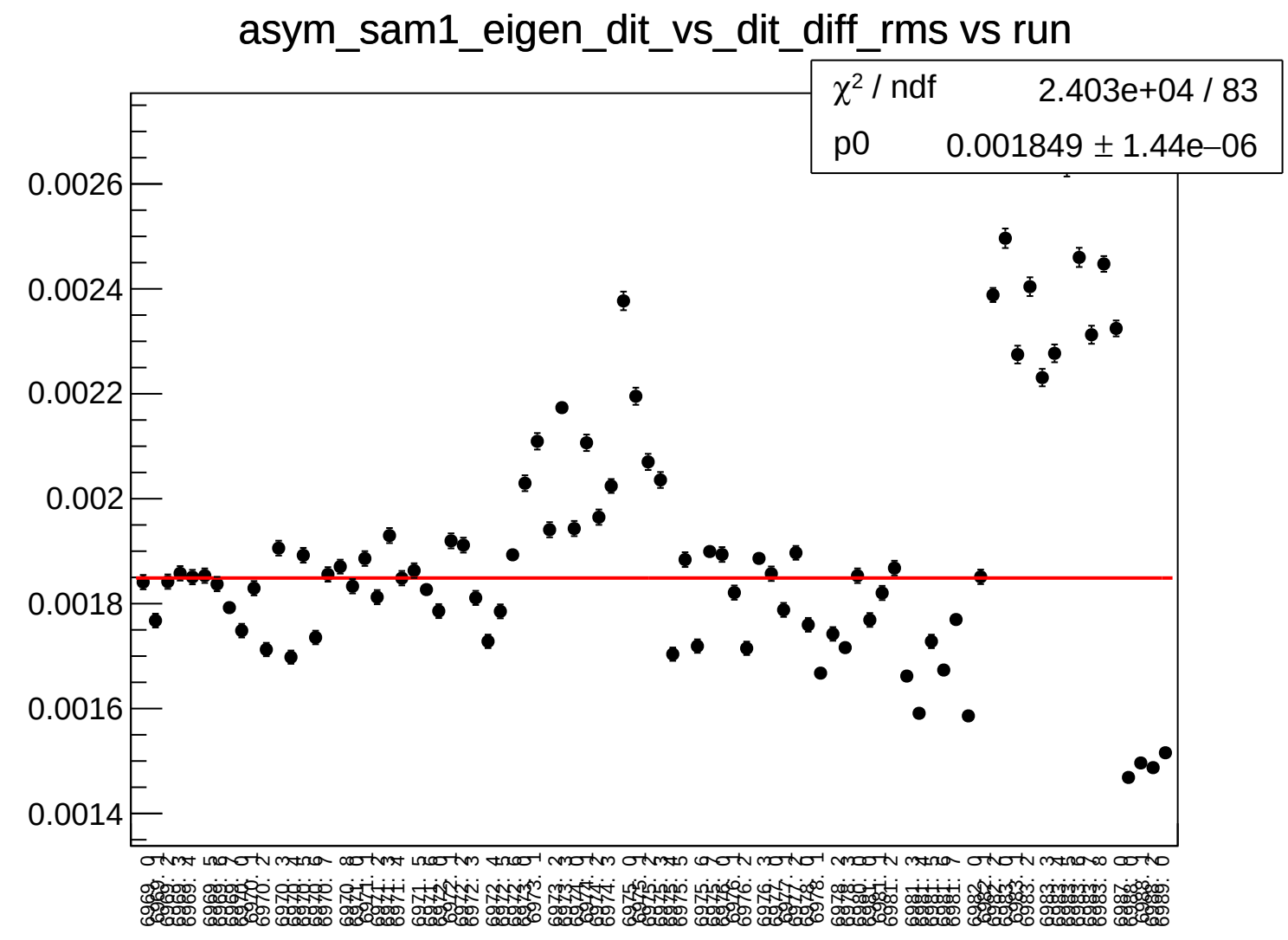

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.406e+04 / 83
p0 17.31 ± 0.01369
30
25
20
15
10
5

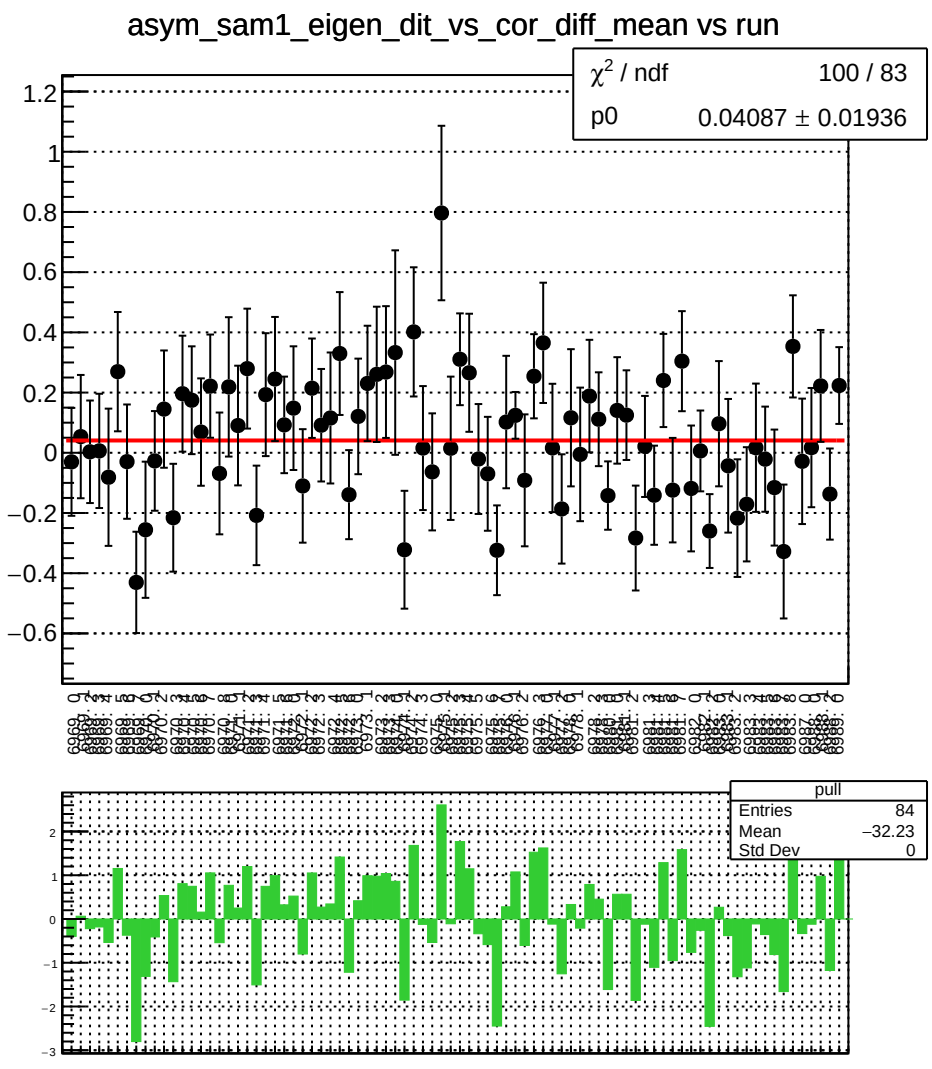

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100 / 83
p0 0.04087 ± 0.01936
pull
Entries 84
Mean −32.23
Std Dev 0

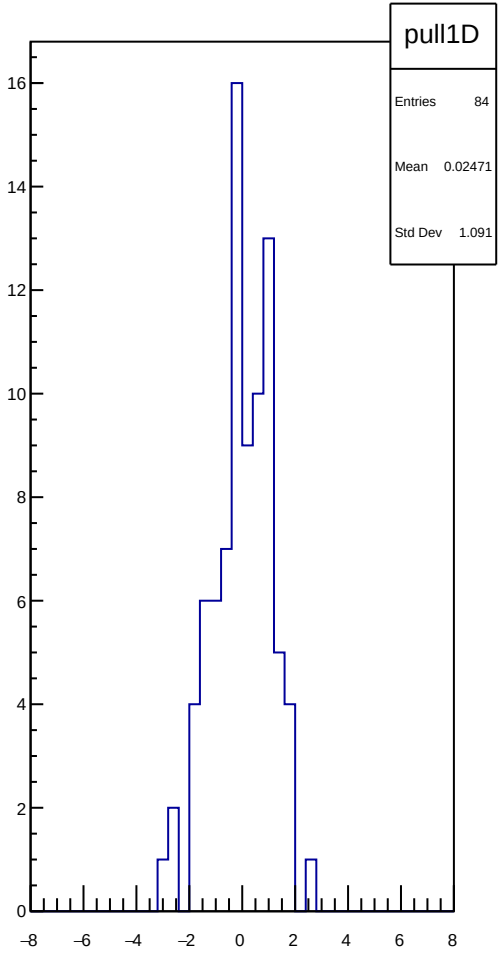

pull1D
Entries 84
Mean 0.02472
Std Dev 1.091

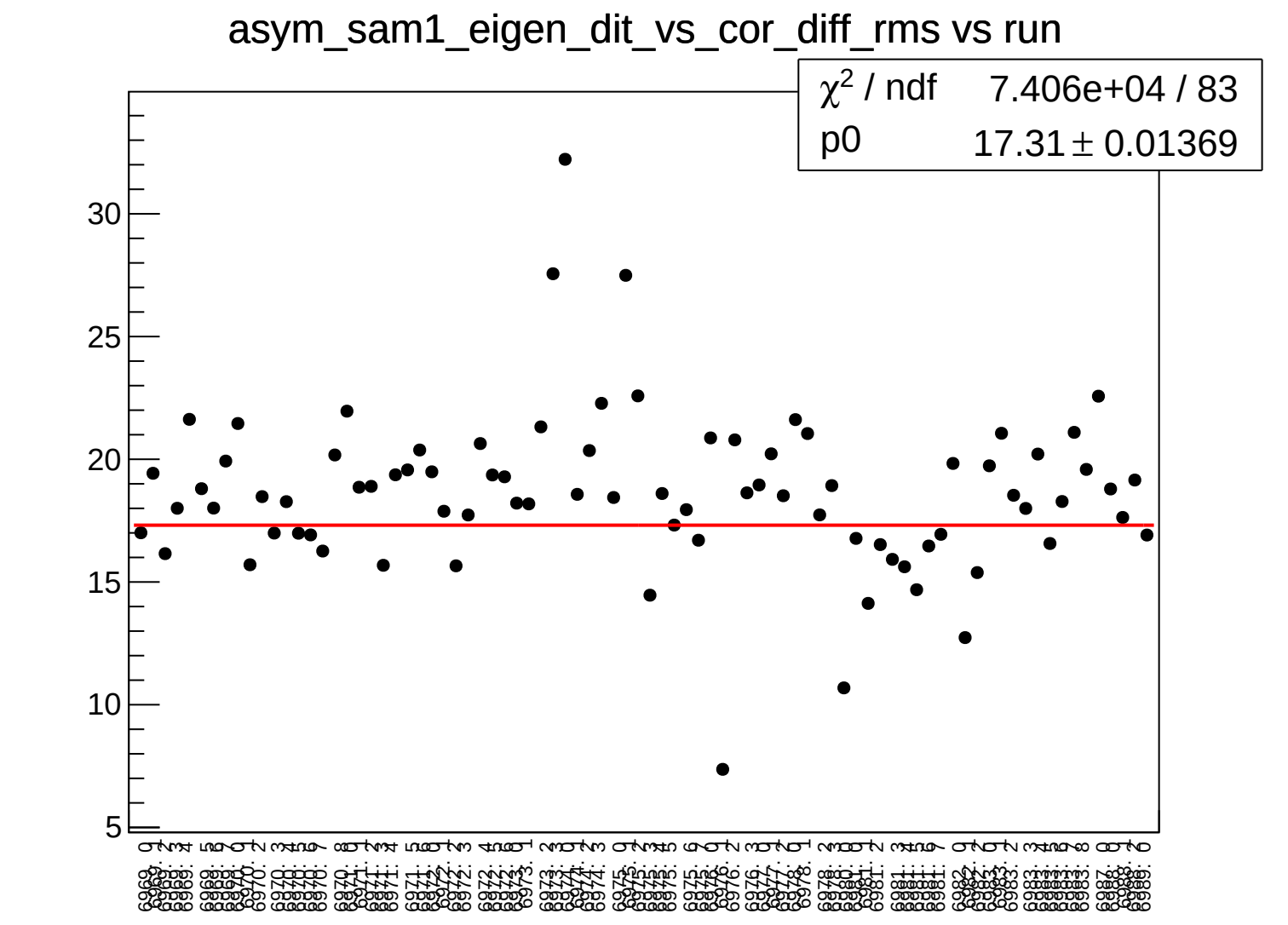

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.406e+04 / 83
p0 17.31 ± 0.01369
30
25
20
15
10
5

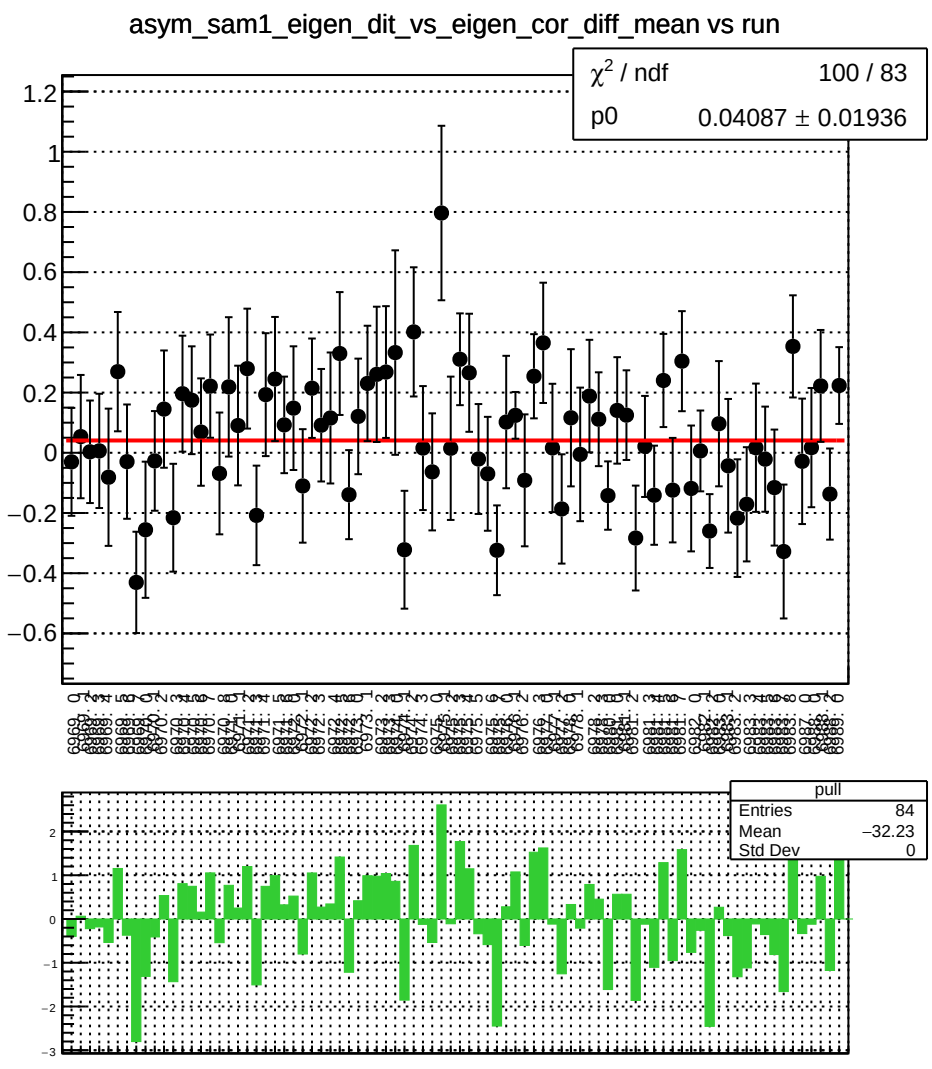

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 81.79 / 83
p0 2.342e−06 ± 2.036e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean 79.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.008877
Std Dev 0.9867
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

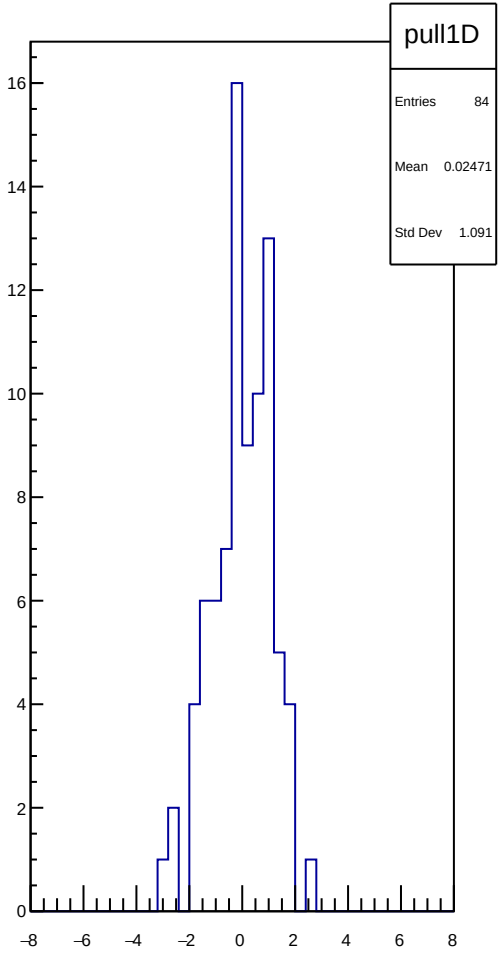

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.403e+04 / 83
p0 0.001849 ± 1.44e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

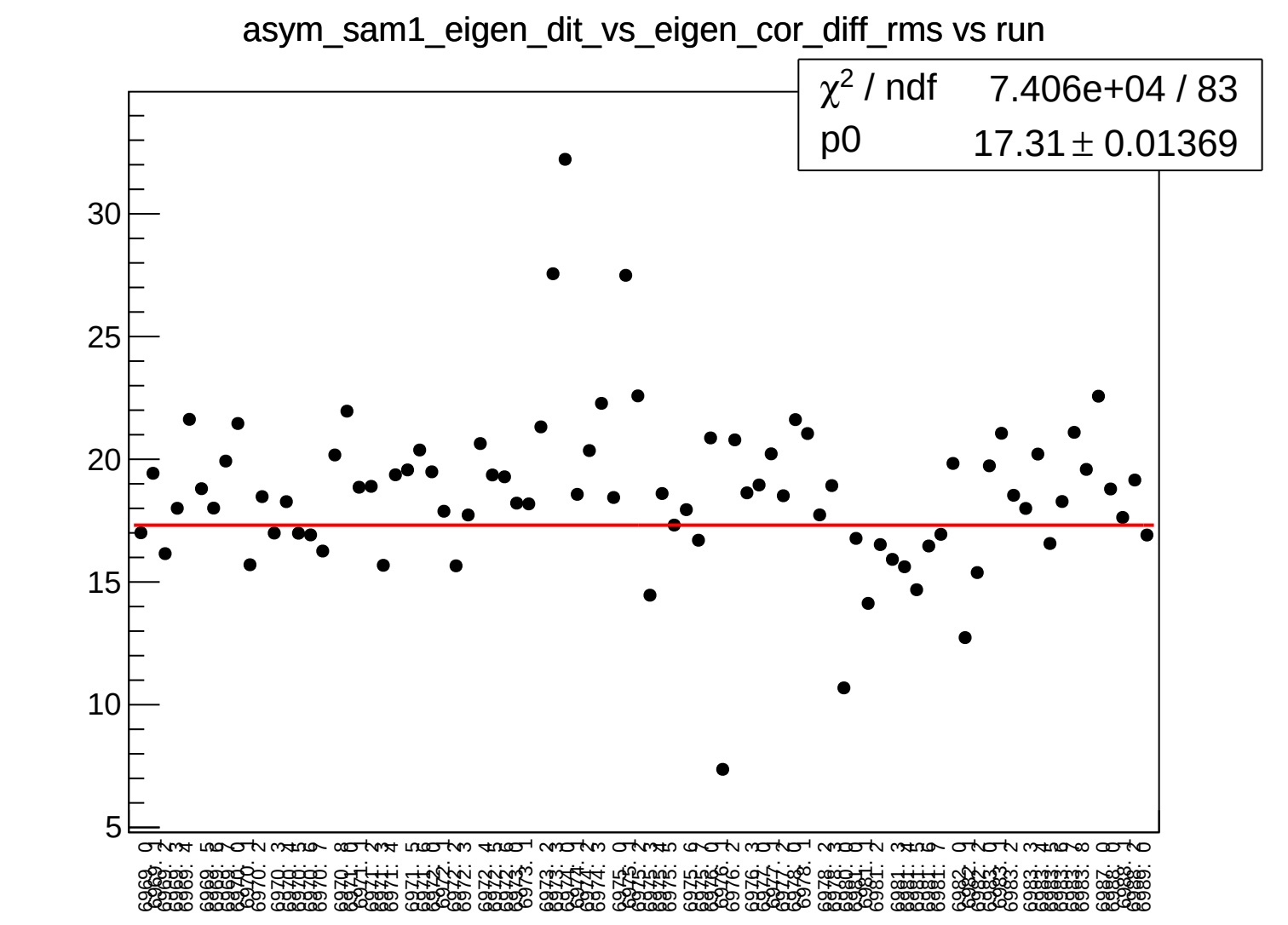

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100 / 83
p0 0.04087 ± 0.01936
pull
Entries 84
Mean −32.23
Std Dev 0

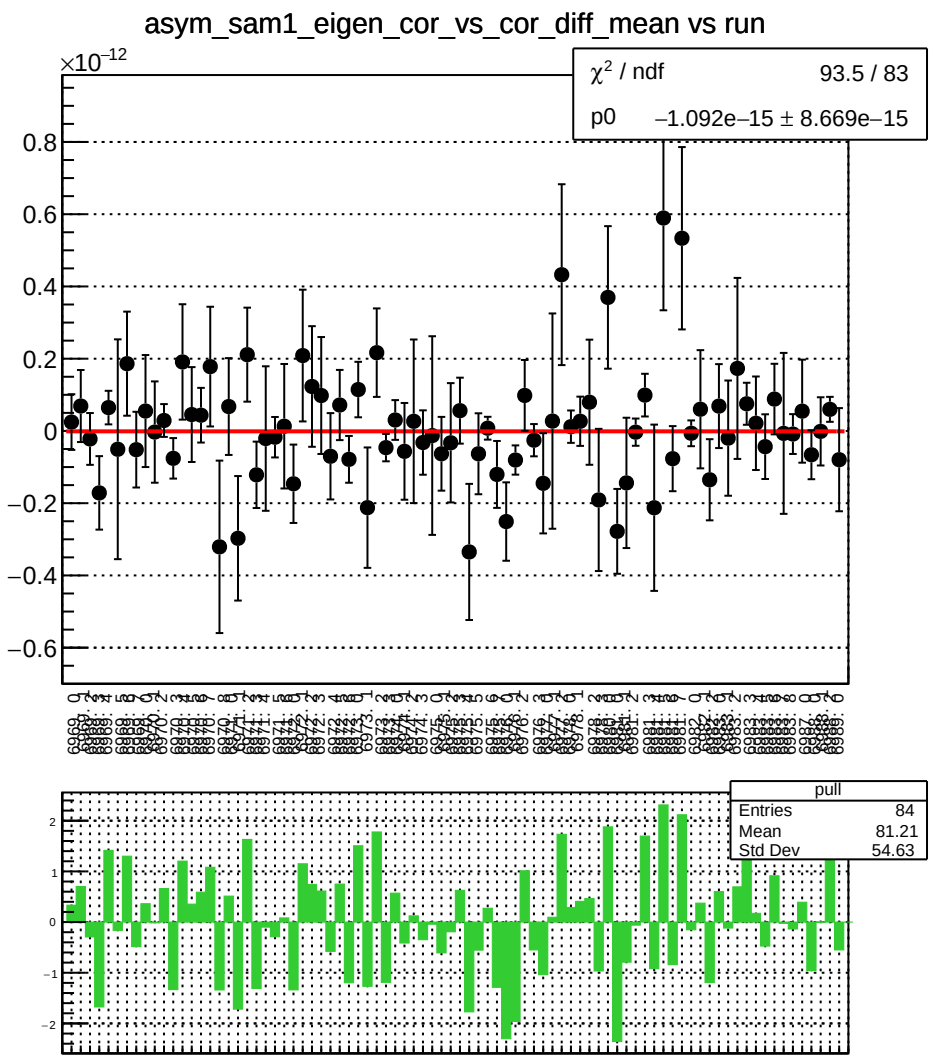

pull1D
Entries 84
Mean 0.02471
Std Dev 1.091

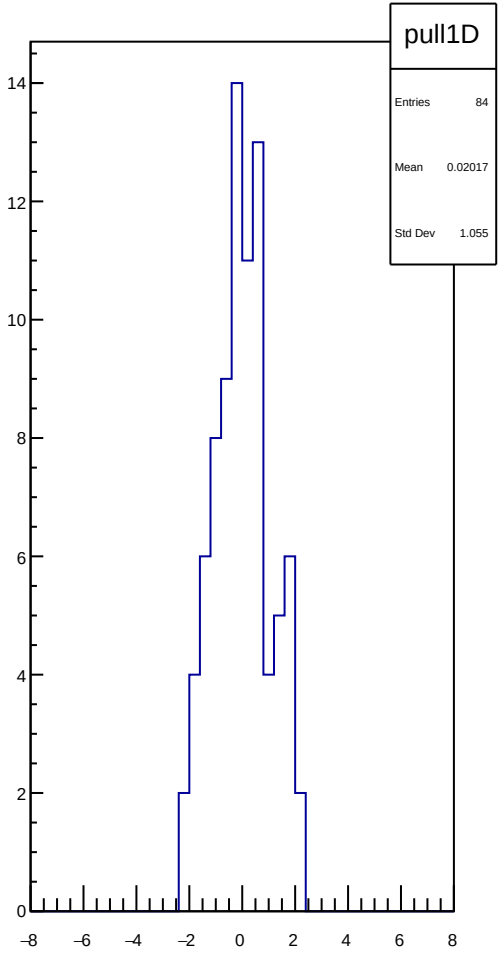

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.406e+04 / 83
p0 17.31 ± 0.01369
30
25
20
15
10
5

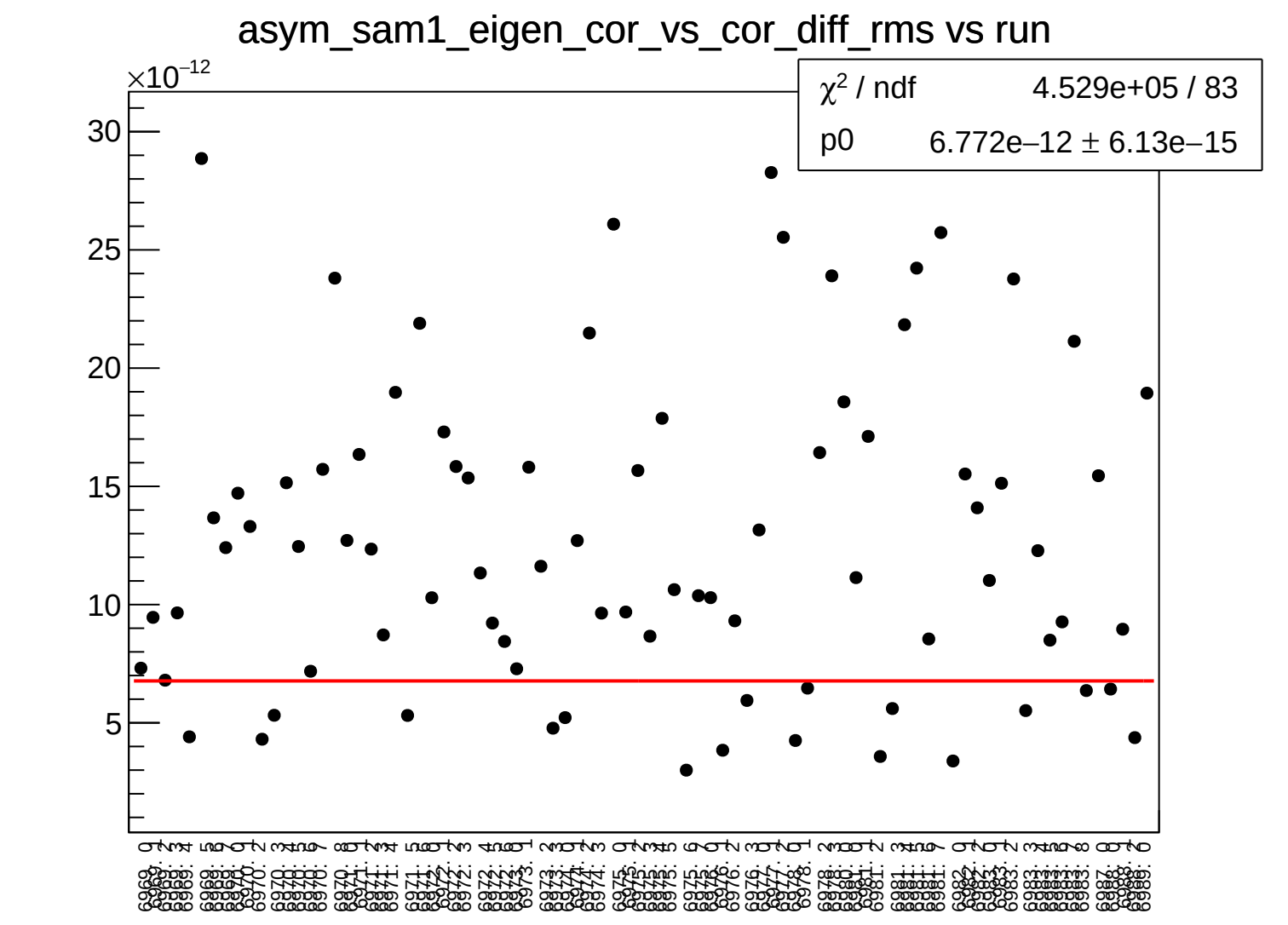

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100 / 83
p0 0.04087 ± 0.01936
pull
Entries 84
Mean −32.23
Std Dev 0

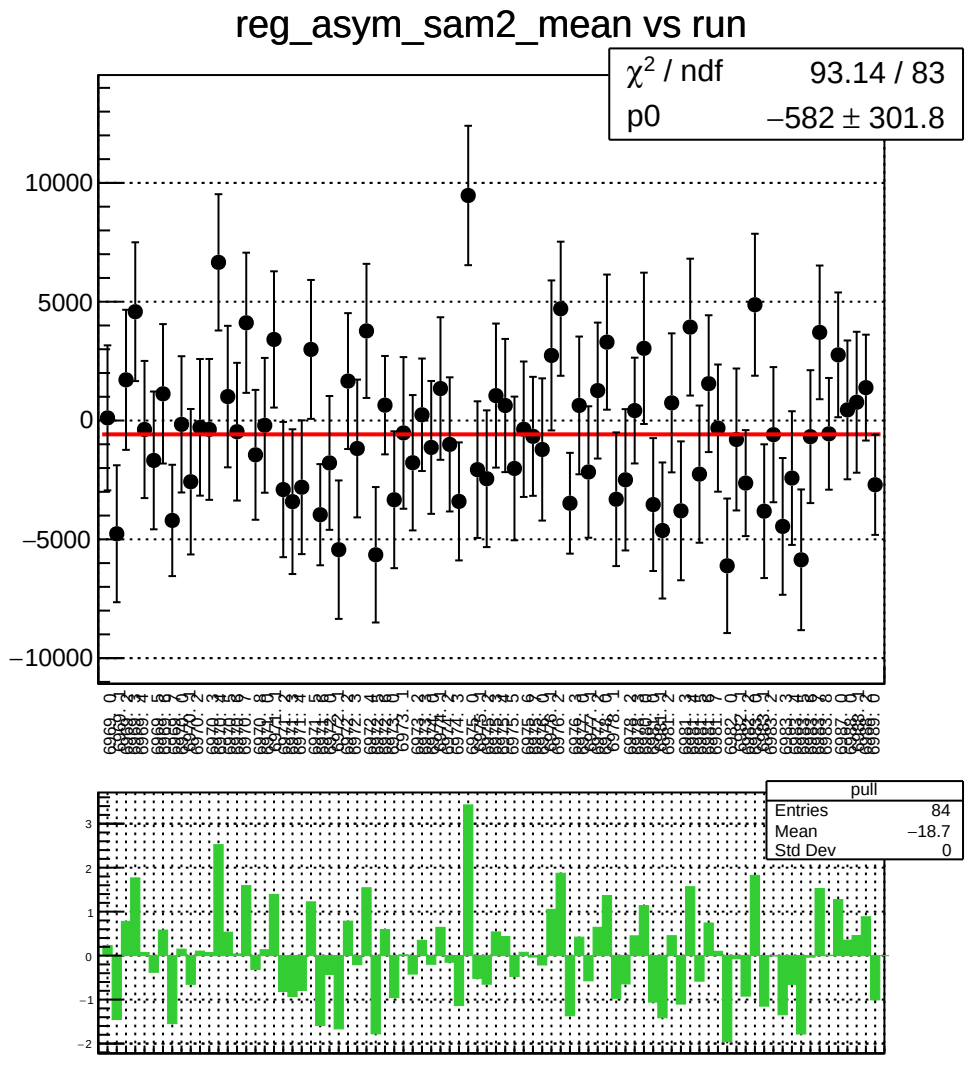

pull1D
Entries 84
Mean 0.02471
Std Dev 1.091

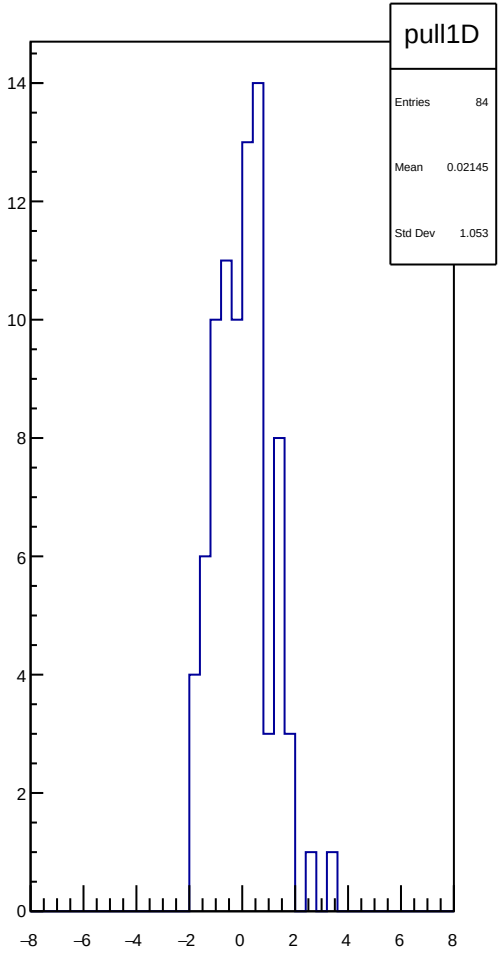

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.406e+04 / 83
p0 17.31 ± 0.01369
30
25
20
15
10
5

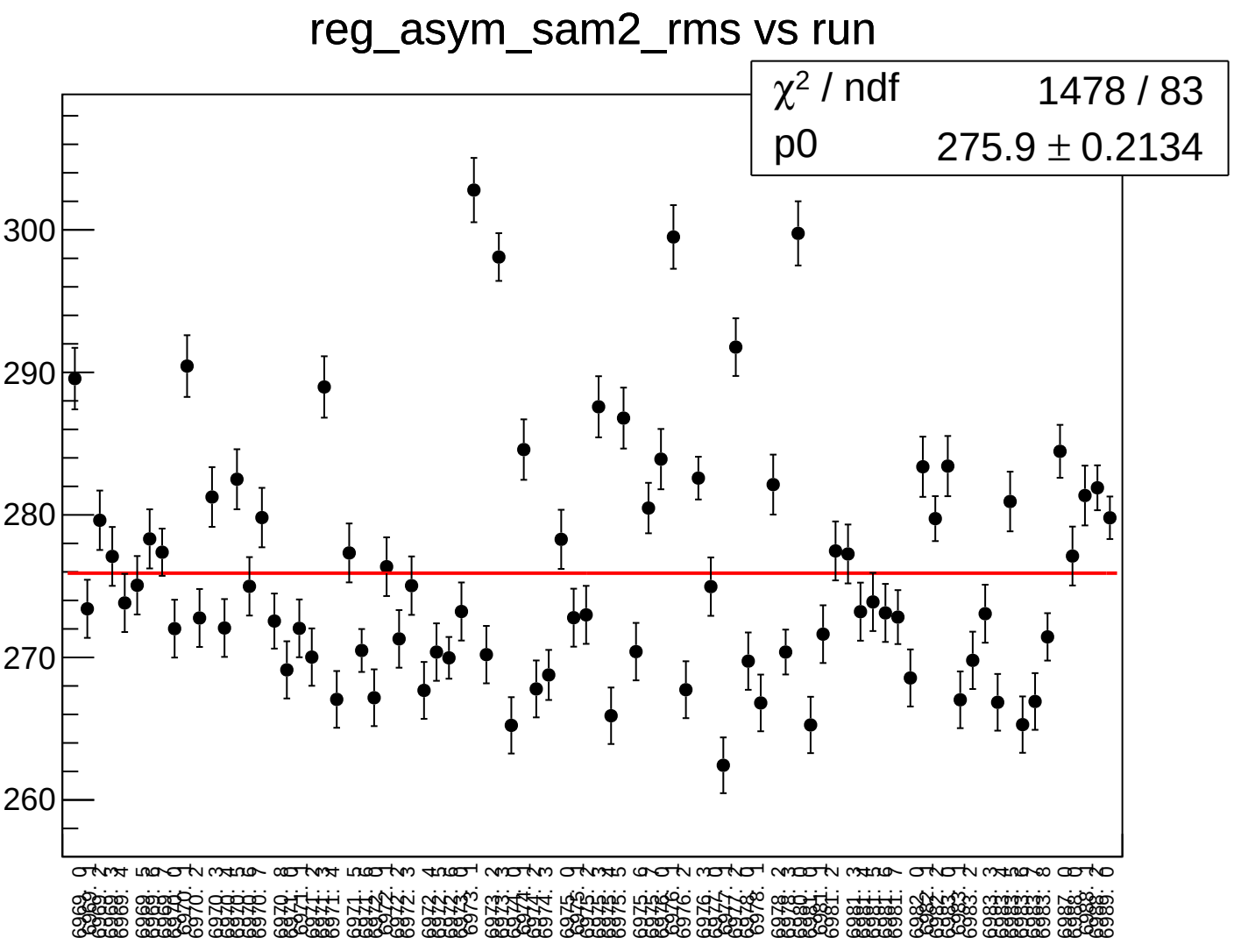

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.5 / 83
p0 −1.092e−15 ± 8.669e−15
pull
Entries 84
Mean 81.21
Std Dev 54.63

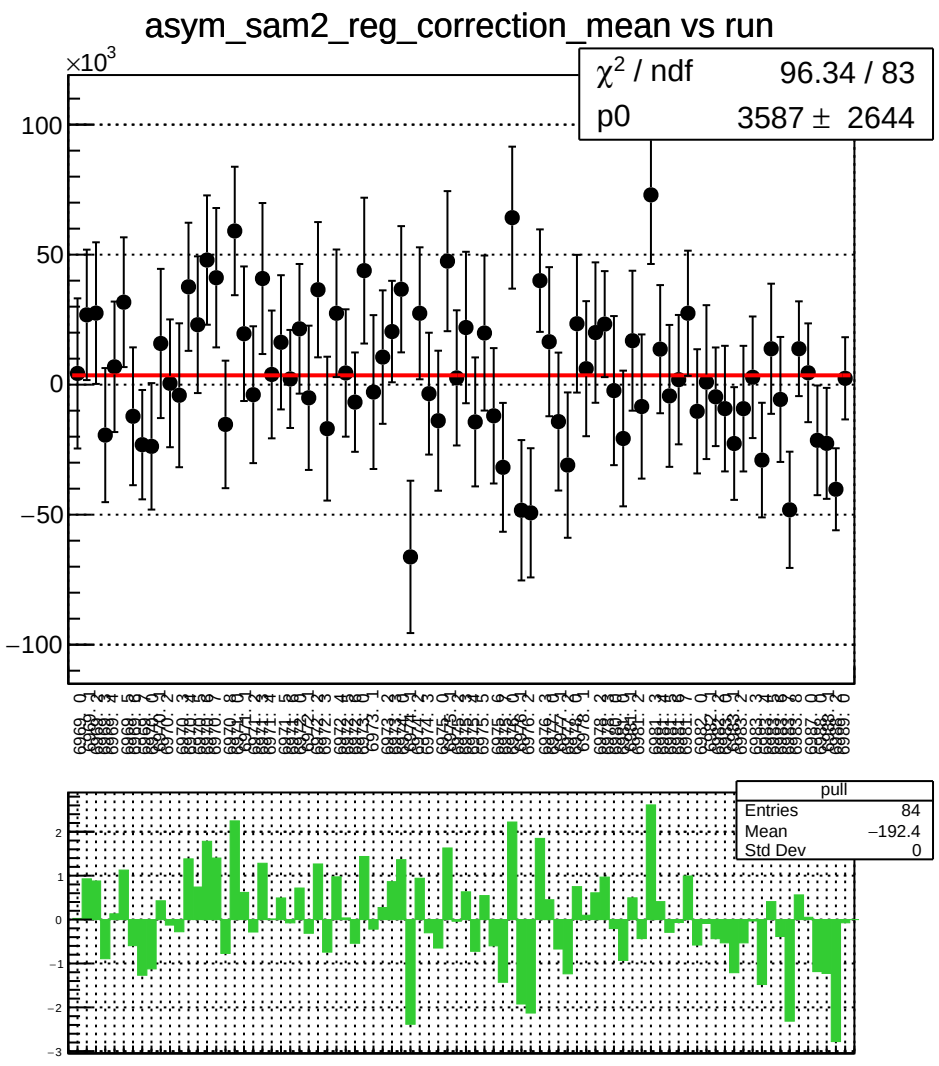

pull1D
Entries 84
Mean 0.02017
Std Dev 1.055

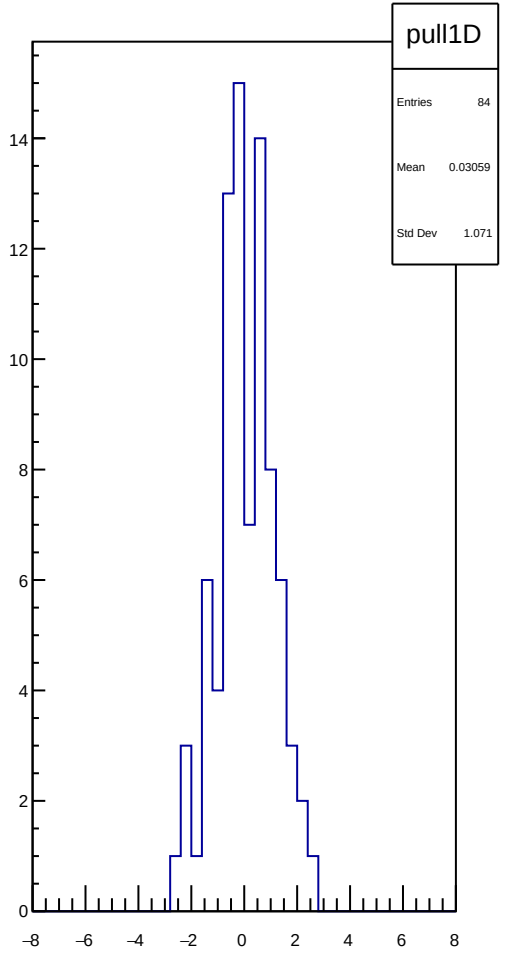

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.529e+05 / 83
p0 6.772e−12 ± 6.13e−15
30
25
20
15
10
5

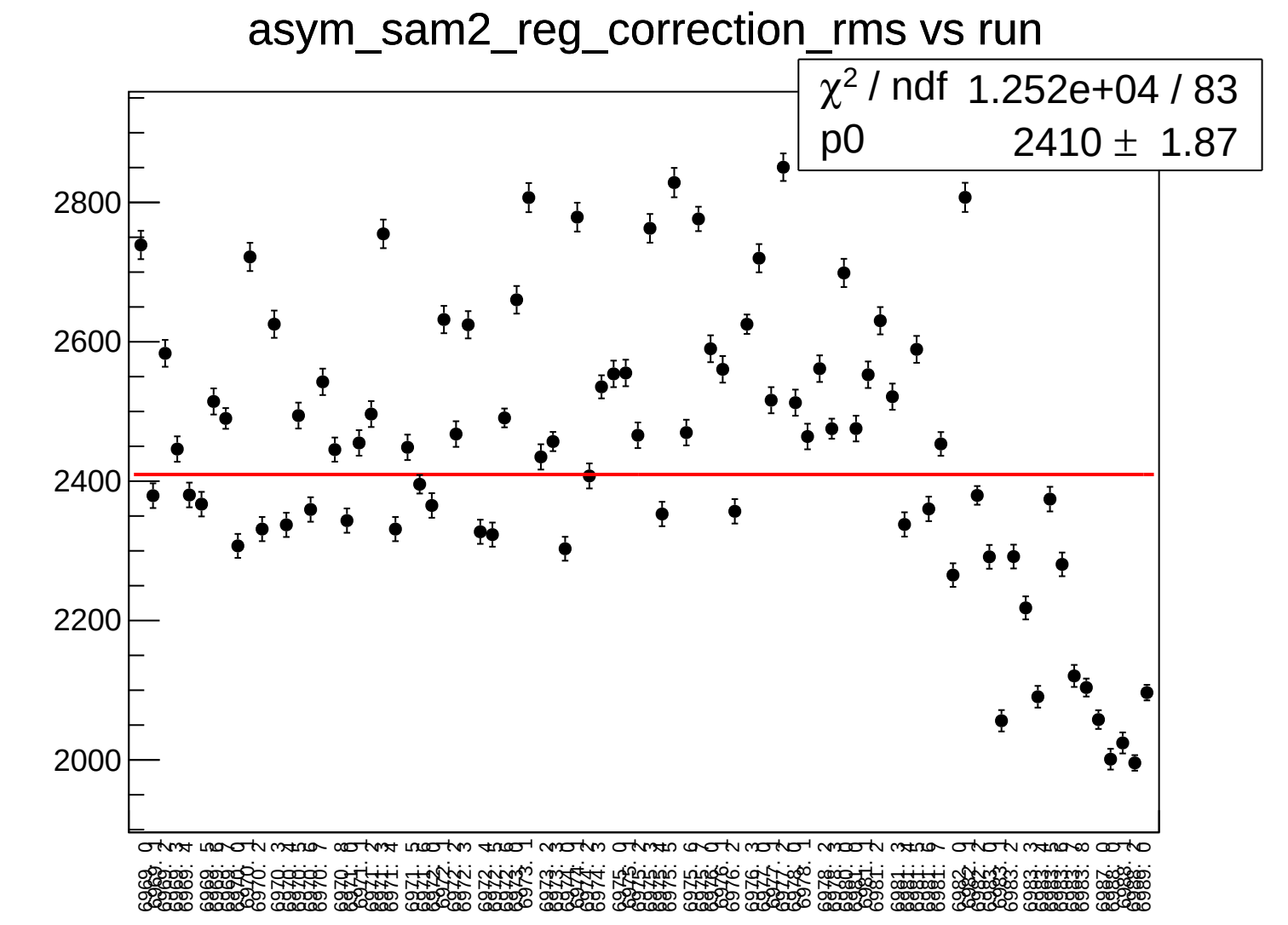

reg_asym_sam2_mean vs run
χ² / ndf 93.14 / 83
p0 −582 ± 301.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −18.7
Std Dev 0
3
2
1
0
−1
−2

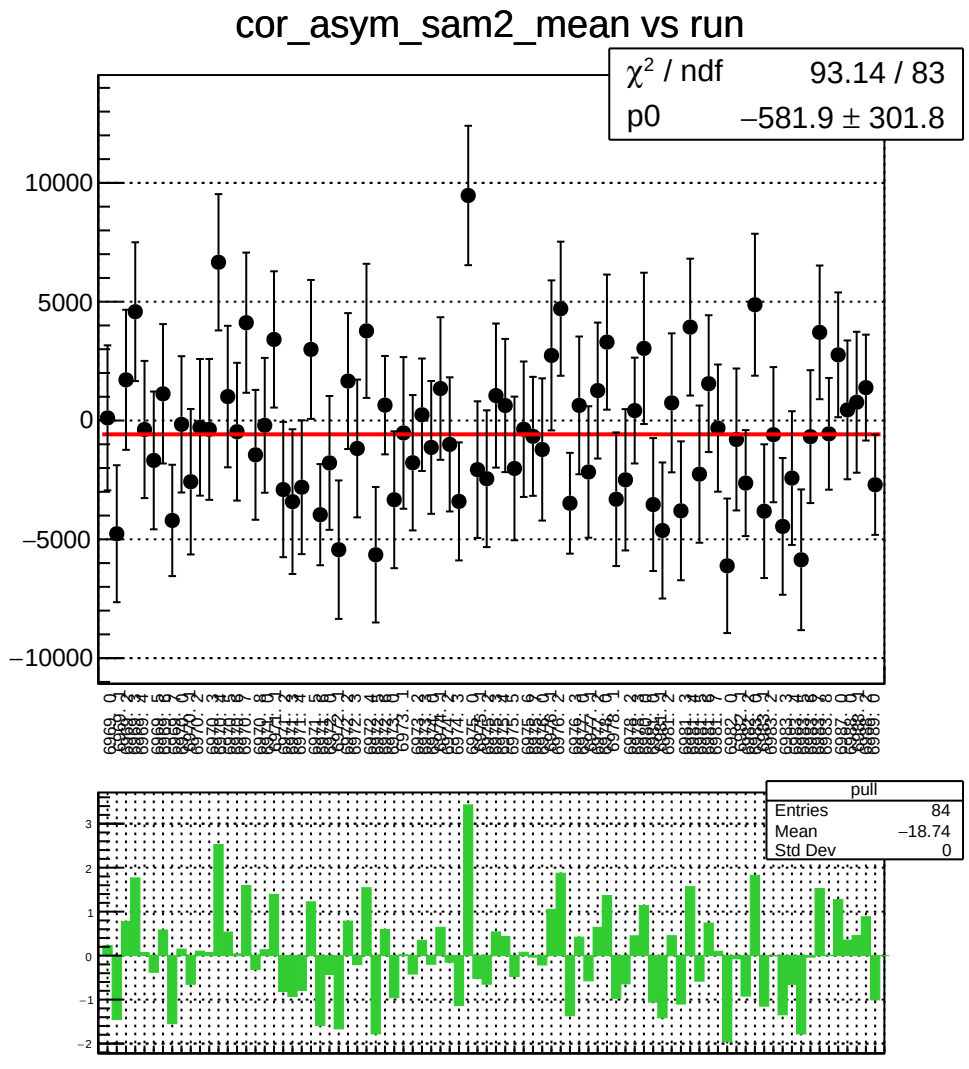

pull1D
Entries 84
Mean 0.02145
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

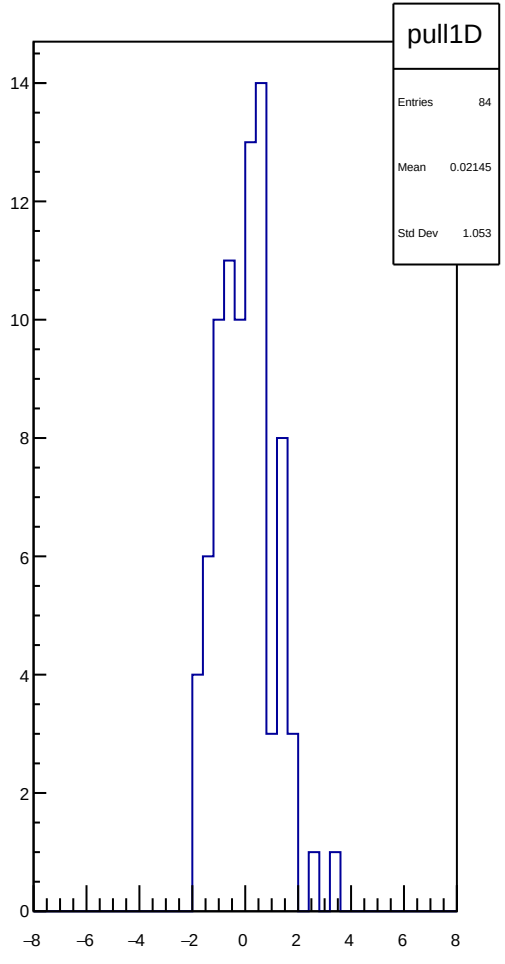

reg_asym_sam2_rms vs run
χ² / ndf 1478 / 83
p0 275.9 ± 0.2134
300
290
280
270
260


asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 96.34 / 83
p0 3587 ± 2644
100
50
0
−50
−100
pull
Entries 84
Mean −192.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 84
Mean 0.03059
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_reg_correction_rms vs run
χ² / ndf 1.252e+04 / 83
p0 2410 ± 1.87
2800
2600
2400
2200
2000


cor_asym_sam2_mean vs run
χ² / ndf 93.14 / 83
p0 −581.9 ± 301.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −18.74
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.02145
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
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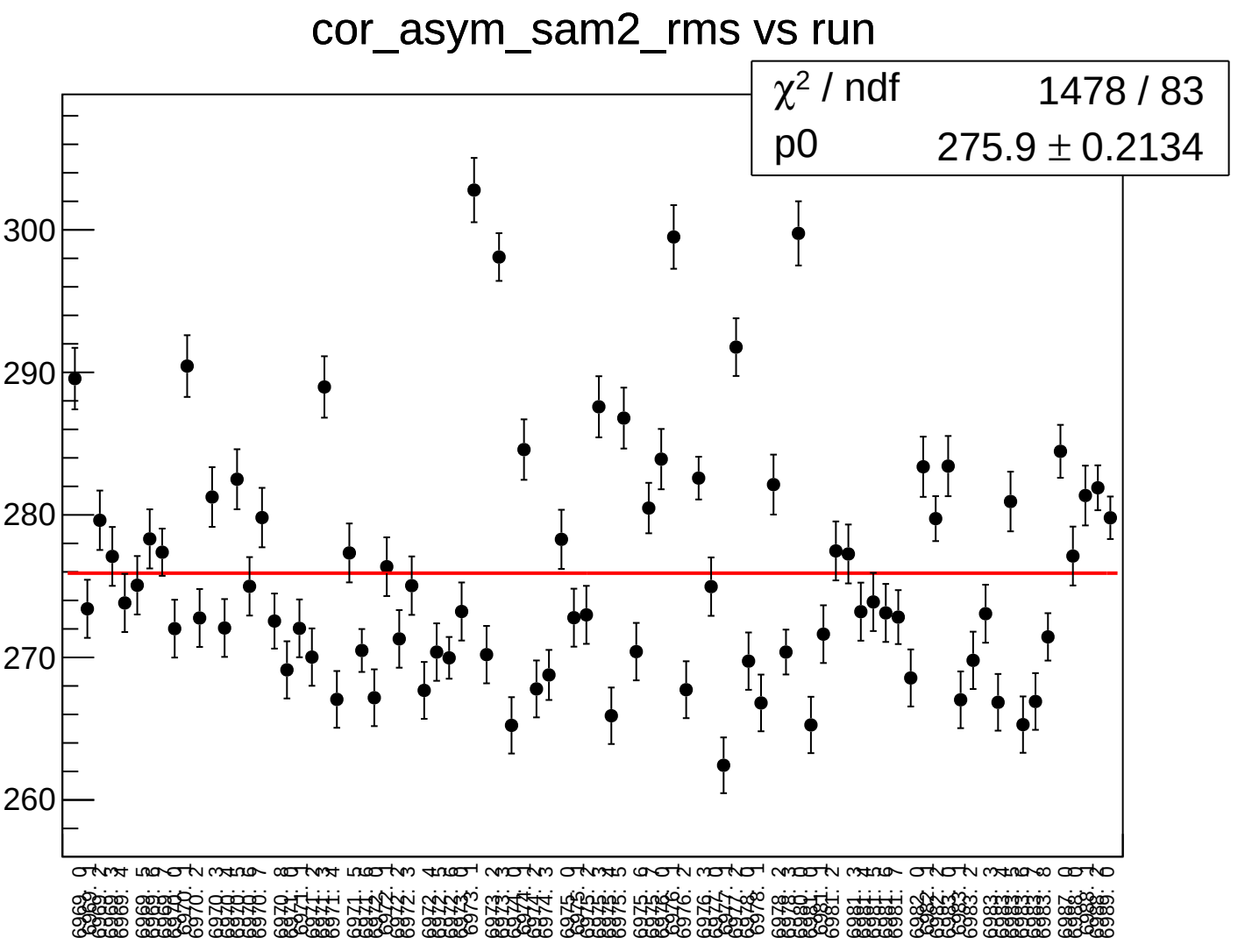
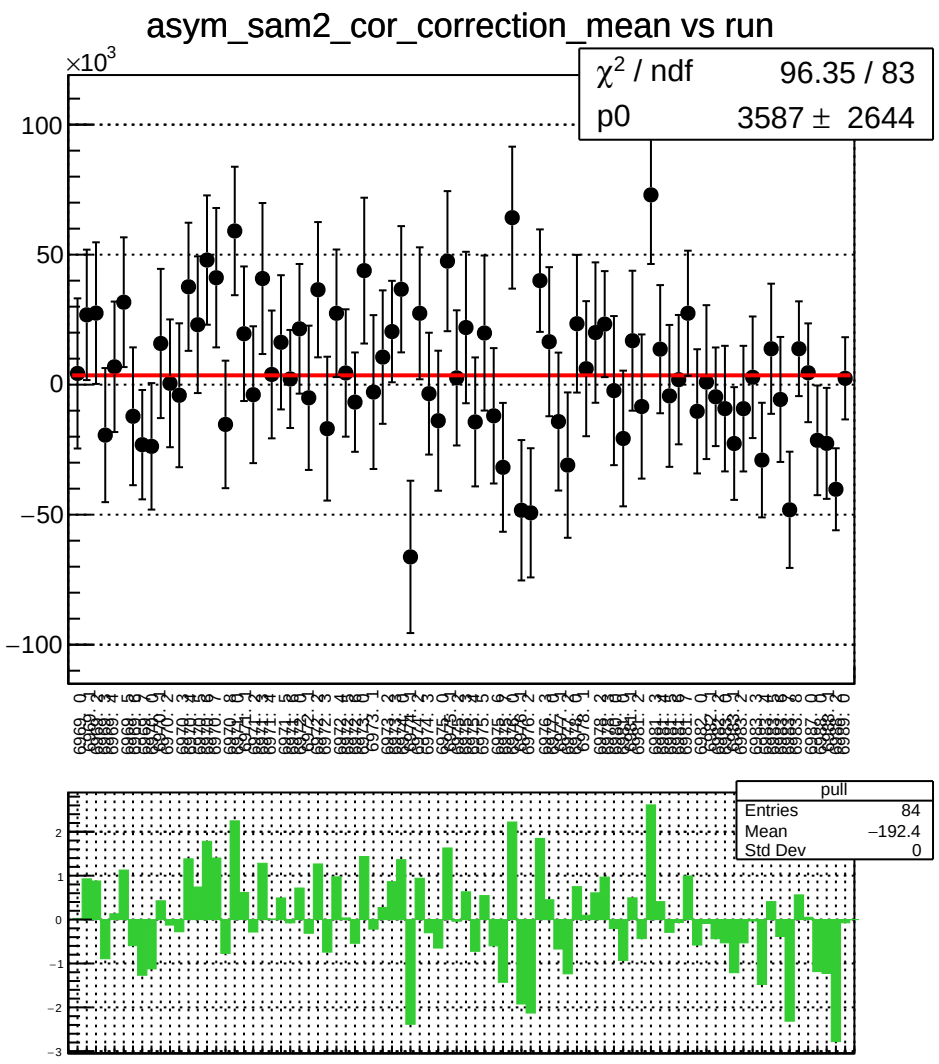
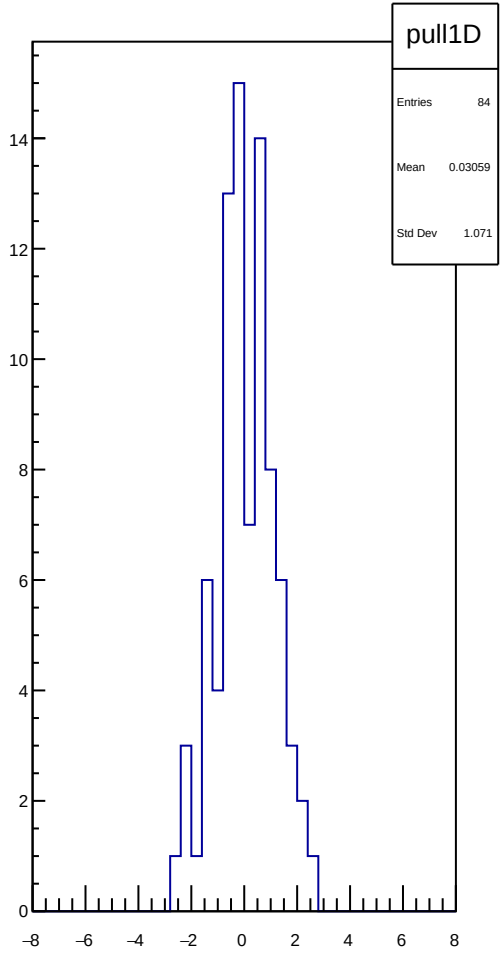
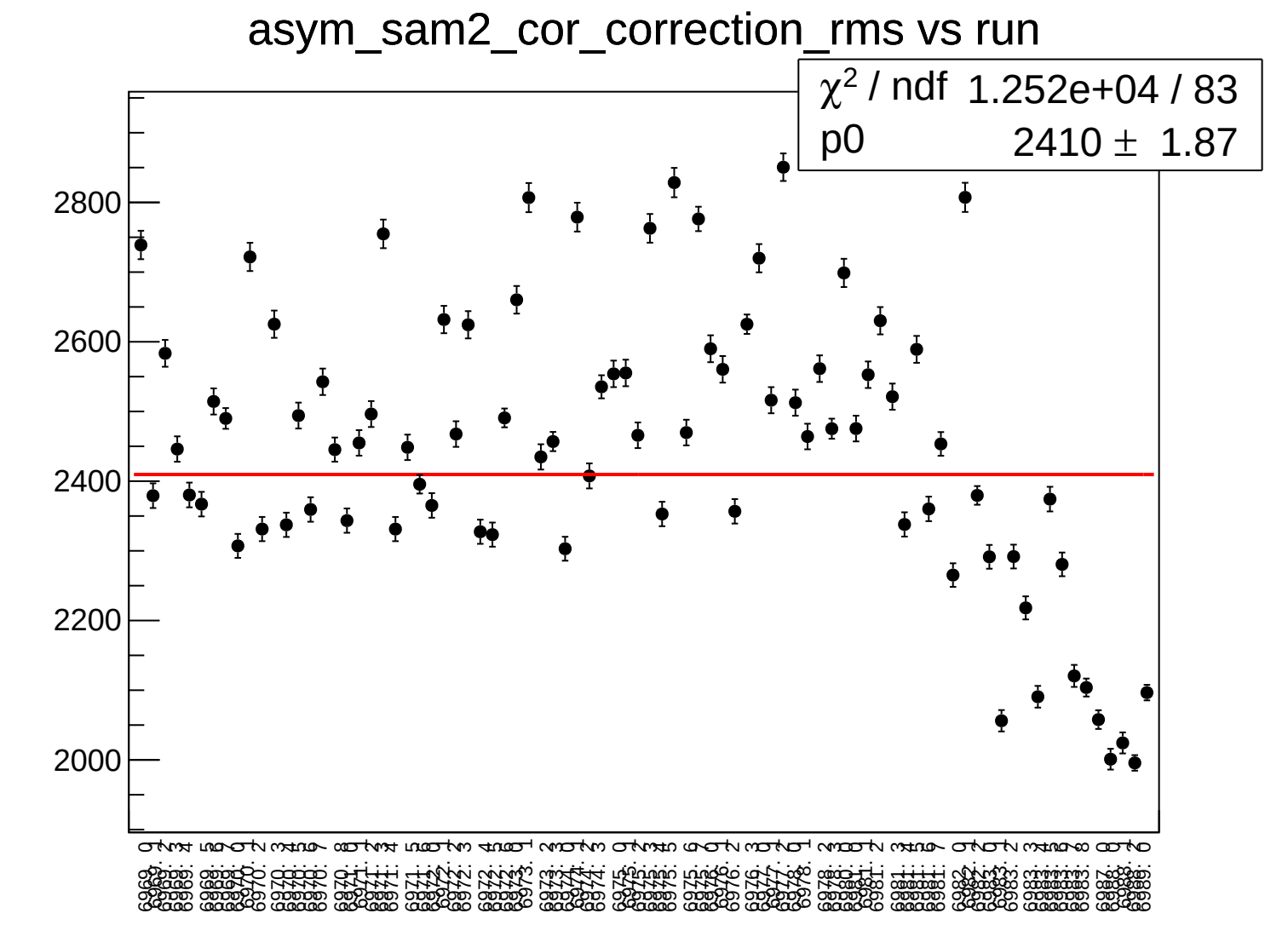
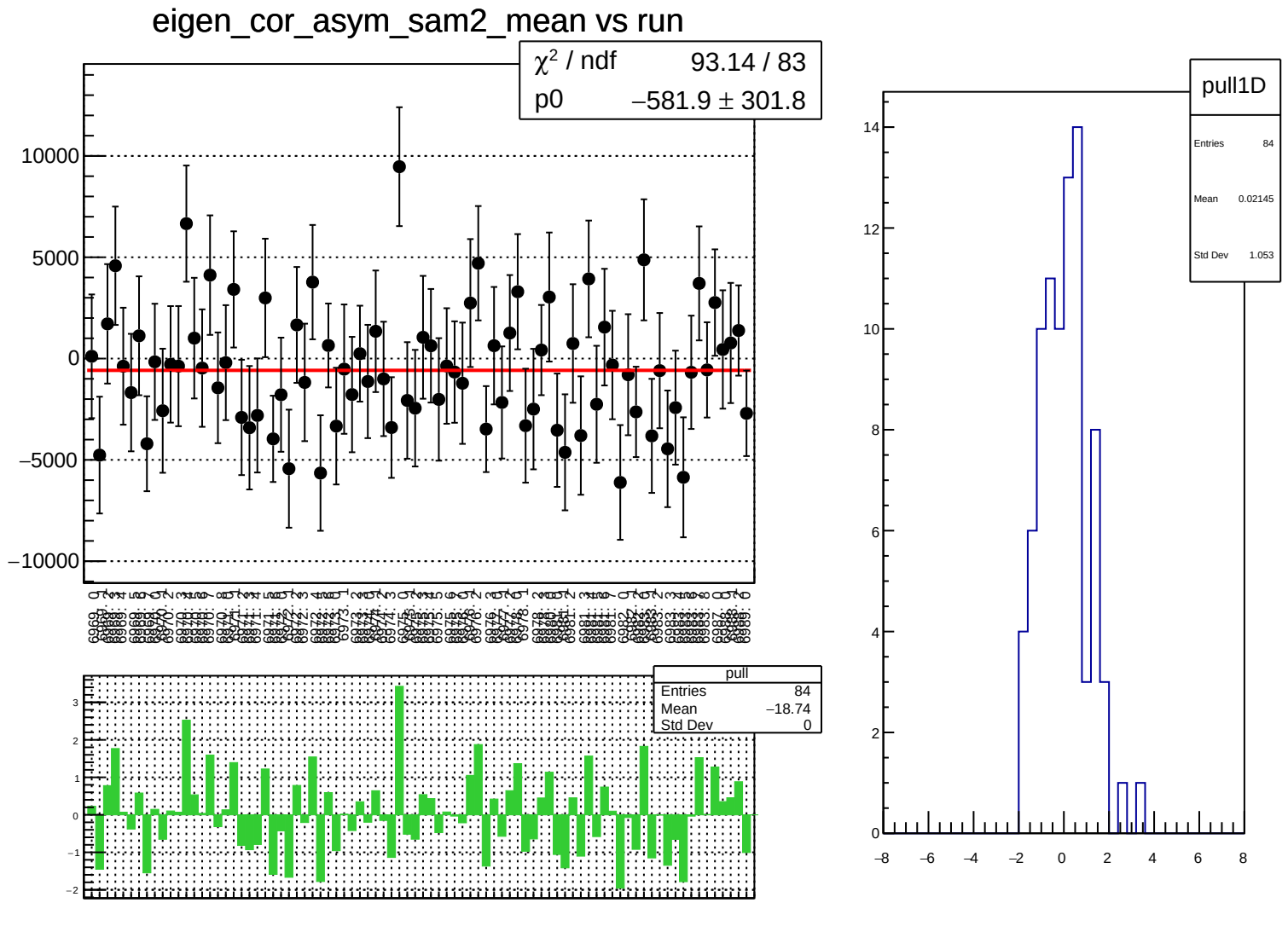
0
2
4
6
8

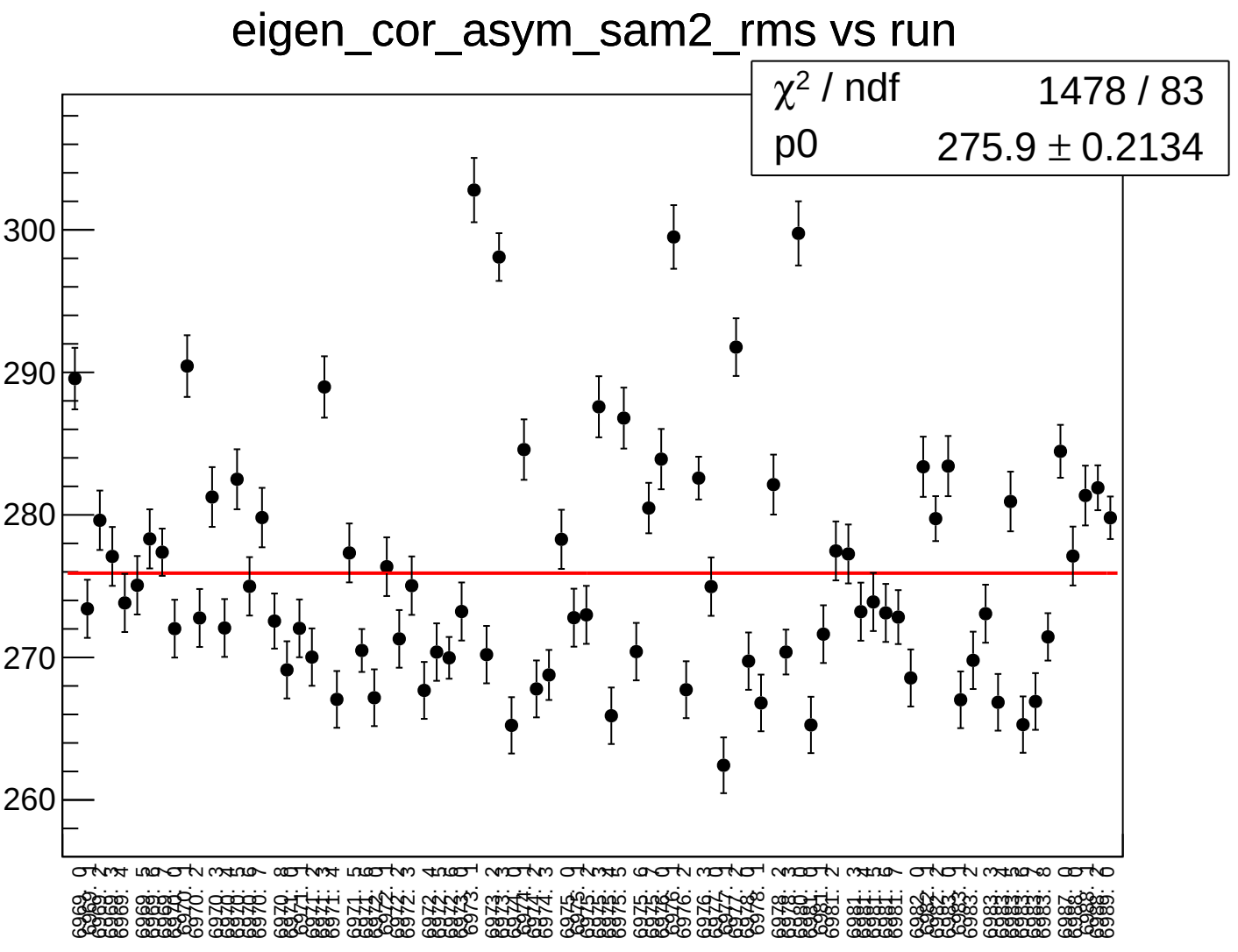

cor_asym_sam2_rms vs run
χ² / ndf 1478 / 83
p0 275.9 ± 0.2134
300
290
280
270
260

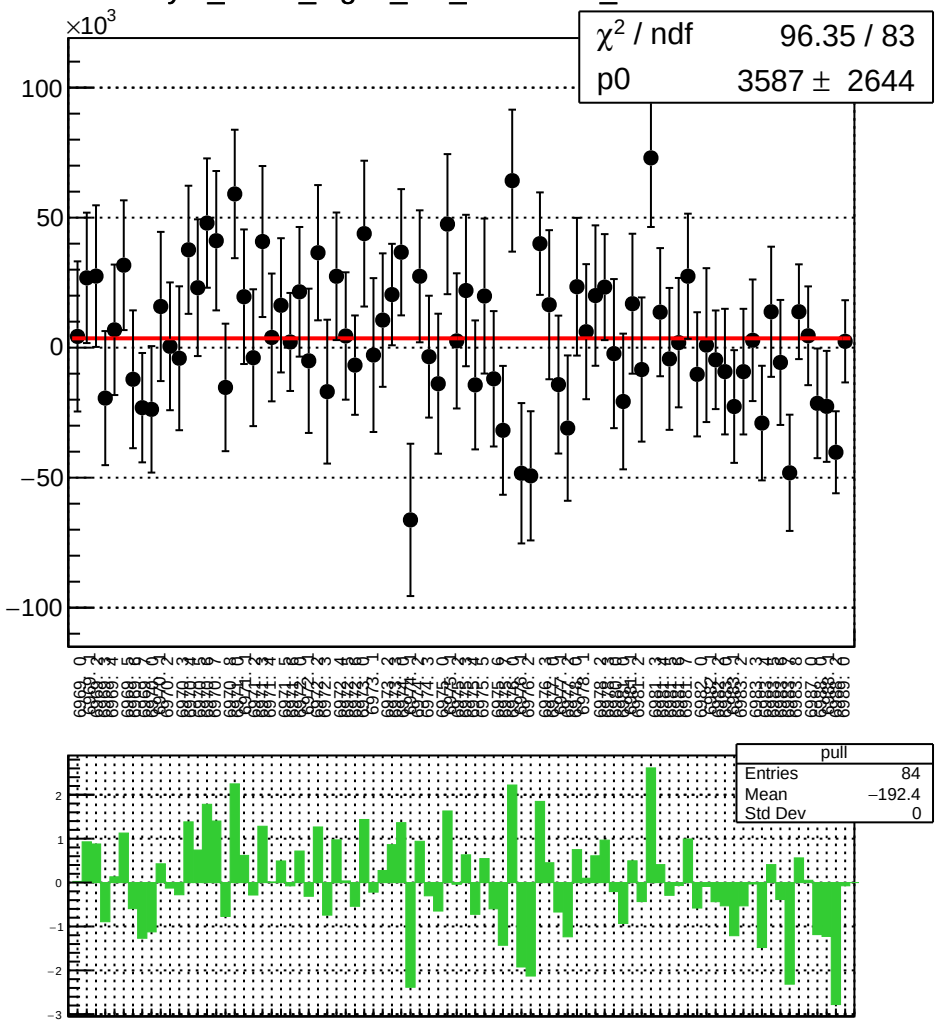

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 96.35 / 83
p0 3587 ± 2644
100
50
0
−50
−100
pull
Entries 84
Mean −192.4
Std Dev 0
2
1
0
−1
−2
−3

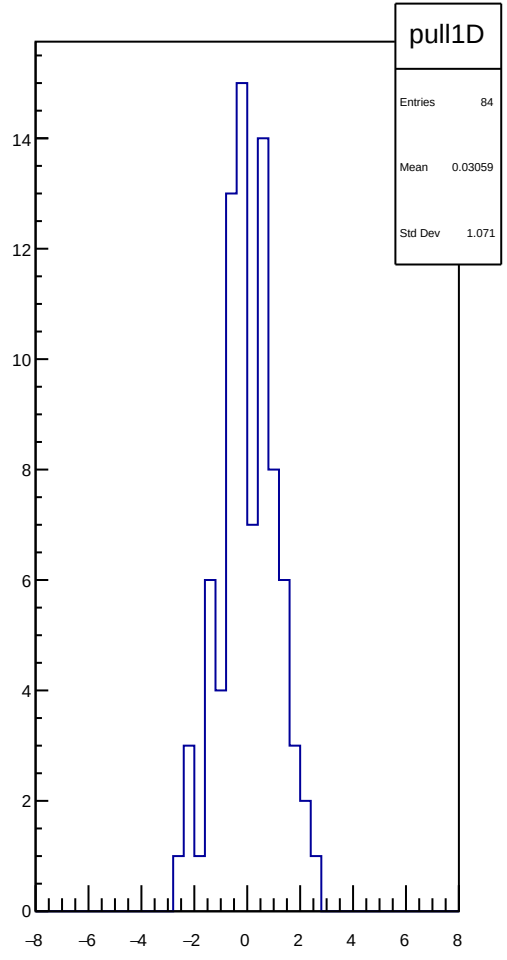

pull1D
Entries 84
Mean 0.03059
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

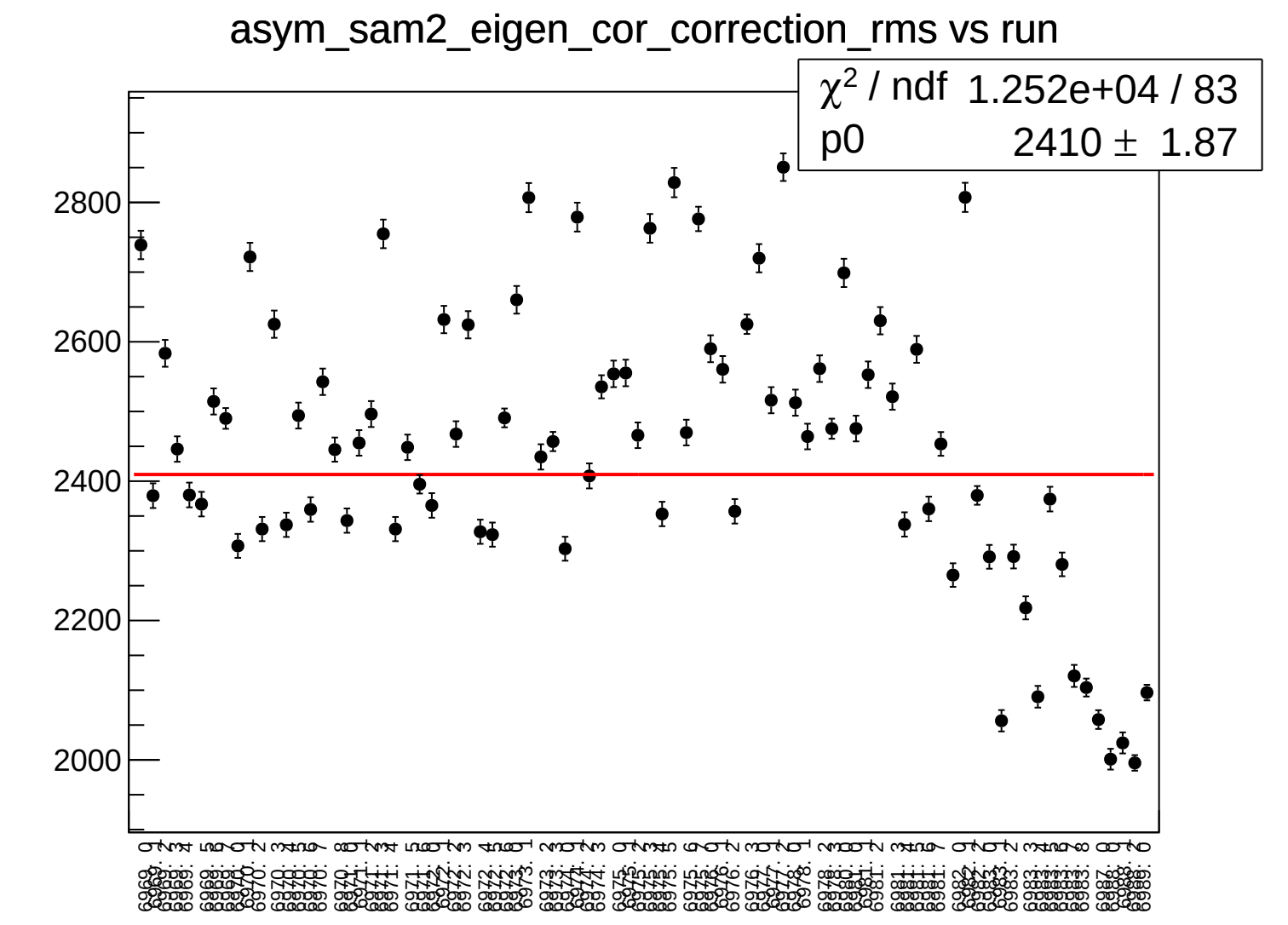

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.252e+04 / 83
p0 2410 ± 1.87
2800
2600
2400
2200
2000

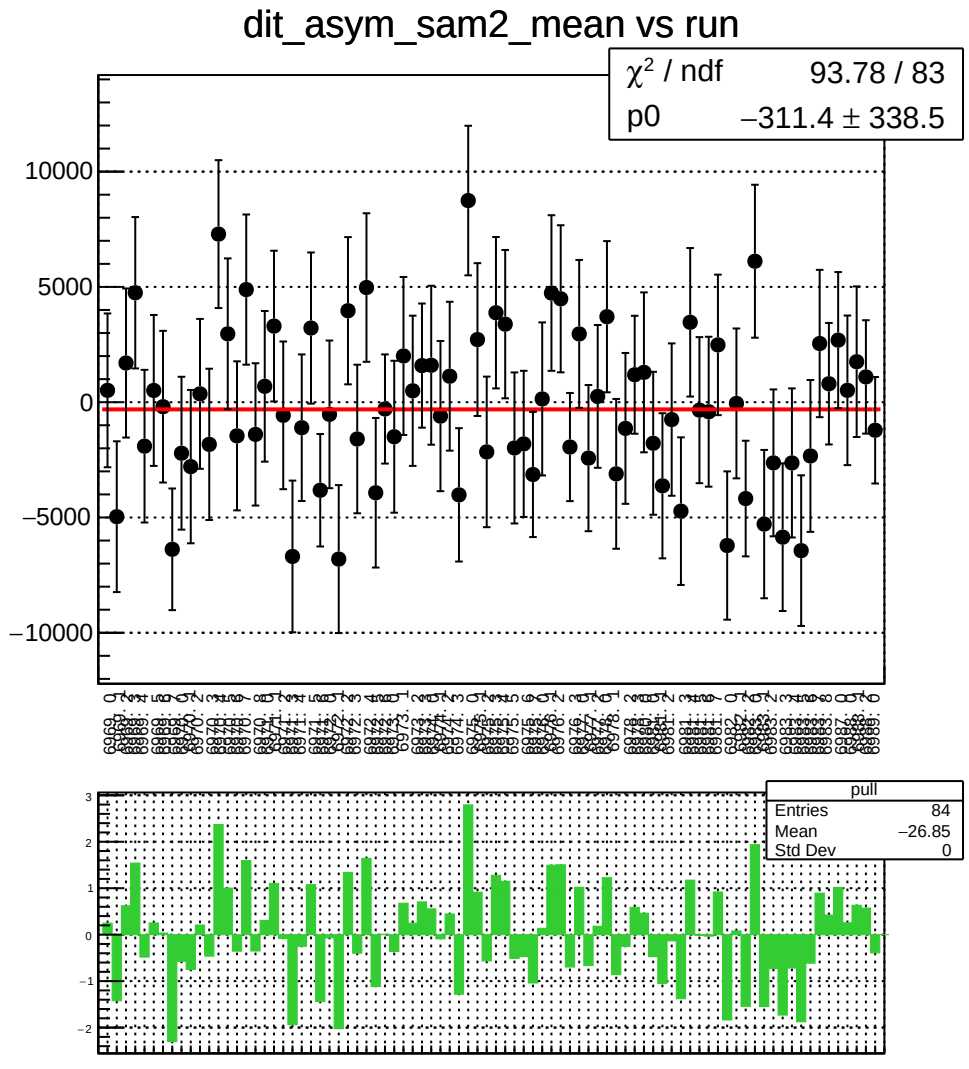

eigen_cor_asym_sam2_mean vs run
χ² / ndf 93.14 / 83
p0 −581.9 ± 301.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −18.74
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.02145
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

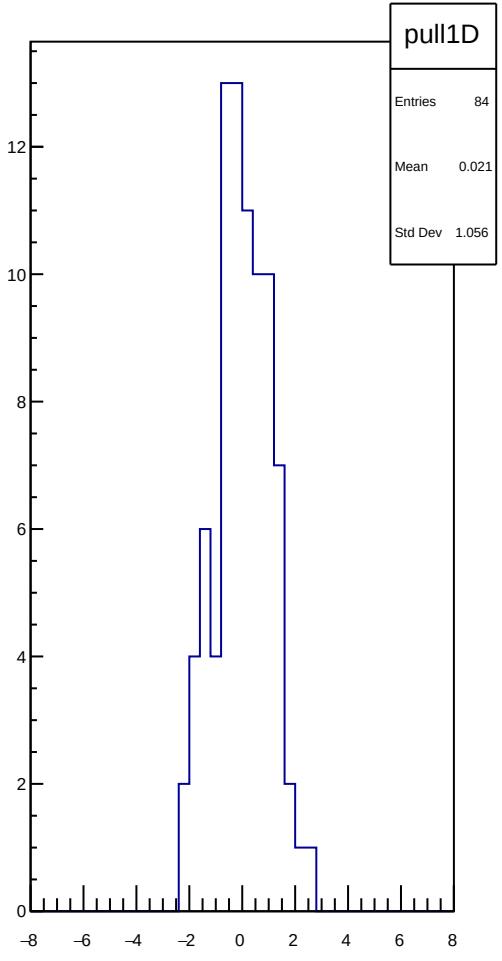

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1478 / 83
p0 275.9 ± 0.2134
300
290
280
270
260


asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.35 / 83
p0 3587 ± 2644
100
50
0
−50
−100
pull
Entries 84
Mean −192.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 84
Mean 0.03059
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.252e+04 / 83
p0 2410 ± 1.87
2800
2600
2400
2200
2000


dit_asym_sam2_mean vs run
χ² / ndf 93.78 / 83
p0 −311.4 ± 338.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −26.85
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.021
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
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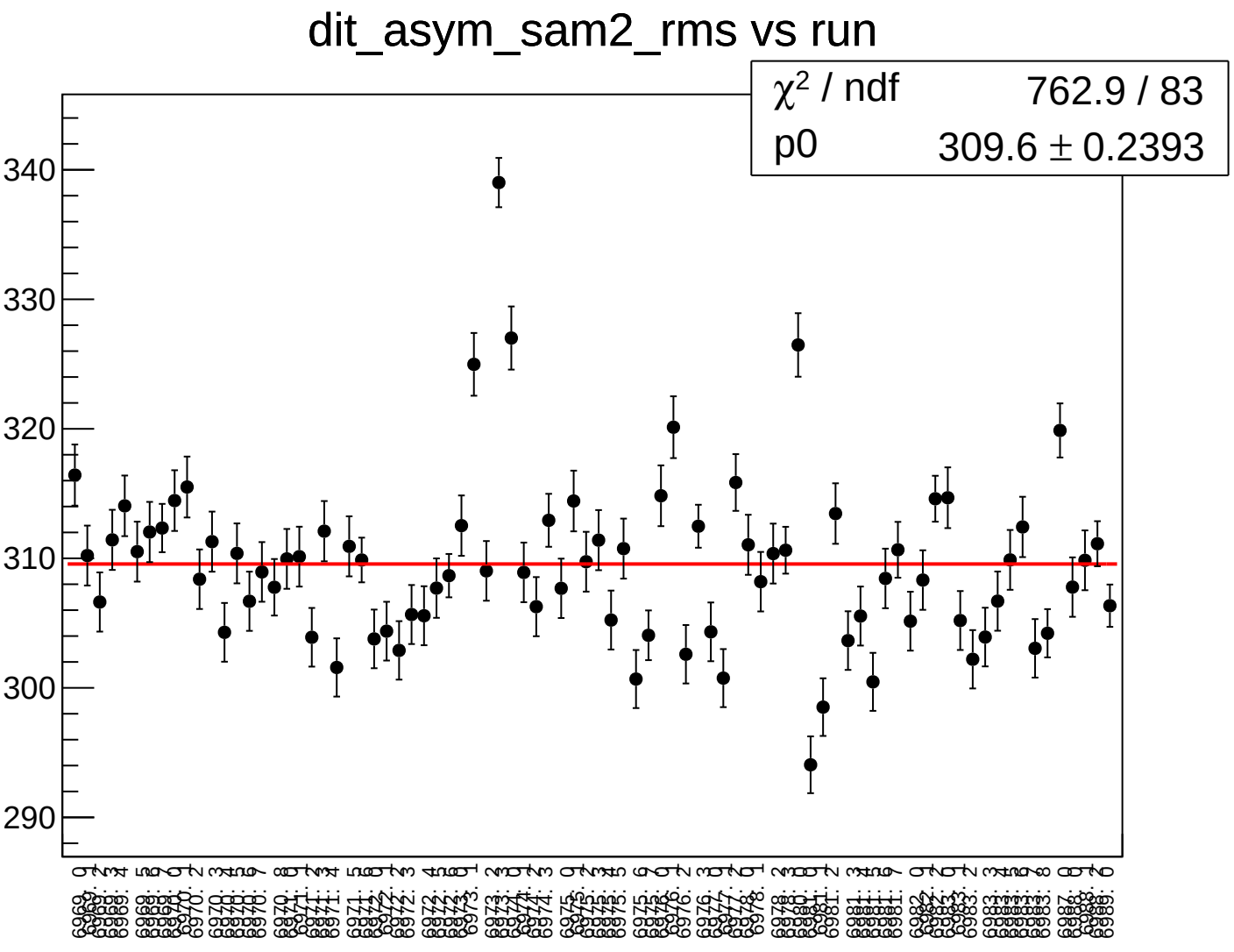
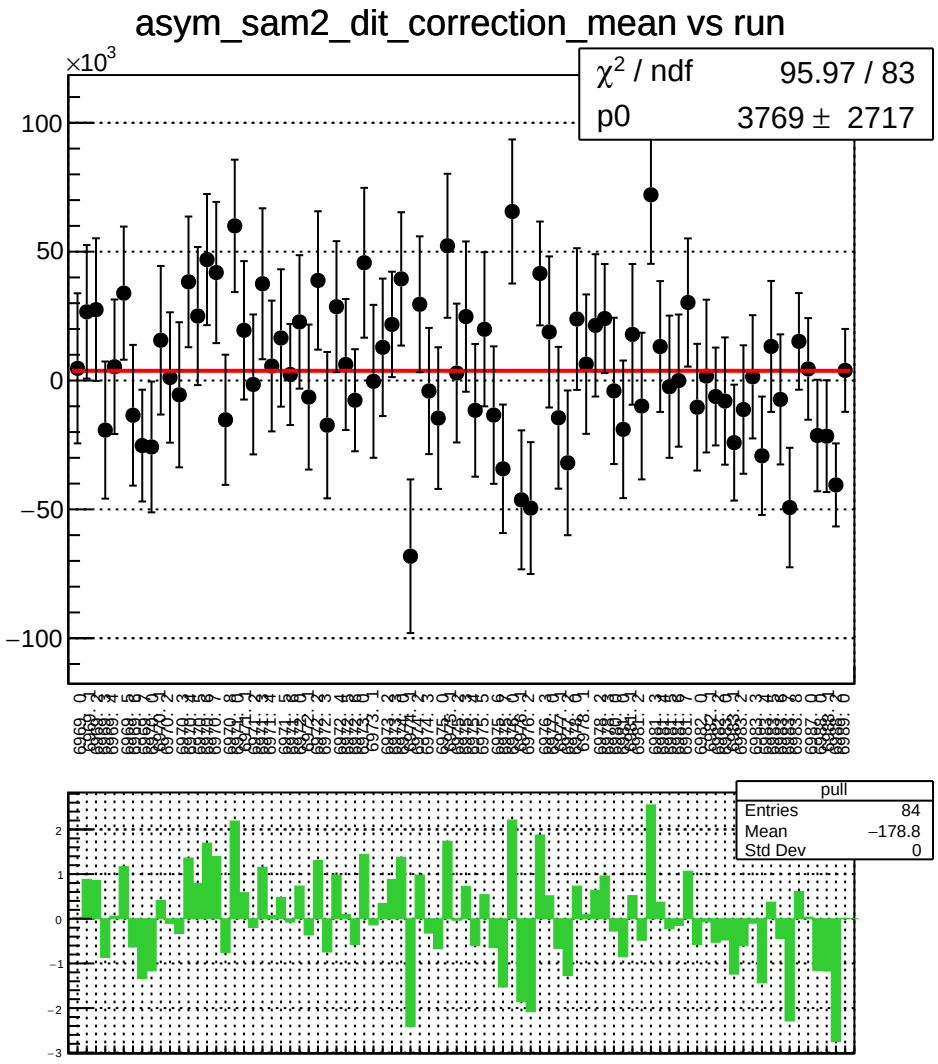
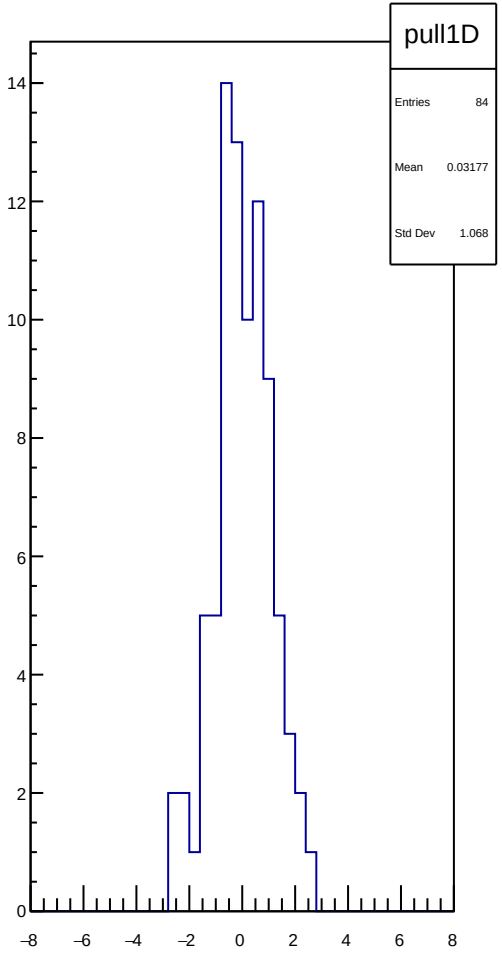
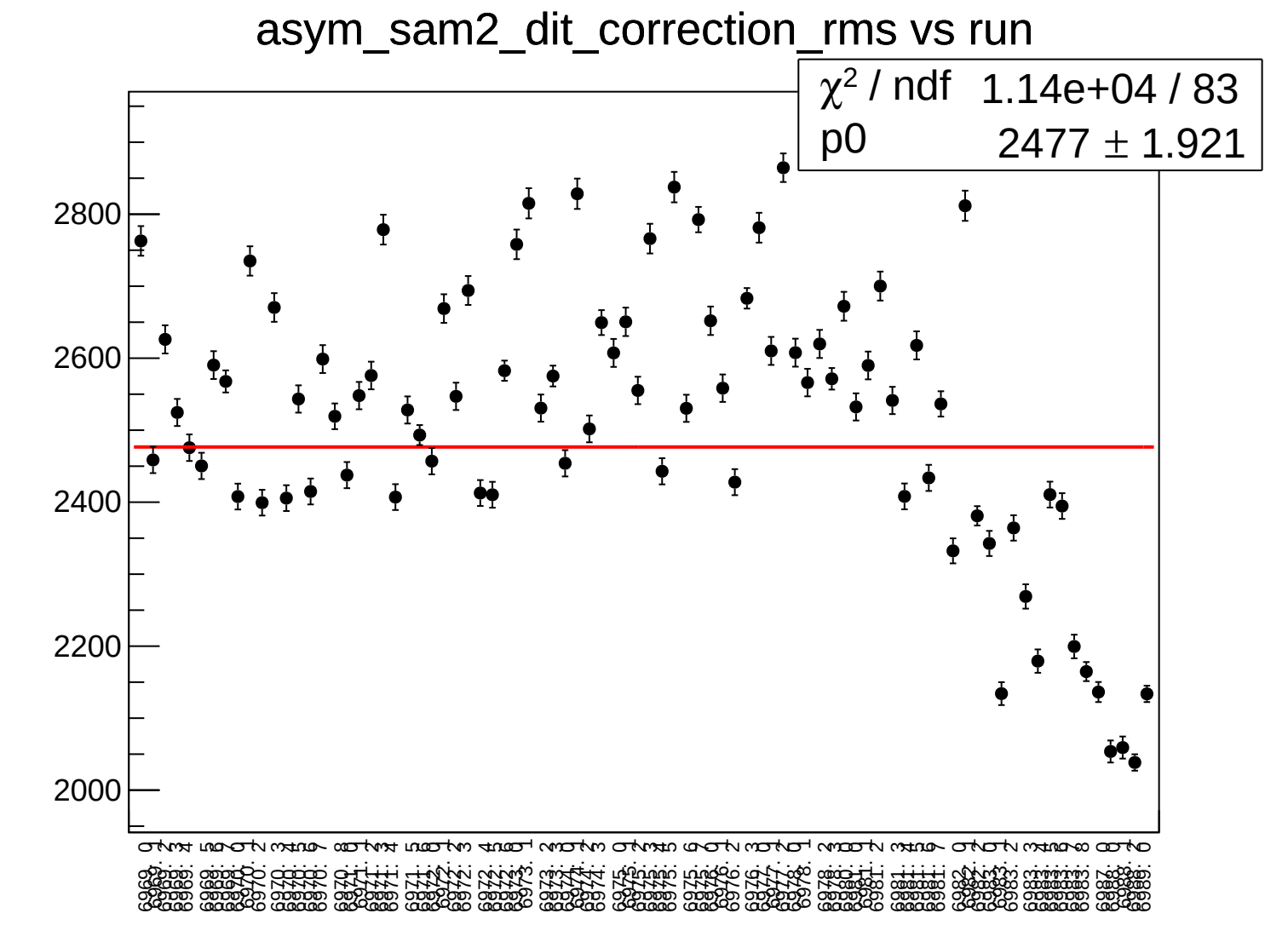
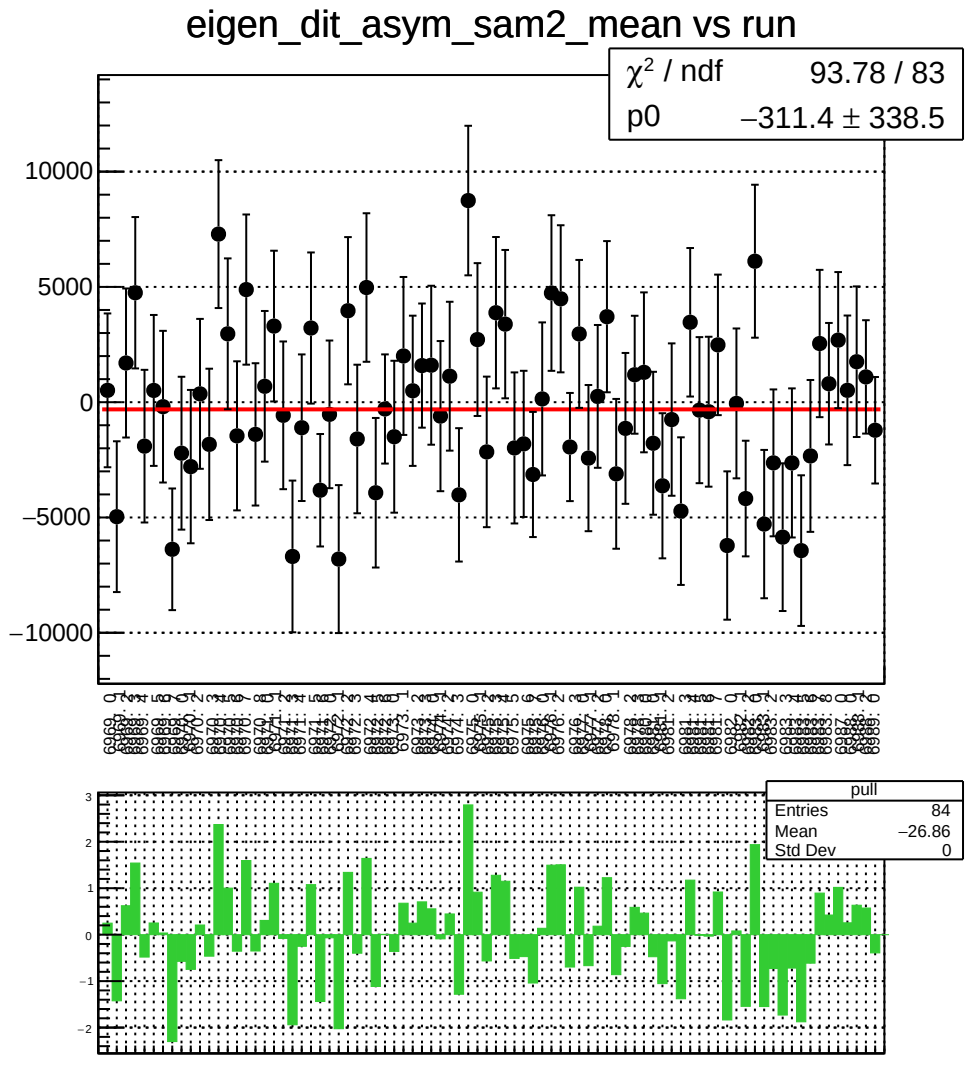
2
4
6
8

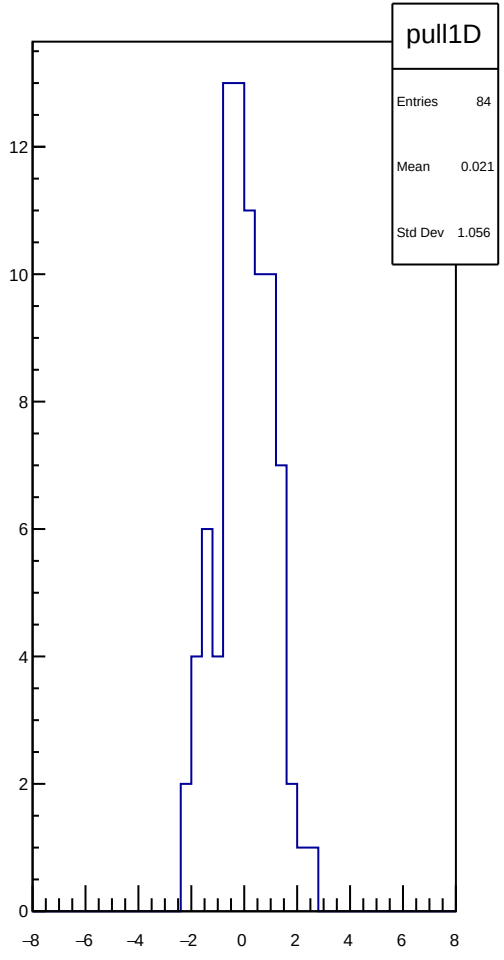

dit_asym_sam2_rms vs run
χ² / ndf 762.9 / 83
p0 309.6 ± 0.2393
340
330
320
310
300
290

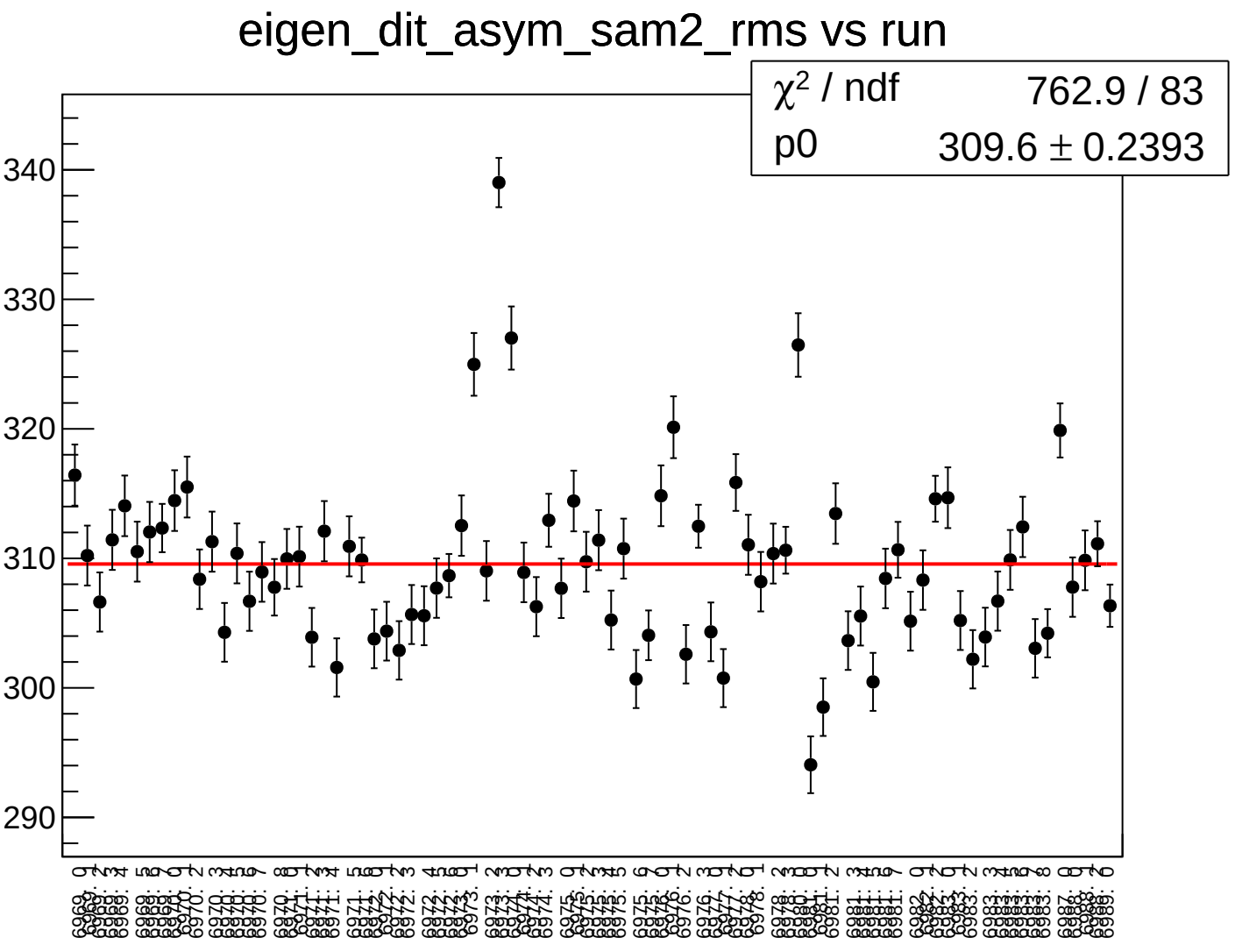

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 95.97 / 83
p0 3769 ± 2717
100
50
0
−50
−100
pull
Entries 84
Mean −178.8
Std Dev 0
2
1
0
−1
−2
−3

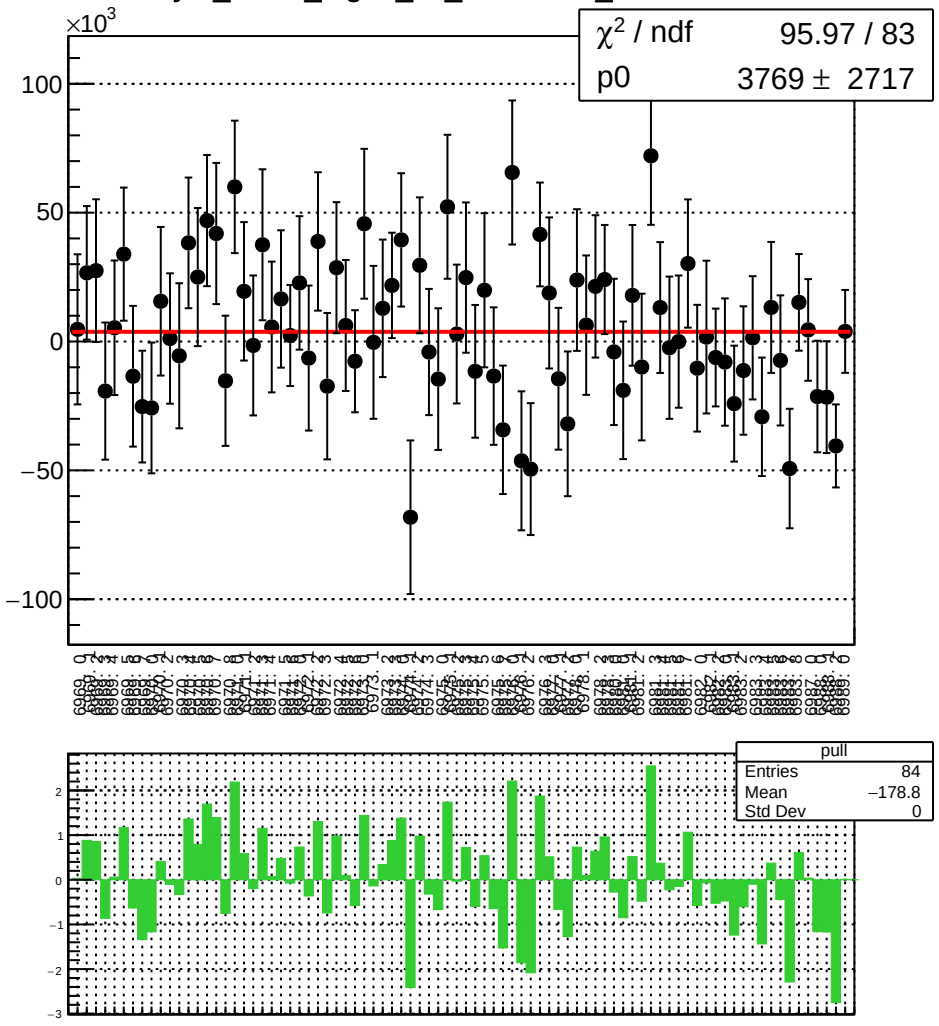

pull1D
Entries 84
Mean 0.03177
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

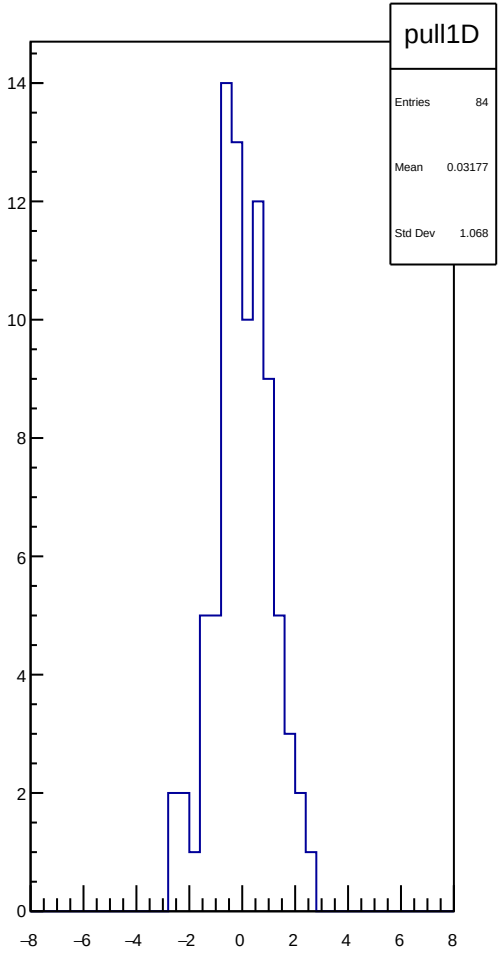

asym_sam2_dit_correction_rms vs run
χ² / ndf 1.14e+04 / 83
p0 2477 ± 1.921
2800
2600
2400
2200
2000

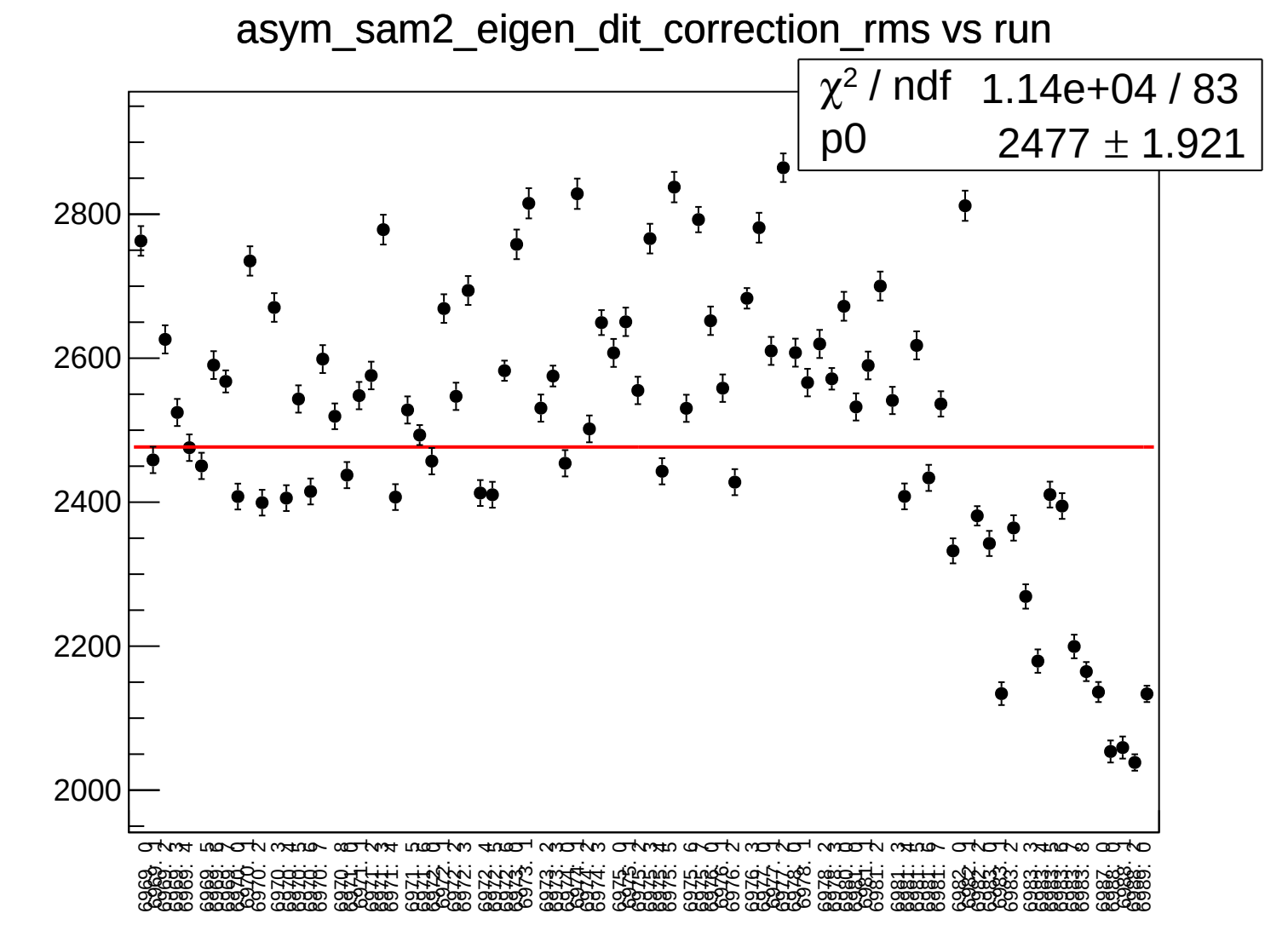

eigen_dit_asym_sam2_mean vs run
χ² / ndf 93.78 / 83
p0 −311.4 ± 338.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −26.86
Std Dev 0
3
2
1
0
−1
−2

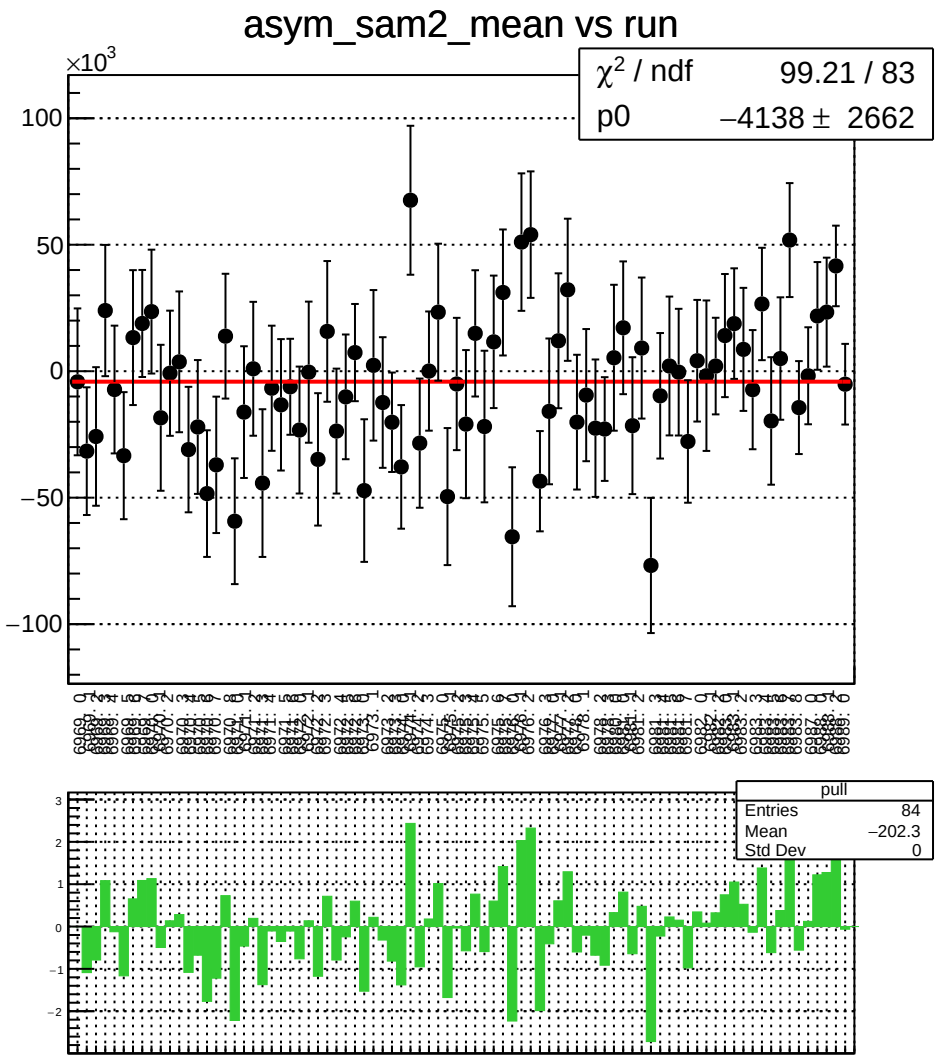

pull1D
Entries 84
Mean 0.021
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

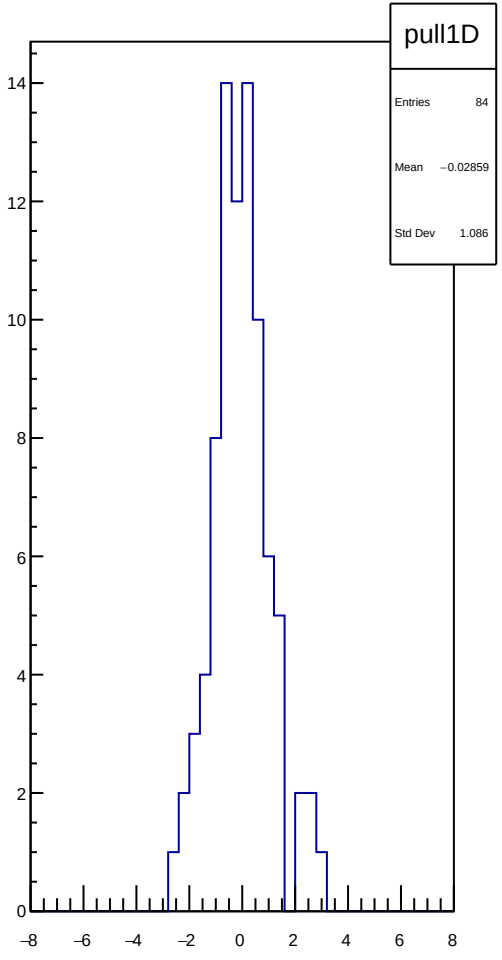

eigen_dit_asym_sam2_rms vs run
χ² / ndf 762.9 / 83
p0 309.6 ± 0.2393
340
330
320
310
300
290

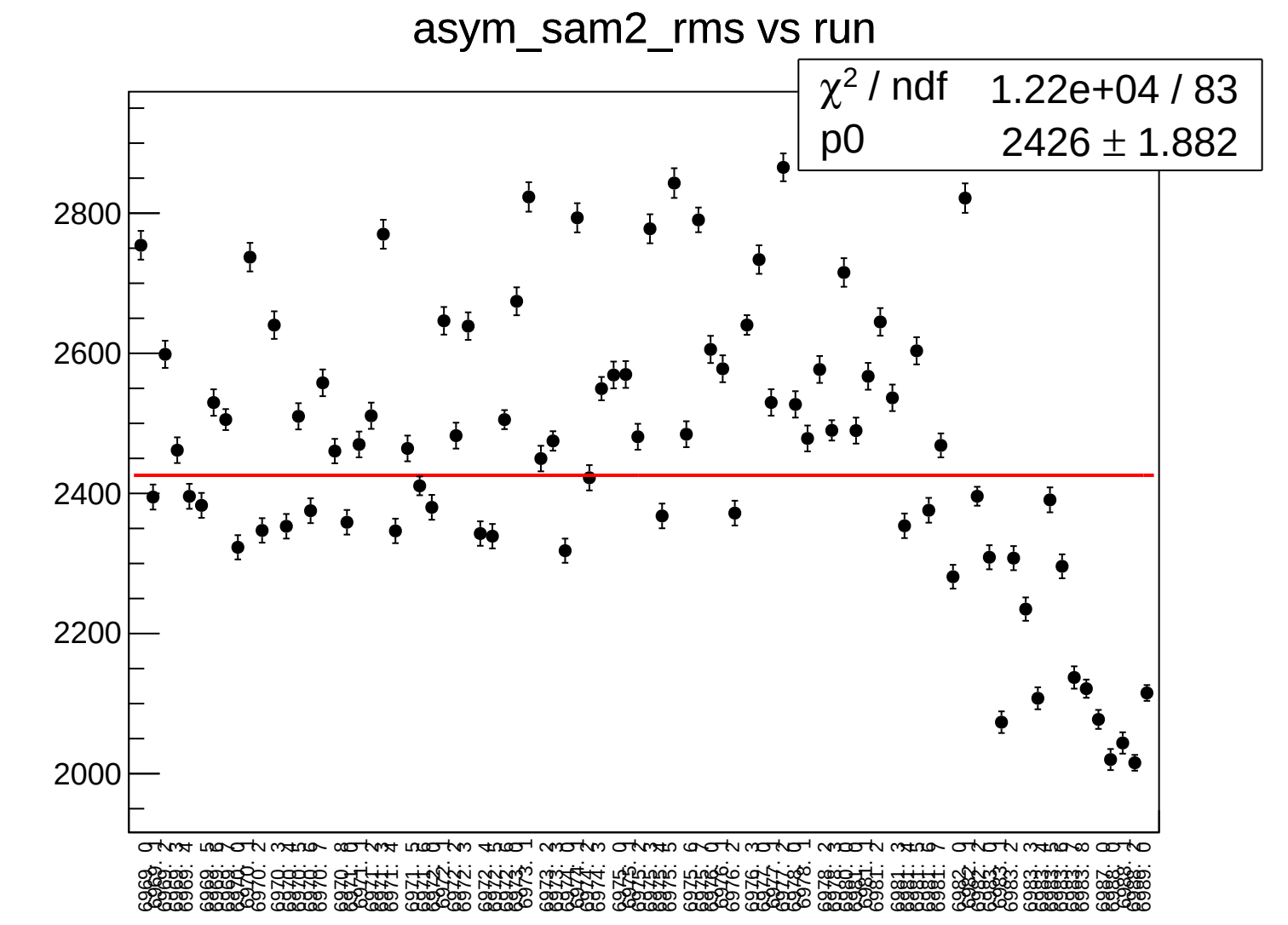

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.97 / 83
p0 3769 ± 2717
100
50
0
−50
−100
pull
Entries 84
Mean −178.8
Std Dev 0
2
1
0
−1
−2
−3

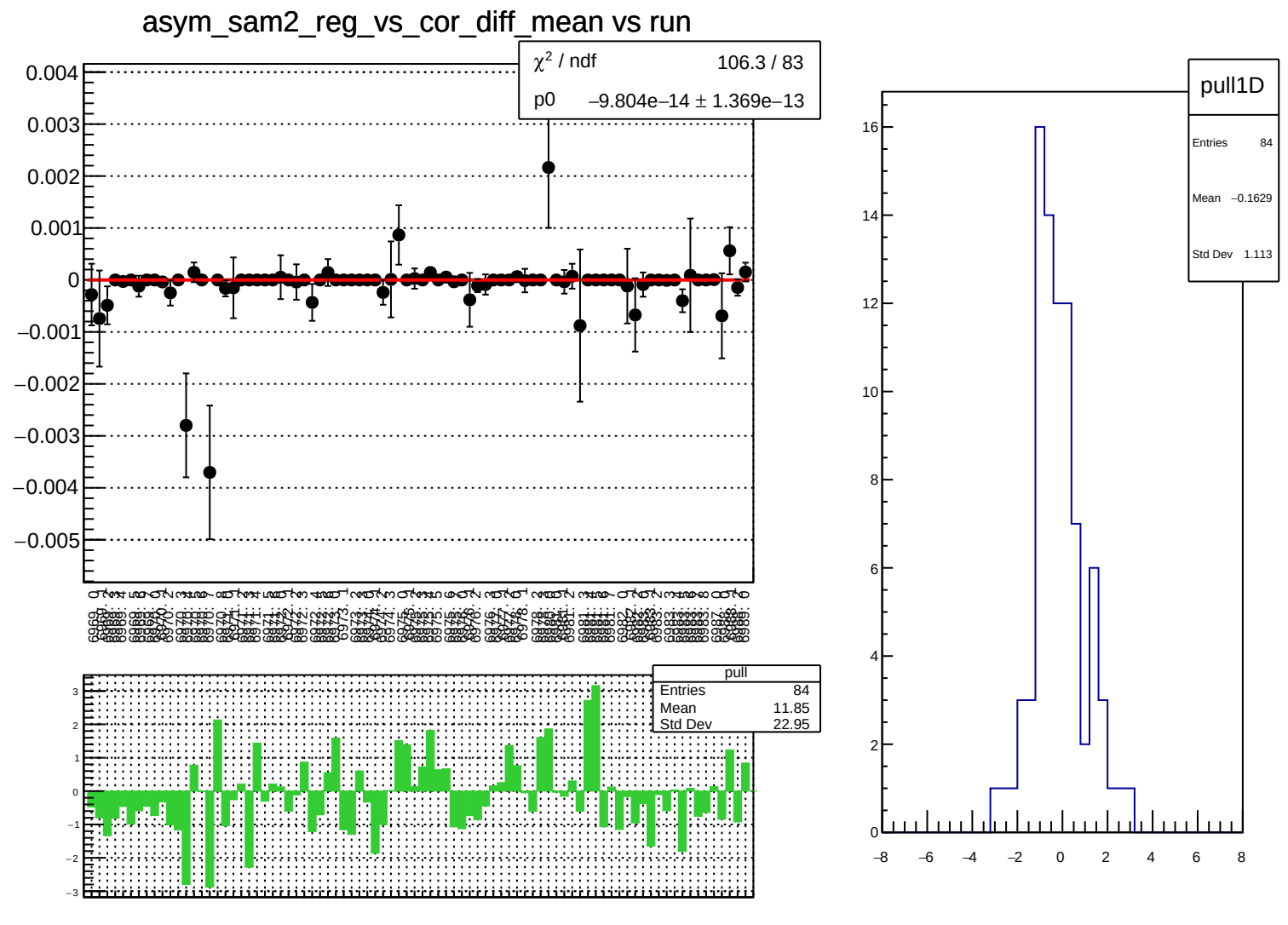

pull1D
Entries 84
Mean 0.03177
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

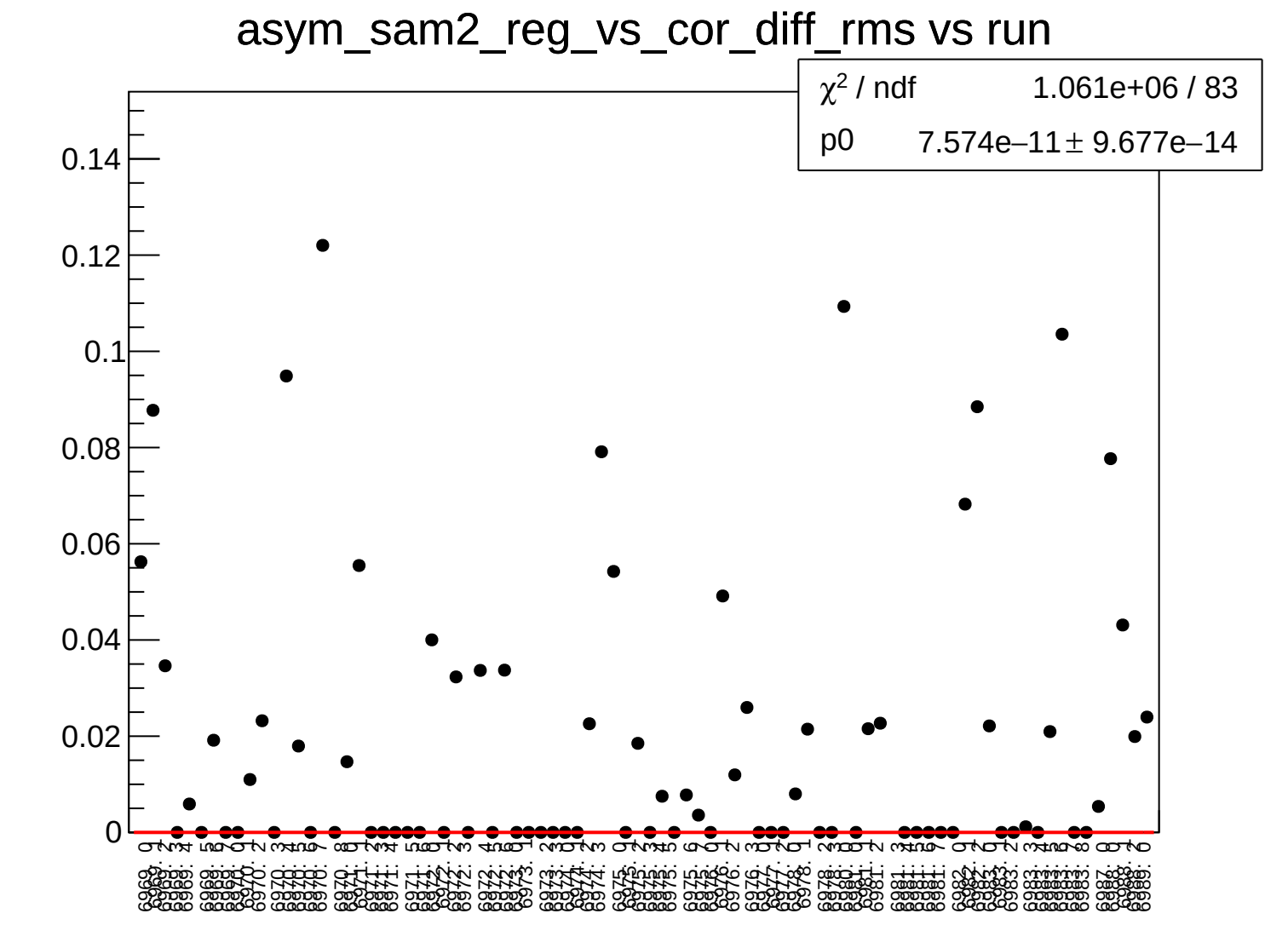

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 1.14e+04 / 83
p0 2477 ± 1.921
2800
2600
2400
2200
2000

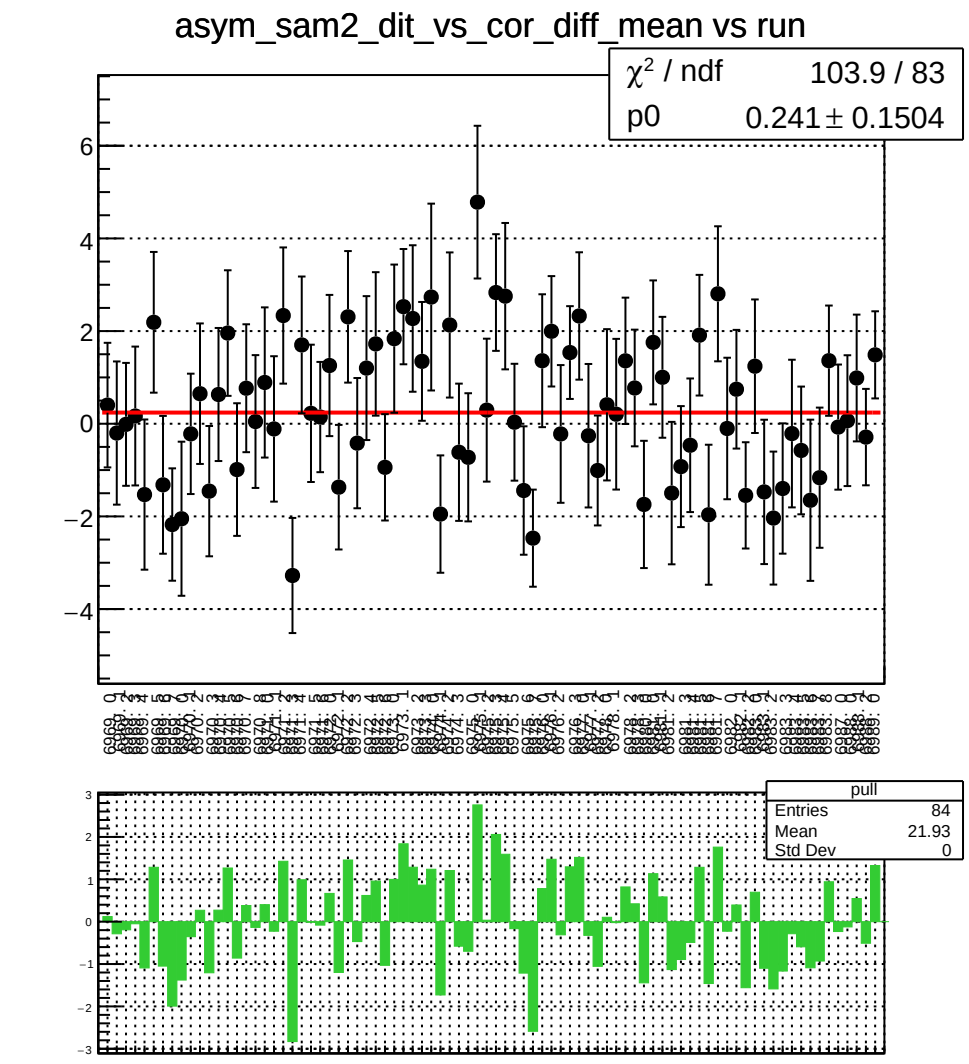

asym_sam2_mean vs run
χ^2 / ndf 99.21 / 83
p0 −4138 ± 2662
×10^3
100
50
0
−50
−100
pull
Entries 84
Mean −202.3
Std Dev 0
3
2
1
0
−1
−2

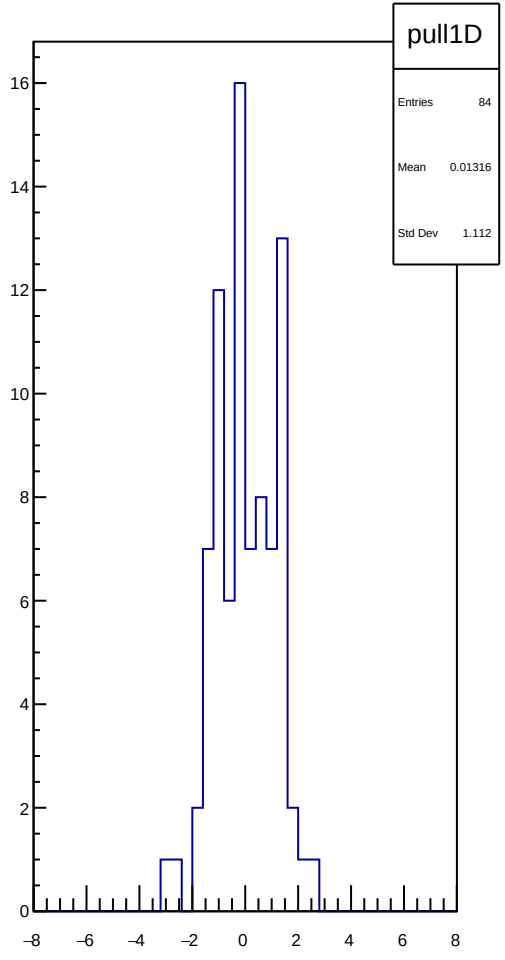

pull1D
Entries 84
Mean −0.02859
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

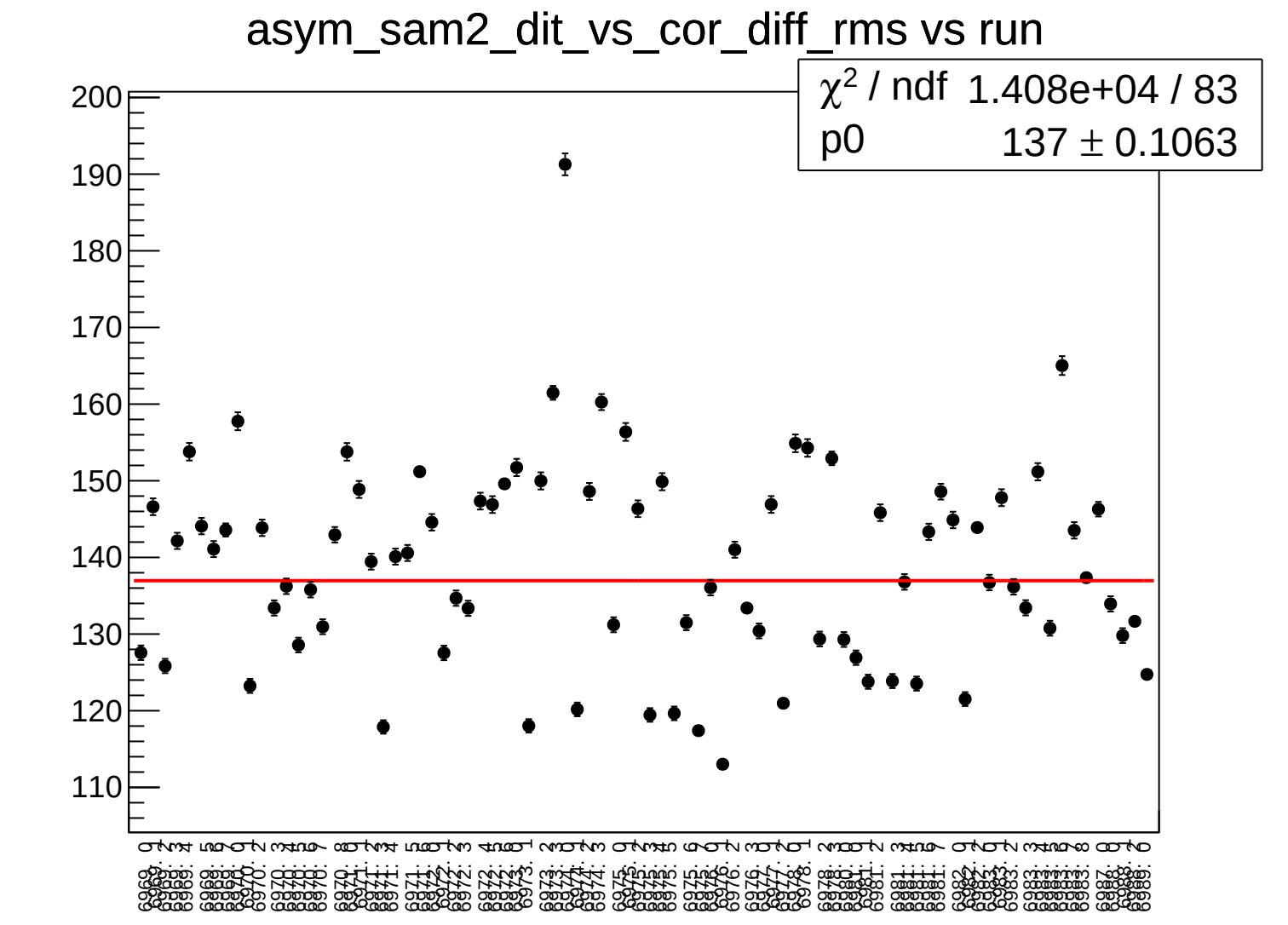

asym_sam2_rms vs run
χ² / ndf 1.22e+04 / 83
p0 2426 ± 1.882
2800
2600
2400
2200
2000


asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 83
p0 −9.804e−14 ± 1.369e−13
pull
Entries 84
Mean 11.85
Std Dev 22.95
pull1D
Entries 84
Mean −0.1629
Std Dev 1.113

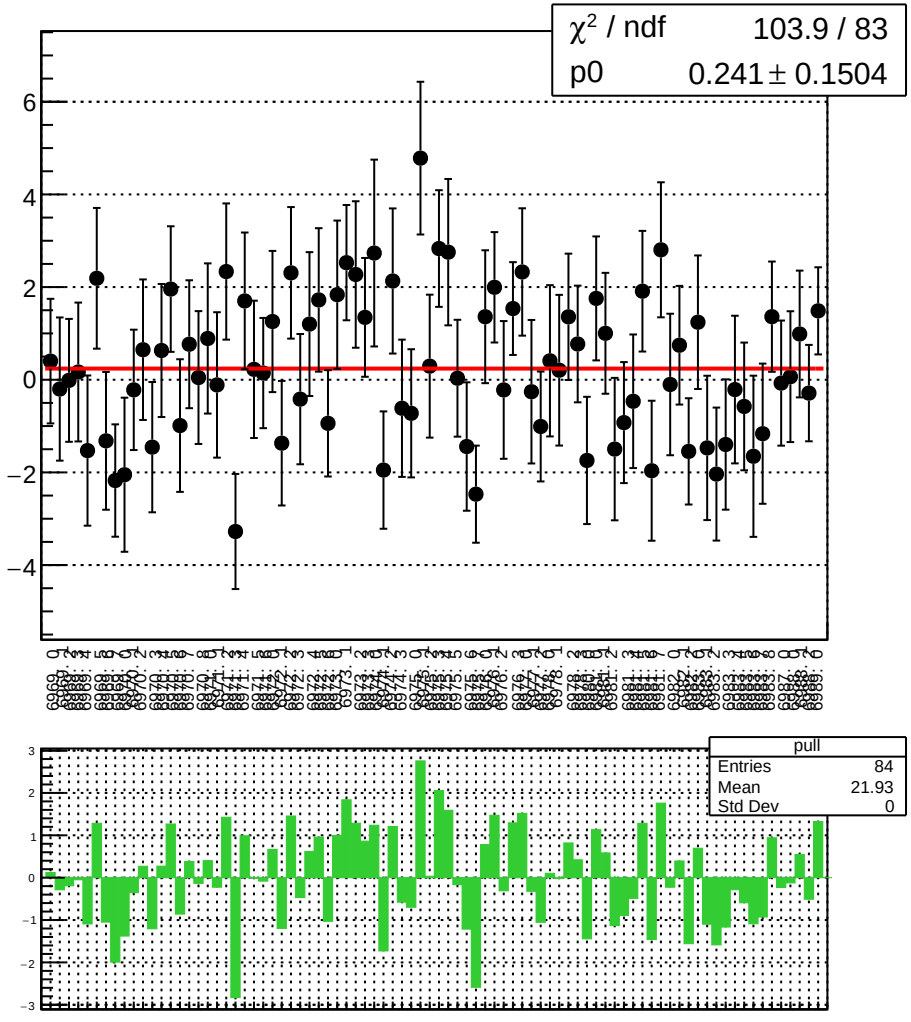

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.061e+06 / 83
p0 7.574e−11 ± 9.677e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

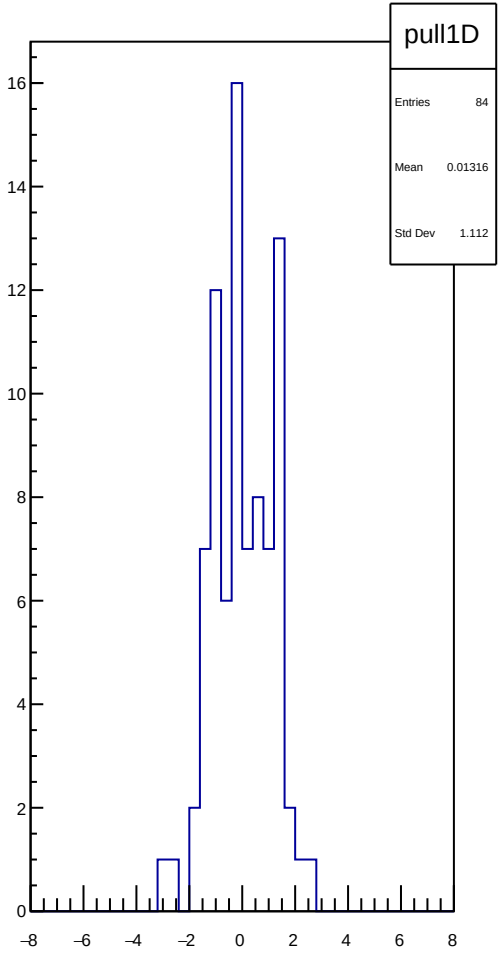

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 83
p0 0.241 ± 0.1504
pull
Entries 84
Mean 21.93
Std Dev 0

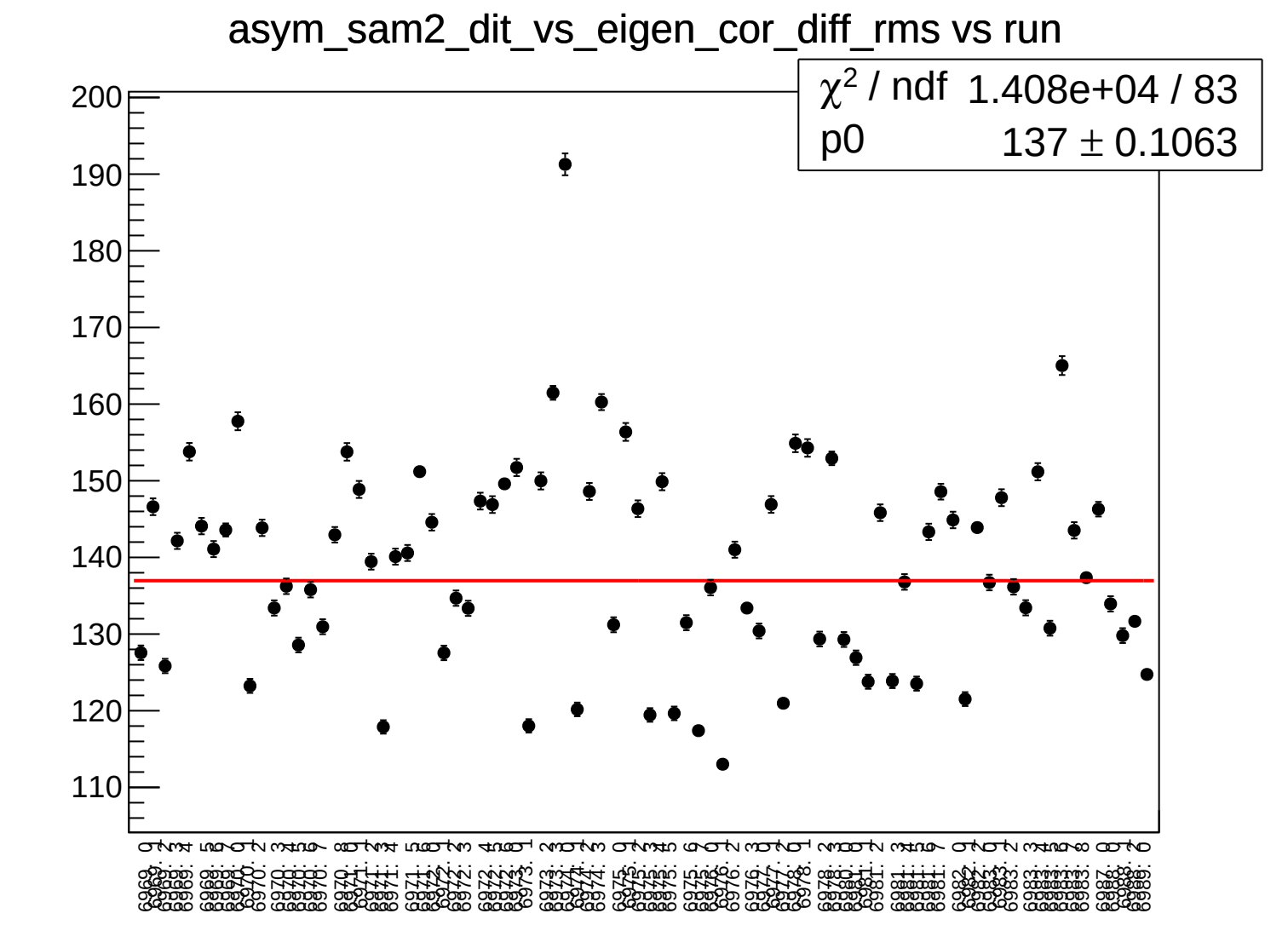

pull1D
Entries 84
Mean 0.01316
Std Dev 1.112

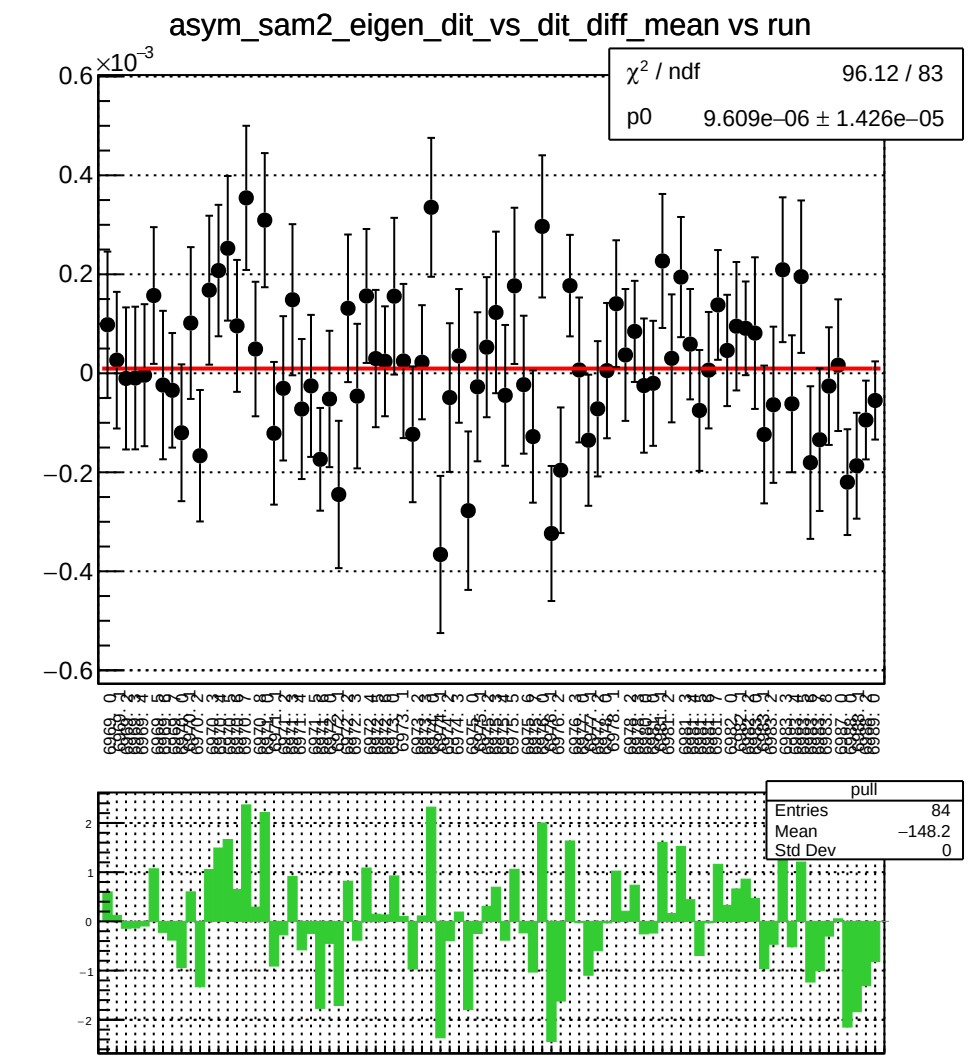

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.408e+04 / 83
p0 137 ± 0.1063
200
190
180
170
160
150
140
130
120
110

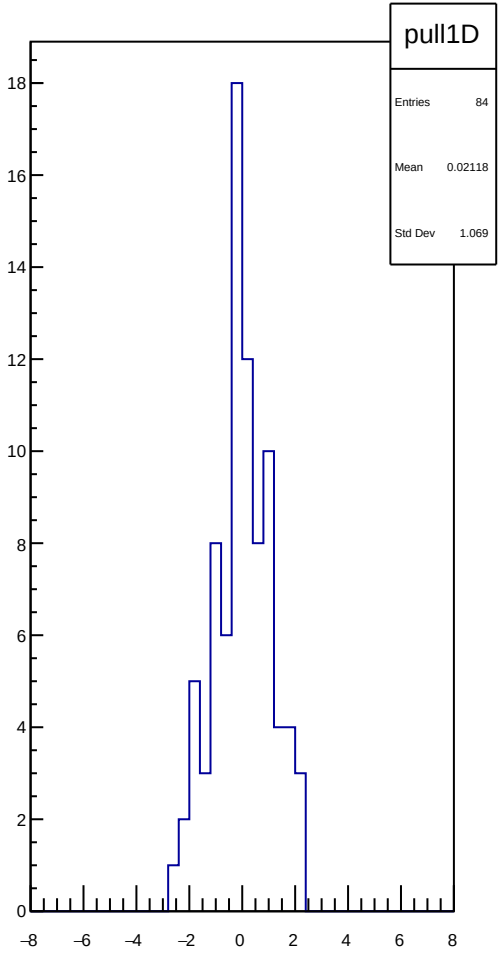
asym_sam2_dit_vs_eigen_cor_diff_mean vs run

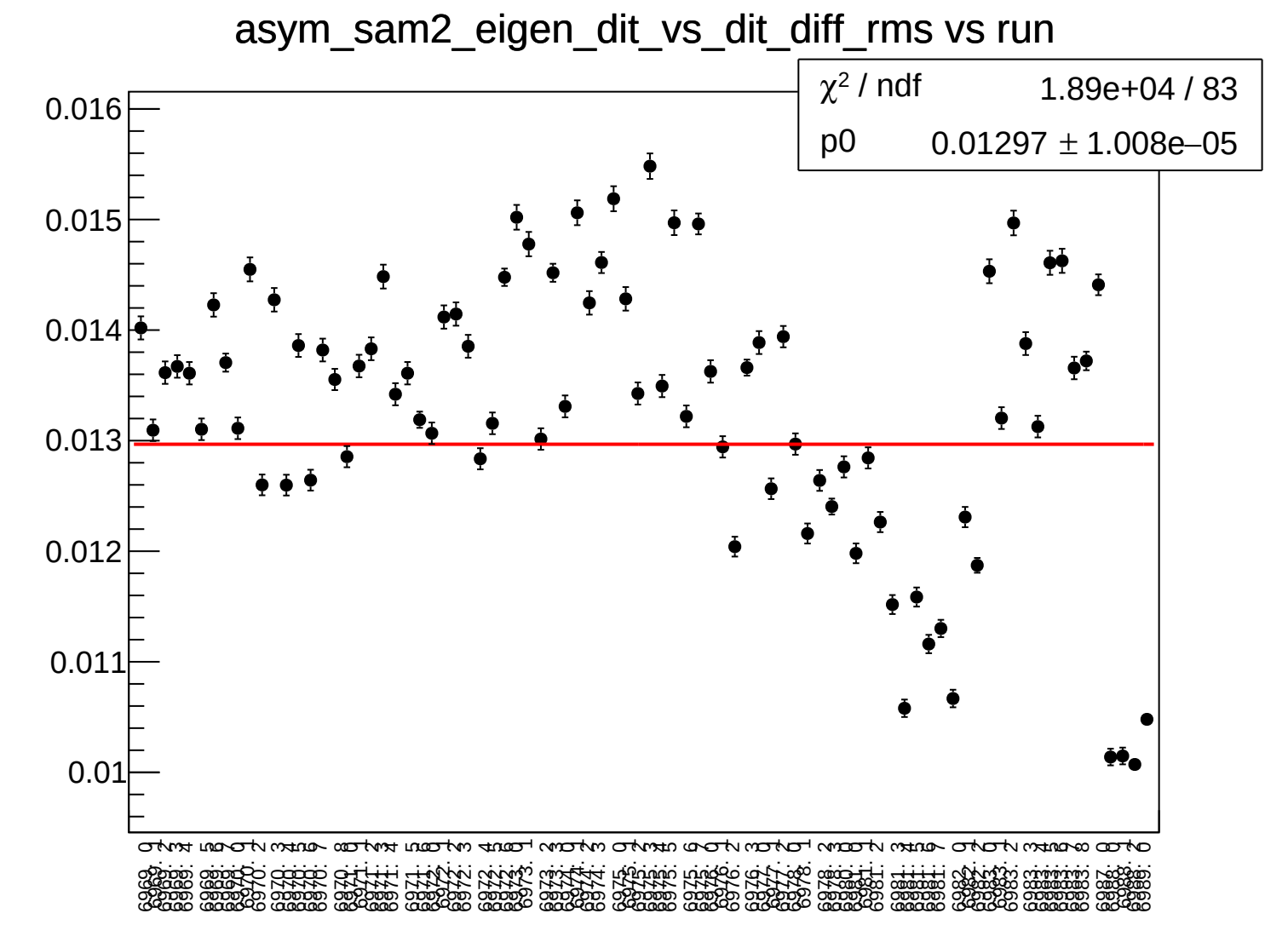




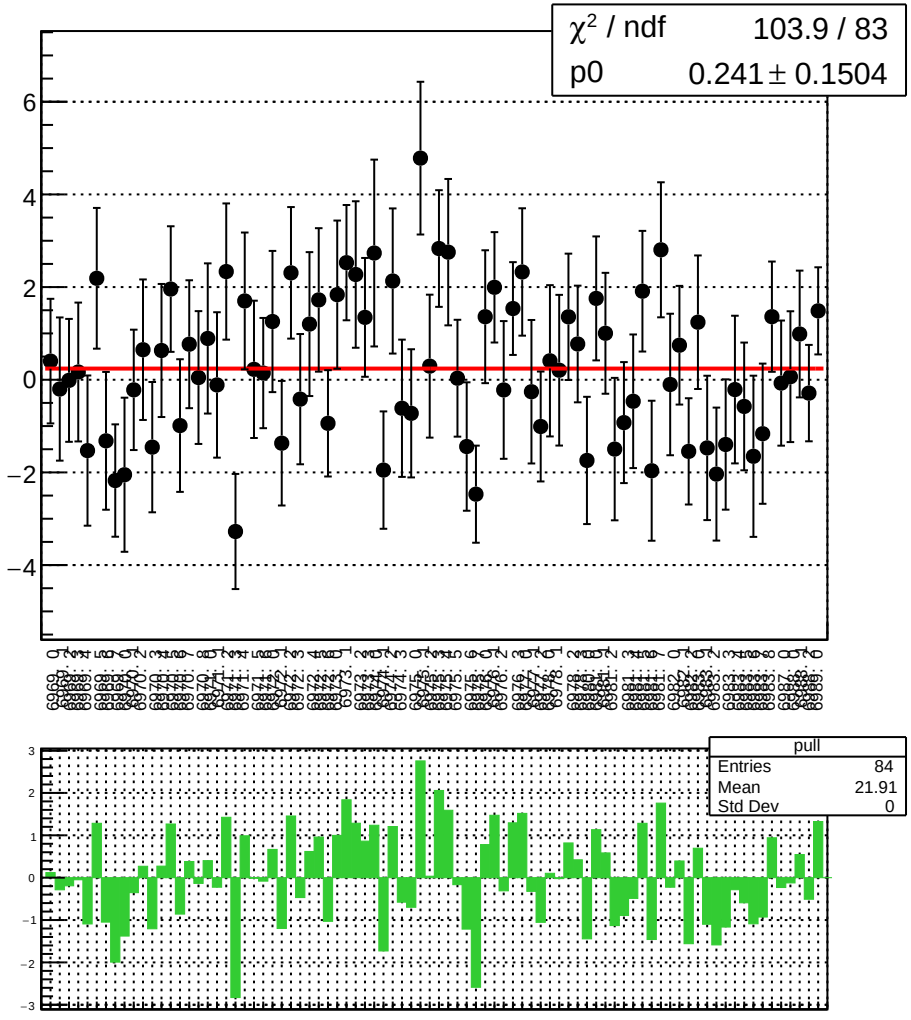

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.408e+04 / 83
p0 137 ± 0.1063
200
190
180
170
160
150
140
130
120
110

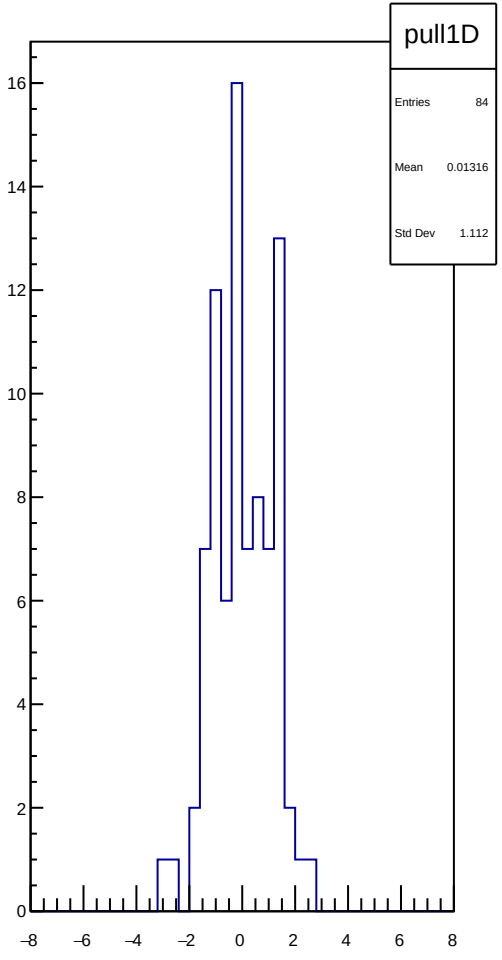

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.12 / 83
p0 9.609e−06 ± 1.426e−05
pull
Entries 84
Mean −148.2
Std Dev 0

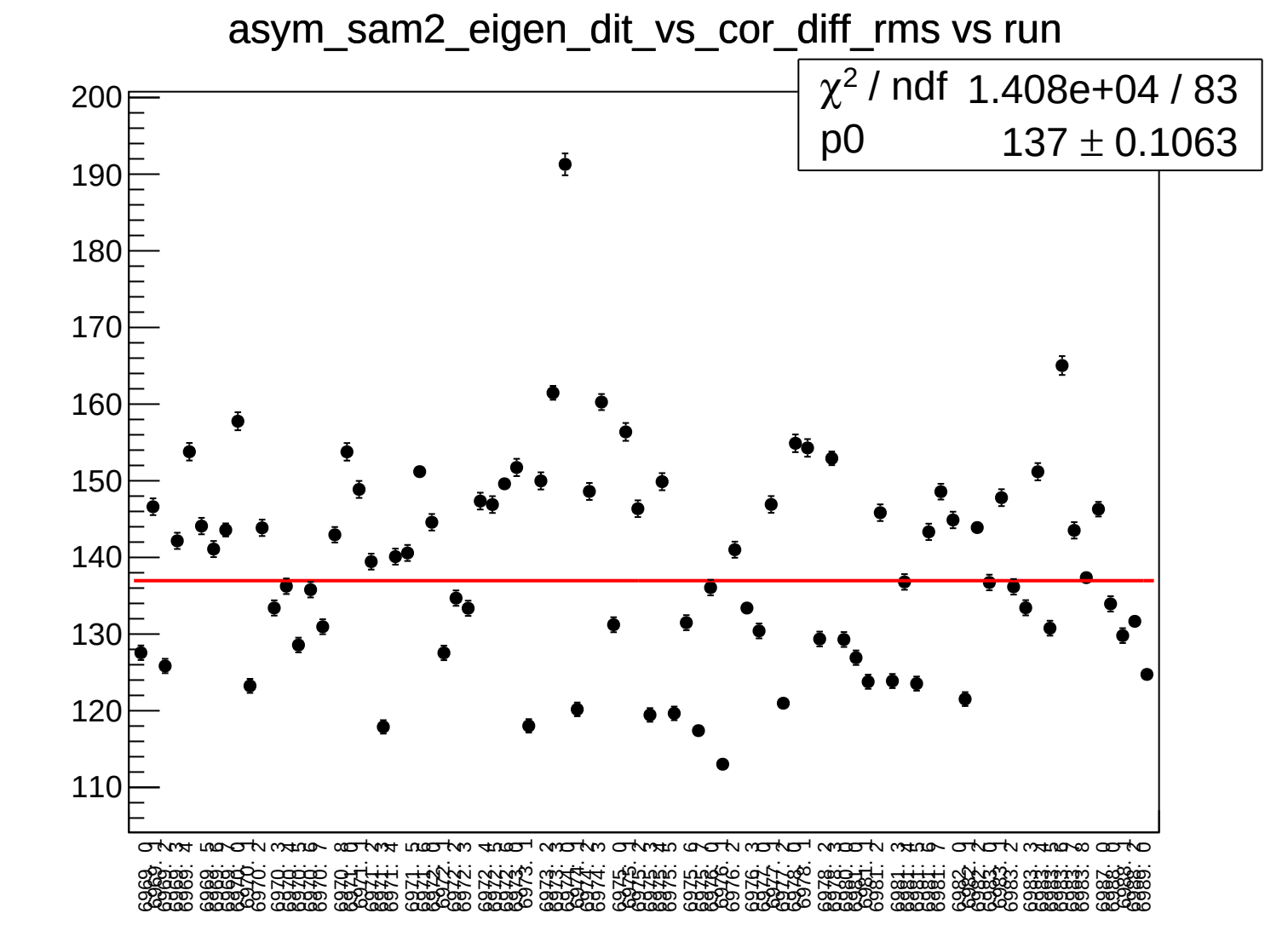

pull1D
Entries 84
Mean 0.02118
Std Dev 1.069


asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.89e+04 / 83
p0 0.01297 ± 1.008e–05
0.016
0.015
0.014
0.013
0.012
0.011
0.01

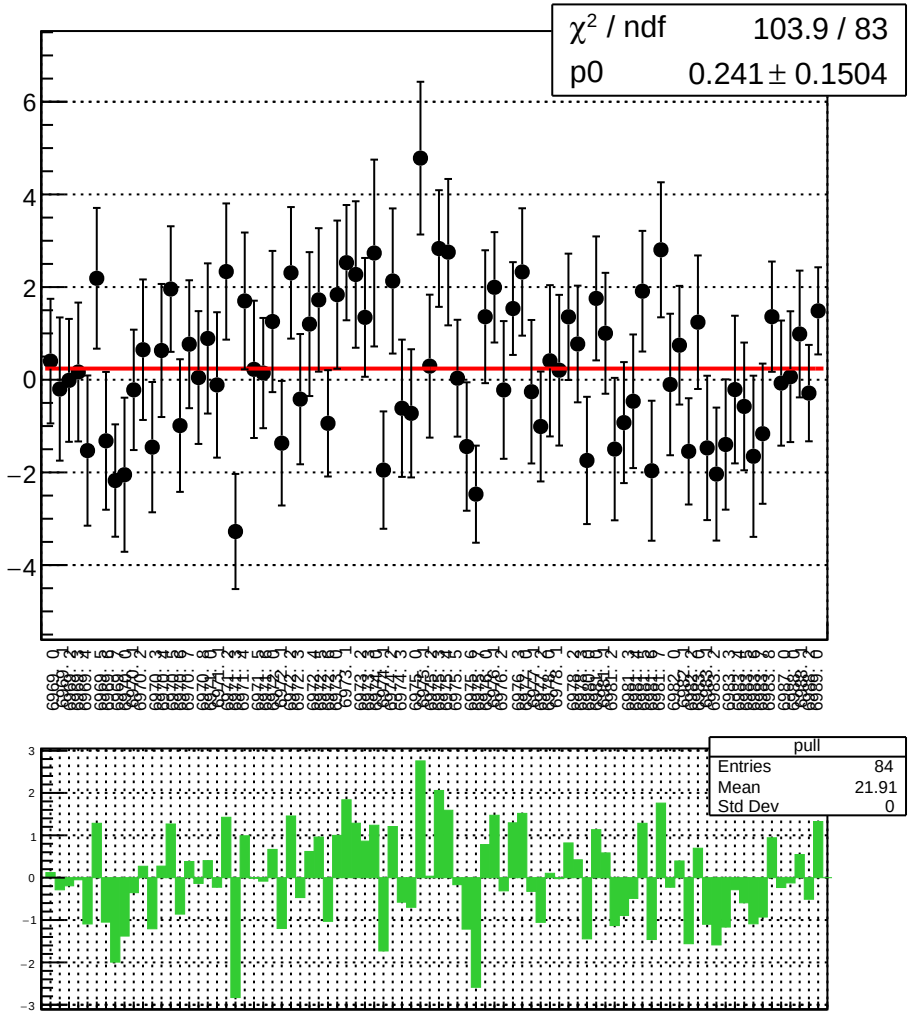
asym_sam2_eigen_dit_vs_cor_diff_mean vs run

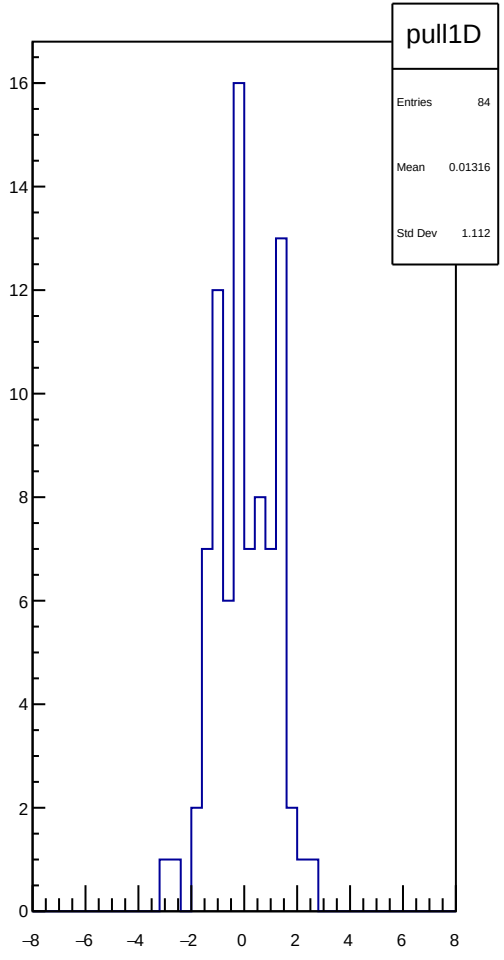


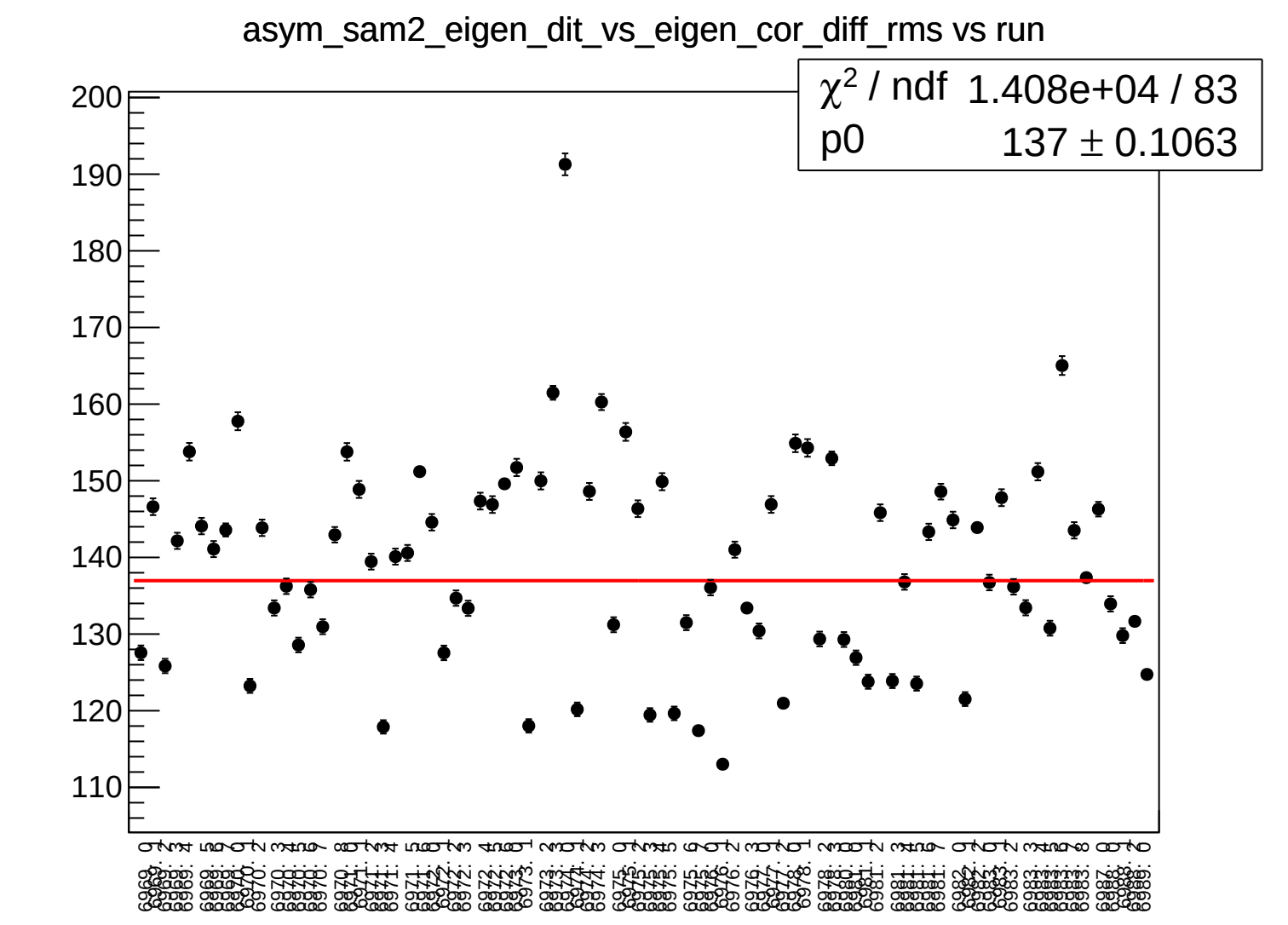


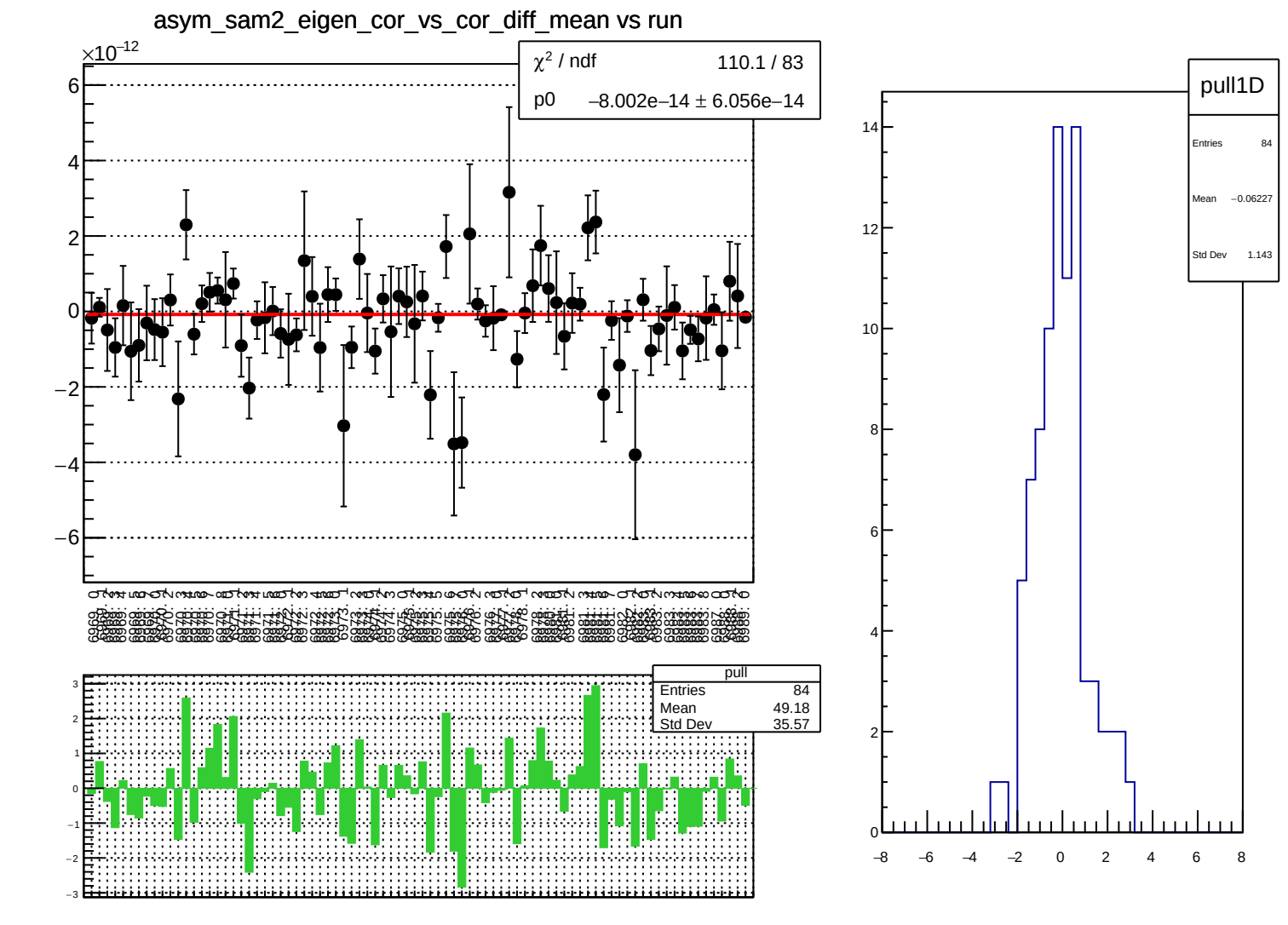

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.408e+04 / 83
p0 137 ± 0.1063
200
190
180
170
160
150
140
130
120
110

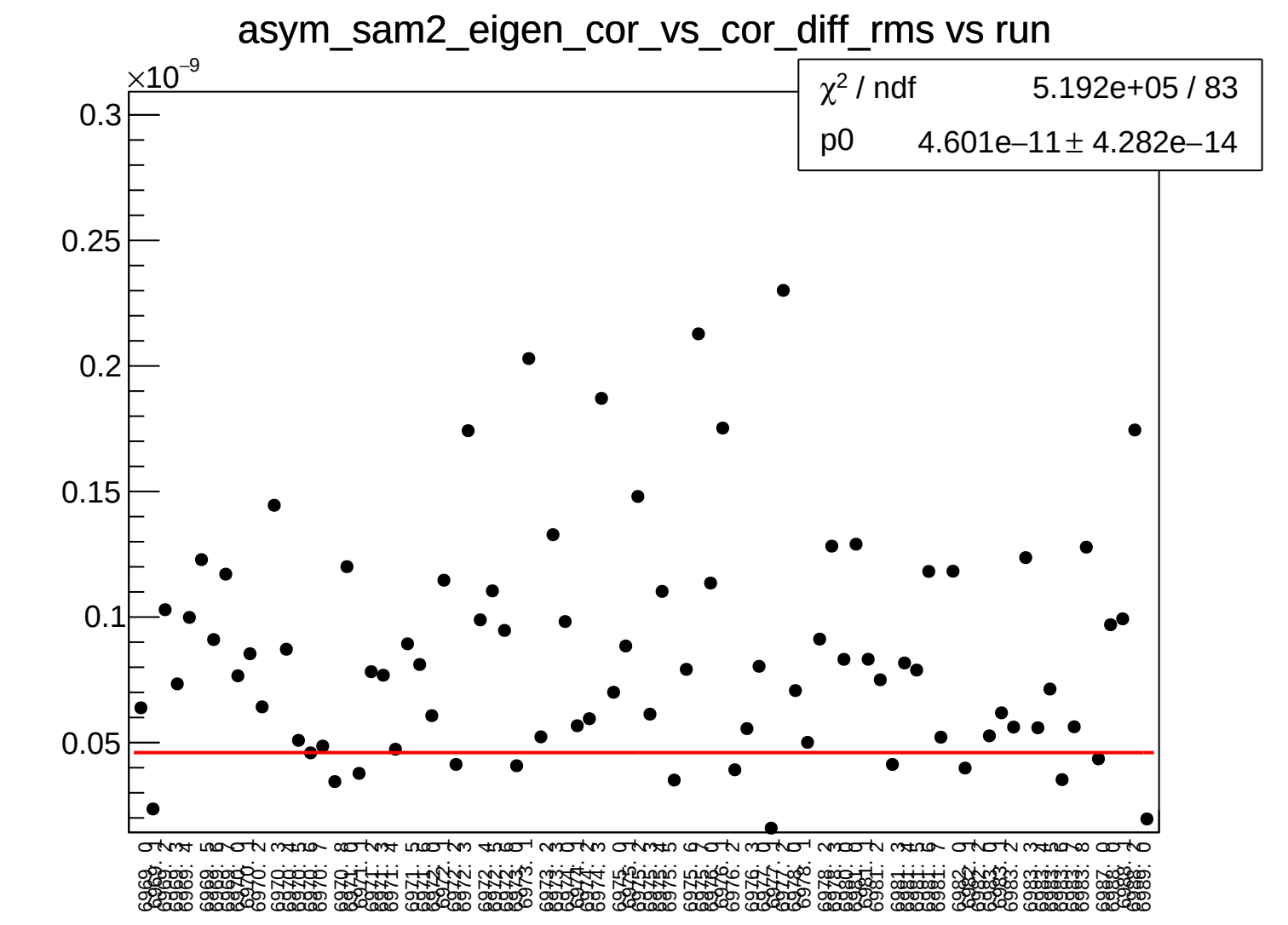
asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run

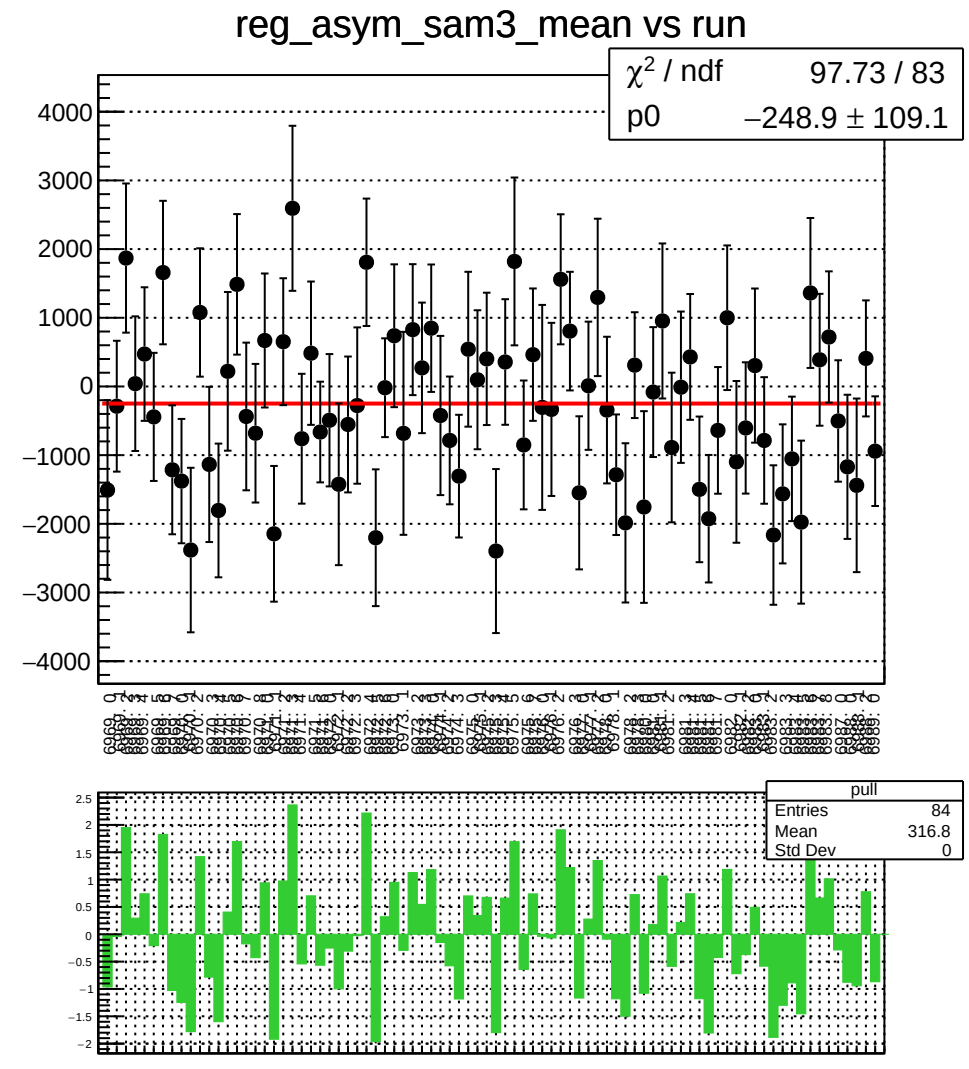


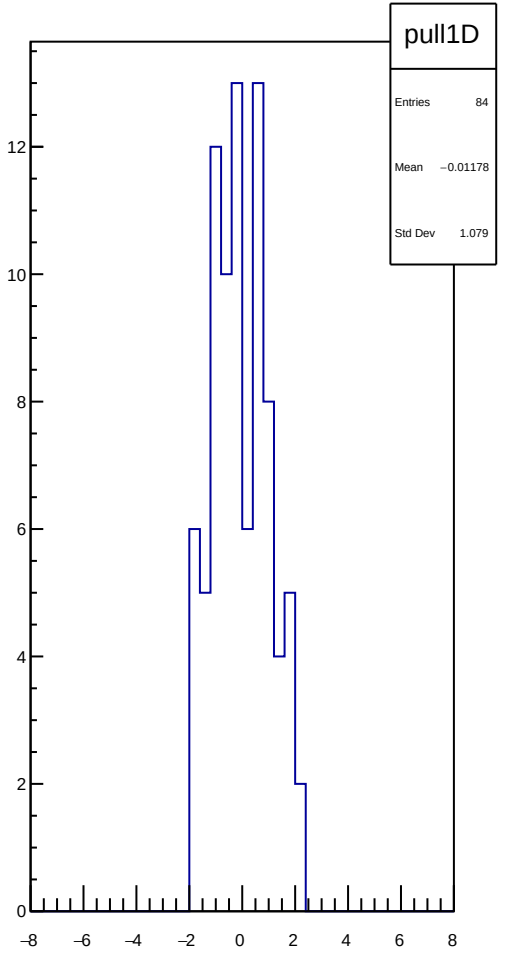


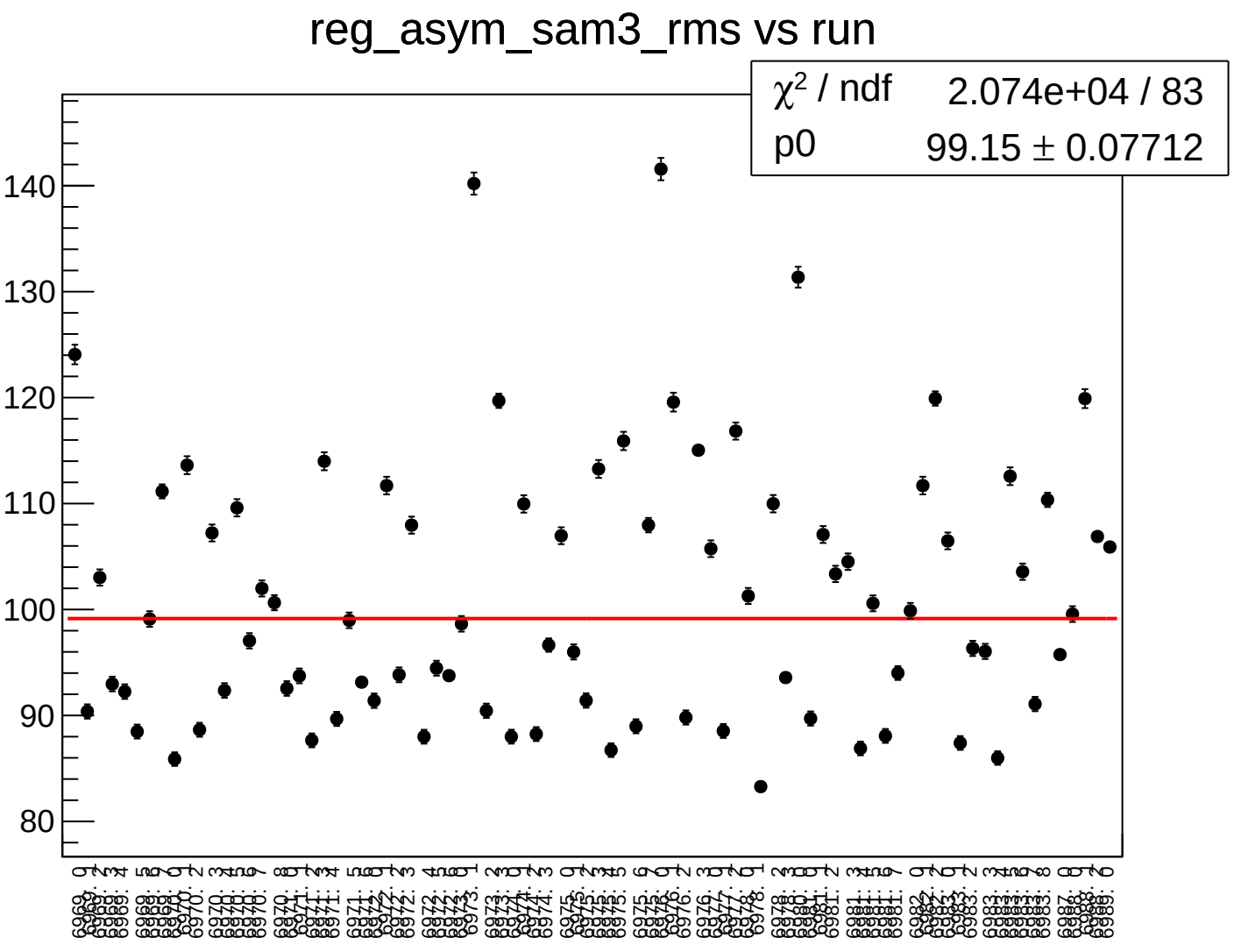

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.408e+04 / 83
p0 137 ± 0.1063
200
190
180
170
160
150
140
130
120
110

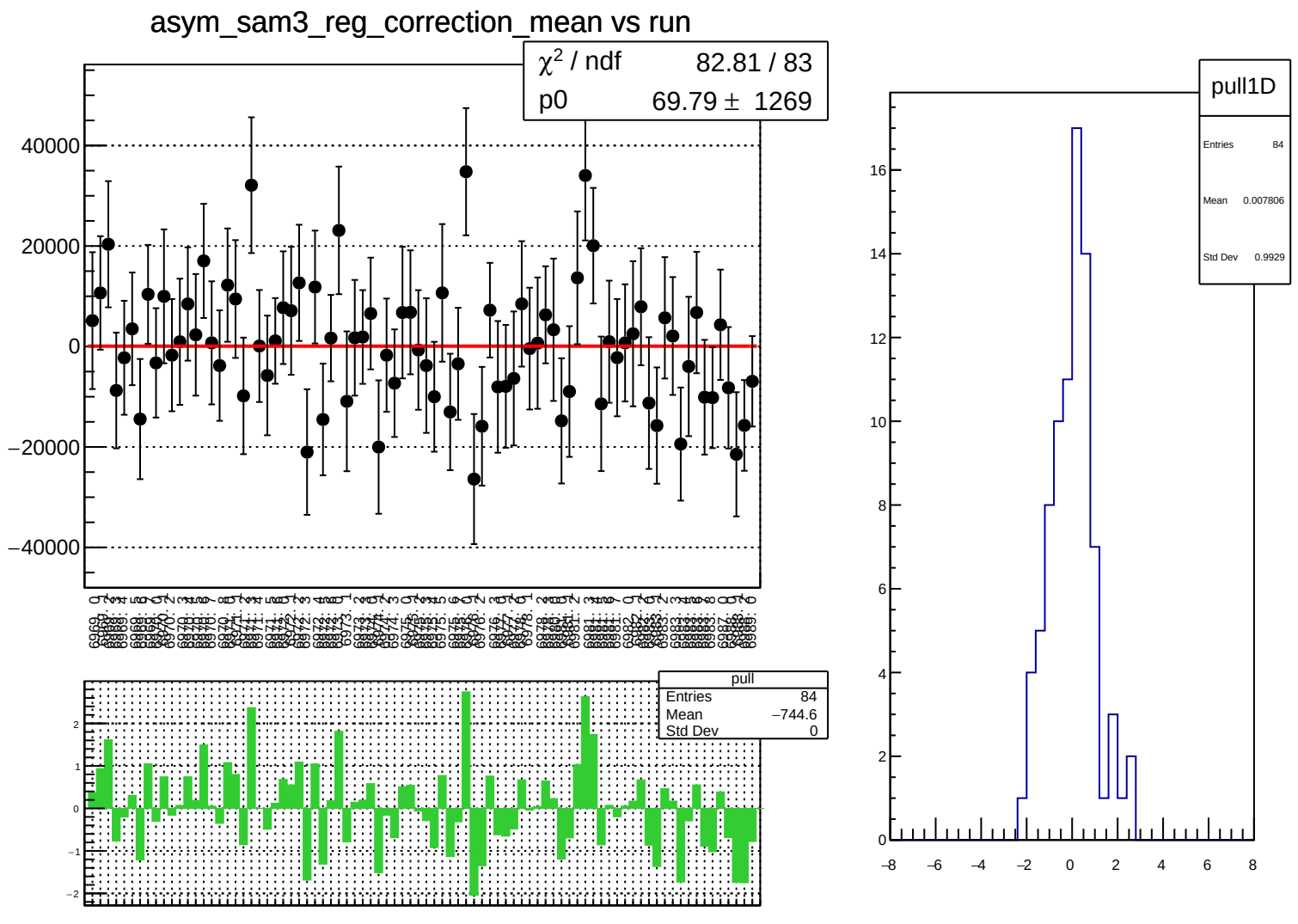

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 110.1 / 83
p0 −8.002e−14 ± 6.056e−14
pull
Entries 84
Mean 49.18
Std Dev 35.57
pull1D
Entries 84
Mean −0.06227
Std Dev 1.143

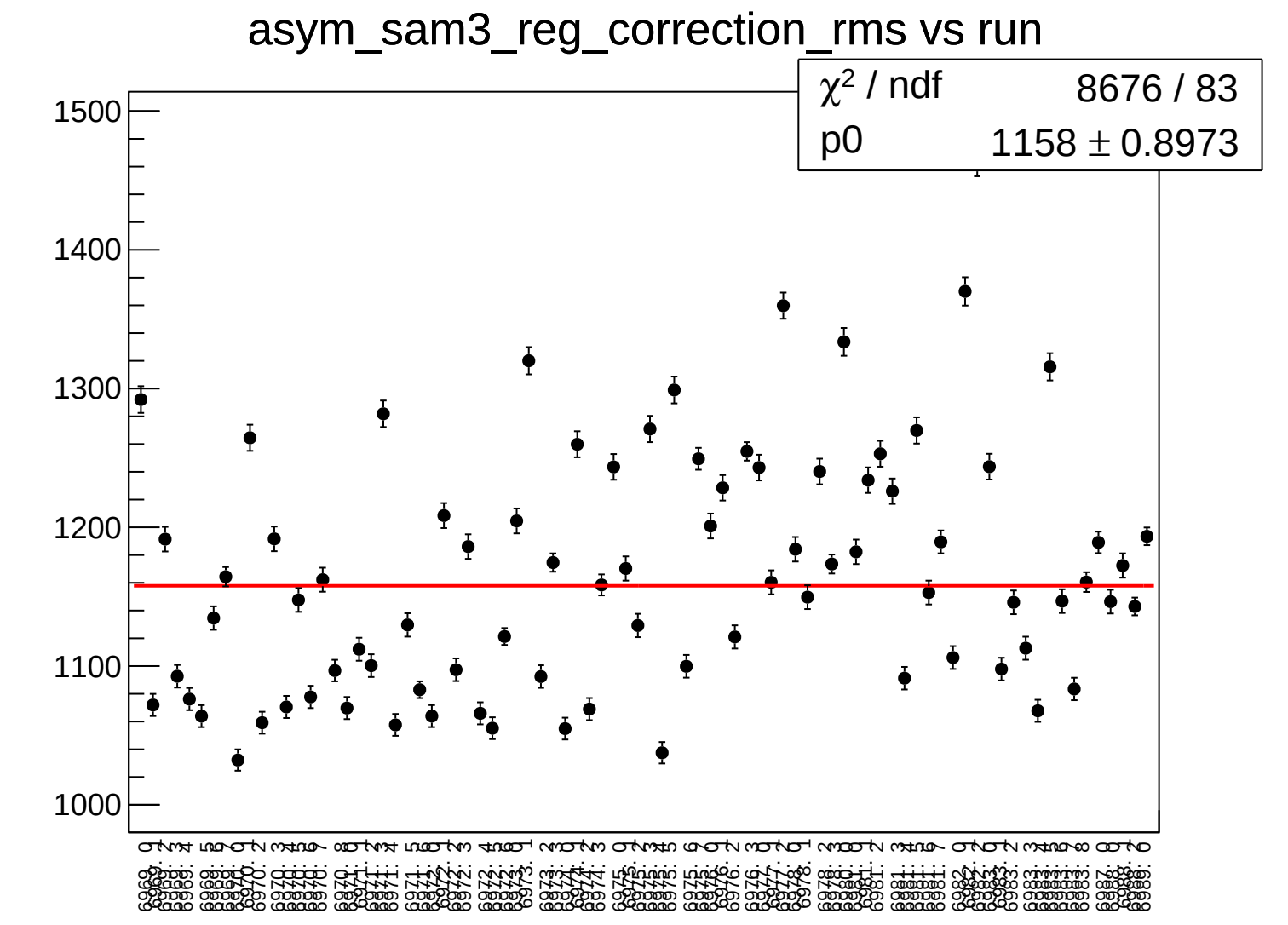

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.192e+05 / 83
p0 4.601e−11 ± 4.282e−14
0.3
0.25
0.2
0.15
0.1
0.05

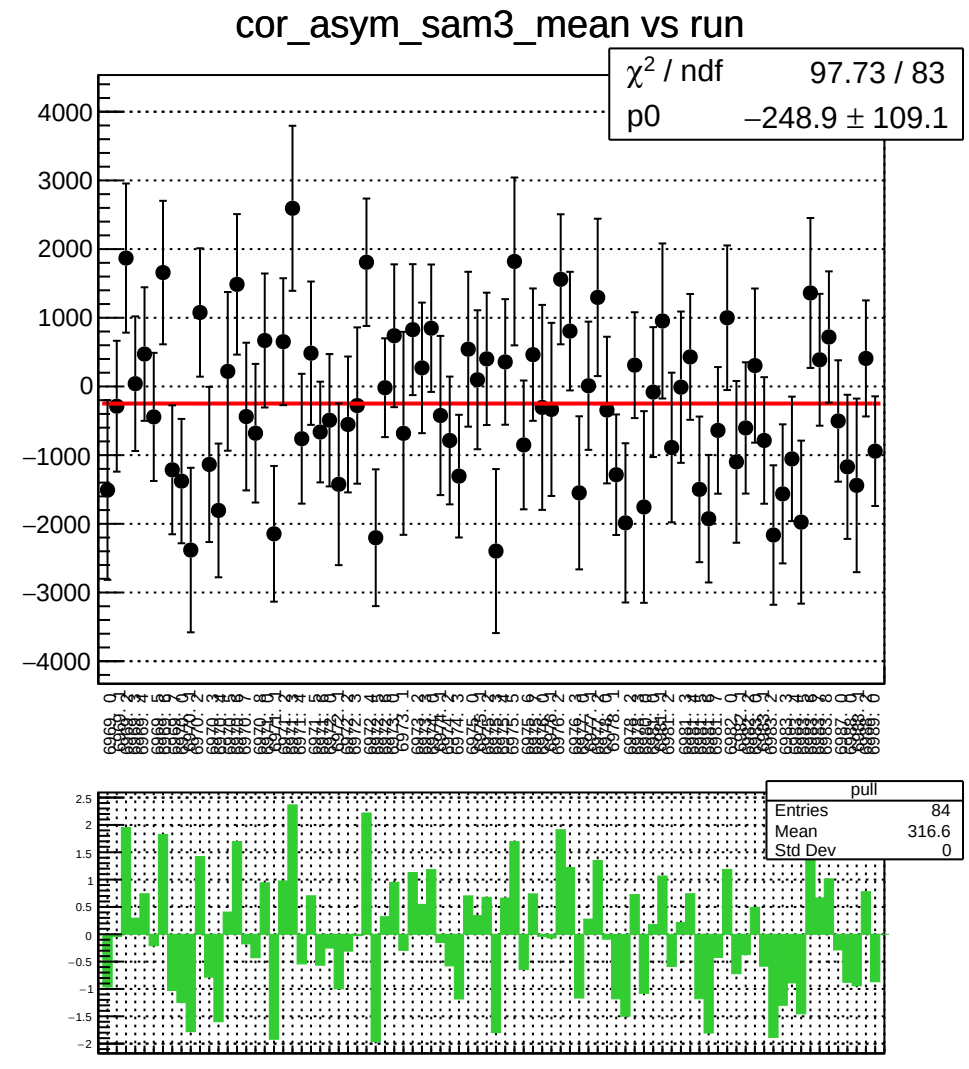

reg_asym_sam3_mean vs run
χ² / ndf 97.73 / 83
p0 −248.9 ± 109.1
pull
Entries 84
Mean 316.8
Std Dev 0

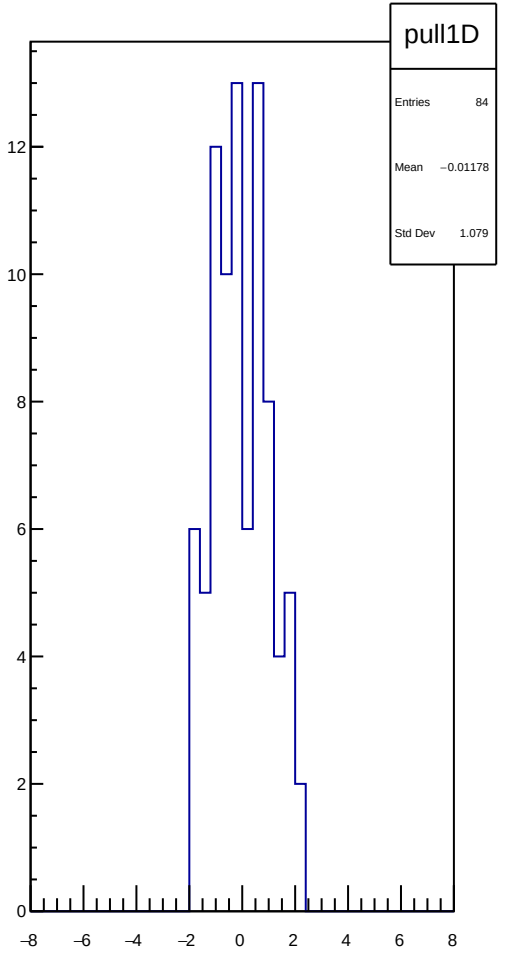

pull1D
Entries 84
Mean −0.01178
Std Dev 1.079

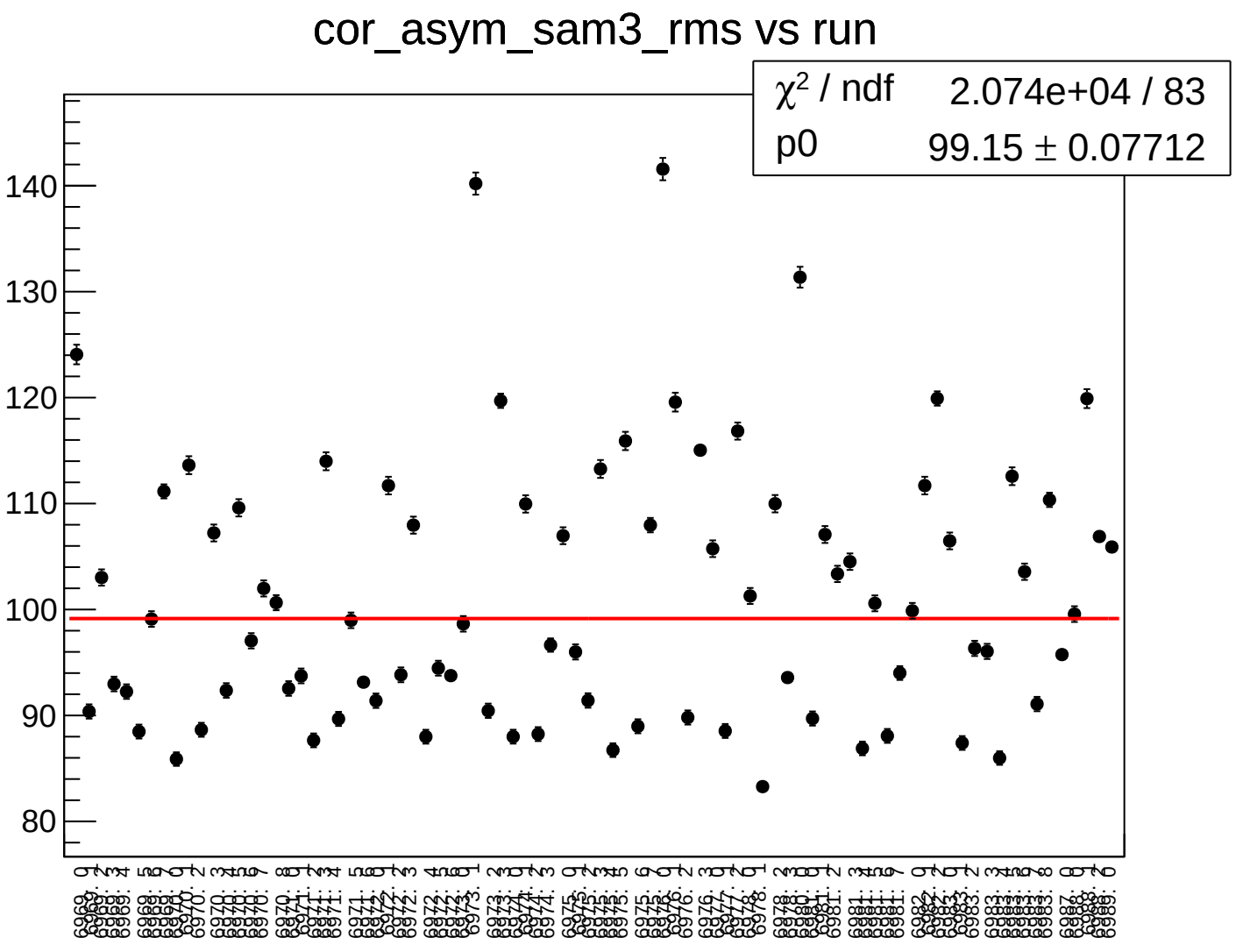

reg_asym_sam3_rms vs run
χ² / ndf 2.074e+04 / 83
p0 99.15 ± 0.07712
140
130
120
110
100
90
80

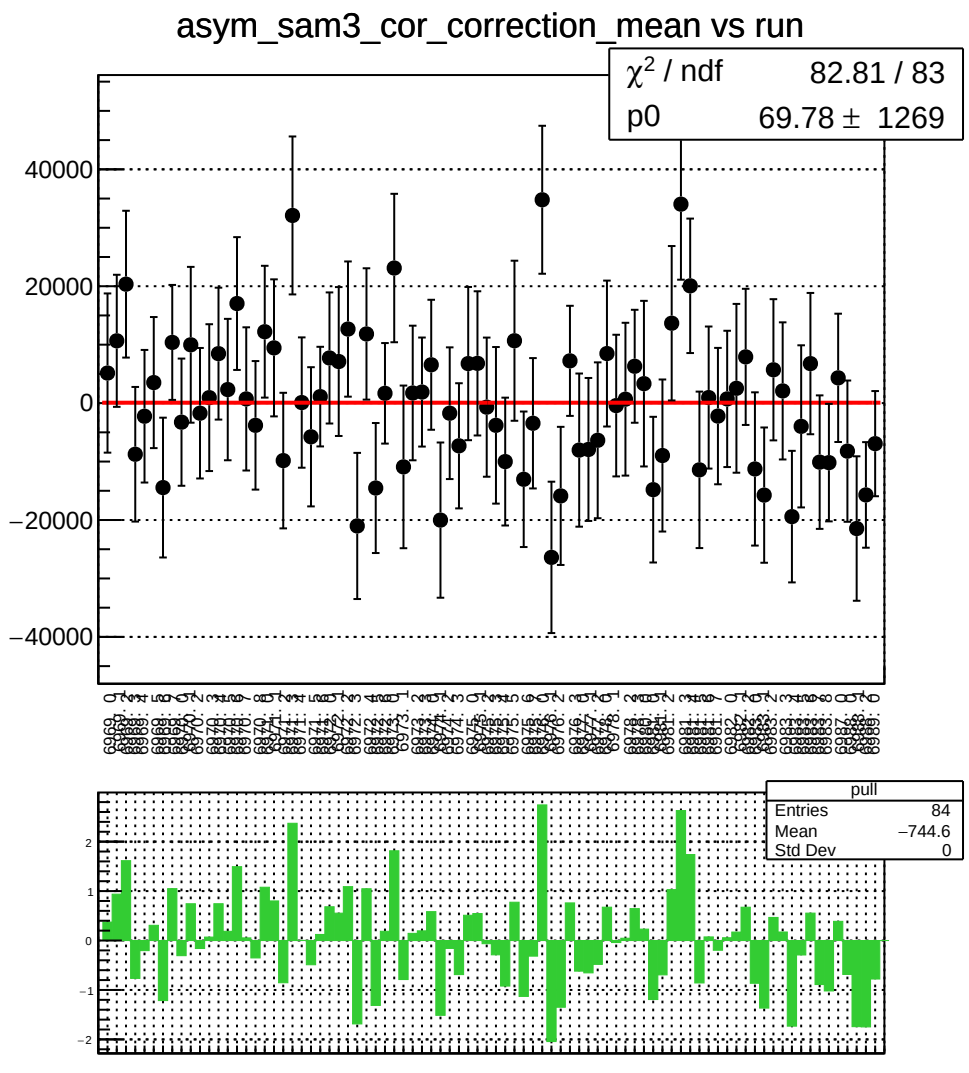

asym_sam3_reg_correction_mean vs run
χ² / ndf 82.81 / 83
p0 69.79 ± 1269
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −744.6
Std Dev 0
pull1D
Entries 84
Mean 0.007806
Std Dev 0.9929

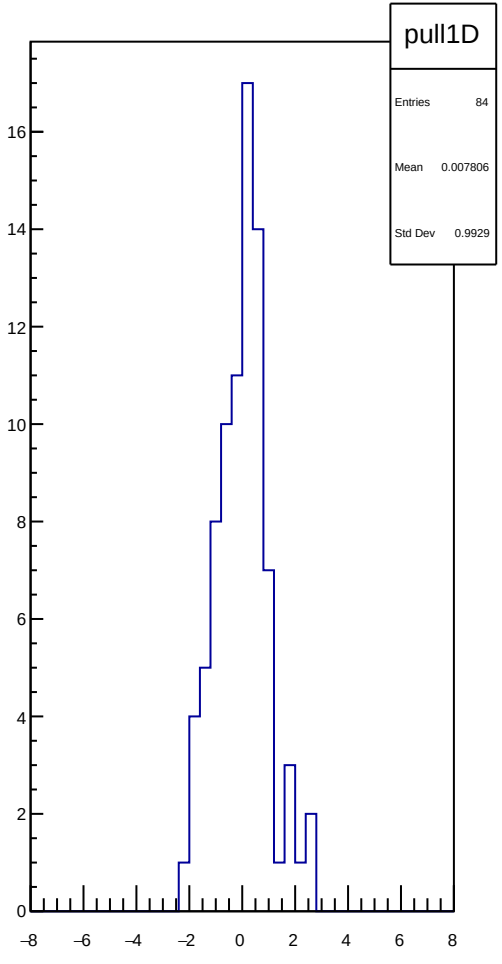

asym_sam3_reg_correction_rms vs run
χ² / ndf 8676 / 83
p0 1158 ± 0.8973
1500
1400
1300
1200
1100
1000

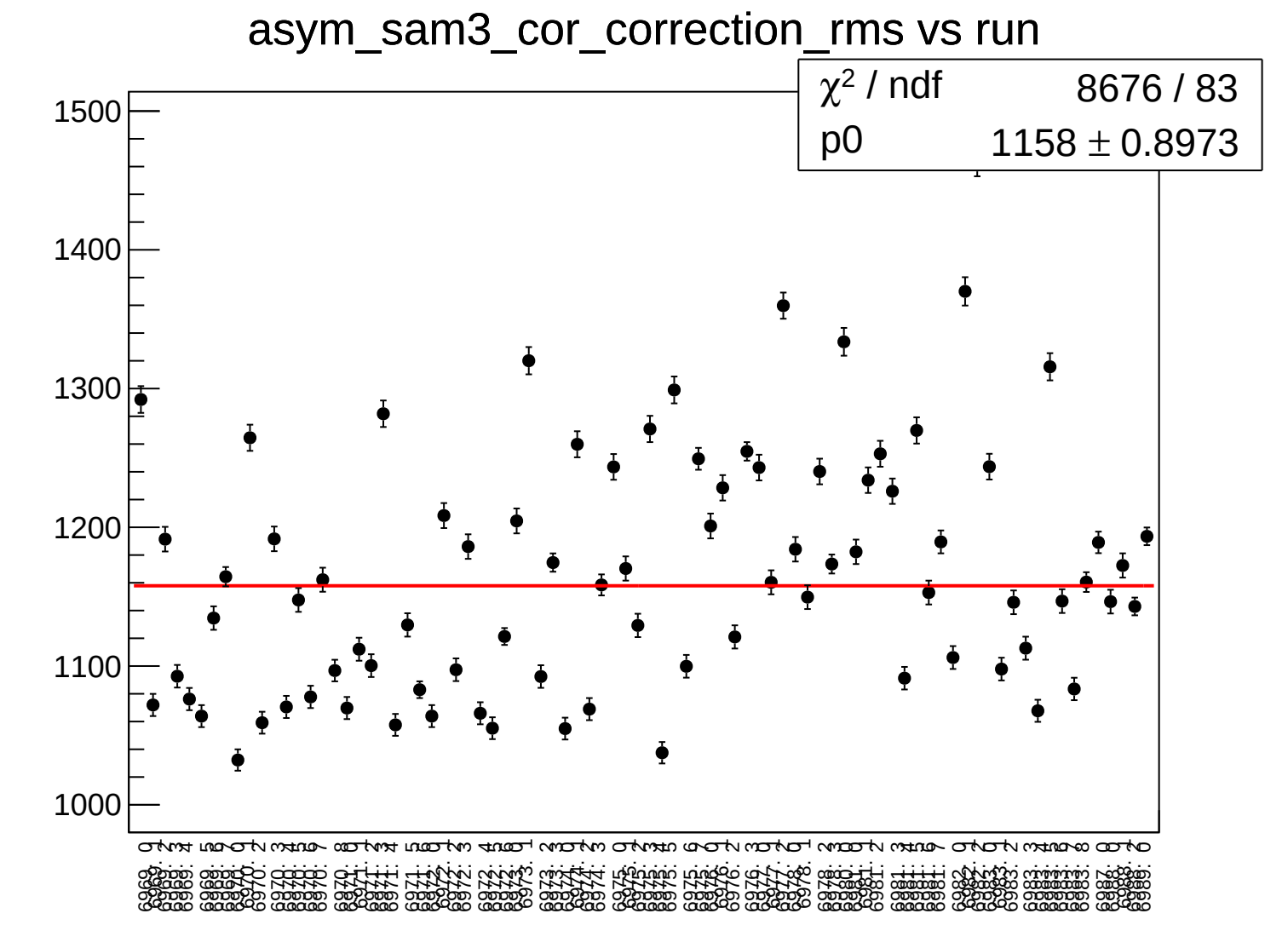

cor_asym_sam3_mean vs run
χ² / ndf 97.73 / 83
p0 −248.9 ± 109.1
pull
Entries 84
Mean 316.6
Std Dev 0

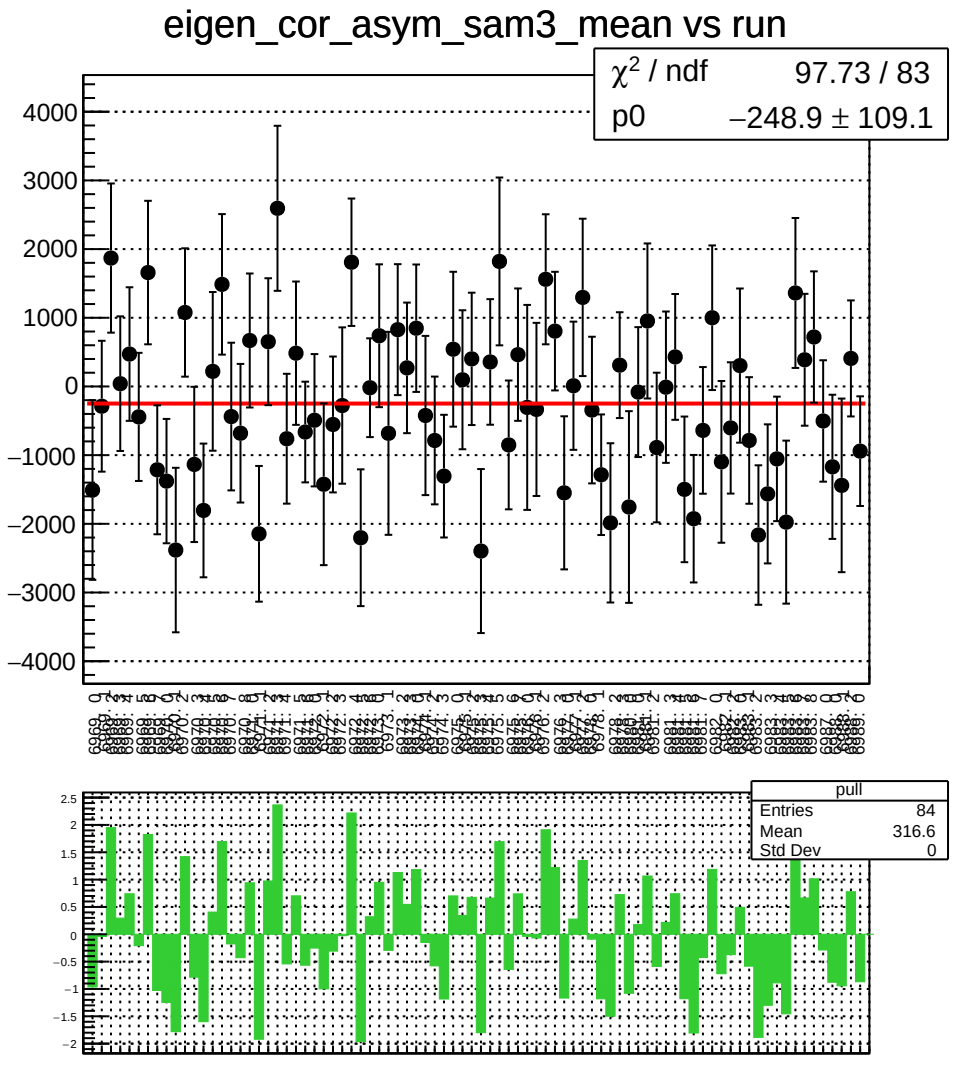

pull1D
Entries 84
Mean −0.01178
Std Dev 1.079

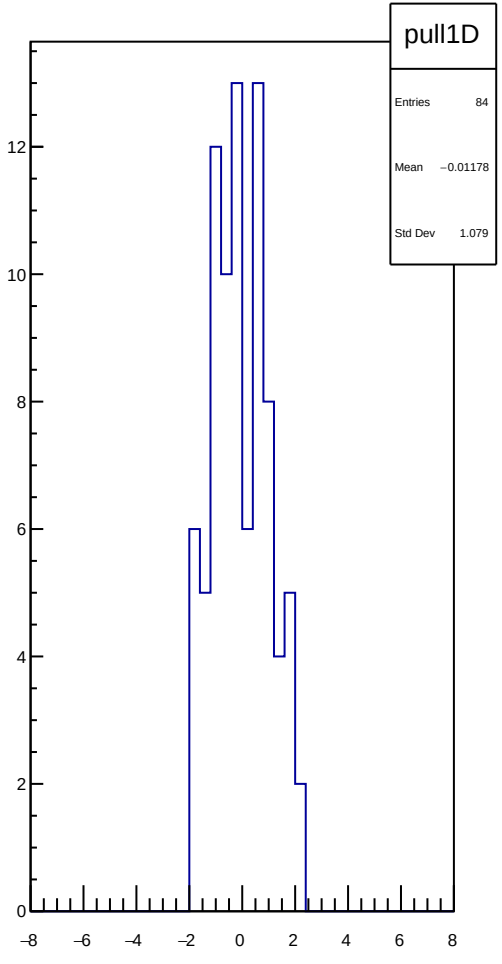

cor_asym_sam3_rms vs run
χ² / ndf 2.074e+04 / 83
p0 99.15 ± 0.07712
140
130
120
110
100
90
80

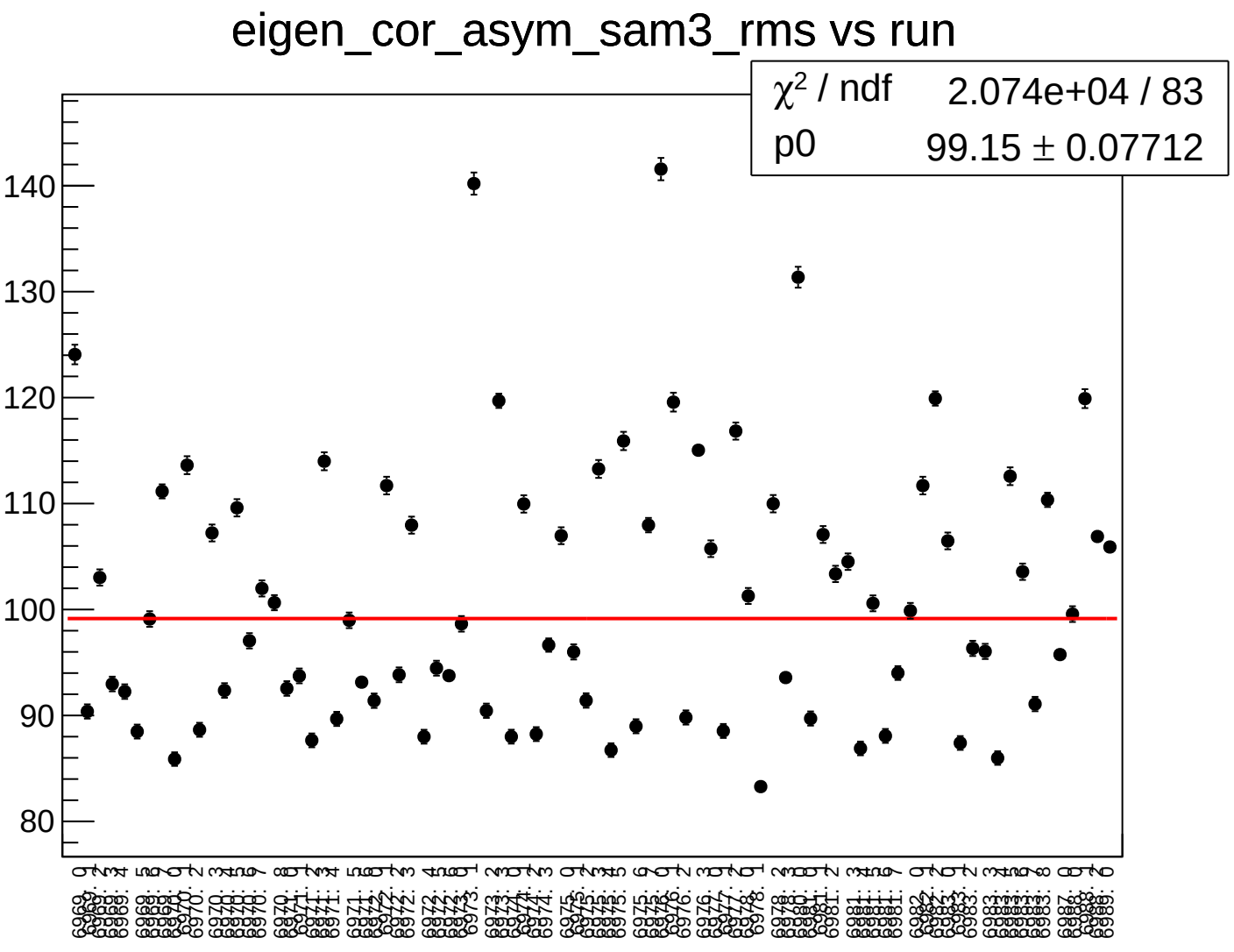

asym_sam3_cor_correction_mean vs run
χ² / ndf 82.81 / 83
p0 69.78 ± 1269
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −744.6
Std Dev 0
2
1
0
−1
−2

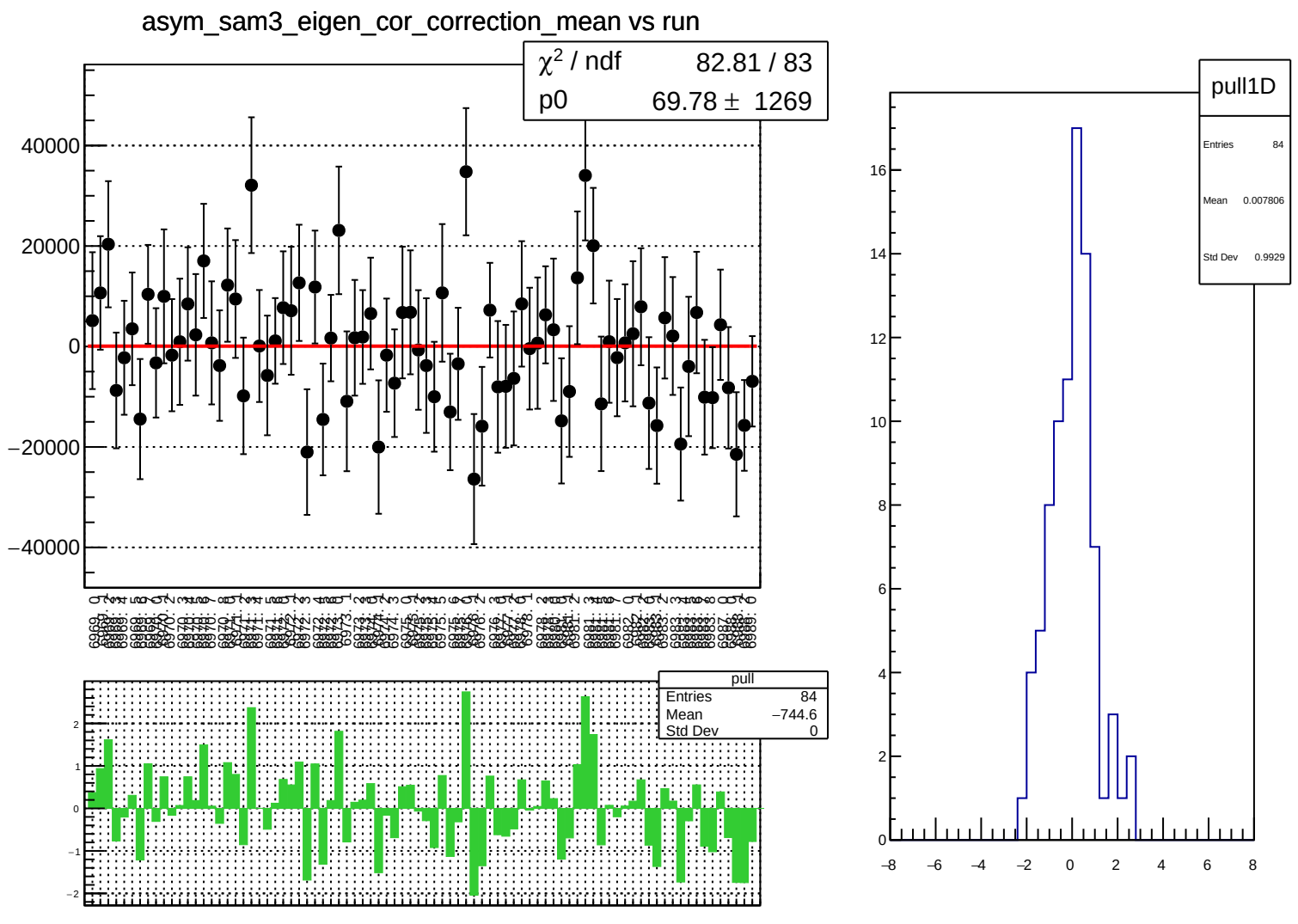

pull1D
Entries 84
Mean 0.007806
Std Dev 0.9929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

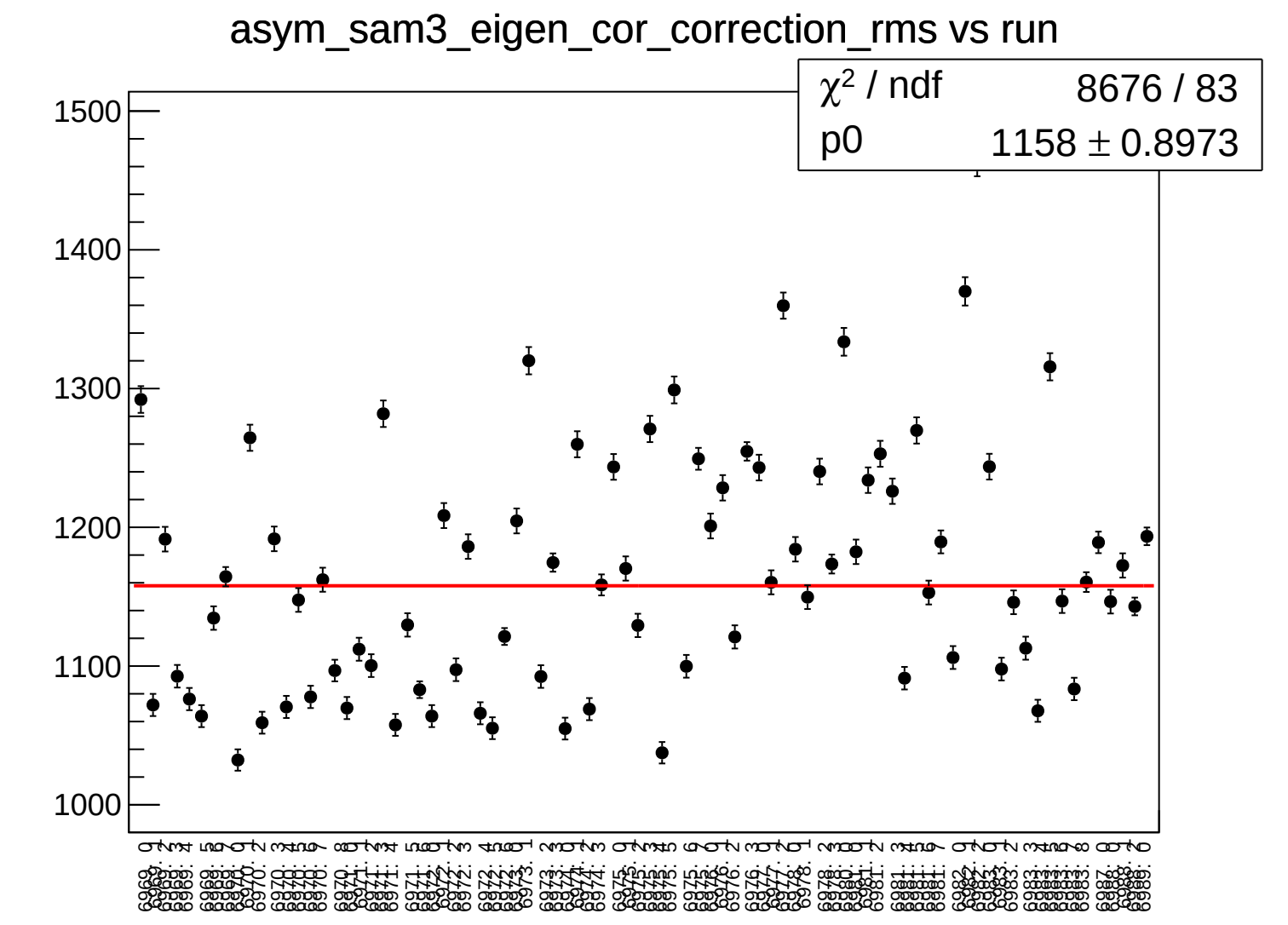

asym_sam3_cor_correction_rms vs run
χ² / ndf 8676 / 83
p0 1158 ± 0.8973
1500
1400
1300
1200
1100
1000

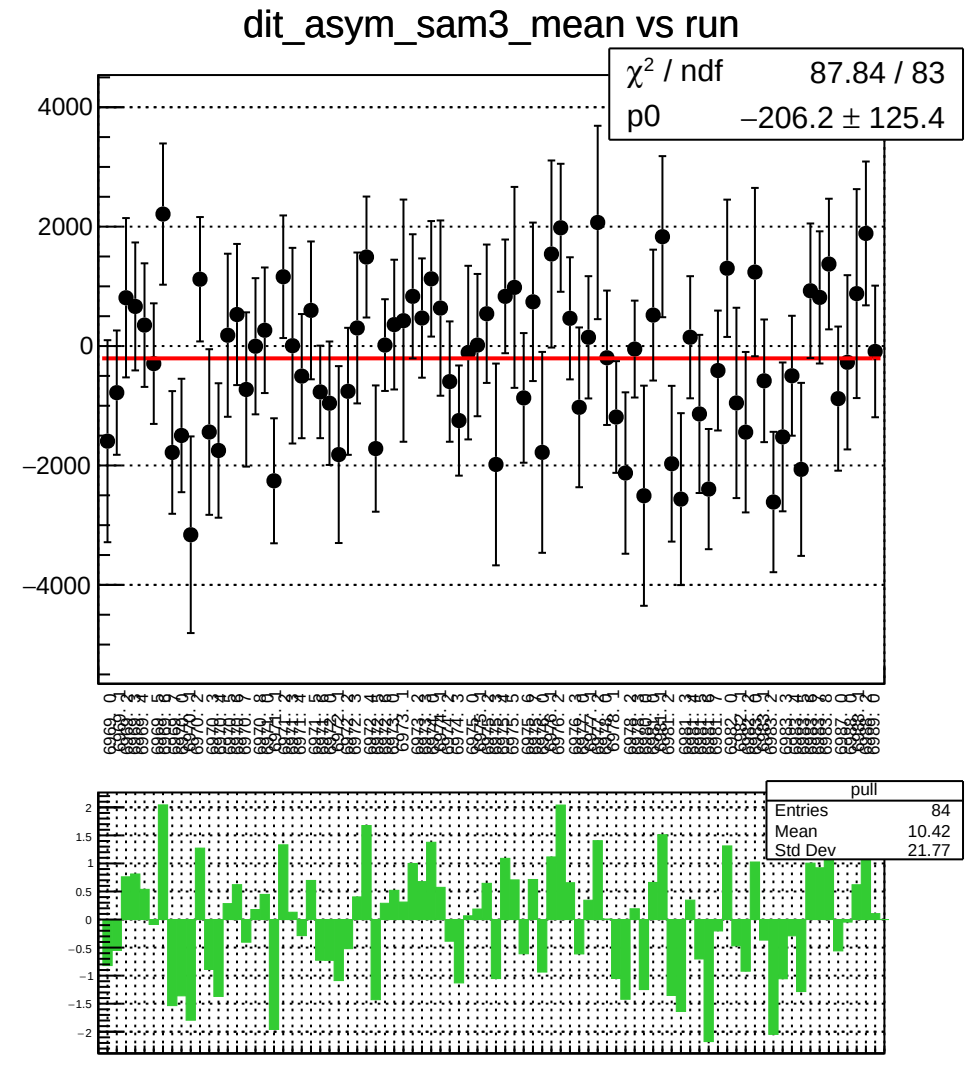

eigen_cor_asym_sam3_mean vs run
χ² / ndf 97.73 / 83
p0 −248.9 ± 109.1
pull
Entries 84
Mean 316.6
Std Dev 0

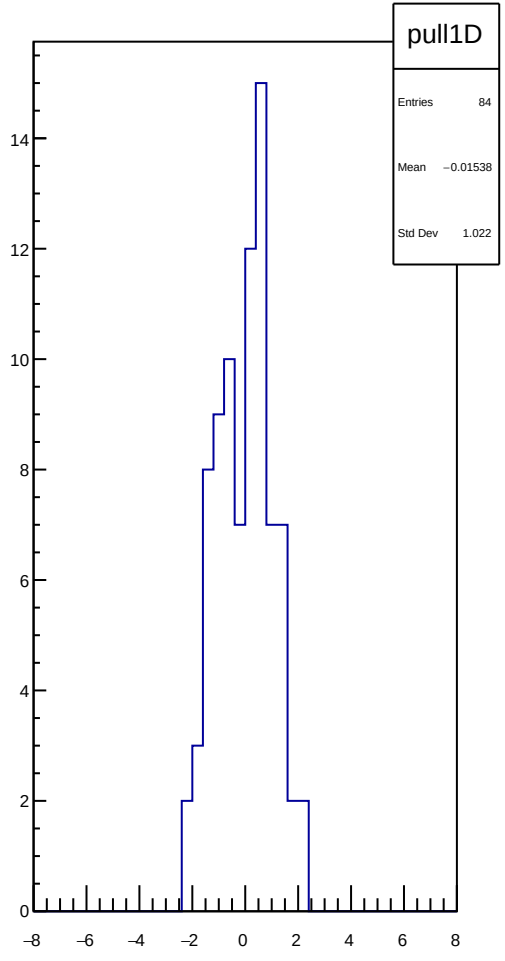

pull1D
Entries 84
Mean −0.01178
Std Dev 1.079

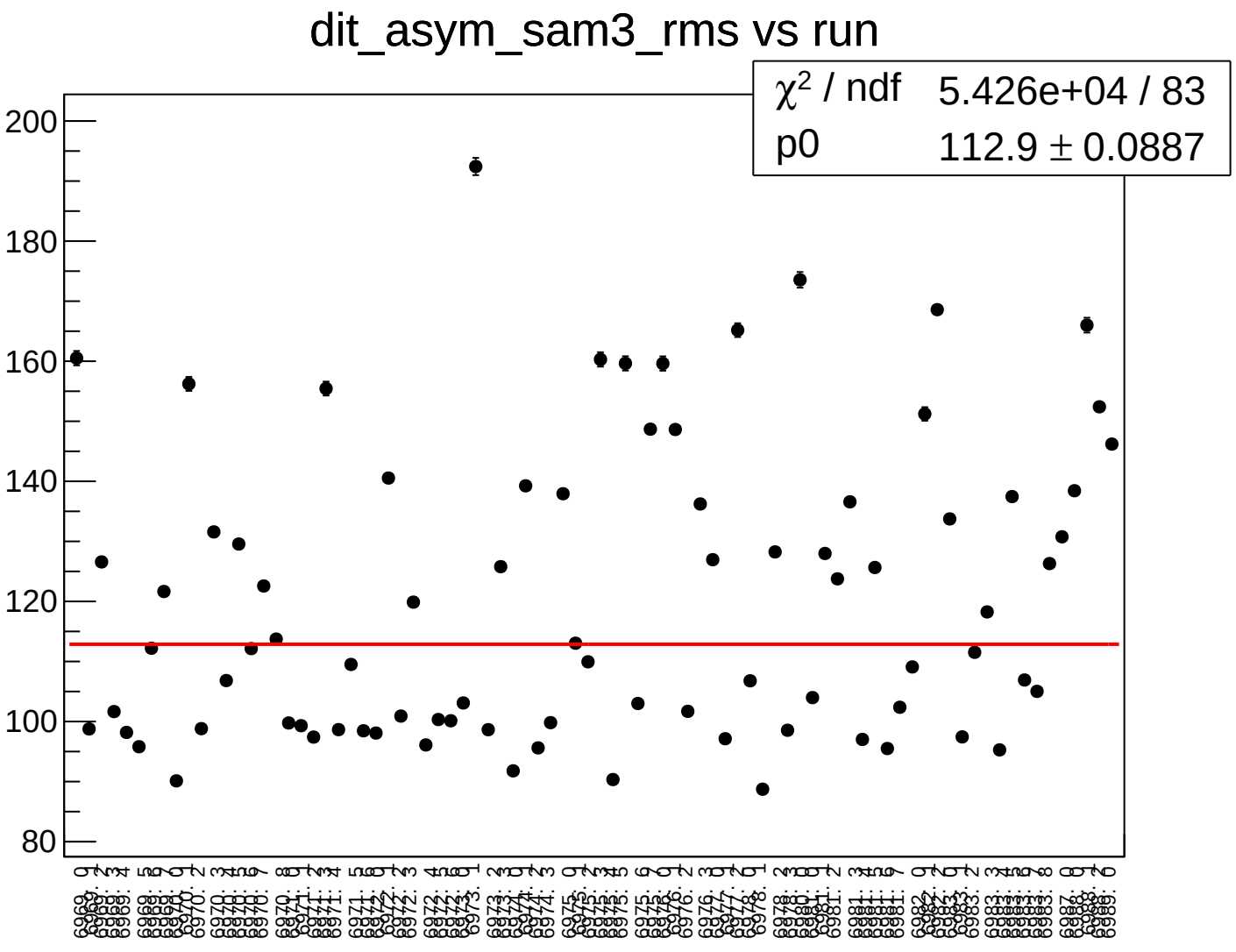

eigen_cor_asym_sam3_rms vs run
χ² / ndf 2.074e+04 / 83
p0 99.15 ± 0.07712
140
130
120
110
100
90
80

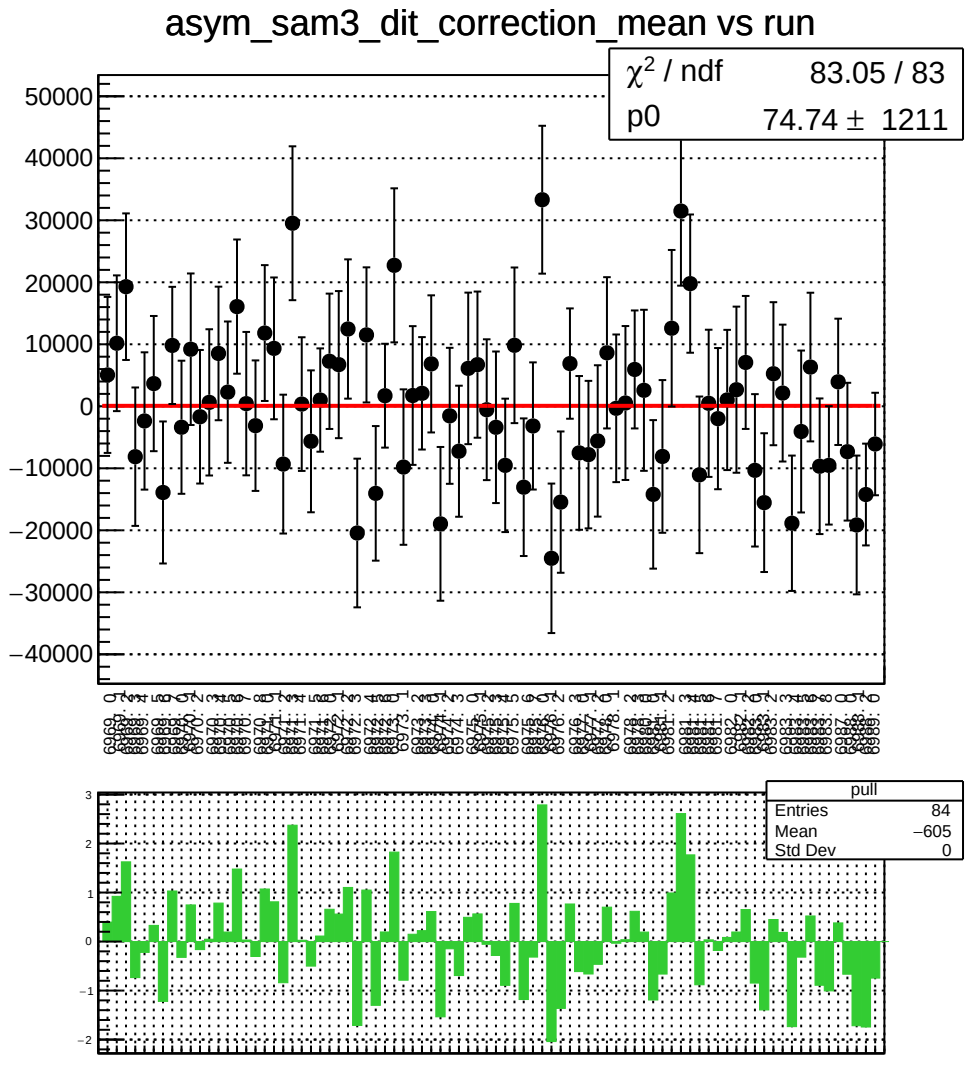

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 82.81 / 83
p0 69.78 ± 1269
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −744.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.007806
Std Dev 0.9929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

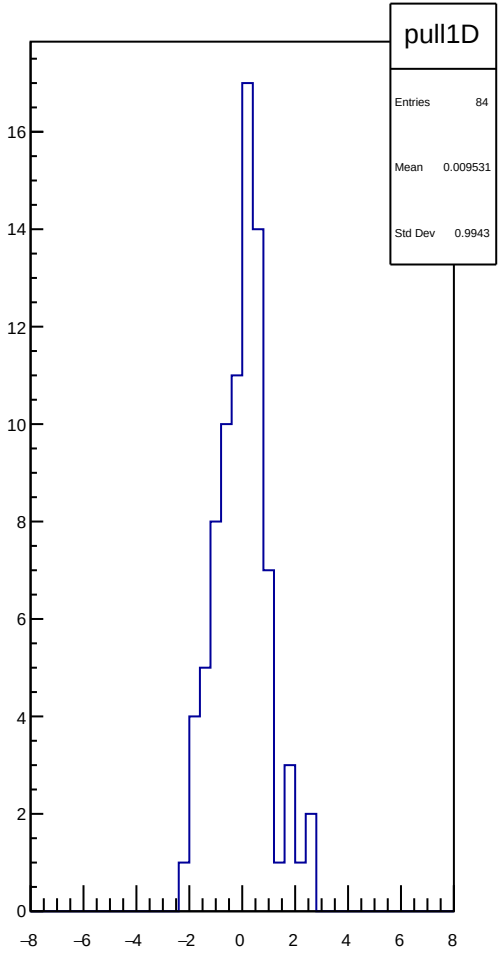

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 8676 / 83
p0 1158 ± 0.8973
1500
1400
1300
1200
1100
1000

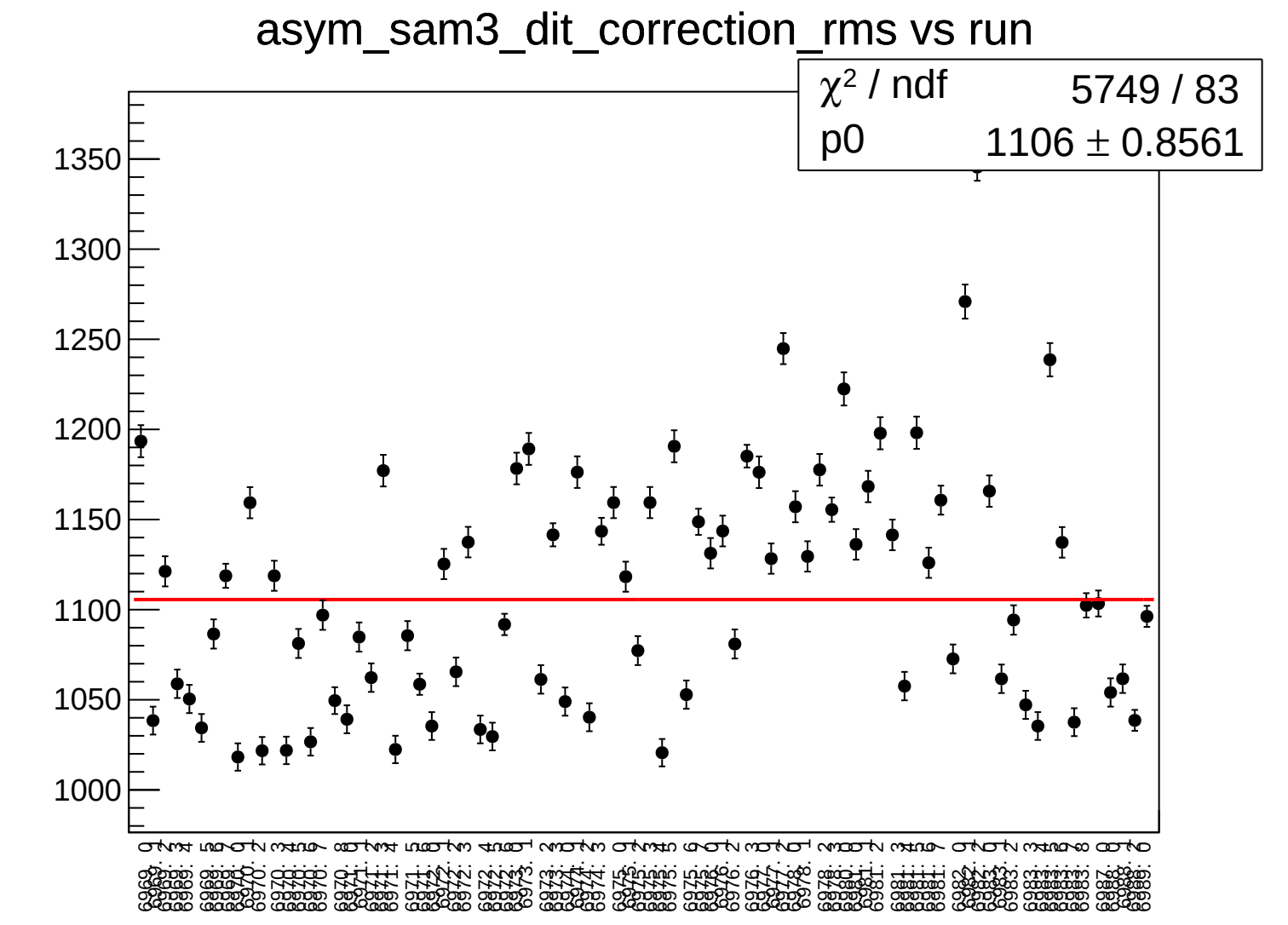

dit_asym_sam3_mean vs run
χ² / ndf 87.84 / 83
p0 −206.2 ± 125.4
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 10.42
Std Dev 21.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

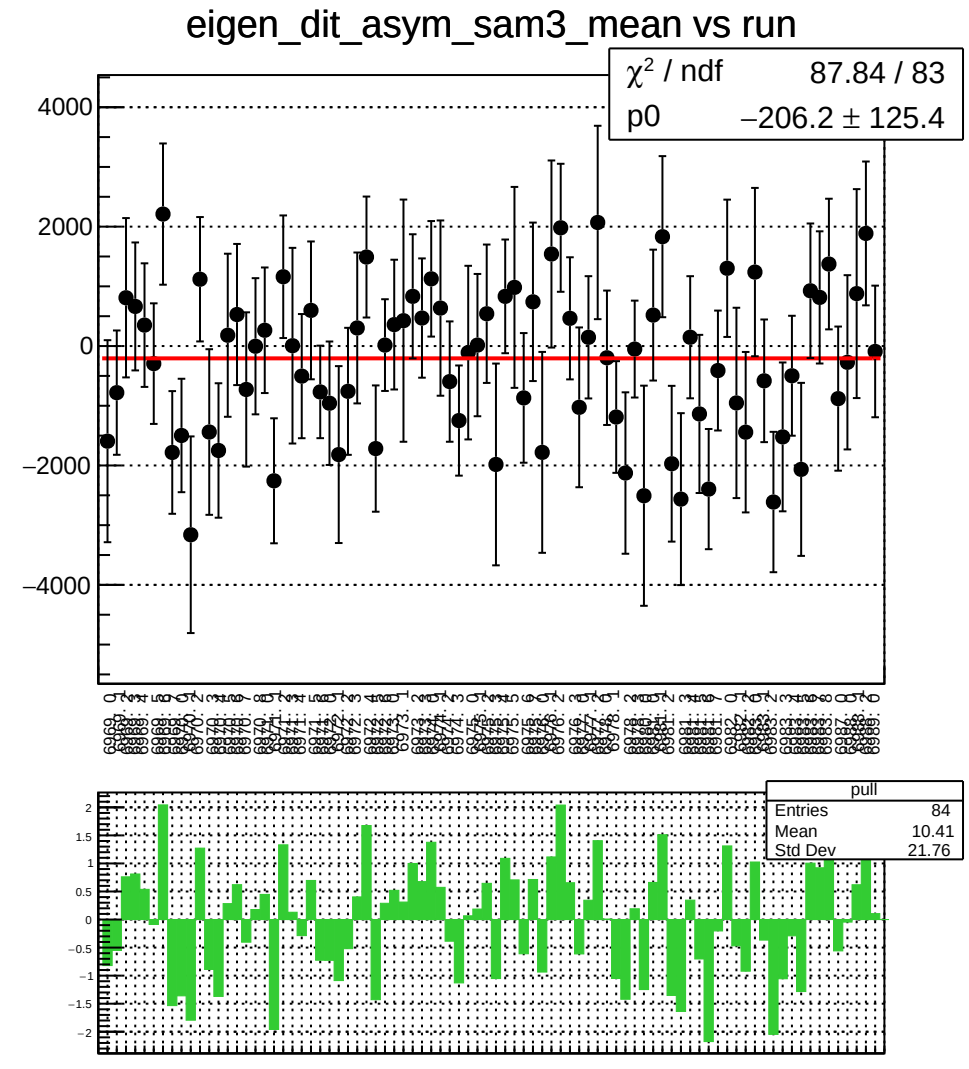

pull1D
Entries 84
Mean −0.01538
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

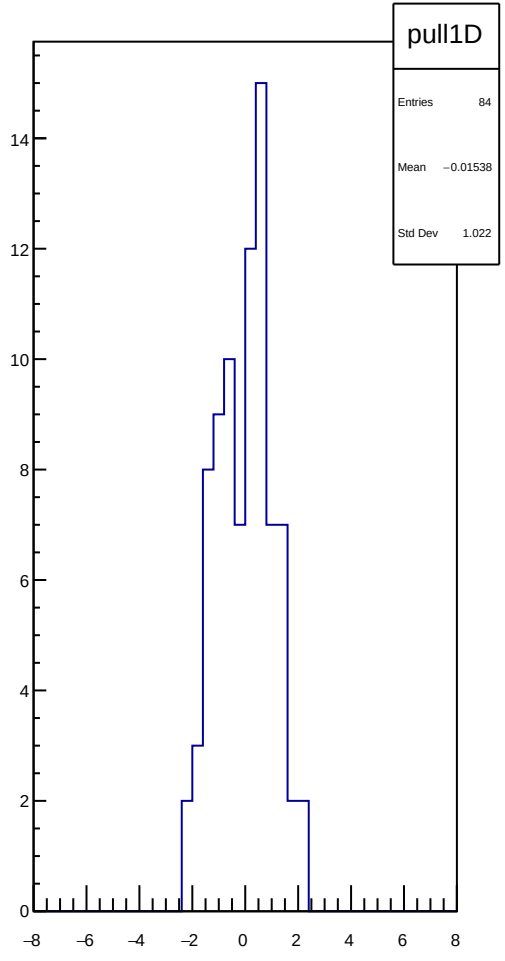

dit_asym_sam3_rms vs run
χ² / ndf 5.426e+04 / 83
p0 112.9 ± 0.0887
200
180
160
140
120
100
80

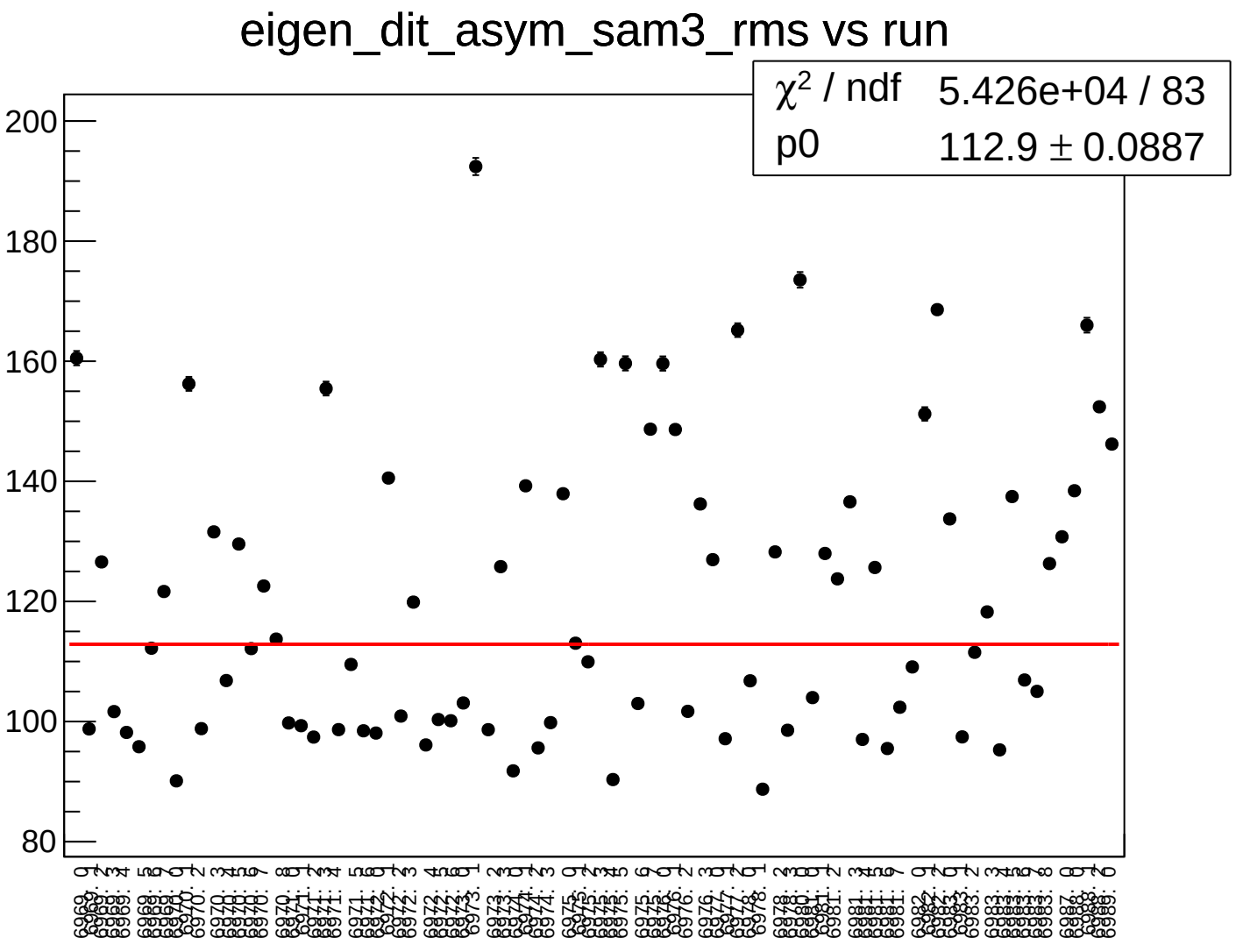

asym_sam3_dit_correction_mean vs run
χ² / ndf 83.05 / 83
p0 74.74 ± 1211
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −605
Std Dev 0
3
2
1
0
−1
−2

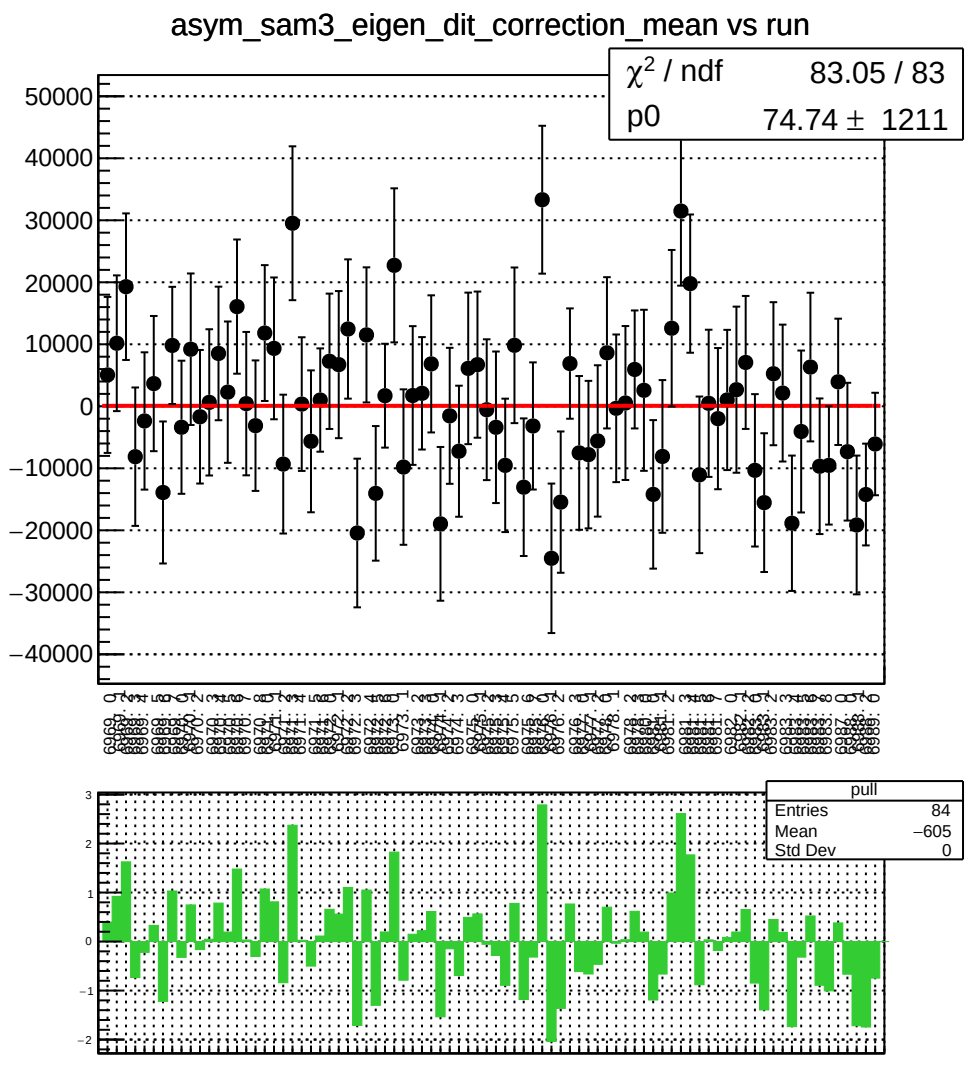

pull1D
Entries 84
Mean 0.009531
Std Dev 0.9943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

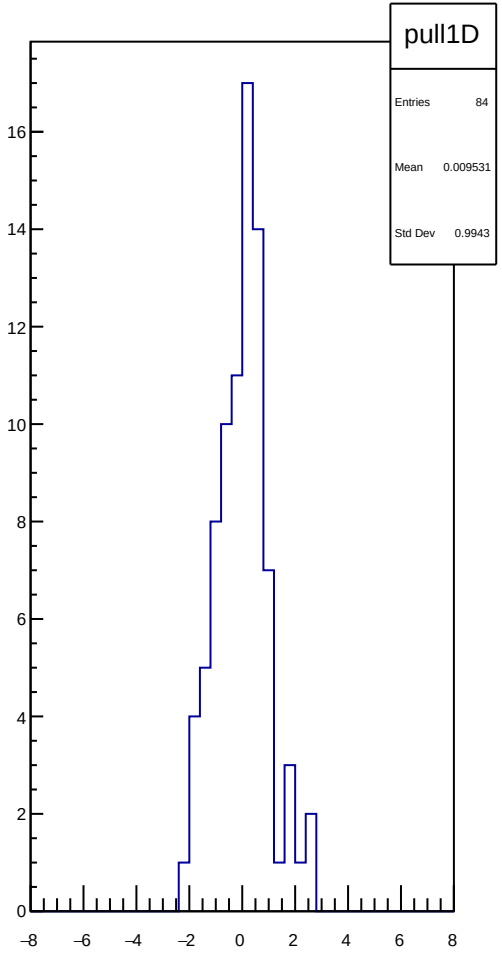

asym_sam3_dit_correction_rms vs run
χ² / ndf 5749 / 83
p0 1106 ± 0.8561
1350
1300
1250
1200
1150
1100
1050
1000

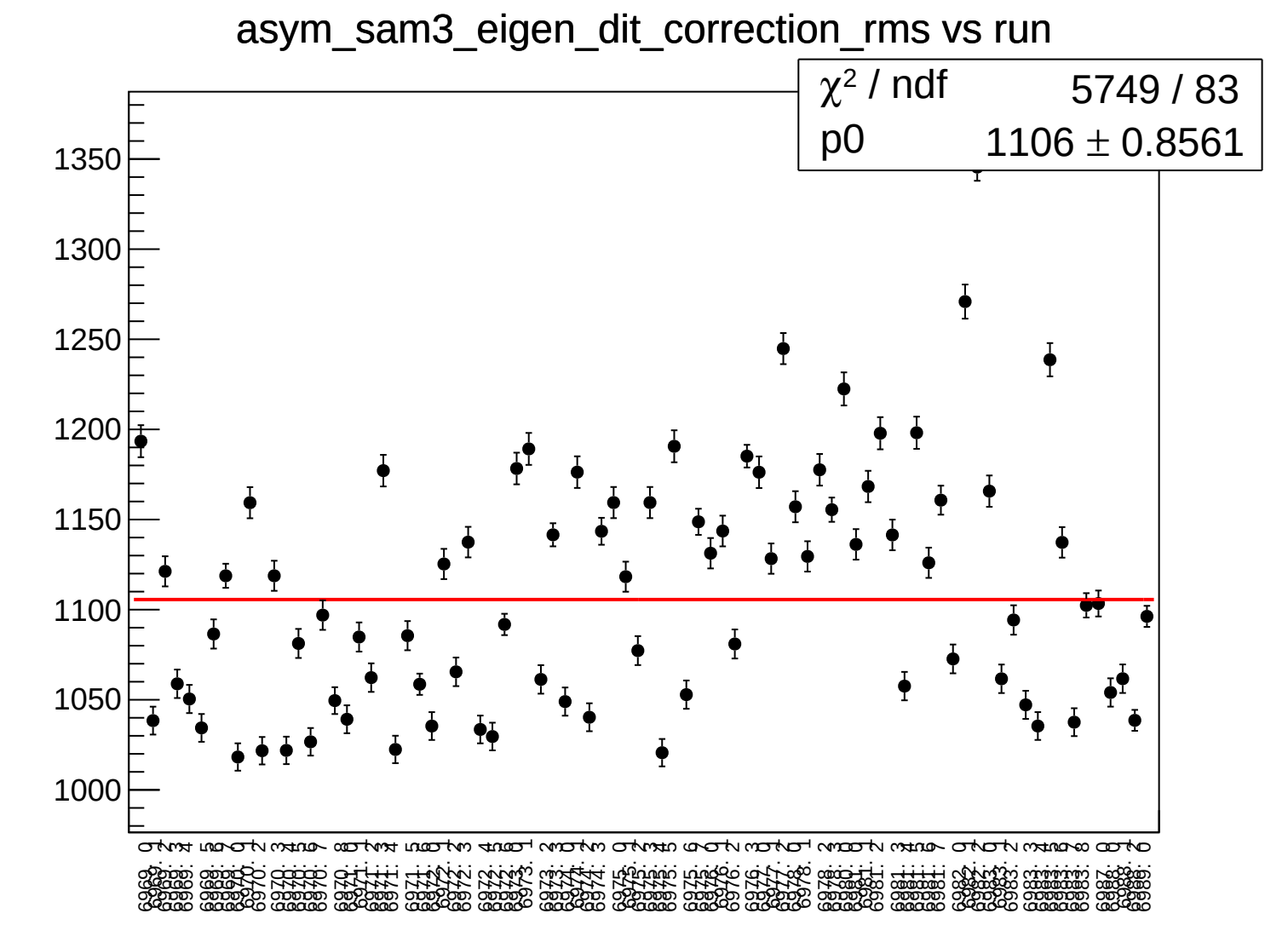

eigen_dit_asym_sam3_mean vs run
χ² / ndf 87.84 / 83
p0 −206.2 ± 125.4
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 10.41
Std Dev 21.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

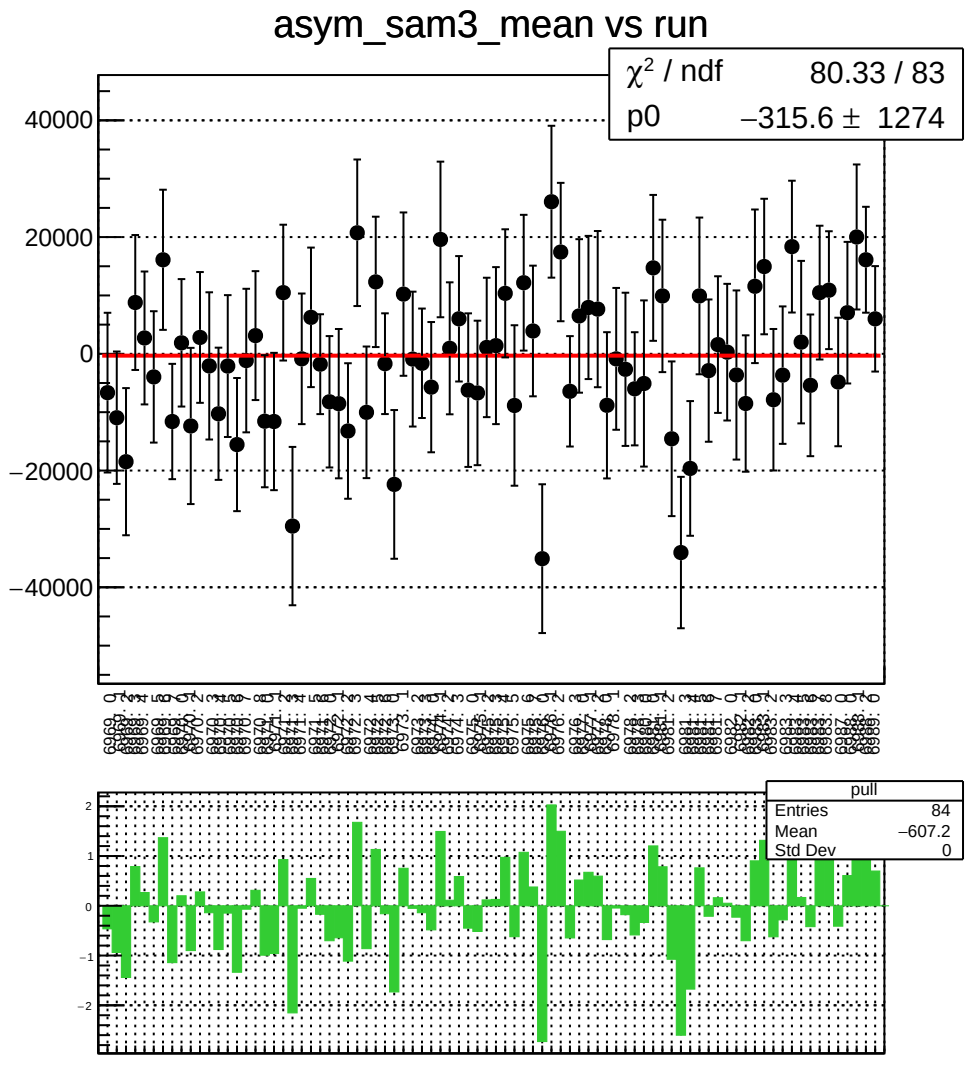

pull1D
Entries 84
Mean −0.01538
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

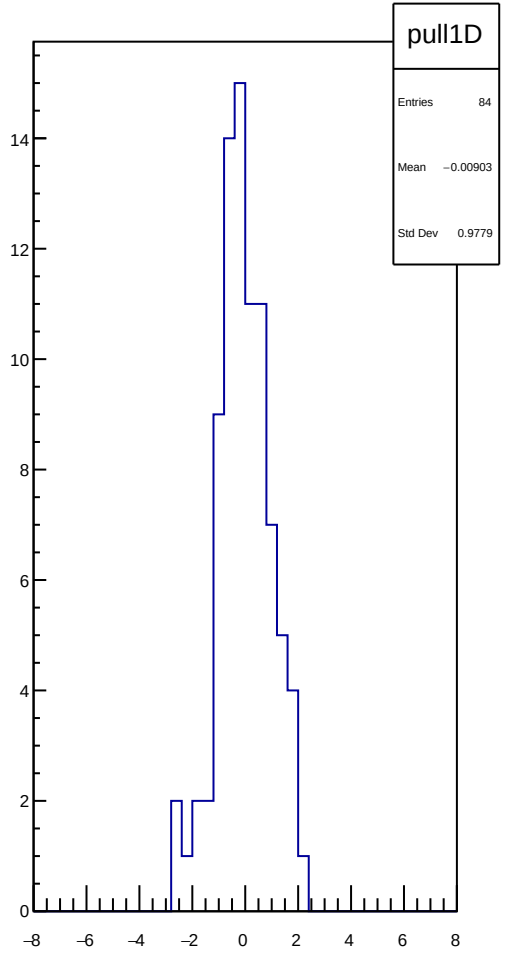

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 5.426e+04 / 83
p0 112.9 ± 0.0887
200
180
160
140
120
100
80

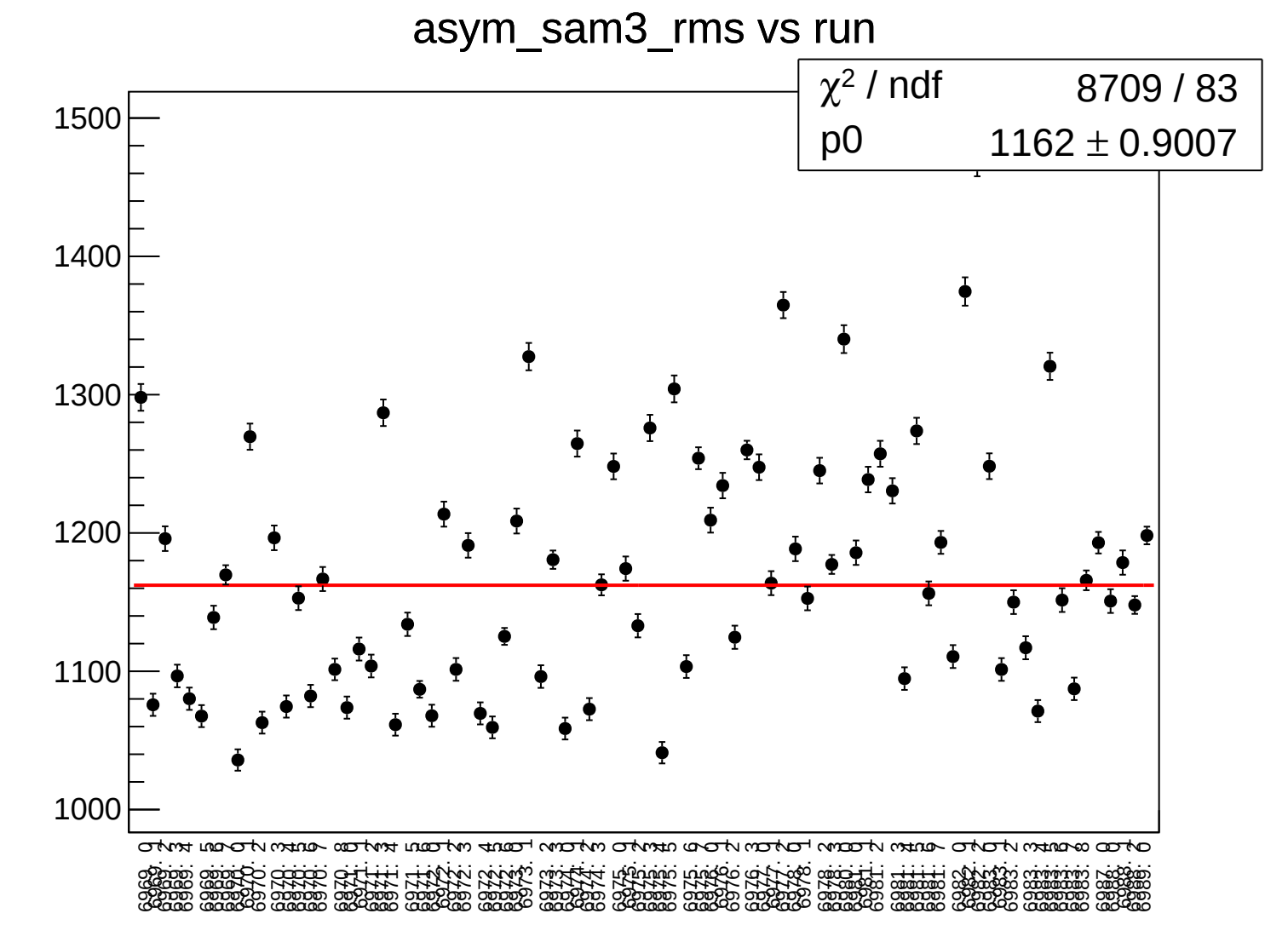

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 83.05 / 83
p0 74.74 ± 1211
pull
Entries 84
Mean −605
Std Dev 0

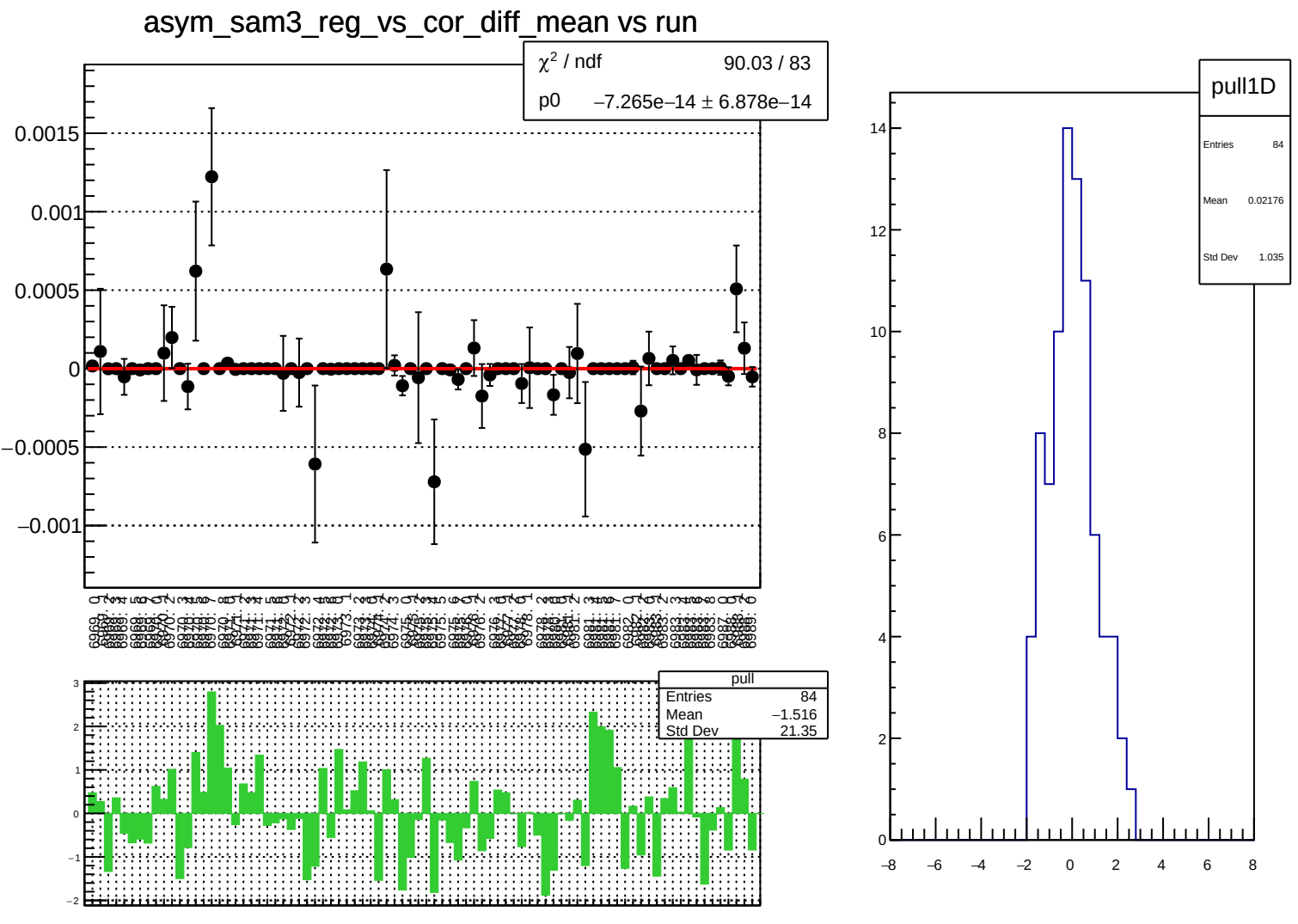

pull1D
Entries 84
Mean 0.009531
Std Dev 0.9943

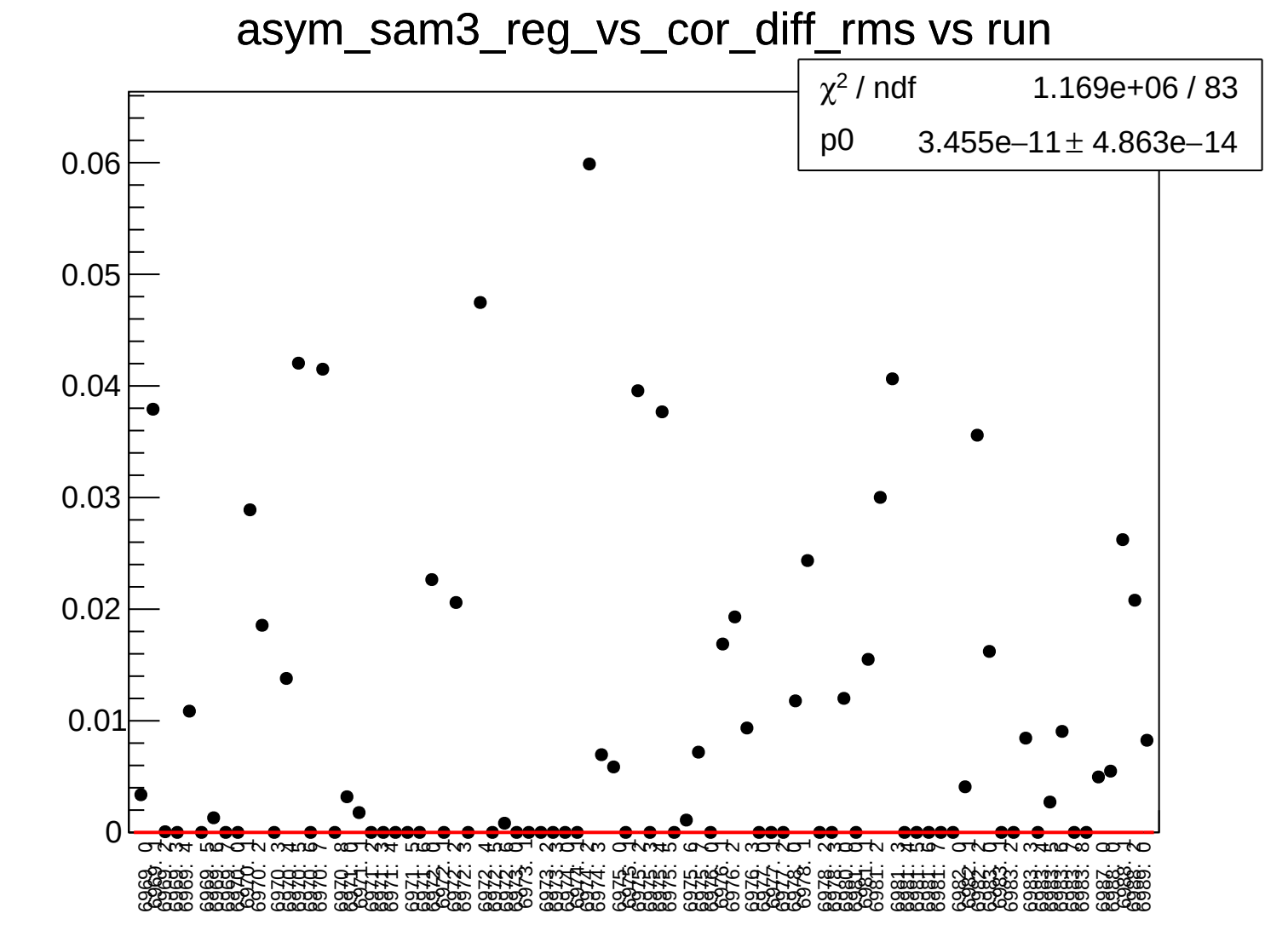

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 5749 / 83
p0 1106 ± 0.8561
1350
1300
1250
1200
1150
1100
1050
1000

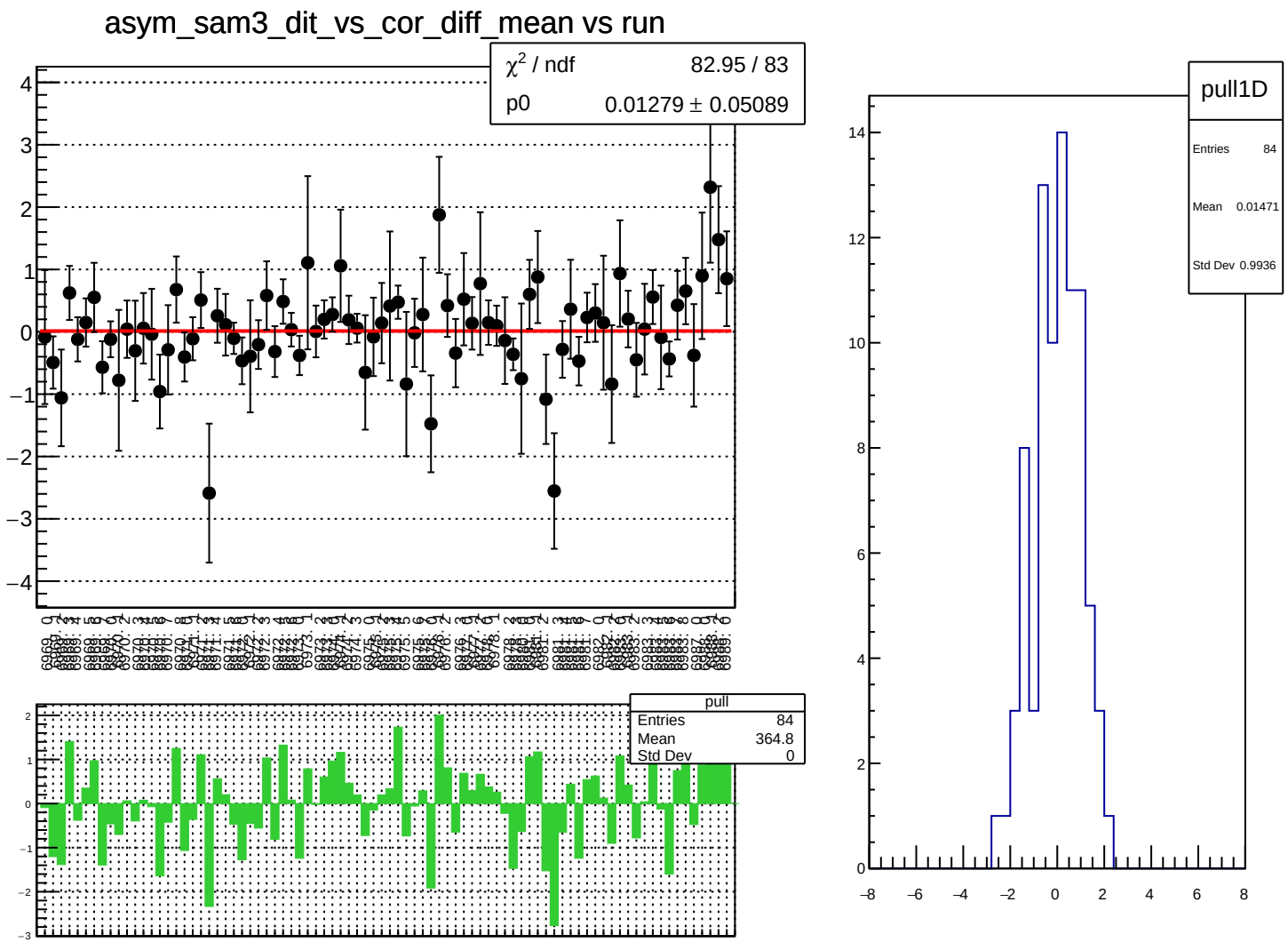

asym_sam3_mean vs run
χ² / ndf 80.33 / 83
p0 −315.6 ± 1274
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −607.2
Std Dev 0
2
1
0
−1
−2

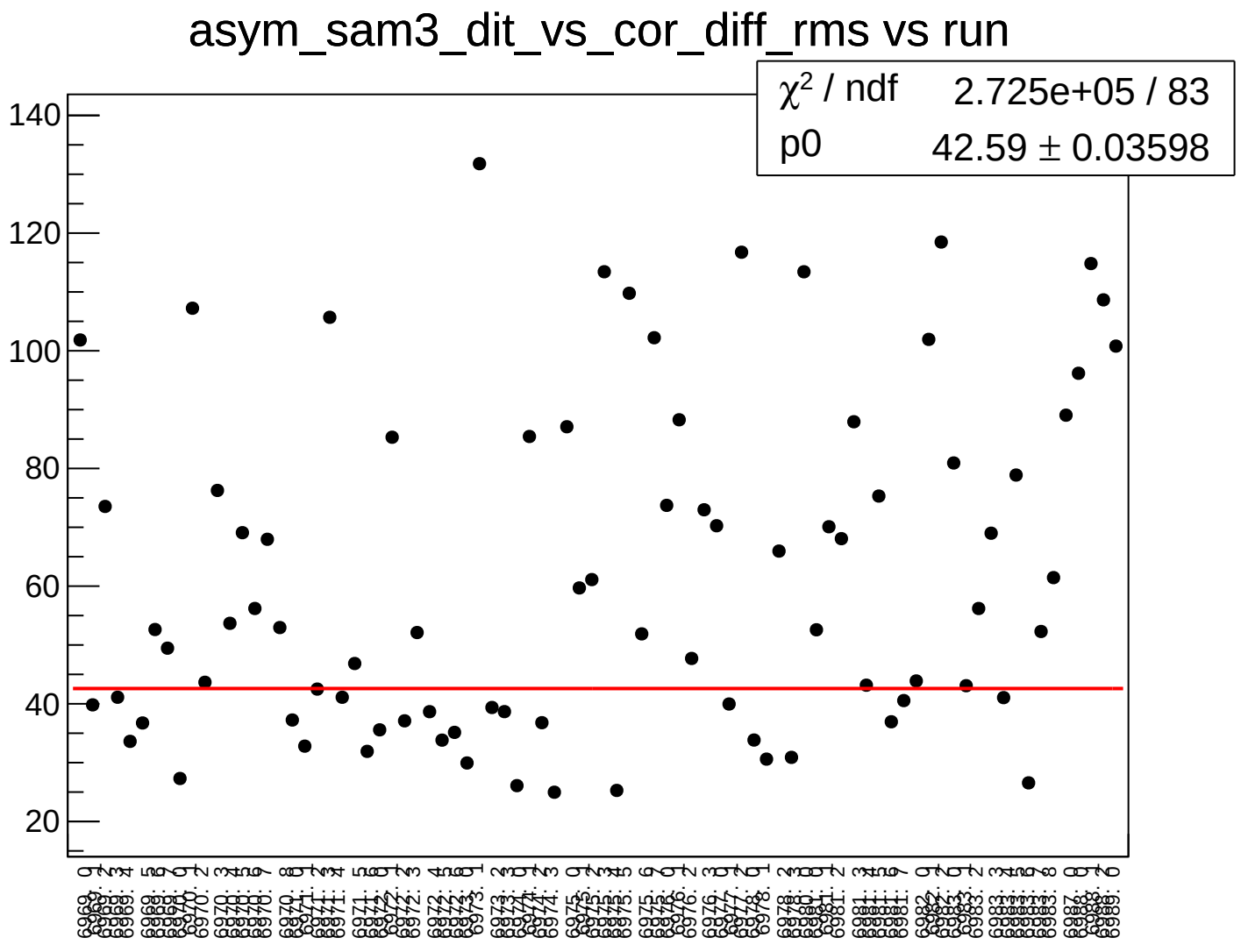

pull1D
Entries 84
Mean −0.00903
Std Dev 0.9779
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

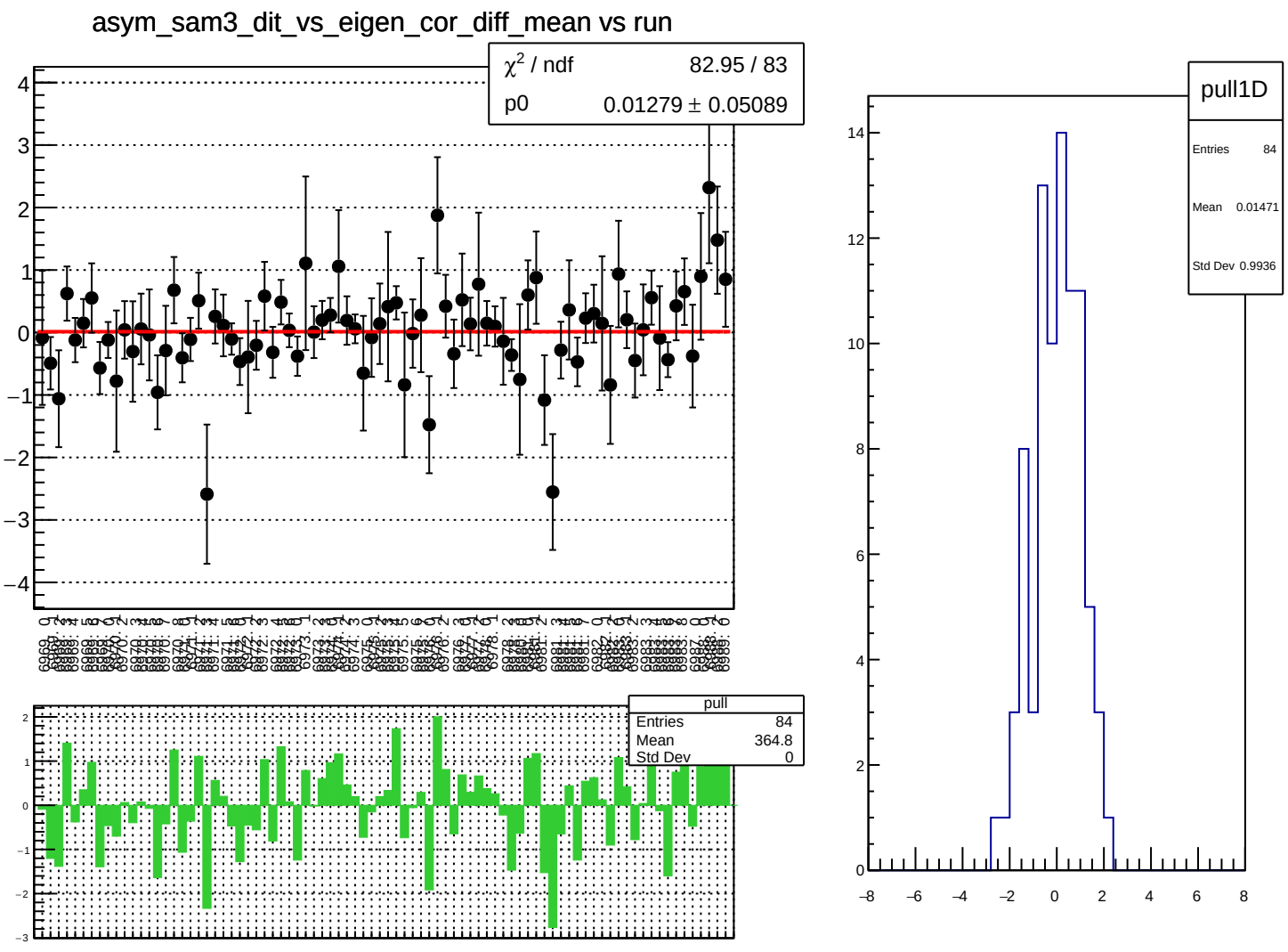

asym_sam3_rms vs run
χ² / ndf 8709 / 83
p0 1162 ± 0.9007
1500
1400
1300
1200
1100
1000

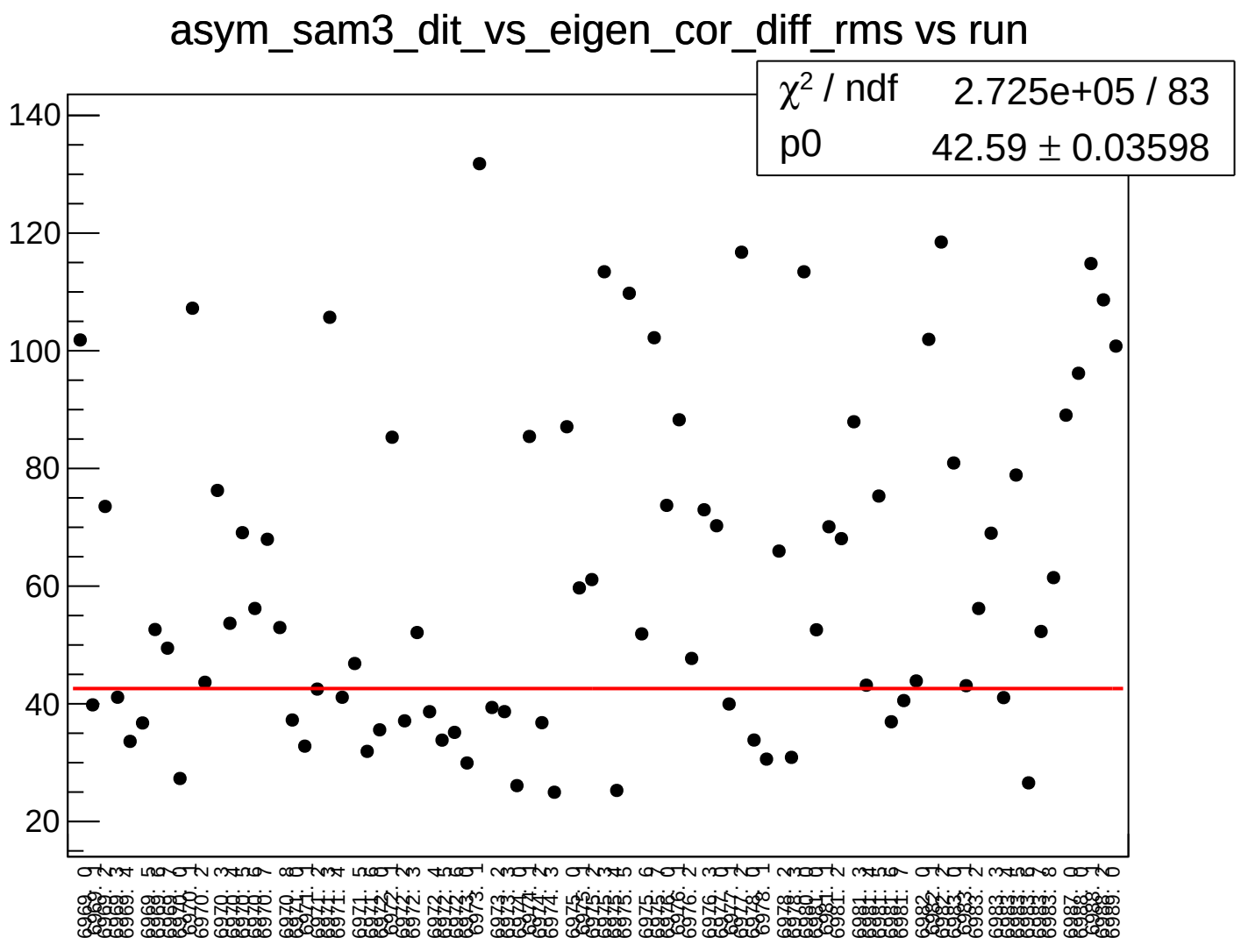

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 90.03 / 83
p0 −7.265e−14 ± 6.878e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean −1.516
Std Dev 21.35
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.02176
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

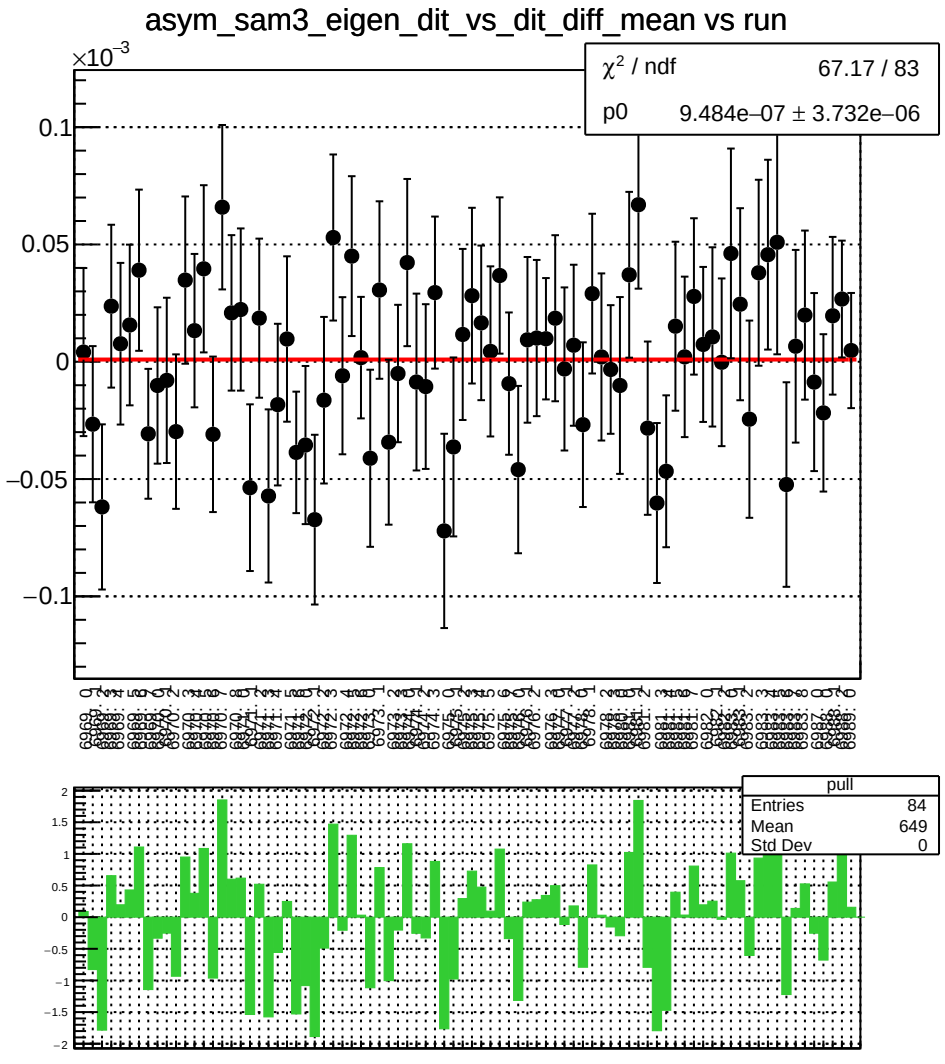

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.169e+06 / 83
p0 3.455e−11 ± 4.863e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

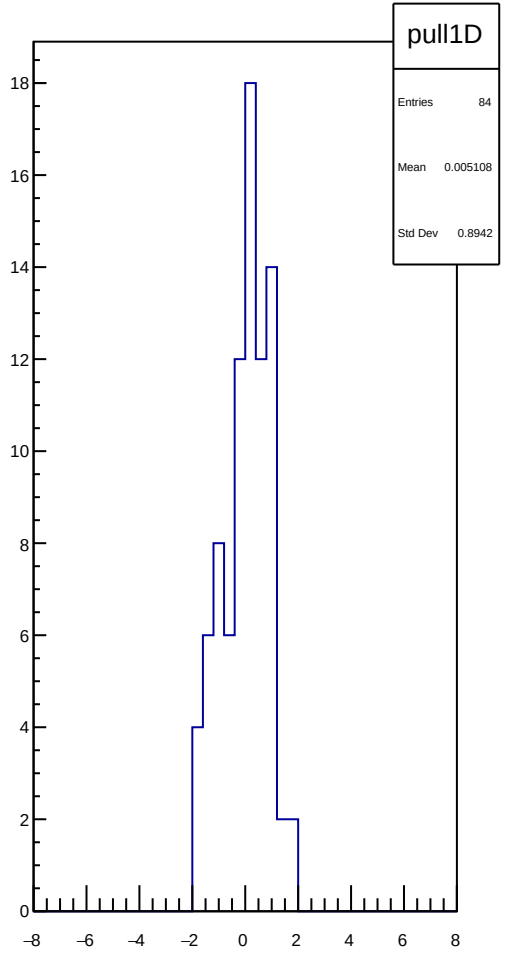

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 82.95 / 83
p0 0.01279 ± 0.05089
pull
Entries 84
Mean 364.8
Std Dev 0
pull1D
Entries 84
Mean 0.01471
Std Dev 0.9936

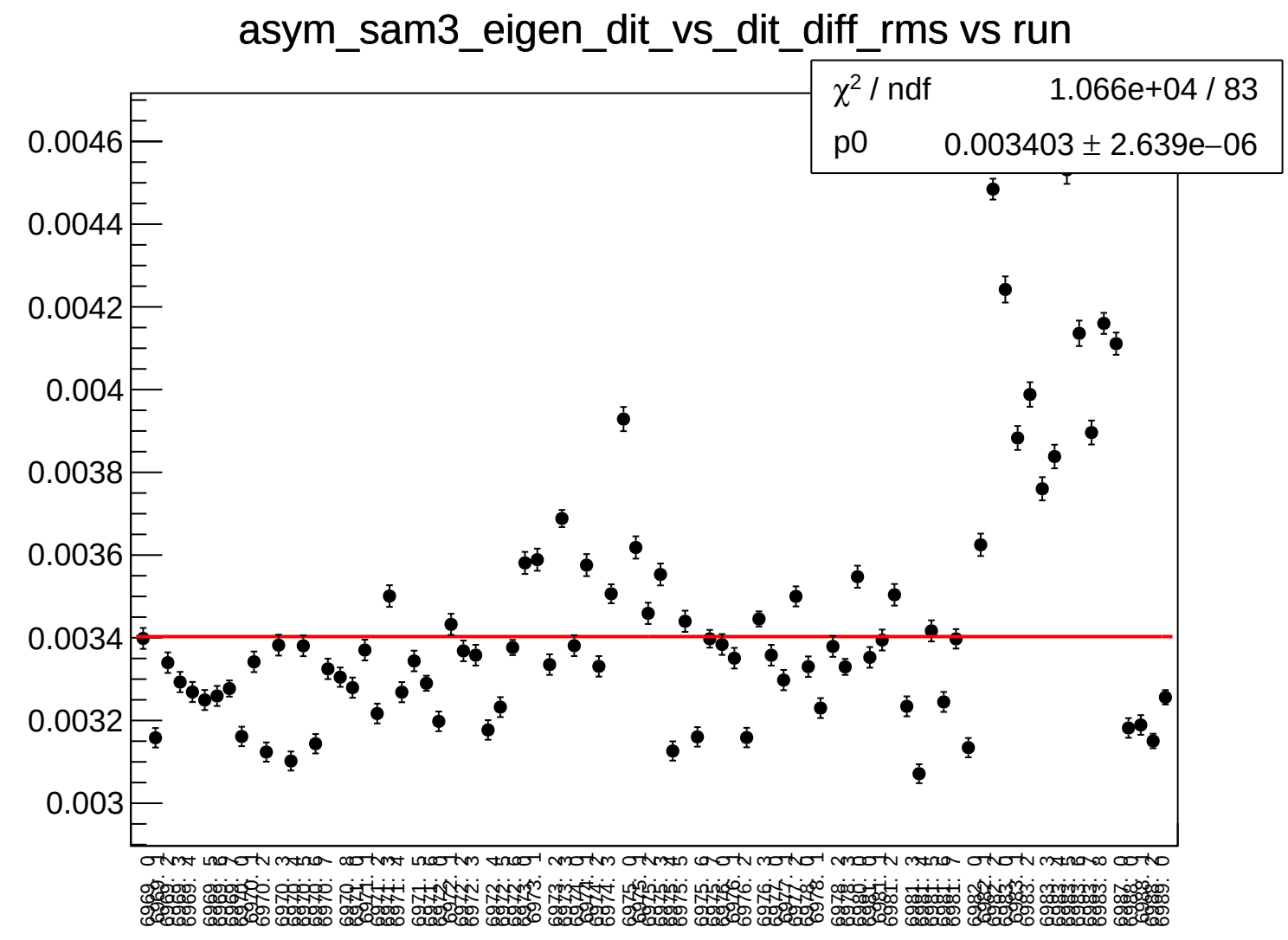

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.725e+05 / 83
p0 42.59 ± 0.03598
140
120
100
80
60
40
20

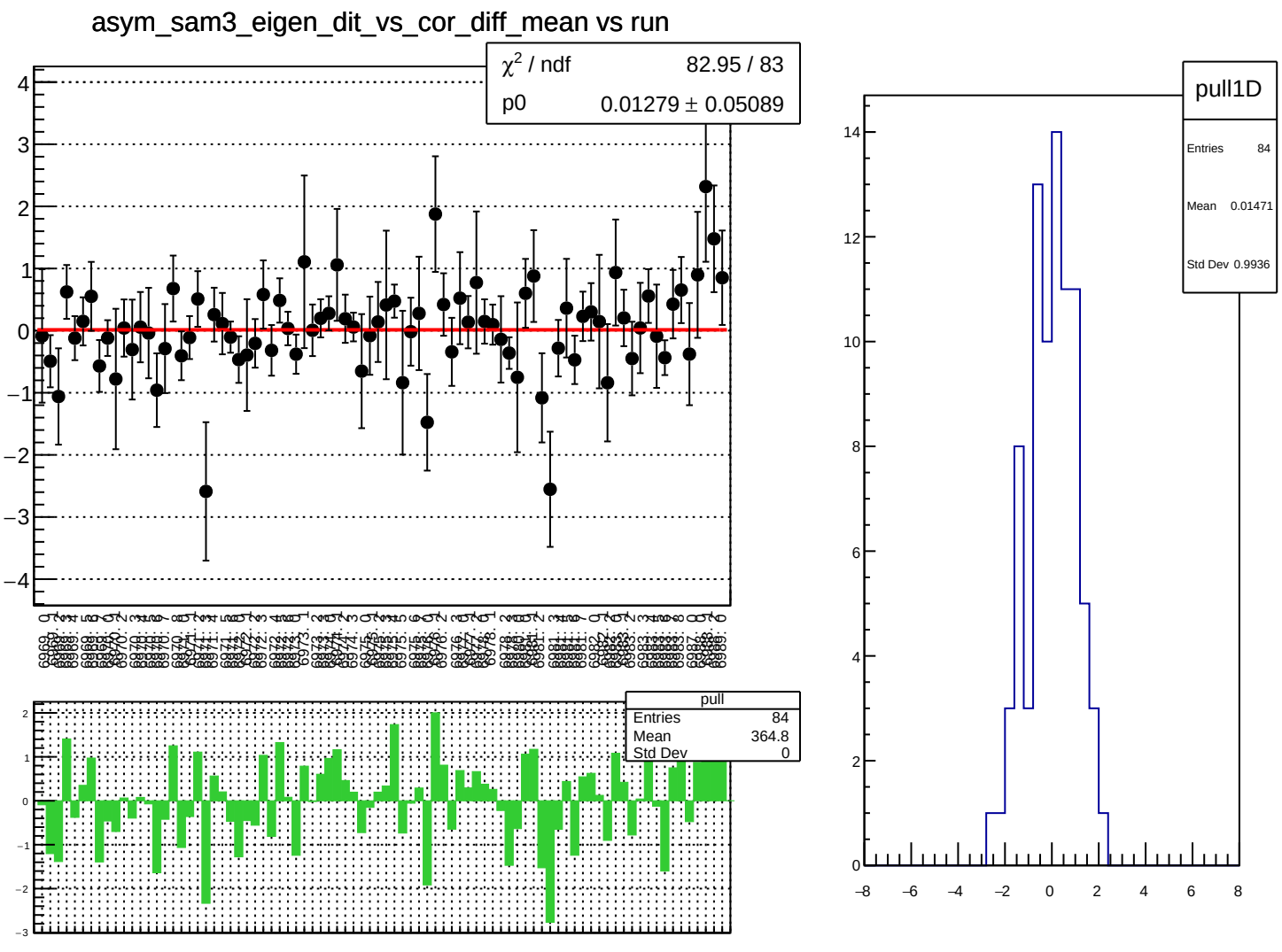

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.95 / 83
p0 0.01279 ± 0.05089
pull
Entries 84
Mean 364.8
Std Dev 0
pull1D
Entries 84
Mean 0.01471
Std Dev 0.9936

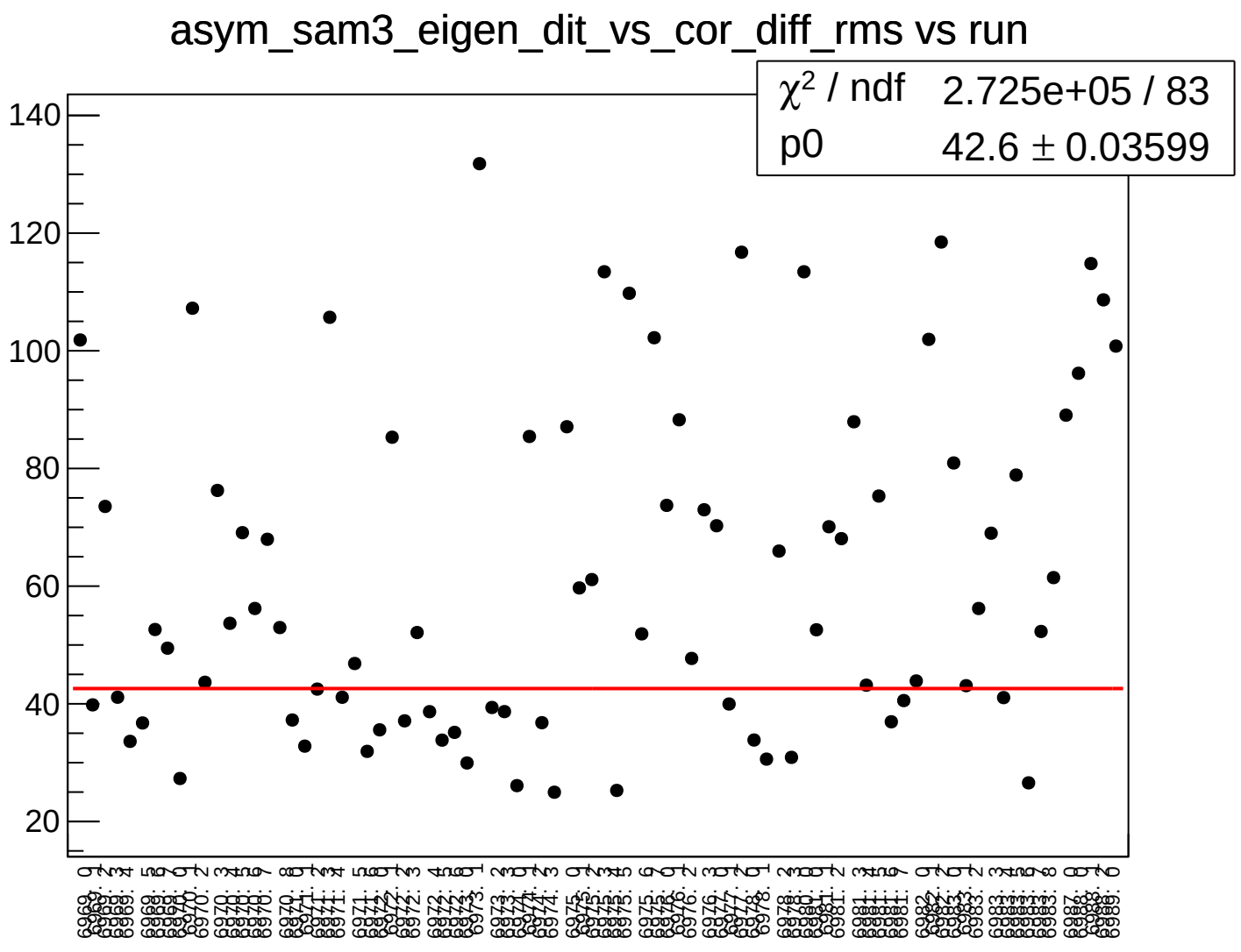

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.725e+05 / 83
p0 42.59 ± 0.03598
140
120
100
80
60
40
20

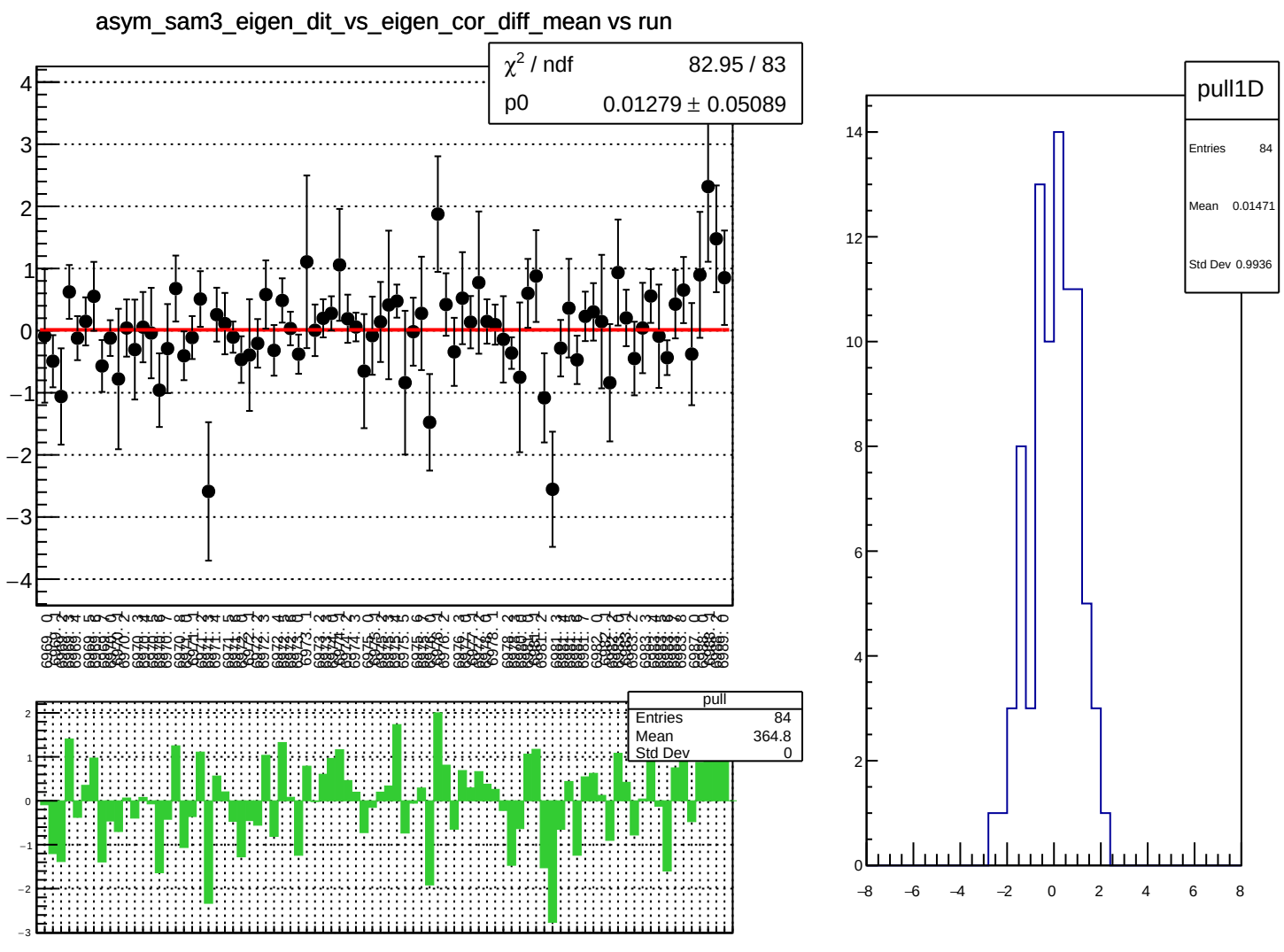

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.17 / 83
p0 9.484e−07 ± 3.732e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 649
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

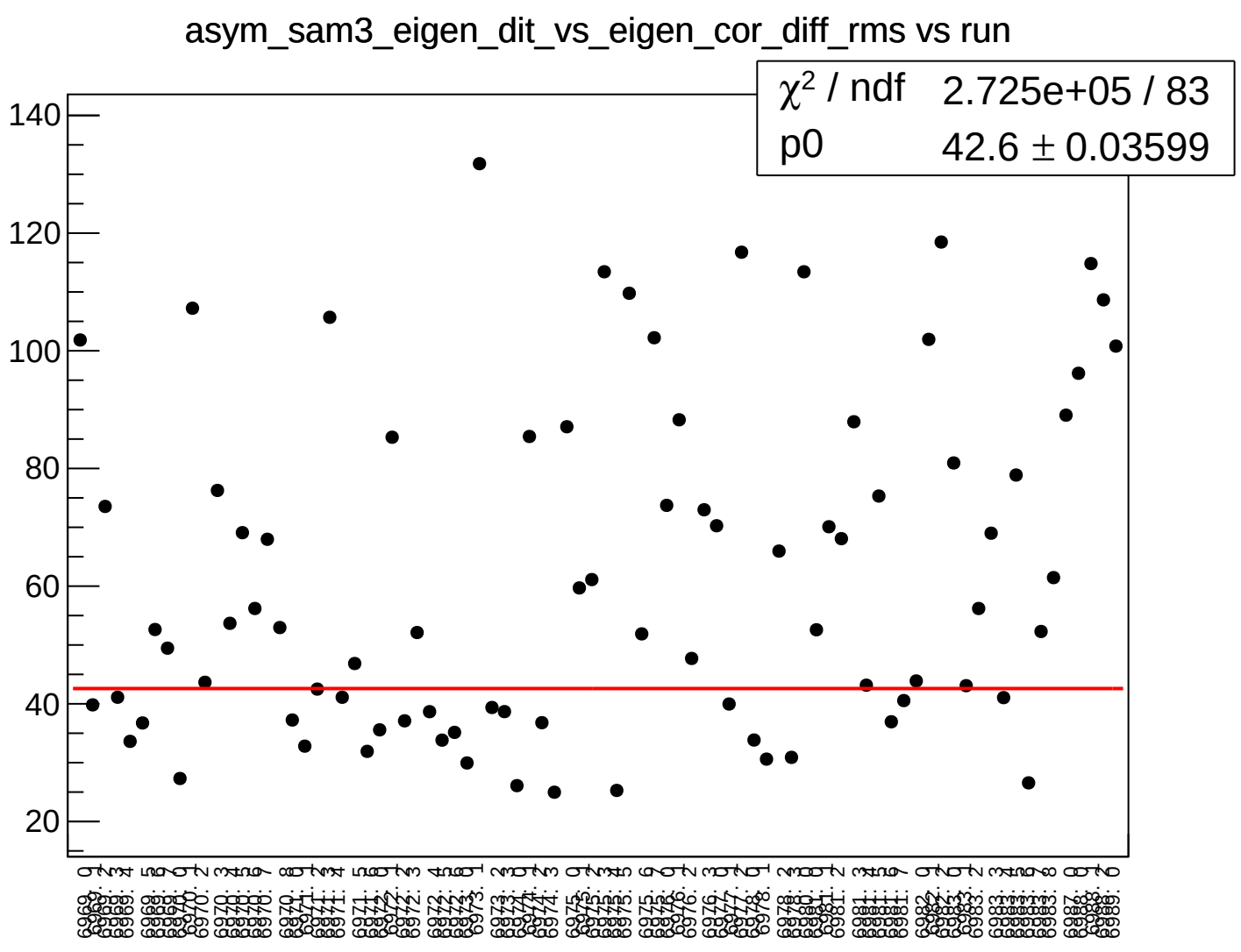

pull1D
Entries 84
Mean 0.005108
Std Dev 0.8942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

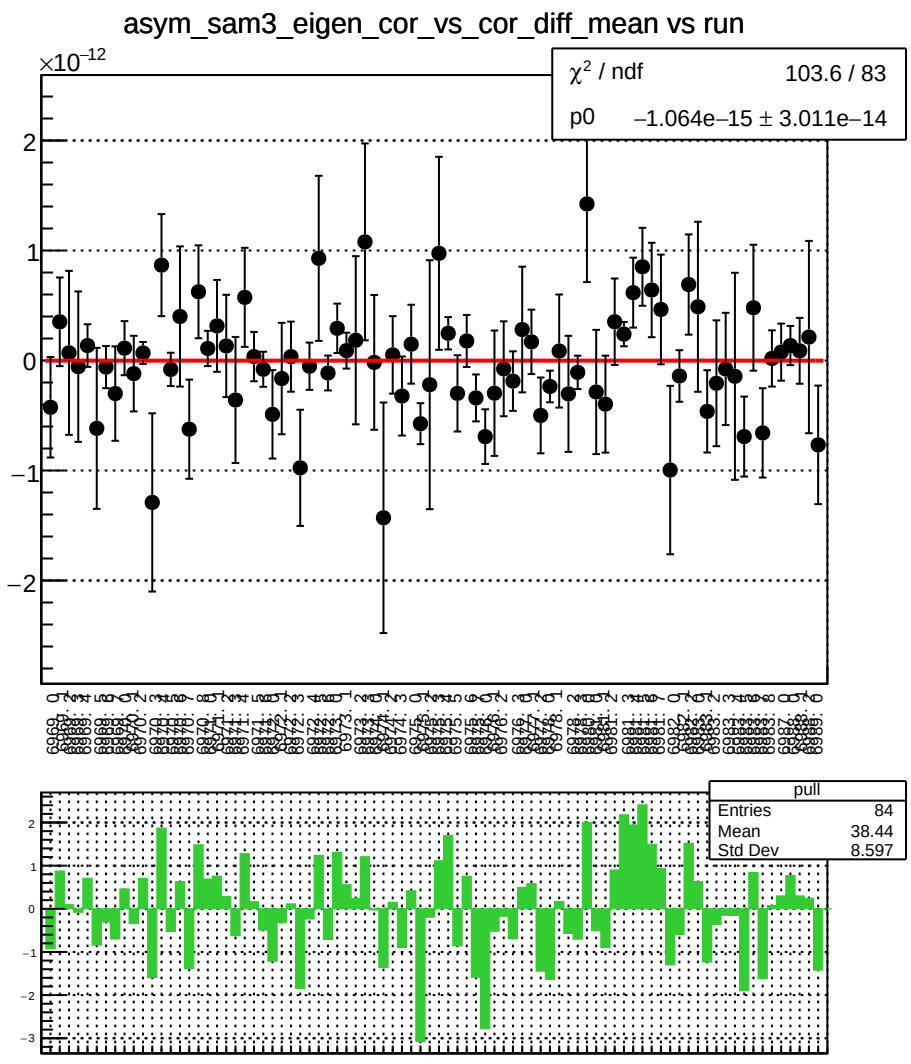

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.066e+04 / 83
p0 0.003403 ± 2.639e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

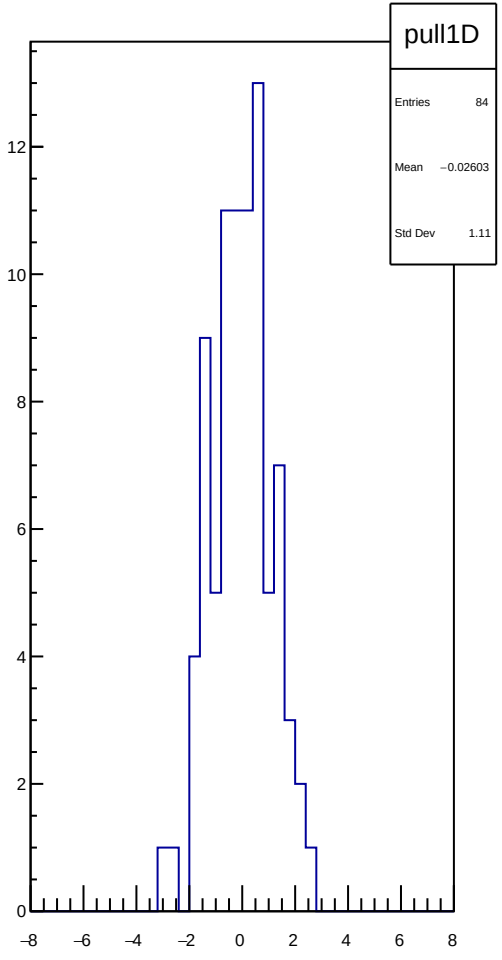

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.95 / 83
p0 0.01279 ± 0.05089
pull
Entries 84
Mean 364.8
Std Dev 0
pull1D
Entries 84
Mean 0.01471
Std Dev 0.9936

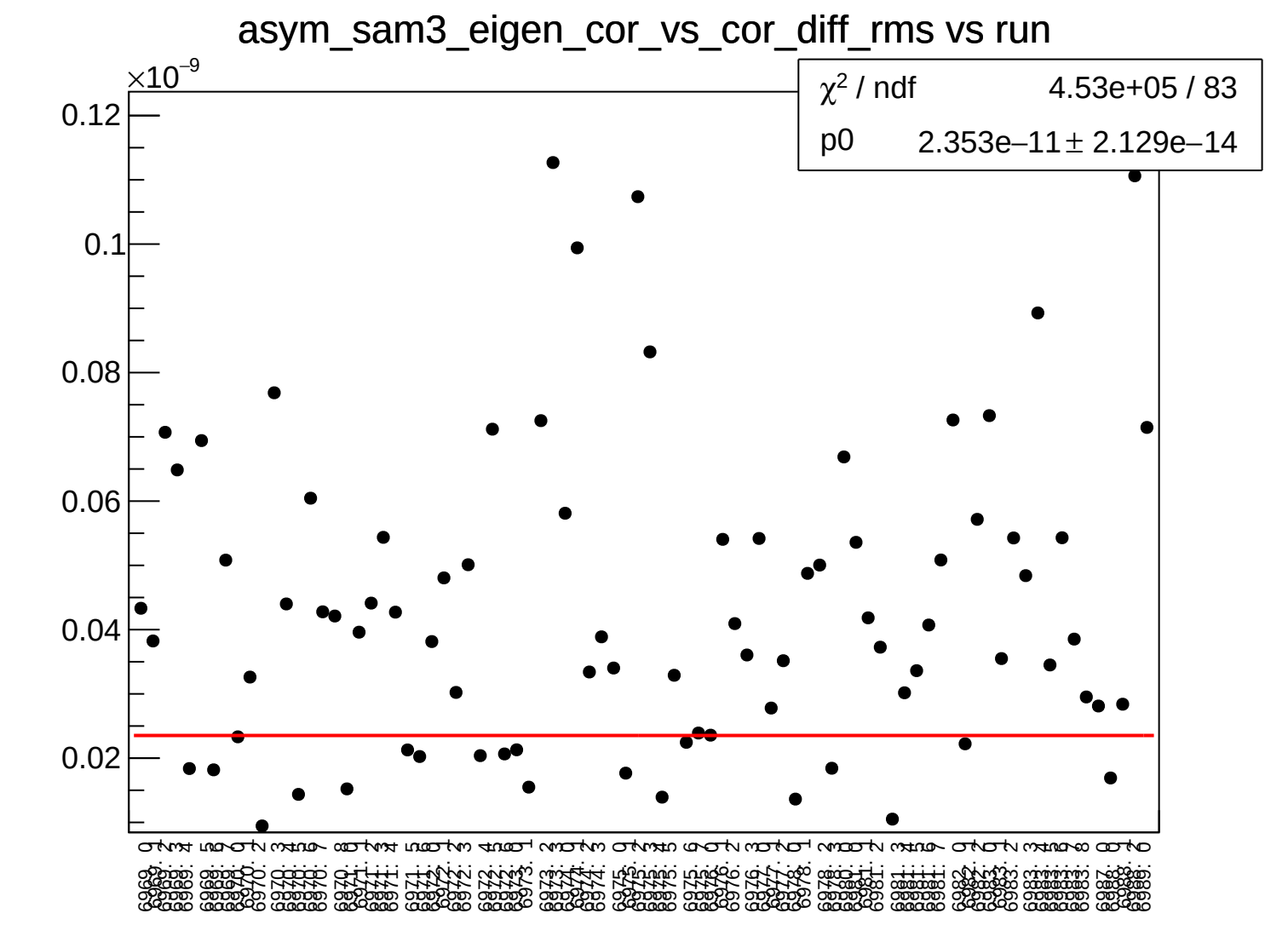

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.725e+05 / 83
p0 42.6 ± 0.03599
140
120
100
80
60
40
20

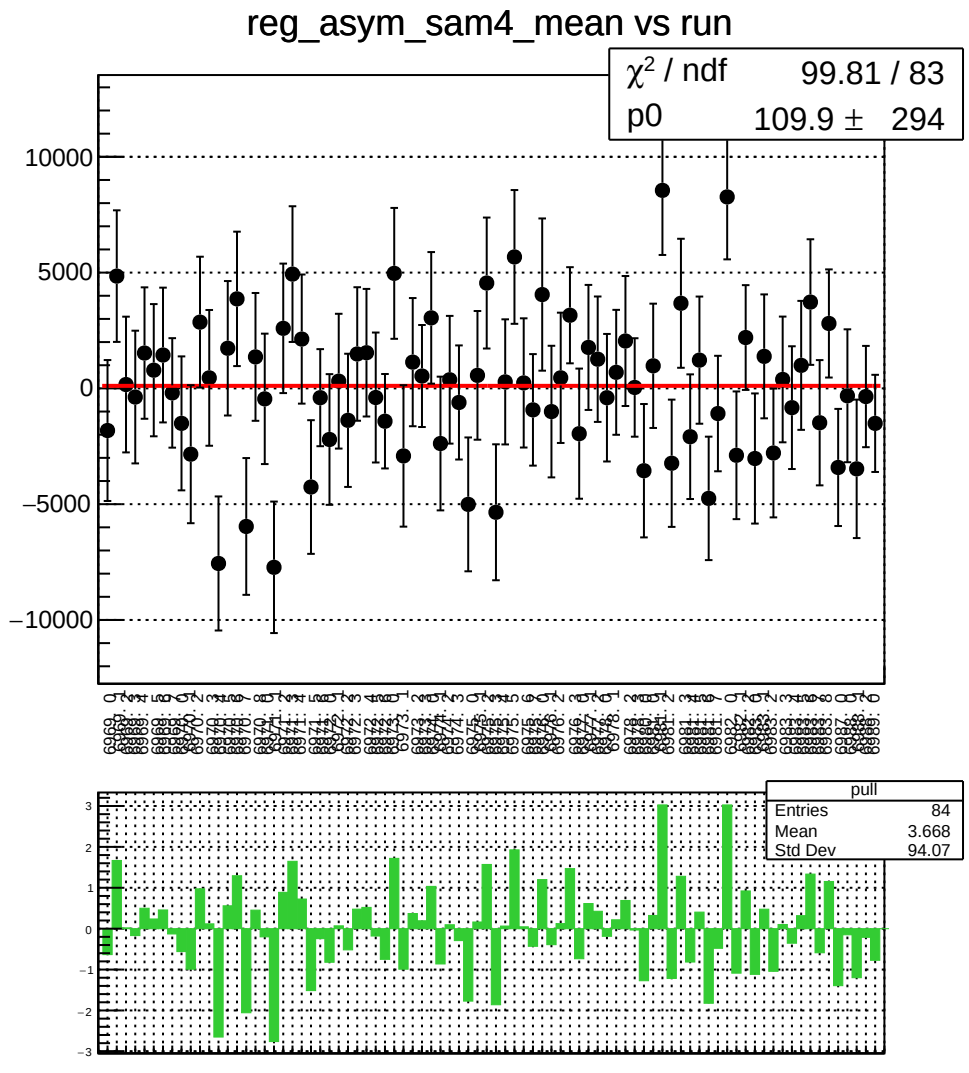

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.95 / 83
p0 0.01279 ± 0.05089
pull
Entries 84
Mean 364.8
Std Dev 0
pull1D
Entries 84
Mean 0.01471
Std Dev 0.9936

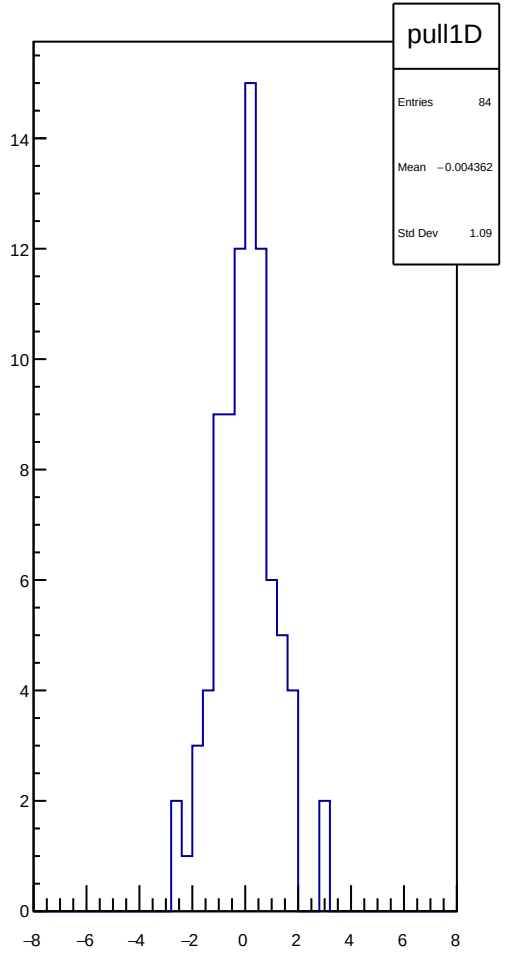

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.725e+05 / 83
p0 42.6 ± 0.03599
140
120
100
80
60
40
20

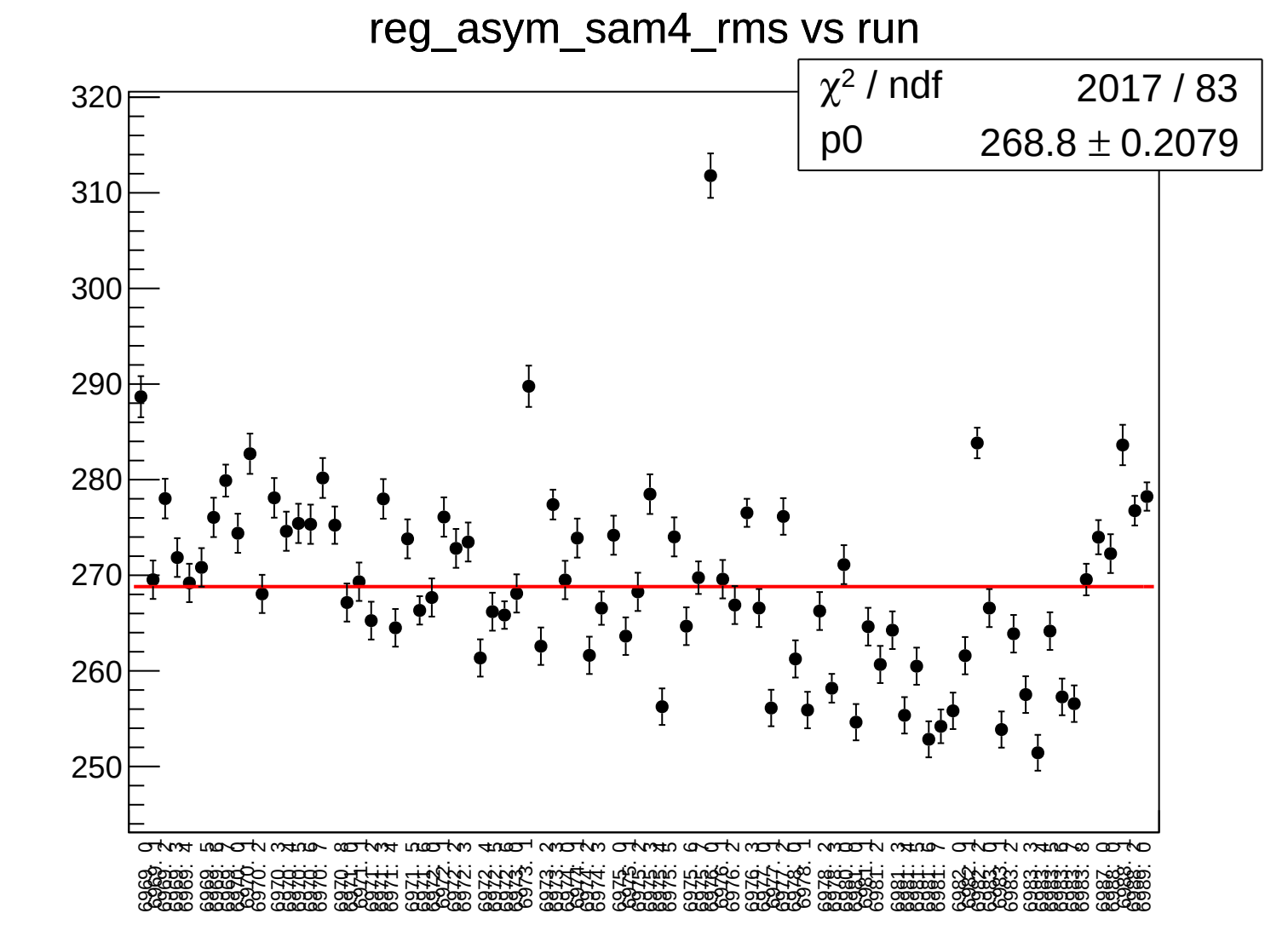

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.6 / 83
p0 −1.064e−15 ± 3.011e−14
pull
Entries 84
Mean 38.44
Std Dev 8.597

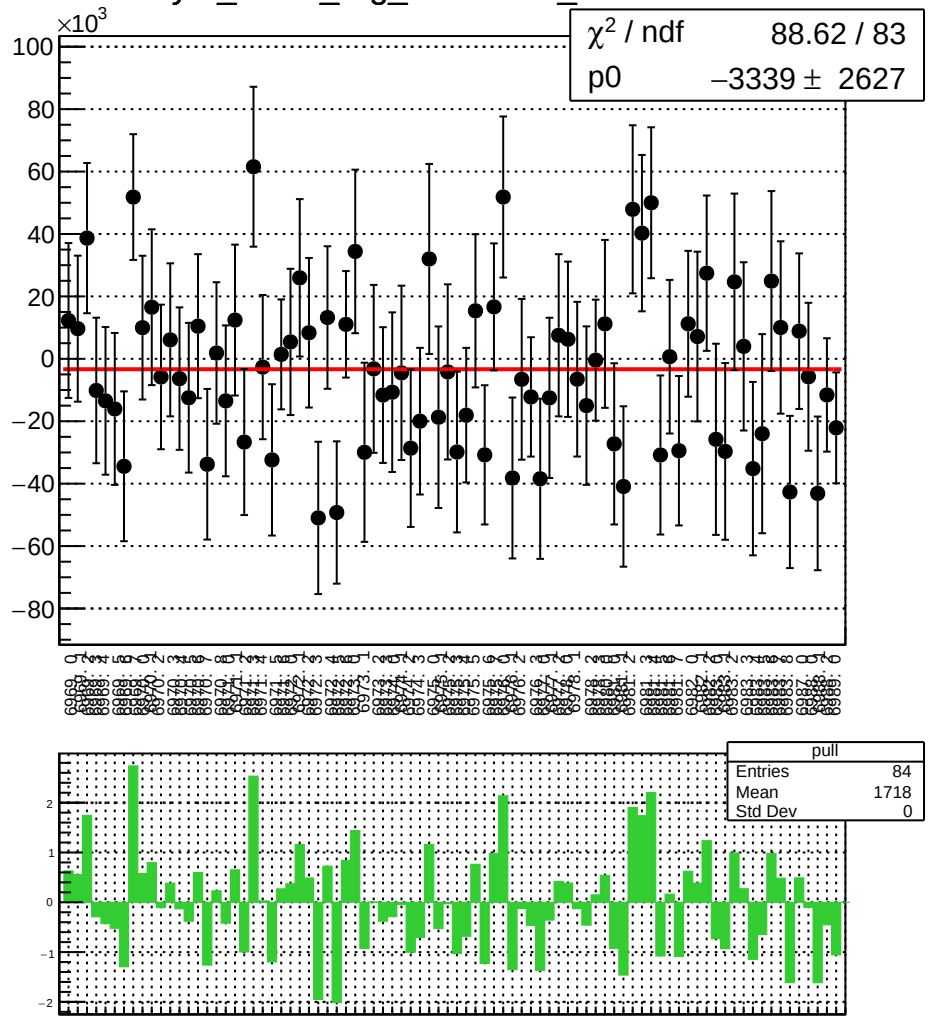

pull1D
Entries 84
Mean −0.02603
Std Dev 1.11

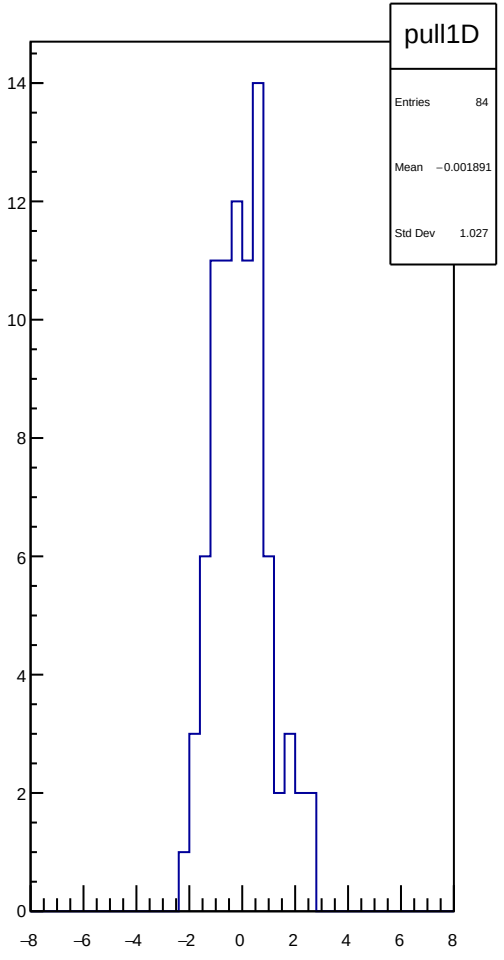

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.53e+05 / 83
p0 2.353e−11 ± 2.129e−14
0.12
0.1
0.08
0.06
0.04
0.02

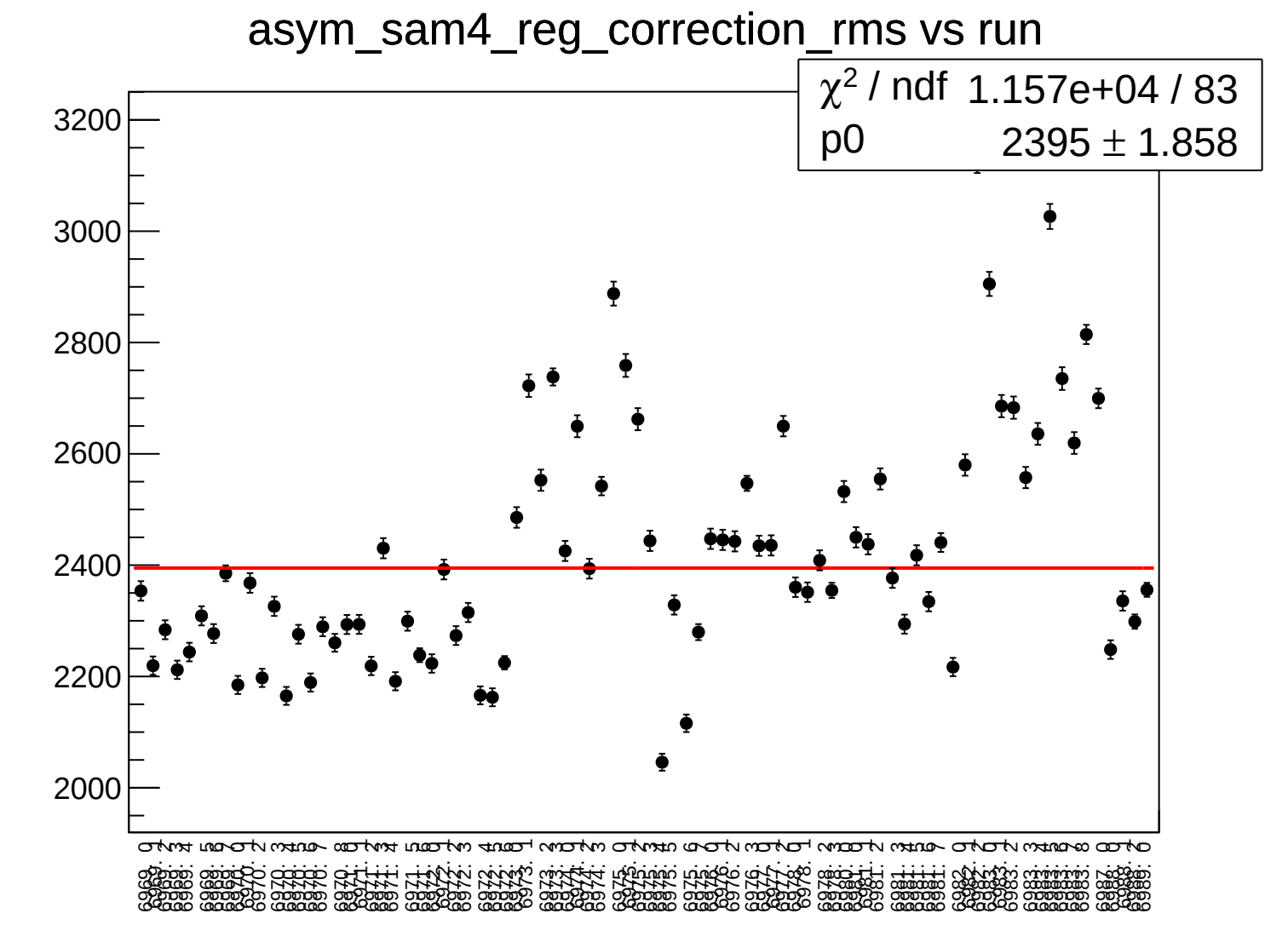

reg_asym_sam4_mean vs run
χ² / ndf 99.81 / 83
p0 109.9 ± 294
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 3.668
Std Dev 94.07
3
2
1
0
−1
−2
−3

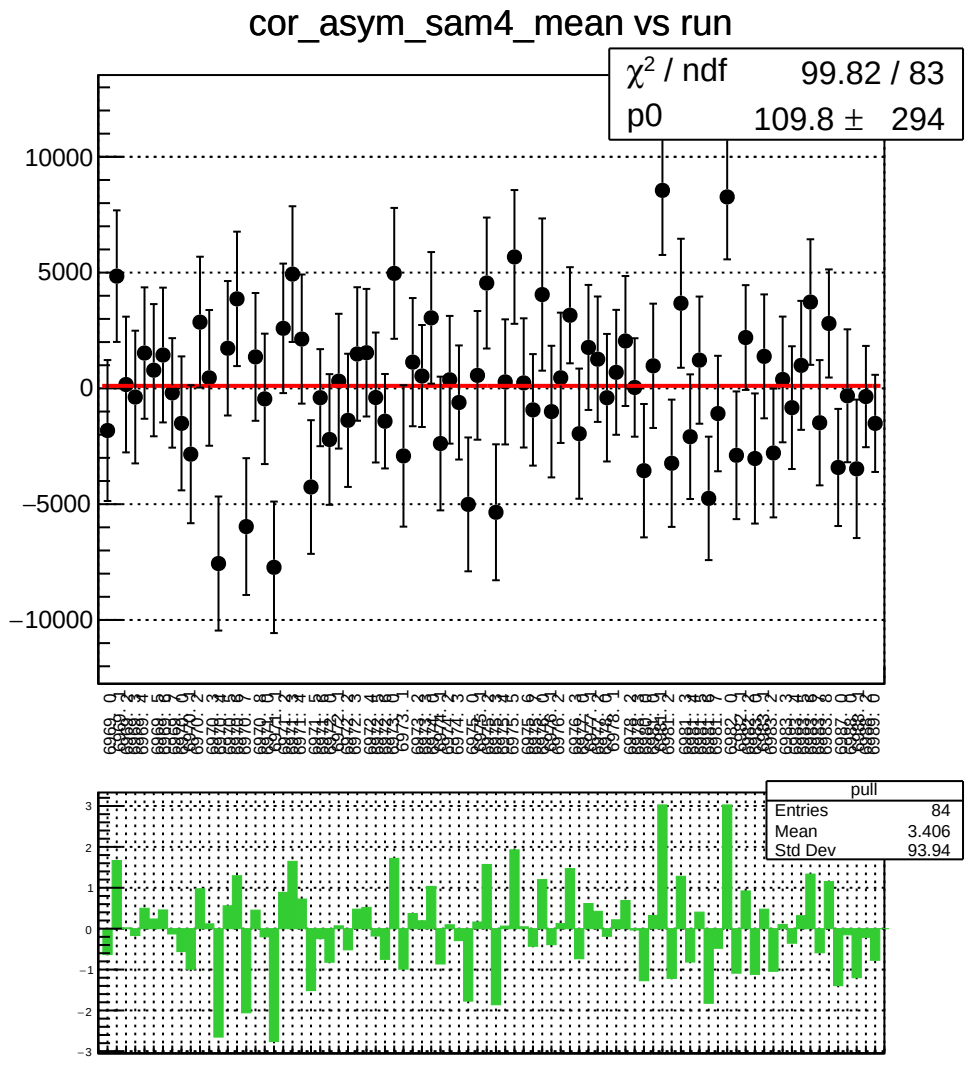

pull1D
Entries 84
Mean −0.004362
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

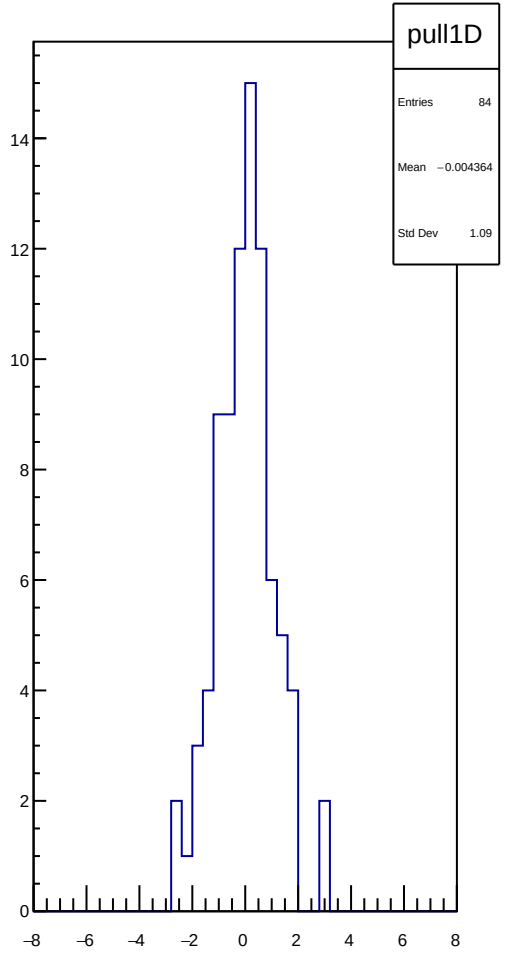

reg_asym_sam4_rms vs run
χ² / ndf 2017 / 83
p0 268.8 ± 0.2079
320
310
300
290
280
270
260
250

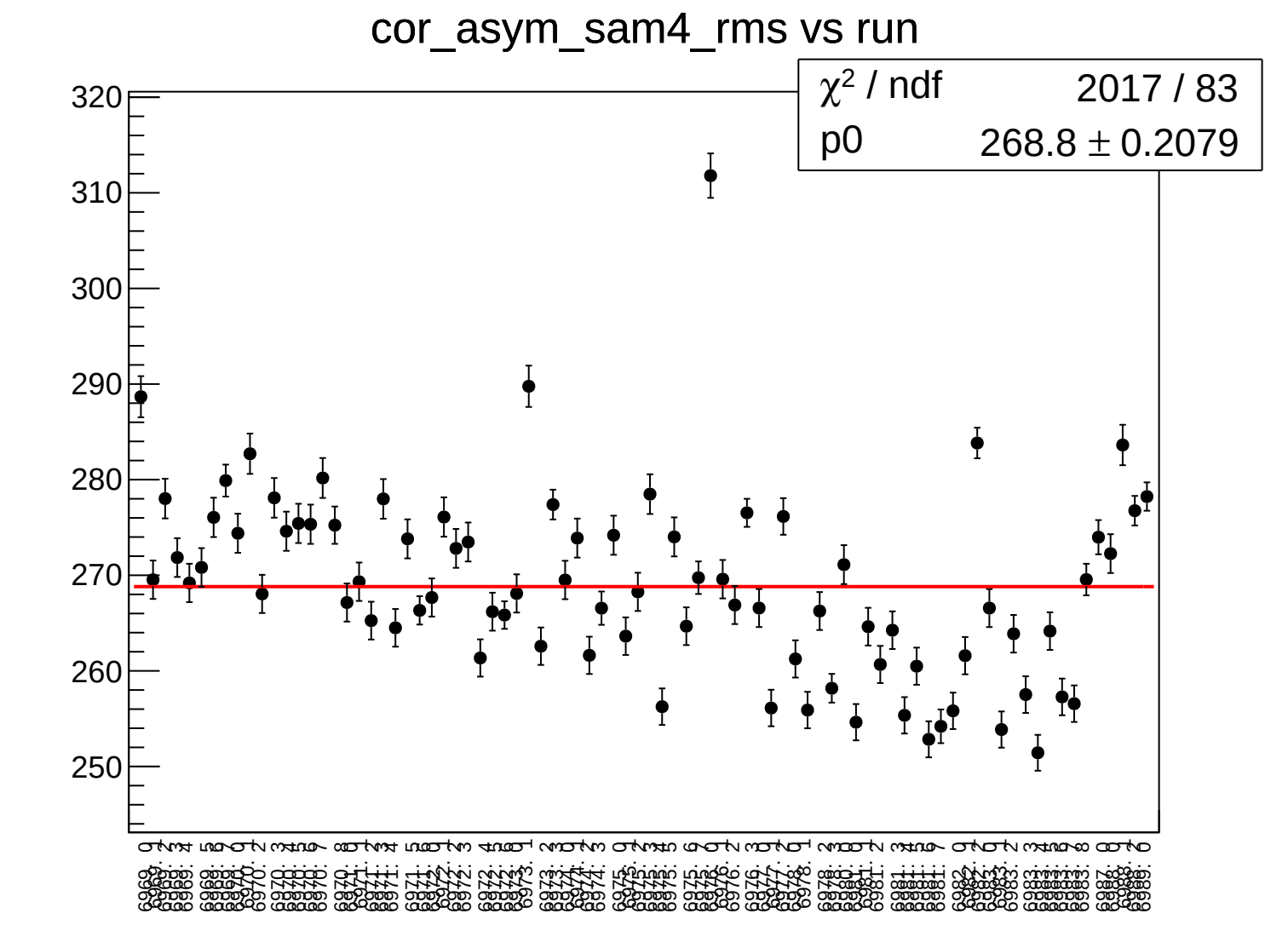

asym_sam4_reg_correction_mean vs run
×10^3
χ^2 / ndf 88.62 / 83
p0 −3339 ± 2627
pull
Entries 84
Mean 1718
Std Dev 0

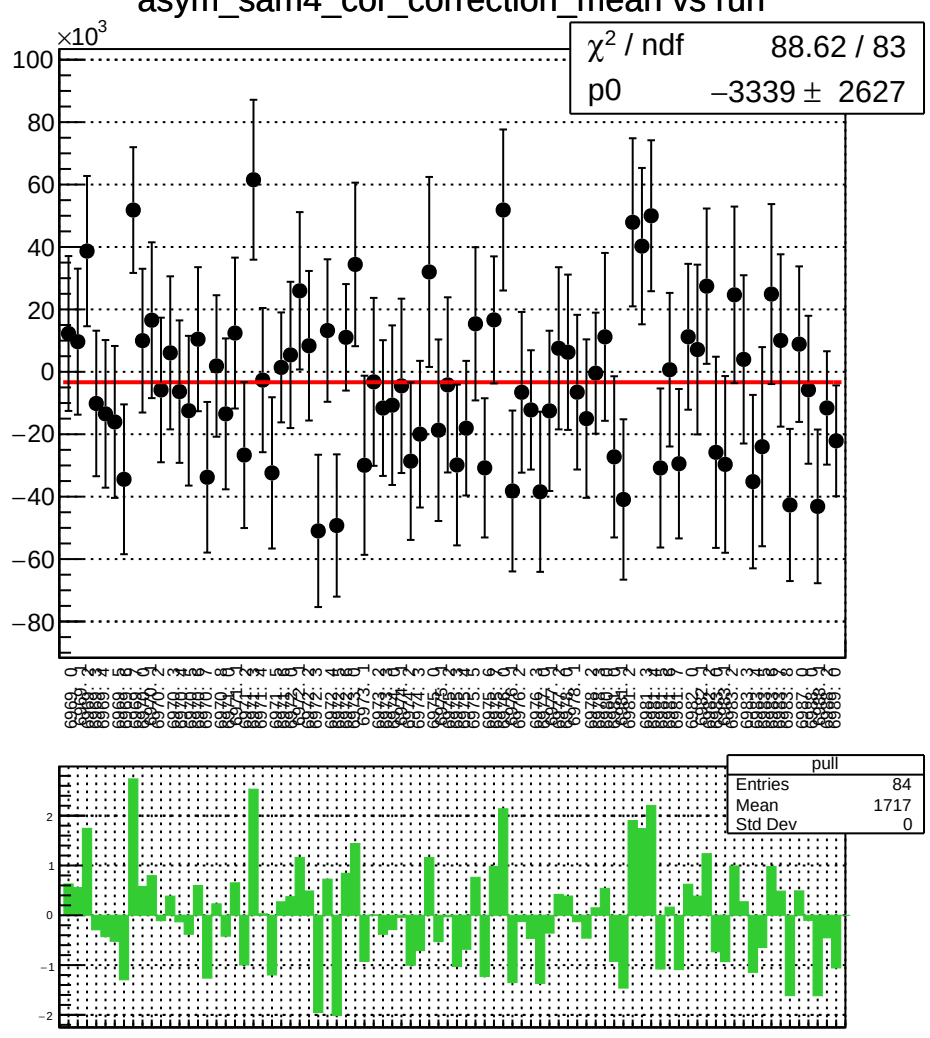

pull1D
Entries 84
Mean −0.001891
Std Dev 1.027

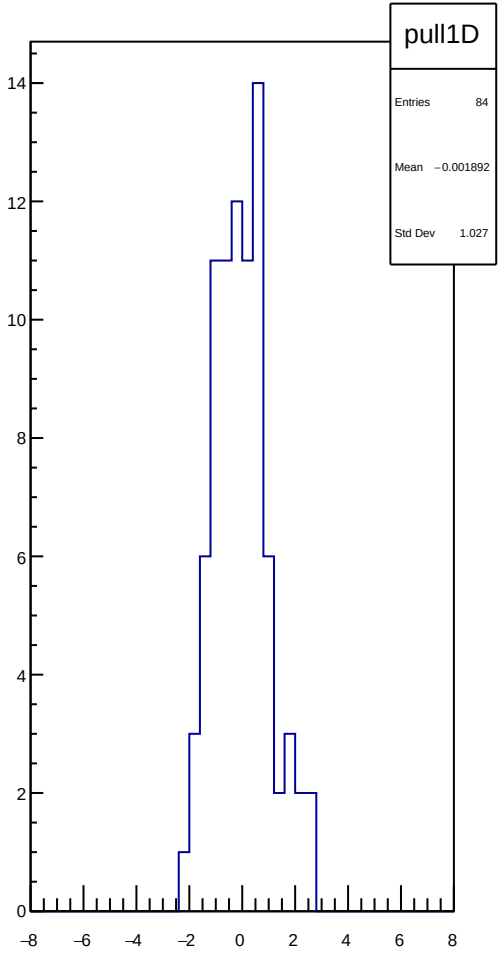

asym_sam4_reg_correction_rms vs run
χ² / ndf 1.157e+04 / 83
p0 2395 ± 1.858
3200
3000
2800
2600
2400
2200
2000

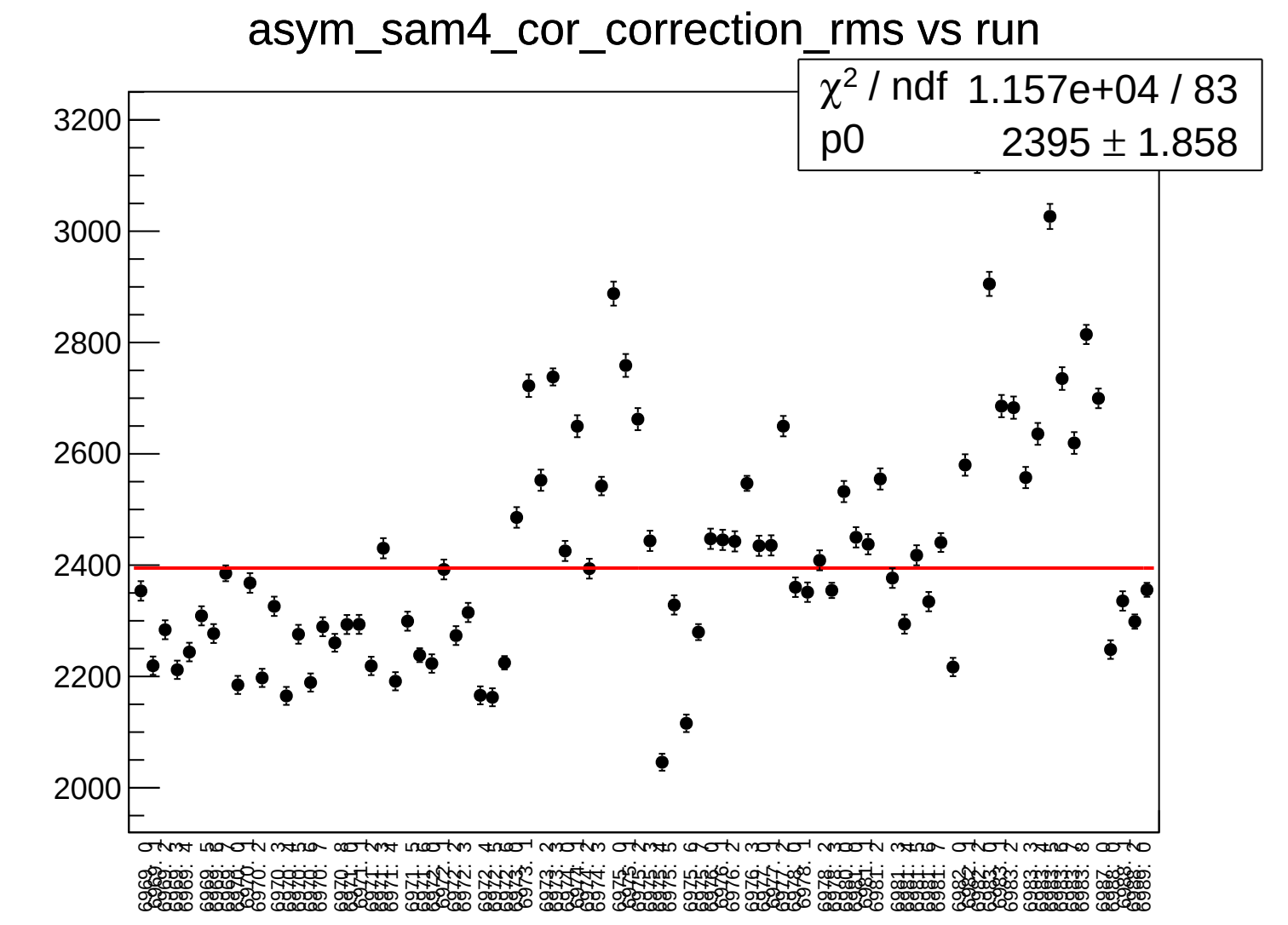

cor_asym_sam4_mean vs run
χ² / ndf 99.82 / 83
p0 109.8 ± 294
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 3.406
Std Dev 93.94
3
2
1
0
−1
−2
−3

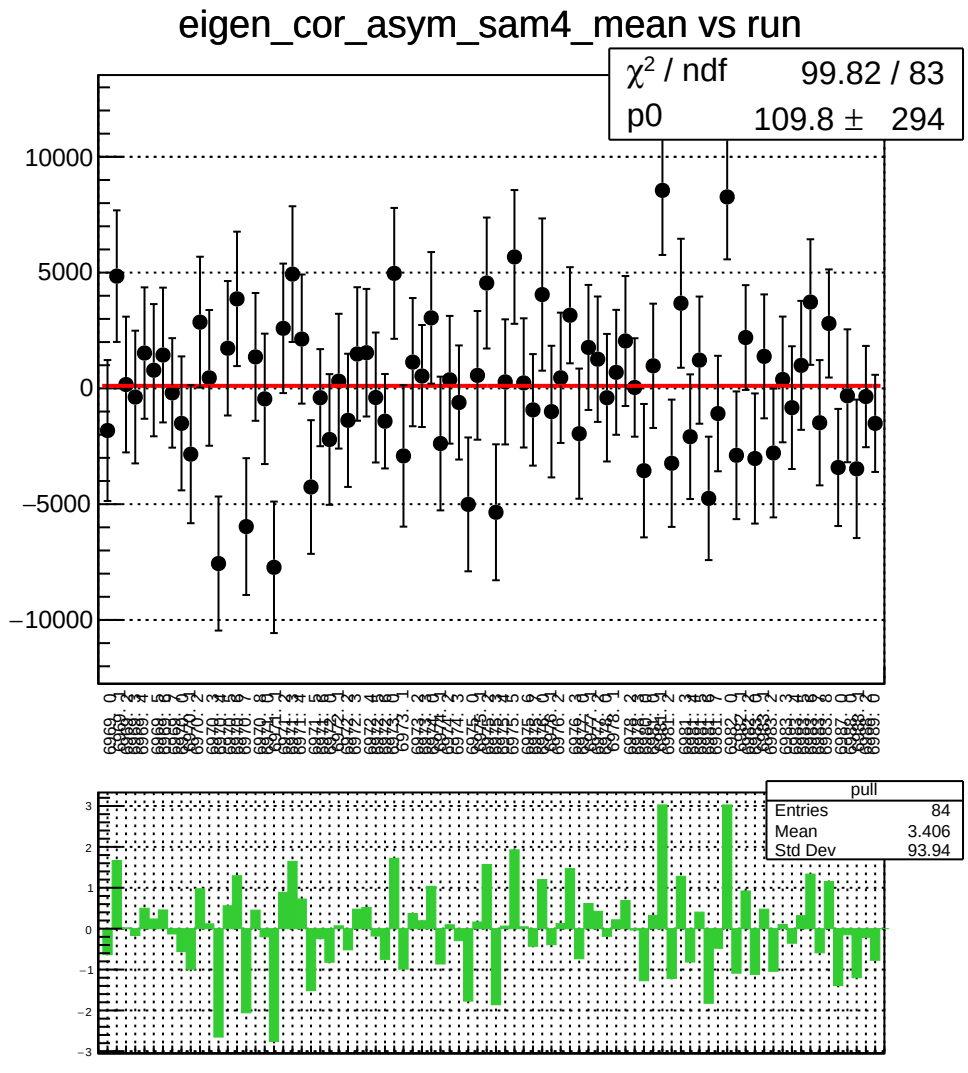

pull1D
Entries 84
Mean −0.004364
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

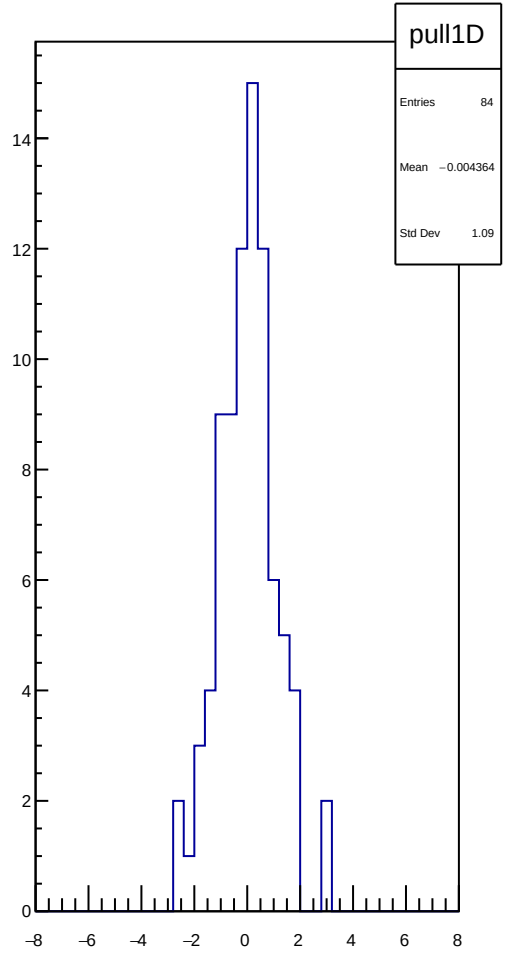

cor_asym_sam4_rms vs run
χ² / ndf 2017 / 83
p0 268.8 ± 0.2079
320
310
300
290
280
270
260
250

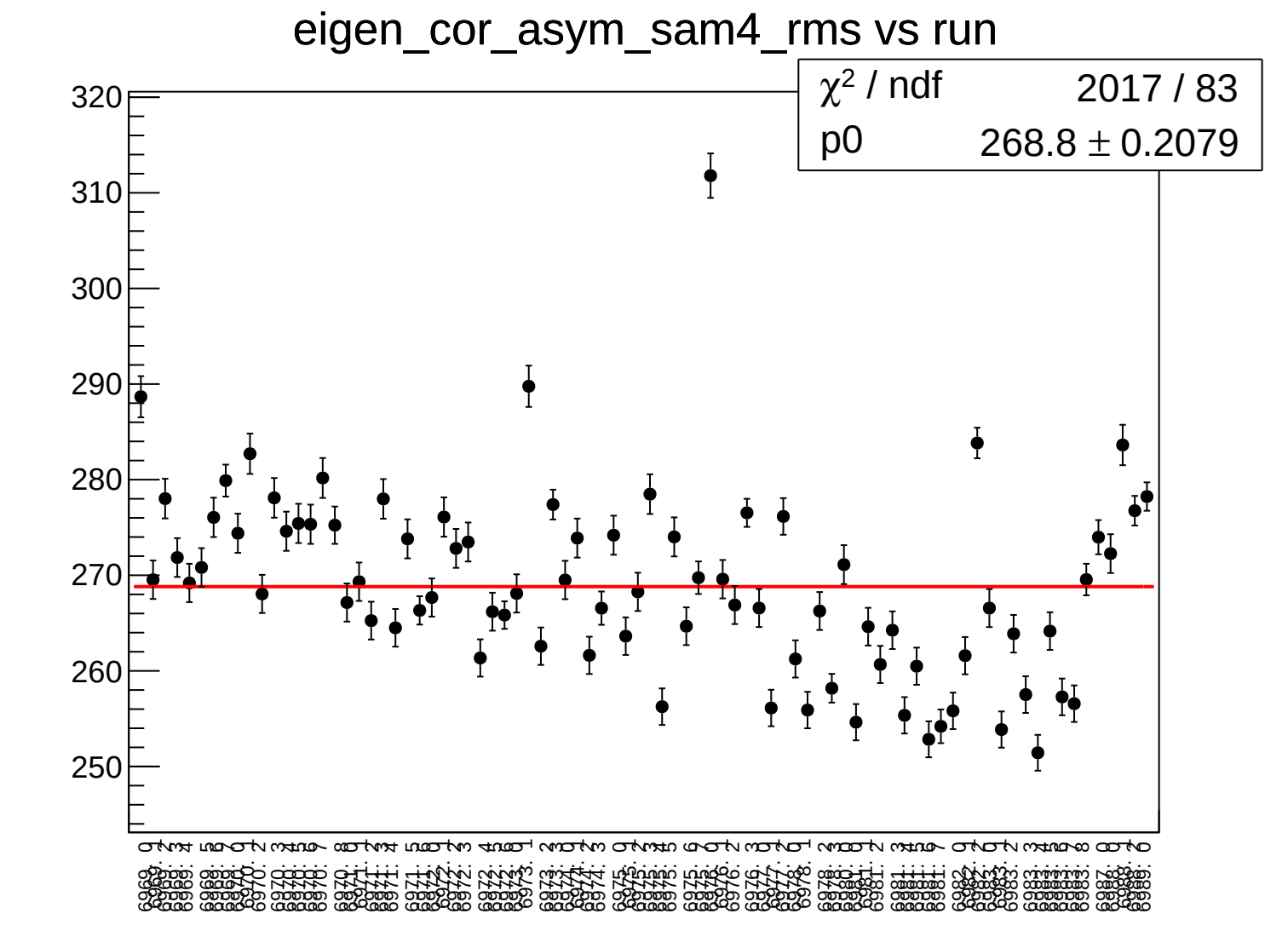

asym_sam4_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.62 / 83
p0 −3339 ± 2627
pull
Entries 84
Mean 1717
Std Dev 0

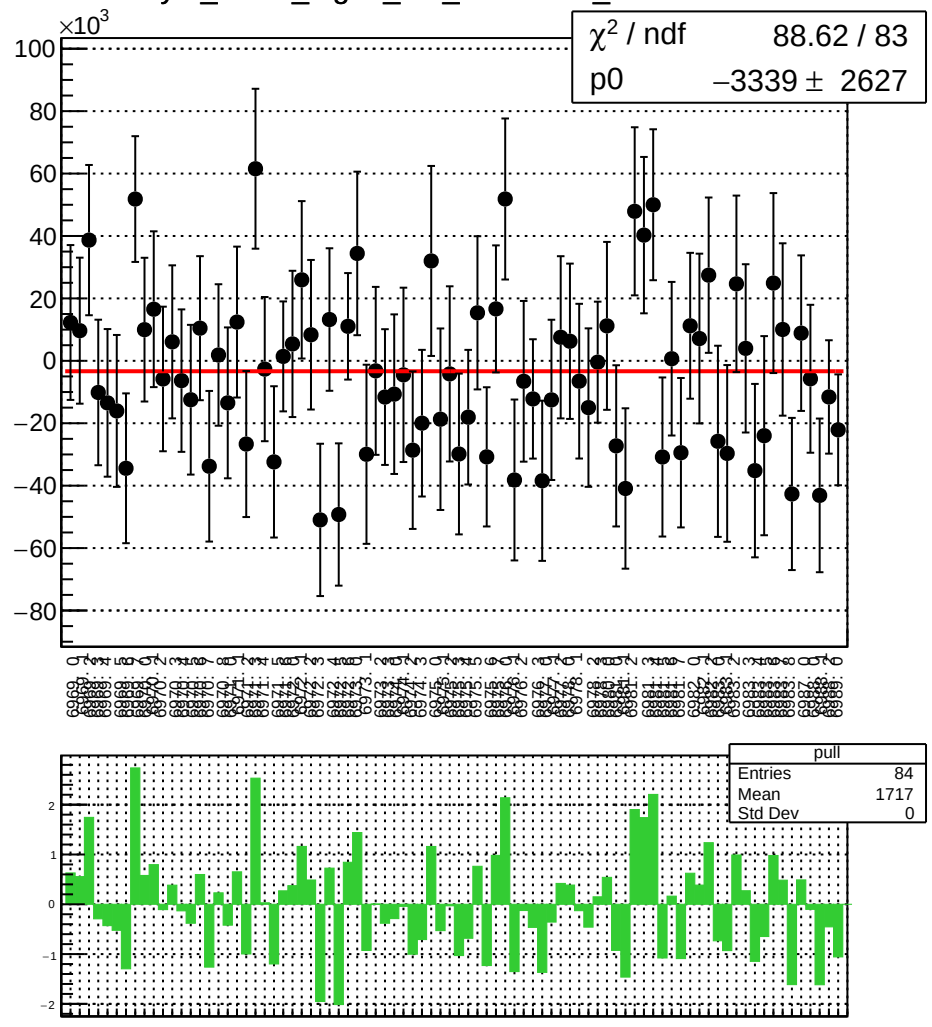

pull1D
Entries 84
Mean −0.001892
Std Dev 1.027

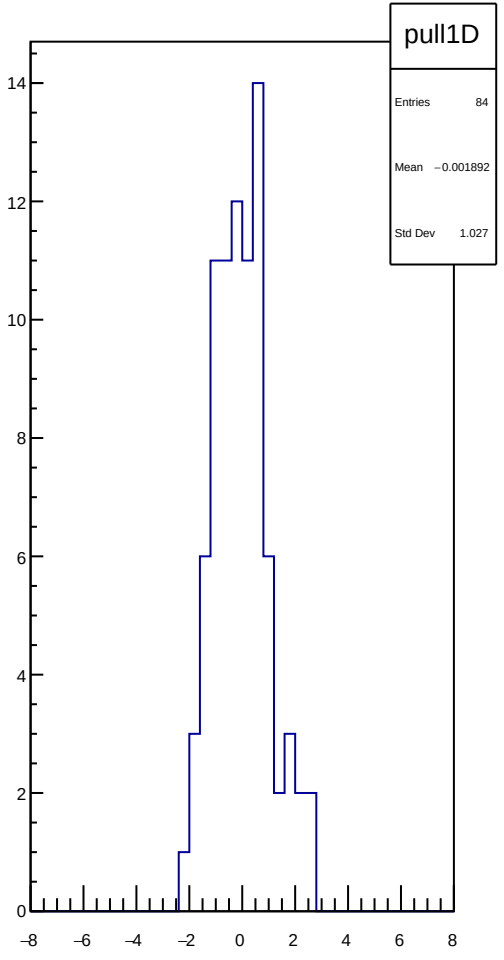

asym_sam4_cor_correction_rms vs run
χ² / ndf 1.157e+04 / 83
p0 2395 ± 1.858
3200
3000
2800
2600
2400
2200
2000

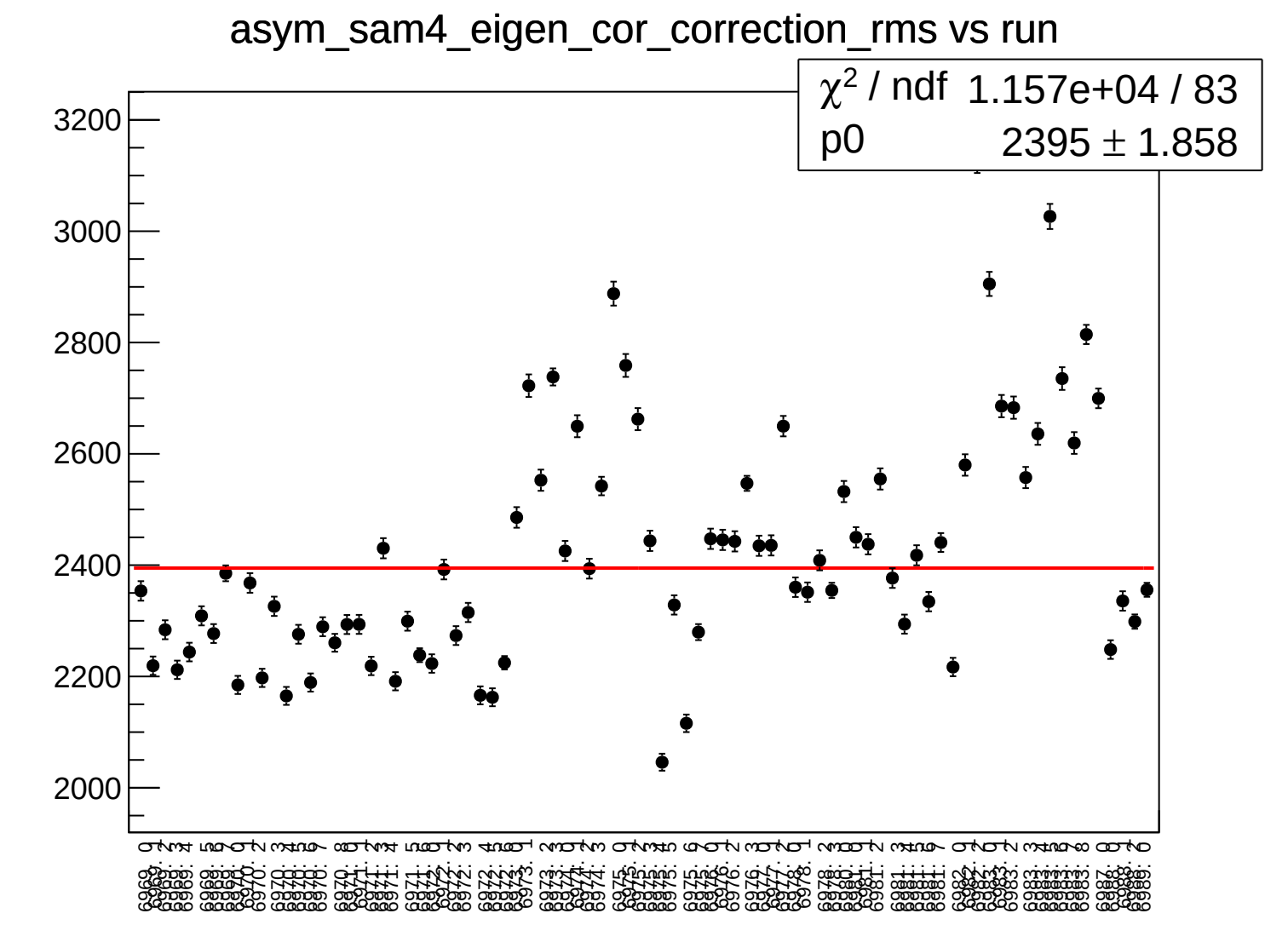

eigen_cor_asym_sam4_mean vs run
χ² / ndf 99.82 / 83
p0 109.8 ± 294
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 3.406
Std Dev 93.94
3
2
1
0
−1
−2
−3

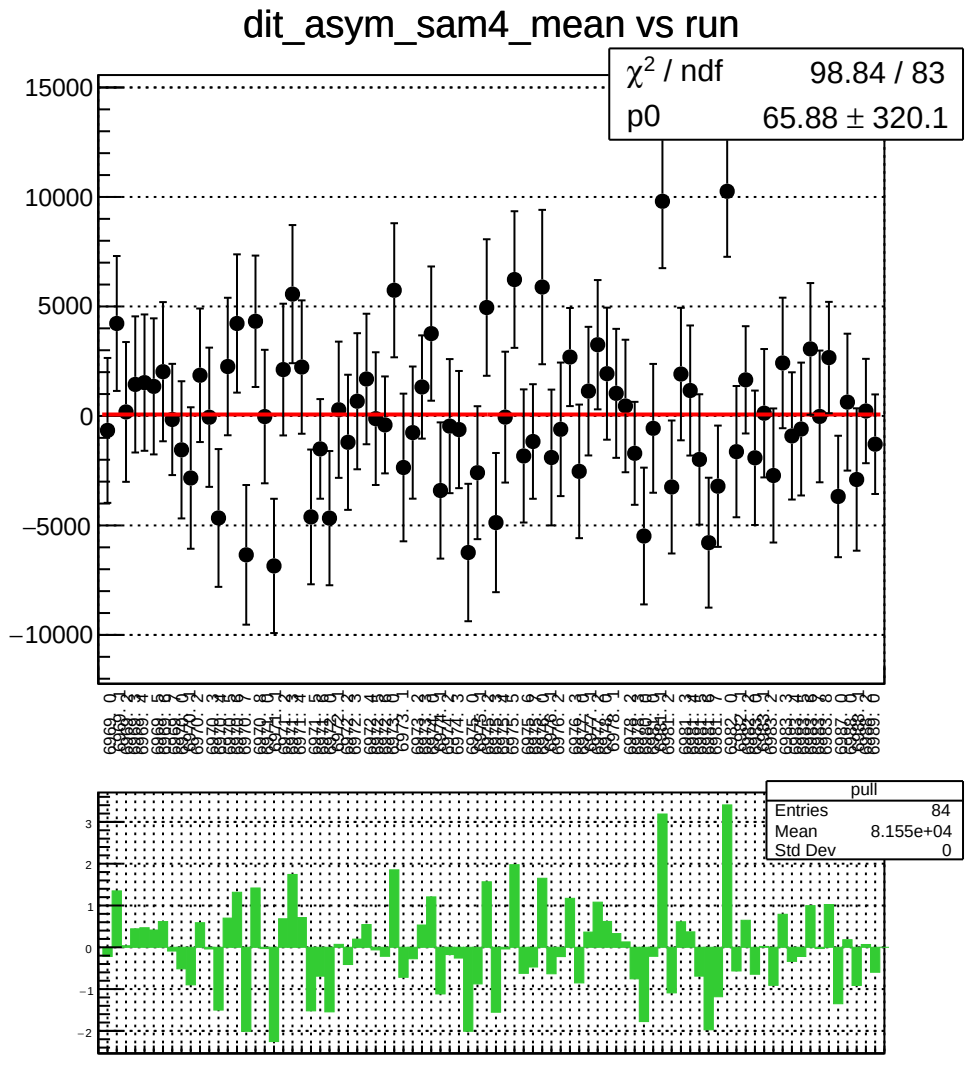

pull1D
Entries 84
Mean −0.004364
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

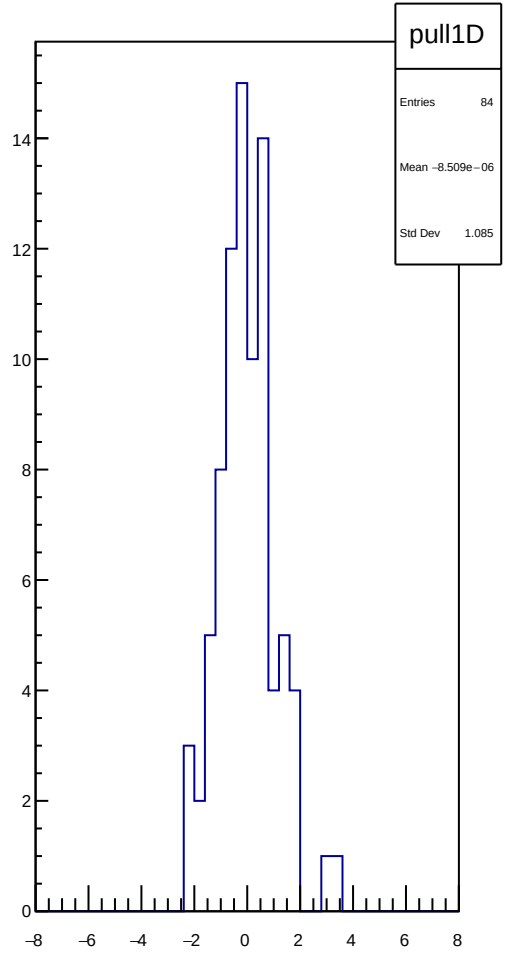

eigen_cor_asym_sam4_rms vs run
χ² / ndf 2017 / 83
p0 268.8 ± 0.2079
320
310
300
290
280
270
260
250

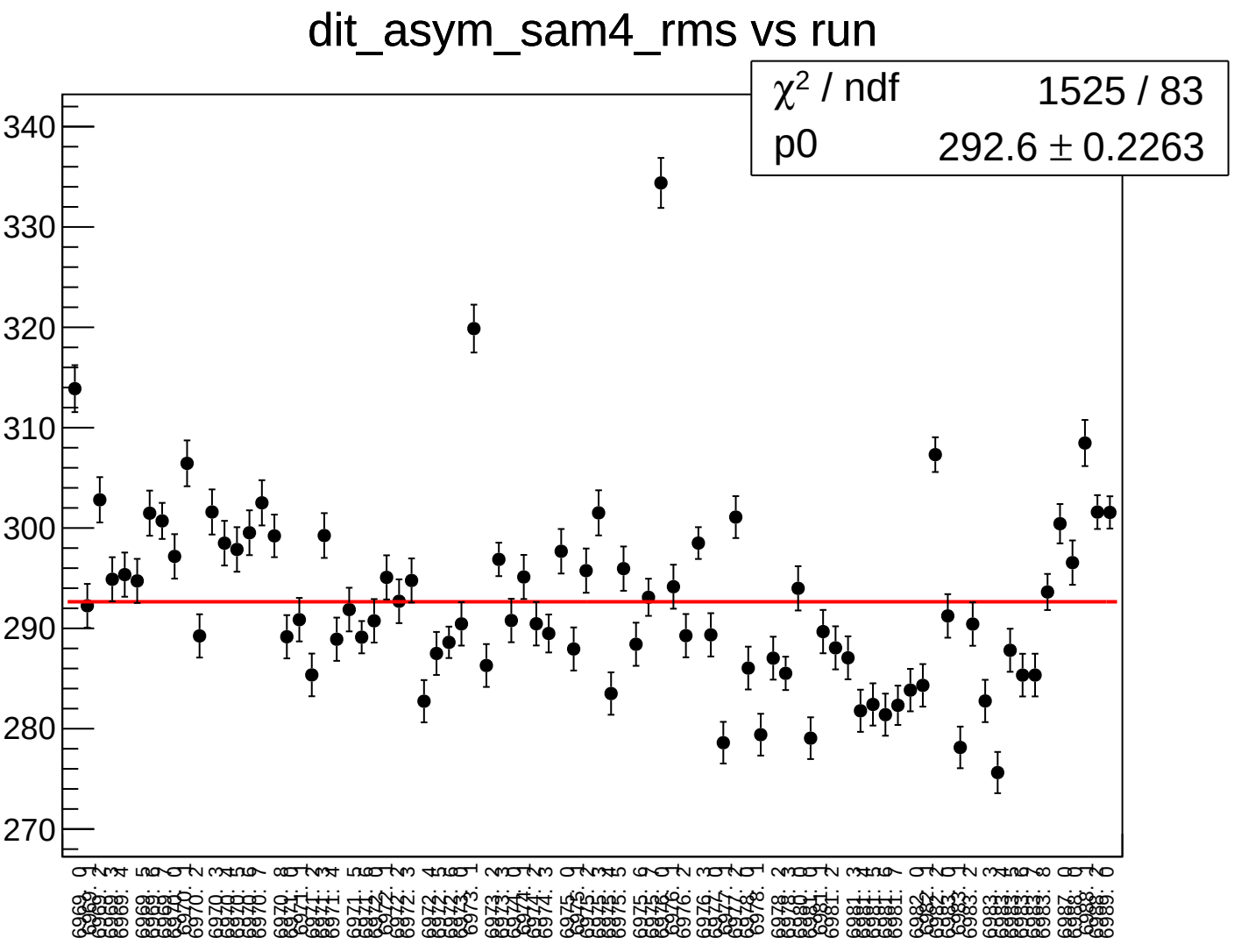

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.62 / 83
p0 −3339 ± 2627
pull
Entries 84
Mean 1717
Std Dev 0

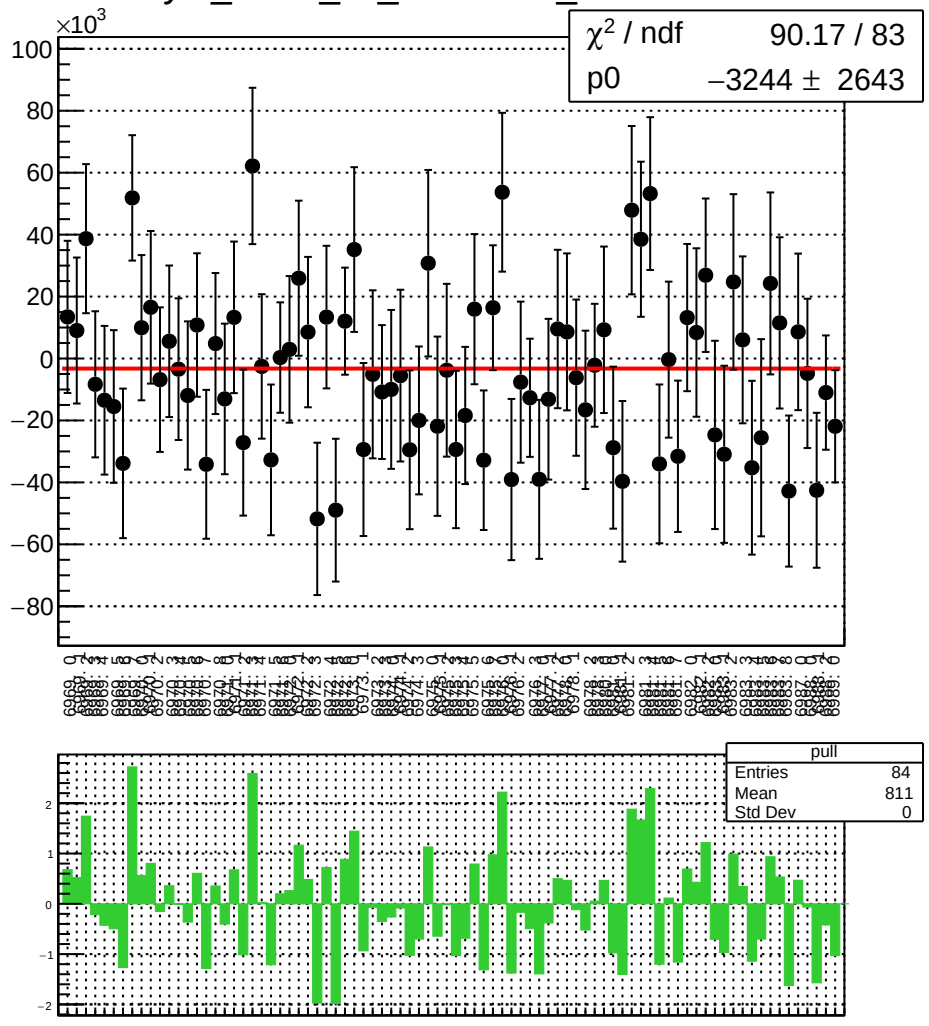

pull1D
Entries 84
Mean −0.001892
Std Dev 1.027

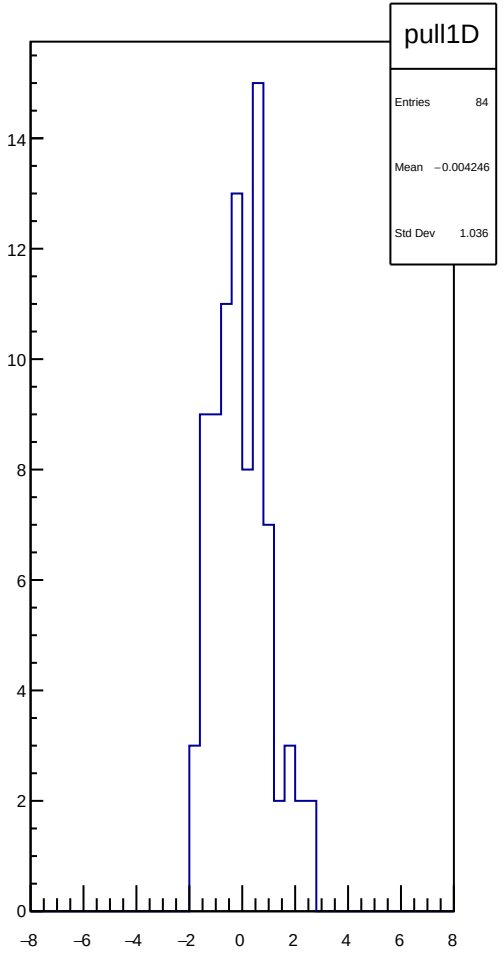

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 1.157e+04 / 83
p0 2395 ± 1.858
3200
3000
2800
2600
2400
2200
2000

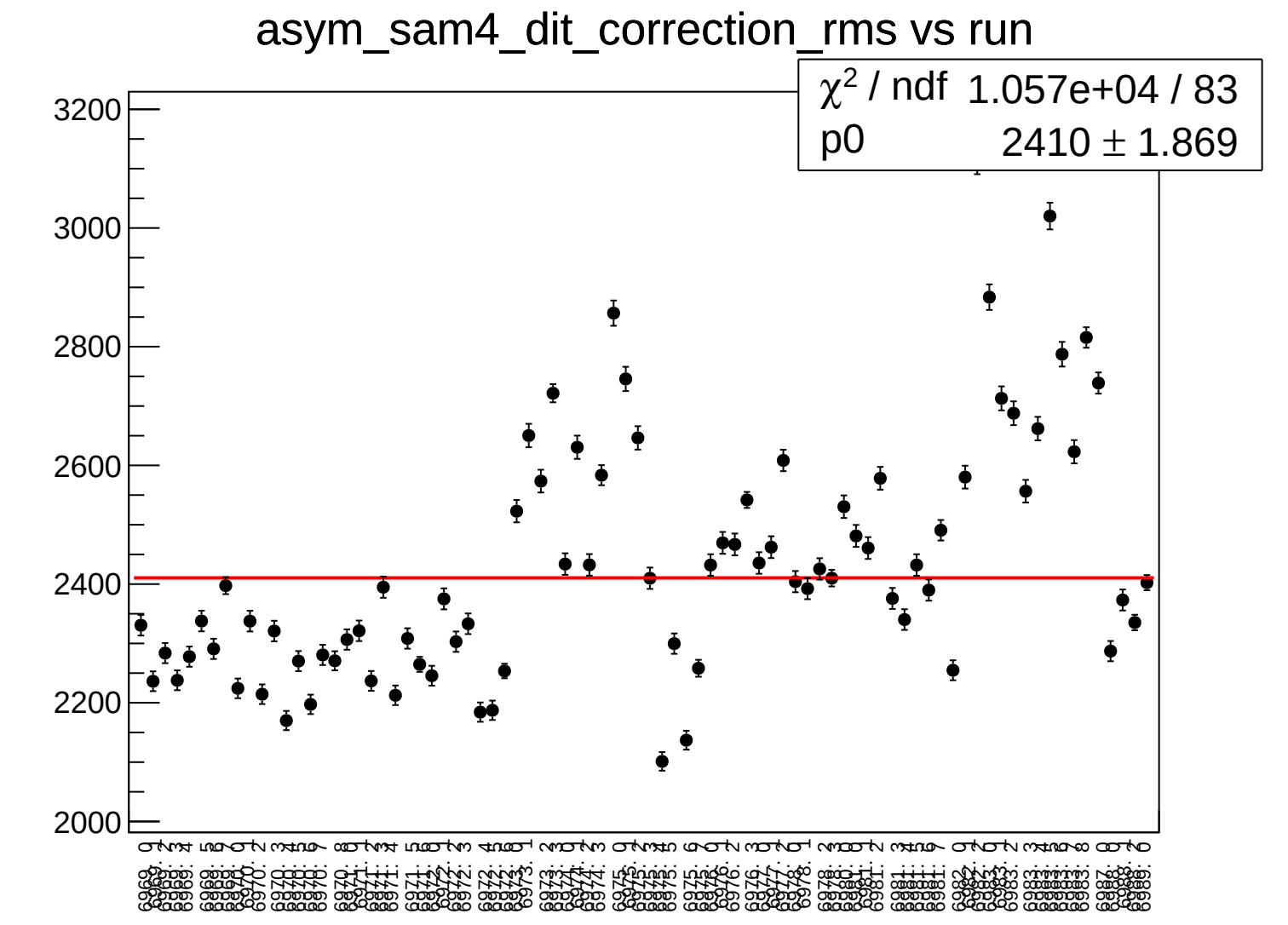

dit_asym_sam4_mean vs run
χ² / ndf 98.84 / 83
p0 65.88 ± 320.1
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 8.155e+04
Std Dev 0
3
2
1
0
−1
−2

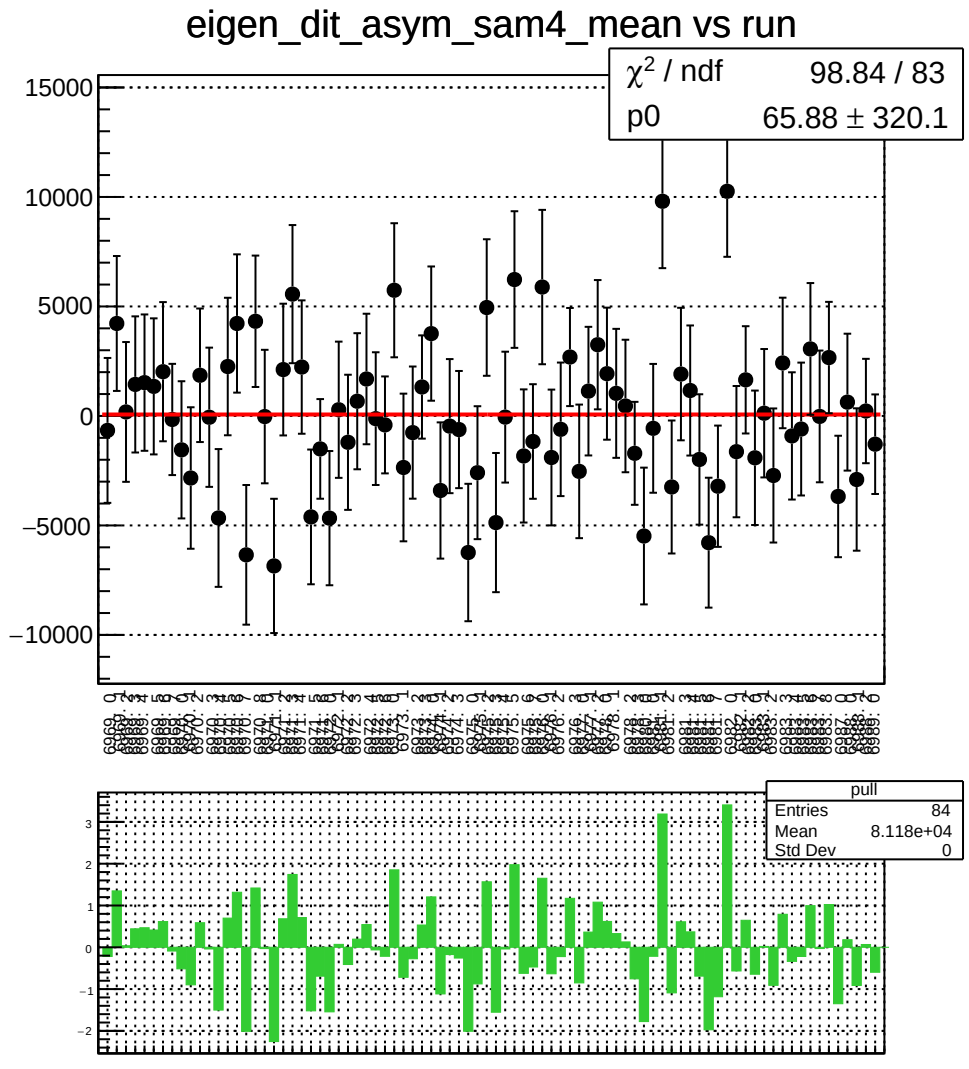

pull1D
Entries 84
Mean −8.509e−06
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

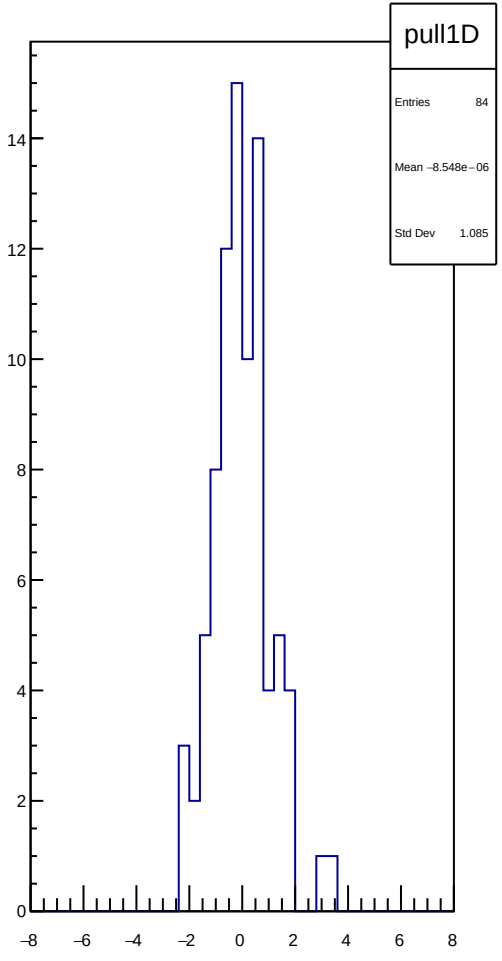

dit_asym_sam4_rms vs run
χ² / ndf 1525 / 83
p0 292.6 ± 0.2263
340
330
320
310
300
290
280
270

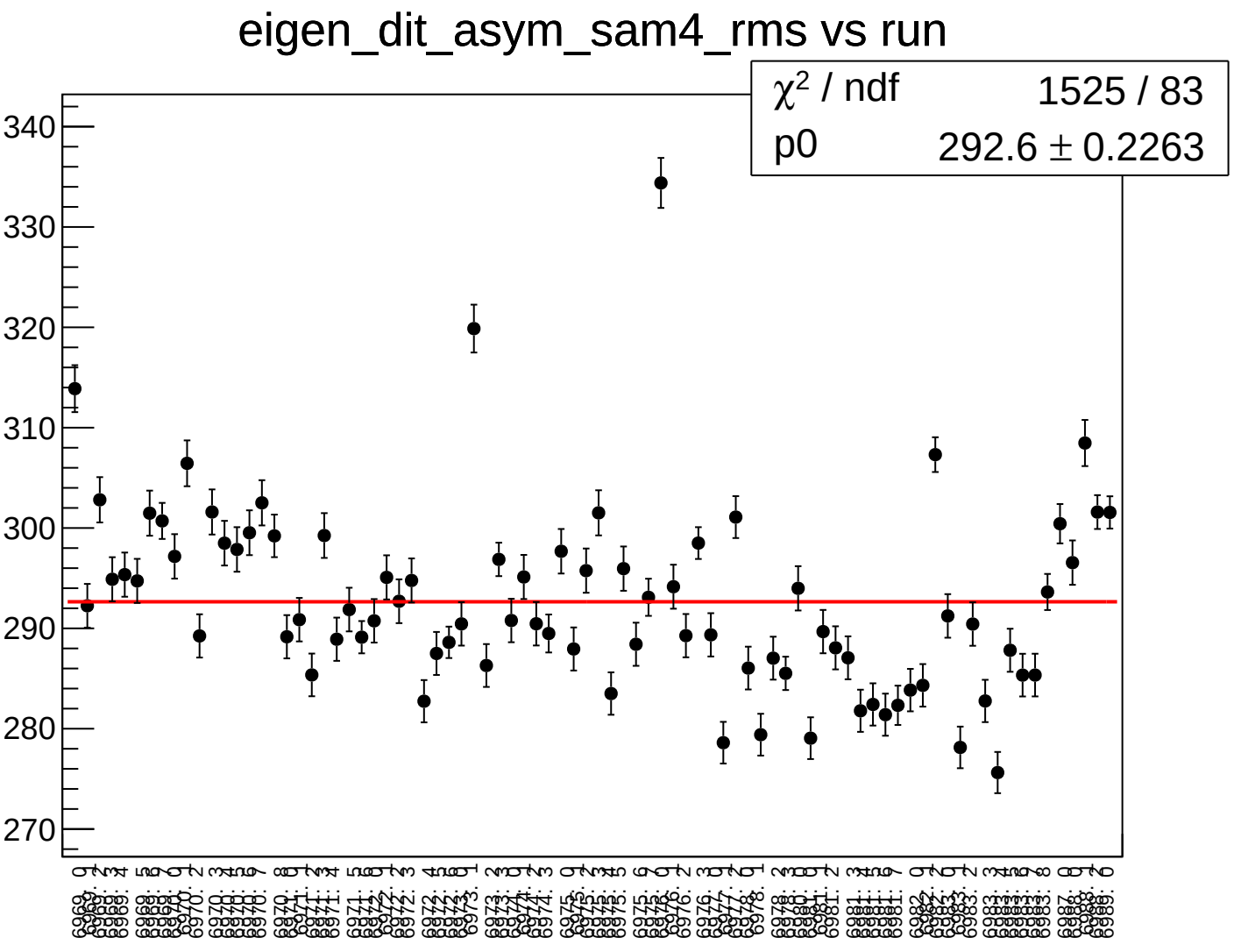

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 90.17 / 83
p0 −3244 ± 2643
pull
Entries 84
Mean 811
Std Dev 0

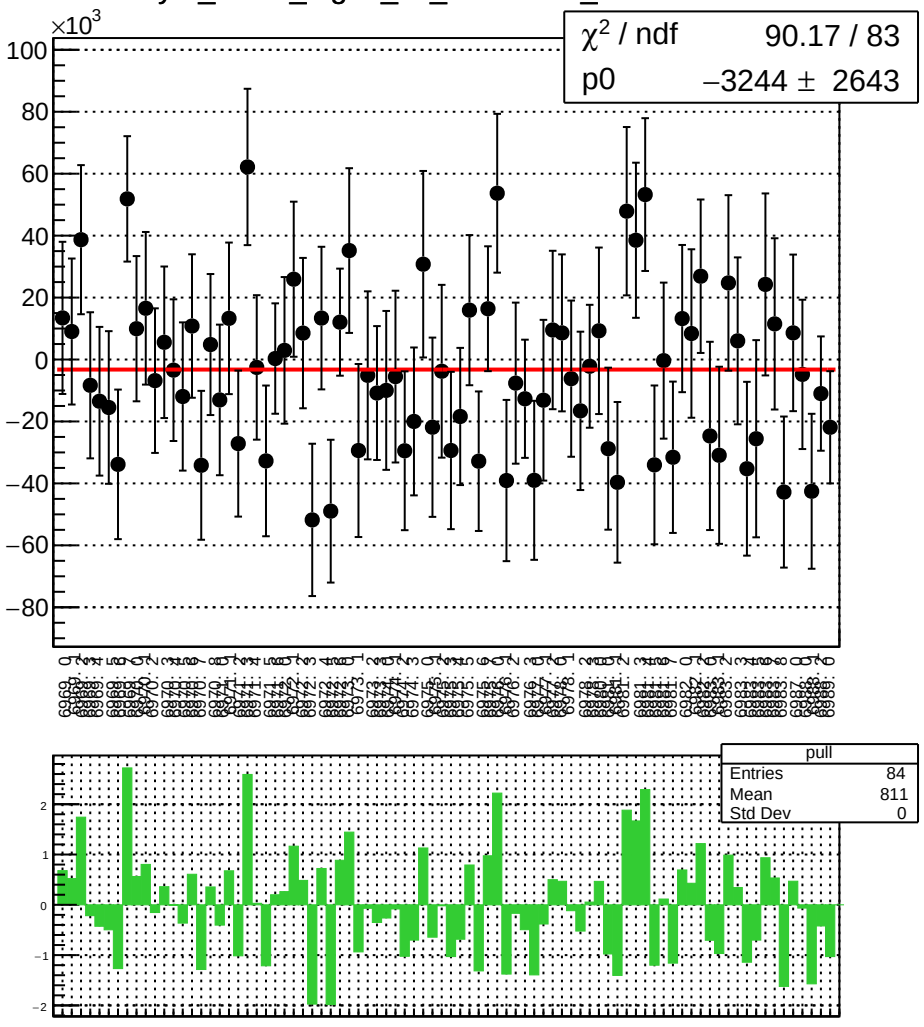

pull1D
Entries 84
Mean −0.004246
Std Dev 1.036

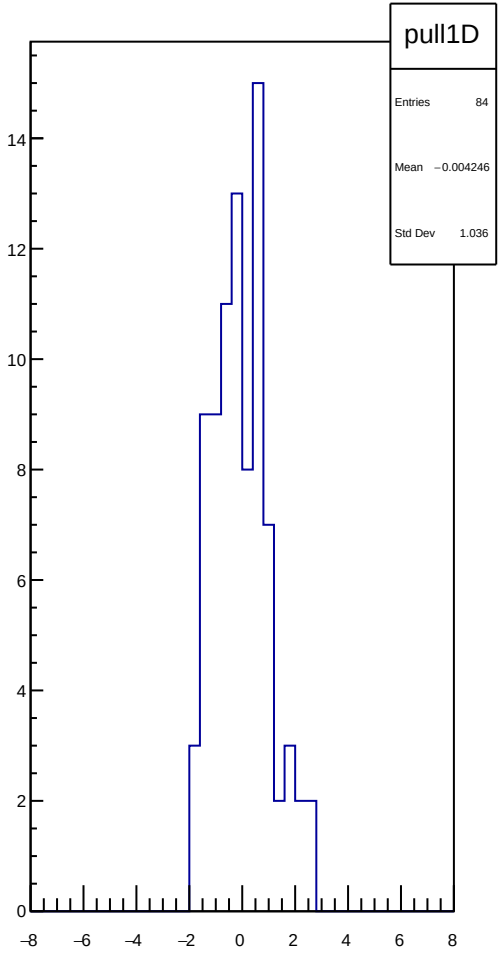

asym_sam4_dit_correction_rms vs run
χ² / ndf 1.057e+04 / 83
p0 2410 ± 1.869
3200
3000
2800
2600
2400
2200
2000

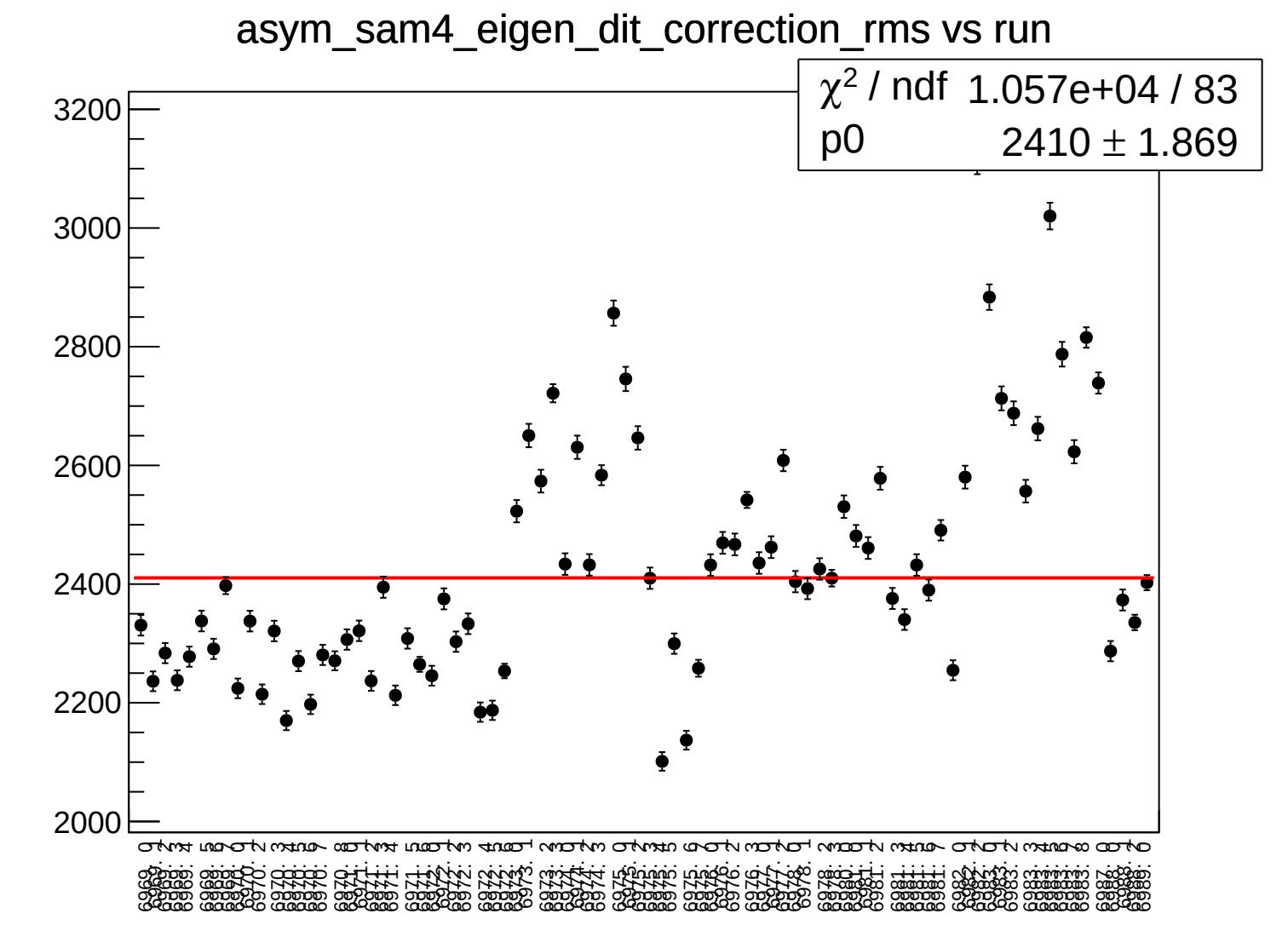

eigen_dit_asym_sam4_mean vs run
χ² / ndf 98.84 / 83
p0 65.88 ± 320.1
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 8.118e+04
Std Dev 0
3
2
1
0
−1
−2

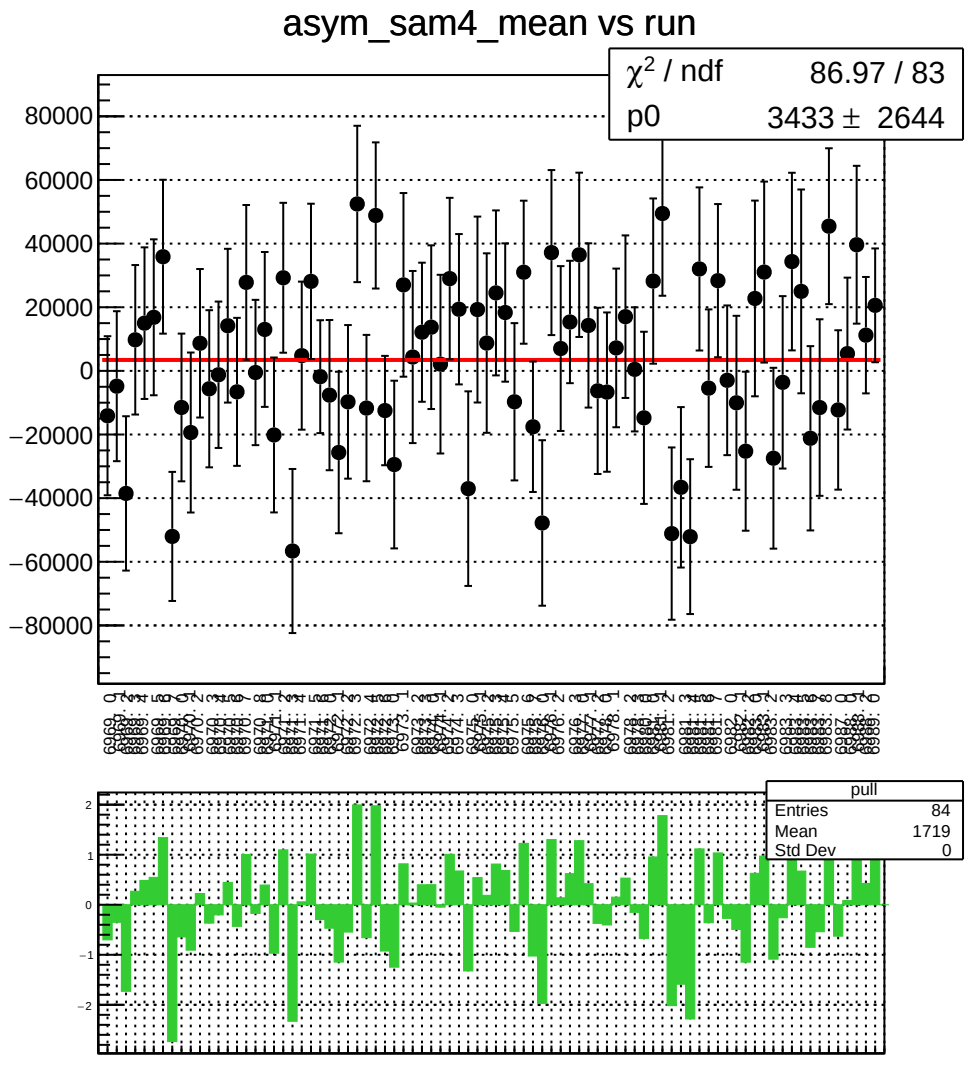

pull1D
Entries 84
Mean −8.548e−06
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

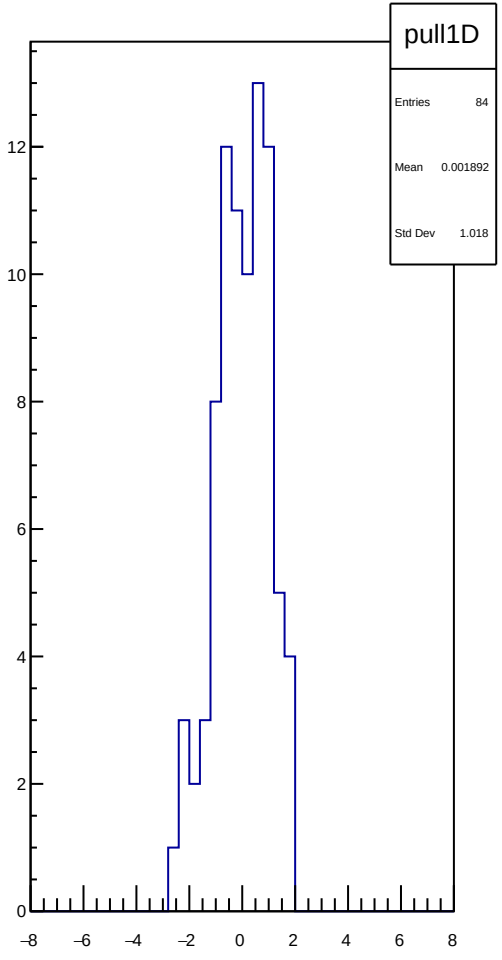

eigen_dit_asym_sam4_rms vs run
χ² / ndf 1525 / 83
p0 292.6 ± 0.2263
340
330
320
310
300
290
280
270

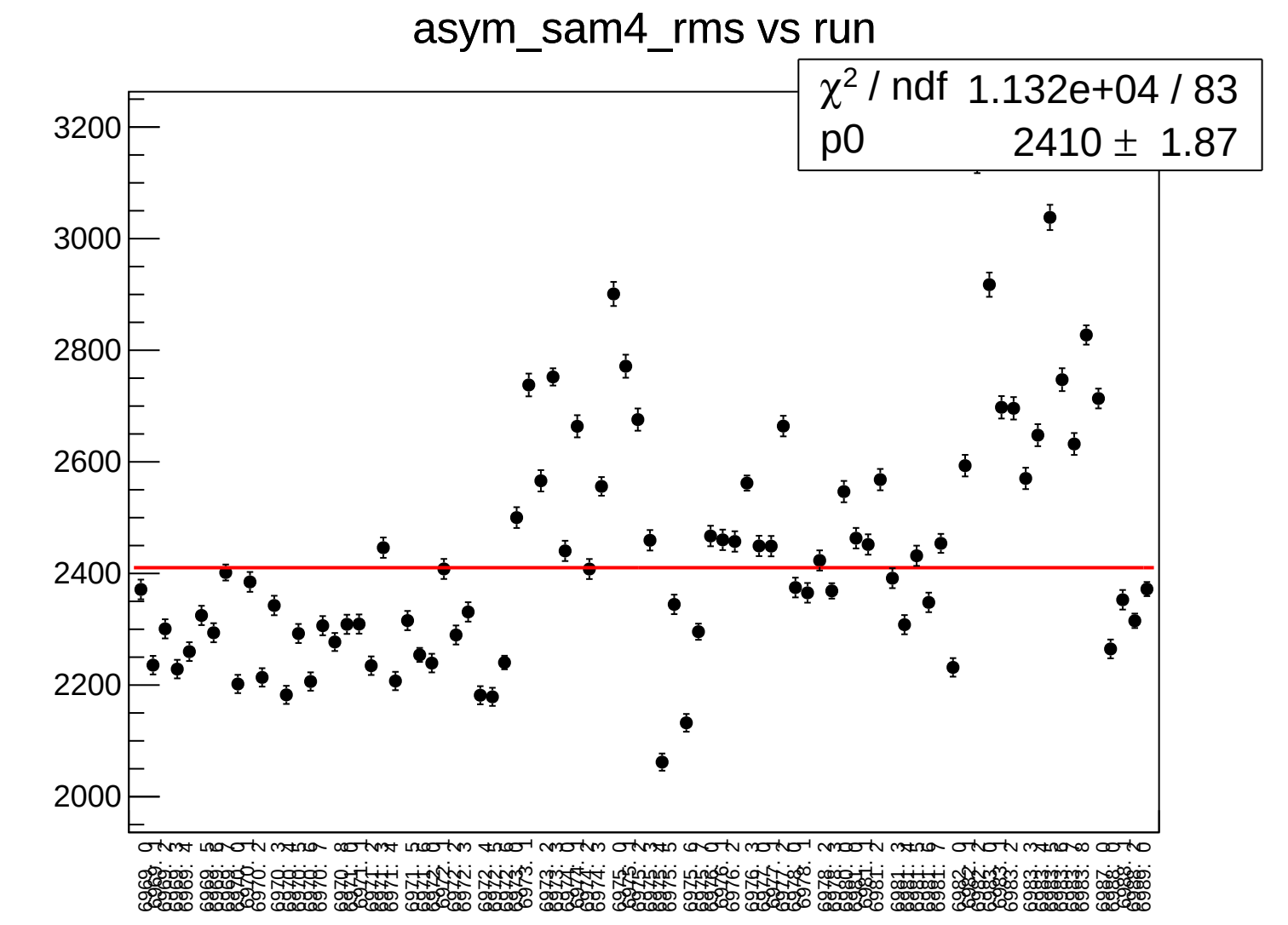

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.17 / 83
p0 −3244 ± 2643
pull
Entries 84
Mean 811
Std Dev 0

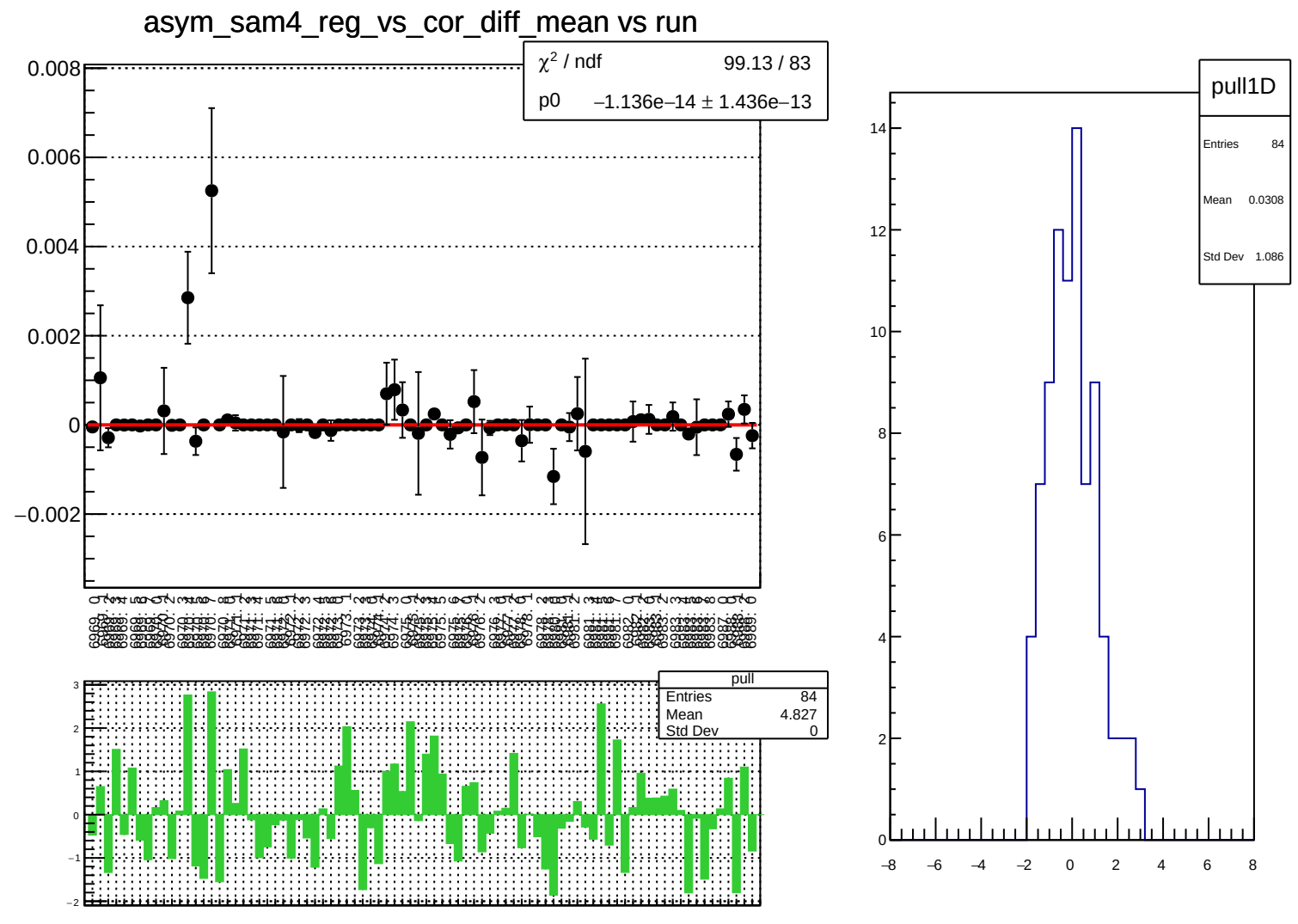

pull1D
Entries 84
Mean −0.004246
Std Dev 1.036

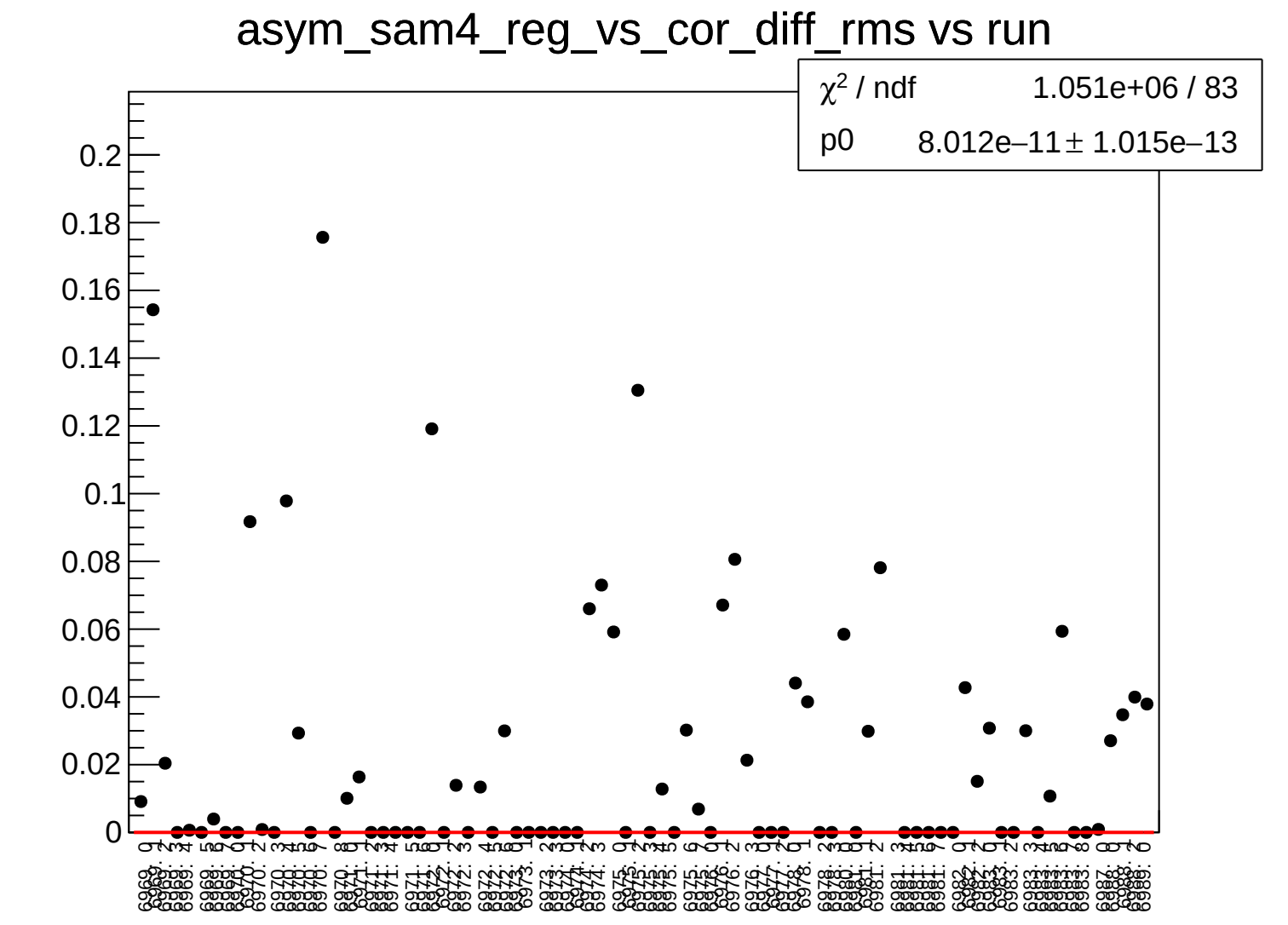

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1.057e+04 / 83
p0 2410 ± 1.869
3200
3000
2800
2600
2400
2200
2000

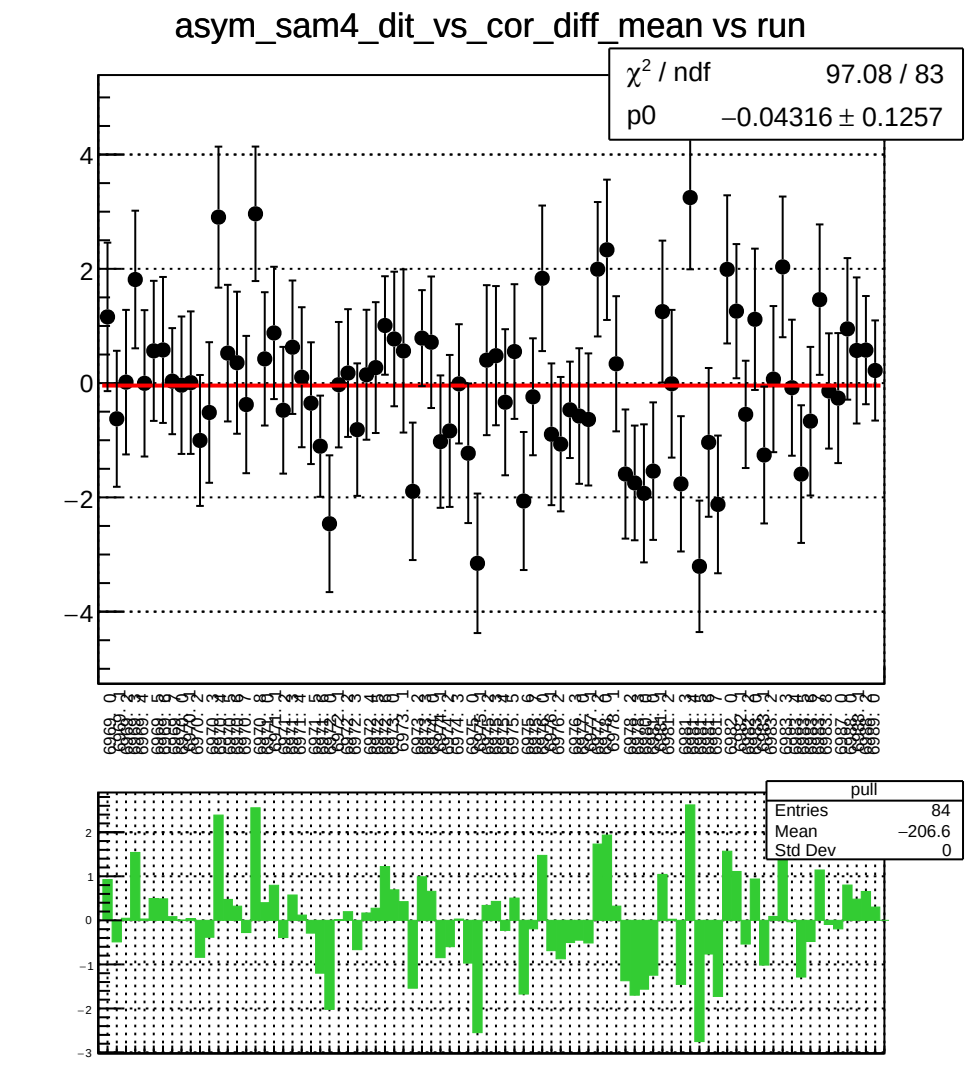

asym_sam4_mean vs run
χ² / ndf 86.97 / 83
p0 3433 ± 2644
pull
Entries 84
Mean 1719
Std Dev 0

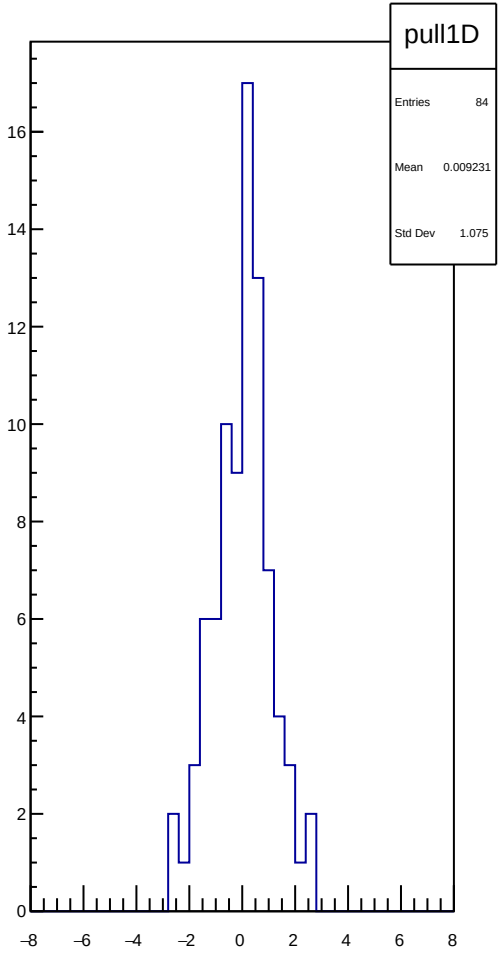

pull1D
Entries 84
Mean 0.001892
Std Dev 1.018

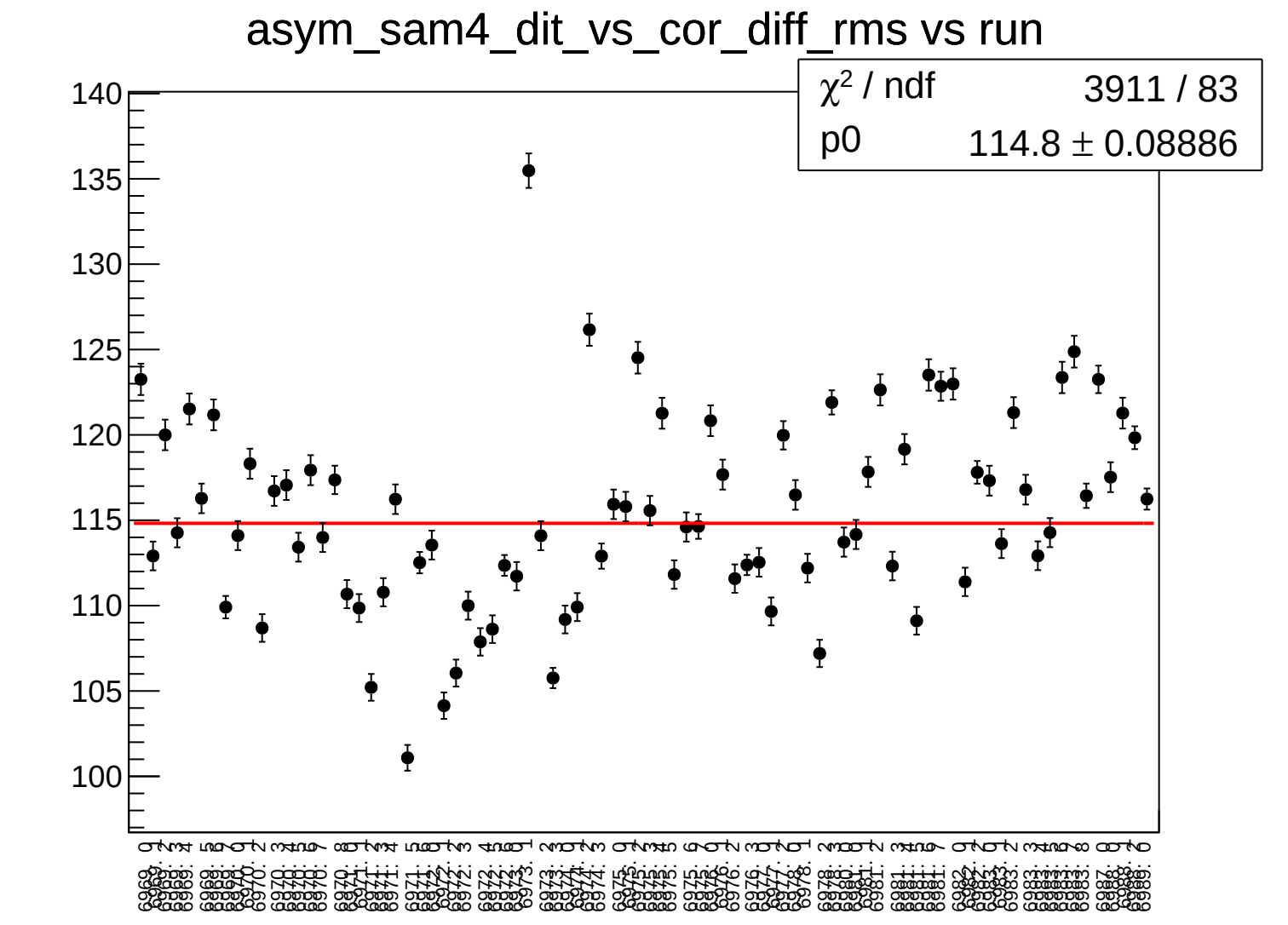

asym_sam4_rms vs run
χ² / ndf 1.132e+04 / 83
p0 2410 ± 1.87
3200
3000
2800
2600
2400
2200
2000

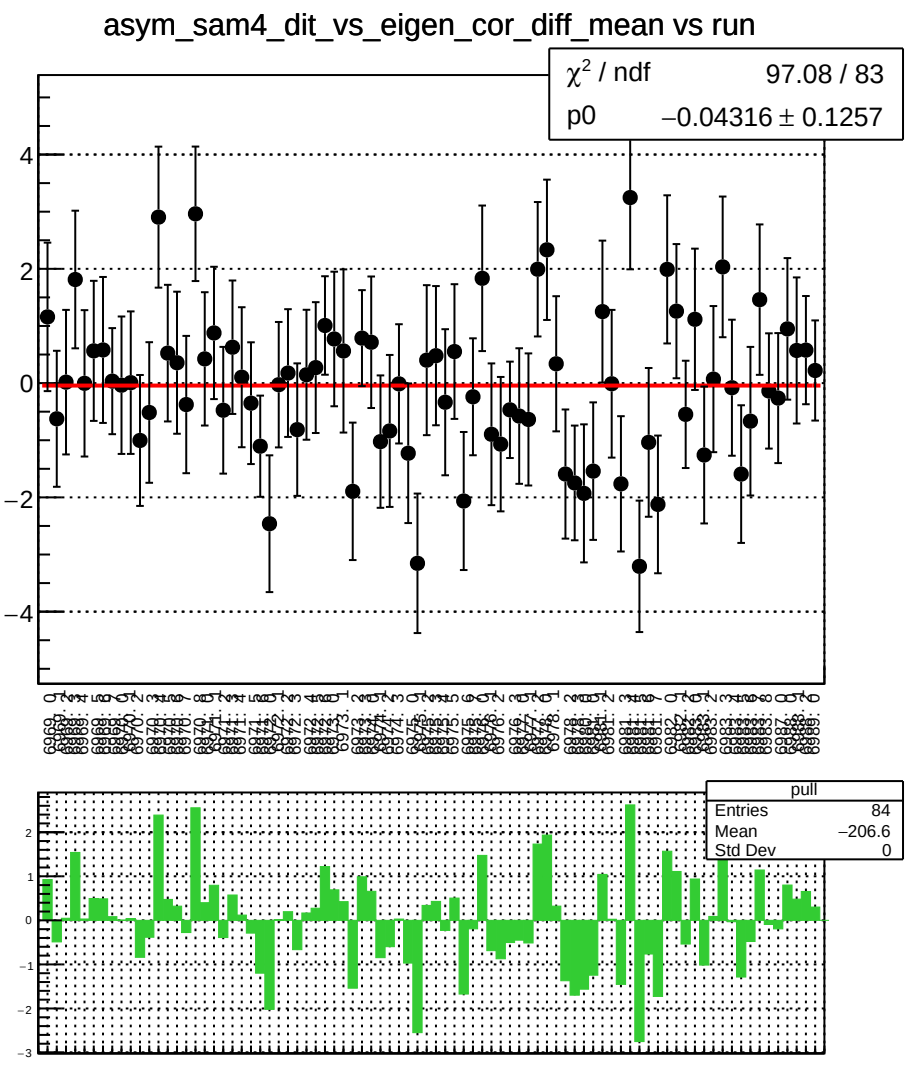

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 99.13 / 83
p0 −1.136e−14 ± 1.436e−13
0.008
0.006
0.004
0.002
0
−0.002
pull
Entries 84
Mean 4.827
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.0308
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

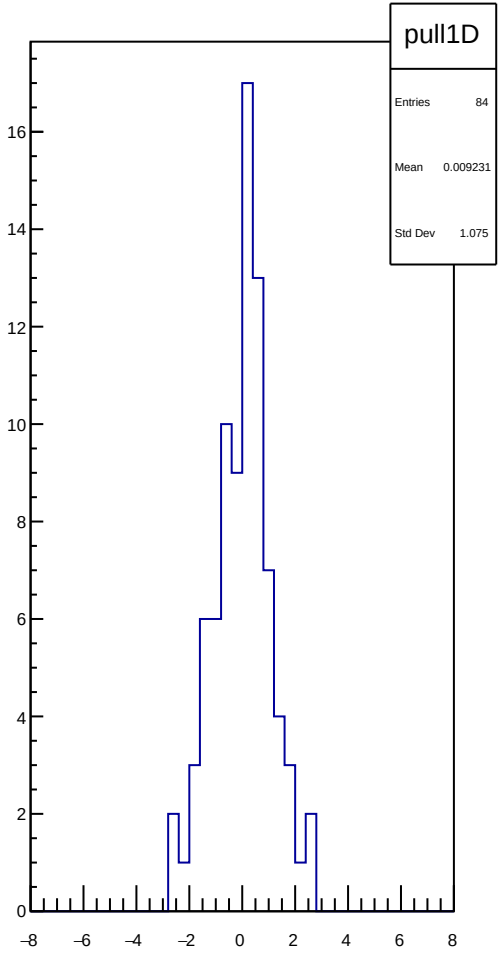

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 83
p0 8.012e−11 ± 1.015e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

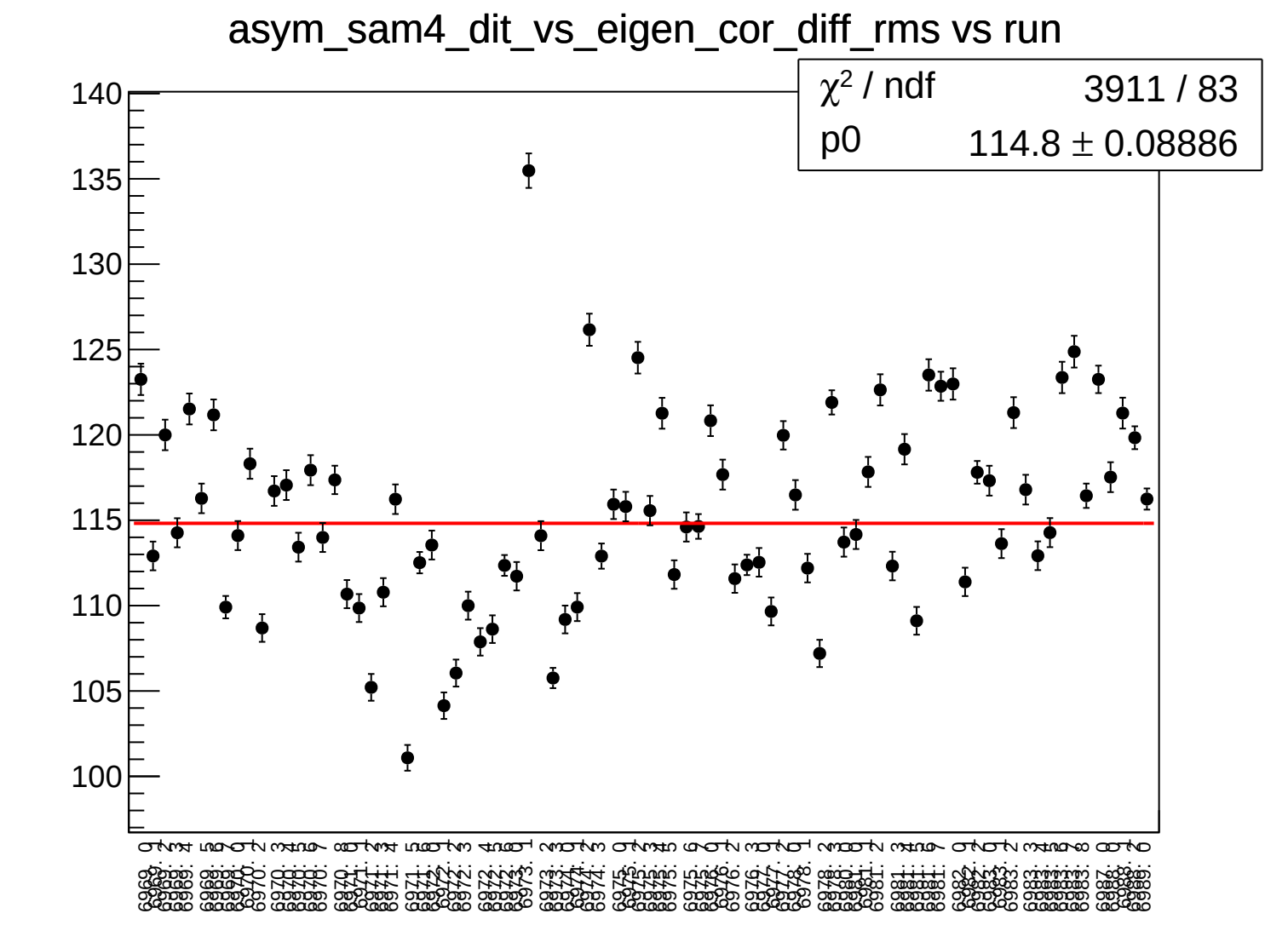

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 97.08 / 83
p0 −0.04316 ± 0.1257
pull
Entries 84
Mean −206.6
Std Dev 0

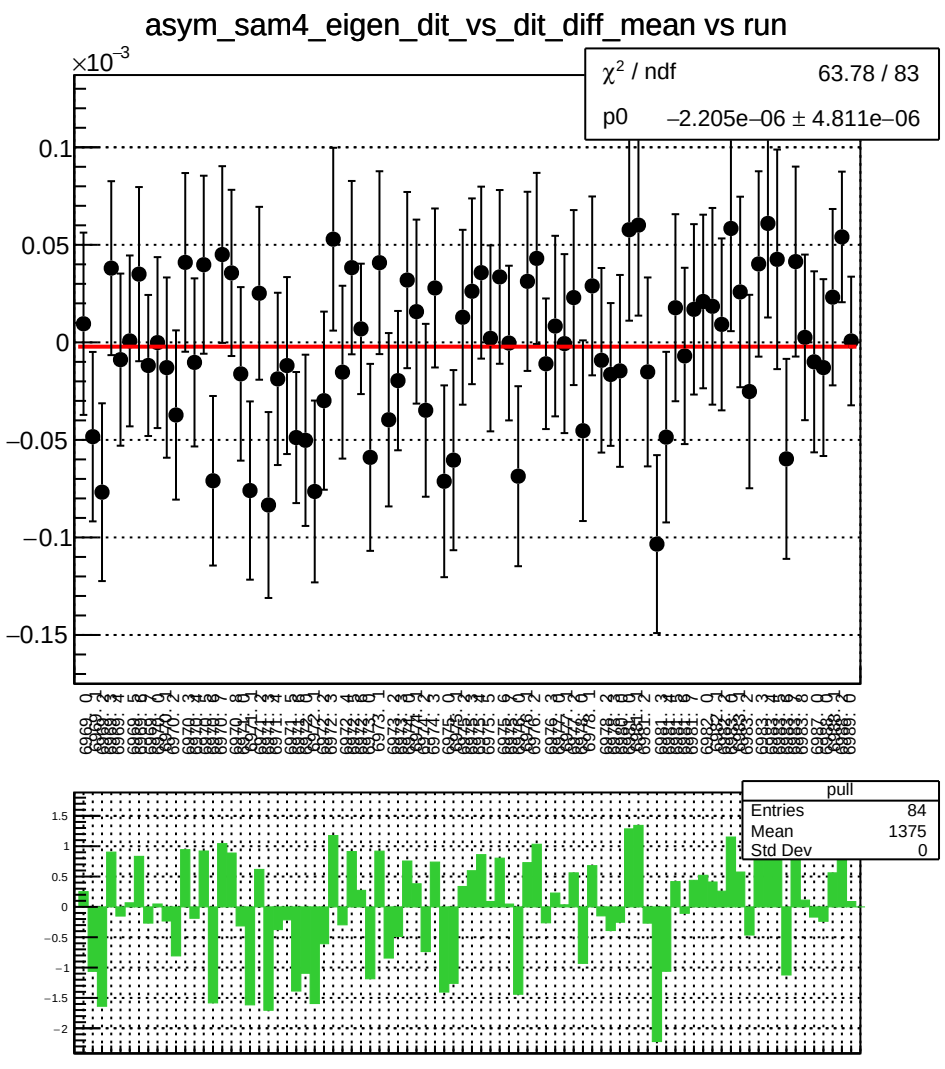

pull1D
Entries 84
Mean 0.009231
Std Dev 1.075

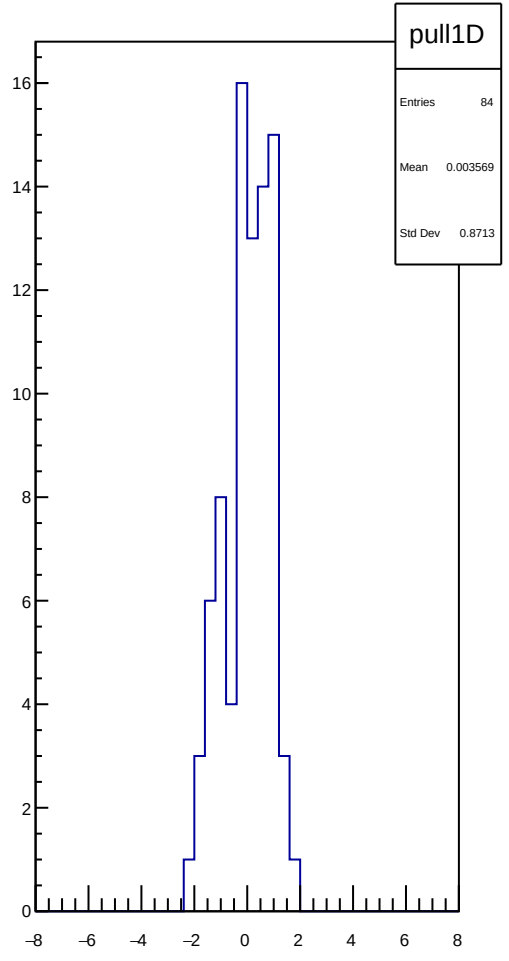

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 3911 / 83
p0 114.8 ± 0.08886
140
135
130
125
120
115
110
105
100

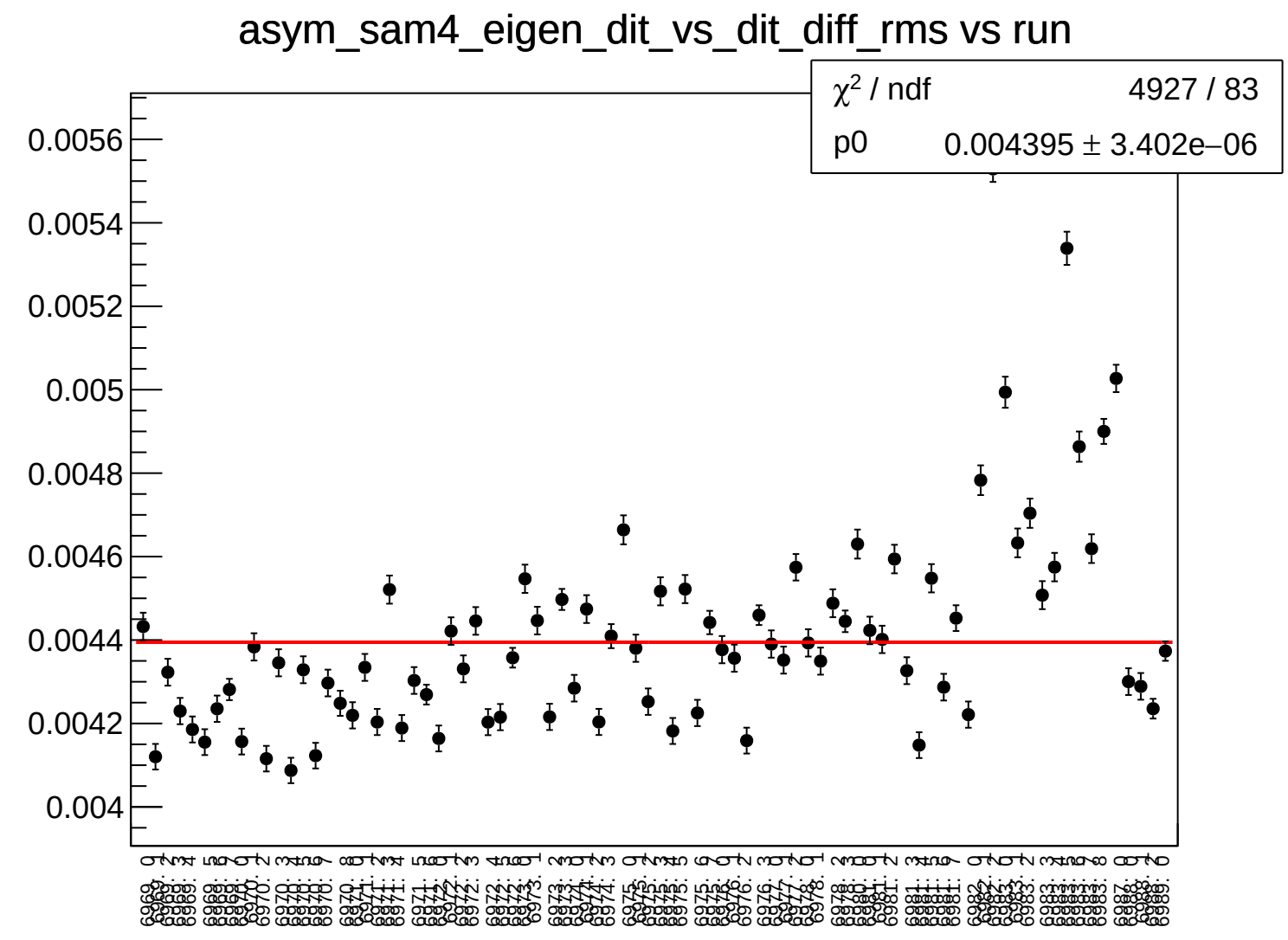

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.08 / 83
p0 −0.04316 ± 0.1257
pull
Entries 84
Mean −206.6
Std Dev 0

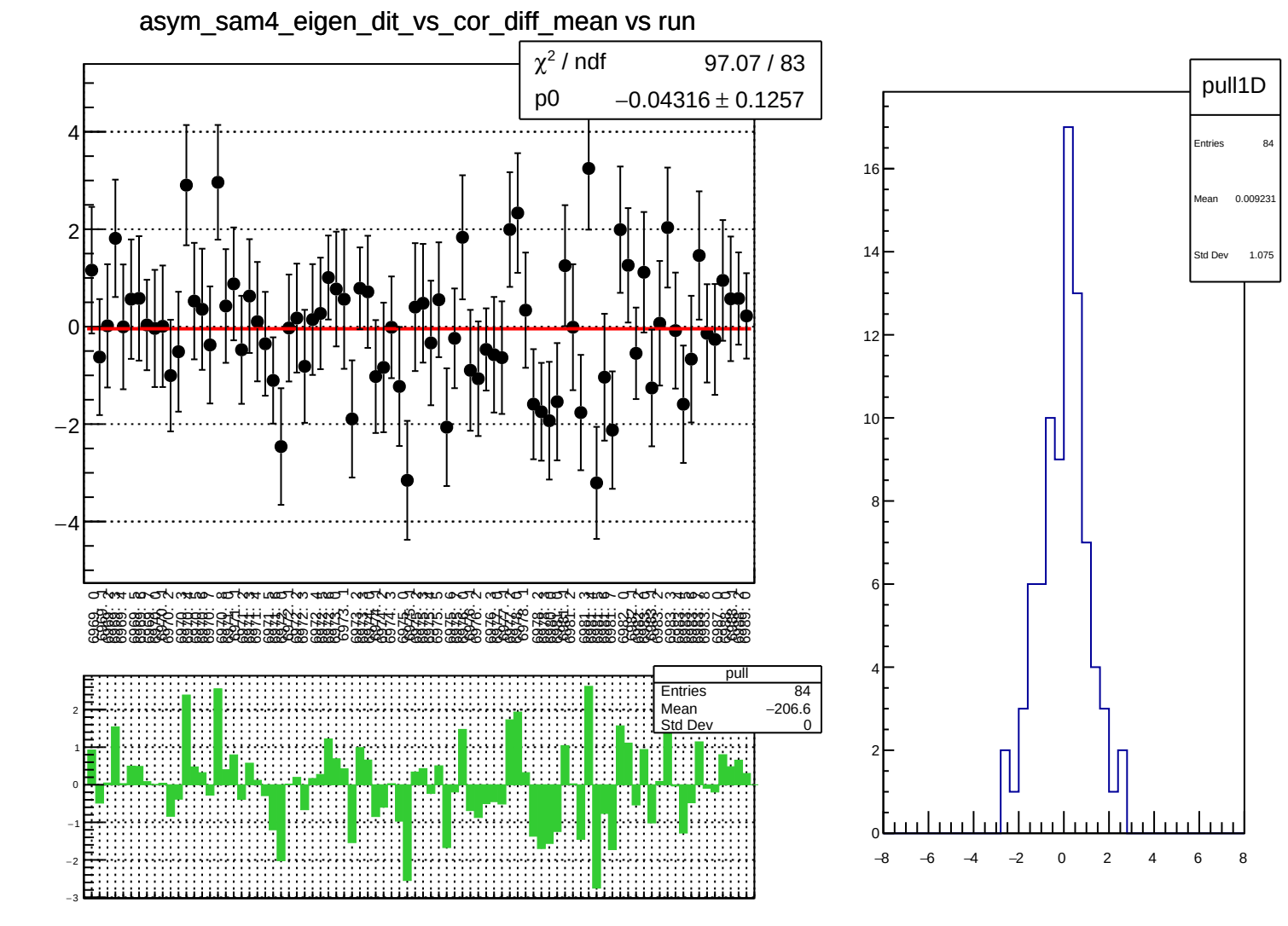

pull1D
Entries 84
Mean 0.009231
Std Dev 1.075

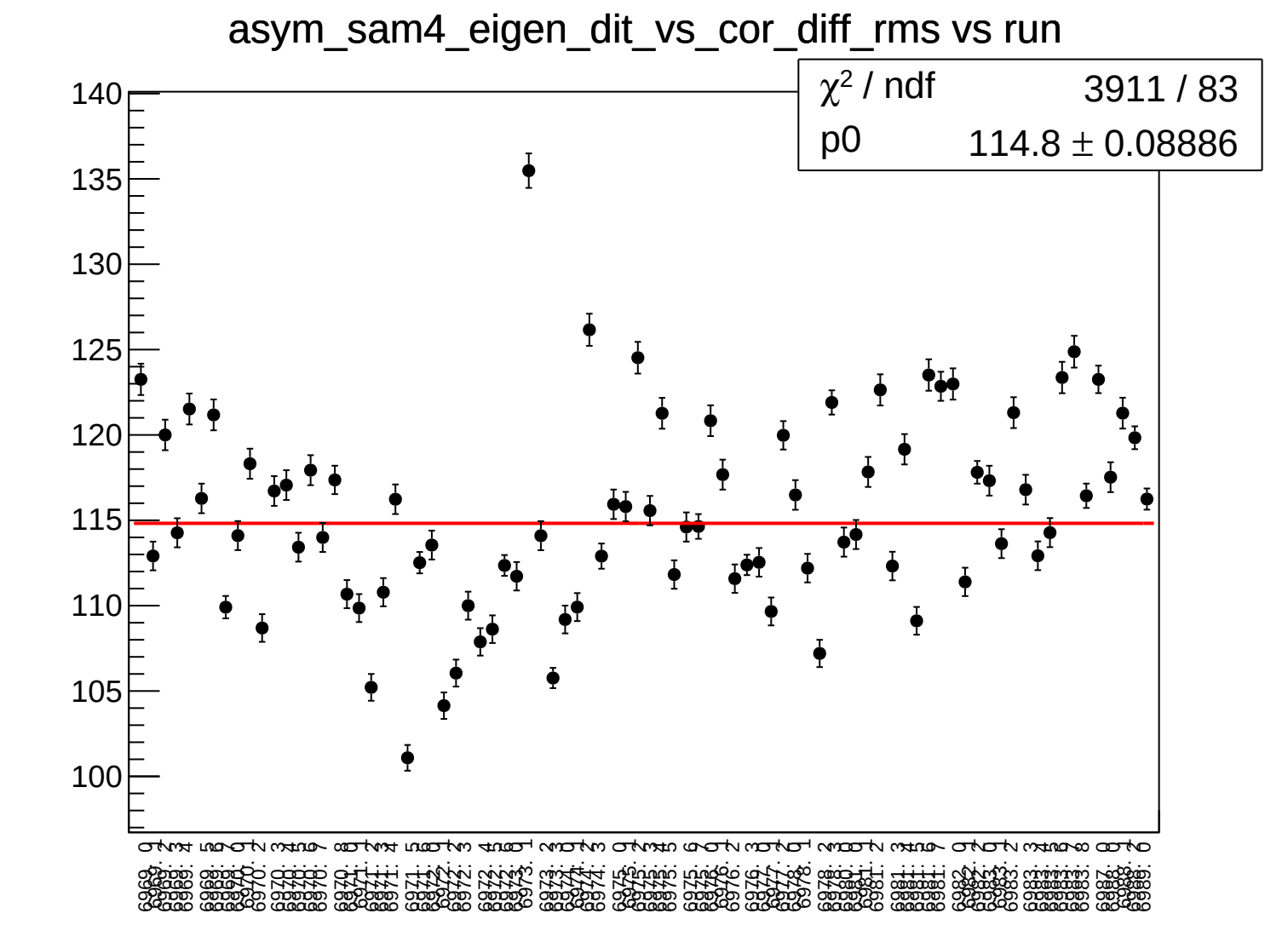

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3911 / 83
p0 114.8 ± 0.08886
140
135
130
125
120
115
110
105
100

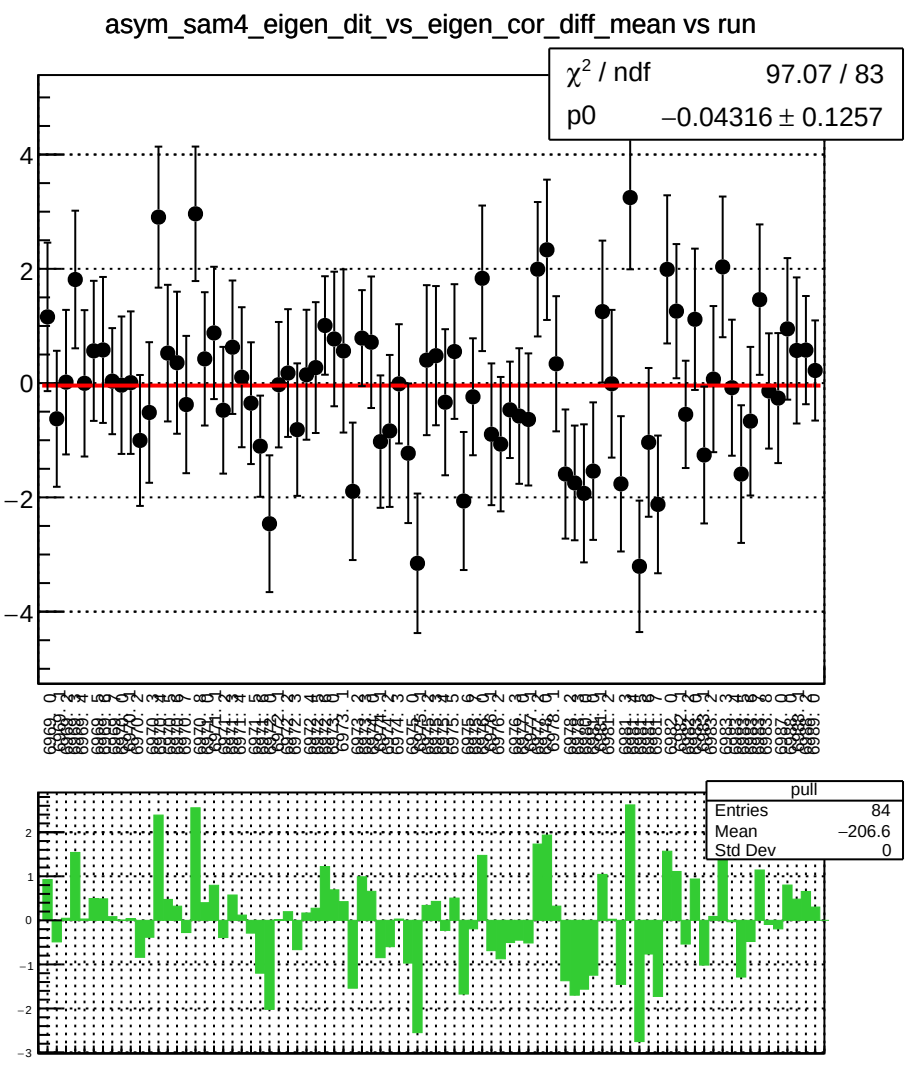

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.78 / 83
p0 −2.205e−06 ± 4.811e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean 1375
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

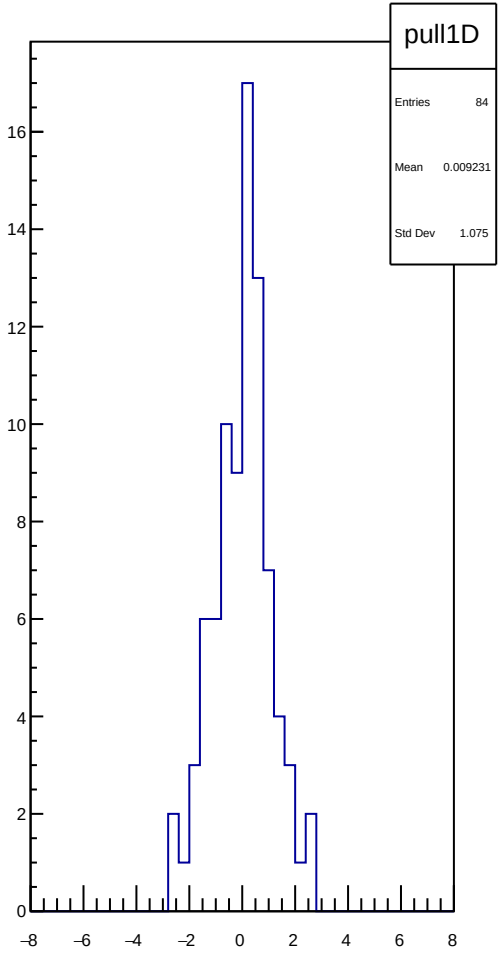

pull1D
Entries 84
Mean 0.003569
Std Dev 0.8713
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

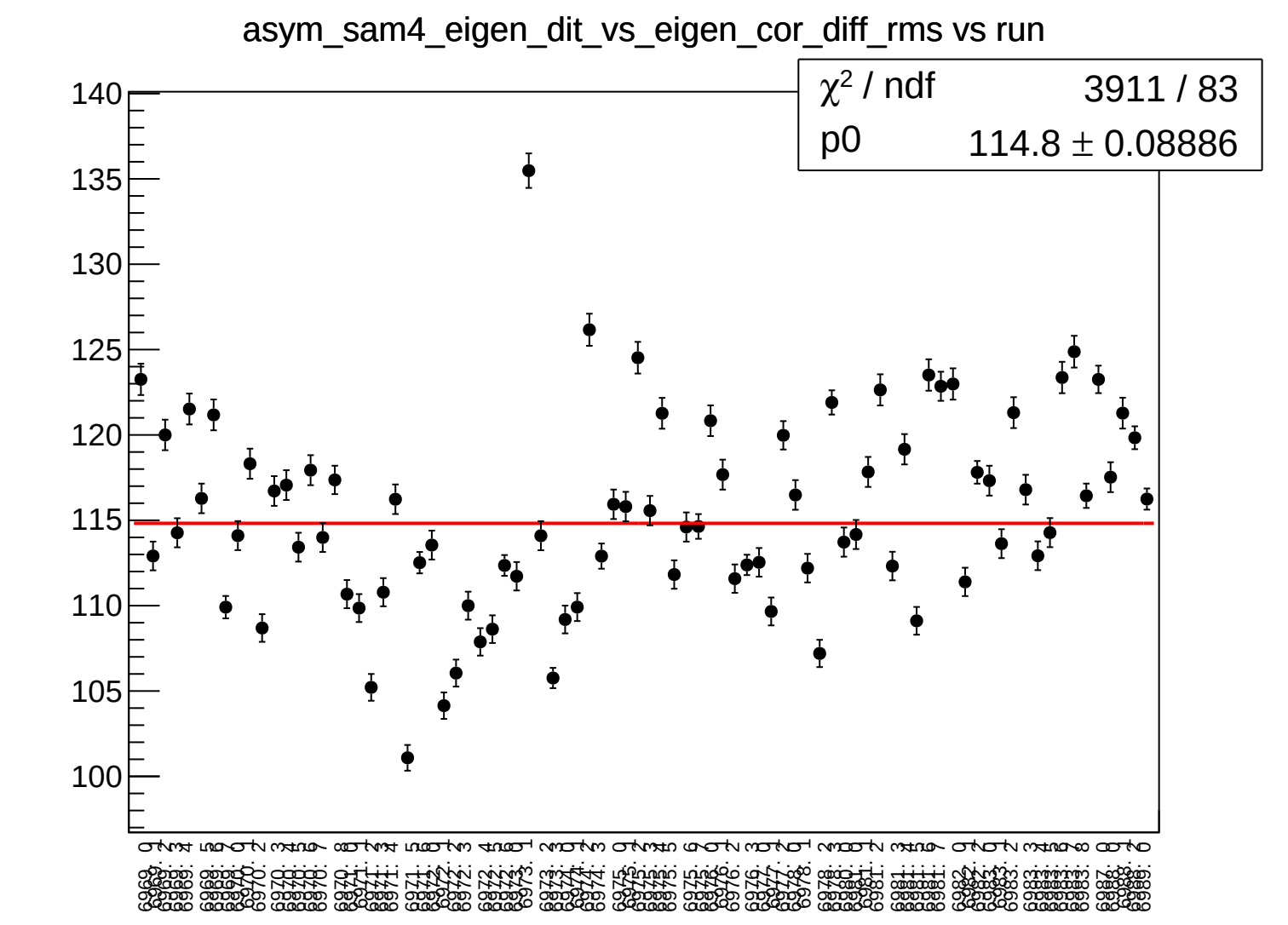

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4927 / 83
p0 0.004395 ± 3.402e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

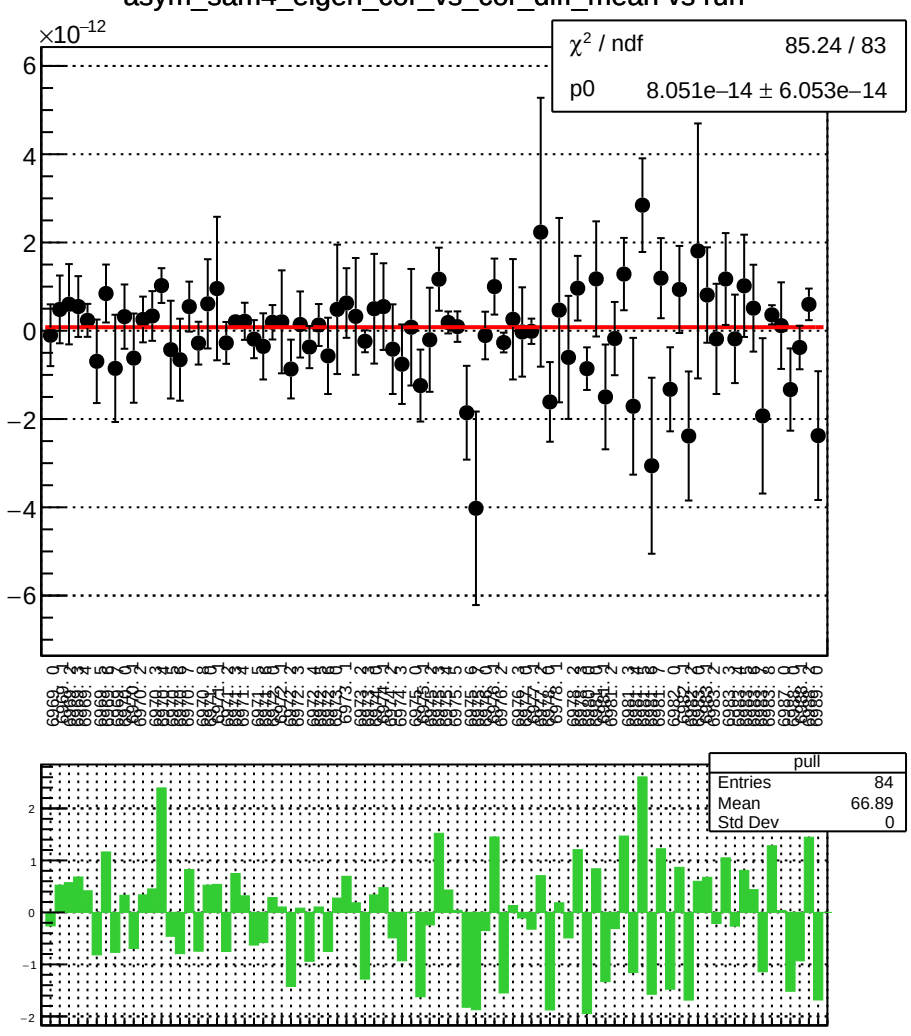

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.07 / 83
p0 −0.04316 ± 0.1257
pull
Entries 84
Mean −206.6
Std Dev 0
pull1D
Entries 84
Mean 0.009231
Std Dev 1.075

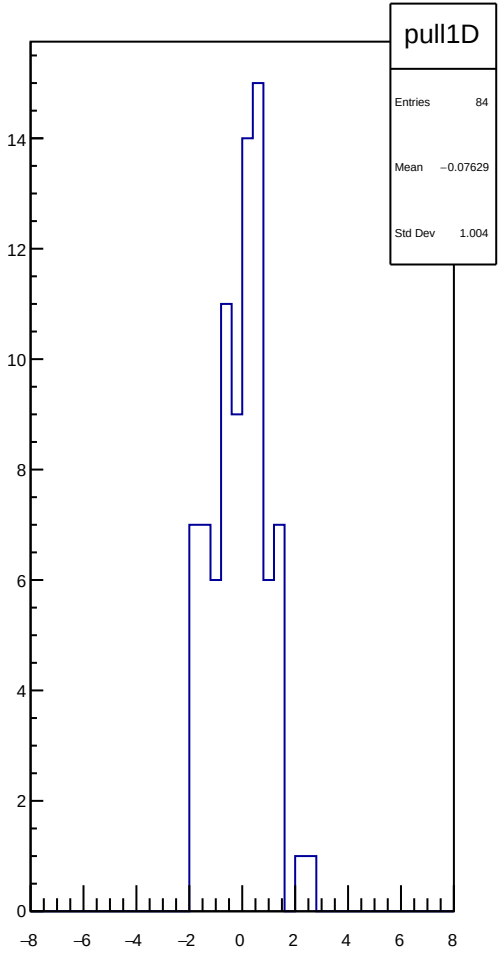

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3911 / 83
p0 114.8 ± 0.08886
140
135
130
125
120
115
110
105
100

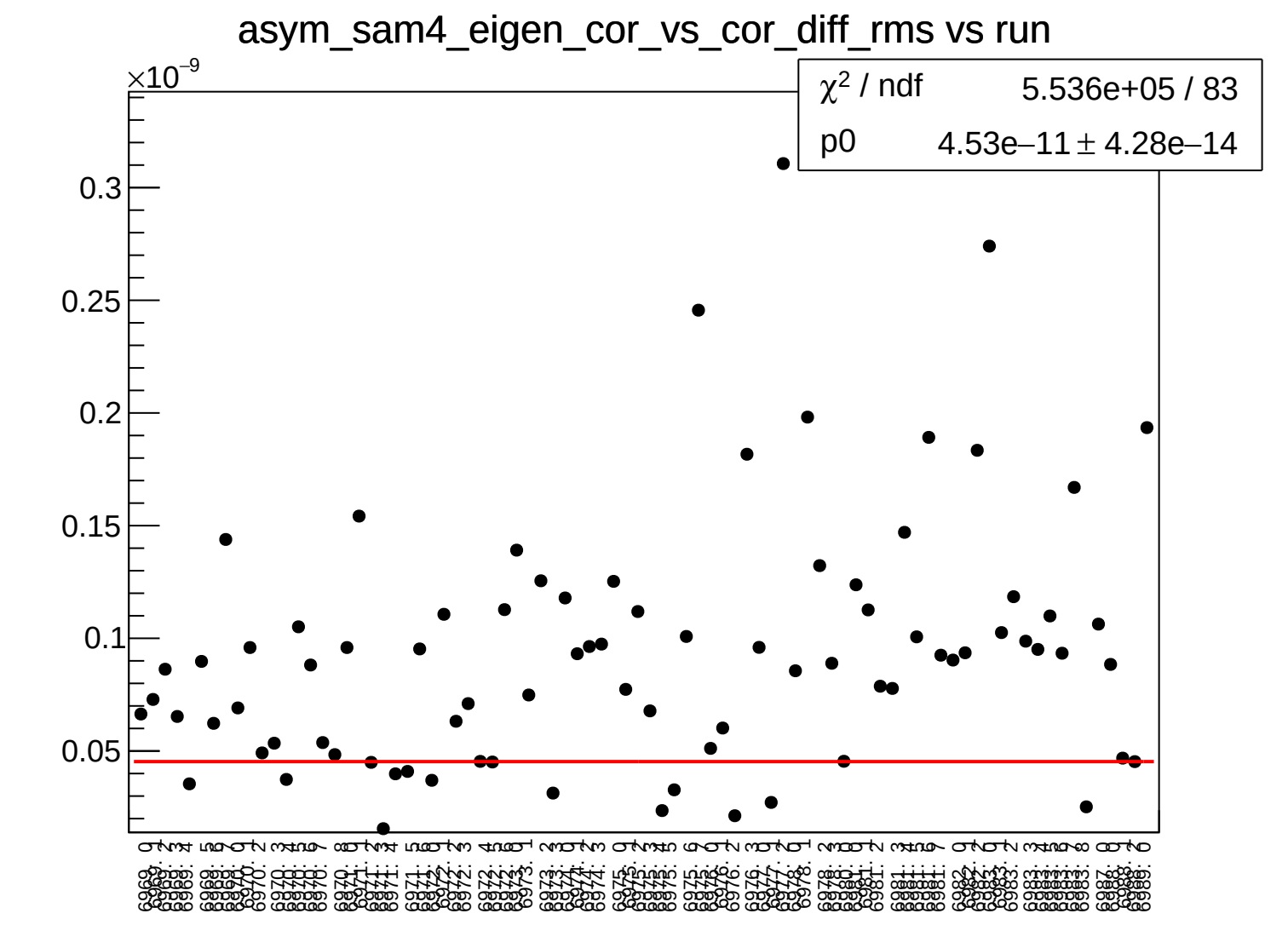

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.07 / 83
p0 −0.04316 ± 0.1257
pull
Entries 84
Mean −206.6
Std Dev 0

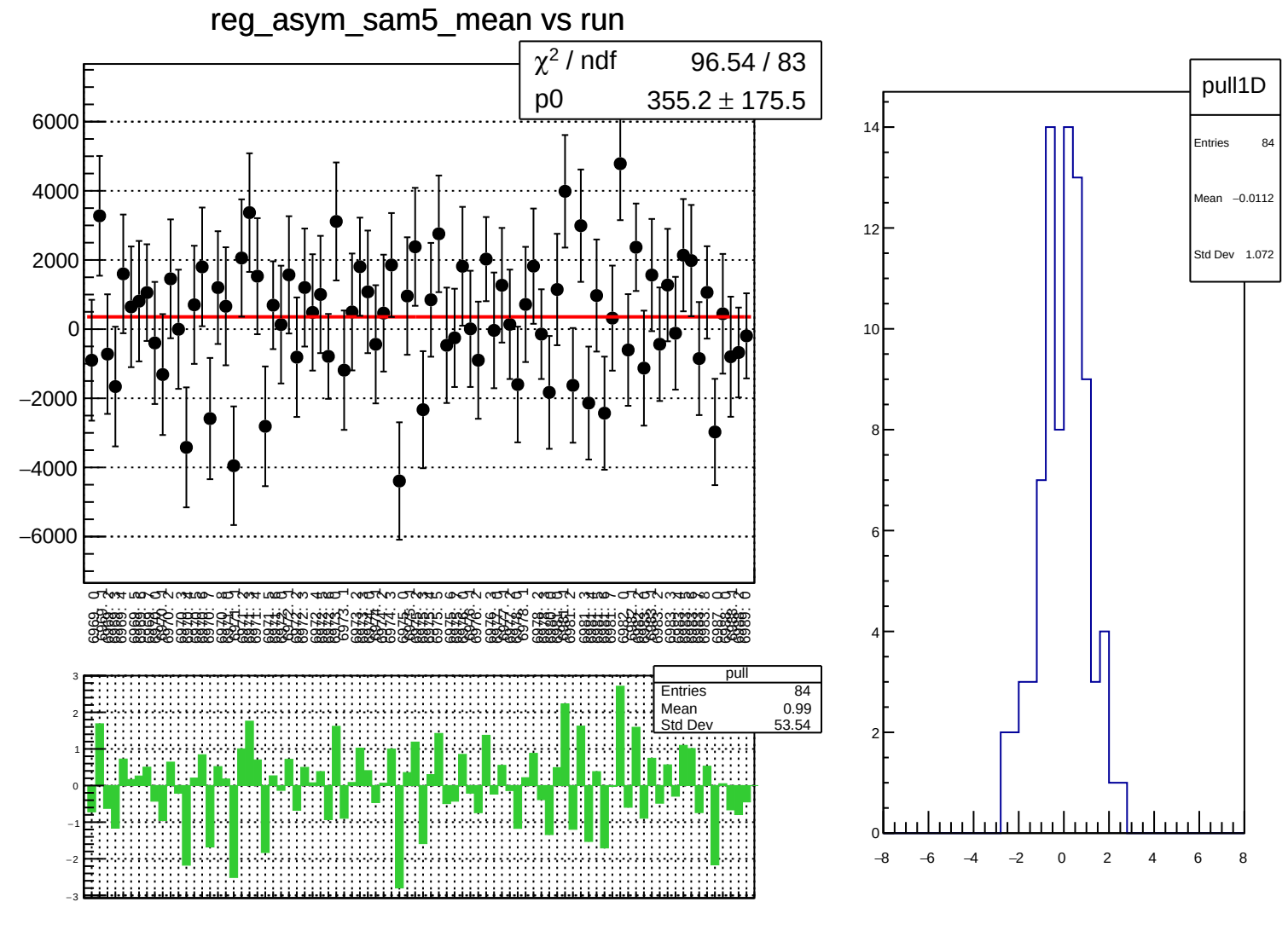

pull1D
Entries 84
Mean 0.009231
Std Dev 1.075

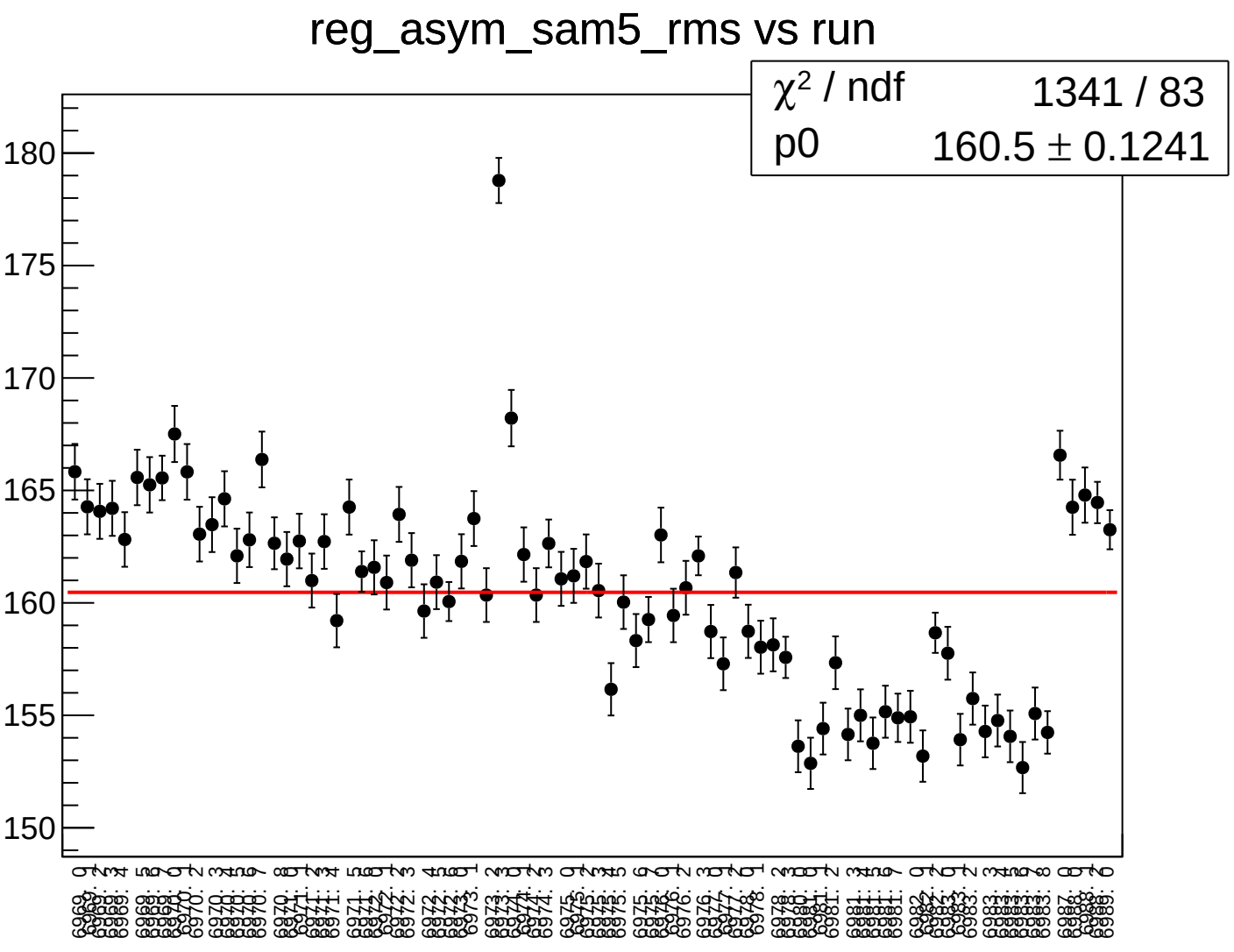

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3911 / 83
p0 114.8 ± 0.08886
140
135
130
125
120
115
110
105
100

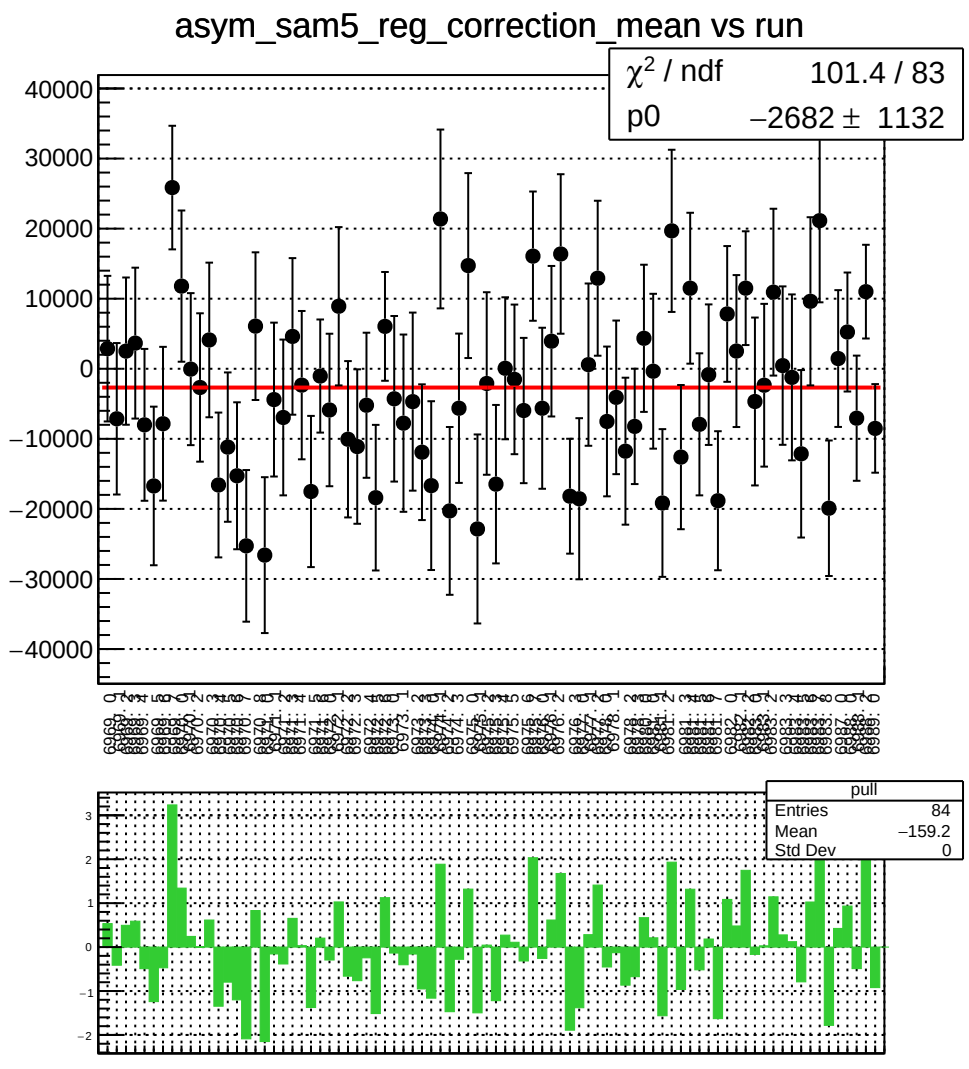

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.24 / 83
p0 8.051e−14 ± 6.053e−14
pull
Entries 84
Mean 66.89
Std Dev 0

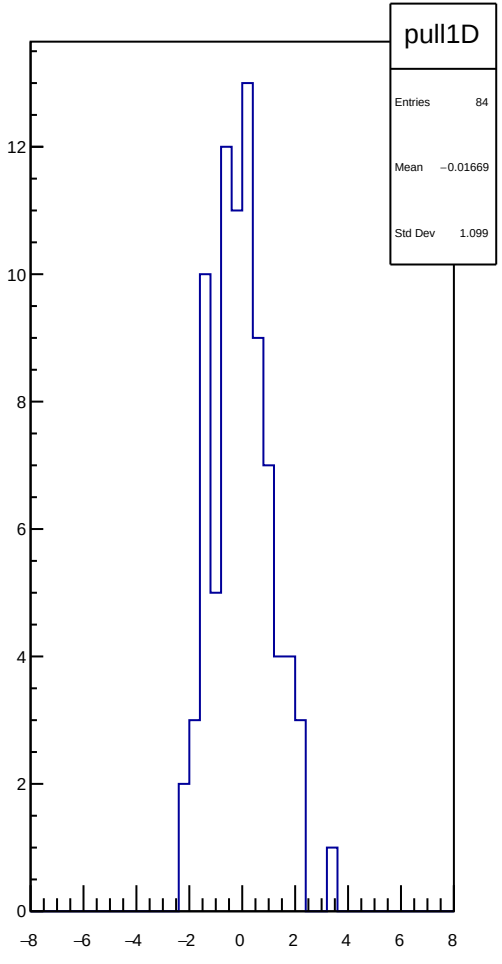

pull1D
Entries 84
Mean −0.07629
Std Dev 1.004

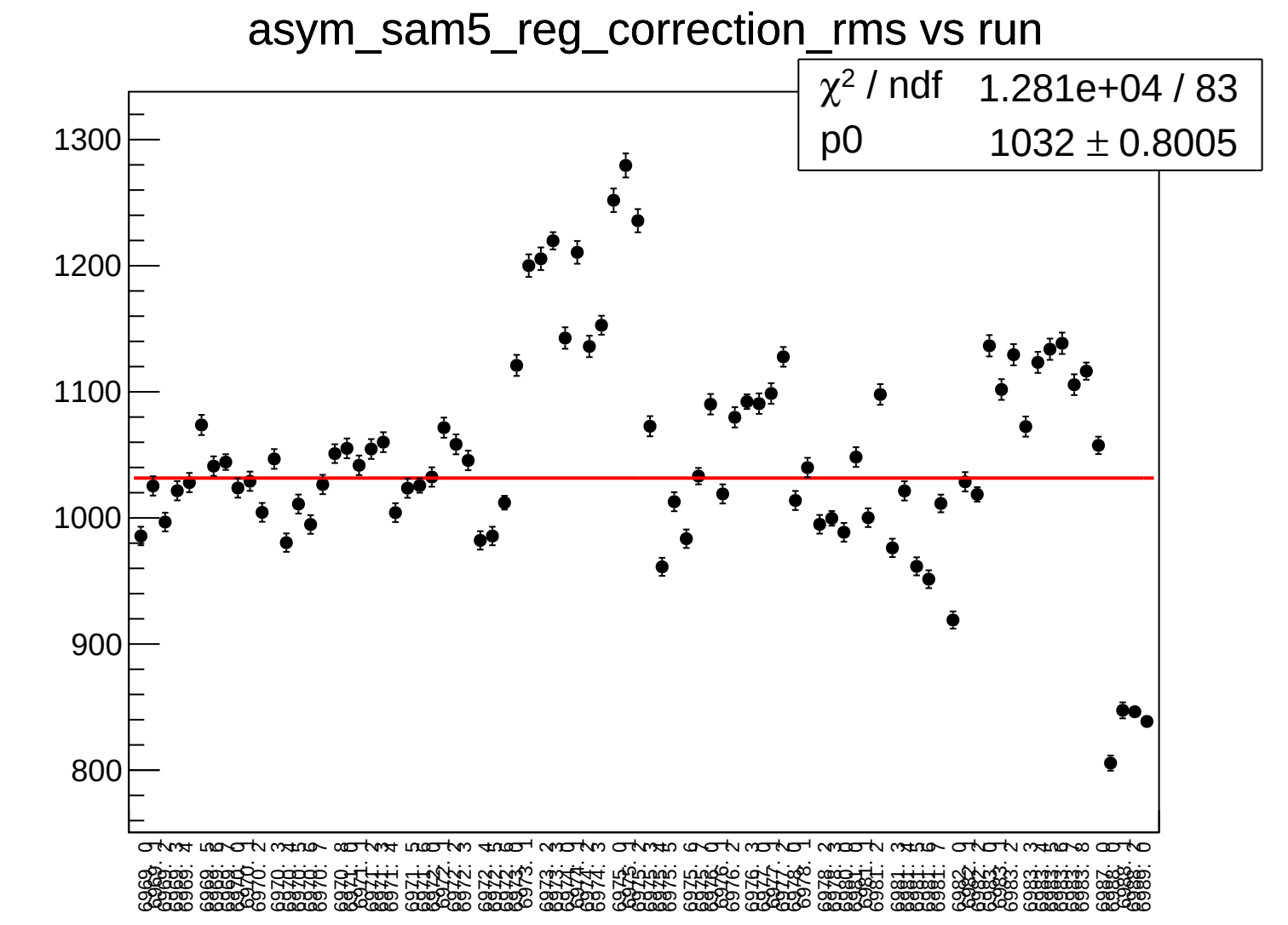

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.536e+05 / 83
p0 4.53e−11 ± 4.28e−14
0.3
0.25
0.2
0.15
0.1
0.05

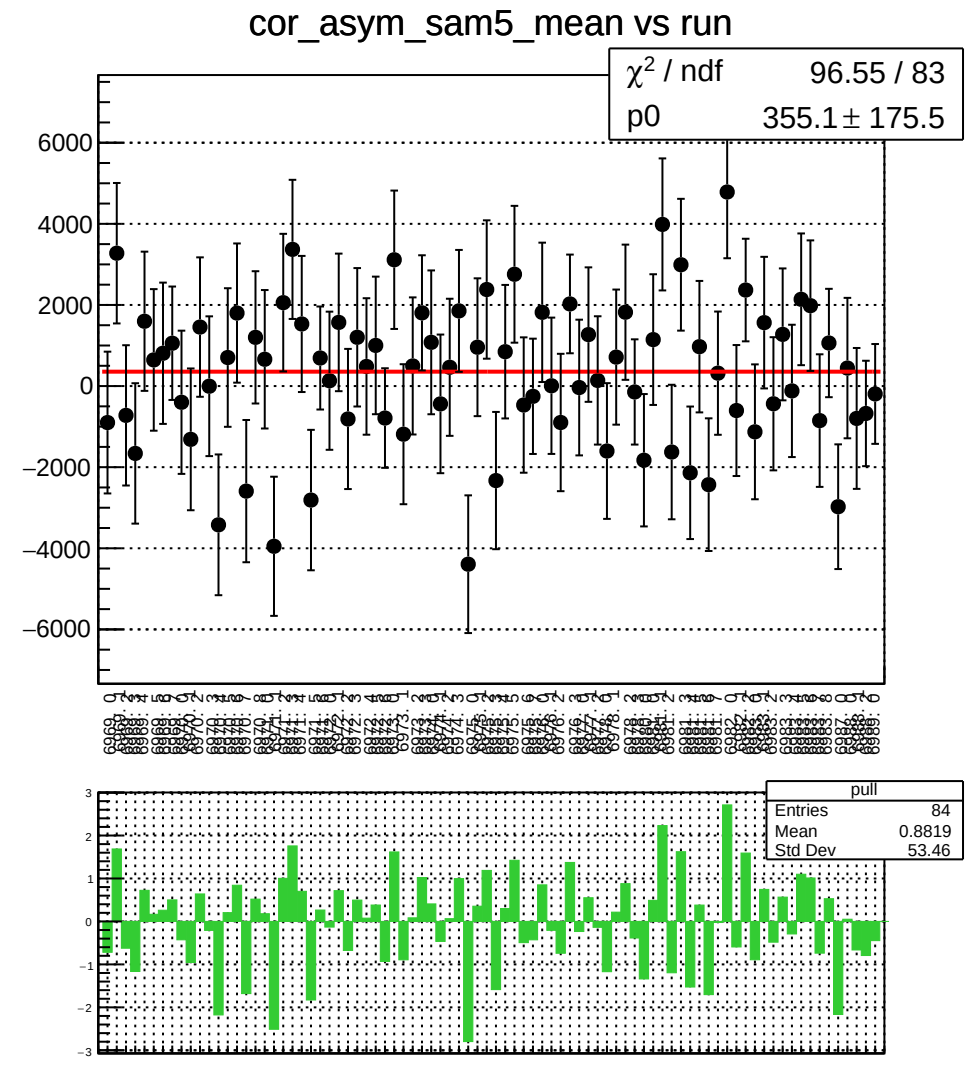

reg_asym_sam5_mean vs run
χ² / ndf 96.54 / 83
p0 355.2 ± 175.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 0.99
Std Dev 53.54
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.0112
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

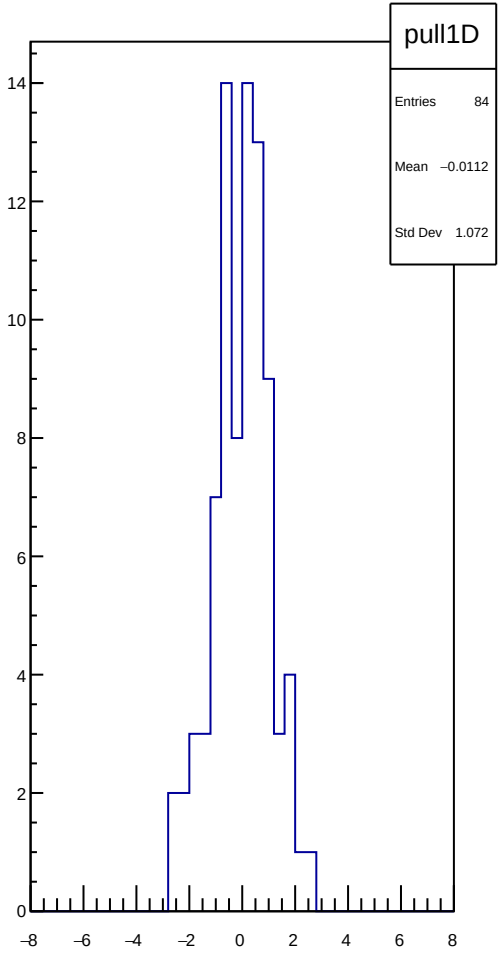

reg_asym_sam5_rms vs run
χ² / ndf 1341 / 83
p0 160.5 ± 0.1241
180
175
170
165
160
155
150

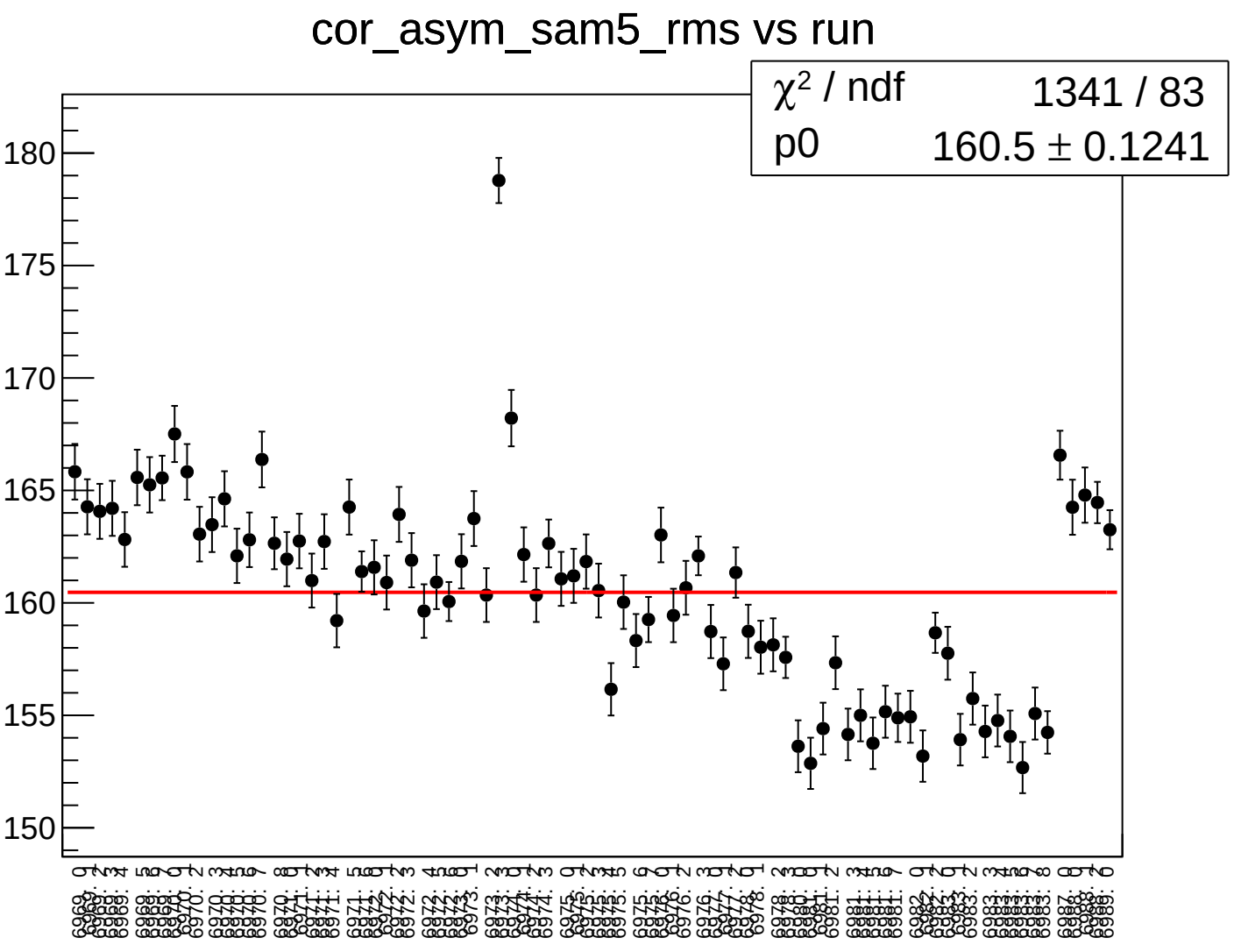

asym_sam5_reg_correction_mean vs run
χ² / ndf 101.4 / 83
p0 −2682 ± 1132
pull
Entries 84
Mean −159.2
Std Dev 0

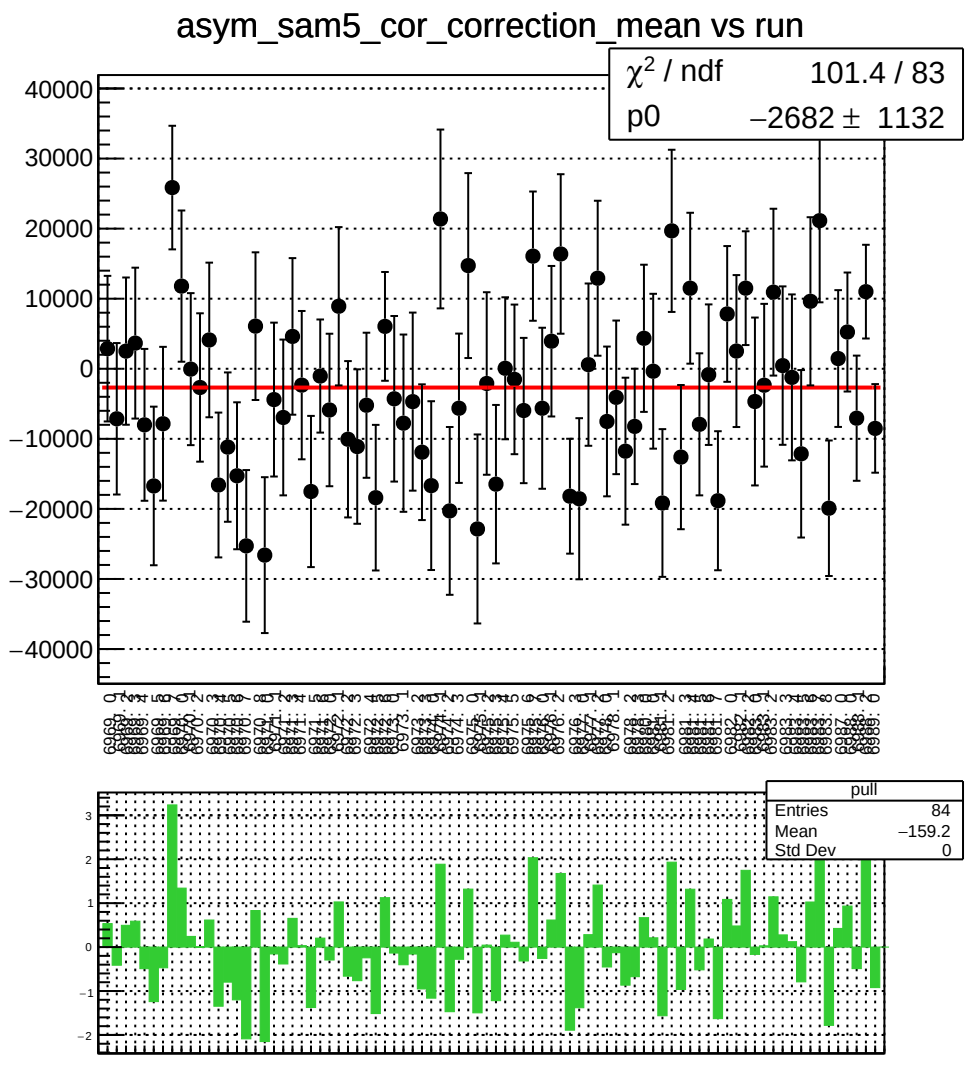

pull1D
Entries 84
Mean −0.01669
Std Dev 1.099

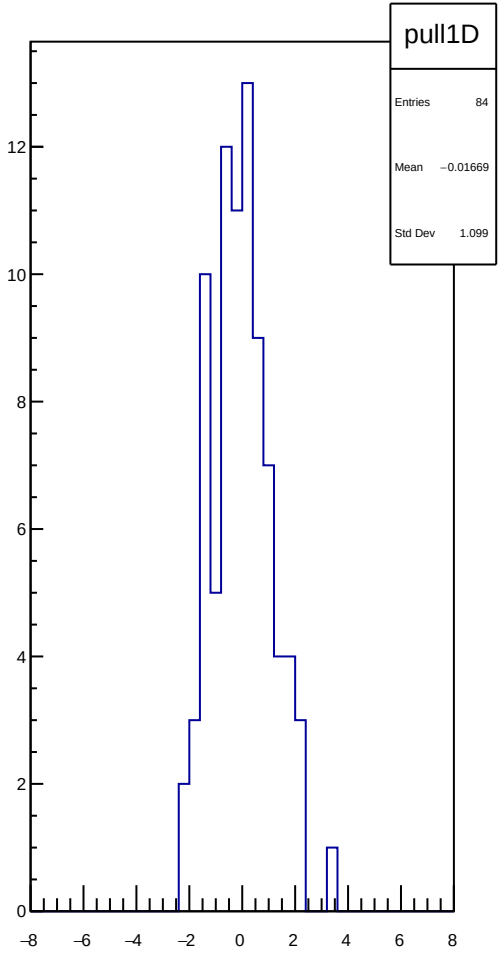

asym_sam5_reg_correction_rms vs run
χ² / ndf 1.281e+04 / 83
p0 1032 ± 0.8005
1300
1200
1100
1000
900
800

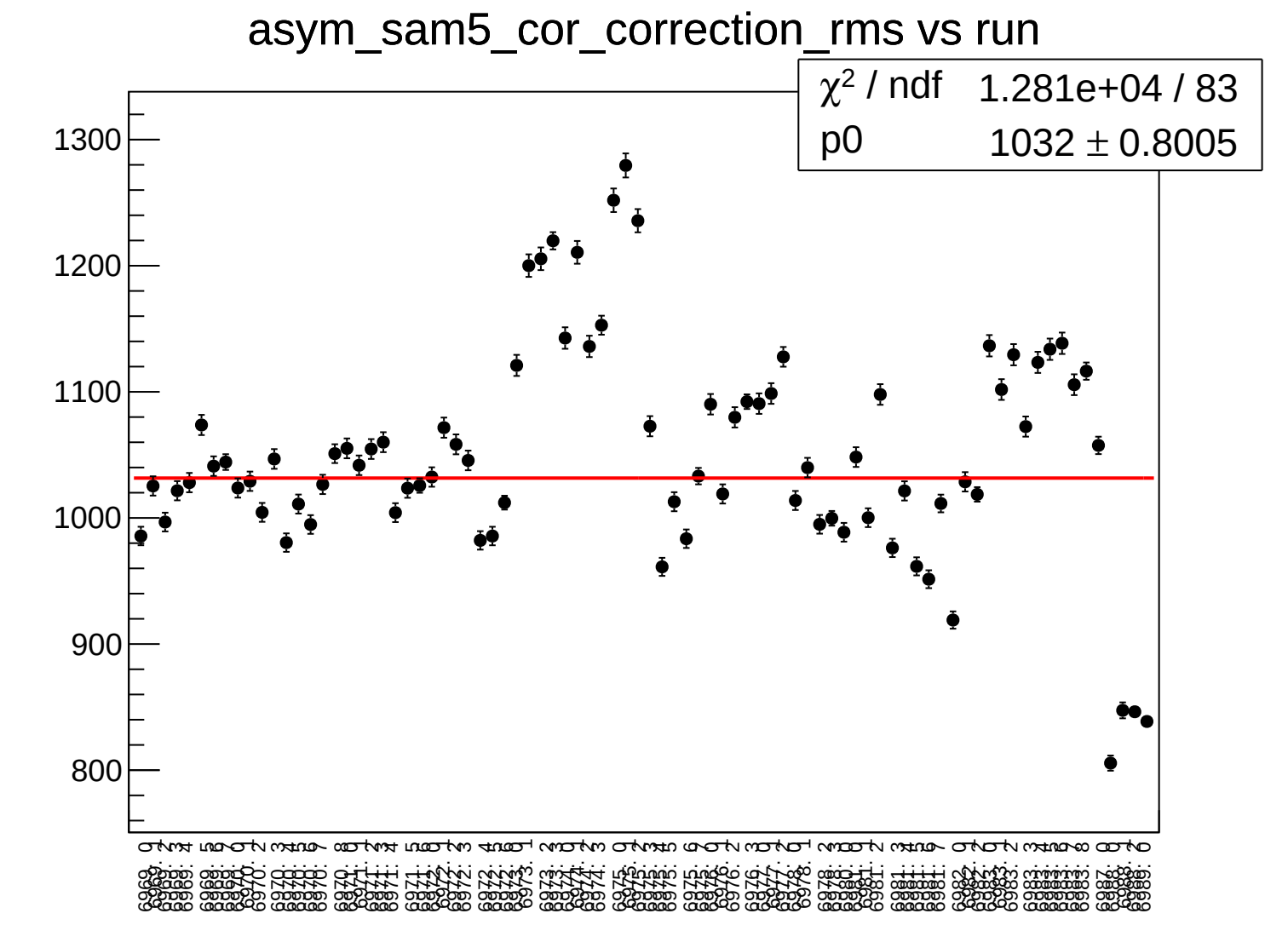

cor_asym_sam5_mean vs run
χ² / ndf 96.55 / 83
p0 355.1 ± 175.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 0.8819
Std Dev 53.46
3
2
1
0
−1
−2
−3

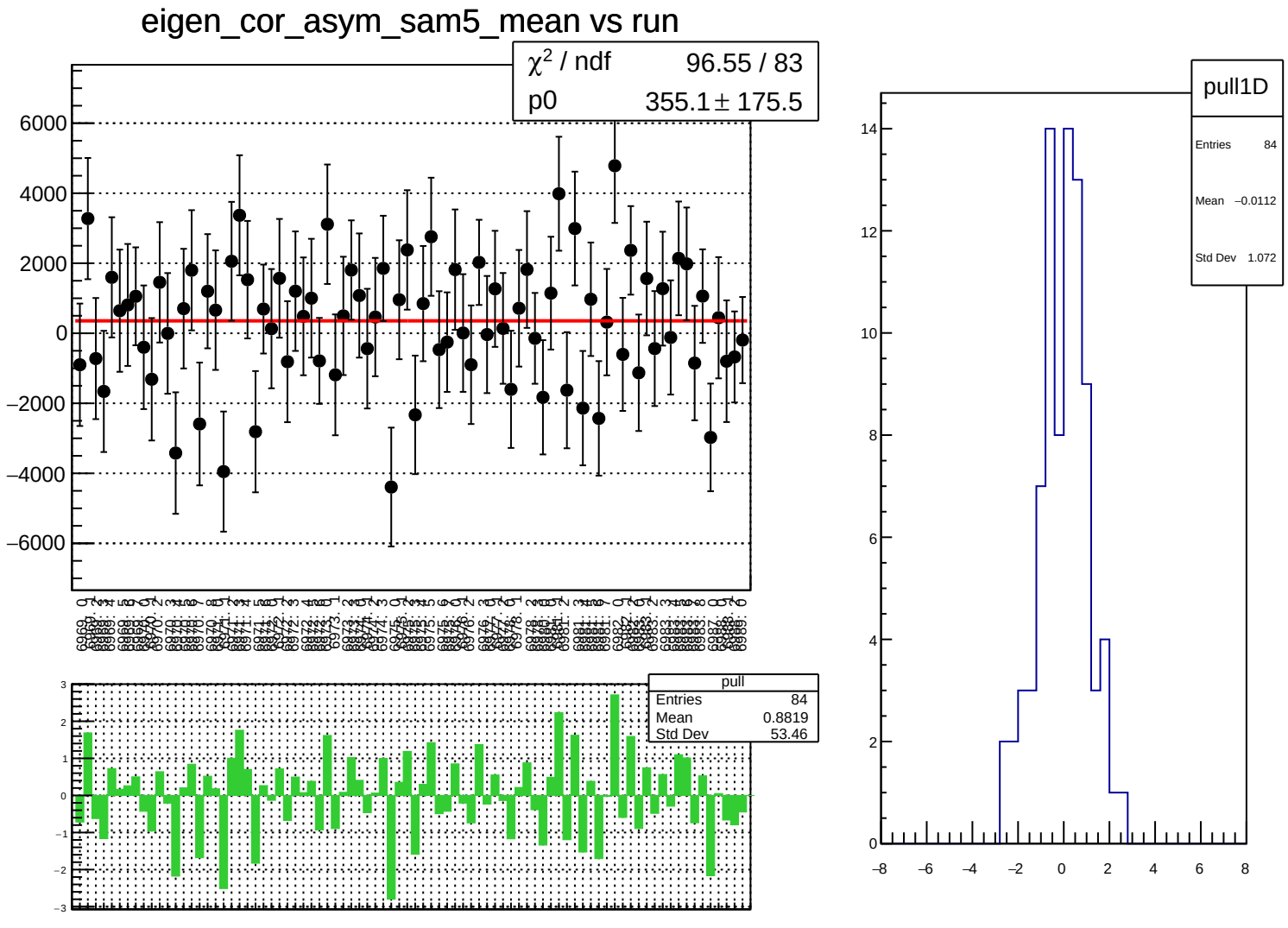

pull1D
Entries 84
Mean −0.0112
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

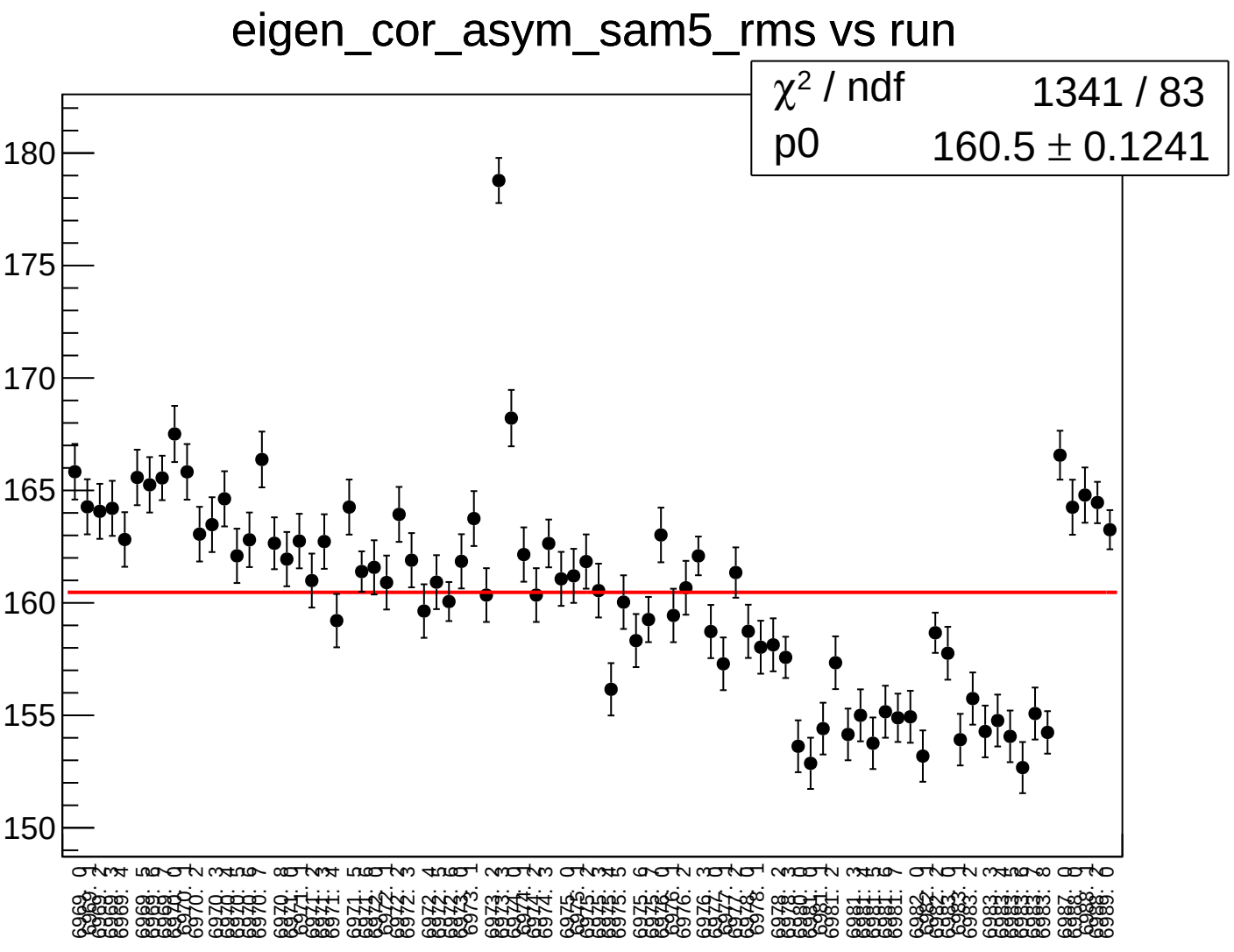

cor_asym_sam5_rms vs run
χ² / ndf 1341 / 83
p0 160.5 ± 0.1241
180
175
170
165
160
155
150

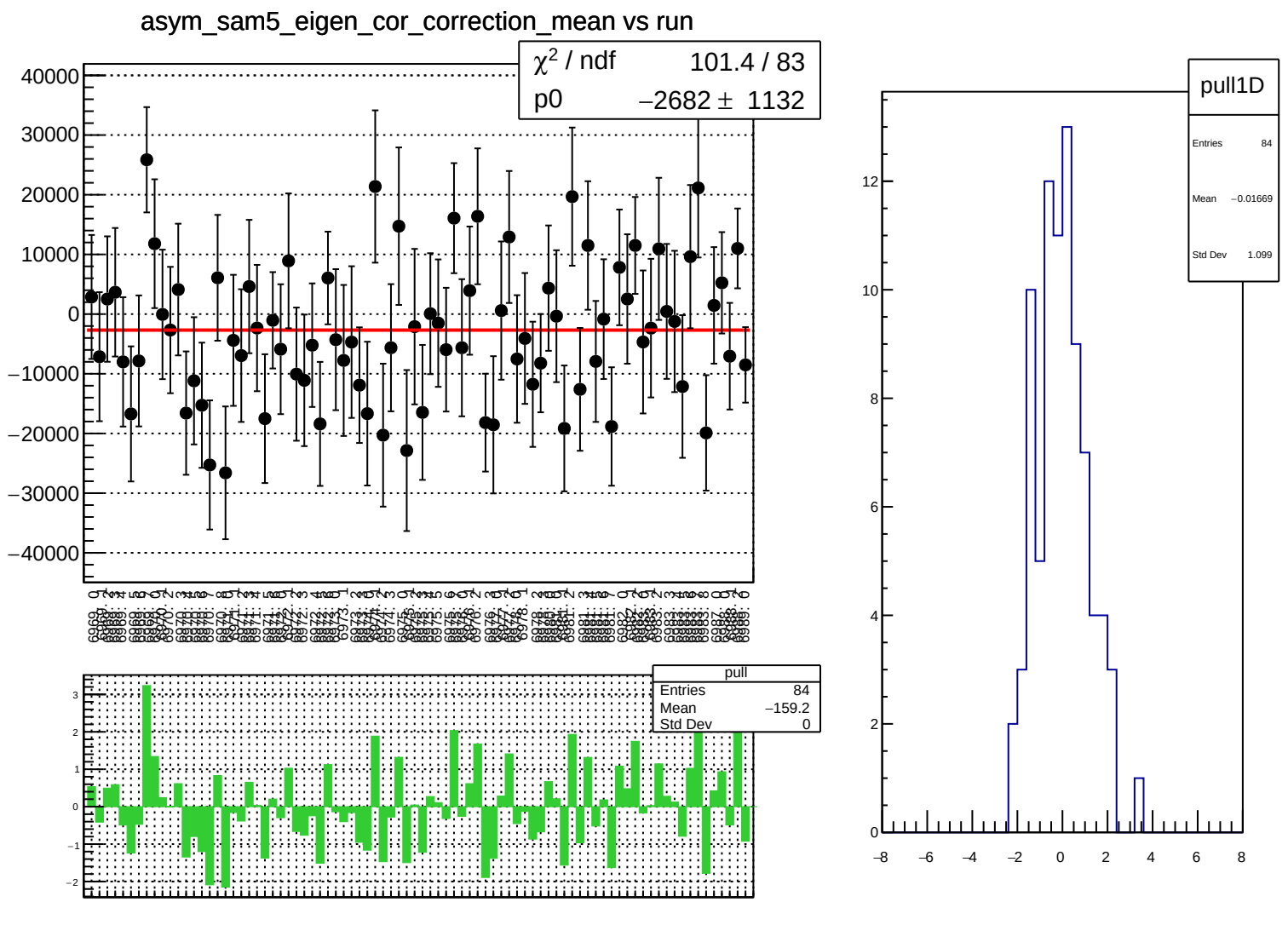

asym_sam5_cor_correction_mean vs run
χ² / ndf 101.4 / 83
p0 −2682 ± 1132
pull
Entries 84
Mean −159.2
Std Dev 0

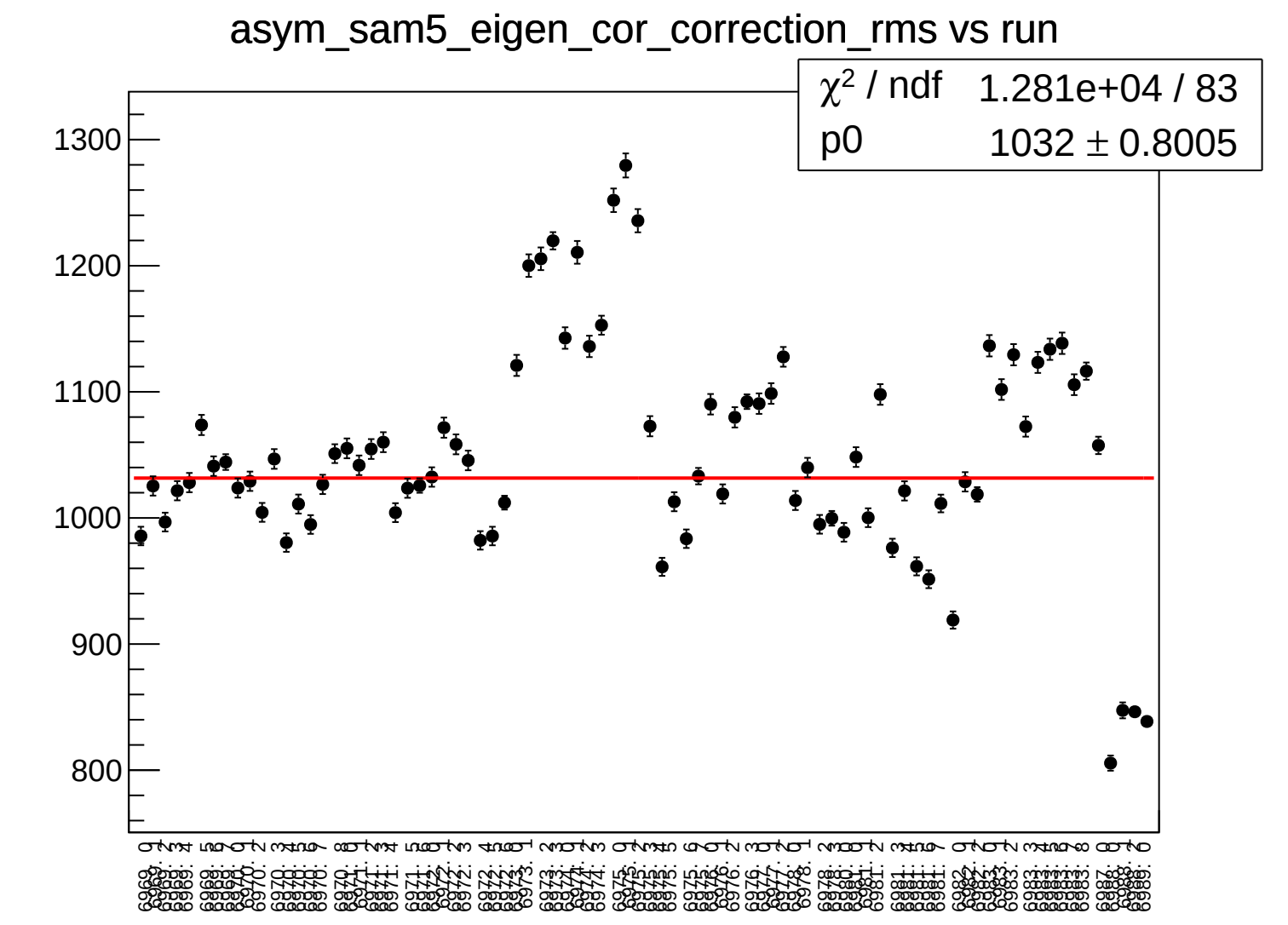

pull1D
Entries 84
Mean −0.01669
Std Dev 1.099

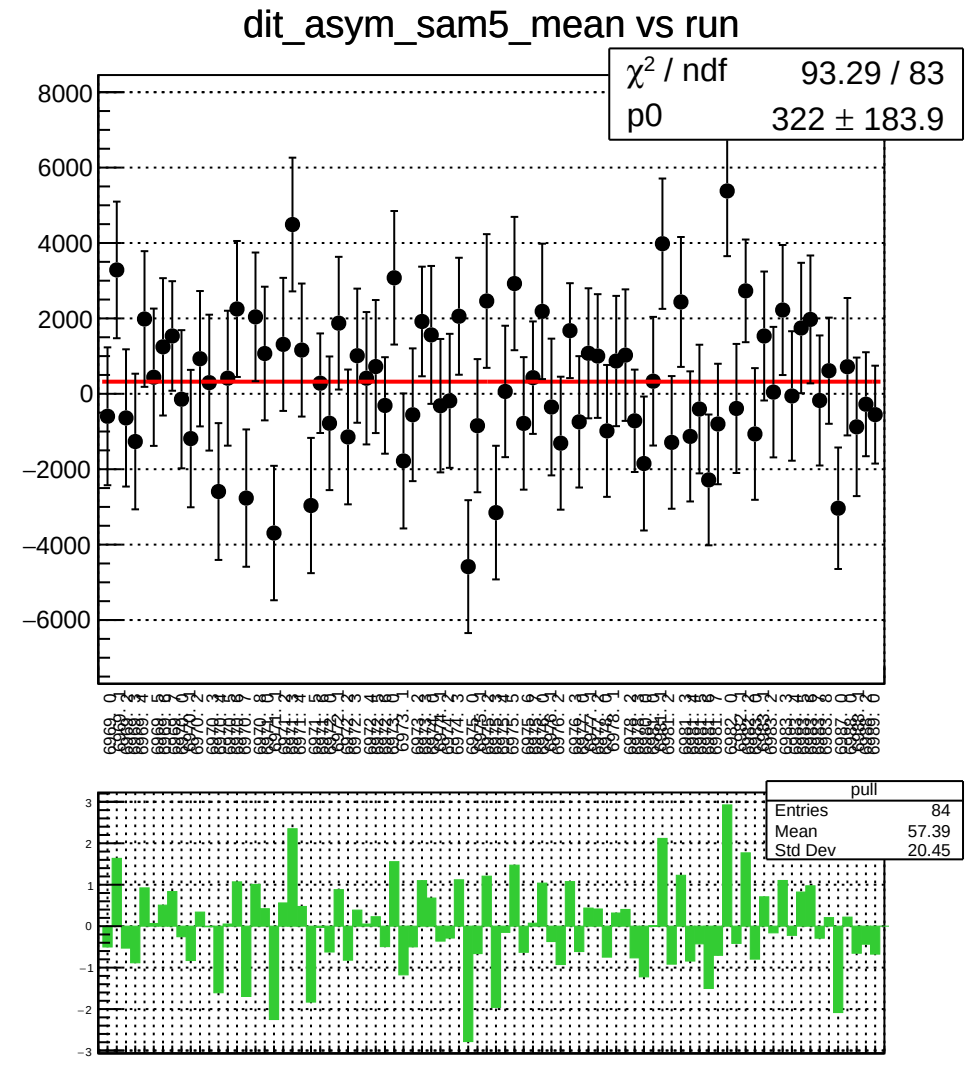

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.281e+04 / 83
p0 1032 ± 0.8005
1300
1200
1100
1000
900
800

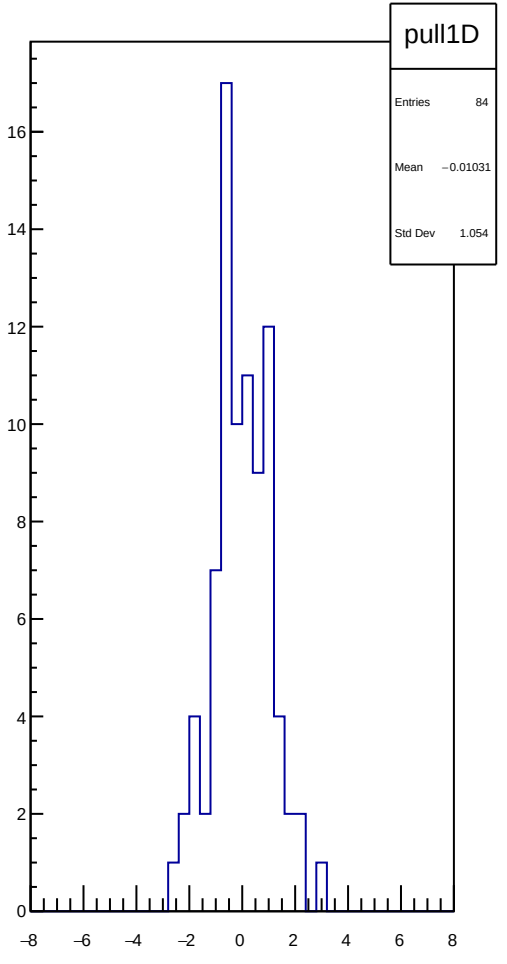

eigen_cor_asym_sam5_mean vs run
χ² / ndf 96.55 / 83
p0 355.1 ± 175.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 0.8819
Std Dev 53.46
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.0112
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

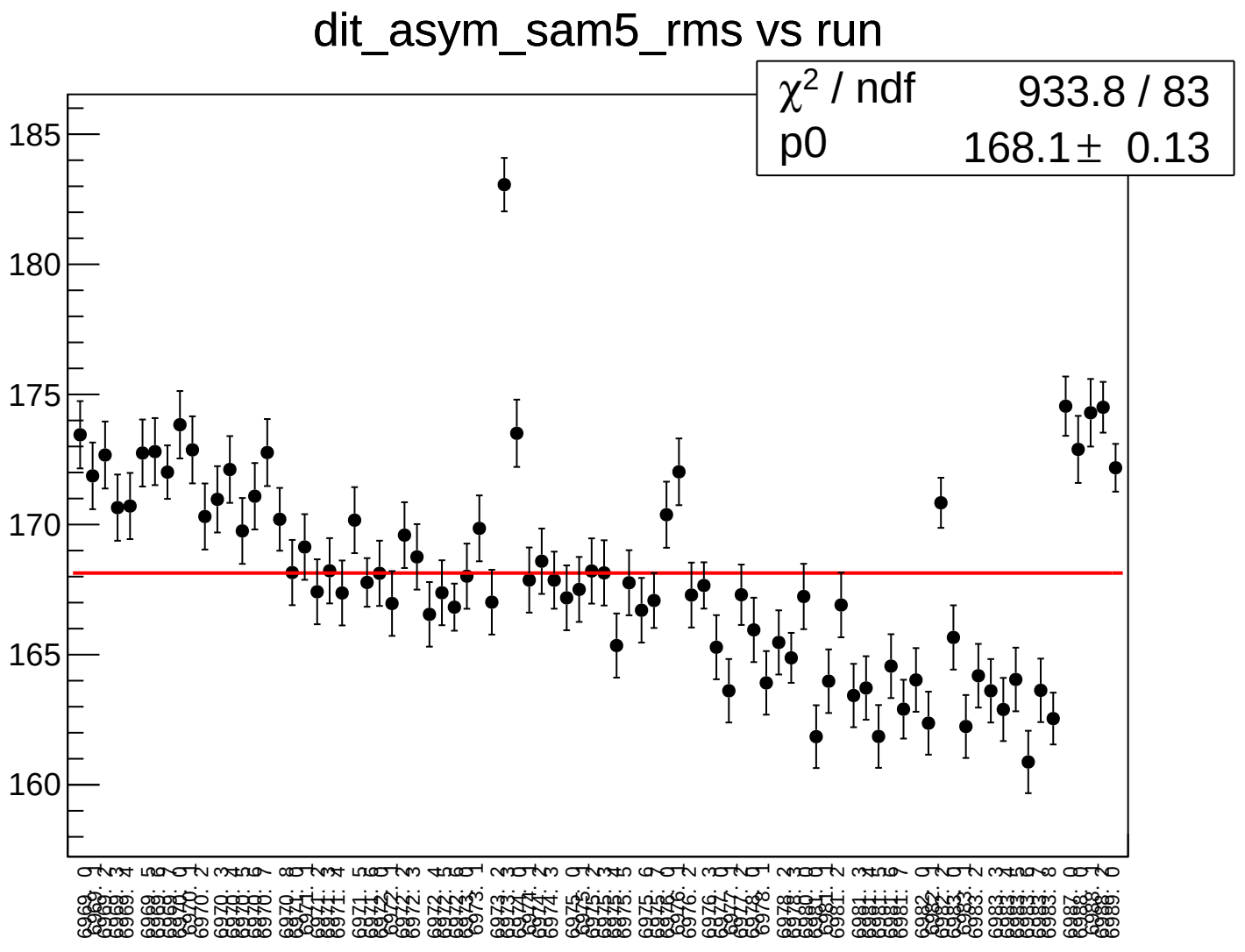

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1341 / 83
p0 160.5 ± 0.1241
180
175
170
165
160
155
150

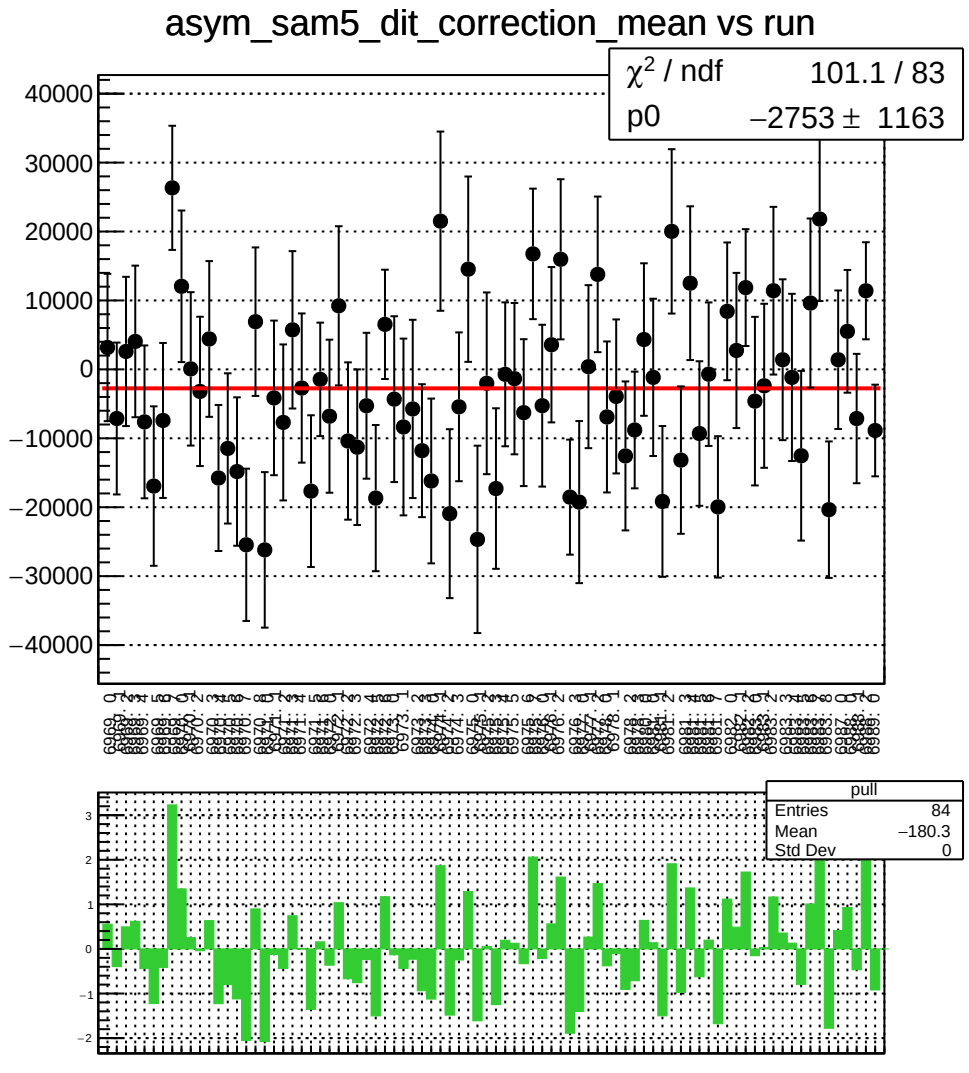

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 101.4 / 83
p0 −2682 ± 1132
pull
Entries 84
Mean −159.2
Std Dev 0
pull1D
Entries 84
Mean −0.01669
Std Dev 1.099

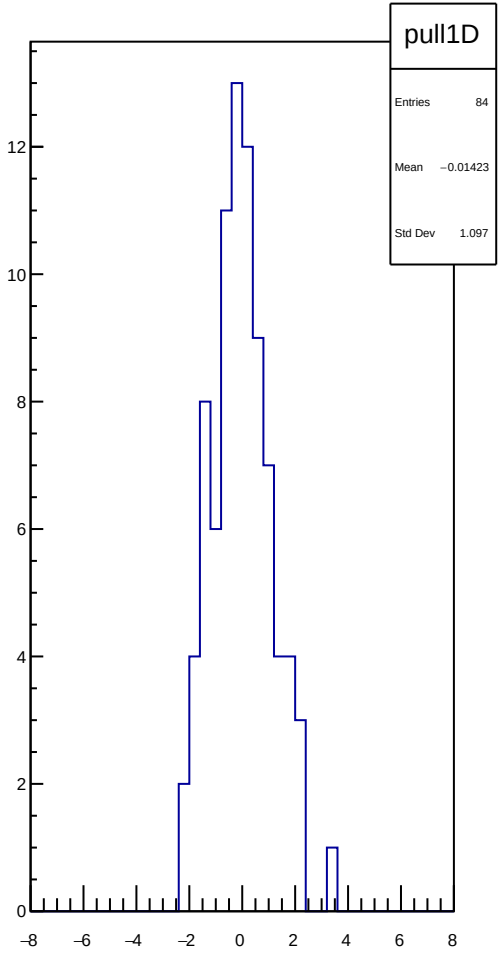

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1.281e+04 / 83
p0 1032 ± 0.8005
1300
1200
1100
1000
900
800

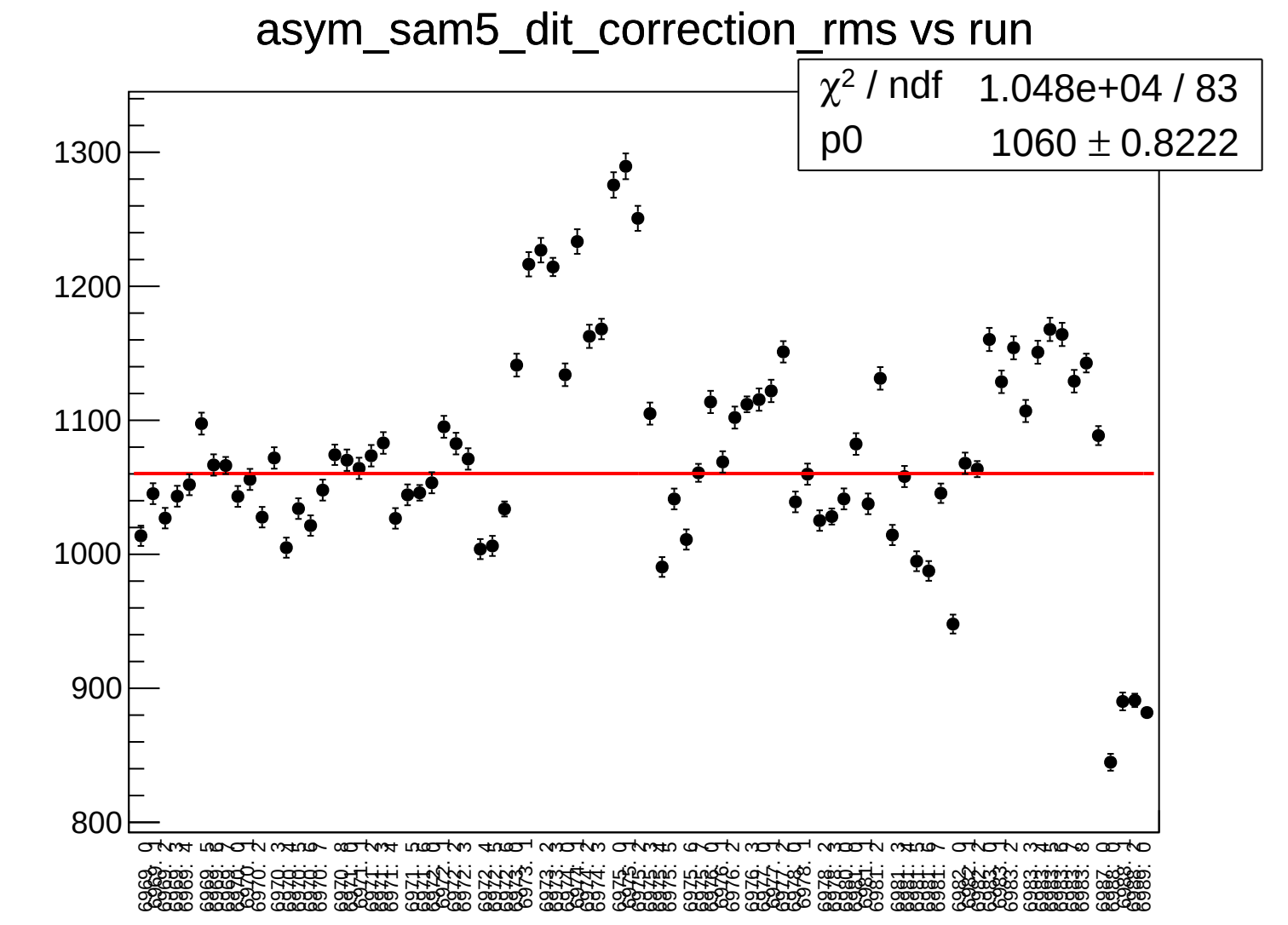

dit_asym_sam5_mean vs run
χ² / ndf 93.29 / 83
p0 322 ± 183.9
pull
Entries 84
Mean 57.39
Std Dev 20.45

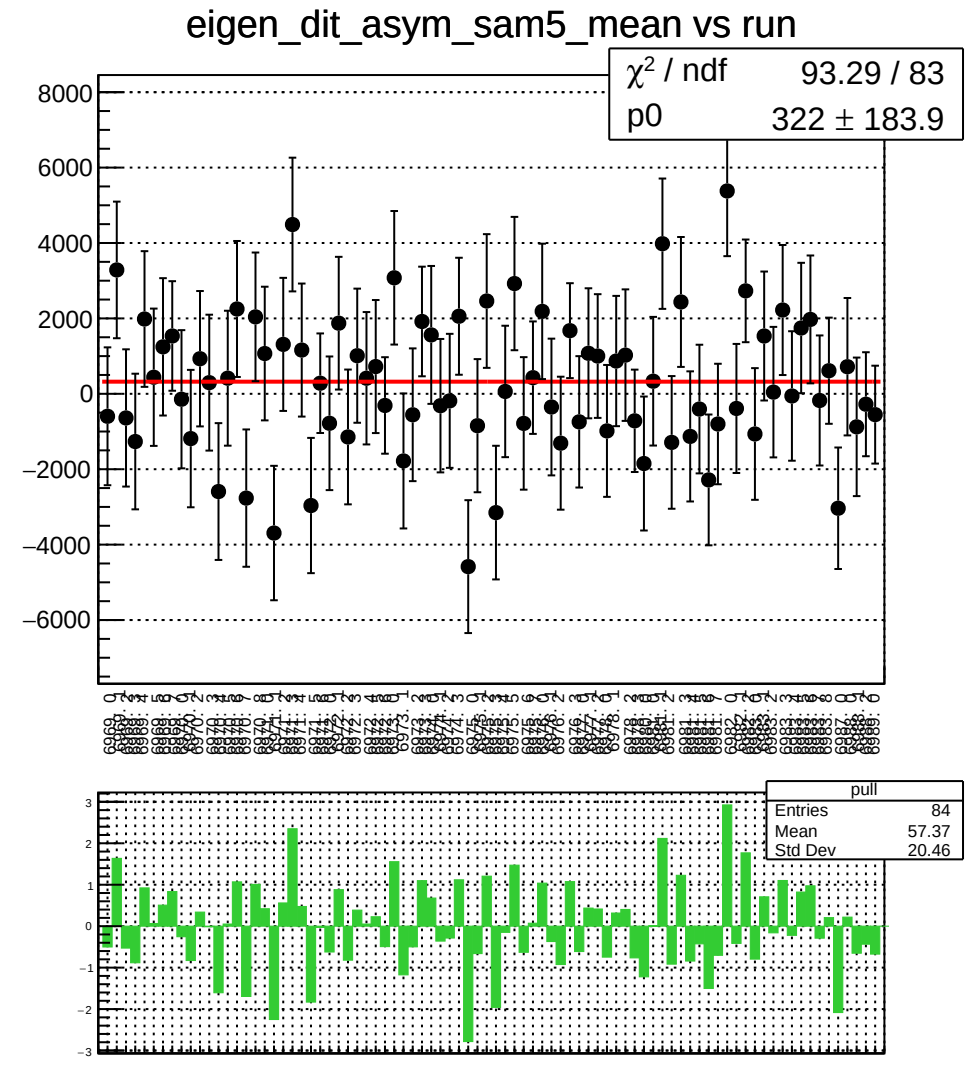

pull1D
Entries 84
Mean −0.01031
Std Dev 1.054

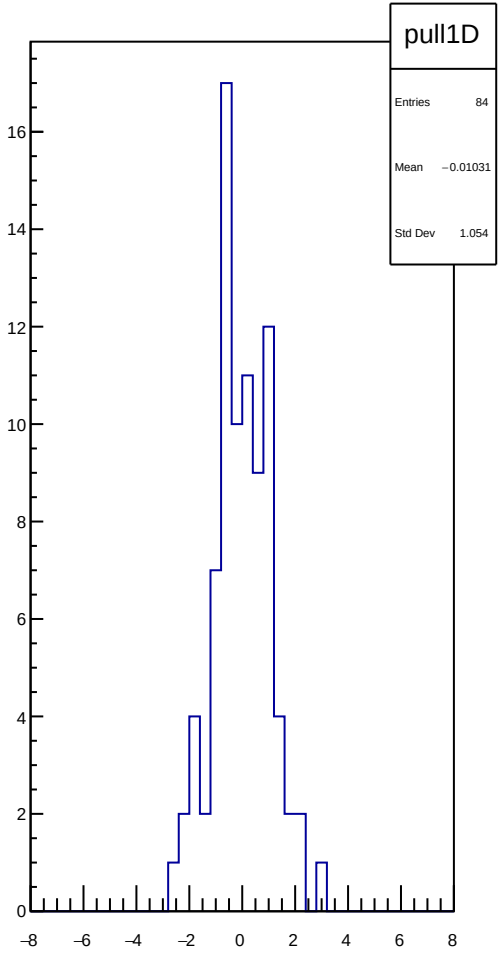

dit_asym_sam5_rms vs run
χ^2 / ndf 933.8 / 83
p0 168.1 ± 0.13
185
180
175
170
165
160

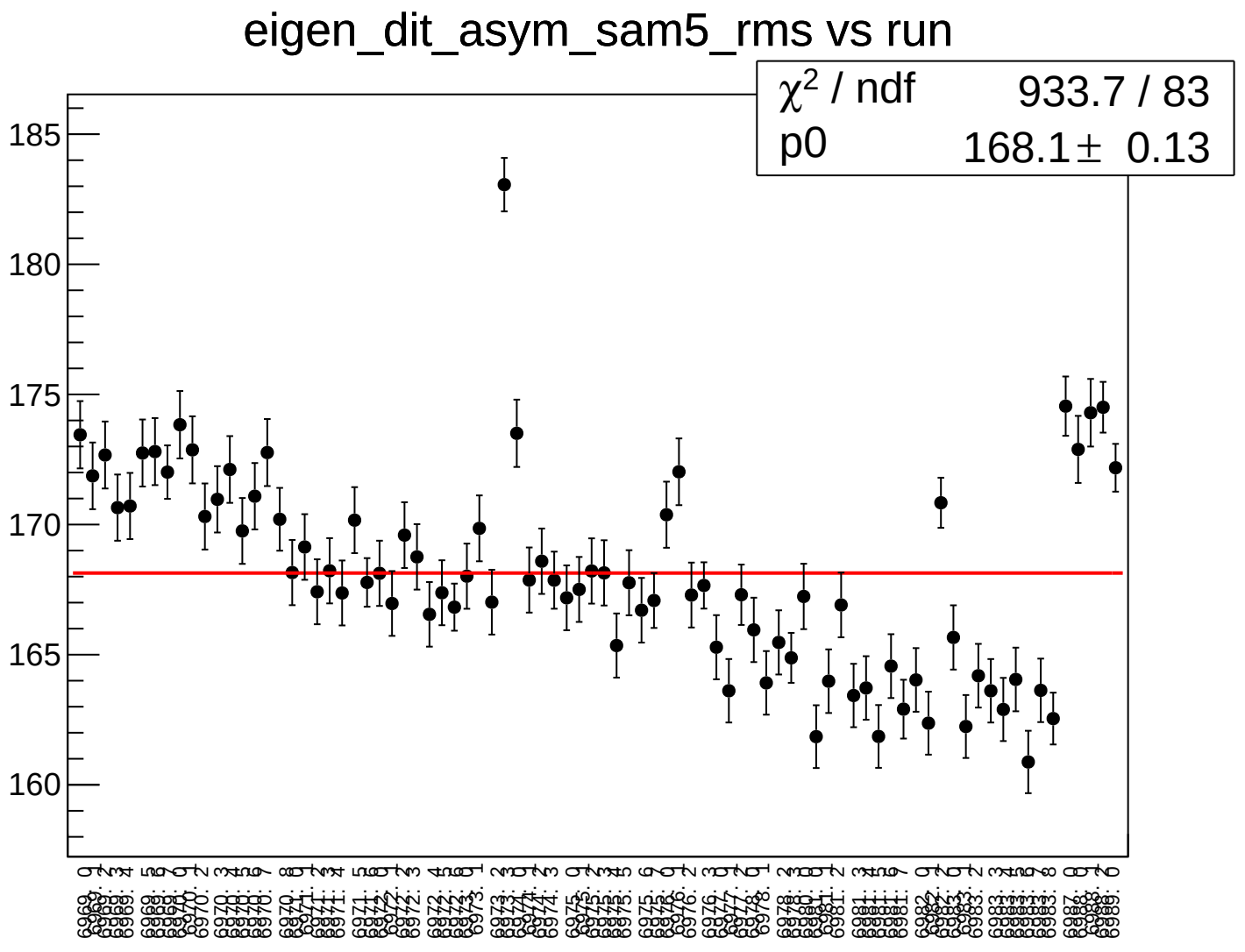

asym_sam5_dit_correction_mean vs run
χ² / ndf 101.1 / 83
p0 −2753 ± 1163
pull
Entries 84
Mean −180.3
Std Dev 0

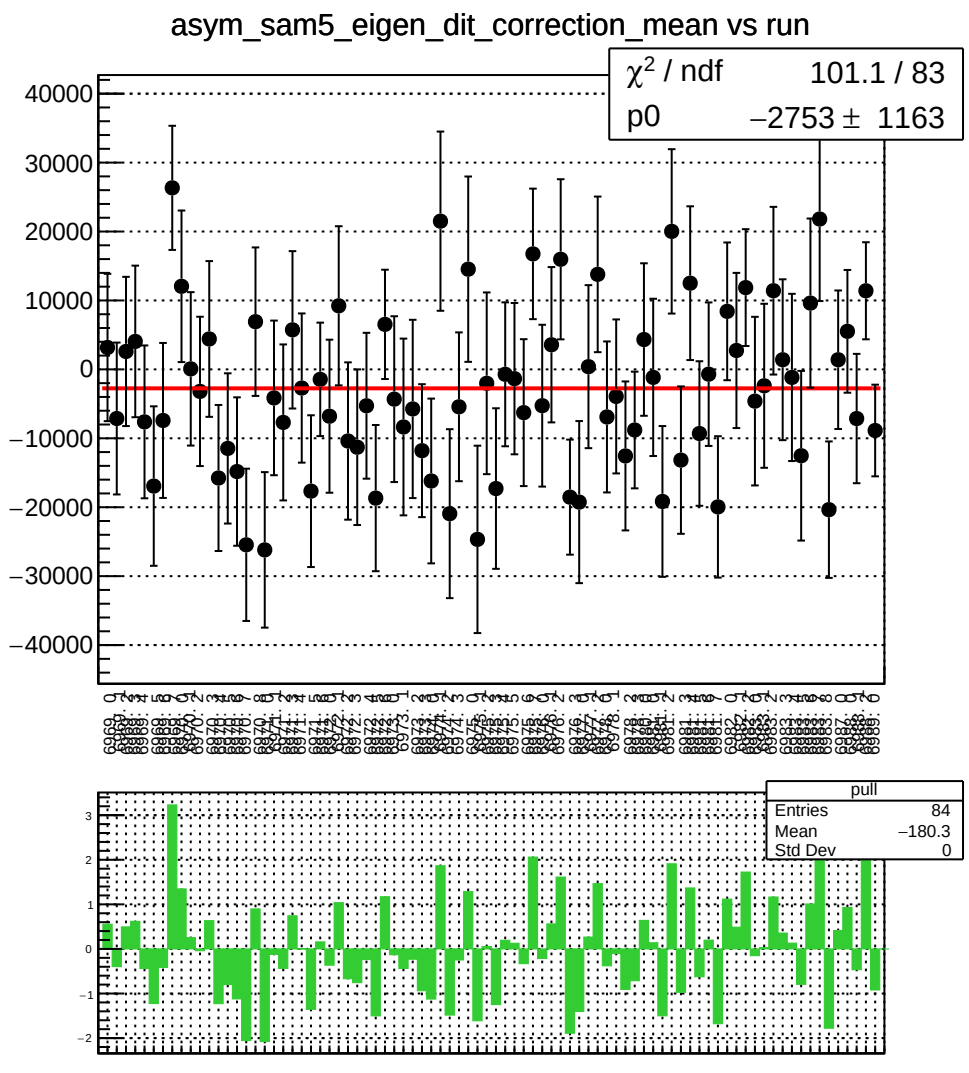

pull1D
Entries 84
Mean −0.01423
Std Dev 1.097

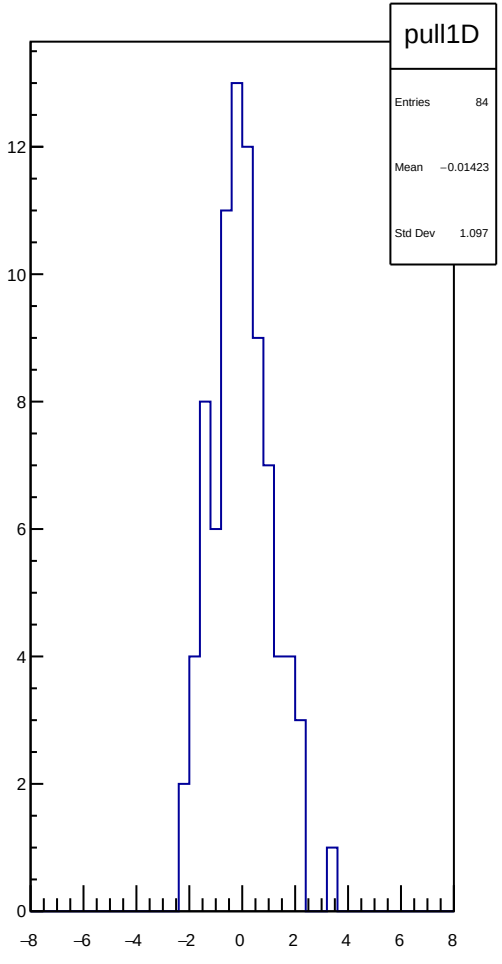

asym_sam5_dit_correction_rms vs run
χ² / ndf 1.048e+04 / 83
p0 1060 ± 0.8222
1300
1200
1100
1000
900
800

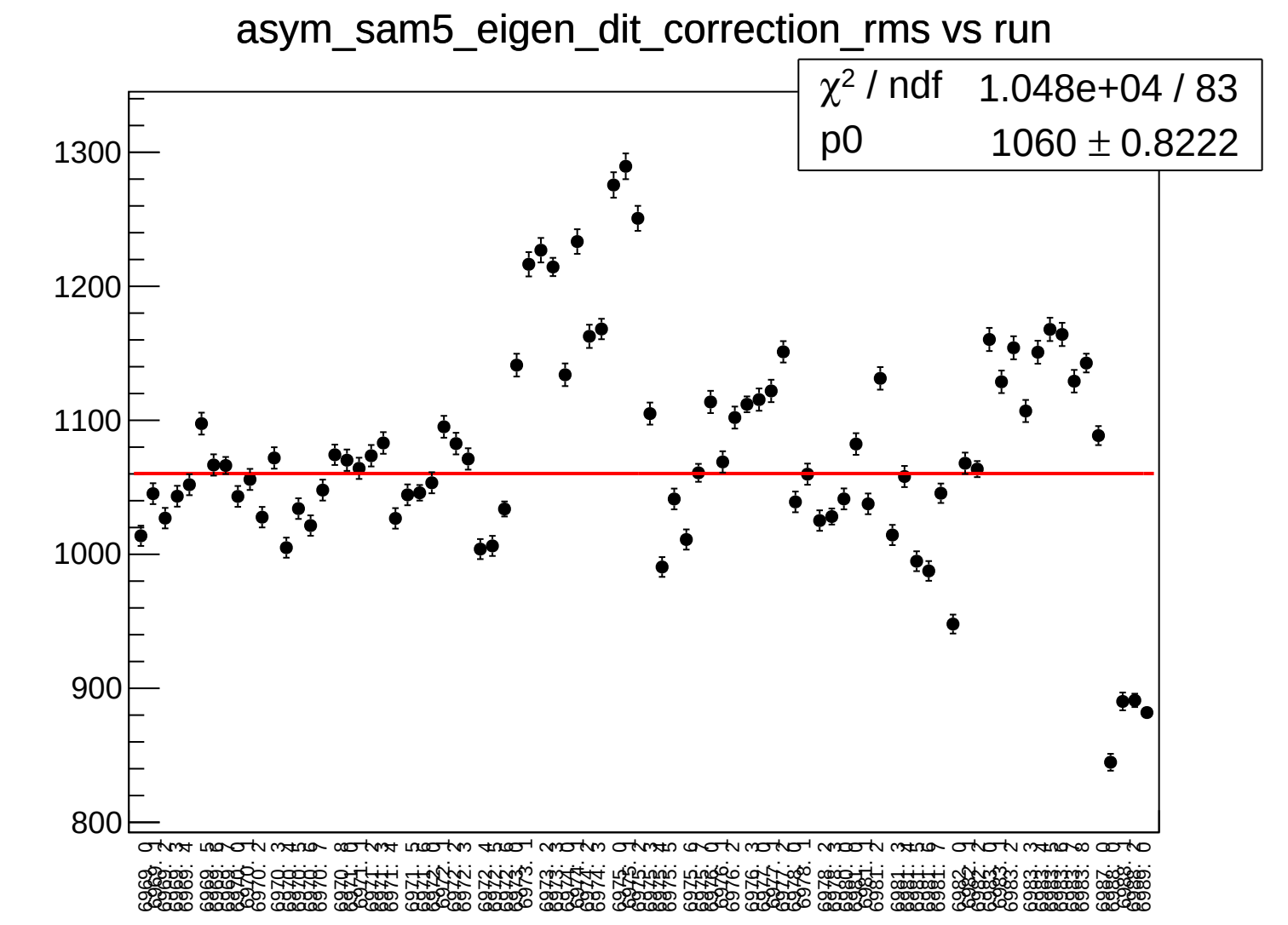

eigen_dit_asym_sam5_mean vs run
χ² / ndf 93.29 / 83
p0 322 ± 183.9
pull
Entries 84
Mean 57.37
Std Dev 20.46

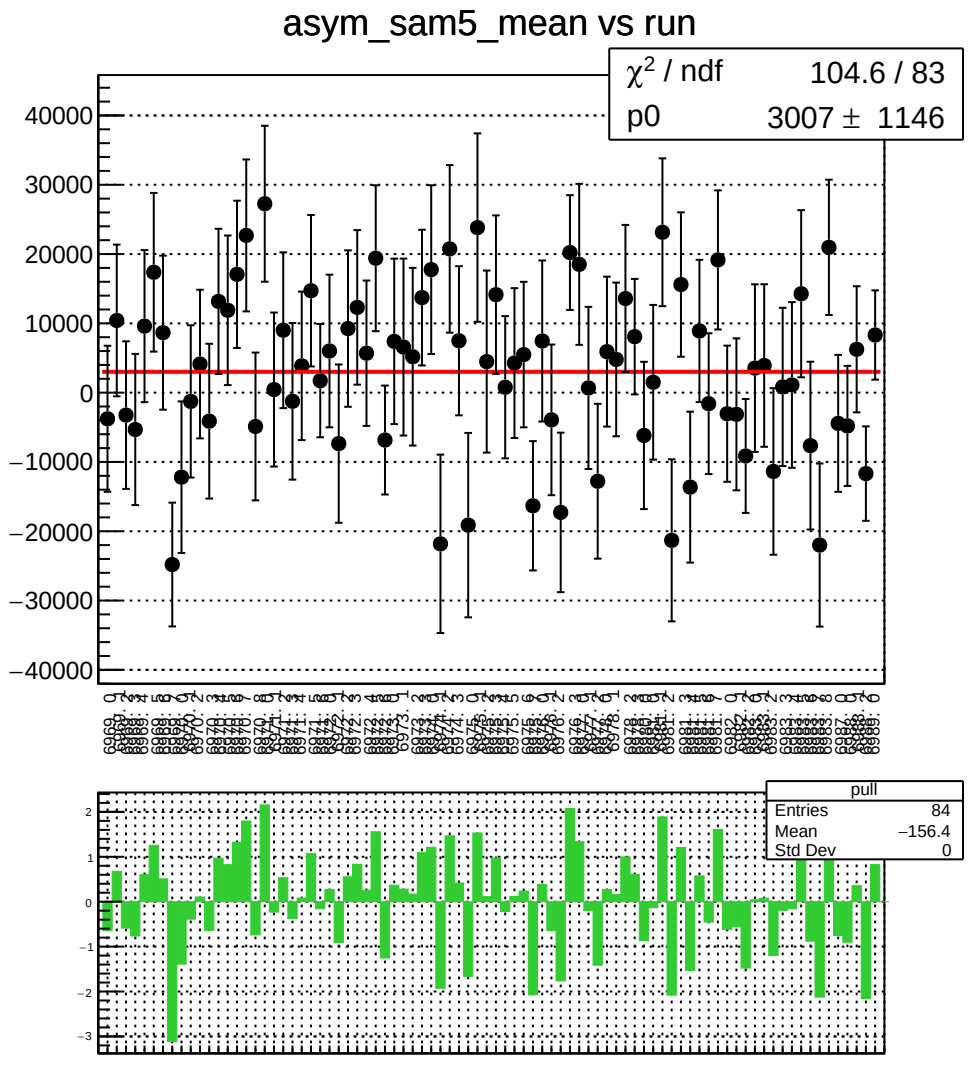

pull1D
Entries 84
Mean −0.01031
Std Dev 1.054

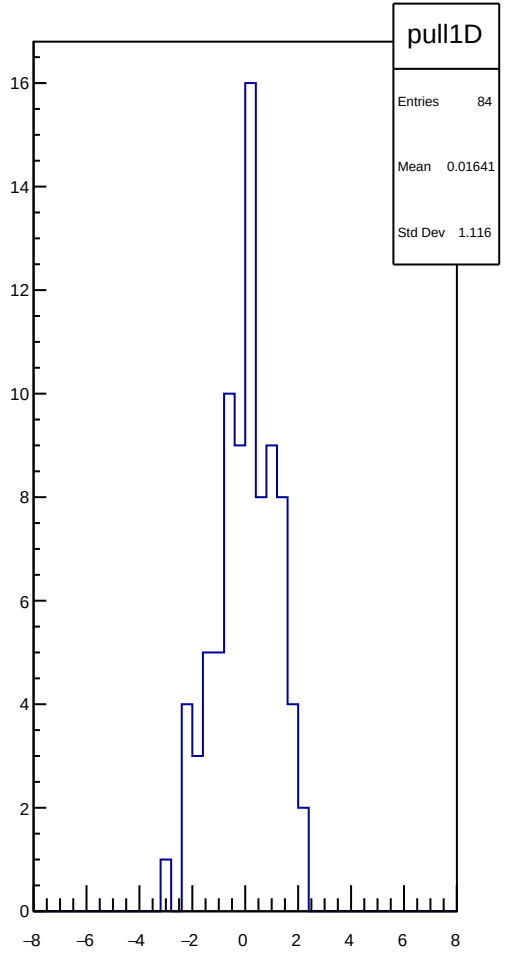

eigen_dit_asym_sam5_rms vs run
χ^2 / ndf 933.7 / 83
p0 168.1 ± 0.13
185
180
175
170
165
160

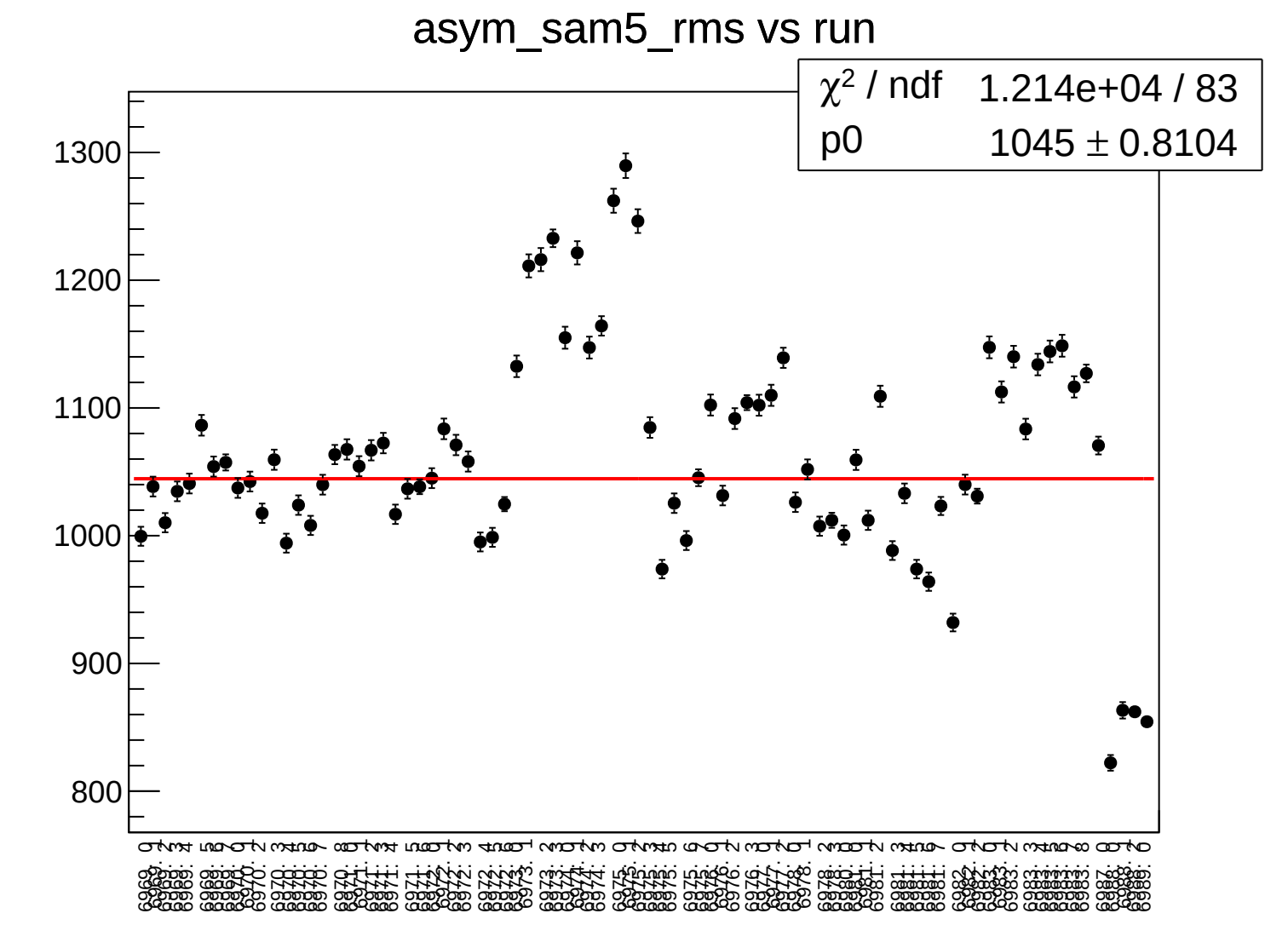

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 101.1 / 83
p0 −2753 ± 1163
pull
Entries 84
Mean −180.3
Std Dev 0

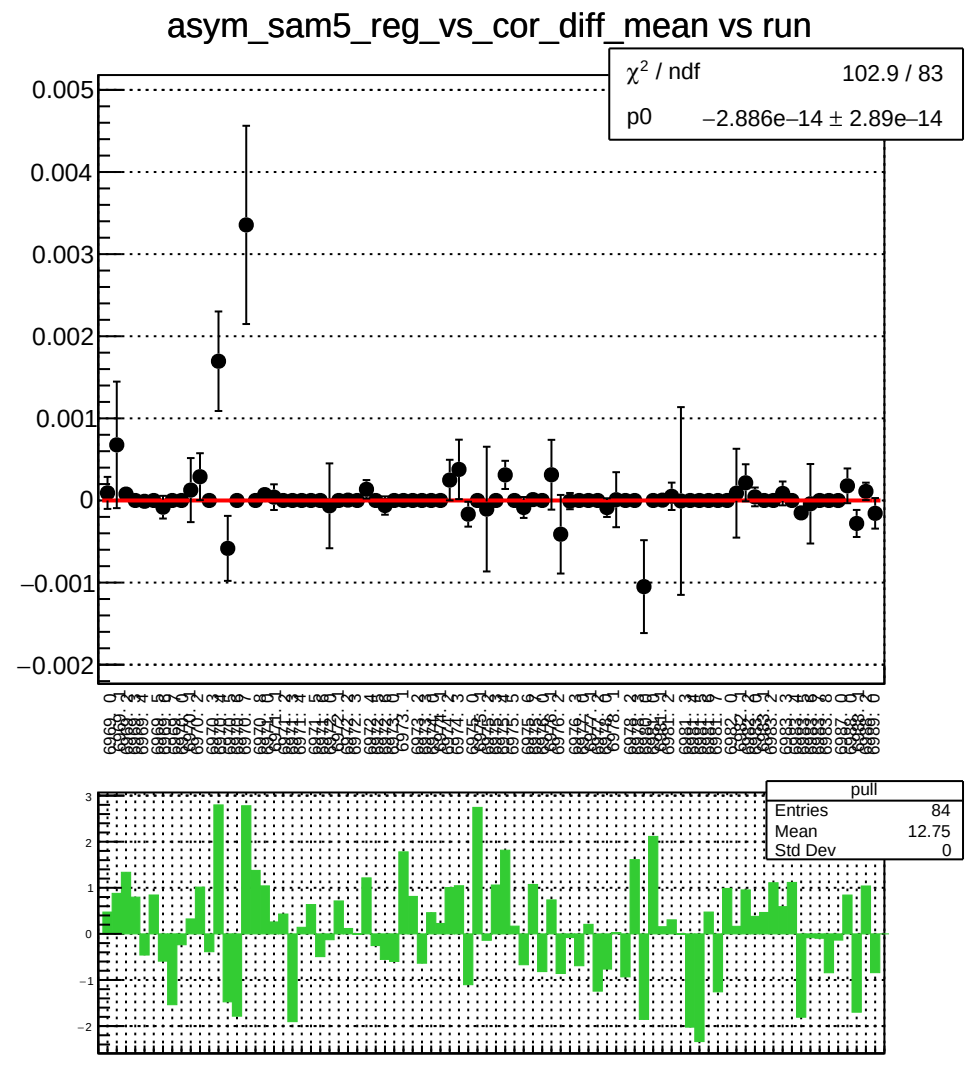

pull1D
Entries 84
Mean −0.01423
Std Dev 1.097

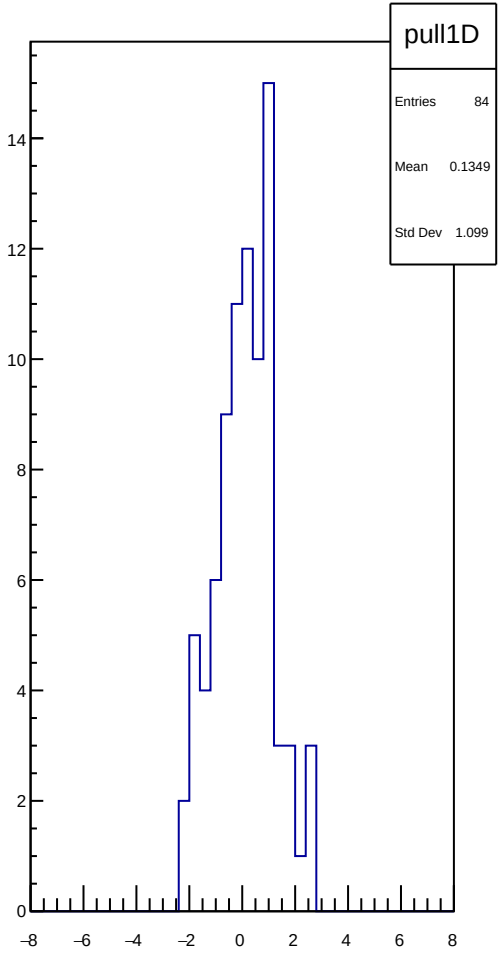

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.048e+04 / 83
p0 1060 ± 0.8222
1300
1200
1100
1000
900
800

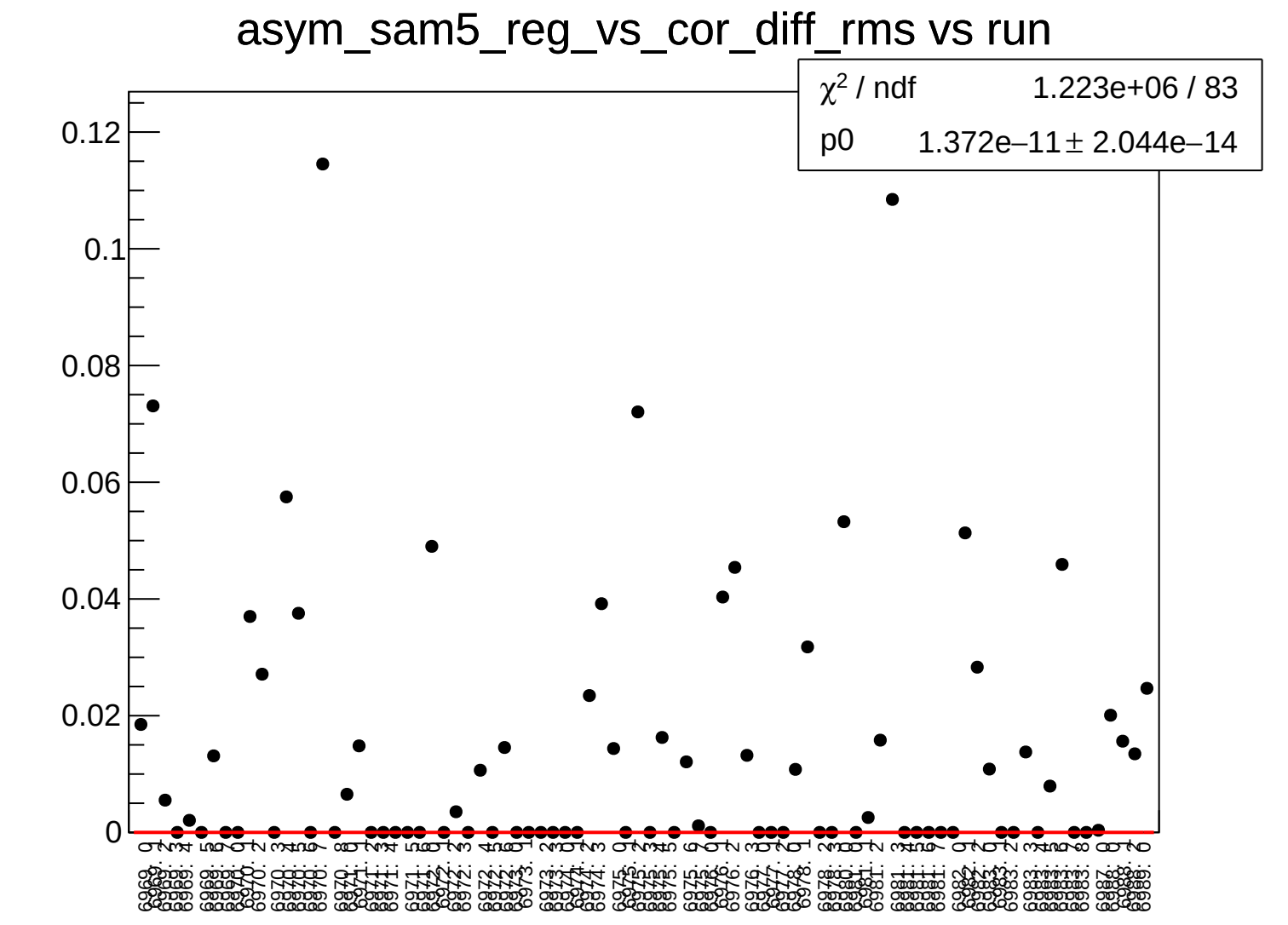

asym_sam5_mean vs run
χ² / ndf 104.6 / 83
p0 3007 ± 1146
pull
Entries 84
Mean −156.4
Std Dev 0

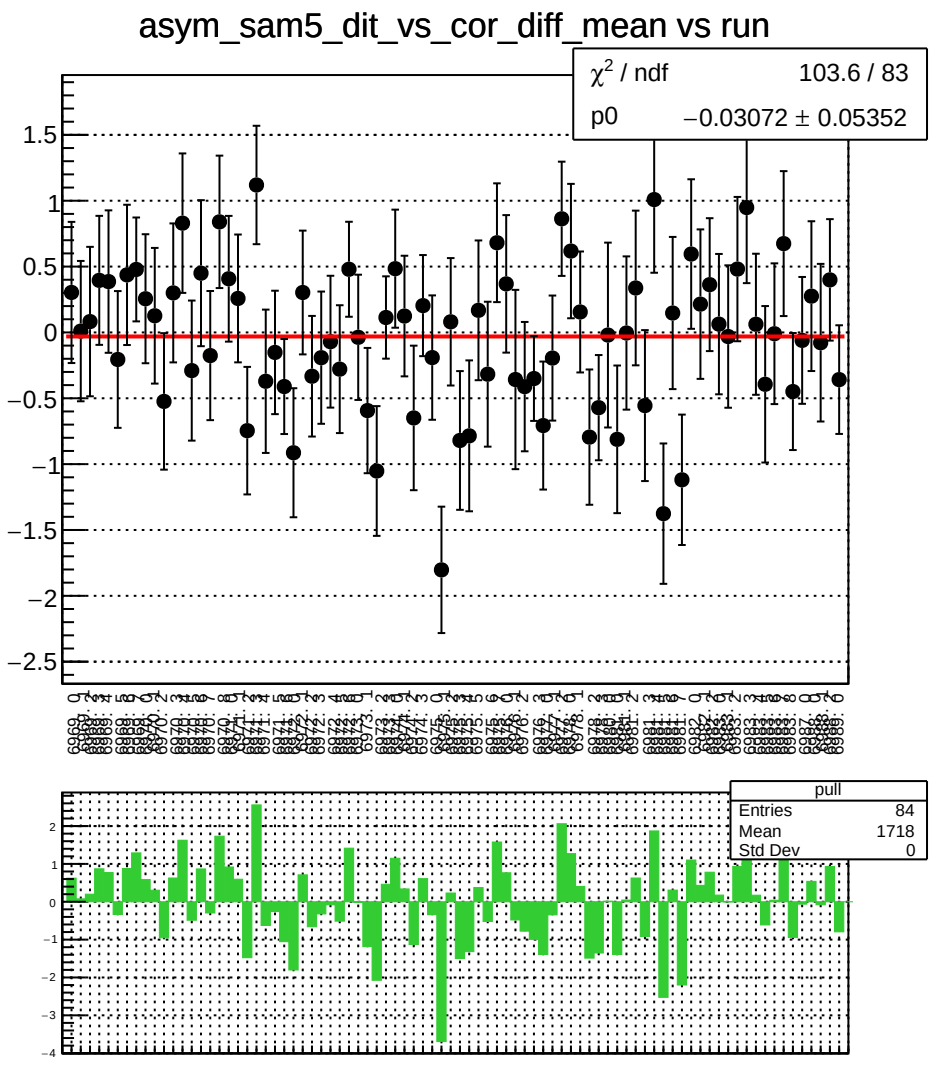

pull1D
Entries 84
Mean 0.01641
Std Dev 1.116

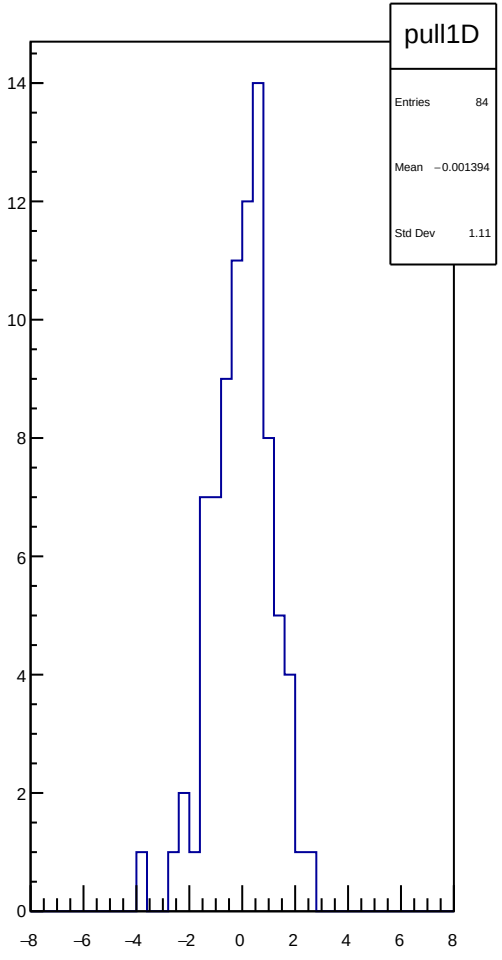

asym_sam5_rms vs run
χ² / ndf 1.214e+04 / 83
p0 1045 ± 0.8104
1300
1200
1100
1000
900
800

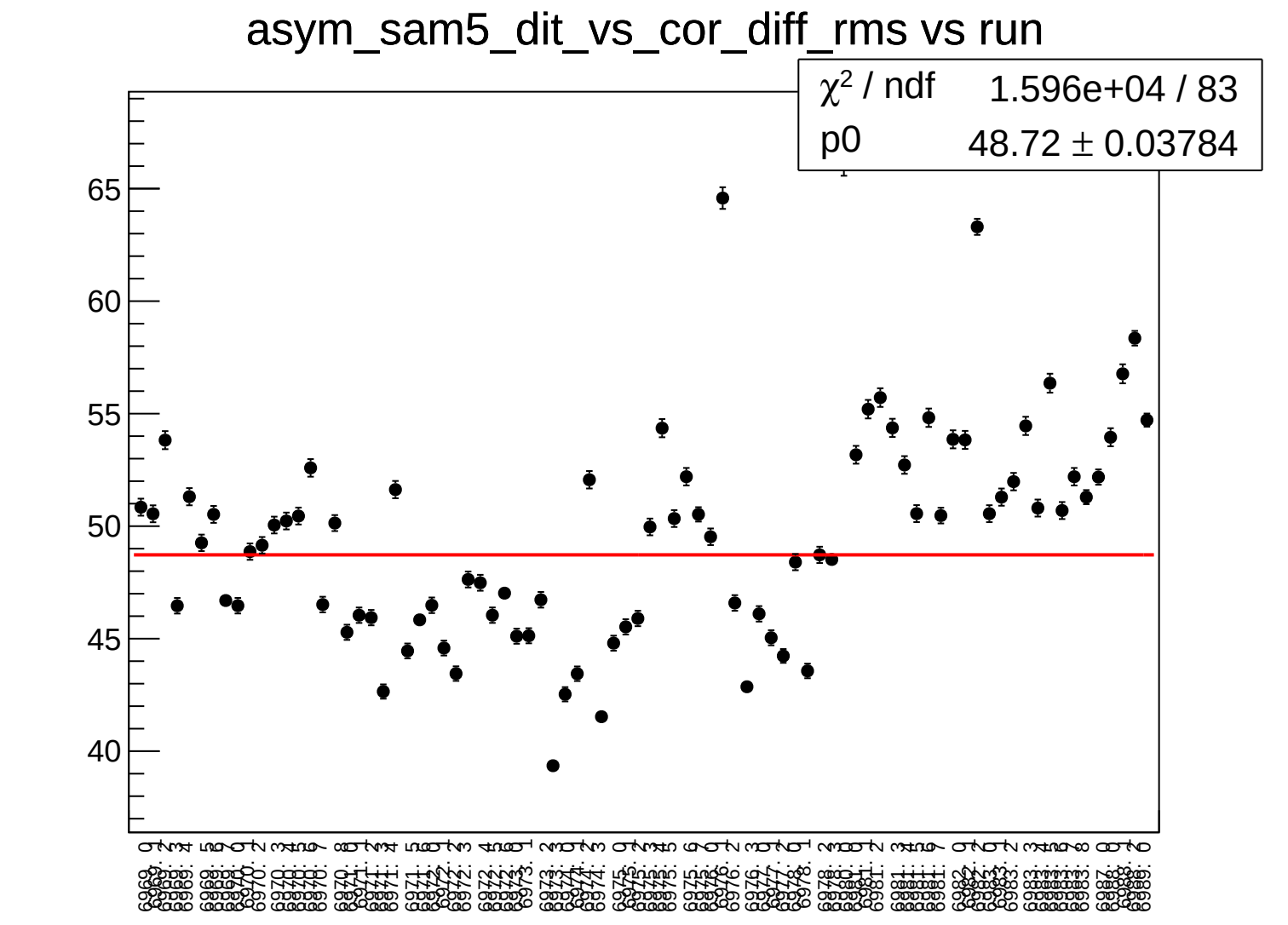

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 83
p0 −2.886e−14 ± 2.89e−14
pull
Entries 84
Mean 12.75
Std Dev 0

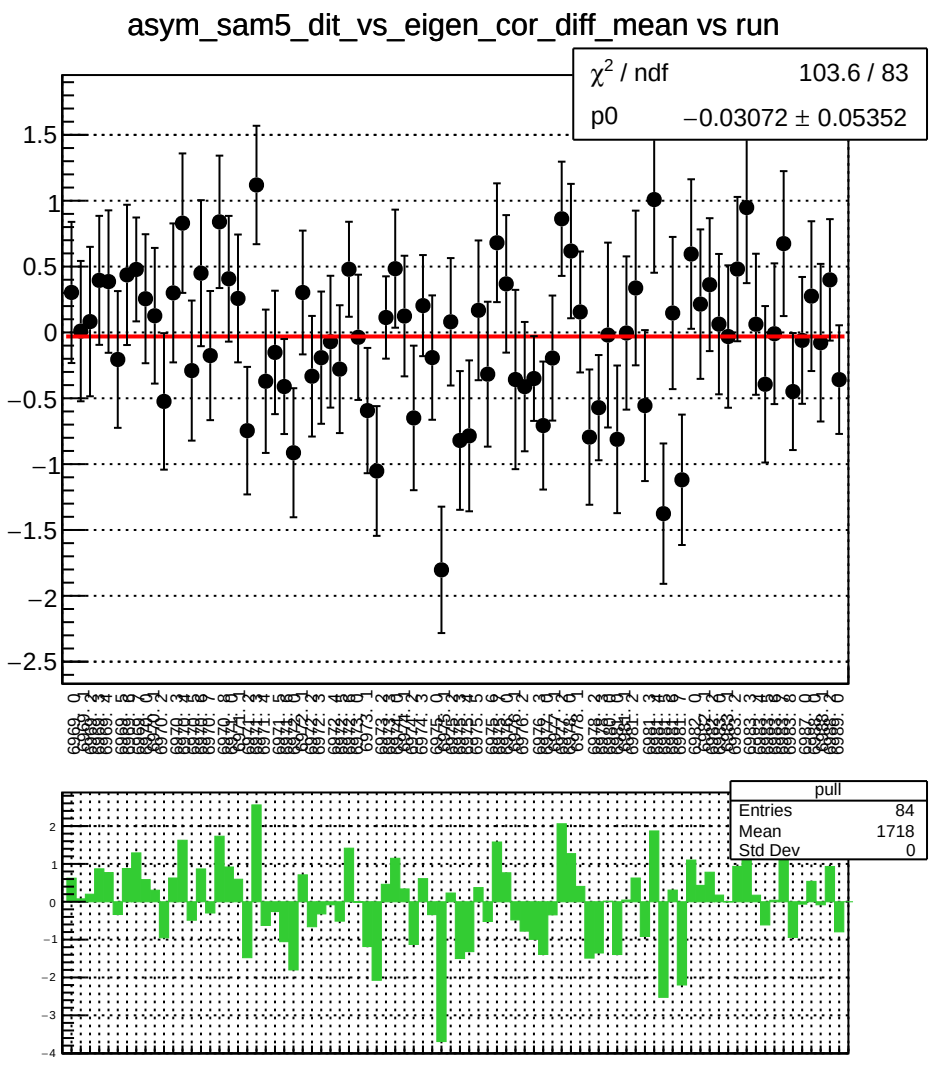

pull1D
Entries 84
Mean 0.1349
Std Dev 1.099

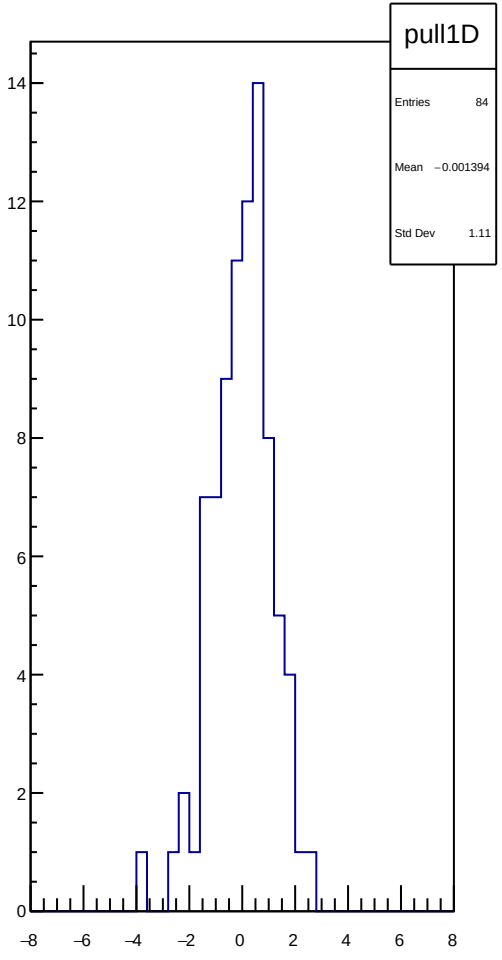

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.223e+06 / 83
p0 1.372e−11 ± 2.044e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

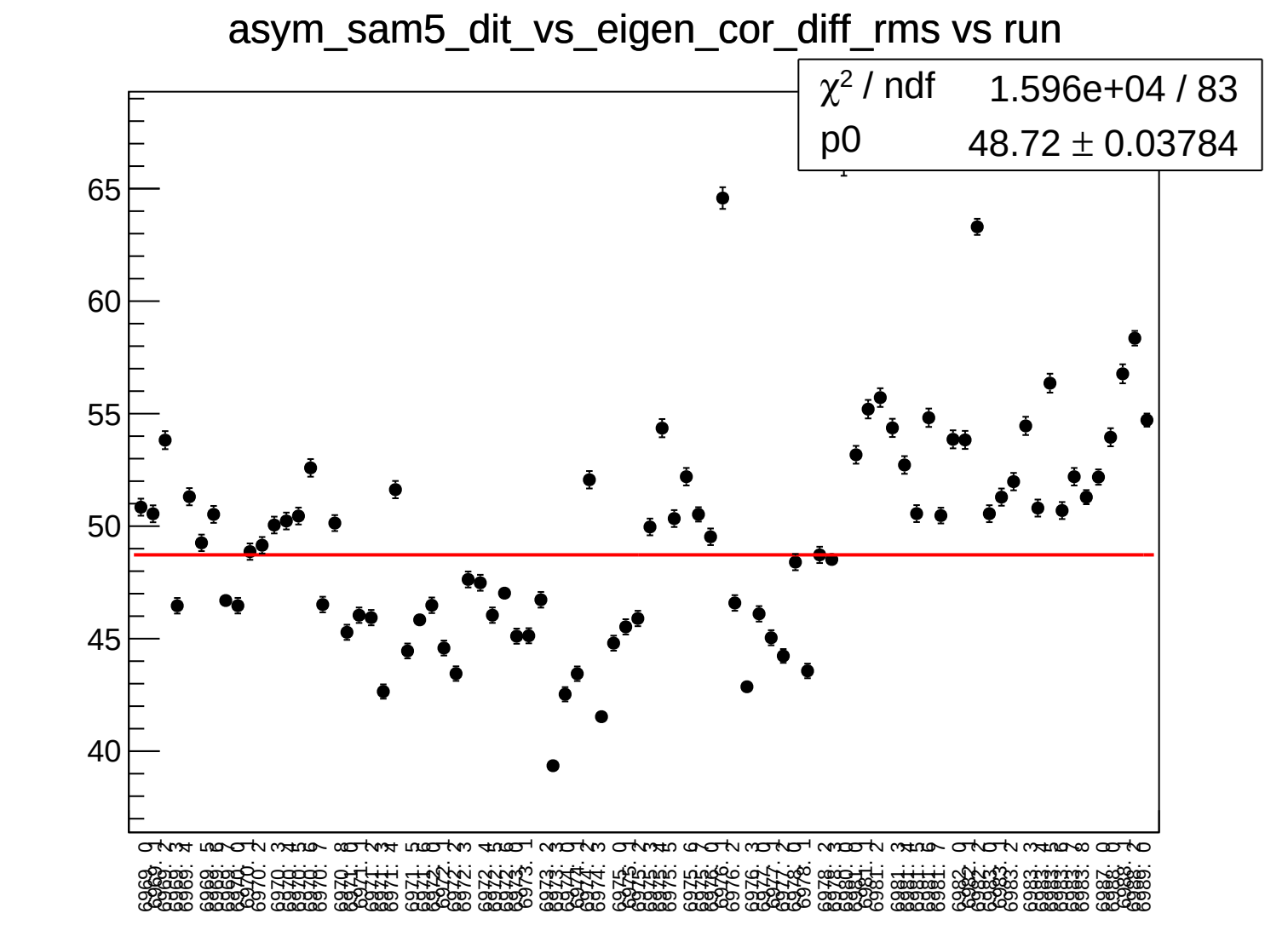

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 83
p0 −0.03072 ± 0.05352
pull
Entries 84
Mean 1718
Std Dev 0

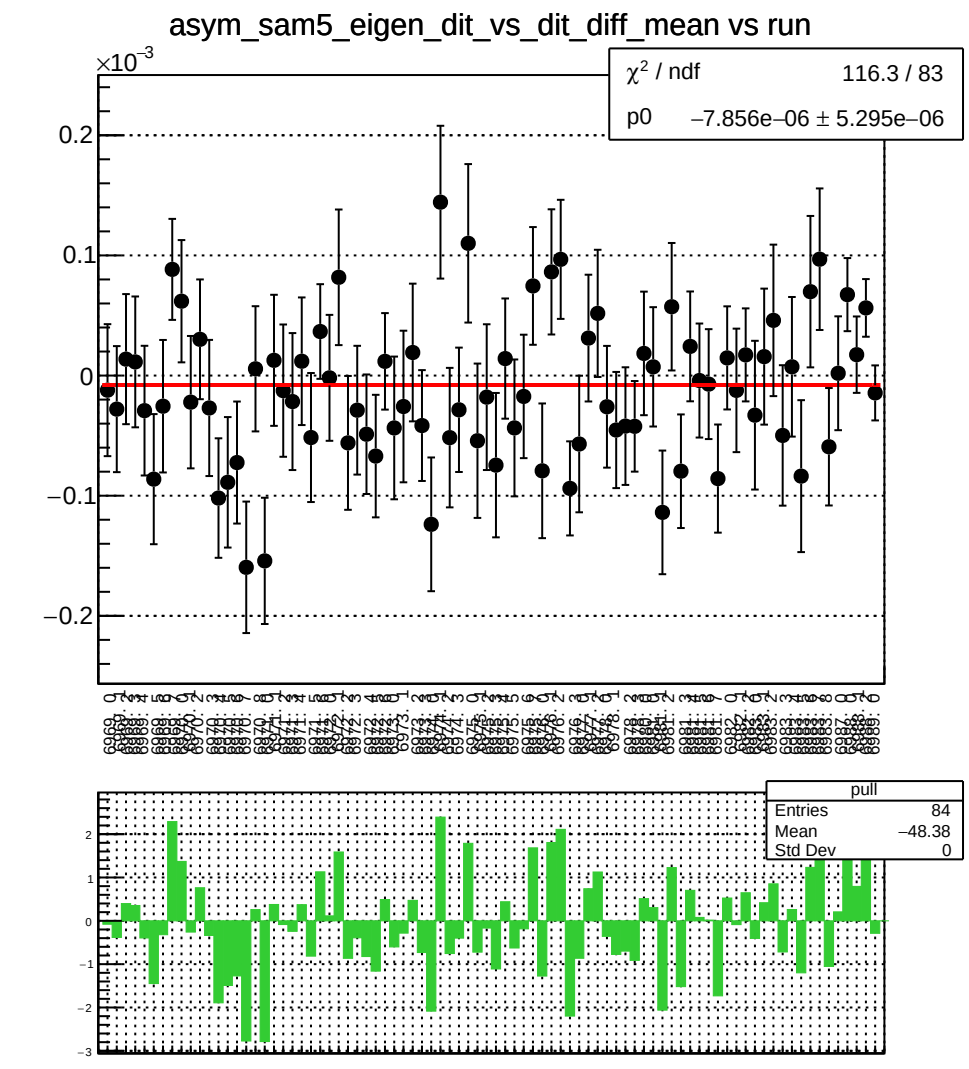

pull1D
Entries 84
Mean −0.001394
Std Dev 1.11

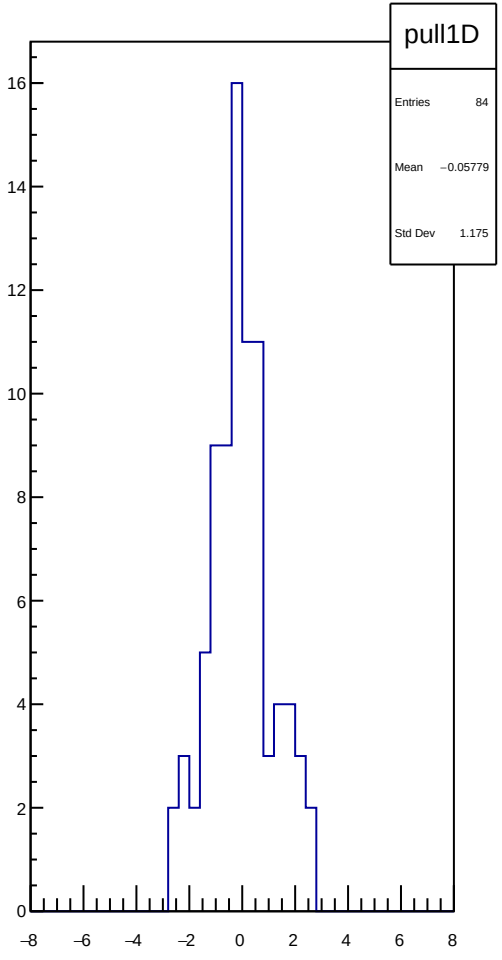

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 1.596e+04 / 83
p0 48.72 ± 0.03784
65
60
55
50
45
40

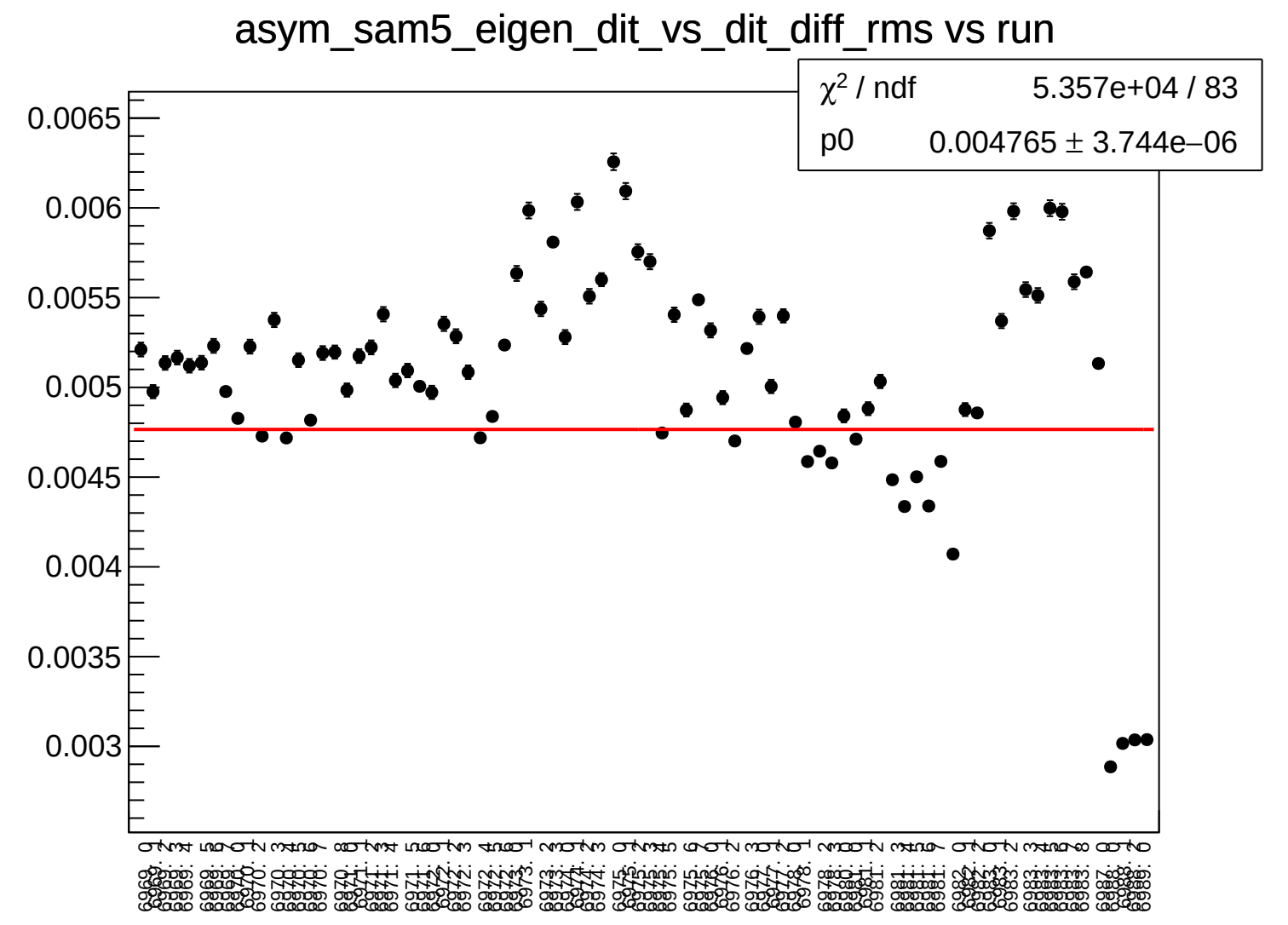

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 83
p0 −0.03072 ± 0.05352
pull
Entries 84
Mean 1718
Std Dev 0

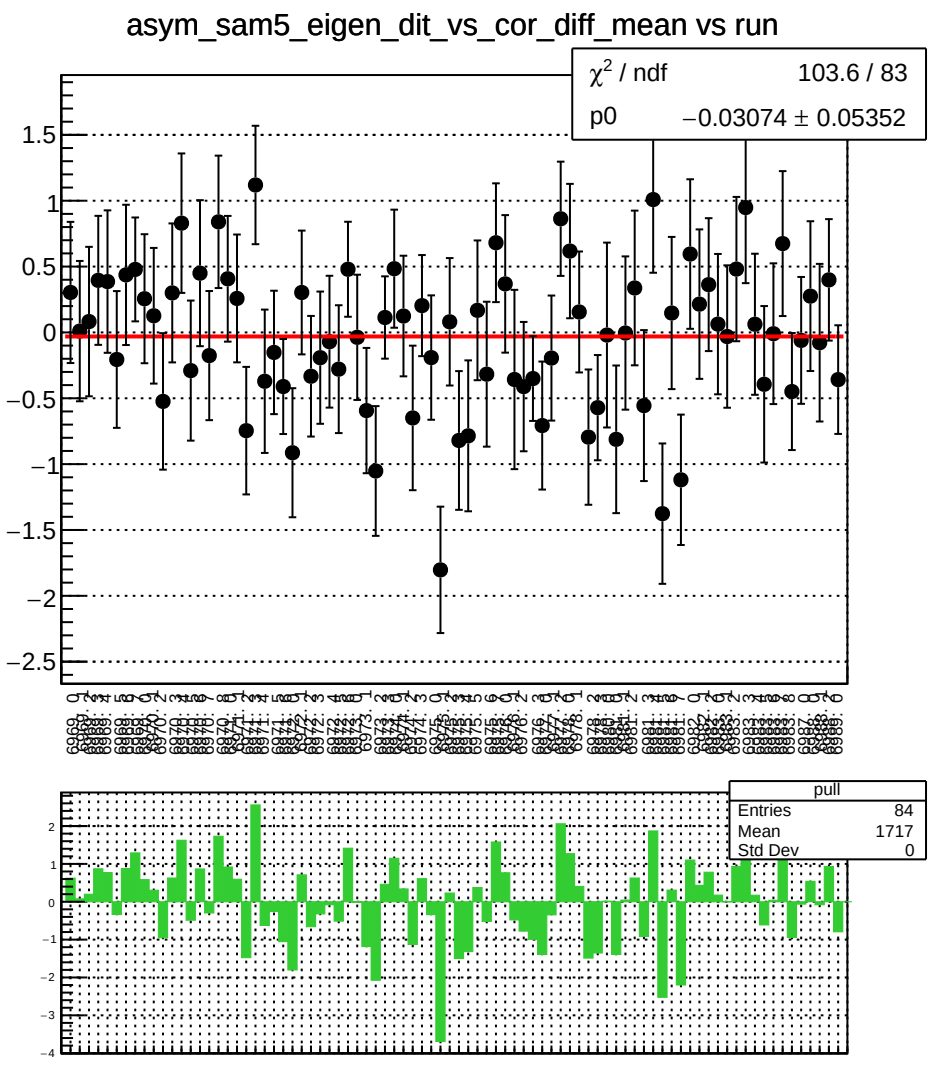

pull1D
Entries 84
Mean −0.001394
Std Dev 1.11

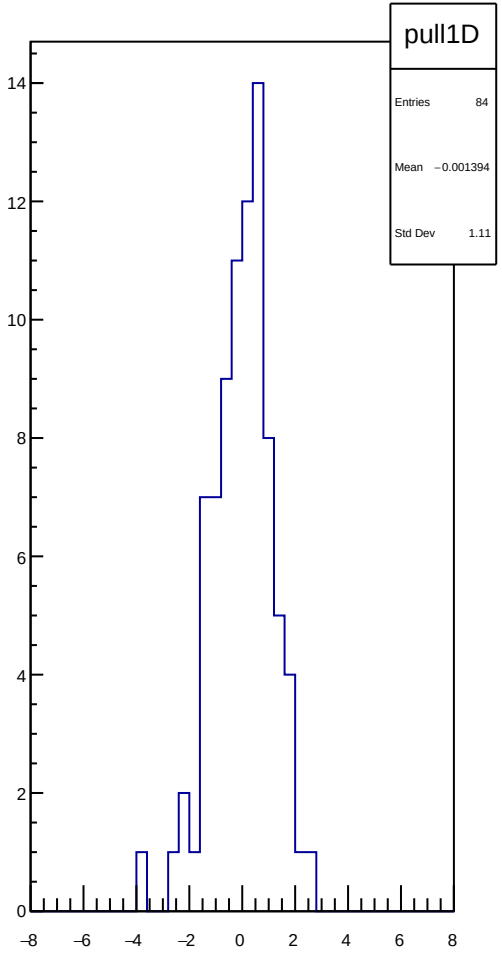

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.596e+04 / 83
p0 48.72 ± 0.03784
65
60
55
50
45
40

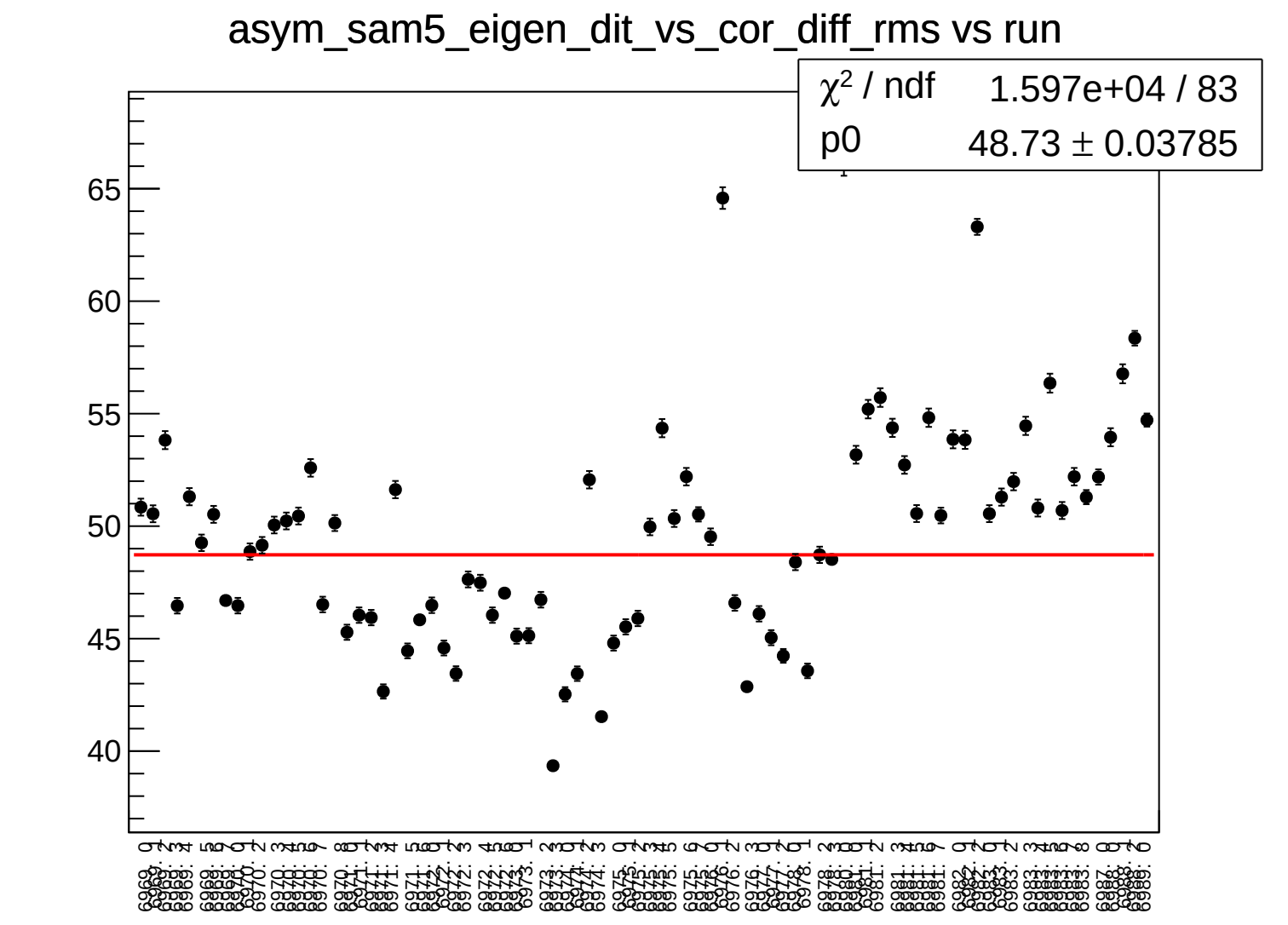

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.3 / 83
p0 −7.856e−06 ± 5.295e−06
pull
Entries 84
Mean −48.38
Std Dev 0

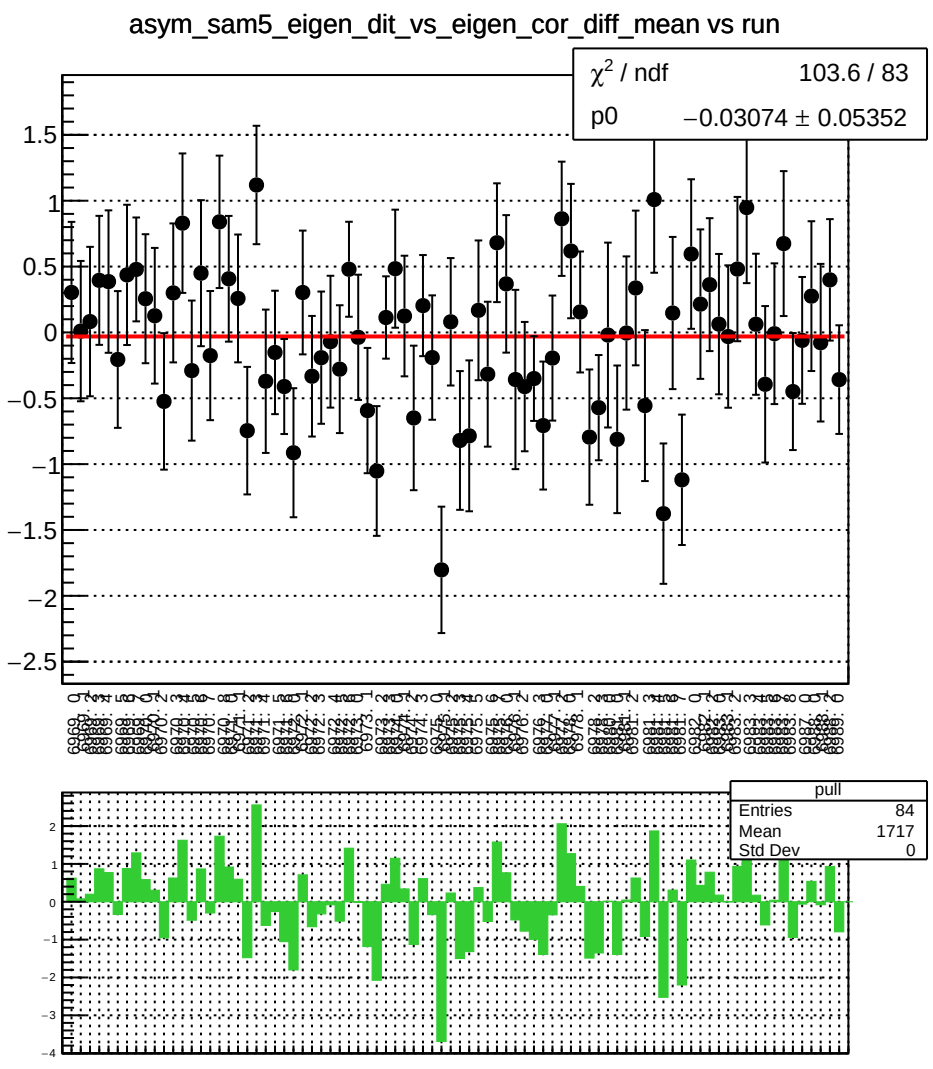

pull1D
Entries 84
Mean −0.05779
Std Dev 1.175

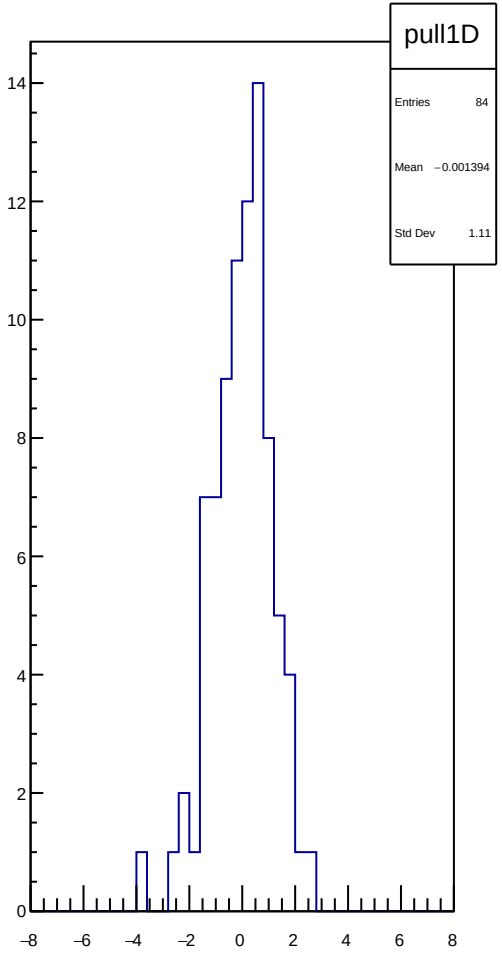

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.357e+04 / 83
p0 0.004765 ± 3.744e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

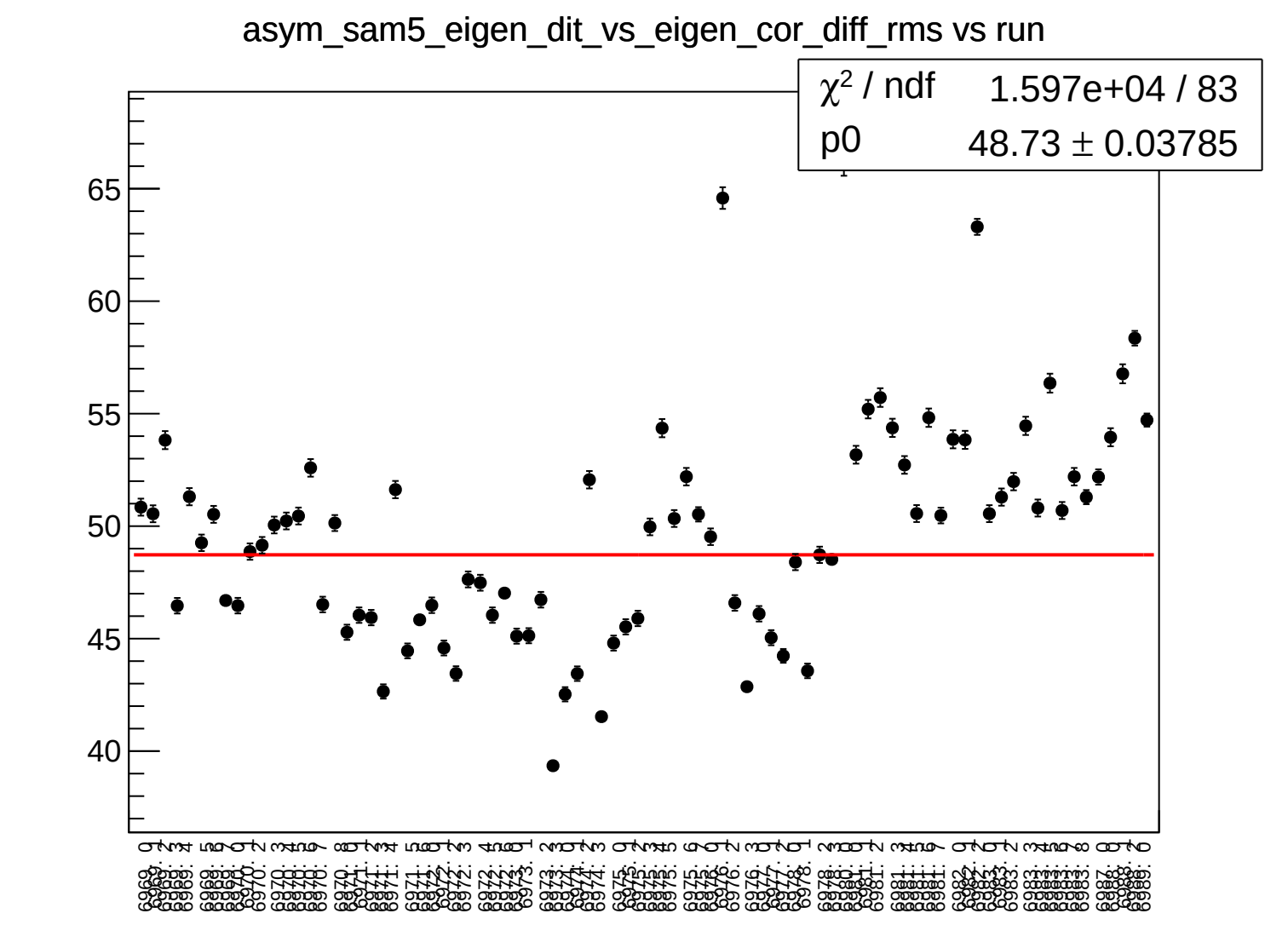

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 83
p0 −0.03074 ± 0.05352
pull
Entries 84
Mean 1717
Std Dev 0

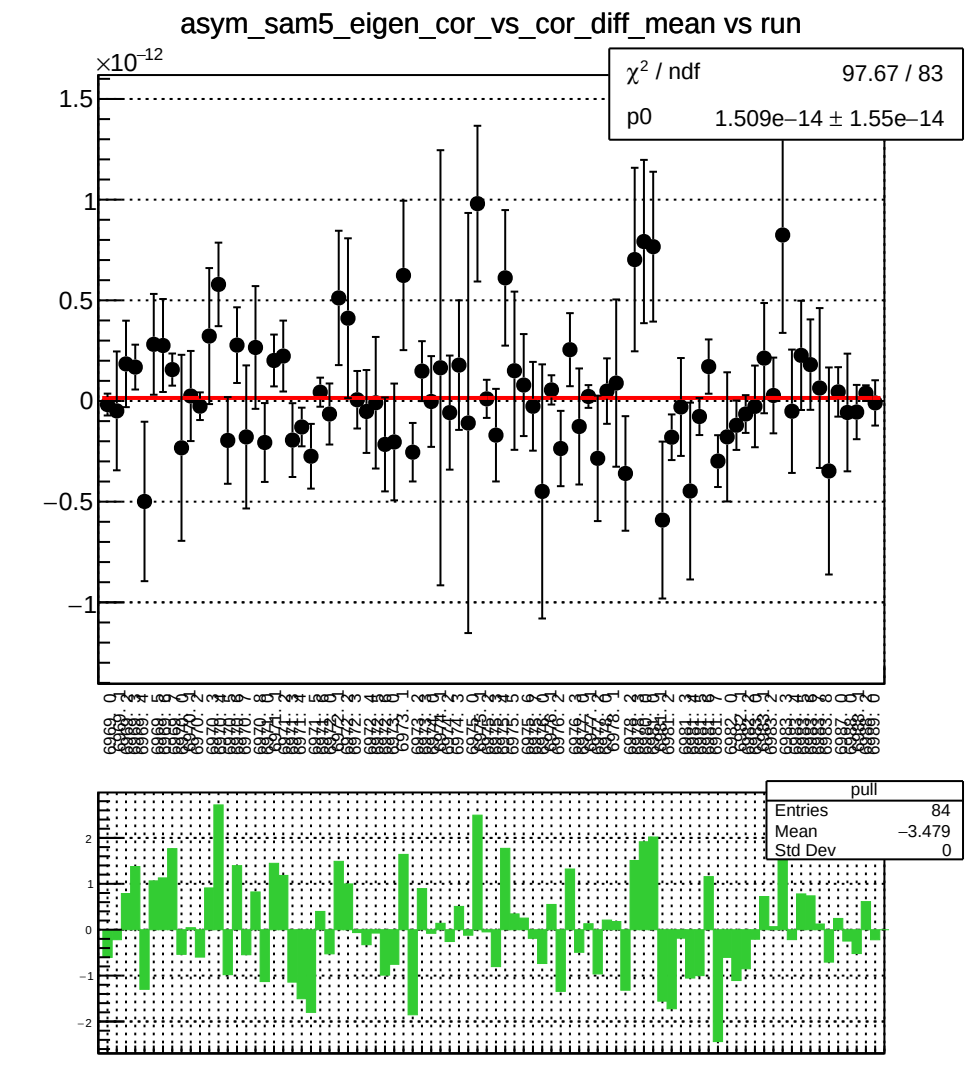

pull1D
Entries 84
Mean −0.001394
Std Dev 1.11

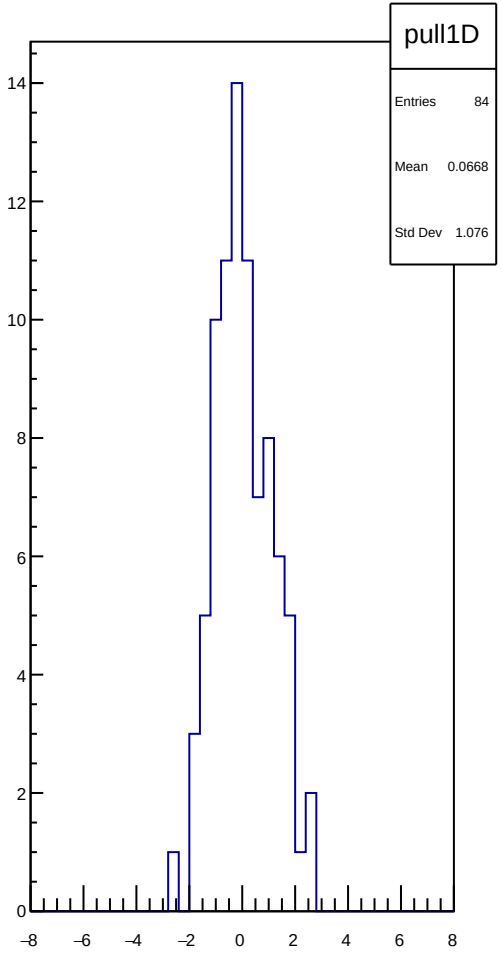

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.597e+04 / 83
p0 48.73 ± 0.03785
65
60
55
50
45
40

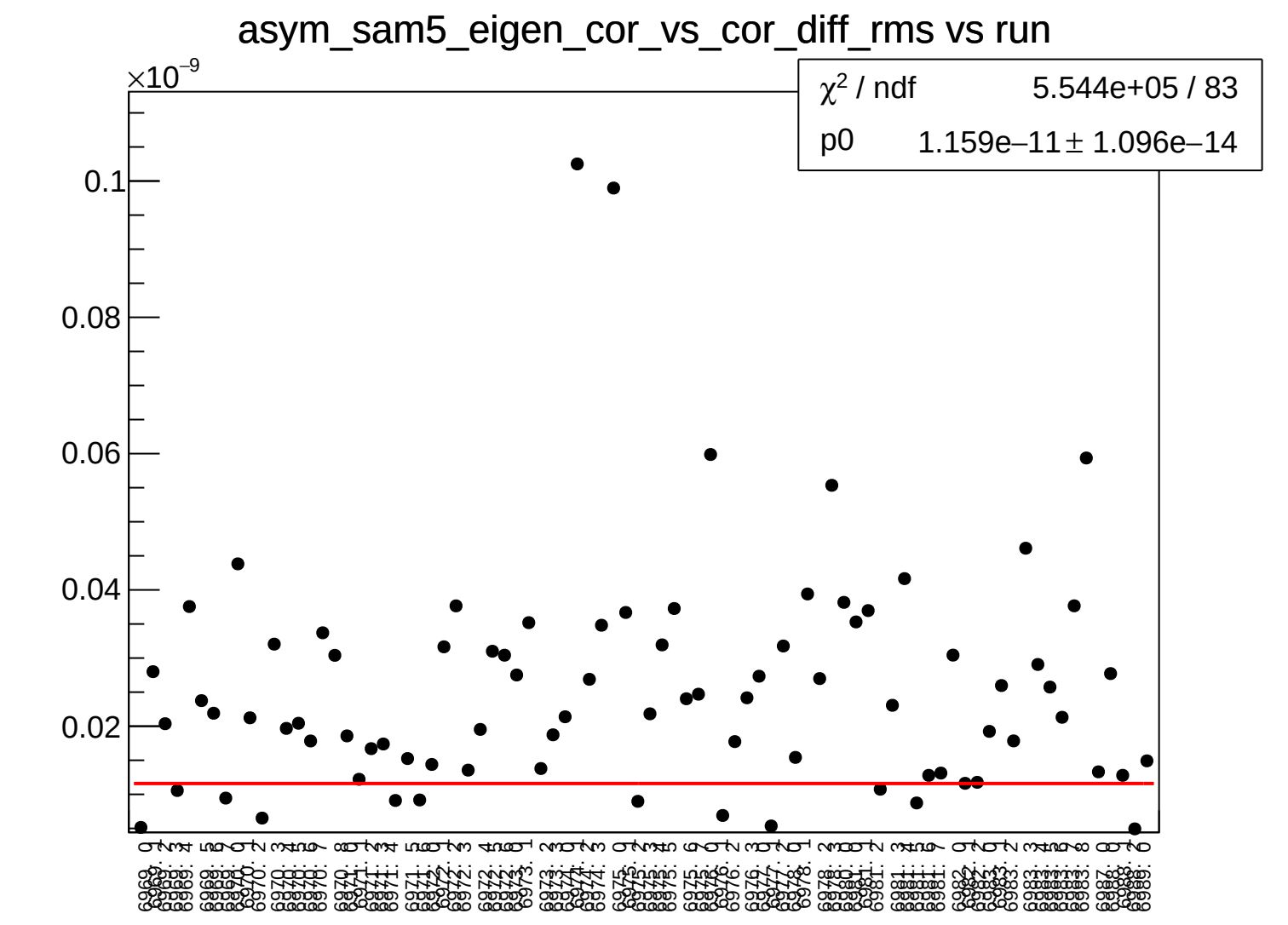

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 83
p0 −0.03074 ± 0.05352
pull
Entries 84
Mean 1717
Std Dev 0

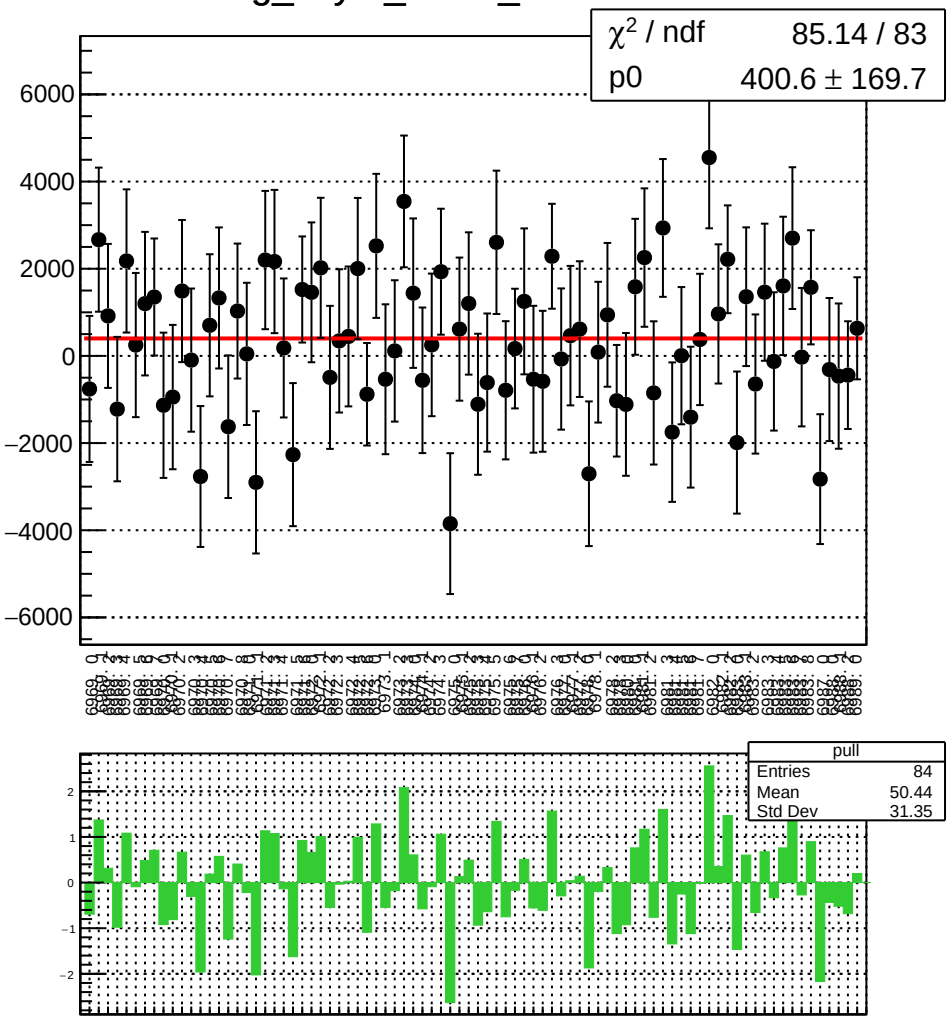

pull1D
Entries 84
Mean −0.001394
Std Dev 1.11

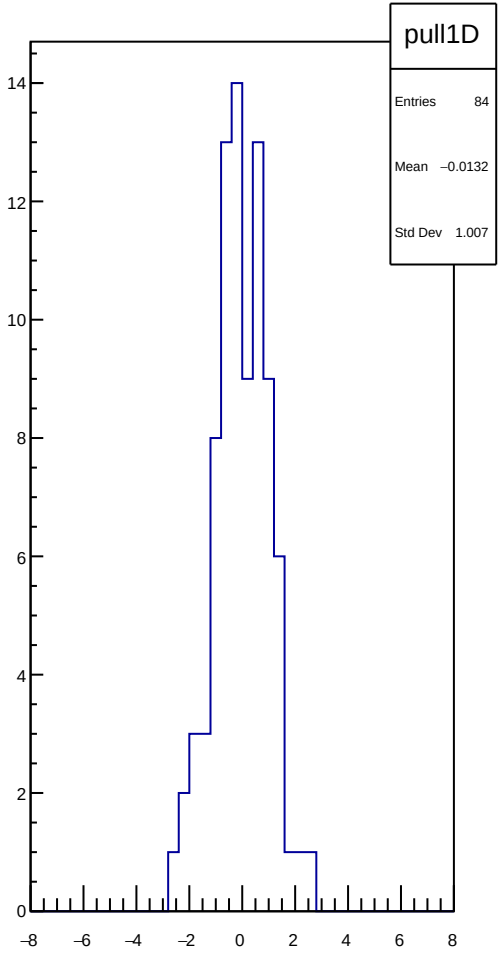

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.597e+04 / 83
p0 48.73 ± 0.03785
65
60
55
50
45
40

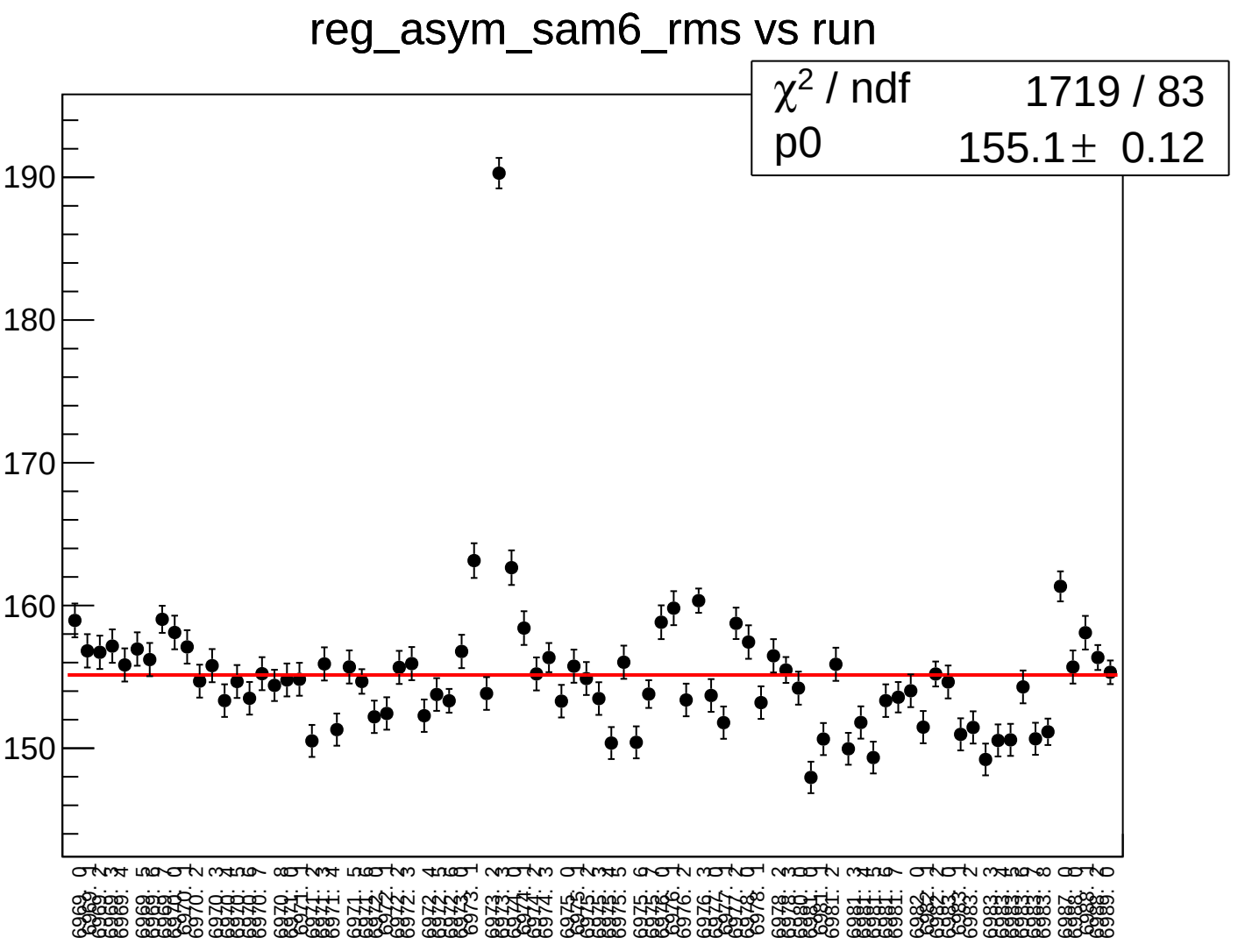

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.67 / 83
p0 1.509e−14 ± 1.55e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 84
Mean −3.479
Std Dev 0
2
1
0
−1
−2

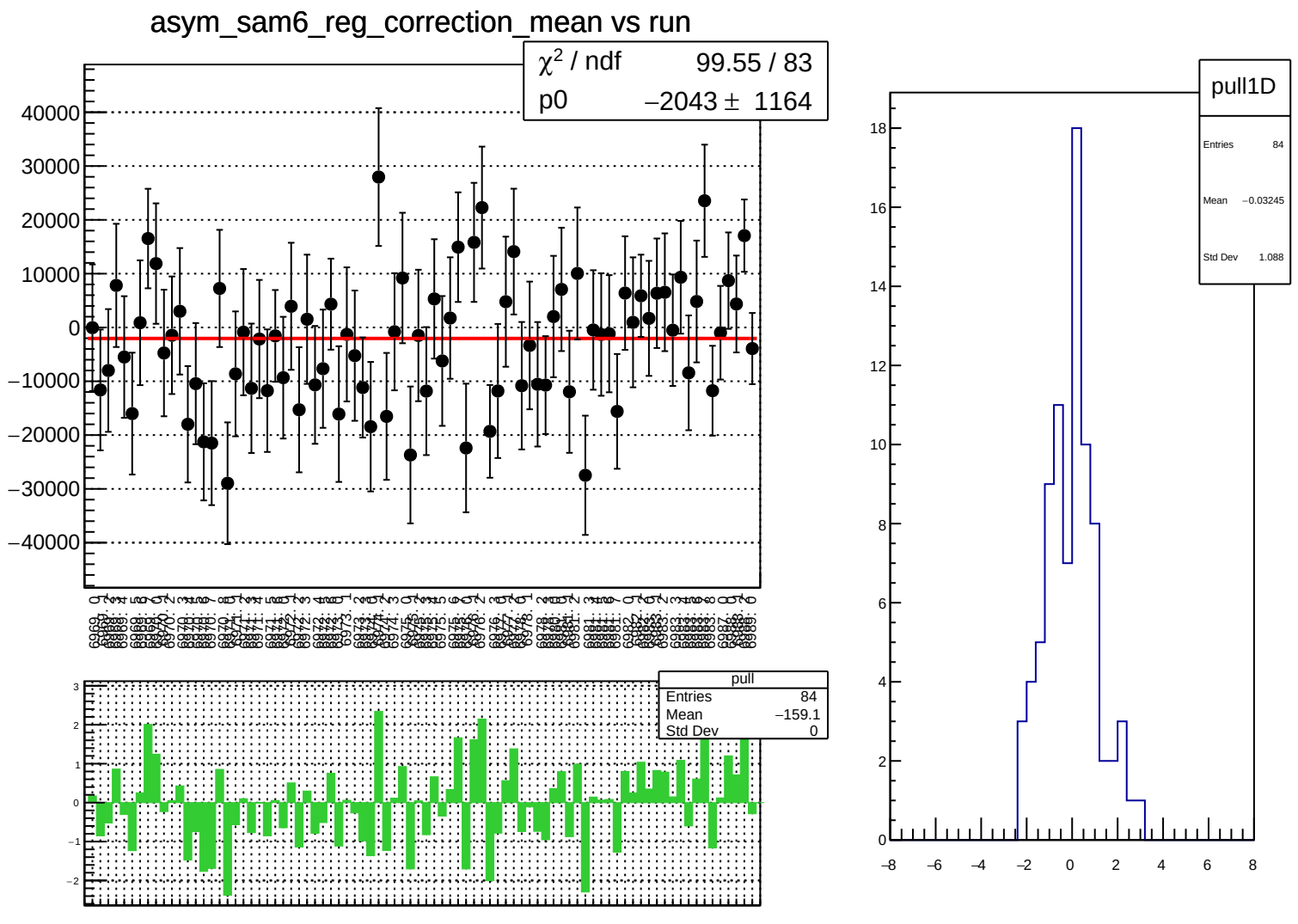

pull1D
Entries 84
Mean 0.0668
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

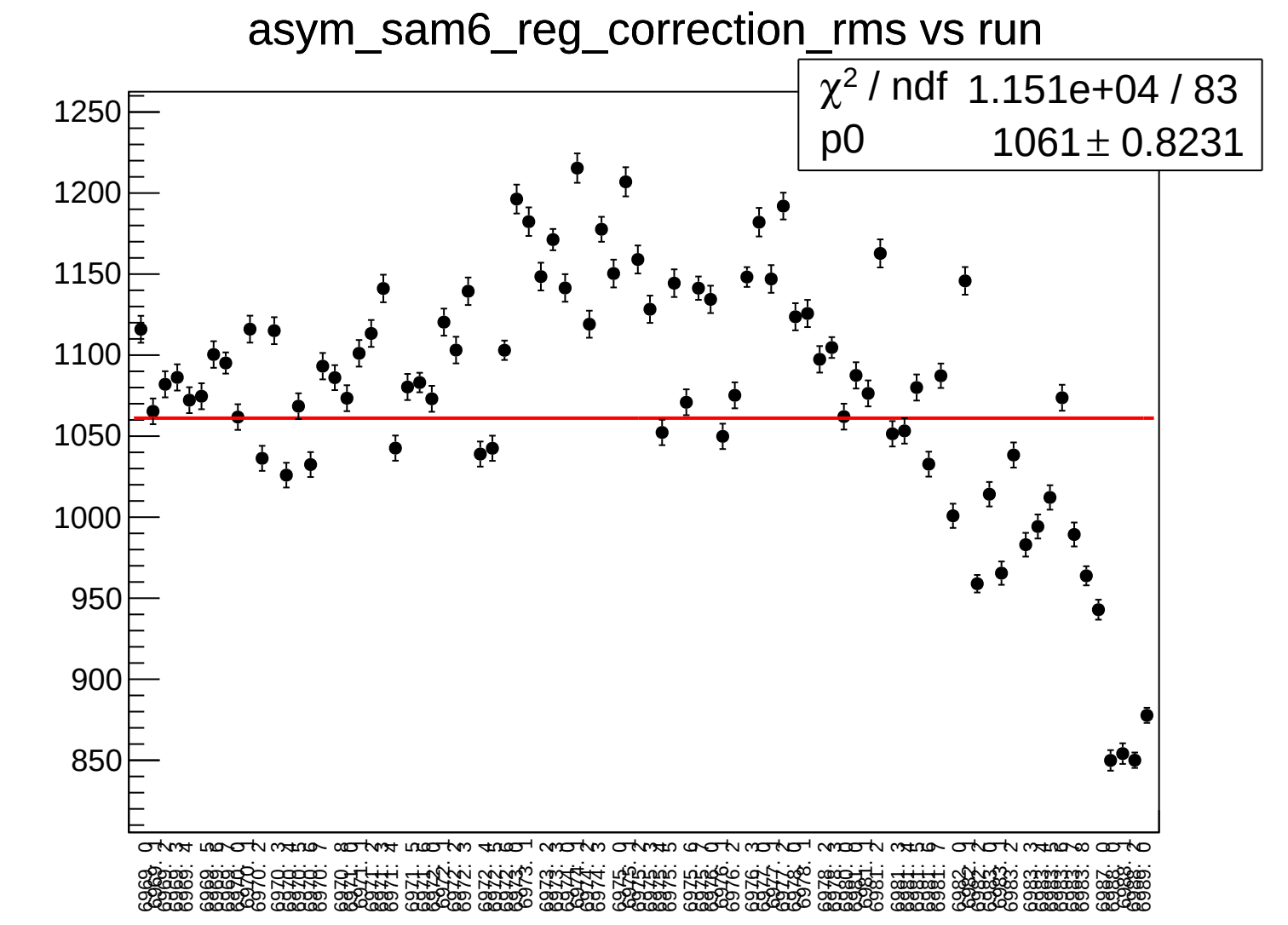

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.544e+05 / 83
p0 1.159e−11 ± 1.096e−14
0.1
0.08
0.06
0.04
0.02

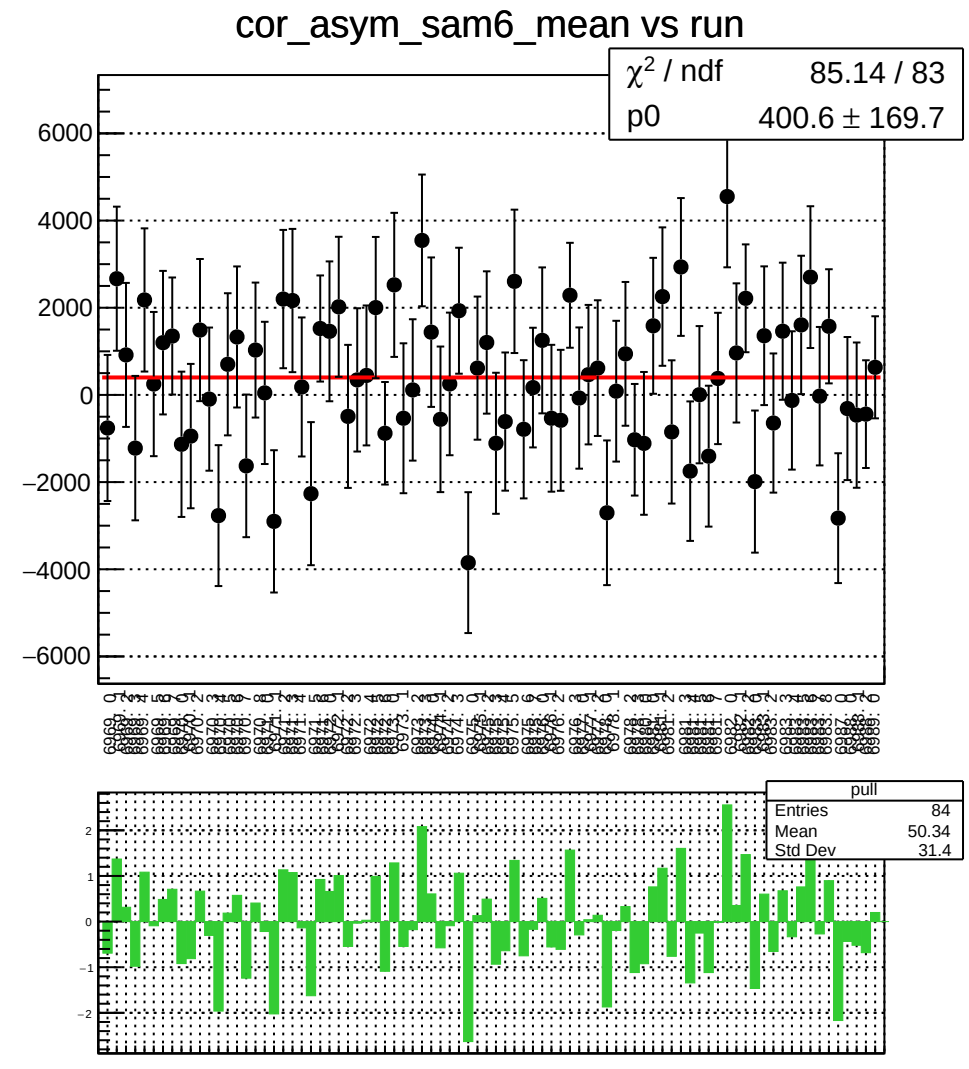

reg_asym_sam6_mean vs run
χ² / ndf 85.14 / 83
p0 400.6 ± 169.7
pull
Entries 84
Mean 50.44
Std Dev 31.35

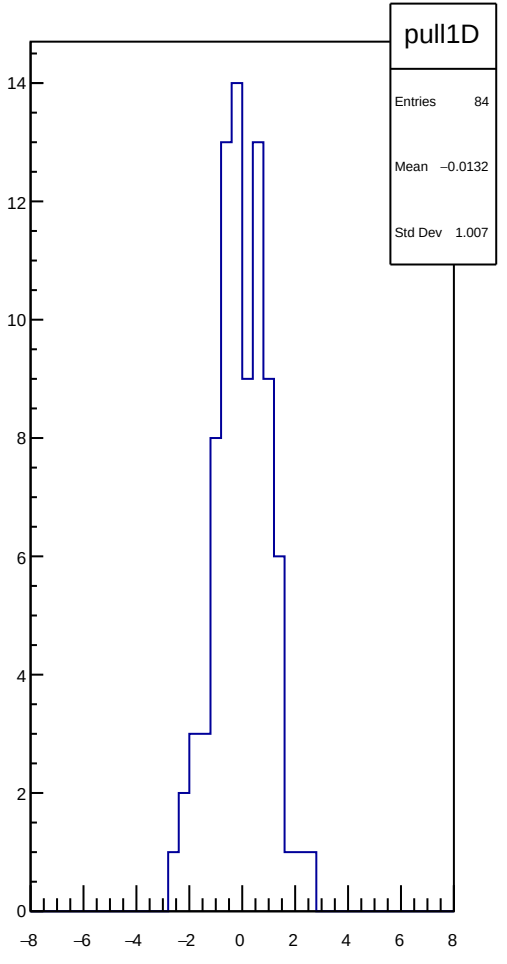

pull1D
Entries 84
Mean −0.0132
Std Dev 1.007

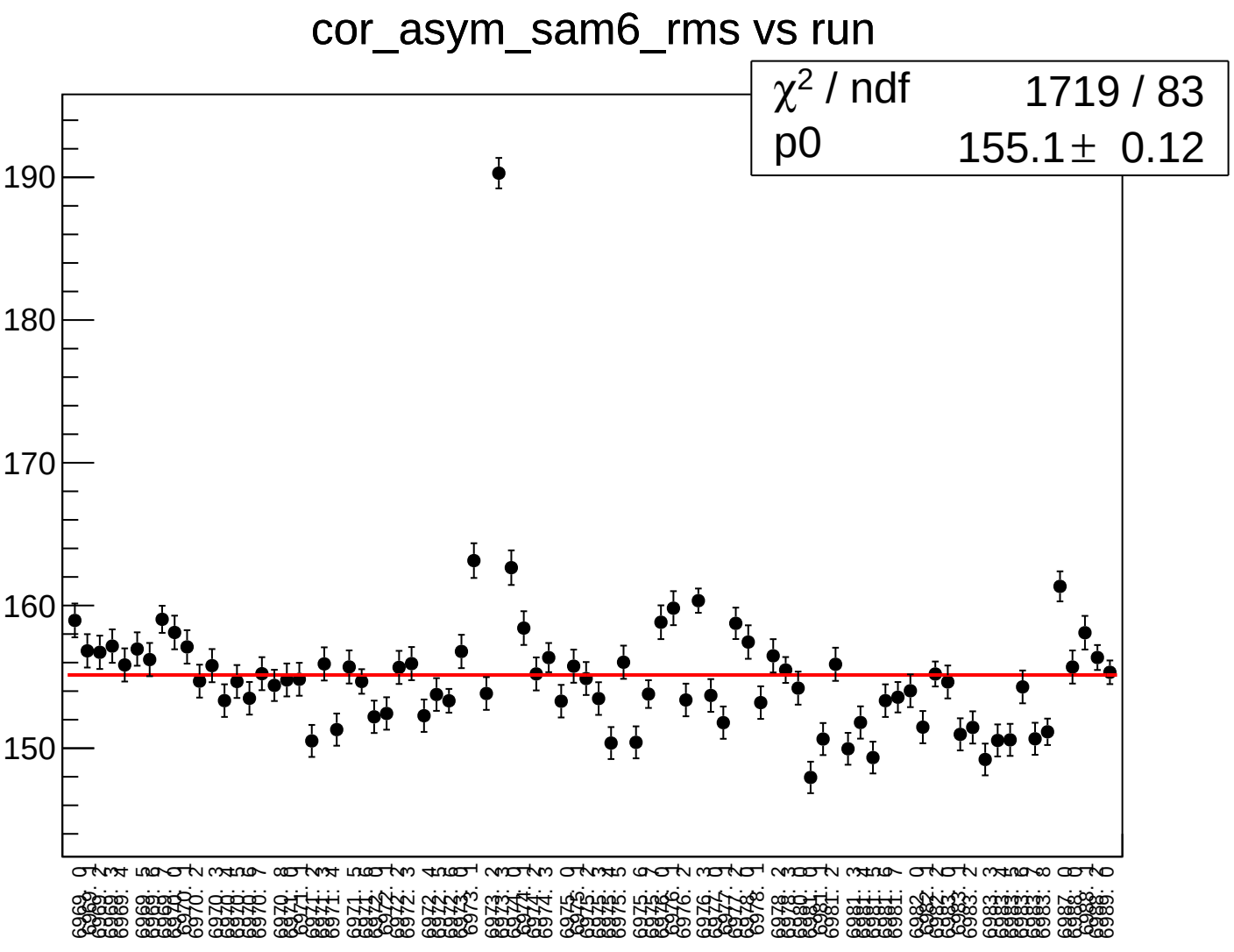

reg_asym_sam6_rms vs run
χ² / ndf 1719 / 83
p0 155.1 ± 0.12
190
180
170
160
150

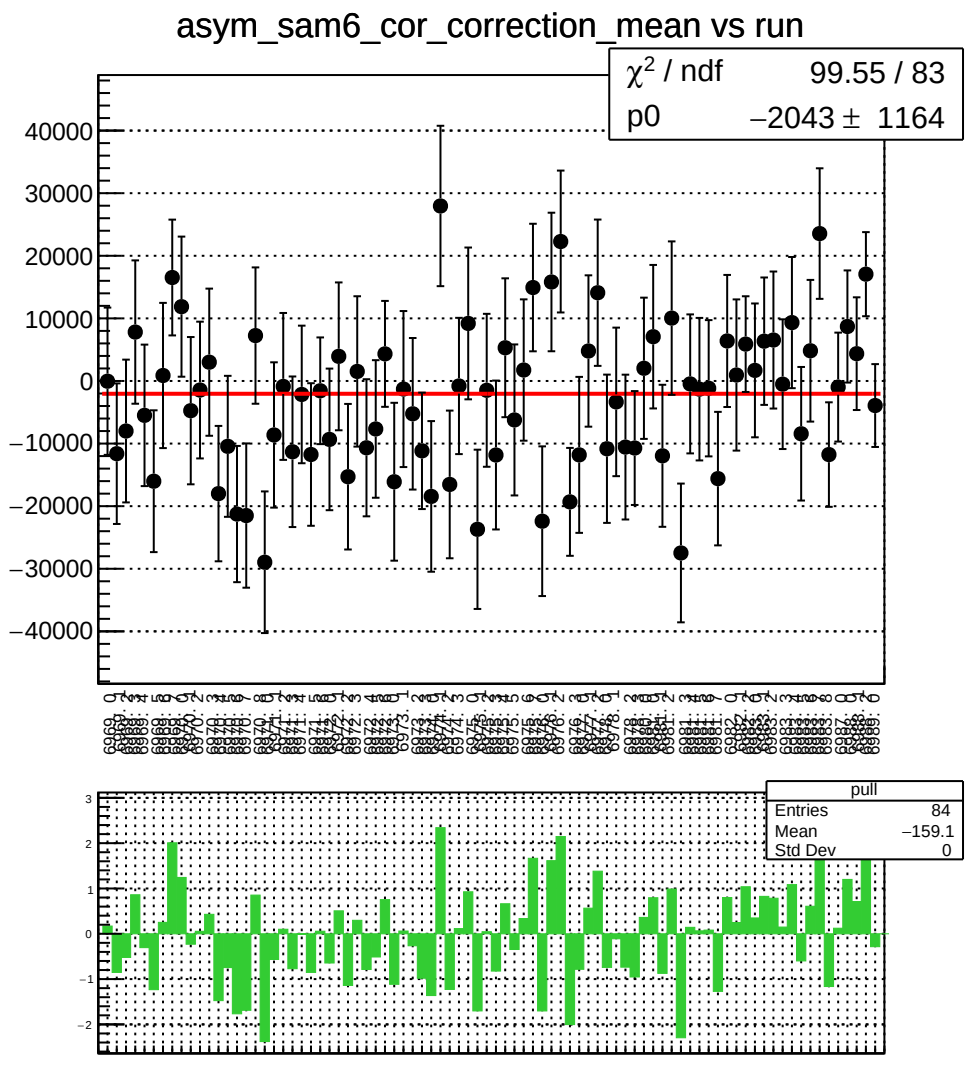

asym_sam6_reg_correction_mean vs run
χ² / ndf 99.55 / 83
p0 −2043 ± 1164
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −159.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.03245
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

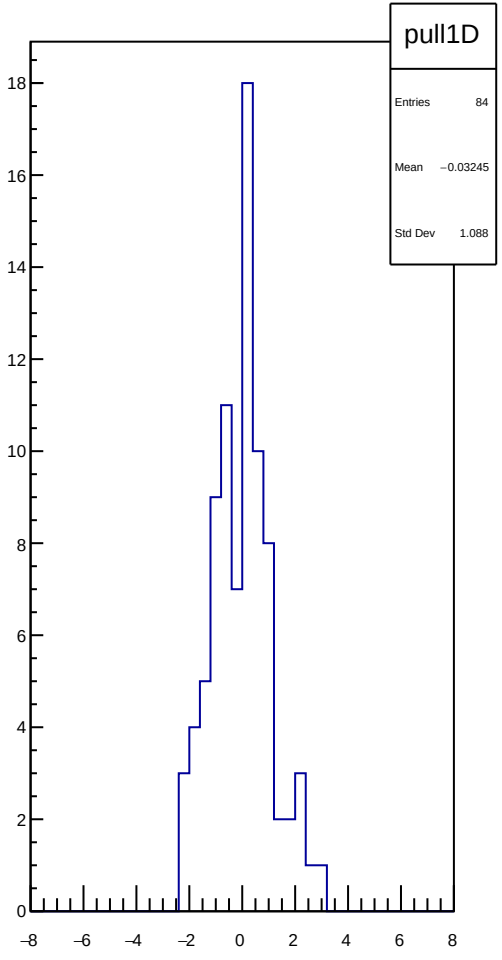

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.151e+04 / 83
p0 1061 ± 0.8231
1250
1200
1150
1100
1050
1000
950
900
850

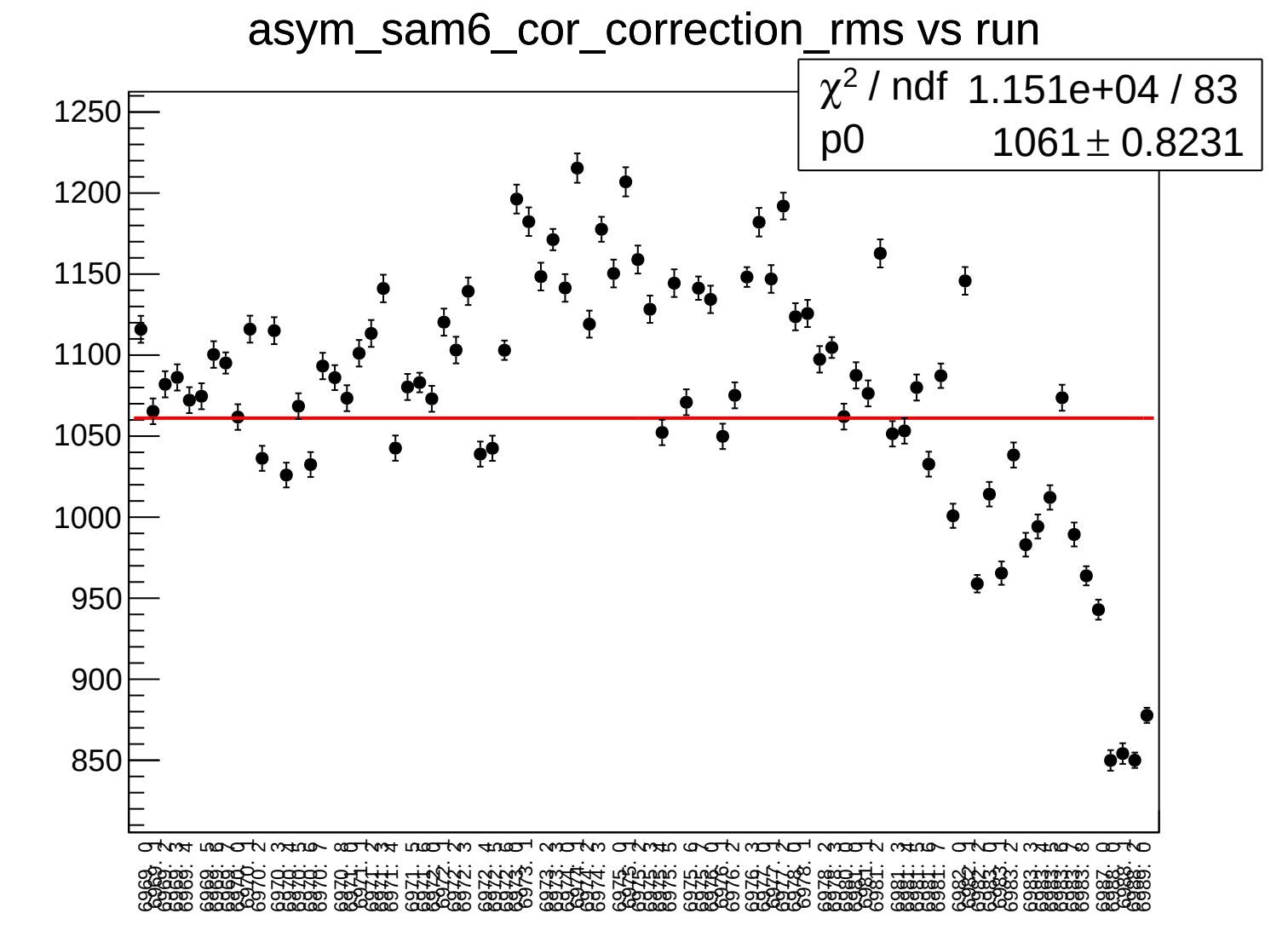

cor_asym_sam6_mean vs run
χ² / ndf 85.14 / 83
p0 400.6 ± 169.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 50.34
Std Dev 31.4
2
1
0
−1
−2

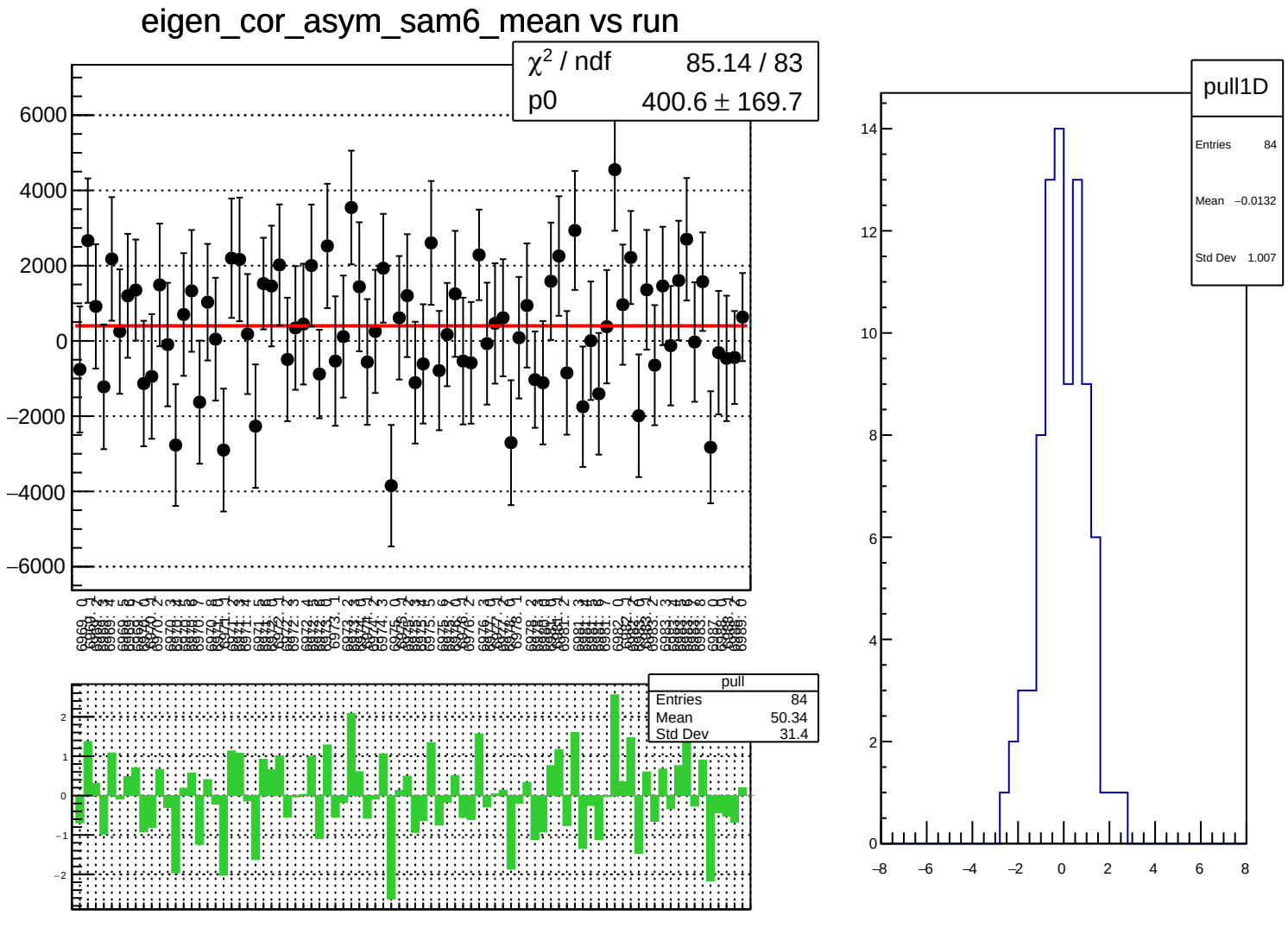

pull1D
Entries 84
Mean −0.0132
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

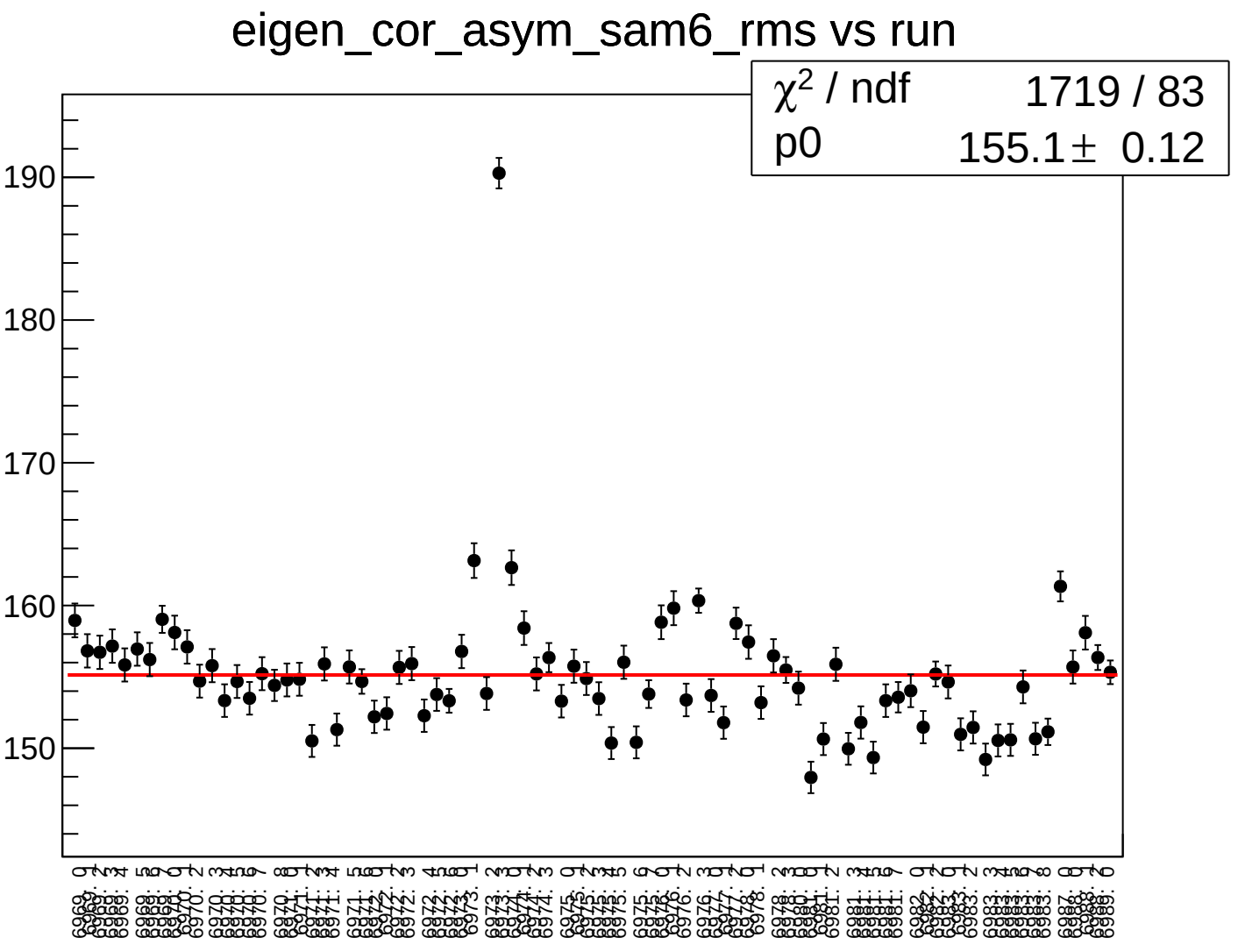

cor_asym_sam6_rms vs run
χ² / ndf 1719 / 83
p0 155.1 ± 0.12
190
180
170
160
150

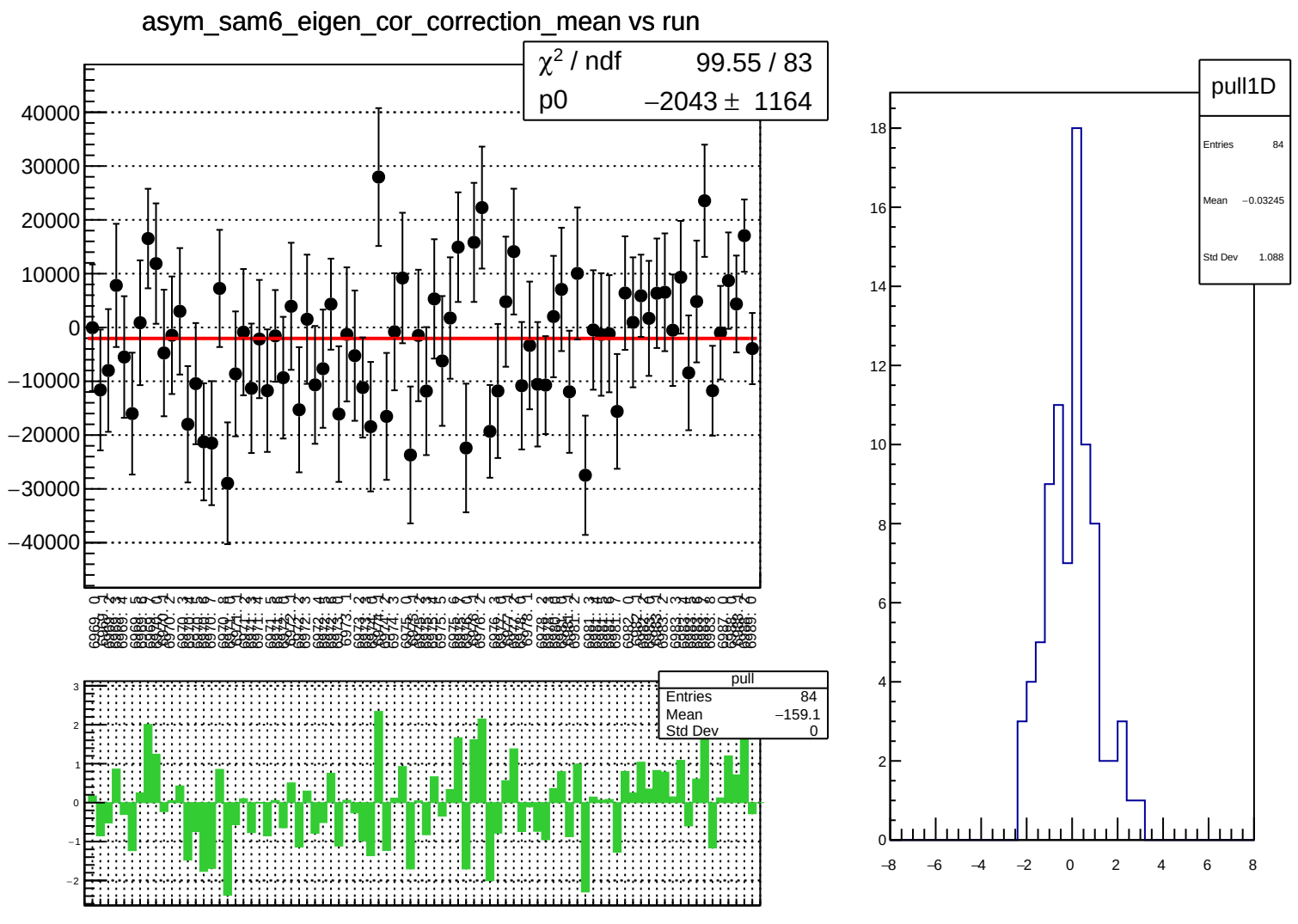

asym_sam6_cor_correction_mean vs run
χ² / ndf 99.55 / 83
p0 −2043 ± 1164
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −159.1
Std Dev 0
3
2
1
0
−1
−2

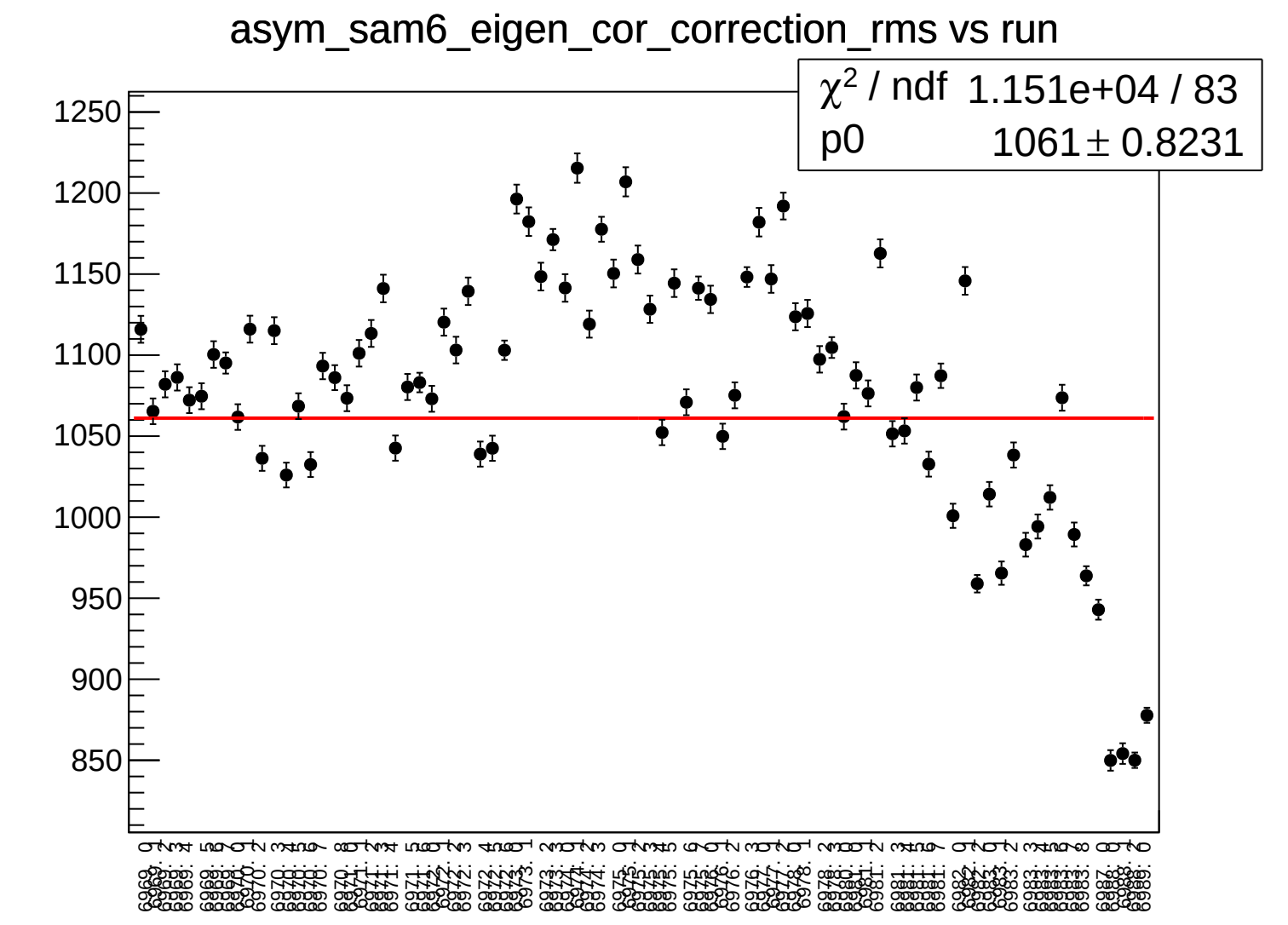

pull1D
Entries 84
Mean −0.03245
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

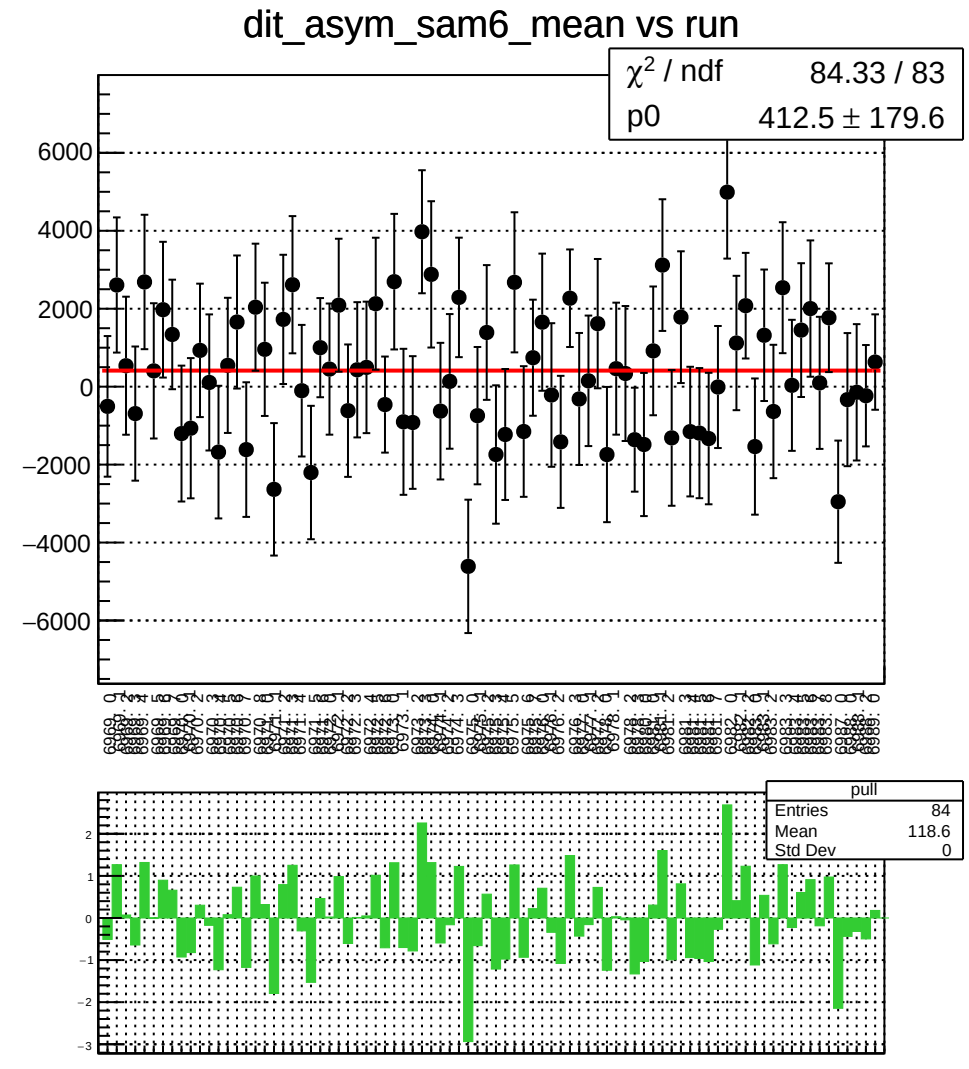

asym_sam6_cor_correction_rms vs run
χ² / ndf 1.151e+04 / 83
p0 1061 ± 0.8231
1250
1200
1150
1100
1050
1000
950
900
850

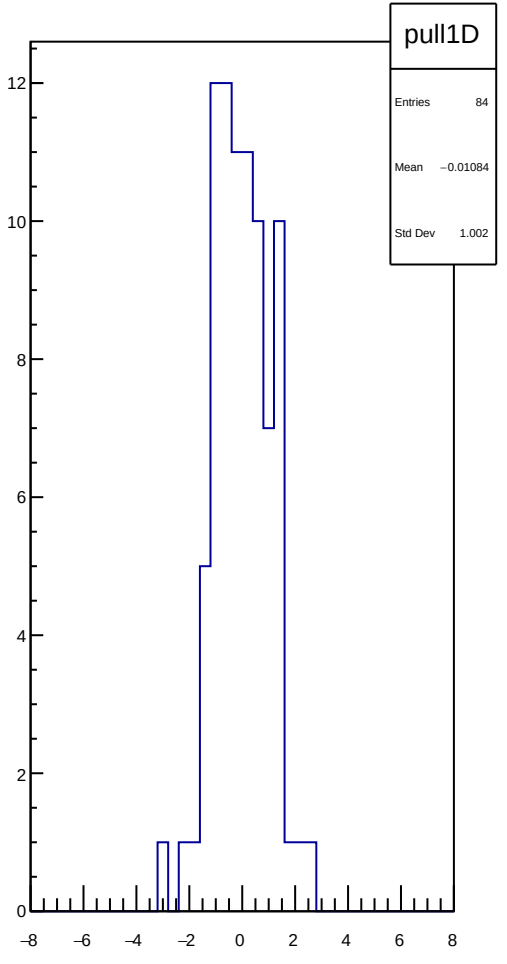

eigen_cor_asym_sam6_mean vs run
χ² / ndf 85.14 / 83
p0 400.6 ± 169.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 50.34
Std Dev 31.4
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.0132
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

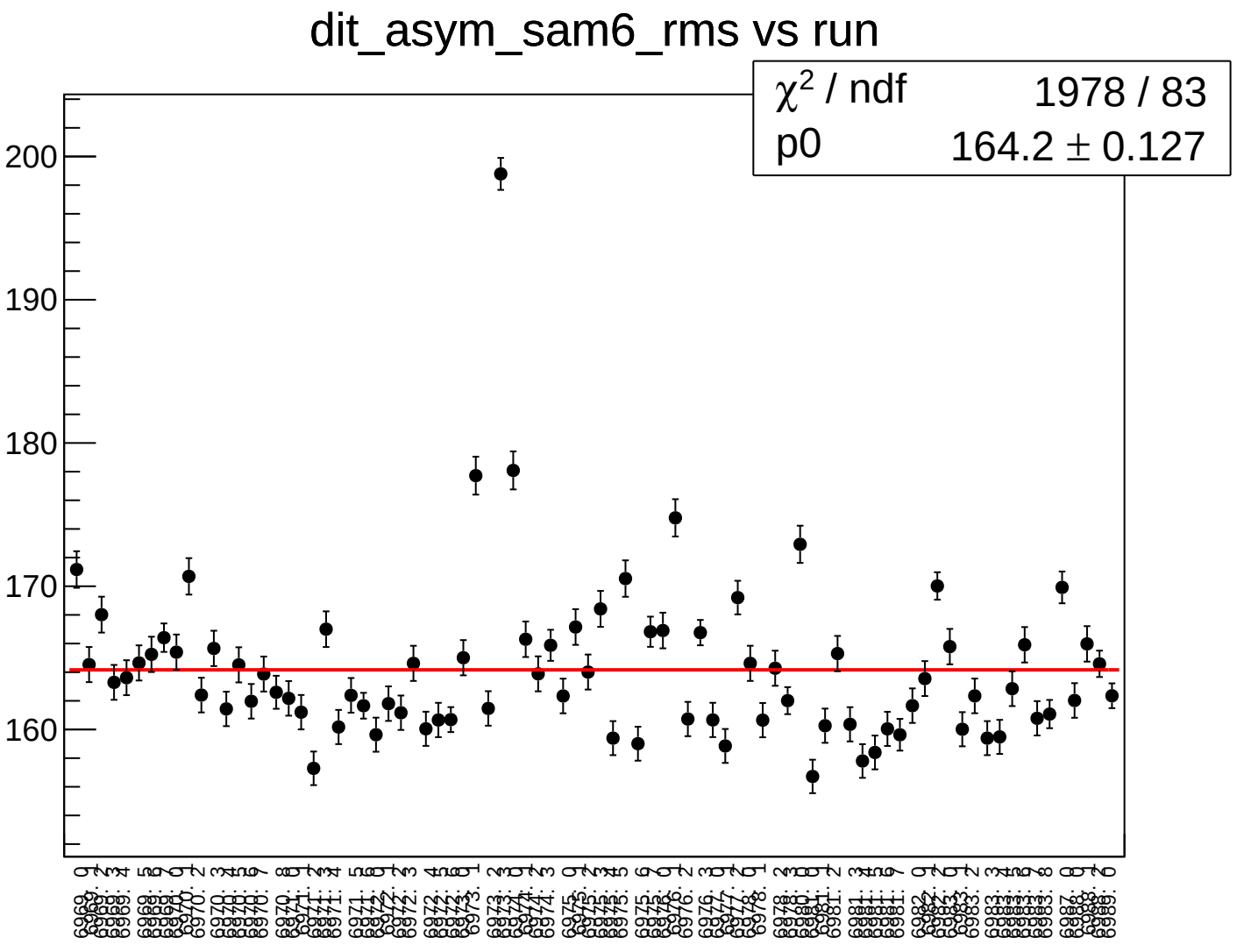

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1719 / 83
p0 155.1 ± 0.12
190
180
170
160
150

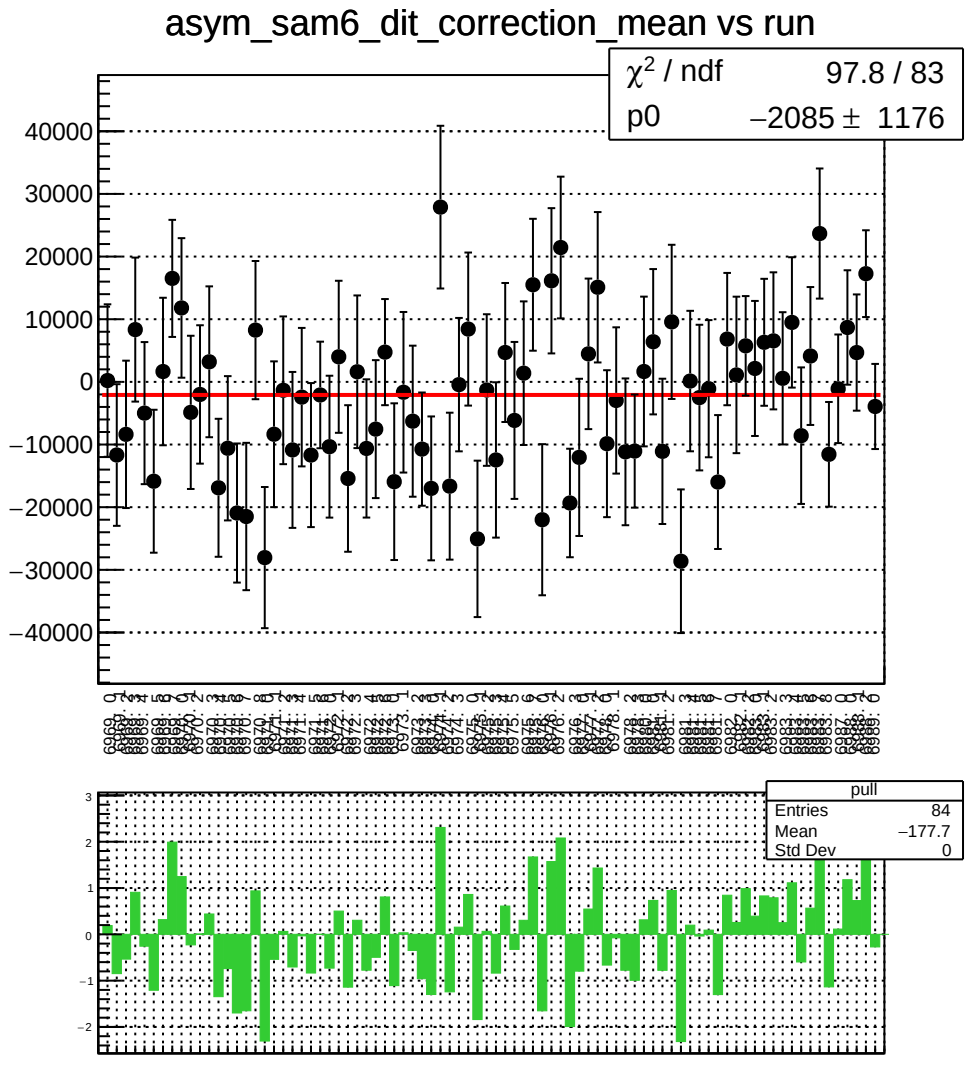

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 99.55 / 83
p0 −2043 ± 1164
pull
Entries 84
Mean −159.1
Std Dev 0
pull1D
Entries 84
Mean −0.03245
Std Dev 1.088

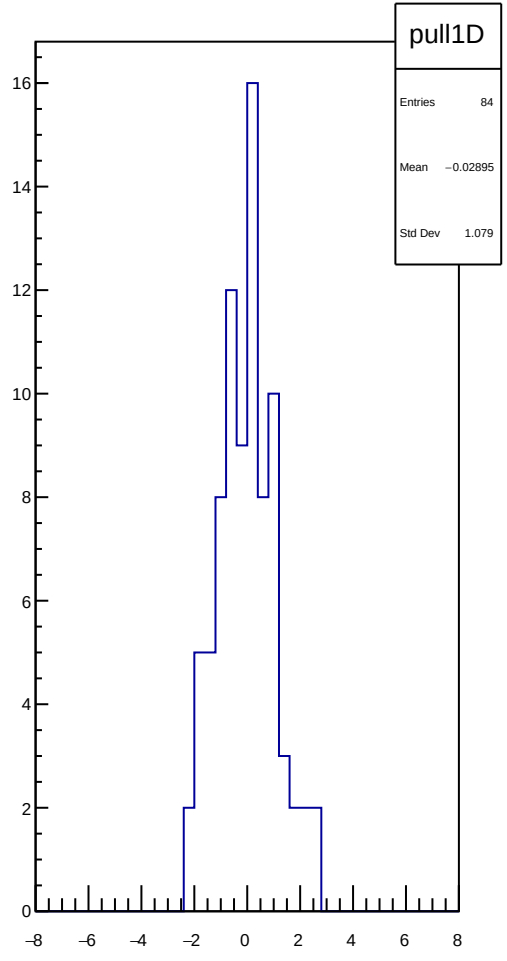

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1.151e+04 / 83
p0 1061 ± 0.8231
1250
1200
1150
1100
1050
1000
950
900
850

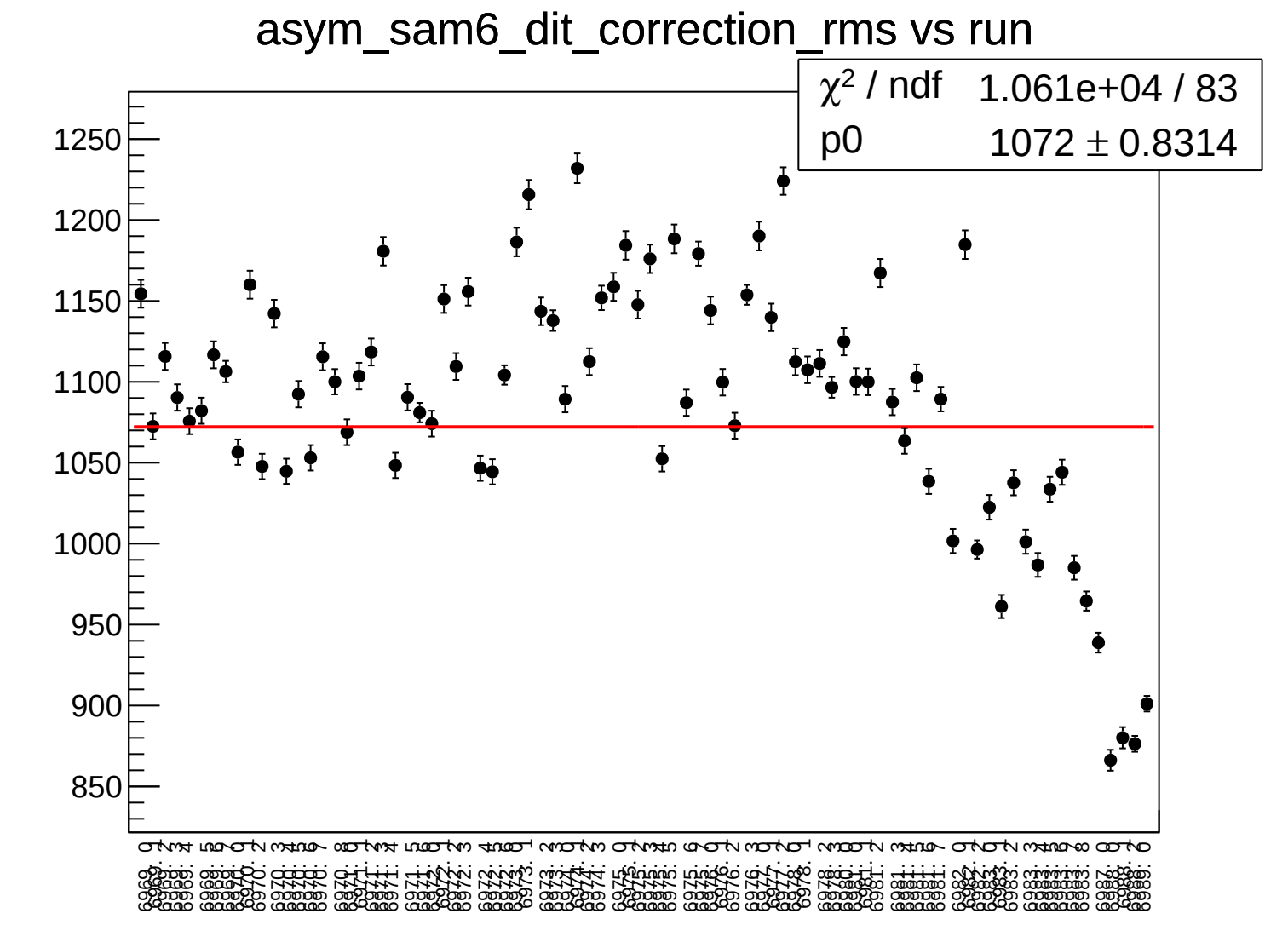

dit_asym_sam6_mean vs run
χ² / ndf 84.33 / 83
p0 412.5 ± 179.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 118.6
Std Dev 0
2
1
0
−1
−2
−3

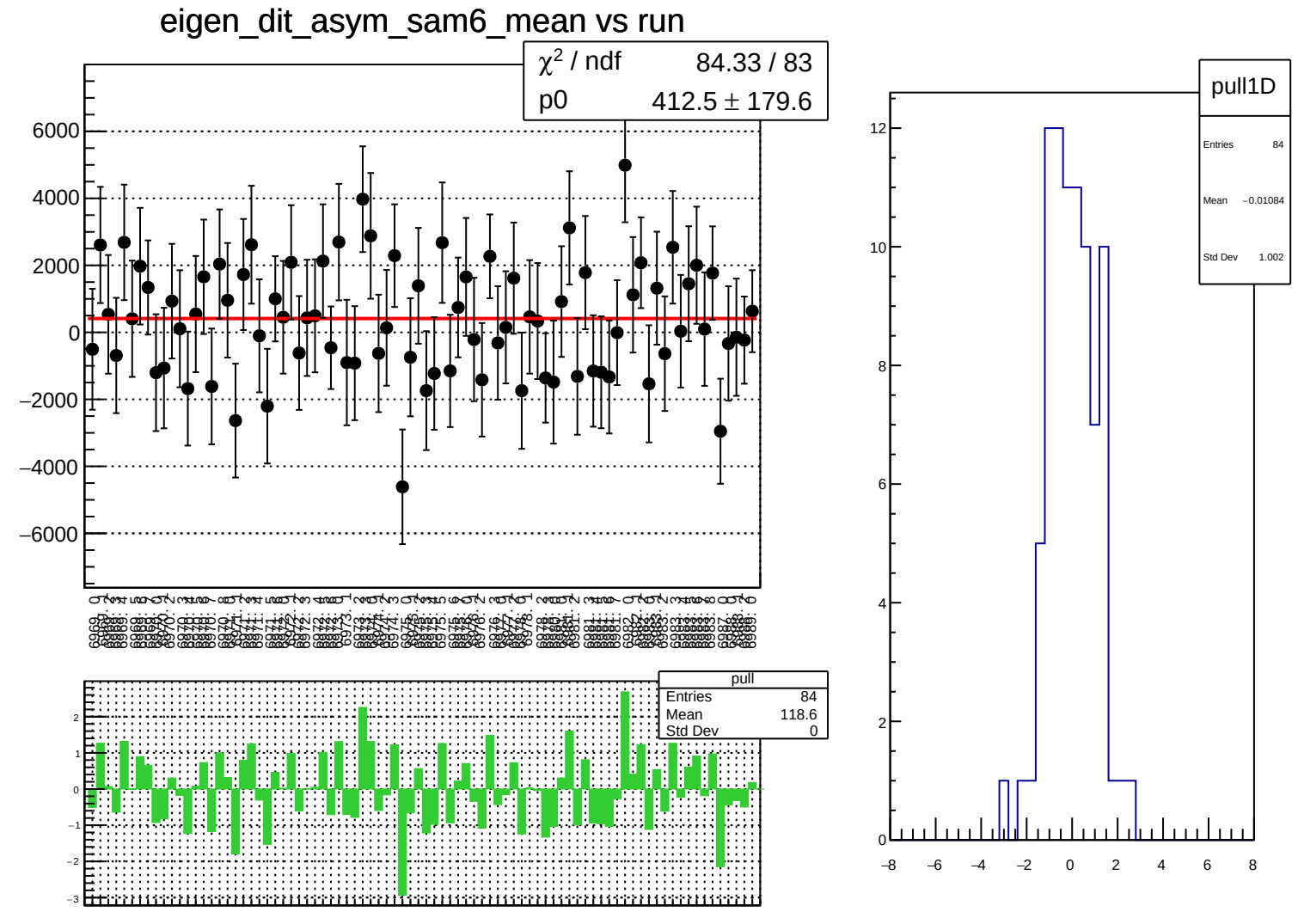

pull1D
Entries 84
Mean −0.01084
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

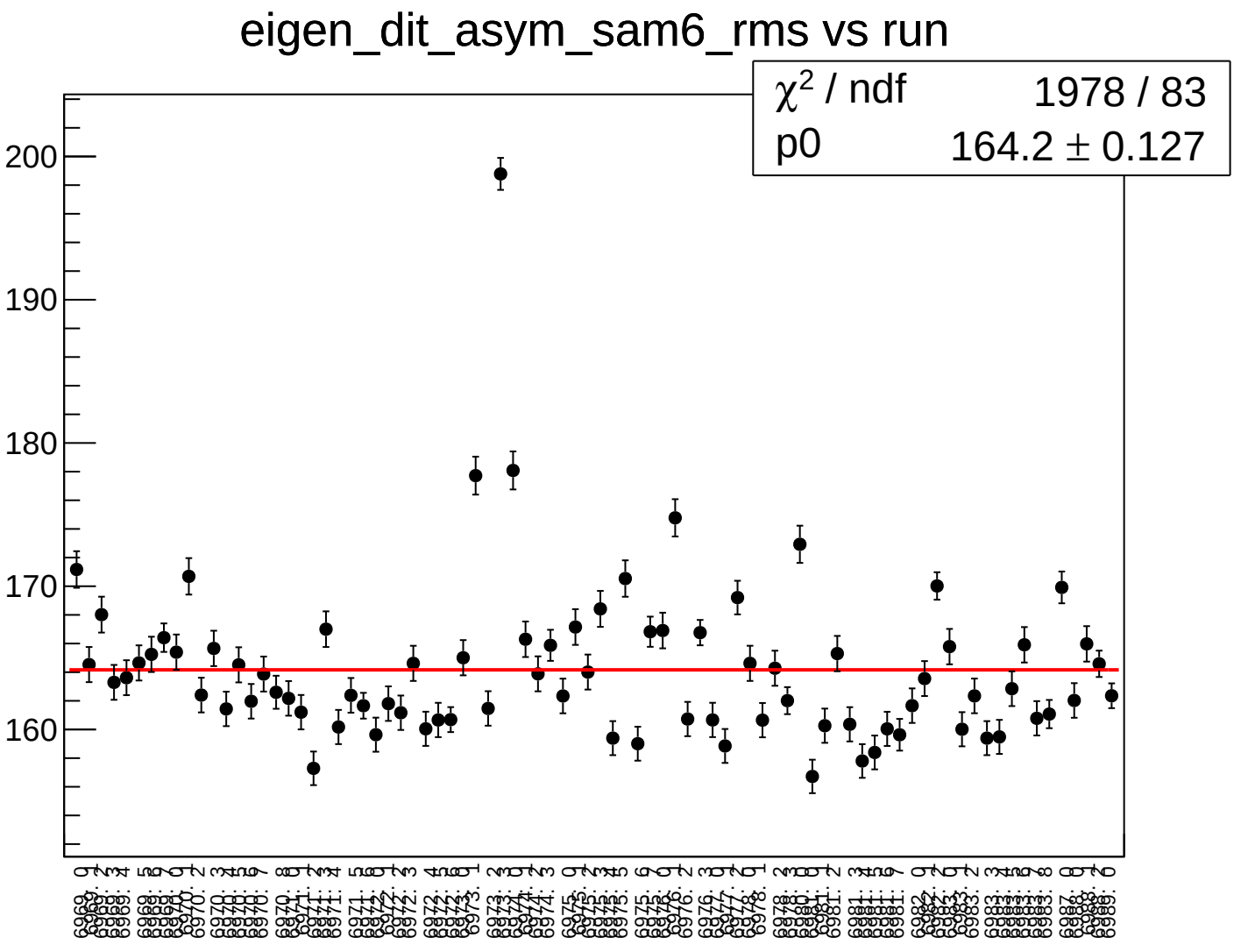

dit_asym_sam6_rms vs run
χ² / ndf 1978 / 83
p0 164.2 ± 0.127
200
190
180
170
160

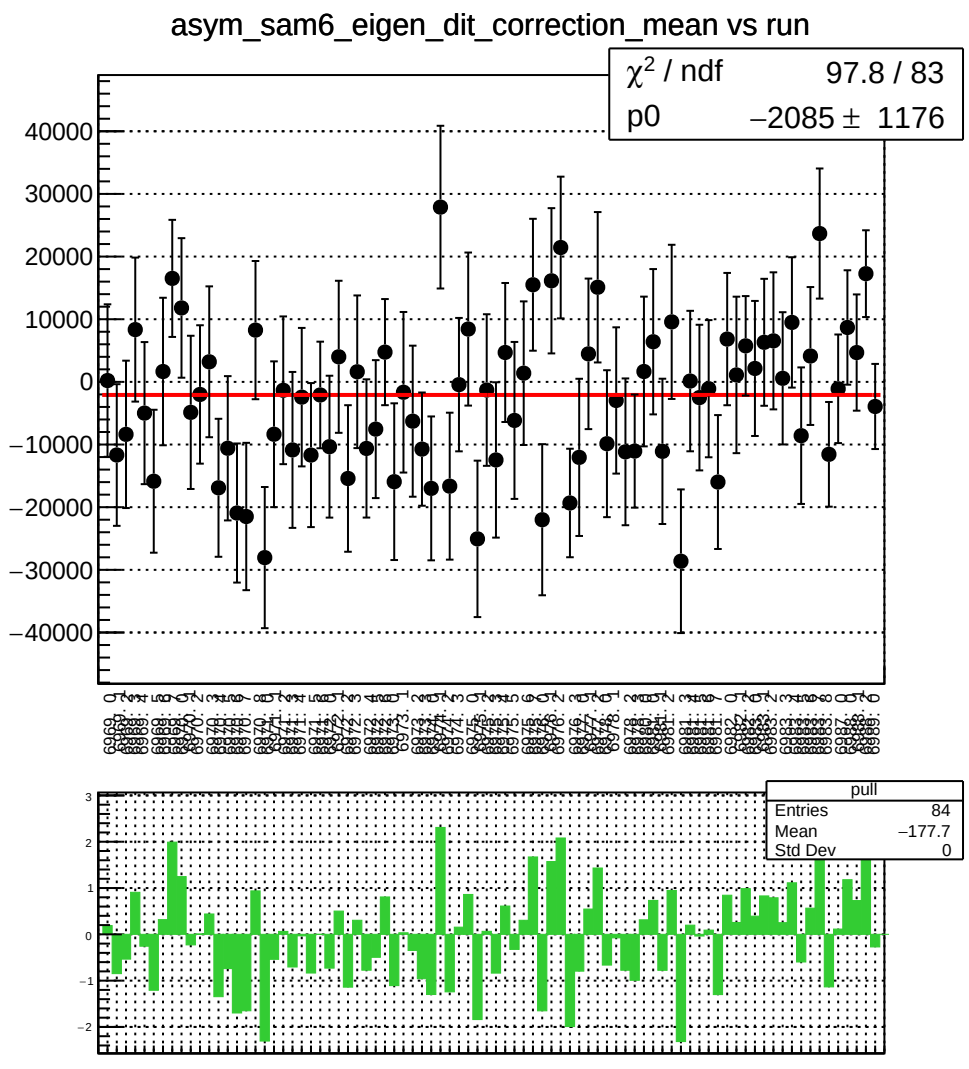

asym_sam6_dit_correction_mean vs run
χ² / ndf 97.8 / 83
p0 −2085 ± 1176
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −177.7
Std Dev 0
3
2
1
0
−1
−2

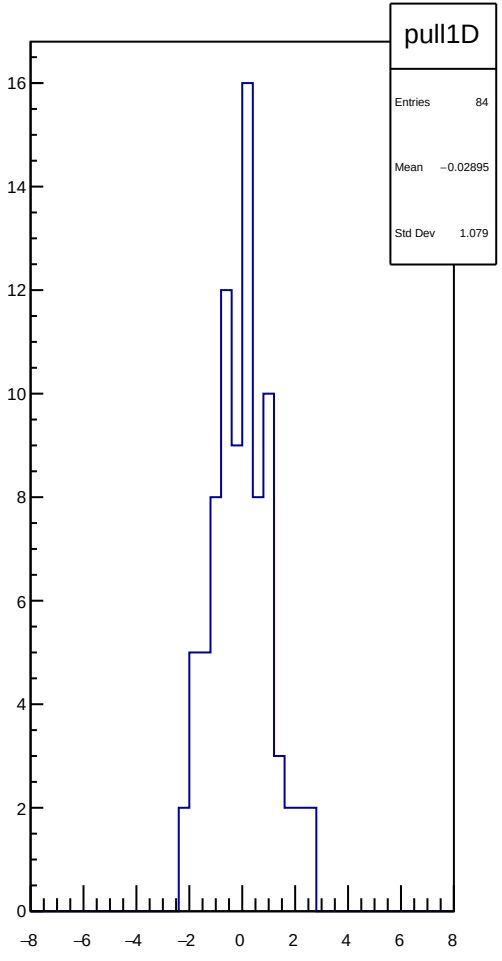

pull1D
Entries 84
Mean −0.02895
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

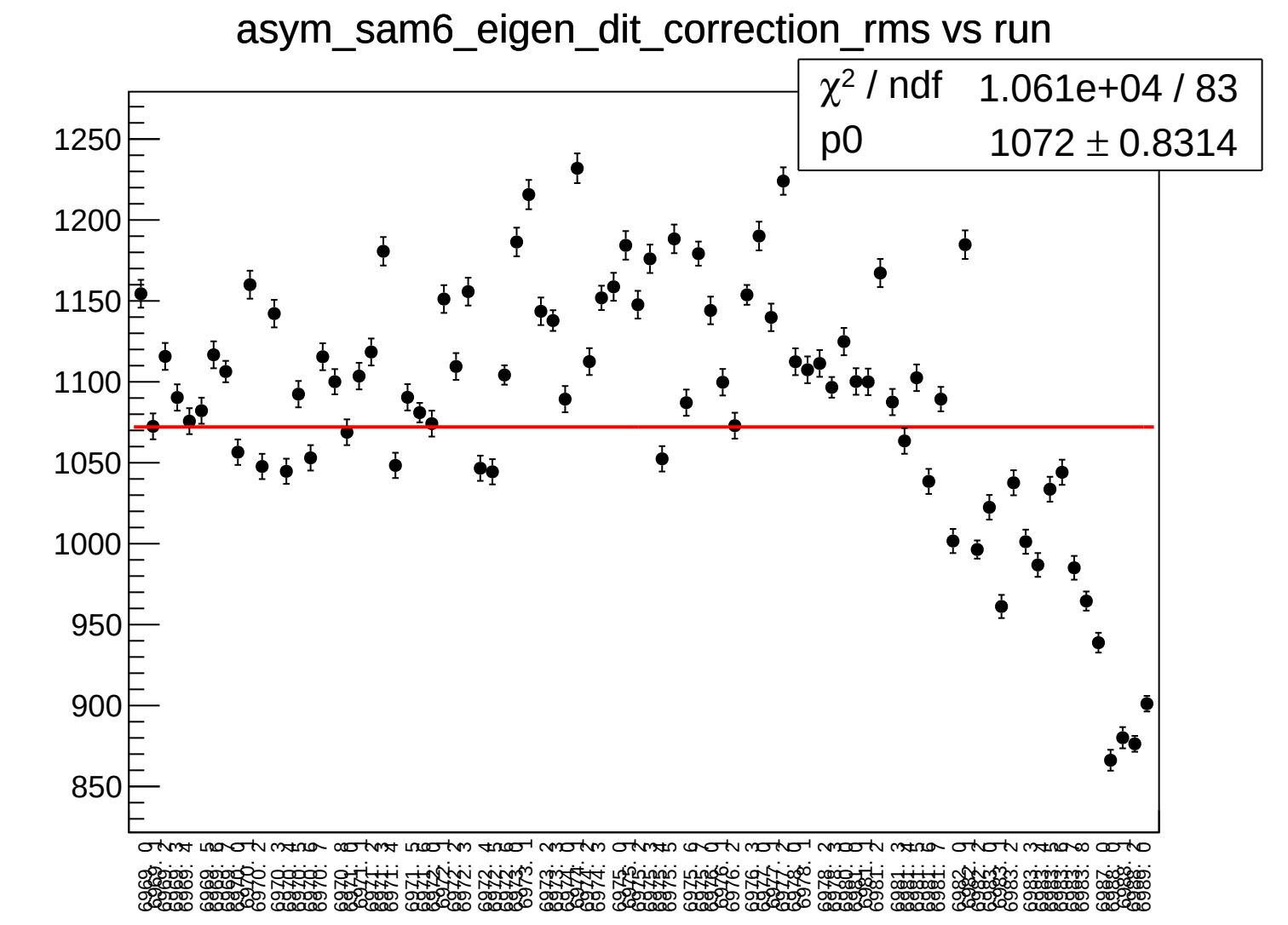

asym_sam6_dit_correction_rms vs run
χ² / ndf 1.061e+04 / 83
p0 1072 ± 0.8314
1250
1200
1150
1100
1050
1000
950
900
850

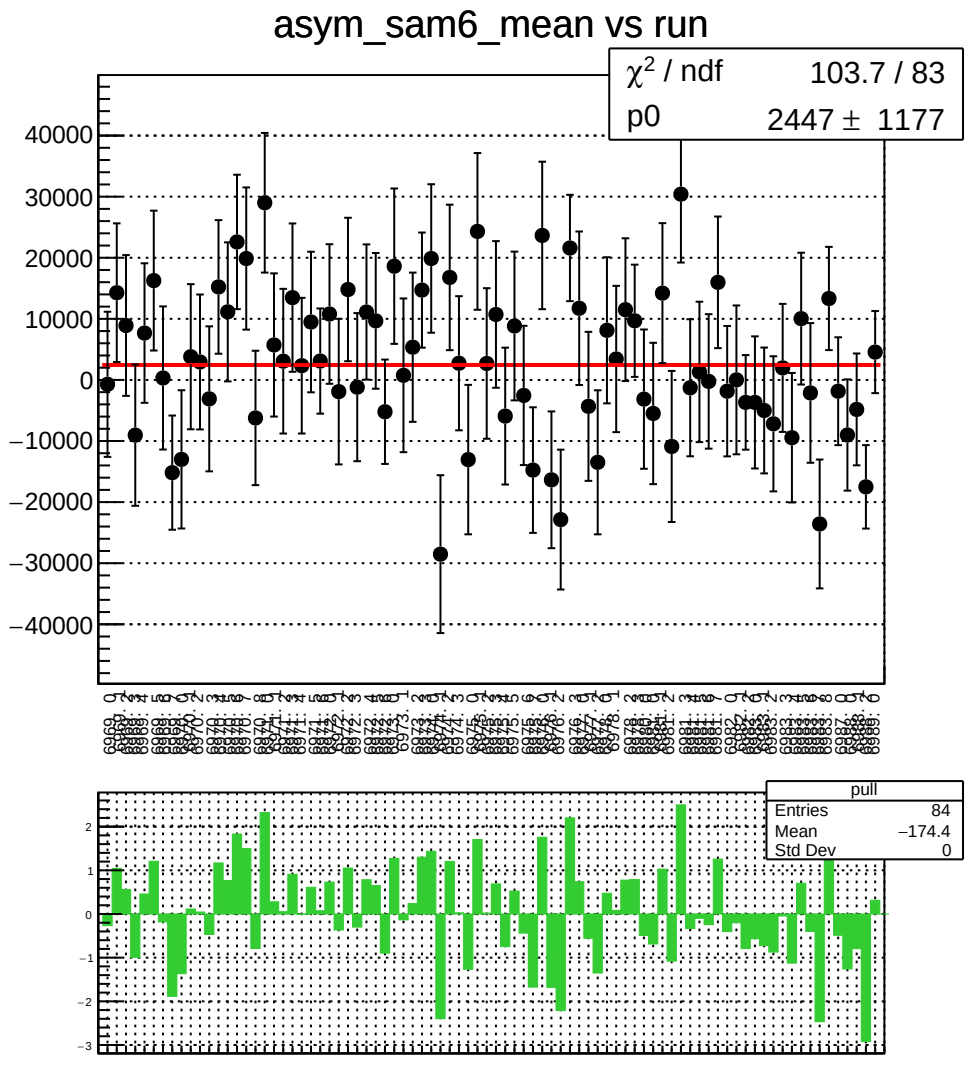

eigen_dit_asym_sam6_mean vs run
χ² / ndf 84.33 / 83
p0 412.5 ± 179.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 118.6
Std Dev 0
pull1D
Entries 84
Mean −0.01084
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

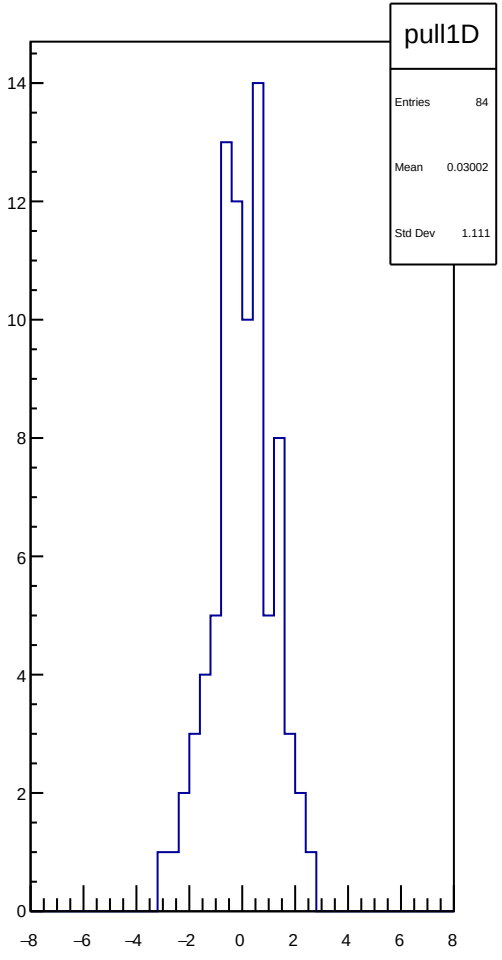

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1978 / 83
p0 164.2 ± 0.127
200
190
180
170
160

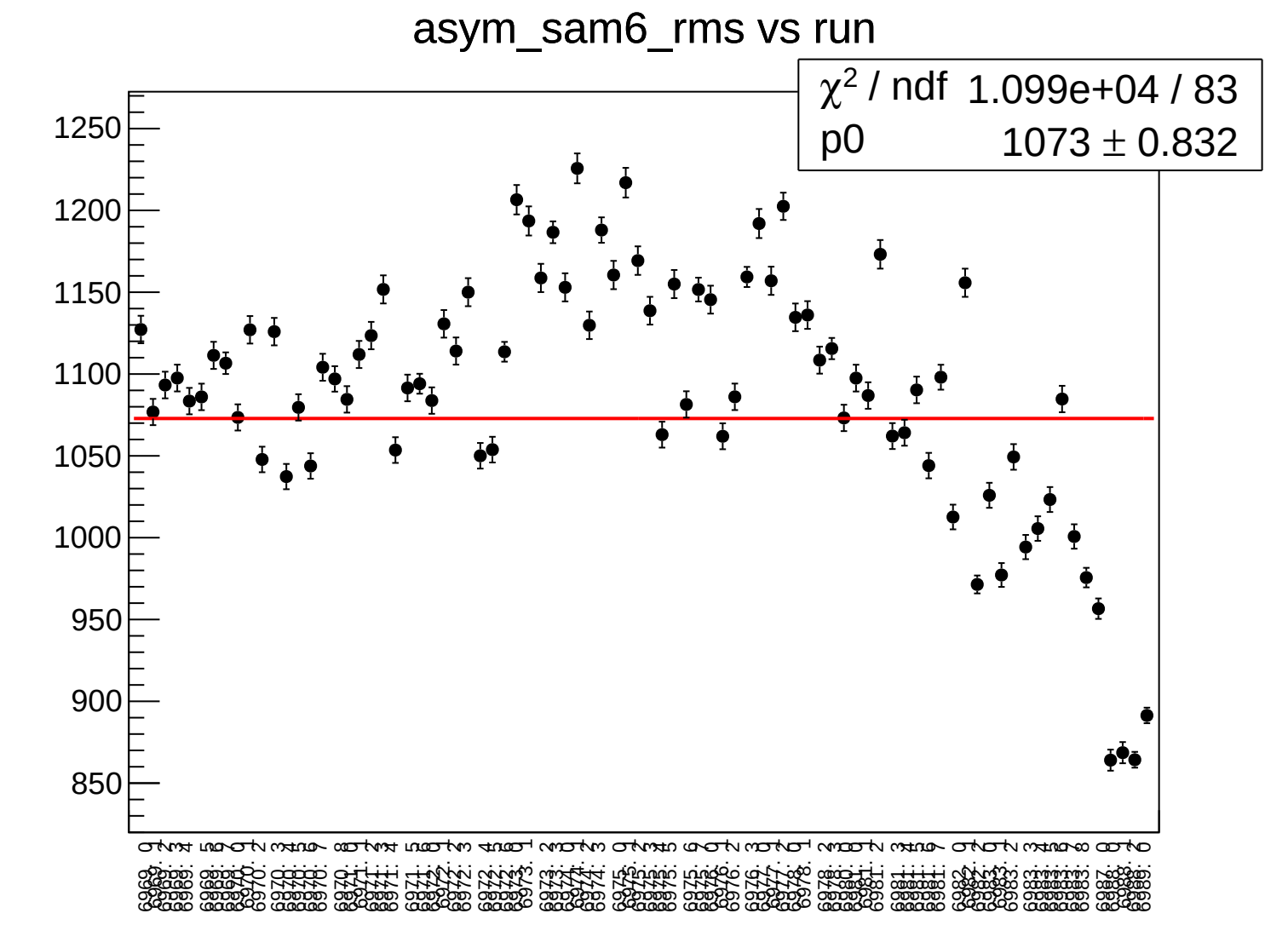

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 97.8 / 83
p0 −2085 ± 1176
pull
Entries 84
Mean −177.7
Std Dev 0

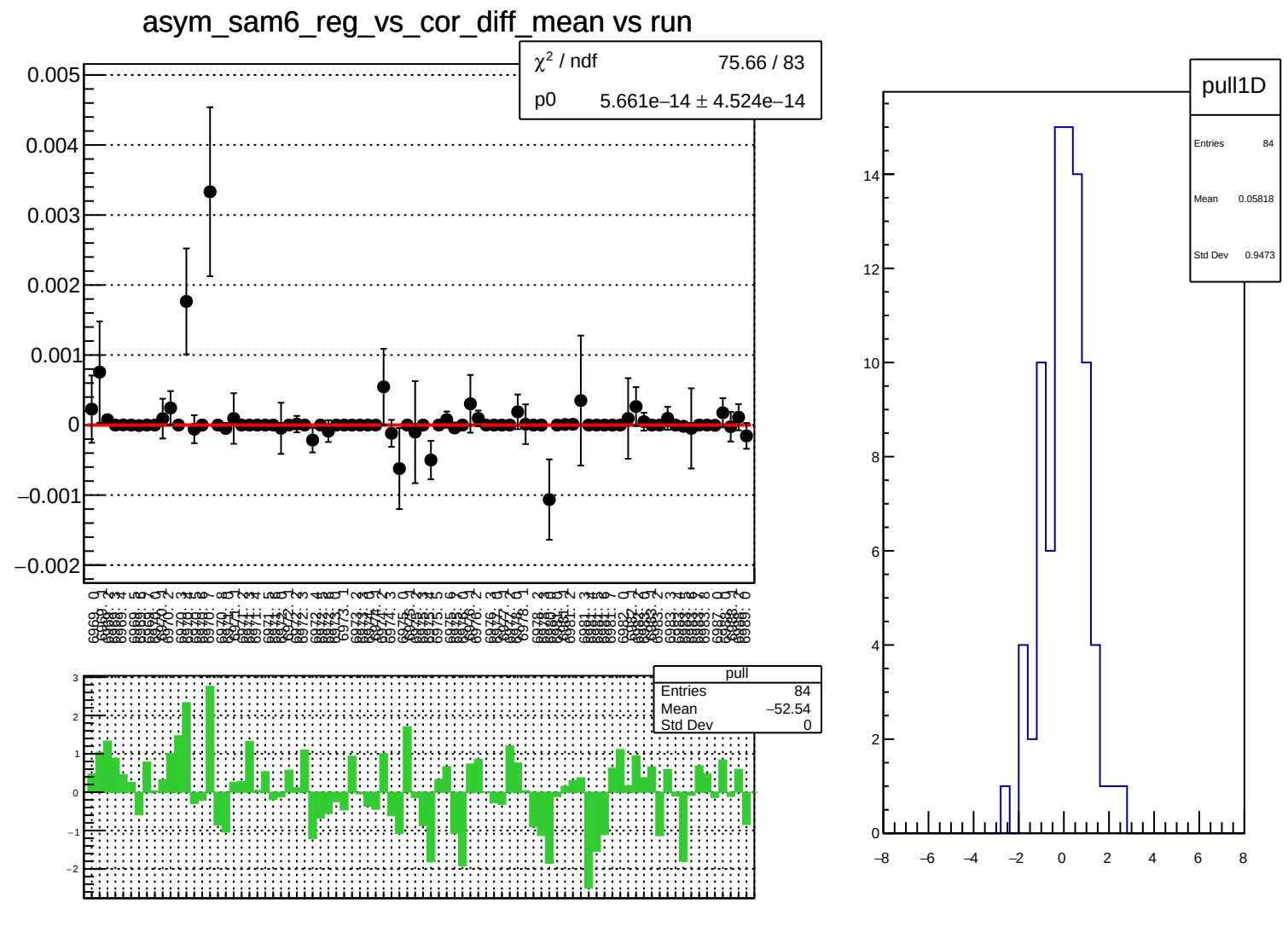

pull1D
Entries 84
Mean −0.02895
Std Dev 1.079

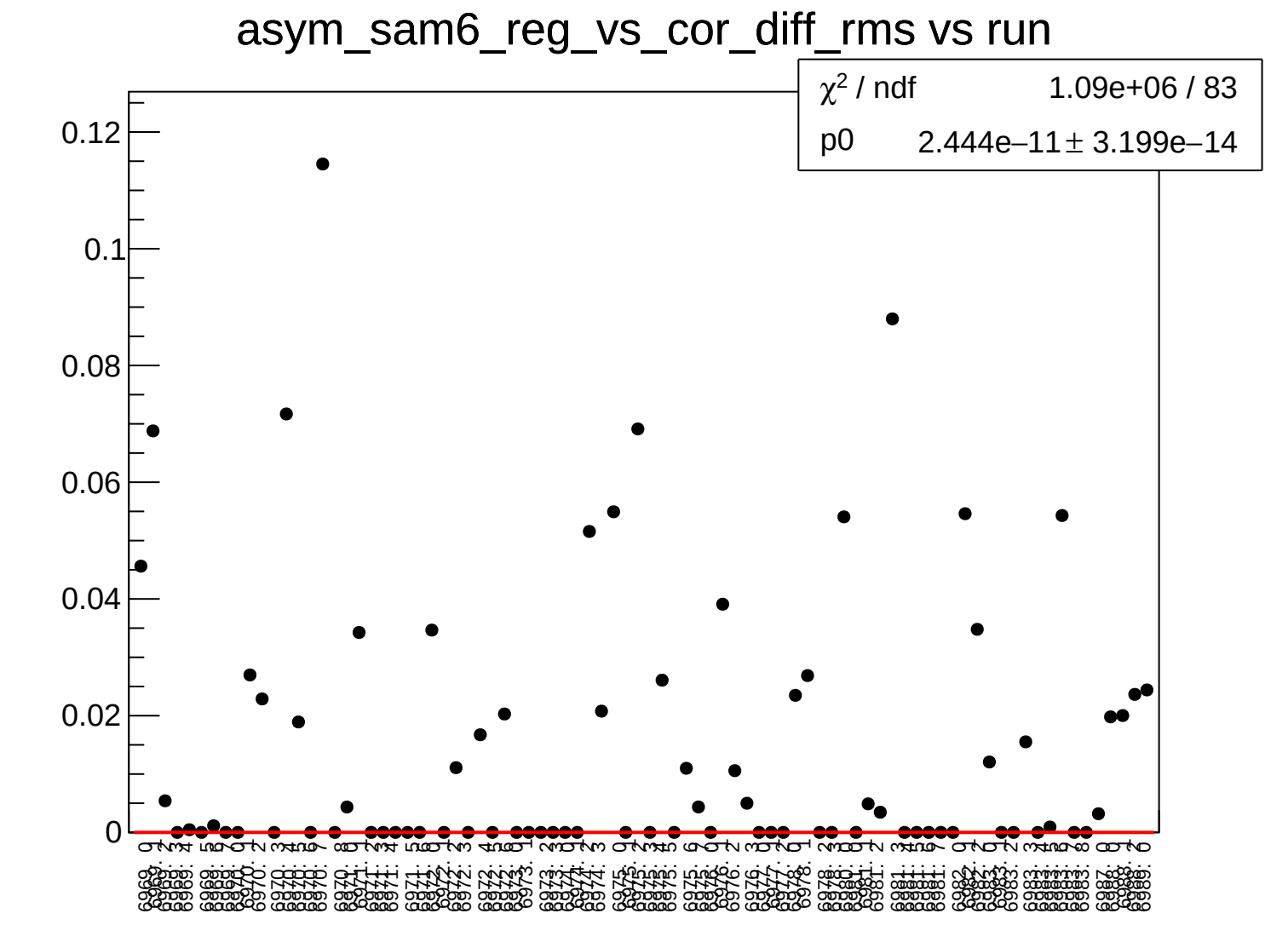

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1.061e+04 / 83
p0 1072 ± 0.8314
1250
1200
1150
1100
1050
1000
950
900
850

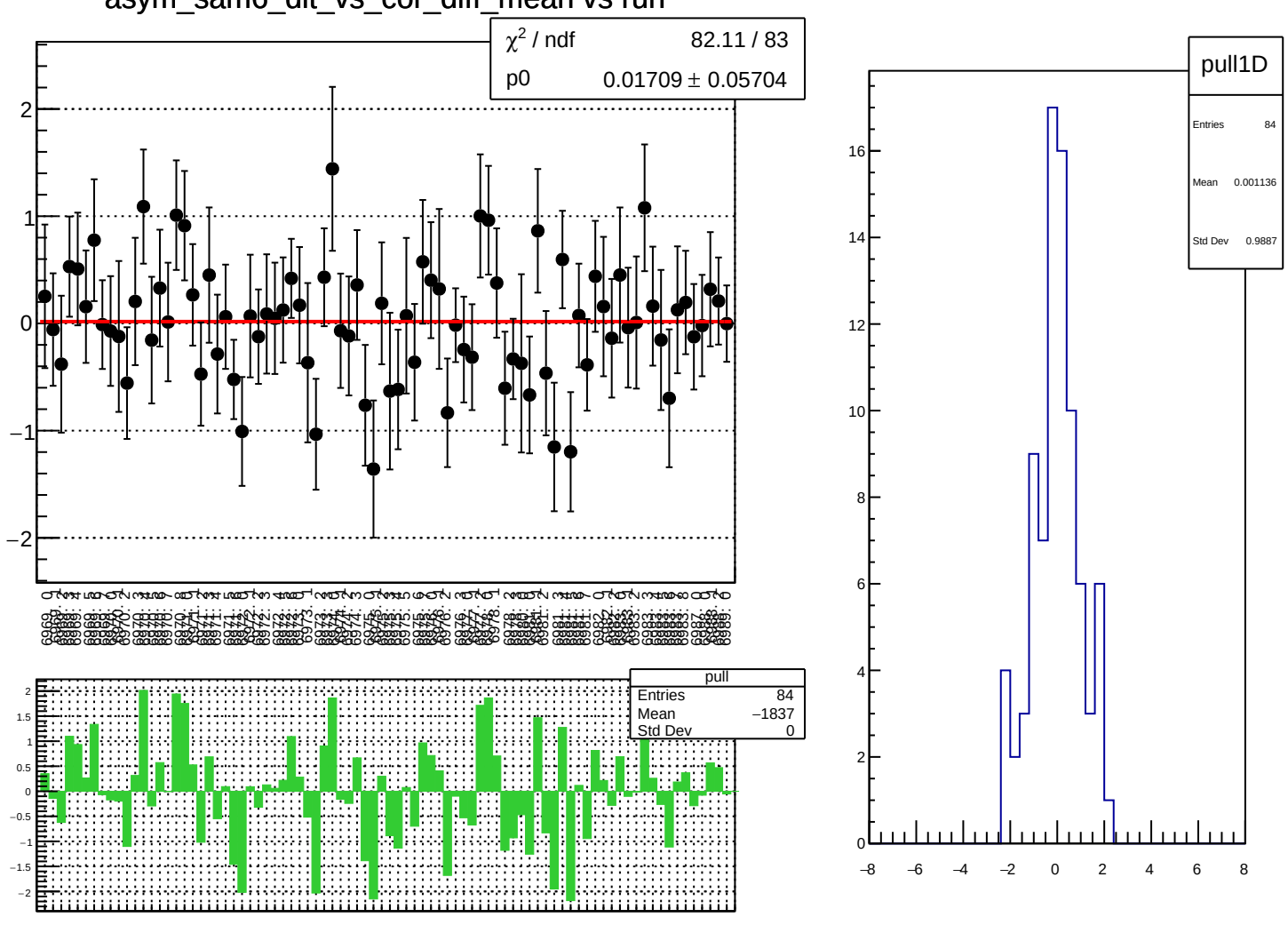

asym_sam6_mean vs run
χ² / ndf 103.7 / 83
p0 2447 ± 1177
pull
Entries 84
Mean −174.4
Std Dev 0

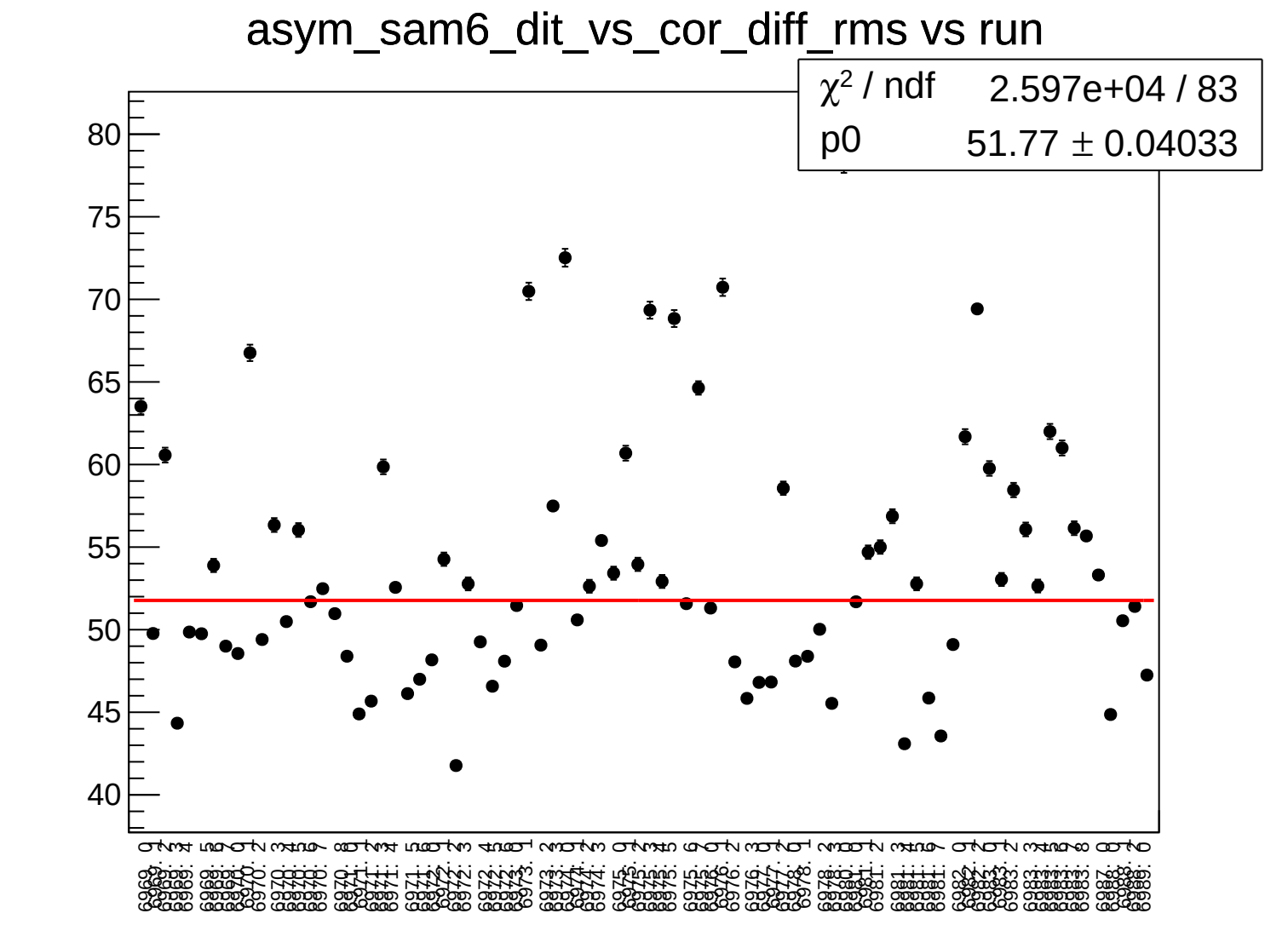

pull1D
Entries 84
Mean 0.03002
Std Dev 1.111

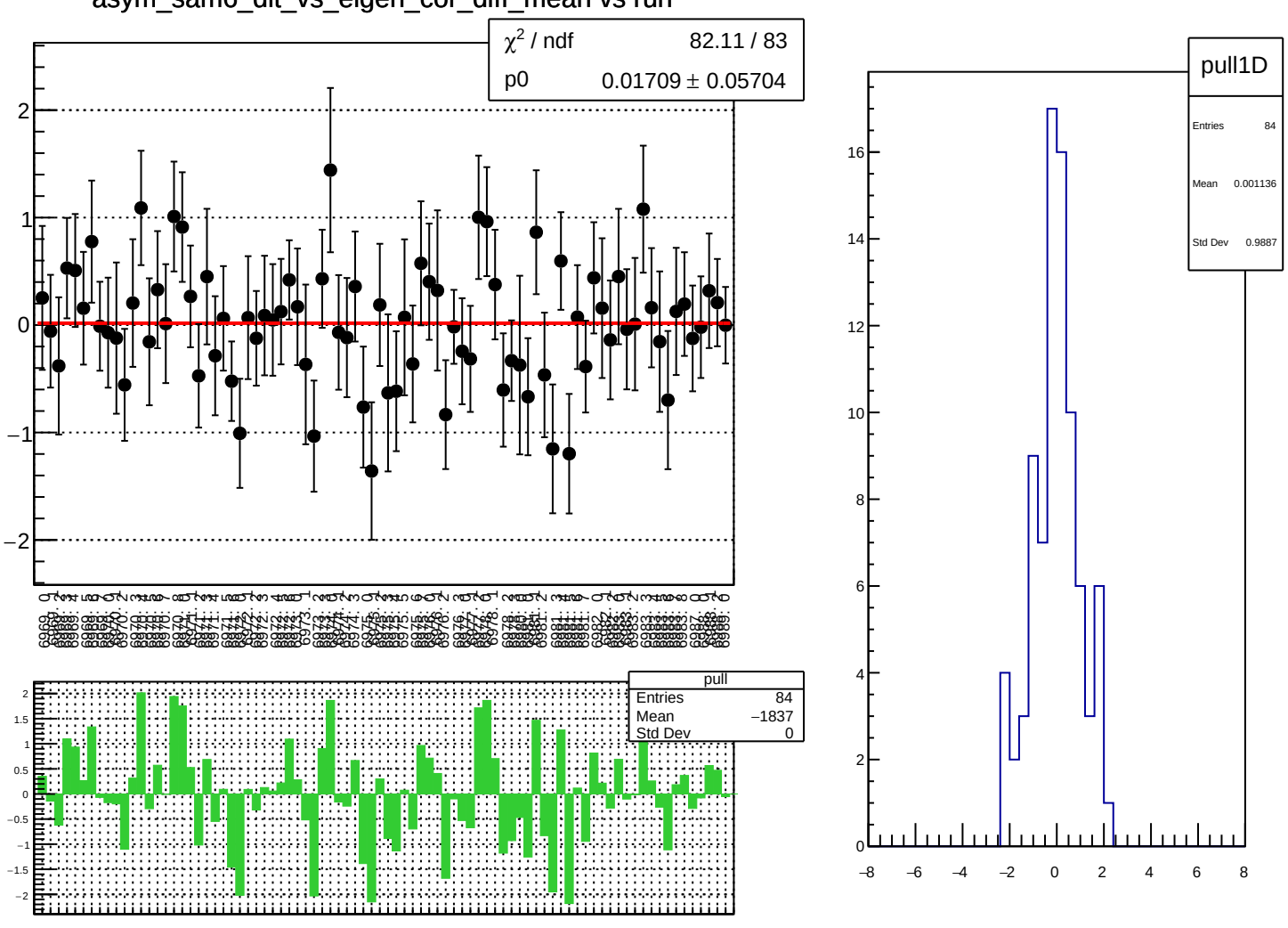

asym_sam6_rms vs run
χ² / ndf 1.099e+04 / 83
p0 1073 ± 0.832
1250
1200
1150
1100
1050
1000
950
900
850

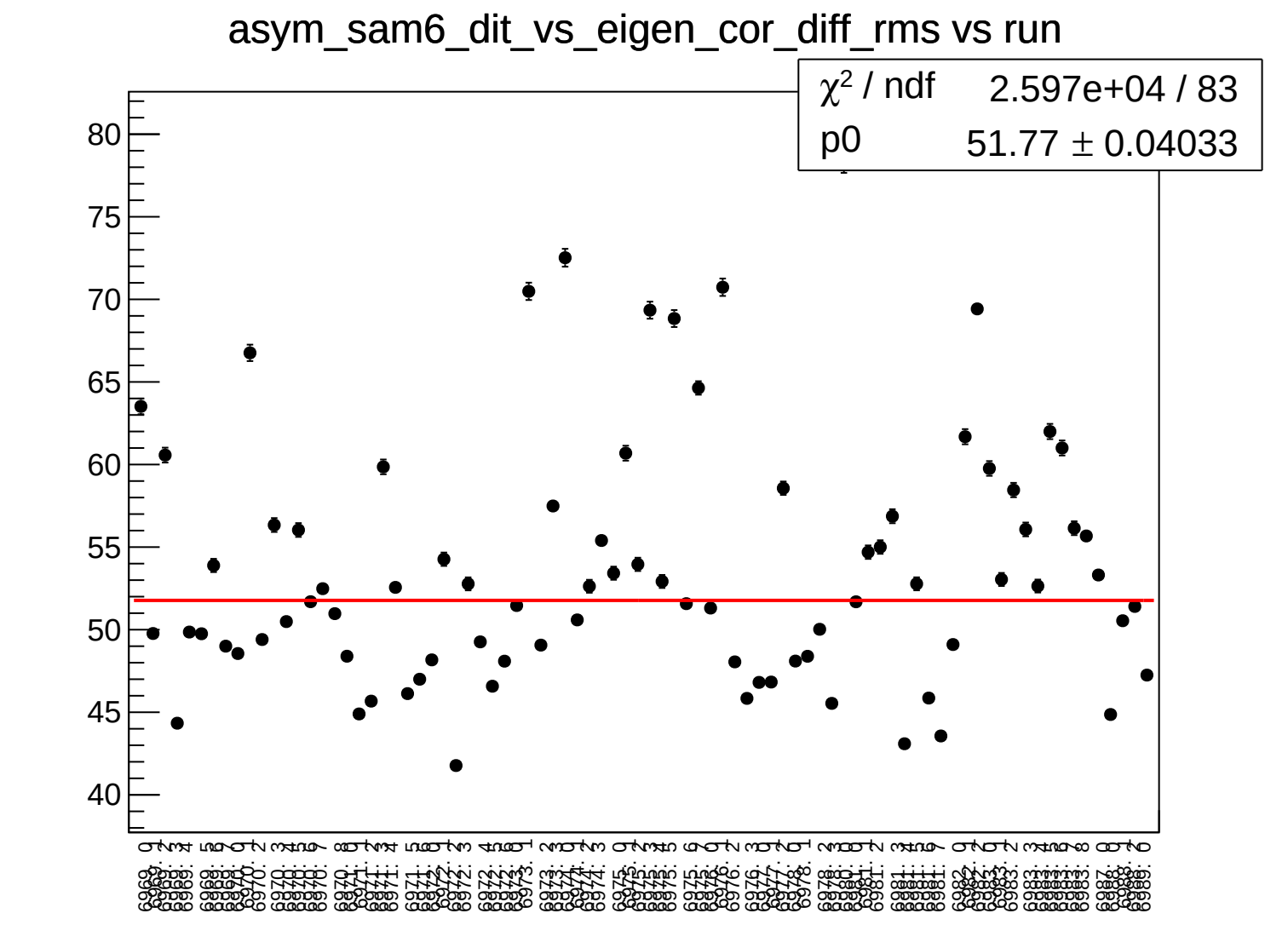

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 75.66 / 83
p0 5.661e−14 ± 4.524e−14
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 84
Mean −52.54
Std Dev 0
pull1D
Entries 84
Mean 0.05818
Std Dev 0.9473

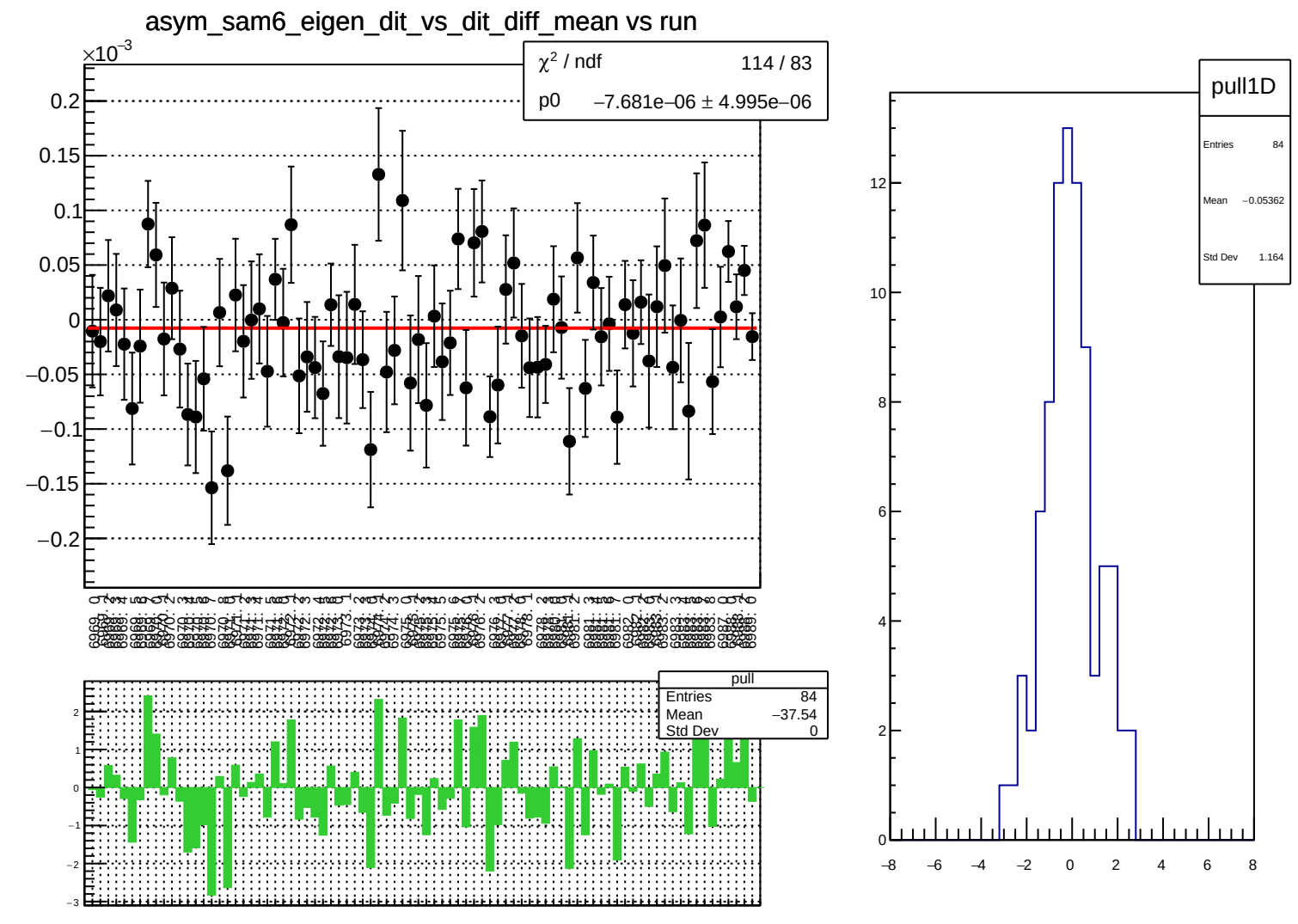

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 83
p0 2.444e−11 ± 3.199e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

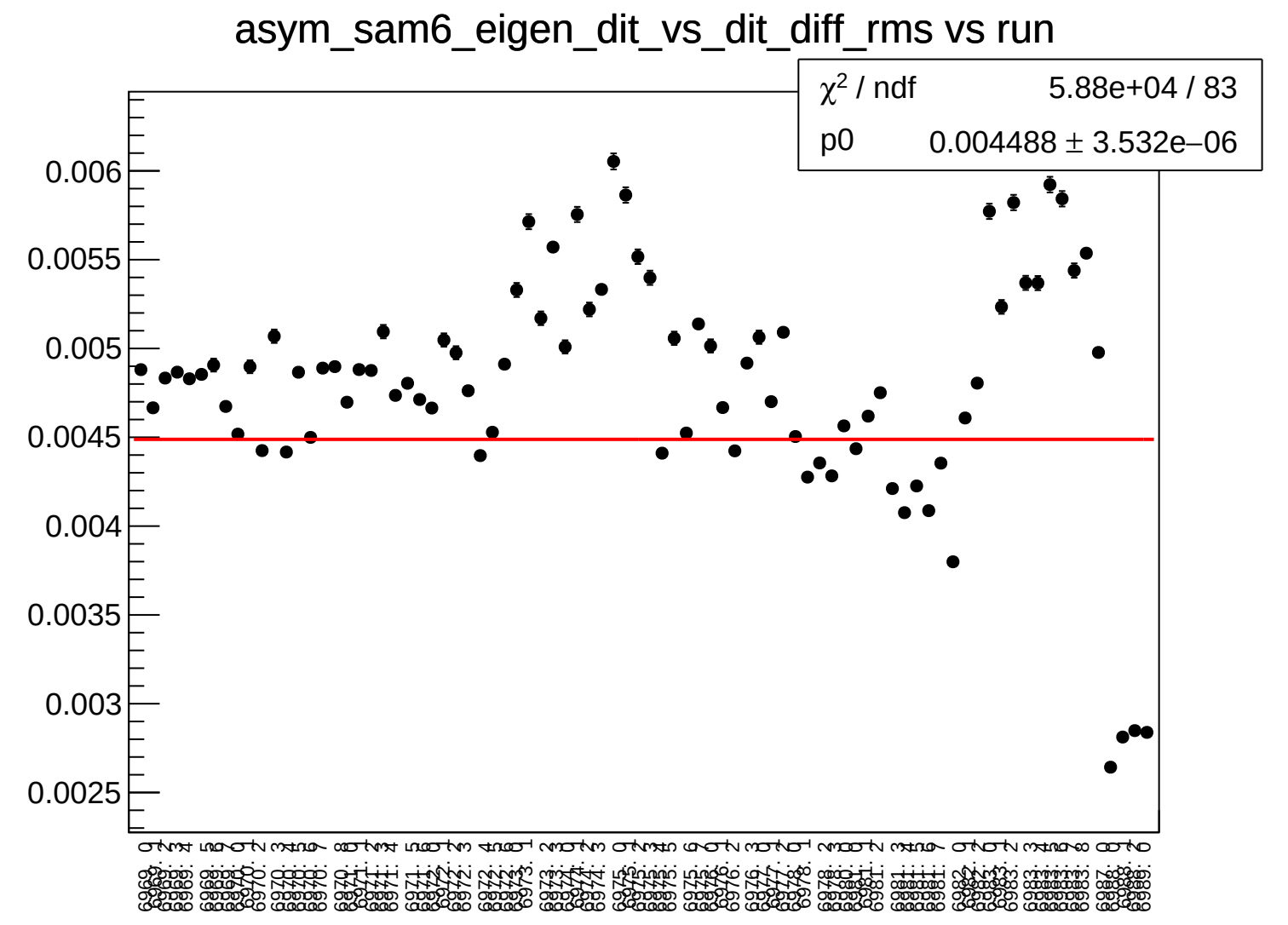

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 82.11 / 83
p0 0.01709 ± 0.05704
pull
Entries 84
Mean −1837
Std Dev 0
pull1D
Entries 84
Mean 0.001136
Std Dev 0.9887

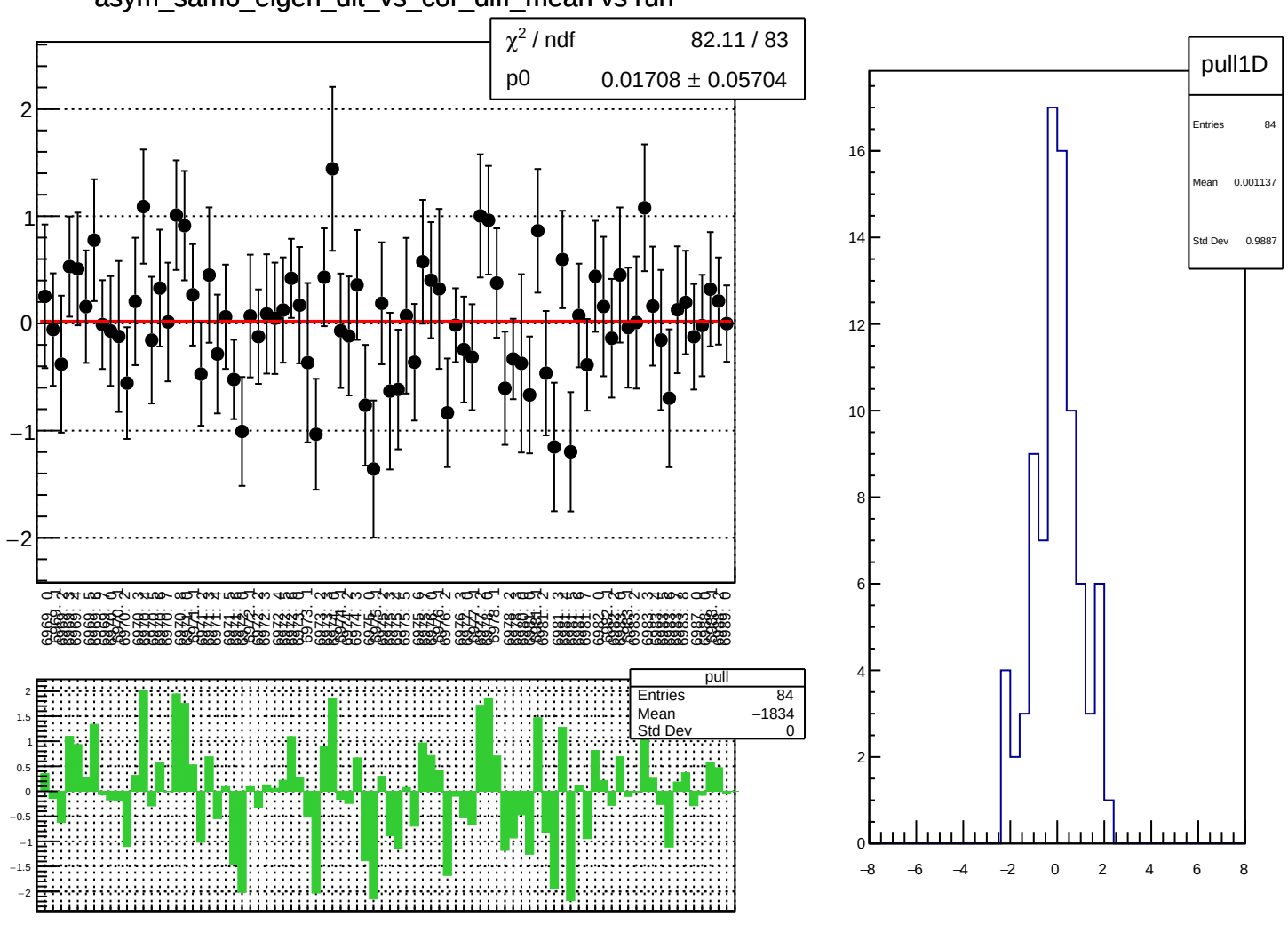

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 2.597e+04 / 83
p0 51.77 ± 0.04033
80
75
70
65
60
55
50
45
40

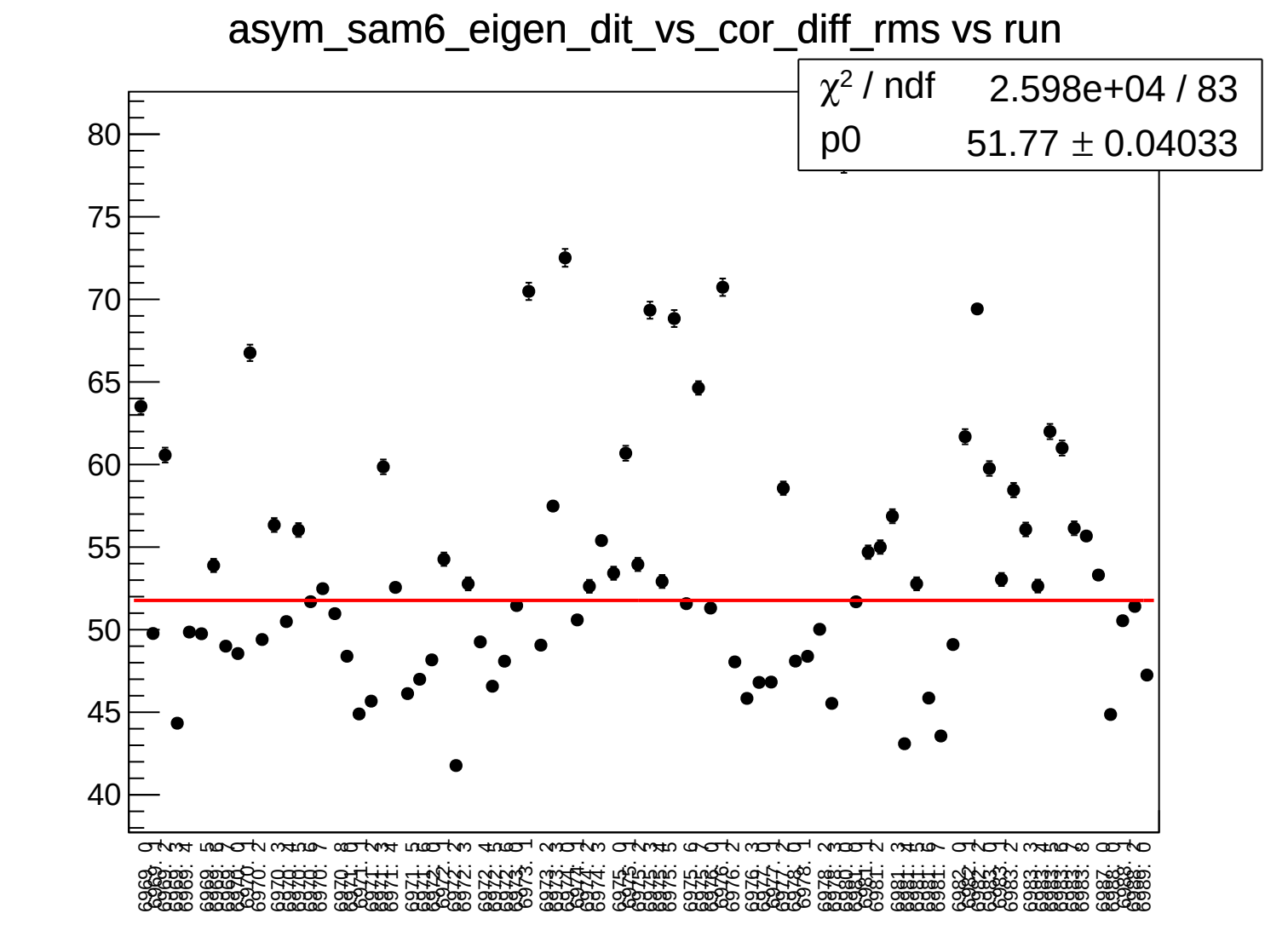

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.11 / 83
p0 0.01709 ± 0.05704
pull
Entries 84
Mean −1837
Std Dev 0
pull1D
Entries 84
Mean 0.001136
Std Dev 0.9887

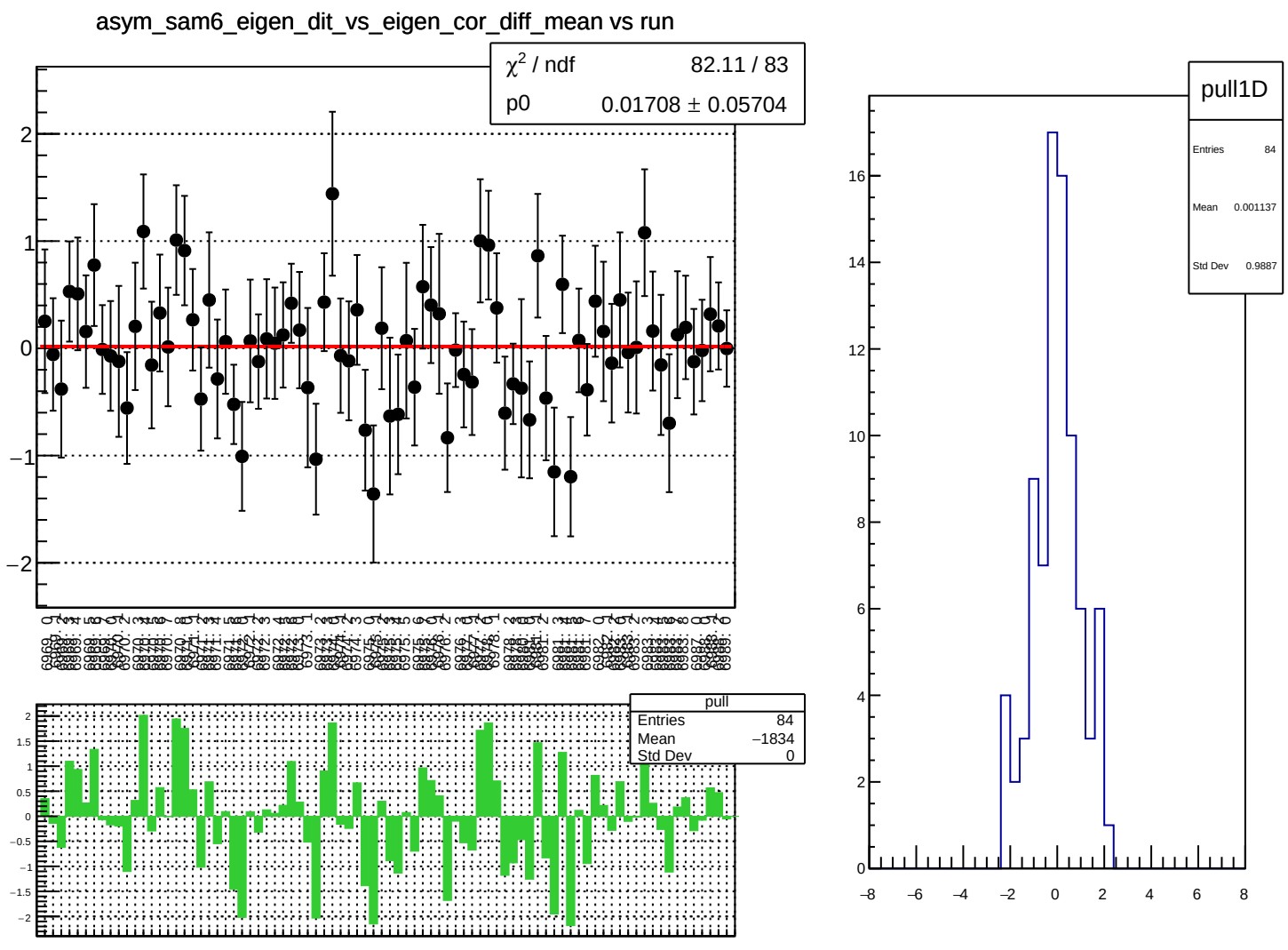

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.597e+04 / 83
p0 51.77 ± 0.04033
80
75
70
65
60
55
50
45
40

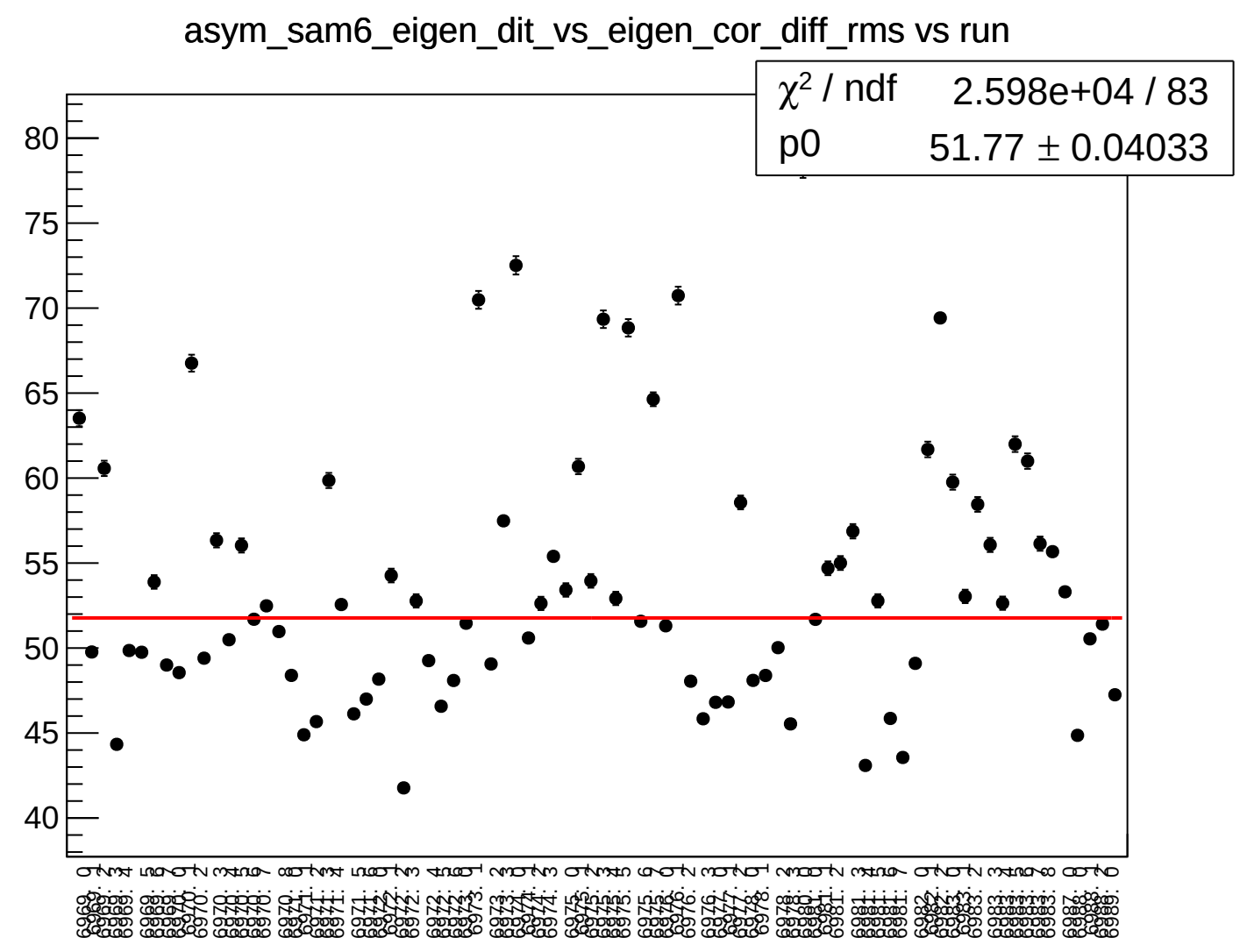

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 114 / 83
p0 −7.681e−06 ± 4.995e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 84
Mean −37.54
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.05362
Std Dev 1.164
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

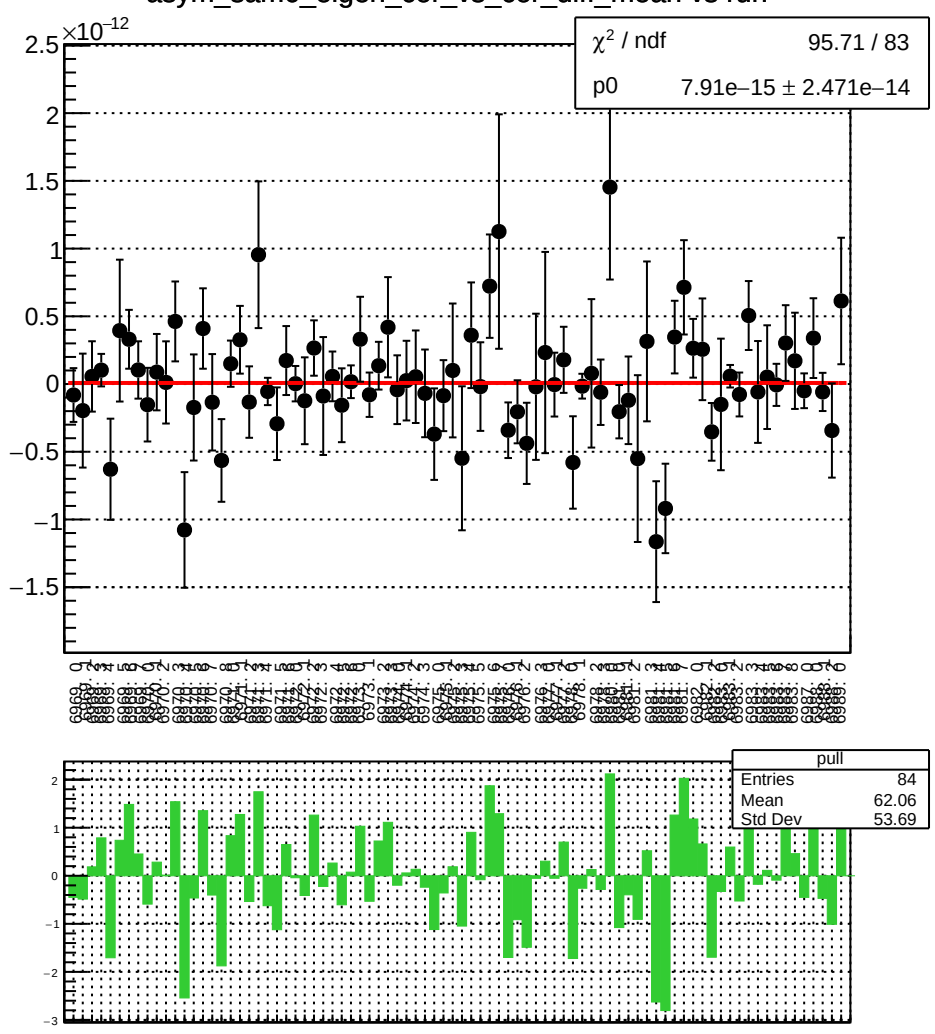

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.88e+04 / 83
p0 0.004488 ± 3.532e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

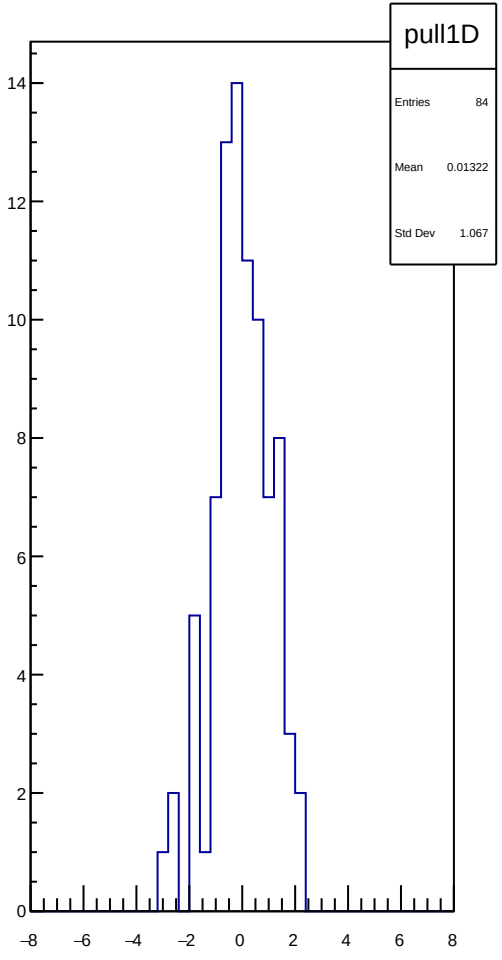

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.11 / 83
p0 0.01708 ± 0.05704
pull
Entries 84
Mean −1834
Std Dev 0
pull1D
Entries 84
Mean 0.001137
Std Dev 0.9887

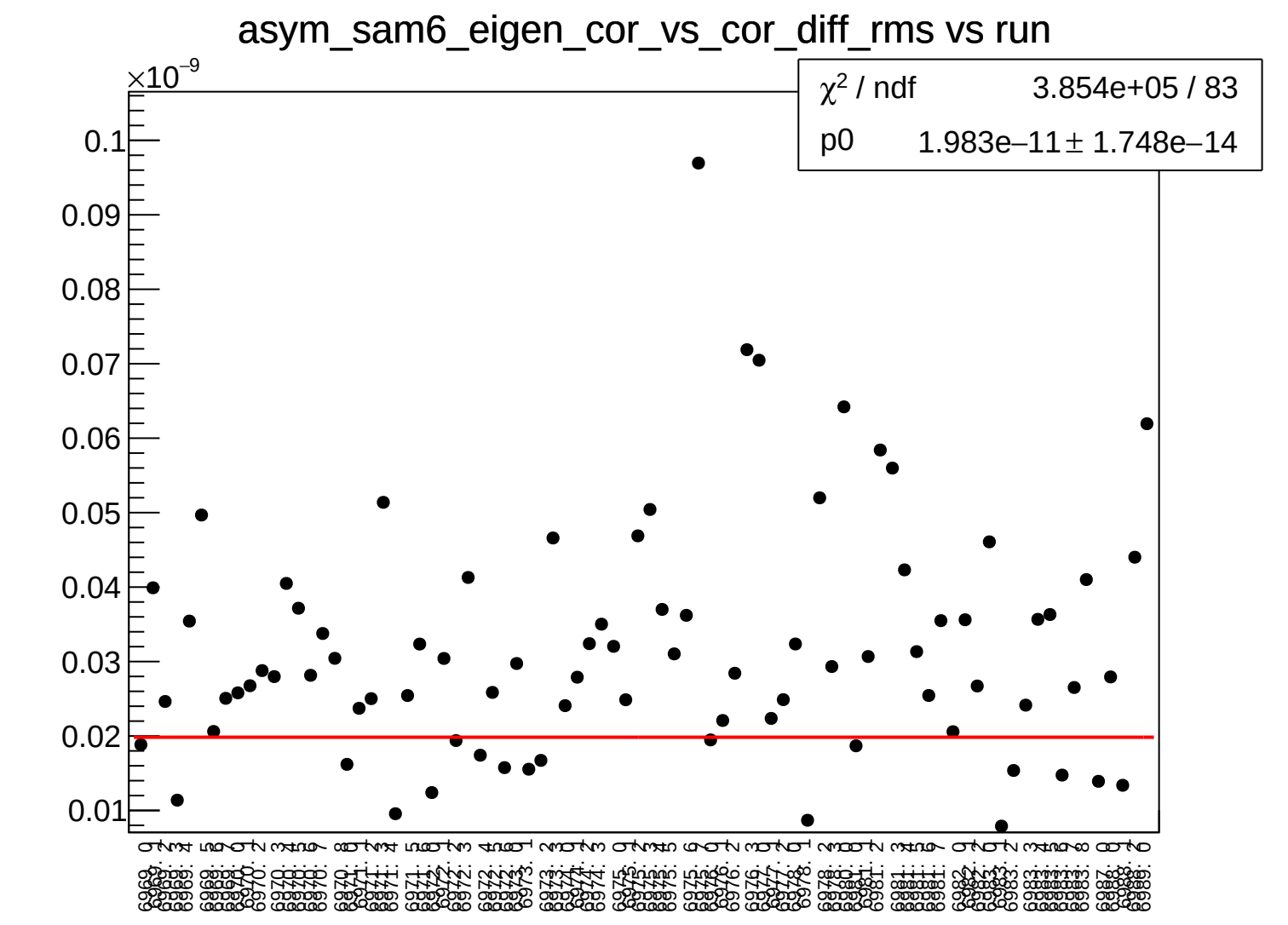

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.598e+04 / 83
p0 51.77 ± 0.04033
80
75
70
65
60
55
50
45
40

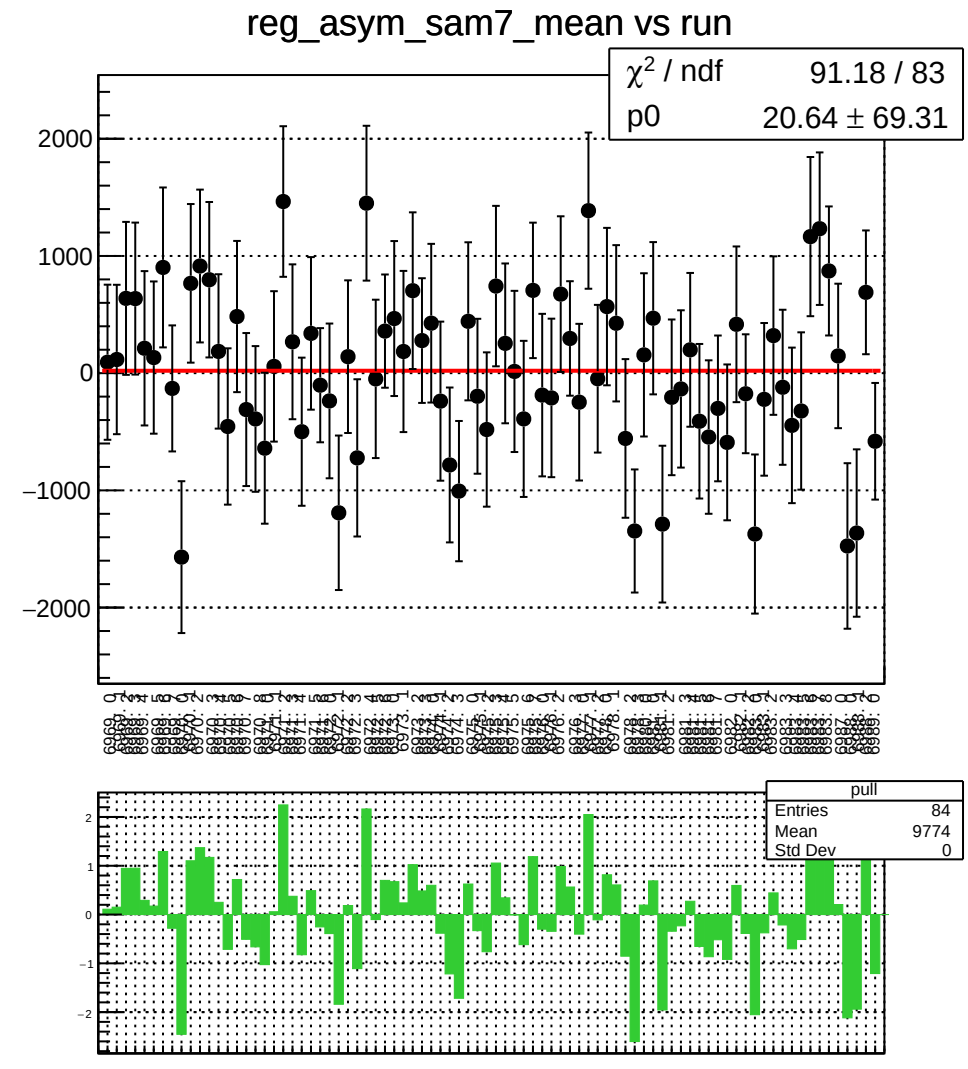

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.11 / 83
p0 0.01708 ± 0.05704
pull
Entries 84
Mean −1834
Std Dev 0
pull1D
Entries 84
Mean 0.001137
Std Dev 0.9887

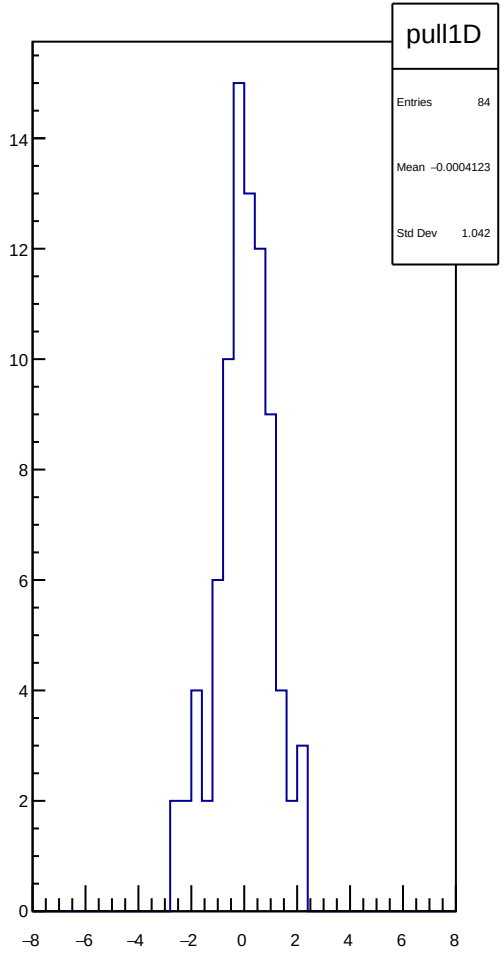

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.598e+04 / 83
p0 51.77 ± 0.04033
80
75
70
65
60
55
50
45
40

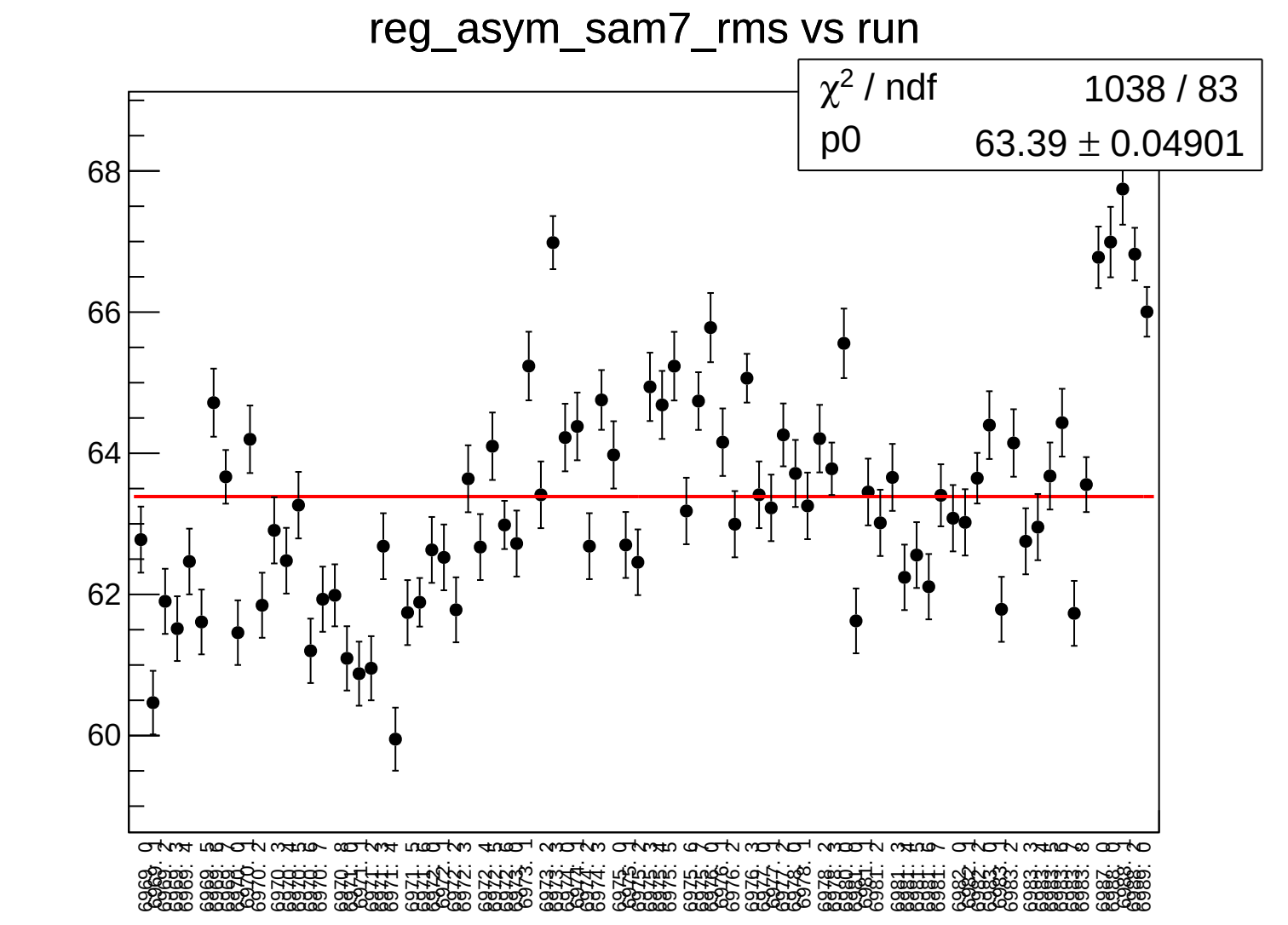

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.71 / 83
p0 7.91e−15 ± 2.471e−14
pull
Entries 84
Mean 62.06
Std Dev 53.69

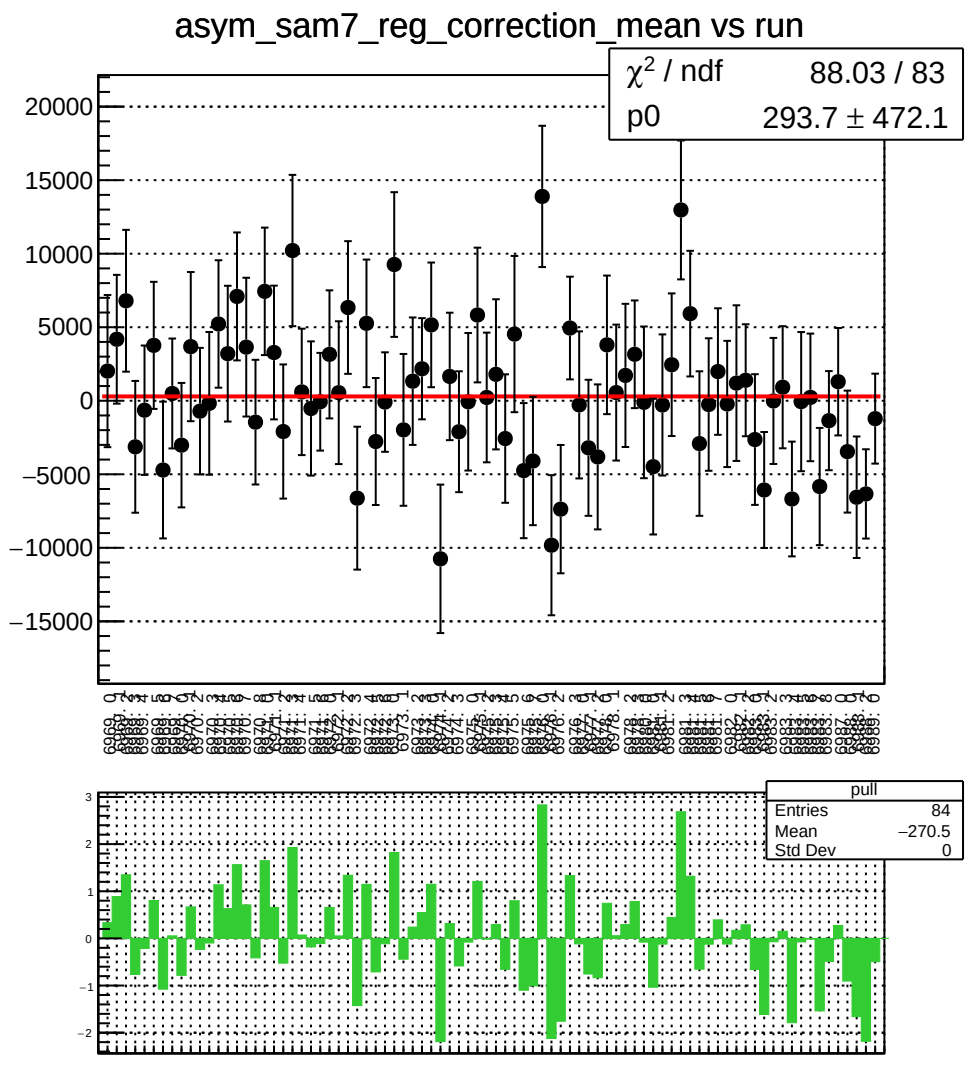

pull1D
Entries 84
Mean 0.01322
Std Dev 1.067

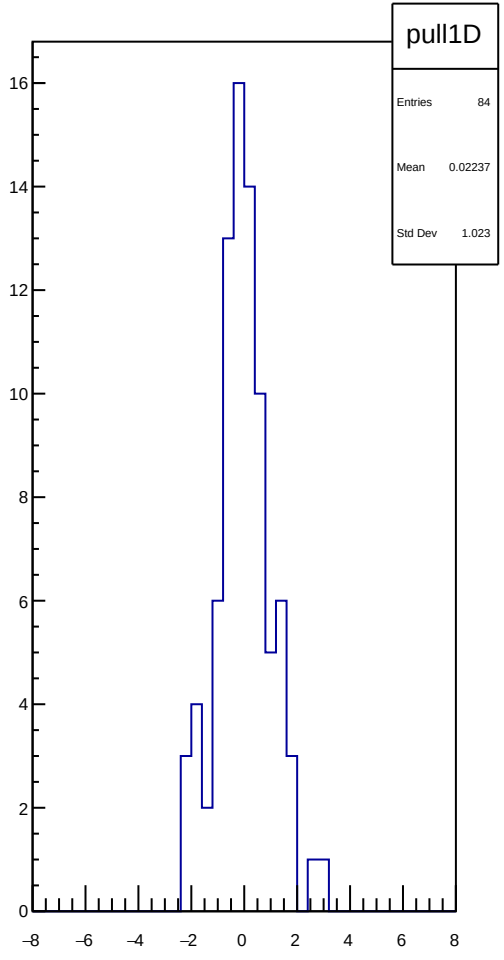

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.854e+05 / 83
p0 1.983e−11 ± 1.748e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

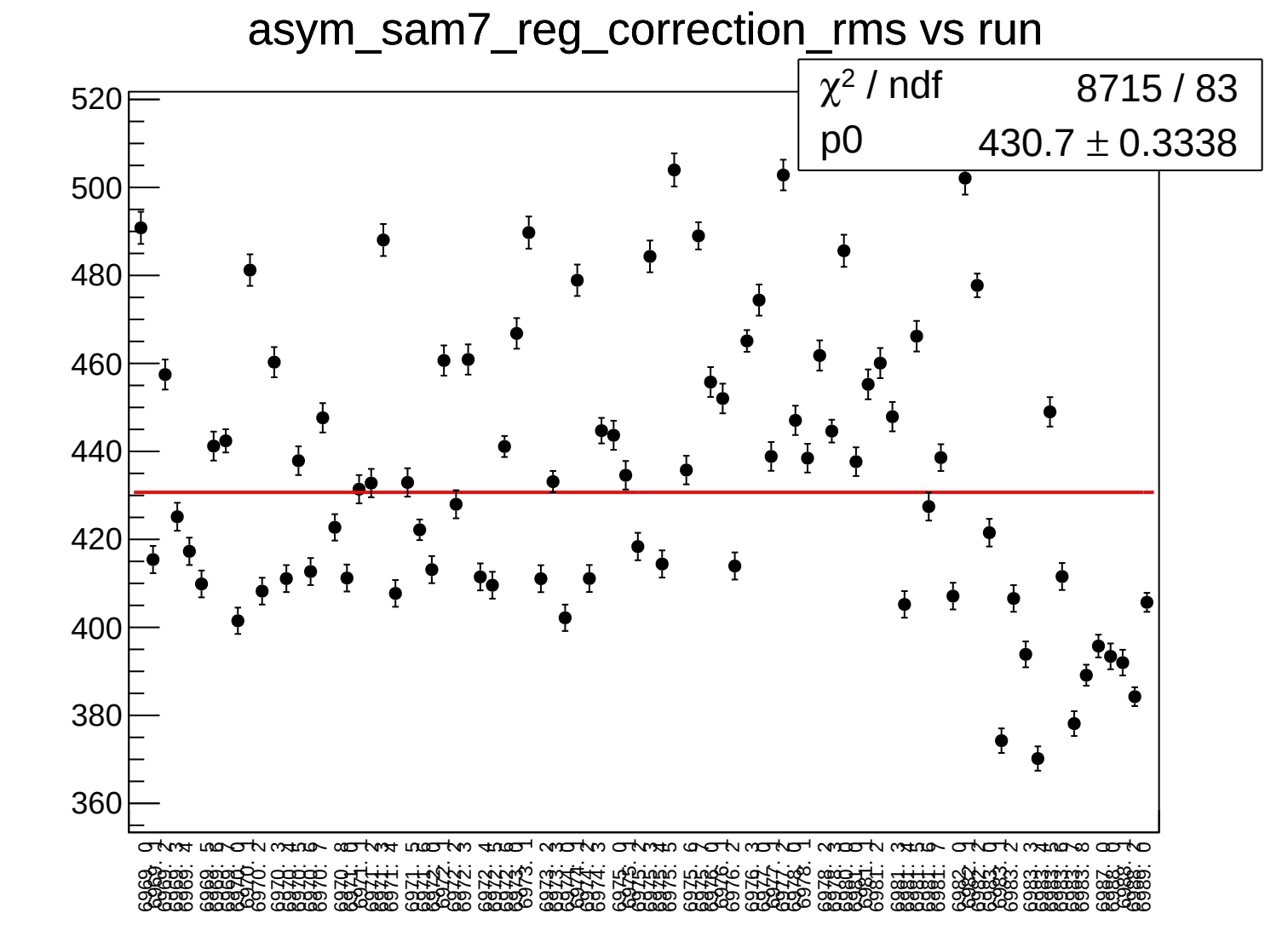

reg_asym_sam7_mean vs run
χ² / ndf 91.18 / 83
p0 20.64 ± 69.31
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 9774
Std Dev 0
2
1
0
−1
−2

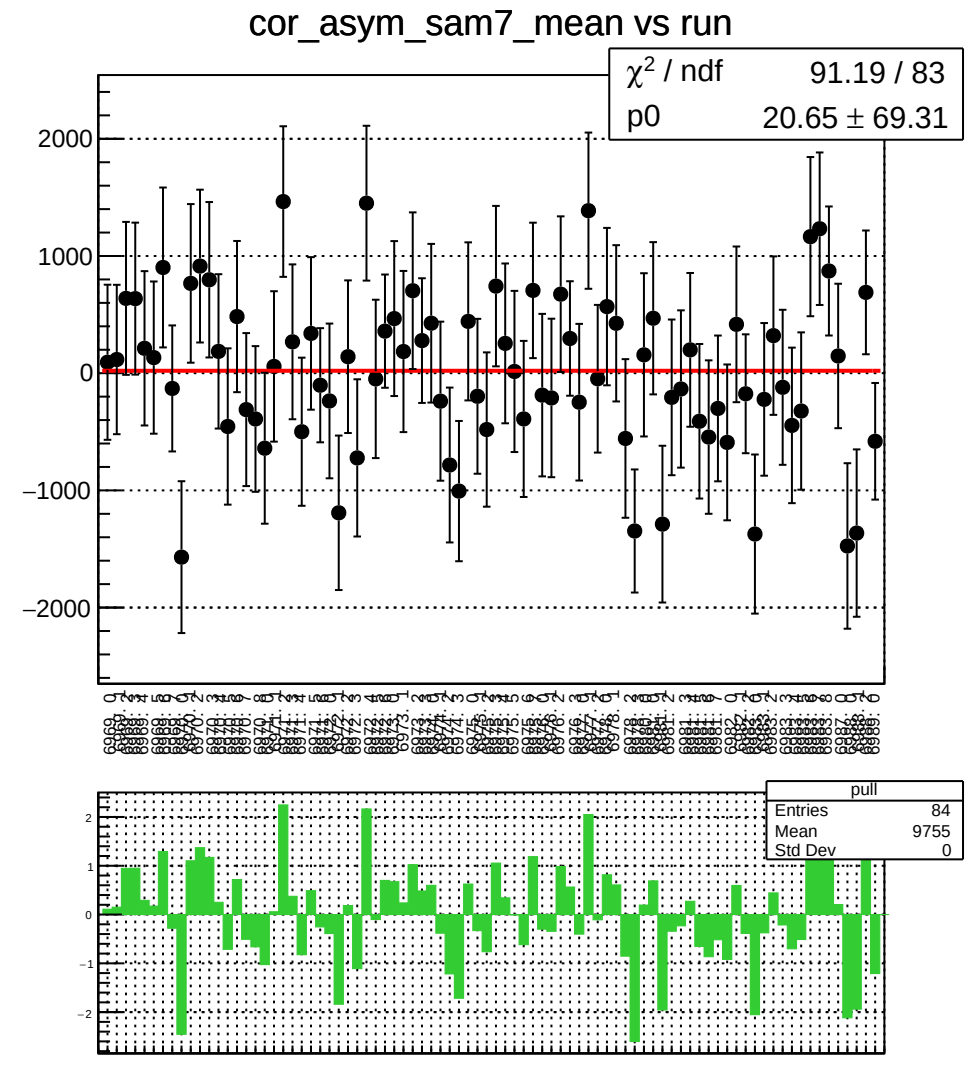

pull1D
Entries 84
Mean −0.0004123
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

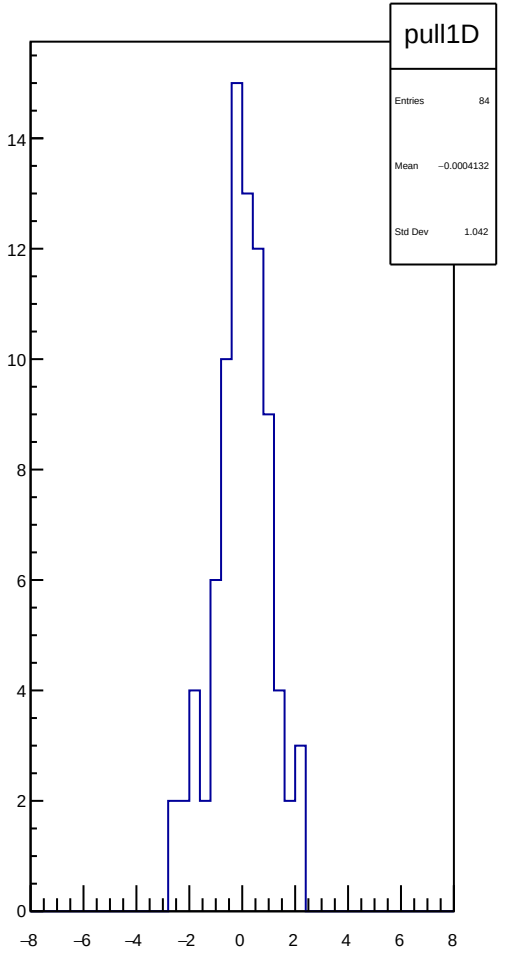

reg_asym_sam7_rms vs run
χ^2 / ndf 1038 / 83
p0 63.39 ± 0.04901
68
66
64
62
60

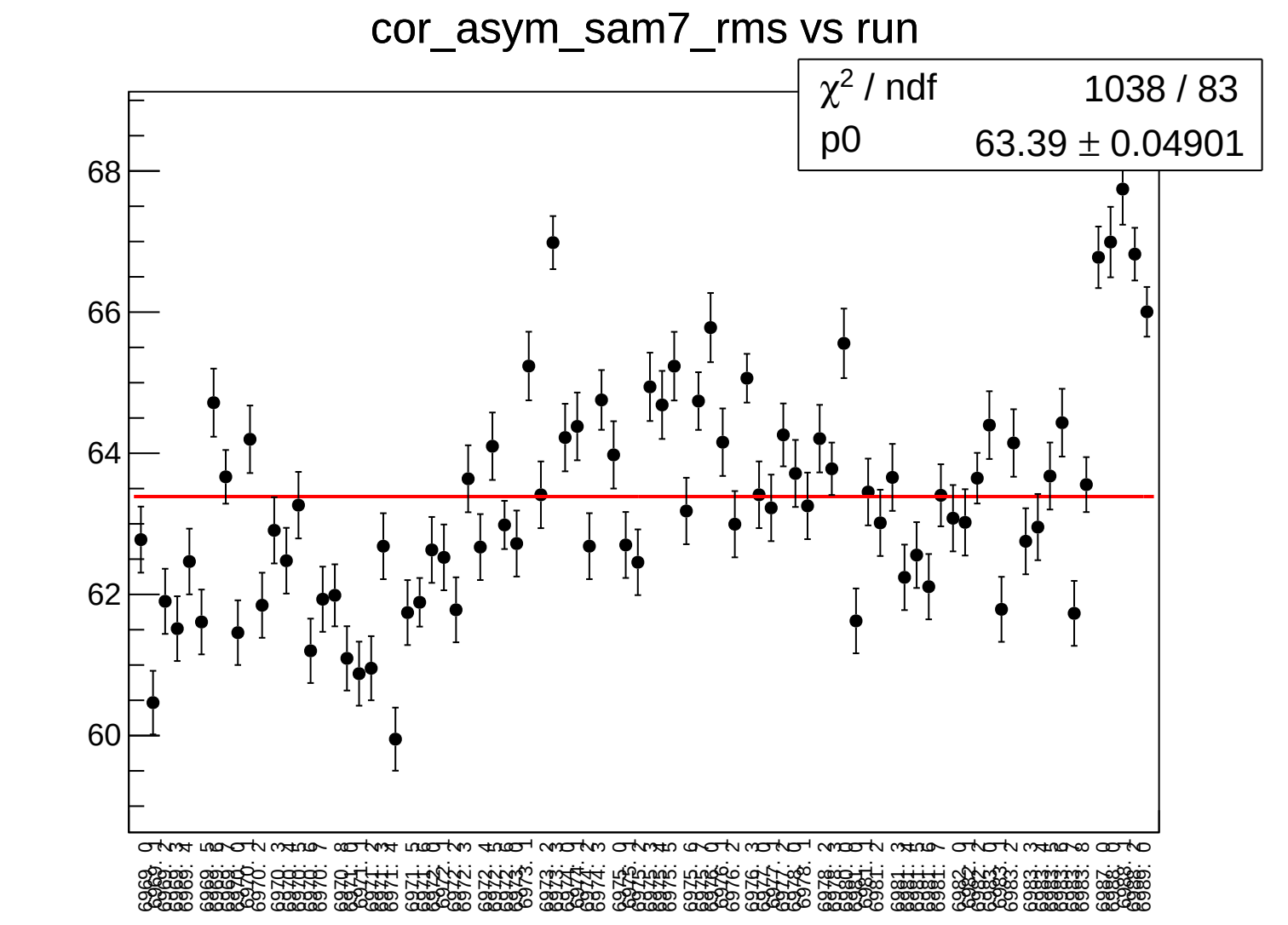

asym_sam7_reg_correction_mean vs run
χ² / ndf 88.03 / 83
p0 293.7 ± 472.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −270.5
Std Dev 0
3
2
1
0
−1
−2

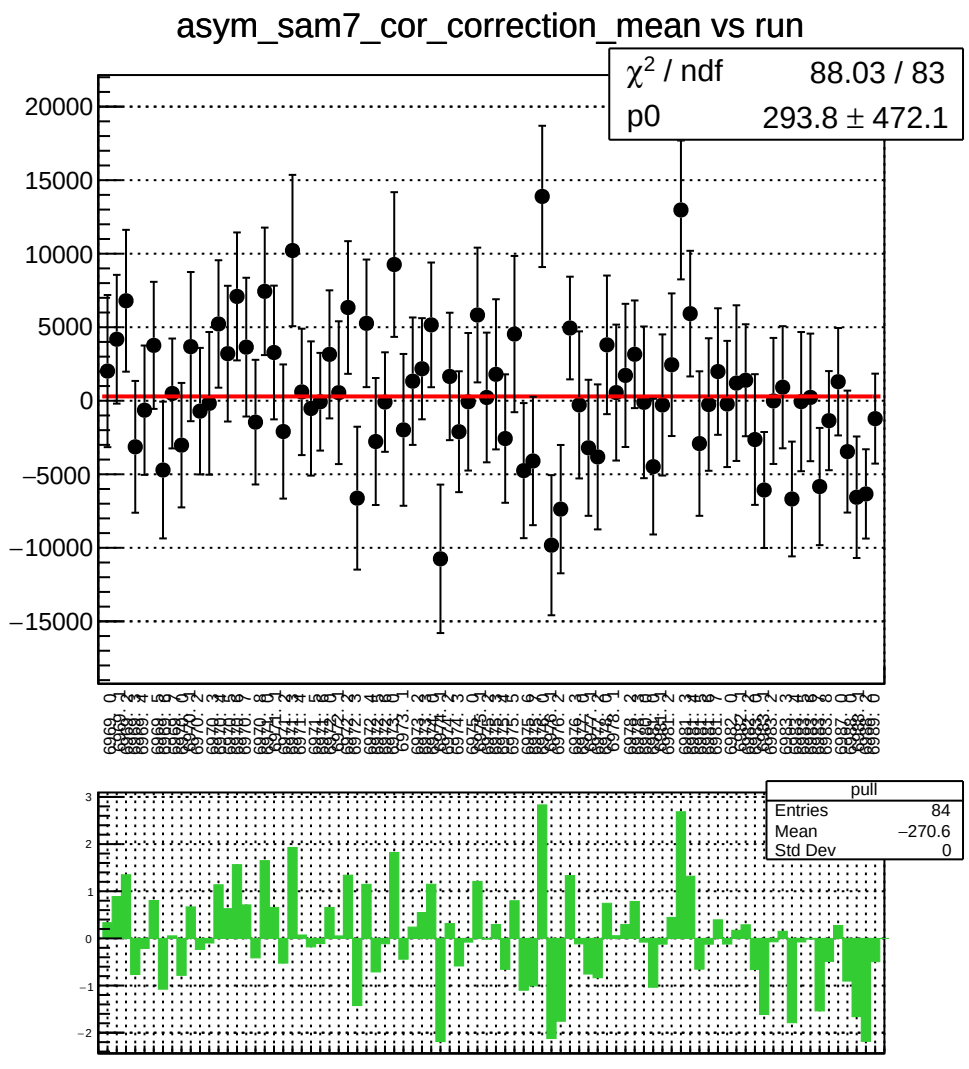

pull1D
Entries 84
Mean 0.02237
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

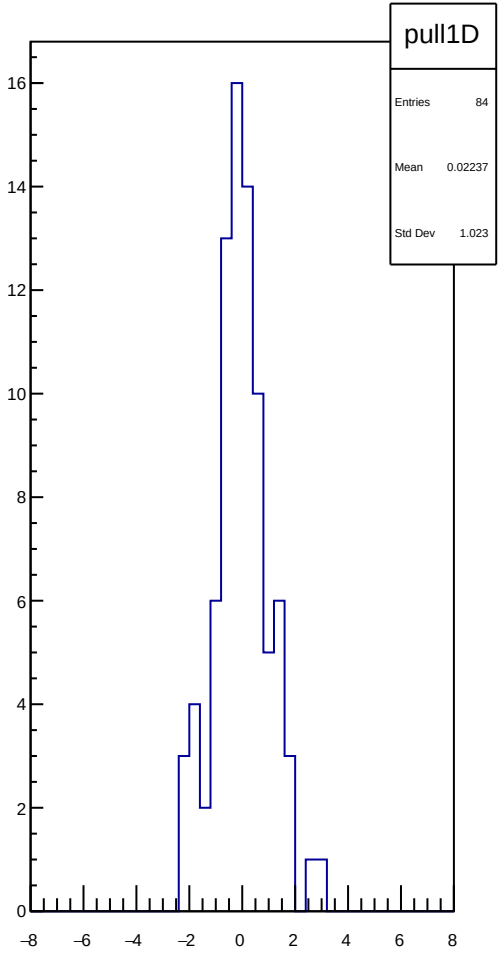

asym_sam7_reg_correction_rms vs run
χ^2 / ndf 8715 / 83
p0 430.7 ± 0.3338
520
500
480
460
440
420
400
380
360

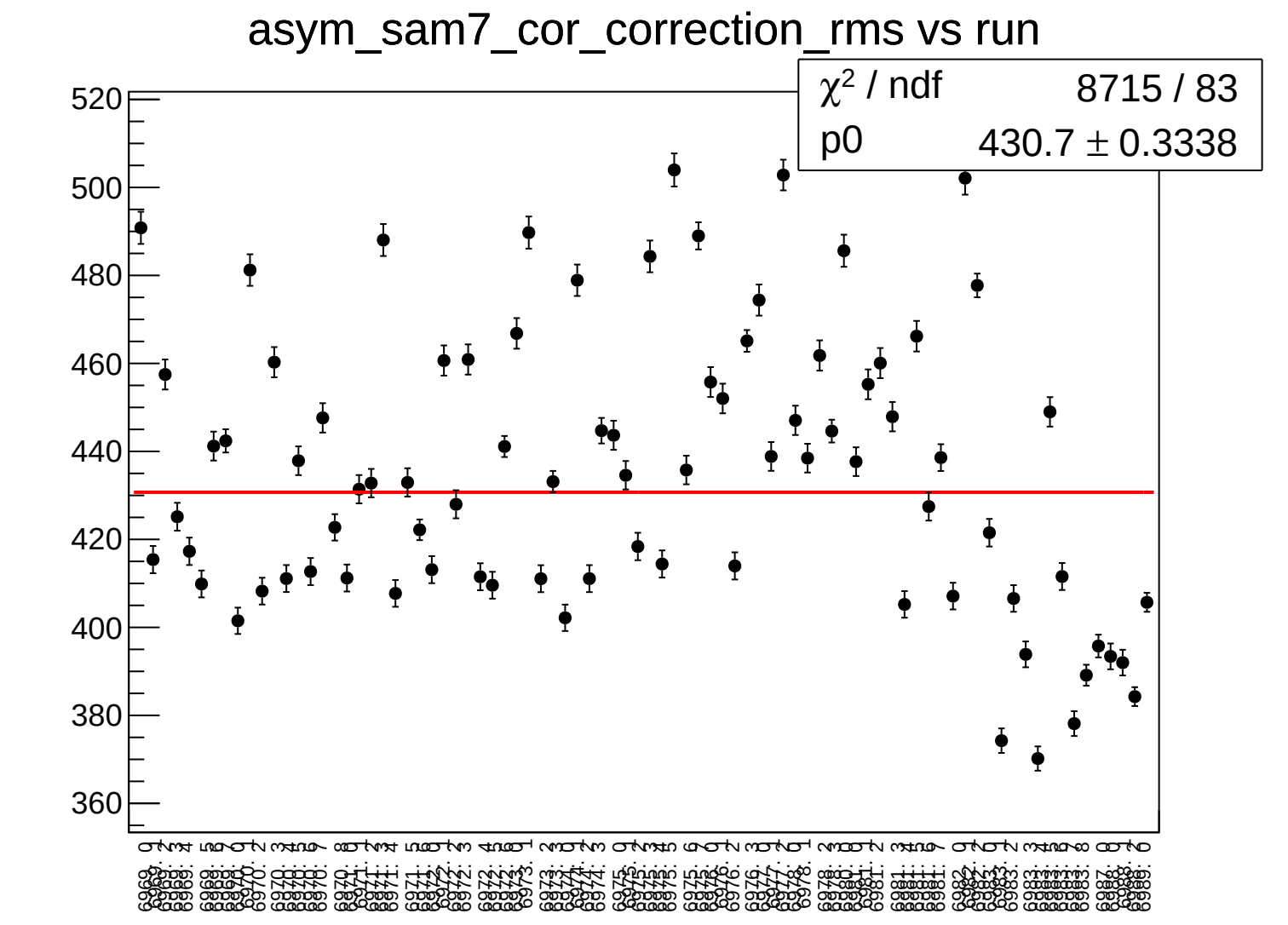

cor_asym_sam7_mean vs run
χ² / ndf 91.19 / 83
p0 20.65 ± 69.31
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 9755
Std Dev 0
2
1
0
−1
−2

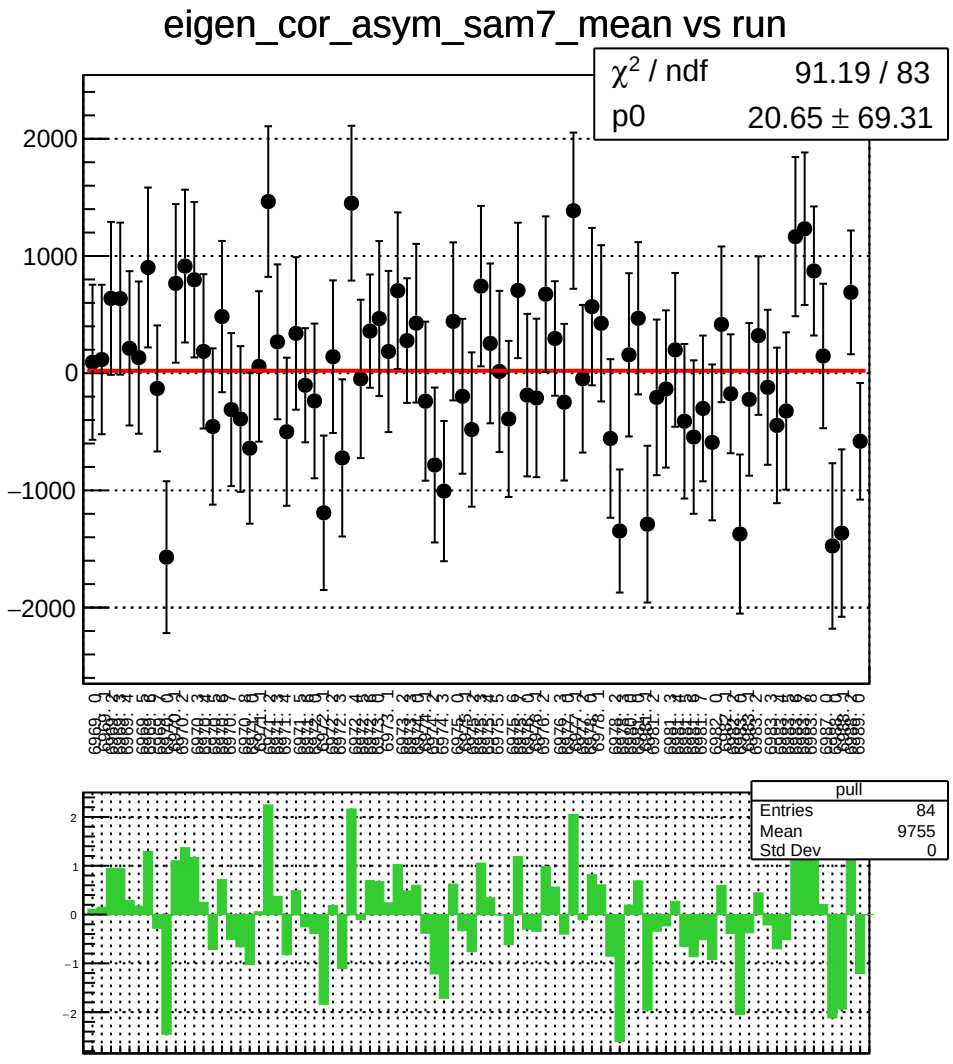

pull1D
Entries 84
Mean −0.0004132
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

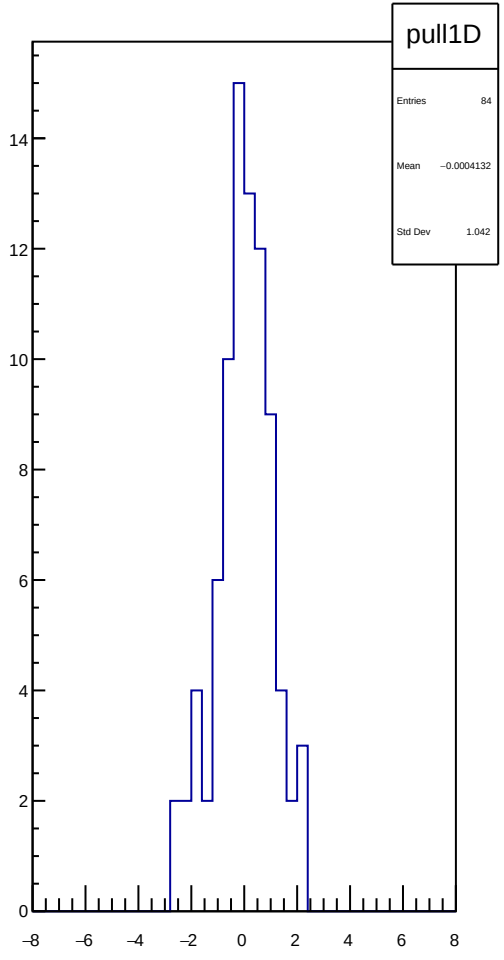

cor_asym_sam7_rms vs run
χ^2 / ndf 1038 / 83
p0 63.39 ± 0.04901
68
66
64
62
60

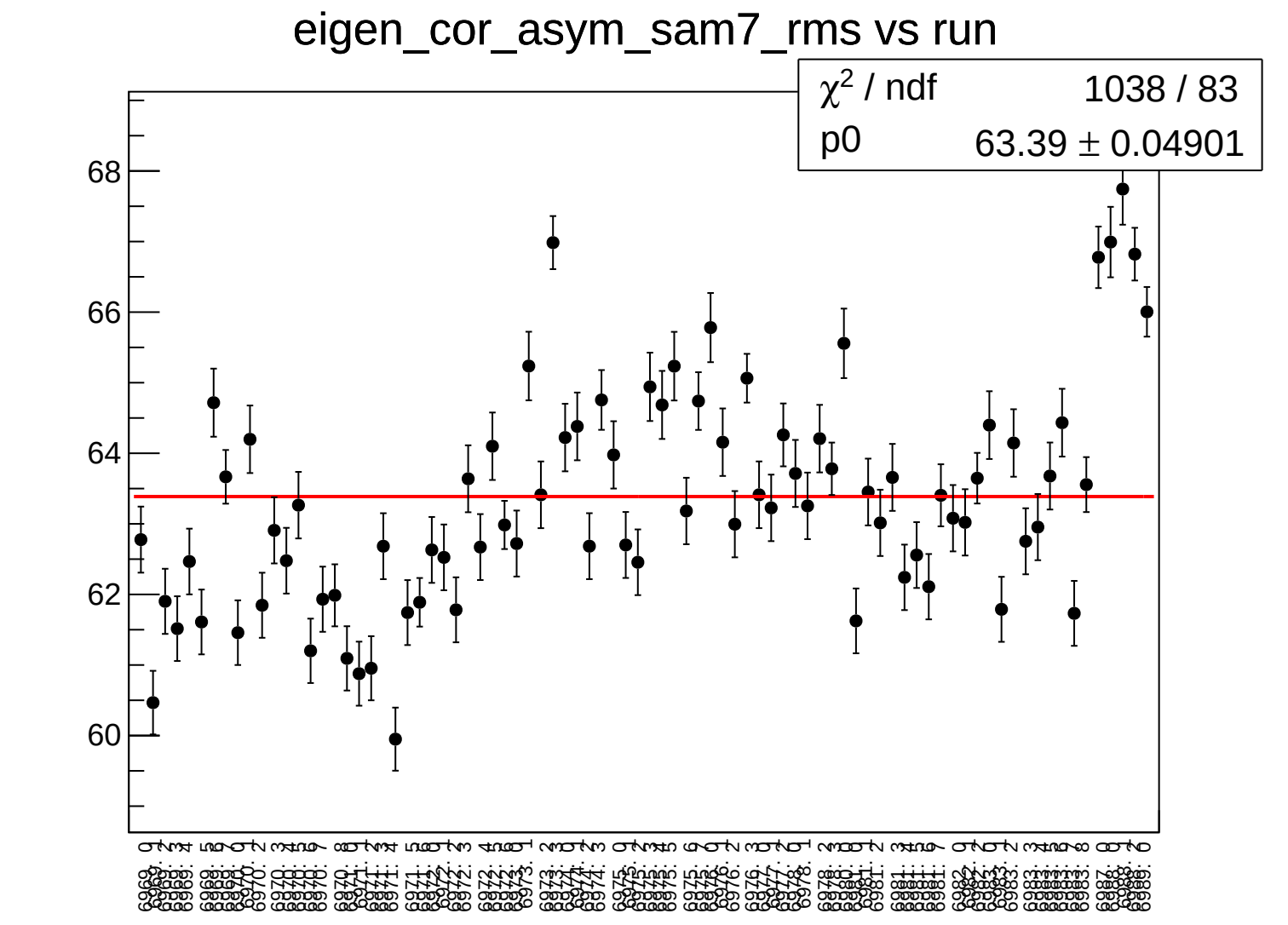

asym_sam7_cor_correction_mean vs run
χ² / ndf 88.03 / 83
p0 293.8 ± 472.1
pull
Entries 84
Mean −270.6
Std Dev 0

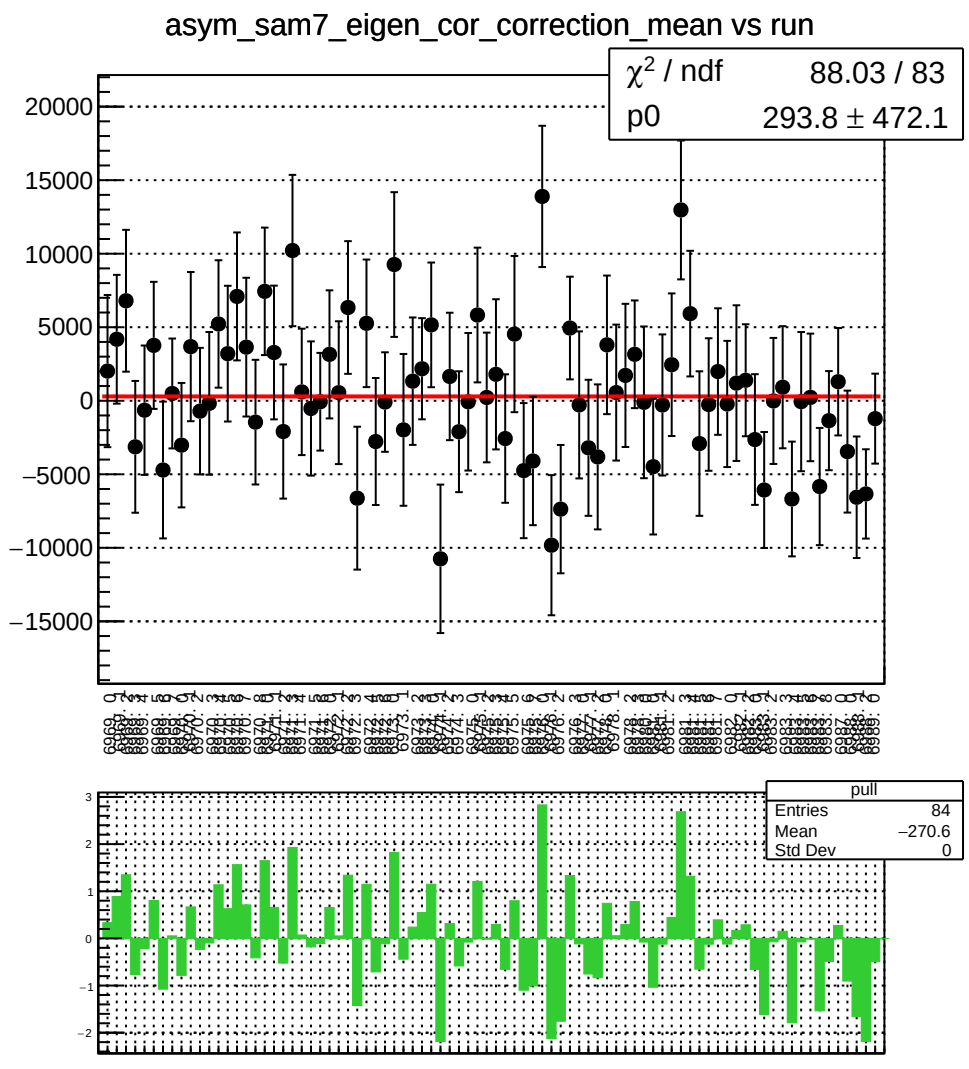

pull1D
Entries 84
Mean 0.02237
Std Dev 1.023

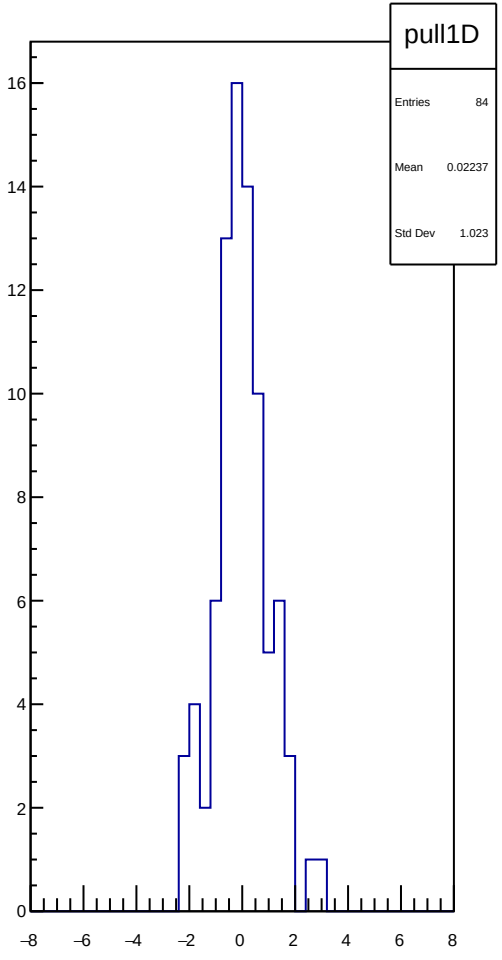

asym_sam7_cor_correction_rms vs run
χ² / ndf 8715 / 83
p0 430.7 ± 0.3338
520
500
480
460
440
420
400
380
360

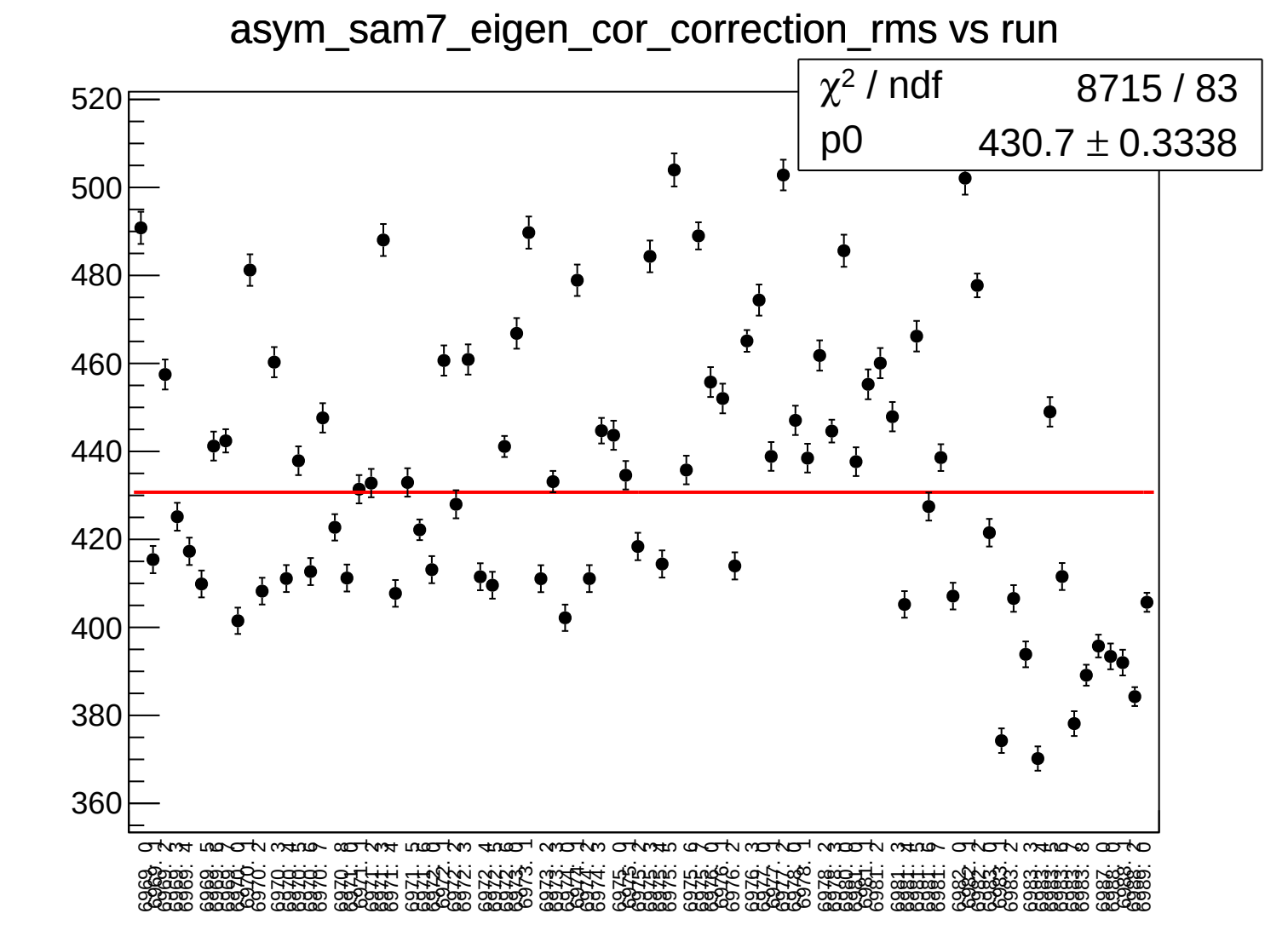

eigen_cor_asym_sam7_mean vs run
χ² / ndf 91.19 / 83
p0 20.65 ± 69.31
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 9755
Std Dev 0
2
1
0
−1
−2

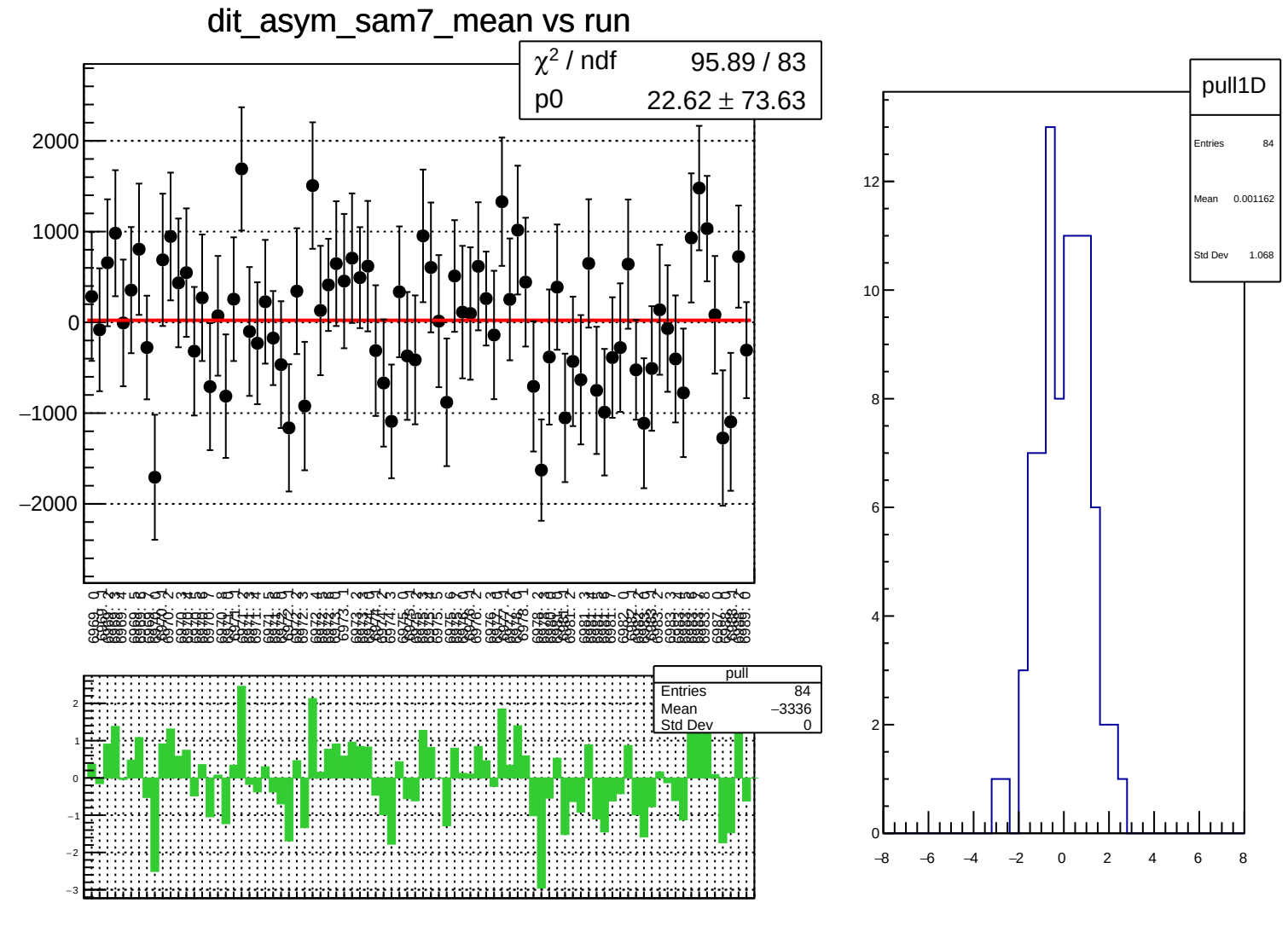

pull1D
Entries 84
Mean −0.0004132
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

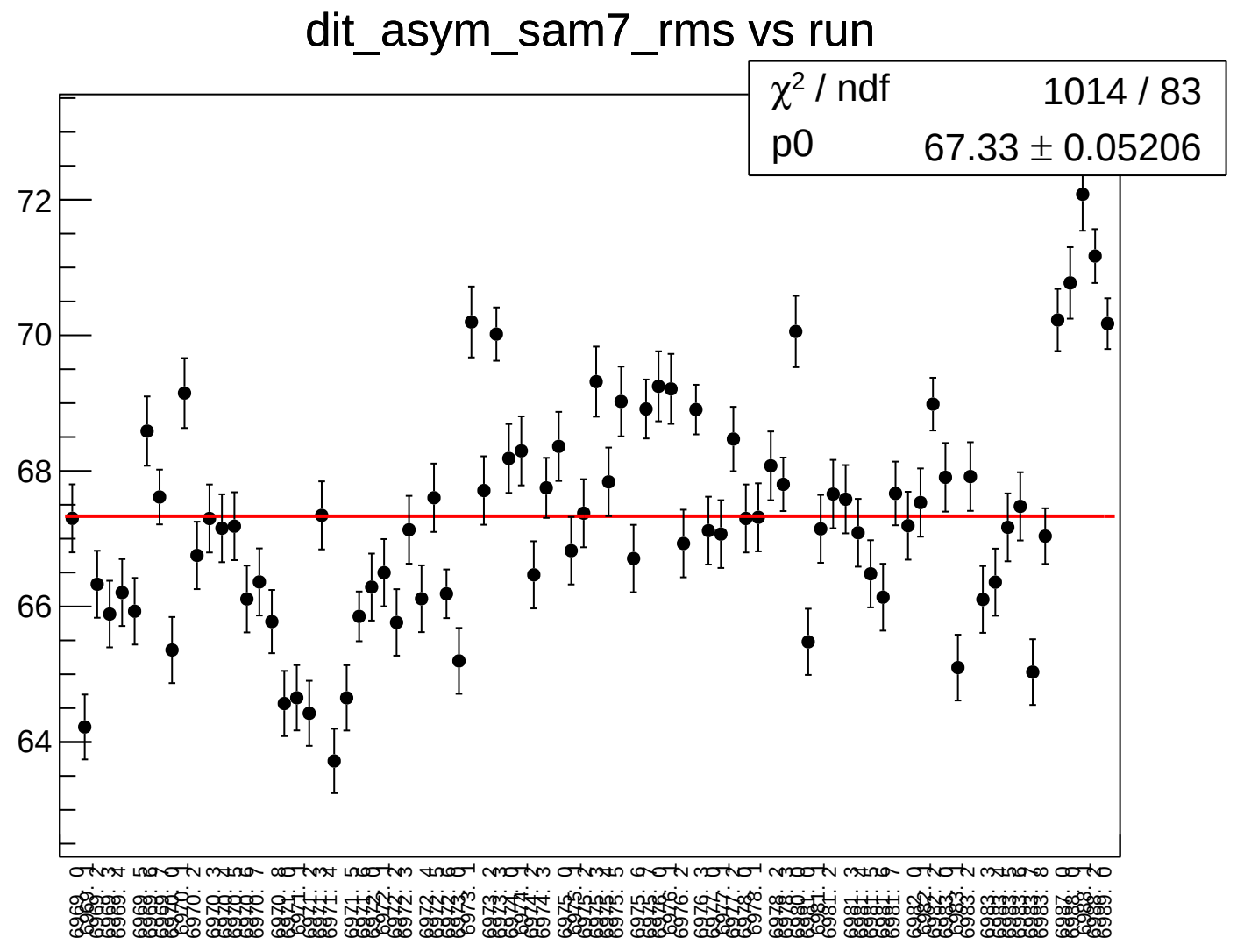

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 1038 / 83
p0 63.39 ± 0.04901
68
66
64
62
60

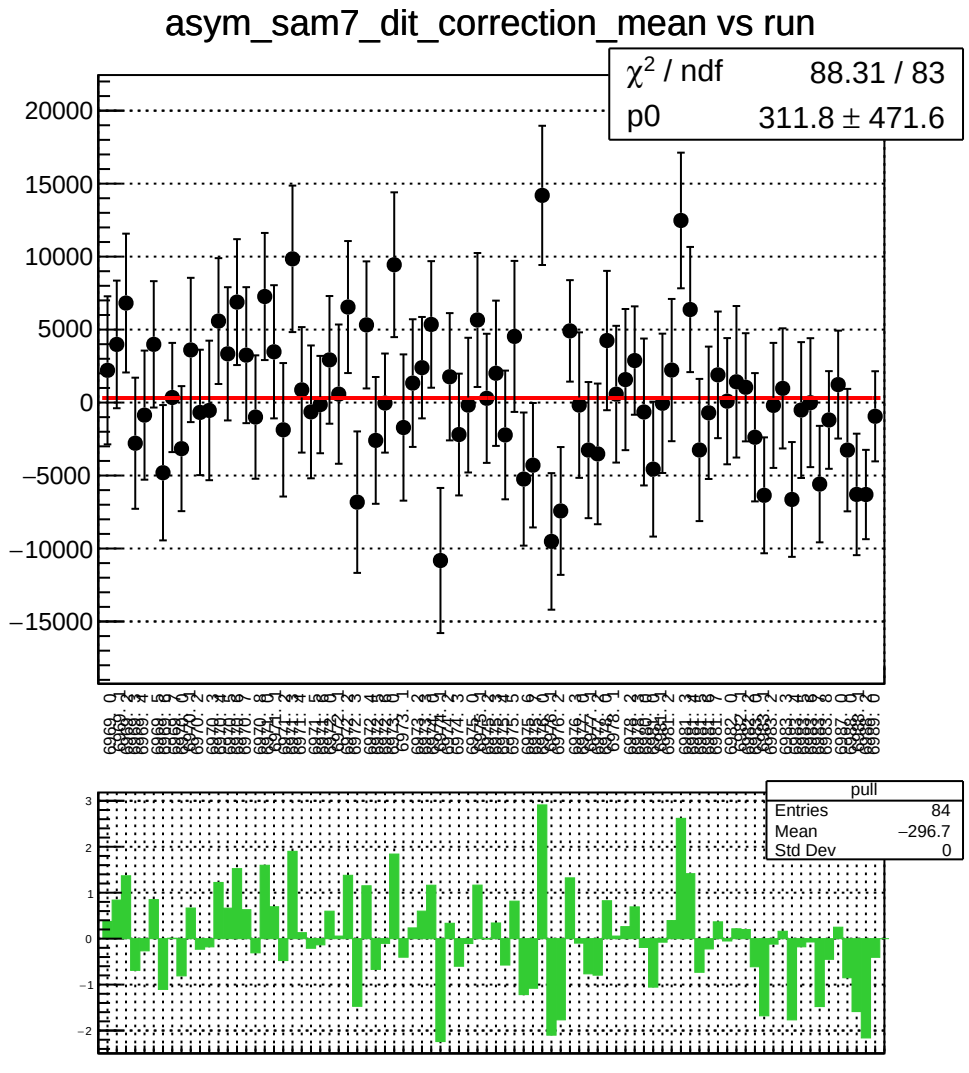

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 88.03 / 83
p0 293.8 ± 472.1
pull
Entries 84
Mean −270.6
Std Dev 0

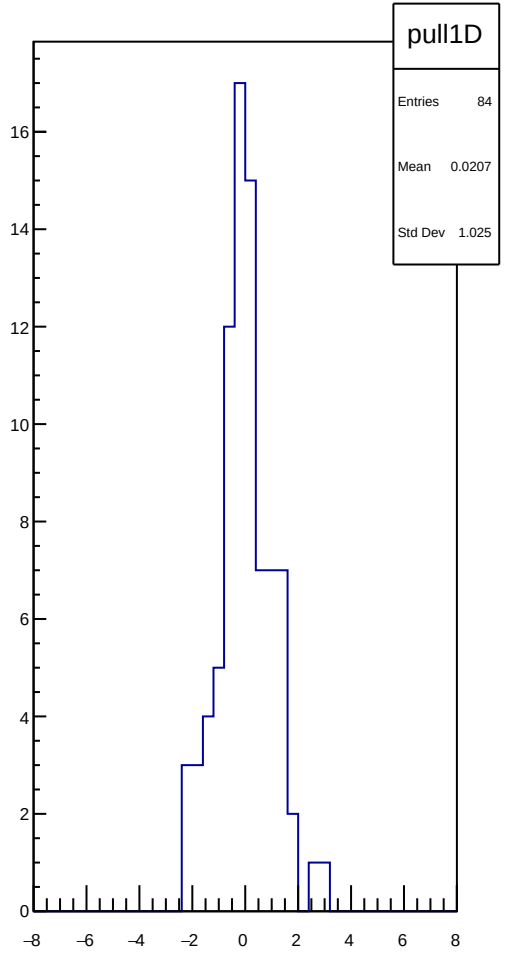

pull1D
Entries 84
Mean 0.02237
Std Dev 1.023

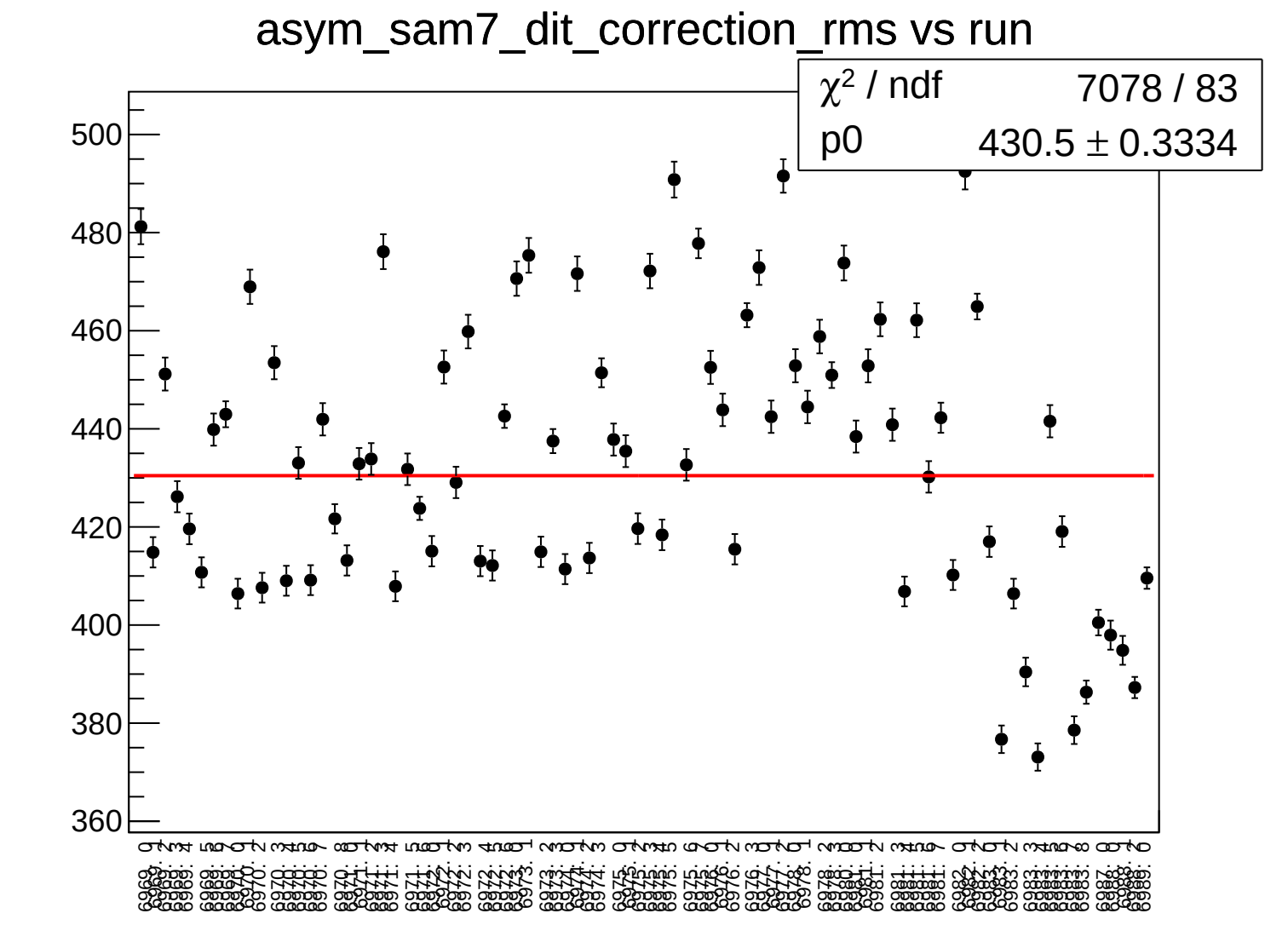

asym_sam7_eigen_cor_correction_rms vs run
χ^2 / ndf 8715 / 83
p0 430.7 ± 0.3338
520
500
480
460
440
420
400
380
360

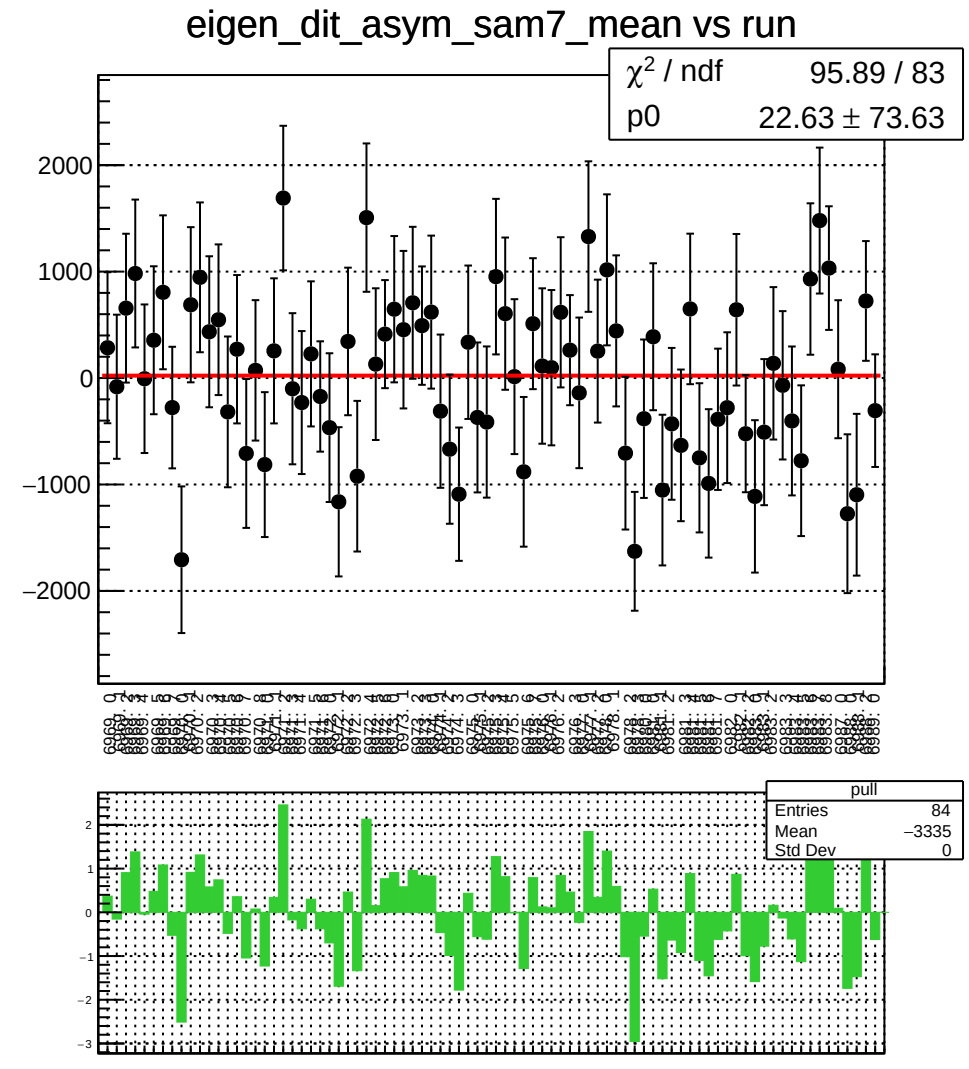

dit_asym_sam7_mean vs run
χ² / ndf 95.89 / 83
p0 22.62 ± 73.63
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −3336
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.001162
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

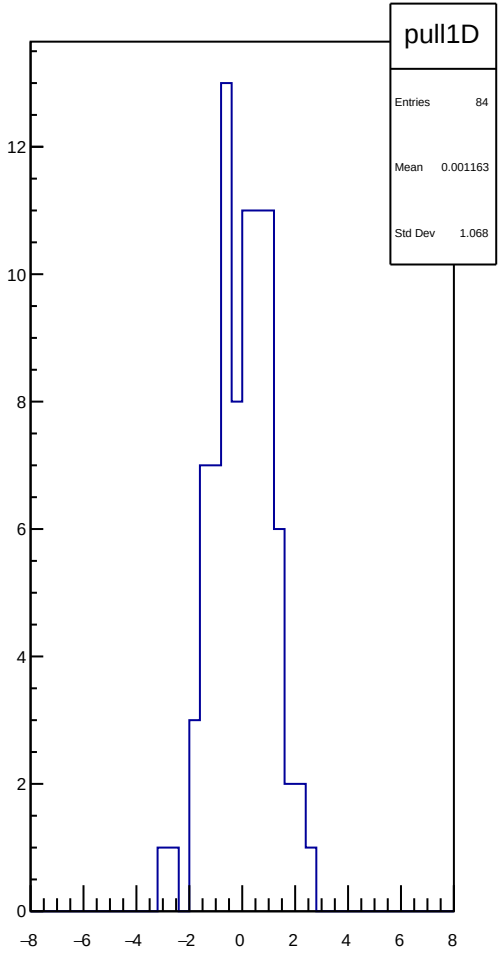

dit_asym_sam7_rms vs run
χ^2 / ndf 1014 / 83
p0 67.33 ± 0.05206
72
70
68
66
64

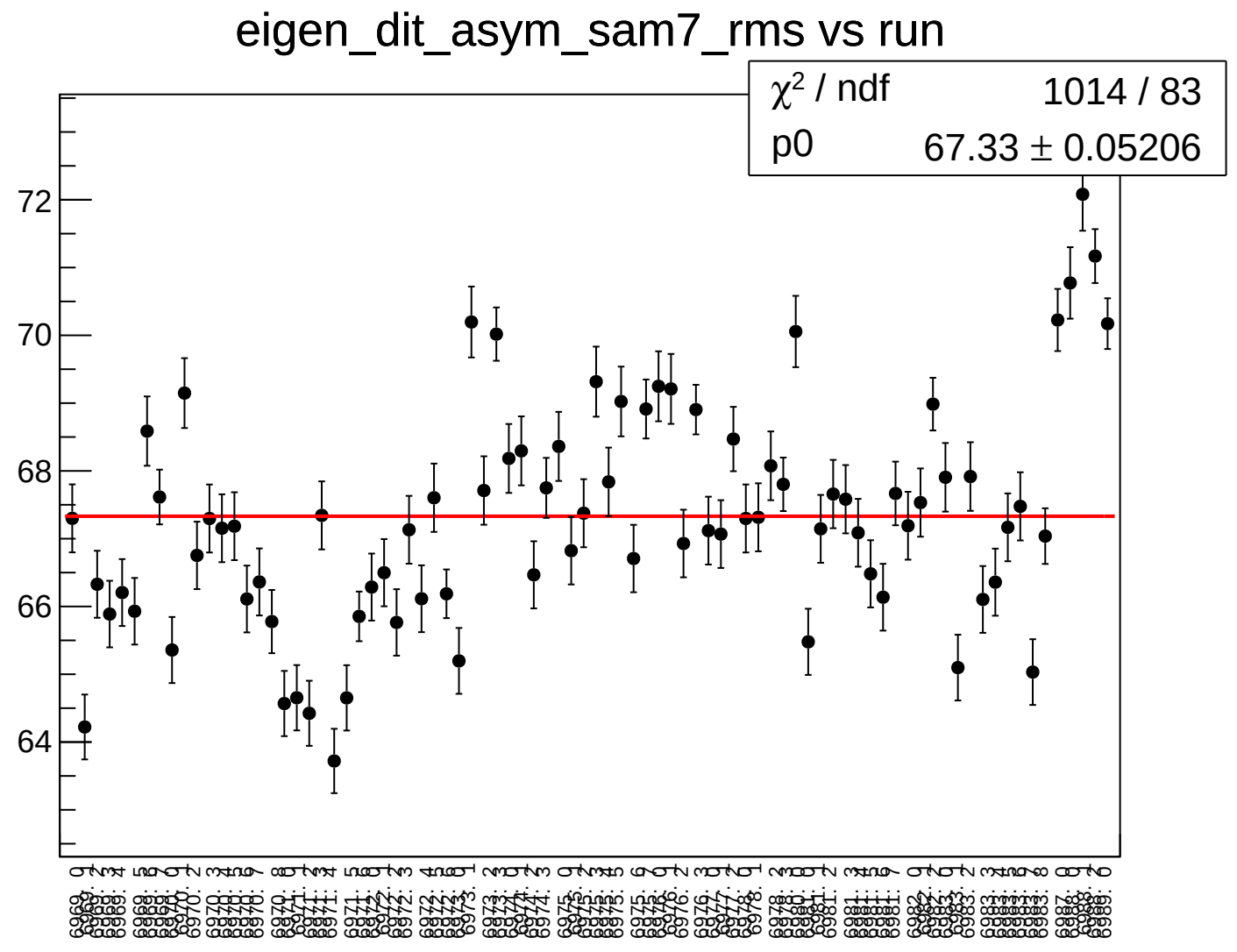

asym_sam7_dit_correction_mean vs run
χ² / ndf 88.31 / 83
p0 311.8 ± 471.6
pull
Entries 84
Mean −296.7
Std Dev 0

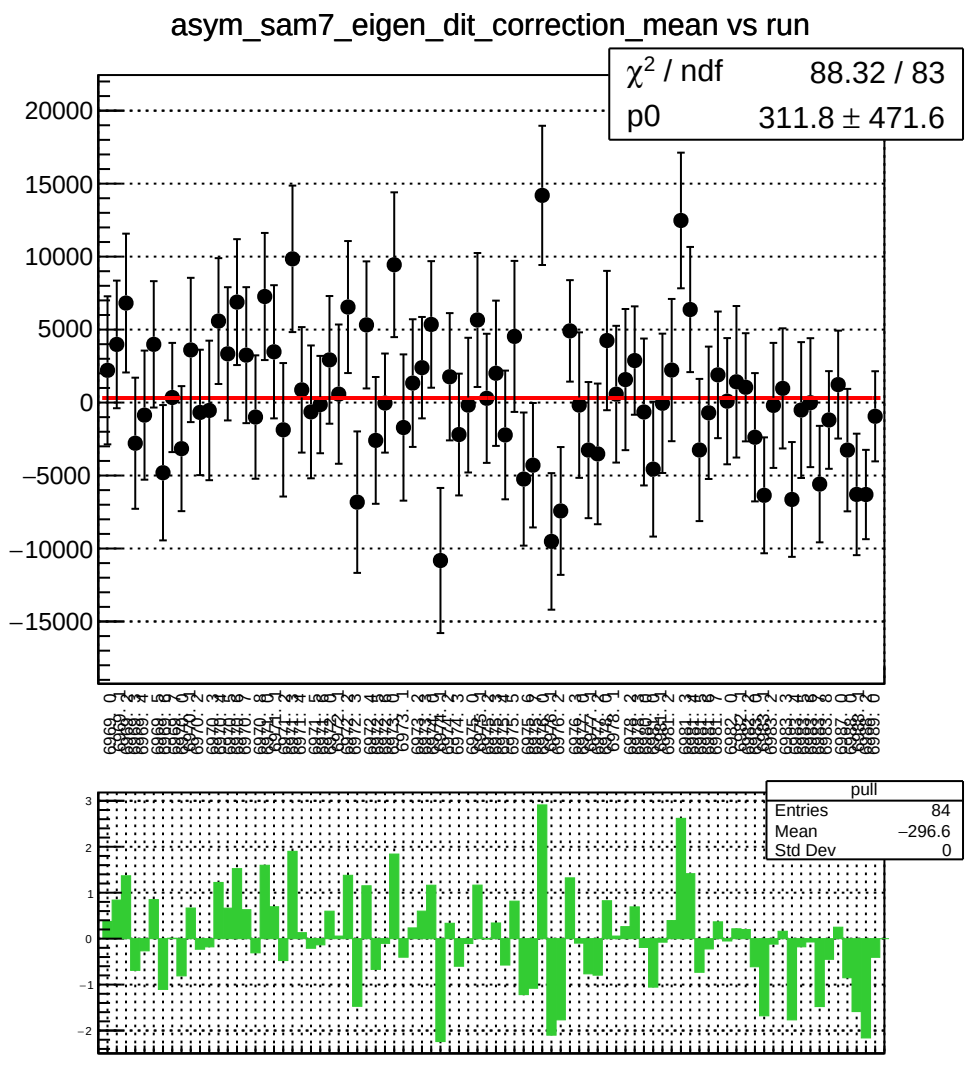

pull1D
Entries 84
Mean 0.0207
Std Dev 1.025

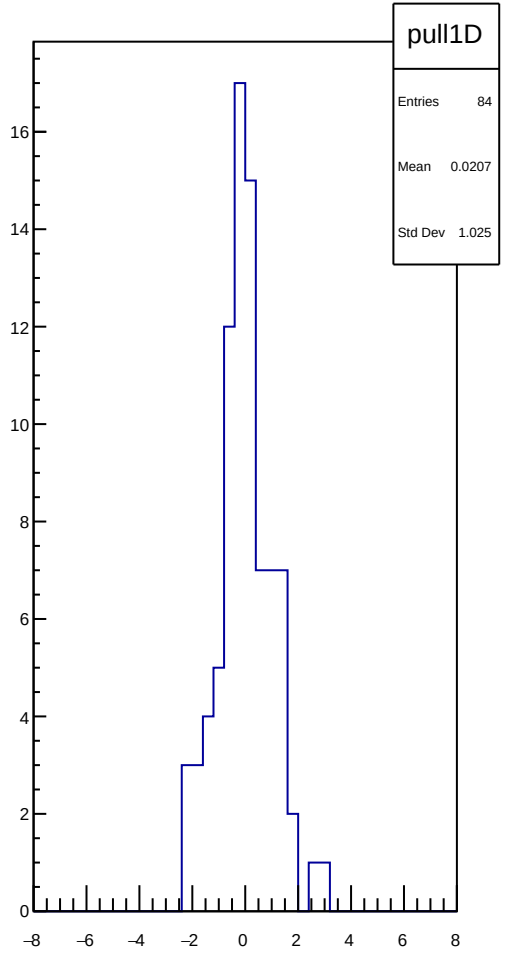

asym_sam7_dit_correction_rms vs run
χ² / ndf 7078 / 83
p0 430.5 ± 0.3334
500
480
460
440
420
400
380
360

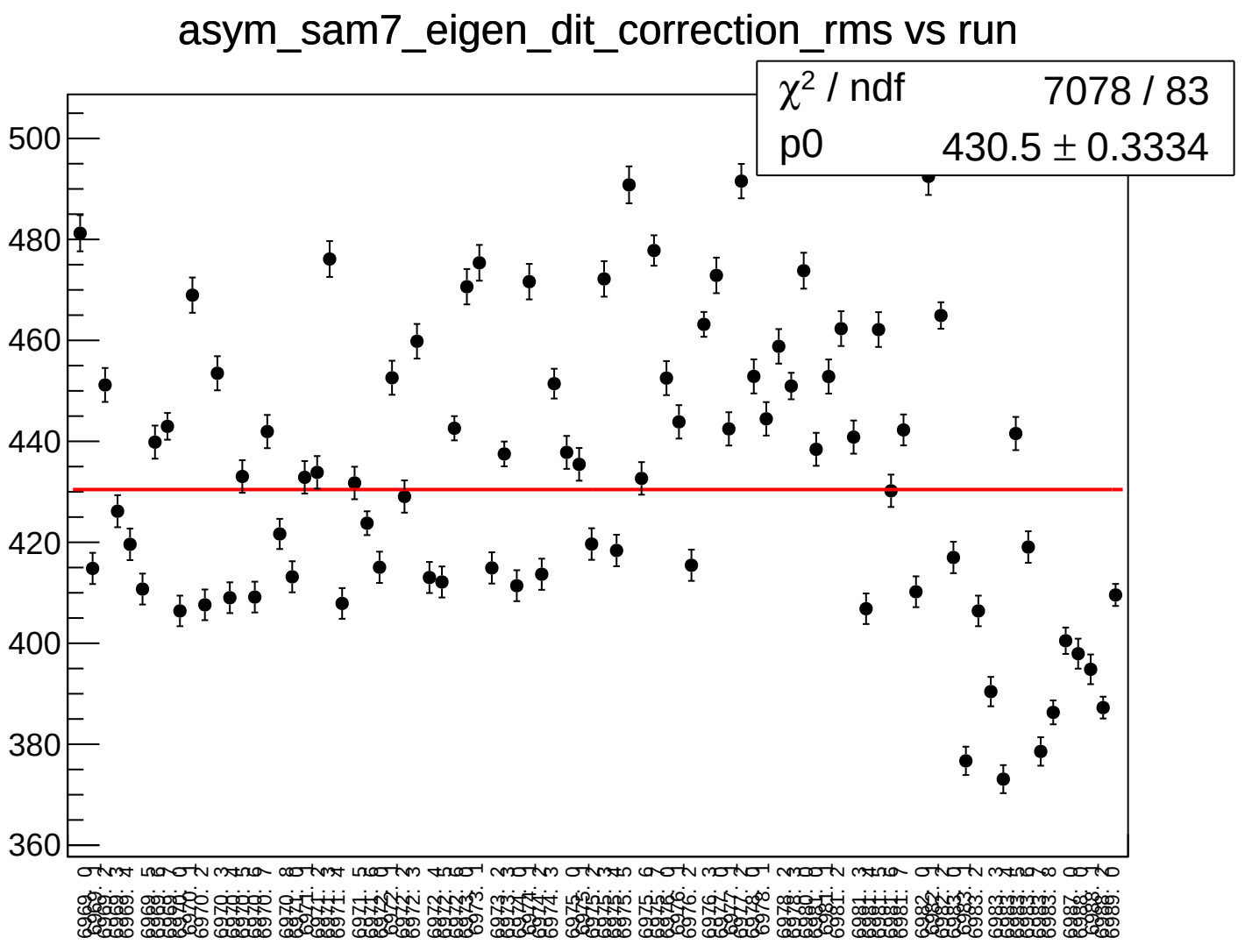

eigen_dit_asym_sam7_mean vs run
χ² / ndf 95.89 / 83
p0 22.63 ± 73.63
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −3335
Std Dev 0
2
1
0
−1
−2
−3

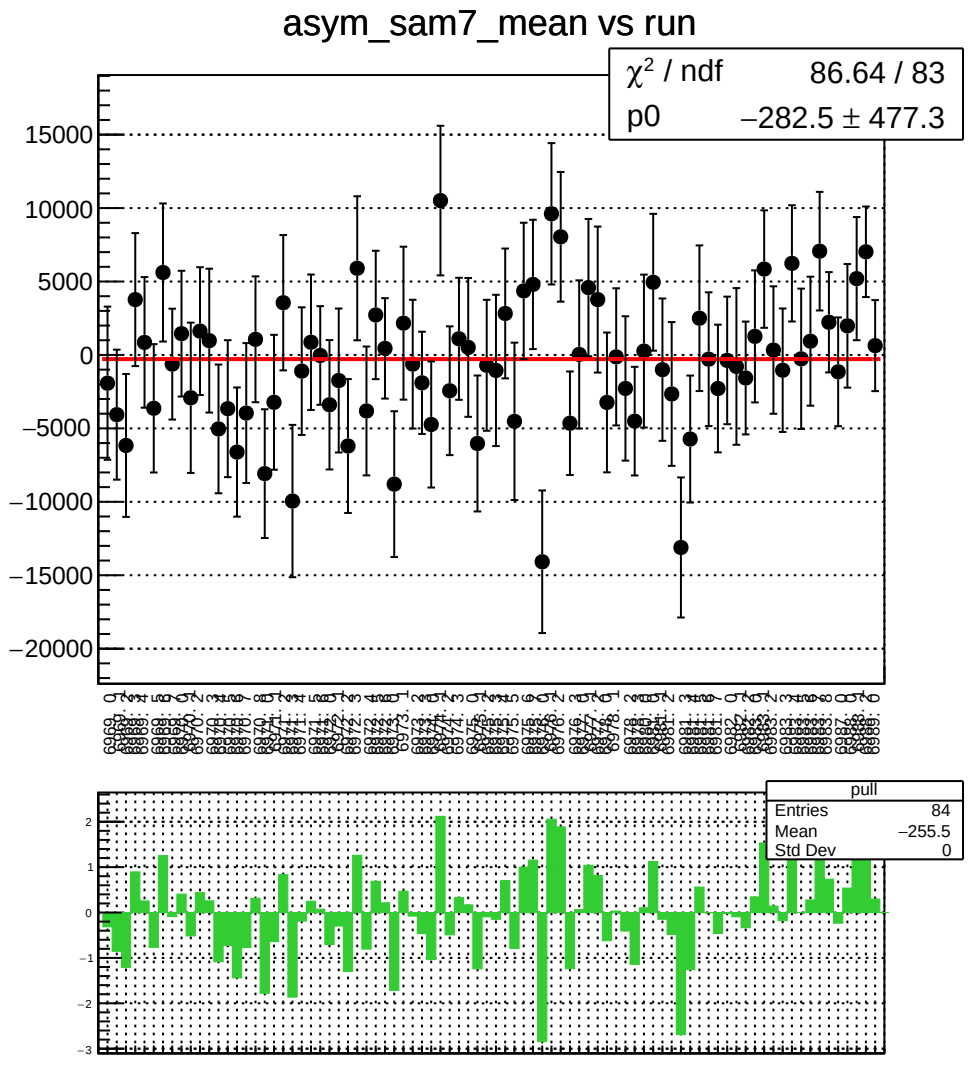

pull1D
Entries 84
Mean 0.001163
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

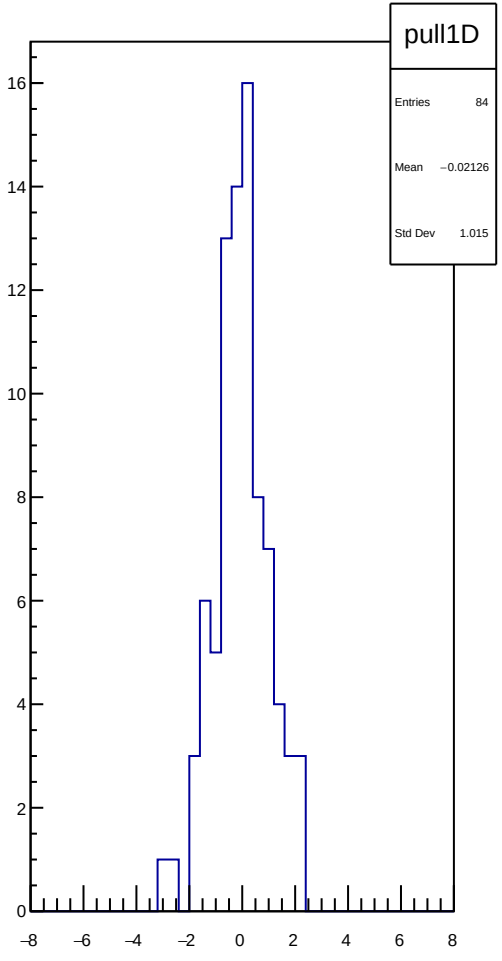

eigen_dit_asym_sam7_rms vs run
χ² / ndf 1014 / 83
p0 67.33 ± 0.05206
72
70
68
66
64

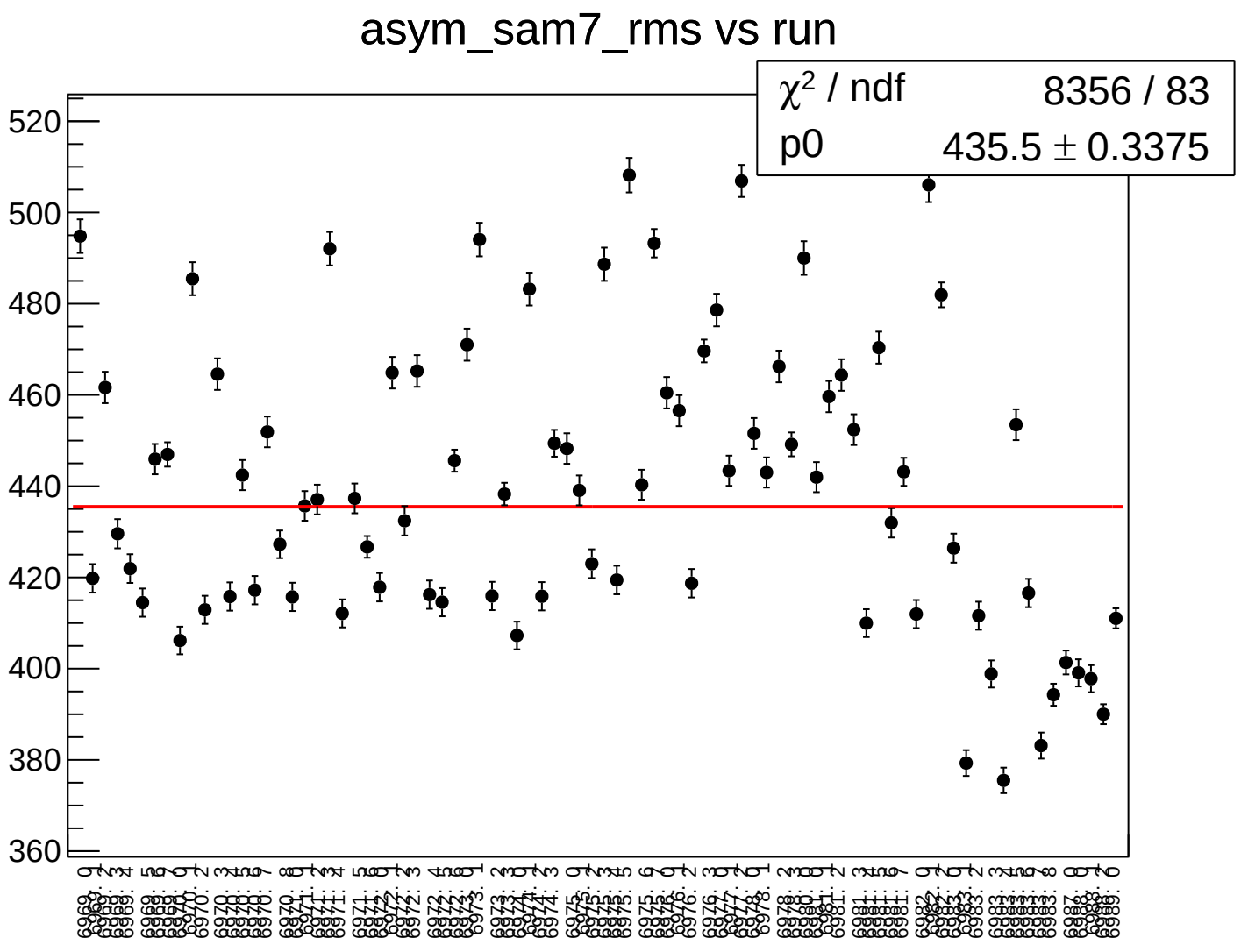

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 88.32 / 83
p0 311.8 ± 471.6
pull
Entries 84
Mean −296.6
Std Dev 0

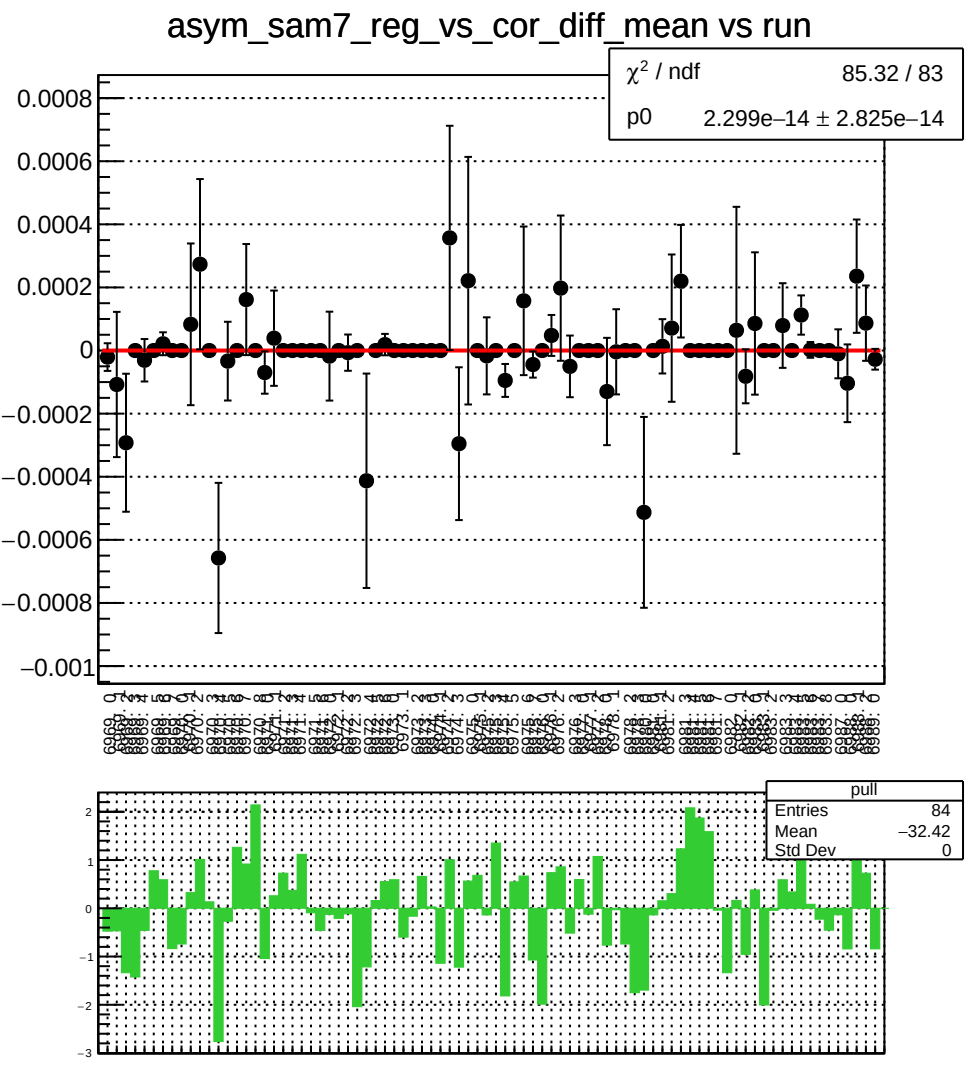

pull1D
Entries 84
Mean 0.0207
Std Dev 1.025

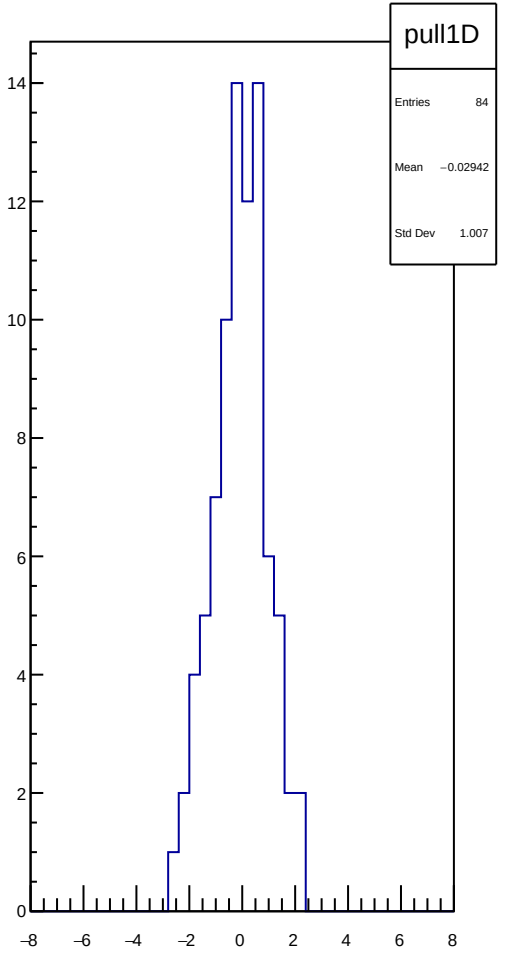

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 7078 / 83
p0 430.5 ± 0.3334
500
480
460
440
420
400
380
360

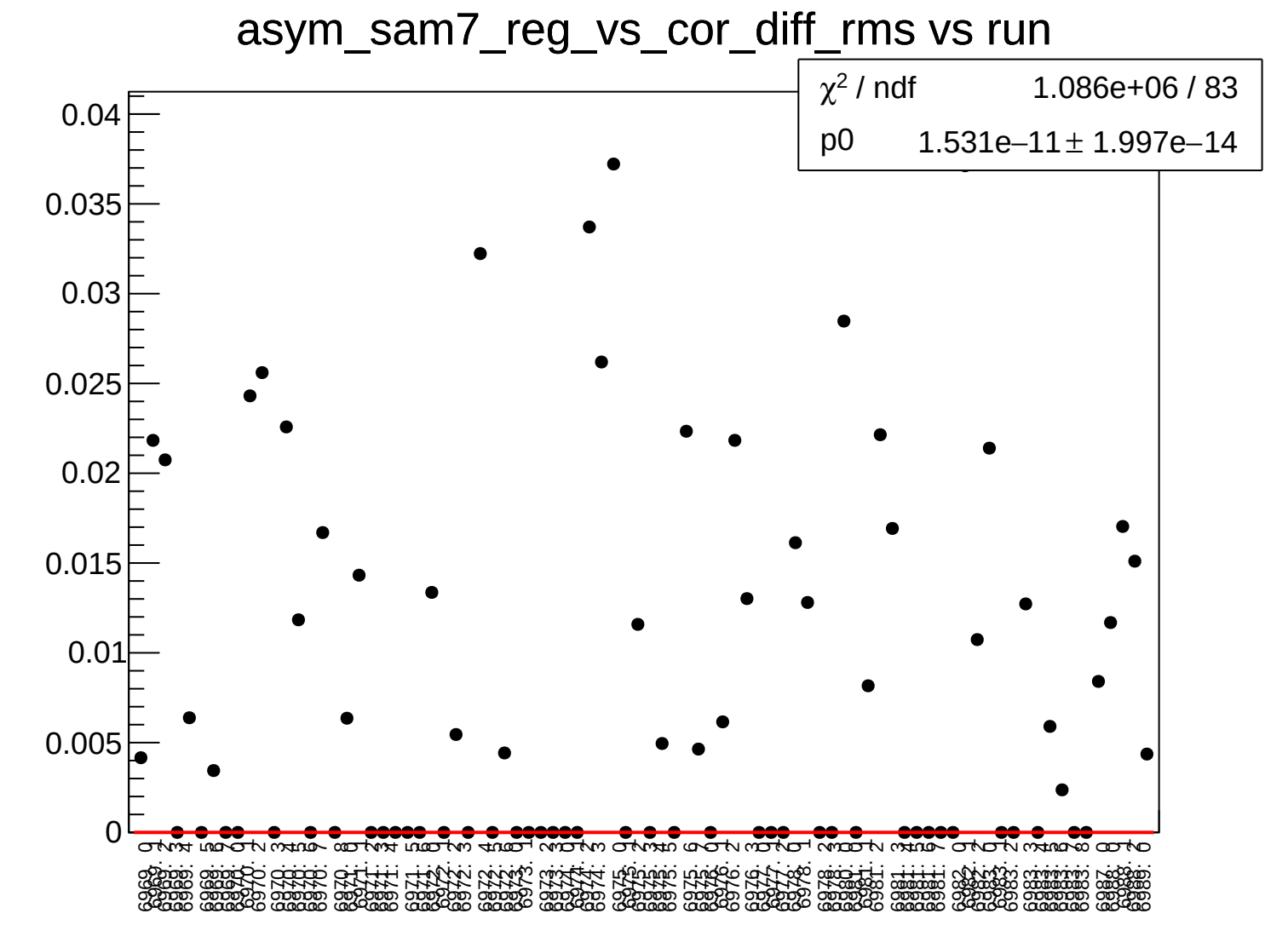

asym_sam7_mean vs run
χ² / ndf 86.64 / 83
p0 −282.5 ± 477.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −255.5
Std Dev 0
2
1
0
−1
−2
−3

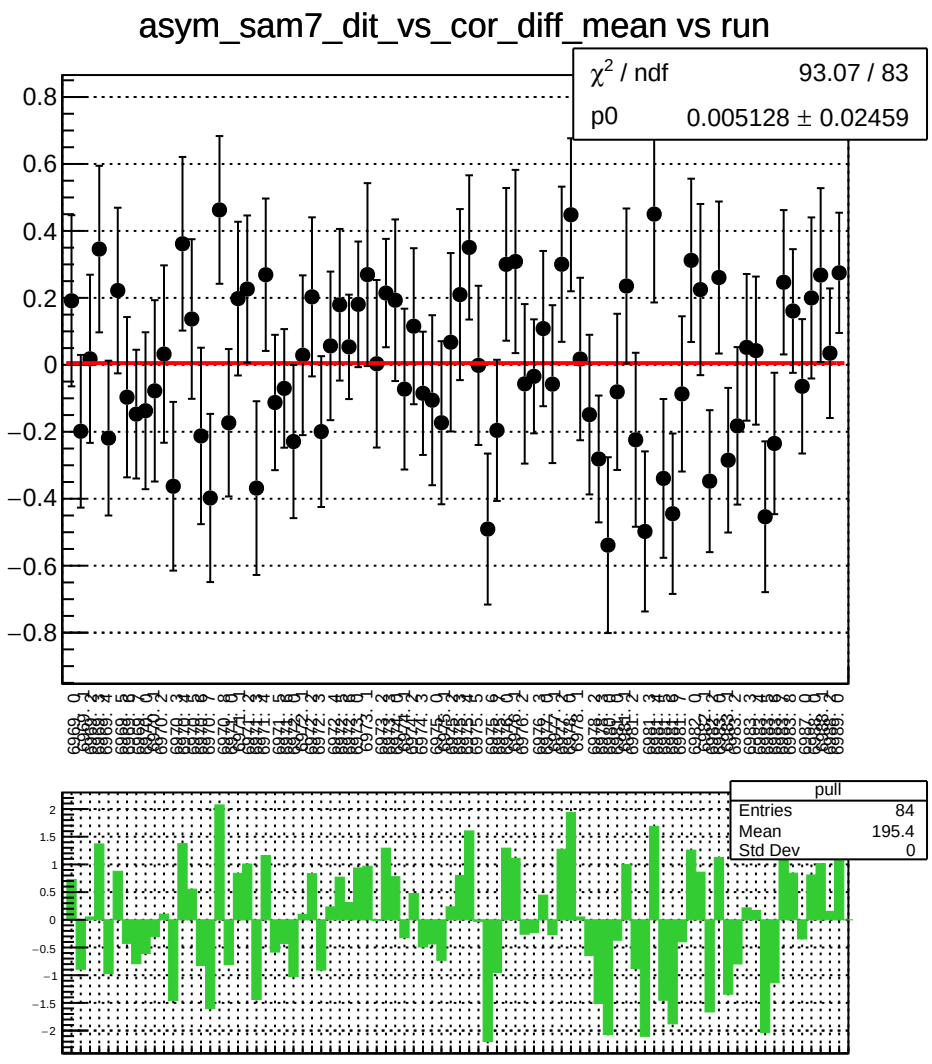

pull1D
Entries 84
Mean −0.02126
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

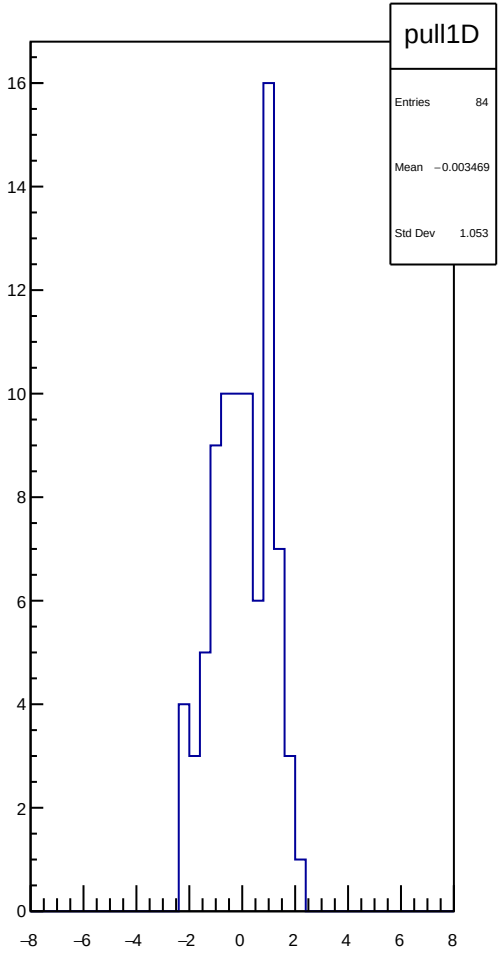

asym_sam7_rms vs run
χ² / ndf 8356 / 83
p0 435.5 ± 0.3375
520
500
480
460
440
420
400
380
360

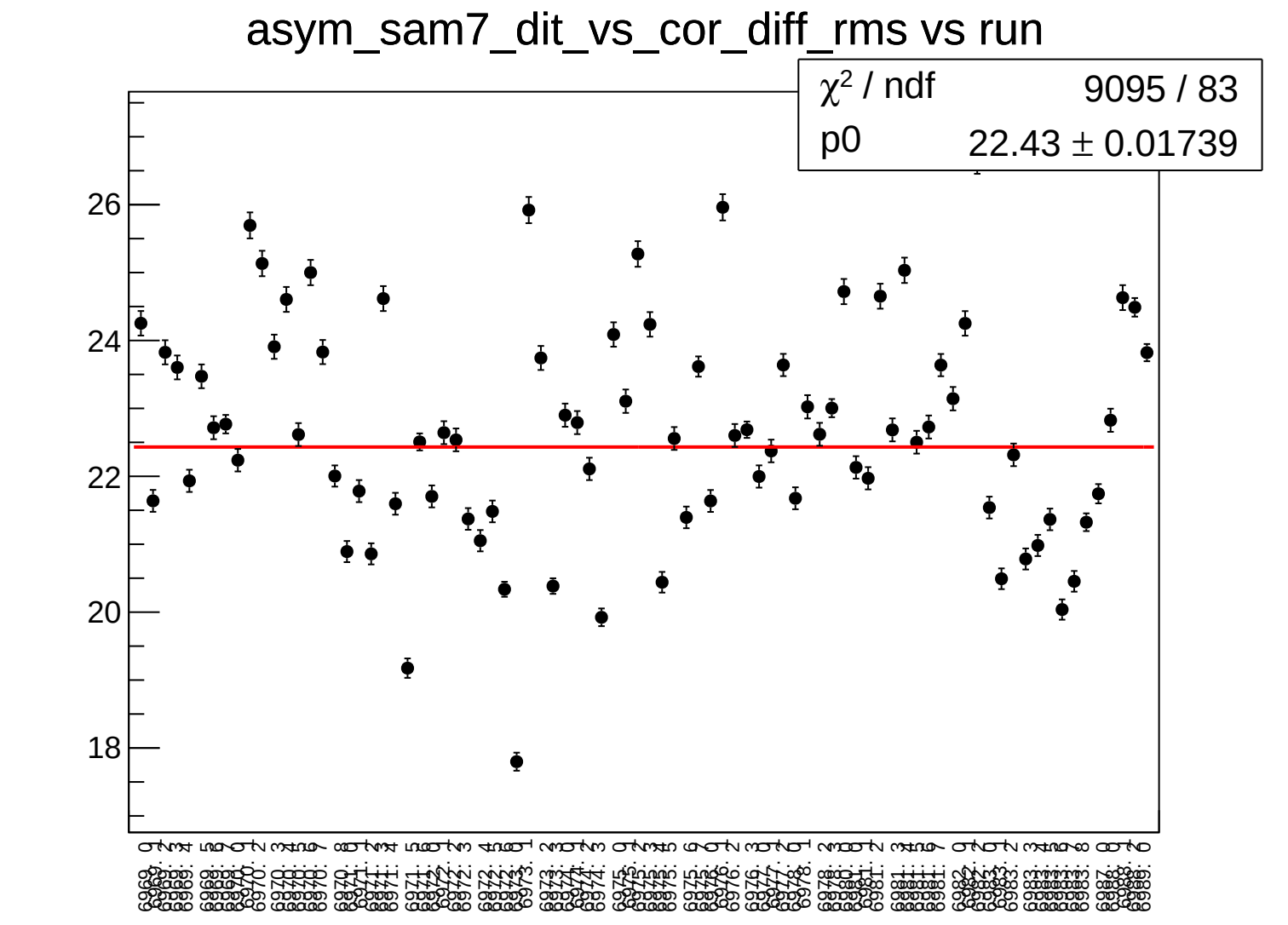

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 85.32 / 83
p0 2.299e−14 ± 2.825e−14
pull
Entries 84
Mean −32.42
Std Dev 0

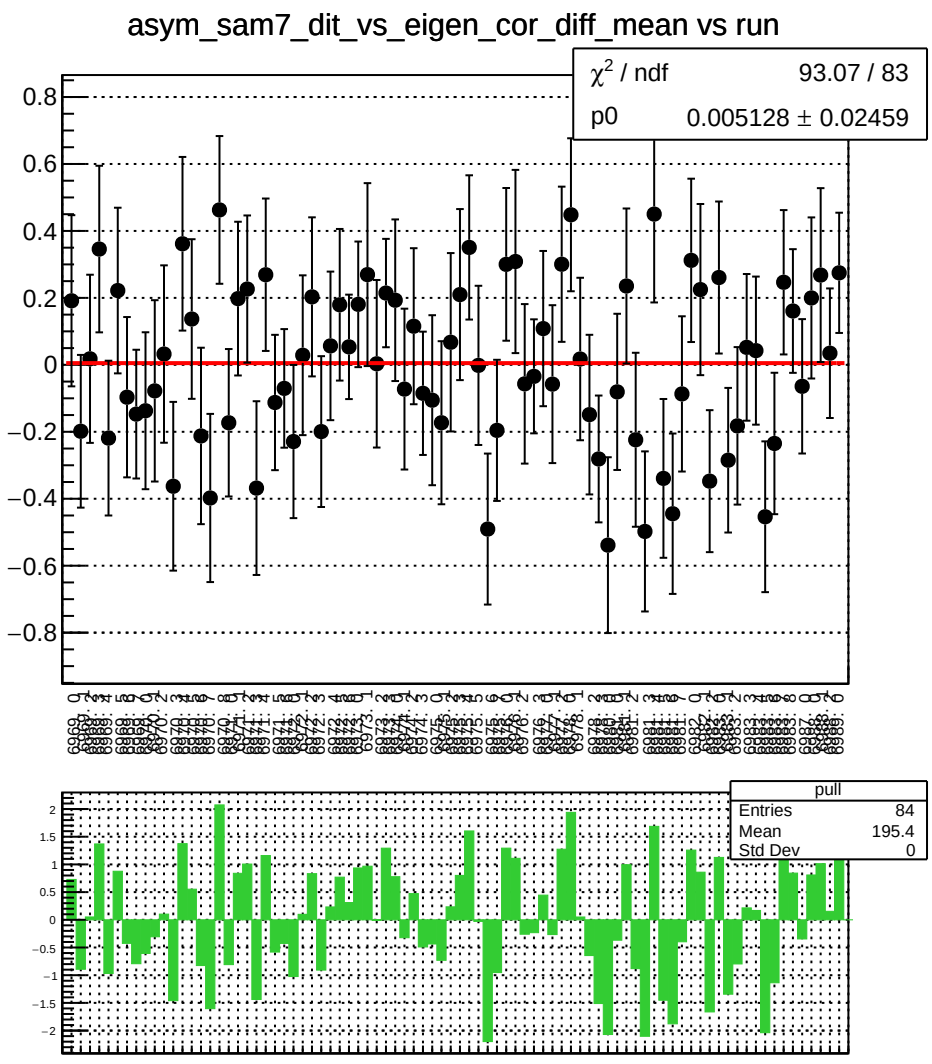

pull1D
Entries 84
Mean −0.02942
Std Dev 1.007

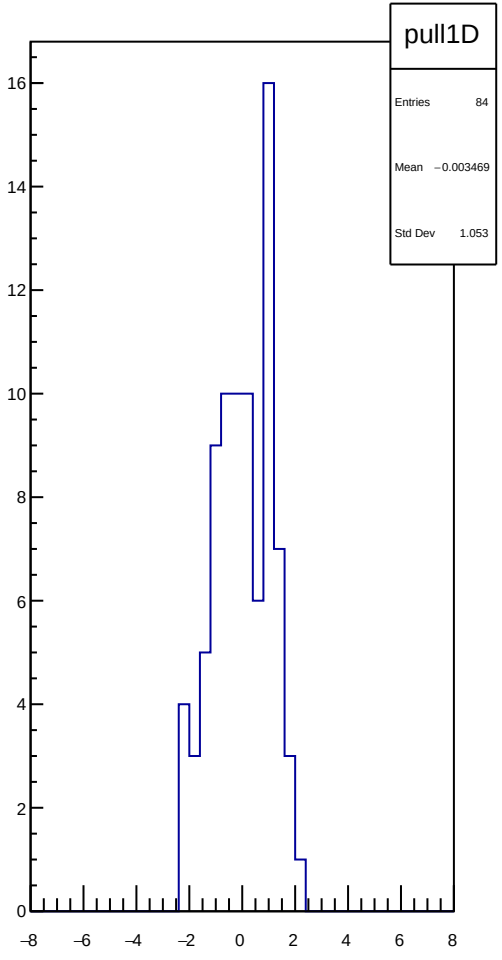

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.086e+06 / 83
p0 1.531e−11 ± 1.997e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

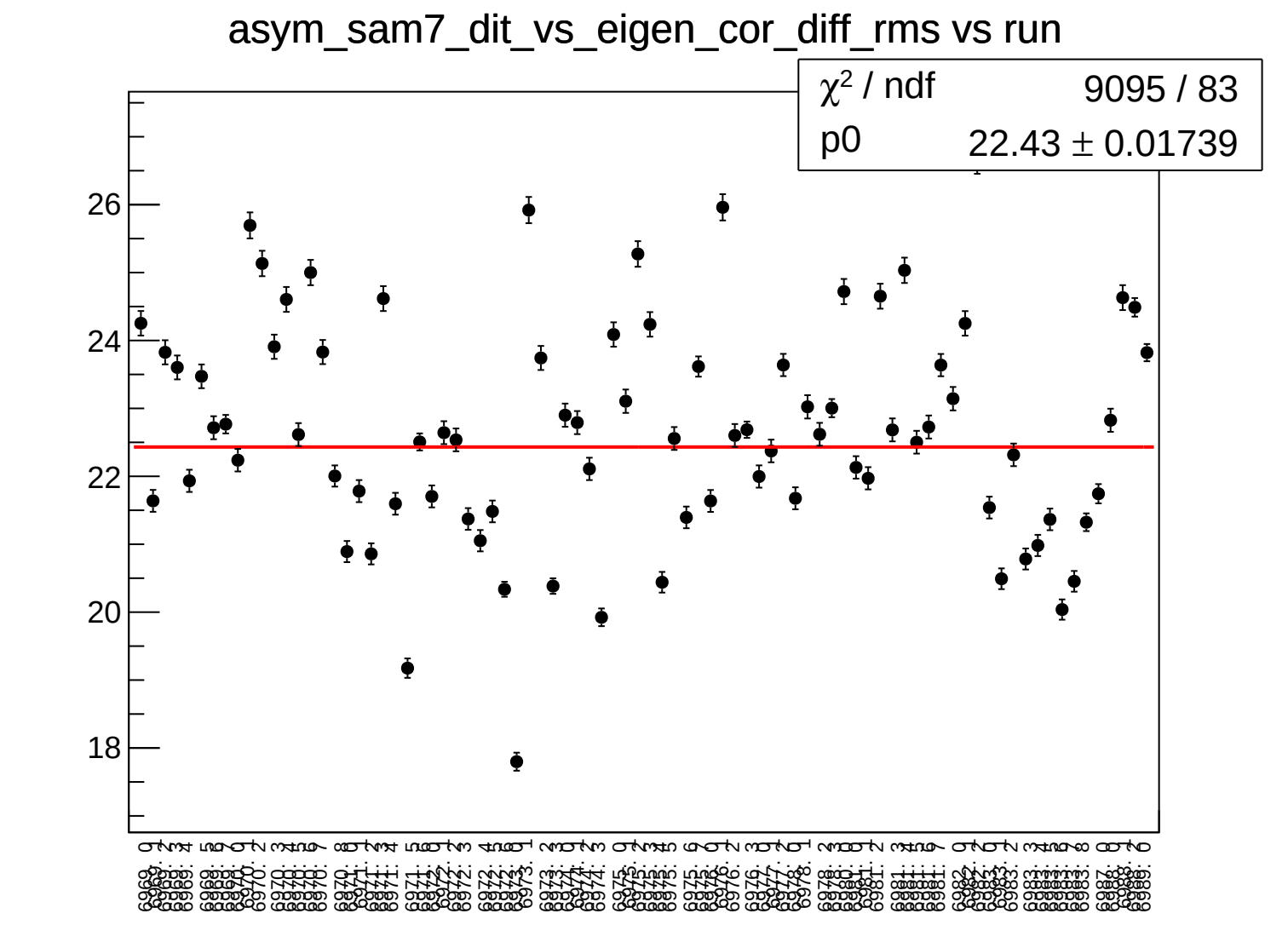

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 93.07 / 83
p0 0.005128 ± 0.02459
pull
Entries 84
Mean 195.4
Std Dev 0

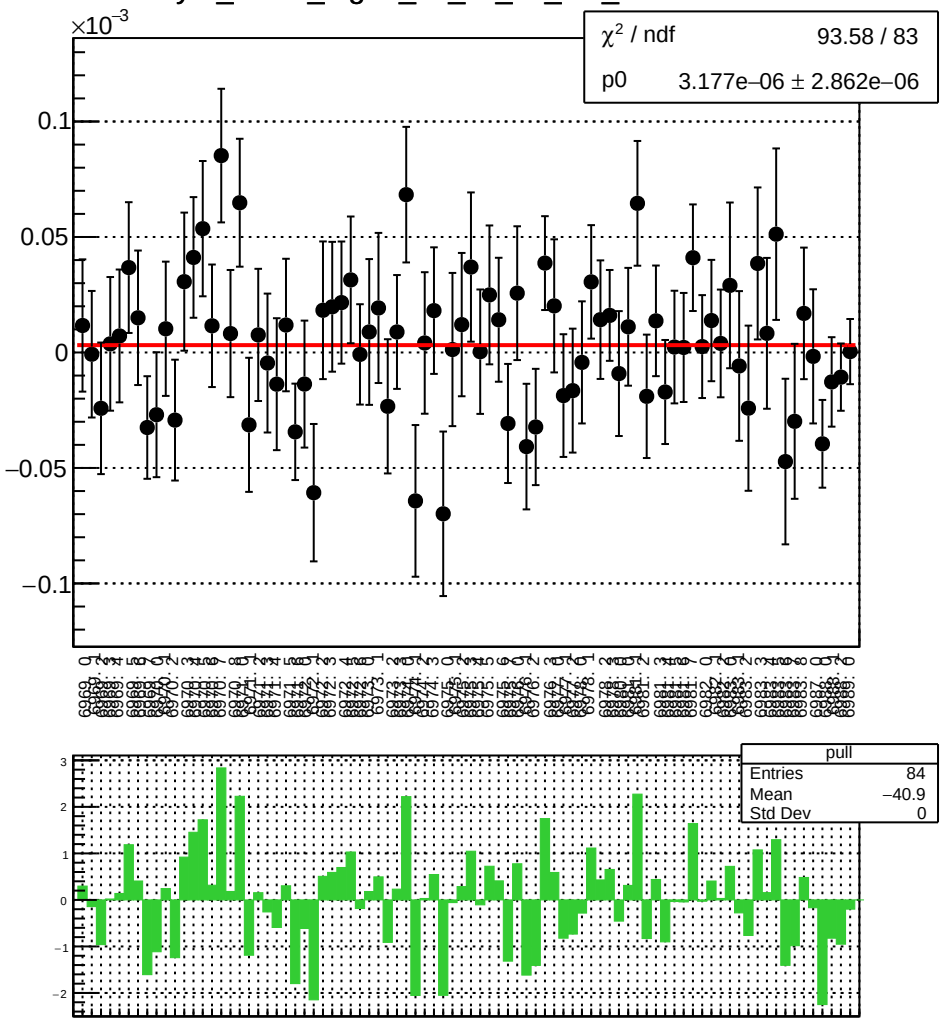

pull1D
Entries 84
Mean −0.003469
Std Dev 1.053

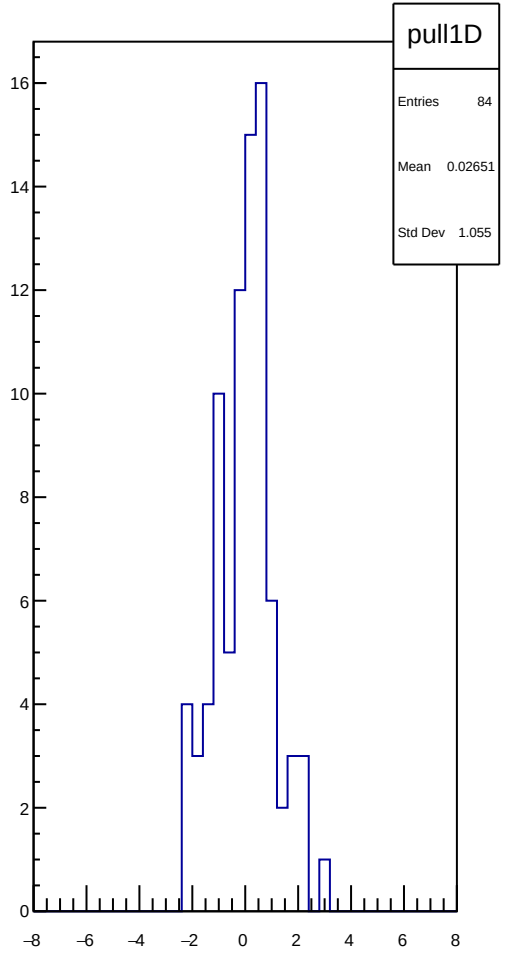

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 9095 / 83
p0 22.43 ± 0.01739
26
24
22
20
18

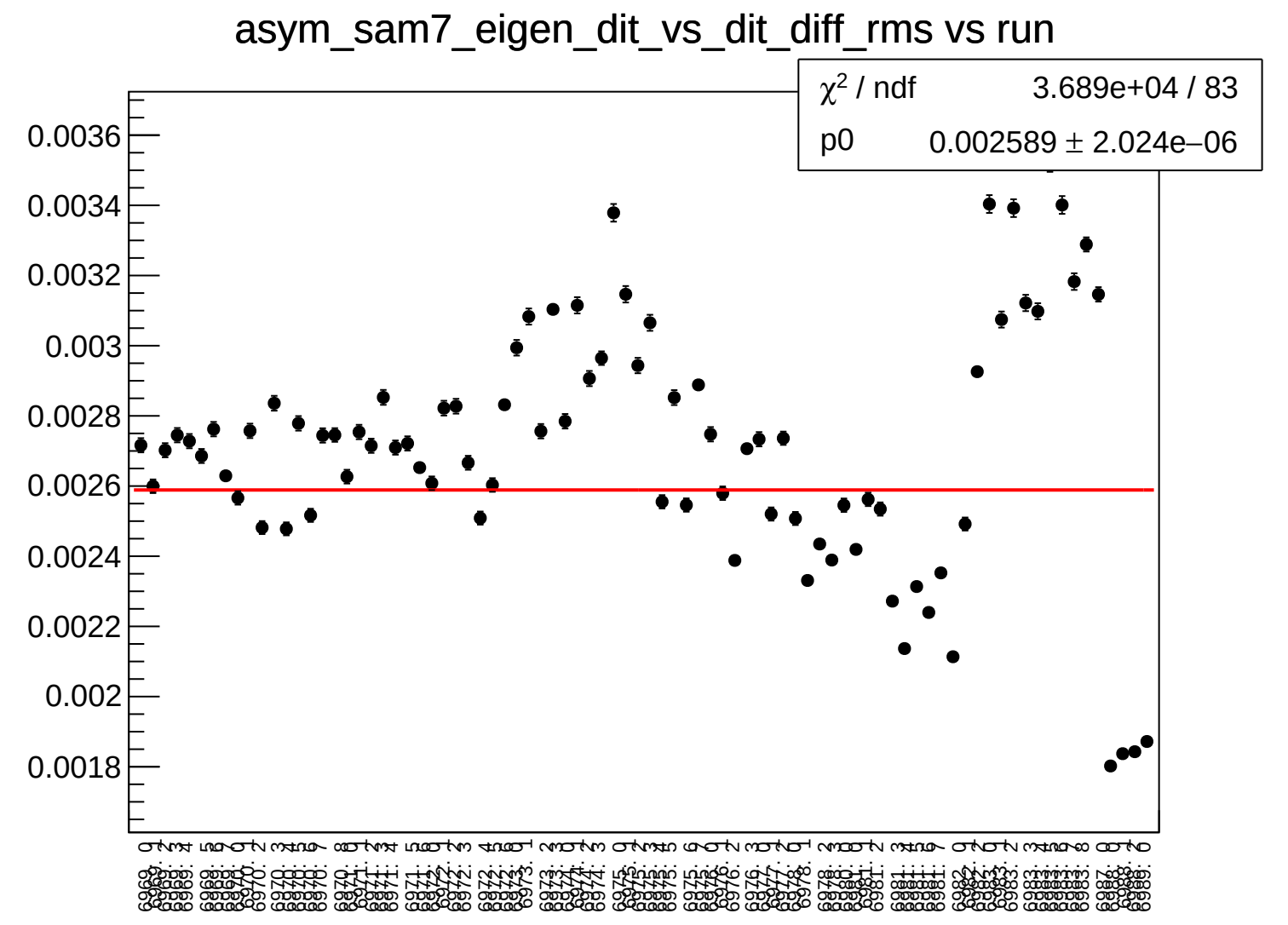

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.07 / 83
p0 0.005128 ± 0.02459
pull
Entries 84
Mean 195.4
Std Dev 0

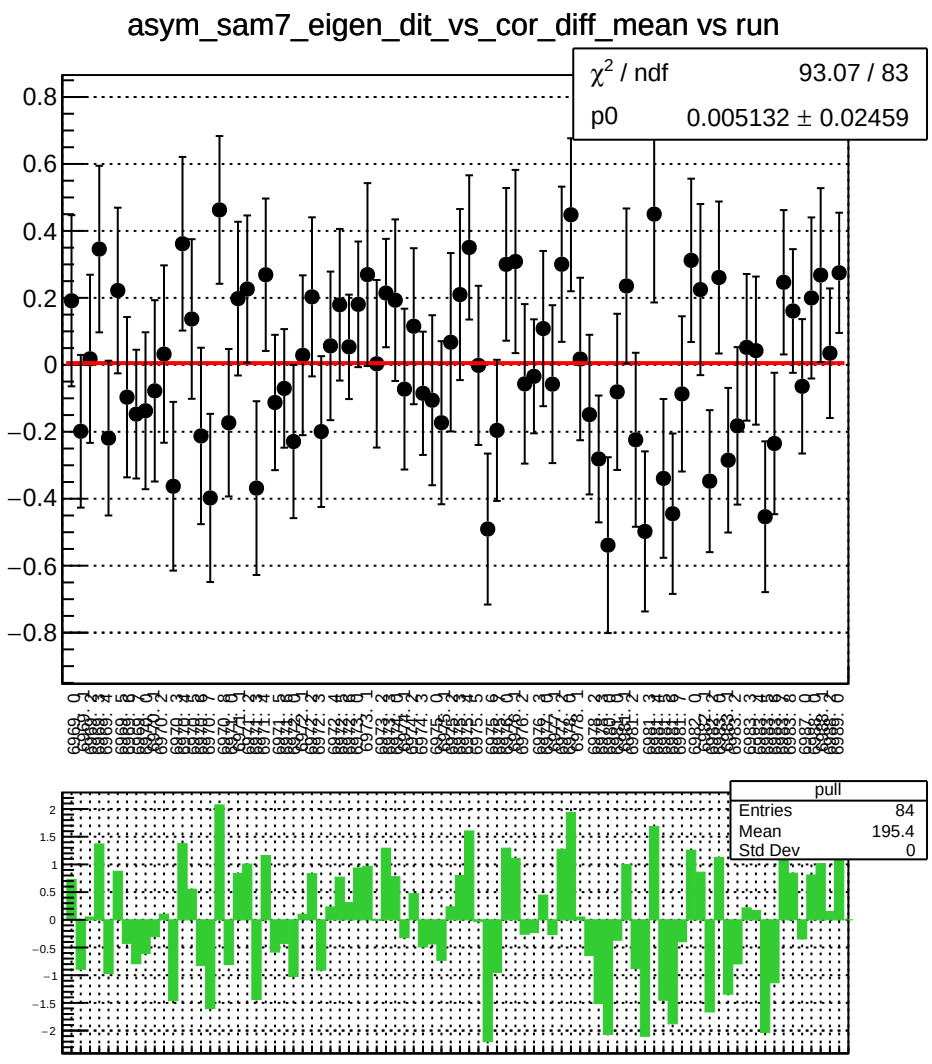

pull1D
Entries 84
Mean −0.003469
Std Dev 1.053

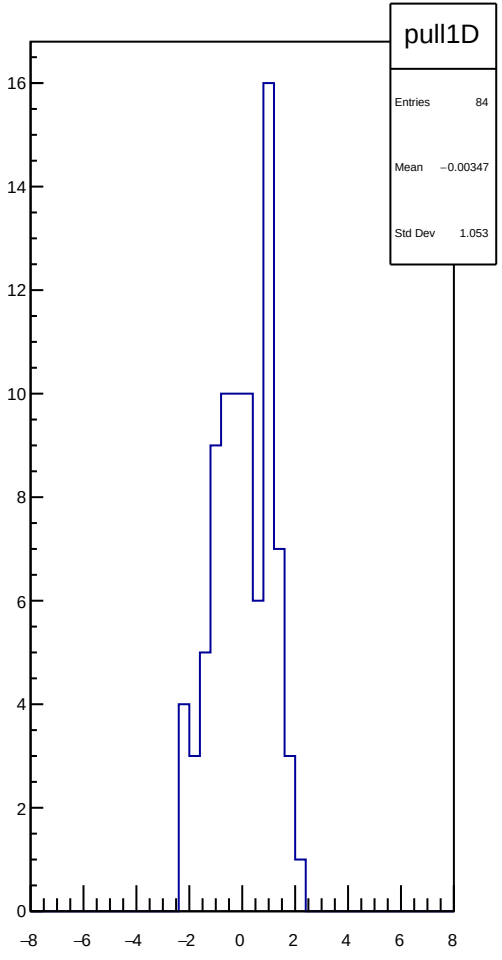

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9095 / 83
p0 22.43 ± 0.01739
26
24
22
20
18

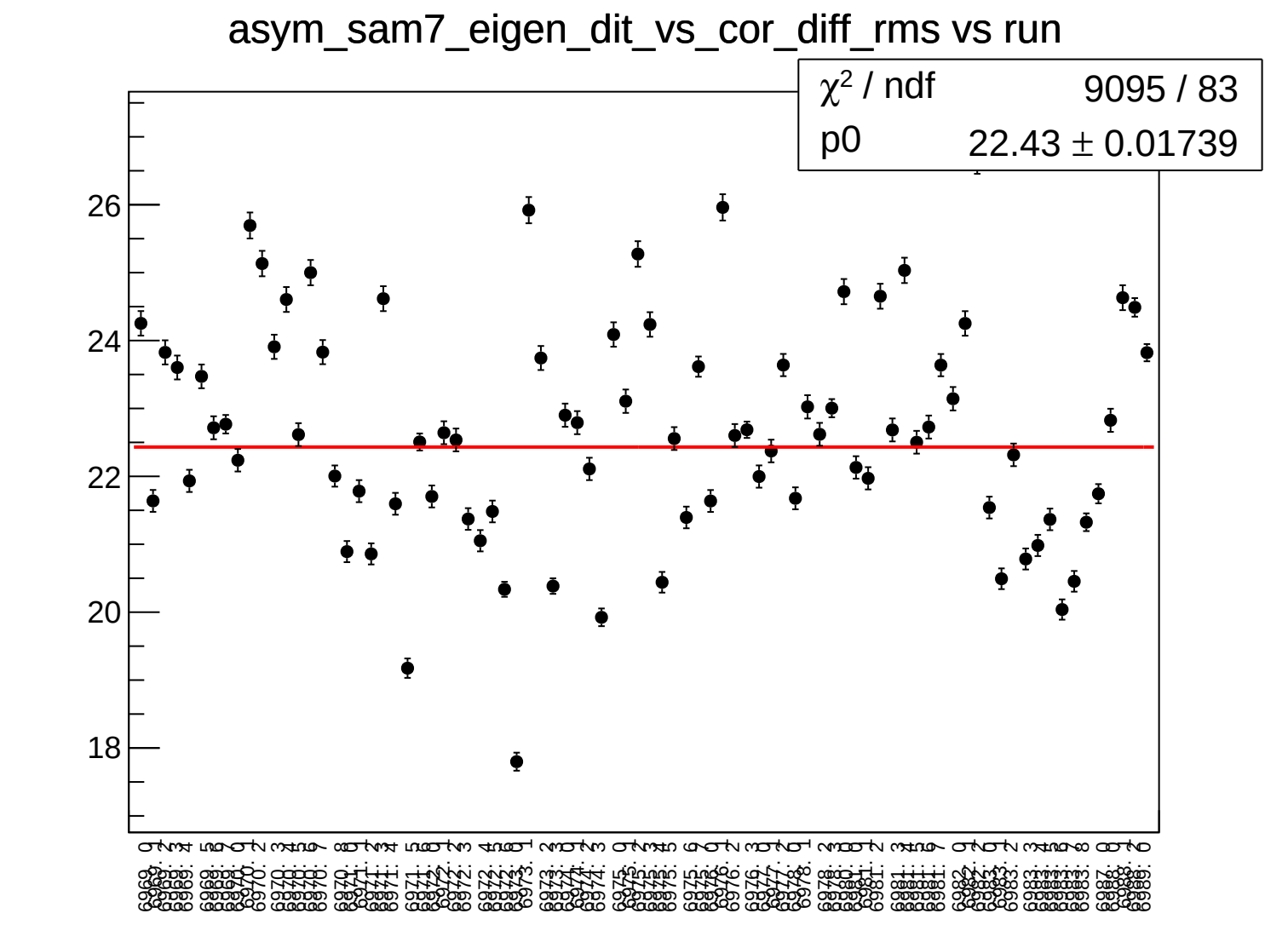

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.58 / 83
p0 3.177e−06 ± 2.862e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean −40.9
Std Dev 0
3
2
1
0
−1
−2

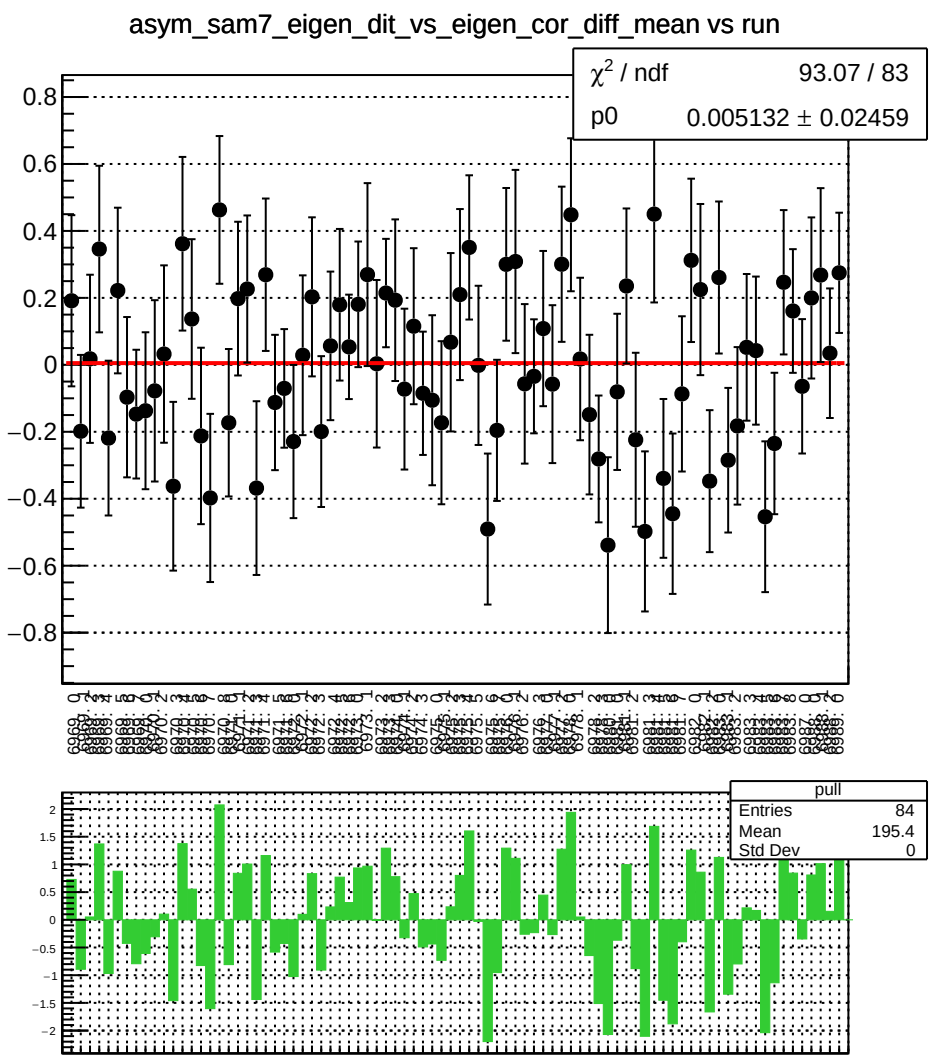

pull1D
Entries 84
Mean 0.02651
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

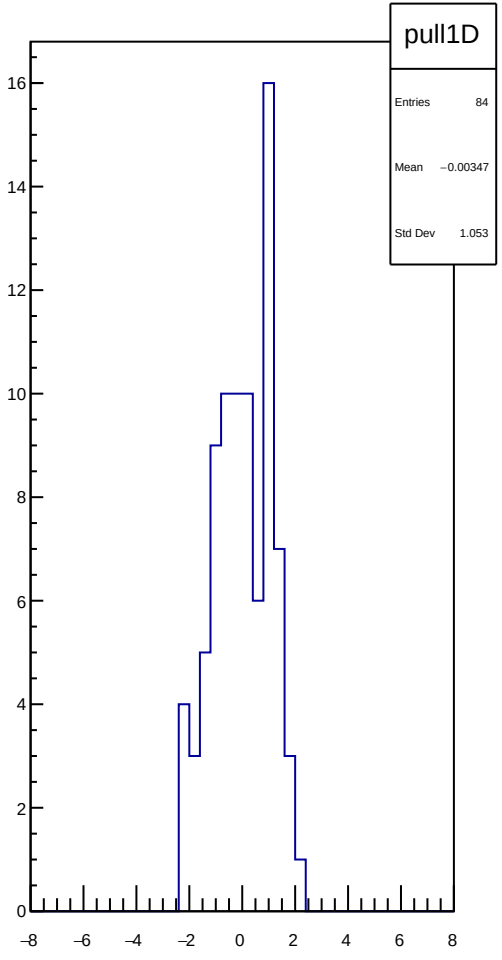

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.689e+04 / 83
p0 0.002589 ± 2.024e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

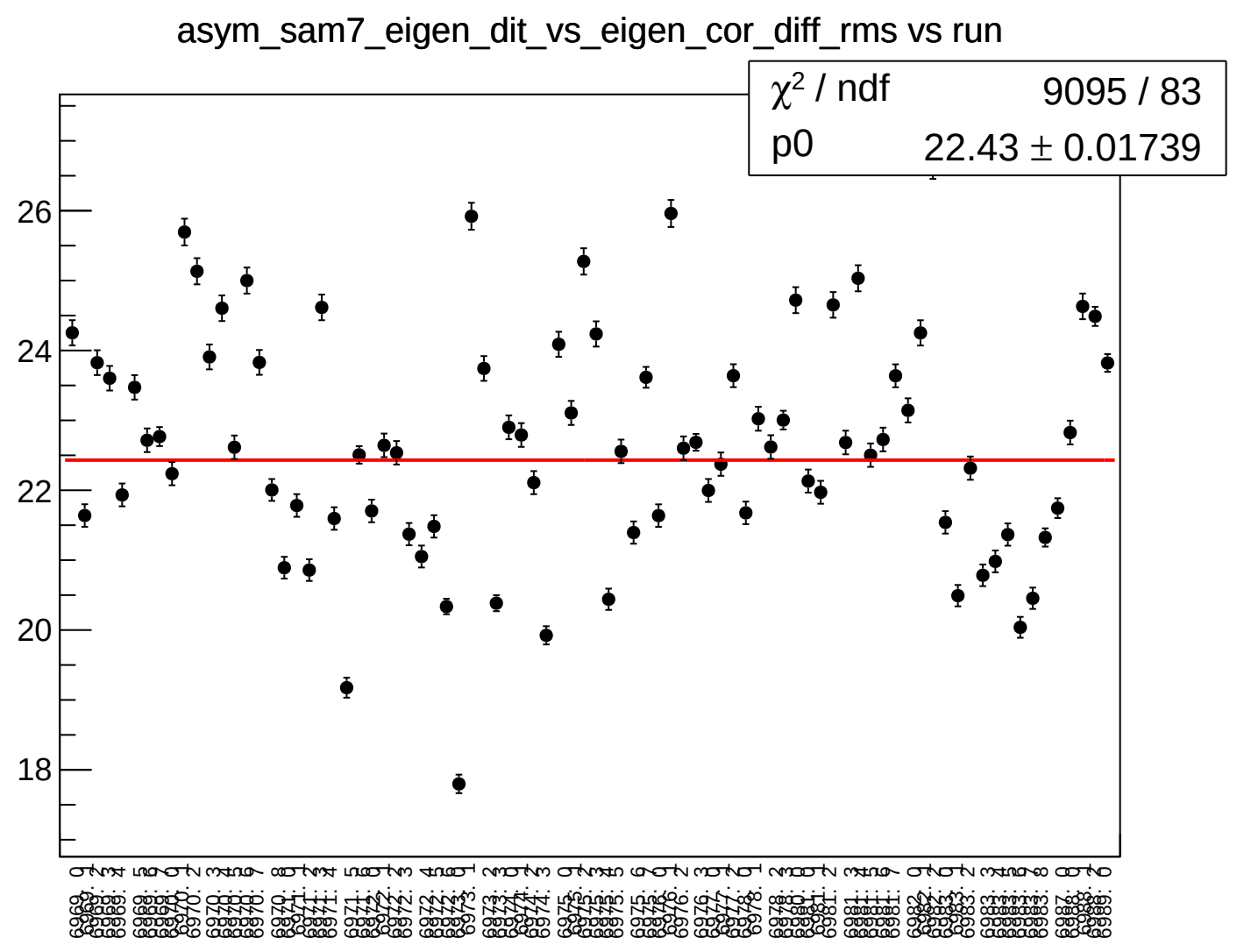

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.07 / 83
p0 0.005132 ± 0.02459
pull
Entries 84
Mean 195.4
Std Dev 0

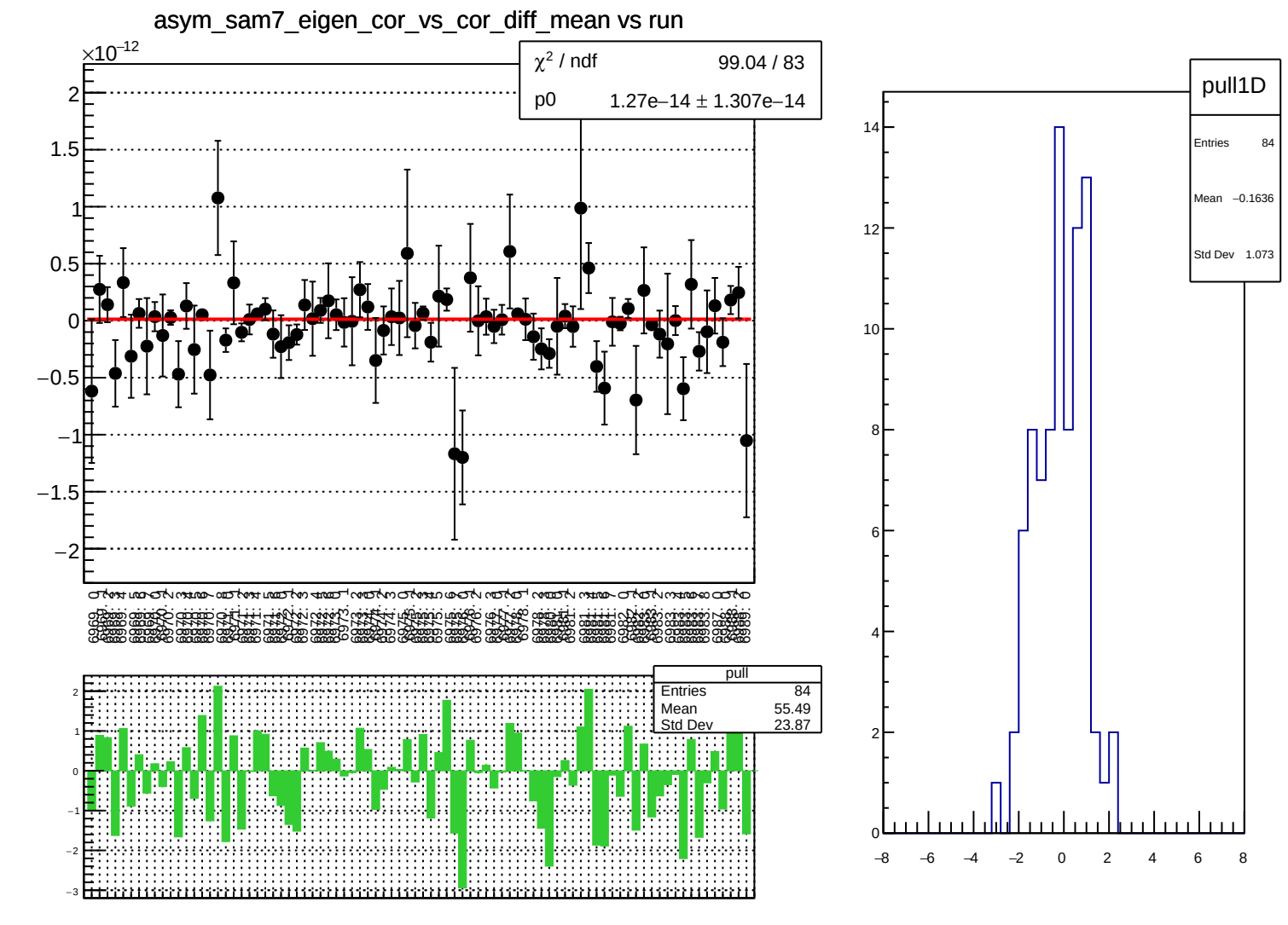

pull1D
Entries 84
Mean −0.00347
Std Dev 1.053

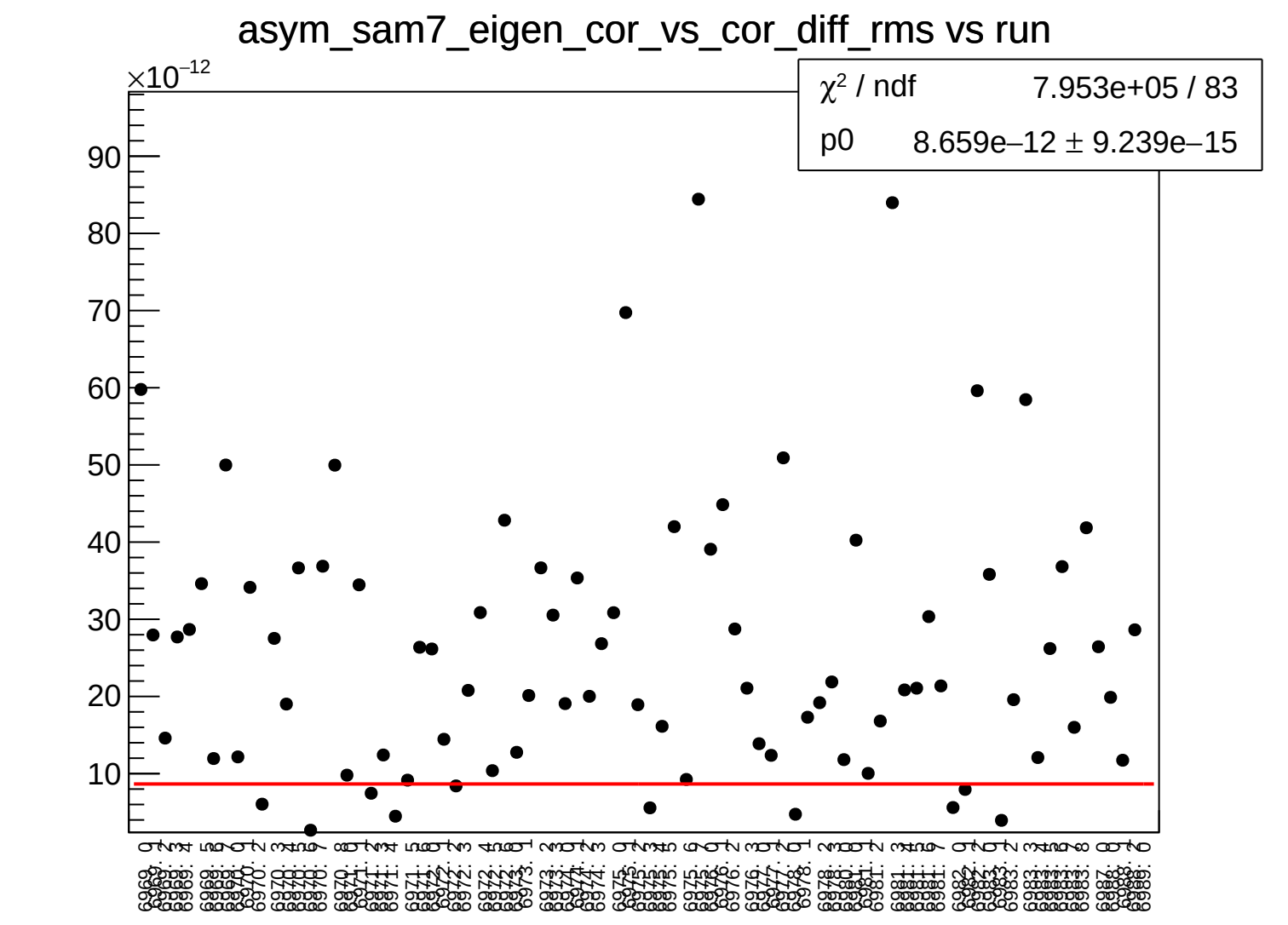

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9095 / 83
p0 22.43 ± 0.01739
26
24
22
20
18

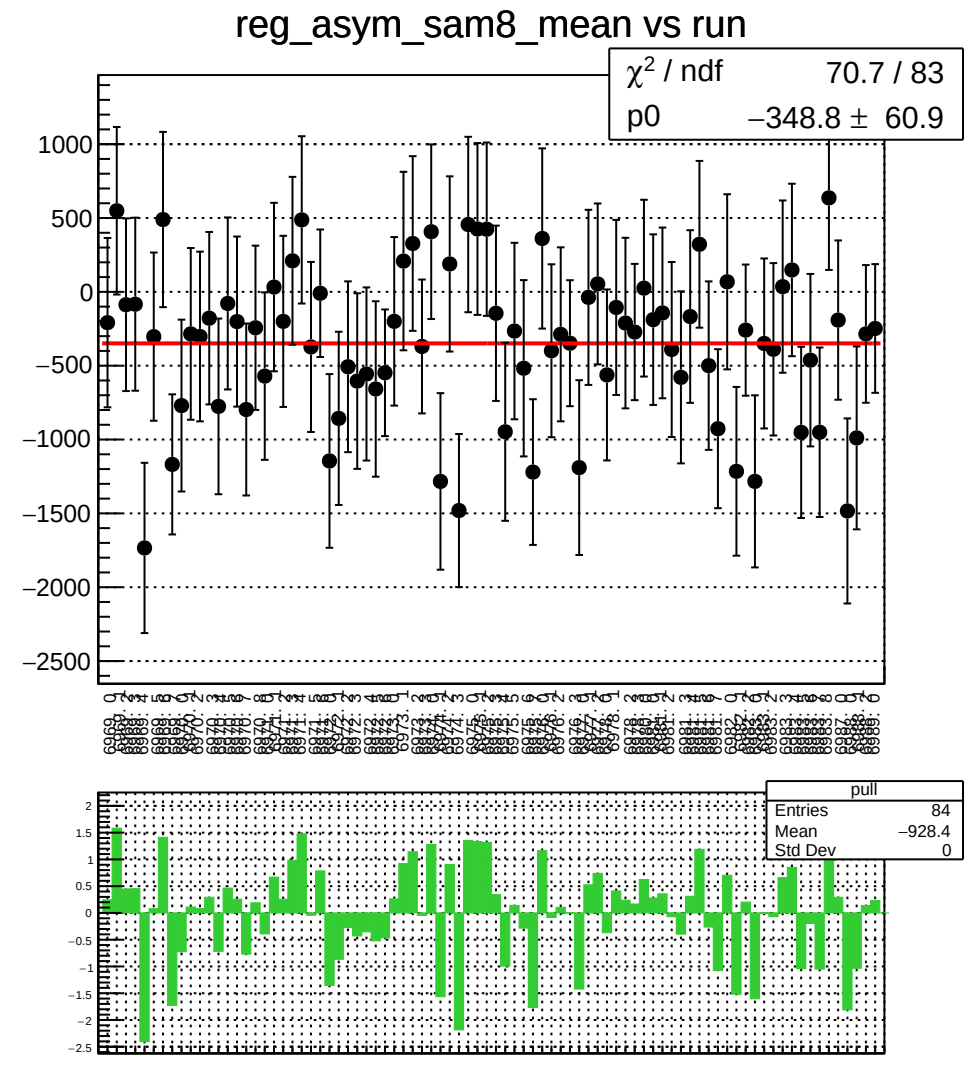

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.07 / 83
p0 0.005132 ± 0.02459
pull
Entries 84
Mean 195.4
Std Dev 0

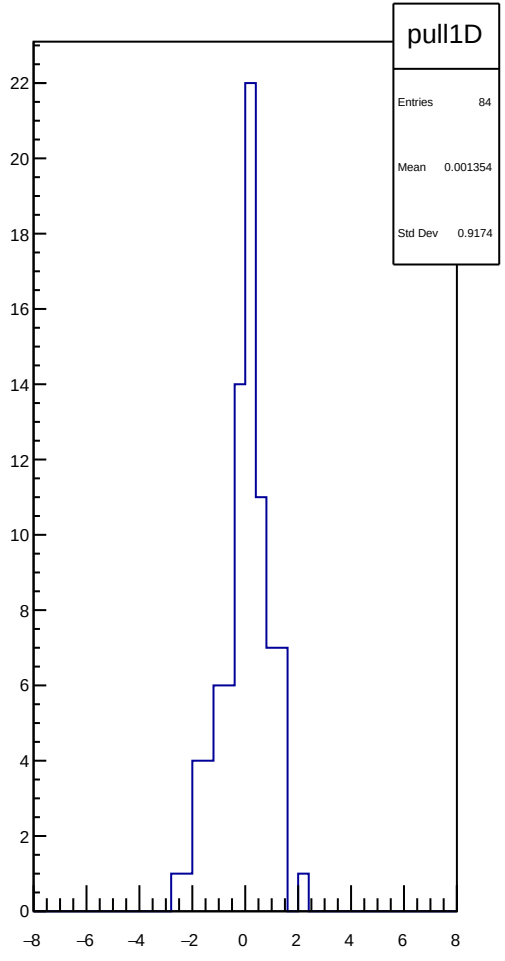

pull1D
Entries 84
Mean −0.00347
Std Dev 1.053

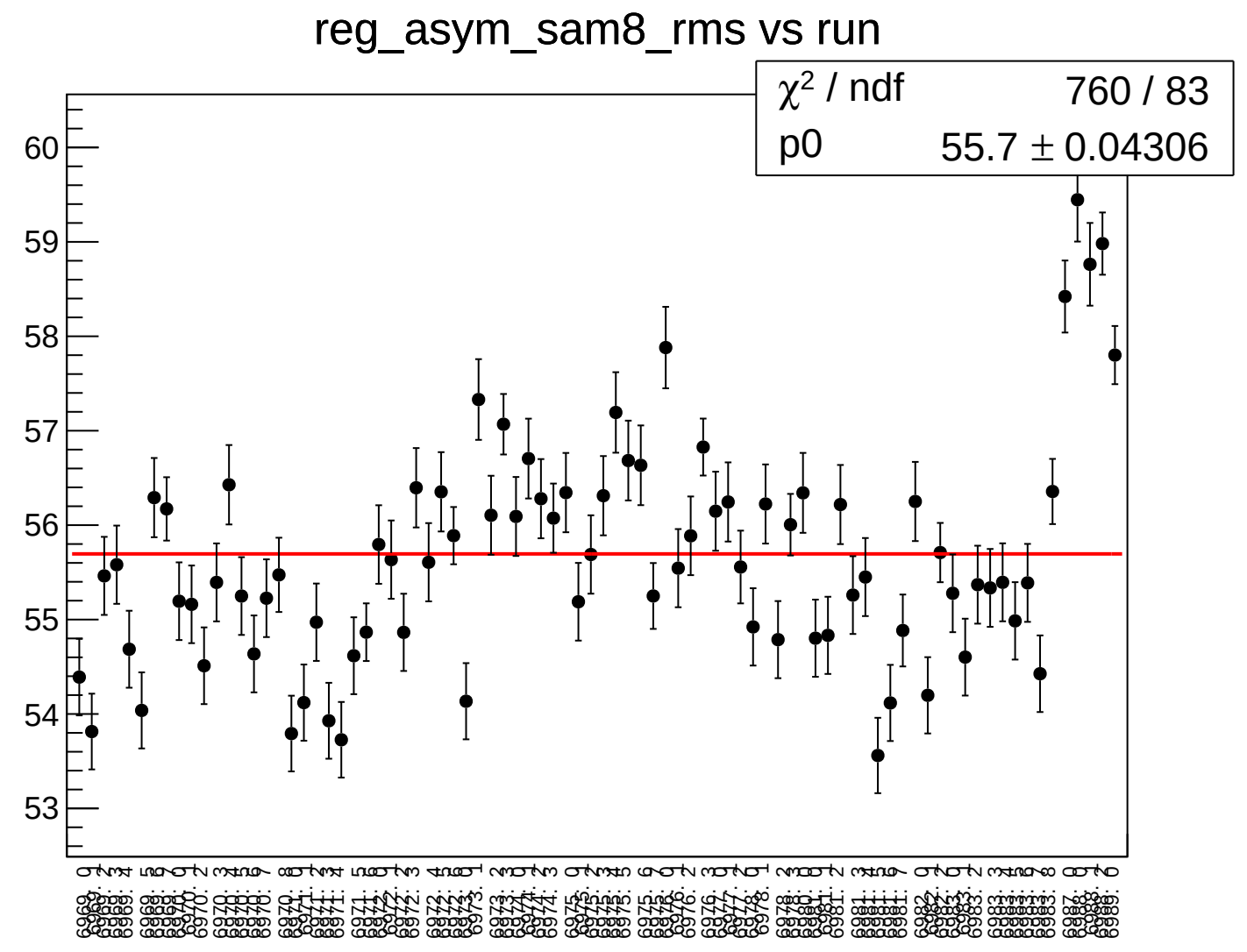

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9095 / 83
p0 22.43 ± 0.01739
26
24
22
20
18

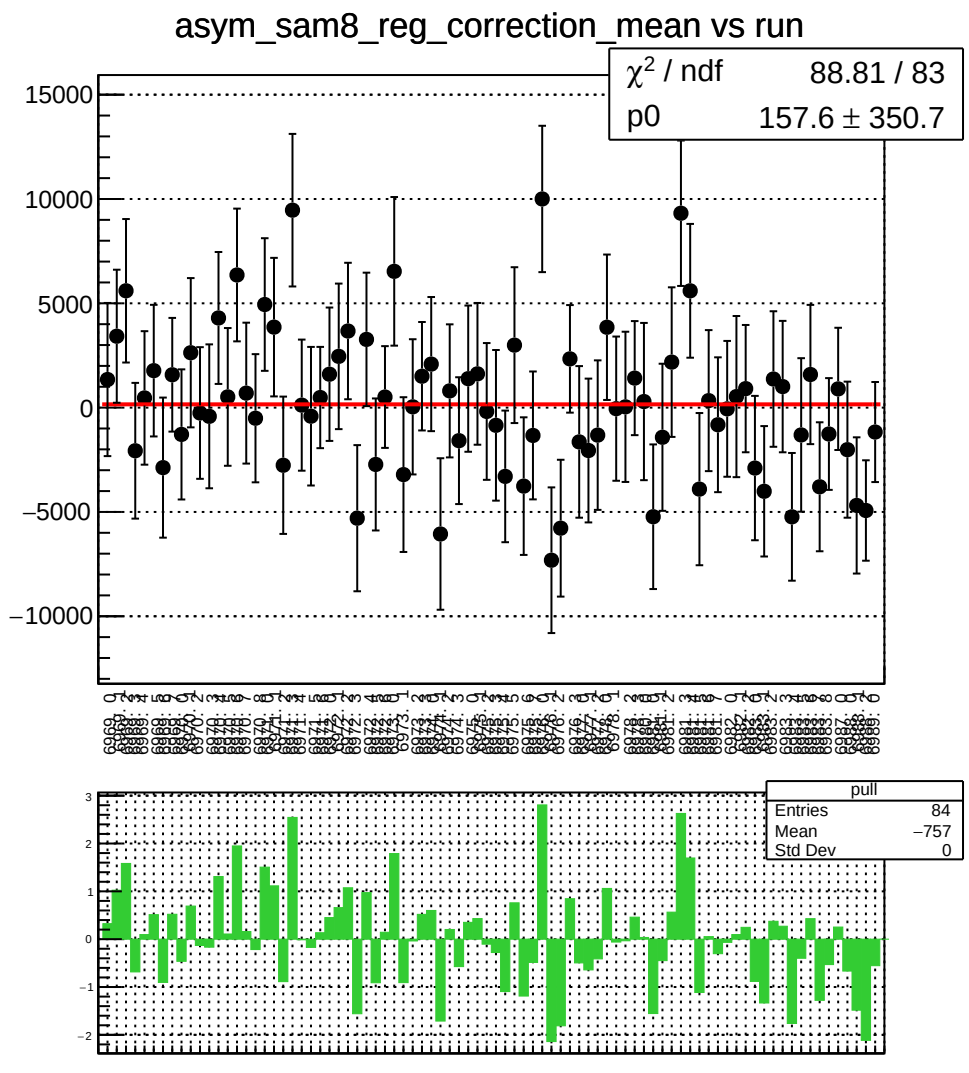

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.04 / 83
p0 1.27e−14 ± 1.307e−14
pull
Entries 84
Mean 55.49
Std Dev 23.87
pull1D
Entries 84
Mean −0.1636
Std Dev 1.073

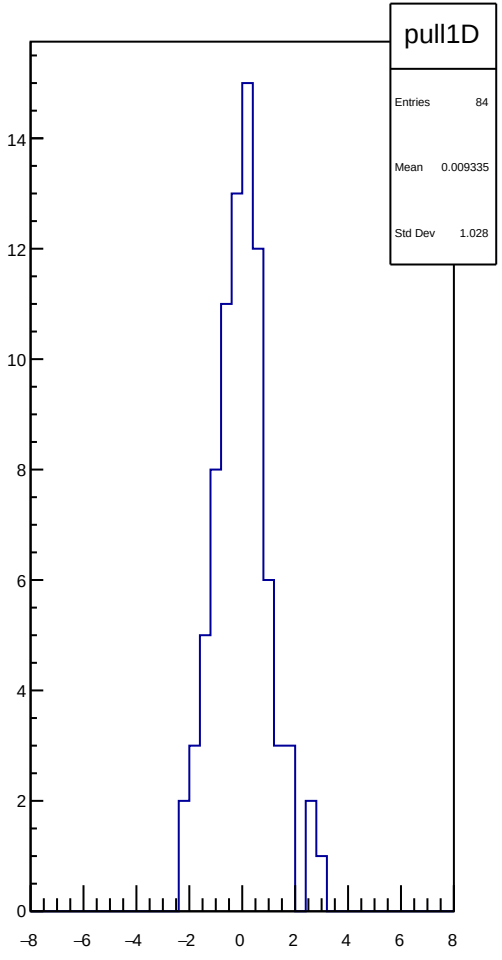

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.953e+05 / 83
p0 8.659e−12 ± 9.239e−15
90
80
70
60
50
40
30
20
10

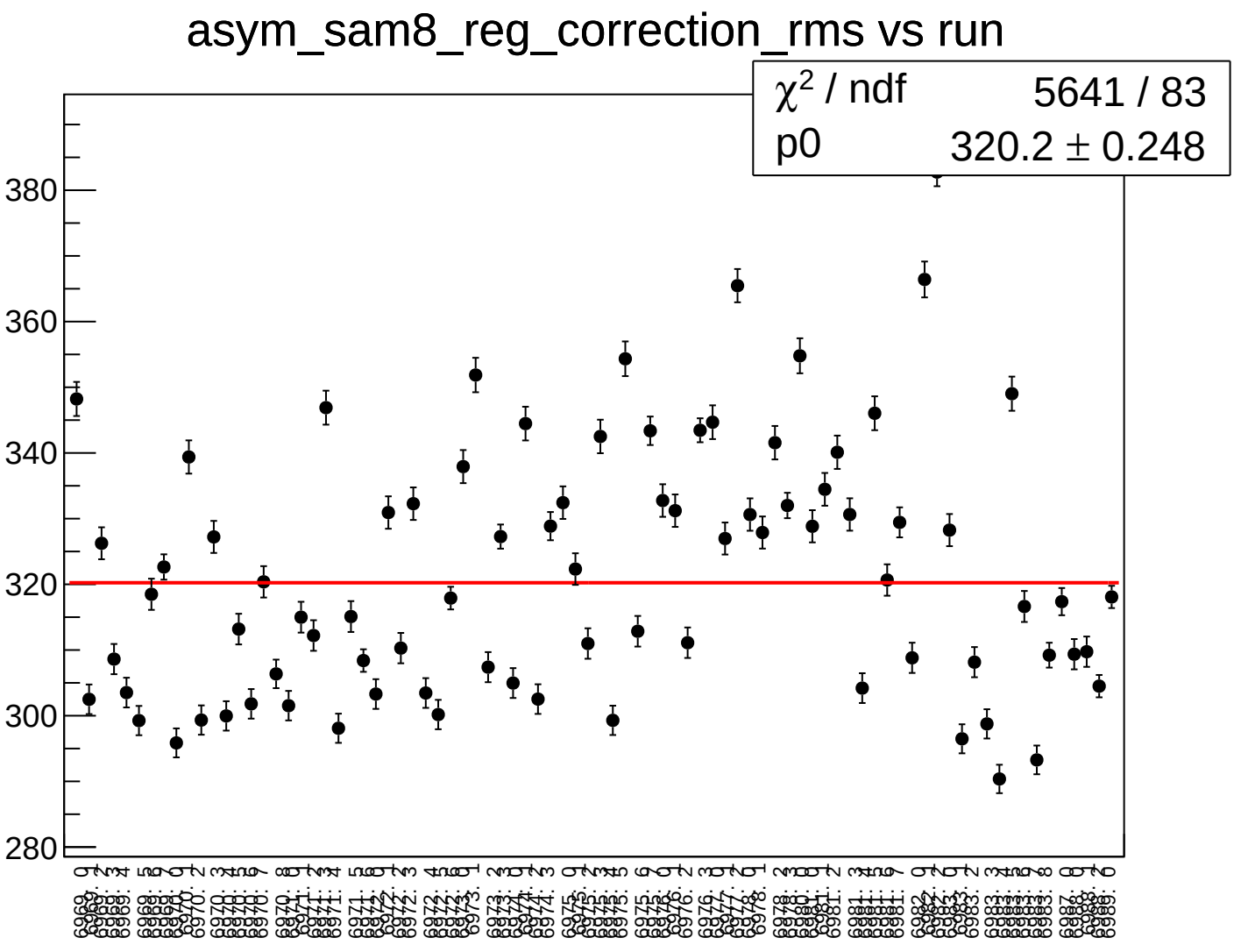

reg_asym_sam8_mean vs run
χ² / ndf 70.7 / 83
p0 −348.8 ± 60.9
pull
Entries 84
Mean −928.4
Std Dev 0

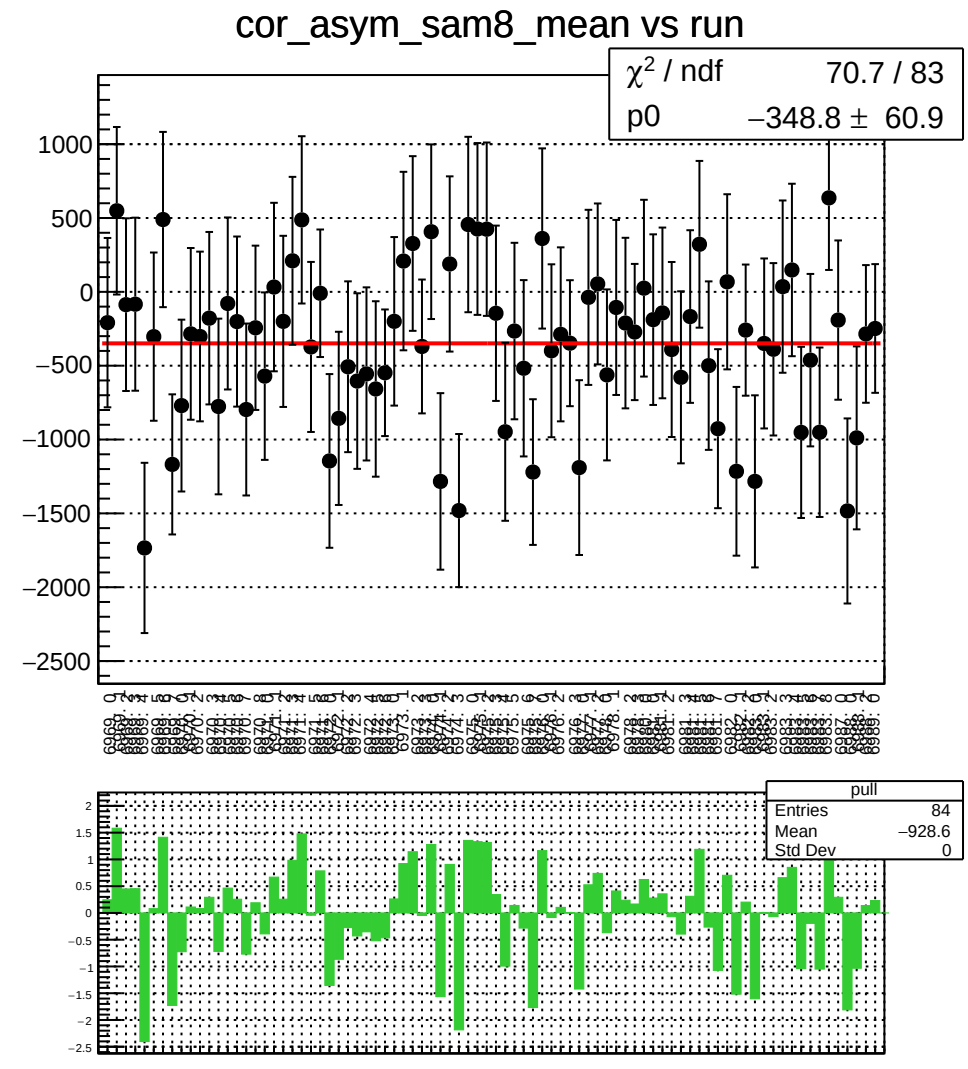

pull1D
Entries 84
Mean 0.001354
Std Dev 0.9174

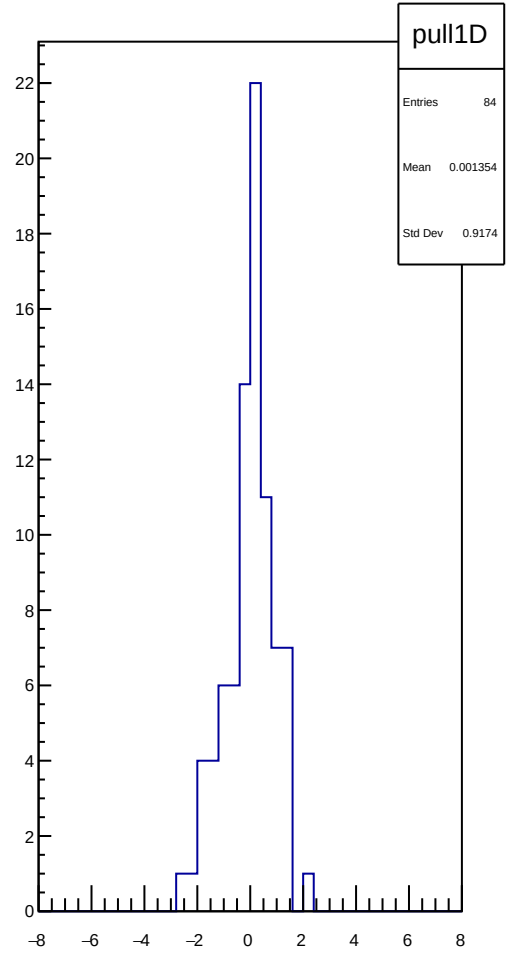

reg_asym_sam8_rms vs run
χ² / ndf 760 / 83
p0 55.7 ± 0.04306
60
59
58
57
56
55
54
53

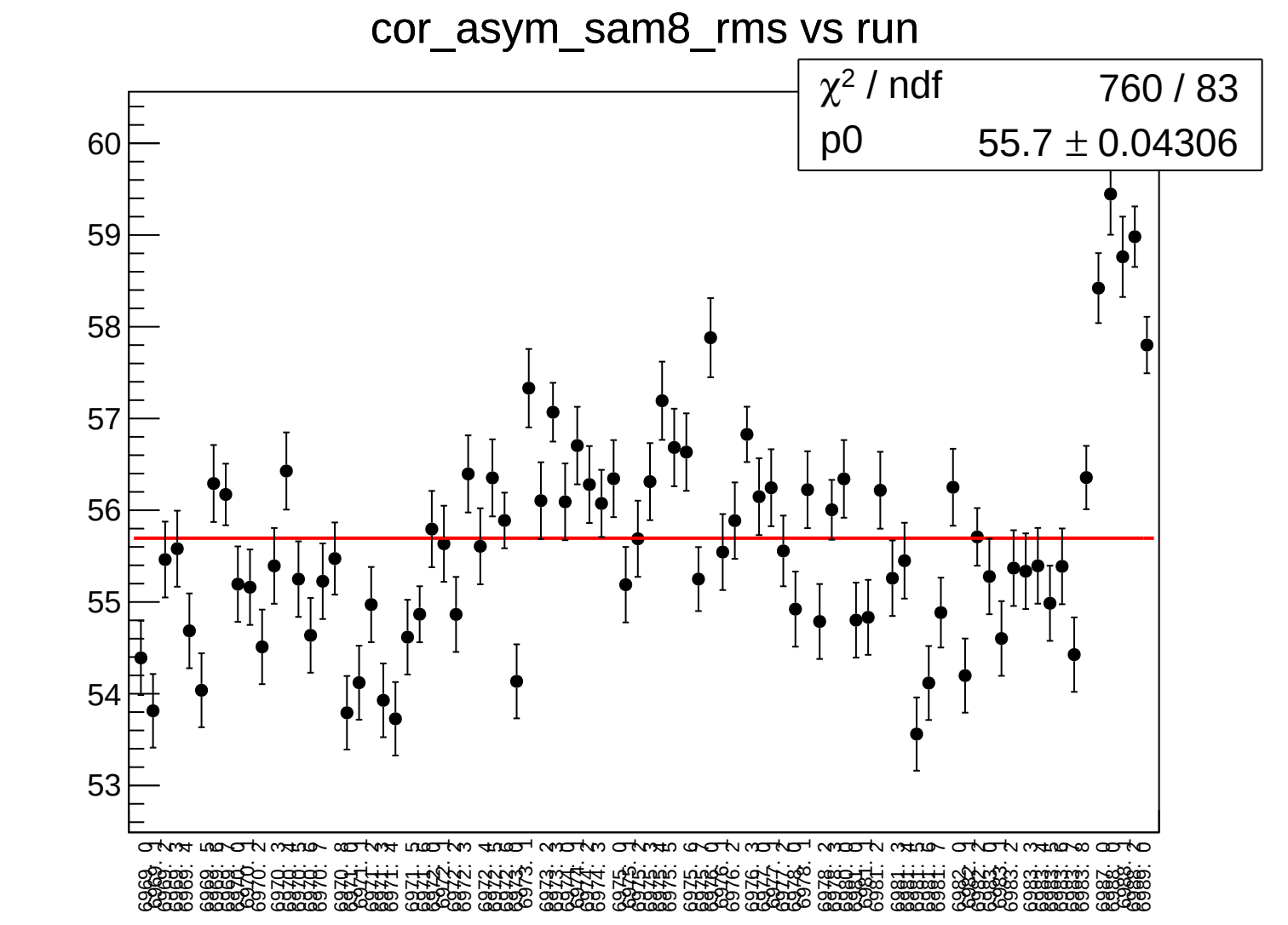

asym_sam8_reg_correction_mean vs run
χ² / ndf 88.81 / 83
p0 157.6 ± 350.7
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −757
Std Dev 0
3
2
1
0
−1
−2

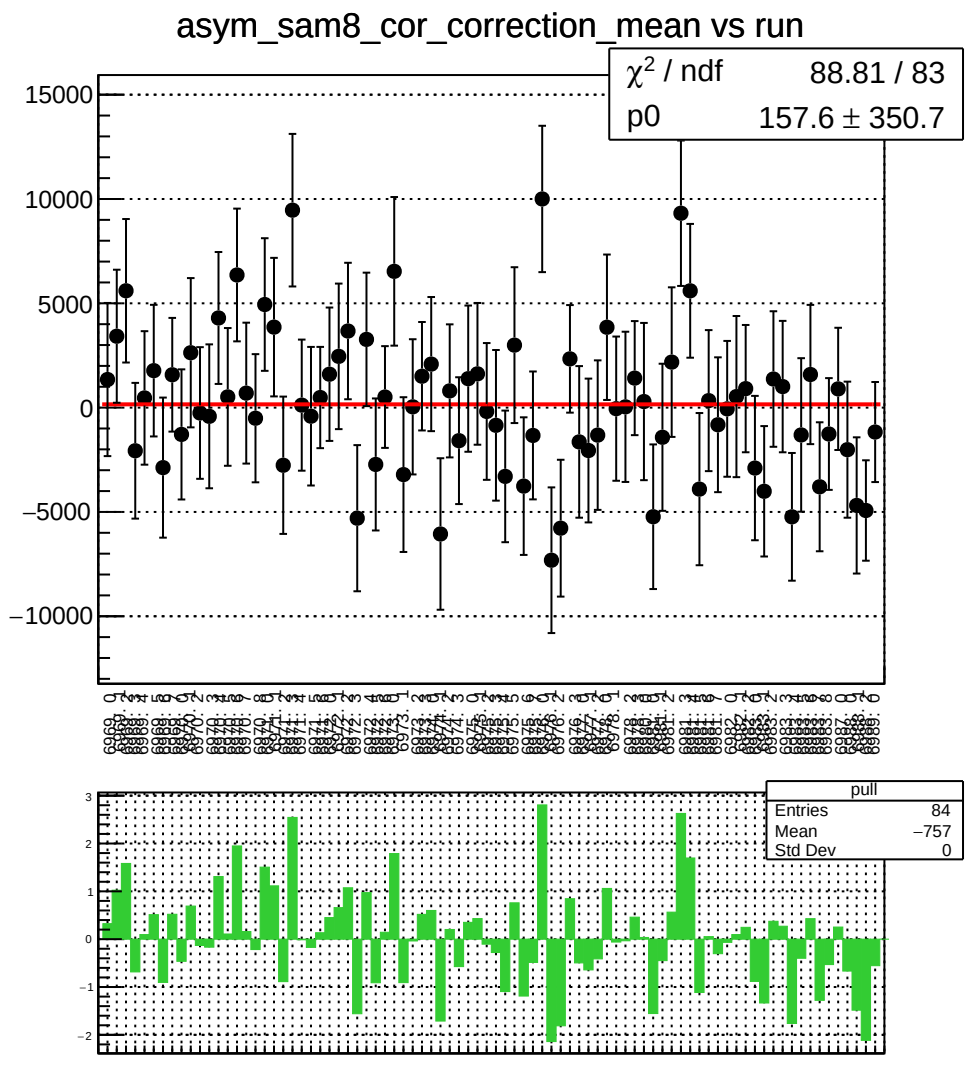

pull1D
Entries 84
Mean 0.009335
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

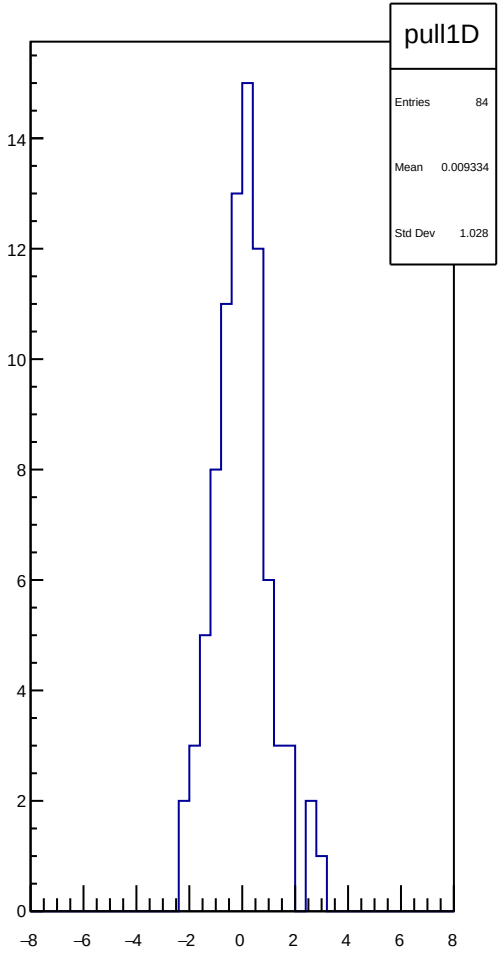

asym_sam8_reg_correction_rms vs run
χ² / ndf 5641 / 83
p0 320.2 ± 0.248
380
360
340
320
300
280

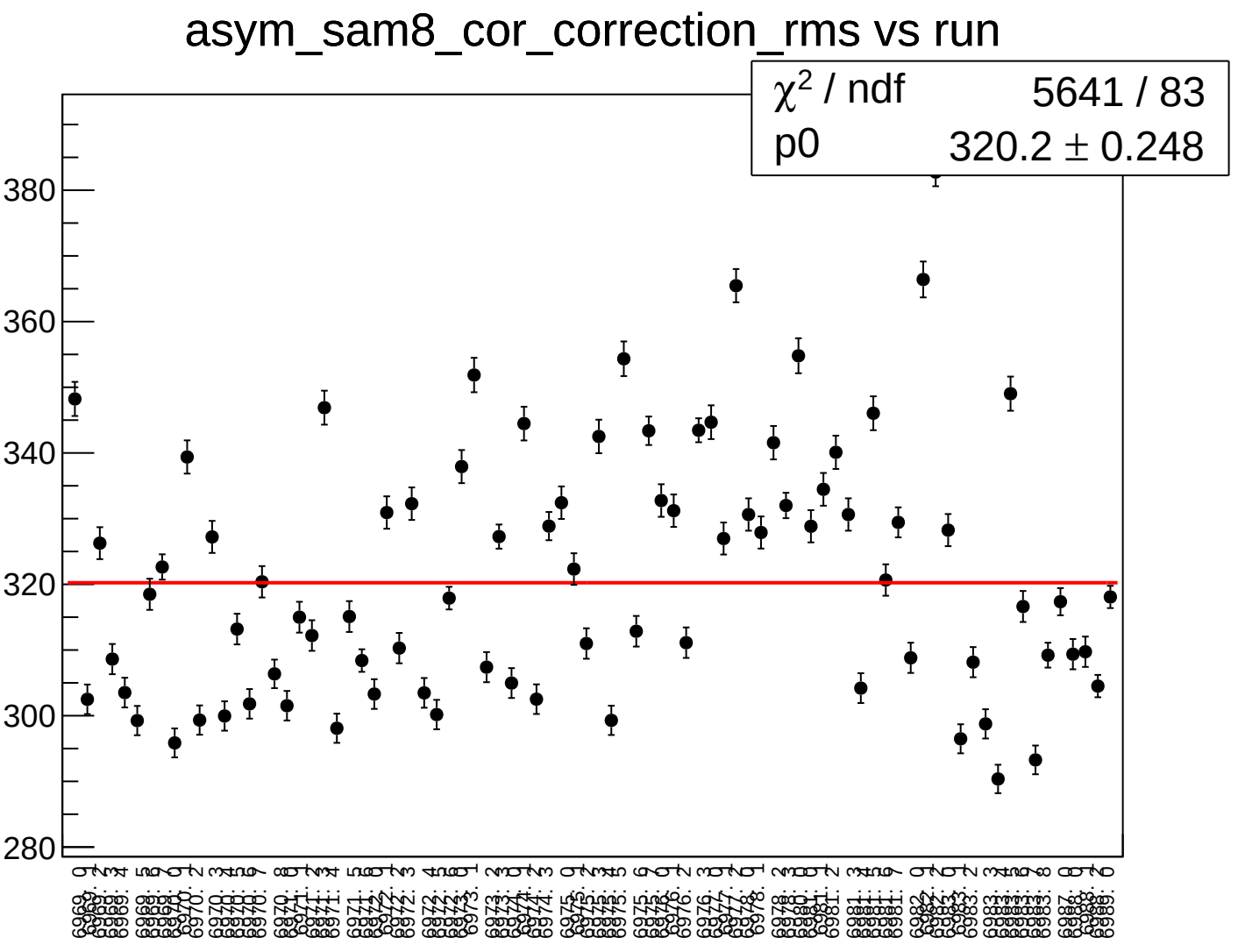

cor_asym_sam8_mean vs run
χ² / ndf 70.7 / 83
p0 −348.8 ± 60.9
pull
Entries 84
Mean −928.6
Std Dev 0

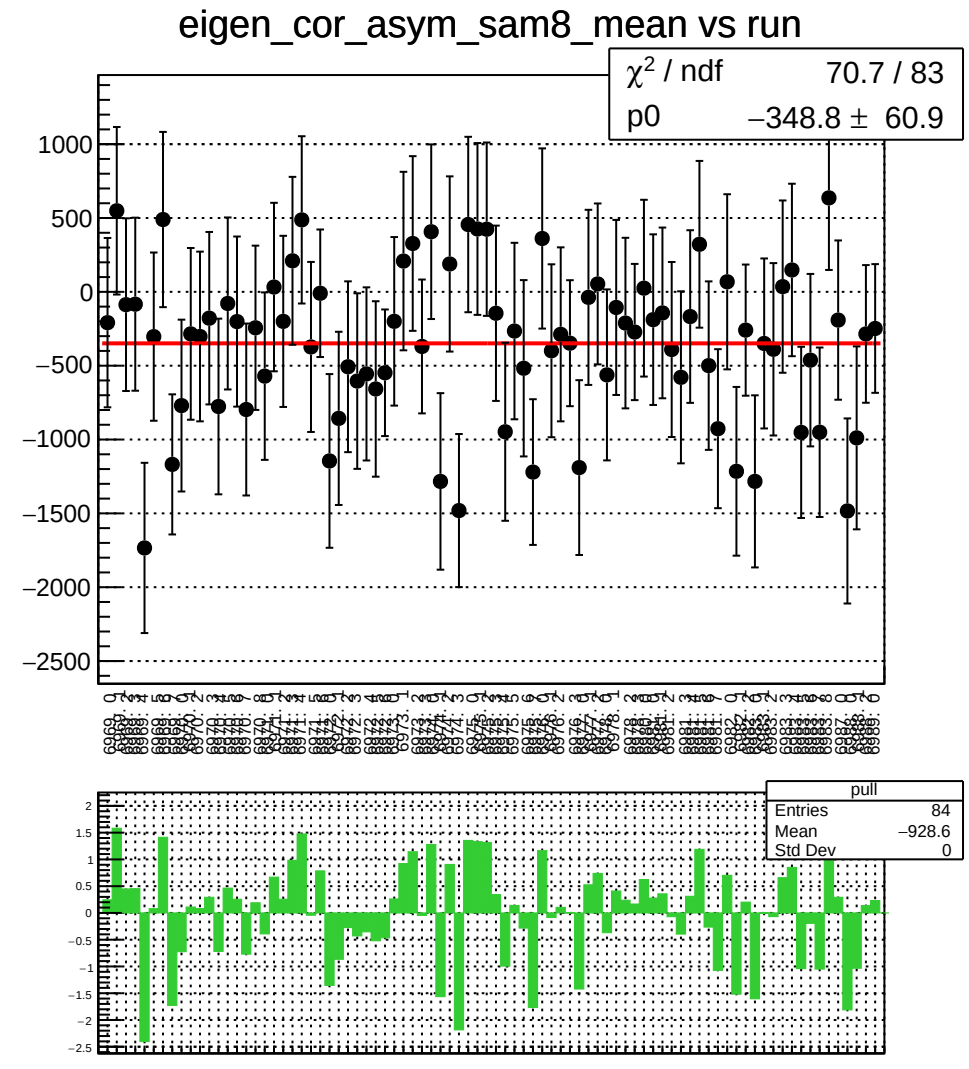

pull1D
Entries 84
Mean 0.001354
Std Dev 0.9174

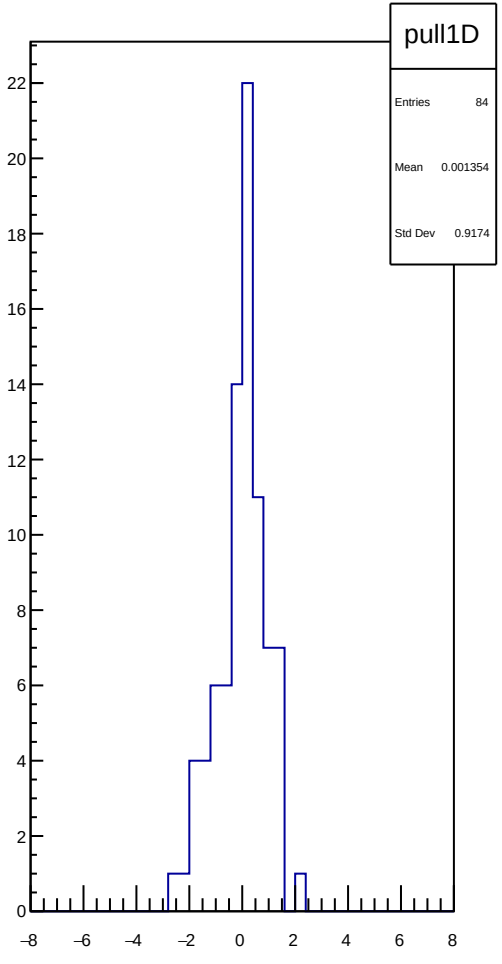

cor_asym_sam8_rms vs run
χ² / ndf 760 / 83
p0 55.7 ± 0.04306
60
59
58
57
56
55
54
53

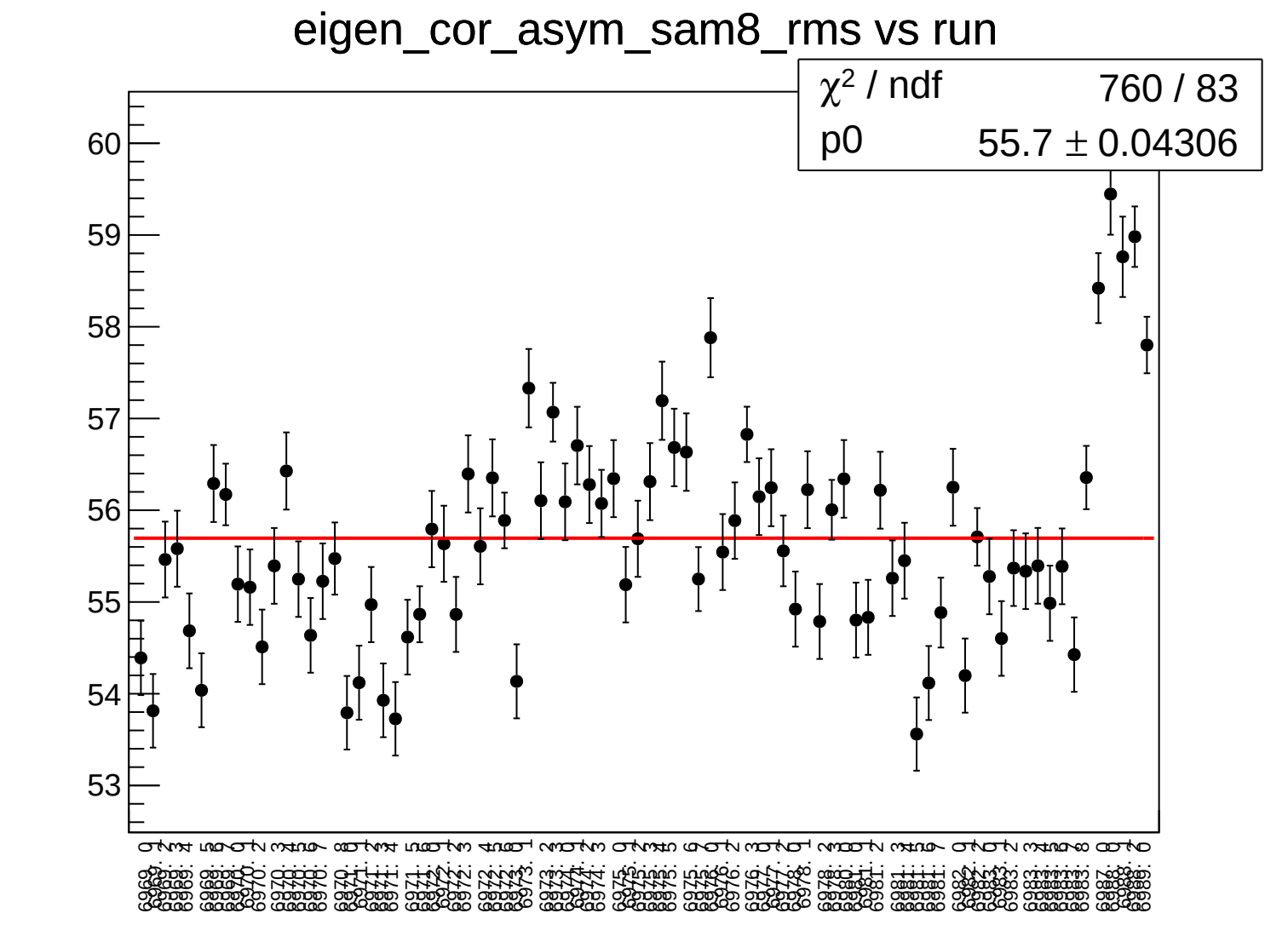

asym_sam8_cor_correction_mean vs run
χ² / ndf 88.81 / 83
p0 157.6 ± 350.7
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −757
Std Dev 0
3
2
1
0
−1
−2

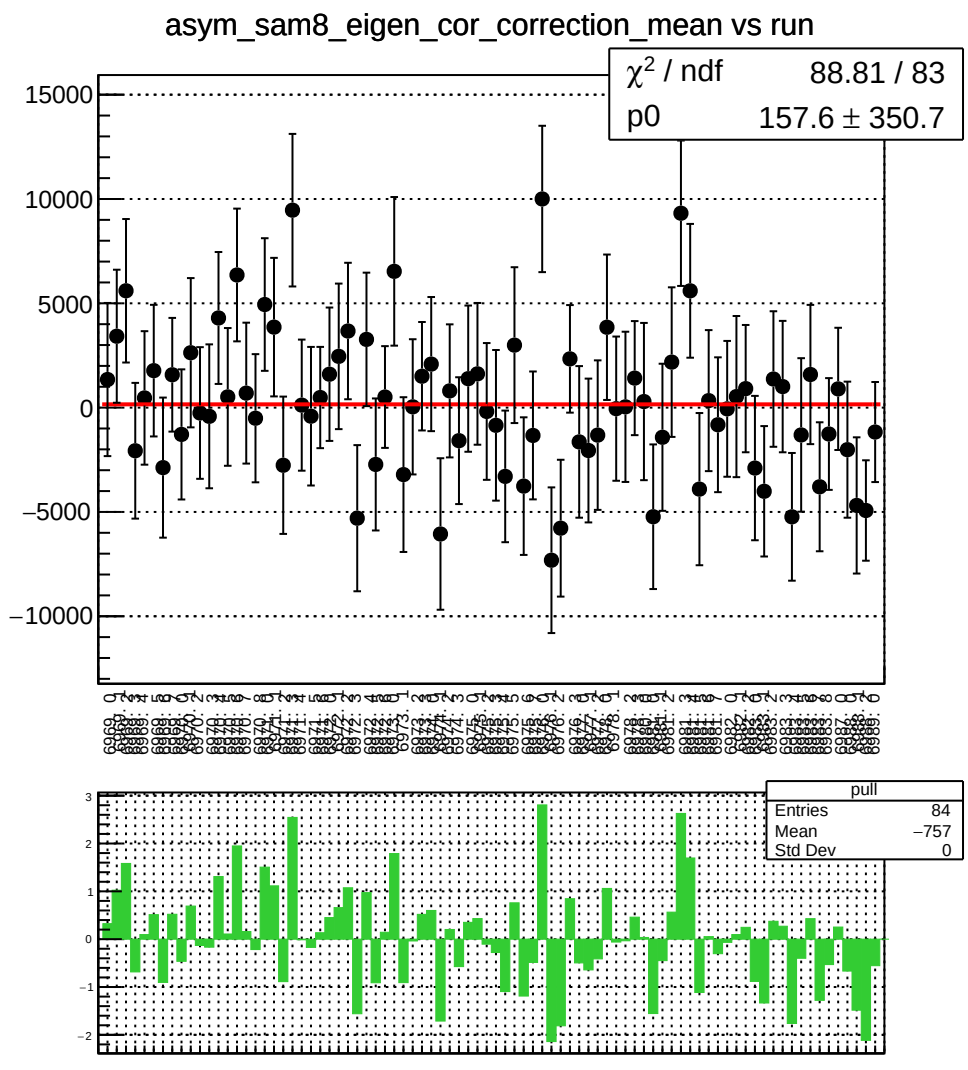

pull1D
Entries 84
Mean 0.009334
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

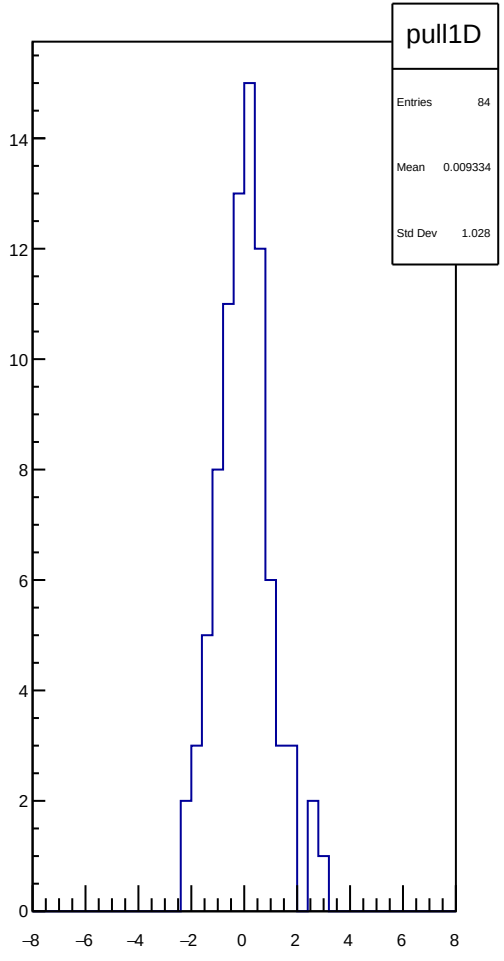

asym_sam8_cor_correction_rms vs run
χ² / ndf 5641 / 83
p0 320.2 ± 0.248
380
360
340
320
300
280

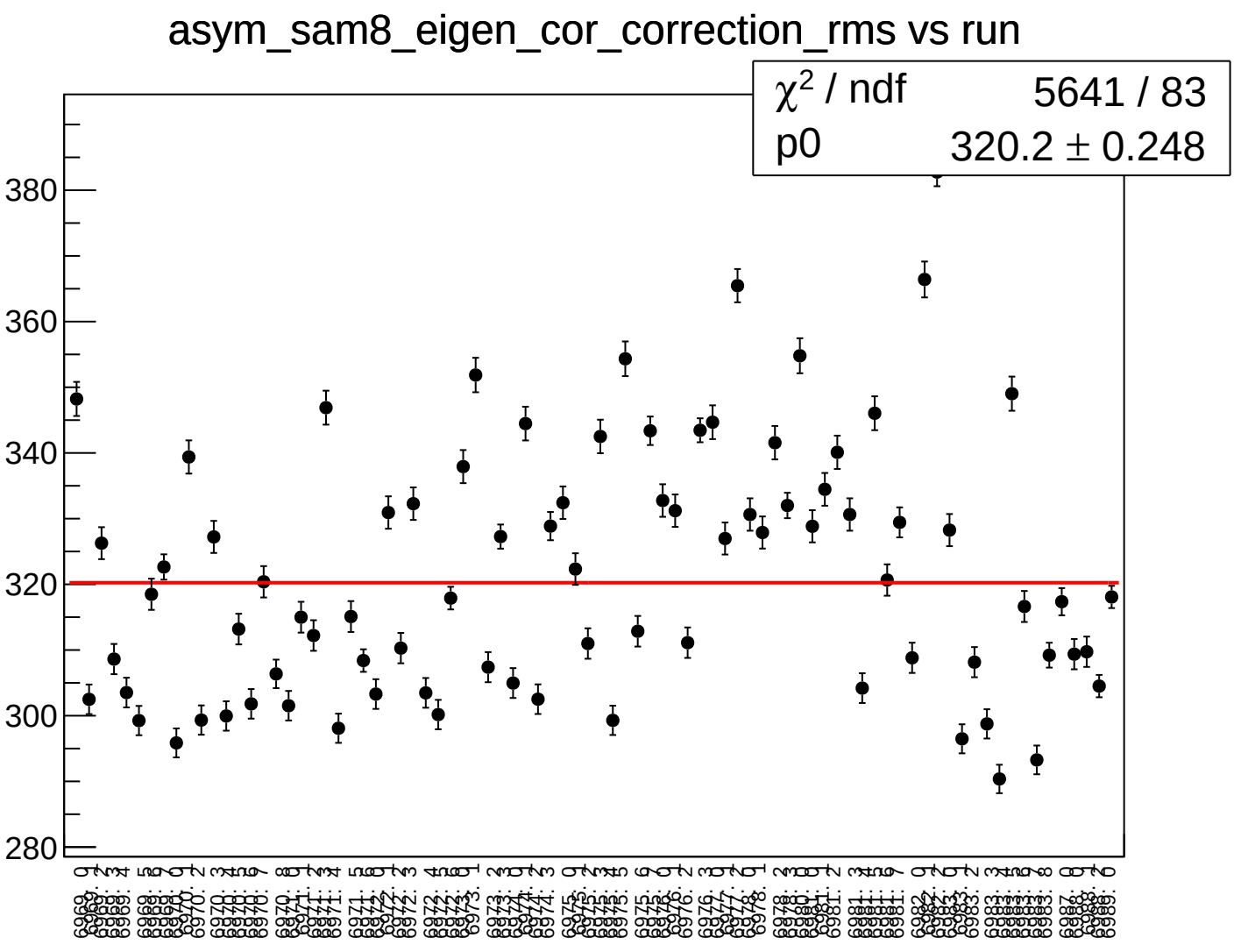

eigen_cor_asym_sam8_mean vs run
χ² / ndf 70.7 / 83
p0 −348.8 ± 60.9
pull
Entries 84
Mean −928.6
Std Dev 0

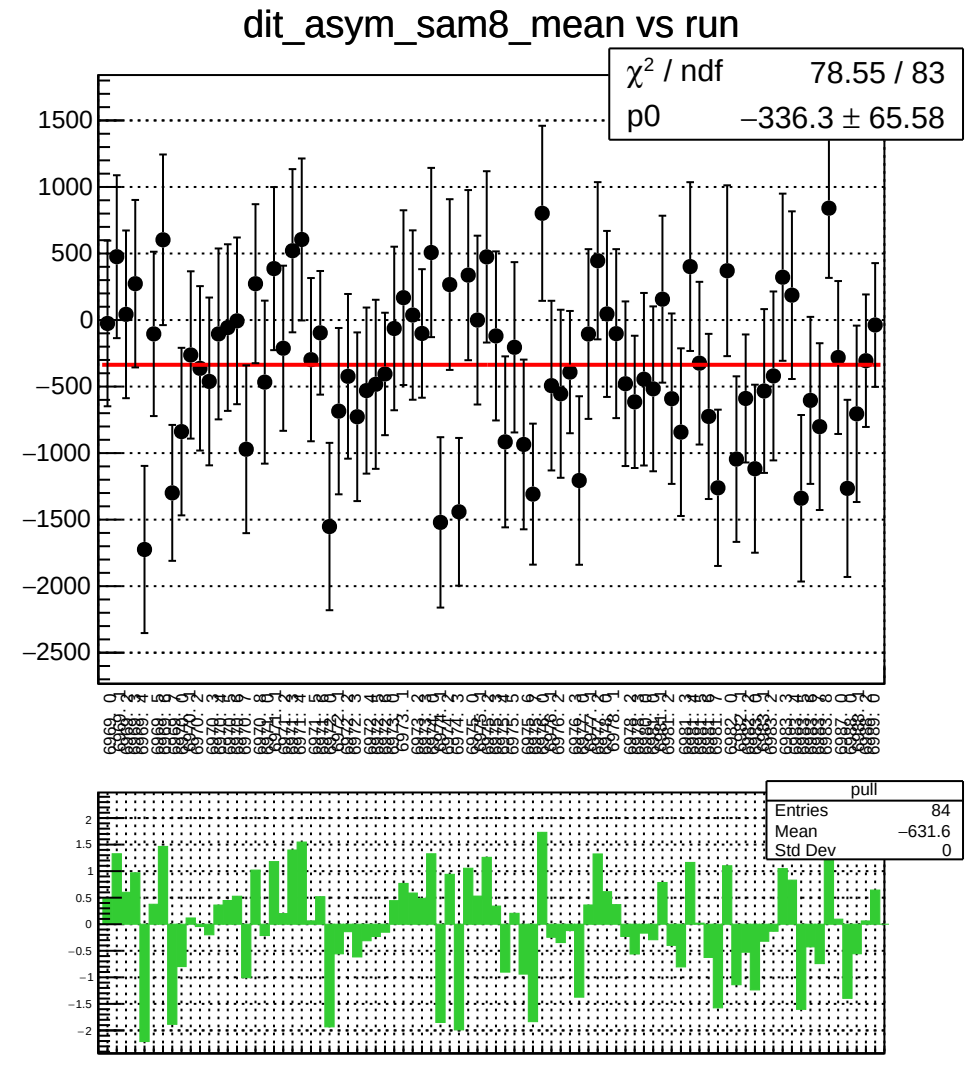

pull1D
Entries 84
Mean 0.001354
Std Dev 0.9174

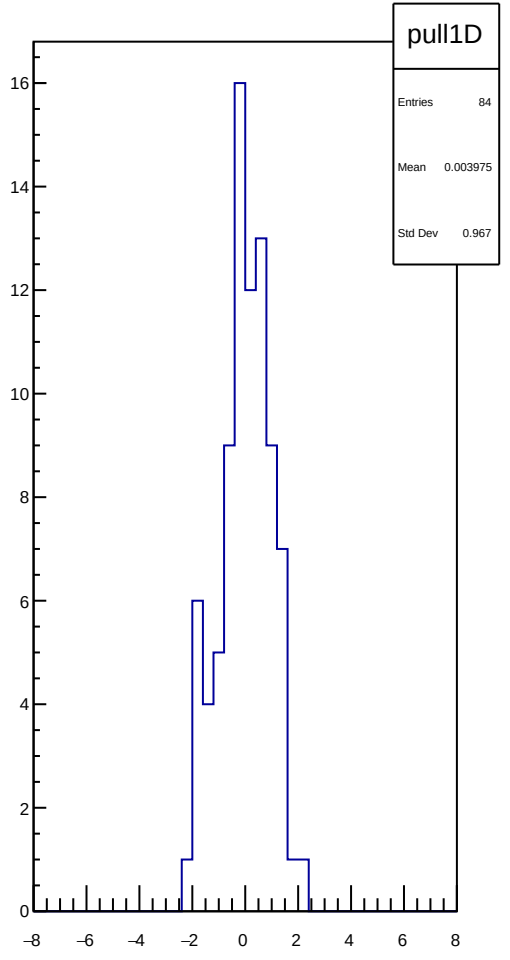

eigen_cor_asym_sam8_rms vs run
χ² / ndf 760 / 83
p0 55.7 ± 0.04306
60
59
58
57
56
55
54
53

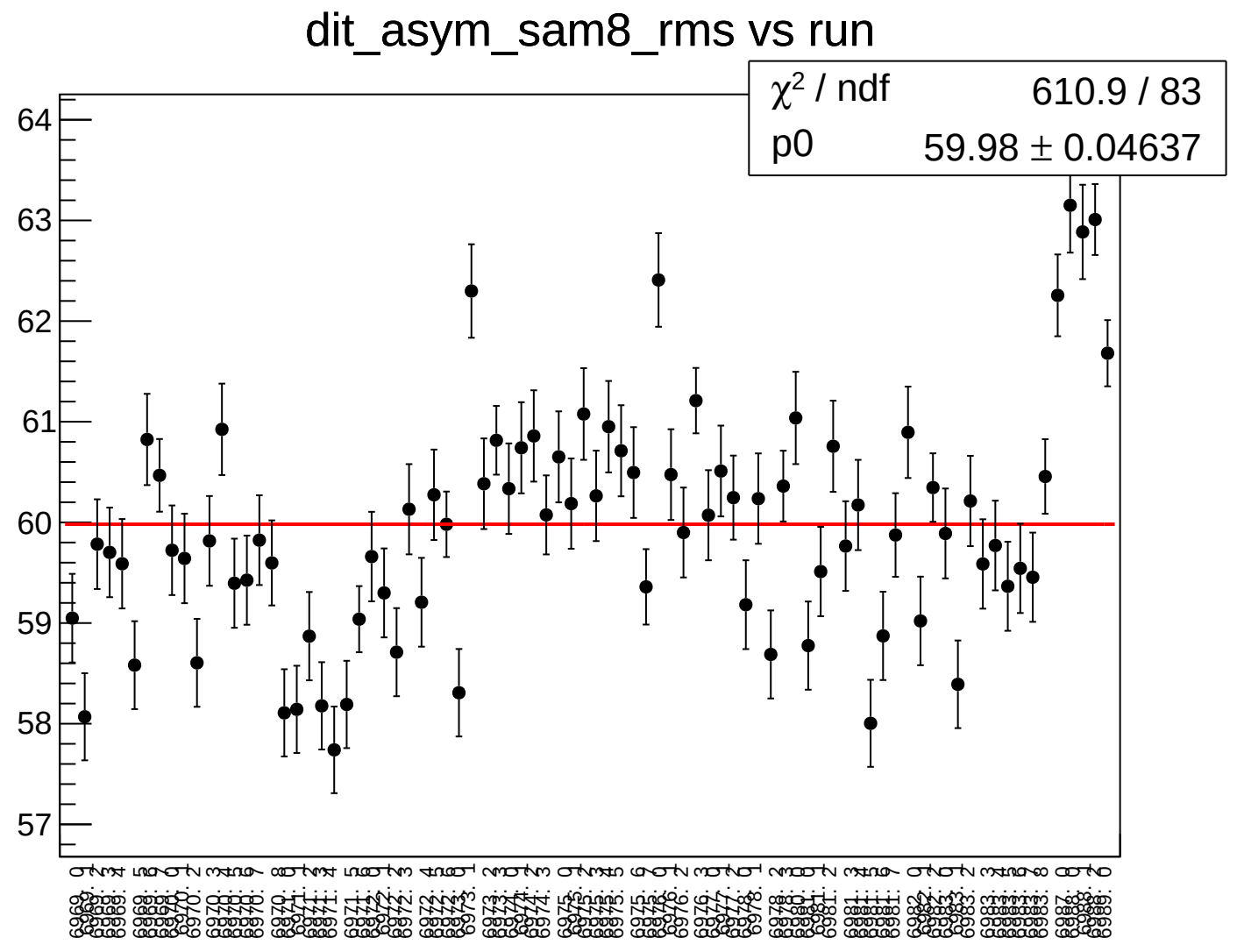

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 88.81 / 83
p0 157.6 ± 350.7
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −757
Std Dev 0
3
2
1
0
−1
−2

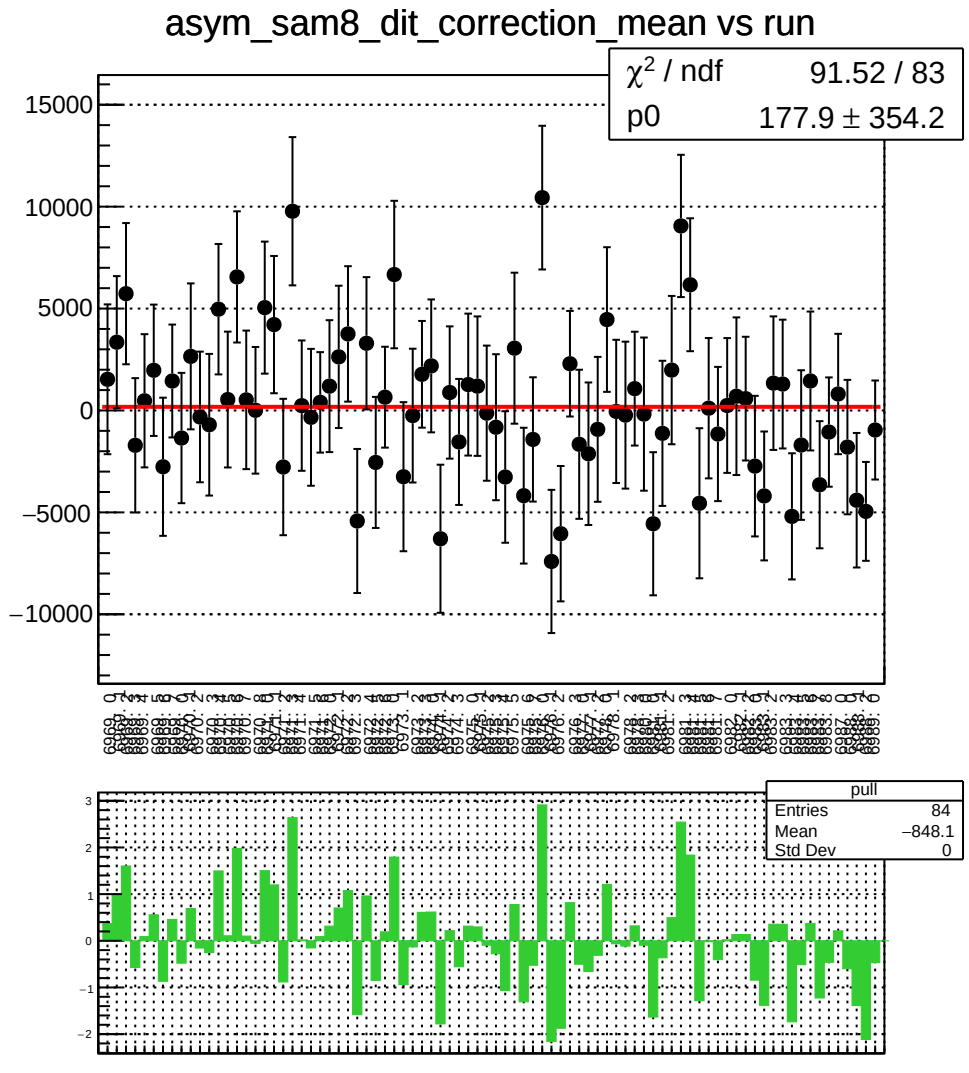

pull1D
Entries 84
Mean 0.009334
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

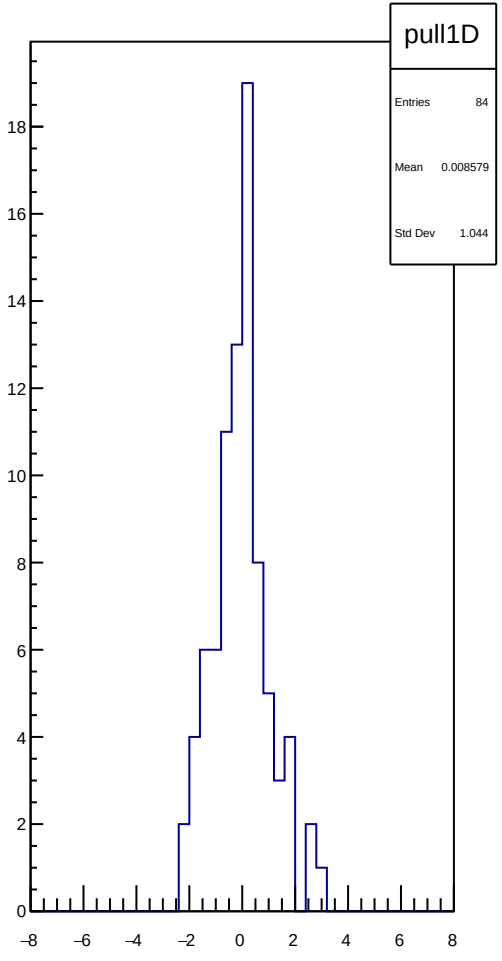

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 5641 / 83
p0 320.2 ± 0.248
380
360
340
320
300
280

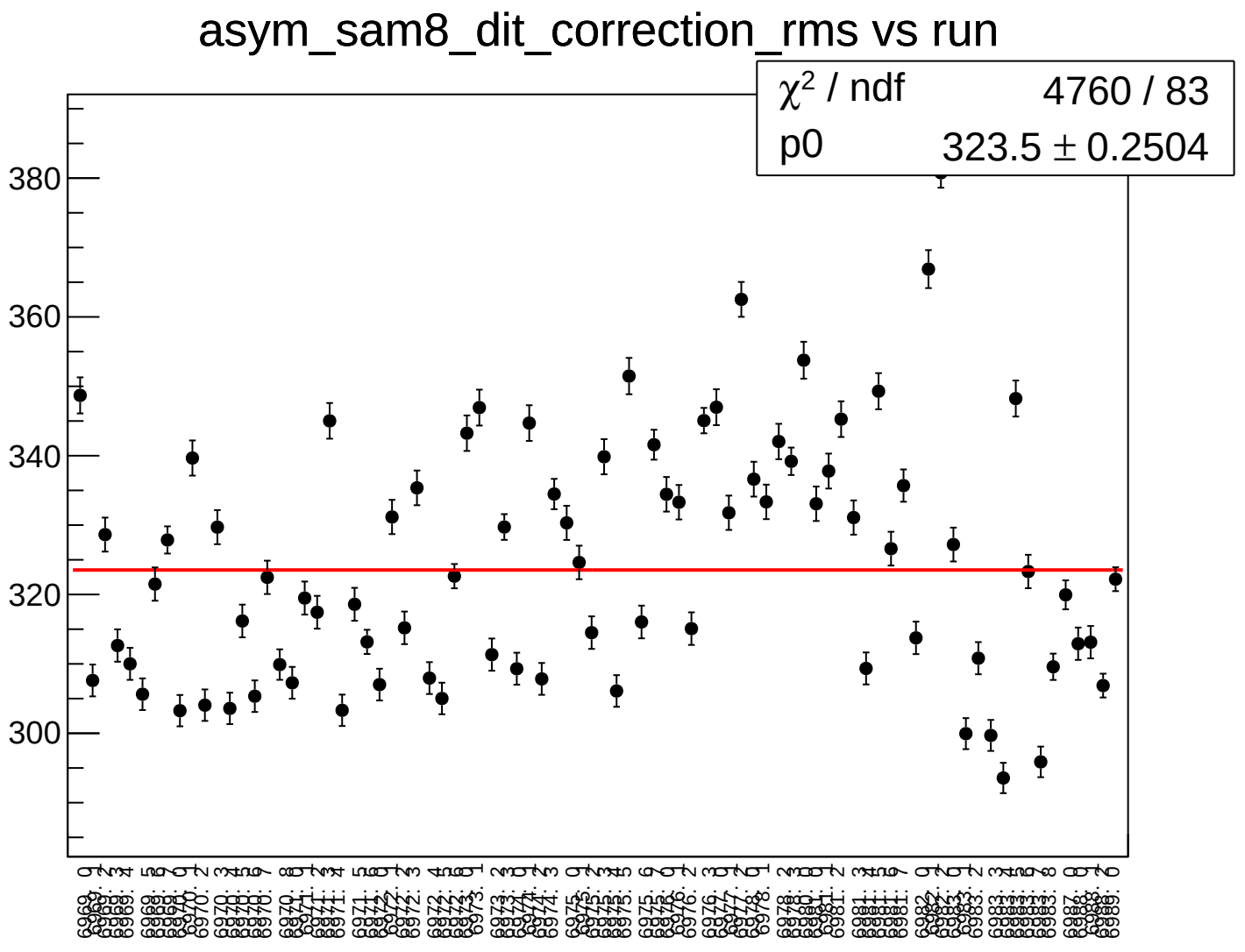

dit_asym_sam8_mean vs run
χ² / ndf 78.55 / 83
p0 −336.3 ± 65.58
pull
Entries 84
Mean −631.6
Std Dev 0

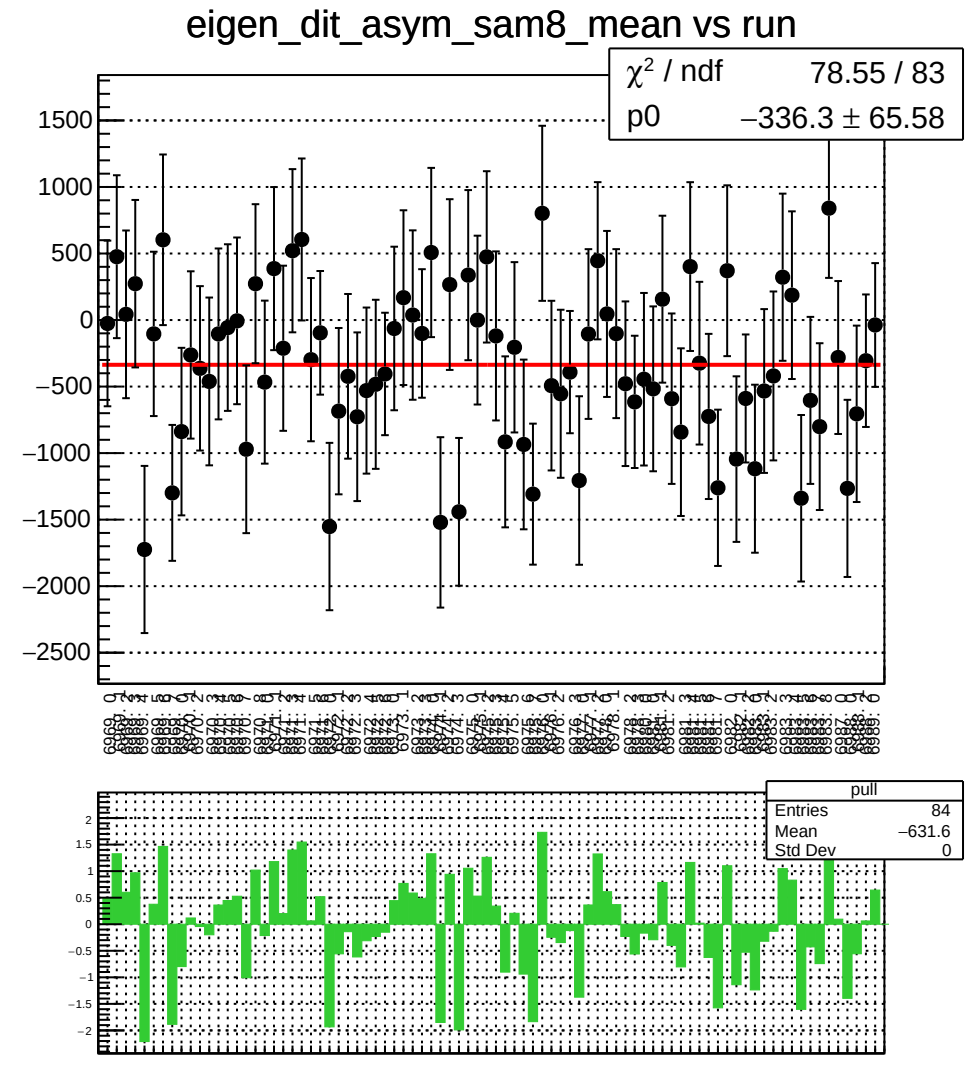

pull1D
Entries 84
Mean 0.003975
Std Dev 0.967

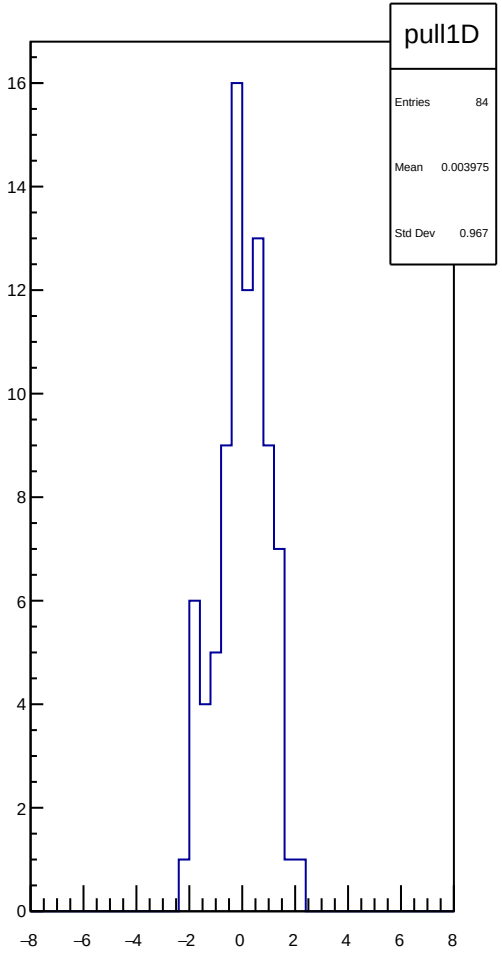

dit_asym_sam8_rms vs run
χ² / ndf 610.9 / 83
p0 59.98 ± 0.04637
64
63
62
61
60
59
58
57

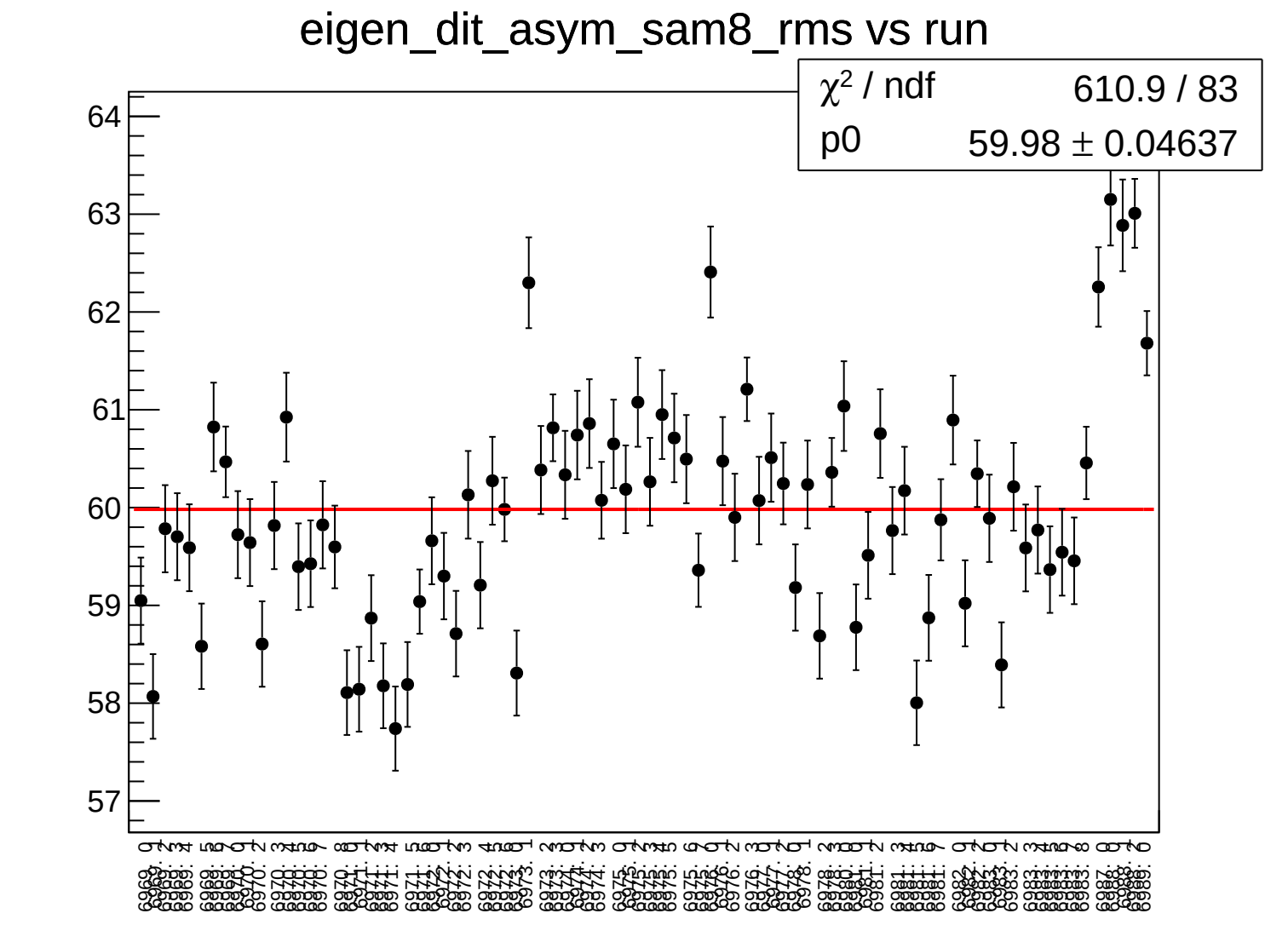

asym_sam8_dit_correction_mean vs run
χ² / ndf 91.52 / 83
p0 177.9 ± 354.2
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −848.1
Std Dev 0
3
2
1
0
−1
−2

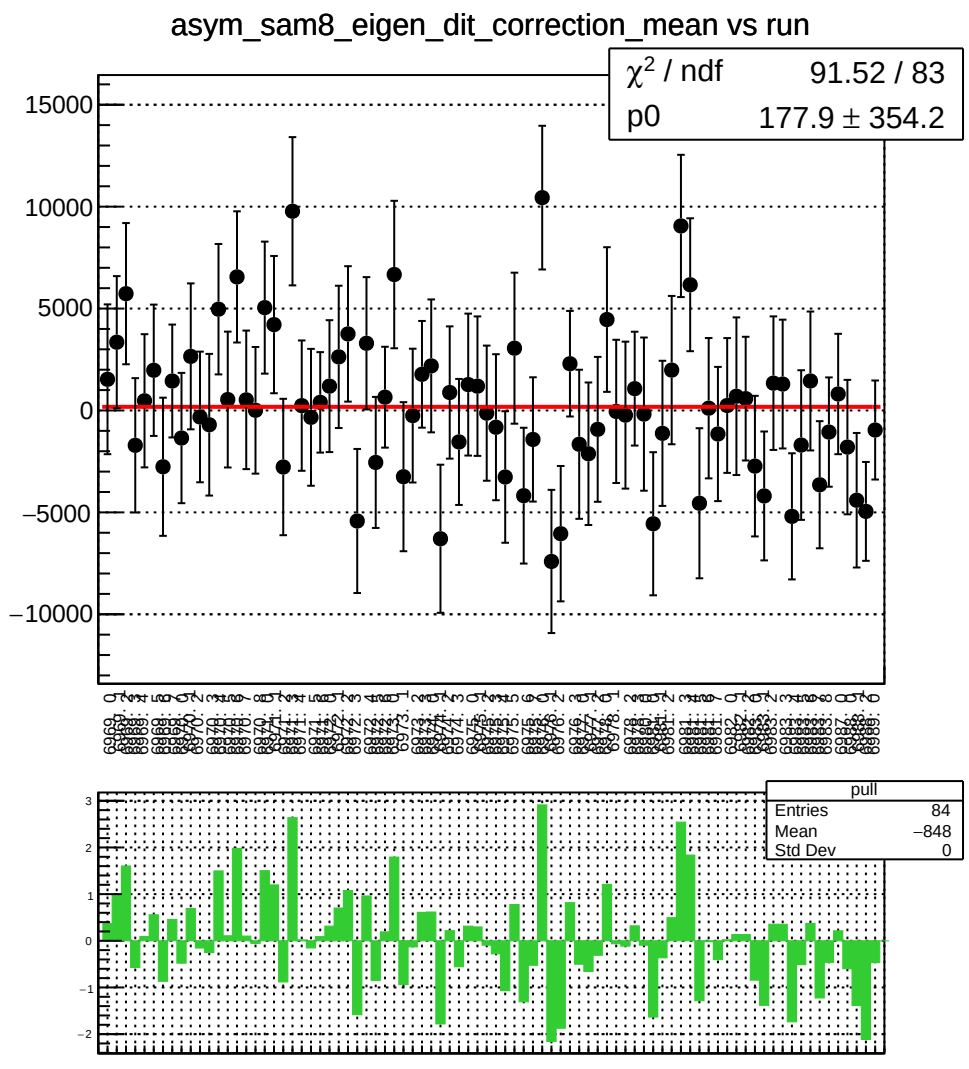

pull1D
Entries 84
Mean 0.008579
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

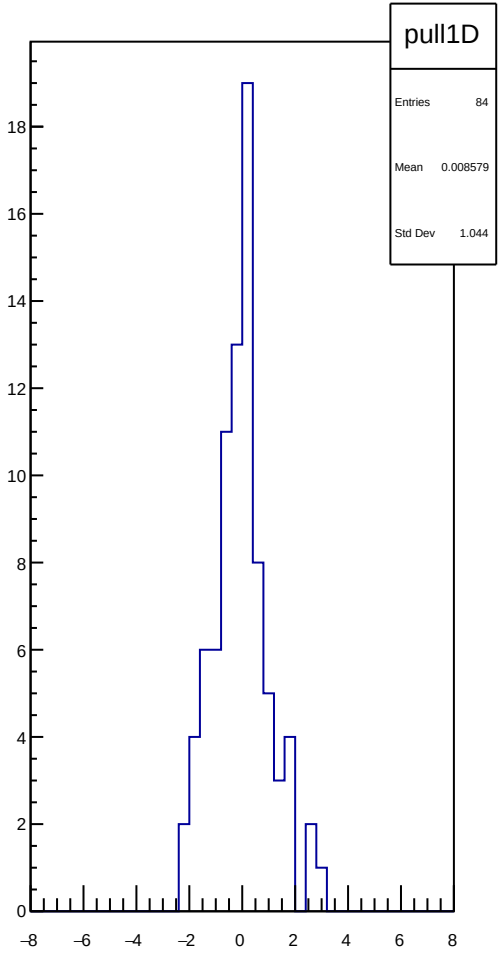

asym_sam8_dit_correction_rms vs run
χ² / ndf 4760 / 83
p0 323.5 ± 0.2504
380
360
340
320
300

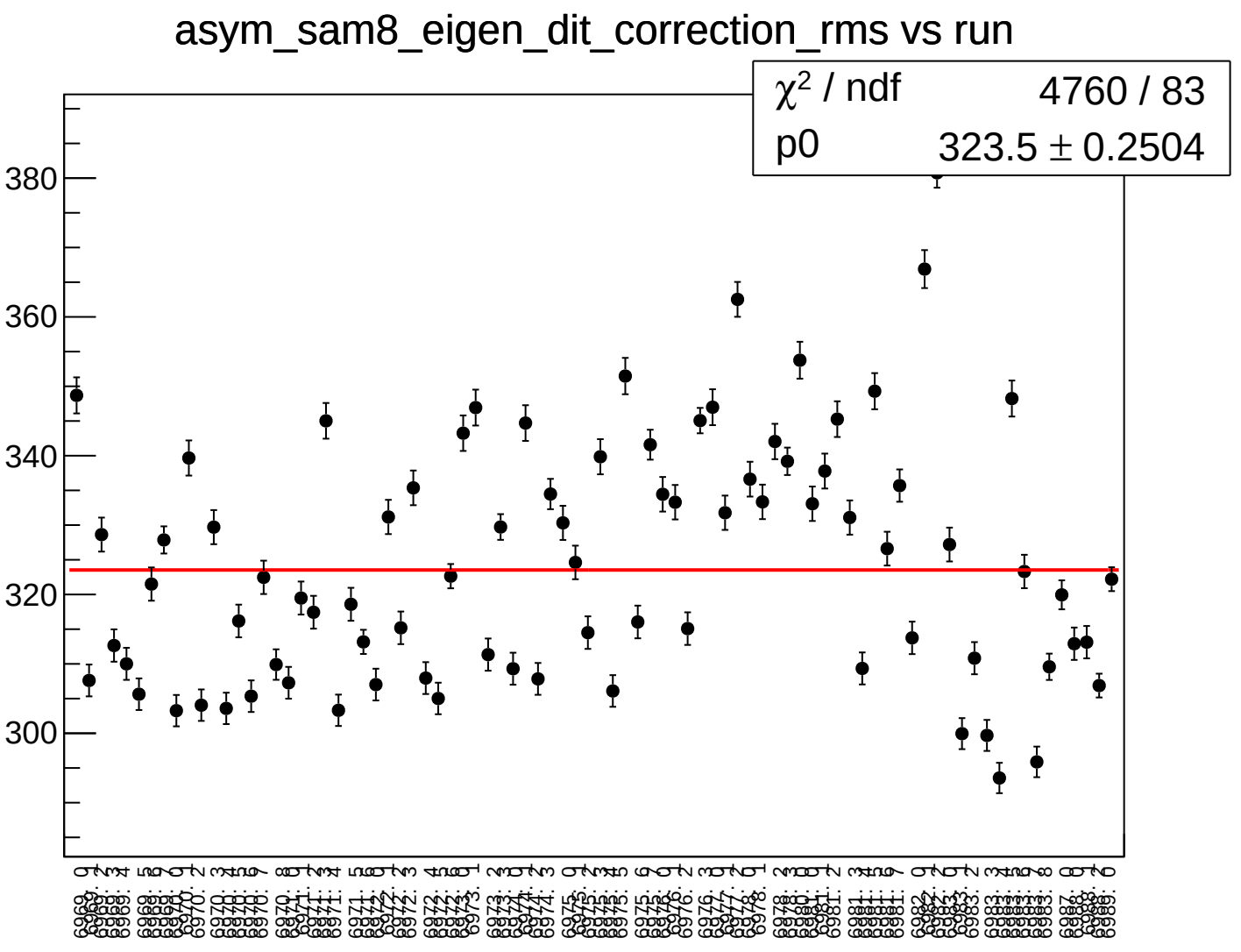

eigen_dit_asym_sam8_mean vs run
χ² / ndf 78.55 / 83
p0 −336.3 ± 65.58
pull
Entries 84
Mean −631.6
Std Dev 0

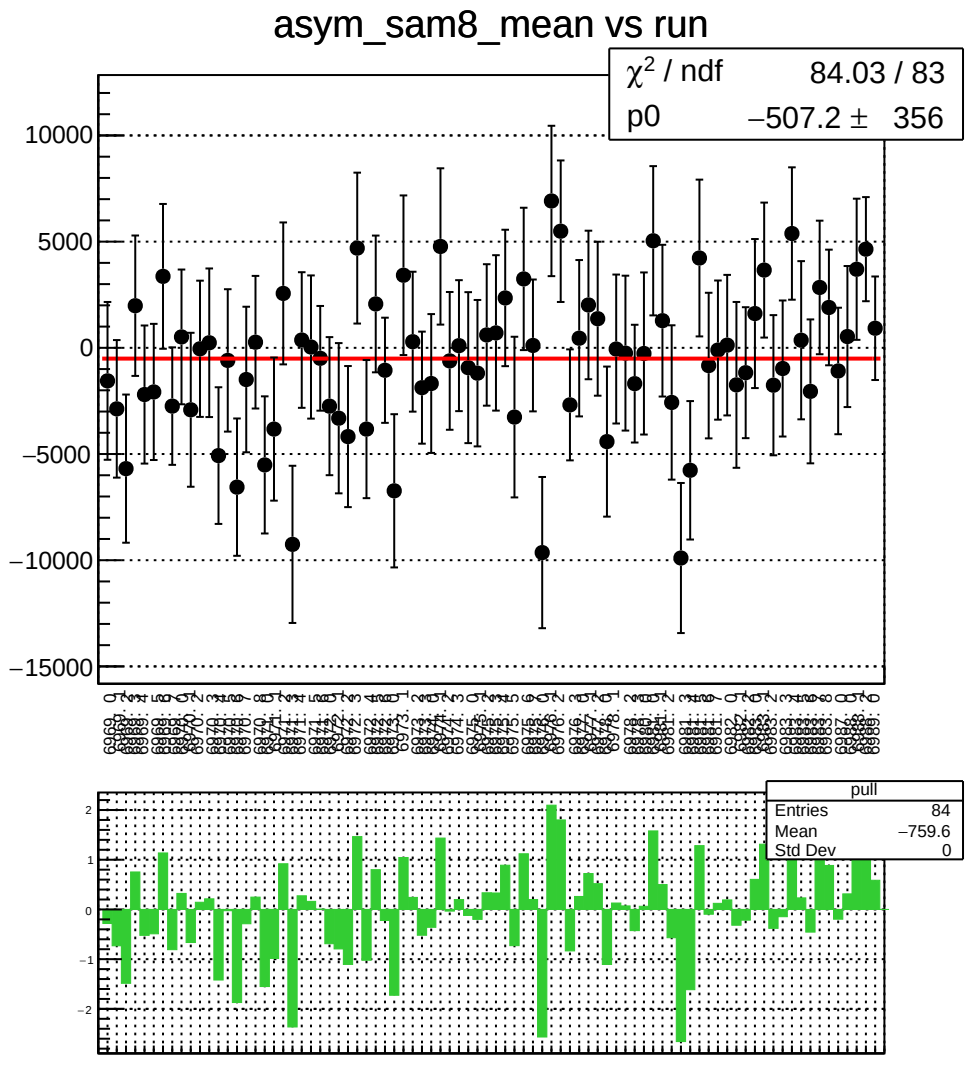

pull1D
Entries 84
Mean 0.003975
Std Dev 0.967

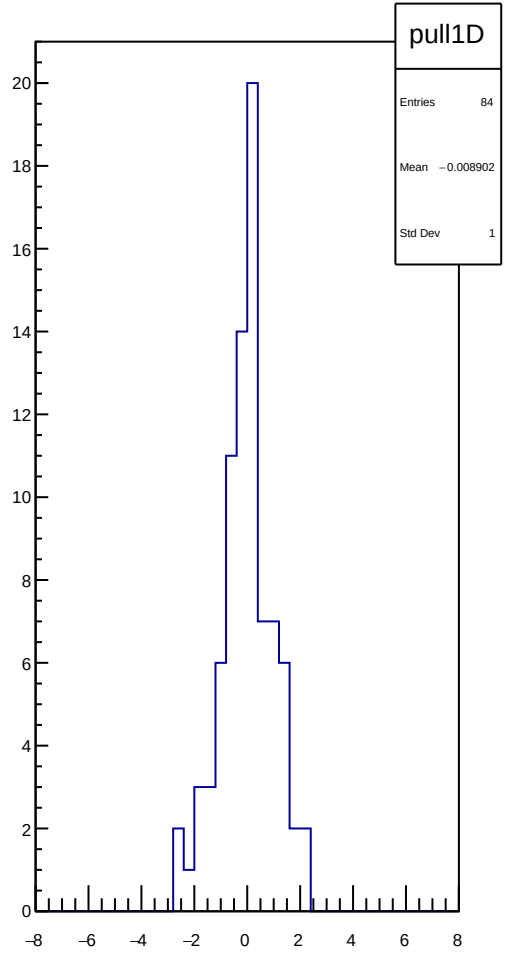

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 610.9 / 83
p0 59.98 ± 0.04637
64
63
62
61
60
59
58
57

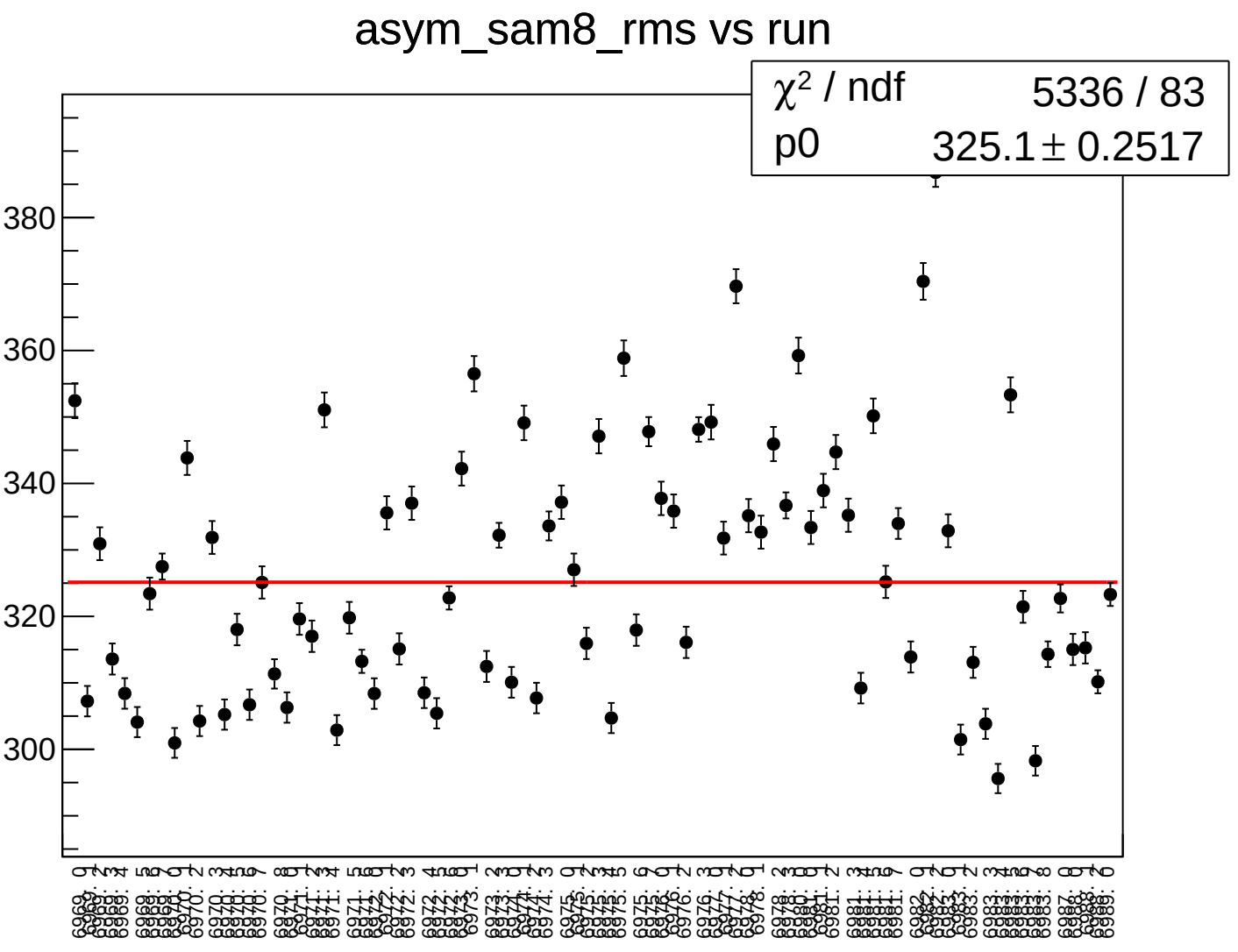

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 91.52 / 83
p0 177.9 ± 354.2
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −848
Std Dev 0
3
2
1
0
−1
−2

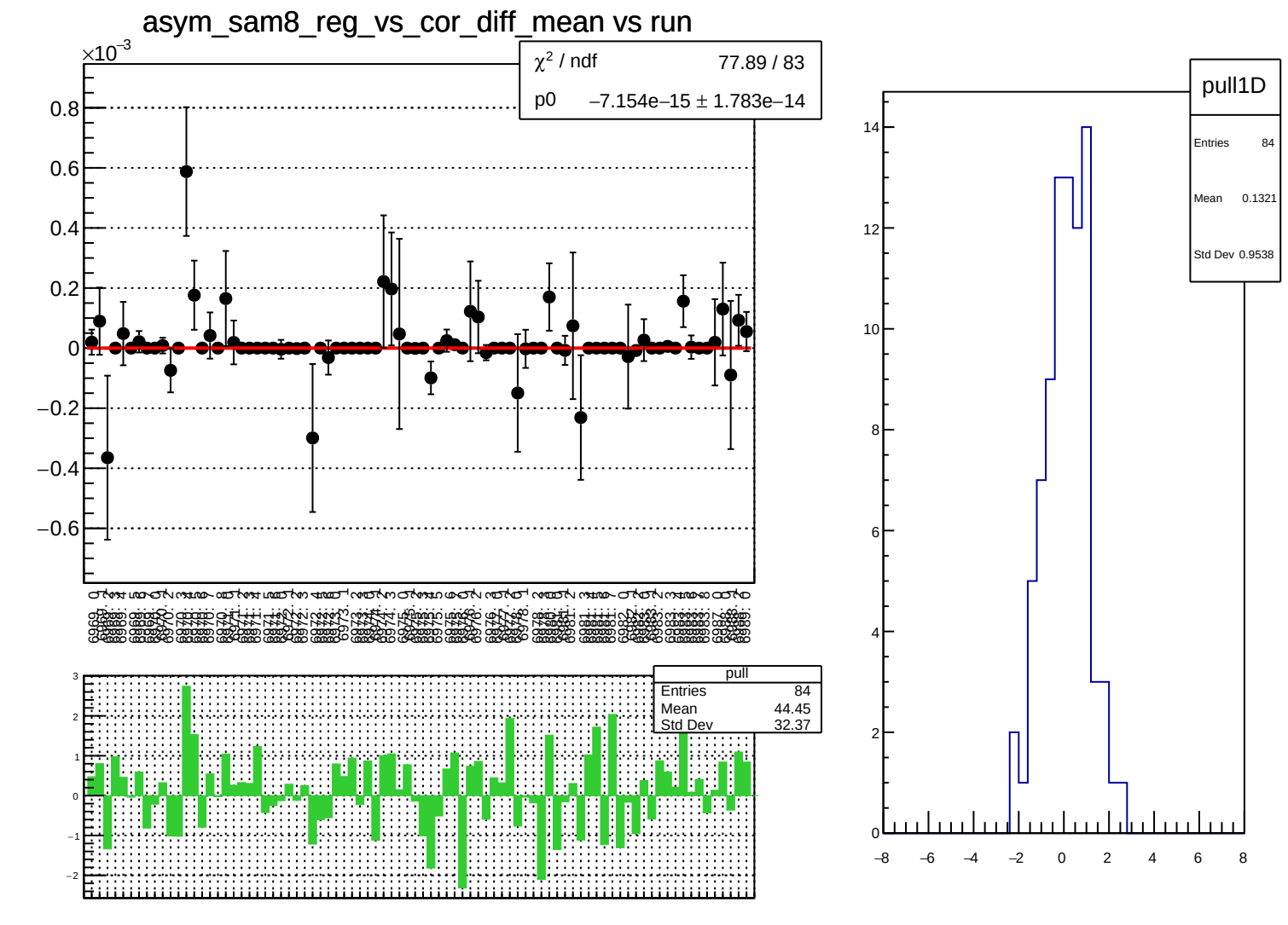

pull1D
Entries 84
Mean 0.008579
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

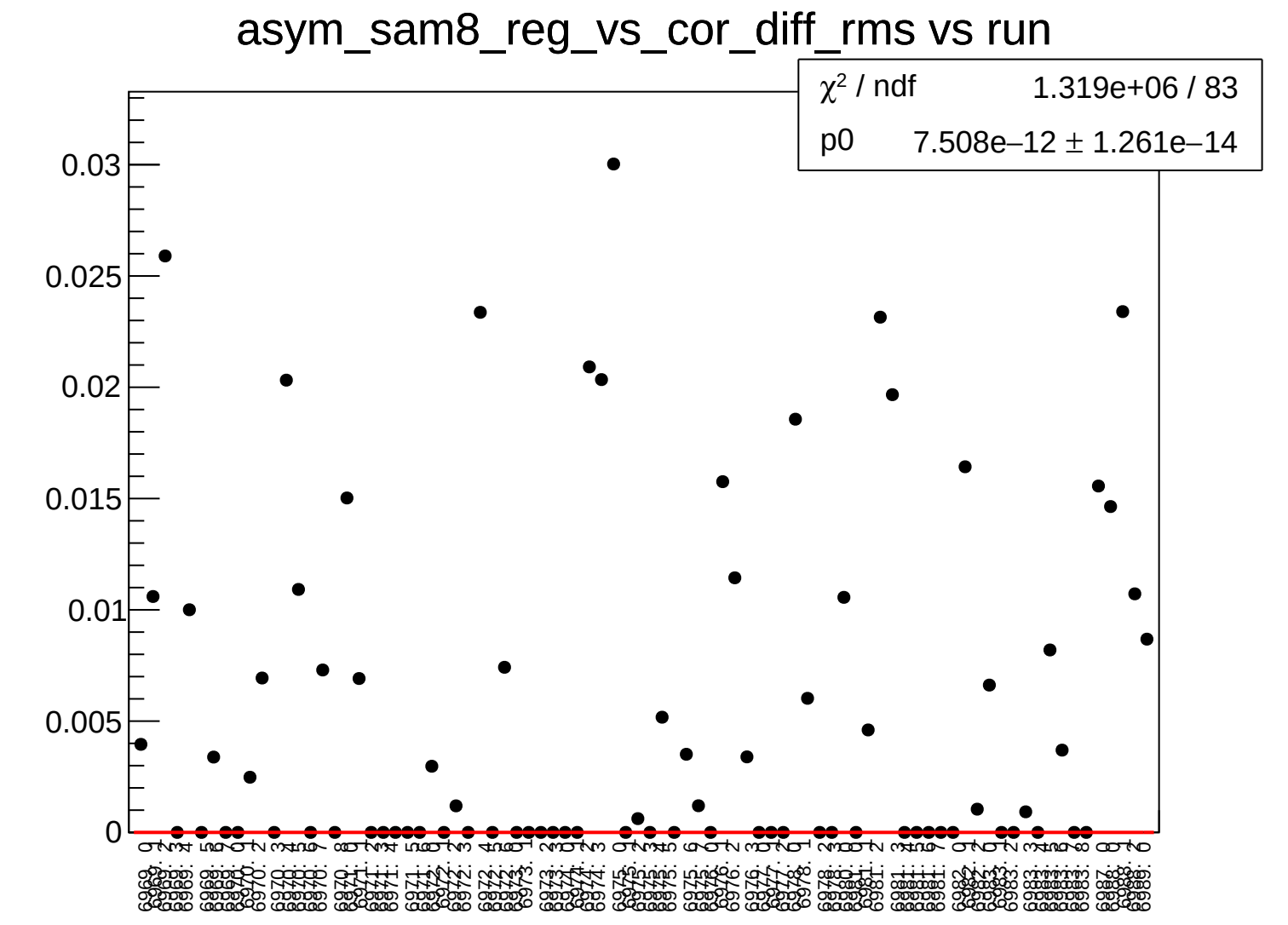

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 4760 / 83
p0 323.5 ± 0.2504
380
360
340
320
300

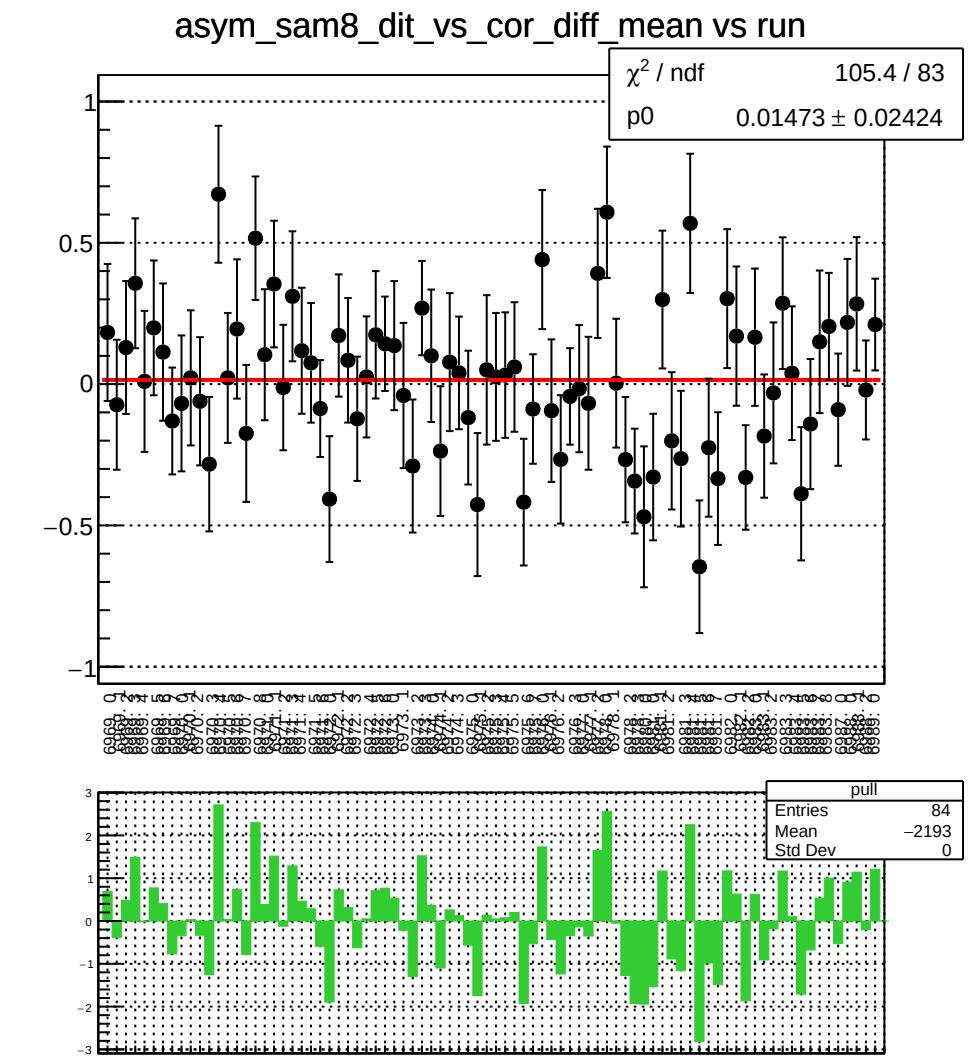

asym_sam8_mean vs run
χ² / ndf 84.03 / 83
p0 −507.2 ± 356
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −759.6
Std Dev 0
2
1
0
−1
−2

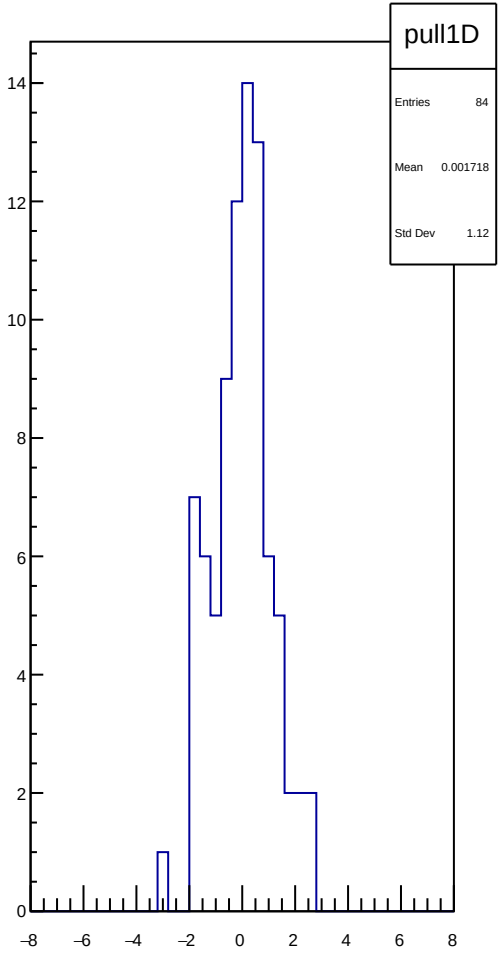

pull1D
Entries 84
Mean −0.008902
Std Dev 1
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

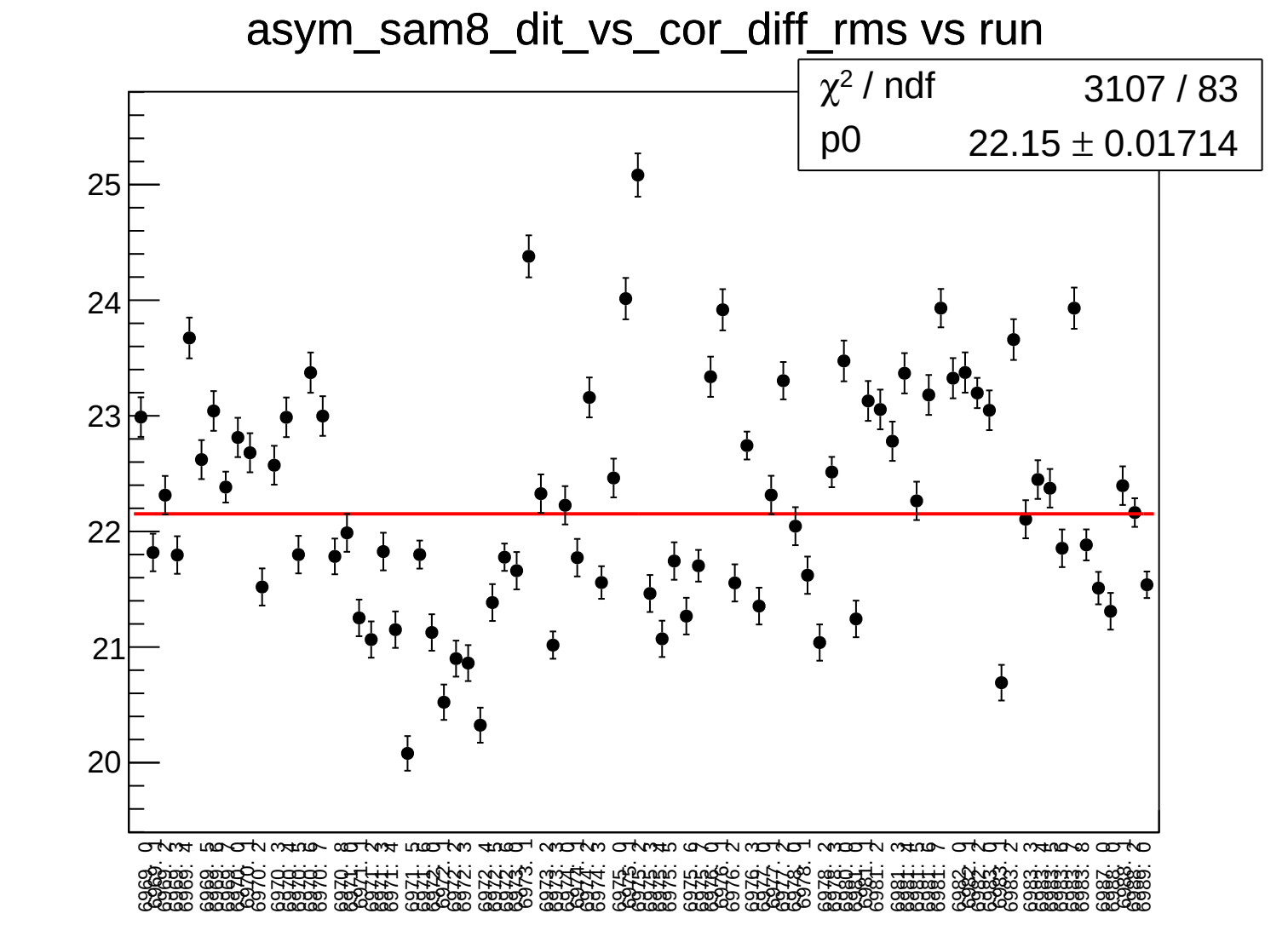

asym_sam8_rms vs run
χ² / ndf 5336 / 83
p0 325.1 ± 0.2517
380
360
340
320
300

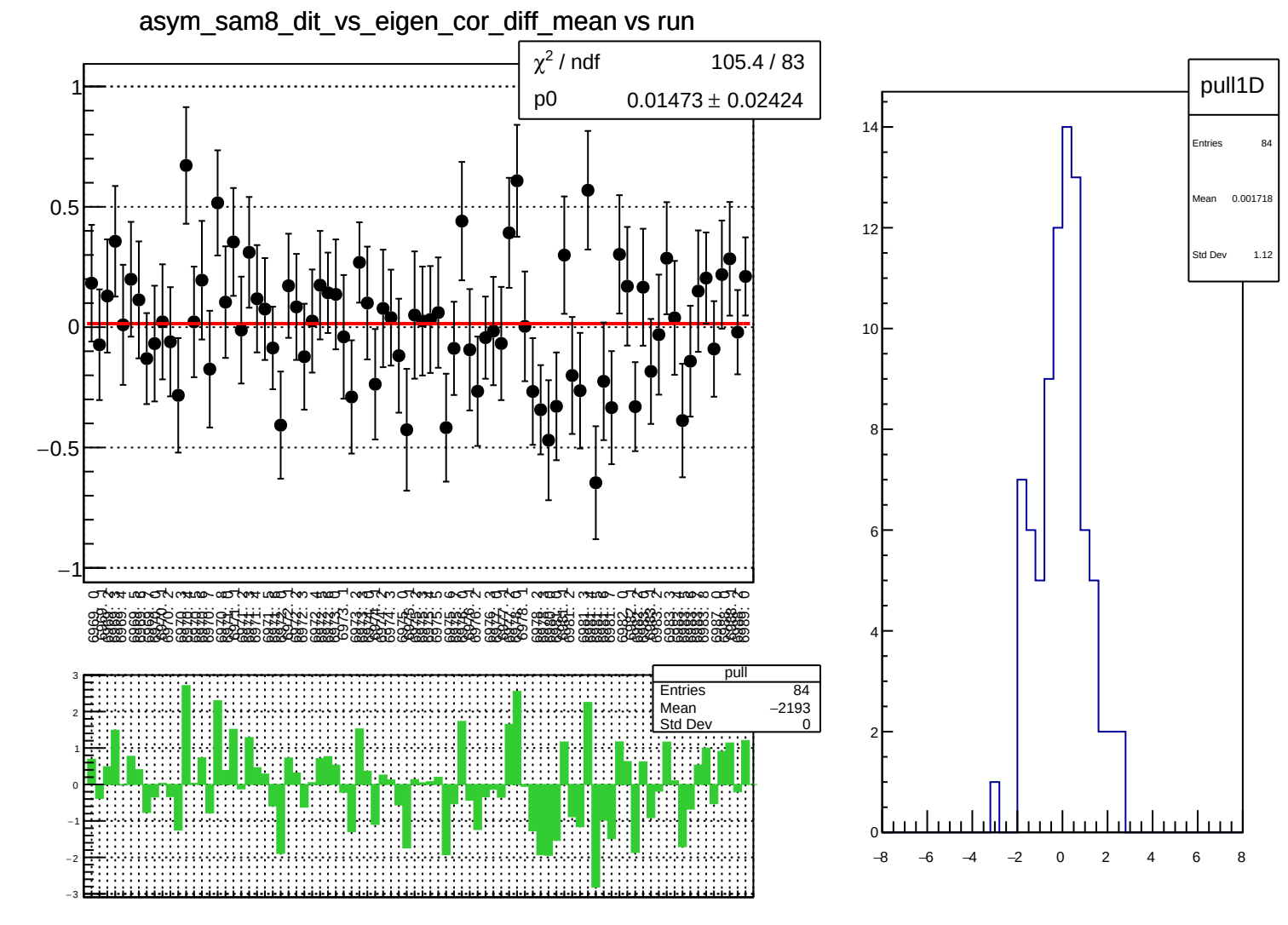

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 77.89 / 83
p0 −7.154e−15 ± 1.783e−14
pull
Entries 84
Mean 44.45
Std Dev 32.37
pull1D
Entries 84
Mean 0.1321
Std Dev 0.9538

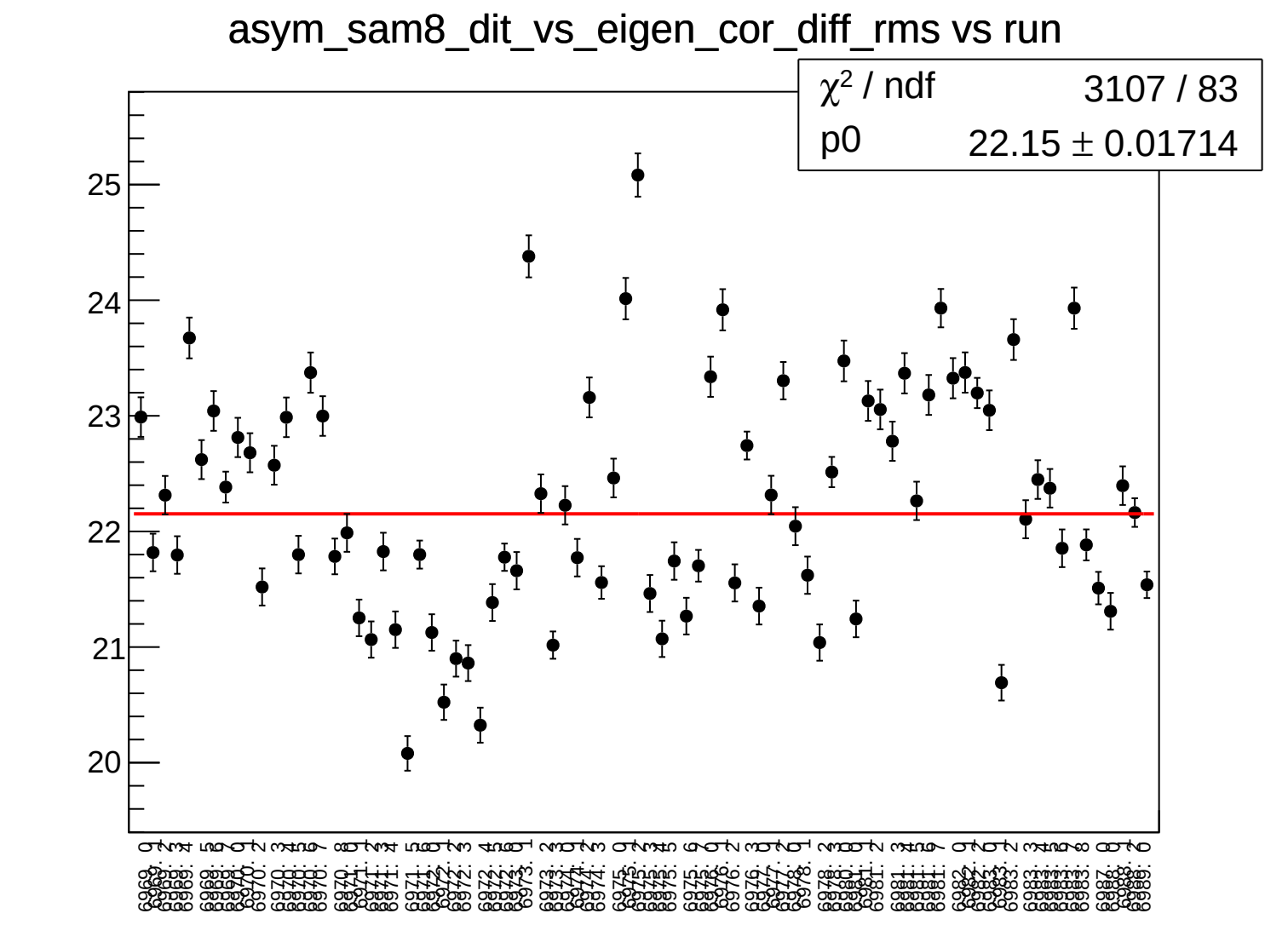

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.319e+06 / 83
p0 7.508e−12 ± 1.261e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

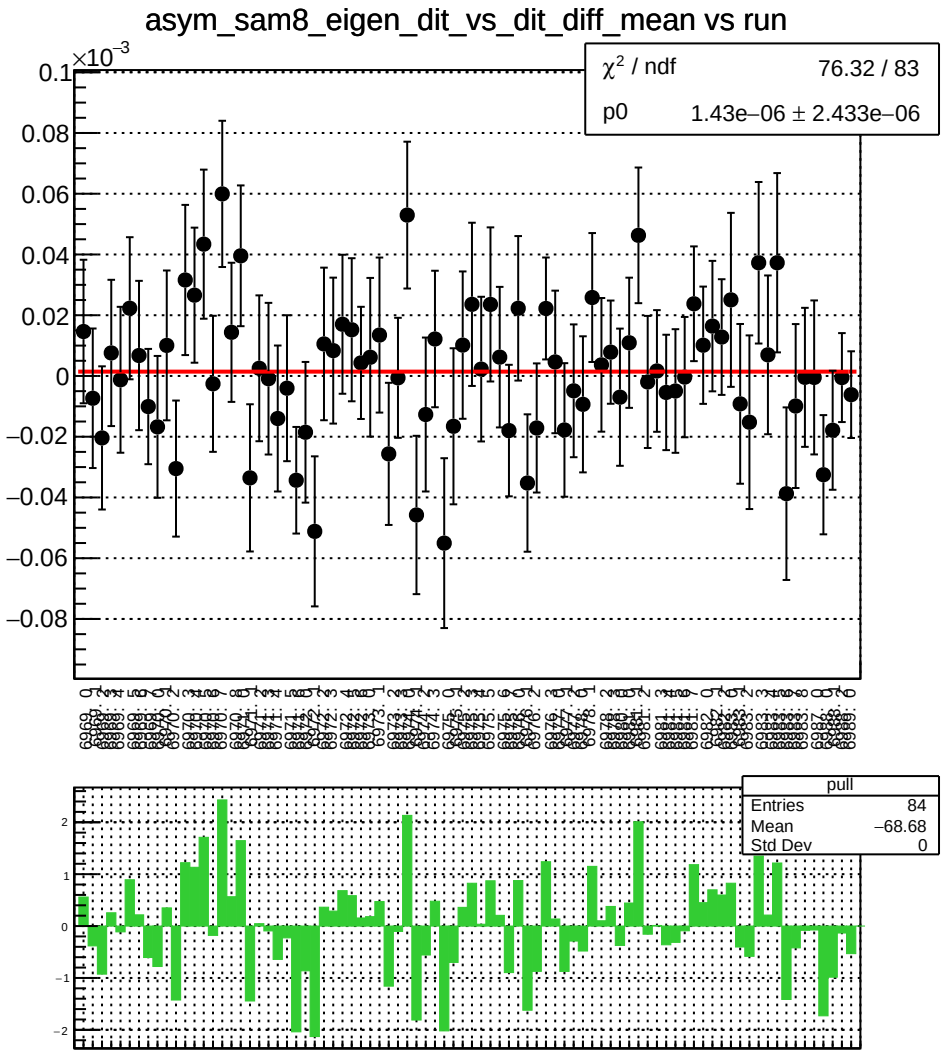

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 105.4 / 83
p0 0.01473 ± 0.02424
pull
Entries 84
Mean −2193
Std Dev 0

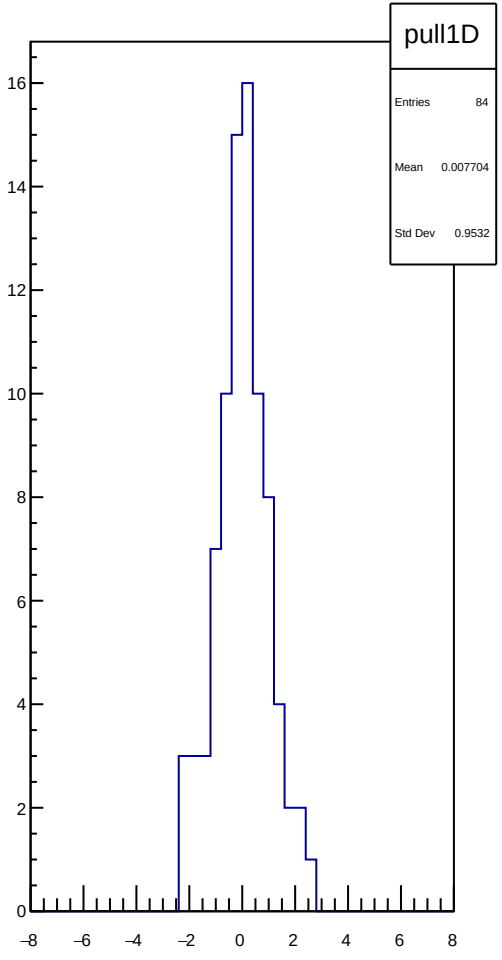

pull1D
Entries 84
Mean 0.001718
Std Dev 1.12

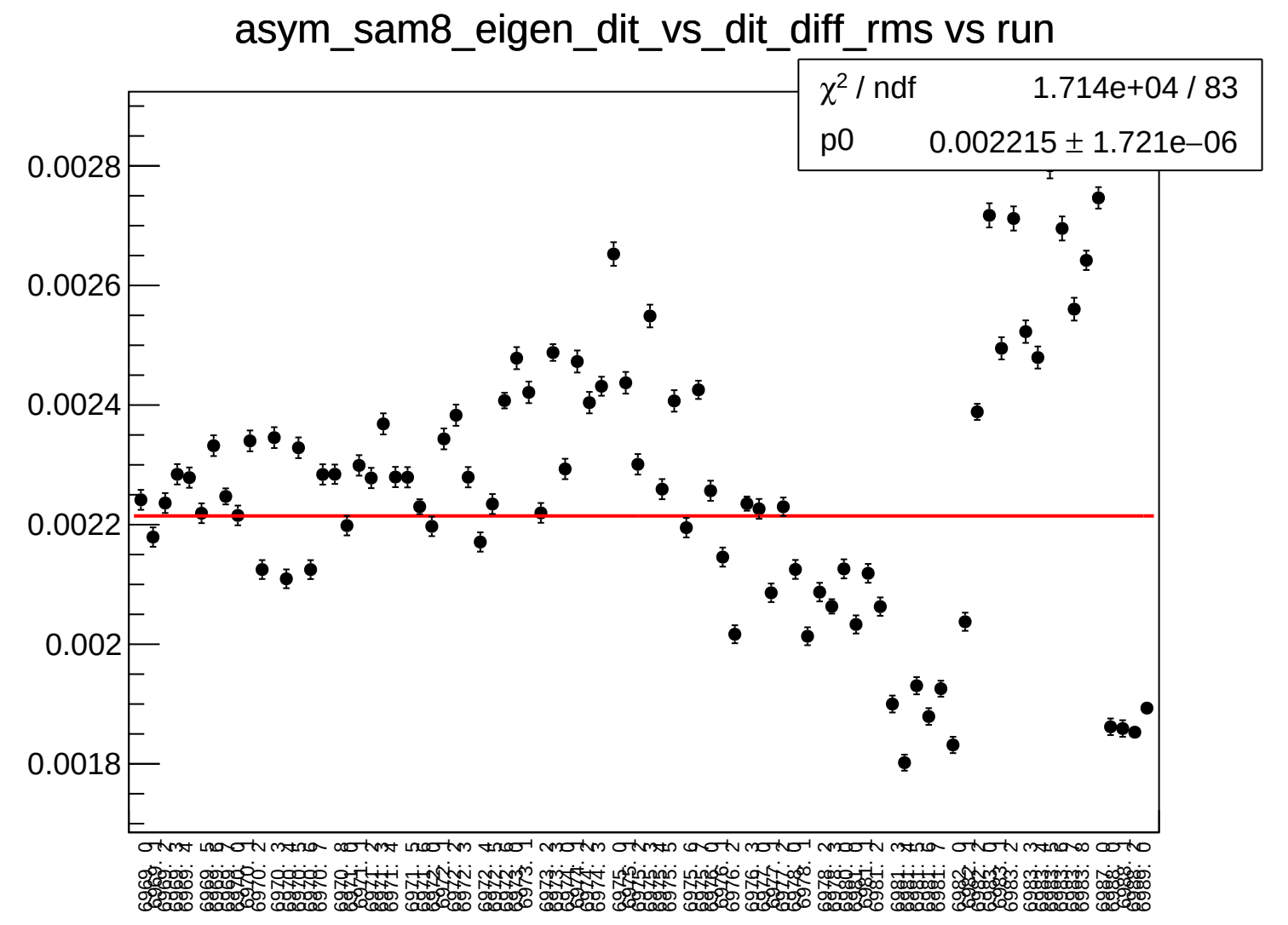

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 3107 / 83
p0 22.15 ± 0.01714
25
24
23
22
21
20

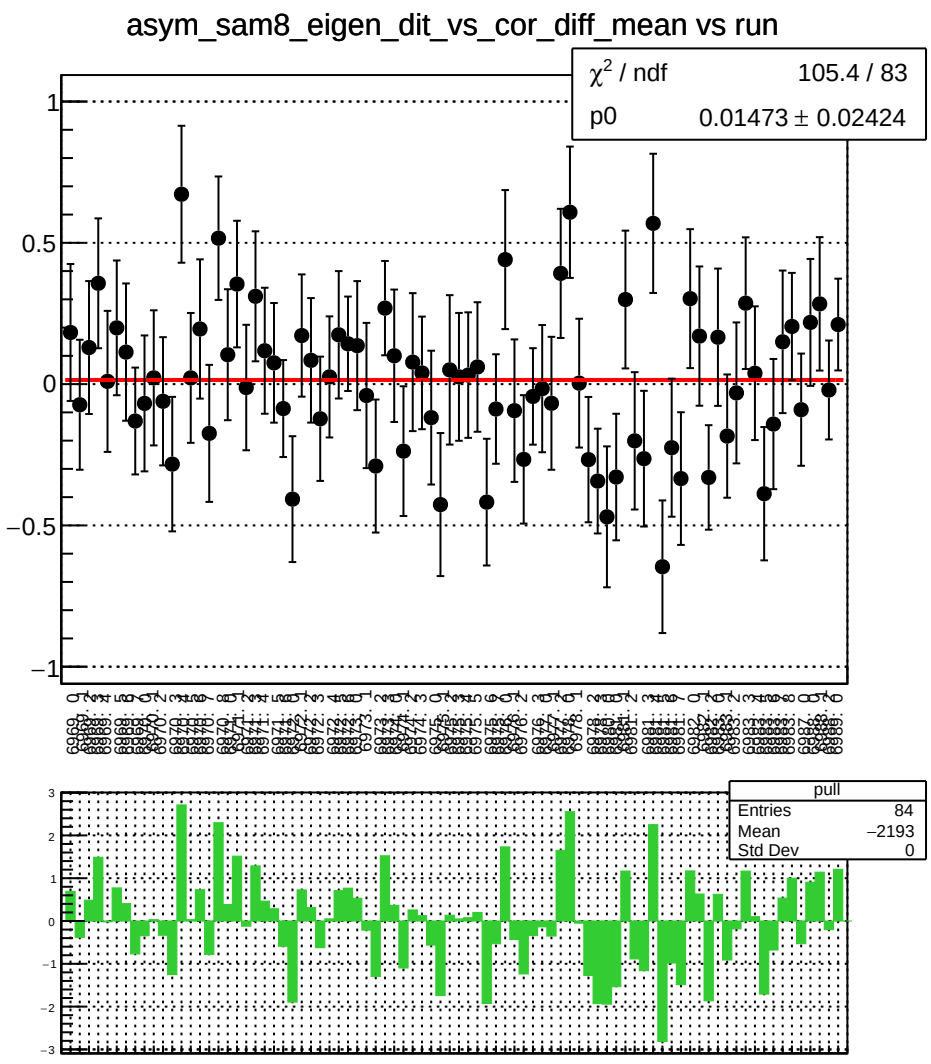

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.4 / 83
p0 0.01473 ± 0.02424
pull
Entries 84
Mean −2193
Std Dev 0
pull1D
Entries 84
Mean 0.001718
Std Dev 1.12

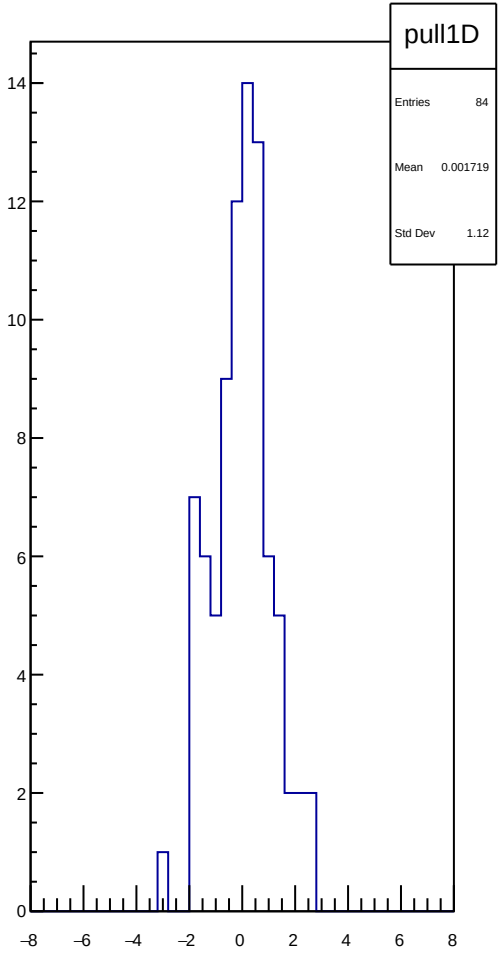

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3107 / 83
p0 22.15 ± 0.01714
25
24
23
22
21
20

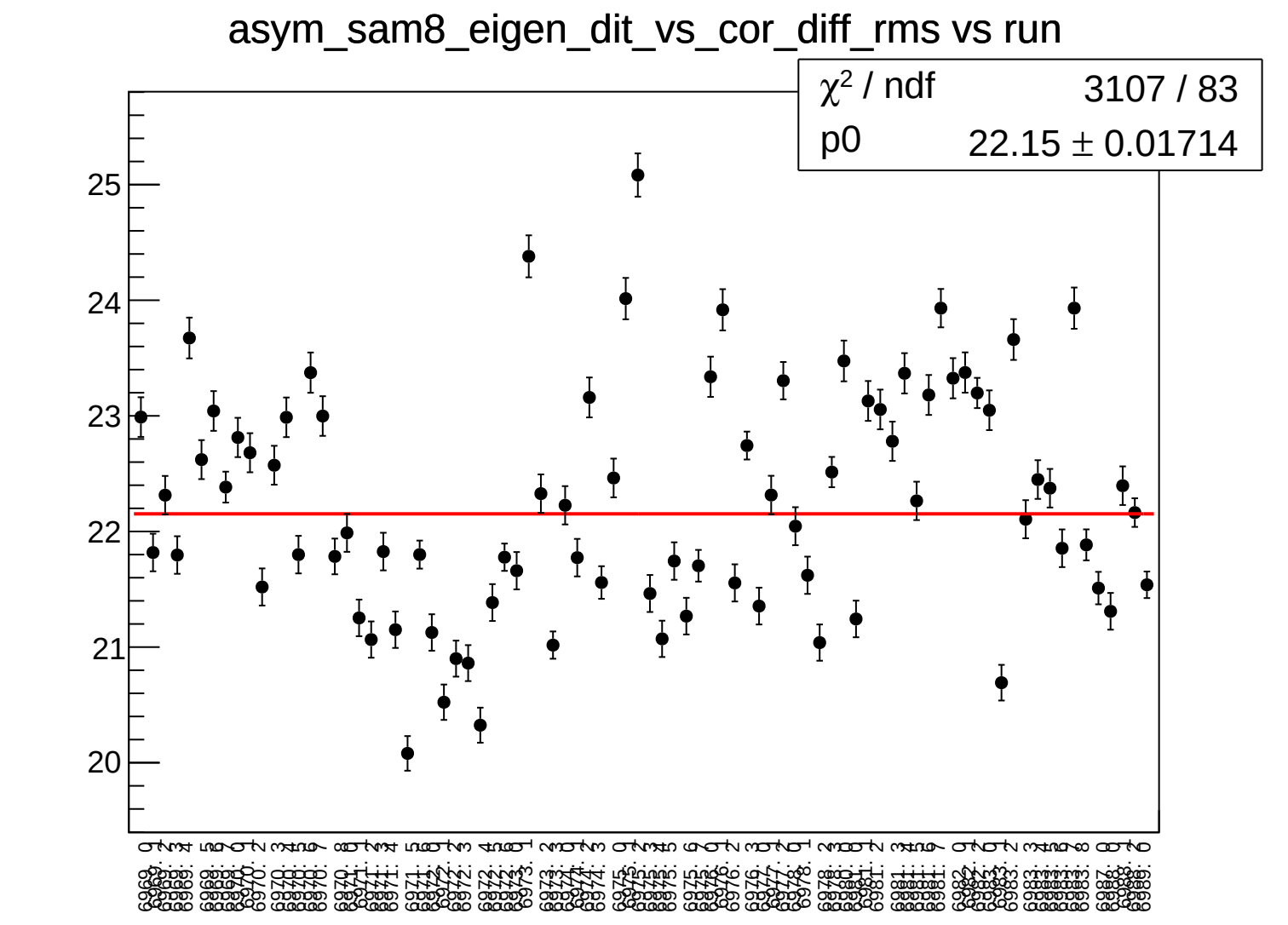

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.32 / 83
p0 1.43e−06 ± 2.433e−06
pull
Entries 84
Mean −68.68
Std Dev 0

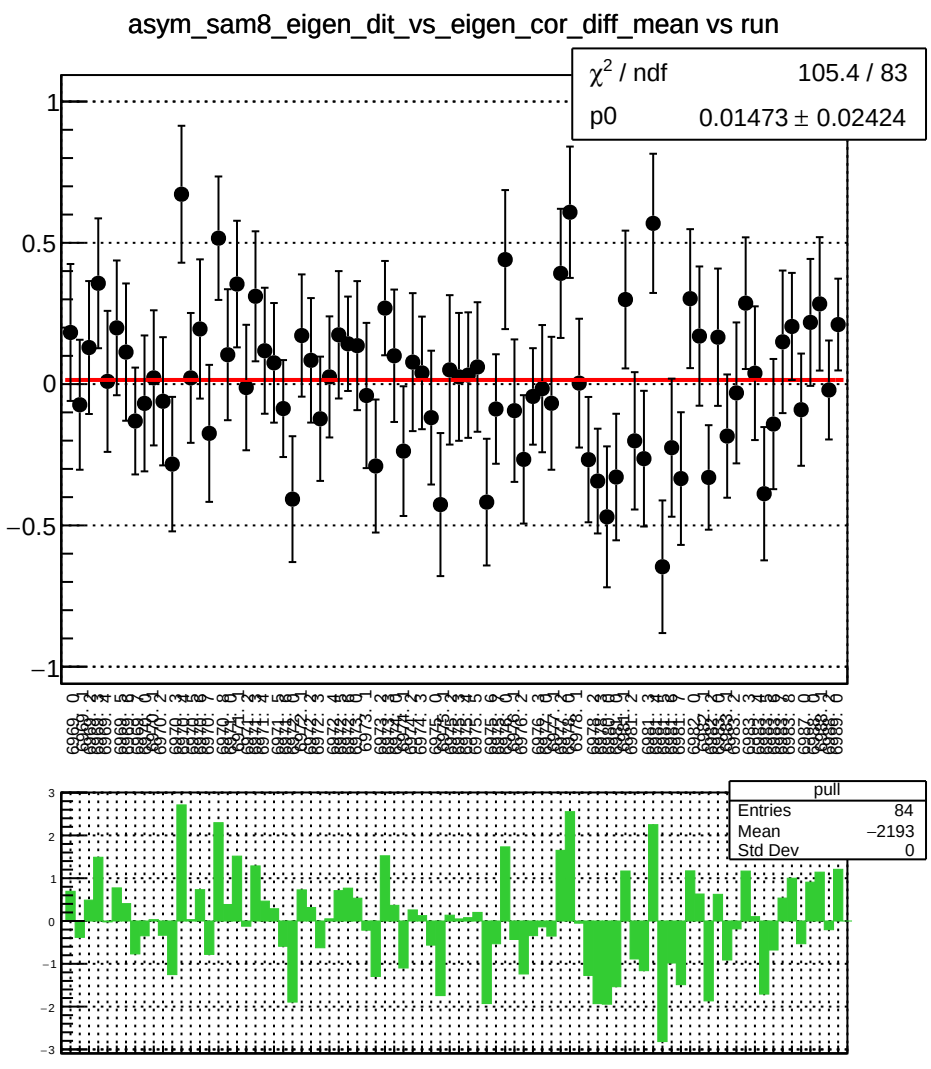

pull1D
Entries 84
Mean 0.007704
Std Dev 0.9532

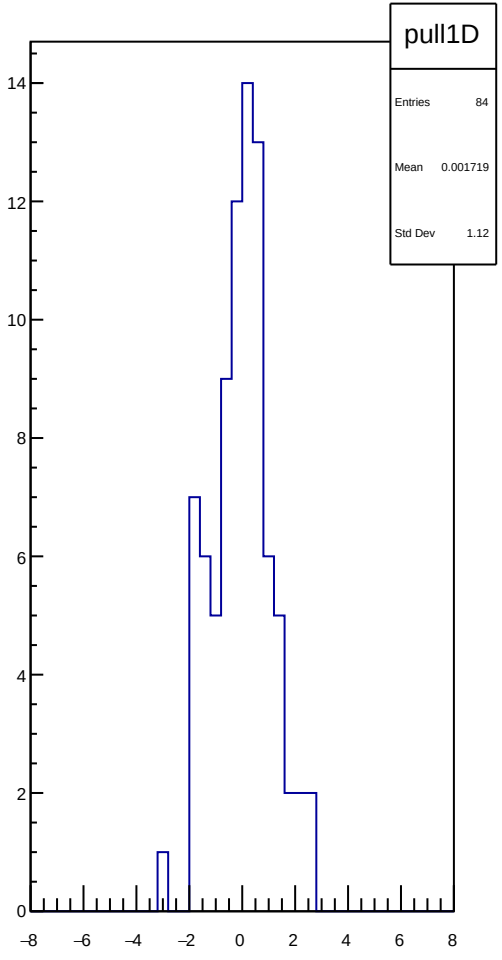

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.714e+04 / 83
p0 0.002215 ± 1.721e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

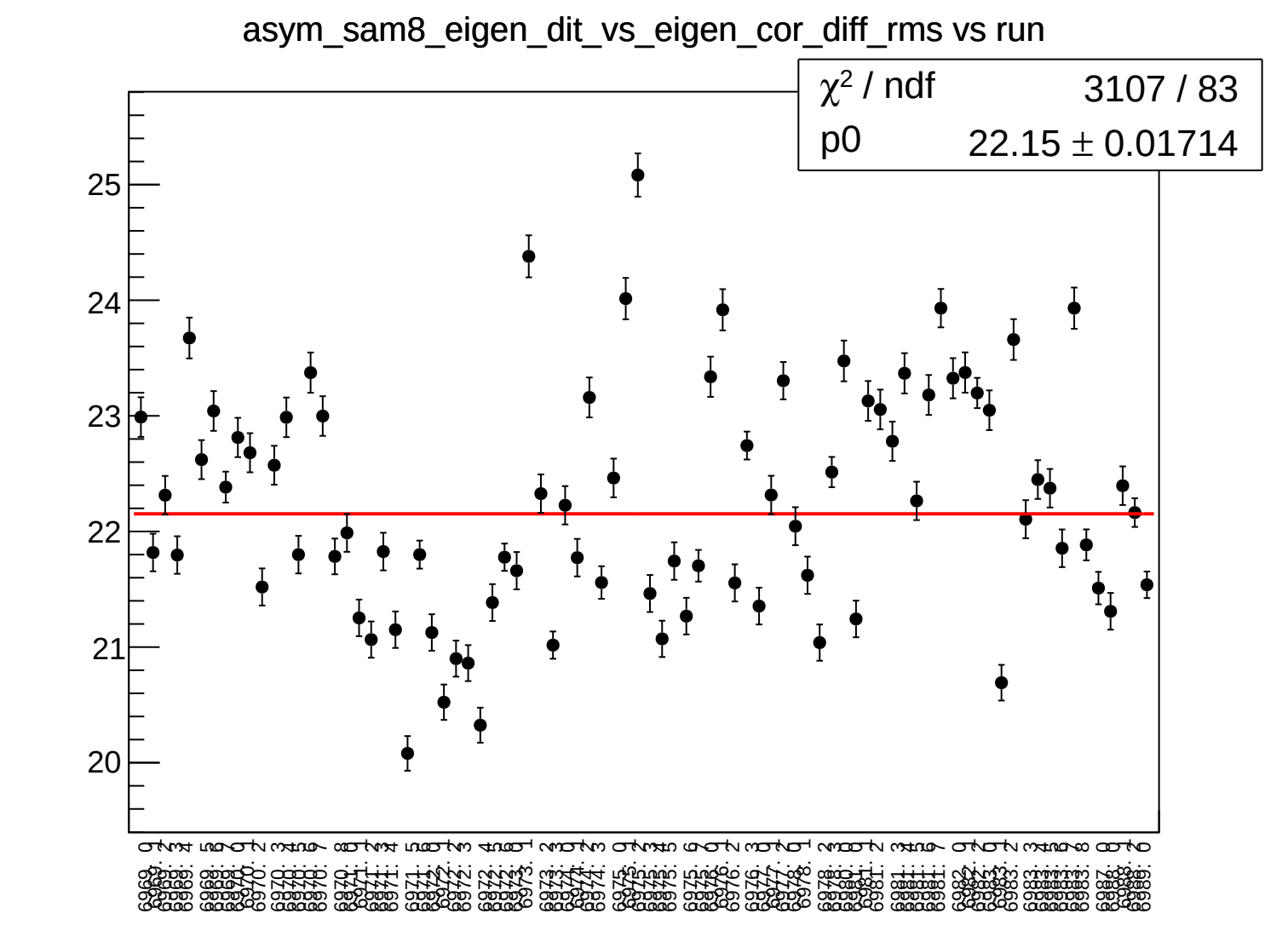

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.4 / 83
p0 0.01473 ± 0.02424
pull
Entries 84
Mean −2193
Std Dev 0

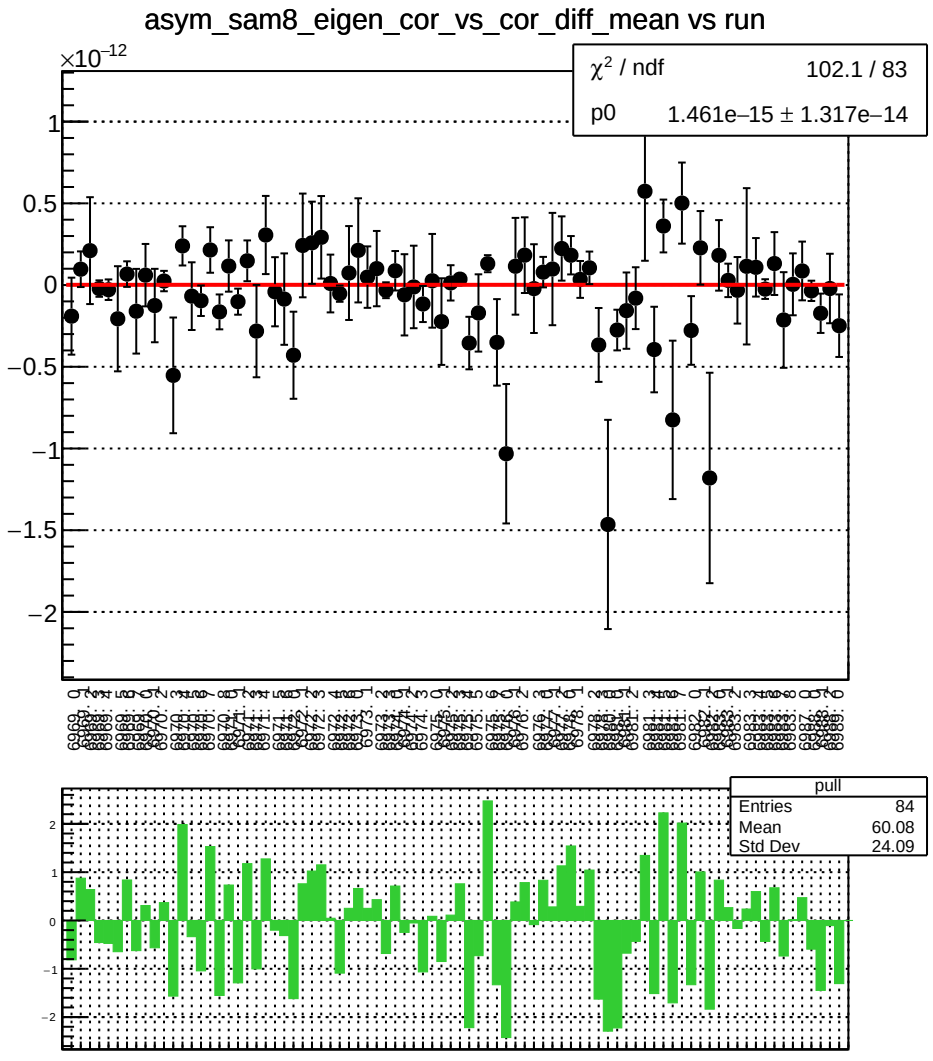

pull1D
Entries 84
Mean 0.001719
Std Dev 1.12

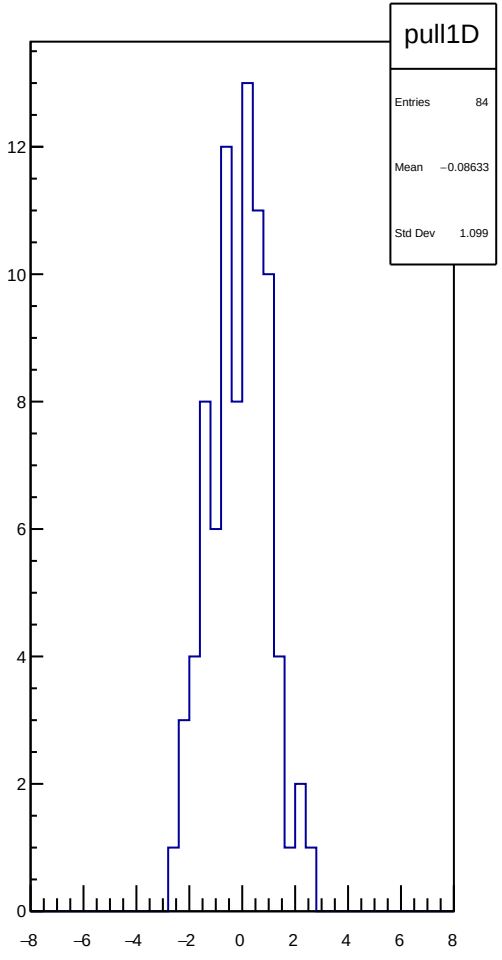

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3107 / 83
p0 22.15 ± 0.01714
25
24
23
22
21
20

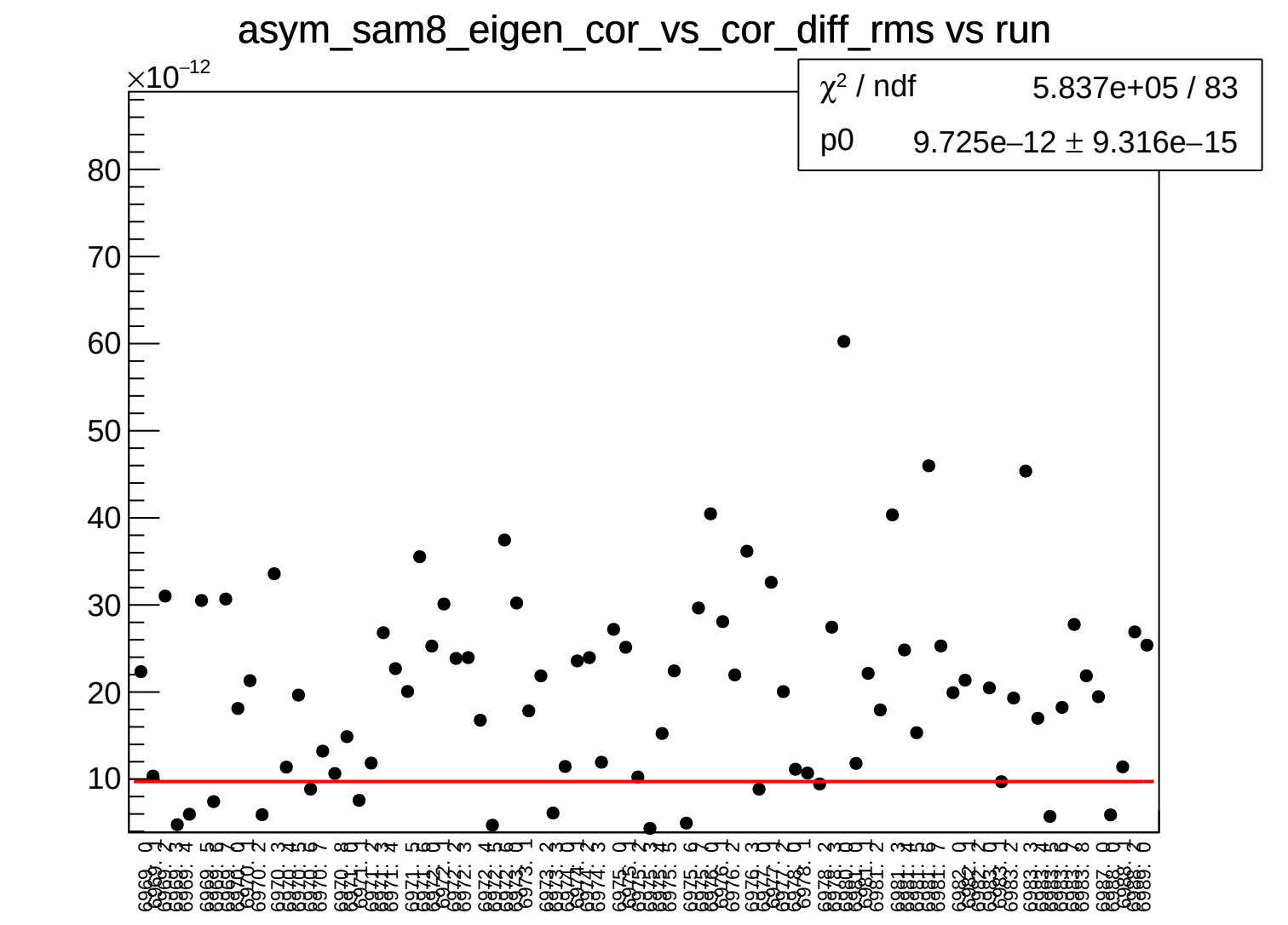

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.4 / 83
p0 0.01473 ± 0.02424
pull
Entries 84
Mean −2193
Std Dev 0

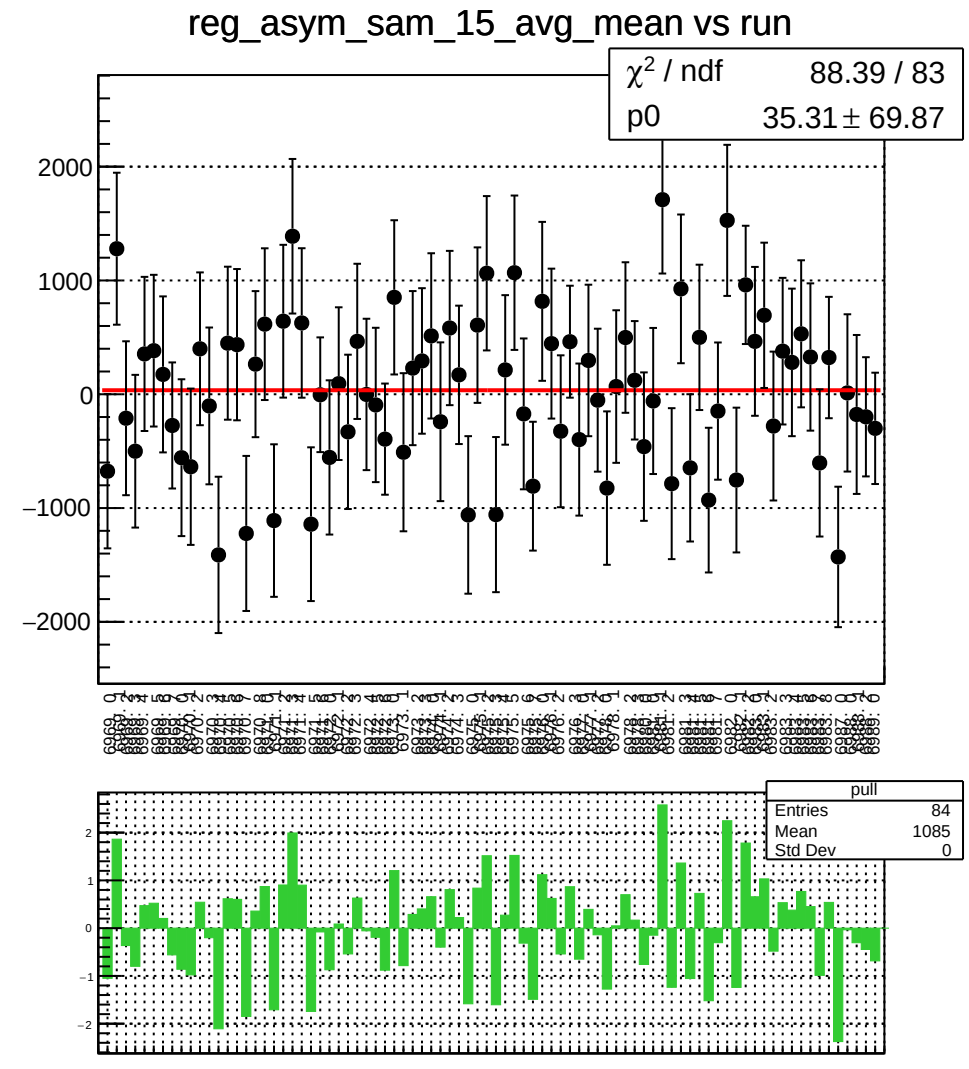

pull1D
Entries 84
Mean 0.001719
Std Dev 1.12

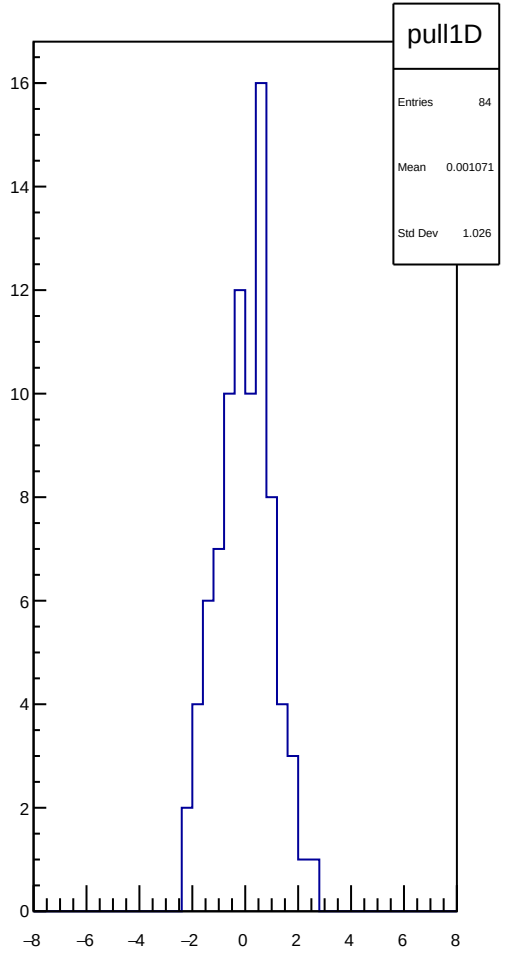

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3107 / 83
p0 22.15 ± 0.01714
25
24
23
22
21
20

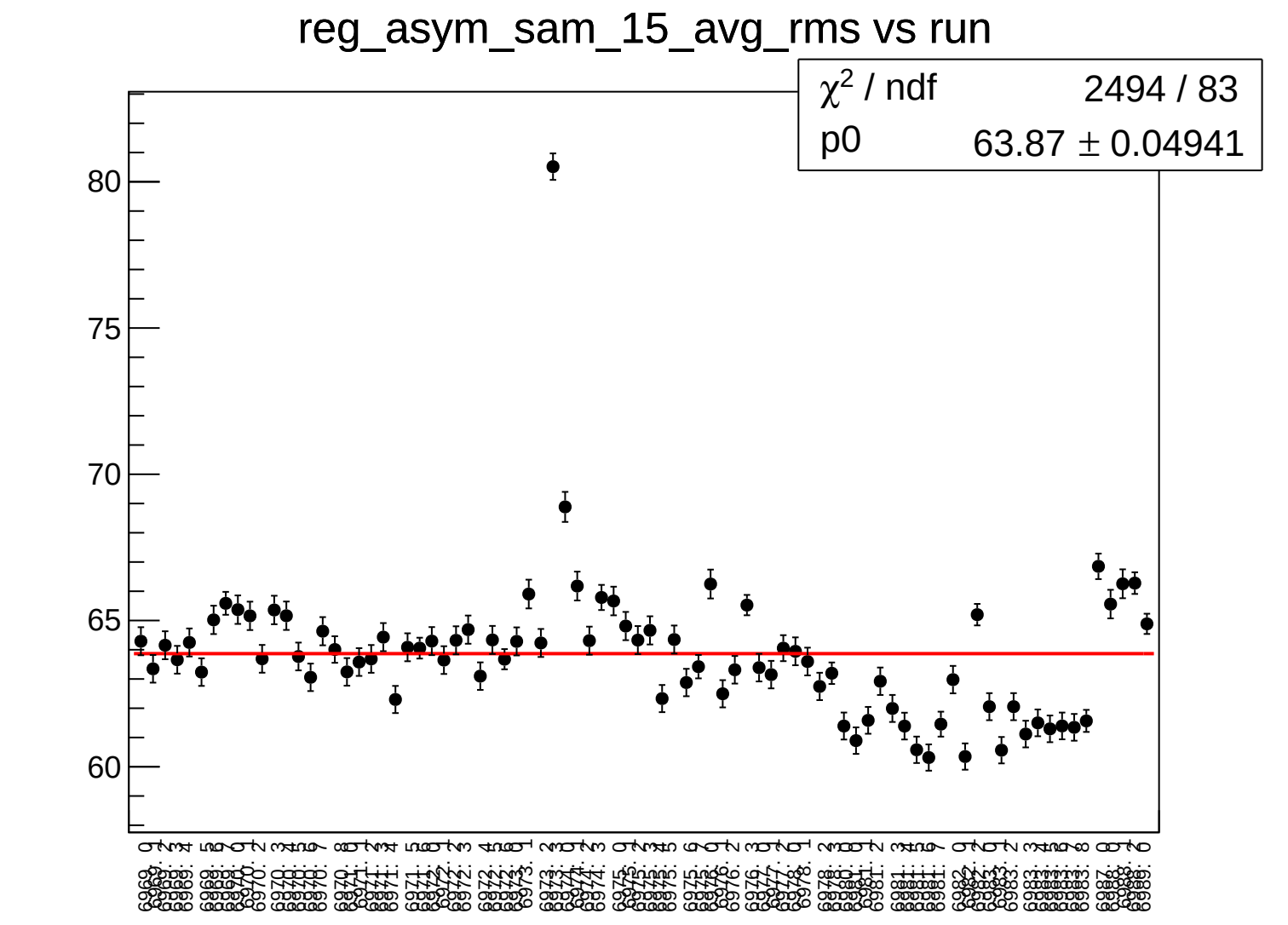

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.1 / 83
p0 1.461e−15 ± 1.317e−14
pull
Entries 84
Mean 60.08
Std Dev 24.09

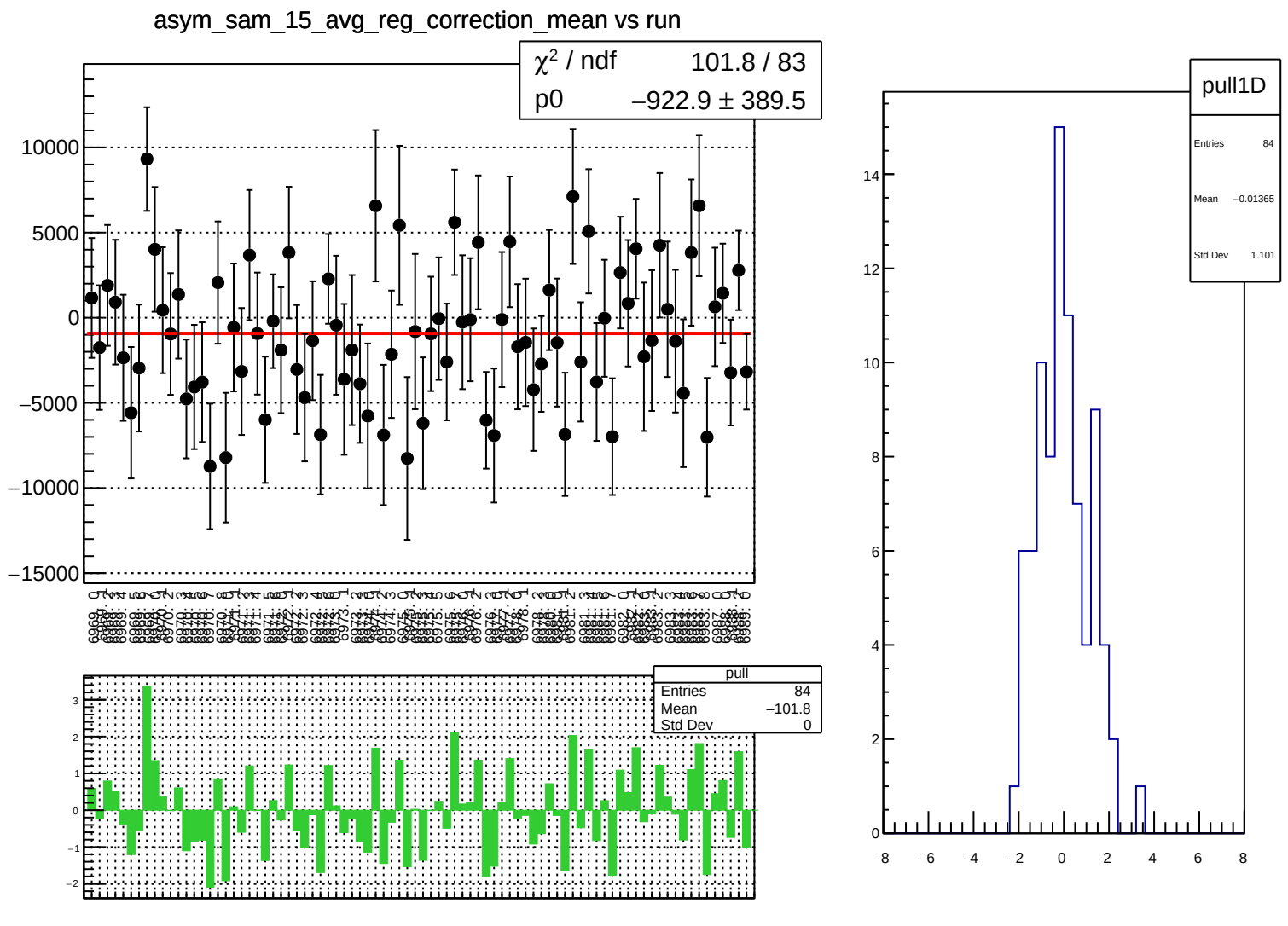

pull1D
Entries 84
Mean −0.08633
Std Dev 1.099

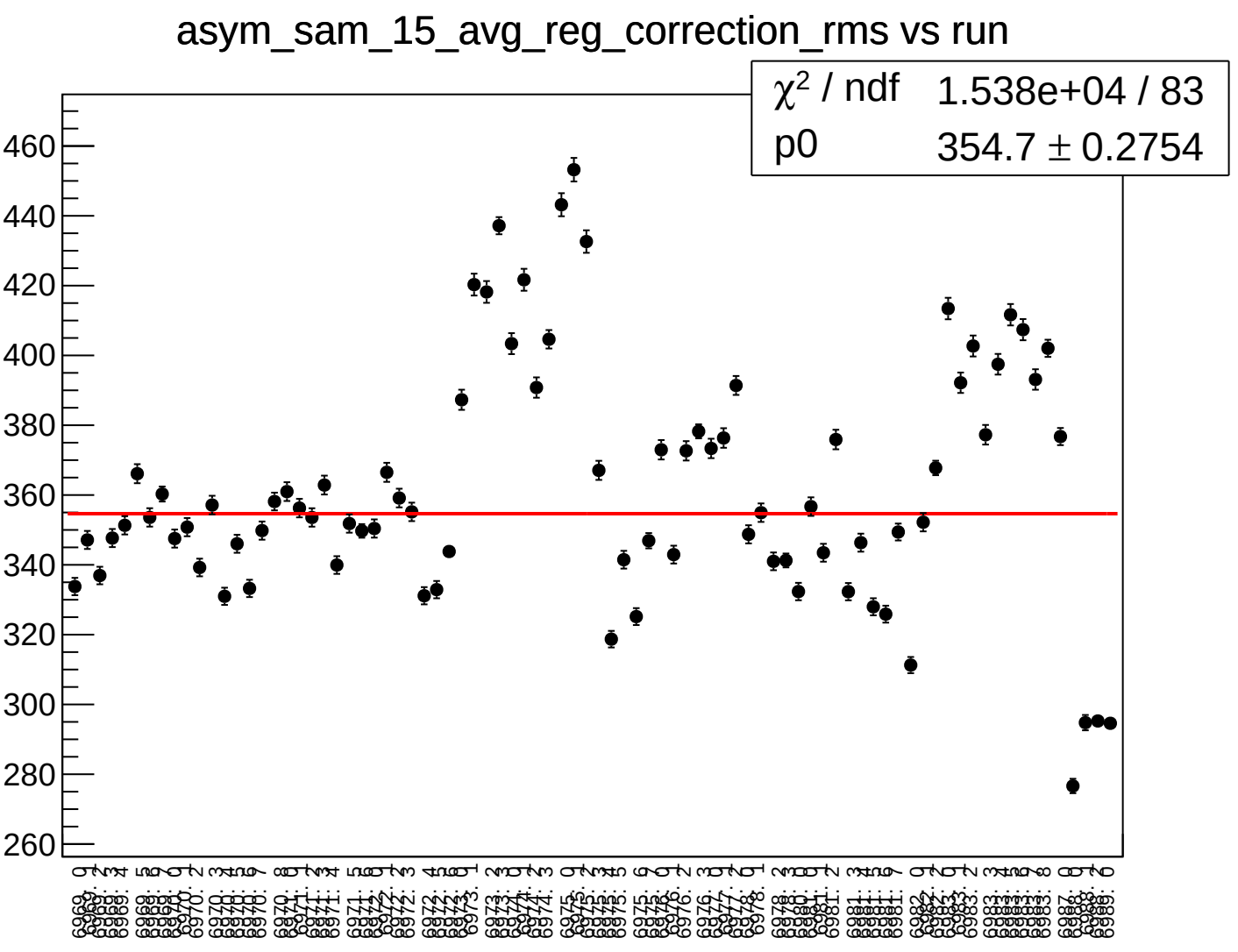

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.837e+05 / 83
p0 9.725e−12 ± 9.316e−15
80
70
60
50
40
30
20
10

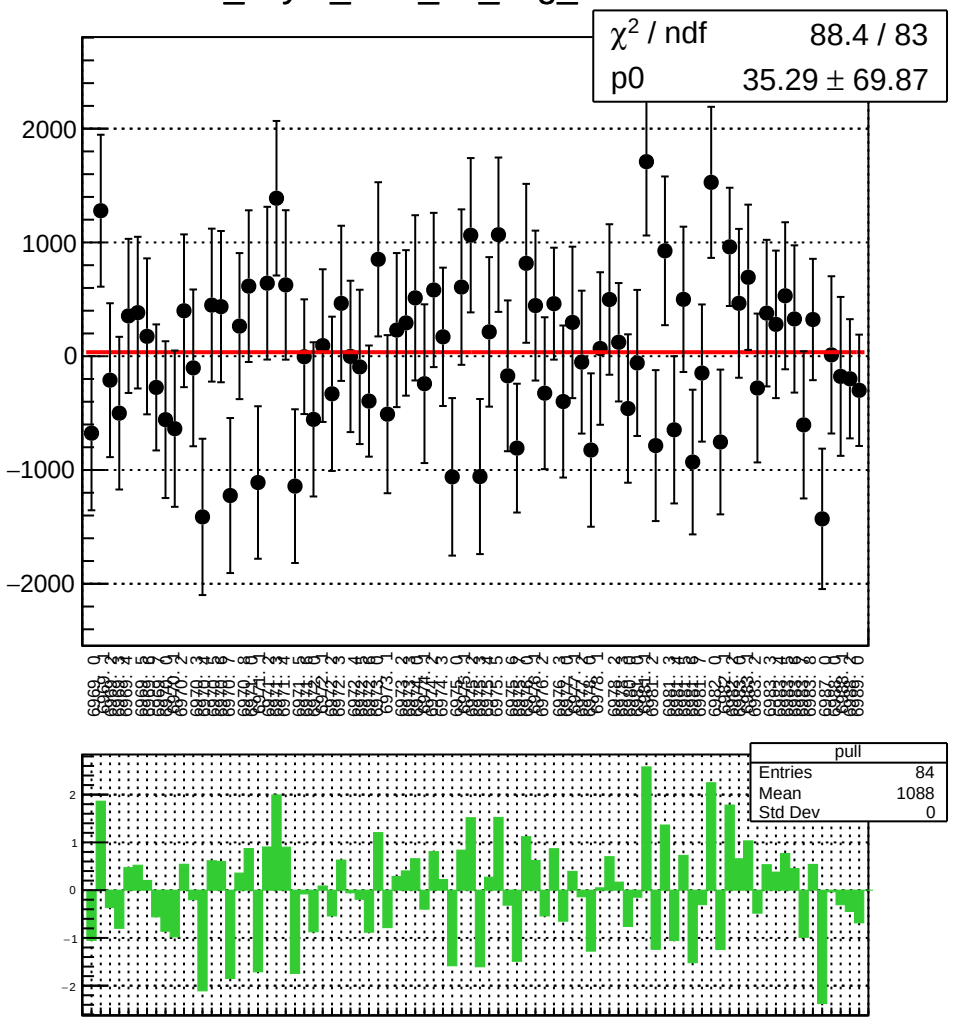

reg_asym_sam_15_avg_mean vs run
χ² / ndf 88.39 / 83
p0 35.31 ± 69.87
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 1085
Std Dev 0
2
1
0
−1
−2

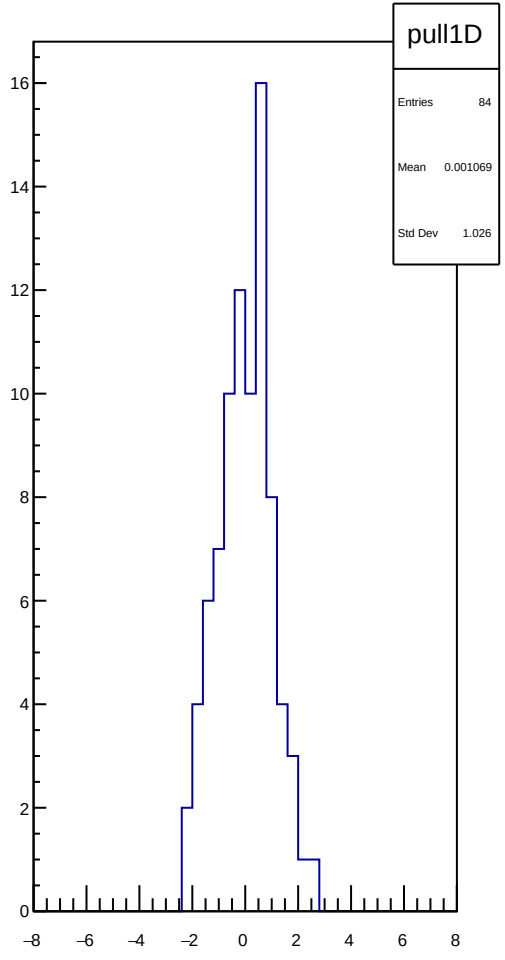

pull1D
Entries 84
Mean 0.001071
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

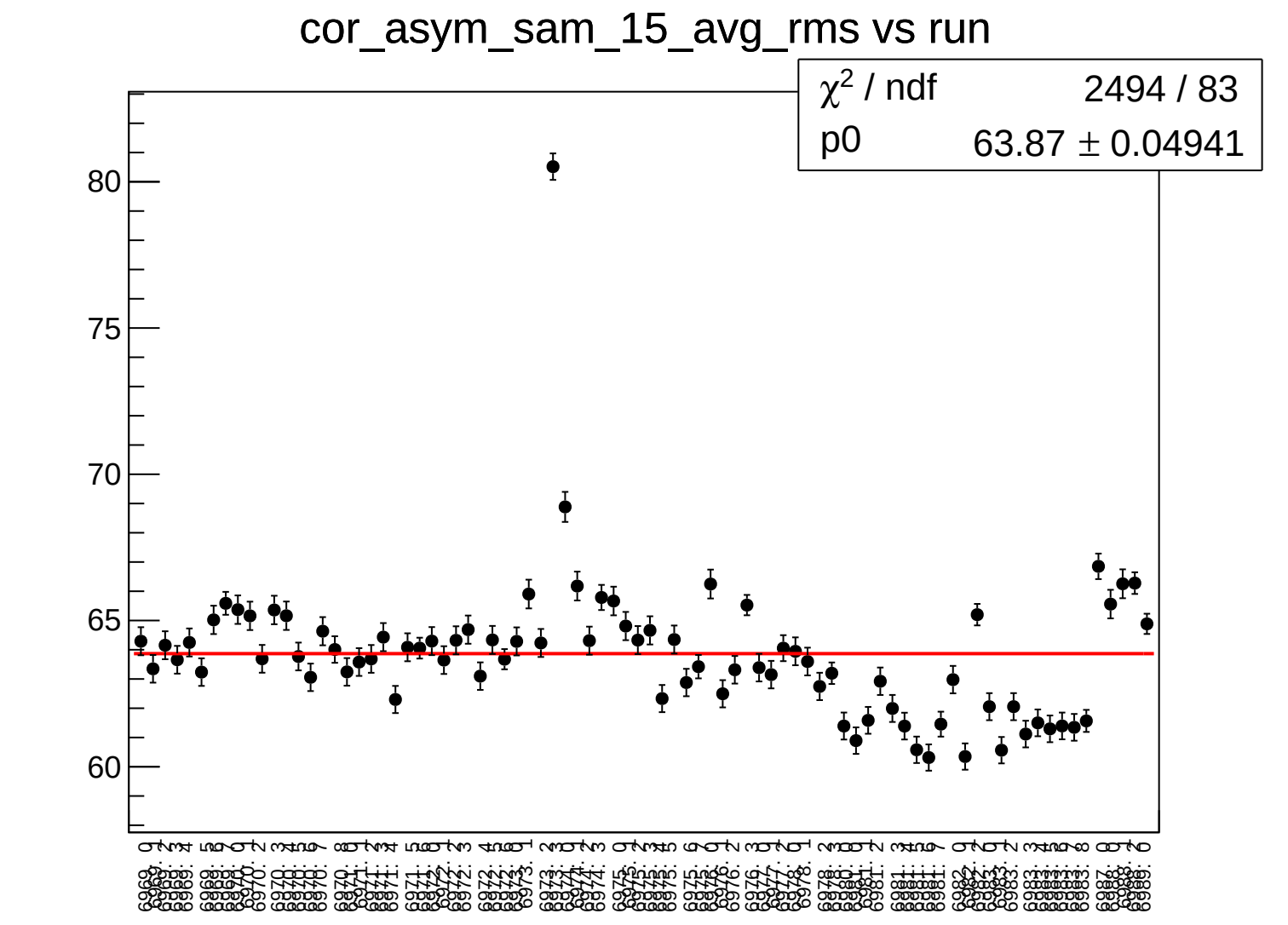

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 2494 / 83
p0 63.87 ± 0.04941
80
75
70
65
60

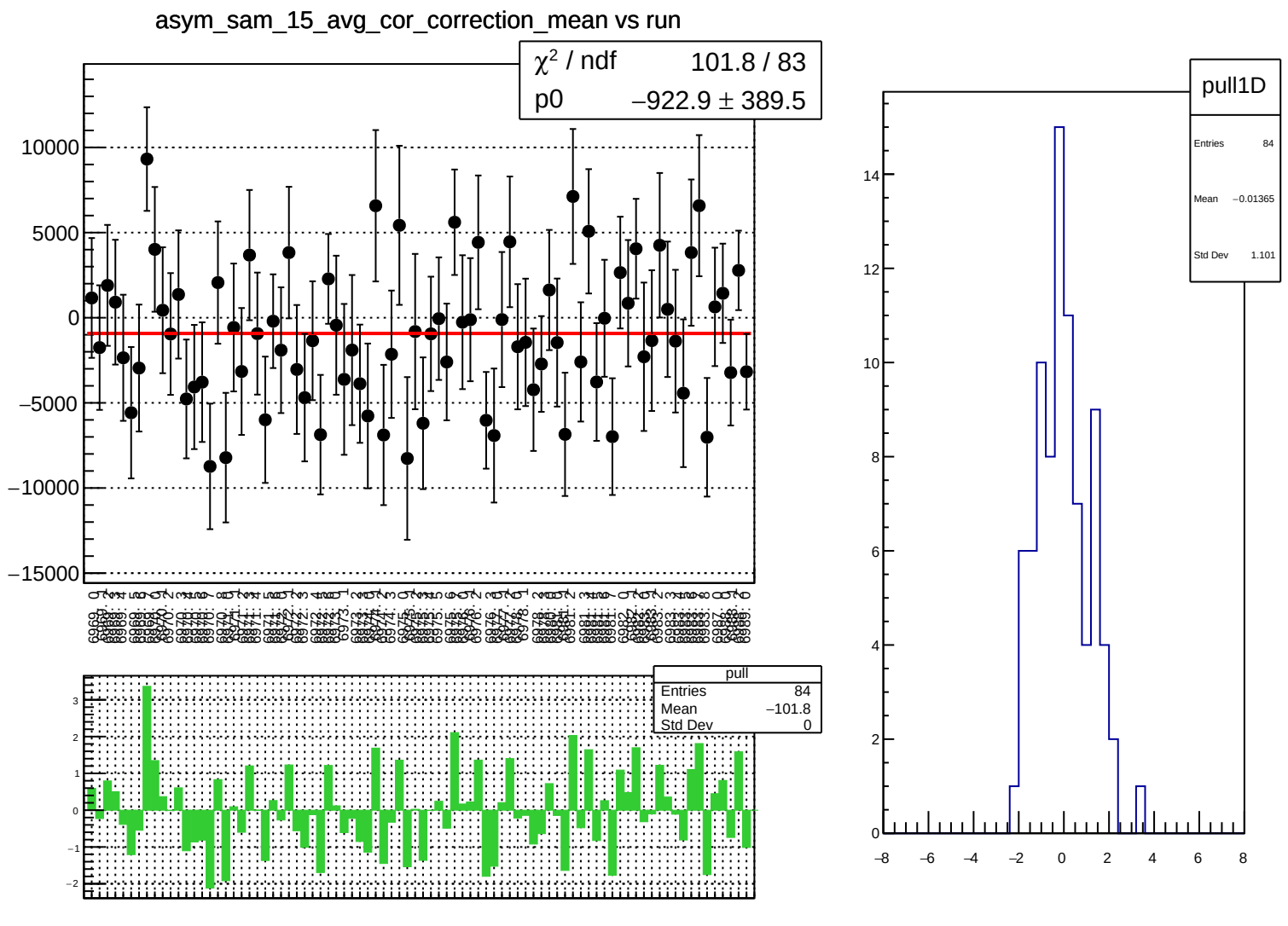

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 101.8 / 83
p0 −922.9 ± 389.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −101.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01365
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

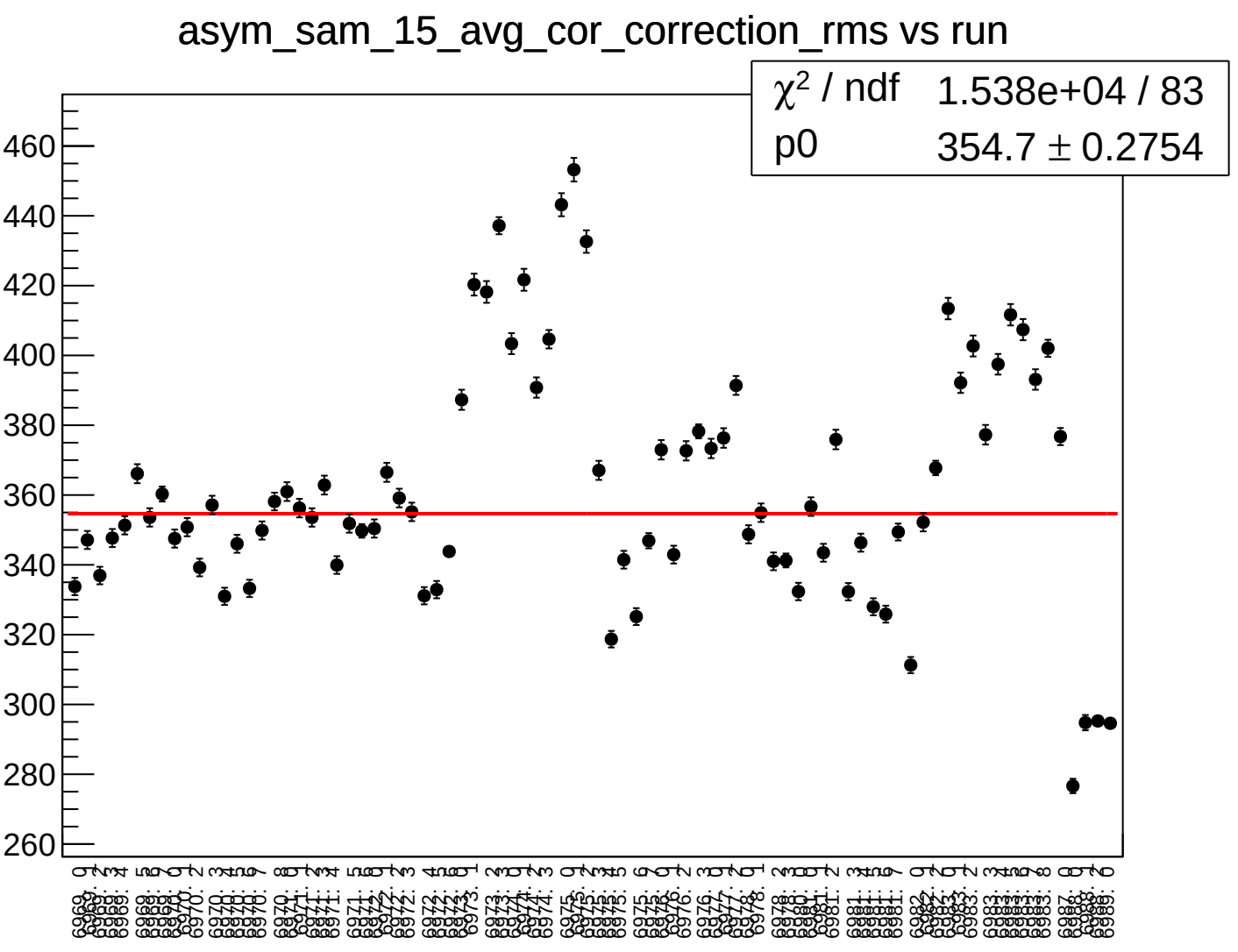

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.538e+04 / 83
p0 354.7 ± 0.2754
460
440
420
400
380
360
340
320
300
280
260

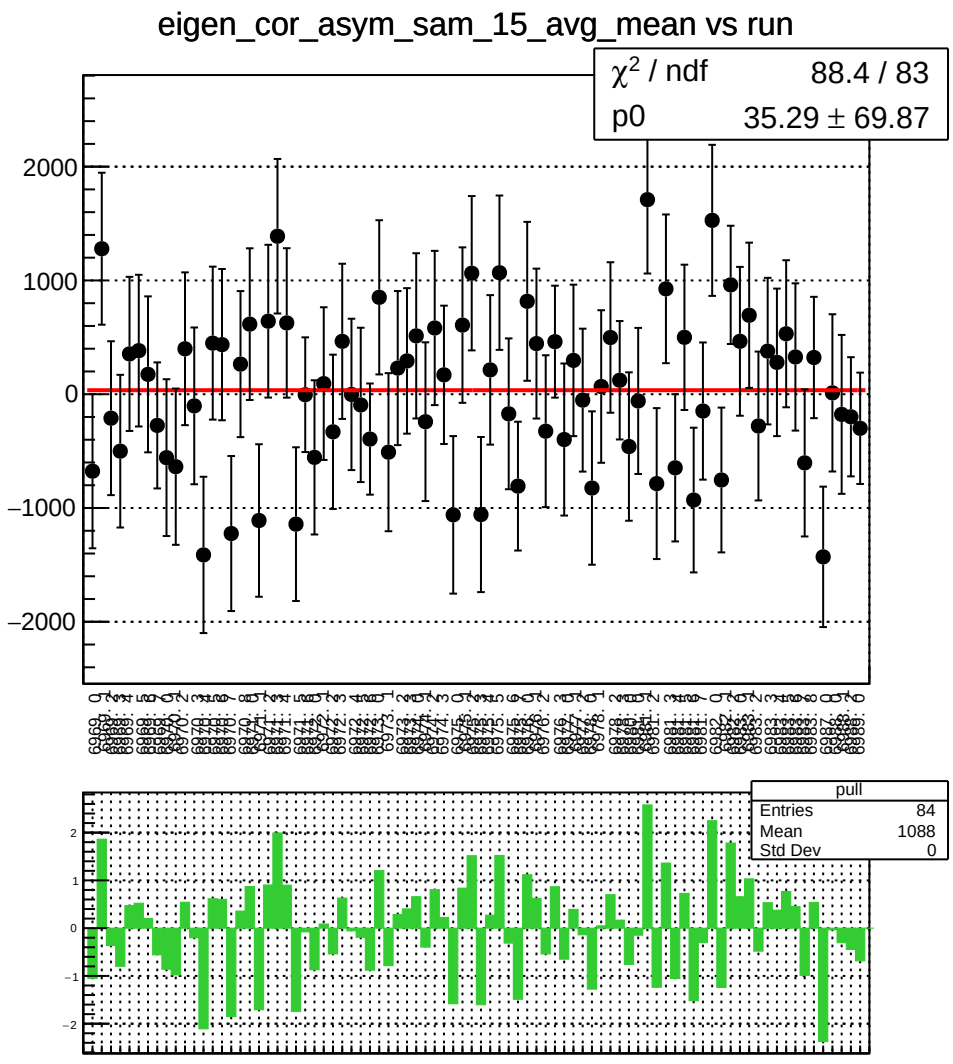

cor_asym_sam_15_avg_mean vs run
χ² / ndf 88.4 / 83
p0 35.29 ± 69.87
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 1088
Std Dev 0
2
1
0
−1
−2

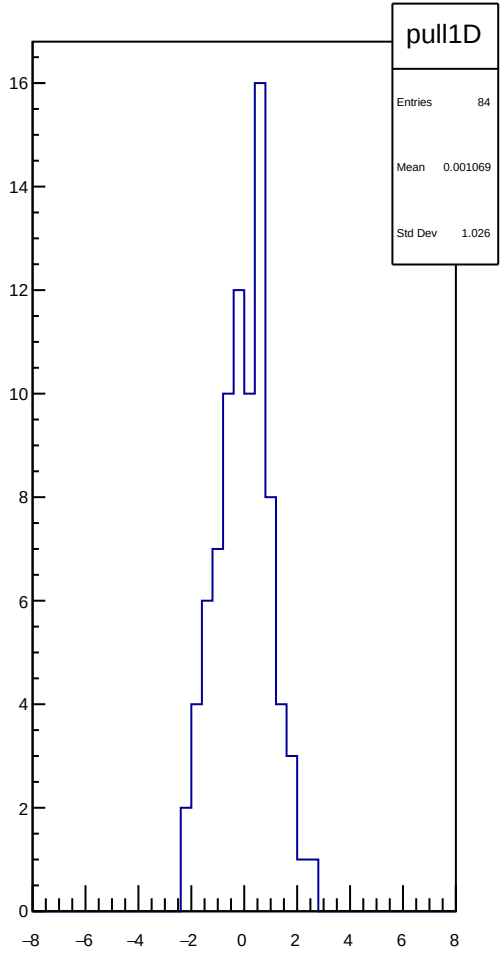

pull1D
Entries 84
Mean 0.001069
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

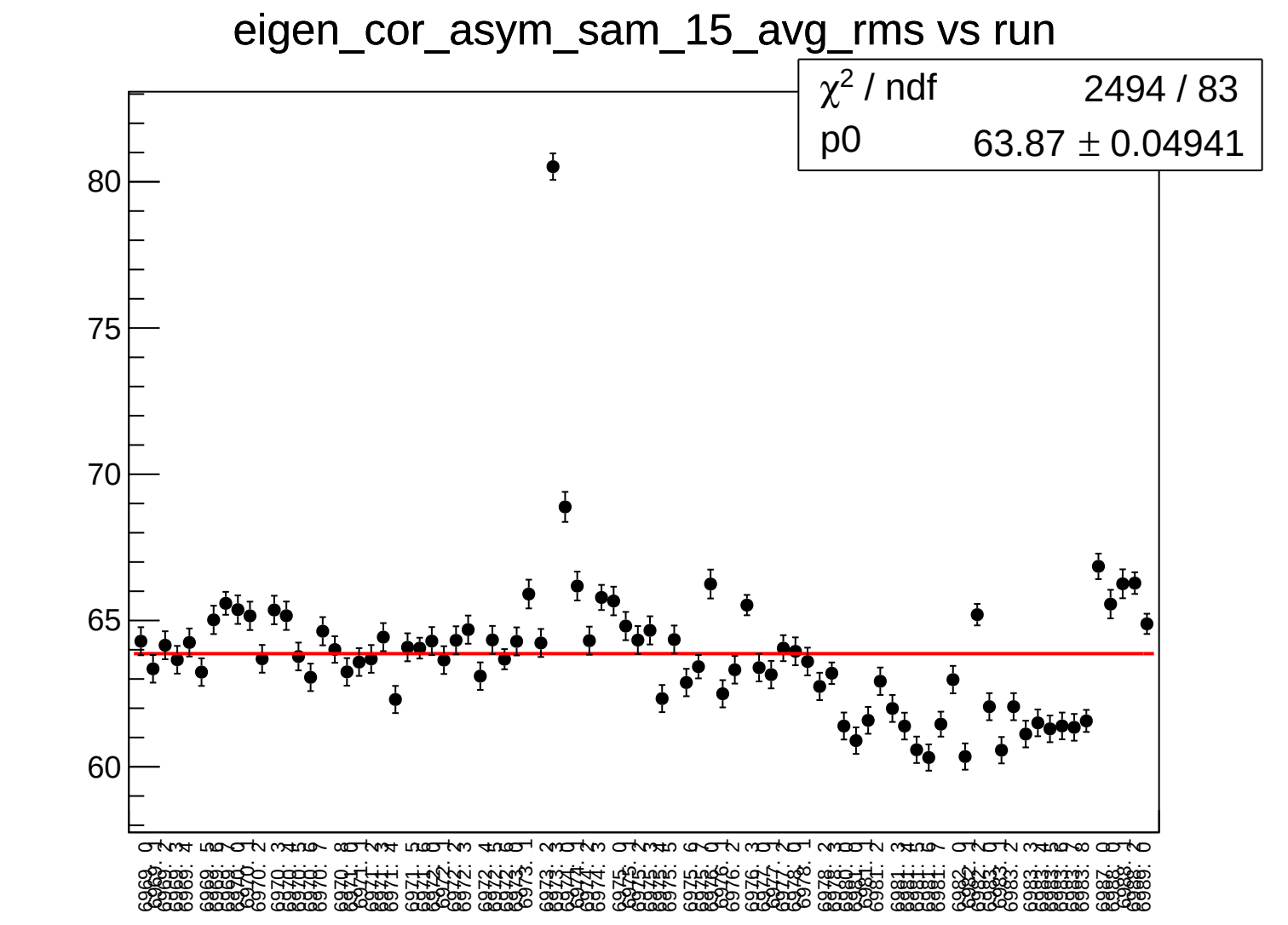

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 2494 / 83
p0 63.87 ± 0.04941
80
75
70
65
60

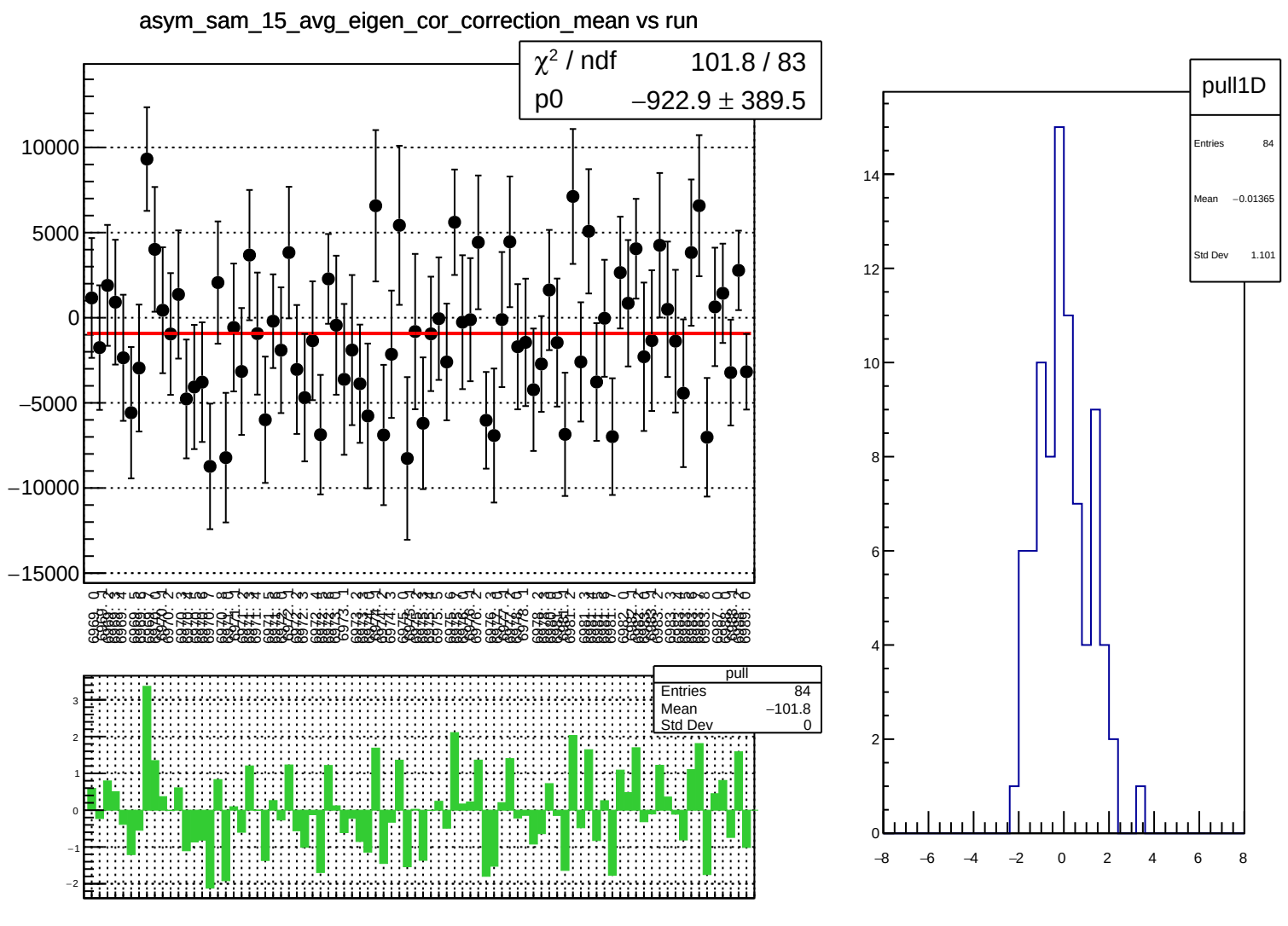

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 101.8 / 83
p0 −922.9 ± 389.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −101.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01365
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

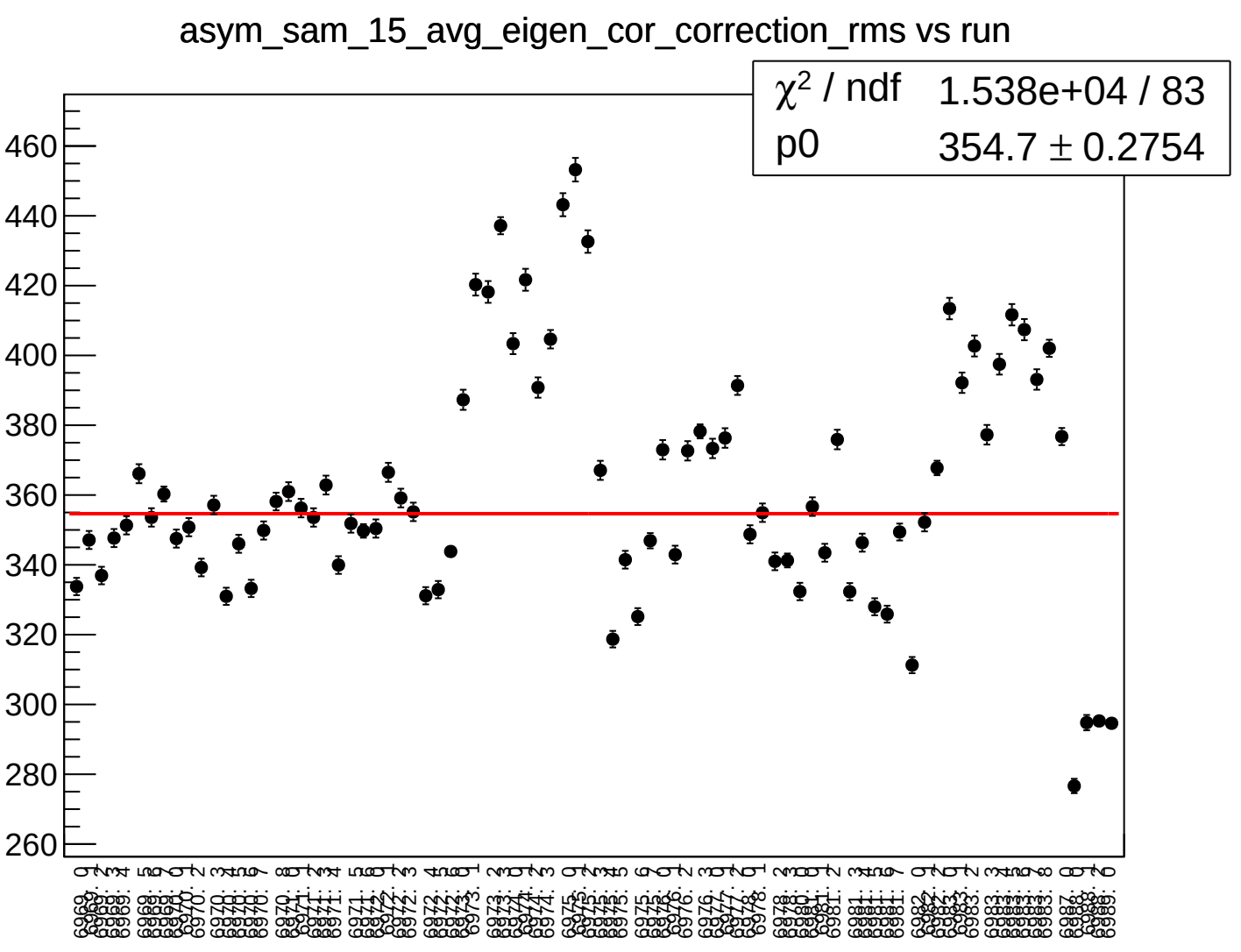

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.538e+04 / 83
p0 354.7 ± 0.2754
460
440
420
400
380
360
340
320
300
280
260

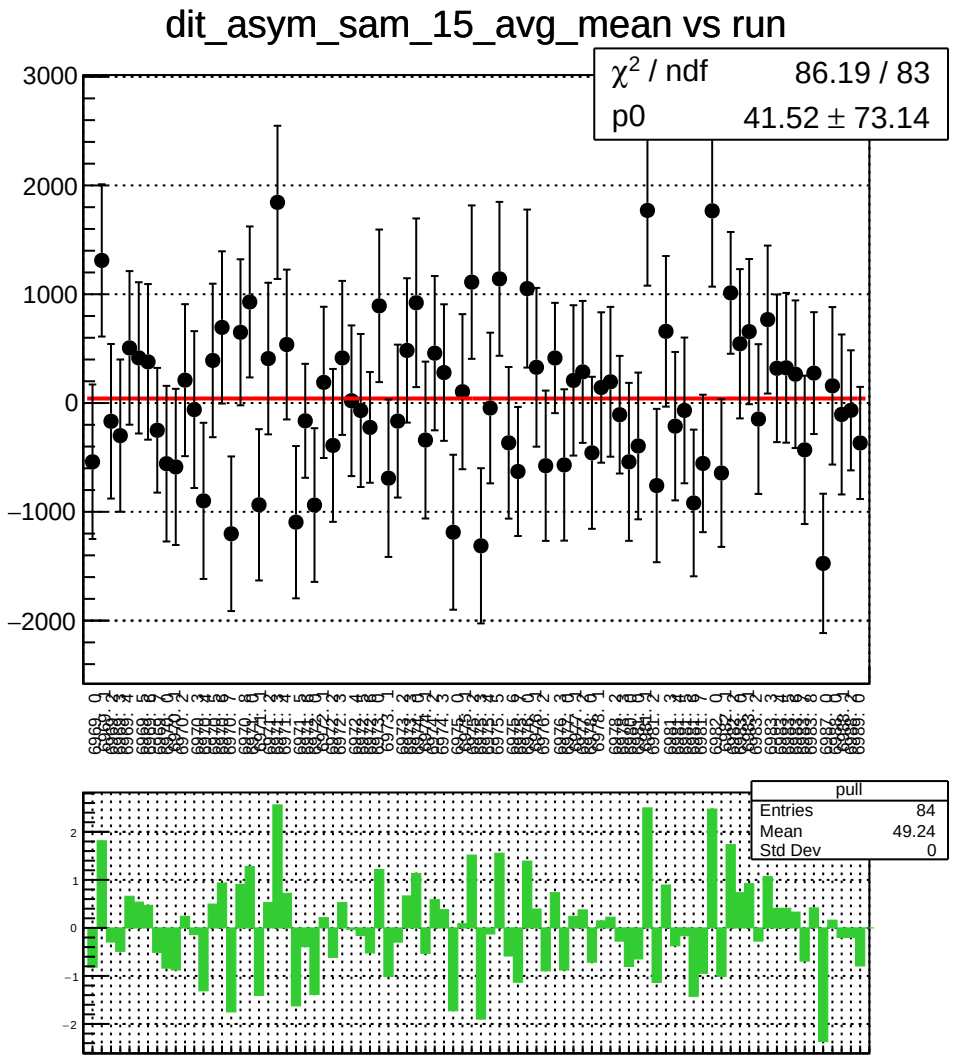

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 88.4 / 83
p0 35.29 ± 69.87
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 1088
Std Dev 0
2
1
0
−1
−2

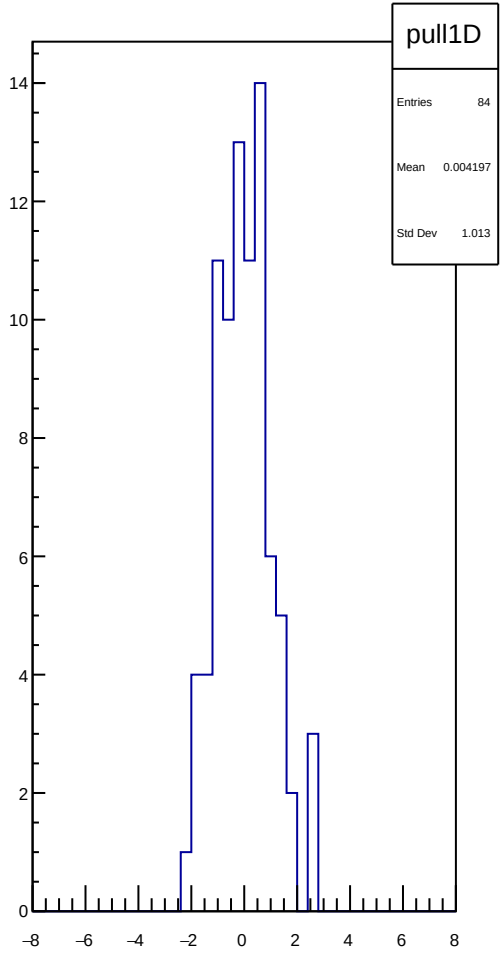

pull1D
Entries 84
Mean 0.001069
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

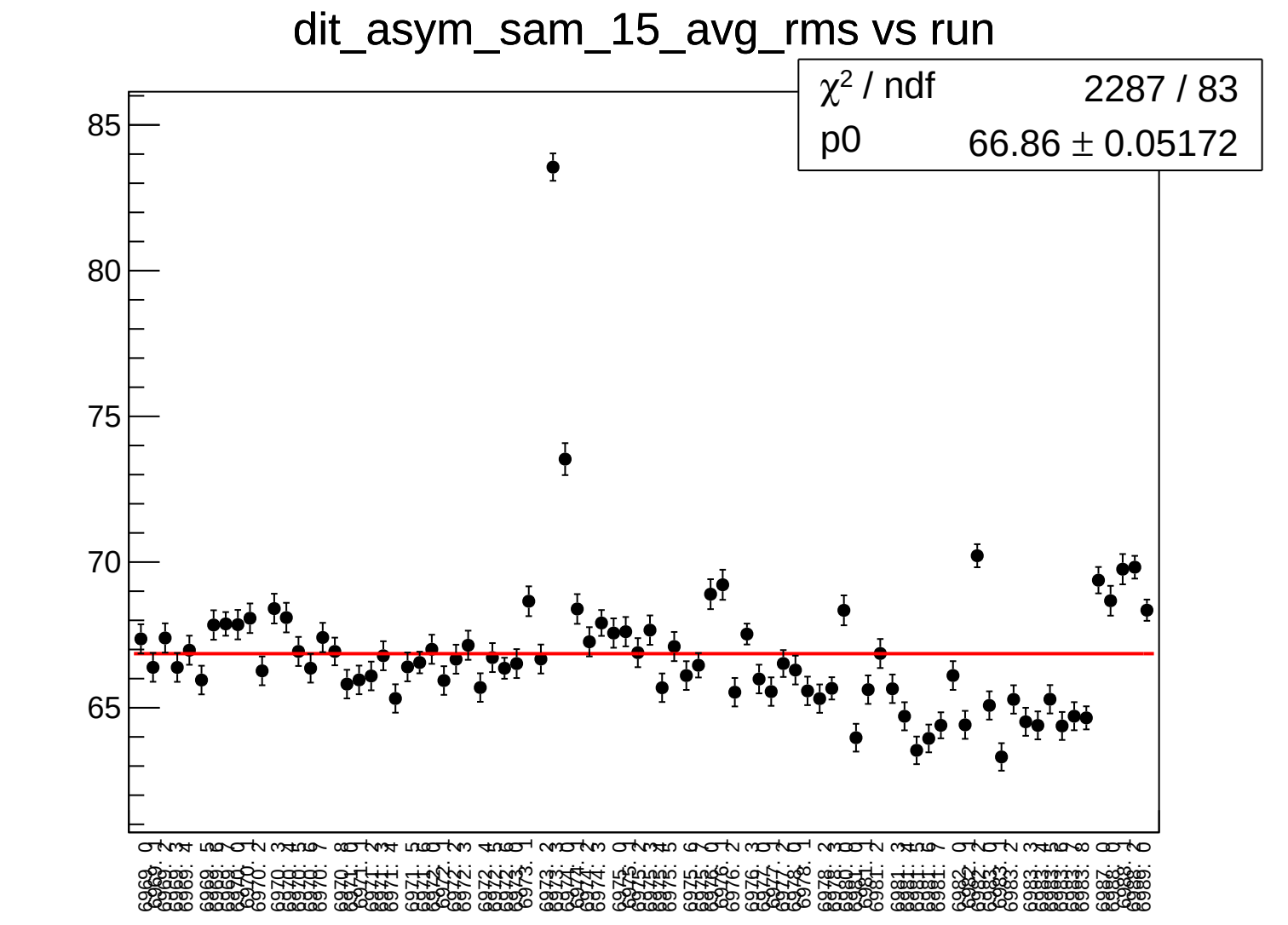

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 2494 / 83
p0 63.87 ± 0.04941
80
75
70
65
60

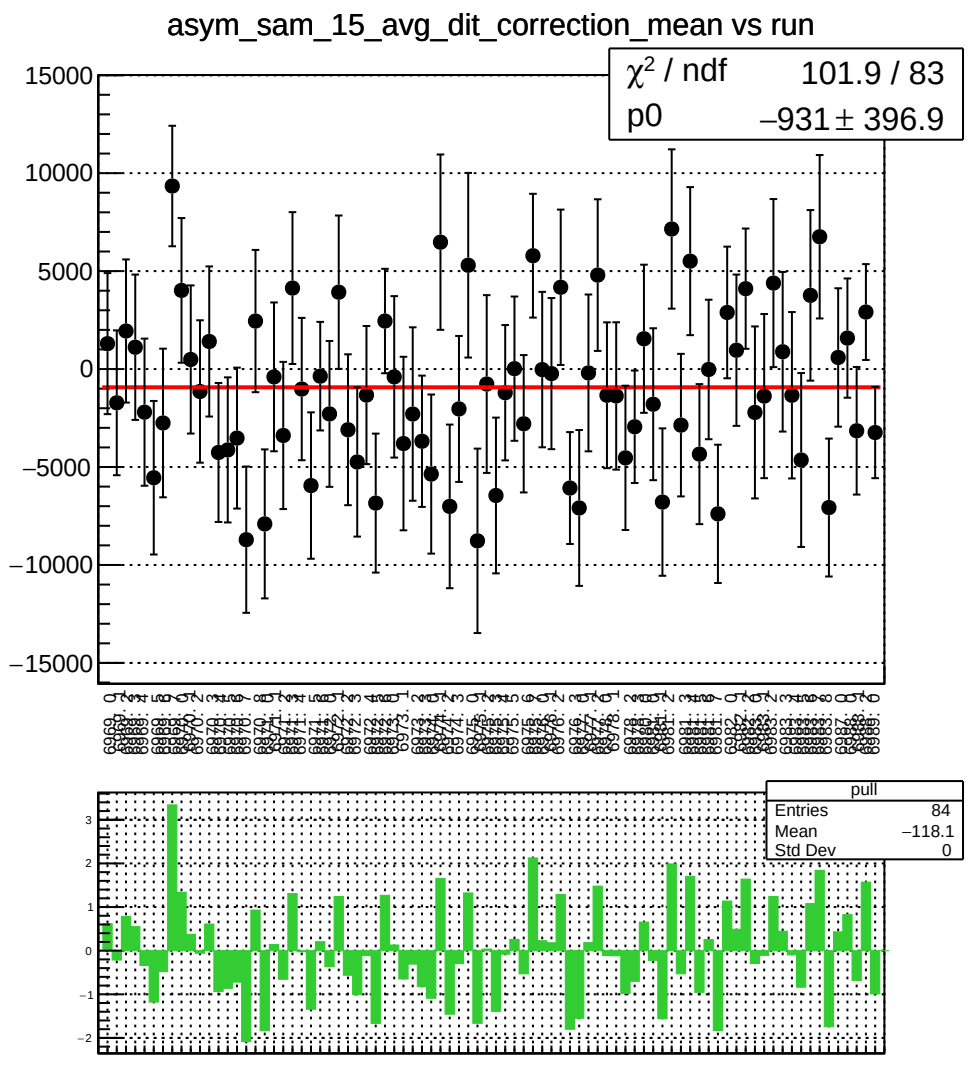

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.8 / 83
p0 −922.9 ± 389.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −101.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01365
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

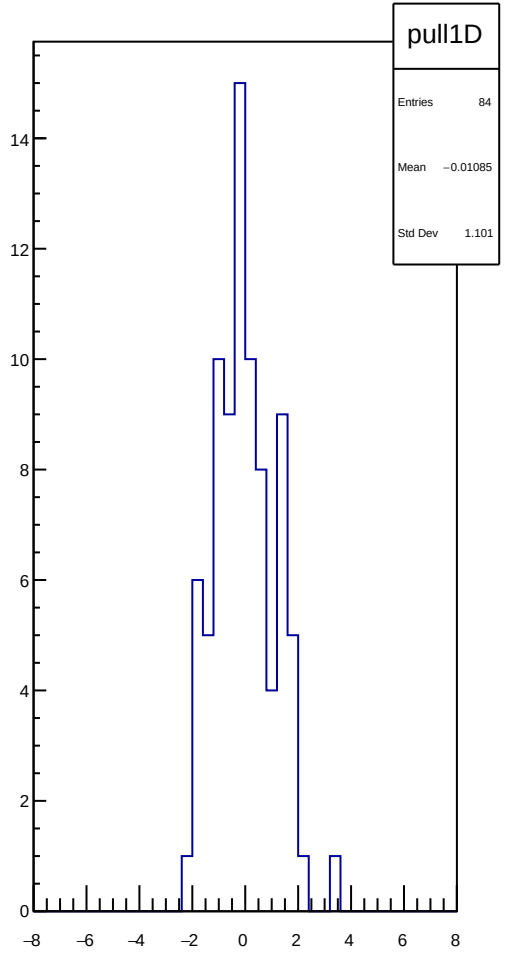

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.538e+04 / 83
p0 354.7 ± 0.2754
460
440
420
400
380
360
340
320
300
280
260

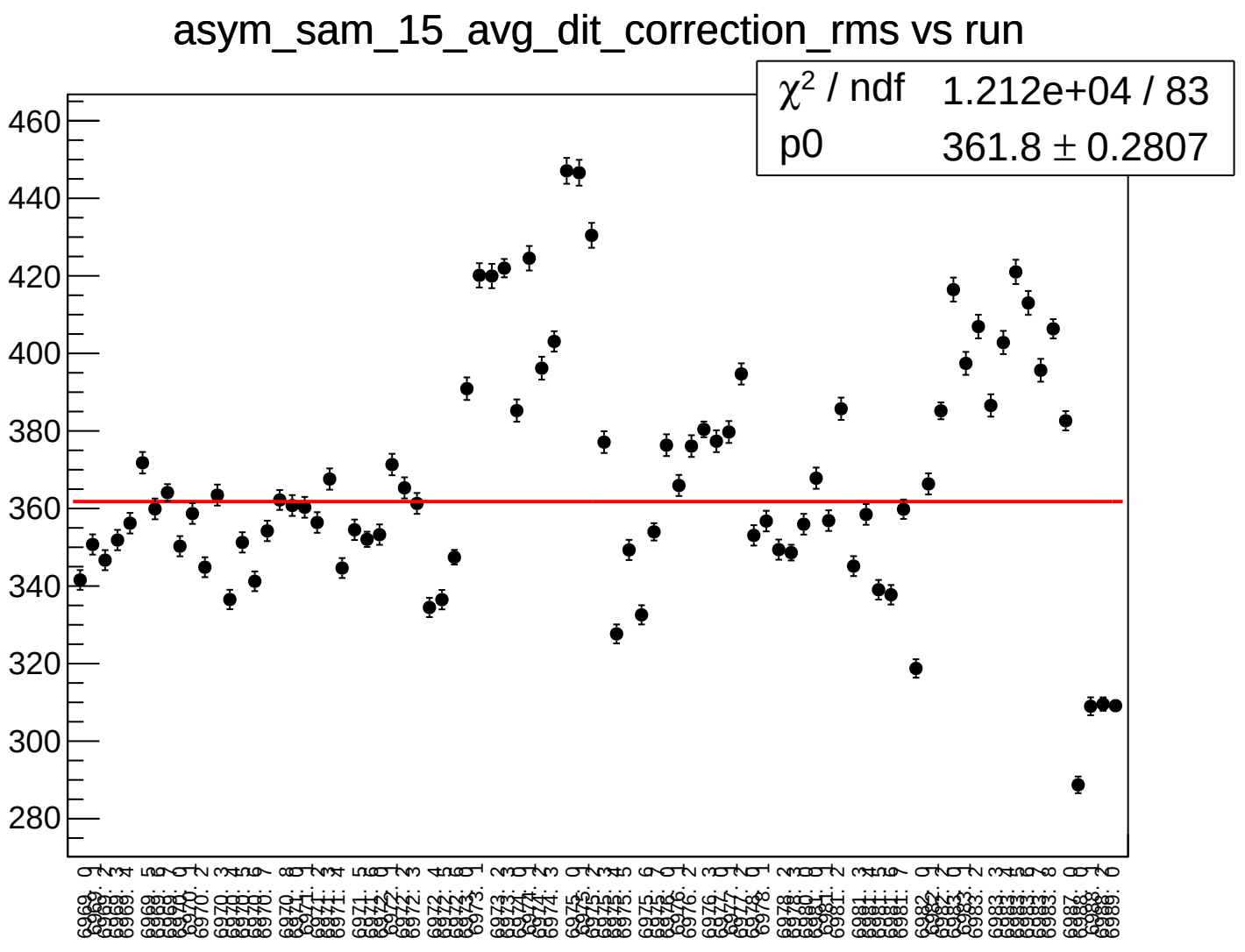

dit_asym_sam_15_avg_mean vs run
χ² / ndf 86.19 / 83
p0 41.52 ± 73.14
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 49.24
Std Dev 0
2
1
0
−1
−2

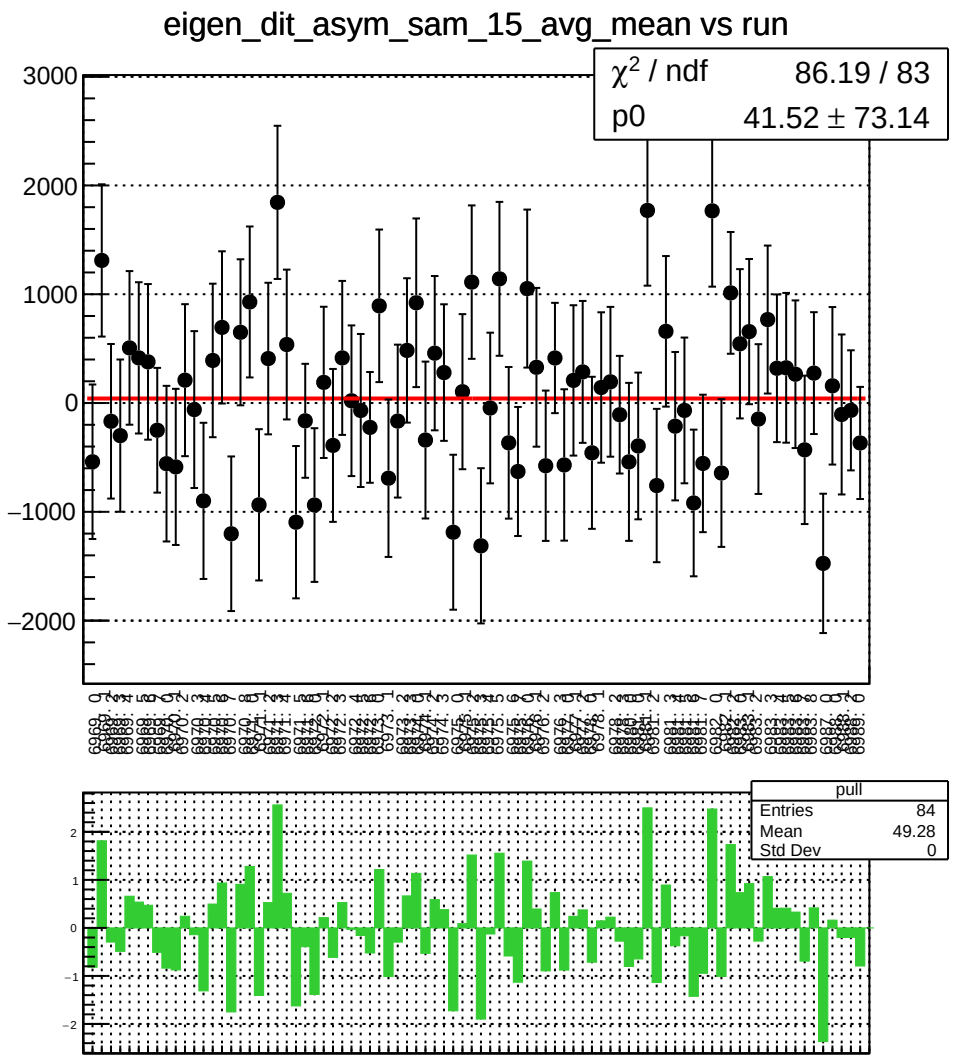

pull1D
Entries 84
Mean 0.004197
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

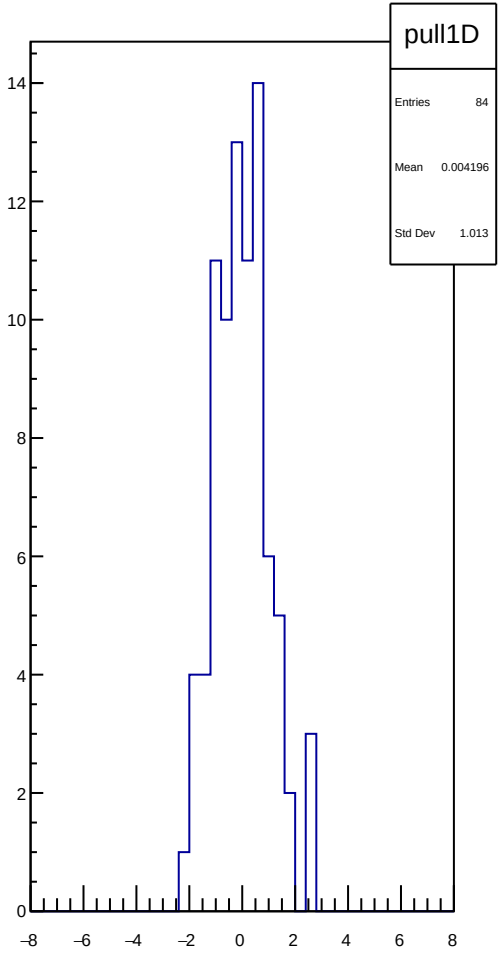

dit_asym_sam_15_avg_rms vs run
χ² / ndf 2287 / 83
p0 66.86 ± 0.05172
85
80
75
70
65

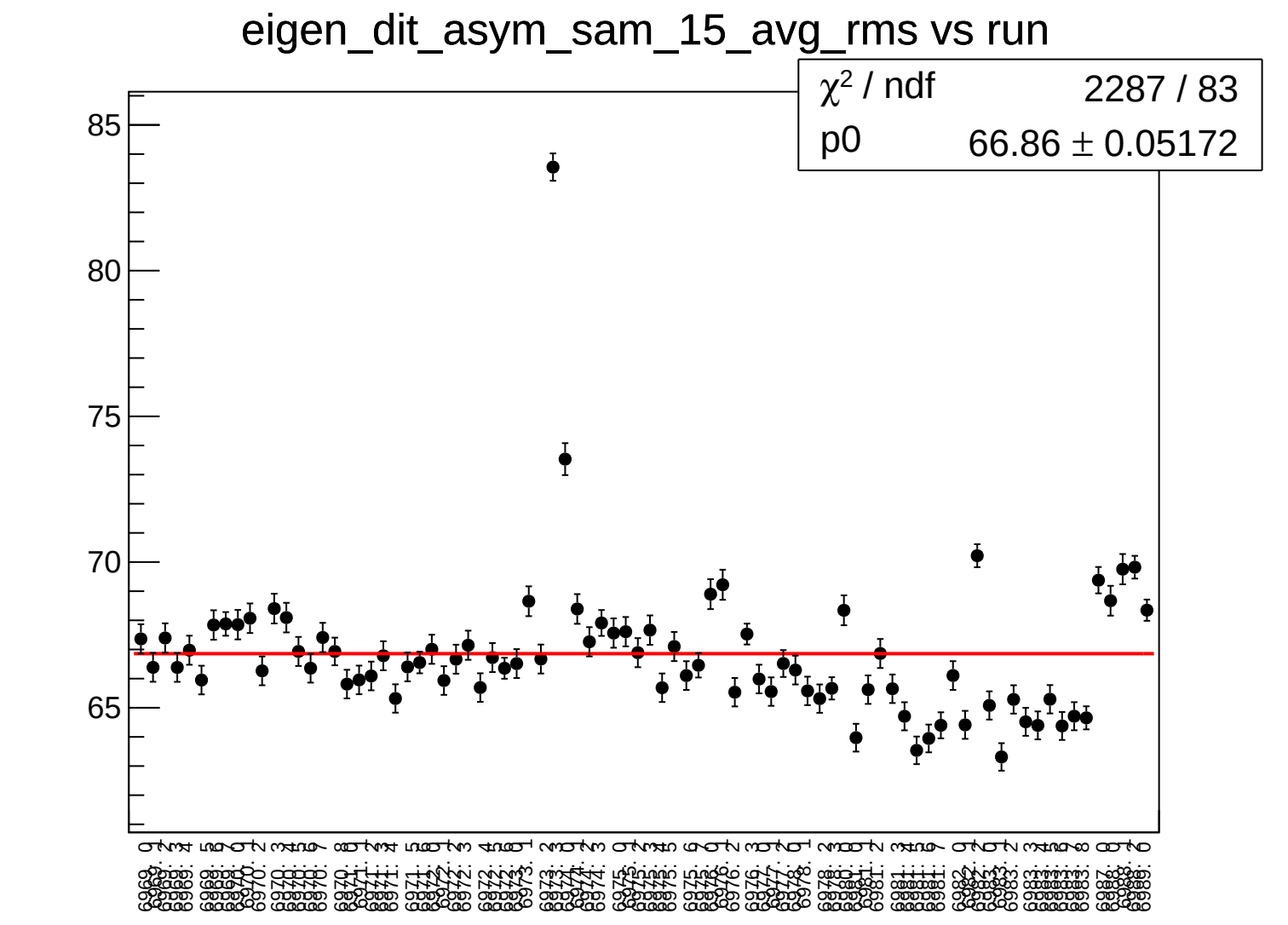

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 101.9 / 83
p0 −931 ± 396.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −118.1
Std Dev 0
3
2
1
0
−1
−2

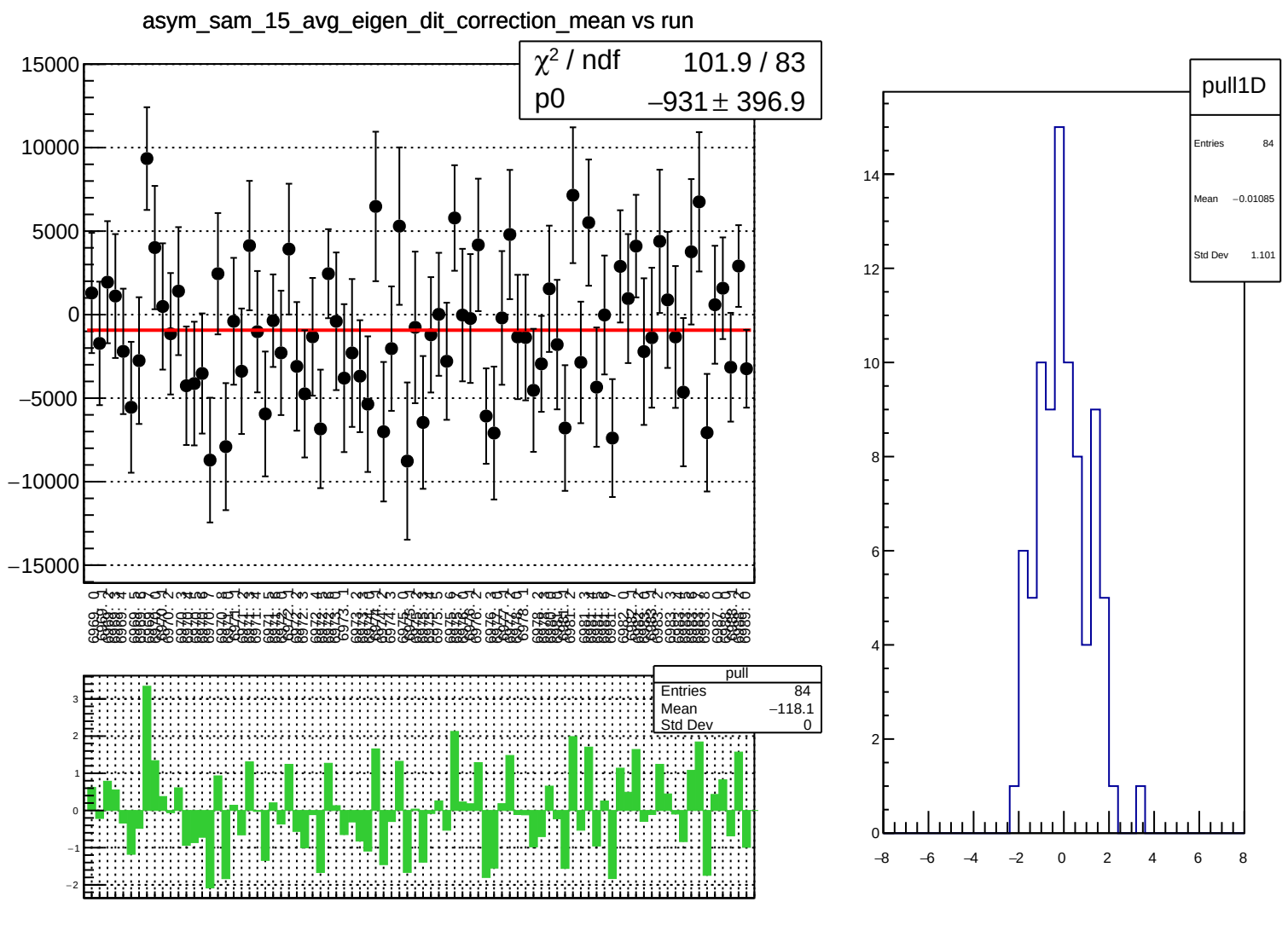

pull1D
Entries 84
Mean −0.01085
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

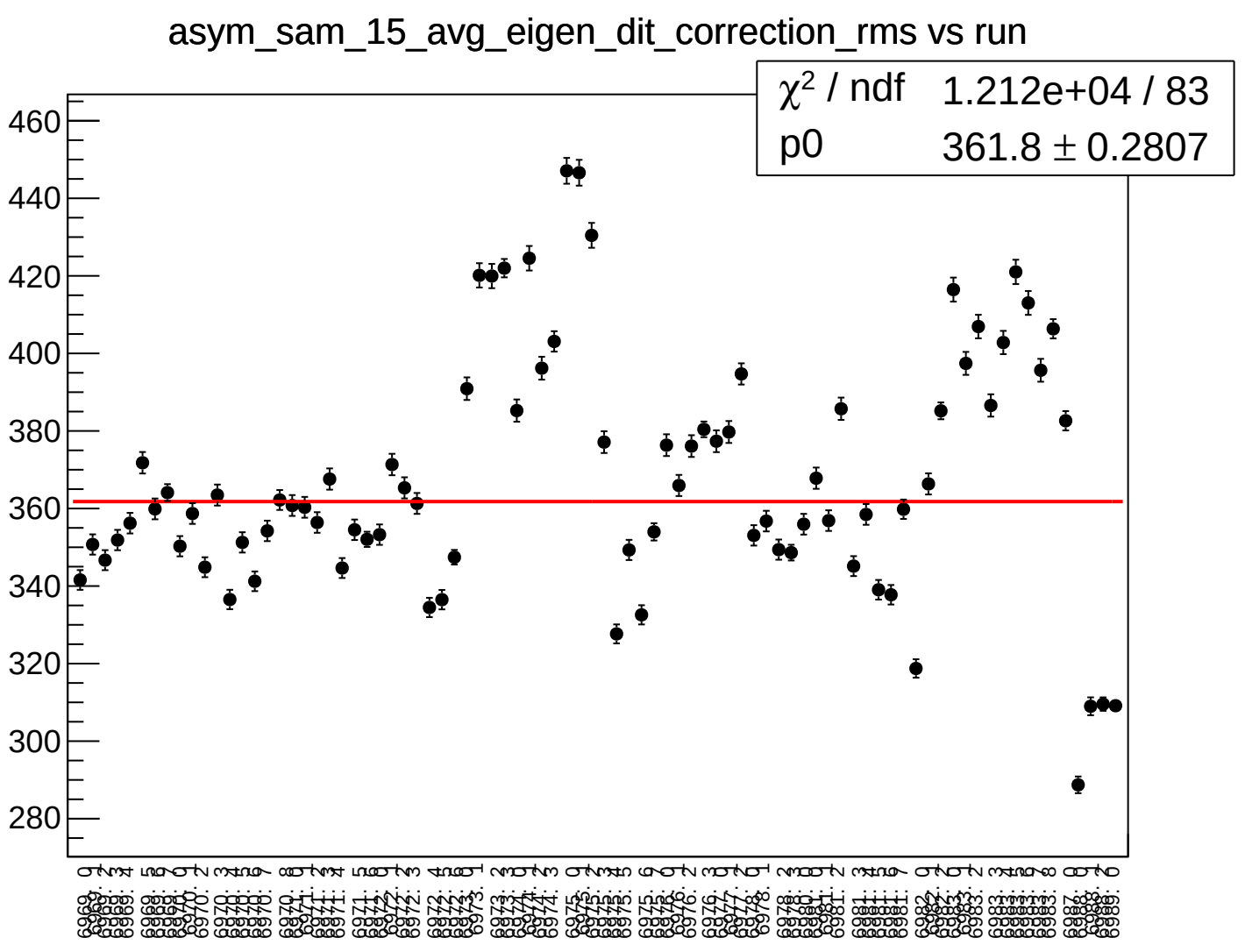

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1.212e+04 / 83
p0 361.8 ± 0.2807
460
440
420
400
380
360
340
320
300
280

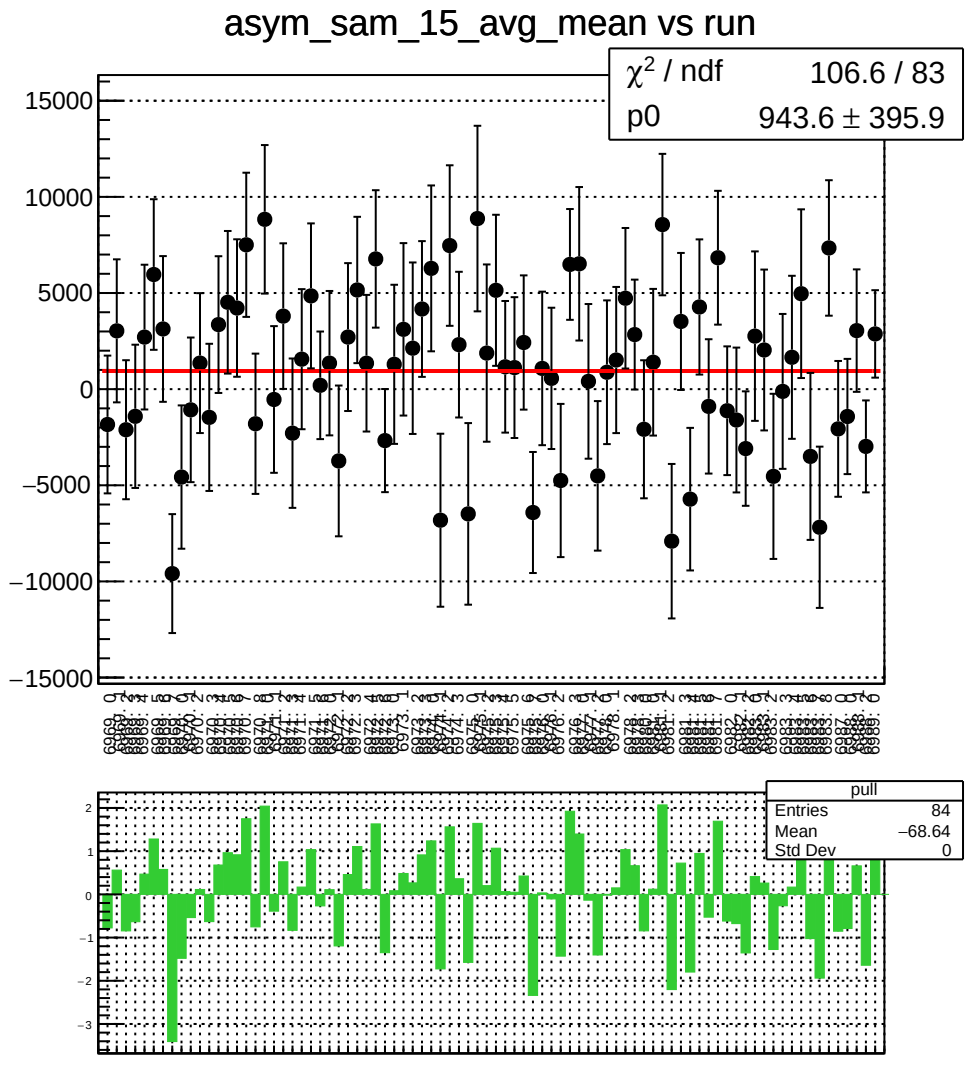

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 86.19 / 83
p0 41.52 ± 73.14
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 49.28
Std Dev 0
2
1
0
−1
−2

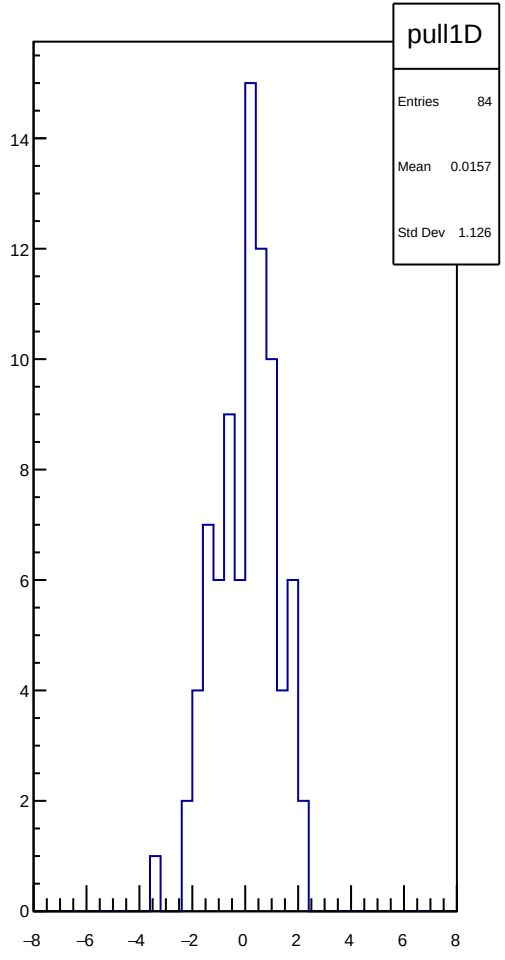

pull1D
Entries 84
Mean 0.004196
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

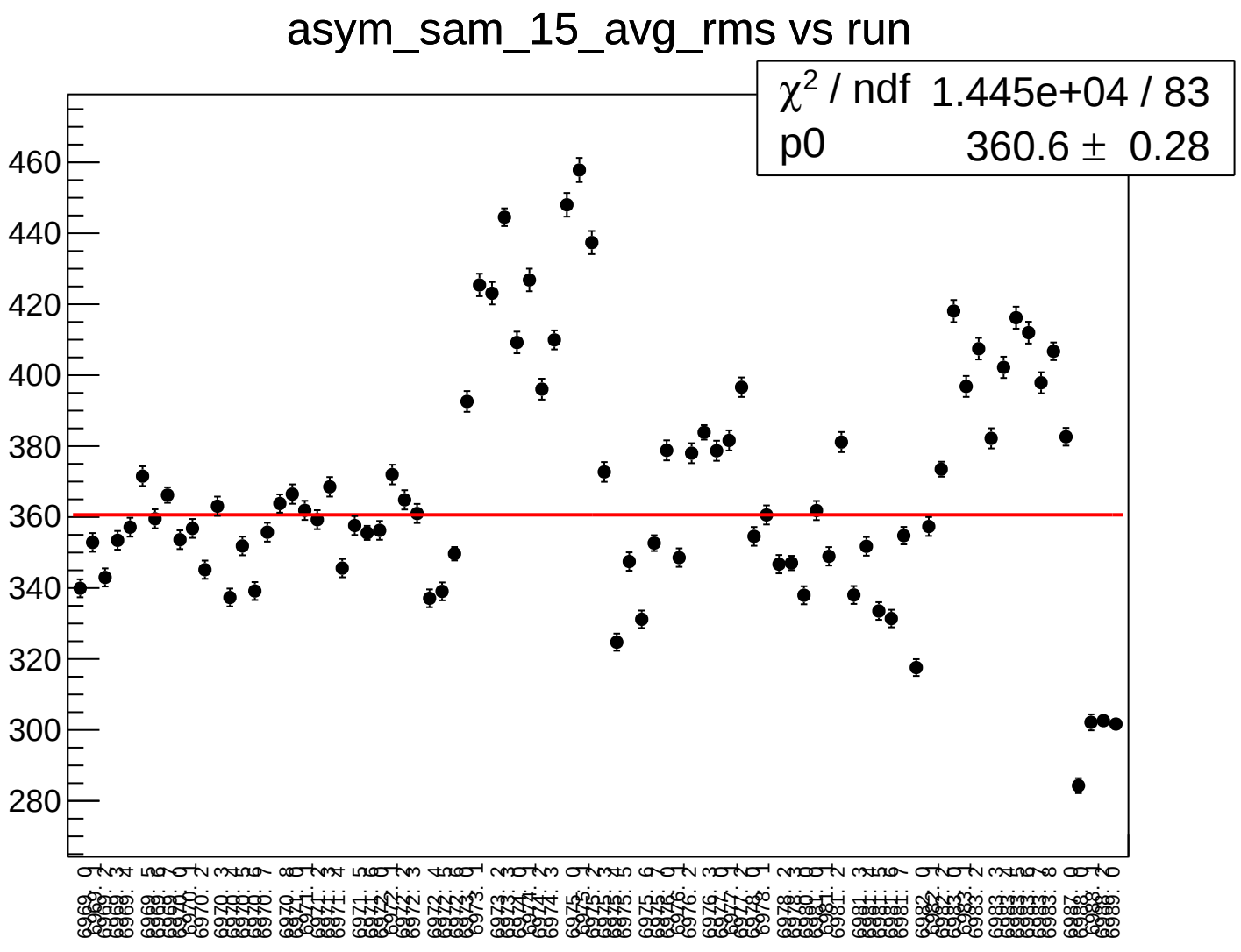

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 2287 / 83
p0 66.86 ± 0.05172
85
80
75
70
65

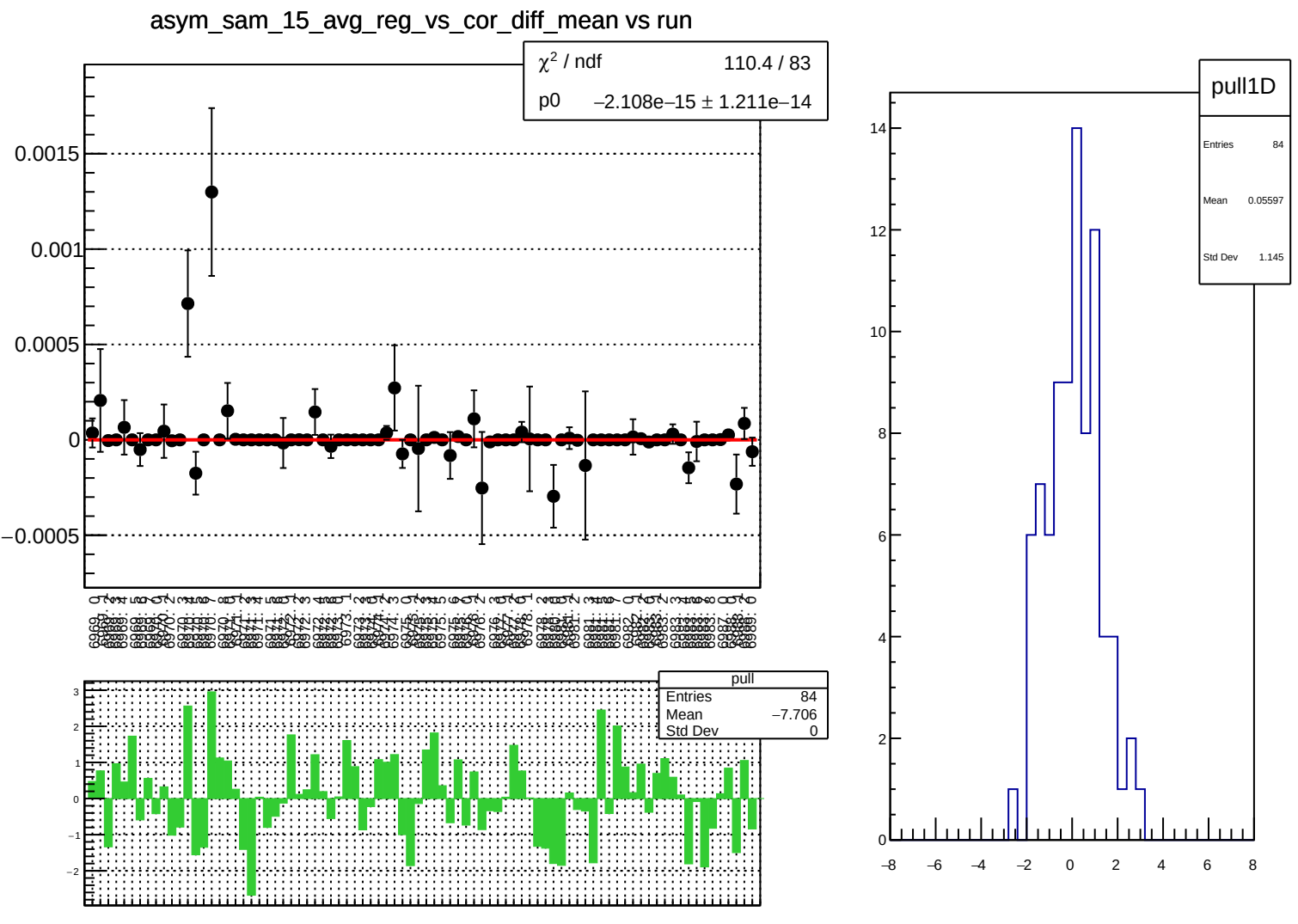

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.9 / 83
p0 −931 ± 396.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −118.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01085
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

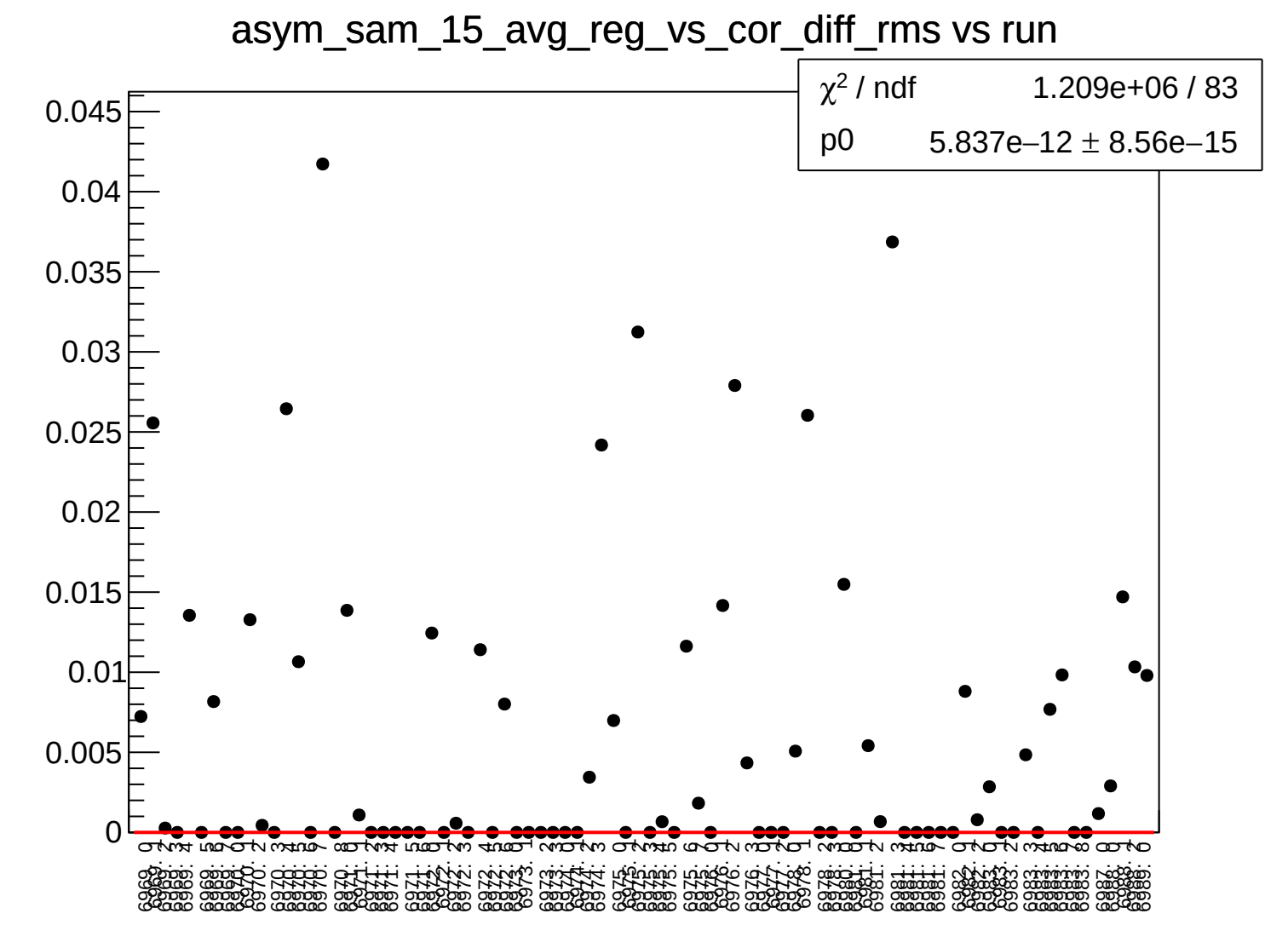

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.212e+04 / 83
p0 361.8 ± 0.2807
460
440
420
400
380
360
340
320
300
280

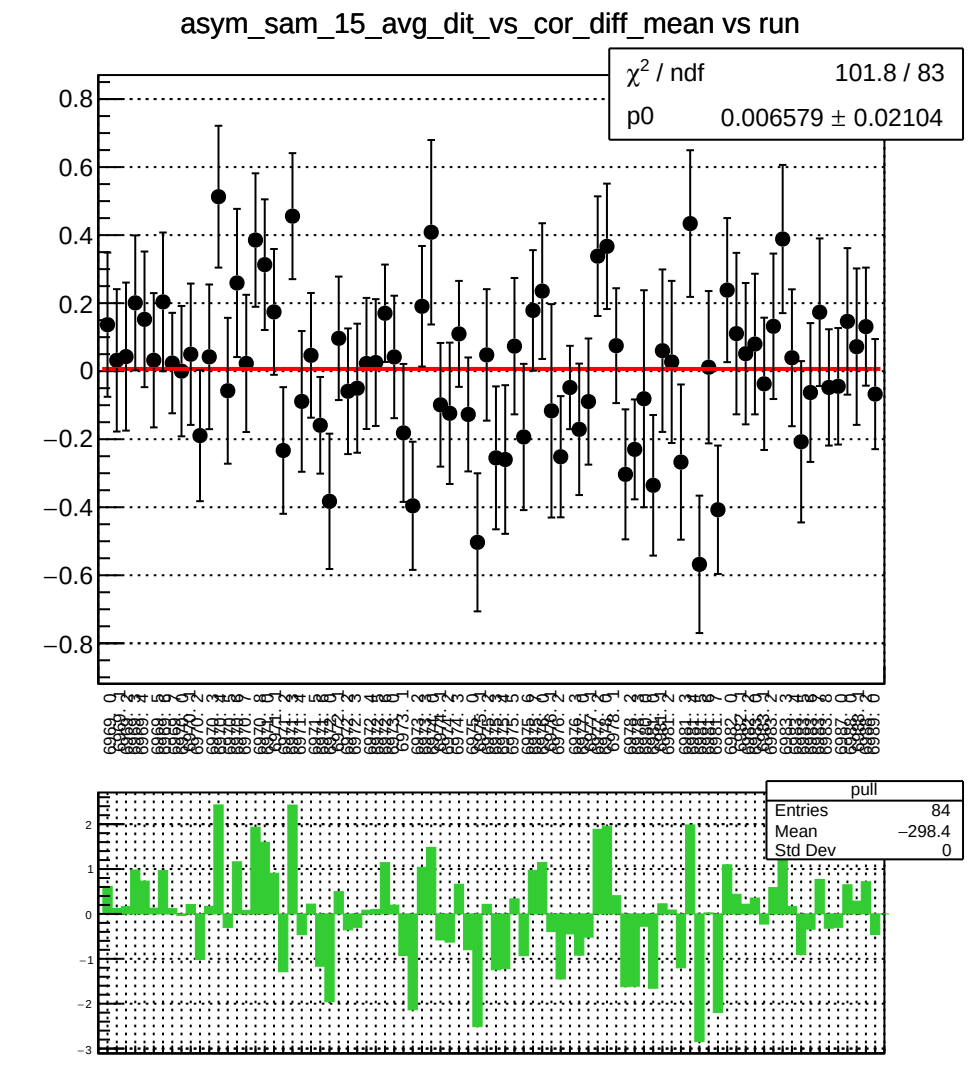

asym_sam_15_avg_mean vs run
χ² / ndf 106.6 / 83
p0 943.6 ± 395.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −68.64
Std Dev 0
2
1
0
−1
−2
−3

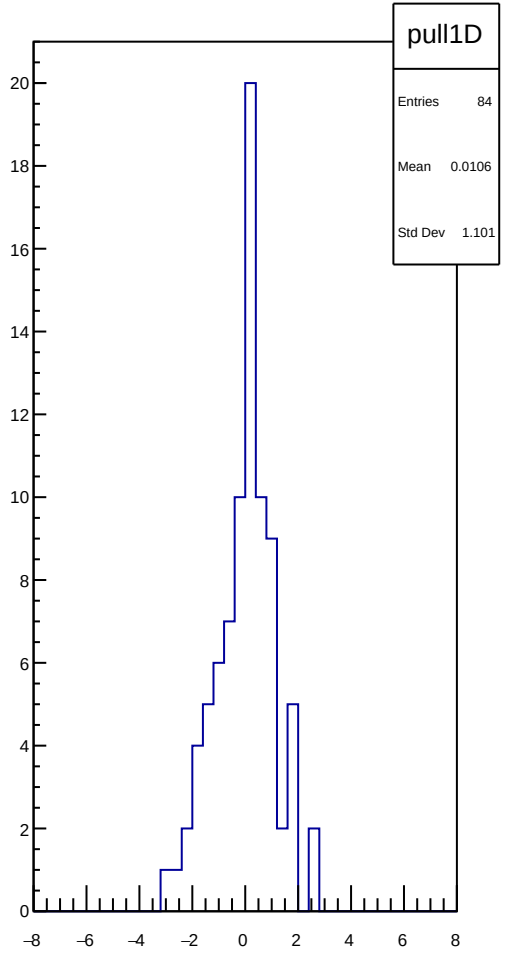

pull1D
Entries 84
Mean 0.0157
Std Dev 1.126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

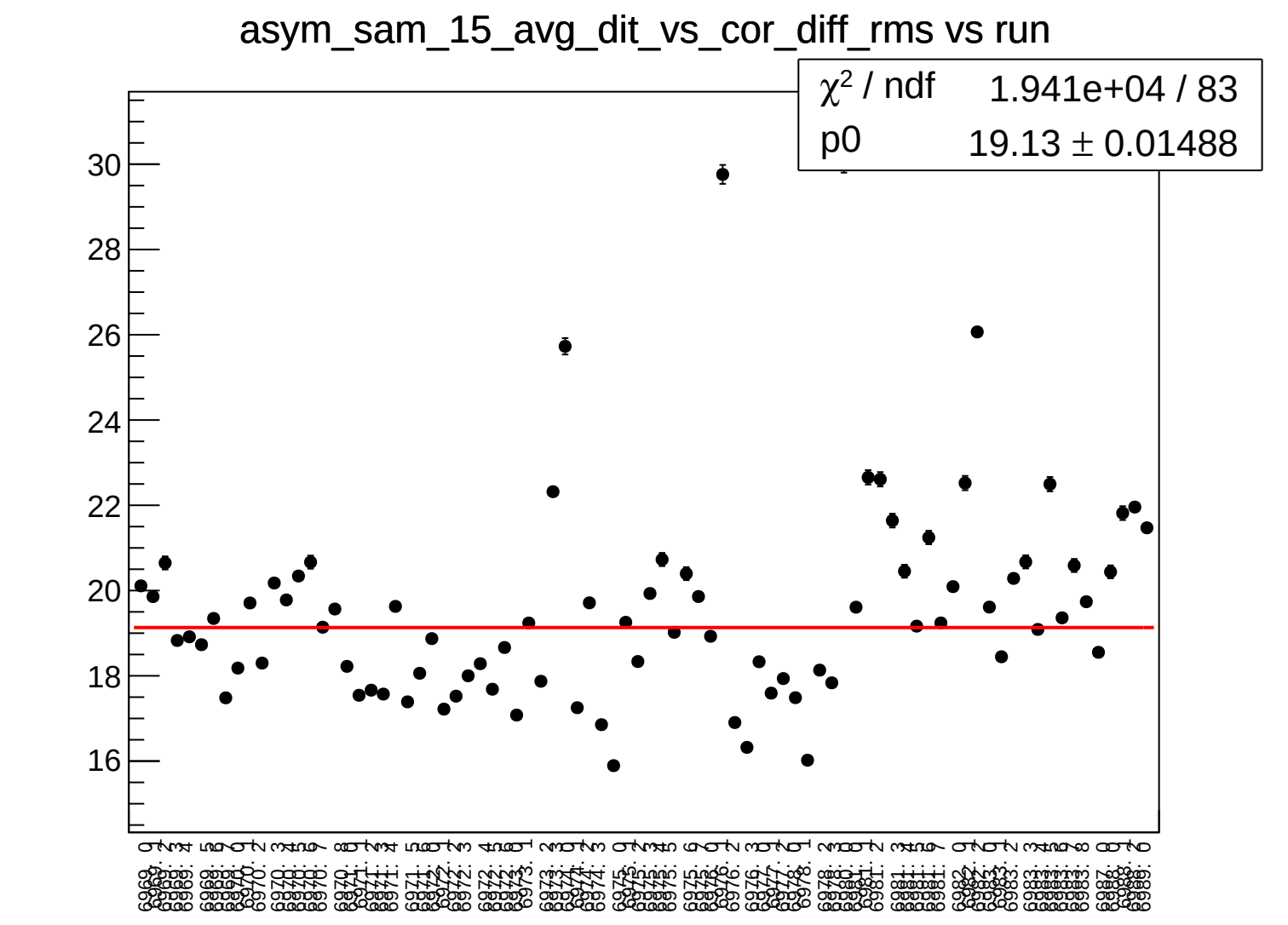

asym_sam_15_avg_rms vs run
χ² / ndf 1.445e+04 / 83
p0 360.6 ± 0.28
460
440
420
400
380
360
340
320
300
280

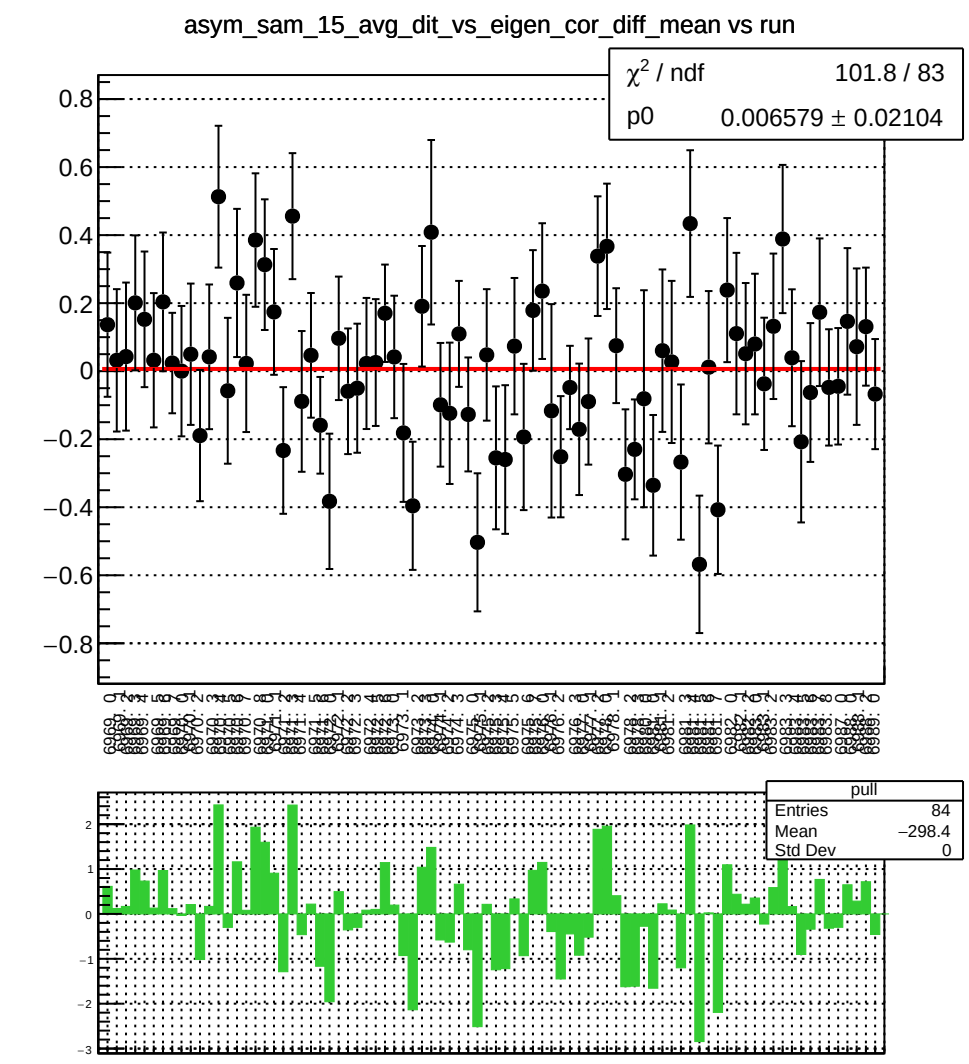

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 83
p0 −2.108e−15 ± 1.211e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 84
Mean −7.706
Std Dev 0
pull1D
Entries 84
Mean 0.05597
Std Dev 1.145

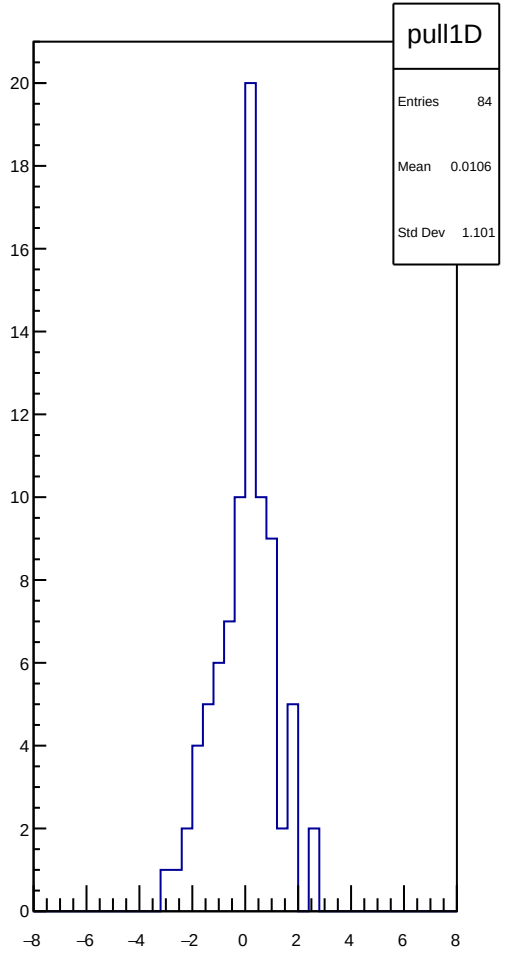

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.209e+06 / 83
p0 5.837e−12 ± 8.56e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

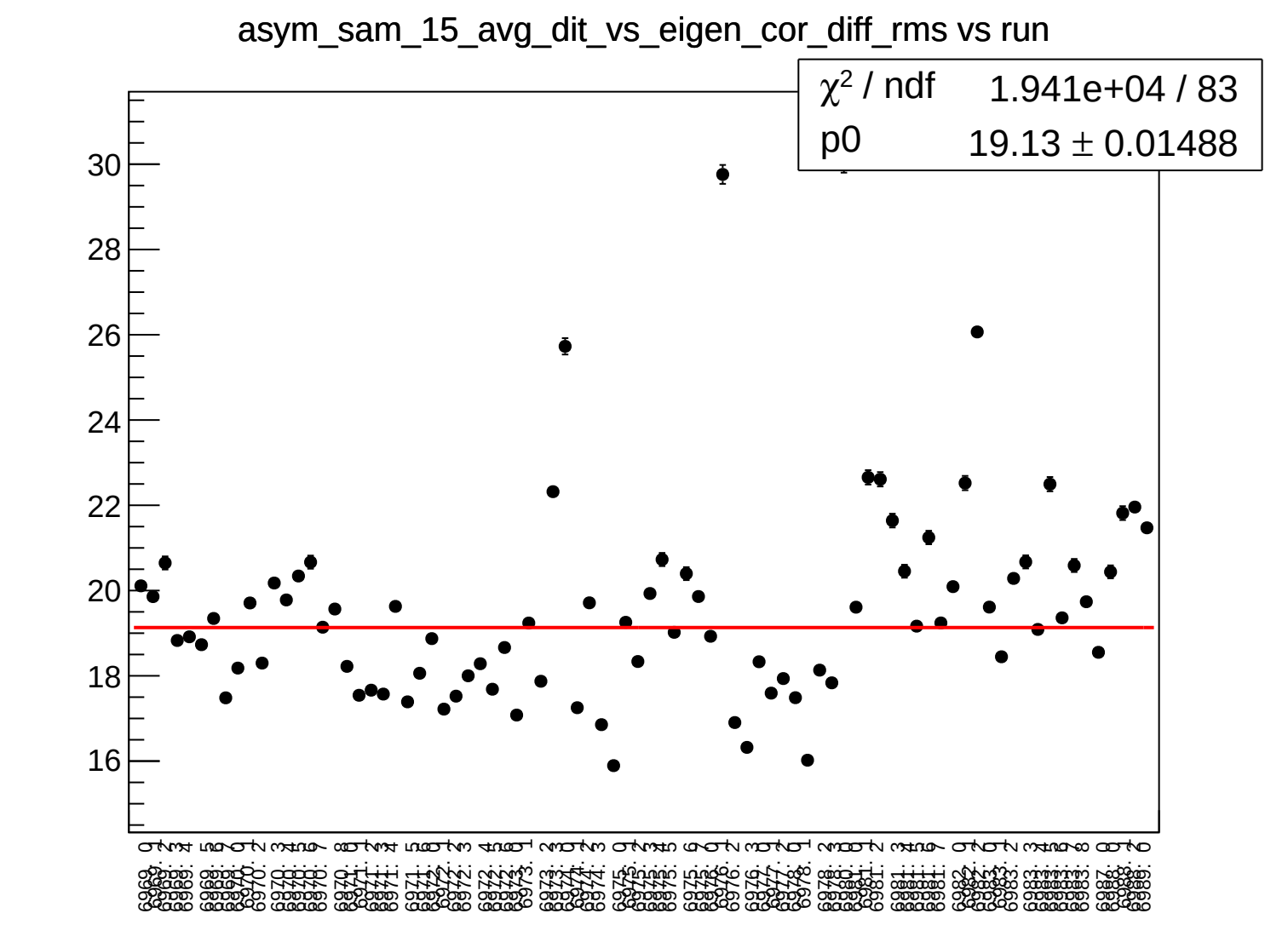

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 83
p0 0.006579 ± 0.02104
pull
Entries 84
Mean −298.4
Std Dev 0

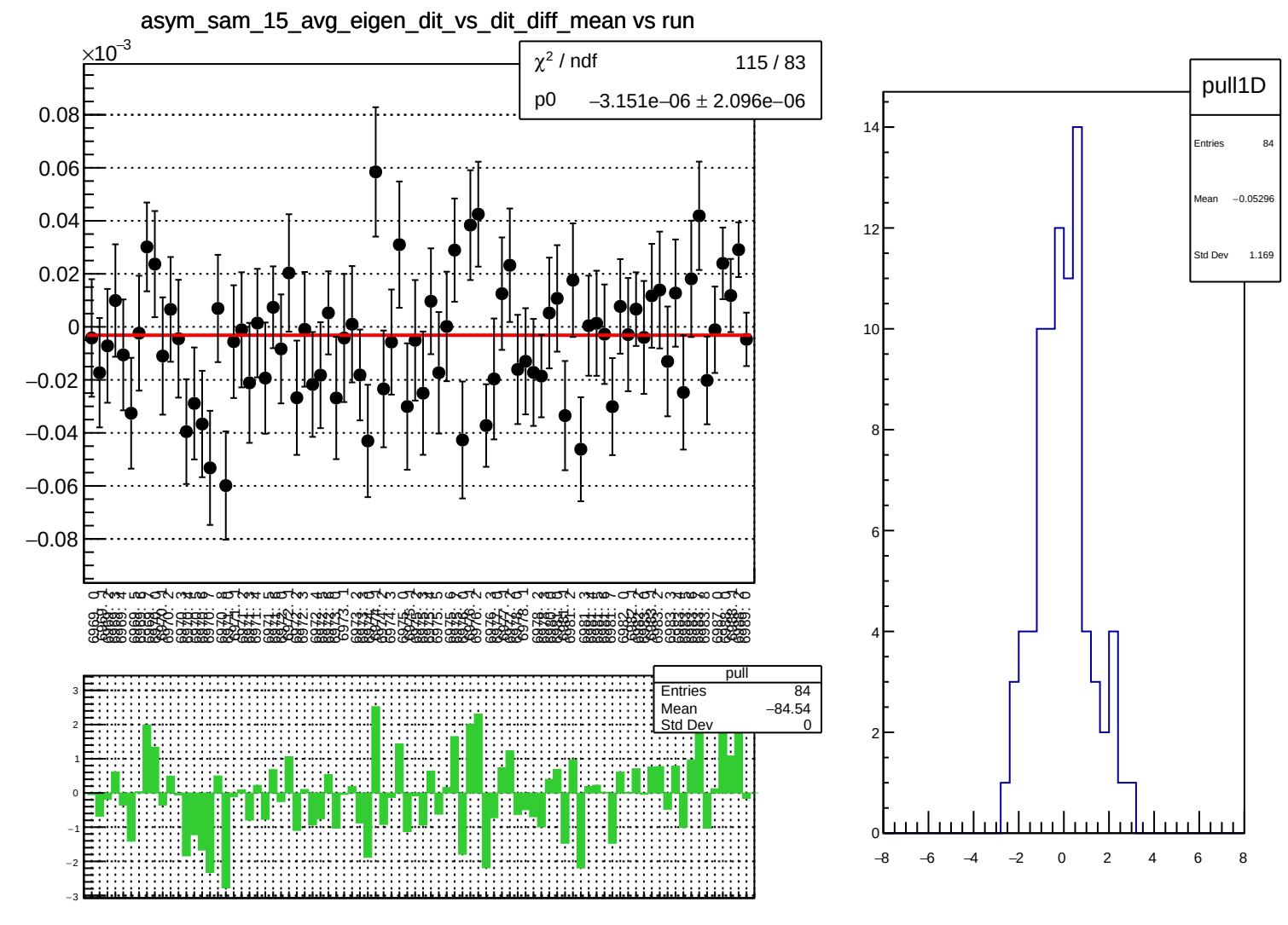

pull1D
Entries 84
Mean 0.0106
Std Dev 1.101

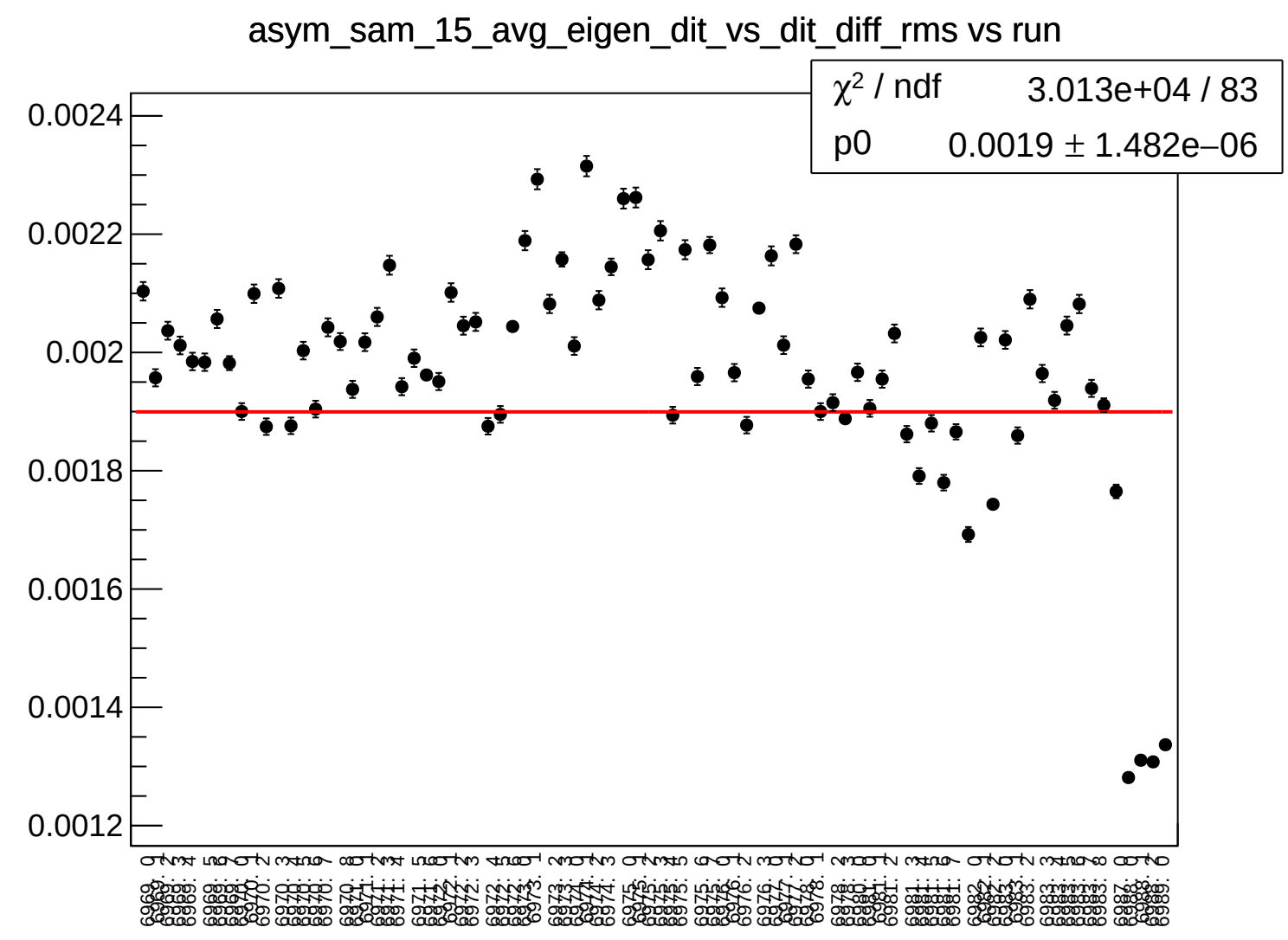

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.941e+04 / 83
p0 19.13 ± 0.01488
30
28
26
24
22
20
18
16

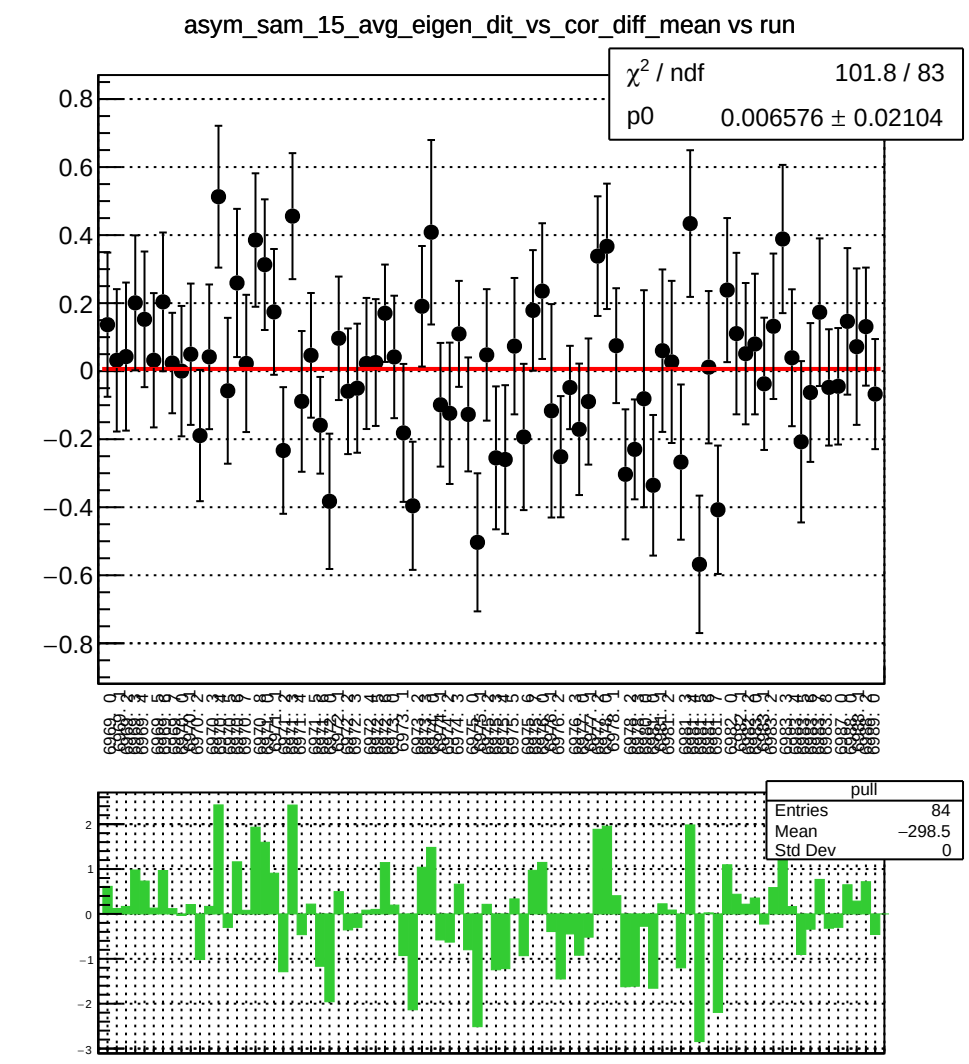

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.8 / 83
p0 0.006579 ± 0.02104
pull
Entries 84
Mean −298.4
Std Dev 0

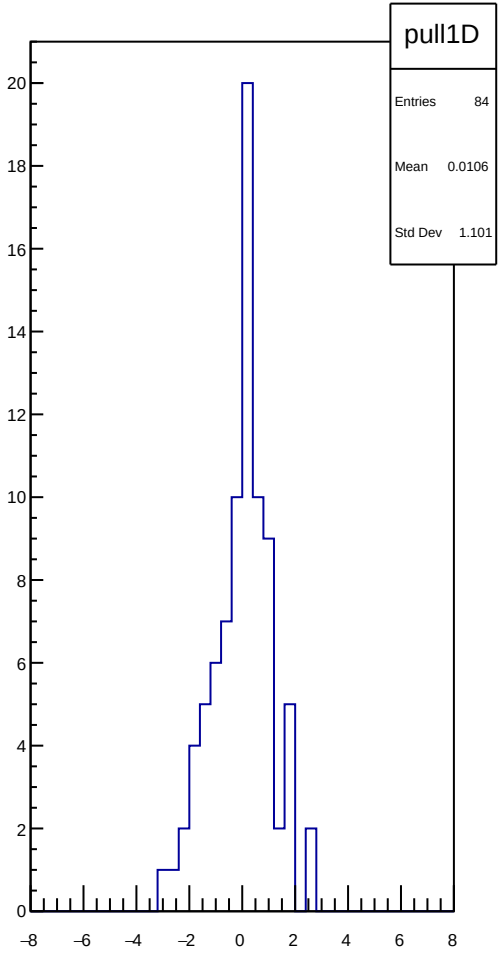

pull1D
Entries 84
Mean 0.0106
Std Dev 1.101

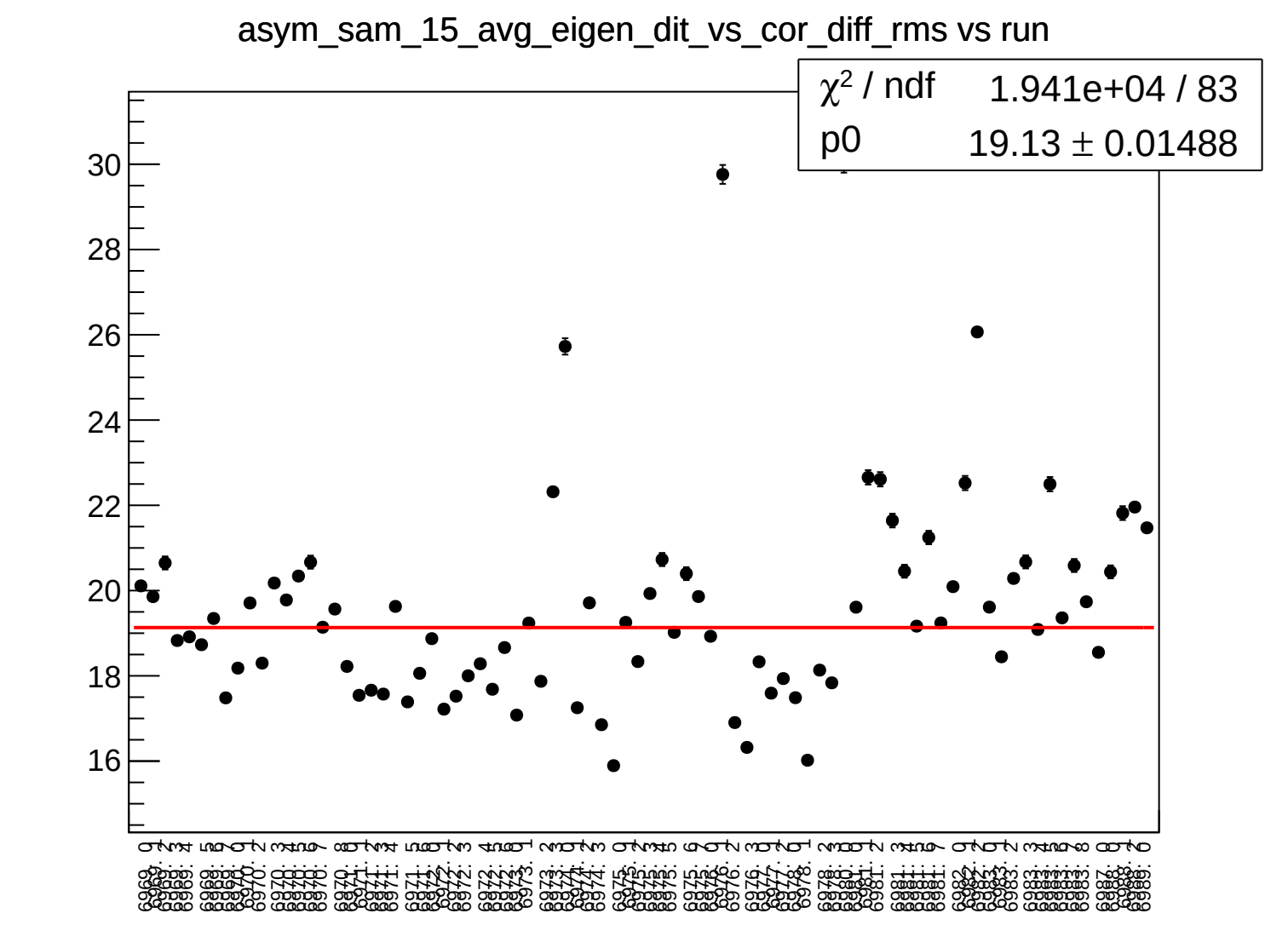

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.941e+04 / 83
p0 19.13 ± 0.01488
30
28
26
24
22
20
18
16

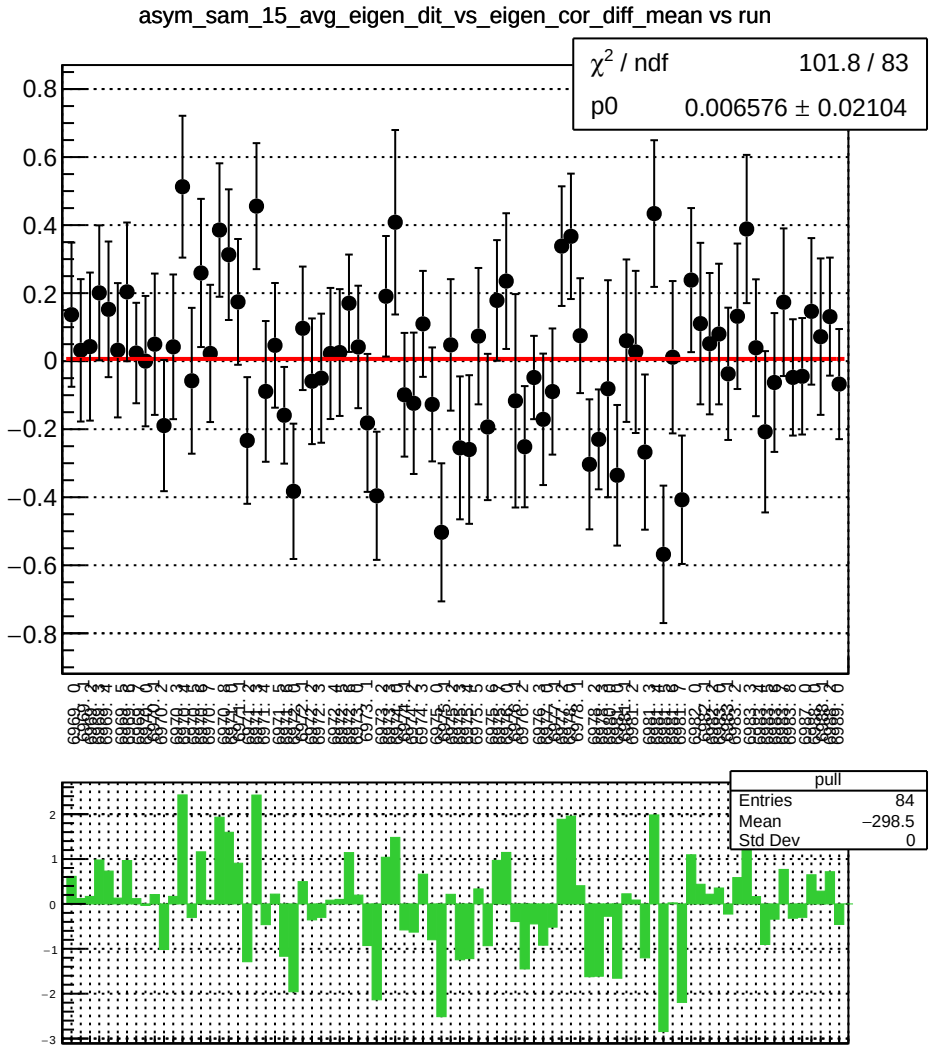

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115 / 83
p0 −3.151e−06 ± 2.096e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean −84.54
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.05296
Std Dev 1.169
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

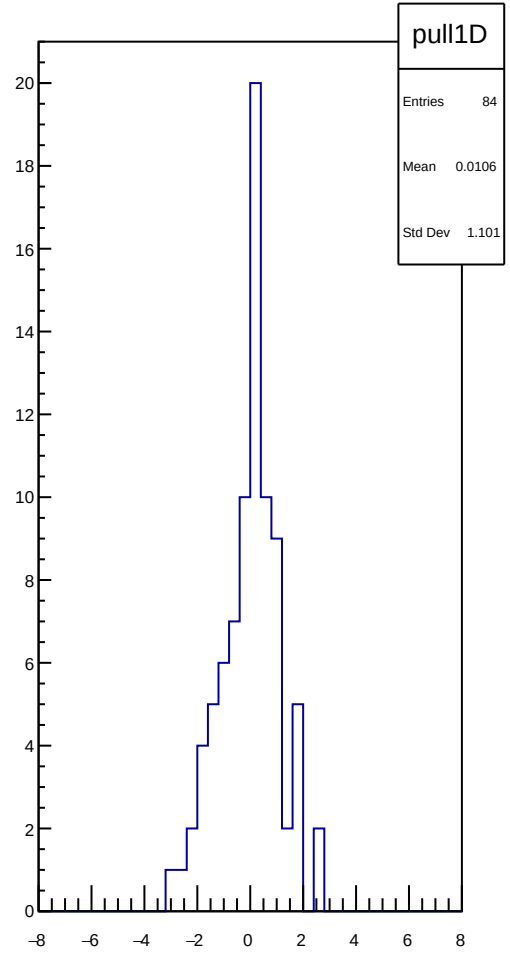

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.013e+04 / 83
p0 0.0019 ± 1.482e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

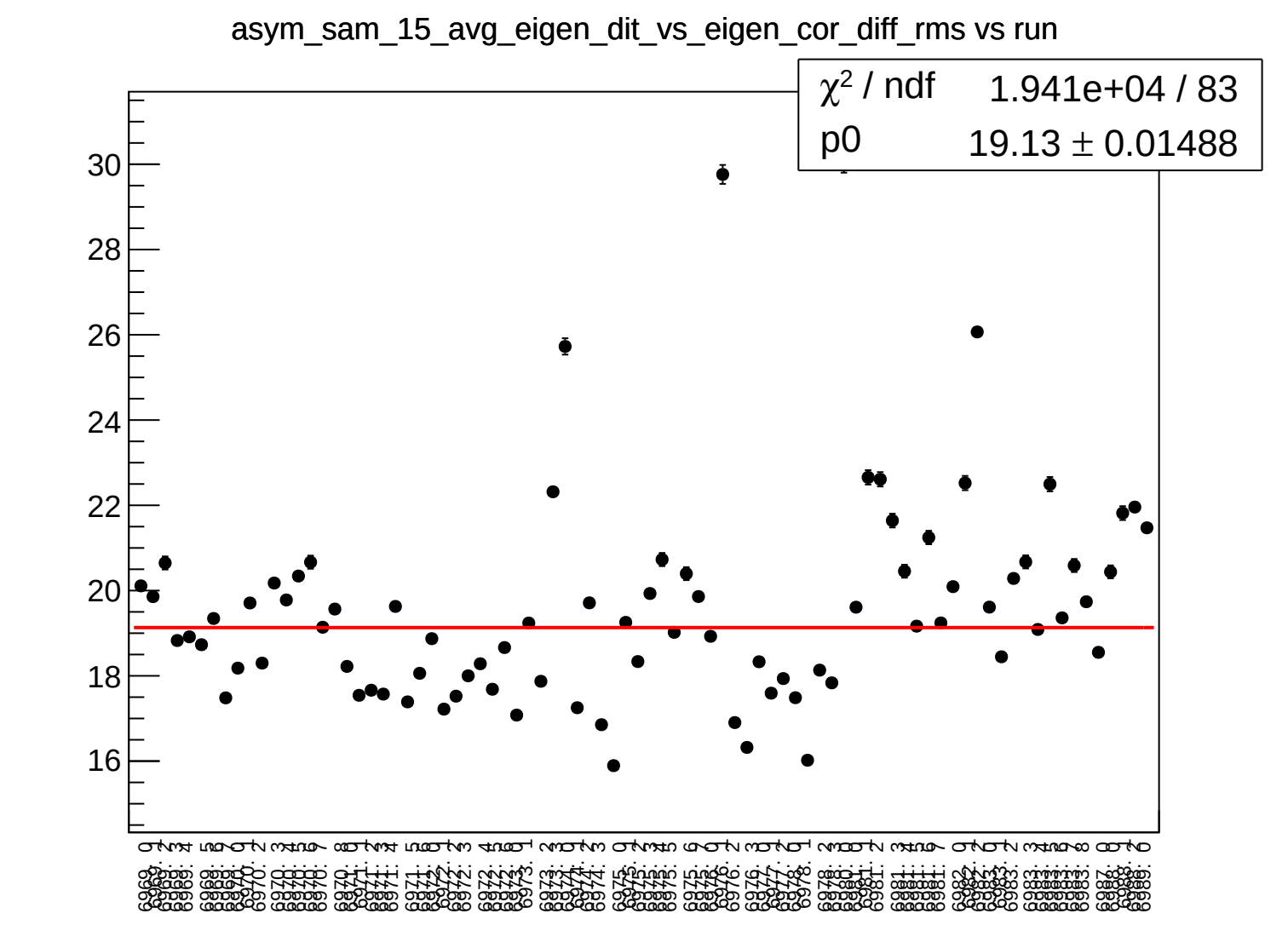

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 83
p0 0.006576 ± 0.02104
pull
Entries 84
Mean −298.5
Std Dev 0

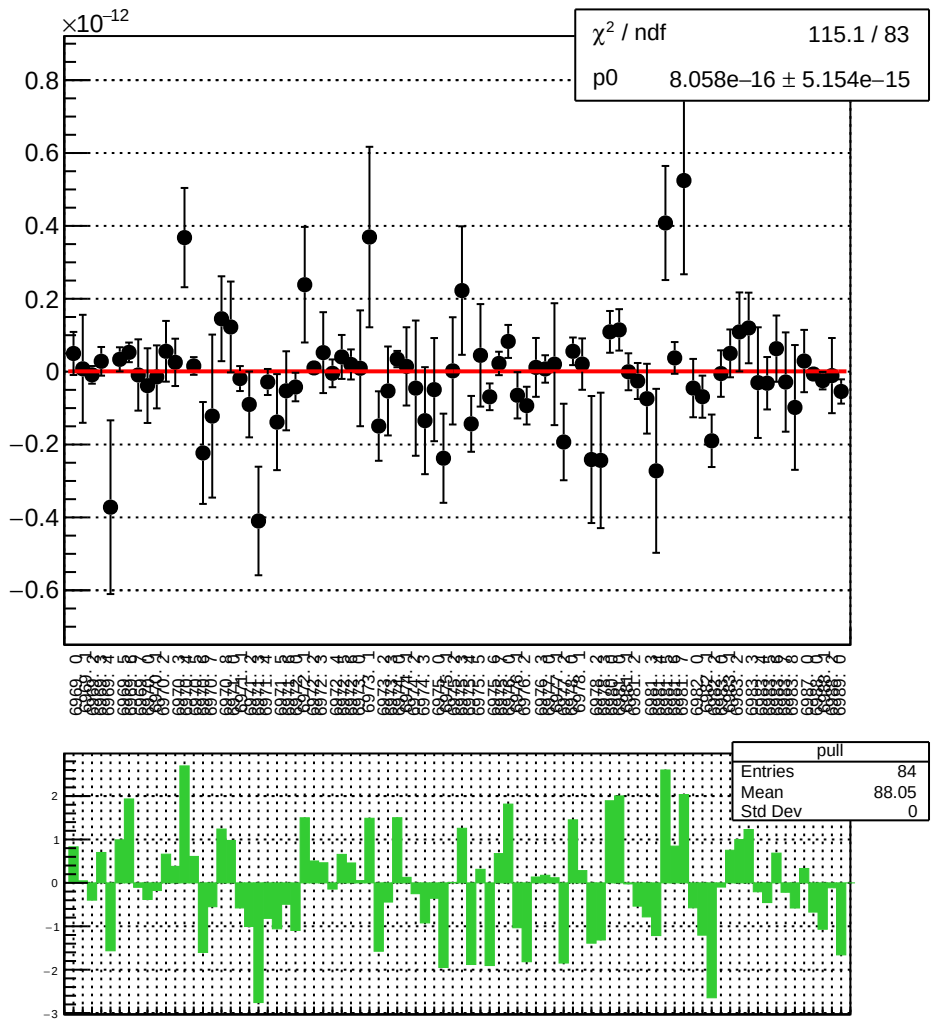

pull1D
Entries 84
Mean 0.0106
Std Dev 1.101

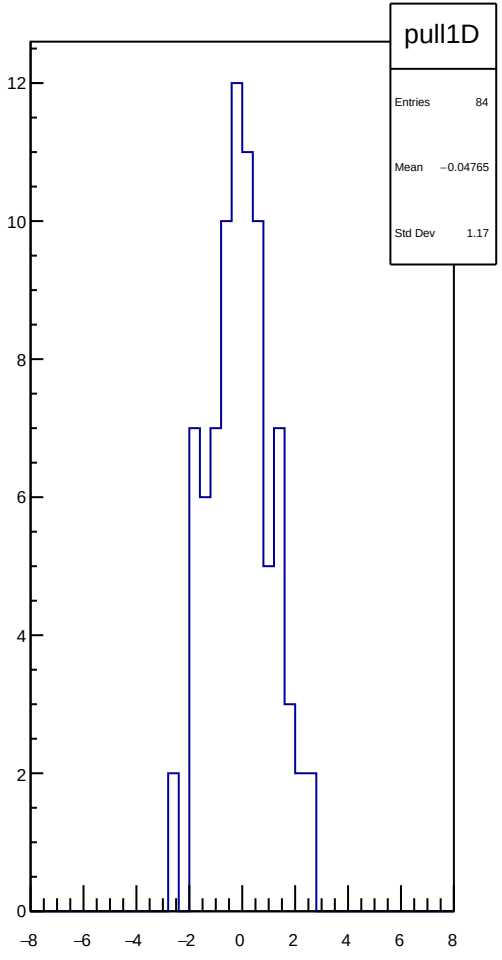

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.941e+04 / 83
p0 19.13 ± 0.01488
30
28
26
24
22
20
18
16

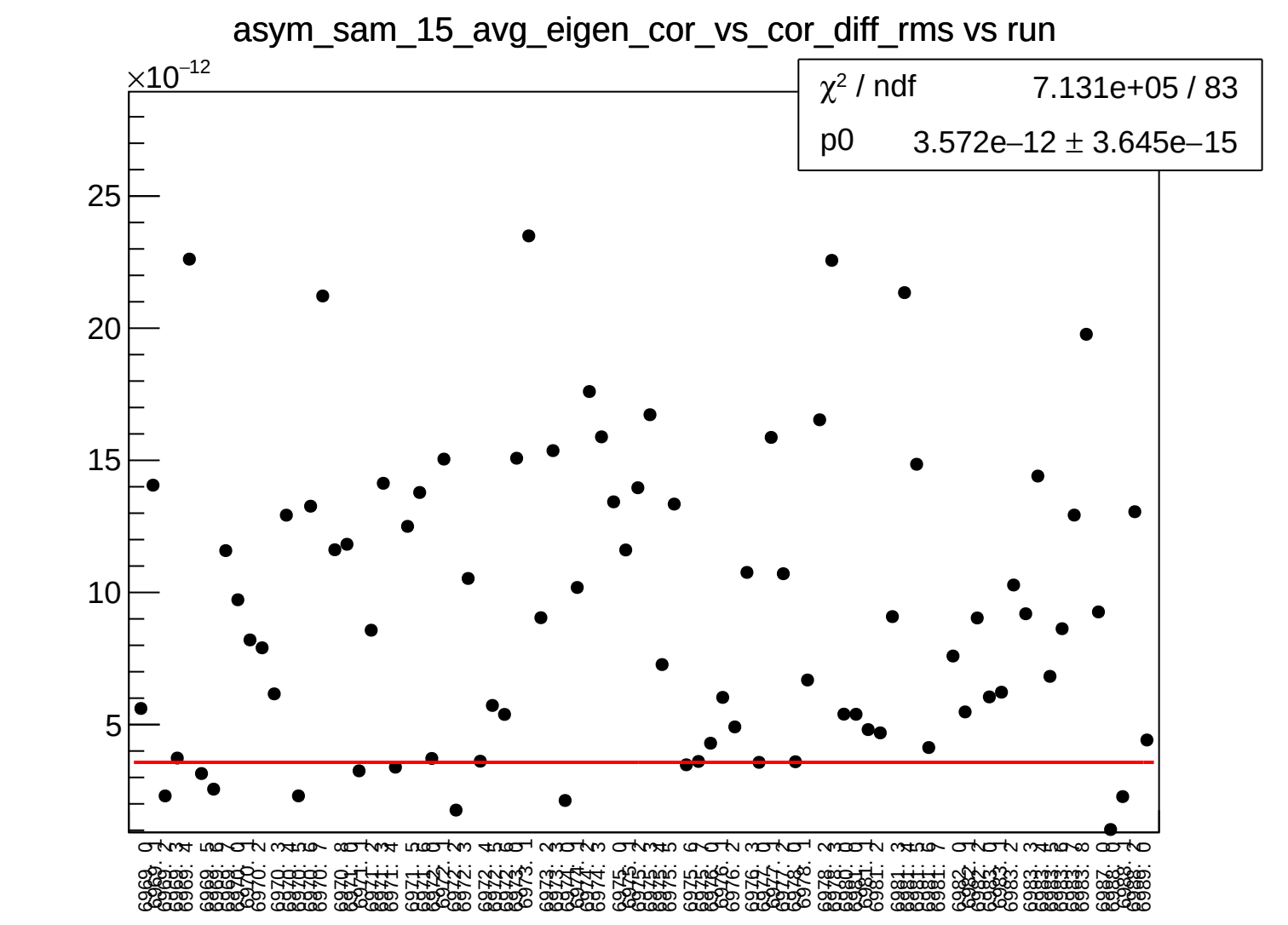

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.8 / 83
p0 0.006576 ± 0.02104
pull
Entries 84
Mean −298.5
Std Dev 0

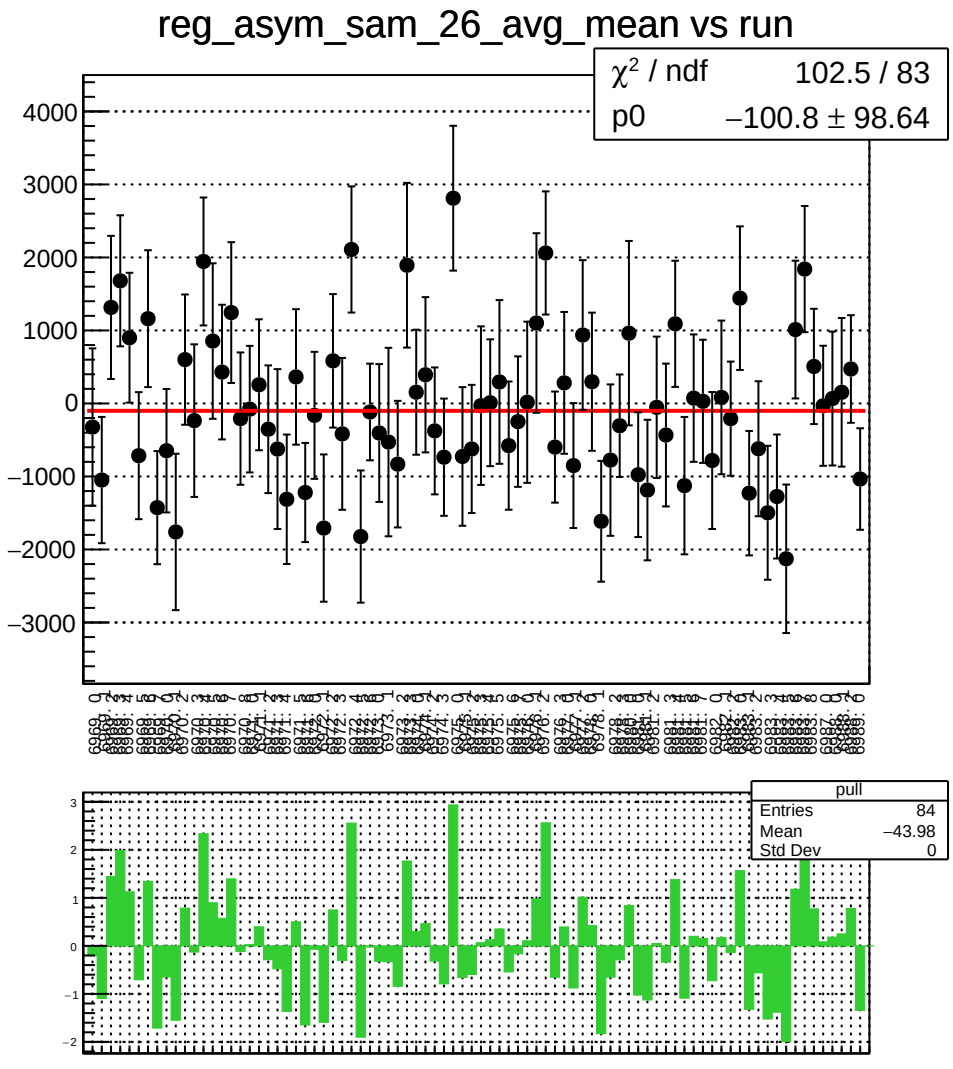

pull1D
Entries 84
Mean 0.0106
Std Dev 1.101

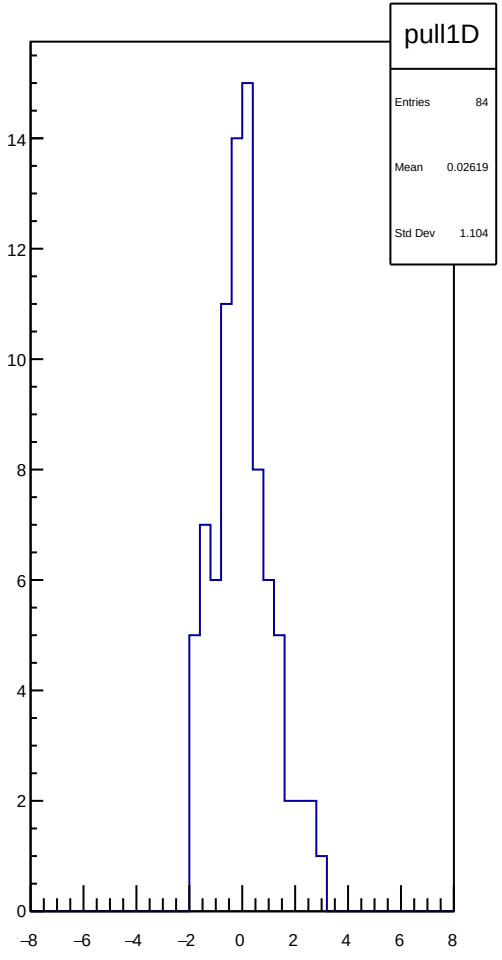

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.941e+04 / 83
p0 19.13 ± 0.01488
30
28
26
24
22
20
18
16

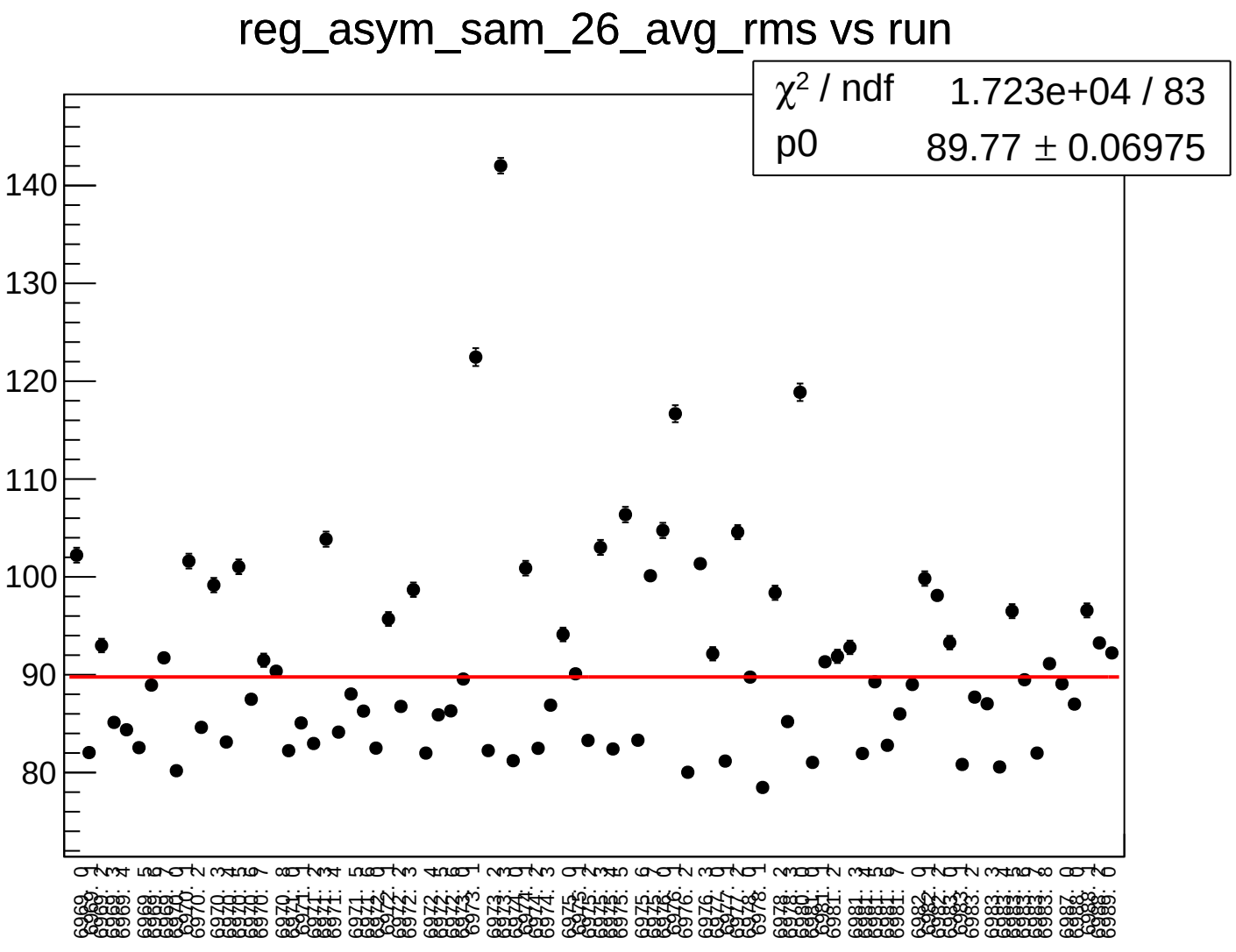

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.1 / 83
p0 8.058e−16 ± 5.154e−15
pull
Entries 84
Mean 88.05
Std Dev 0

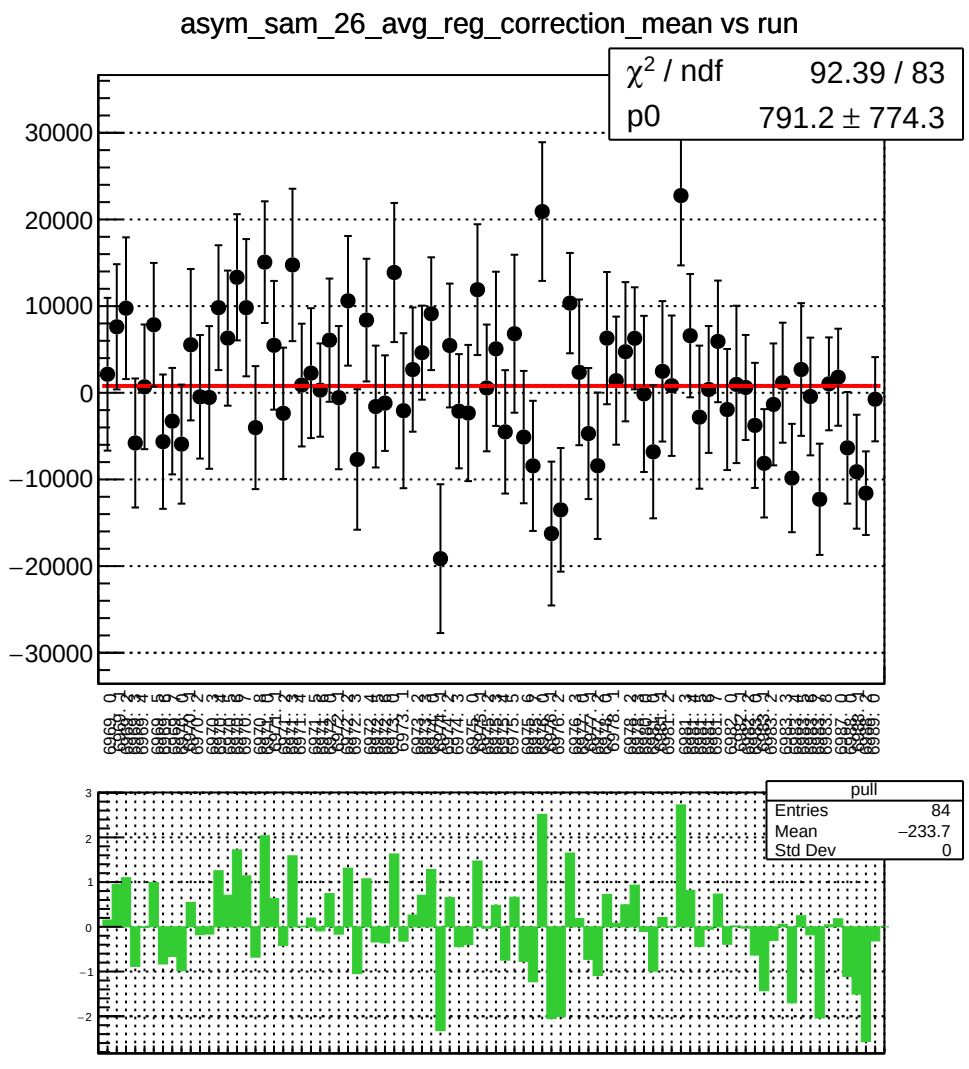

pull1D
Entries 84
Mean −0.04765
Std Dev 1.17

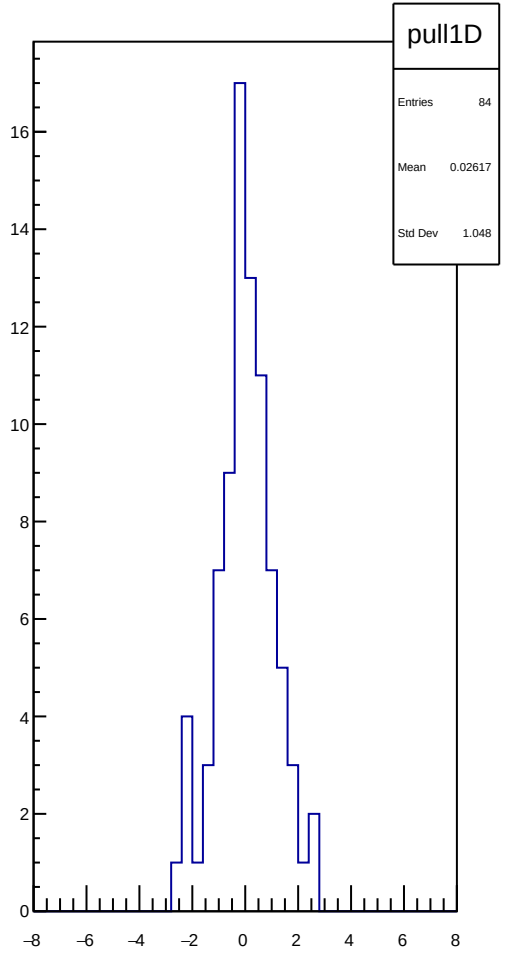

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.131e+05 / 83
p0 3.572e−12 ± 3.645e−15
25
20
15
10
5

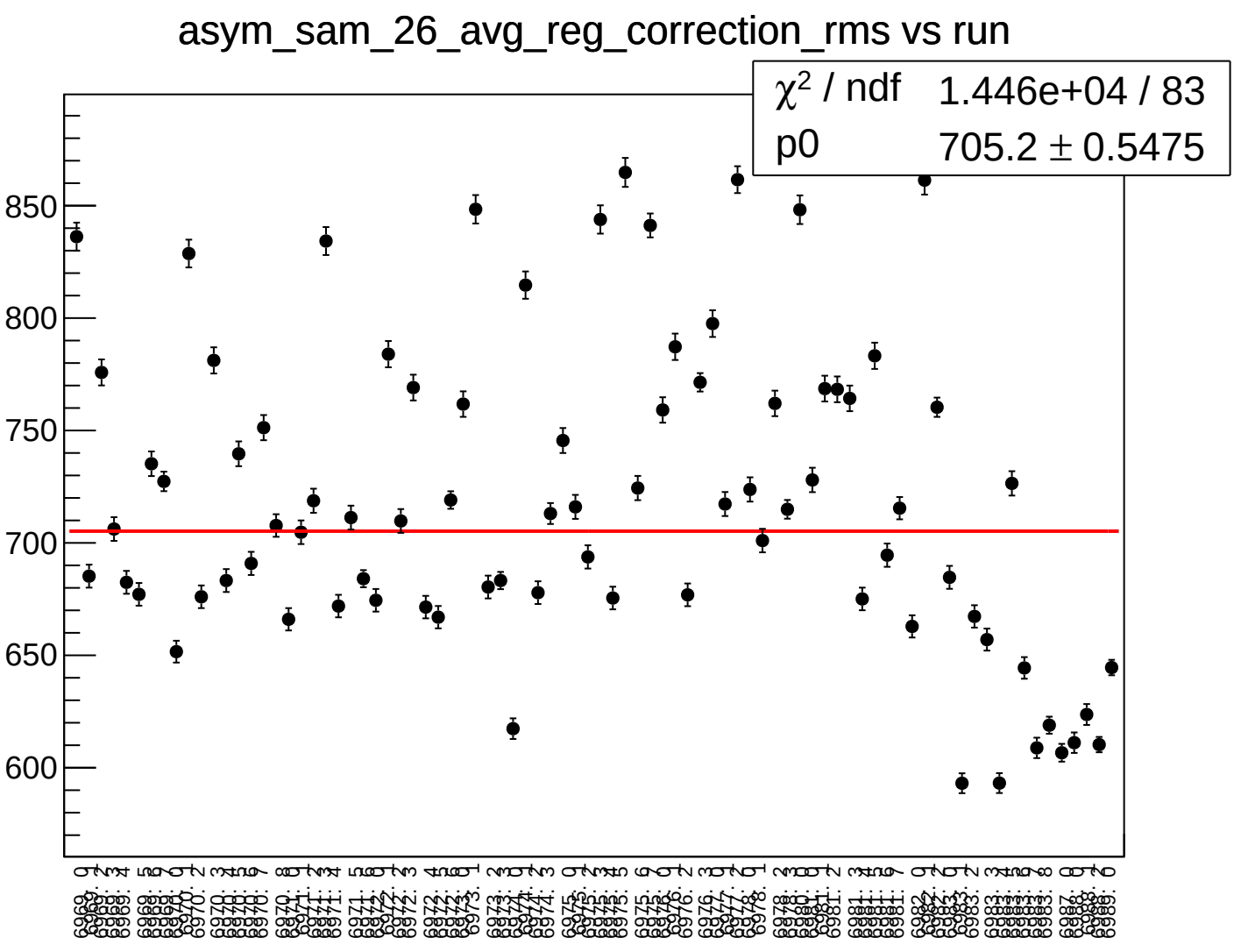

reg_asym_sam_26_avg_mean vs run
χ² / ndf 102.5 / 83
p0 −100.8 ± 98.64
pull
Entries 84
Mean −43.98
Std Dev 0

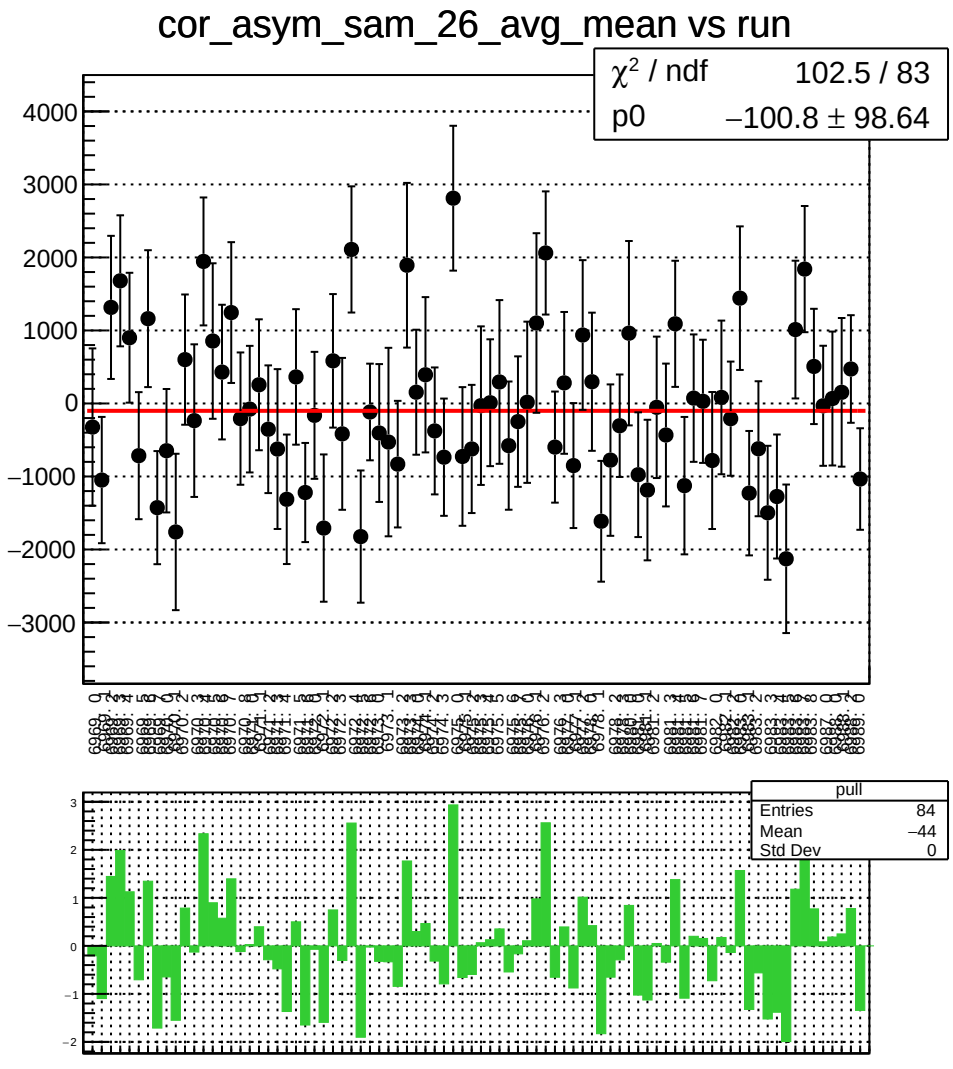

pull1D
Entries 84
Mean 0.02619
Std Dev 1.104

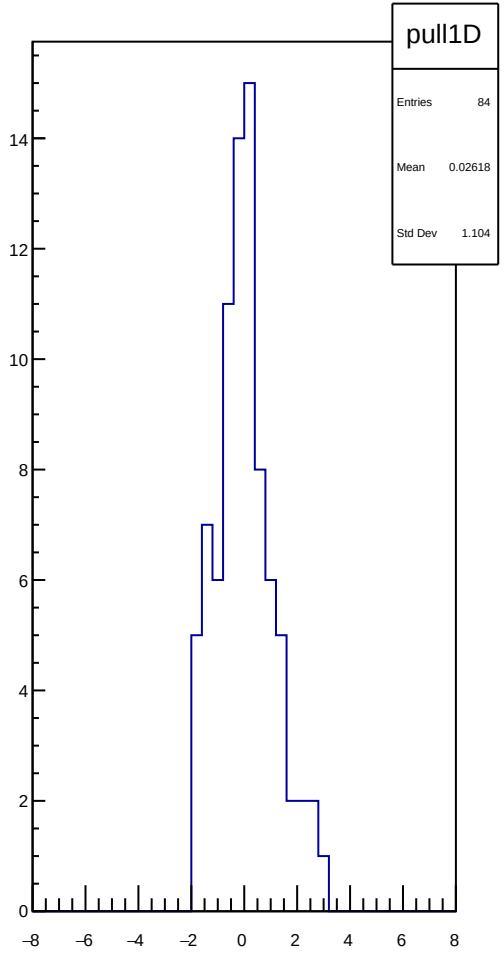

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.723e+04 / 83
p0 89.77 ± 0.06975
140
130
120
110
100
90
80

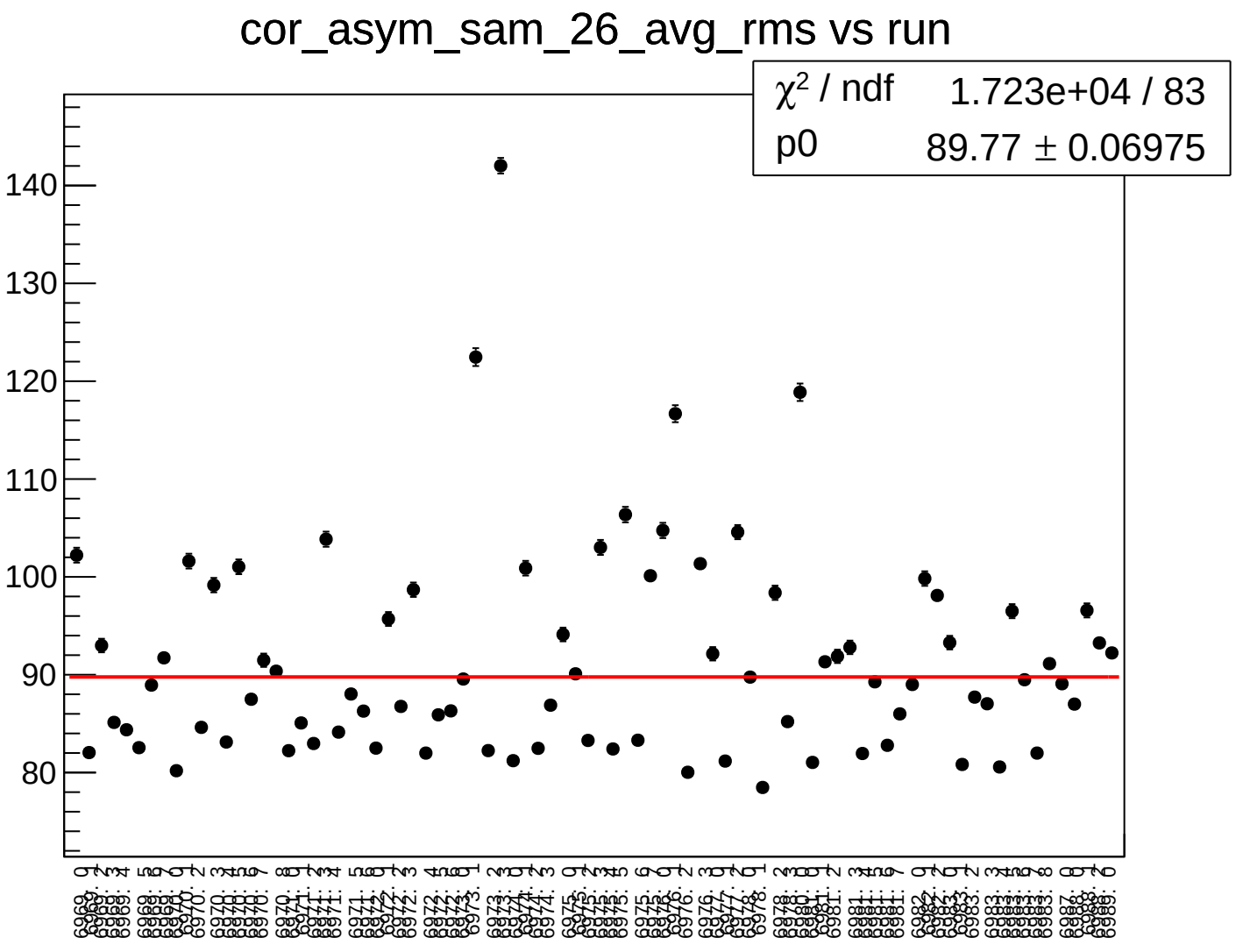

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 92.39 / 83
p0 791.2 ± 774.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −233.7
Std Dev 0
3
2
1
0
−1
−2

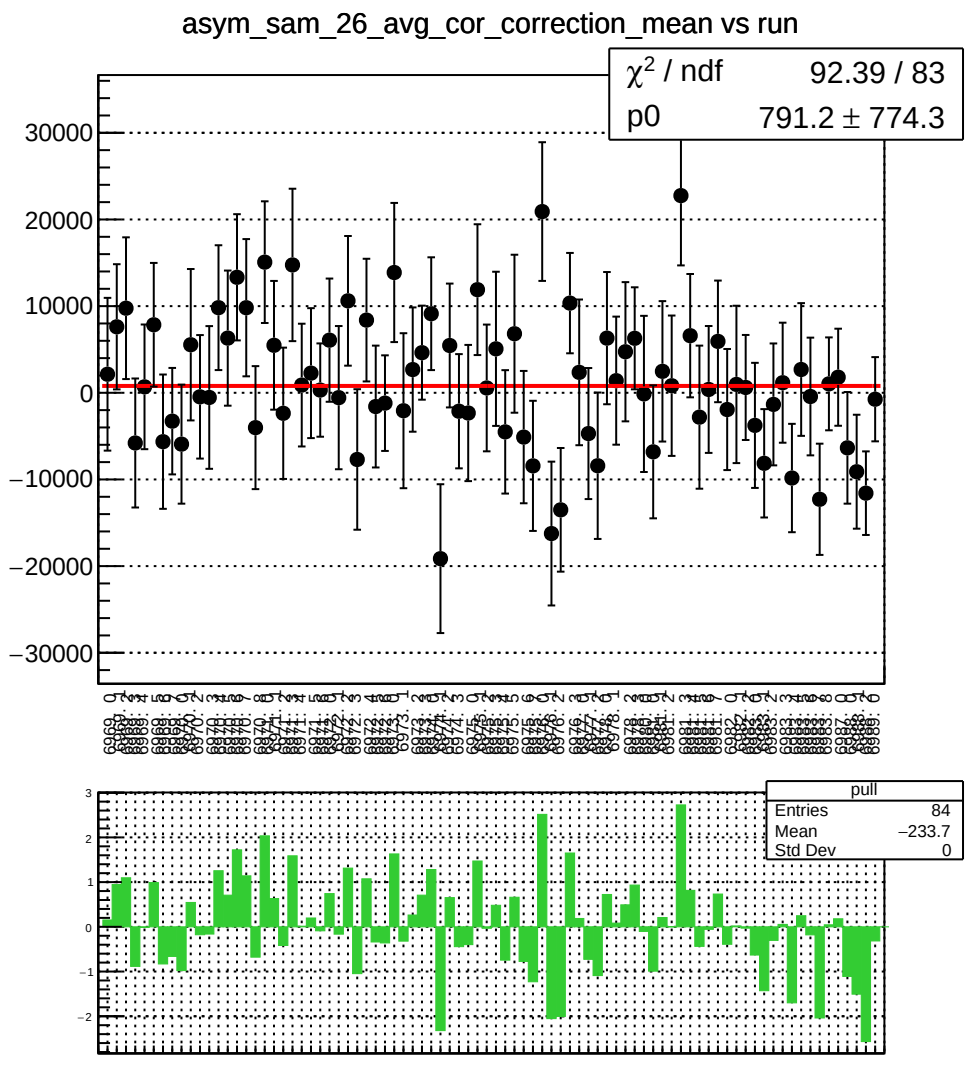

pull1D
Entries 84
Mean 0.02617
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

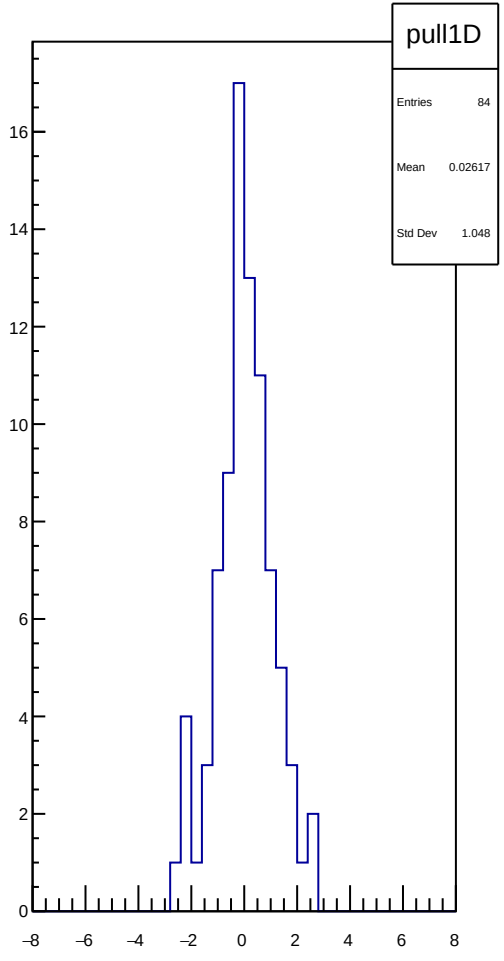

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.446e+04 / 83
p0 705.2 ± 0.5475
850
800
750
700
650
600

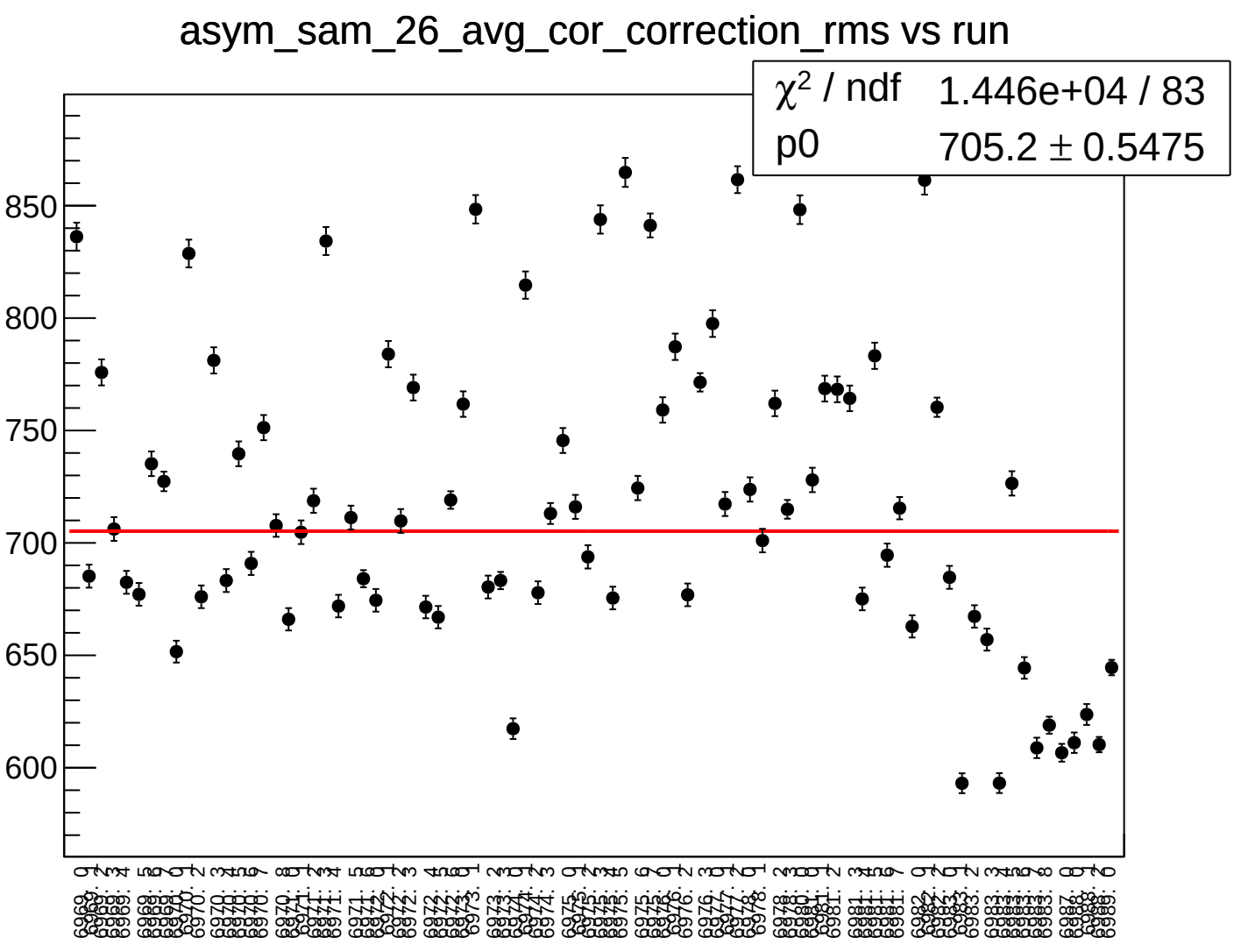

cor_asym_sam_26_avg_mean vs run
χ² / ndf 102.5 / 83
p0 −100.8 ± 98.64
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −44
Std Dev 0
3
2
1
0
−1
−2

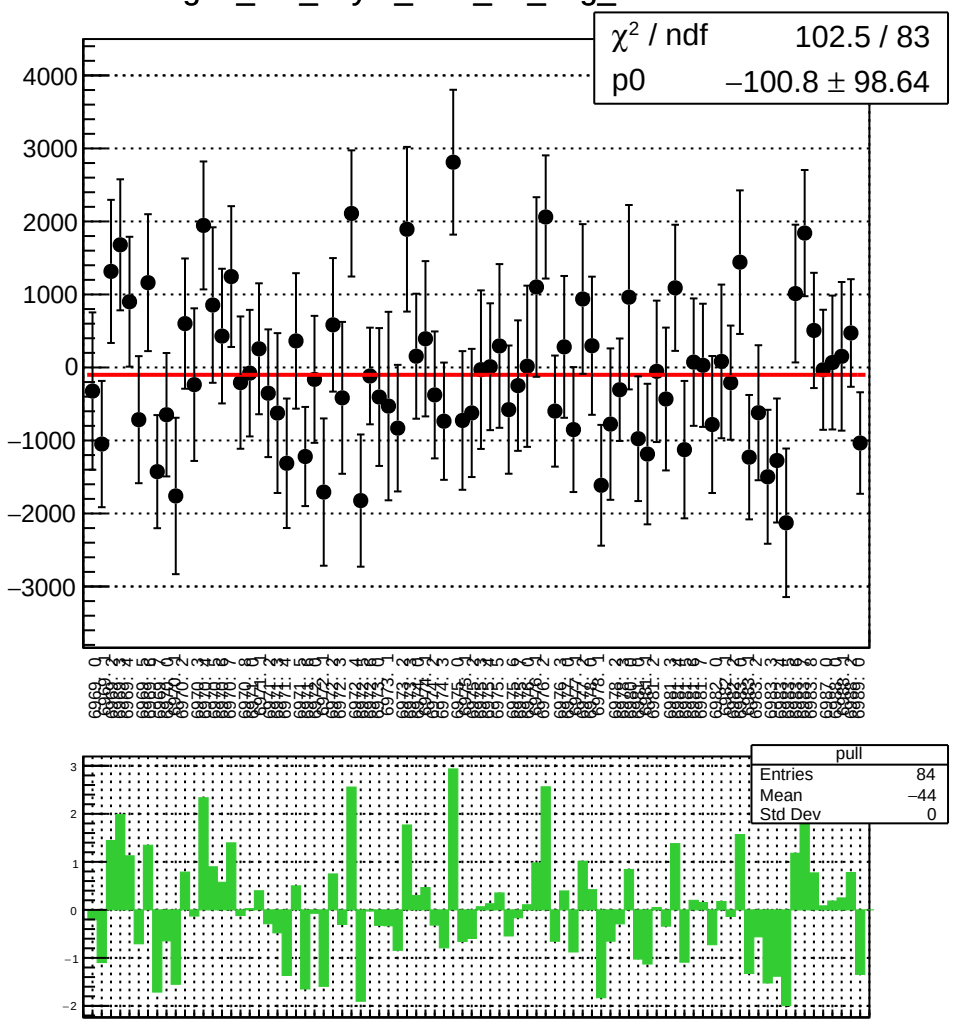

pull1D
Entries 84
Mean 0.02618
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

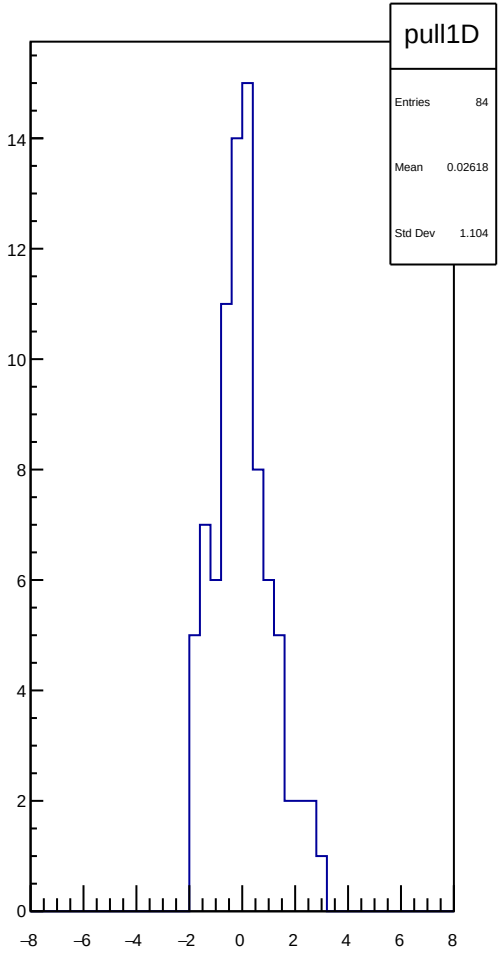

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.723e+04 / 83
p0 89.77 ± 0.06975
140
130
120
110
100
90
80

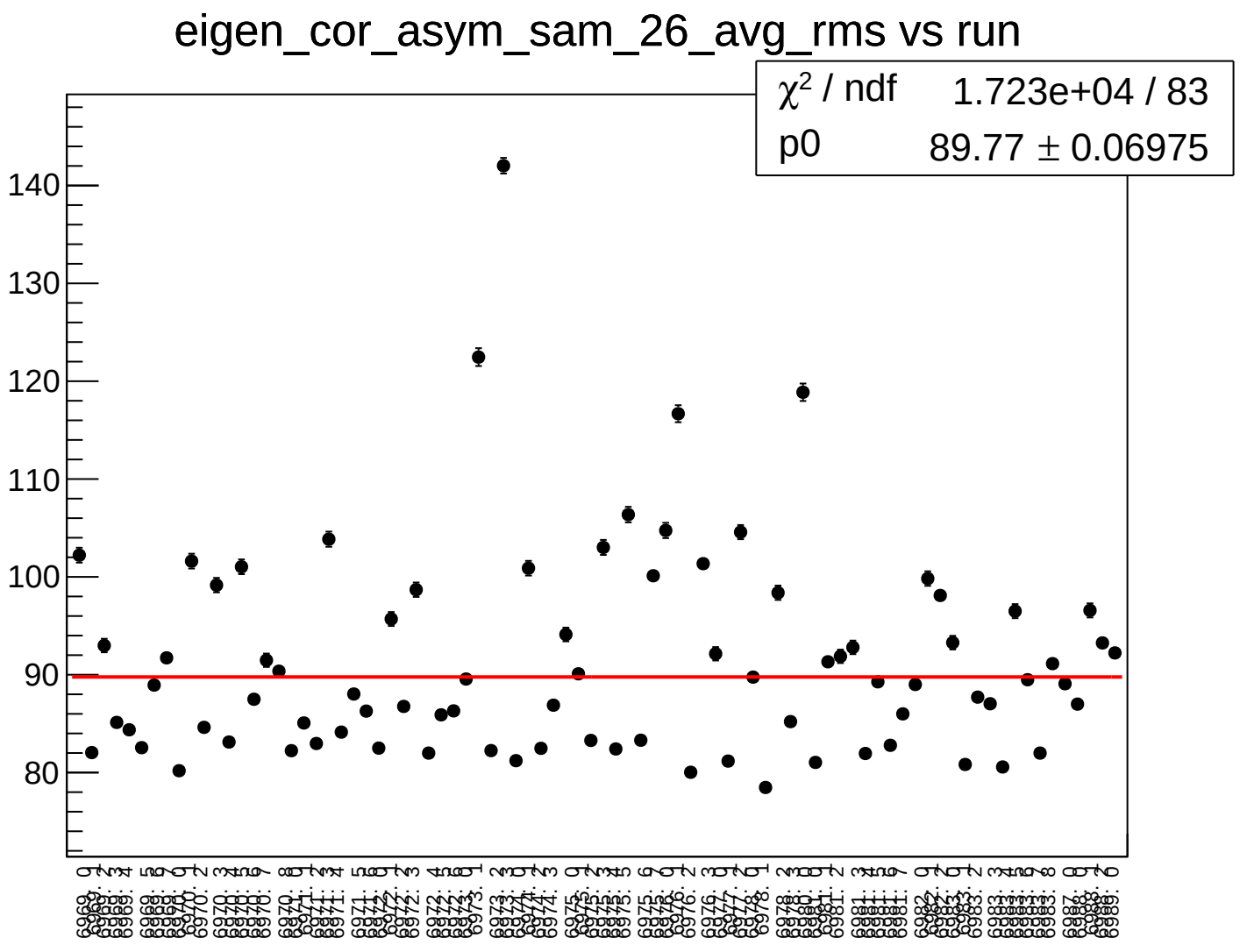

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 92.39 / 83
p0 791.2 ± 774.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −233.7
Std Dev 0
3
2
1
0
−1
−2

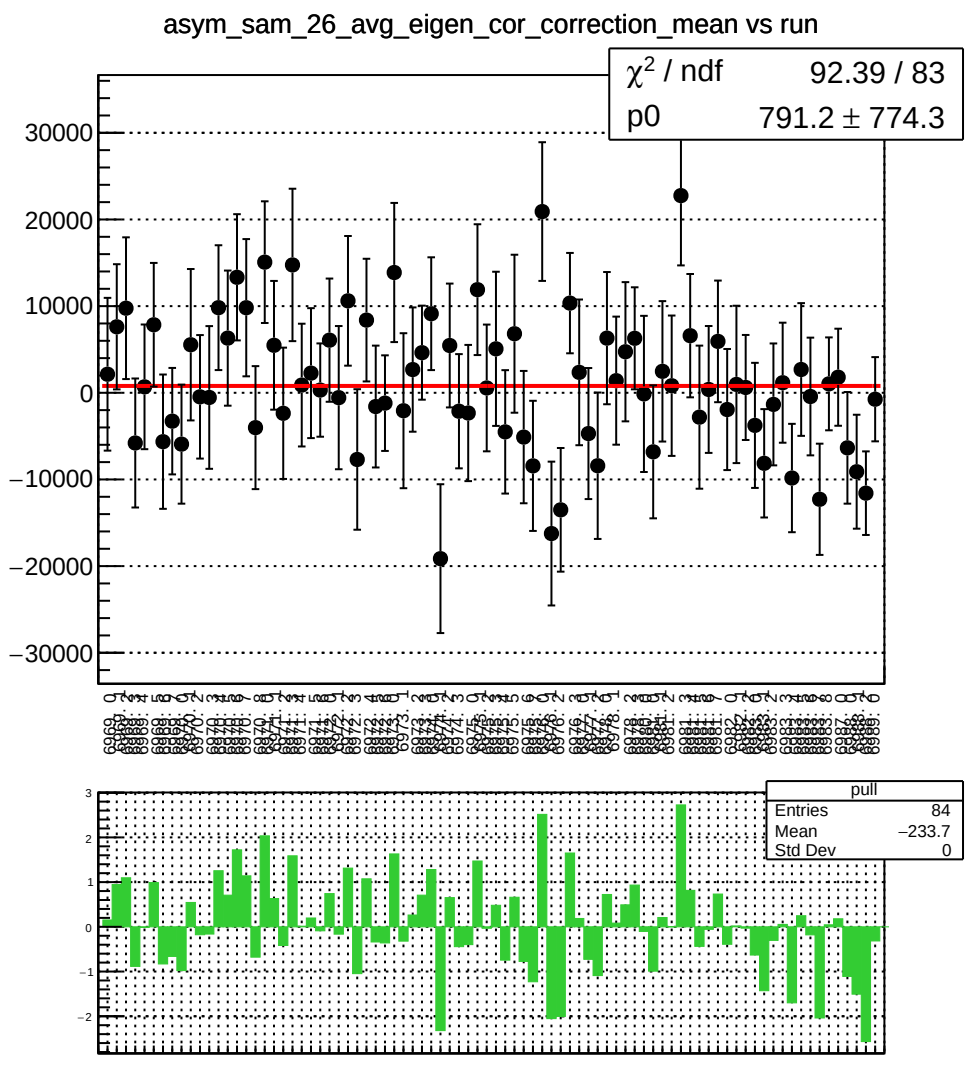

pull1D
Entries 84
Mean 0.02617
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

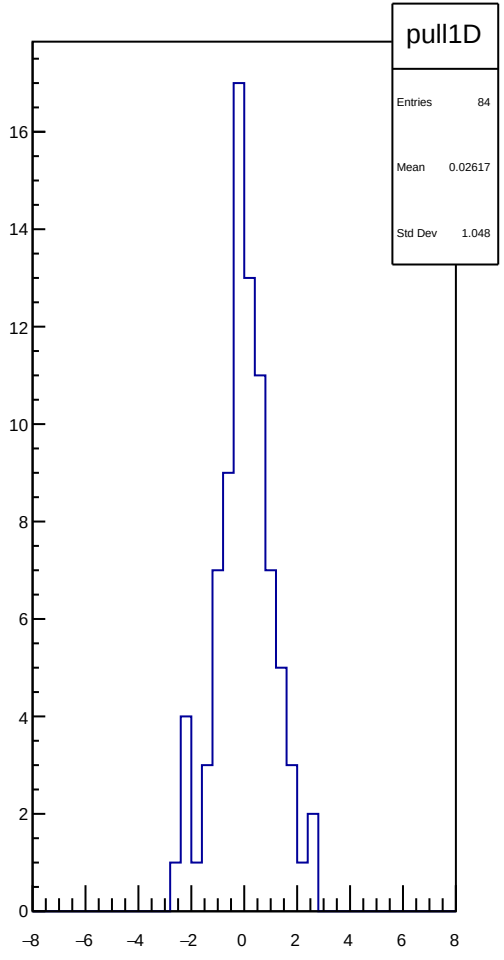

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.446e+04 / 83
p0 705.2 ± 0.5475
850
800
750
700
650
600

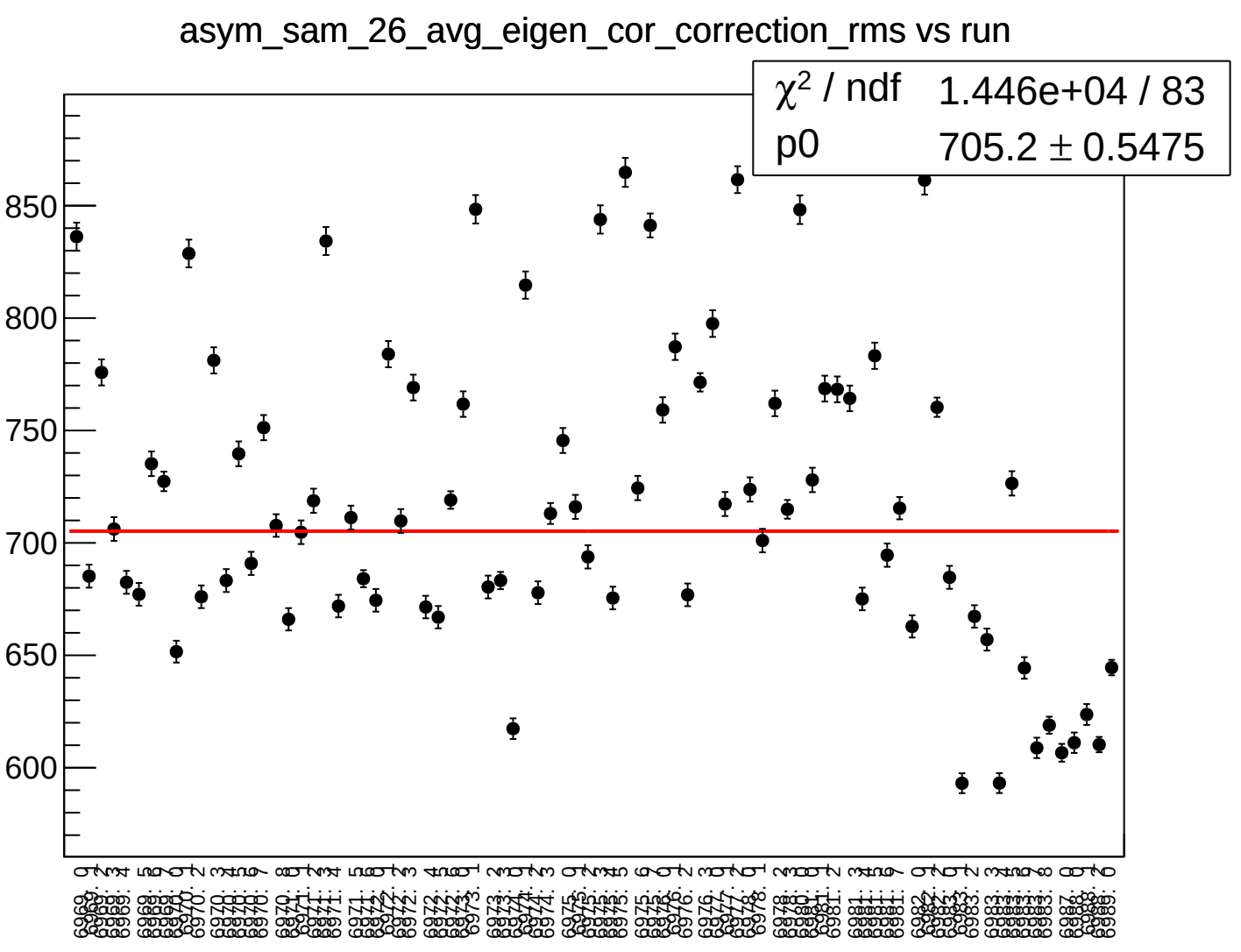

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 102.5 / 83
p0 −100.8 ± 98.64
pull
Entries 84
Mean −44
Std Dev 0

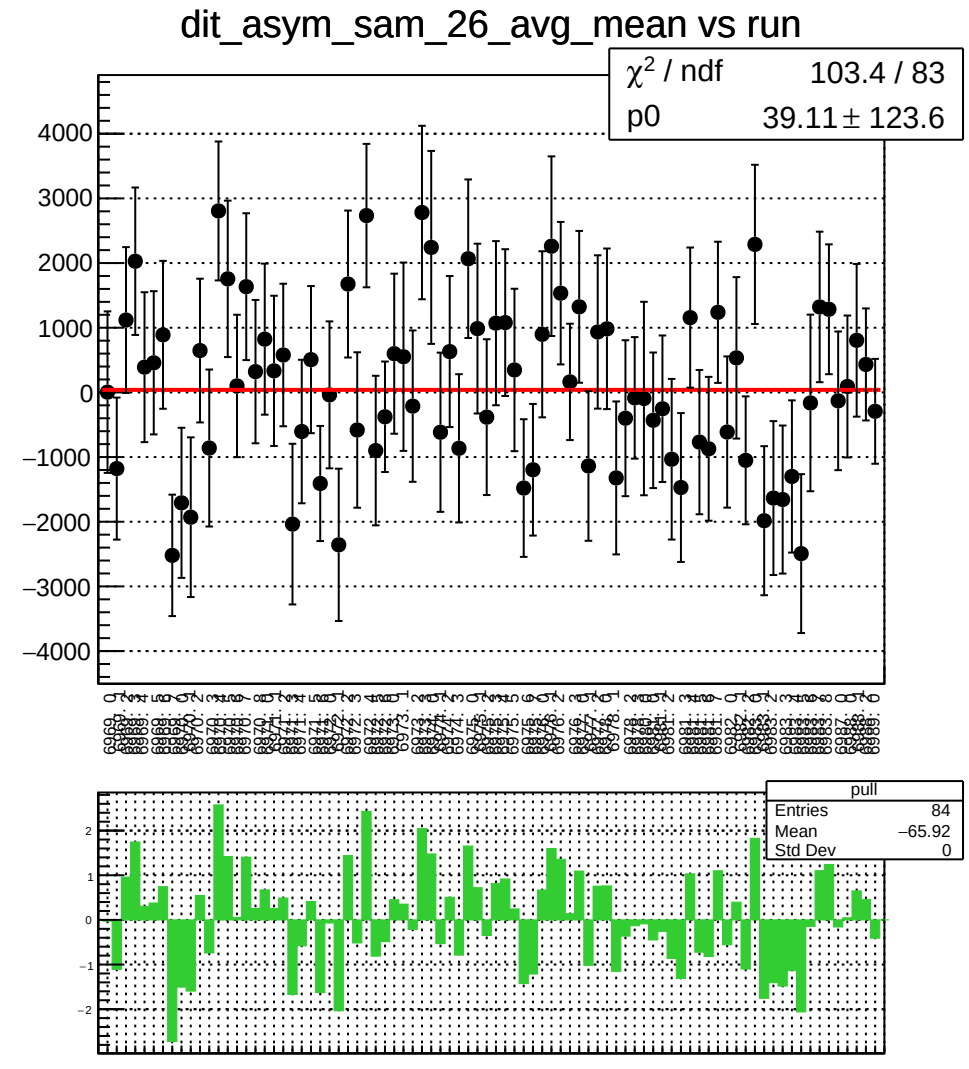

pull1D
Entries 84
Mean 0.02618
Std Dev 1.104

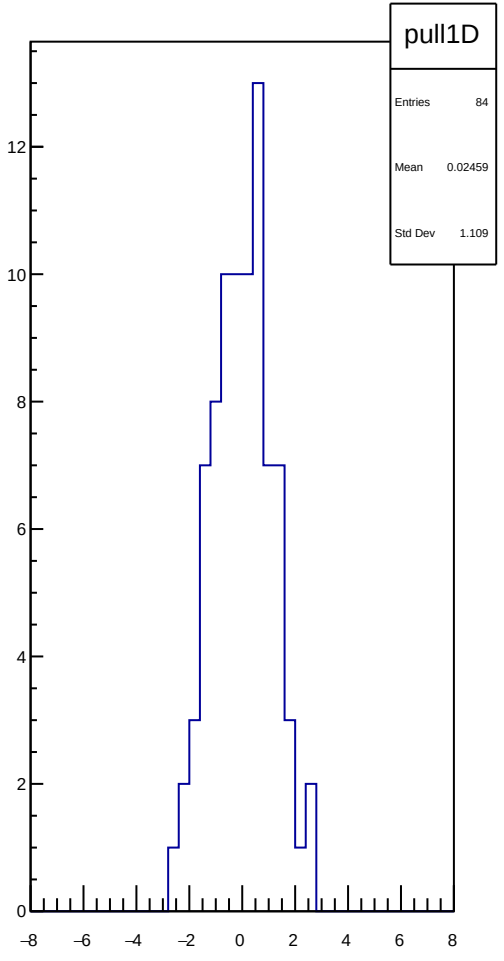

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.723e+04 / 83
p0 89.77 ± 0.06975
140
130
120
110
100
90
80

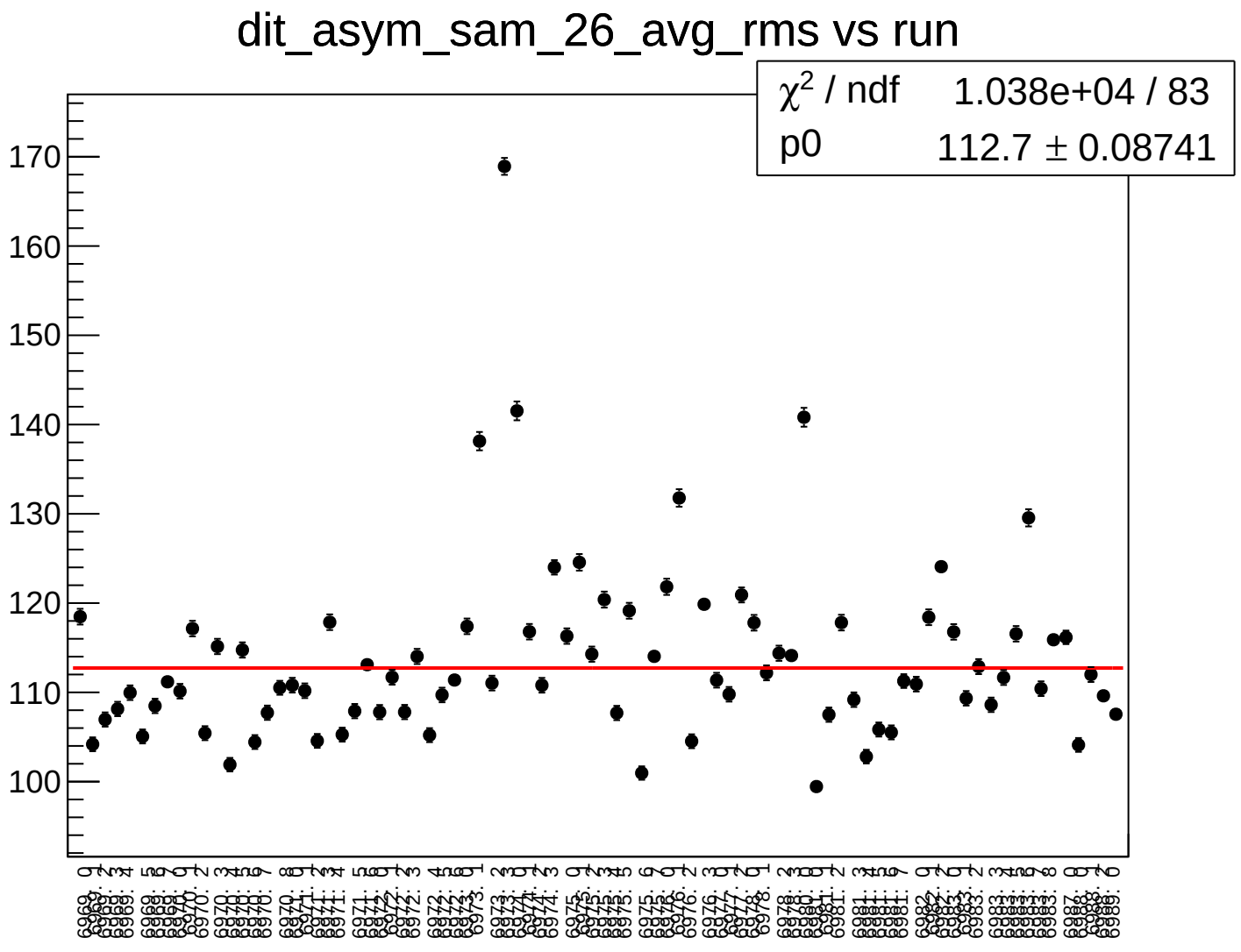

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.39 / 83
p0 791.2 ± 774.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −233.7
Std Dev 0
3
2
1
0
−1
−2

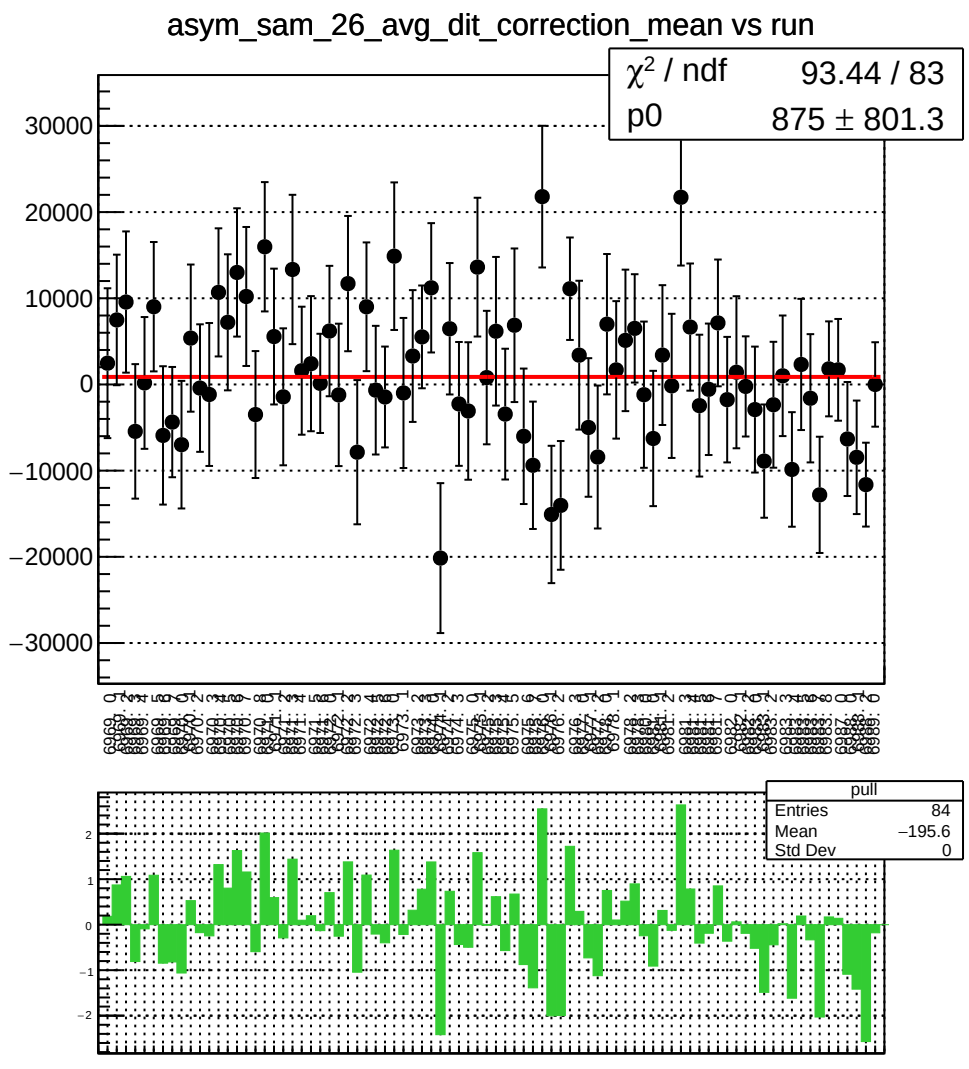

pull1D
Entries 84
Mean 0.02617
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

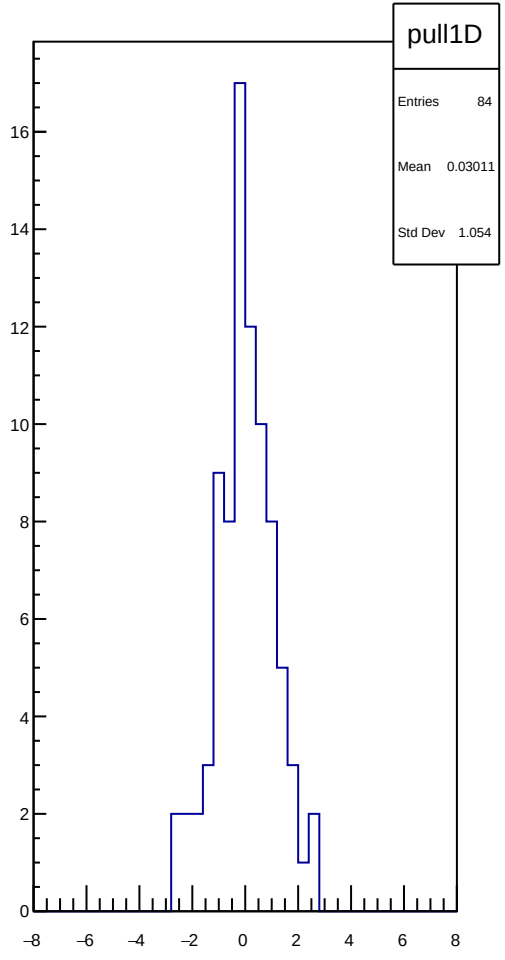

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.446e+04 / 83
p0 705.2 ± 0.5475
850
800
750
700
650
600

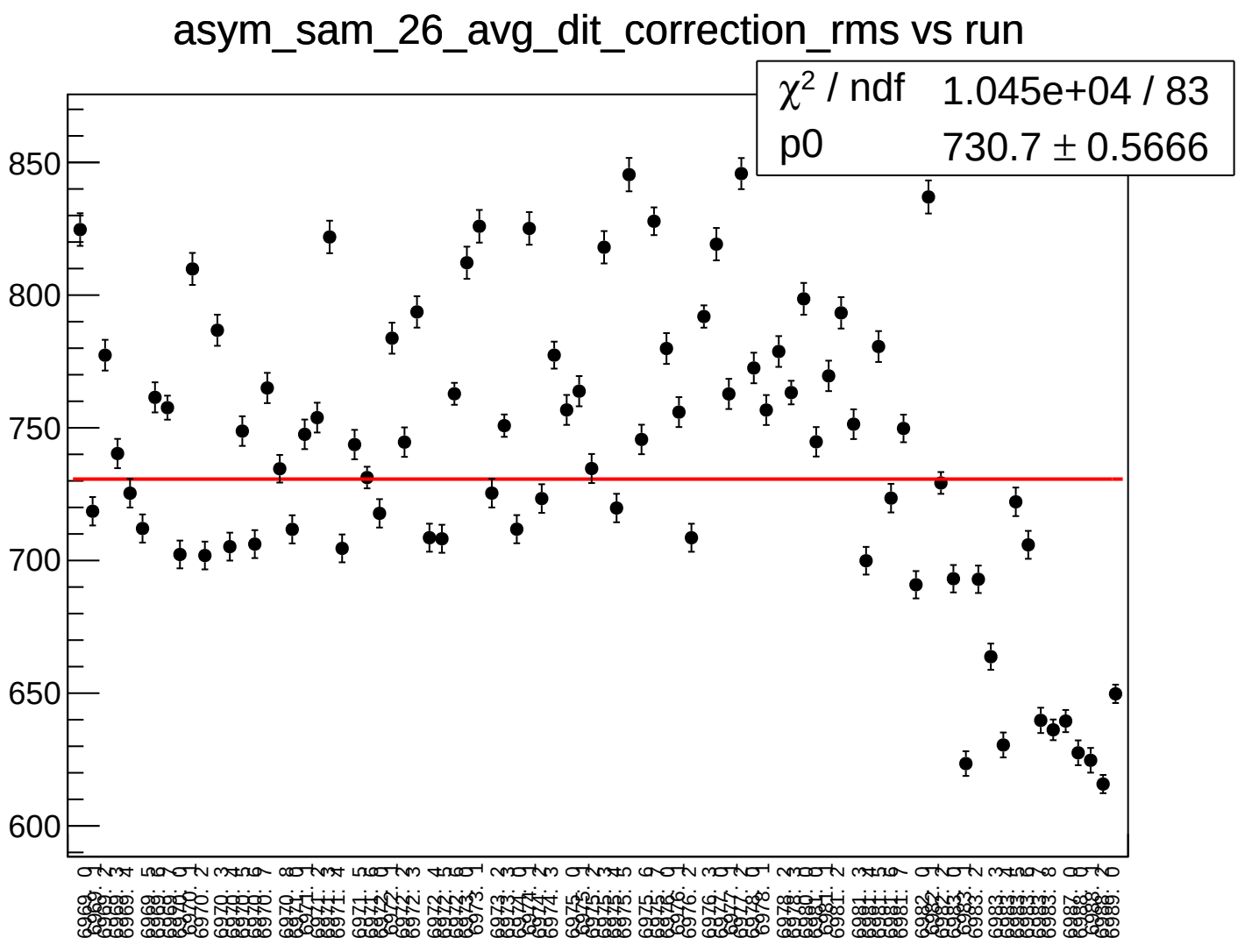

dit_asym_sam_26_avg_mean vs run
χ² / ndf 103.4 / 83
p0 39.11 ± 123.6
pull
Entries 84
Mean −65.92
Std Dev 0

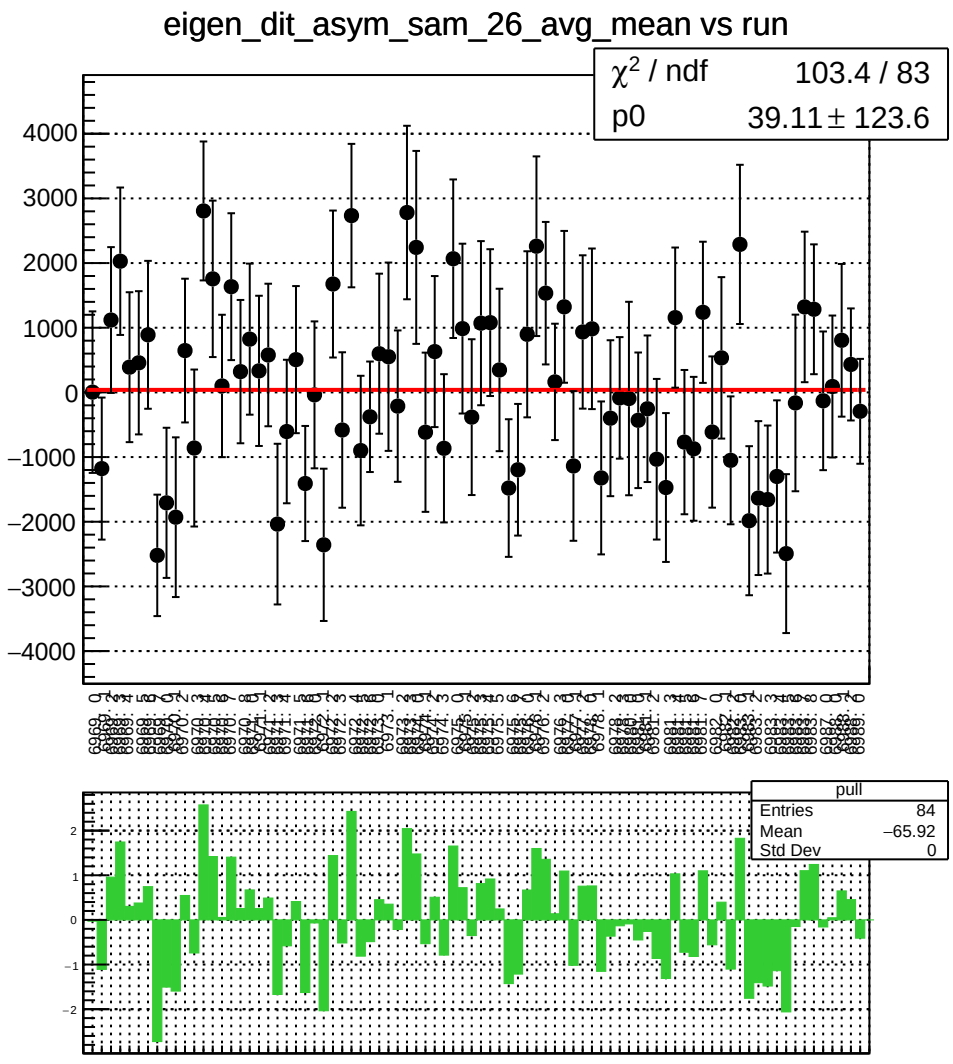

pull1D
Entries 84
Mean 0.02459
Std Dev 1.109

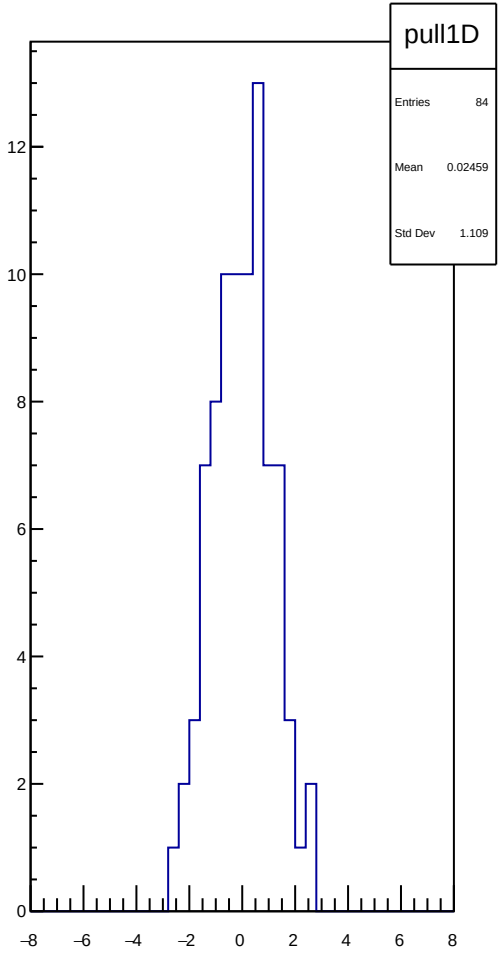

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.038e+04 / 83
p0 112.7 ± 0.08741
170
160
150
140
130
120
110
100

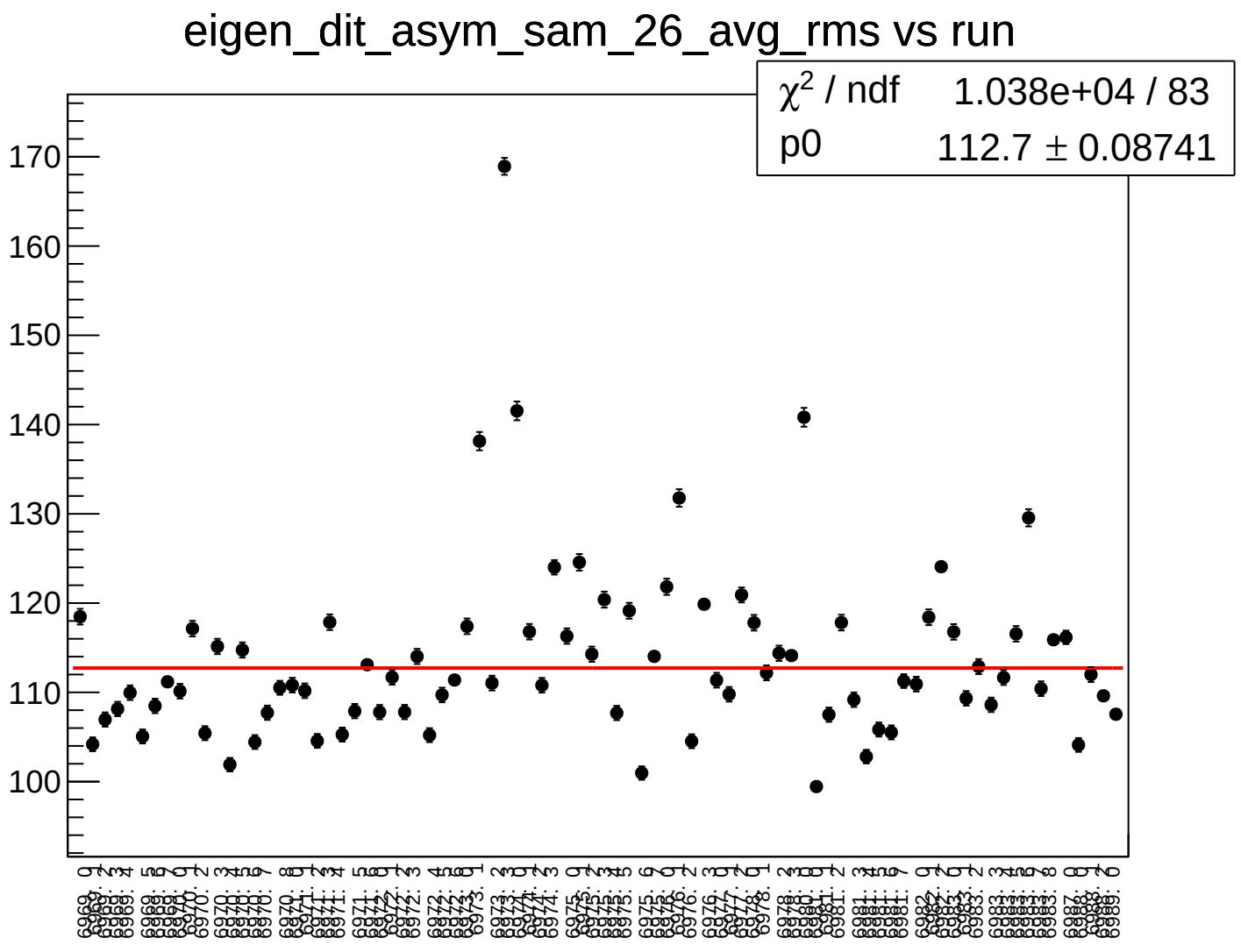

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 93.44 / 83
p0 875 ± 801.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −195.6
Std Dev 0
2
1
0
−1
−2

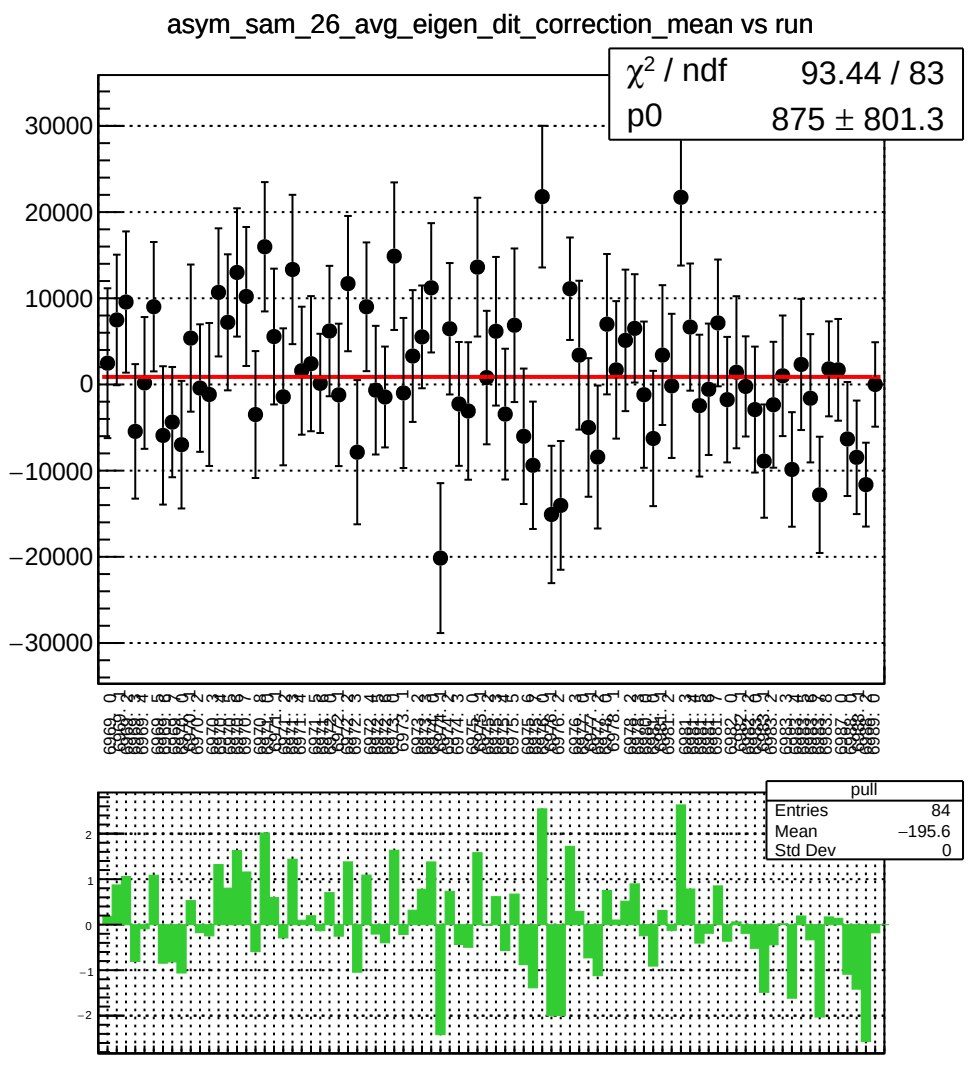

pull1D
Entries 84
Mean 0.03011
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

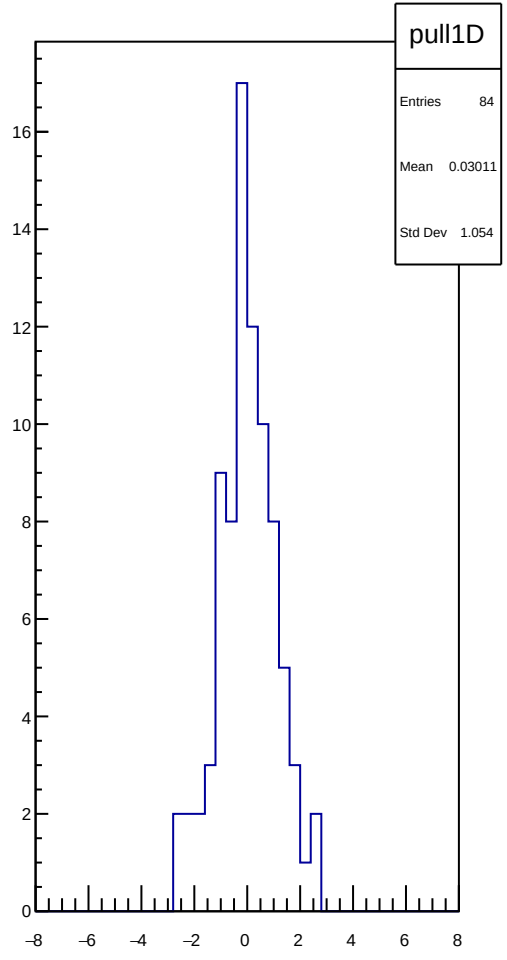

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.045e+04 / 83
p0 730.7 ± 0.5666
850
800
750
700
650
600

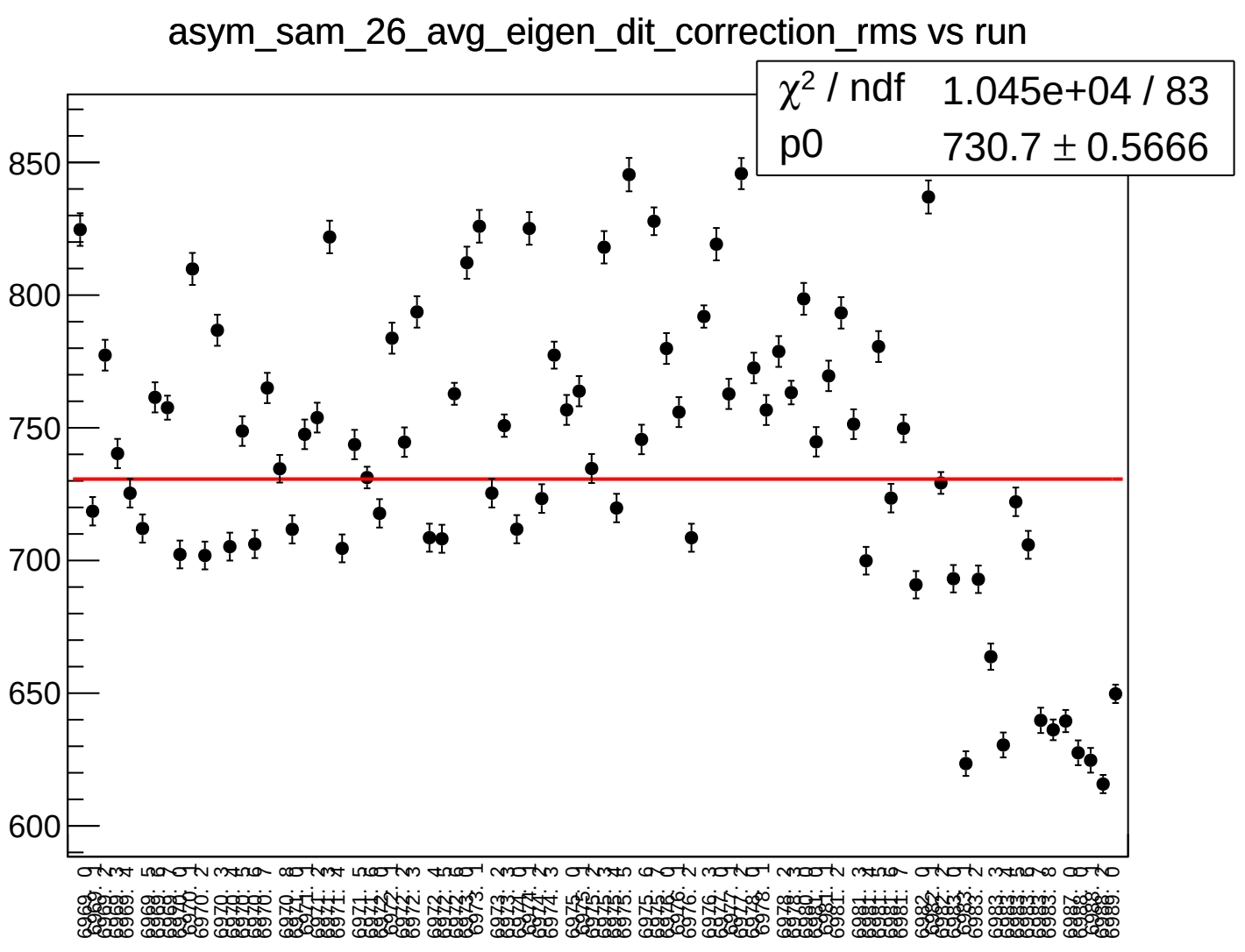

eigen_dit_asym_sam_26_avg_mean vs run
χ^2 / ndf 103.4 / 83
p0 39.11 ± 123.6
pull
Entries 84
Mean −65.92
Std Dev 0

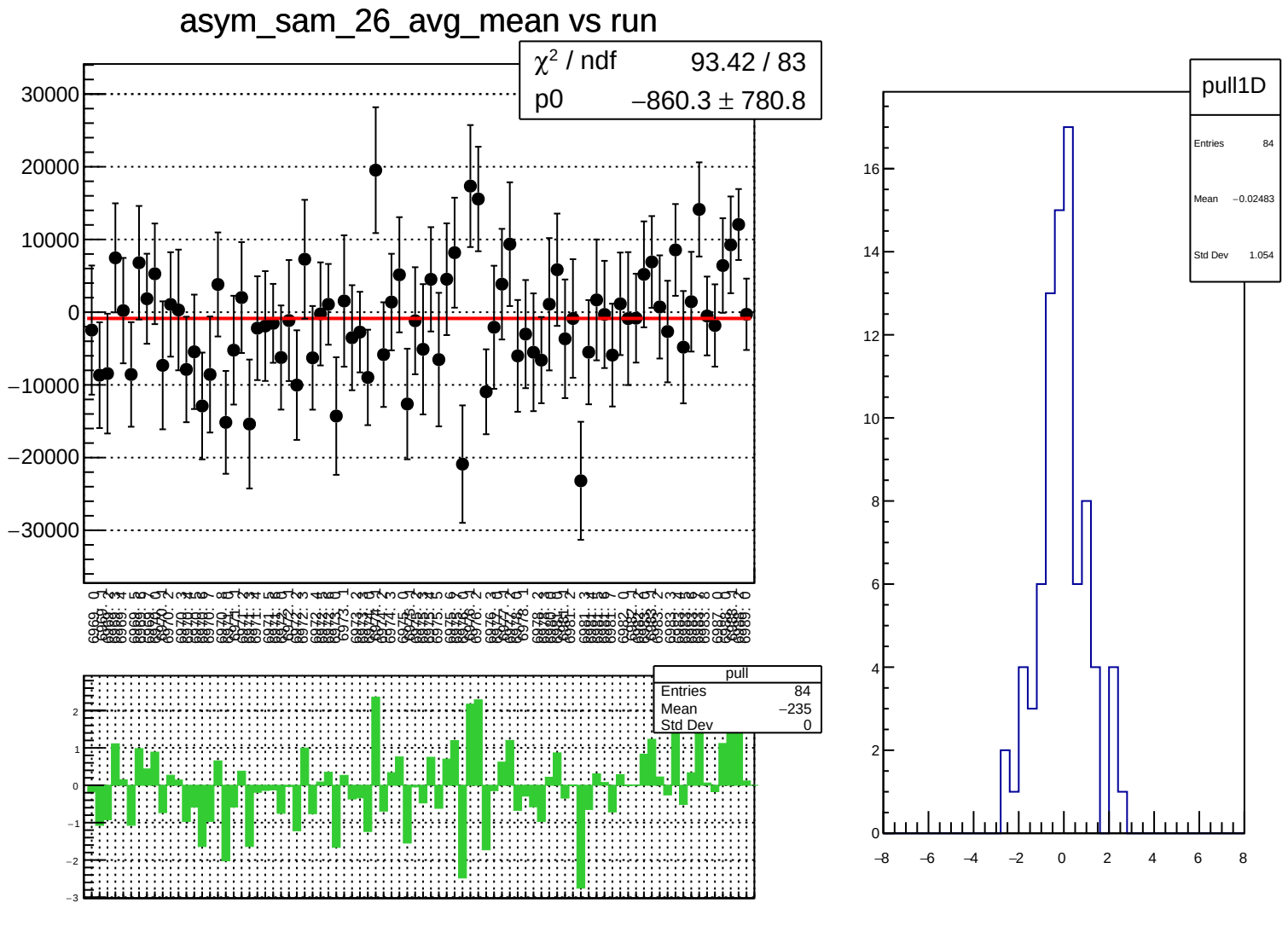

pull1D
Entries 84
Mean 0.02459
Std Dev 1.109

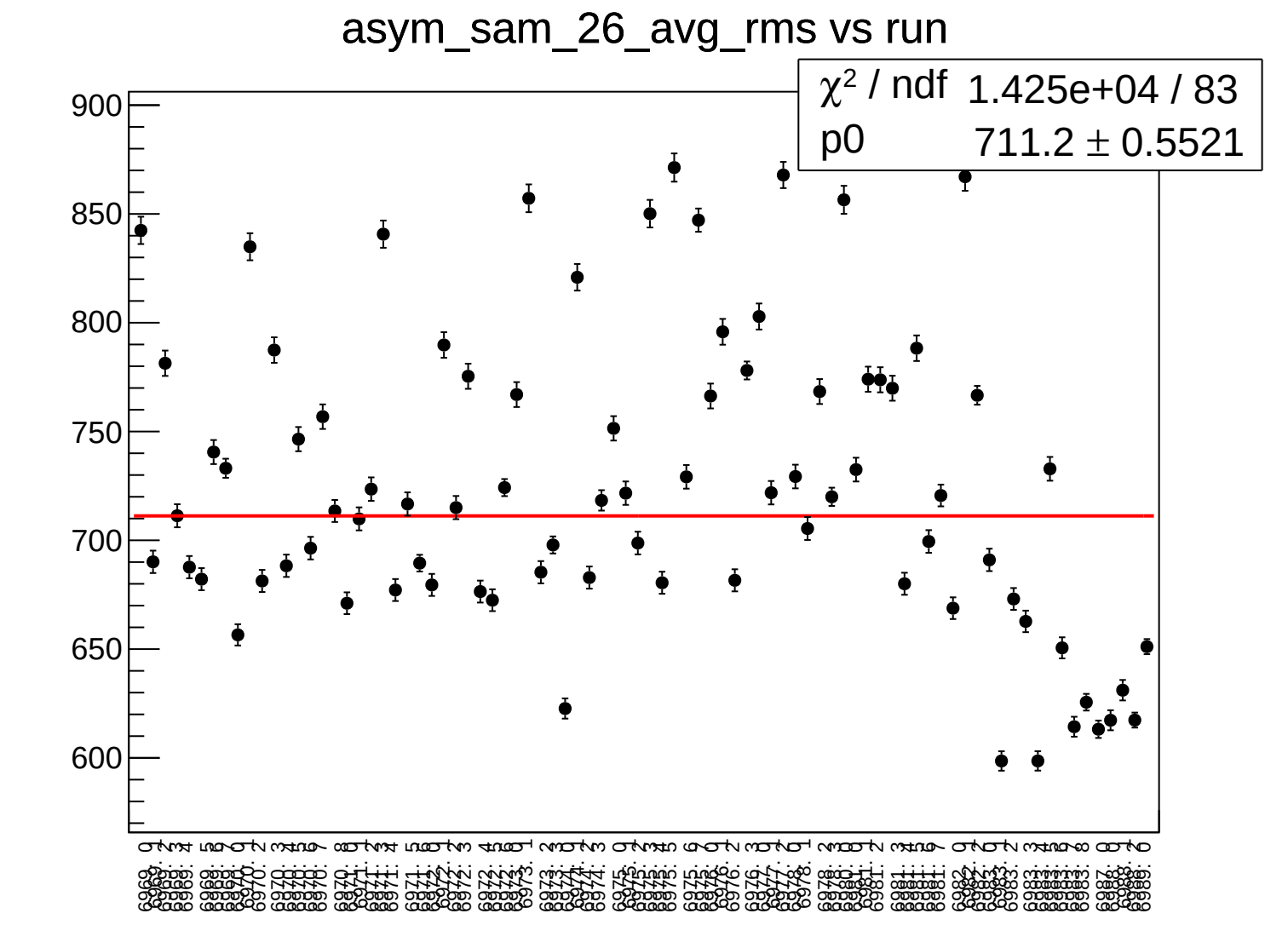

eigen_dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.038e+04 / 83
p0 112.7 ± 0.08741
170
160
150
140
130
120
110
100

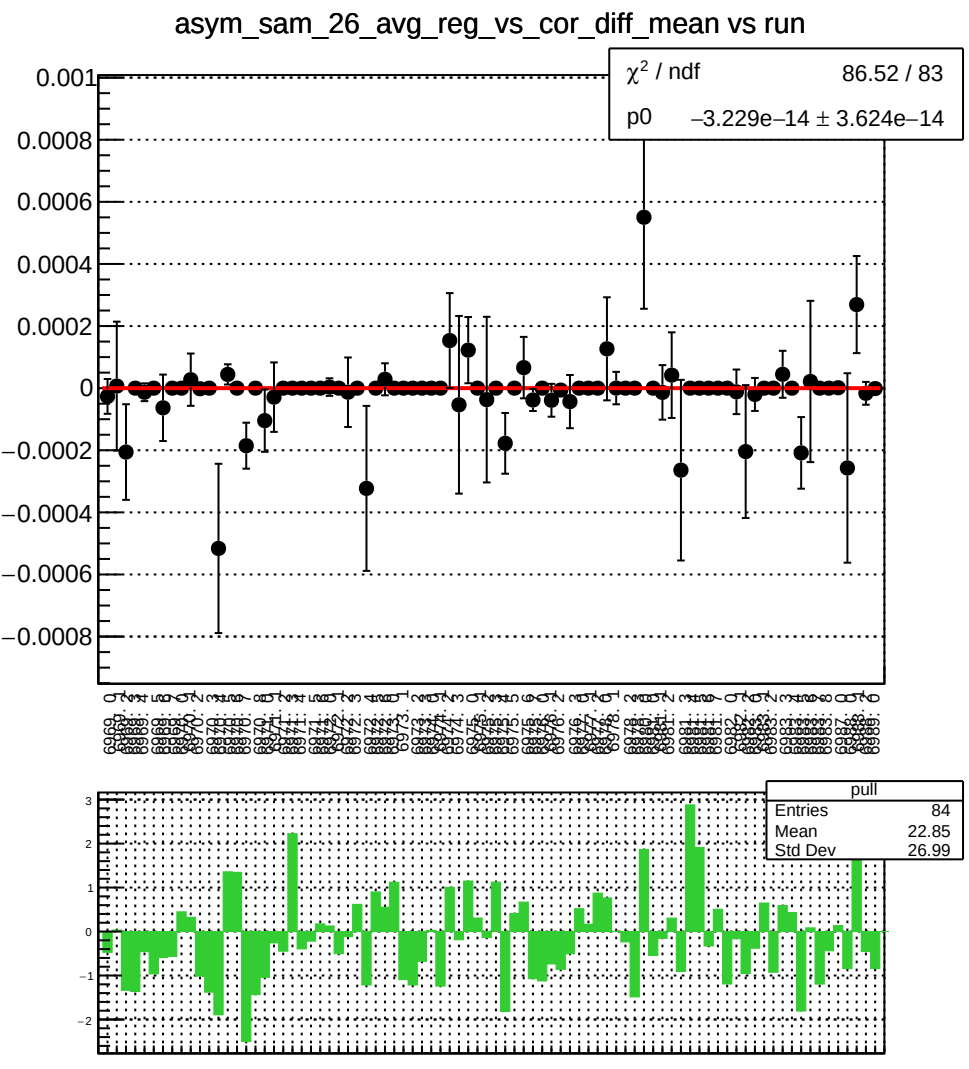

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.44 / 83
p0 875 ± 801.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −195.6
Std Dev 0
2
1
0
−1
−2

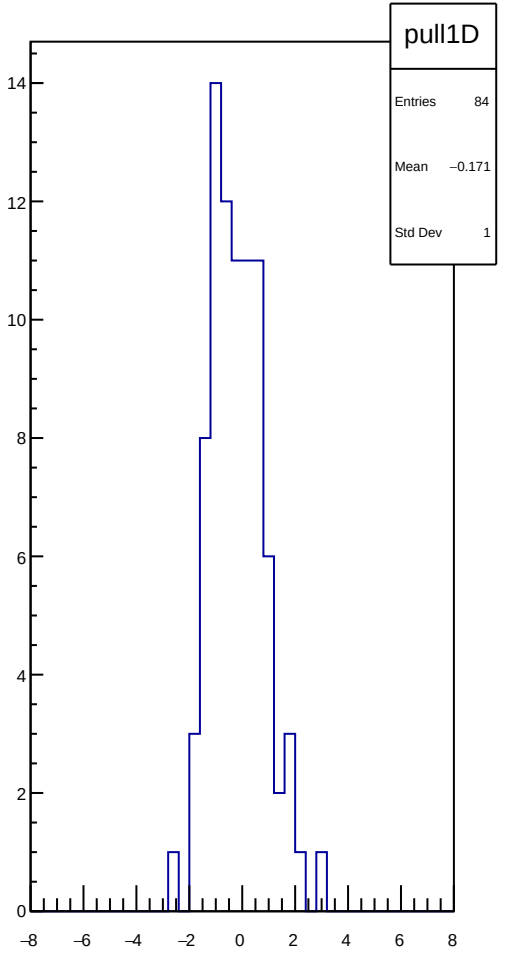

pull1D
Entries 84
Mean 0.03011
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

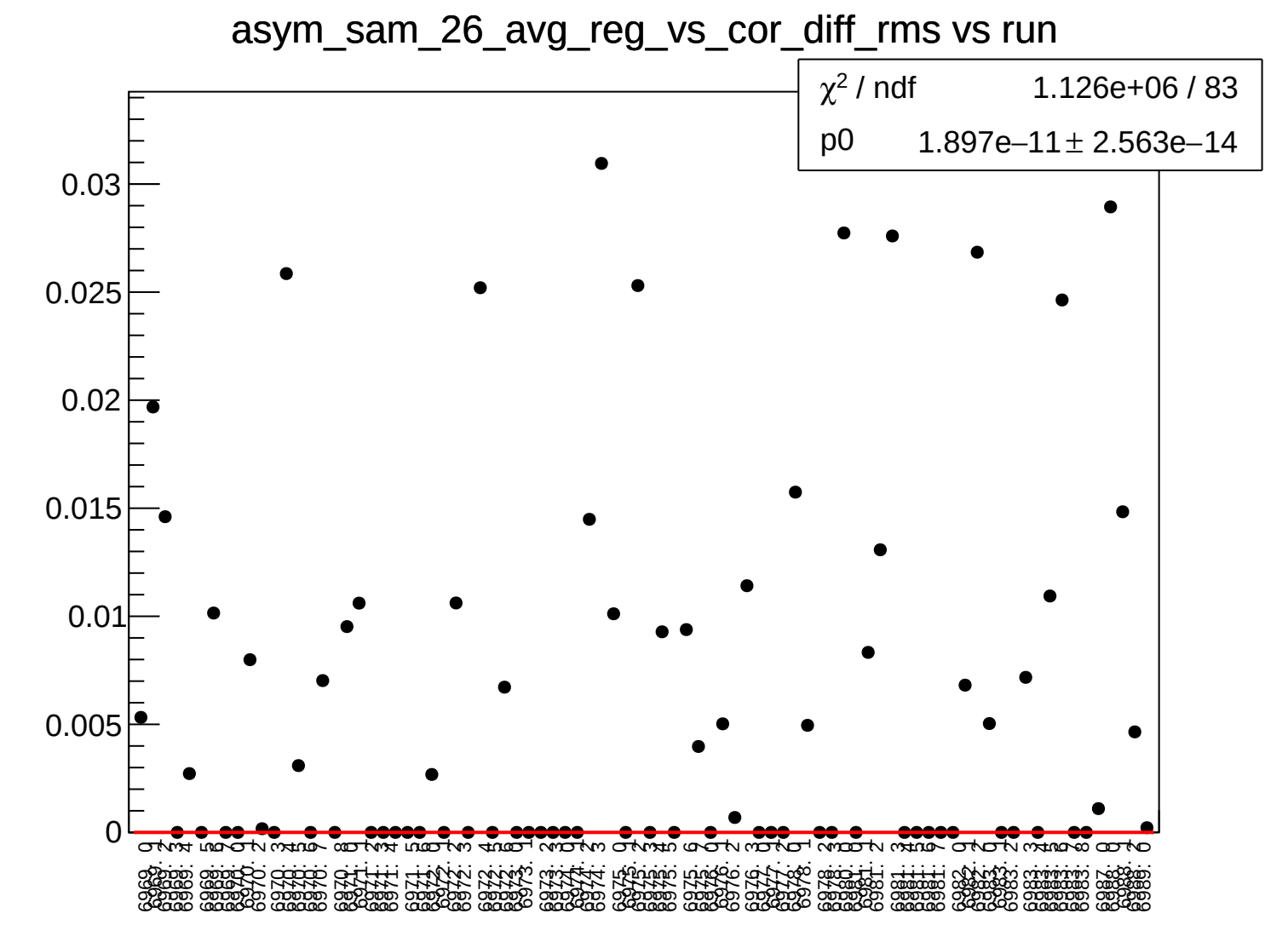

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.045e+04 / 83
p0 730.7 ± 0.5666
850
800
750
700
650
600

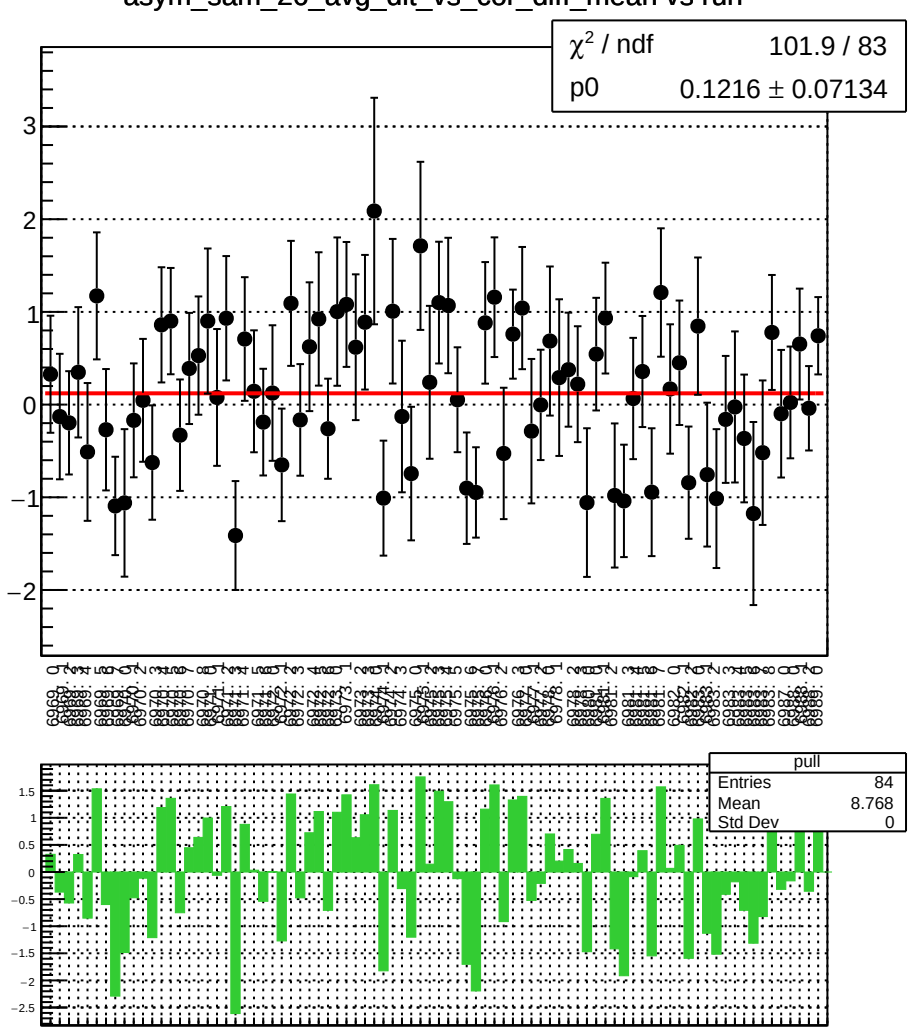

asym_sam_26_avg_mean vs run
χ² / ndf 93.42 / 83
p0 −860.3 ± 780.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −235
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.02483
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

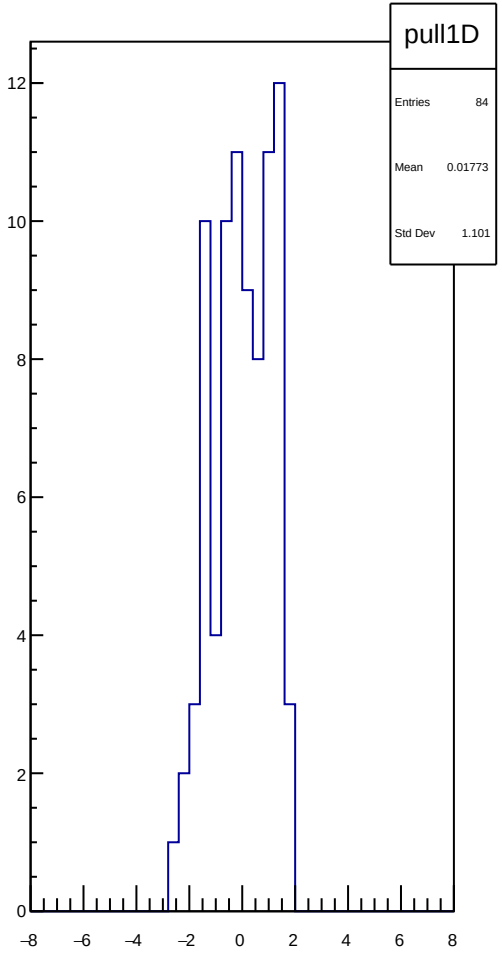

asym_sam_26_avg_rms vs run
χ² / ndf 1.425e+04 / 83
p0 711.2 ± 0.5521
900
850
800
750
700
650
600

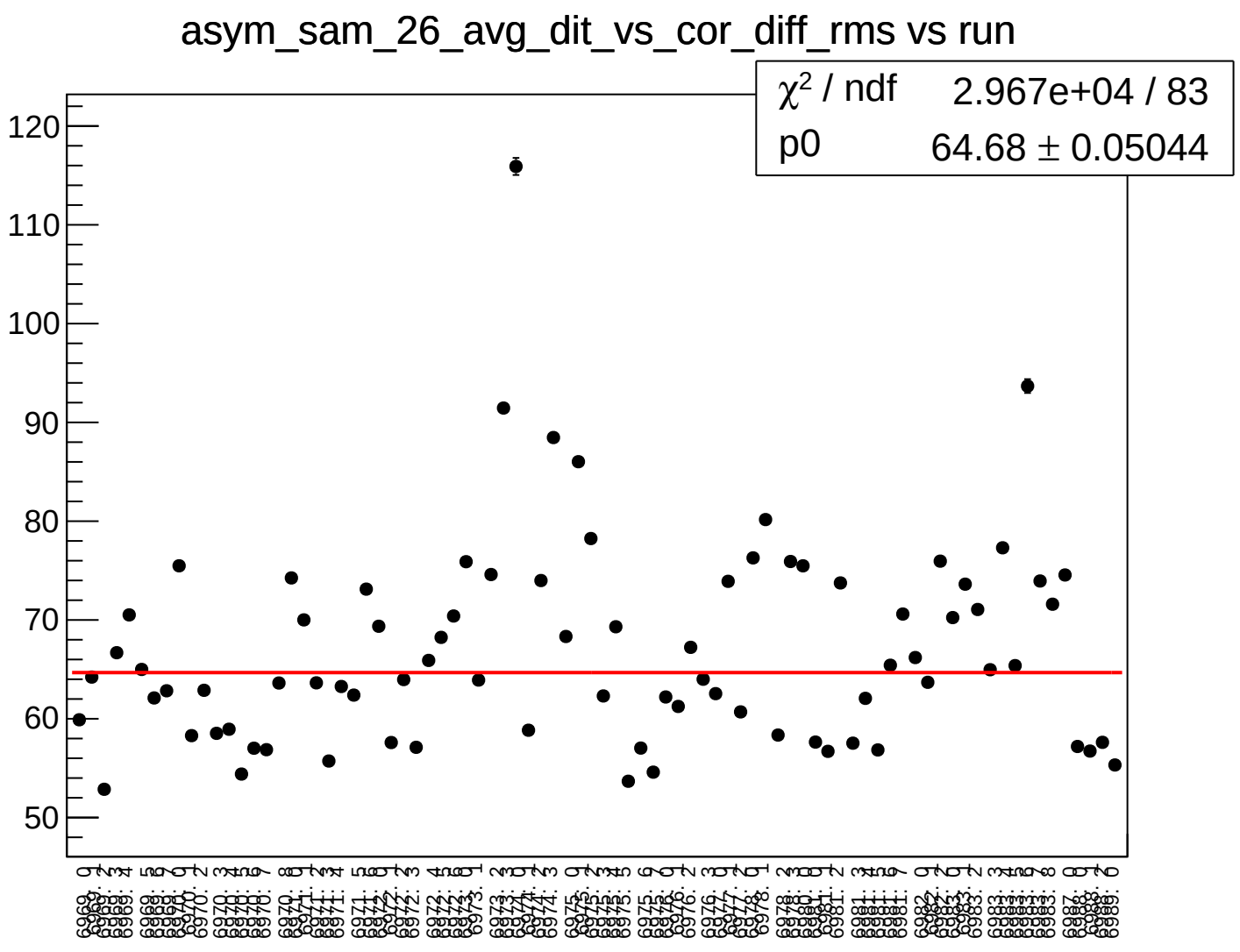

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.52 / 83
p0 −3.229e−14 ± 3.624e−14
pull
Entries 84
Mean 22.85
Std Dev 26.99

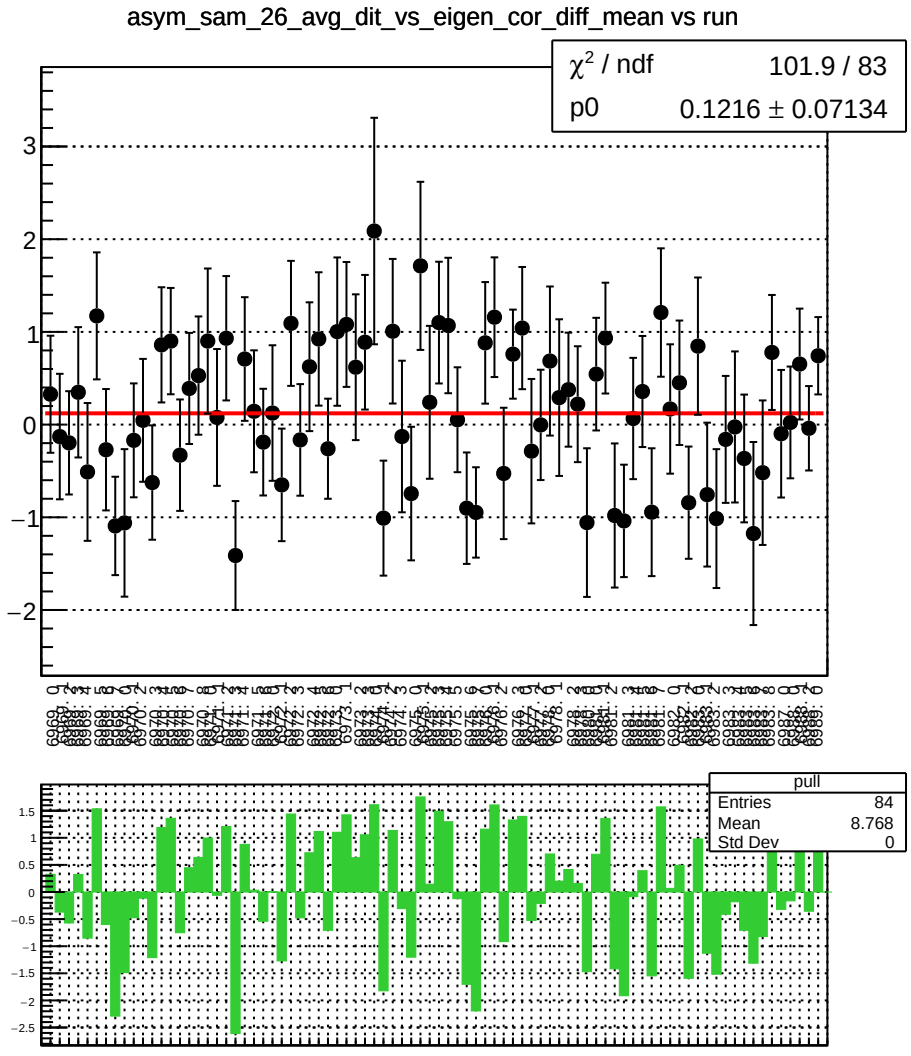

pull1D
Entries 84
Mean −0.171
Std Dev 1

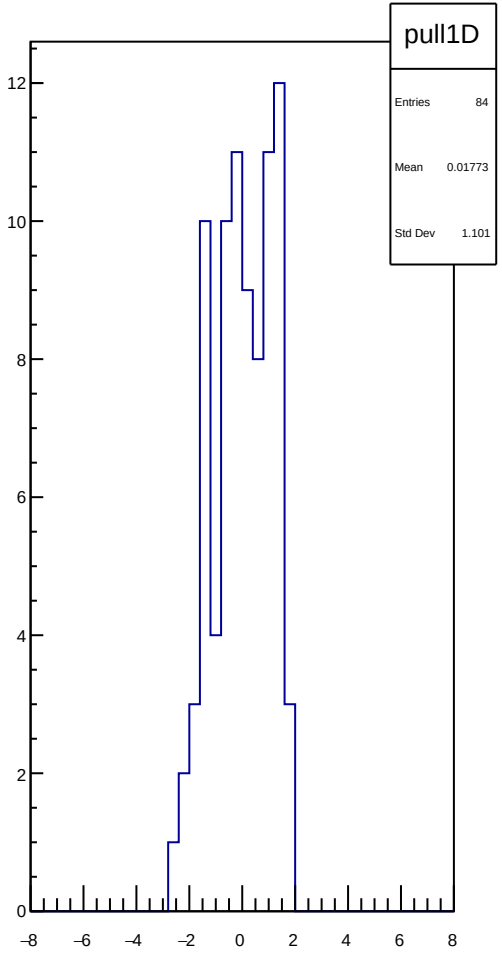

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.126e+06 / 83
p0 1.897e−11 ± 2.563e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

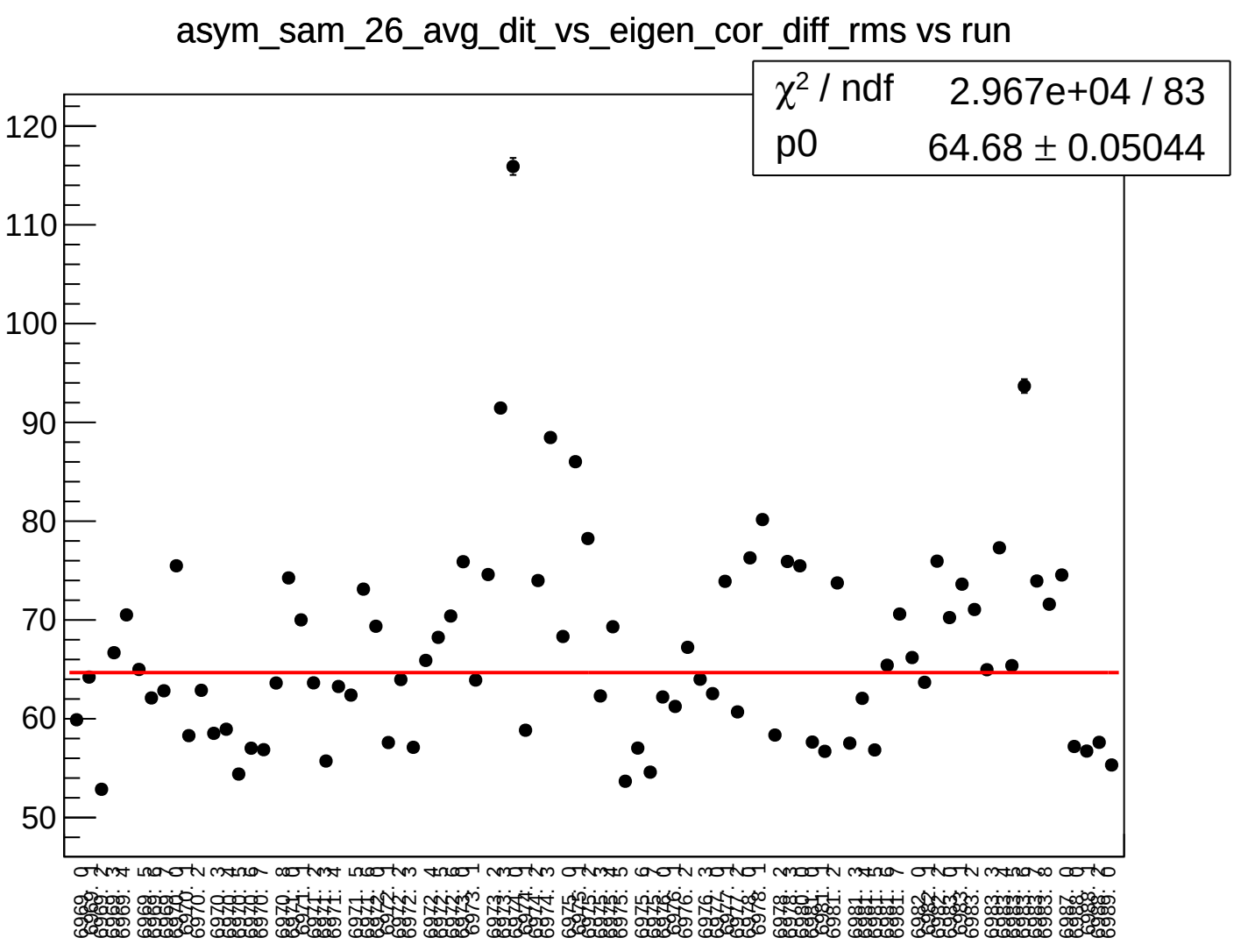

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.9 / 83
p0 0.1216 ± 0.07134
pull
Entries 84
Mean 8.768
Std Dev 0

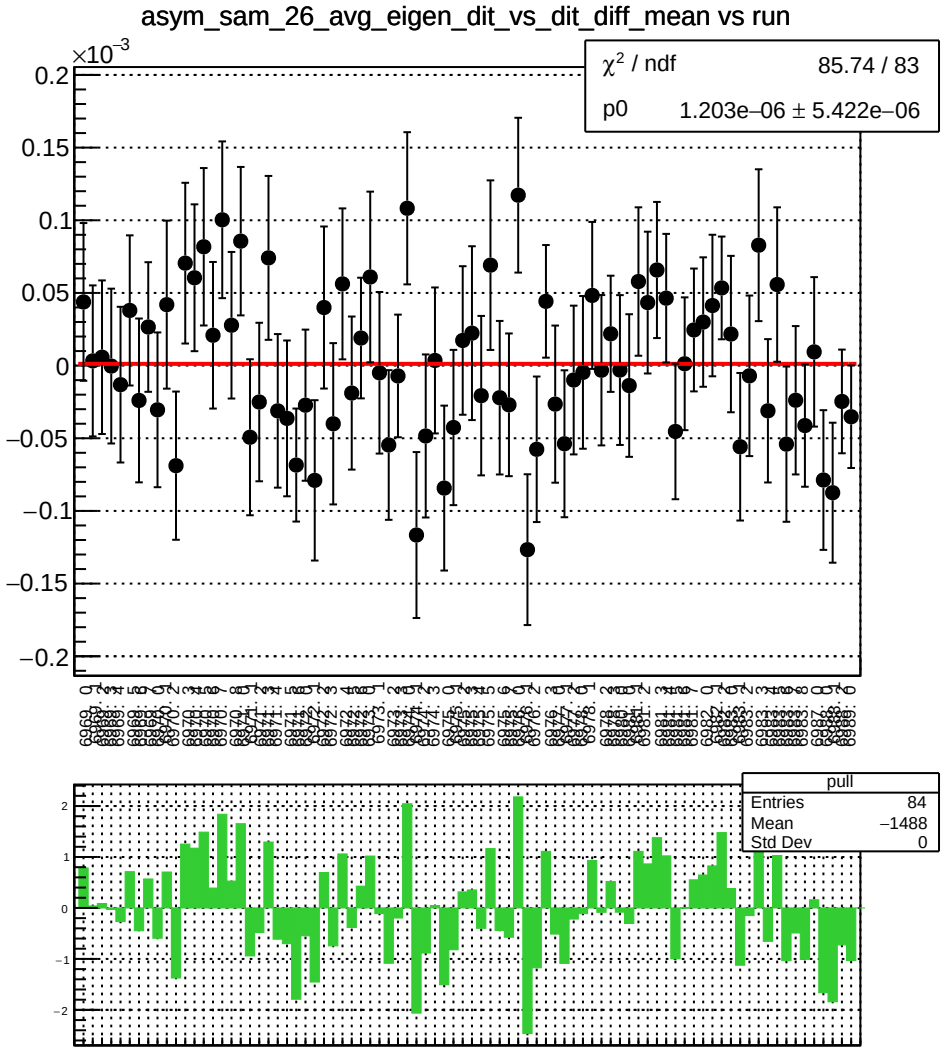

pull1D
Entries 84
Mean 0.01773
Std Dev 1.101

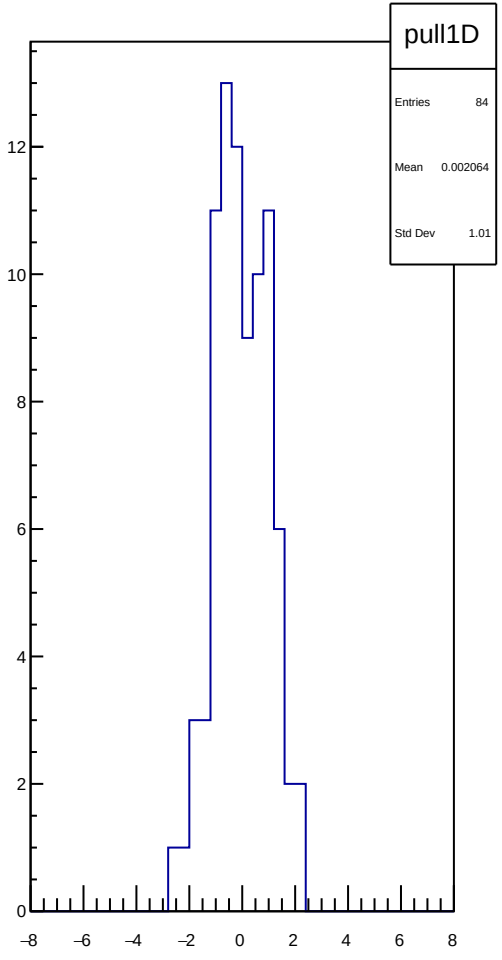

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.967e+04 / 83
p0 64.68 ± 0.05044
120
110
100
90
80
70
60
50

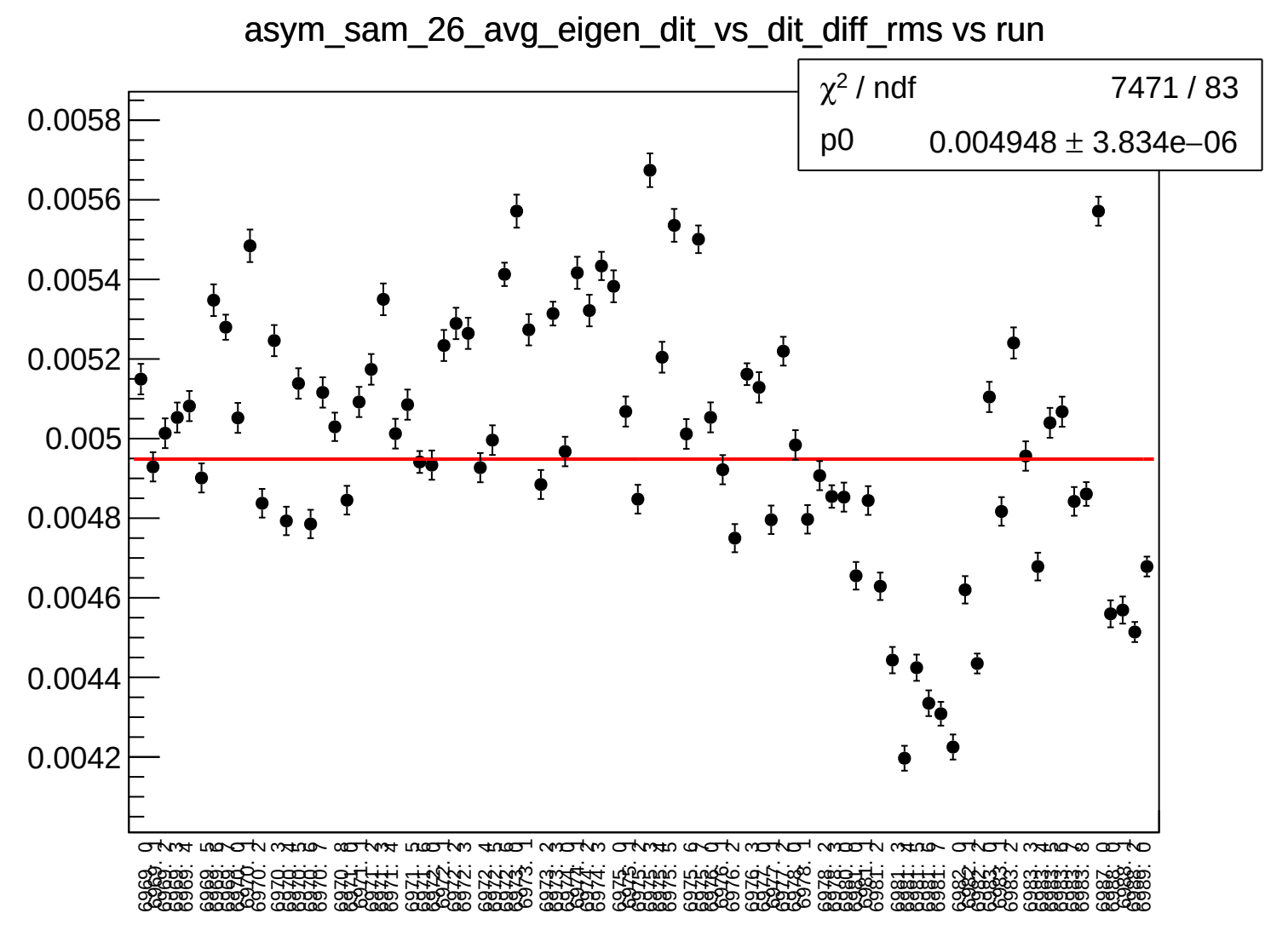

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.9 / 83
p0 0.1216 ± 0.07134
pull
Entries 84
Mean 8.768
Std Dev 0

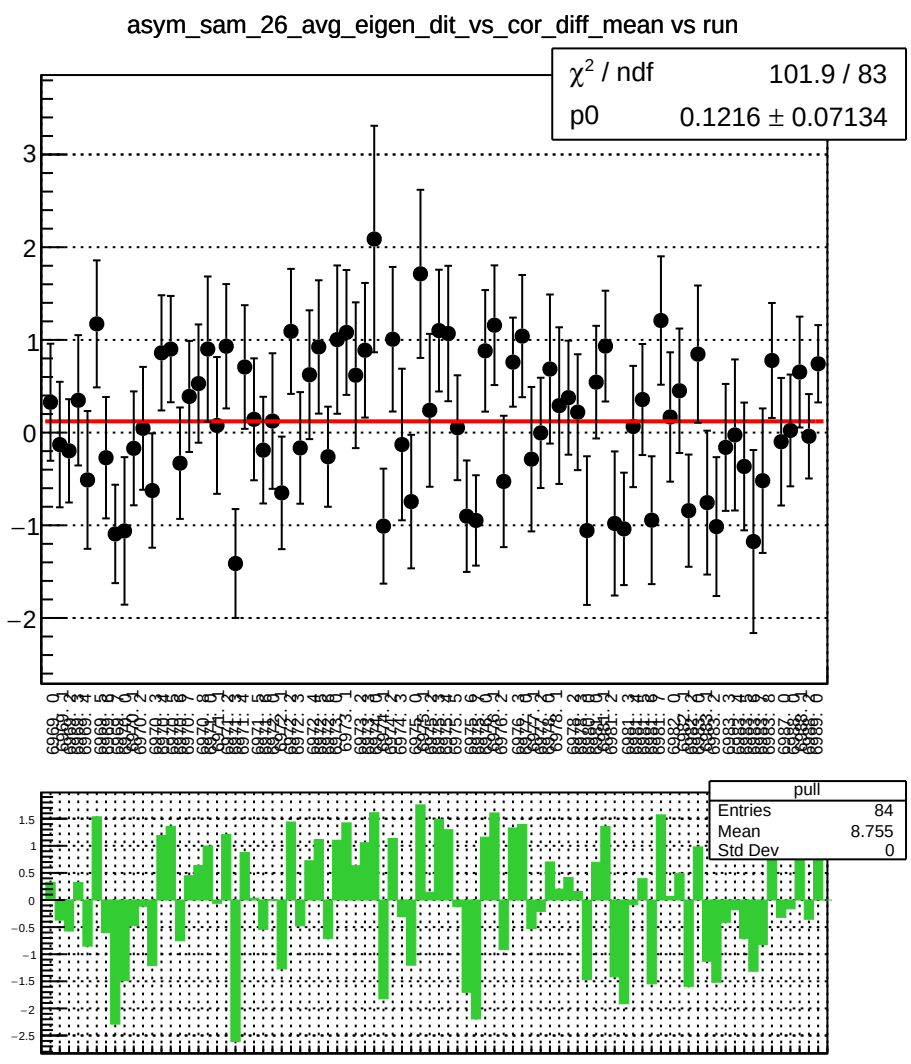

pull1D
Entries 84
Mean 0.01773
Std Dev 1.101

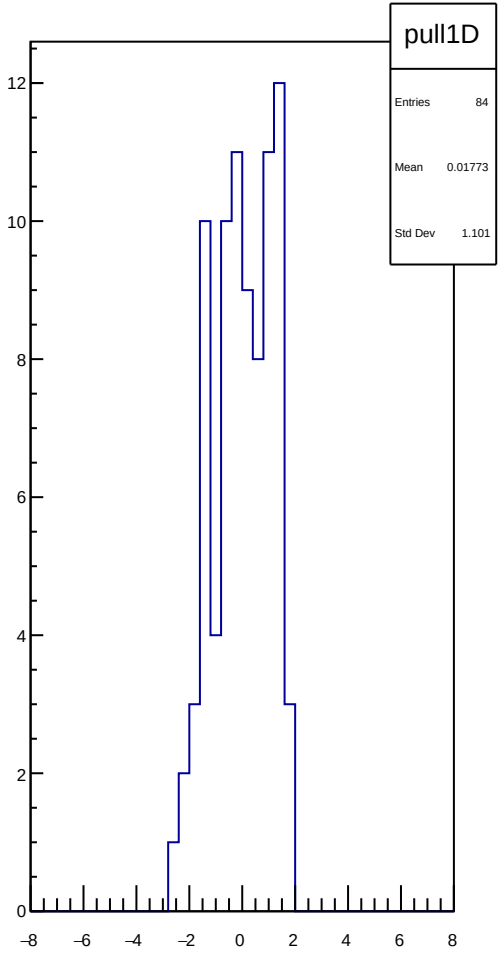

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.967e+04 / 83
p0 64.68 ± 0.05044
120
110
100
90
80
70
60
50

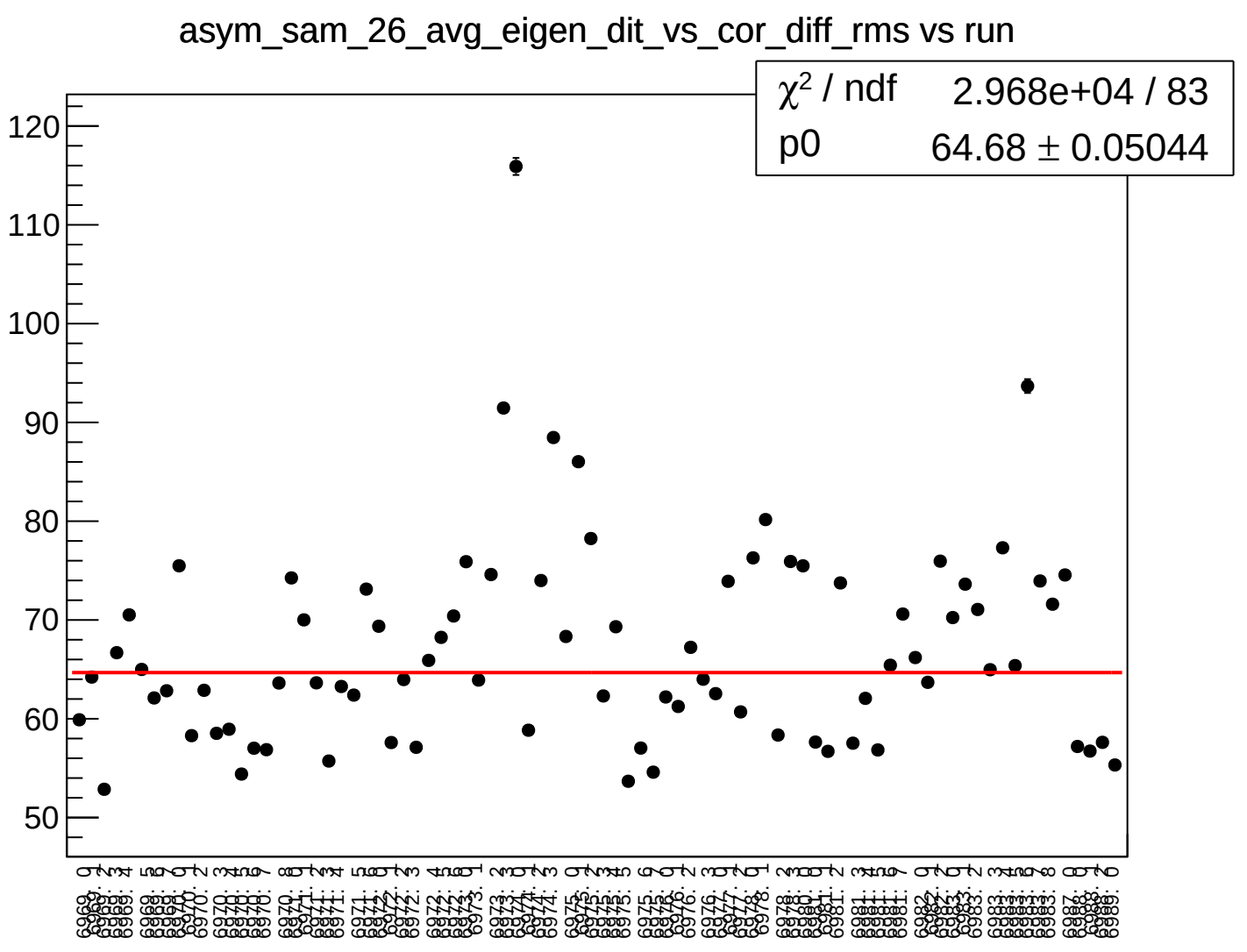

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.74 / 83
p0 1.203e−06 ± 5.422e−06
pull
Entries 84
Mean −1488
Std Dev 0

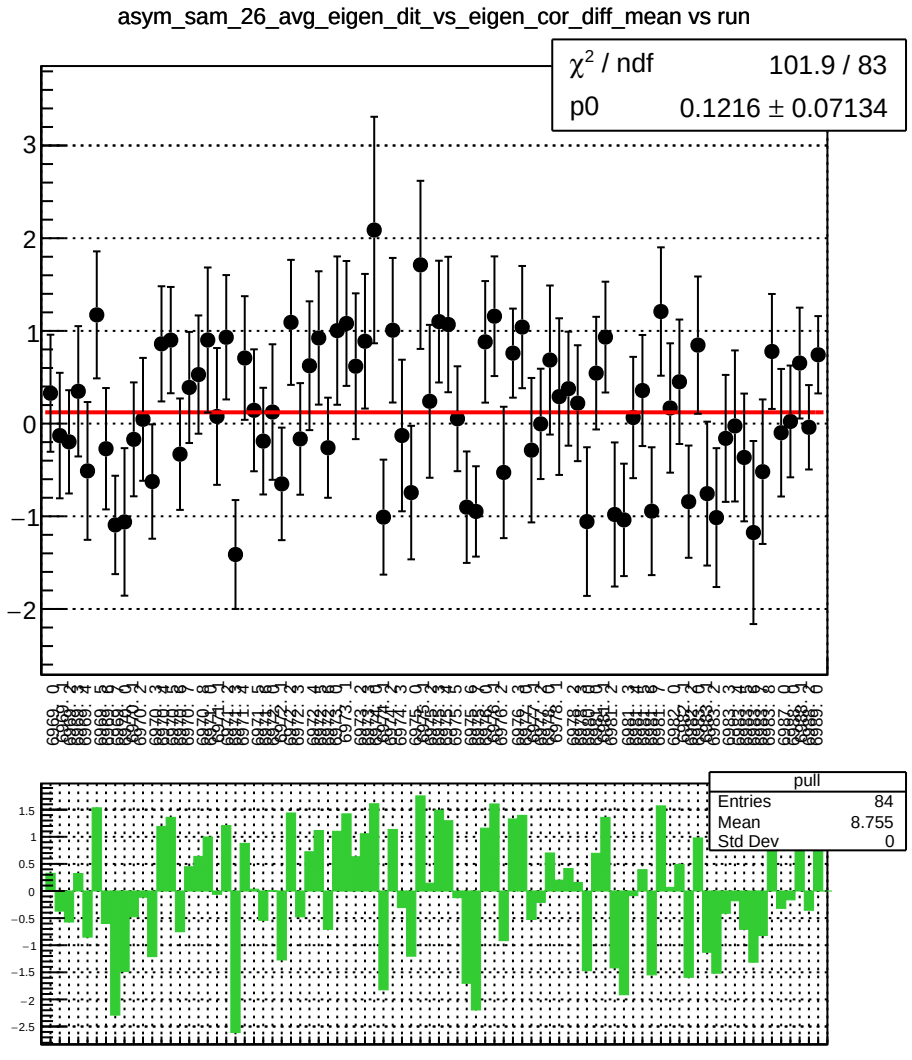

pull1D
Entries 84
Mean 0.002064
Std Dev 1.01

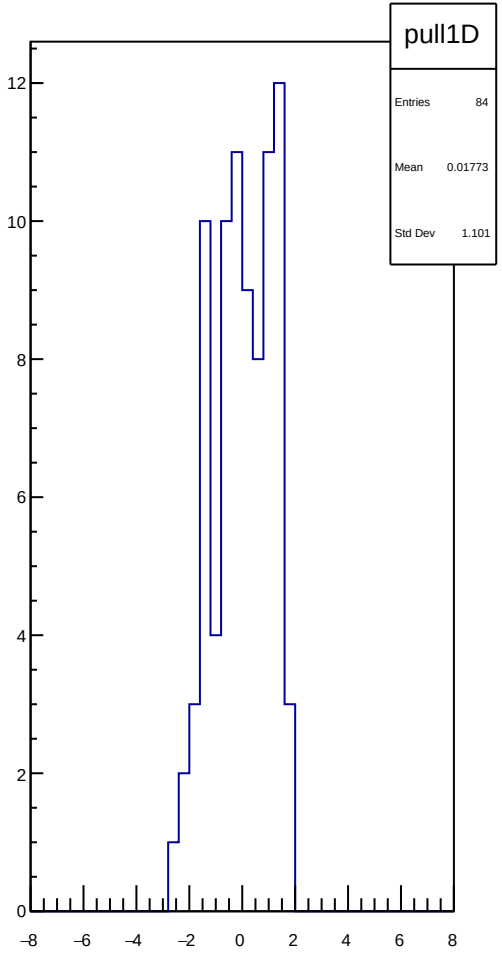

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7471 / 83
p0 0.004948 ± 3.834e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

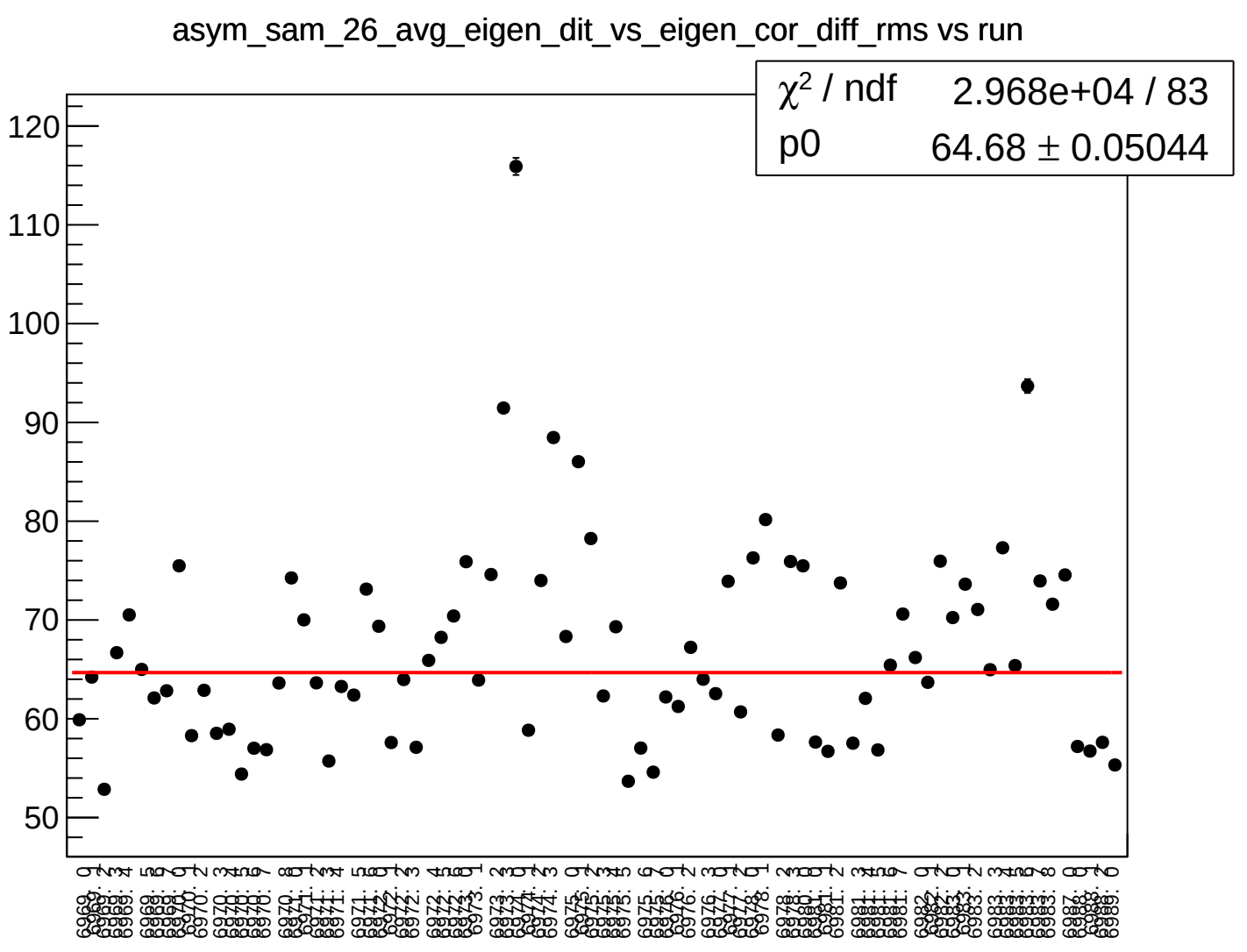

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.9 / 83
p0 0.1216 ± 0.07134
pull
Entries 84
Mean 8.755
Std Dev 0

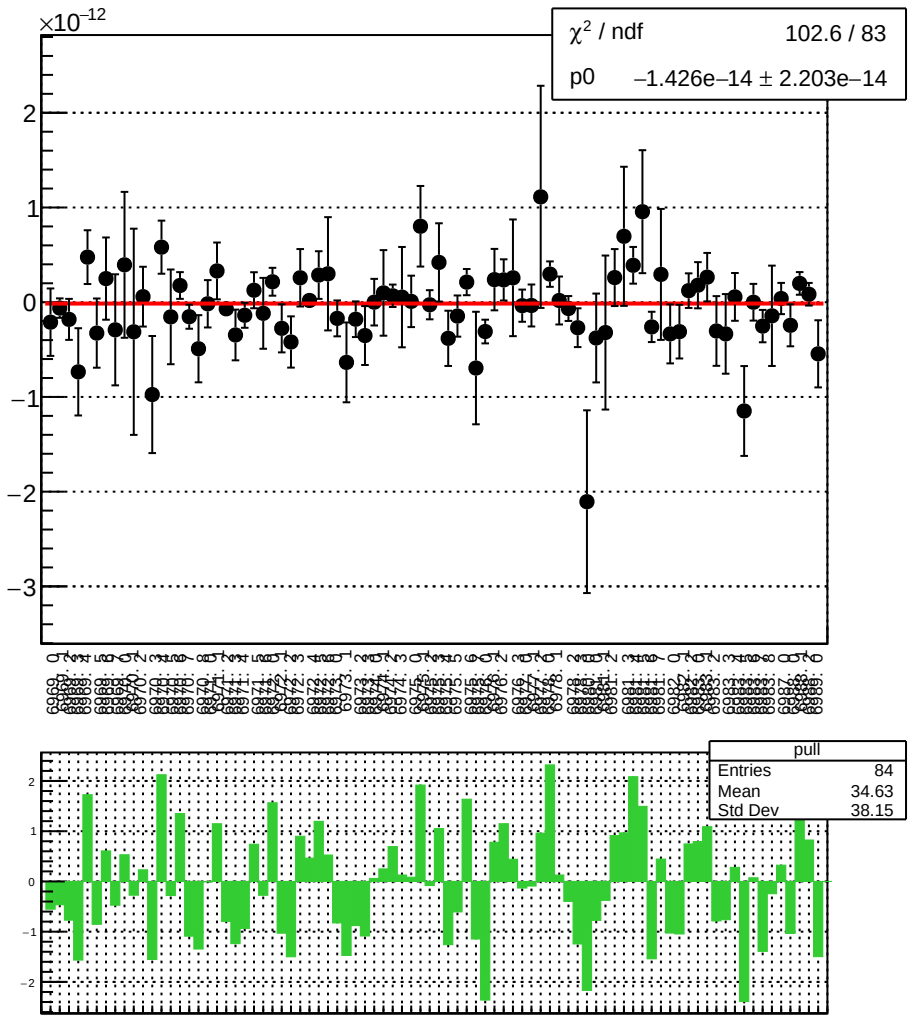

pull1D
Entries 84
Mean 0.01773
Std Dev 1.101

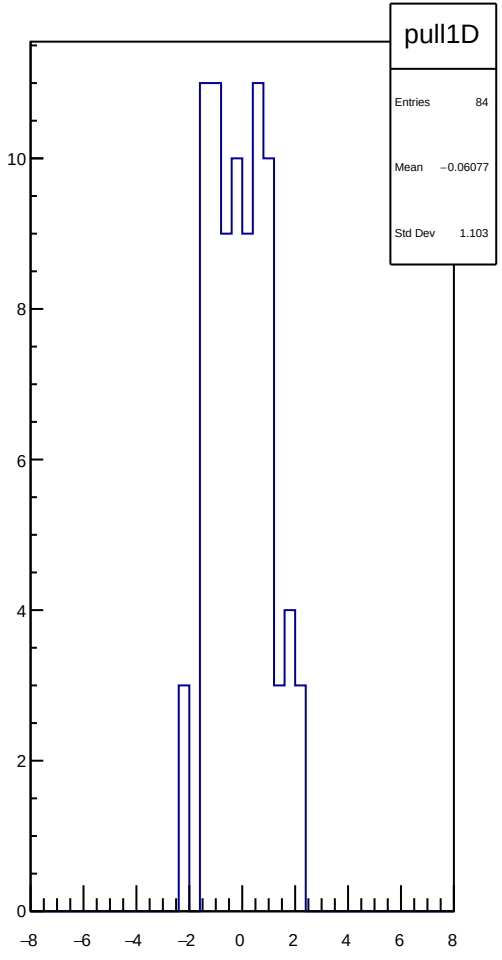

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.968e+04 / 83
p0 64.68 ± 0.05044
120
110
100
90
80
70
60
50

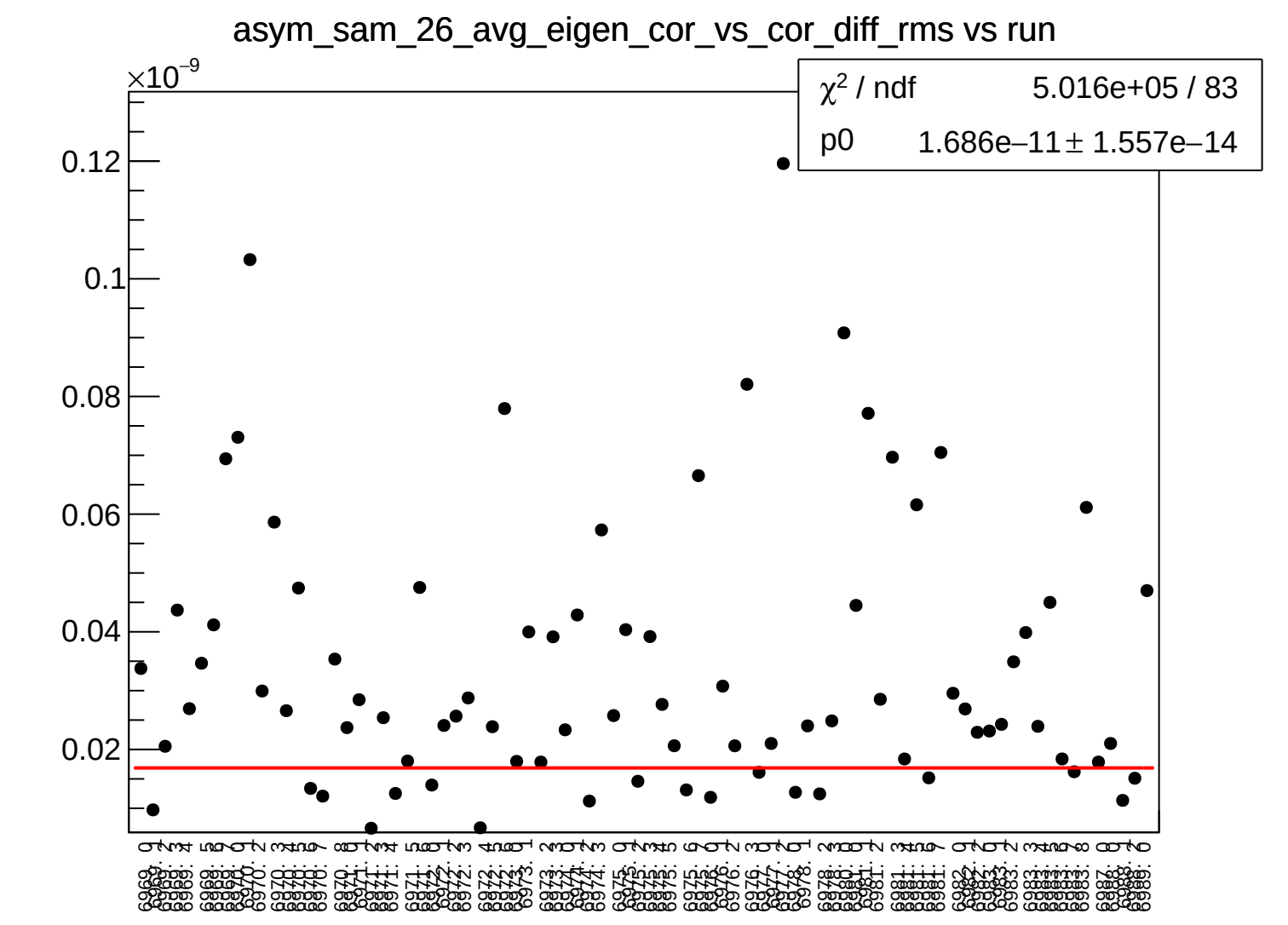

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.9 / 83
p0 0.1216 ± 0.07134
pull
Entries 84
Mean 8.755
Std Dev 0

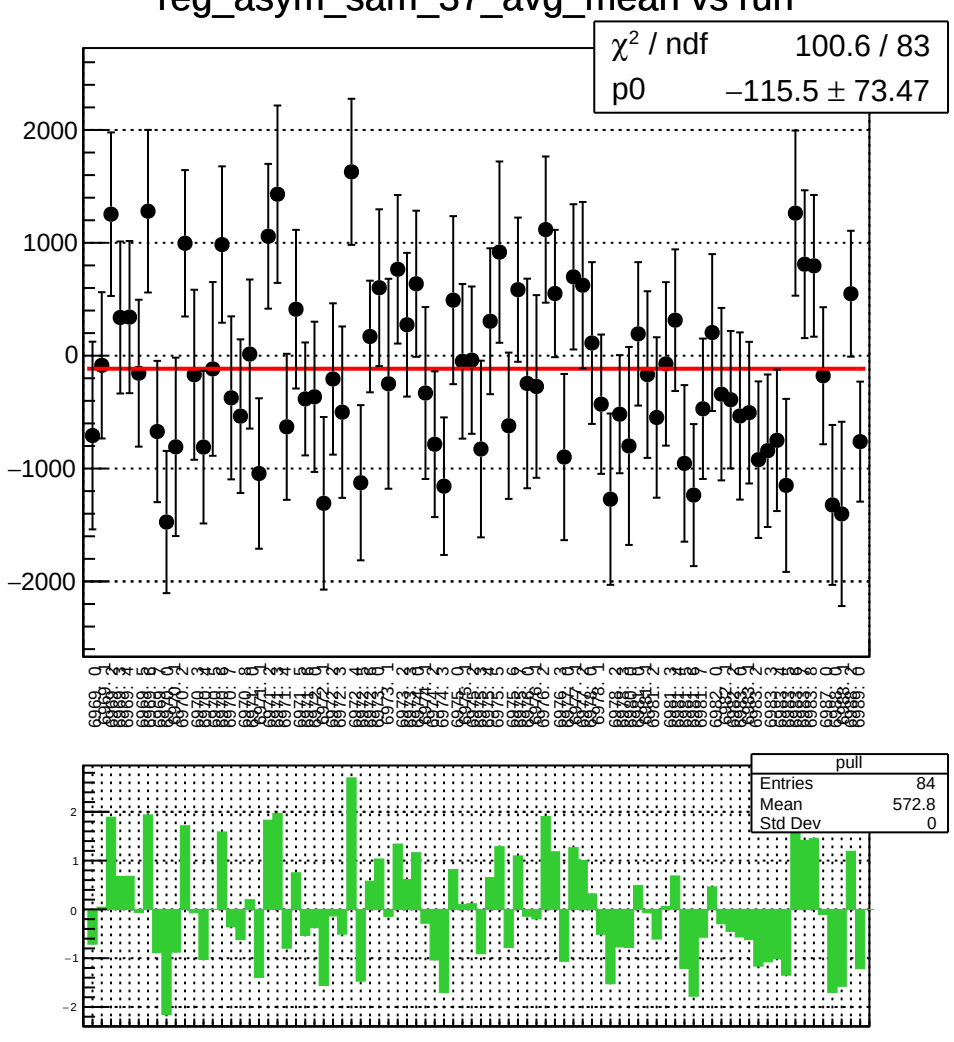

pull1D
Entries 84
Mean 0.01773
Std Dev 1.101

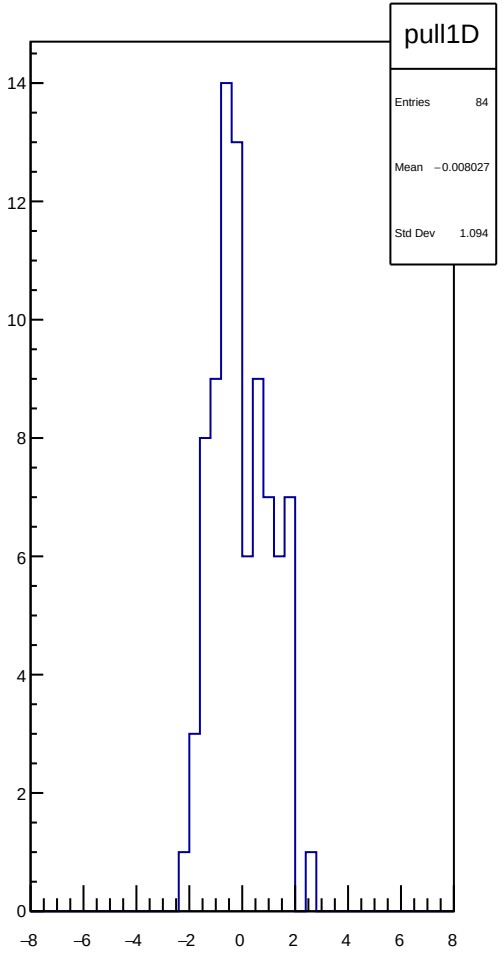

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.968e+04 / 83
p0 64.68 ± 0.05044
120
110
100
90
80
70
60
50

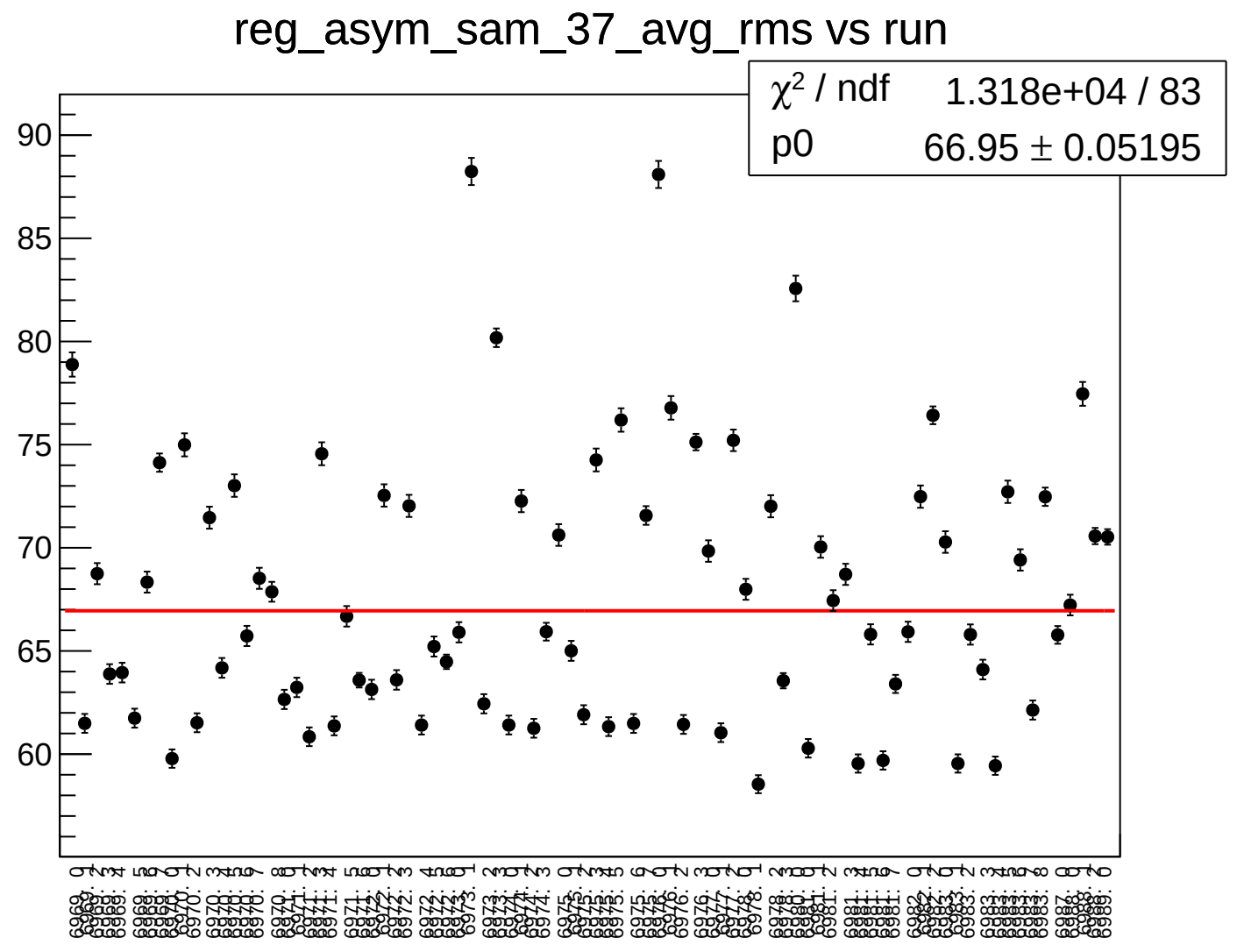

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.6 / 83
p0 −1.426e−14 ± 2.203e−14
pull
Entries 84
Mean 34.63
Std Dev 38.15

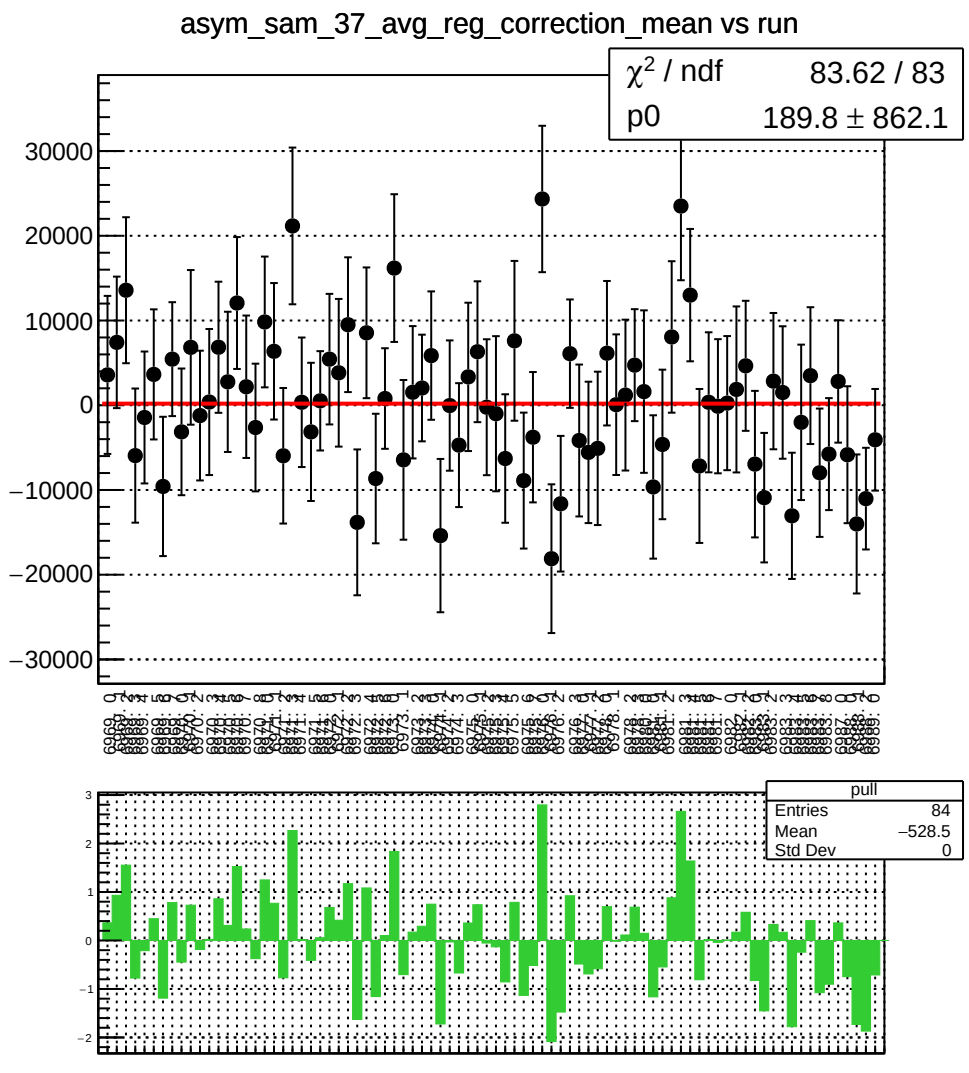

pull1D
Entries 84
Mean −0.06077
Std Dev 1.103

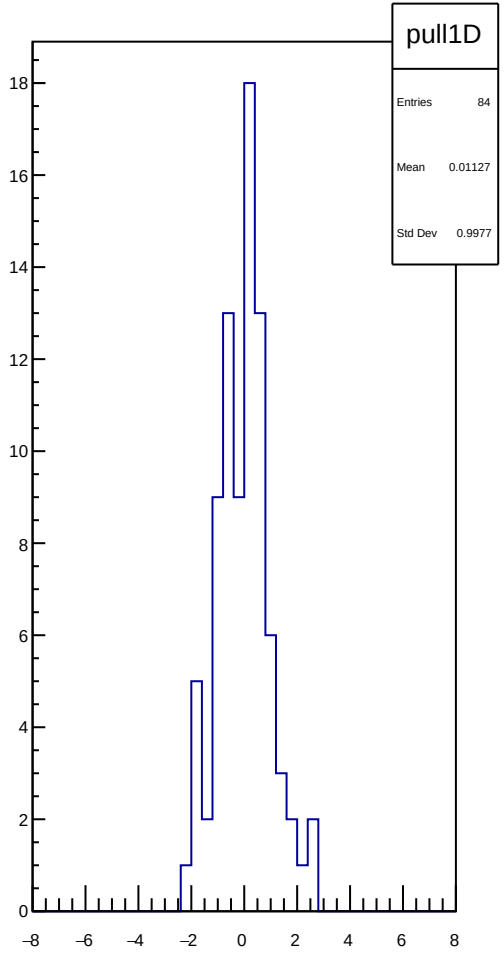

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.016e+05 / 83
p0 1.686e−11 ± 1.557e−14
0.12
0.1
0.08
0.06
0.04
0.02

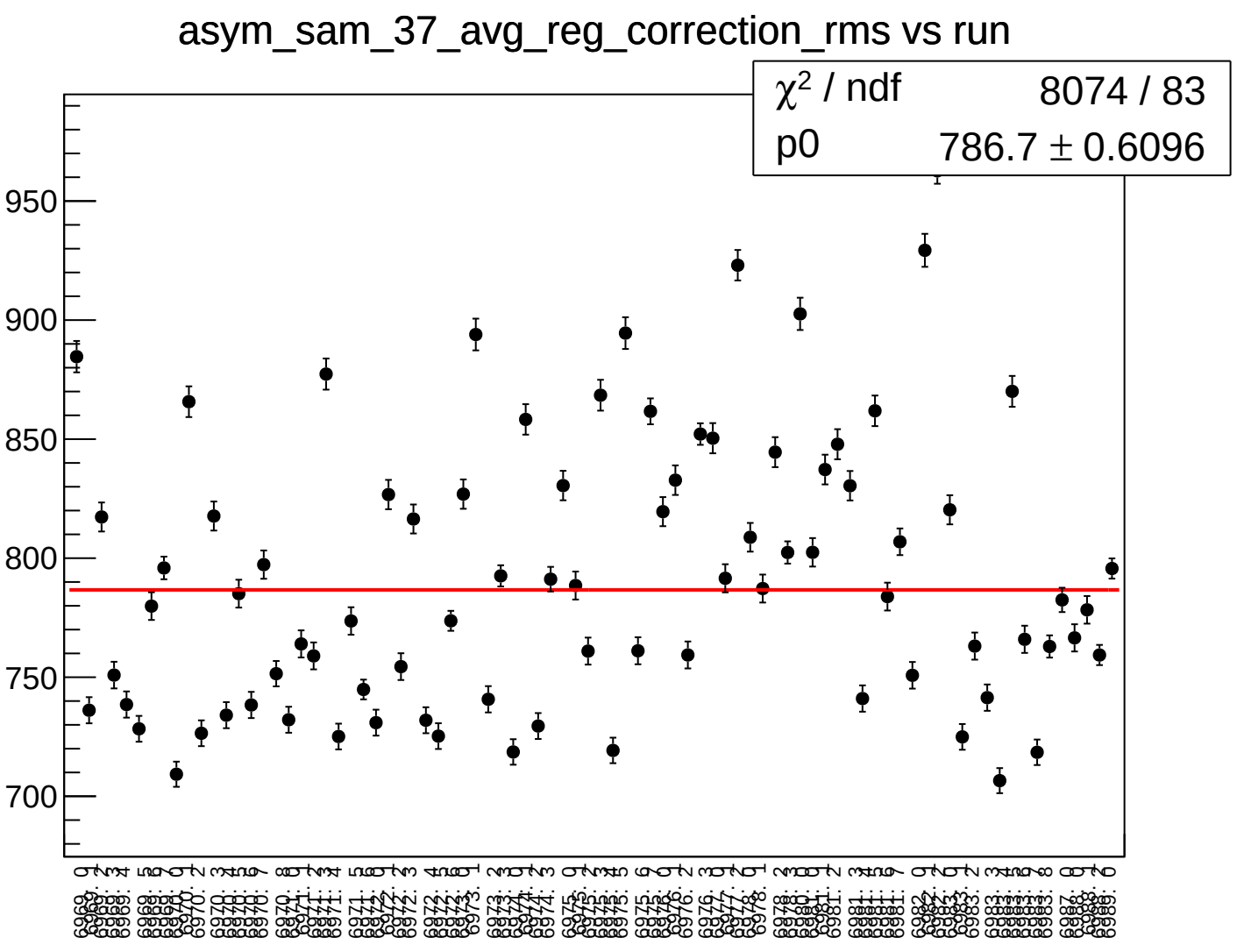

reg_asym_sam_37_avg_mean vs run
χ² / ndf 100.6 / 83
p0 −115.5 ± 73.47
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 572.8
Std Dev 0
2
1
0
−1

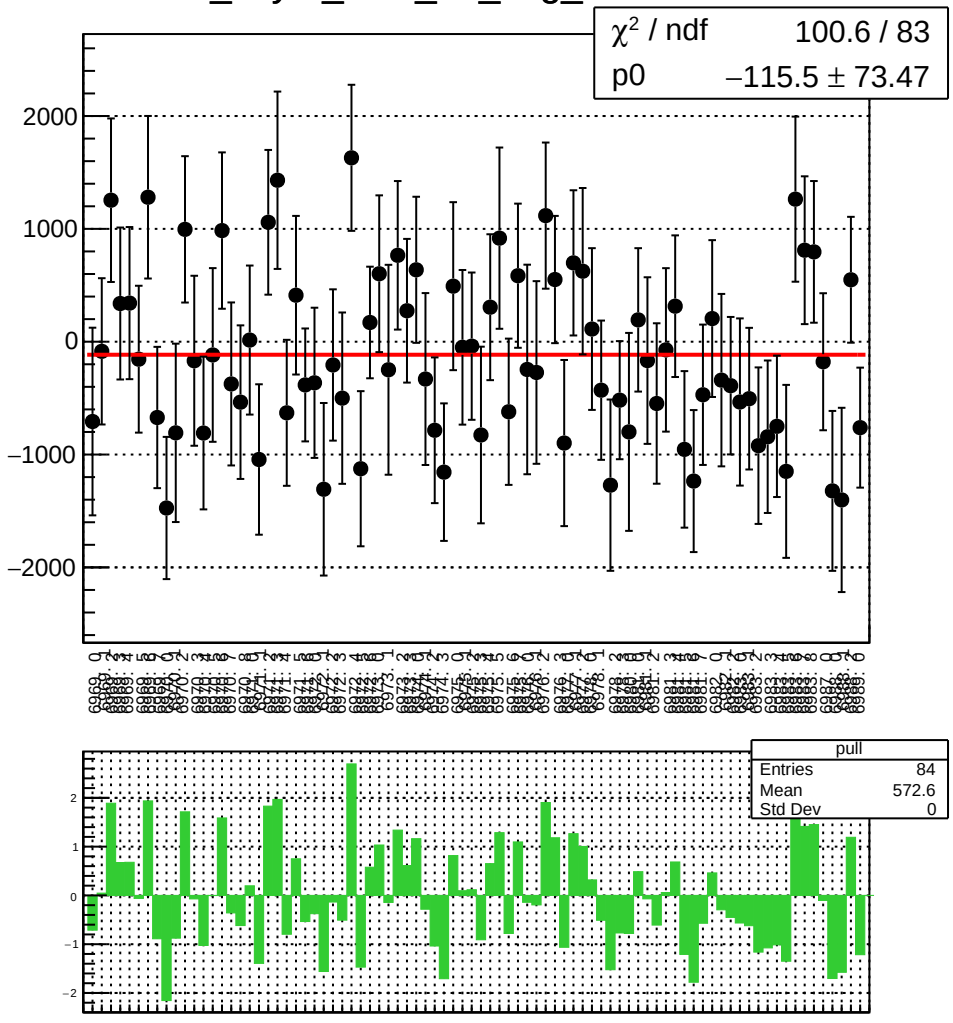

pull1D
Entries 84
Mean −0.008027
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

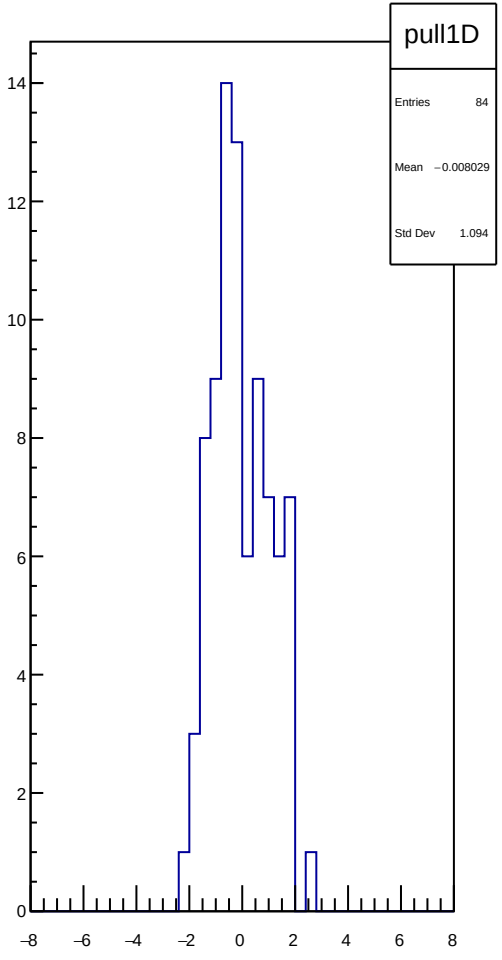

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.318e+04 / 83
p0 66.95 ± 0.05195
90
85
80
75
70
65
60

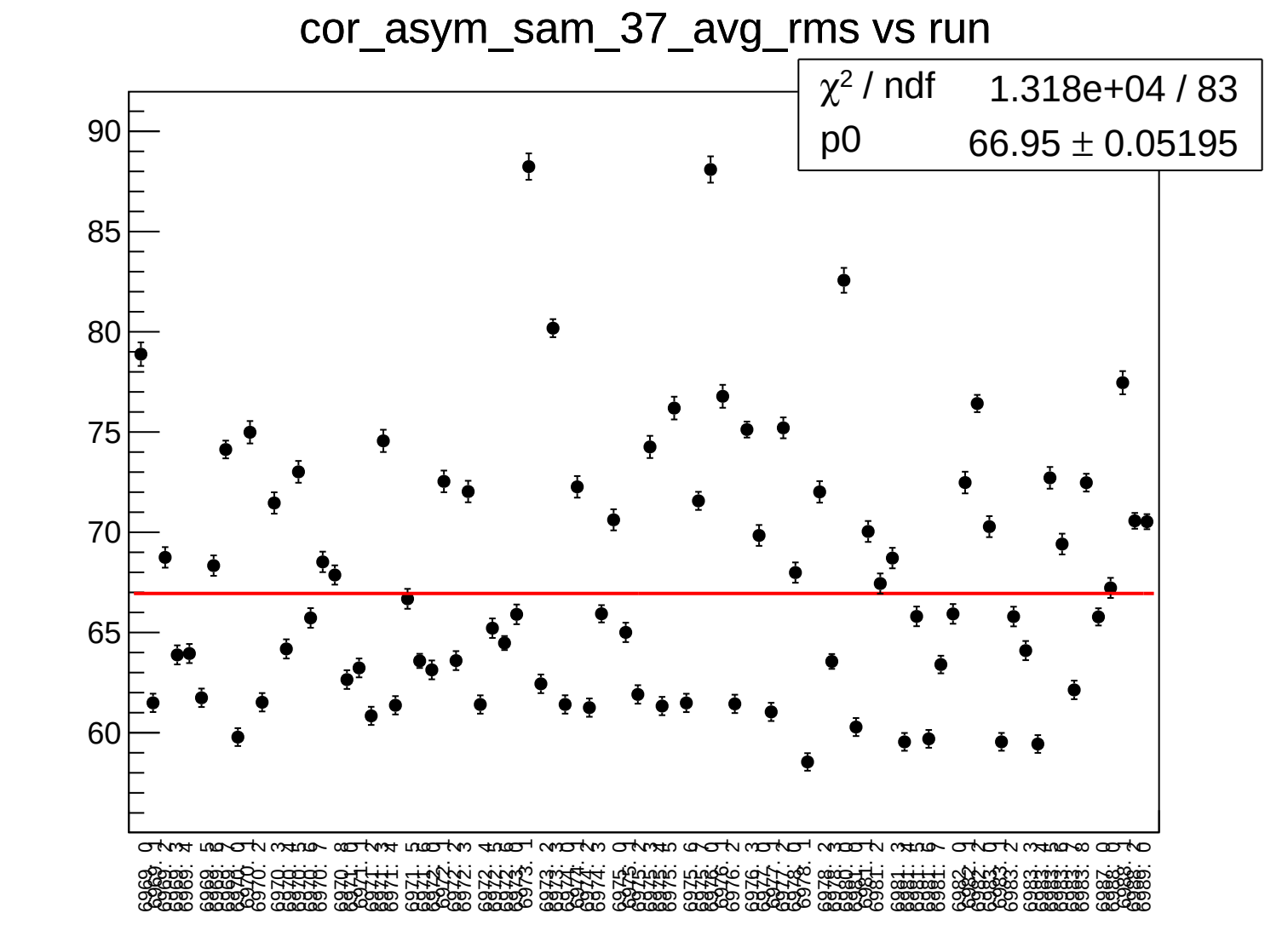

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 83.62 / 83
p0 189.8 ± 862.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −528.5
Std Dev 0
3
2
1
0
−1
−2

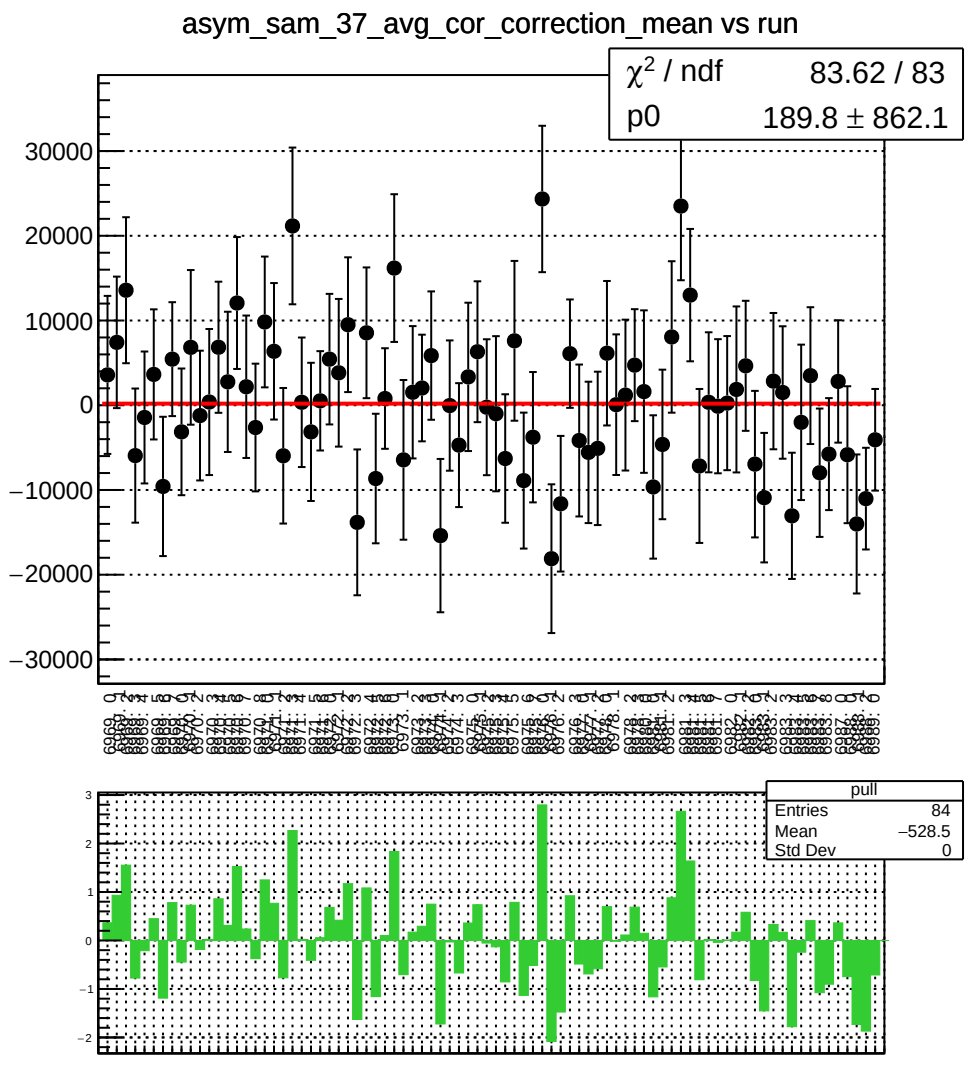

pull1D
Entries 84
Mean 0.01127
Std Dev 0.9977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

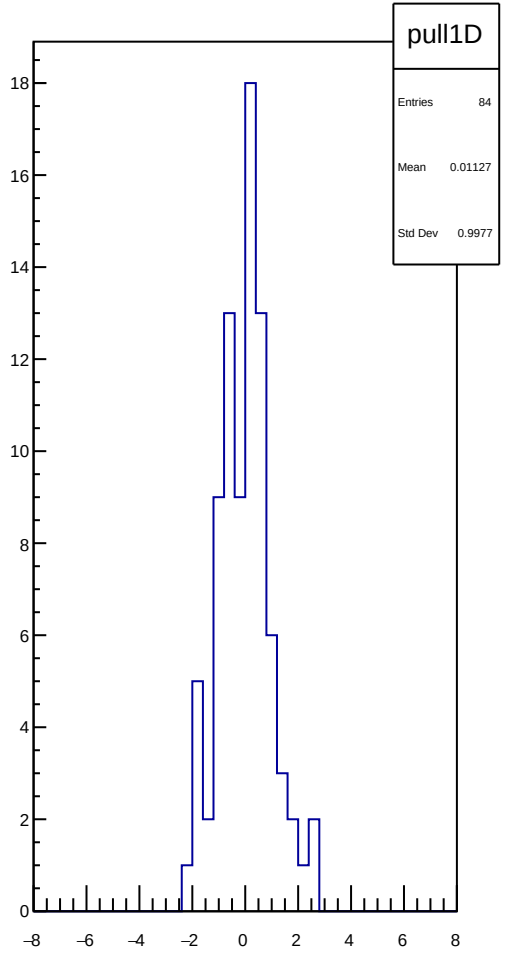

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 8074 / 83
p0 786.7 ± 0.6096
950
900
850
800
750
700

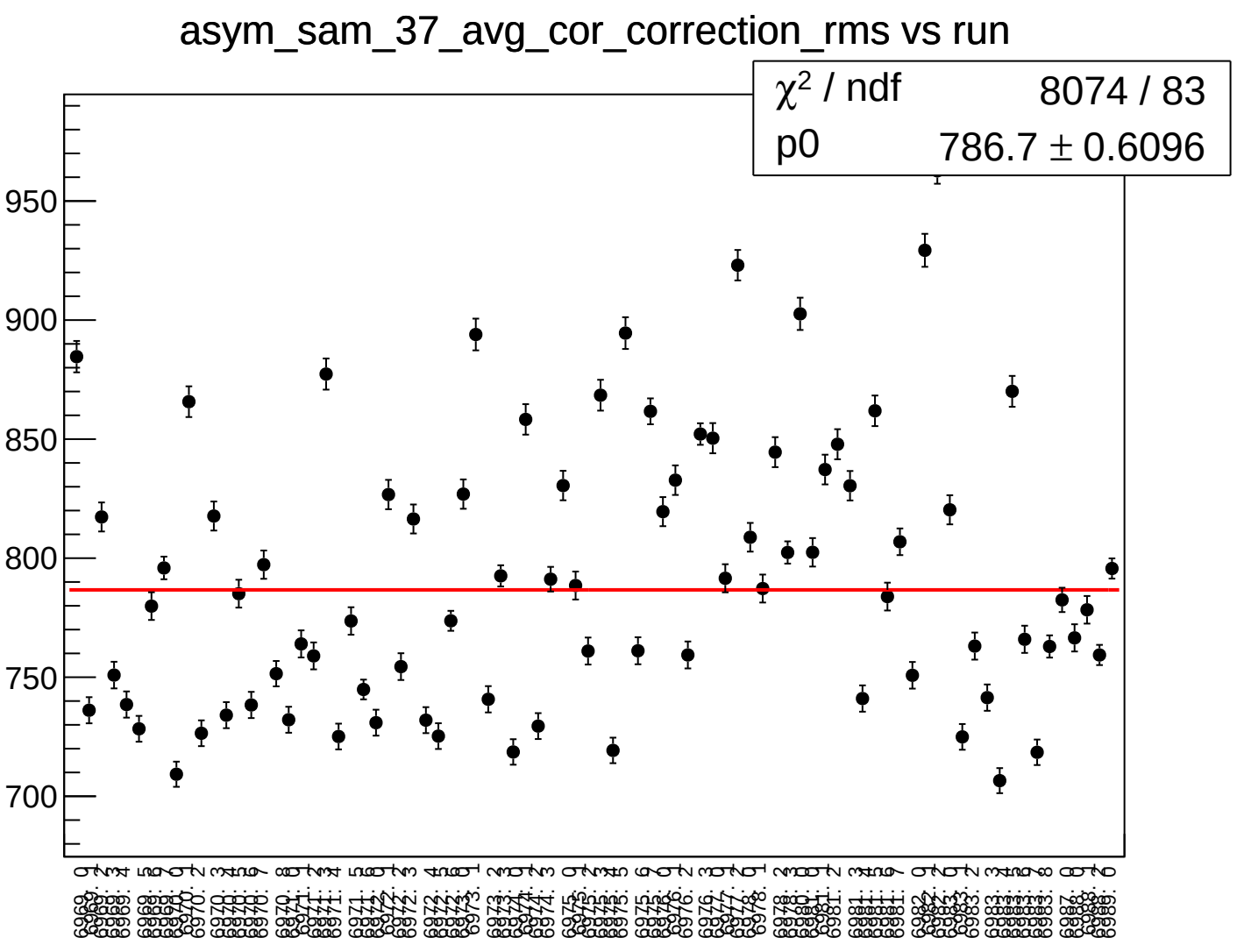

cor_asym_sam_37_avg_mean vs run
χ² / ndf 100.6 / 83
p0 −115.5 ± 73.47
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 572.6
Std Dev 0
2
1
0
−1
−2

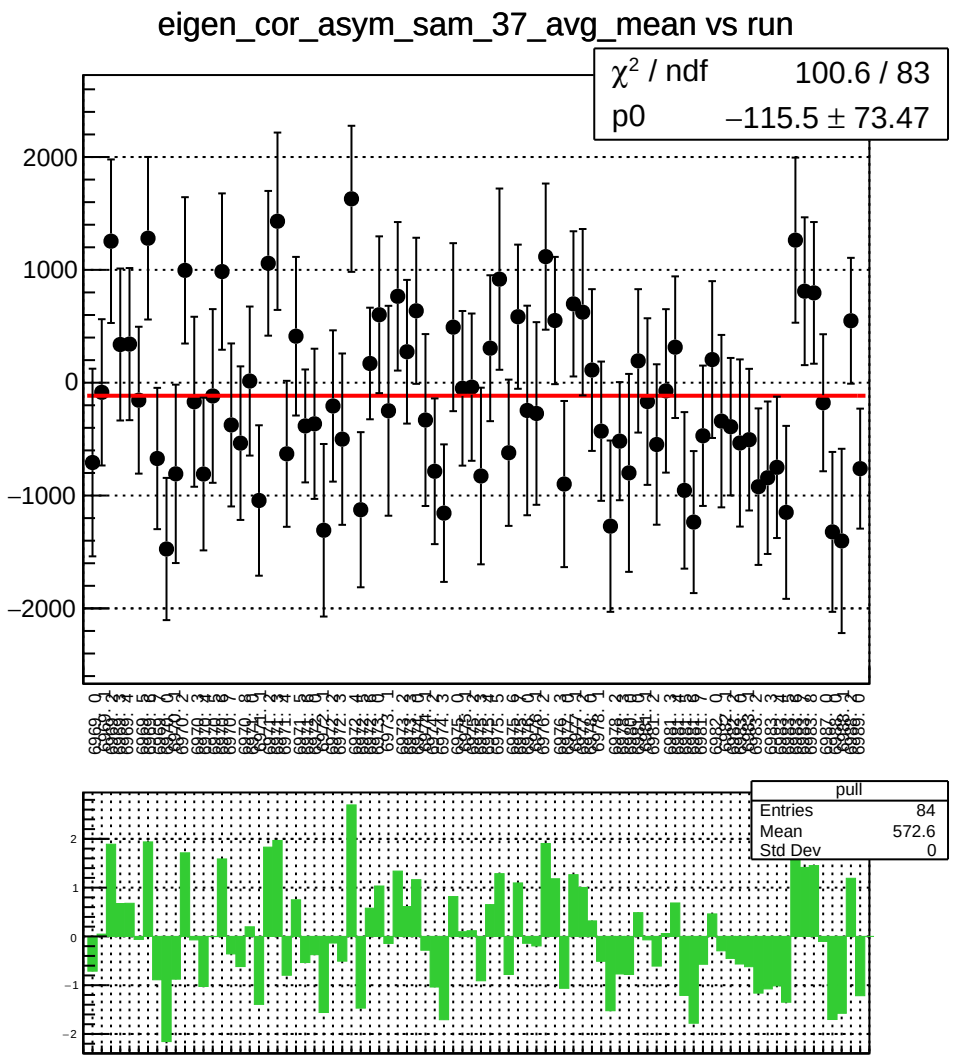

pull1D
Entries 84
Mean −0.008029
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

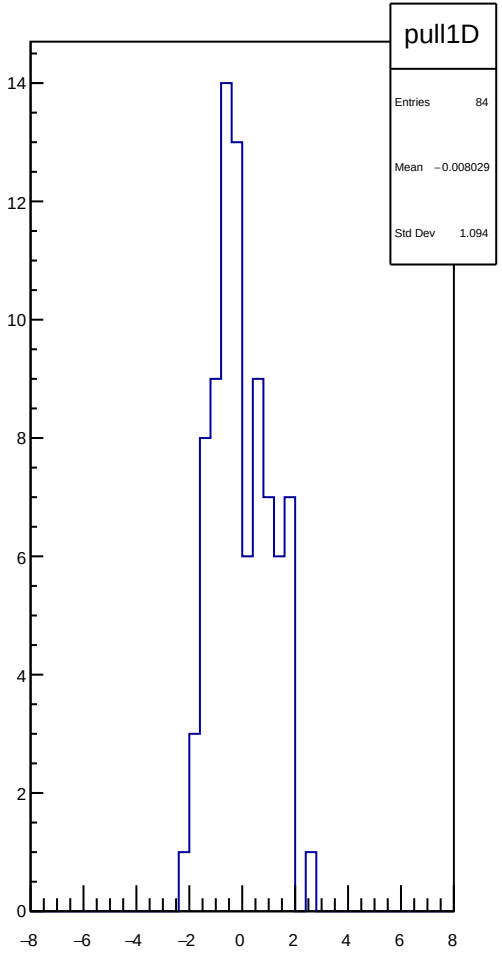

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.318e+04 / 83
p0 66.95 ± 0.05195
90
85
80
75
70
65
60

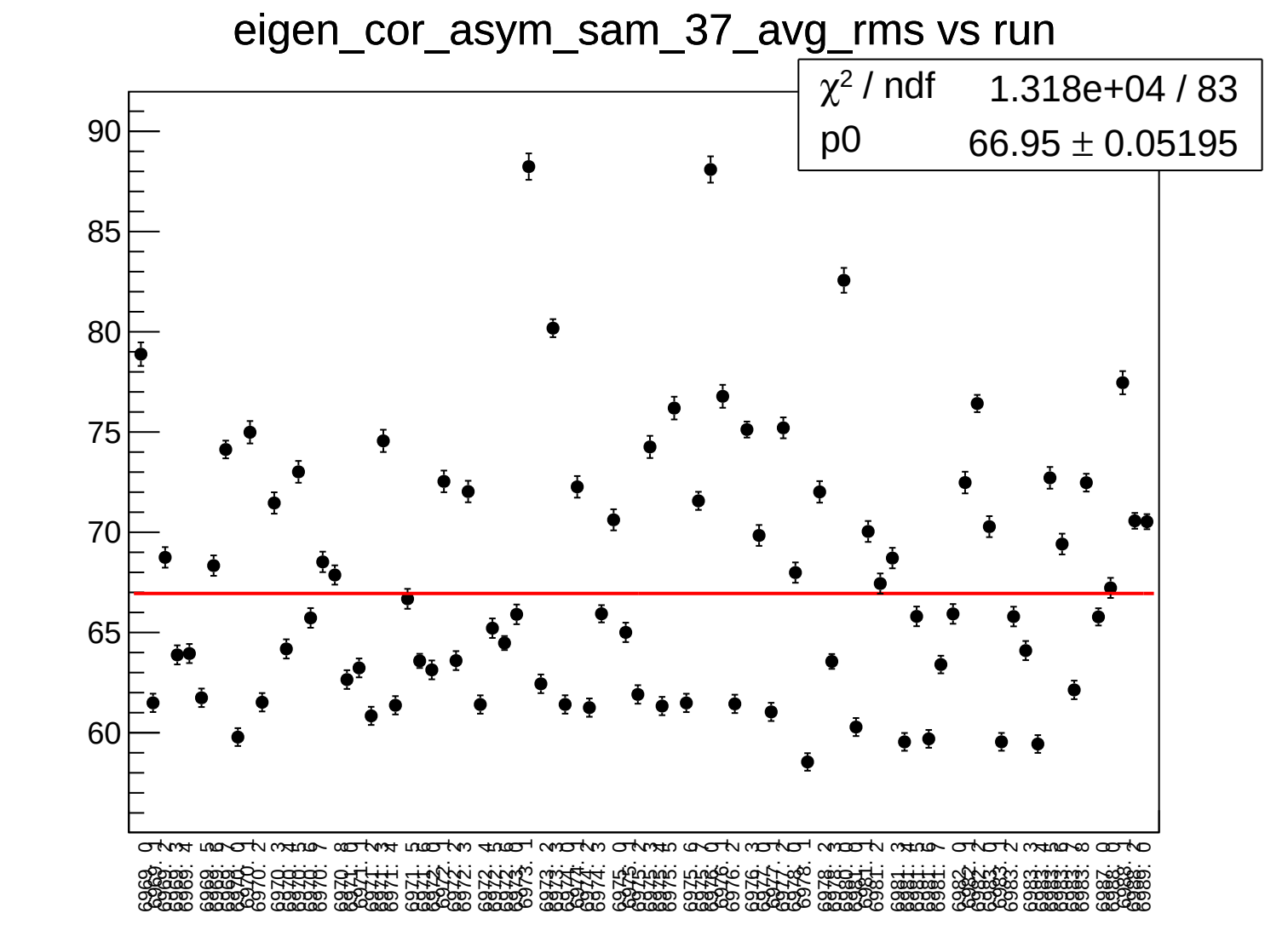

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 83.62 / 83
p0 189.8 ± 862.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −528.5
Std Dev 0
3
2
1
0
−1
−2

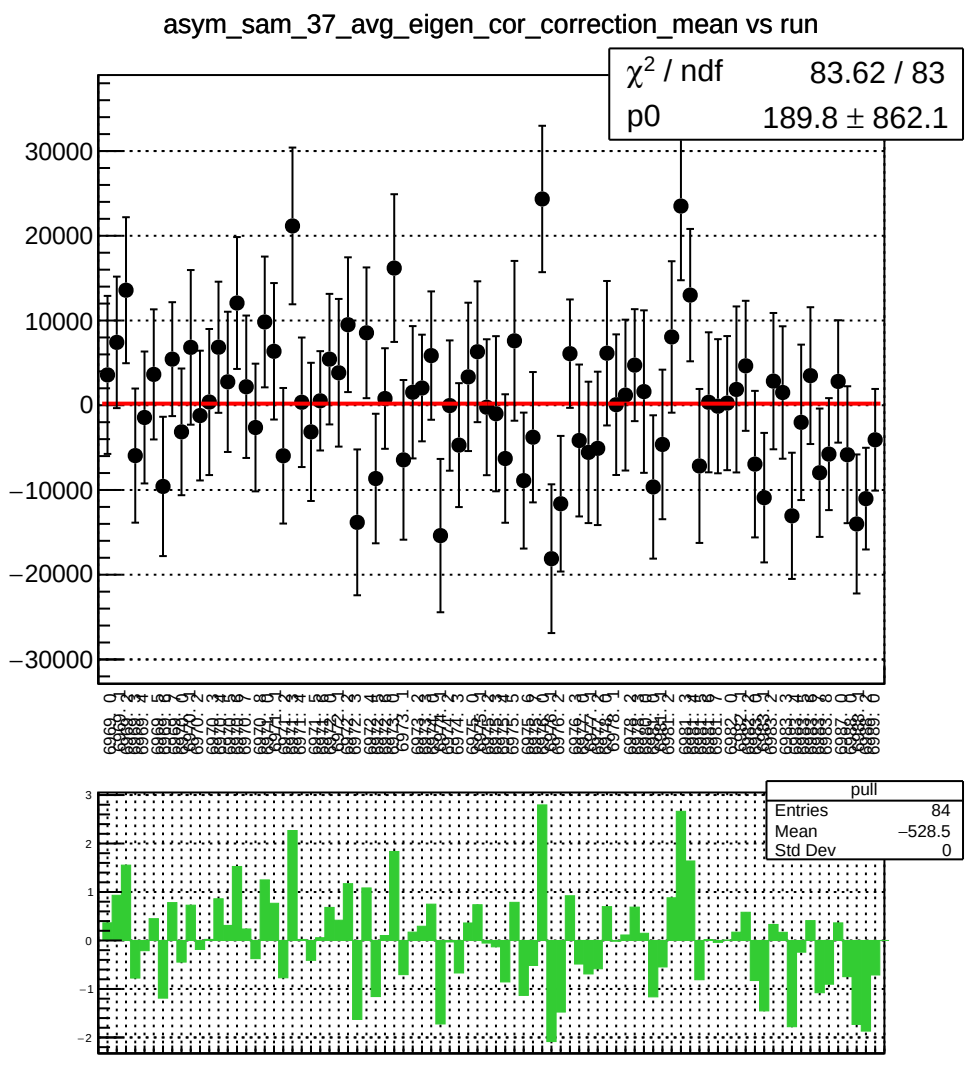

pull1D
Entries 84
Mean 0.01127
Std Dev 0.9977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

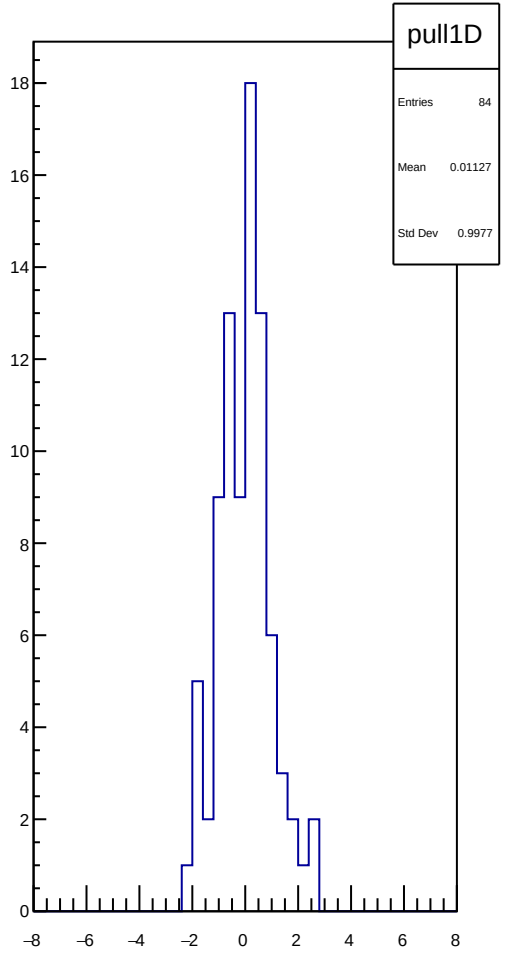

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 8074 / 83
p0 786.7 ± 0.6096
950
900
850
800
750
700

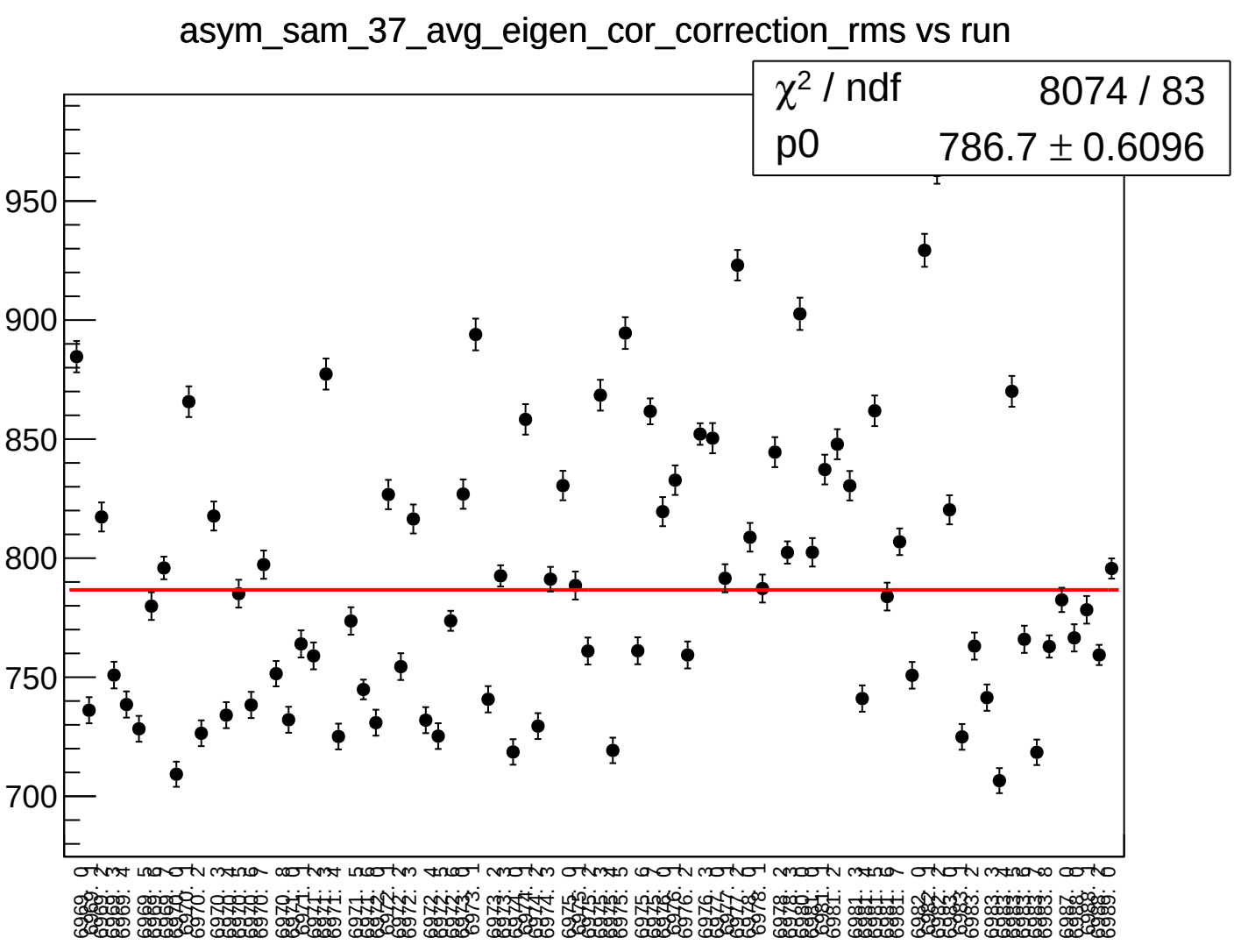

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 100.6 / 83
p0 −115.5 ± 73.47
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 572.6
Std Dev 0
2
1
0
−1
−2

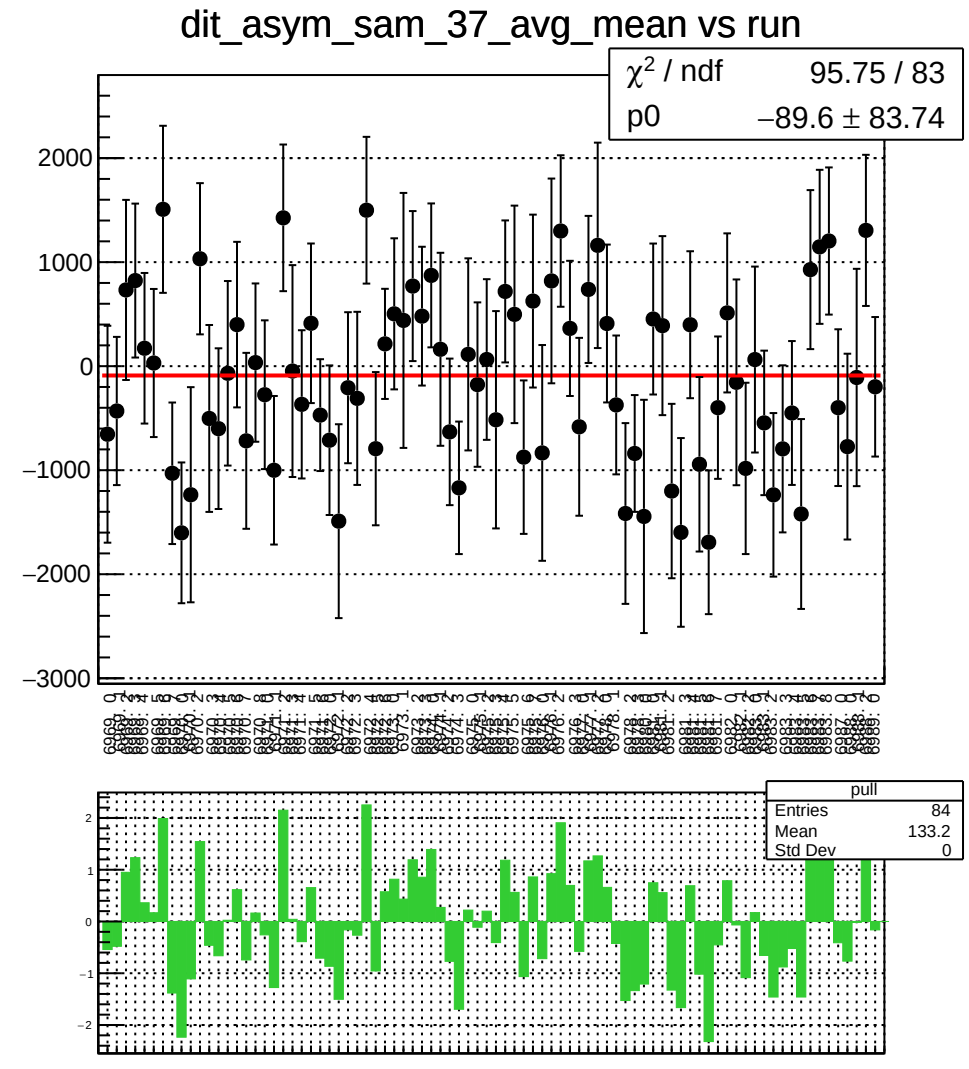

pull1D
Entries 84
Mean −0.008029
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

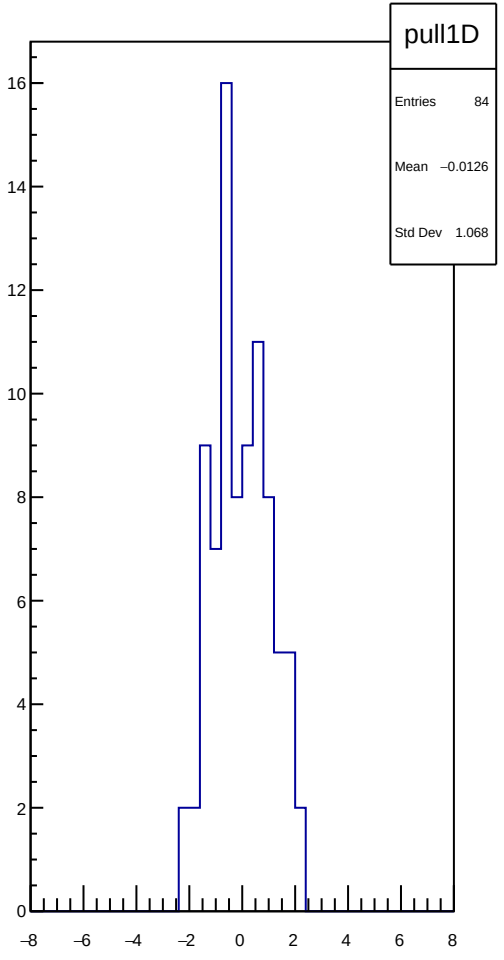

eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.318e+04 / 83
p0 66.95 ± 0.05195
90
85
80
75
70
65
60

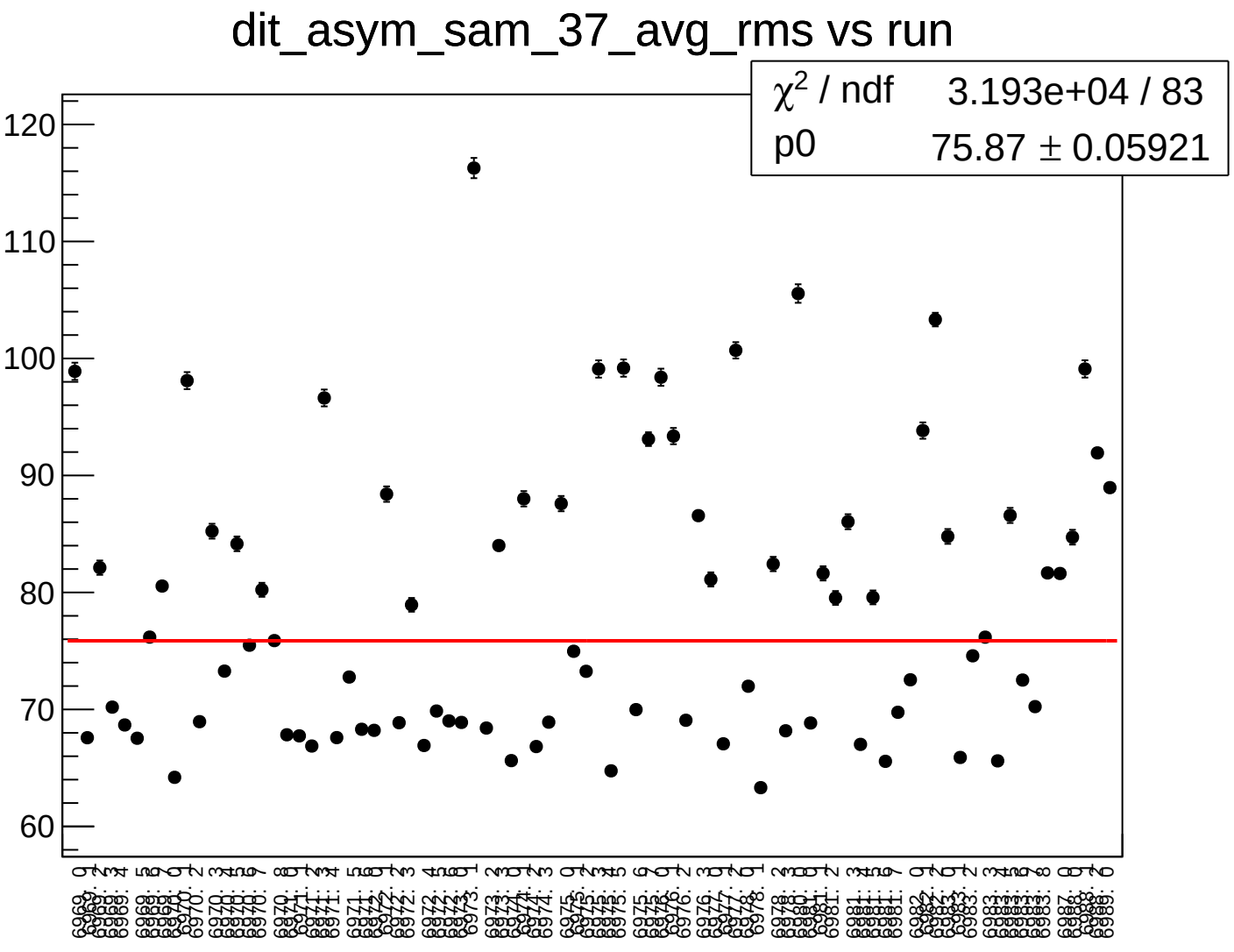

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.62 / 83
p0 189.8 ± 862.1
pull
Entries 84
Mean −528.5
Std Dev 0

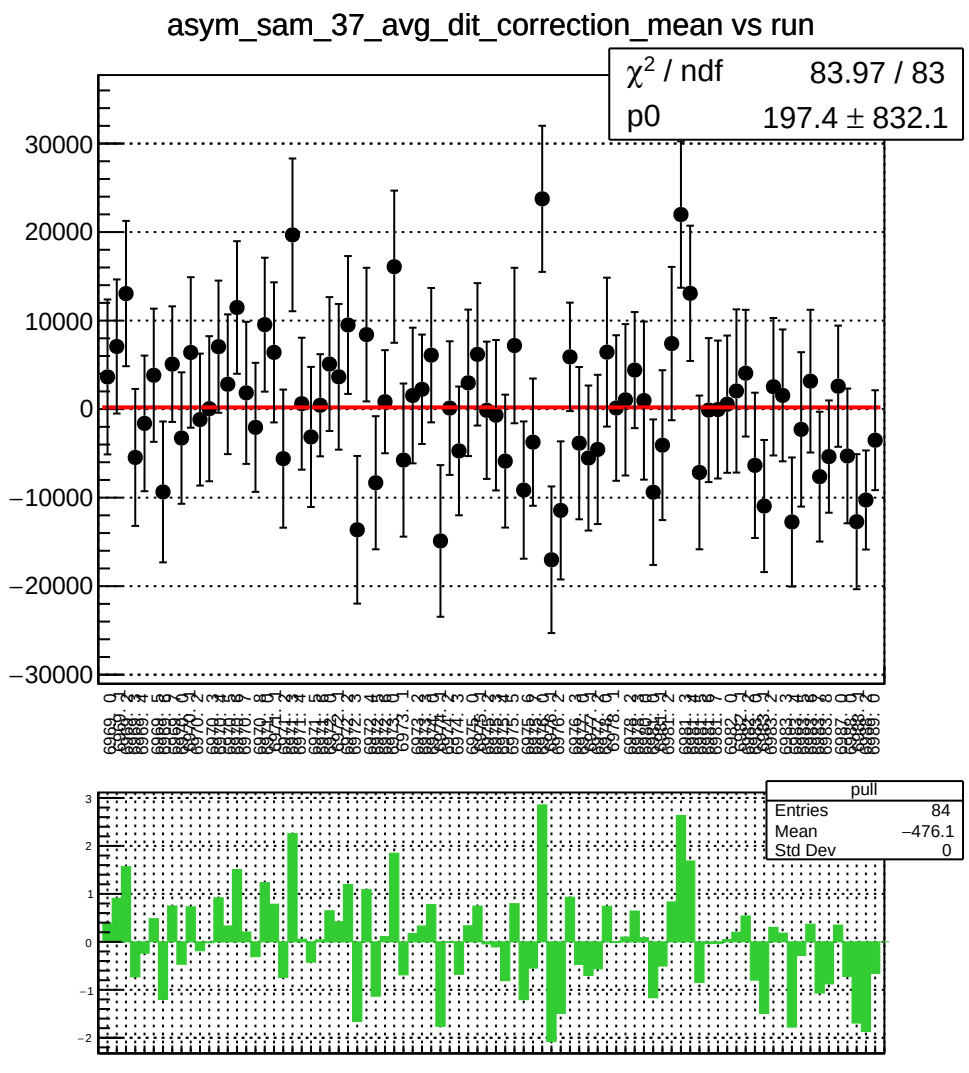

pull1D
Entries 84
Mean 0.01127
Std Dev 0.9977

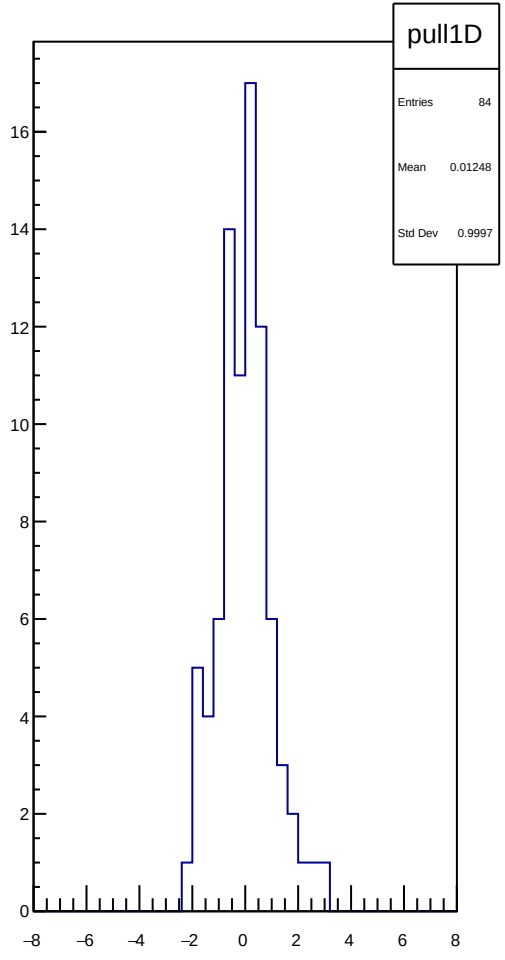

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 8074 / 83
p0 786.7 ± 0.6096
950
900
850
800
750
700

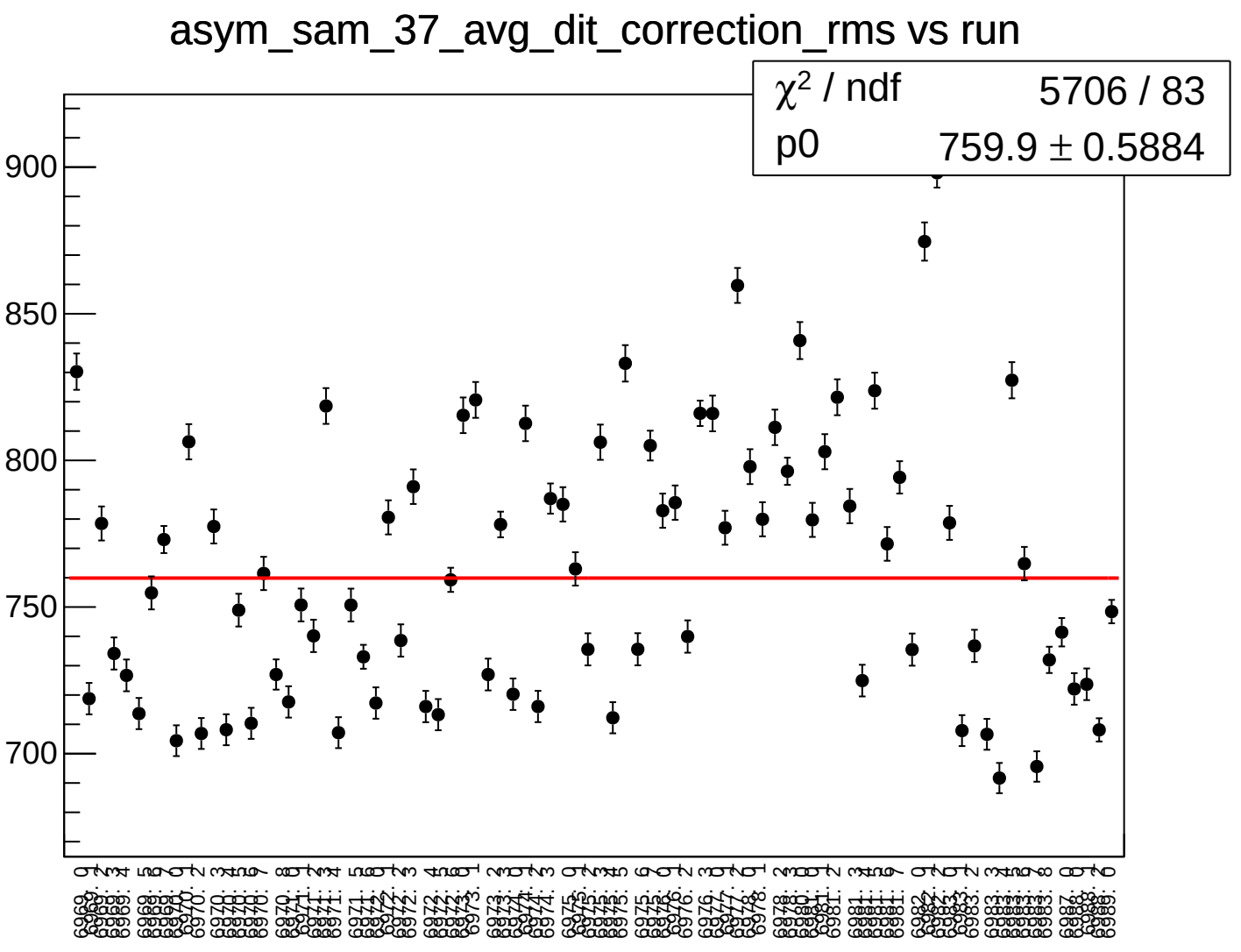

dit_asym_sam_37_avg_mean vs run
χ² / ndf 95.75 / 83
p0 −89.6 ± 83.74
pull
Entries 84
Mean 133.2
Std Dev 0

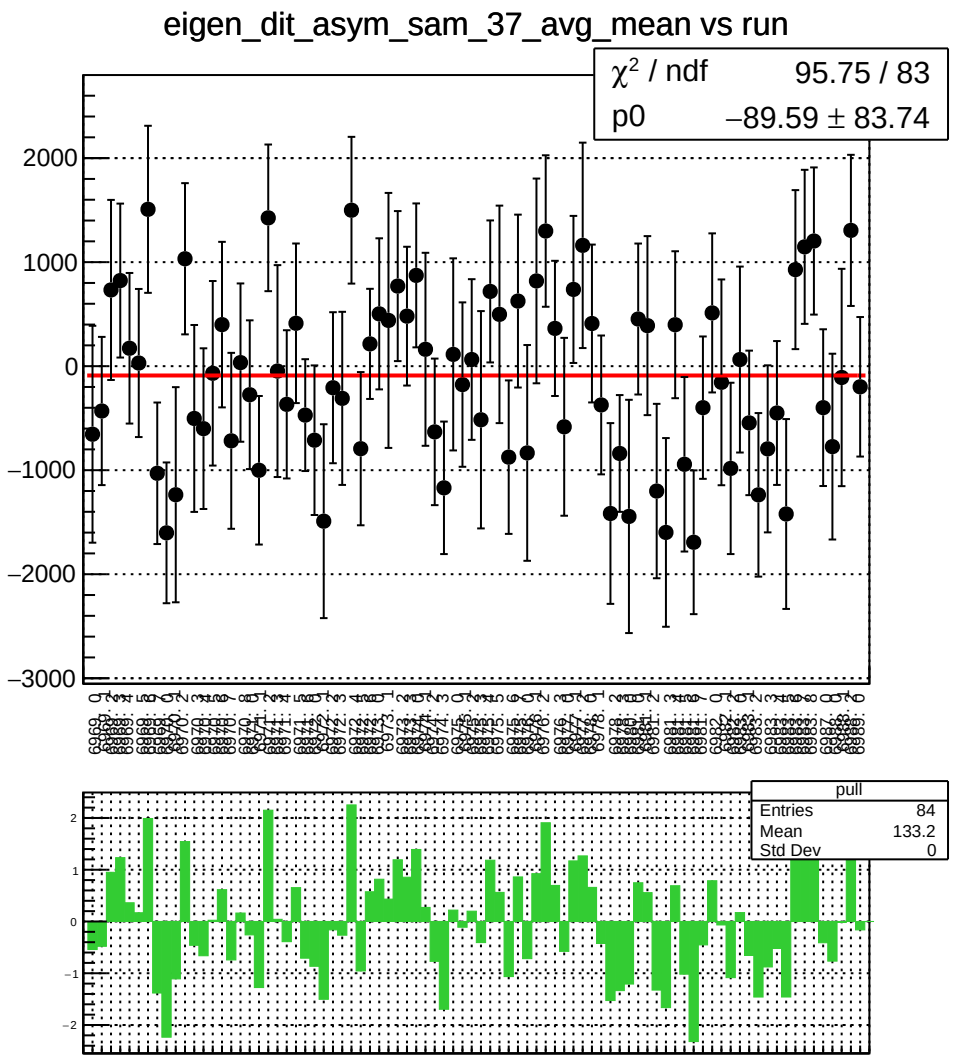

pull1D
Entries 84
Mean −0.0126
Std Dev 1.068

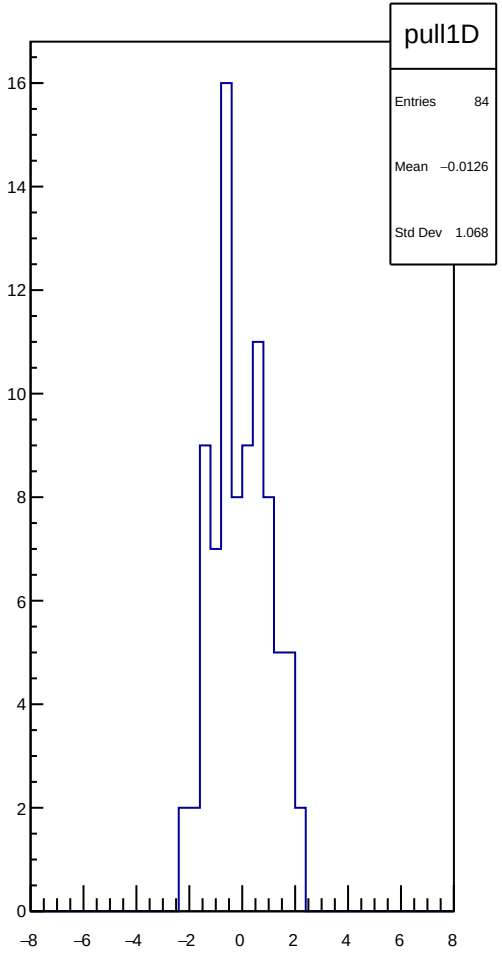

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.193e+04 / 83
p0 75.87 ± 0.05921
120
110
100
90
80
70
60

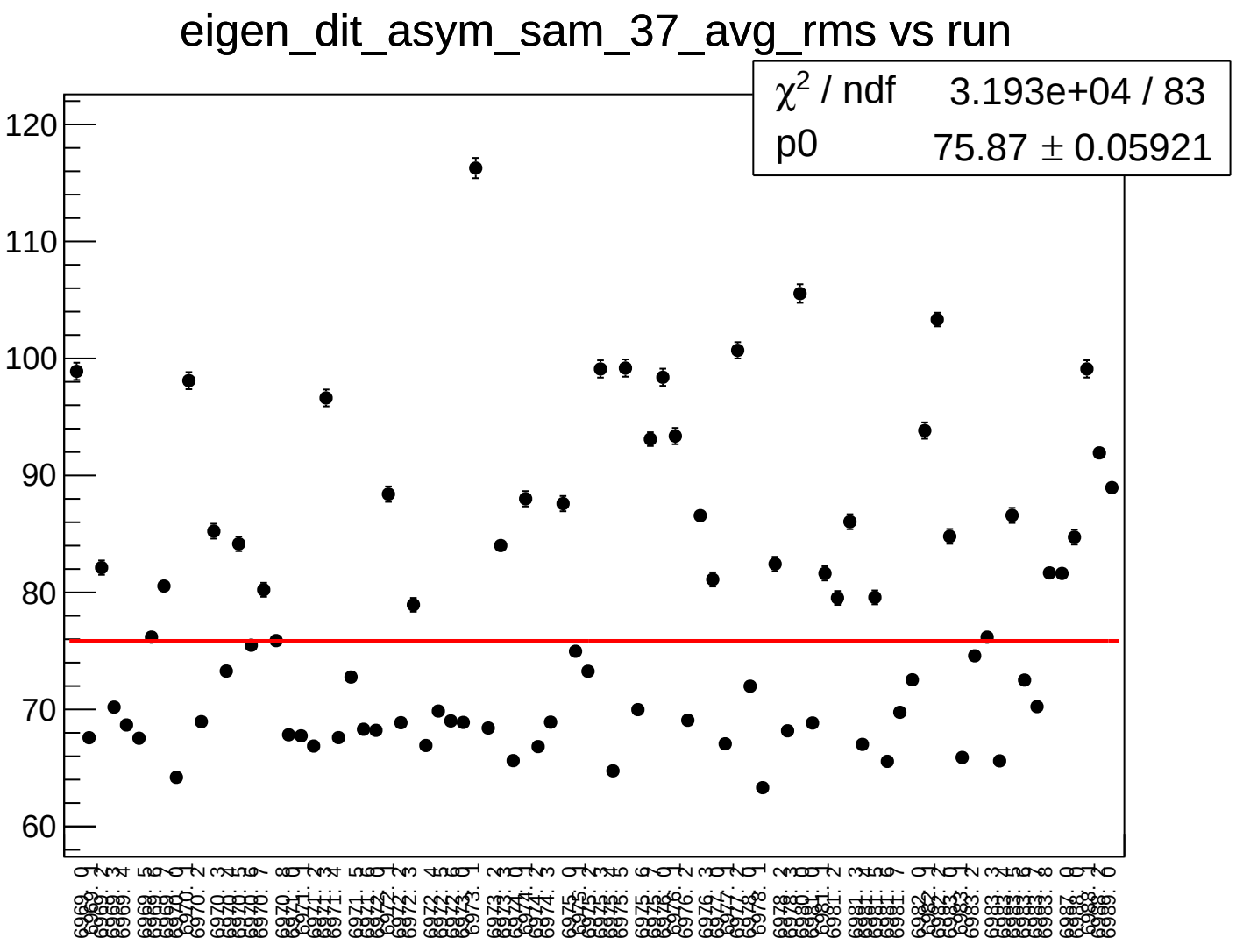

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 83.97 / 83
p0 197.4 ± 832.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −476.1
Std Dev 0
3
2
1
0
−1
−2

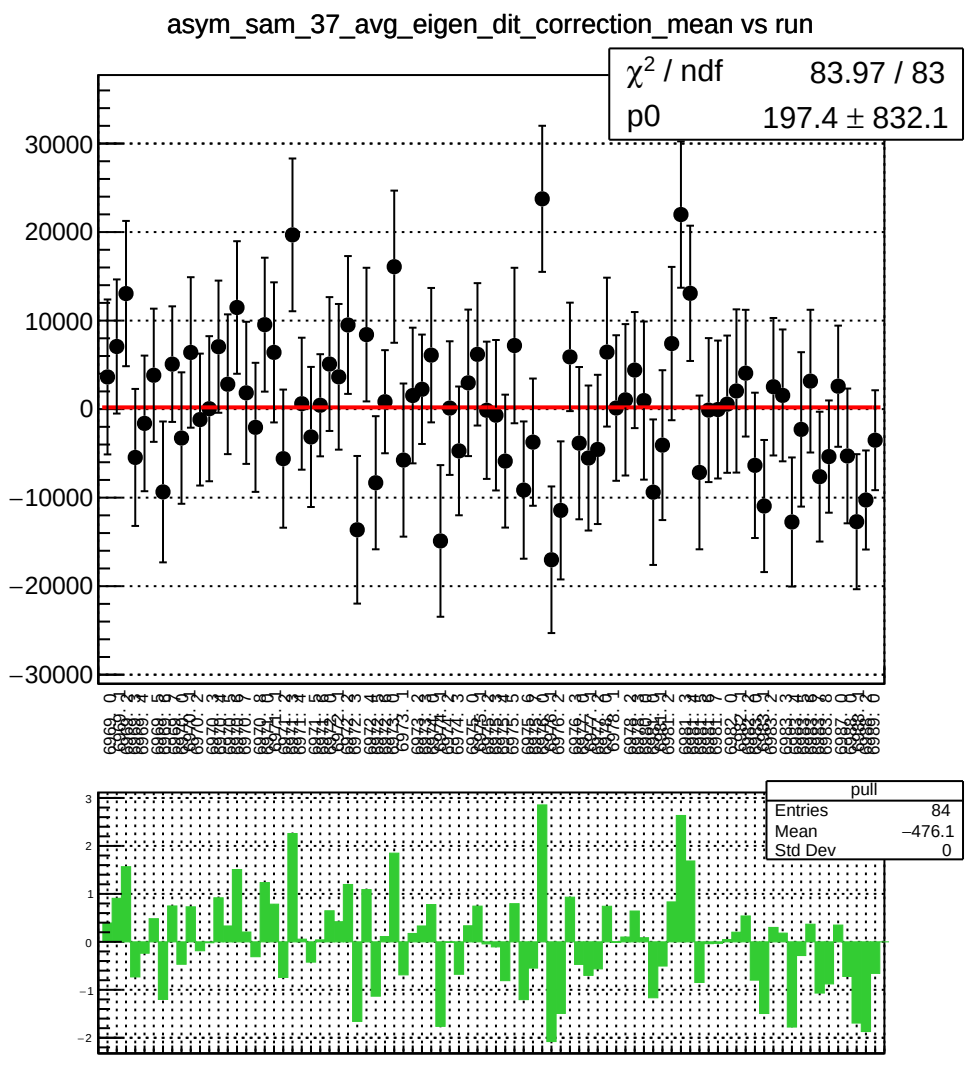

pull1D
Entries 84
Mean 0.01248
Std Dev 0.9997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

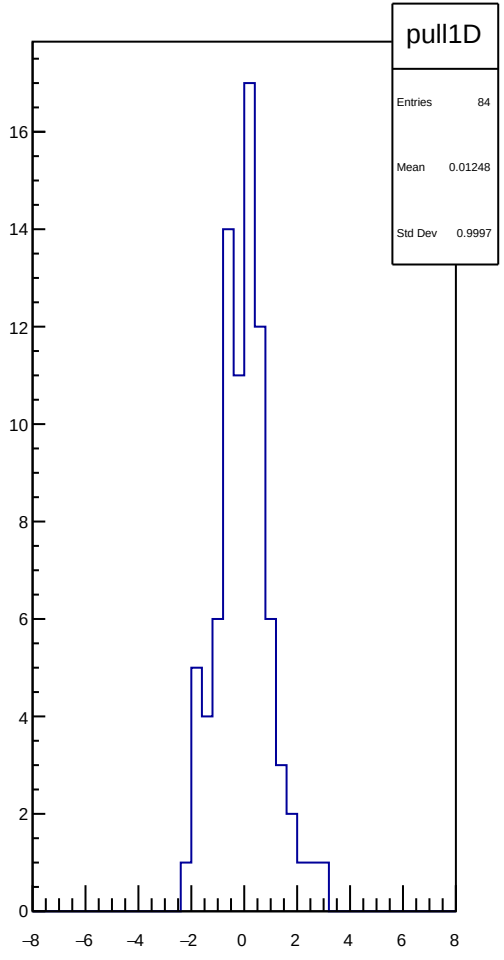

asym_sam_37_avg_dit_correction_rms vs run
χ^2 / ndf 5706 / 83
p0 759.9 ± 0.5884
900
850
800
750
700

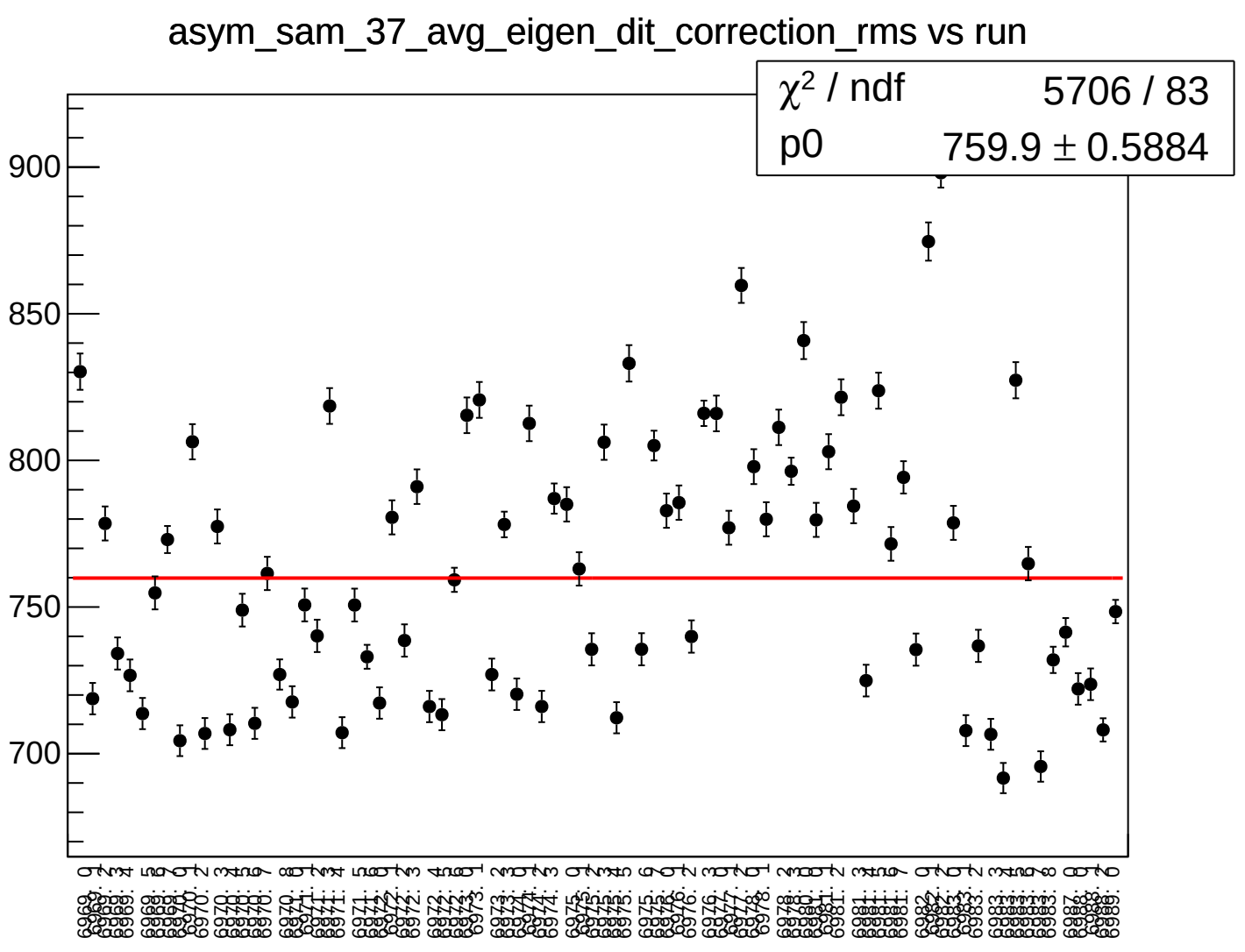

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 95.75 / 83
p0 −89.59 ± 83.74
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 133.2
Std Dev 0
2
1
0
−1
−2

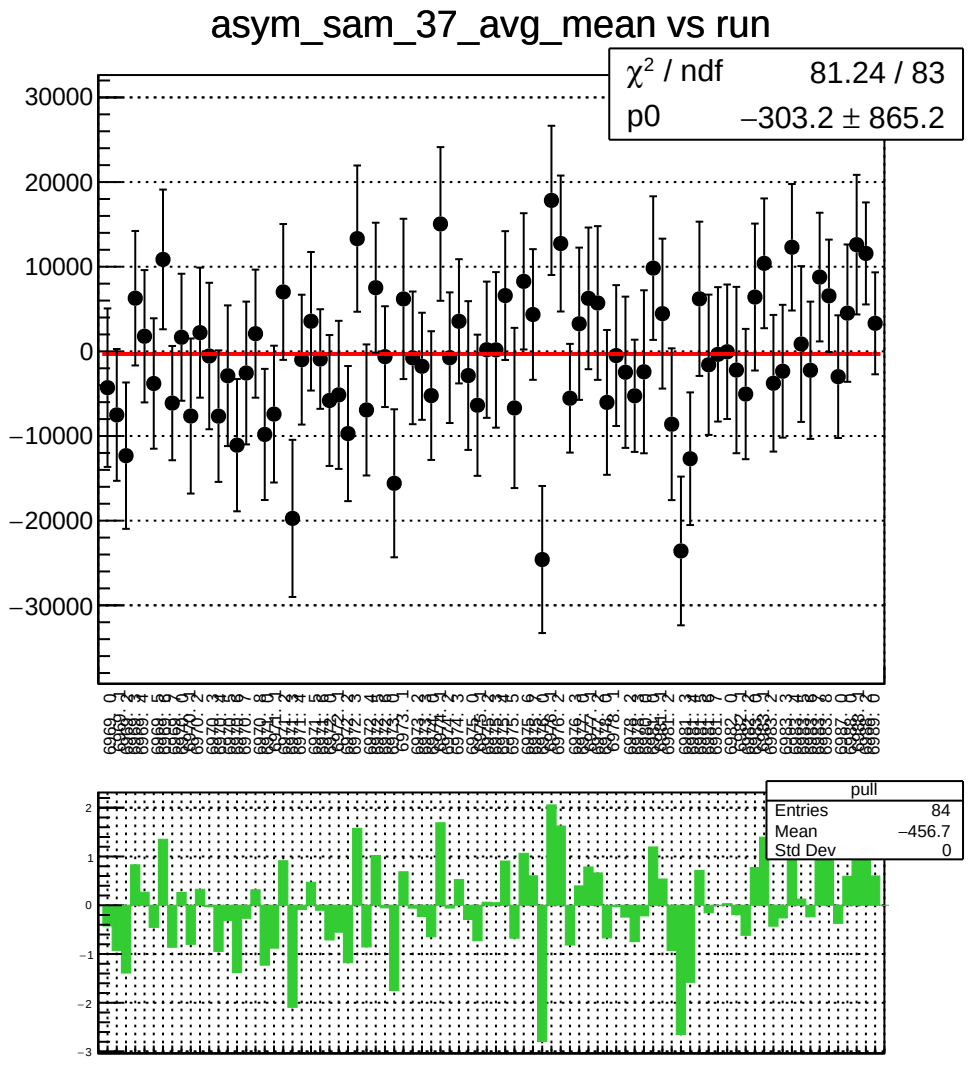

pull1D
Entries 84
Mean −0.0126
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

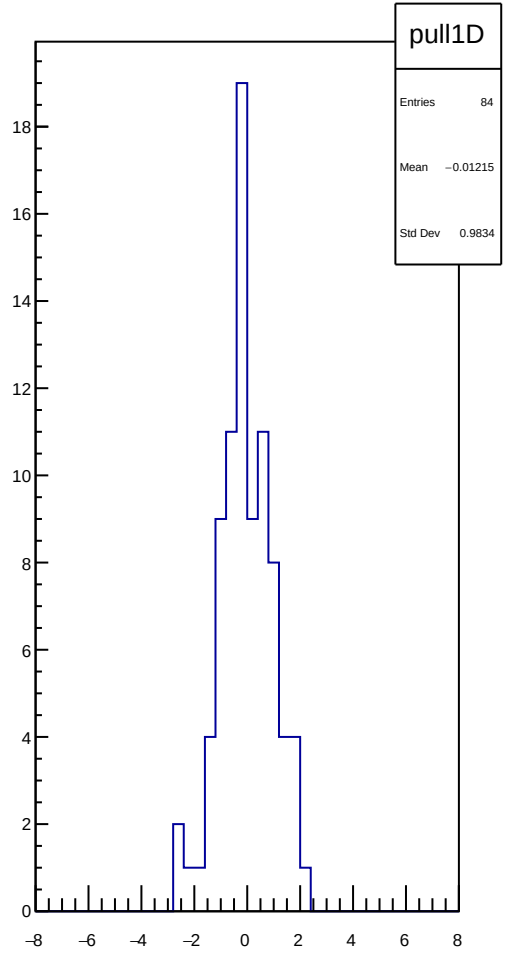

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.193e+04 / 83
p0 75.87 ± 0.05921
120
110
100
90
80
70
60

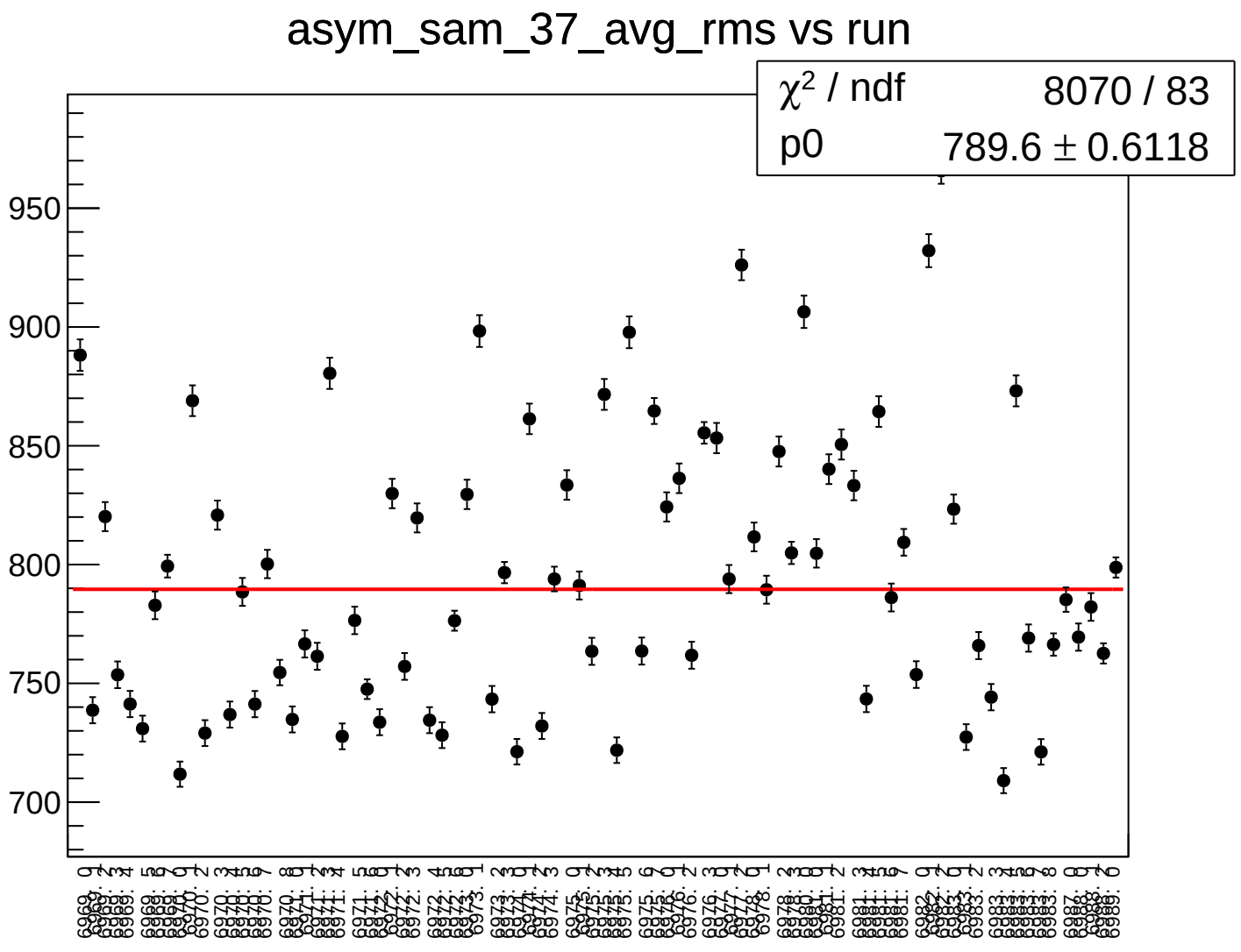

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.97 / 83
p0 197.4 ± 832.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −476.1
Std Dev 0
3
2
1
0
−1
−2

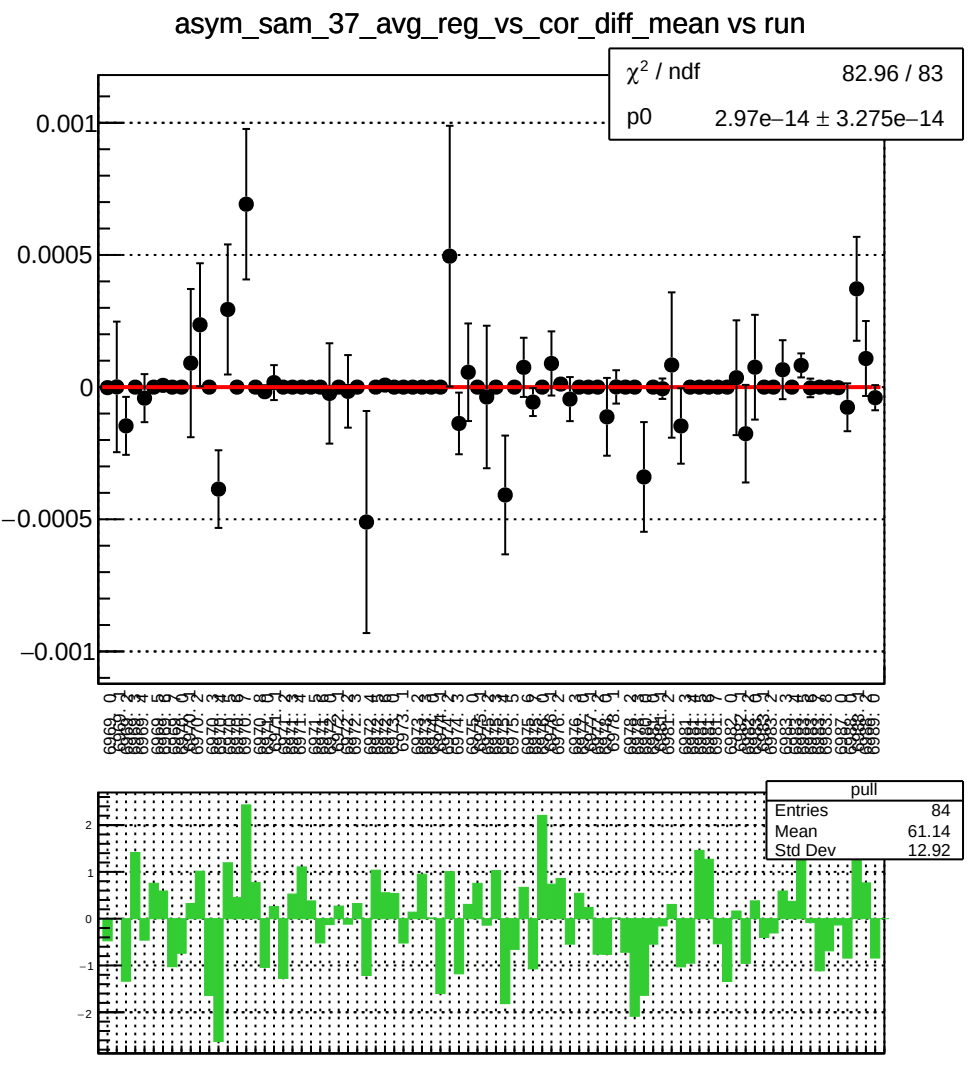

pull1D
Entries 84
Mean 0.01248
Std Dev 0.9997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

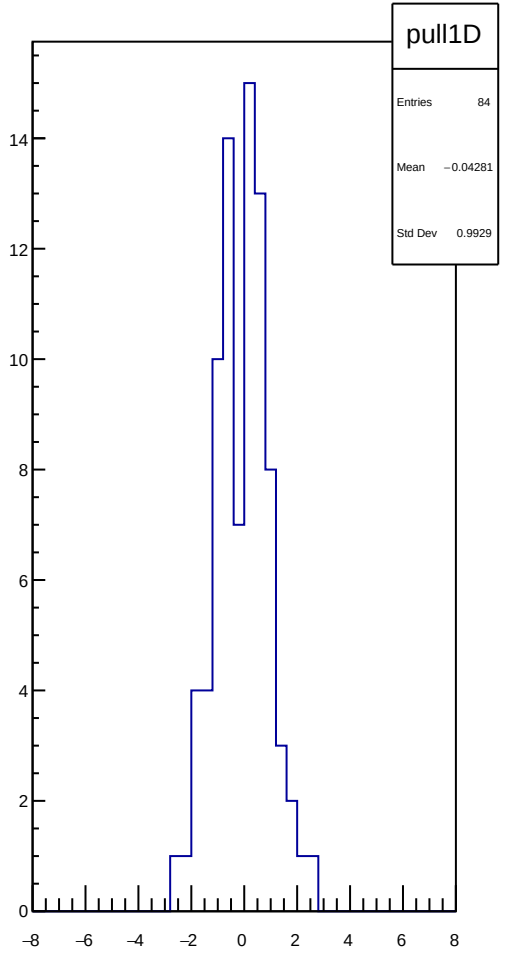

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 5706 / 83
p0 759.9 ± 0.5884
900
850
800
750
700

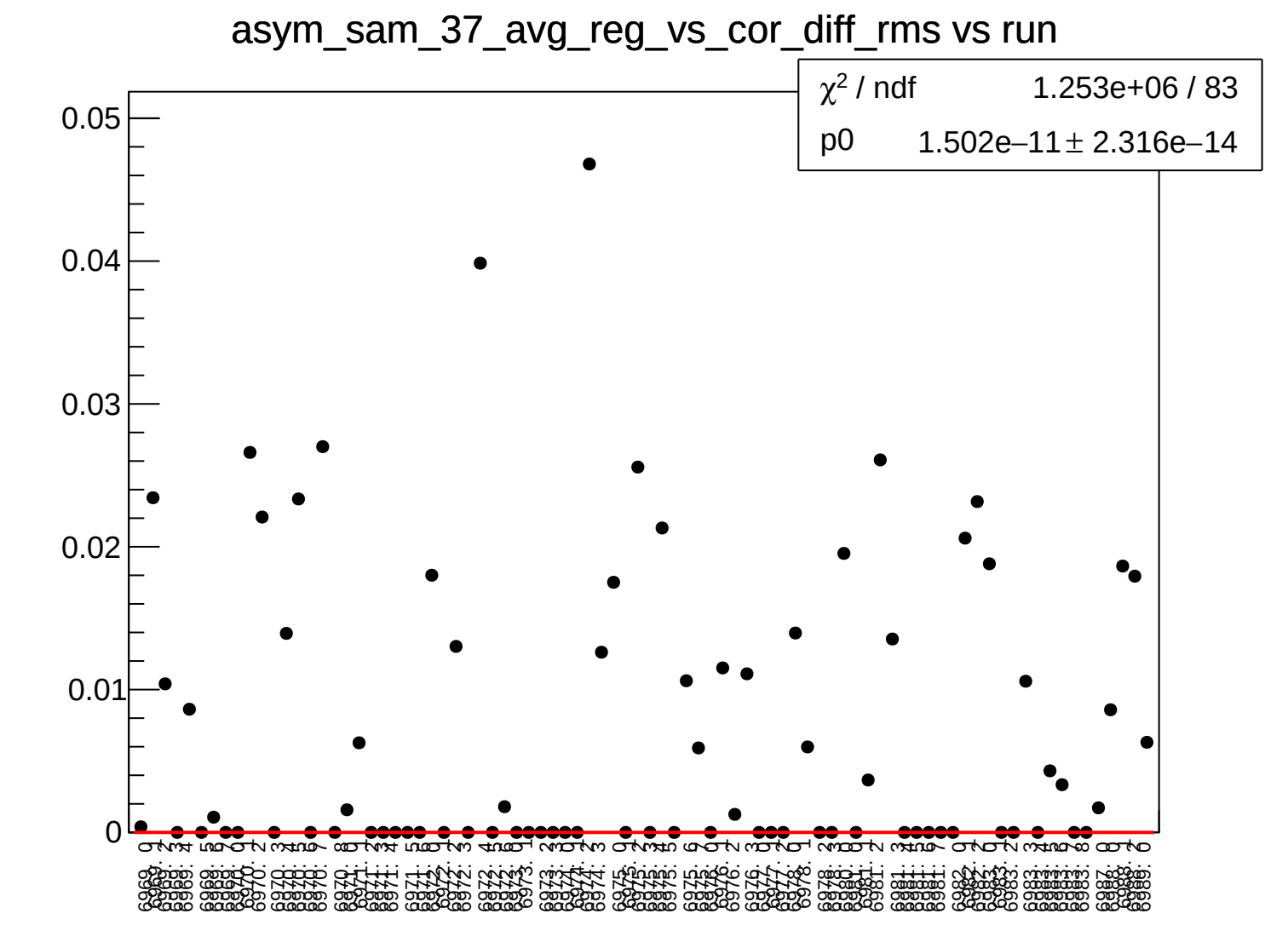

asym_sam_37_avg_mean vs run
χ² / ndf 81.24 / 83
p0 −303.2 ± 865.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −456.7
Std Dev 0
2
1
0
−1
−2
−3

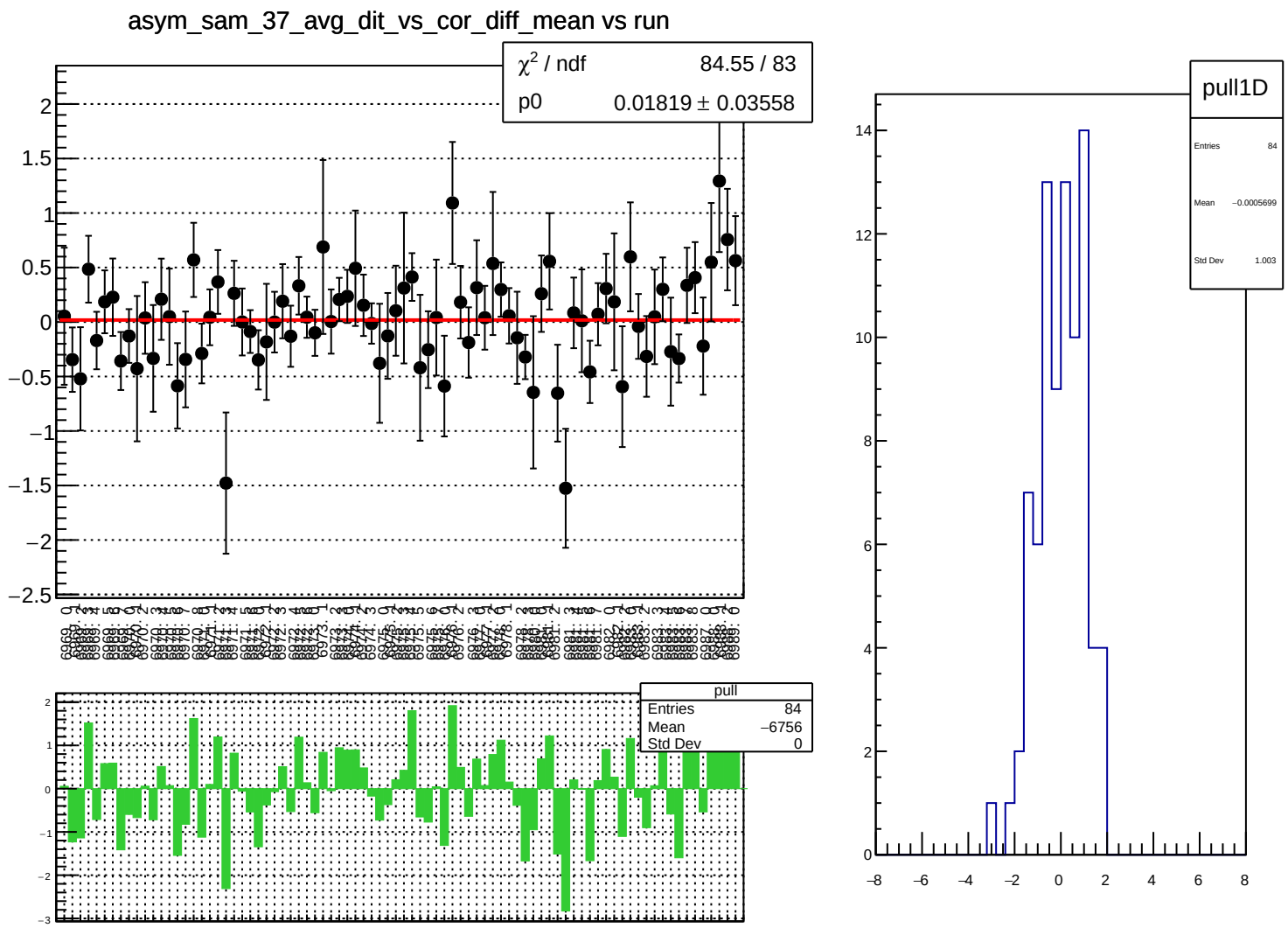

pull1D
Entries 84
Mean −0.01215
Std Dev 0.9834
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

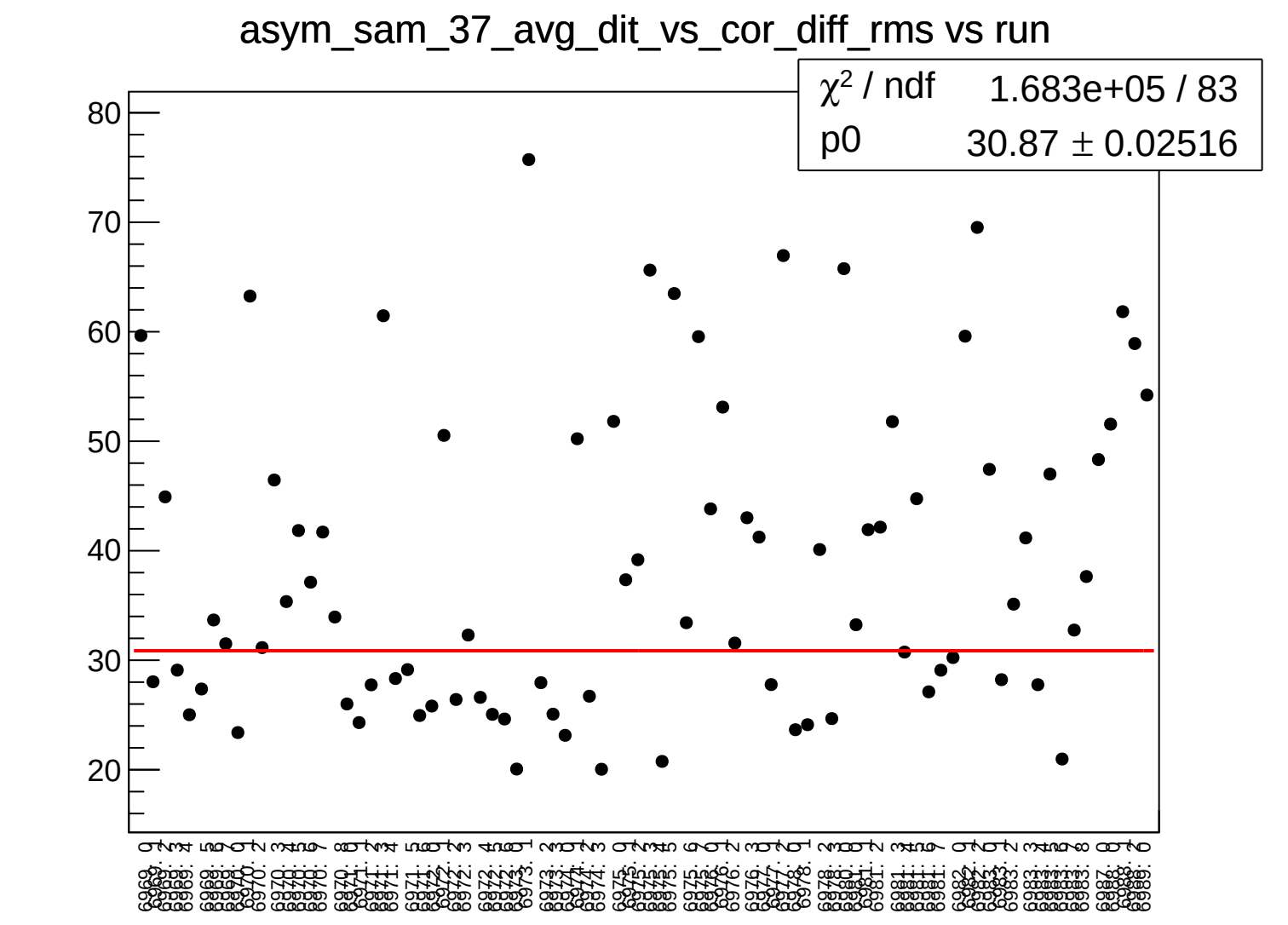

asym_sam_37_avg_rms vs run
χ² / ndf 8070 / 83
p0 789.6 ± 0.6118
950
900
850
800
750
700

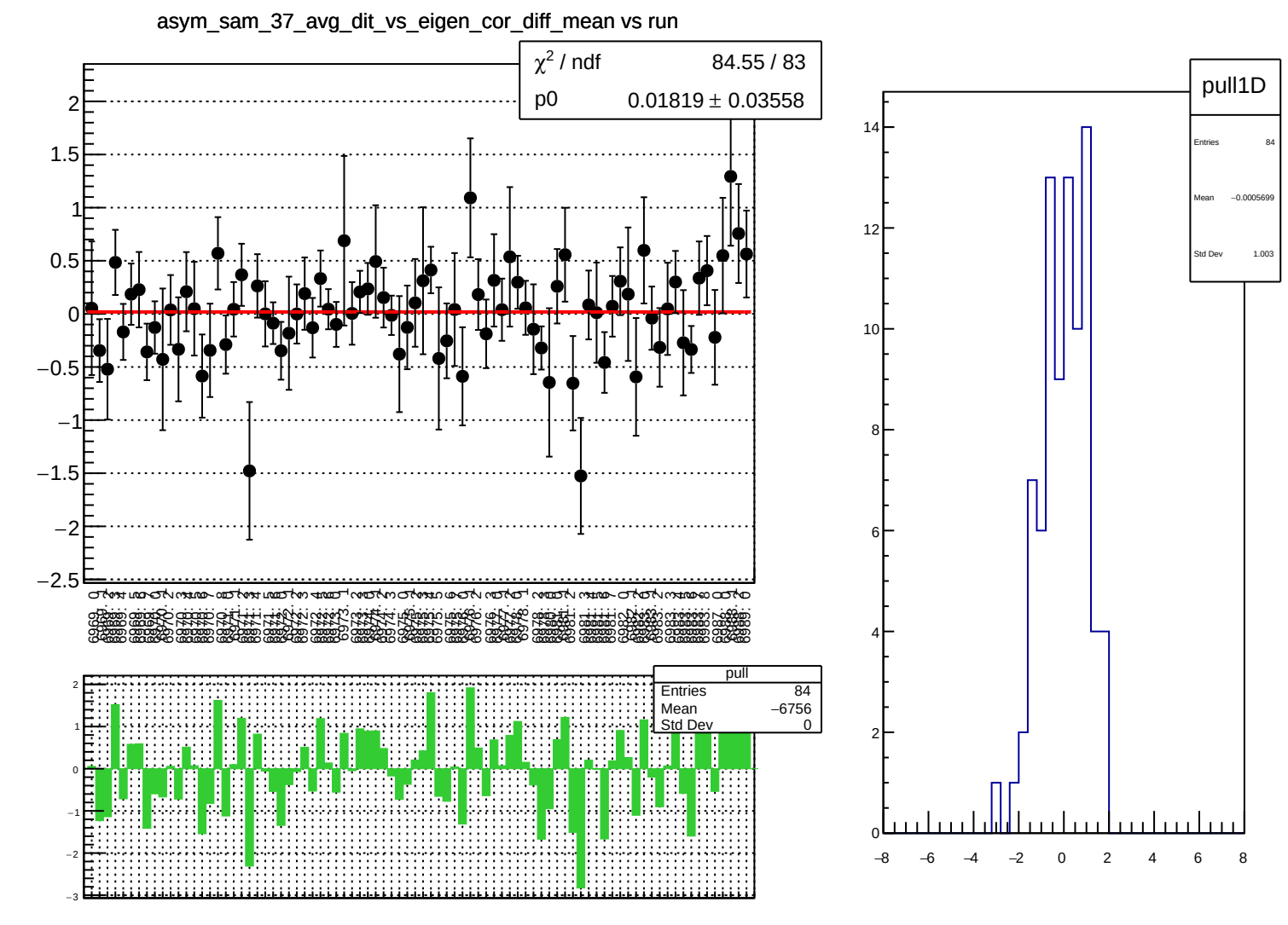

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.96 / 83
p0 2.97e−14 ± 3.275e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean 61.14
Std Dev 12.92
2
1
0
−1
−2

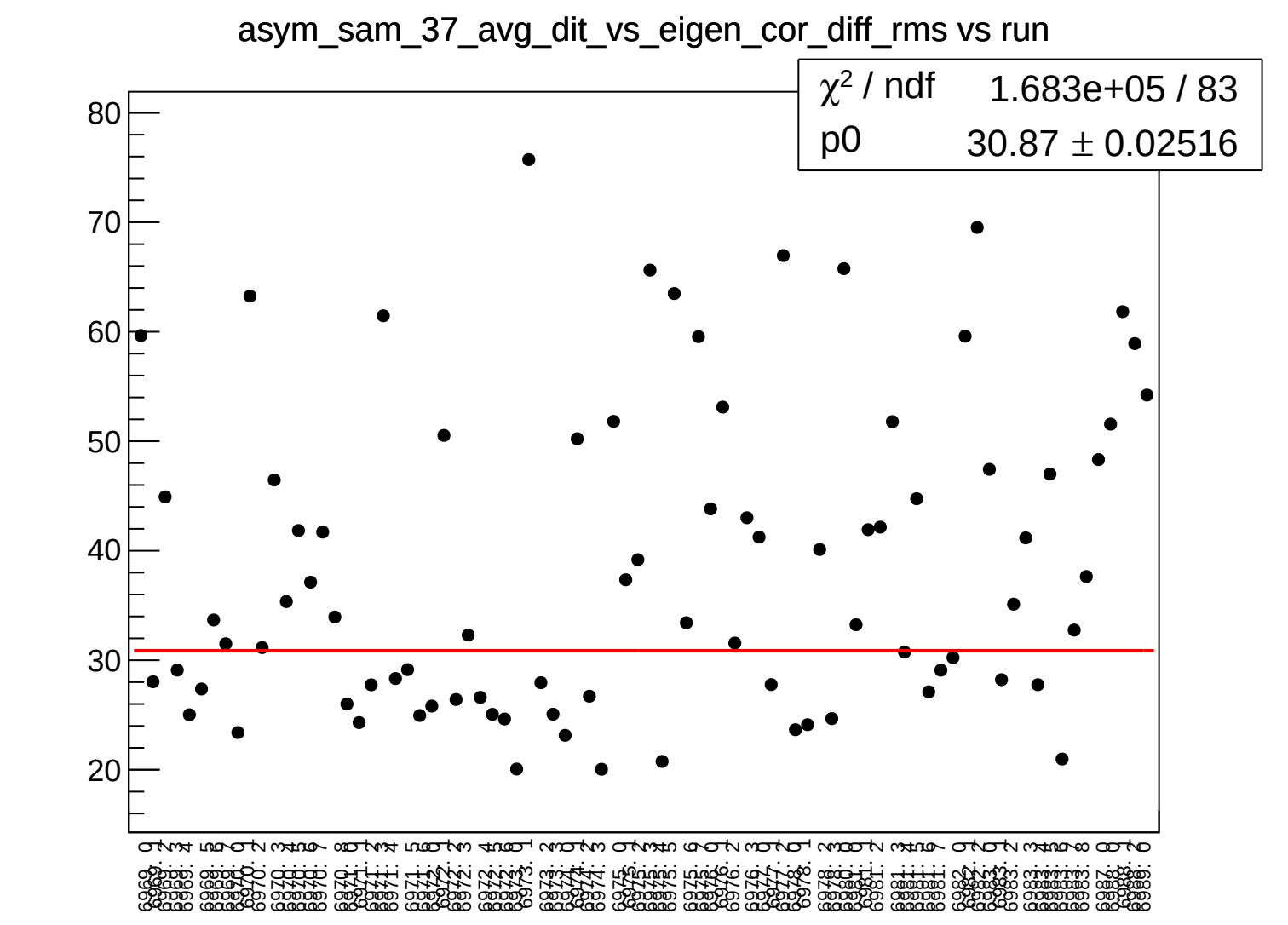

pull1D
Entries 84
Mean −0.04281
Std Dev 0.9929
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

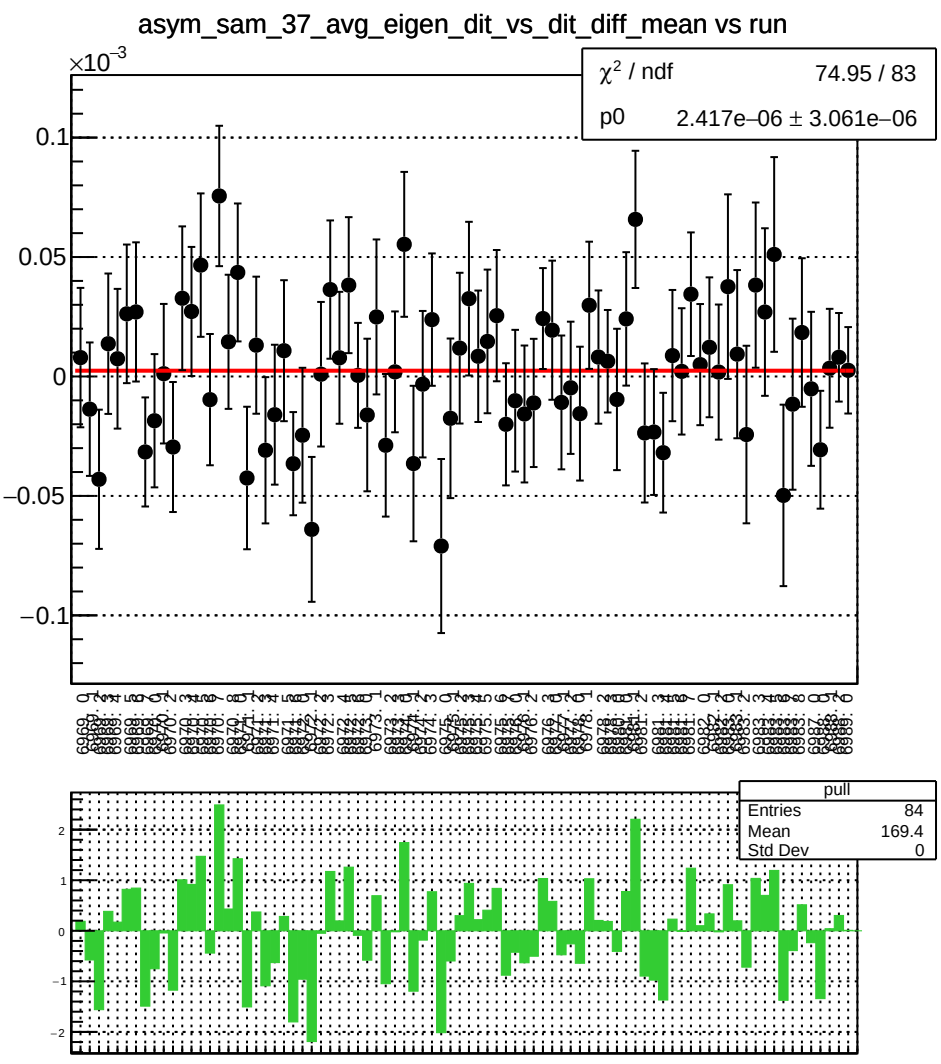

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.253e+06 / 83
p0 1.502e−11 ± 2.316e−14
0.05
0.04
0.03
0.02
0.01
0

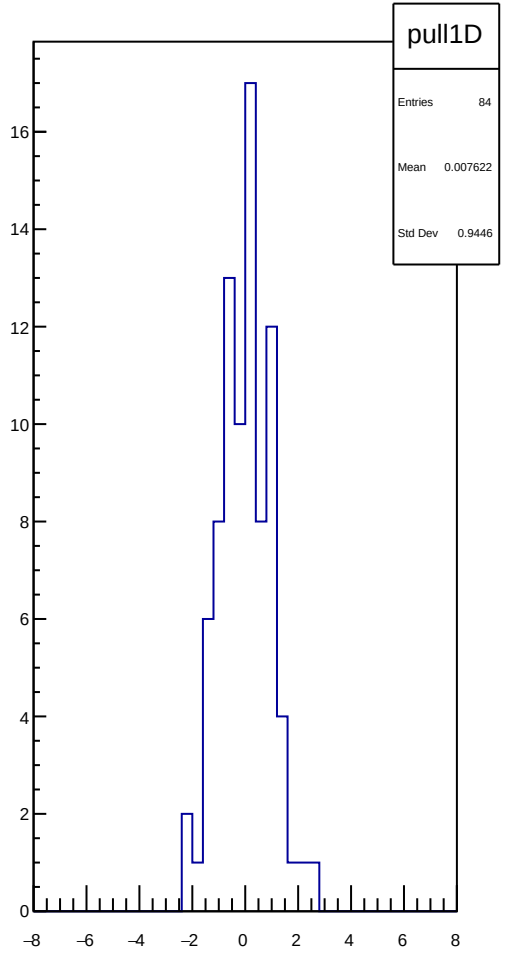

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.55 / 83
p0 0.01819 ± 0.03558
pull
Entries 84
Mean −6756
Std Dev 0
pull1D
Entries 84
Mean −0.0005699
Std Dev 1.003

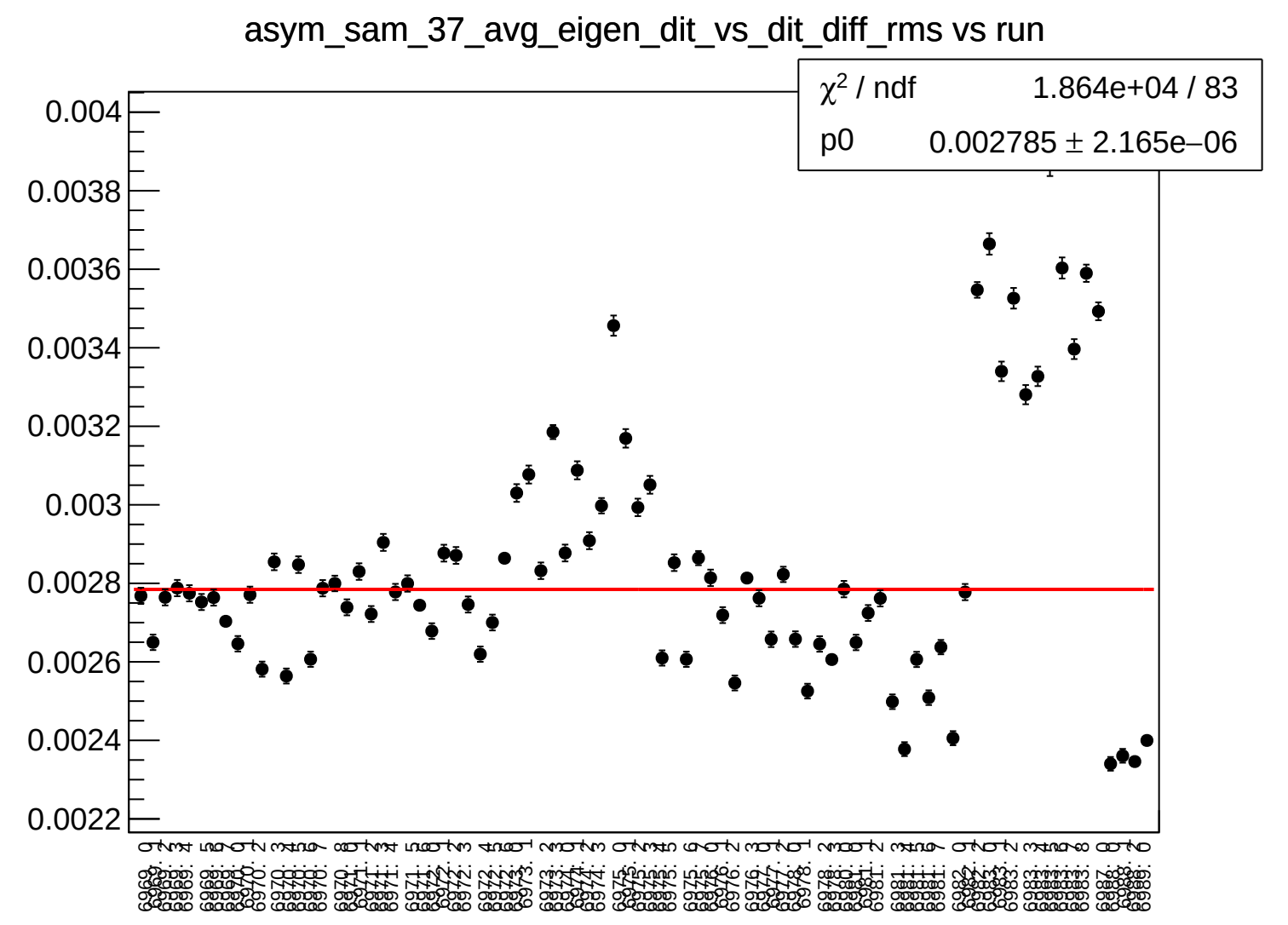

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.683e+05 / 83
p0 30.87 ± 0.02516
80
70
60
50
40
30
20

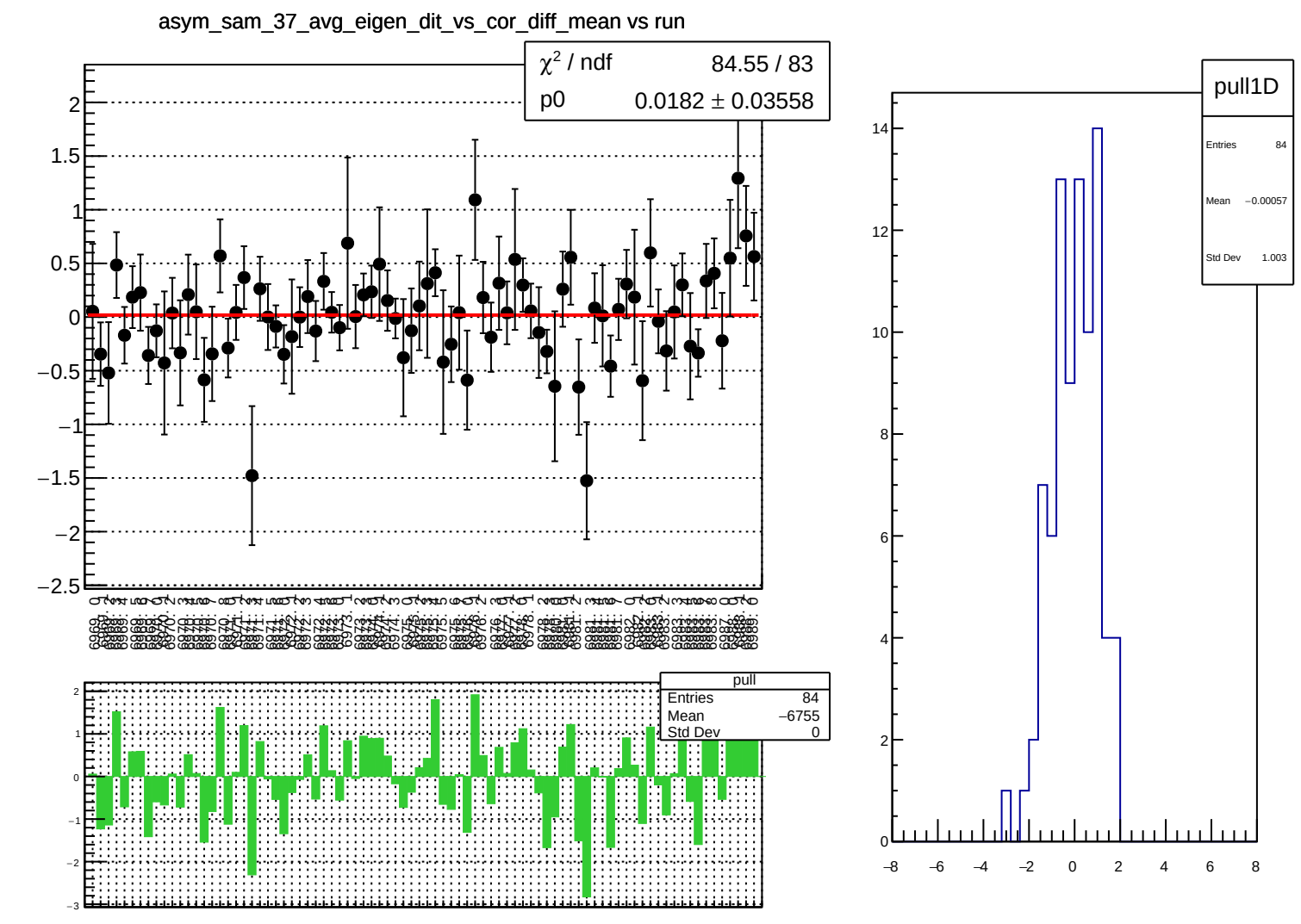

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.55 / 83
p0 0.01819 ± 0.03558
pull
Entries 84
Mean −6756
Std Dev 0
pull1D
Entries 84
Mean −0.0005699
Std Dev 1.003

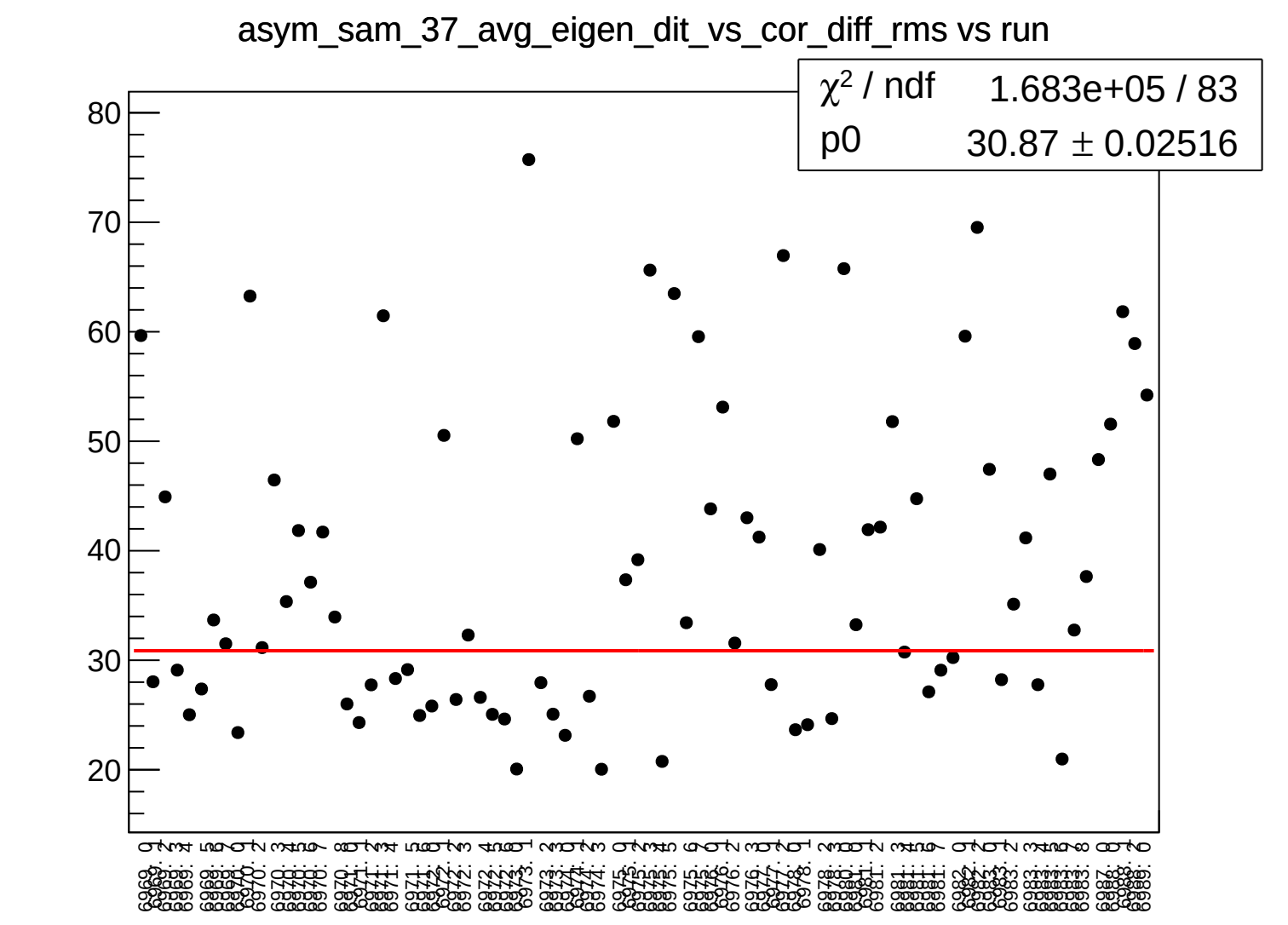

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 83
p0 30.87 ± 0.02516
80
70
60
50
40
30
20

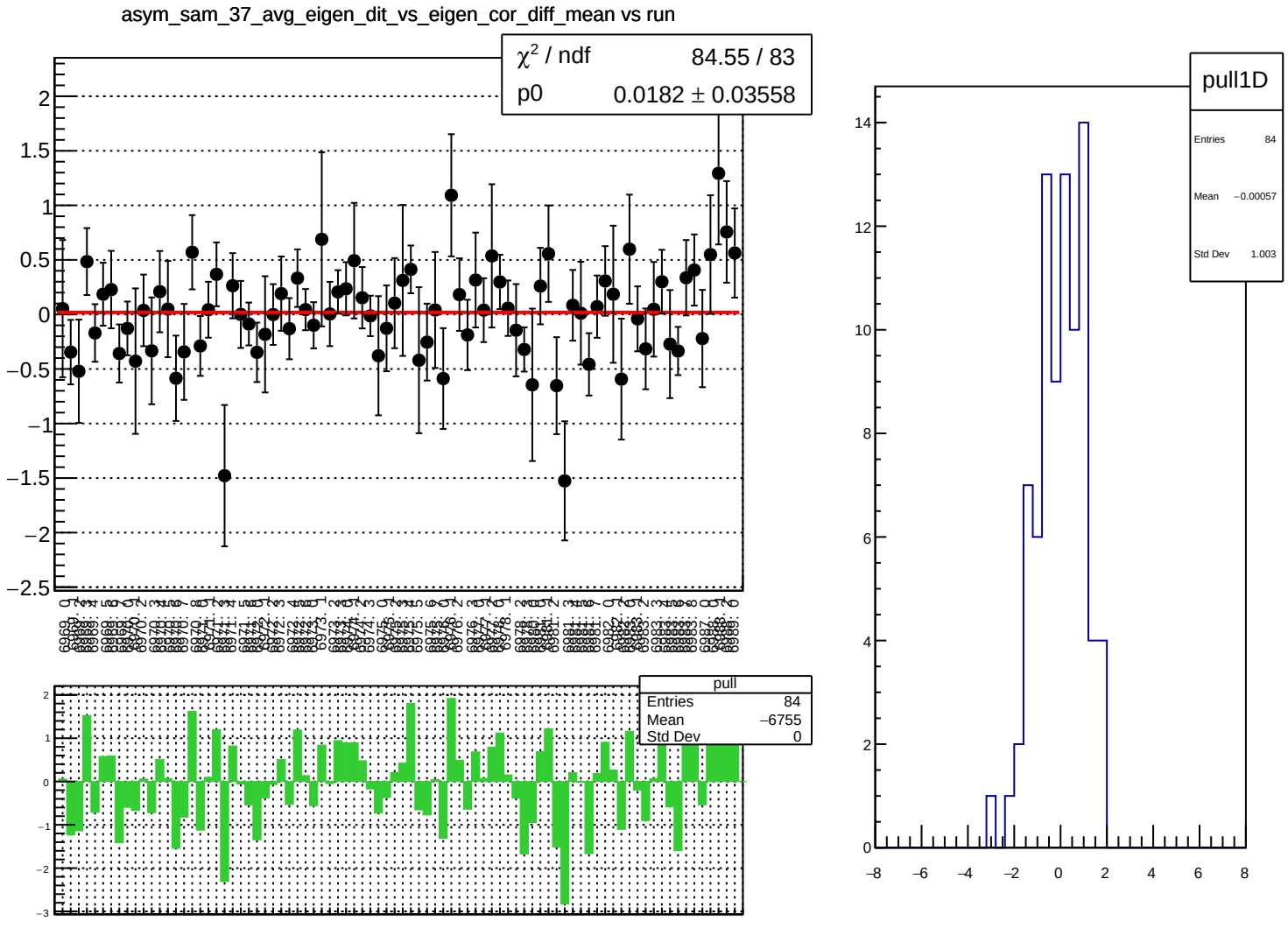

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.95 / 83
p0 2.417e−06 ± 3.061e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 169.4
Std Dev 0
2
1
0
−1
−2

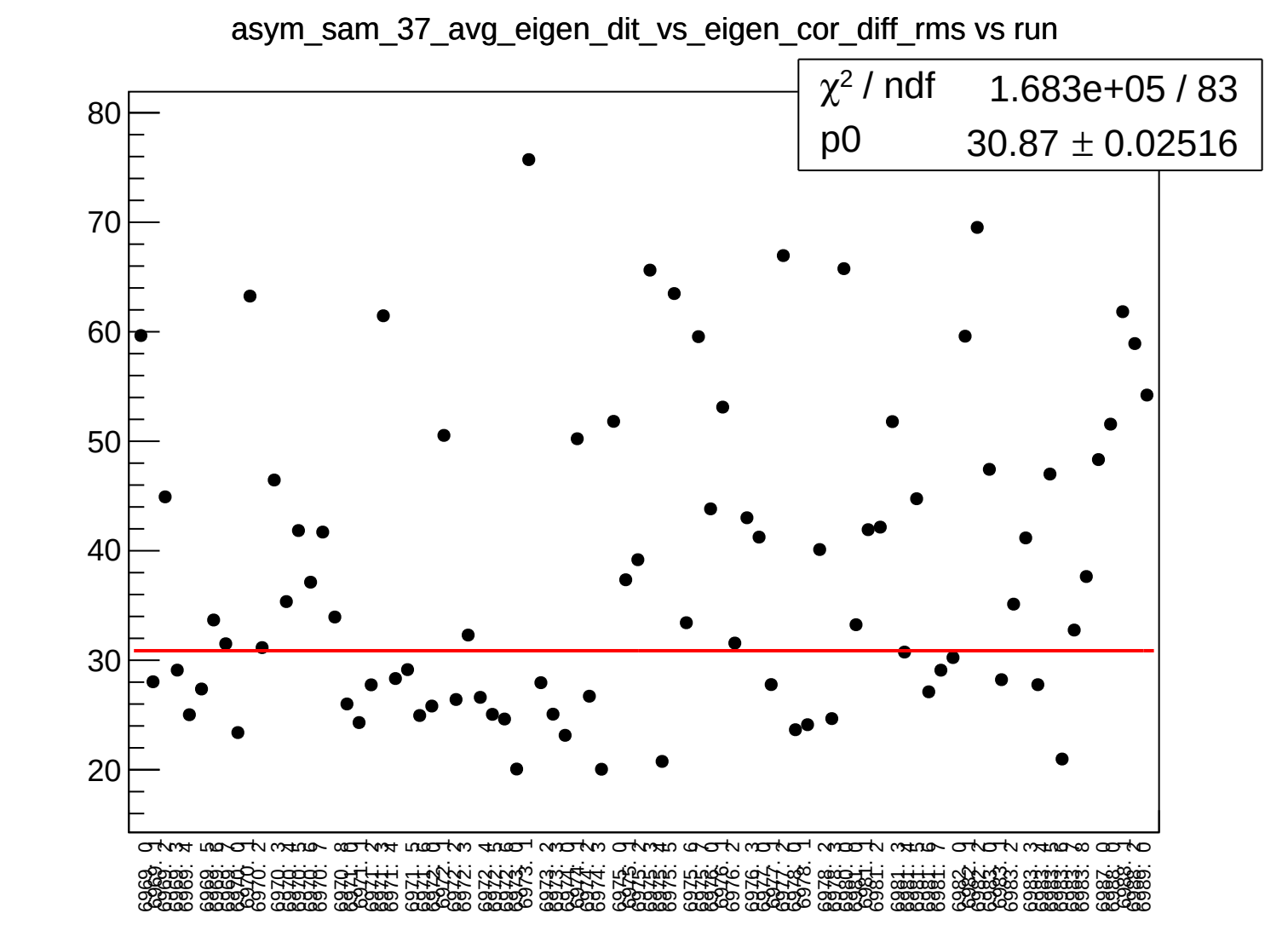

pull1D
Entries 84
Mean 0.007622
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

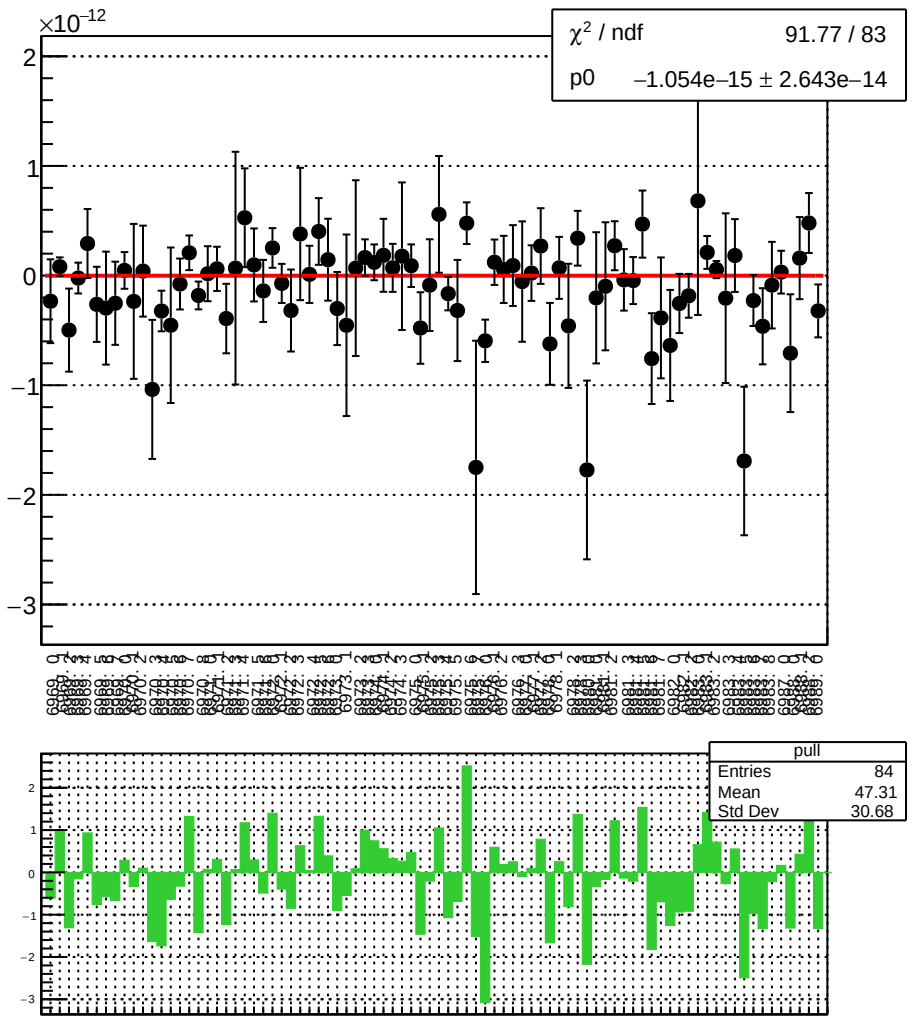

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.864e+04 / 83
p0 0.002785 ± 2.165e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

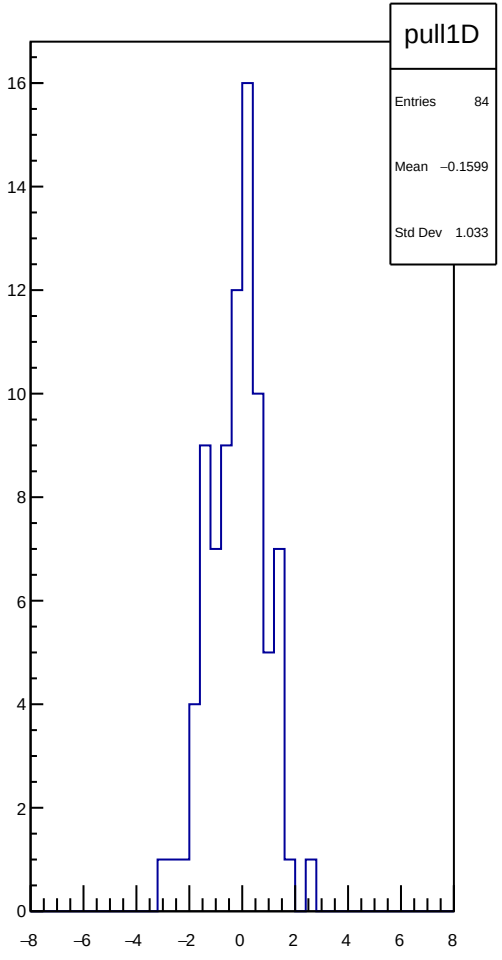

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.55 / 83
p0 0.0182 ± 0.03558
pull
Entries 84
Mean −6755
Std Dev 0
pull1D
Entries 84
Mean −0.00057
Std Dev 1.003

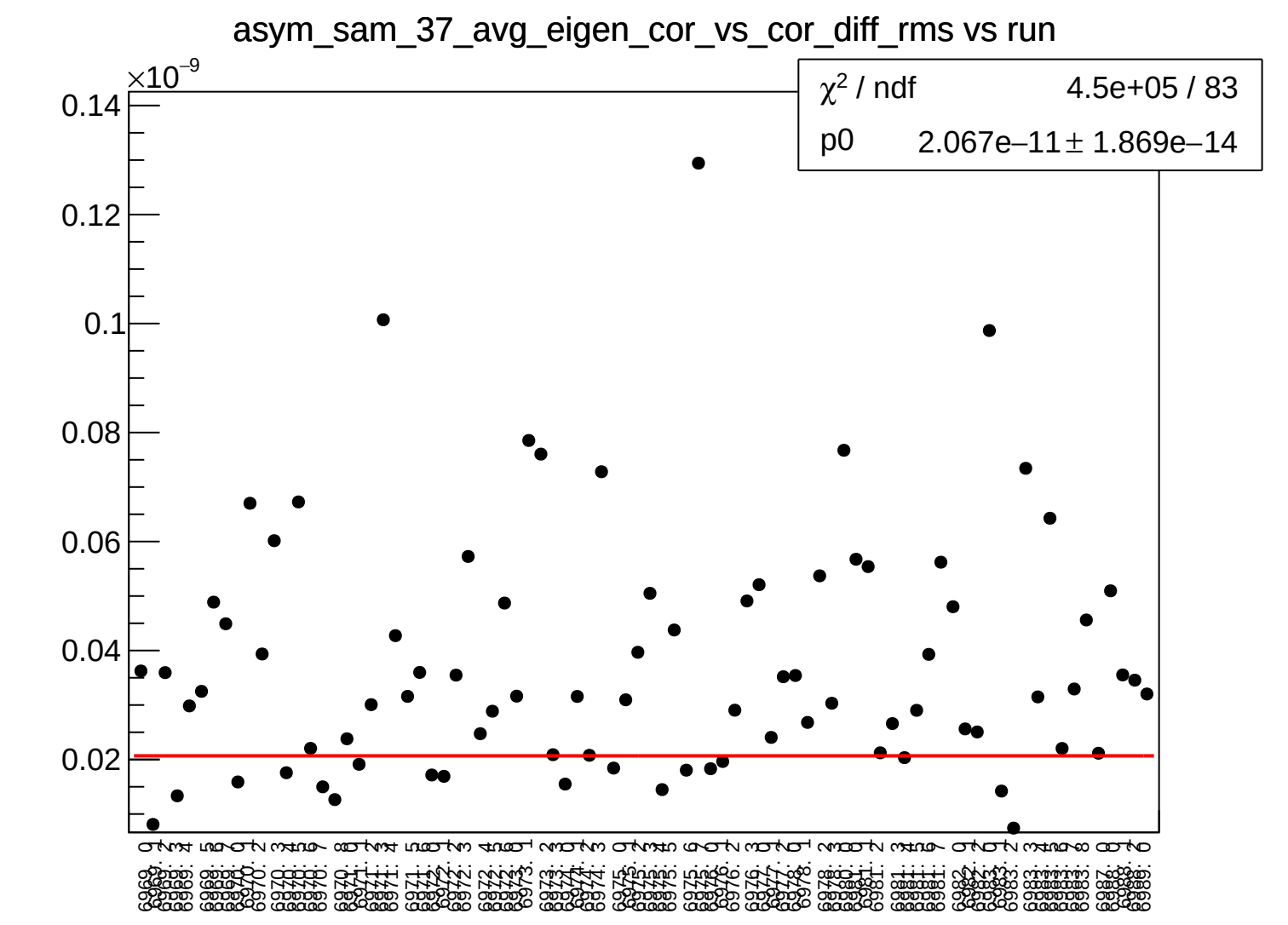

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 83
p0 30.87 ± 0.02516
80
70
60
50
40
30
20

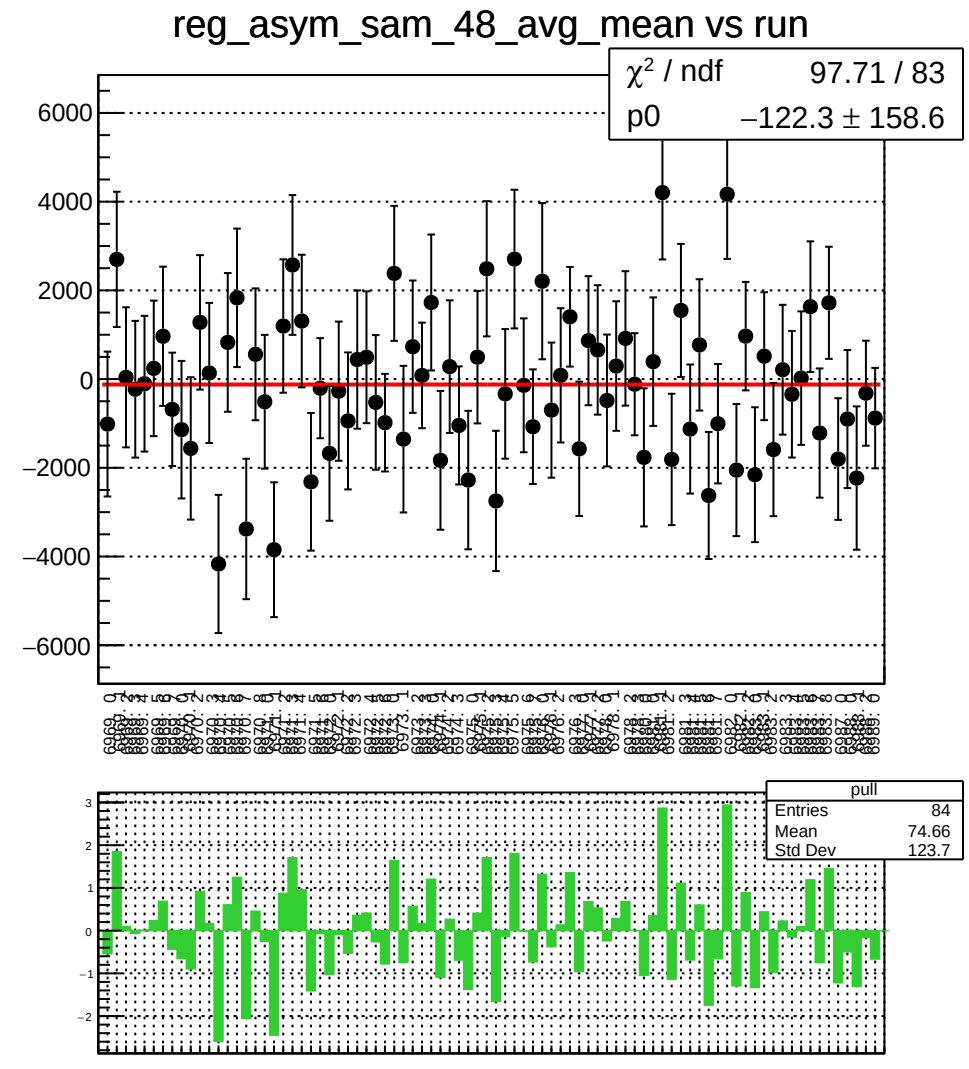

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.55 / 83
p0 0.0182 ± 0.03558
pull
Entries 84
Mean −6755
Std Dev 0
pull1D
Entries 84
Mean −0.00057
Std Dev 1.003

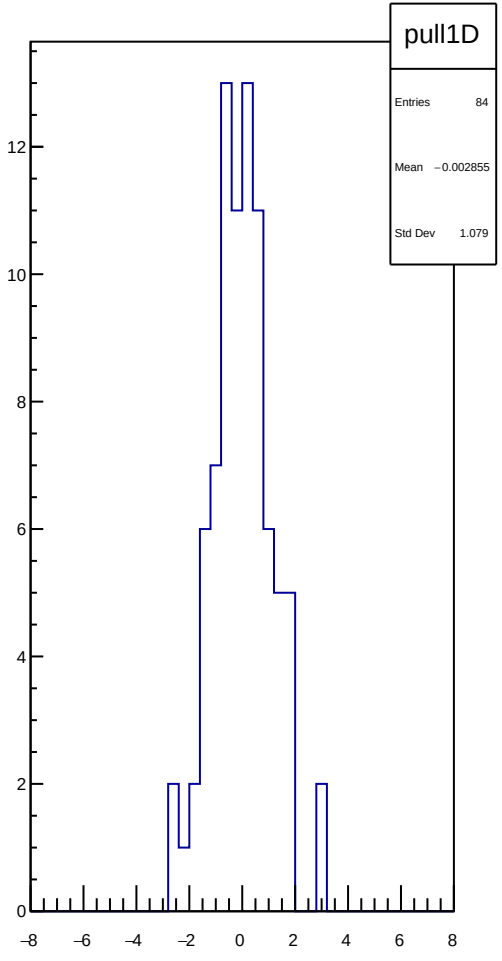

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 83
p0 30.87 ± 0.02516
80
70
60
50
40
30
20

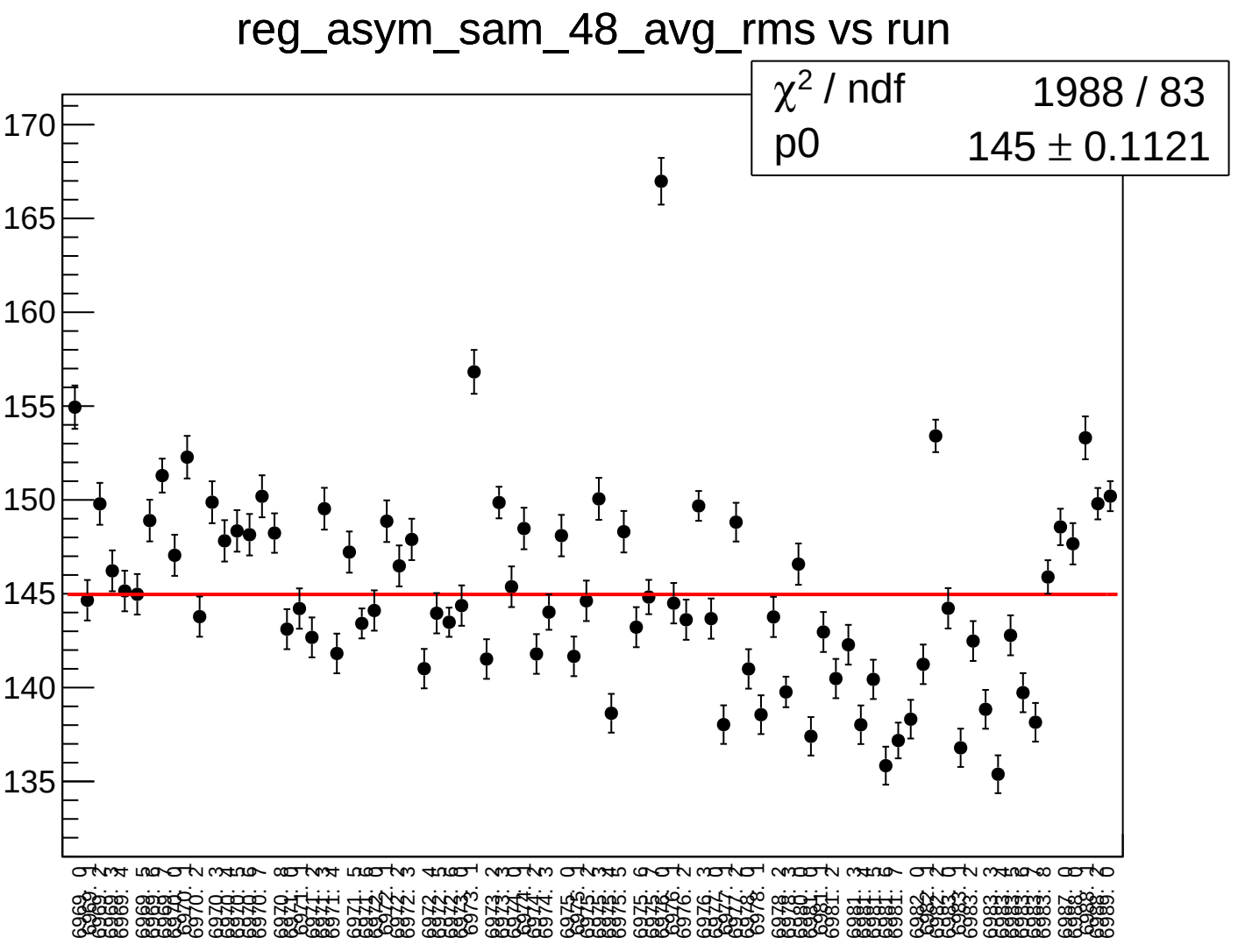

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 91.77 / 83
p0 −1.054e−15 ± 2.643e−14
pull
Entries 84
Mean 47.31
Std Dev 30.68

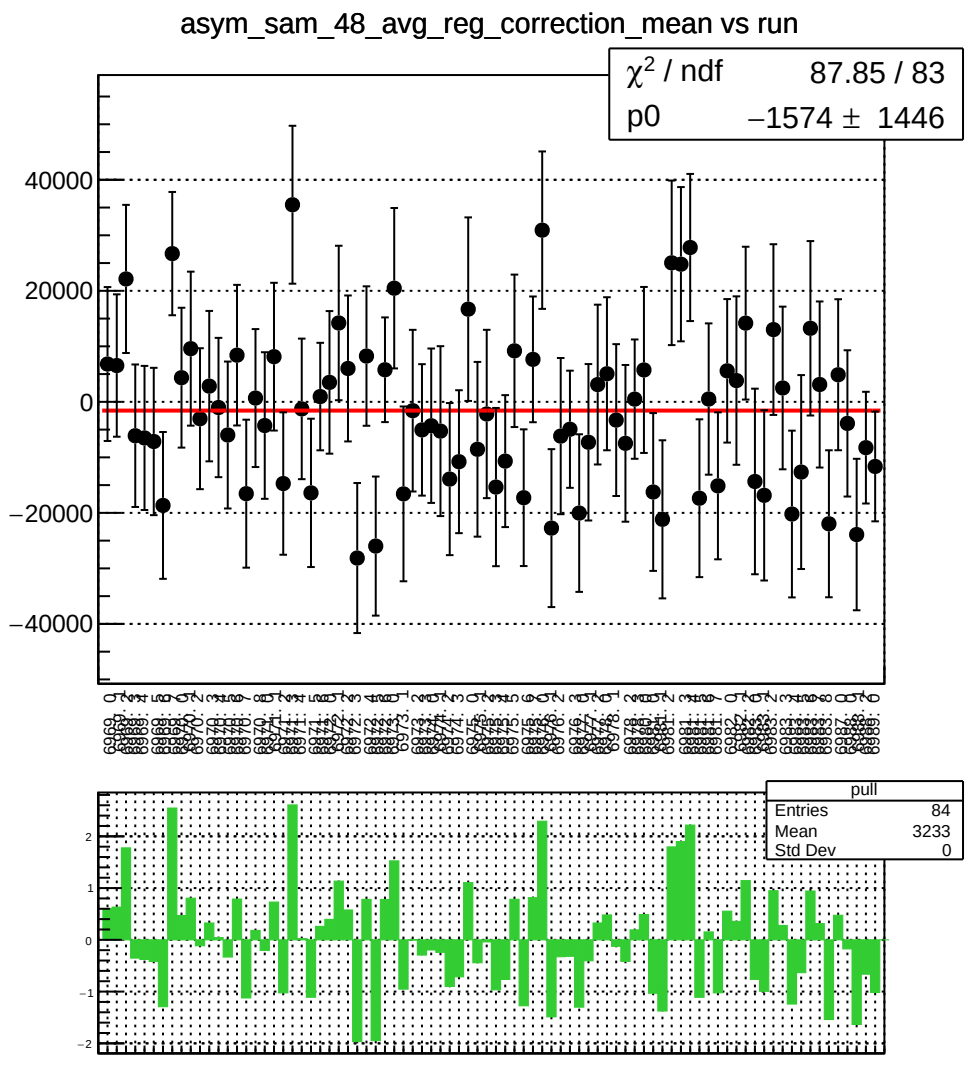

pull1D
Entries 84
Mean −0.1599
Std Dev 1.033

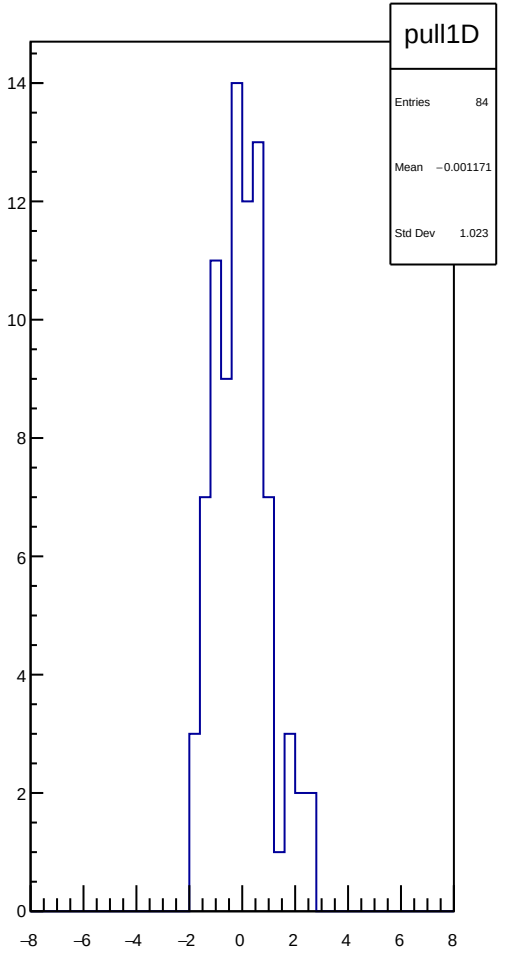

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.5e+05 / 83
p0 2.067e−11 ± 1.869e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

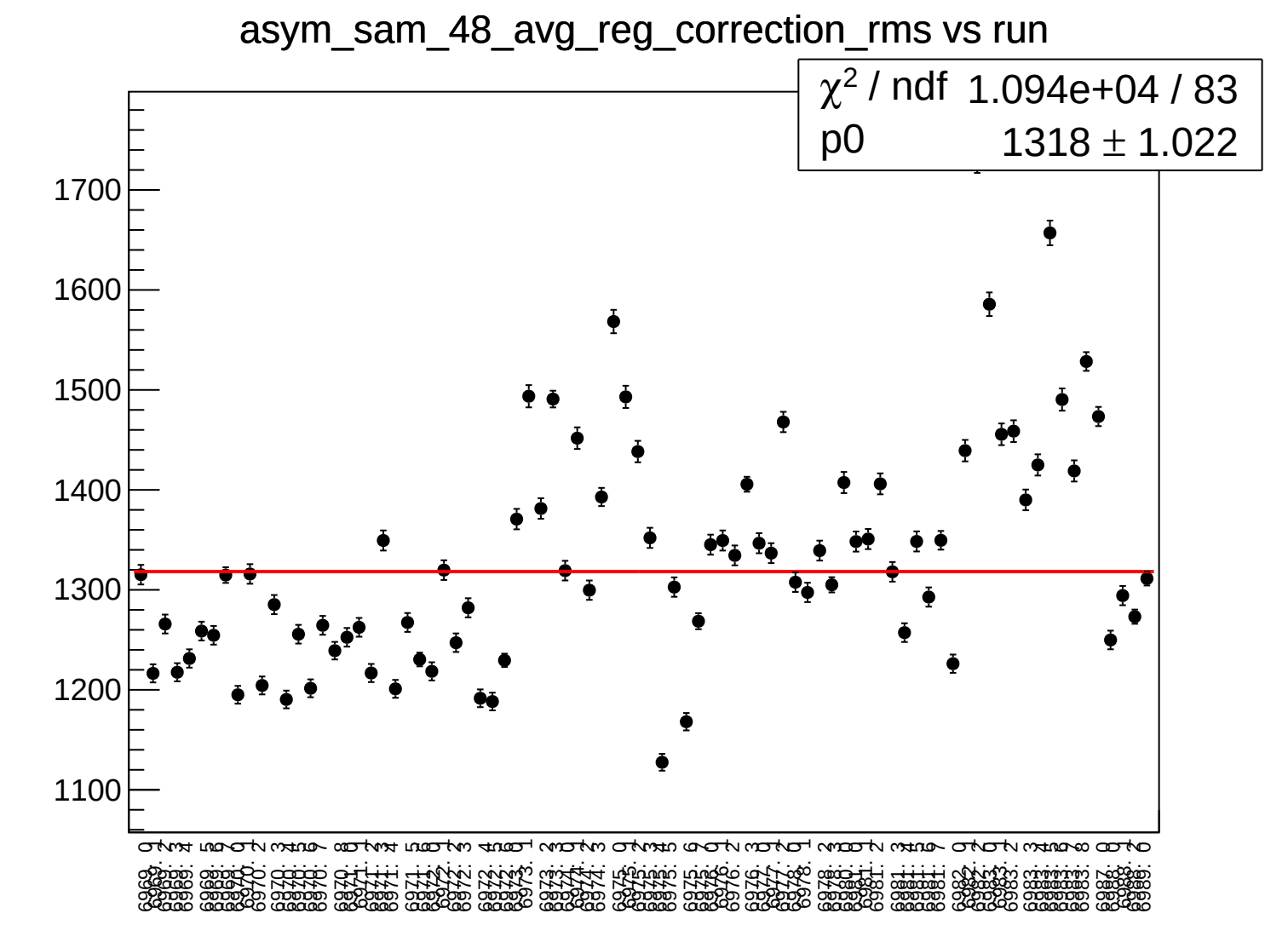

reg_asym_sam_48_avg_mean vs run
χ² / ndf 97.71 / 83
p0 −122.3 ± 158.6
pull
Entries 84
Mean 74.66
Std Dev 123.7

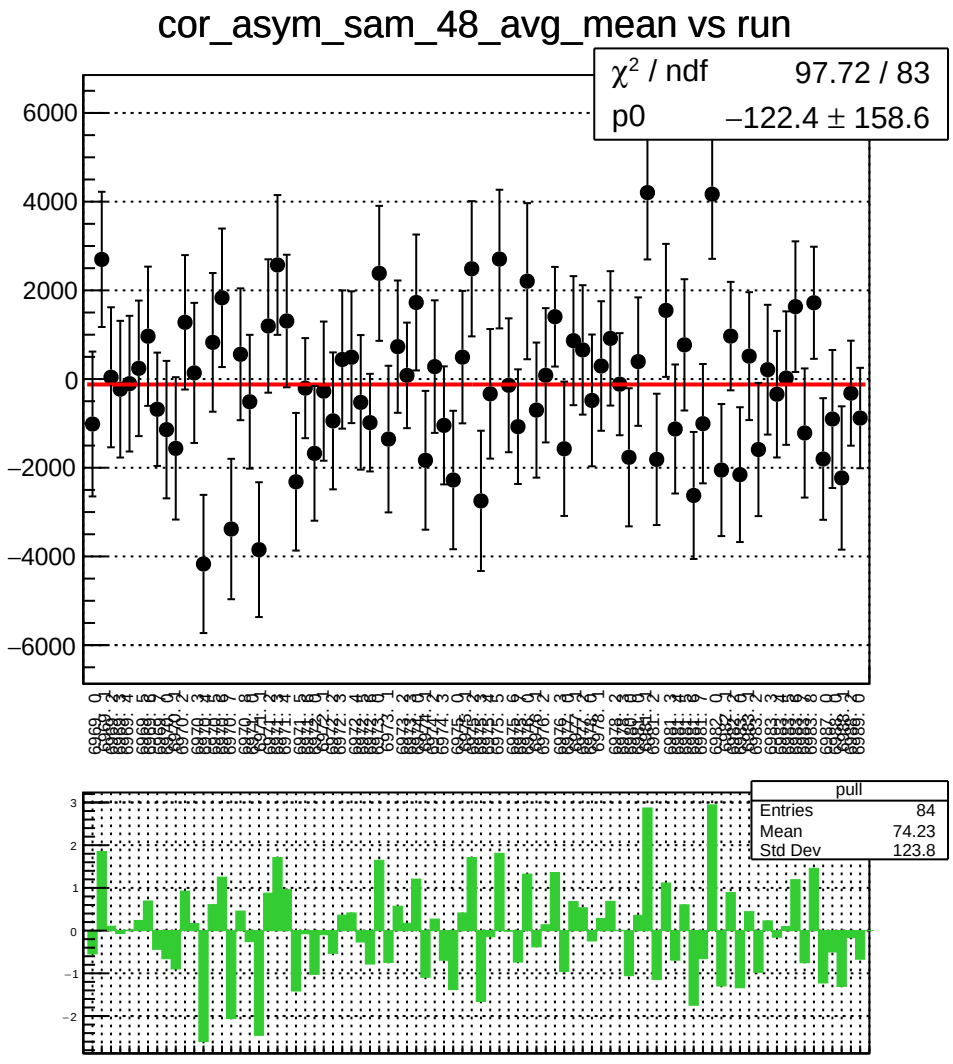

pull1D
Entries 84
Mean −0.002855
Std Dev 1.079

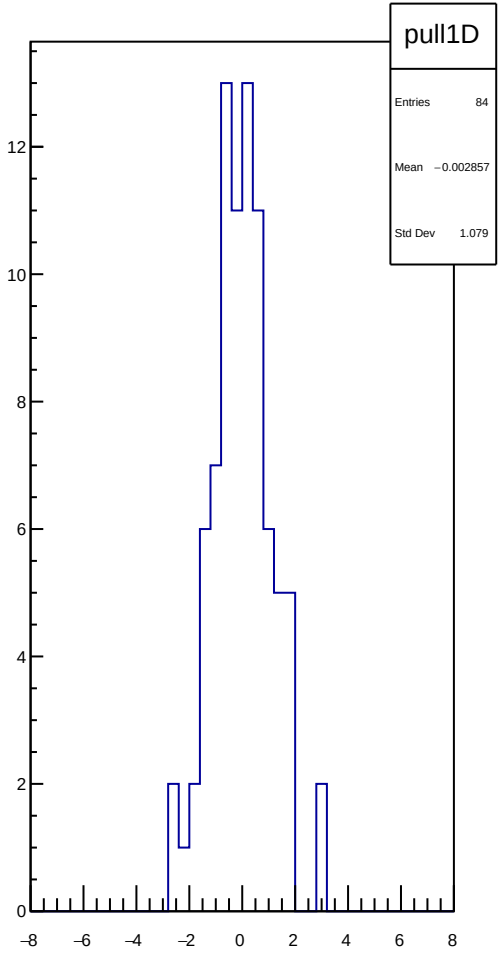

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1988 / 83
p0 145 ± 0.1121
170
165
160
155
150
145
140
135

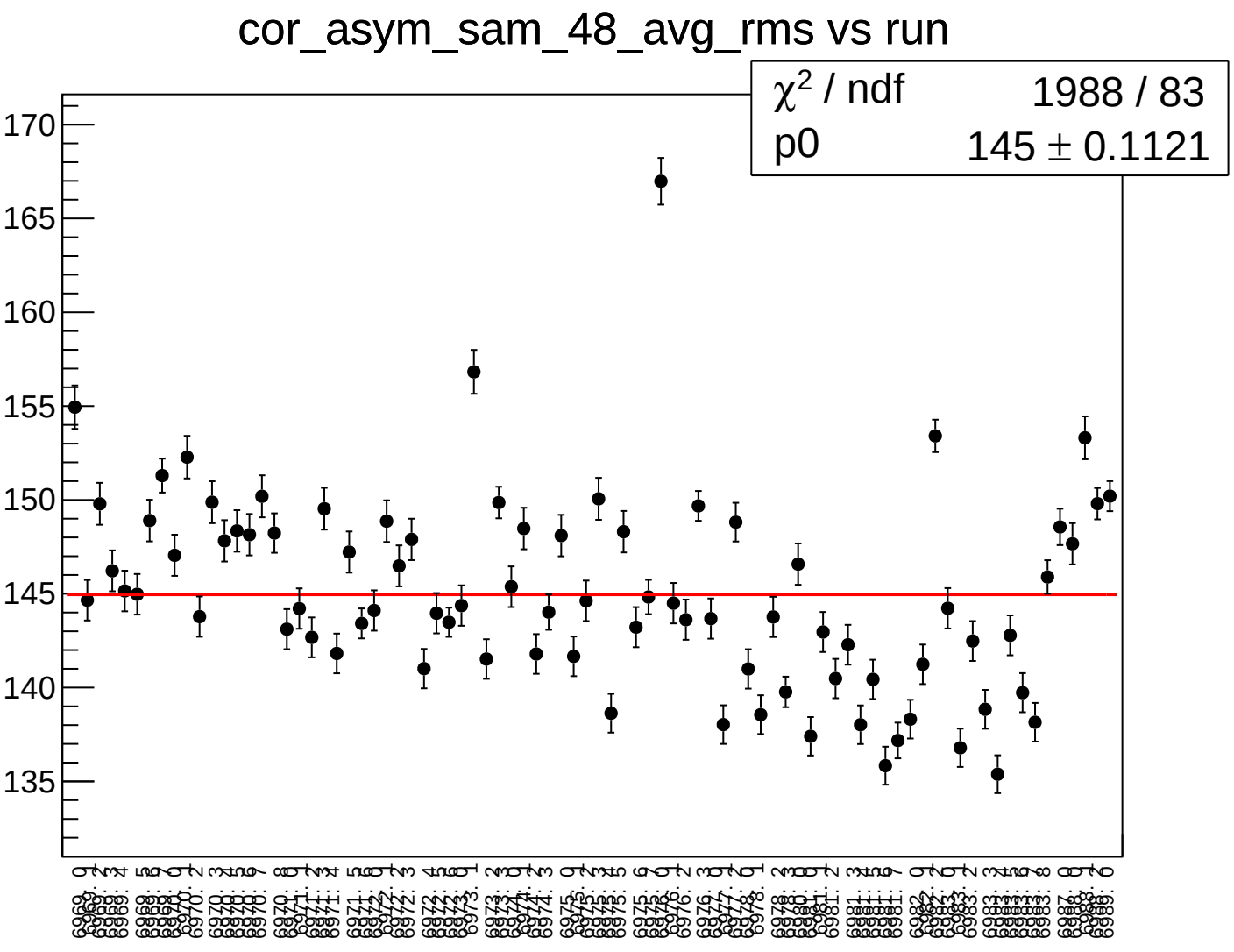

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 87.85 / 83
p0 −1574 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 3233
Std Dev 0
2
1
0
−1
−2

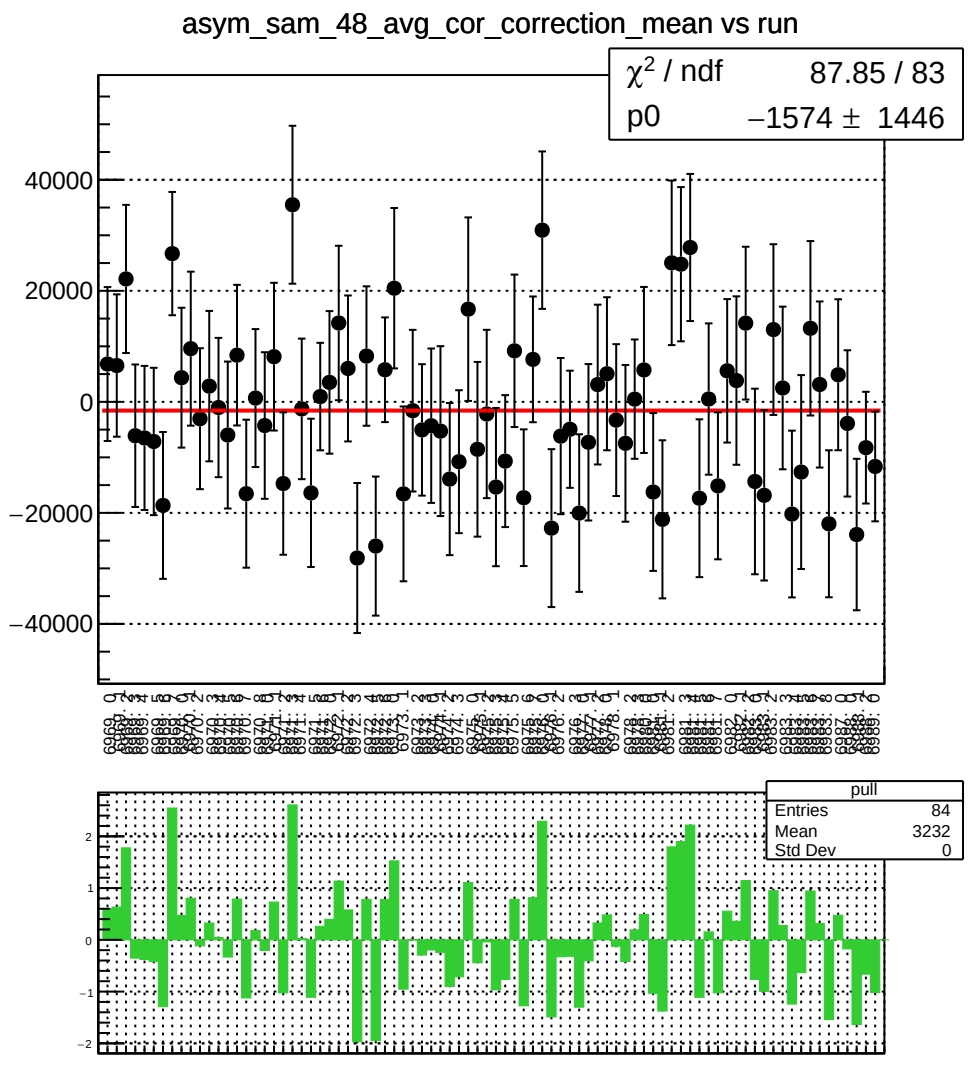

pull1D
Entries 84
Mean −0.001171
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

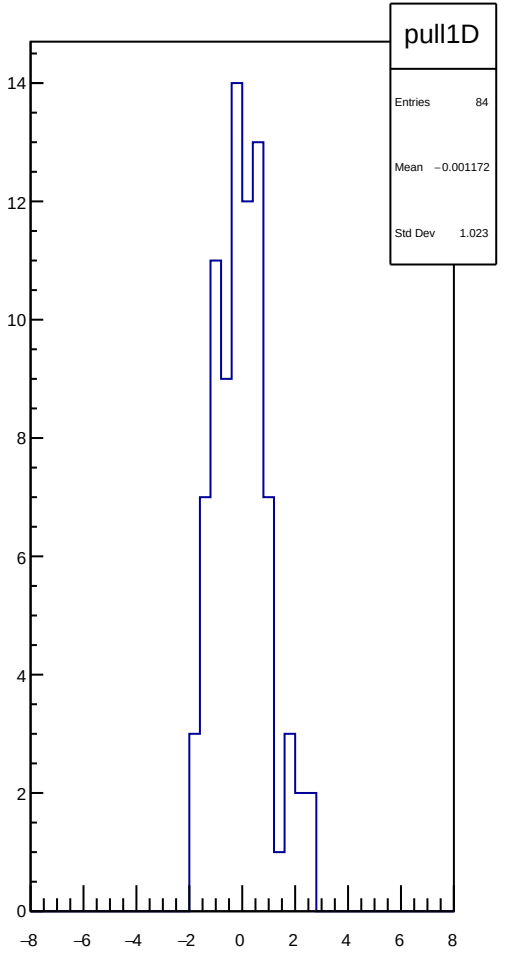

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1.094e+04 / 83
p0 1318 ± 1.022
1700
1600
1500
1400
1300
1200
1100

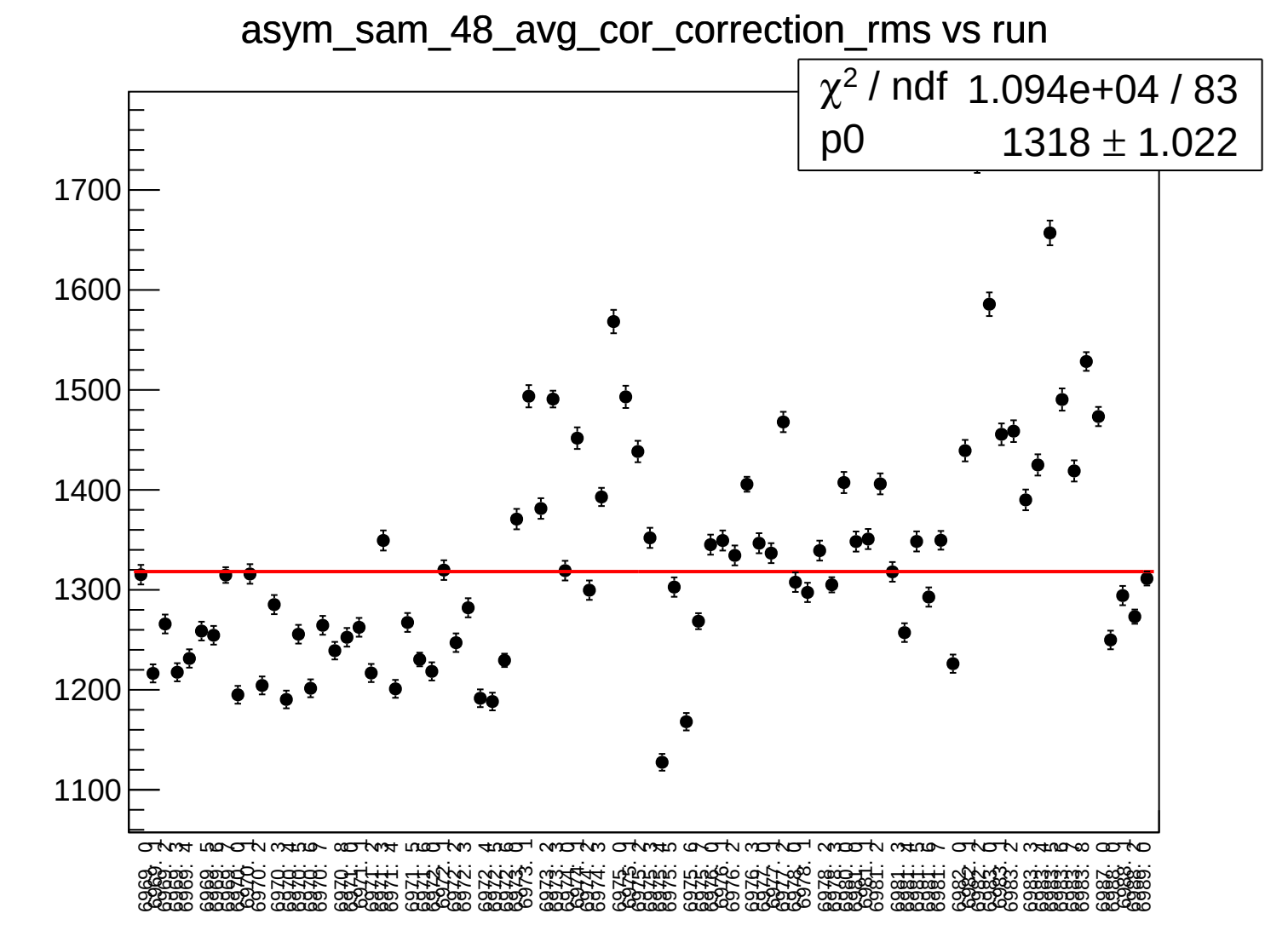

cor_asym_sam_48_avg_mean vs run
χ² / ndf 97.72 / 83
p0 −122.4 ± 158.6
pull
Entries 84
Mean 74.23
Std Dev 123.8

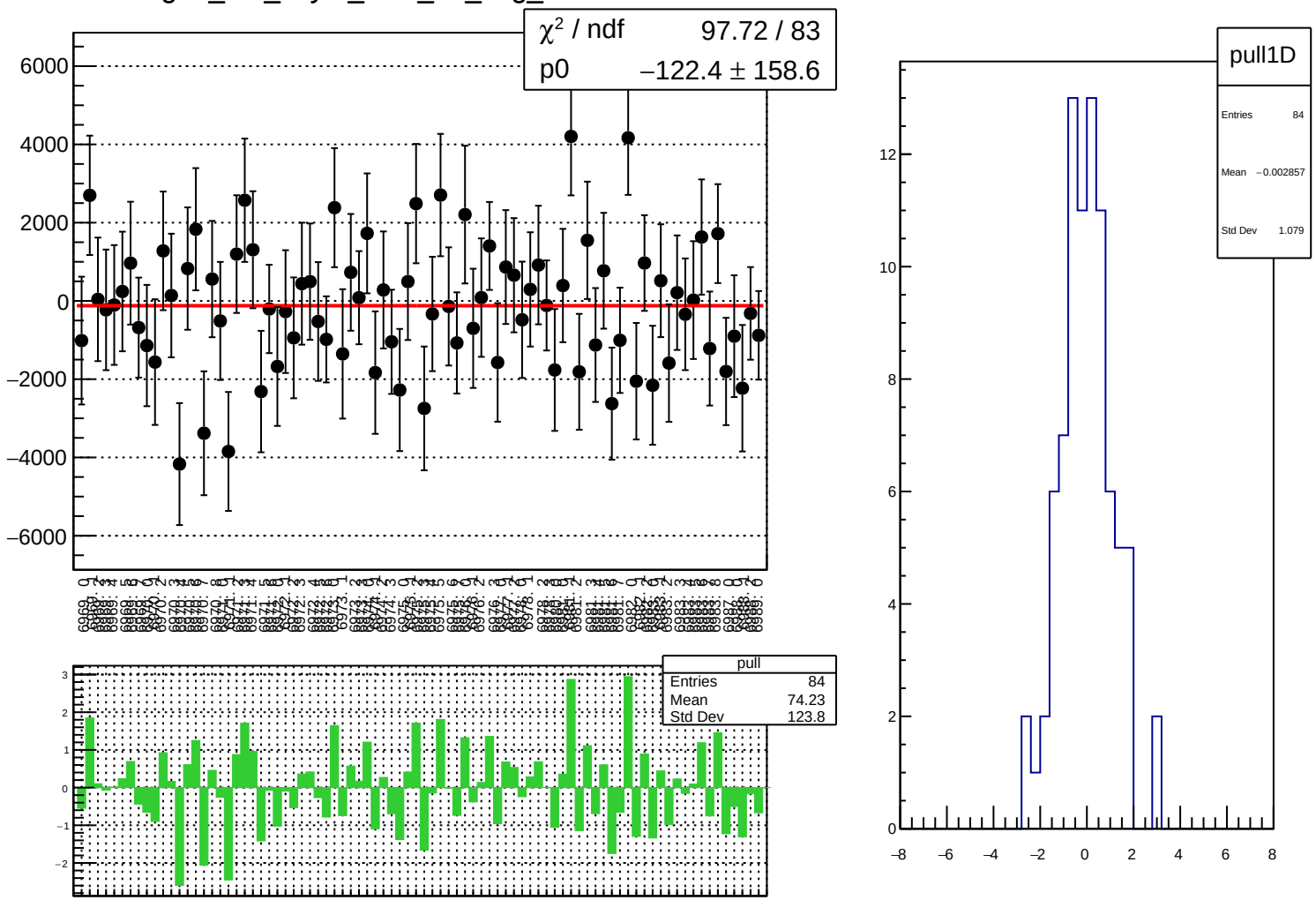

pull1D
Entries 84
Mean −0.002857
Std Dev 1.079

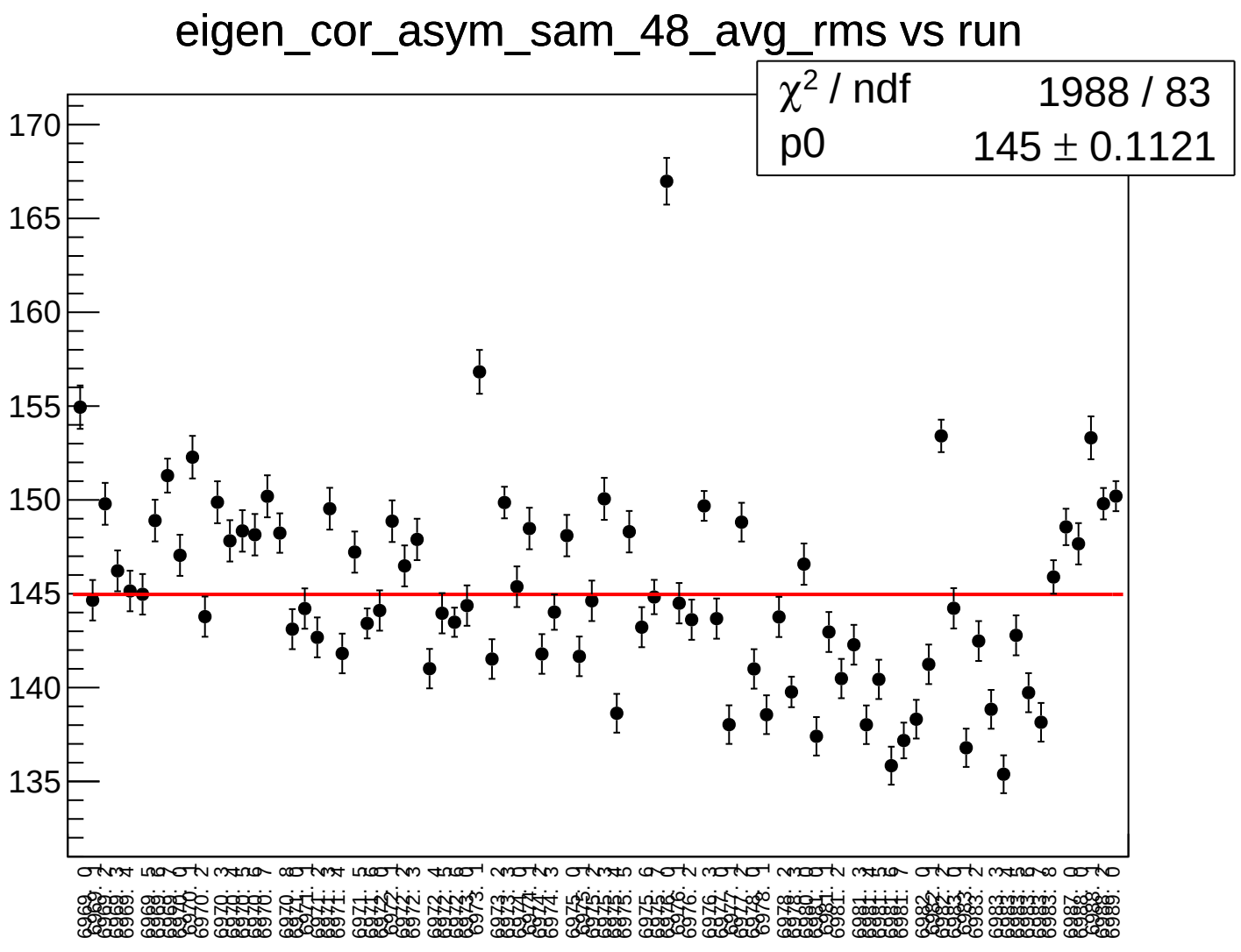

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1988 / 83
p0 145 ± 0.1121
170
165
160
155
150
145
140
135

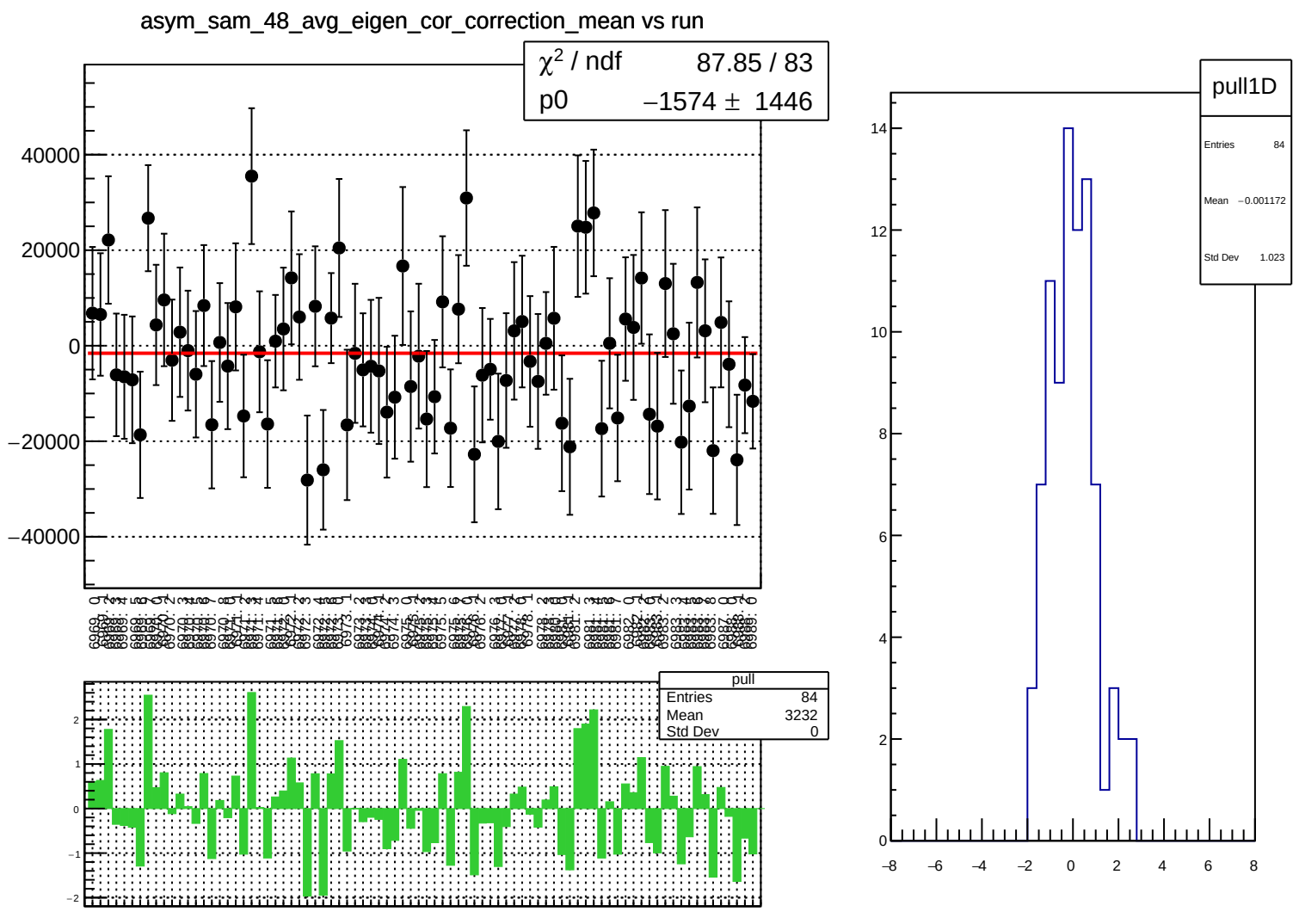

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 87.85 / 83
p0 −1574 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 3232
Std Dev 0
2
1
0
−1
−2

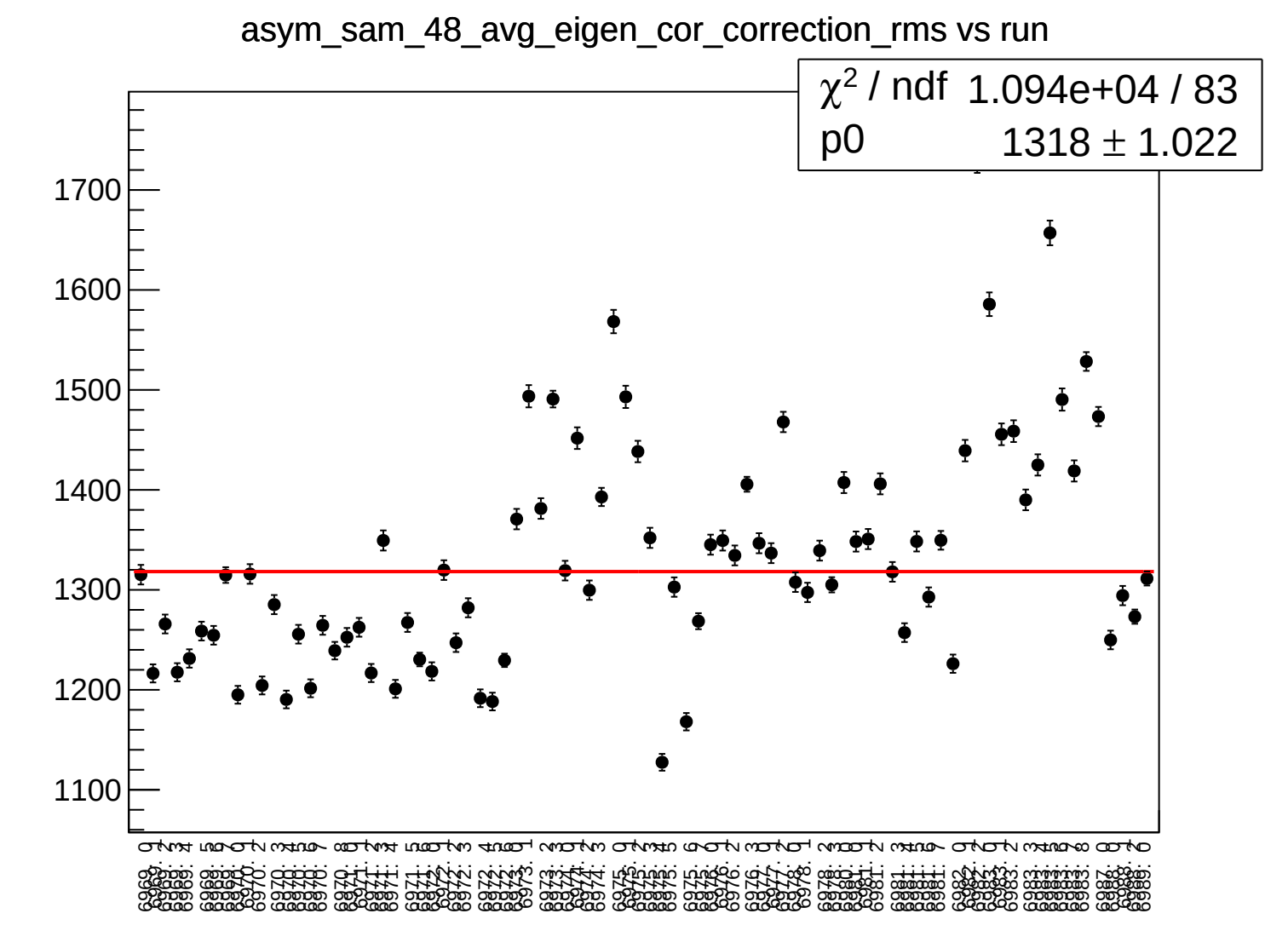

pull1D
Entries 84
Mean −0.001172
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

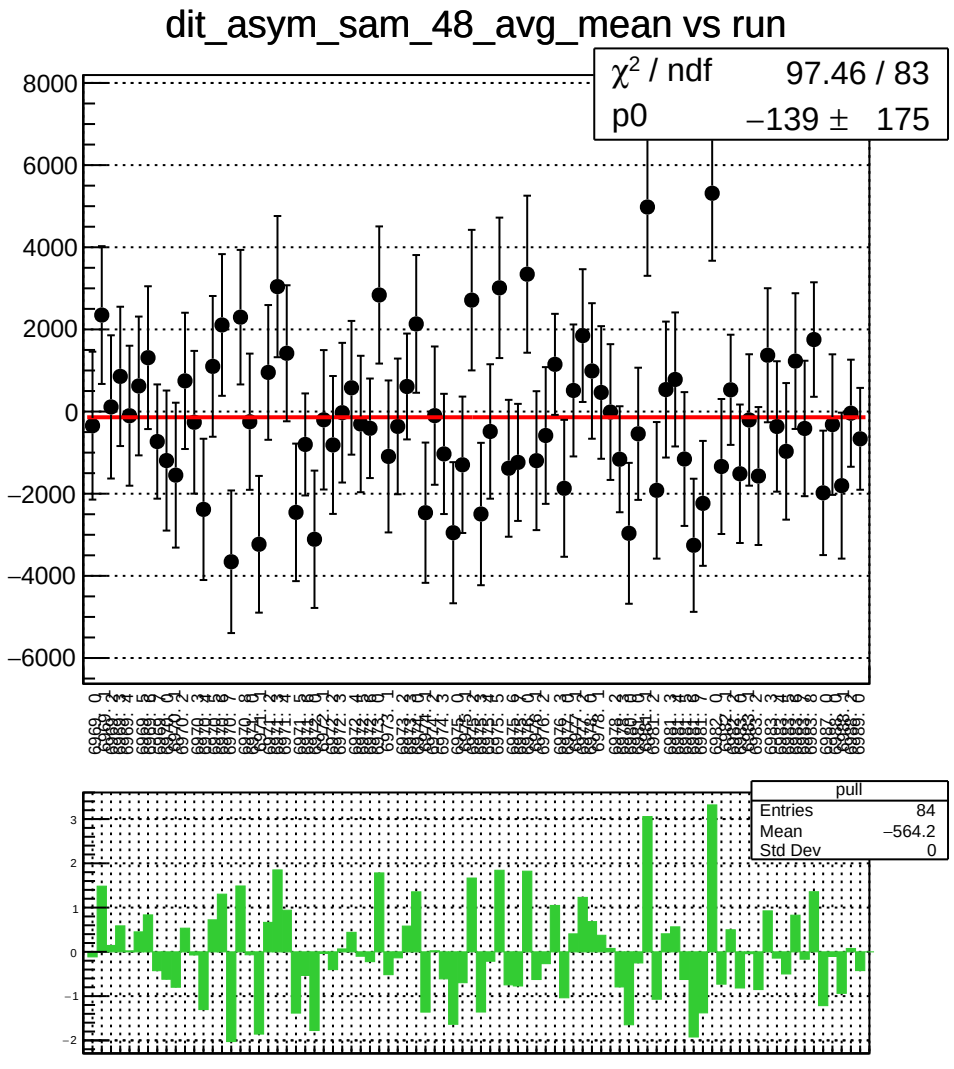

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1.094e+04 / 83
p0 1318 ± 1.022
1700
1600
1500
1400
1300
1200
1100

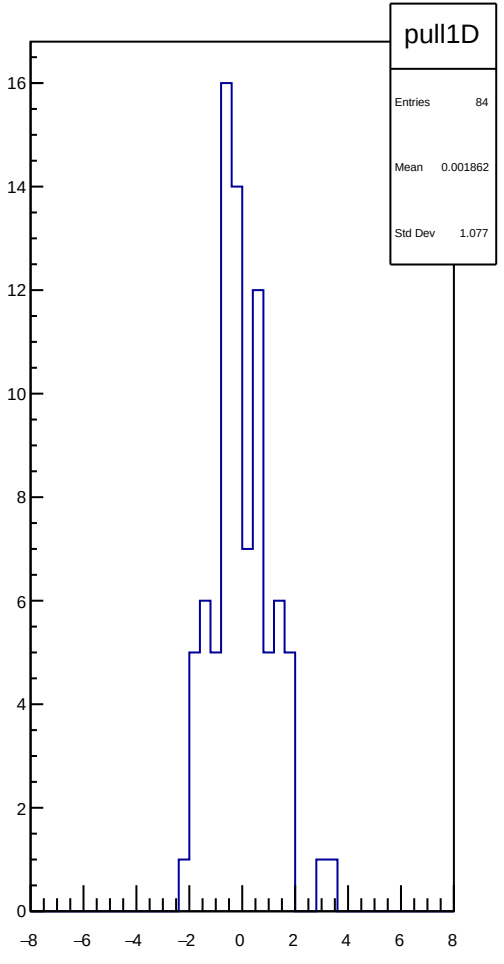

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 97.72 / 83
p0 −122.4 ± 158.6
pull
Entries 84
Mean 74.23
Std Dev 123.8
pull1D
Entries 84
Mean −0.002857
Std Dev 1.079

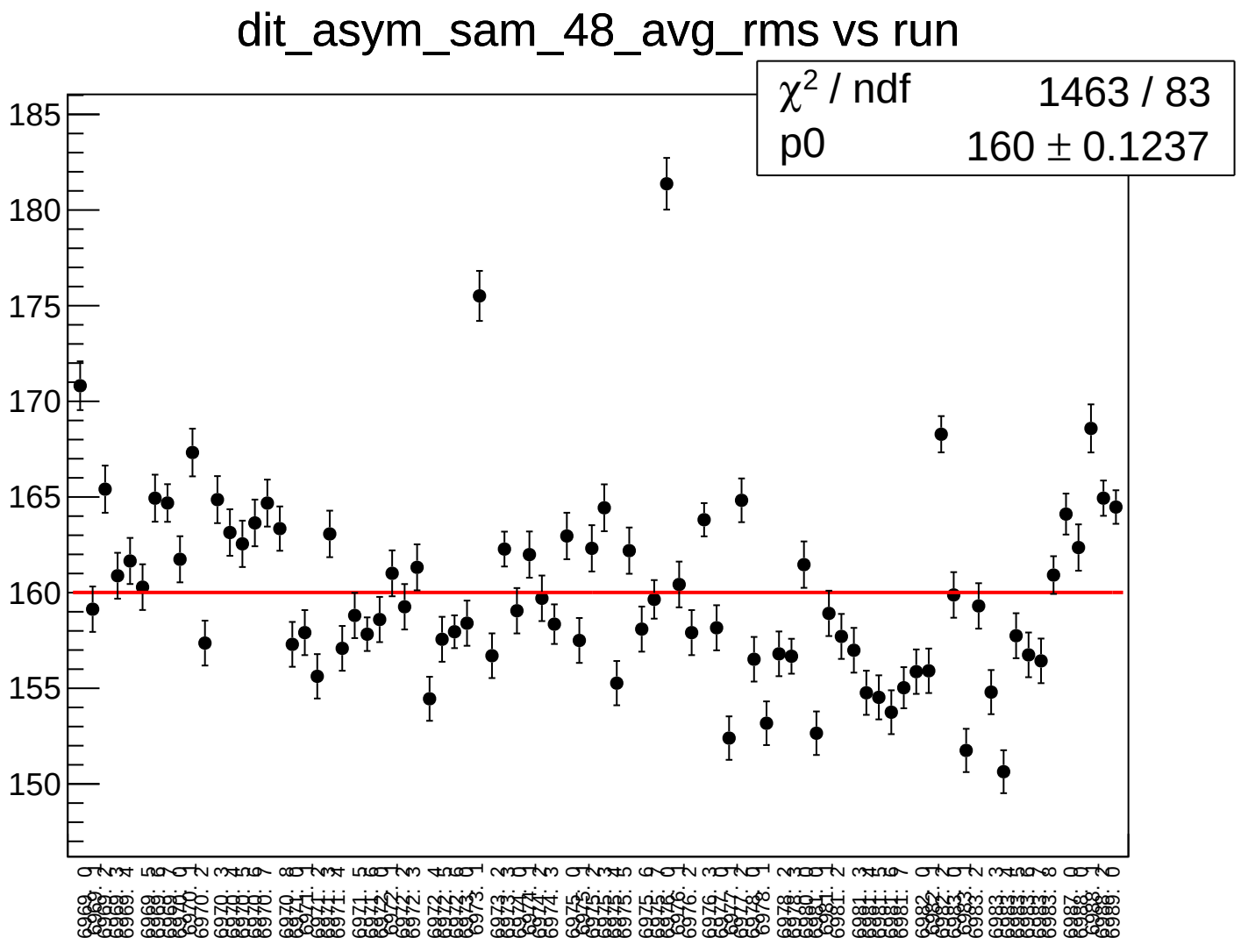

eigen_cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 1988 / 83
p0 145 ± 0.1121
170
165
160
155
150
145
140
135

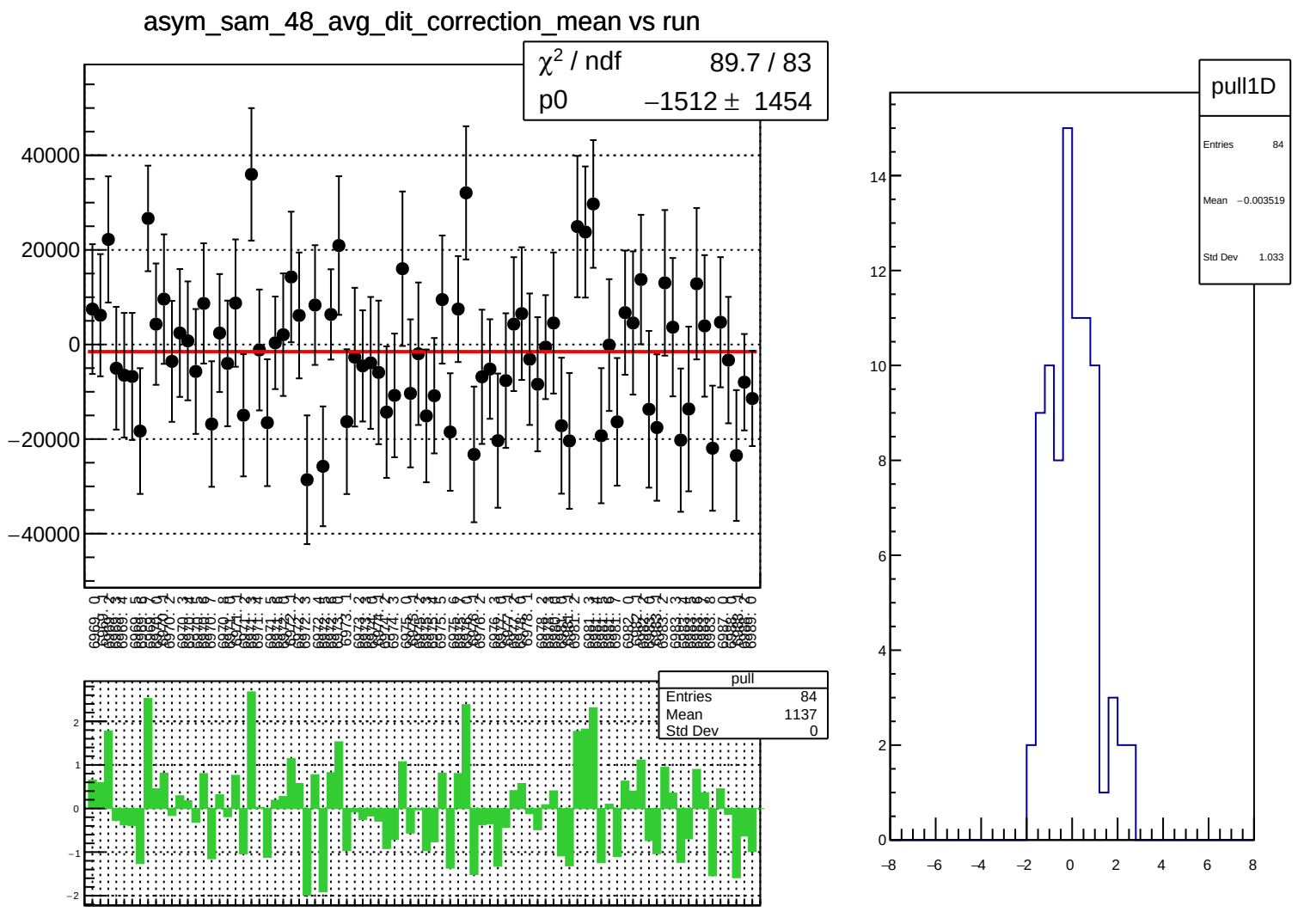

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.85 / 83
p0 −1574 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 3232
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.001172
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

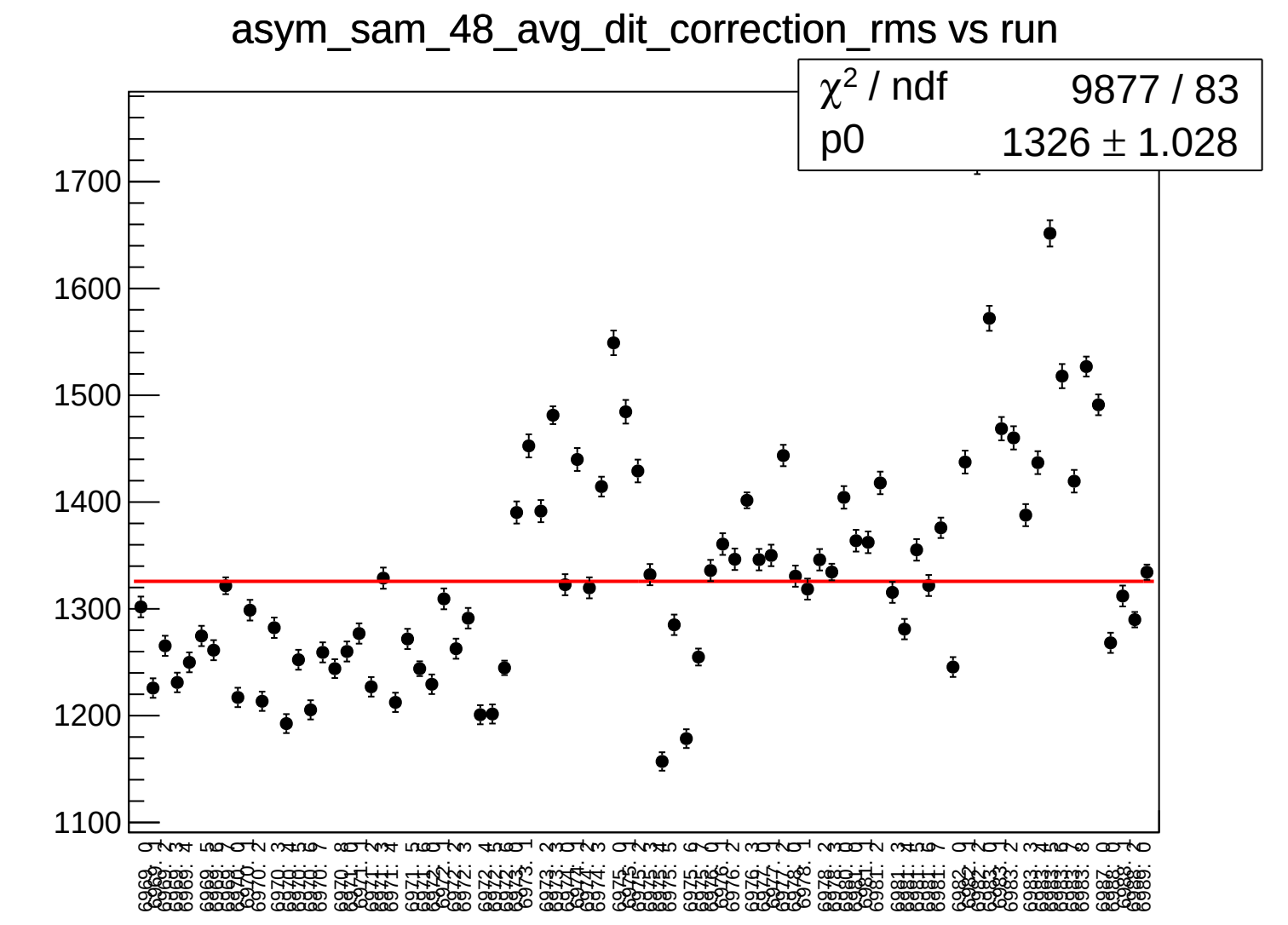

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.094e+04 / 83
p0 1318 ± 1.022
1700
1600
1500
1400
1300
1200
1100

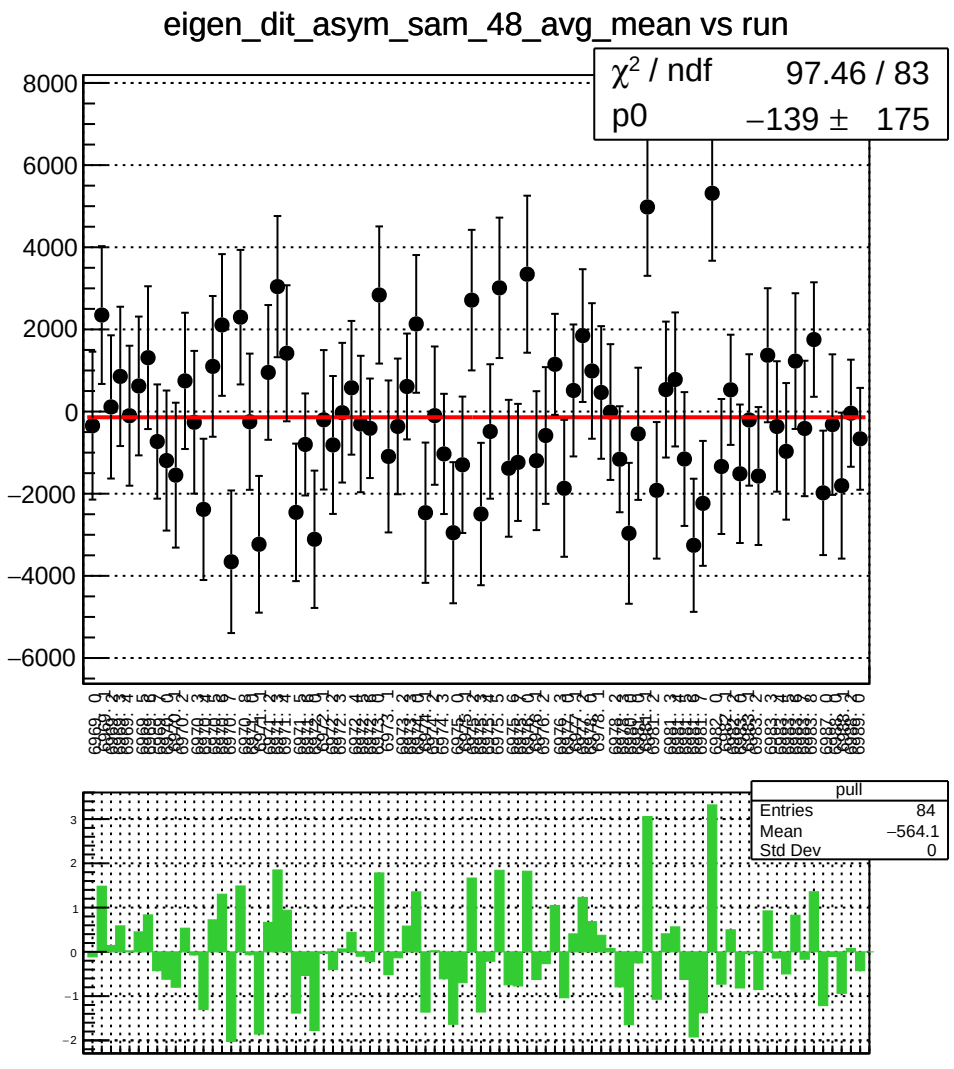

dit_asym_sam_48_avg_mean vs run
χ² / ndf 97.46 / 83
p0 −139 ± 175
pull
Entries 84
Mean −564.2
Std Dev 0

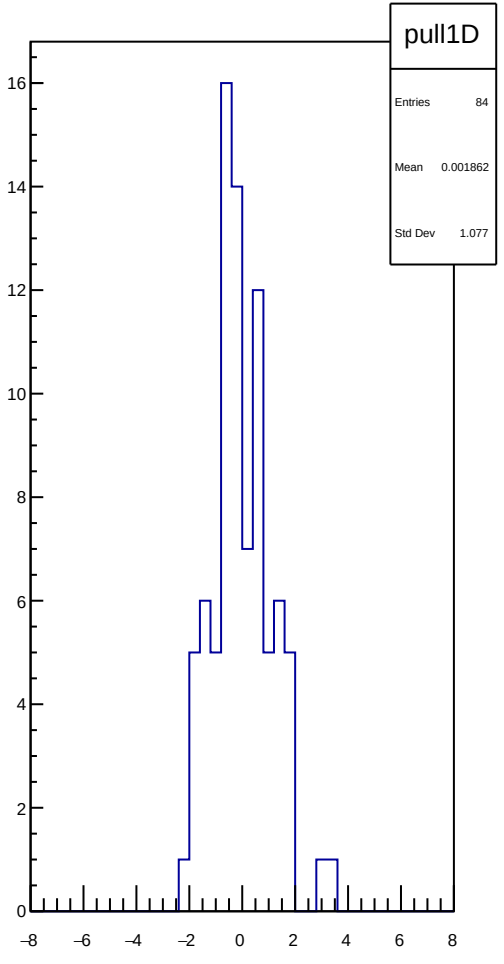

pull1D
Entries 84
Mean 0.001862
Std Dev 1.077

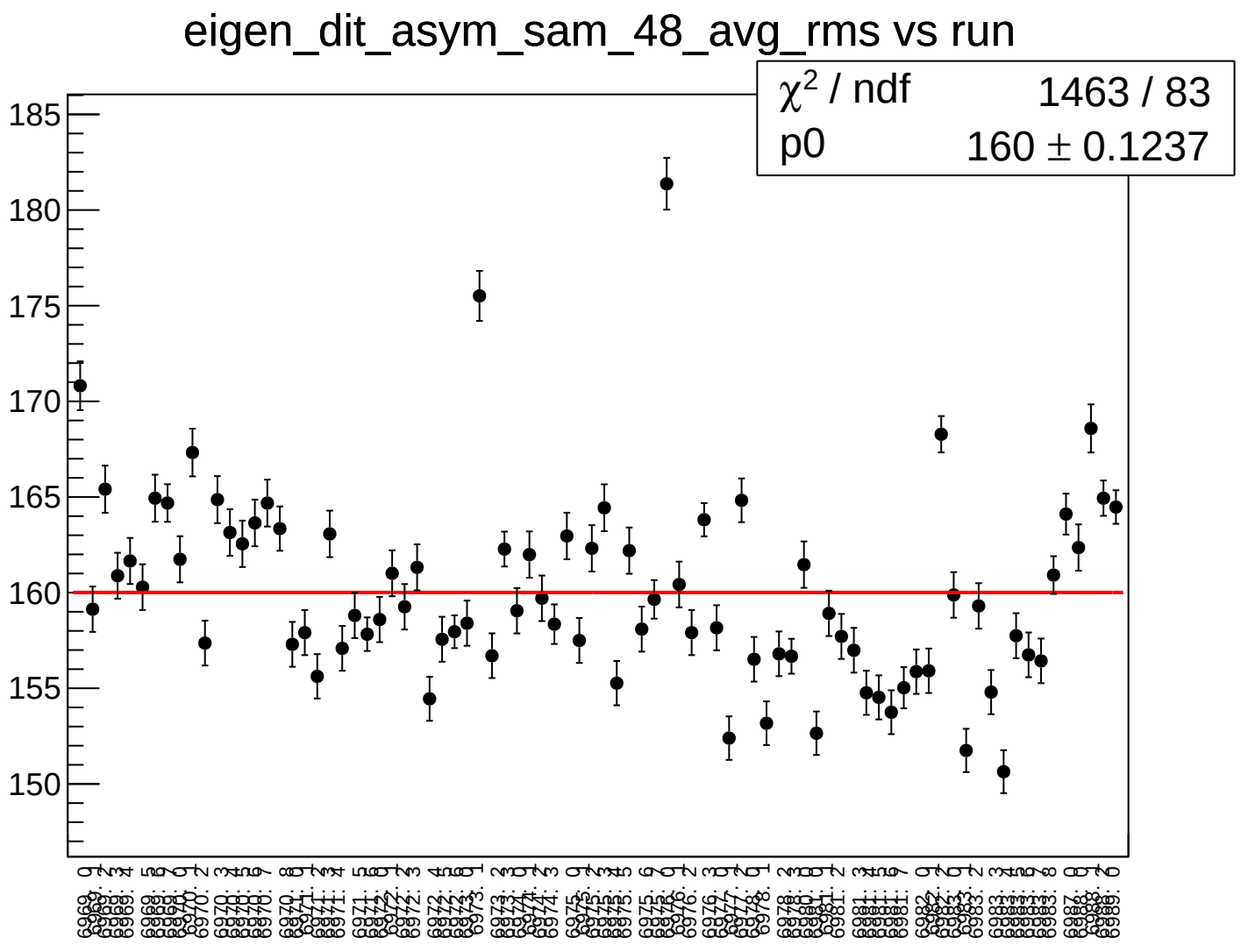

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1463 / 83
p0 160 ± 0.1237
185
180
175
170
165
160
155
150

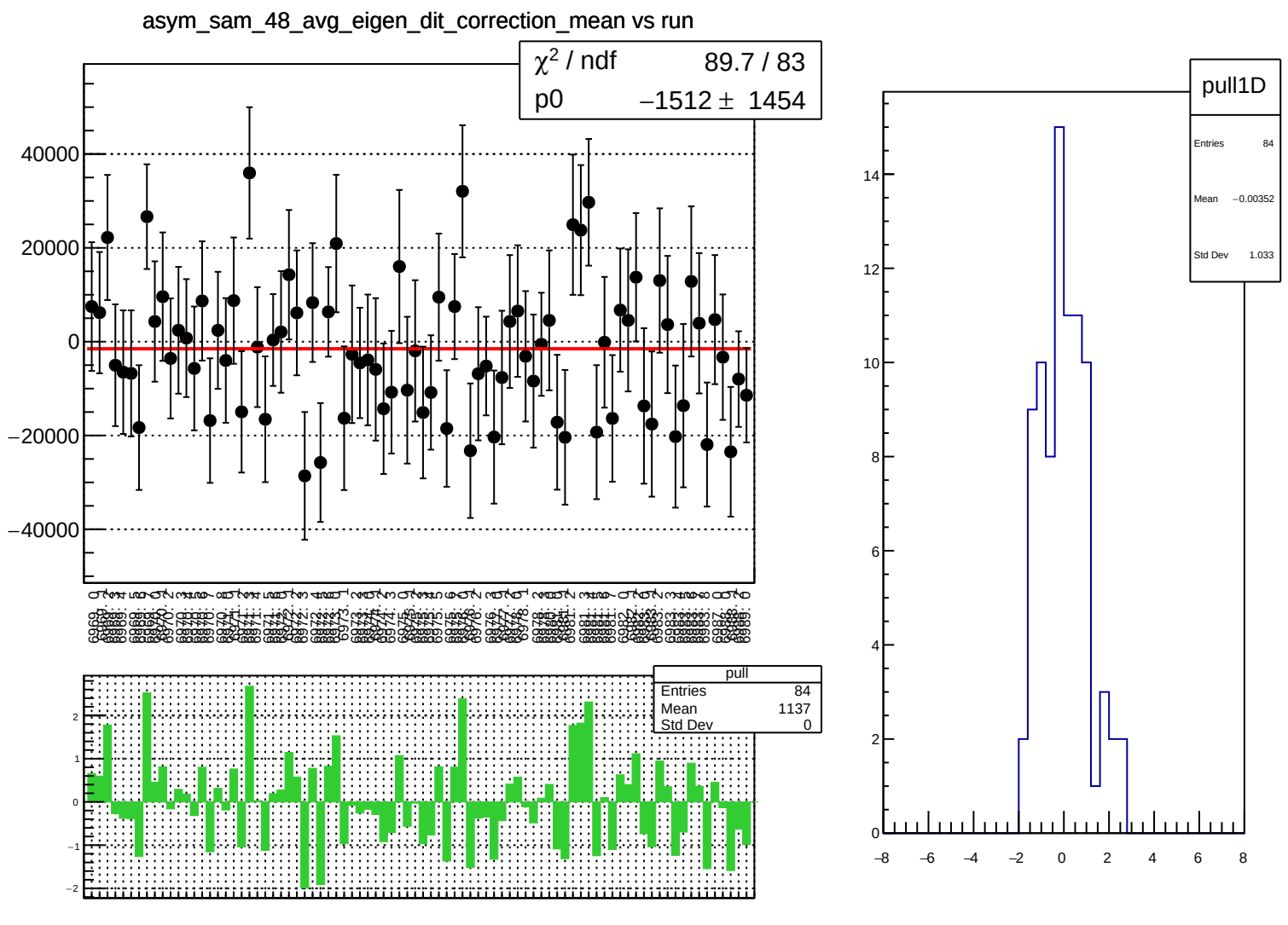

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 89.7 / 83
p0 −1512 ± 1454
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 1137
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.003519
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

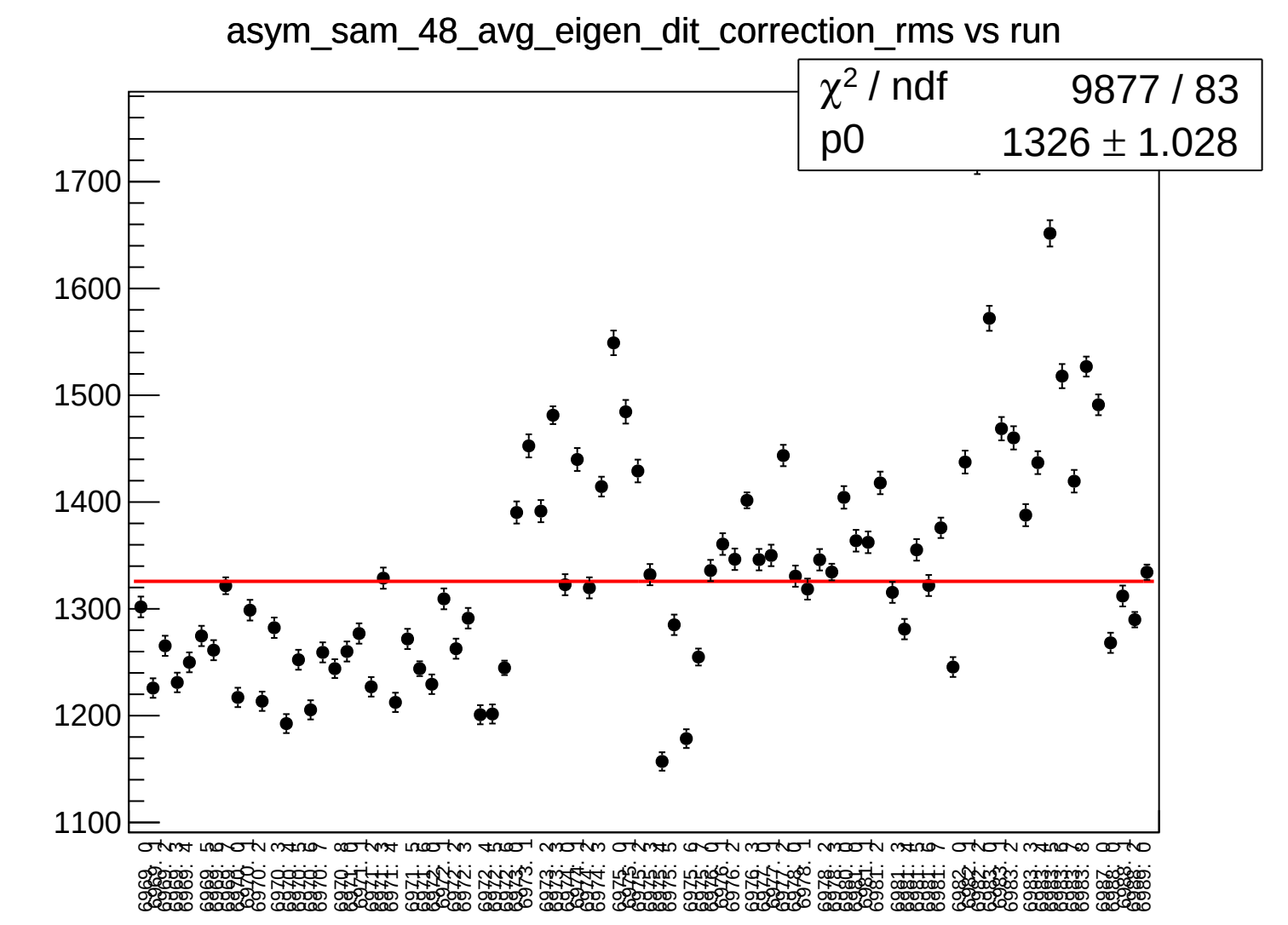

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 9877 / 83
p0 1326 ± 1.028
1700
1600
1500
1400
1300
1200
1100

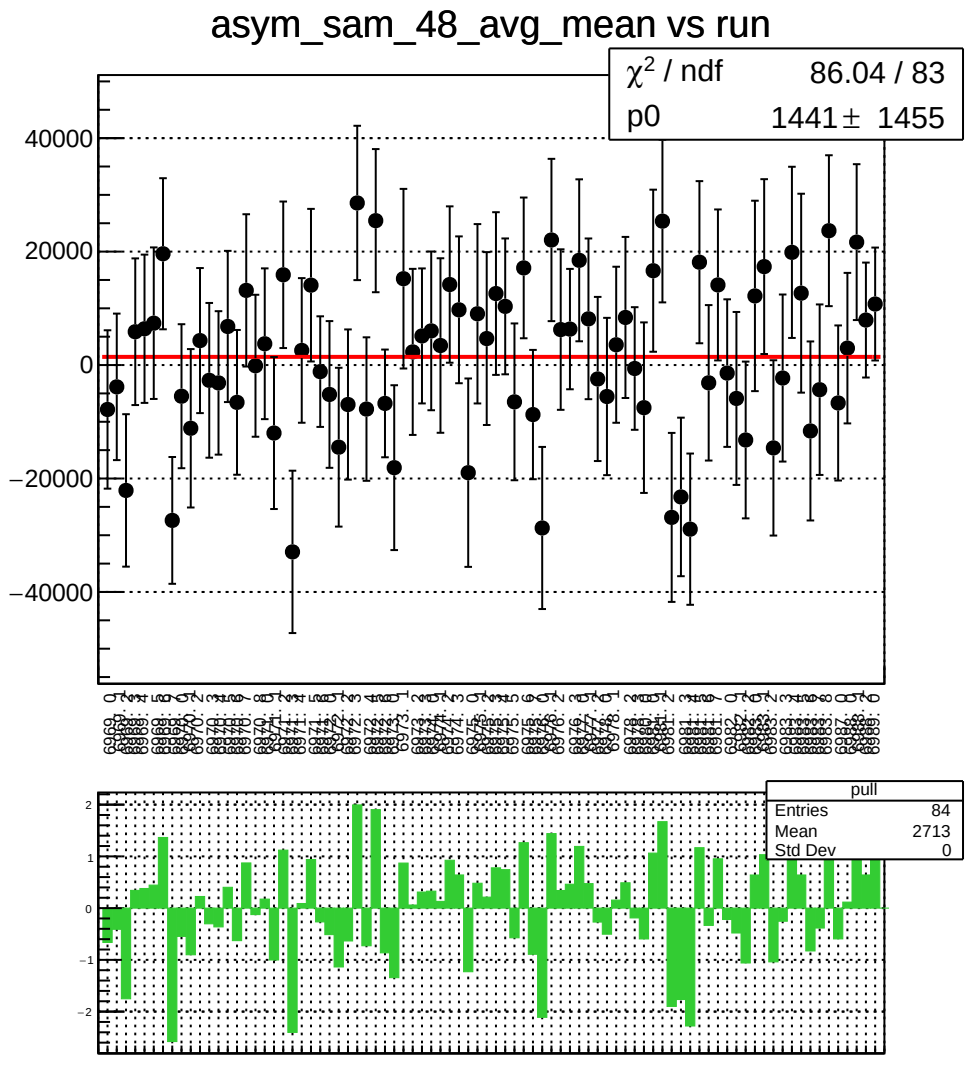

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 97.46 / 83
p0 −139 ± 175
pull
Entries 84
Mean −564.1
Std Dev 0

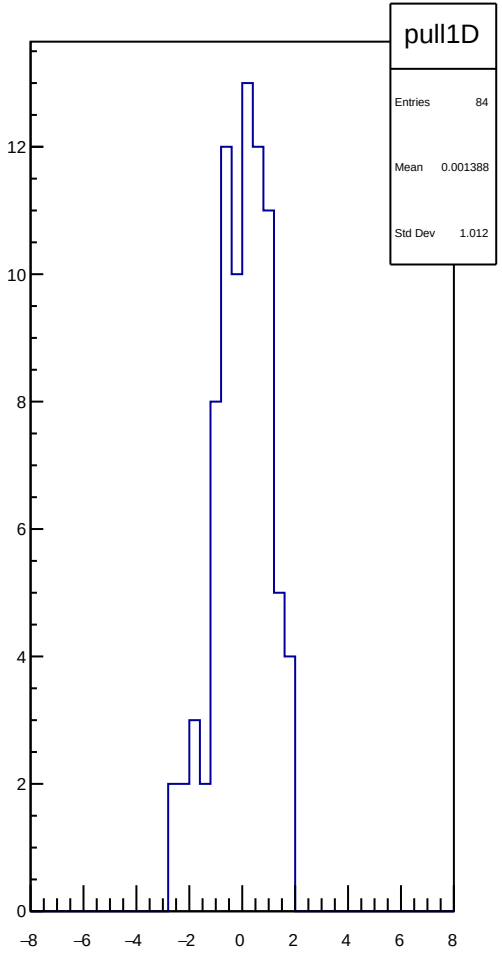

pull1D
Entries 84
Mean 0.001862
Std Dev 1.077

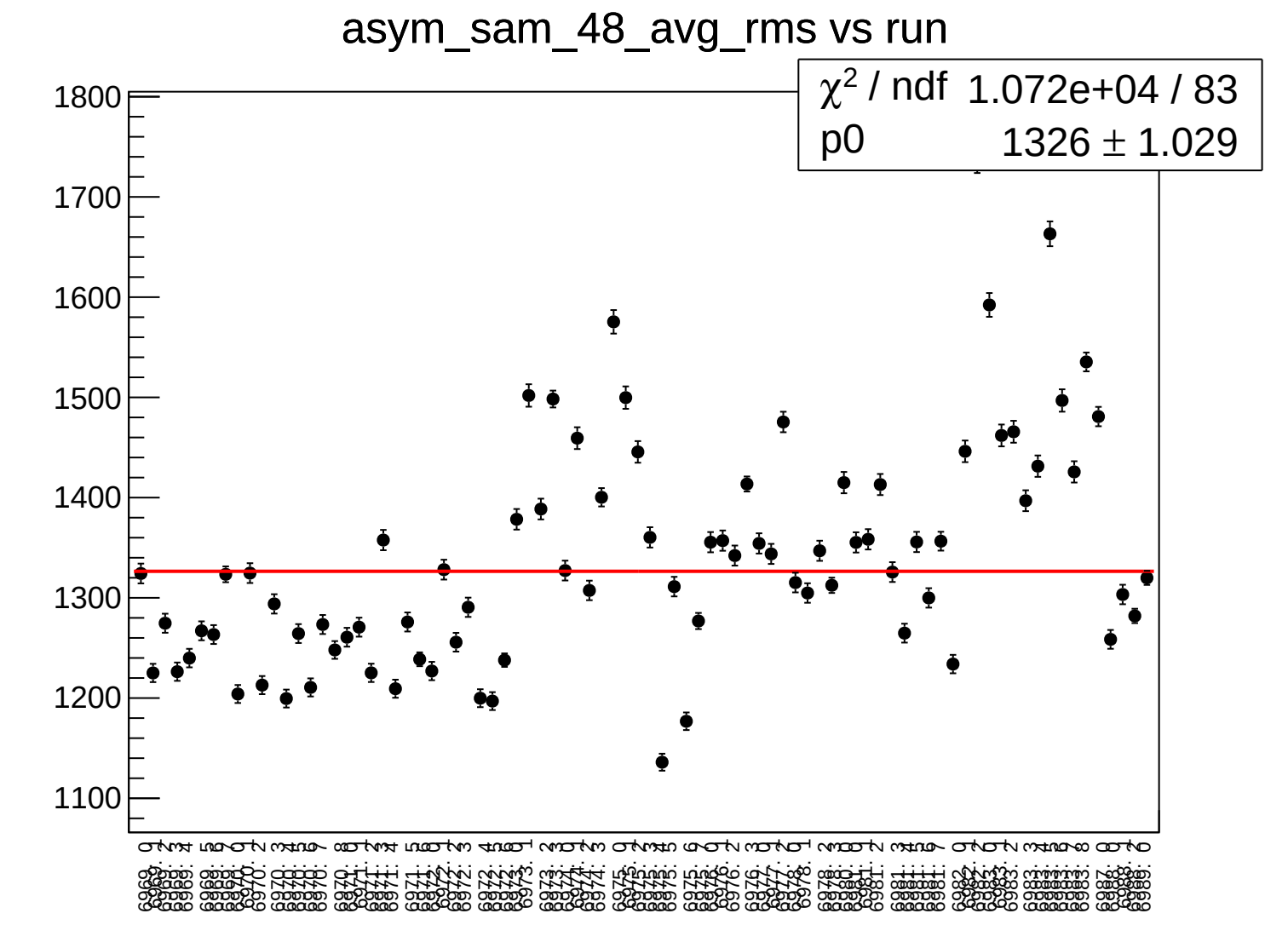

eigen_dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 1463 / 83
p0 160 ± 0.1237
185
180
175
170
165
160
155
150

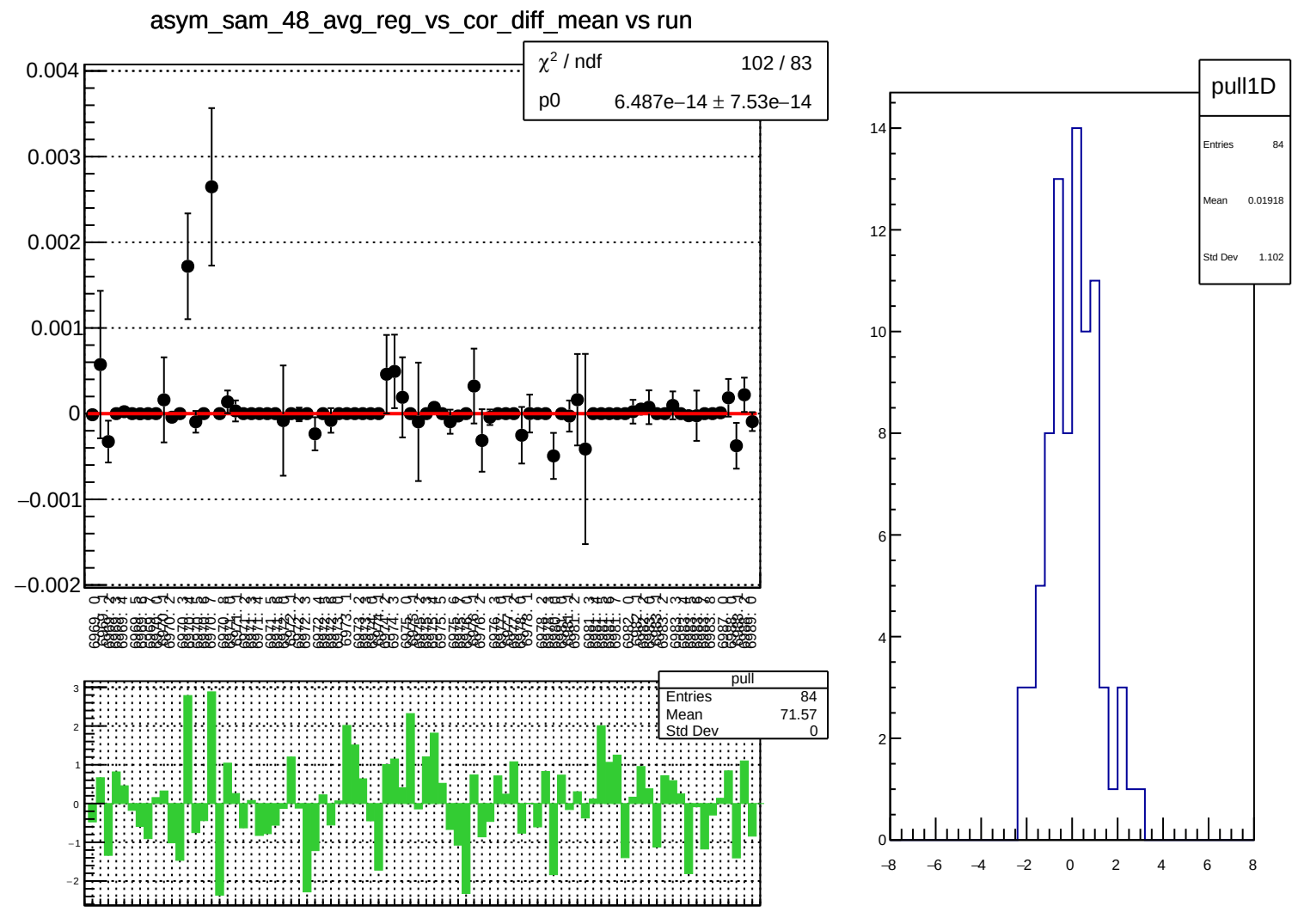

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.7 / 83
p0 −1512 ± 1454
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 1137
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.00352
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

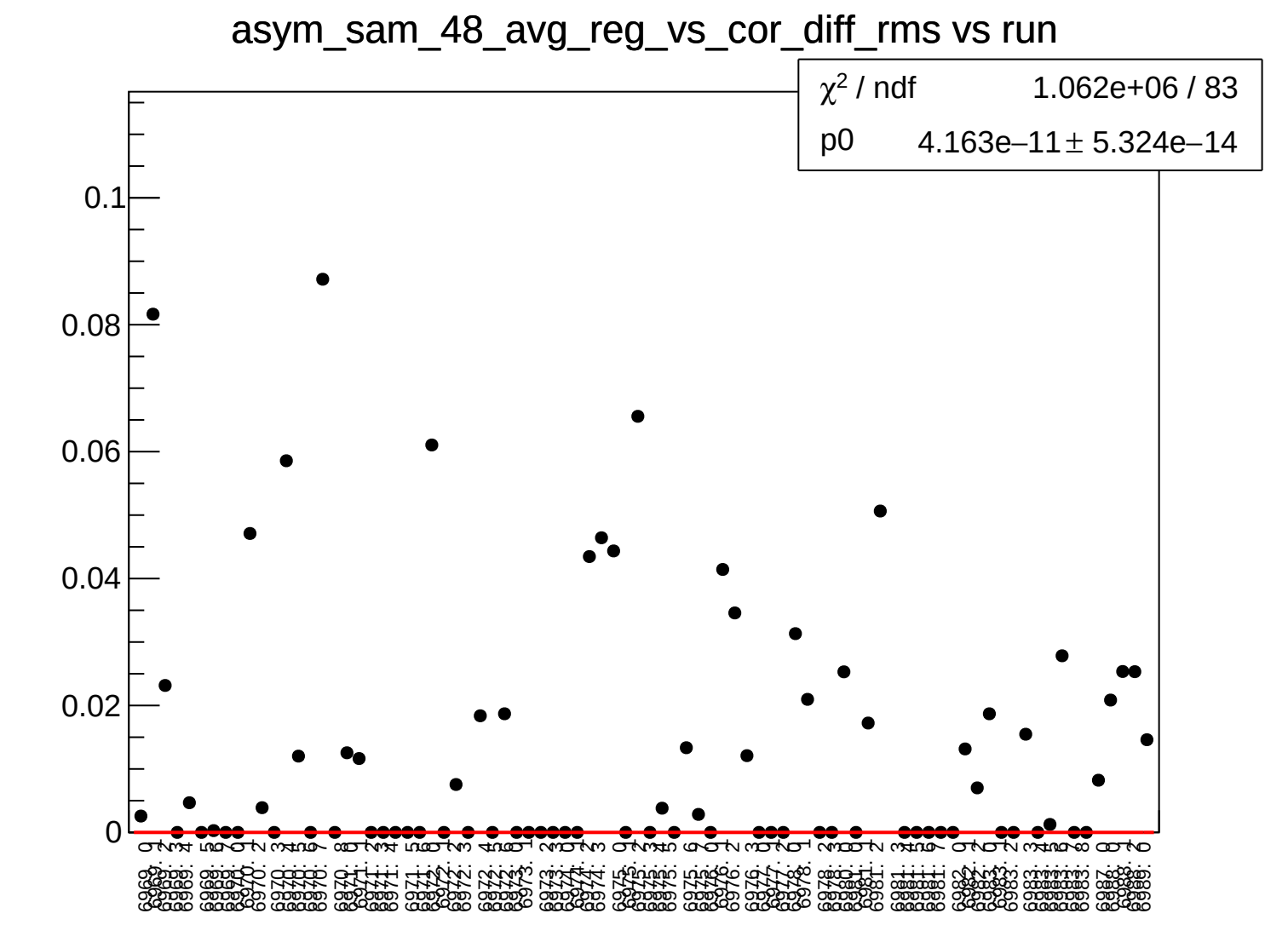

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 9877 / 83
p0 1326 ± 1.028
1700
1600
1500
1400
1300
1200
1100

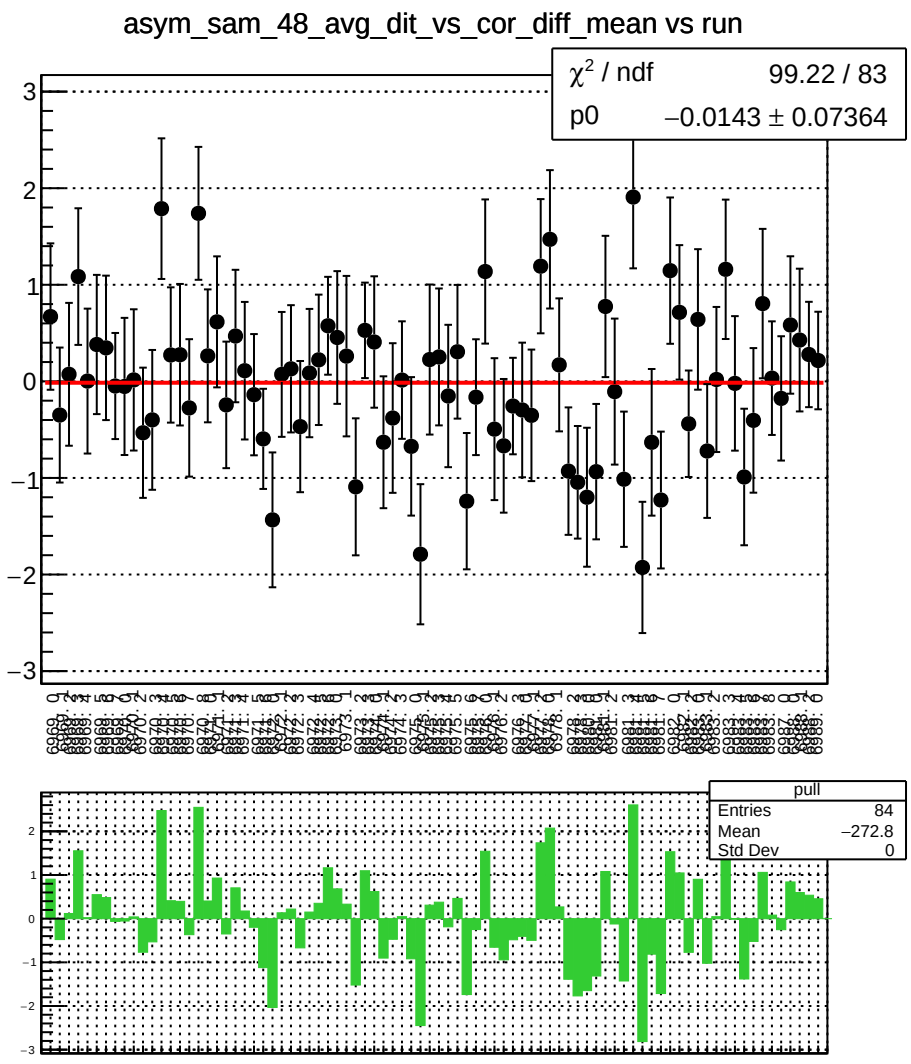

asym_sam_48_avg_mean vs run
χ² / ndf 86.04 / 83
p0 1441 ± 1455
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 2713
Std Dev 0
2
1
0
−1
−2

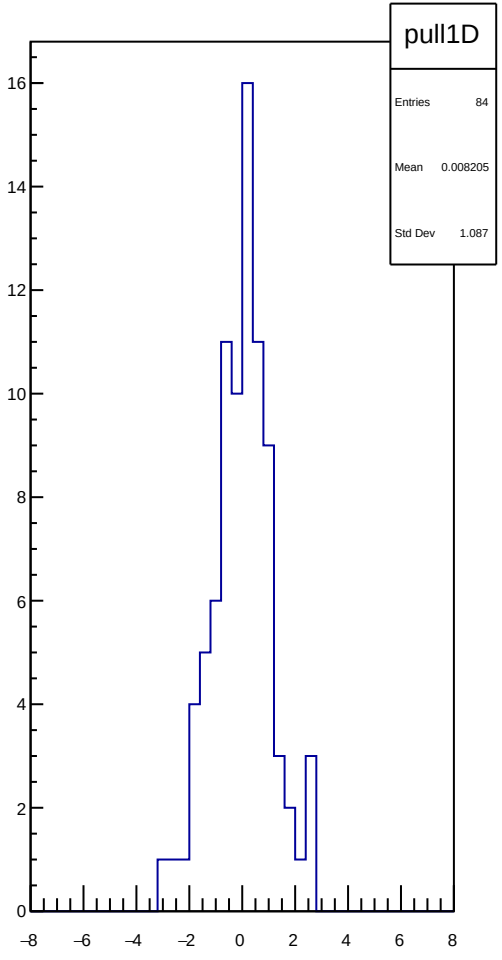

pull1D
Entries 84
Mean 0.001388
Std Dev 1.012
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

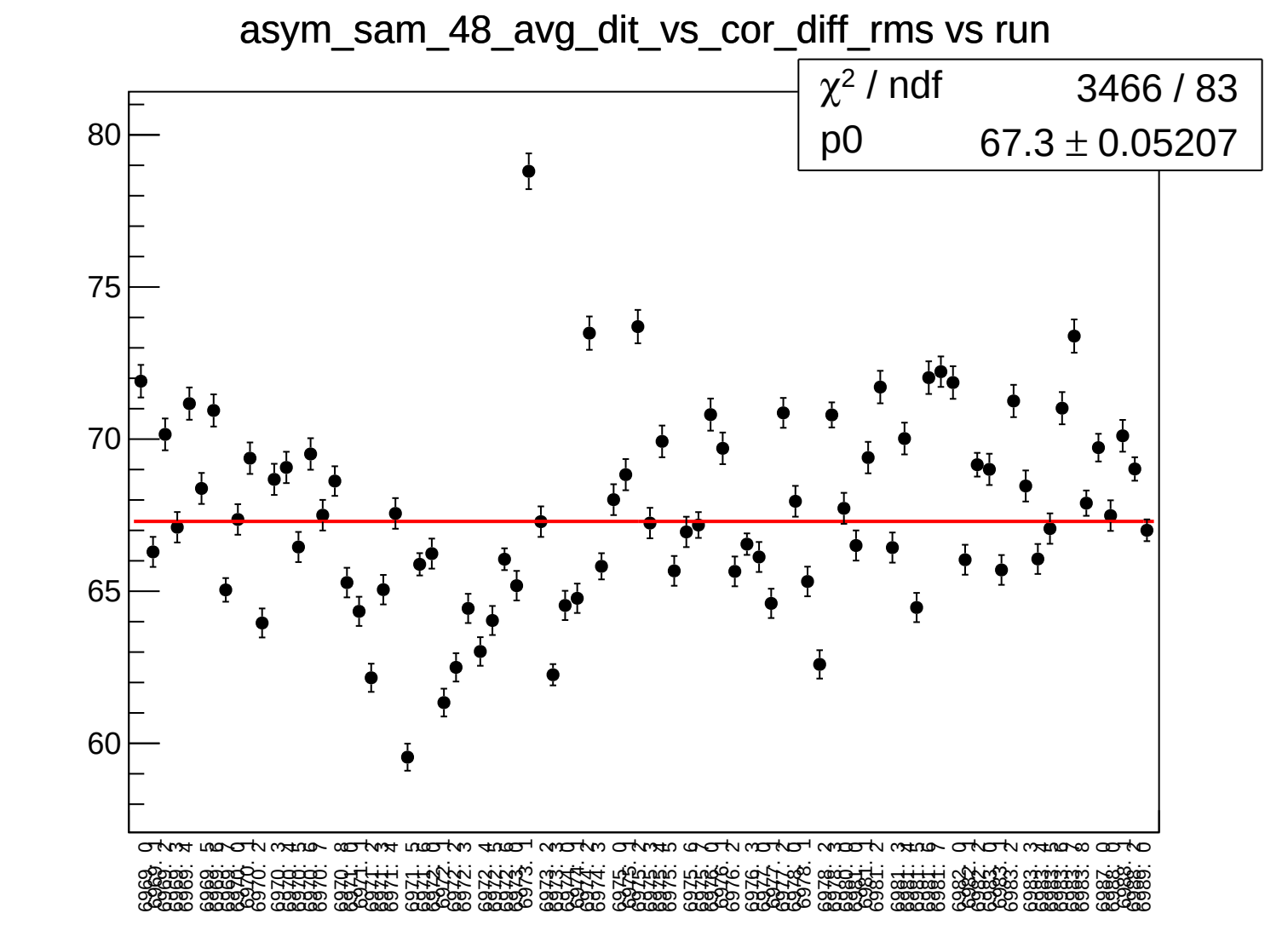

asym_sam_48_avg_rms vs run
χ² / ndf 1.072e+04 / 83
p0 1326 ± 1.029
1800
1700
1600
1500
1400
1300
1200
1100

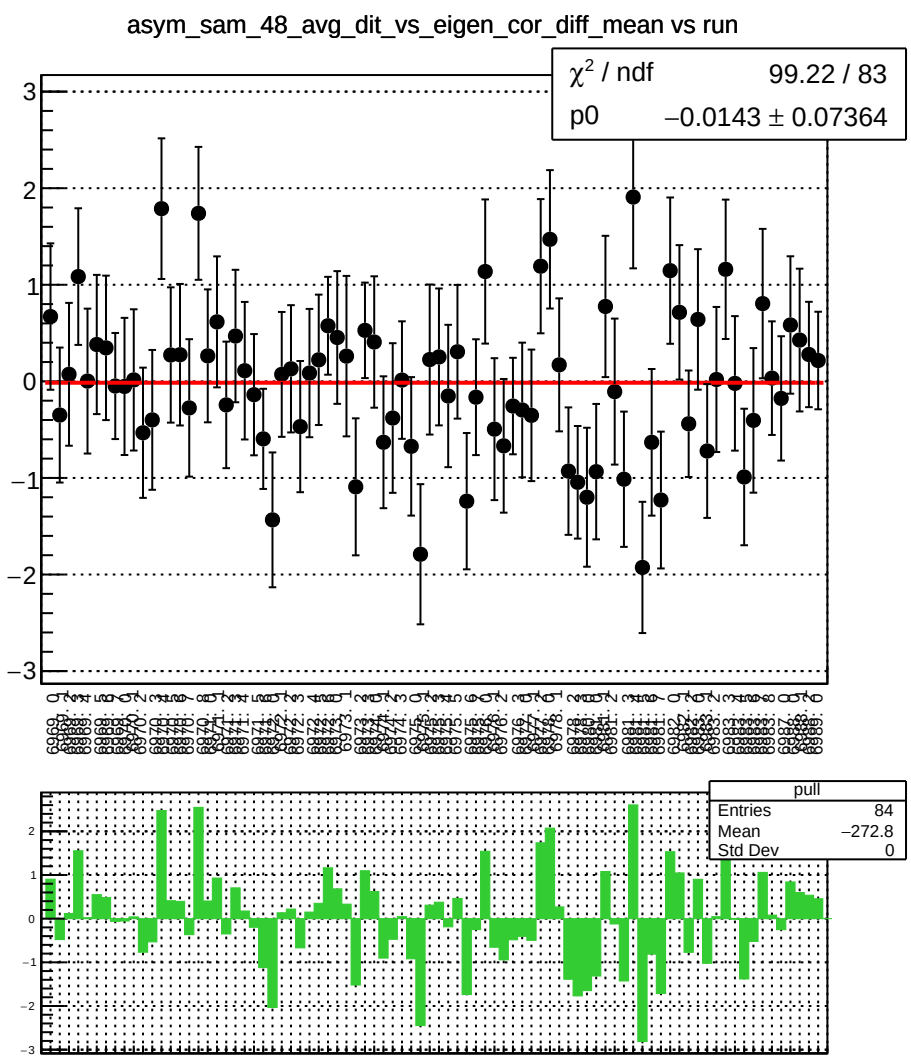

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102 / 83
p0 6.487e−14 ± 7.53e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 84
Mean 71.57
Std Dev 0
pull1D
Entries 84
Mean 0.01918
Std Dev 1.102

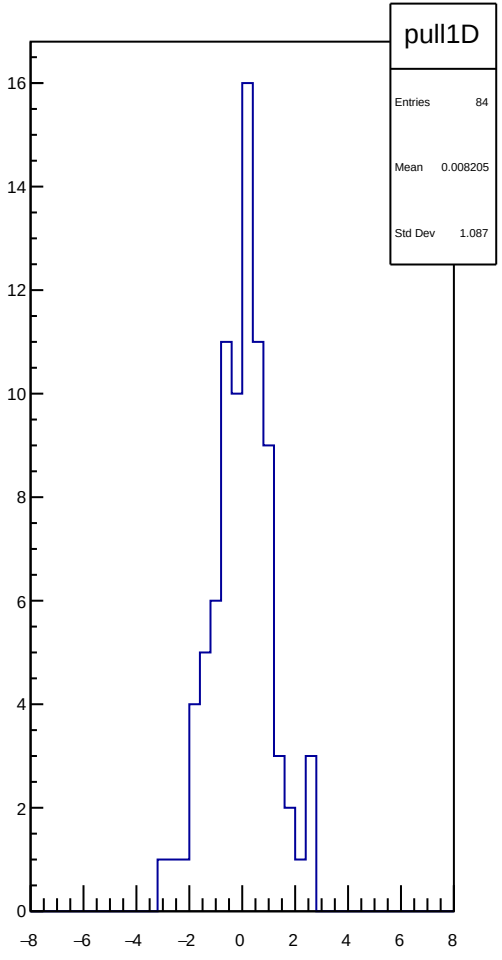

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 83
p0 4.163e−11 ± 5.324e−14
0.1
0.08
0.06
0.04
0.02
0

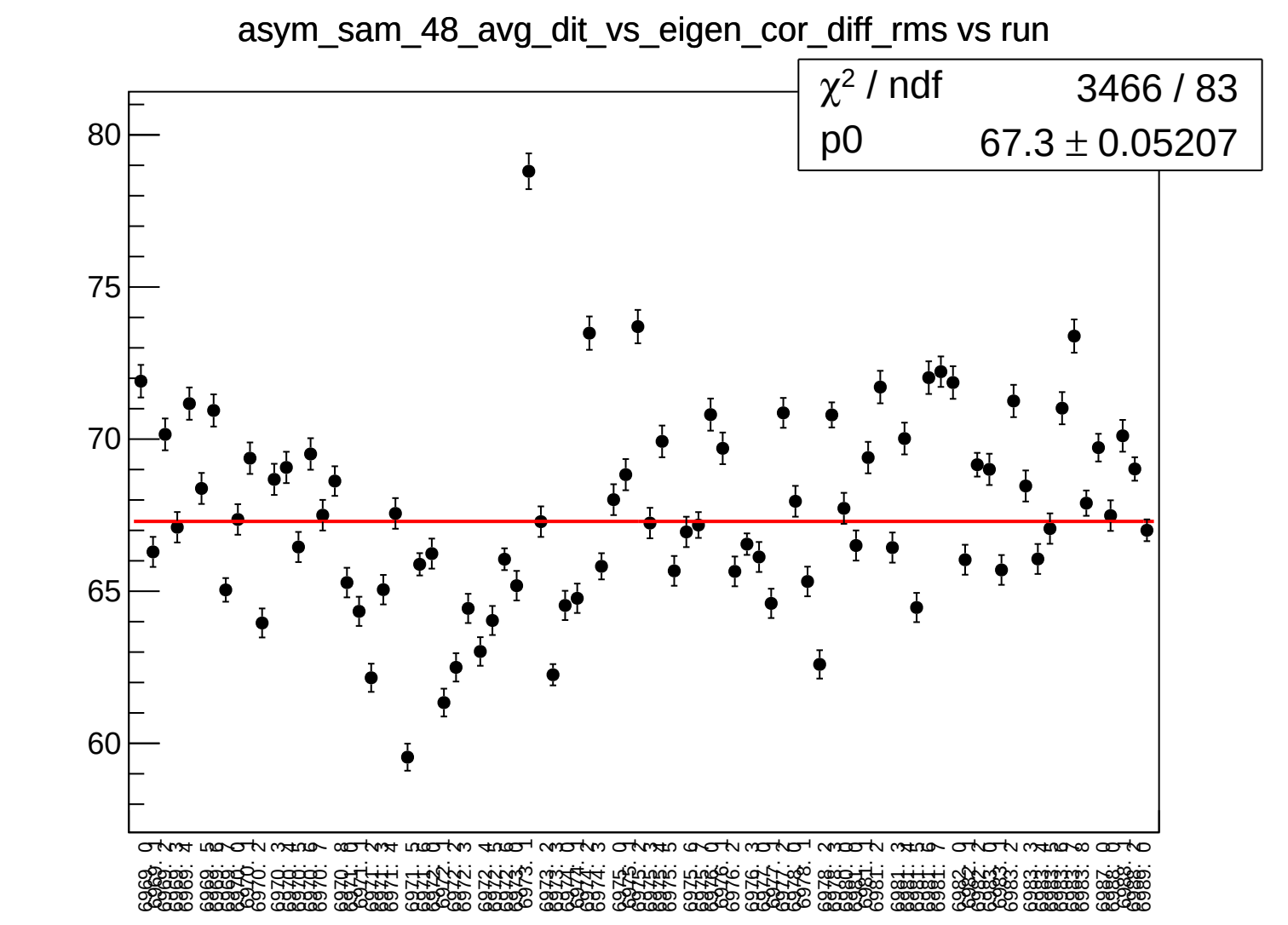

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.22 / 83
p0 −0.0143 ± 0.07364
pull
Entries 84
Mean −272.8
Std Dev 0

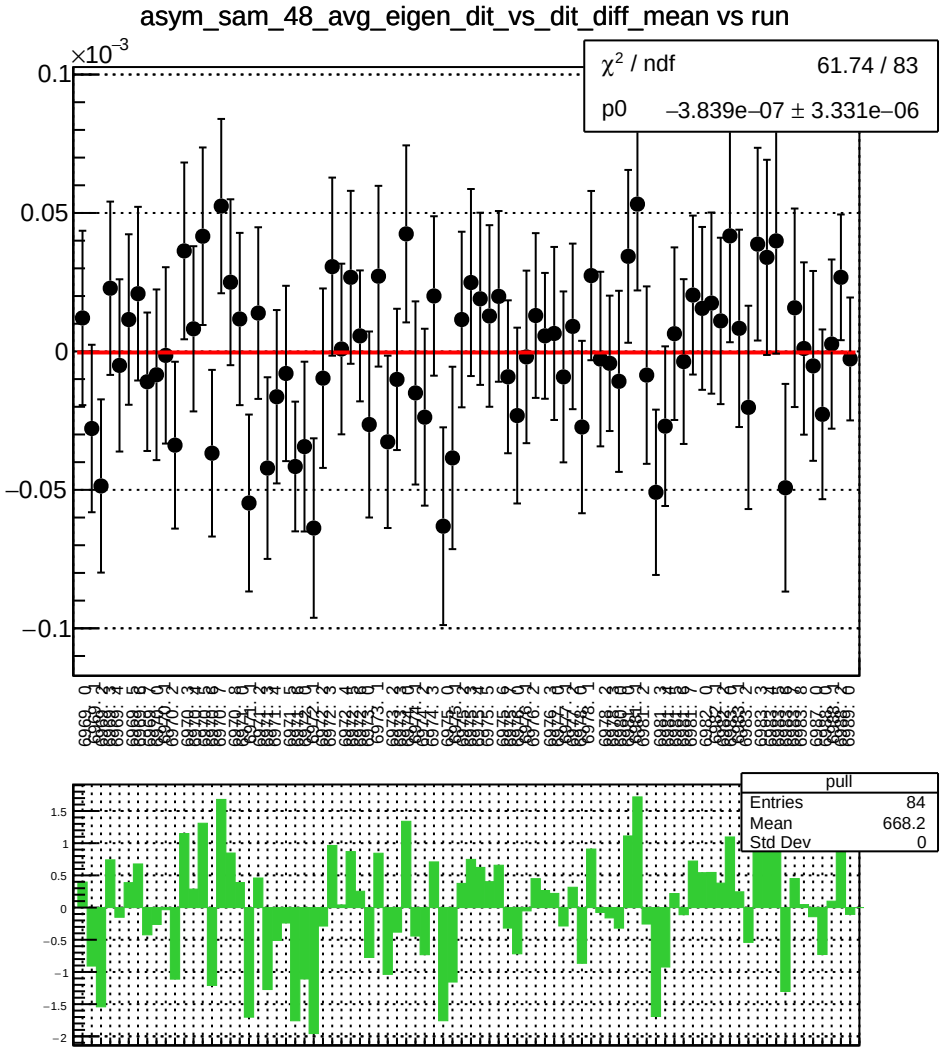

pull1D
Entries 84
Mean 0.008205
Std Dev 1.087

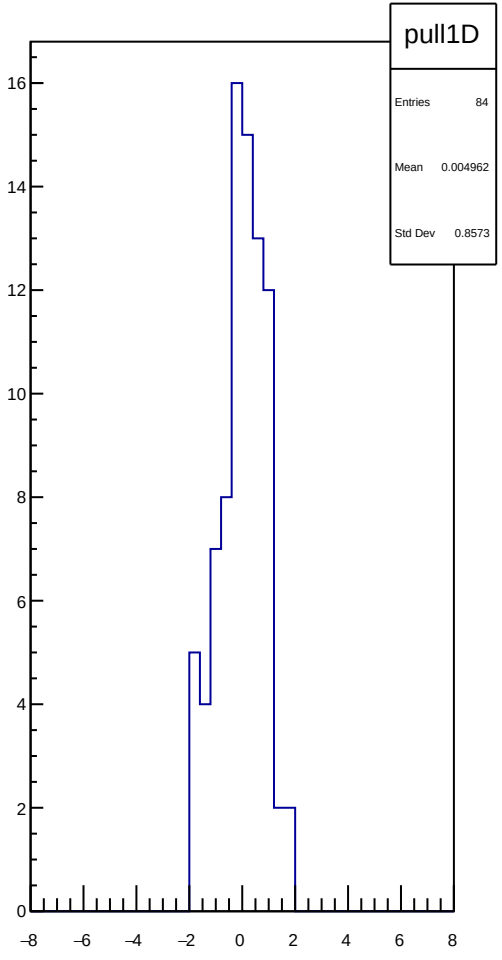

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3466 / 83
p0 67.3 ± 0.05207
80
75
70
65
60

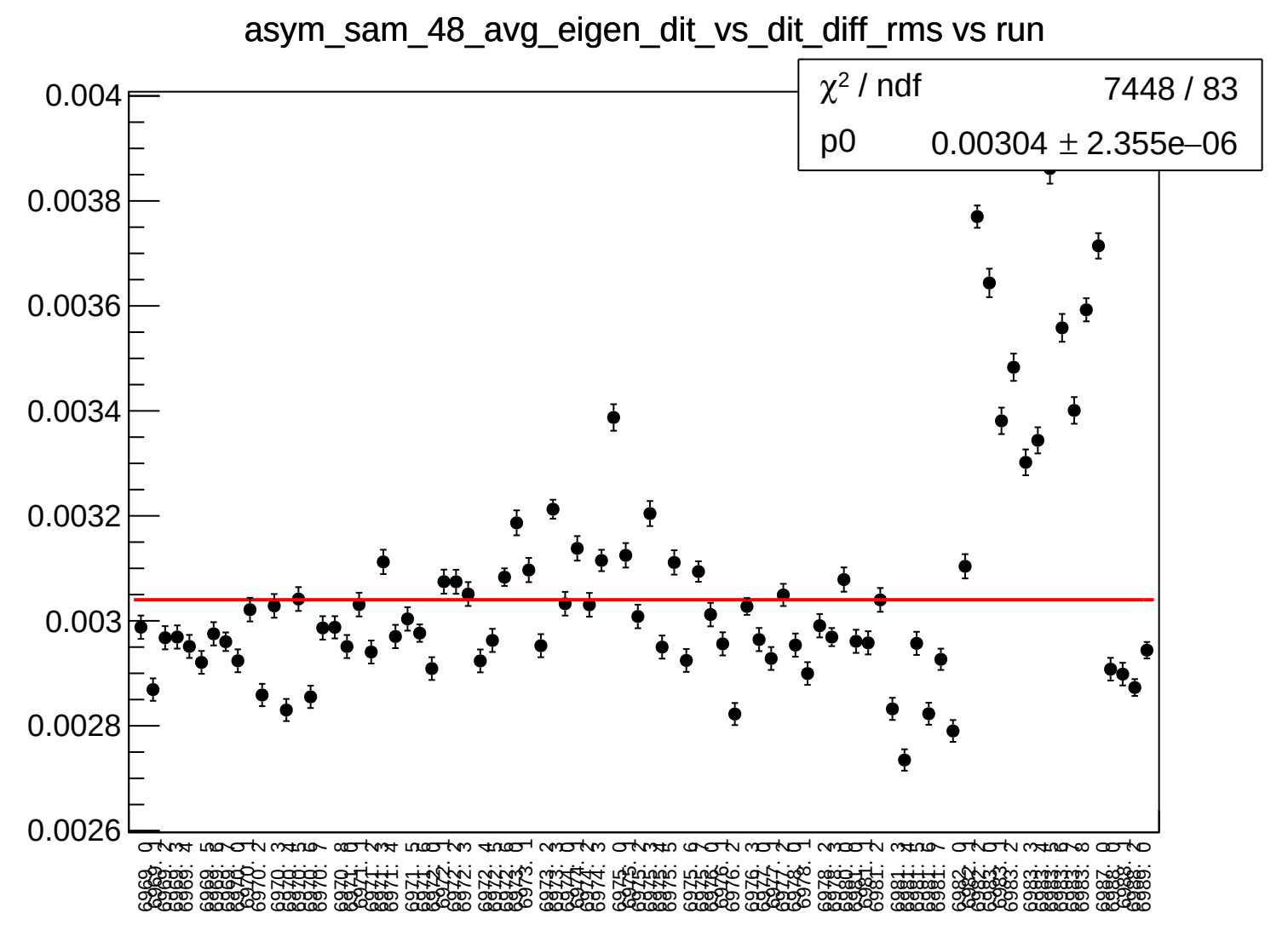

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.22 / 83
p0 −0.0143 ± 0.07364
pull
Entries 84
Mean −272.8
Std Dev 0

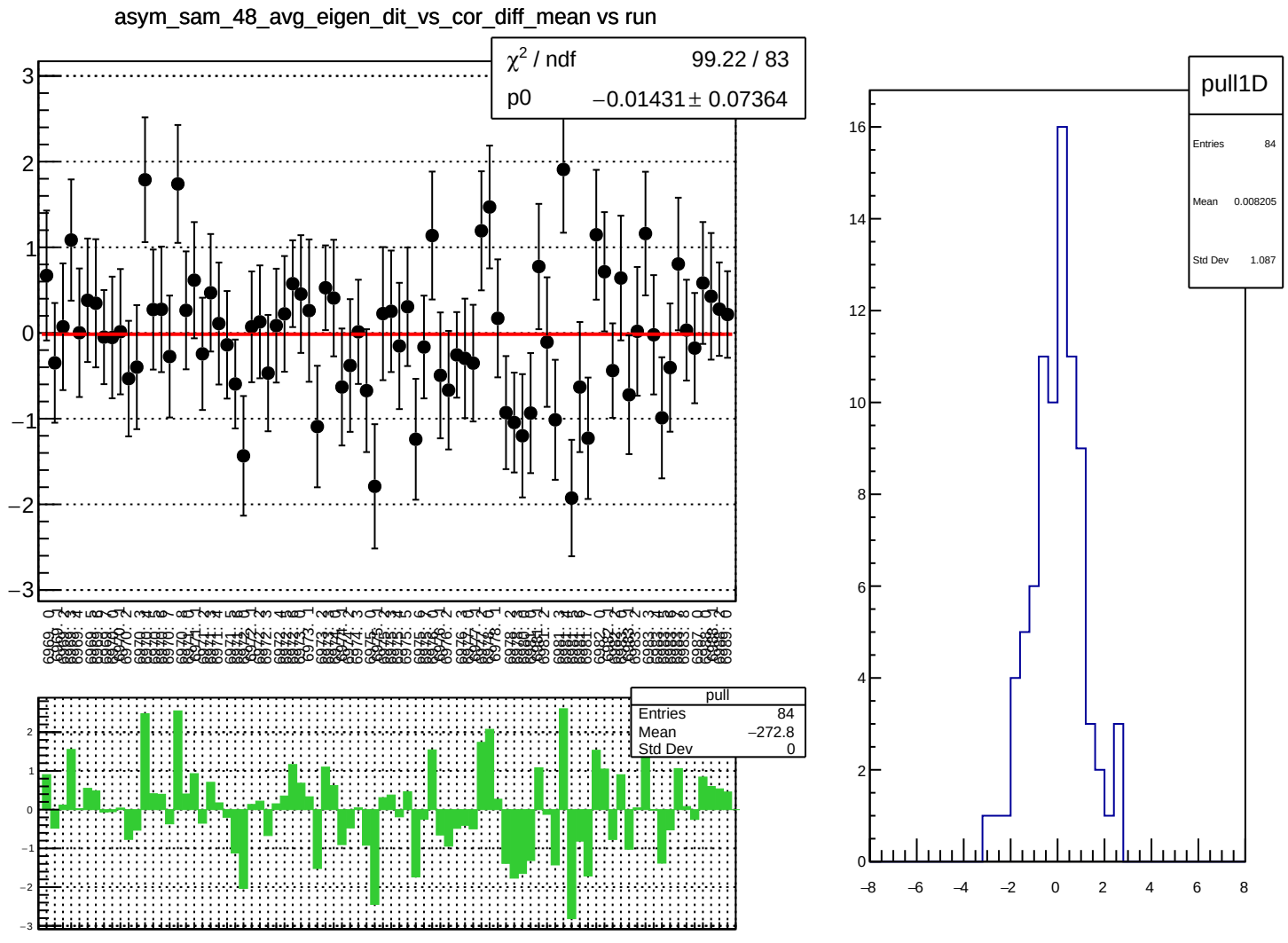

pull1D
Entries 84
Mean 0.008205
Std Dev 1.087

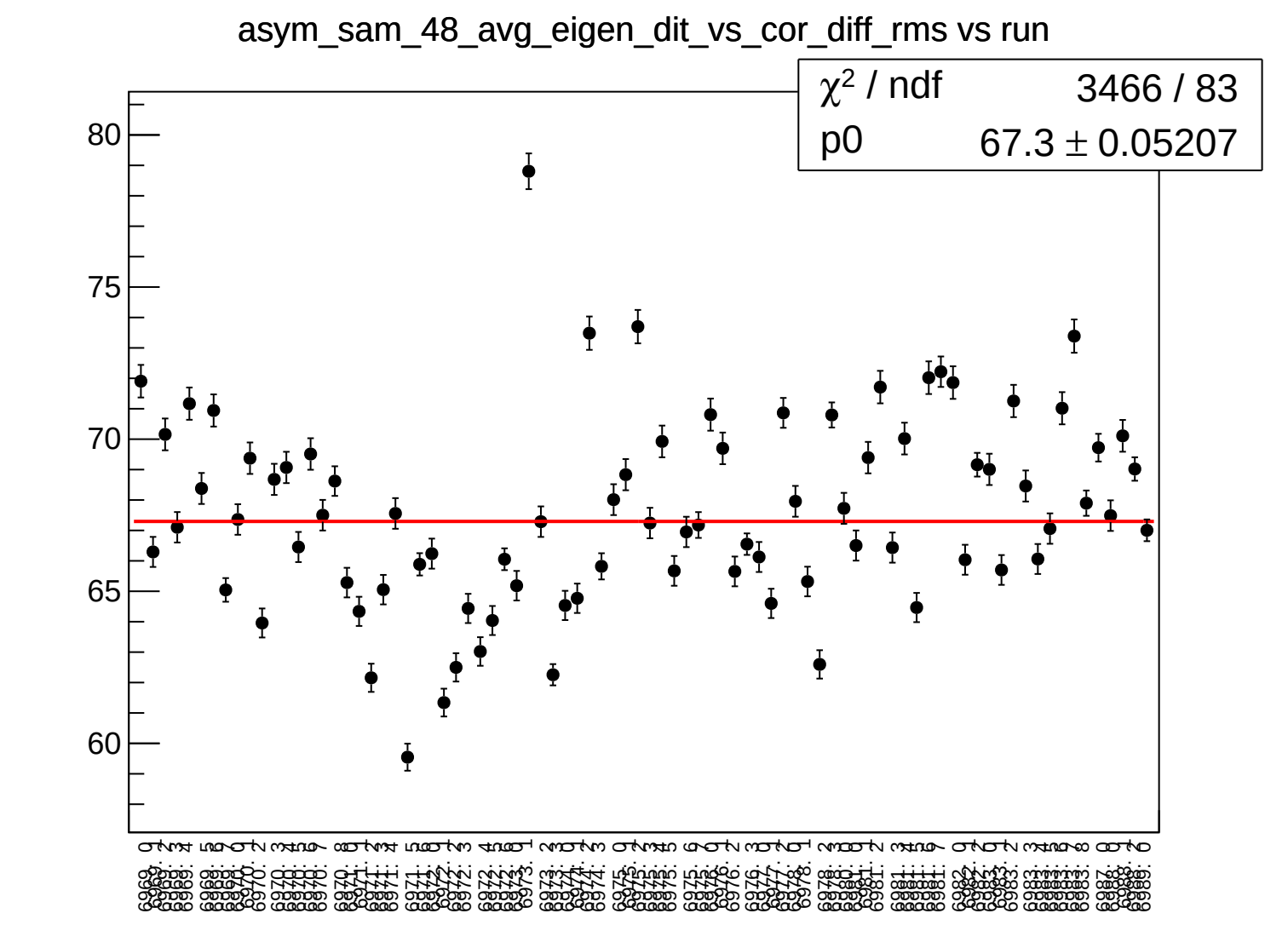

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3466 / 83
p0 67.3 ± 0.05207
80
75
70
65
60

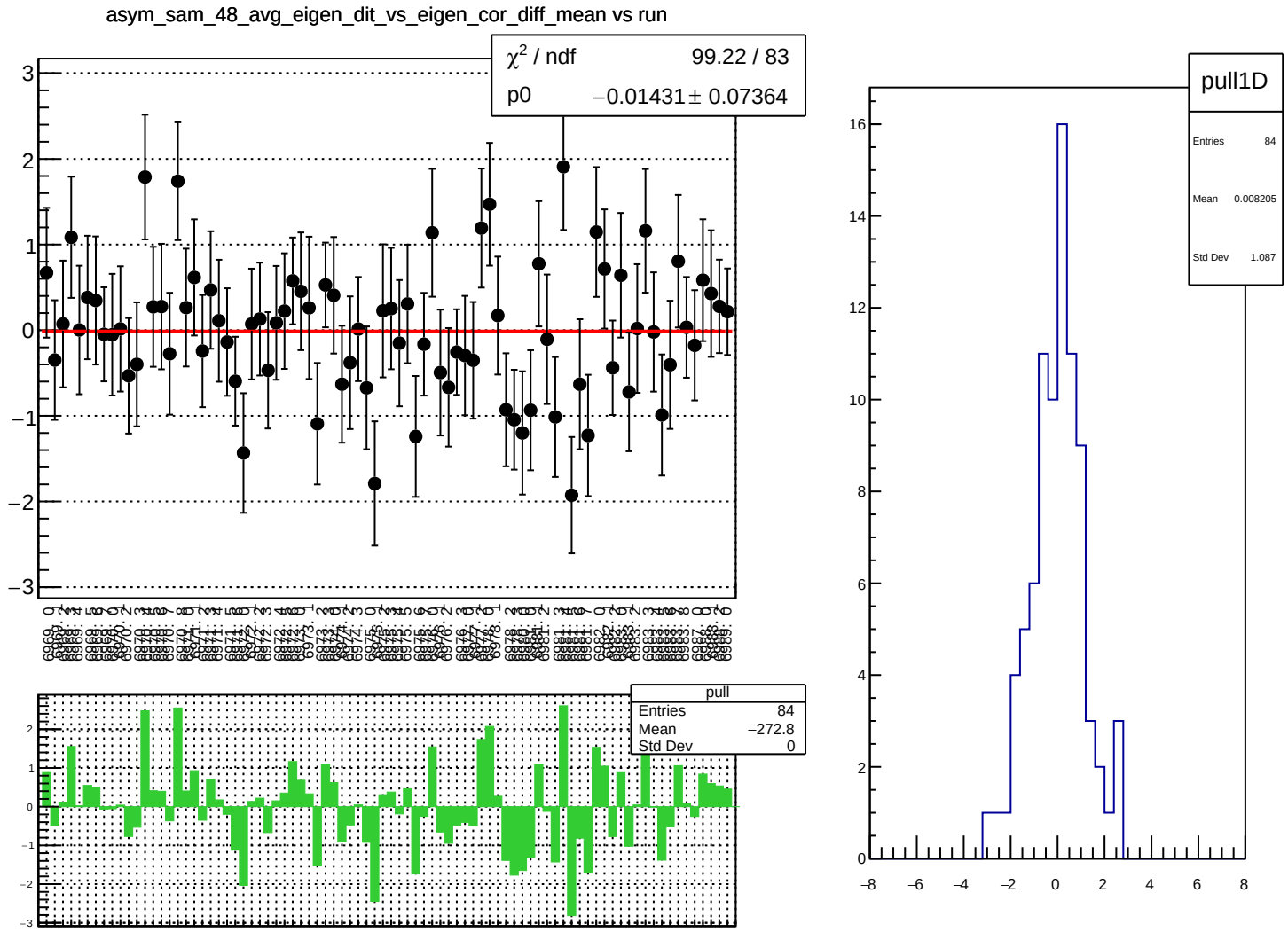

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 61.74 / 83
p0 −3.839e−07 ± 3.331e−06
pull
Entries 84
Mean 668.2
Std Dev 0

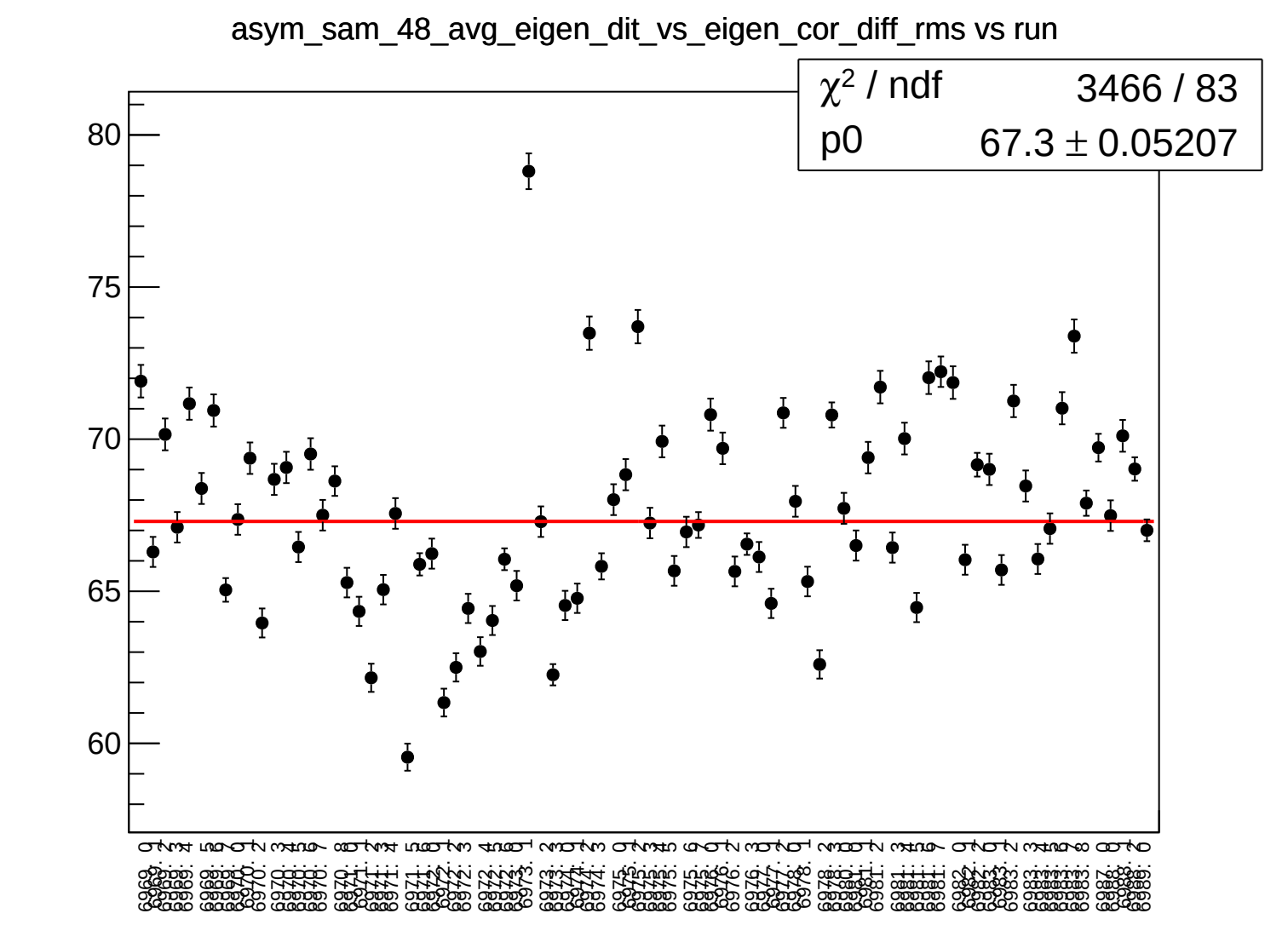

pull1D
Entries 84
Mean 0.004962
Std Dev 0.8573

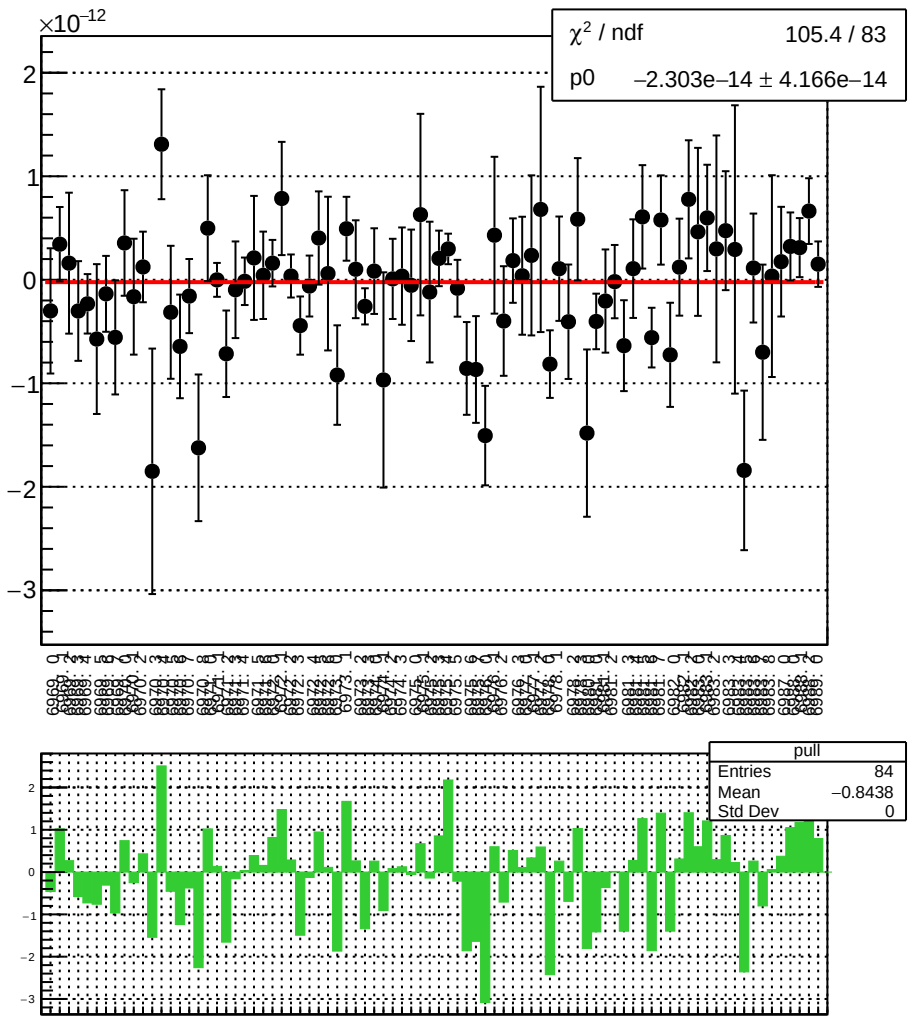

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7448 / 83
p0 0.00304 ± 2.355e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

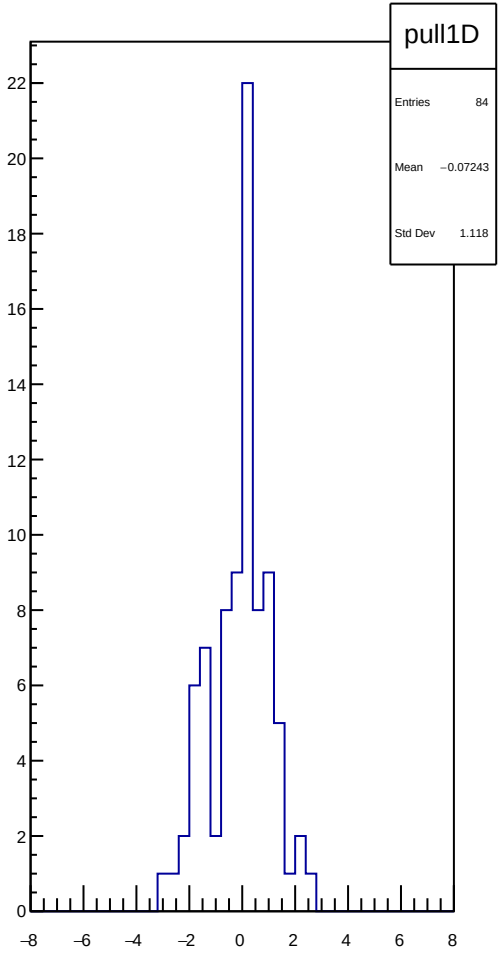

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.22 / 83
p0 −0.01431 ± 0.07364
pull
Entries 84
Mean −272.8
Std Dev 0
pull1D
Entries 84
Mean 0.008205
Std Dev 1.087

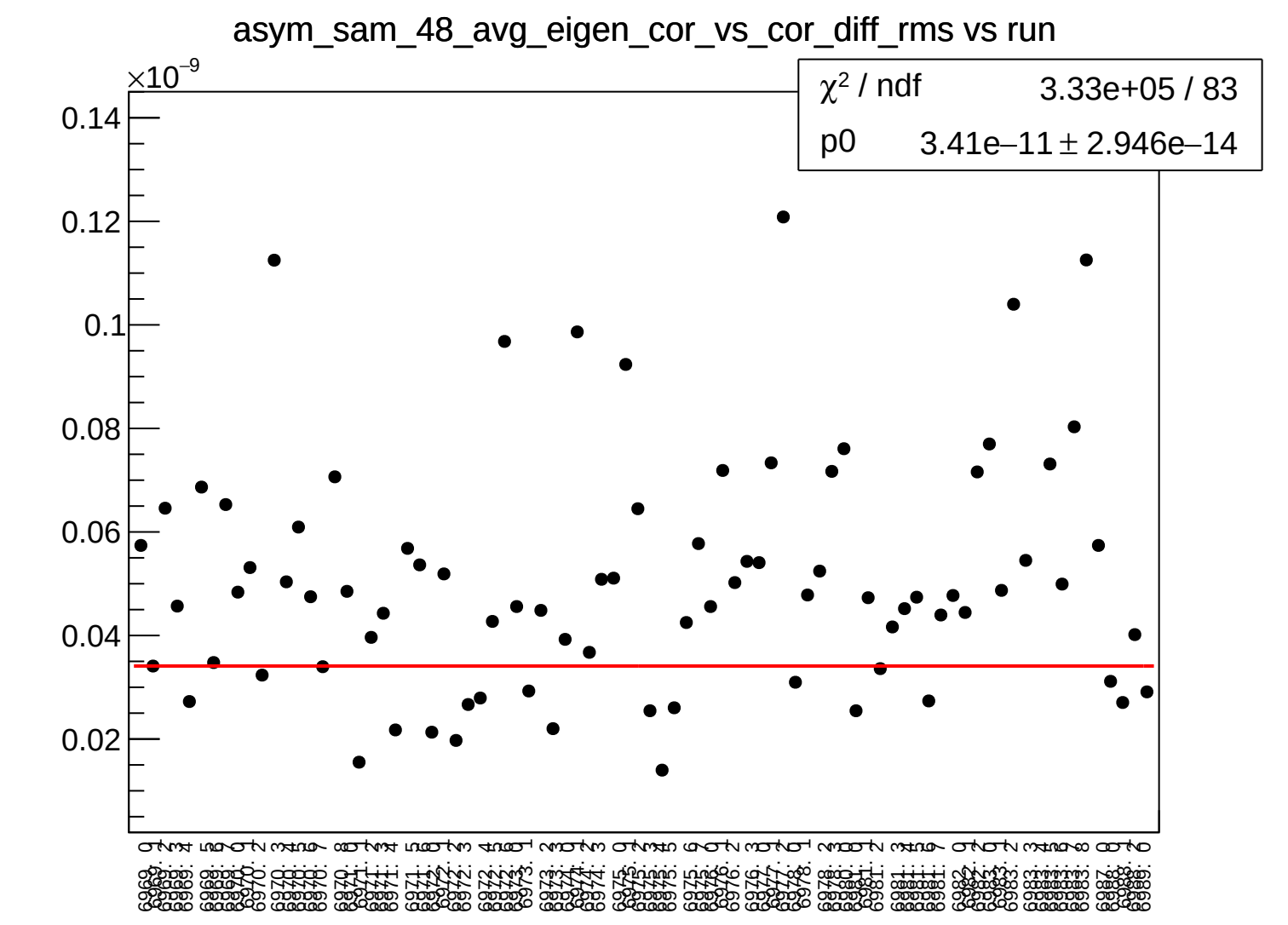

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3466 / 83
p0 67.3 ± 0.05207
80
75
70
65
60

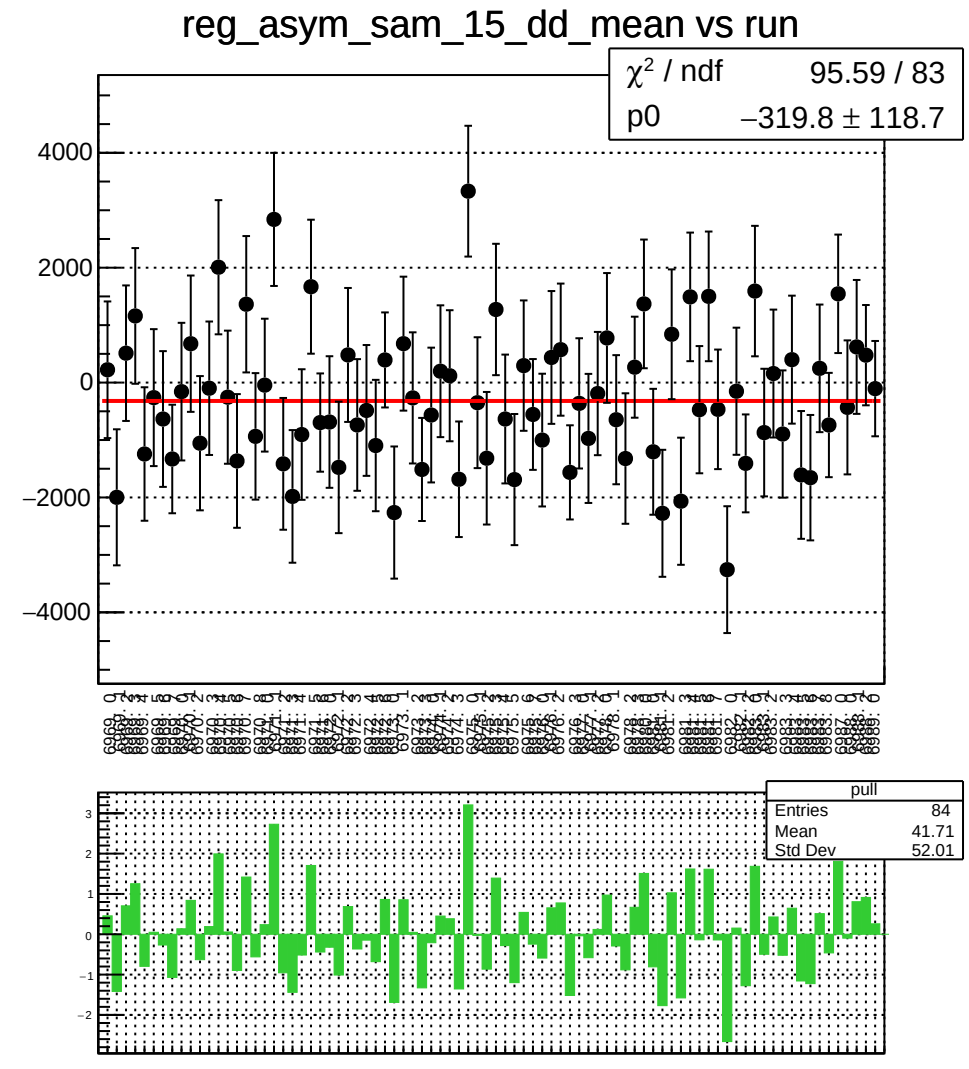

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.22 / 83
p0 −0.01431 ± 0.07364
pull
Entries 84
Mean −272.8
Std Dev 0
pull1D
Entries 84
Mean 0.008205
Std Dev 1.087

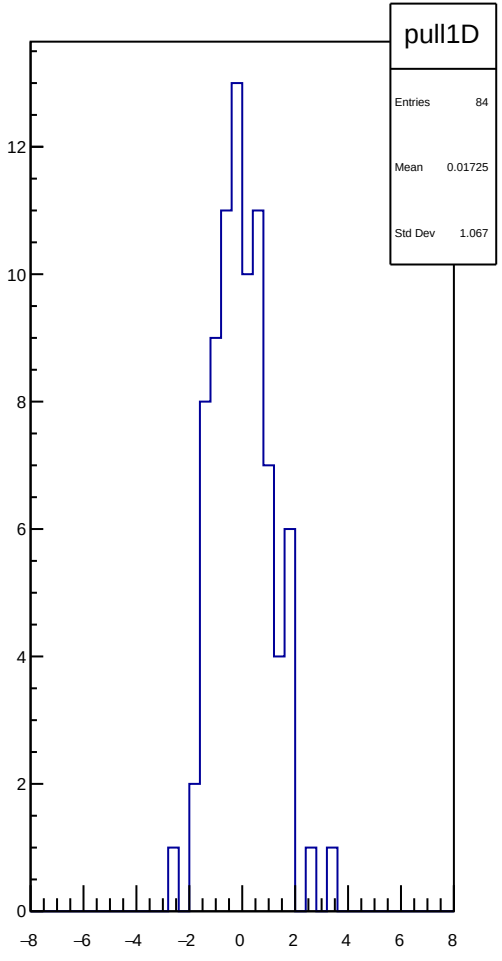

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3466 / 83
p0 67.3 ± 0.05207
80
75
70
65
60

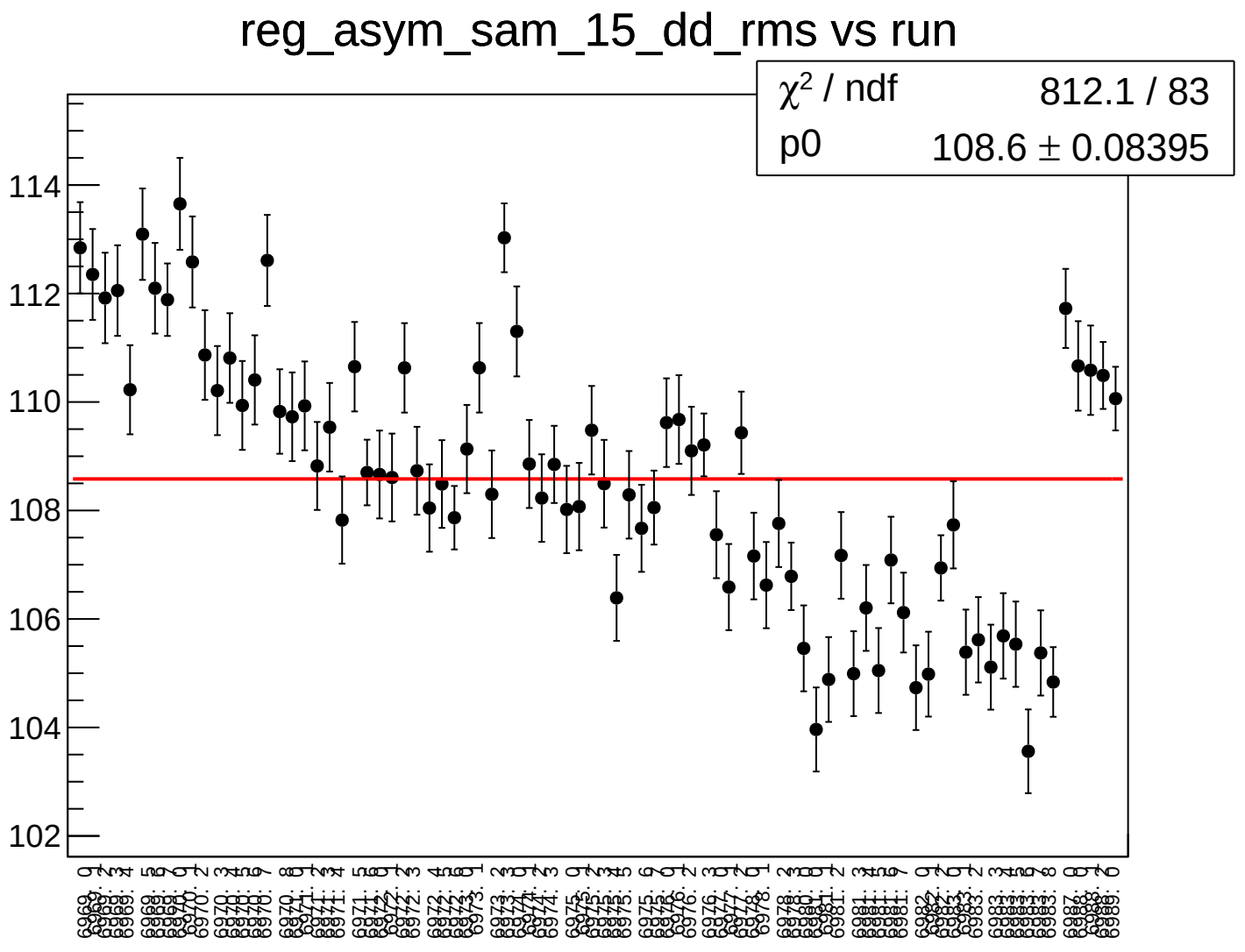

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.4 / 83
p0 −2.303e−14 ± 4.166e−14
pull
Entries 84
Mean −0.8438
Std Dev 0

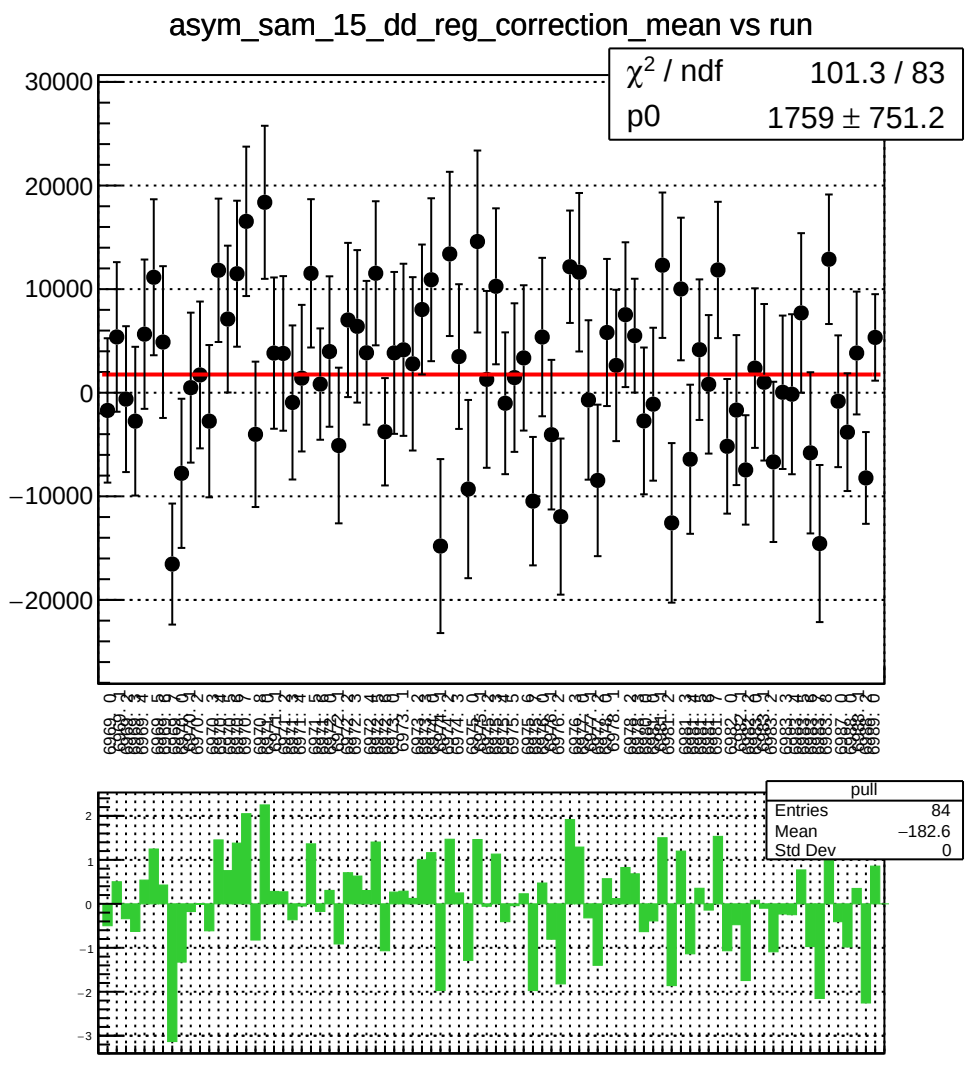

pull1D
Entries 84
Mean −0.07243
Std Dev 1.118

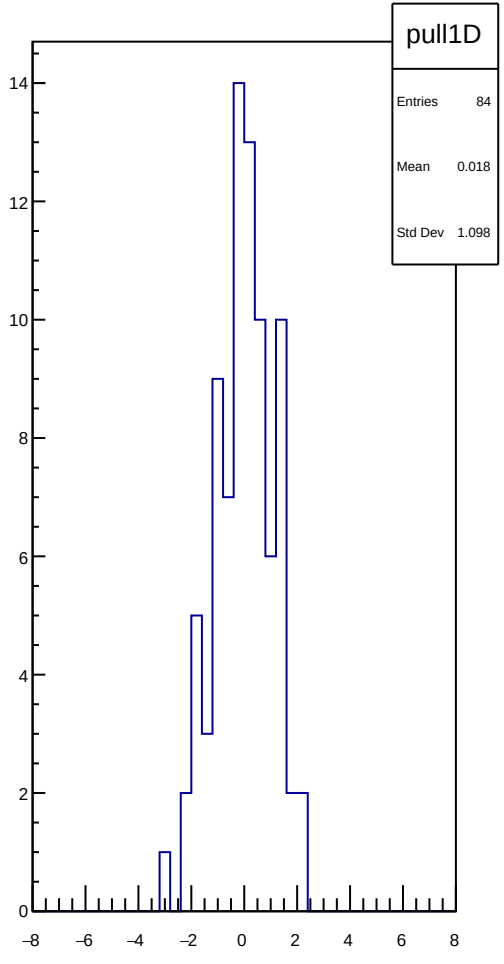

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.33e+05 / 83
p0 3.41e−11 ± 2.946e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

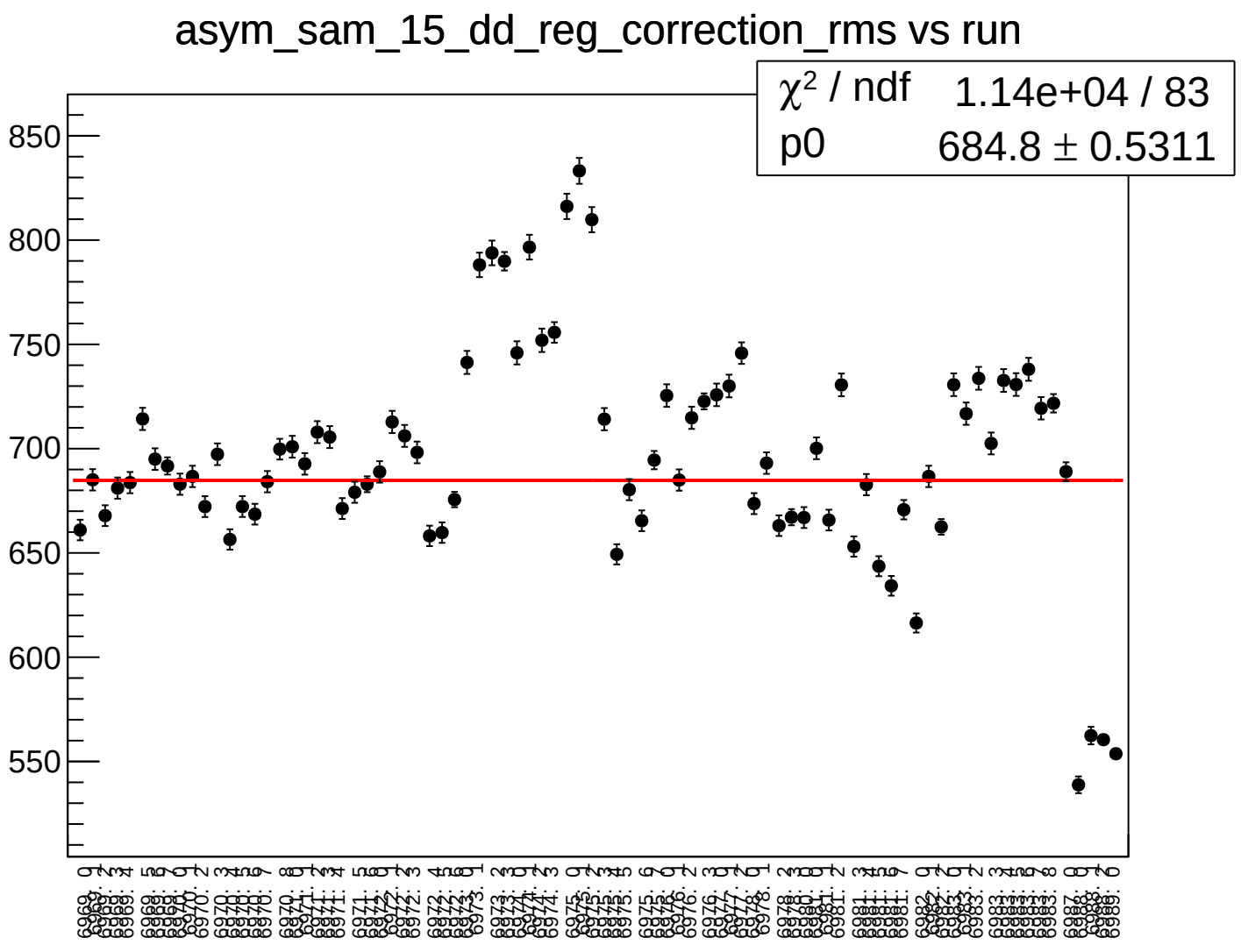

reg_asym_sam_15_dd_mean vs run
χ² / ndf 95.59 / 83
p0 −319.8 ± 118.7
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 41.71
Std Dev 52.01
3
2
1
0
−1
−2

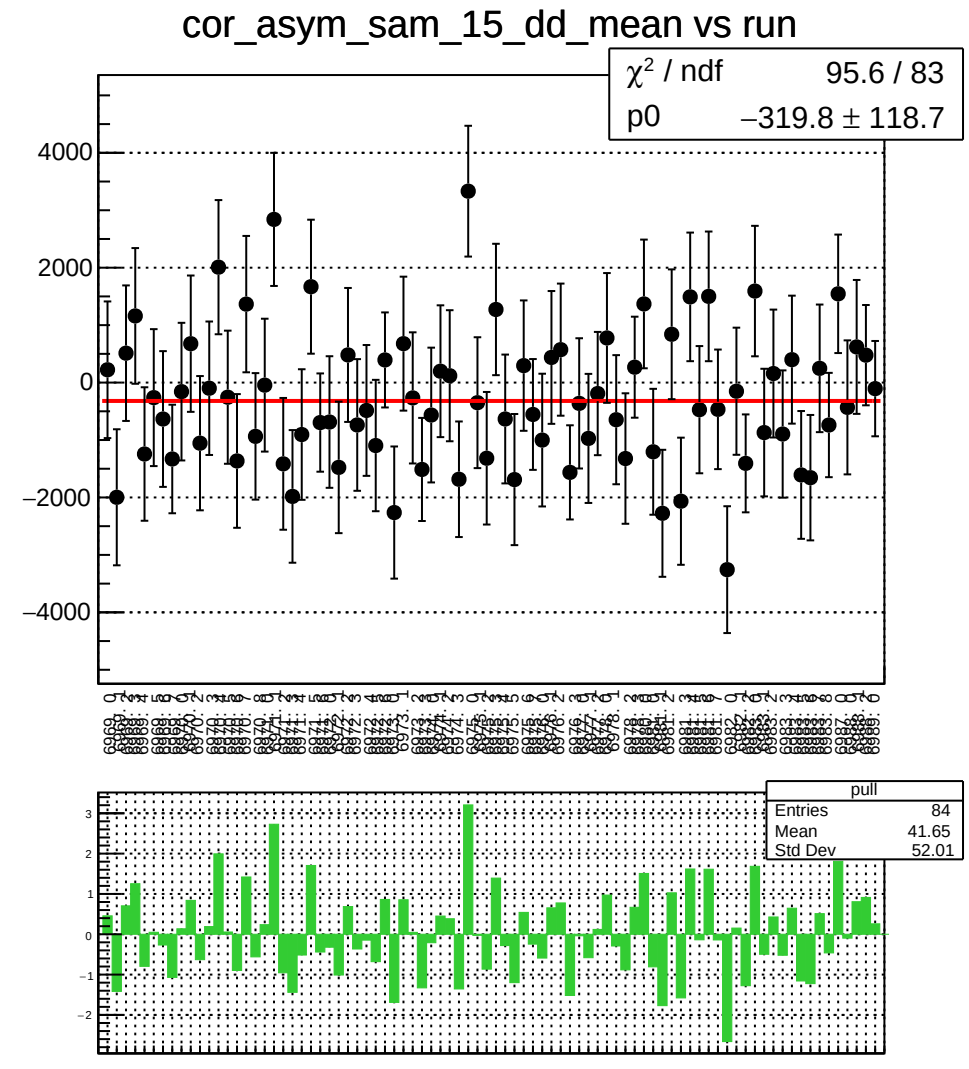

pull1D
Entries 84
Mean 0.01725
Std Dev 1.067
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

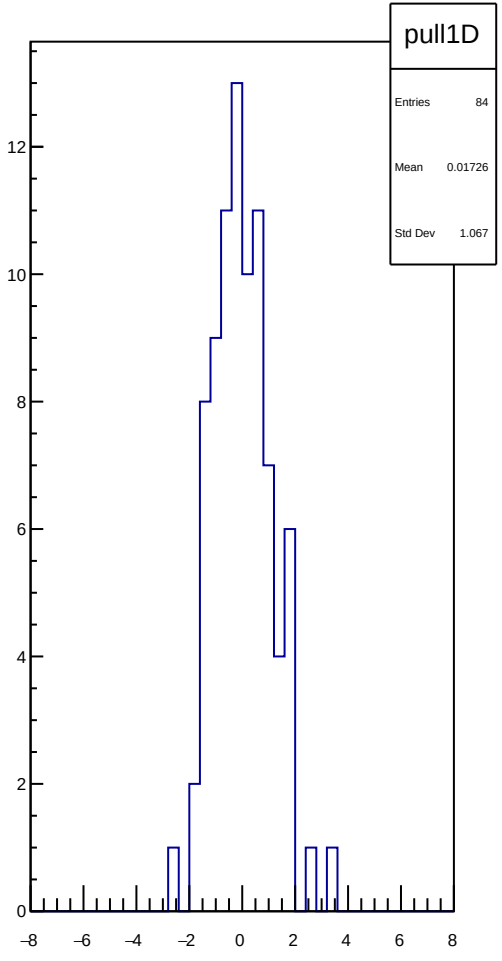

reg_asym_sam_15_dd_rms vs run
χ² / ndf 812.1 / 83
p0 108.6 ± 0.08395
114
112
110
108
106
104
102

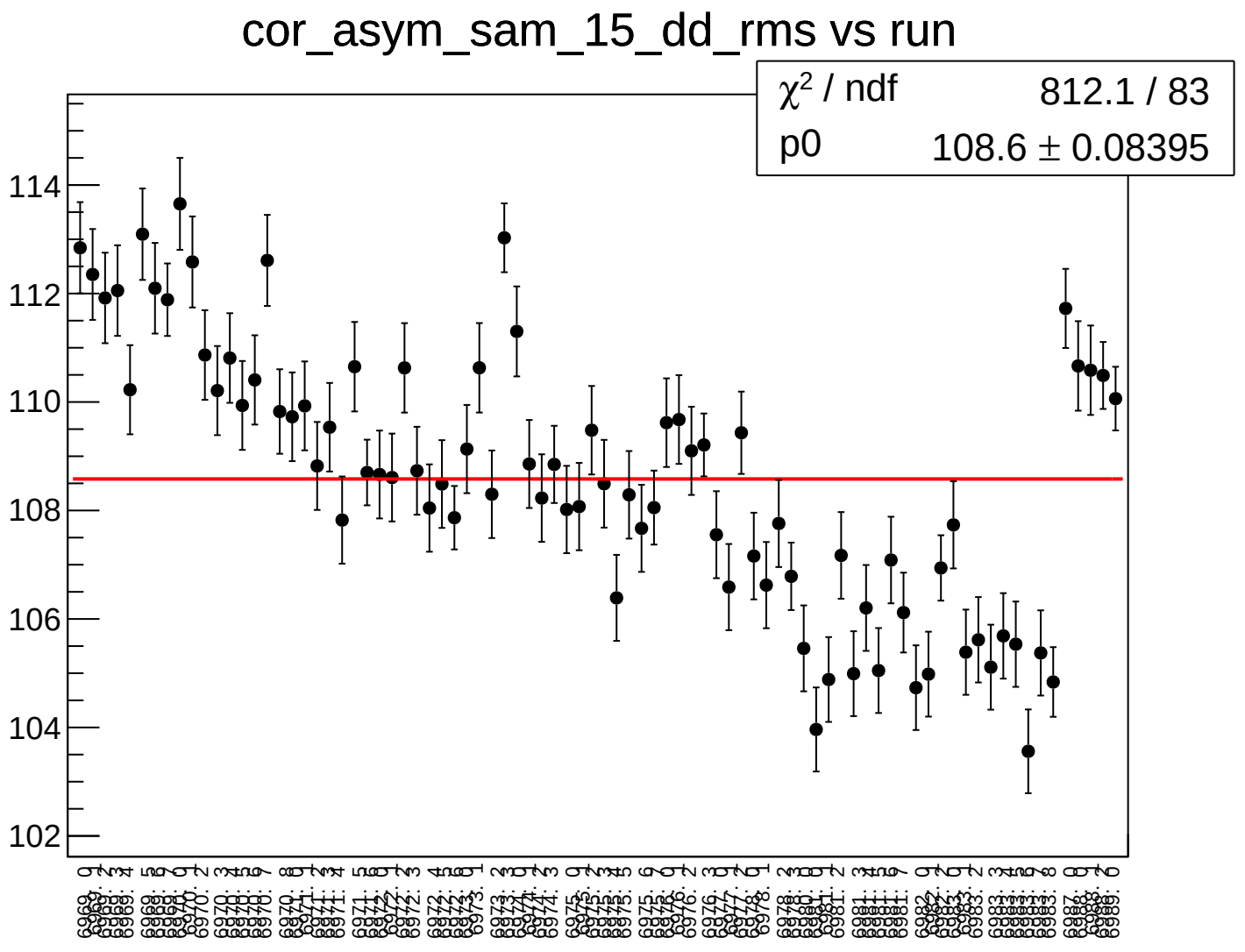

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 101.3 / 83
p0 1759 ± 751.2
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −182.6
Std Dev 0
2
1
0
−1
−2
−3

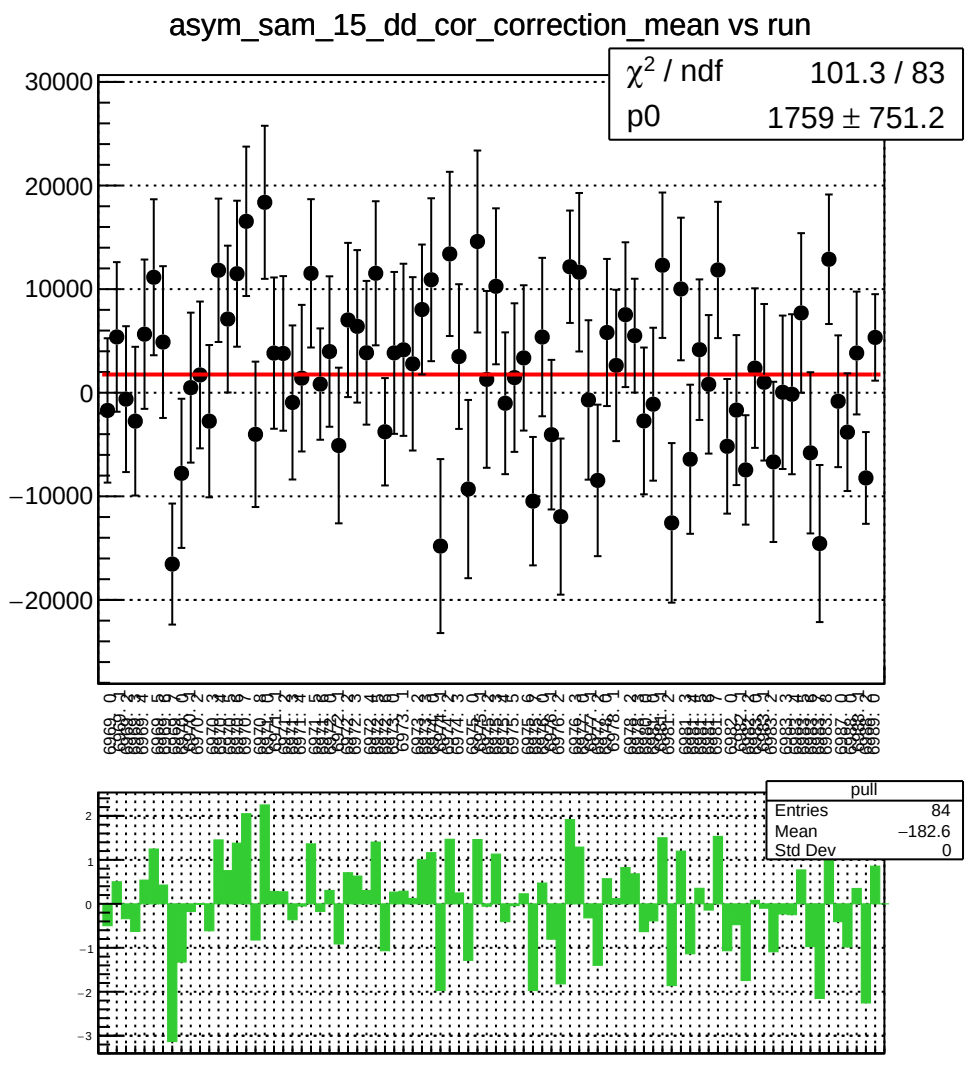

pull1D
Entries 84
Mean 0.018
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

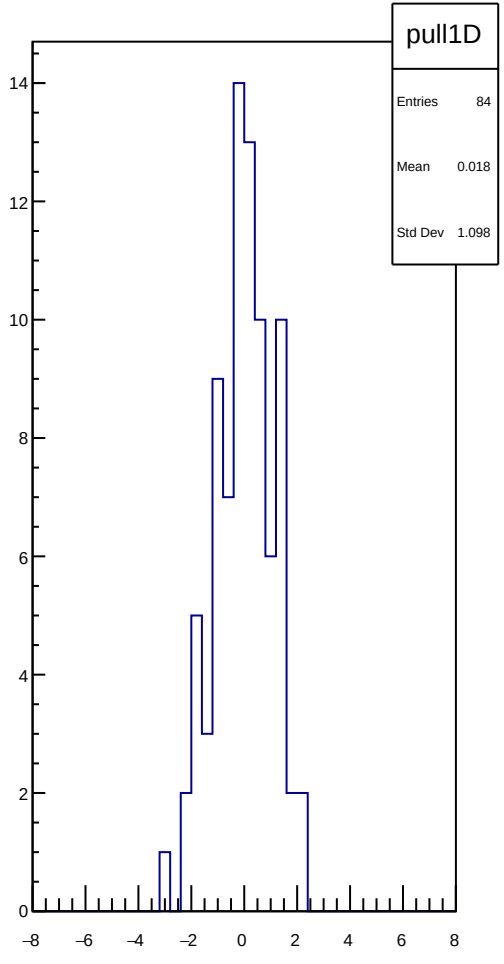

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 1.14e+04 / 83
p0 684.8 ± 0.5311
850
800
750
700
650
600
550

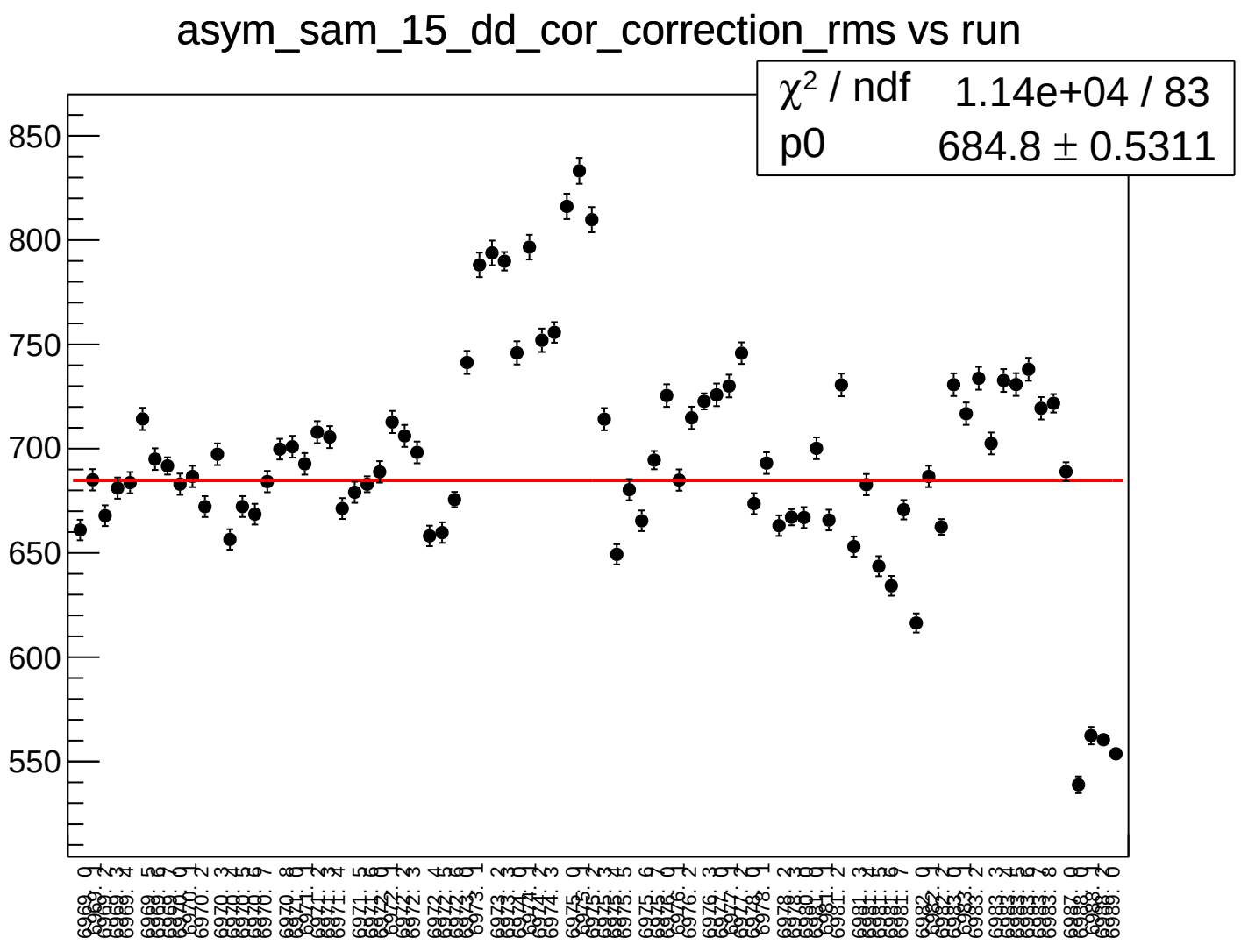

cor_asym_sam_15_dd_mean vs run
χ² / ndf 95.6 / 83
p0 −319.8 ± 118.7
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 41.65
Std Dev 52.01
3
2
1
0
−1
−2

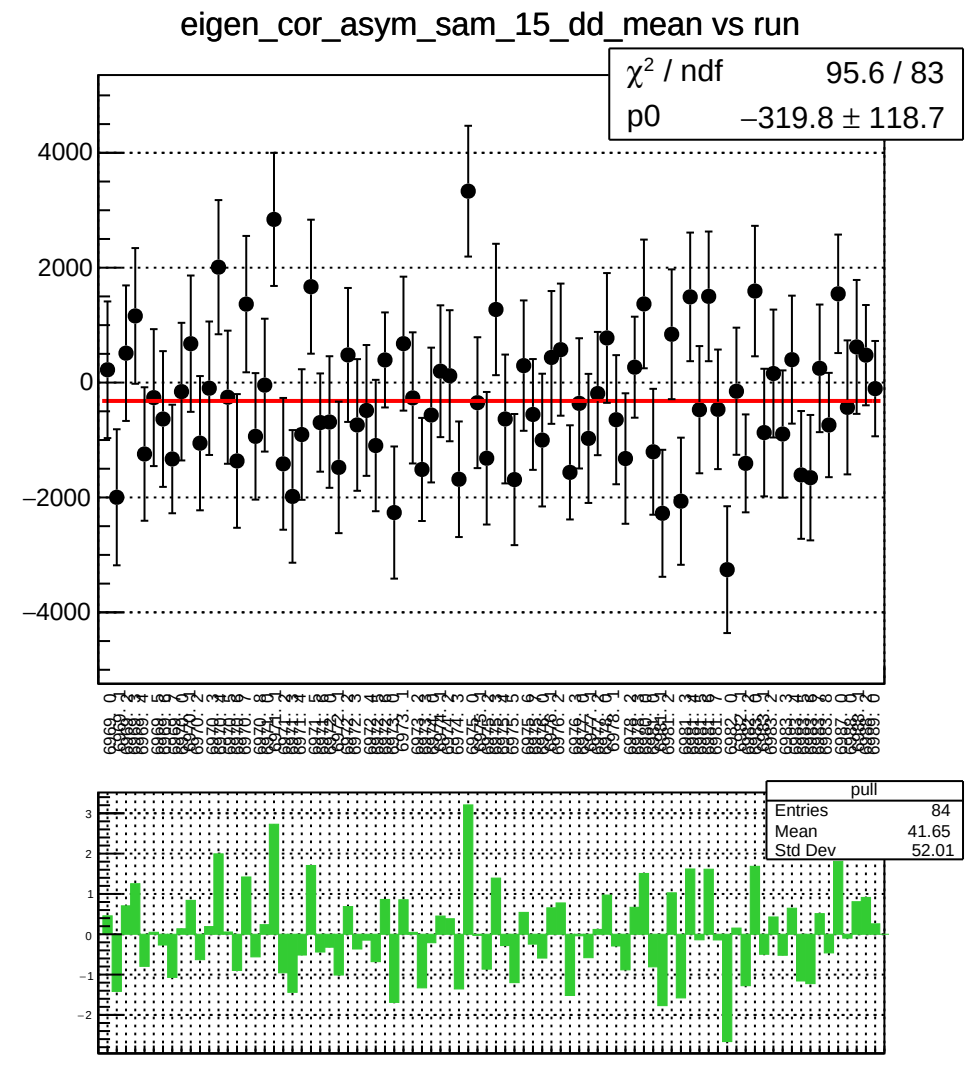

pull1D
Entries 84
Mean 0.01726
Std Dev 1.067
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

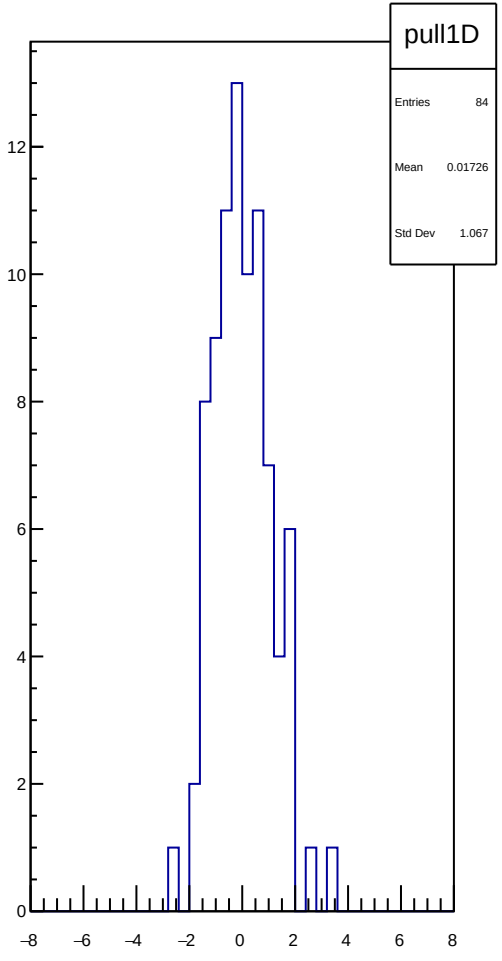

cor_asym_sam_15_dd_rms vs run
χ² / ndf 812.1 / 83
p0 108.6 ± 0.08395
114
112
110
108
106
104
102

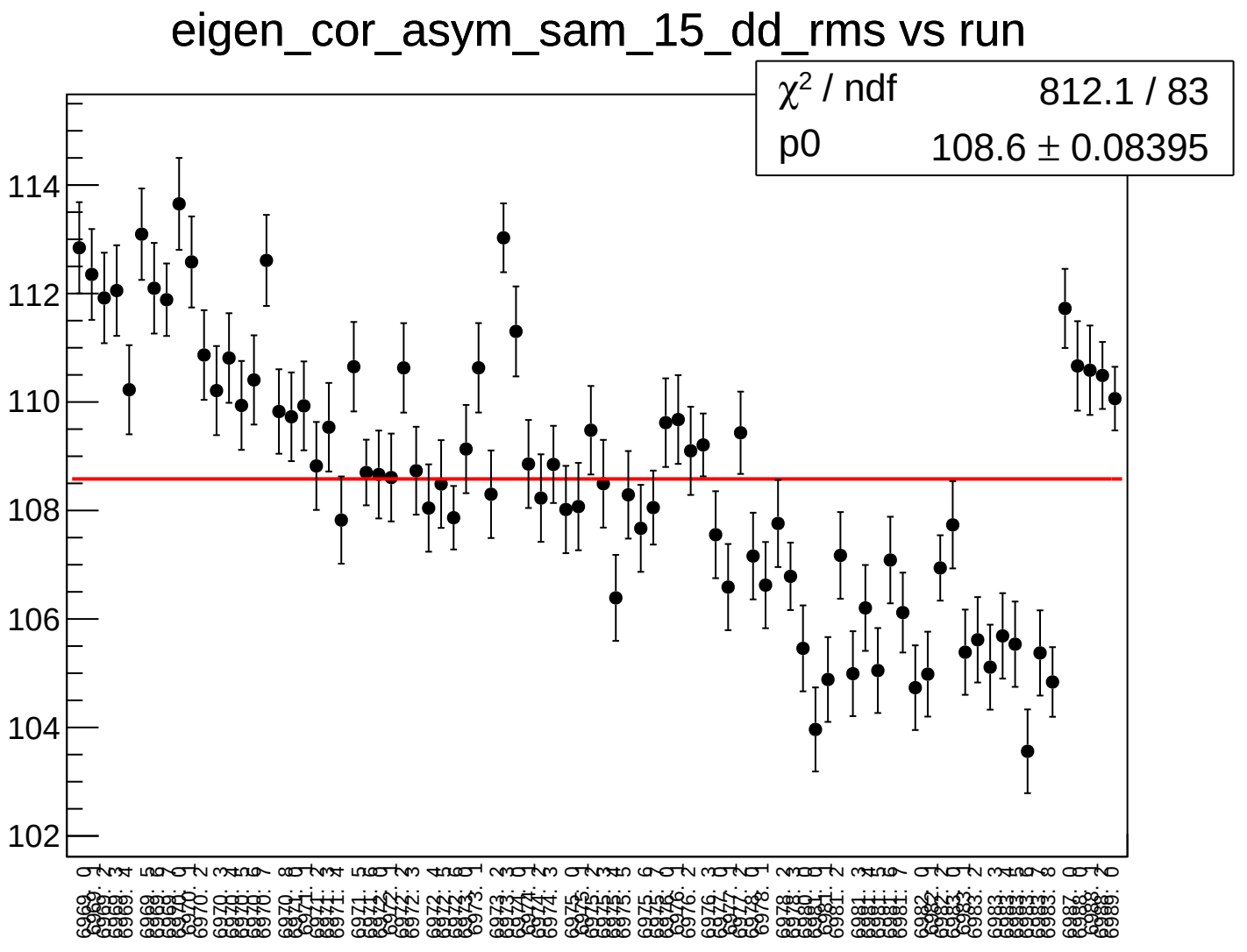

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 101.3 / 83
p0 1759 ± 751.2
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −182.6
Std Dev 0
2
1
0
−1
−2
−3

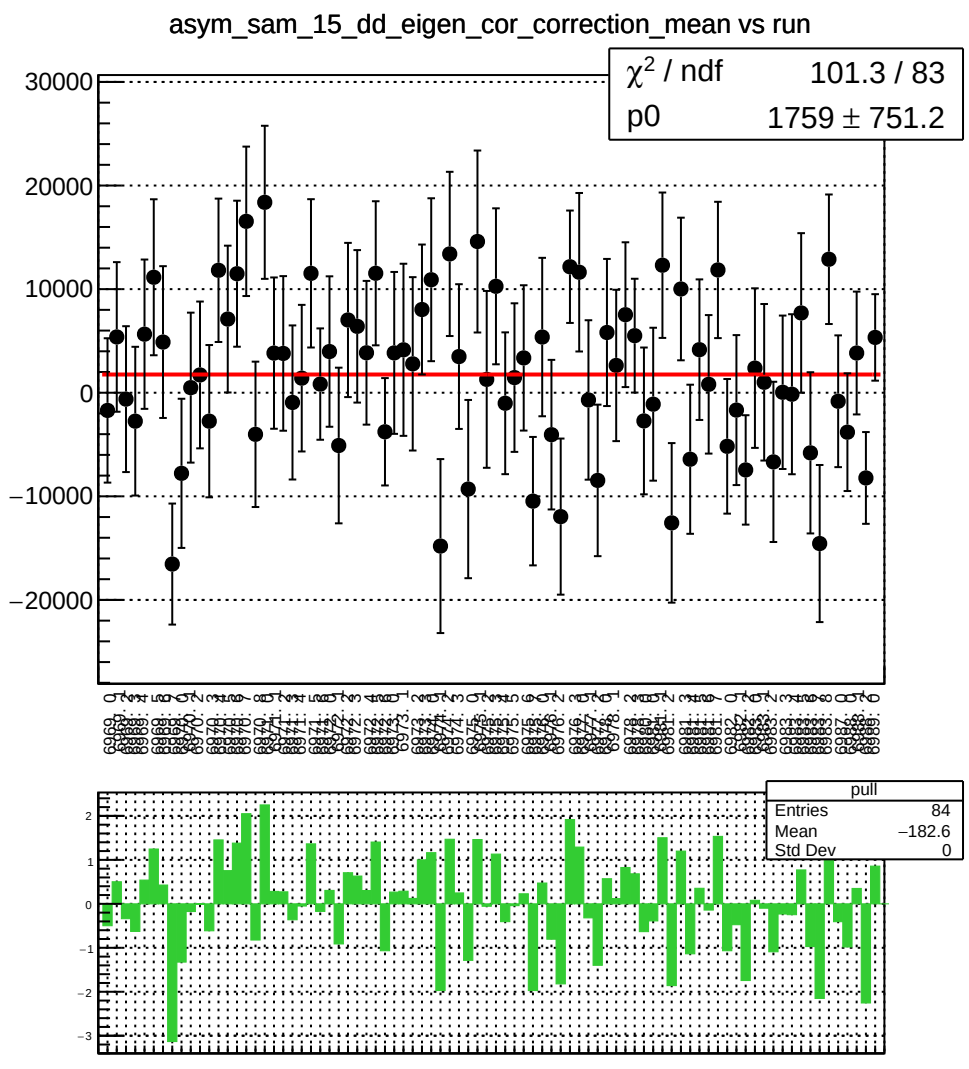

pull1D
Entries 84
Mean 0.018
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

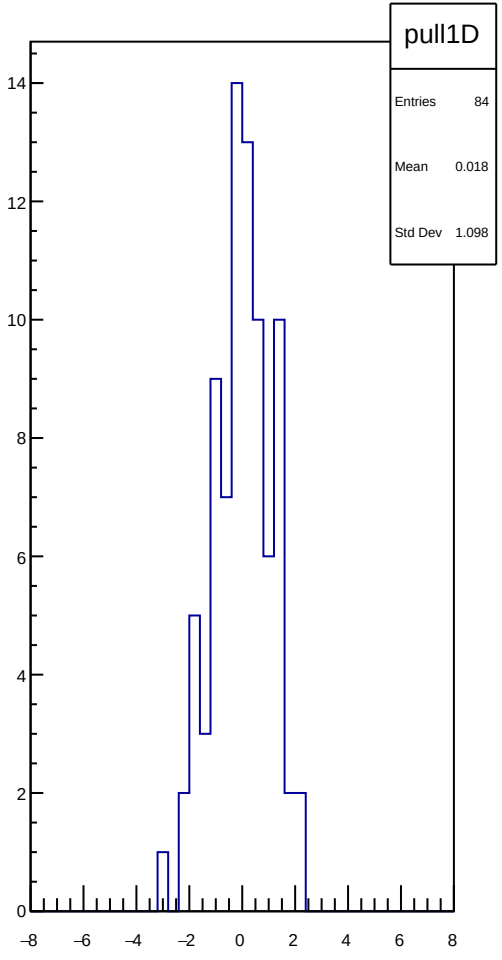

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1.14e+04 / 83
p0 684.8 ± 0.5311
850
800
750
700
650
600
550

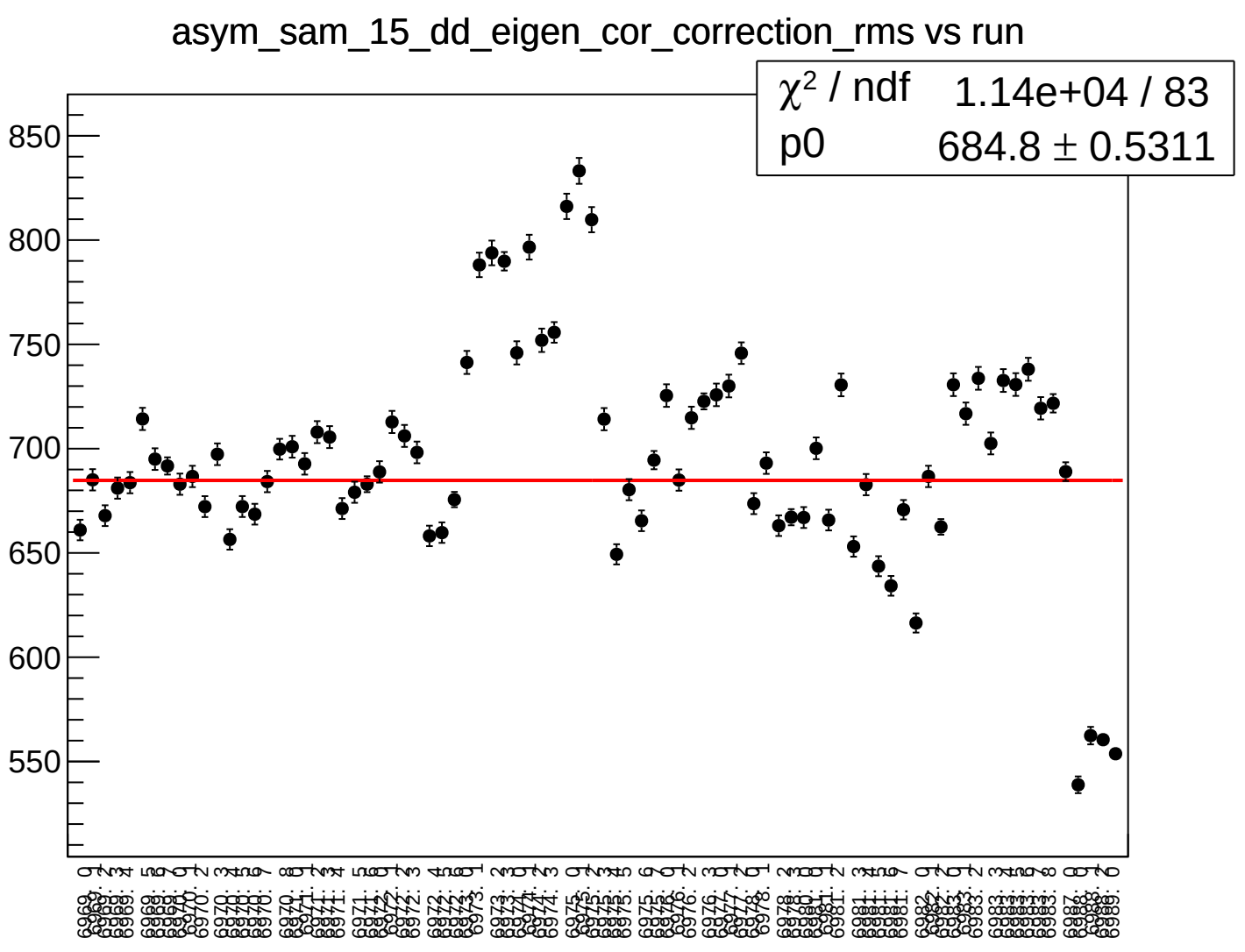

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 95.6 / 83
p0 −319.8 ± 118.7
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 41.65
Std Dev 52.01
3
2
1
0
−1
−2

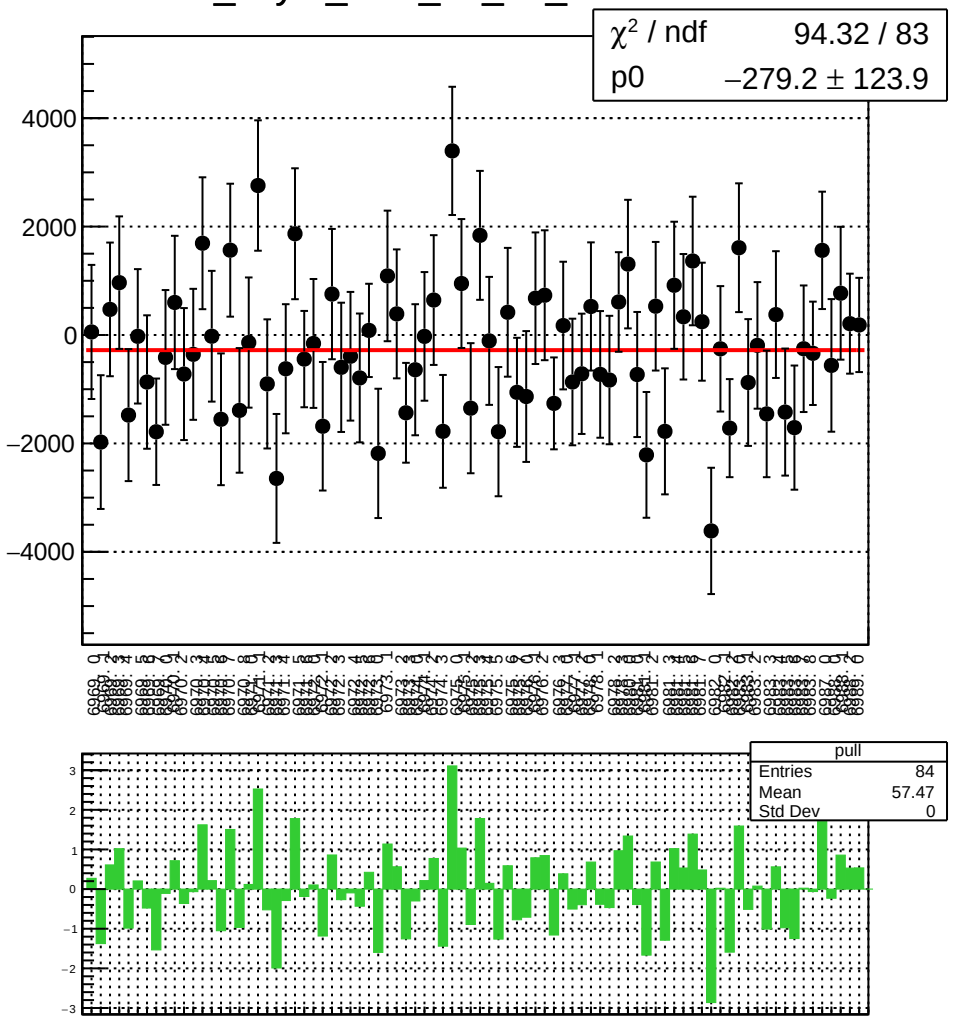

pull1D
Entries 84
Mean 0.01726
Std Dev 1.067
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

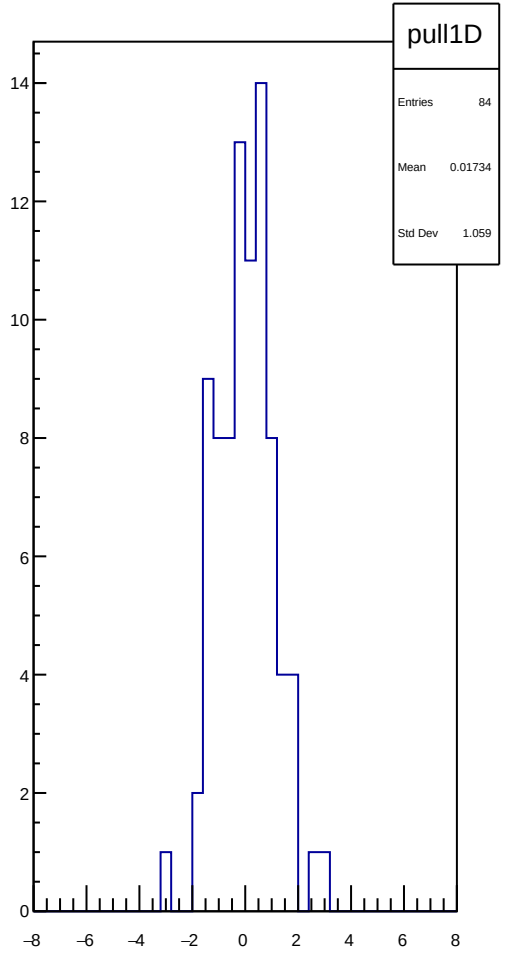

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 812.1 / 83
p0 108.6 ± 0.08395
114
112
110
108
106
104
102

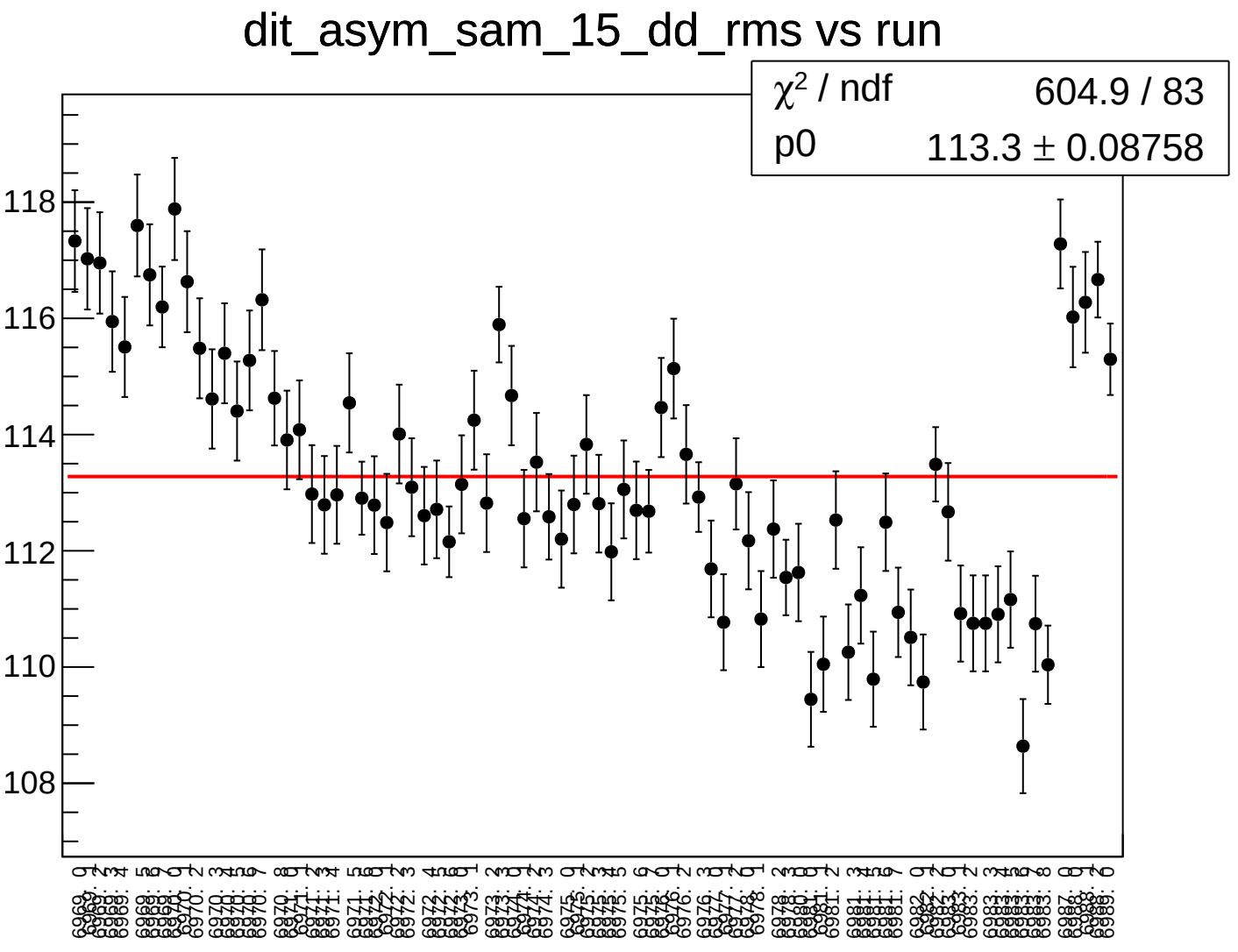

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.3 / 83
p0 1759 ± 751.2
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −182.6
Std Dev 0
2
1
0
−1
−2
−3

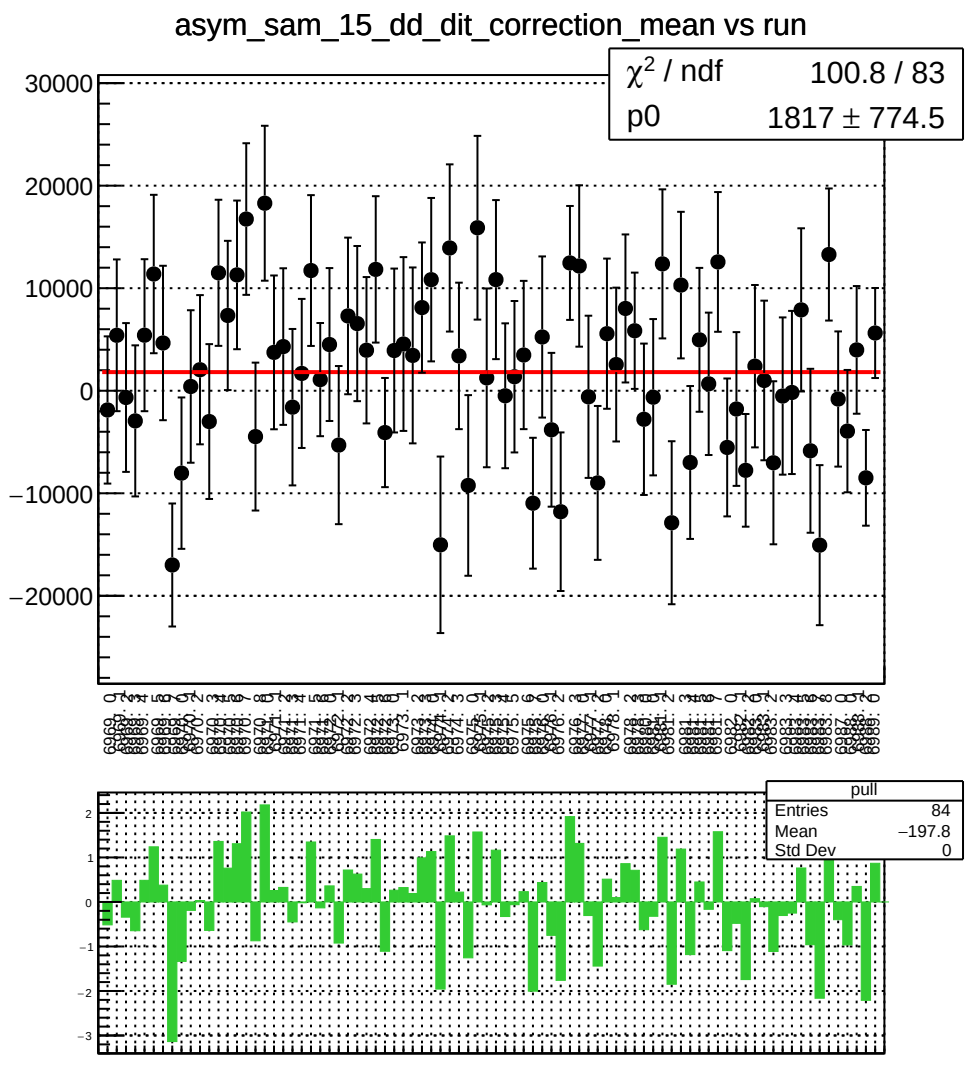

pull1D
Entries 84
Mean 0.018
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

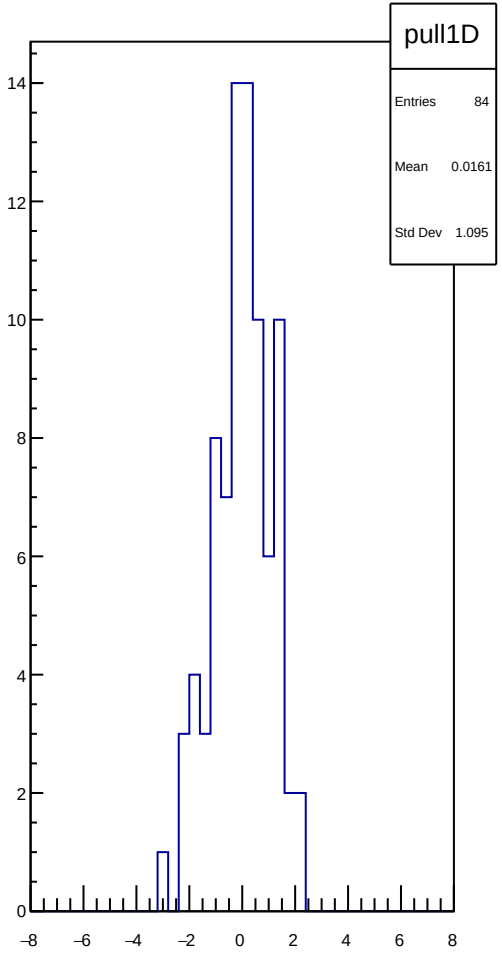

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.14e+04 / 83
p0 684.8 ± 0.5311
850
800
750
700
650
600
550

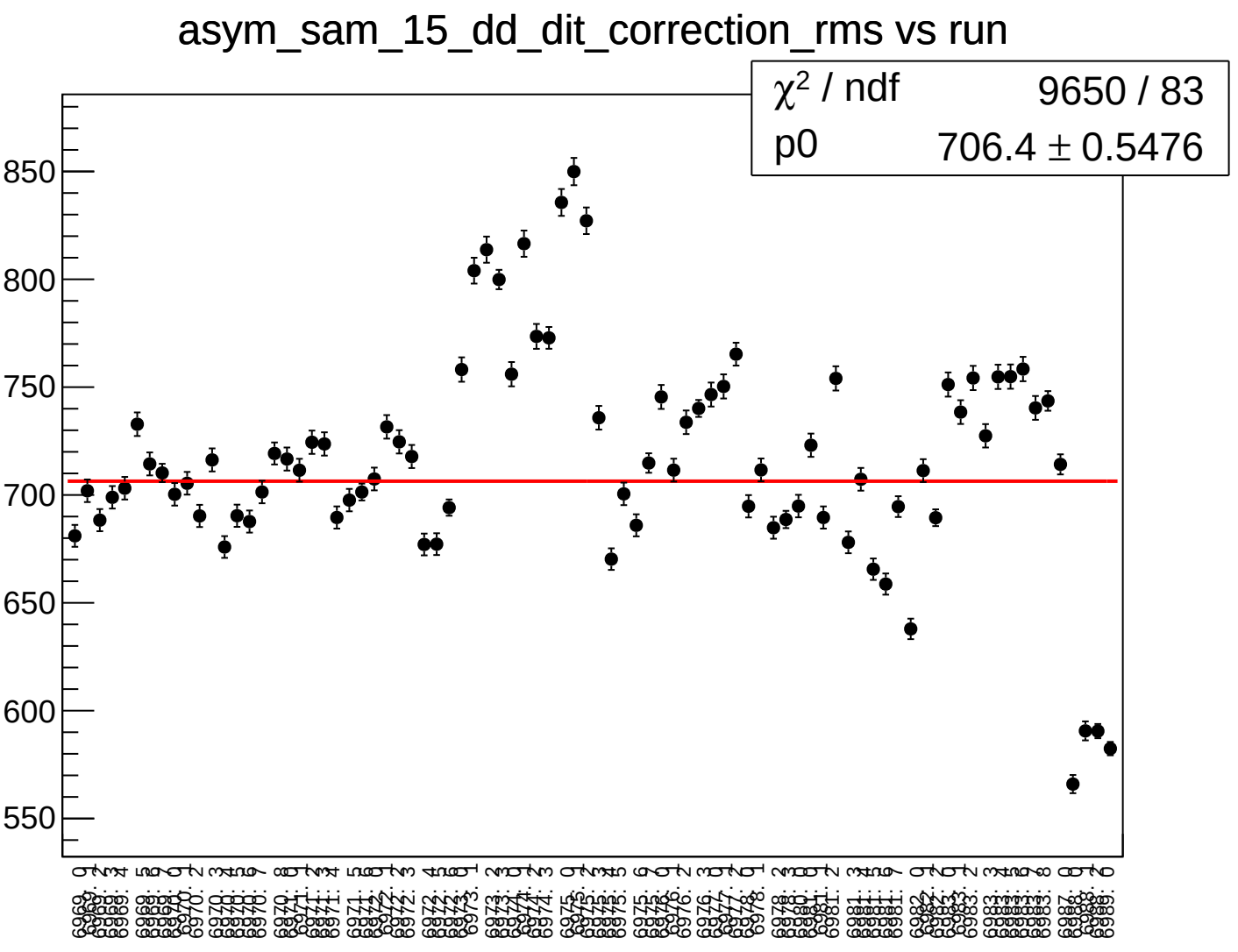

dit_asym_sam_15_dd_mean vs run
χ² / ndf 94.32 / 83
p0 −279.2 ± 123.9
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 57.47
Std Dev 0
3
2
1
0
−1
−2
−3

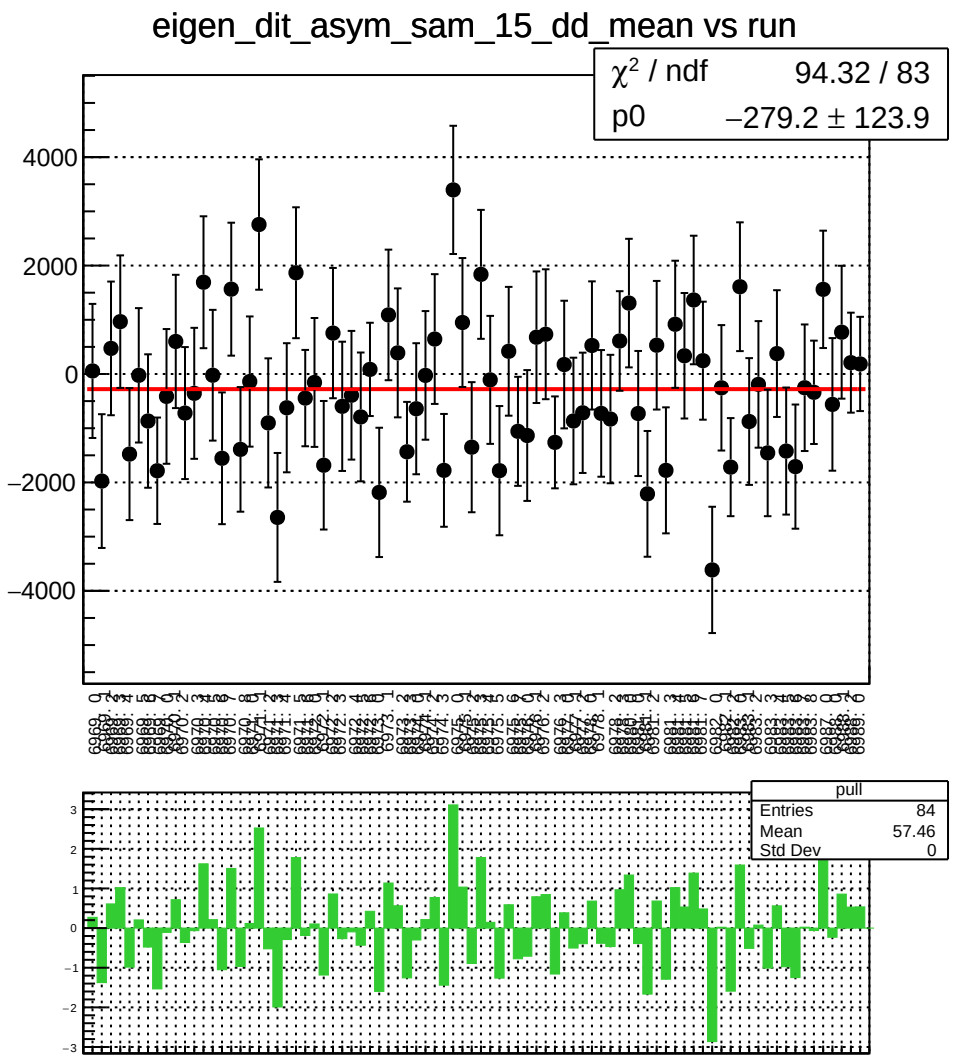

pull1D
Entries 84
Mean 0.01734
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

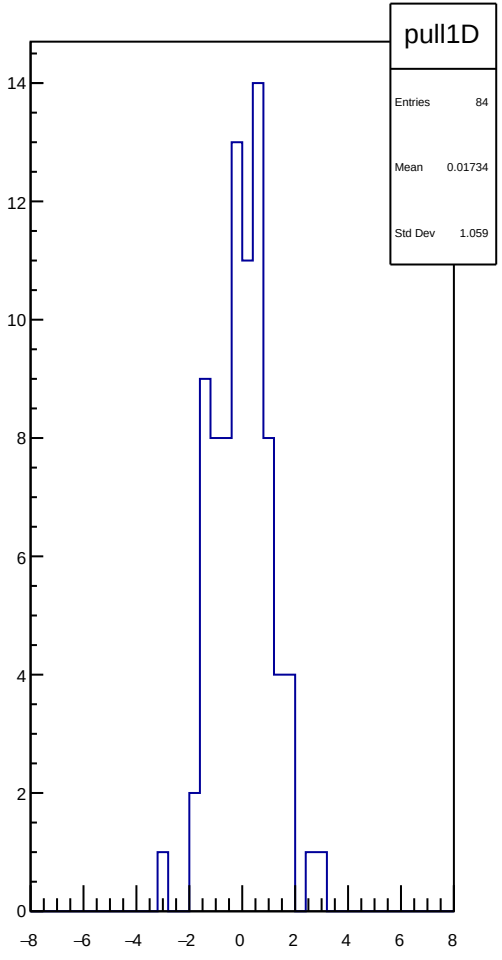

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 604.9 / 83
p0 113.3 ± 0.08758
118
116
114
112
110
108

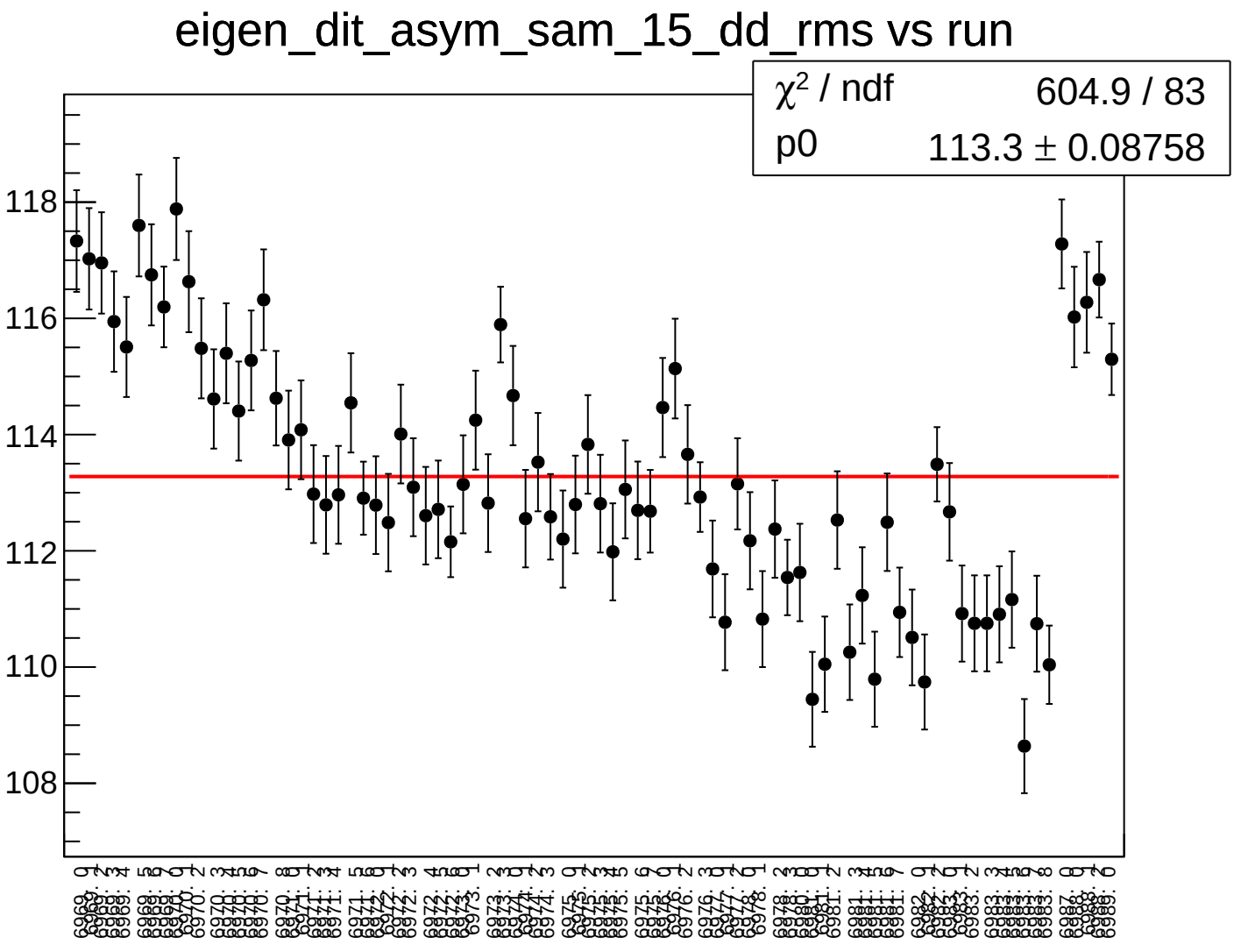

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 100.8 / 83
p0 1817 ± 774.5
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −197.8
Std Dev 0
2
1
0
−1
−2
−3

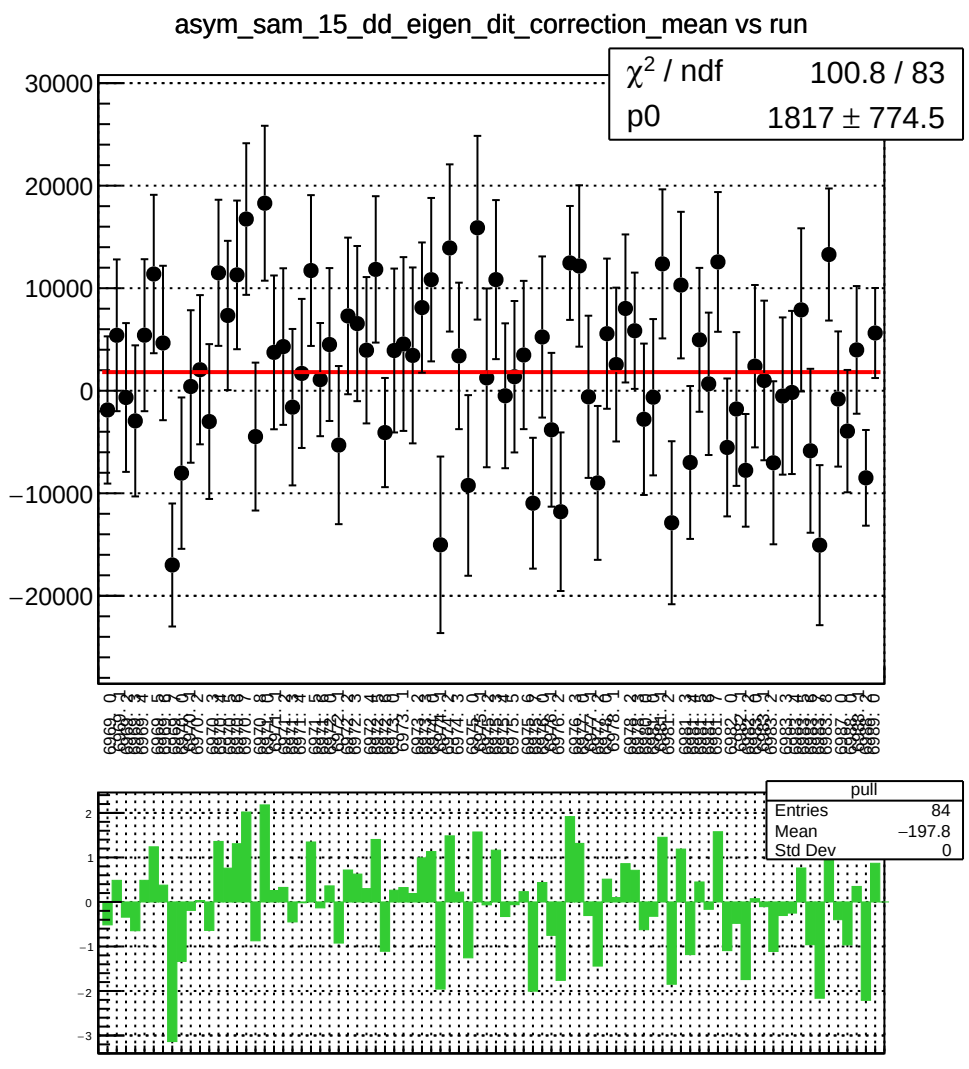

pull1D
Entries 84
Mean 0.0161
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

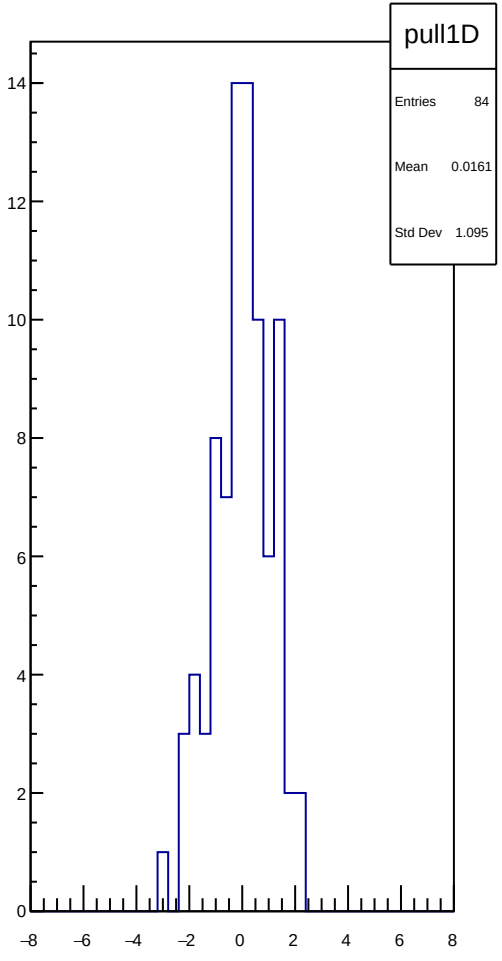

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 9650 / 83
p0 706.4 ± 0.5476
850
800
750
700
650
600
550

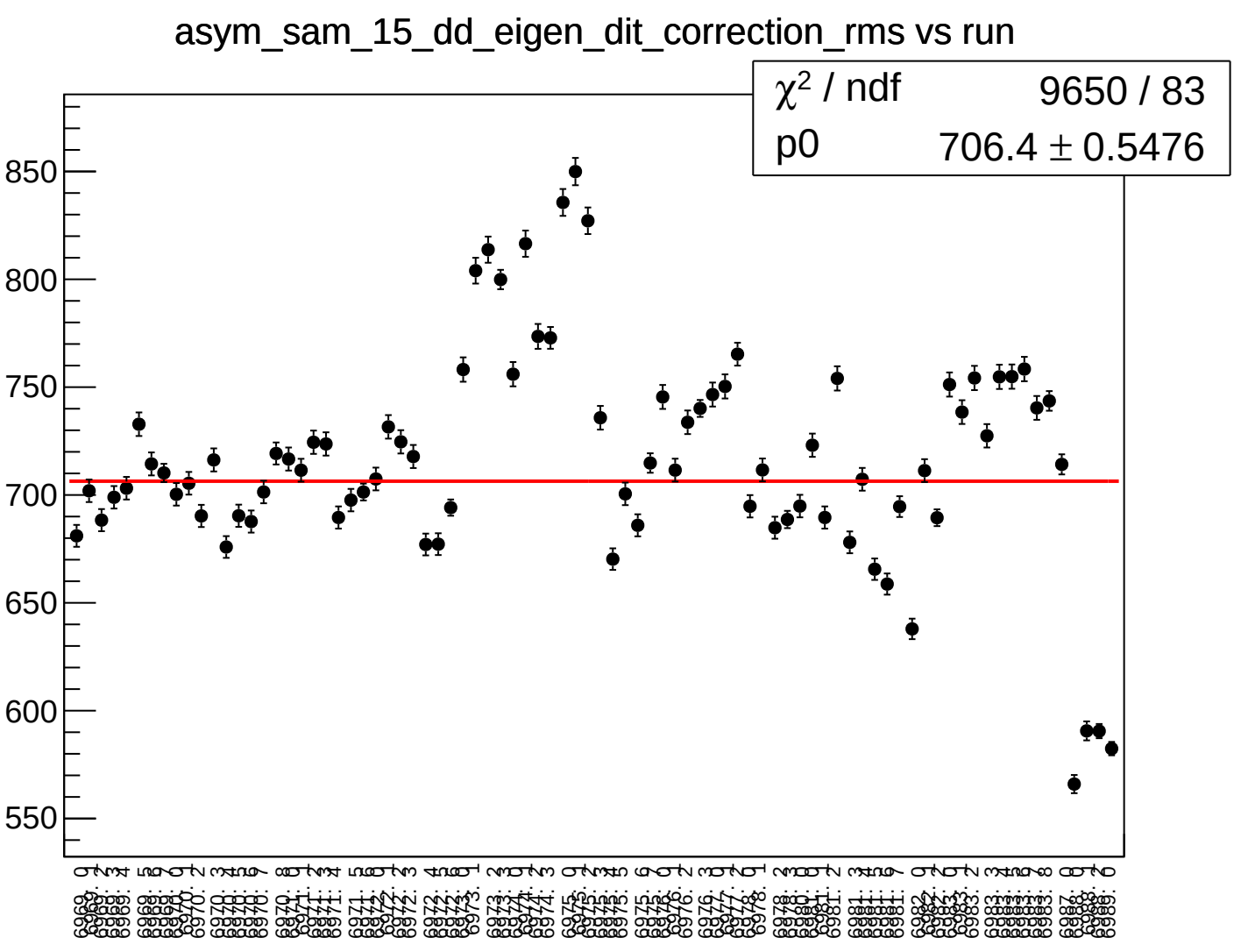

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 94.32 / 83
p0 −279.2 ± 123.9
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 57.46
Std Dev 0
3
2
1
0
−1
−2
−3

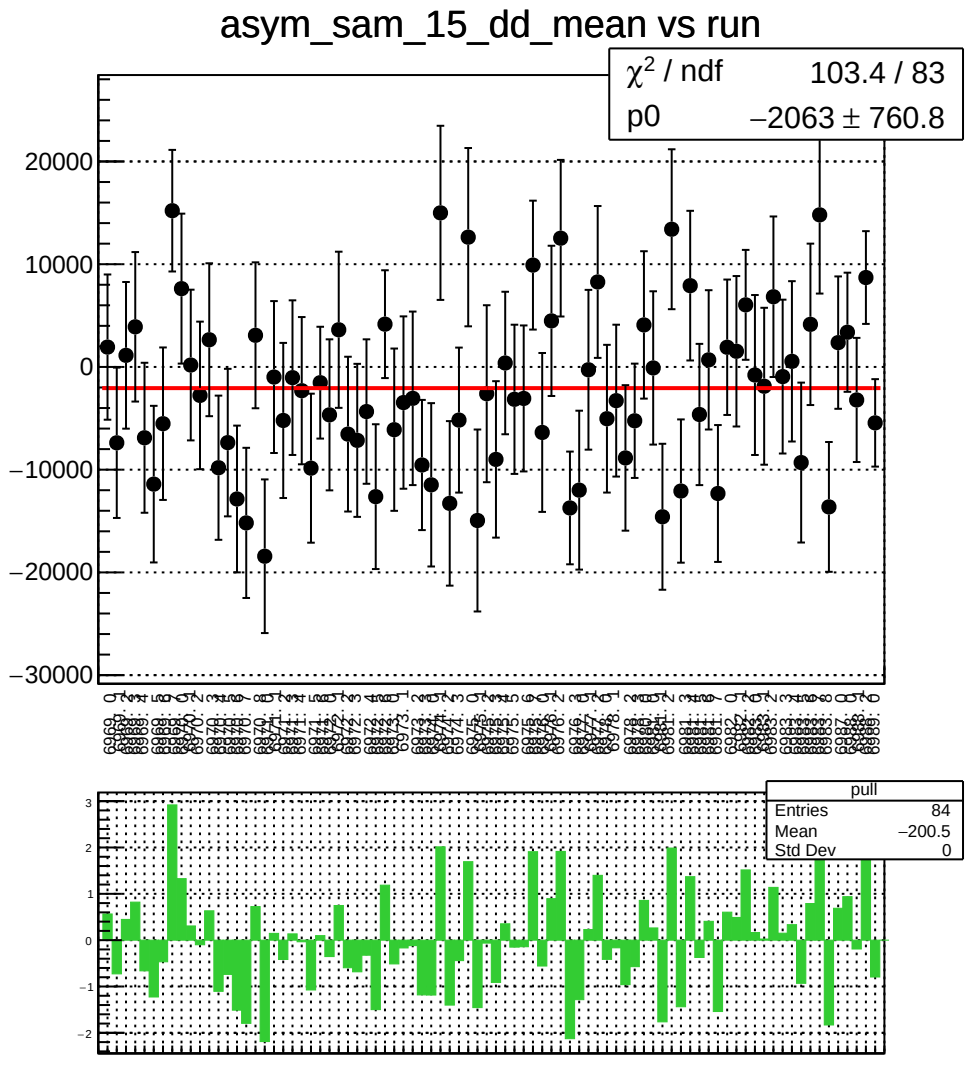

pull1D
Entries 84
Mean 0.01734
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

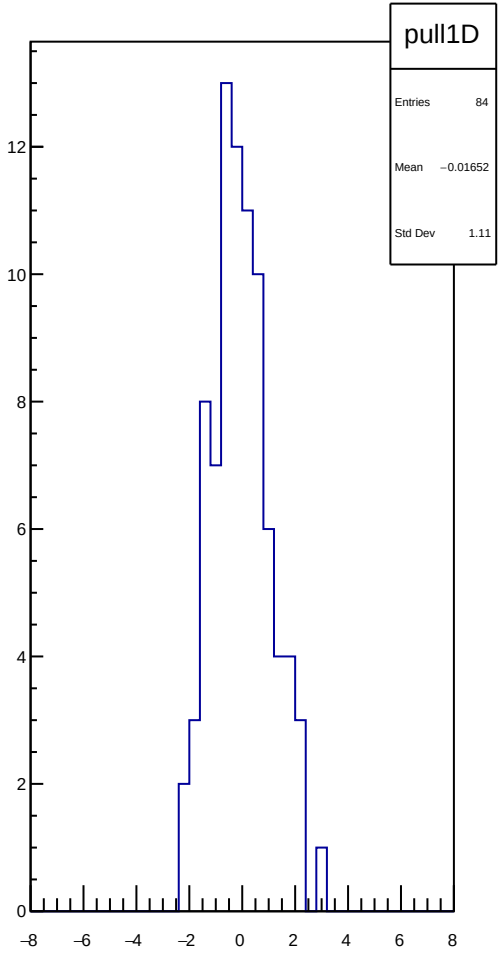

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 604.9 / 83
p0 113.3 ± 0.08758
118
116
114
112
110
108

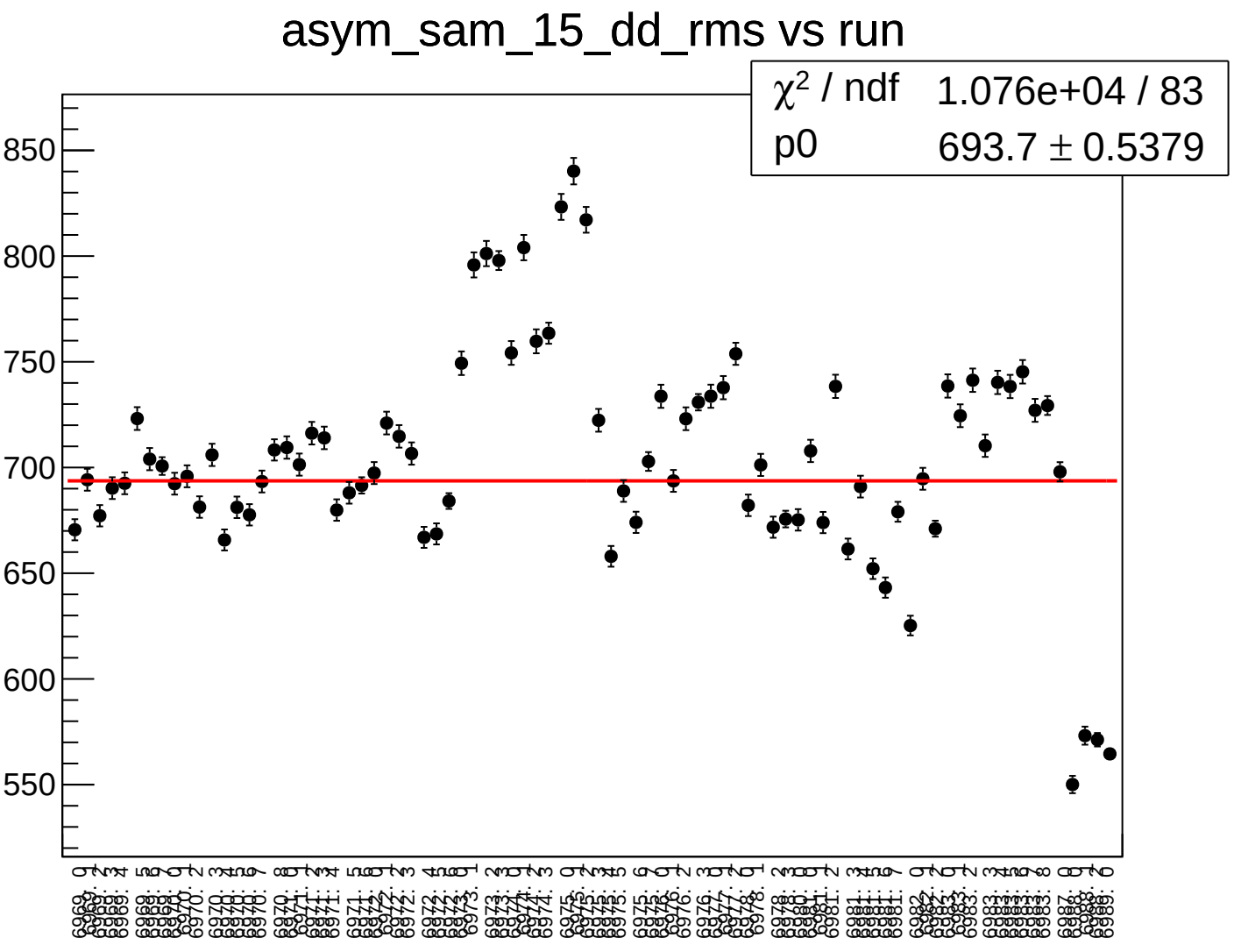

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.8 / 83
p0 1817 ± 774.5
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −197.8
Std Dev 0
2
1
0
−1
−2
−3

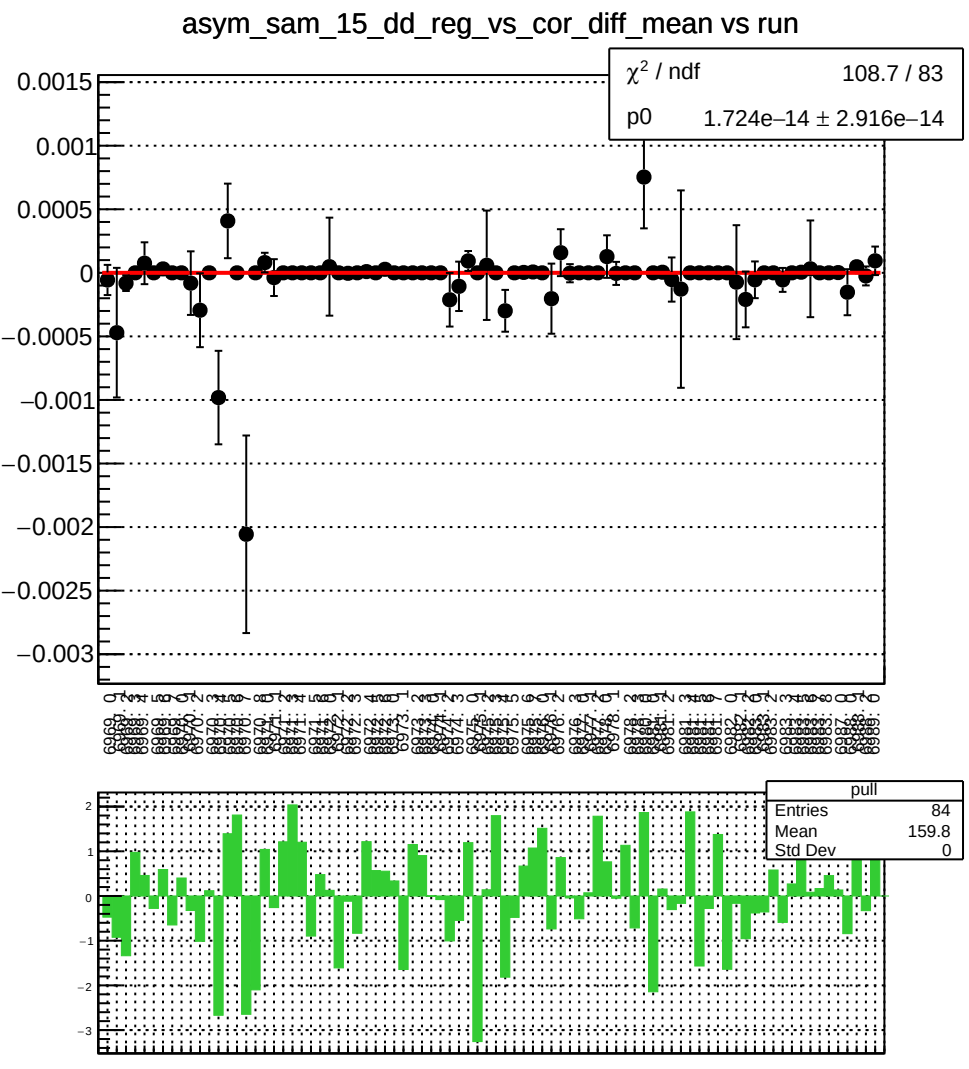

pull1D
Entries 84
Mean 0.0161
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

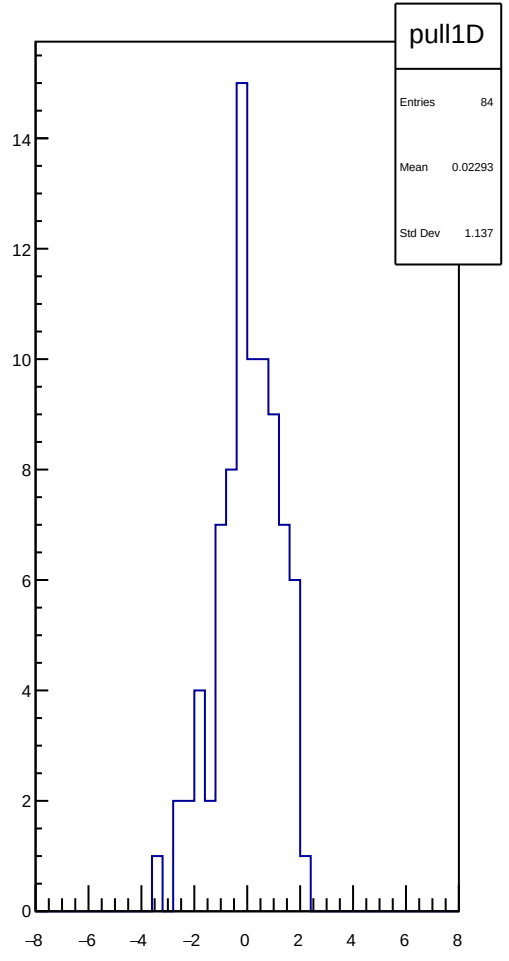

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 9650 / 83
p0 706.4 ± 0.5476
850
800
750
700
650
600
550

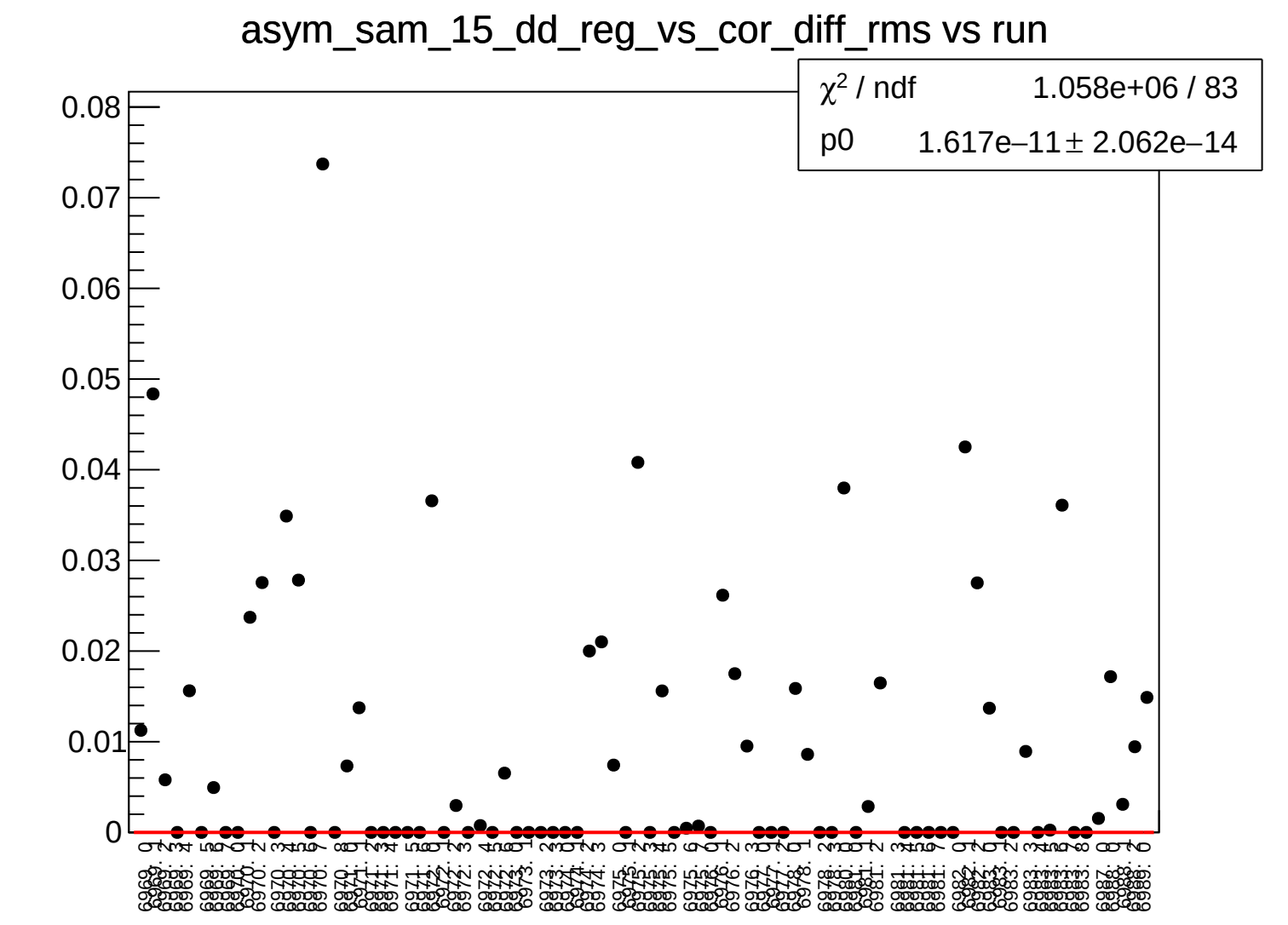

asym_sam_15_dd_mean vs run
χ² / ndf 103.4 / 83
p0 −2063 ± 760.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −200.5
Std Dev 0
3
2
1
0
−1
−2

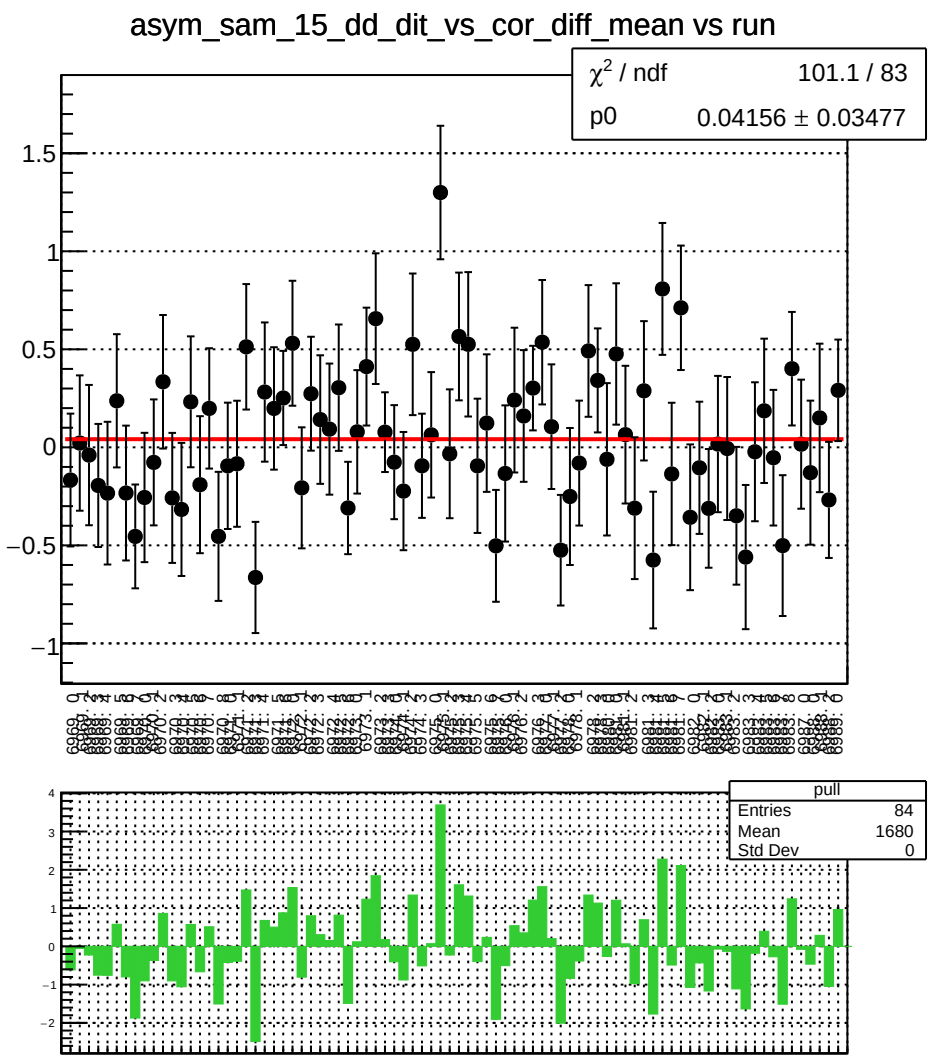

pull1D
Entries 84
Mean −0.01652
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

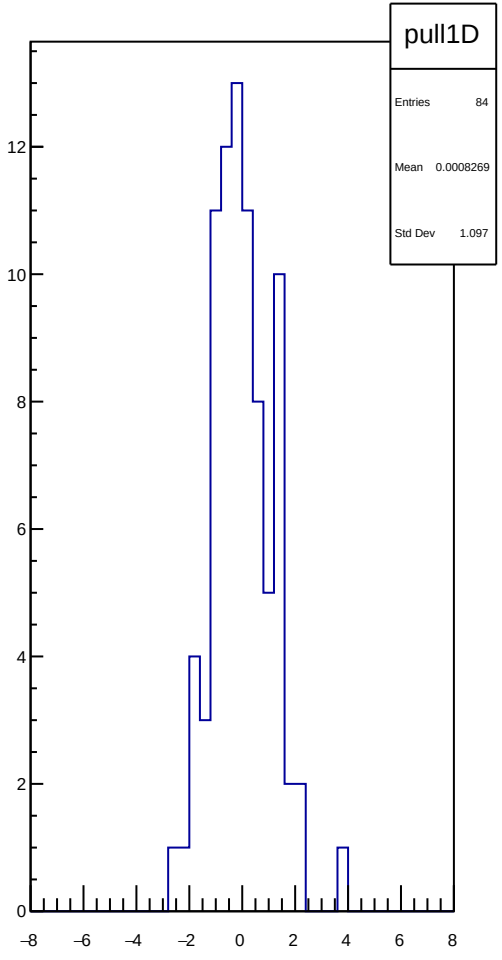

asym_sam_15_dd_rms vs run
χ² / ndf 1.076e+04 / 83
p0 693.7 ± 0.5379
850
800
750
700
650
600
550

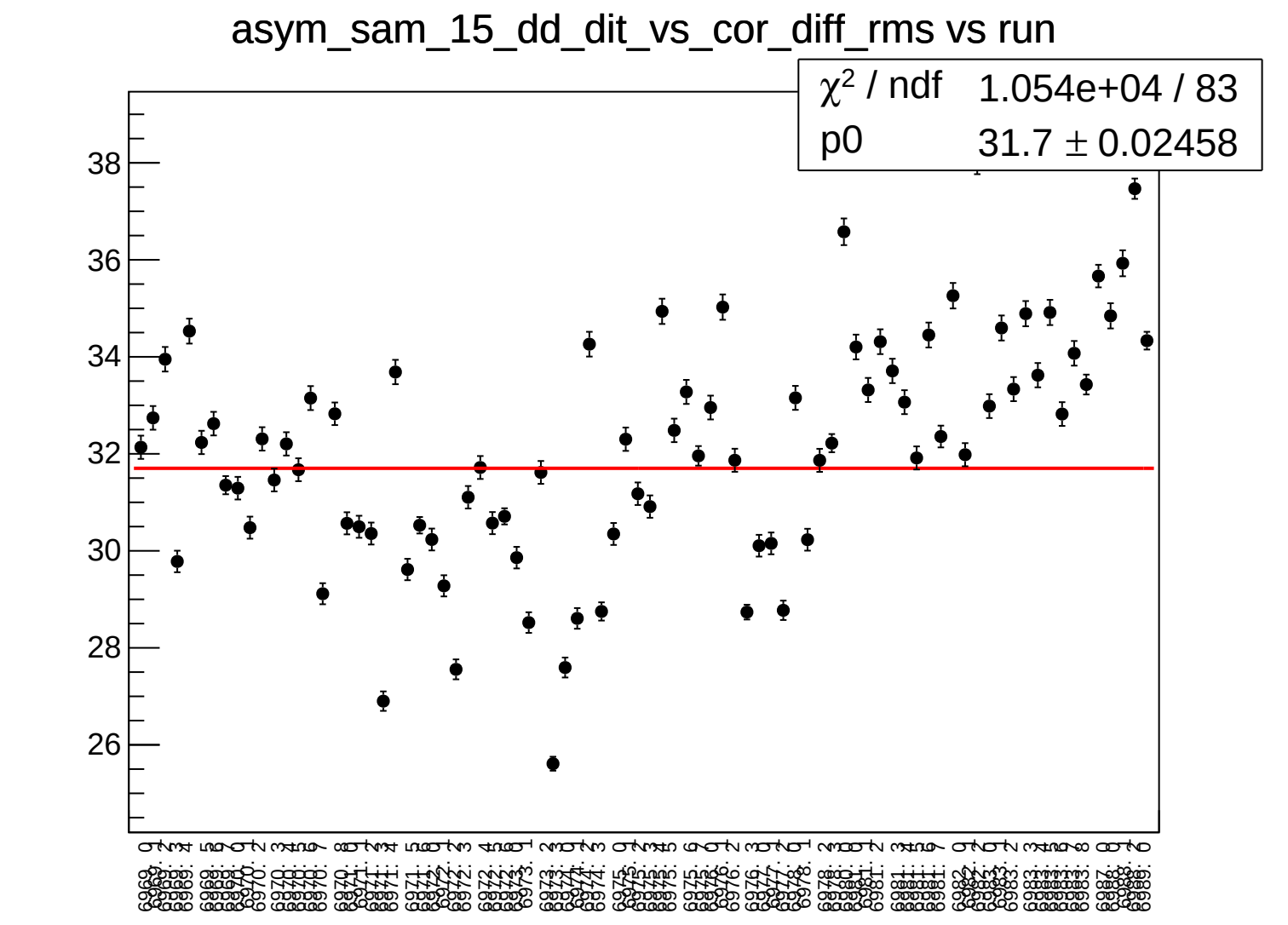

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 83
p0 1.724e−14 ± 2.916e−14
pull
Entries 84
Mean 159.8
Std Dev 0

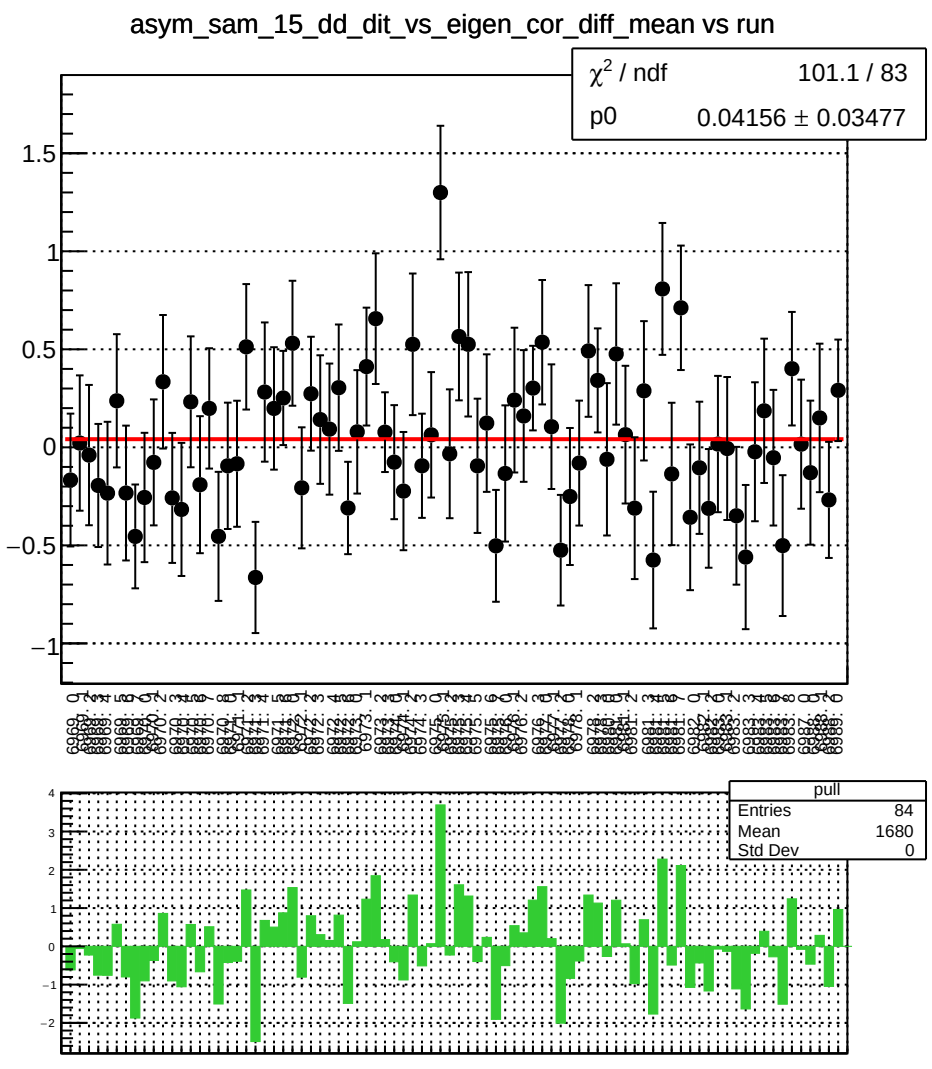

pull1D
Entries 84
Mean 0.02293
Std Dev 1.137

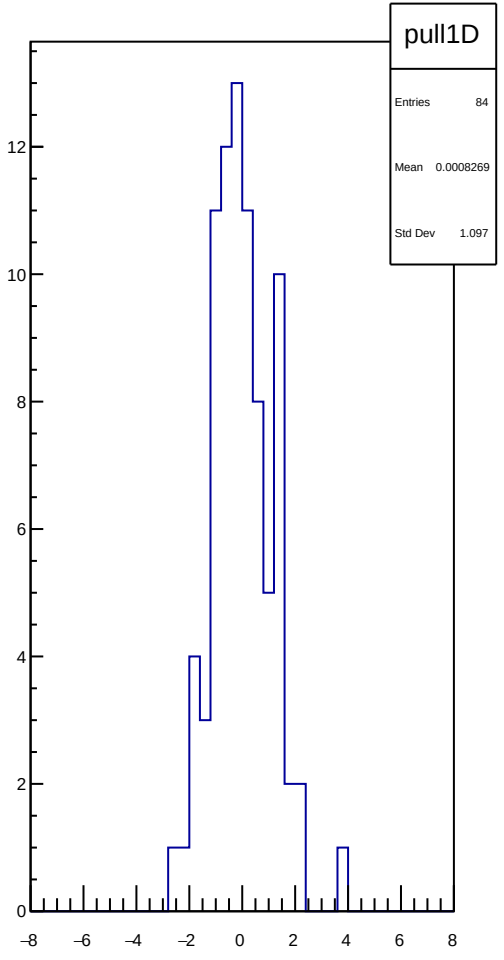

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.058e+06 / 83
p0 1.617e−11 ± 2.062e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

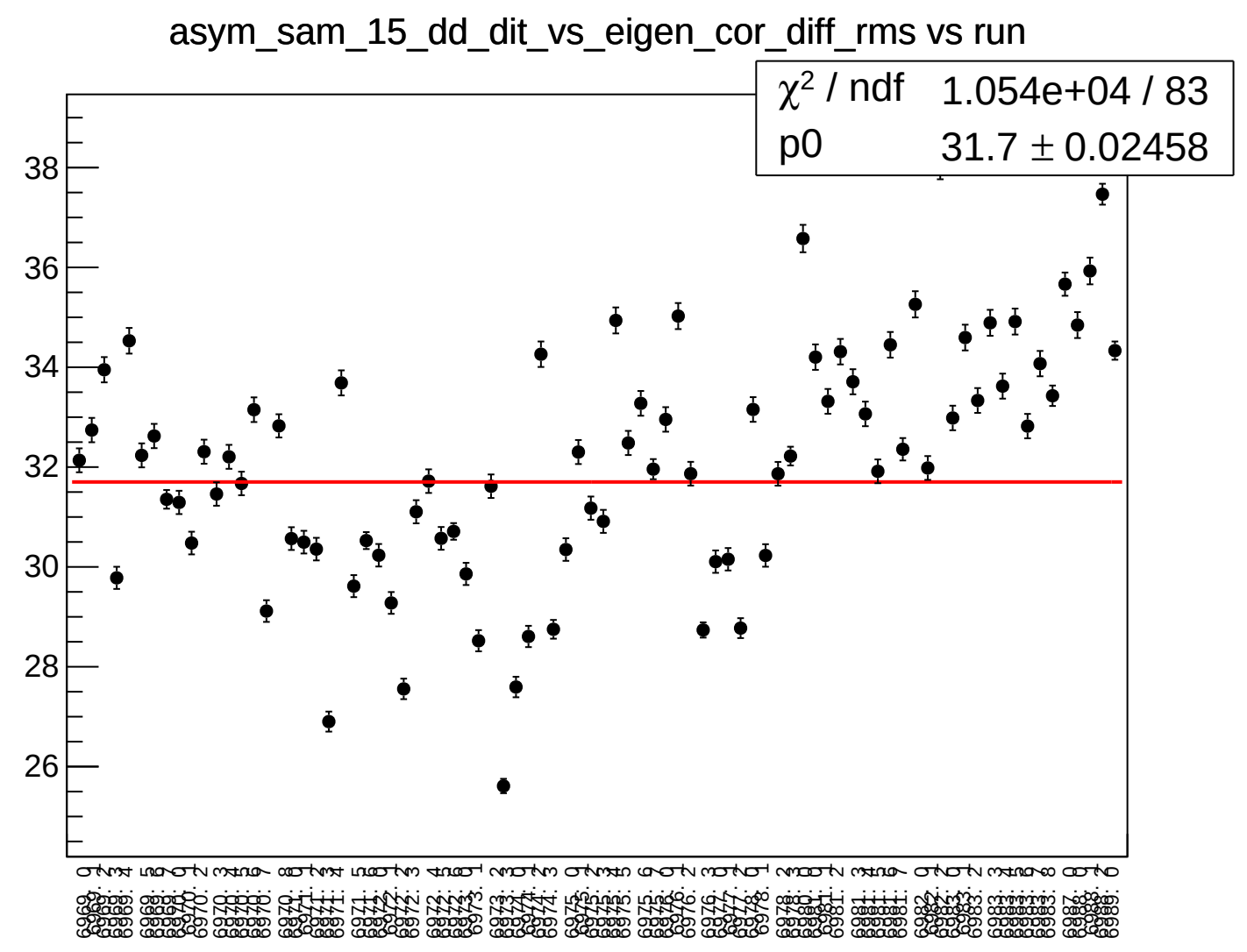

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 83
p0 0.04156 ± 0.03477
pull
Entries 84
Mean 1680
Std Dev 0

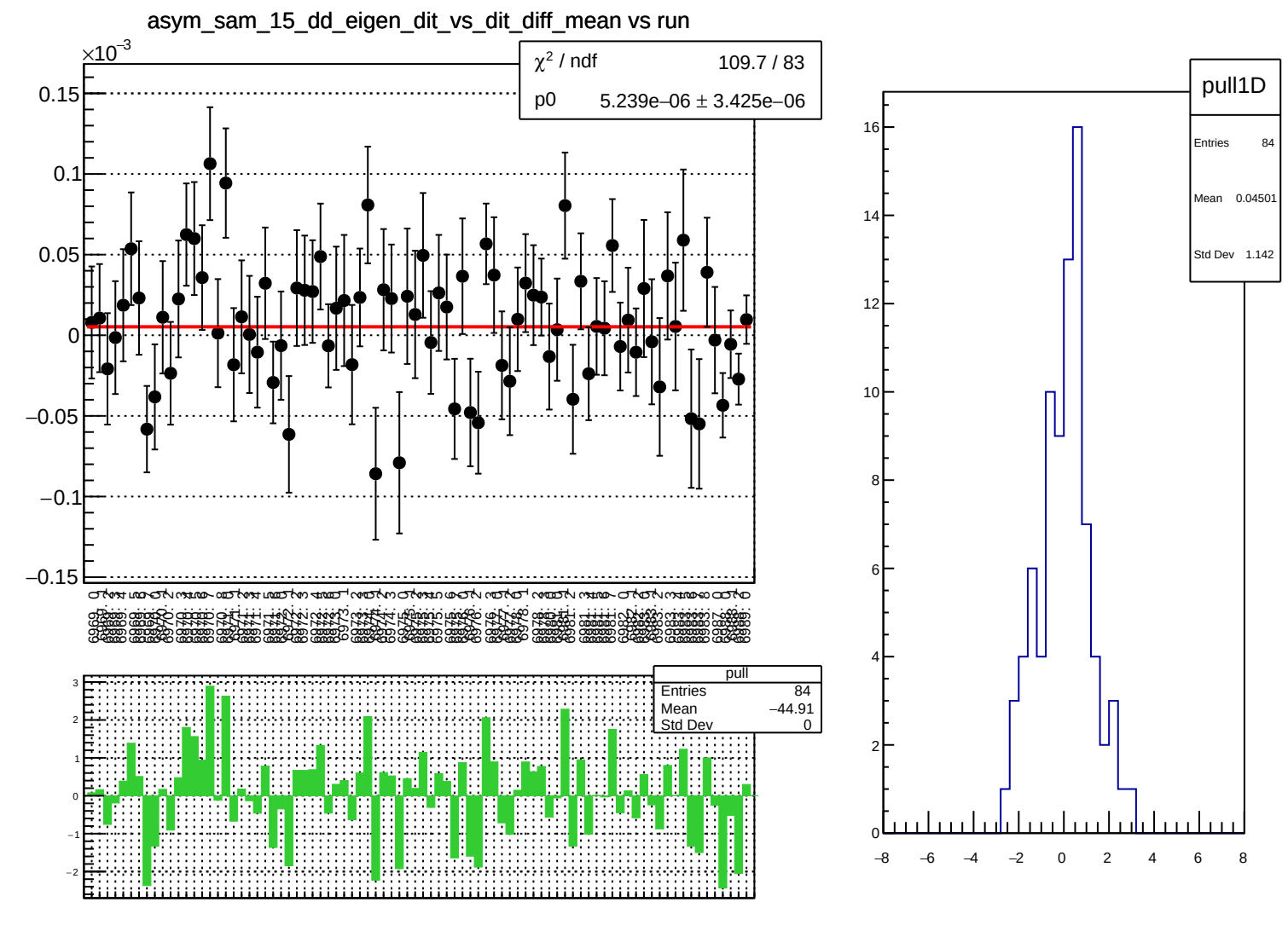

pull1D
Entries 84
Mean 0.0008269
Std Dev 1.097

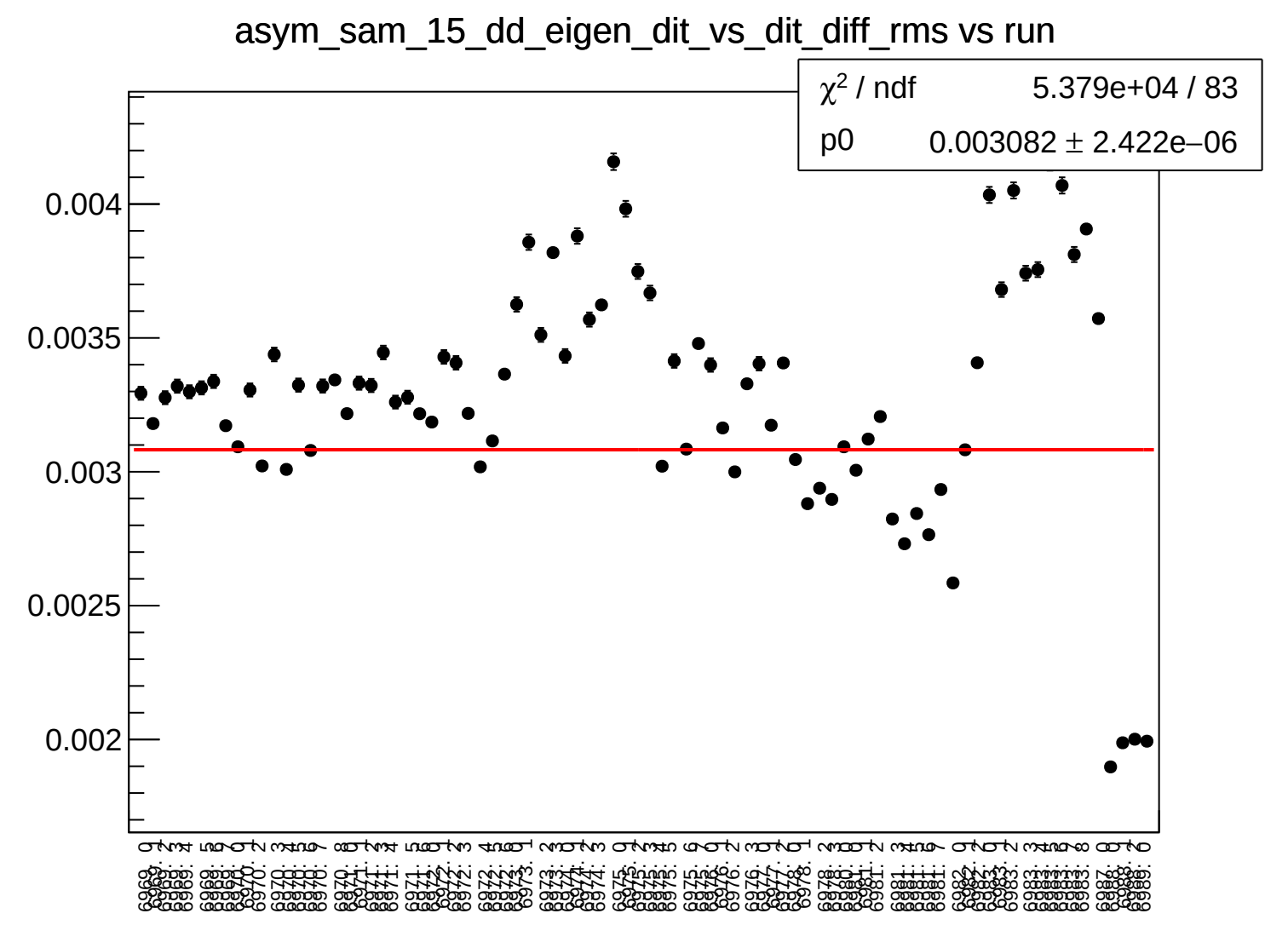

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.054e+04 / 83
p0 31.7 ± 0.02458
38
36
34
32
30
28
26

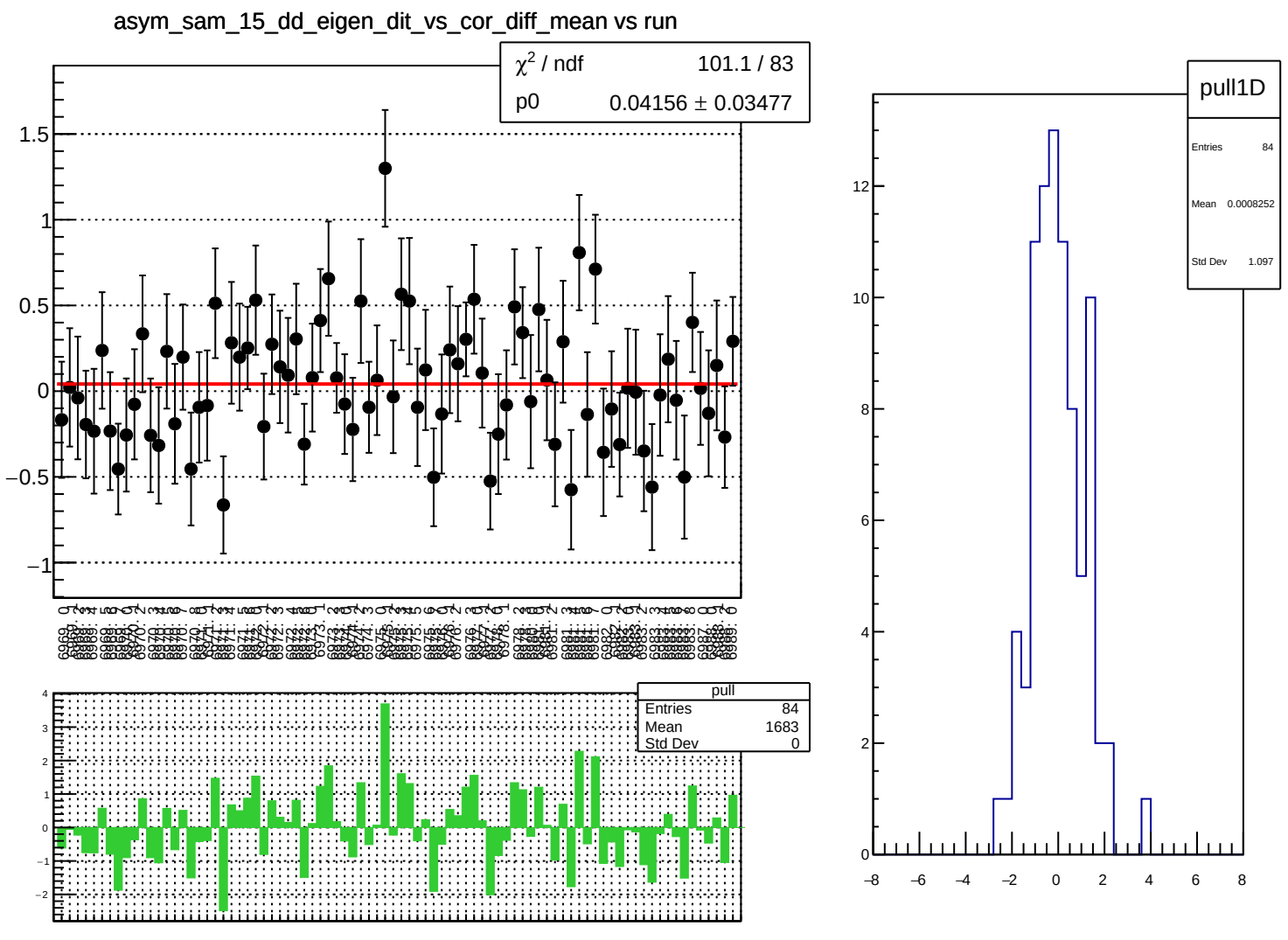

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.1 / 83
p0 0.04156 ± 0.03477
pull
Entries 84
Mean 1680
Std Dev 0

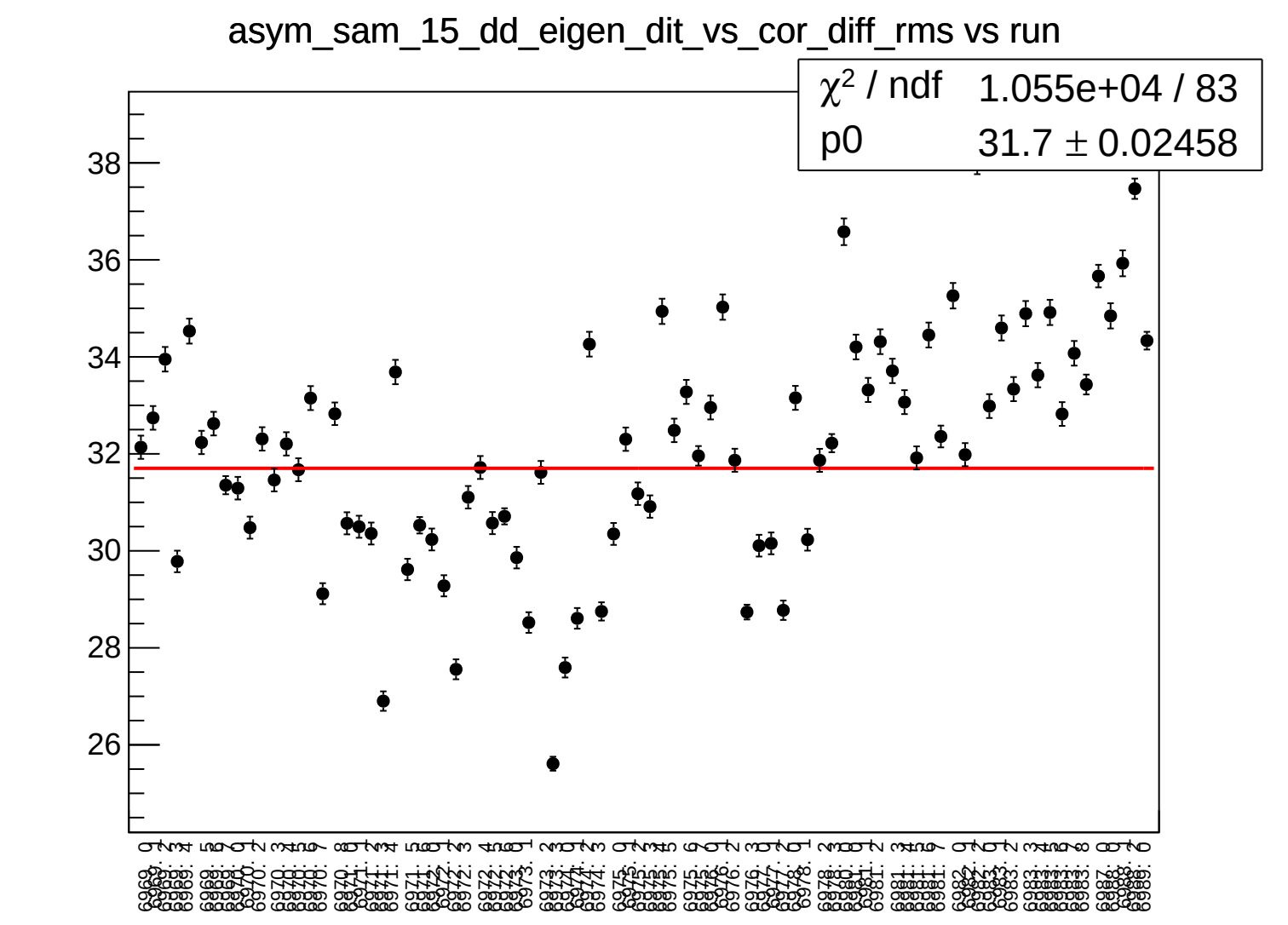

pull1D
Entries 84
Mean 0.0008269
Std Dev 1.097

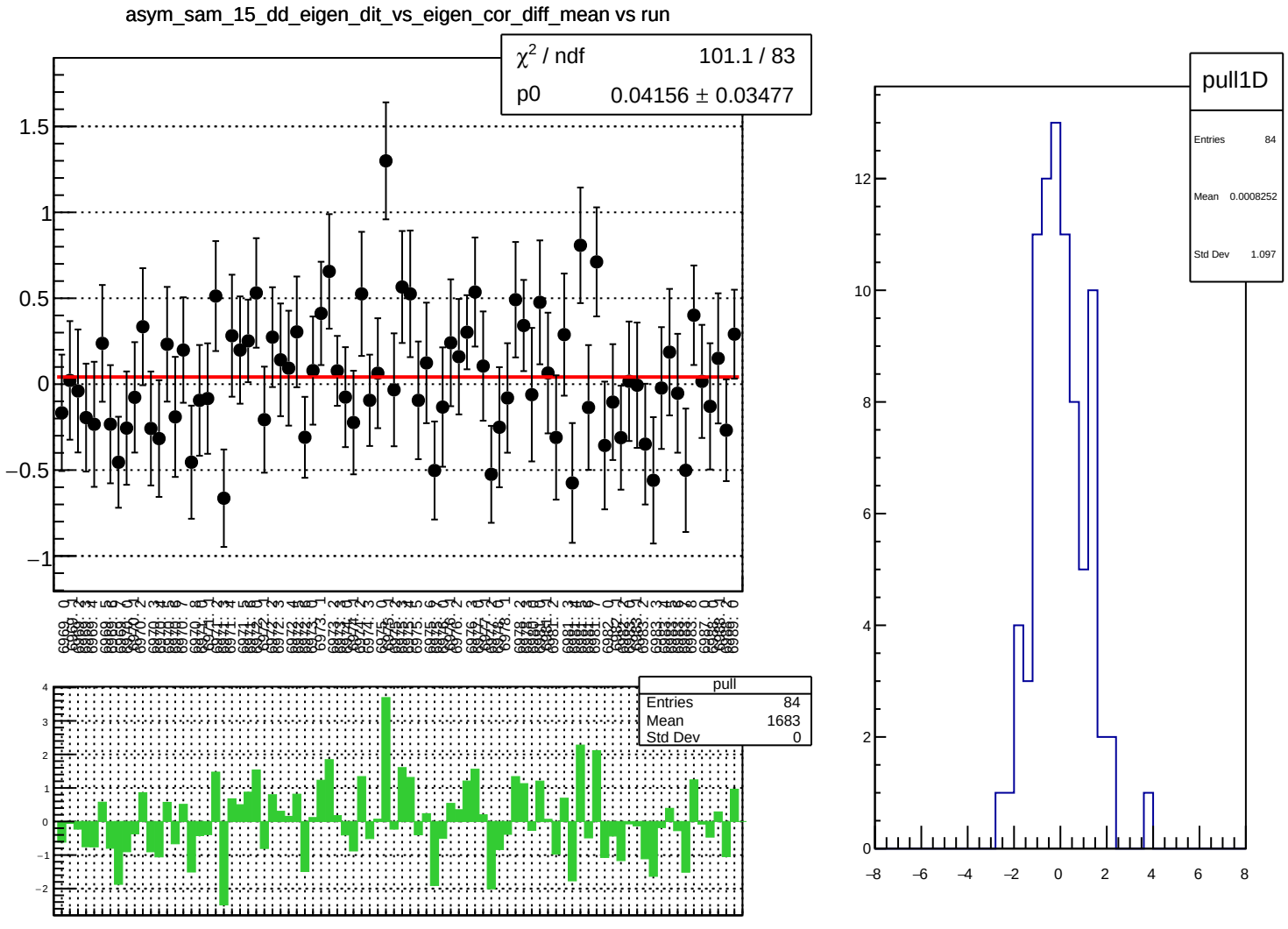

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.054e+04 / 83
p0 31.7 ± 0.02458
38
36
34
32
30
28
26

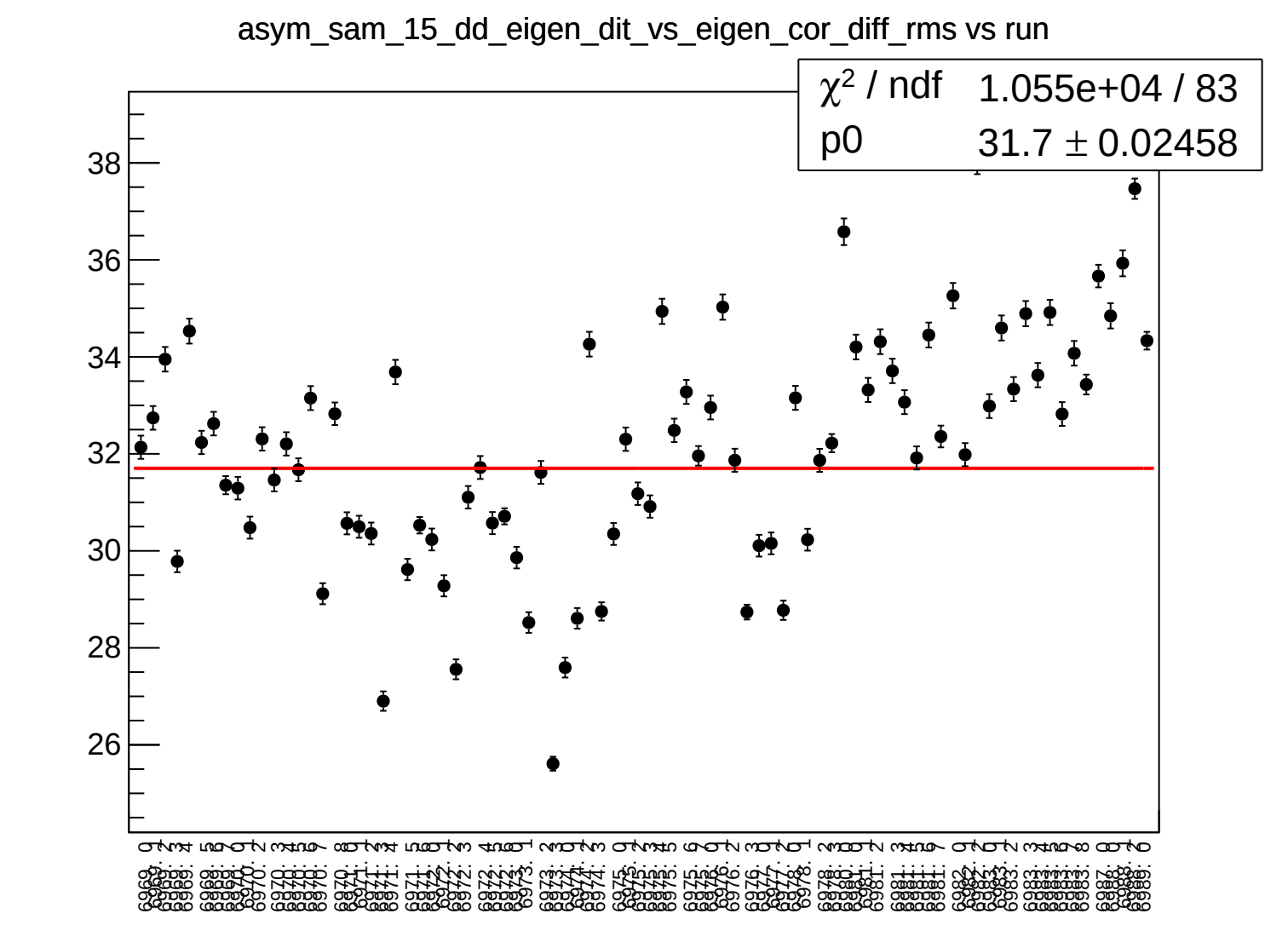

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.7 / 83
p0 5.239e−06 ± 3.425e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean −44.91
Std Dev 0
pull1D
Entries 84
Mean 0.04501
Std Dev 1.142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

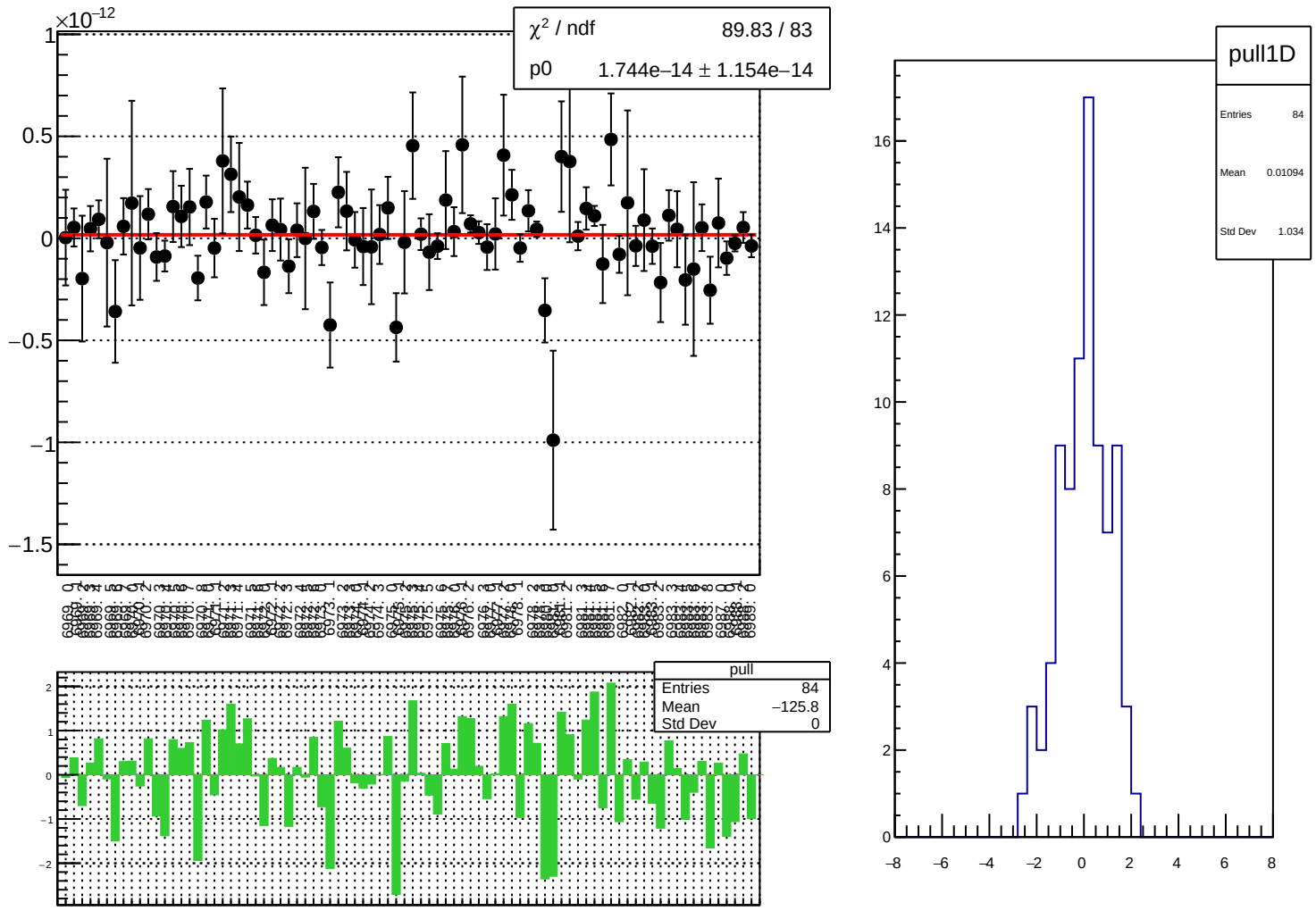

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.379e+04 / 83
p0 0.003082 ± 2.422e−06
0.004
0.0035
0.003
0.0025
0.002

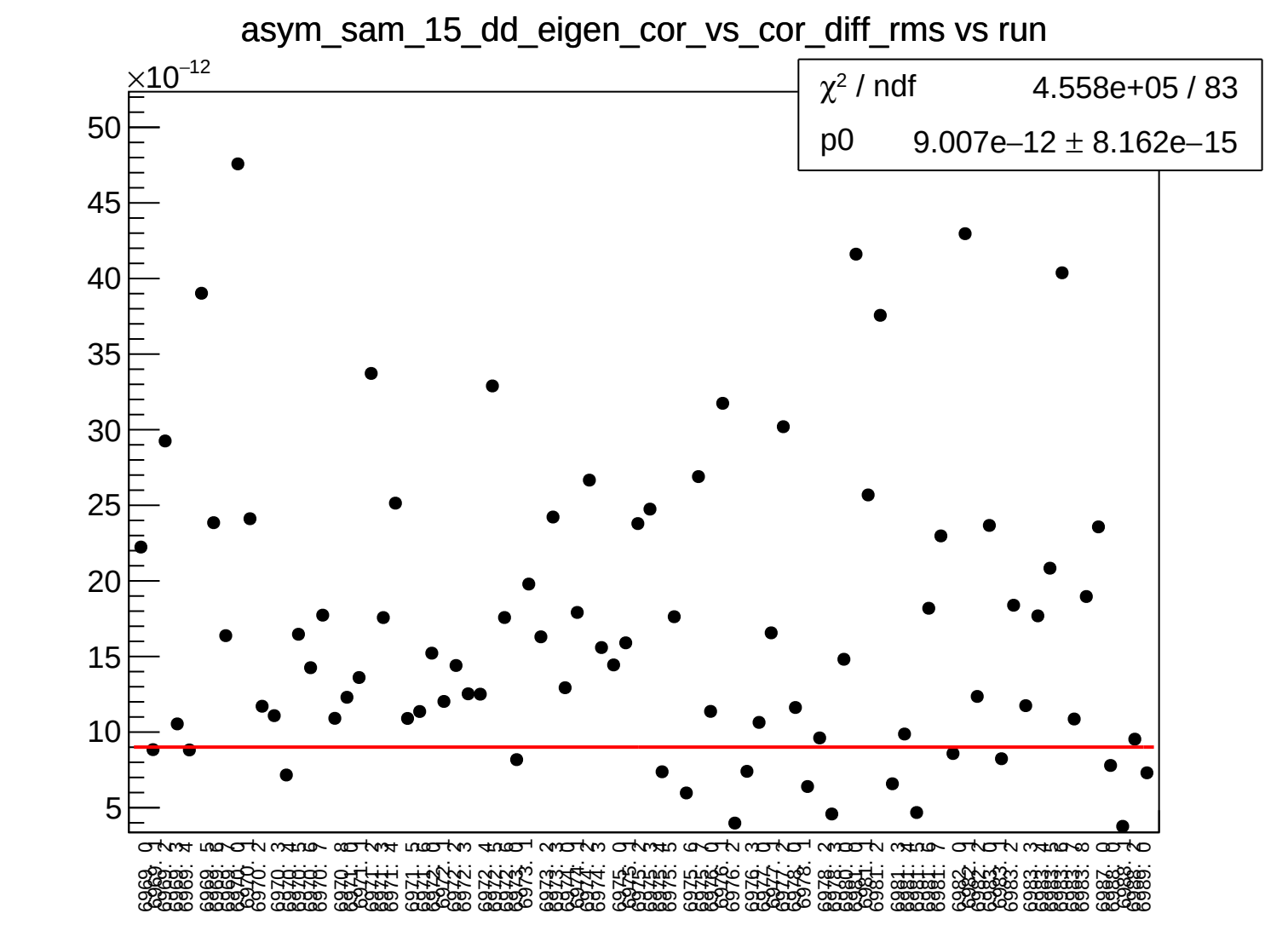

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 83
p0 0.04156 ± 0.03477
pull
Entries 84
Mean 1683
Std Dev 0
pull1D
Entries 84
Mean 0.0008252
Std Dev 1.097

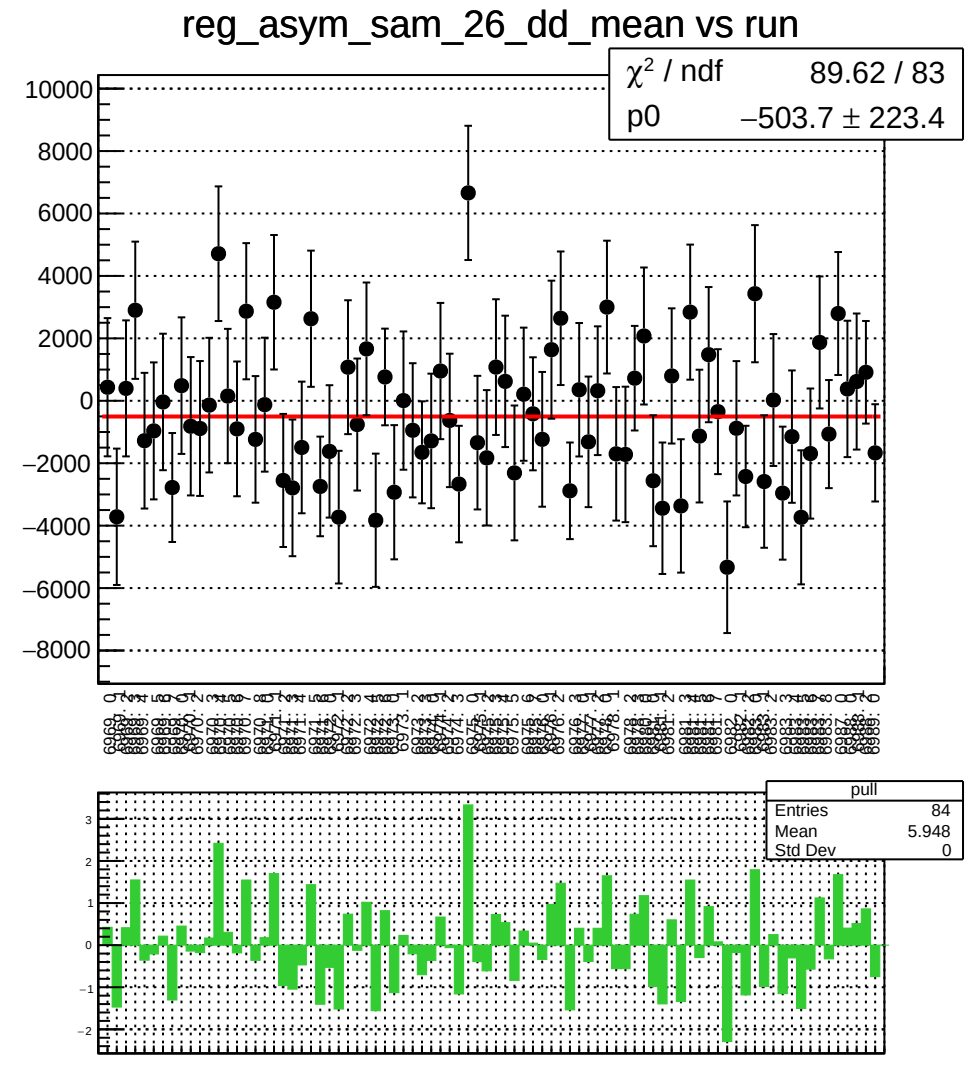

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.055e+04 / 83
p0 31.7 ± 0.02458
38
36
34
32
30
28
26

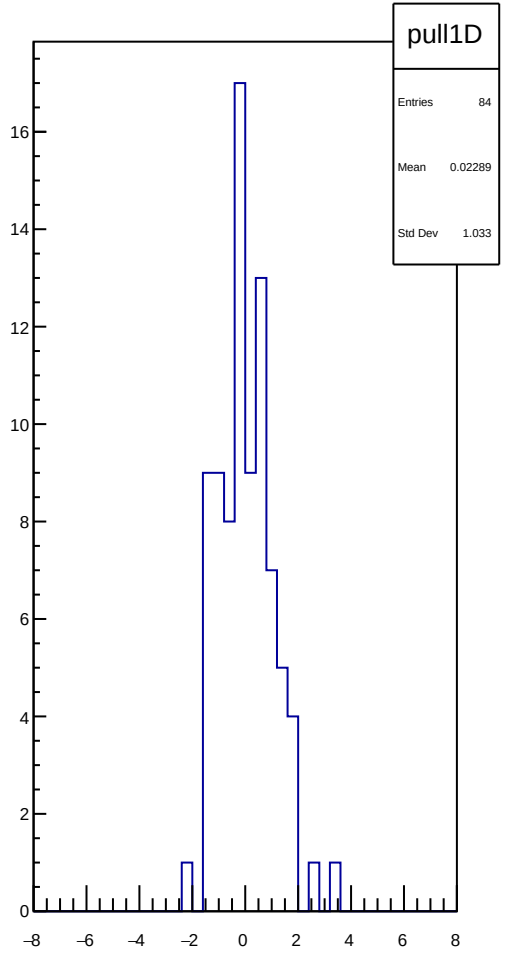

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.1 / 83
p0 0.04156 ± 0.03477
pull
Entries 84
Mean 1683
Std Dev 0
pull1D
Entries 84
Mean 0.0008252
Std Dev 1.097

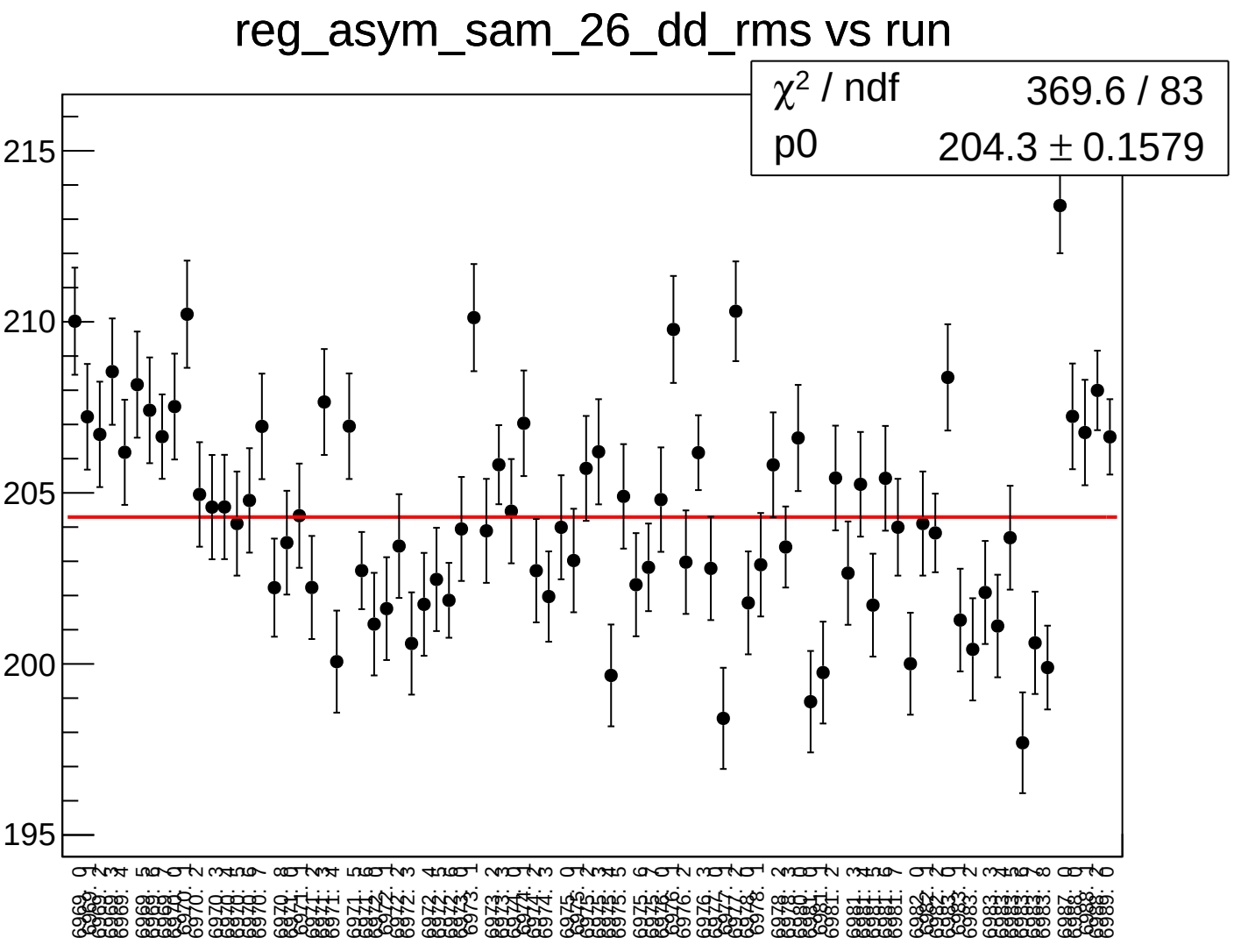

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.055e+04 / 83
p0 31.7 ± 0.02458
38
36
34
32
30
28
26

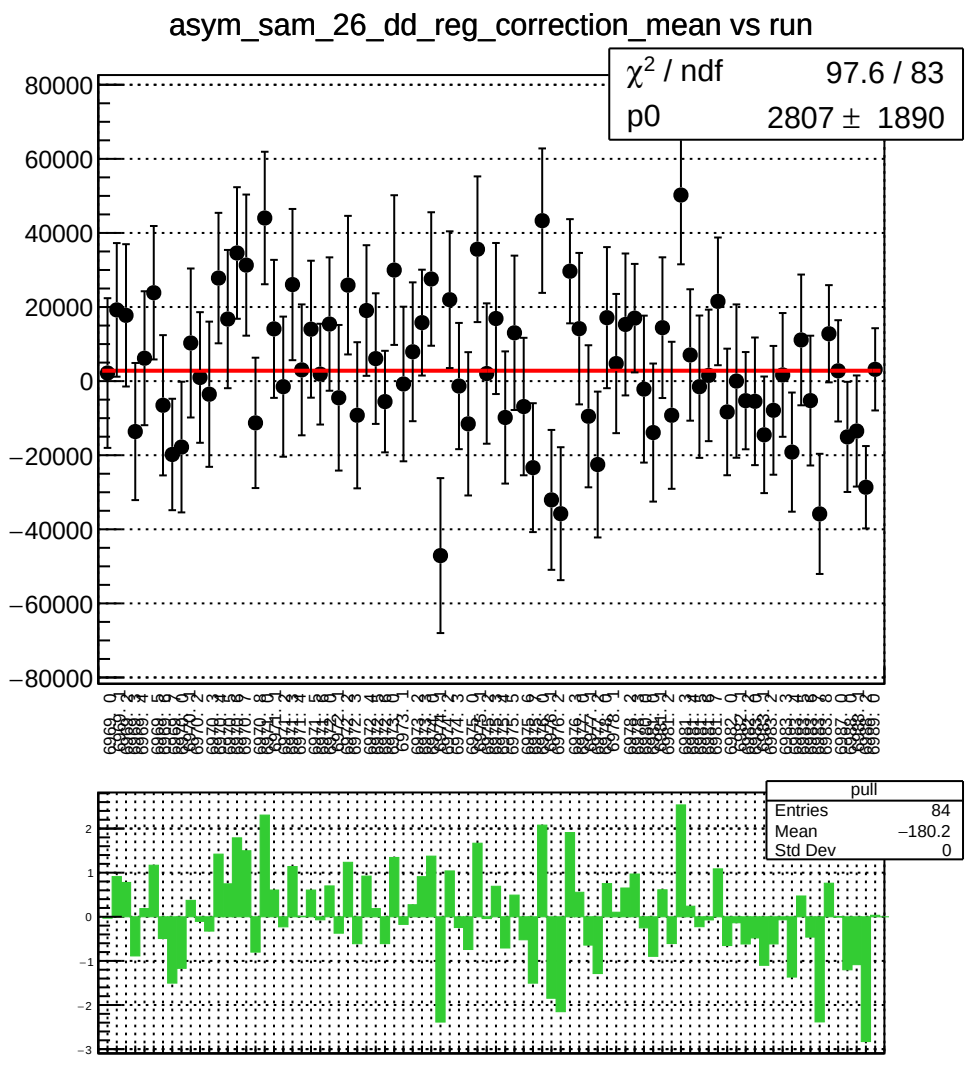

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 89.83 / 83
p0 1.744e−14 ± 1.154e−14
pull
Entries 84
Mean −125.8
Std Dev 0
pull1D
Entries 84
Mean 0.01094
Std Dev 1.034

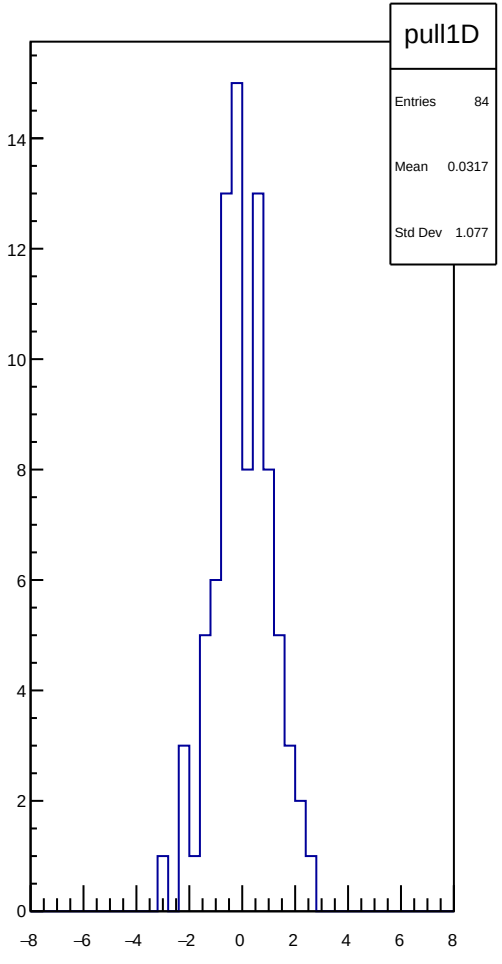

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.558e+05 / 83
p0 9.007e−12 ± 8.162e−15
50
45
40
35
30
25
20
15
10
5

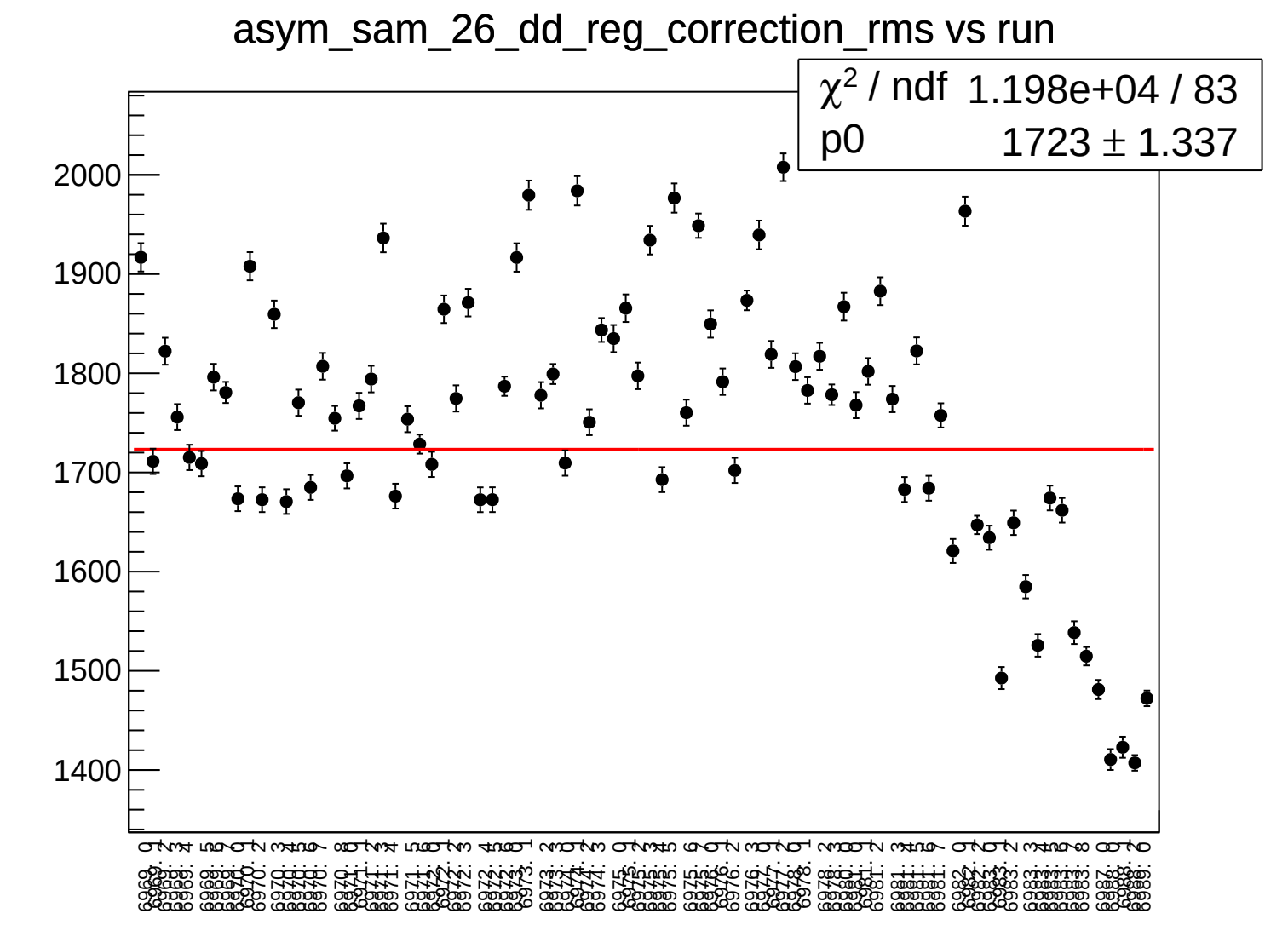

reg_asym_sam_26_dd_mean vs run
χ² / ndf 89.62 / 83
p0 −503.7 ± 223.4
pull
Entries 84
Mean 5.948
Std Dev 0

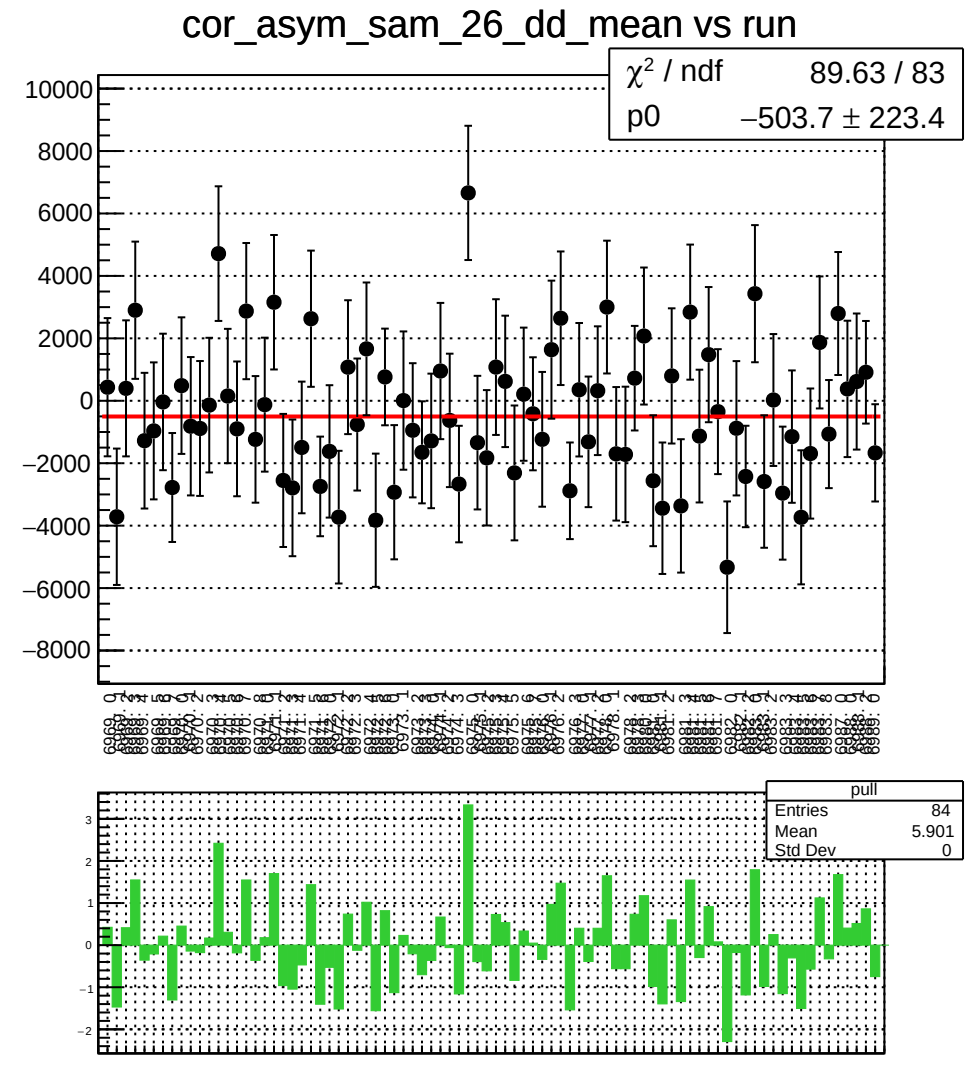

pull1D
Entries 84
Mean 0.02289
Std Dev 1.033

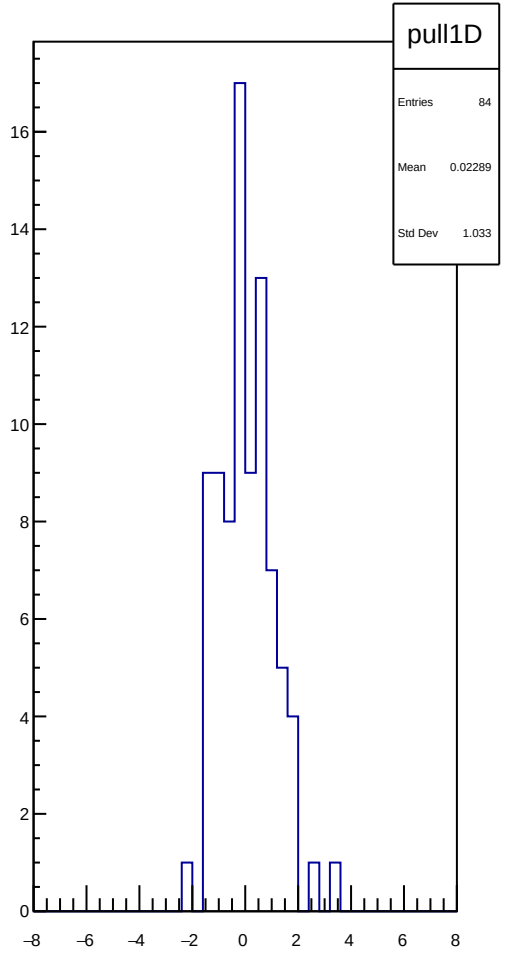

reg_asym_sam_26_dd_rms vs run
χ² / ndf 369.6 / 83
p0 204.3 ± 0.1579
215
210
205
200
195

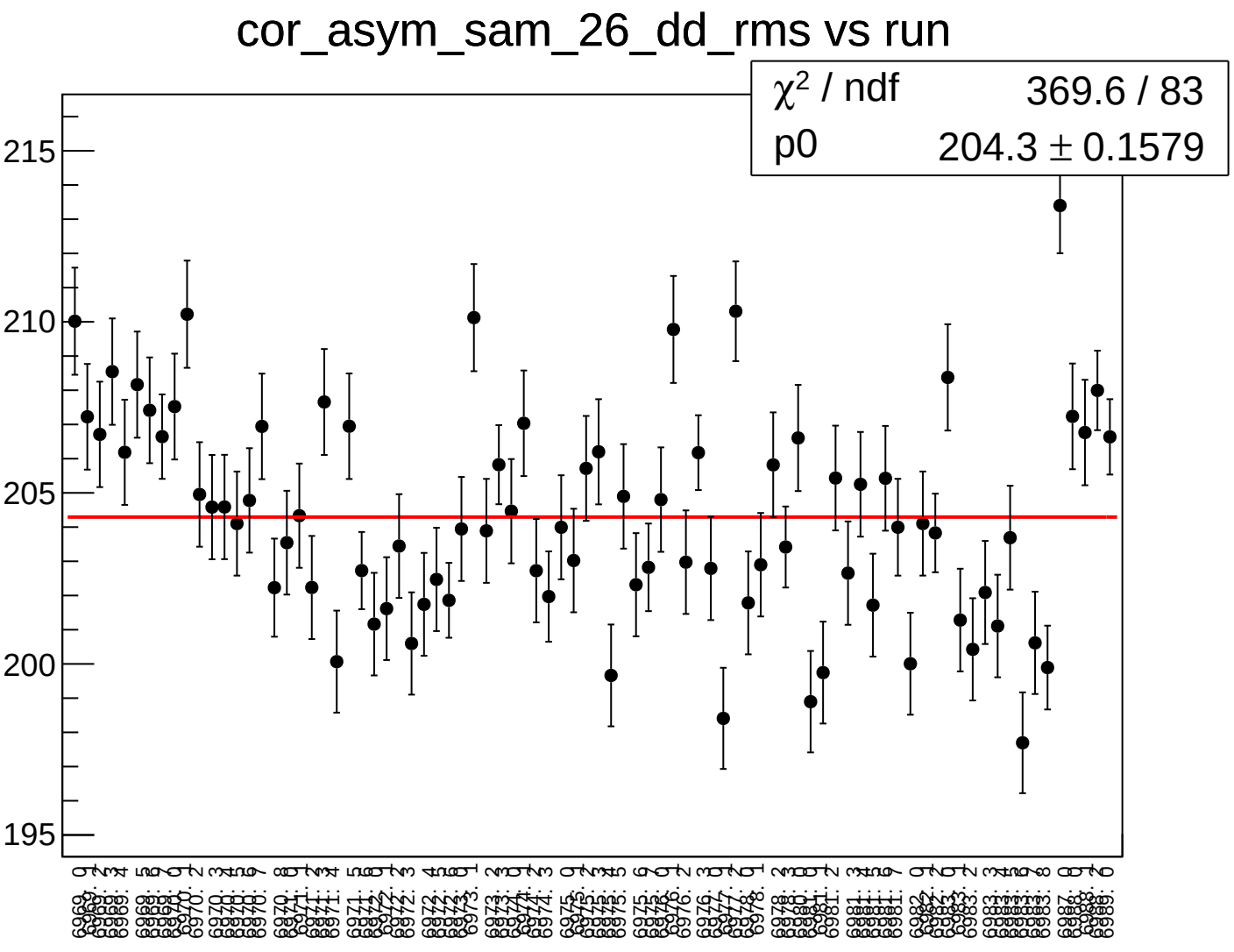

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 97.6 / 83
p0 2807 ± 1890
pull
Entries 84
Mean −180.2
Std Dev 0

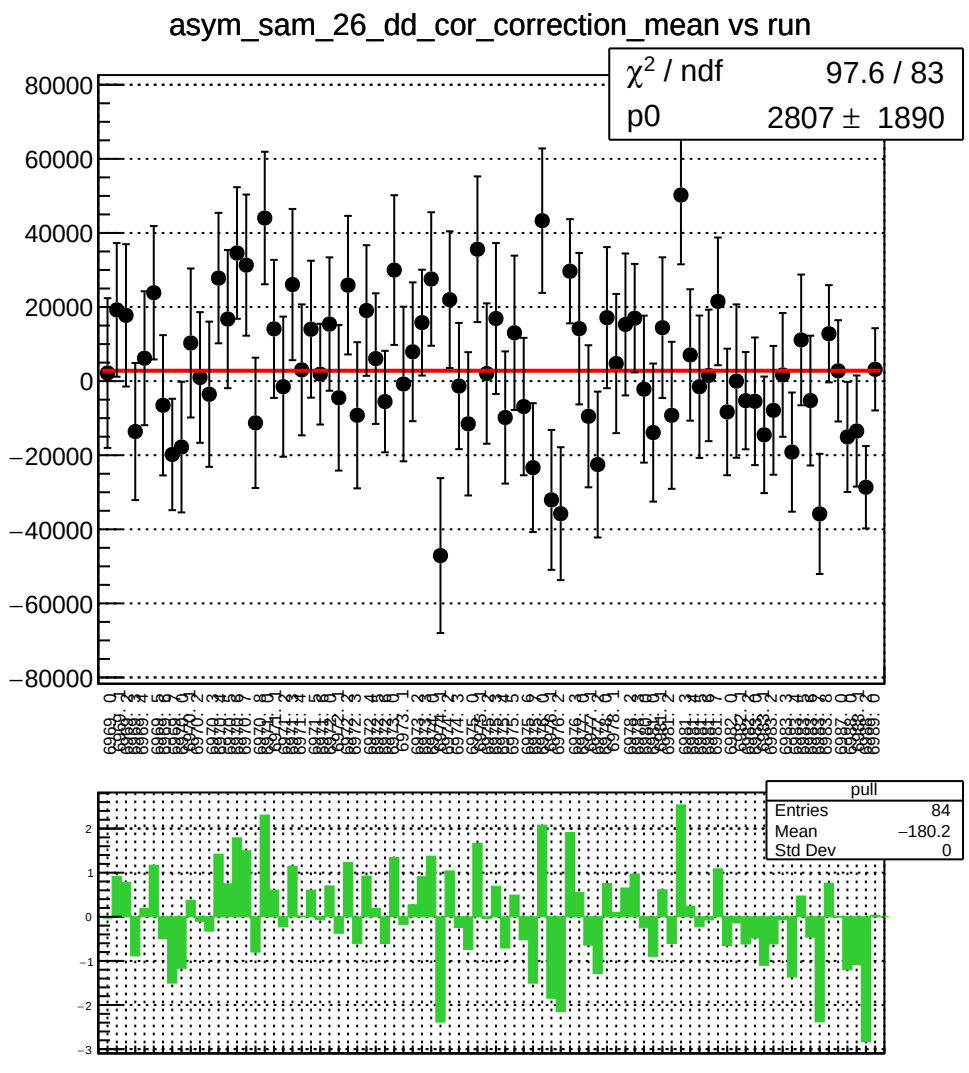

pull1D
Entries 84
Mean 0.0317
Std Dev 1.077

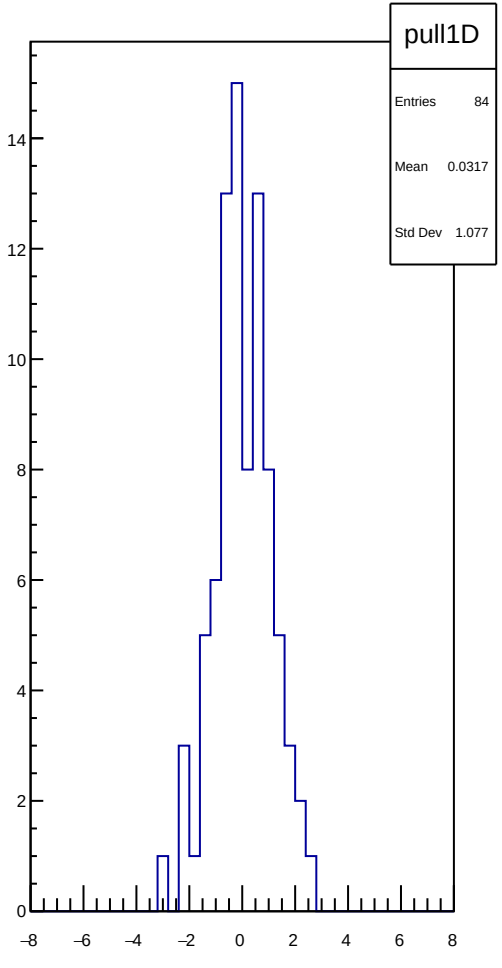

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1.198e+04 / 83
p0 1723 ± 1.337
2000
1900
1800
1700
1600
1500
1400

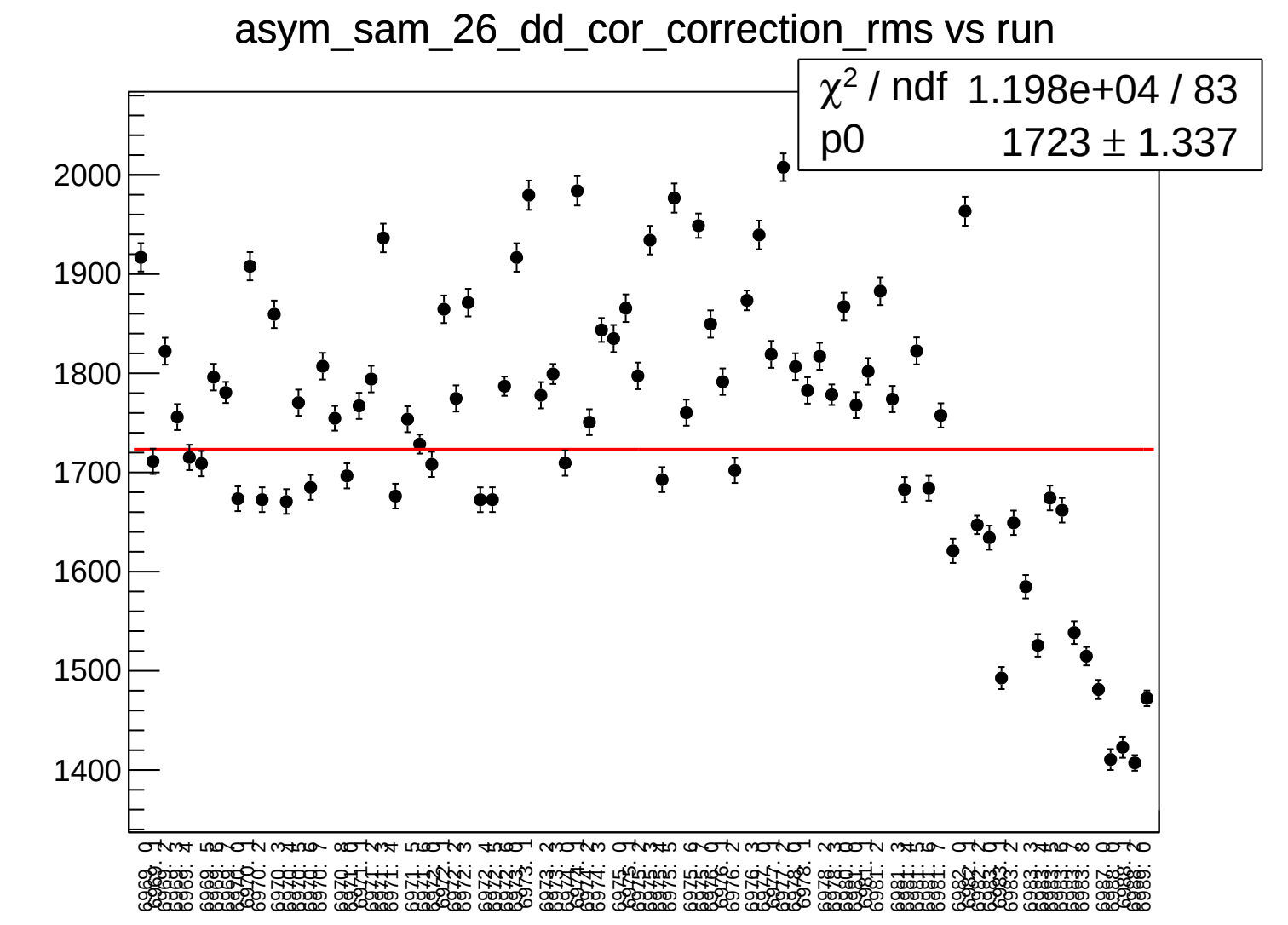

cor_asym_sam_26_dd_mean vs run
χ² / ndf 89.63 / 83
p0 −503.7 ± 223.4
pull
Entries 84
Mean 5.901
Std Dev 0

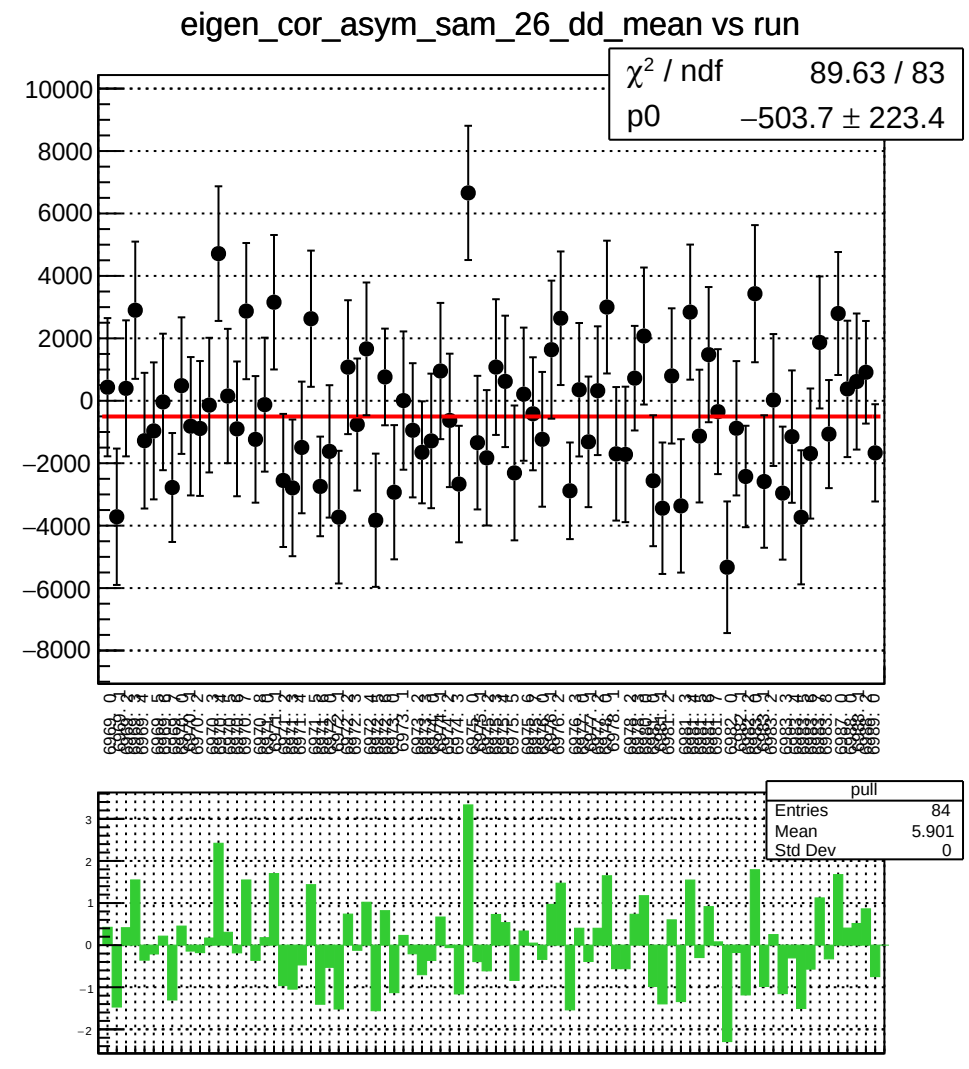

pull1D
Entries 84
Mean 0.02289
Std Dev 1.033

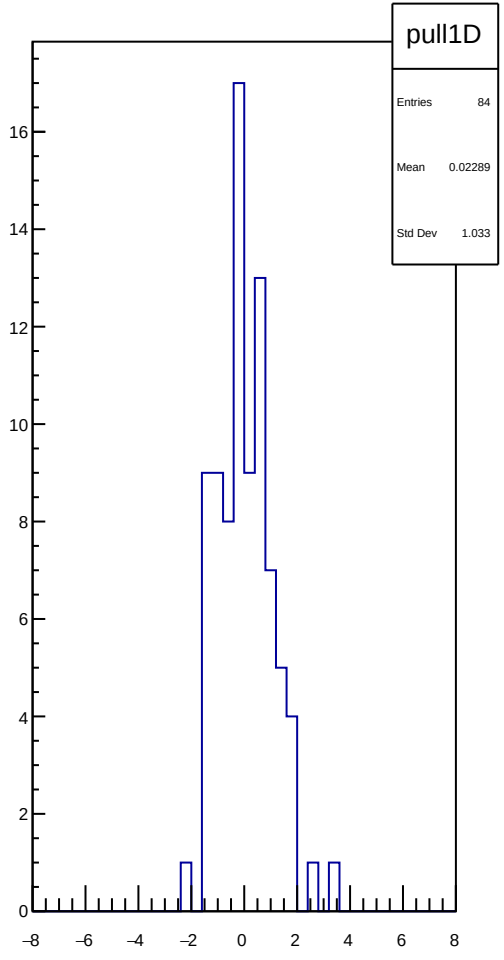

cor_asym_sam_26_dd_rms vs run
χ² / ndf 369.6 / 83
p0 204.3 ± 0.1579
215
210
205
200
195

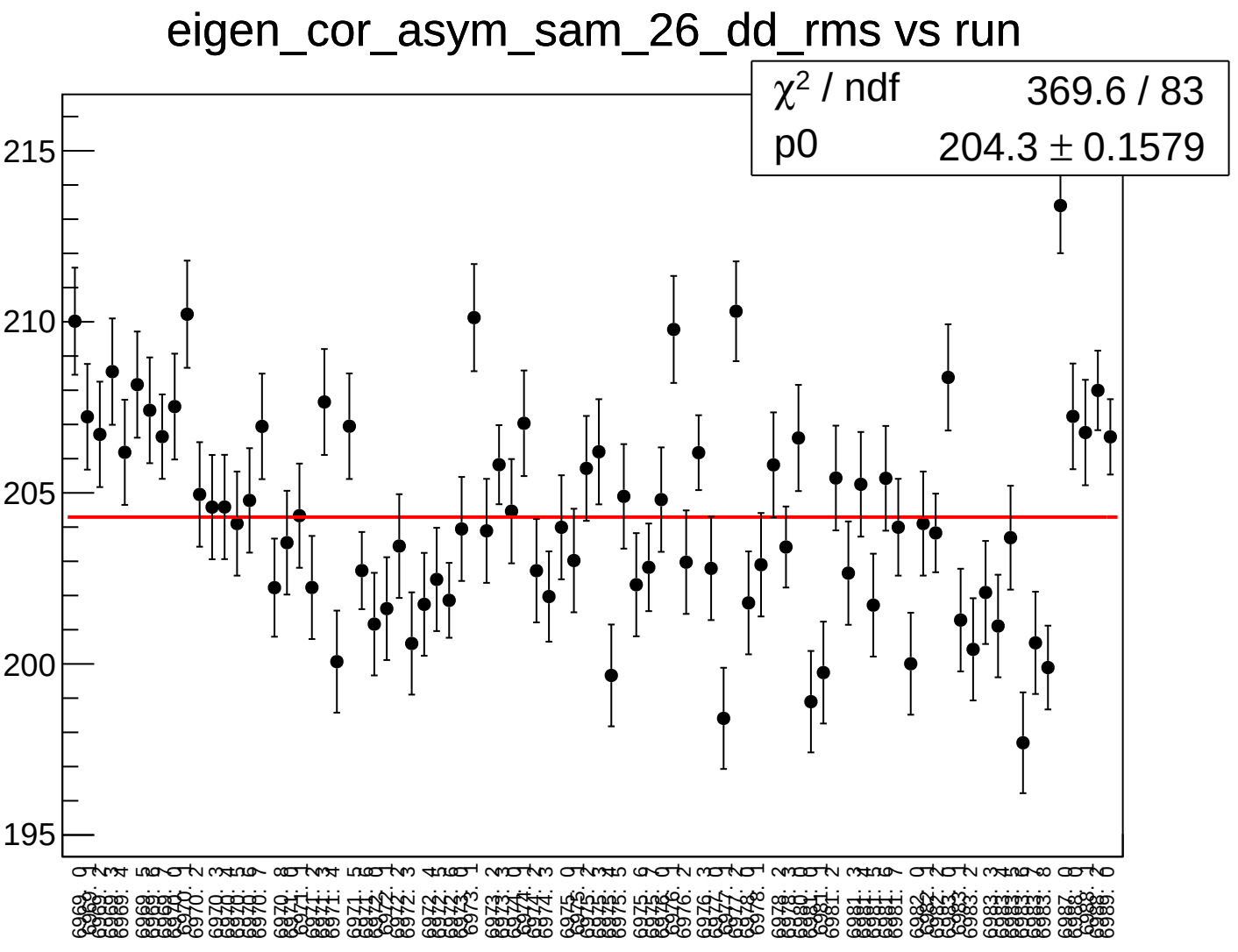

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 97.6 / 83
p0 2807 ± 1890
pull
Entries 84
Mean −180.2
Std Dev 0

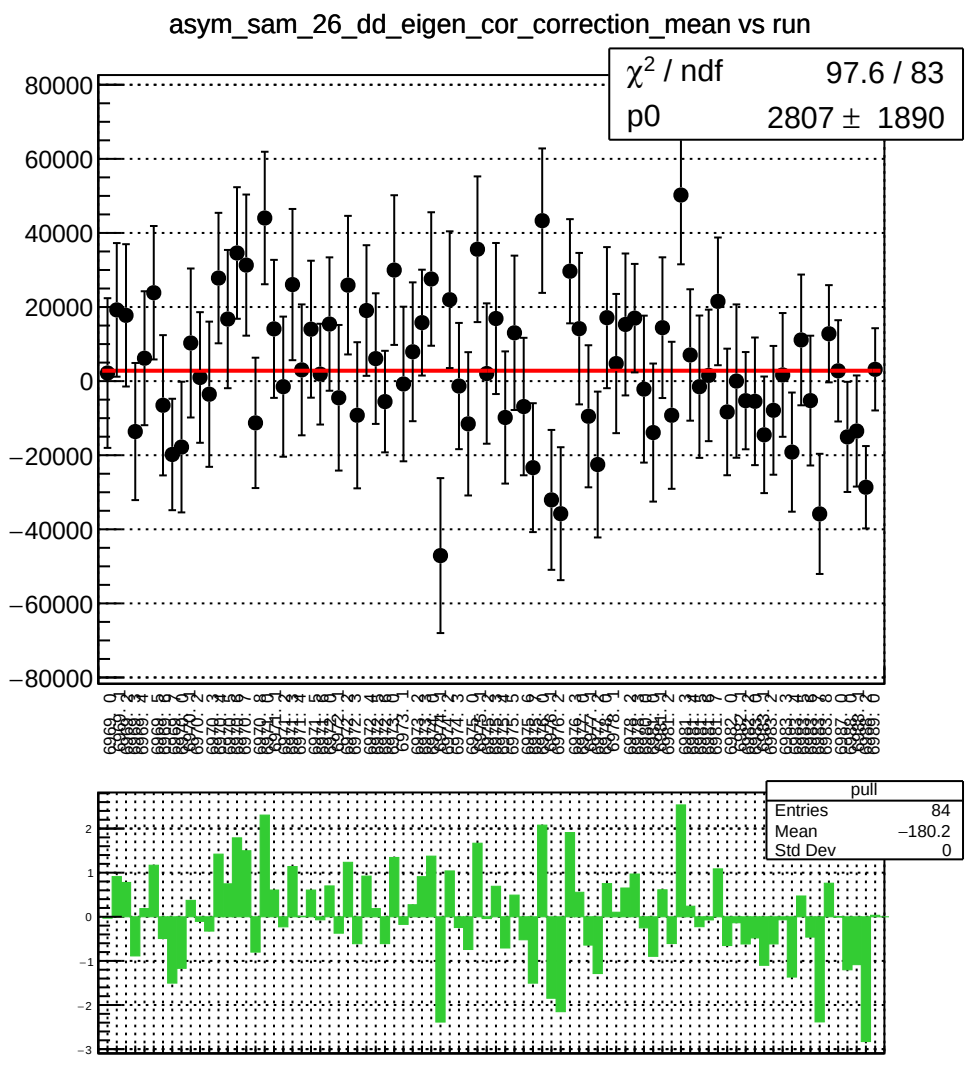

pull1D
Entries 84
Mean 0.0317
Std Dev 1.077

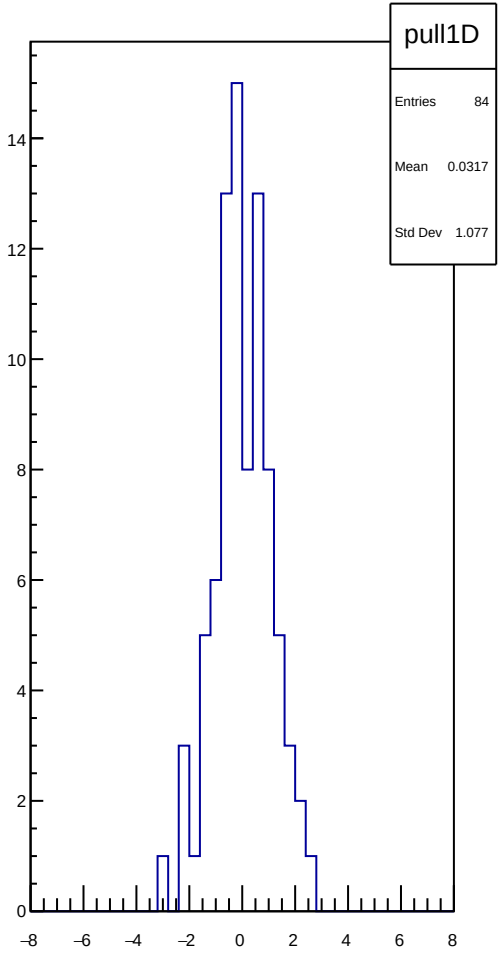

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 1.198e+04 / 83
p0 1723 ± 1.337
2000
1900
1800
1700
1600
1500
1400

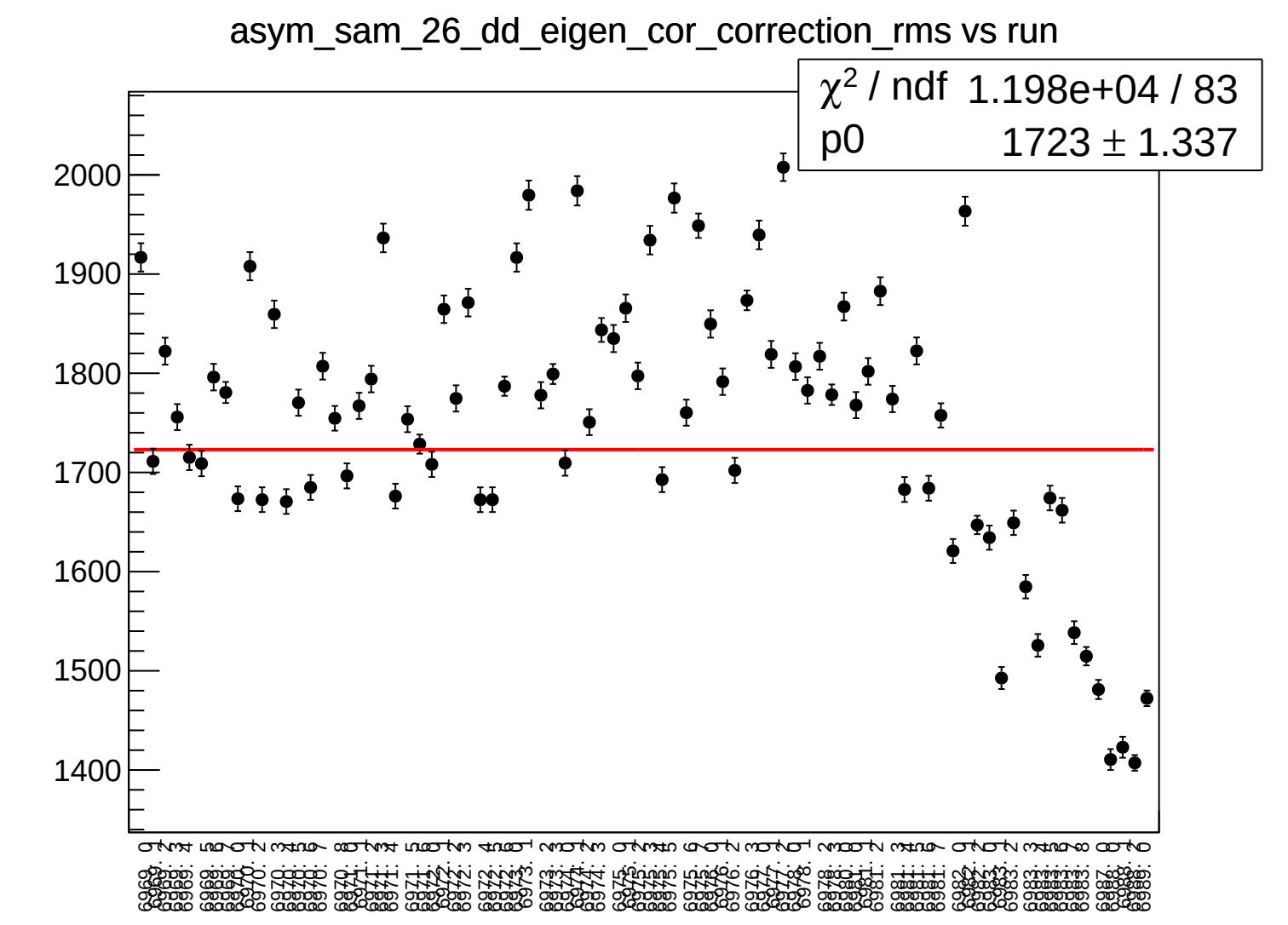

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 89.63 / 83
p0 −503.7 ± 223.4
pull
Entries 84
Mean 5.901
Std Dev 0

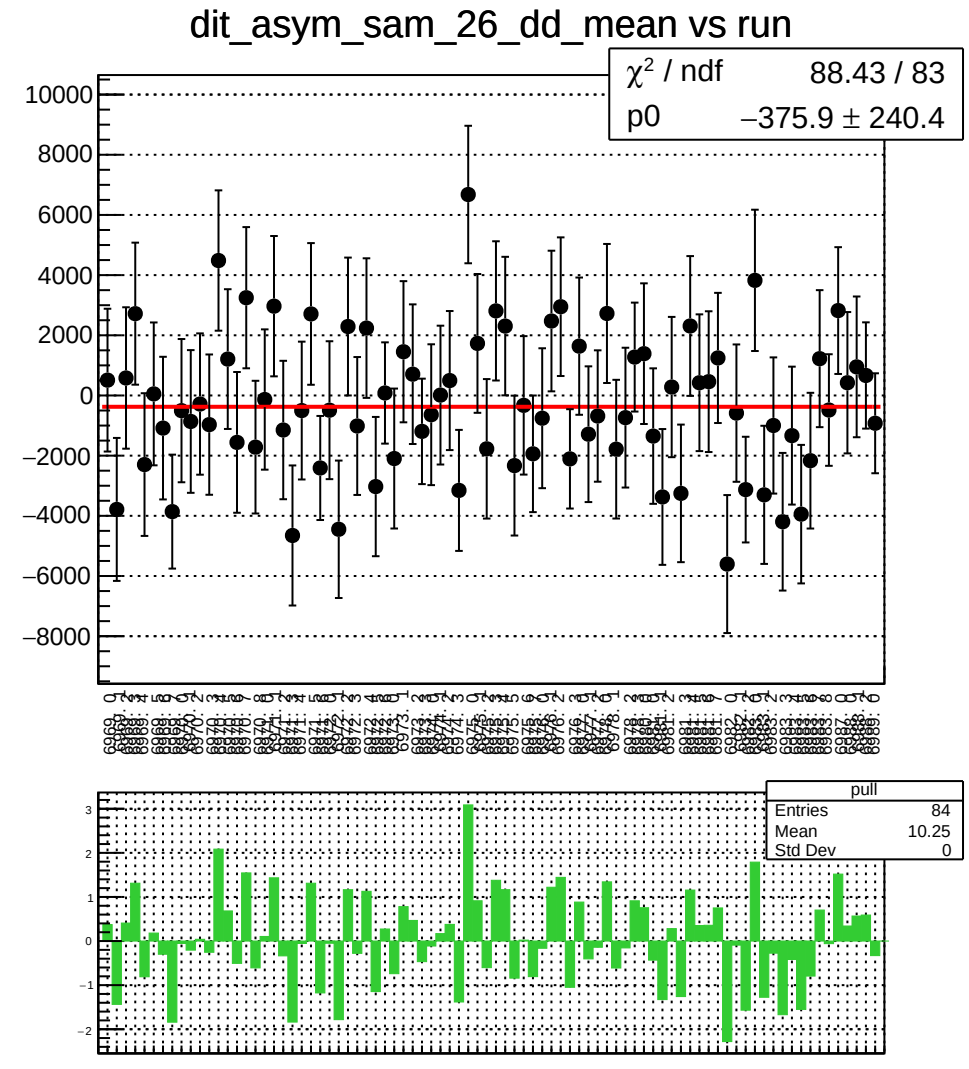

pull1D
Entries 84
Mean 0.02289
Std Dev 1.033

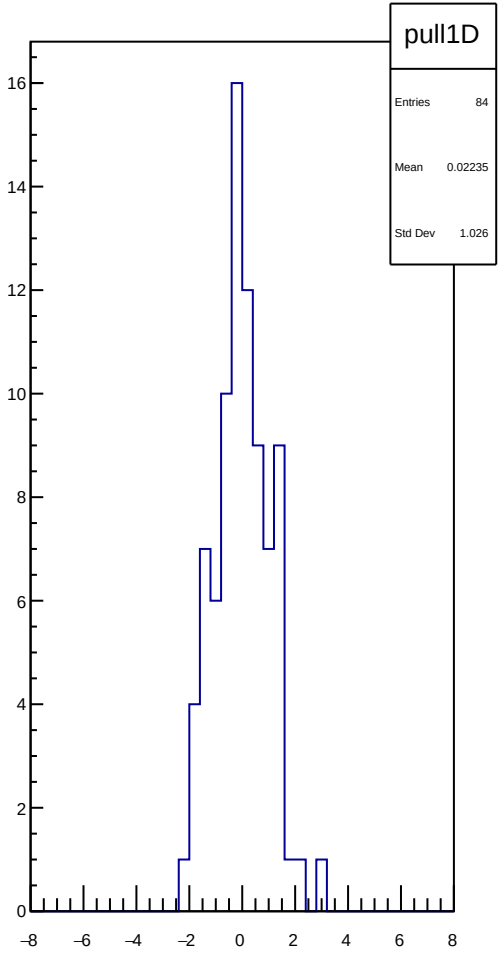

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 369.6 / 83
p0 204.3 ± 0.1579
215
210
205
200
195

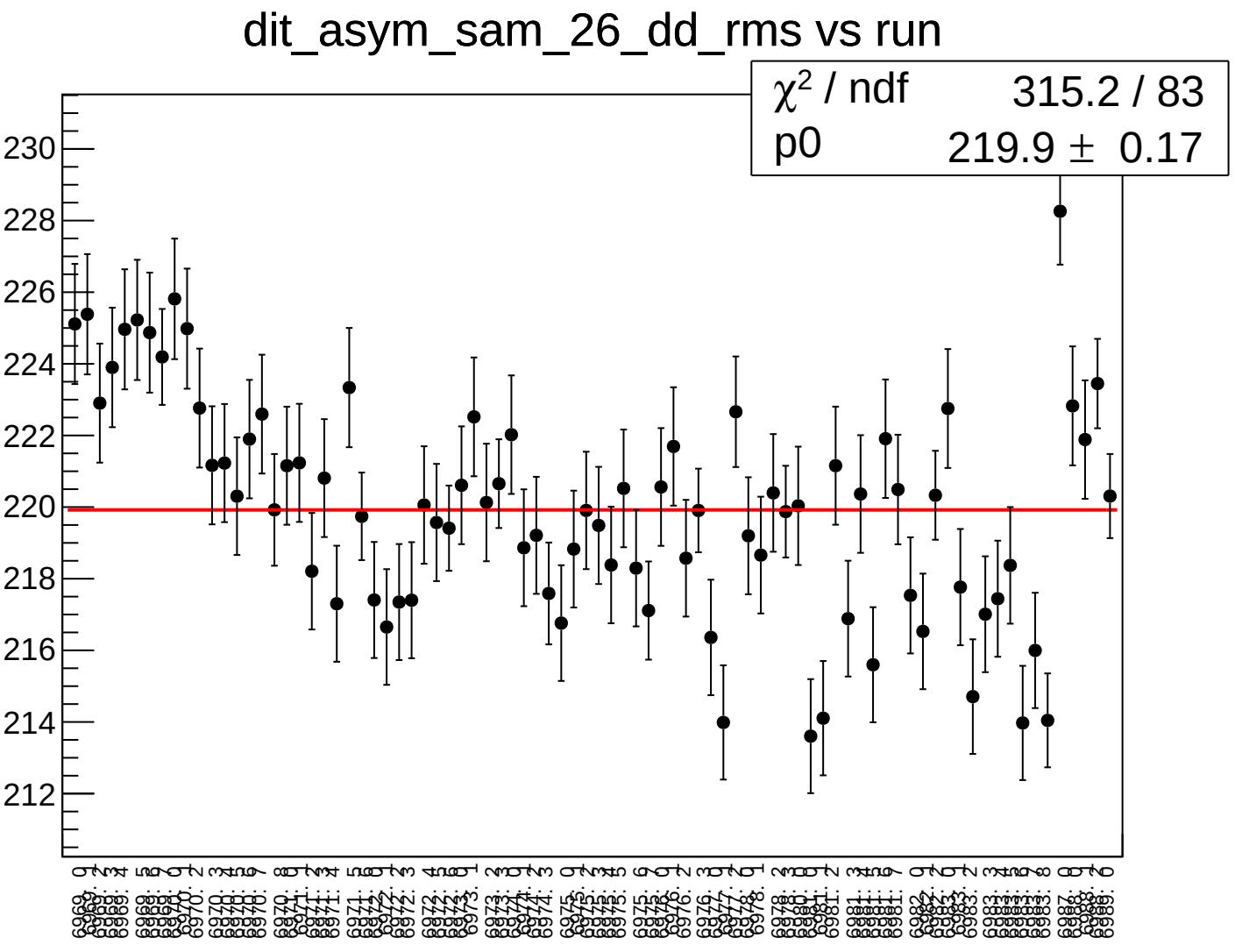

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.6 / 83
p0 2807 ± 1890
pull
Entries 84
Mean −180.2
Std Dev 0

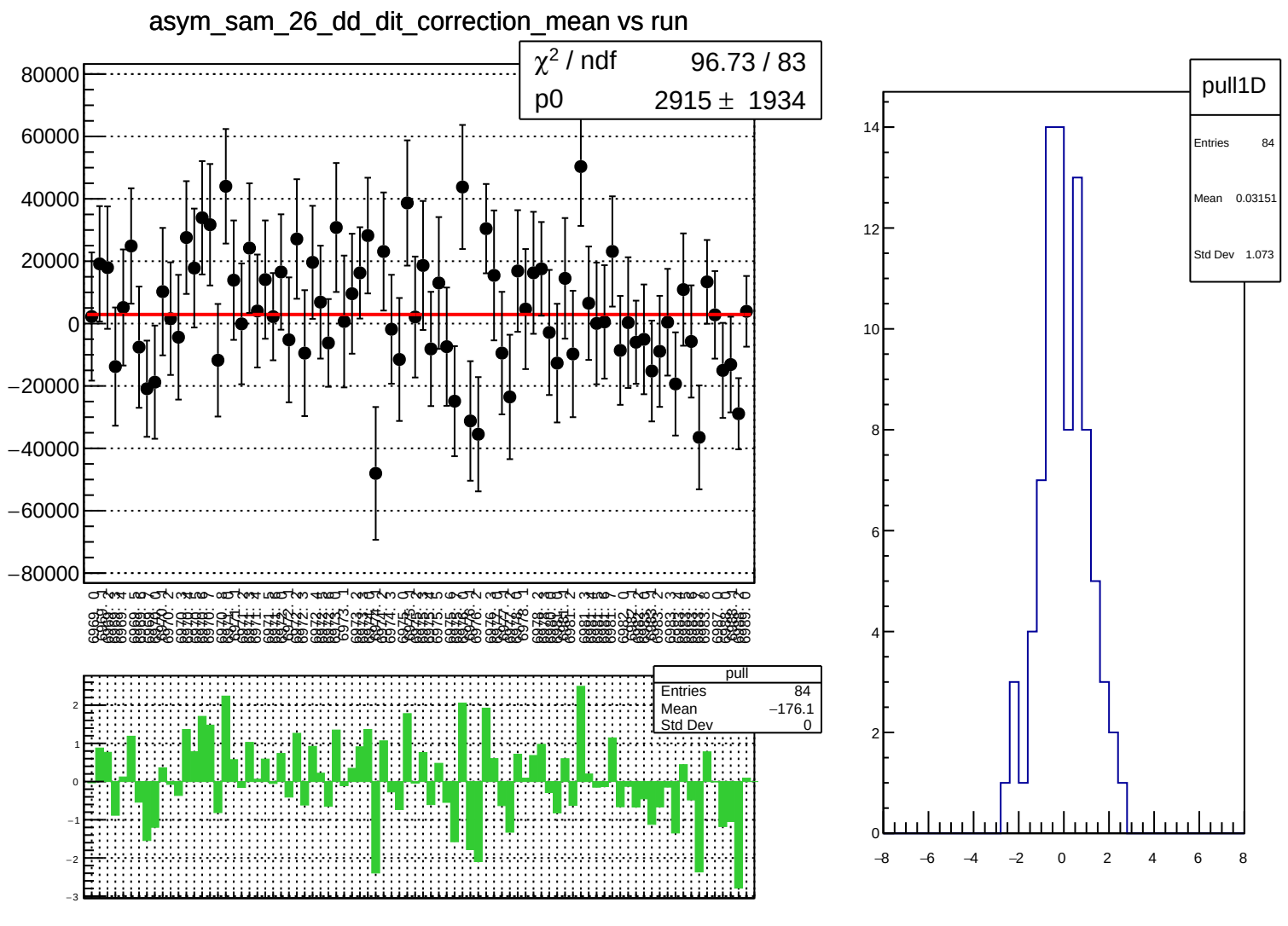

pull1D
Entries 84
Mean 0.0317
Std Dev 1.077

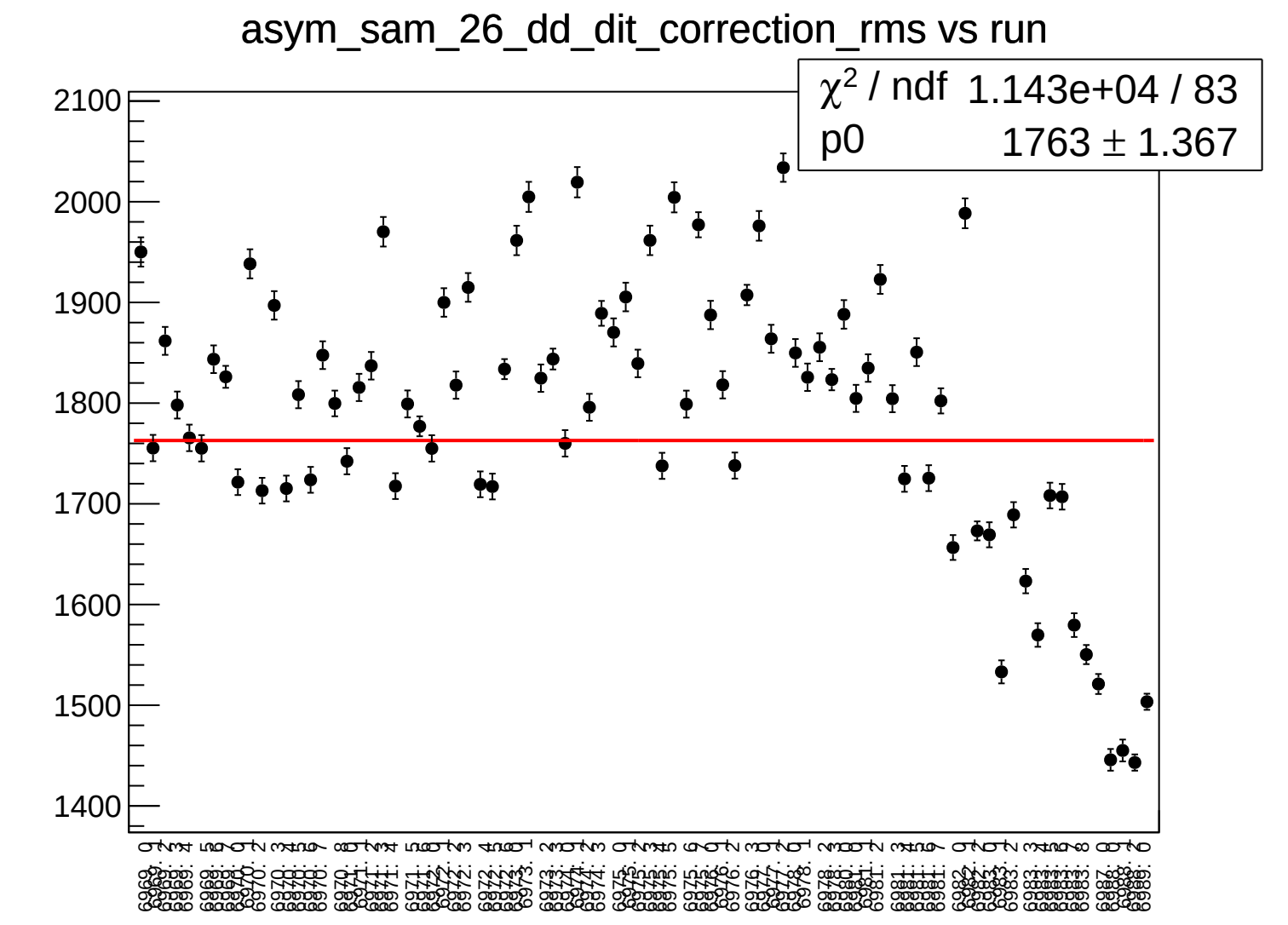

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.198e+04 / 83
p0 1723 ± 1.337
2000
1900
1800
1700
1600
1500
1400

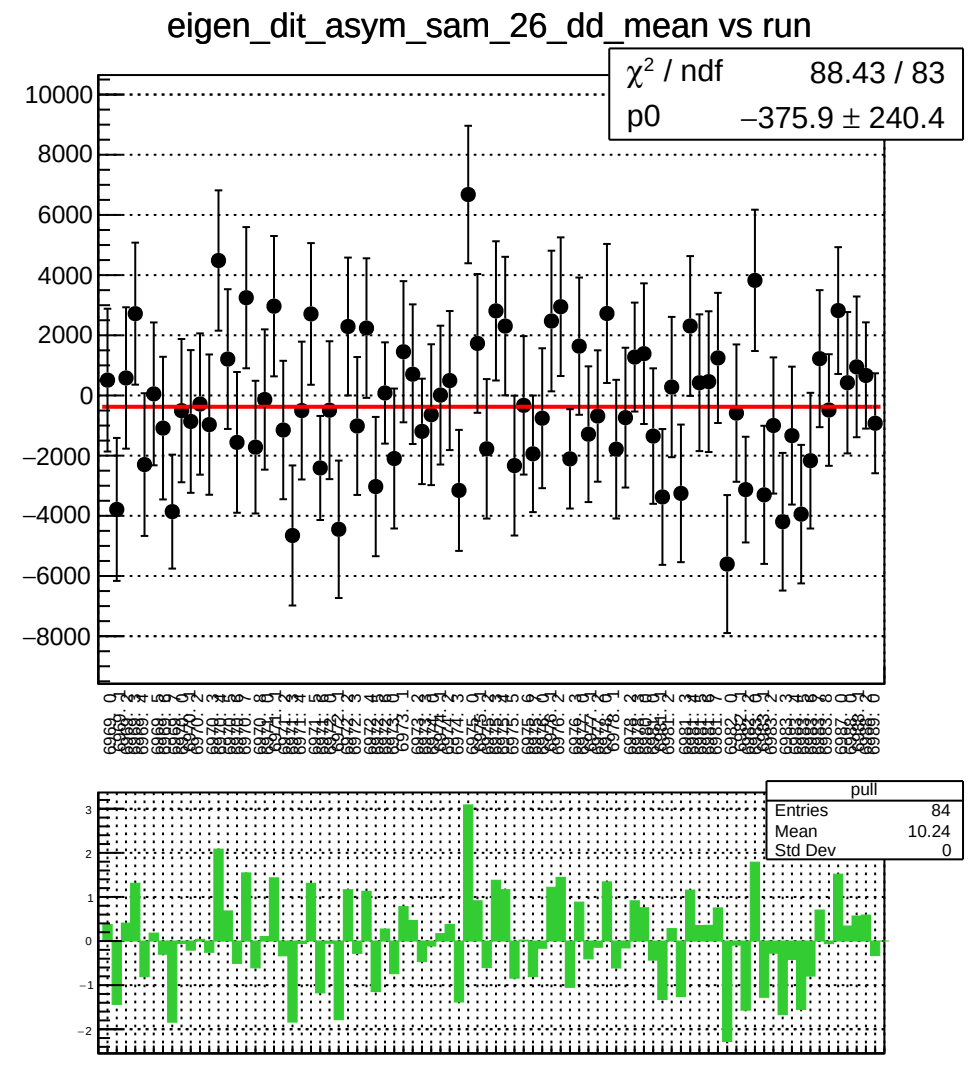

dit_asym_sam_26_dd_mean vs run
χ² / ndf 88.43 / 83
p0 −375.9 ± 240.4
pull
Entries 84
Mean 10.25
Std Dev 0

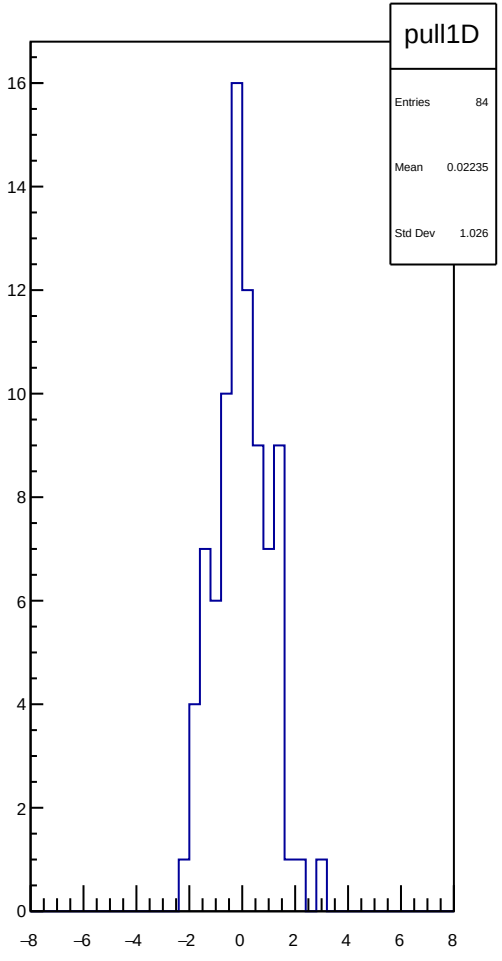

pull1D
Entries 84
Mean 0.02235
Std Dev 1.026

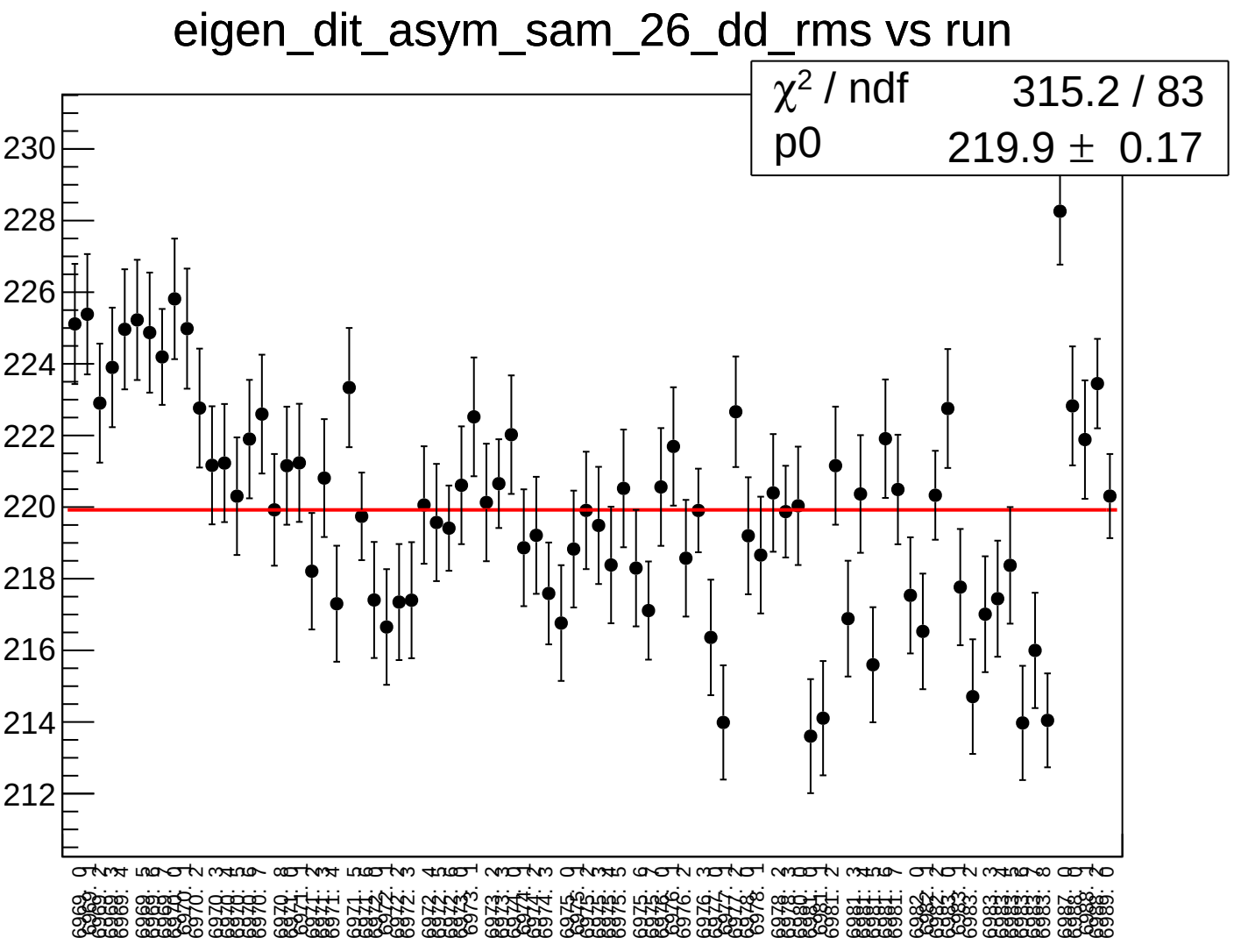

dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 315.2 / 83
p0 219.9 ± 0.17
230
228
226
224
222
220
218
216
214
212

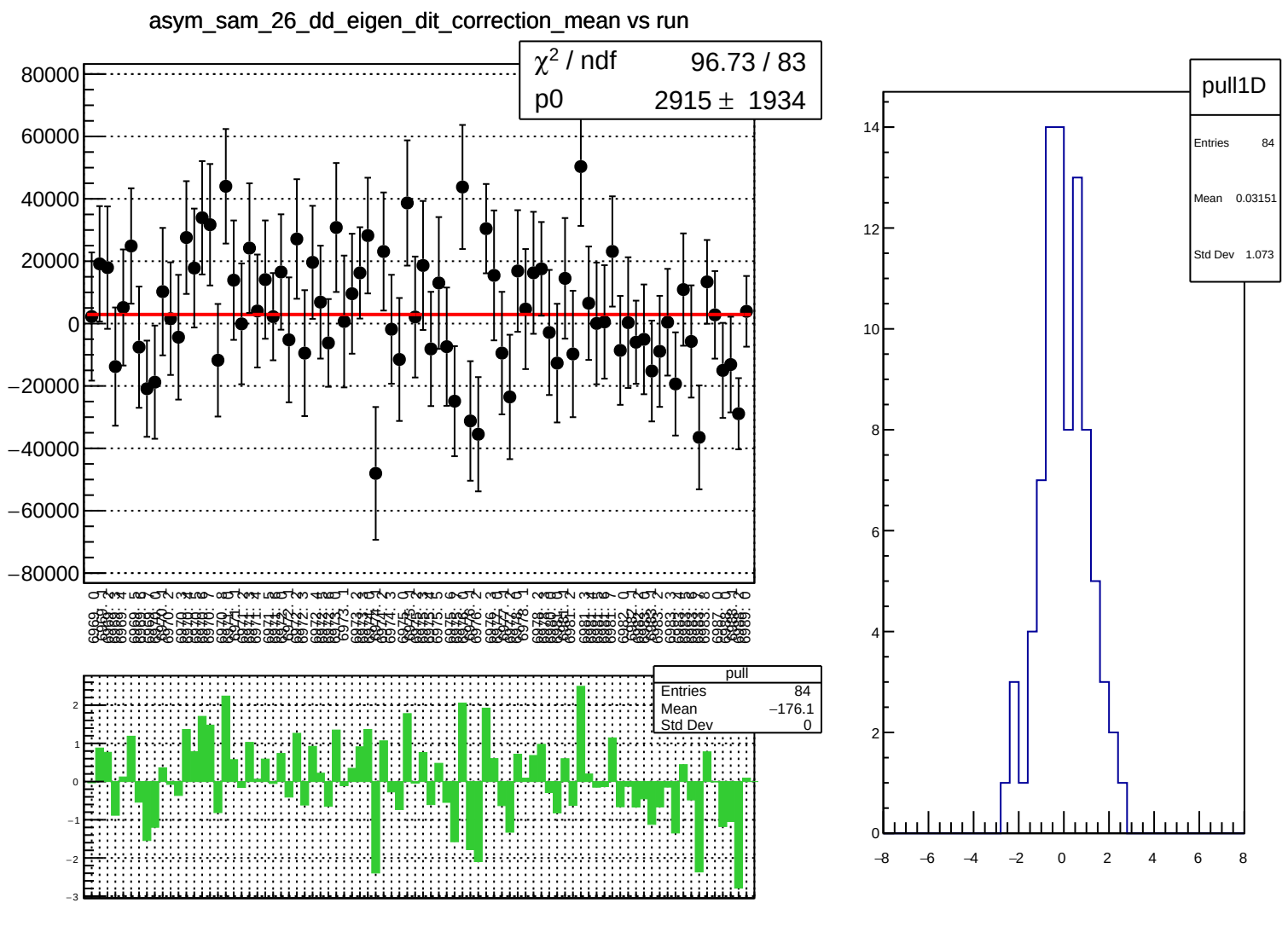

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 96.73 / 83
p0 2915 ± 1934
pull
Entries 84
Mean −176.1
Std Dev 0
pull1D
Entries 84
Mean 0.03151
Std Dev 1.073

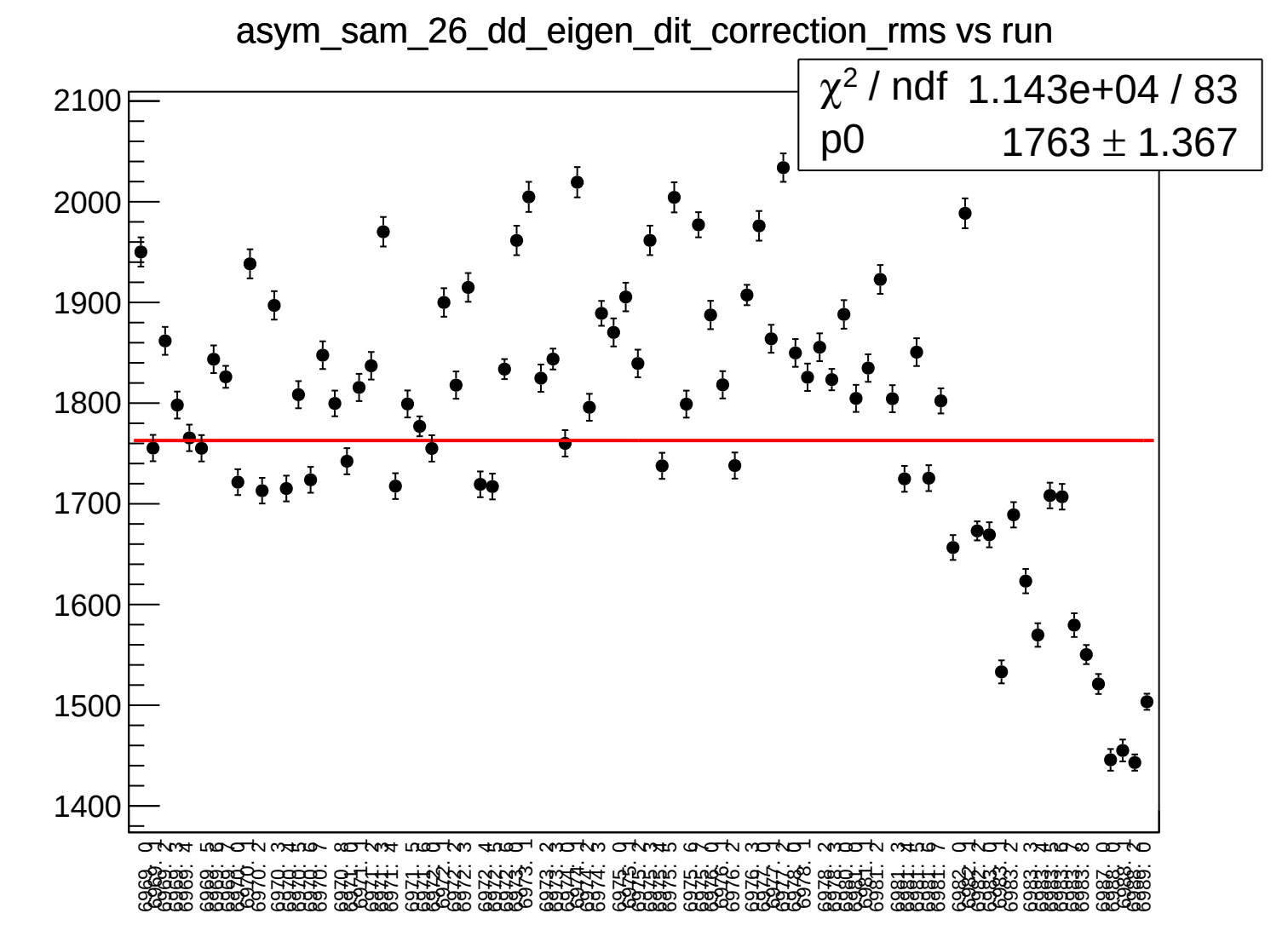

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.143e+04 / 83
p0 1763 ± 1.367
2100
2000
1900
1800
1700
1600
1500
1400

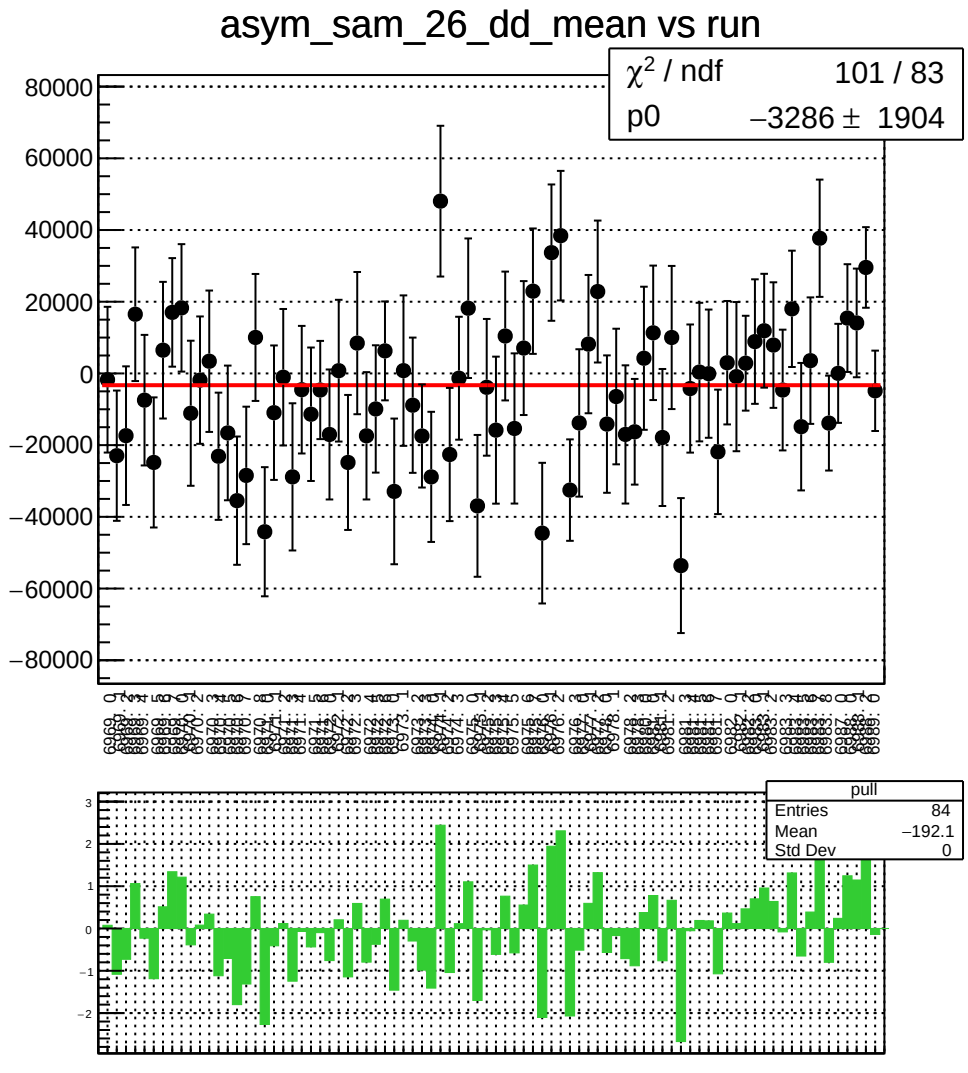

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 88.43 / 83
p0 −375.9 ± 240.4
pull
Entries 84
Mean 10.24
Std Dev 0

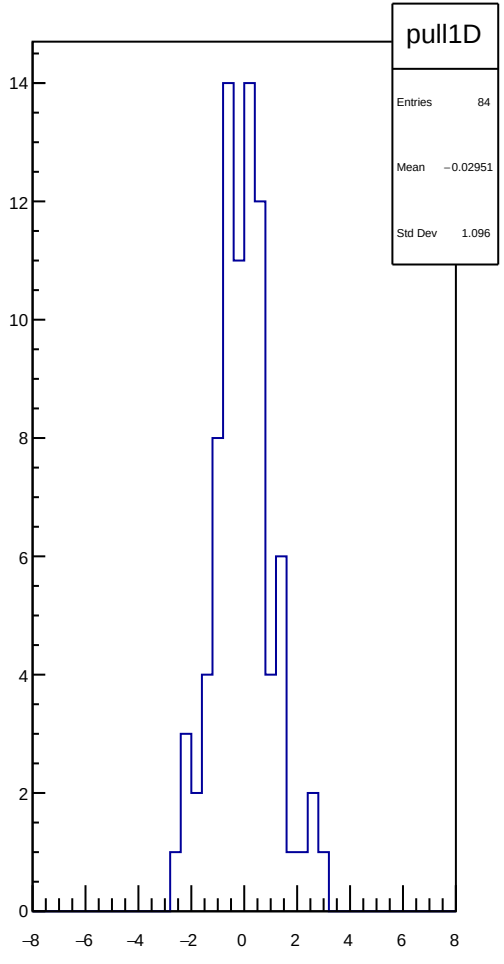

pull1D
Entries 84
Mean 0.02235
Std Dev 1.026

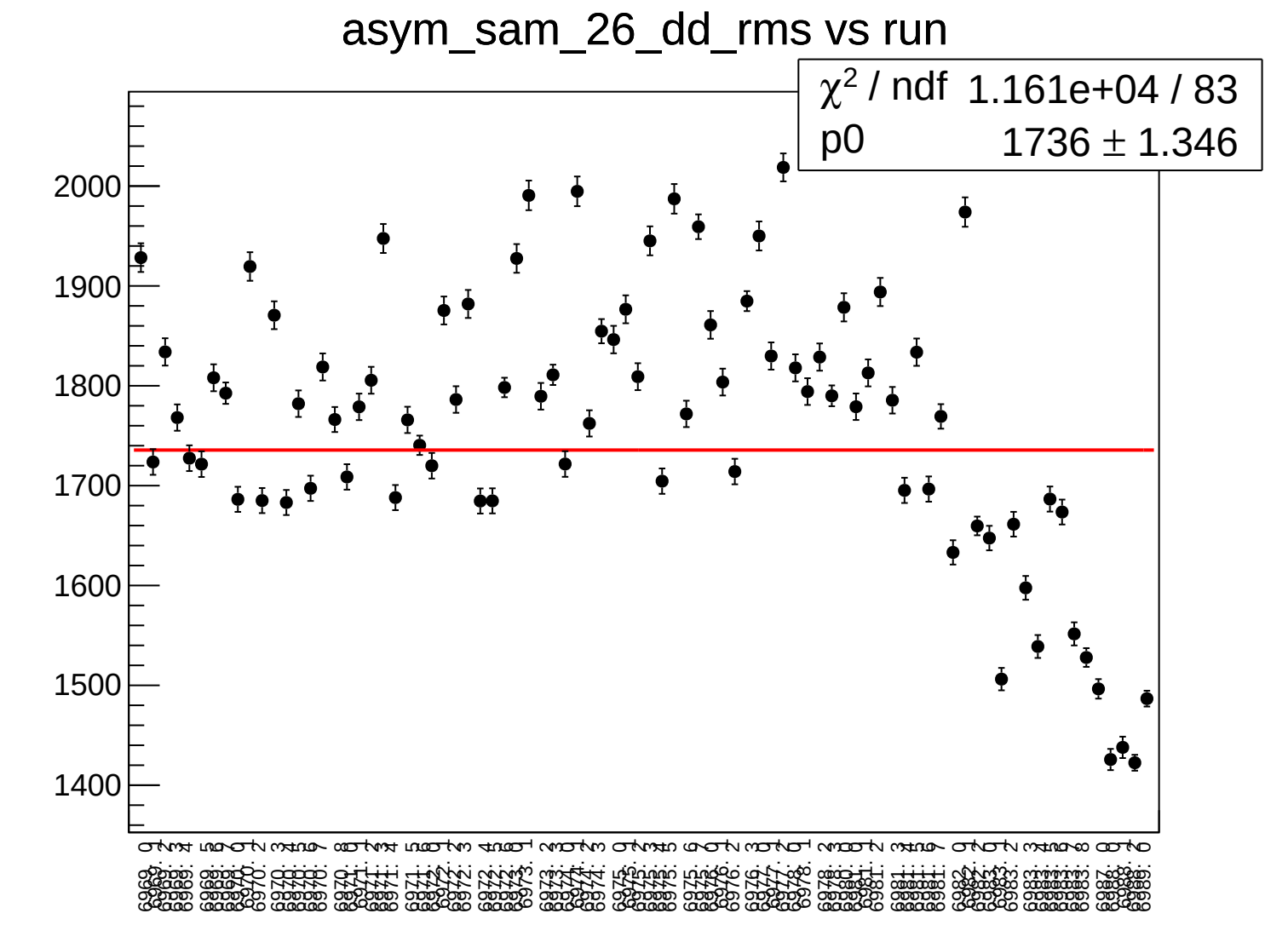

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 315.2 / 83
p0 219.9 ± 0.17
230
228
226
224
222
220
218
216
214
212

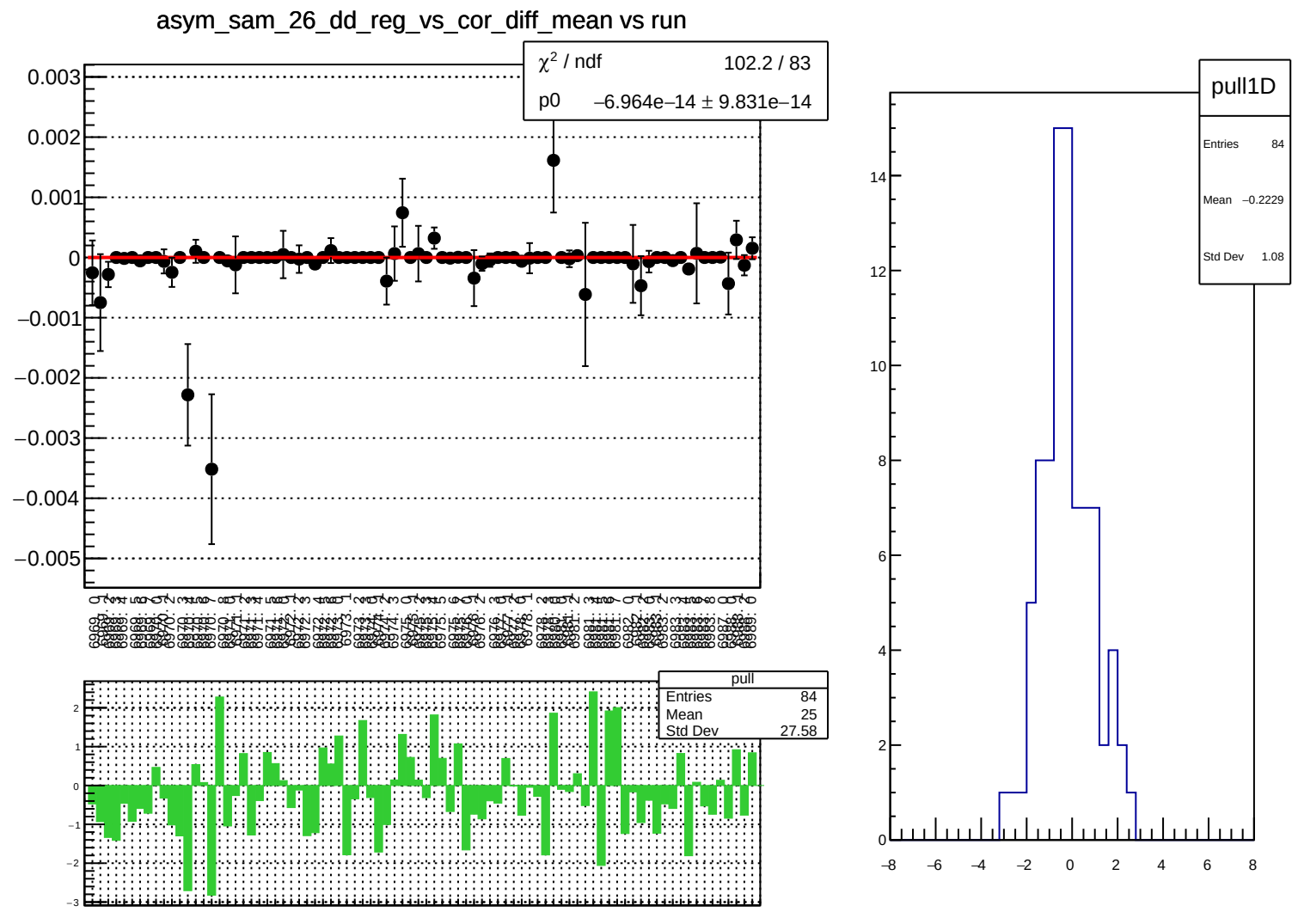

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.73 / 83
p0 2915 ± 1934
pull
Entries 84
Mean −176.1
Std Dev 0
pull1D
Entries 84
Mean 0.03151
Std Dev 1.073

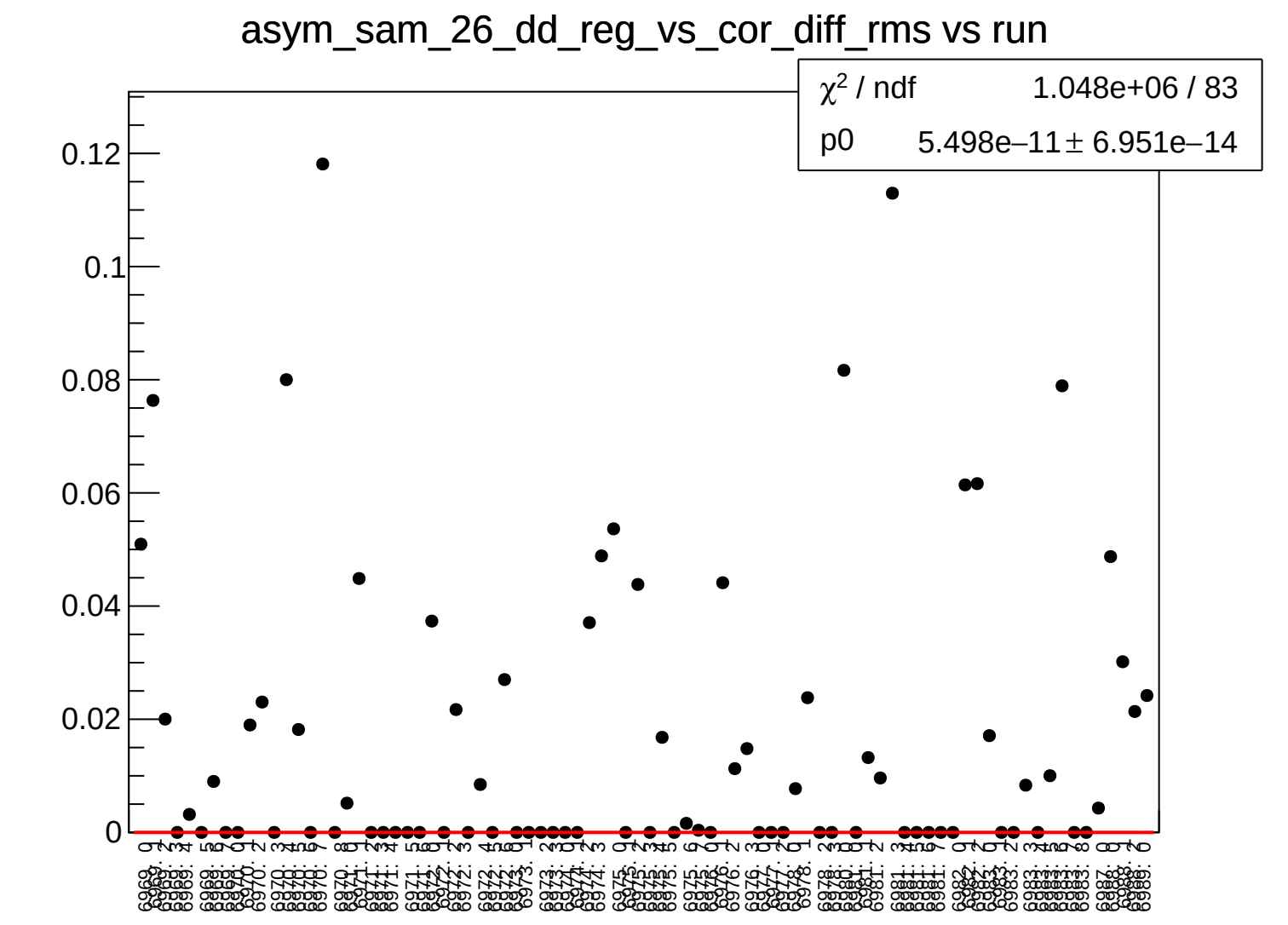

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.143e+04 / 83
p0 1763 ± 1.367
2100
2000
1900
1800
1700
1600
1500
1400

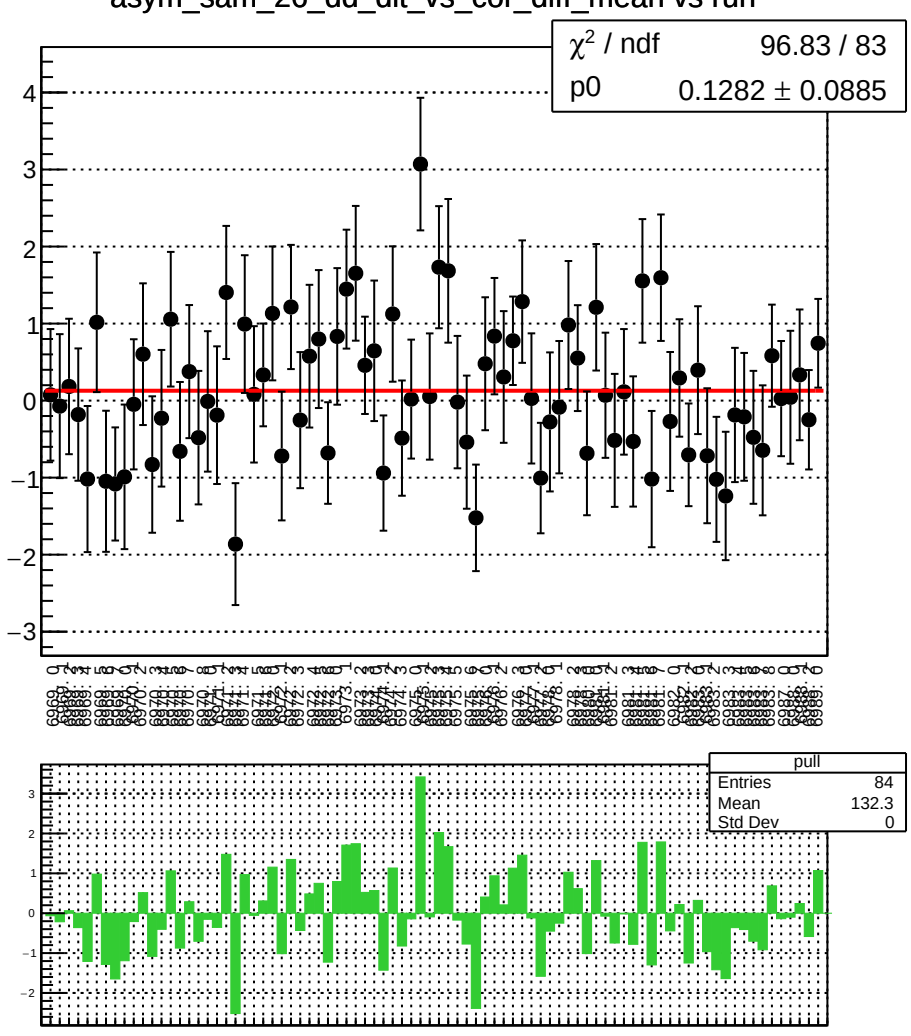

asym_sam_26_dd_mean vs run
χ² / ndf 101 / 83
p0 −3286 ± 1904
pull
Entries 84
Mean −192.1
Std Dev 0

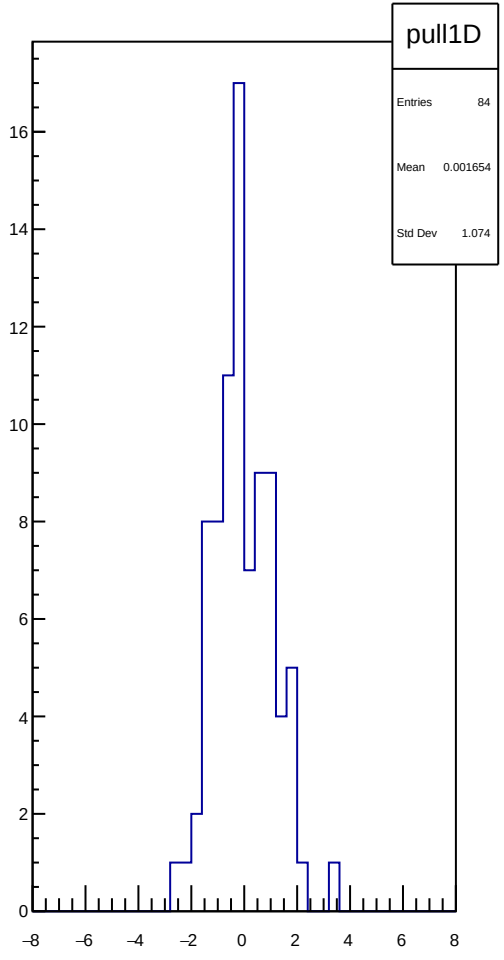

pull1D
Entries 84
Mean −0.02951
Std Dev 1.096

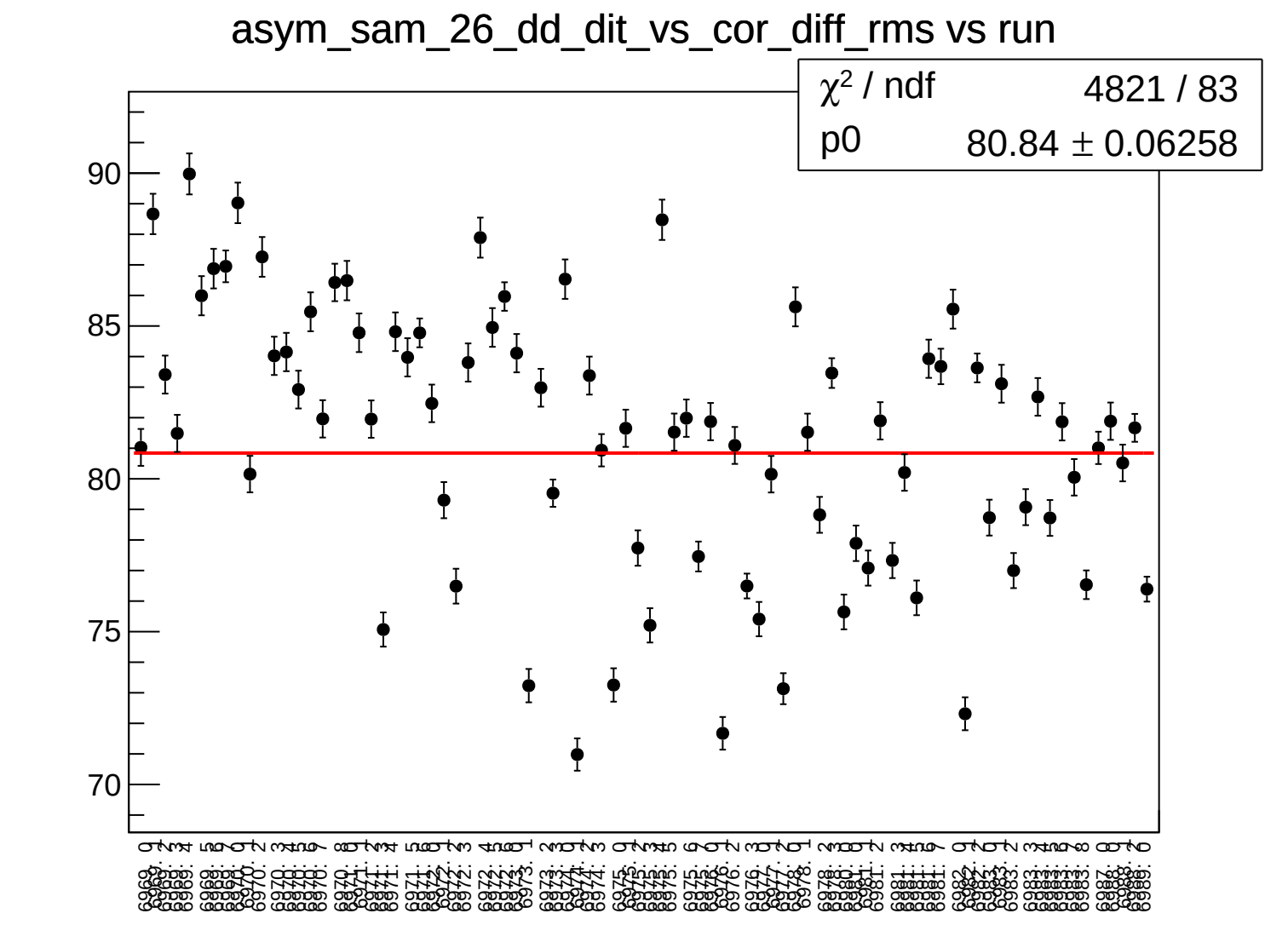

asym_sam_26_dd_rms vs run
χ² / ndf 1.161e+04 / 83
p0 1736 ± 1.346
2000
1900
1800
1700
1600
1500
1400

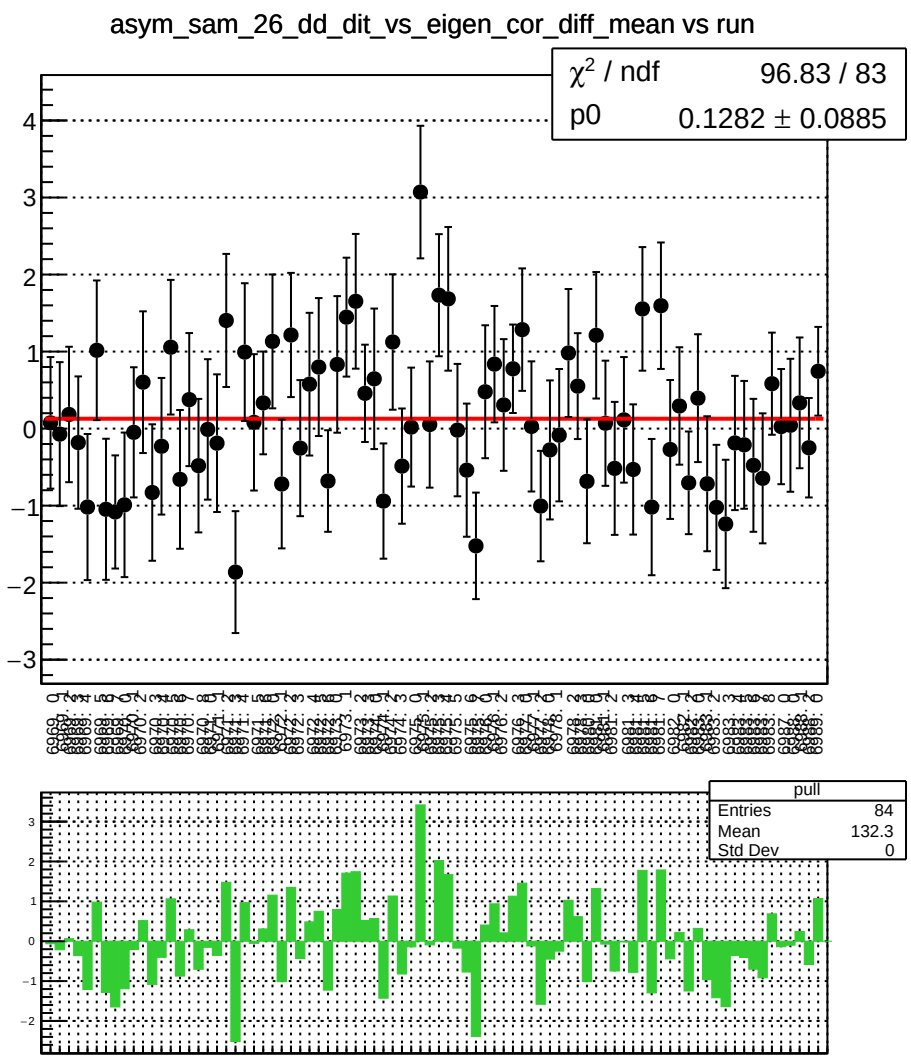

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 83
p0 −6.964e−14 ± 9.831e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
pull
Entries 84
Mean 25
Std Dev 27.58
pull1D
Entries 84
Mean −0.2229
Std Dev 1.08

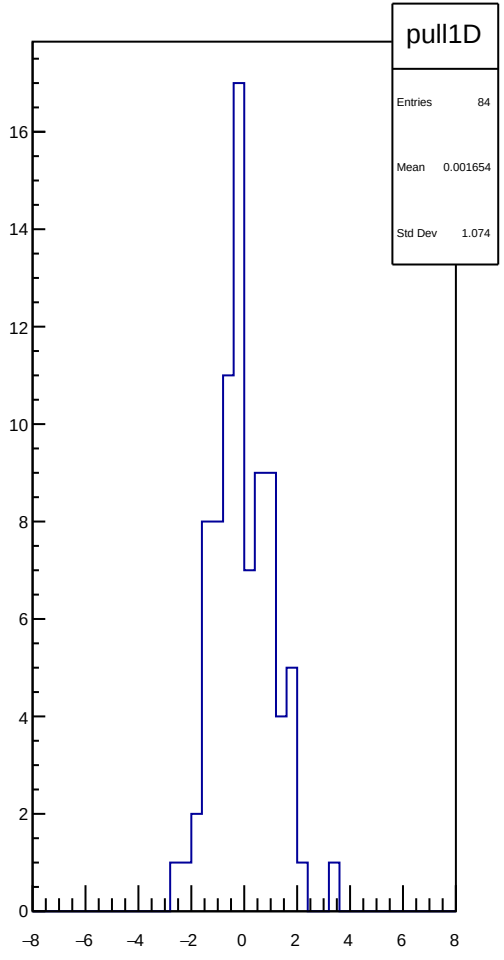

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.048e+06 / 83
p0 5.498e−11 ± 6.951e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

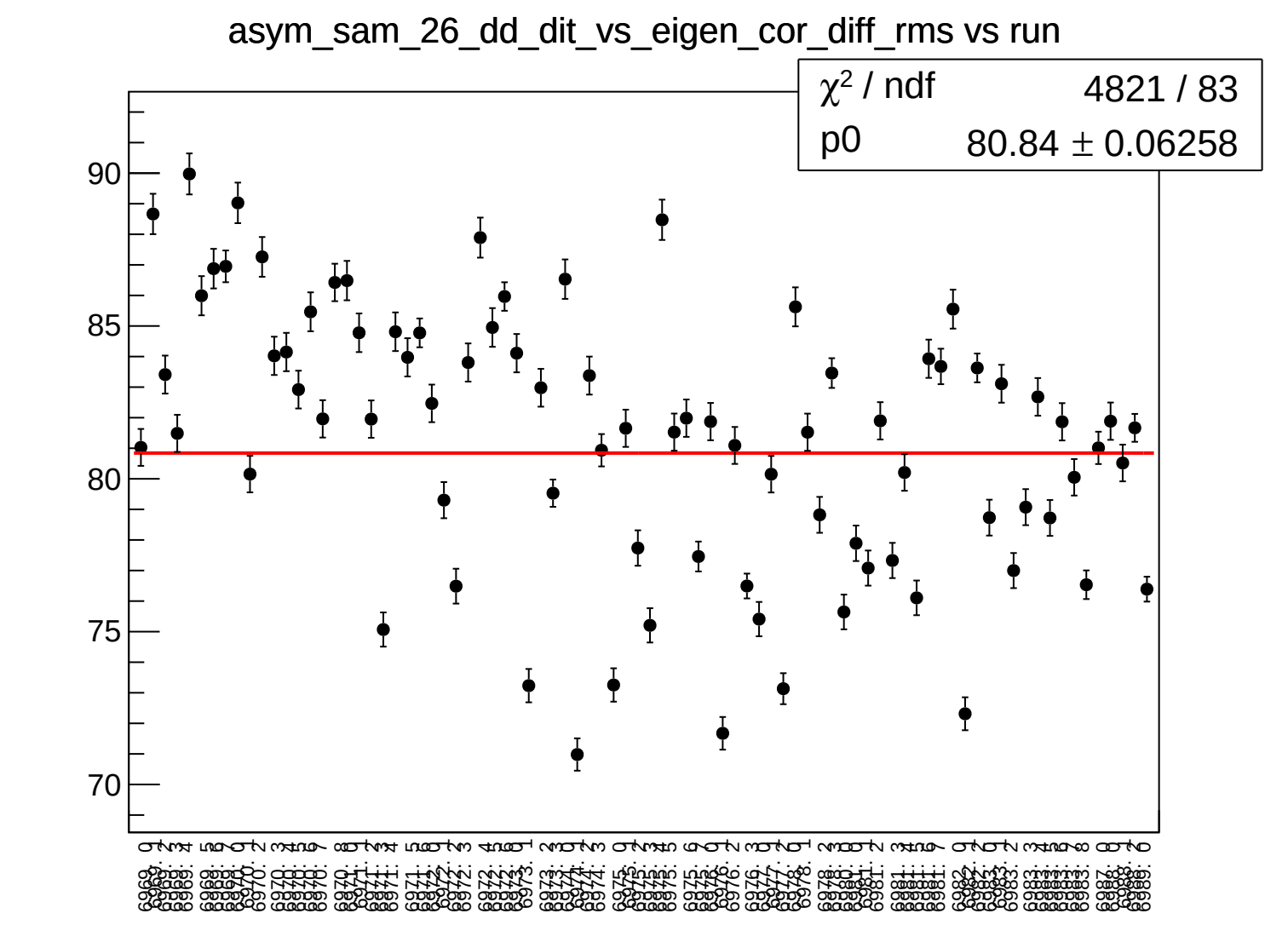

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.83 / 83
p0 0.1282 ± 0.0885
pull
Entries 84
Mean 132.3
Std Dev 0

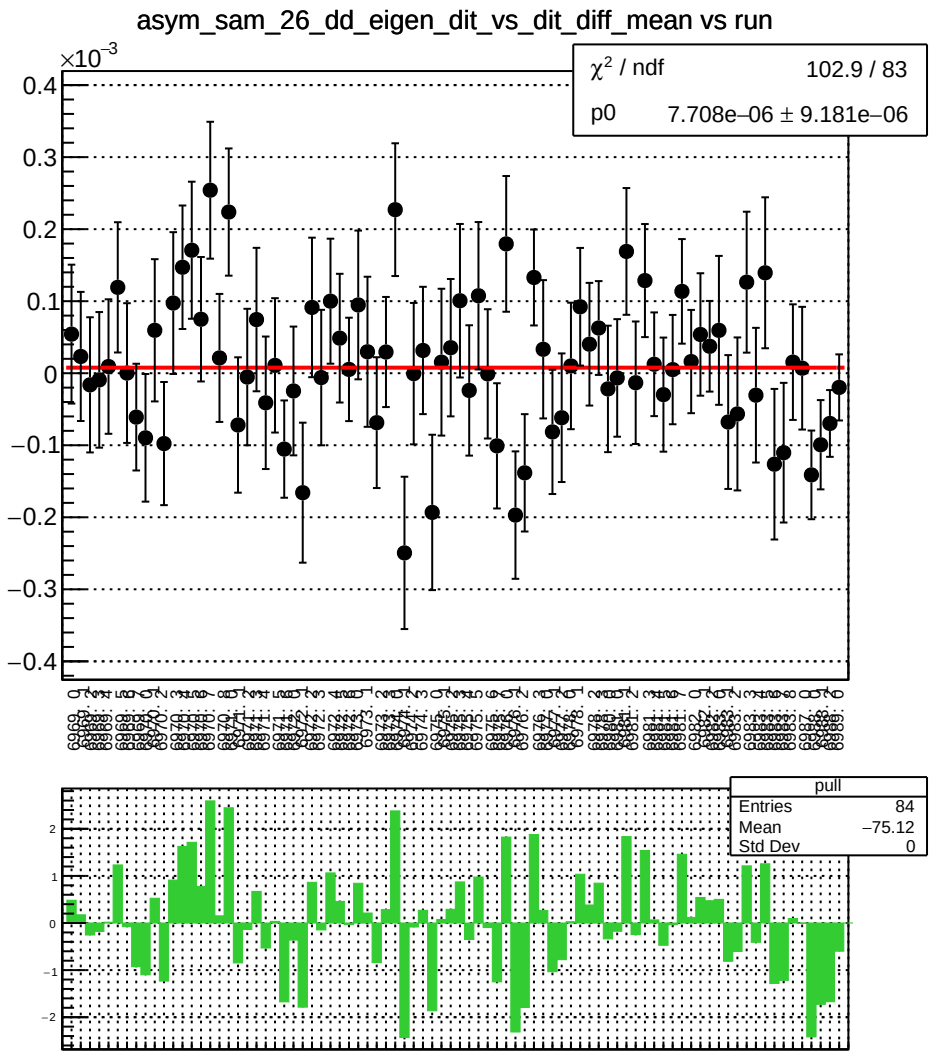

pull1D
Entries 84
Mean 0.001654
Std Dev 1.074

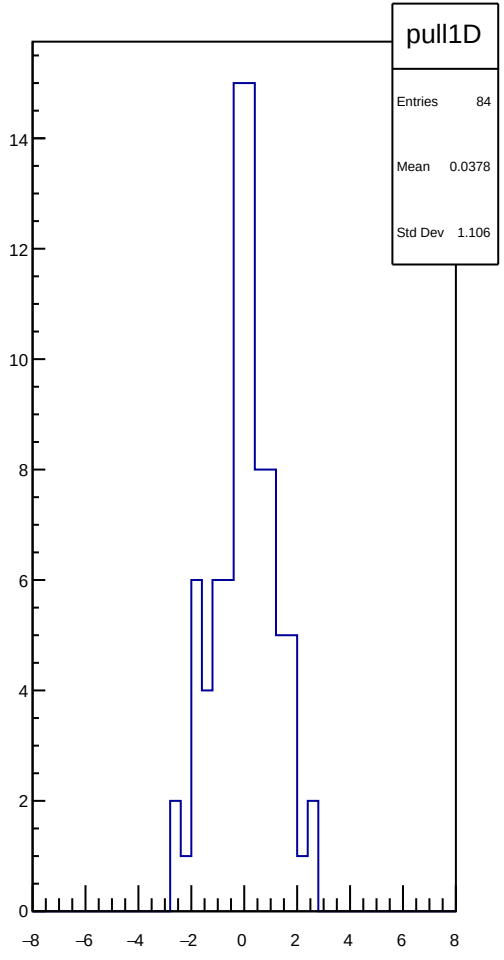

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4821 / 83
p0 80.84 ± 0.06258
90
85
80
75
70

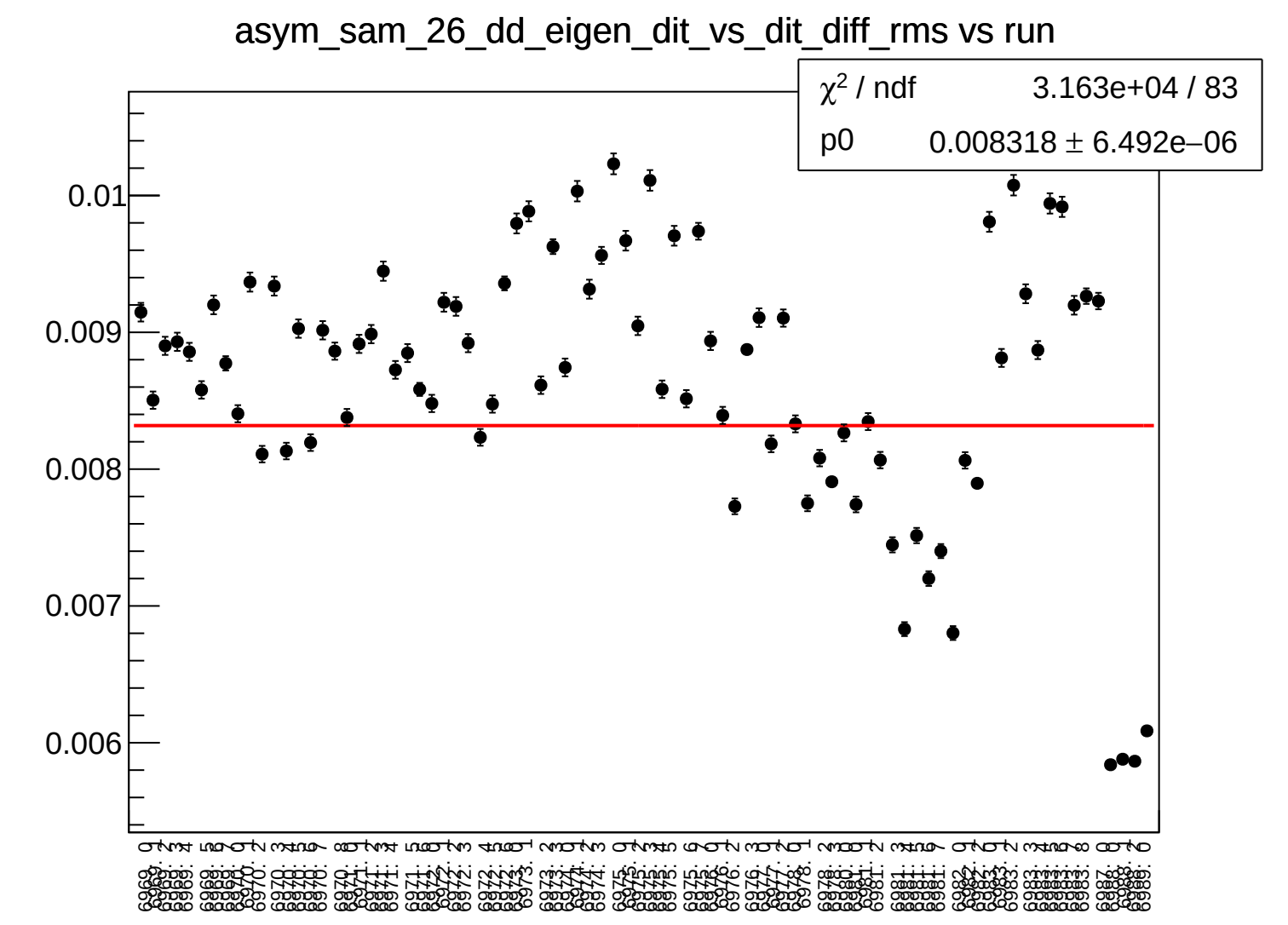

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.83 / 83
p0 0.1282 ± 0.0885
pull
Entries 84
Mean 132.3
Std Dev 0

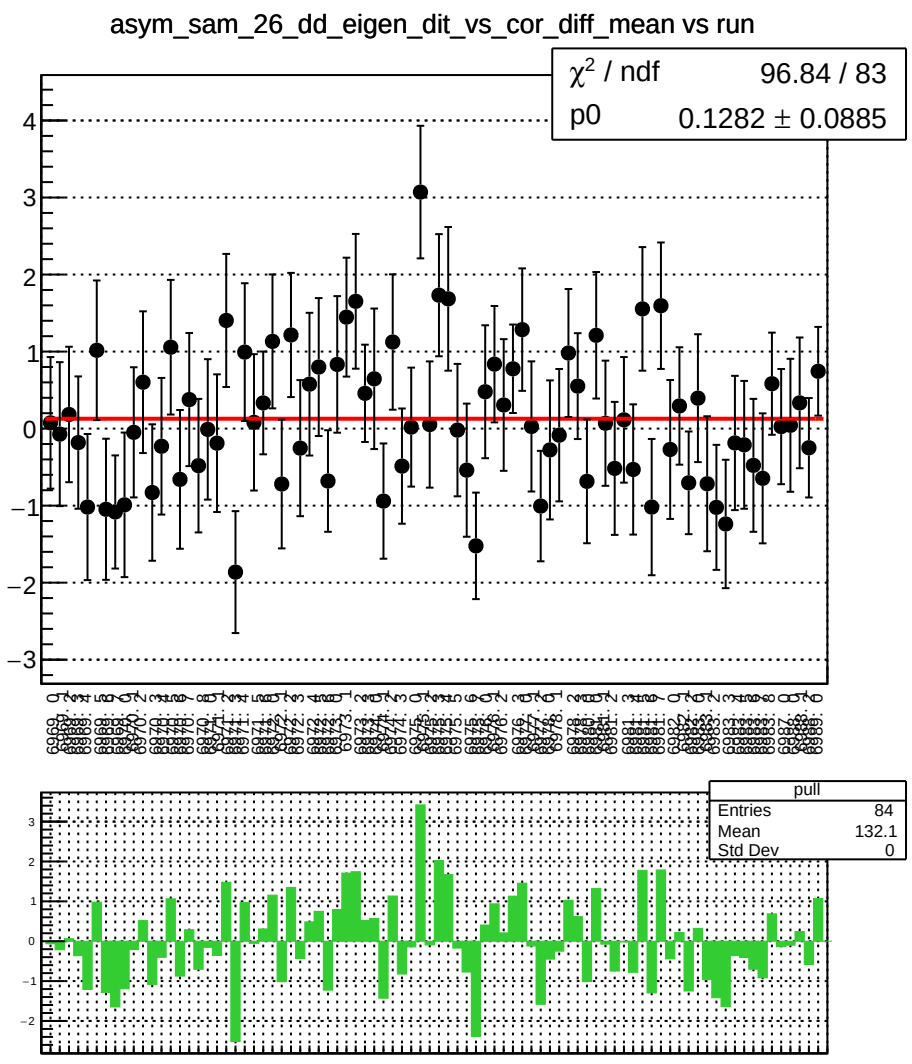

pull1D
Entries 84
Mean 0.001654
Std Dev 1.074

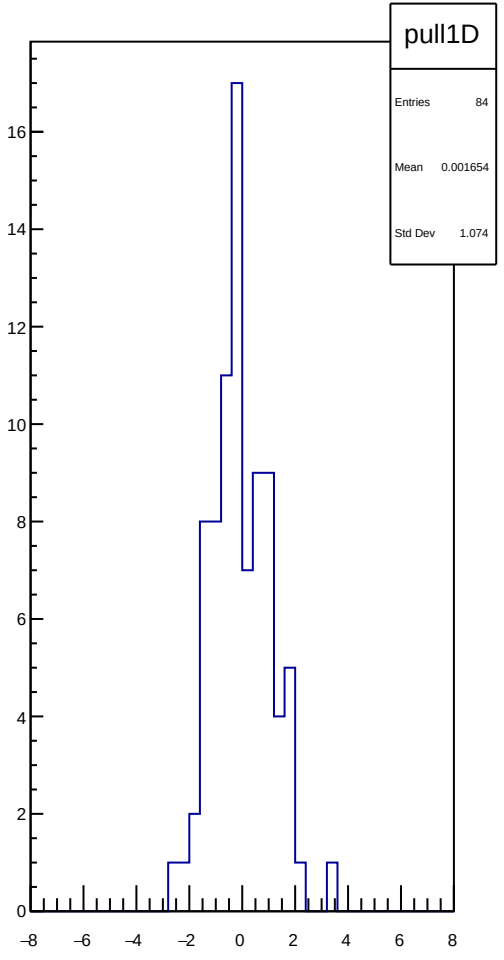

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4821 / 83
p0 80.84 ± 0.06258
90
85
80
75
70

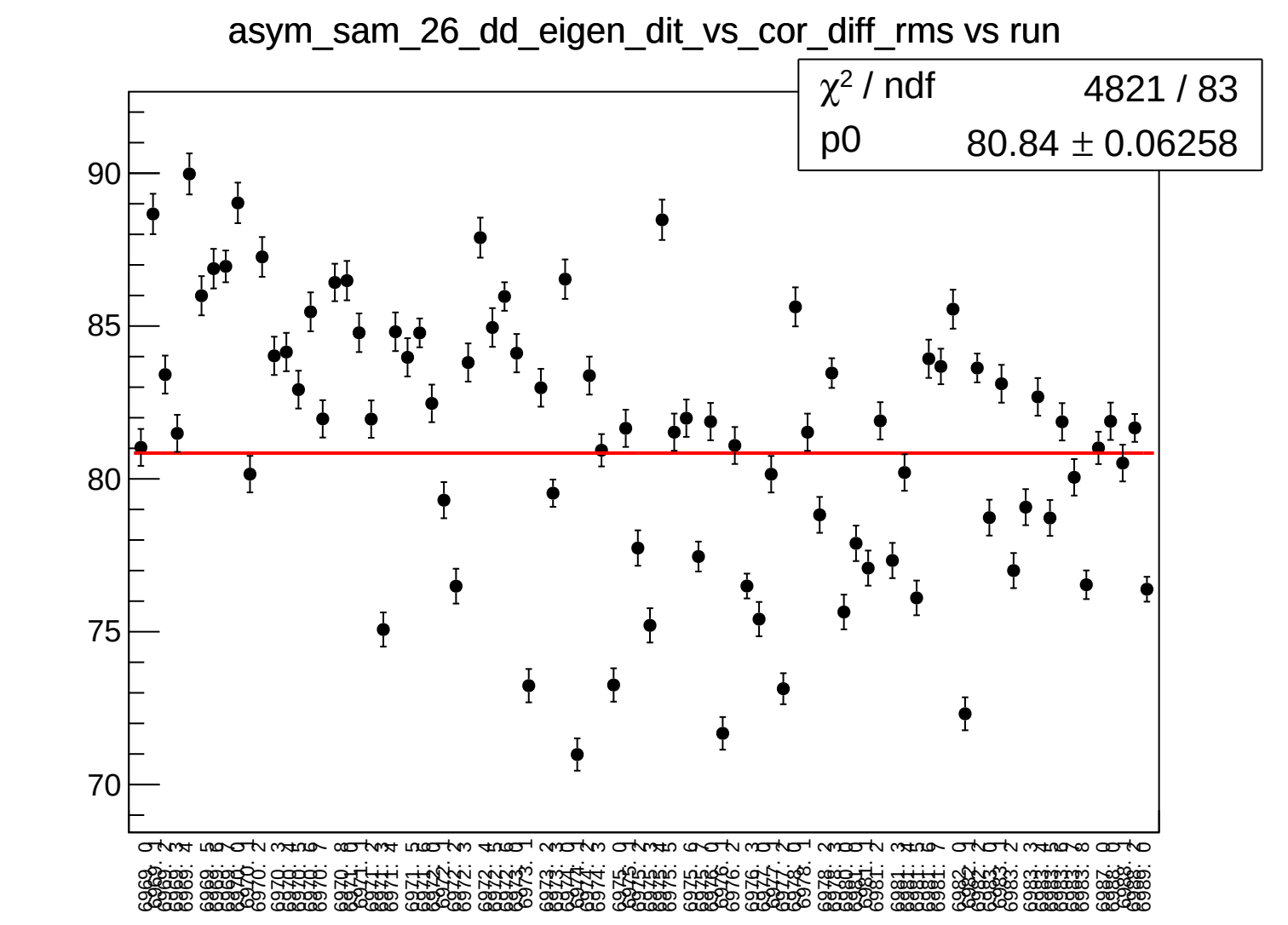

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.9 / 83
p0 7.708e−06 ± 9.181e−06
pull
Entries 84
Mean −75.12
Std Dev 0

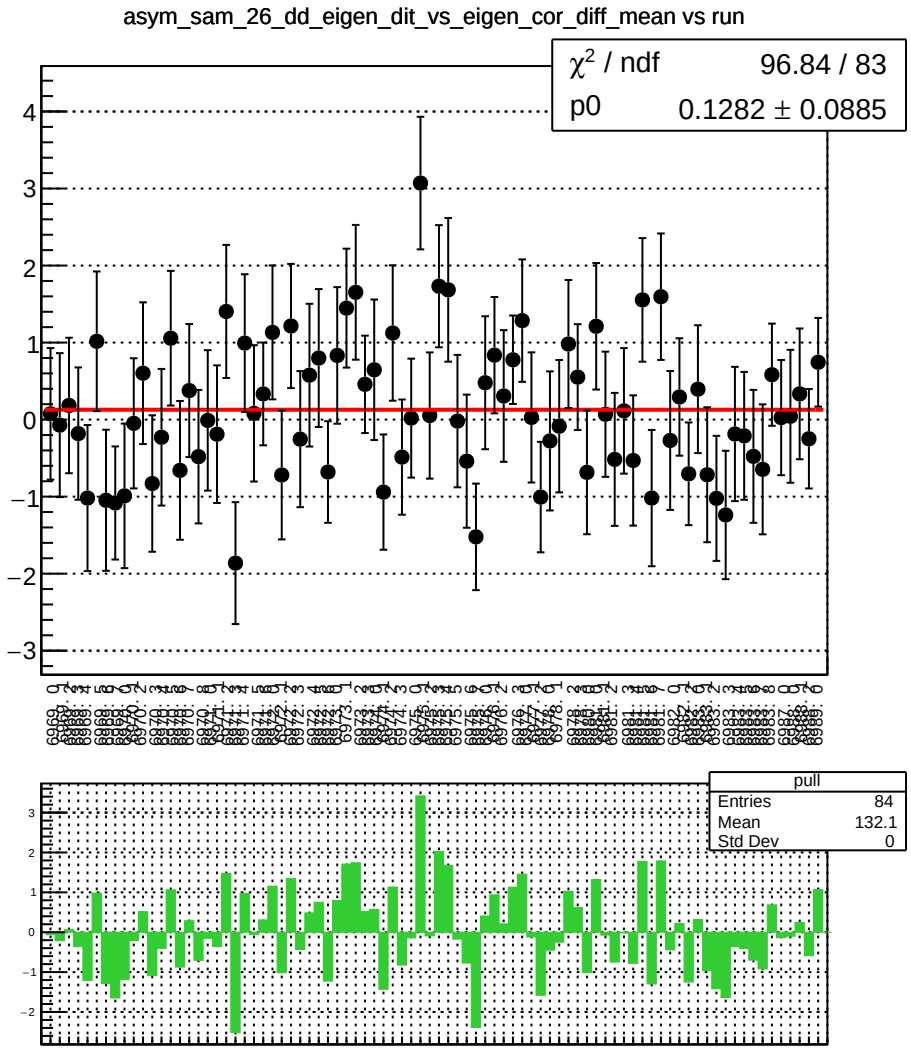

pull1D
Entries 84
Mean 0.0378
Std Dev 1.106

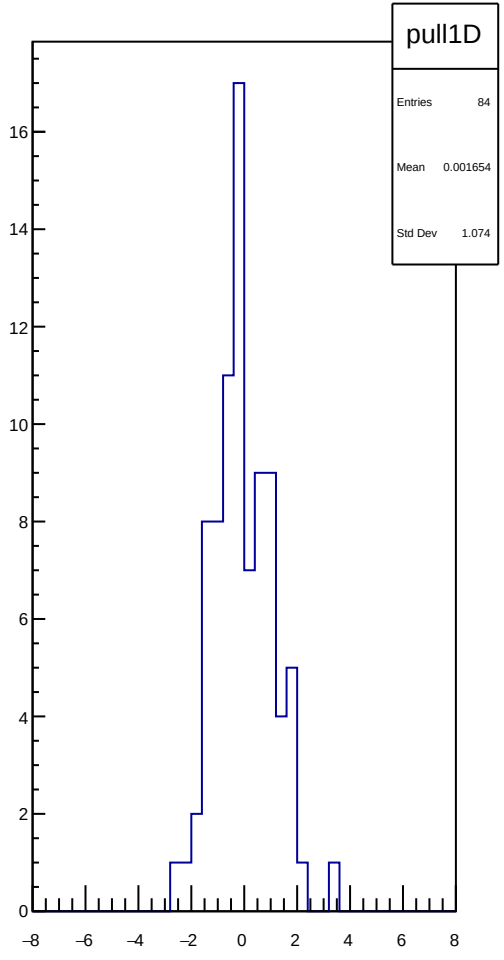

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.163e+04 / 83
p0 0.008318 ± 6.492e−06
0.01
0.009
0.008
0.007
0.006

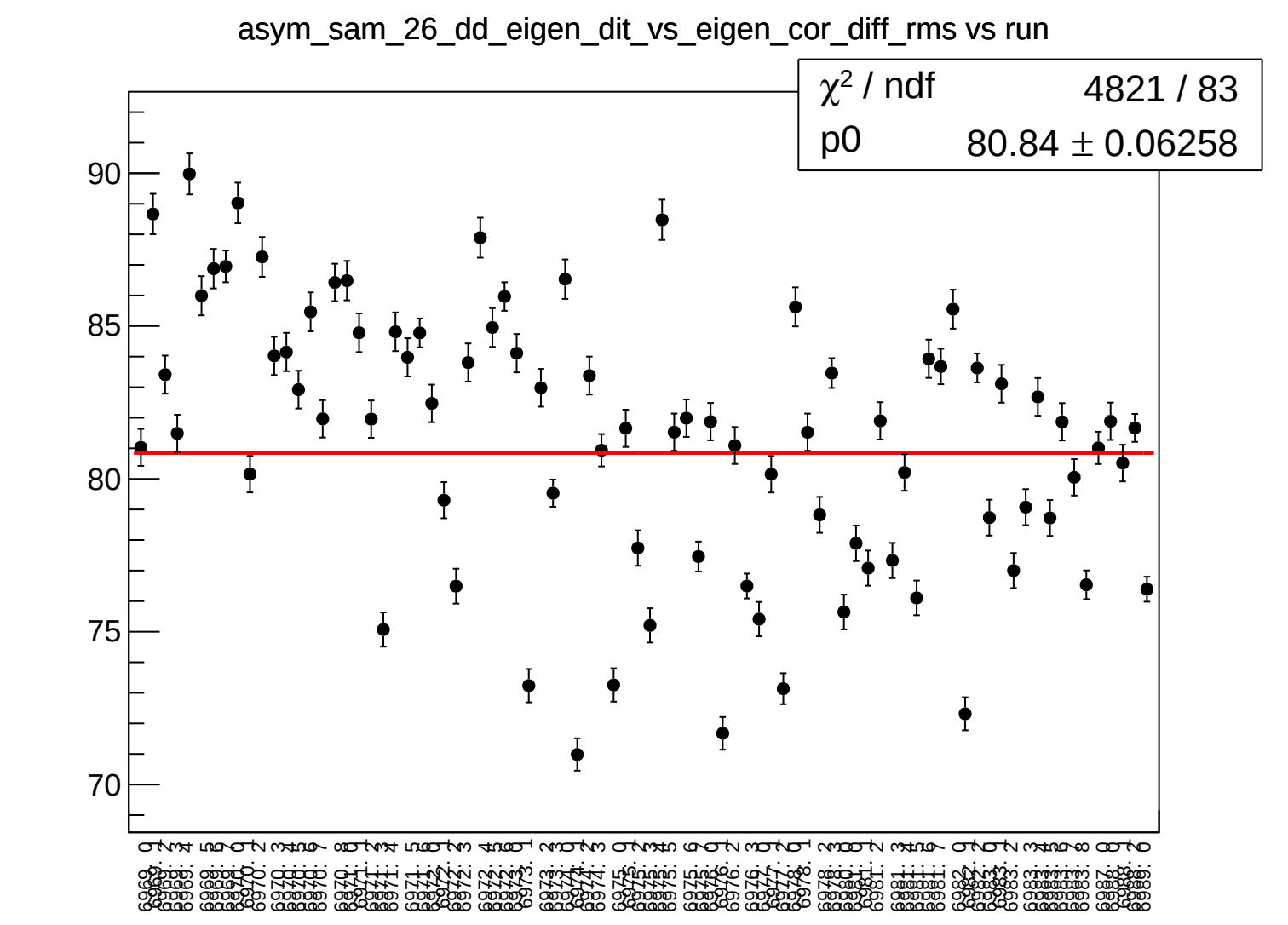

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.84 / 83
p0 0.1282 ± 0.0885
pull
Entries 84
Mean 132.1
Std Dev 0

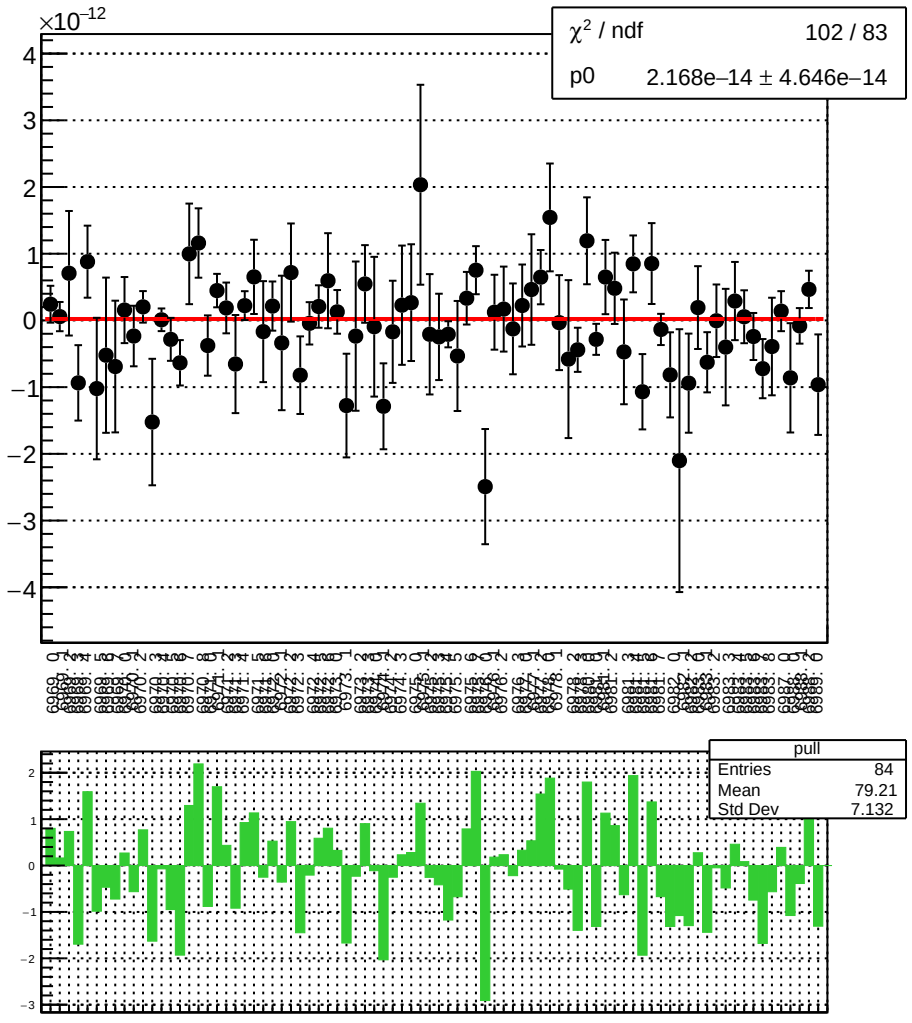

pull1D
Entries 84
Mean 0.001654
Std Dev 1.074

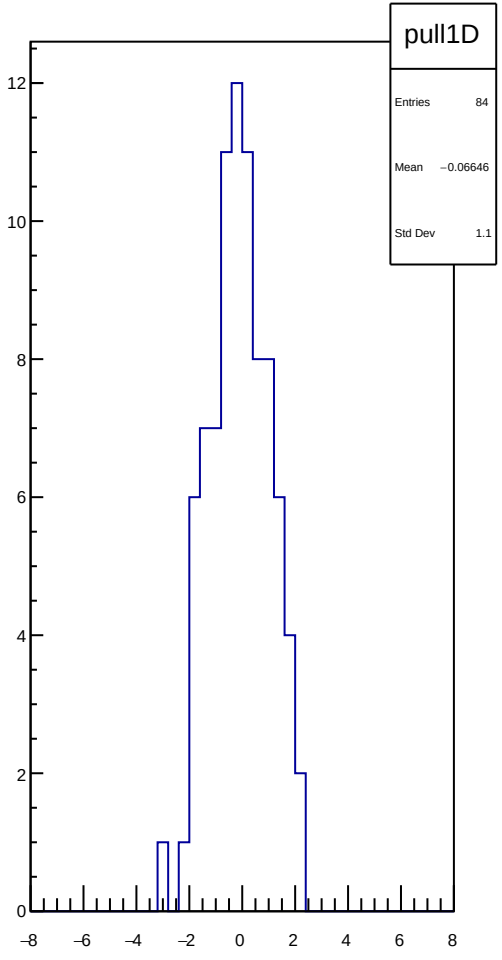

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4821 / 83
p0 80.84 ± 0.06258
90
85
80
75
70

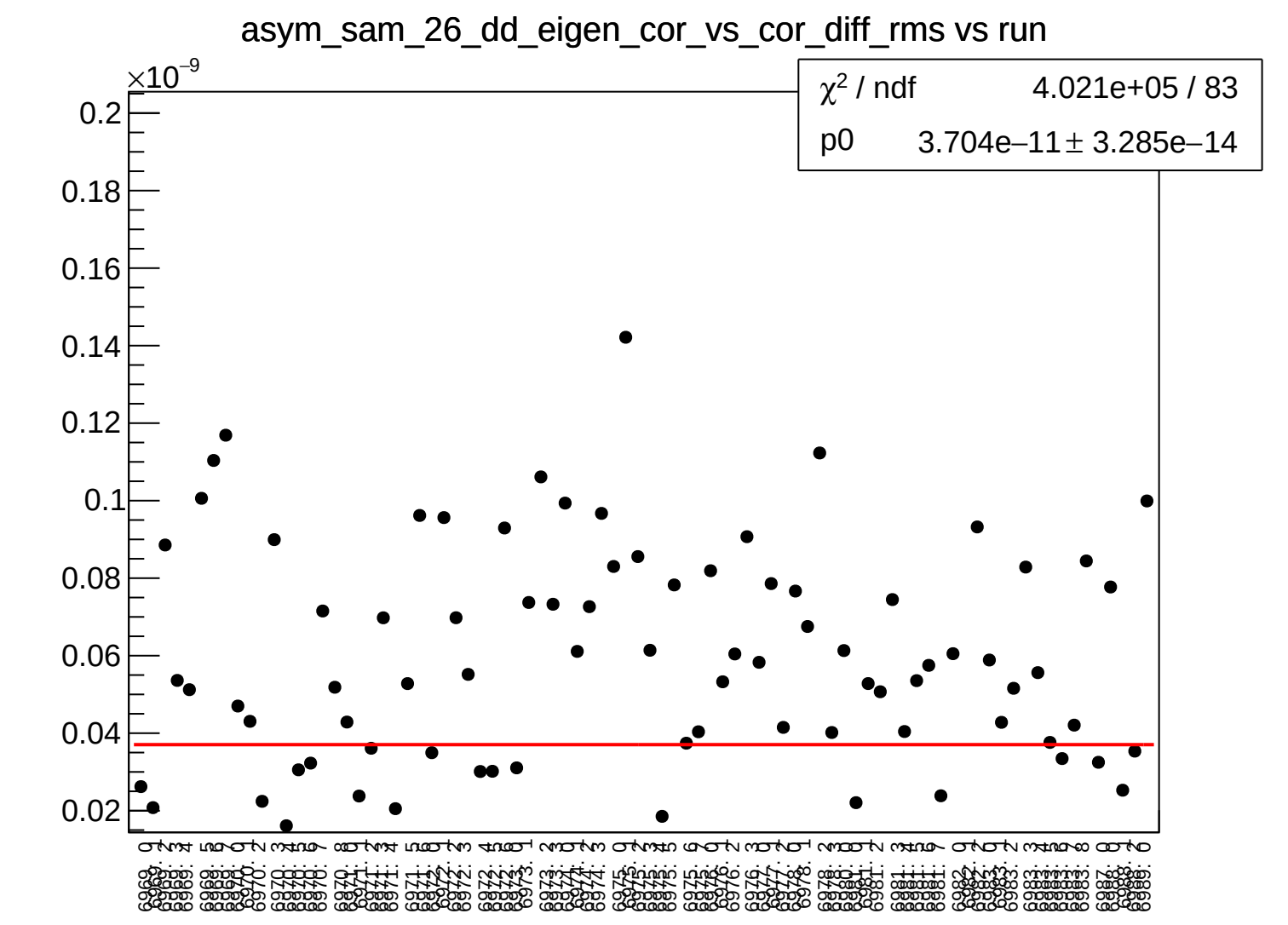

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.84 / 83
p0 0.1282 ± 0.0885
pull
Entries 84
Mean 132.1
Std Dev 0

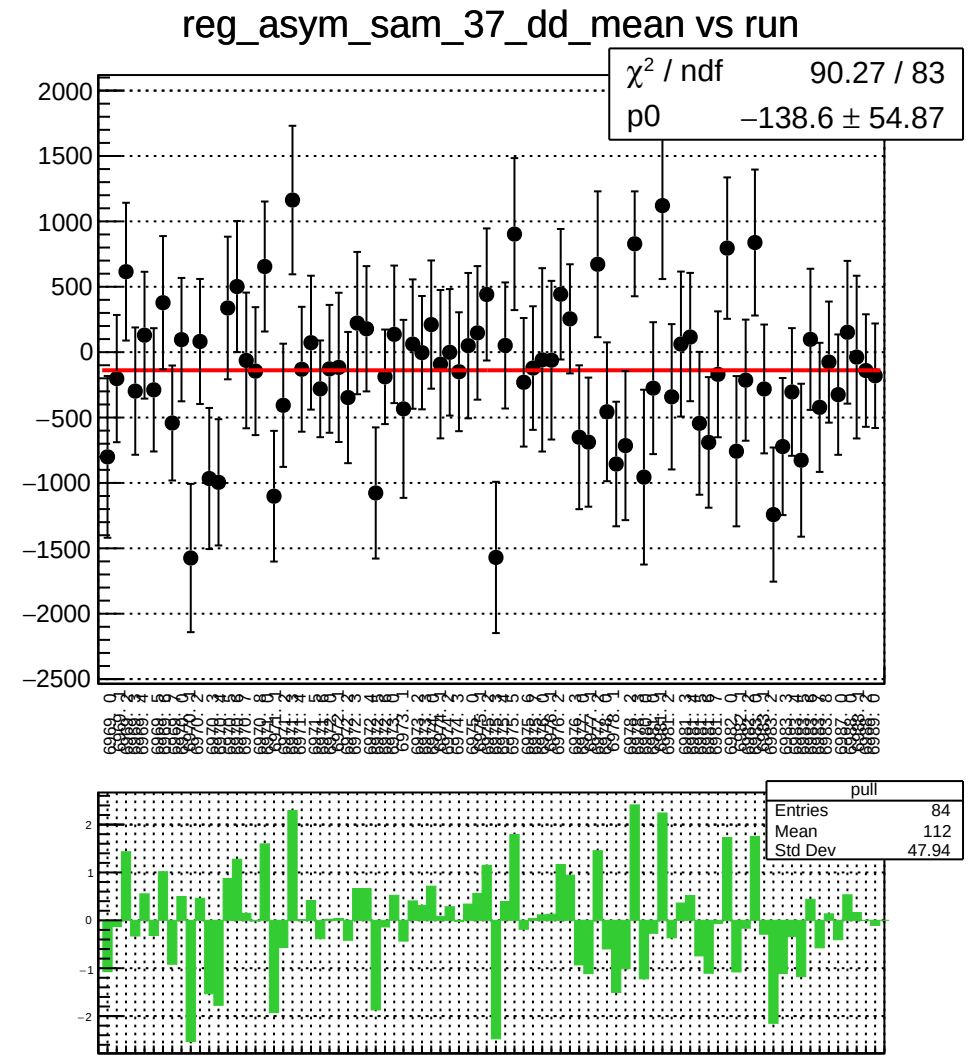

pull1D
Entries 84
Mean 0.001654
Std Dev 1.074

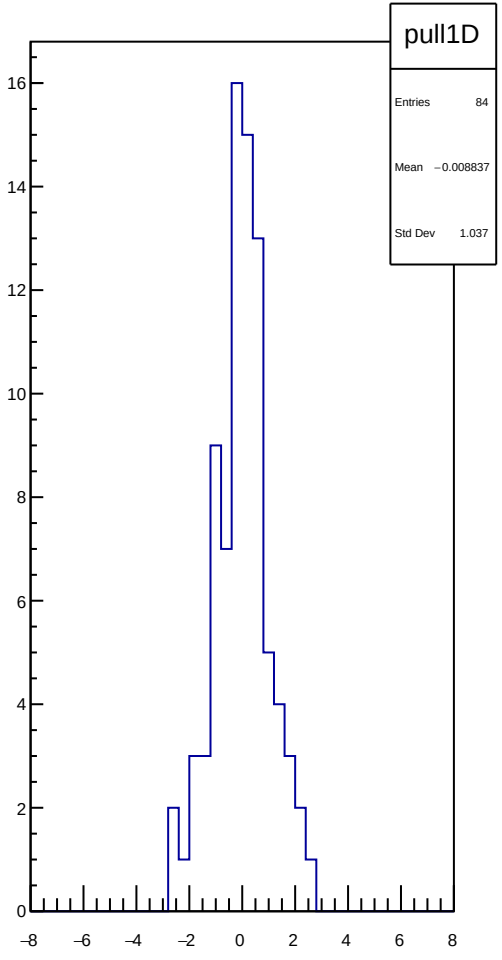

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4821 / 83
p0 80.84 ± 0.06258
90
85
80
75
70

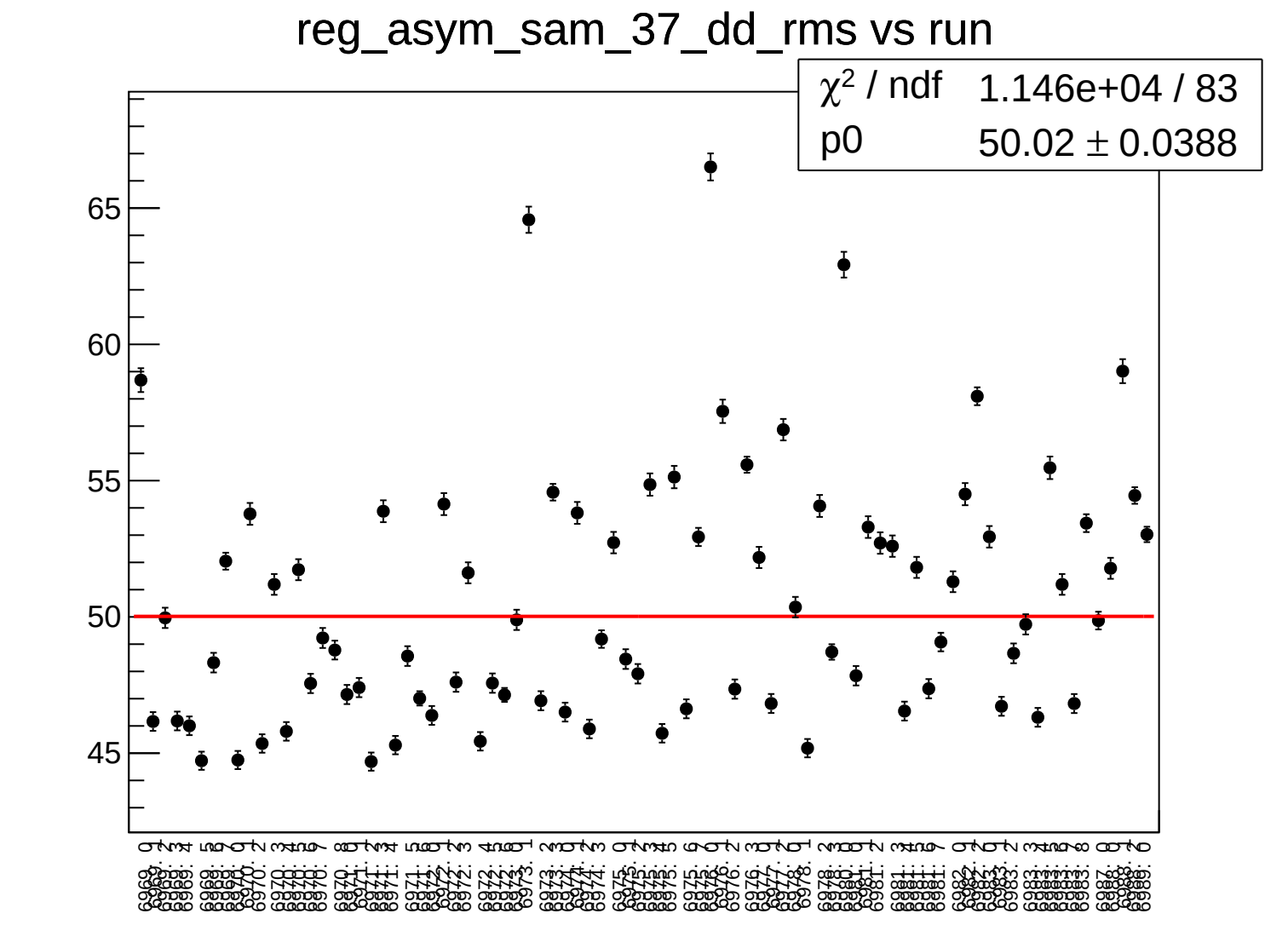

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102 / 83
p0 2.168e−14 ± 4.646e−14
pull
Entries 84
Mean 79.21
Std Dev 7.132

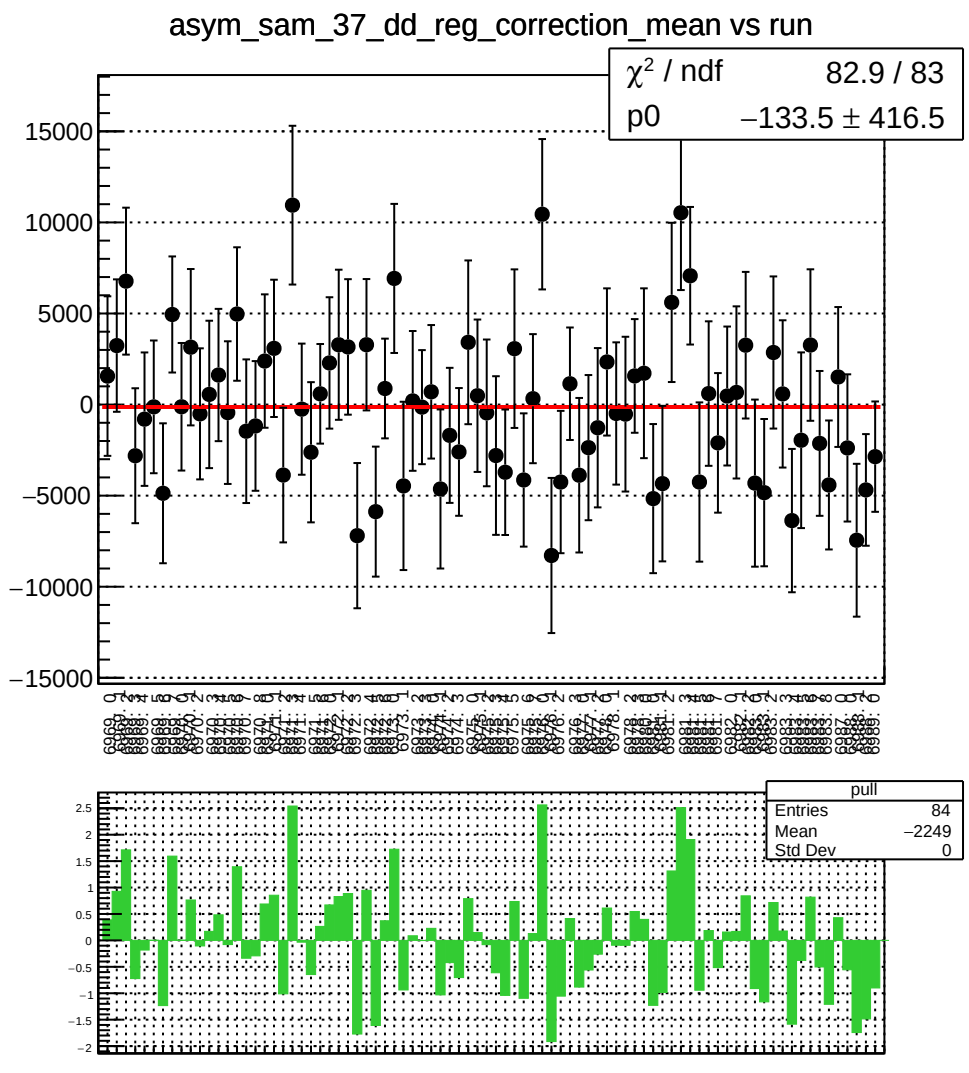

pull1D
Entries 84
Mean −0.06646
Std Dev 1.1

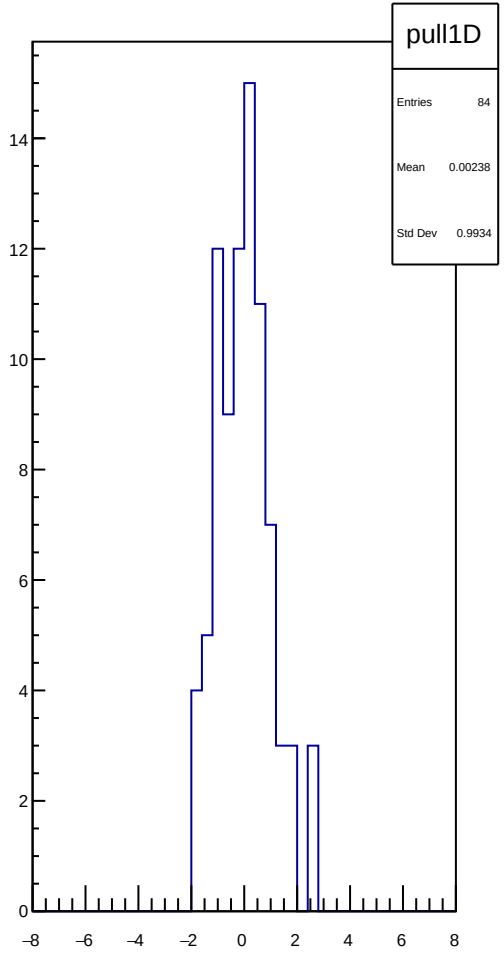

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.021e+05 / 83
p0 3.704e−11 ± 3.285e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

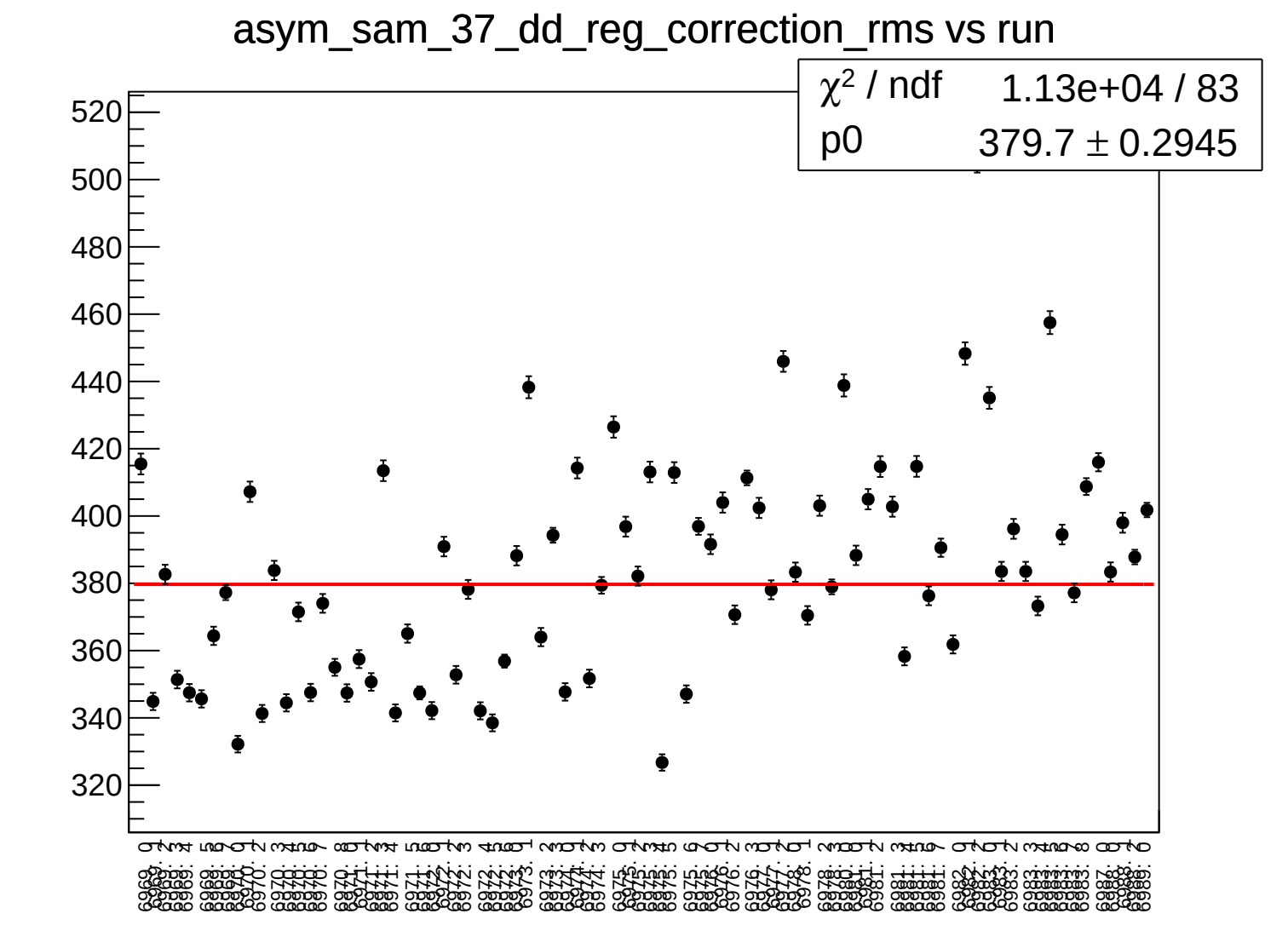

reg_asym_sam_37_dd_mean vs run
χ² / ndf 90.27 / 83
p0 −138.6 ± 54.87
pull
Entries 84
Mean 112
Std Dev 47.94

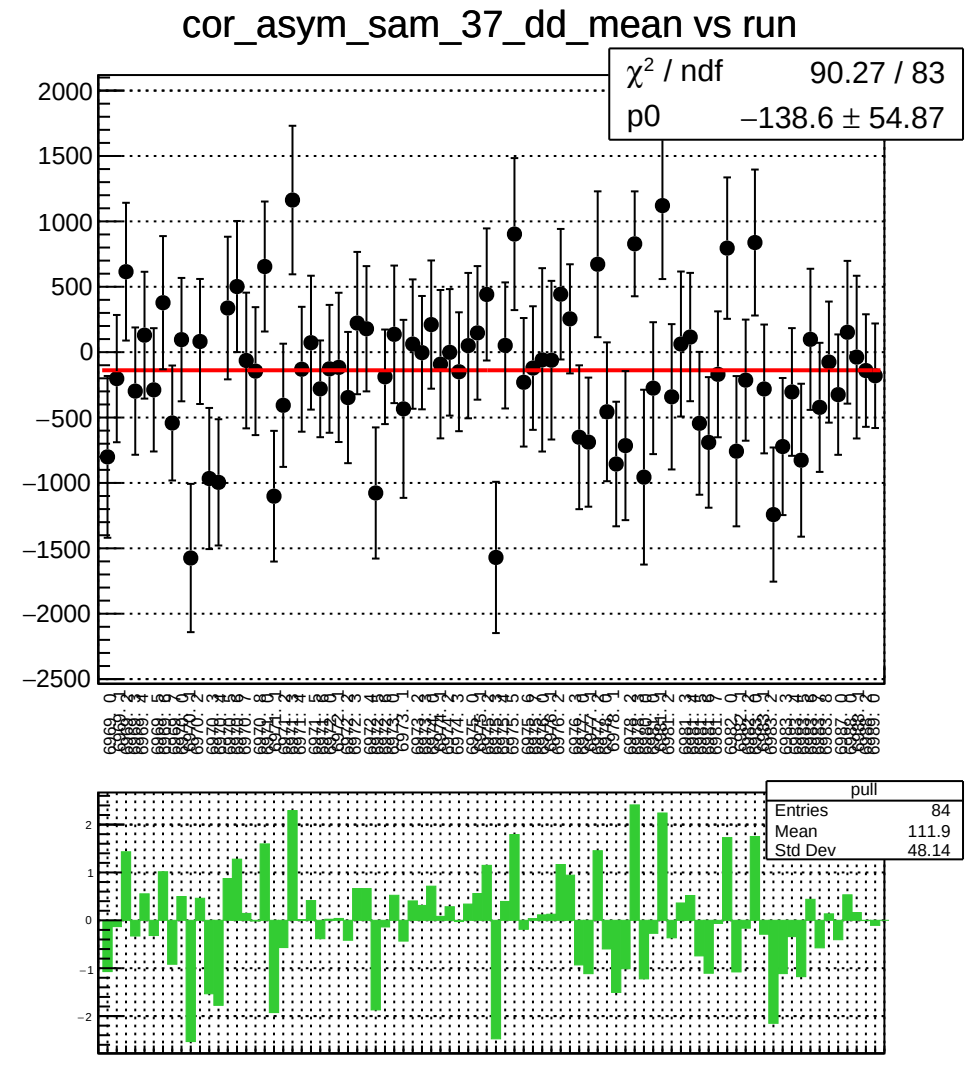

pull1D
Entries 84
Mean −0.008837
Std Dev 1.037

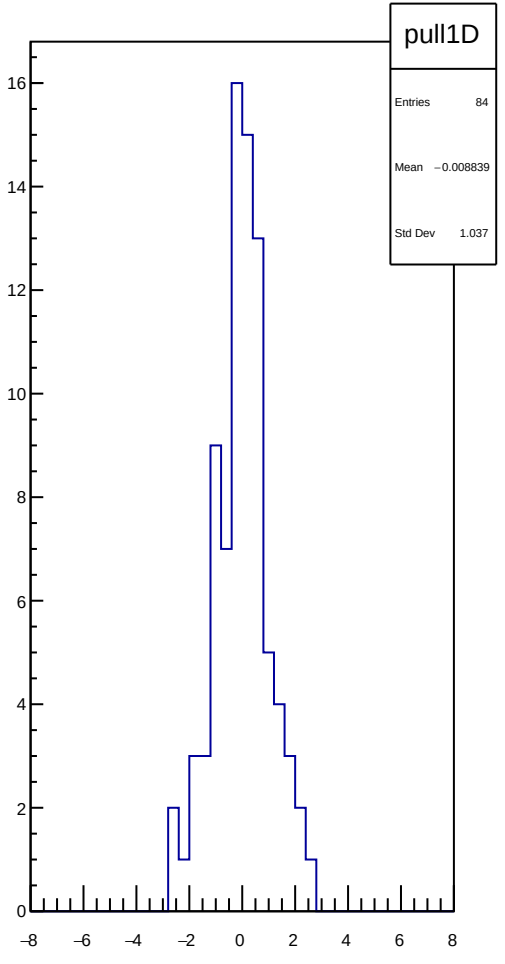

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.146e+04 / 83
p0 50.02 ± 0.0388
65
60
55
50
45

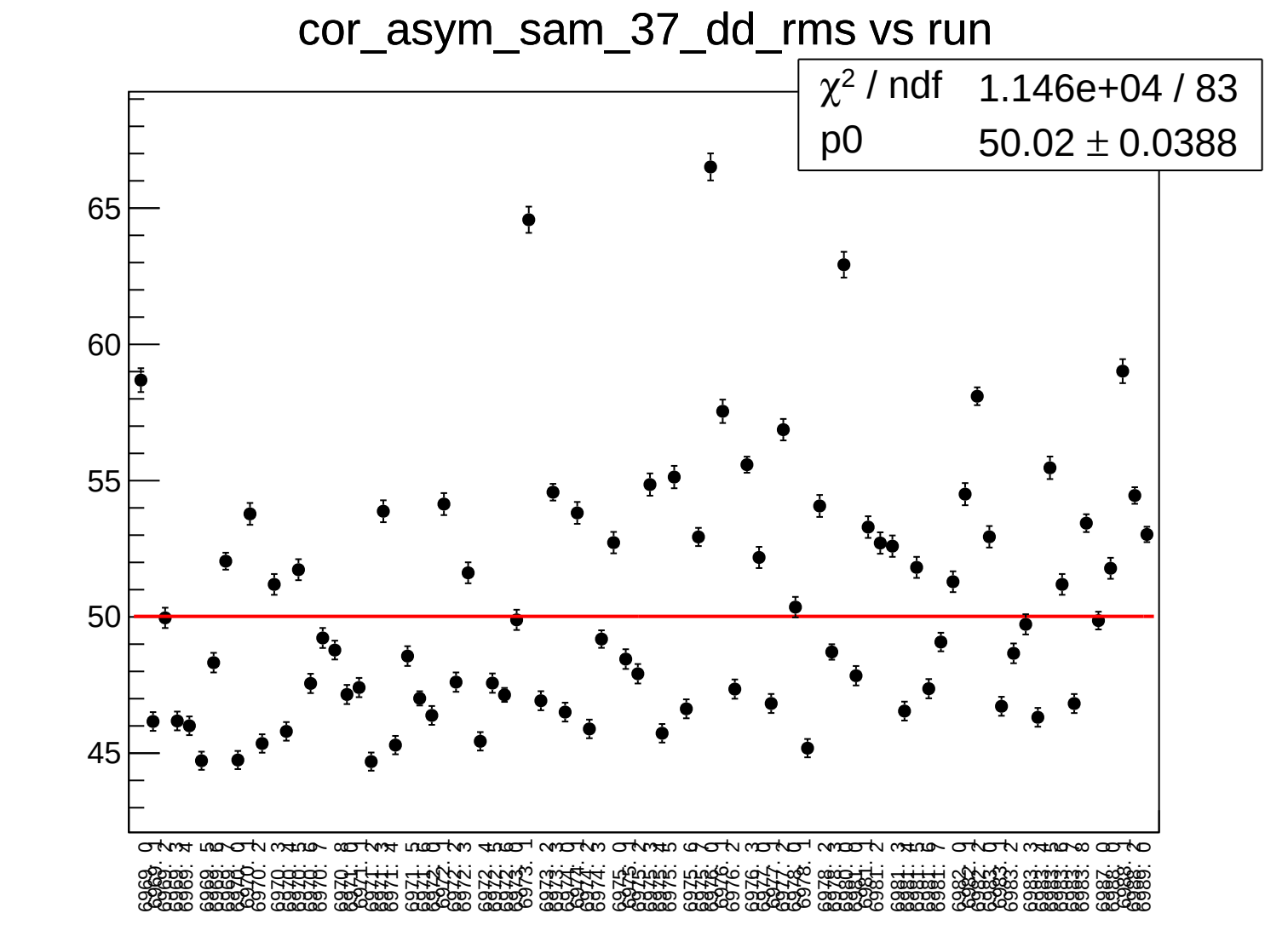

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 82.9 / 83
p0 −133.5 ± 416.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −2249
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

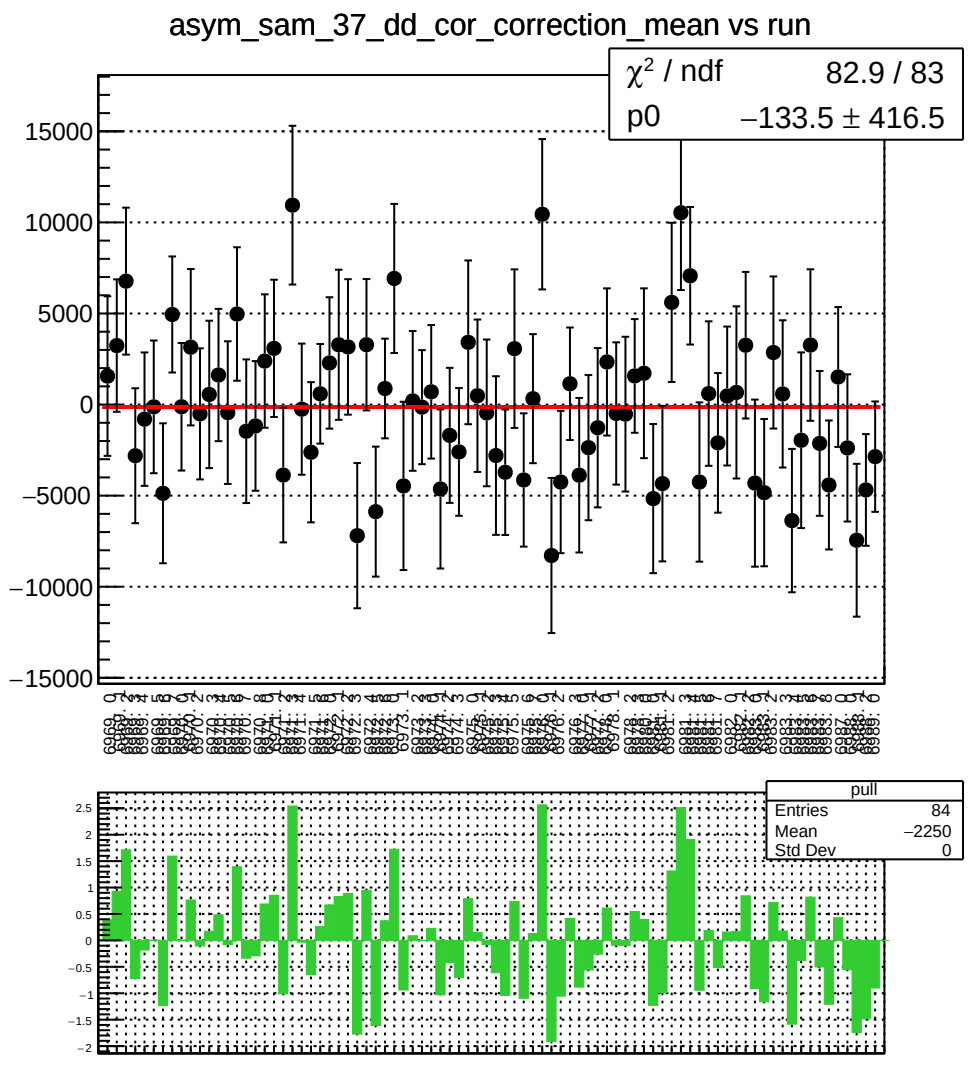

pull1D
Entries 84
Mean 0.00238
Std Dev 0.9934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

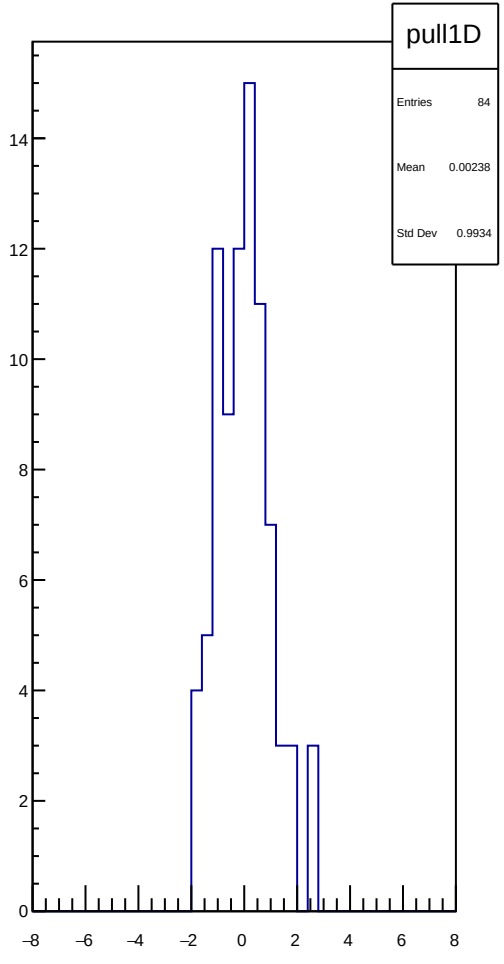

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.13e+04 / 83
p0 379.7 ± 0.2945
520
500
480
460
440
420
400
380
360
340
320

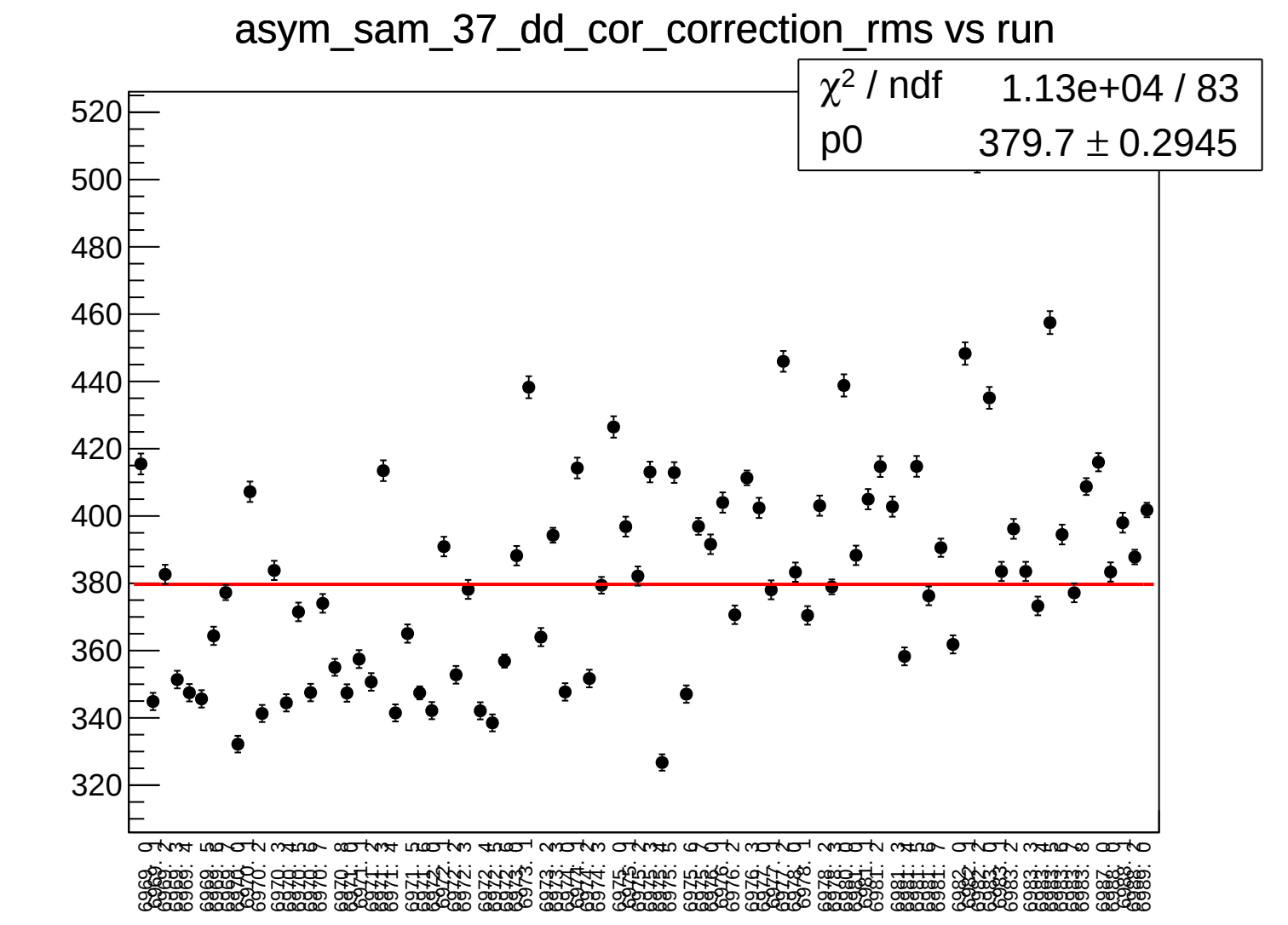

cor_asym_sam_37_dd_mean vs run
χ² / ndf 90.27 / 83
p0 −138.6 ± 54.87
pull
Entries 84
Mean 111.9
Std Dev 48.14

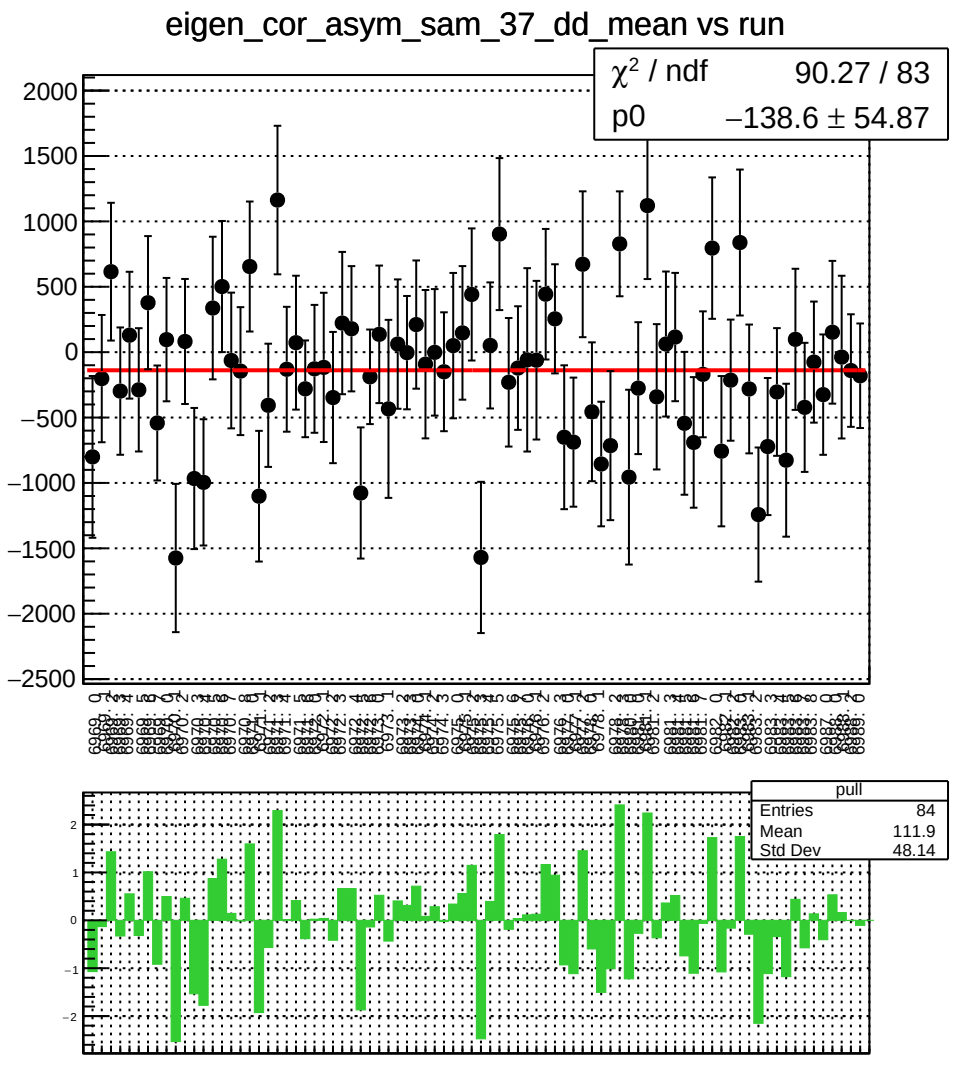

pull1D
Entries 84
Mean −0.008839
Std Dev 1.037

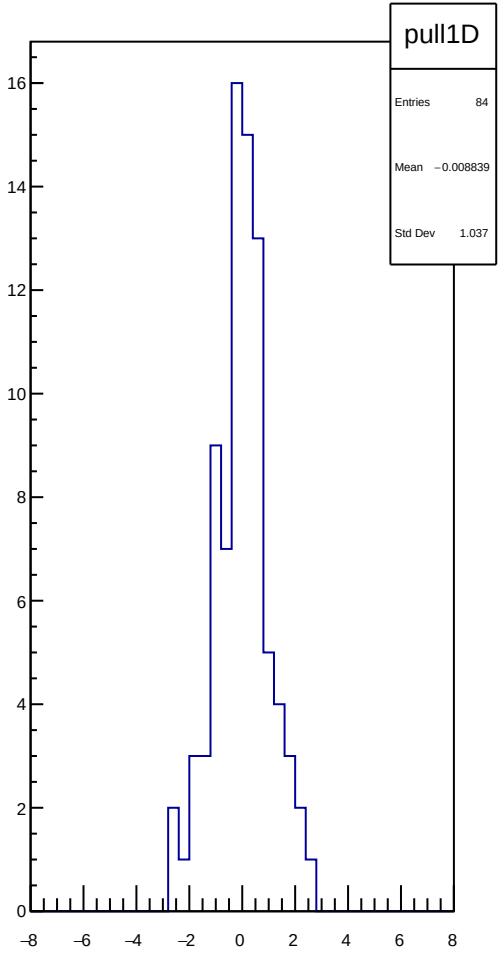

cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.146e+04 / 83
p0 50.02 ± 0.0388
65
60
55
50
45

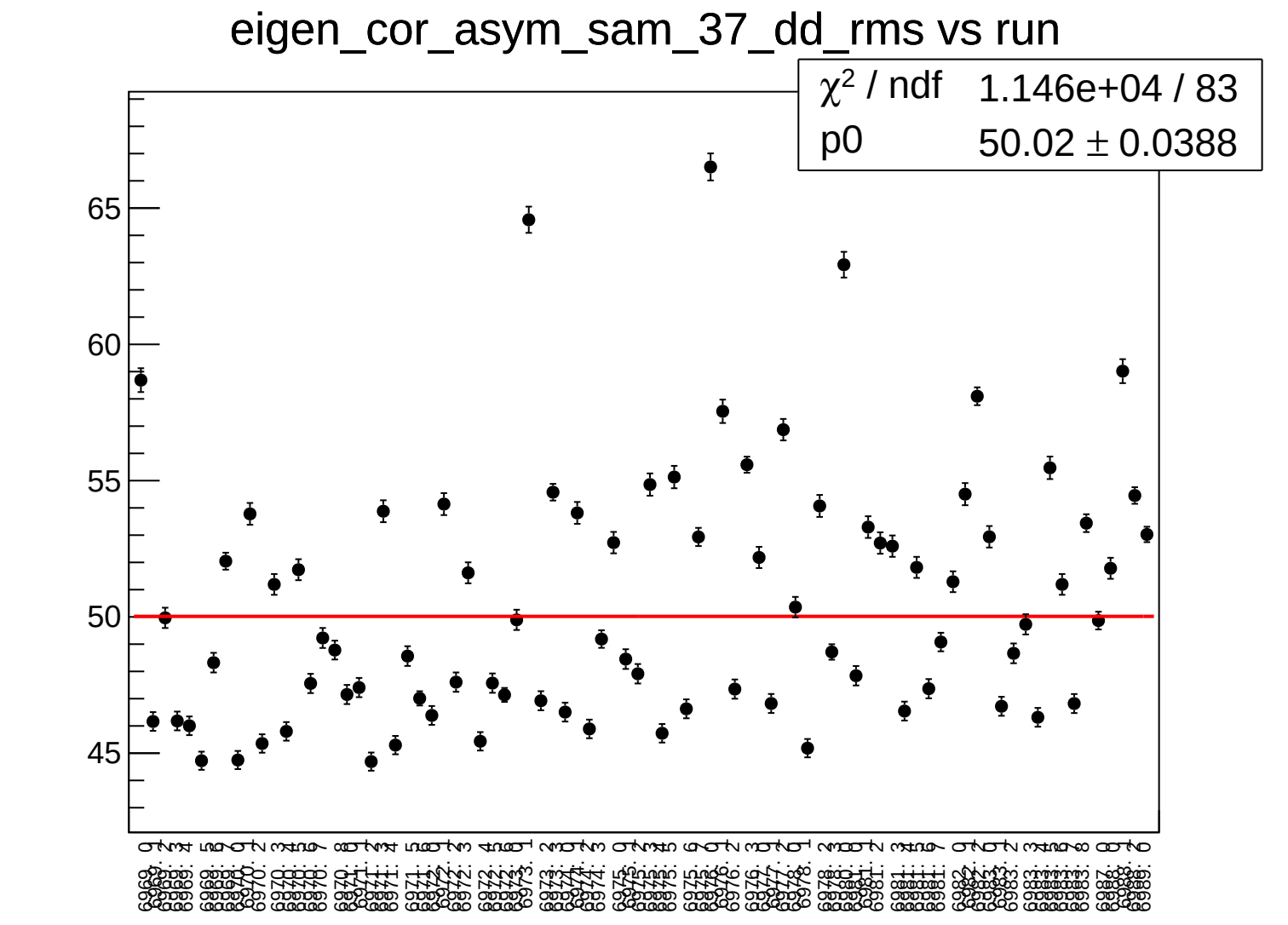

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 82.9 / 83
p0 −133.5 ± 416.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −2250
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

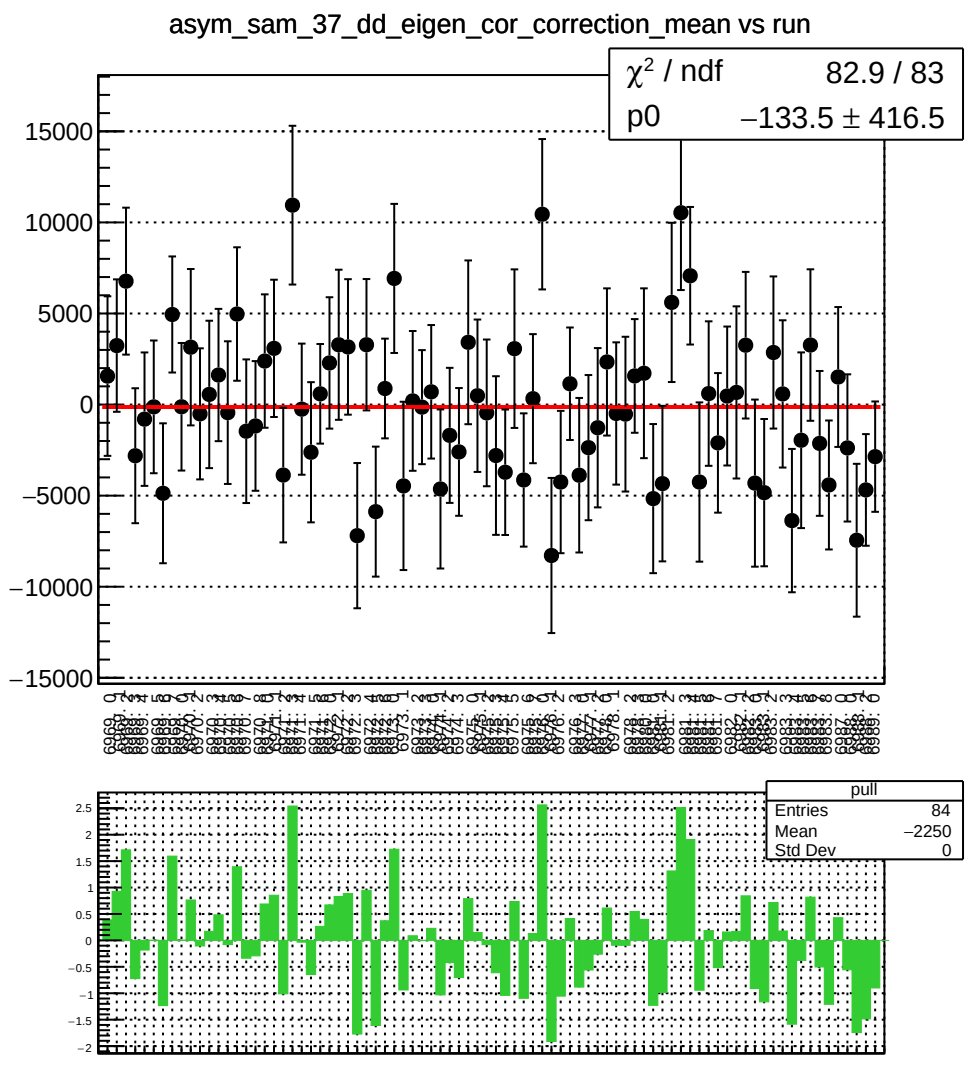

pull1D
Entries 84
Mean 0.00238
Std Dev 0.9934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

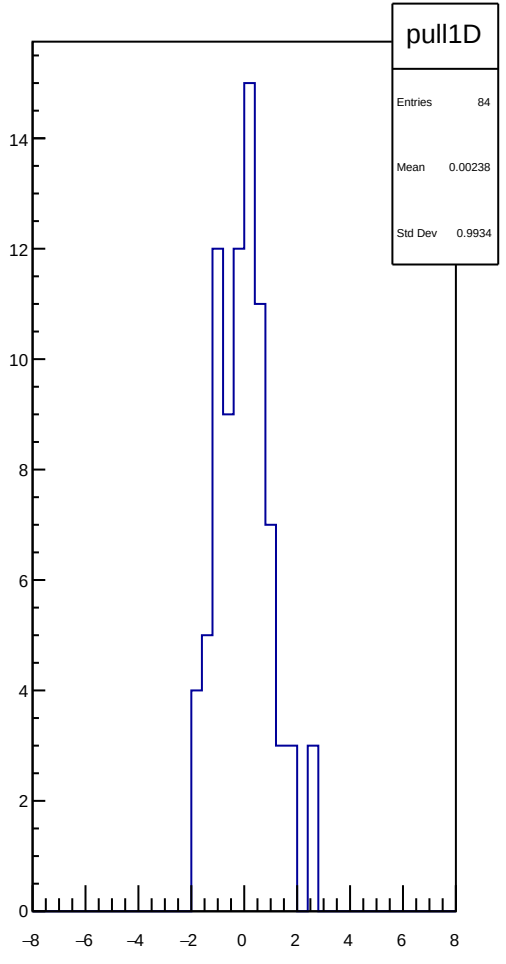

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.13e+04 / 83
p0 379.7 ± 0.2945
520
500
480
460
440
420
400
380
360
340
320

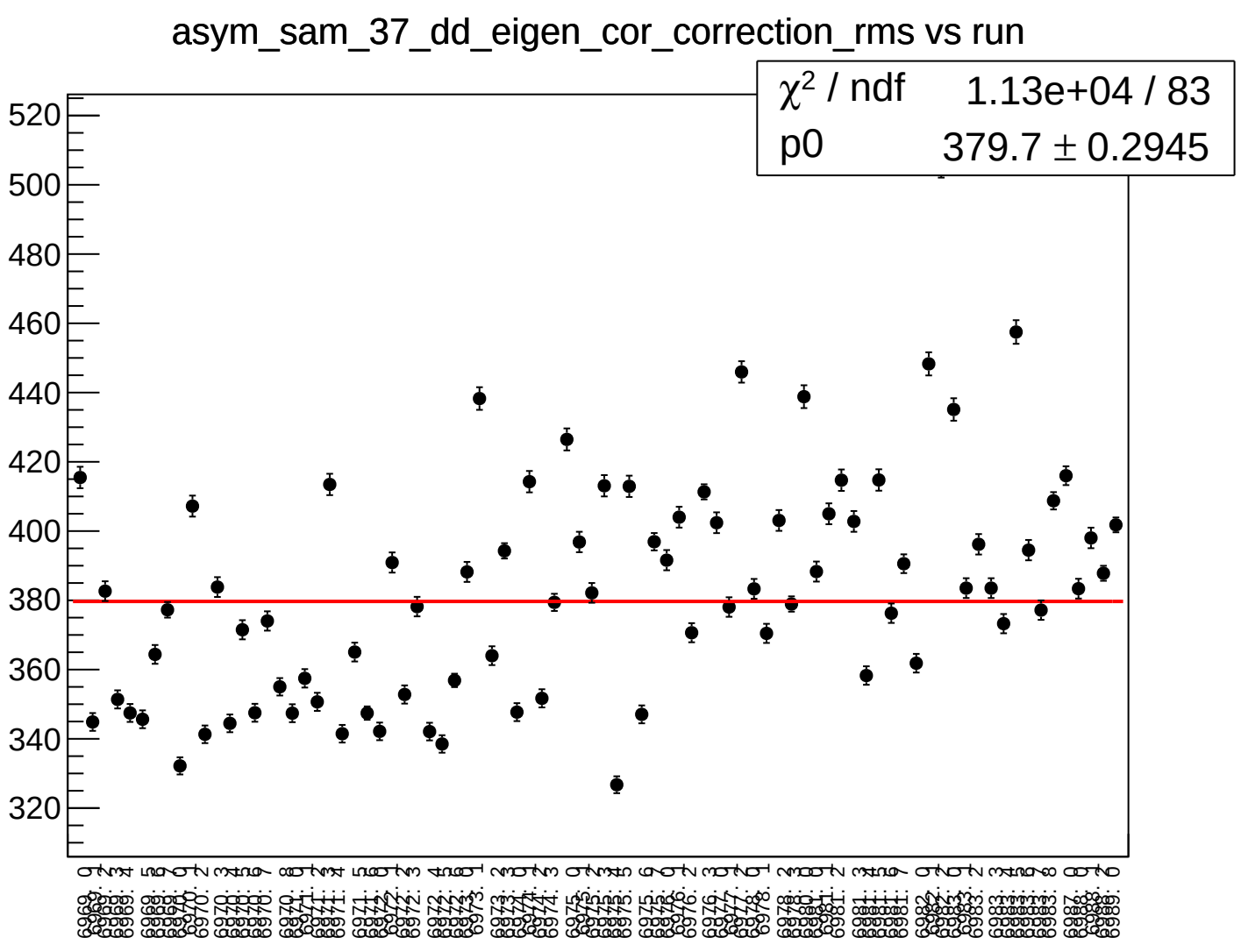

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 90.27 / 83
p0 −138.6 ± 54.87
pull
Entries 84
Mean 111.9
Std Dev 48.14

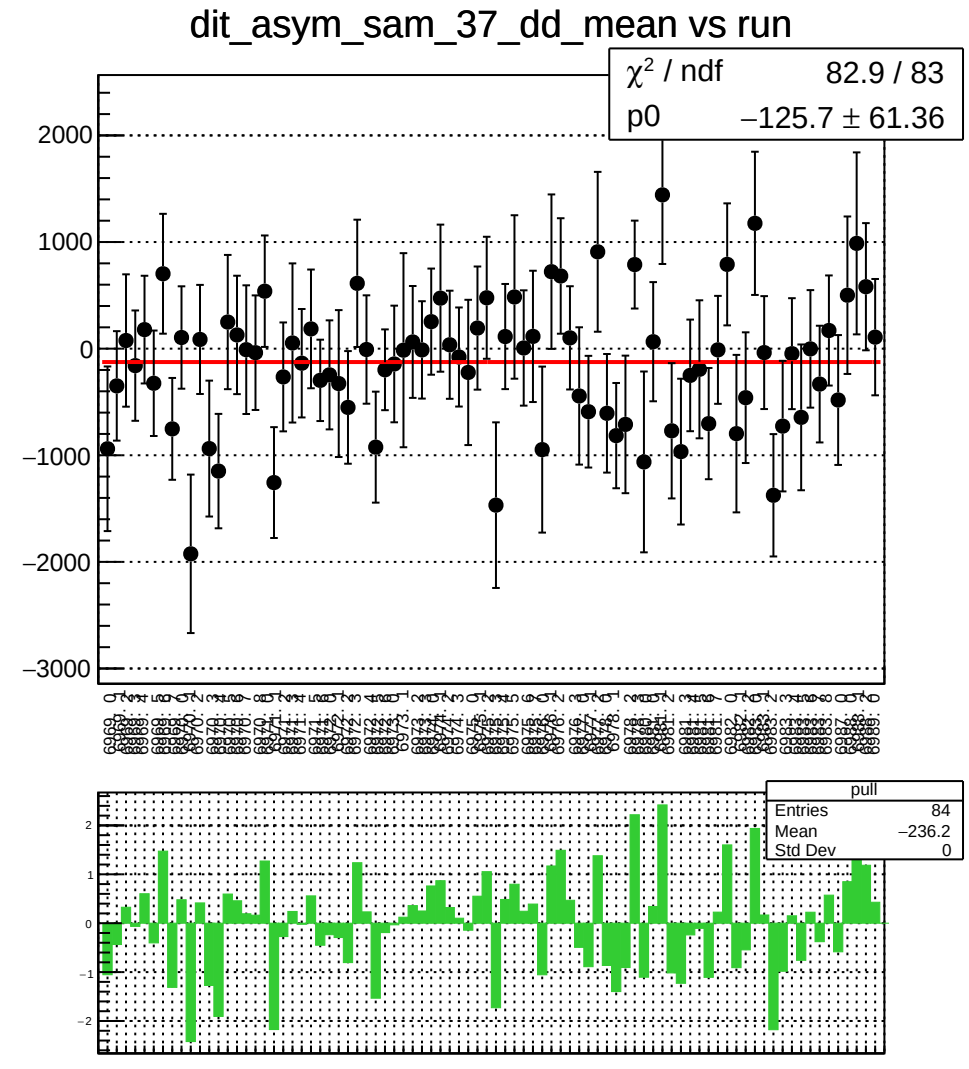

pull1D
Entries 84
Mean −0.008839
Std Dev 1.037

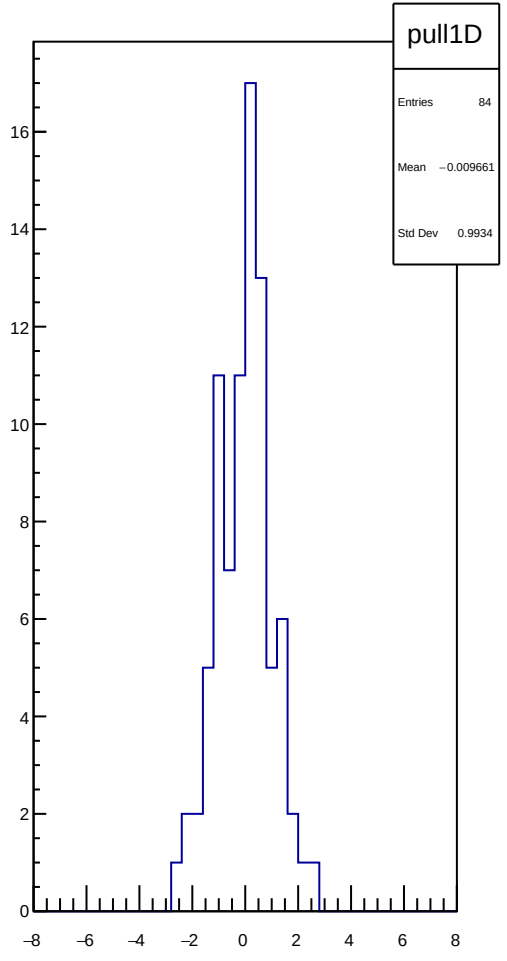

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.146e+04 / 83
p0 50.02 ± 0.0388
65
60
55
50
45

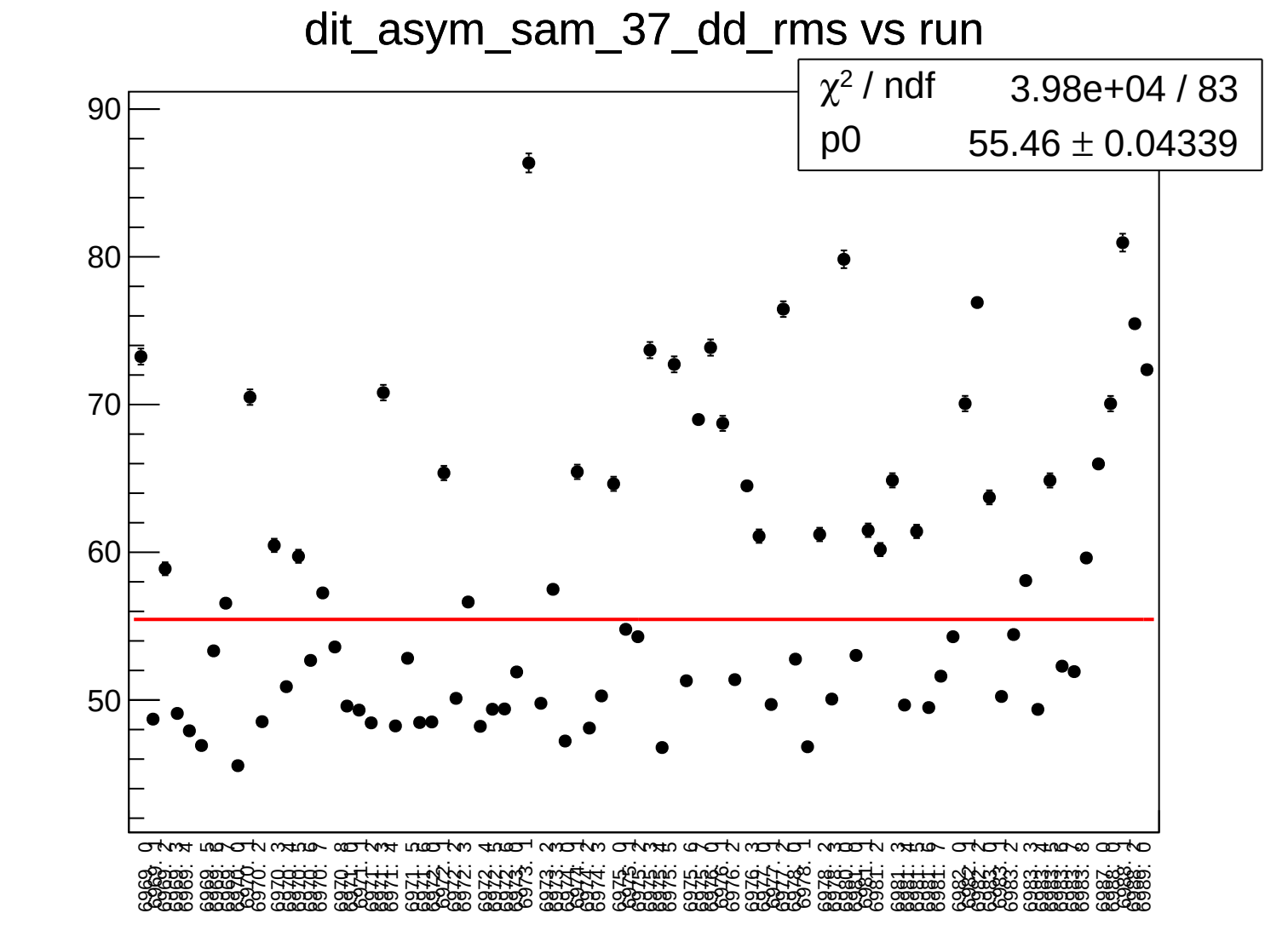

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.9 / 83
p0 −133.5 ± 416.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −2250
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

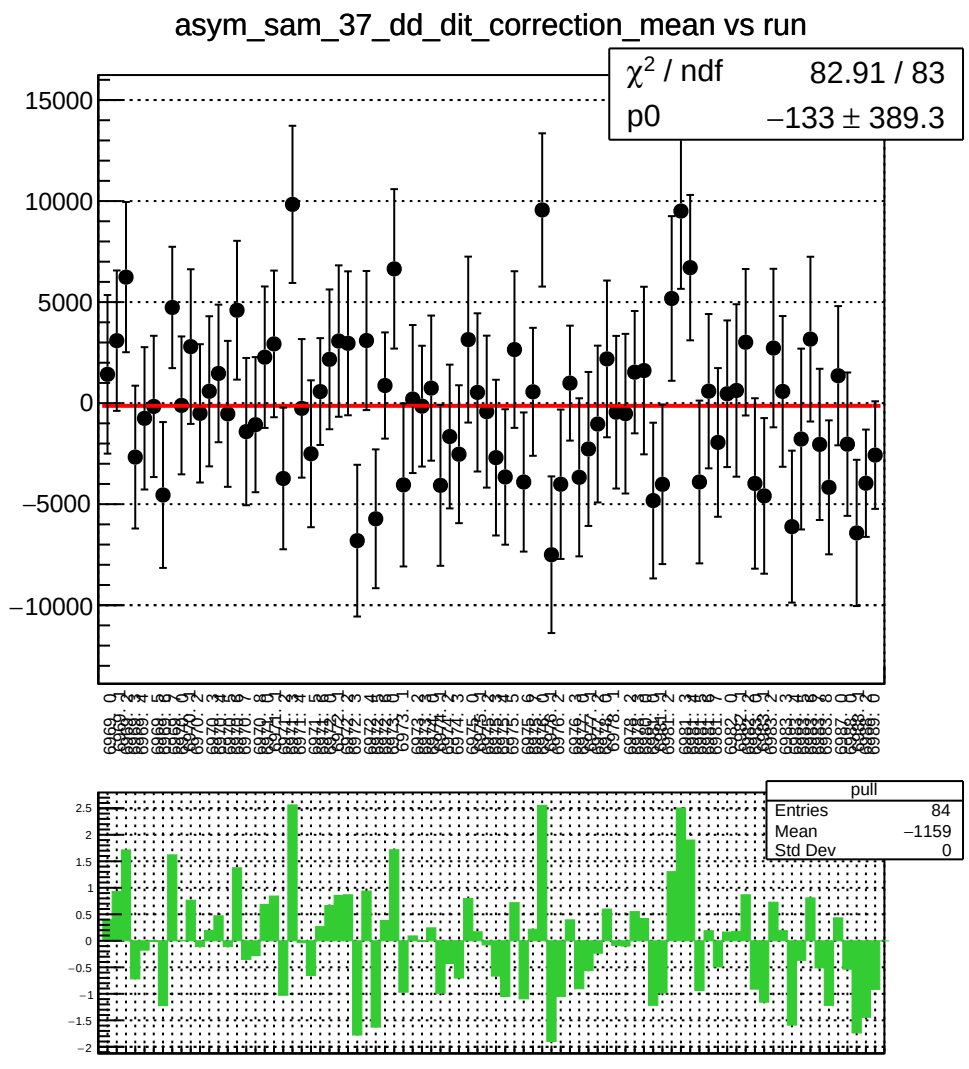

pull1D
Entries 84
Mean 0.00238
Std Dev 0.9934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

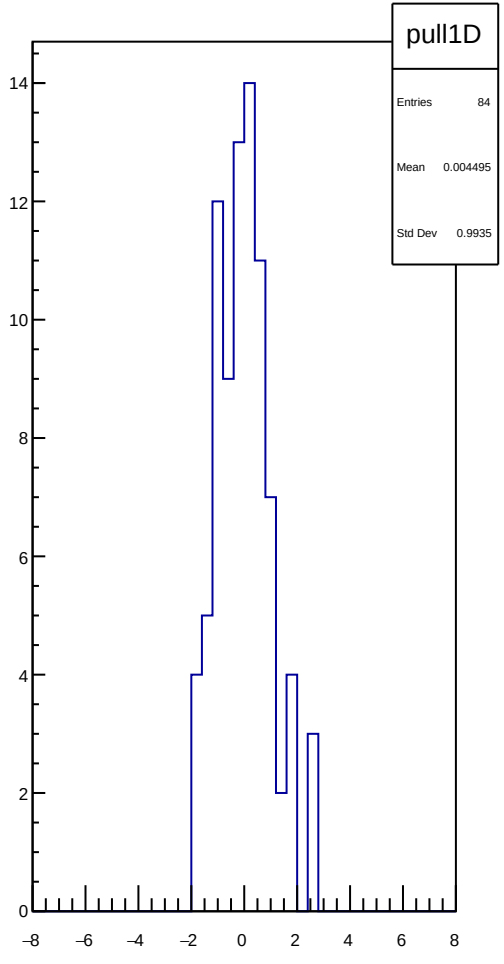

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.13e+04 / 83
p0 379.7 ± 0.2945
520
500
480
460
440
420
400
380
360
340
320

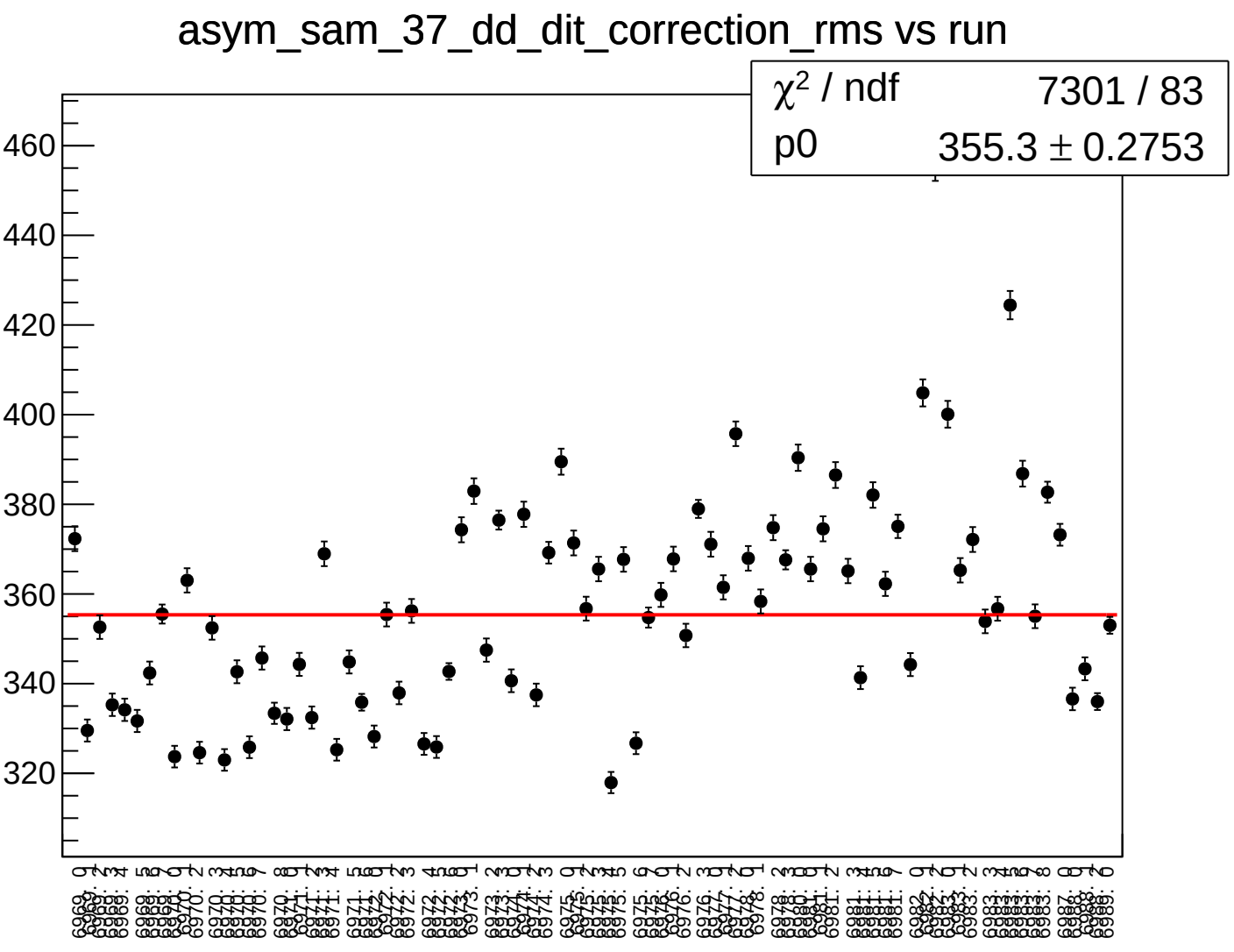

dit_asym_sam_37_dd_mean vs run
χ² / ndf 82.9 / 83
p0 −125.7 ± 61.36
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −236.2
Std Dev 0
2
1
0
−1
−2

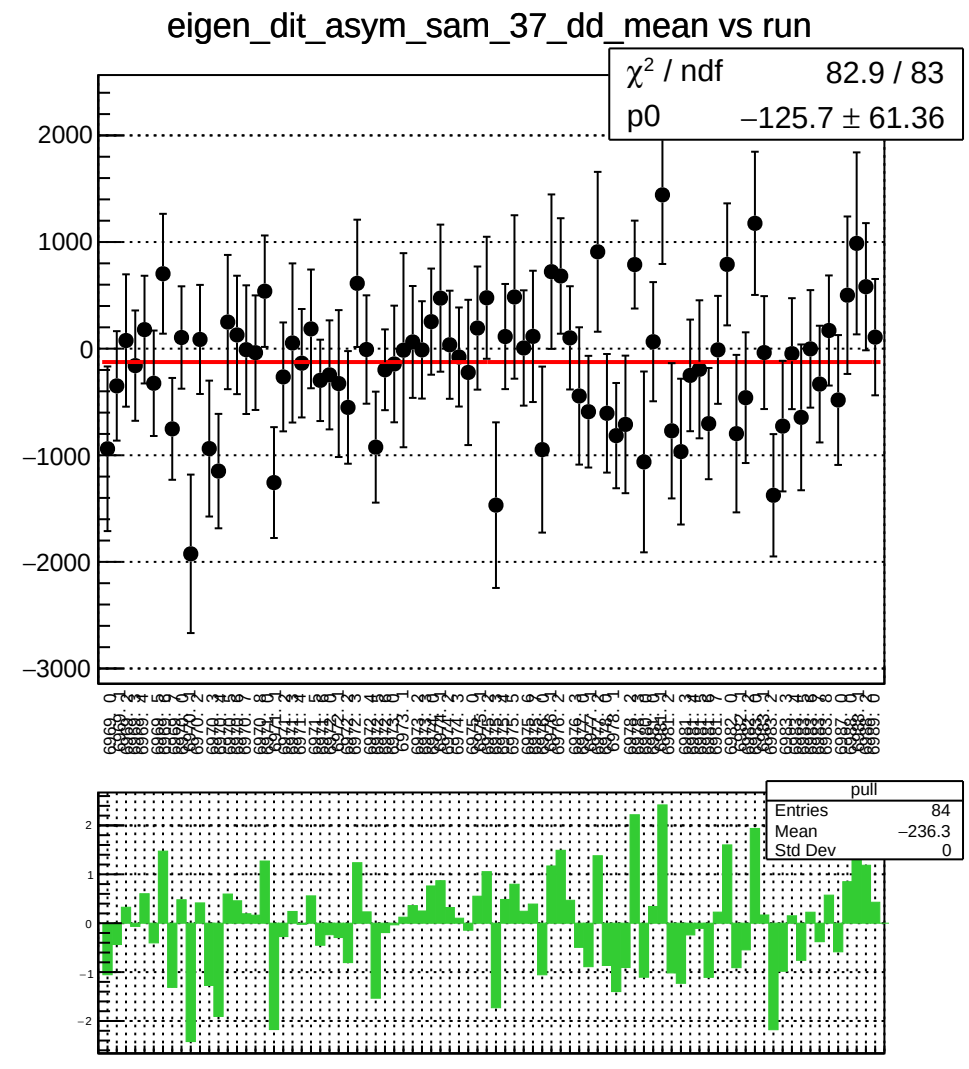

pull1D
Entries 84
Mean −0.009661
Std Dev 0.9934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

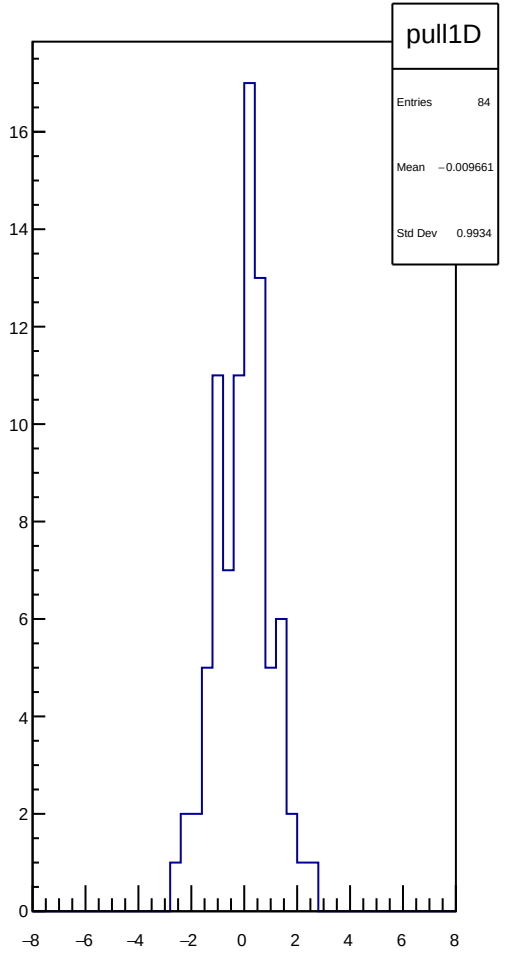

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.98e+04 / 83
p0 55.46 ± 0.04339
90
80
70
60
50

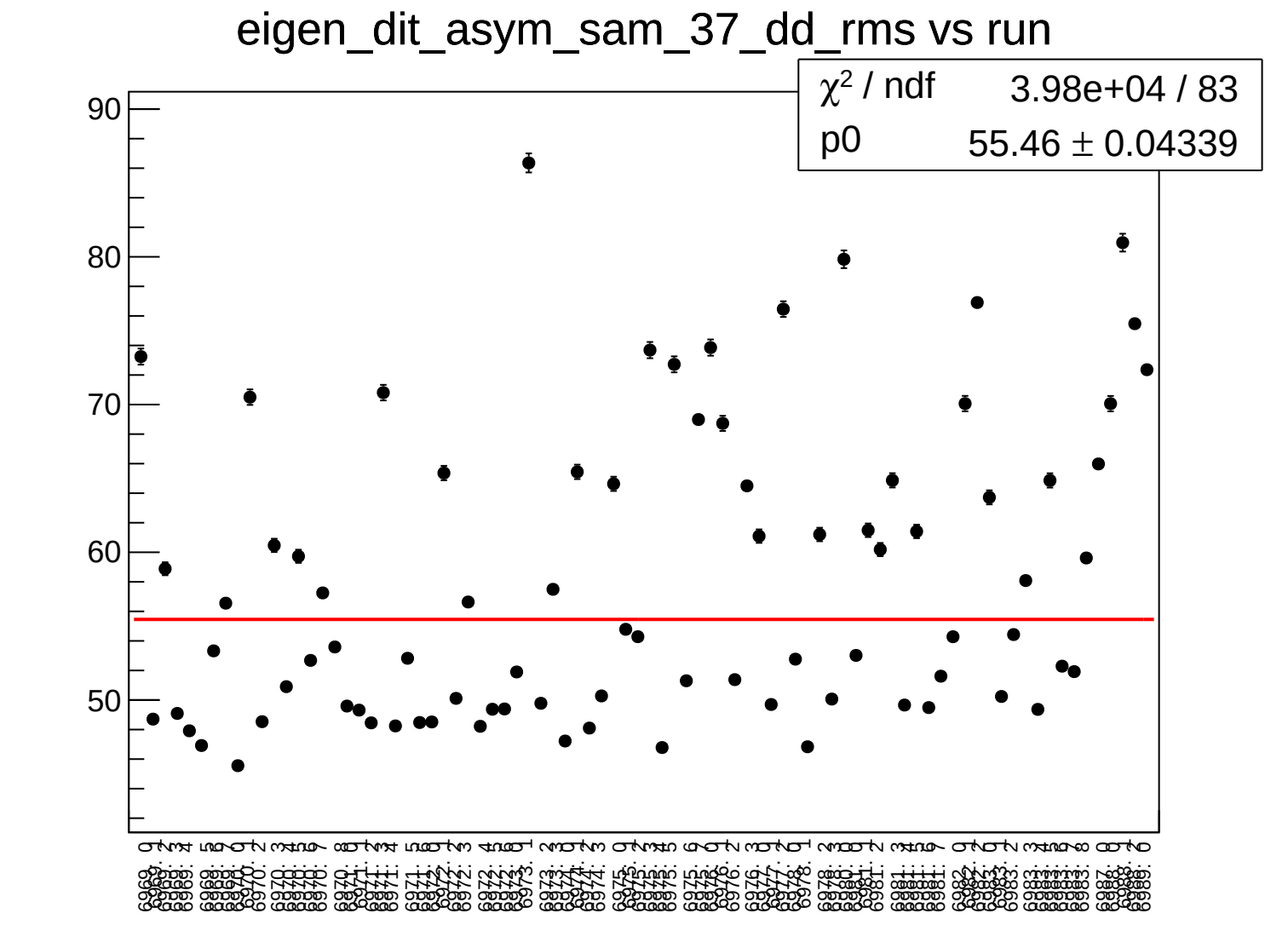

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 82.91 / 83
p0 −133 ± 389.3
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −1159
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

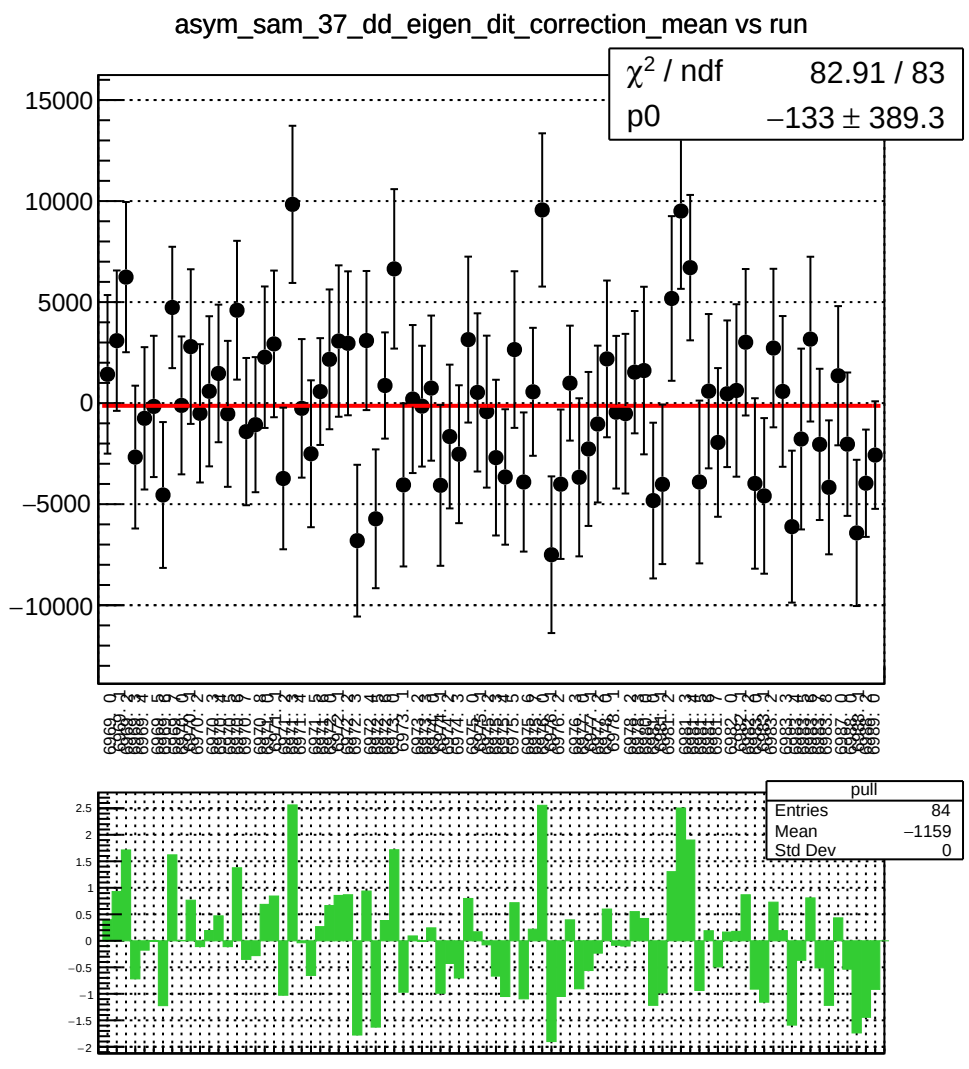

pull1D
Entries 84
Mean 0.004495
Std Dev 0.9935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

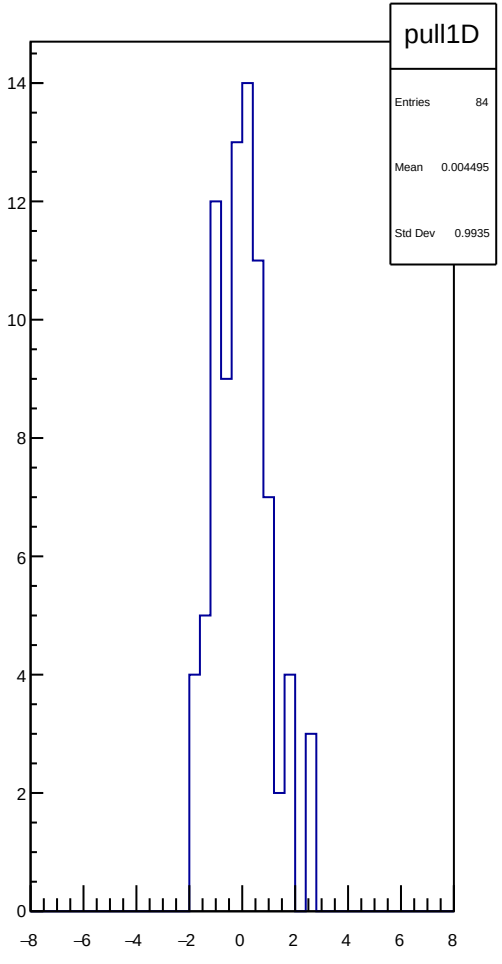

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 7301 / 83
p0 355.3 ± 0.2753
460
440
420
400
380
360
340
320

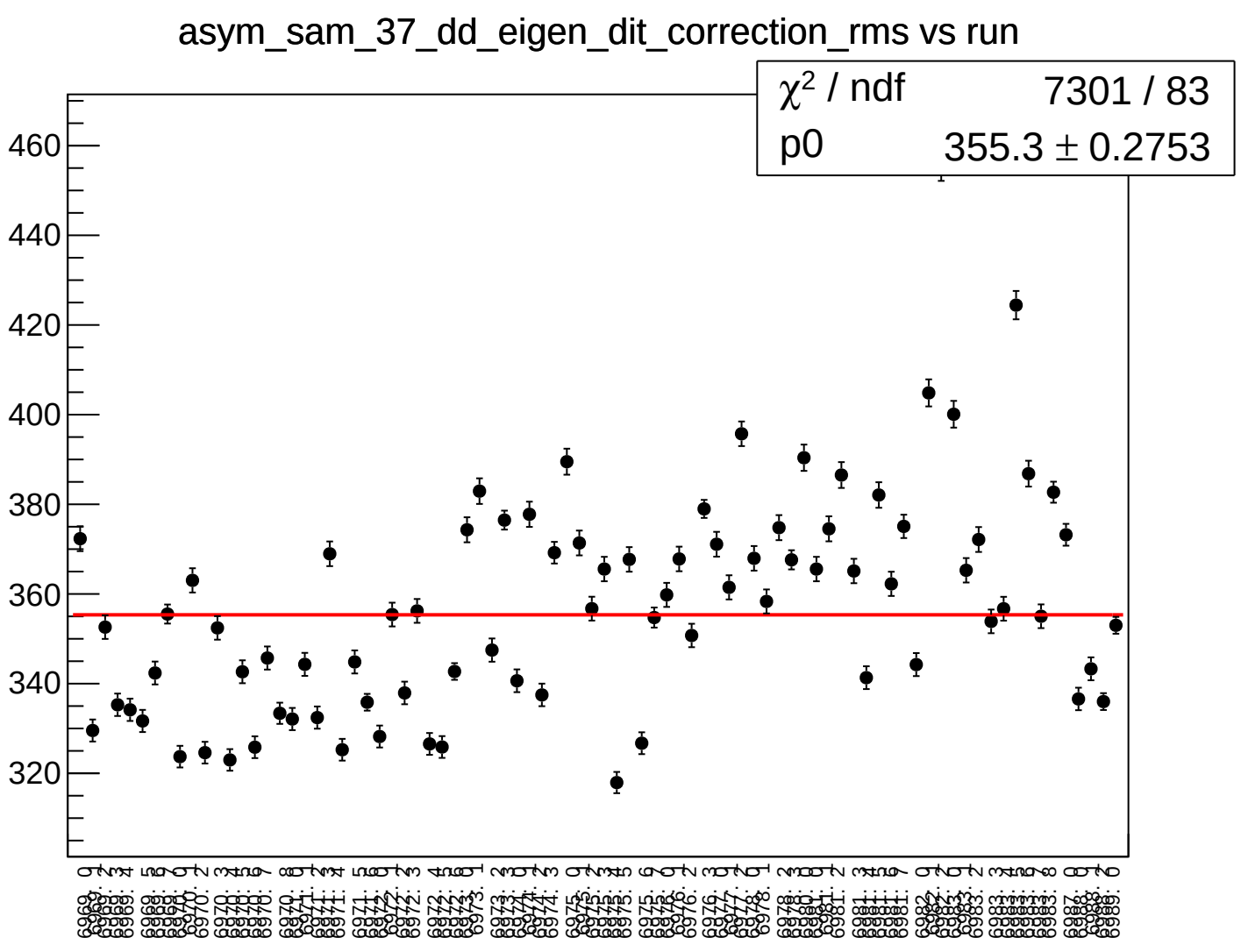

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 82.9 / 83
p0 −125.7 ± 61.36
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −236.3
Std Dev 0
2
1
0
−1
−2

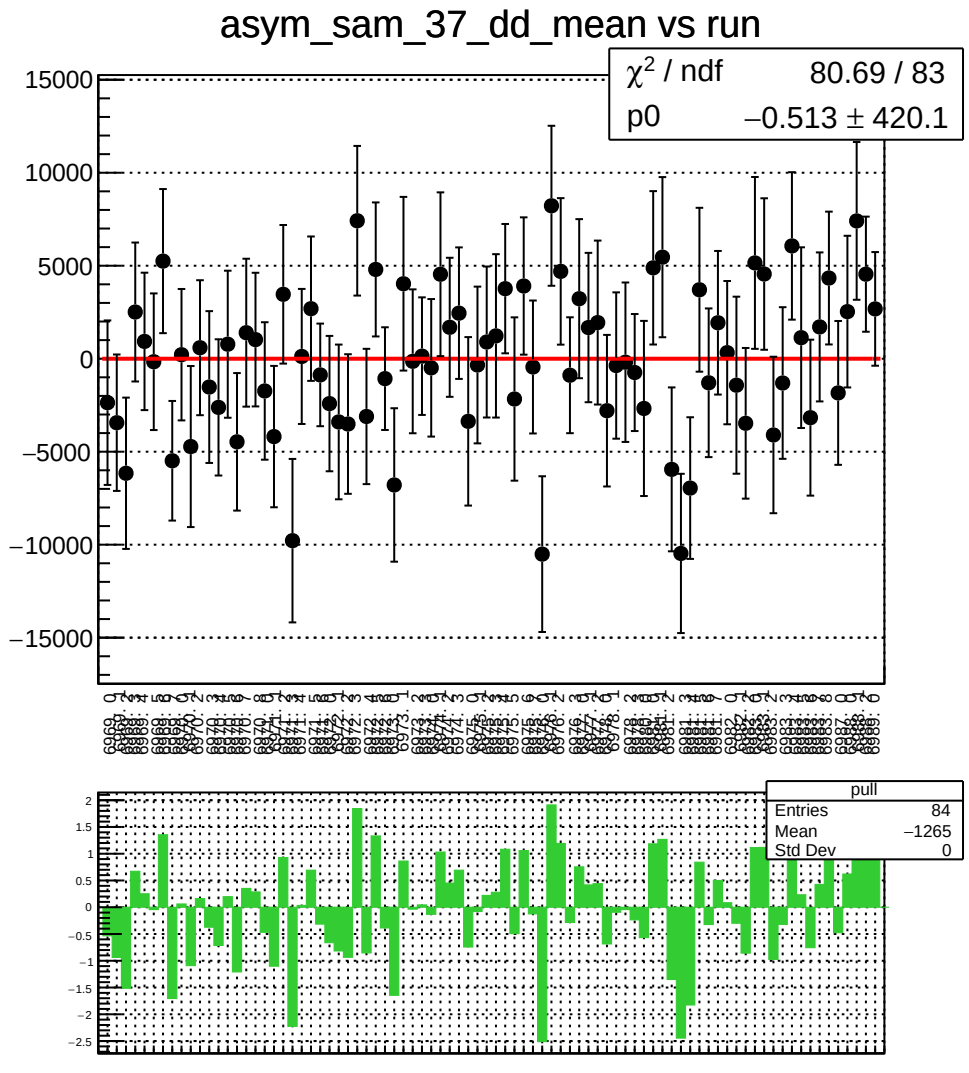

pull1D
Entries 84
Mean −0.009661
Std Dev 0.9934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

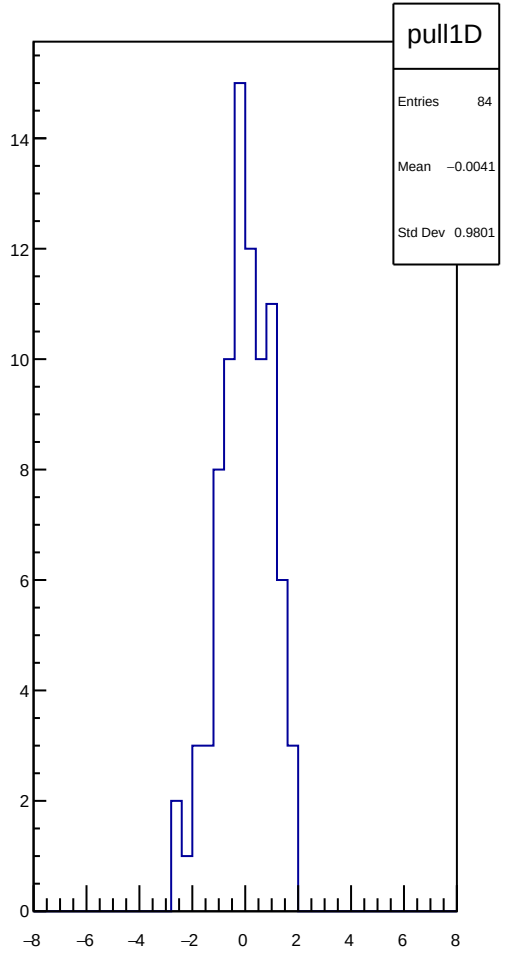

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.98e+04 / 83
p0 55.46 ± 0.04339
90
80
70
60
50

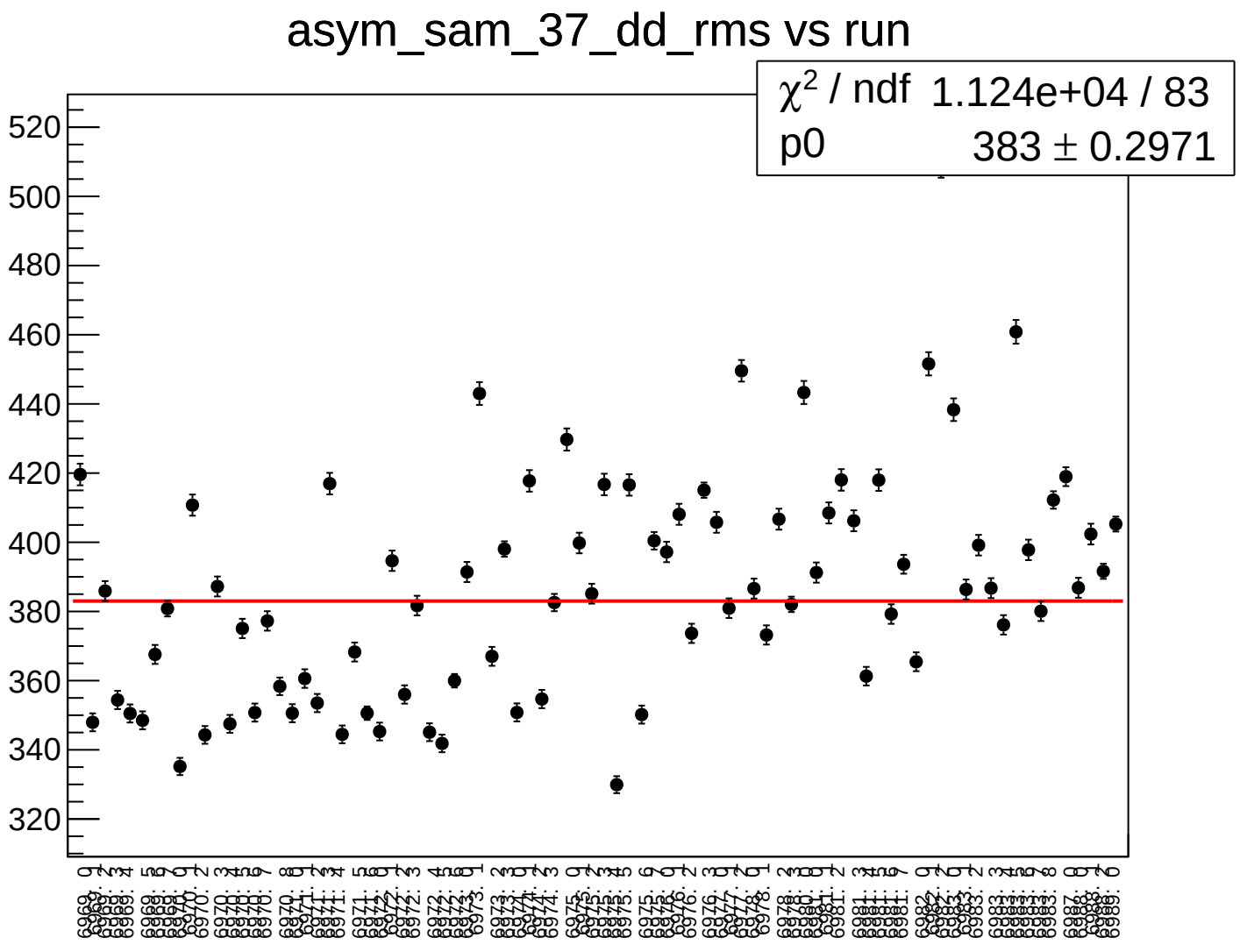

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.91 / 83
p0 −133 ± 389.3
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −1159
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

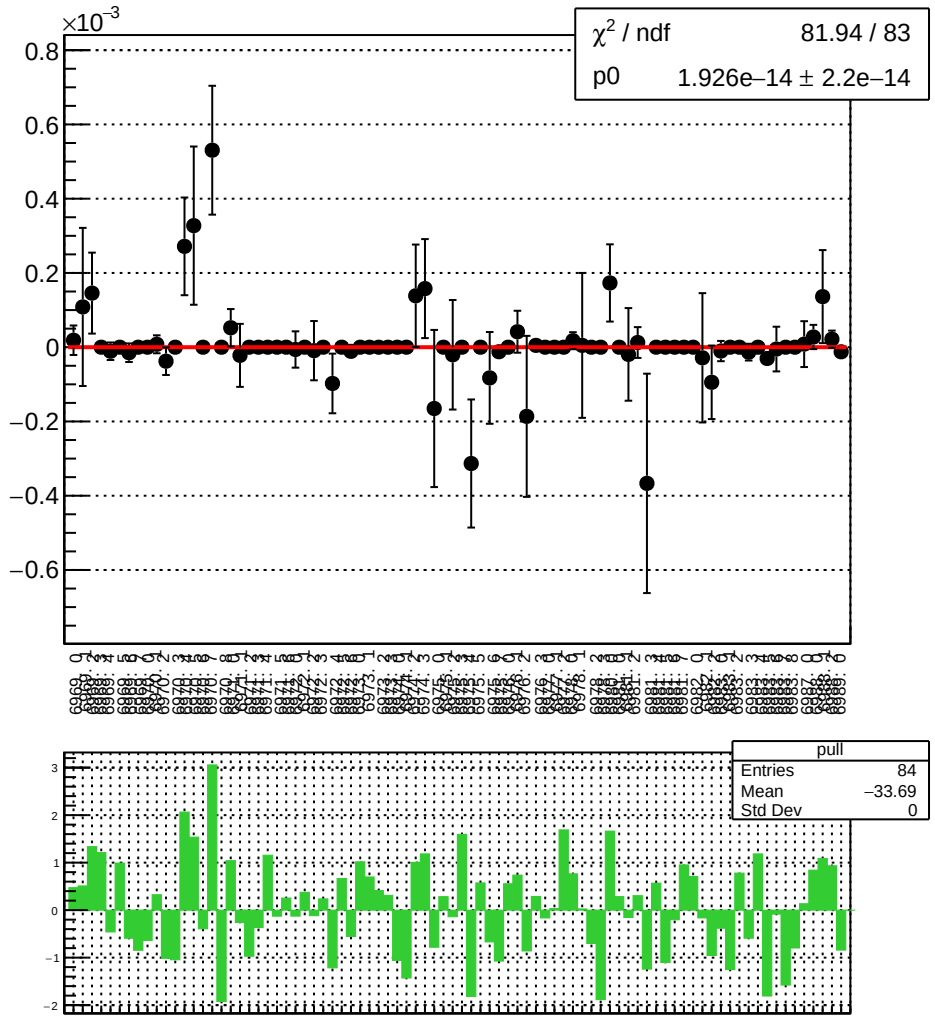

pull1D
Entries 84
Mean 0.004495
Std Dev 0.9935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

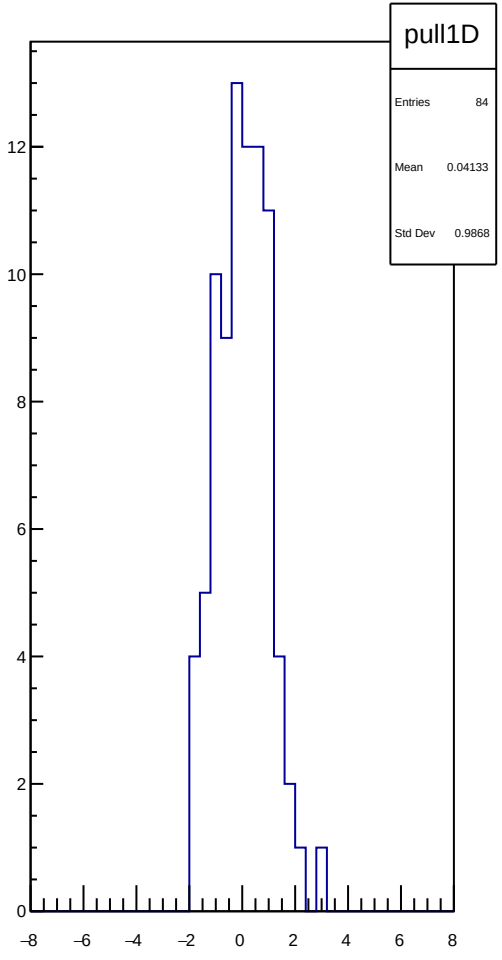

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 7301 / 83
p0 355.3 ± 0.2753
460
440
420
400
380
360
340
320

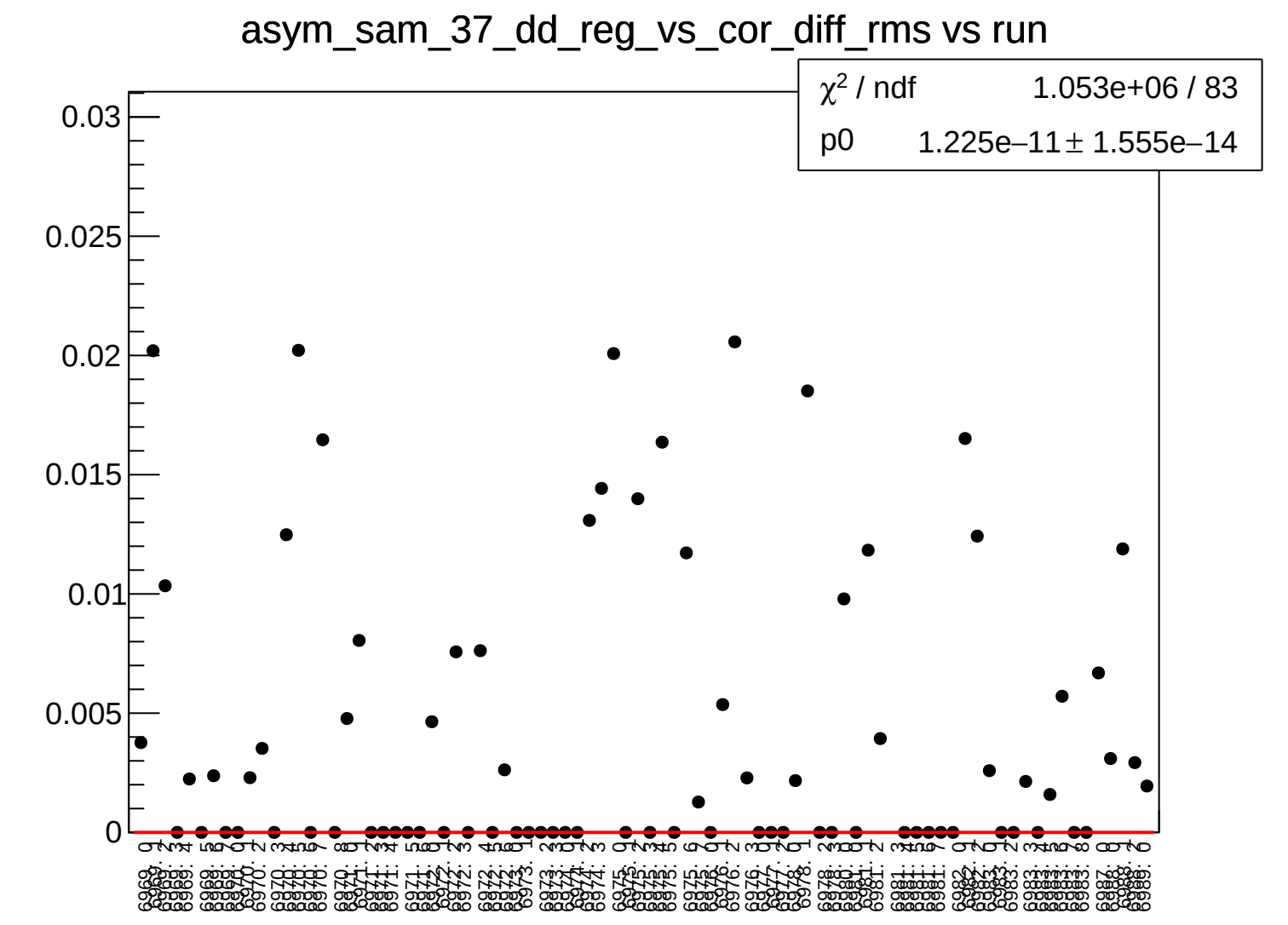

asym_sam_37_dd_mean vs run
χ² / ndf 80.69 / 83
p0 −0.513 ± 420.1
pull
Entries 84
Mean −1265
Std Dev 0

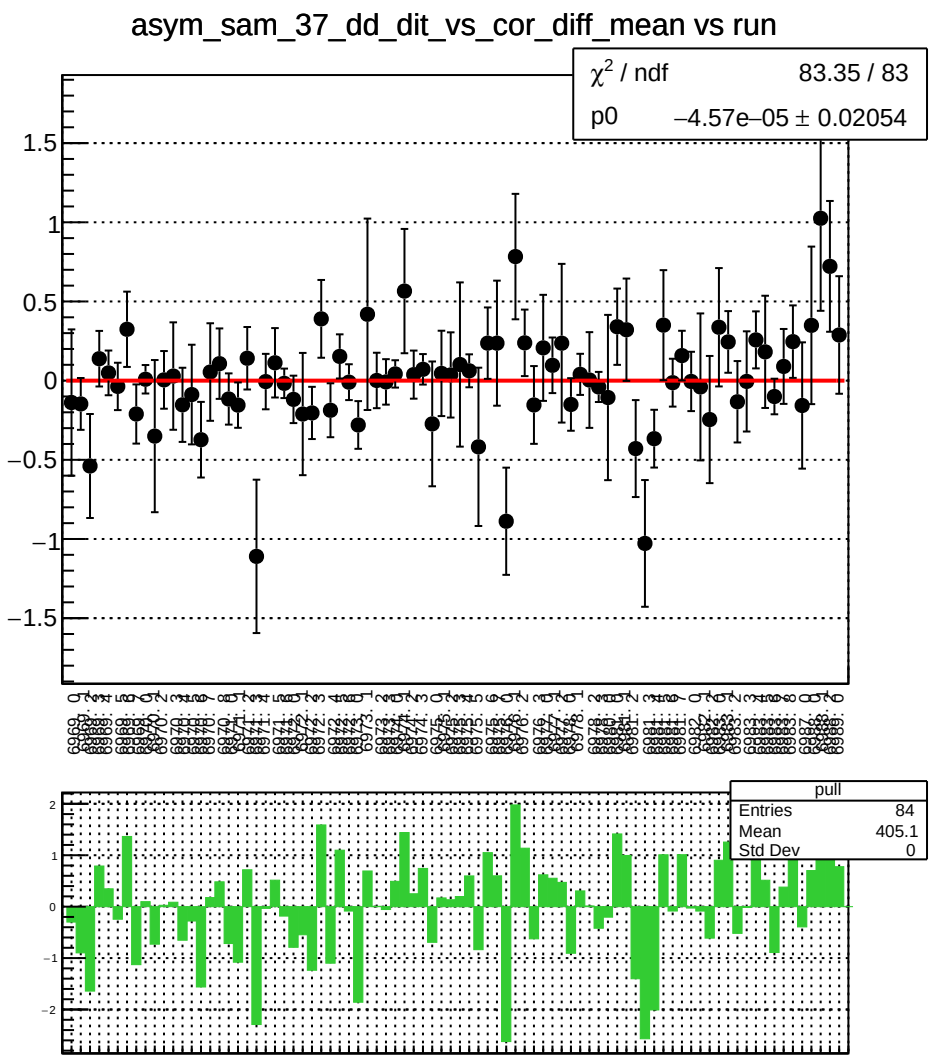

pull1D
Entries 84
Mean −0.0041
Std Dev 0.9801

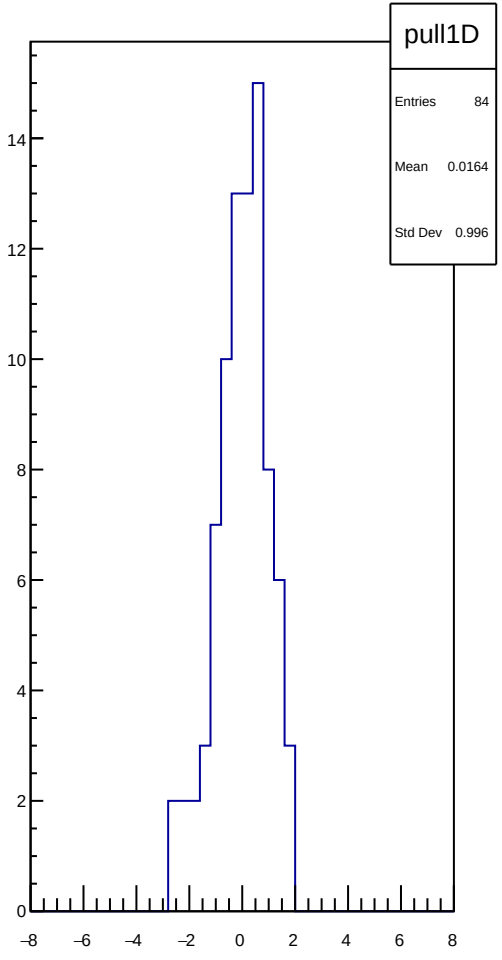

asym_sam_37_dd_rms vs run
χ² / ndf 1.124e+04 / 83
p0 383 ± 0.2971
520
500
480
460
440
420
400
380
360
340
320

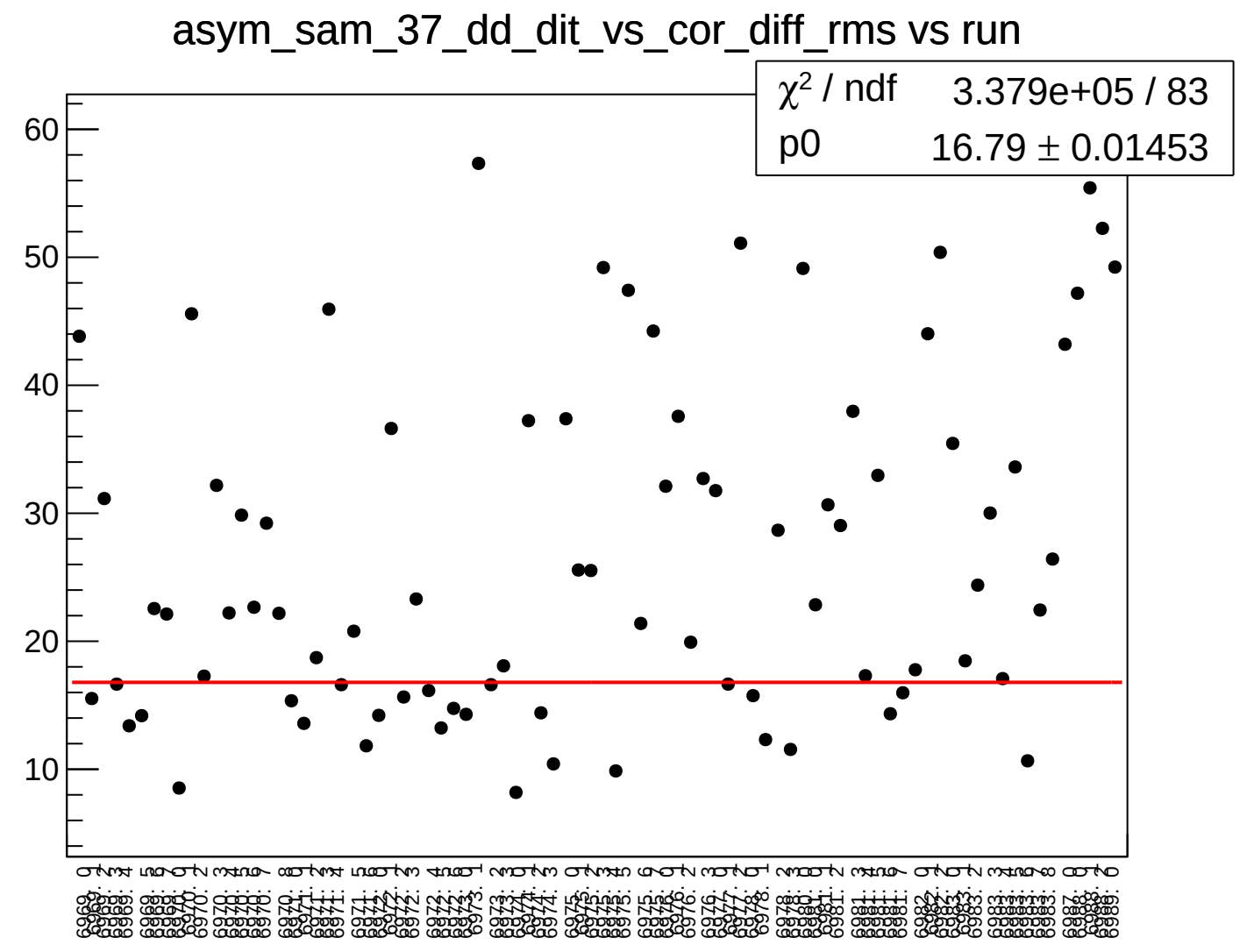

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 81.94 / 83
p0 1.926e−14 ± 2.2e−14
pull
Entries 84
Mean −33.69
Std Dev 0

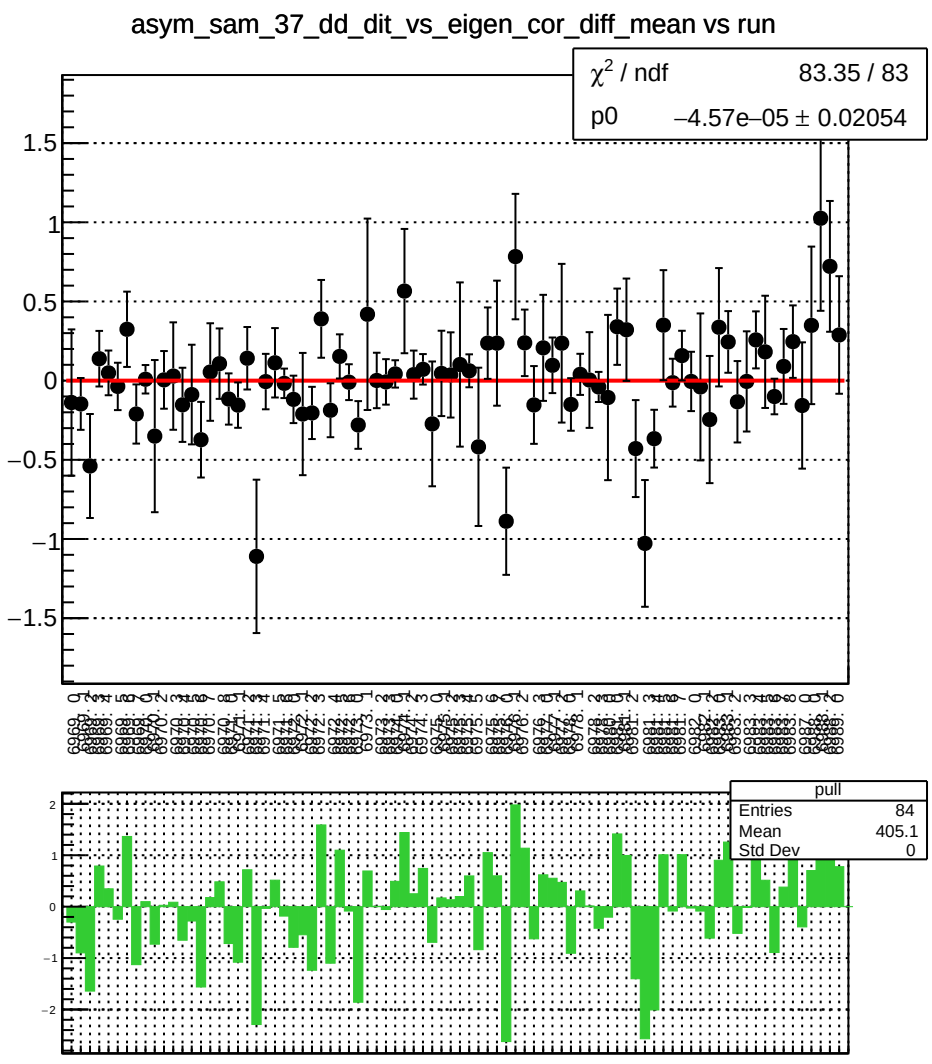

pull1D
Entries 84
Mean 0.04133
Std Dev 0.9868

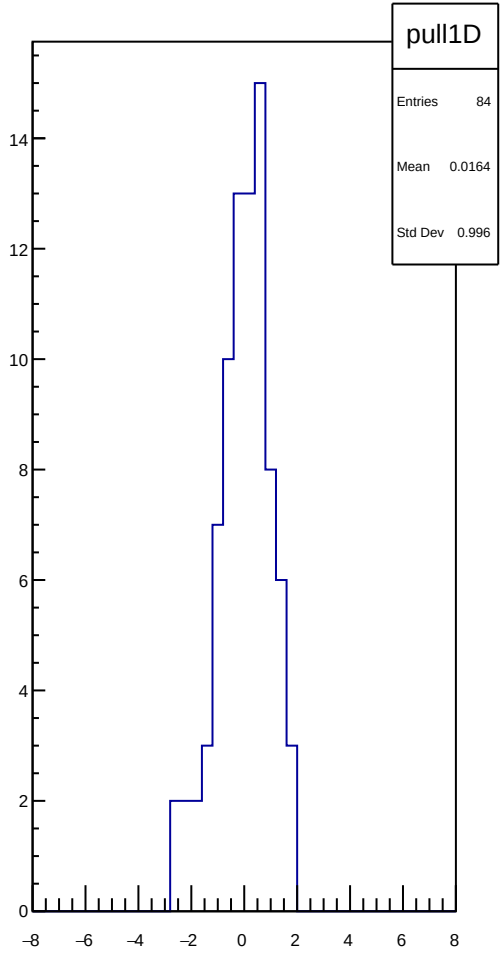

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.053e+06 / 83
p0 1.225e−11 ± 1.555e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

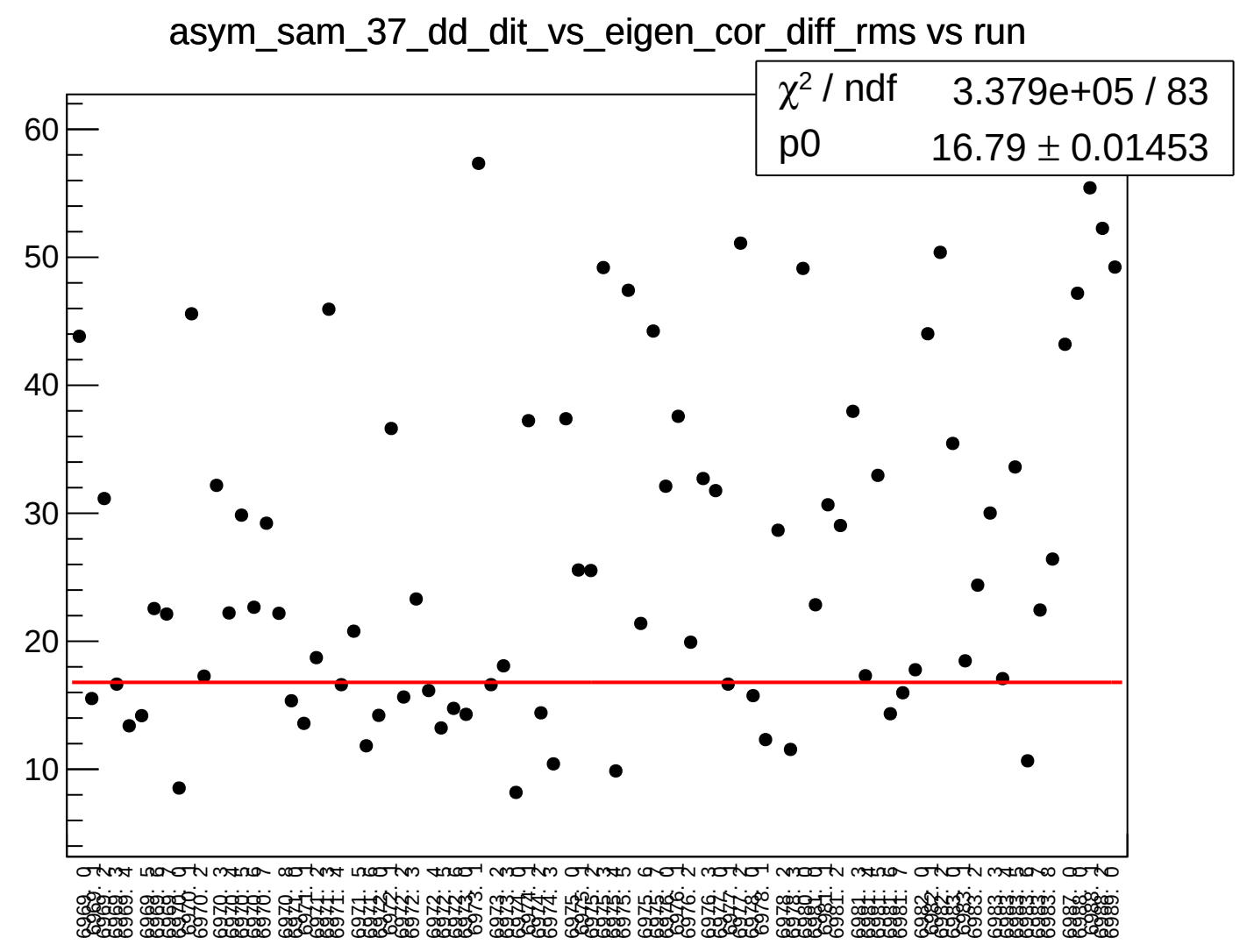

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.35 / 83
p0 −4.57e−05 ± 0.02054
pull
Entries 84
Mean 405.1
Std Dev 0

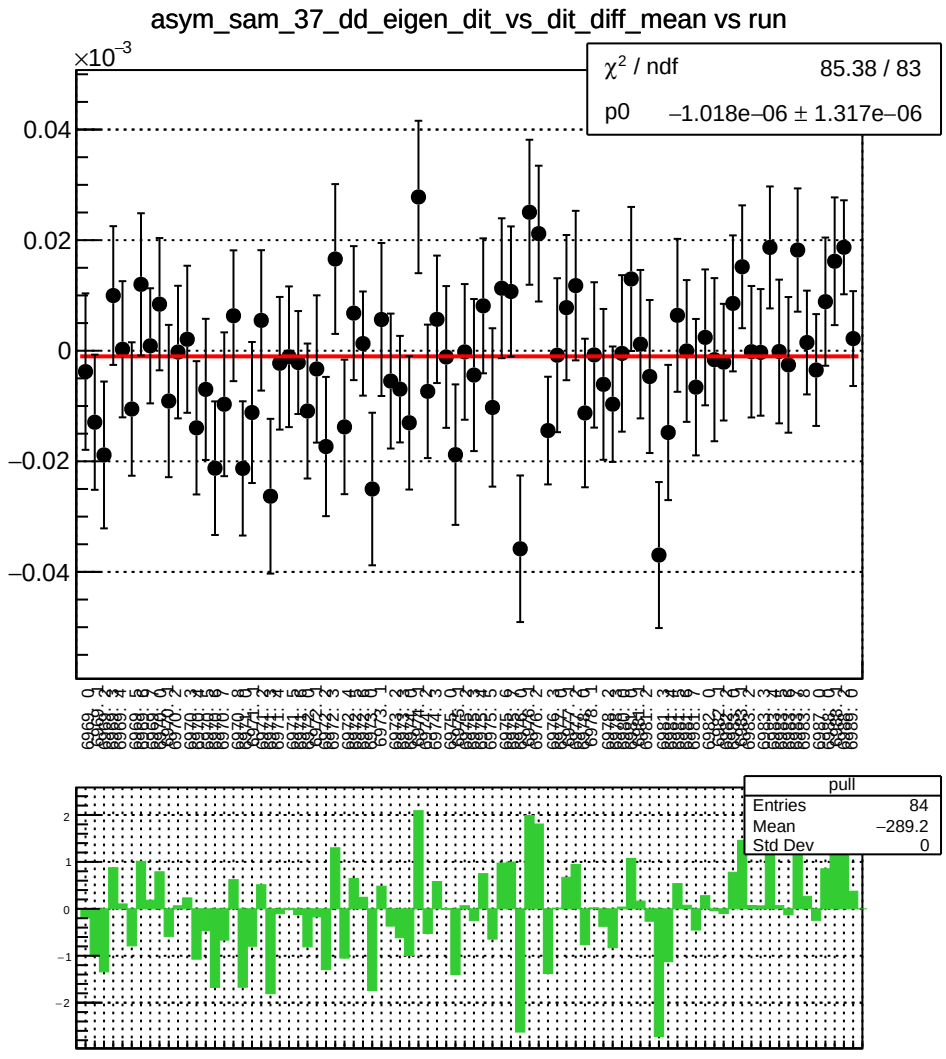

pull1D
Entries 84
Mean 0.0164
Std Dev 0.996

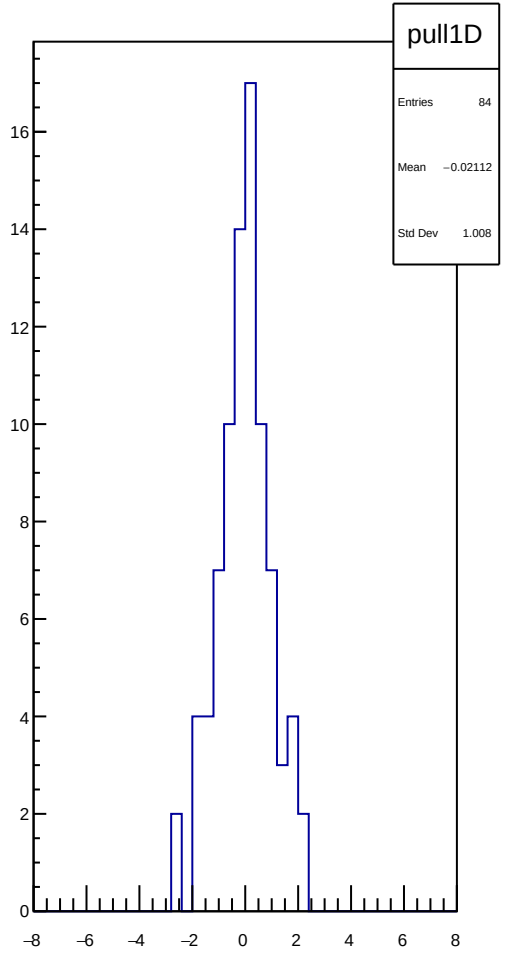

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.379e+05 / 83
p0 16.79 ± 0.01453
60
50
40
30
20
10

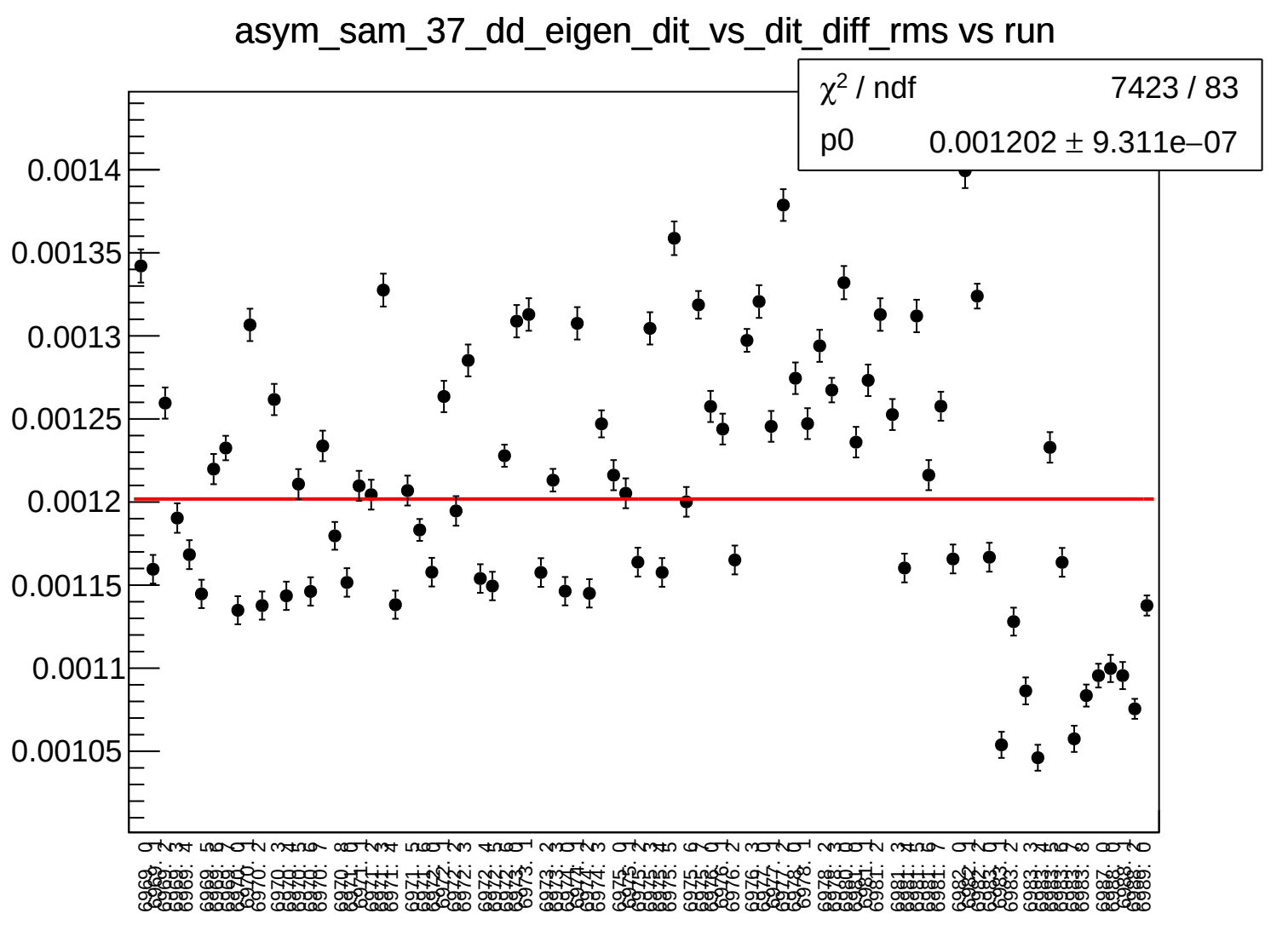

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.35 / 83
p0 −4.57e−05 ± 0.02054
pull
Entries 84
Mean 405.1
Std Dev 0

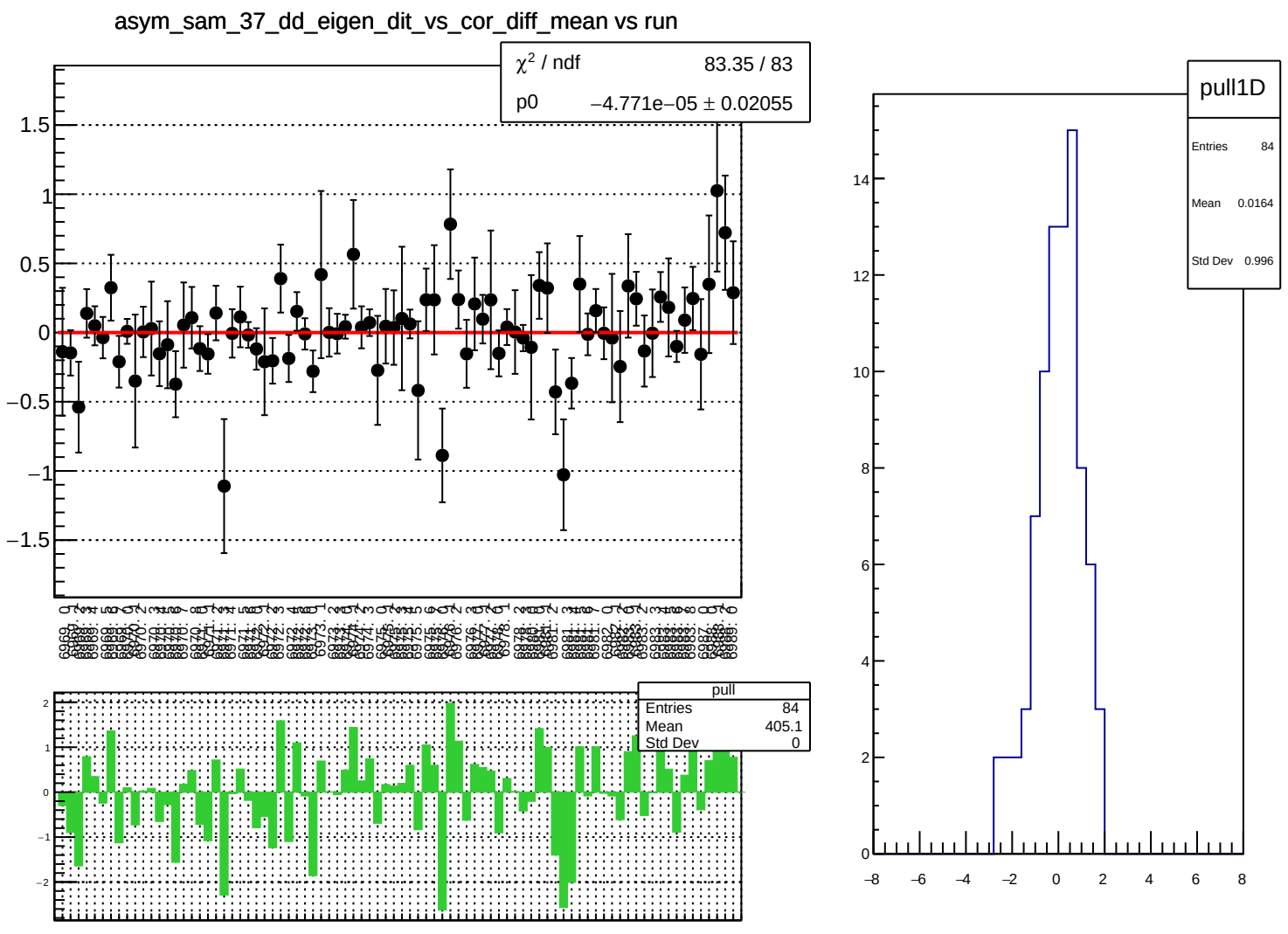

pull1D
Entries 84
Mean 0.0164
Std Dev 0.996

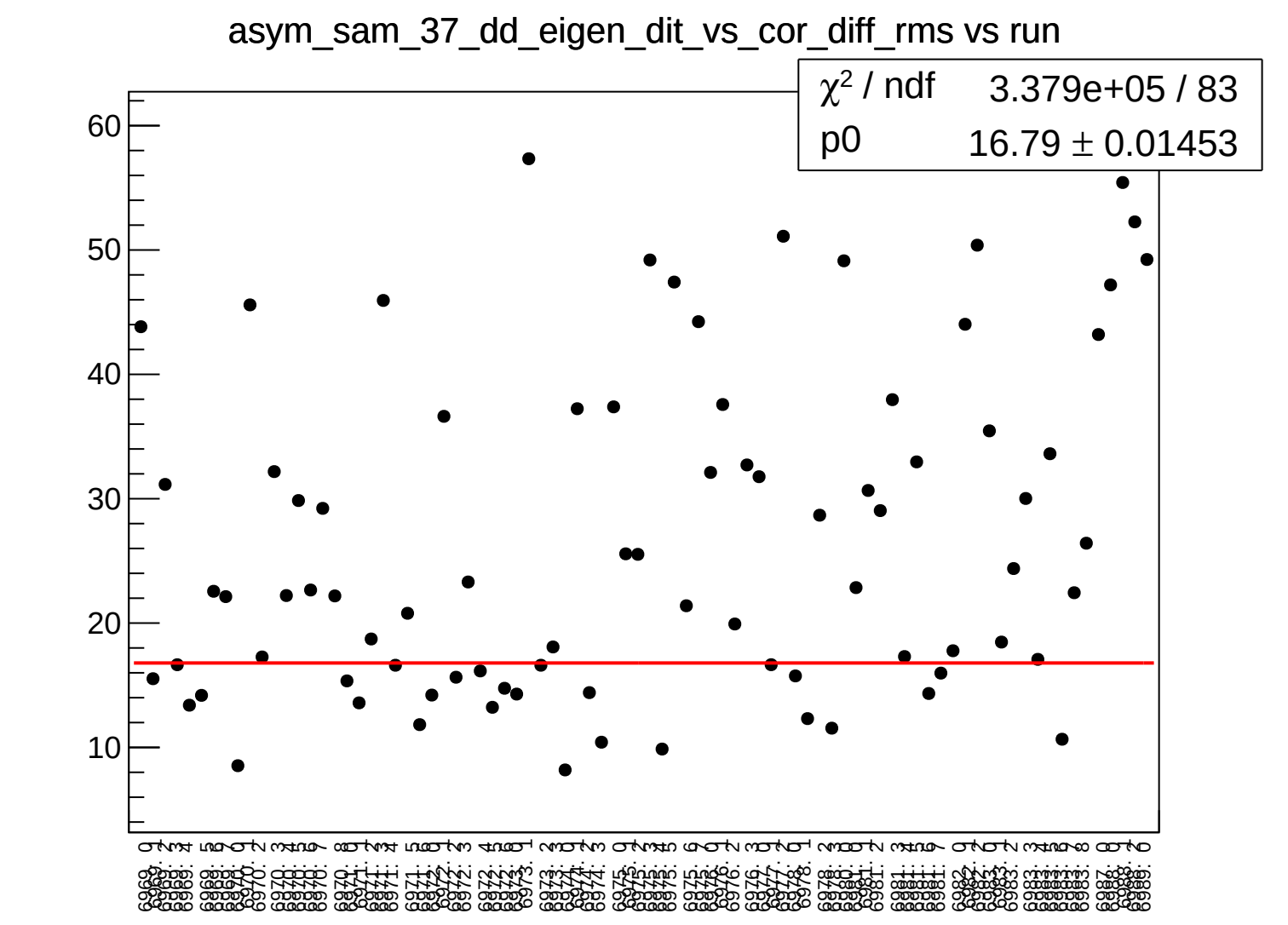

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.379e+05 / 83
p0 16.79 ± 0.01453
60
50
40
30
20
10

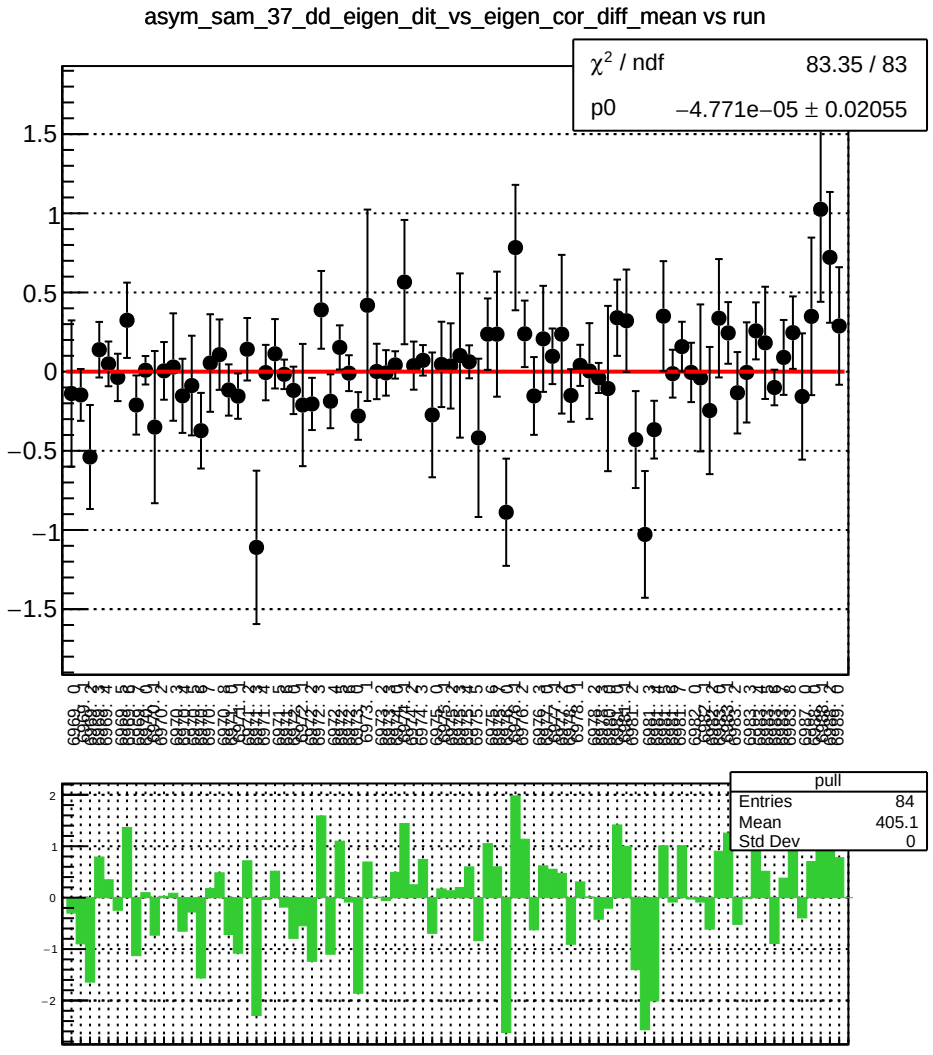

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.38 / 83
p0 −1.018e−06 ± 1.317e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 84
Mean −289.2
Std Dev 0
2
1
0
−1
−2

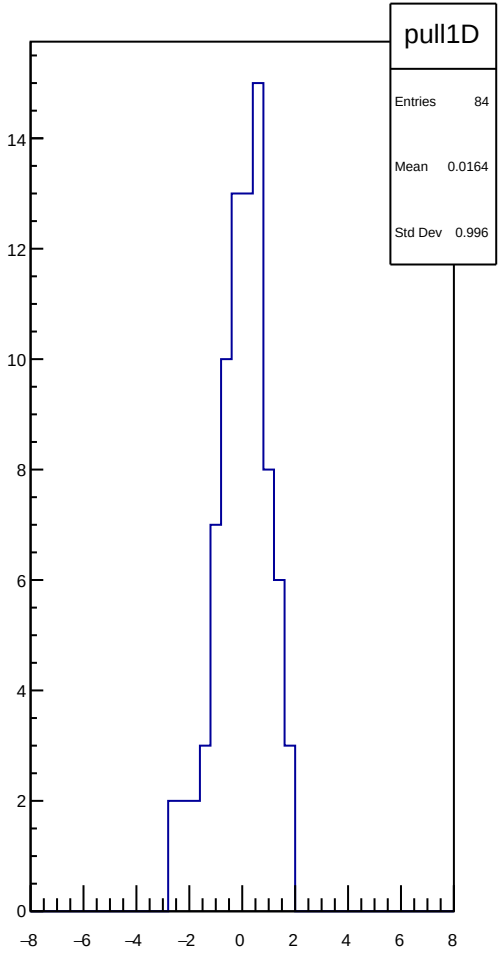

pull1D
Entries 84
Mean −0.02112
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

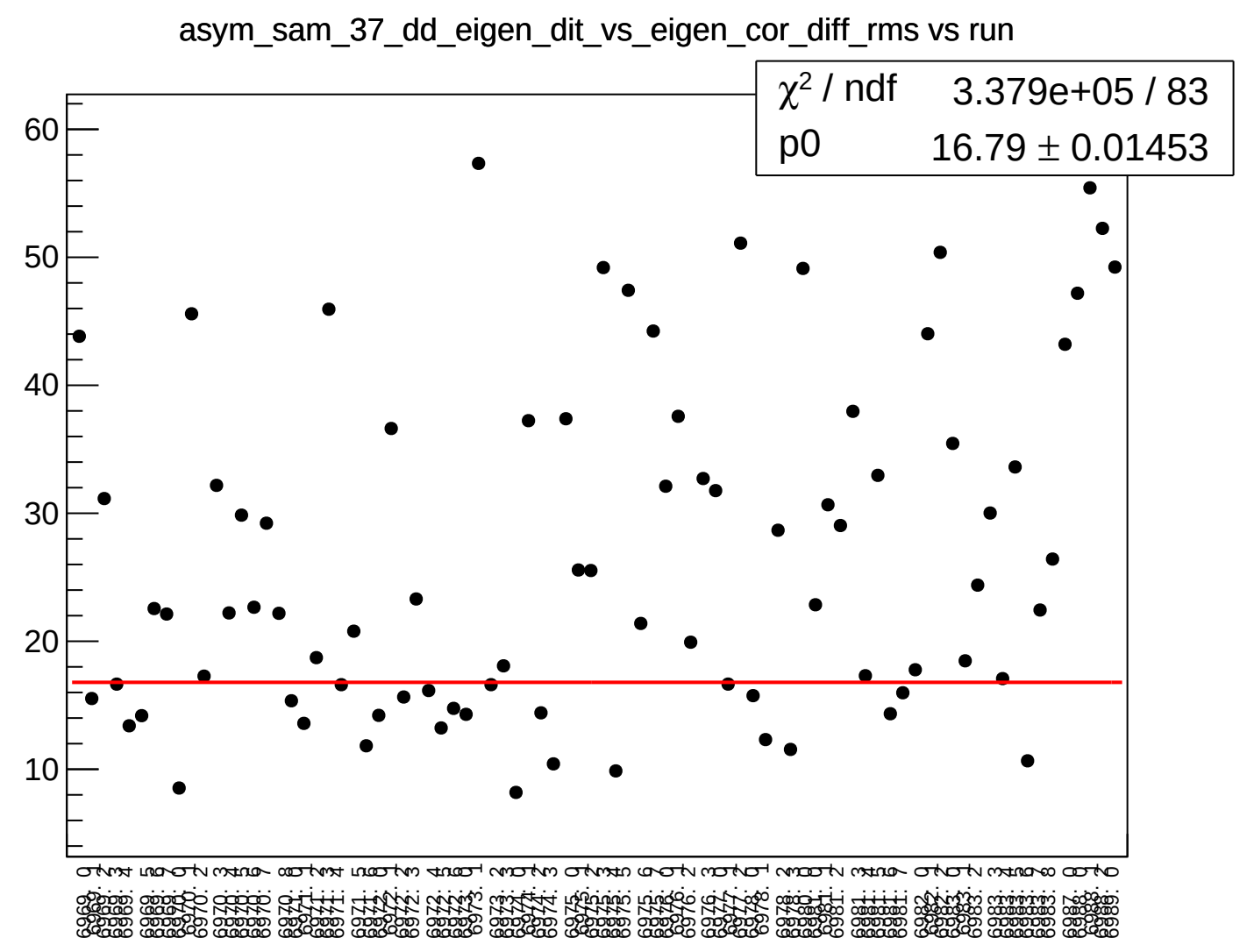

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7423 / 83
p0 0.001202 ± 9.311e−07
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105

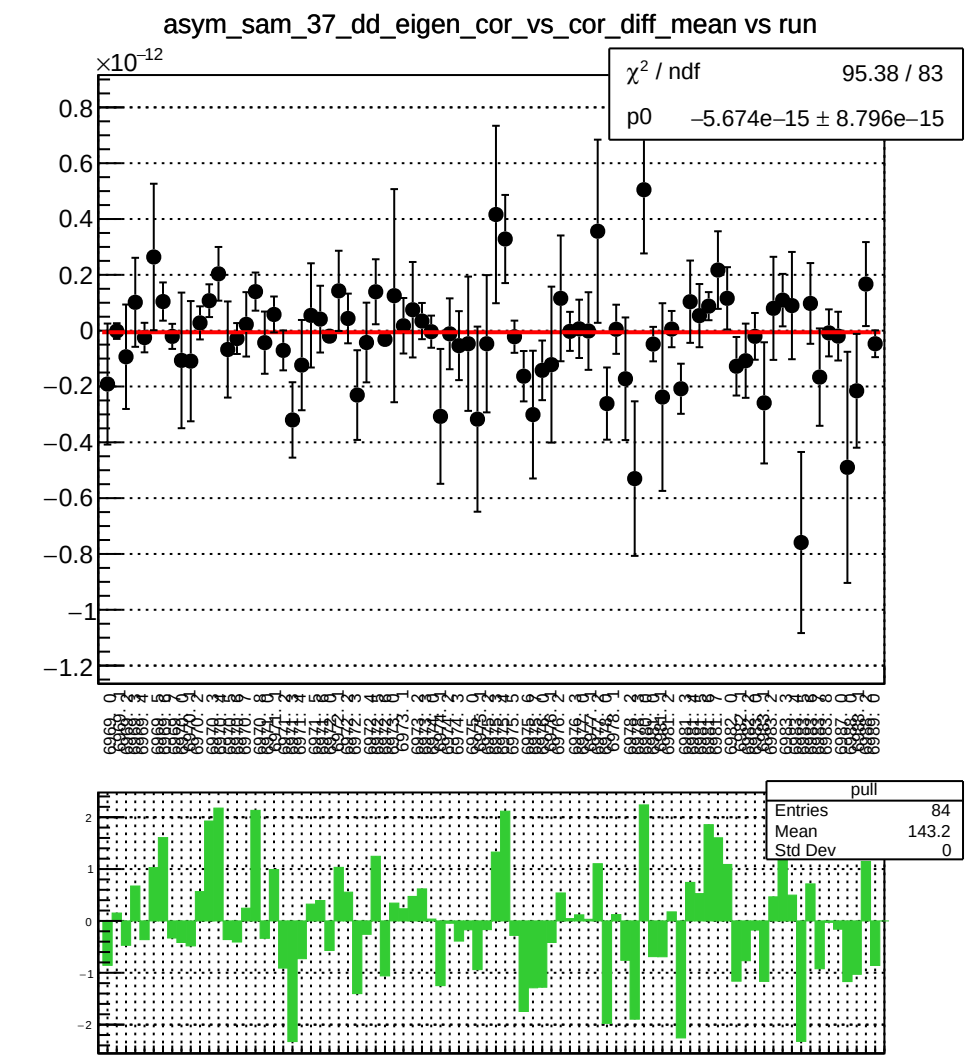

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.35 / 83
p0 −4.771e−05 ± 0.02055
pull
Entries 84
Mean 405.1
Std Dev 0
pull1D
Entries 84
Mean 0.0164
Std Dev 0.996

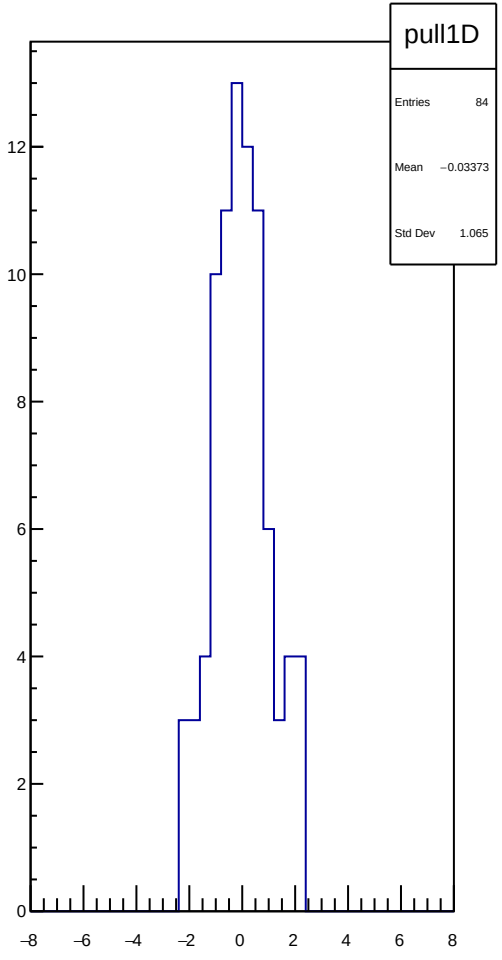

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.379e+05 / 83
p0 16.79 ± 0.01453
60
50
40
30
20
10

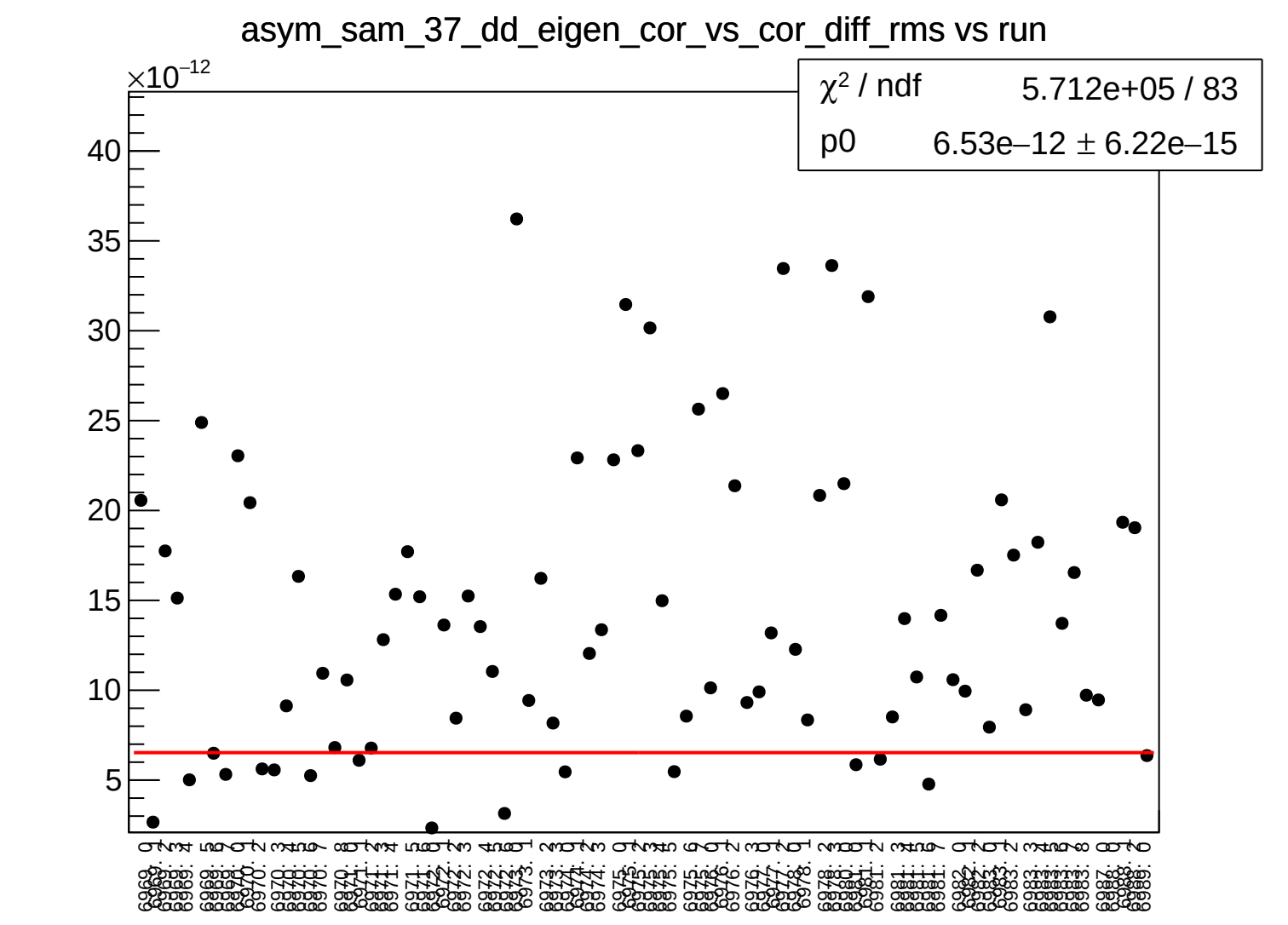

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.35 / 83
p0 −4.771e−05 ± 0.02055
pull
Entries 84
Mean 405.1
Std Dev 0

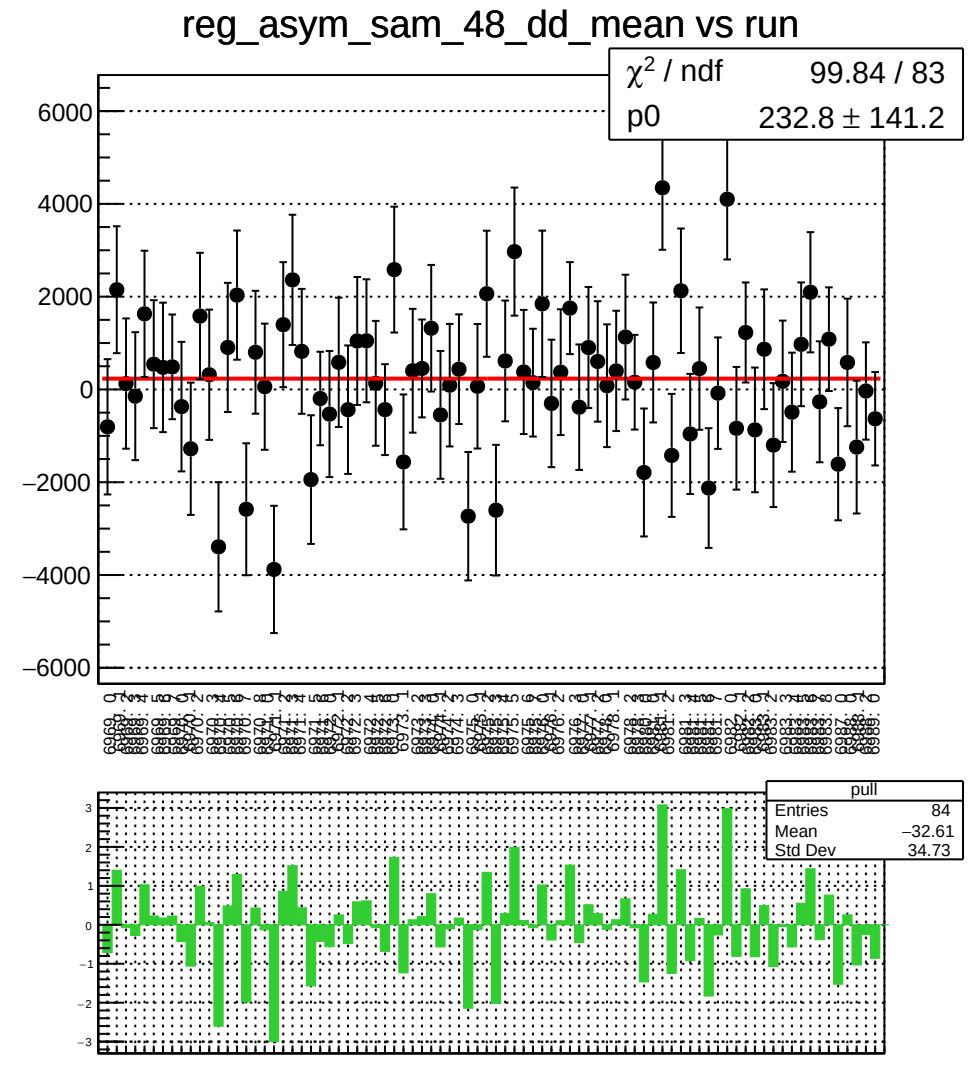

pull1D
Entries 84
Mean 0.0164
Std Dev 0.996

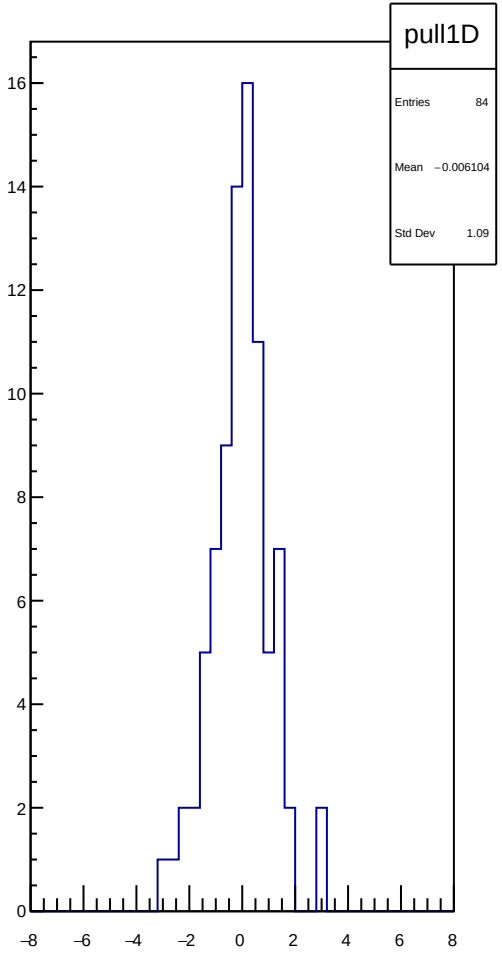

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.379e+05 / 83
p0 16.79 ± 0.01453
60
50
40
30
20
10

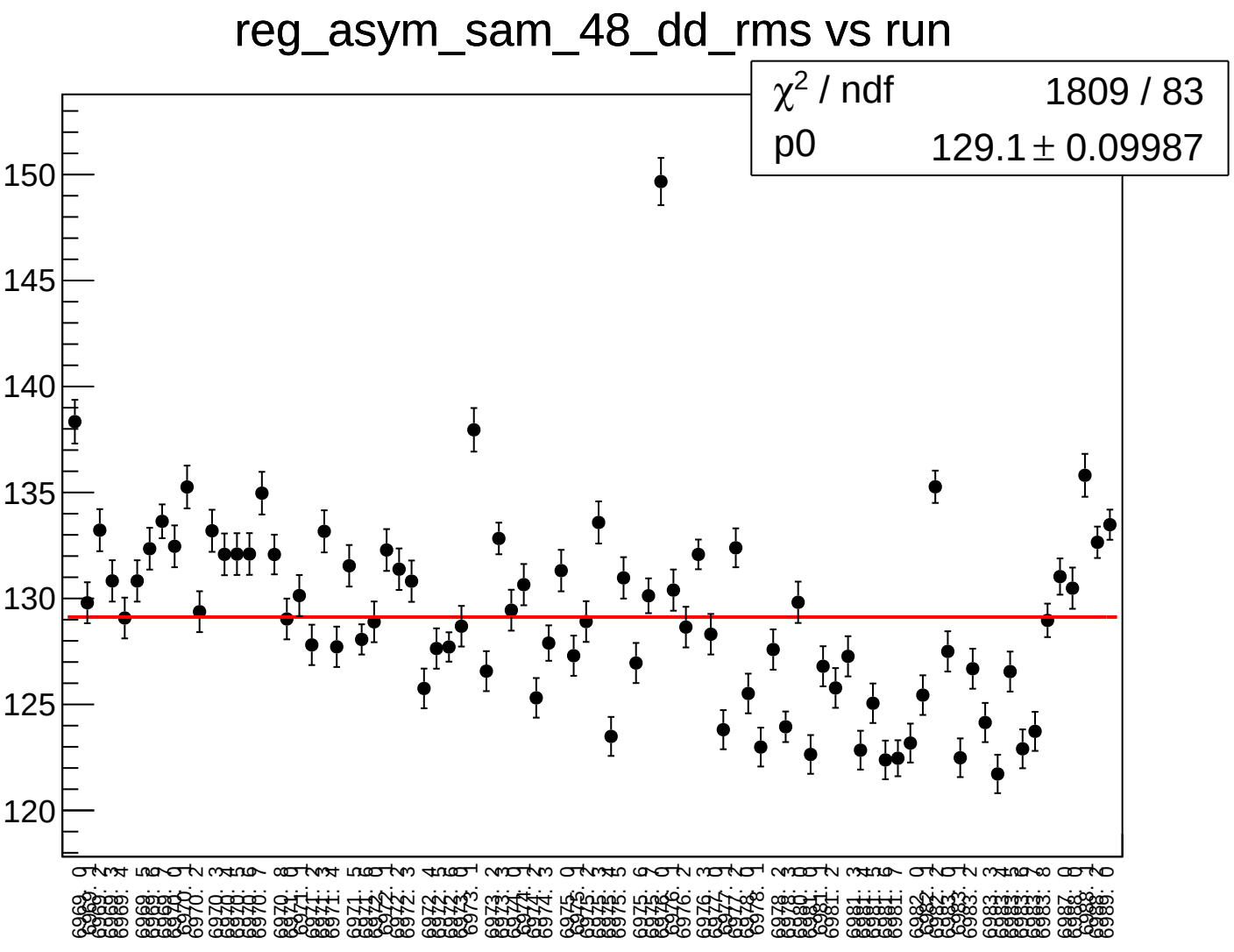

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.38 / 83
p0 −5.674e−15 ± 8.796e−15
pull
Entries 84
Mean 143.2
Std Dev 0

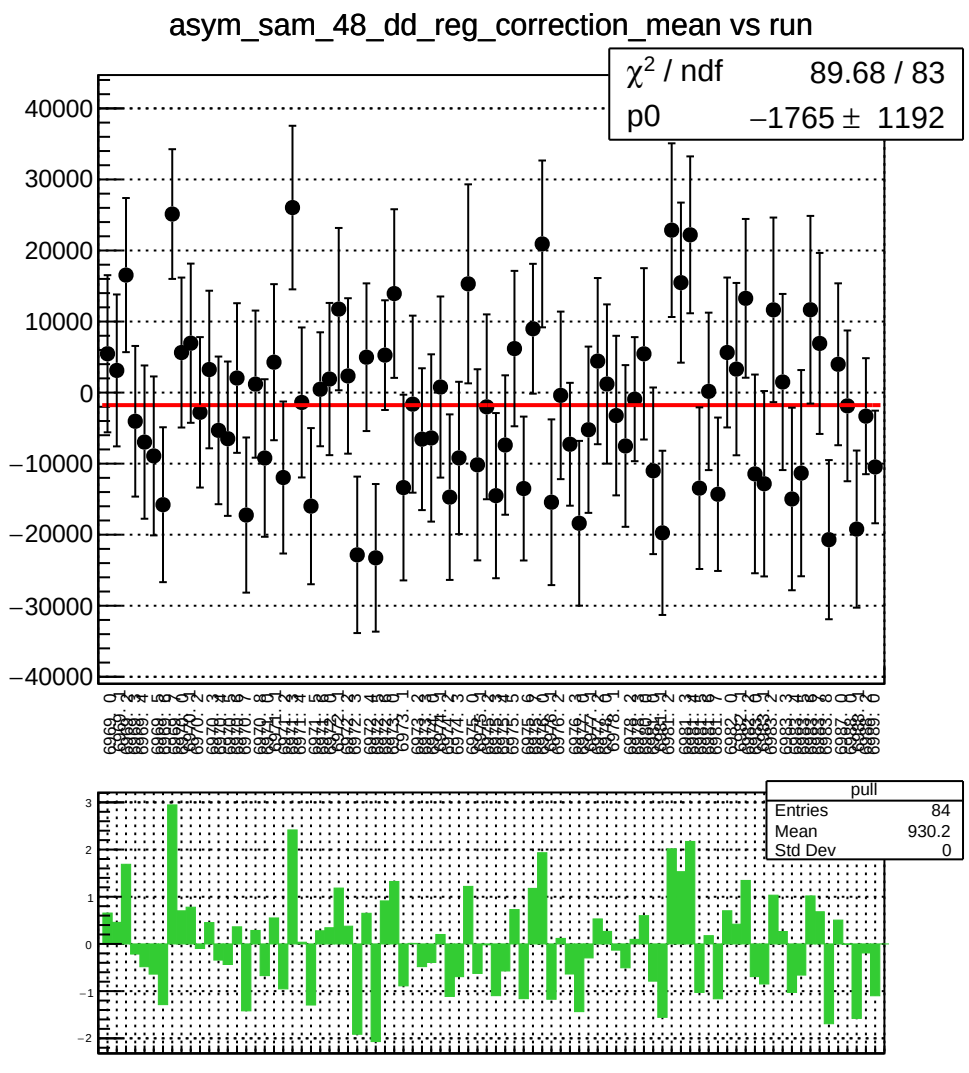

pull1D
Entries 84
Mean −0.03373
Std Dev 1.065

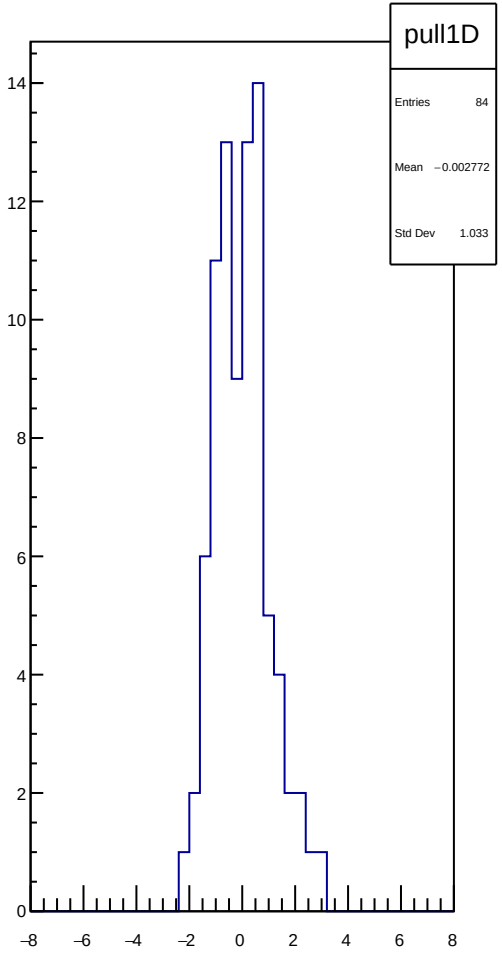

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.712e+05 / 83
p0 6.53e−12 ± 6.22e−15
40
35
30
25
20
15
10
5

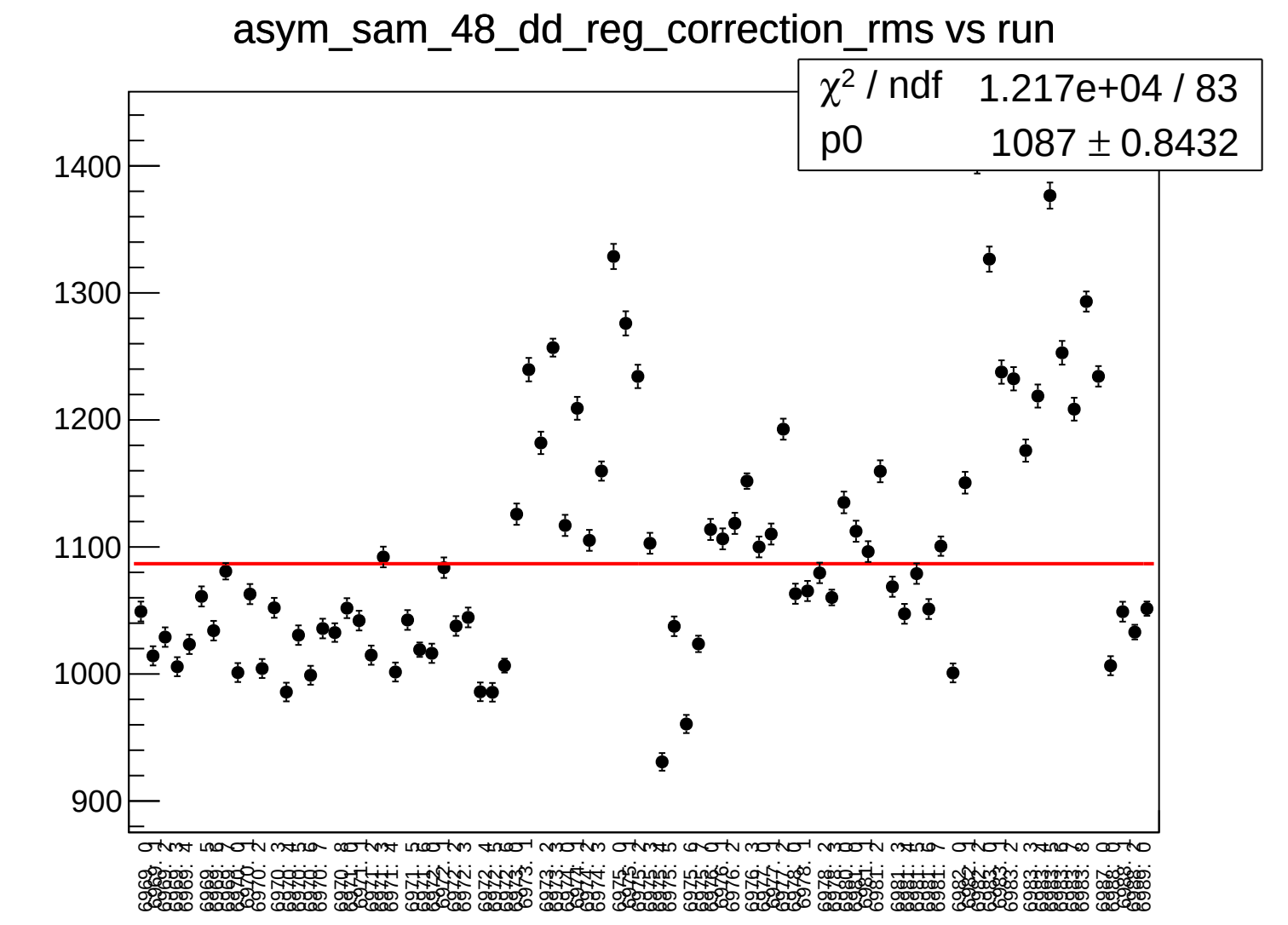

reg_asym_sam_48_dd_mean vs run
χ² / ndf 99.84 / 83
p0 232.8 ± 141.2
pull
Entries 84
Mean −32.61
Std Dev 34.73

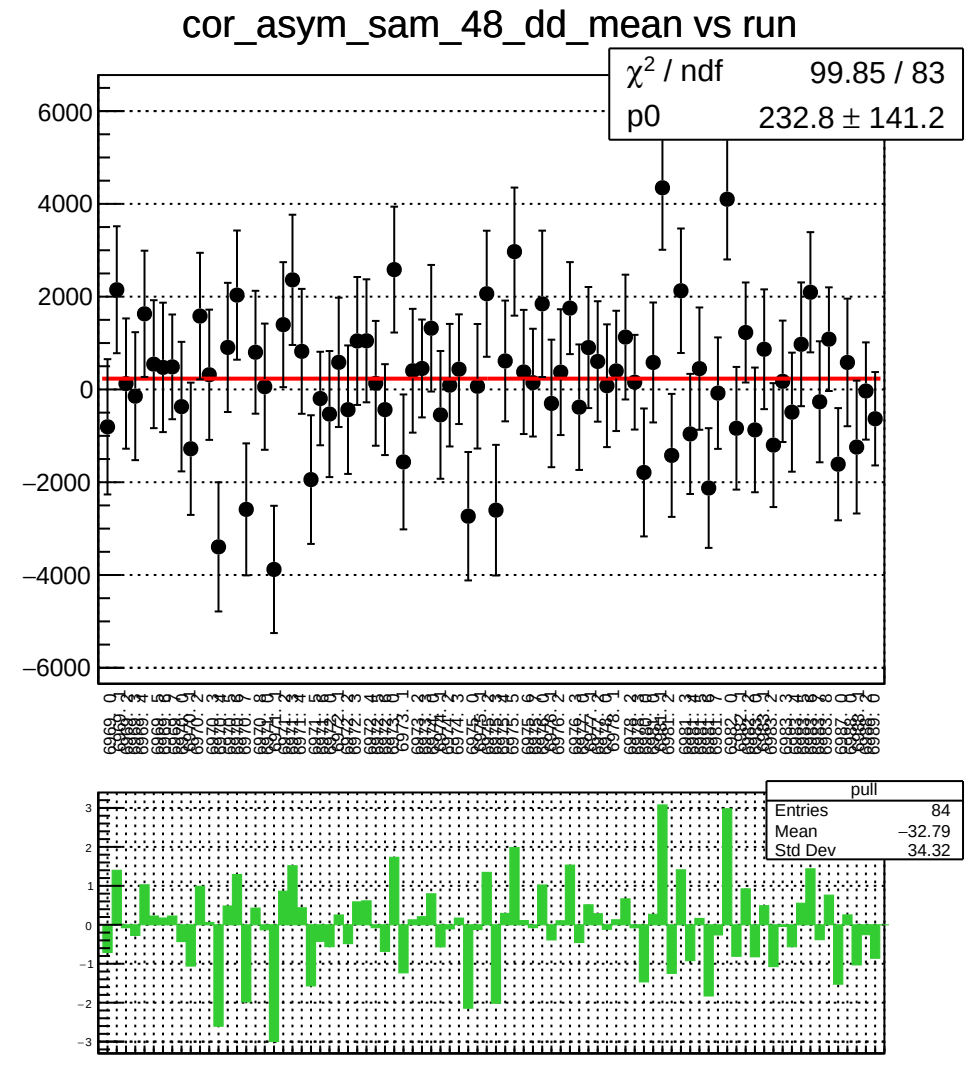

pull1D
Entries 84
Mean −0.006104
Std Dev 1.09

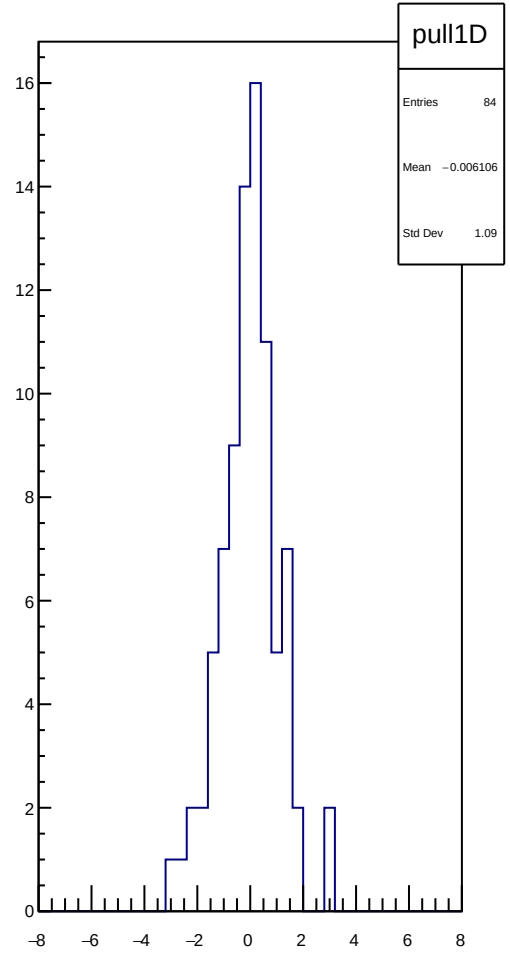

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 1809 / 83
p0 129.1 ± 0.09987
150
145
140
135
130
125
120

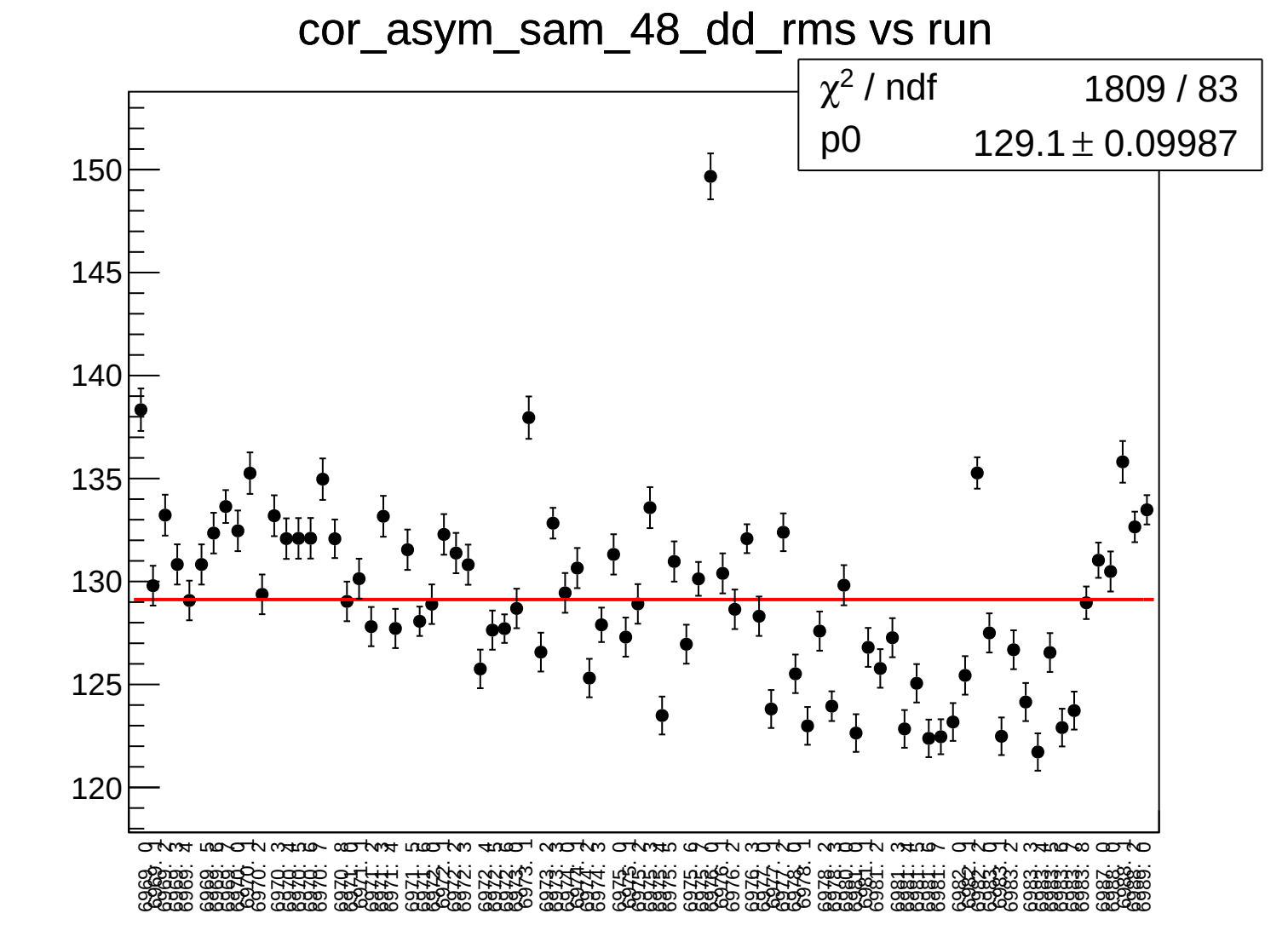

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 89.68 / 83
p0 −1765 ± 1192
pull
Entries 84
Mean 930.2
Std Dev 0

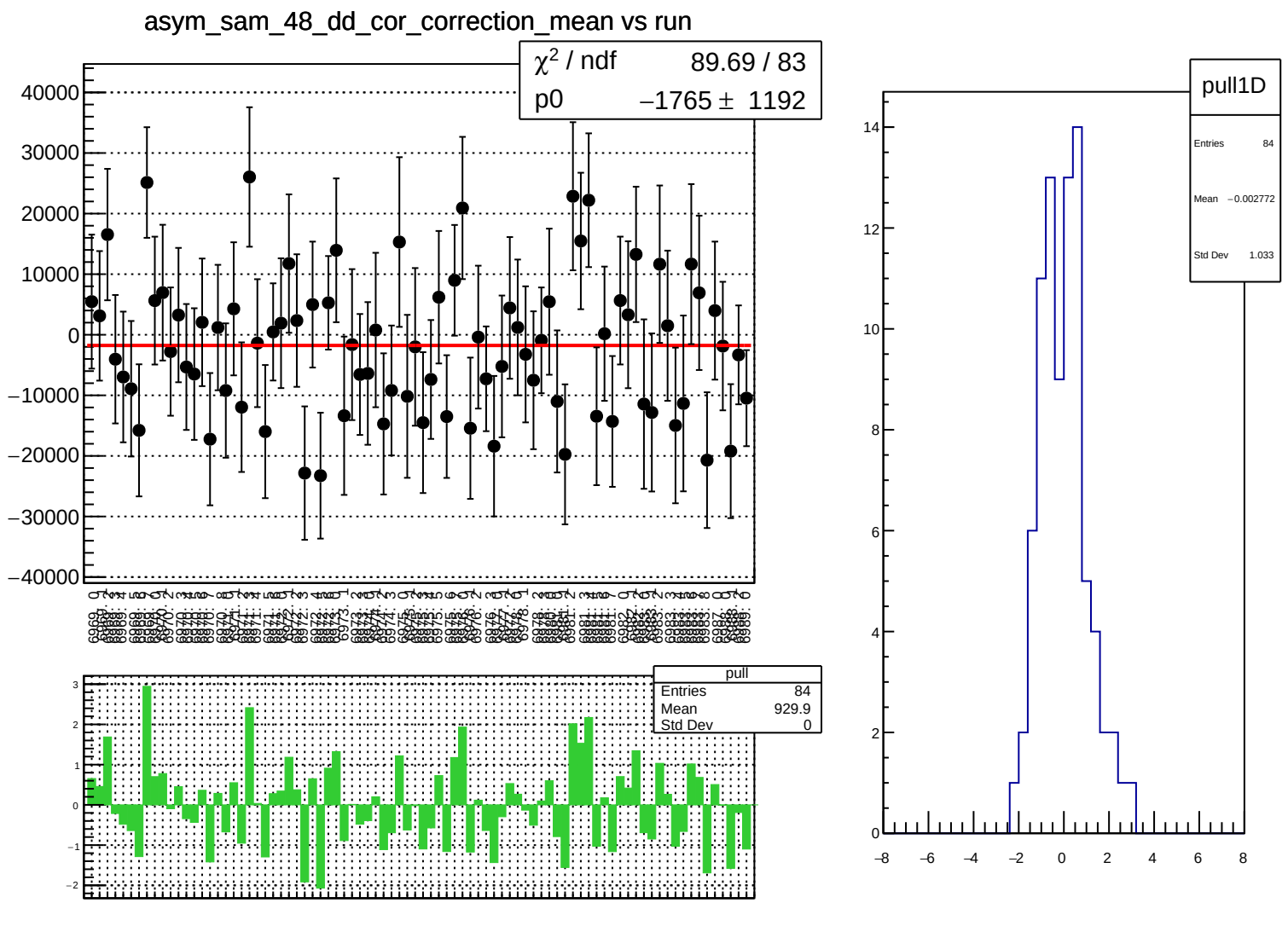

pull1D
Entries 84
Mean −0.002772
Std Dev 1.033

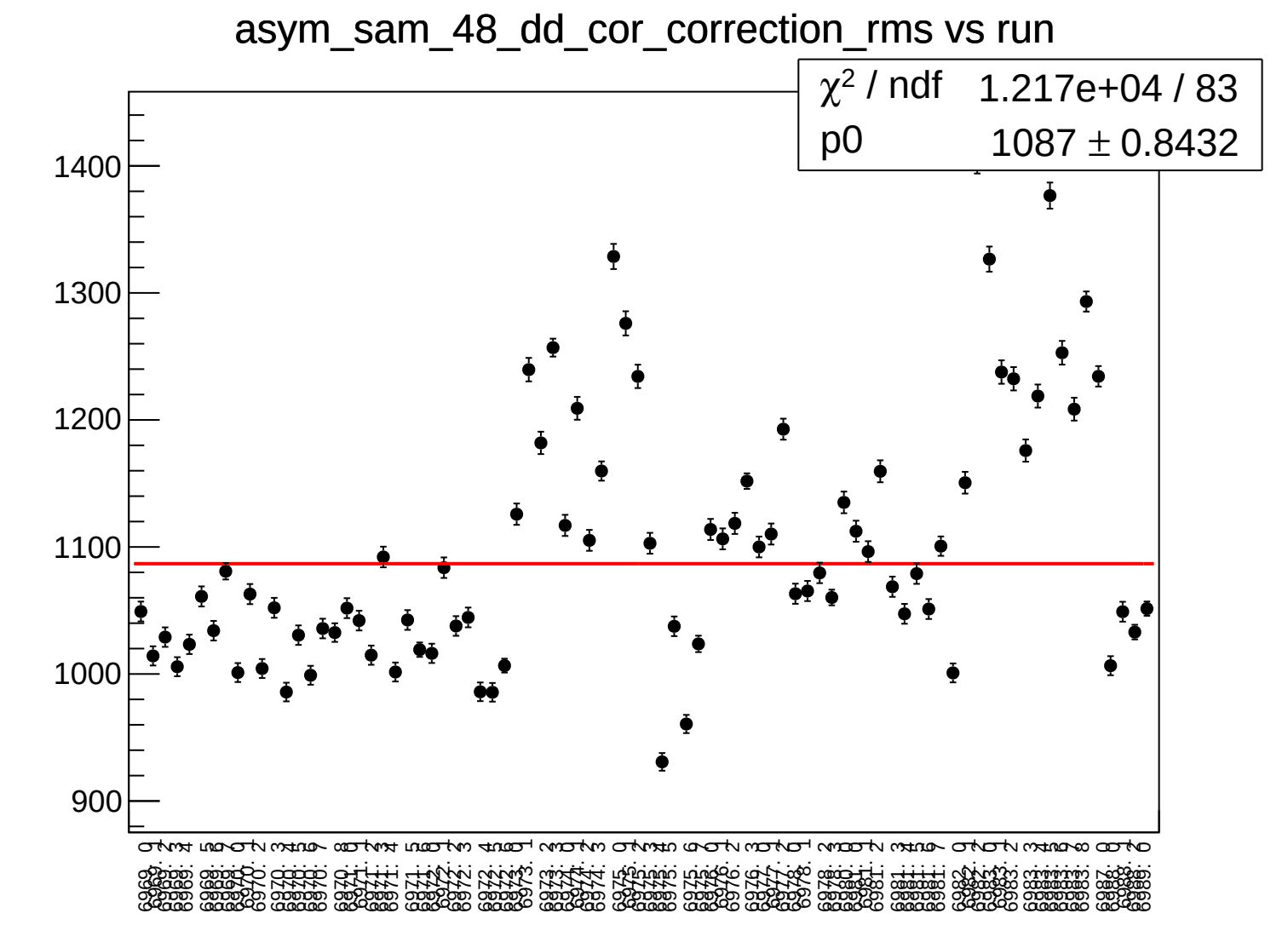

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1.217e+04 / 83
p0 1087 ± 0.8432
1400
1300
1200
1100
1000
900

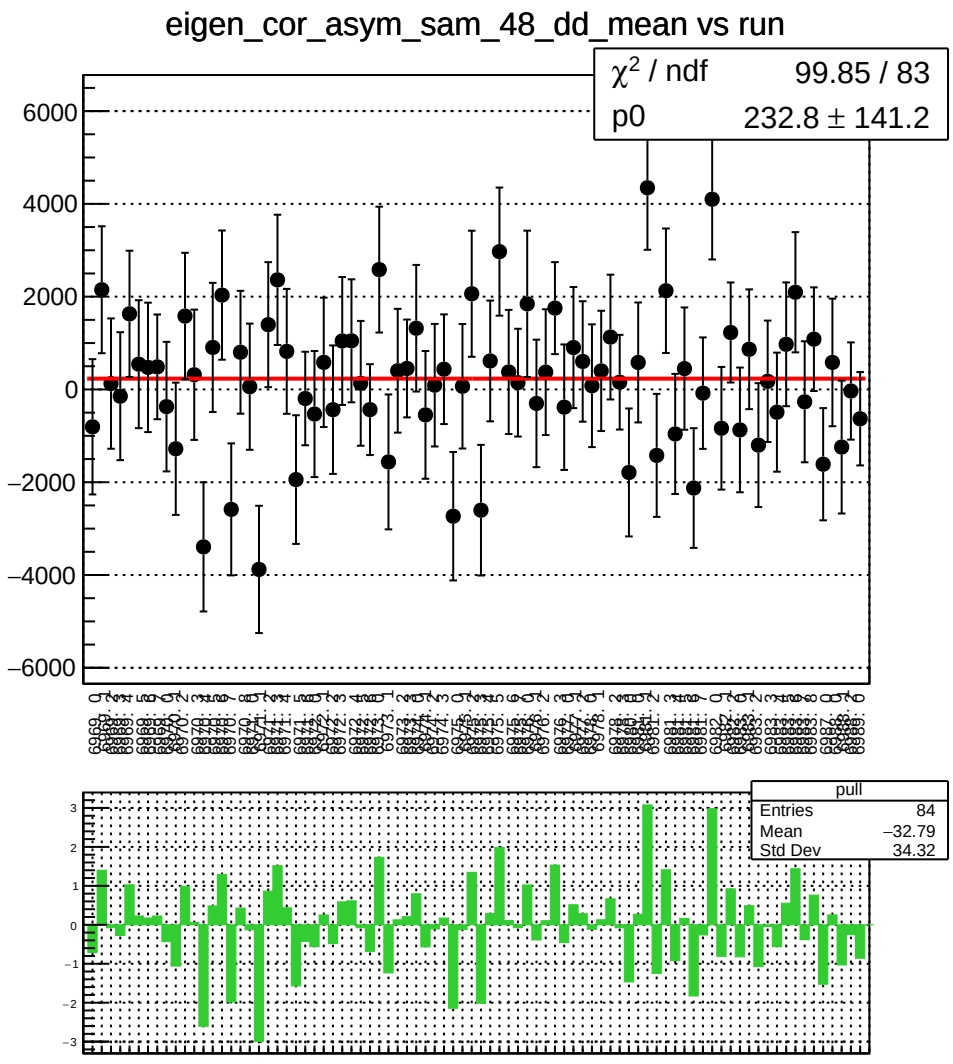

cor_asym_sam_48_dd_mean vs run
χ² / ndf 99.85 / 83
p0 232.8 ± 141.2
pull
Entries 84
Mean −32.79
Std Dev 34.32

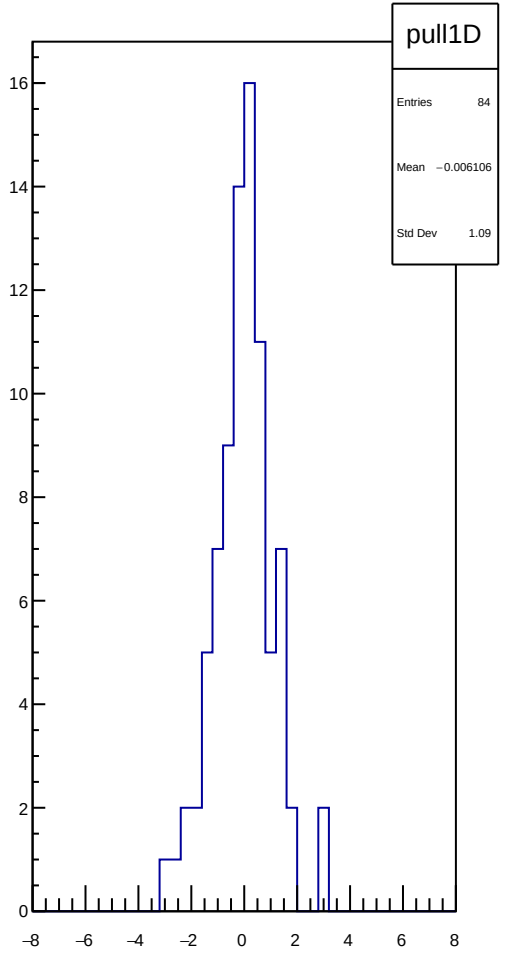

pull1D
Entries 84
Mean −0.006106
Std Dev 1.09

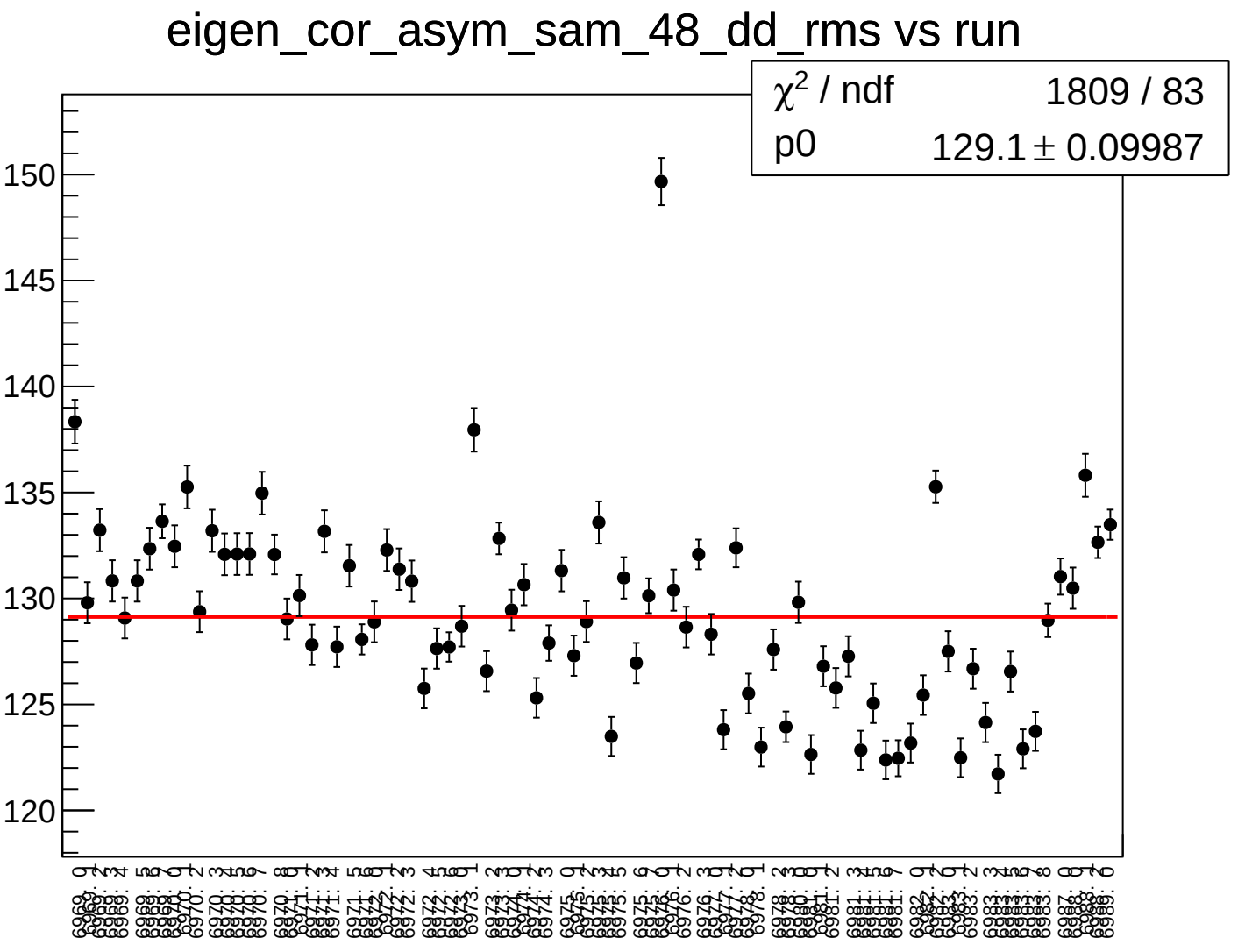

cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 1809 / 83
p0 129.1 ± 0.09987
150
145
140
135
130
125
120

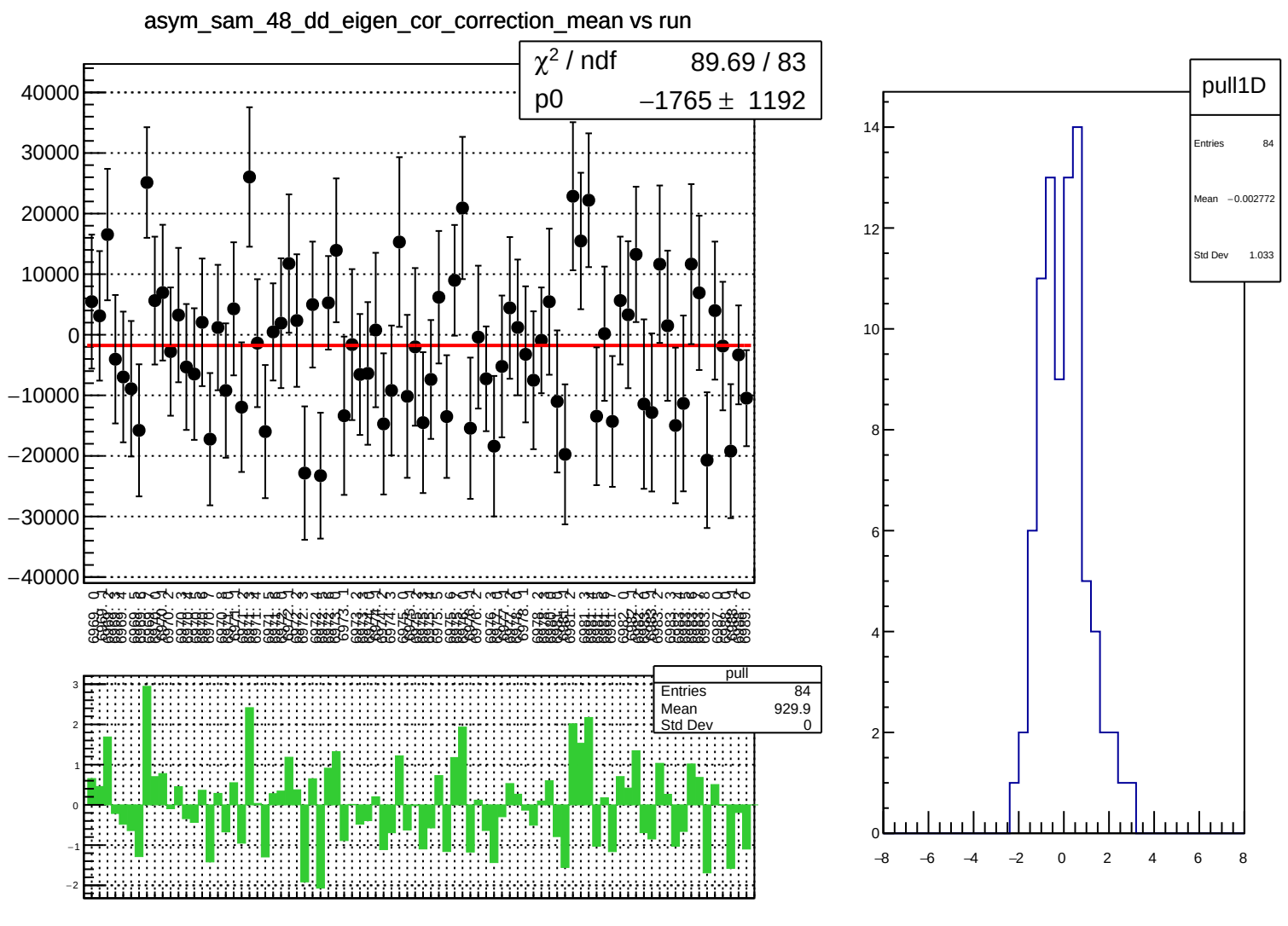

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 89.69 / 83
p0 −1765 ± 1192
pull
Entries 84
Mean 929.9
Std Dev 0
pull1D
Entries 84
Mean −0.002772
Std Dev 1.033

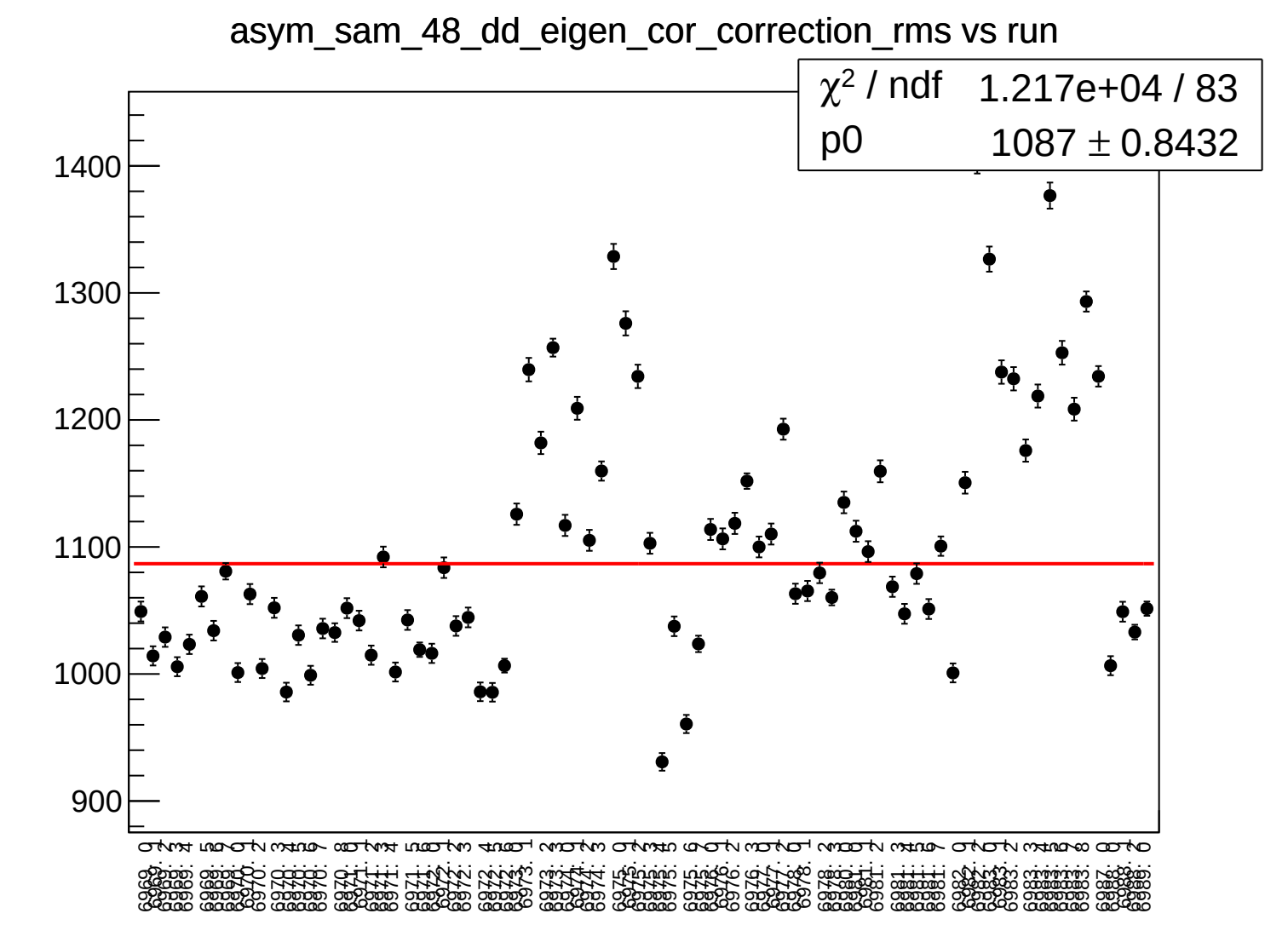

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.217e+04 / 83
p0 1087 ± 0.8432
1400
1300
1200
1100
1000
900

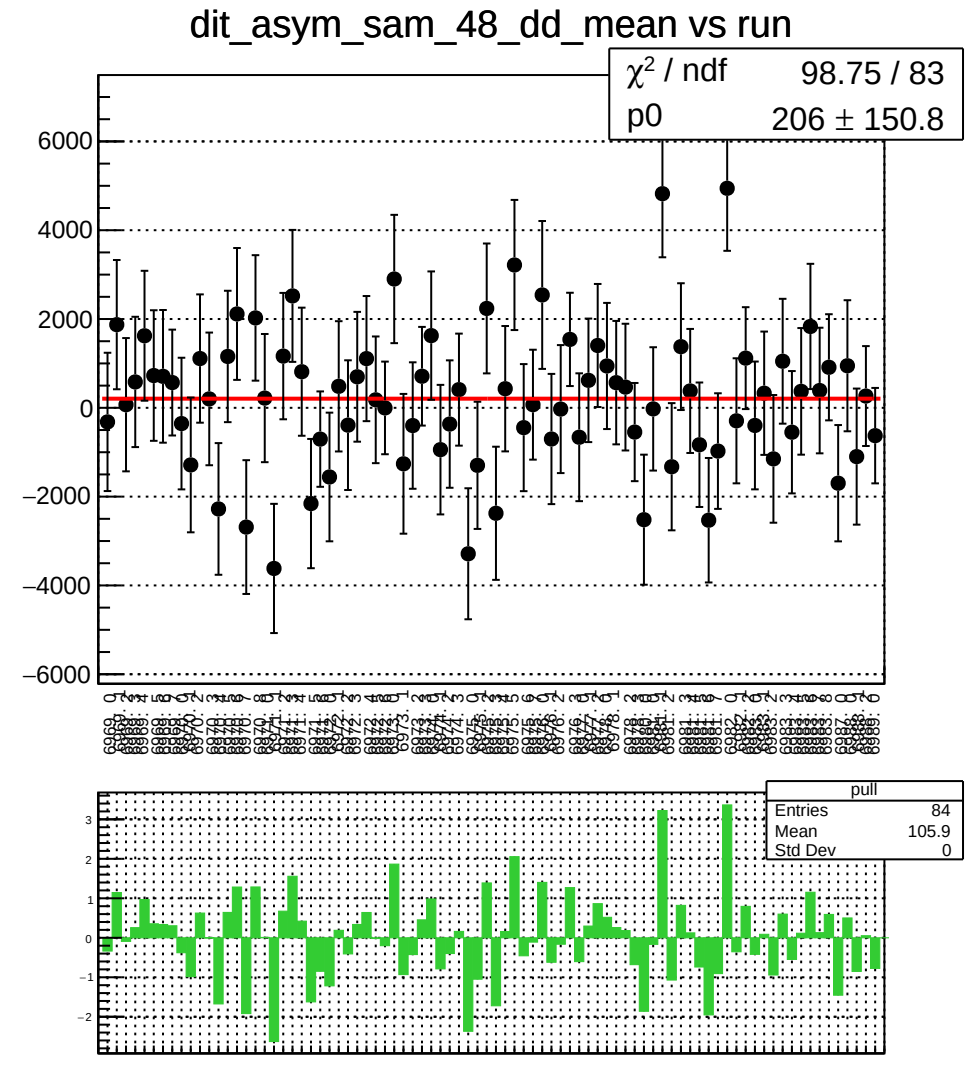

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 99.85 / 83
p0 232.8 ± 141.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean −32.79
Std Dev 34.32
3
2
1
0
−1
−2
−3

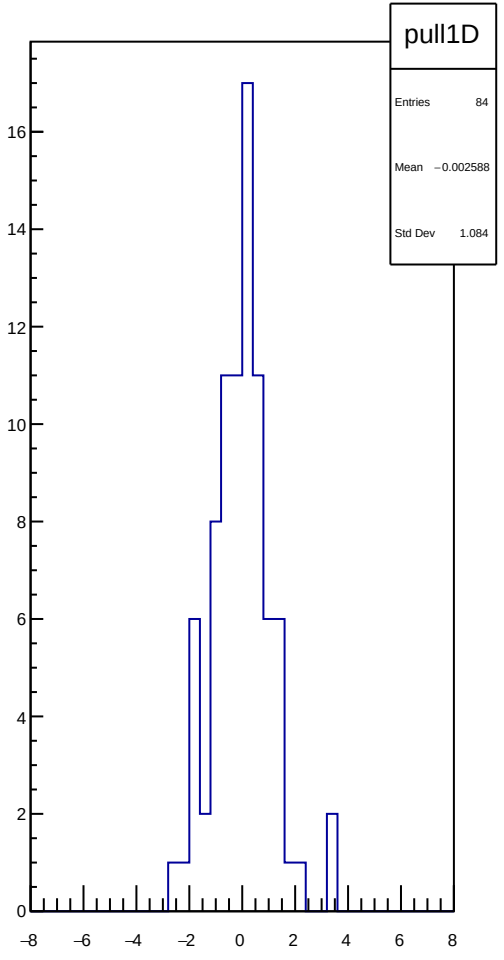

pull1D
Entries 84
Mean −0.006106
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

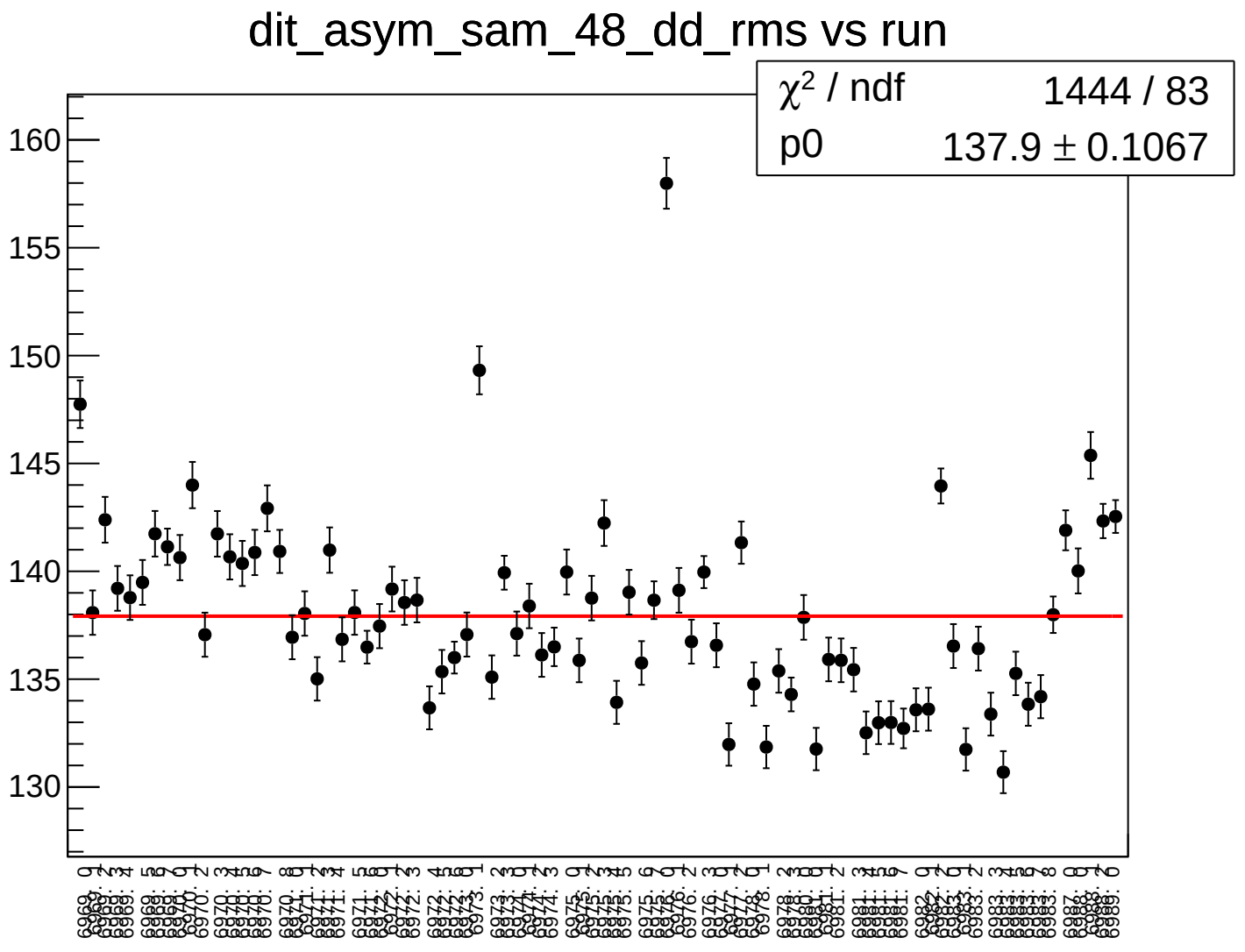

eigen_cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 1809 / 83
p0 129.1 ± 0.09987
150
145
140
135
130
125
120

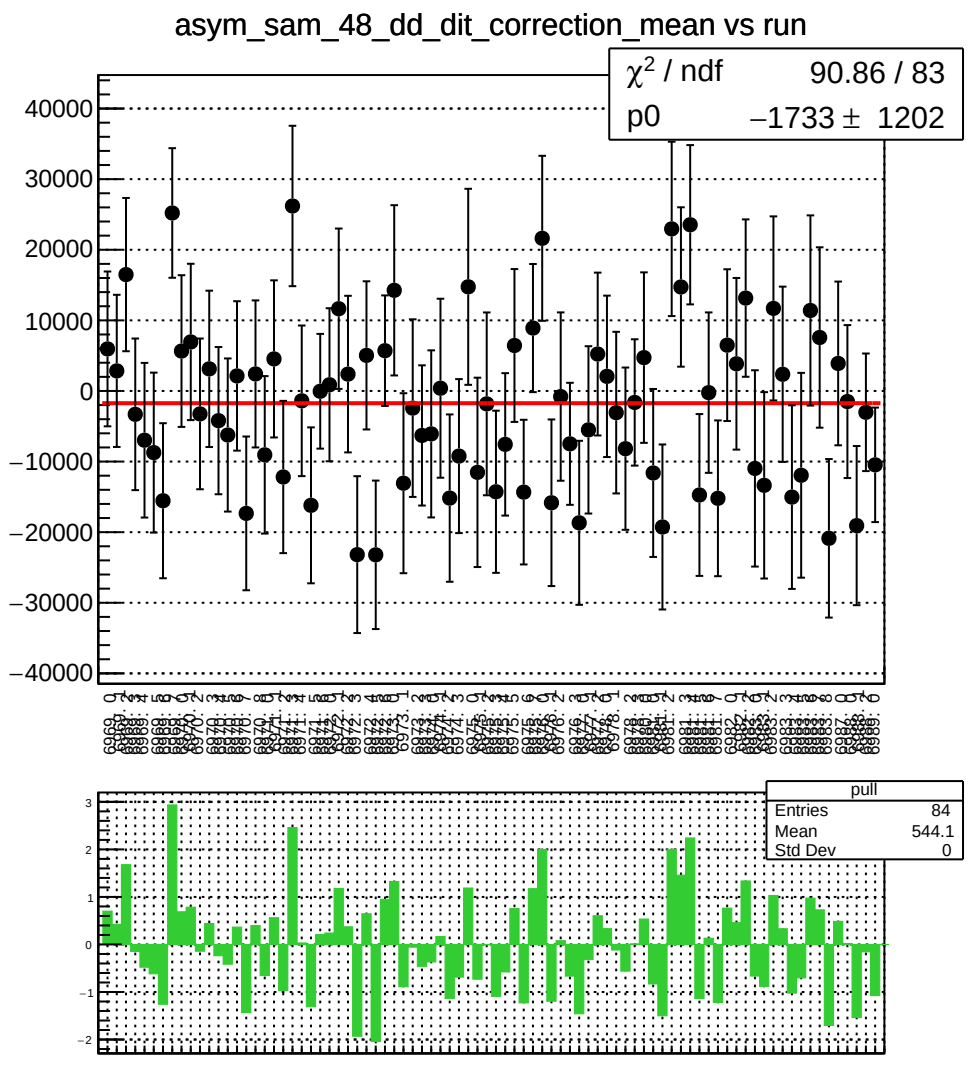

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.69 / 83
p0 −1765 ± 1192
pull
Entries 84
Mean 929.9
Std Dev 0
pull1D
Entries 84
Mean −0.002772
Std Dev 1.033

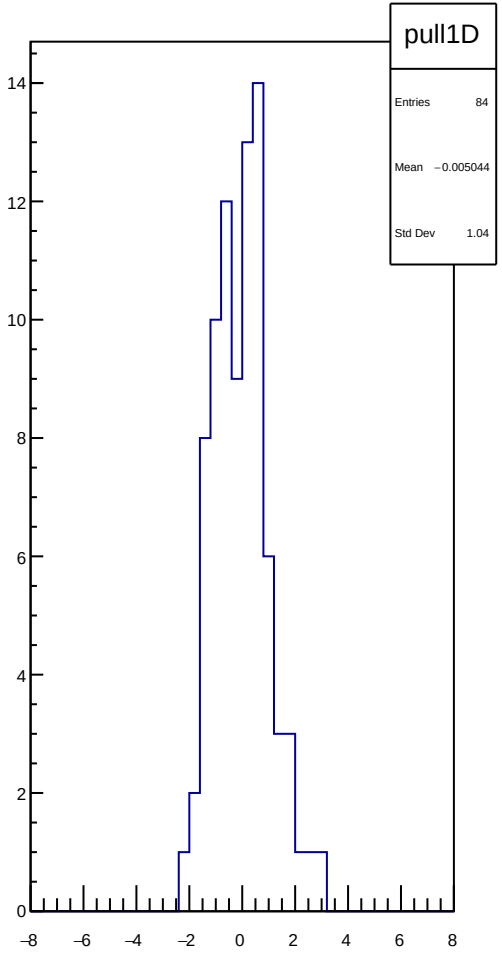

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.217e+04 / 83
p0 1087 ± 0.8432
1400
1300
1200
1100
1000
900

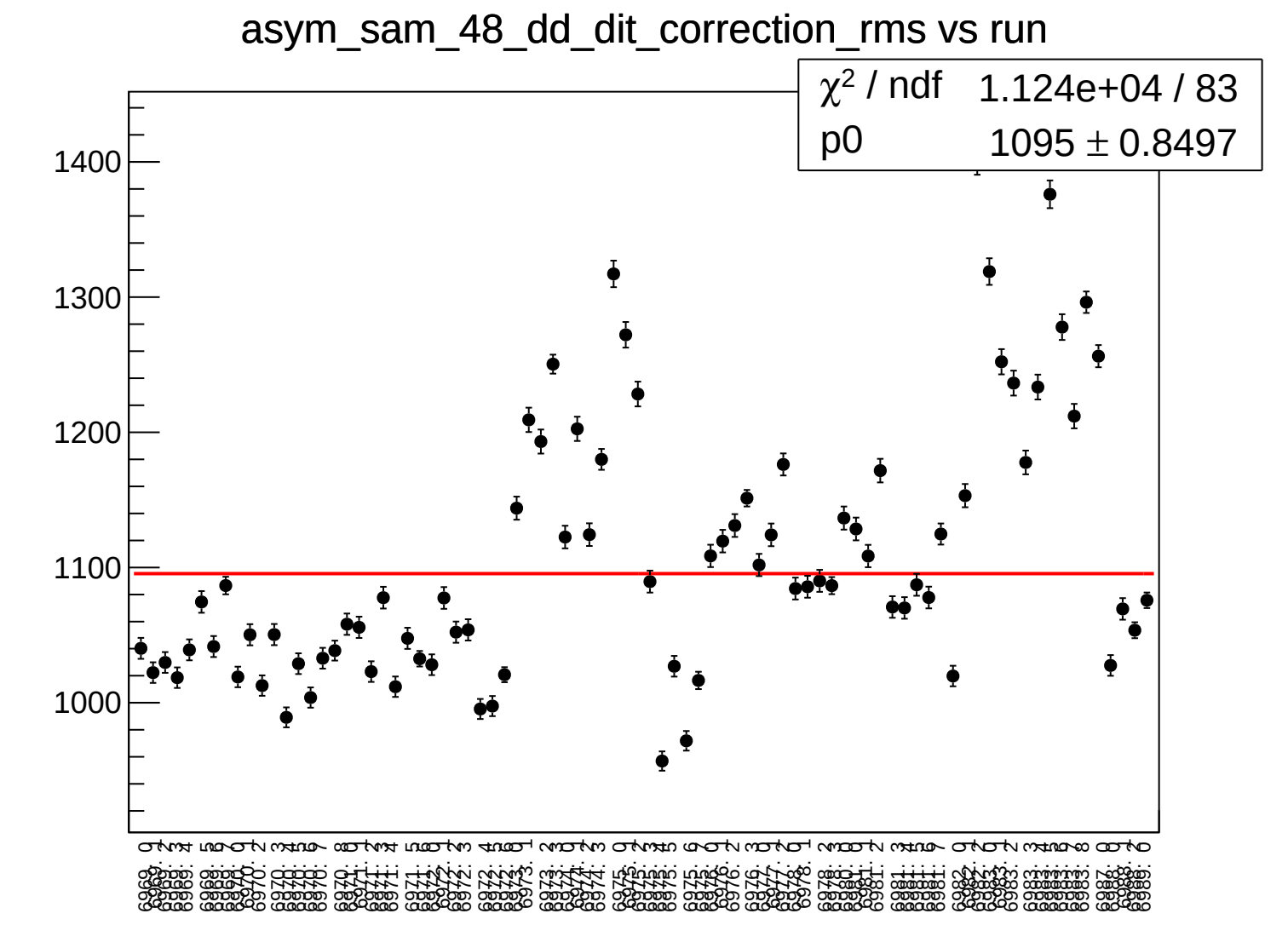

dit_asym_sam_48_dd_mean vs run
χ² / ndf 98.75 / 83
p0 206 ± 150.8
pull
Entries 84
Mean 105.9
Std Dev 0

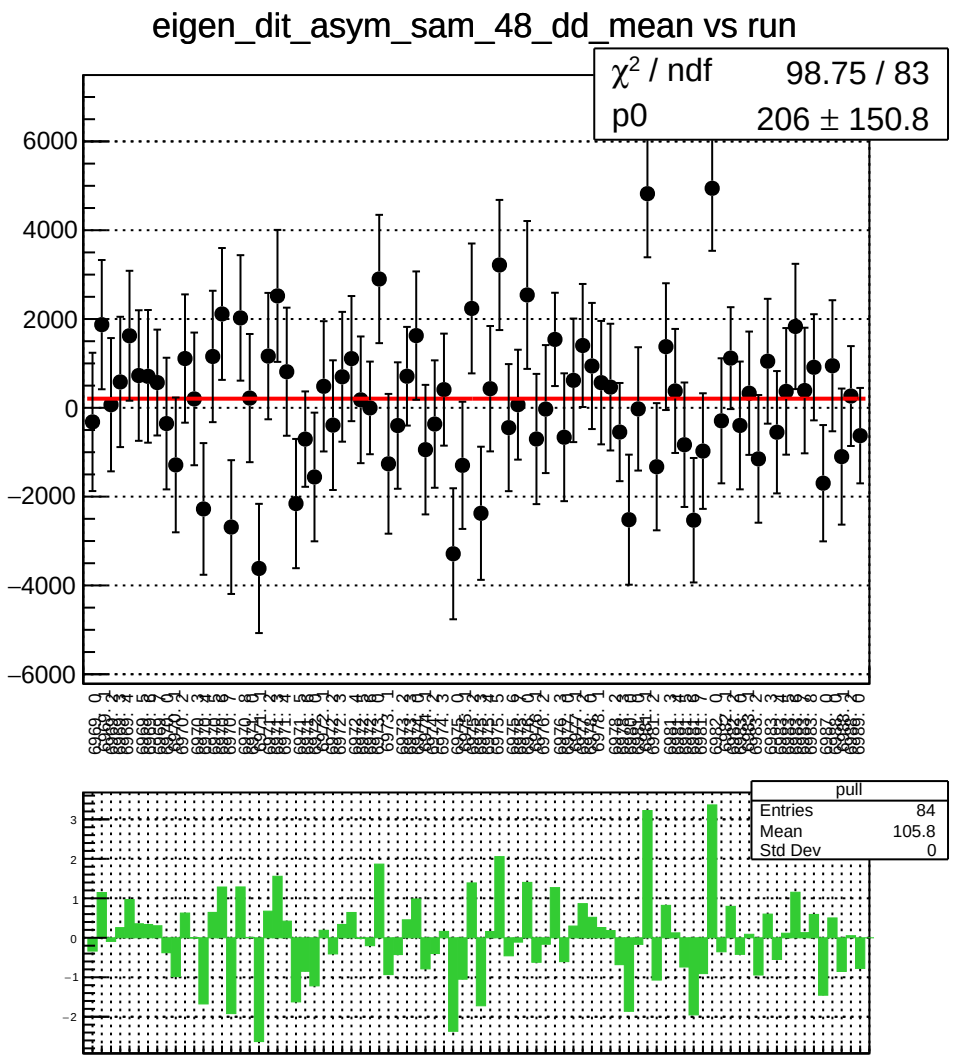

pull1D
Entries 84
Mean −0.002588
Std Dev 1.084

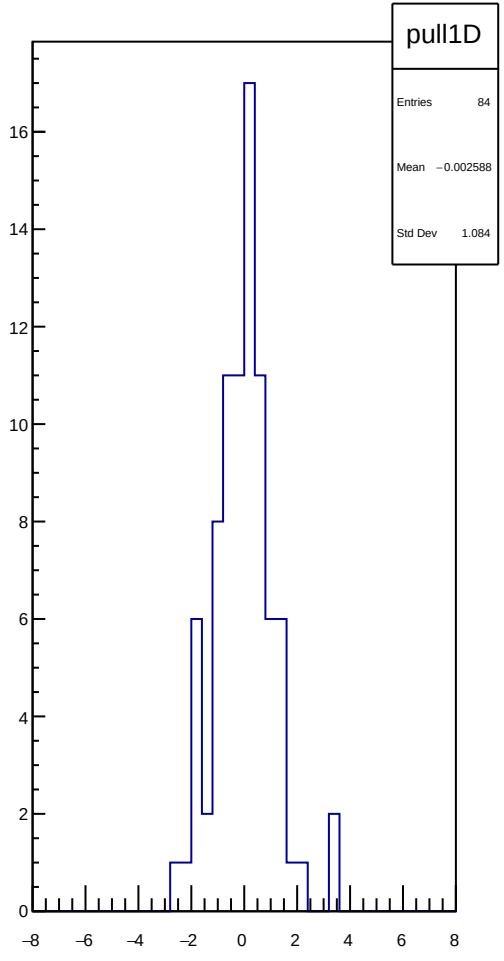

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1444 / 83
p0 137.9 ± 0.1067
160
155
150
145
140
135
130

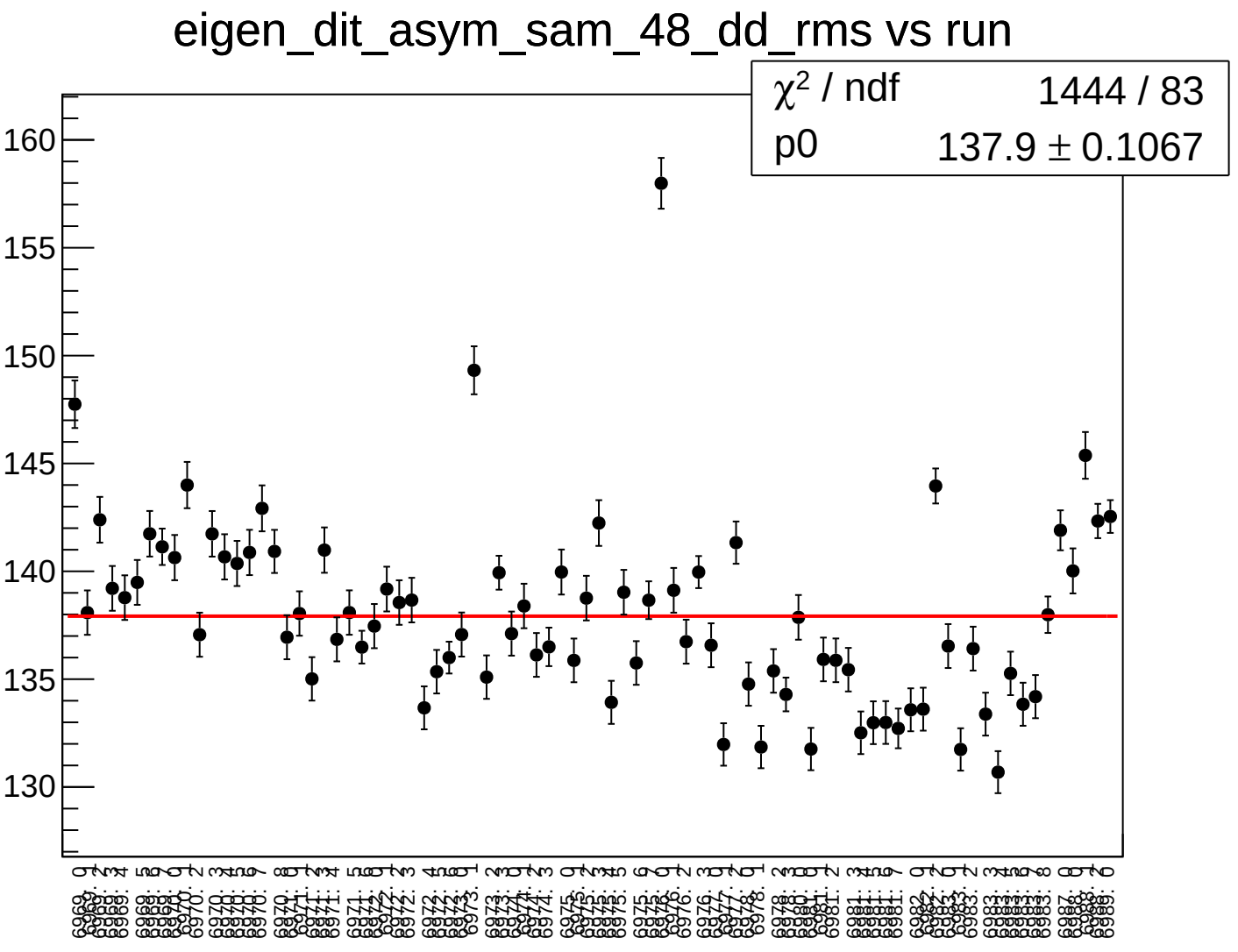

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 90.86 / 83
p0 −1733 ± 1202
pull
Entries 84
Mean 544.1
Std Dev 0

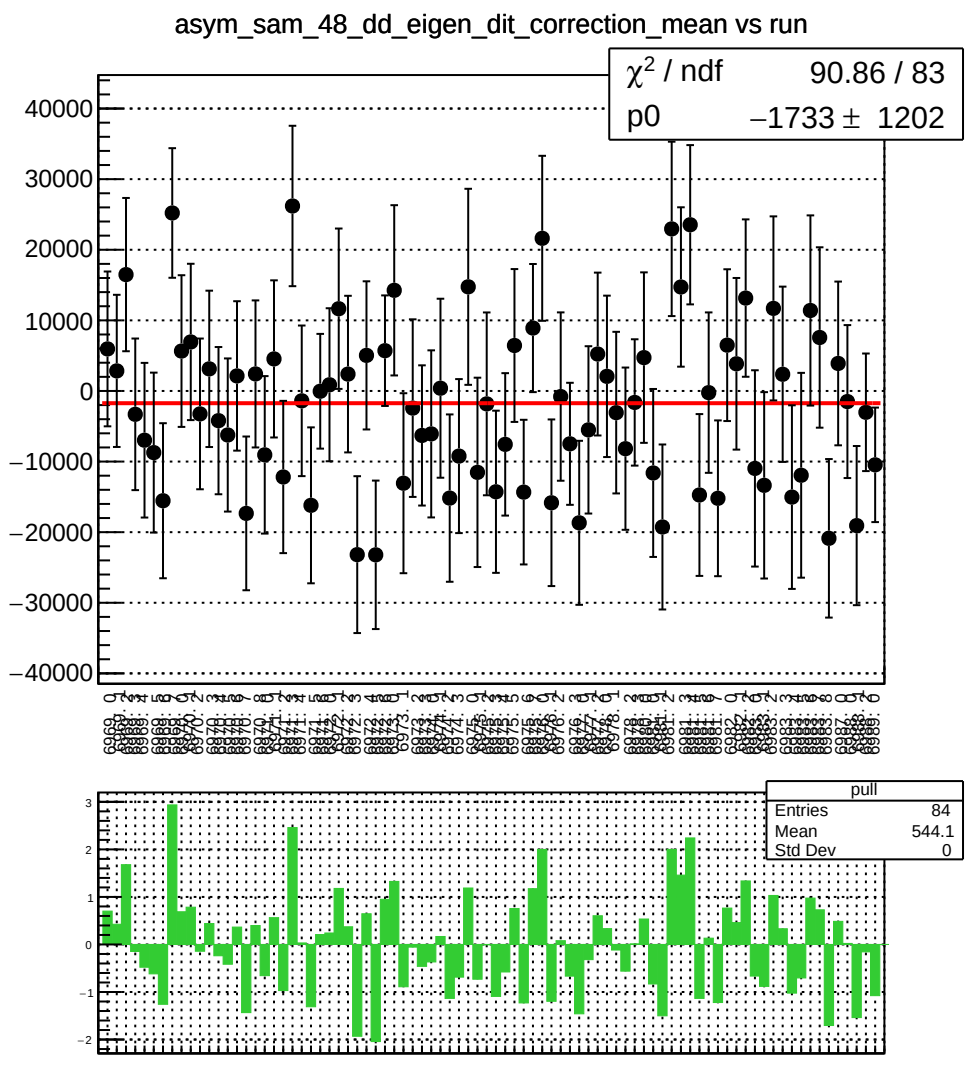

pull1D
Entries 84
Mean −0.005044
Std Dev 1.04

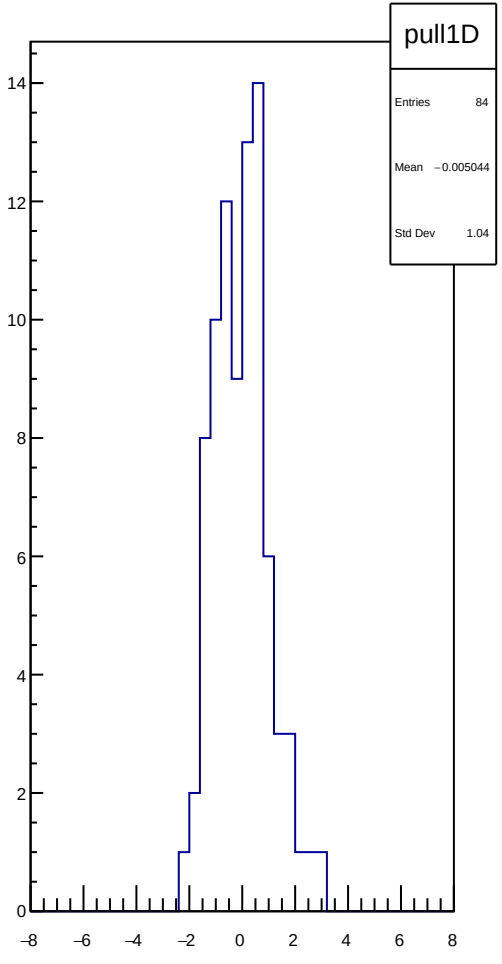

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1.124e+04 / 83
p0 1095 ± 0.8497
1400
1300
1200
1100
1000

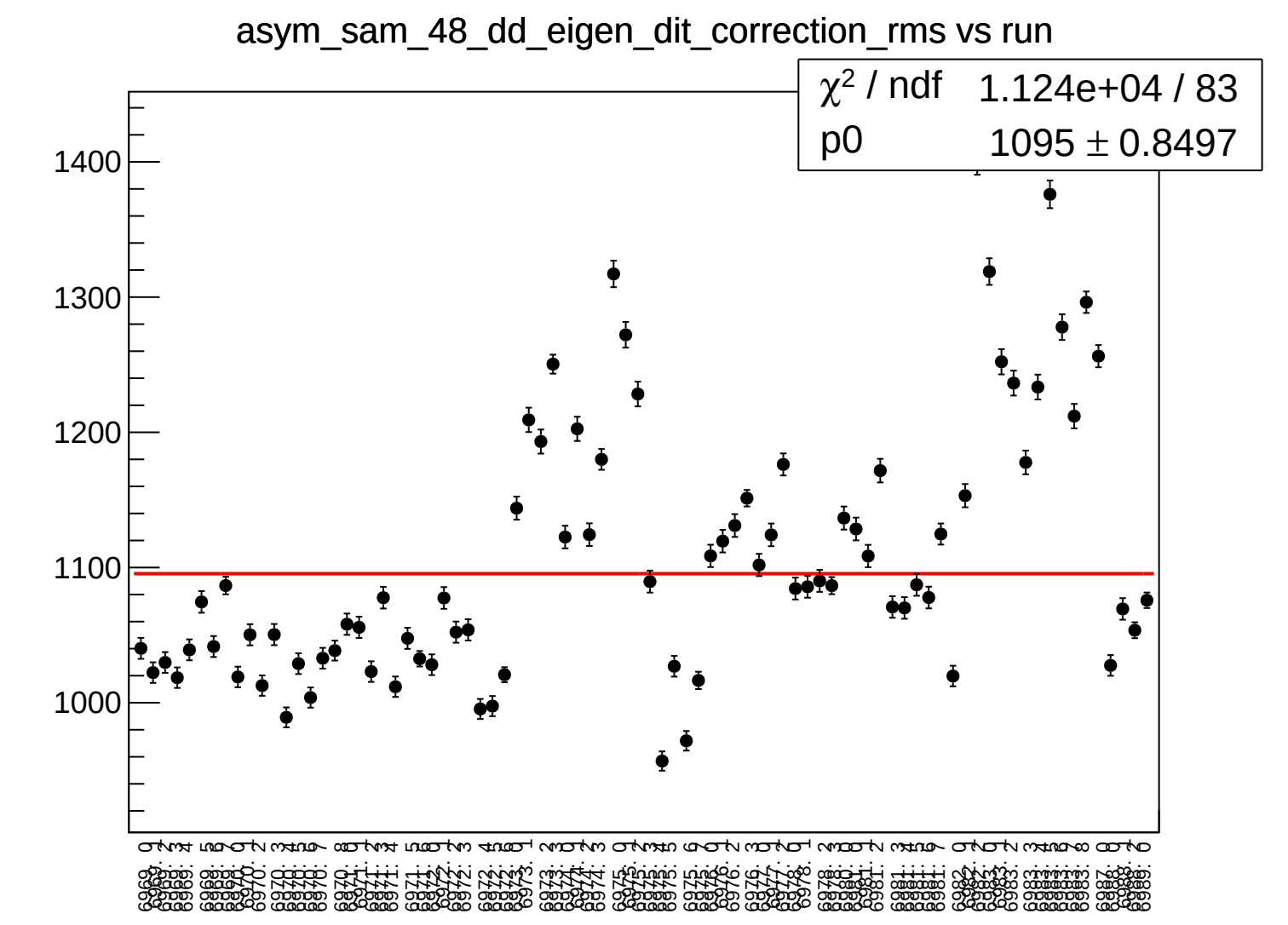

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 98.75 / 83
p0 206 ± 150.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 105.8
Std Dev 0
3
2
1
0
−1
−2

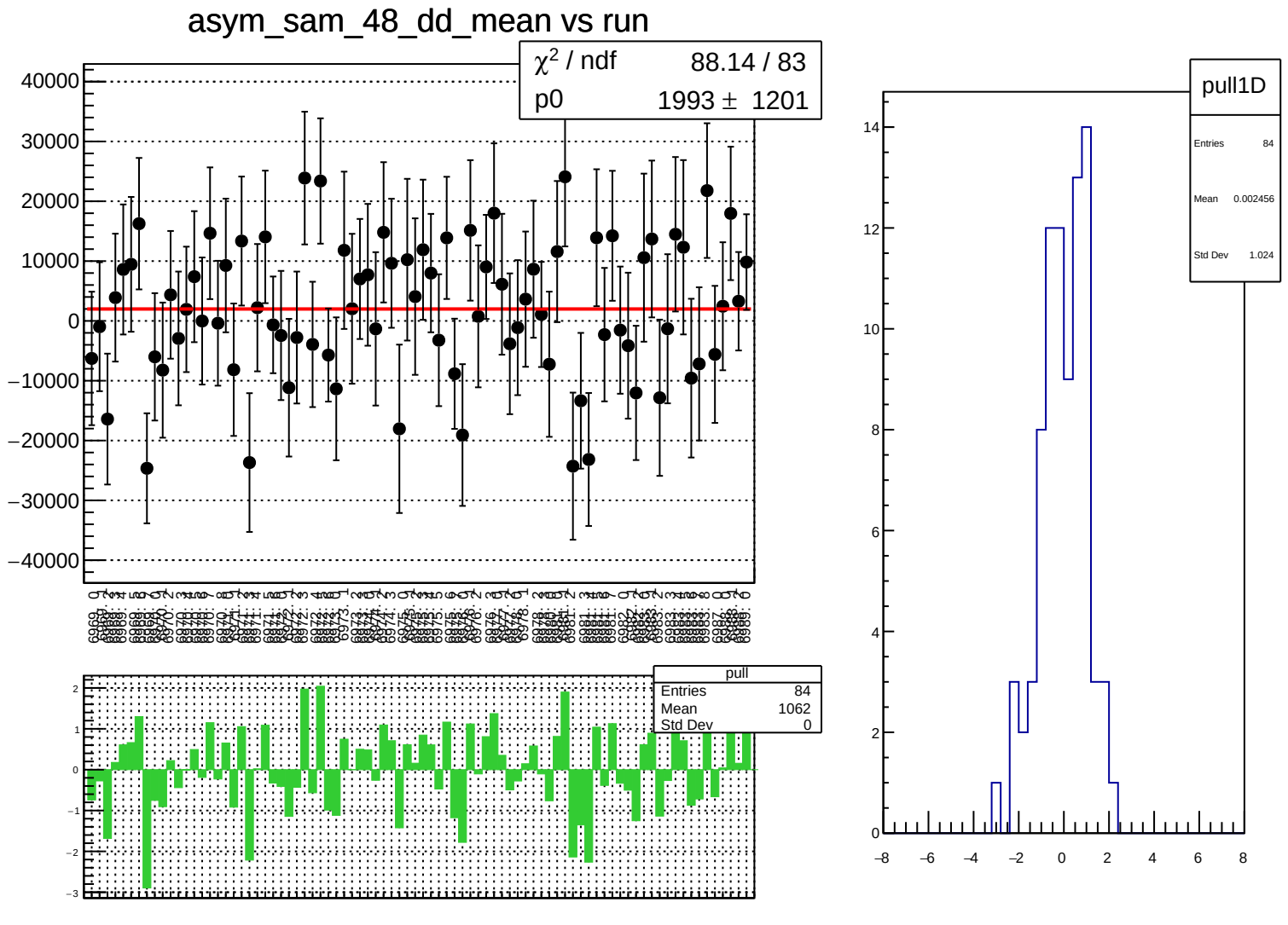

pull1D
Entries 84
Mean −0.002588
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

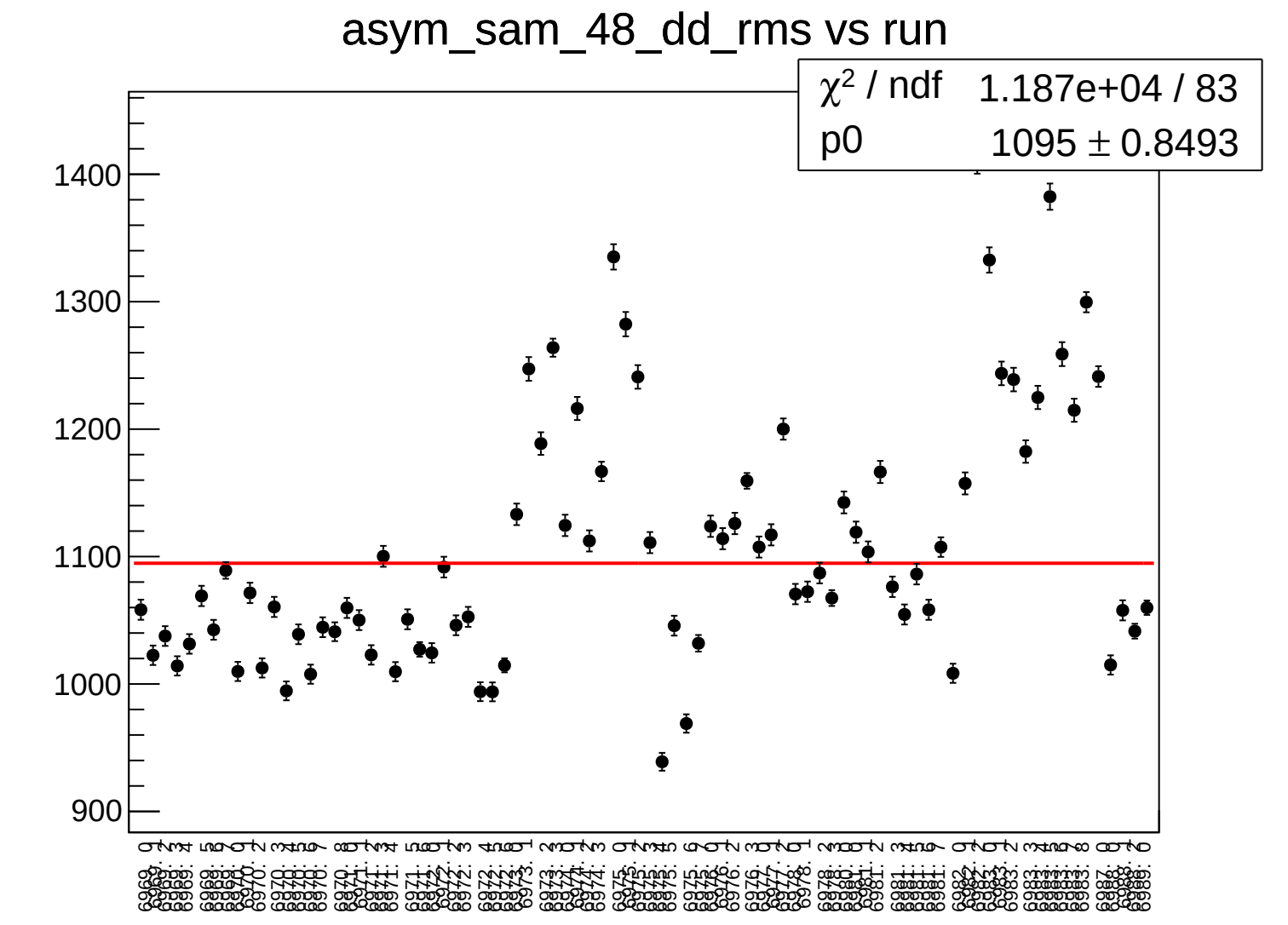

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1444 / 83
p0 137.9 ± 0.1067
160
155
150
145
140
135
130

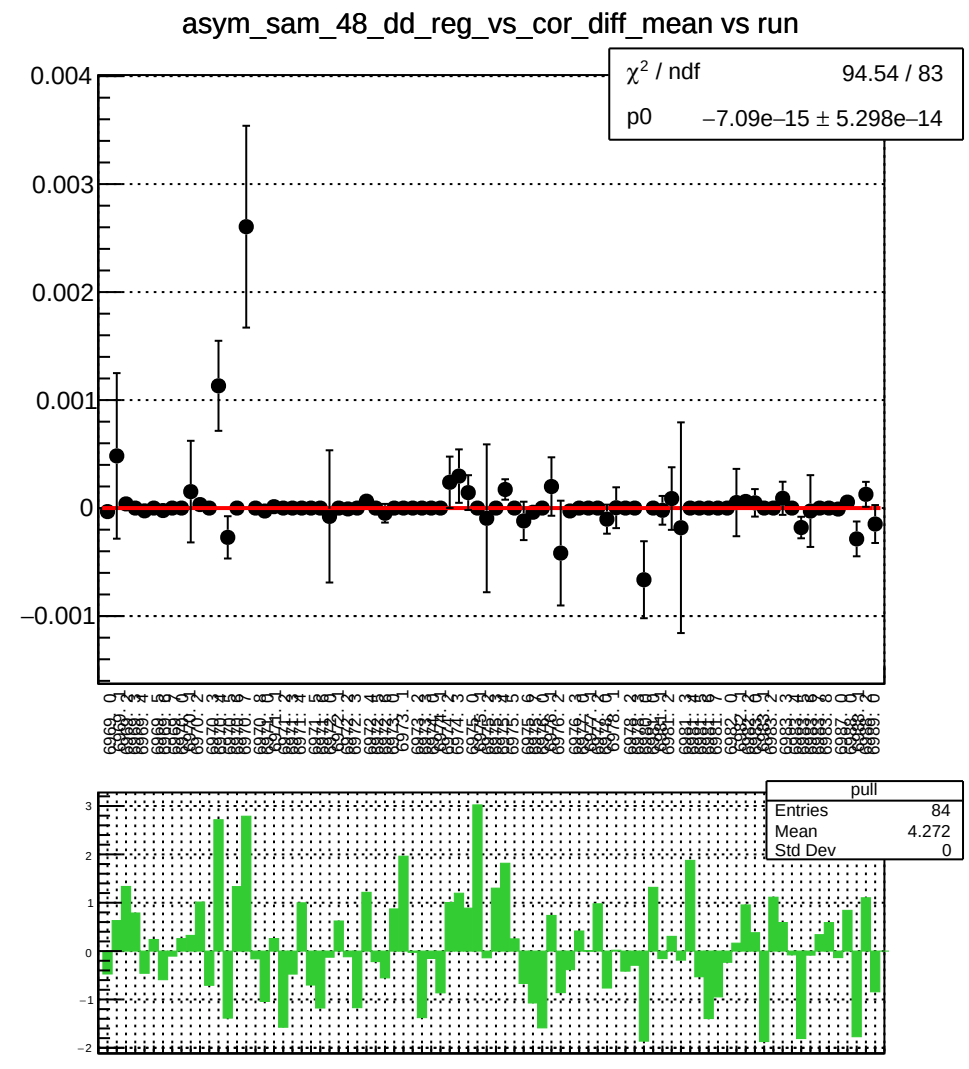

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.86 / 83
p0 −1733 ± 1202
pull
Entries 84
Mean 544.1
Std Dev 0

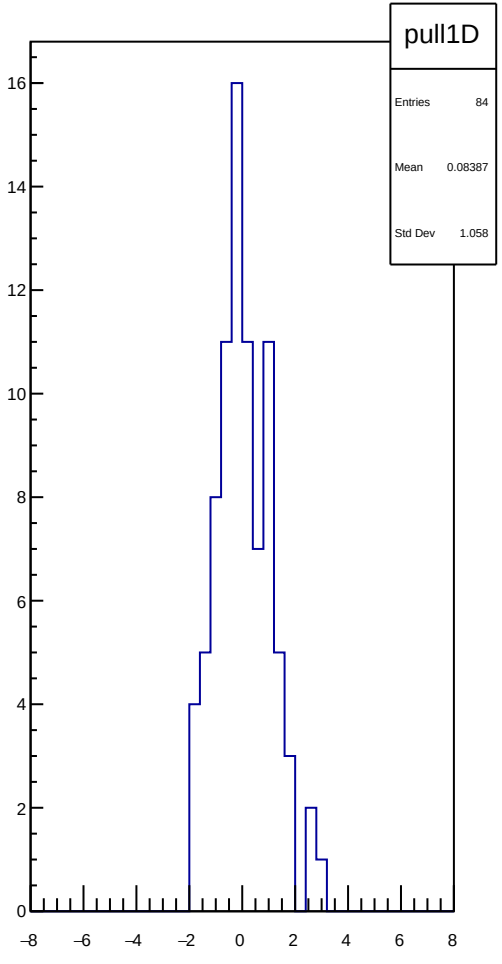

pull1D
Entries 84
Mean −0.005044
Std Dev 1.04

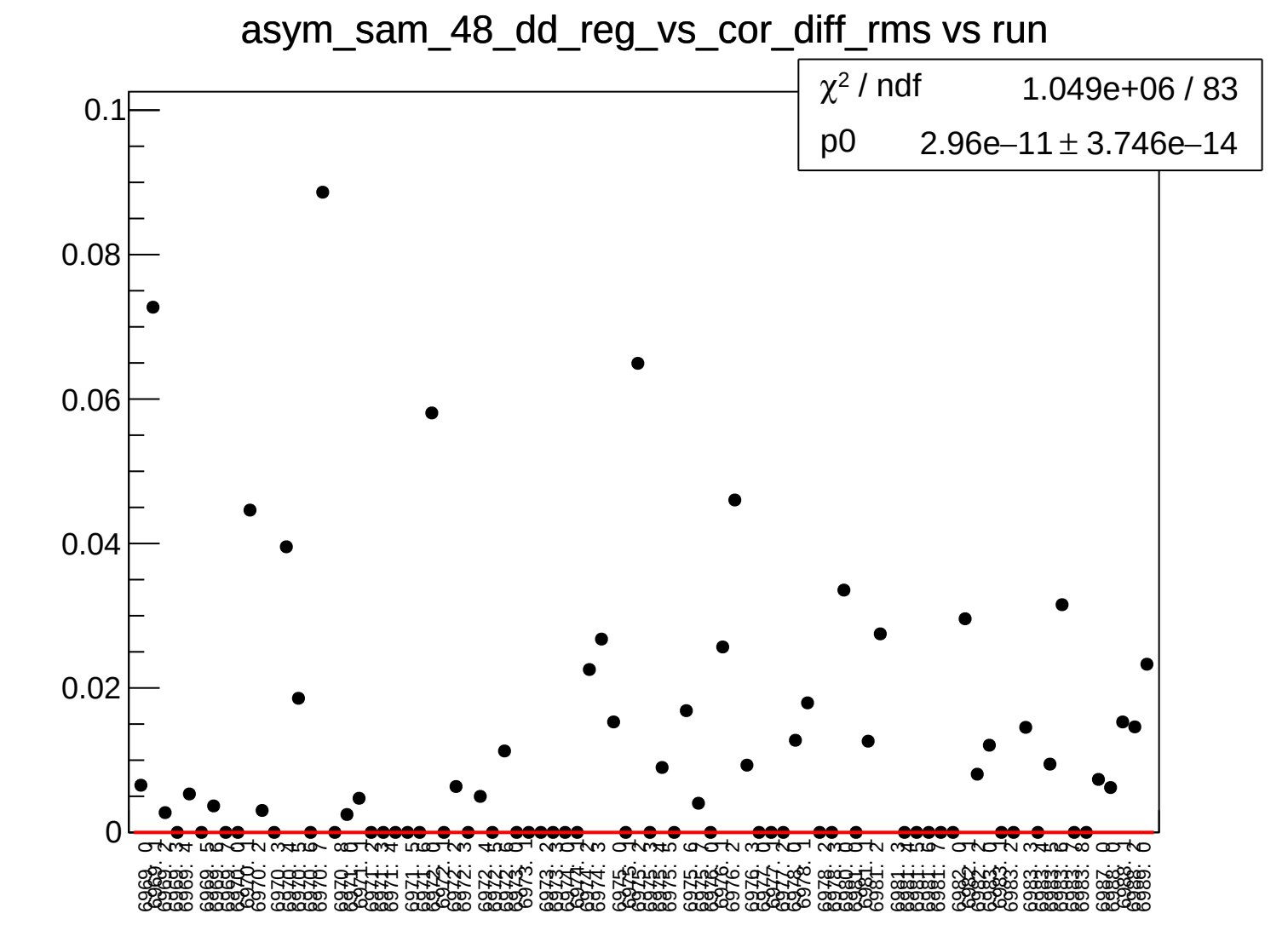

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.124e+04 / 83
p0 1095 ± 0.8497
1400
1300
1200
1100
1000

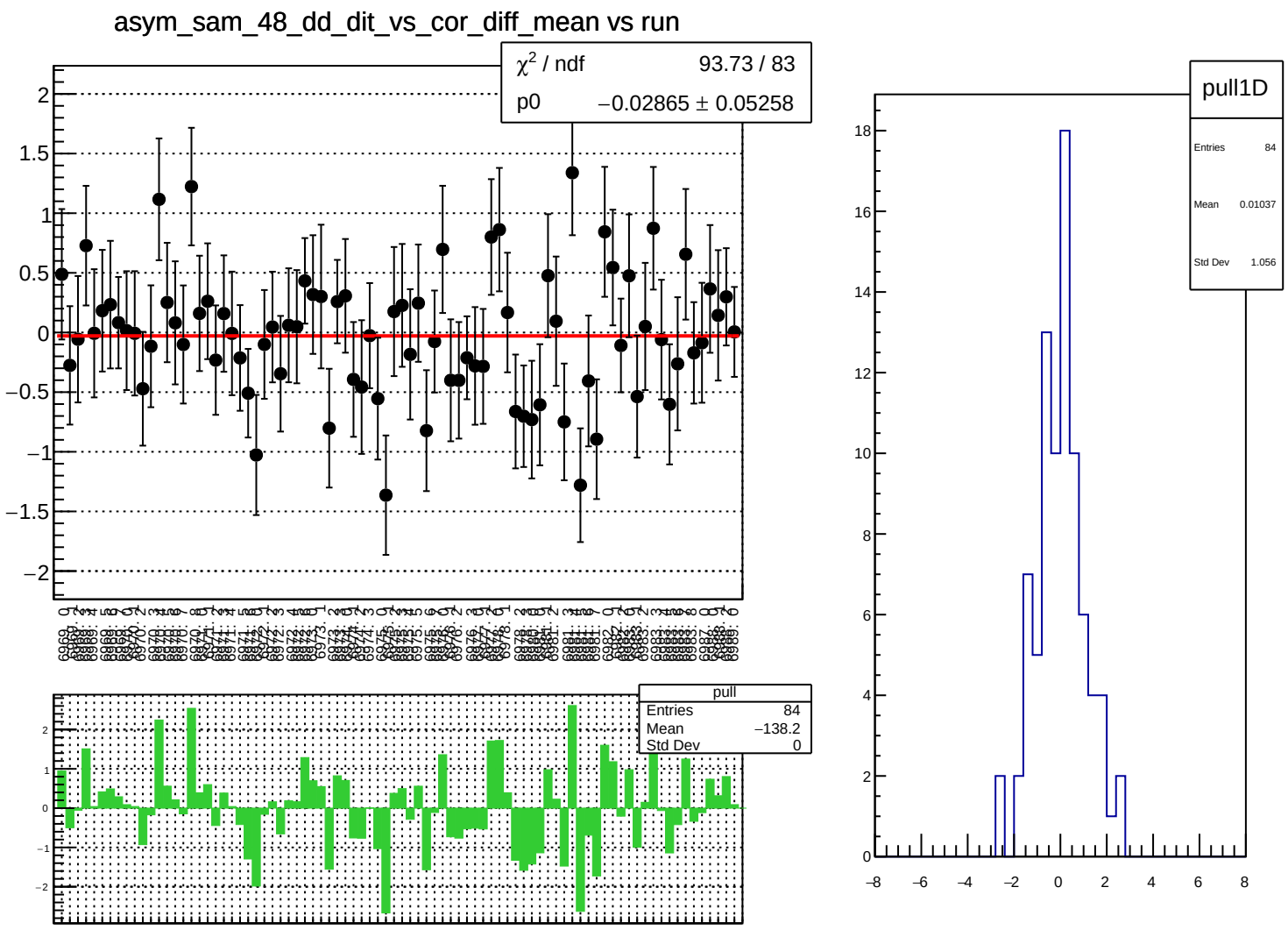

asym_sam_48_dd_mean vs run
χ² / ndf 88.14 / 83
p0 1993 ± 1201
pull
Entries 84
Mean 1062
Std Dev 0
pull1D
Entries 84
Mean 0.002456
Std Dev 1.024

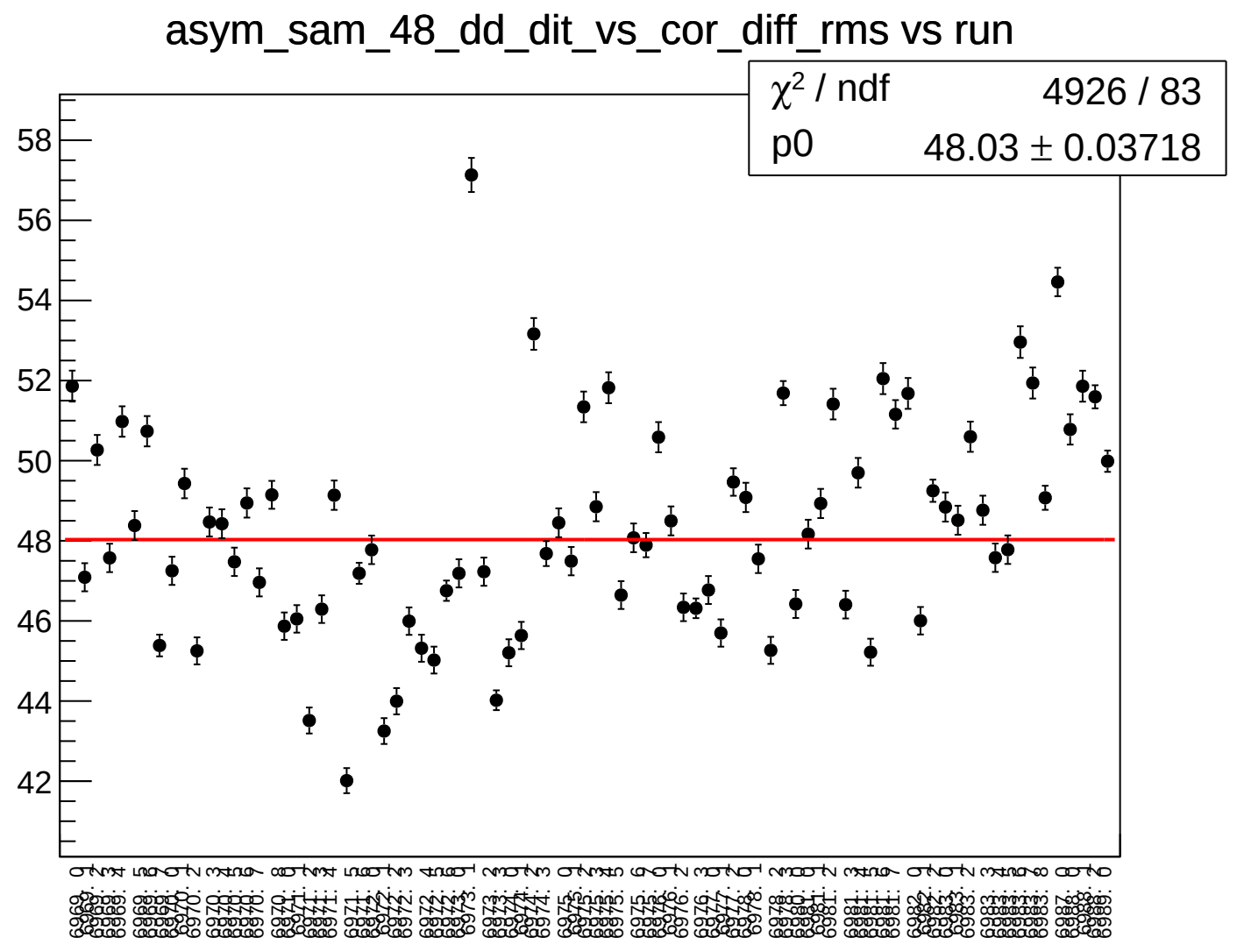

asym_sam_48_dd_rms vs run
χ² / ndf 1.187e+04 / 83
p0 1095 ± 0.8493
1400
1300
1200
1100
1000
900

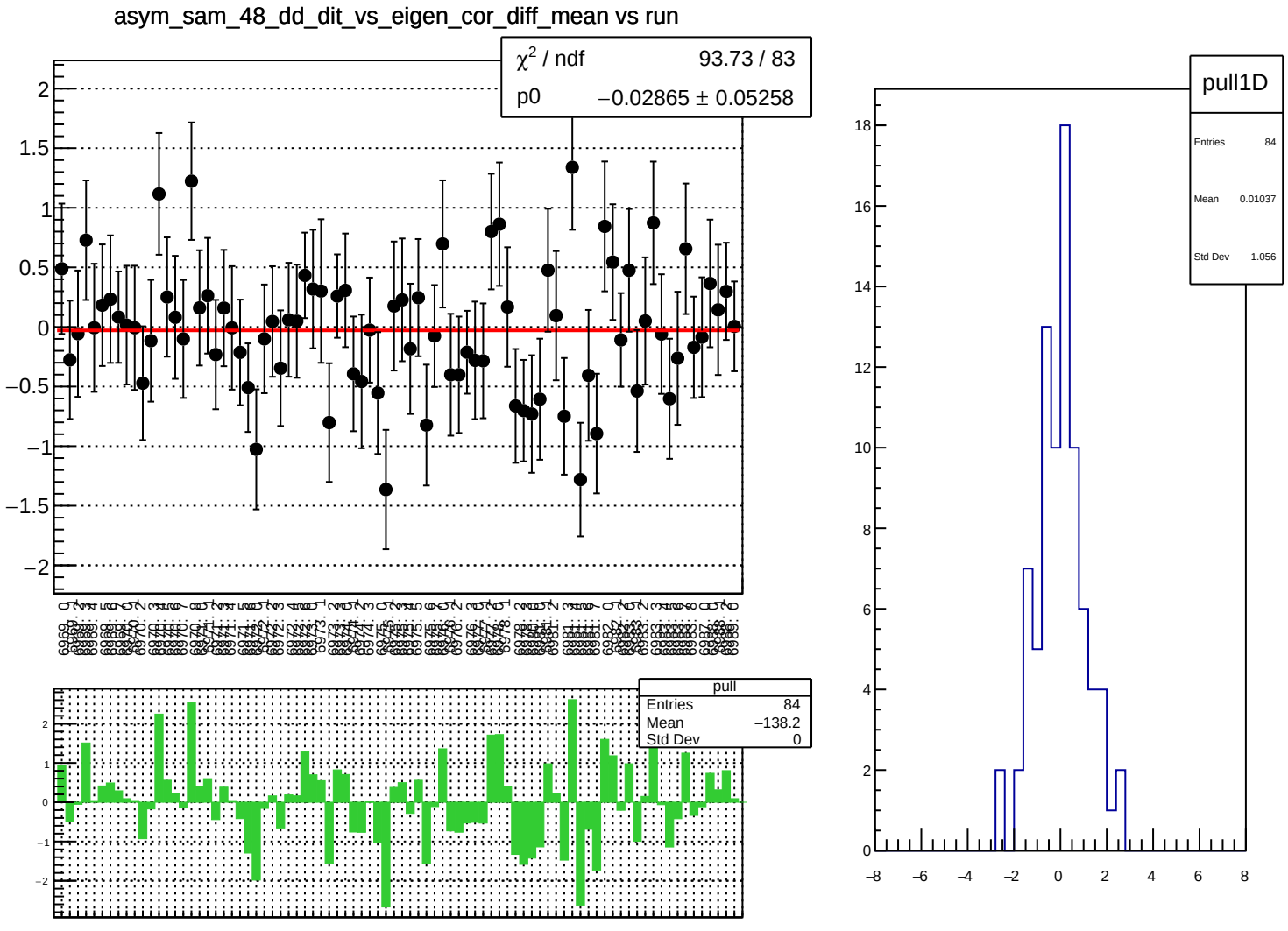

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.54 / 83
p0 −7.09e−15 ± 5.298e−14
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 84
Mean 4.272
Std Dev 0
3
2
1
0
−1
−2

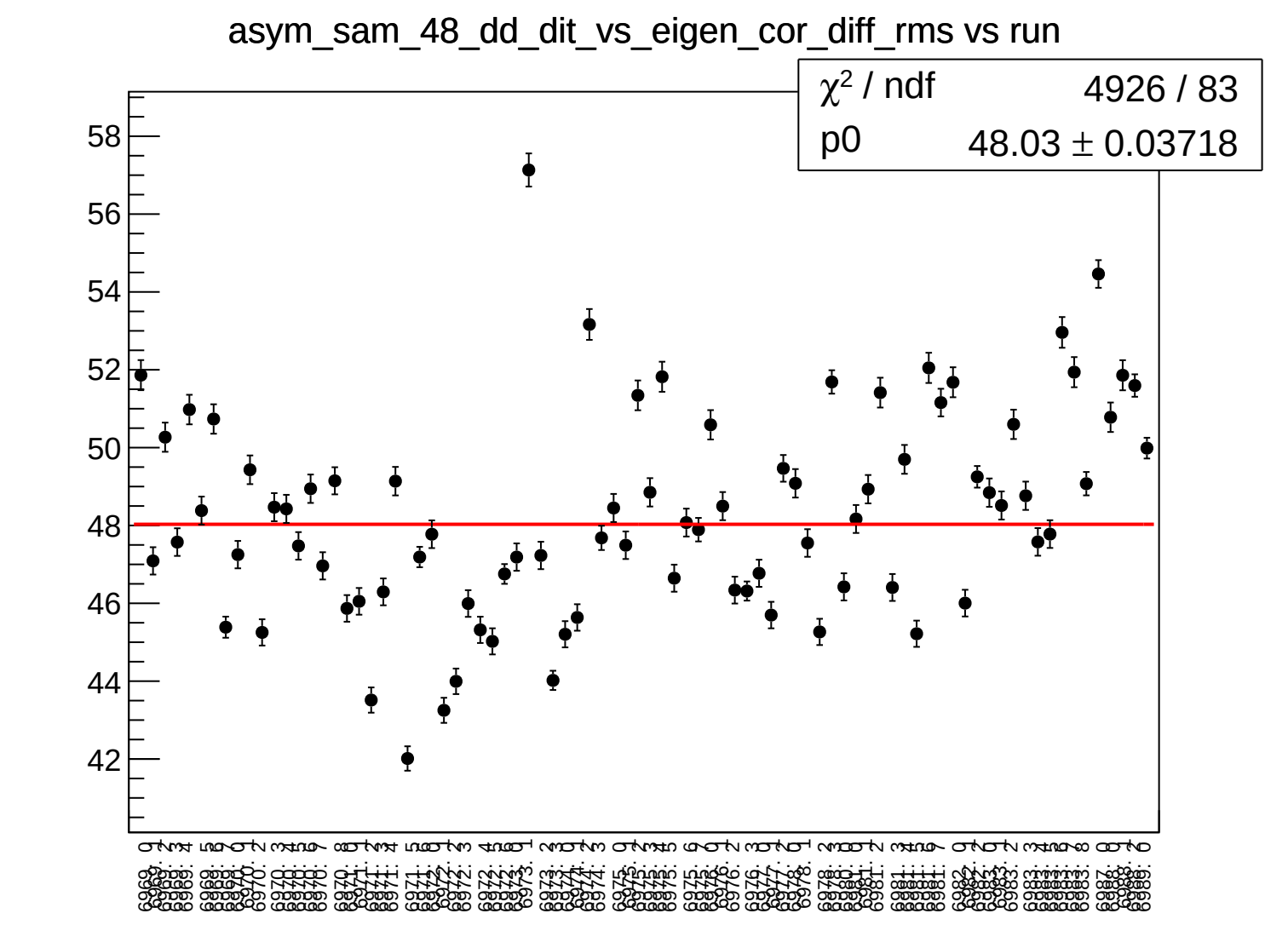

pull1D
Entries 84
Mean 0.08387
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

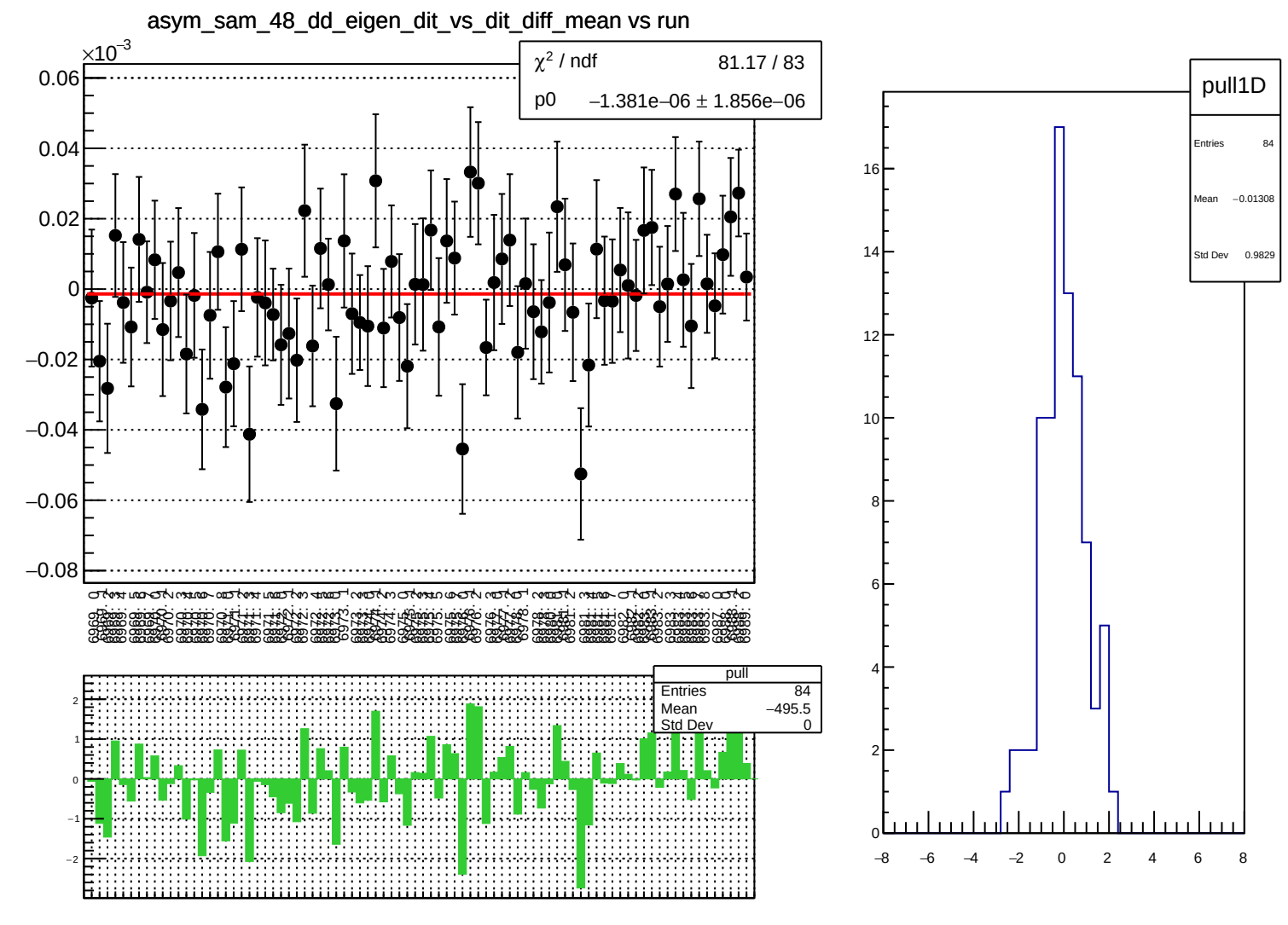

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.049e+06 / 83
p0 2.96e−11 ± 3.746e−14
0.1
0.08
0.06
0.04
0.02
0

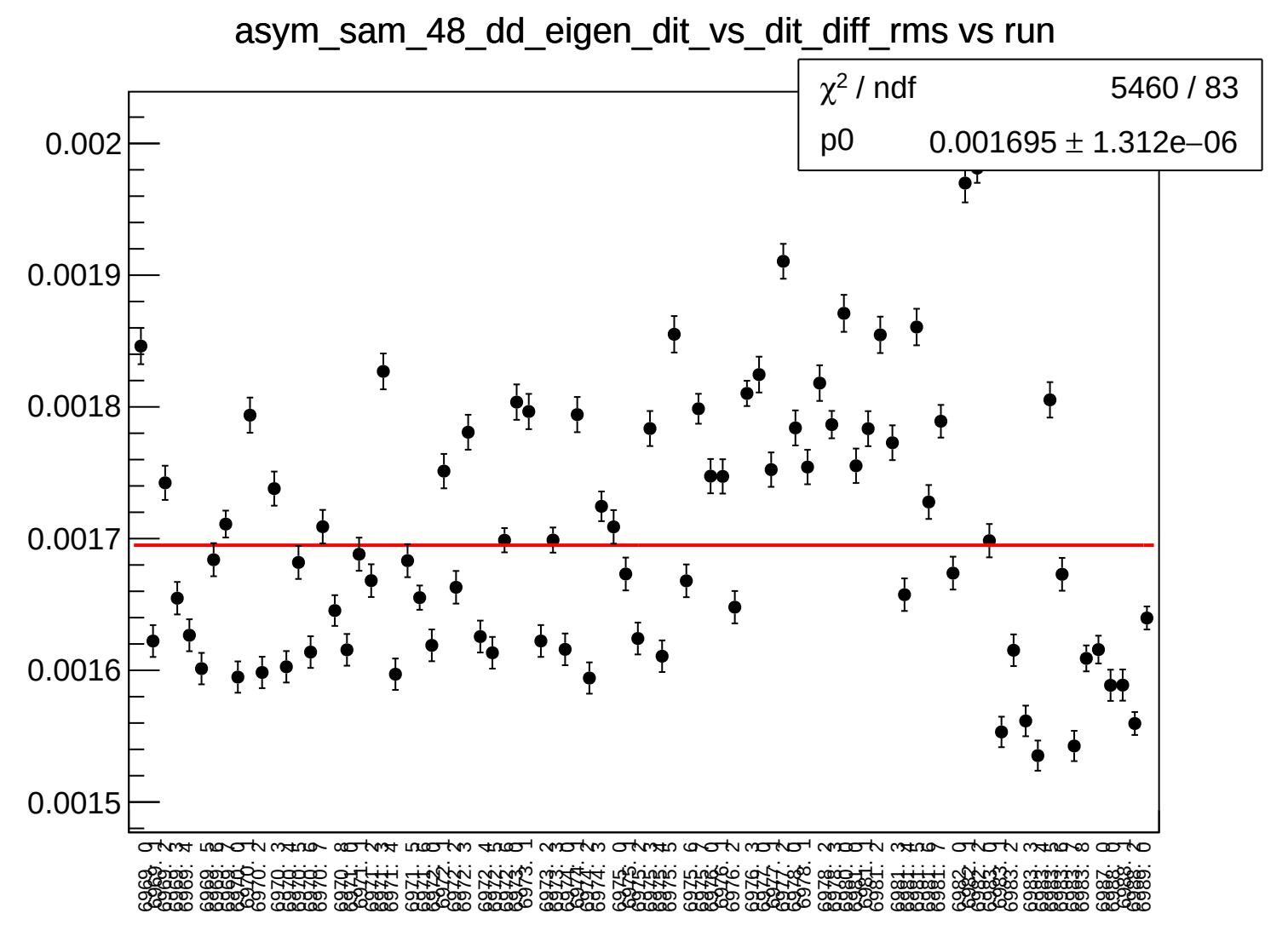

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.73 / 83
p0 −0.02865 ± 0.05258
pull
Entries 84
Mean −138.2
Std Dev 0
pull1D
Entries 84
Mean 0.01037
Std Dev 1.056

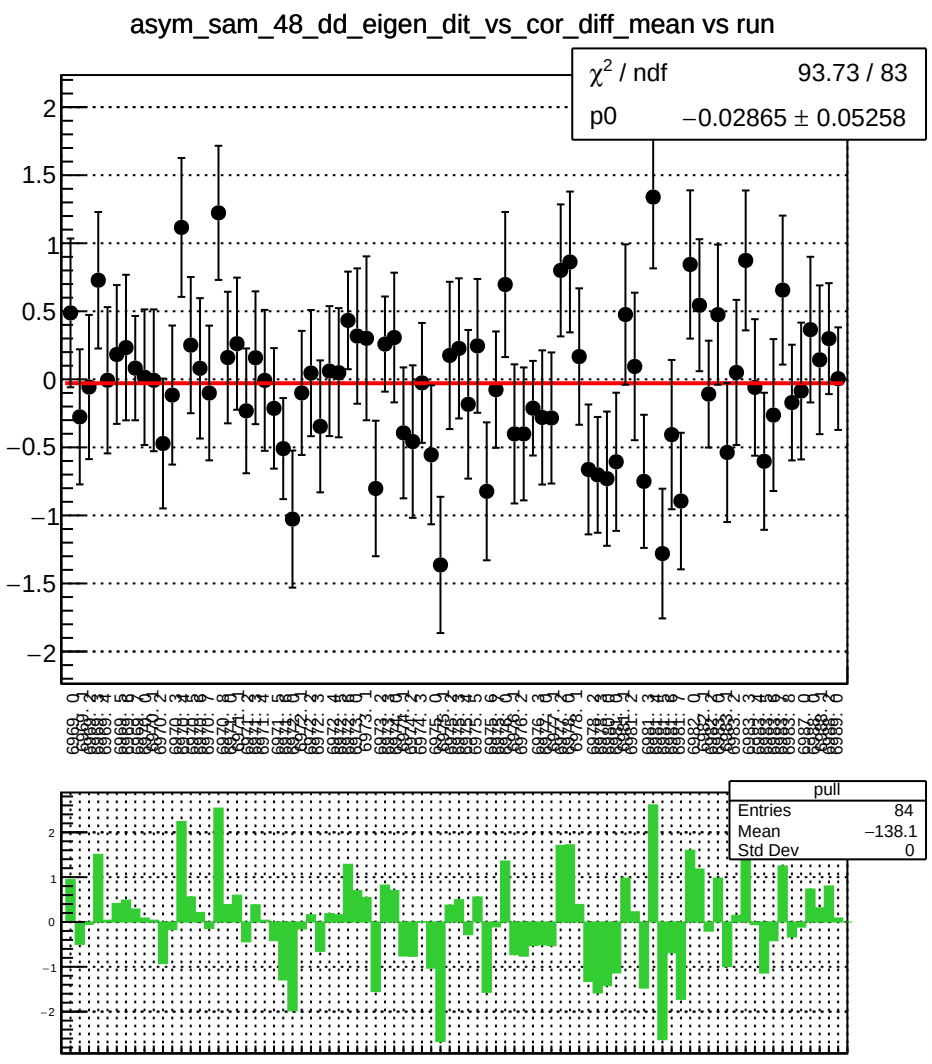

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4926 / 83
p0 48.03 ± 0.03718
58
56
54
52
50
48
46
44
42

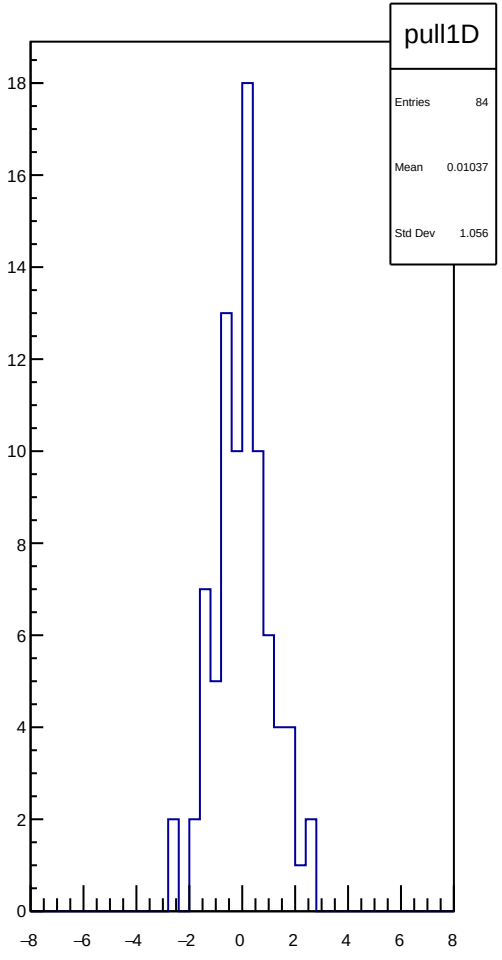

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.73 / 83
p0 −0.02865 ± 0.05258
pull
Entries 84
Mean −138.2
Std Dev 0
pull1D
Entries 84
Mean 0.01037
Std Dev 1.056

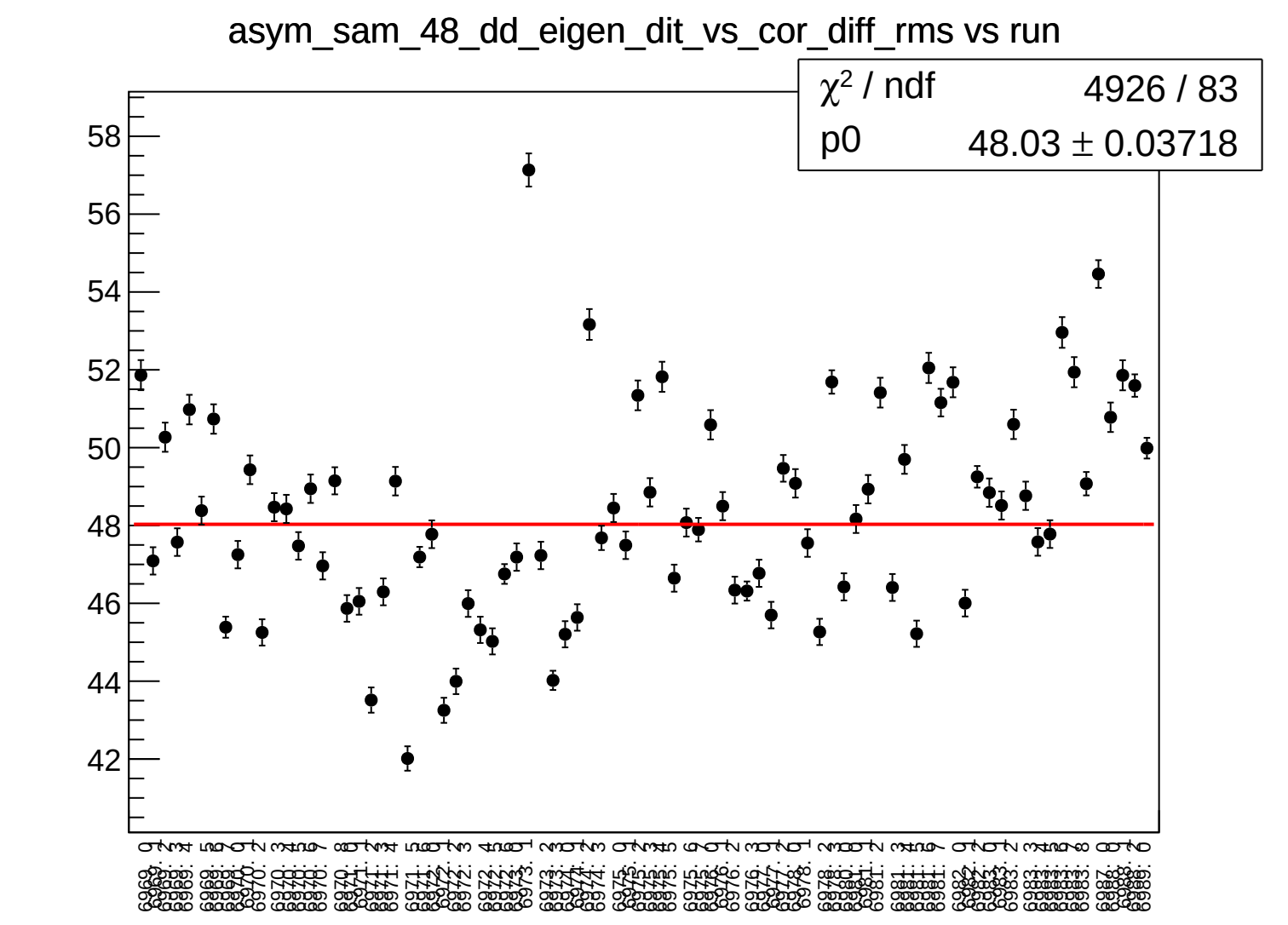

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4926 / 83
p0 48.03 ± 0.03718
58
56
54
52
50
48
46
44
42

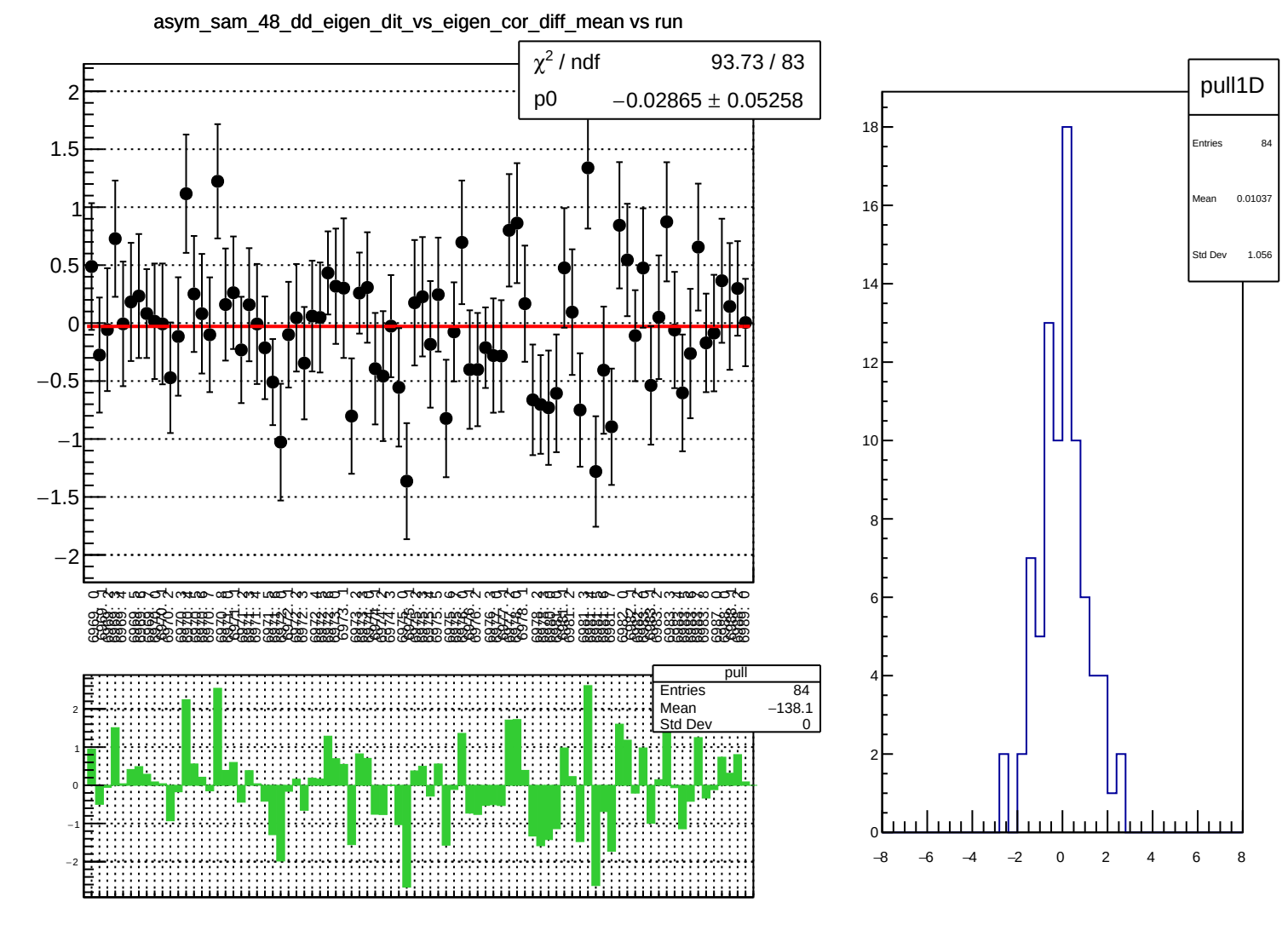

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.17 / 83
p0 −1.381e−06 ± 1.856e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean −495.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01308
Std Dev 0.9829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

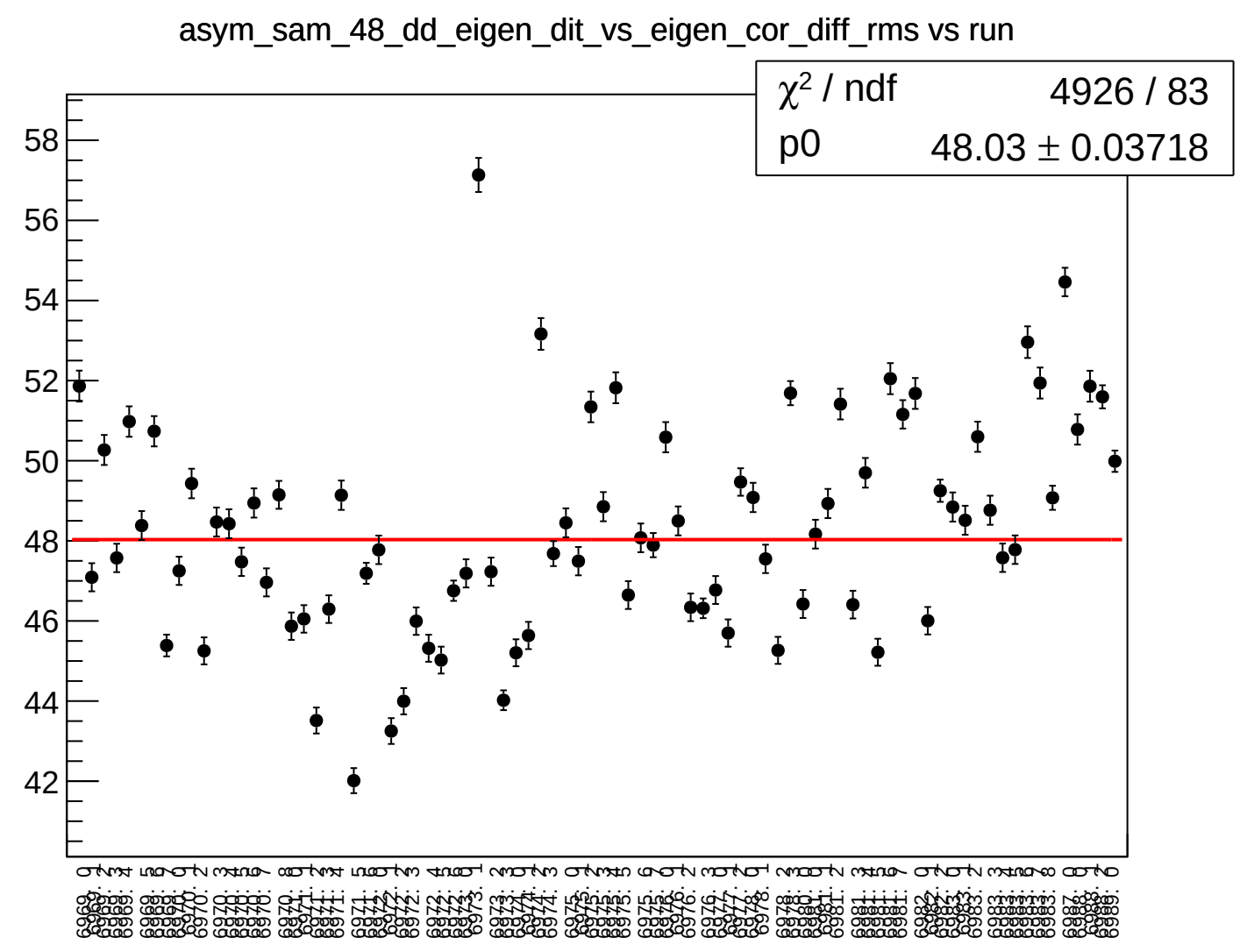

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5460 / 83
p0 0.001695 ± 1.312e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

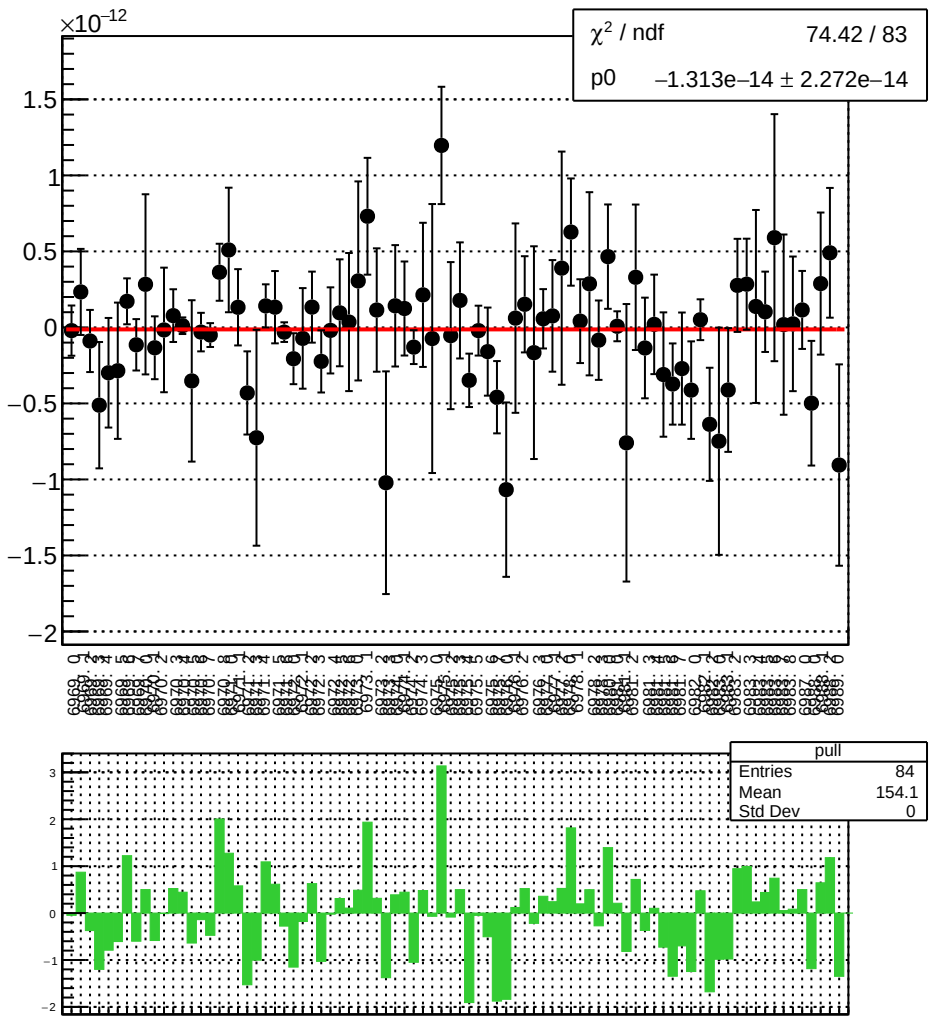

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.73 / 83
p0 −0.02865 ± 0.05258
pull
Entries 84
Mean −138.1
Std Dev 0

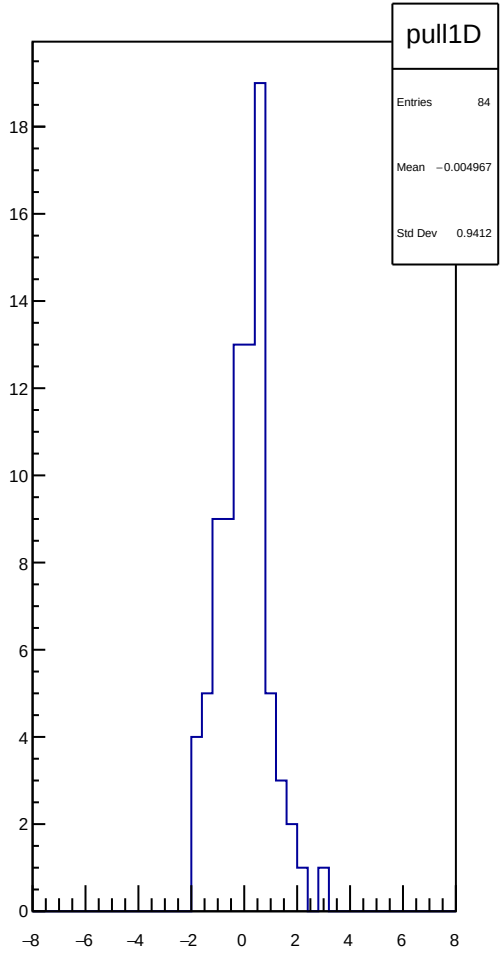

pull1D
Entries 84
Mean 0.01037
Std Dev 1.056

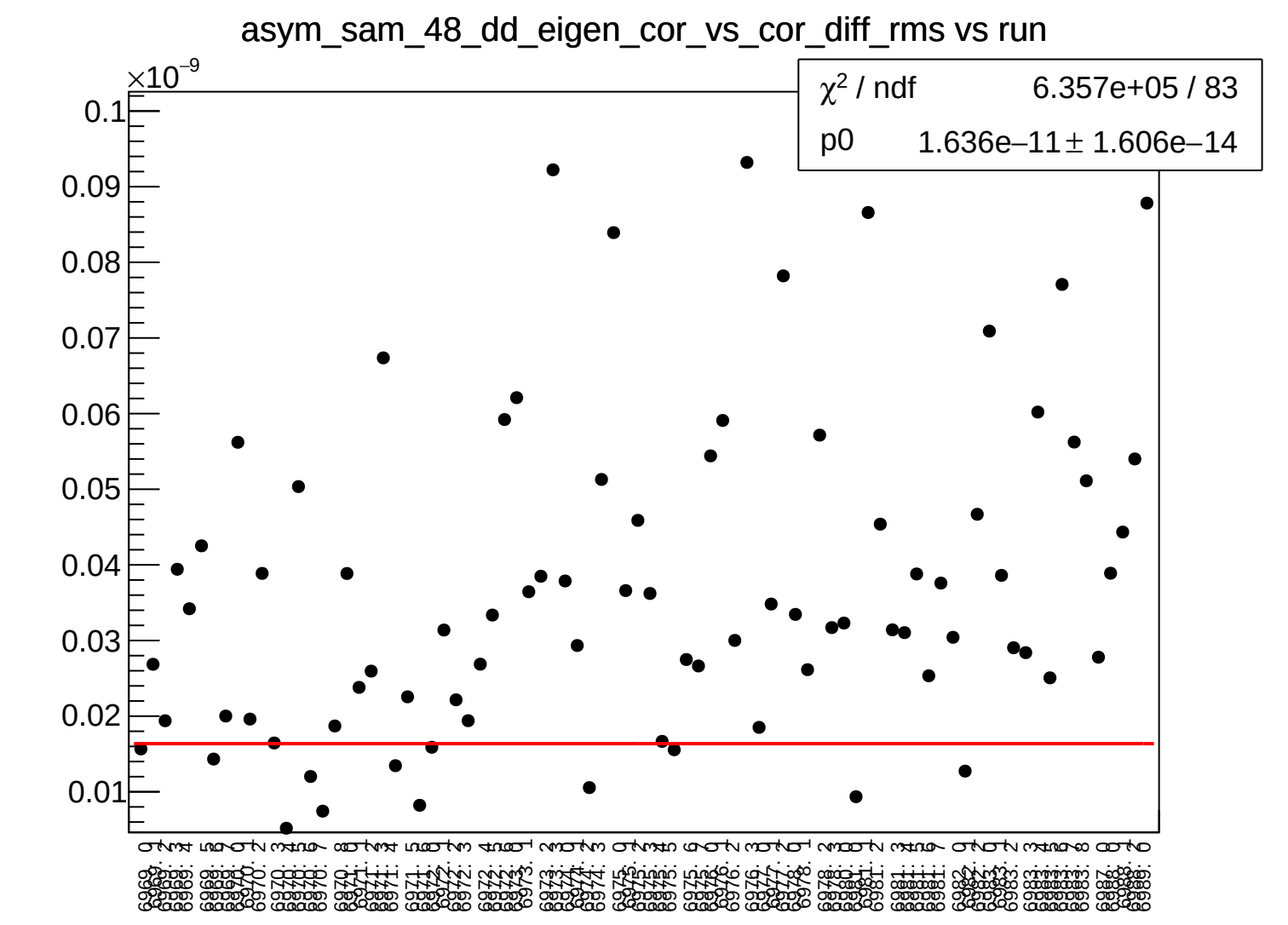

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4926 / 83
p0 48.03 ± 0.03718
58
56
54
52
50
48
46
44
42

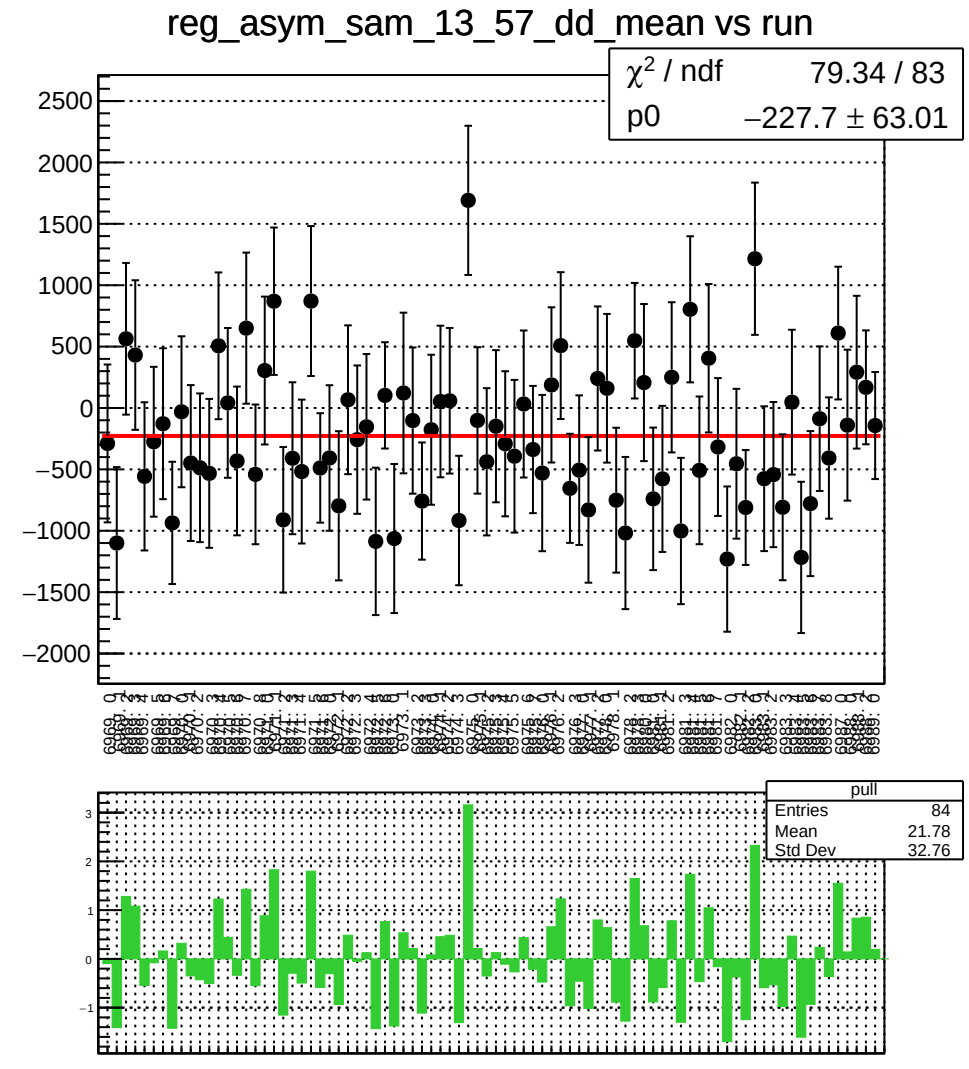

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.73 / 83
p0 −0.02865 ± 0.05258
pull
Entries 84
Mean −138.1
Std Dev 0
pull1D
Entries 84
Mean 0.01037
Std Dev 1.056

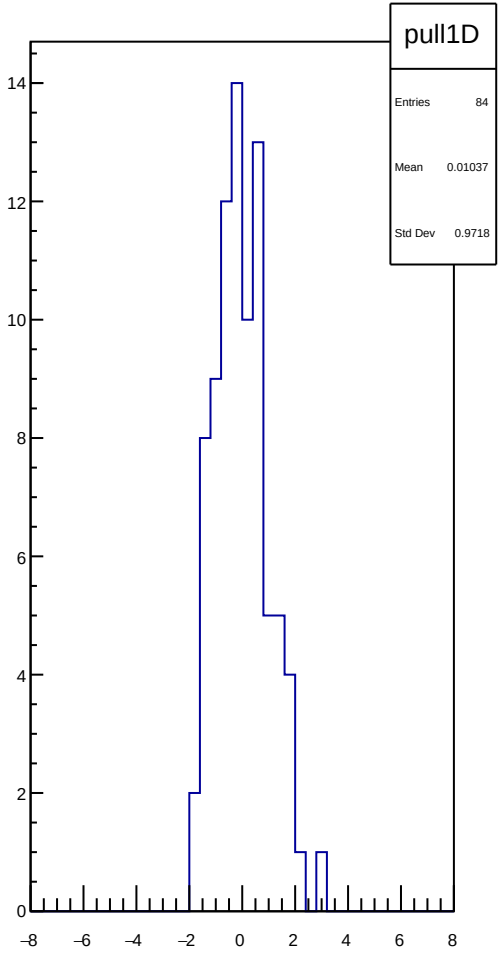

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4926 / 83
p0 48.03 ± 0.03718
58
56
54
52
50
48
46
44
42

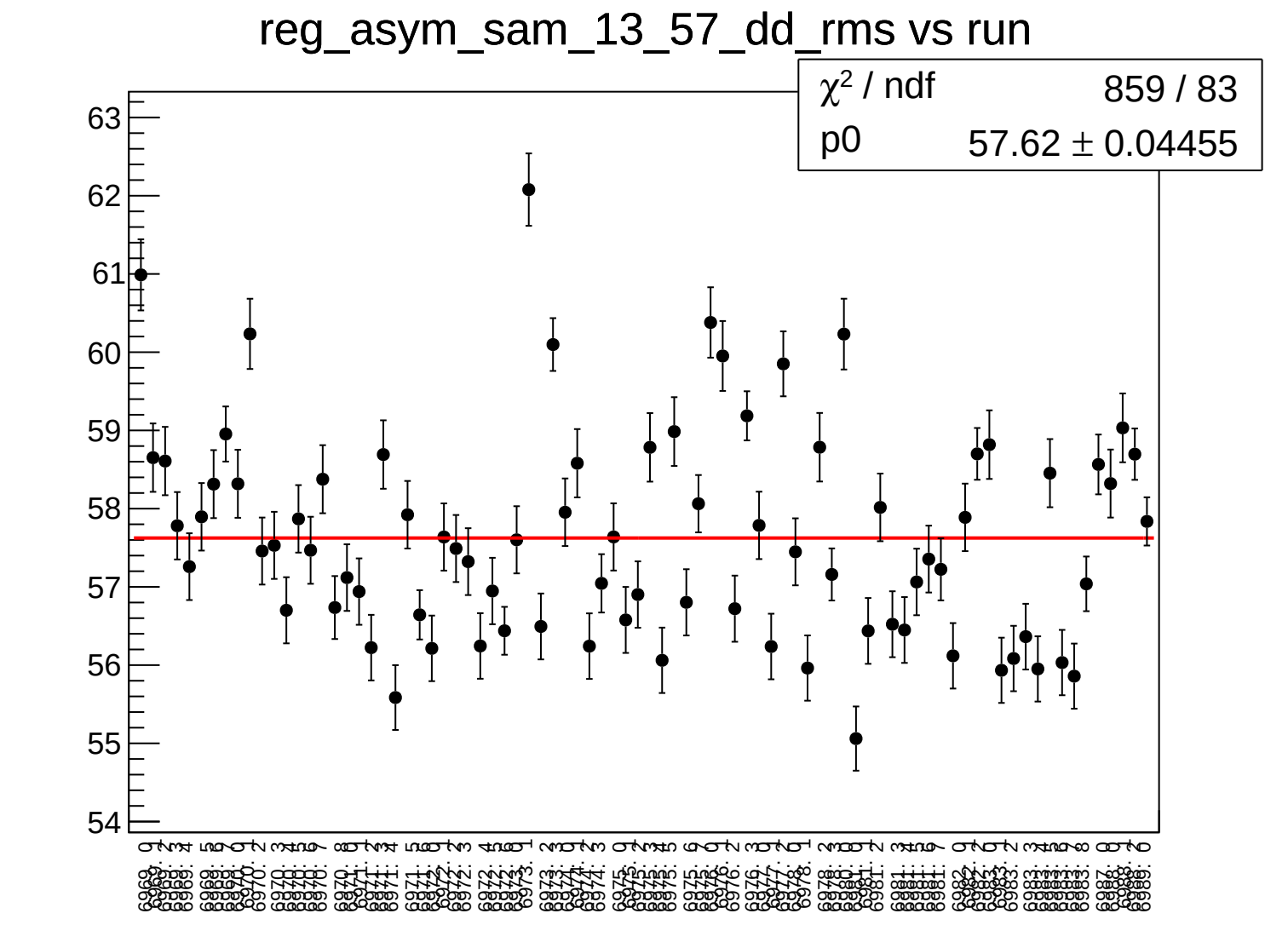

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.42 / 83
p0 −1.313e−14 ± 2.272e−14
pull
Entries 84
Mean 154.1
Std Dev 0

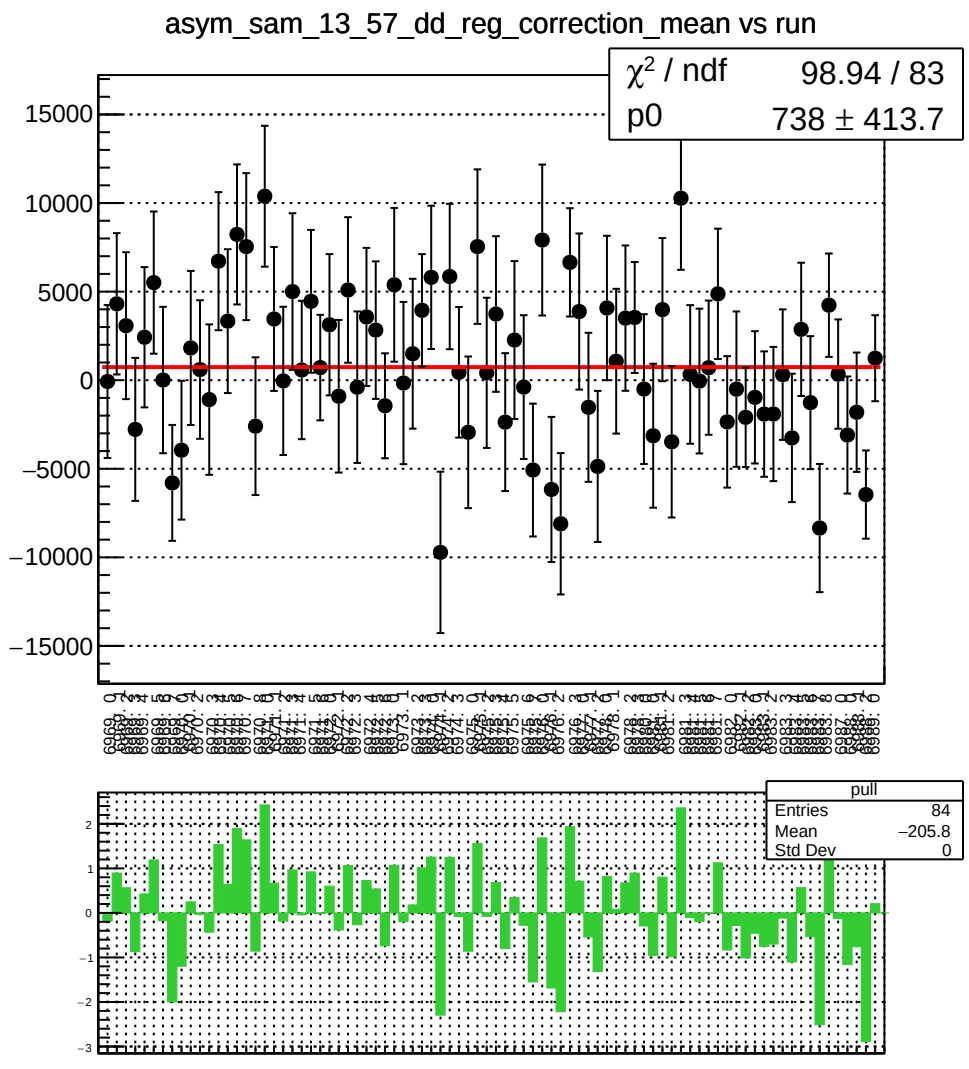

pull1D
Entries 84
Mean −0.004967
Std Dev 0.9412

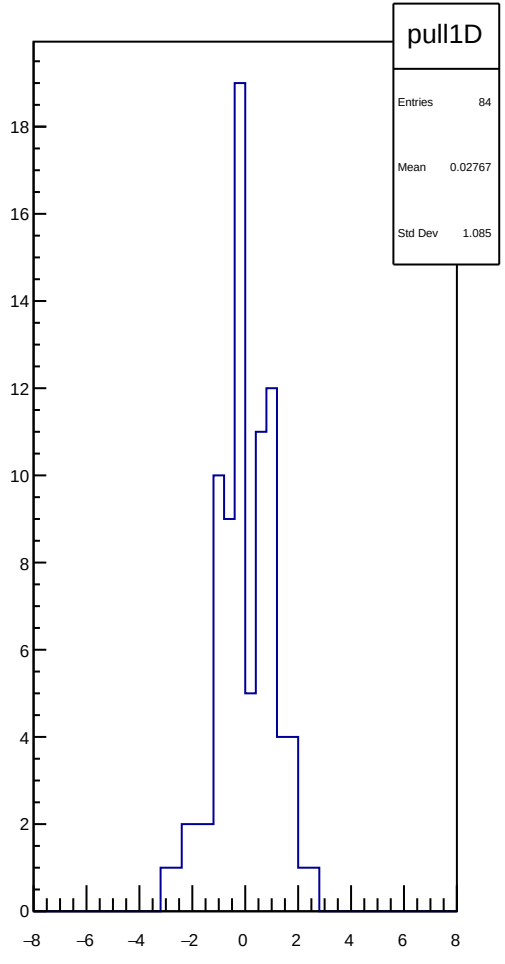

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.357e+05 / 83
p0 1.636e−11 ± 1.606e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

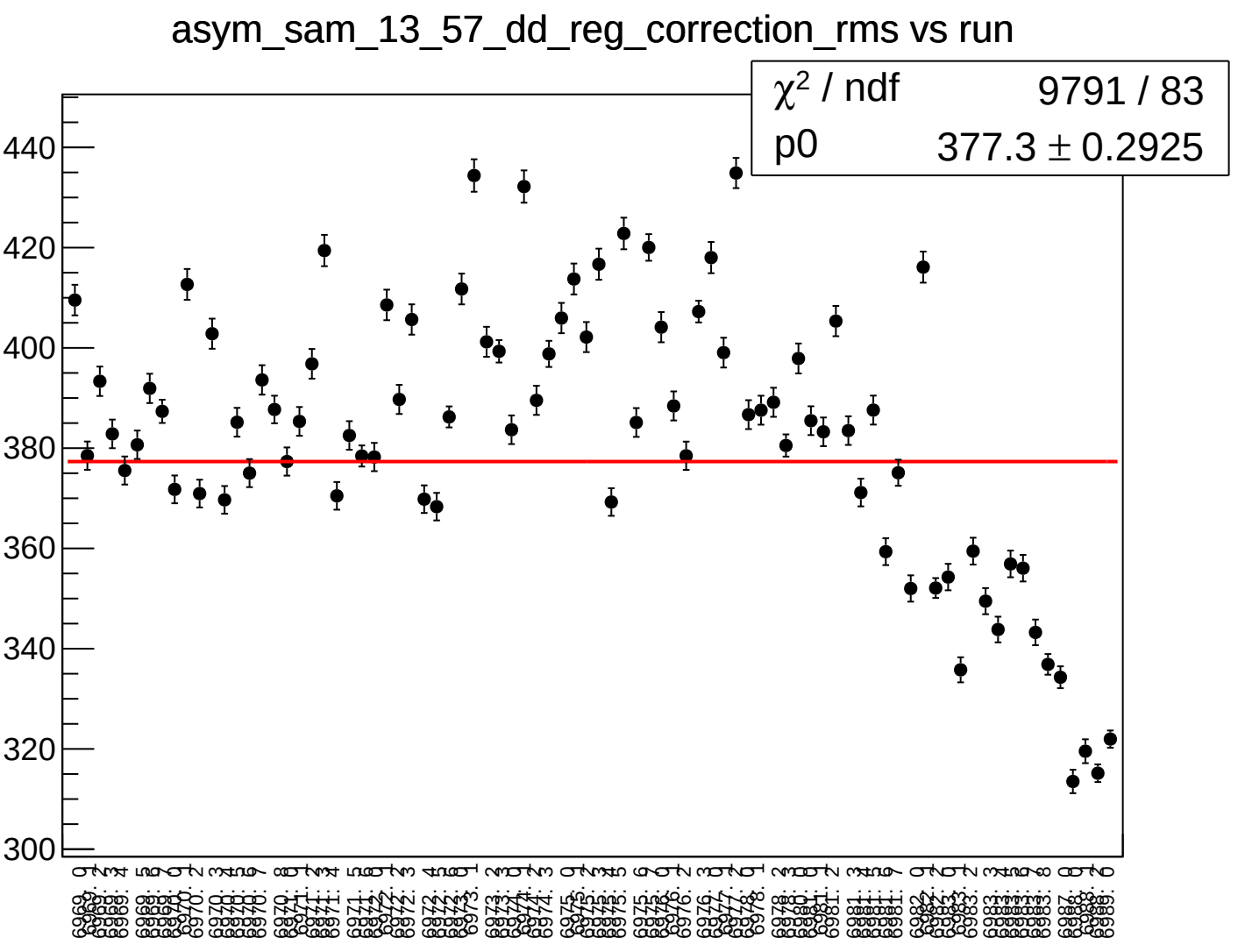

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 79.34 / 83
p0 −227.7 ± 63.01
pull
Entries 84
Mean 21.78
Std Dev 32.76

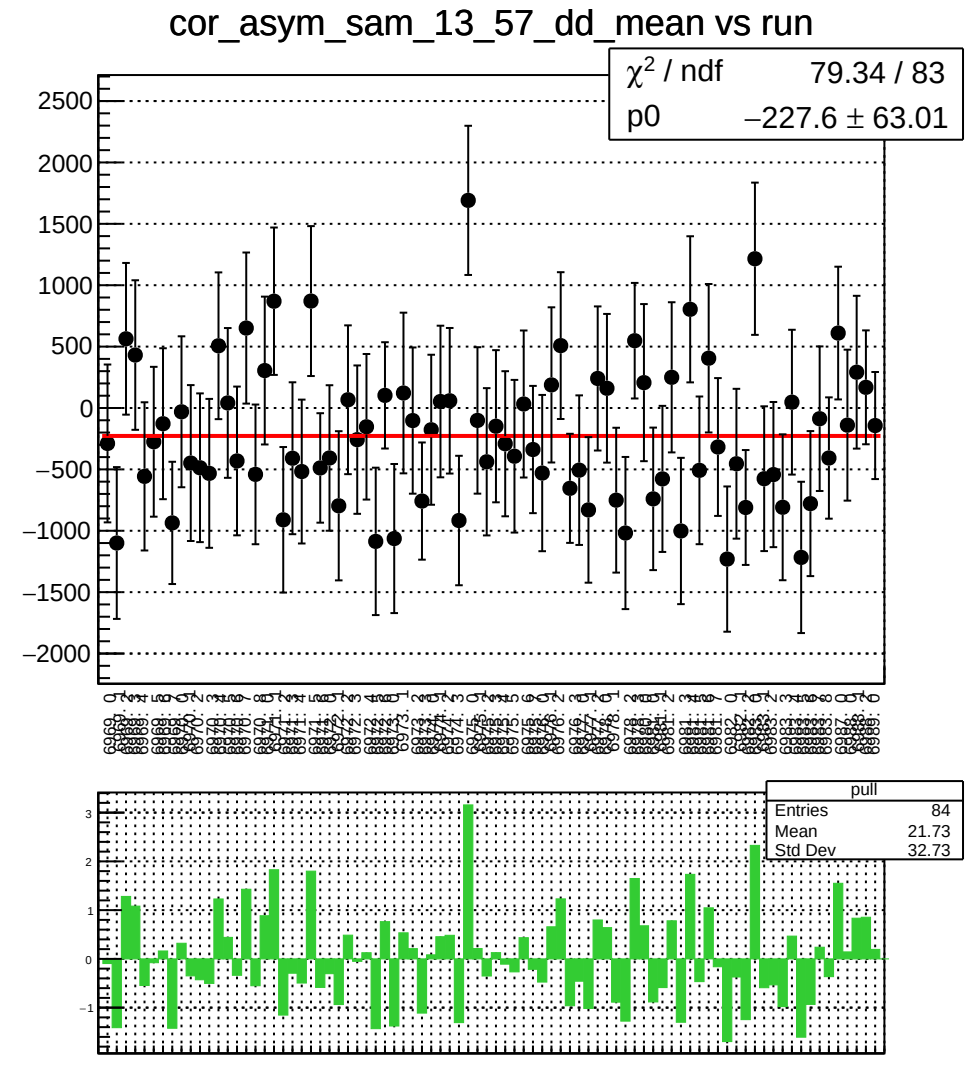

pull1D
Entries 84
Mean 0.01037
Std Dev 0.9718

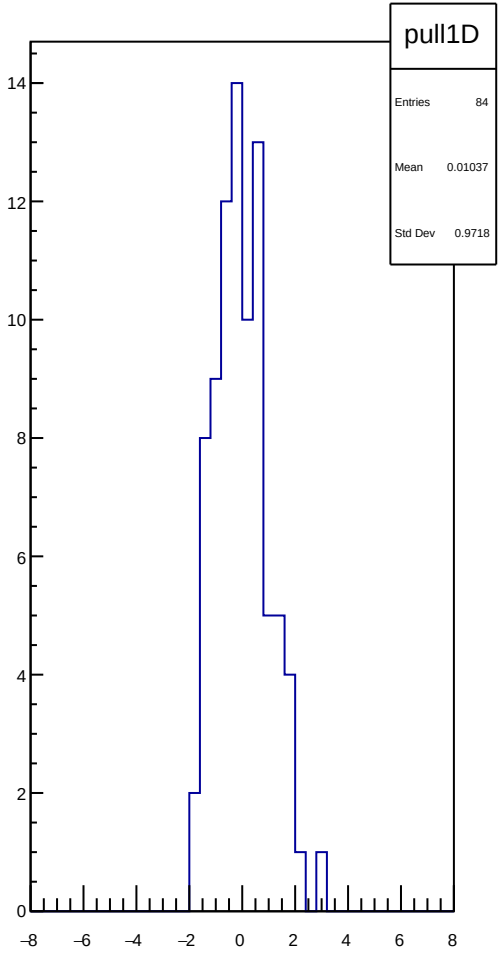

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 859 / 83
p0 57.62 ± 0.04455
63
62
61
60
59
58
57
56
55
54

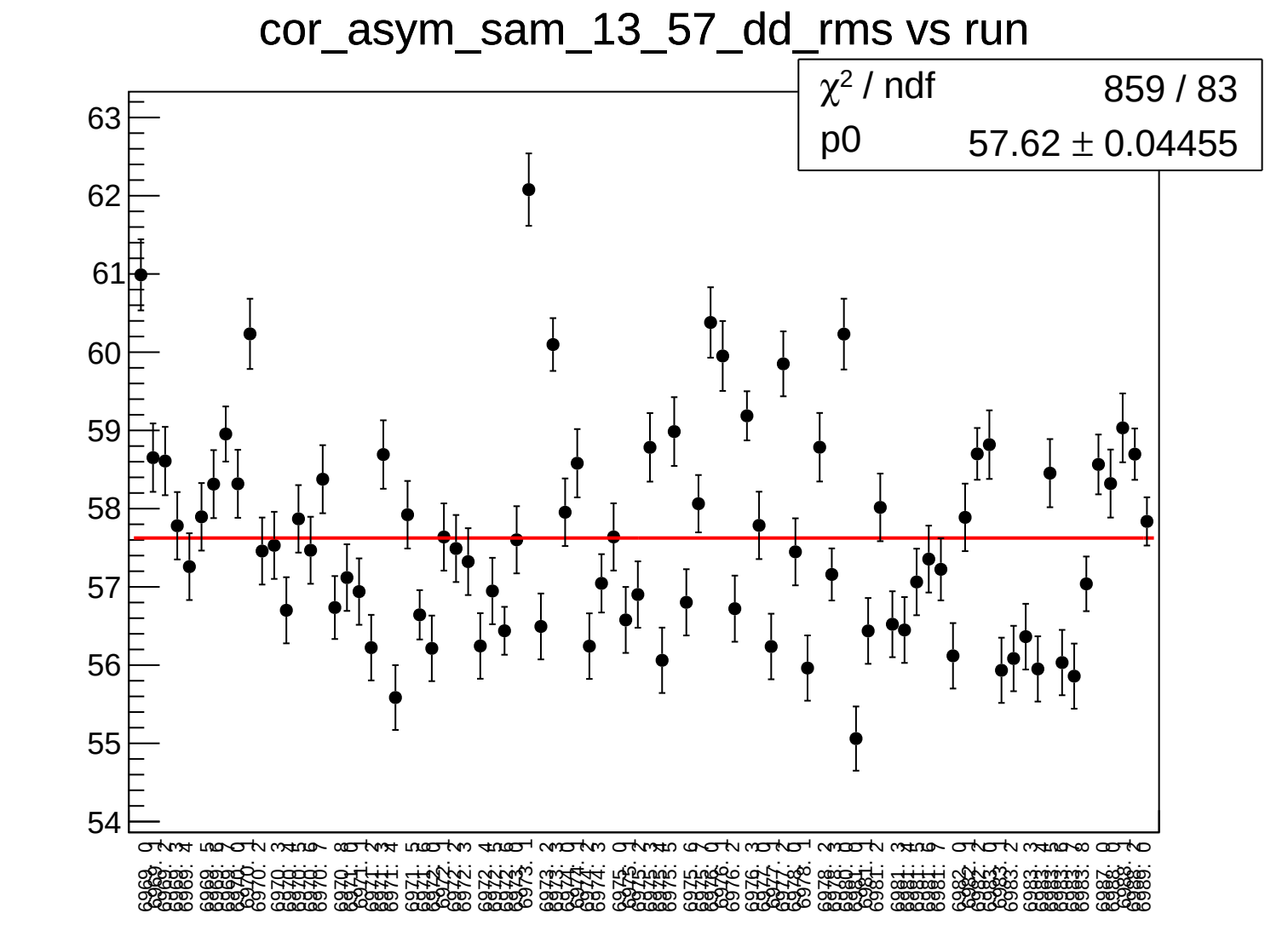

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 98.94 / 83
p0 738 ± 413.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −205.8
Std Dev 0
2
1
0
−1
−2
−3

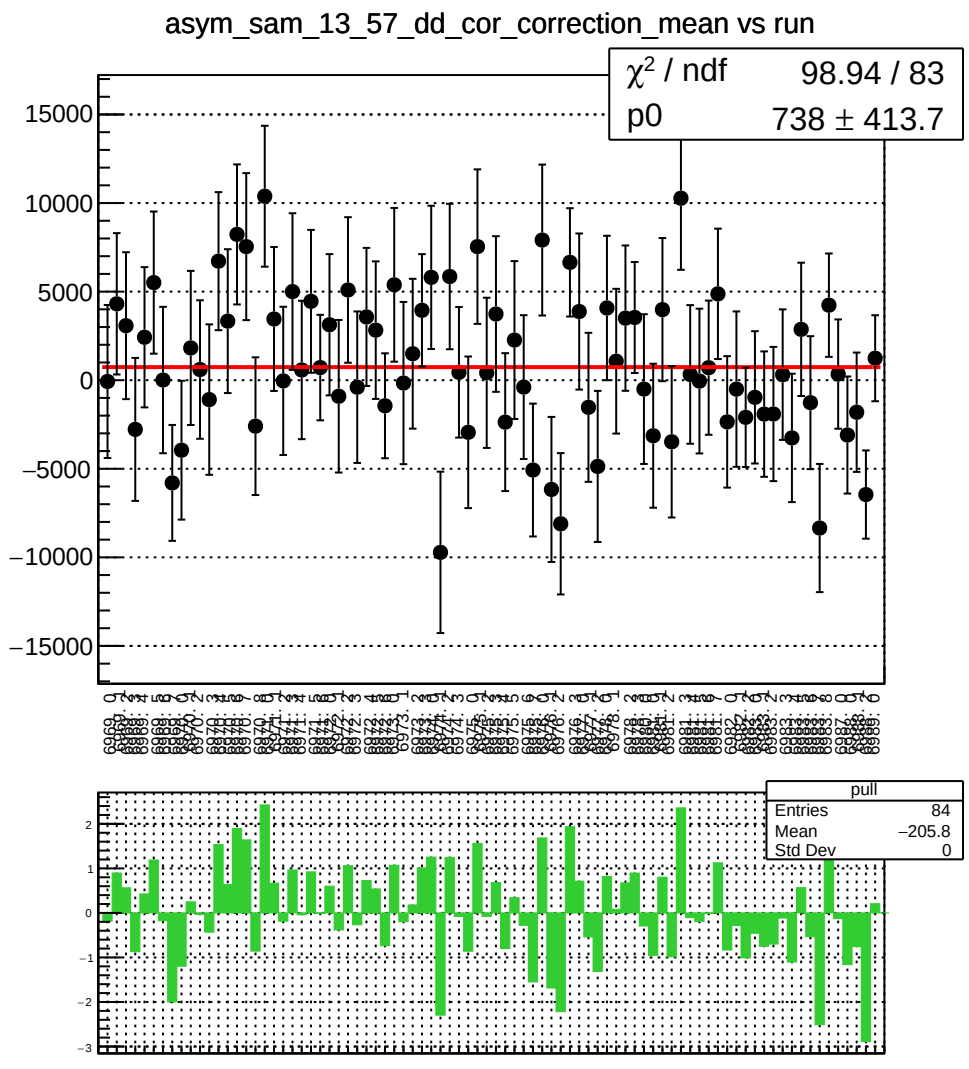

pull1D
Entries 84
Mean 0.02767
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

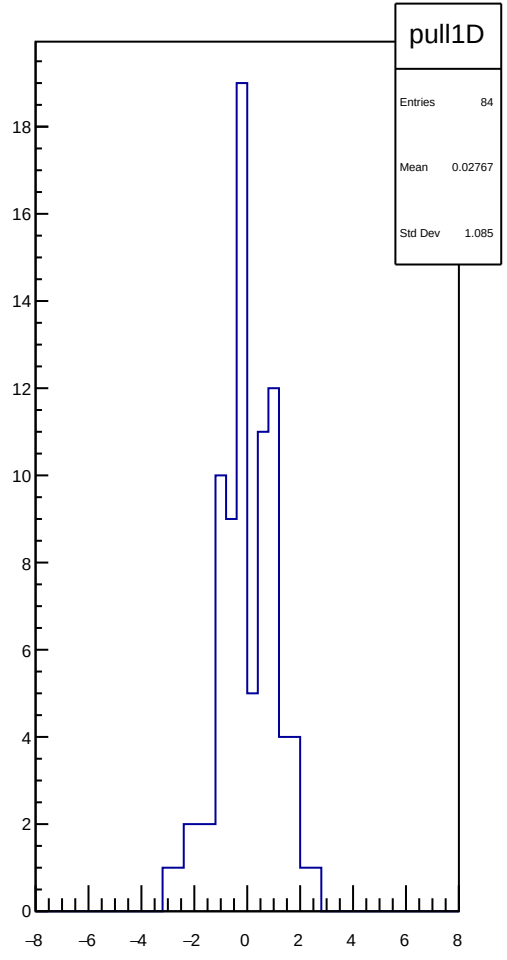

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 9791 / 83
p0 377.3 ± 0.2925
440
420
400
380
360
340
320
300

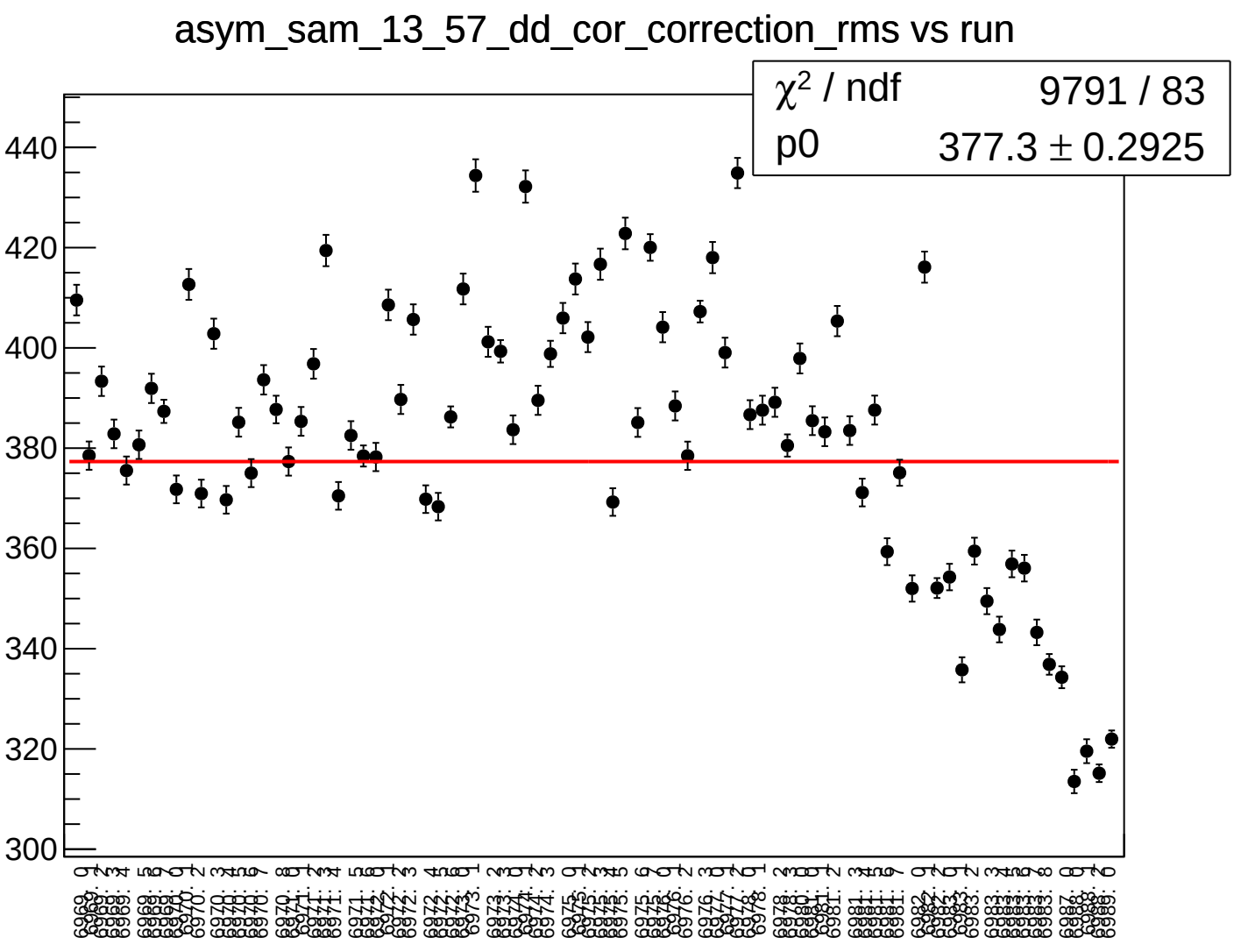

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 79.34 / 83
p0 −227.6 ± 63.01
pull
Entries 84
Mean 21.73
Std Dev 32.73

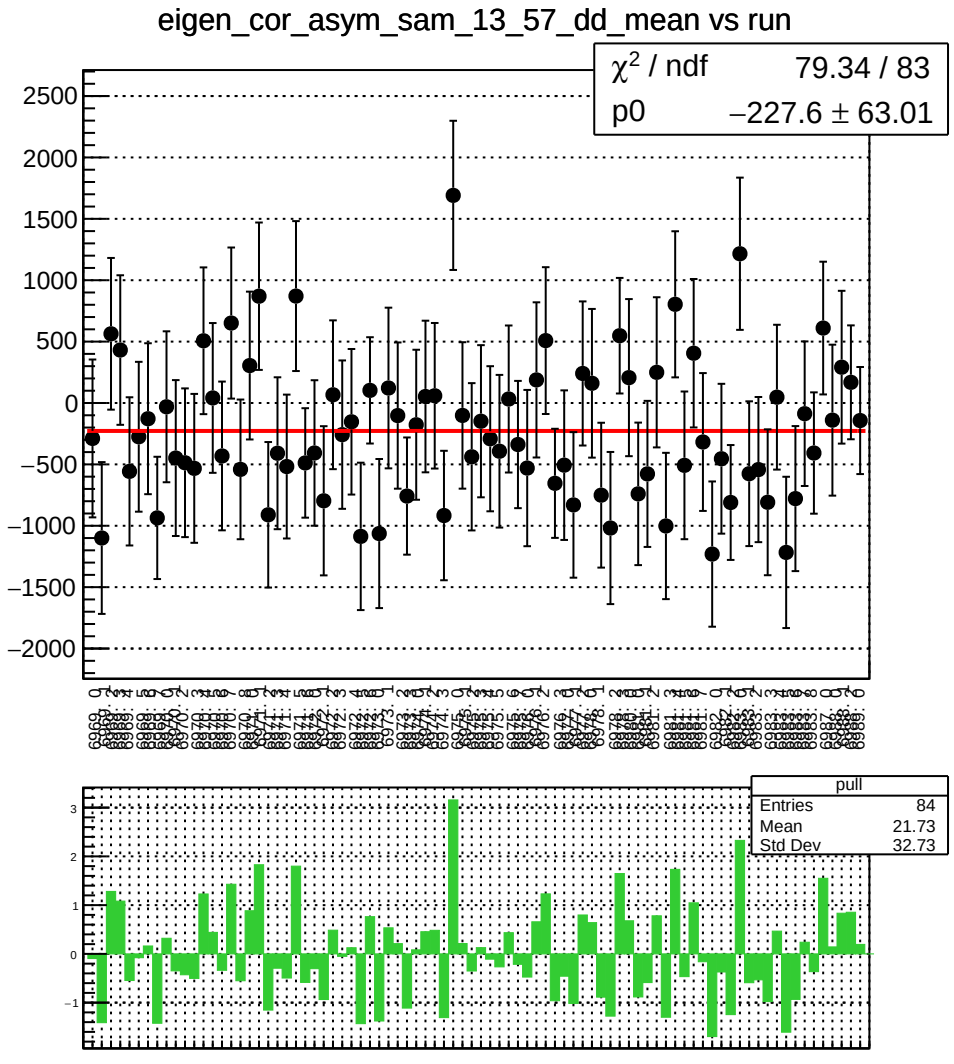

pull1D
Entries 84
Mean 0.01037
Std Dev 0.9718

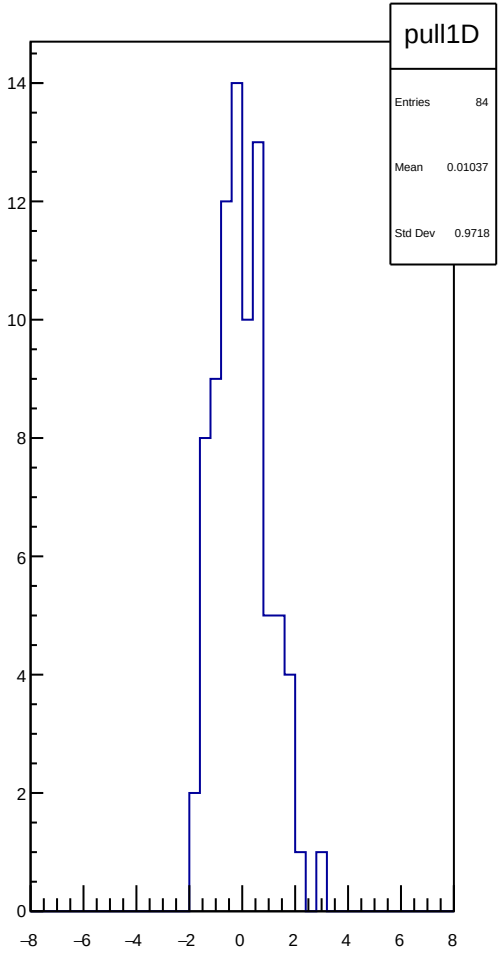

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 859 / 83
p0 57.62 ± 0.04455
63
62
61
60
59
58
57
56
55
54

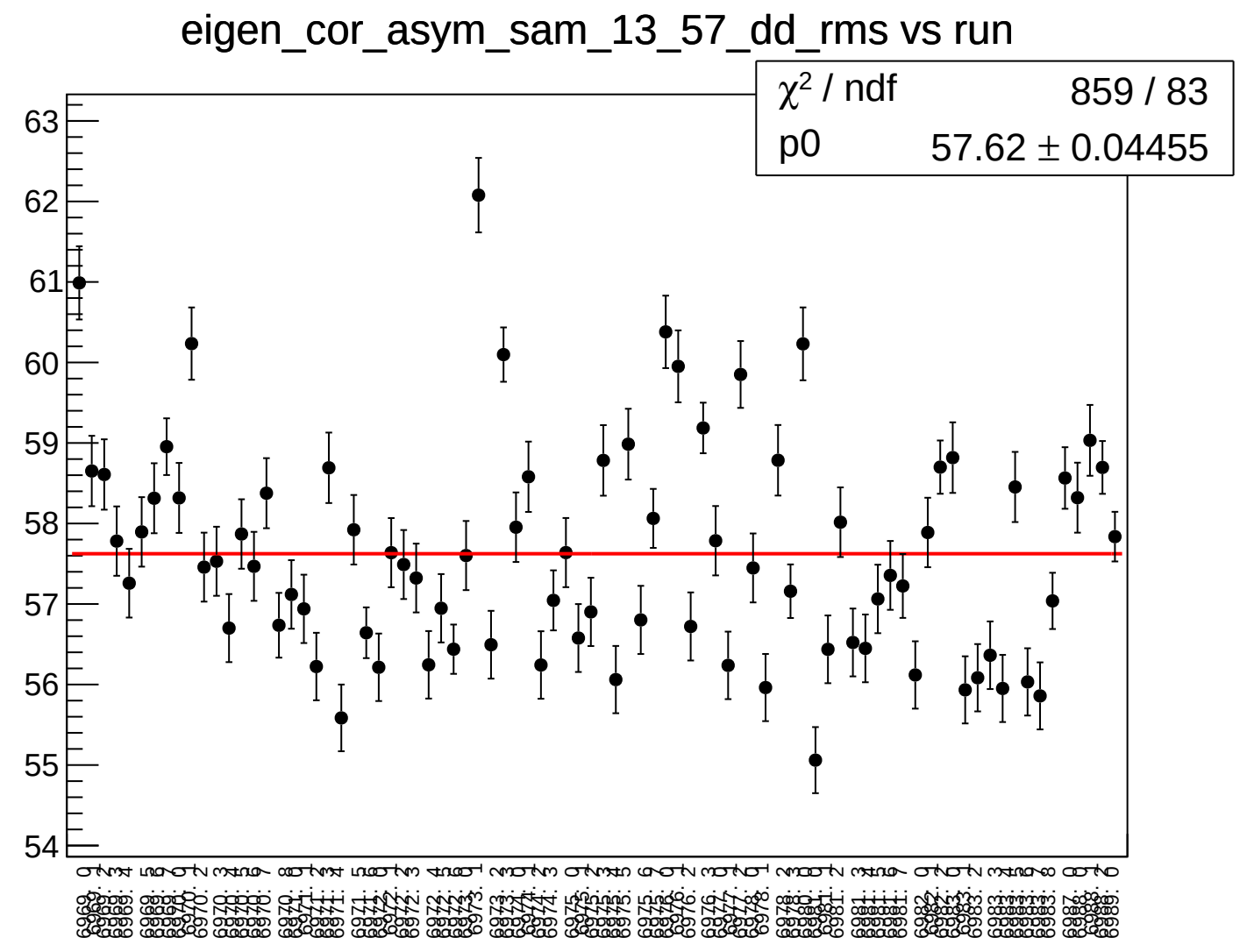

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 98.94 / 83
p0 738 ± 413.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −205.8
Std Dev 0
2
1
0
−1
−2
−3

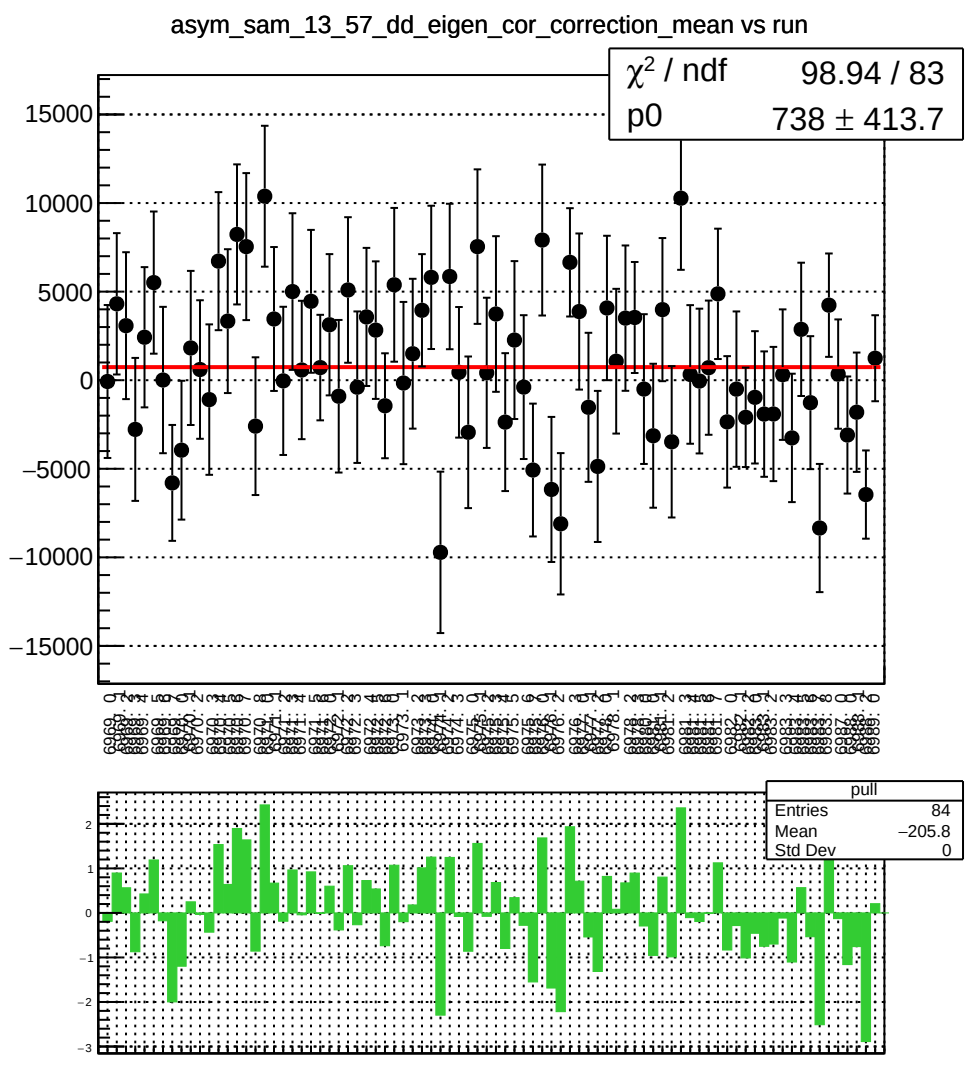

pull1D
Entries 84
Mean 0.02767
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

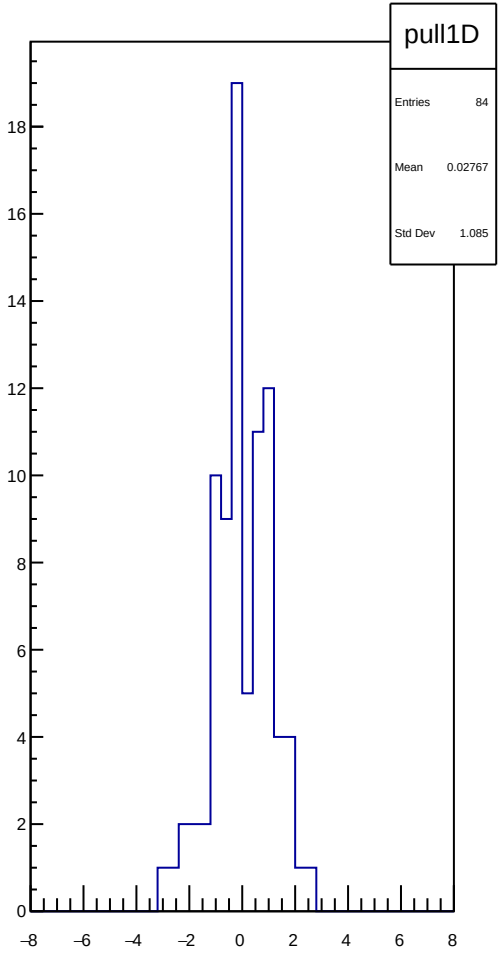

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 9791 / 83
p0 377.3 ± 0.2925
440
420
400
380
360
340
320
300

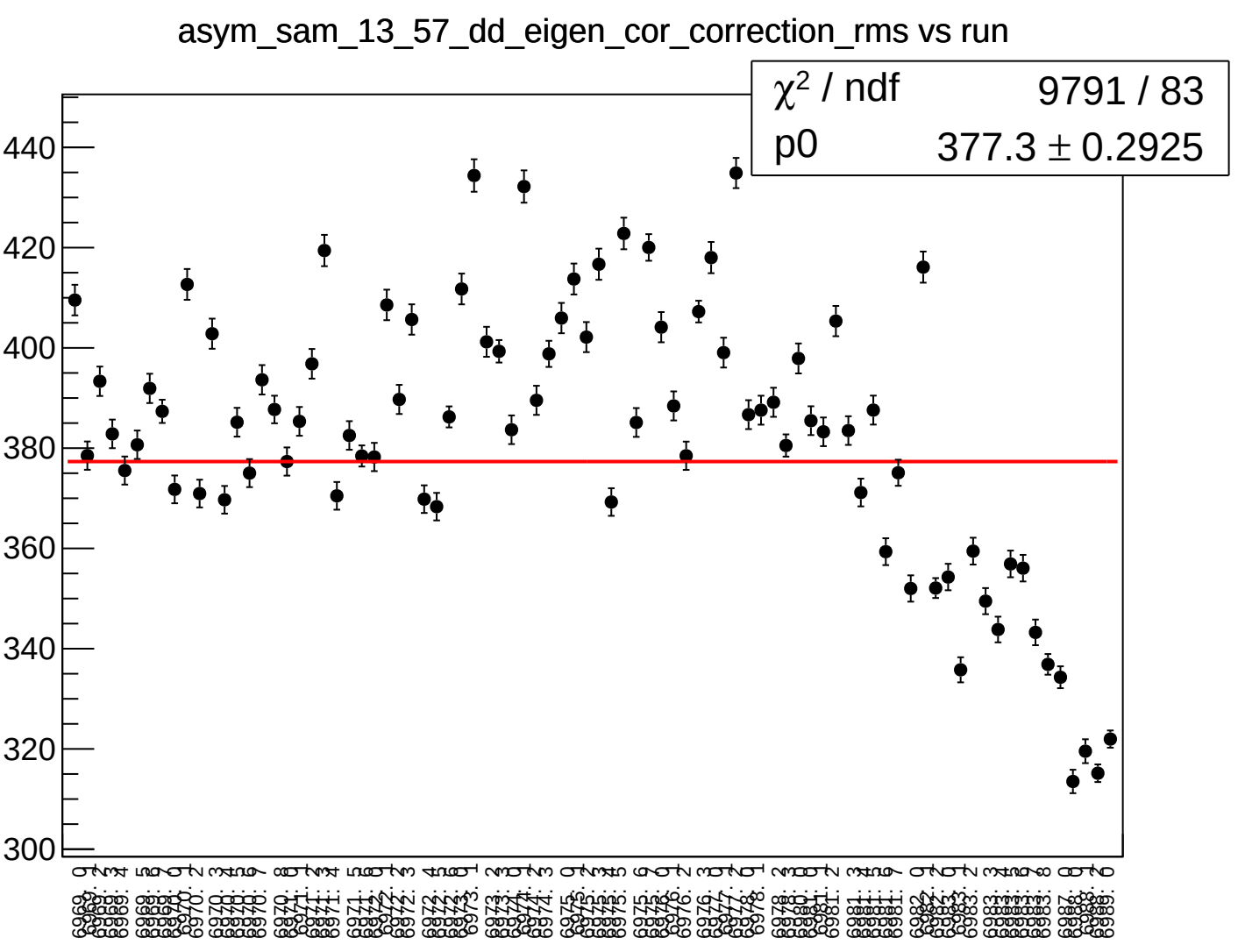

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 79.34 / 83
p0 −227.6 ± 63.01
pull
Entries 84
Mean 21.73
Std Dev 32.73

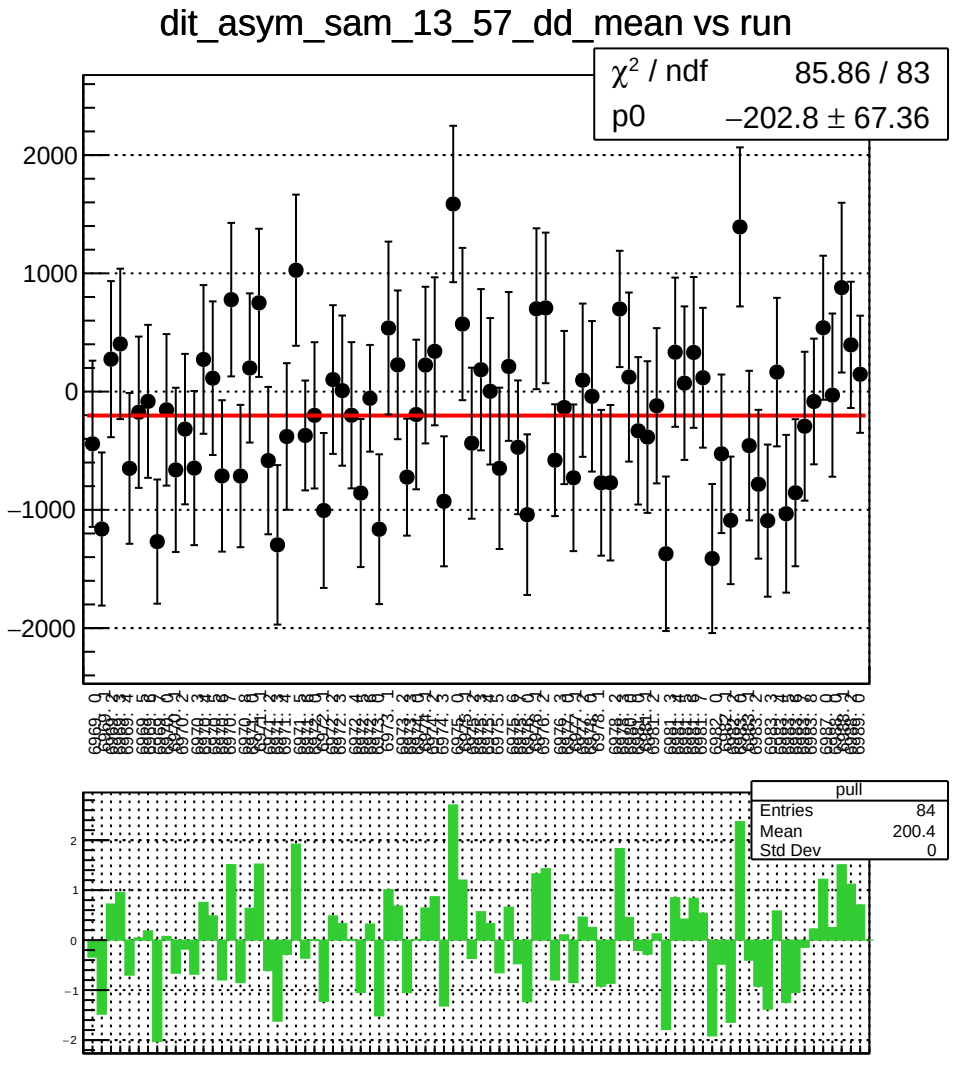

pull1D
Entries 84
Mean 0.01037
Std Dev 0.9718

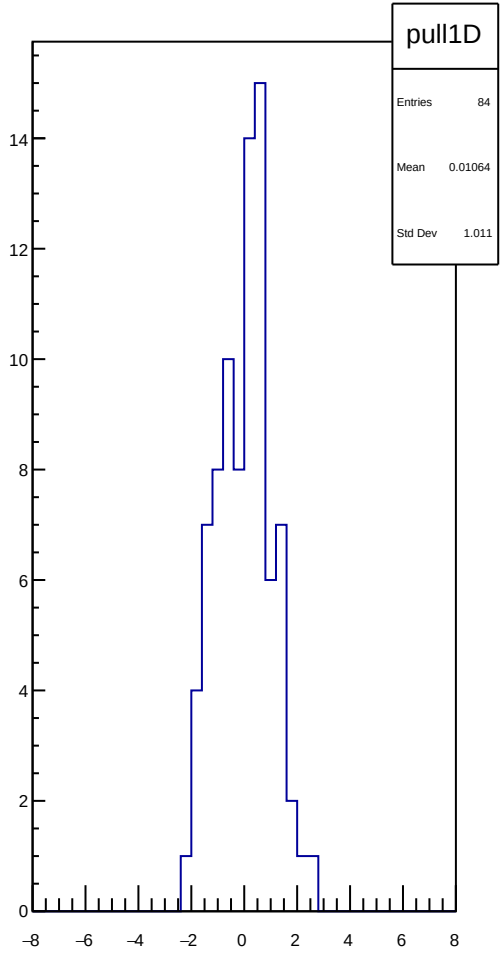

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 859 / 83
p0 57.62 ± 0.04455
63
62
61
60
59
58
57
56
55
54

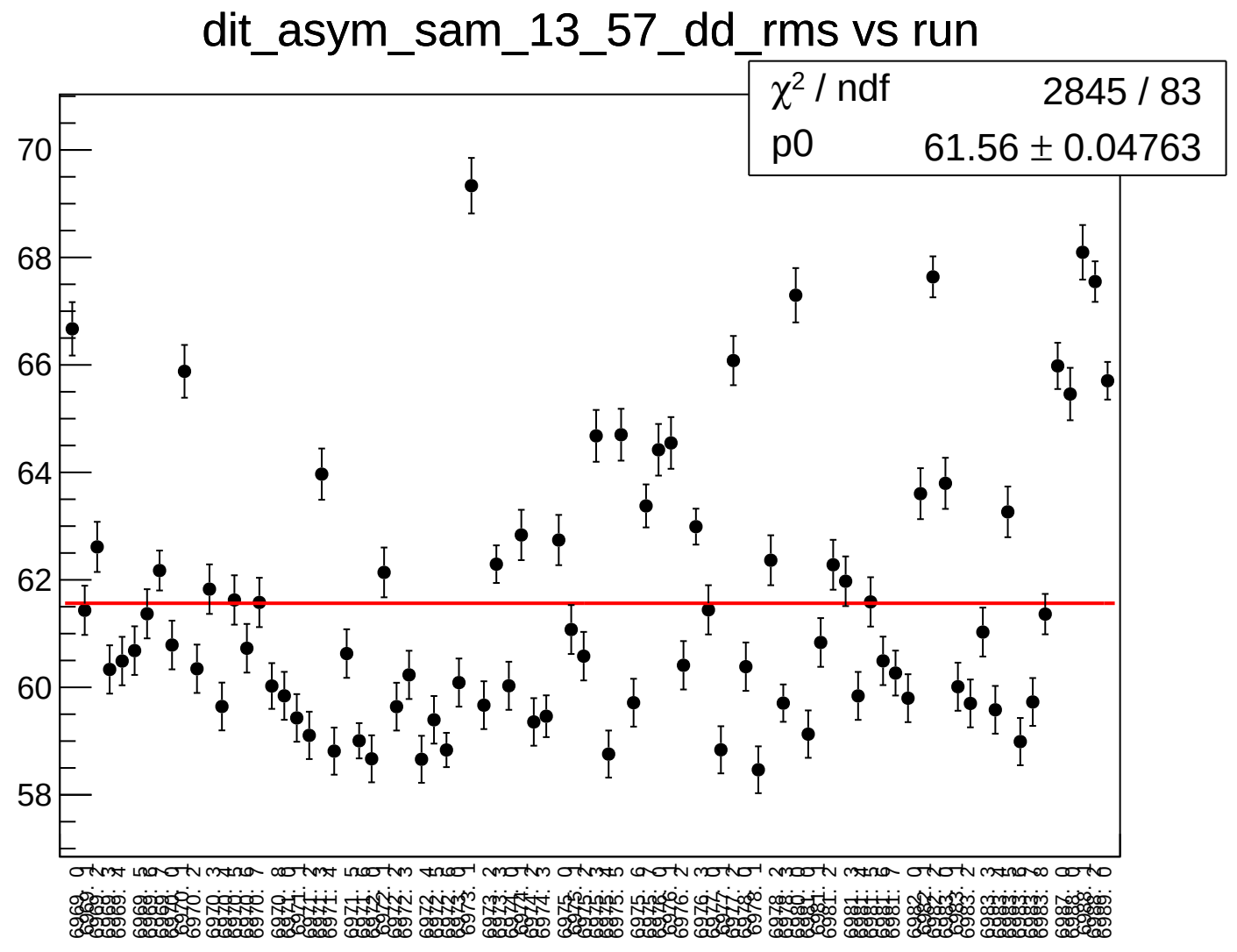

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.94 / 83
p0 738 ± 413.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −205.8
Std Dev 0
2
1
0
−1
−2
−3

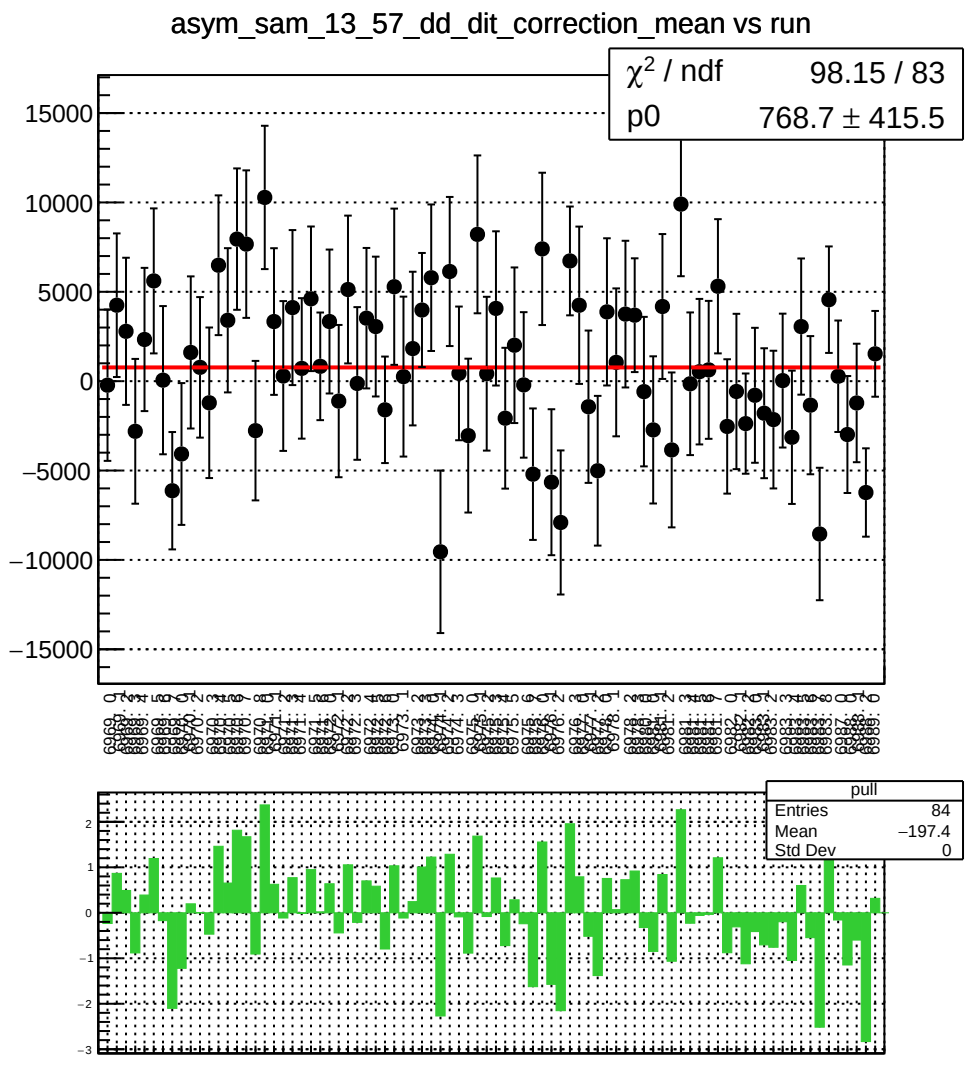

pull1D
Entries 84
Mean 0.02767
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

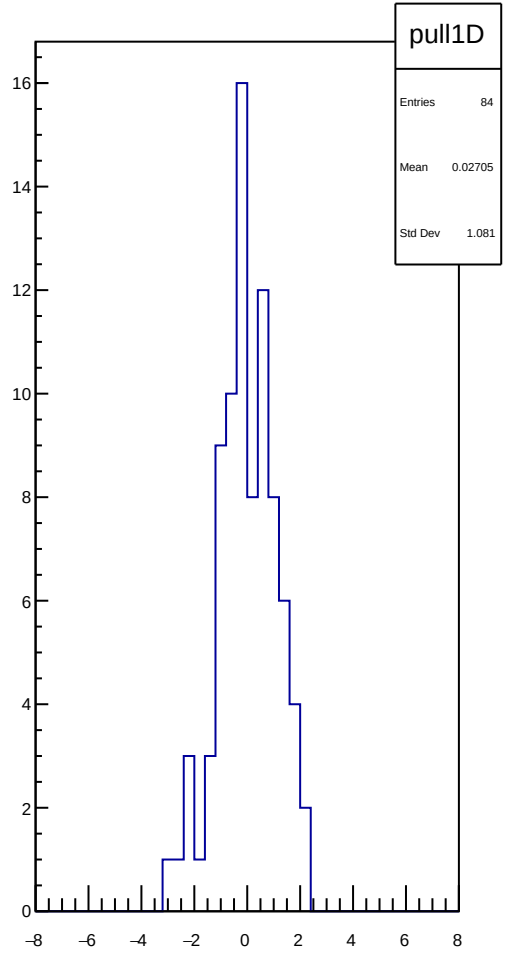

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 9791 / 83
p0 377.3 ± 0.2925
440
420
400
380
360
340
320
300

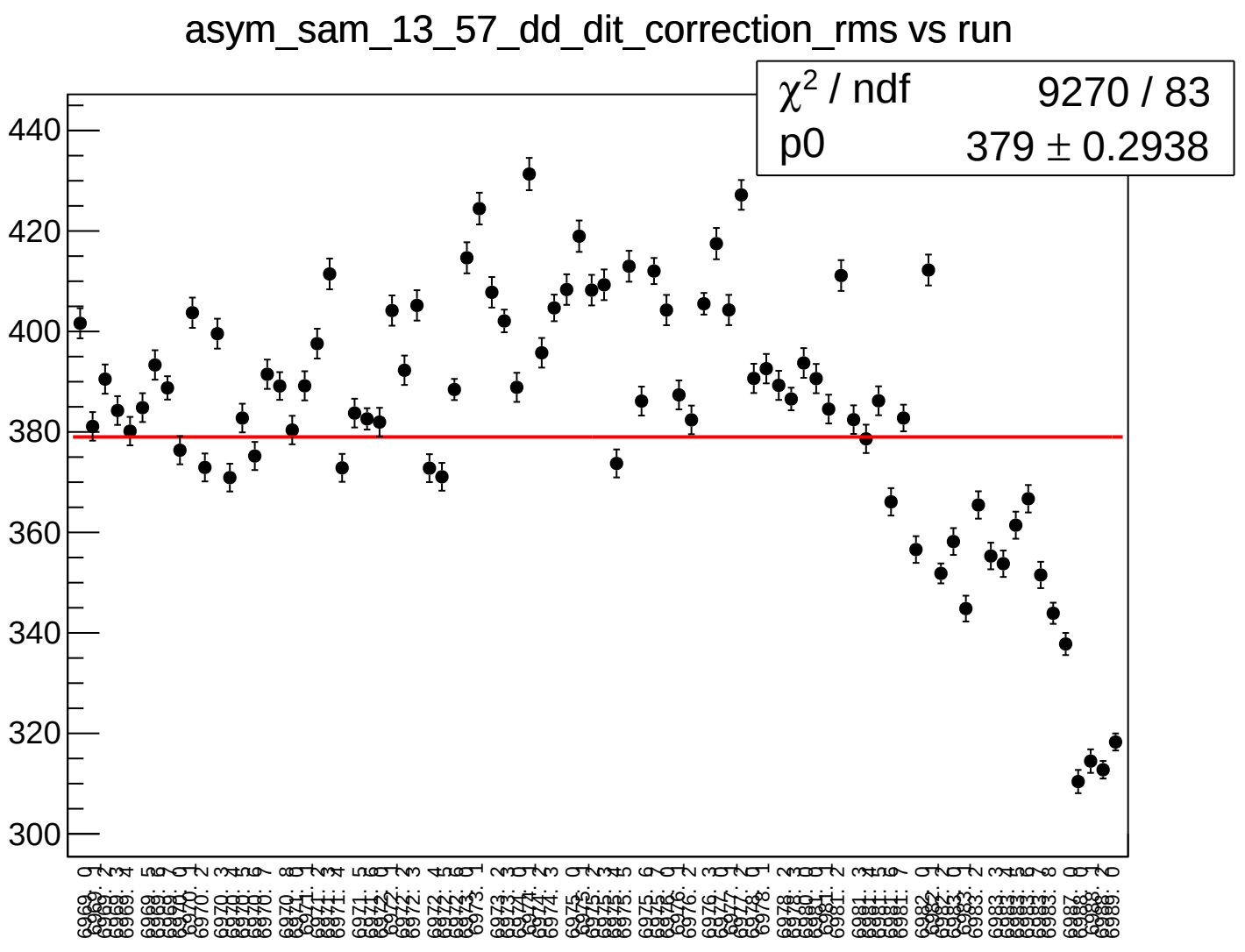

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 85.86 / 83
p0 −202.8 ± 67.36
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 200.4
Std Dev 0
2
1
0
−1
−2

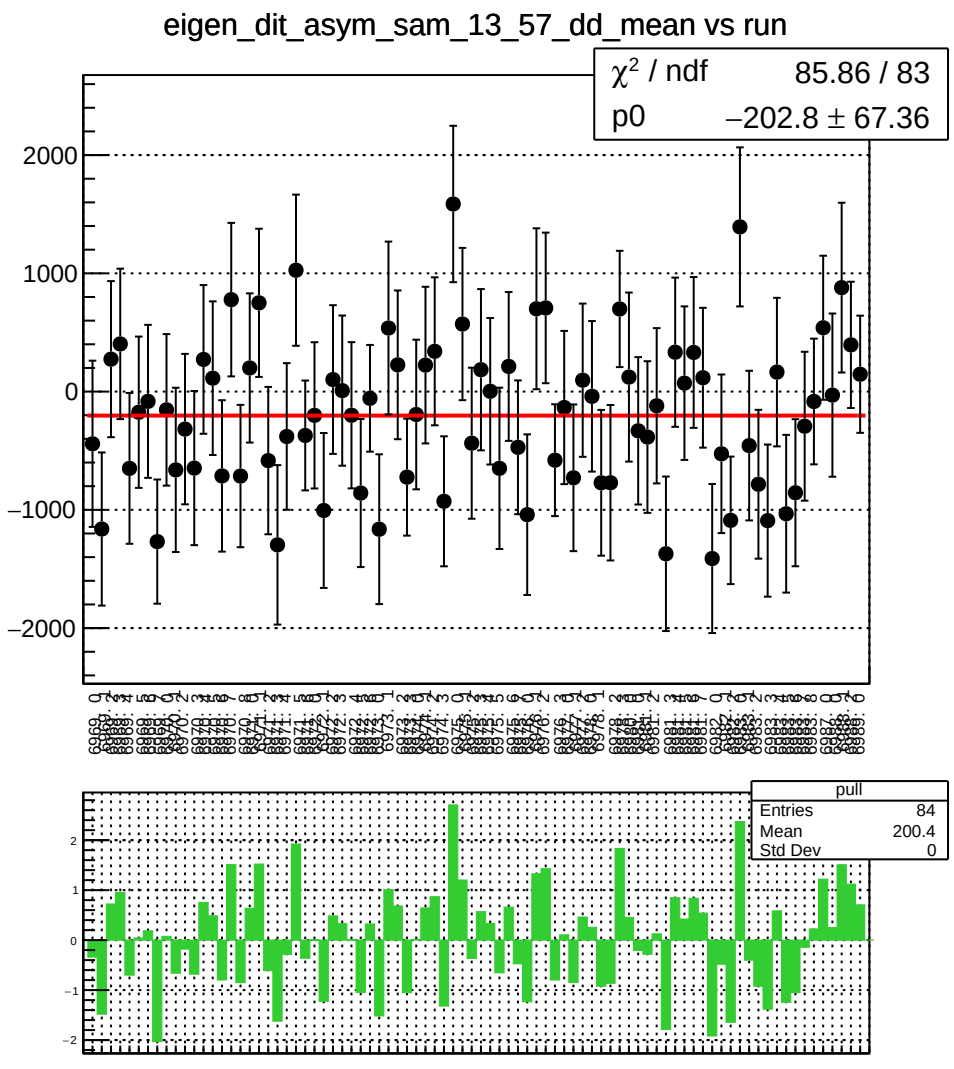

pull1D
Entries 84
Mean 0.01064
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

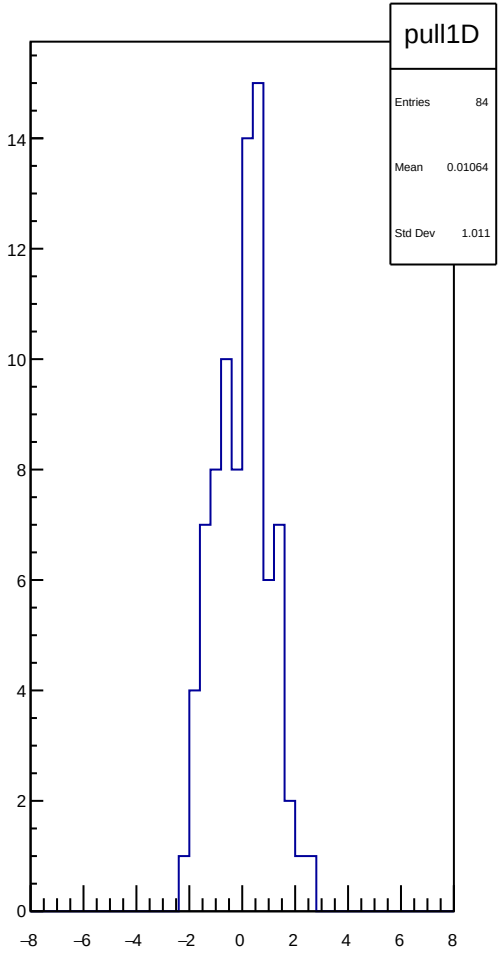

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2845 / 83
p0 61.56 ± 0.04763
70
68
66
64
62
60
58

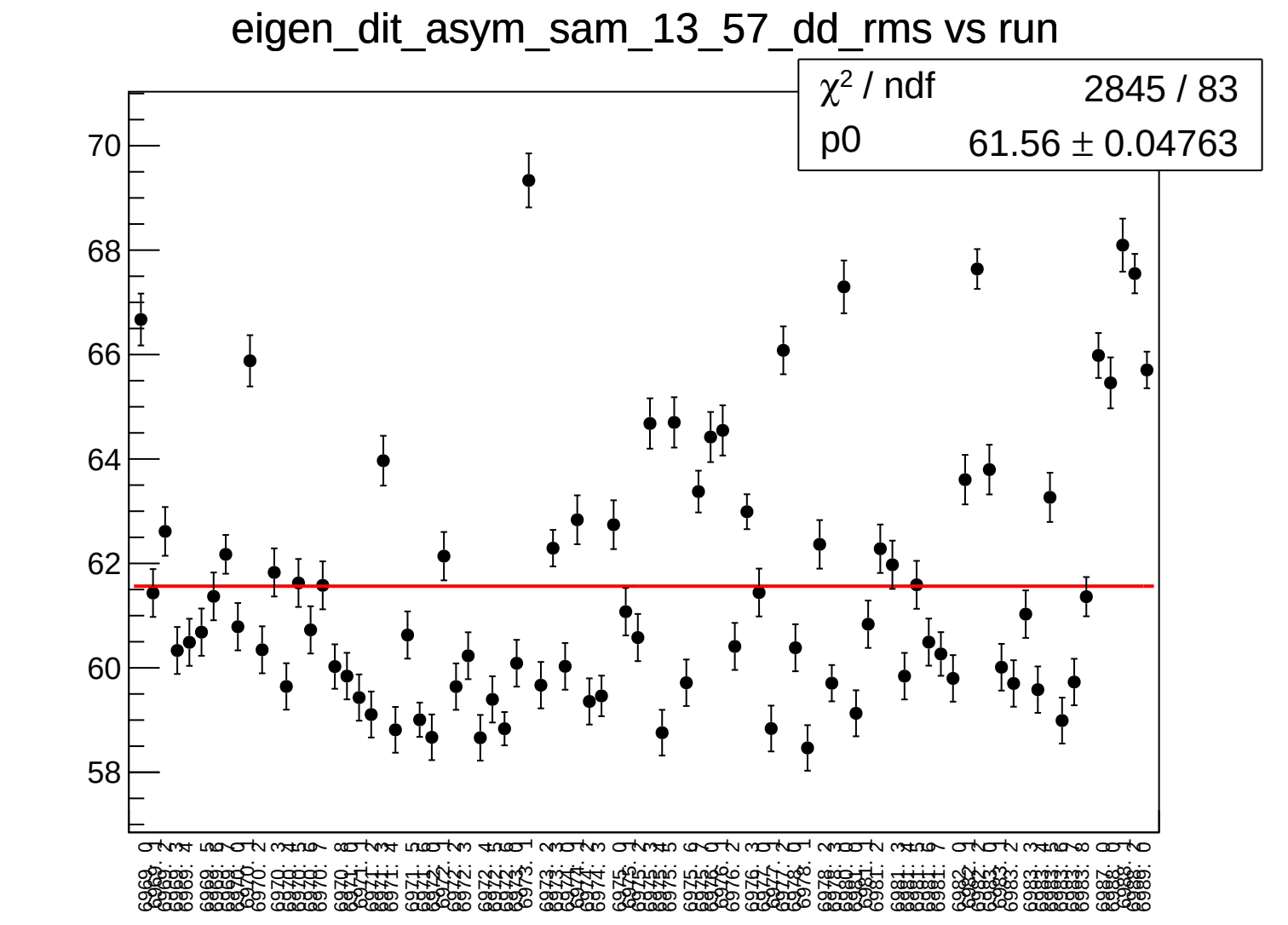

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 98.15 / 83
p0 768.7 ± 415.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −197.4
Std Dev 0
2
1
0
−1
−2
−3

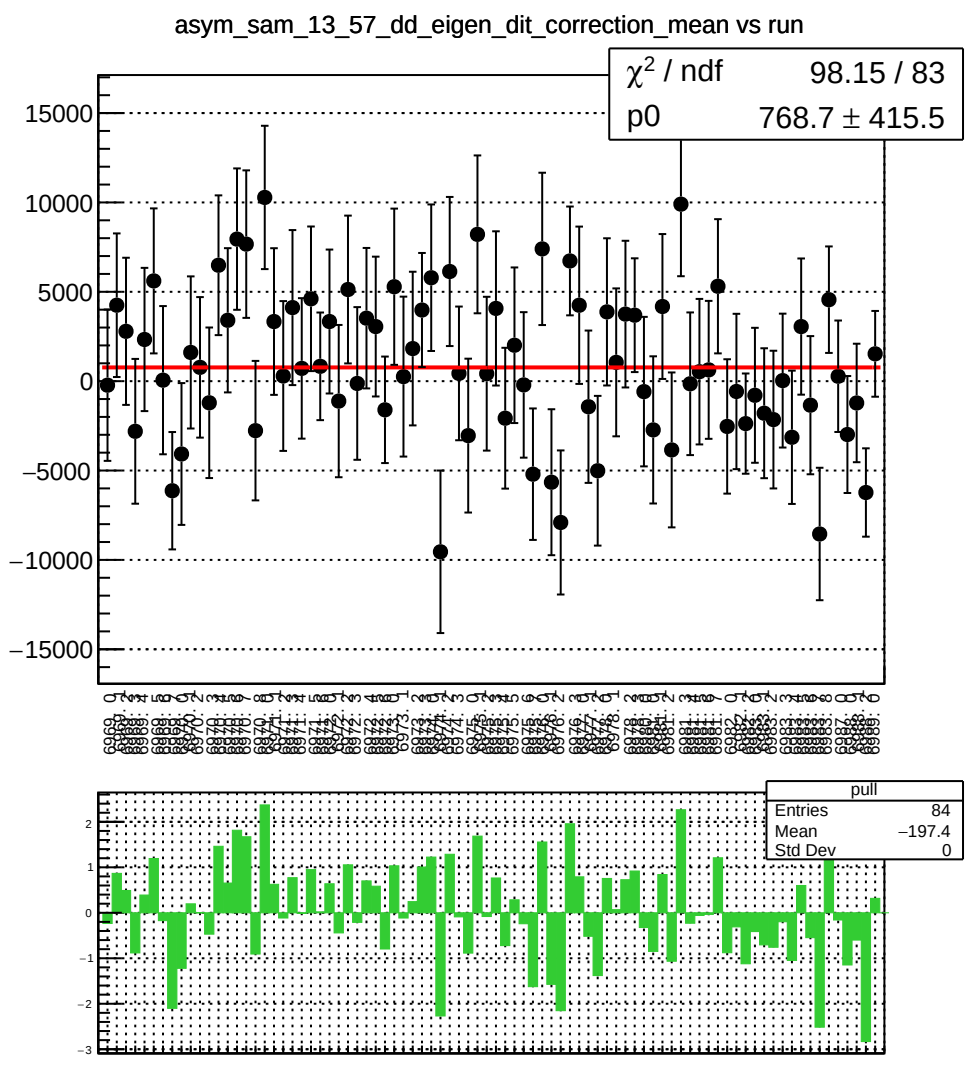

pull1D
Entries 84
Mean 0.02705
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

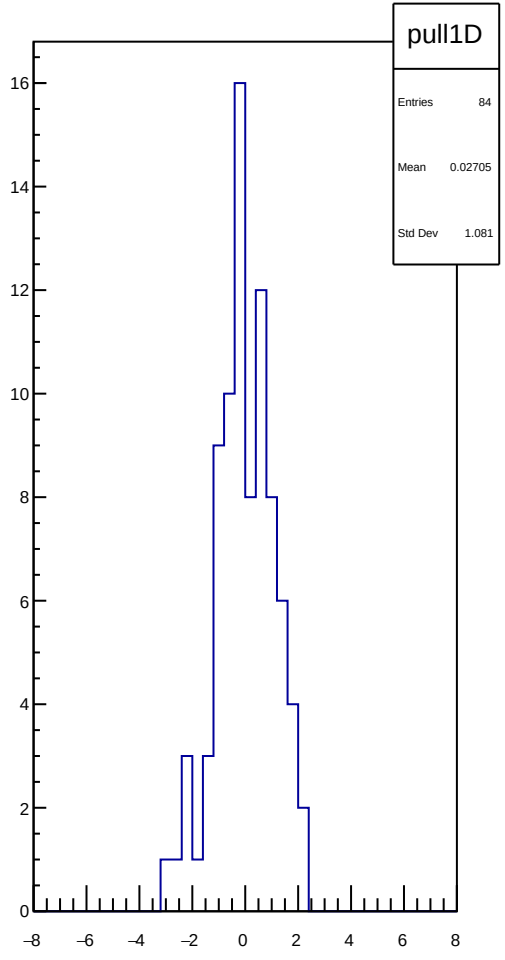

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 9270 / 83
p0 379 ± 0.2938
440
420
400
380
360
340
320
300

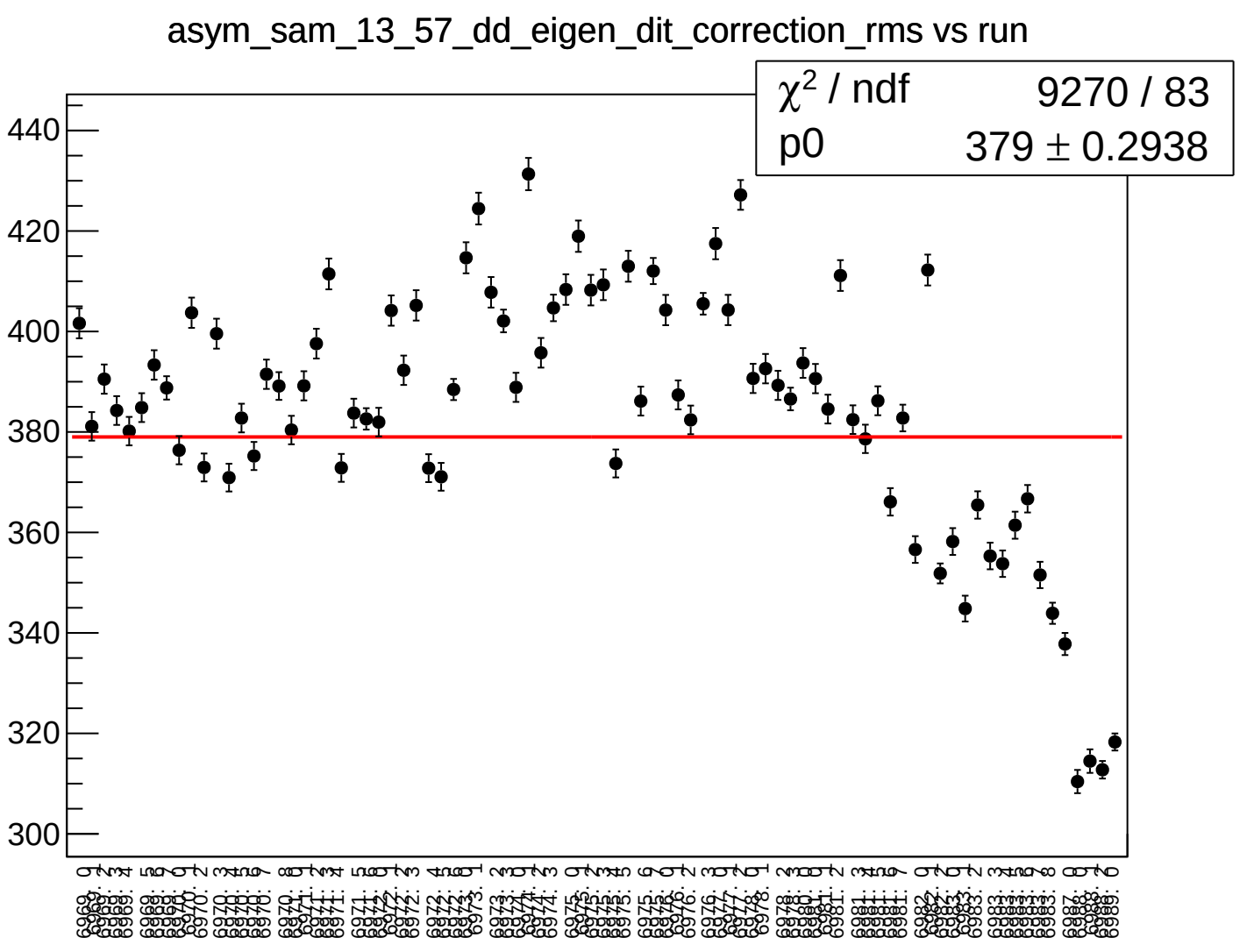

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 85.86 / 83
p0 −202.8 ± 67.36
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 200.4
Std Dev 0
2
1
0
−1
−2

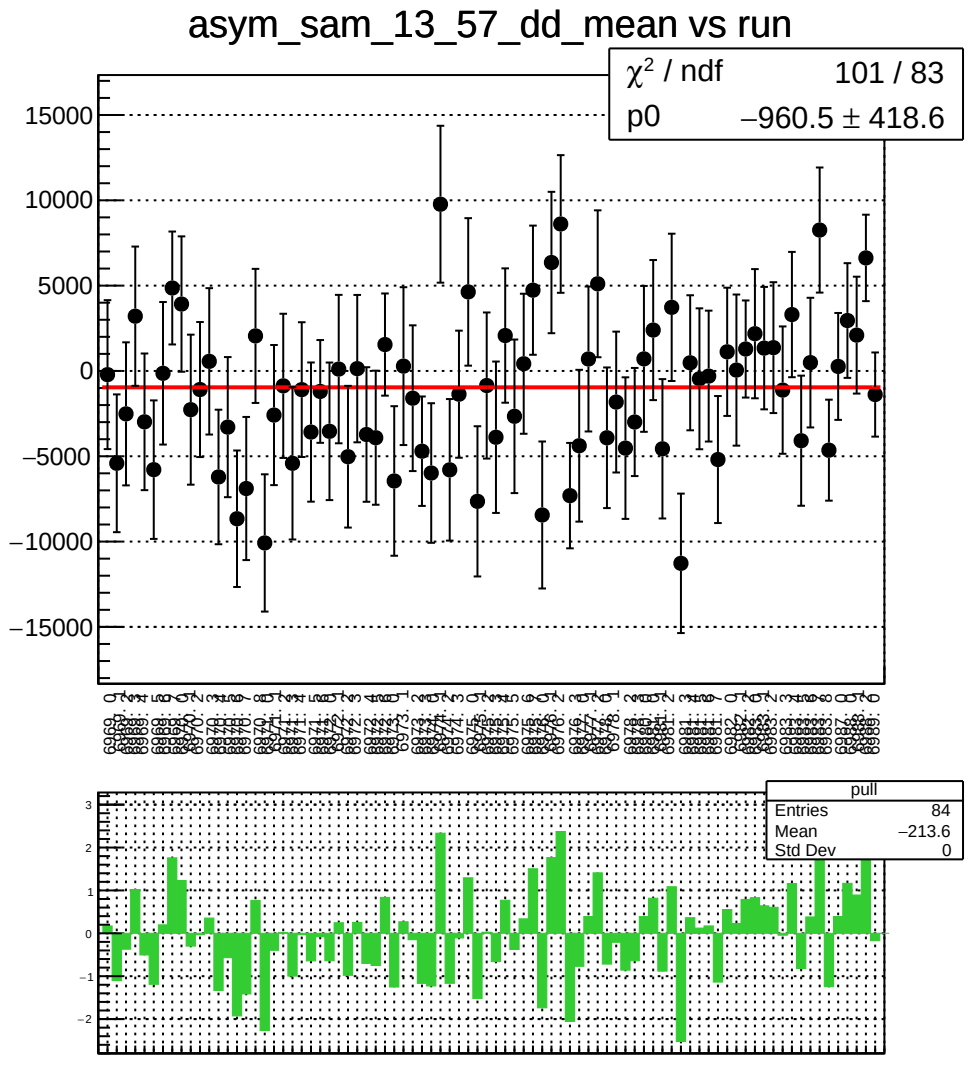

pull1D
Entries 84
Mean 0.01064
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

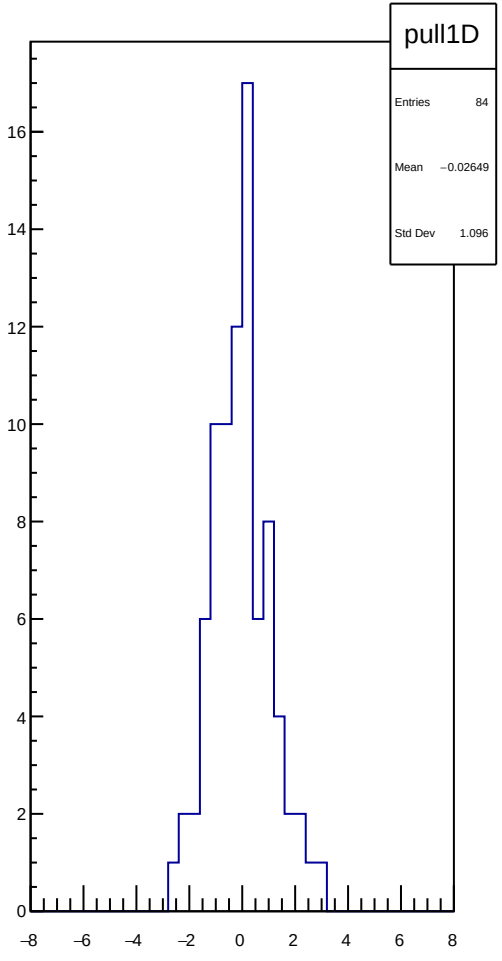

eigen_dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 2845 / 83
p0 61.56 ± 0.04763
70
68
66
64
62
60
58

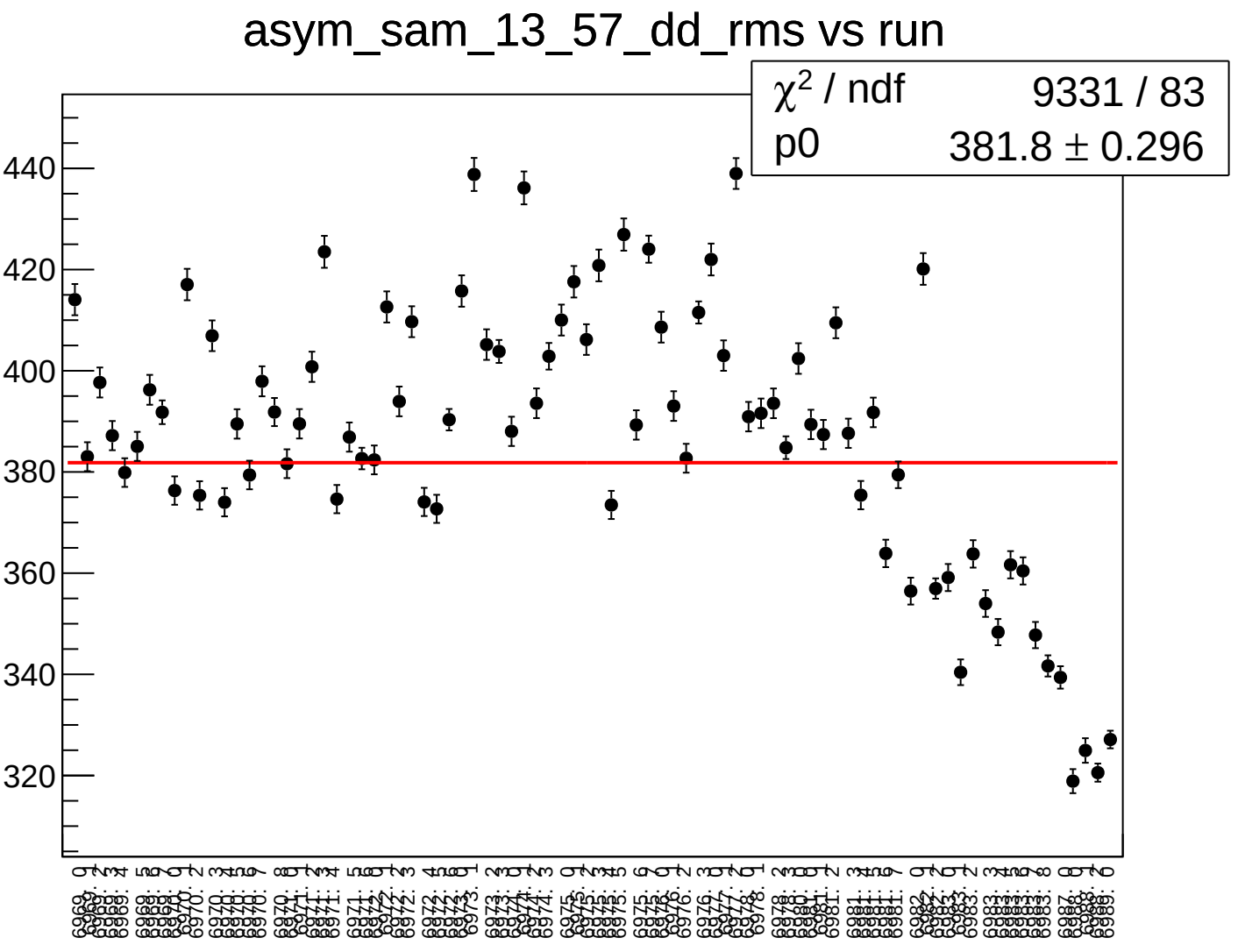

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.15 / 83
p0 768.7 ± 415.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −197.4
Std Dev 0
2
1
0
−1
−2
−3

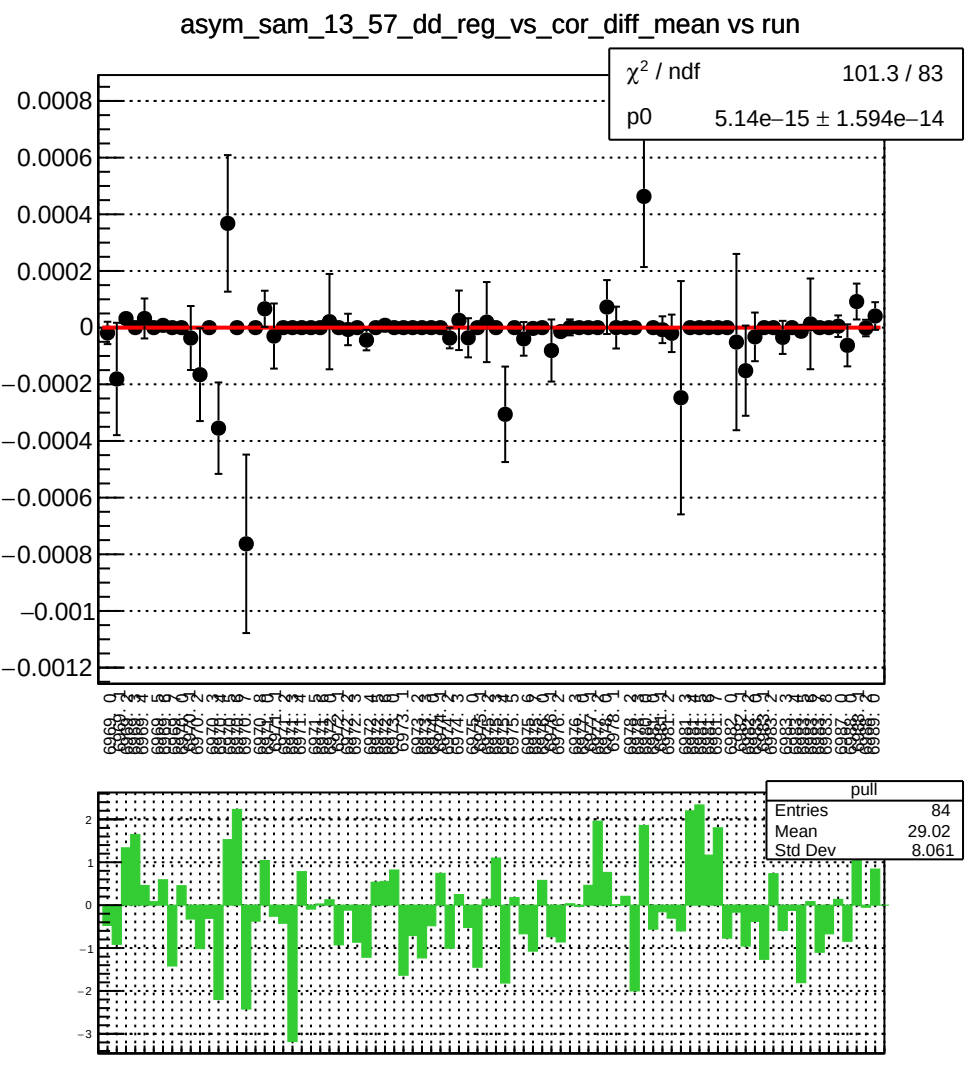

pull1D
Entries 84
Mean 0.02705
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

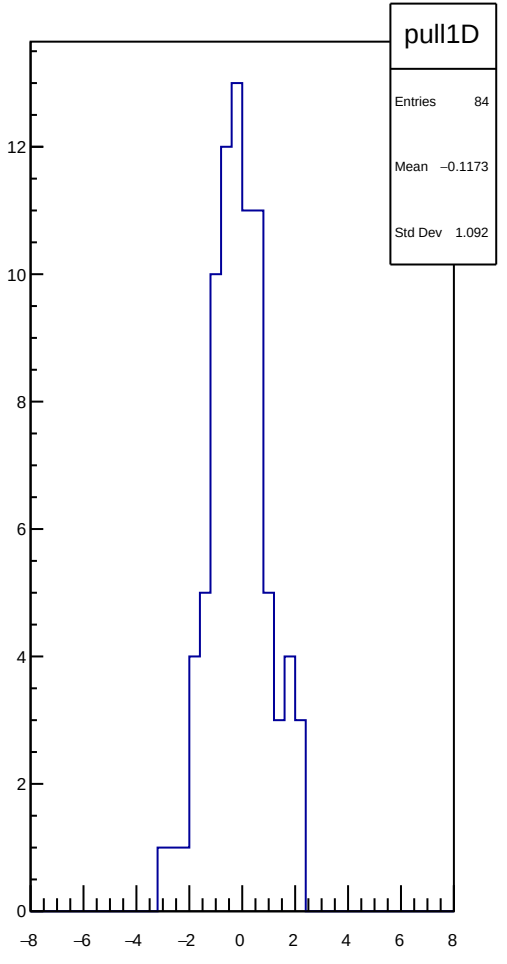

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 9270 / 83
p0 379 ± 0.2938
440
420
400
380
360
340
320
300

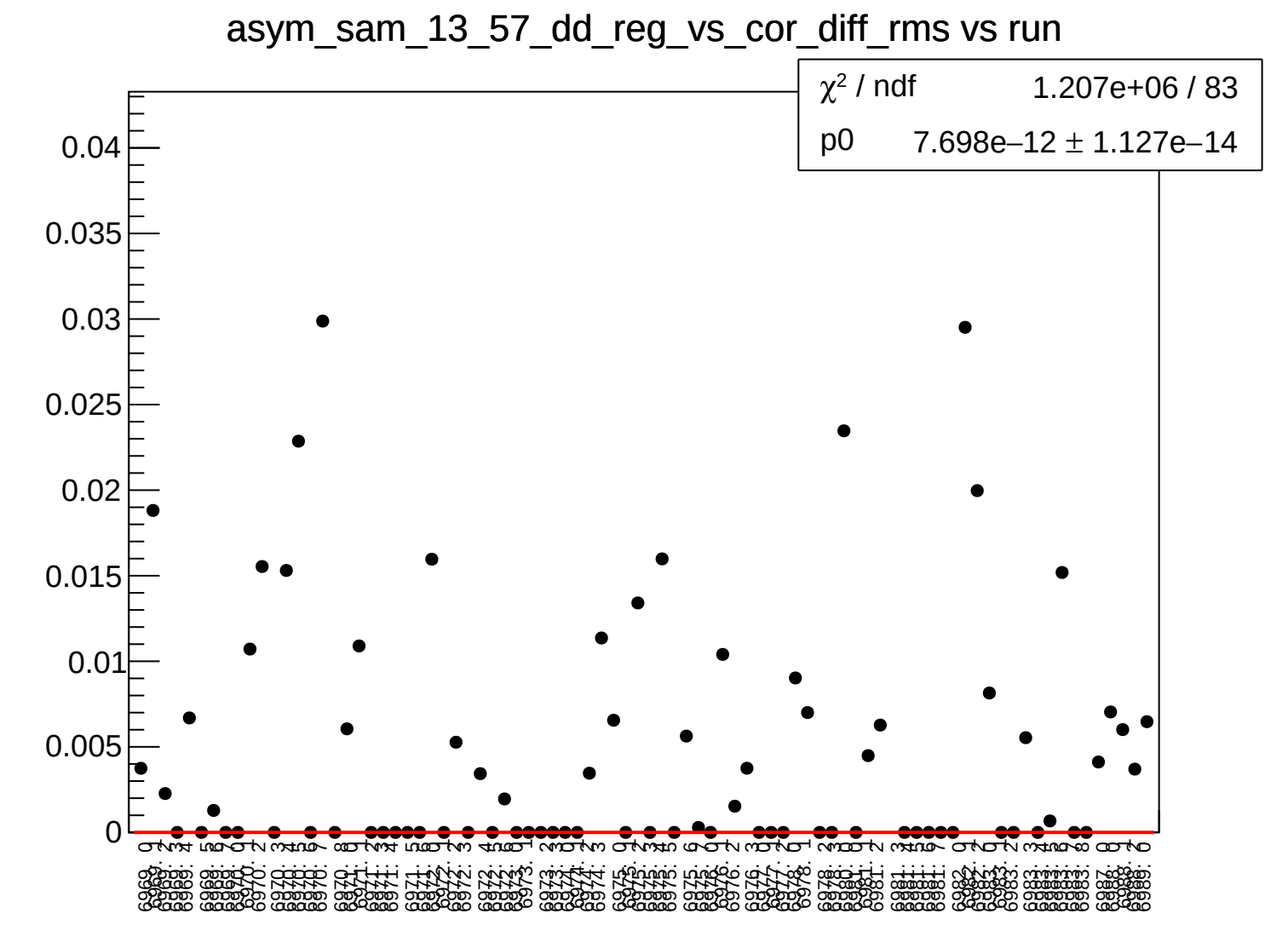

asym_sam_13_57_dd_mean vs run
χ² / ndf 101 / 83
p0 −960.5 ± 418.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −213.6
Std Dev 0
3
2
1
0
−1
−2

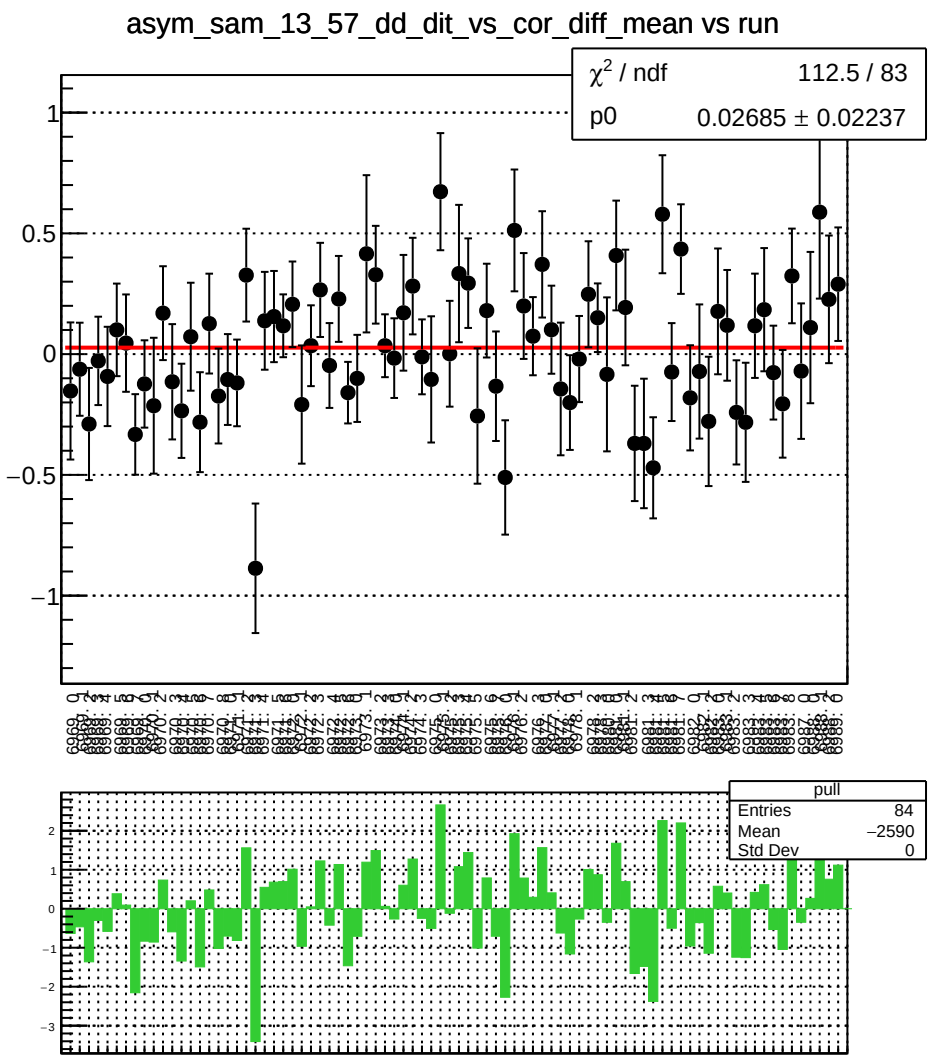

pull1D
Entries 84
Mean −0.02649
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

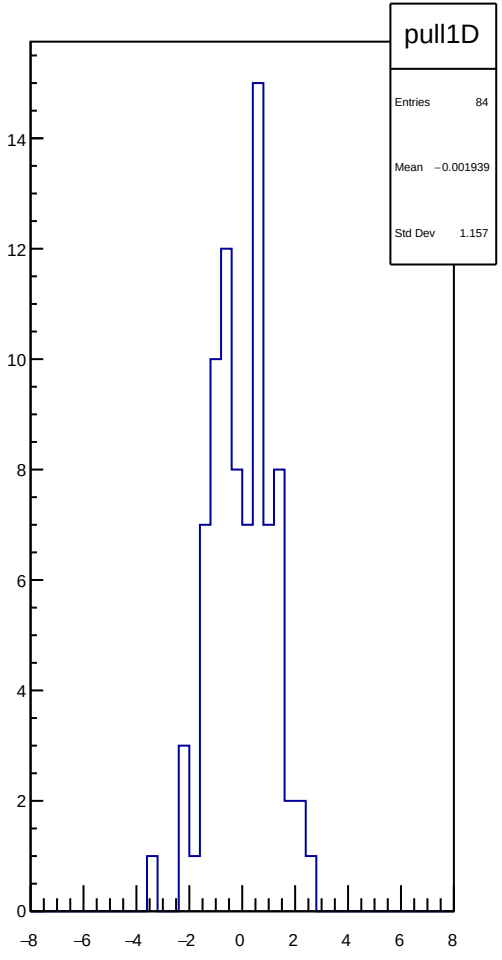

asym_sam_13_57_dd_rms vs run
χ^2 / ndf 9331 / 83
p0 381.8 ± 0.296
440
420
400
380
360
340
320

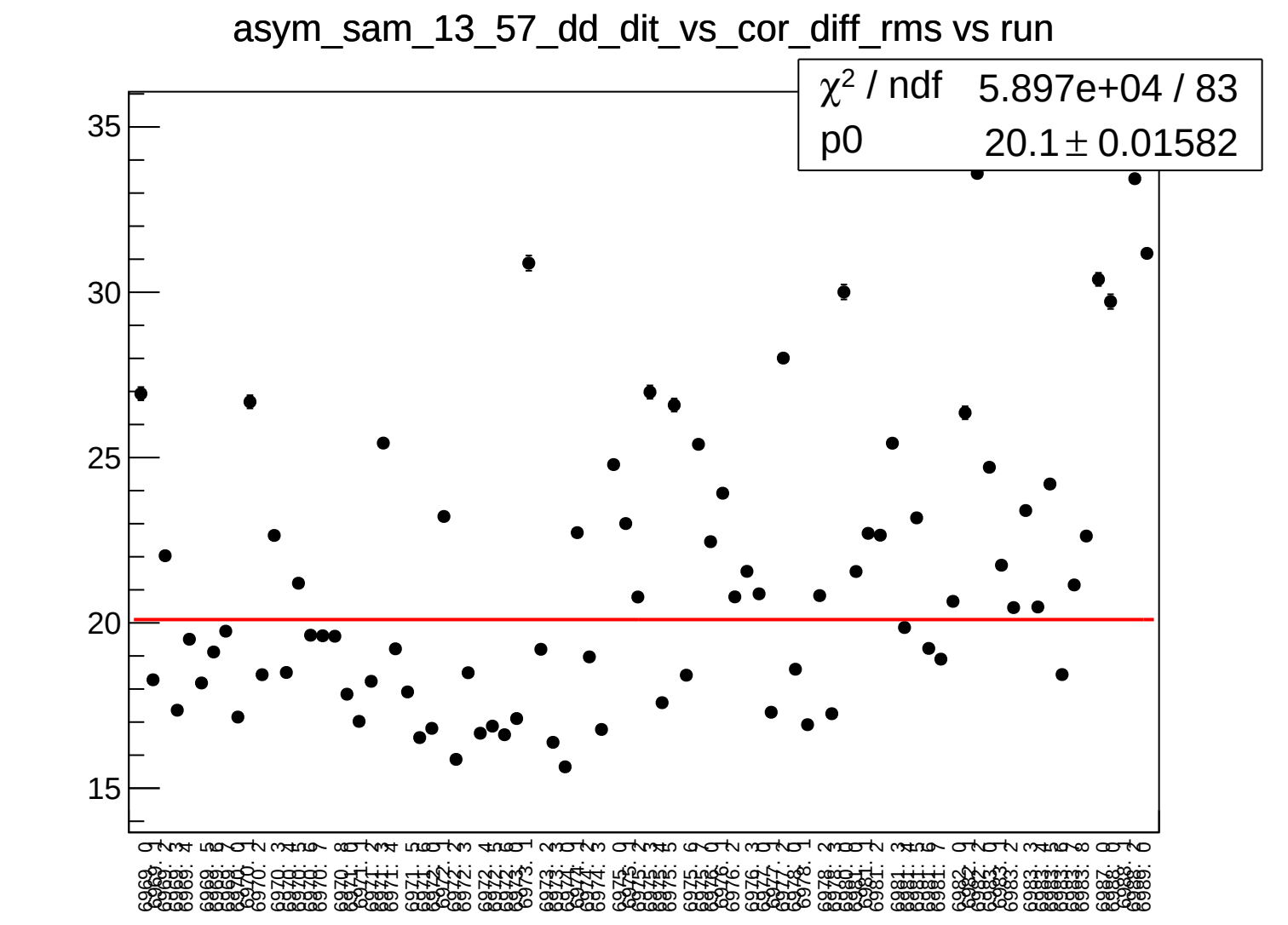

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 83
p0 5.14e−15 ± 1.594e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 84
Mean 29.02
Std Dev 8.061
2
1
0
−1
−2
−3

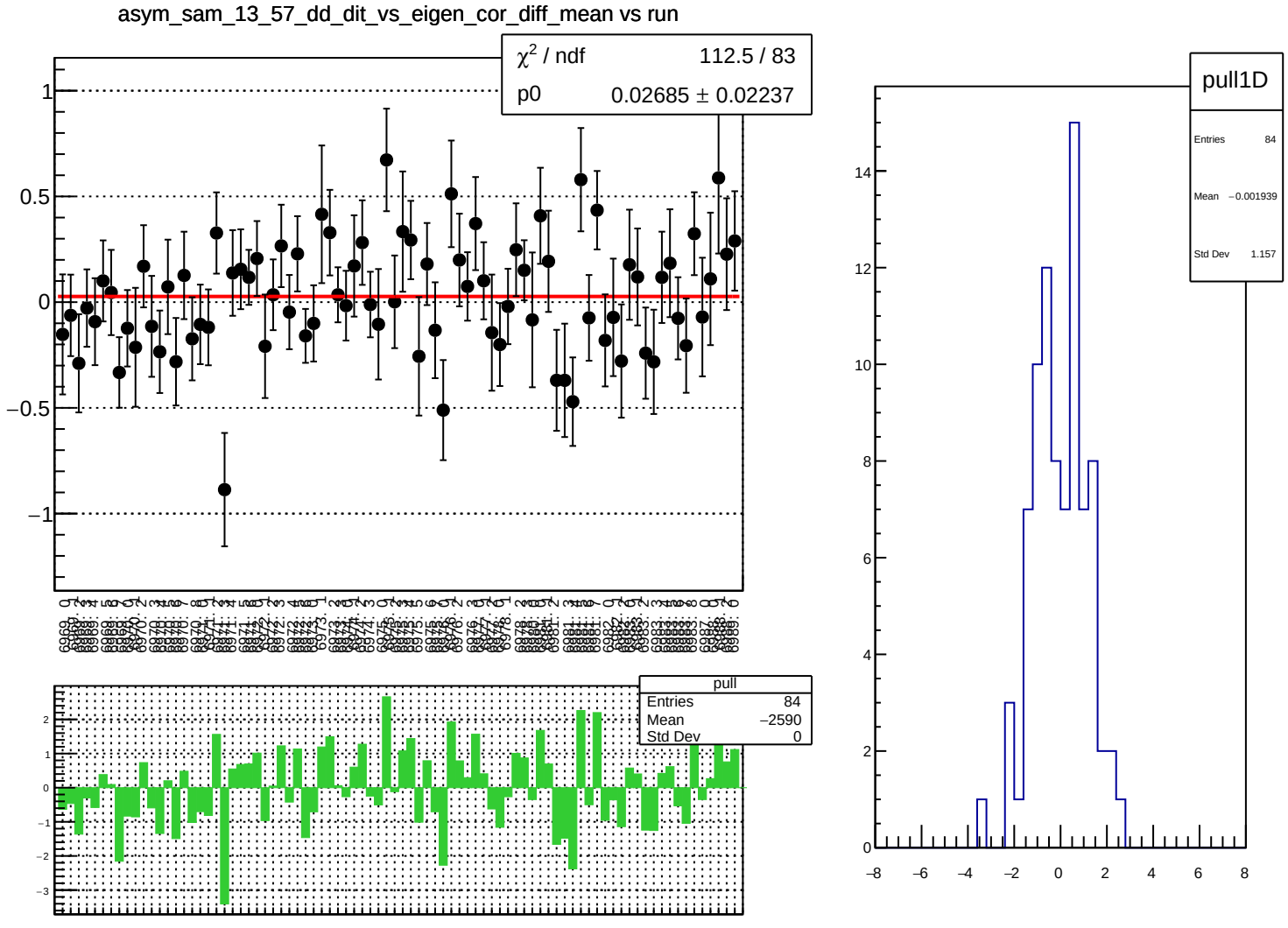

pull1D
Entries 84
Mean −0.1173
Std Dev 1.092
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

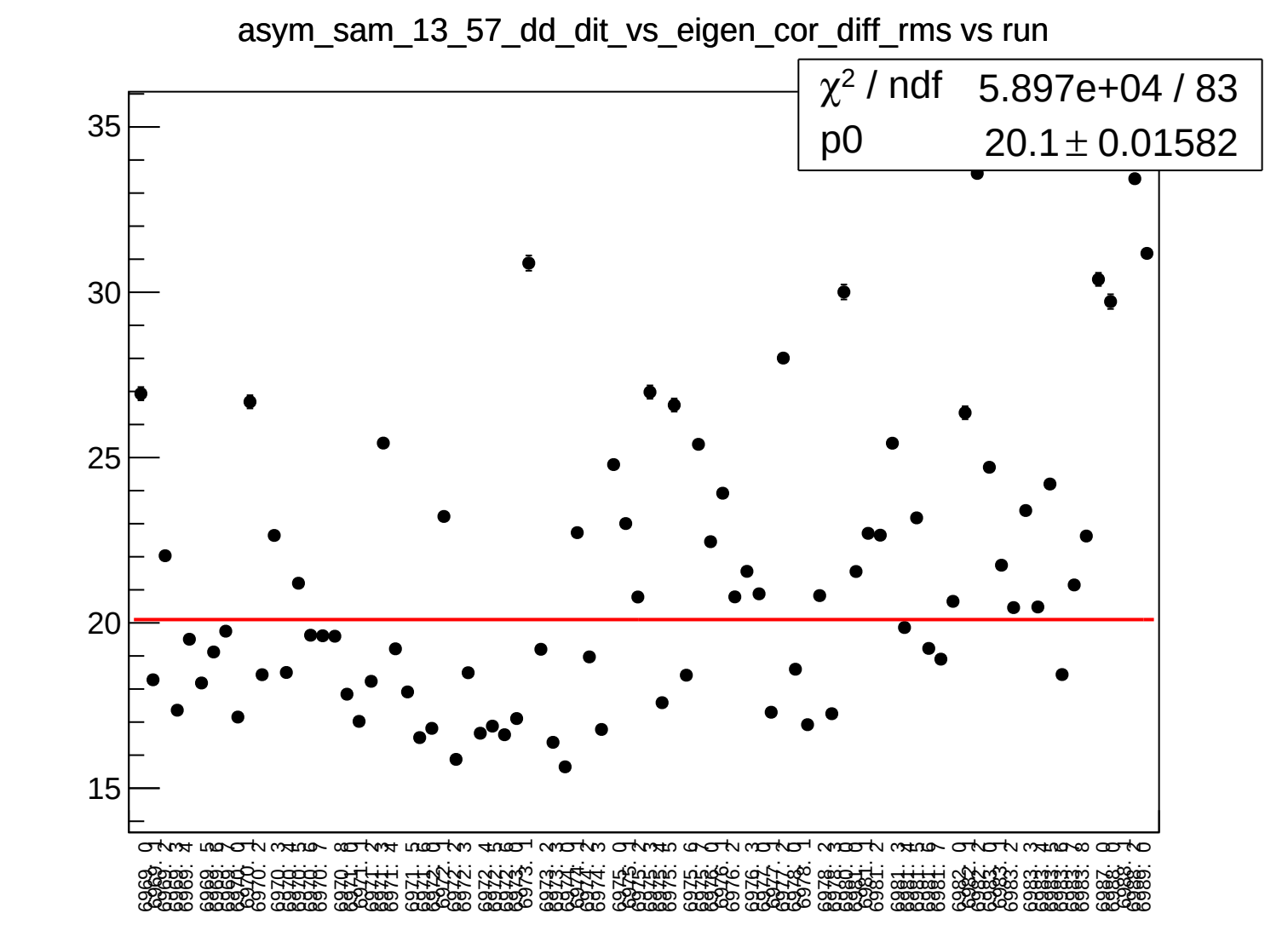

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.207e+06 / 83
p0 7.698e−12 ± 1.127e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

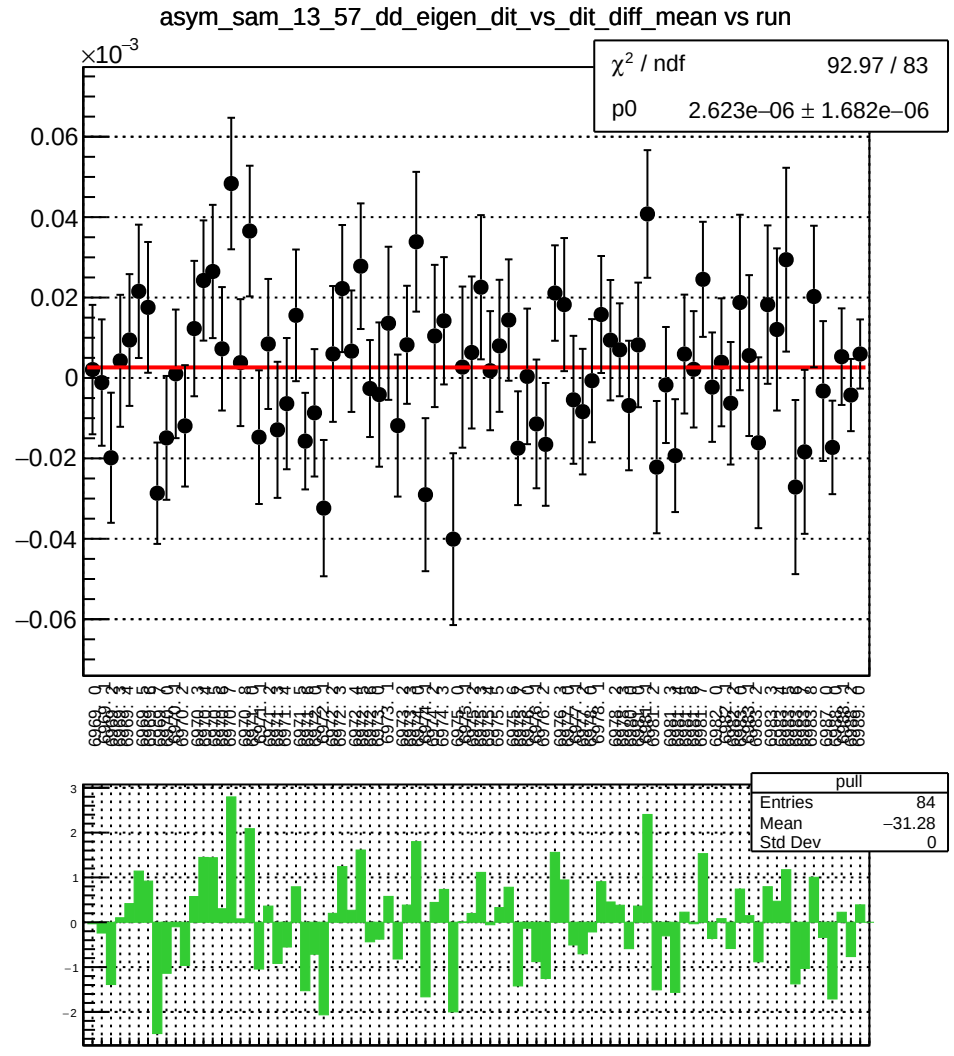

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.5 / 83
p0 0.02685 ± 0.02237
pull
Entries 84
Mean −2590
Std Dev 0

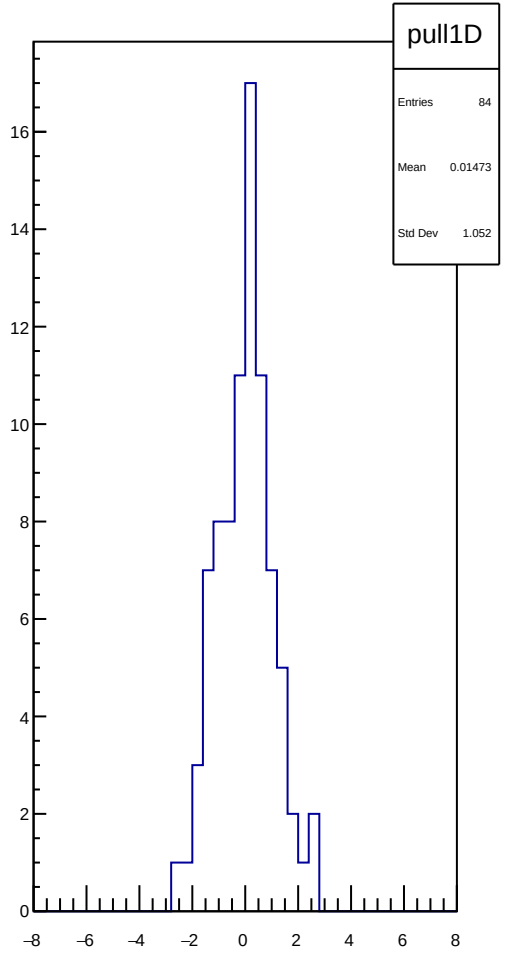

pull1D
Entries 84
Mean −0.001939
Std Dev 1.157

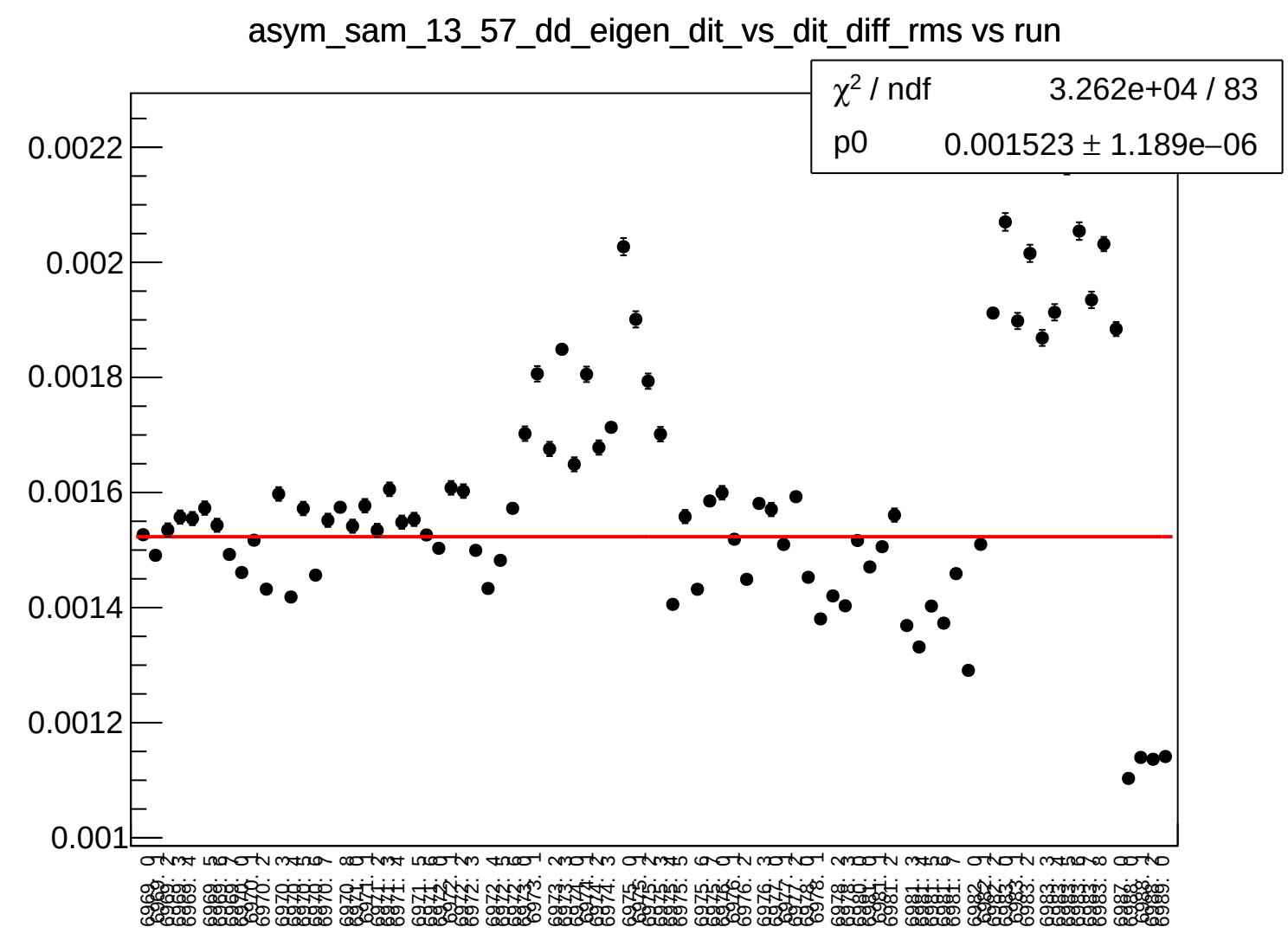

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.897e+04 / 83
p0 20.1 ± 0.01582
35
30
25
20
15

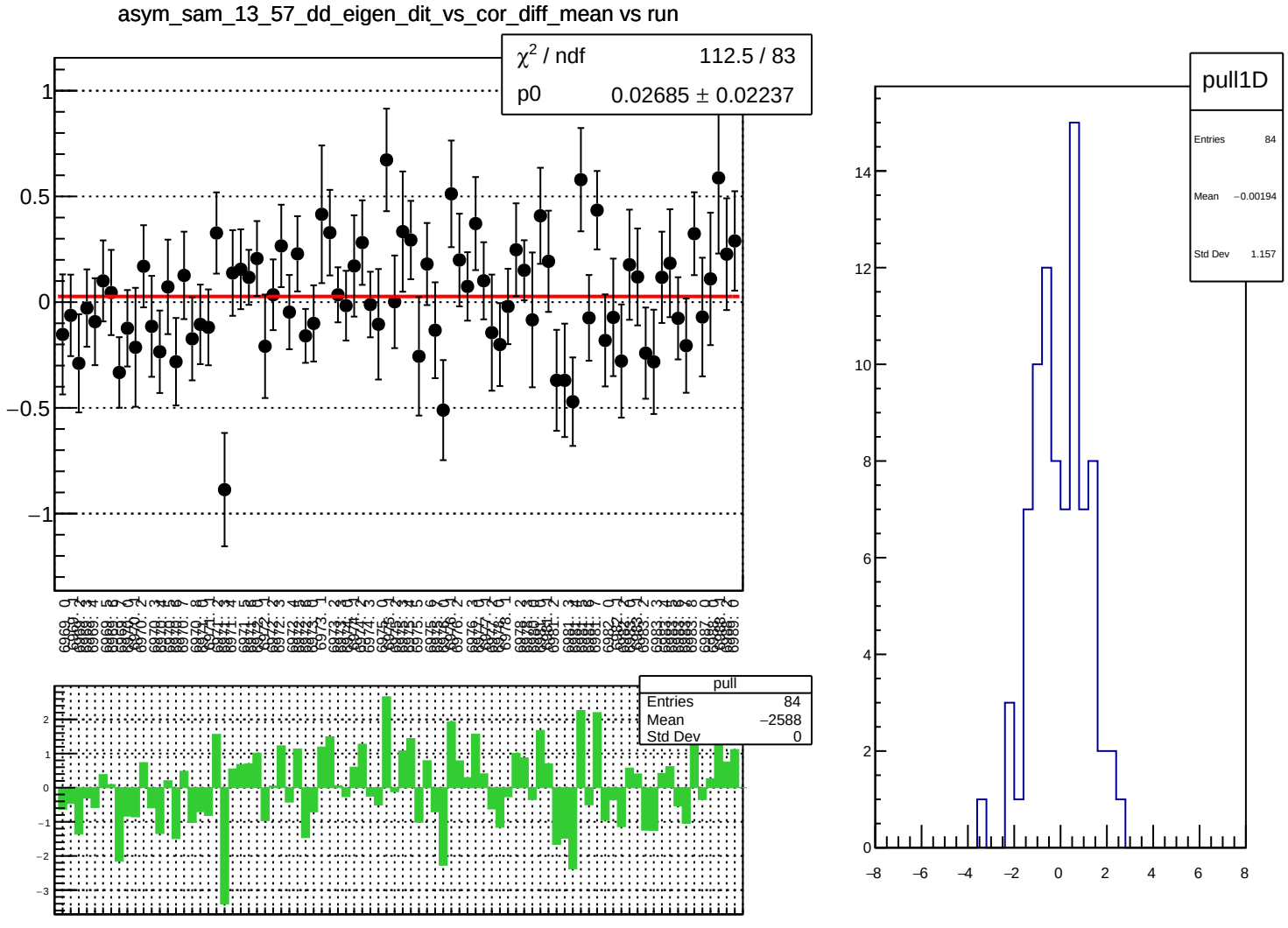

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.5 / 83
p0 0.02685 ± 0.02237
pull
Entries 84
Mean −2590
Std Dev 0
pull1D
Entries 84
Mean −0.001939
Std Dev 1.157

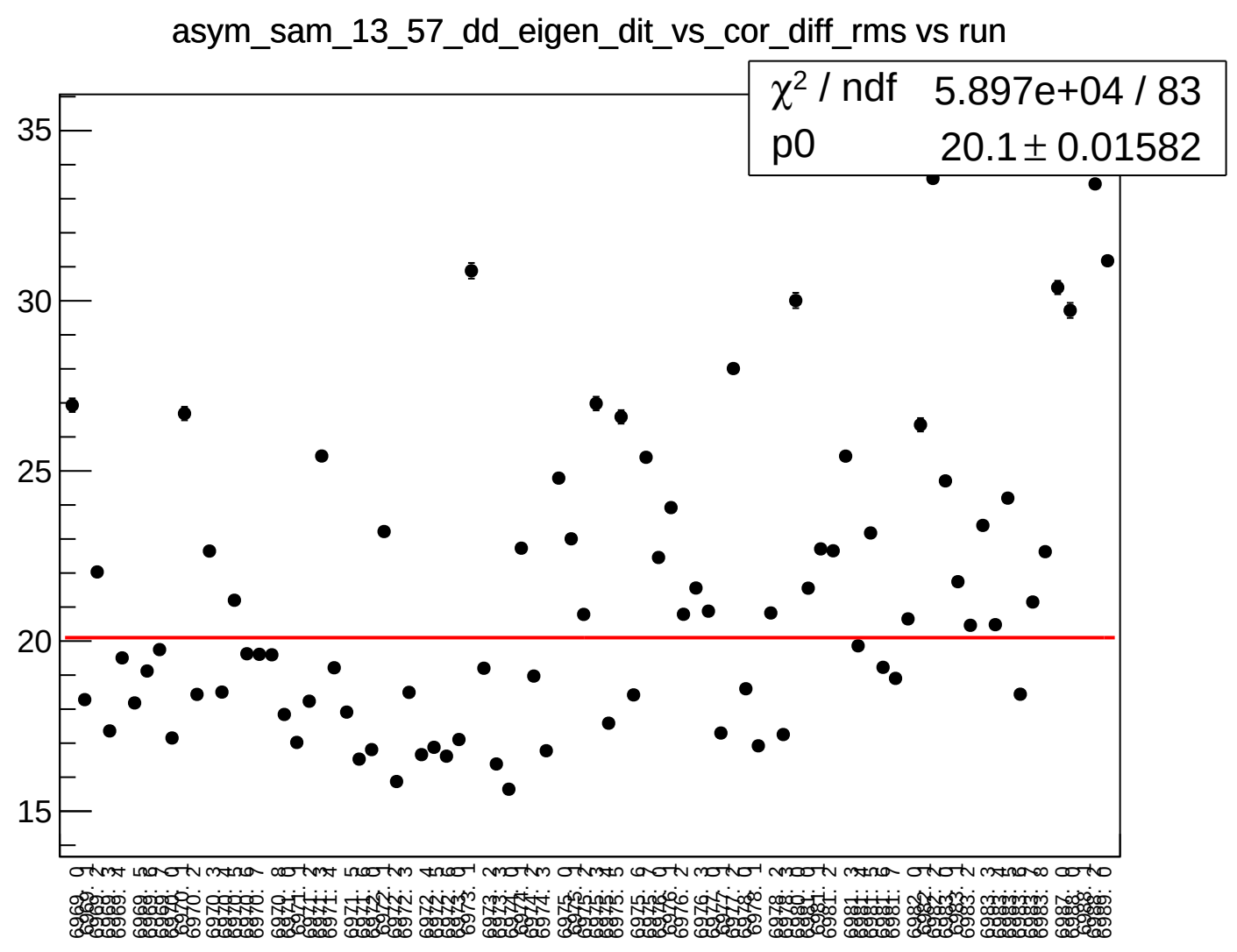

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.897e+04 / 83
p0 20.1 ± 0.01582
35
30
25
20
15


asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.97 / 83
p0 2.623e−06 ± 1.682e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean −31.28
Std Dev 0
3
2
1
0
−1
−2

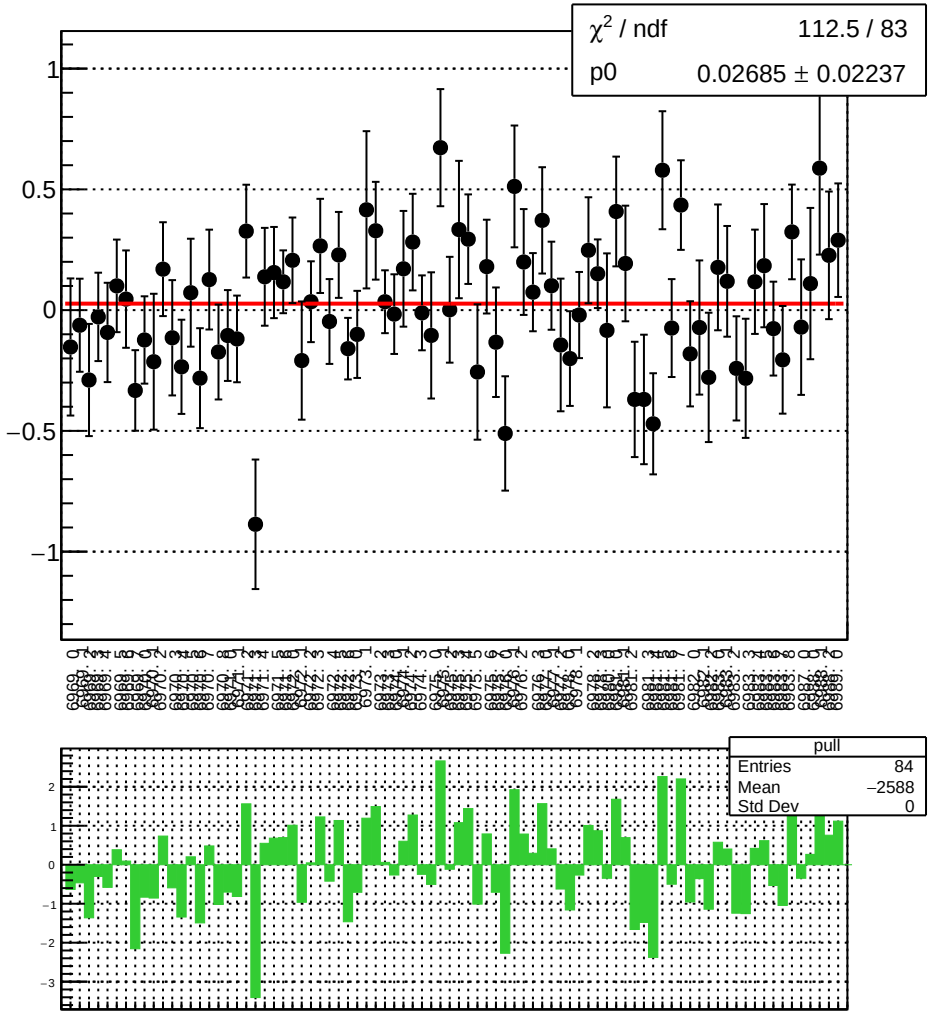

pull1D
Entries 84
Mean 0.01473
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

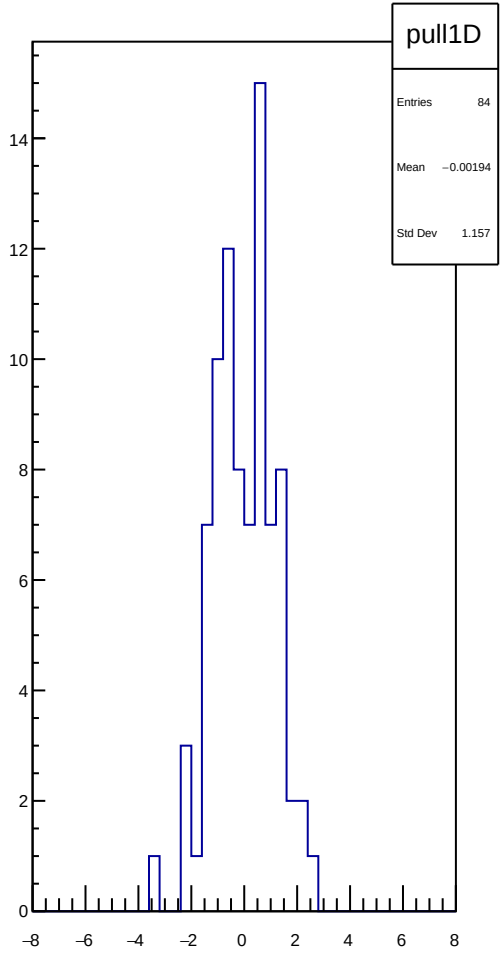

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.262e+04 / 83
p0 0.001523 ± 1.189e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

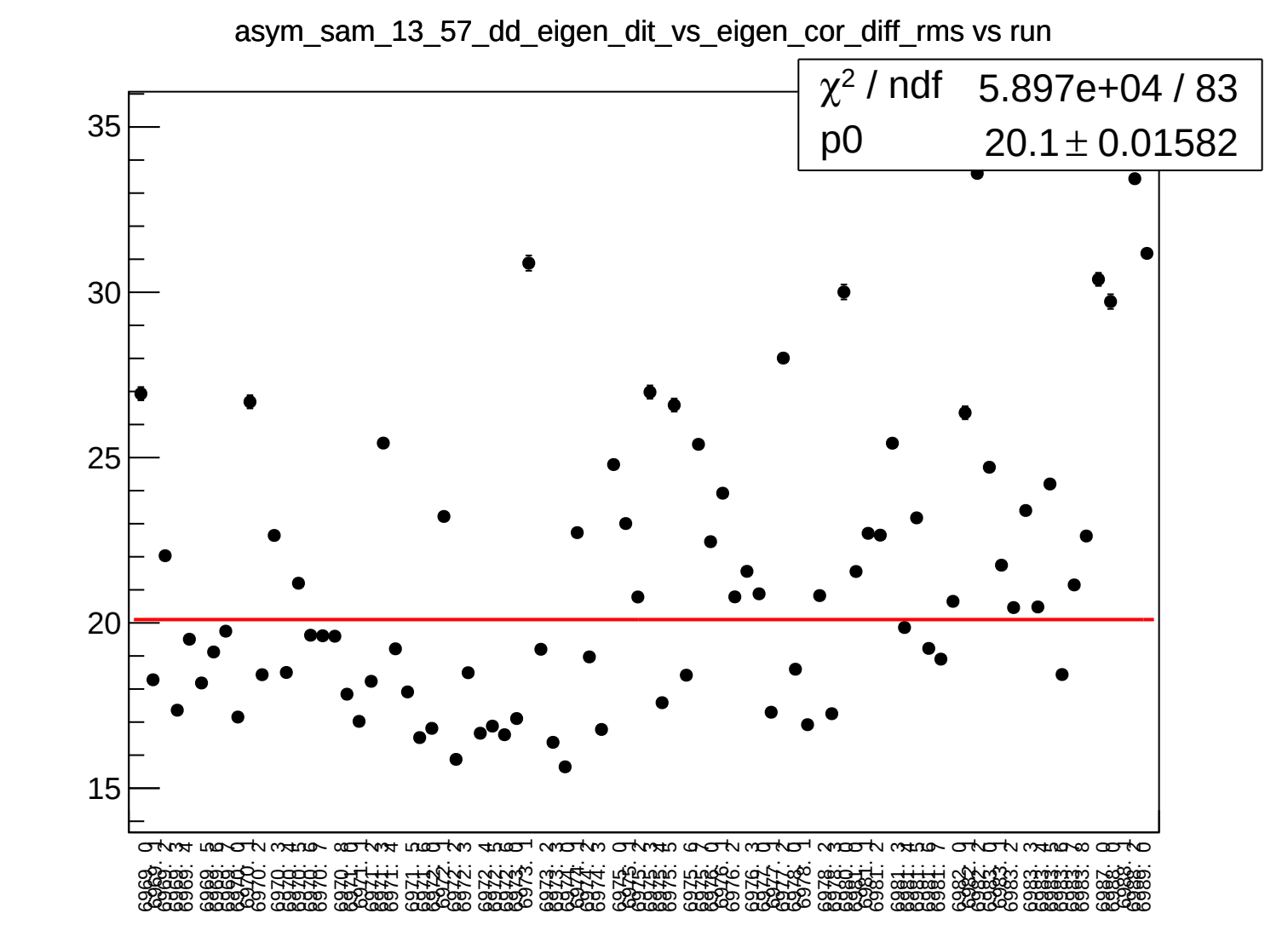

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.5 / 83
p0 0.02685 ± 0.02237
pull
Entries 84
Mean −2588
Std Dev 0
pull1D
Entries 84
Mean −0.00194
Std Dev 1.157

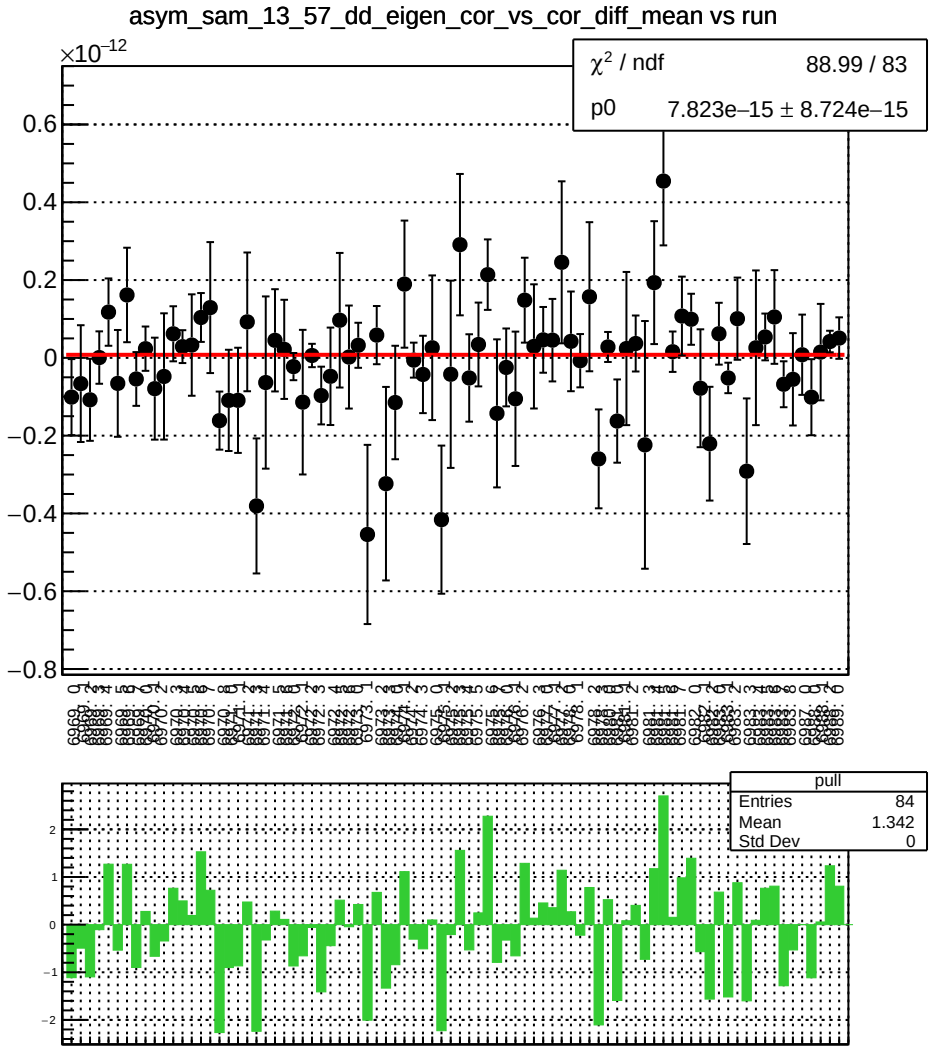

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.897e+04 / 83
p0 20.1 ± 0.01582
35
30
25
20
15

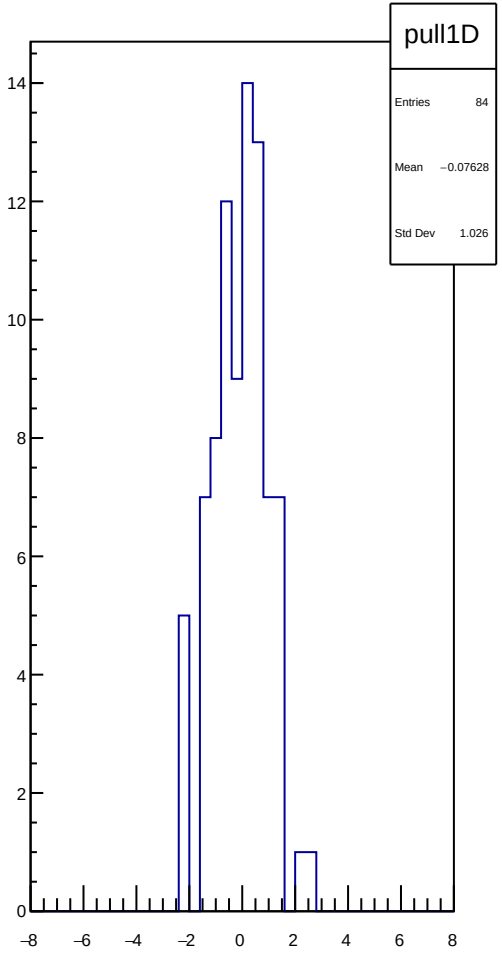
asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

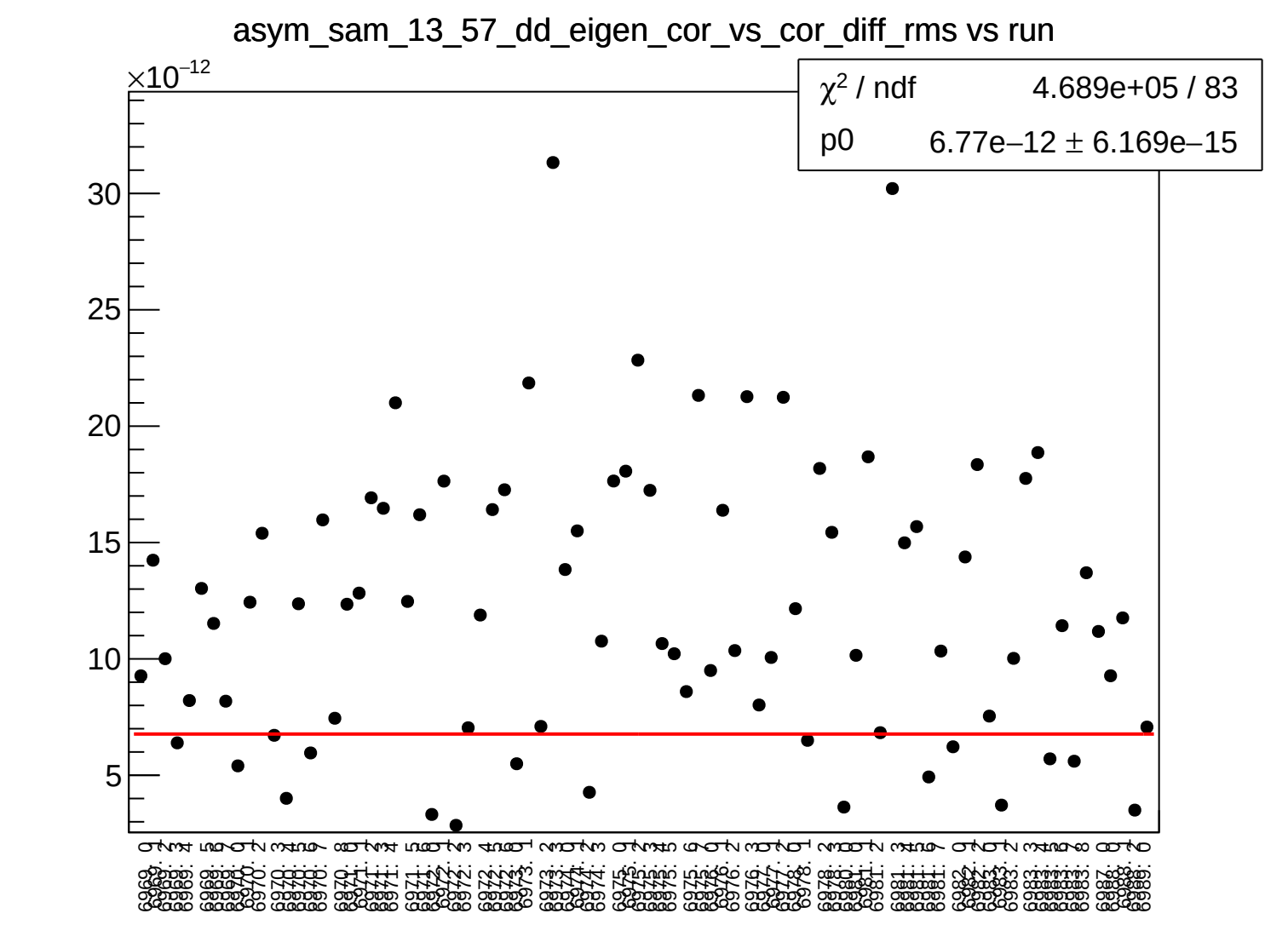


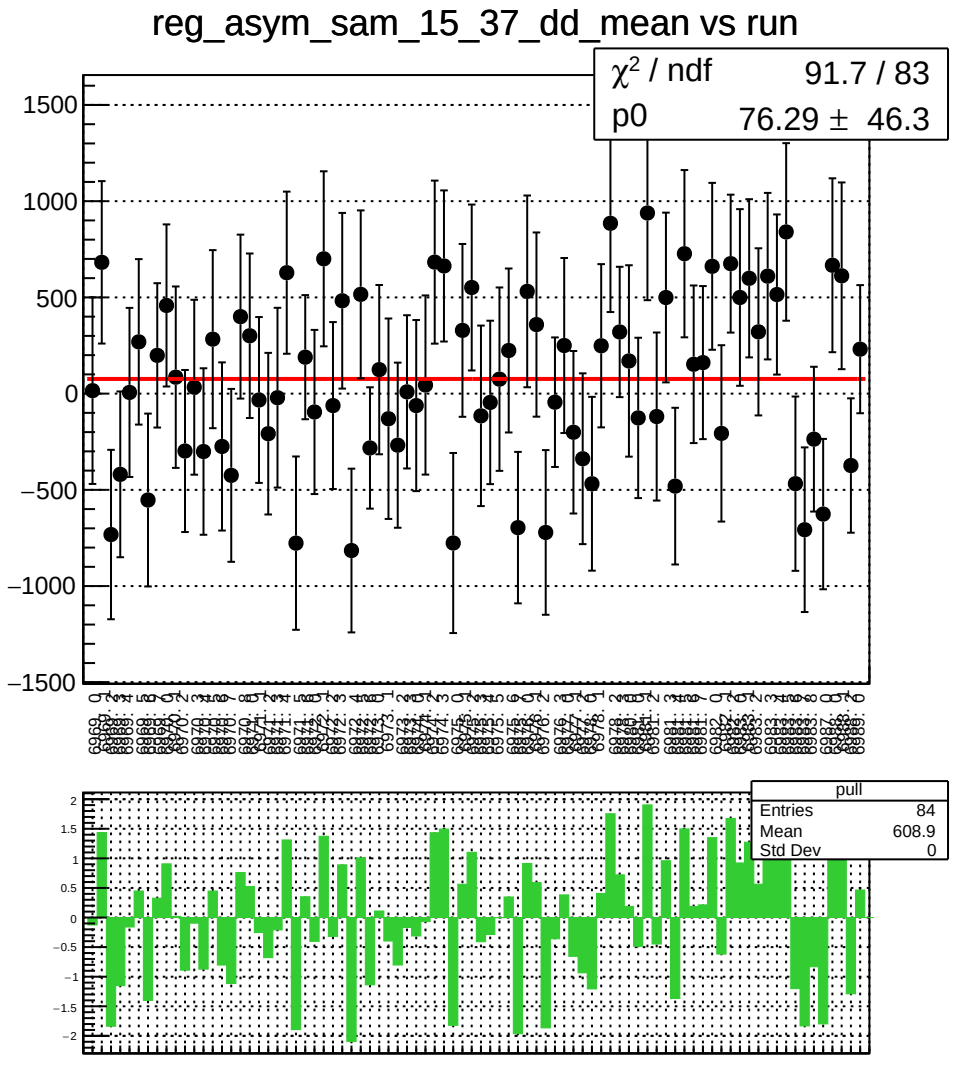


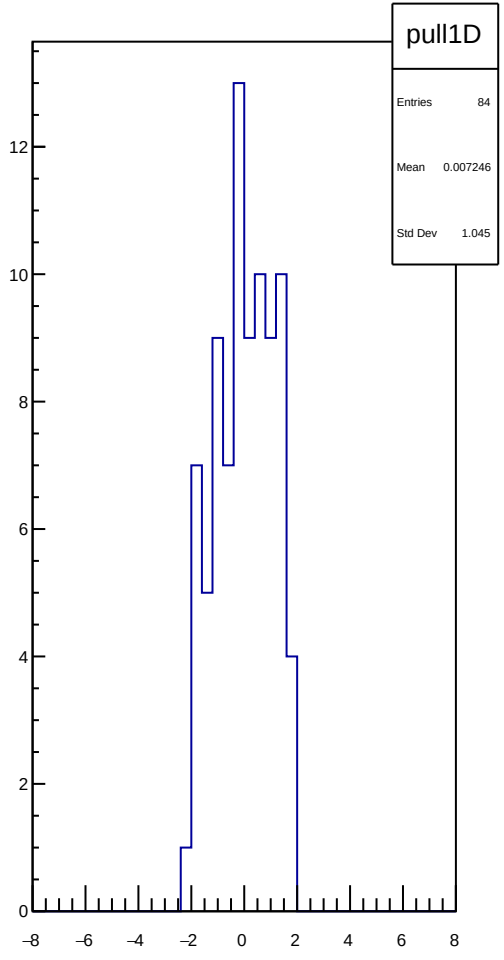

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.897e+04 / 83
p0 20.1 ± 0.01582
35
30
25
20
15

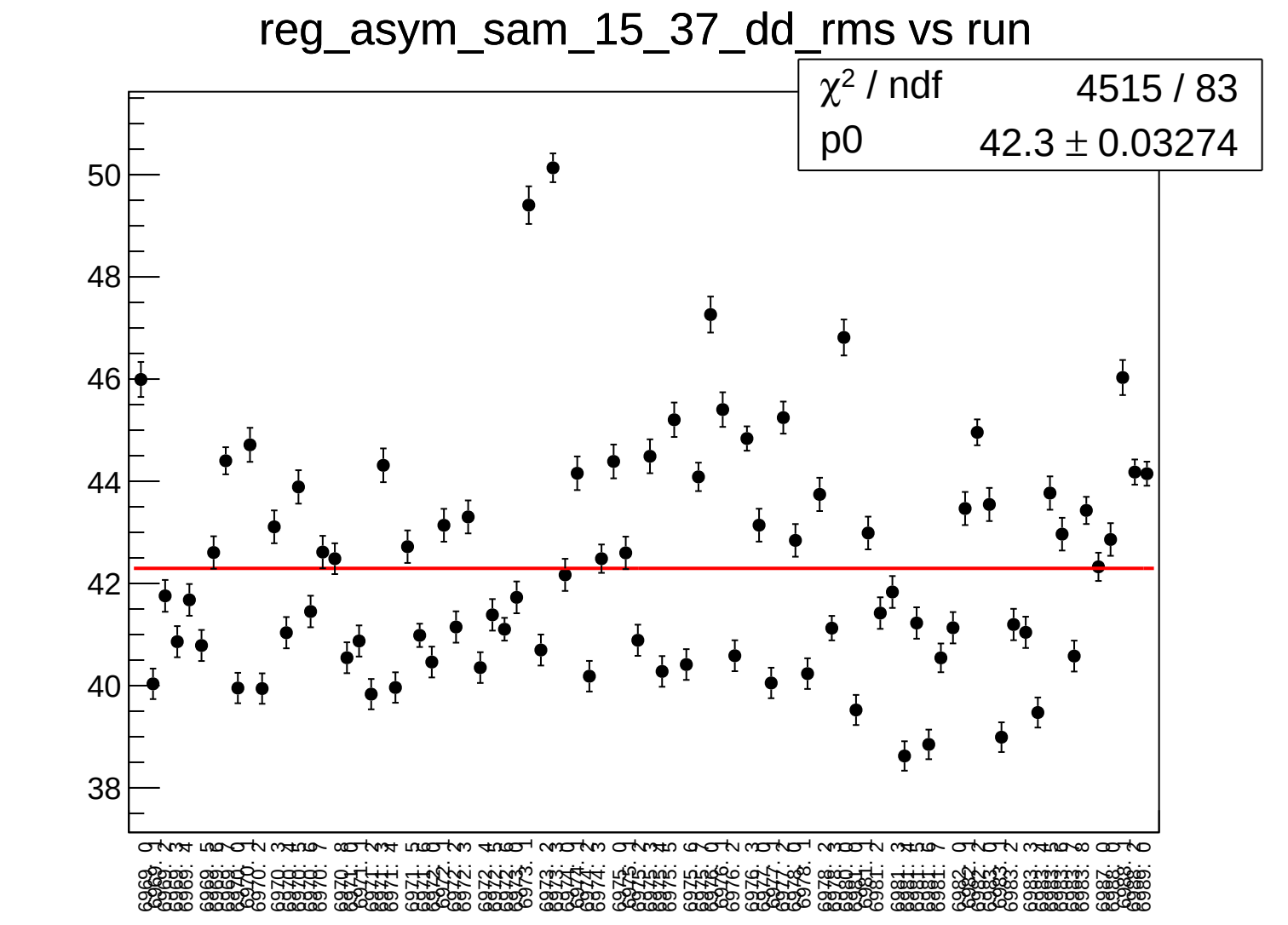

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.99 / 83
p0 7.823e−15 ± 8.724e−15
pull
Entries 84
Mean 1.342
Std Dev 0

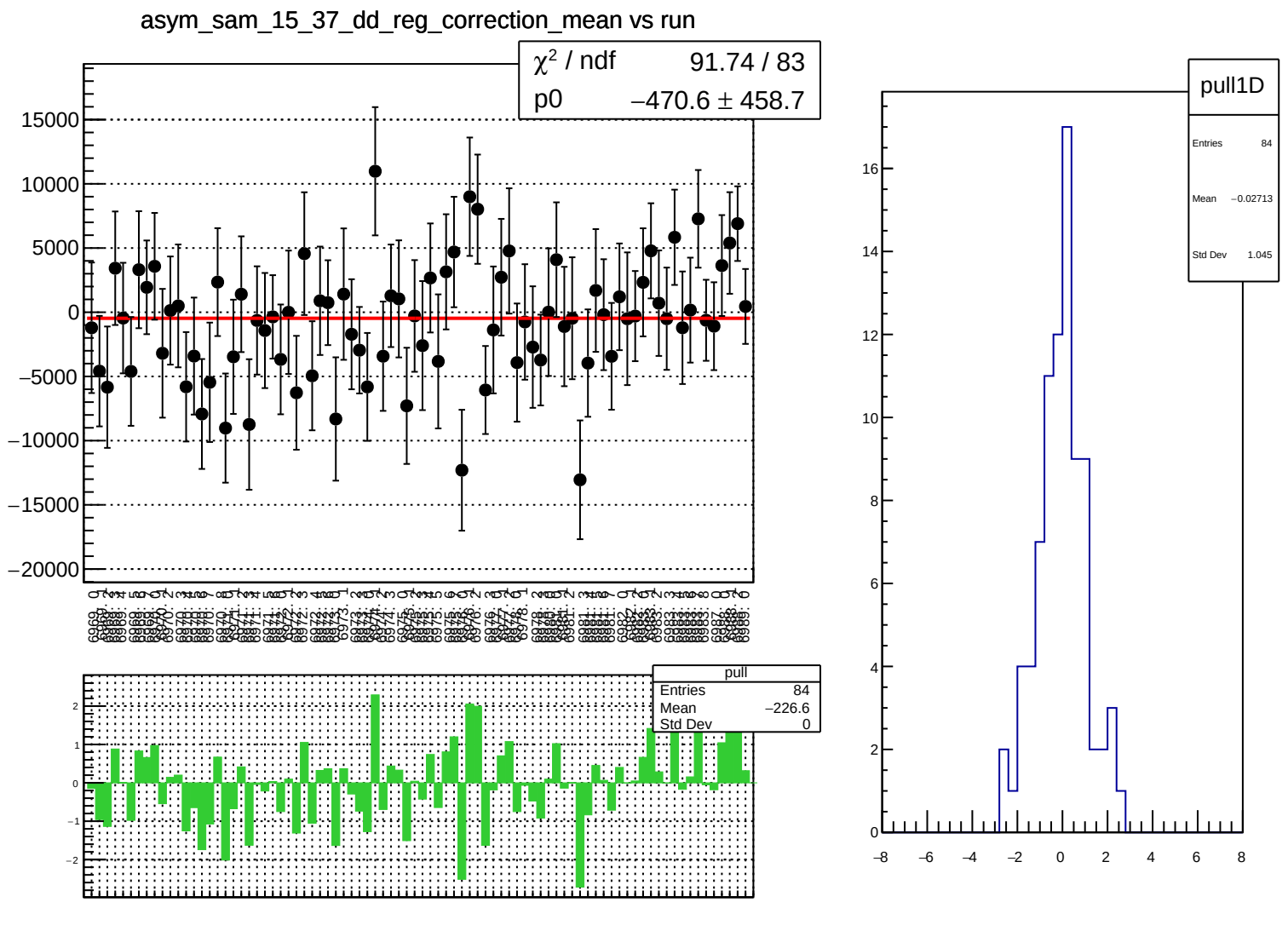

pull1D
Entries 84
Mean −0.07628
Std Dev 1.026

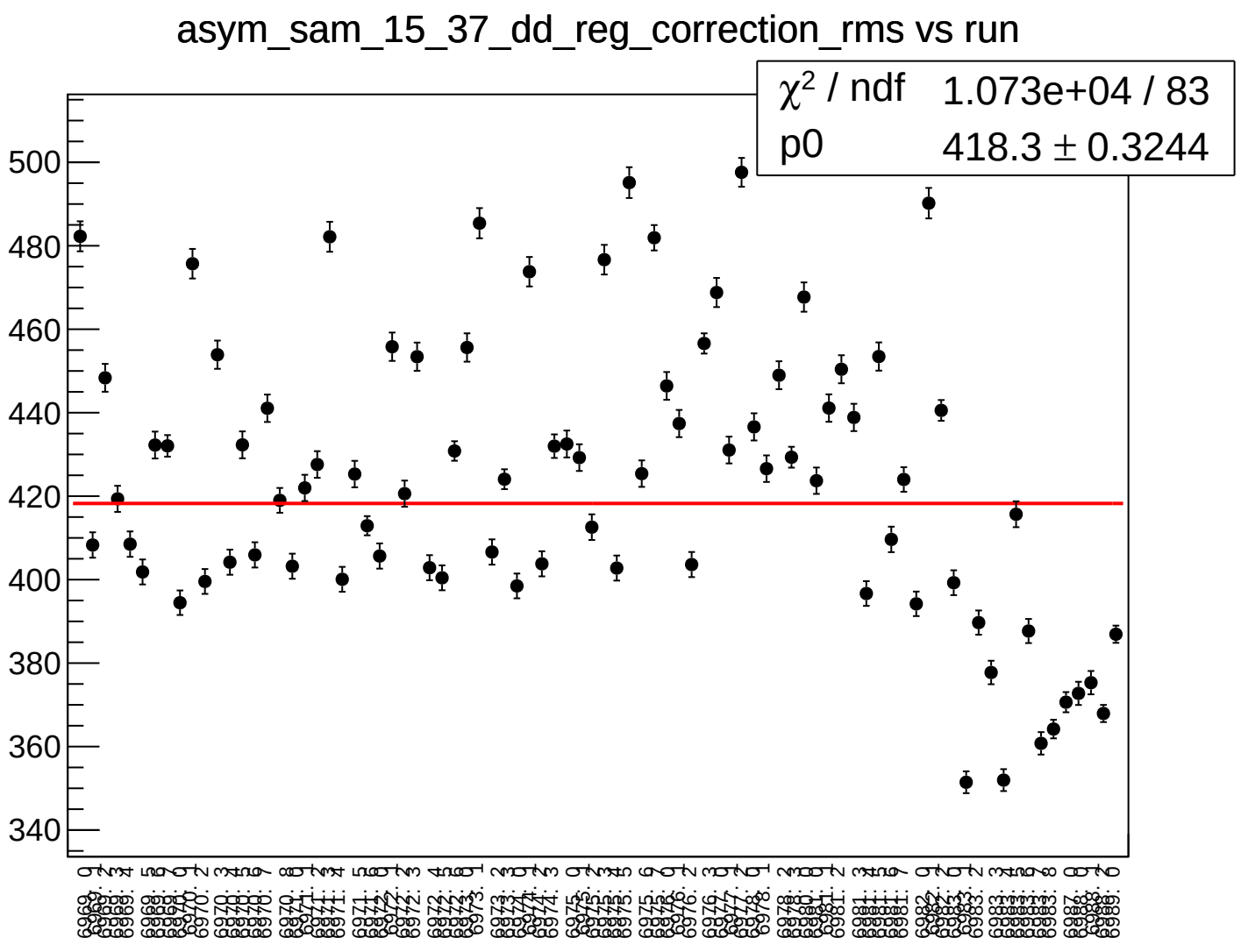

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.689e+05 / 83
p0 6.77e−12 ± 6.169e−15
30
25
20
15
10
5

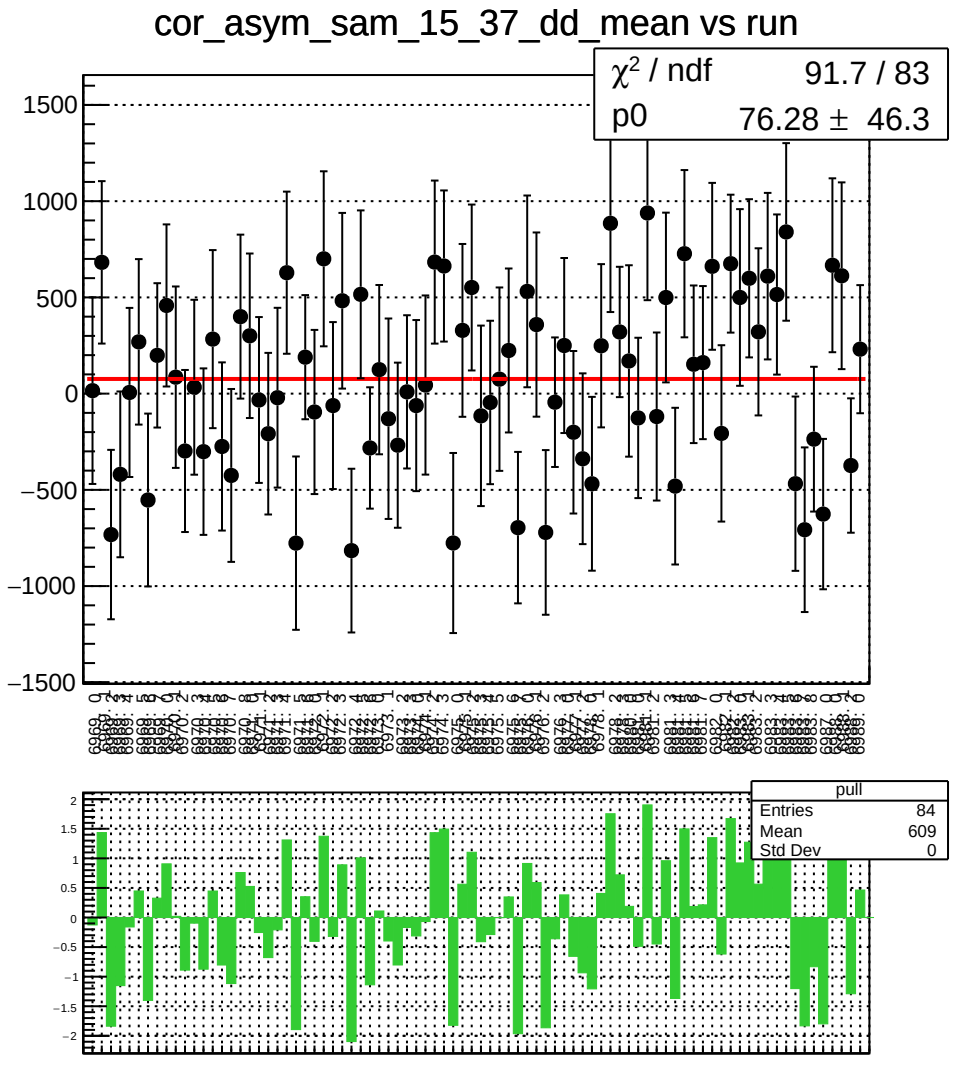

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 91.7 / 83
p0 76.29 ± 46.3
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean 608.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

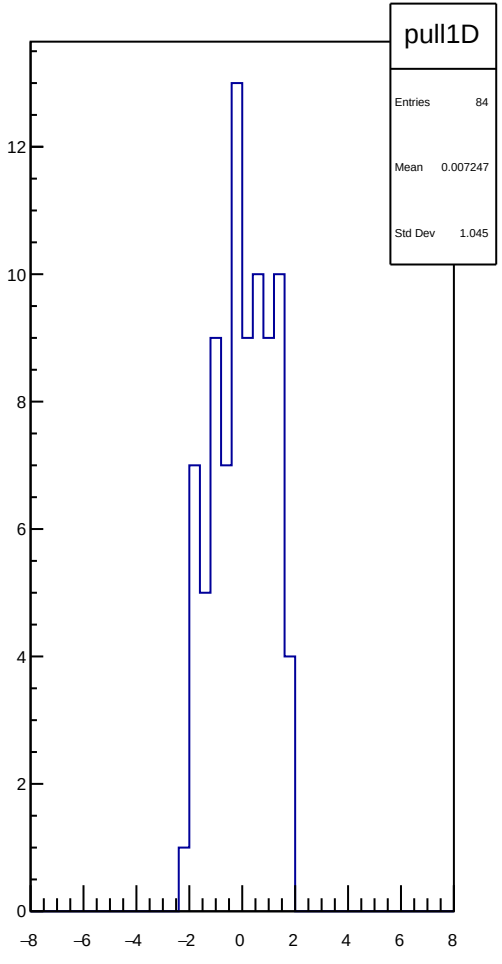

pull1D
Entries 84
Mean 0.007246
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

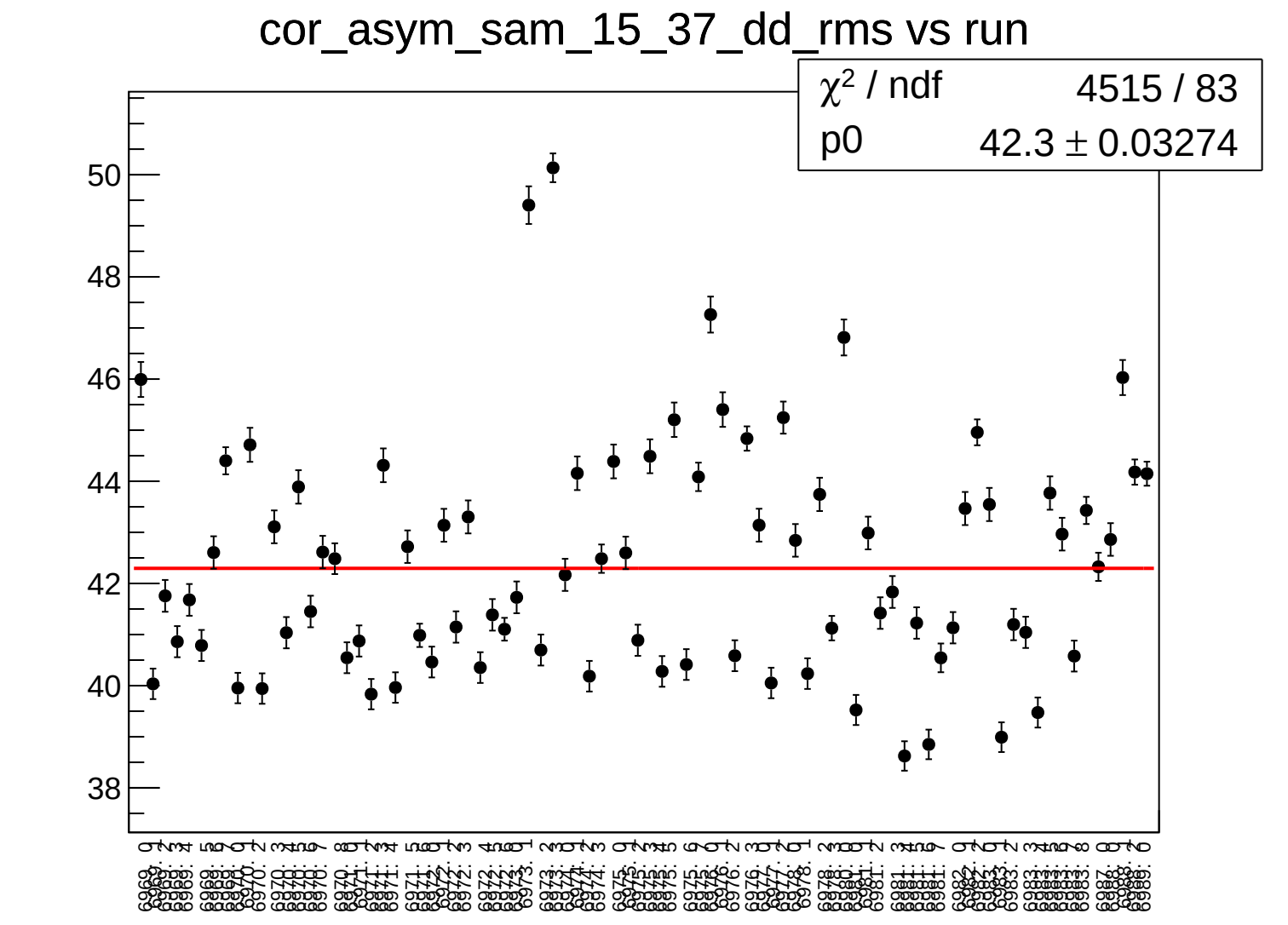

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 4515 / 83
p0 42.3 ± 0.03274
50
48
46
44
42
40
38

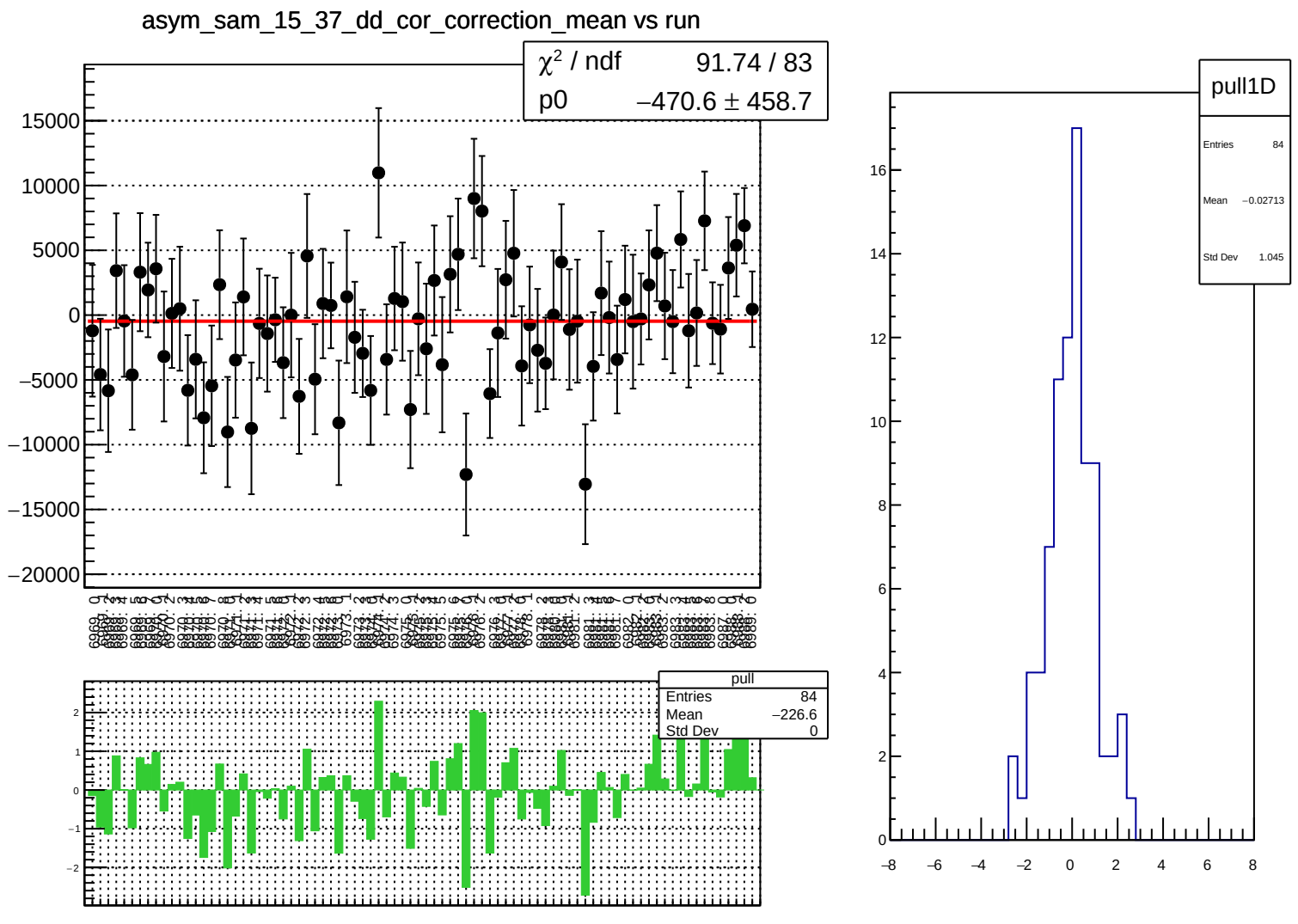

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 91.74 / 83
p0 −470.6 ± 458.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −226.6
Std Dev 0
pull1D
Entries 84
Mean −0.02713
Std Dev 1.045

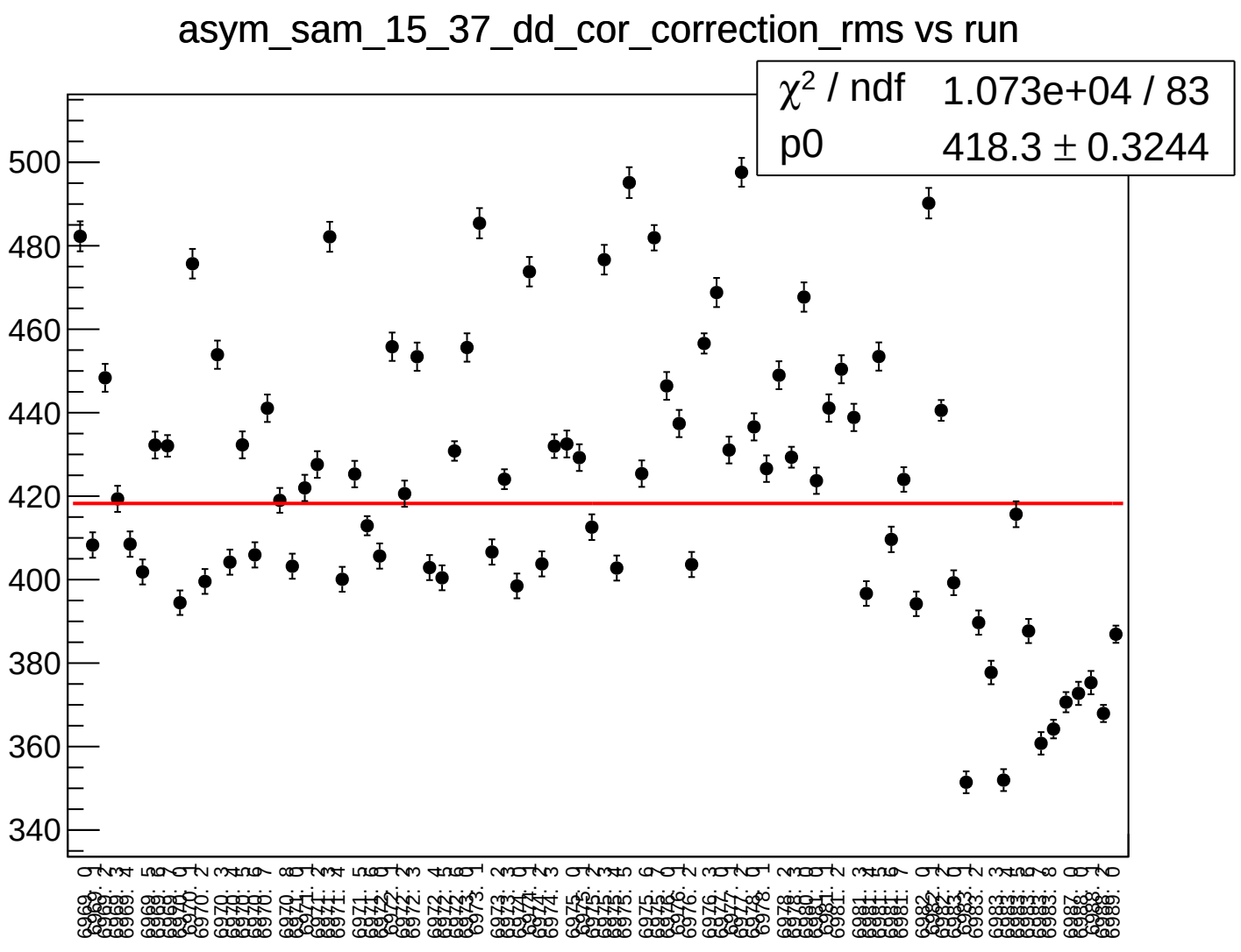

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.073e+04 / 83
p0 418.3 ± 0.3244
500
480
460
440
420
400
380
360
340

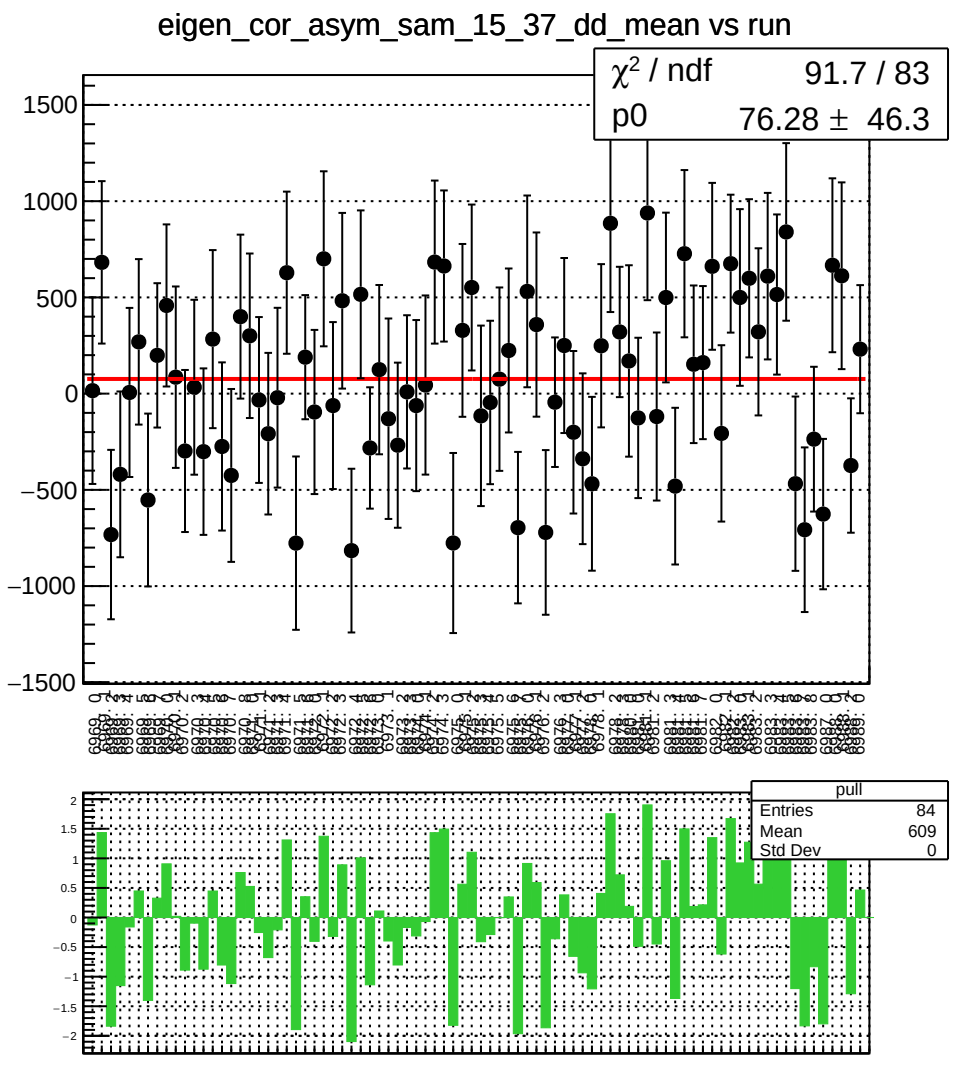

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 91.7 / 83
p0 76.28 ± 46.3
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean 609
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

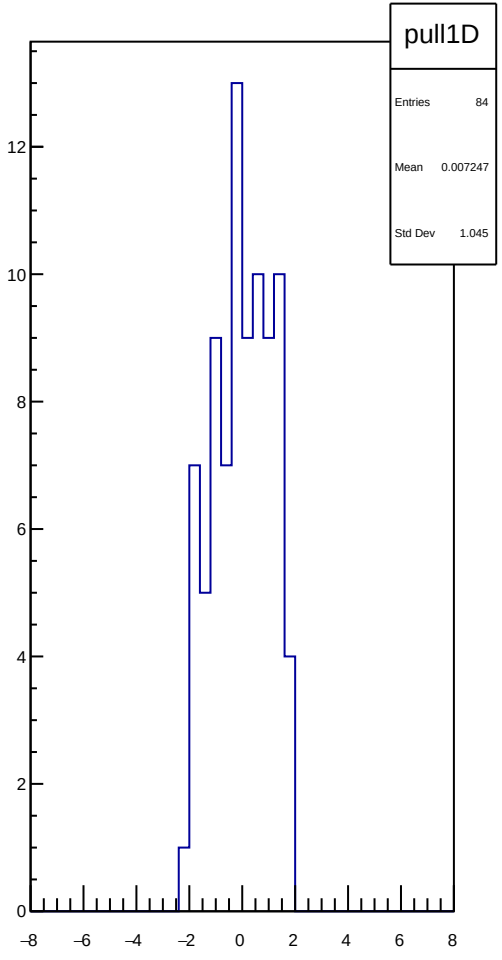

pull1D
Entries 84
Mean 0.007247
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

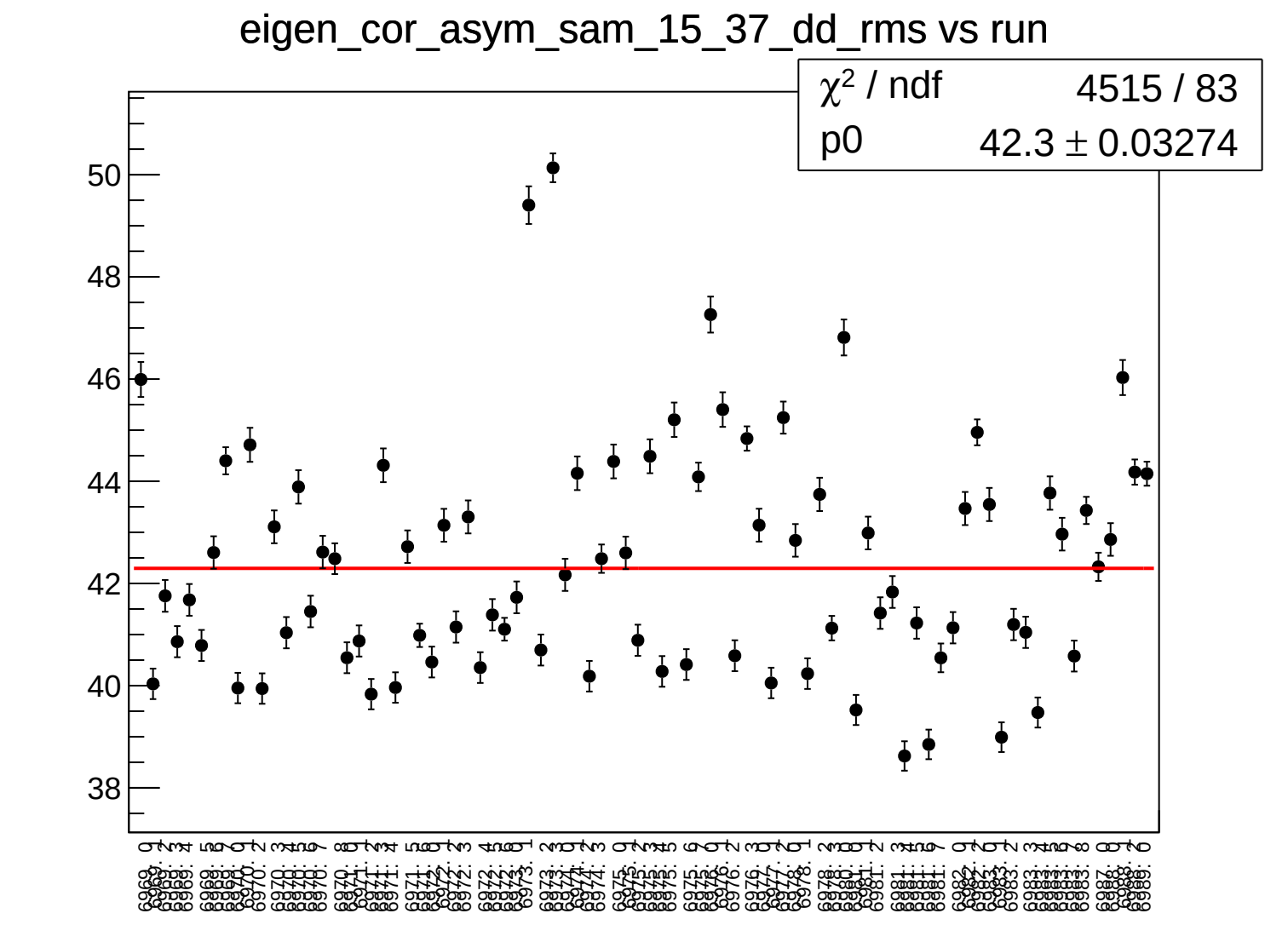

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 4515 / 83
p0 42.3 ± 0.03274
50
48
46
44
42
40
38

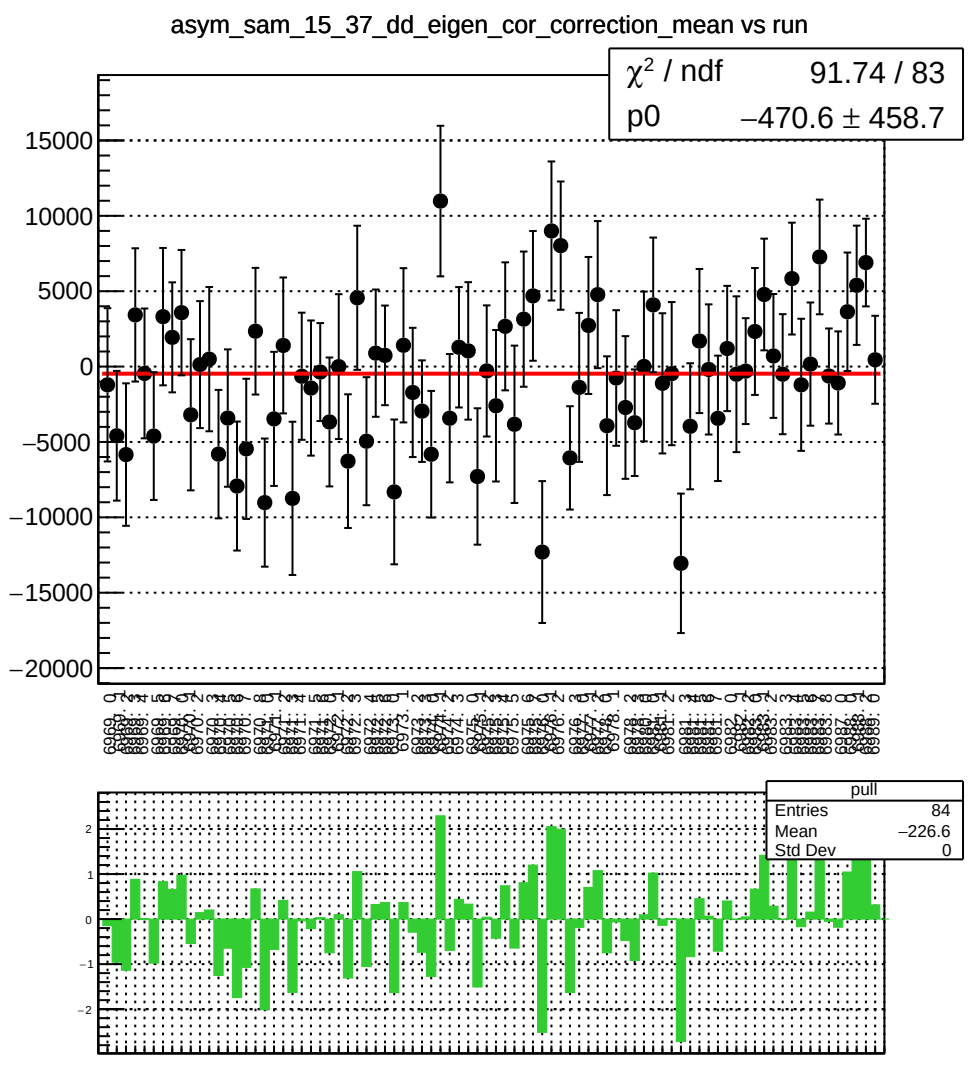

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 91.74 / 83
p0 −470.6 ± 458.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −226.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.02713
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

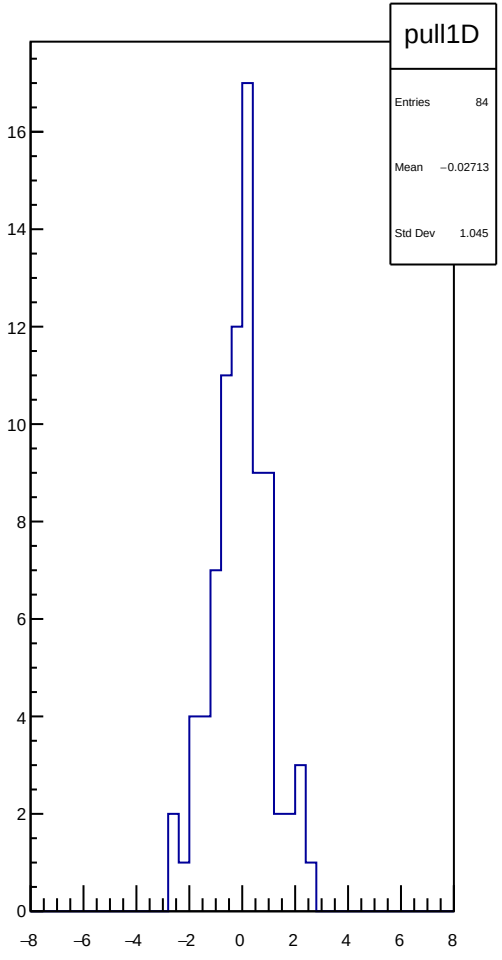

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.073e+04 / 83
p0 418.3 ± 0.3244
500
480
460
440
420
400
380
360
340

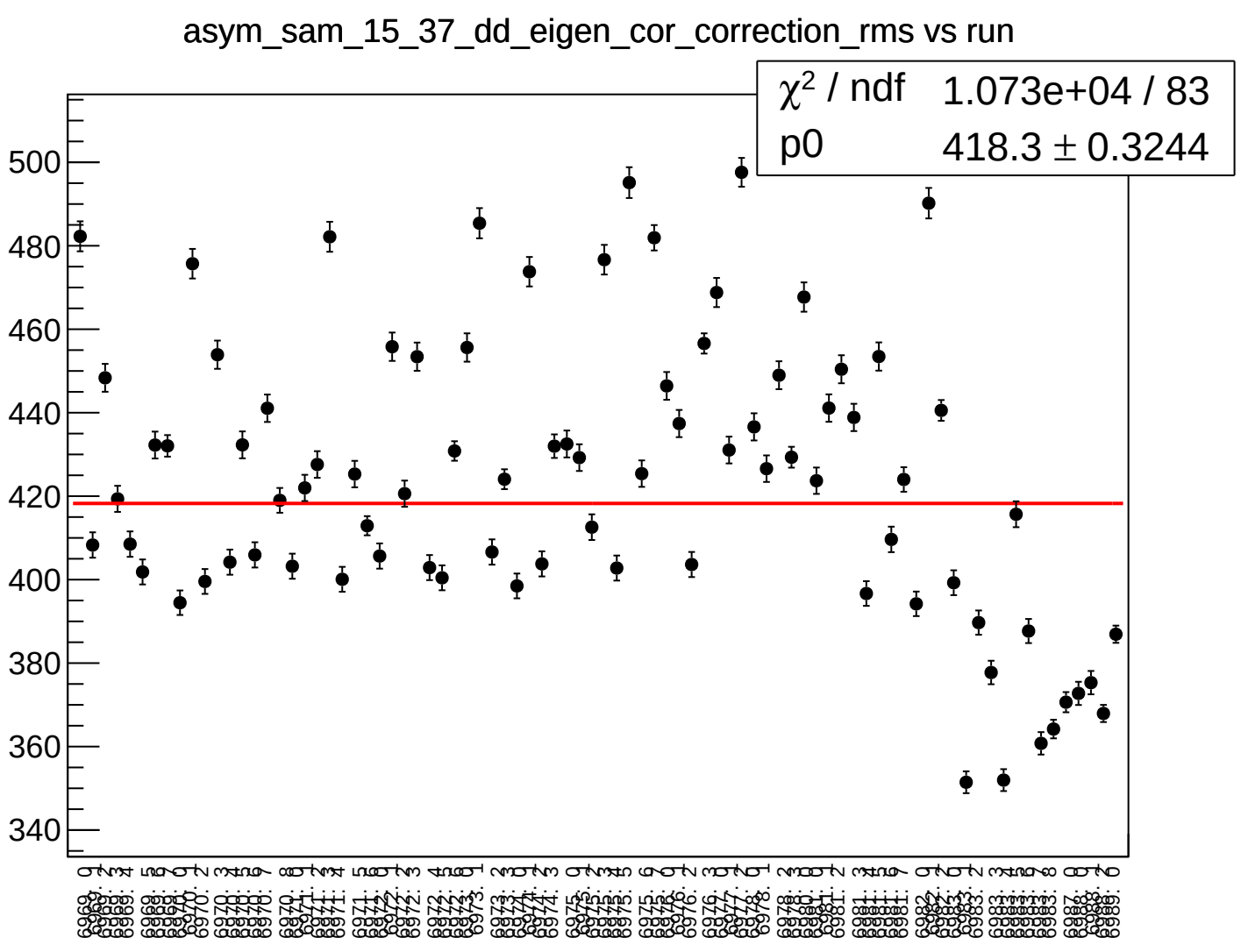

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 91.7 / 83
p0 76.28 ± 46.3
pull
Entries 84
Mean 609
Std Dev 0

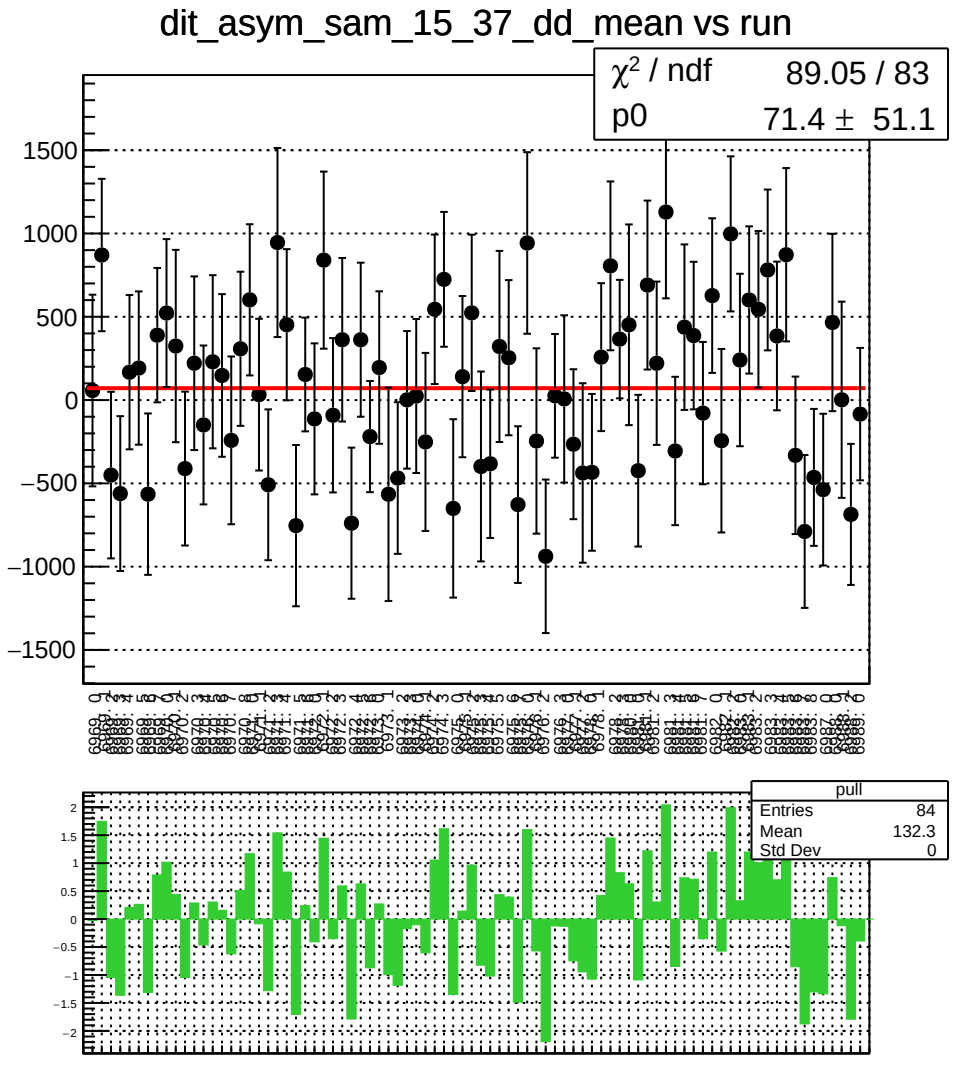

pull1D
Entries 84
Mean 0.007247
Std Dev 1.045

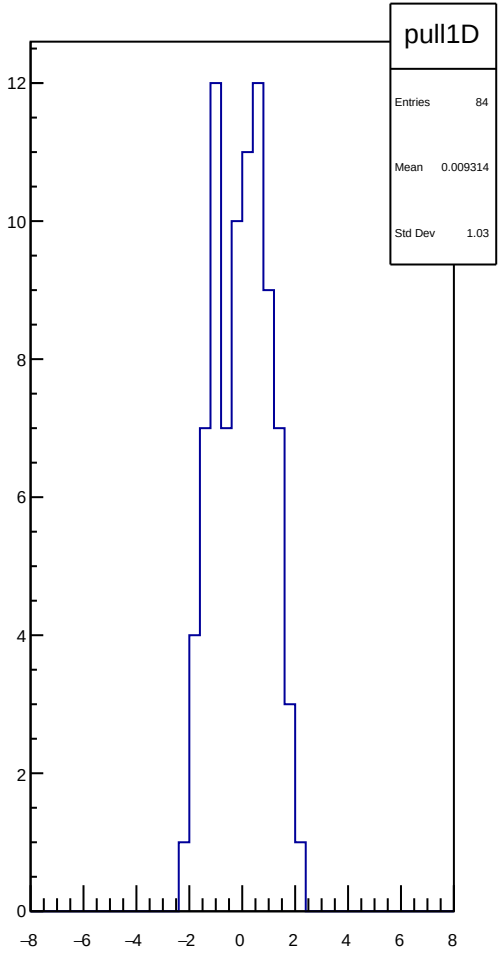

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 4515 / 83
p0 42.3 ± 0.03274
50
48
46
44
42
40
38

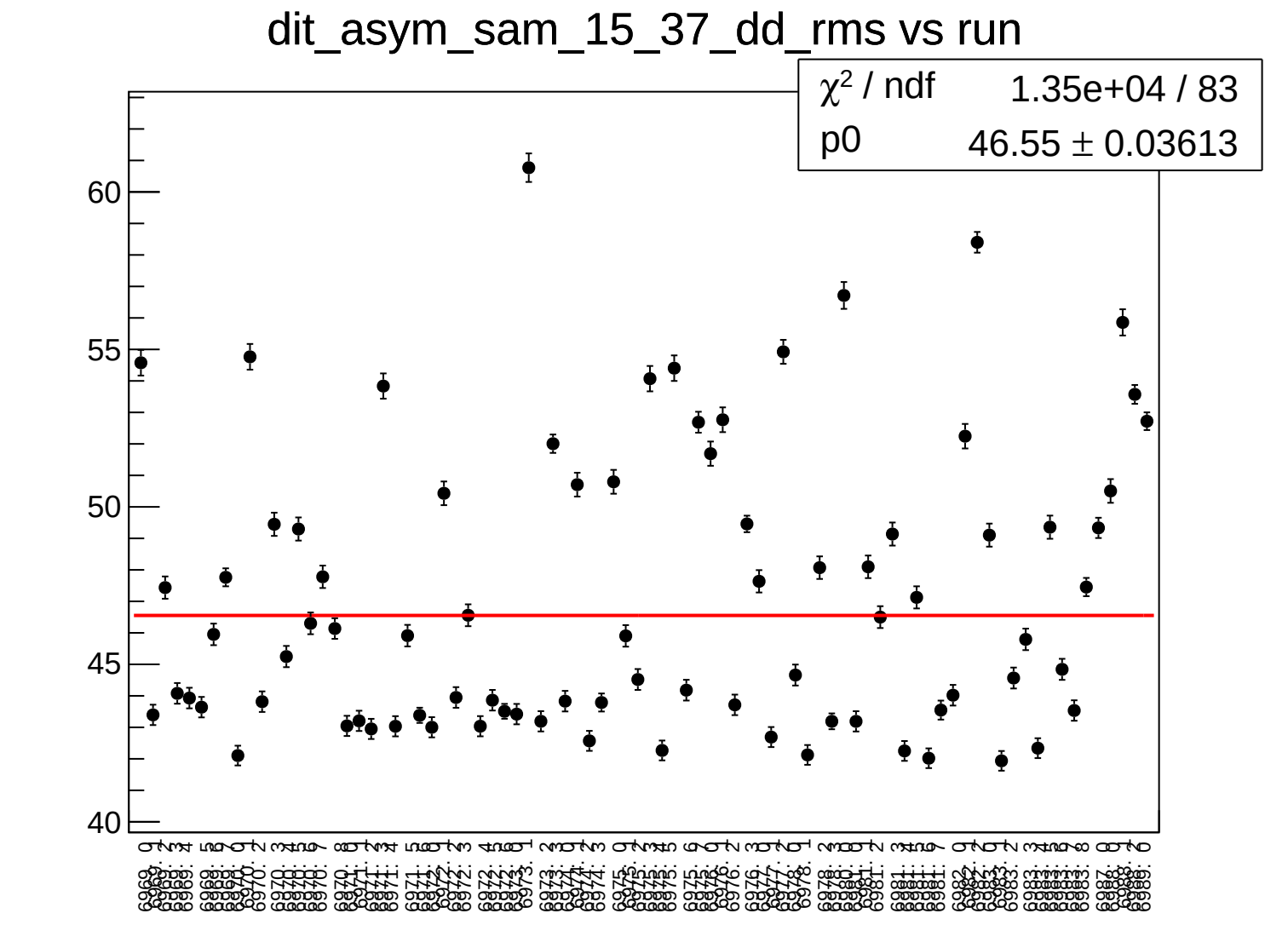

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.74 / 83
p0 −470.6 ± 458.7
pull
Entries 84
Mean −226.6
Std Dev 0

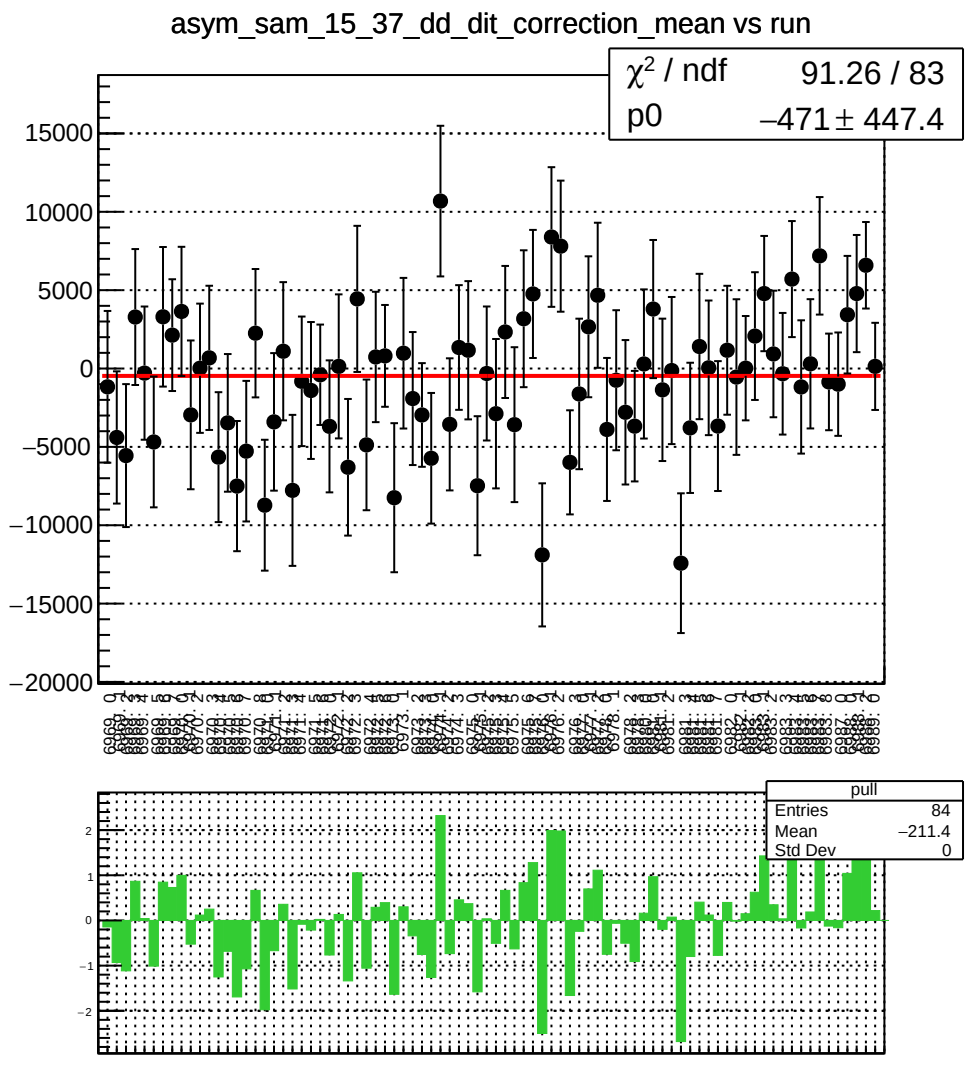

pull1D
Entries 84
Mean −0.02713
Std Dev 1.045

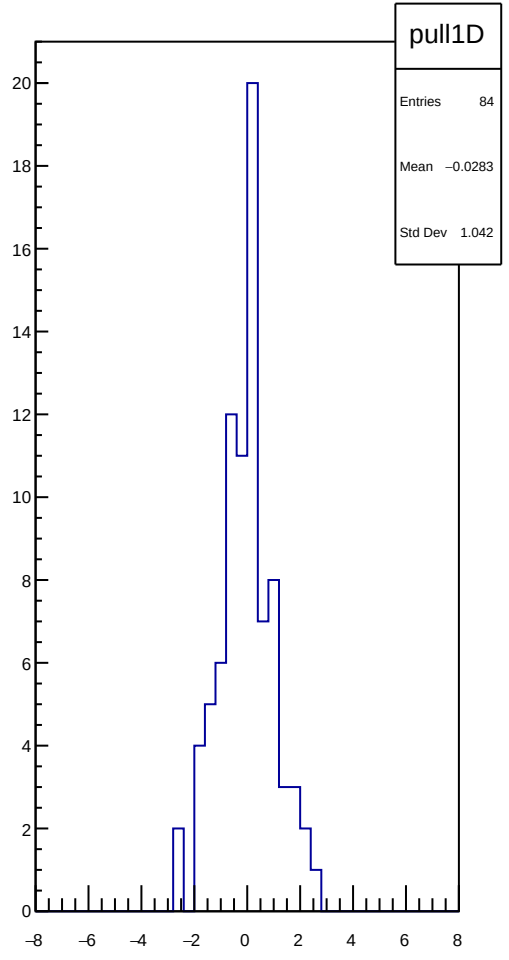

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.073e+04 / 83
p0 418.3 ± 0.3244
500
480
460
440
420
400
380
360
340

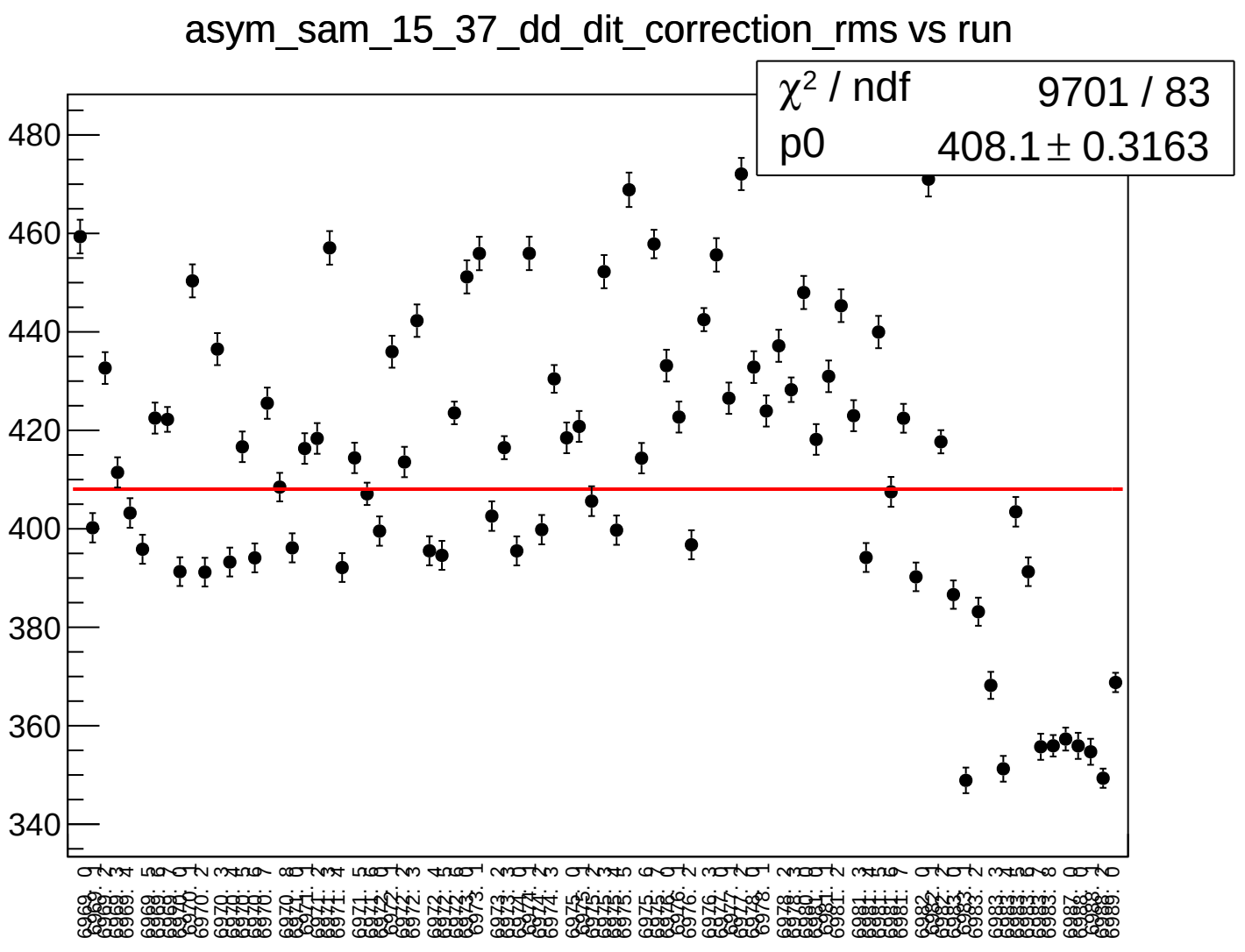

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.05 / 83
p0 71.4 ± 51.1
pull
Entries 84
Mean 132.3
Std Dev 0

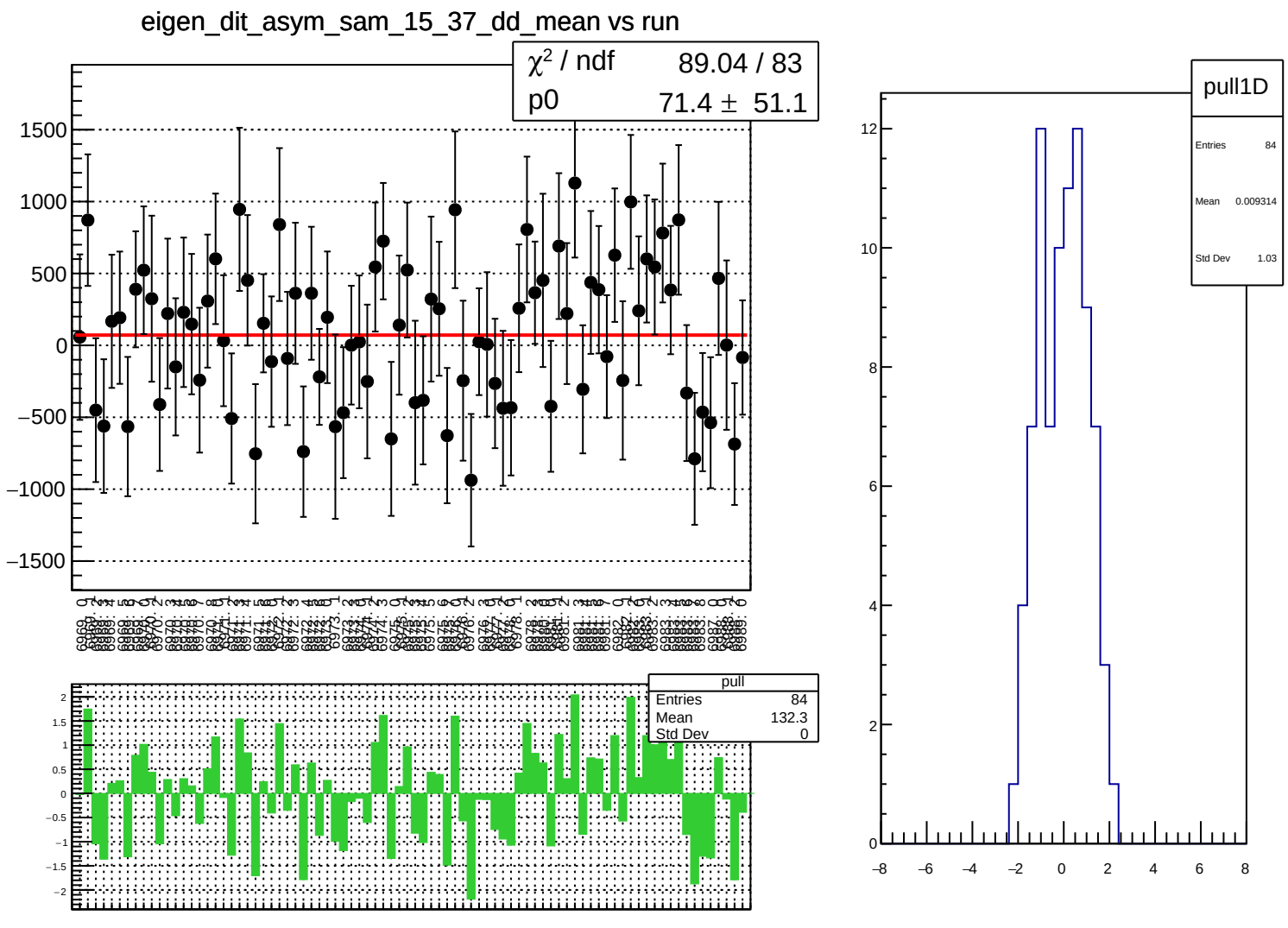

pull1D
Entries 84
Mean 0.009314
Std Dev 1.03

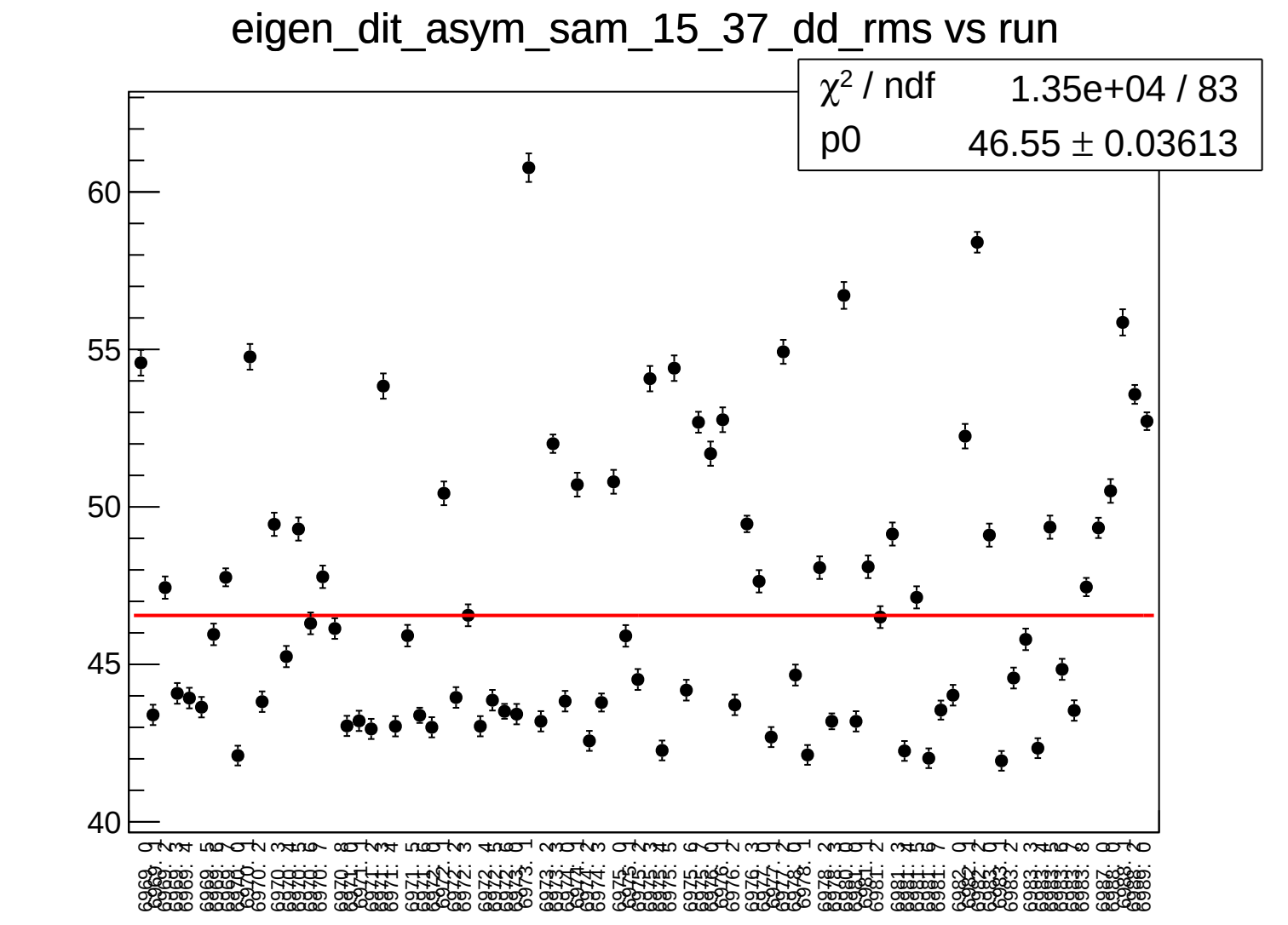

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.35e+04 / 83
p0 46.55 ± 0.03613
60
55
50
45
40

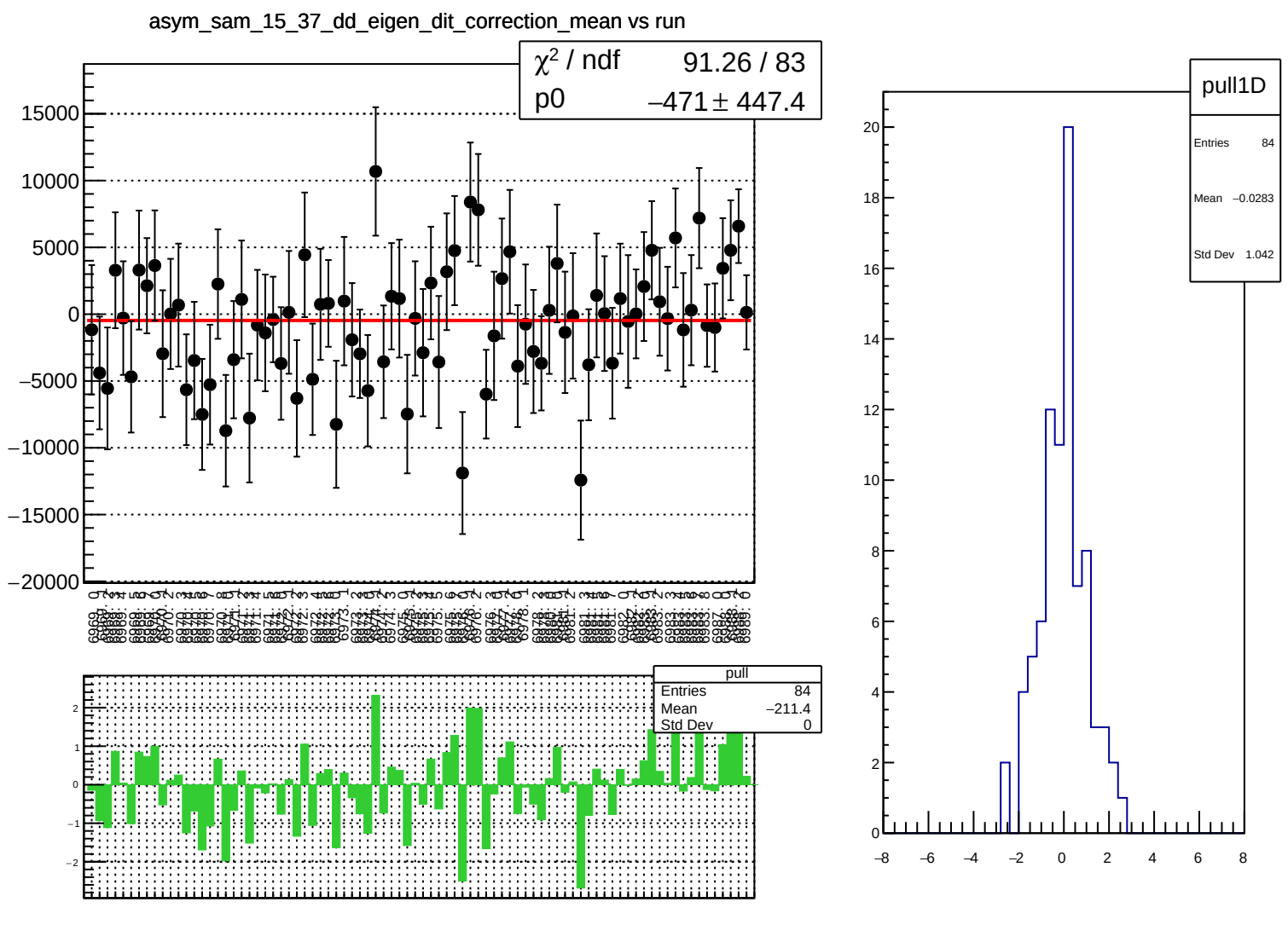

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 91.26 / 83
p0 −471 ± 447.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −211.4
Std Dev 0
2
1
0
−1
−2

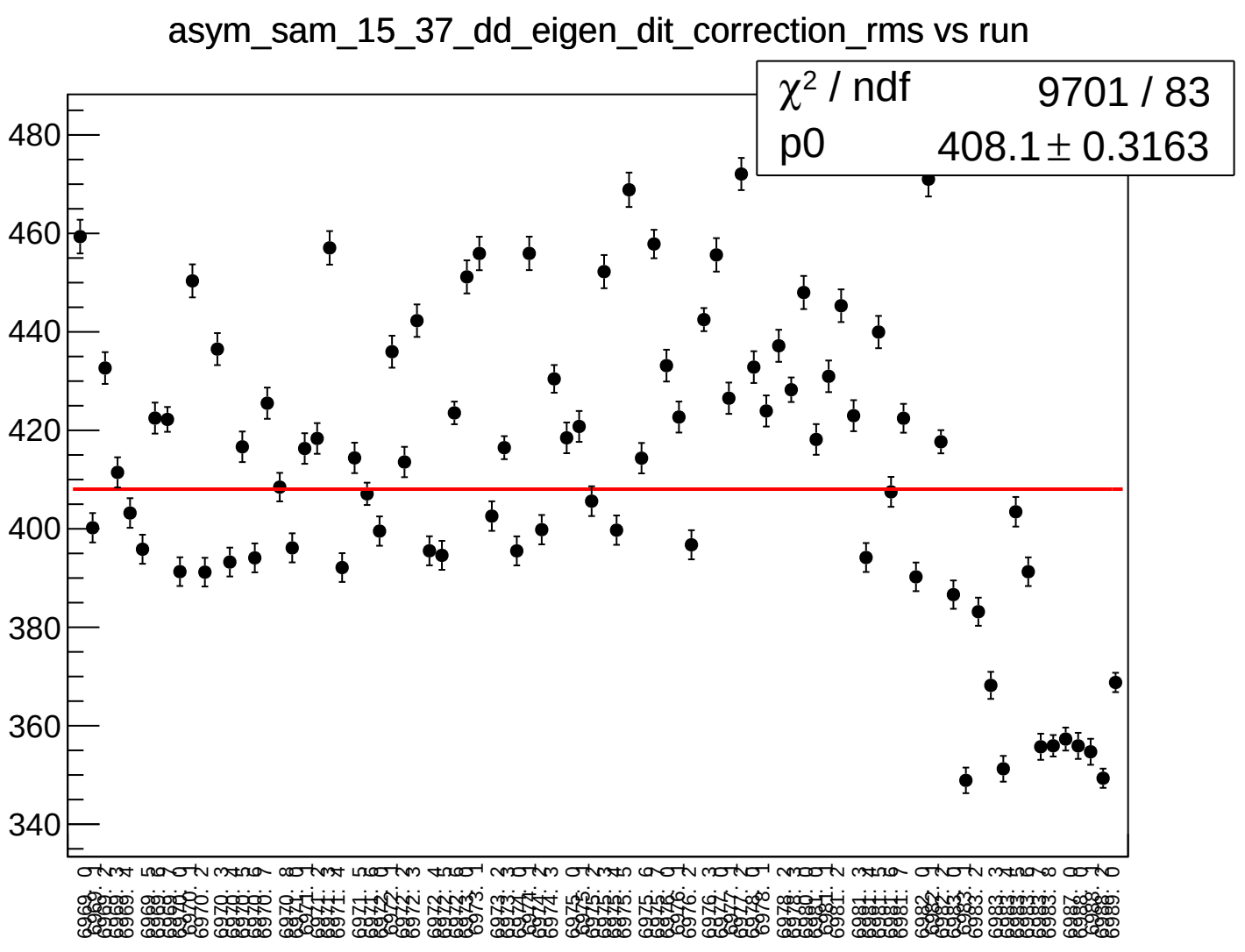

pull1D
Entries 84
Mean −0.0283
Std Dev 1.042
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

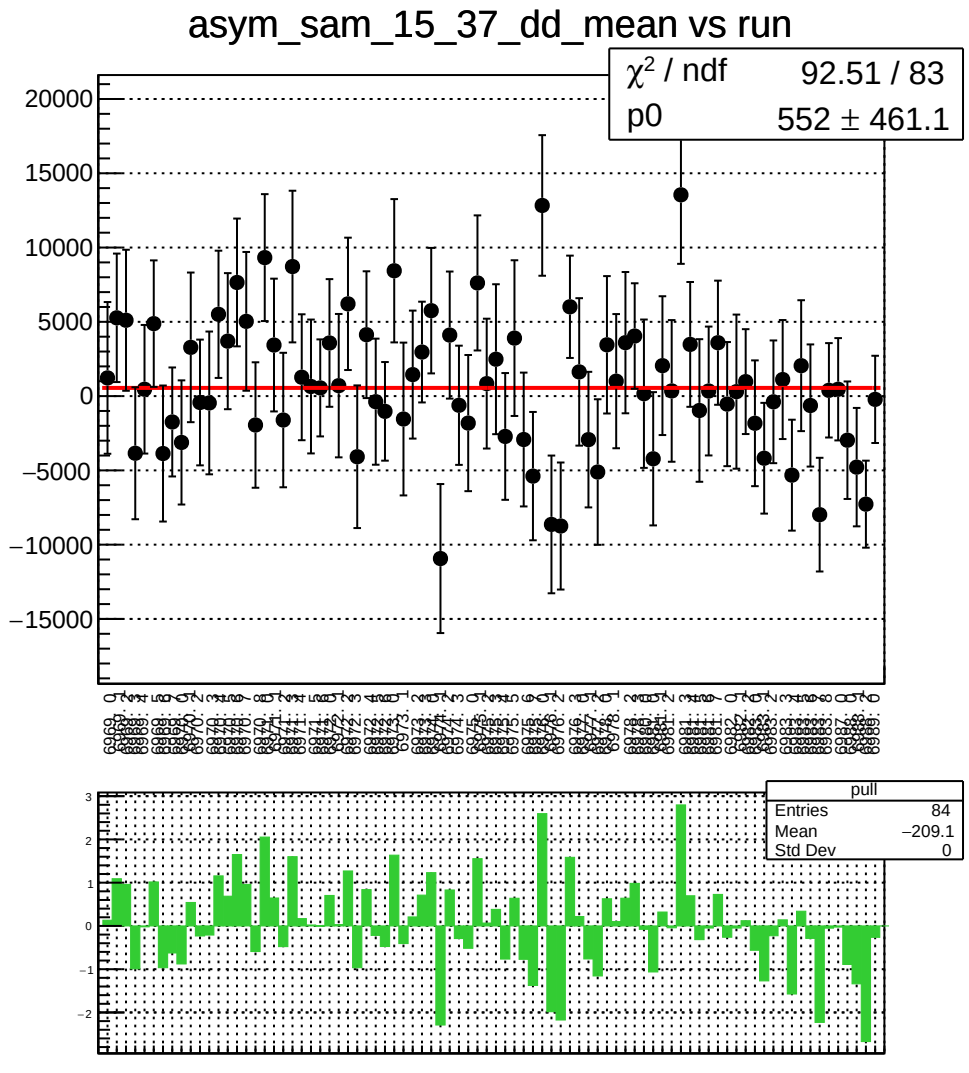

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 9701 / 83
p0 408.1 ± 0.3163
480
460
440
420
400
380
360
340

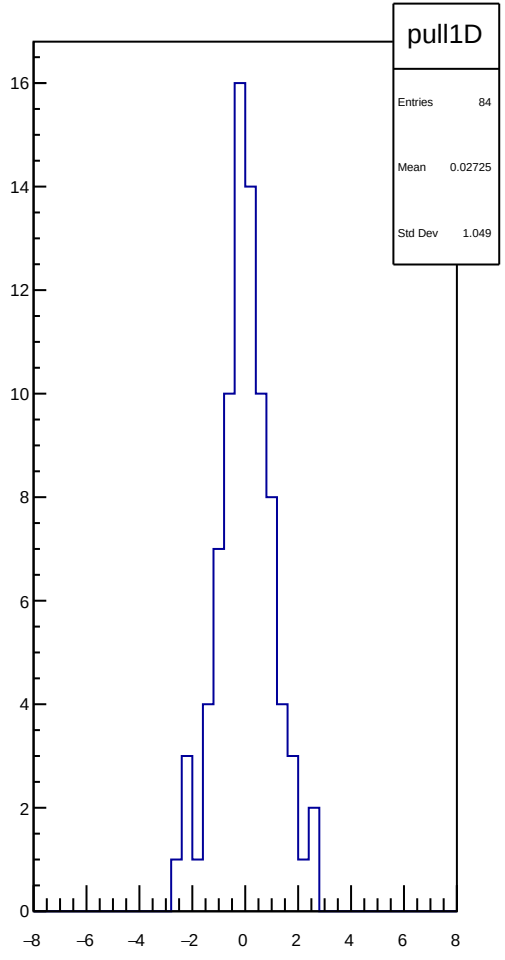

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.04 / 83
p0 71.4 ± 51.1
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean 132.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.009314
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

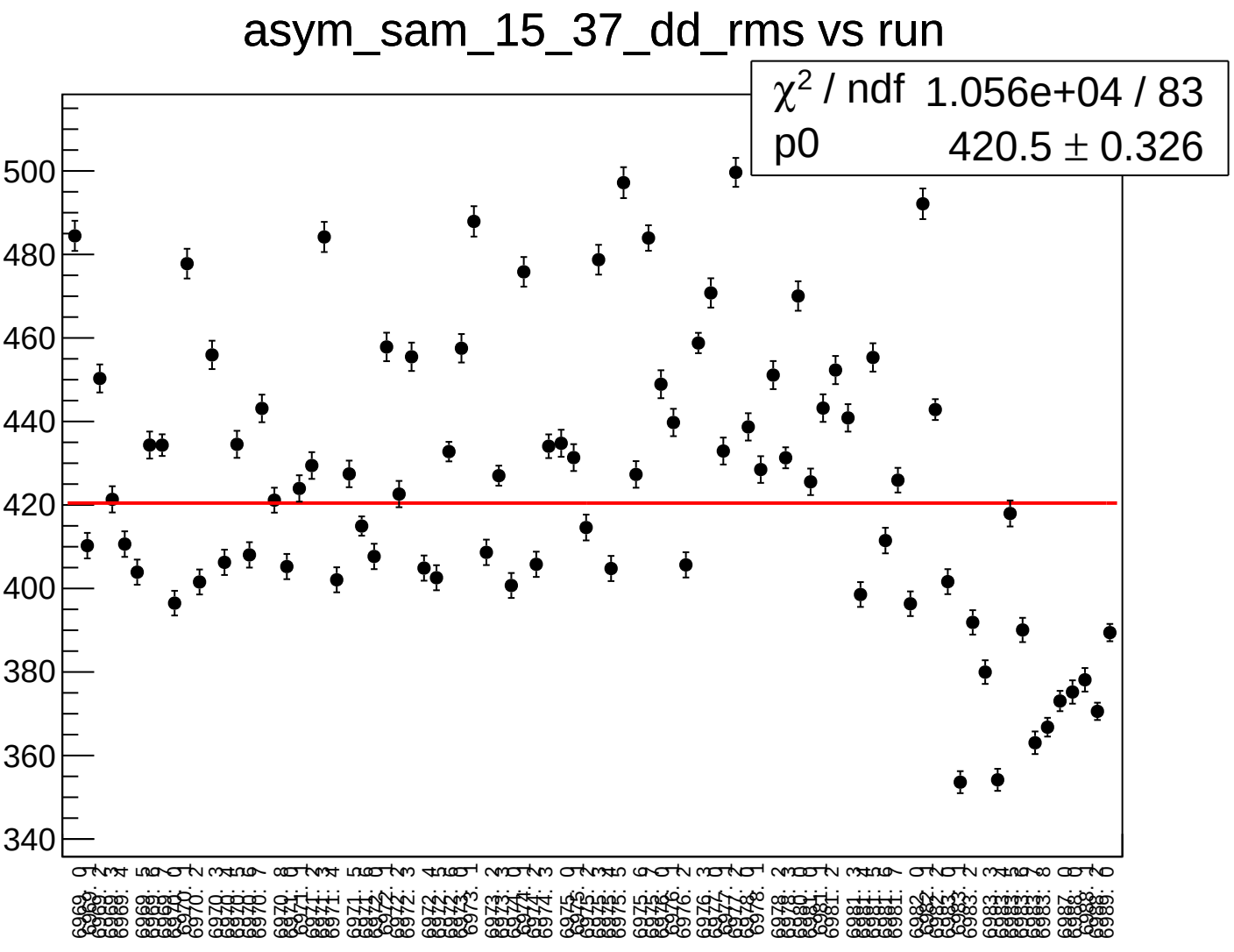

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.35e+04 / 83
p0 46.55 ± 0.03613
60
55
50
45
40

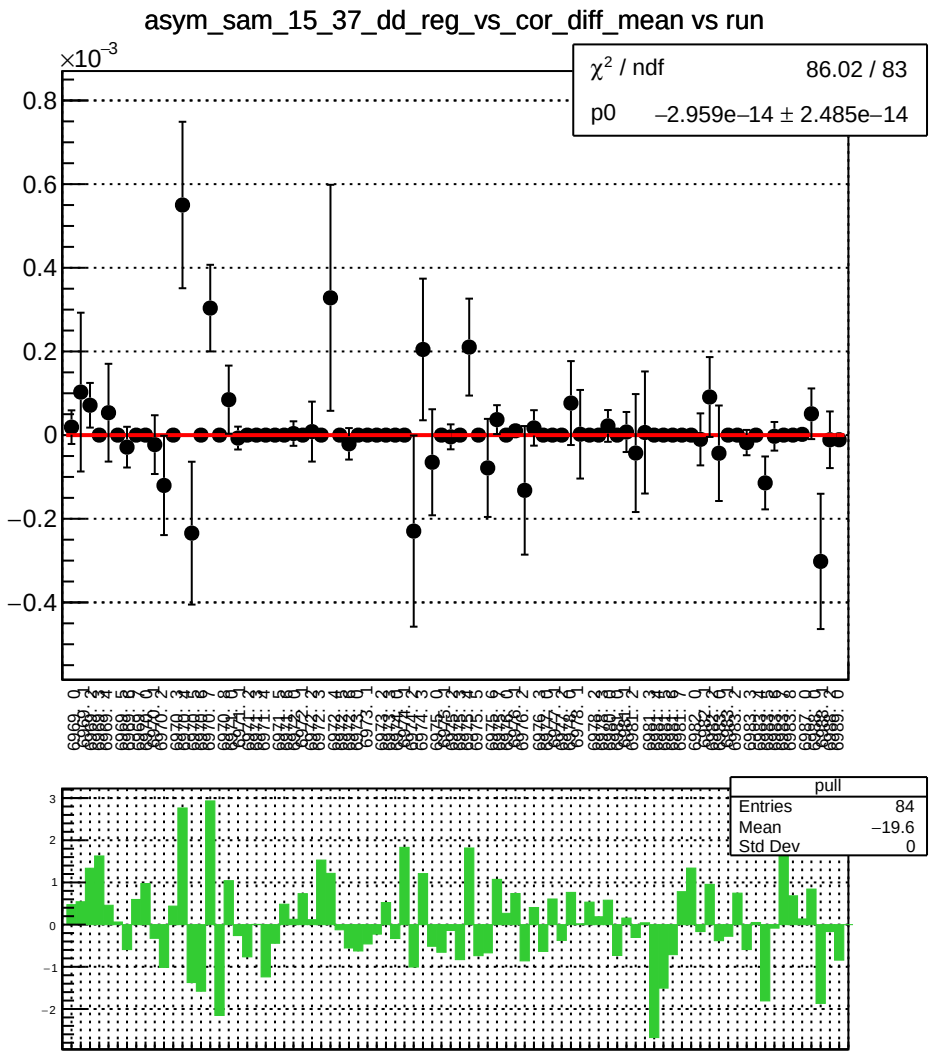

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.26 / 83
p0 −471 ± 447.4
pull
Entries 84
Mean −211.4
Std Dev 0
pull1D
Entries 84
Mean −0.0283
Std Dev 1.042

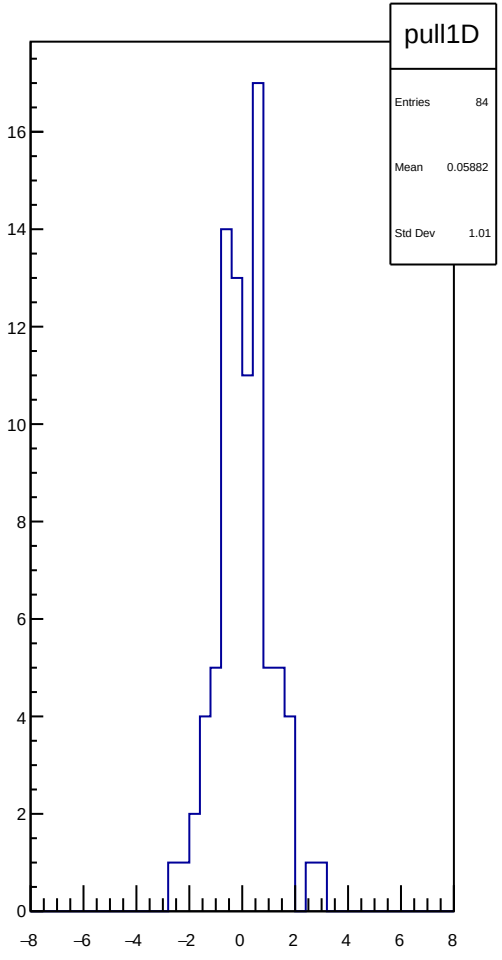

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 9701 / 83
p0 408.1 ± 0.3163
480
460
440
420
400
380
360
340

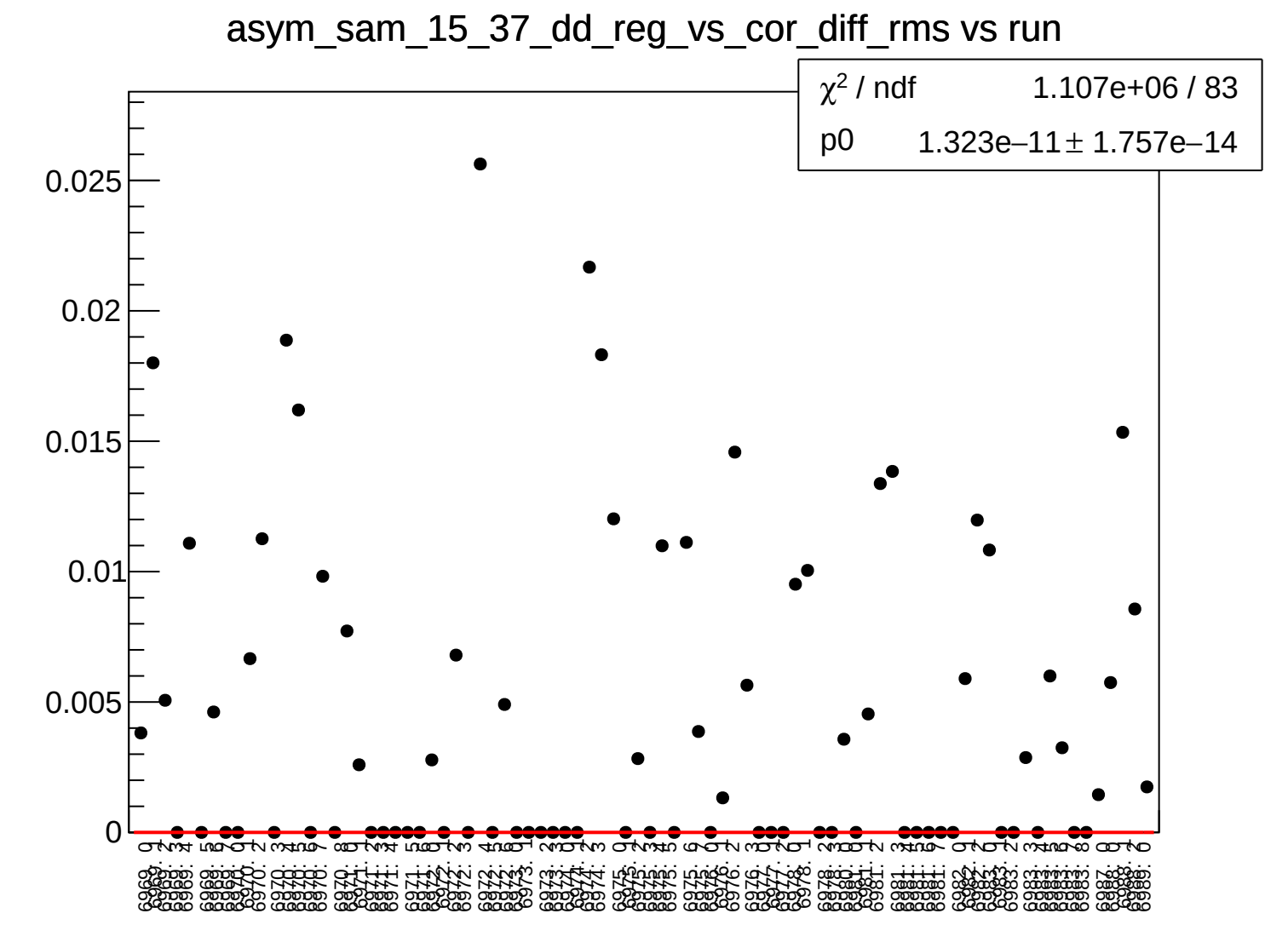

asym_sam_15_37_dd_mean vs run
χ² / ndf 92.51 / 83
p0 552 ± 461.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −209.1
Std Dev 0
3
2
1
0
−1
−2

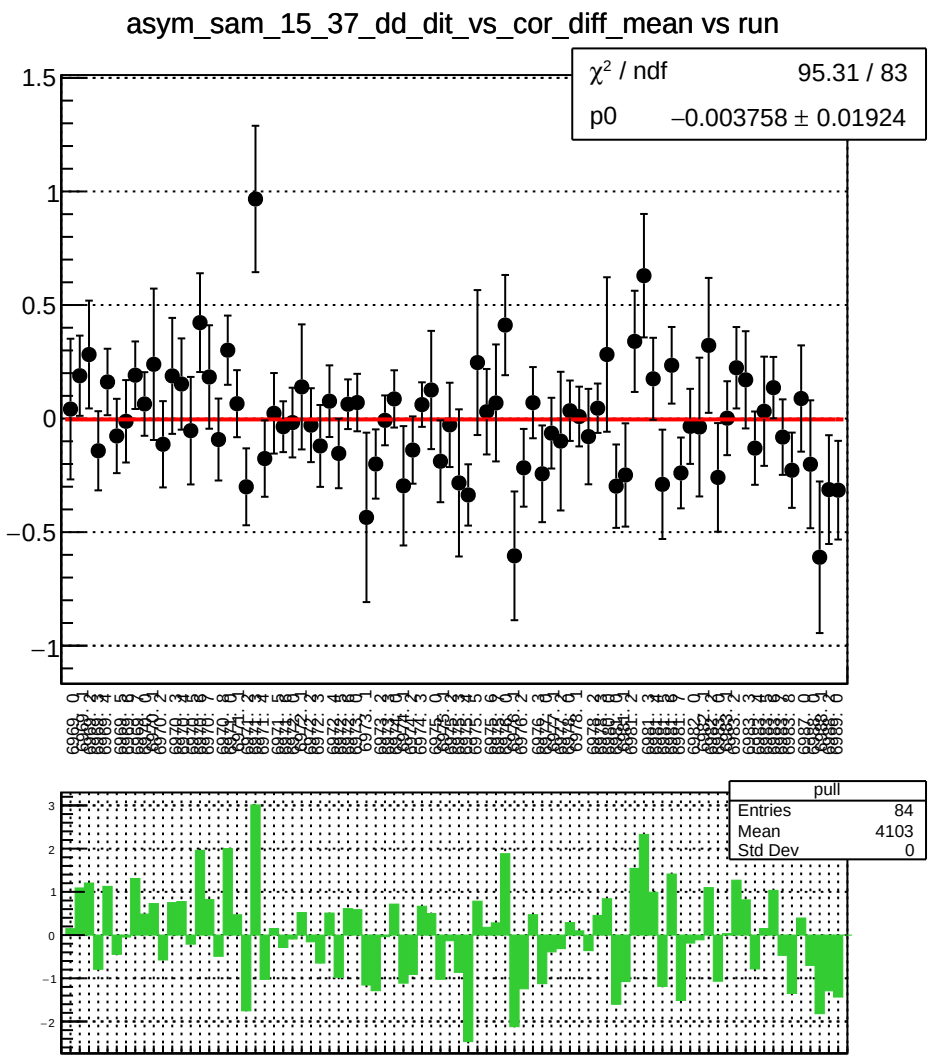

pull1D
Entries 84
Mean 0.02725
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

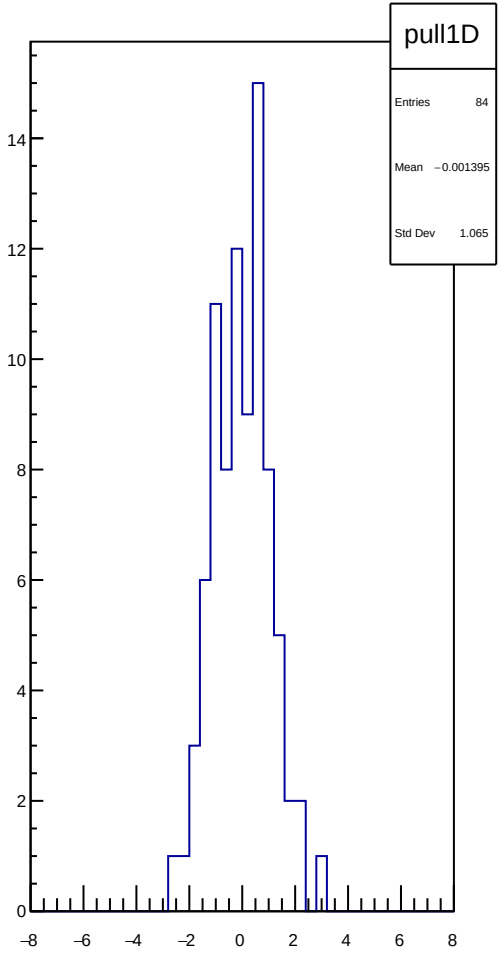

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.056e+04 / 83
p0 420.5 ± 0.326
500
480
460
440
420
400
380
360
340

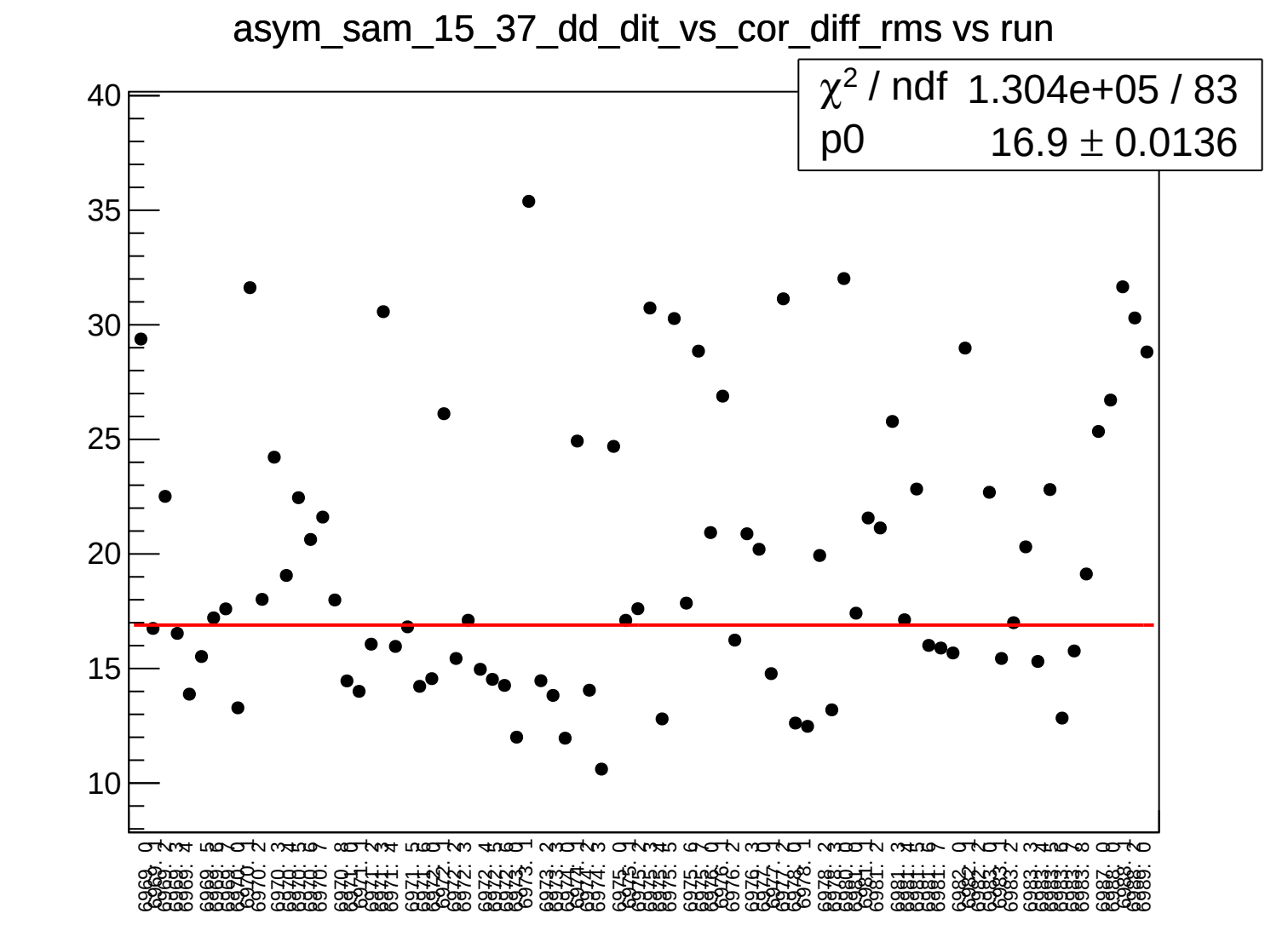

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 86.02 / 83
p0 −2.959e−14 ± 2.485e−14
pull
Entries 84
Mean −19.6
Std Dev 0

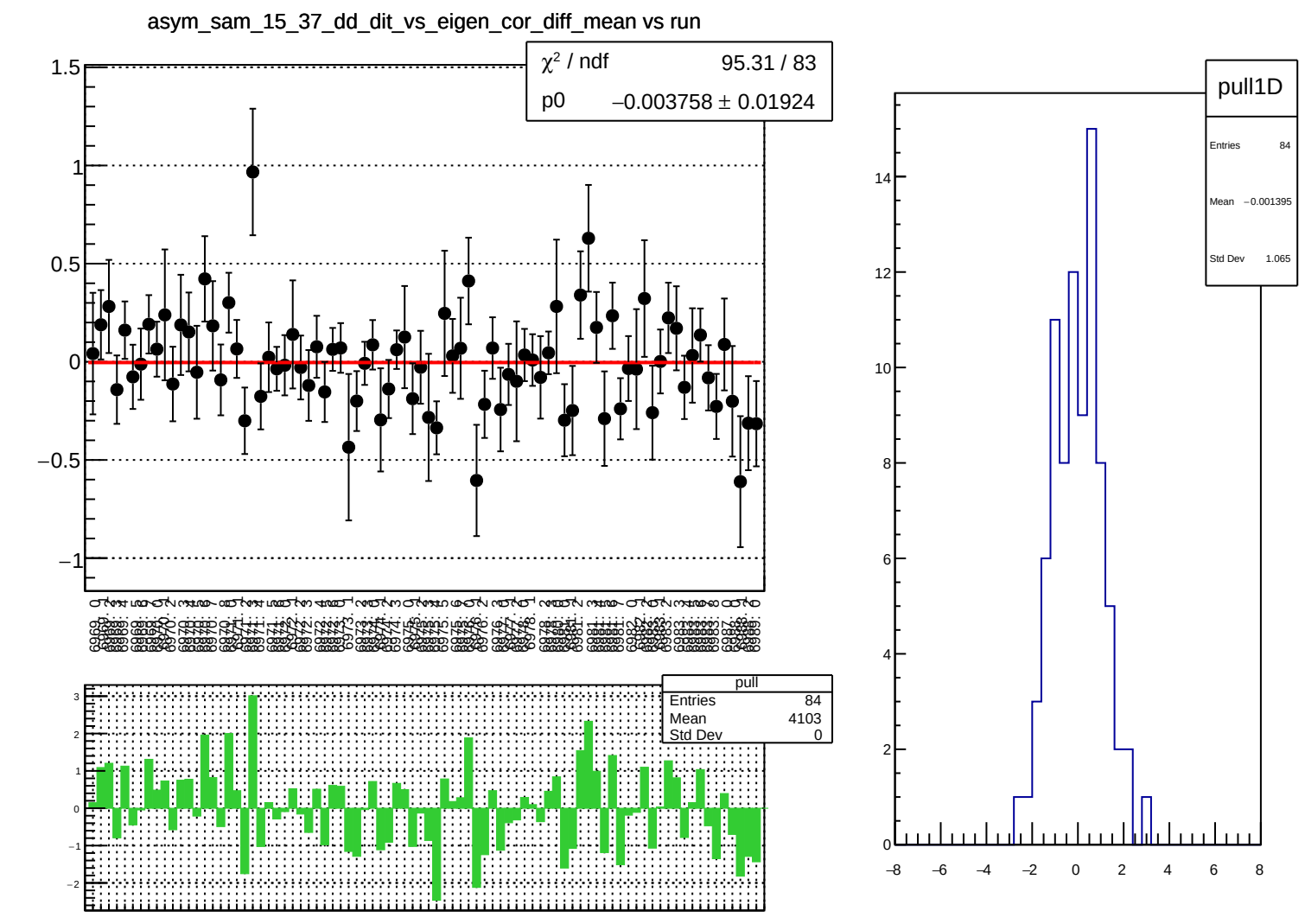

pull1D
Entries 84
Mean 0.05882
Std Dev 1.01

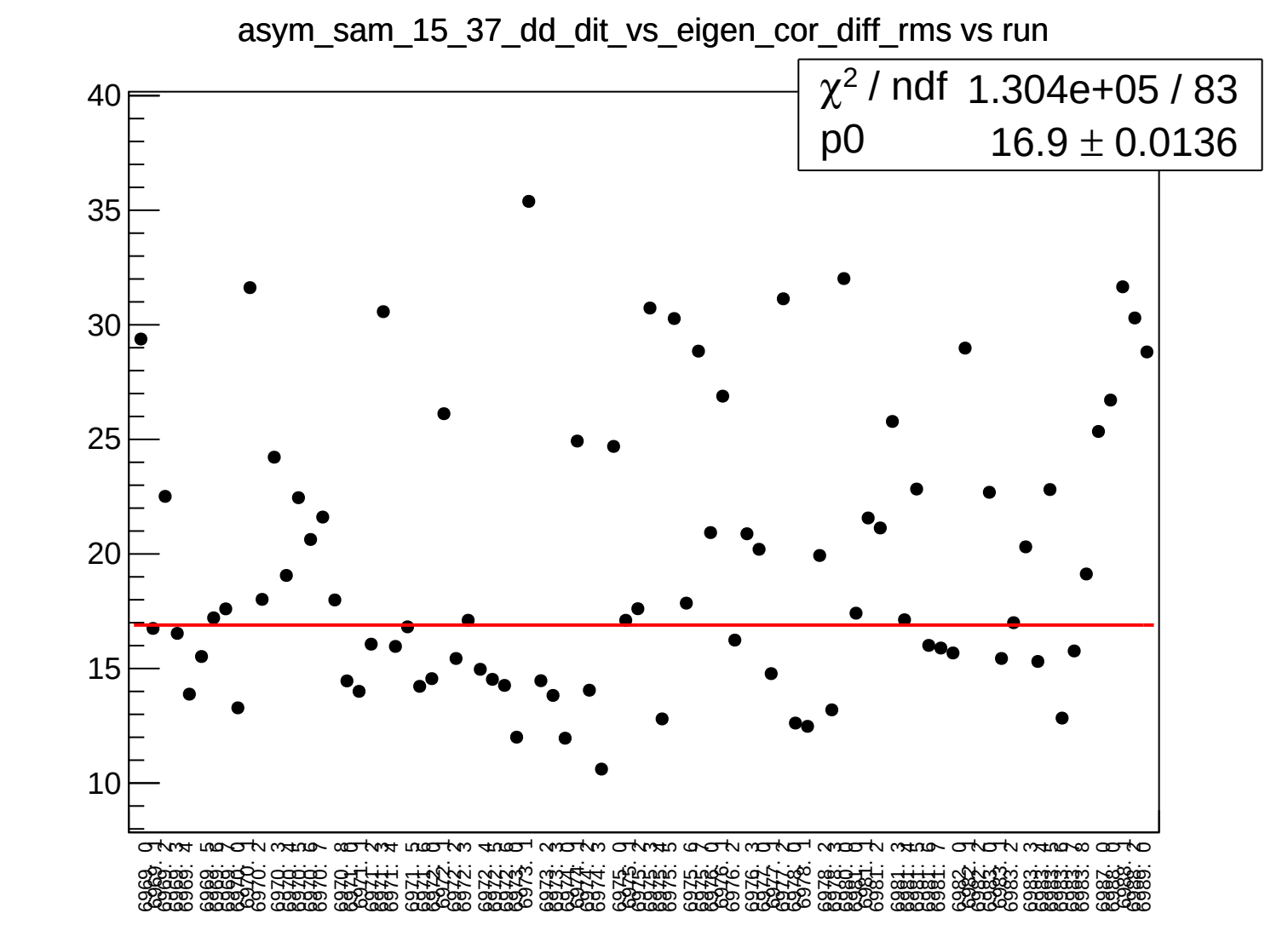

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.107e+06 / 83
p0 1.323e−11 ± 1.757e−14
0.025
0.02
0.015
0.01
0.005
0

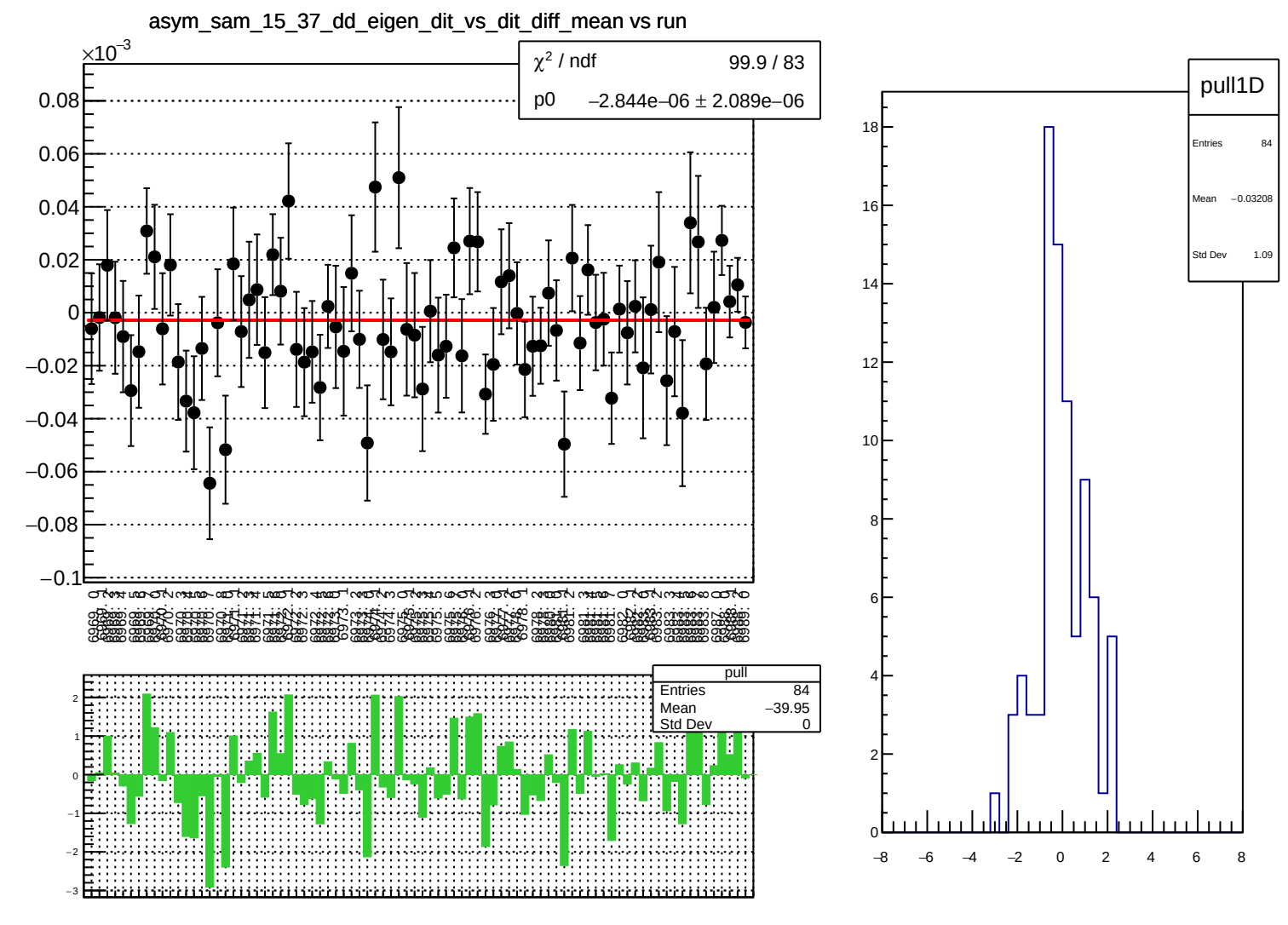

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.31 / 83
p0 −0.003758 ± 0.01924
pull
Entries 84
Mean 4103
Std Dev 0

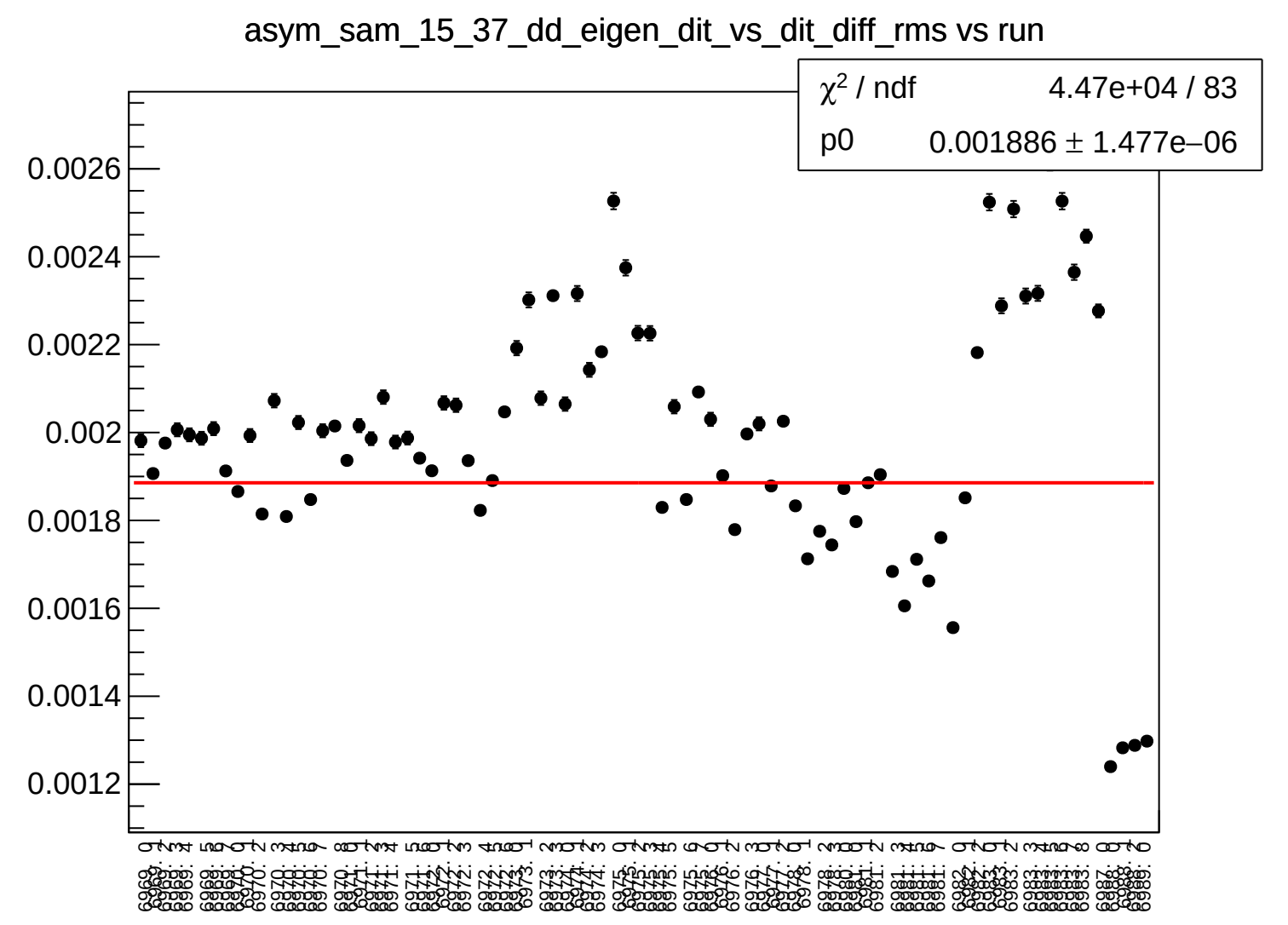

pull1D
Entries 84
Mean −0.001395
Std Dev 1.065

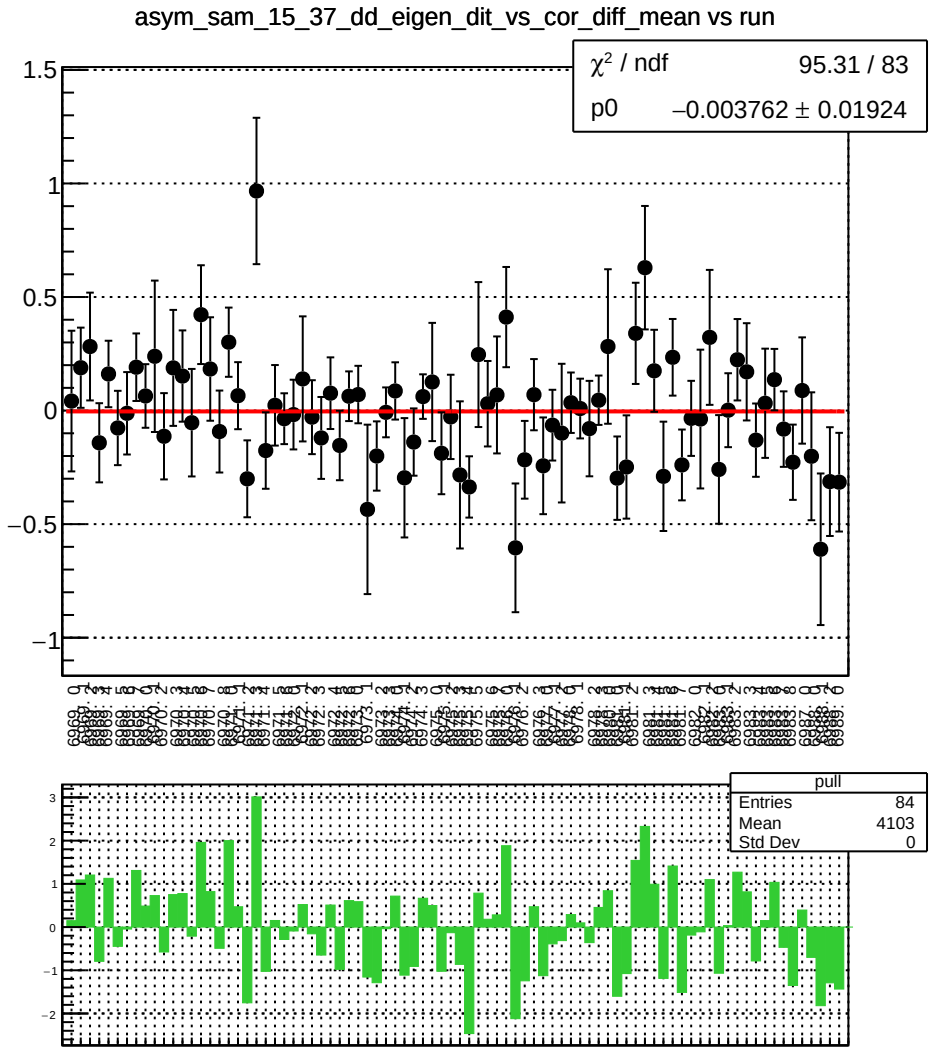

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 83
p0 16.9 ± 0.0136
40
35
30
25
20
15
10

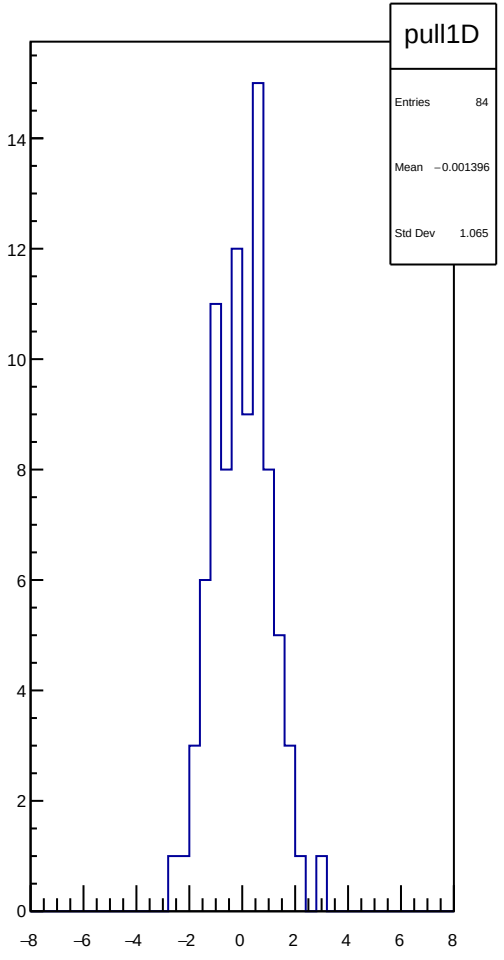

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.31 / 83
p0 −0.003758 ± 0.01924
pull
Entries 84
Mean 4103
Std Dev 0
pull1D
Entries 84
Mean −0.001395
Std Dev 1.065

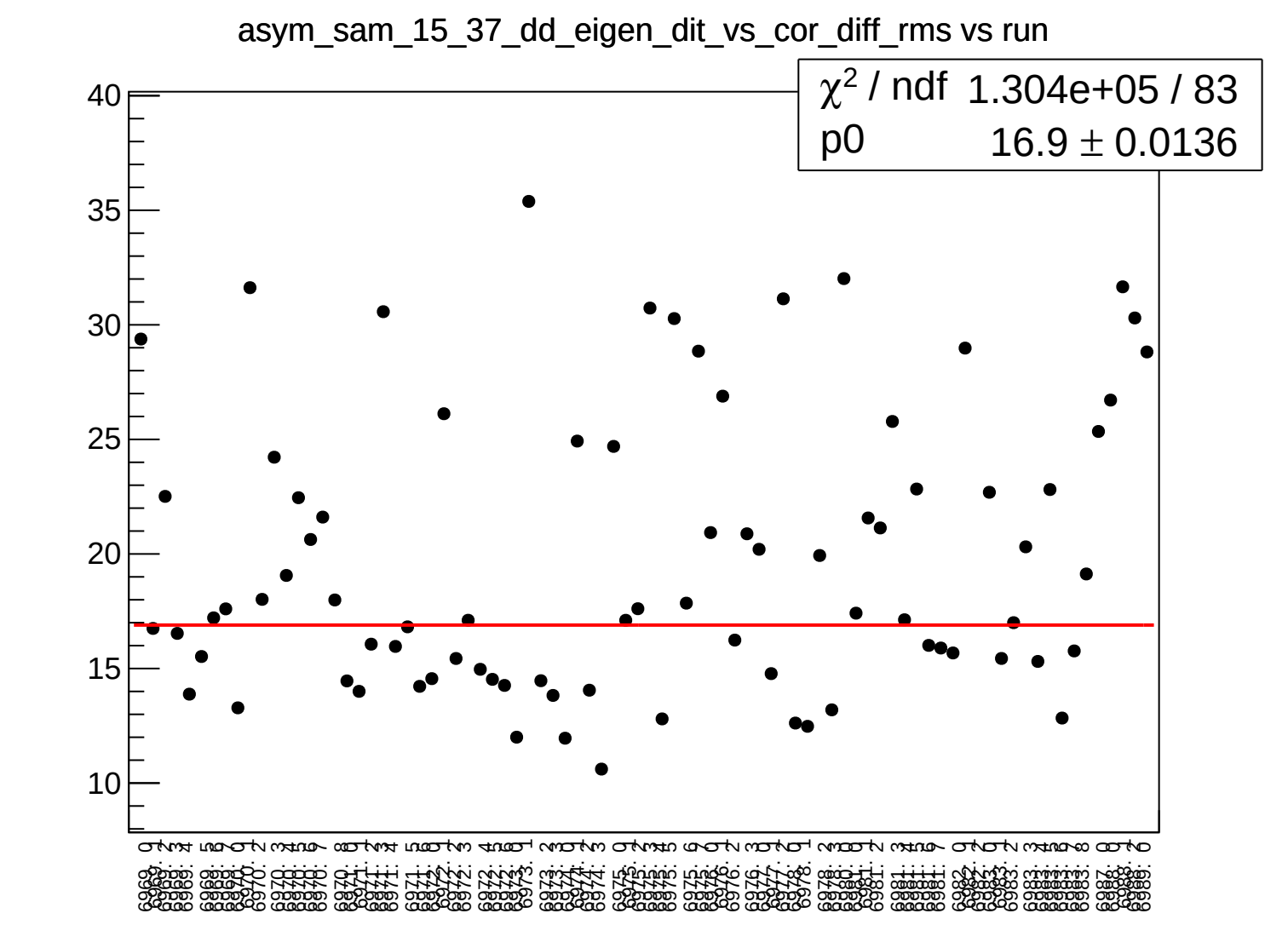

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 83
p0 16.9 ± 0.0136
40
35
30
25
20
15
10

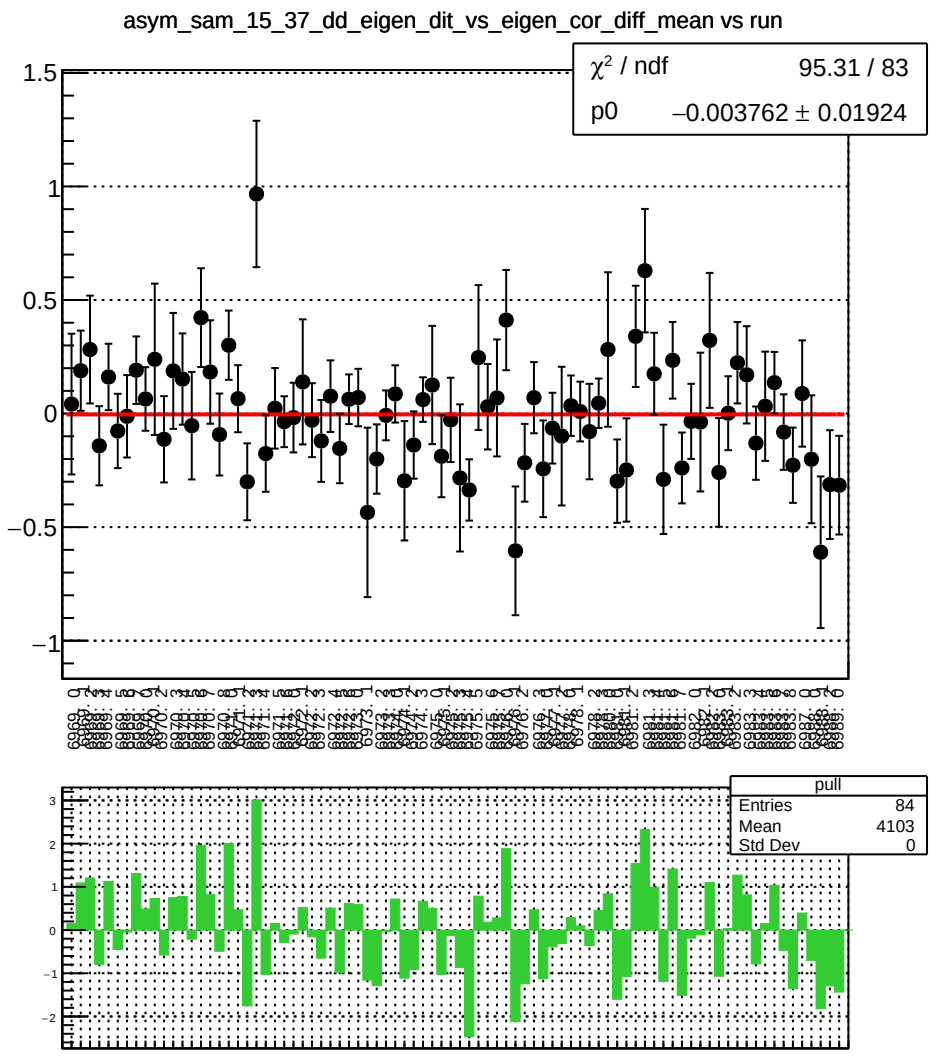

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.9 / 83
p0 −2.844e−06 ± 2.089e−06
pull
Entries 84
Mean −39.95
Std Dev 0
pull1D
Entries 84
Mean −0.03208
Std Dev 1.09

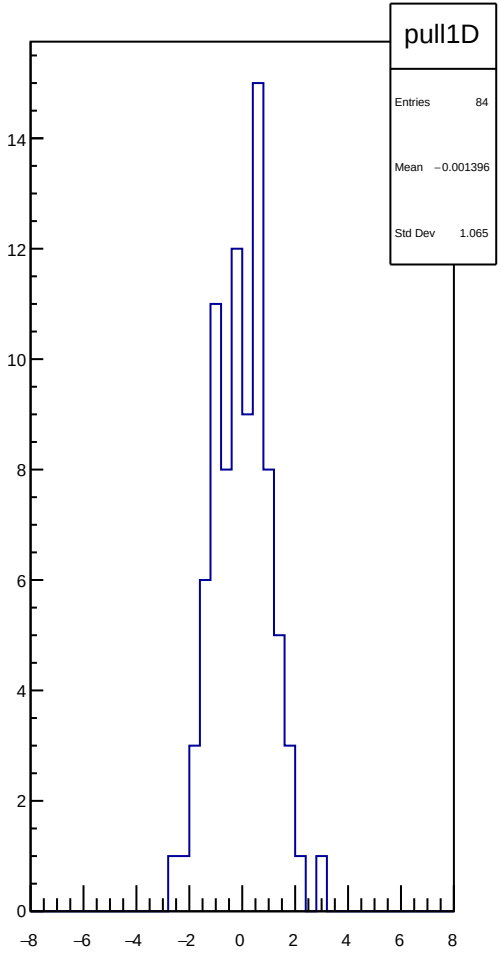

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.47e+04 / 83
p0 0.001886 ± 1.477e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

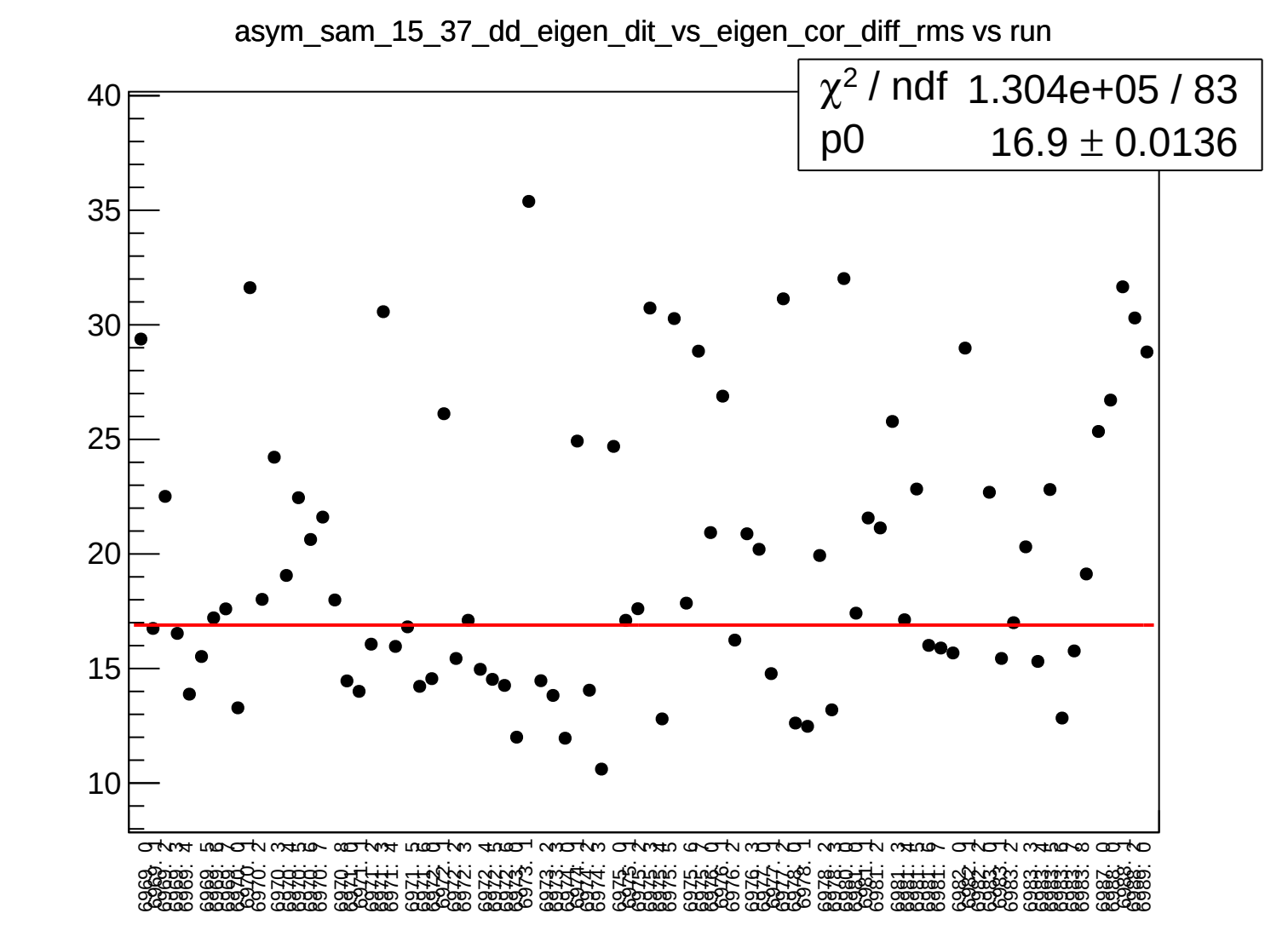

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.31 / 83
p0 −0.003762 ± 0.01924
pull
Entries 84
Mean 4103
Std Dev 0

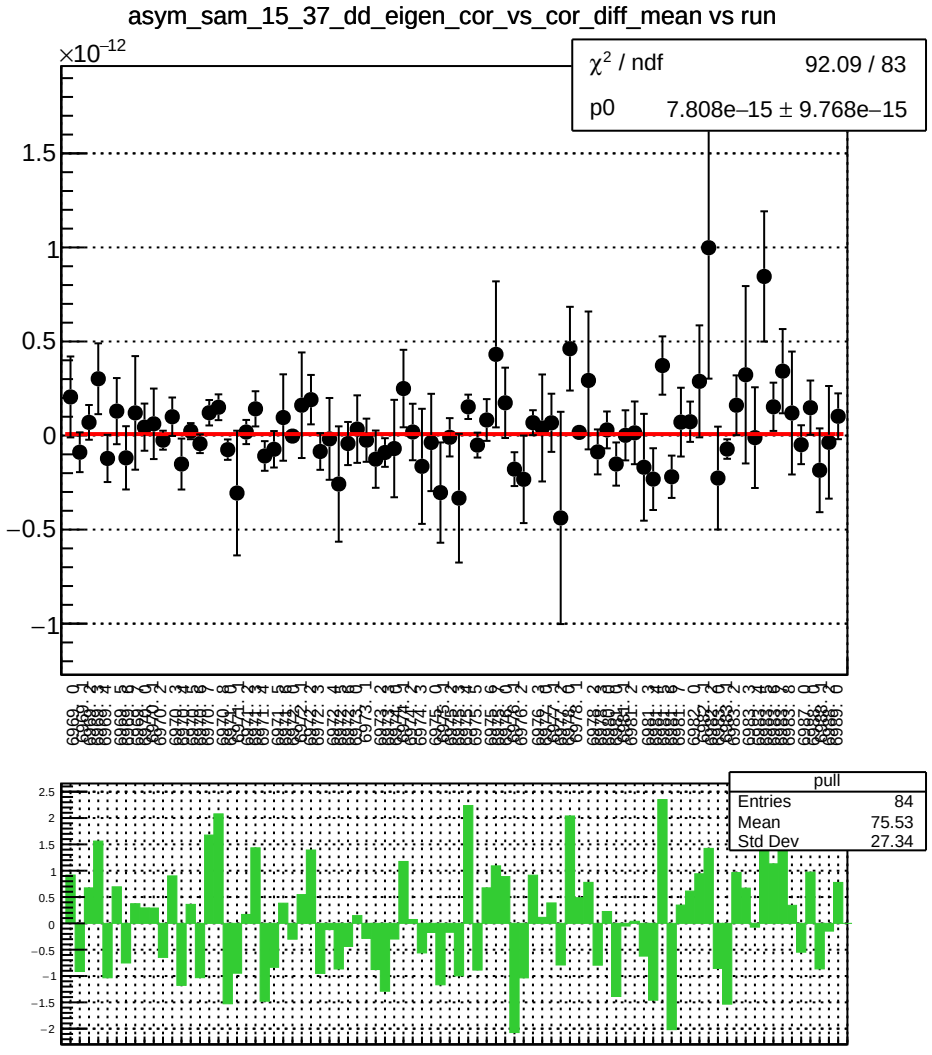

pull1D
Entries 84
Mean −0.001396
Std Dev 1.065

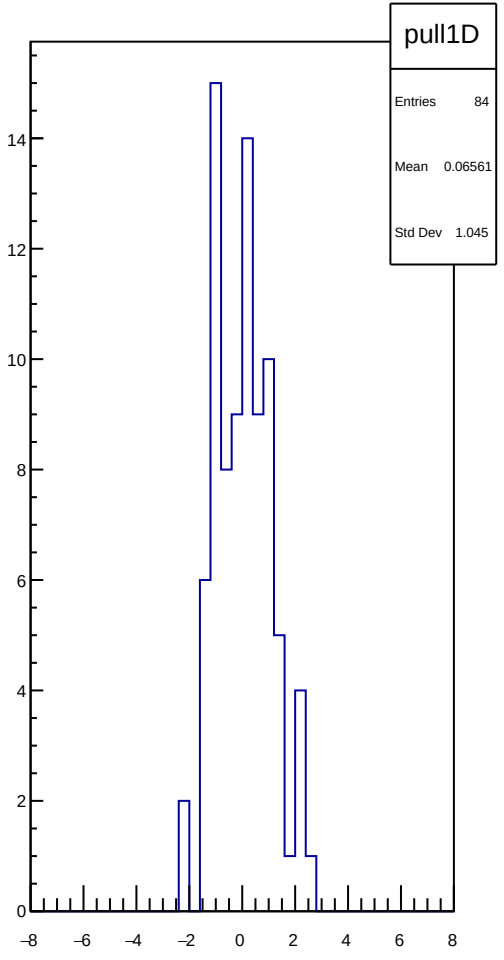

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 83
p0 16.9 ± 0.0136
40
35
30
25
20
15
10

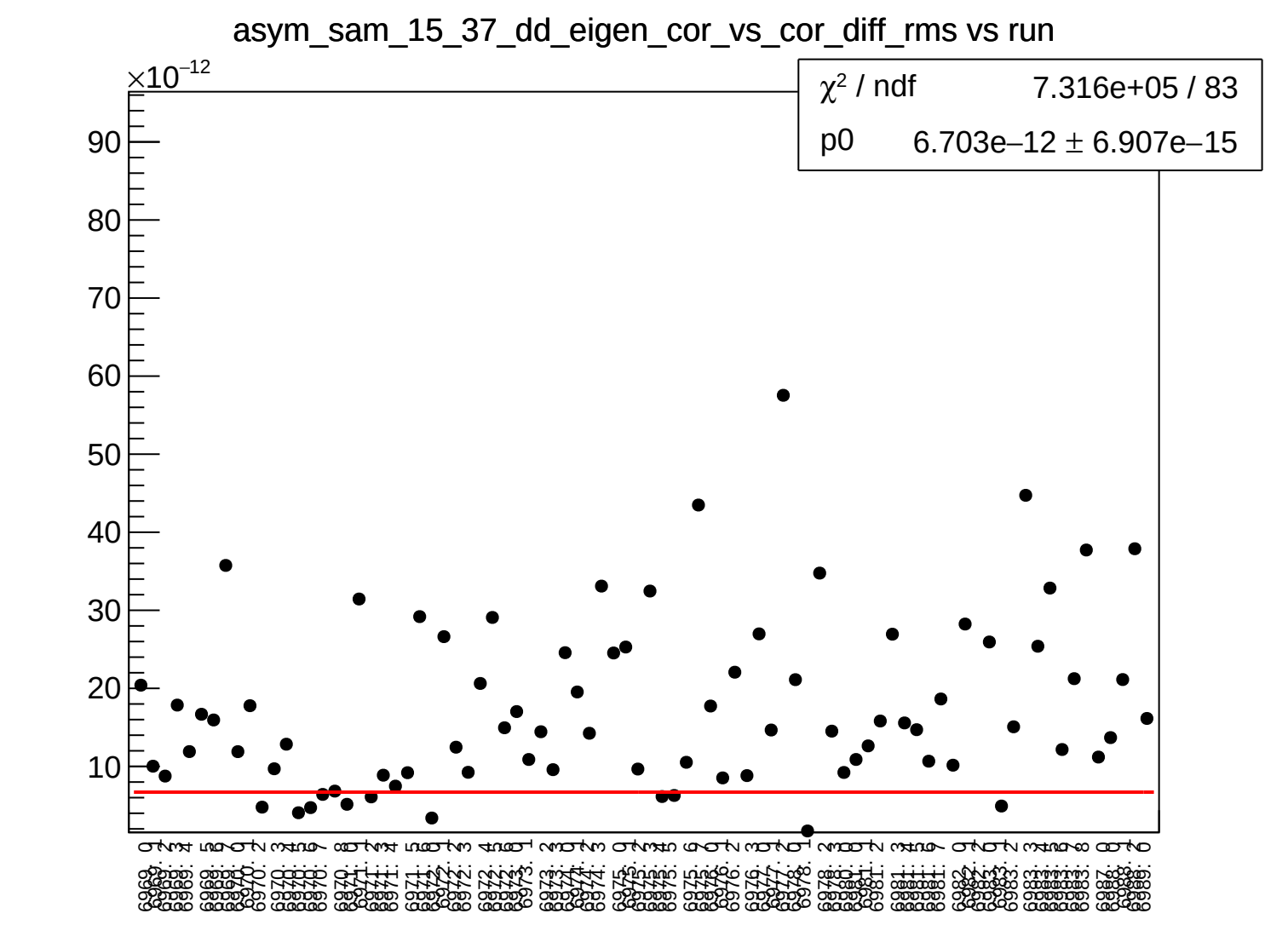

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.31 / 83
p0 −0.003762 ± 0.01924
pull
Entries 84
Mean 4103
Std Dev 0

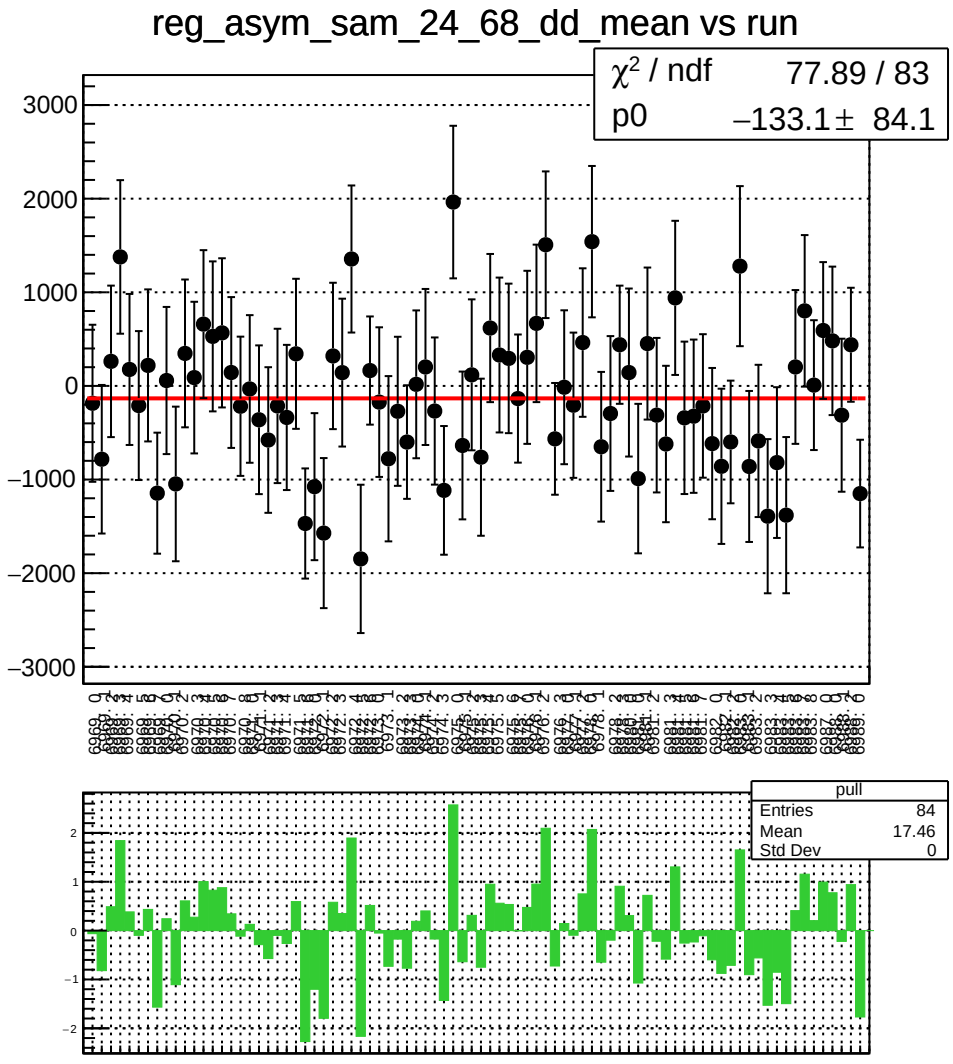

pull1D
Entries 84
Mean −0.001396
Std Dev 1.065

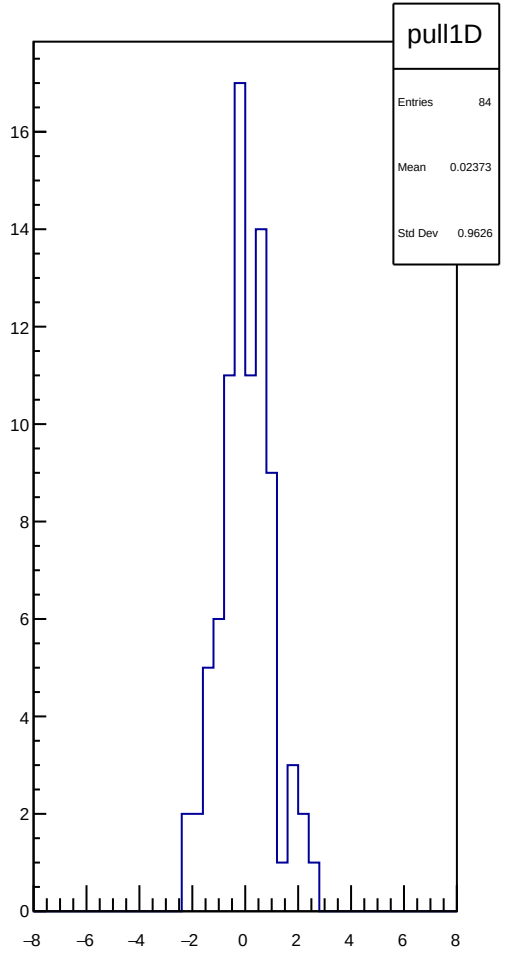

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 83
p0 16.9 ± 0.0136
40
35
30
25
20
15
10

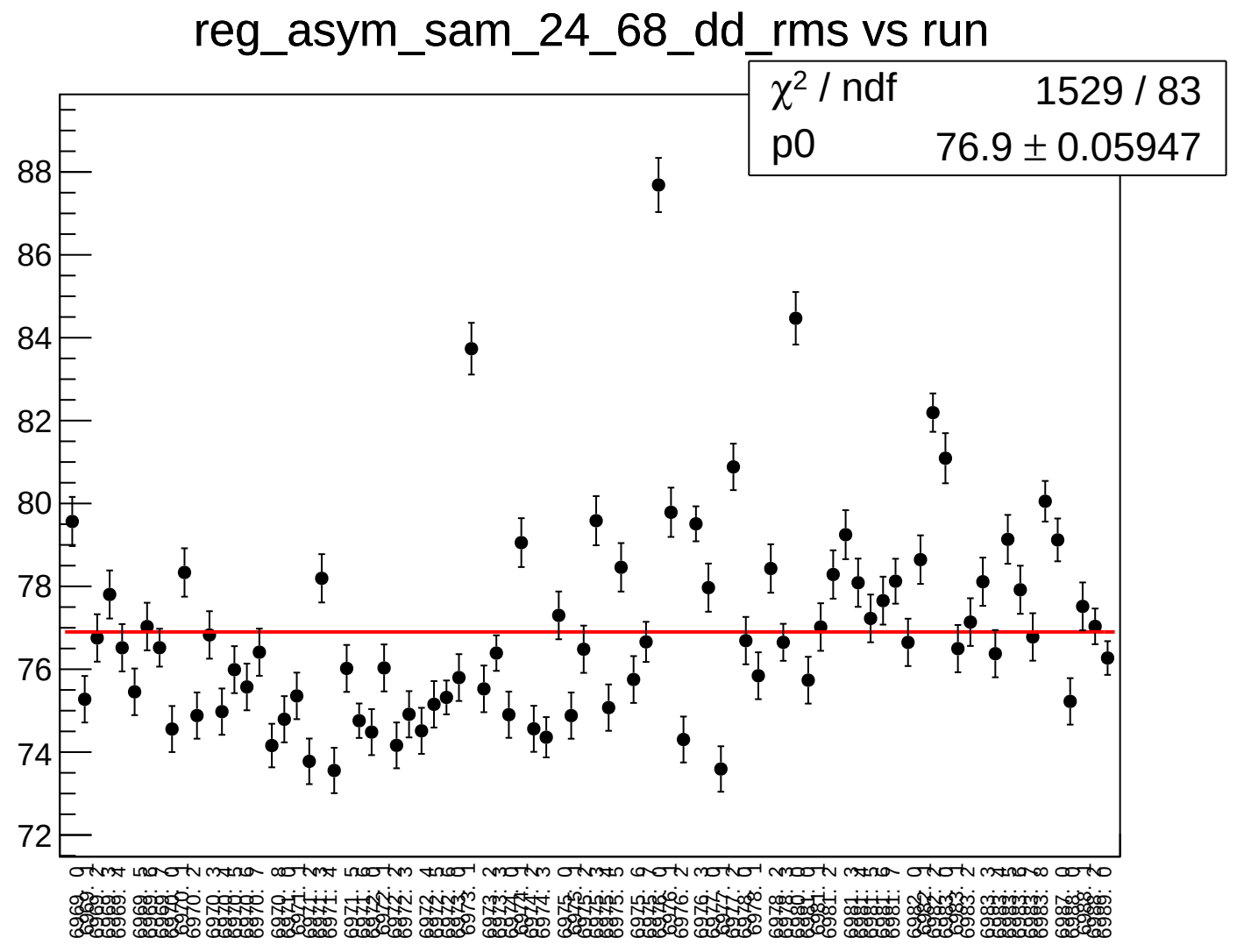

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.09 / 83
p0 7.808e−15 ± 9.768e−15
pull
Entries 84
Mean 75.53
Std Dev 27.34

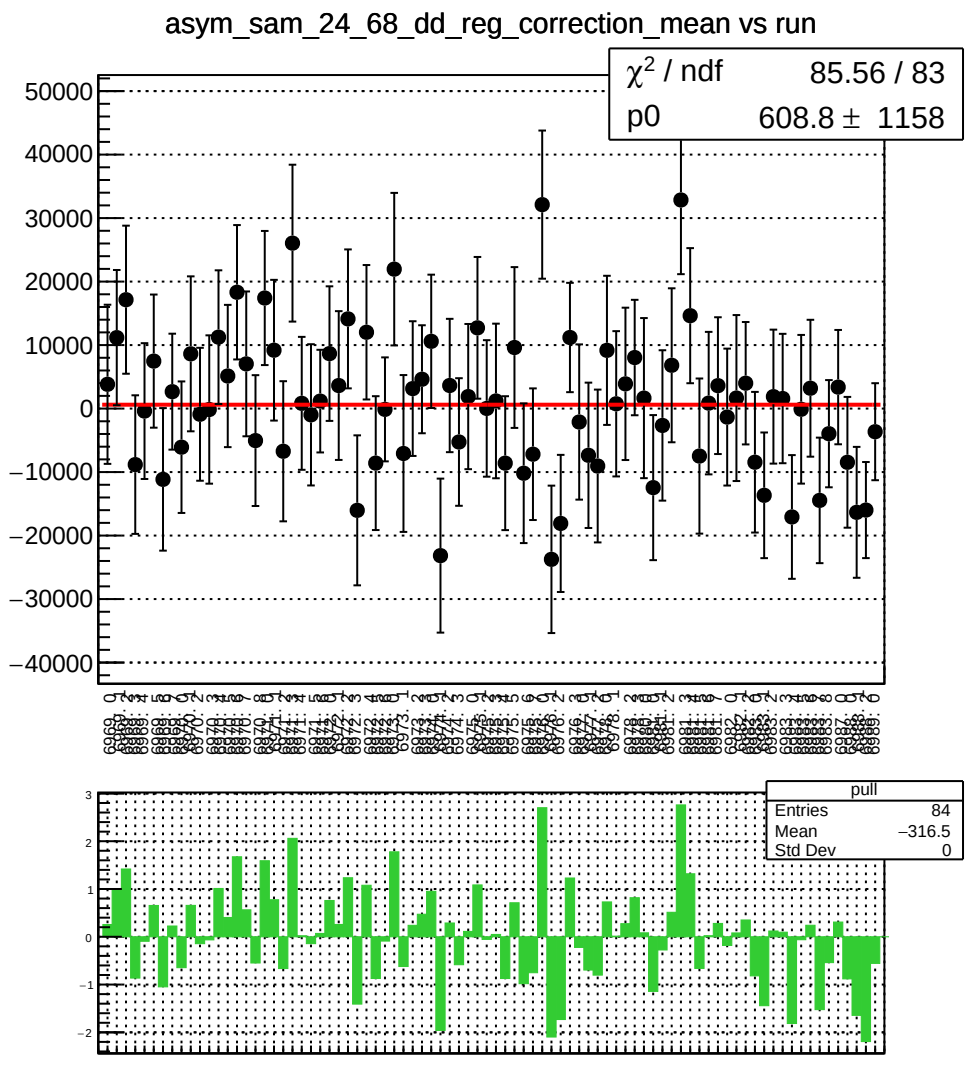

pull1D
Entries 84
Mean 0.06561
Std Dev 1.045

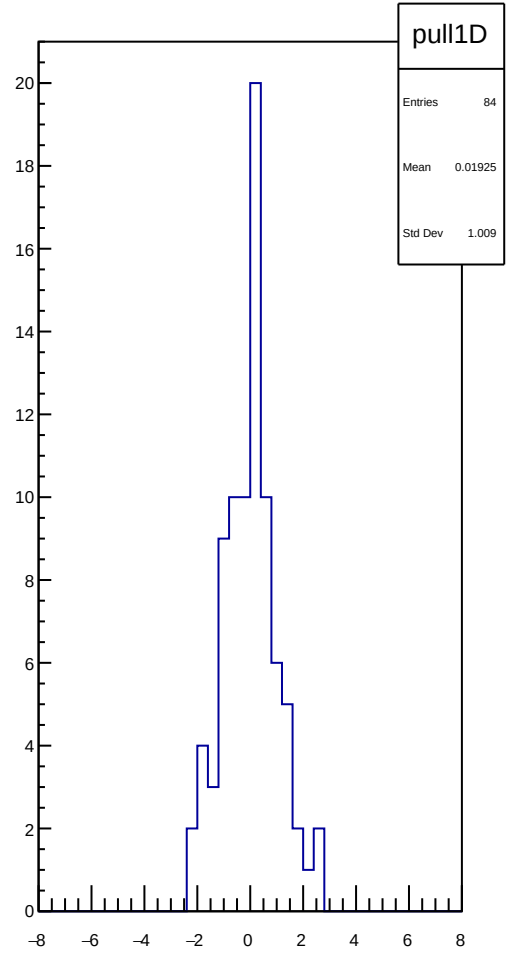

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.316e+05 / 83
p0 6.703e−12 ± 6.907e−15
90
80
70
60
50
40
30
20
10

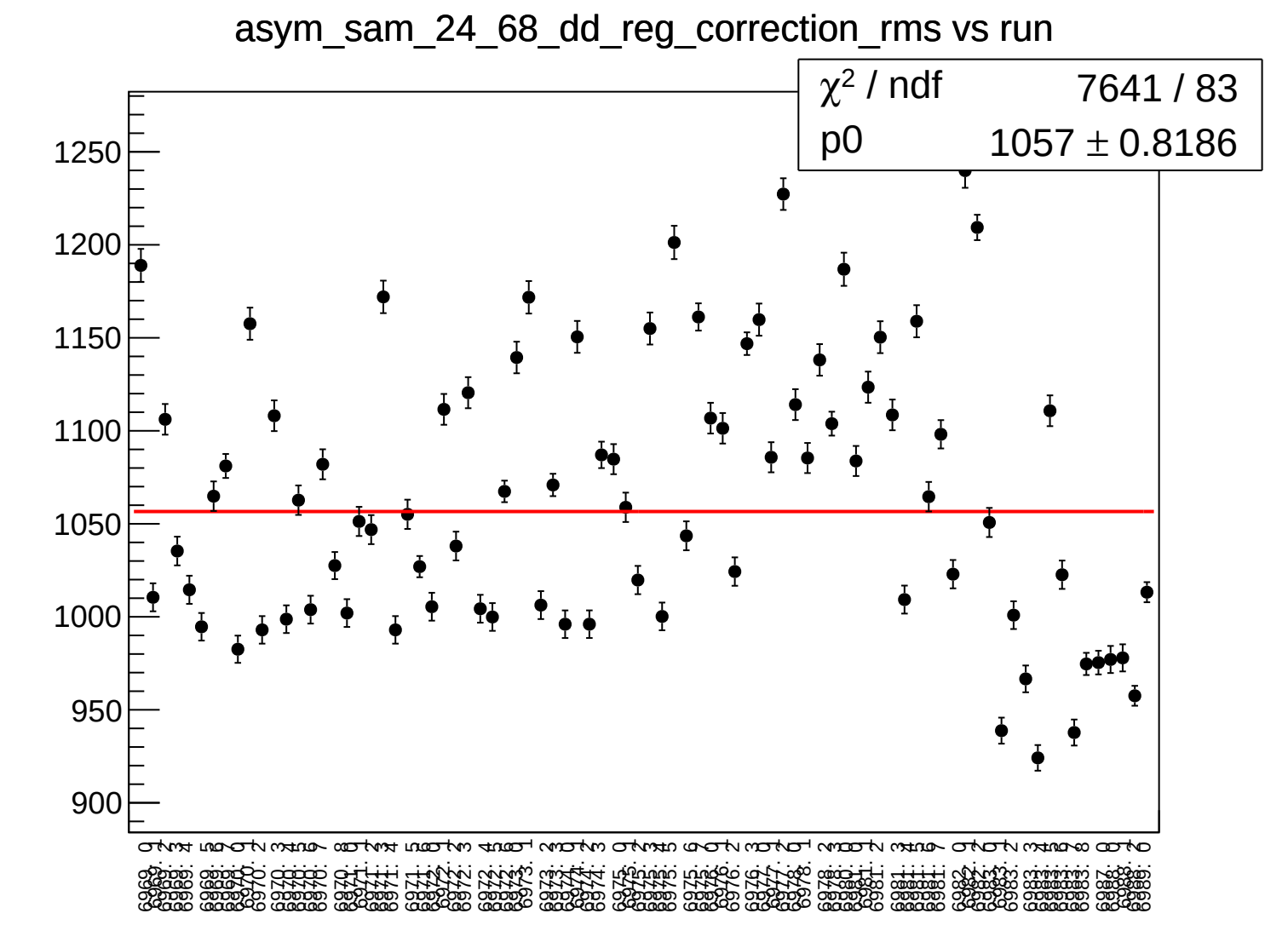

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 77.89 / 83
p0 −133.1 ± 84.1
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 17.46
Std Dev 0
2
1
0
−1
−2

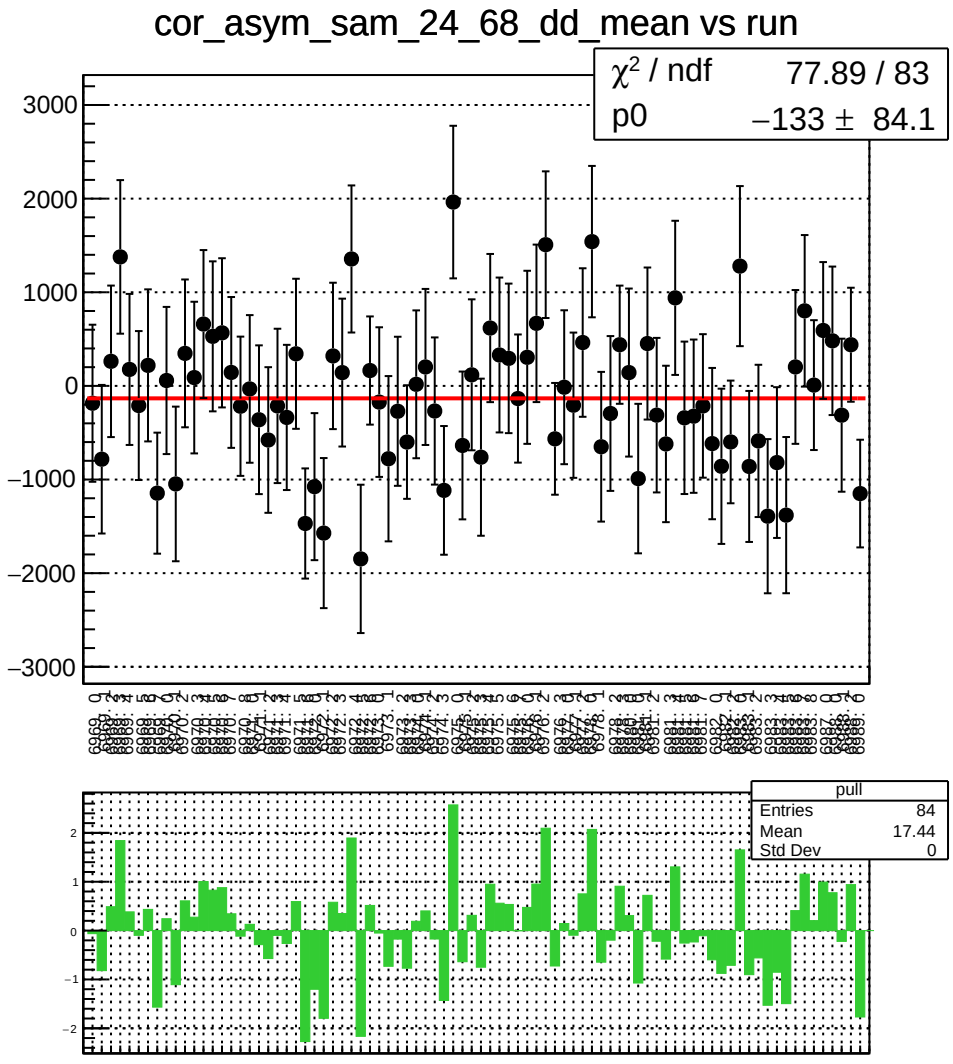

pull1D
Entries 84
Mean 0.02373
Std Dev 0.9626
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

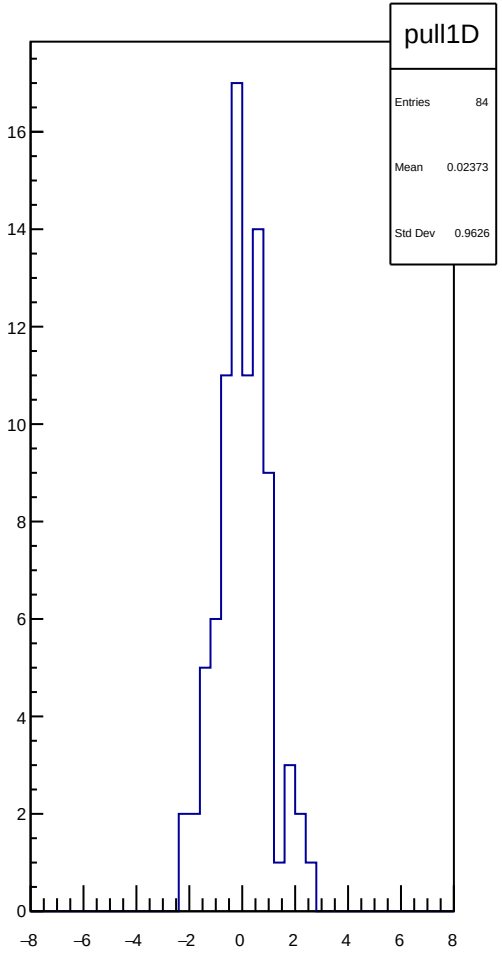

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1529 / 83
p0 76.9 ± 0.05947
88
86
84
82
80
78
76
74
72

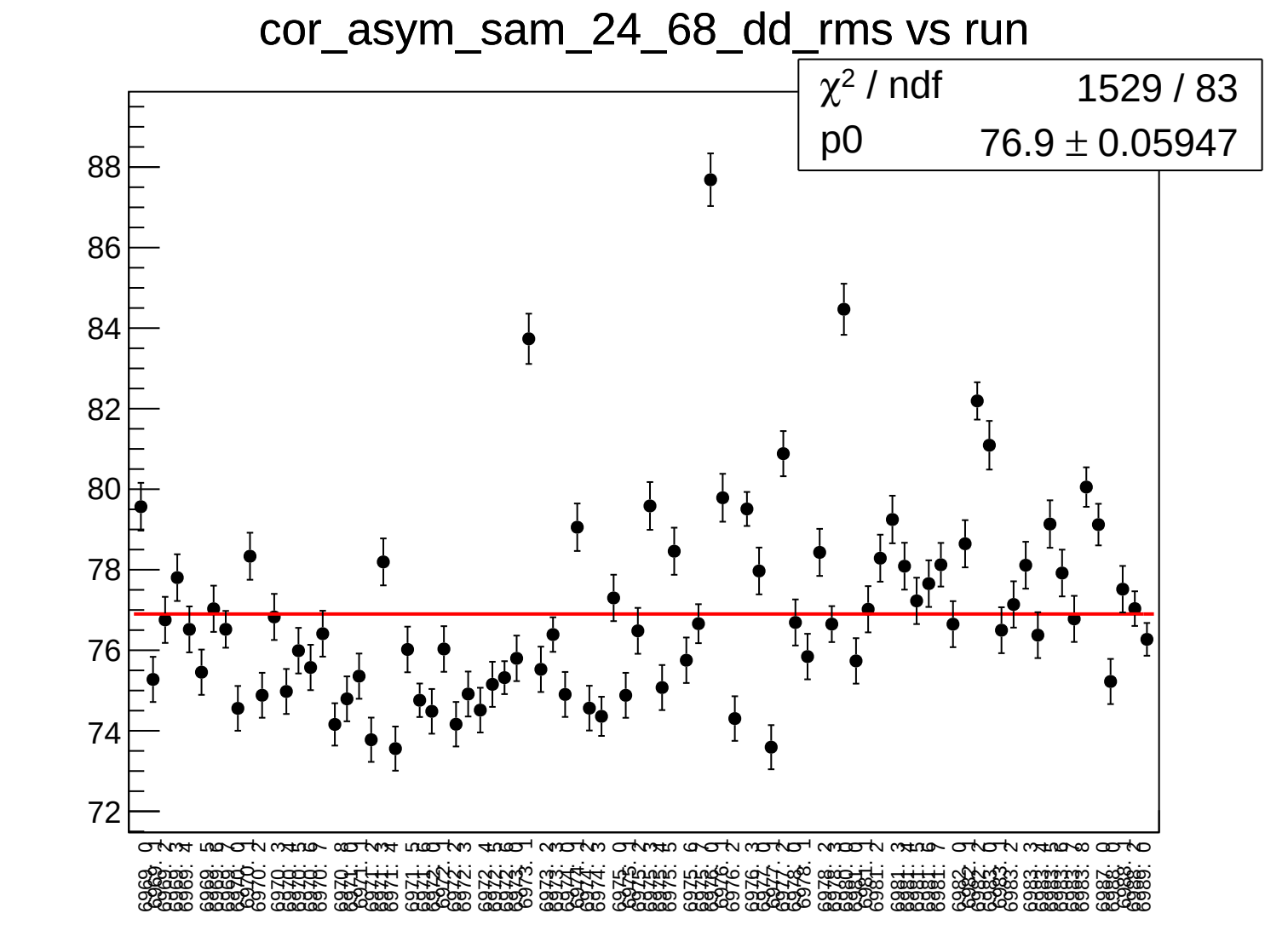

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 85.56 / 83
p0 608.8 ± 1158
pull
Entries 84
Mean −316.5
Std Dev 0

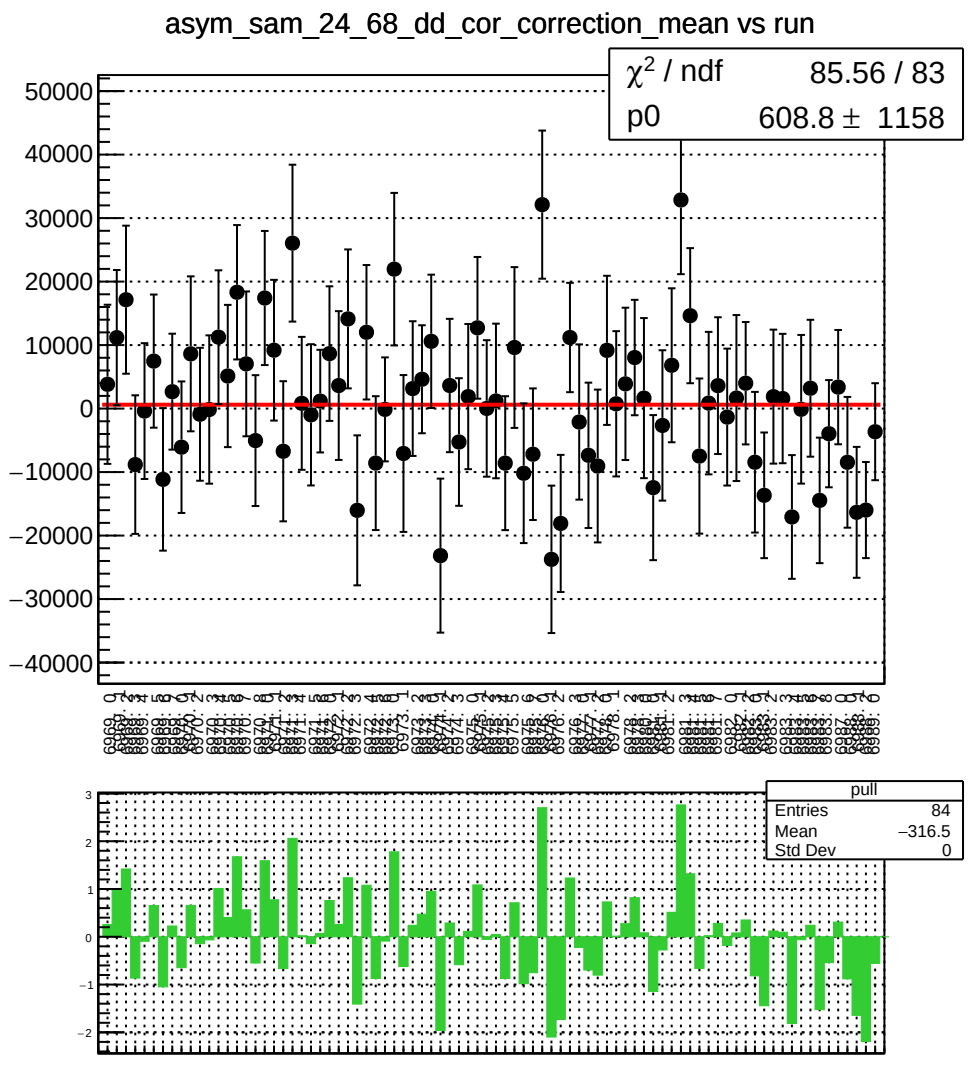

pull1D
Entries 84
Mean 0.01925
Std Dev 1.009

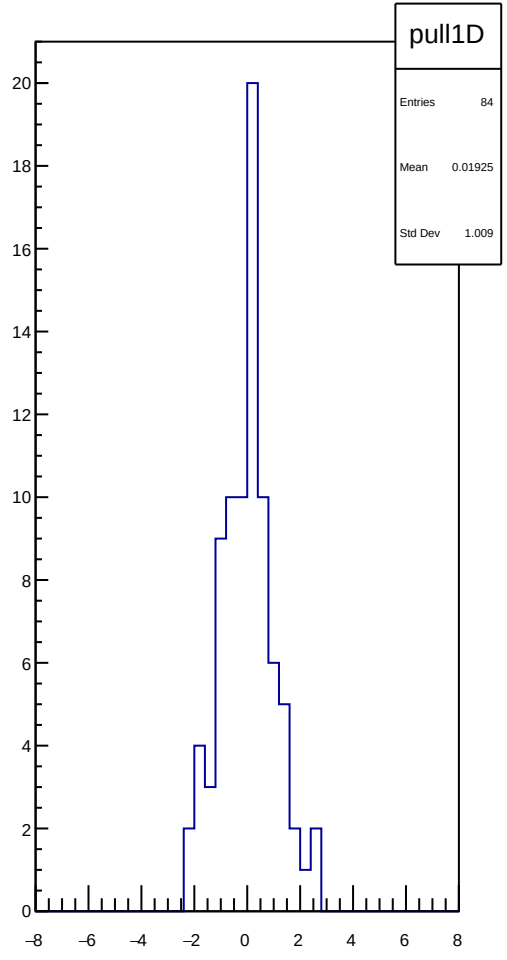

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 7641 / 83
p0 1057 ± 0.8186
1250
1200
1150
1100
1050
1000
950
900

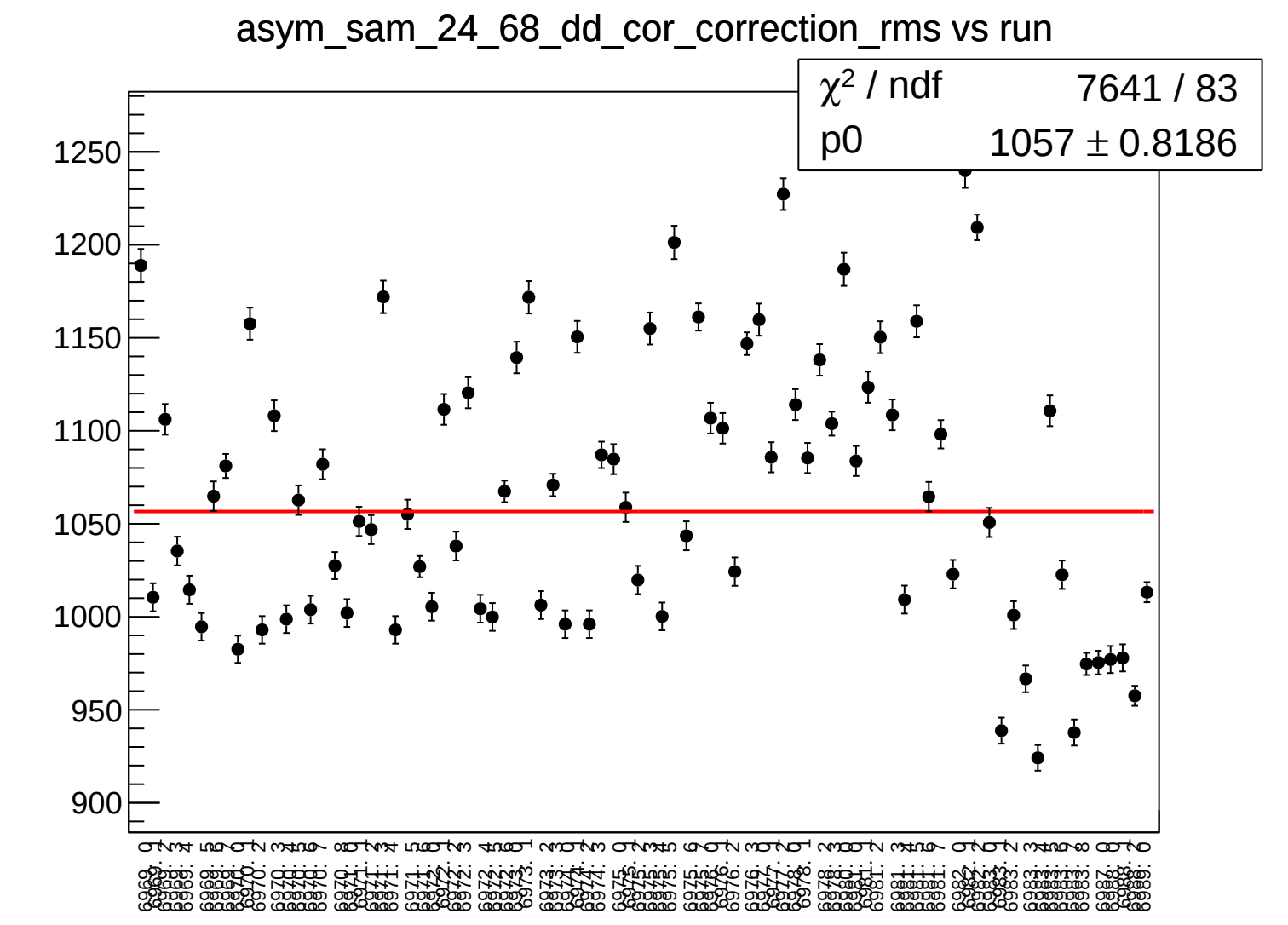

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 77.89 / 83
p0 −133 ± 84.1
pull
Entries 84
Mean 17.44
Std Dev 0

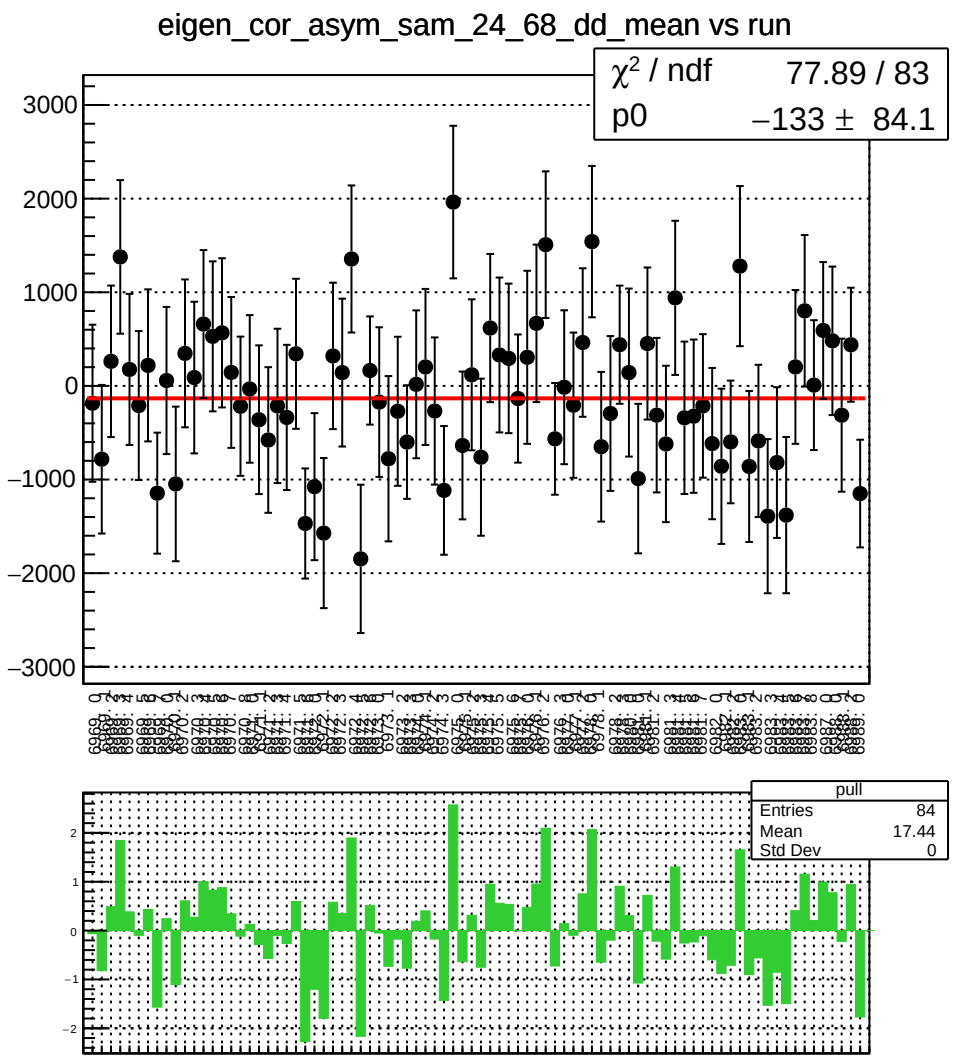

pull1D
Entries 84
Mean 0.02373
Std Dev 0.9626

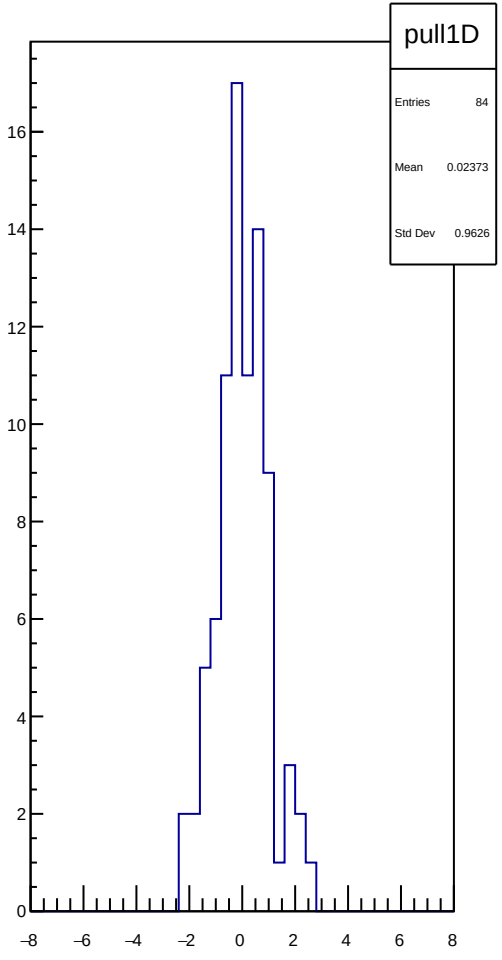

cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1529 / 83
p0 76.9 ± 0.05947
88
86
84
82
80
78
76
74
72

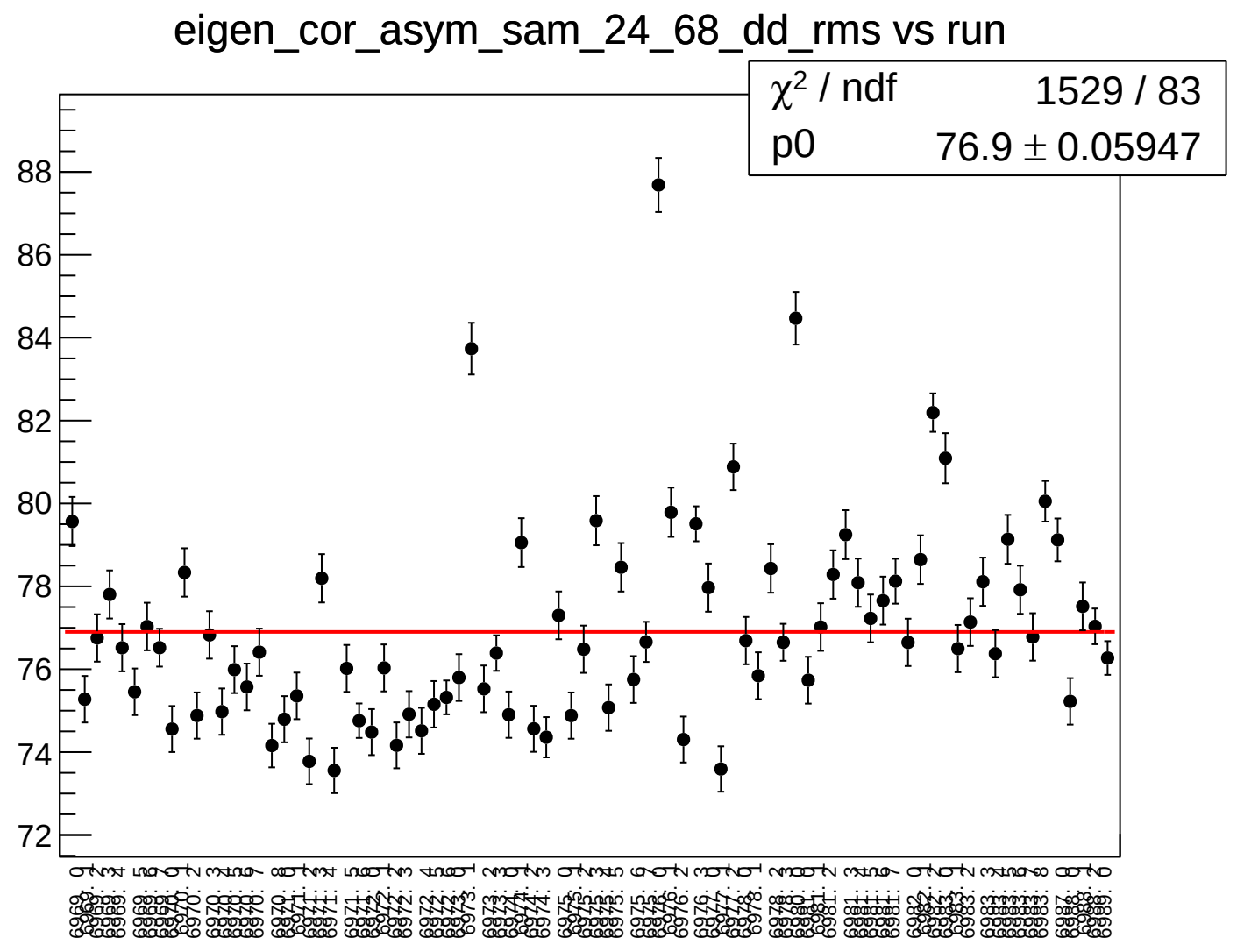

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 85.56 / 83
p0 608.8 ± 1158
pull
Entries 84
Mean −316.5
Std Dev 0

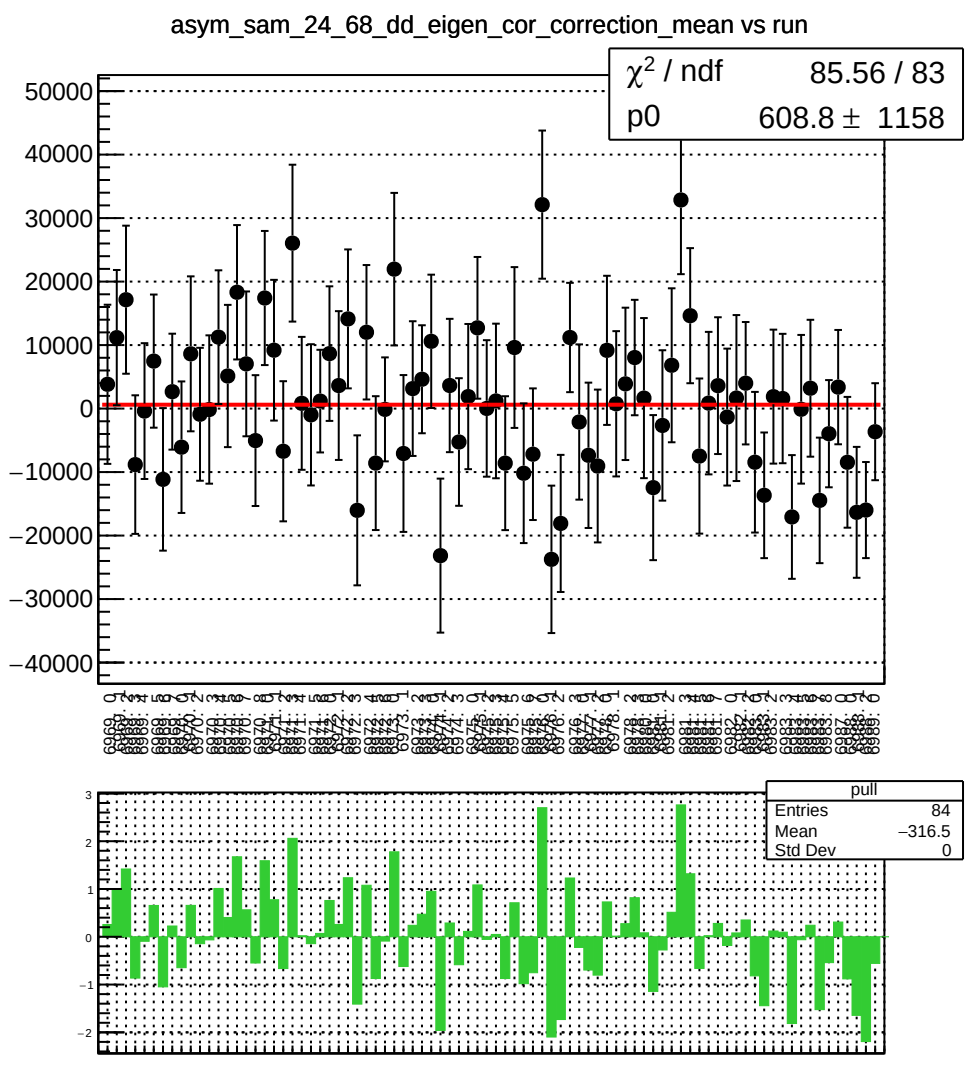

pull1D
Entries 84
Mean 0.01925
Std Dev 1.009

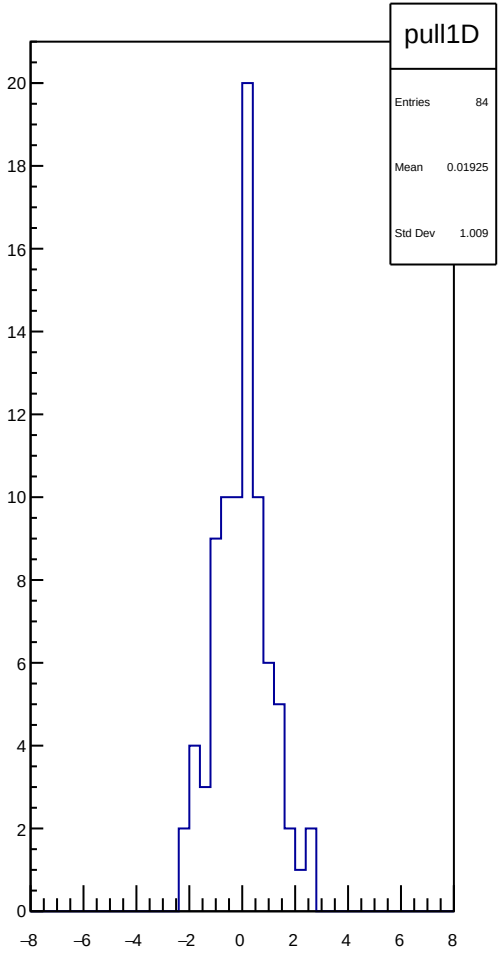

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 7641 / 83
p0 1057 ± 0.8186
1250
1200
1150
1100
1050
1000
950
900

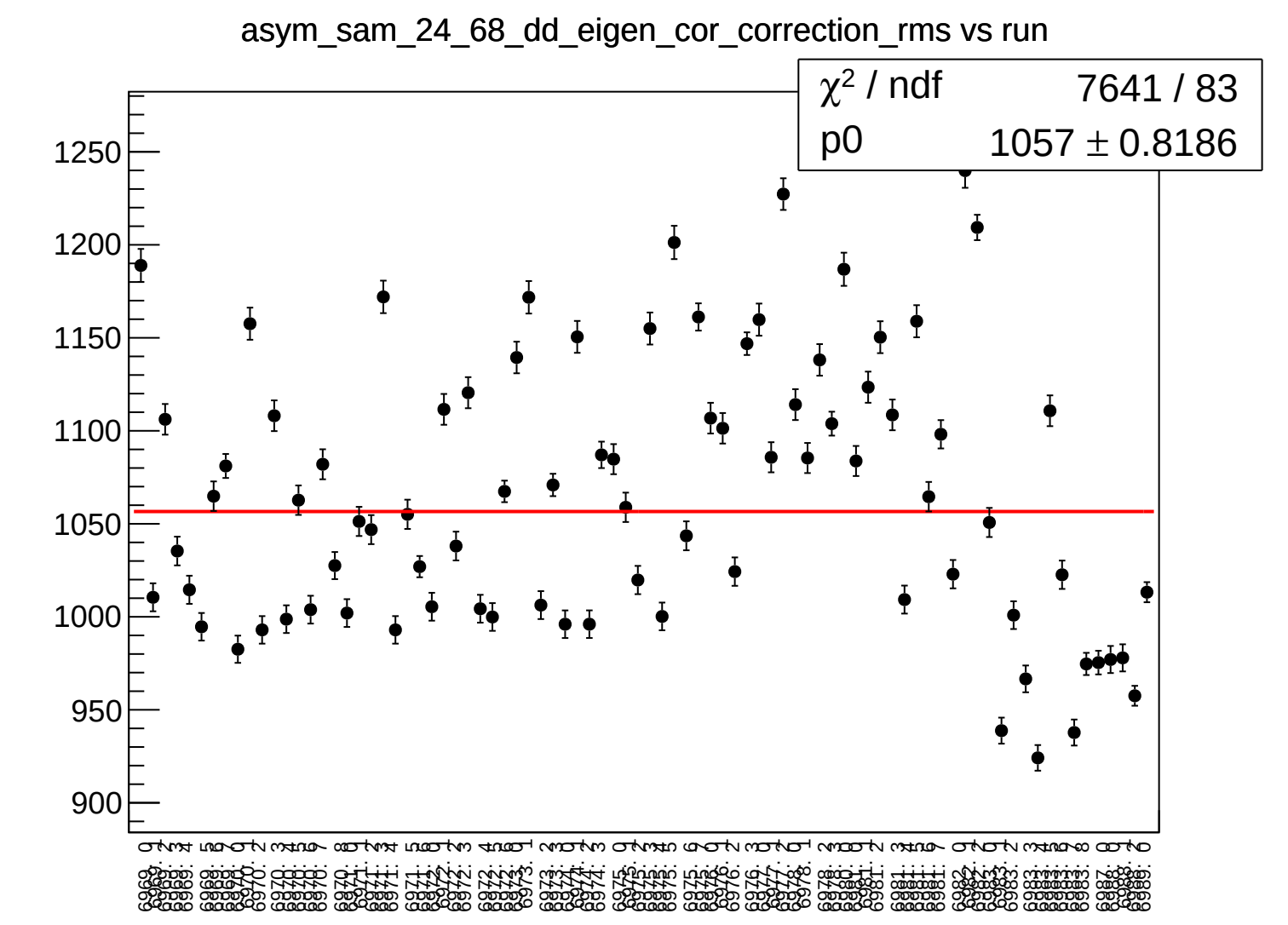

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 77.89 / 83
p0 −133 ± 84.1
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 17.44
Std Dev 0
2
1
0
−1
−2

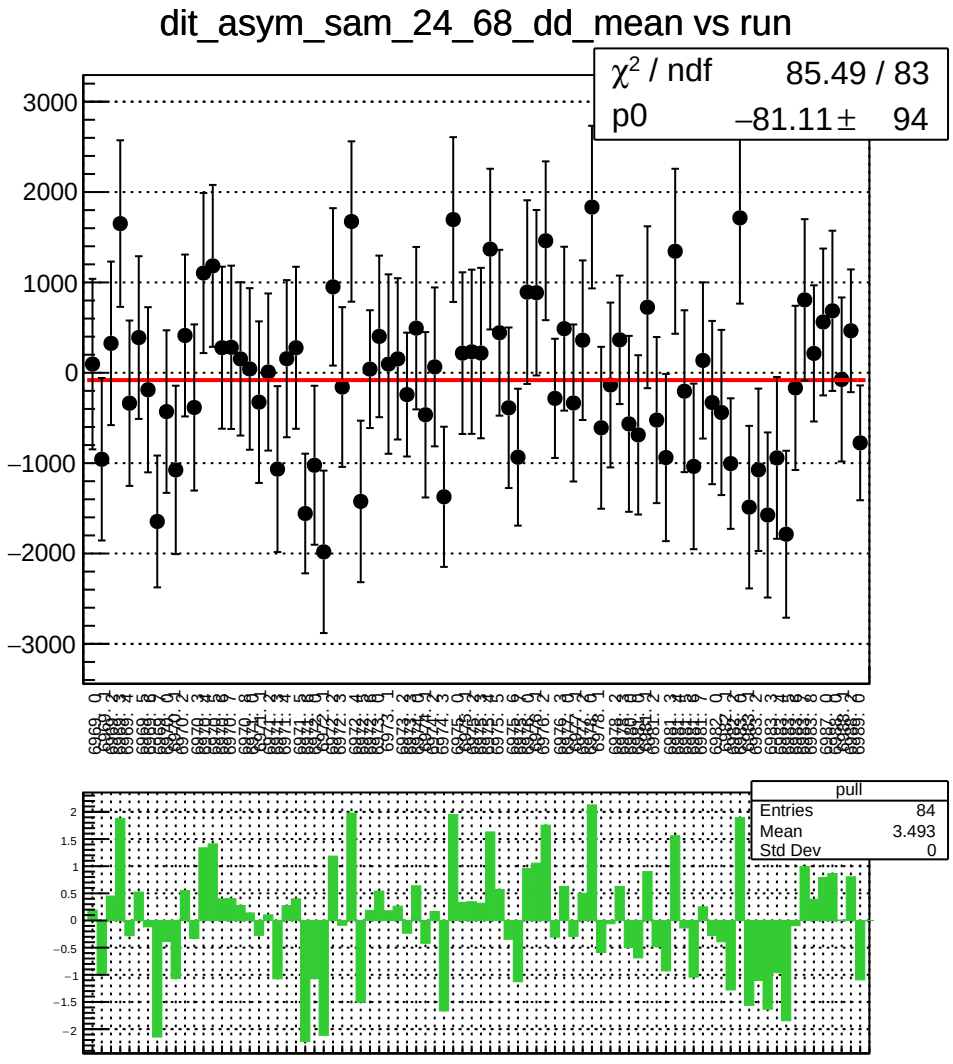

pull1D
Entries 84
Mean 0.02373
Std Dev 0.9626
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

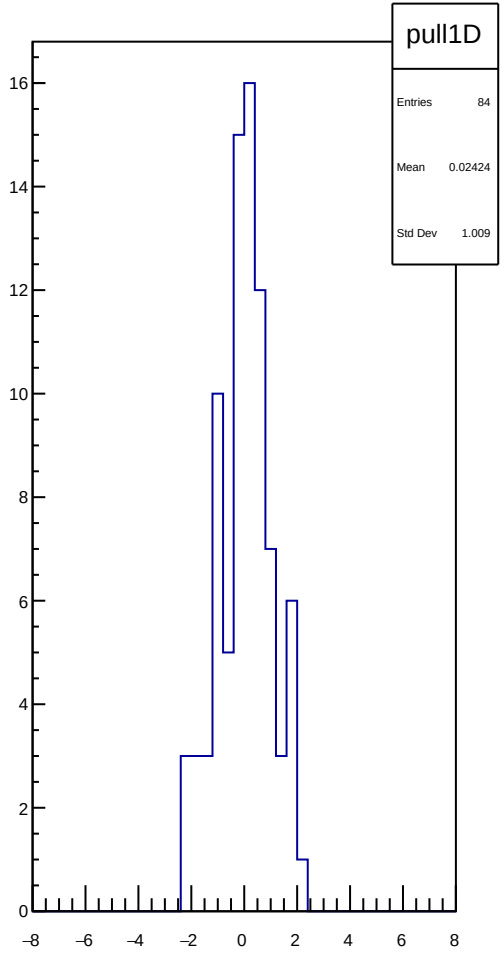

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1529 / 83
p0 76.9 ± 0.05947
88
86
84
82
80
78
76
74
72

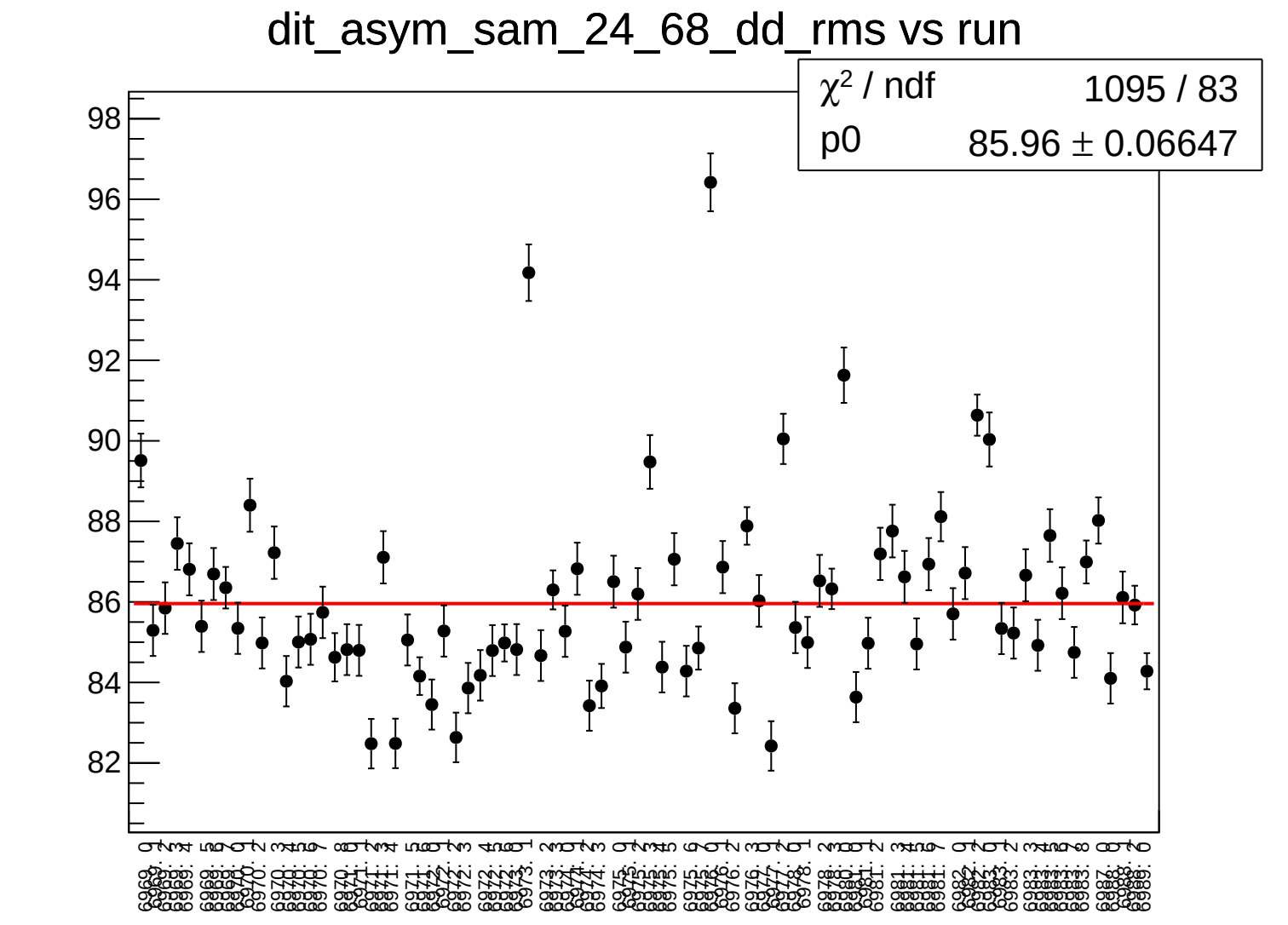

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.56 / 83
p0 608.8 ± 1158
pull
Entries 84
Mean −316.5
Std Dev 0

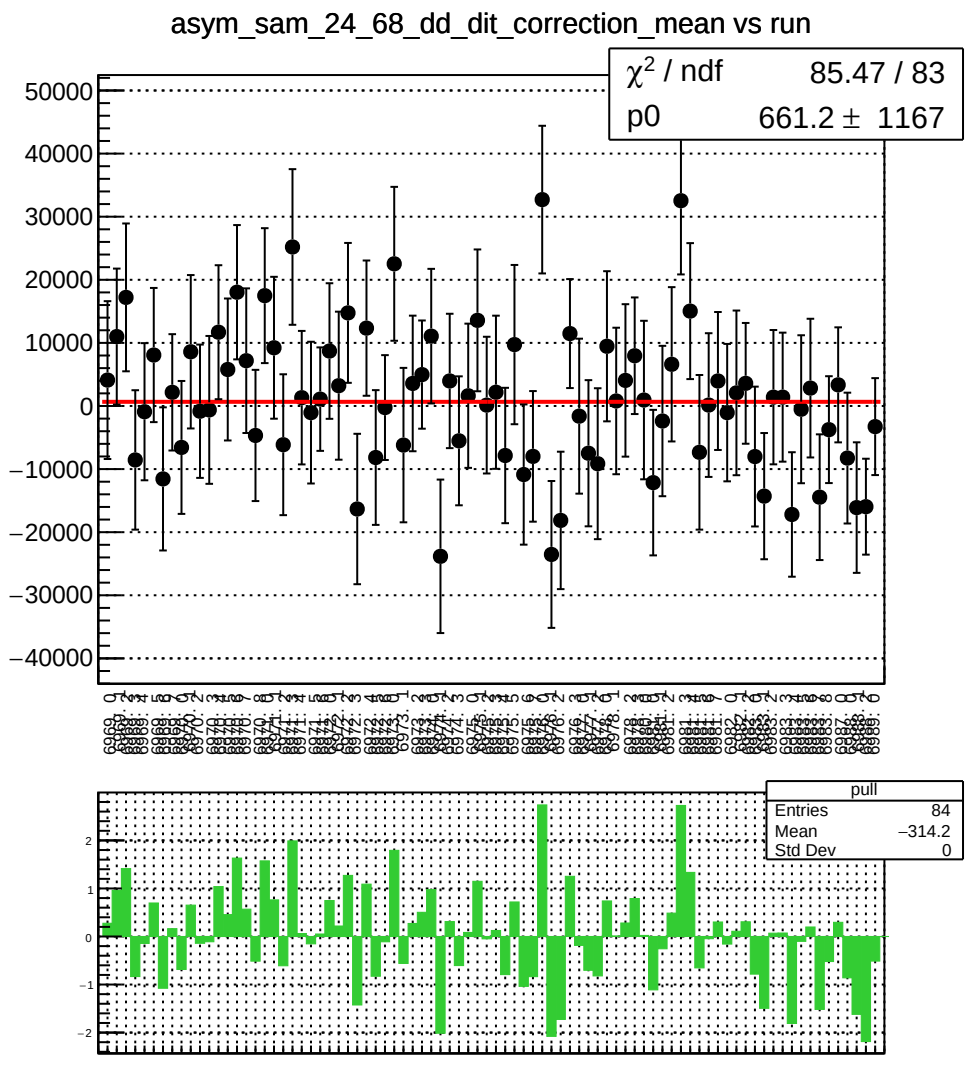

pull1D
Entries 84
Mean 0.01925
Std Dev 1.009

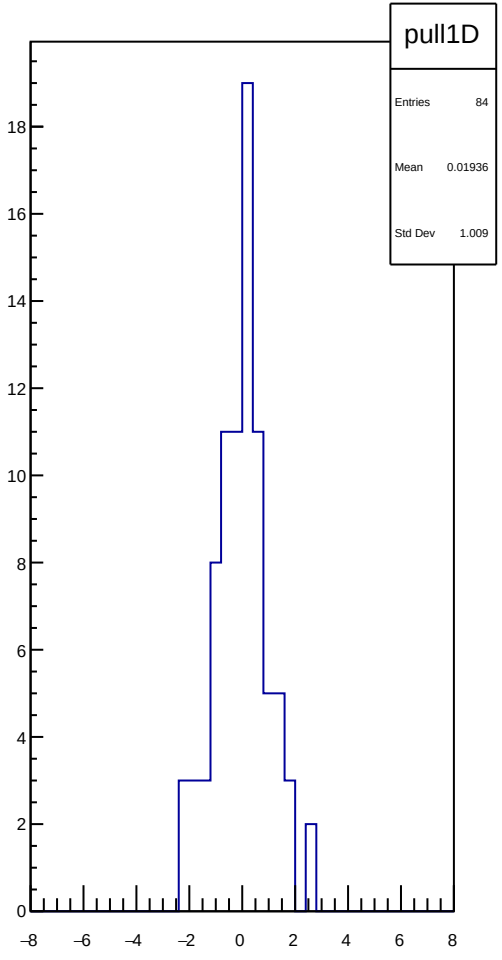

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 7641 / 83
p0 1057 ± 0.8186
1250
1200
1150
1100
1050
1000
950
900

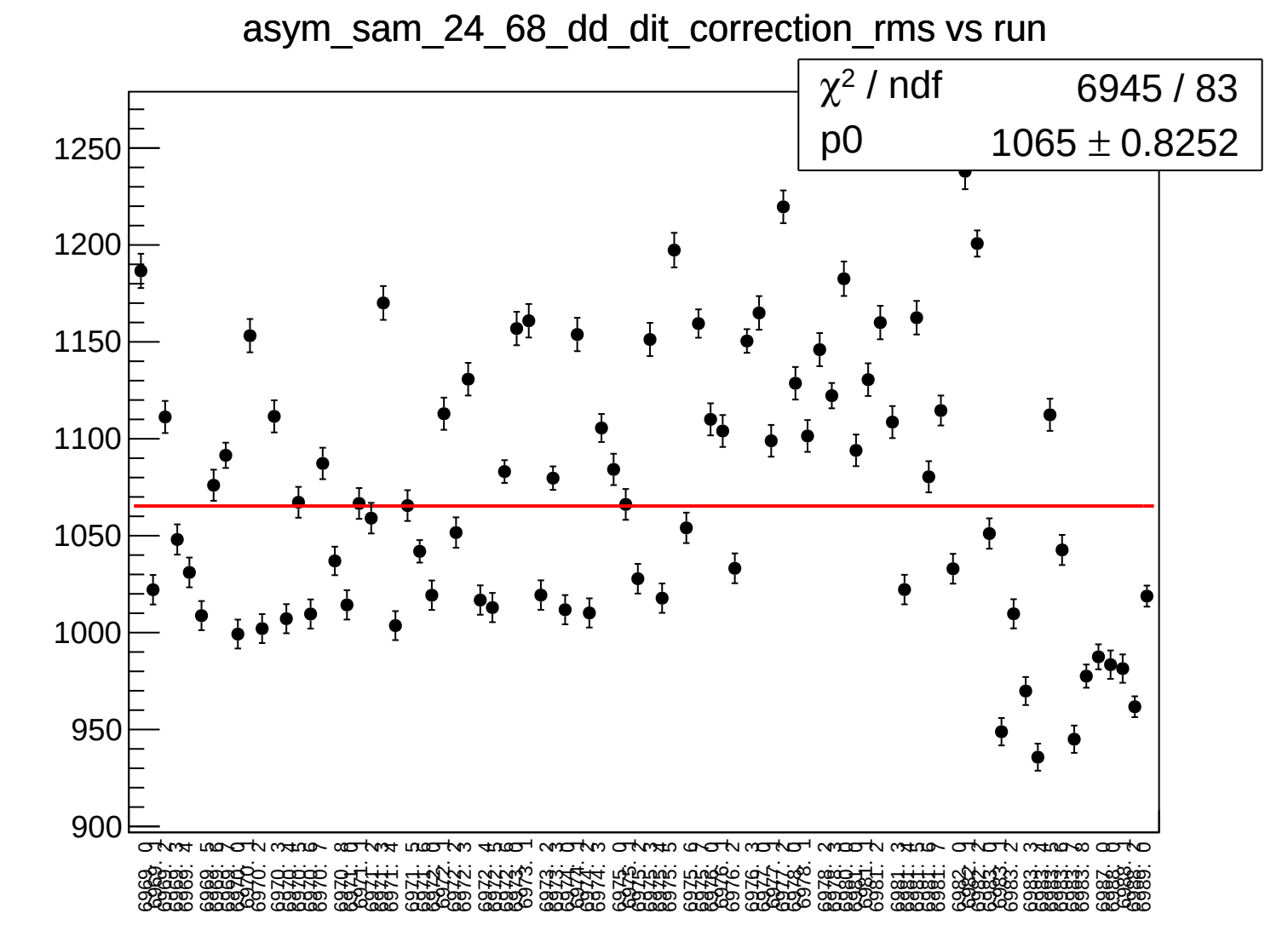

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 85.49 / 83
p0 −81.11 ± 94
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 3.493
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

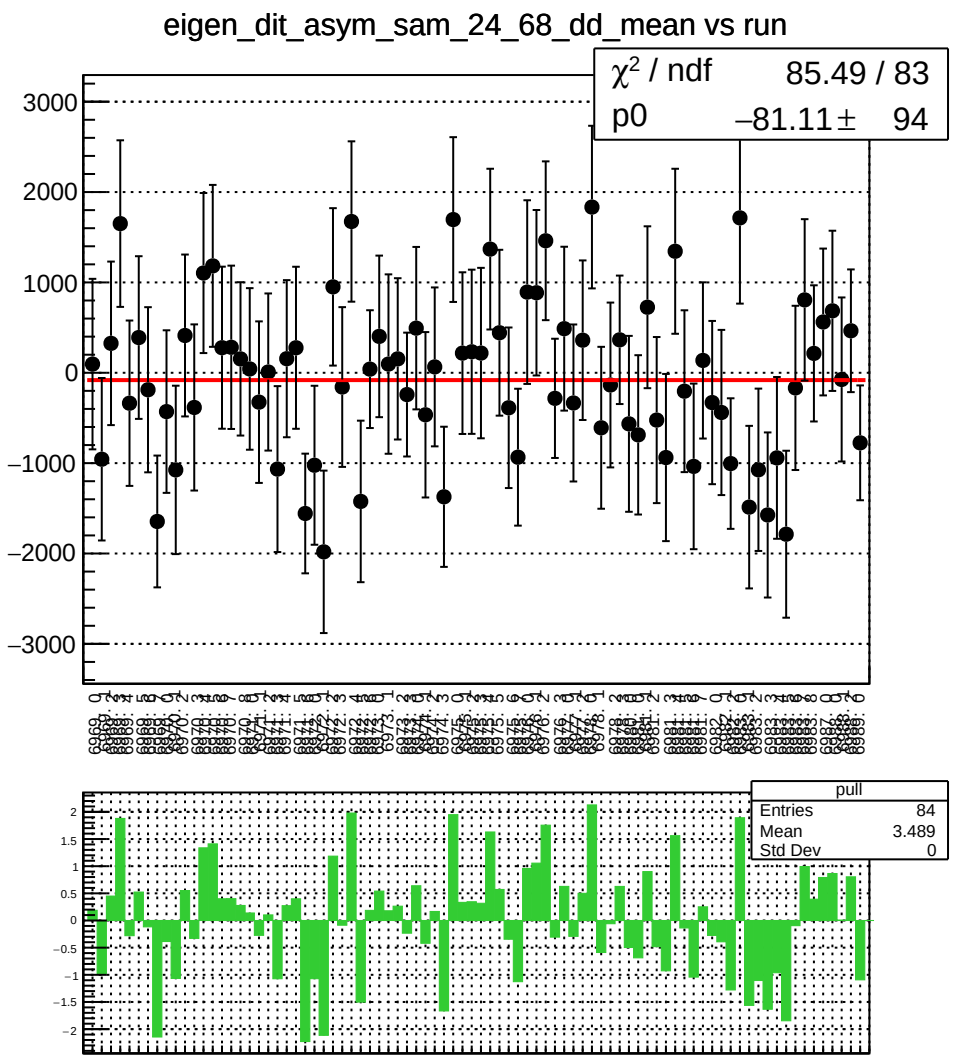

pull1D
Entries 84
Mean 0.02424
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

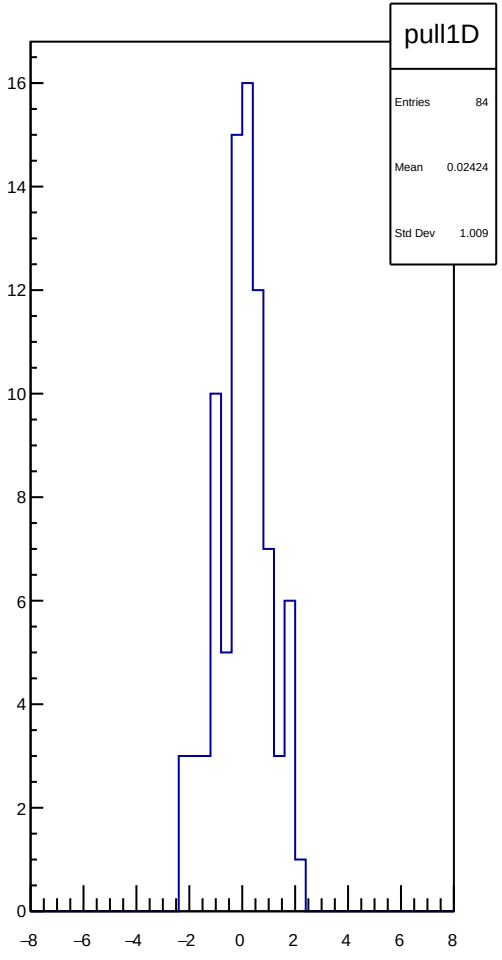

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1095 / 83
p0 85.96 ± 0.06647
98
96
94
92
90
88
86
84
82

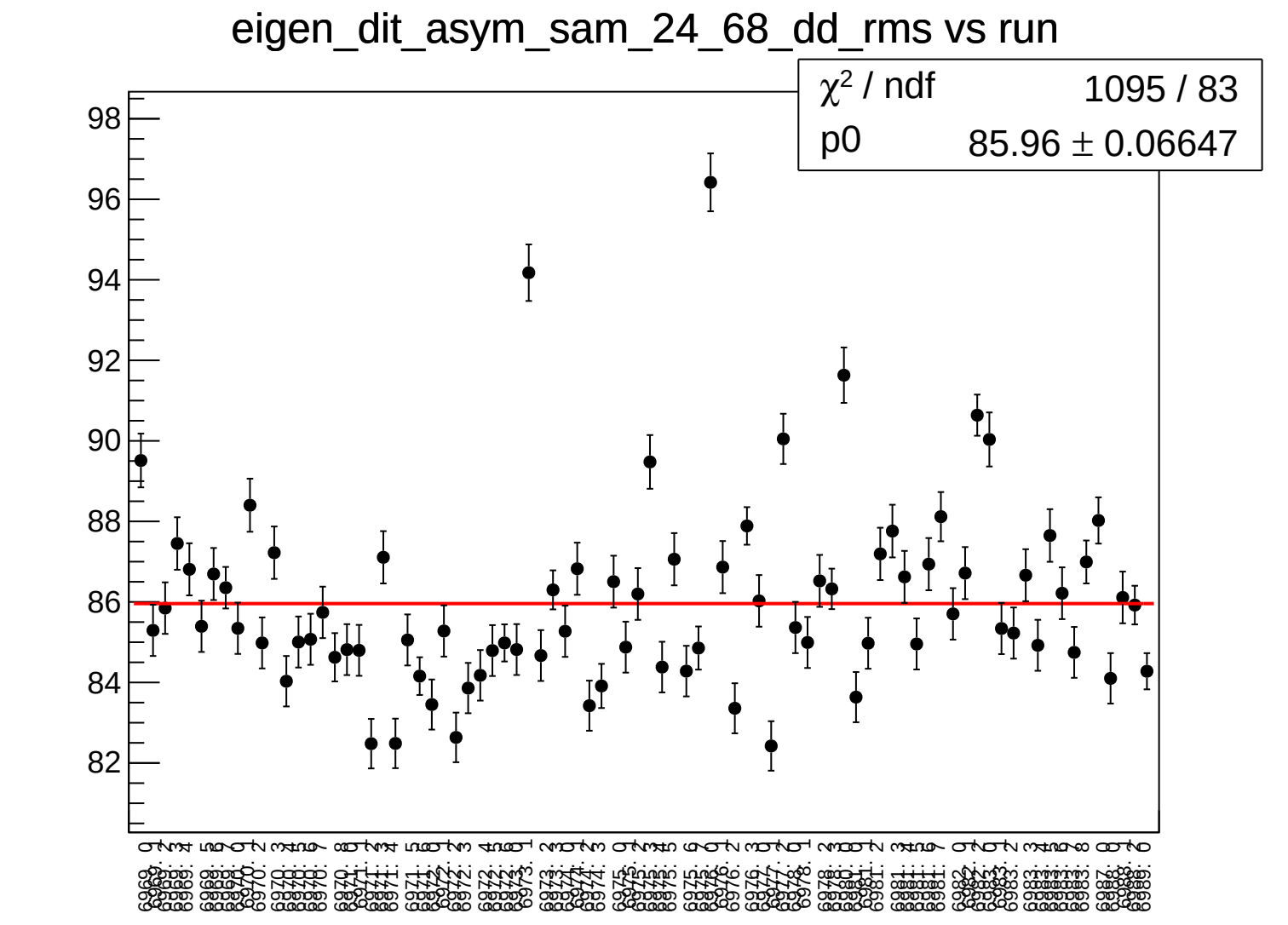

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 85.47 / 83
p0 661.2 ± 1167
pull
Entries 84
Mean −314.2
Std Dev 0

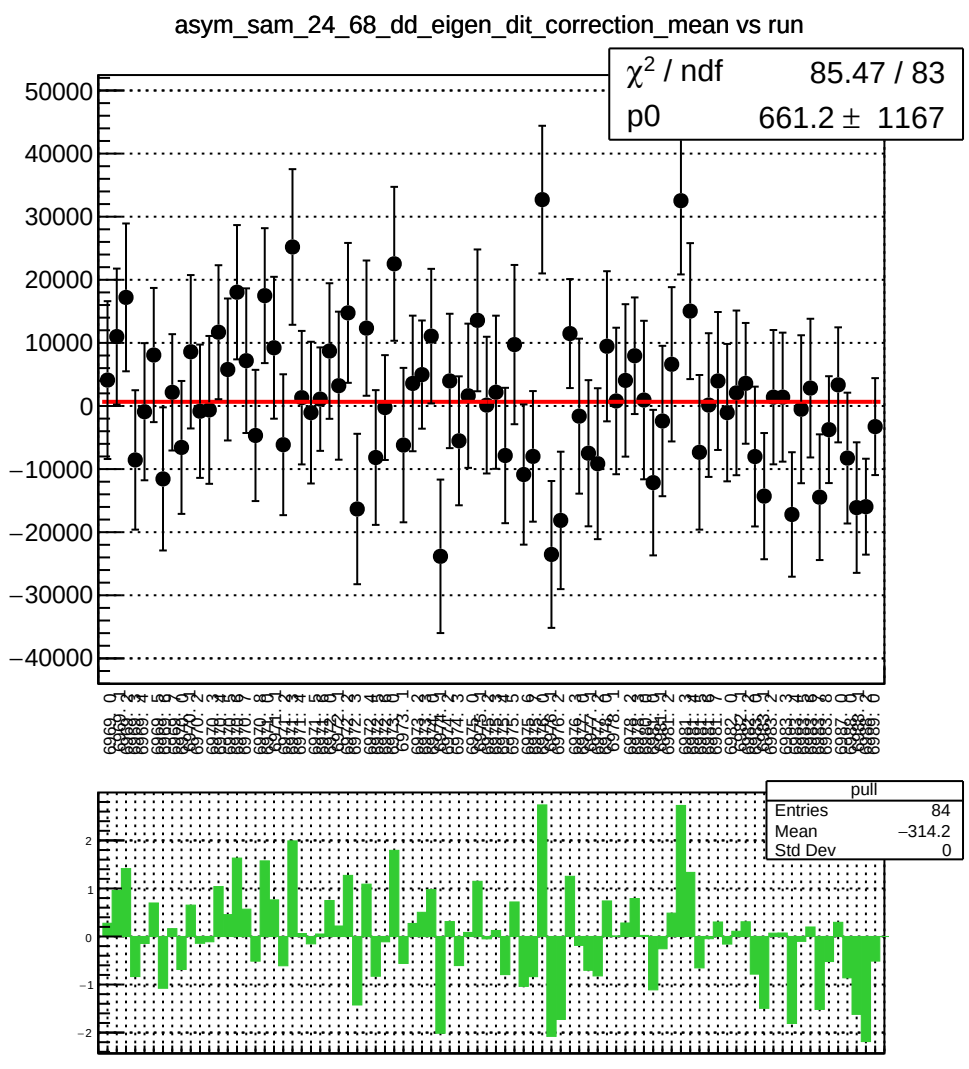

pull1D
Entries 84
Mean 0.01936
Std Dev 1.009

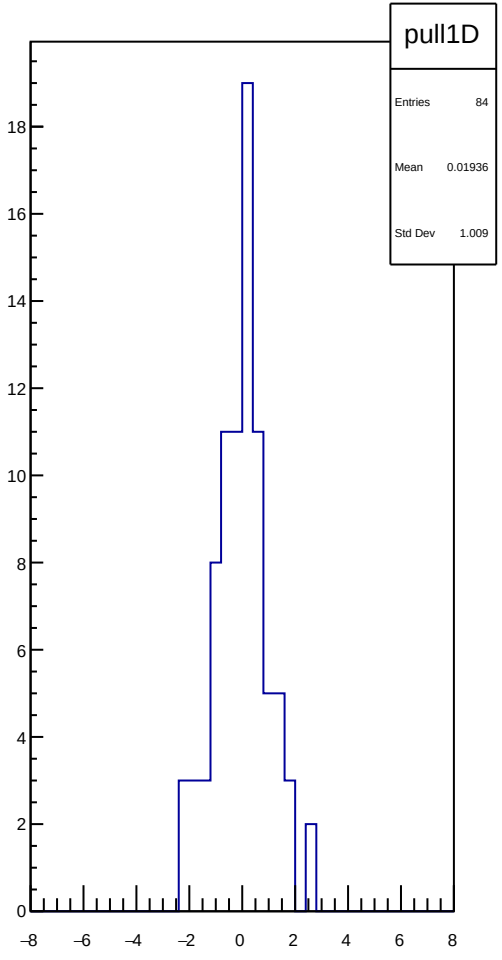

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 6945 / 83
p0 1065 ± 0.8252
1250
1200
1150
1100
1050
1000
950
900

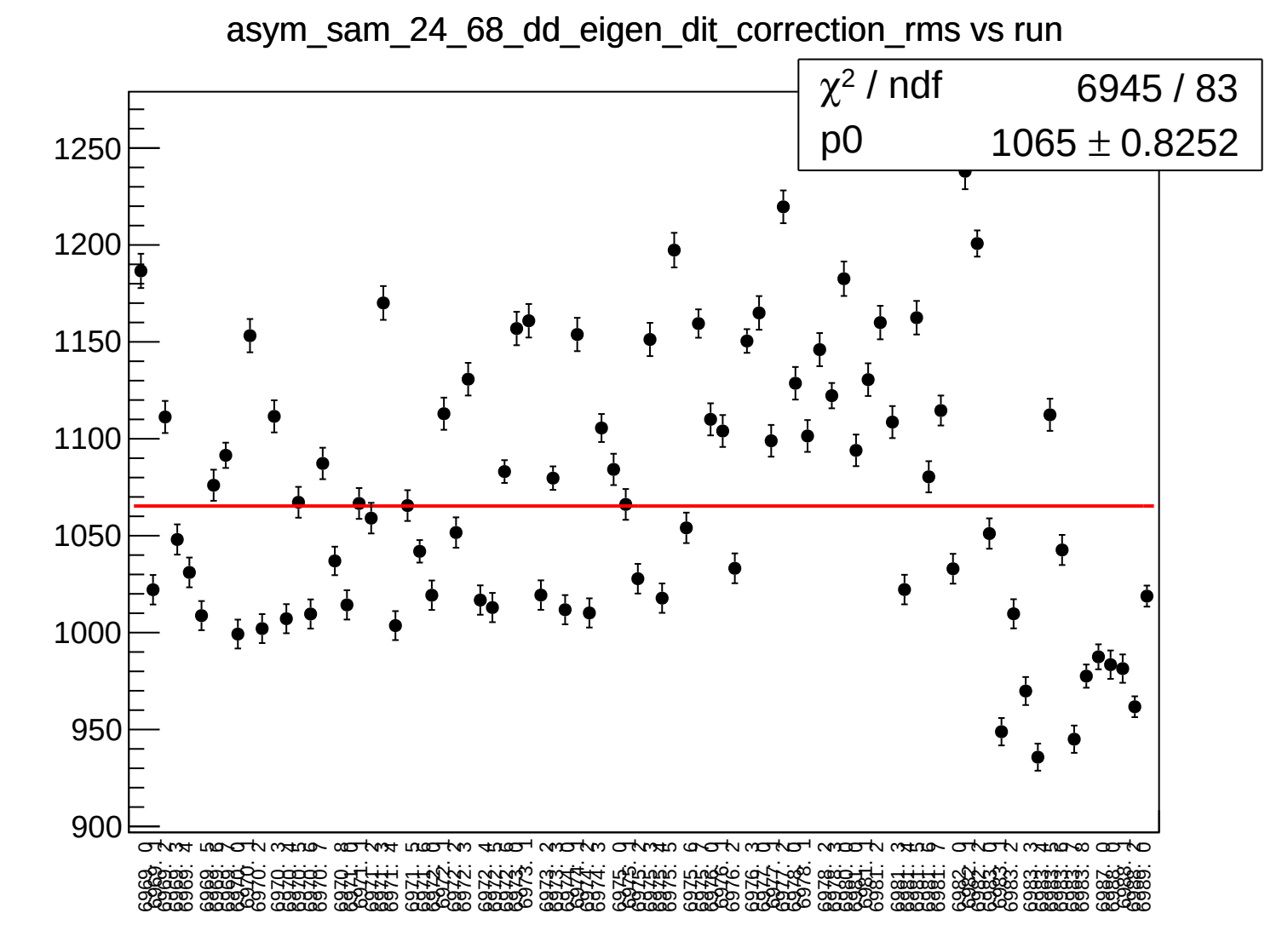

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 85.49 / 83
p0 −81.11 ± 94
pull
Entries 84
Mean 3.489
Std Dev 0

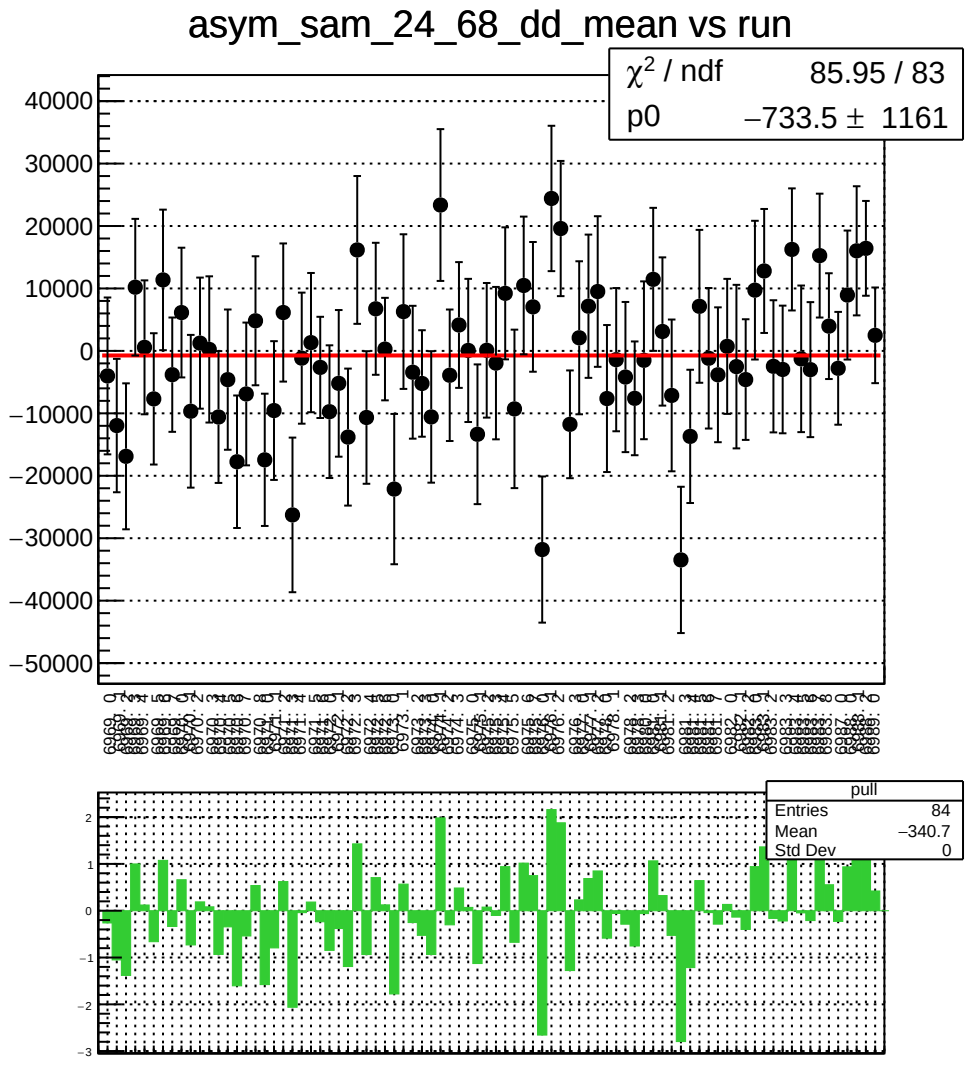

pull1D
Entries 84
Mean 0.02424
Std Dev 1.009

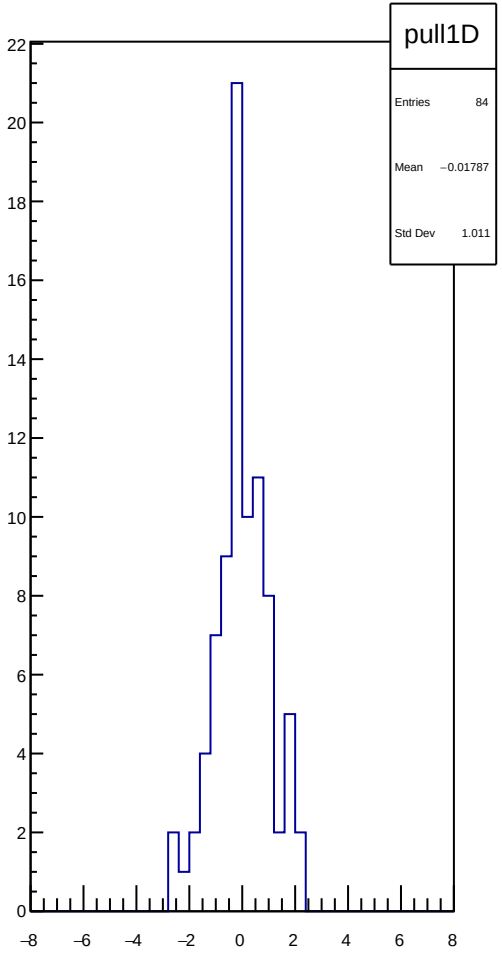

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1095 / 83
p0 85.96 ± 0.06647
98
96
94
92
90
88
86
84
82

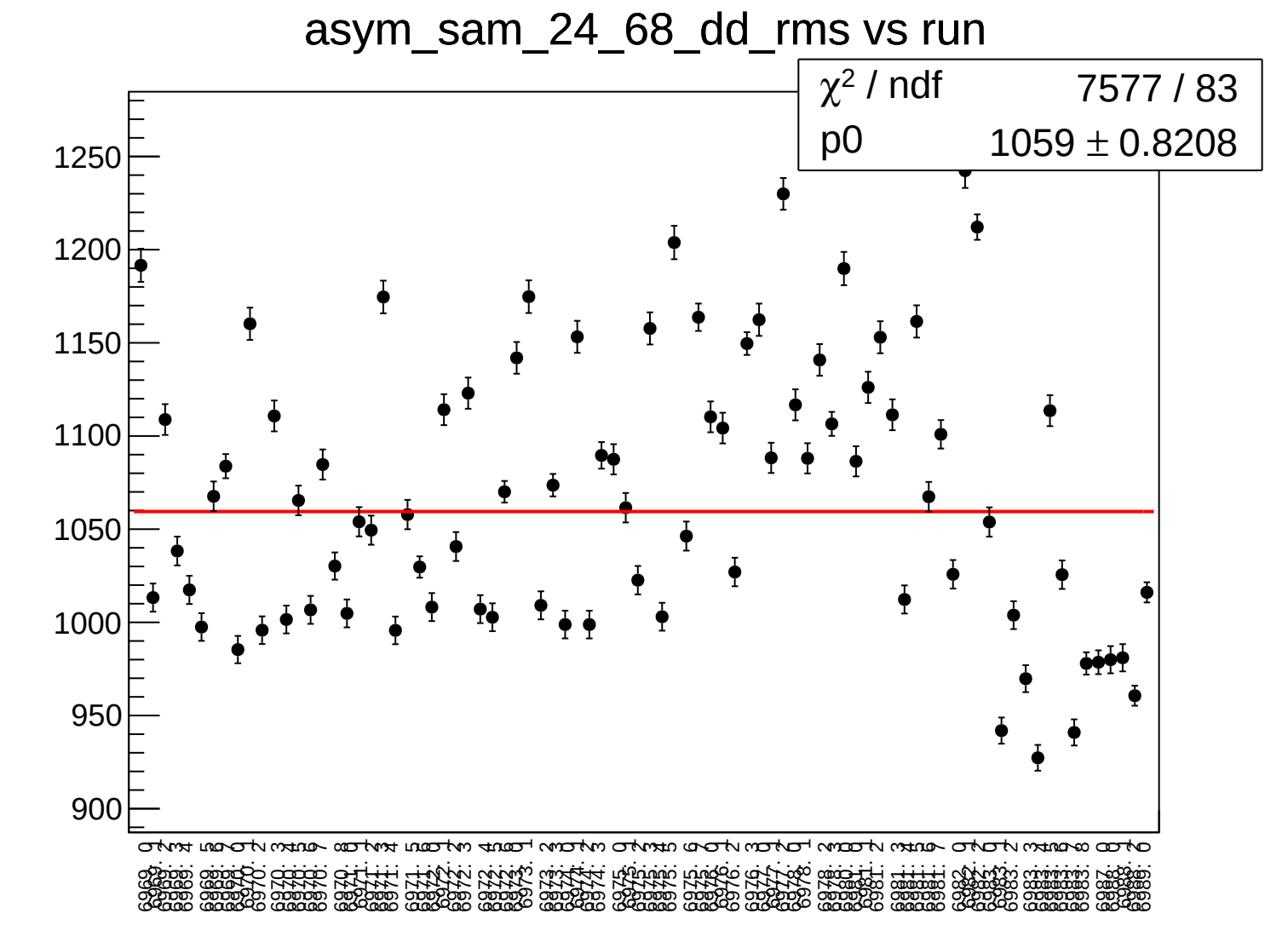

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.47 / 83
p0 661.2 ± 1167
pull
Entries 84
Mean −314.2
Std Dev 0

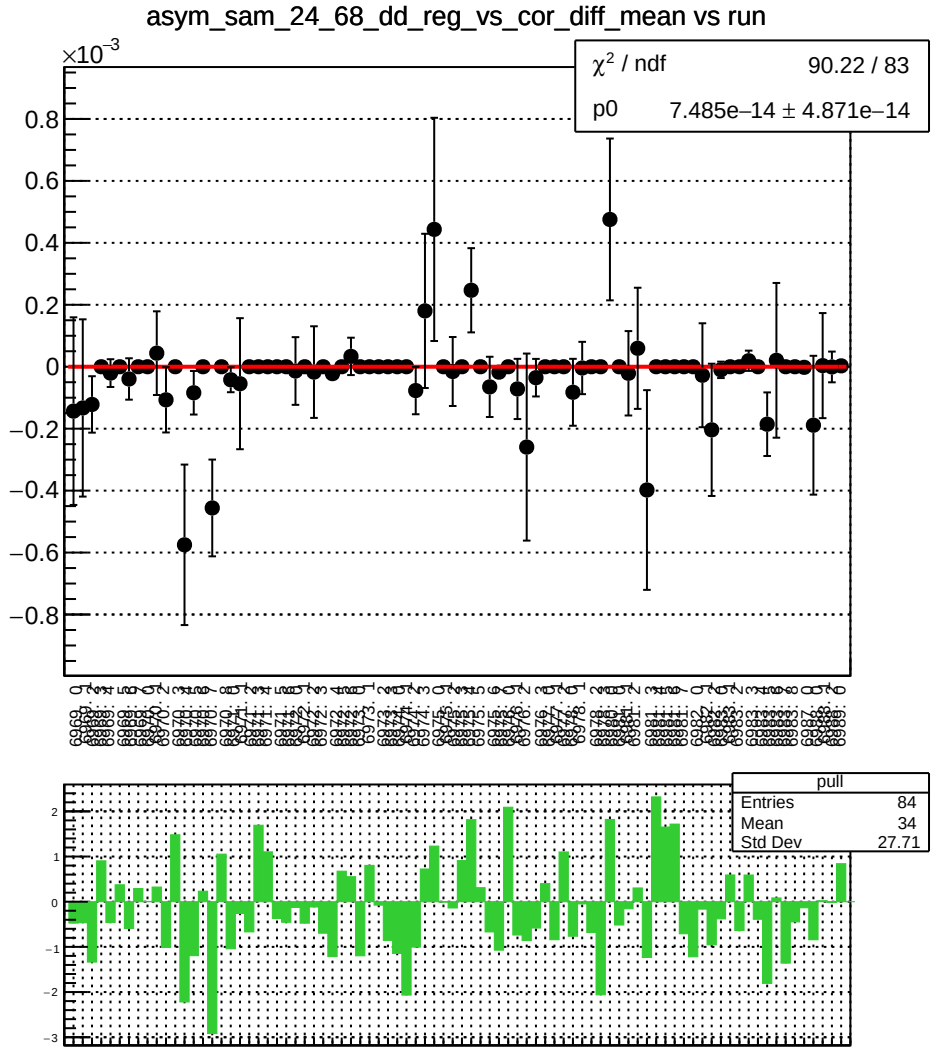

pull1D
Entries 84
Mean 0.01936
Std Dev 1.009

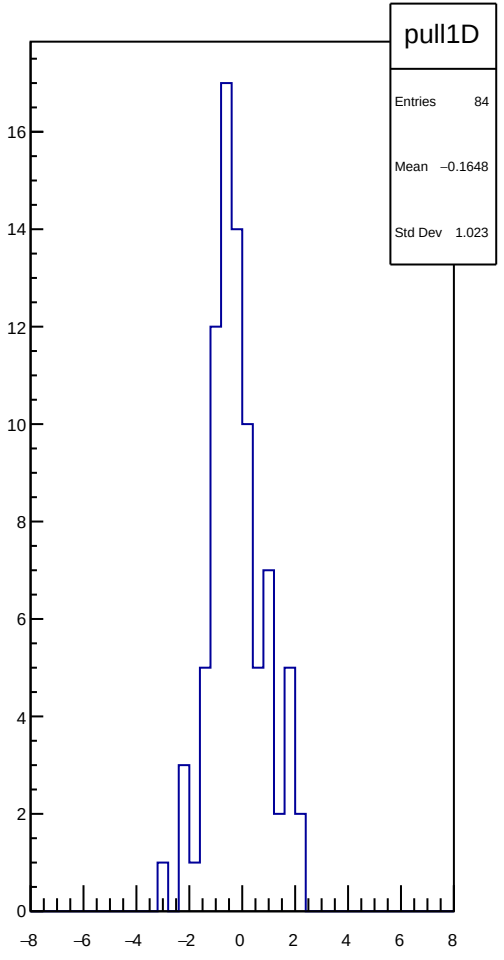

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 6945 / 83
p0 1065 ± 0.8252
1250
1200
1150
1100
1050
1000
950
900

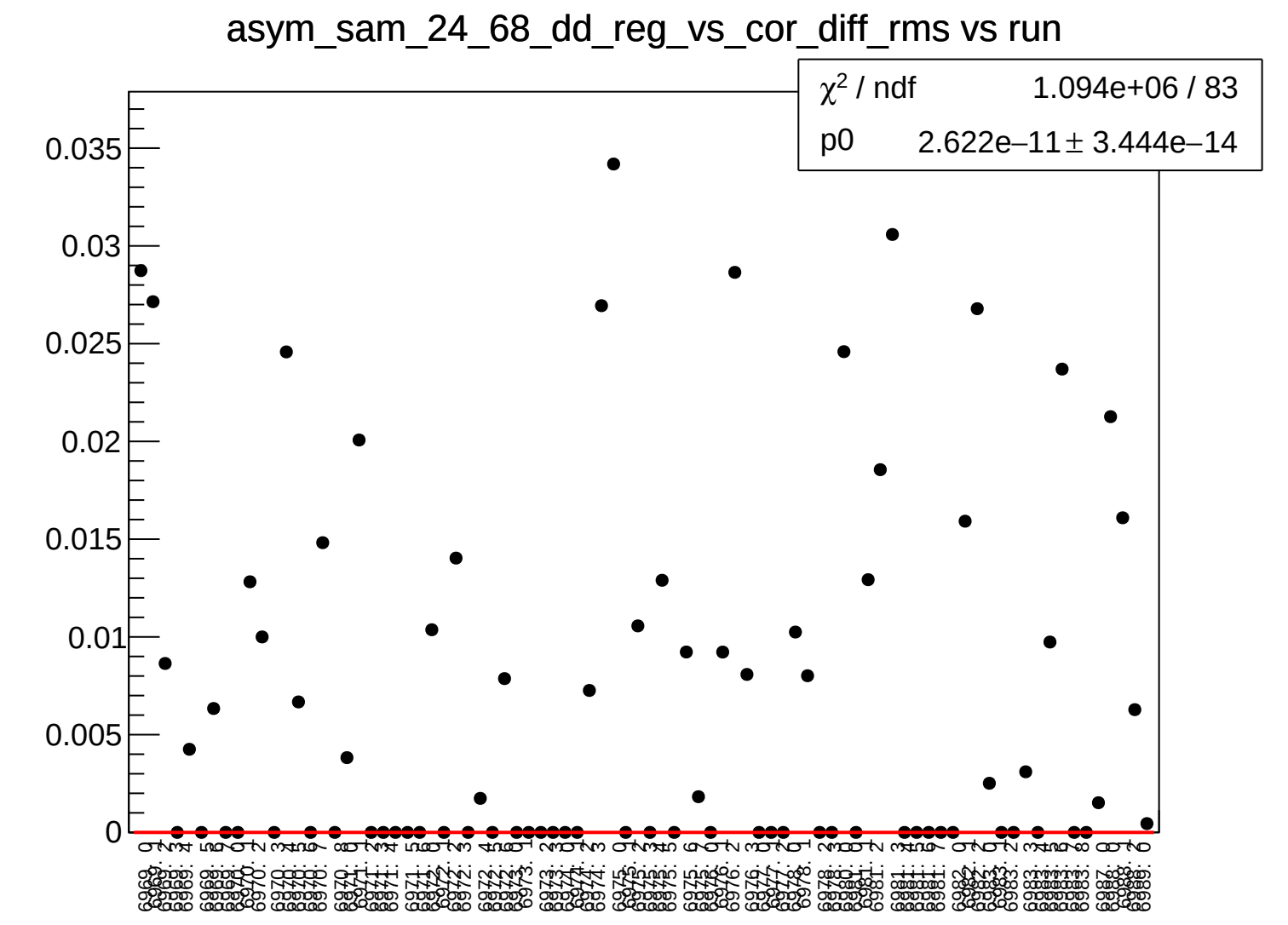

asym_sam_24_68_dd_mean vs run
χ² / ndf 85.95 / 83
p0 −733.5 ± 1161
pull
Entries 84
Mean −340.7
Std Dev 0

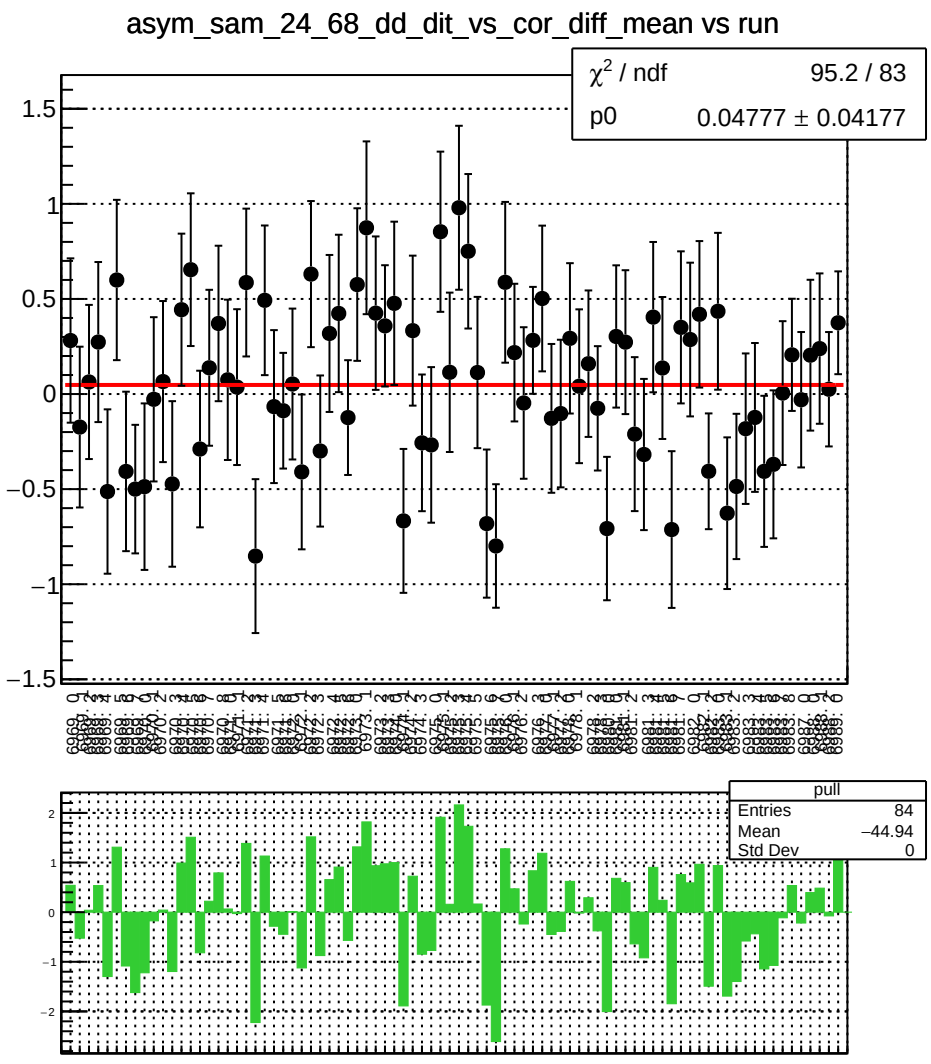

pull1D
Entries 84
Mean −0.01787
Std Dev 1.011

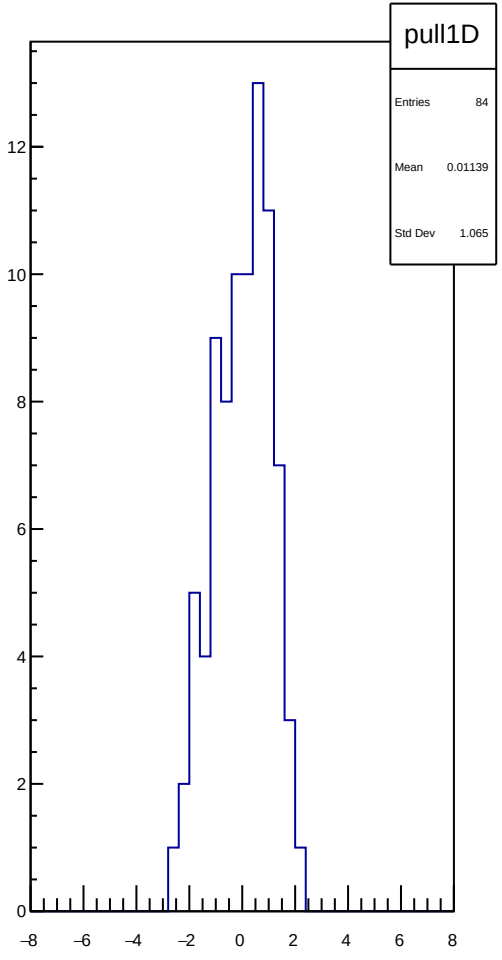

asym_sam_24_68_dd_rms vs run
χ² / ndf 7577 / 83
p0 1059 ± 0.8208
1250
1200
1150
1100
1050
1000
950
900

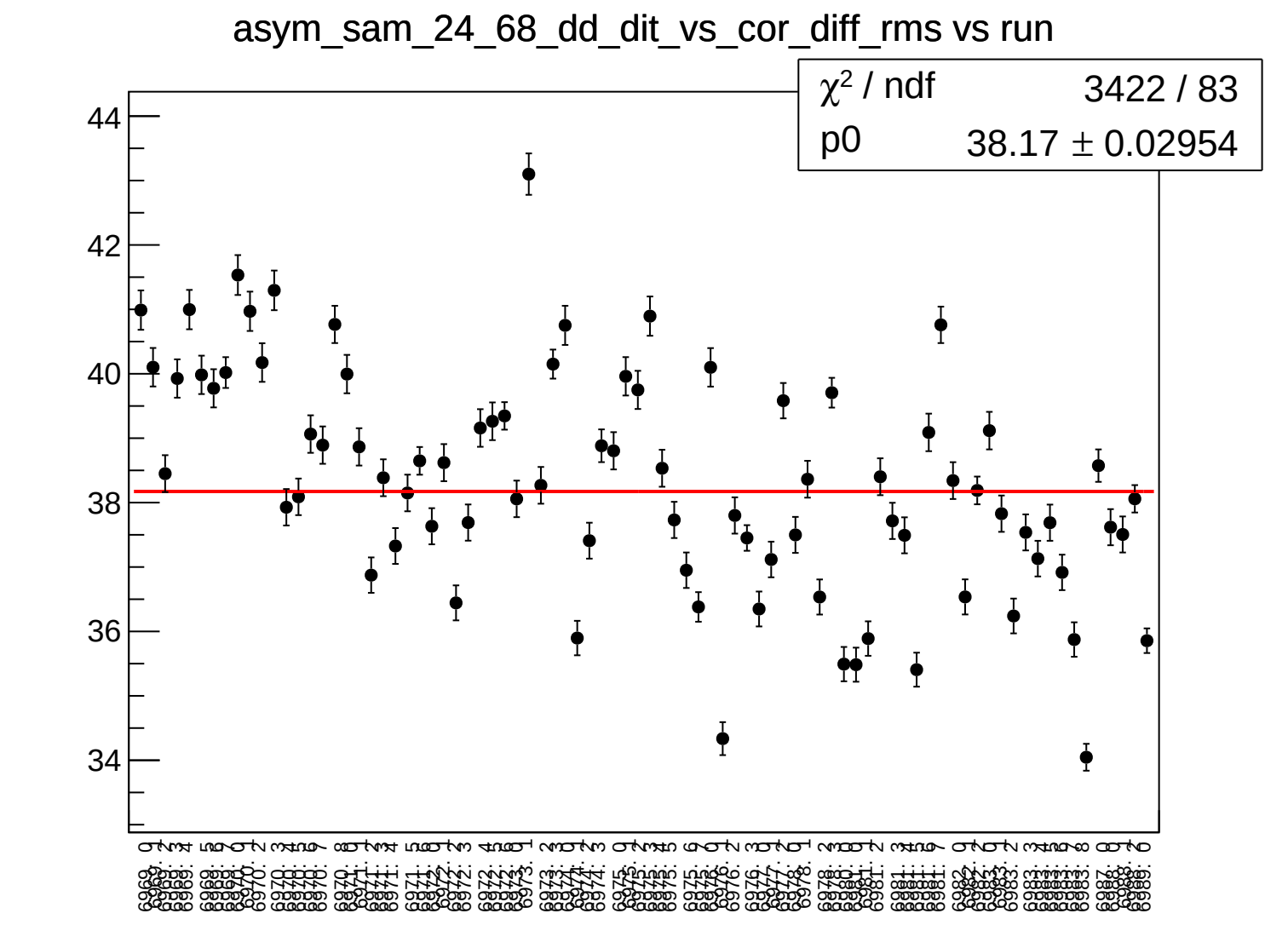

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 90.22 / 83
p0 7.485e−14 ± 4.871e−14
pull
Entries 84
Mean 34
Std Dev 27.71

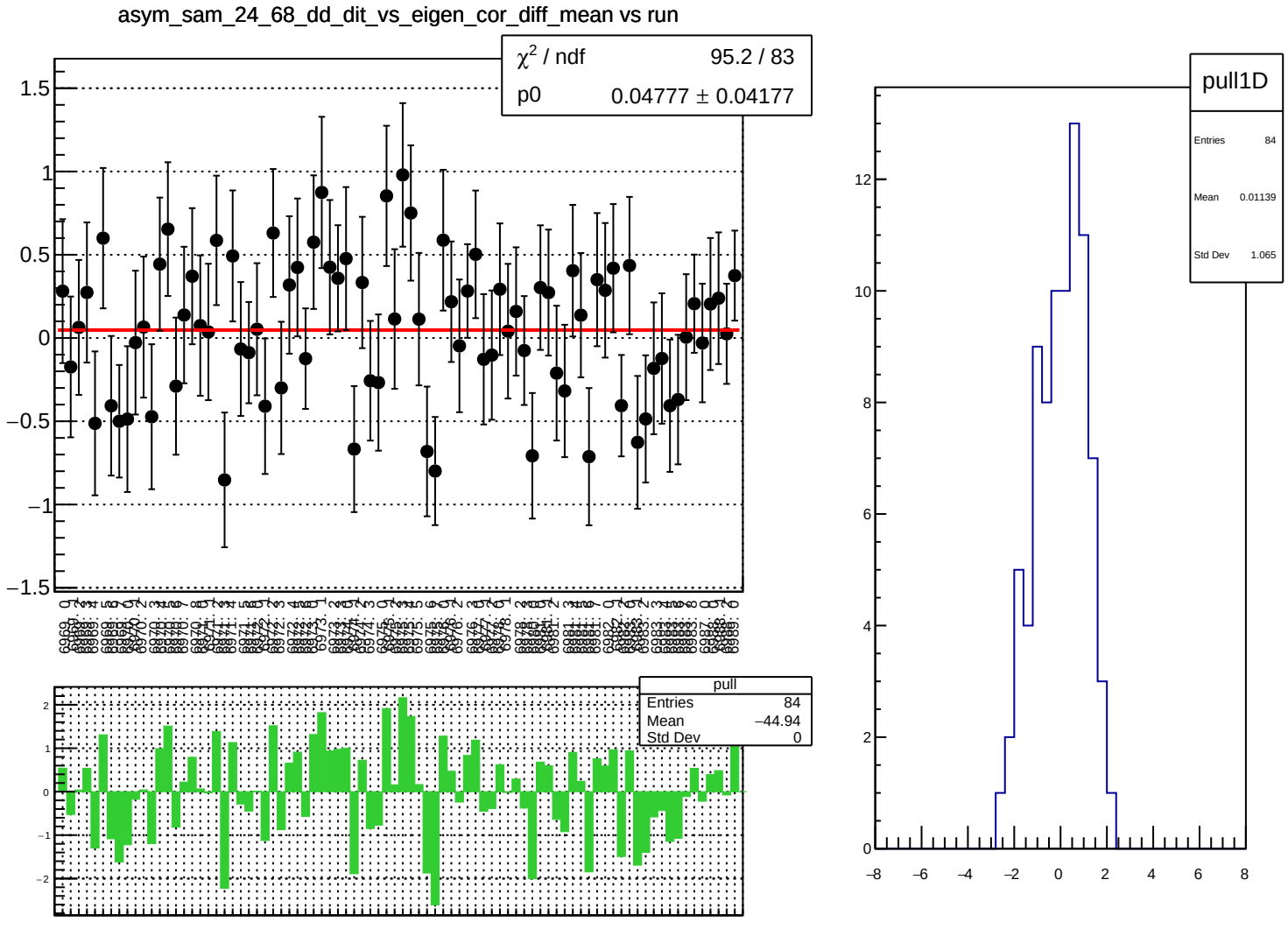

pull1D
Entries 84
Mean −0.1648
Std Dev 1.023

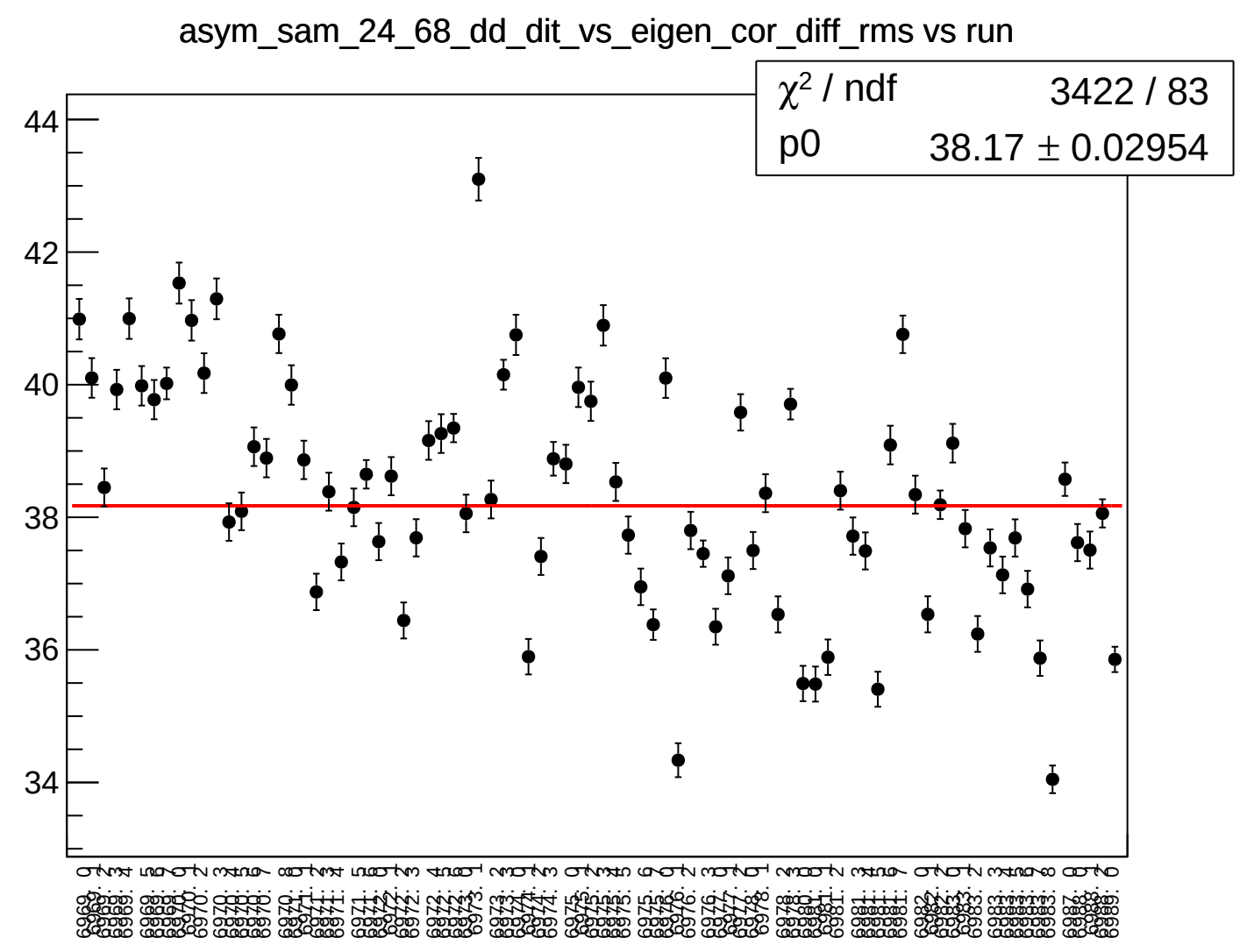

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.094e+06 / 83
p0 2.622e−11 ± 3.444e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

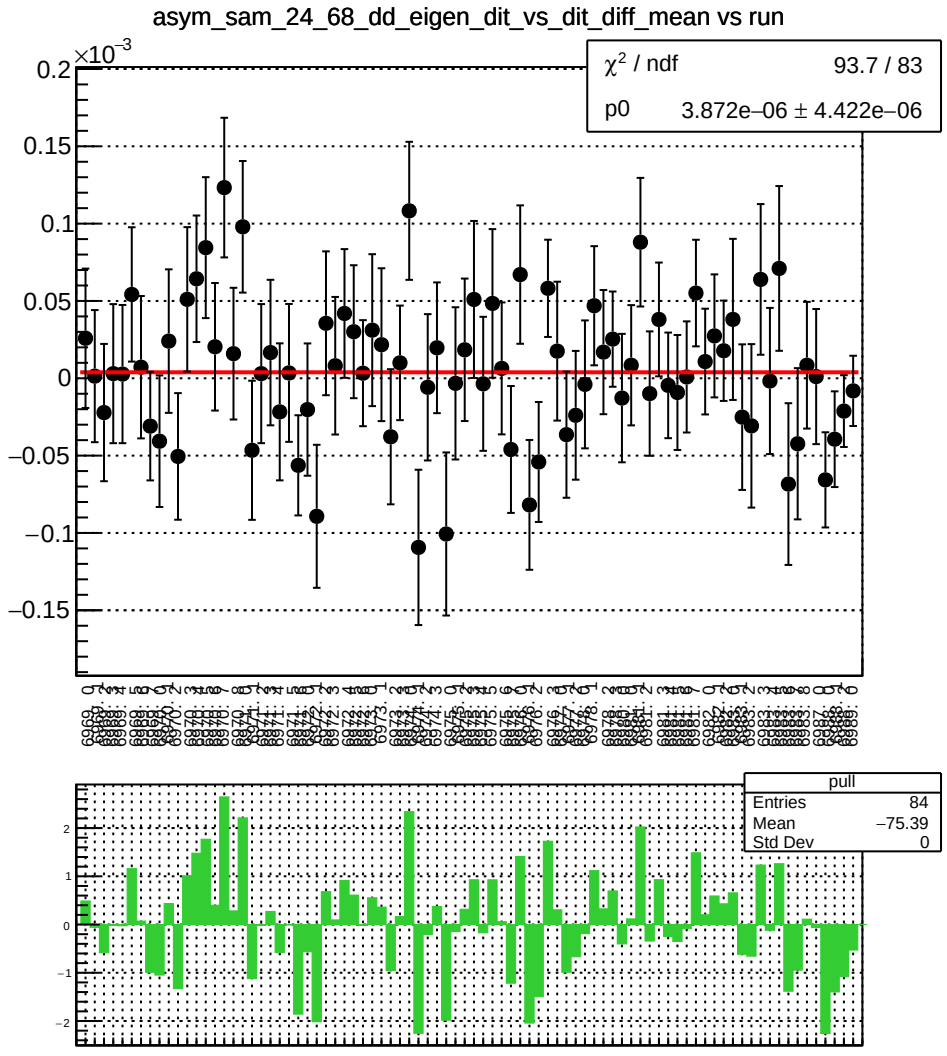

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.2 / 83
p0 0.04777 ± 0.04177
pull
Entries 84
Mean −44.94
Std Dev 0

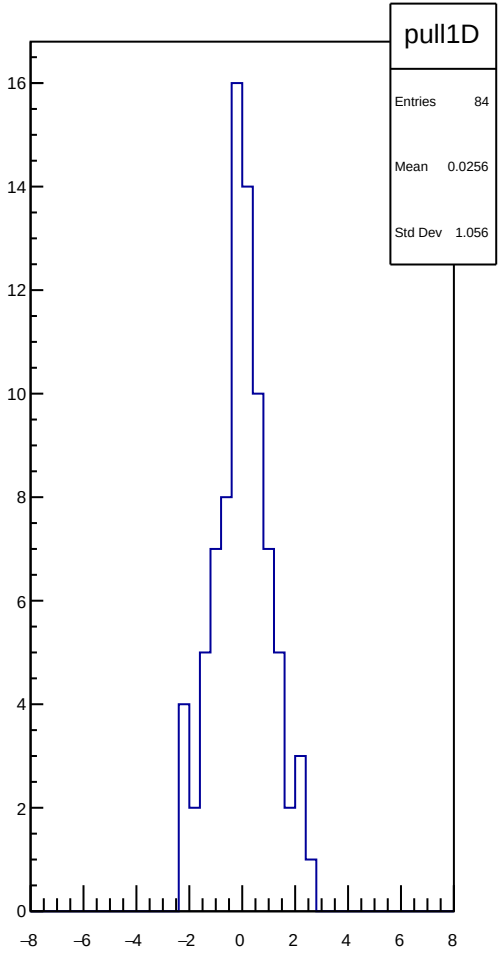

pull1D
Entries 84
Mean 0.01139
Std Dev 1.065

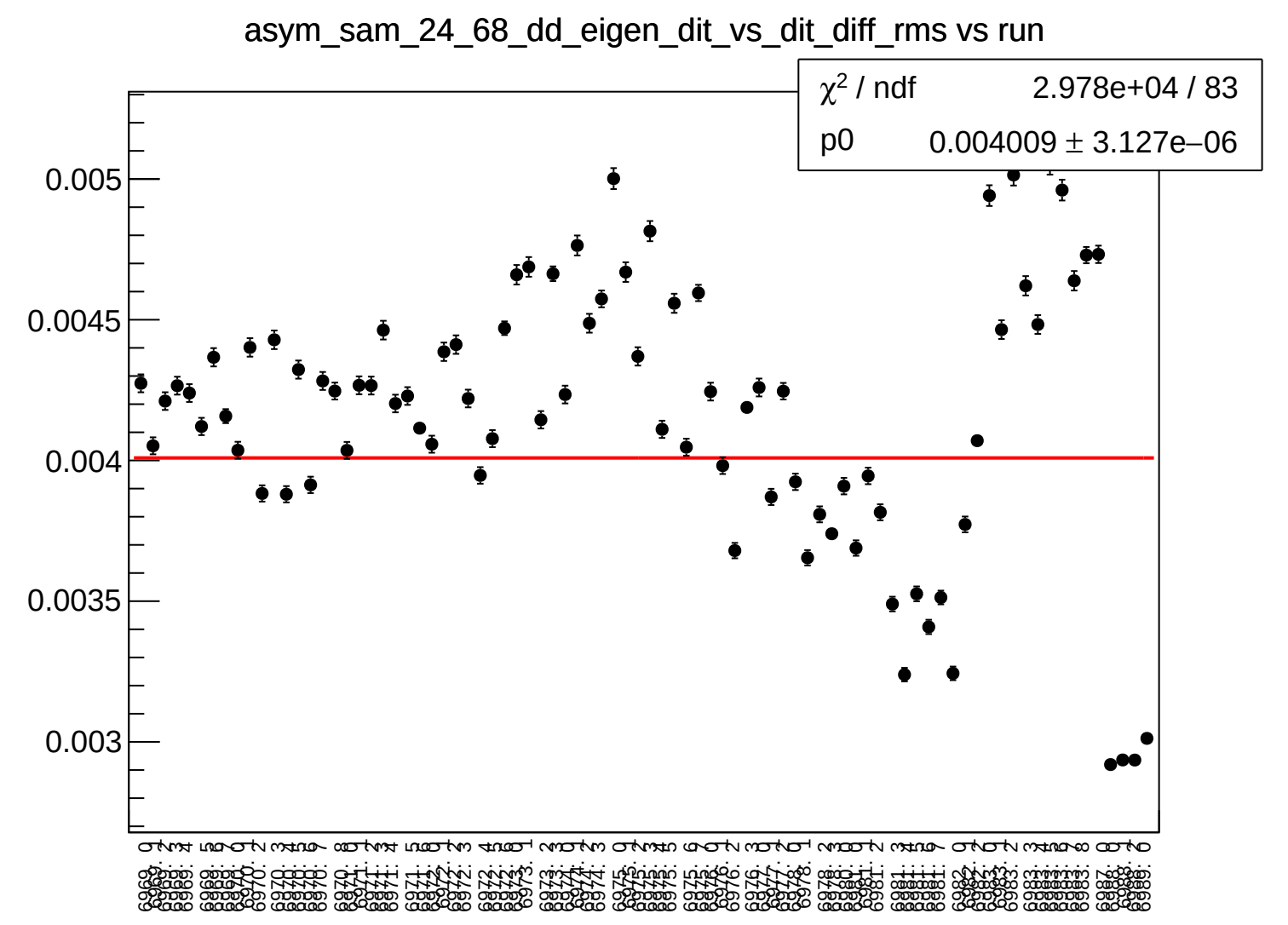

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3422 / 83
p0 38.17 ± 0.02954
44
42
40
38
36
34

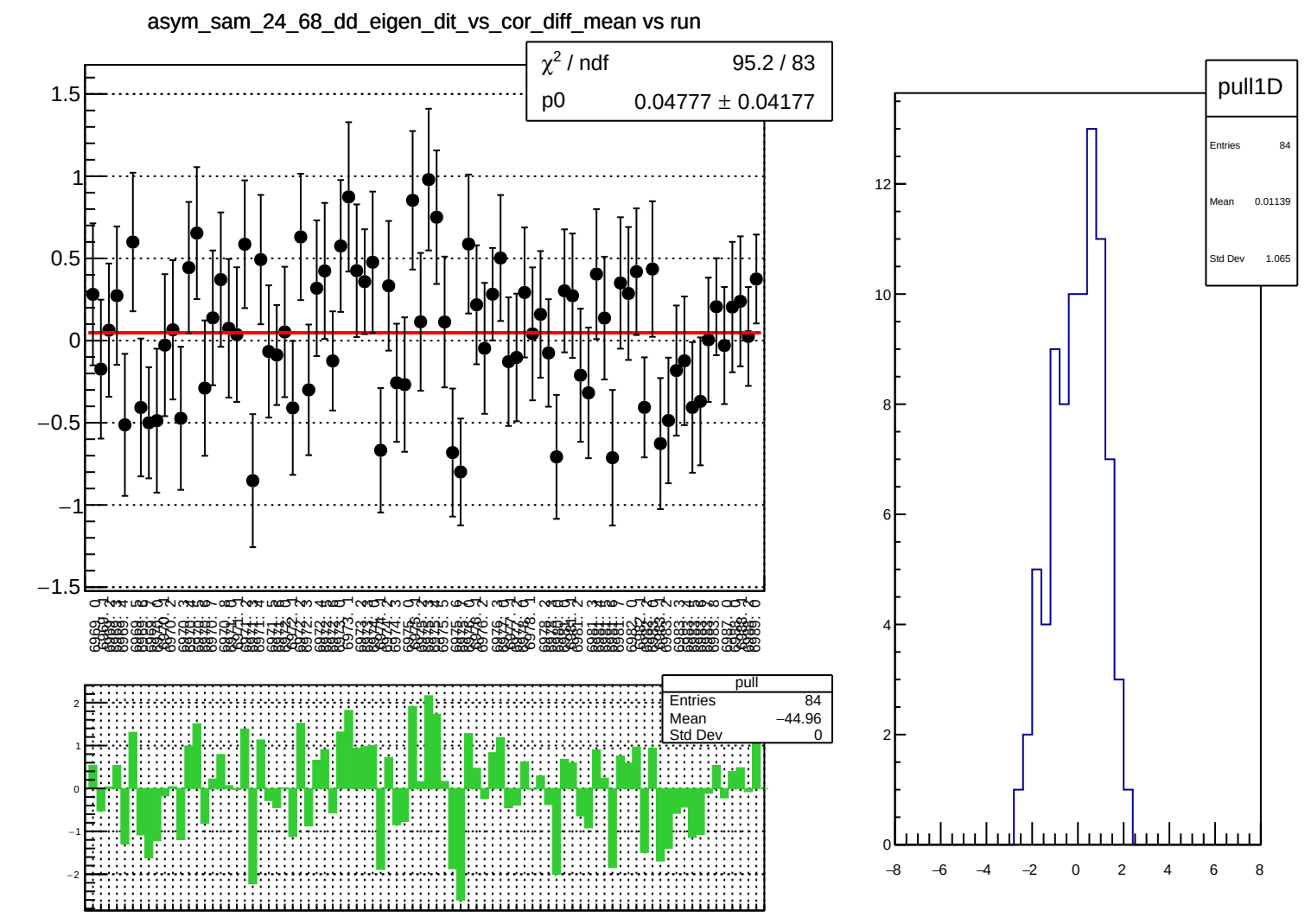

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.2 / 83
p0 0.04777 ± 0.04177
pull
Entries 84
Mean −44.94
Std Dev 0
pull1D
Entries 84
Mean 0.01139
Std Dev 1.065

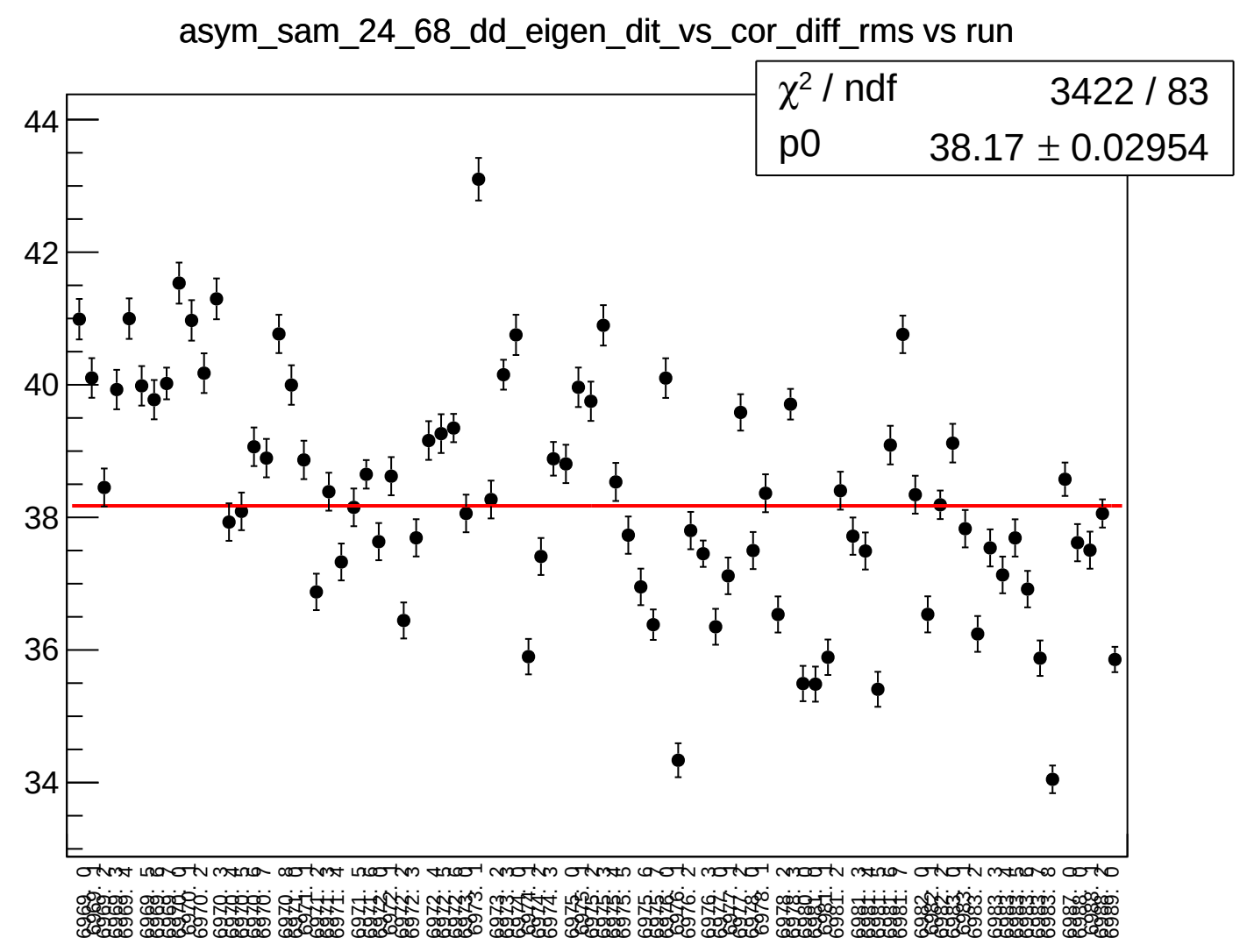

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3422 / 83
p0 38.17 ± 0.02954
44
42
40
38
36
34

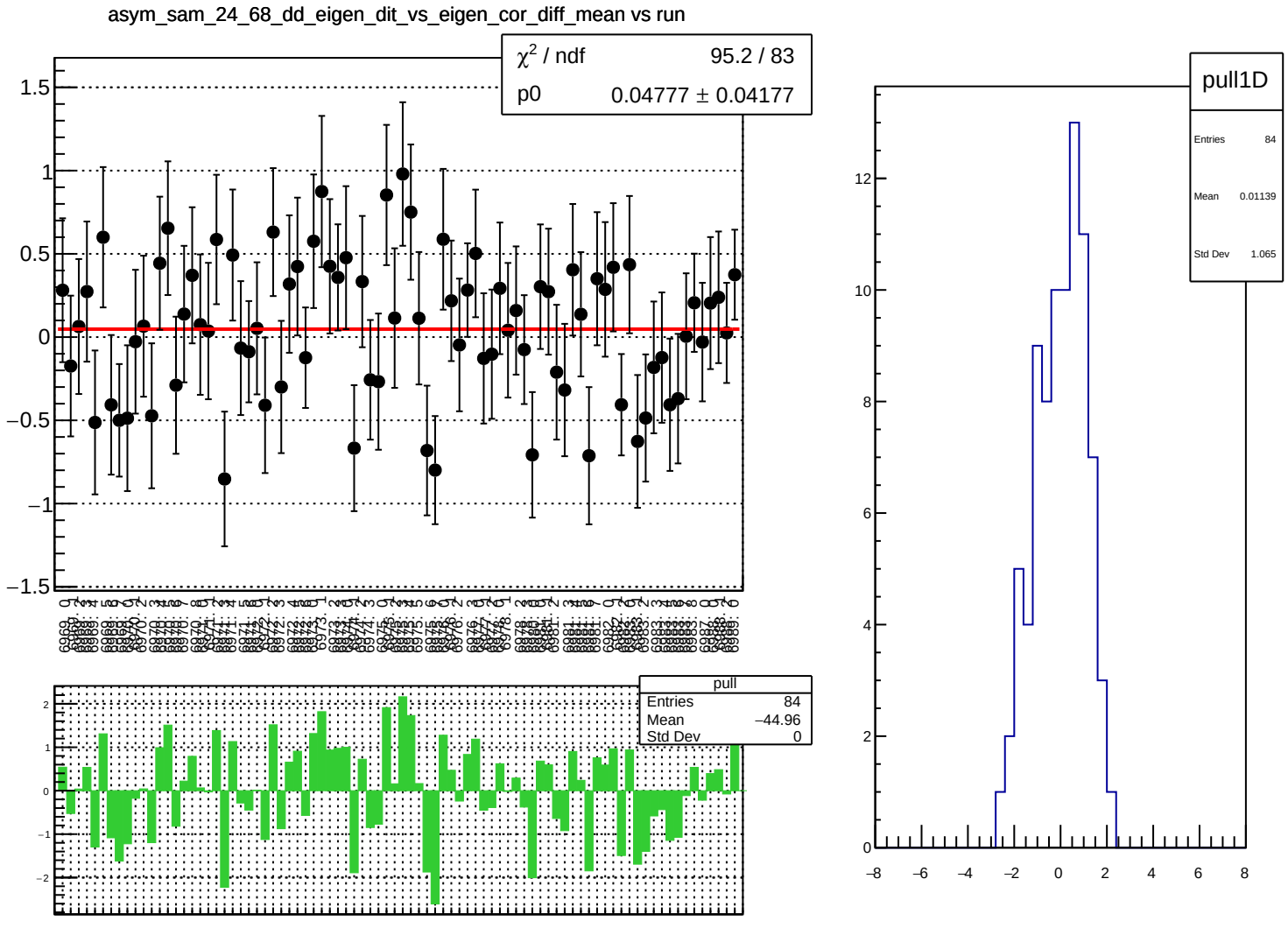

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.7 / 83
p0 3.872e−06 ± 4.422e−06
pull
Entries 84
Mean −75.39
Std Dev 0

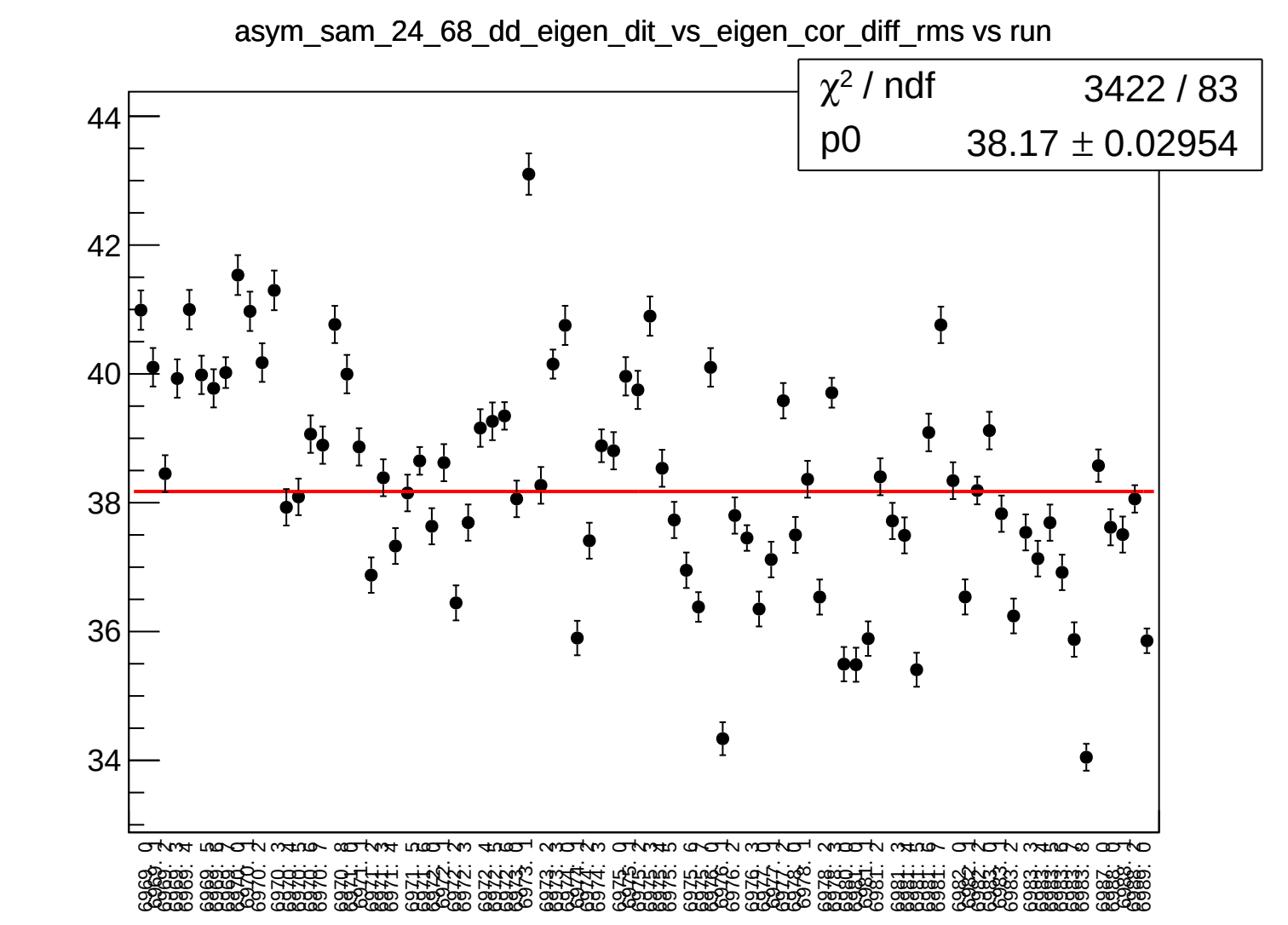

pull1D
Entries 84
Mean 0.0256
Std Dev 1.056

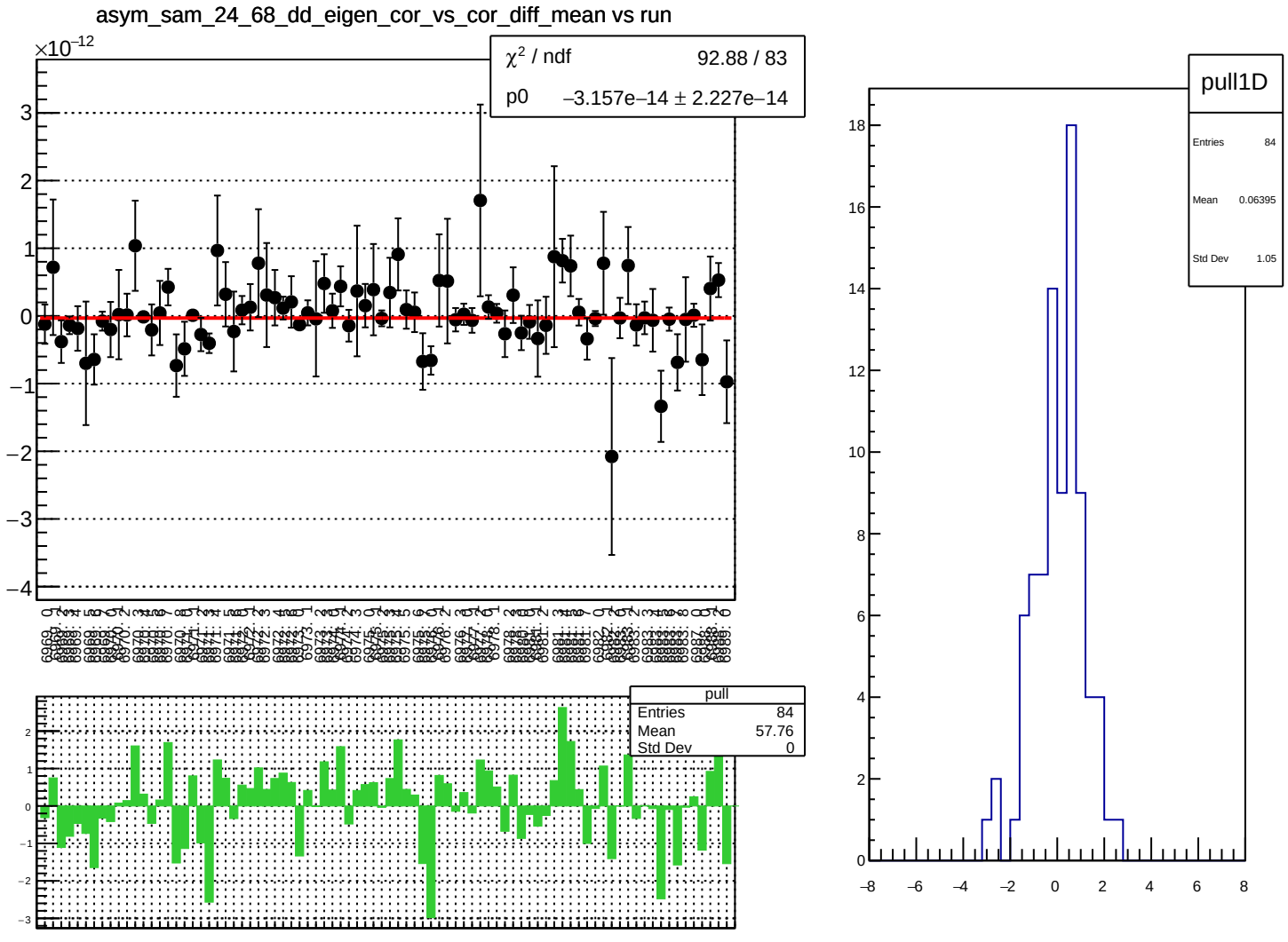

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.978e+04 / 83
p0 0.004009 ± 3.127e−06
0.005
0.0045
0.004
0.0035
0.003

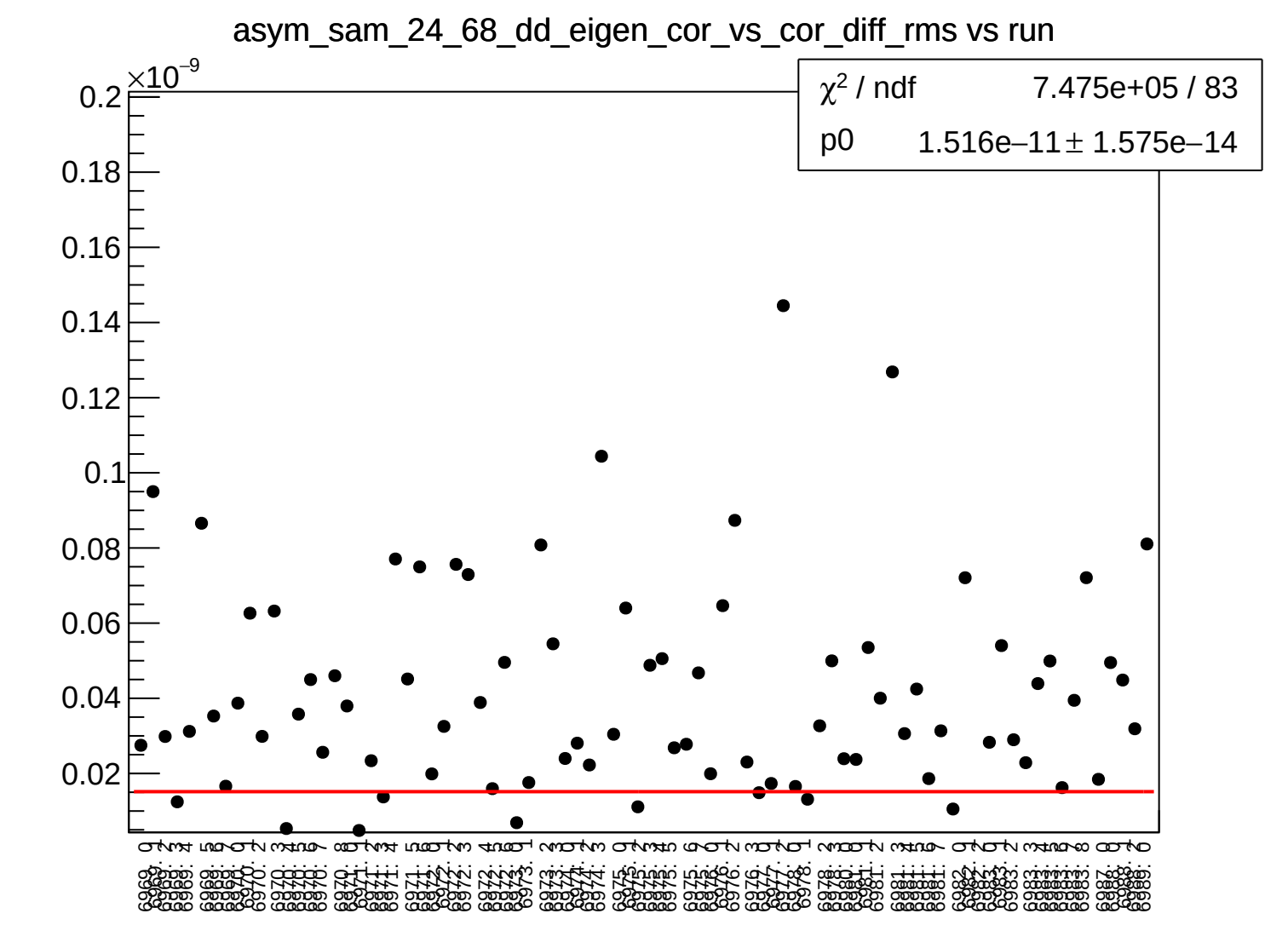

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.2 / 83
p0 0.04777 ± 0.04177
pull
Entries 84
Mean −44.96
Std Dev 0
pull1D
Entries 84
Mean 0.01139
Std Dev 1.065

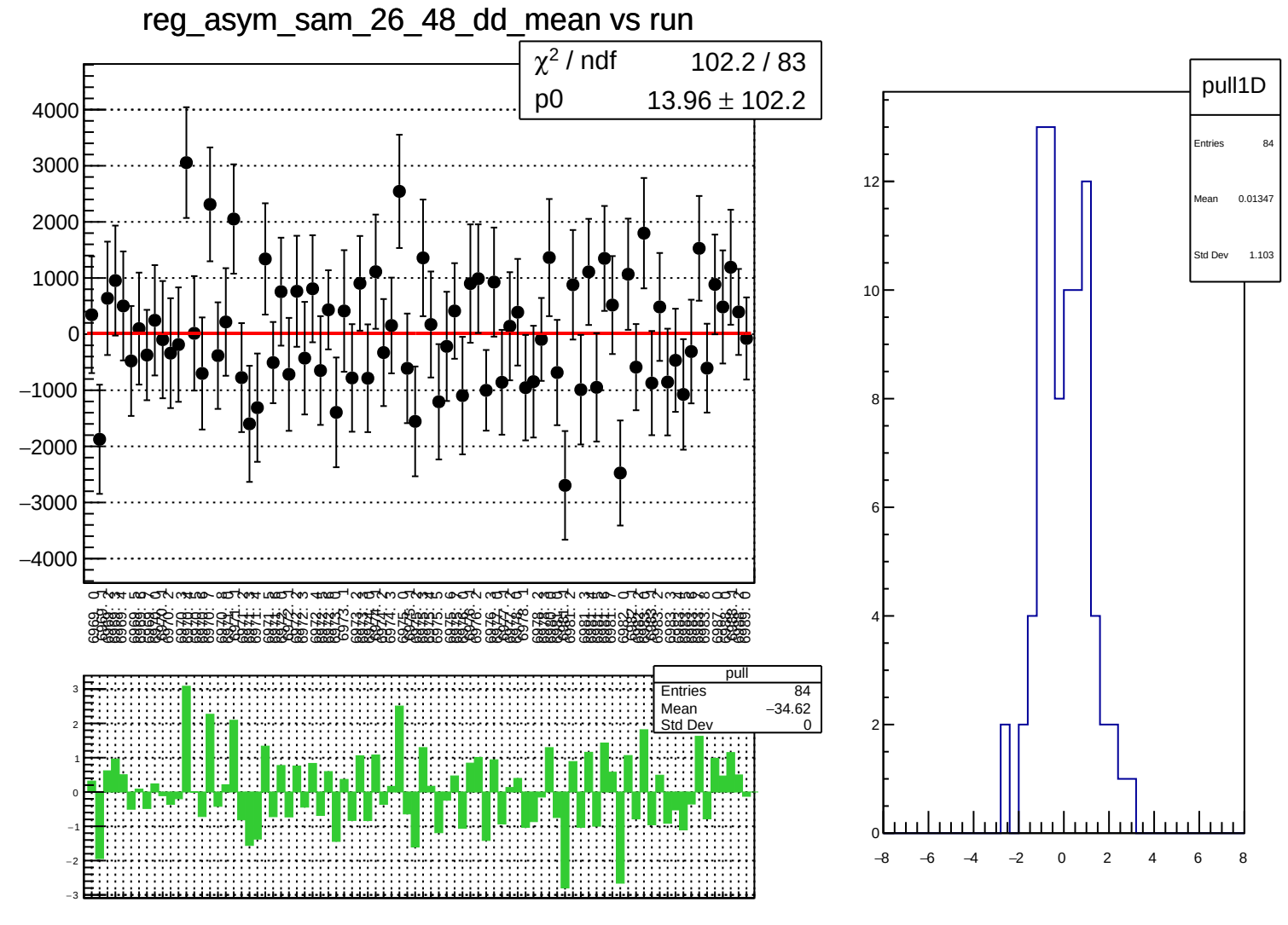

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3422 / 83
p0 38.17 ± 0.02954
44
42
40
38
36
34

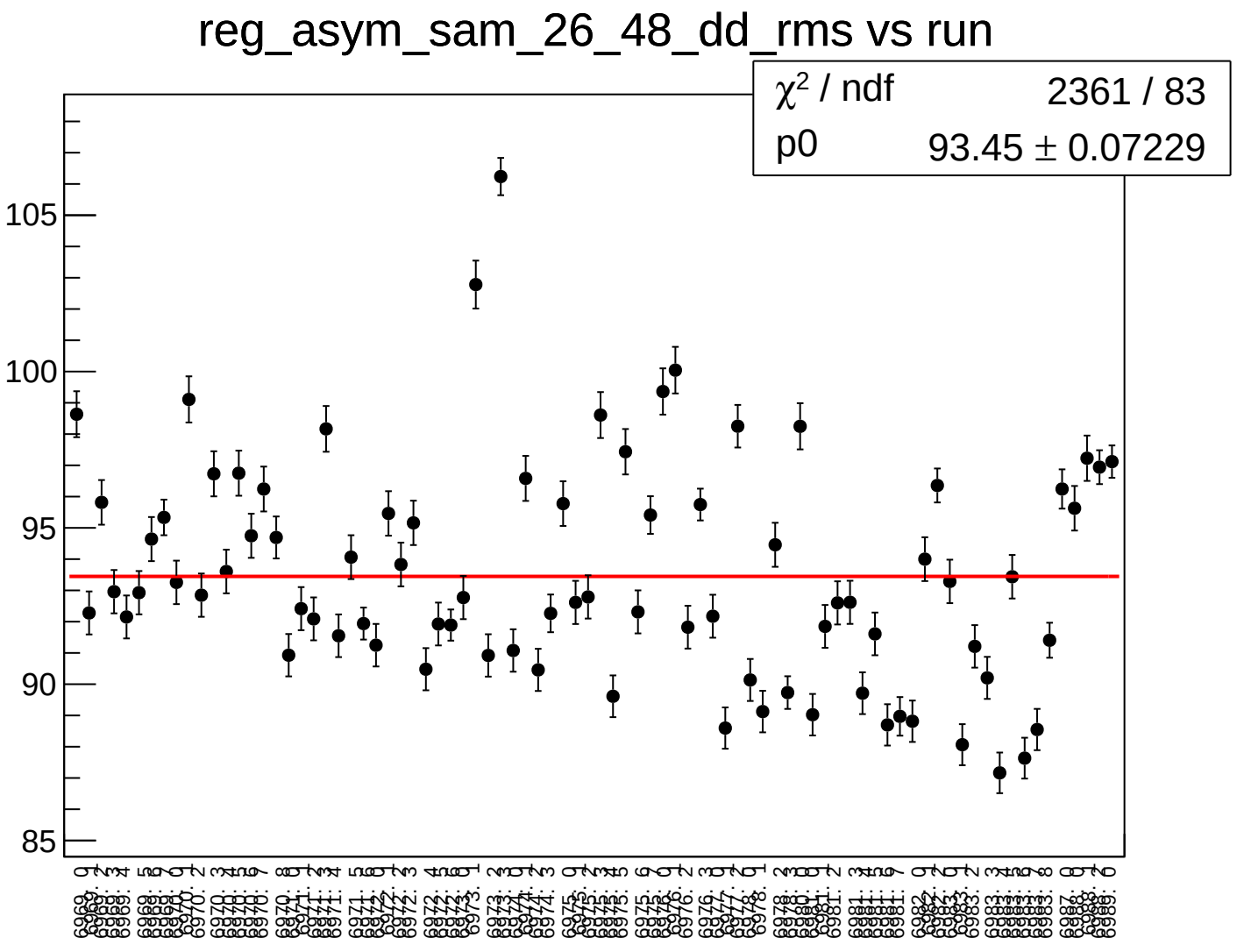

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.2 / 83
p0 0.04777 ± 0.04177
pull
Entries 84
Mean −44.96
Std Dev 0
pull1D
Entries 84
Mean 0.01139
Std Dev 1.065

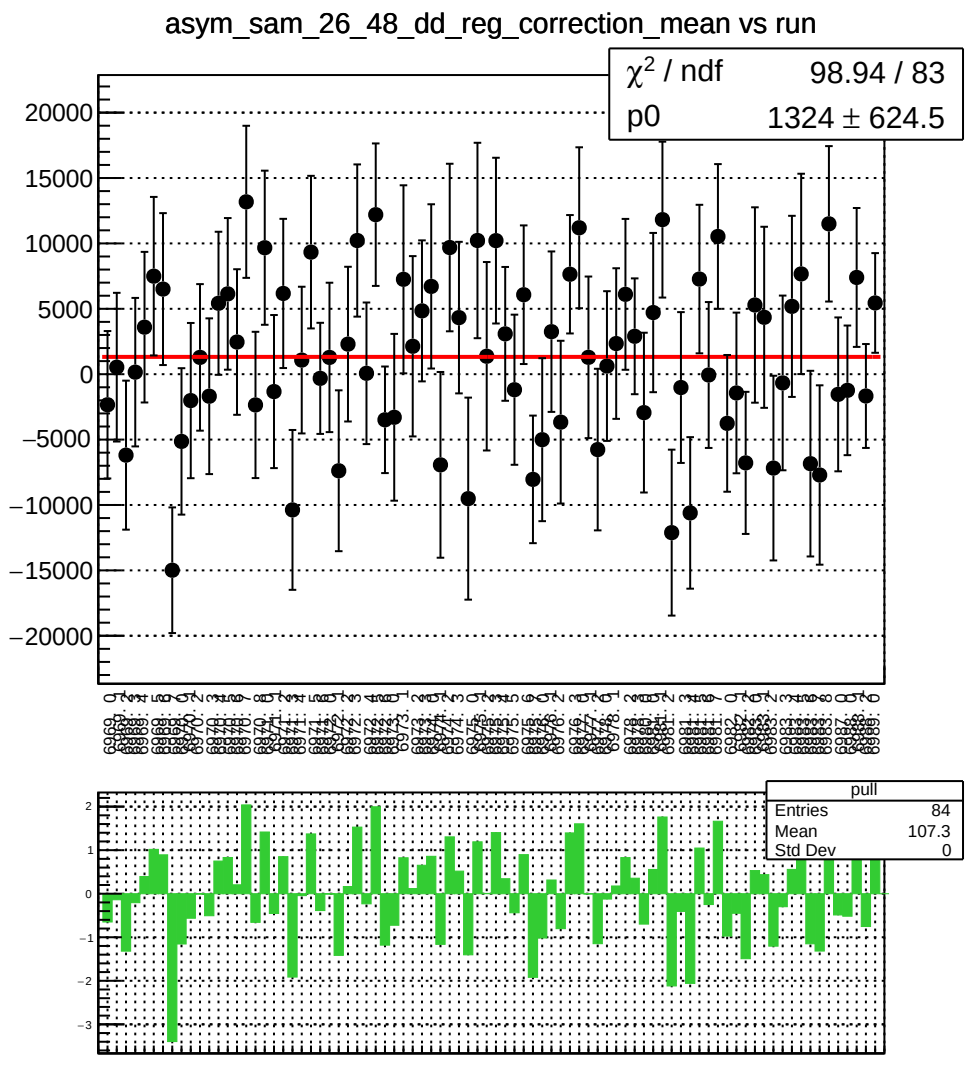

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3422 / 83
p0 38.17 ± 0.02954
44
42
40
38
36
34

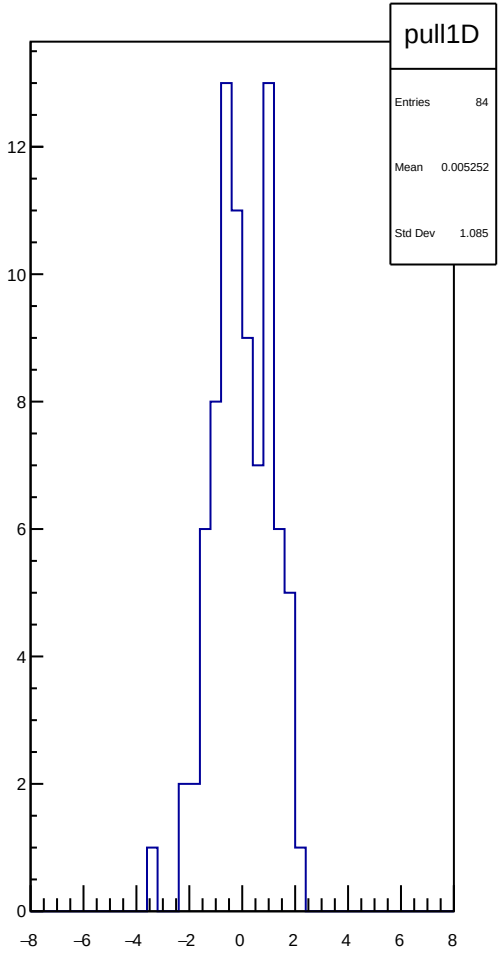

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.88 / 83
p0 −3.157e−14 ± 2.227e−14
pull
Entries 84
Mean 57.76
Std Dev 0
pull1D
Entries 84
Mean 0.06395
Std Dev 1.05

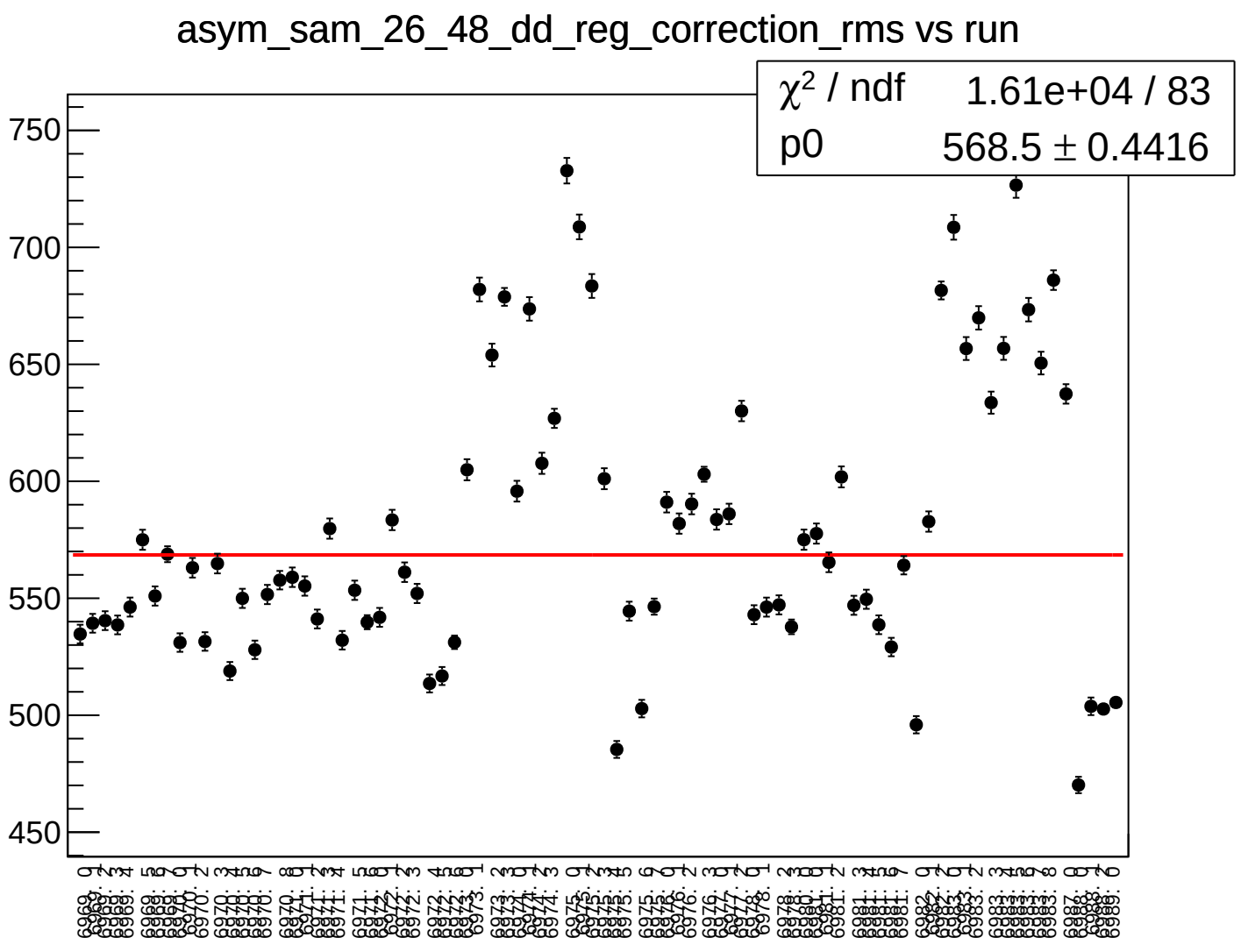

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.475e+05 / 83
p0 1.516e−11 ± 1.575e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

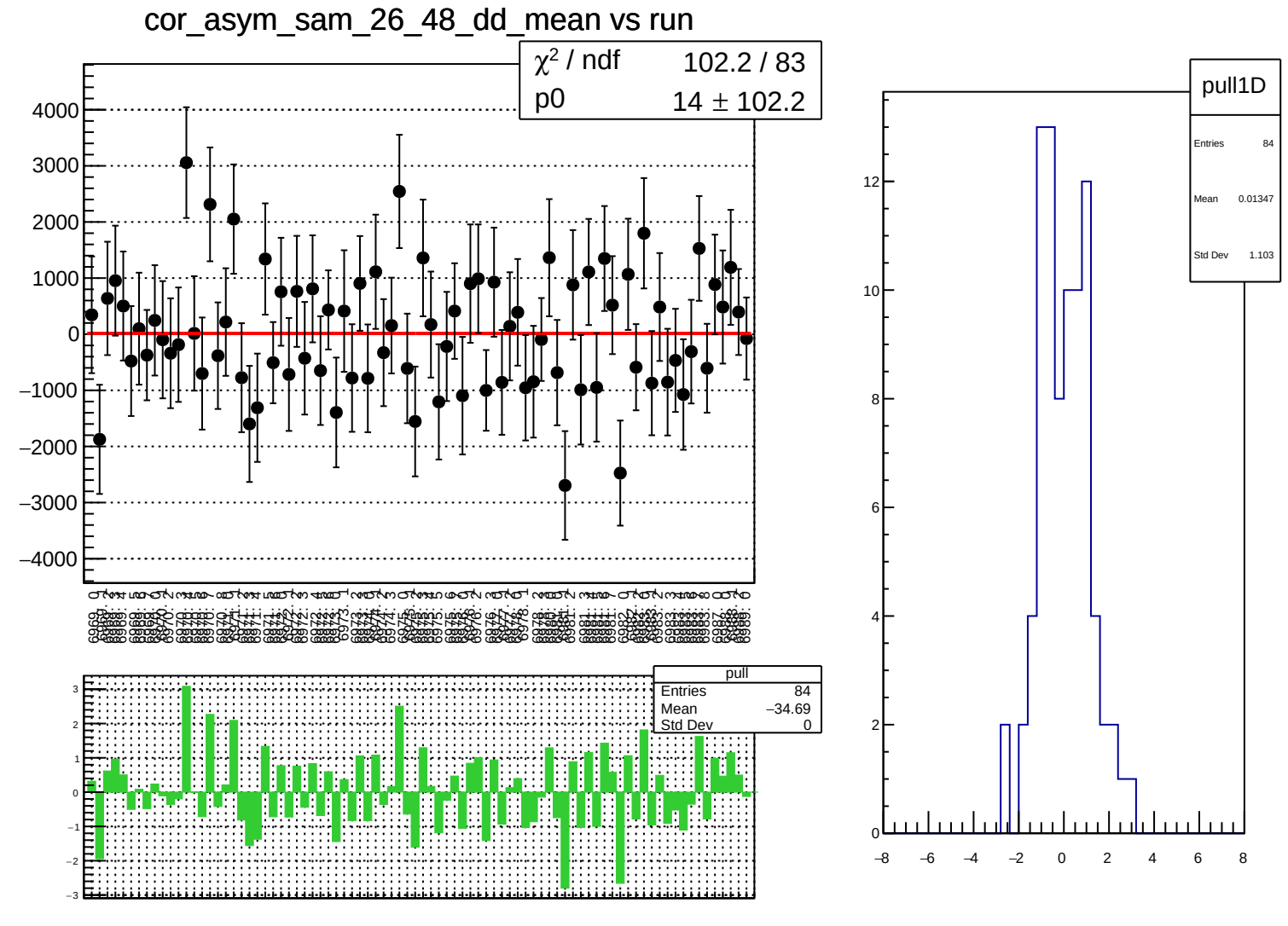

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 102.2 / 83
p0 13.96 ± 102.2
pull
Entries 84
Mean −34.62
Std Dev 0
pull1D
Entries 84
Mean 0.01347
Std Dev 1.103

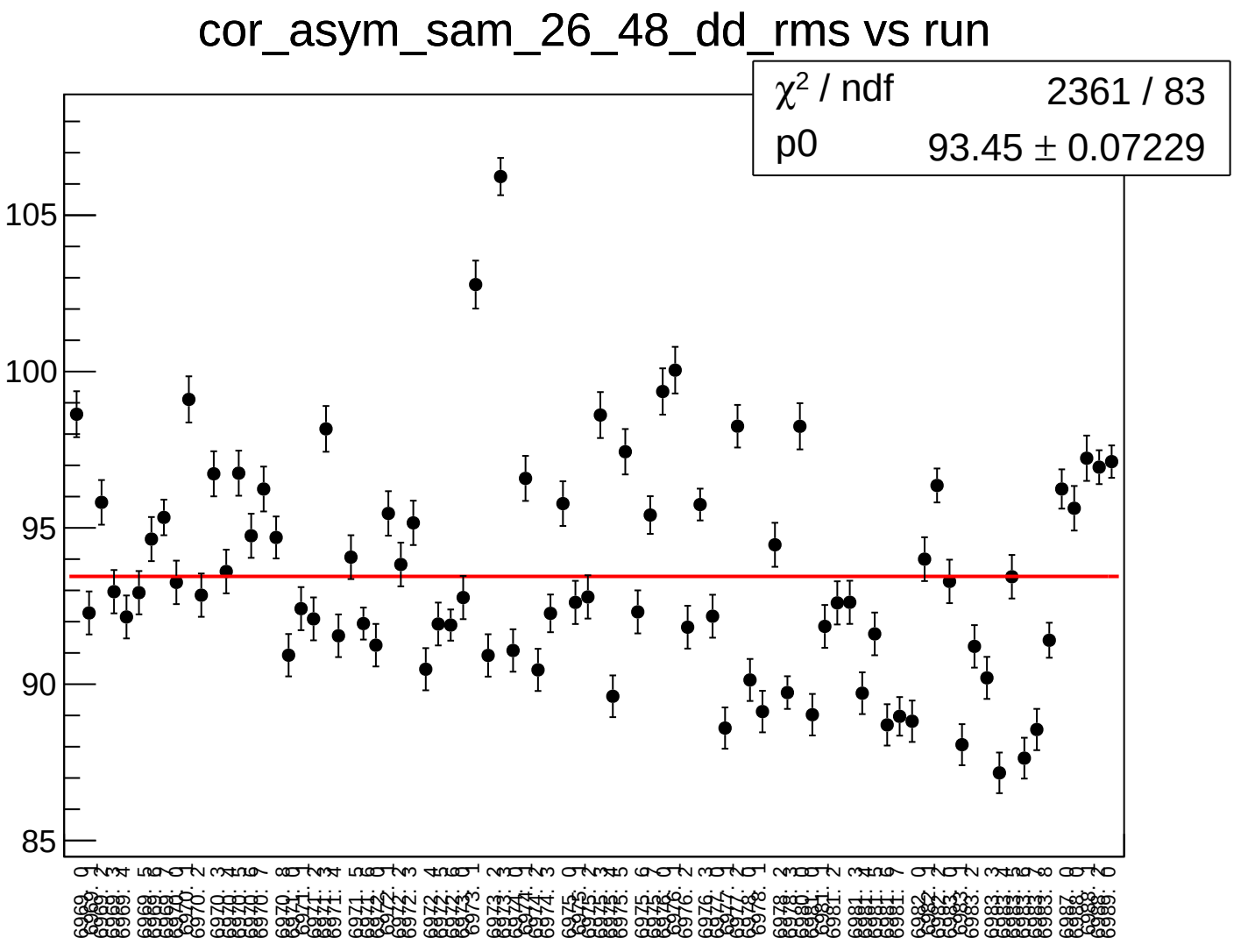

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2361 / 83
p0 93.45 ± 0.07229
105
100
95
90
85

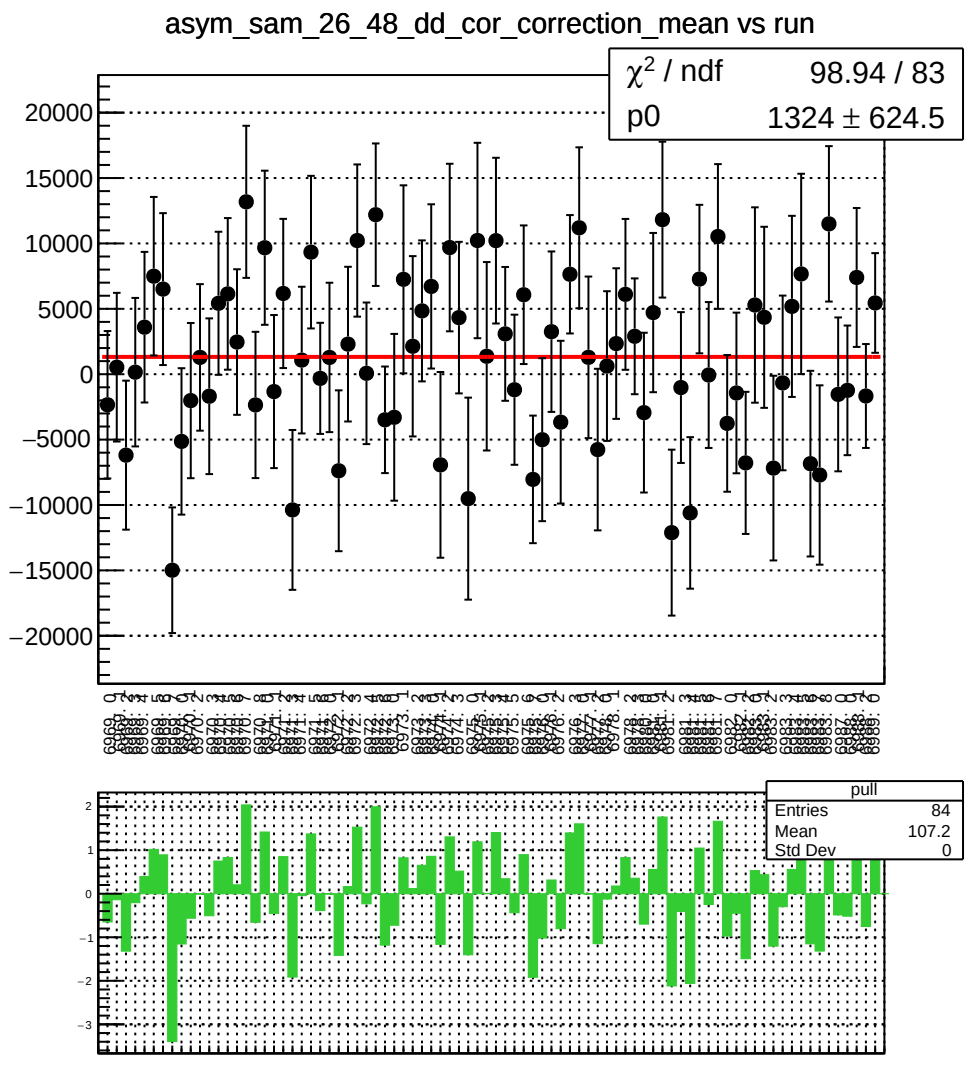

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 98.94 / 83
p0 1324 ± 624.5
pull
Entries 84
Mean 107.3
Std Dev 0

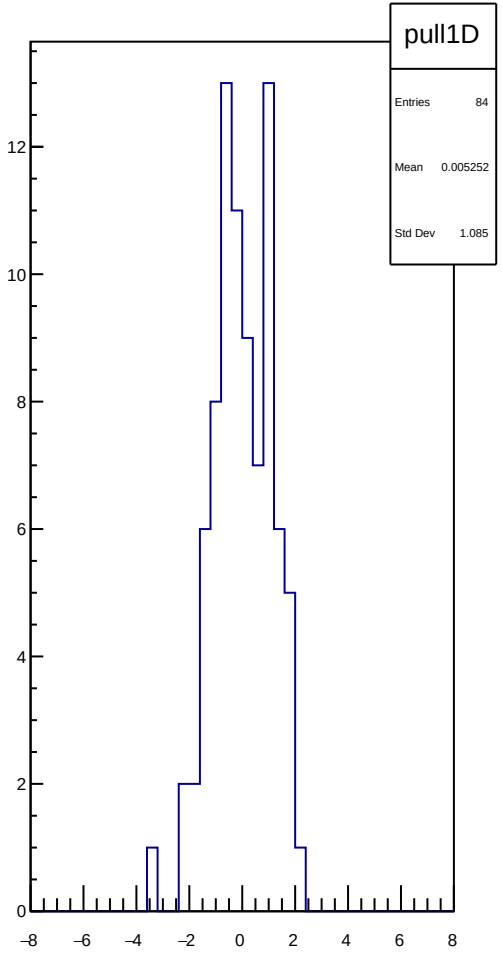

pull1D
Entries 84
Mean 0.005252
Std Dev 1.085

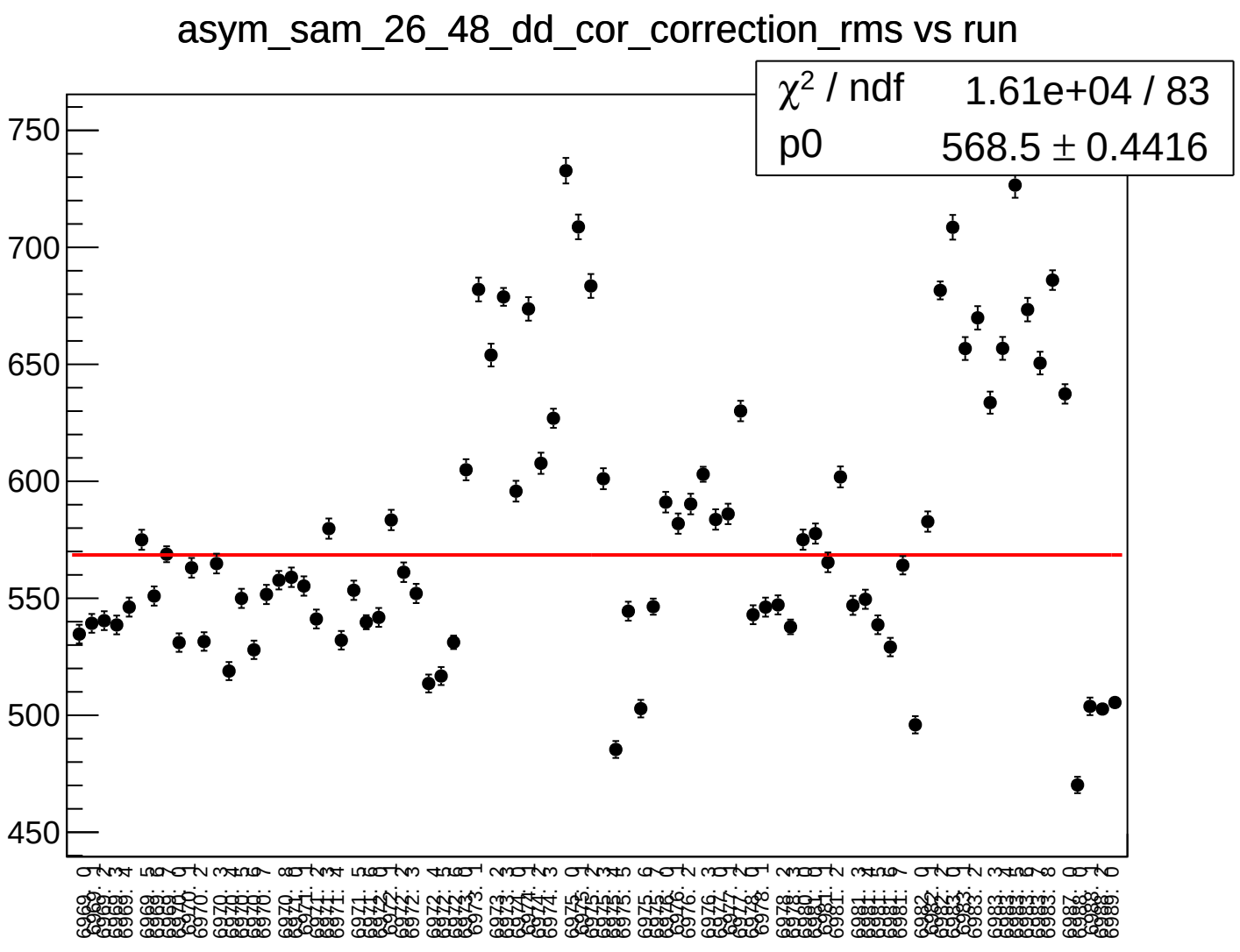

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1.61e+04 / 83
p0 568.5 ± 0.4416
750
700
650
600
550
500
450

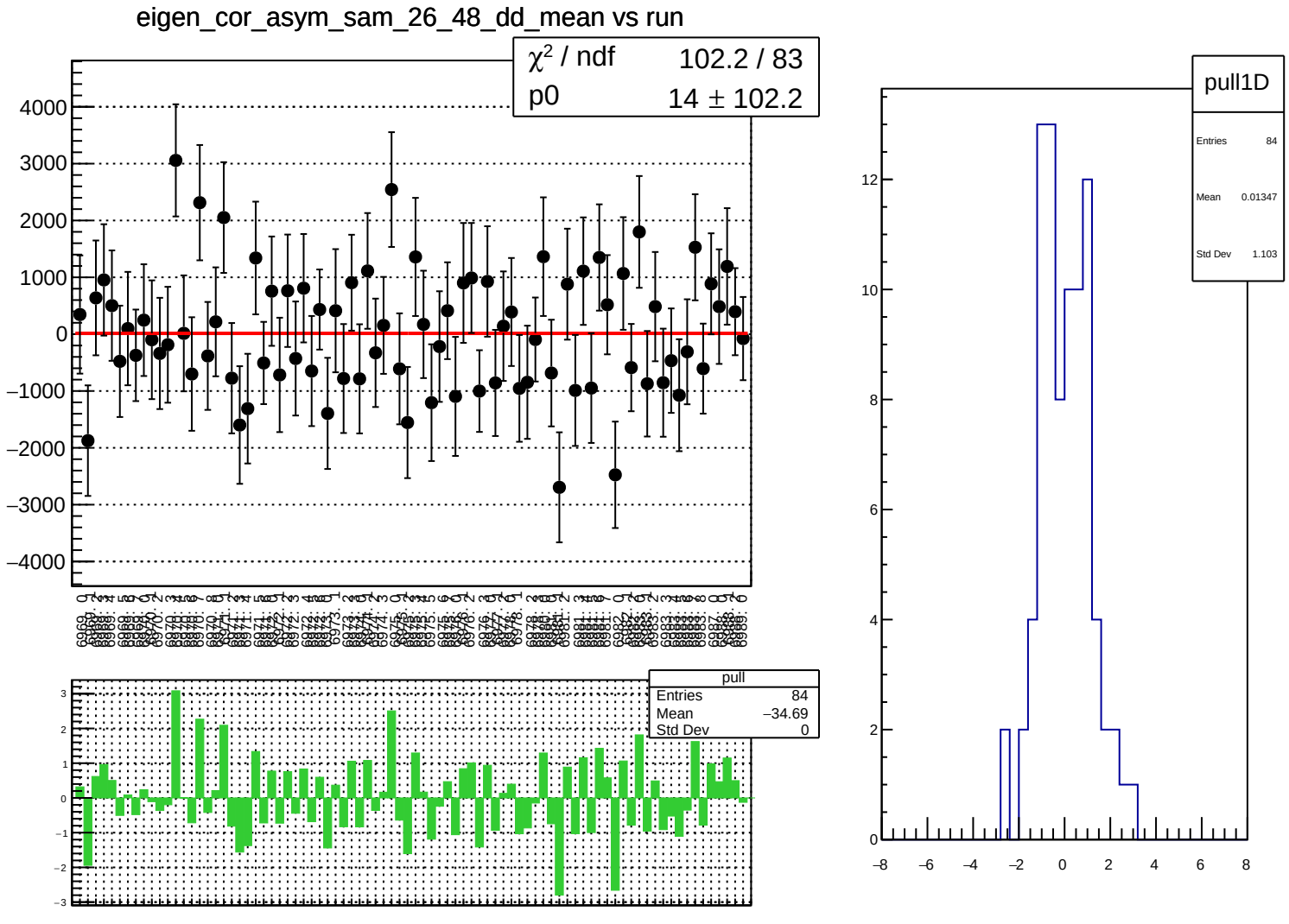

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 102.2 / 83
p0 14 ± 102.2
pull
Entries 84
Mean −34.69
Std Dev 0
pull1D
Entries 84
Mean 0.01347
Std Dev 1.103

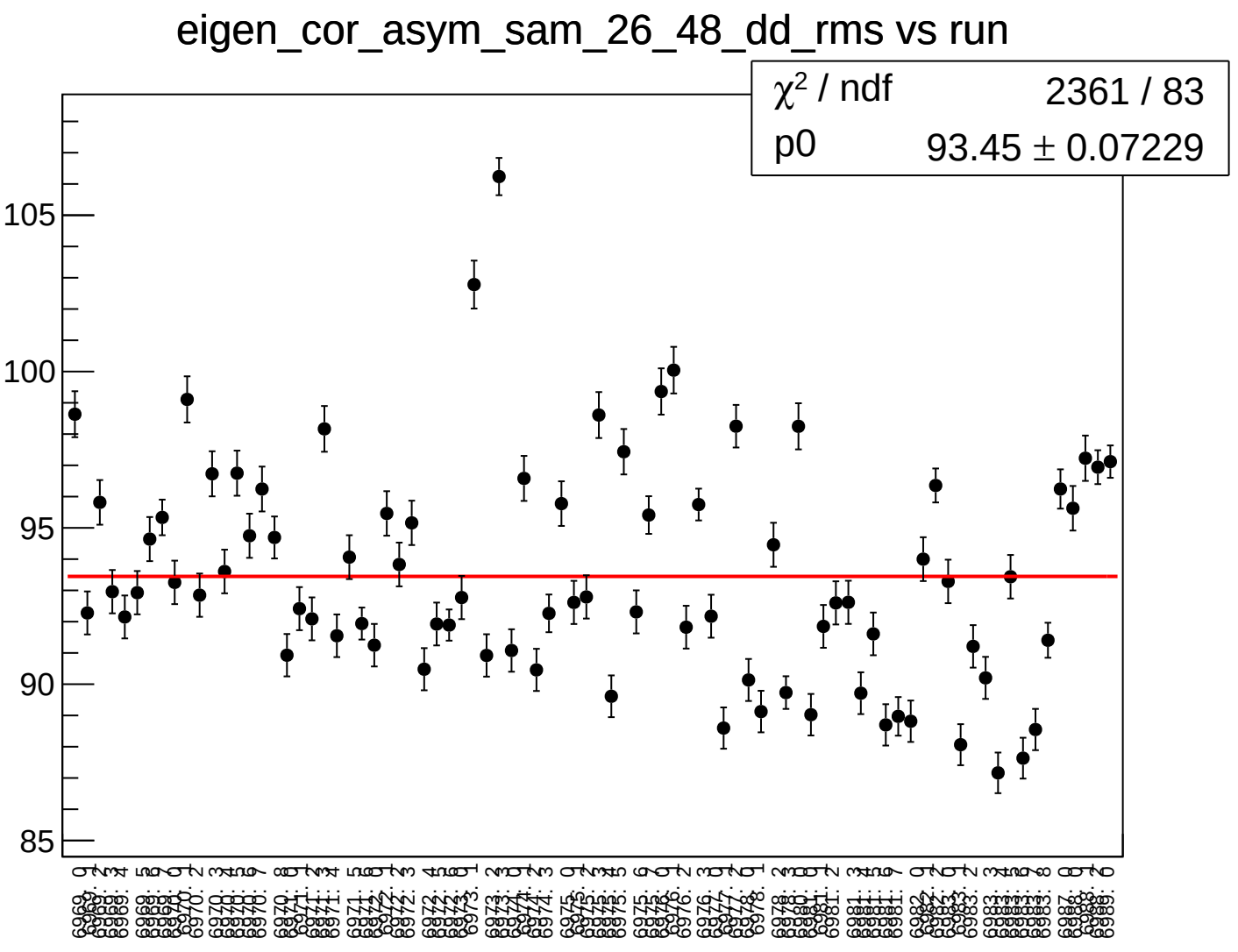

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2361 / 83
p0 93.45 ± 0.07229
105
100
95
90
85

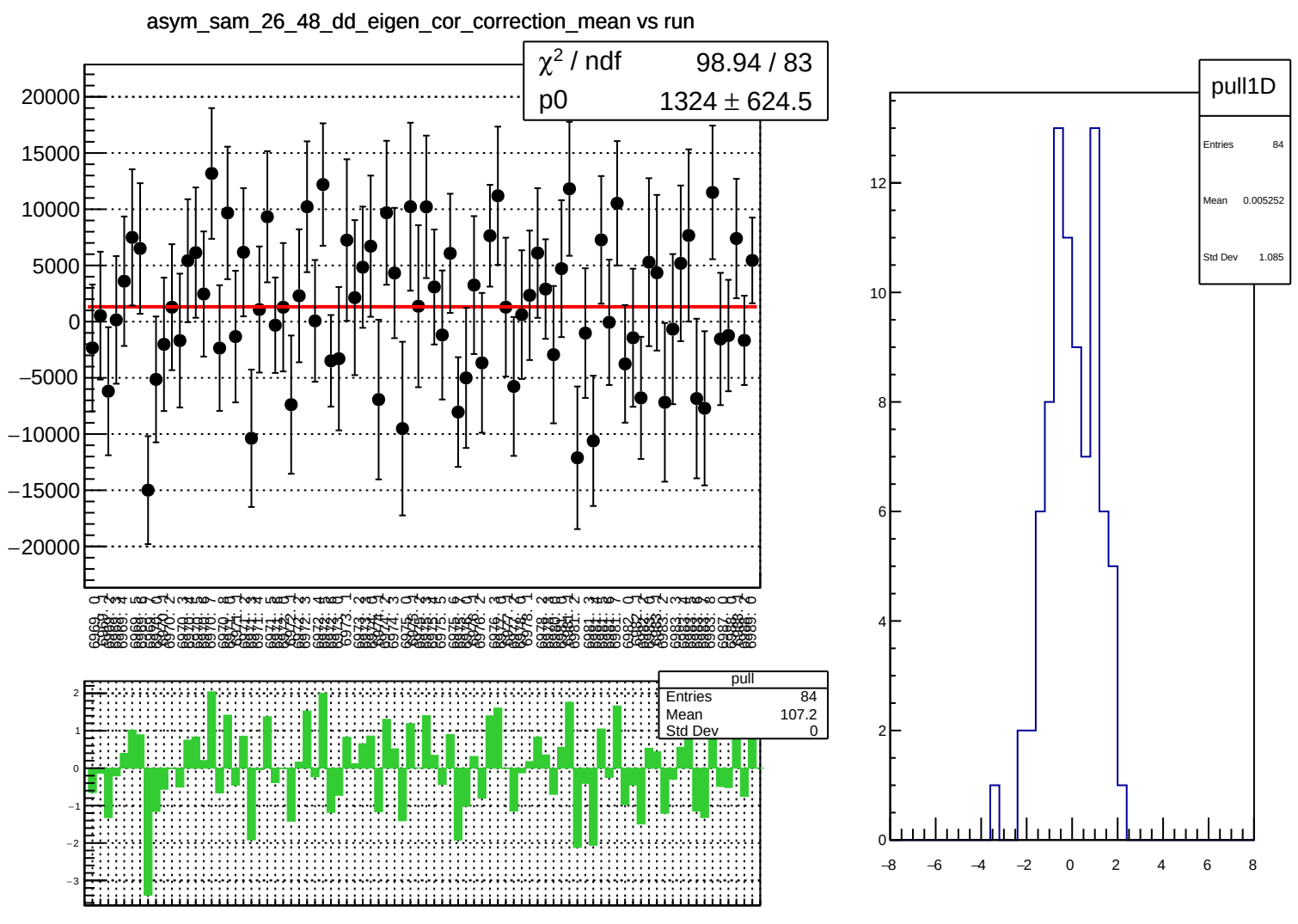

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 98.94 / 83
p0 1324 ± 624.5
pull
Entries 84
Mean 107.2
Std Dev 0

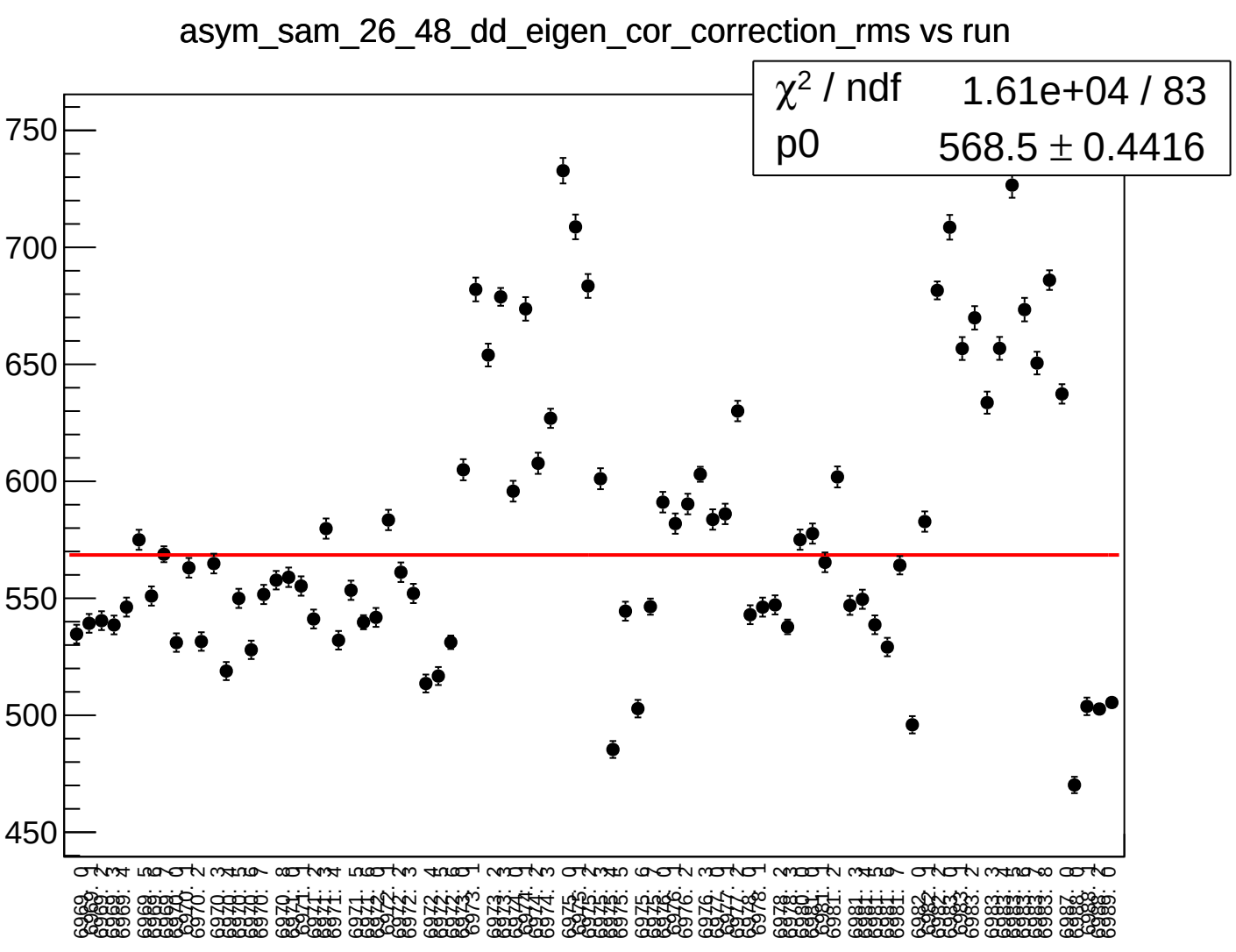

pull1D
Entries 84
Mean 0.005252
Std Dev 1.085

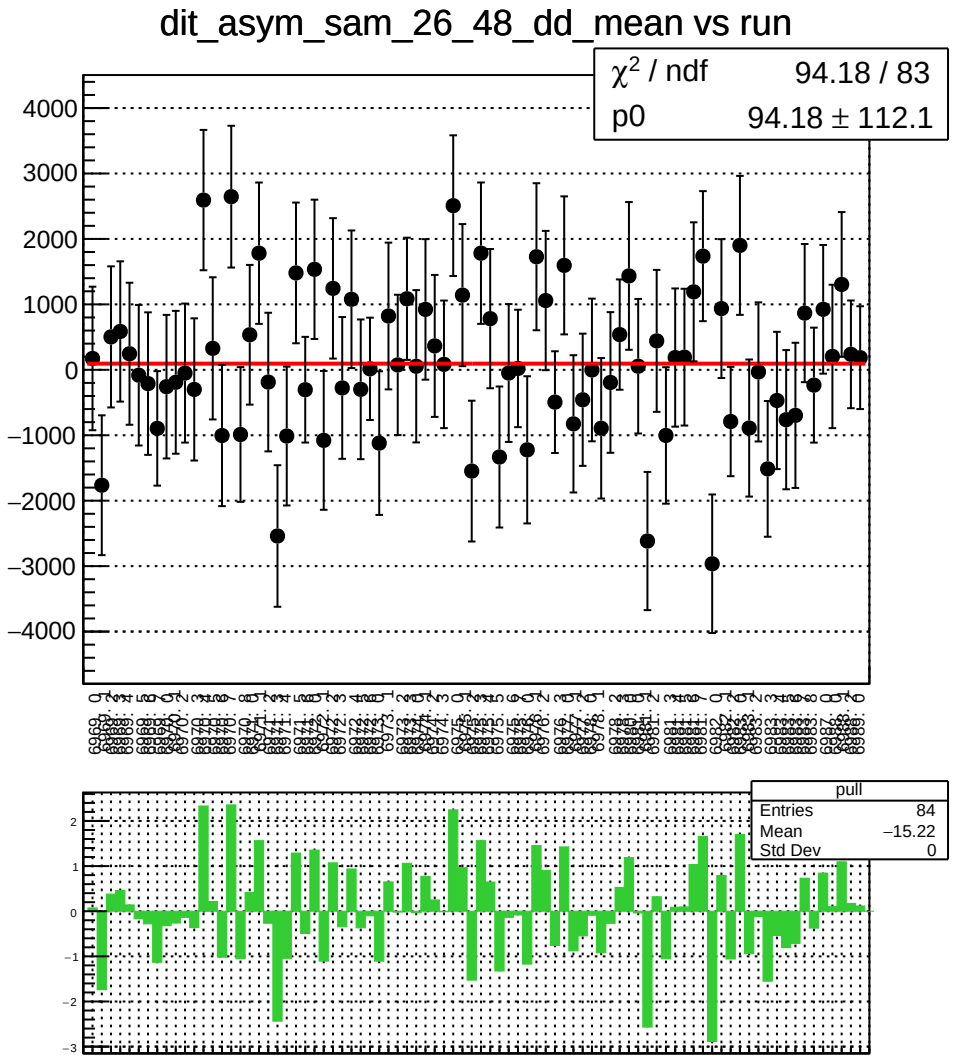

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1.61e+04 / 83
p0 568.5 ± 0.4416
750
700
650
600
550
500
450

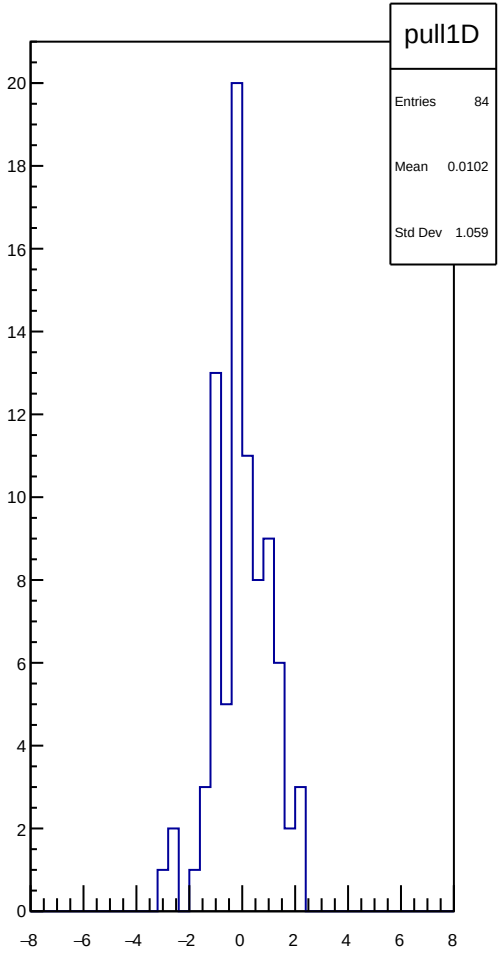

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 102.2 / 83
p0 14 ± 102.2
pull
Entries 84
Mean −34.69
Std Dev 0
pull1D
Entries 84
Mean 0.01347
Std Dev 1.103

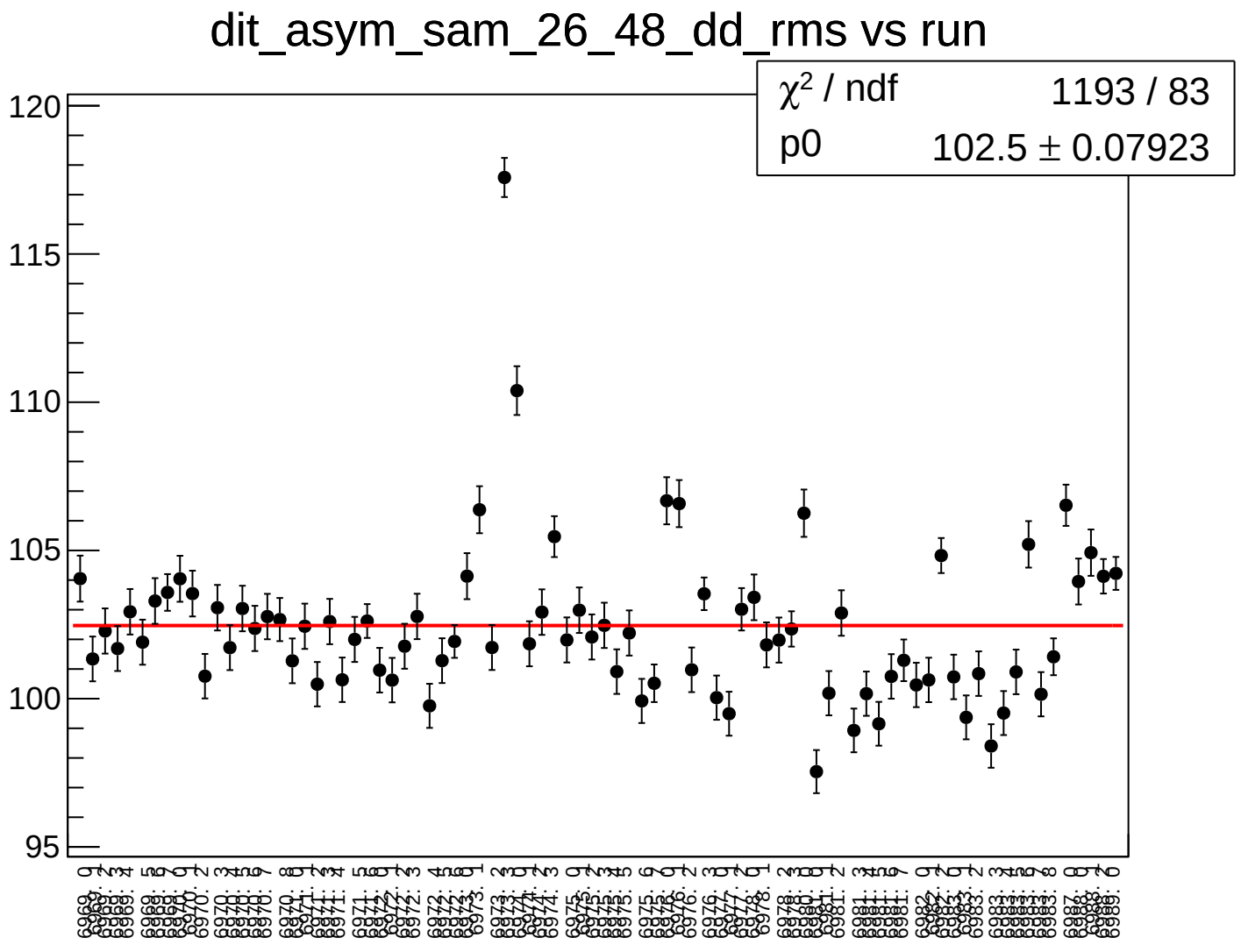

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2361 / 83
p0 93.45 ± 0.07229
105
100
95
90
85

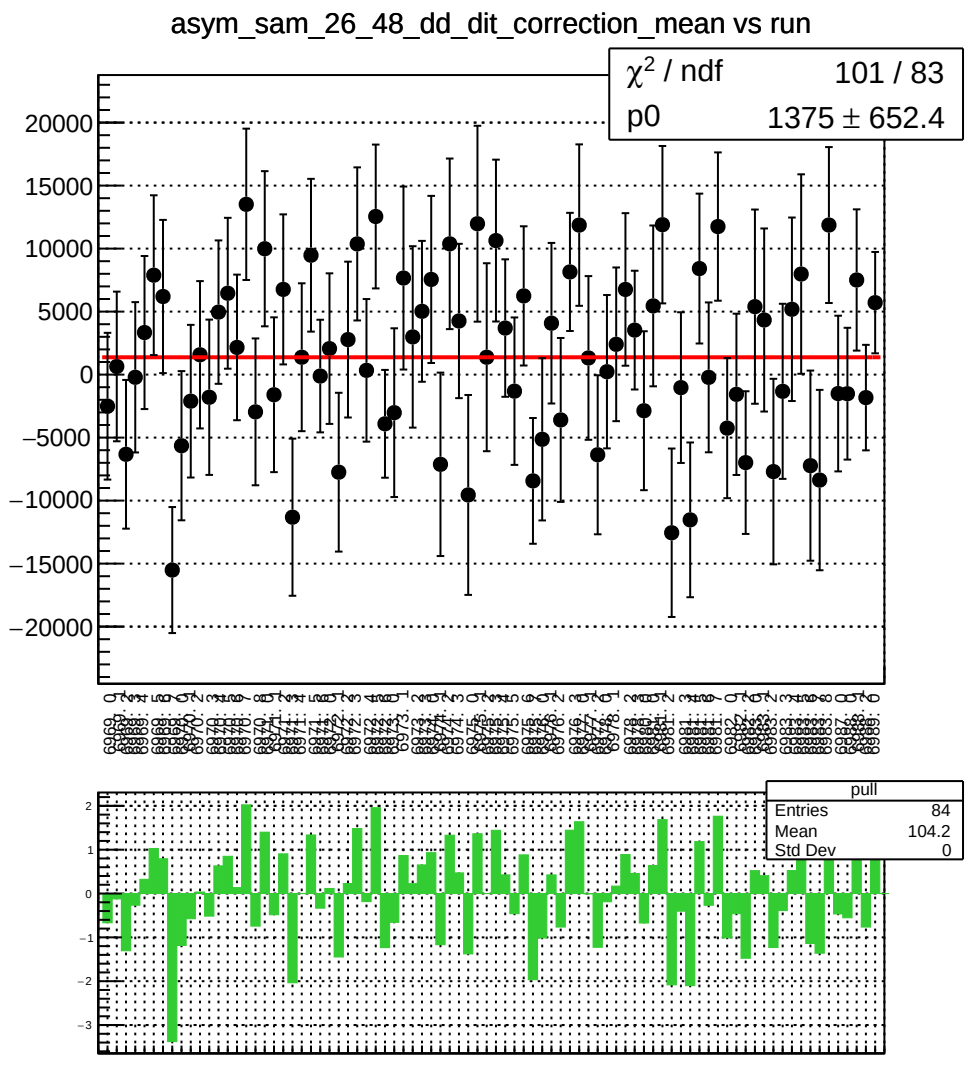

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.94 / 83
p0 1324 ± 624.5
pull
Entries 84
Mean 107.2
Std Dev 0
pull1D
Entries 84
Mean 0.005252
Std Dev 1.085

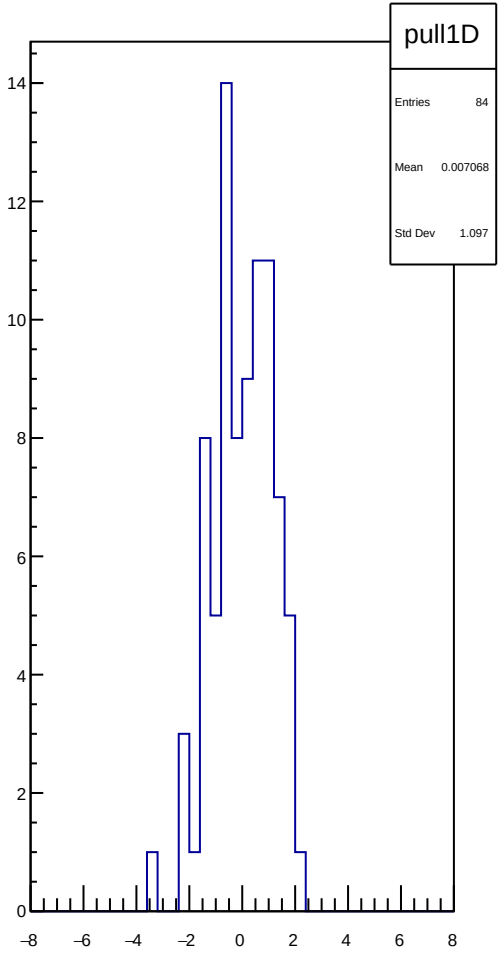

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.61e+04 / 83
p0 568.5 ± 0.4416
750
700
650
600
550
500
450

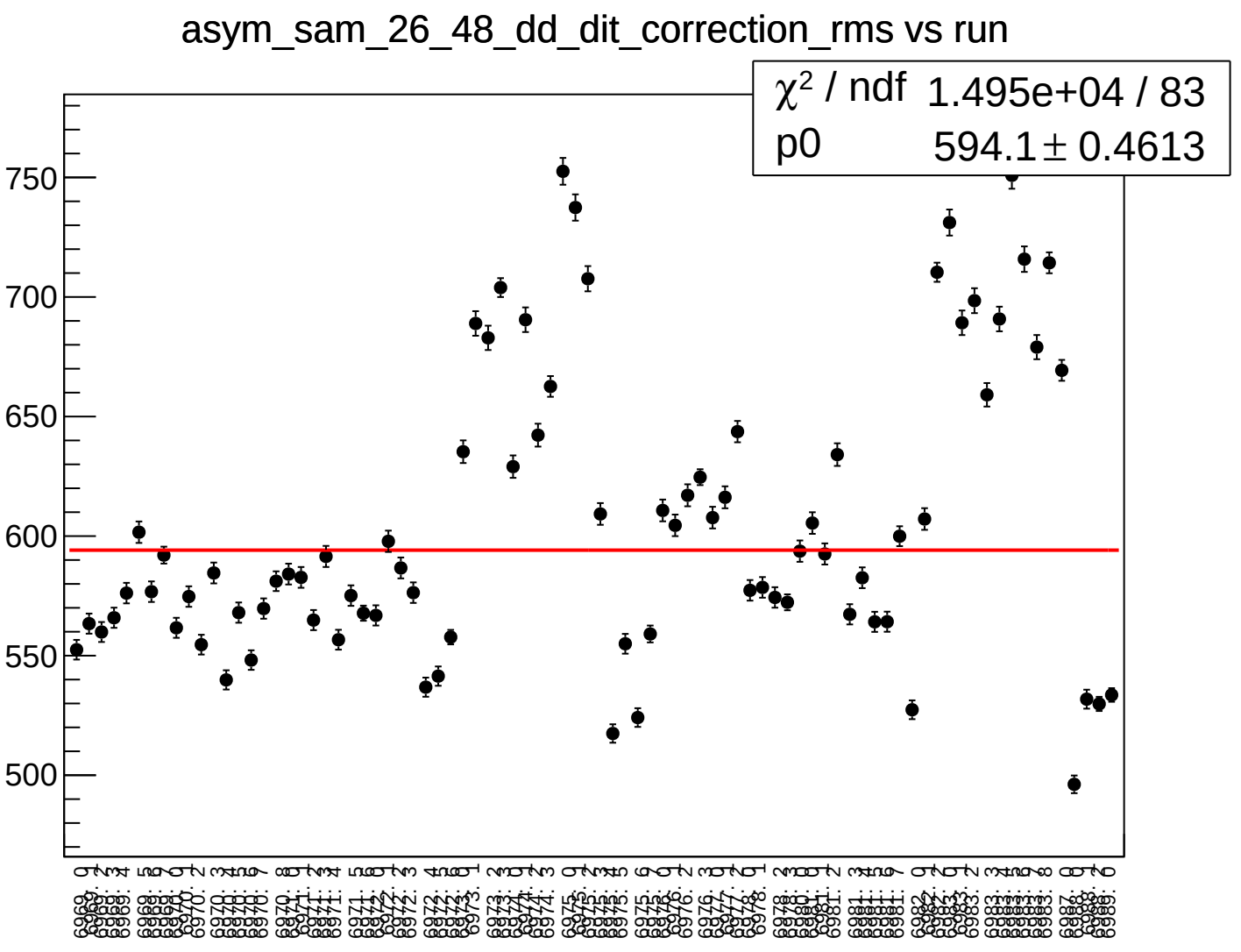

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 94.18 / 83
p0 94.18 ± 112.1
pull
Entries 84
Mean −15.22
Std Dev 0

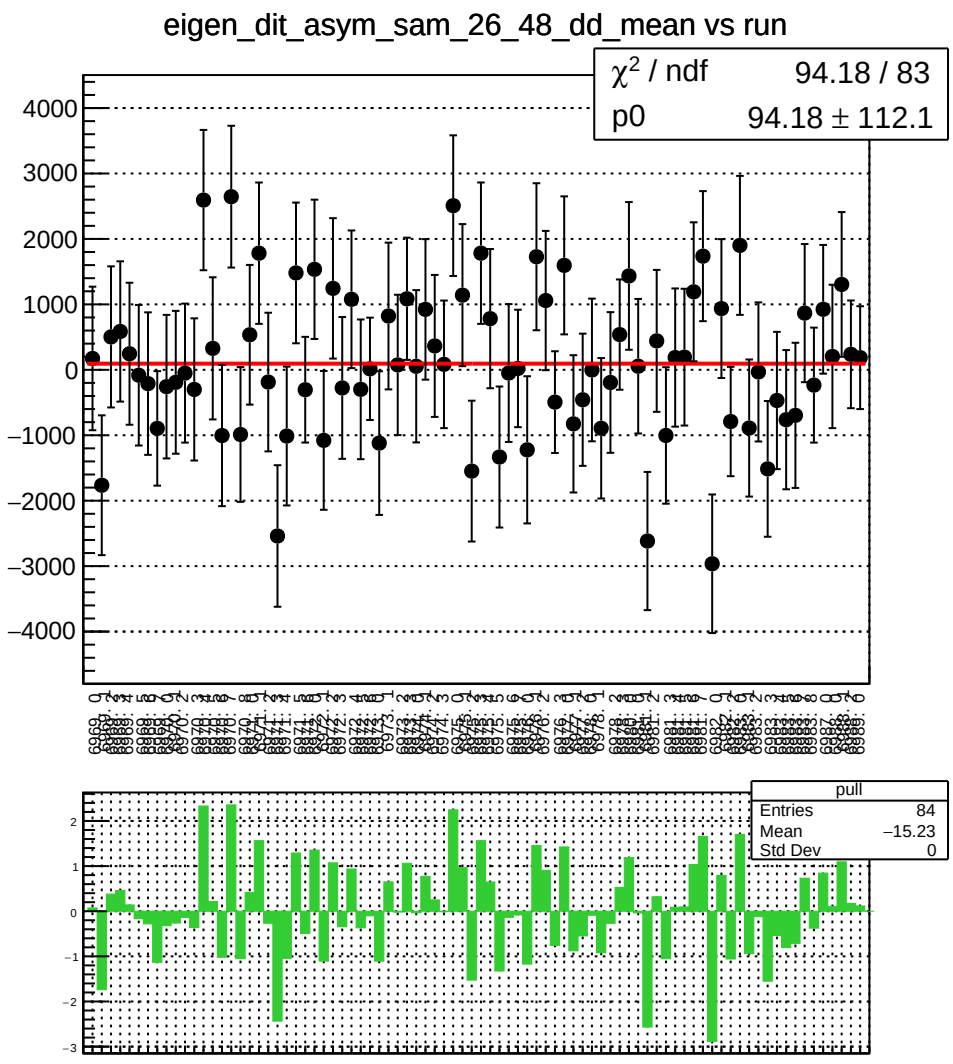

pull1D
Entries 84
Mean 0.0102
Std Dev 1.059

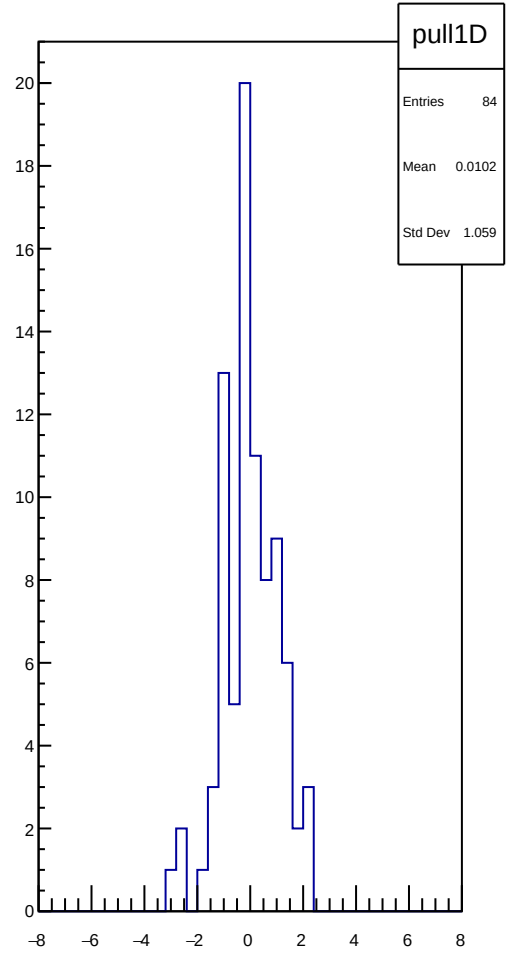

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1193 / 83
p0 102.5 ± 0.07923
120
115
110
105
100
95

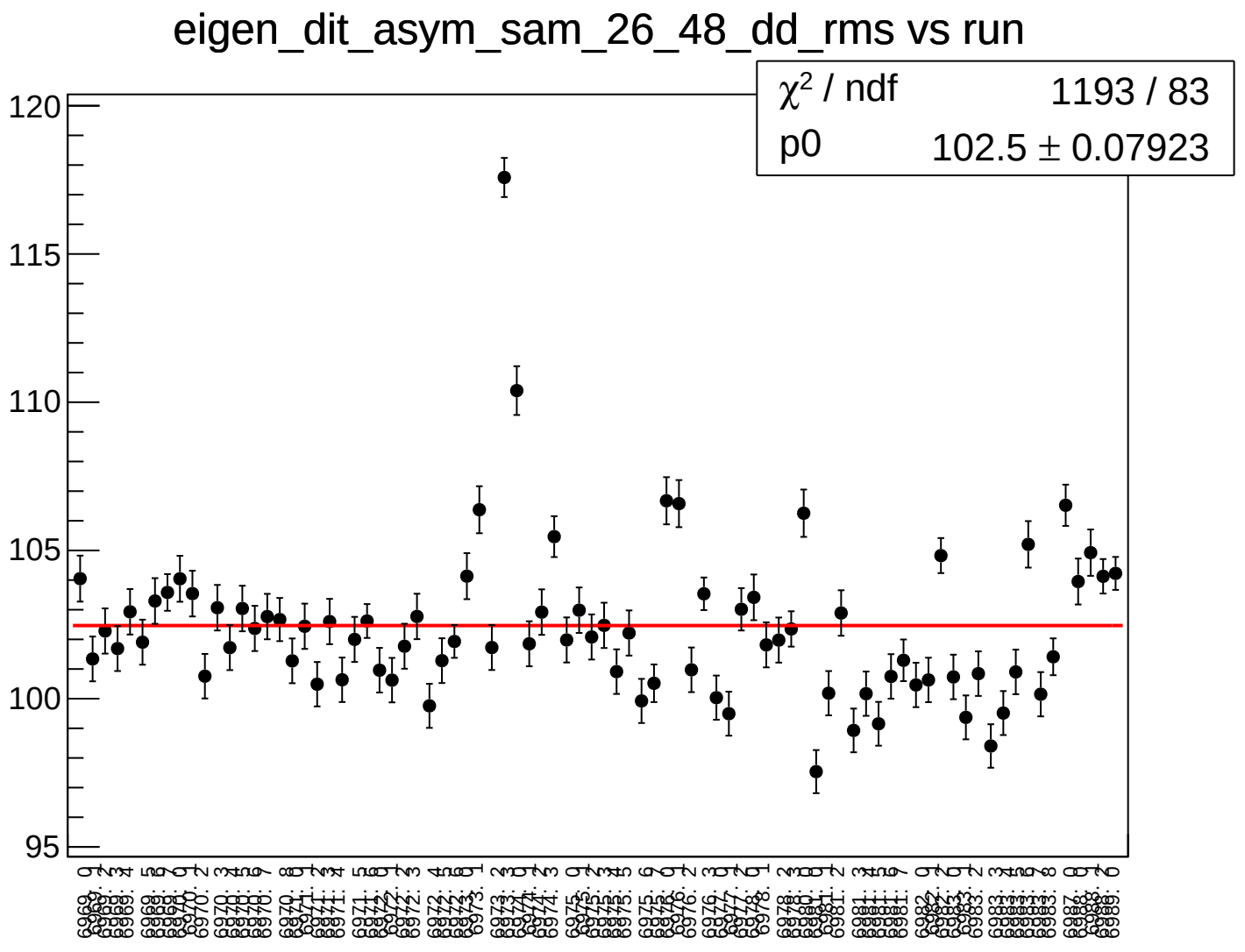

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 101 / 83
p0 1375 ± 652.4
pull
Entries 84
Mean 104.2
Std Dev 0

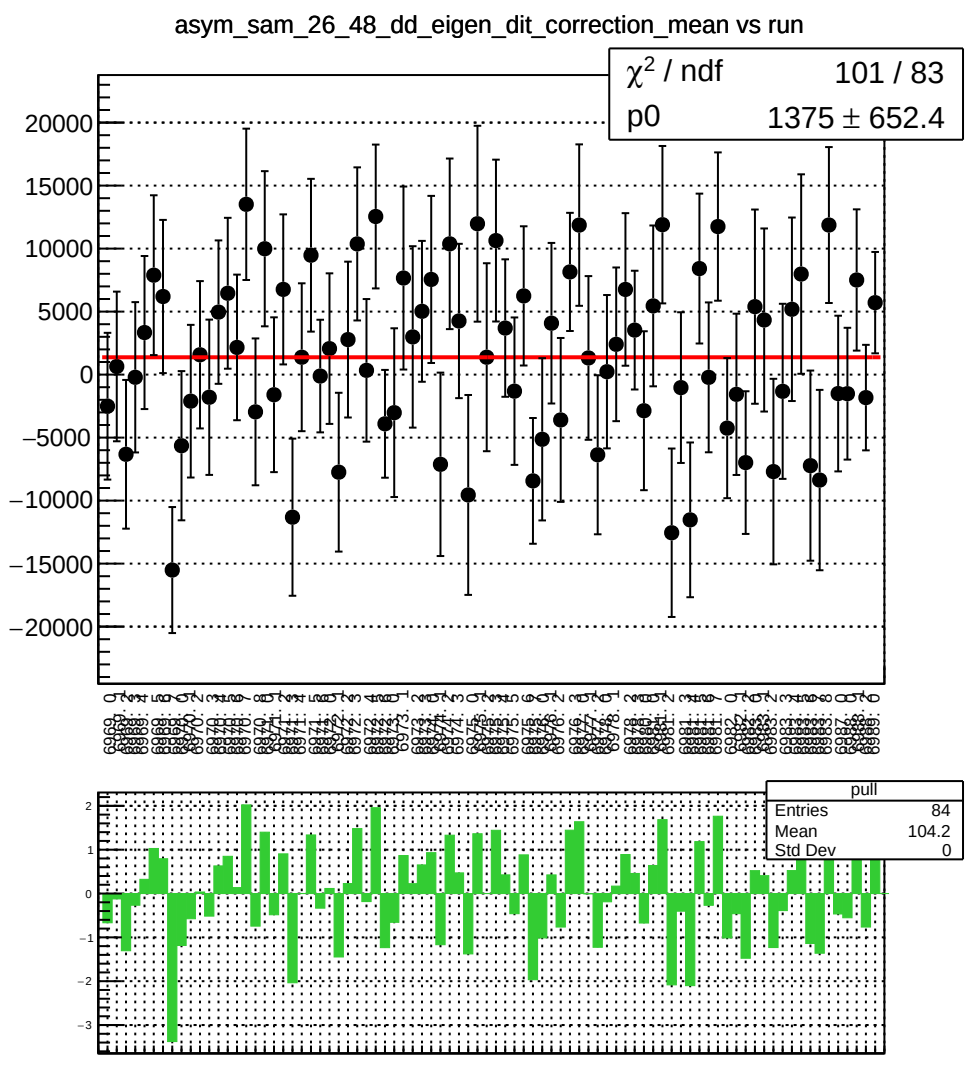

pull1D
Entries 84
Mean 0.007068
Std Dev 1.097

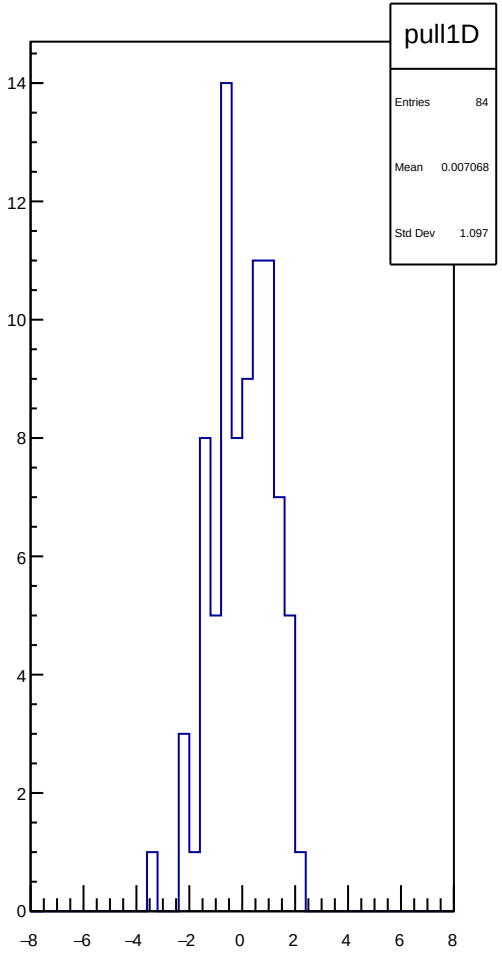

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1.495e+04 / 83
p0 594.1 ± 0.4613
750
700
650
600
550
500

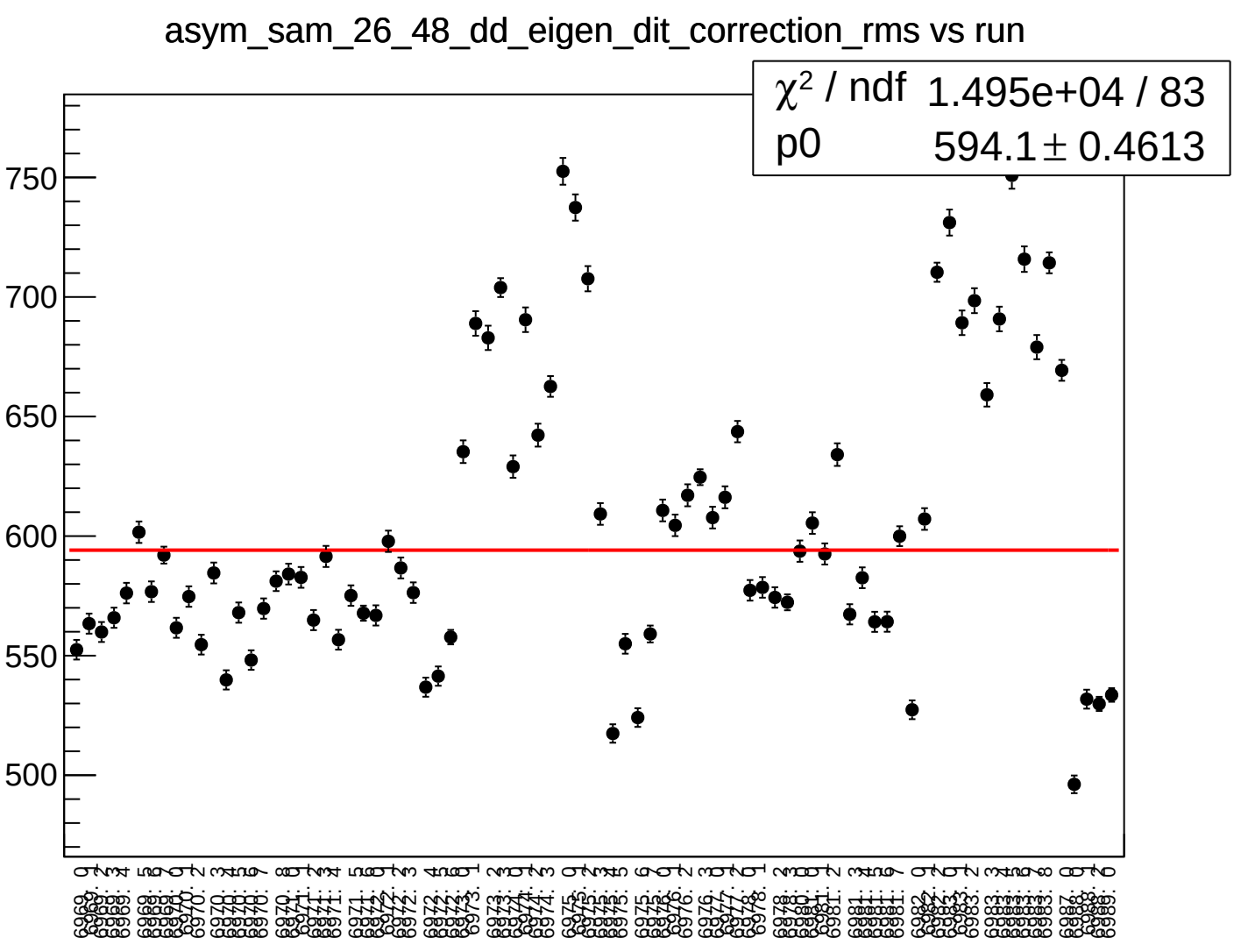

eigen_dit_asym_sam_26_48_dd_mean vs run
χ^2 / ndf 94.18 / 83
p0 94.18 ± 112.1
pull
Entries 84
Mean −15.23
Std Dev 0

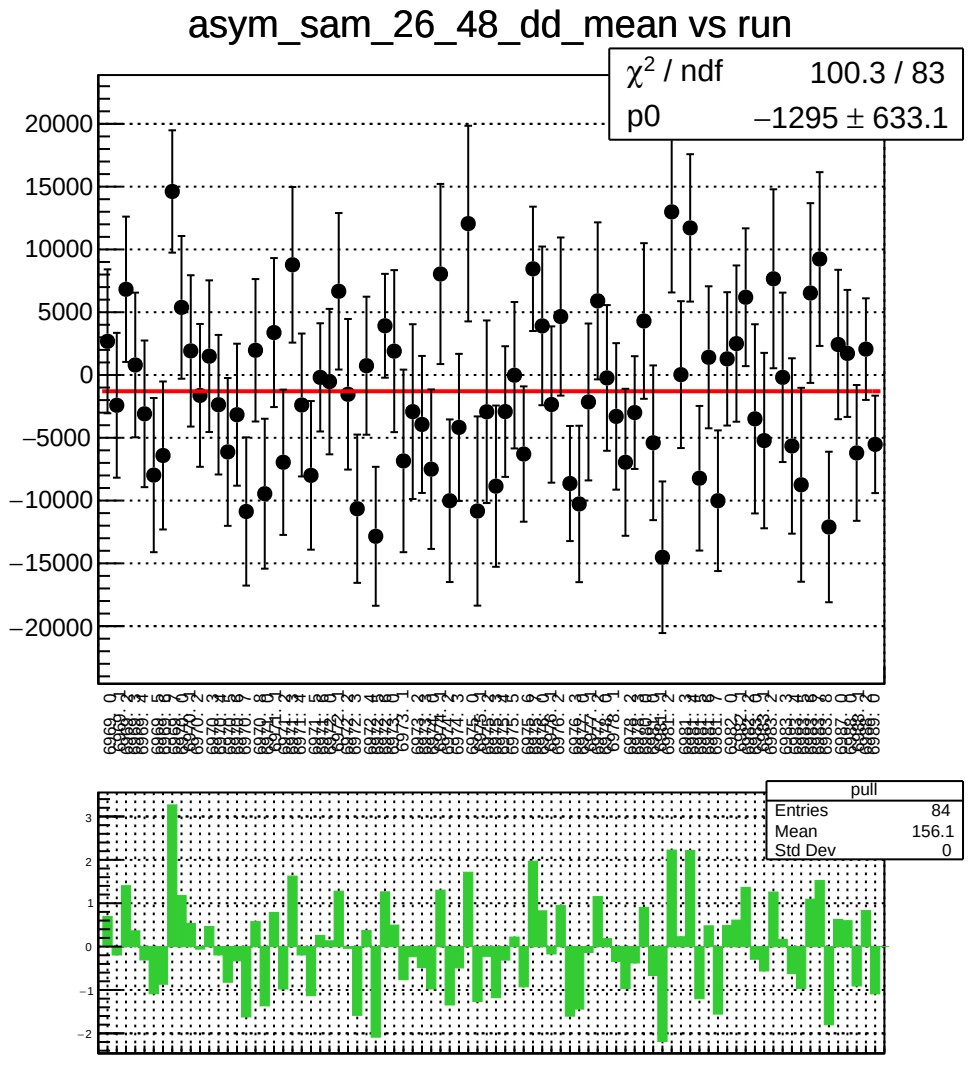

pull1D
Entries 84
Mean 0.0102
Std Dev 1.059

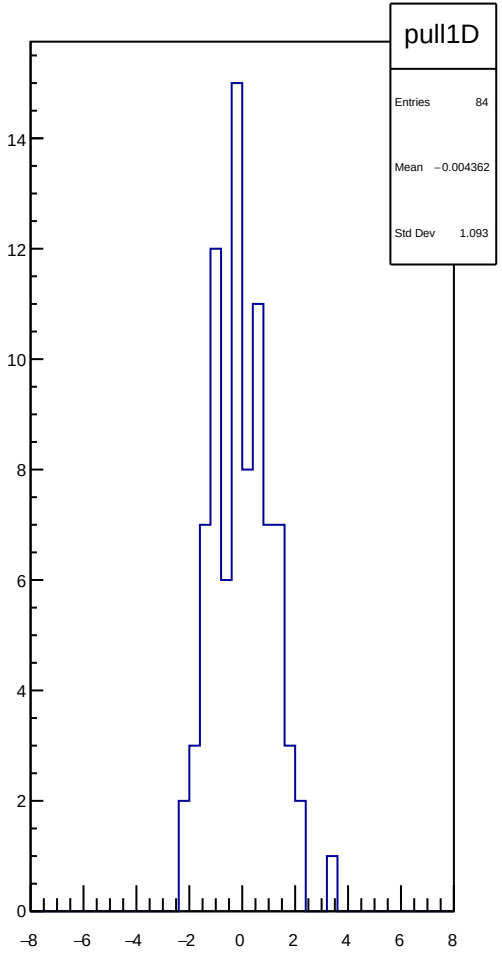

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1193 / 83
p0 102.5 ± 0.07923
120
115
110
105
100
95

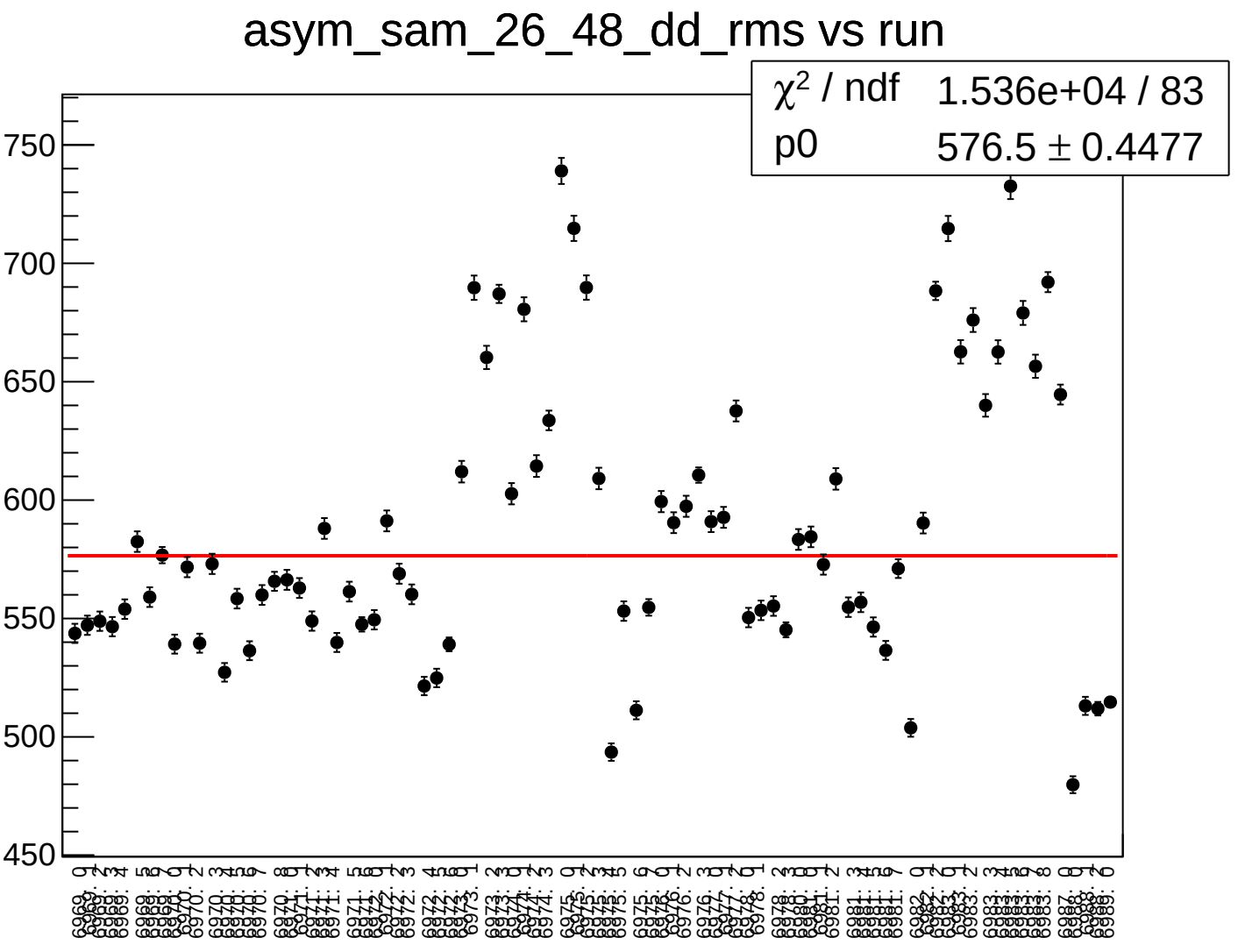

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 101 / 83
p0 1375 ± 652.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean 104.2
Std Dev 0
2
1
0
−1
−2
−3

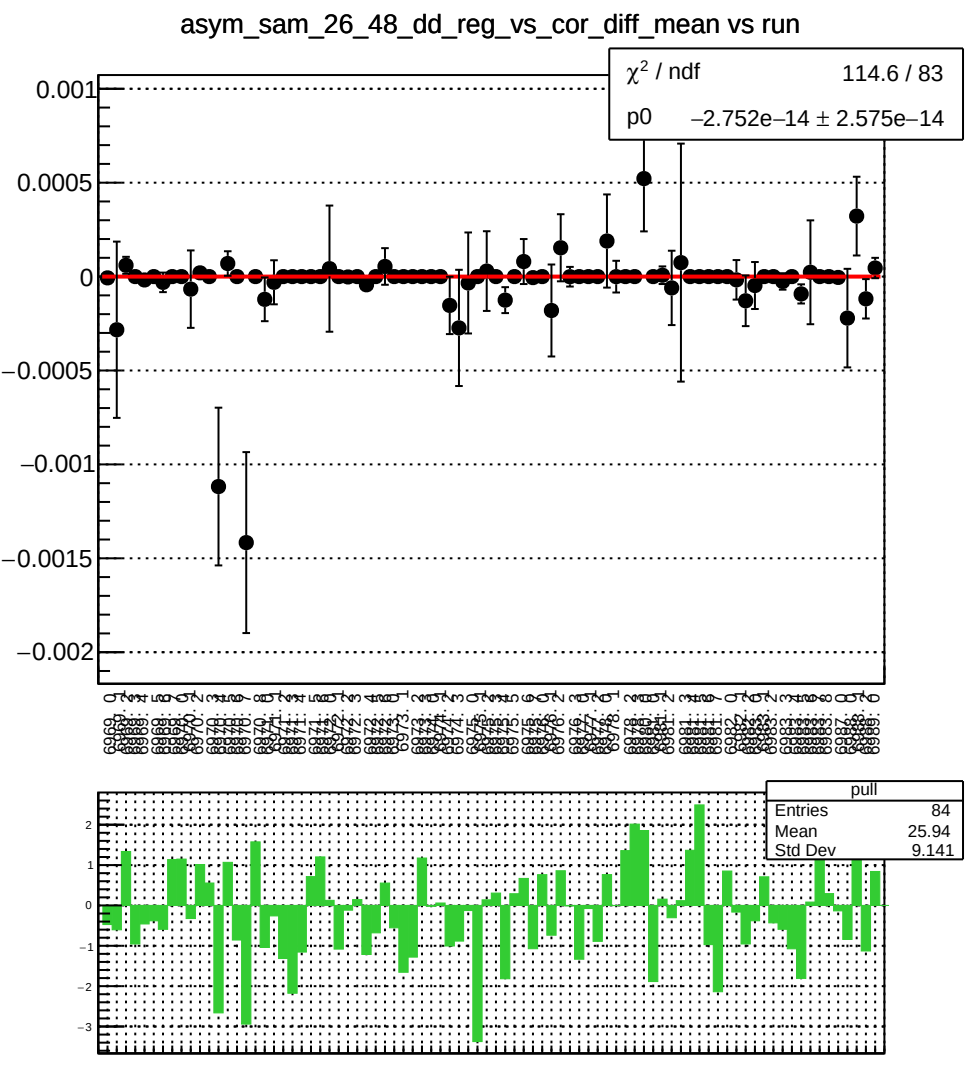

pull1D
Entries 84
Mean 0.007068
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

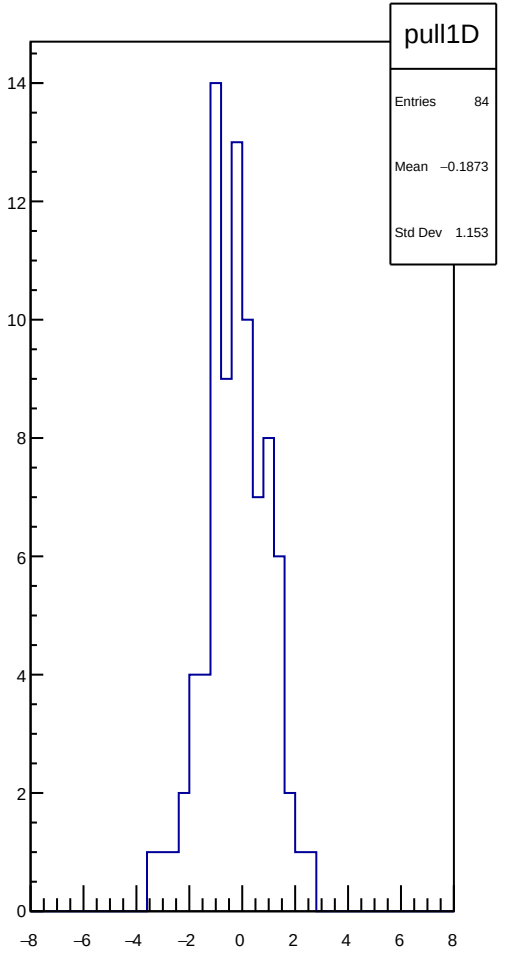

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.495e+04 / 83
p0 594.1 ± 0.4613
750
700
650
600
550
500

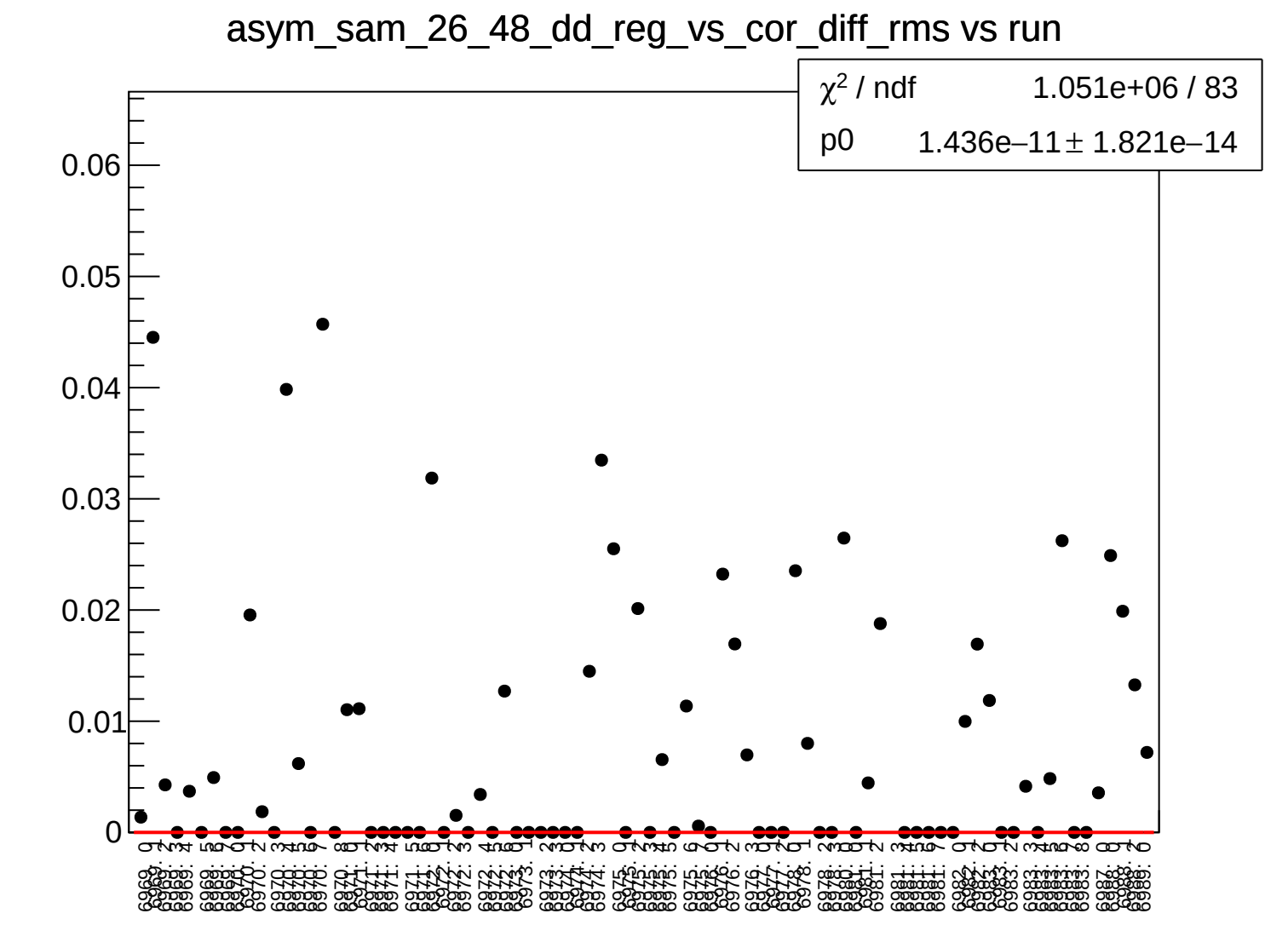

asym_sam_26_48_dd_mean vs run
χ² / ndf 100.3 / 83
p0 −1295 ± 633.1
pull
Entries 84
Mean 156.1
Std Dev 0

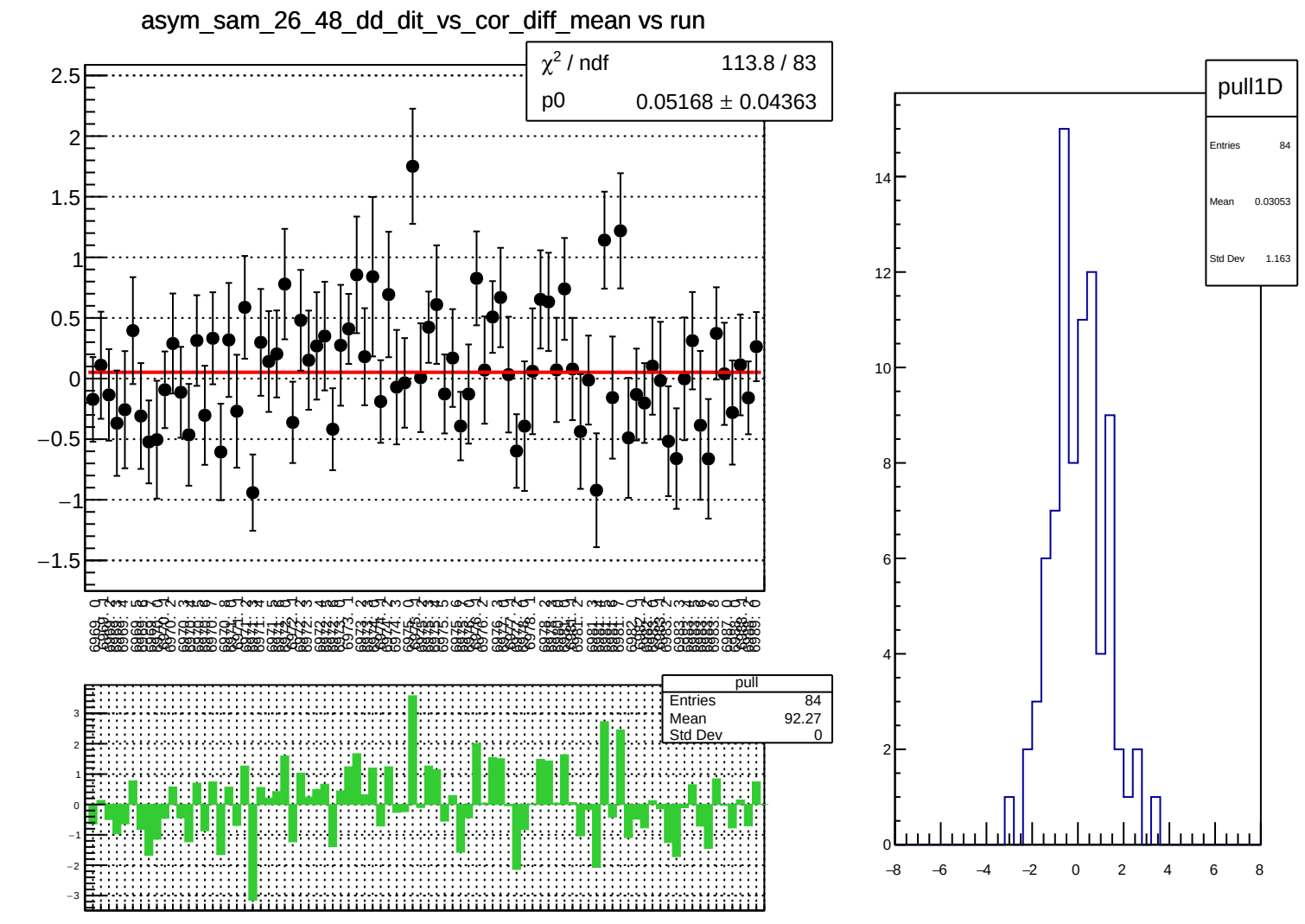

pull1D
Entries 84
Mean −0.004362
Std Dev 1.093

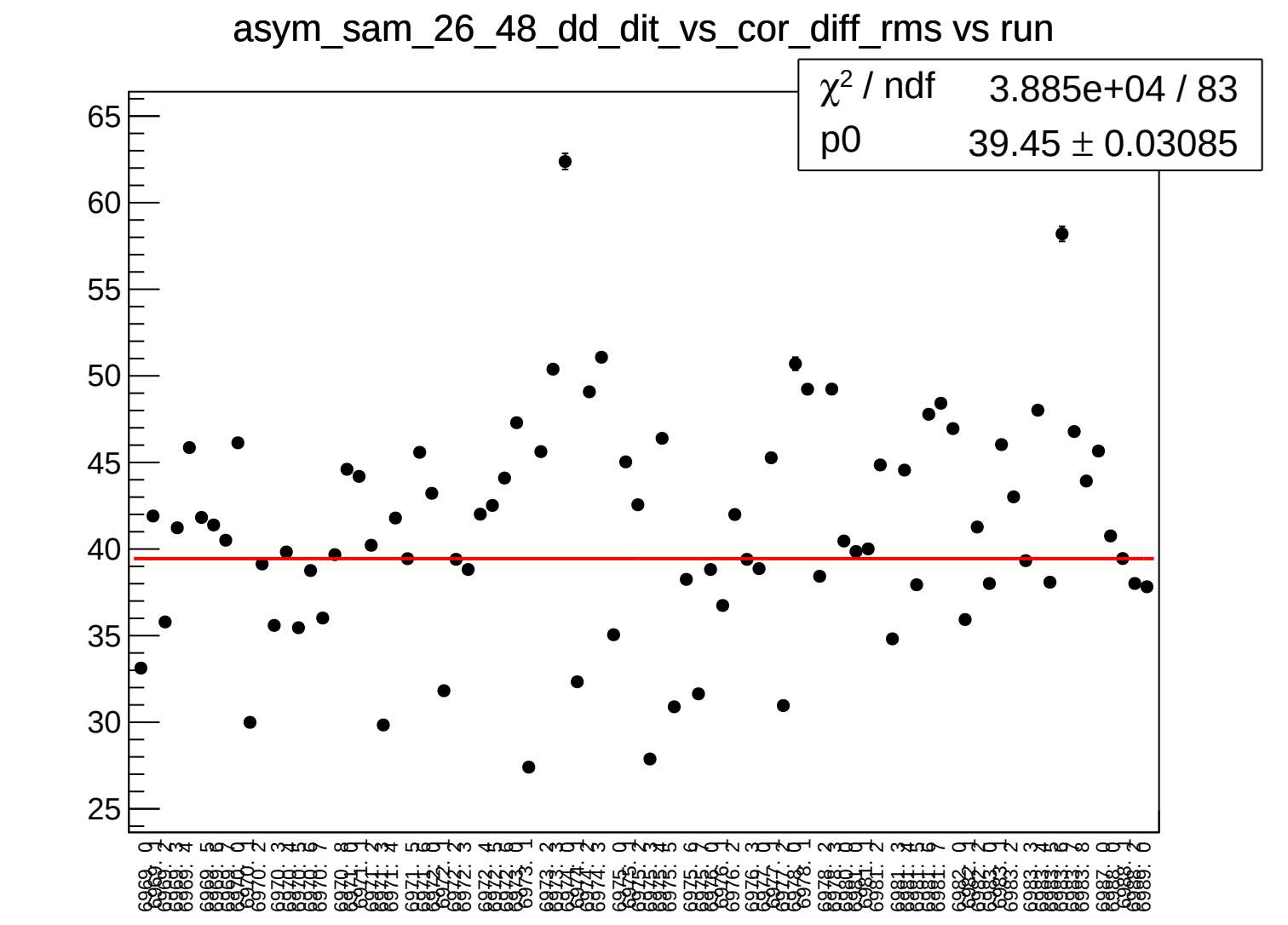

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.536e+04 / 83
p0 576.5 ± 0.4477
750
700
650
600
550
500
450

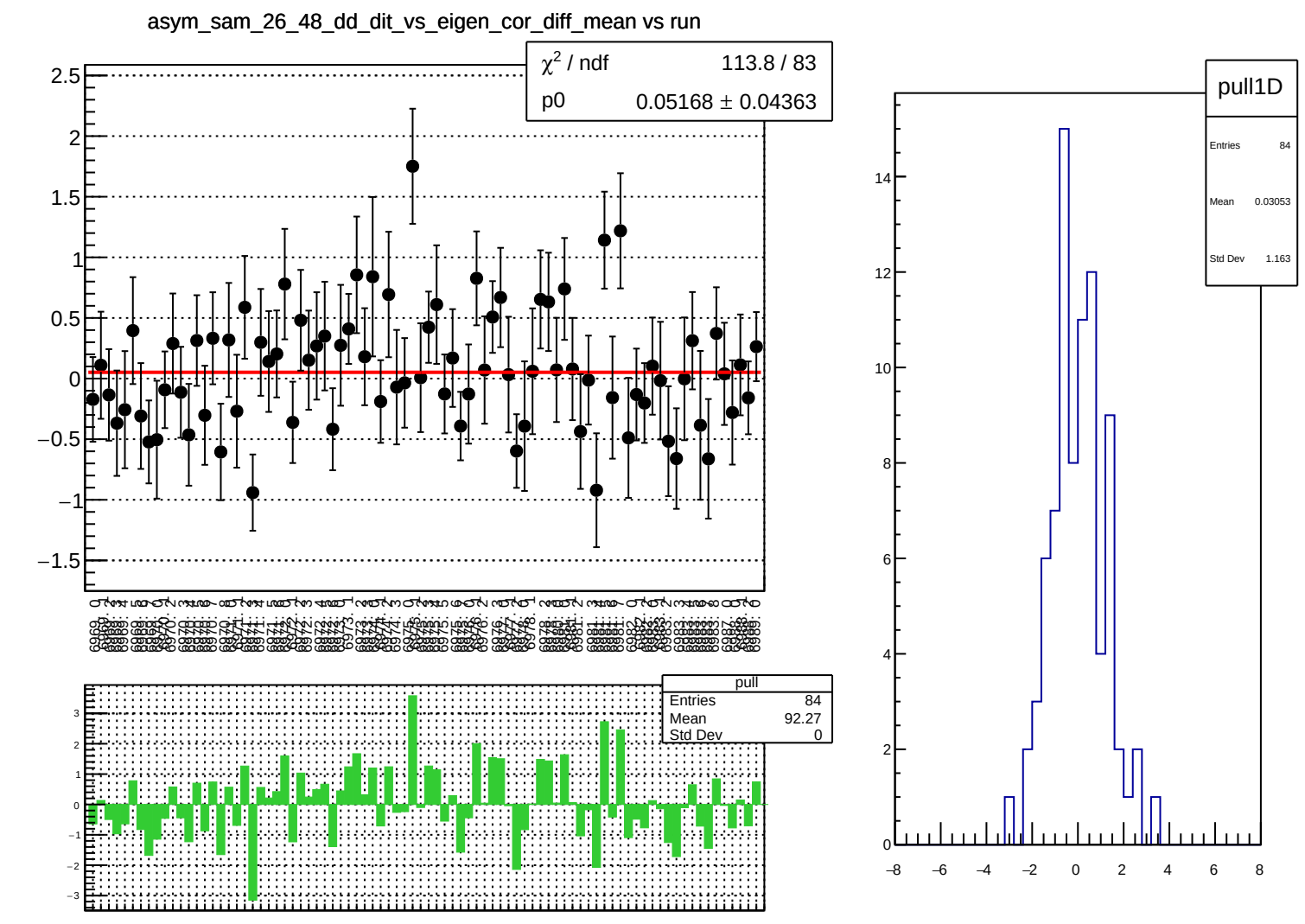

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 114.6 / 83
p0 −2.752e−14 ± 2.575e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 84
Mean 25.94
Std Dev 9.141
2
1
0
−1
−2
−3

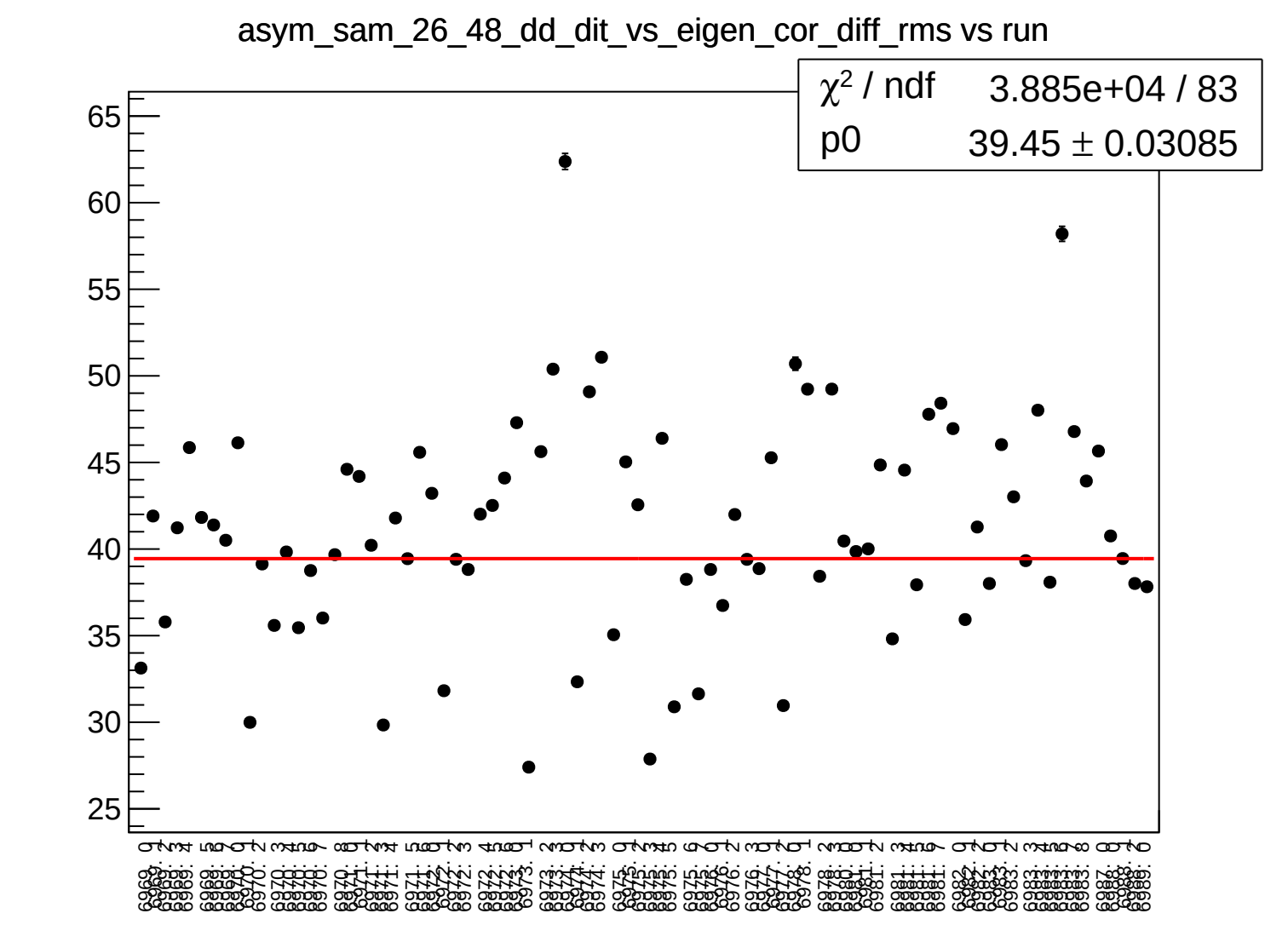

pull1D
Entries 84
Mean −0.1873
Std Dev 1.153
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

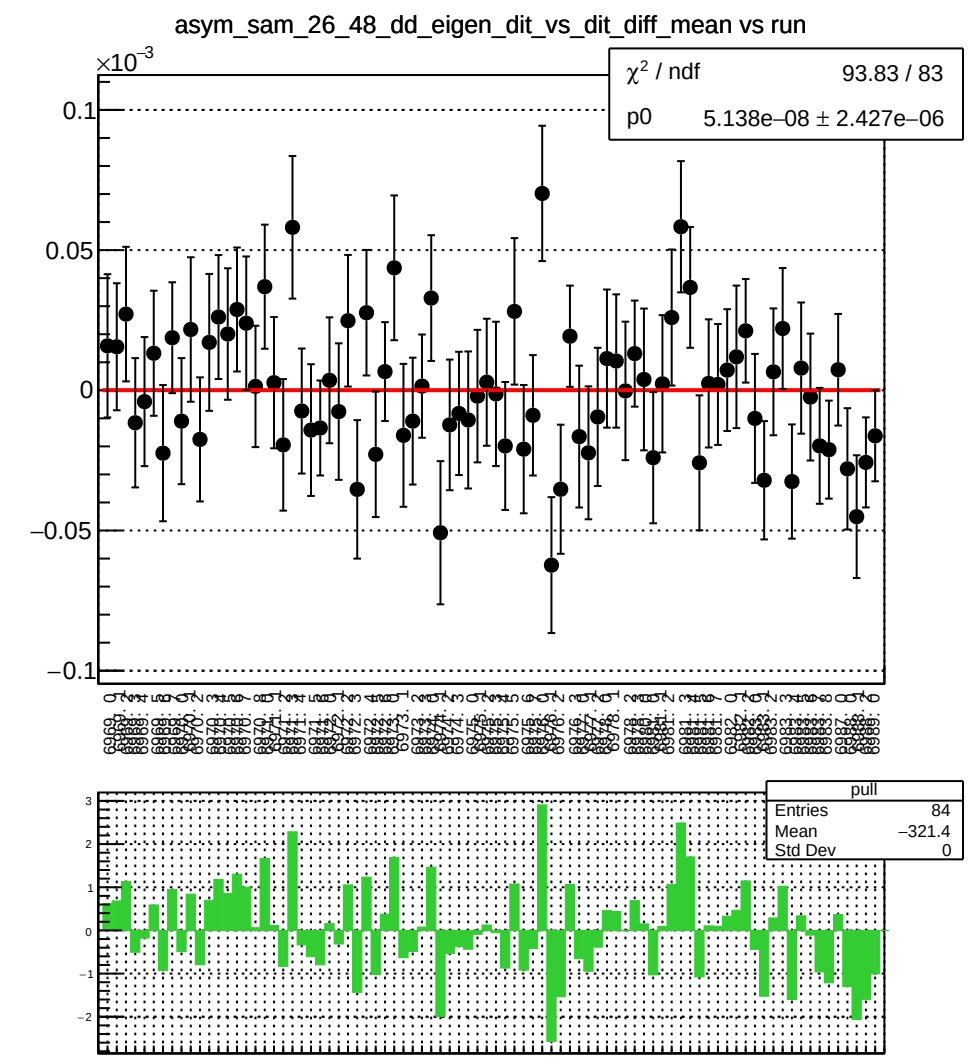

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 83
p0 1.436e−11 ± 1.821e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

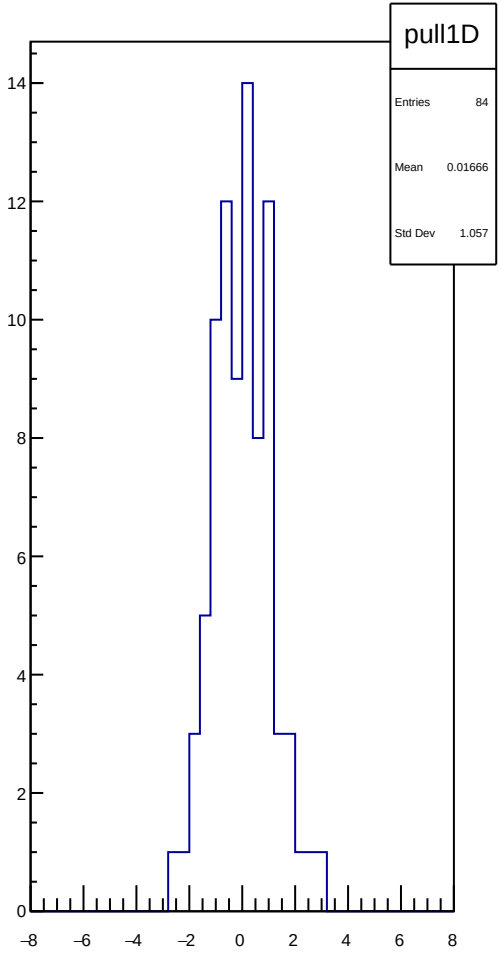

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.8 / 83
p0 0.05168 ± 0.04363
pull
Entries 84
Mean 92.27
Std Dev 0
pull1D
Entries 84
Mean 0.03053
Std Dev 1.163

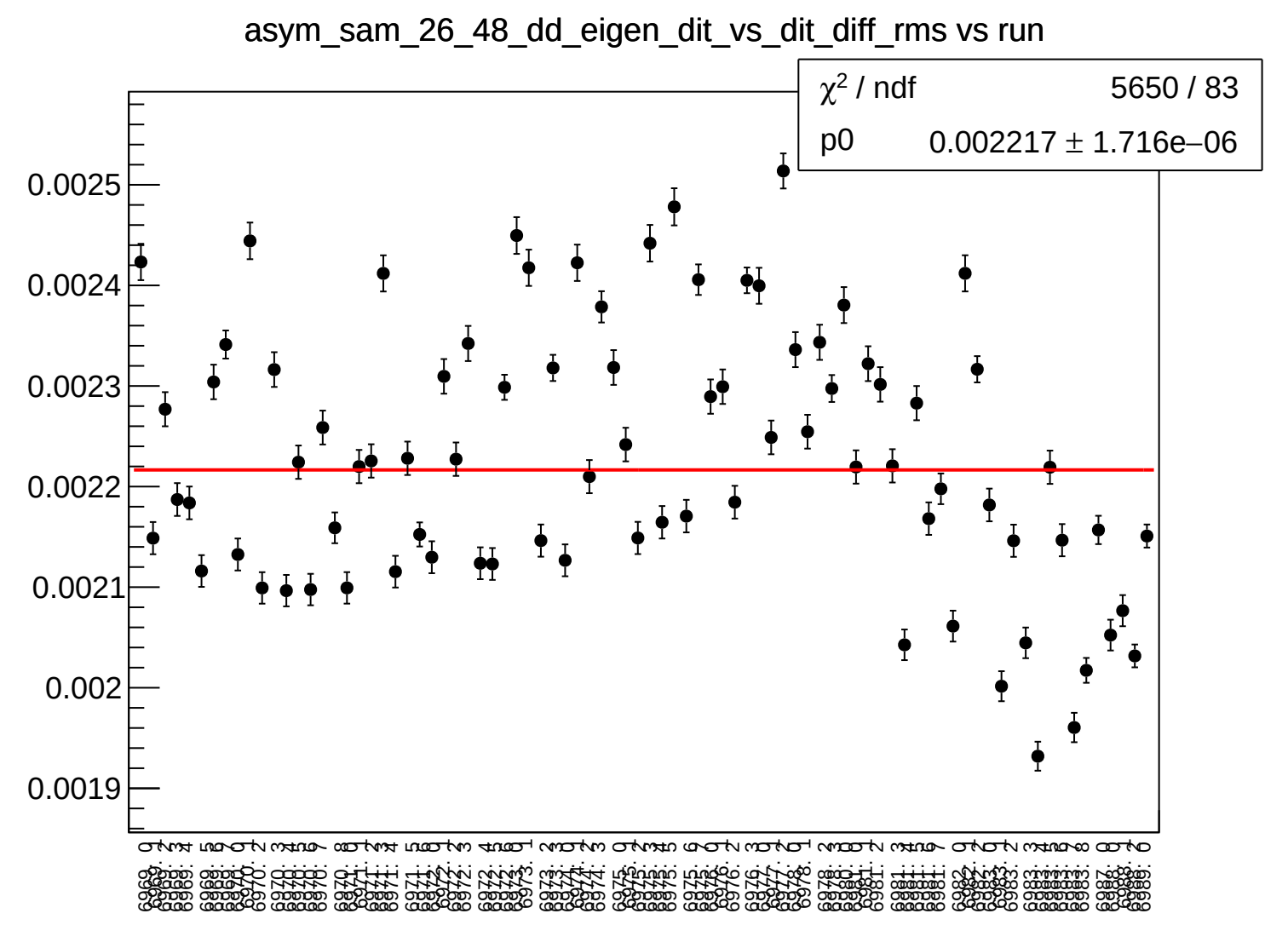

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.885e+04 / 83
p0 39.45 ± 0.03085
65
60
55
50
45
40
35
30
25

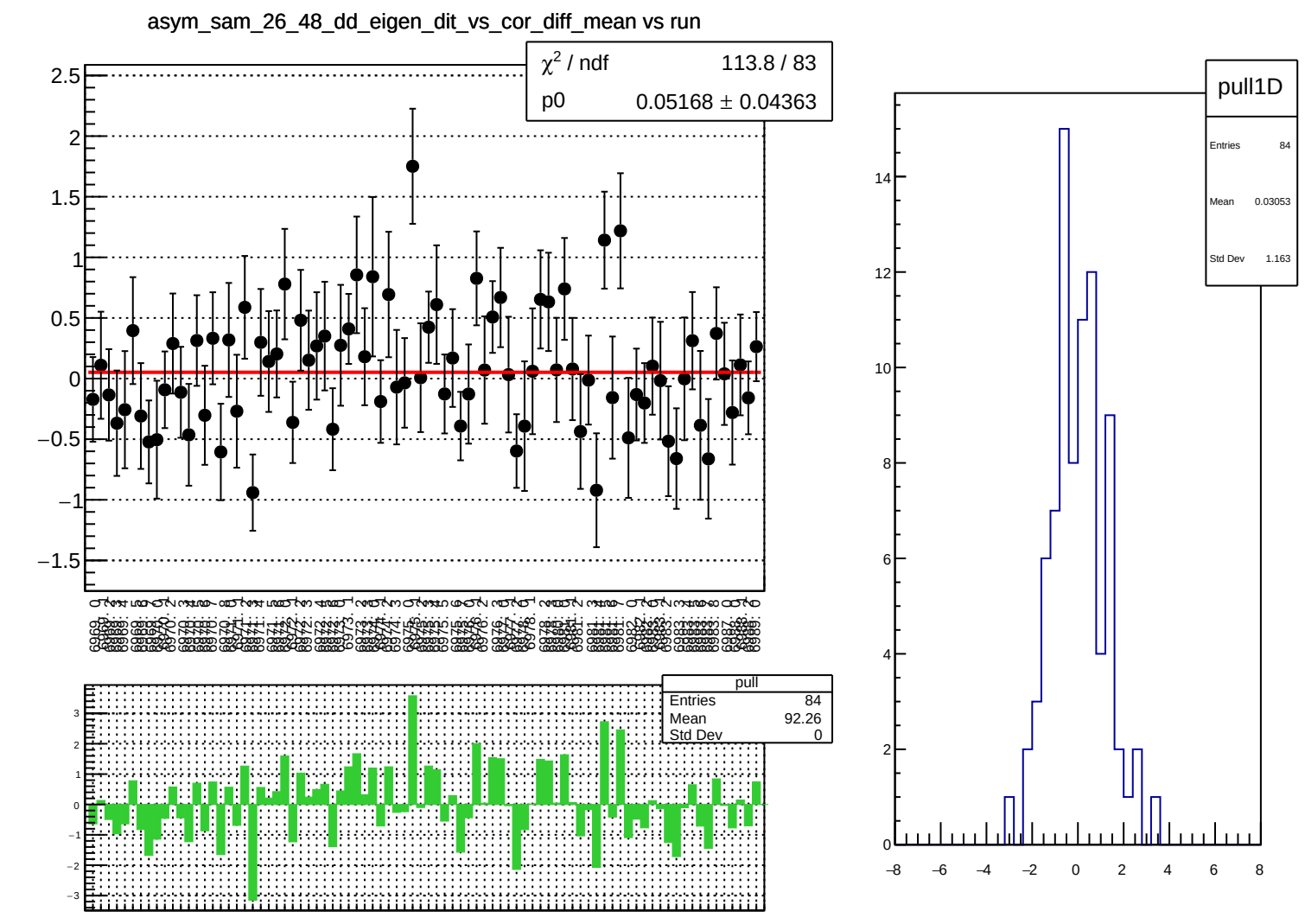

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.8 / 83
p0 0.05168 ± 0.04363
pull
Entries 84
Mean 92.27
Std Dev 0
pull1D
Entries 84
Mean 0.03053
Std Dev 1.163

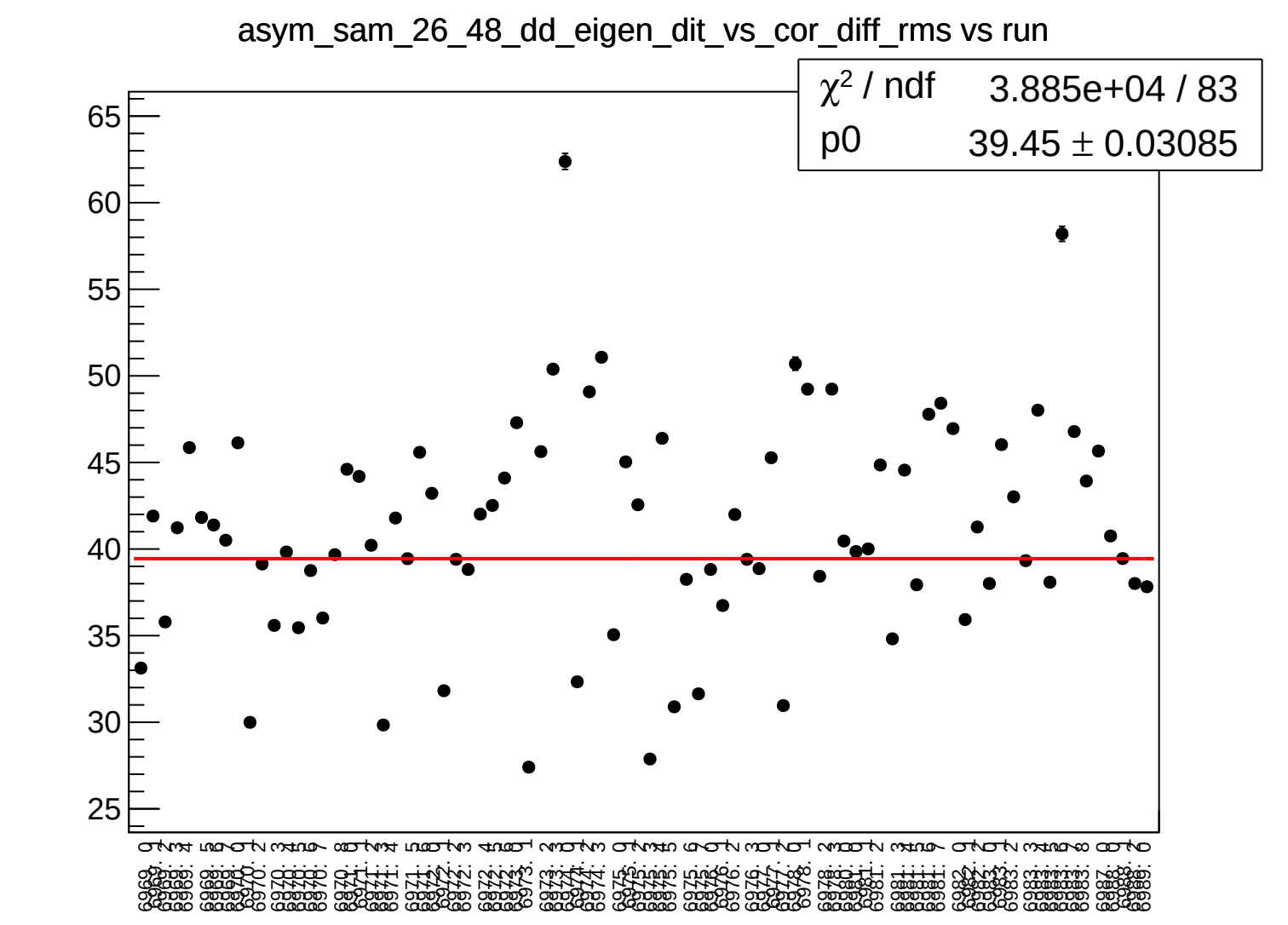

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.885e+04 / 83
p0 39.45 ± 0.03085
65
60
55
50
45
40
35
30
25

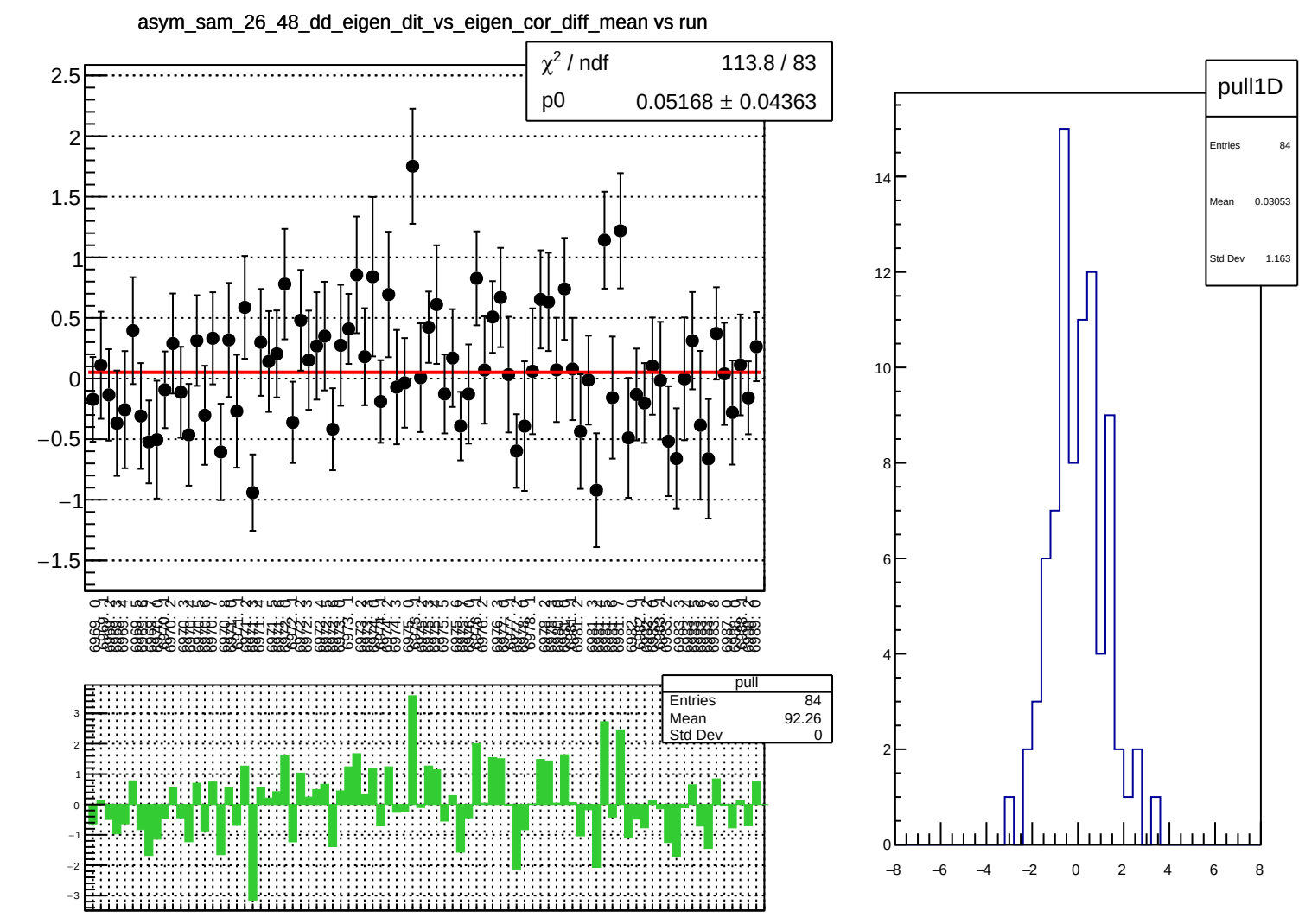

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.83 / 83
p0 5.138e−08 ± 2.427e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean −321.4
Std Dev 0
3
2
1
0
−1
−2

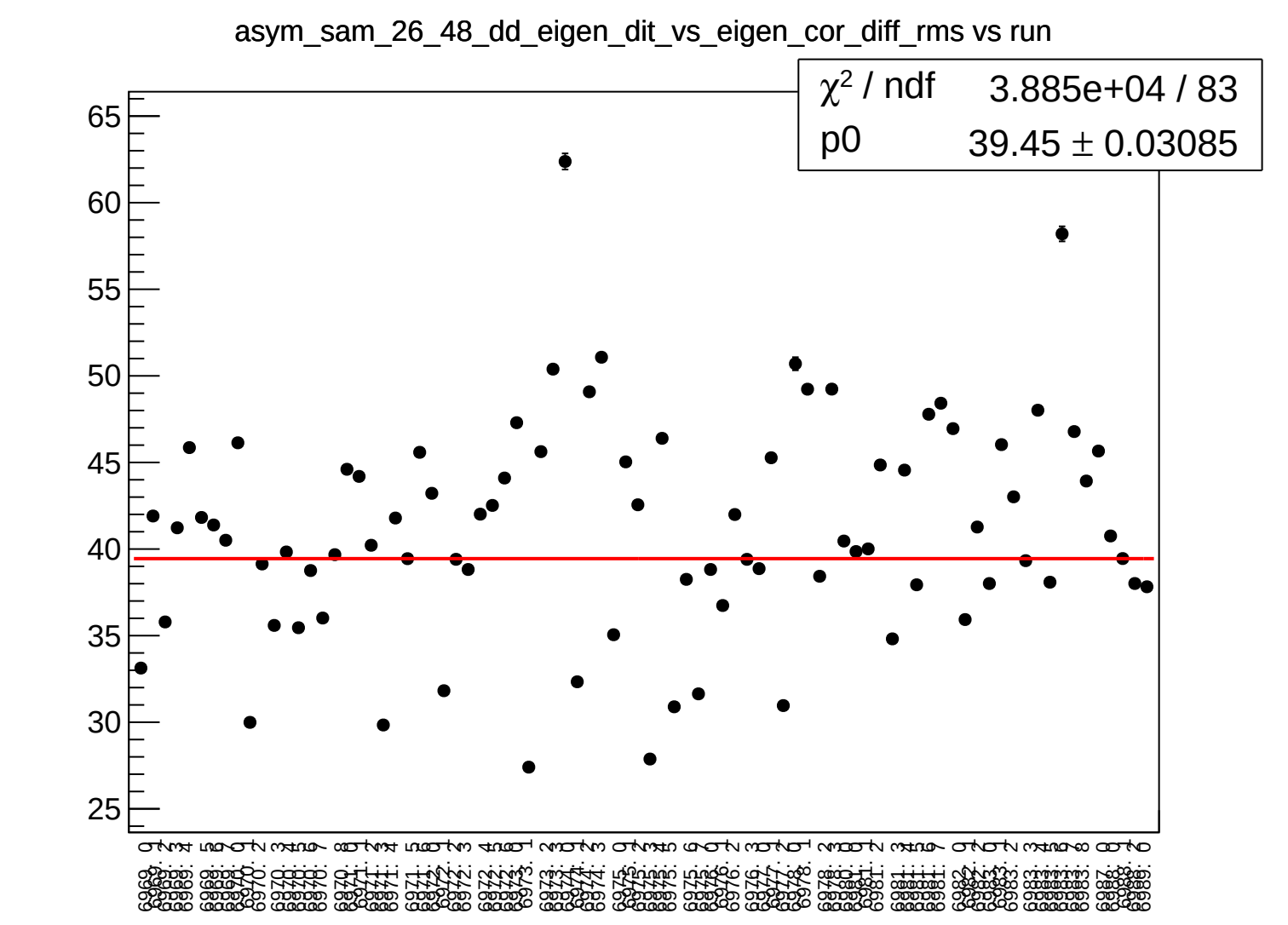

pull1D
Entries 84
Mean 0.01666
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

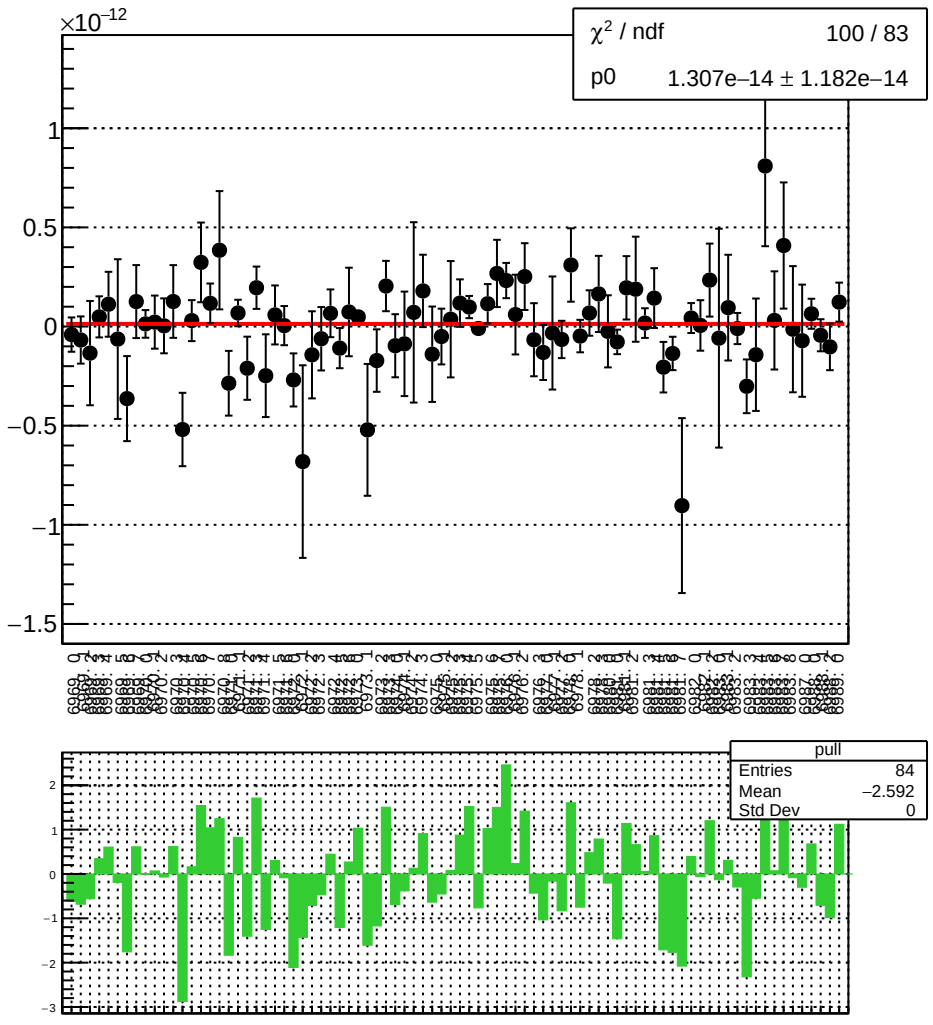

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5650 / 83
p0 0.002217 ± 1.716e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

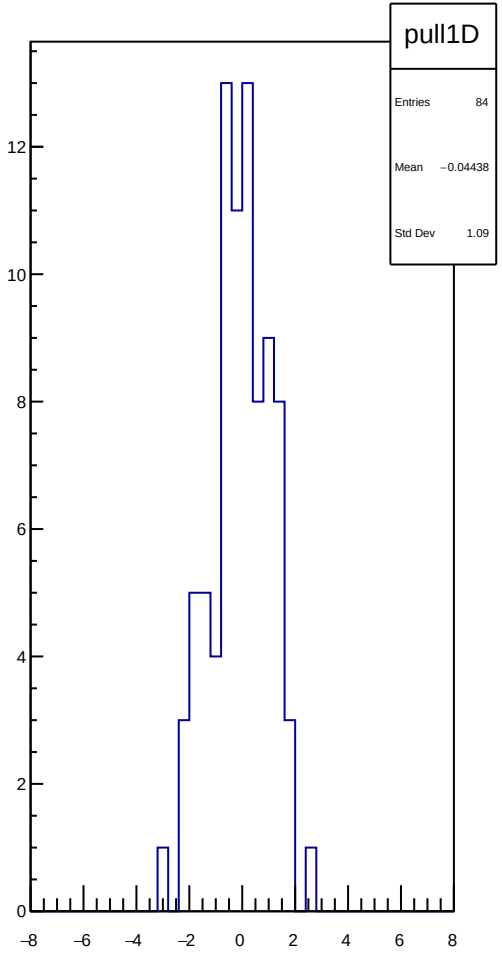

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.8 / 83
p0 0.05168 ± 0.04363
pull
Entries 84
Mean 92.26
Std Dev 0
pull1D
Entries 84
Mean 0.03053
Std Dev 1.163

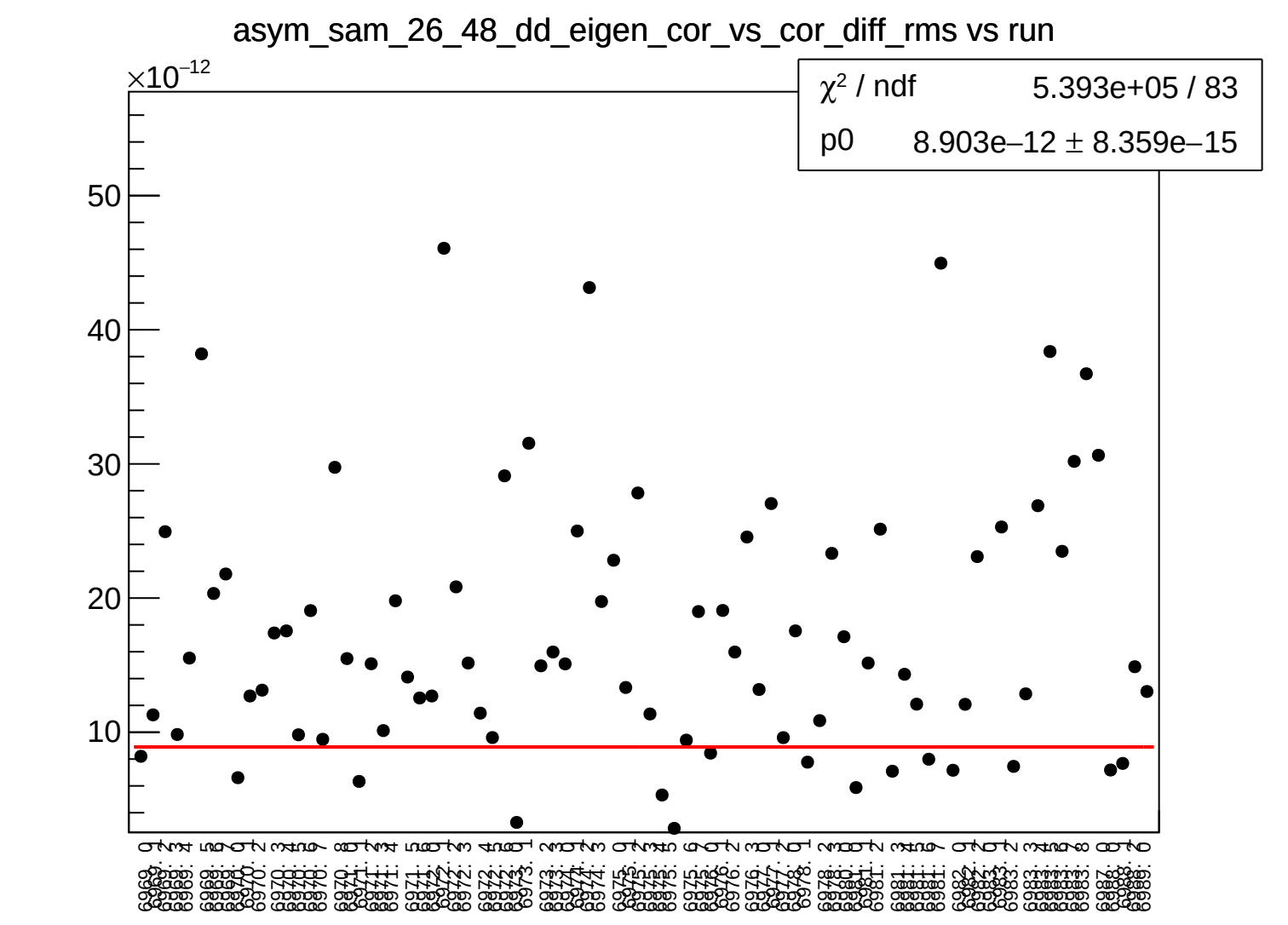

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.885e+04 / 83
p0 39.45 ± 0.03085
65
60
55
50
45
40
35
30
25

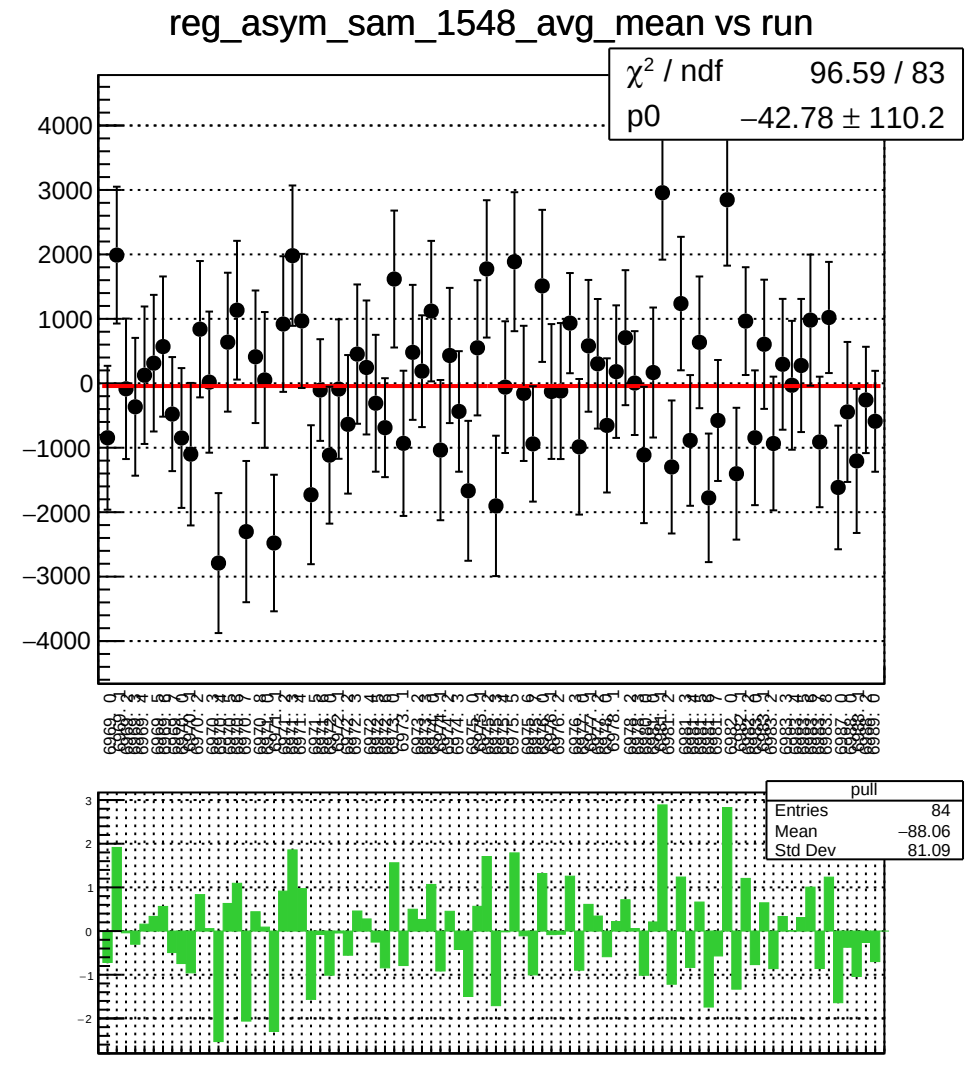

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.8 / 83
p0 0.05168 ± 0.04363
pull
Entries 84
Mean 92.26
Std Dev 0
pull1D
Entries 84
Mean 0.03053
Std Dev 1.163

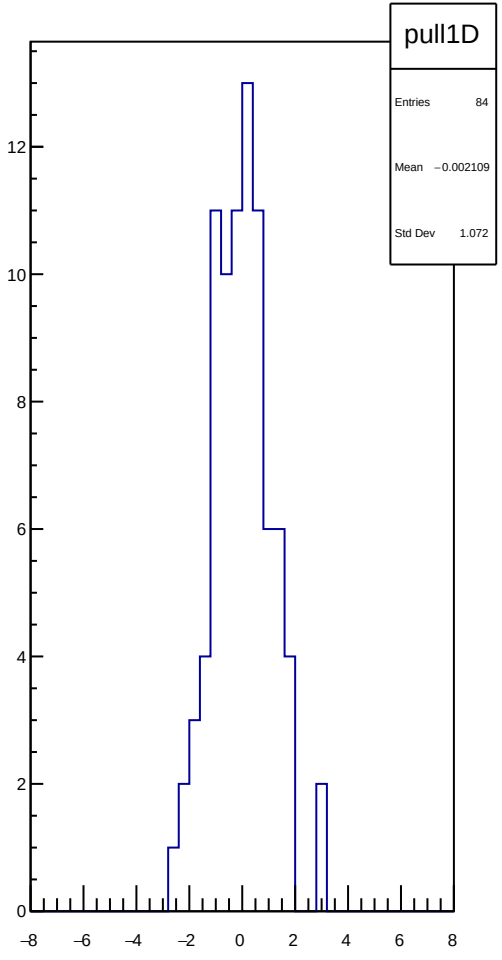

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.885e+04 / 83
p0 39.45 ± 0.03085
65
60
55
50
45
40
35
30
25

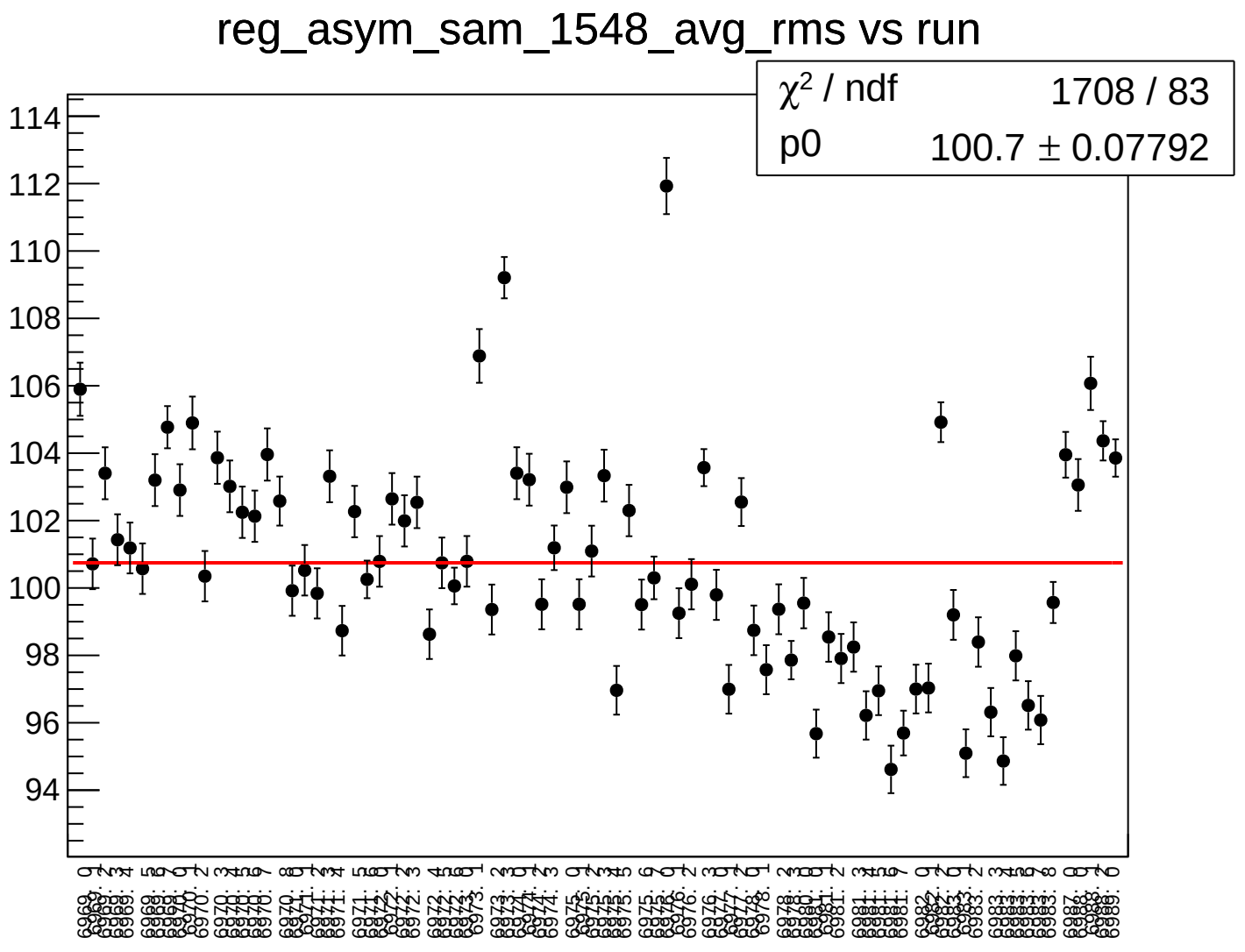

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100 / 83
p0 1.307e−14 ± 1.182e−14
pull
Entries 84
Mean −2.592
Std Dev 0

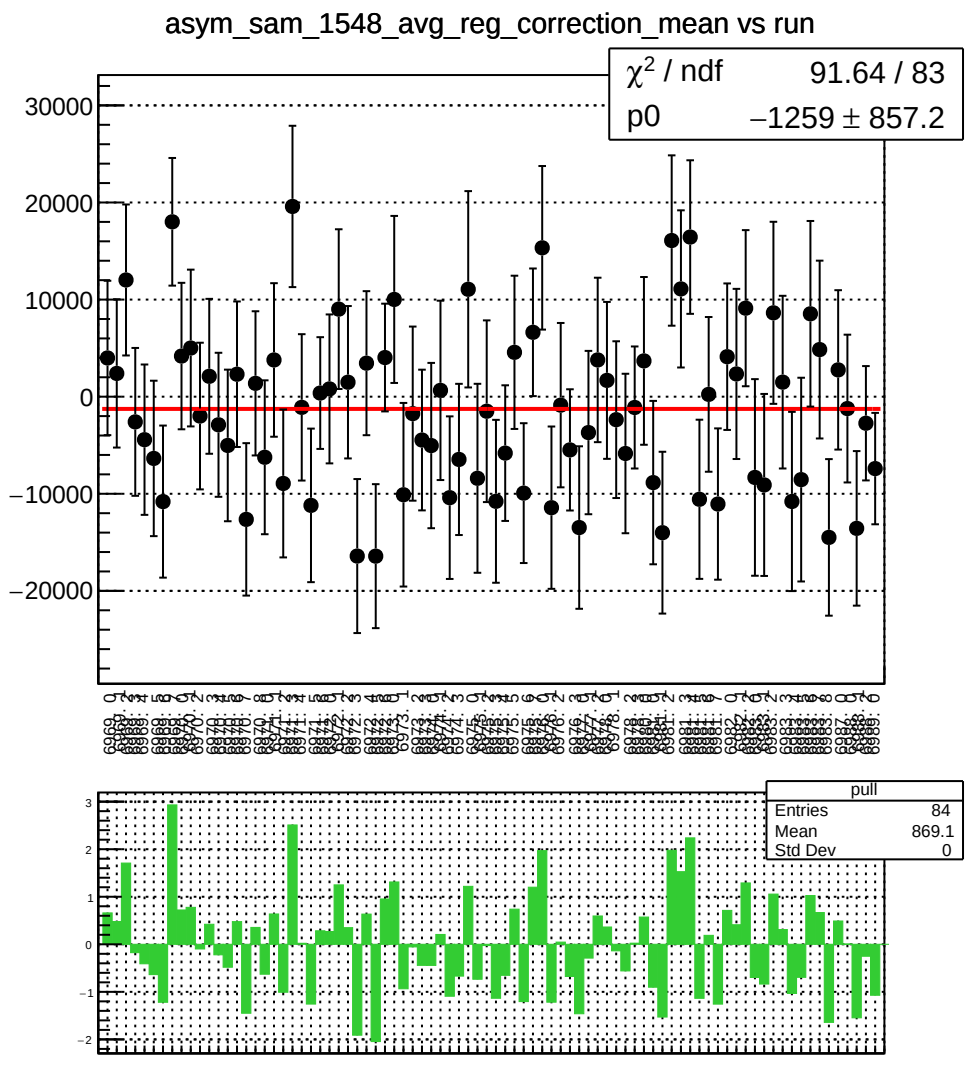

pull1D
Entries 84
Mean −0.04438
Std Dev 1.09

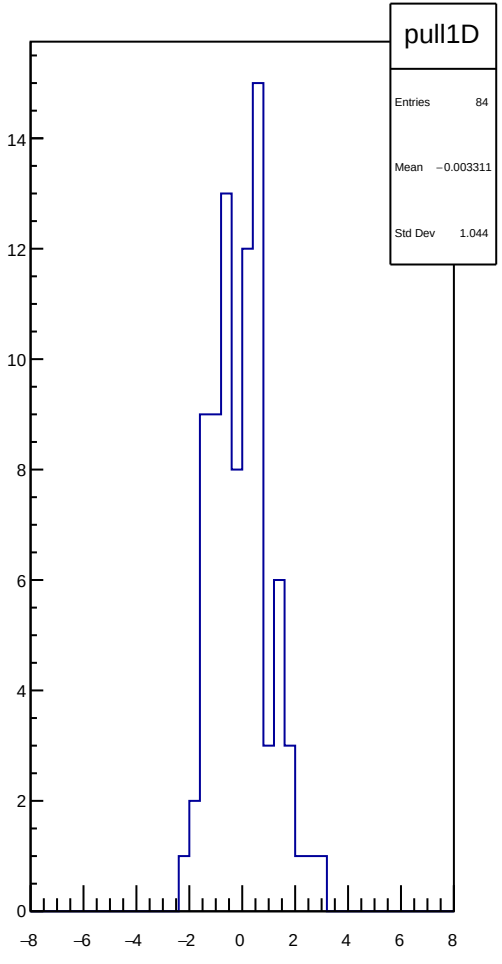

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.393e+05 / 83
p0 8.903e−12 ± 8.359e−15
50
40
30
20
10

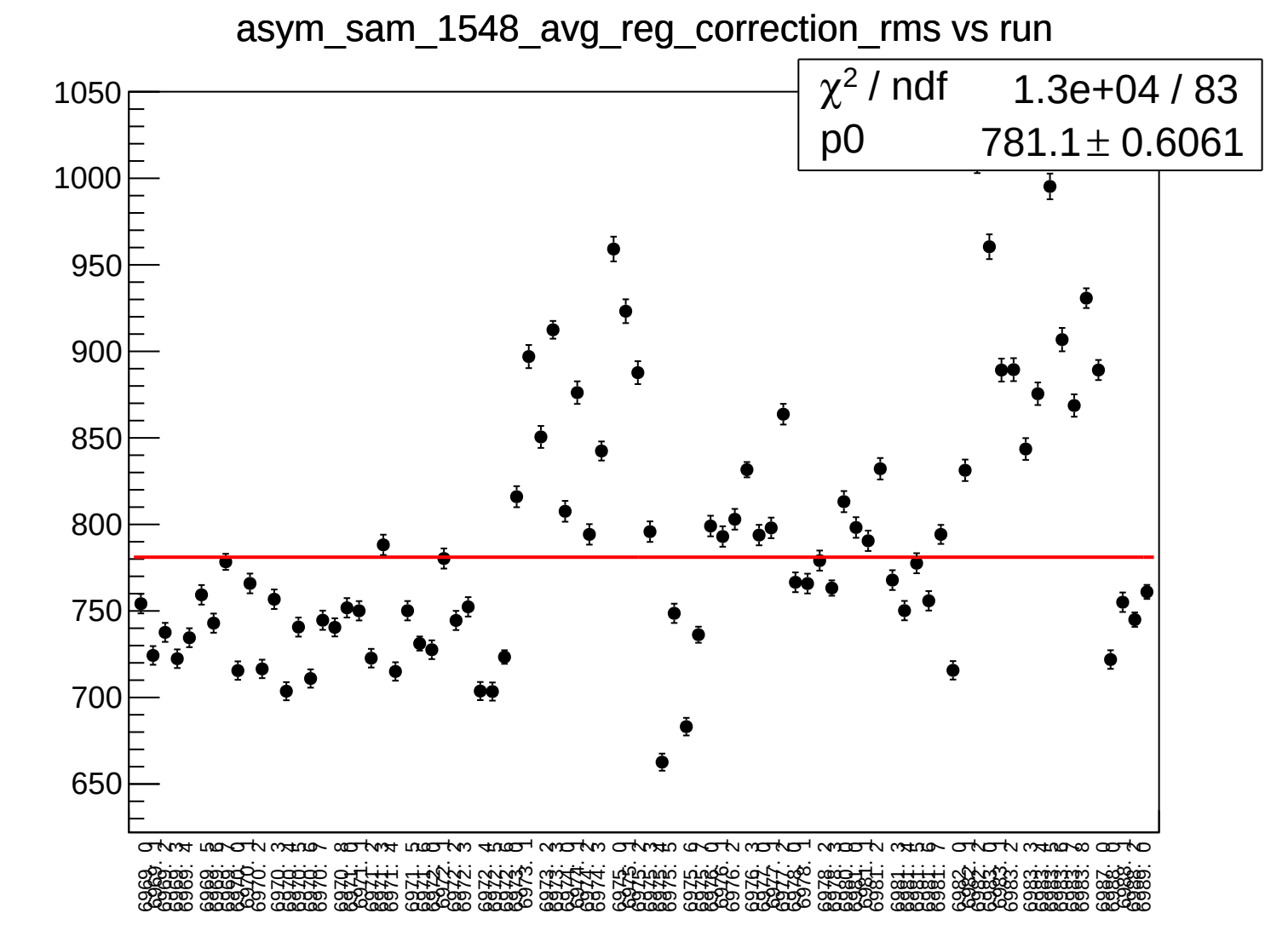

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 96.59 / 83
p0 −42.78 ± 110.2
pull
Entries 84
Mean −88.06
Std Dev 81.09

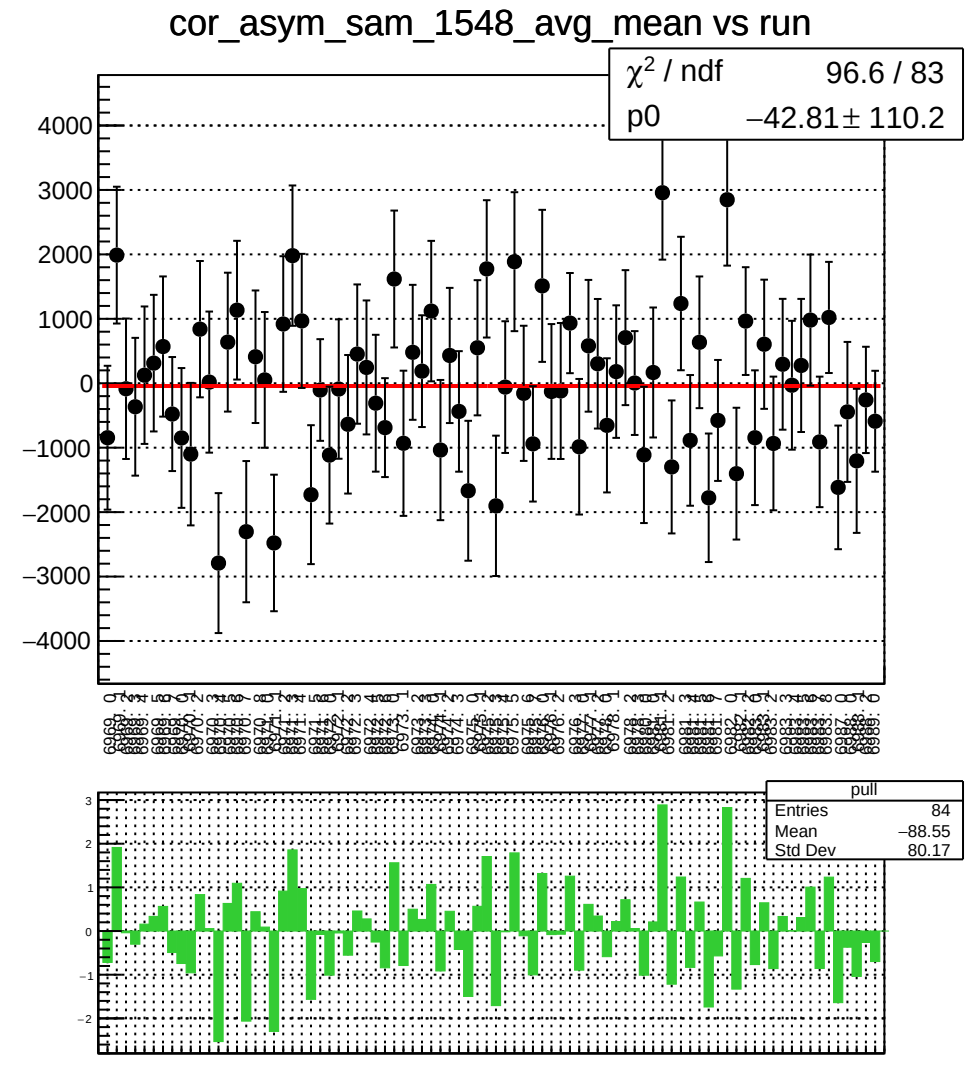

pull1D
Entries 84
Mean −0.002109
Std Dev 1.072

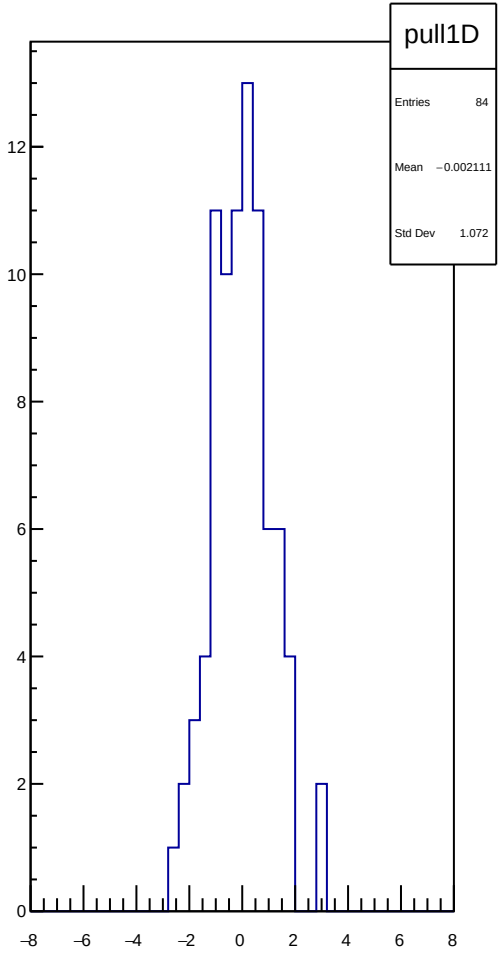

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1708 / 83
p0 100.7 ± 0.07792
114
112
110
108
106
104
102
100
98
96
94

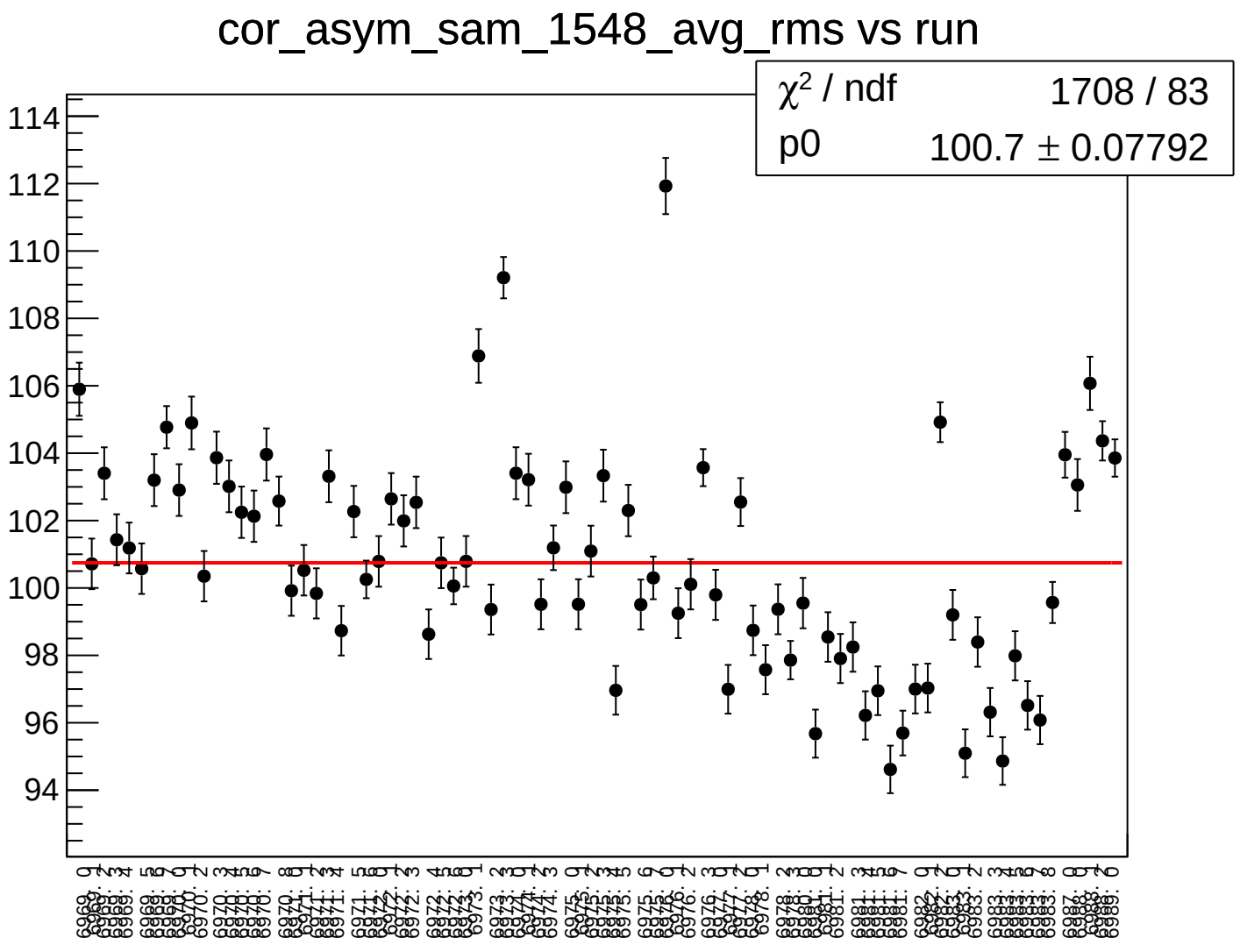

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 91.64 / 83
p0 −1259 ± 857.2
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 869.1
Std Dev 0
3
2
1
0
−1
−2

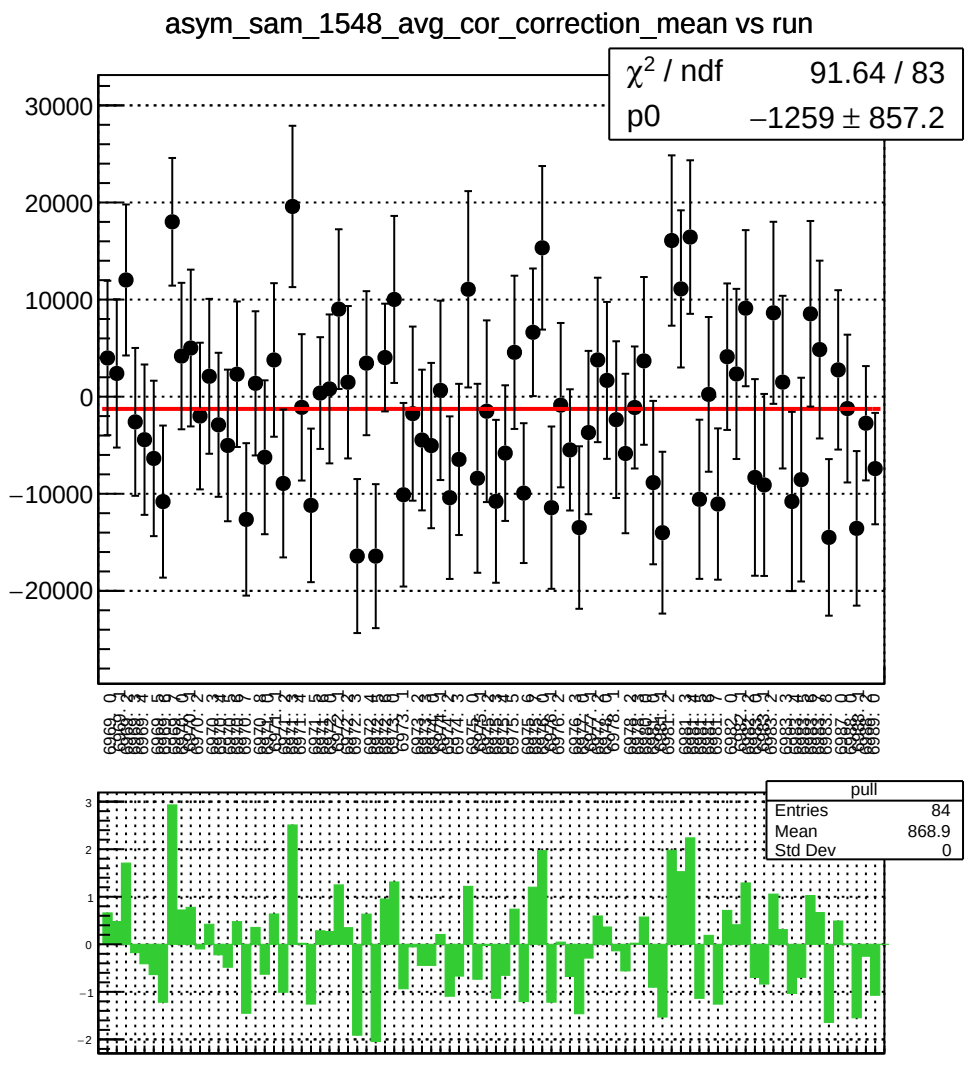

pull1D
Entries 84
Mean −0.003311
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

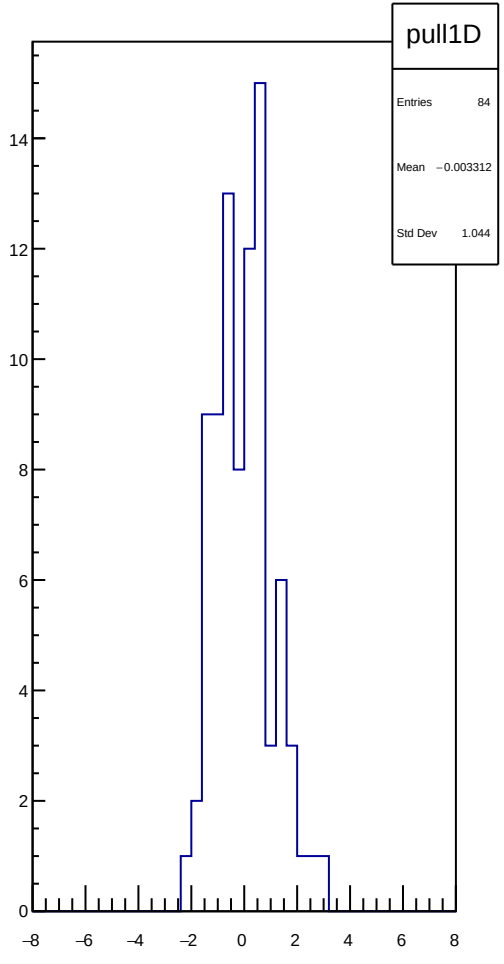

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.3e+04 / 83
p0 781.1 ± 0.6061
1050
1000
950
900
850
800
750
700
650

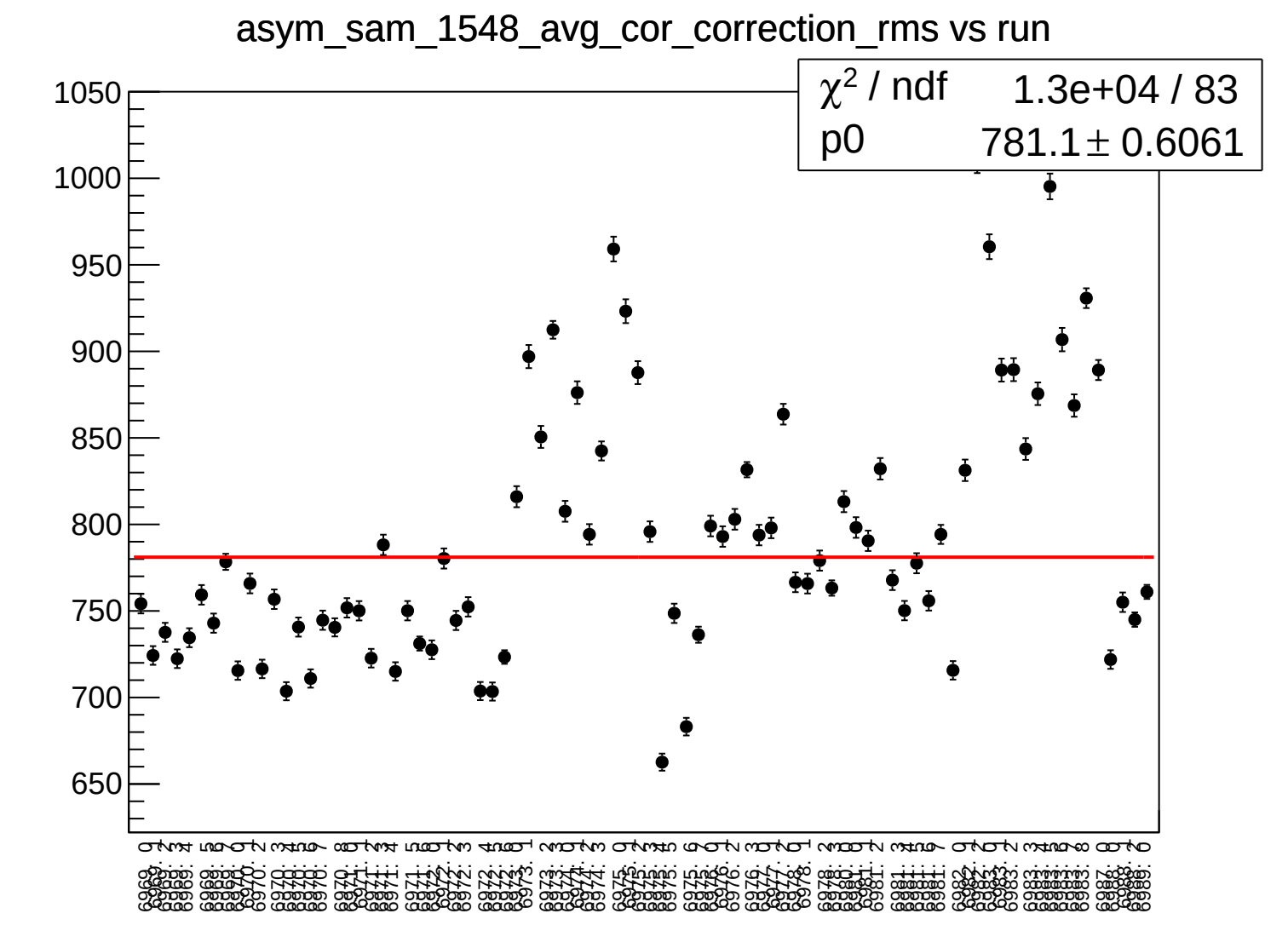

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 96.6 / 83
p0 −42.81 ± 110.2
pull
Entries 84
Mean −88.55
Std Dev 80.17

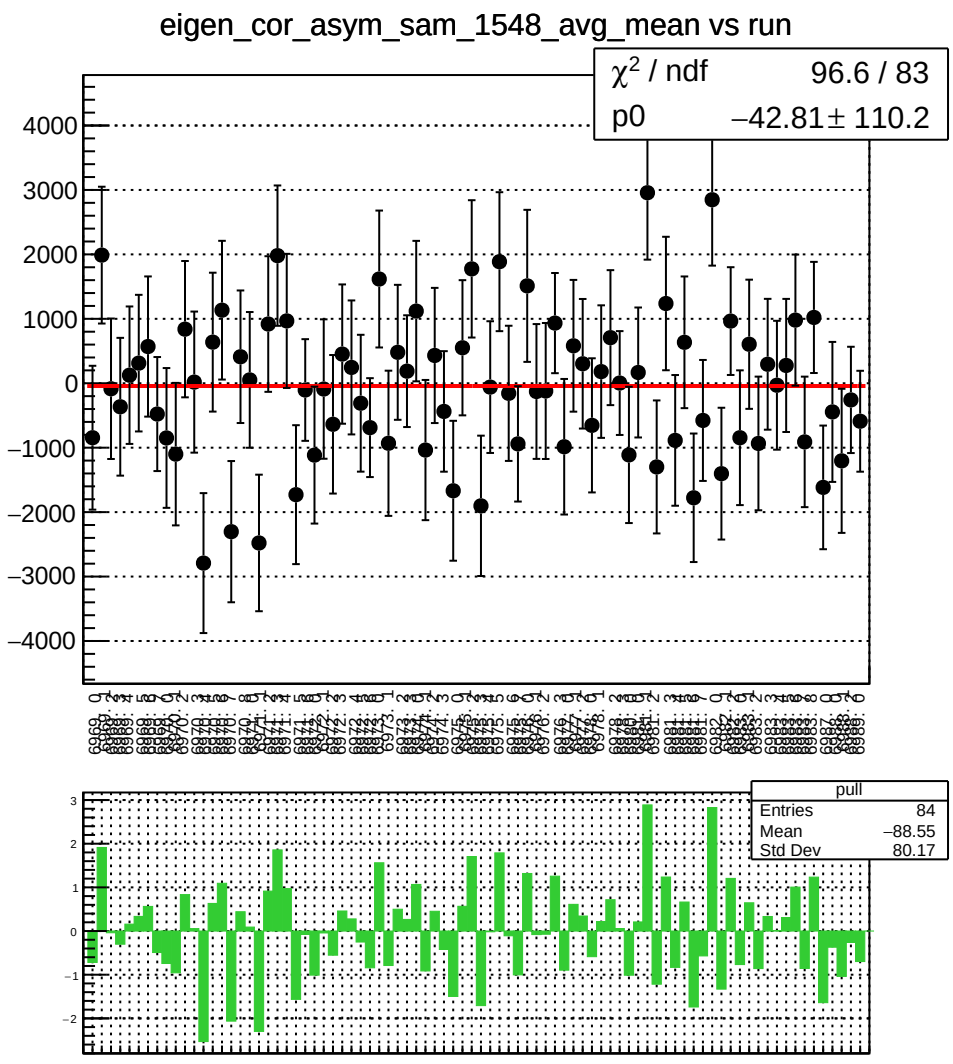

pull1D
Entries 84
Mean −0.002111
Std Dev 1.072

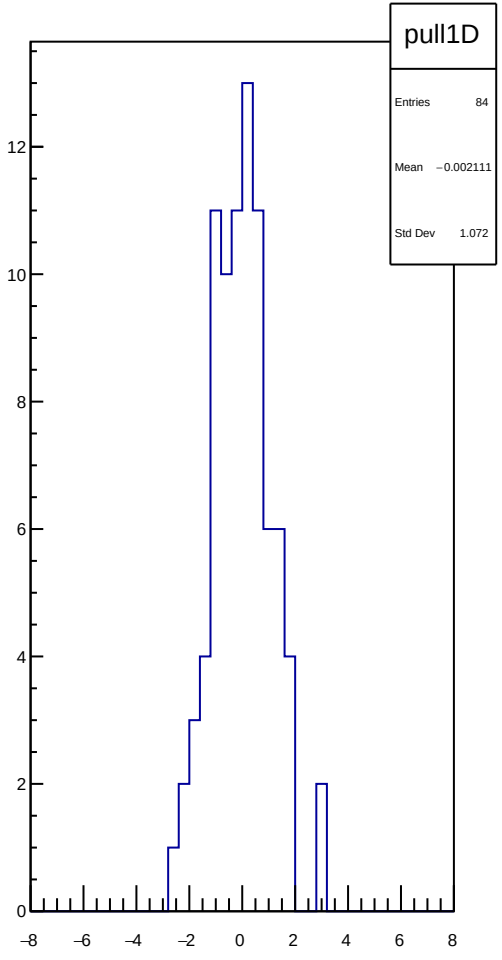

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1708 / 83
p0 100.7 ± 0.07792
114
112
110
108
106
104
102
100
98
96
94

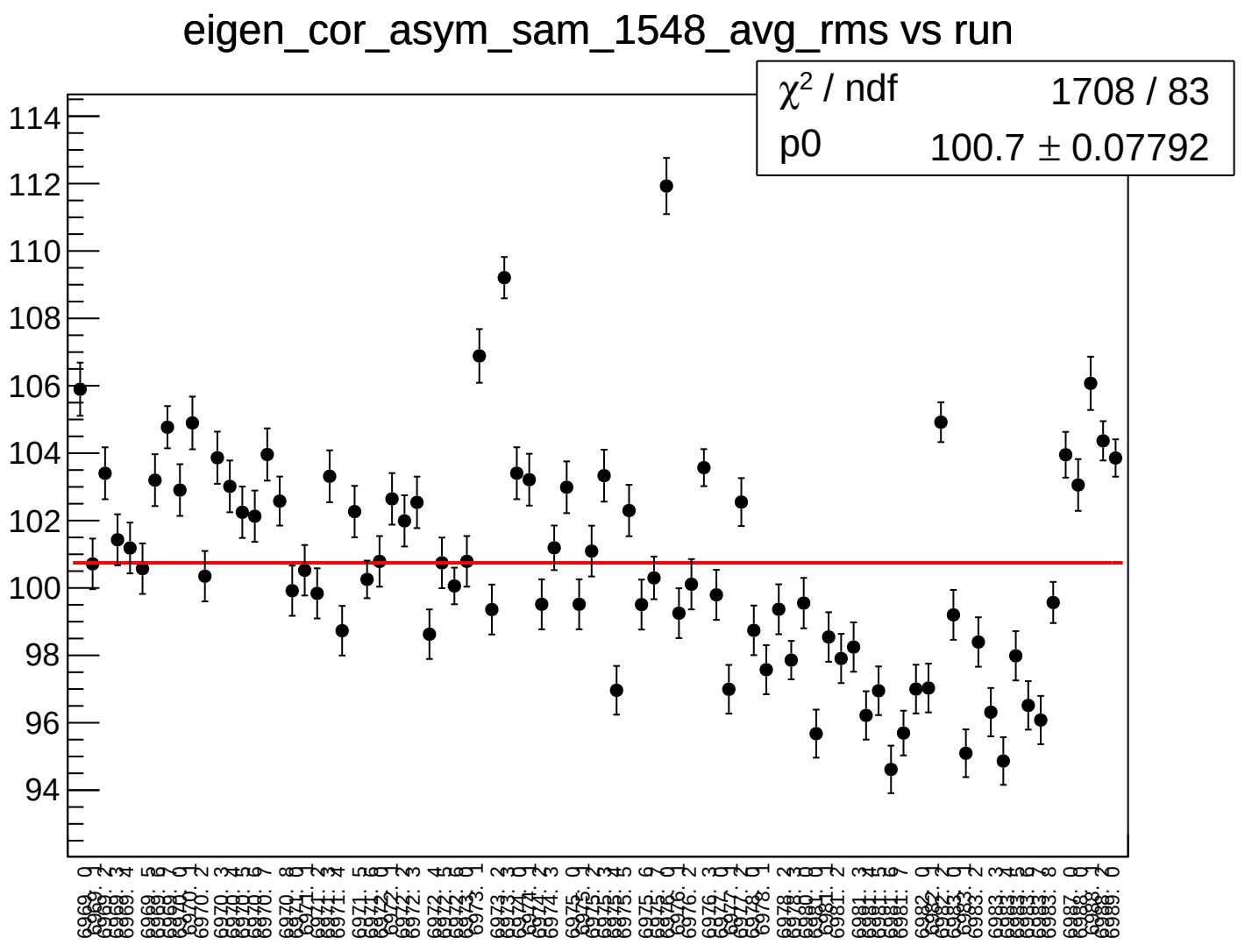

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 91.64 / 83
p0 −1259 ± 857.2
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 868.9
Std Dev 0
3
2
1
0
−1
−2

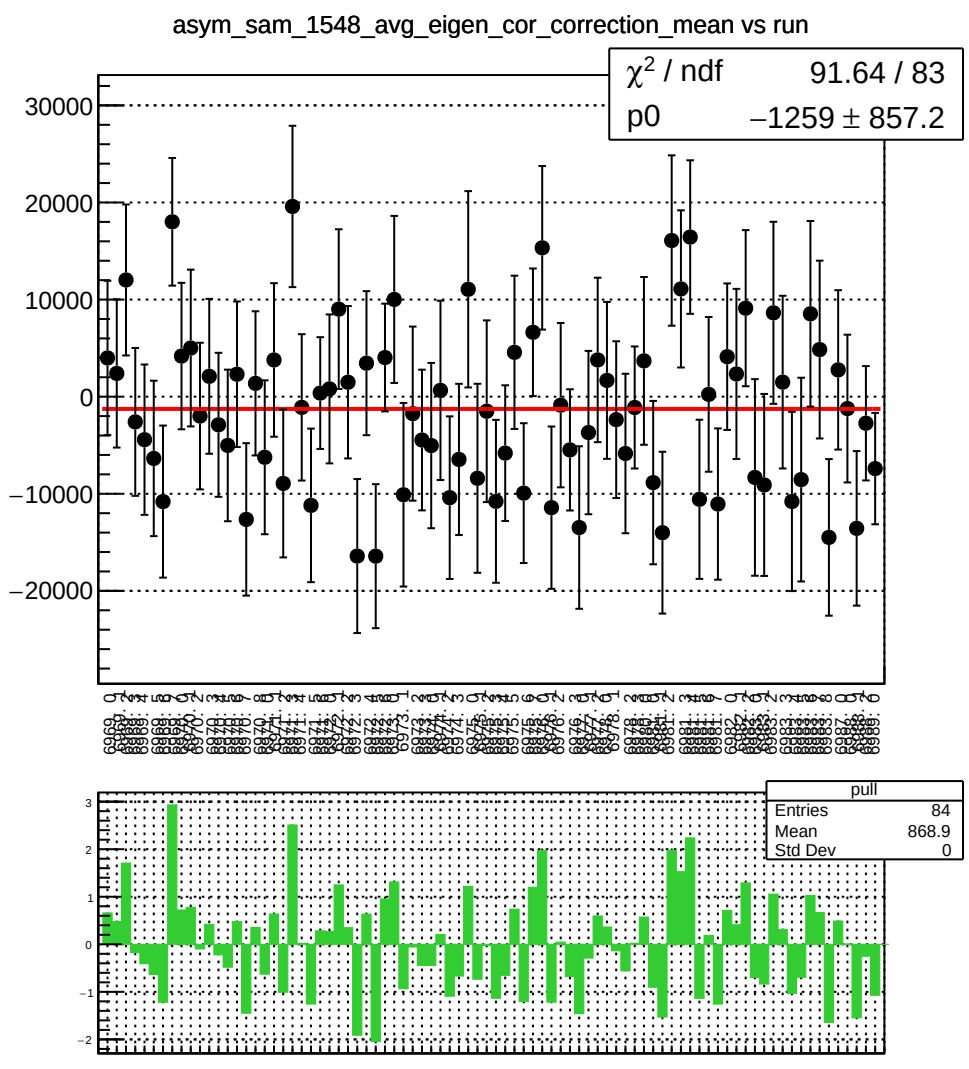

pull1D
Entries 84
Mean −0.003312
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

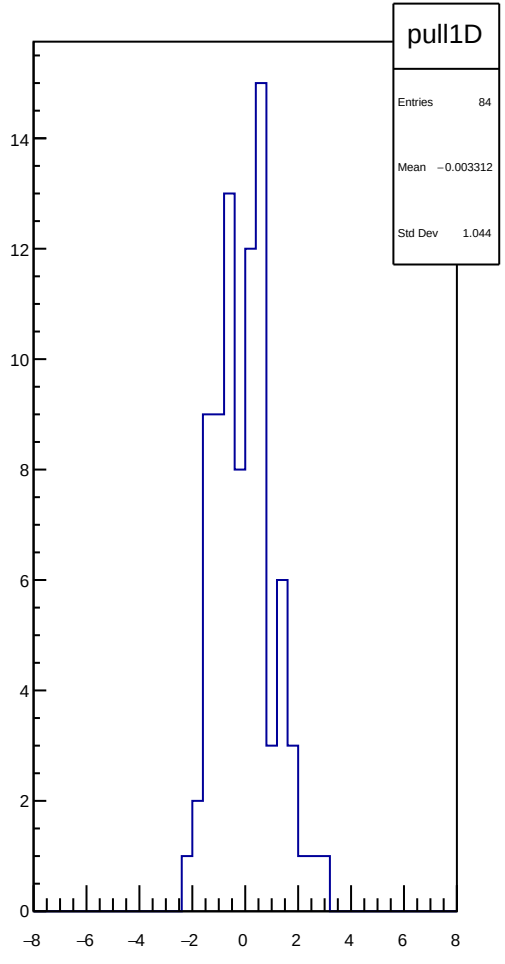

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.3e+04 / 83
p0 781.1 ± 0.6061
1050
1000
950
900
850
800
750
700
650

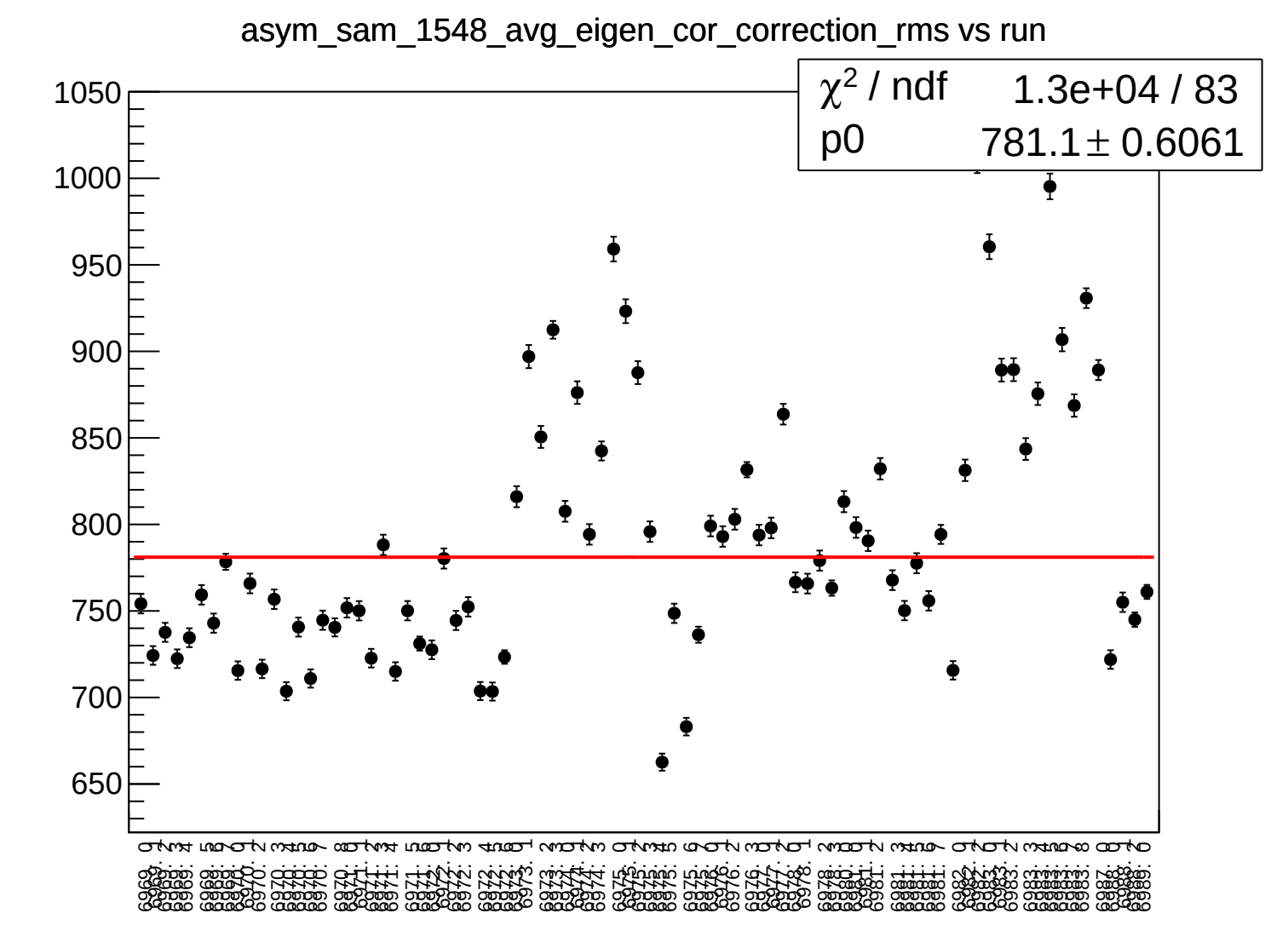

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 96.6 / 83
p0 −42.81 ± 110.2
pull
Entries 84
Mean −88.55
Std Dev 80.17

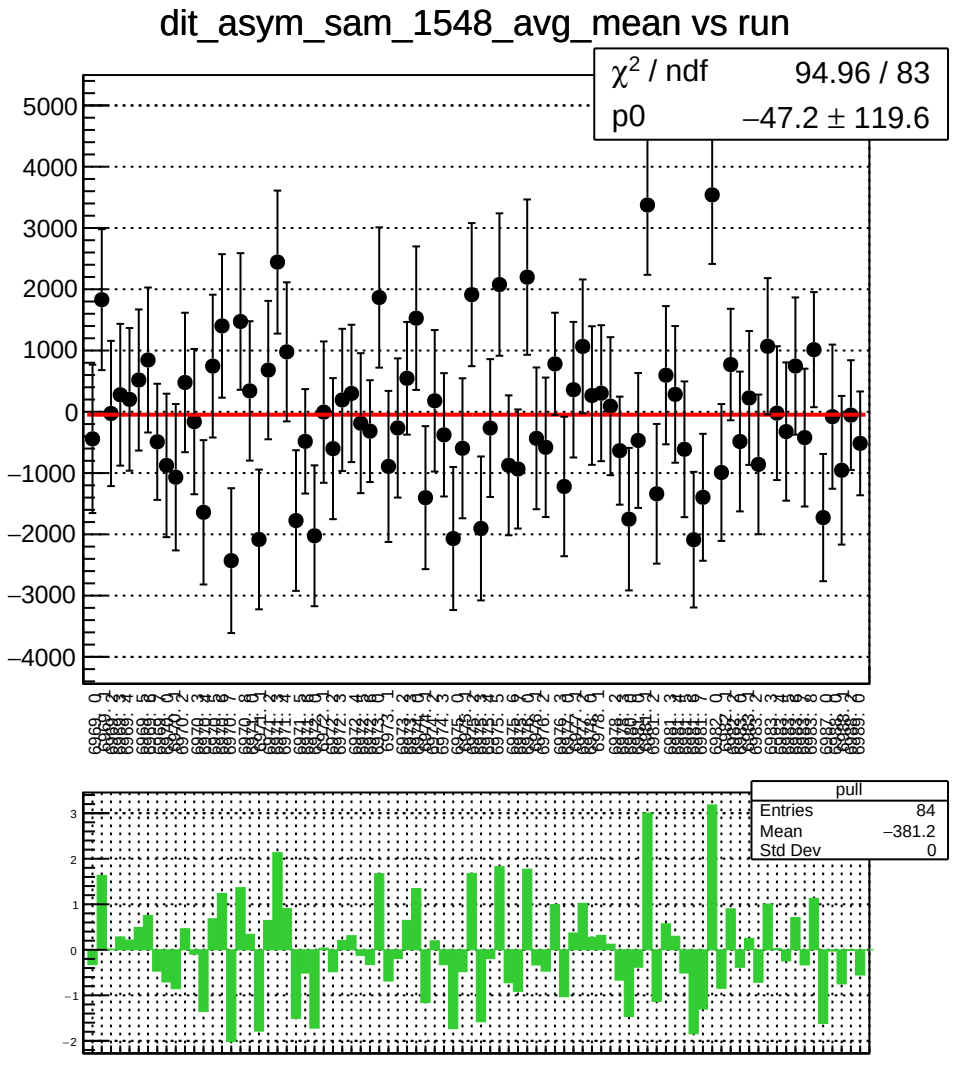

pull1D
Entries 84
Mean −0.002111
Std Dev 1.072

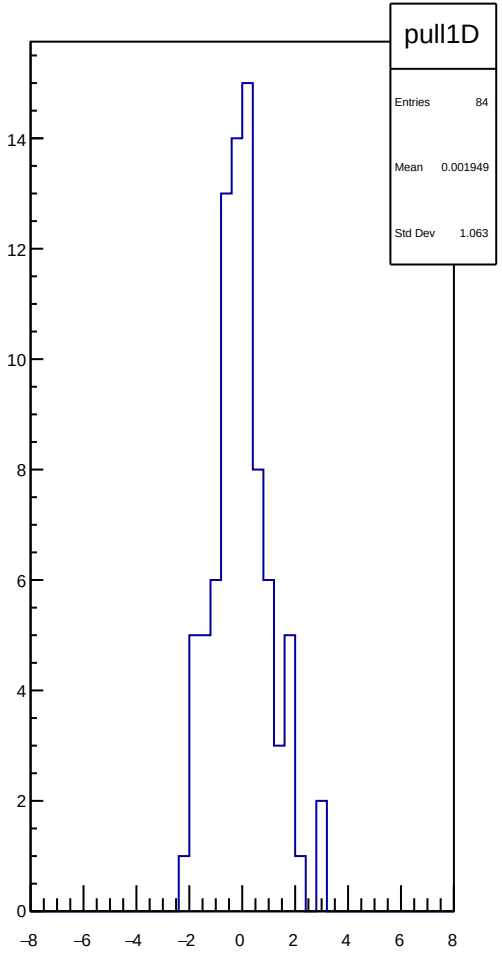

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1708 / 83
p0 100.7 ± 0.07792
114
112
110
108
106
104
102
100
98
96
94

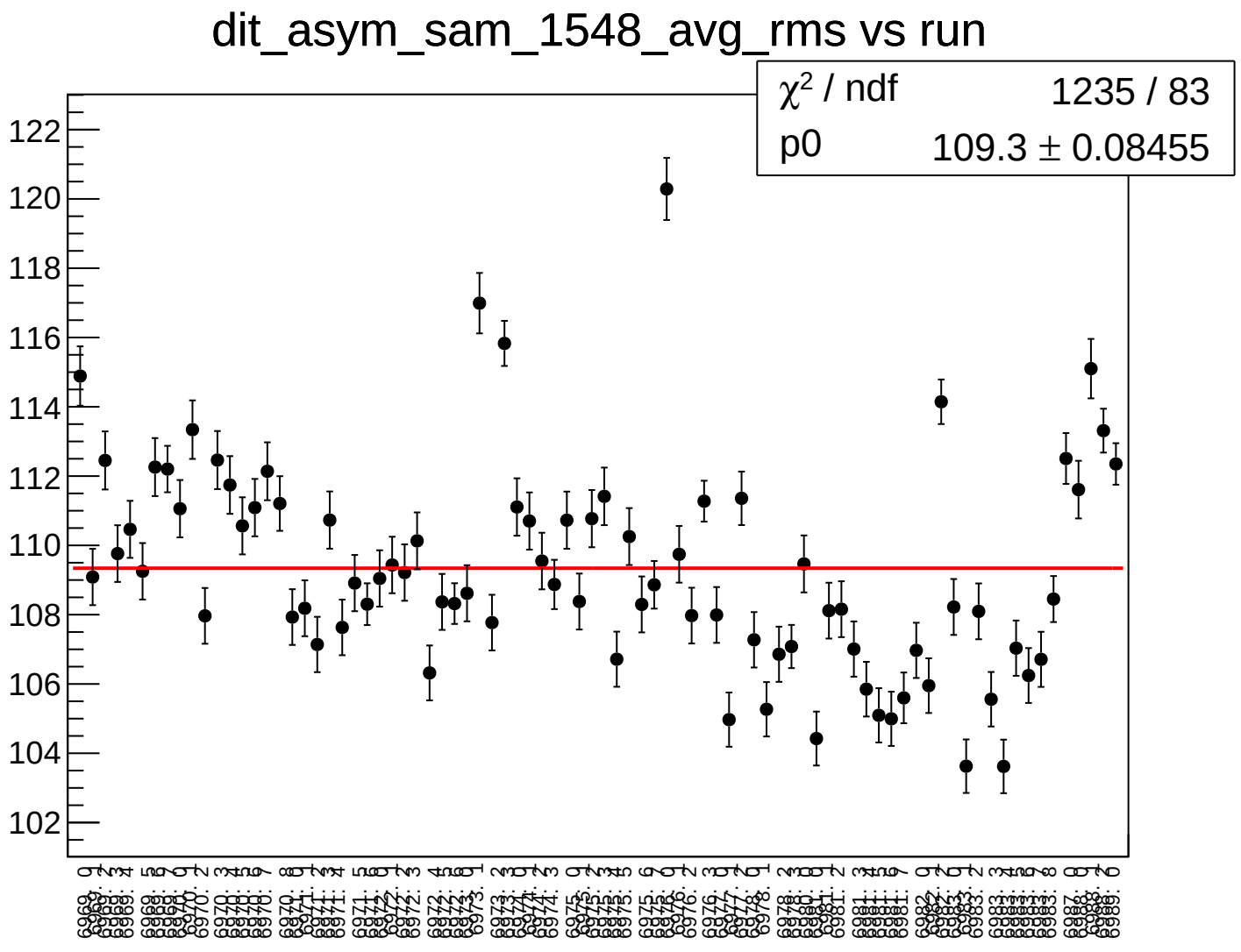

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.64 / 83
p0 −1259 ± 857.2
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 868.9
Std Dev 0
3
2
1
0
−1
−2

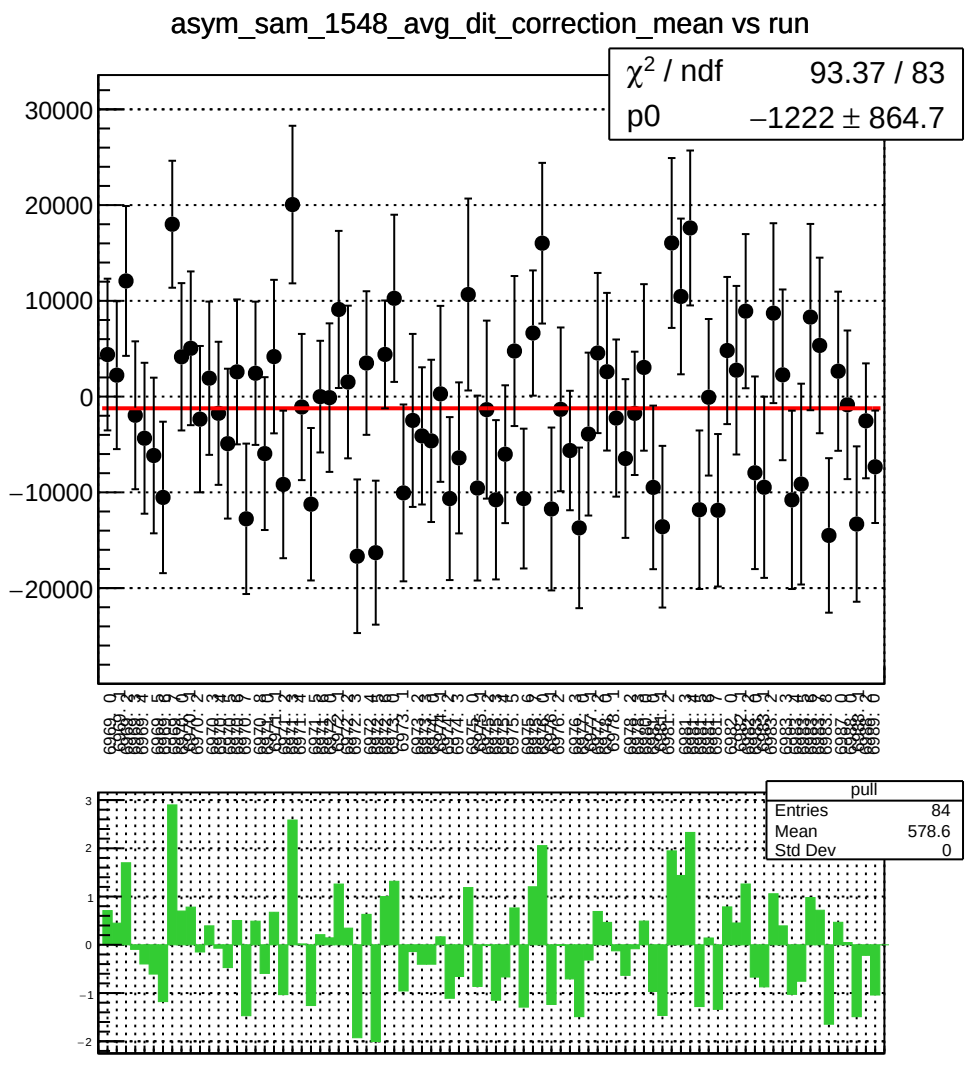

pull1D
Entries 84
Mean −0.003312
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

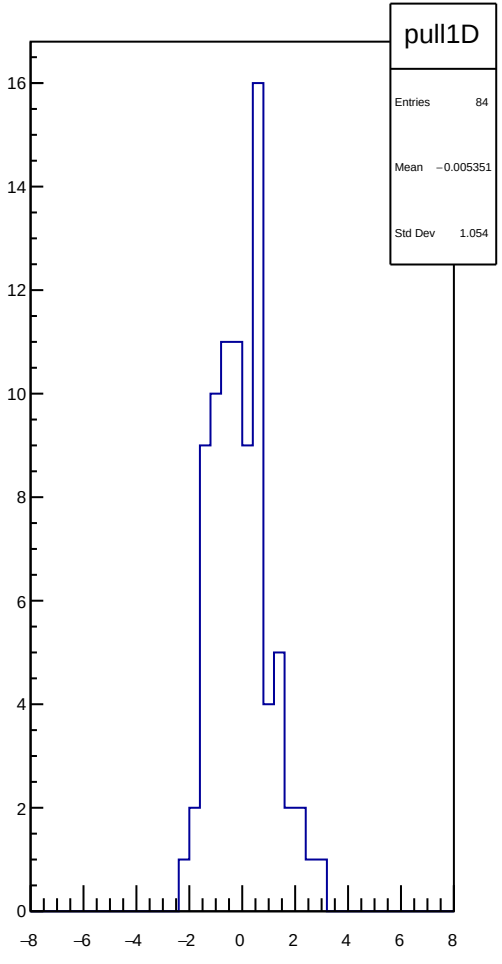

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.3e+04 / 83
p0 781.1 ± 0.6061
1050
1000
950
900
850
800
750
700
650

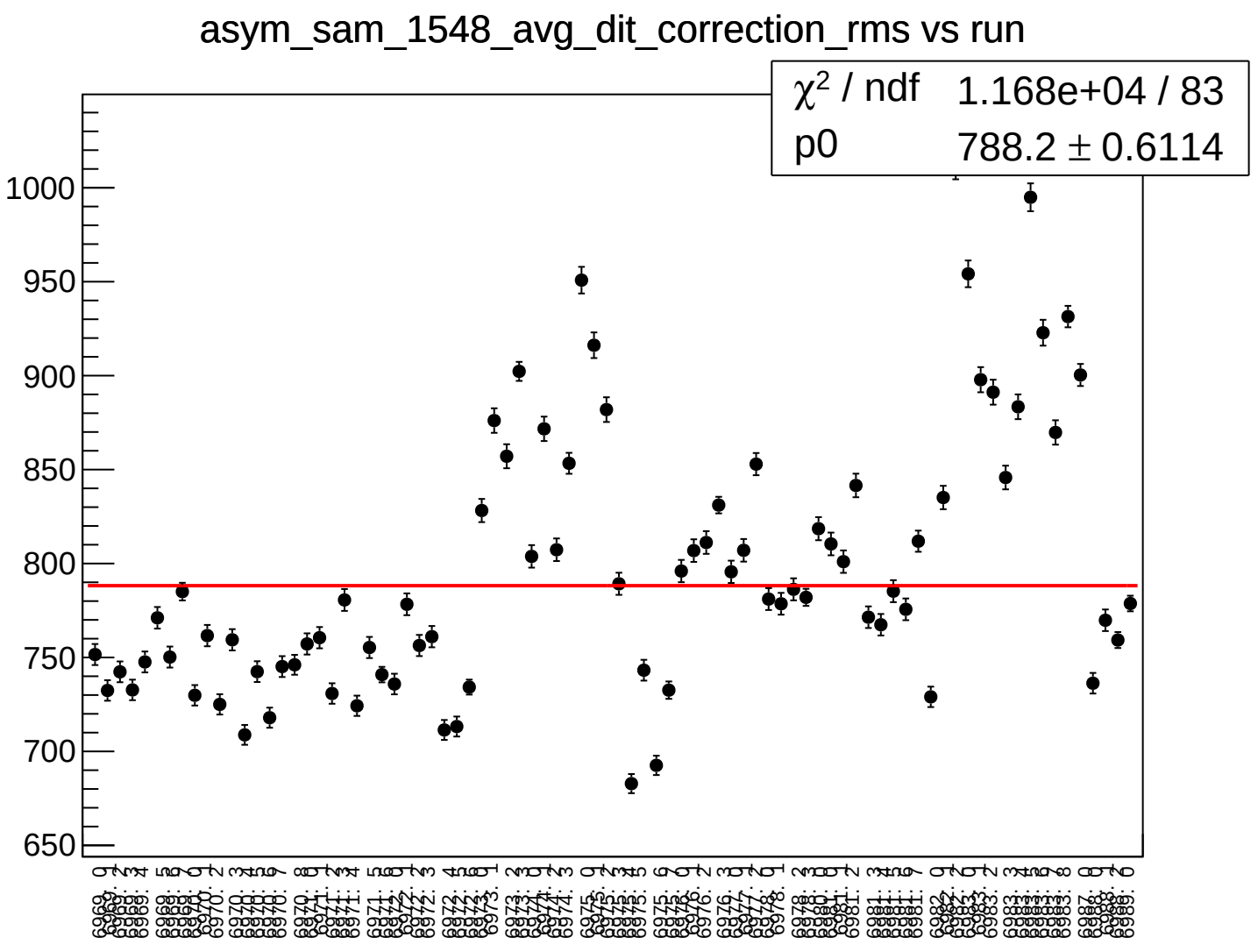

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 94.96 / 83
p0 −47.2 ± 119.6
pull
Entries 84
Mean −381.2
Std Dev 0

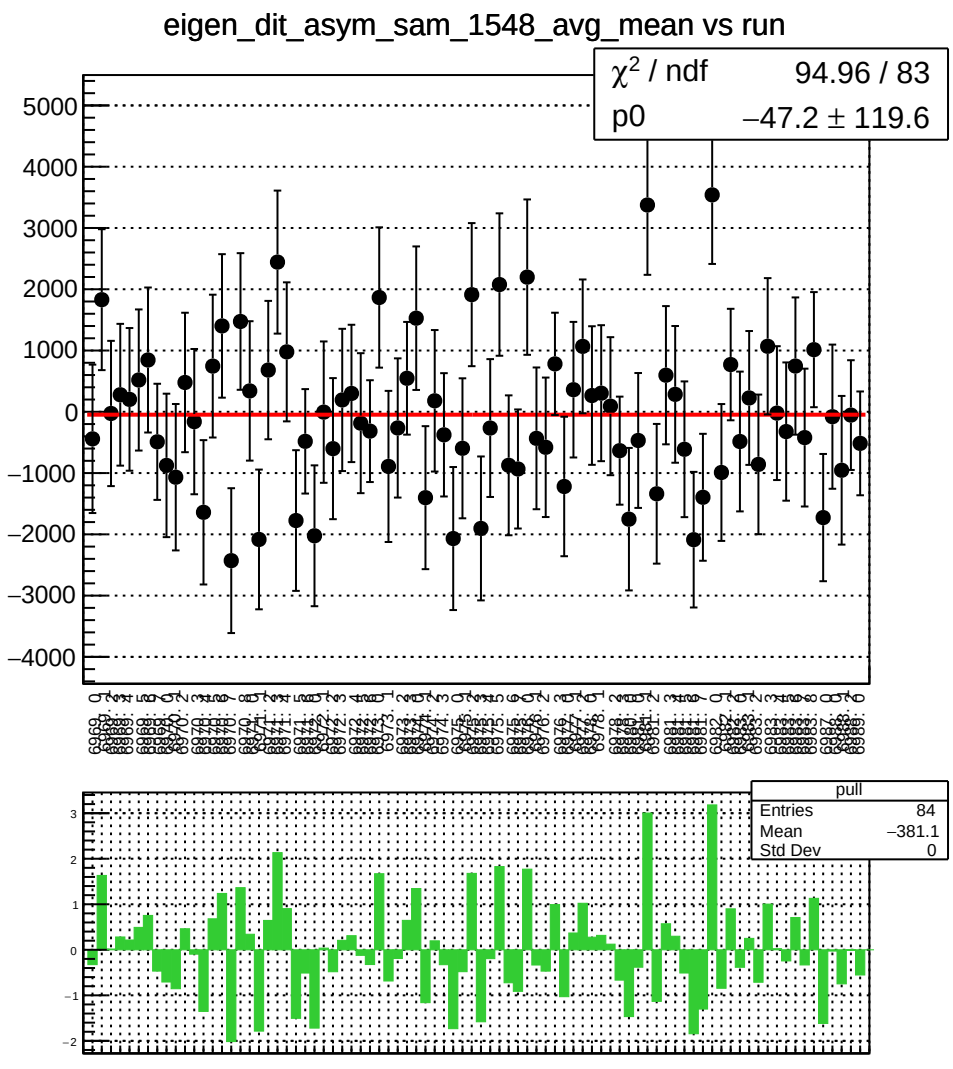

pull1D
Entries 84
Mean 0.001949
Std Dev 1.063

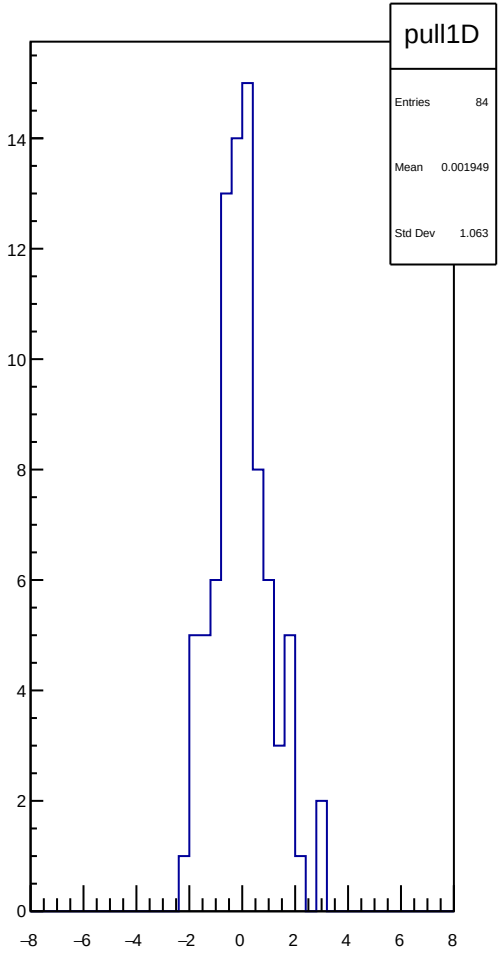

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1235 / 83
p0 109.3 ± 0.08455
122
120
118
116
114
112
110
108
106
104
102

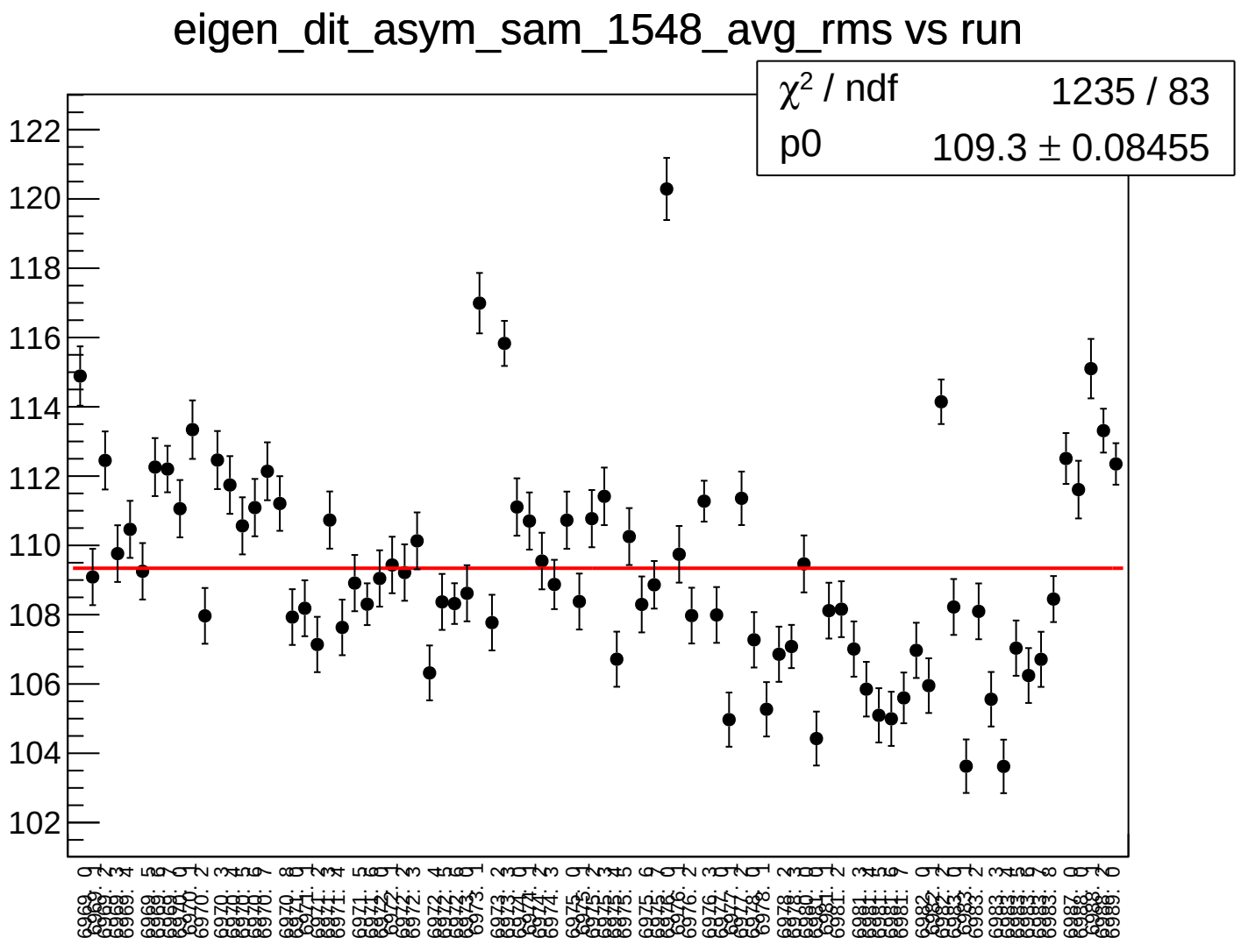

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 93.37 / 83
p0 −1222 ± 864.7
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 578.6
Std Dev 0
3
2
1
0
−1
−2

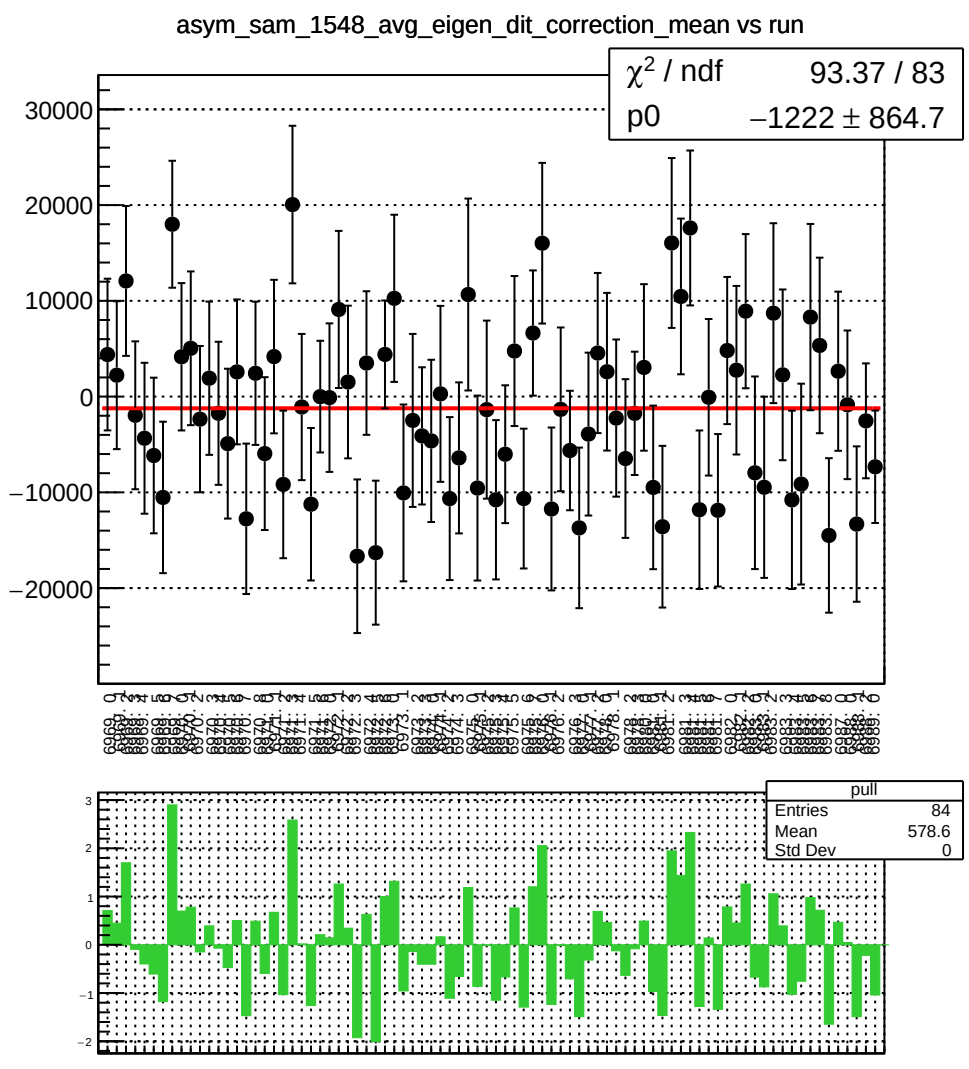

pull1D
Entries 84
Mean −0.005351
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

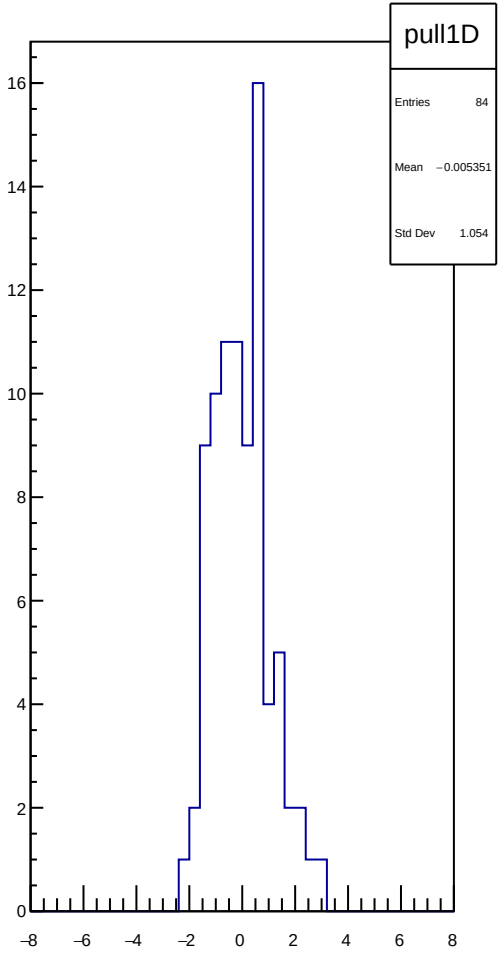

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1.168e+04 / 83
p0 788.2 ± 0.6114
1000
950
900
850
800
750
700
650

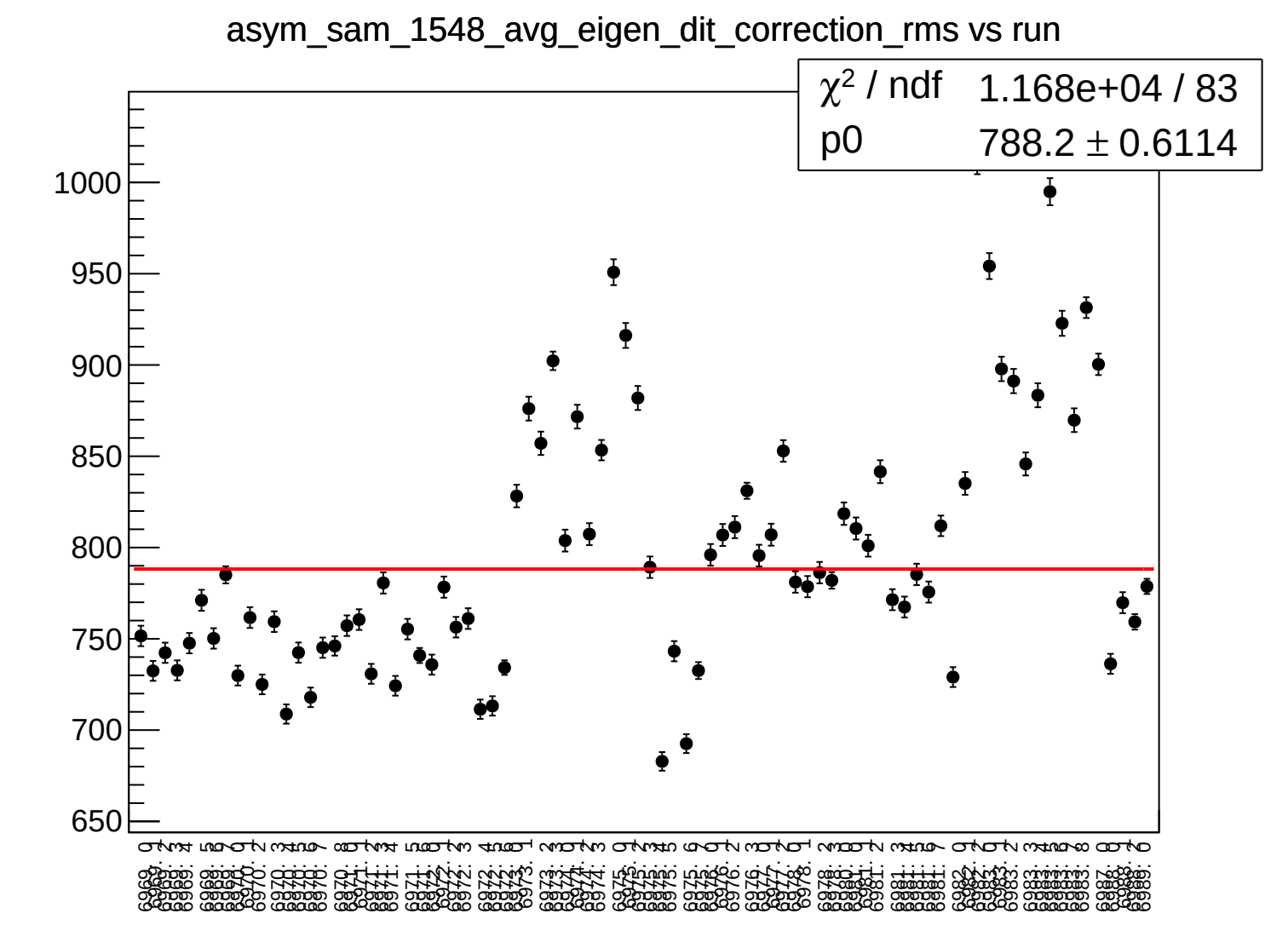

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 94.96 / 83
p0 −47.2 ± 119.6
pull
Entries 84
Mean −381.1
Std Dev 0

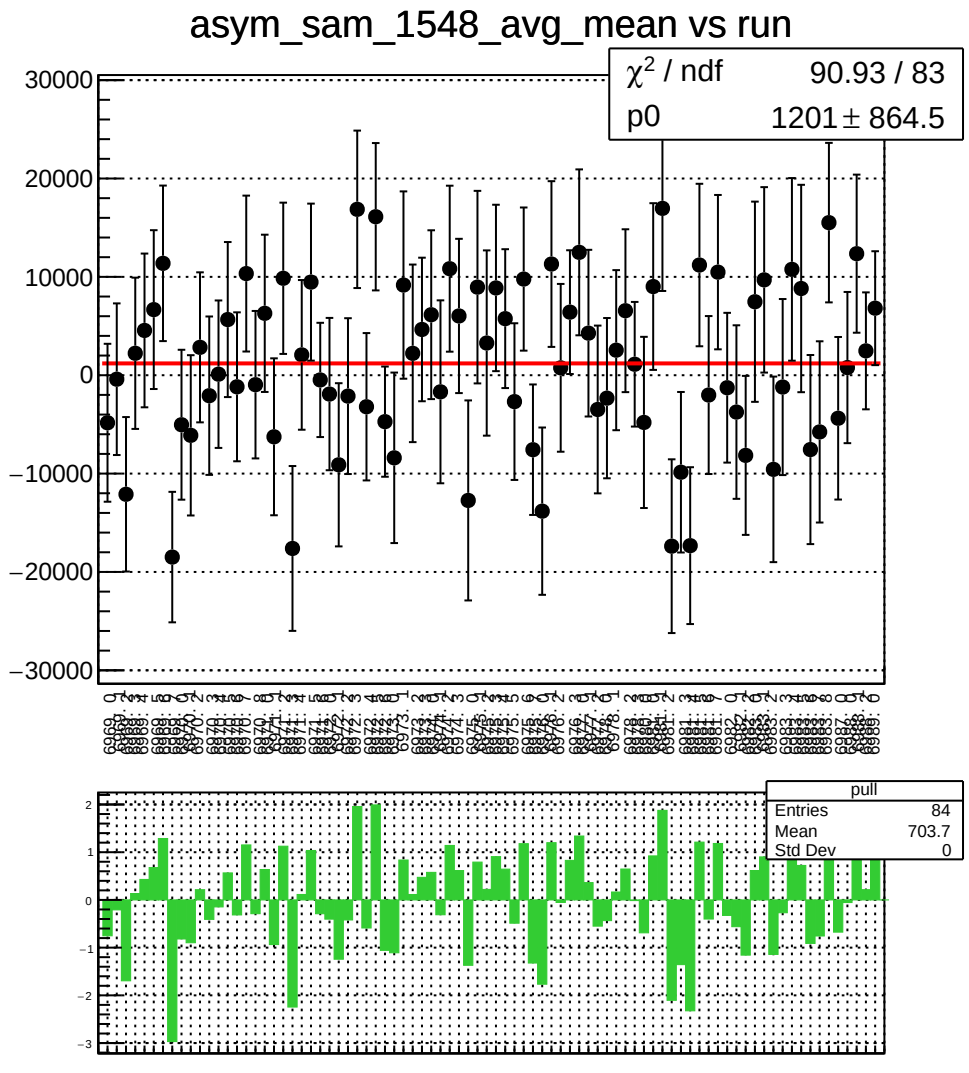

pull1D
Entries 84
Mean 0.001949
Std Dev 1.063

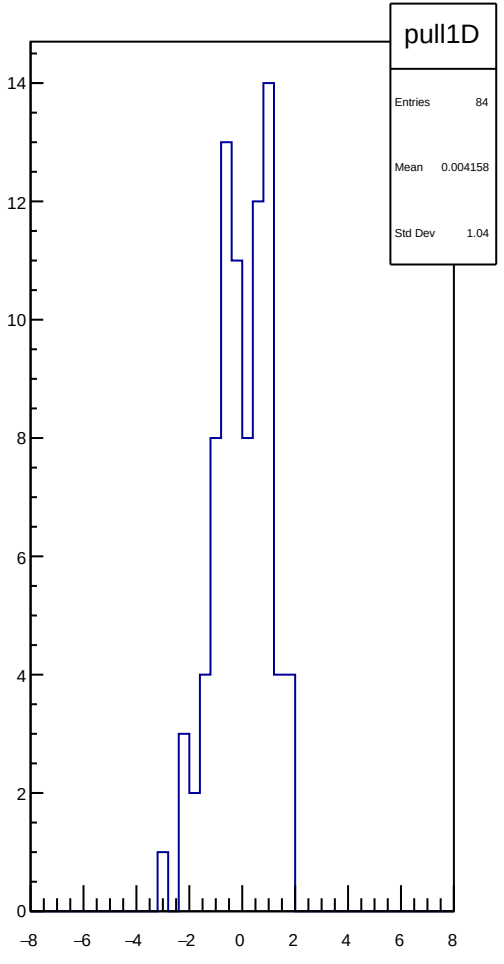

eigen_dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1235 / 83
p0 109.3 ± 0.08455
122
120
118
116
114
112
110
108
106
104
102

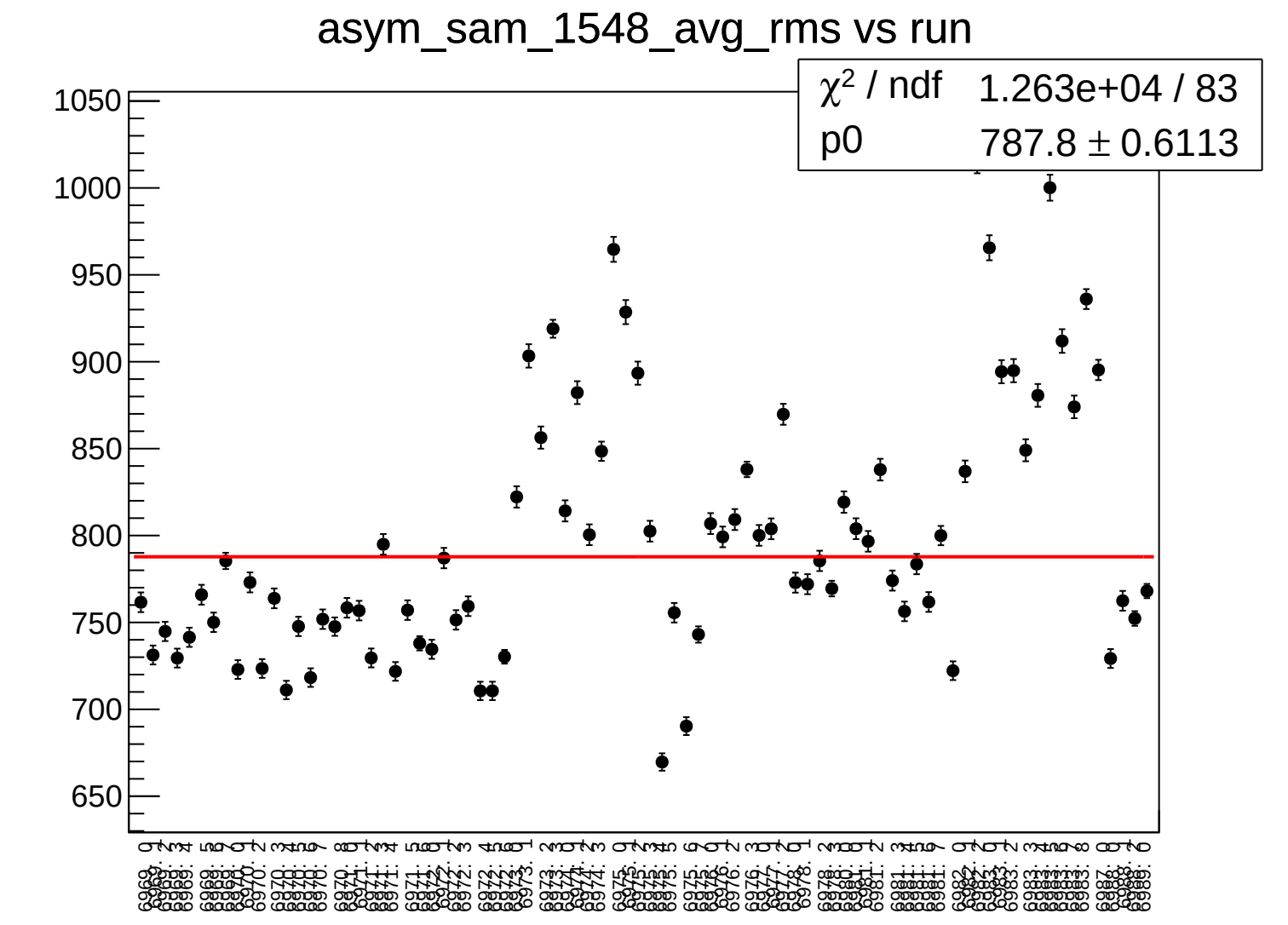

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.37 / 83
p0 −1222 ± 864.7
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 578.6
Std Dev 0
3
2
1
0
−1
−2

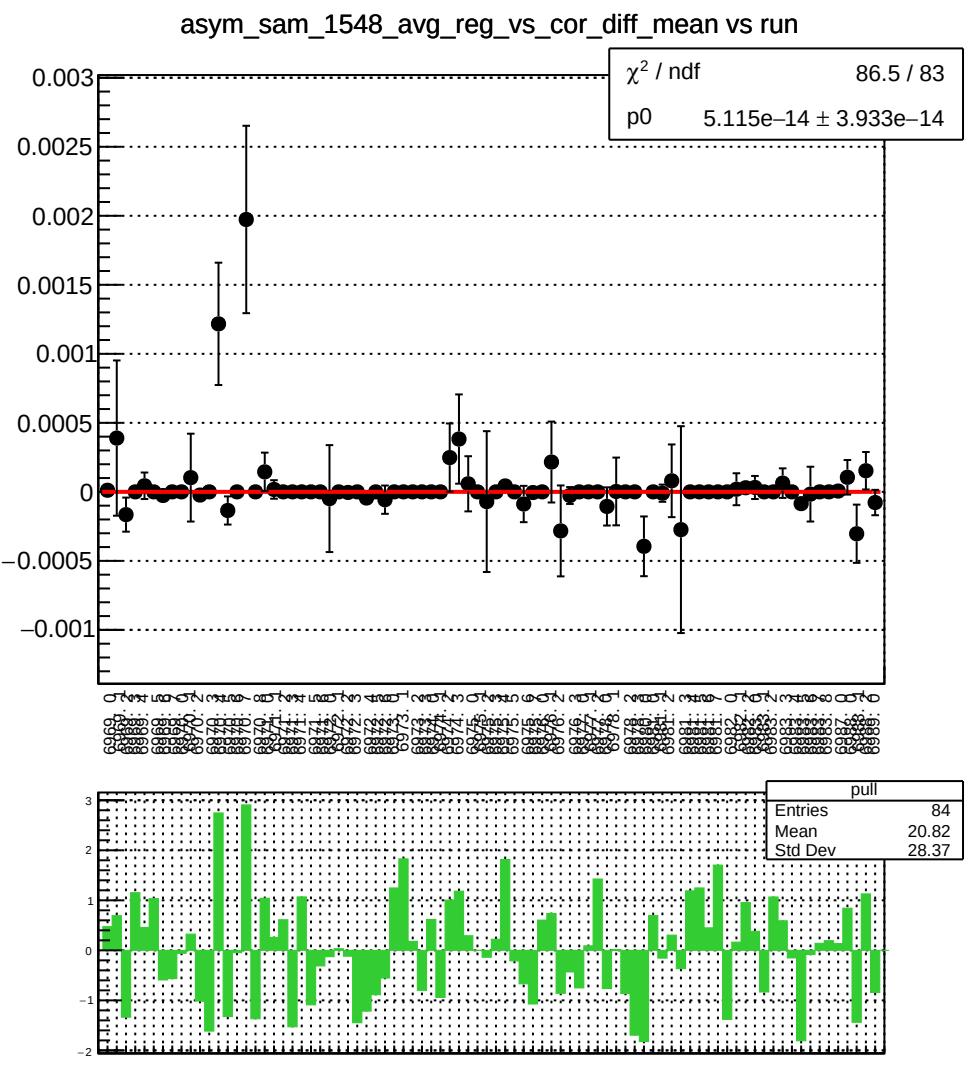

pull1D
Entries 84
Mean −0.005351
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

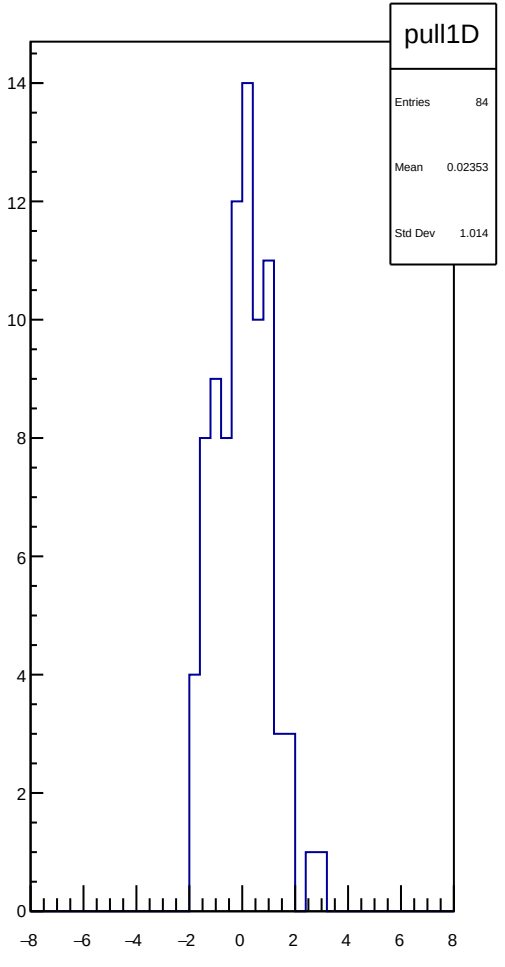

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.168e+04 / 83
p0 788.2 ± 0.6114
1000
950
900
850
800
750
700
650

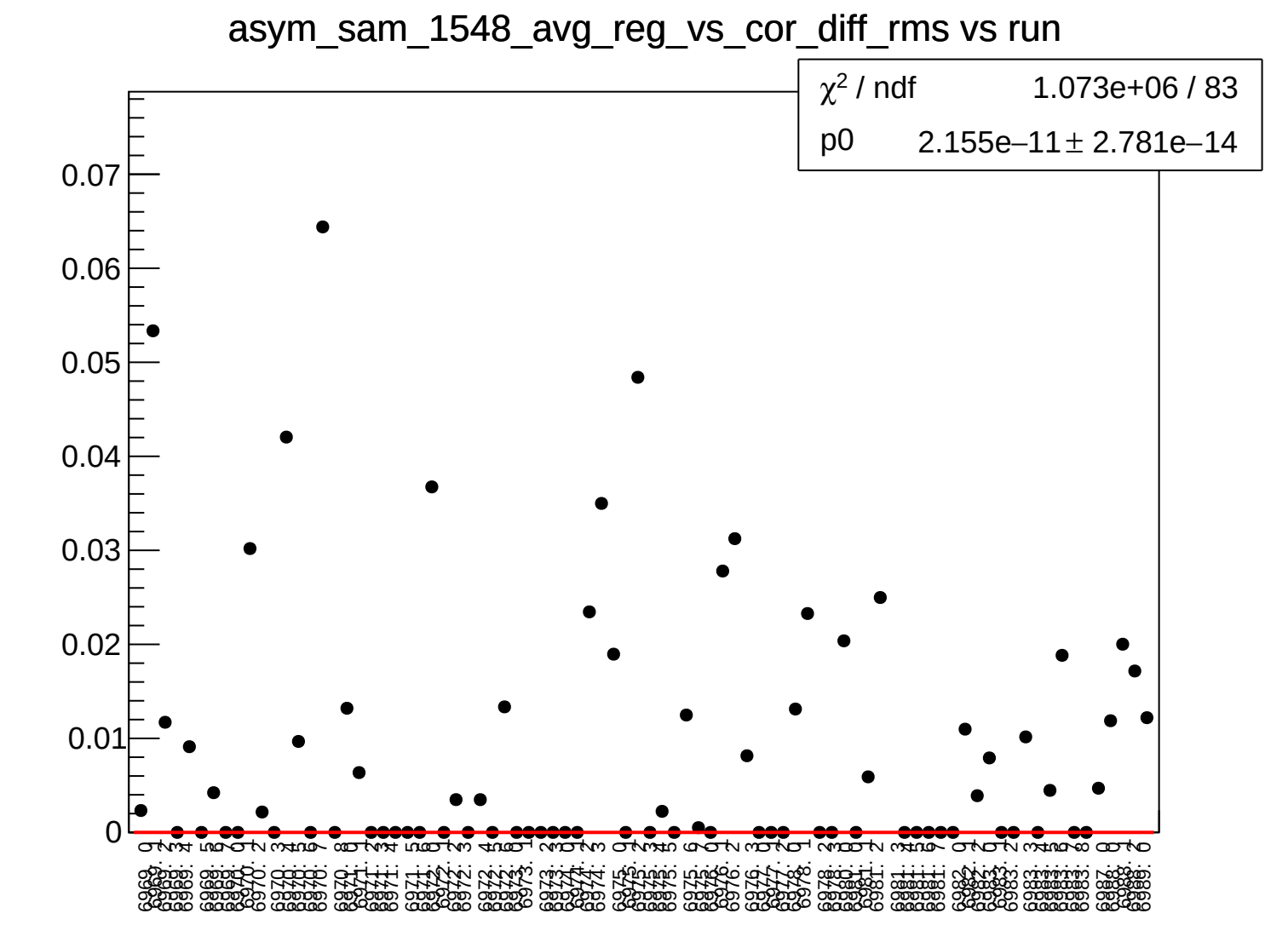

asym_sam_1548_avg_mean vs run
χ² / ndf 90.93 / 83
p0 1201 ± 864.5
pull
Entries 84
Mean 703.7
Std Dev 0

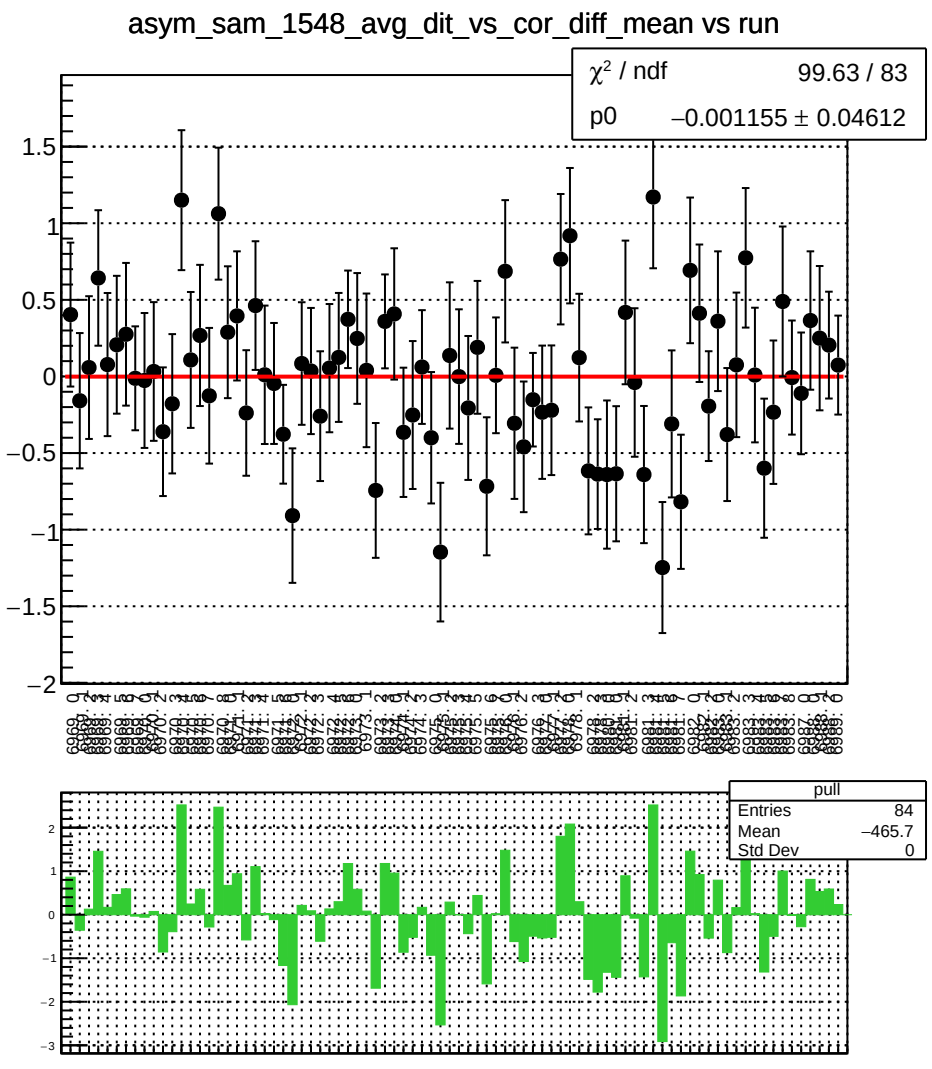

pull1D
Entries 84
Mean 0.004158
Std Dev 1.04

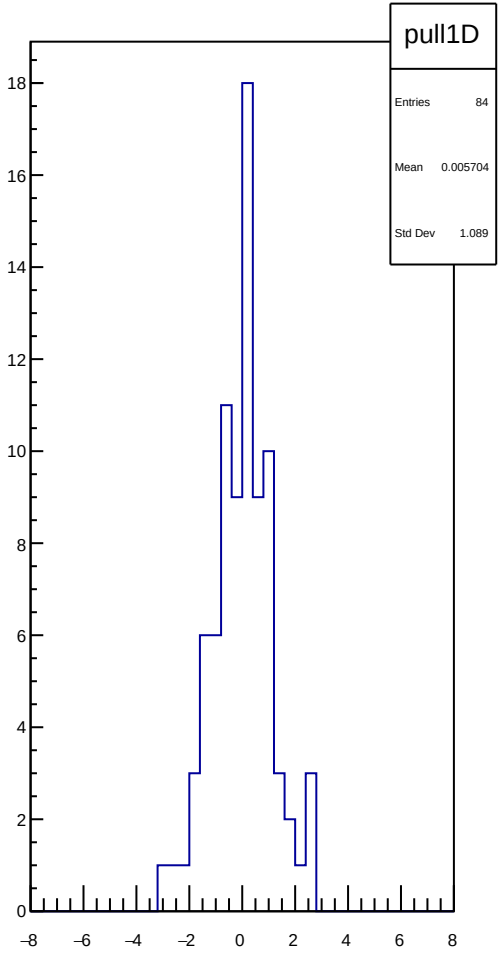

asym_sam_1548_avg_rms vs run
χ² / ndf 1.263e+04 / 83
p0 787.8 ± 0.6113
1050
1000
950
900
850
800
750
700
650

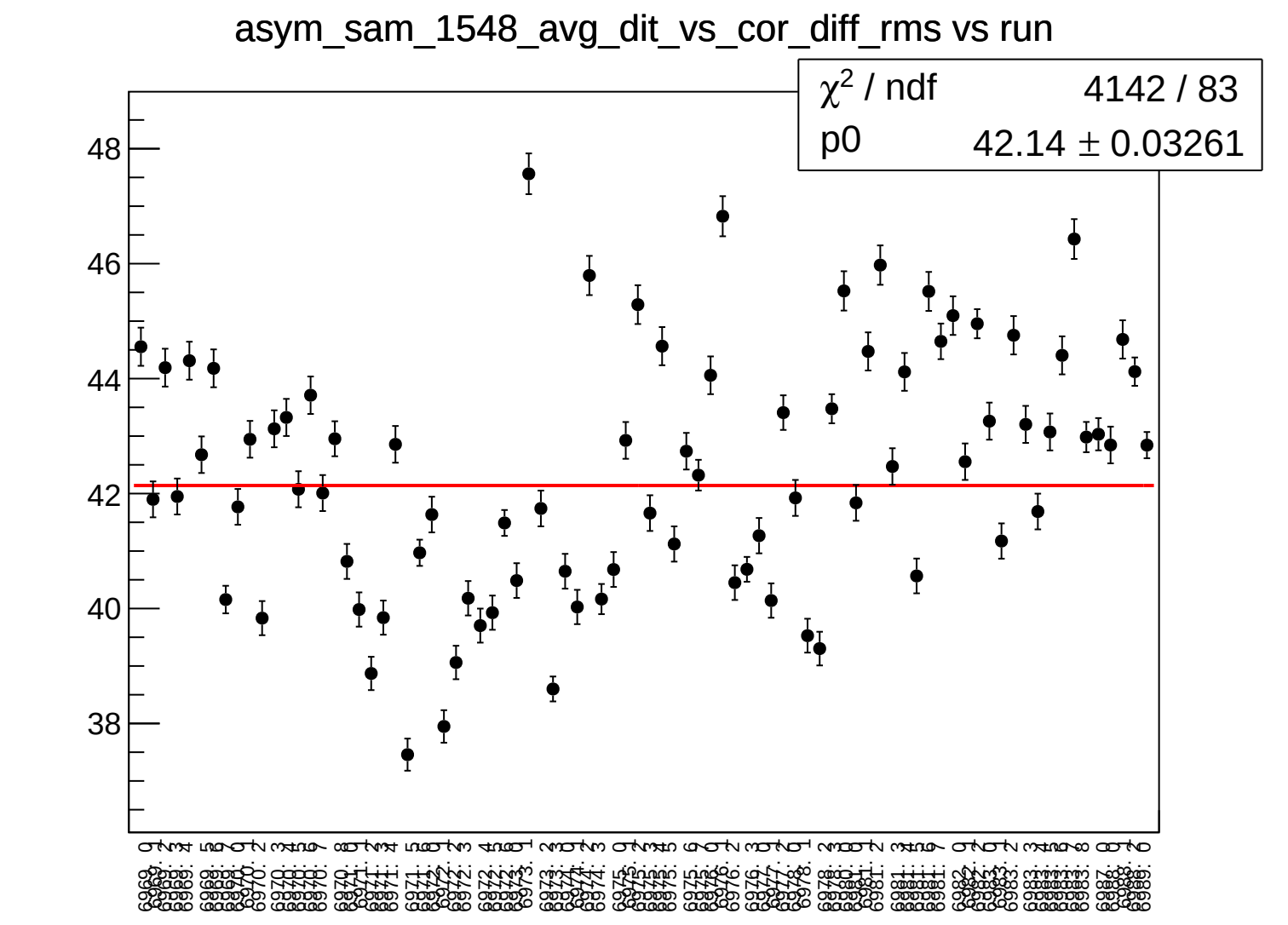

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.5 / 83
p0 5.115e−14 ± 3.933e−14
pull
Entries 84
Mean 20.82
Std Dev 28.37

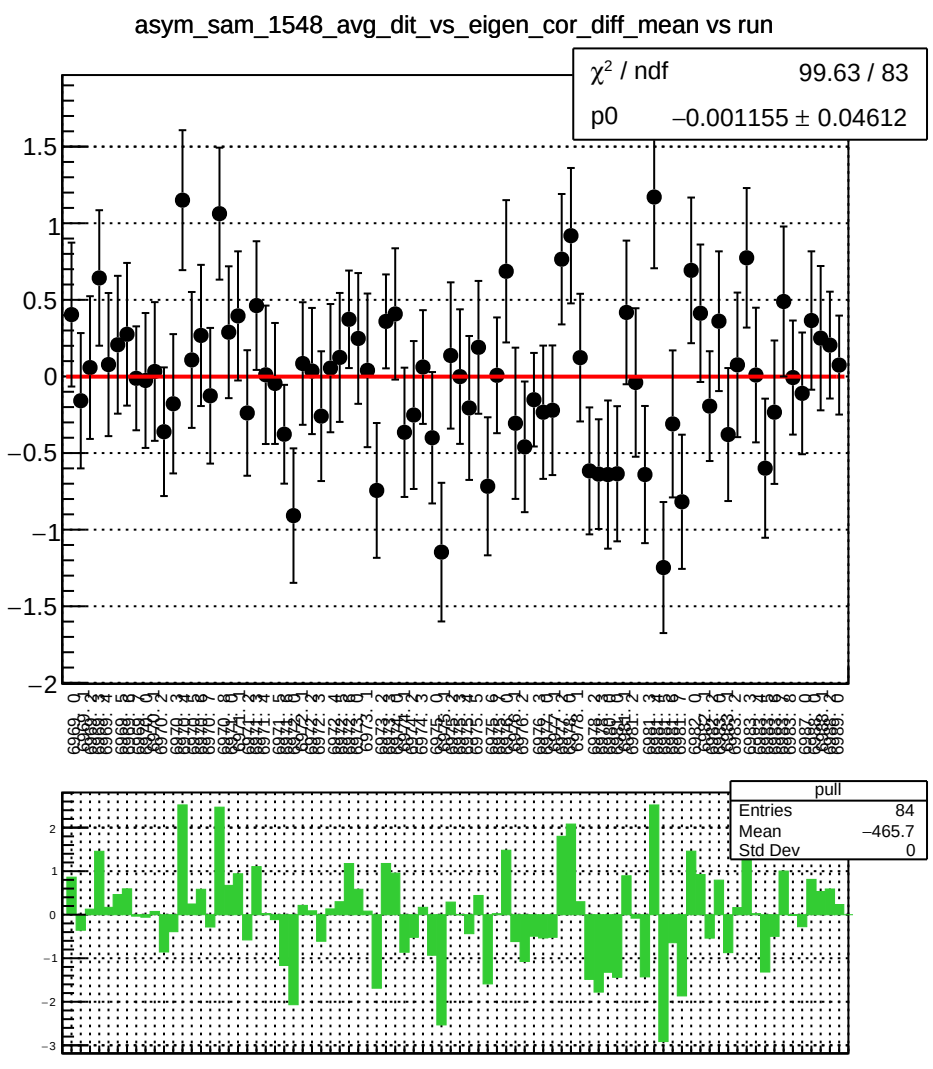

pull1D
Entries 84
Mean 0.02353
Std Dev 1.014

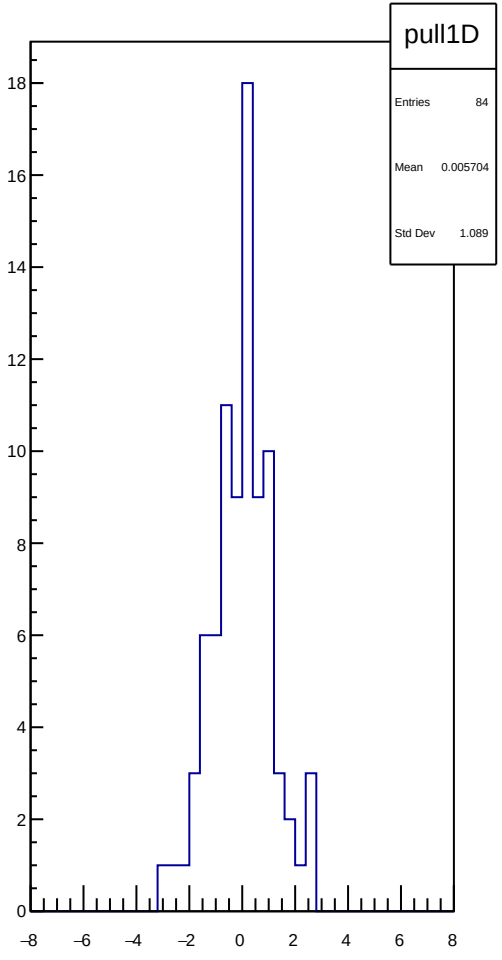

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.073e+06 / 83
p0 2.155e−11 ± 2.781e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

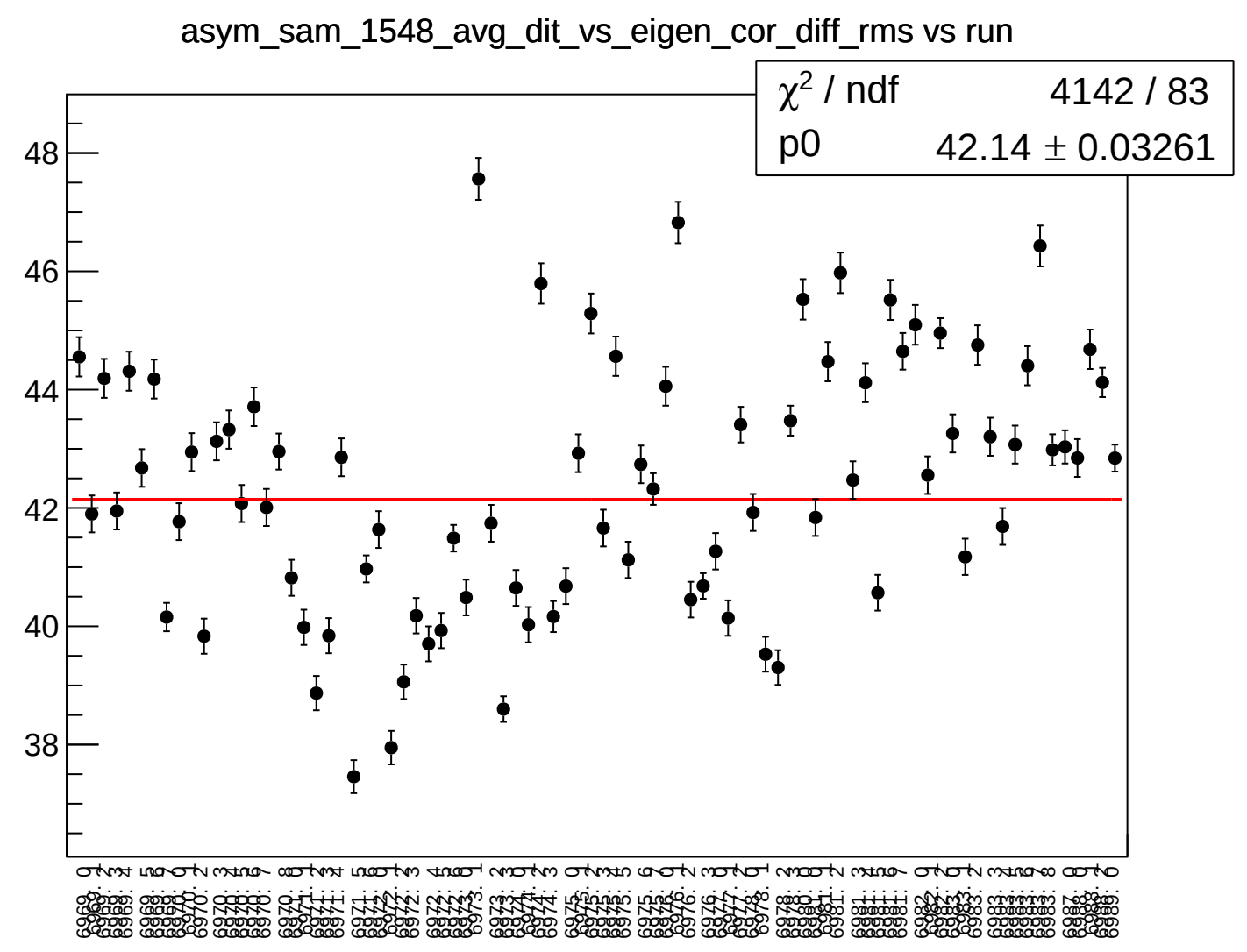

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.63 / 83
p0 −0.001155 ± 0.04612
pull
Entries 84
Mean −465.7
Std Dev 0

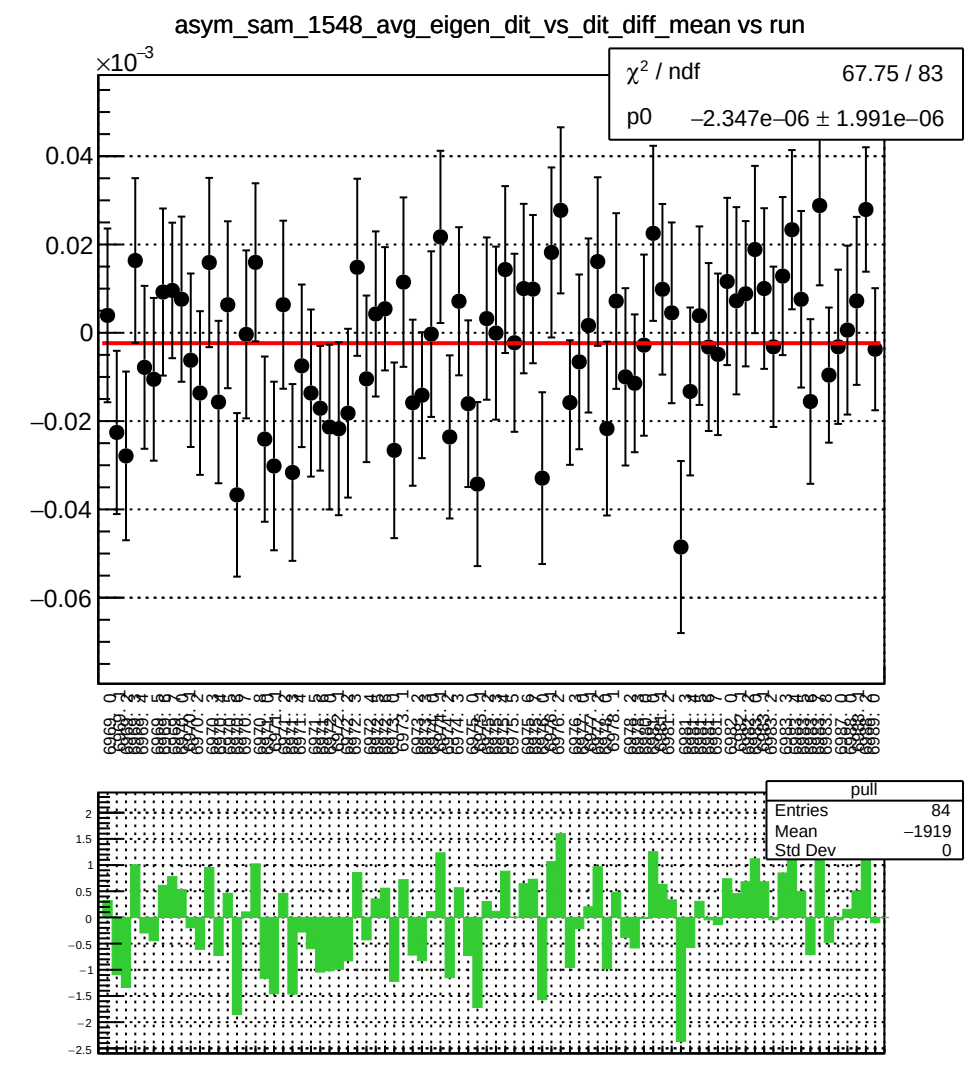

pull1D
Entries 84
Mean 0.005704
Std Dev 1.089

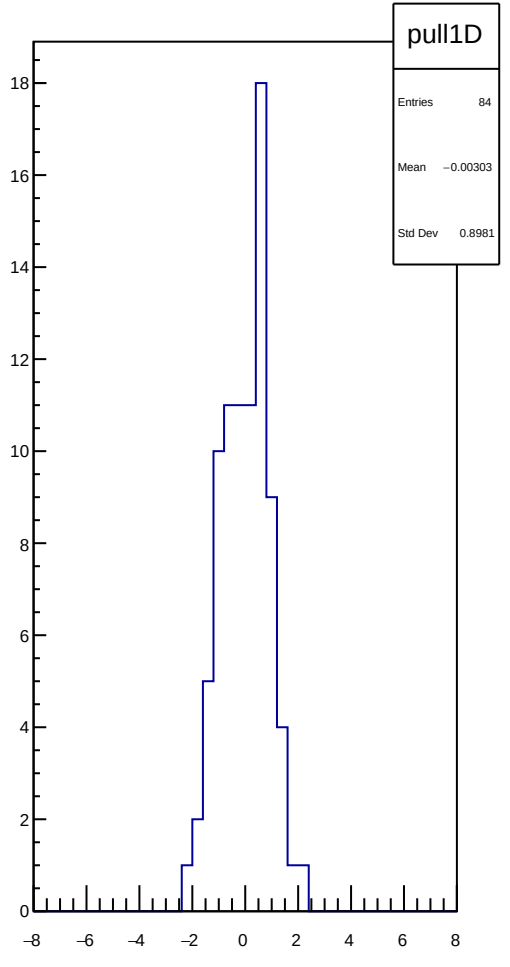

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4142 / 83
p0 42.14 ± 0.03261
48
46
44
42
40
38

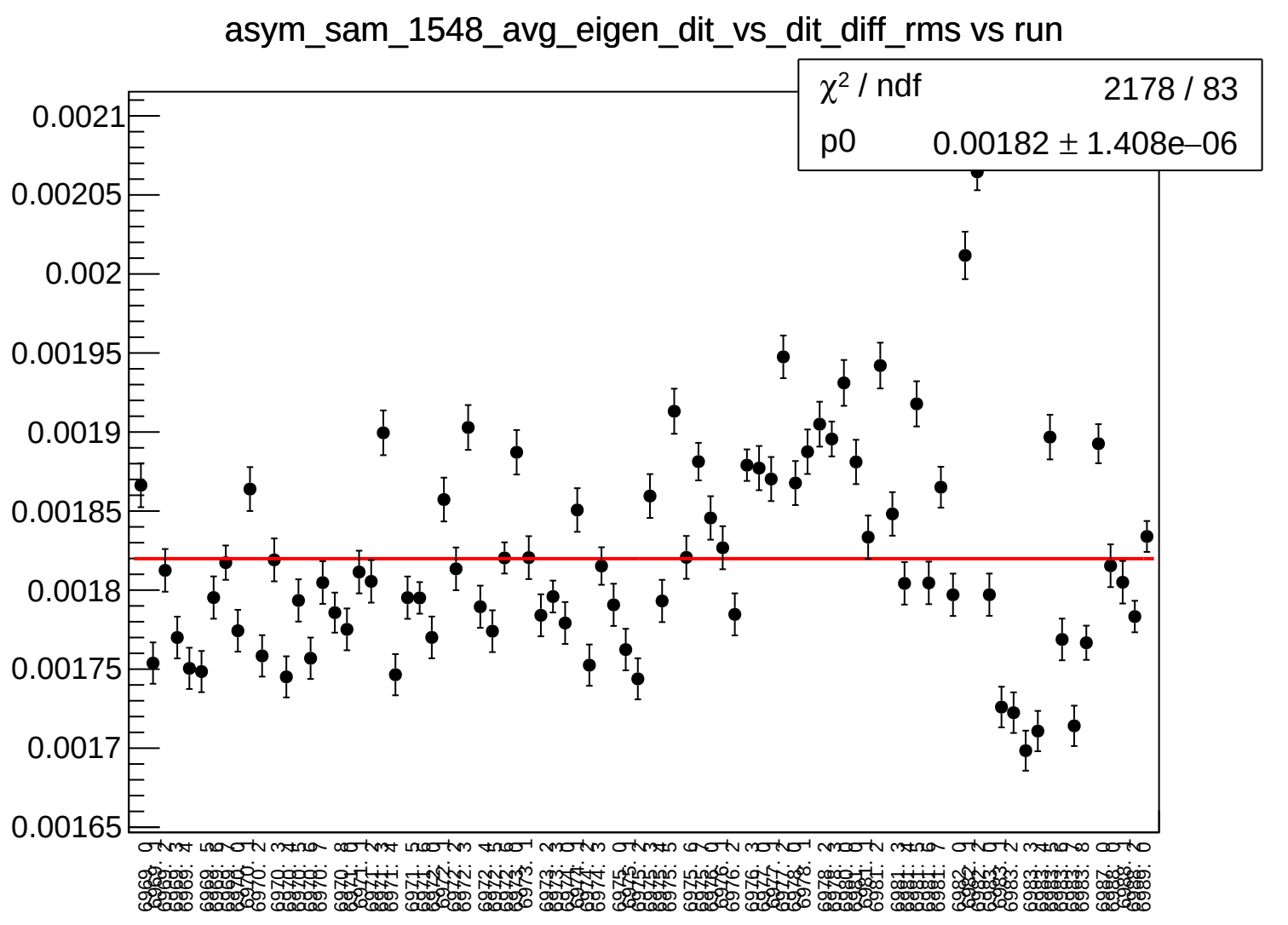

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.63 / 83
p0 −0.001155 ± 0.04612
pull
Entries 84
Mean −465.7
Std Dev 0

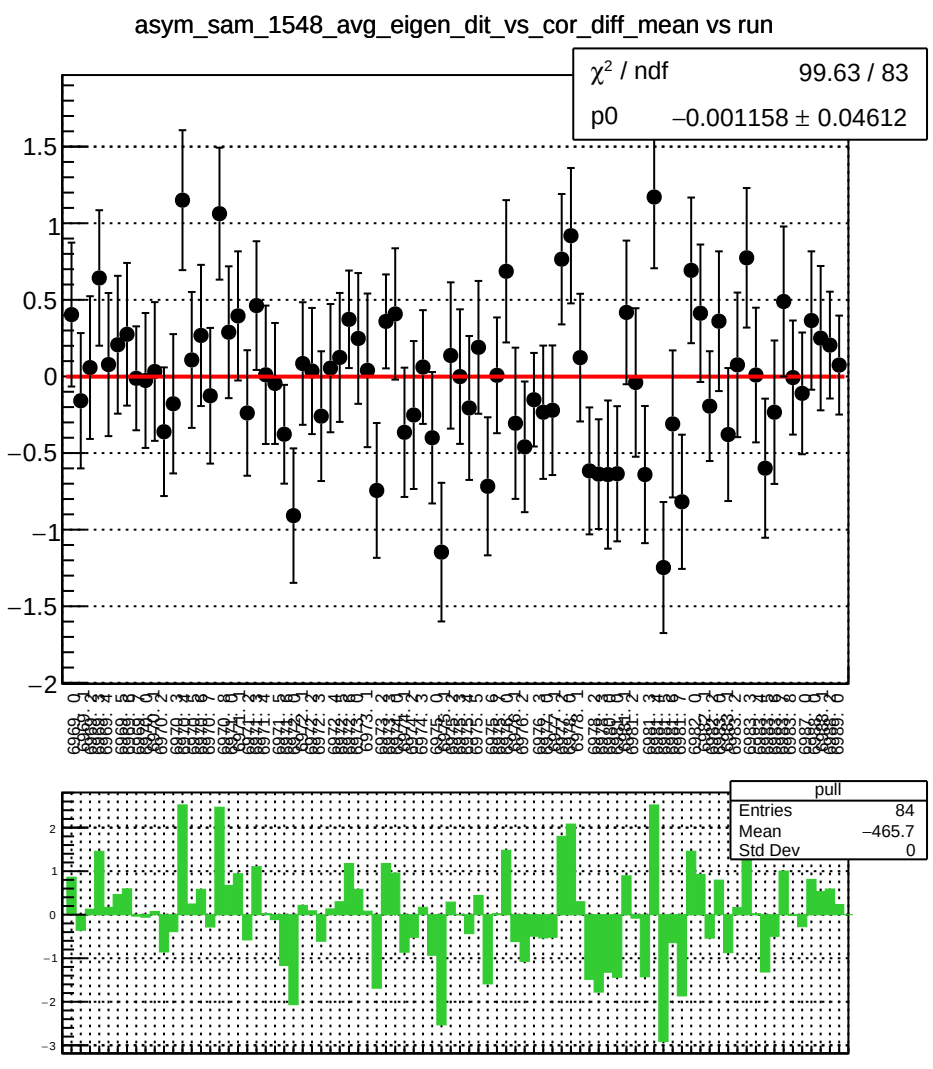

pull1D
Entries 84
Mean 0.005704
Std Dev 1.089

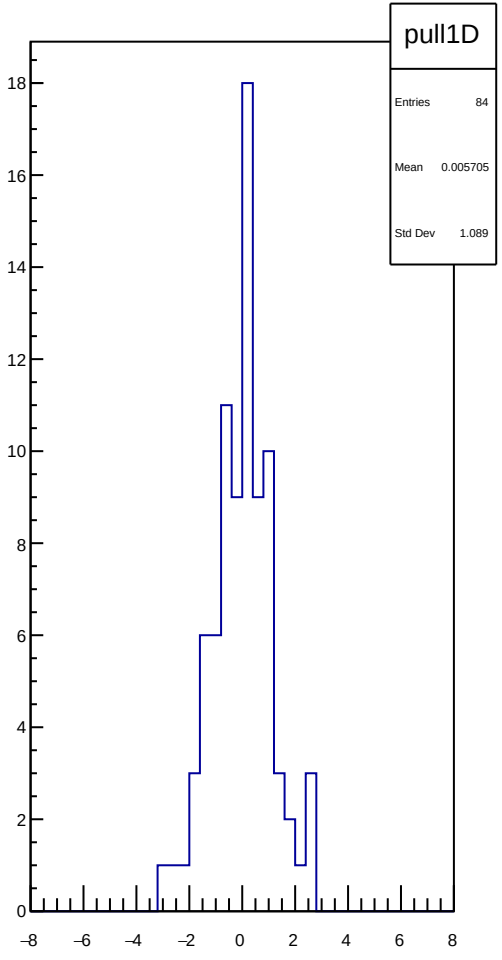

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4142 / 83
p0 42.14 ± 0.03261
48
46
44
42
40
38

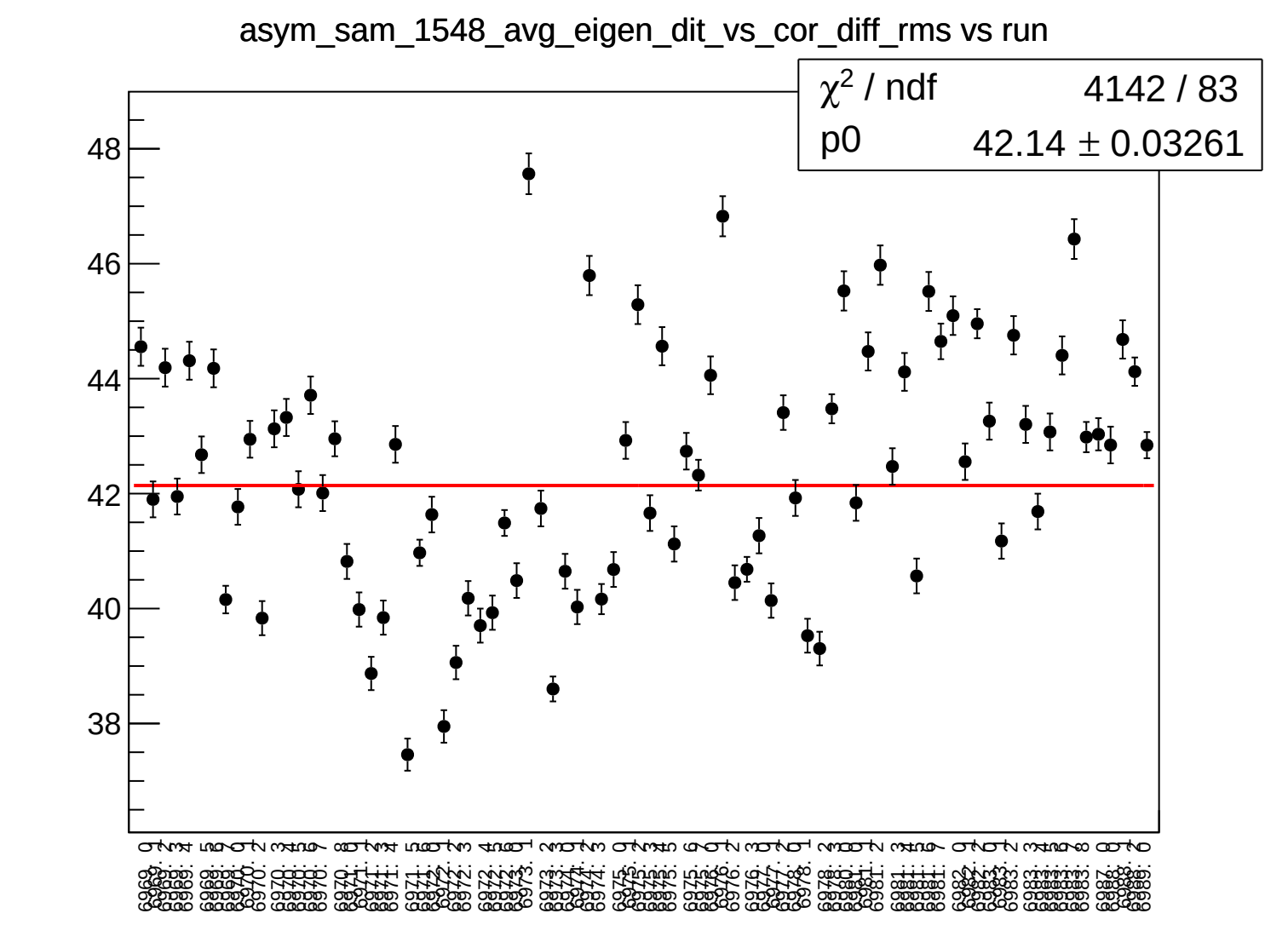

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.75 / 83
p0 −2.347e−06 ± 1.991e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean −1919
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

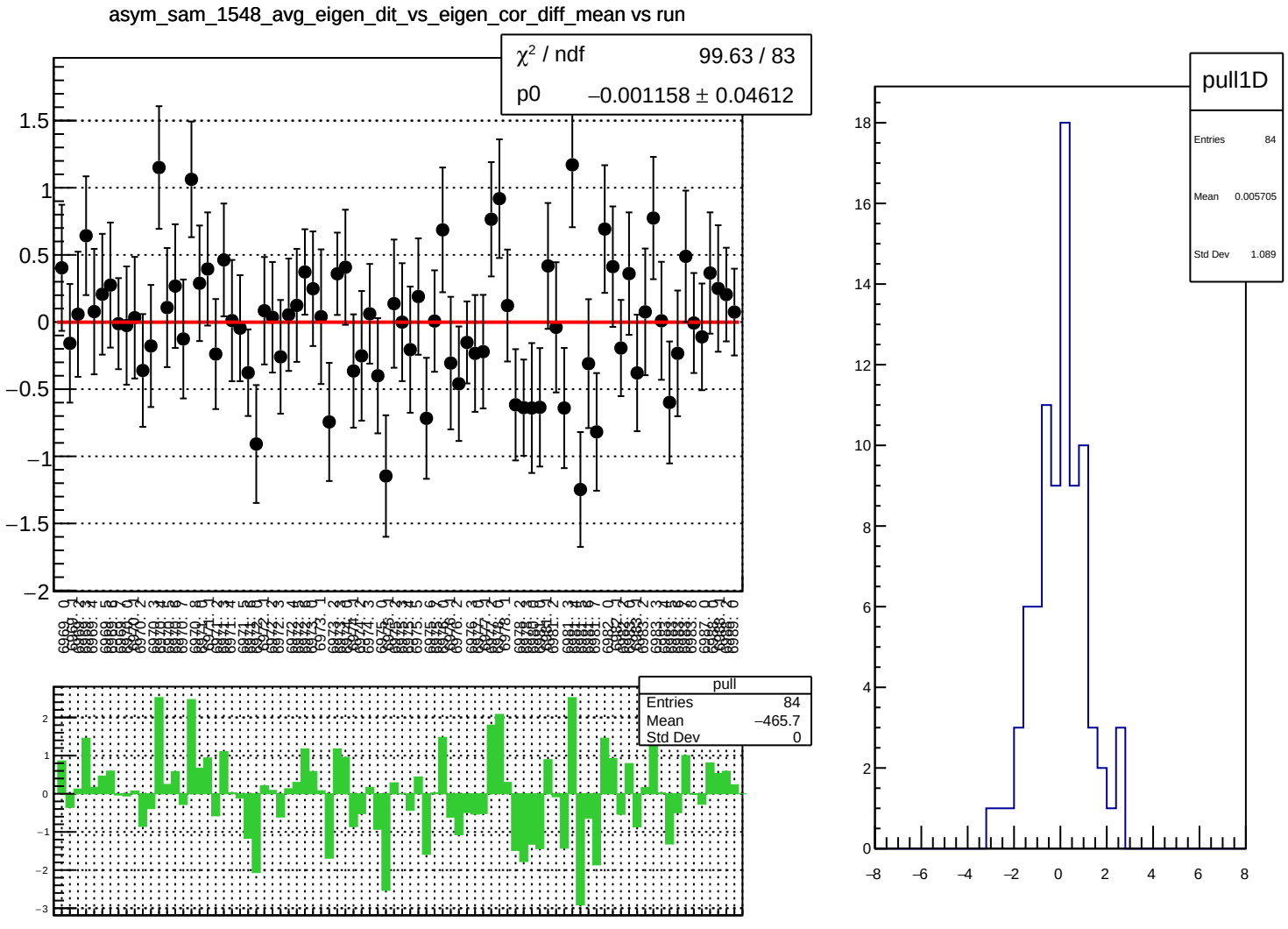

pull1D
Entries 84
Mean −0.00303
Std Dev 0.8981
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

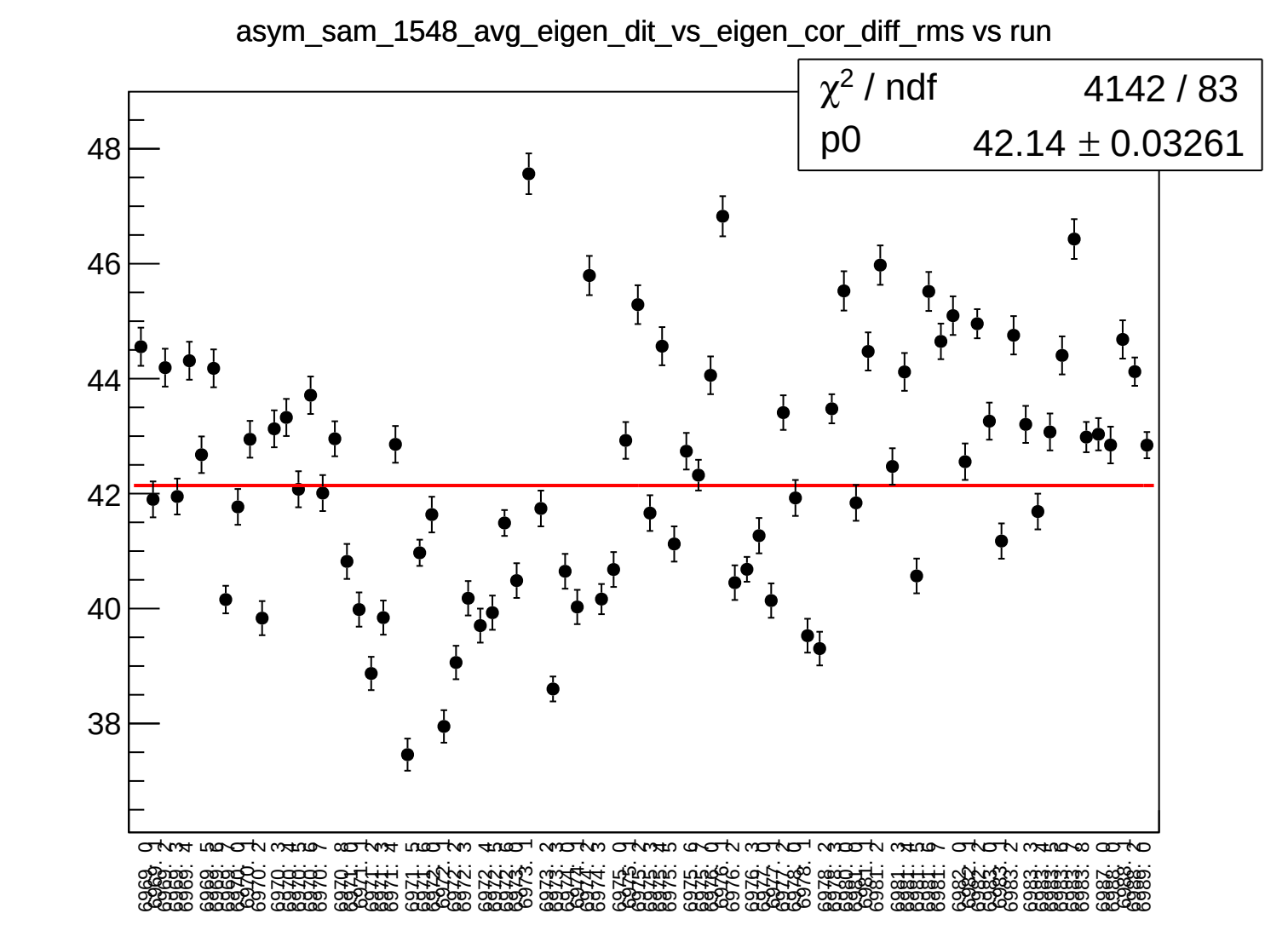

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2178 / 83
p0 0.00182 ± 1.408e−06
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165

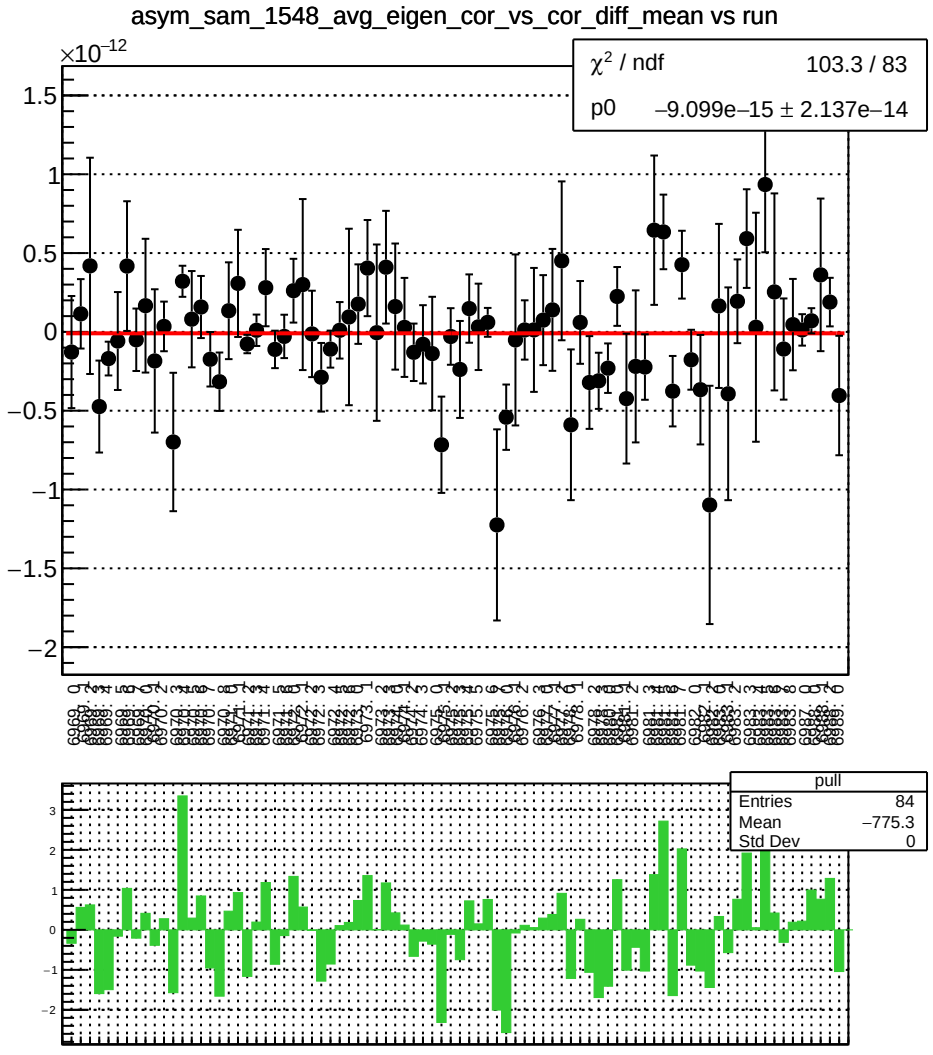

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.63 / 83
p0 −0.001158 ± 0.04612
pull
Entries 84
Mean −465.7
Std Dev 0

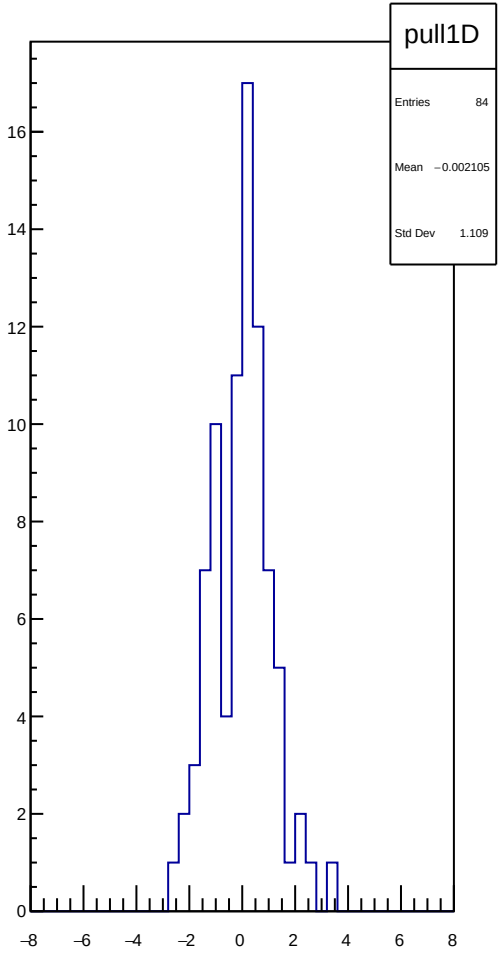

pull1D
Entries 84
Mean 0.005705
Std Dev 1.089

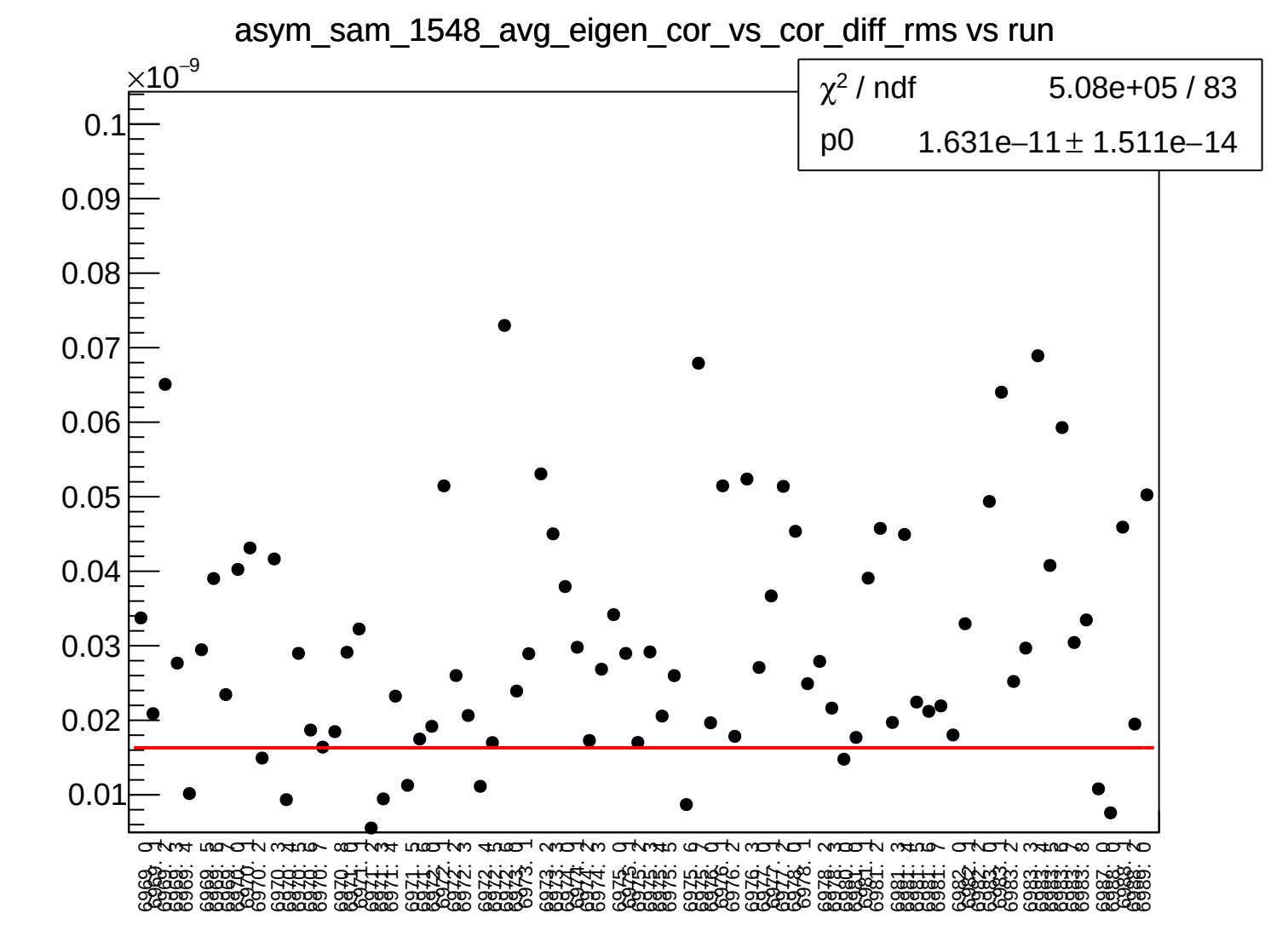

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4142 / 83
p0 42.14 ± 0.03261
48
46
44
42
40
38

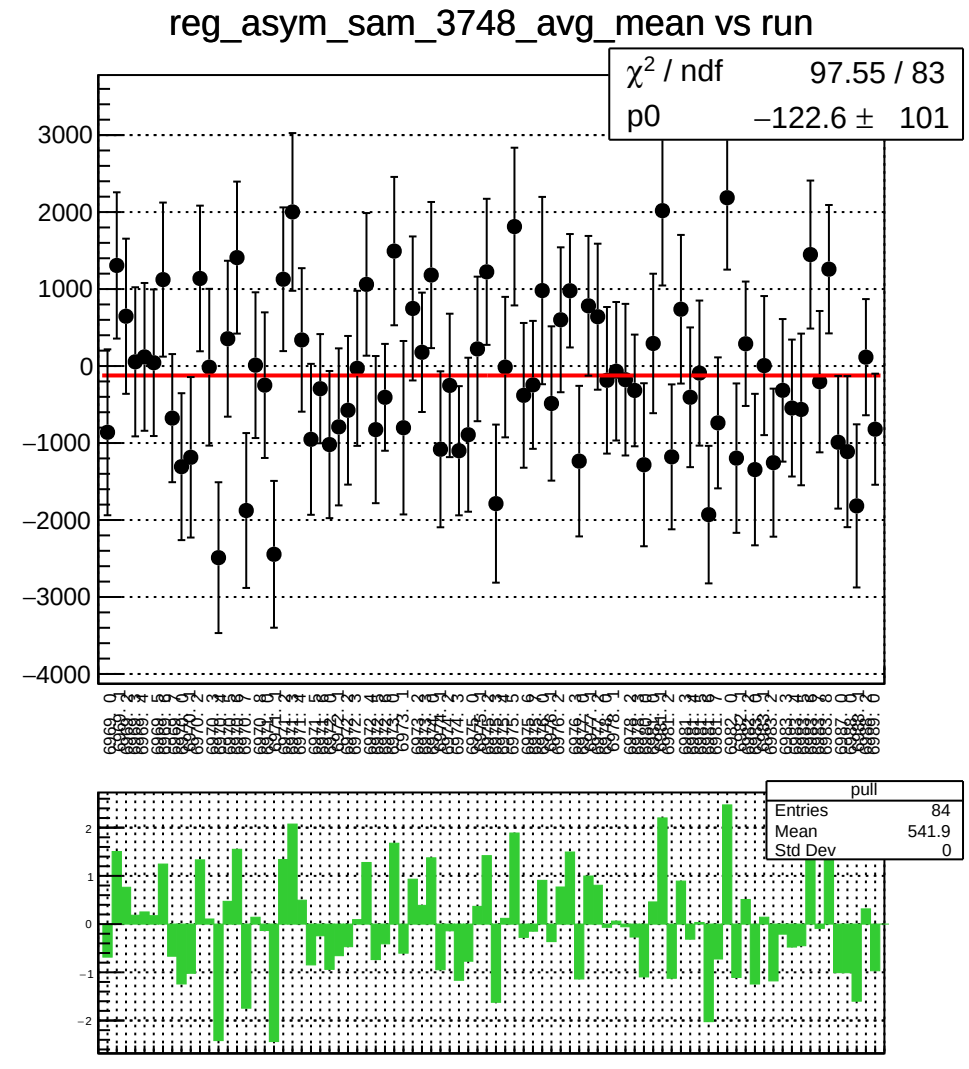

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.63 / 83
p0 −0.001158 ± 0.04612
pull
Entries 84
Mean −465.7
Std Dev 0
pull1D
Entries 84
Mean 0.005705
Std Dev 1.089

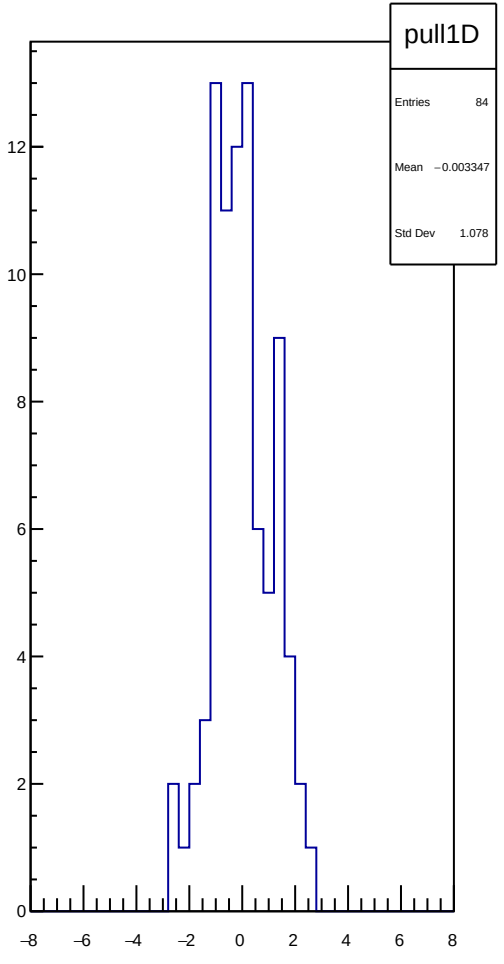

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4142 / 83
p0 42.14 ± 0.03261
48
46
44
42
40
38

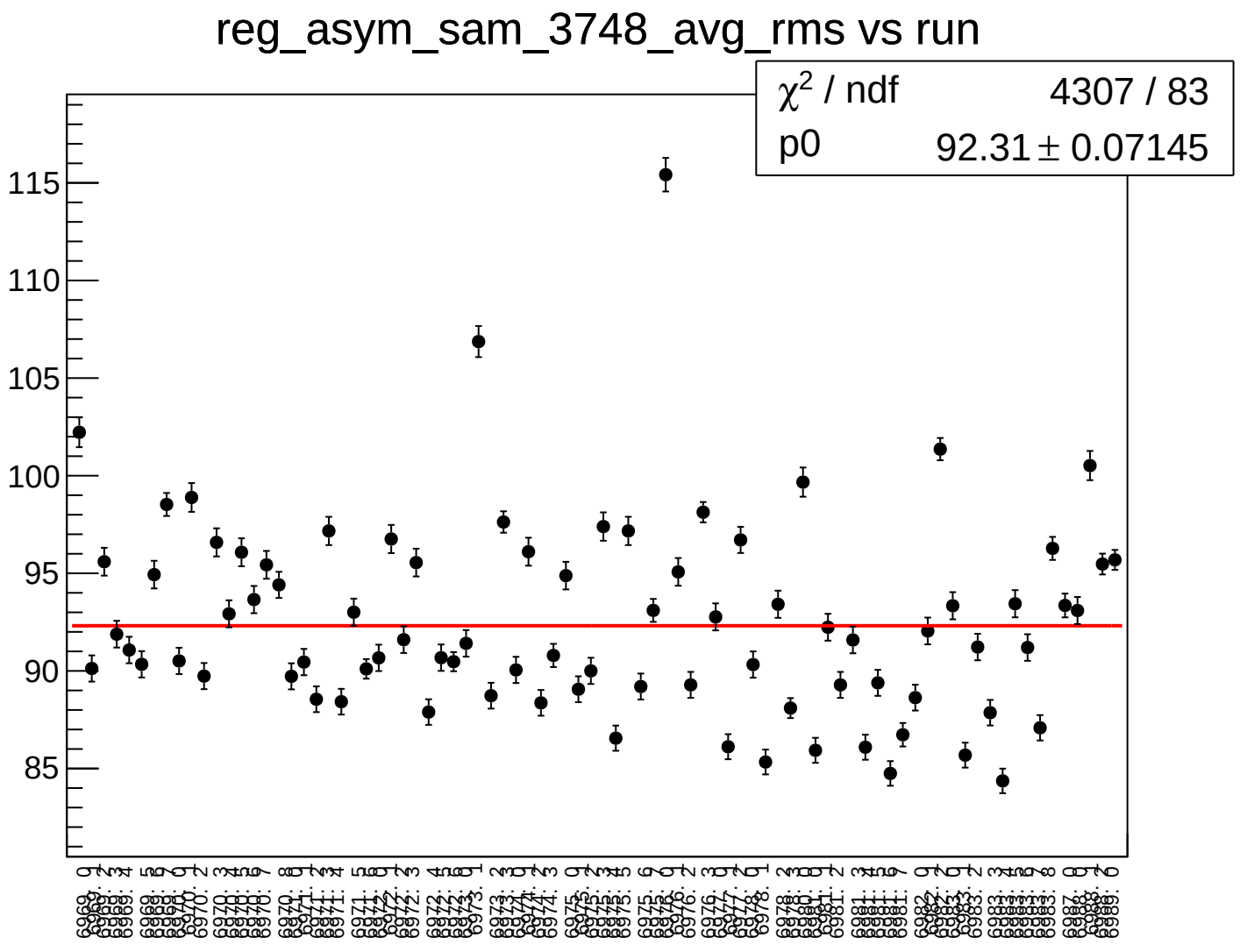

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.3 / 83
p0 −9.099e−15 ± 2.137e−14
pull
Entries 84
Mean −775.3
Std Dev 0

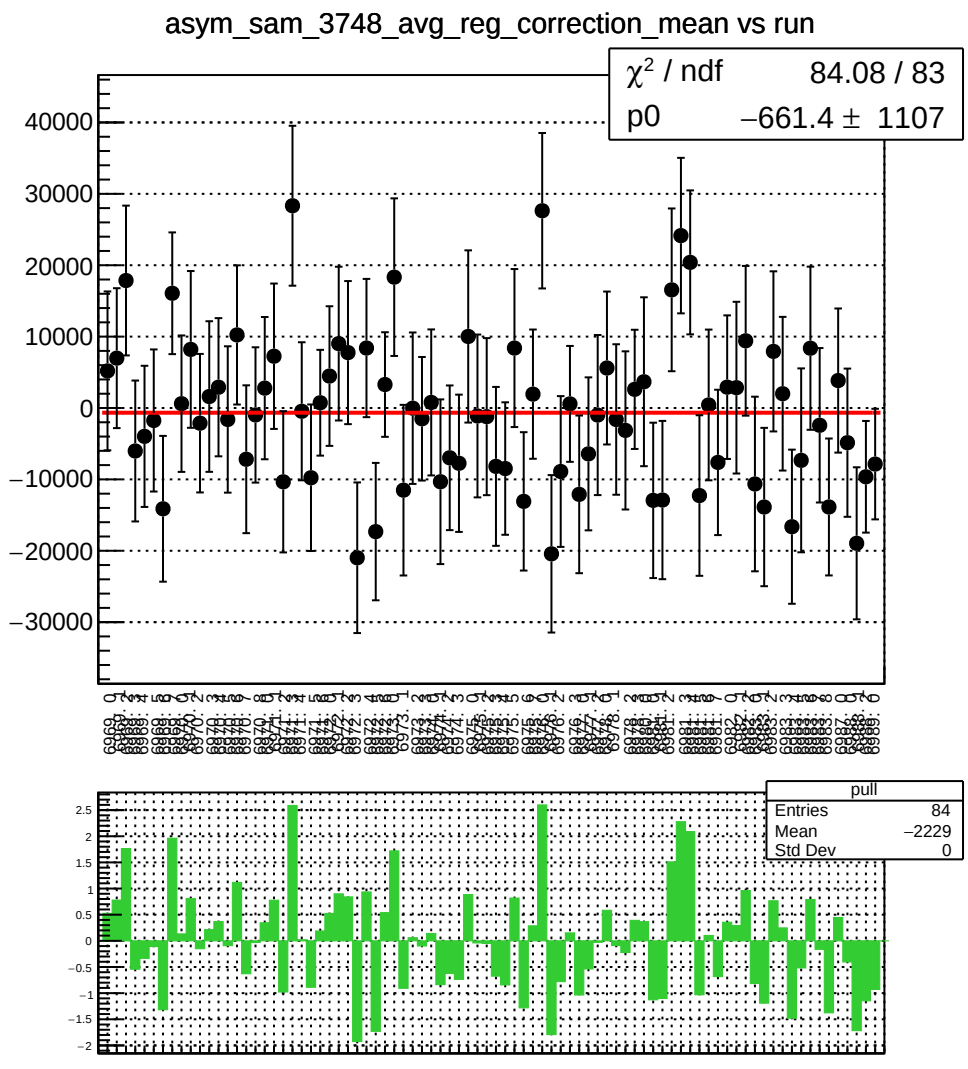

pull1D
Entries 84
Mean −0.002105
Std Dev 1.109

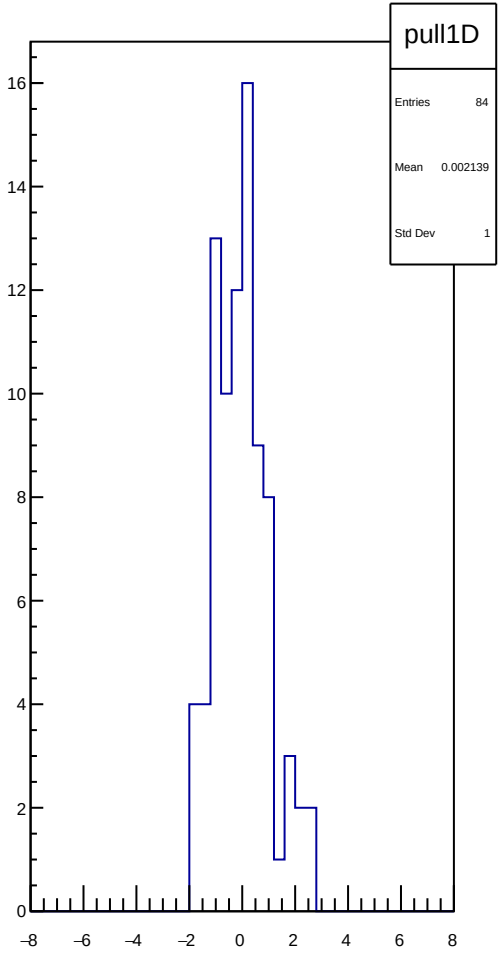

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.08e+05 / 83
p0 1.631e−11 ± 1.511e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

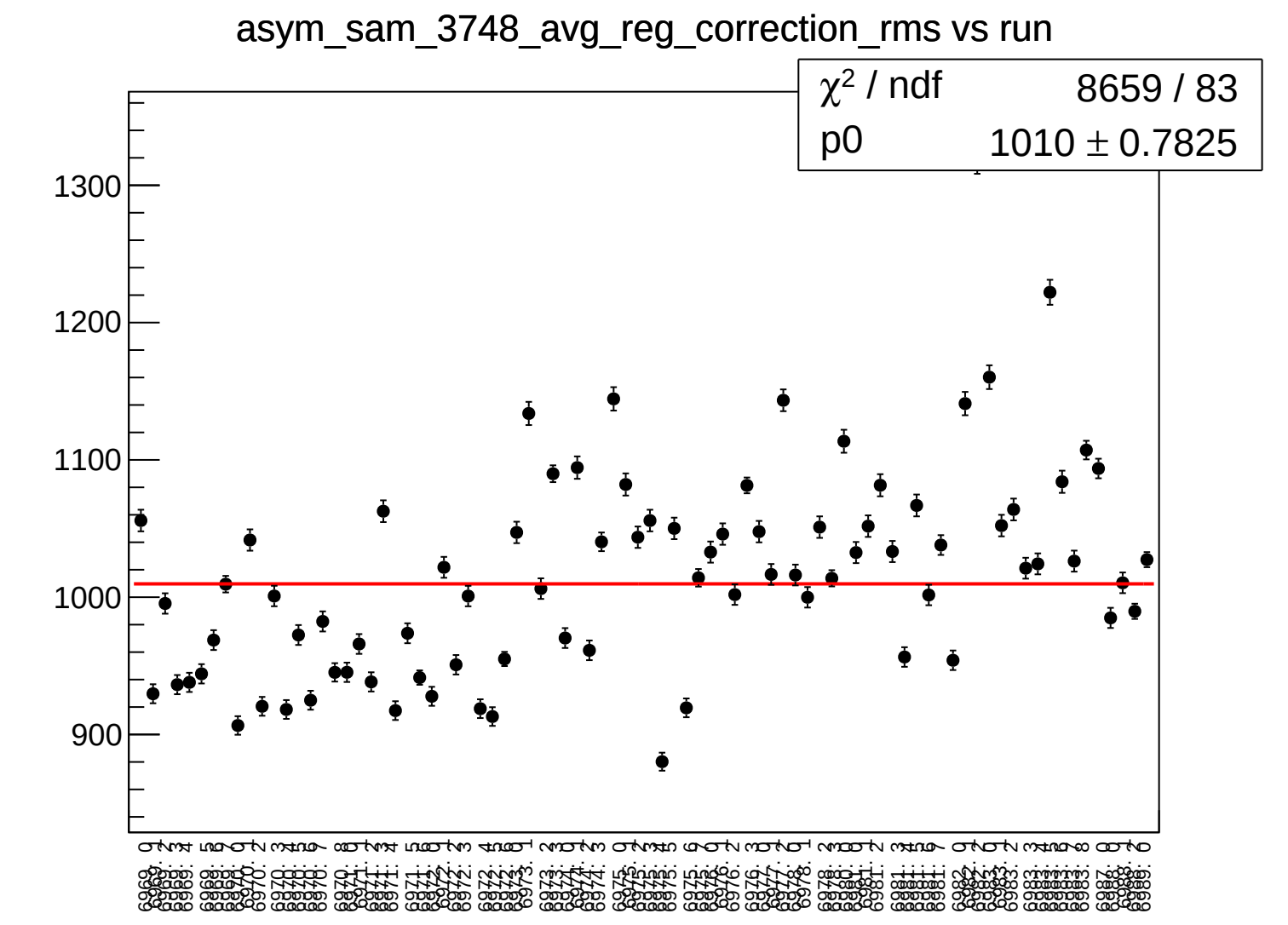

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 97.55 / 83
p0 −122.6 ± 101
pull
Entries 84
Mean 541.9
Std Dev 0

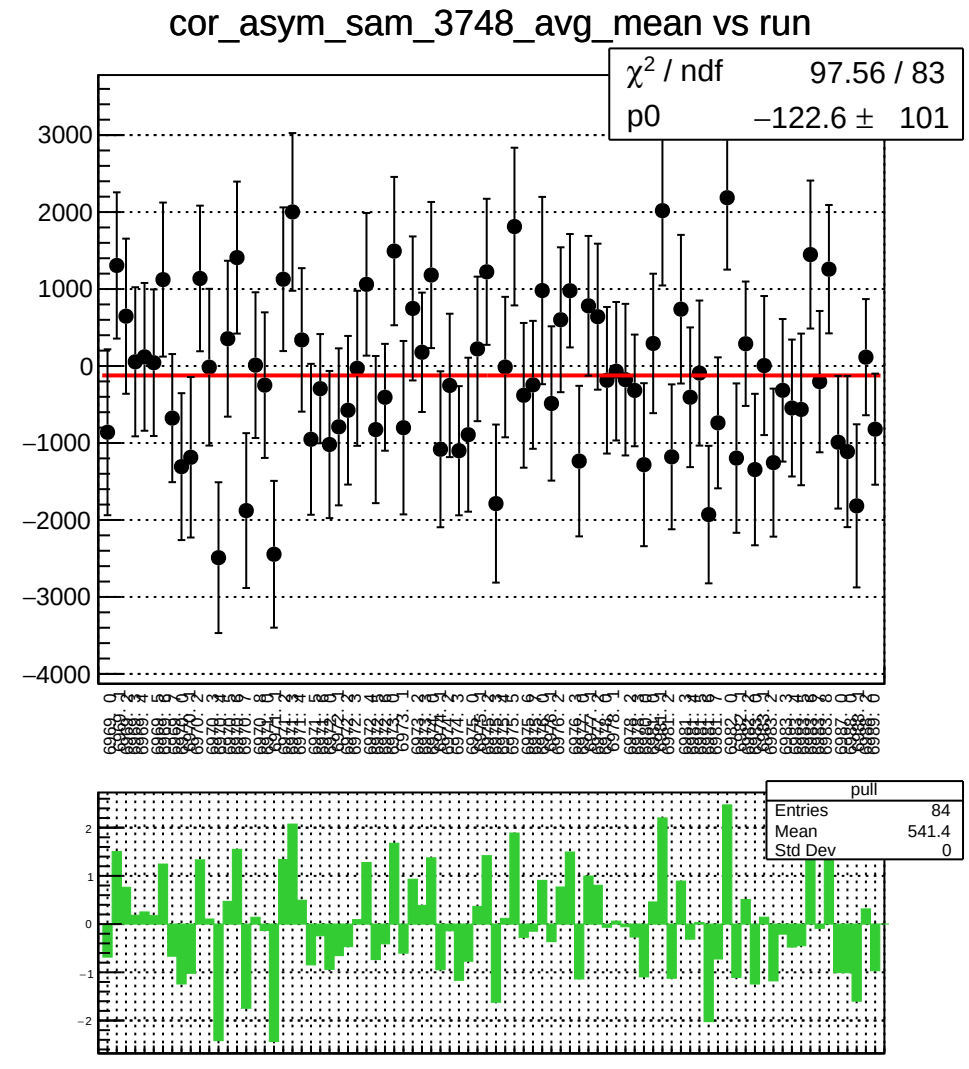

pull1D
Entries 84
Mean −0.003347
Std Dev 1.078

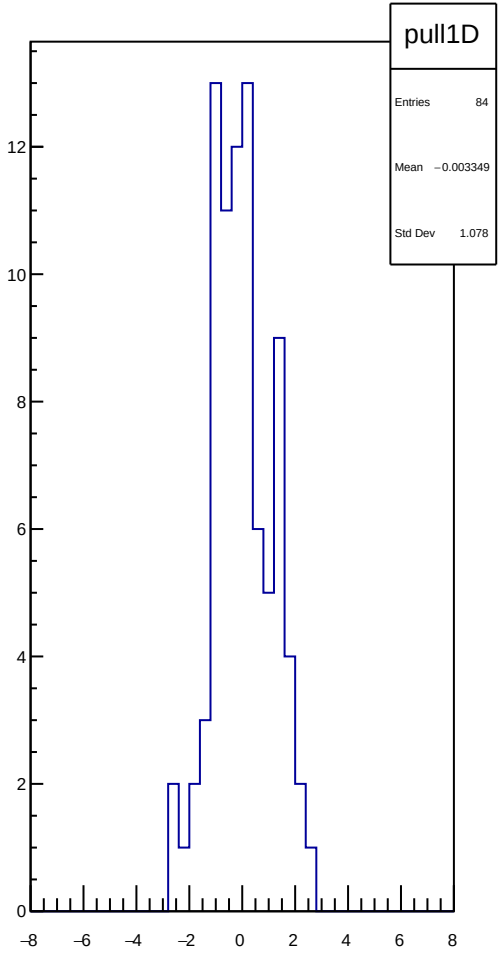

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 4307 / 83
p0 92.31 ± 0.07145
115
110
105
100
95
90
85

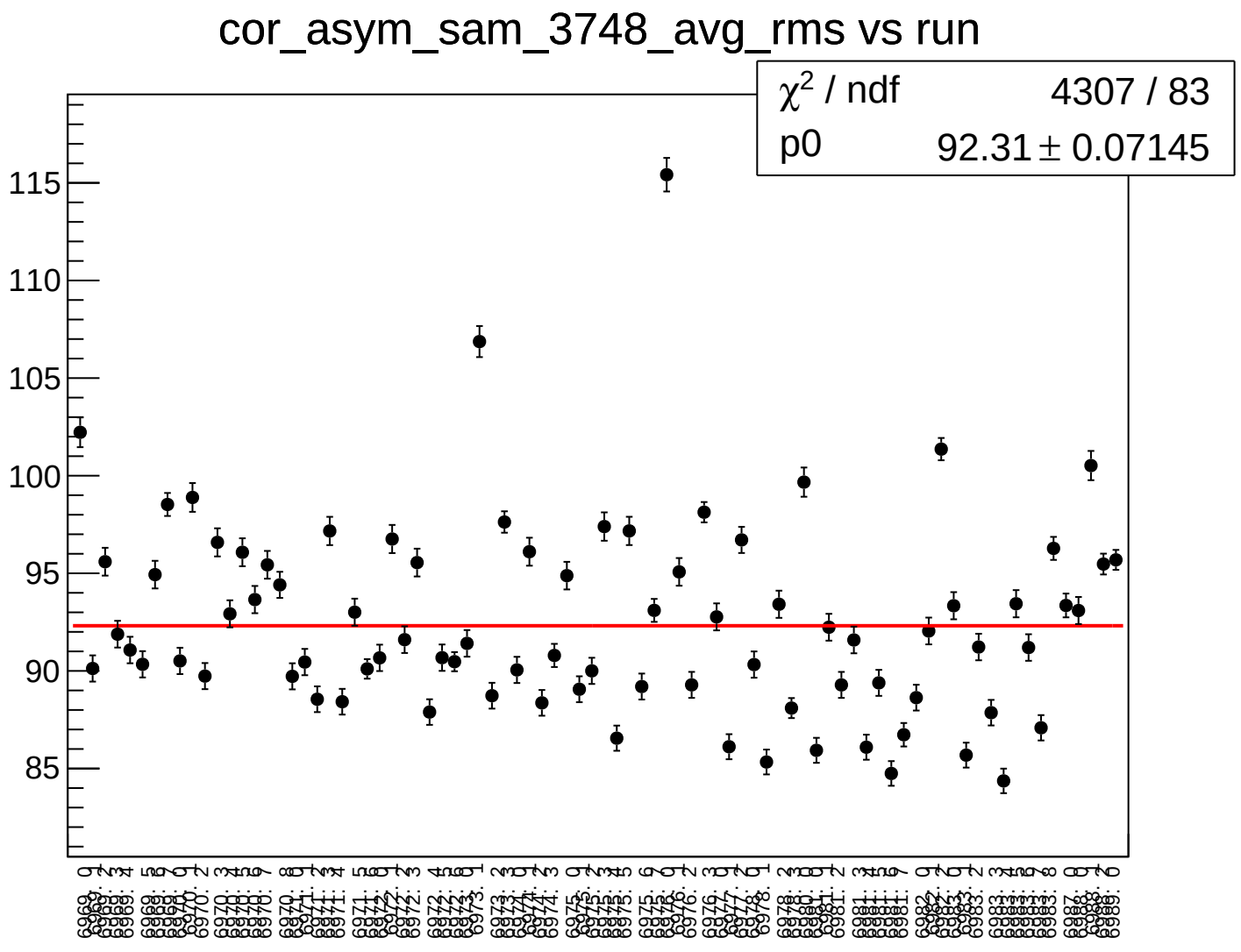

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 84.08 / 83
p0 −661.4 ± 1107
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −2229
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

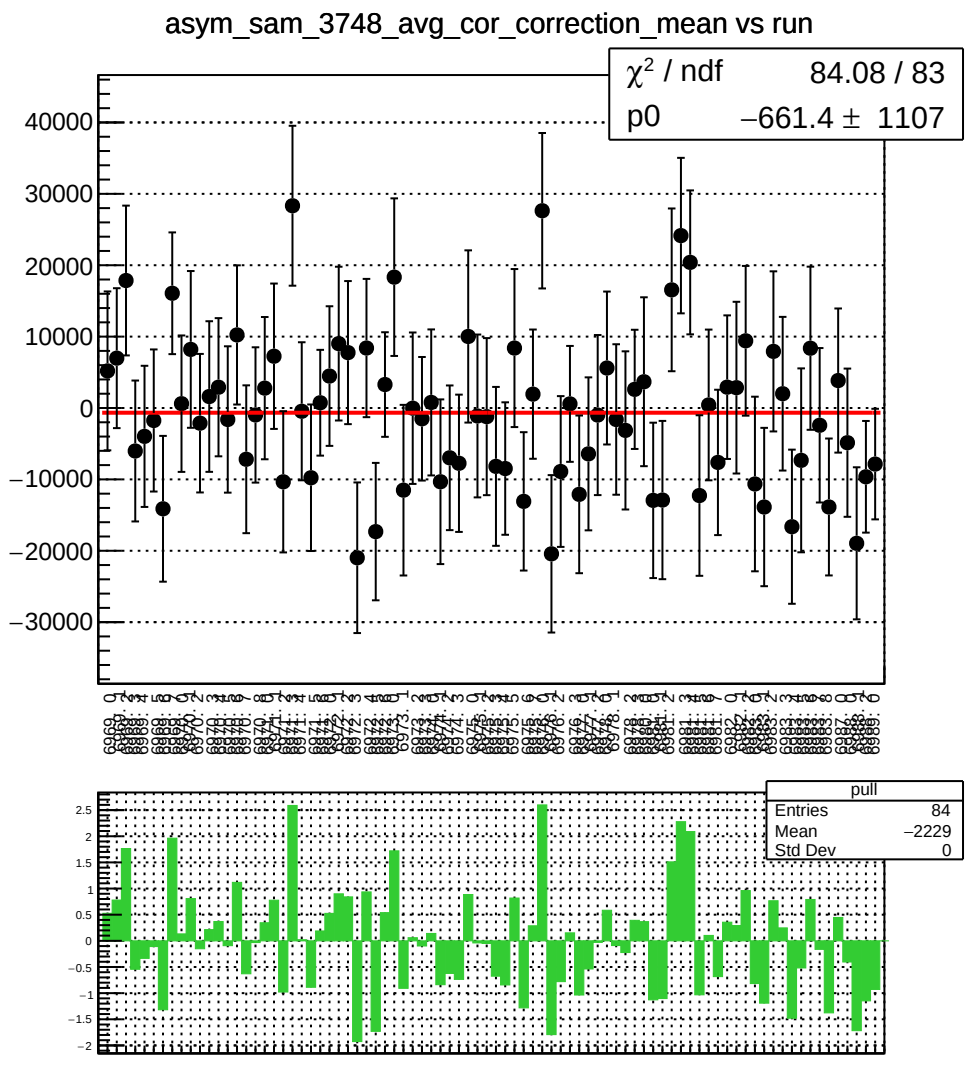

pull1D
Entries 84
Mean 0.002139
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

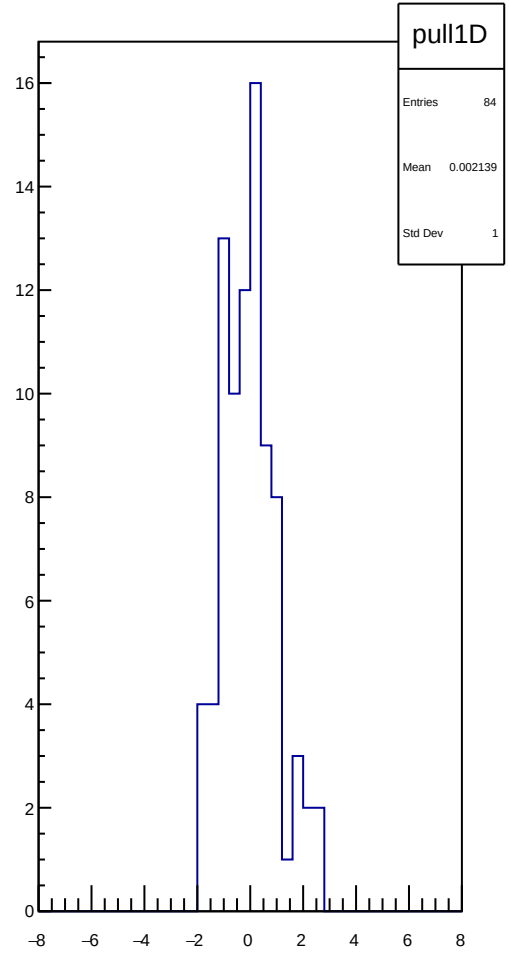

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 8659 / 83
p0 1010 ± 0.7825
1300
1200
1100
1000
900

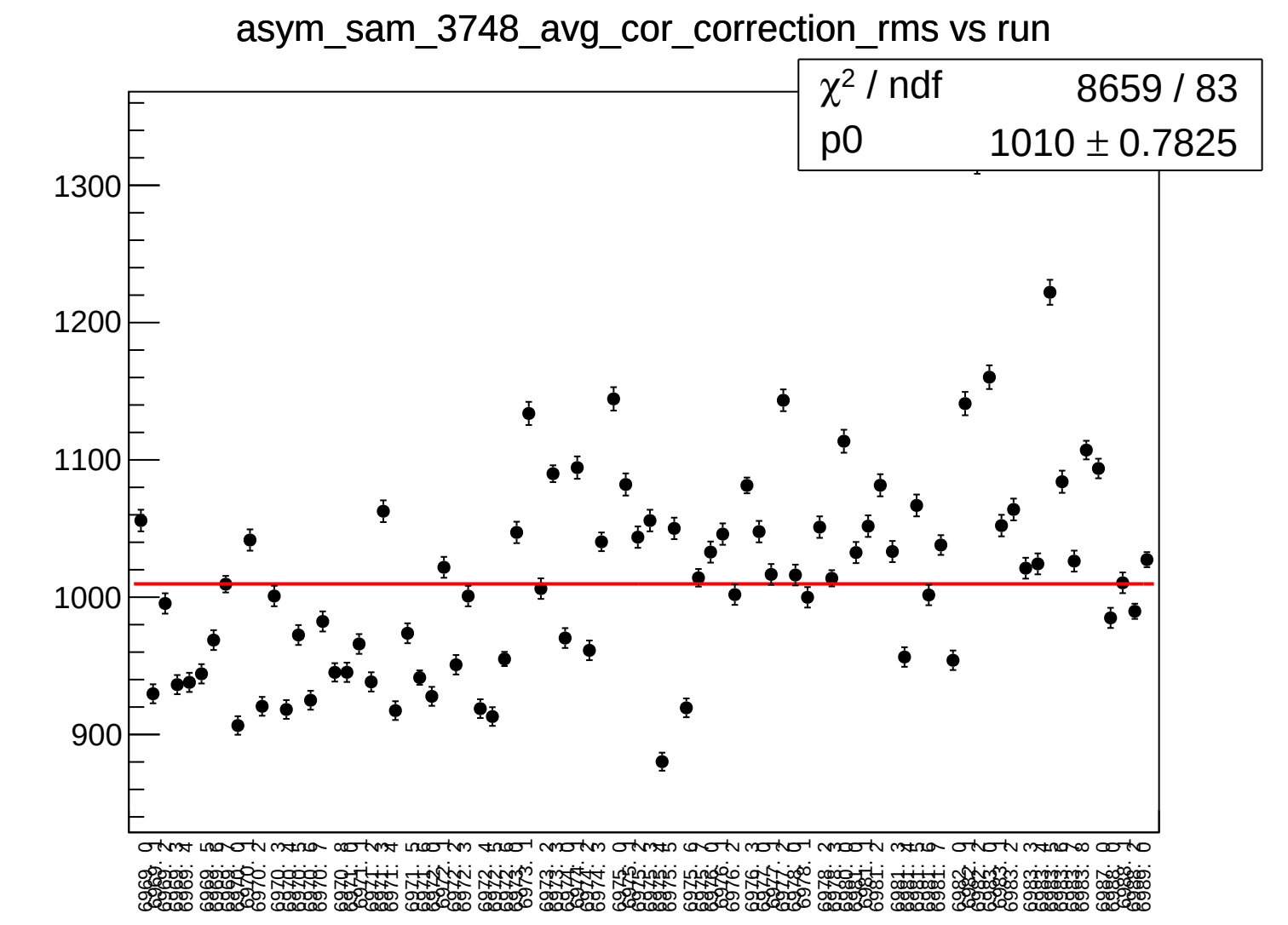

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 97.56 / 83
p0 −122.6 ± 101
pull
Entries 84
Mean 541.4
Std Dev 0

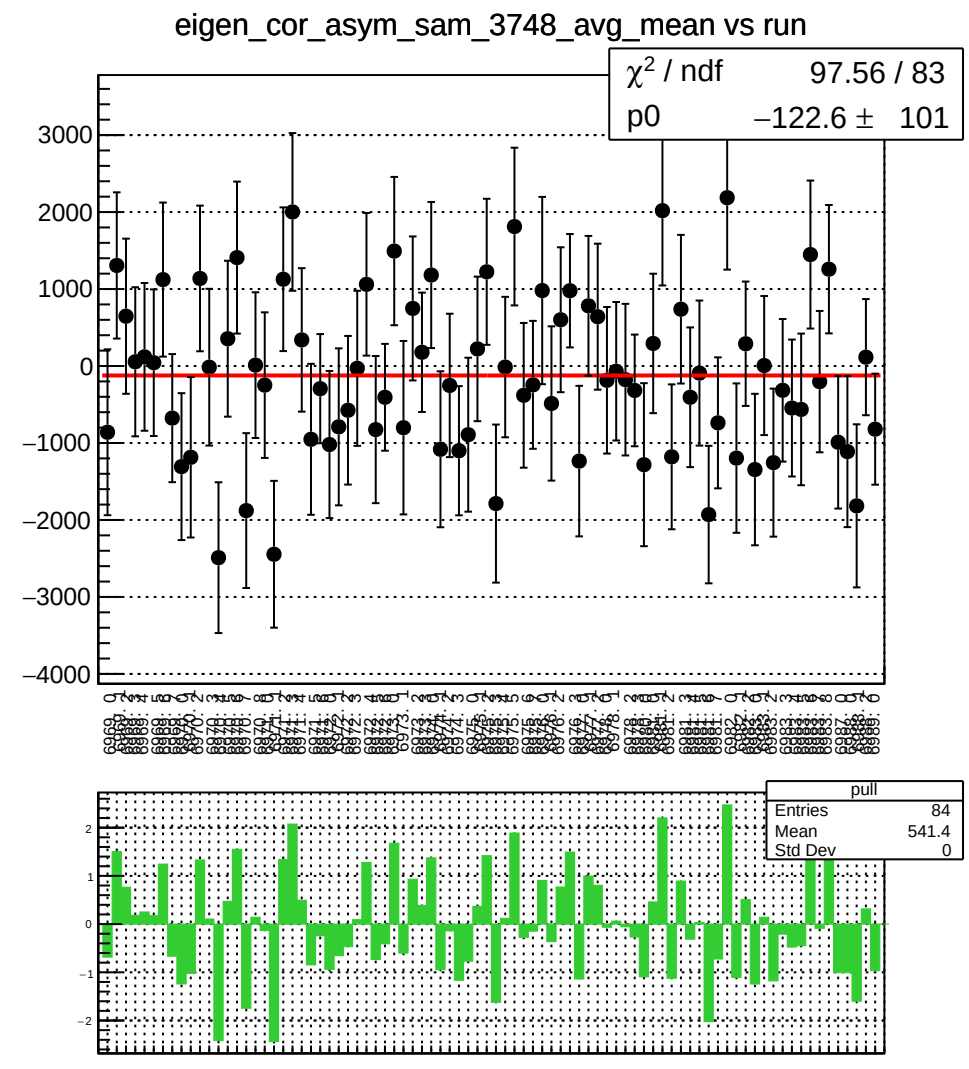

pull1D
Entries 84
Mean −0.003349
Std Dev 1.078

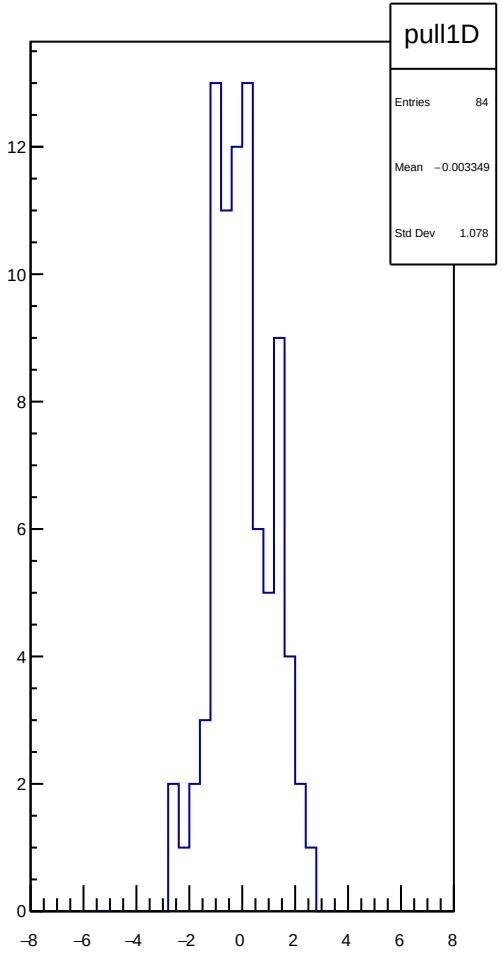

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 4307 / 83
p0 92.31 ± 0.07145
115
110
105
100
95
90
85

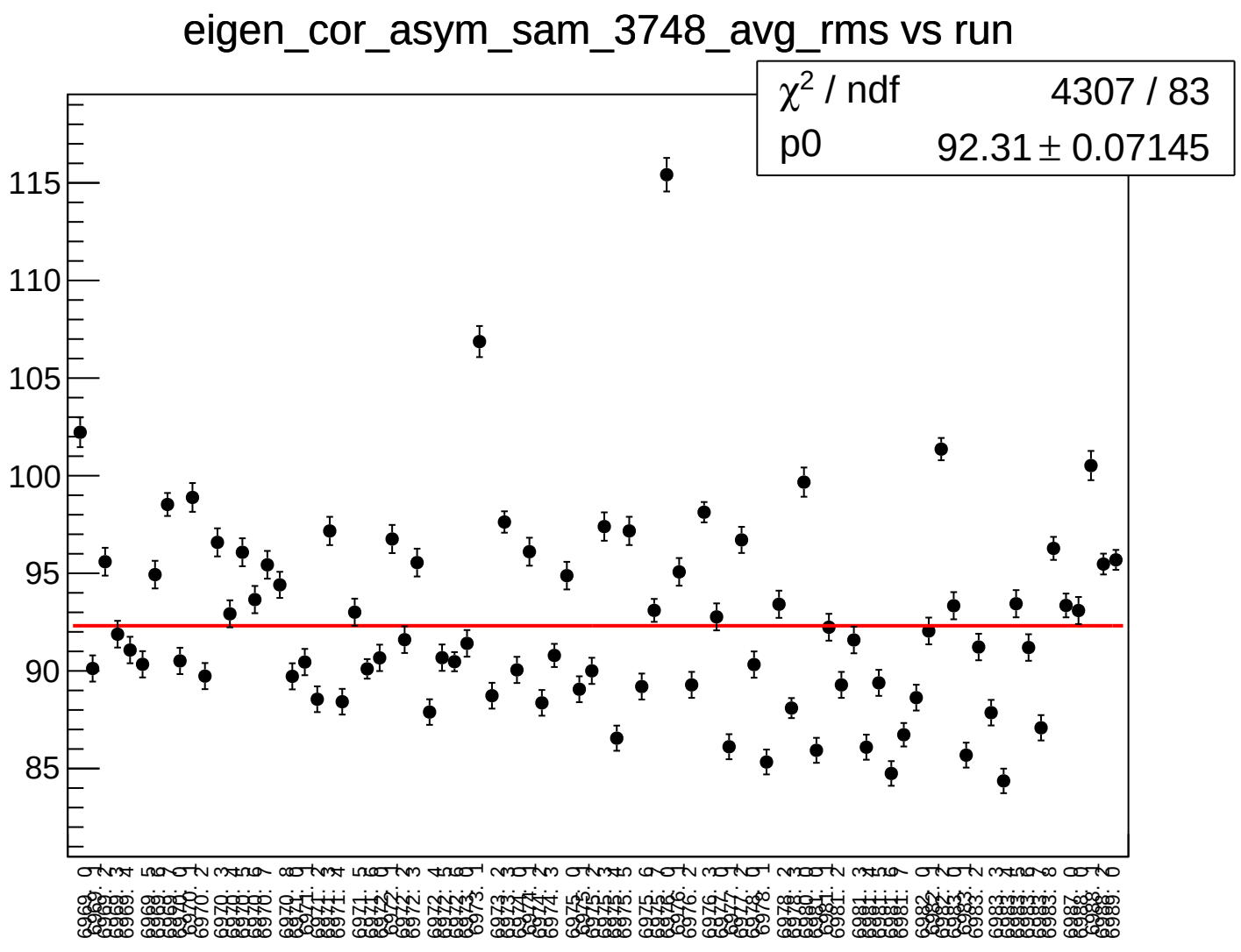

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 84.08 / 83
p0 −661.4 ± 1107
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −2229
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

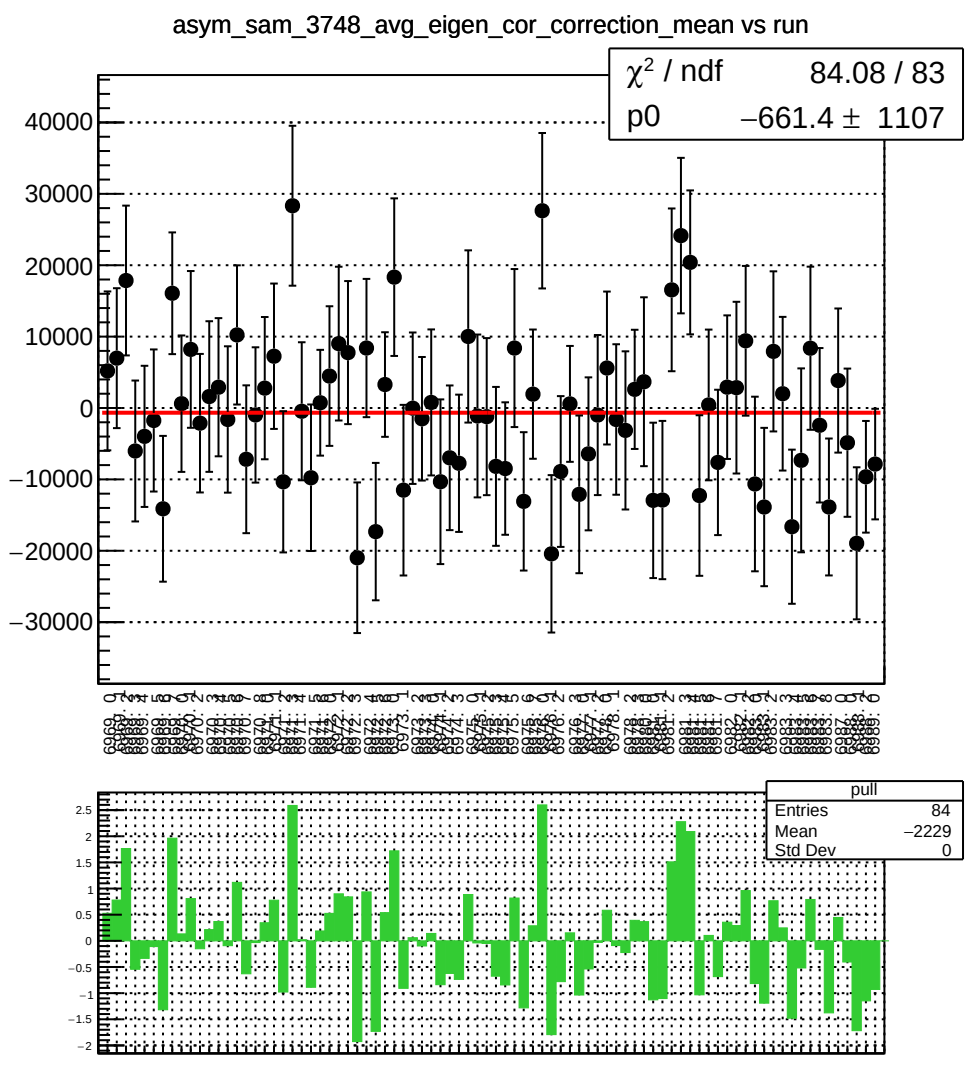

pull1D
Entries 84
Mean 0.002139
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

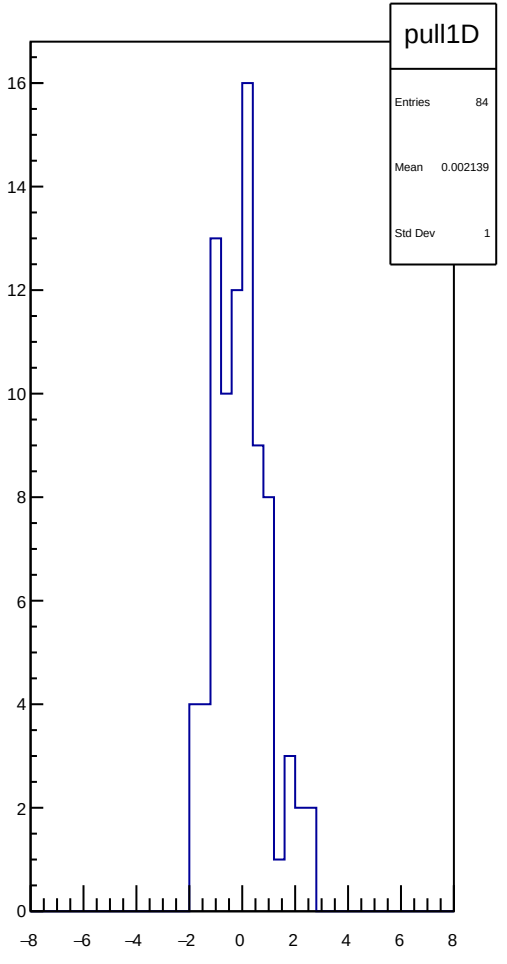

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 8659 / 83
p0 1010 ± 0.7825
1300
1200
1100
1000
900

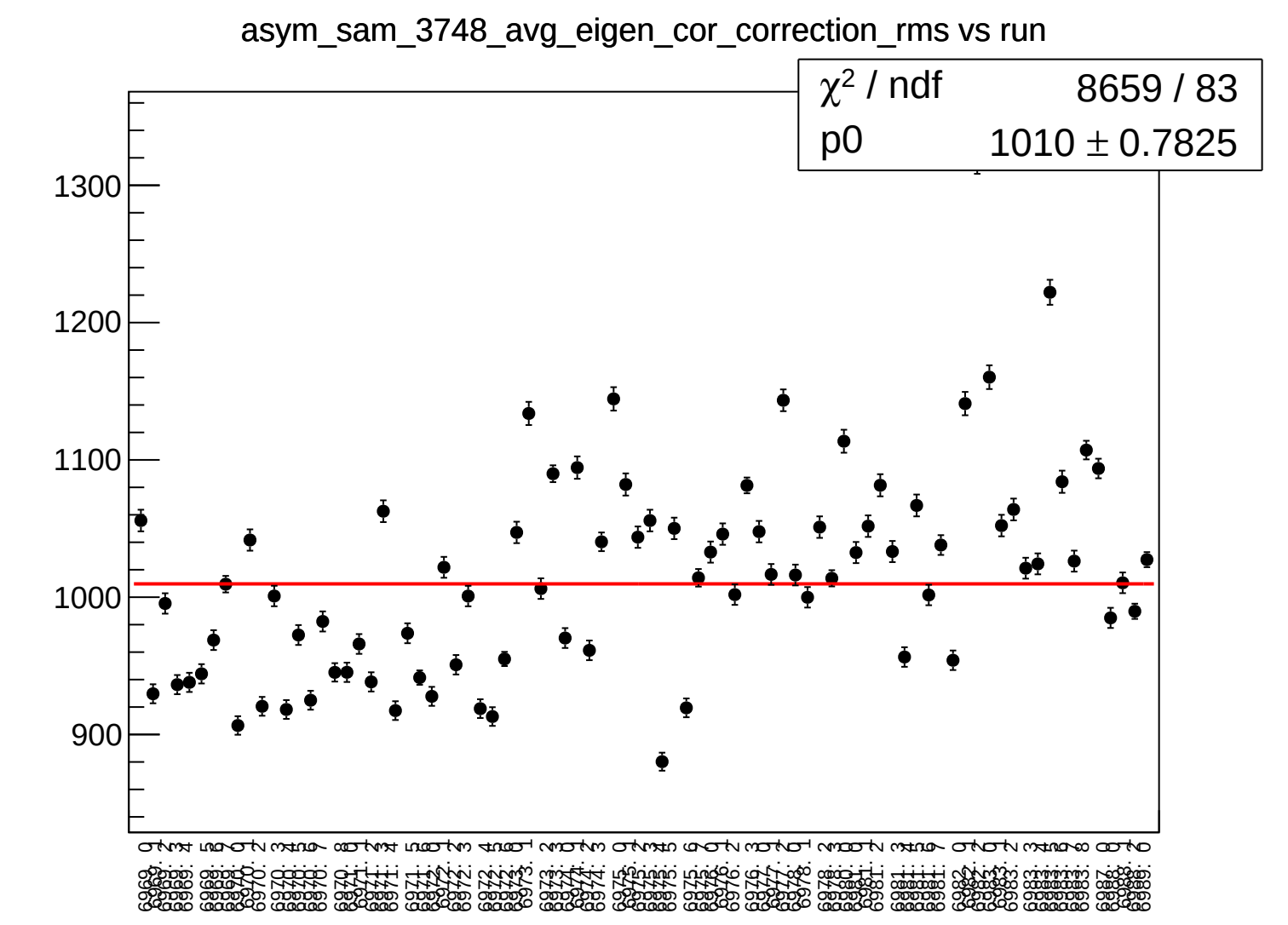

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 97.56 / 83
p0 −122.6 ± 101
pull
Entries 84
Mean 541.4
Std Dev 0

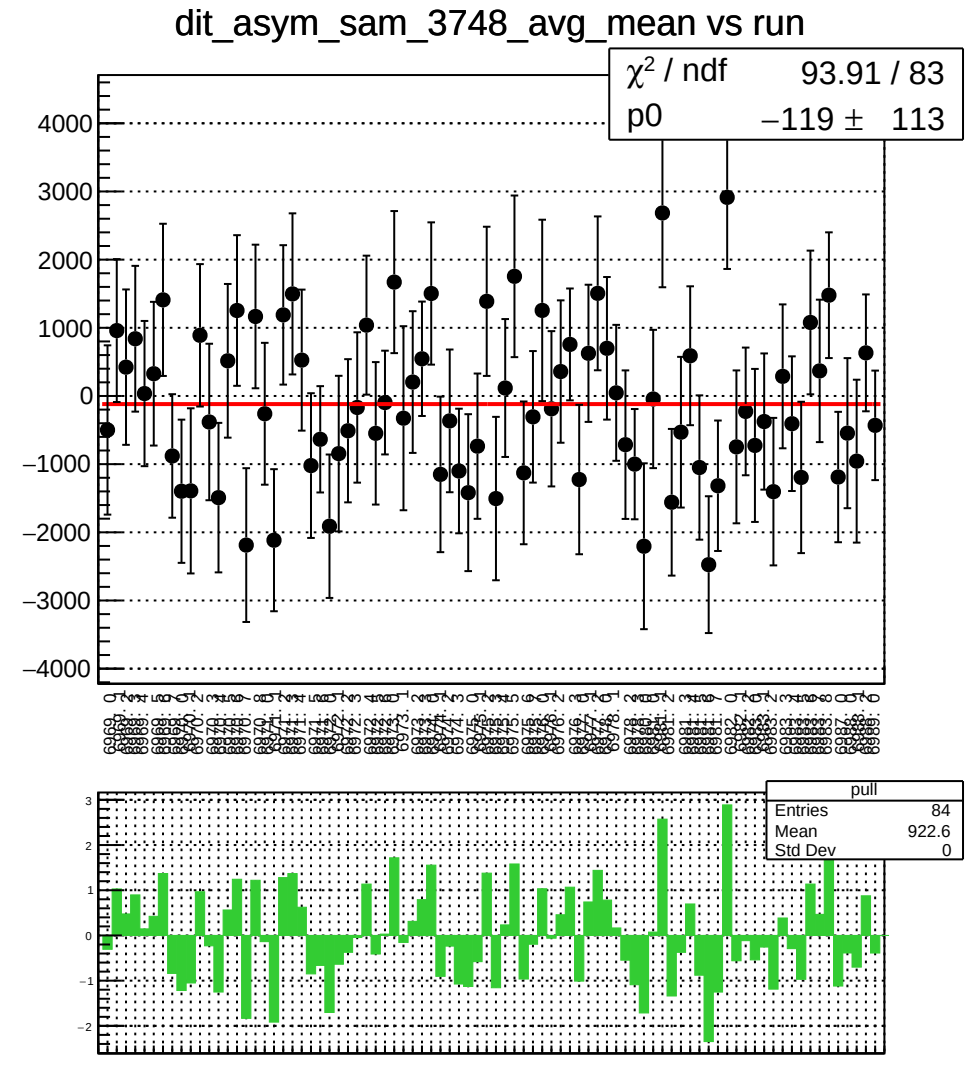

pull1D
Entries 84
Mean −0.003349
Std Dev 1.078

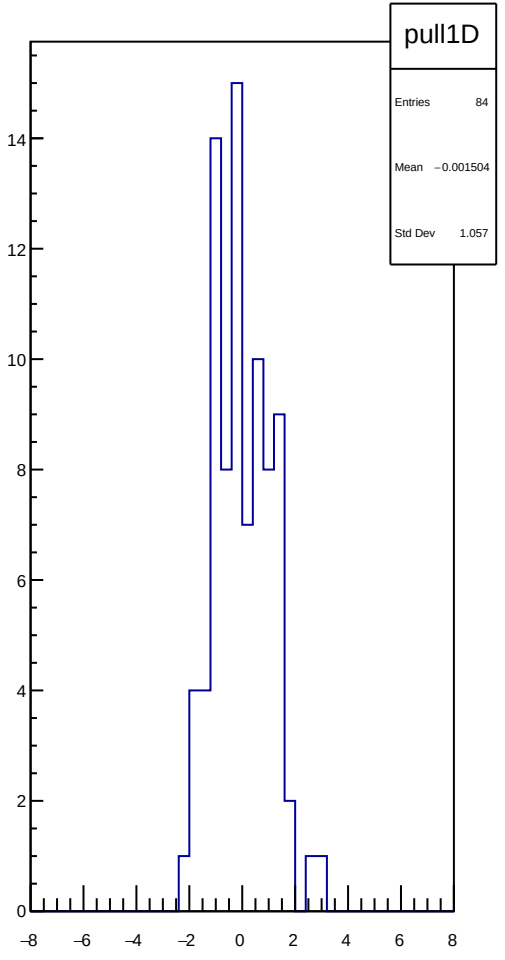

eigen_cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 4307 / 83
p0 92.31 ± 0.07145
115
110
105
100
95
90
85

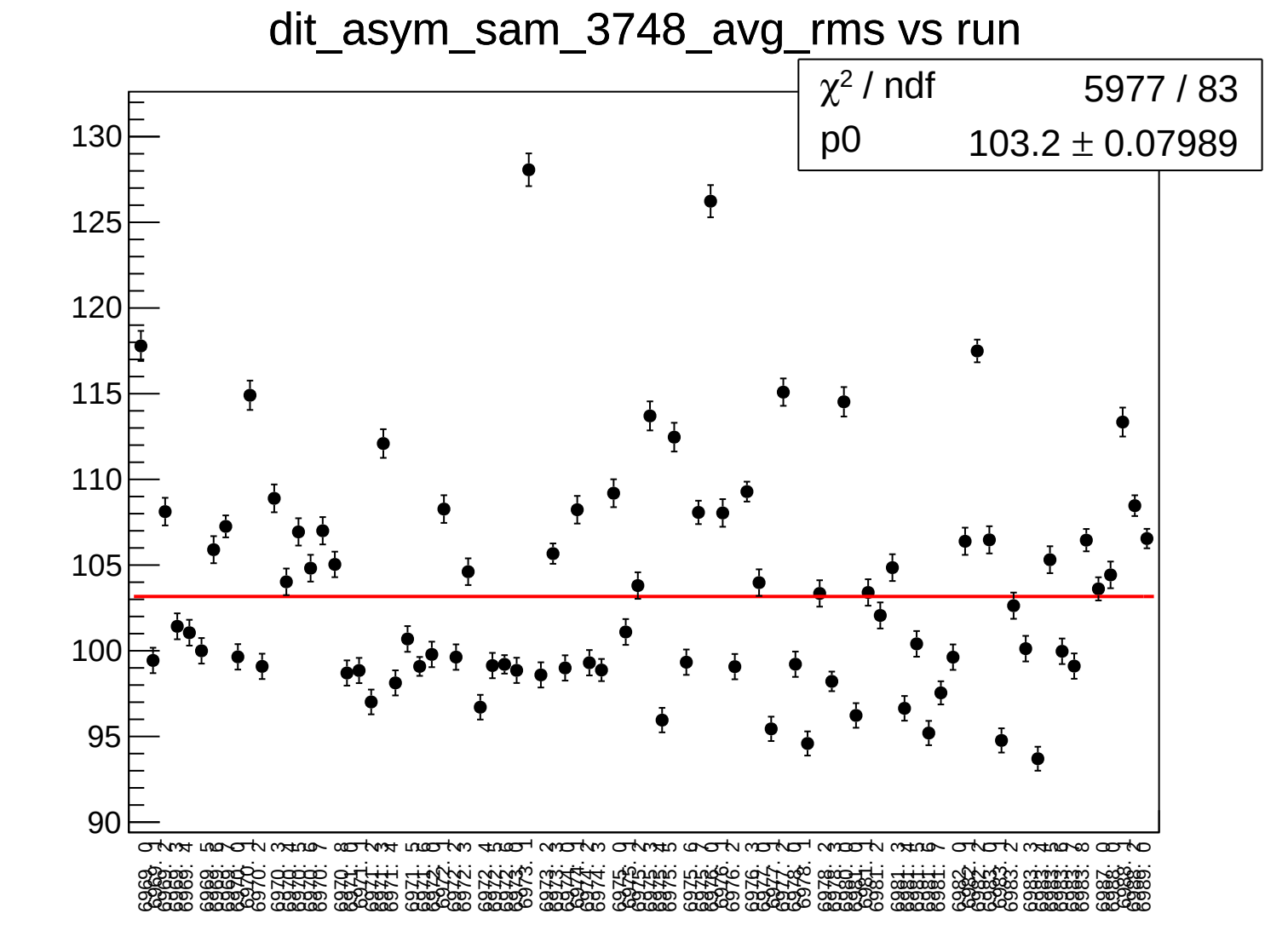

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.08 / 83
p0 −661.4 ± 1107
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −2229
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

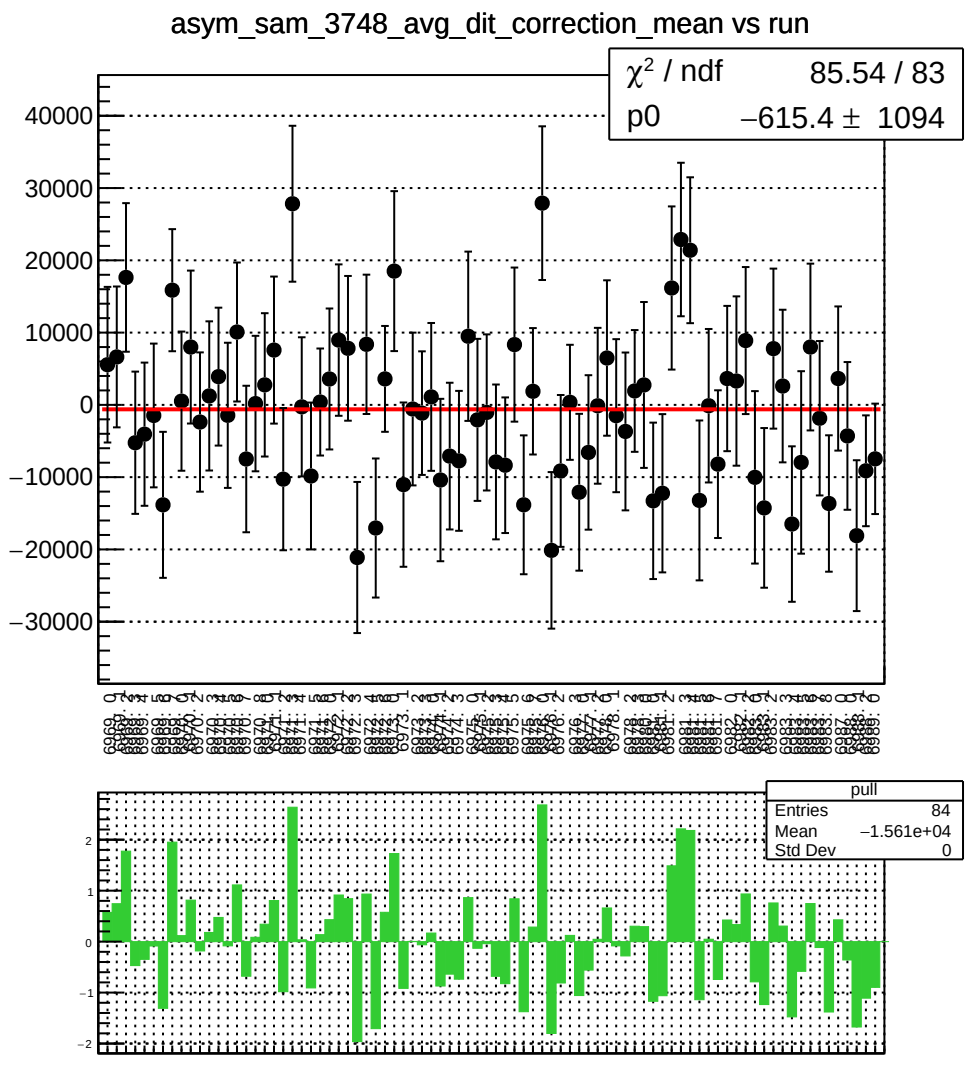

pull1D
Entries 84
Mean 0.002139
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

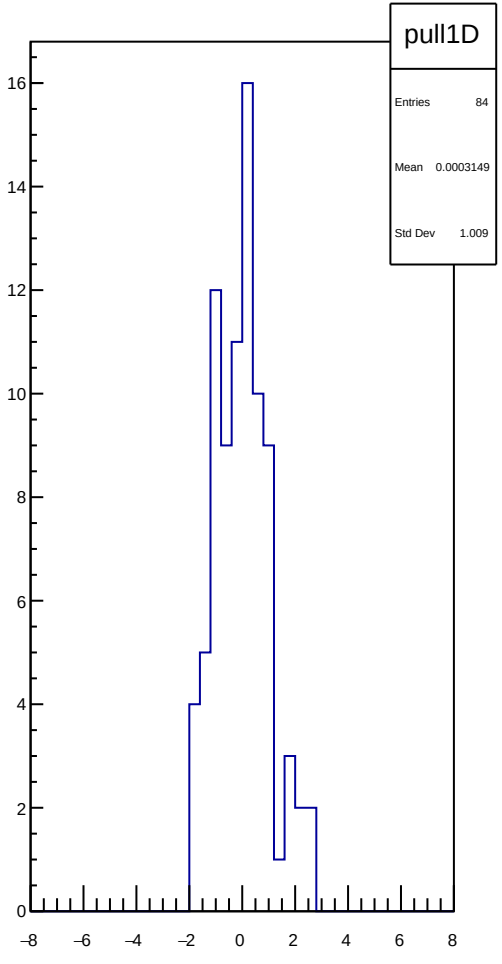

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 8659 / 83
p0 1010 ± 0.7825
1300
1200
1100
1000
900

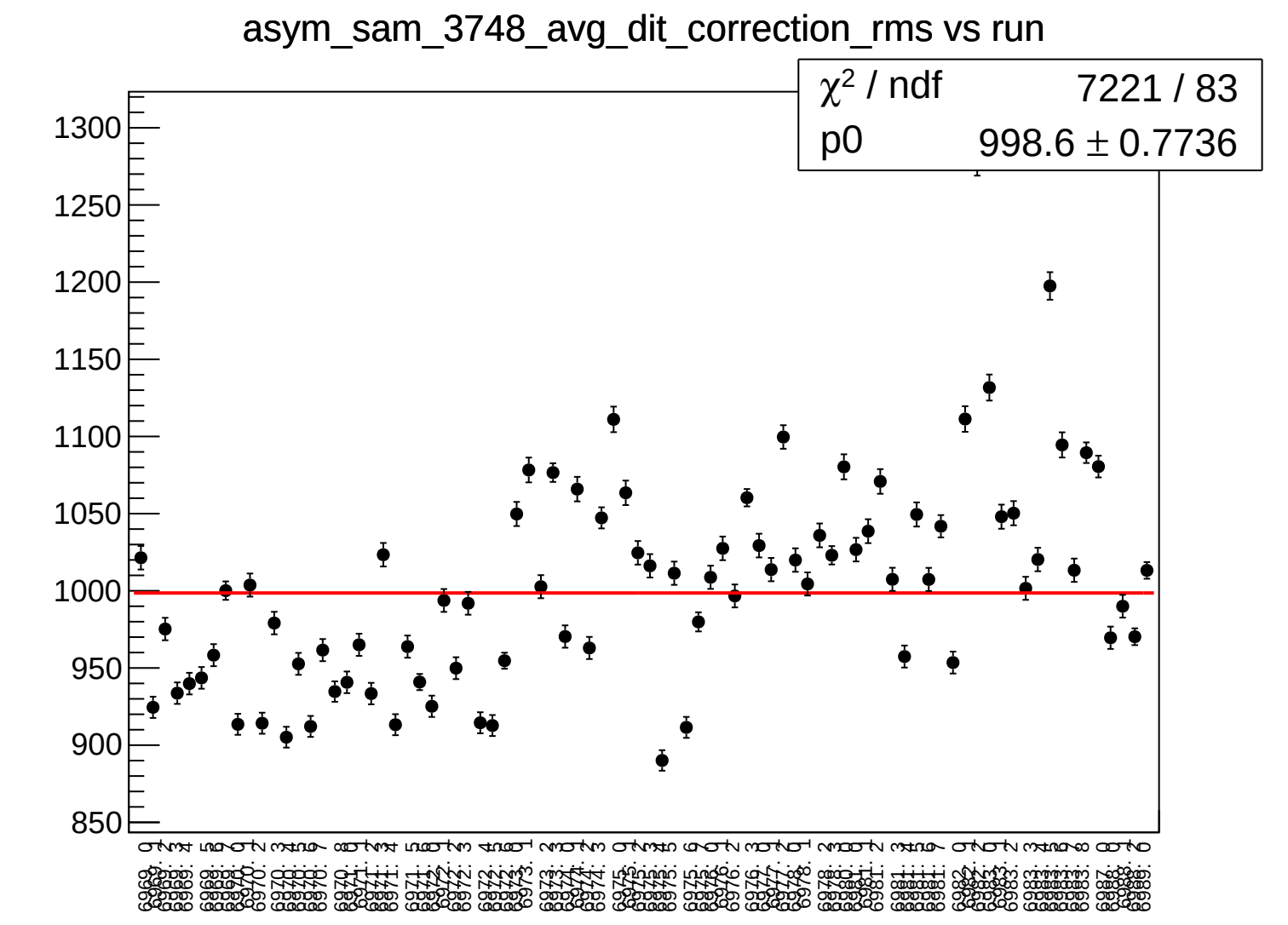

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 93.91 / 83
p0 −119 ± 113
pull
Entries 84
Mean 922.6
Std Dev 0

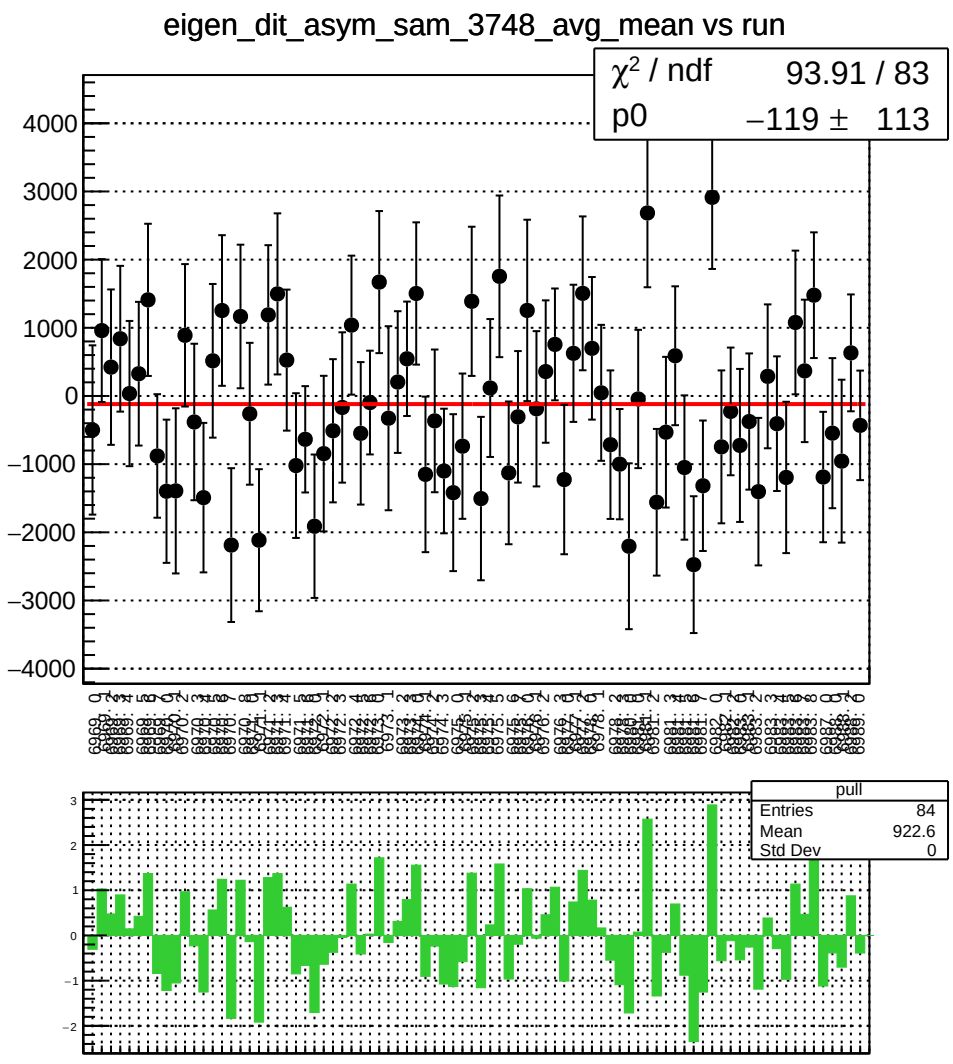

pull1D
Entries 84
Mean −0.001504
Std Dev 1.057

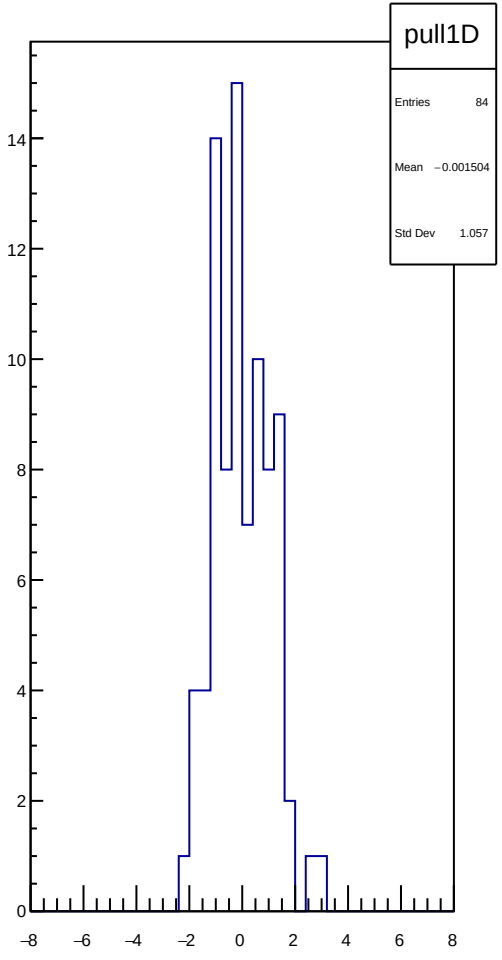

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 5977 / 83
p0 103.2 ± 0.07989
130
125
120
115
110
105
100
95
90

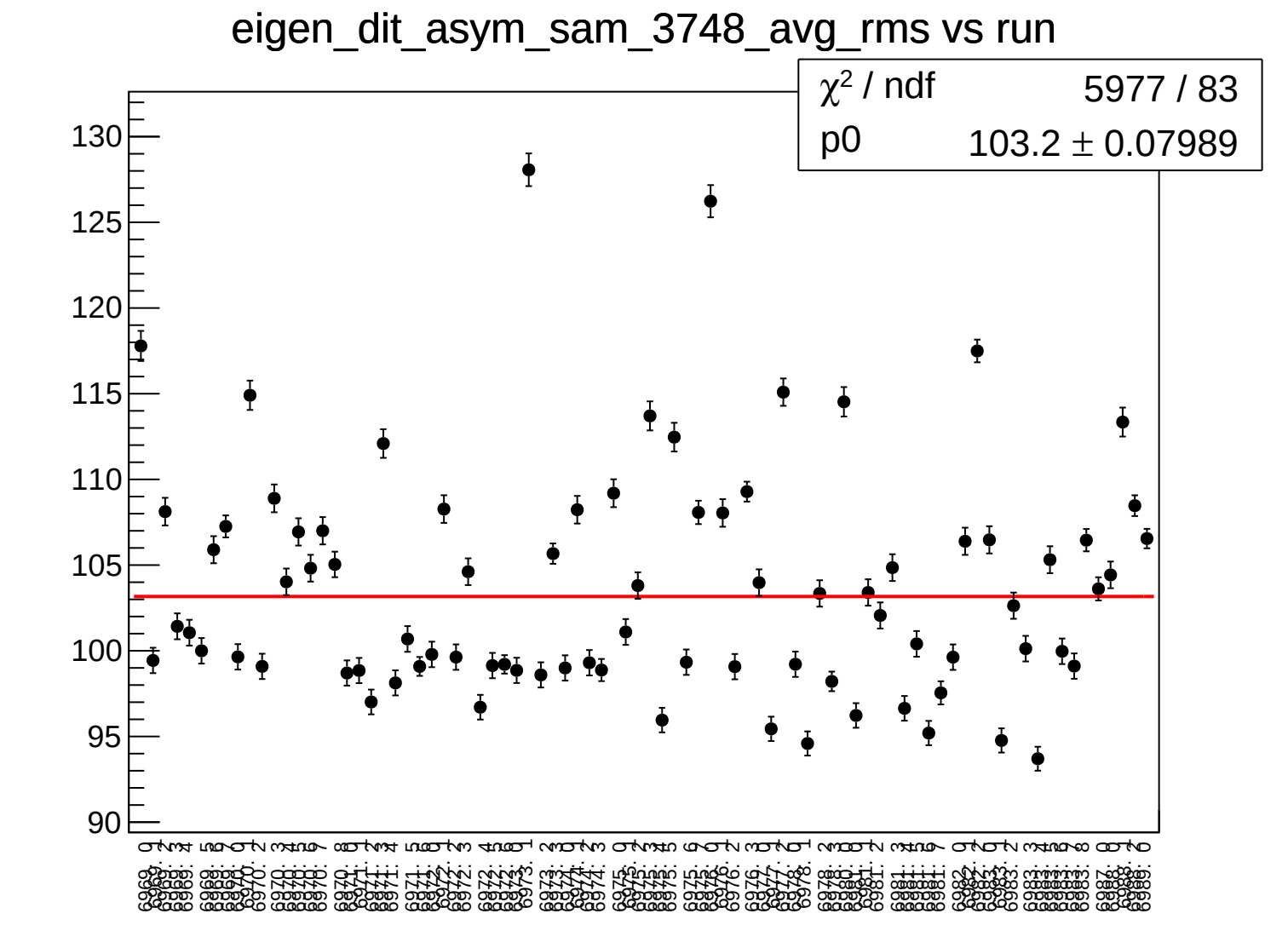

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 85.54 / 83
p0 −615.4 ± 1094
pull
Entries 84
Mean −1.561e+04
Std Dev 0

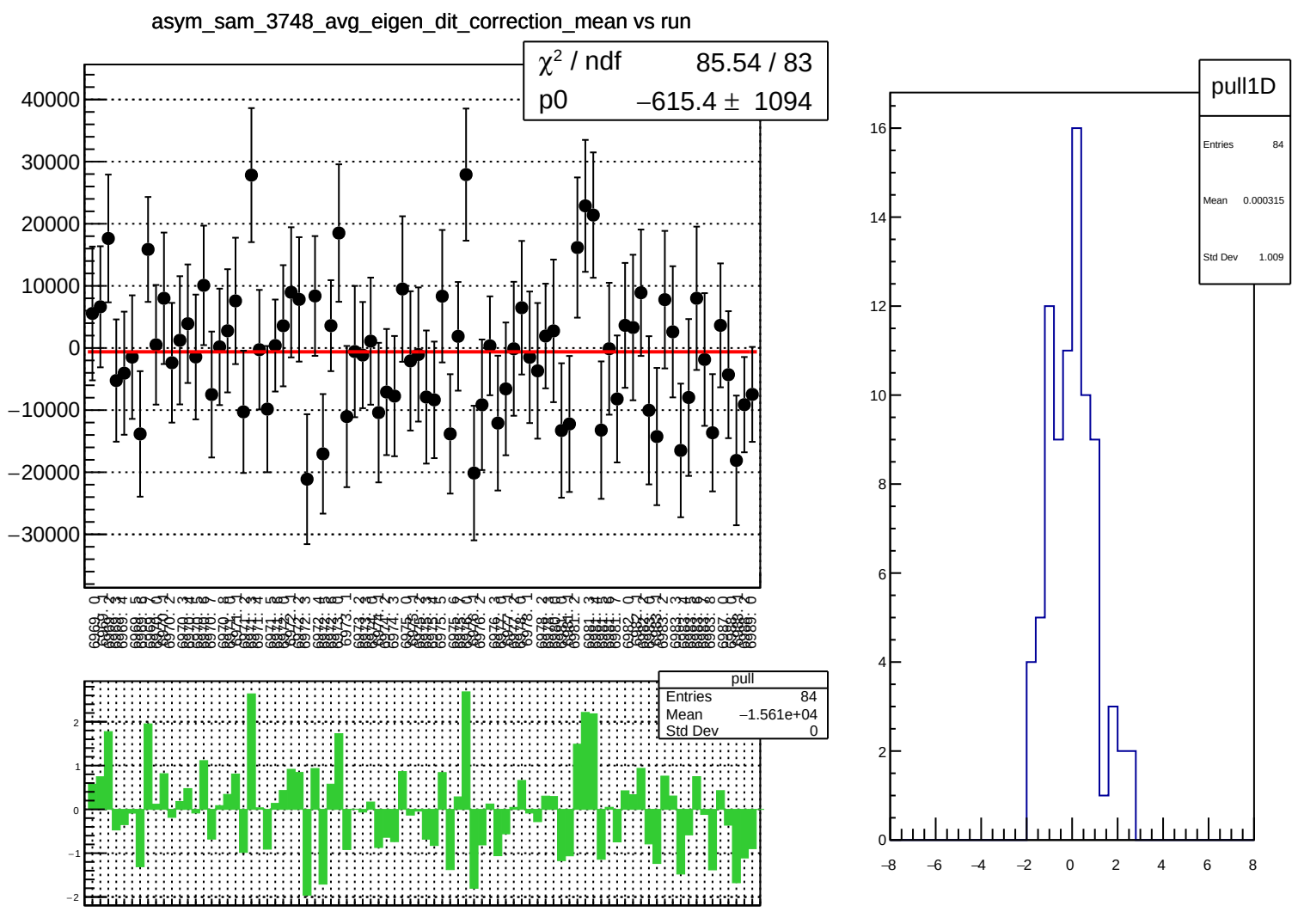

pull1D
Entries 84
Mean 0.0003149
Std Dev 1.009

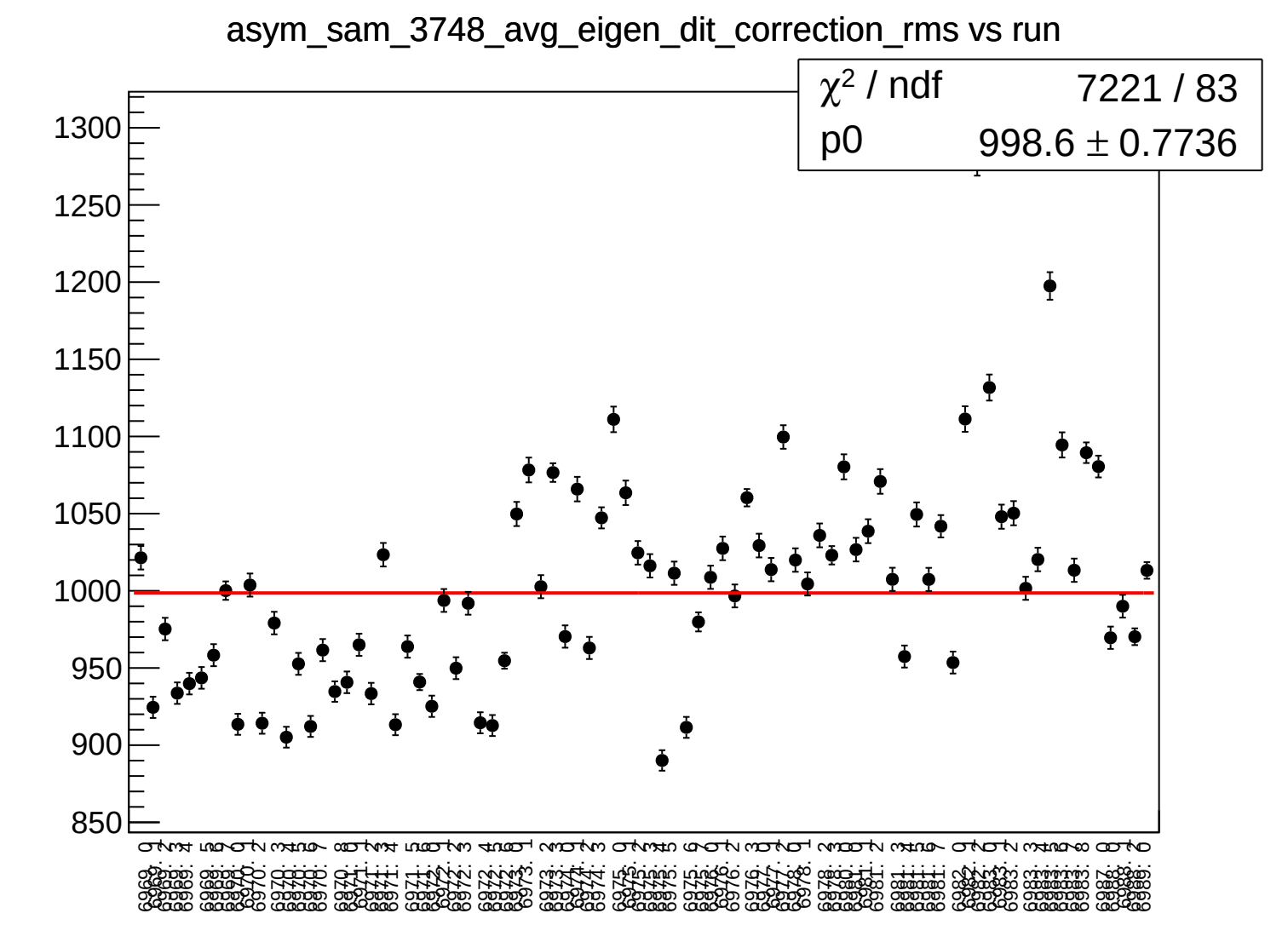

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 7221 / 83
p0 998.6 ± 0.7736
1300
1250
1200
1150
1100
1050
1000
950
900
850

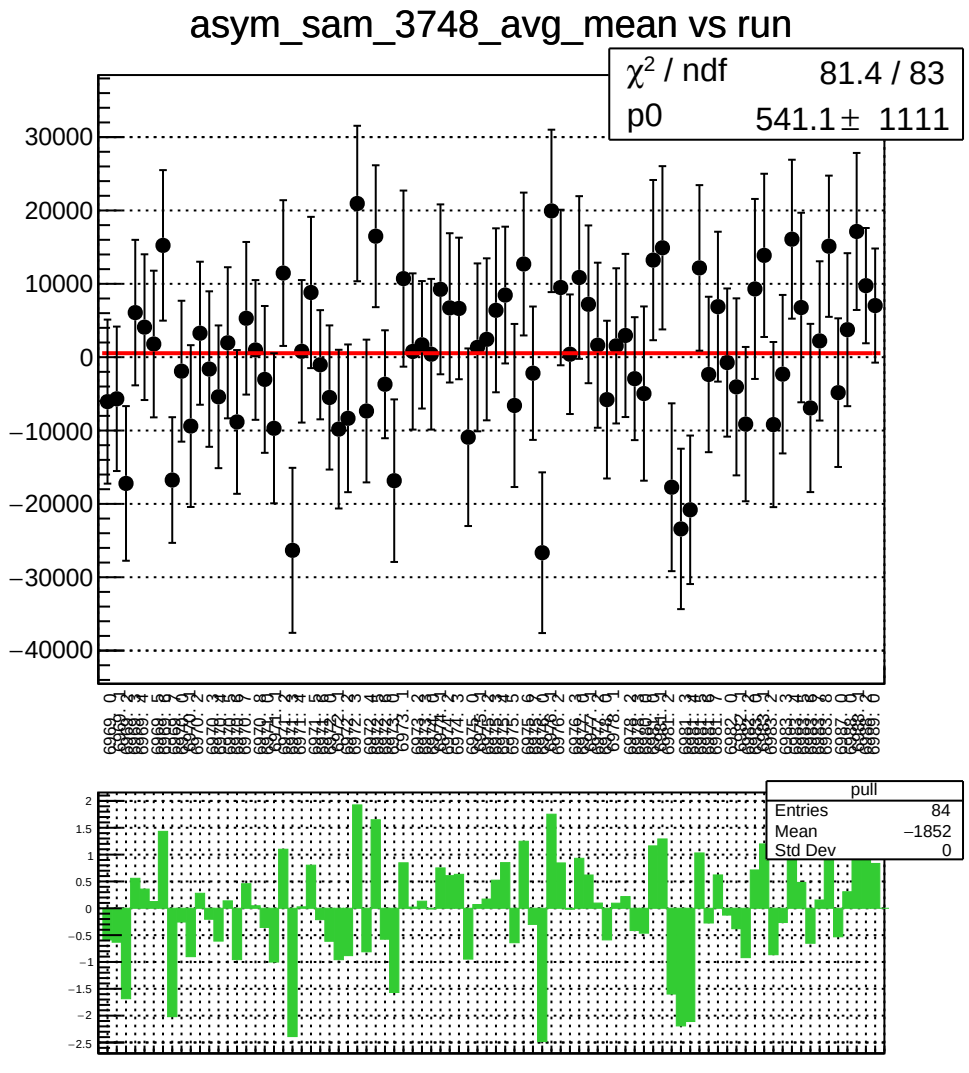

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 93.91 / 83
p0 −119 ± 113
pull
Entries 84
Mean 922.6
Std Dev 0

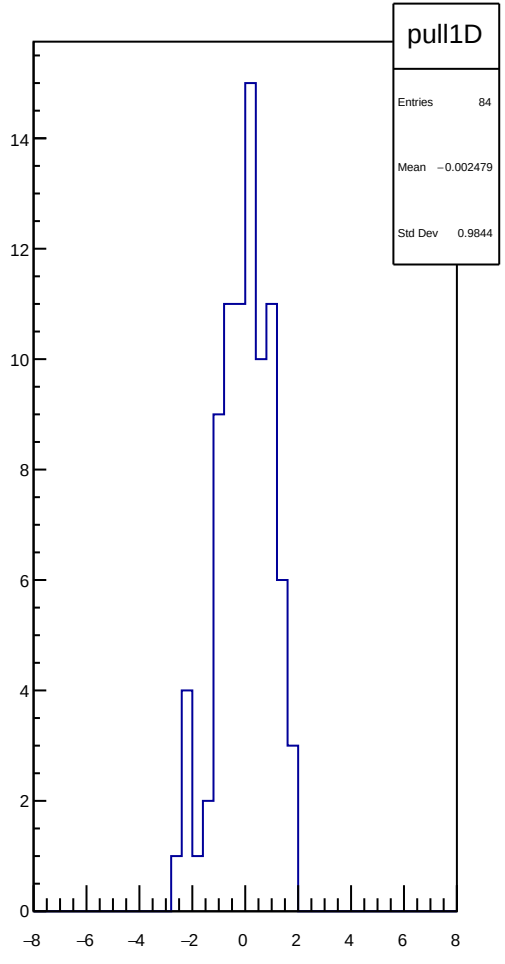

pull1D
Entries 84
Mean −0.001504
Std Dev 1.057

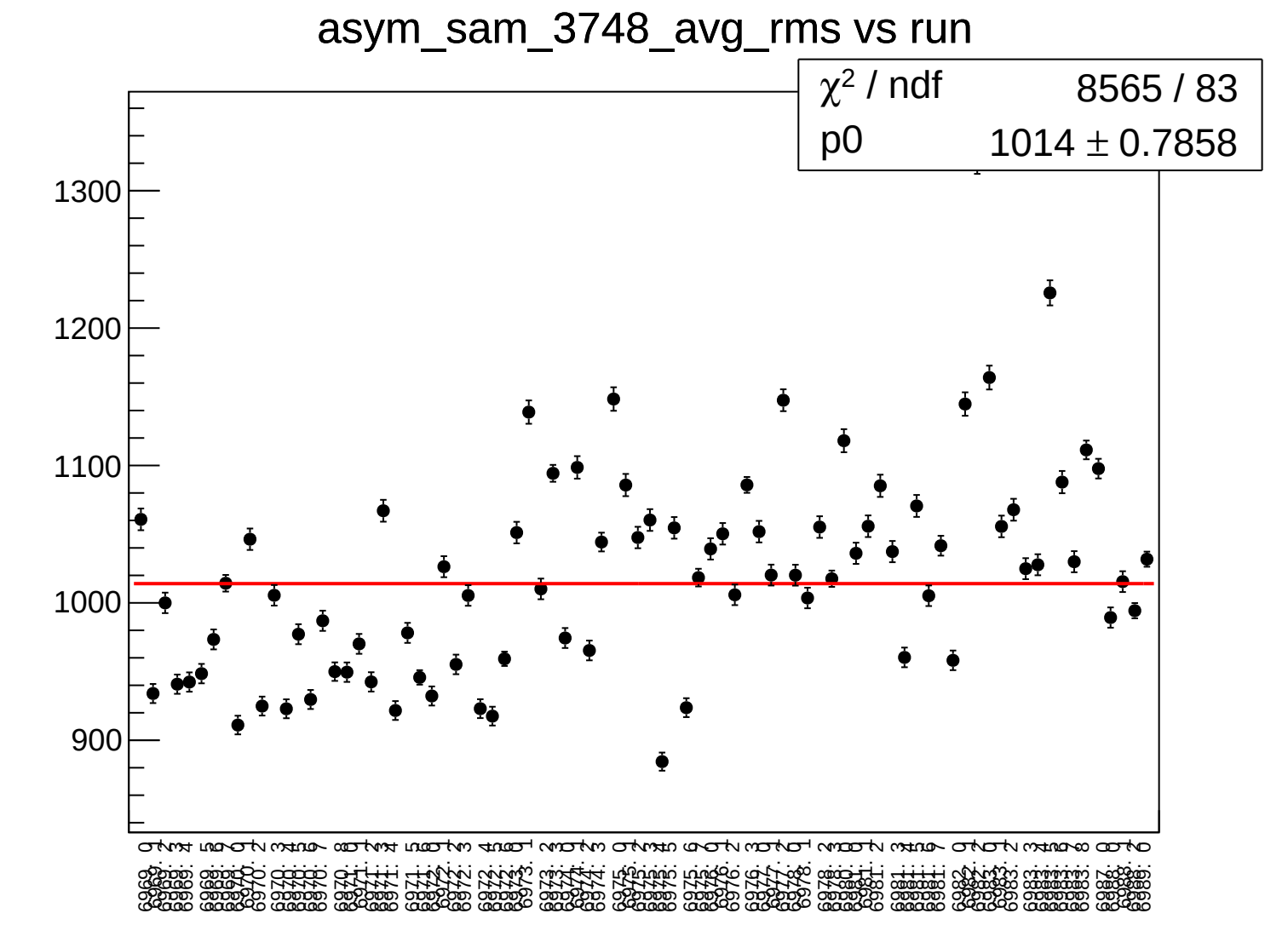

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 5977 / 83
p0 103.2 ± 0.07989
130
125
120
115
110
105
100
95
90

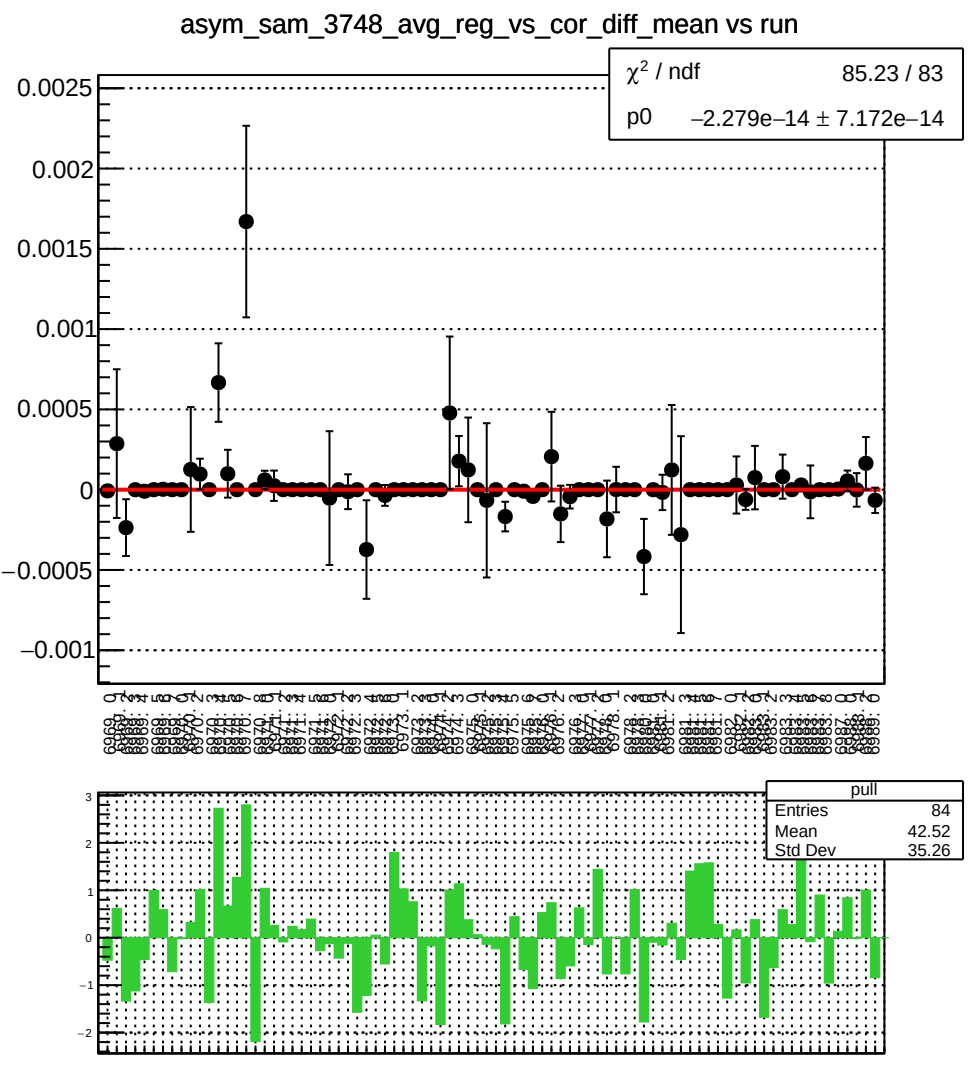

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.54 / 83
p0 −615.4 ± 1094
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −1.561e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.000315
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

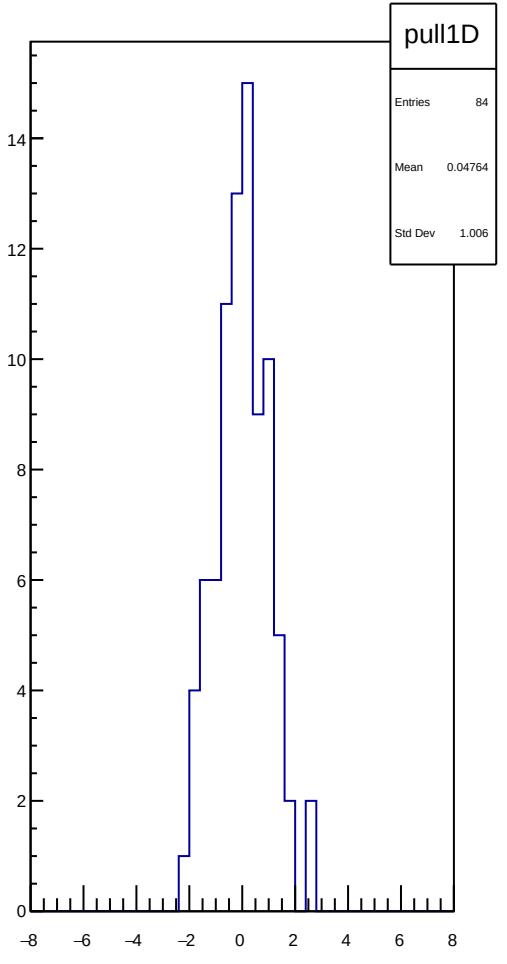

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 7221 / 83
p0 998.6 ± 0.7736
1300
1250
1200
1150
1100
1050
1000
950
900
850

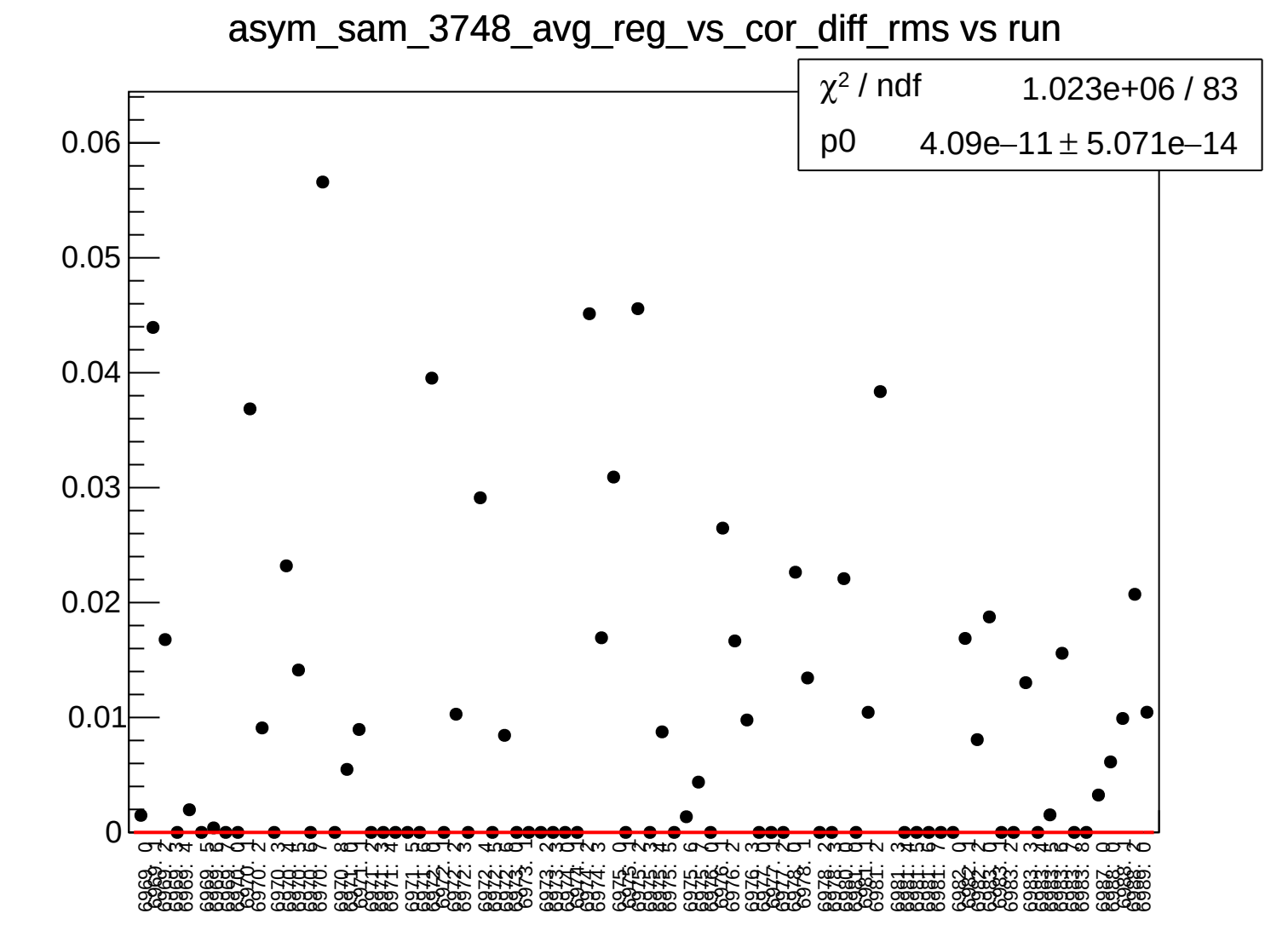

asym_sam_3748_avg_mean vs run
χ² / ndf 81.4 / 83
p0 541.1 ± 1111
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −1852
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

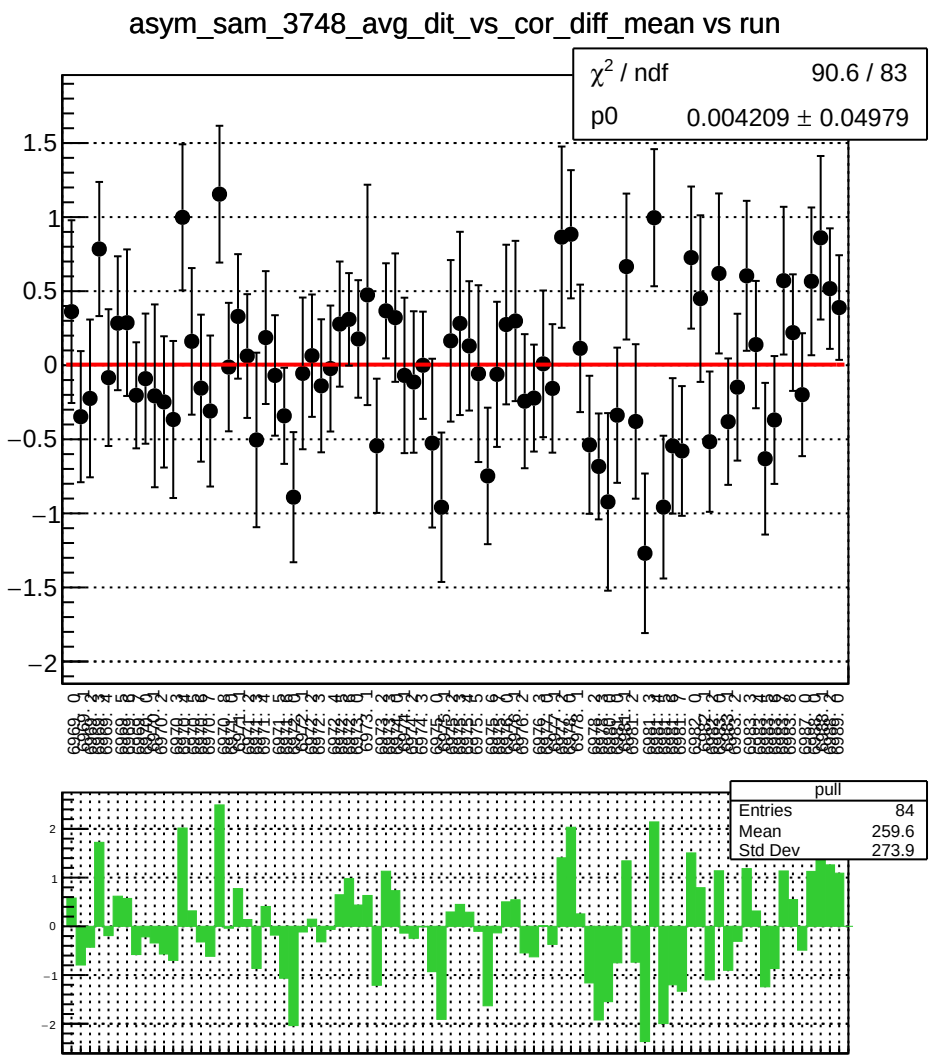

pull1D
Entries 84
Mean −0.002479
Std Dev 0.9844
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

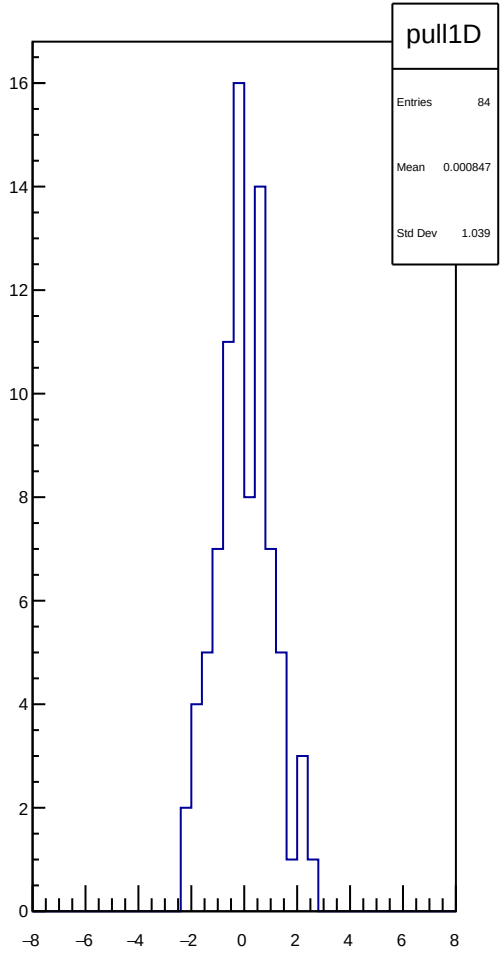

asym_sam_3748_avg_rms vs run
χ² / ndf 8565 / 83
p0 1014 ± 0.7858
1300
1200
1100
1000
900

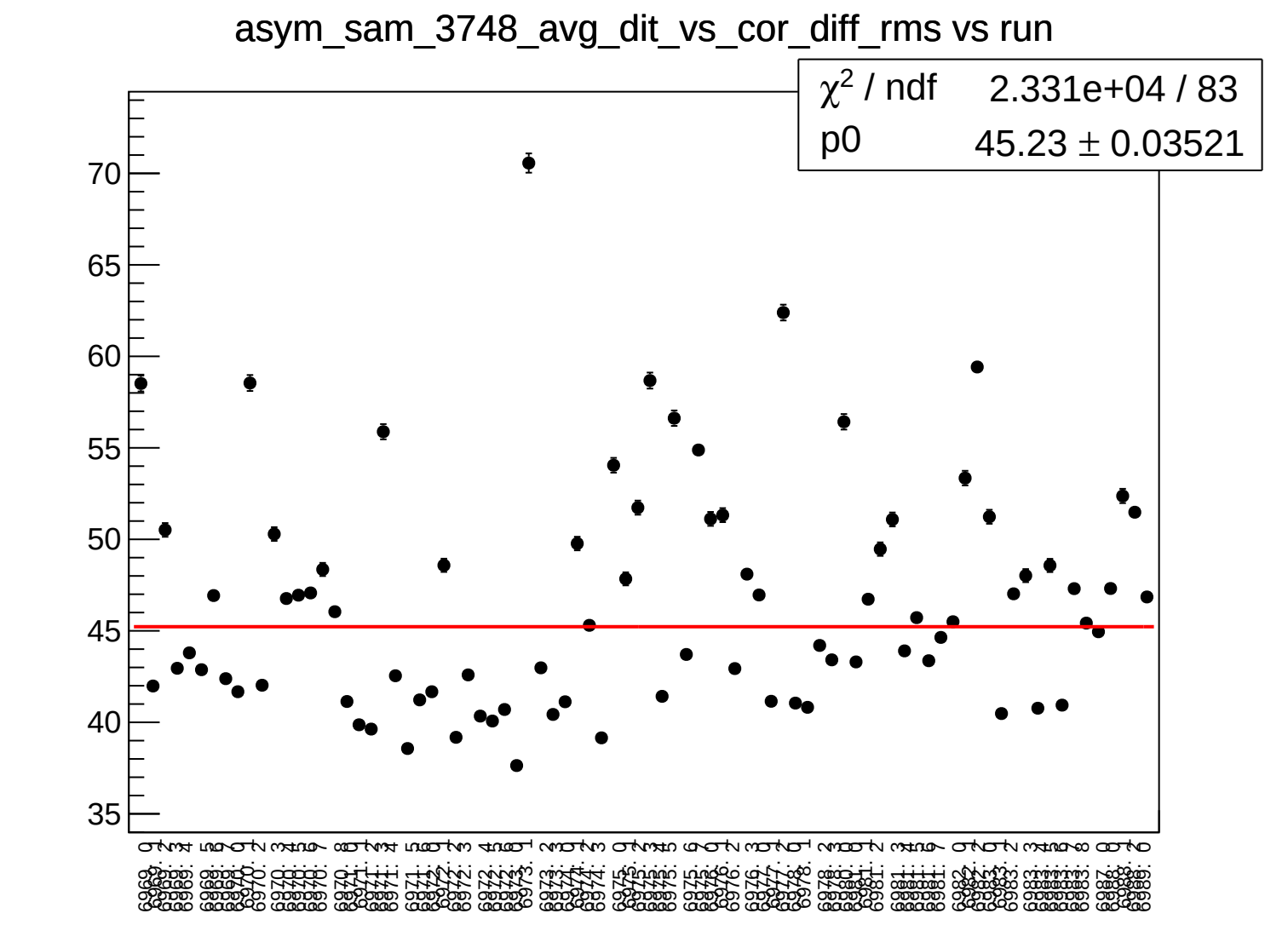

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.23 / 83
p0 −2.279e−14 ± 7.172e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean 42.52
Std Dev 35.26
3
2
1
0
−1
−2

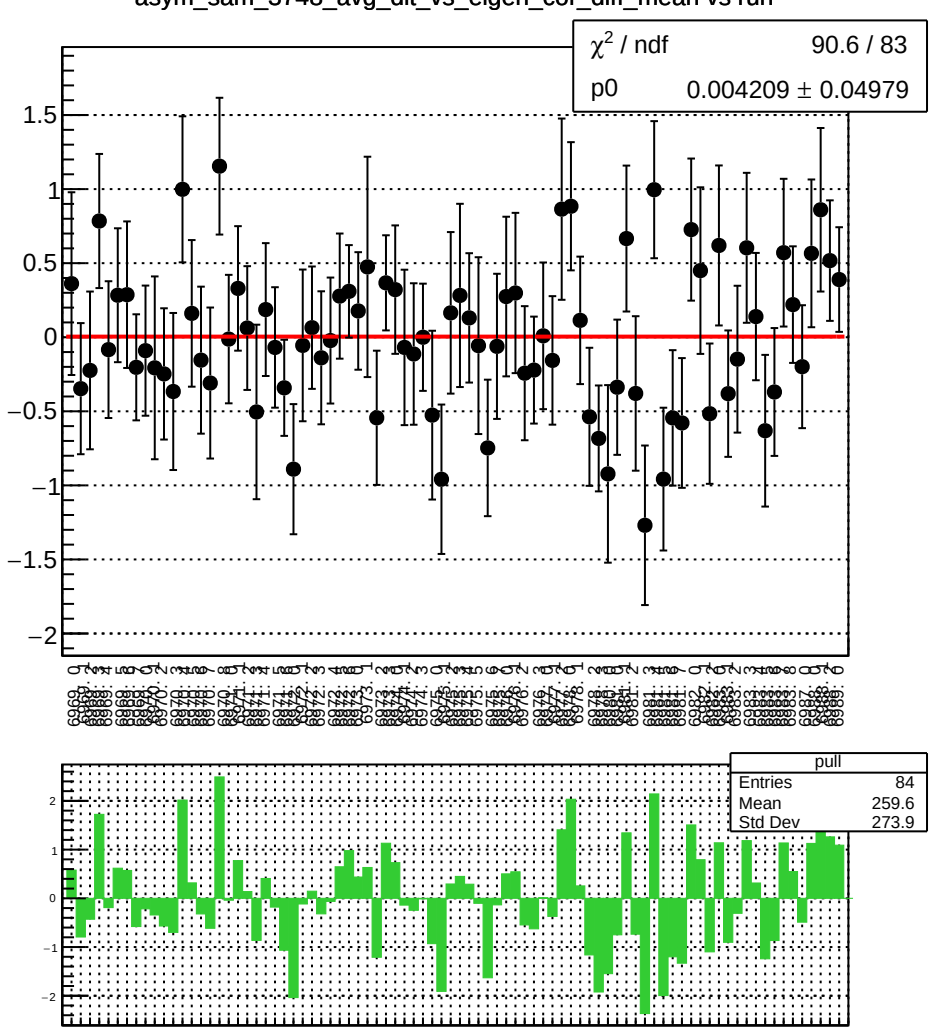

pull1D
Entries 84
Mean 0.04764
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

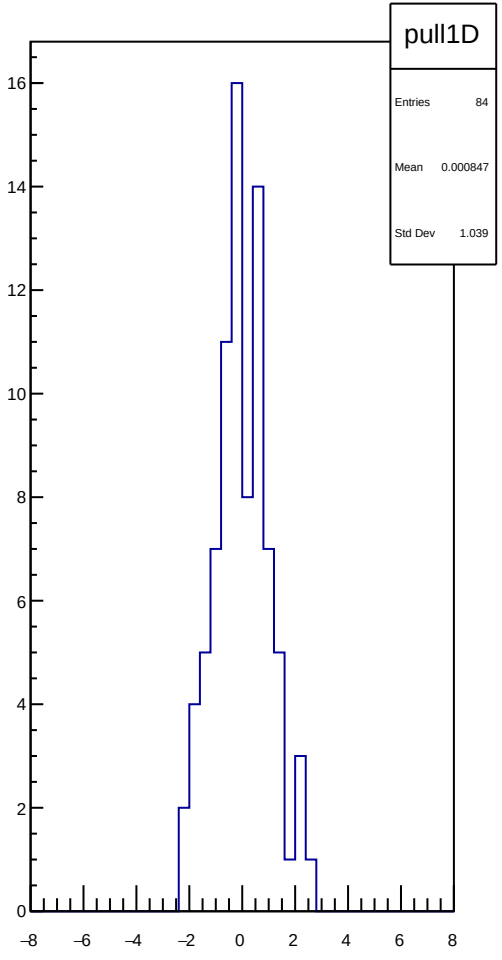

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.023e+06 / 83
p0 4.09e−11 ± 5.071e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

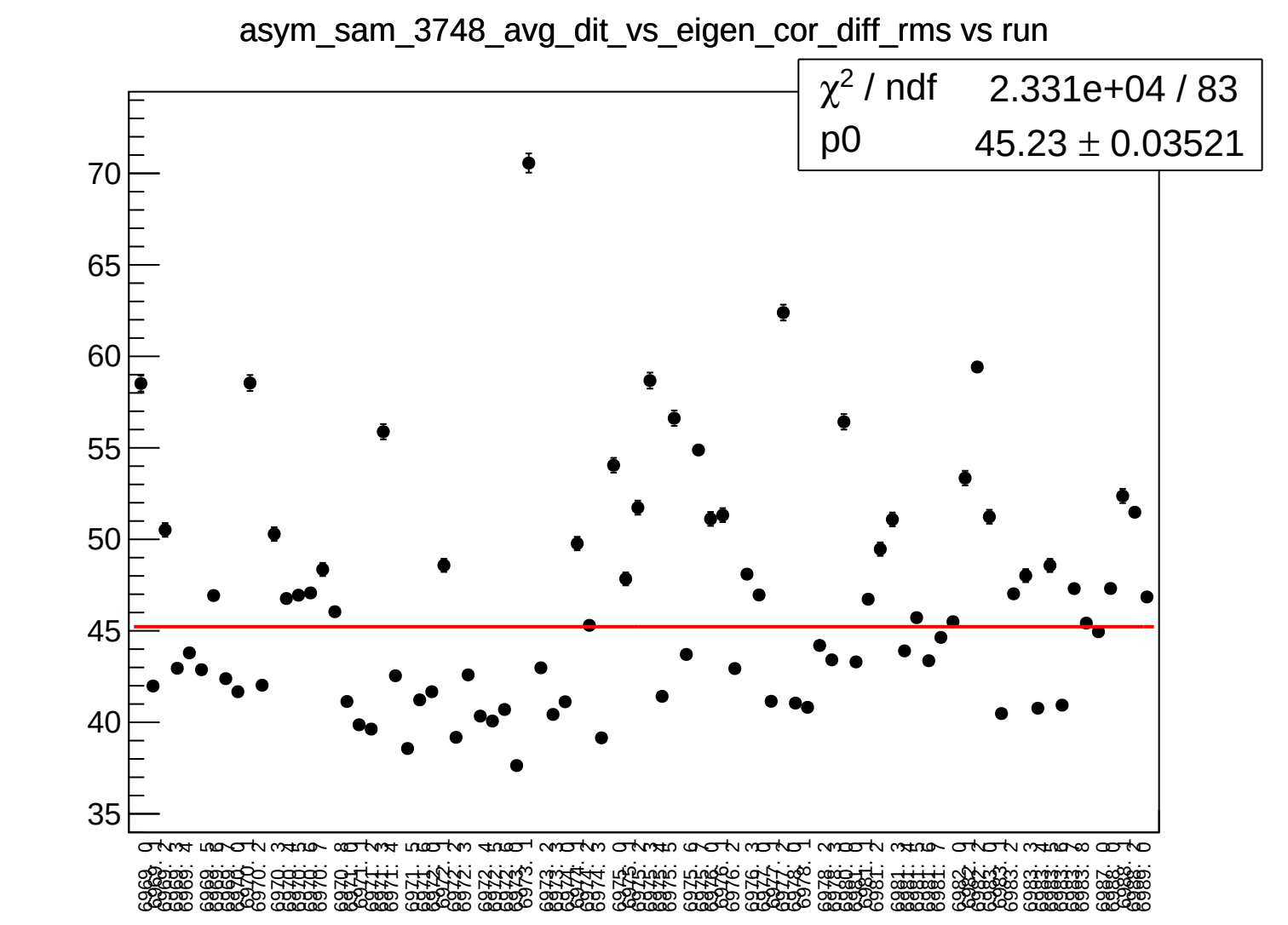

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.6 / 83
p0 0.004209 ± 0.04979
pull
Entries 84
Mean 259.6
Std Dev 273.9

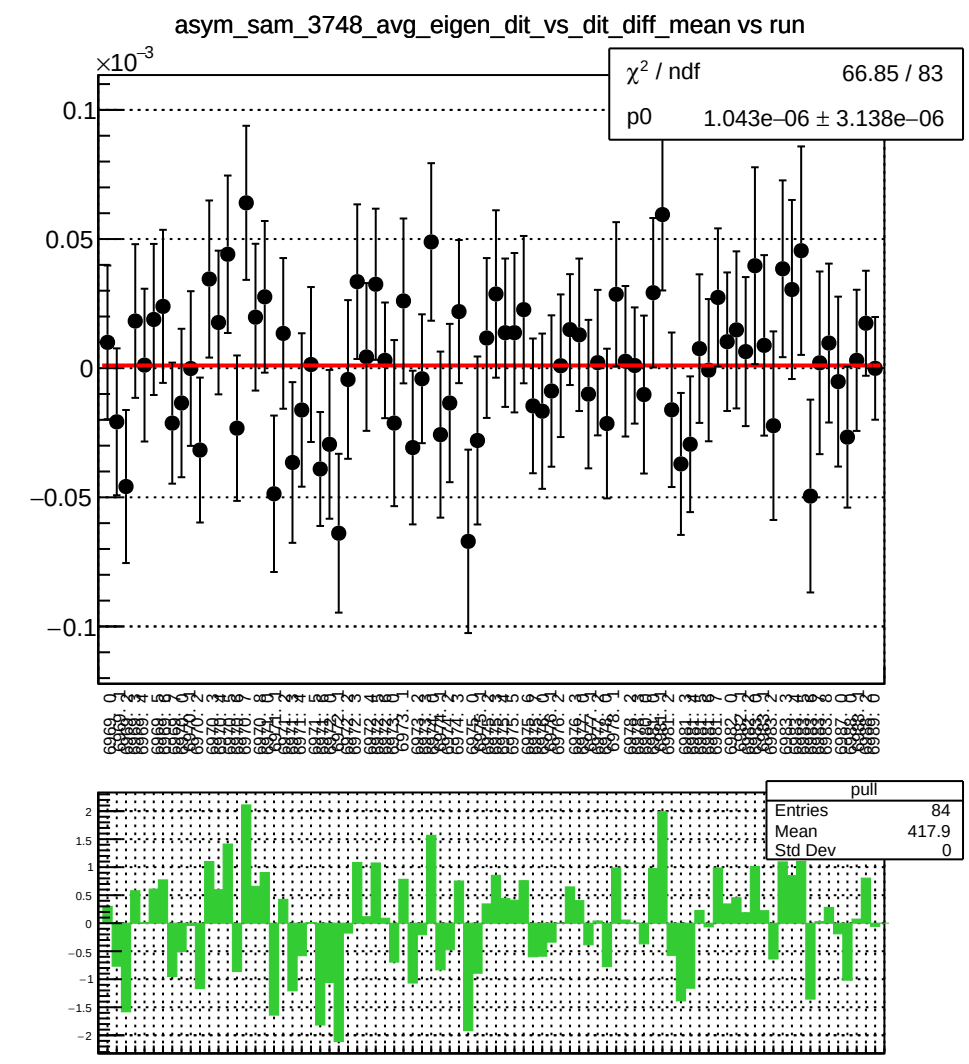

pull1D
Entries 84
Mean 0.000847
Std Dev 1.039

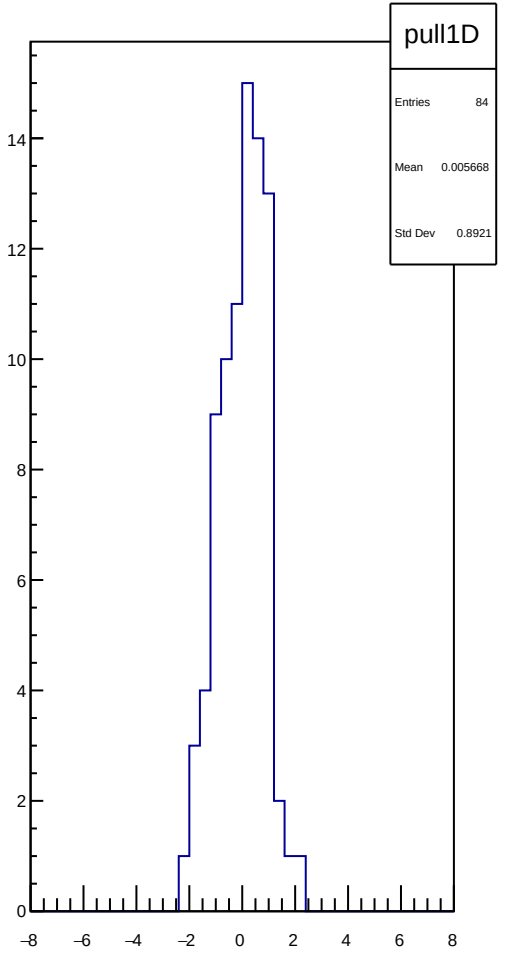

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.331e+04 / 83
p0 45.23 ± 0.03521
70
65
60
55
50
45
40
35

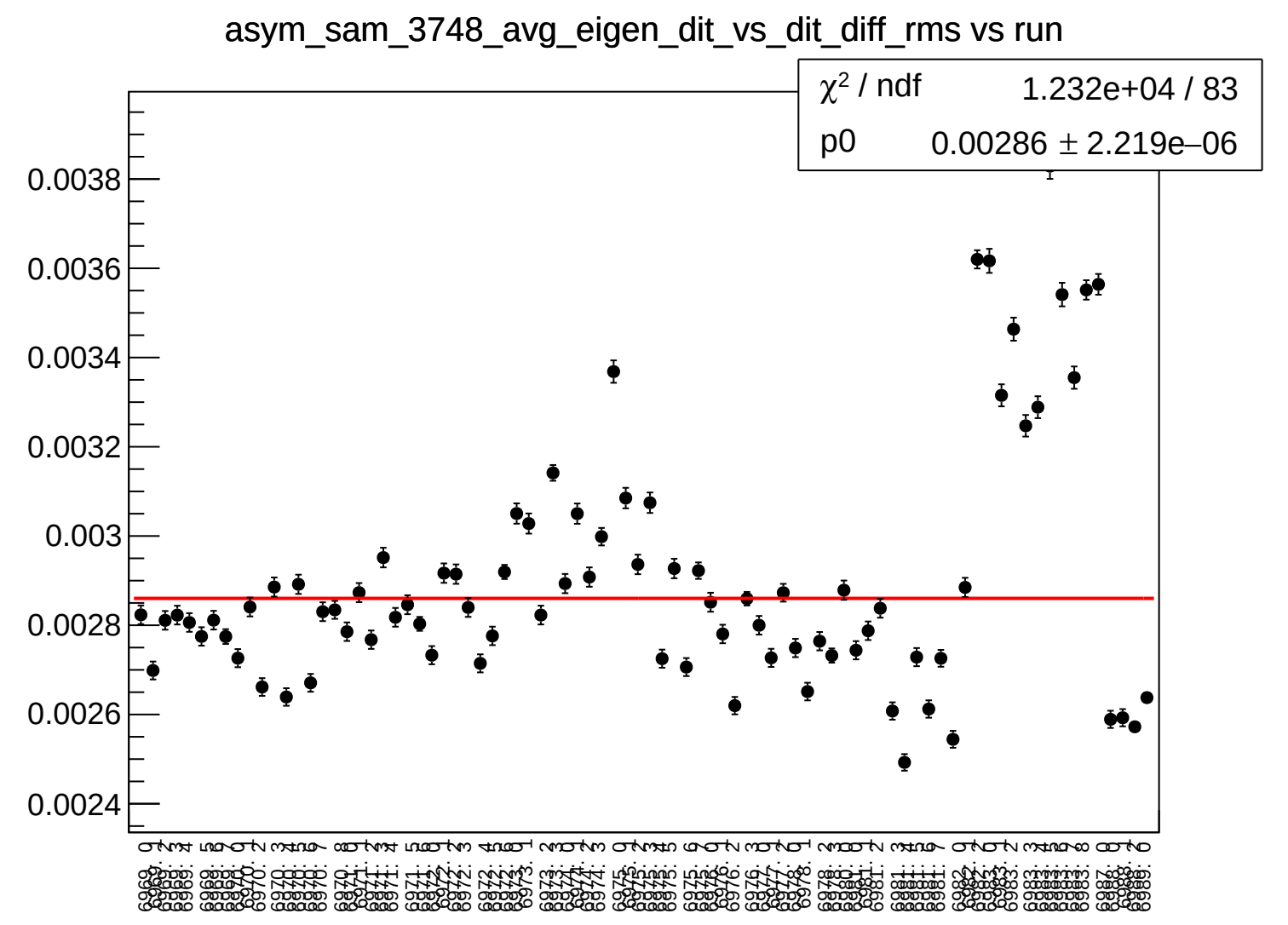

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.6 / 83
p0 0.004209 ± 0.04979
pull
Entries 84
Mean 259.6
Std Dev 273.9

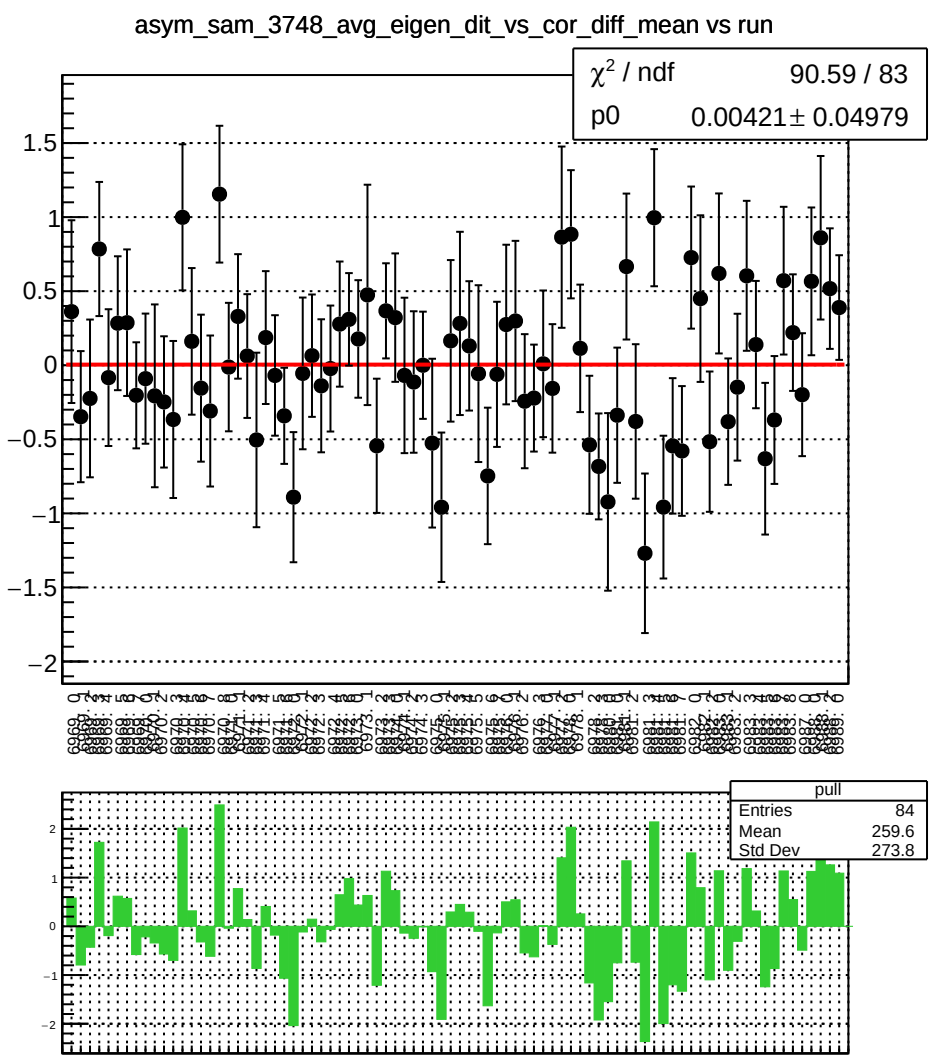

pull1D
Entries 84
Mean 0.000847
Std Dev 1.039

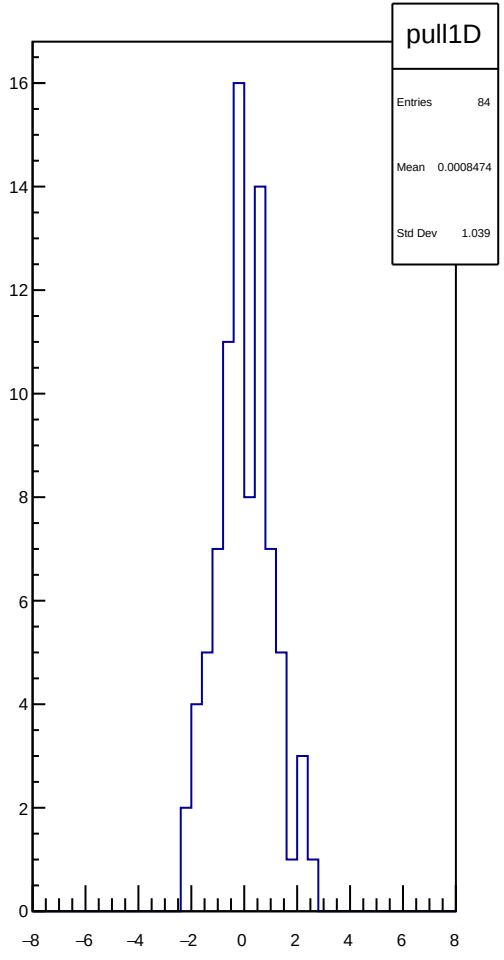

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.331e+04 / 83
p0 45.23 ± 0.03521
70
65
60
55
50
45
40
35

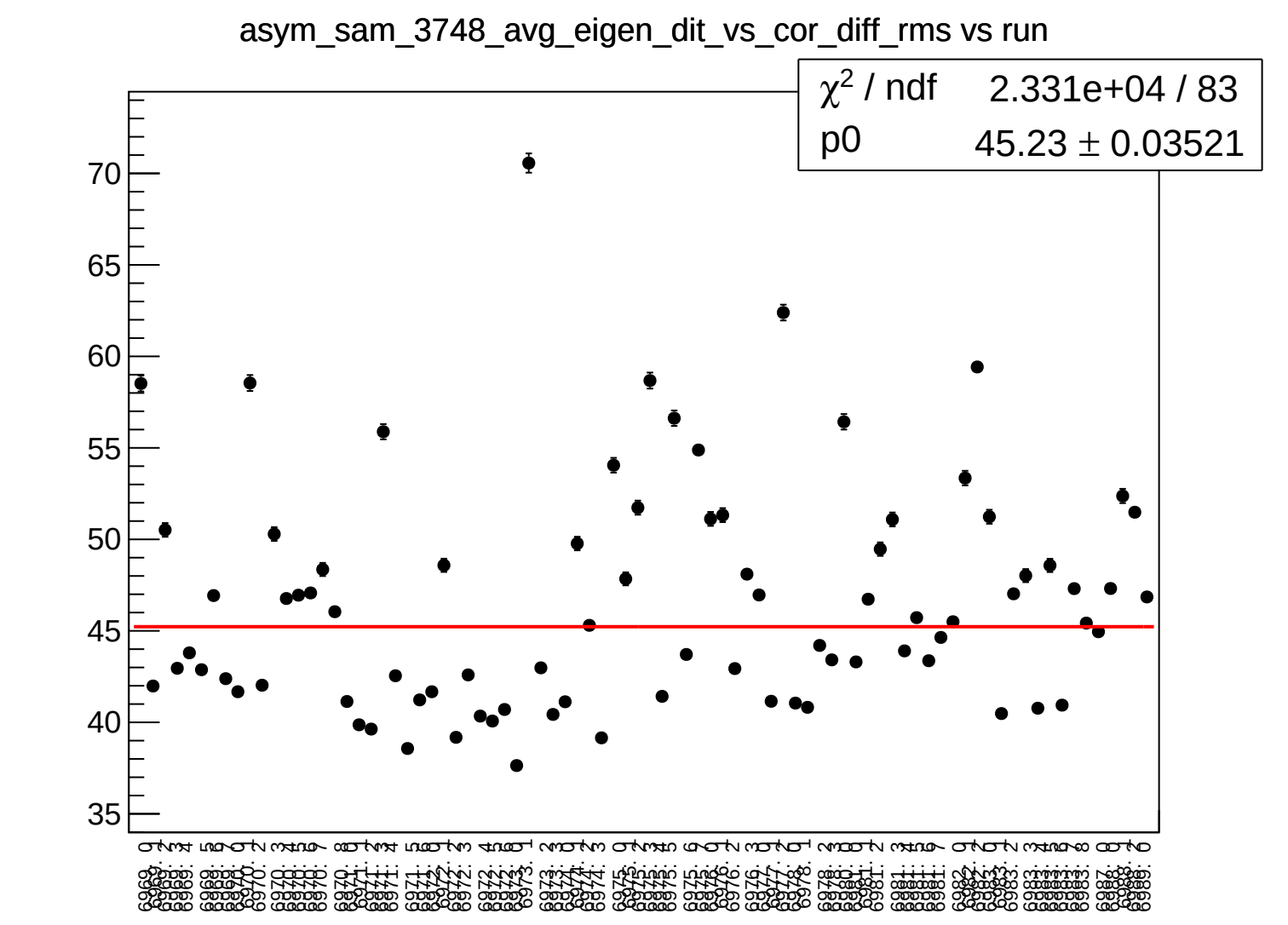

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.85 / 83
p0 1.043e−06 ± 3.138e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 417.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

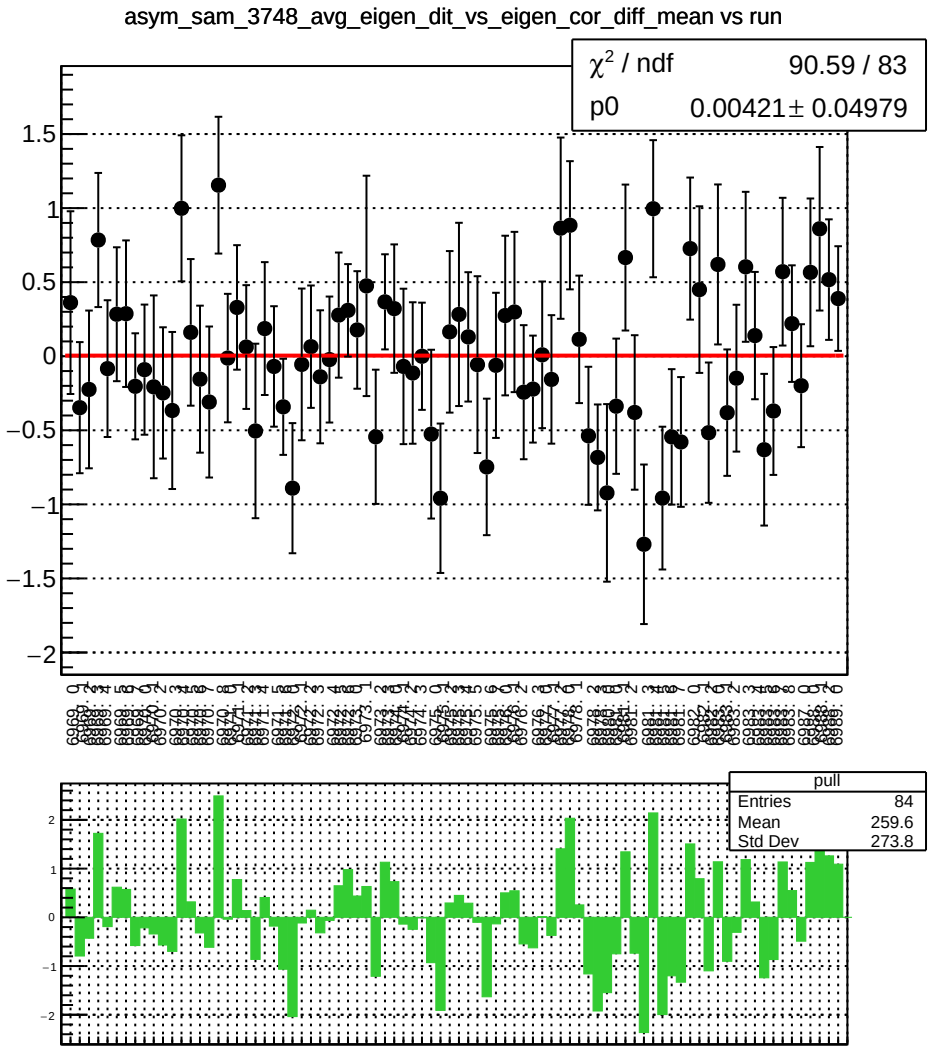

pull1D
Entries 84
Mean 0.005668
Std Dev 0.8921
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

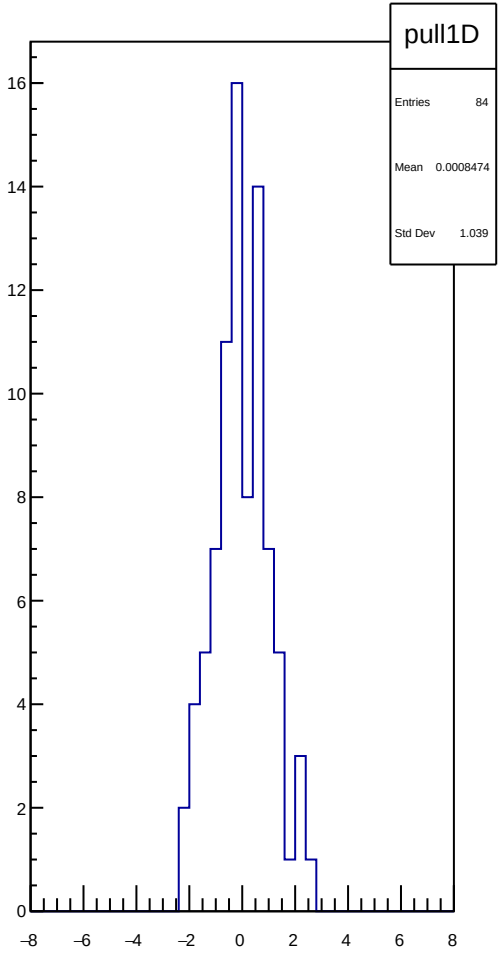

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.232e+04 / 83
p0 0.00286 ± 2.219e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

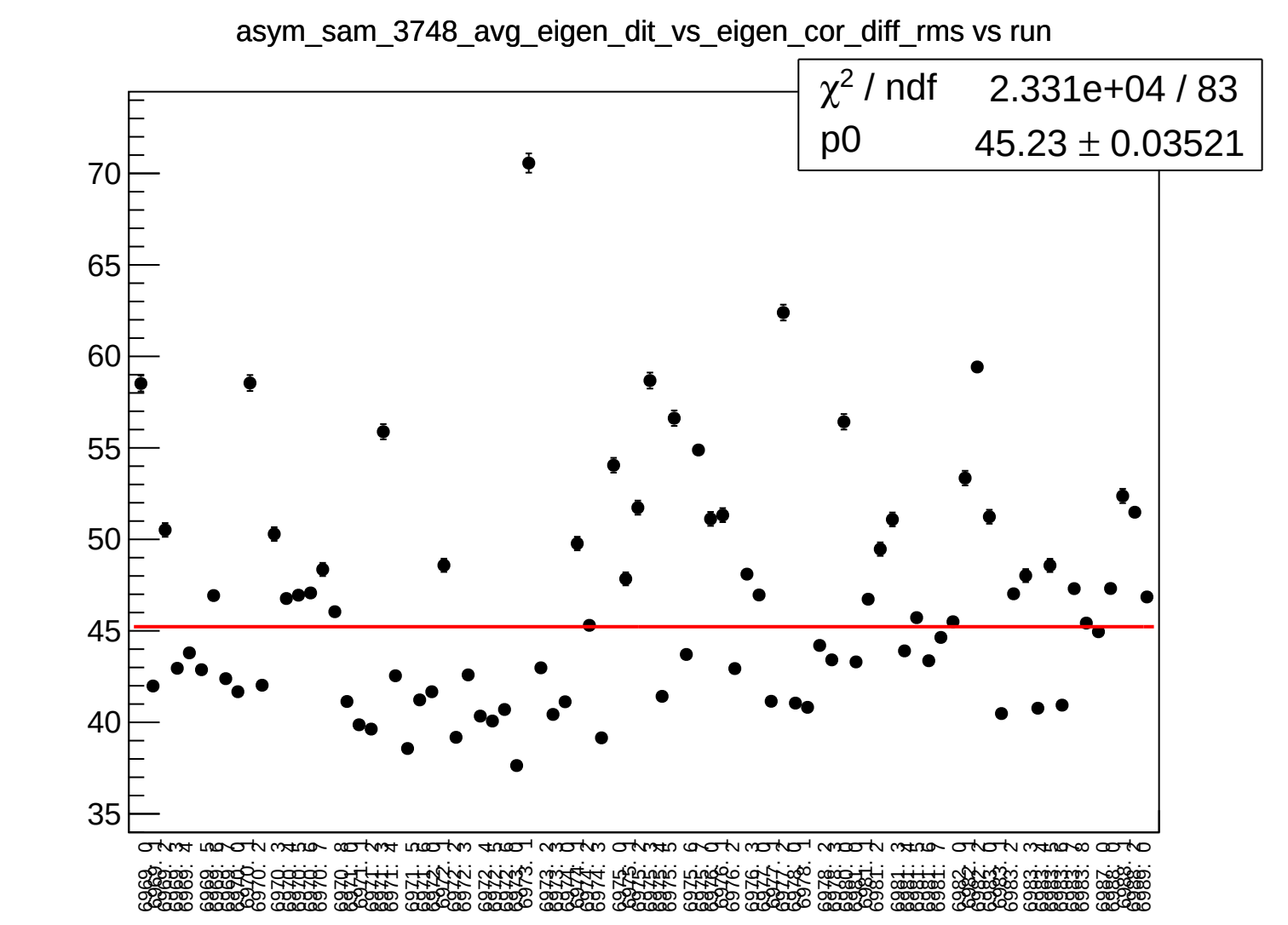

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.59 / 83
p0 0.00421 ± 0.04979
pull
Entries 84
Mean 259.6
Std Dev 273.8

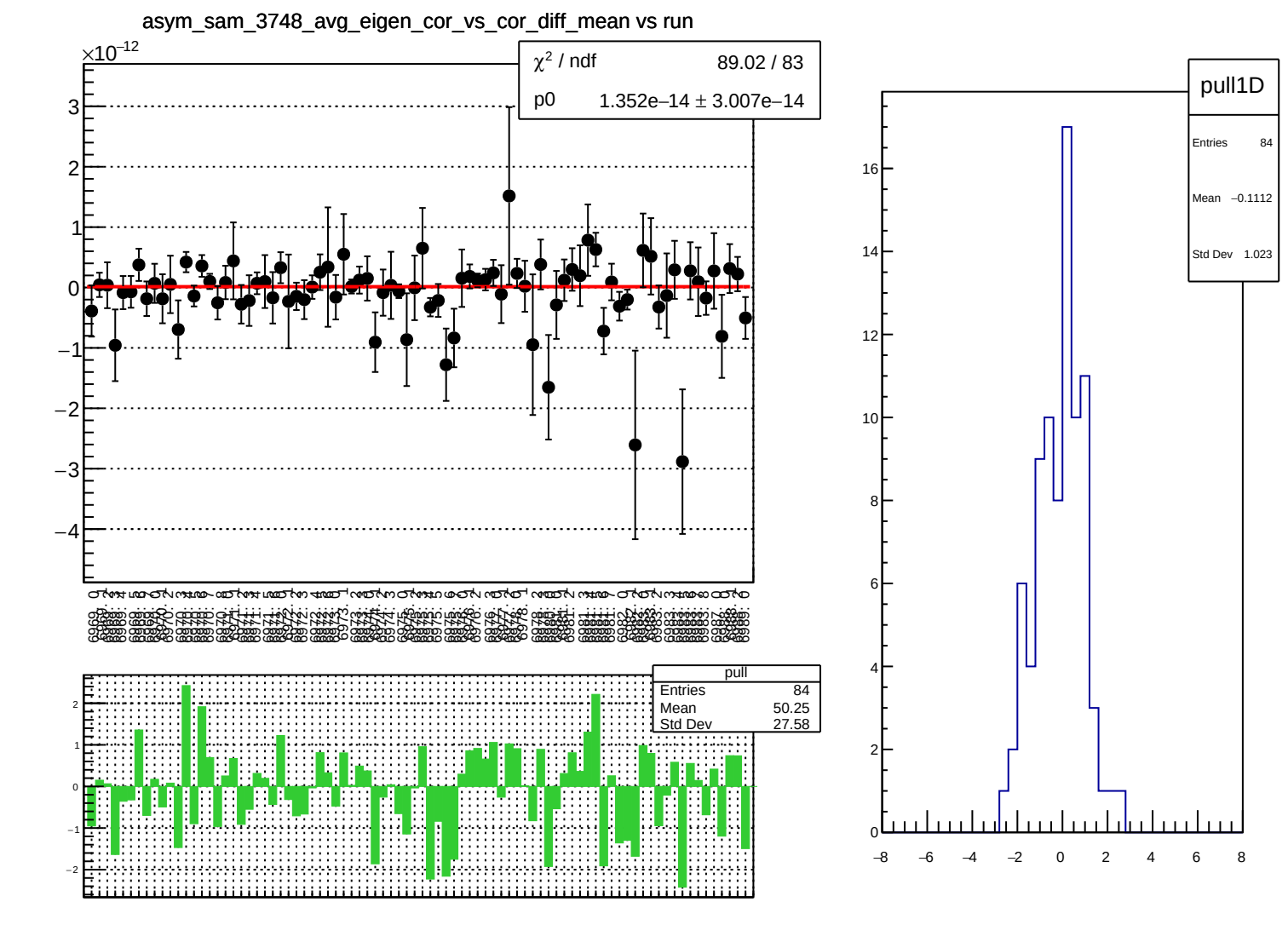

pull1D
Entries 84
Mean 0.0008474
Std Dev 1.039

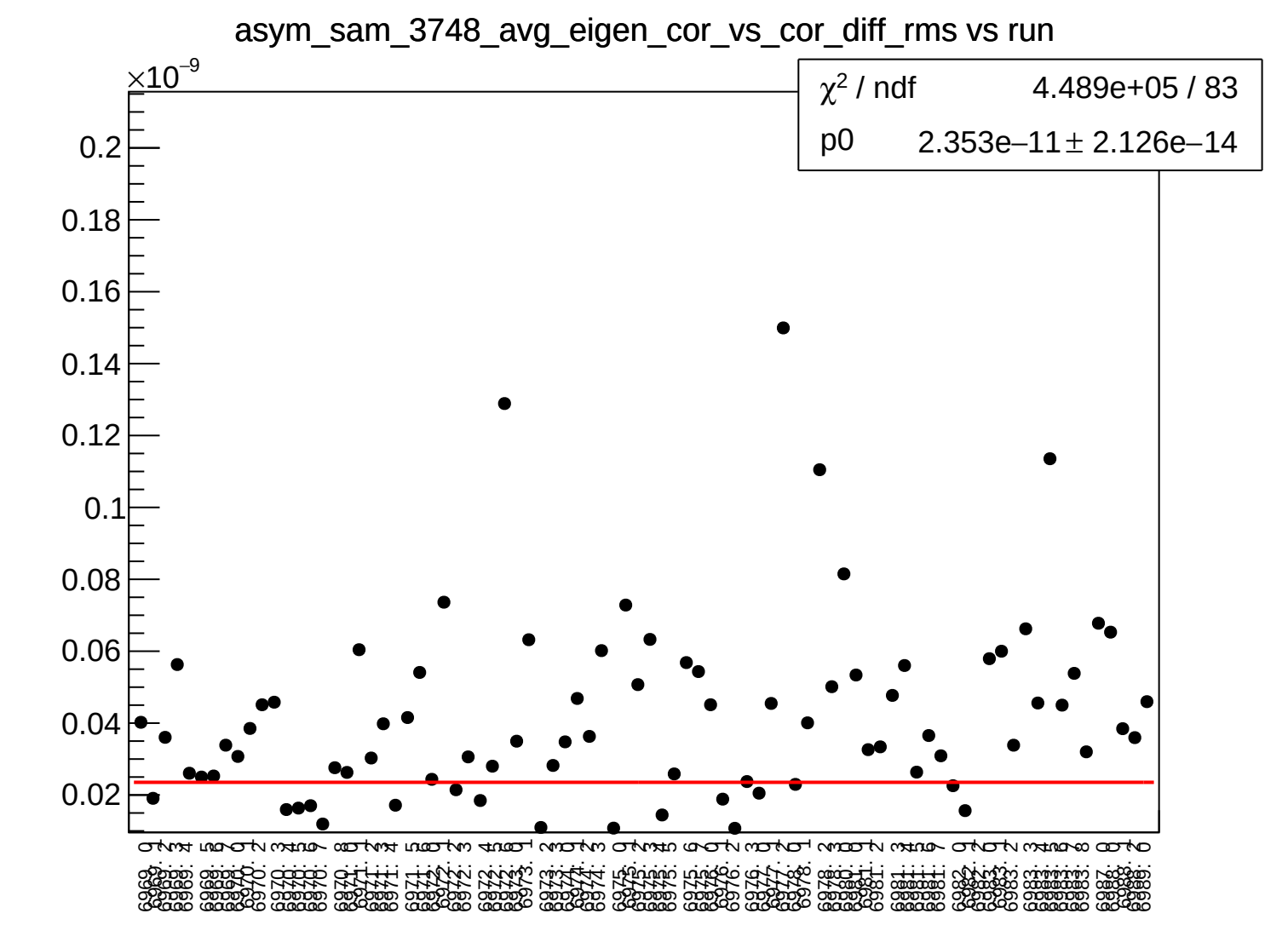

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.331e+04 / 83
p0 45.23 ± 0.03521
70
65
60
55
50
45
40
35

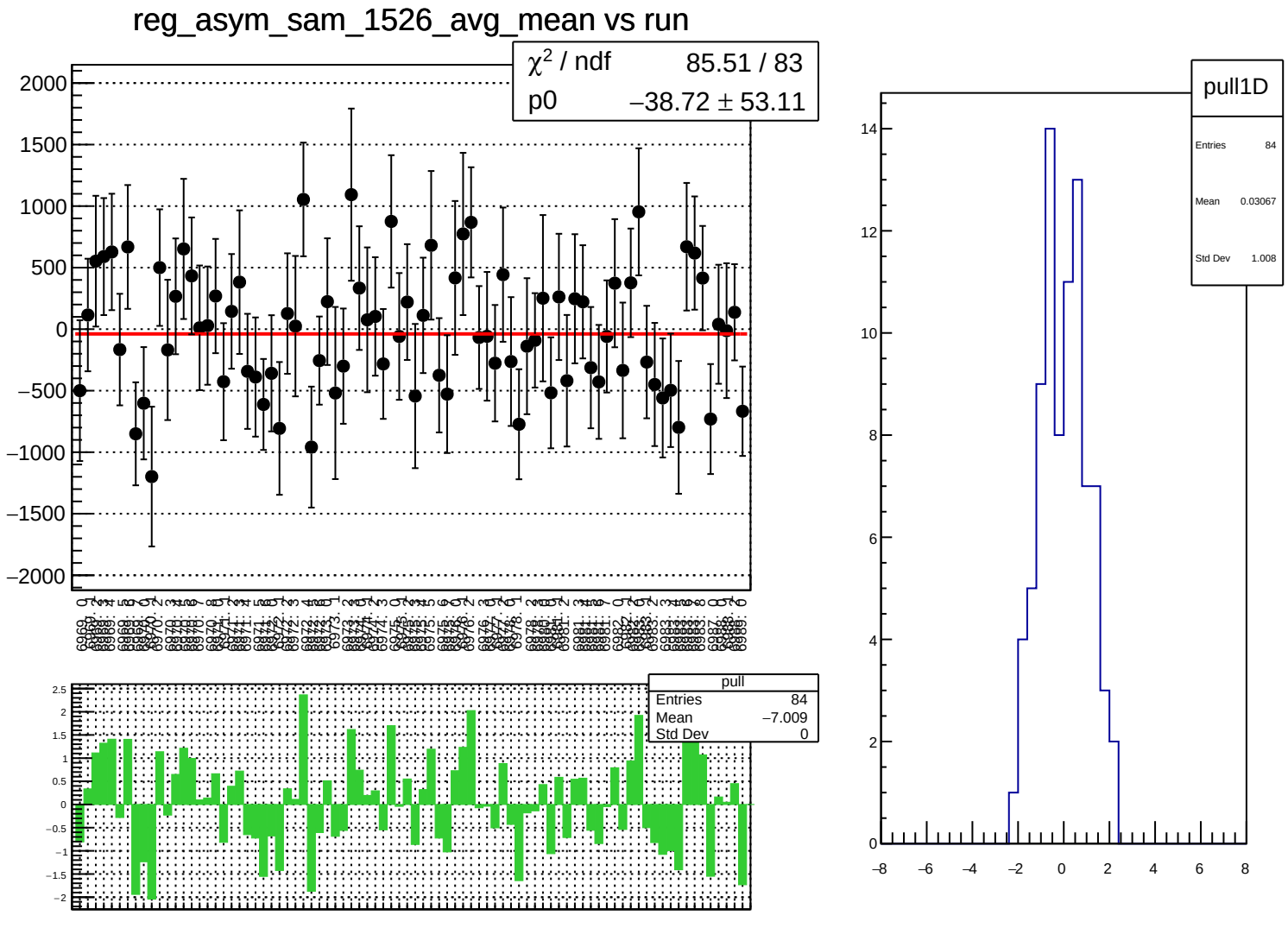

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.59 / 83
p0 0.00421 ± 0.04979
pull
Entries 84
Mean 259.6
Std Dev 273.8

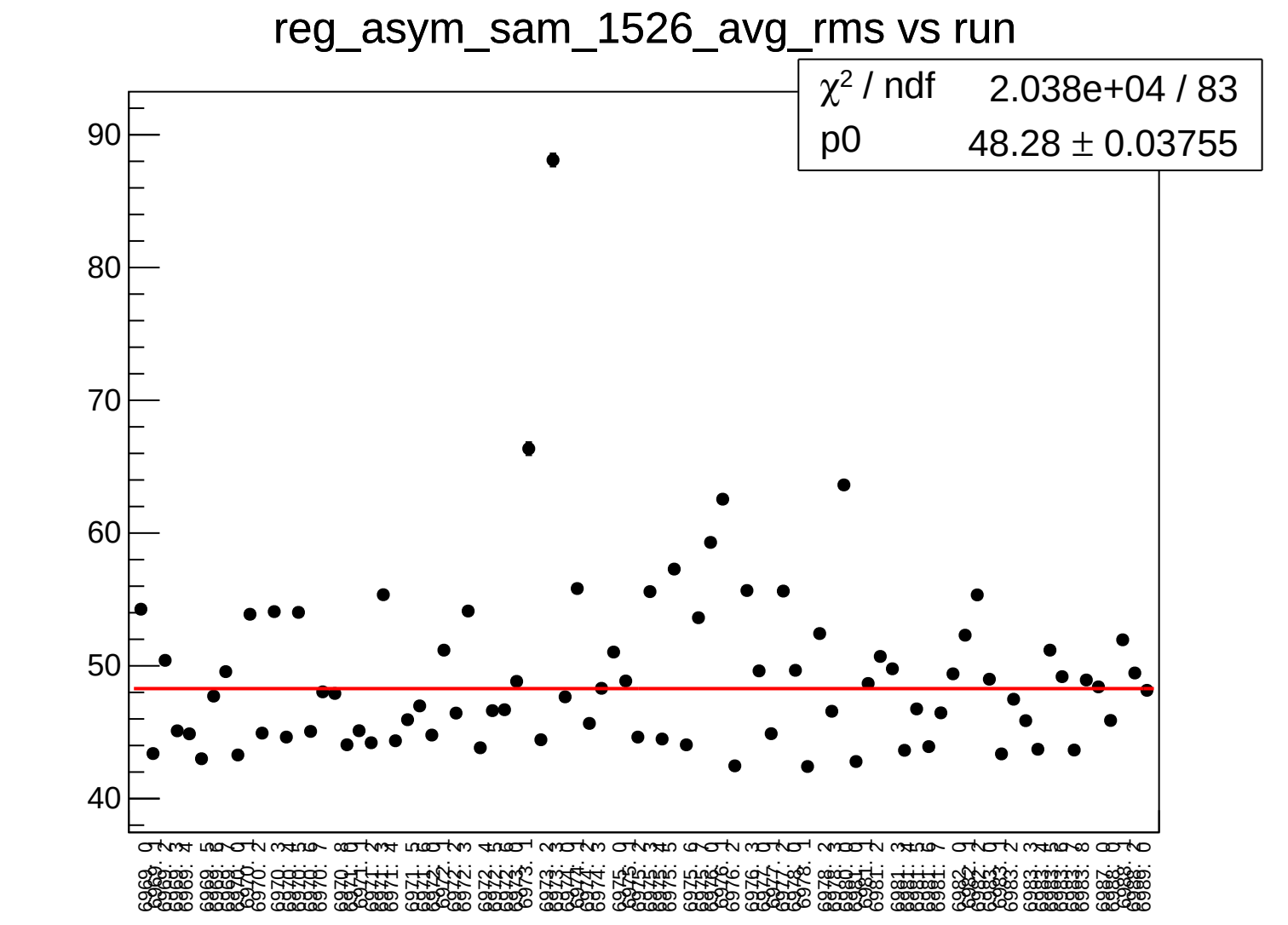

pull1D
Entries 84
Mean 0.0008474
Std Dev 1.039

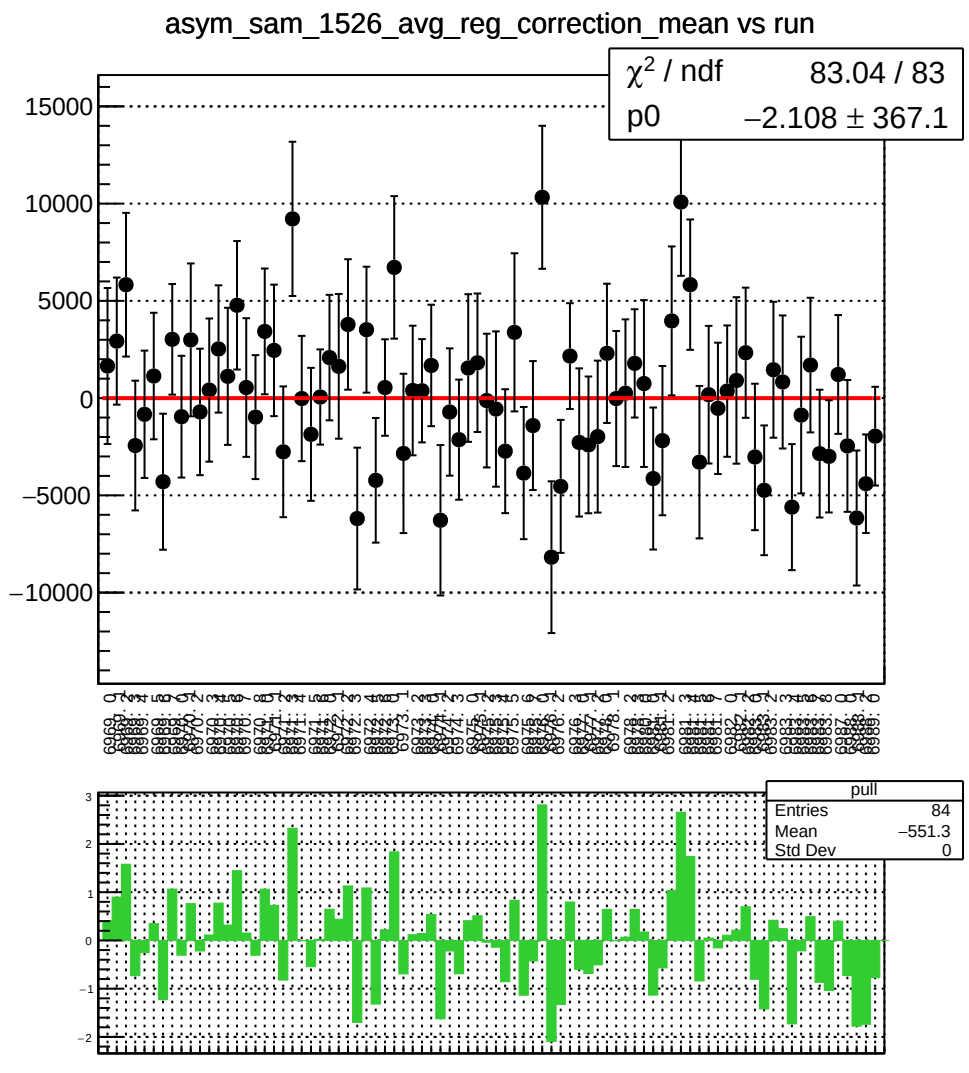

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.331e+04 / 83
p0 45.23 ± 0.03521
70
65
60
55
50
45
40
35

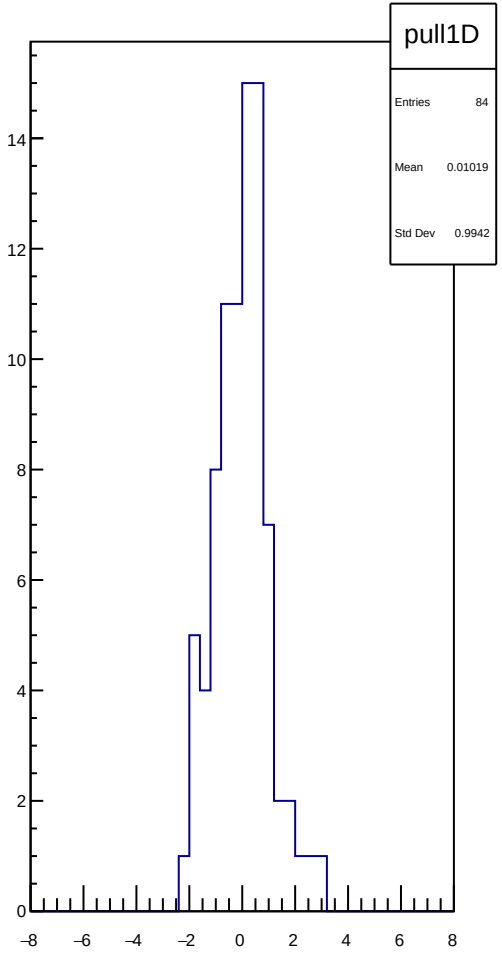

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.02 / 83
p0 1.352e−14 ± 3.007e−14
pull
Entries 84
Mean 50.25
Std Dev 27.58
pull1D
Entries 84
Mean −0.1112
Std Dev 1.023

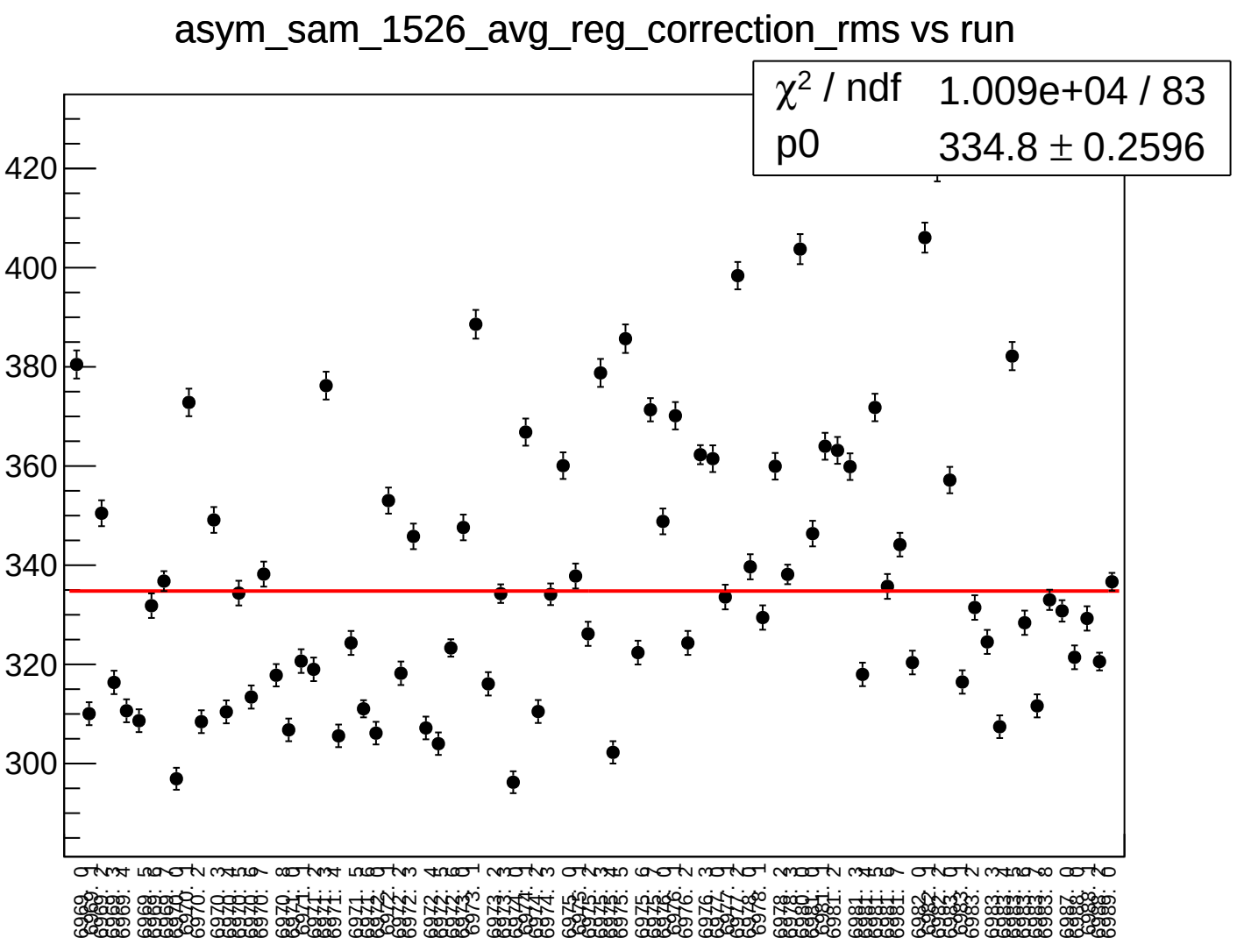

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.489e+05 / 83
p0 2.353e−11 ± 2.126e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

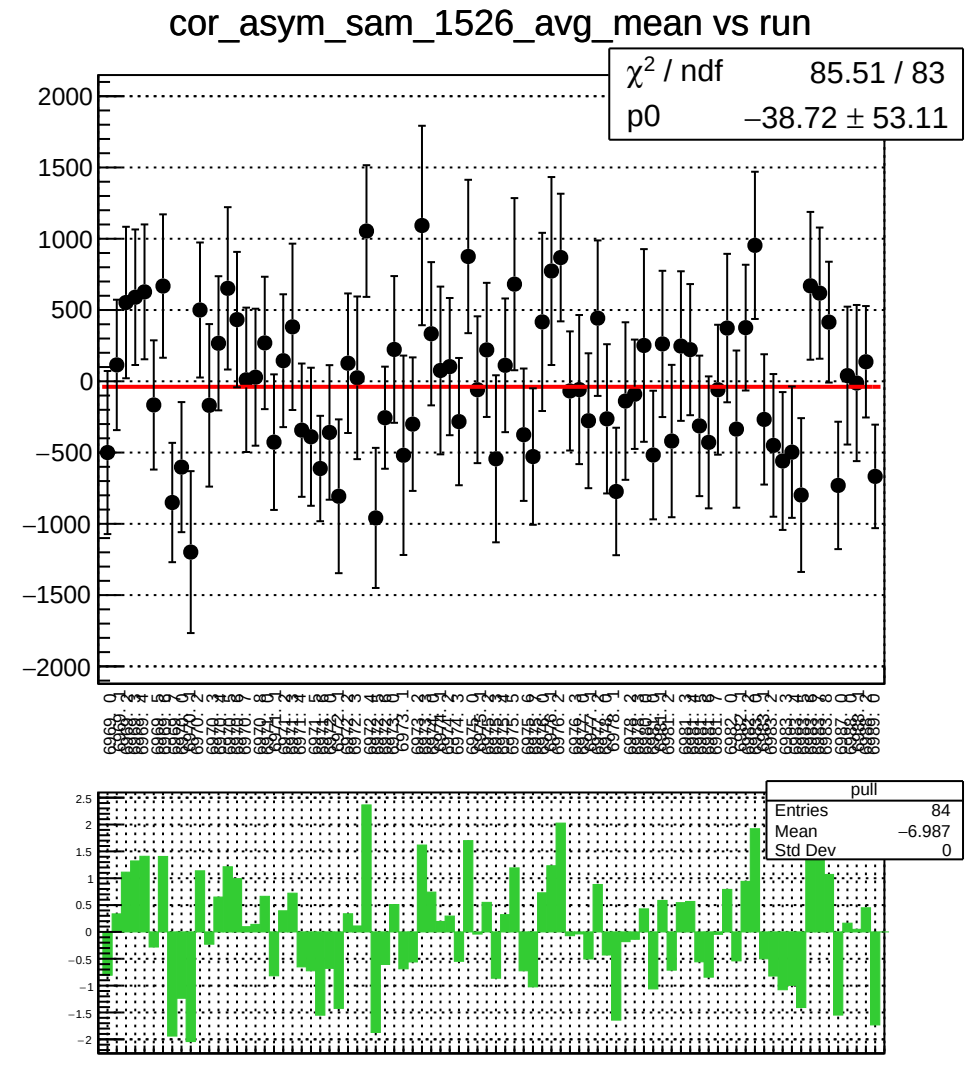

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 85.51 / 83
p0 −38.72 ± 53.11
pull
Entries 84
Mean −7.009
Std Dev 0
pull1D
Entries 84
Mean 0.03067
Std Dev 1.008

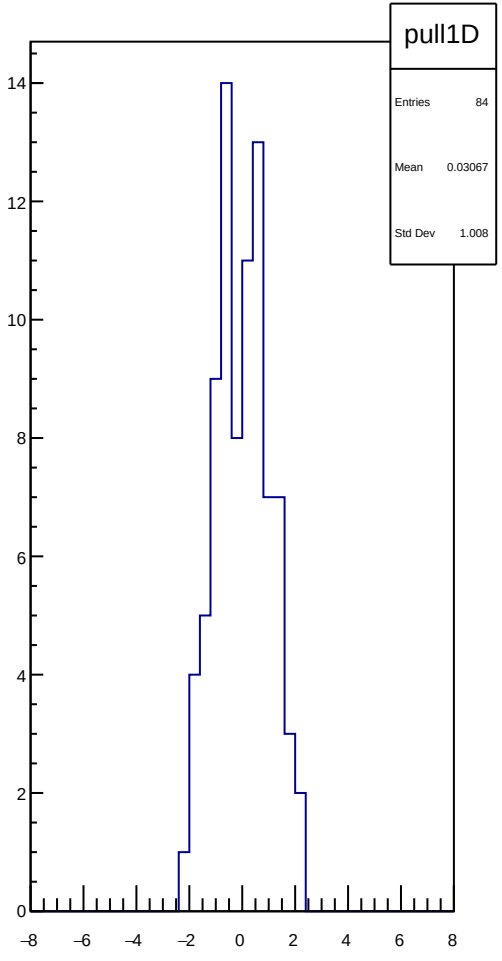

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.038e+04 / 83
p0 48.28 ± 0.03755
90
80
70
60
50
40

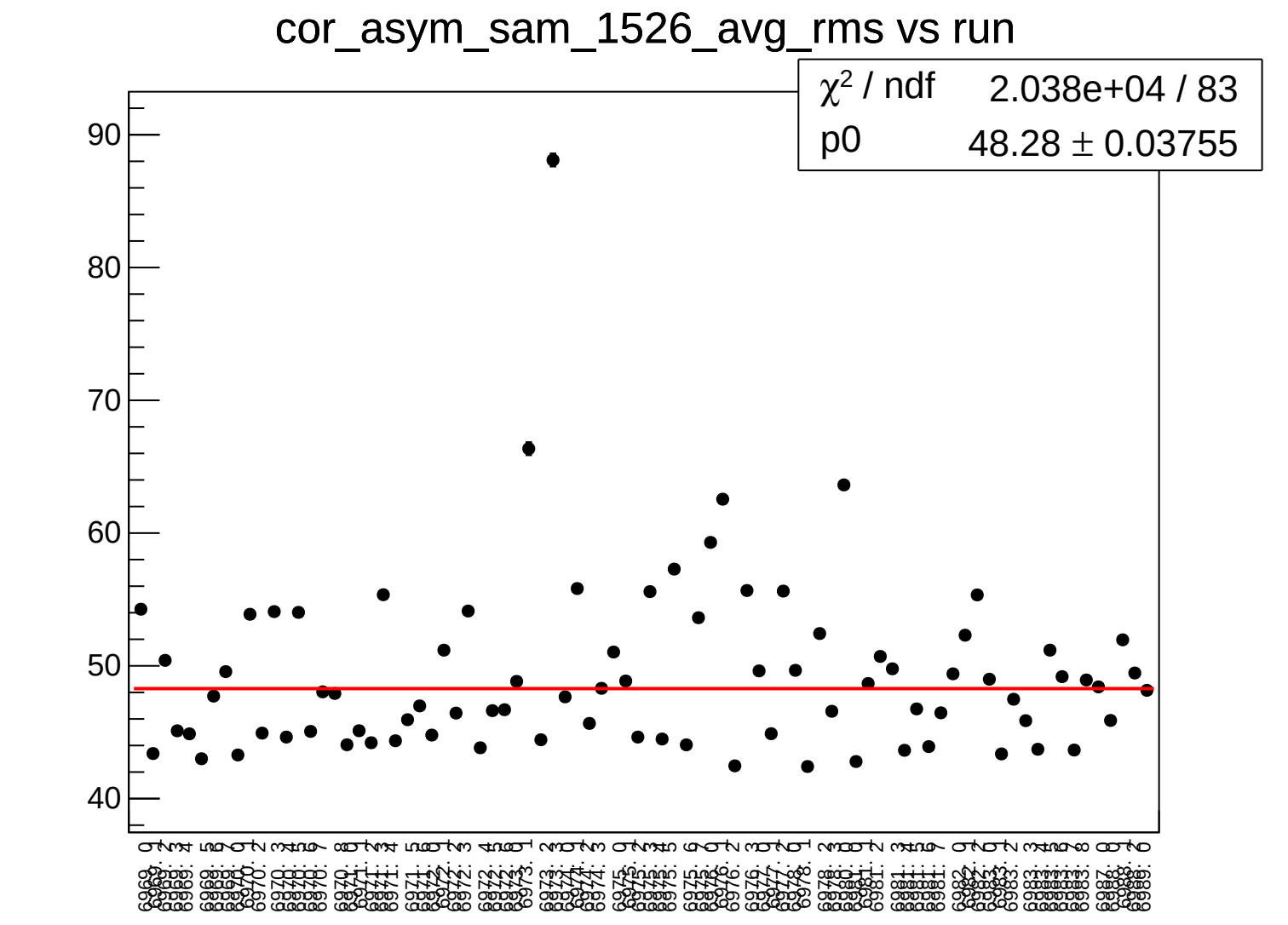

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 83.04 / 83
p0 −2.108 ± 367.1
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −551.3
Std Dev 0
3
2
1
0
−1
−2

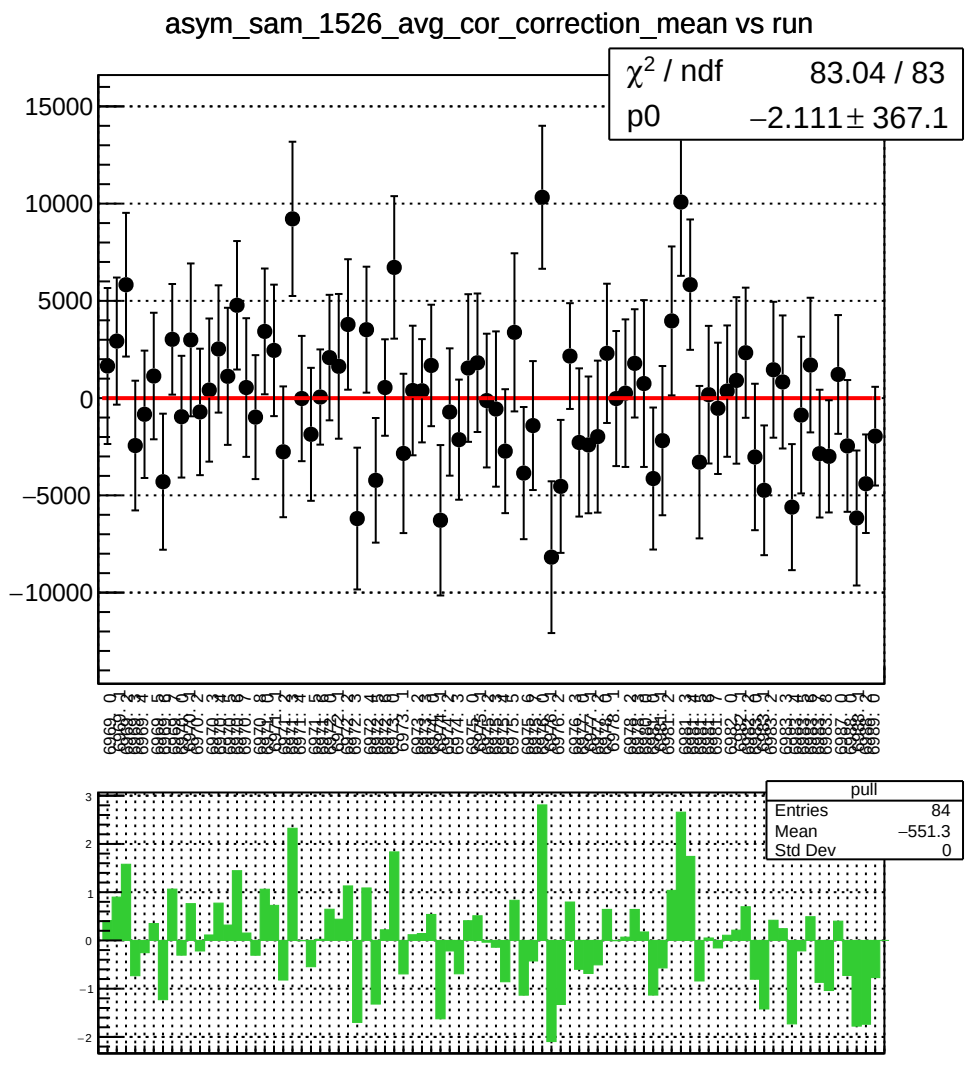

pull1D
Entries 84
Mean 0.01019
Std Dev 0.9942
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

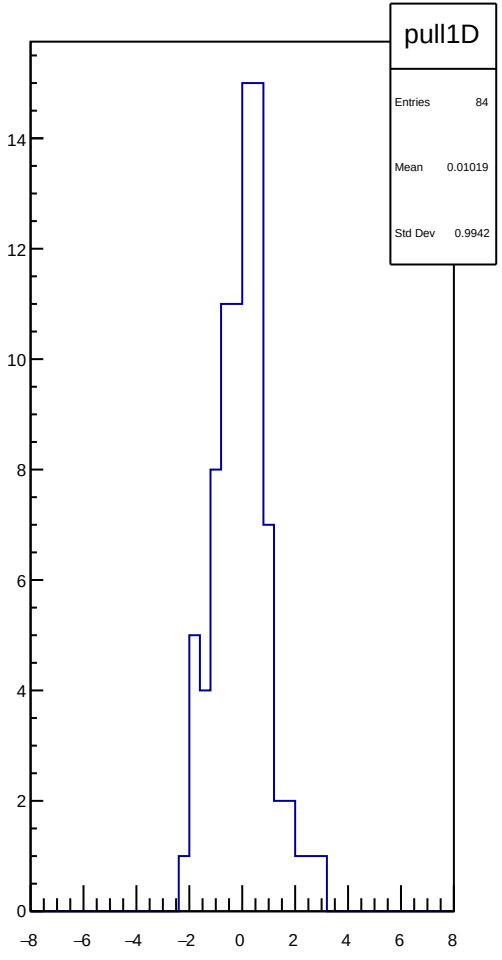

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.009e+04 / 83
p0 334.8 ± 0.2596
420
400
380
360
340
320
300

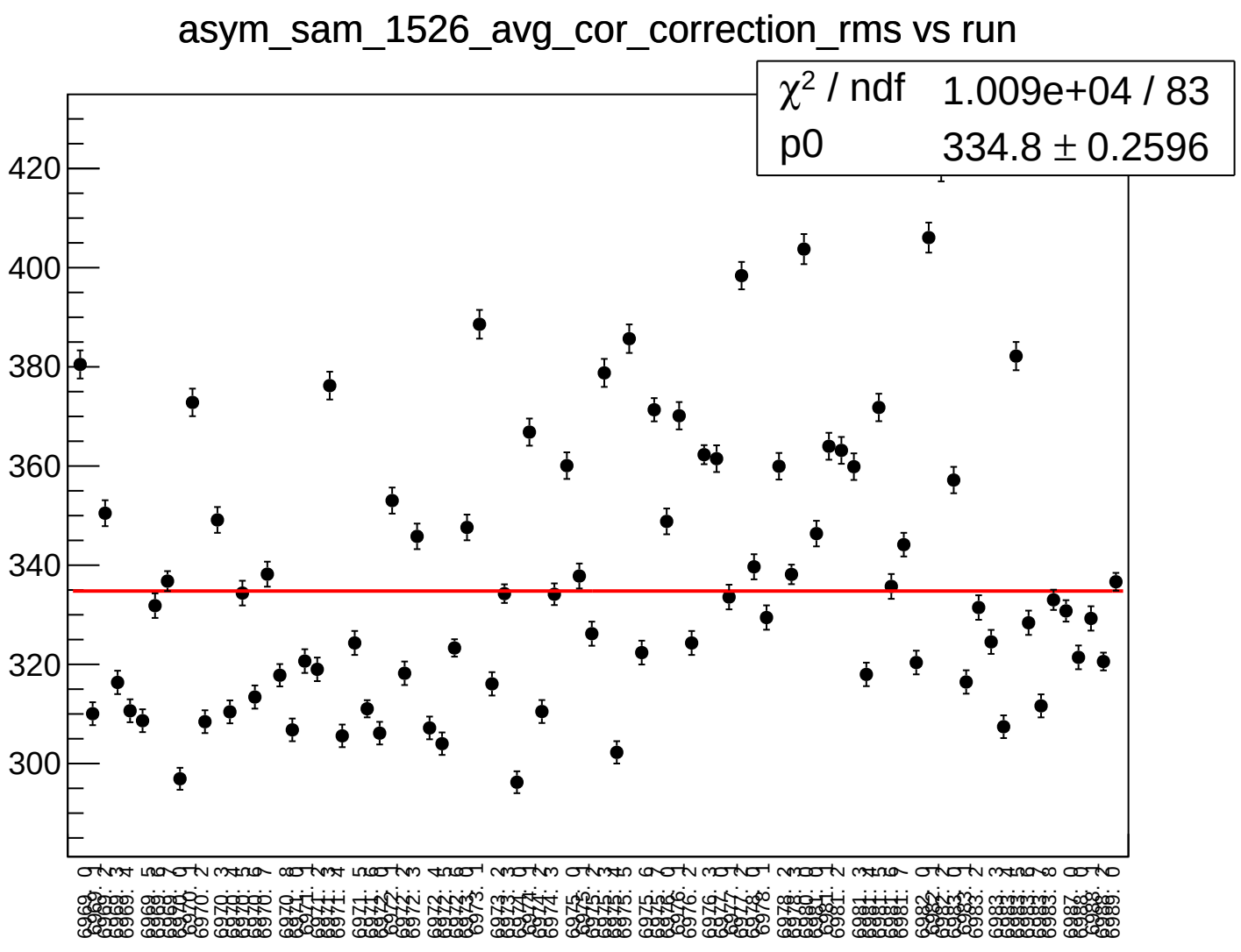

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 85.51 / 83
p0 −38.72 ± 53.11
pull
Entries 84
Mean −6.987
Std Dev 0

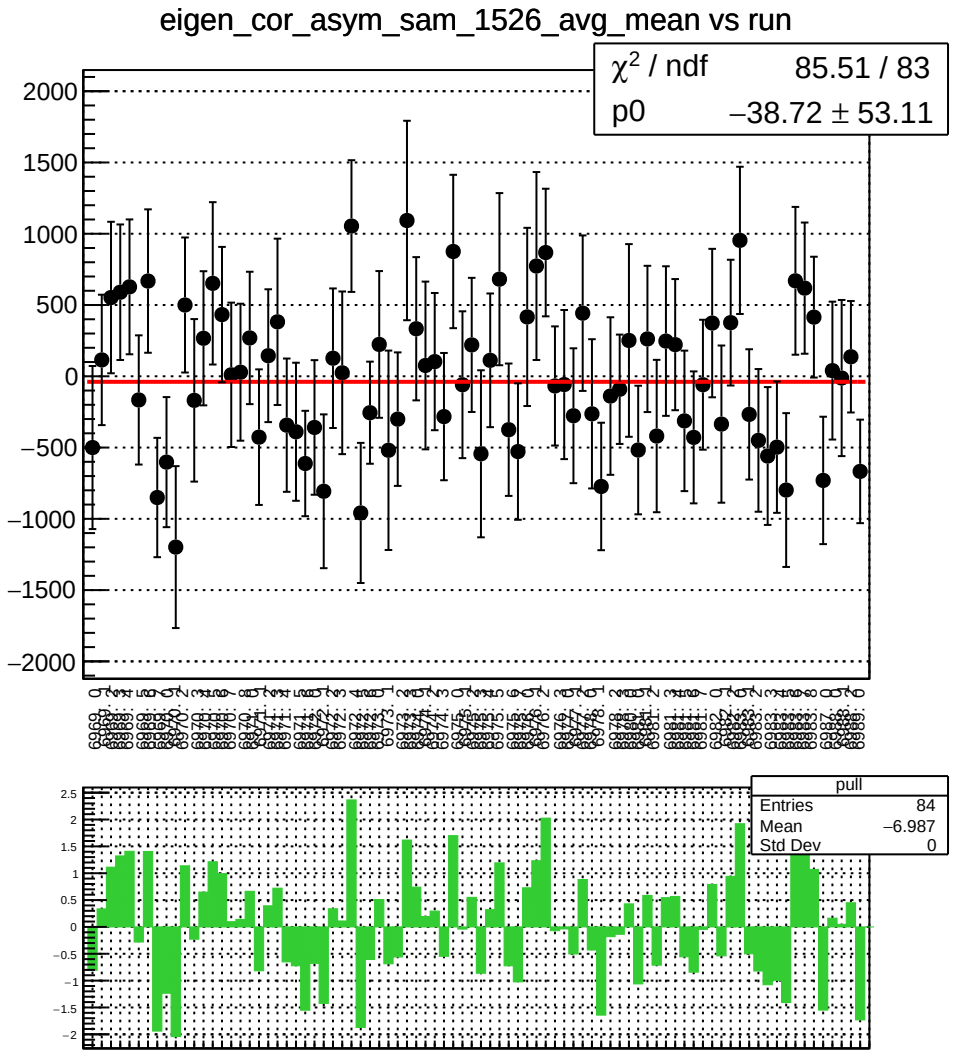

pull1D
Entries 84
Mean 0.03067
Std Dev 1.008

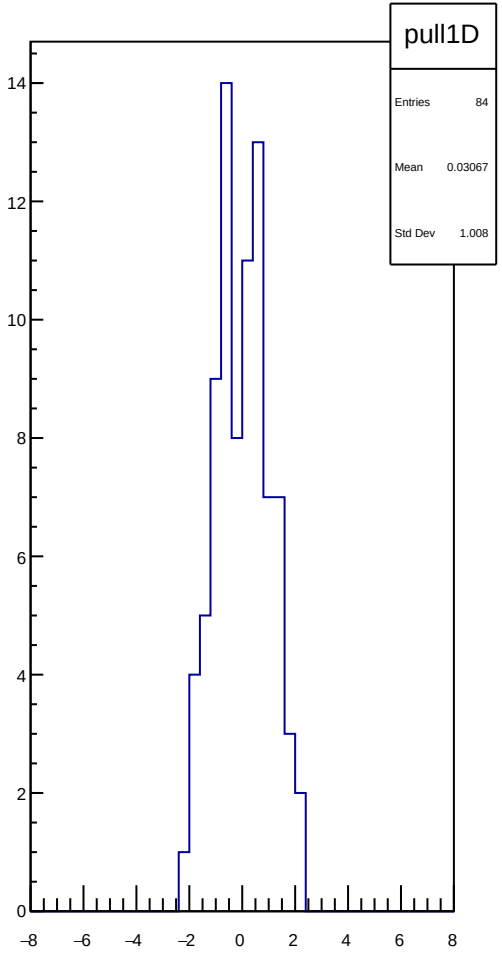

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.038e+04 / 83
p0 48.28 ± 0.03755
90
80
70
60
50
40

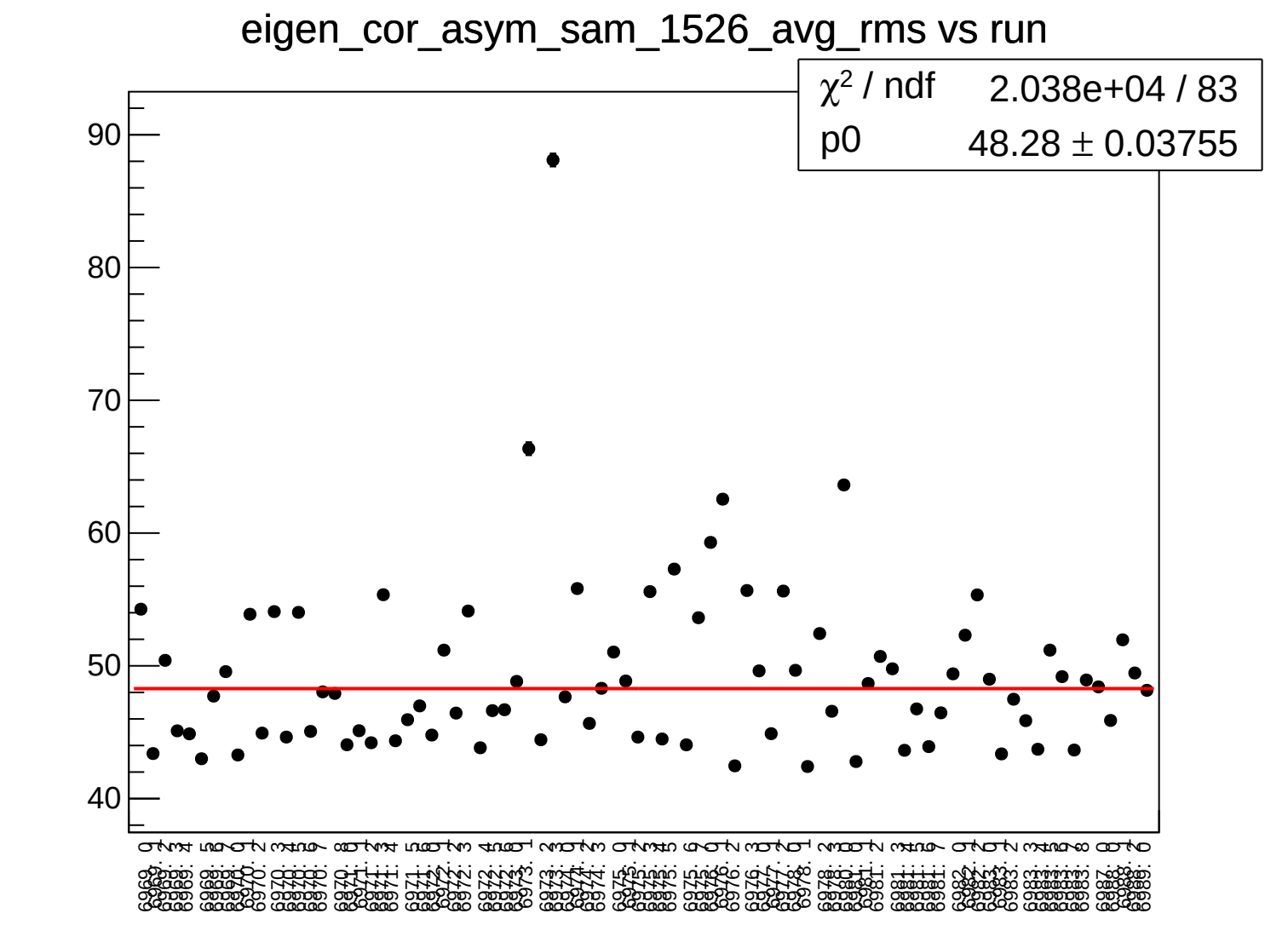

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 83.04 / 83
p0 −2.111 ± 367.1
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −551.3
Std Dev 0
3
2
1
0
−1
−2

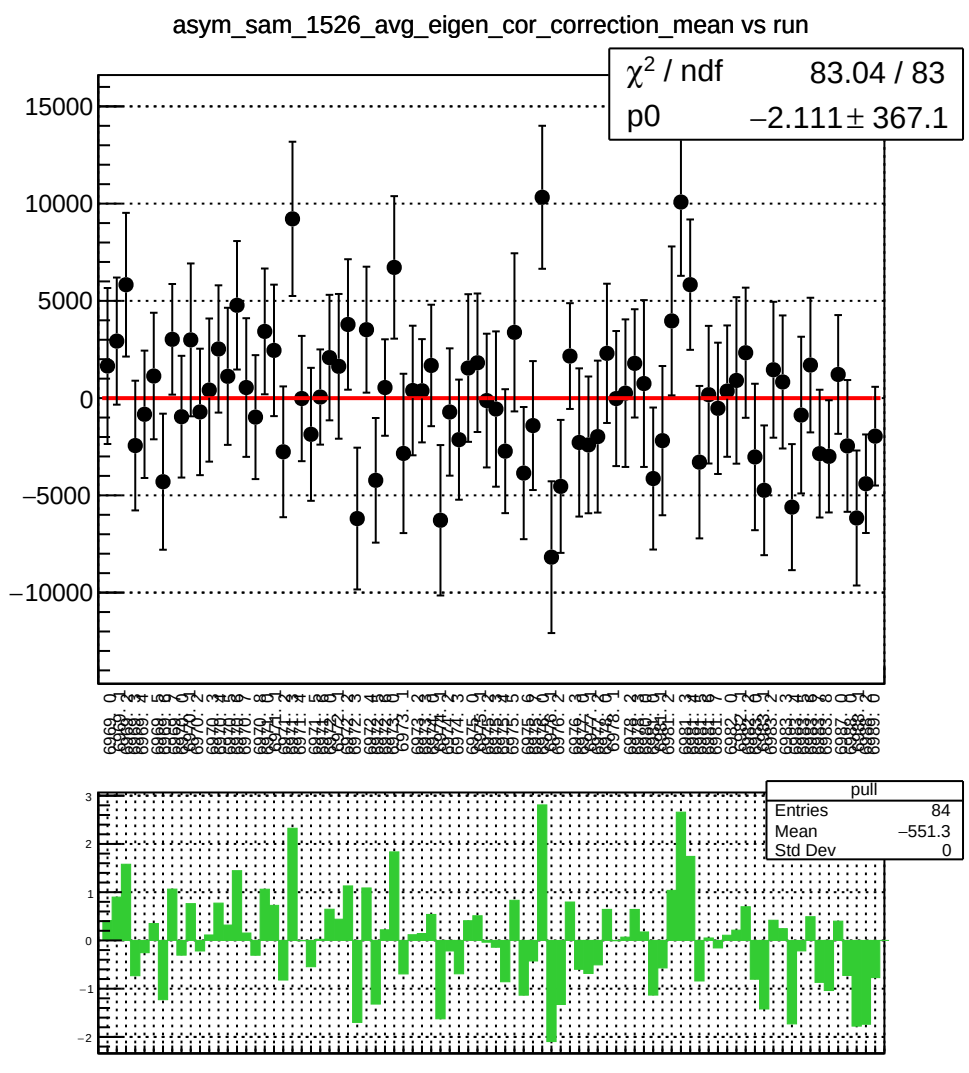

pull1D
Entries 84
Mean 0.01019
Std Dev 0.9942
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

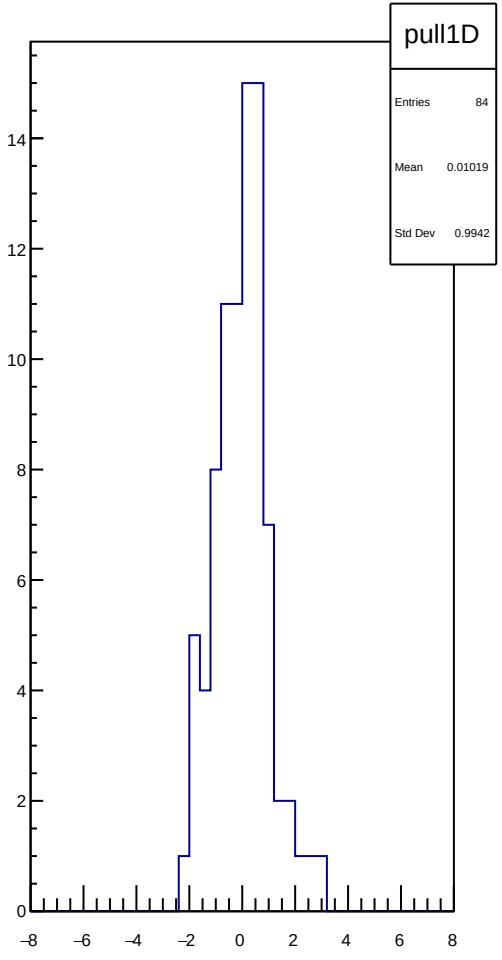

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.009e+04 / 83
p0 334.8 ± 0.2596
420
400
380
360
340
320
300

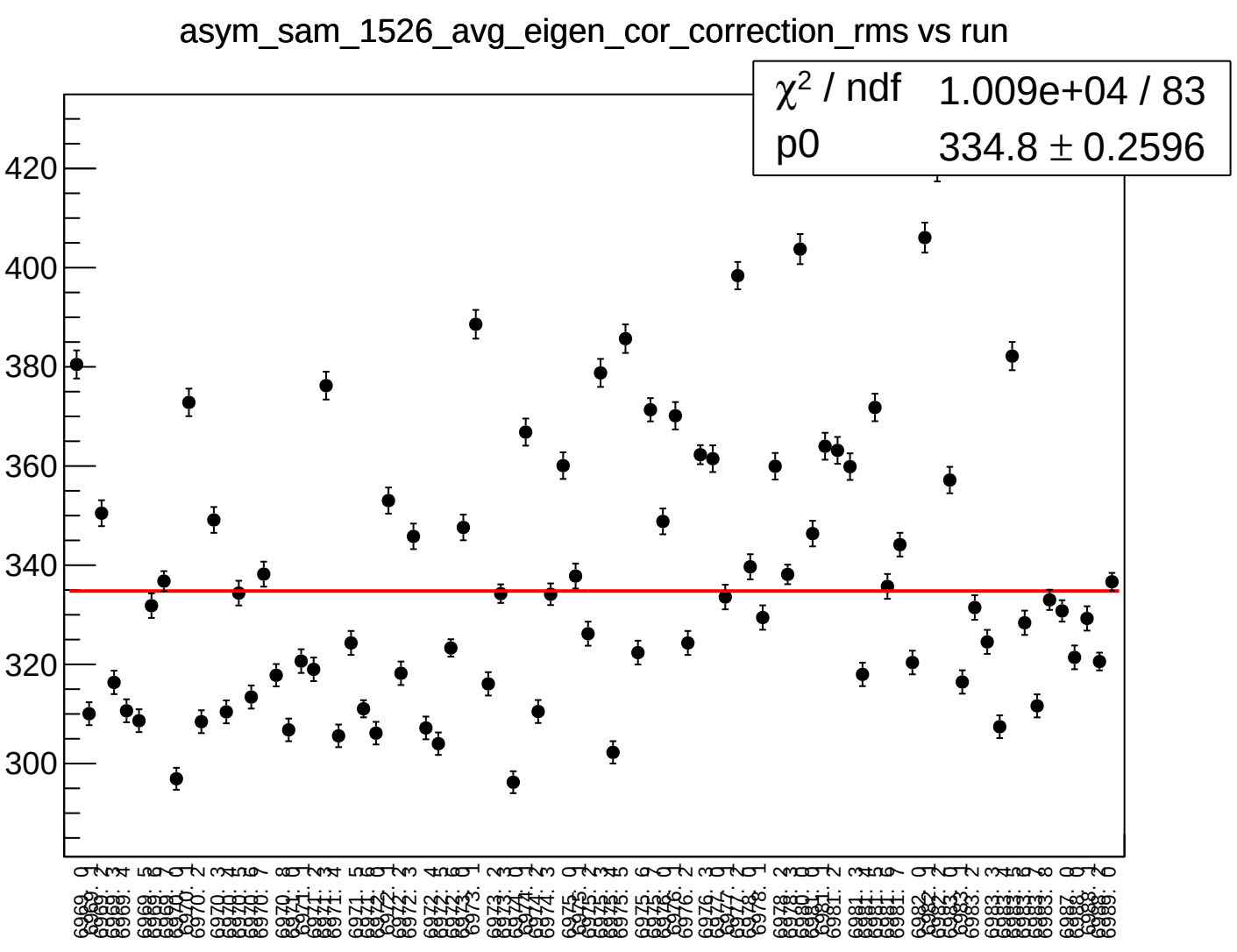

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 85.51 / 83
p0 −38.72 ± 53.11
pull
Entries 84
Mean −6.987
Std Dev 0

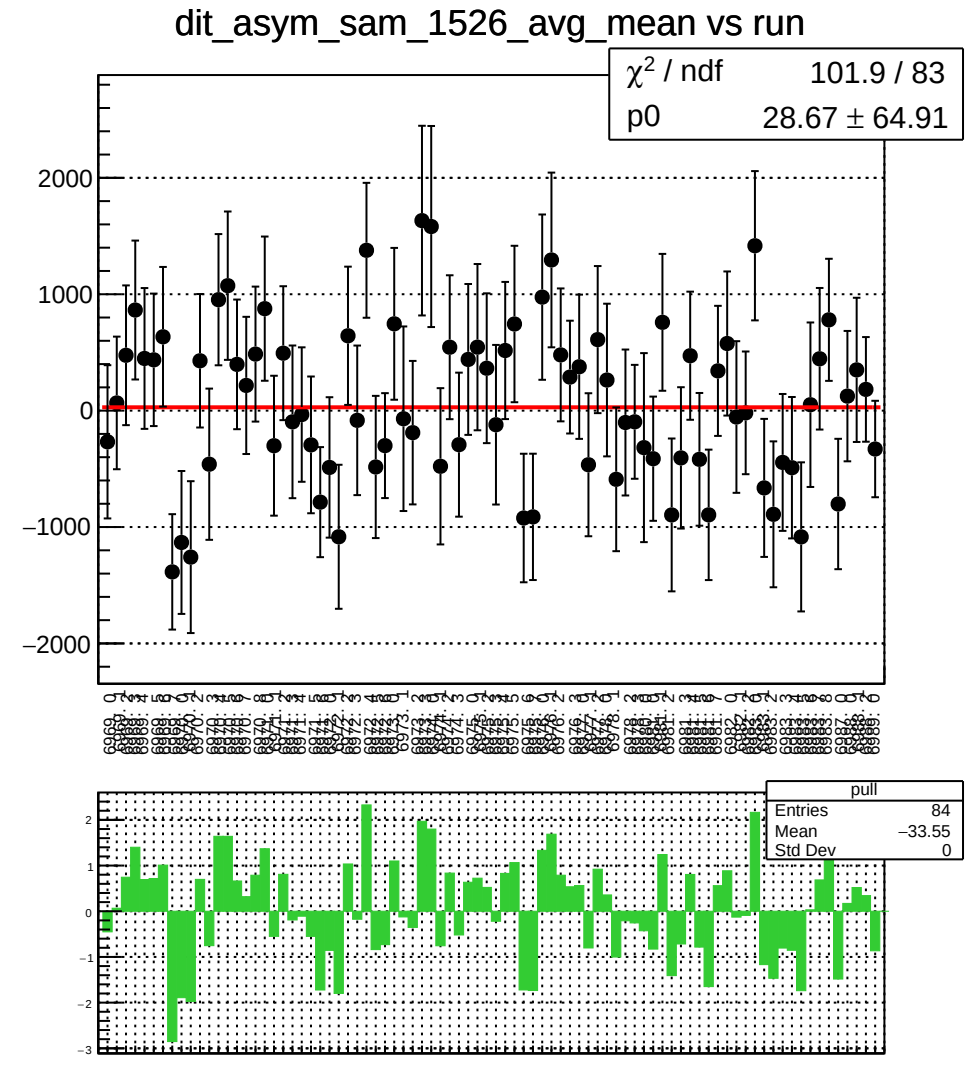

pull1D
Entries 84
Mean 0.03067
Std Dev 1.008

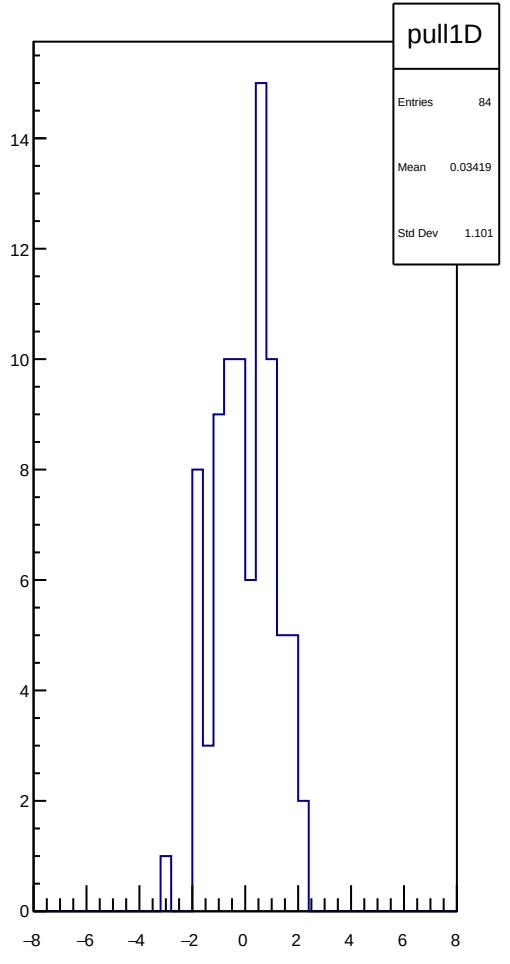

eigen_cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.038e+04 / 83
p0 48.28 ± 0.03755
90
80
70
60
50
40

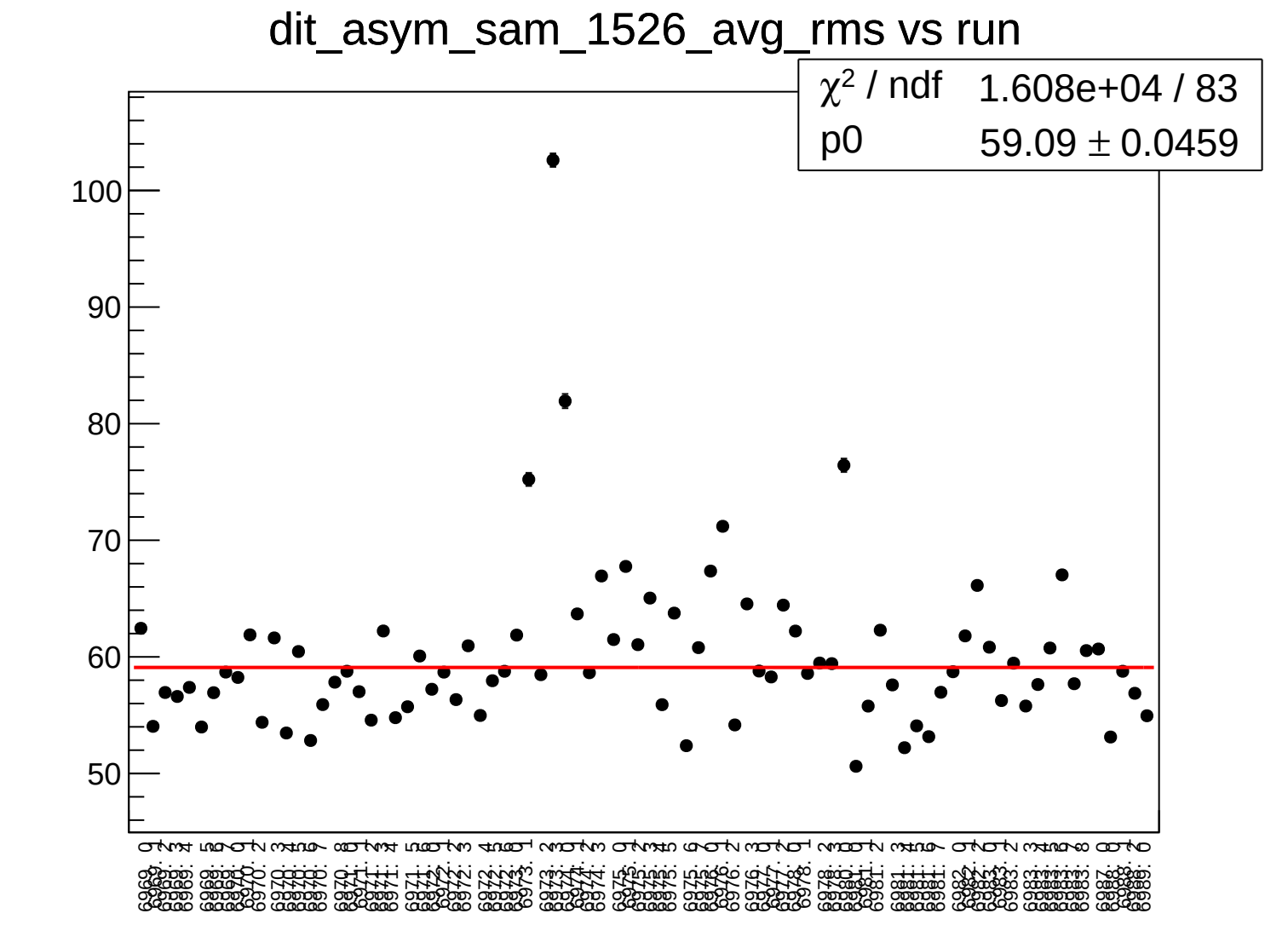

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.04 / 83
p0 −2.111 ± 367.1
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −551.3
Std Dev 0
3
2
1
0
−1
−2

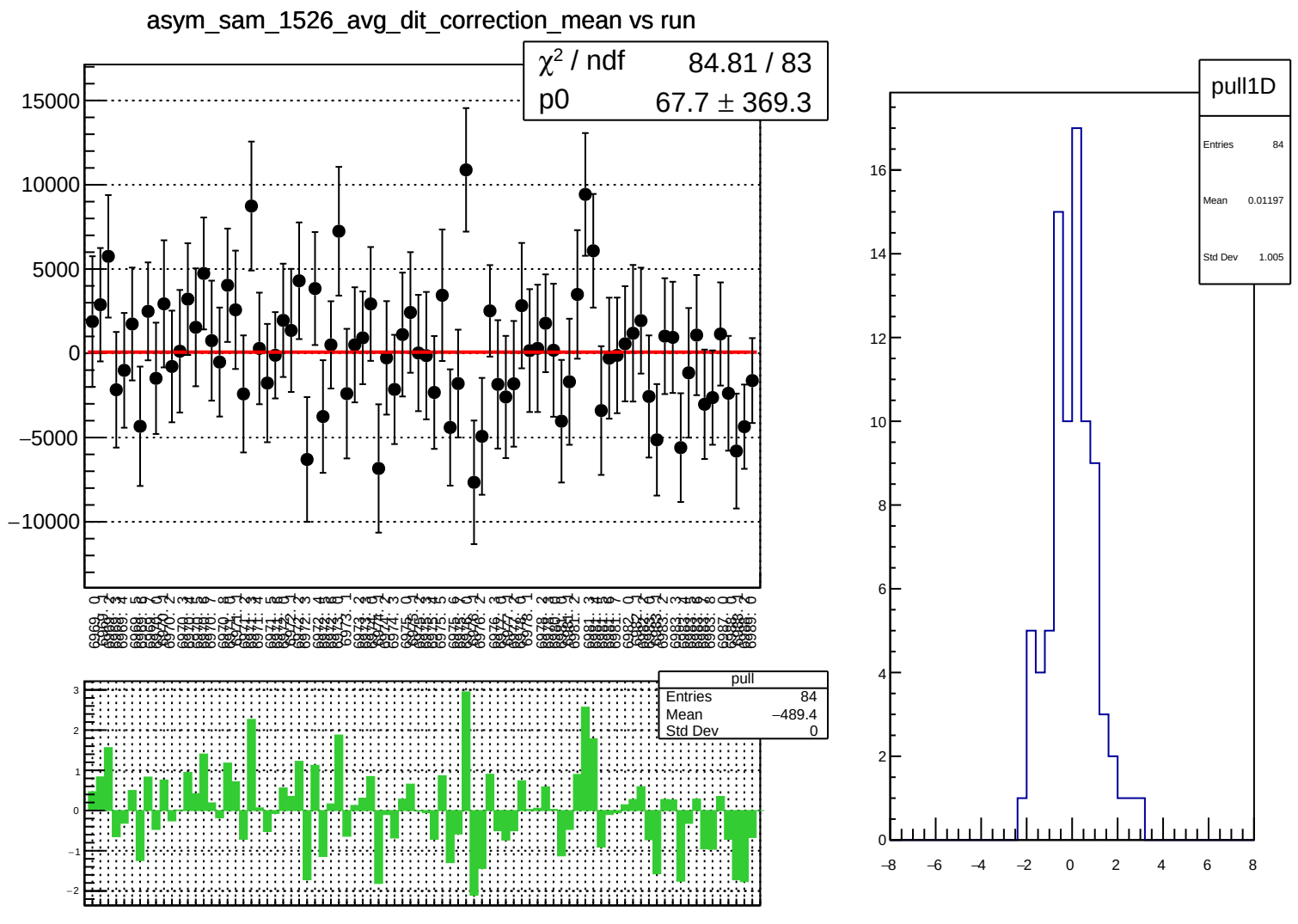

pull1D
Entries 84
Mean 0.01019
Std Dev 0.9942
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

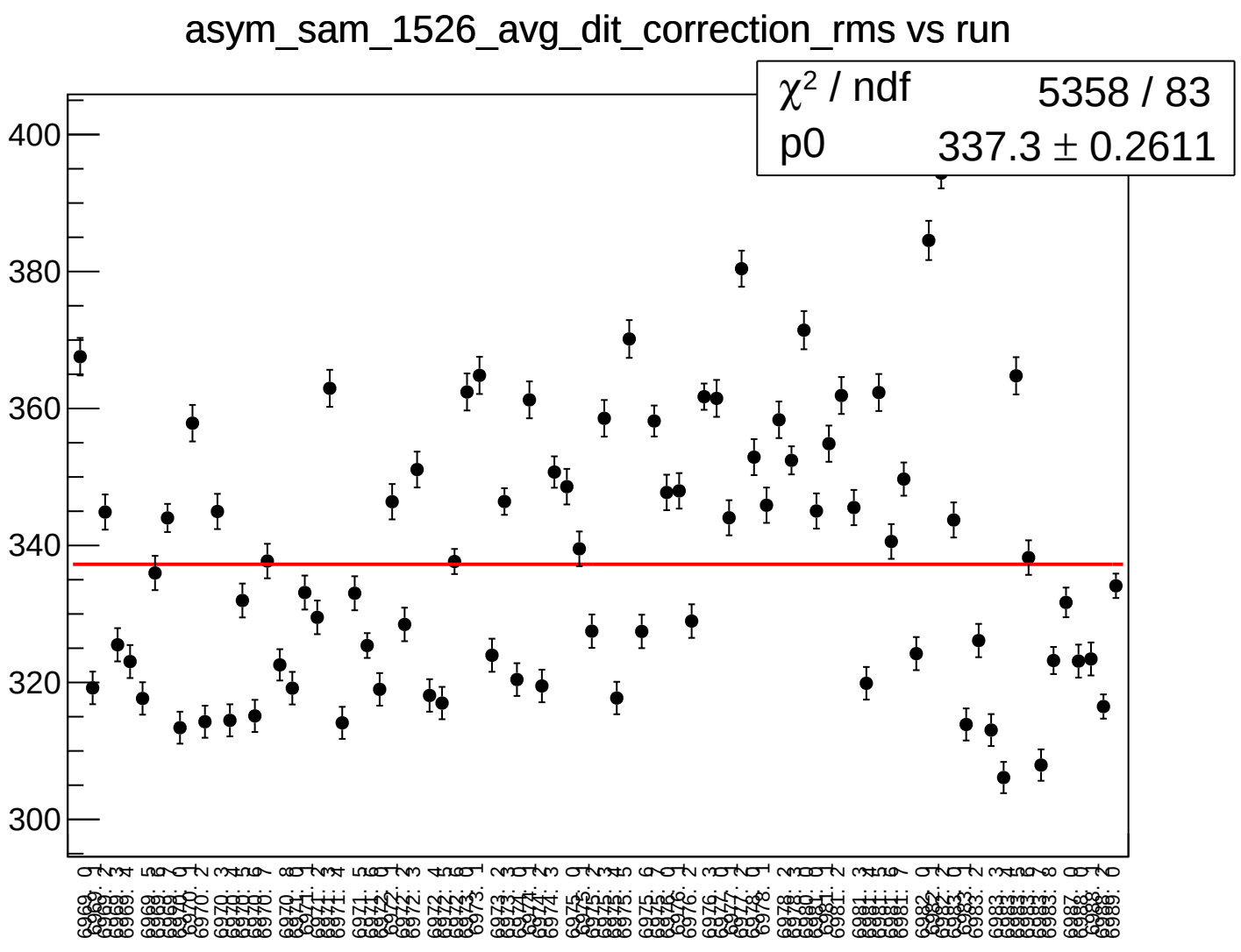

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.009e+04 / 83
p0 334.8 ± 0.2596
420
400
380
360
340
320
300

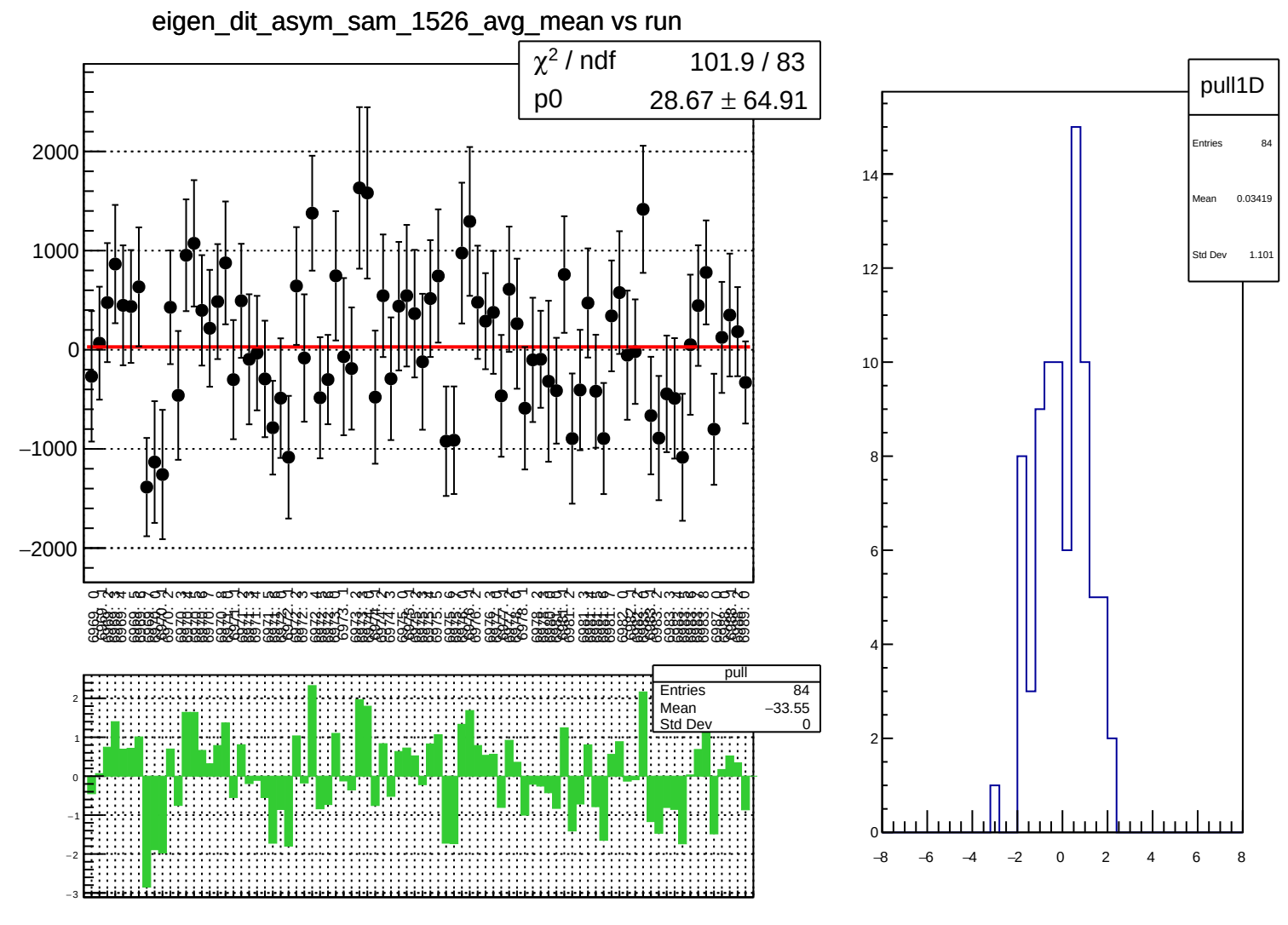

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 101.9 / 83
p0 28.67 ± 64.91
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −33.55
Std Dev 0
2
1
0
−1
−2
−3

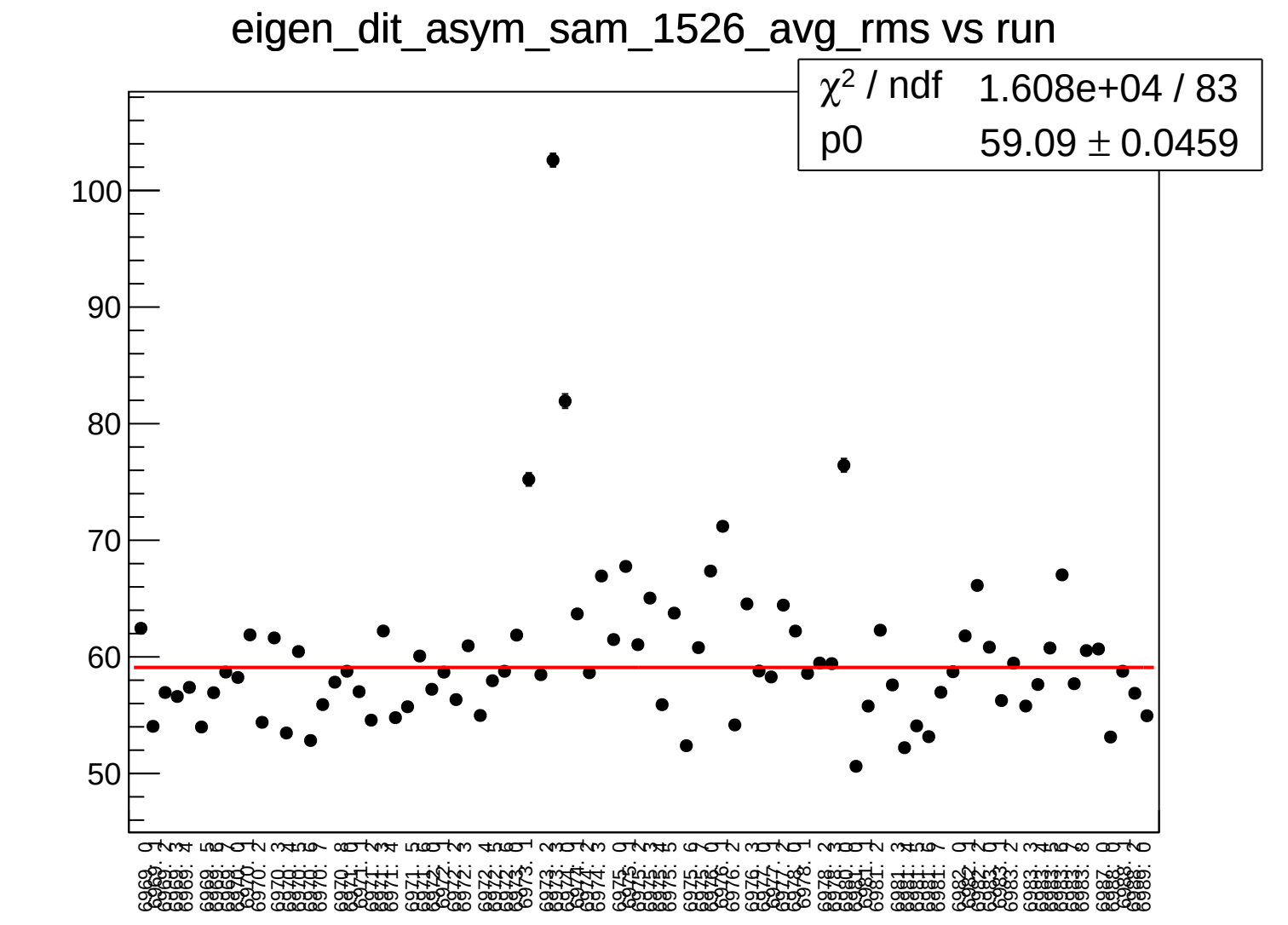

pull1D
Entries 84
Mean 0.03419
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

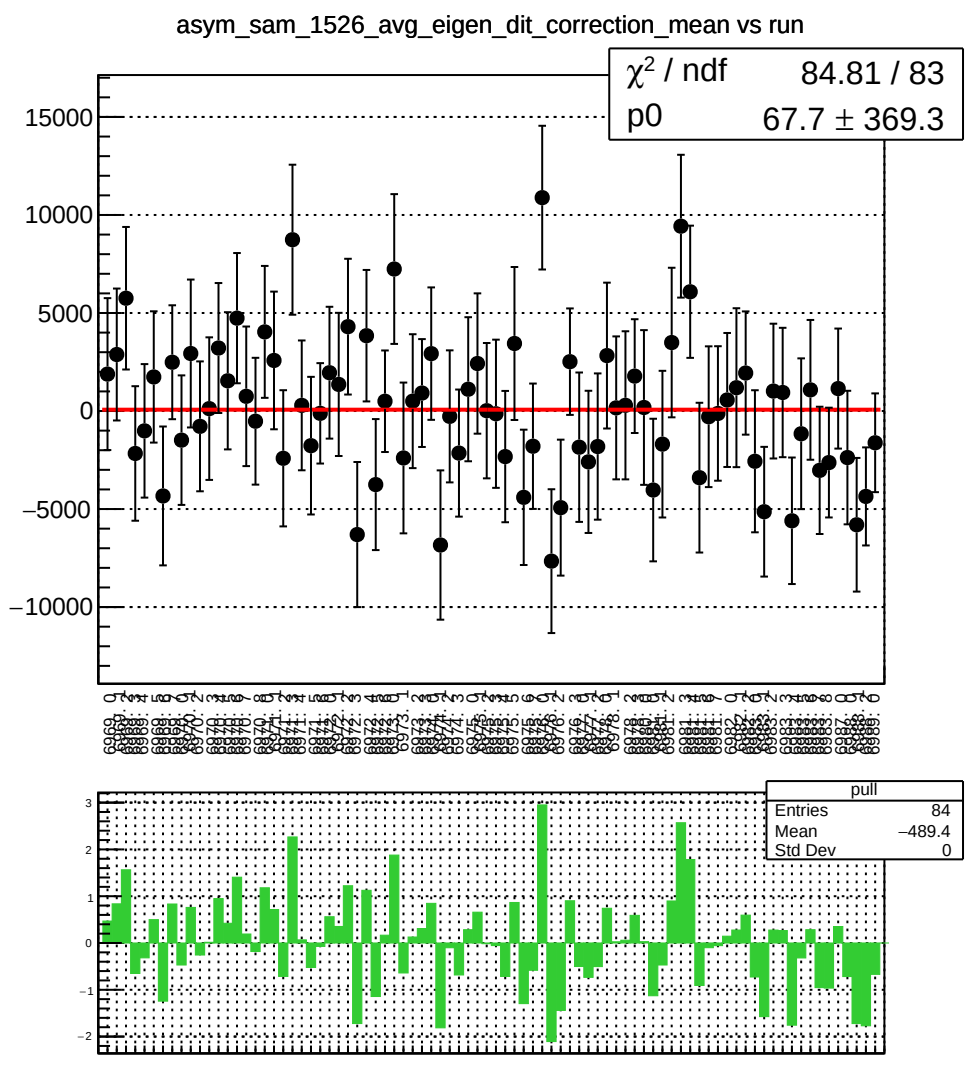

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.608e+04 / 83
p0 59.09 ± 0.0459
100
90
80
70
60
50

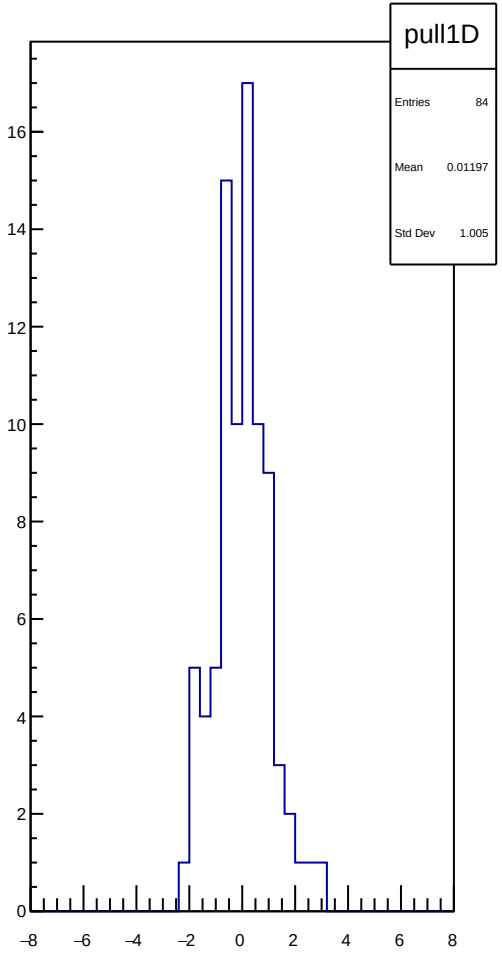

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 84.81 / 83
p0 67.7 ± 369.3
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −489.4
Std Dev 0
pull1D
Entries 84
Mean 0.01197
Std Dev 1.005

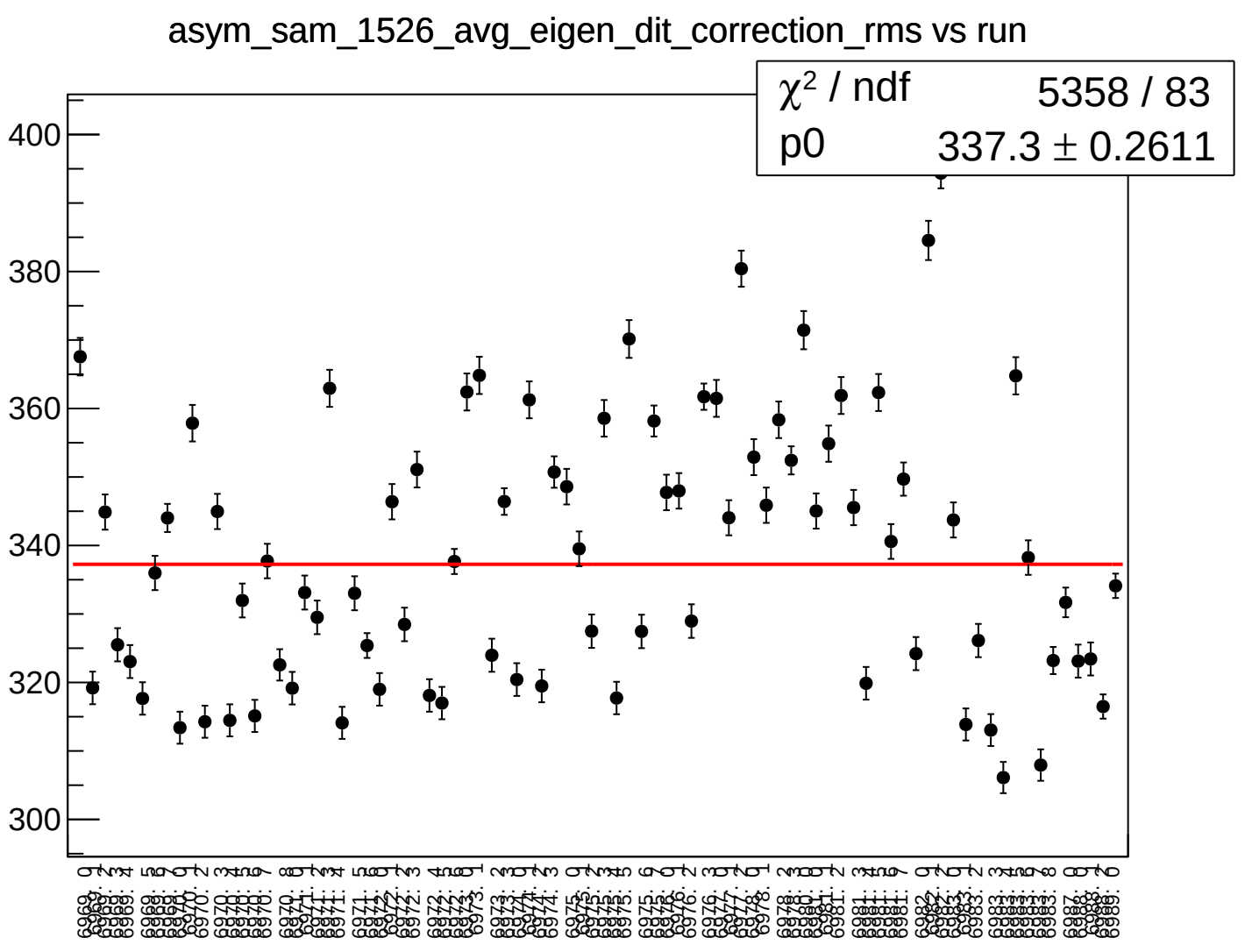

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 5358 / 83
p0 337.3 ± 0.2611
400
380
360
340
320
300

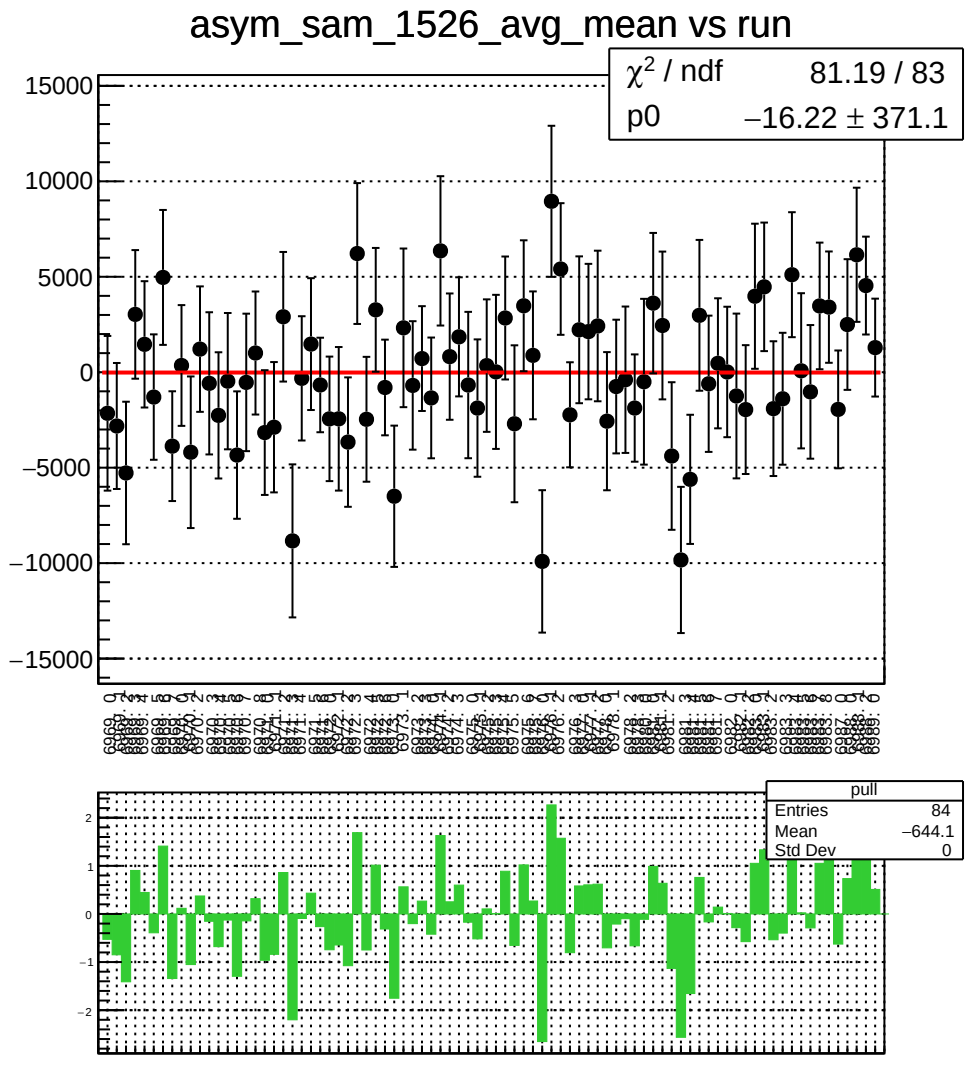

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 101.9 / 83
p0 28.67 ± 64.91
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −33.55
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.03419
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

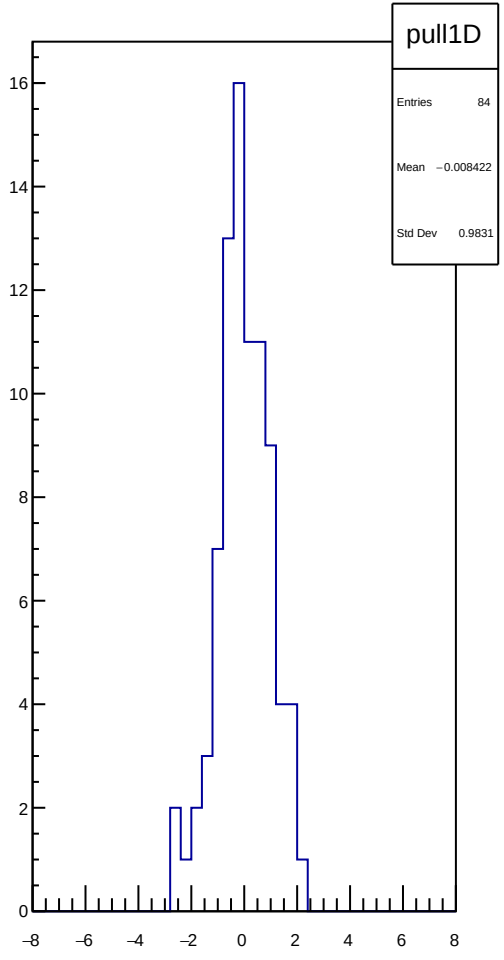

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.608e+04 / 83
p0 59.09 ± 0.0459
100
90
80
70
60
50

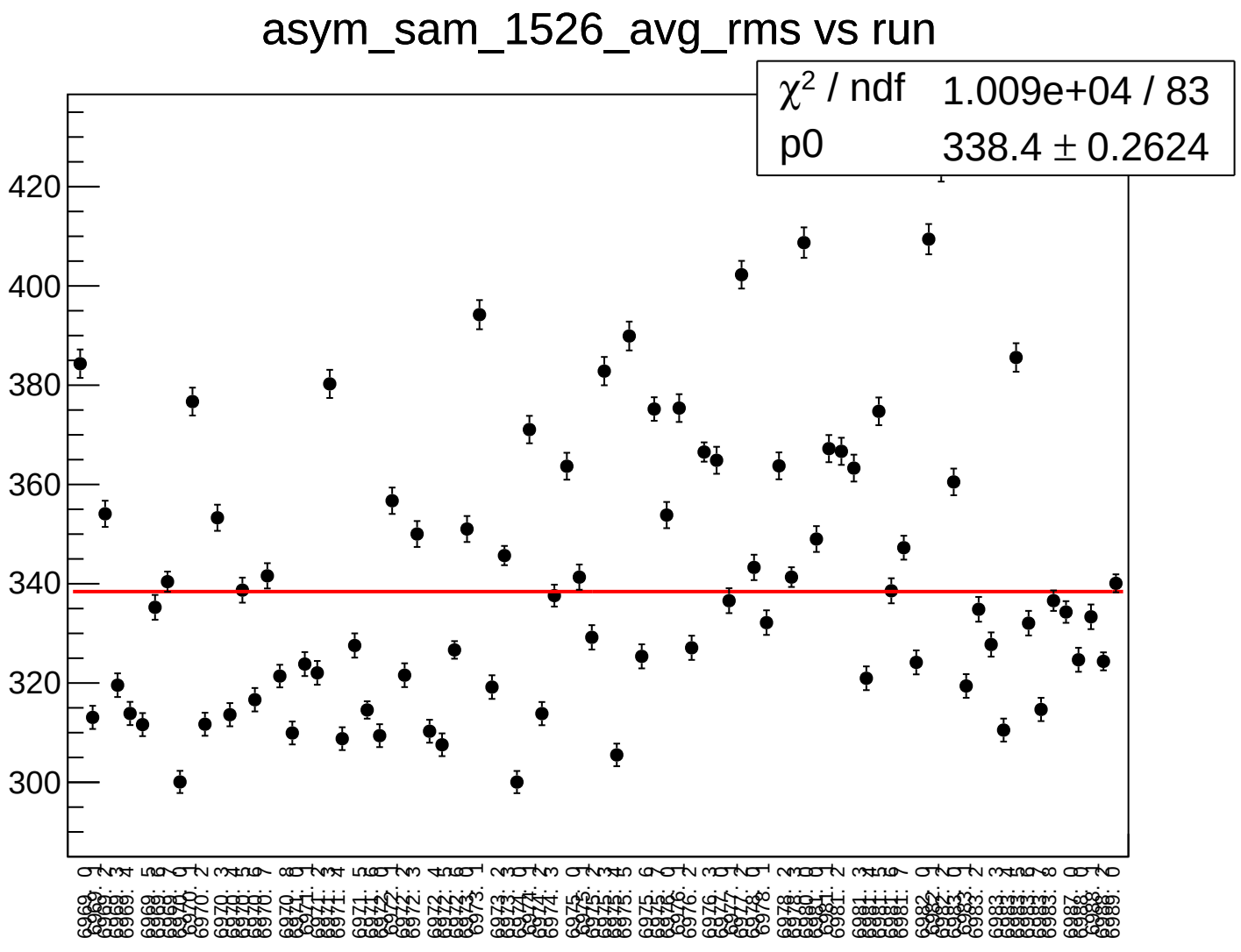

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.81 / 83
p0 67.7 ± 369.3
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −489.4
Std Dev 0
3
2
1
0
−1
−2

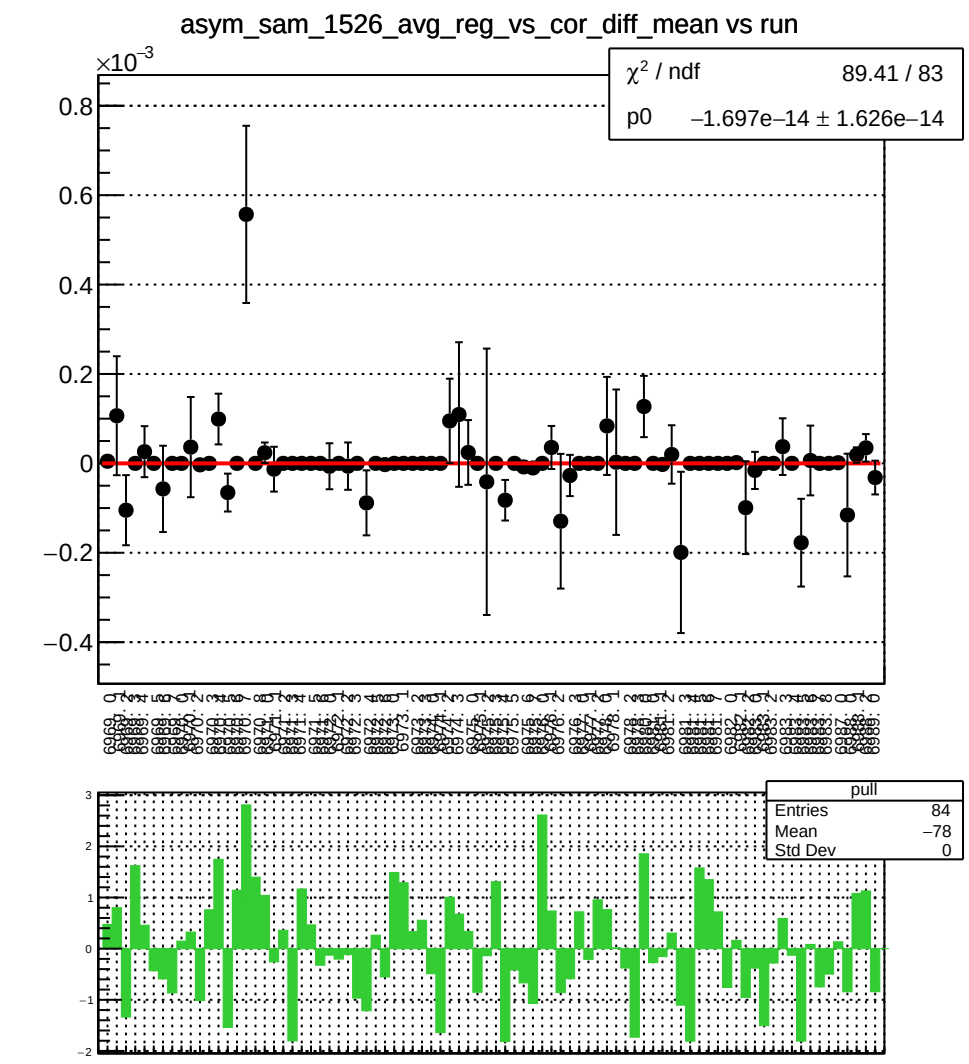

pull1D
Entries 84
Mean 0.01197
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

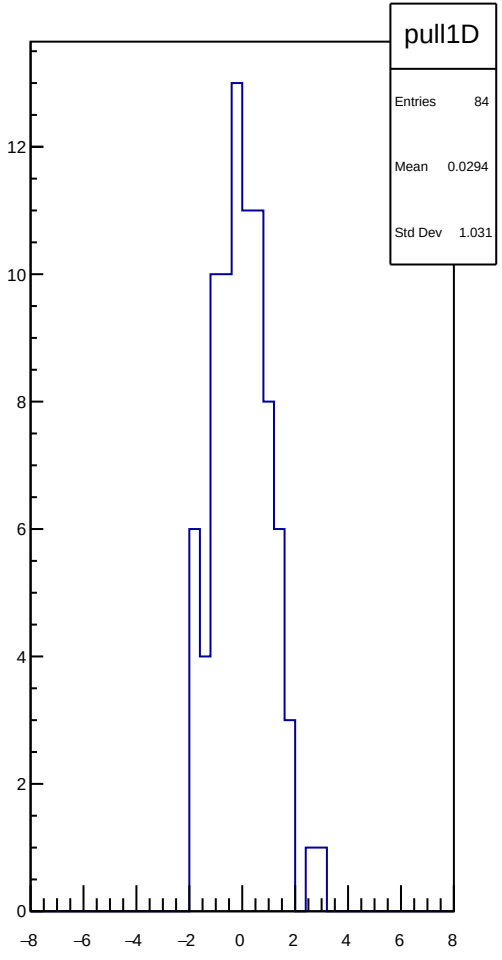

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 5358 / 83
p0 337.3 ± 0.2611
400
380
360
340
320
300

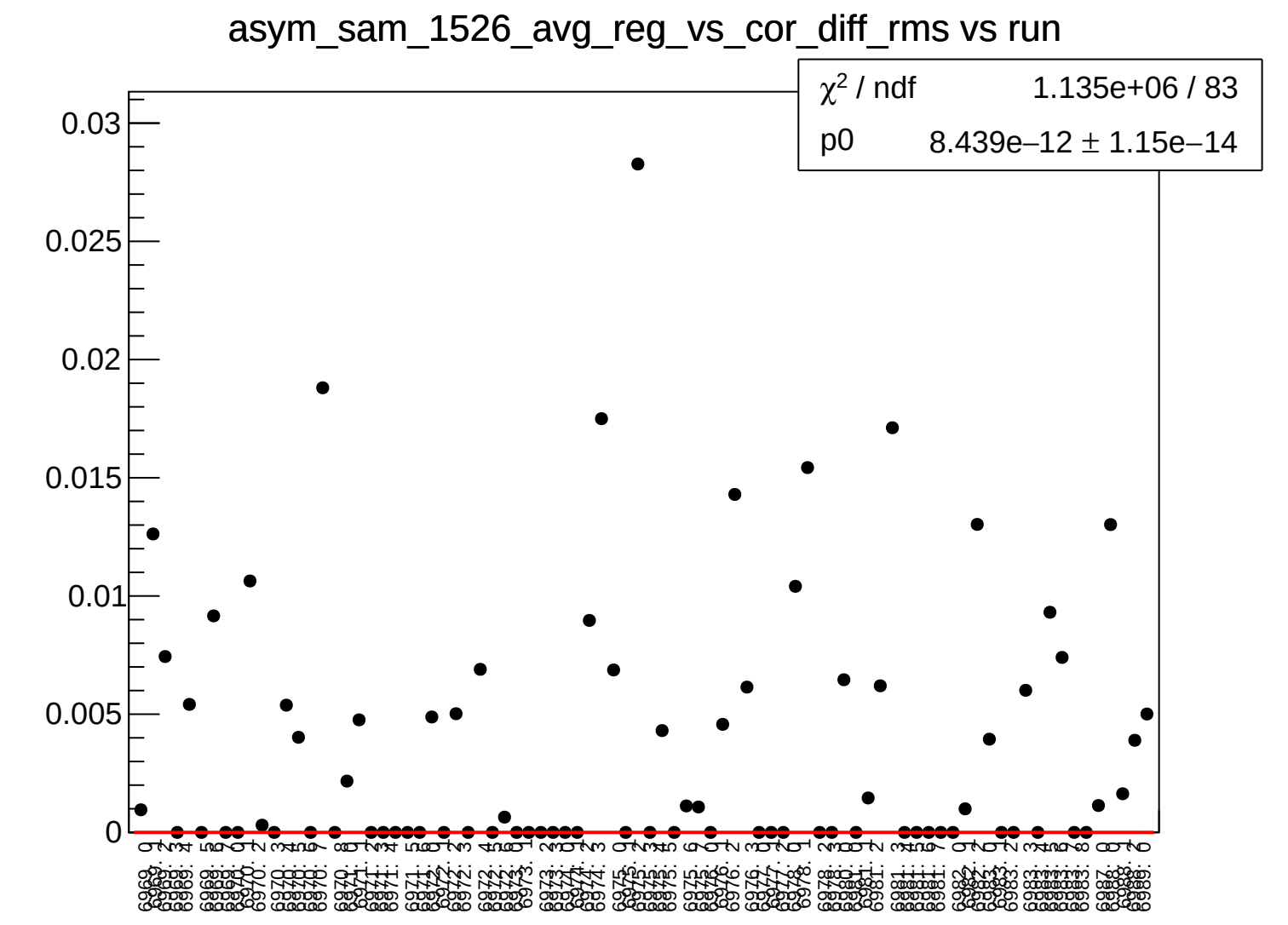

asym_sam_1526_avg_mean vs run
χ² / ndf 81.19 / 83
p0 −16.22 ± 371.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −644.1
Std Dev 0
2
1
0
−1
−2

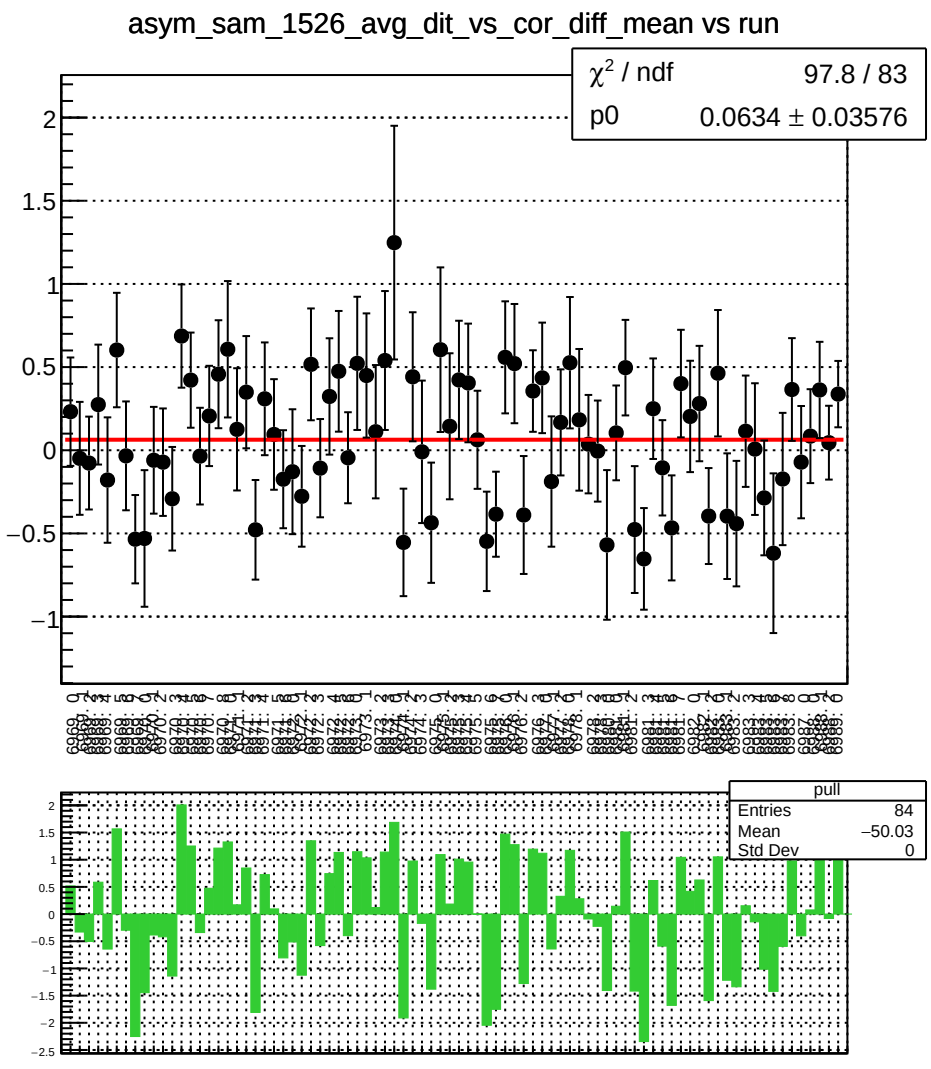

pull1D
Entries 84
Mean −0.008422
Std Dev 0.9831
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

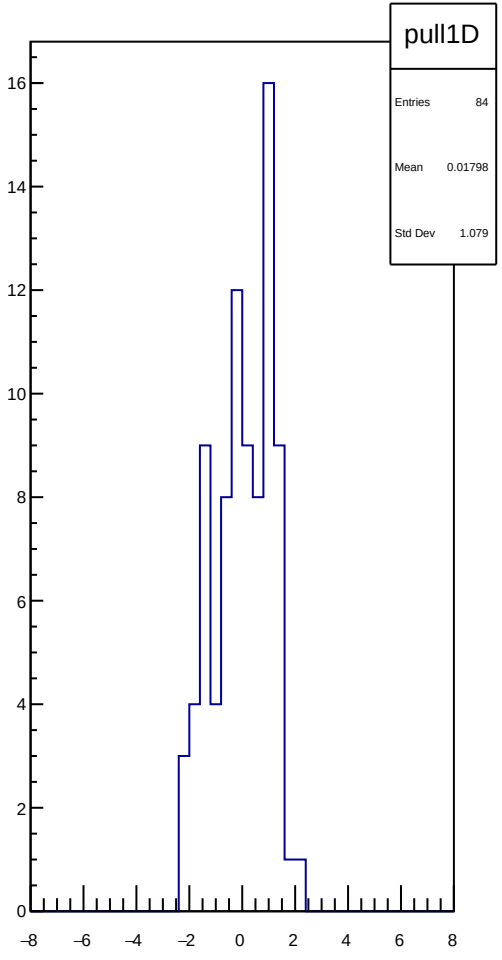

asym_sam_1526_avg_rms vs run
χ² / ndf 1.009e+04 / 83
p0 338.4 ± 0.2624
420
400
380
360
340
320
300

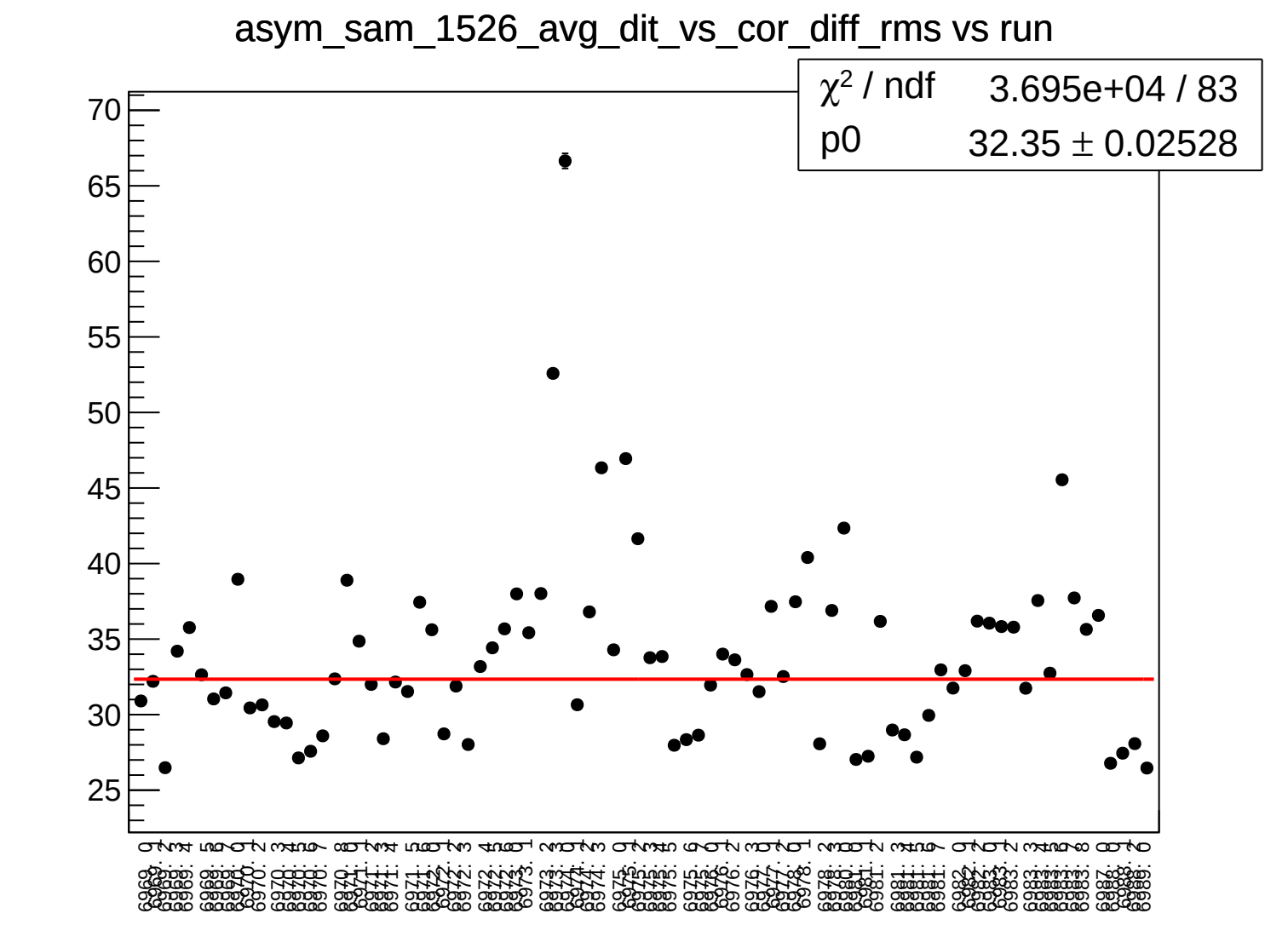

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 89.41 / 83
p0 −1.697e−14 ± 1.626e−14
pull
Entries 84
Mean −78
Std Dev 0

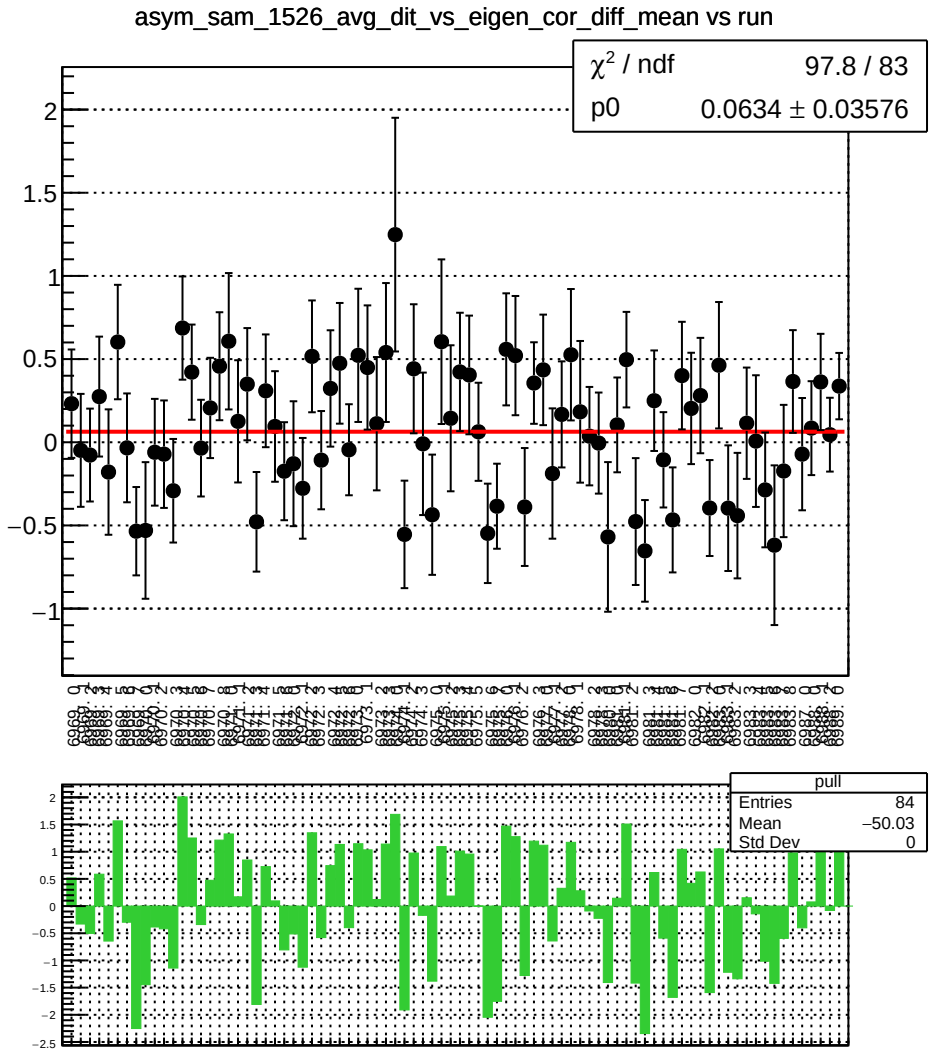

pull1D
Entries 84
Mean 0.0294
Std Dev 1.031

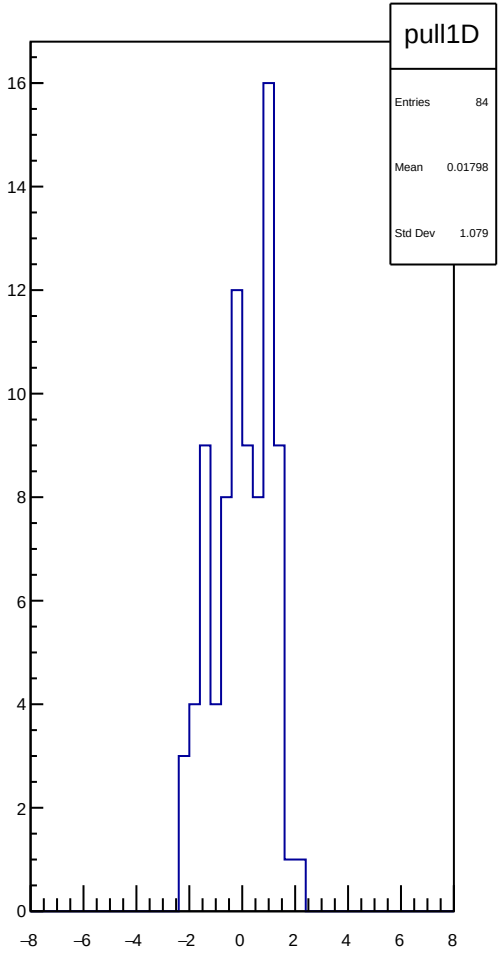

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.135e+06 / 83
p0 8.439e−12 ± 1.15e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

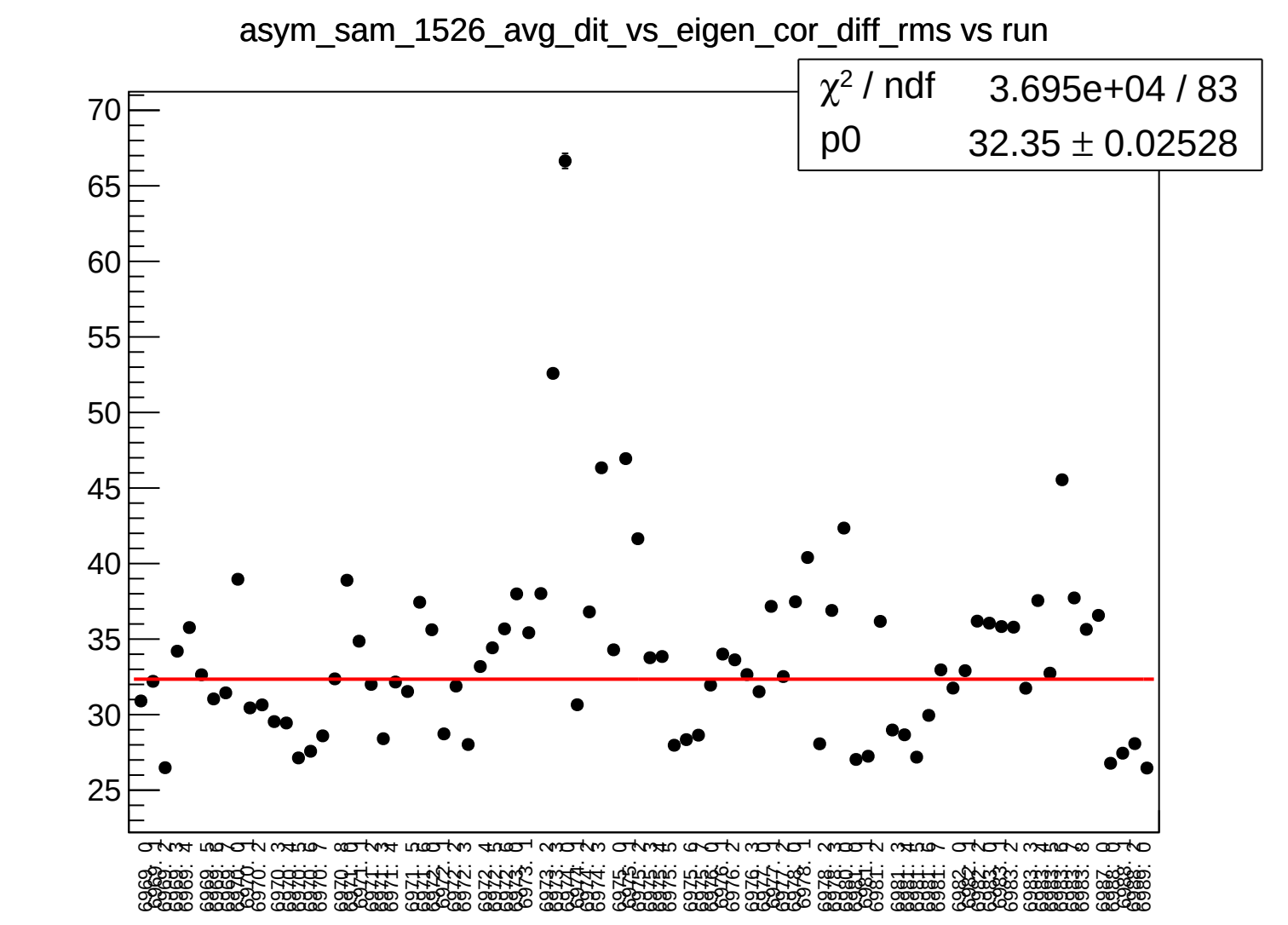

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.8 / 83
p0 0.0634 ± 0.03576
pull
Entries 84
Mean −50.03
Std Dev 0

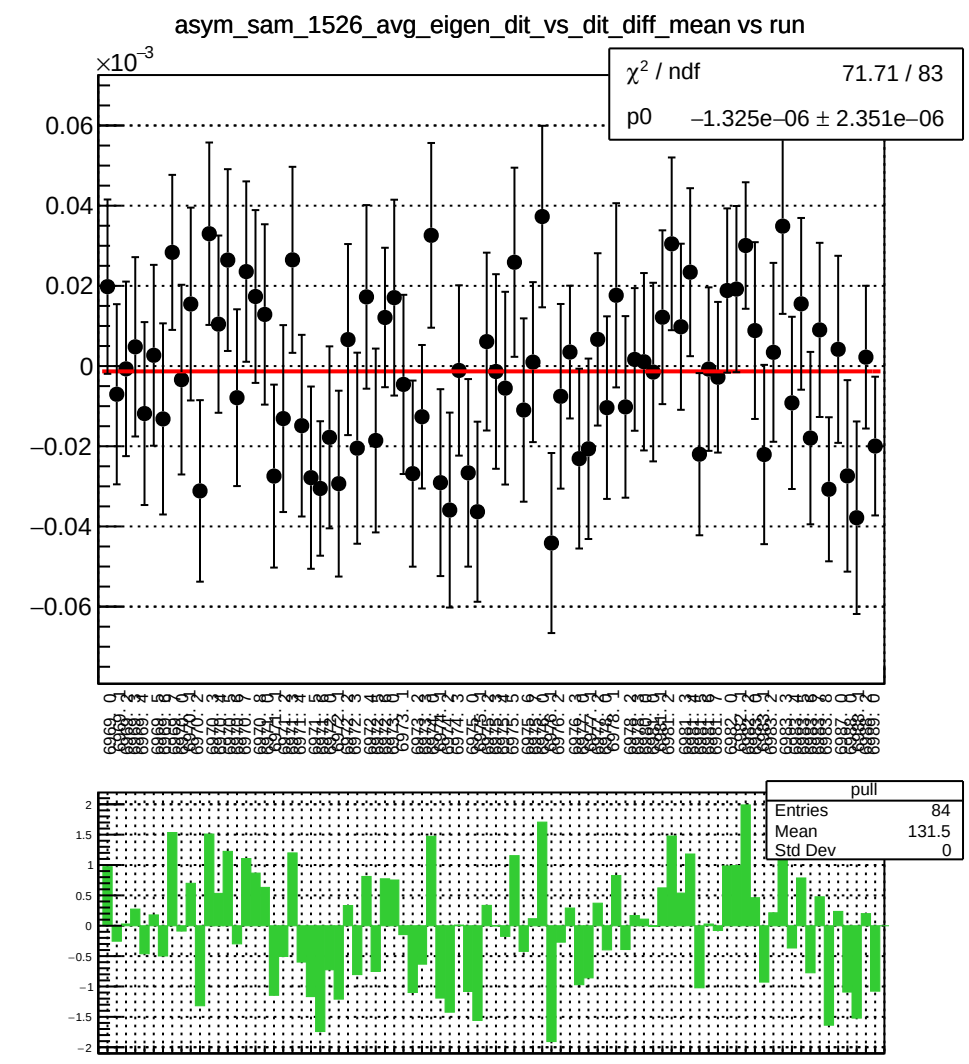

pull1D
Entries 84
Mean 0.01798
Std Dev 1.079

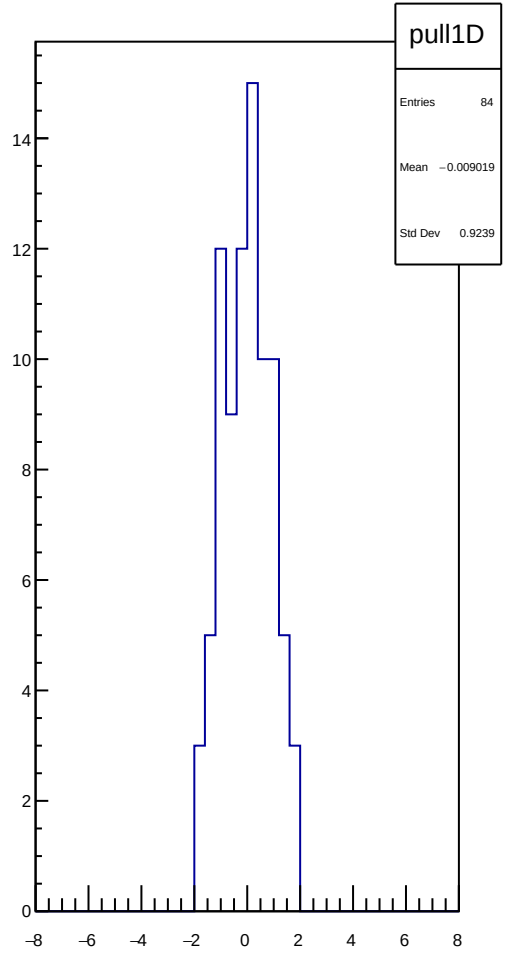

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.695e+04 / 83
p0 32.35 ± 0.02528
70
65
60
55
50
45
40
35
30
25

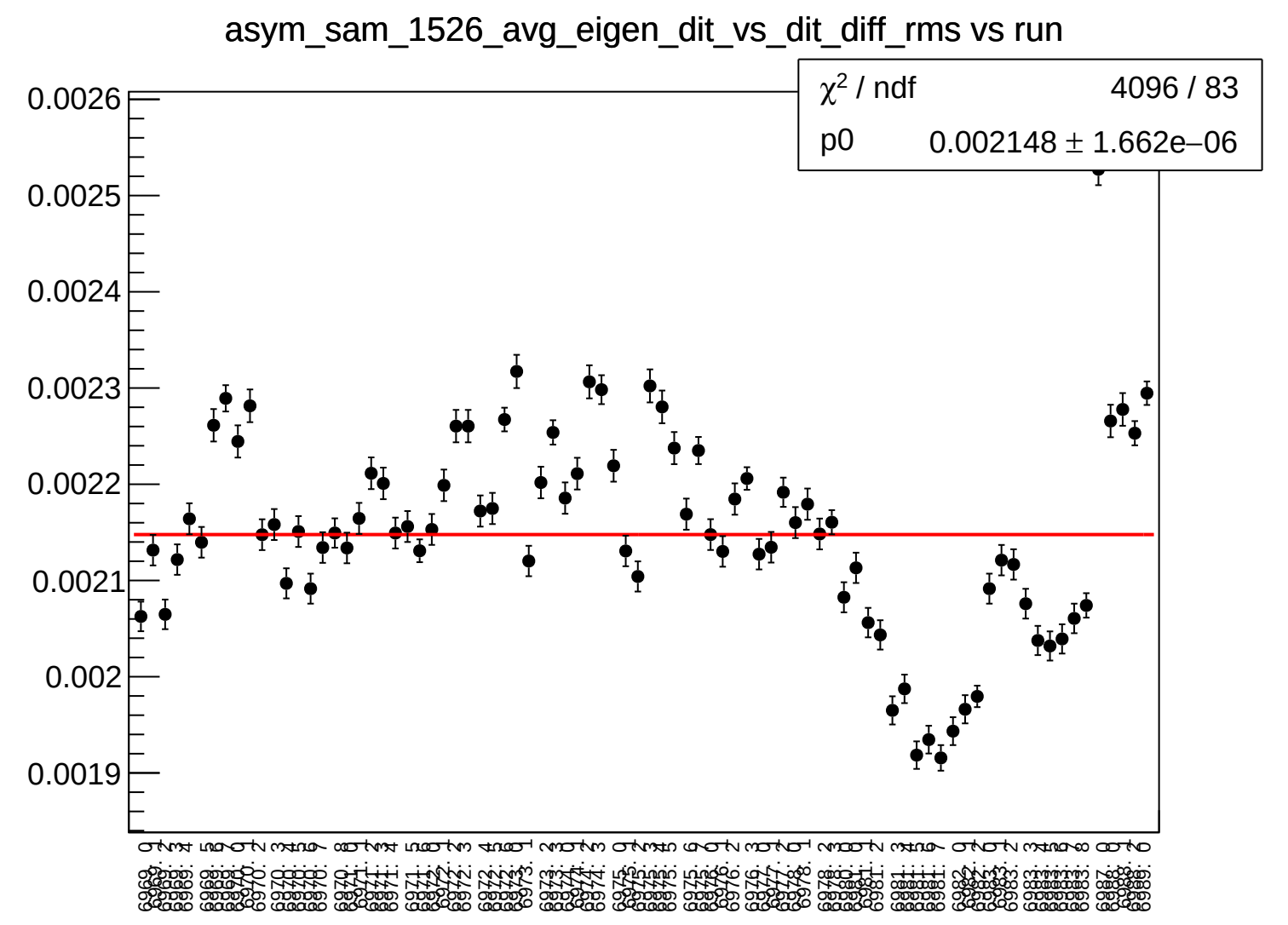

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.8 / 83
p0 0.0634 ± 0.03576
pull
Entries 84
Mean −50.03
Std Dev 0

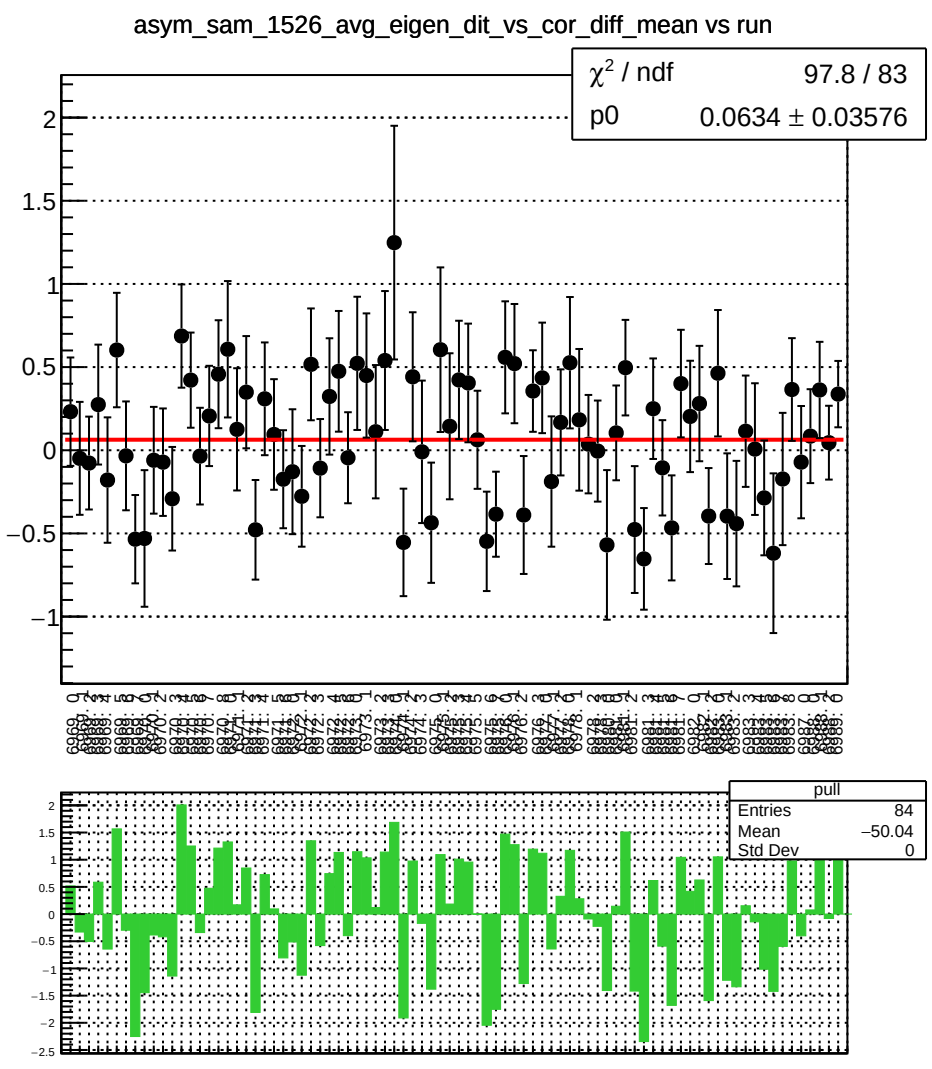

pull1D
Entries 84
Mean 0.01798
Std Dev 1.079

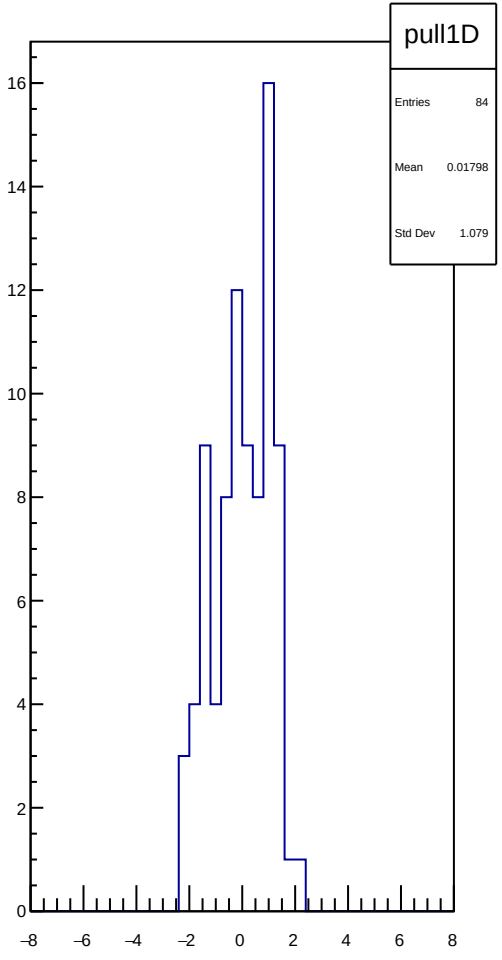

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.695e+04 / 83
p0 32.35 ± 0.02528
70
65
60
55
50
45
40
35
30
25

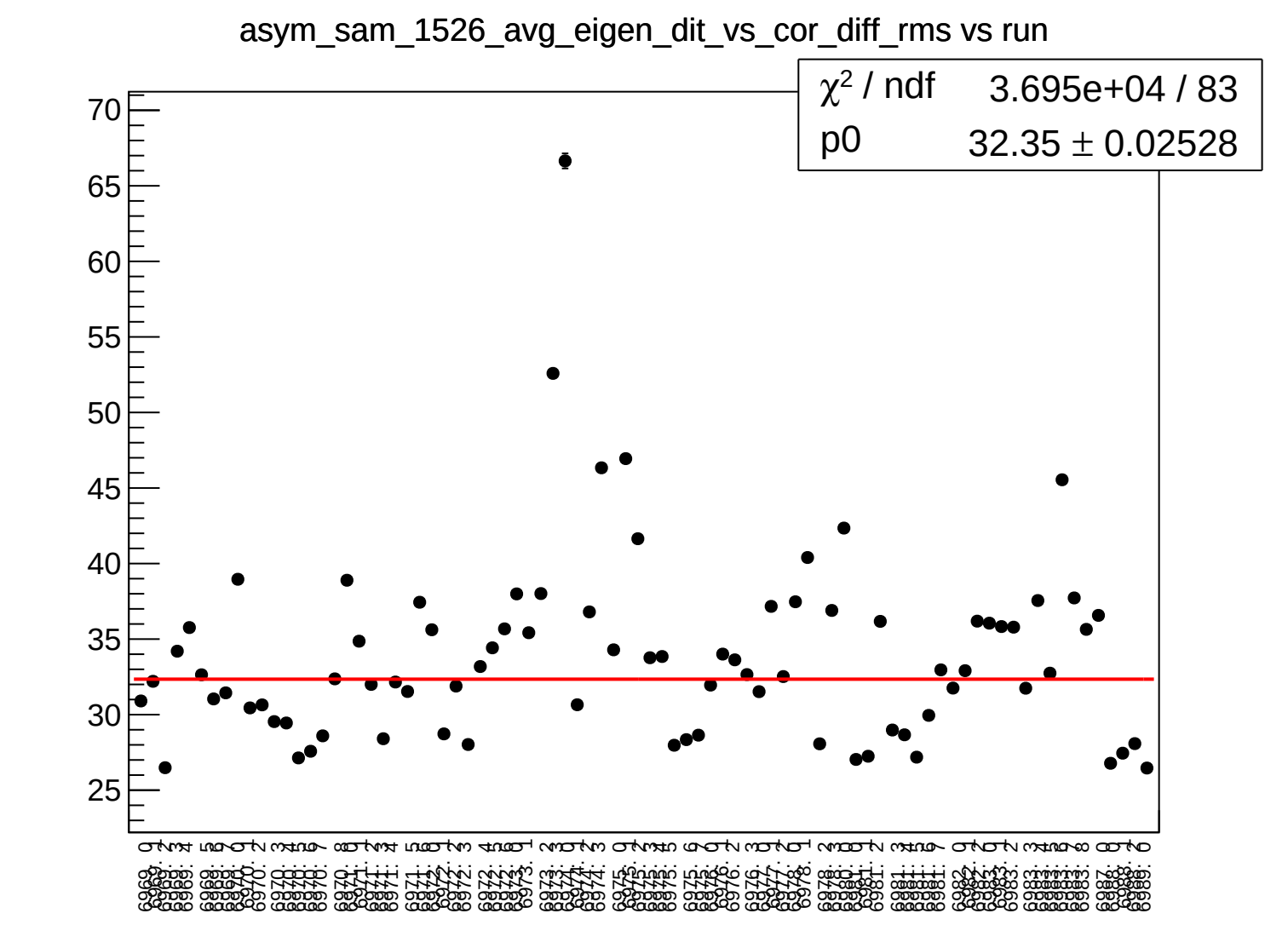

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.71 / 83
p0 −1.325e−06 ± 2.351e−06
pull
Entries 84
Mean 131.5
Std Dev 0

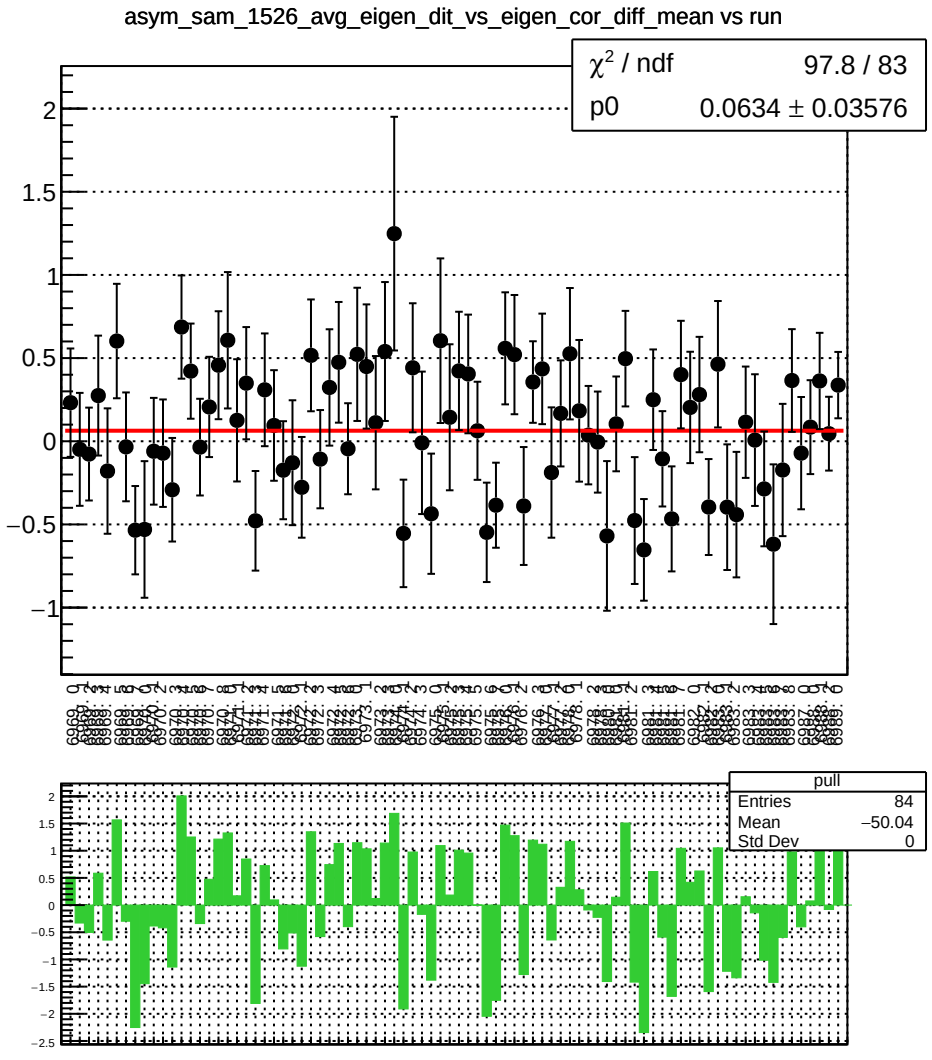

pull1D
Entries 84
Mean −0.009019
Std Dev 0.9239

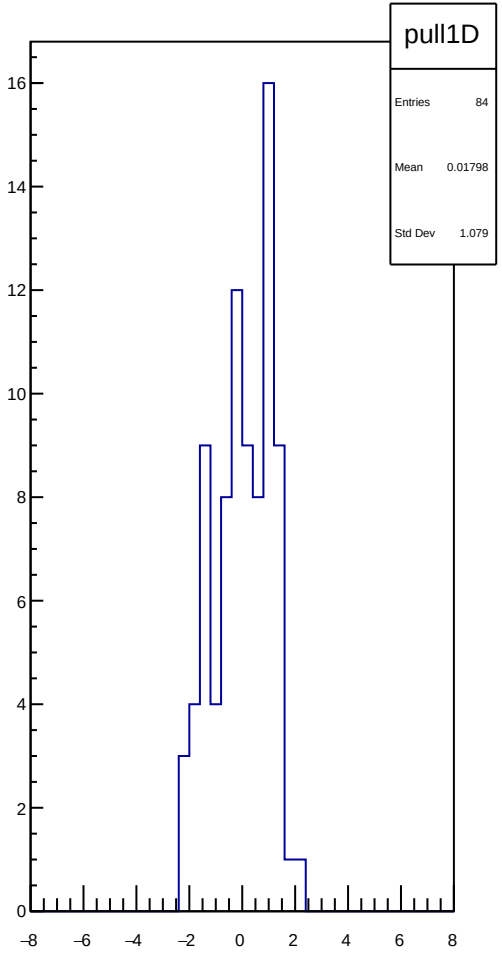

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4096 / 83
p0 0.002148 ± 1.662e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

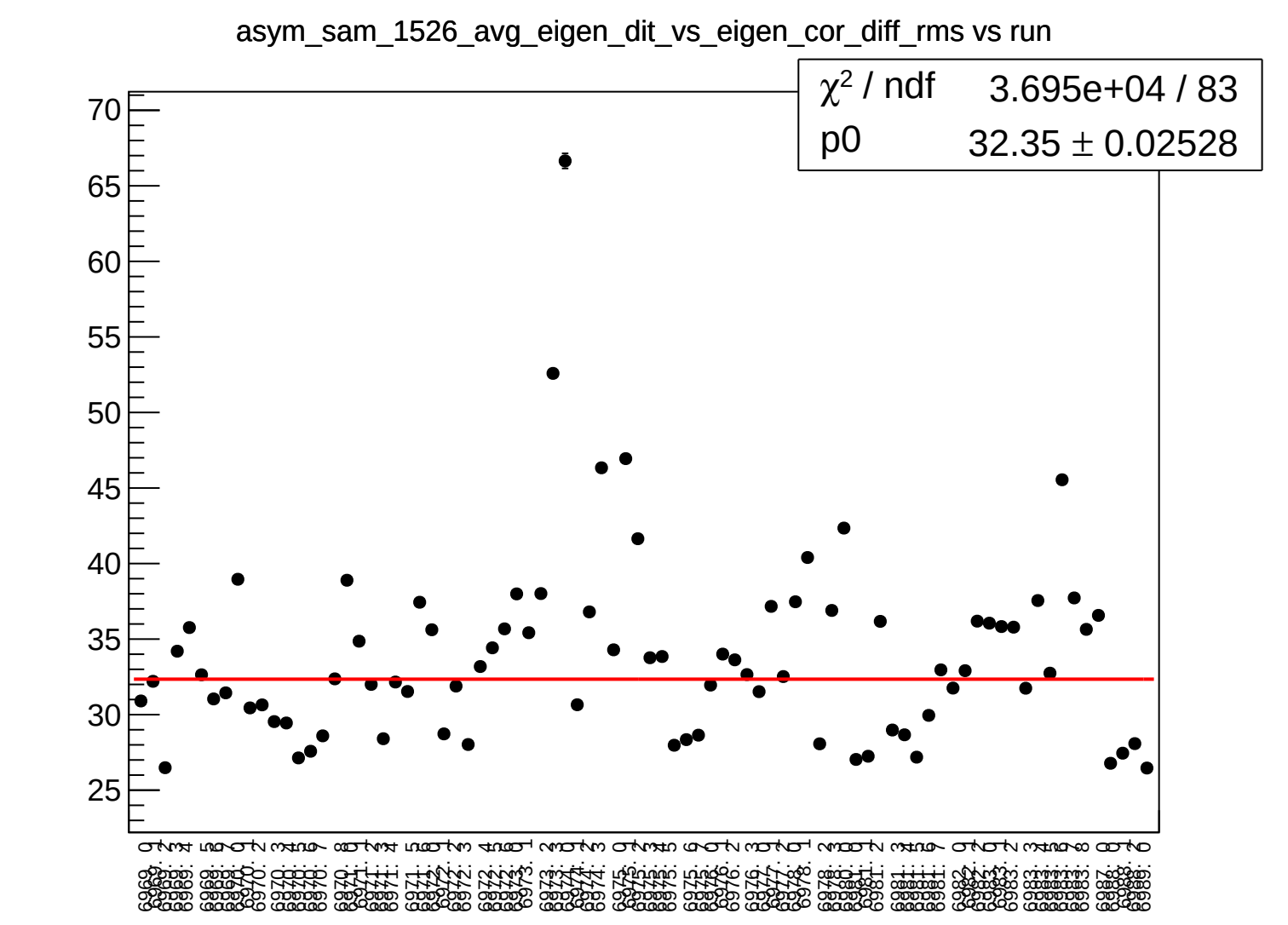

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.8 / 83
p0 0.0634 ± 0.03576
pull
Entries 84
Mean −50.04
Std Dev 0

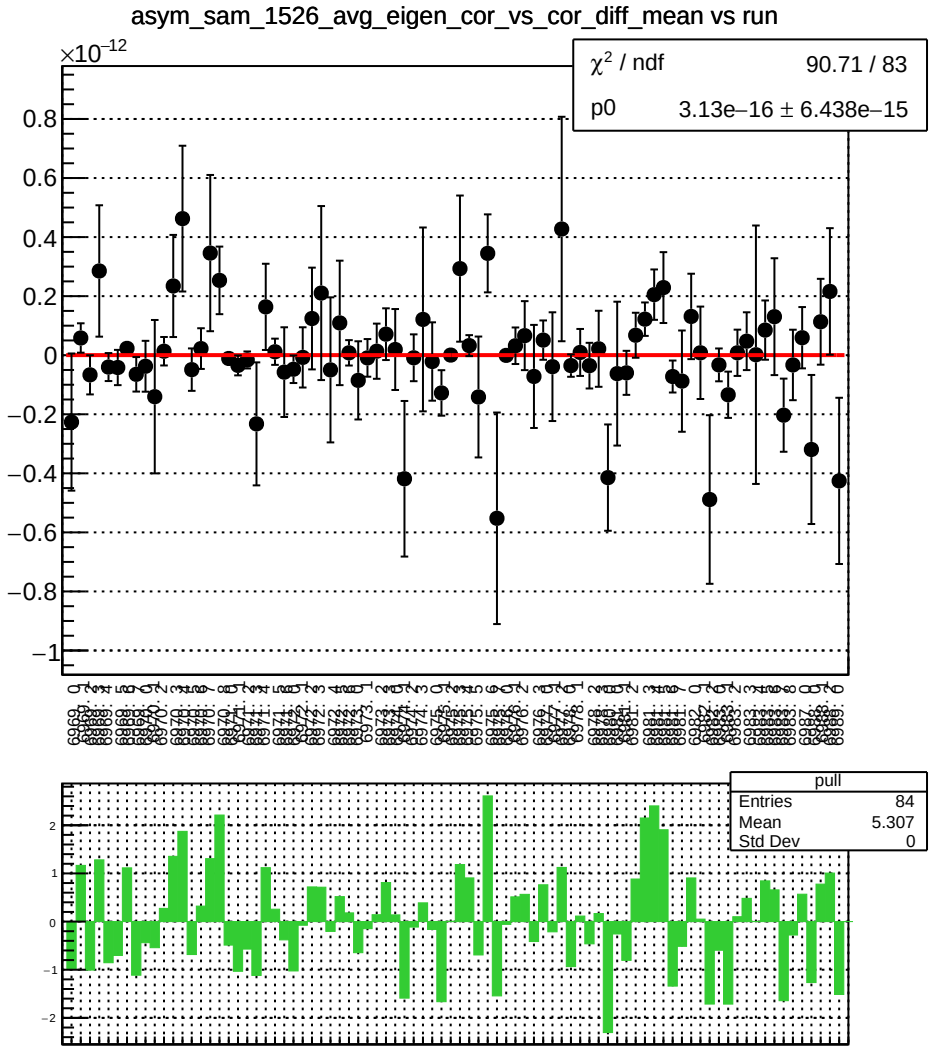

pull1D
Entries 84
Mean 0.01798
Std Dev 1.079

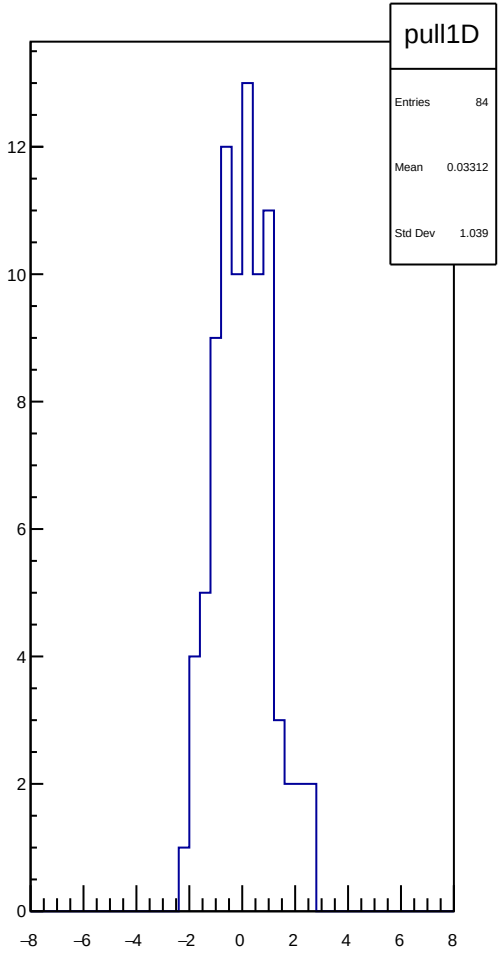

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.695e+04 / 83
p0 32.35 ± 0.02528
70
65
60
55
50
45
40
35
30
25

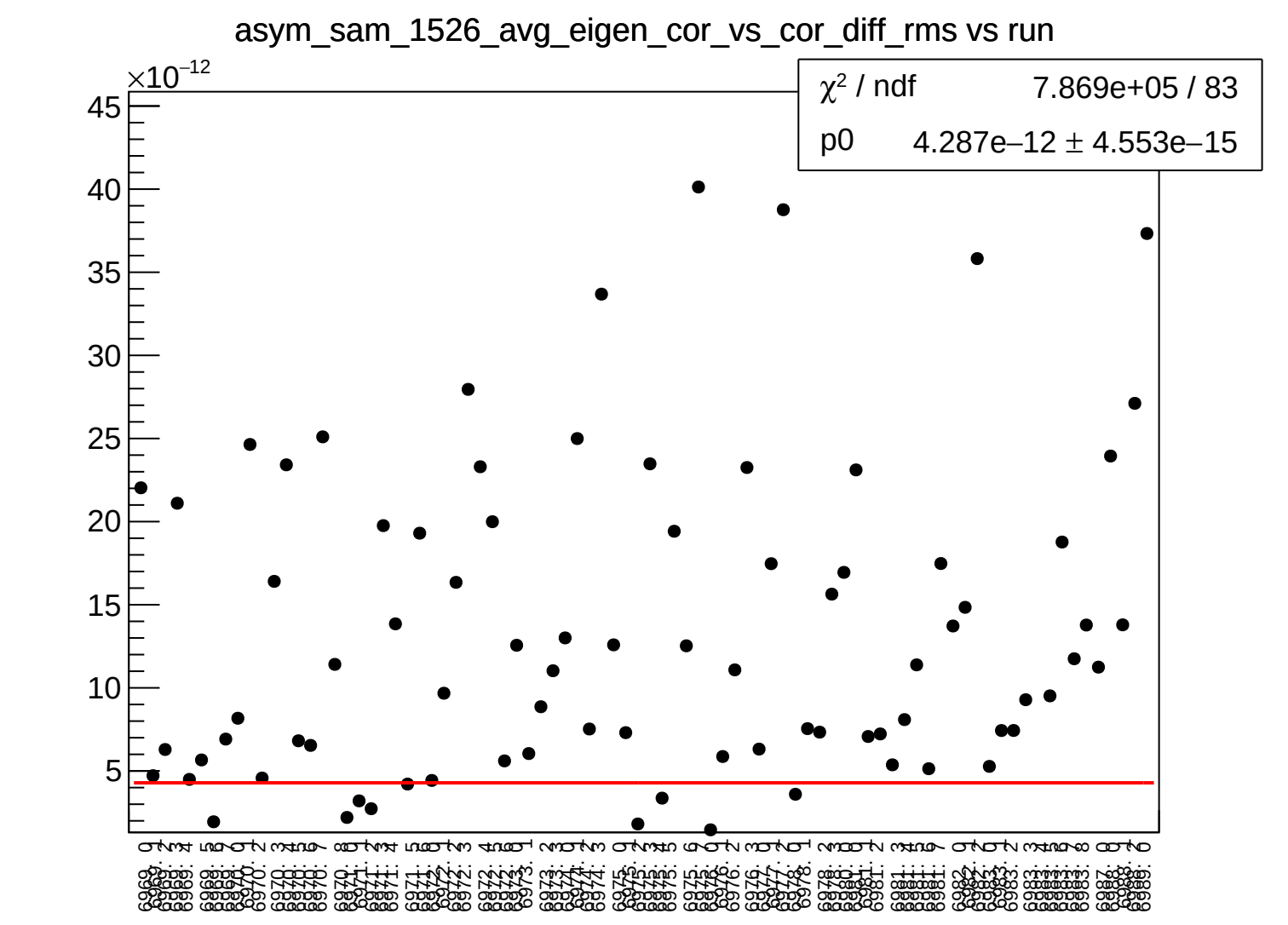

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.8 / 83
p0 0.0634 ± 0.03576
pull
Entries 84
Mean −50.04
Std Dev 0

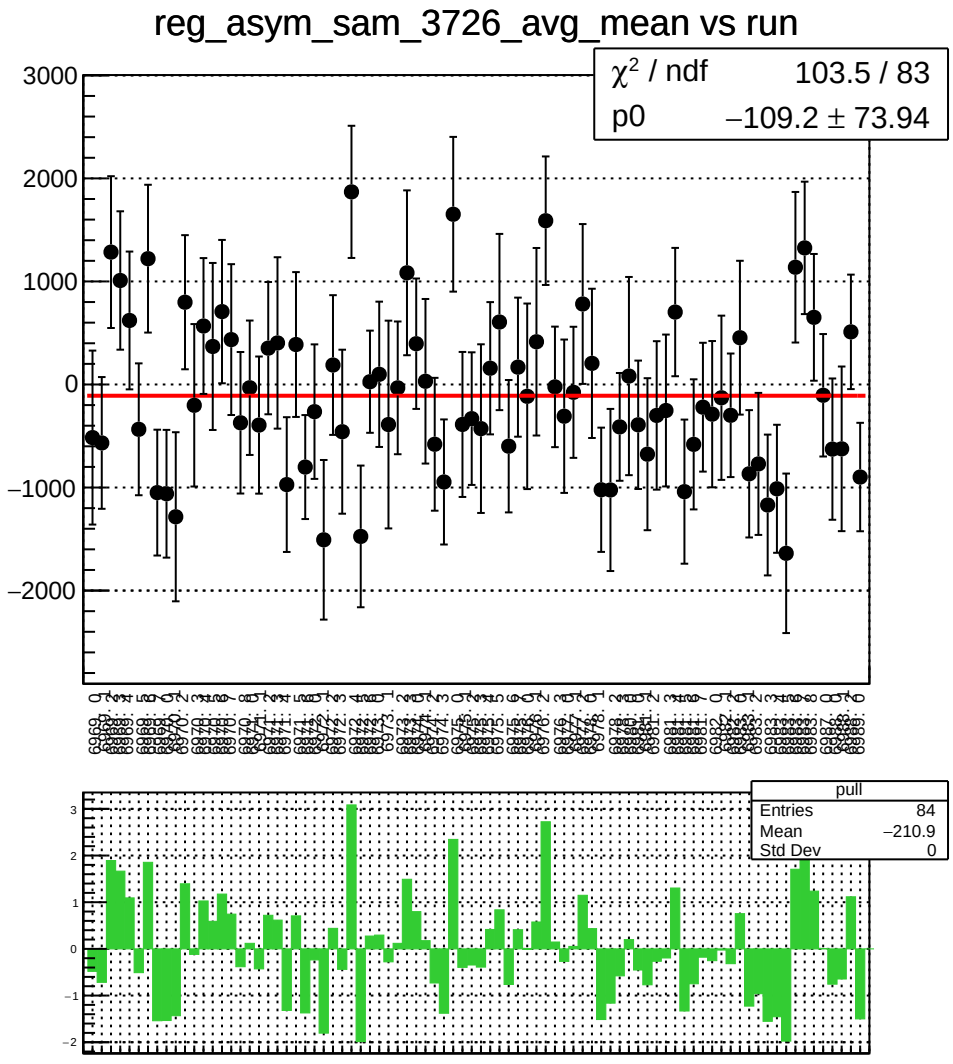

pull1D
Entries 84
Mean 0.01798
Std Dev 1.079

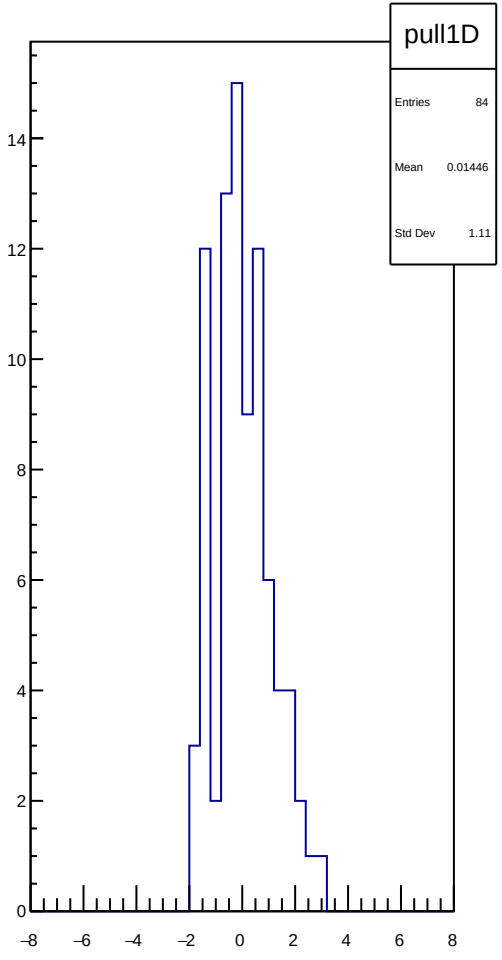

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.695e+04 / 83
p0 32.35 ± 0.02528
70
65
60
55
50
45
40
35
30
25

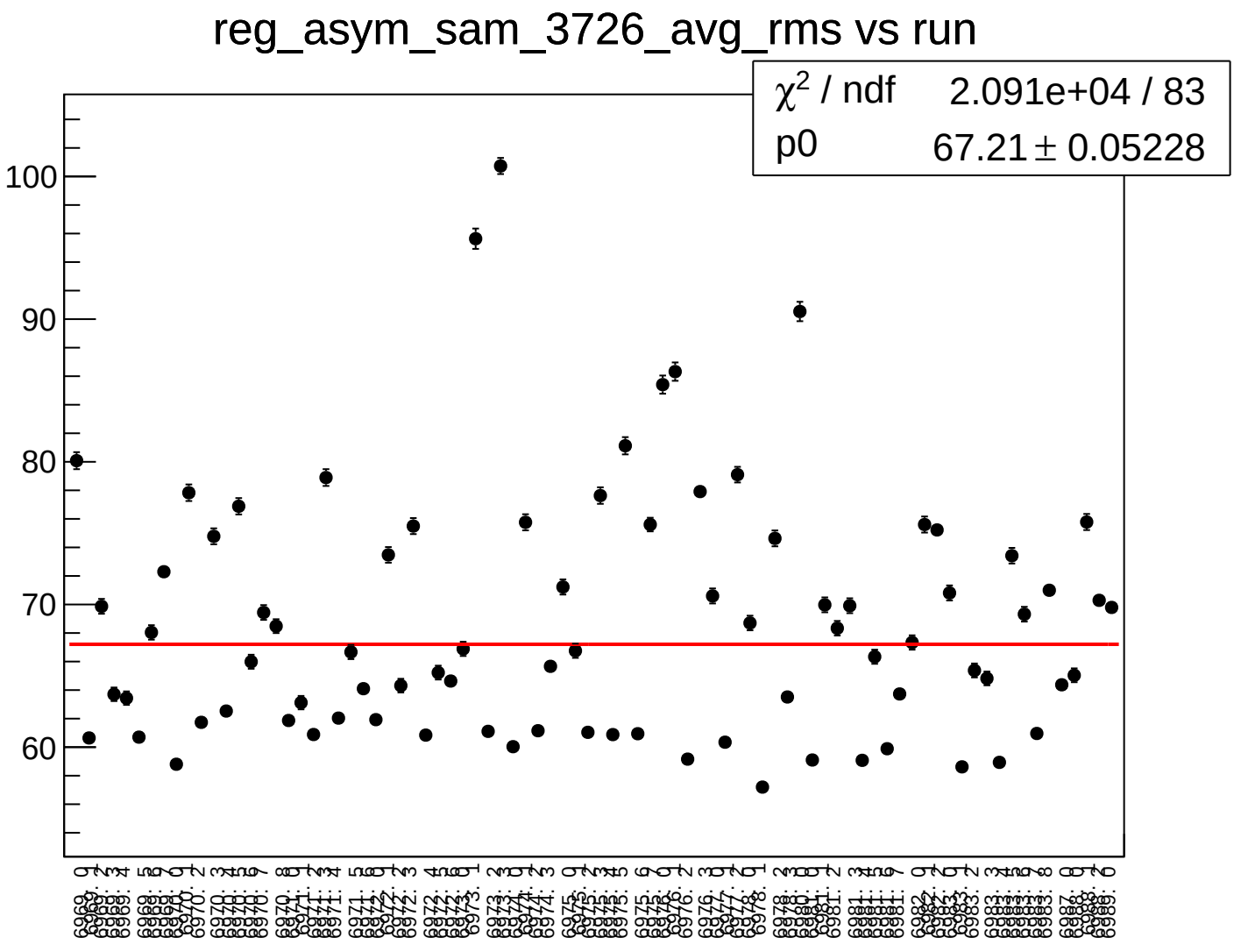

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.71 / 83
p0 3.13e−16 ± 6.438e−15
pull
Entries 84
Mean 5.307
Std Dev 0

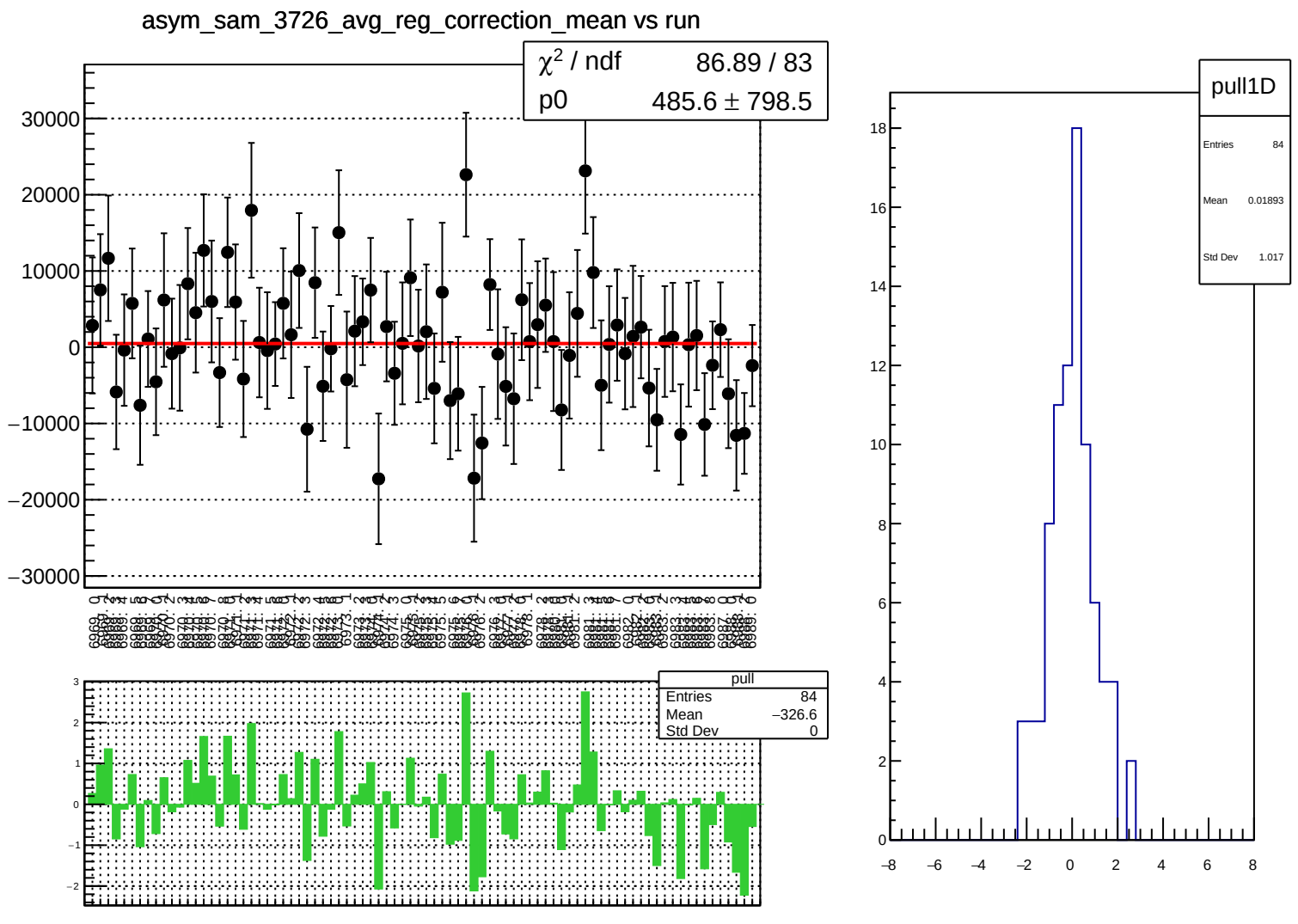

pull1D
Entries 84
Mean 0.03312
Std Dev 1.039

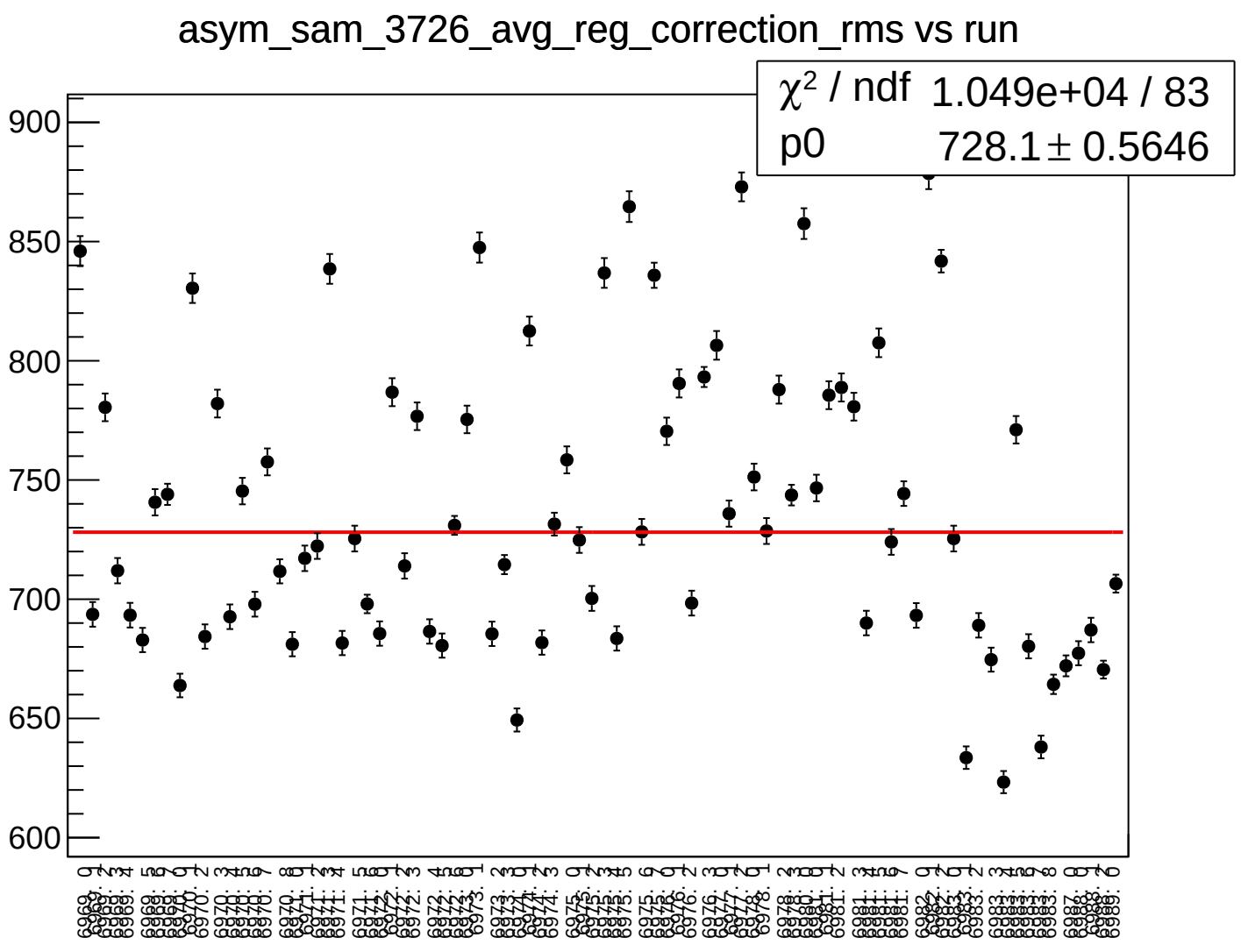

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.869e+05 / 83
p0 4.287e−12 ± 4.553e−15
45
40
35
30
25
20
15
10
5

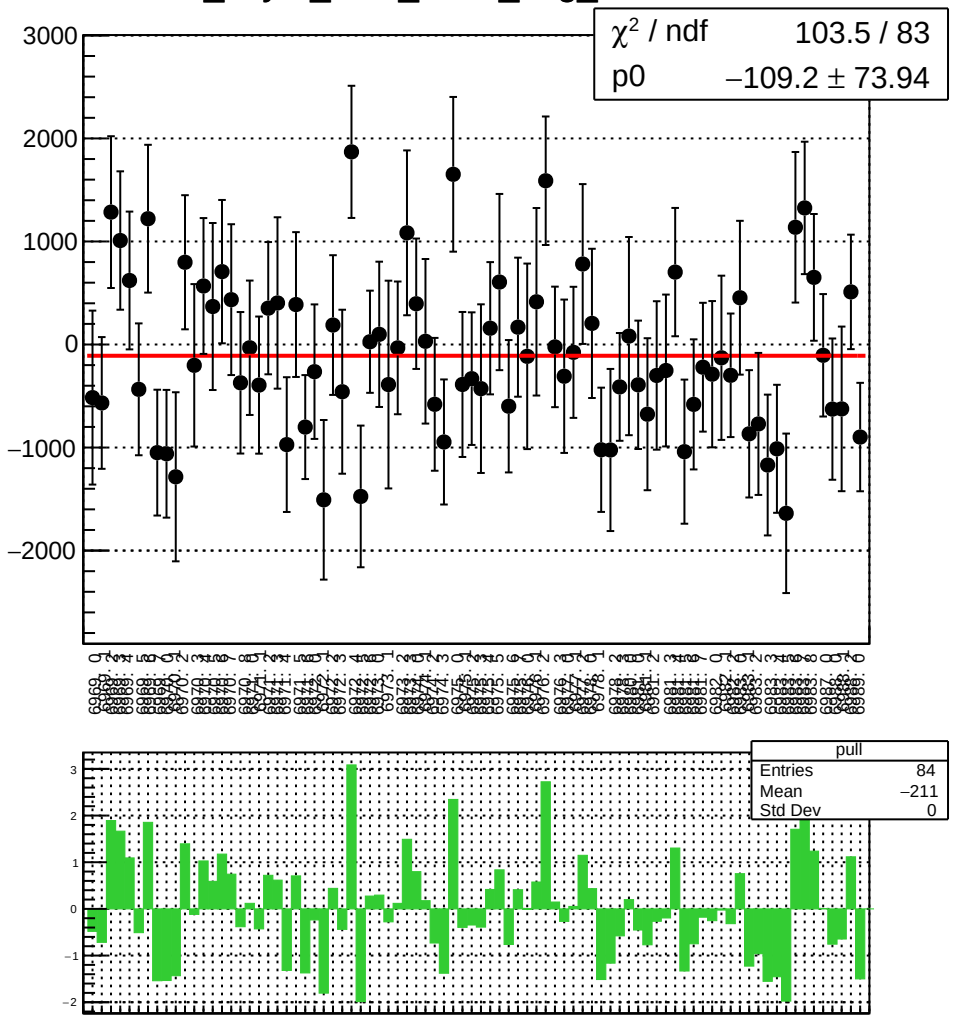

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 103.5 / 83
p0 −109.2 ± 73.94
pull
Entries 84
Mean −210.9
Std Dev 0

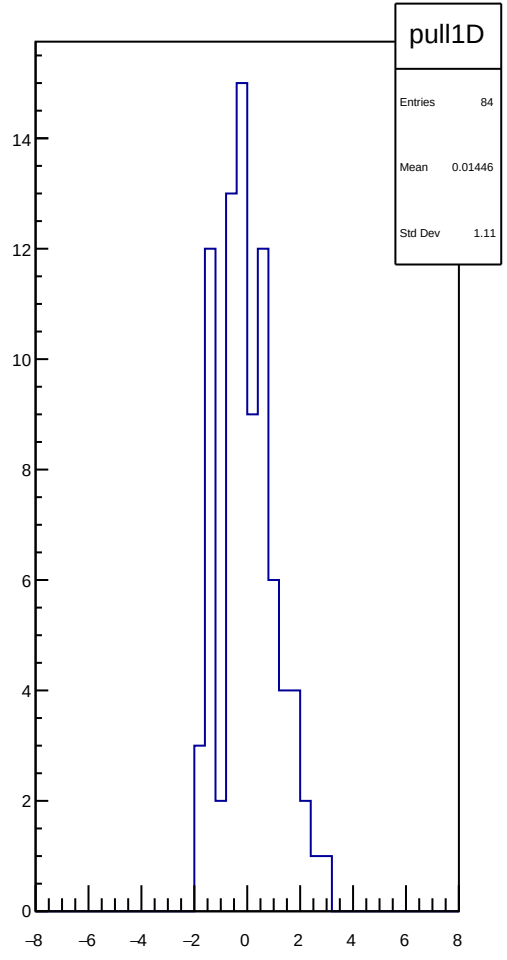

pull1D
Entries 84
Mean 0.01446
Std Dev 1.11

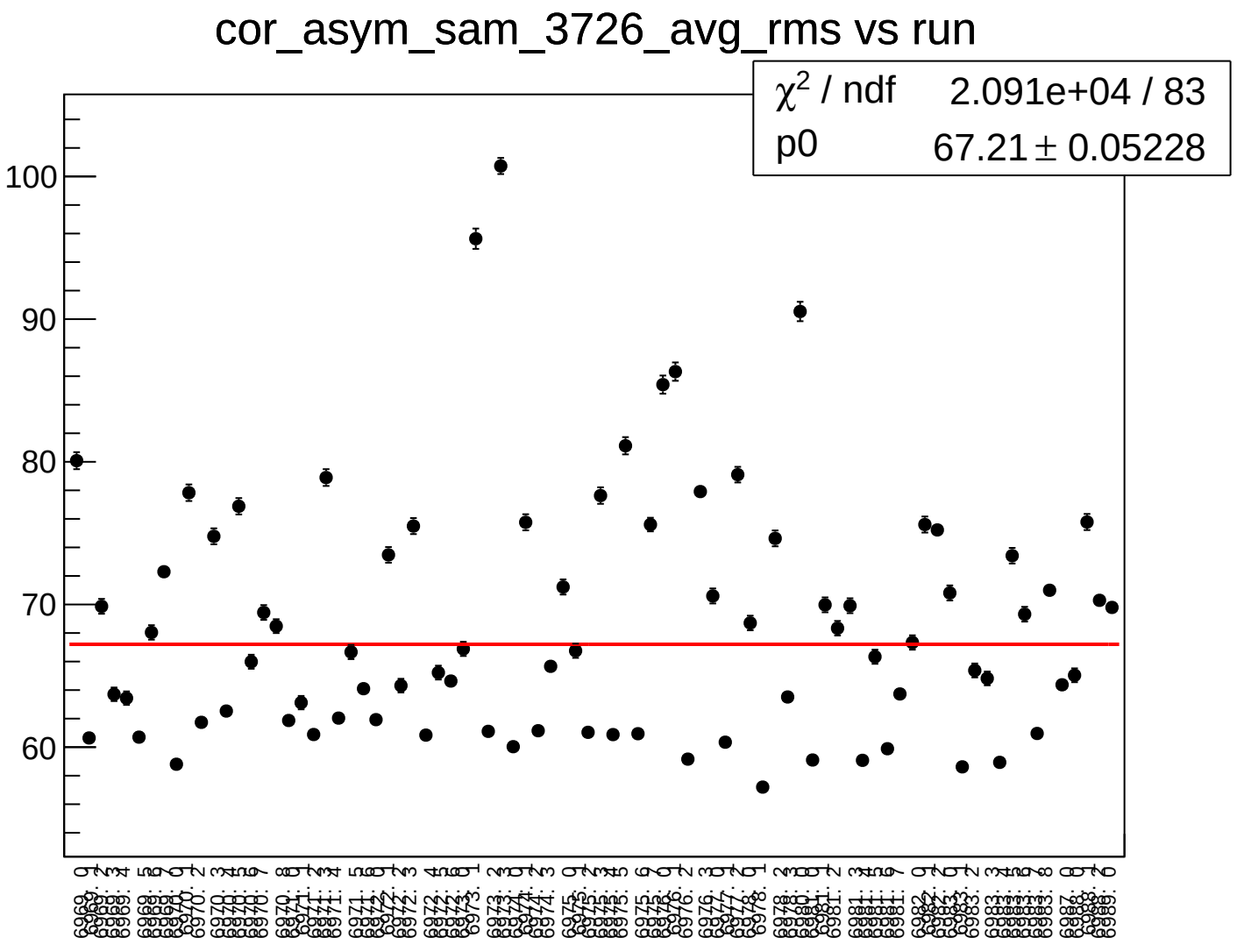

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 2.091e+04 / 83
p0 67.21 ± 0.05228
100
90
80
70
60

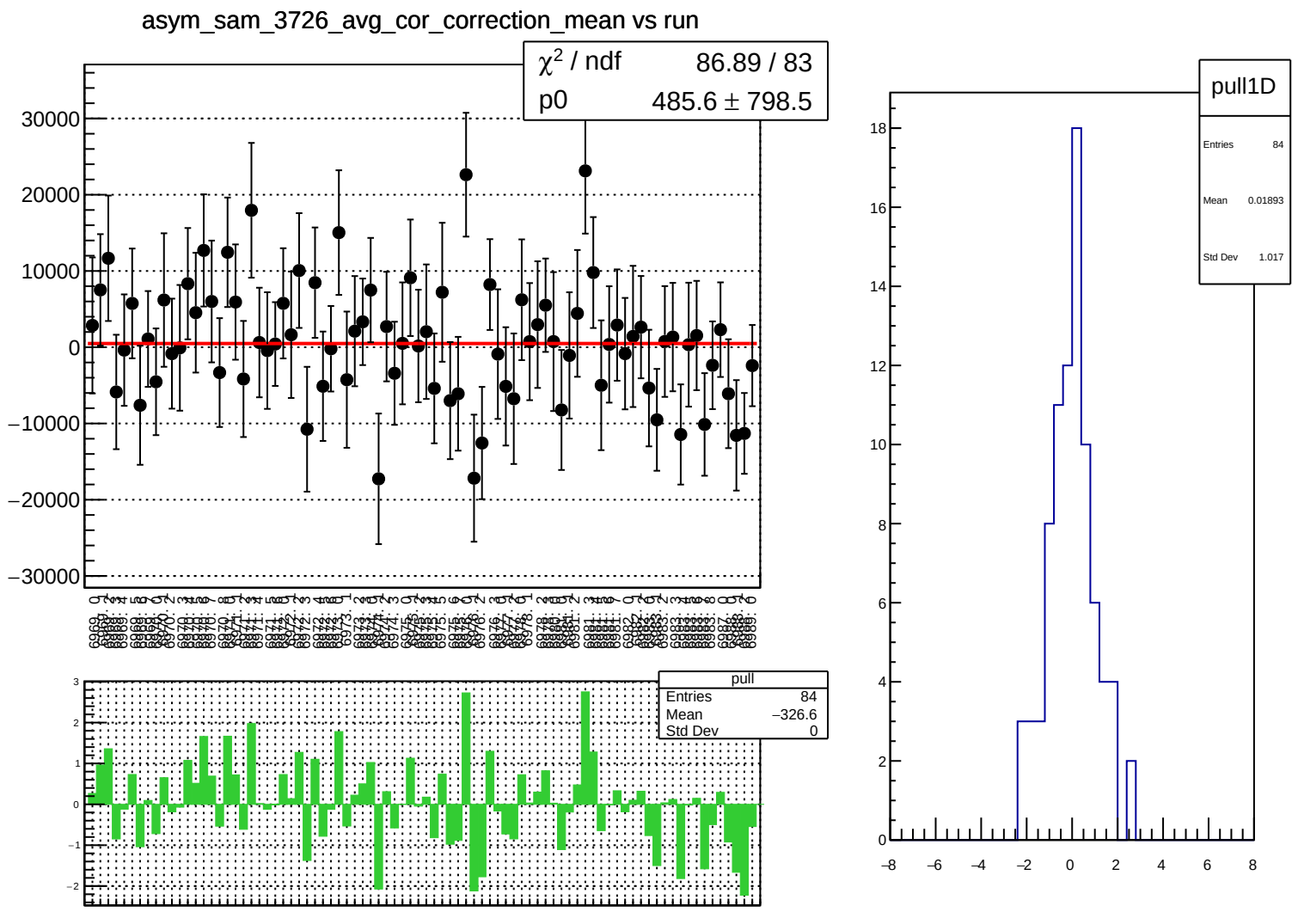

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 86.89 / 83
p0 485.6 ± 798.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −326.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.01893
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

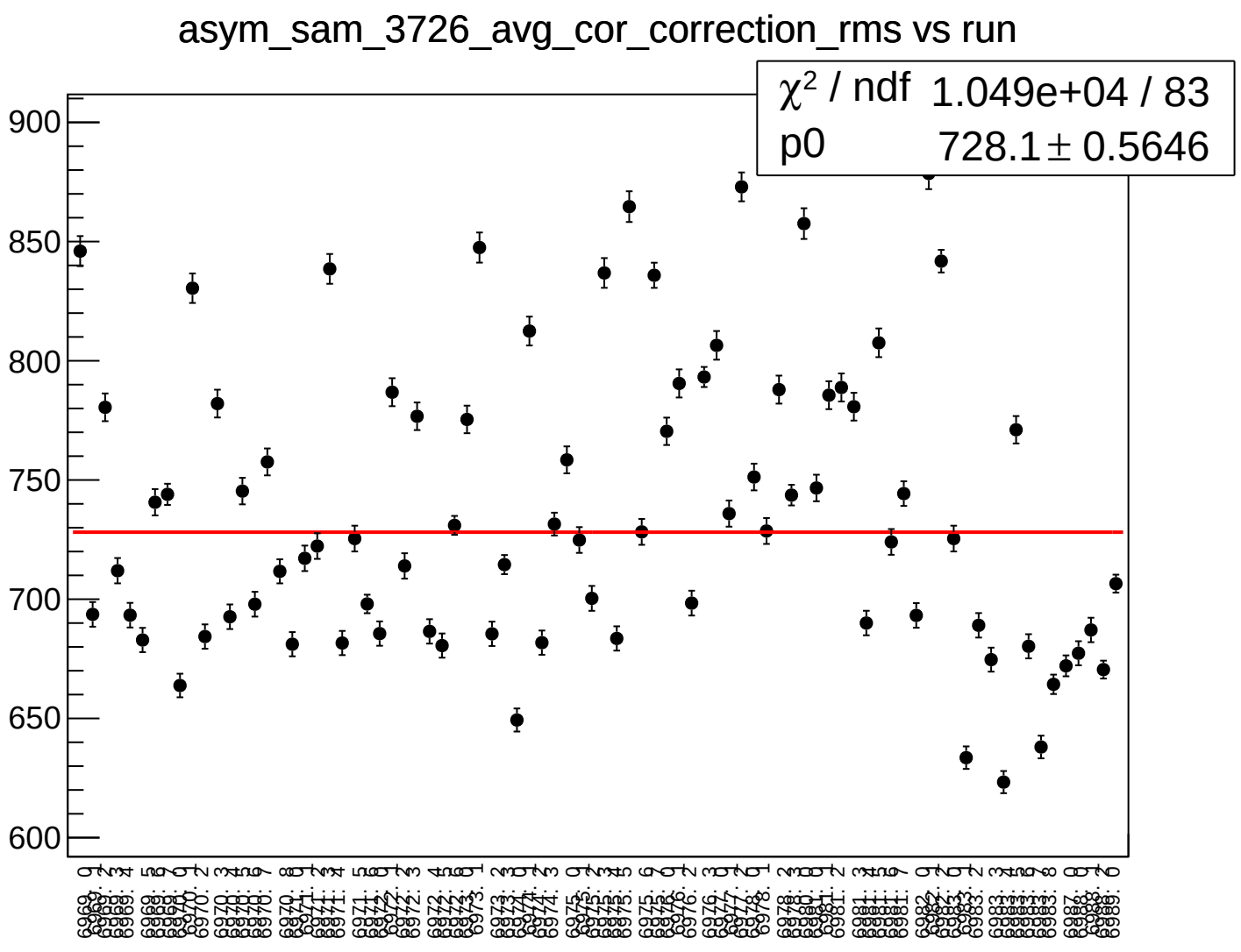

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.049e+04 / 83
p0 728.1 ± 0.5646
900
850
800
750
700
650
600

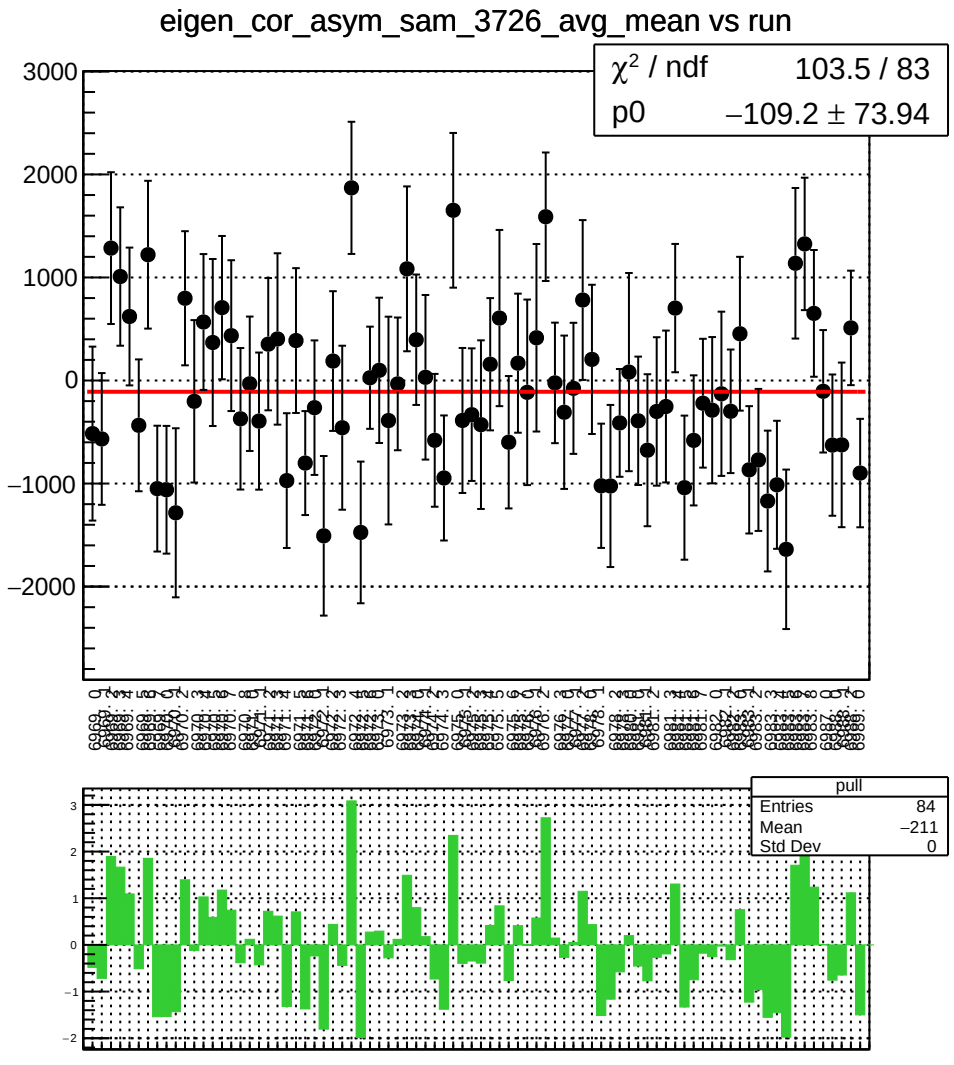

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 103.5 / 83
p0 −109.2 ± 73.94
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −211
Std Dev 0
3
2
1
0
−1
−2

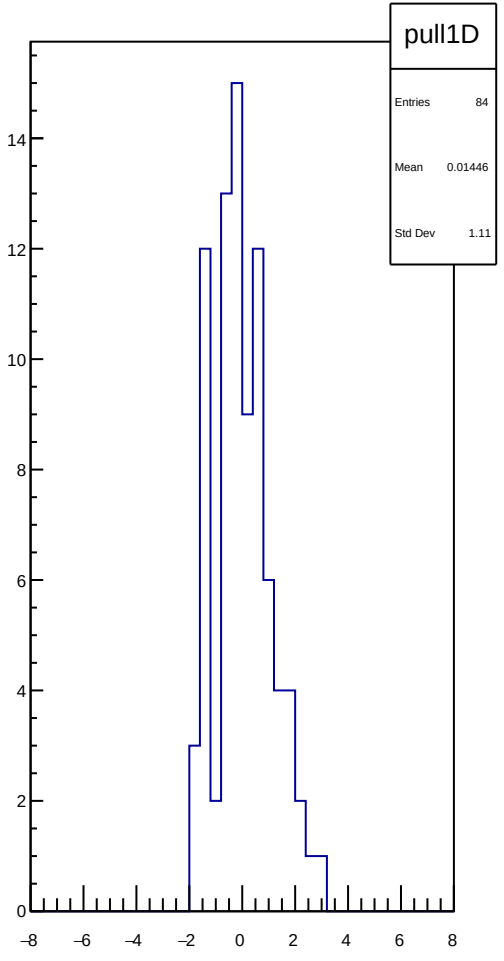

pull1D
Entries 84
Mean 0.01446
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

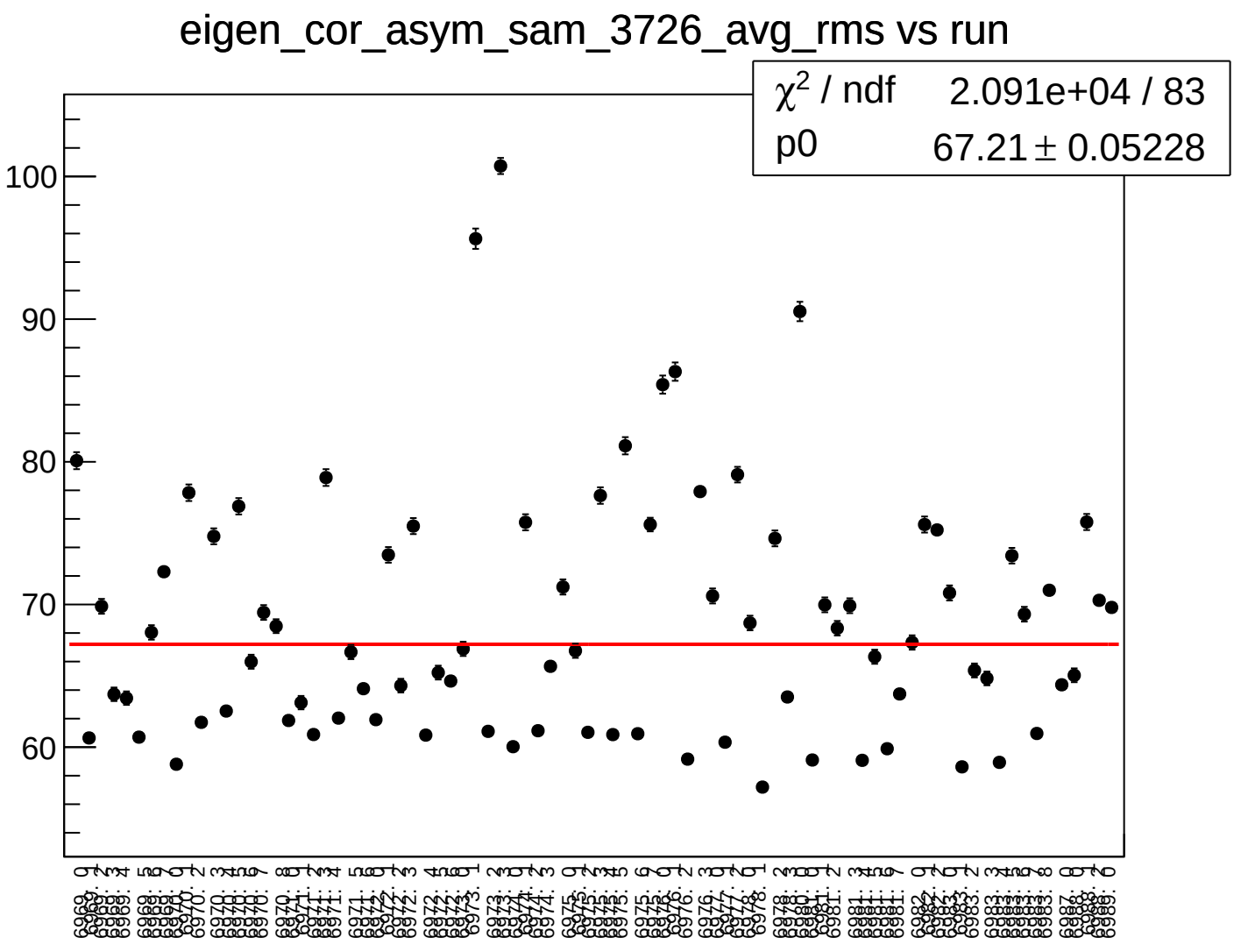

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 2.091e+04 / 83
p0 67.21 ± 0.05228
100
90
80
70
60

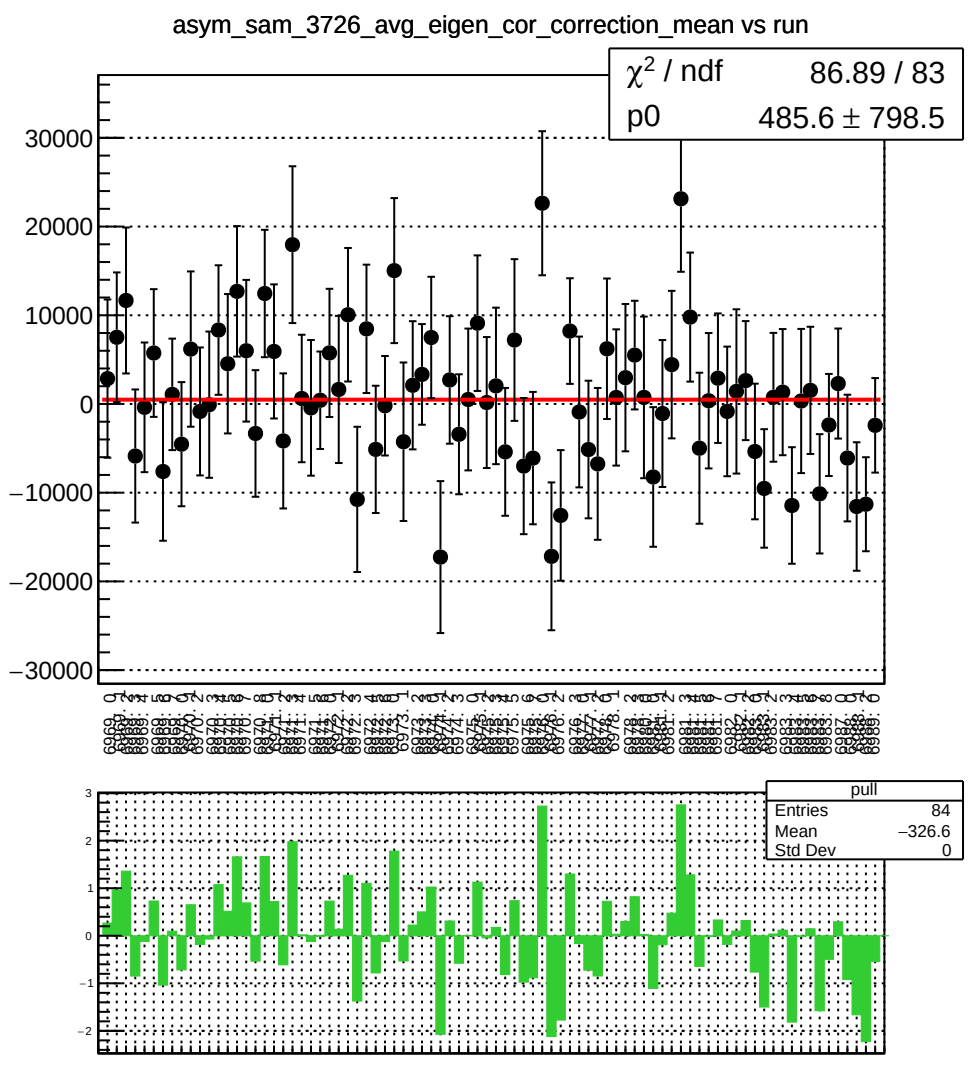

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 86.89 / 83
p0 485.6 ± 798.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −326.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.01893
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

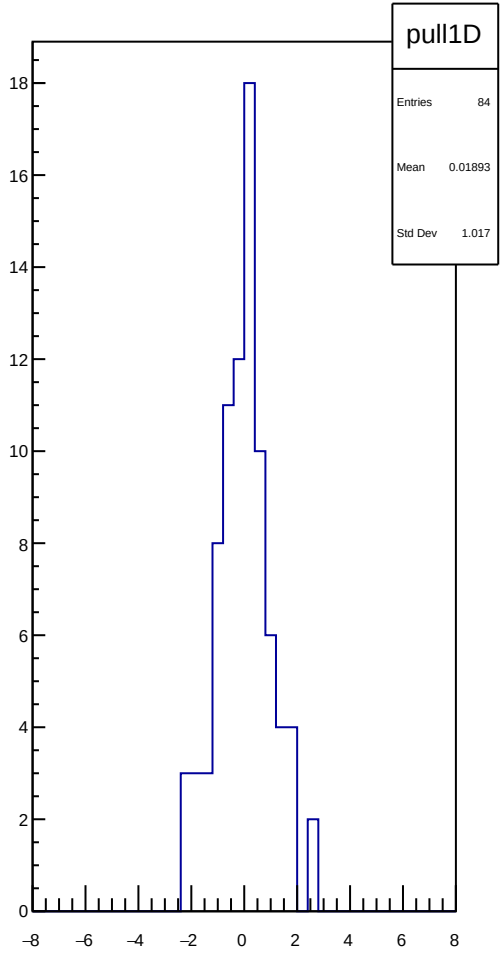

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.049e+04 / 83
p0 728.1 ± 0.5646
900
850
800
750
700
650
600

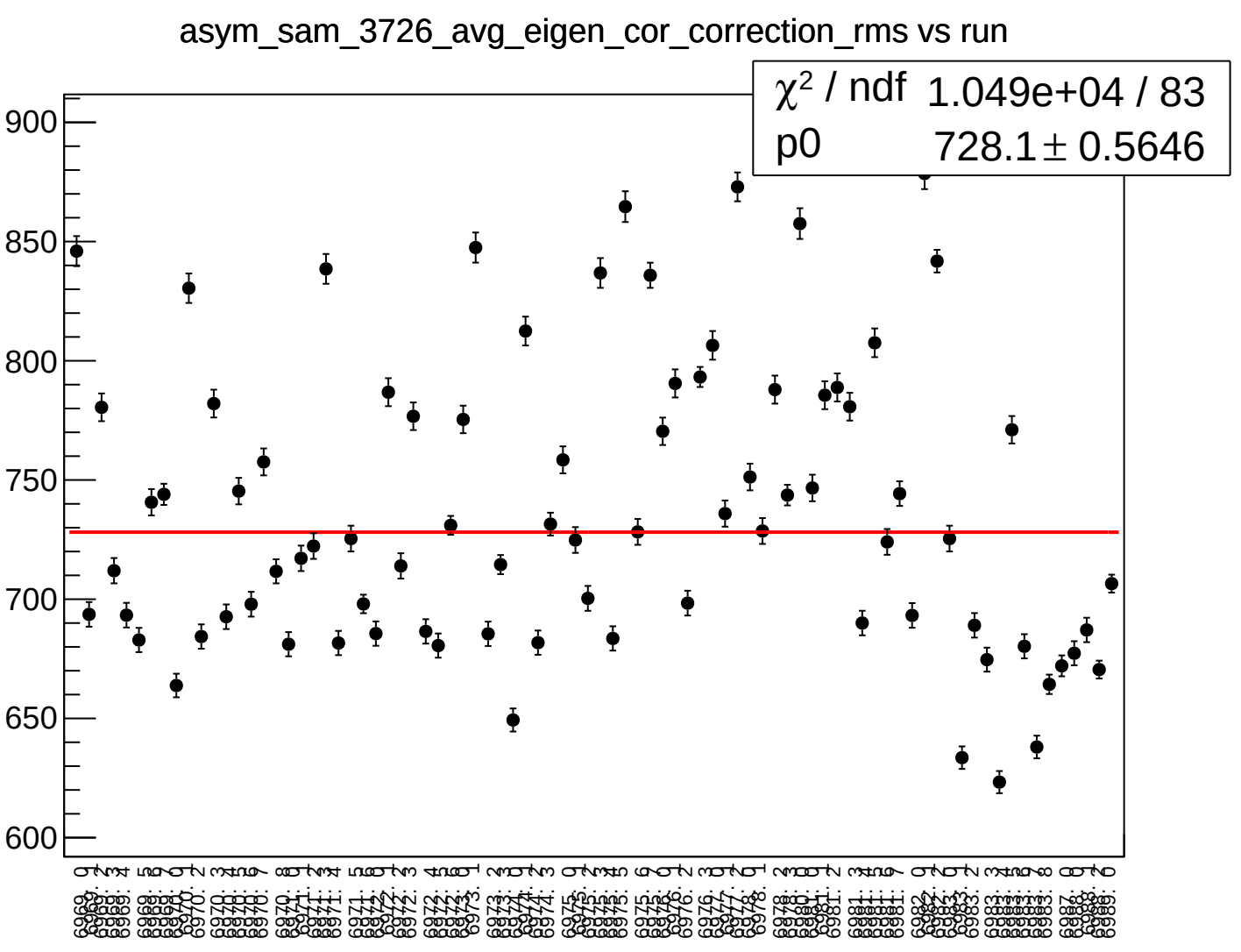

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 103.5 / 83
p0 −109.2 ± 73.94
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −211
Std Dev 0

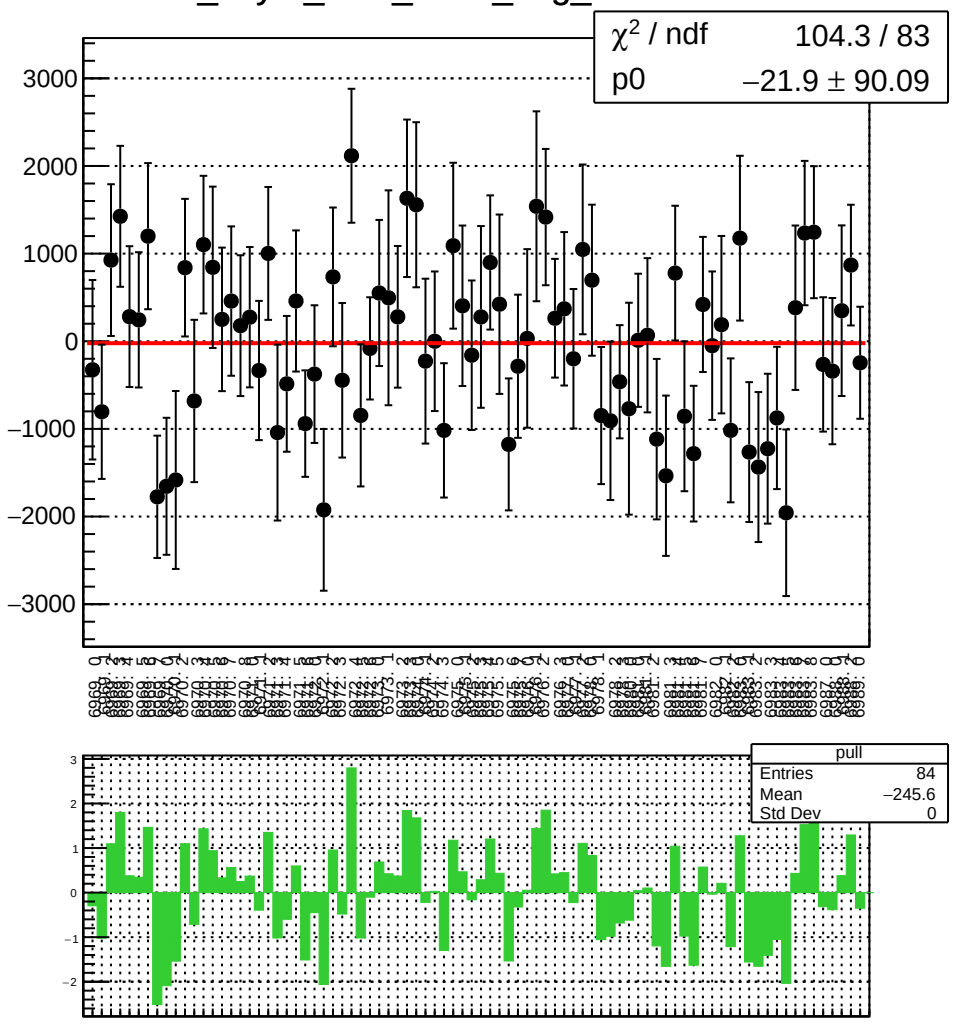

pull1D
Entries 84
Mean 0.01446
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

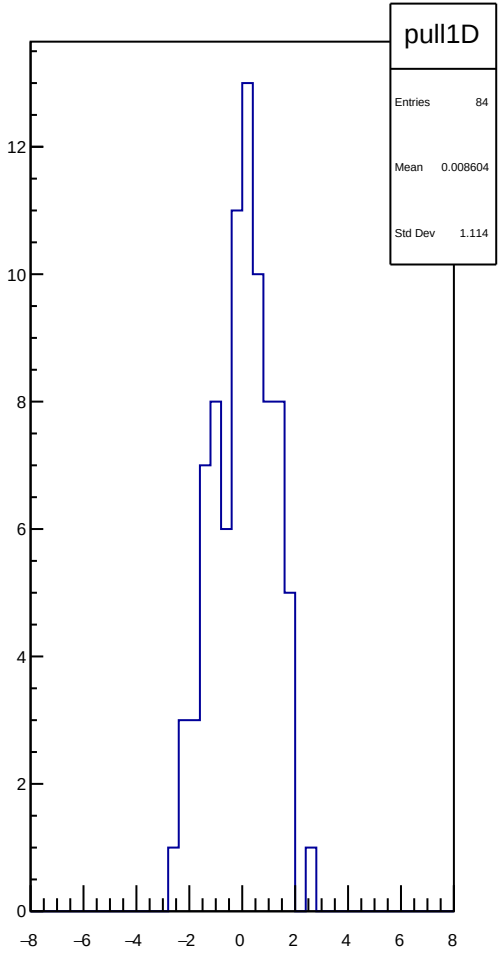

eigen_cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 2.091e+04 / 83
p0 67.21 ± 0.05228
100
90
80
70
60

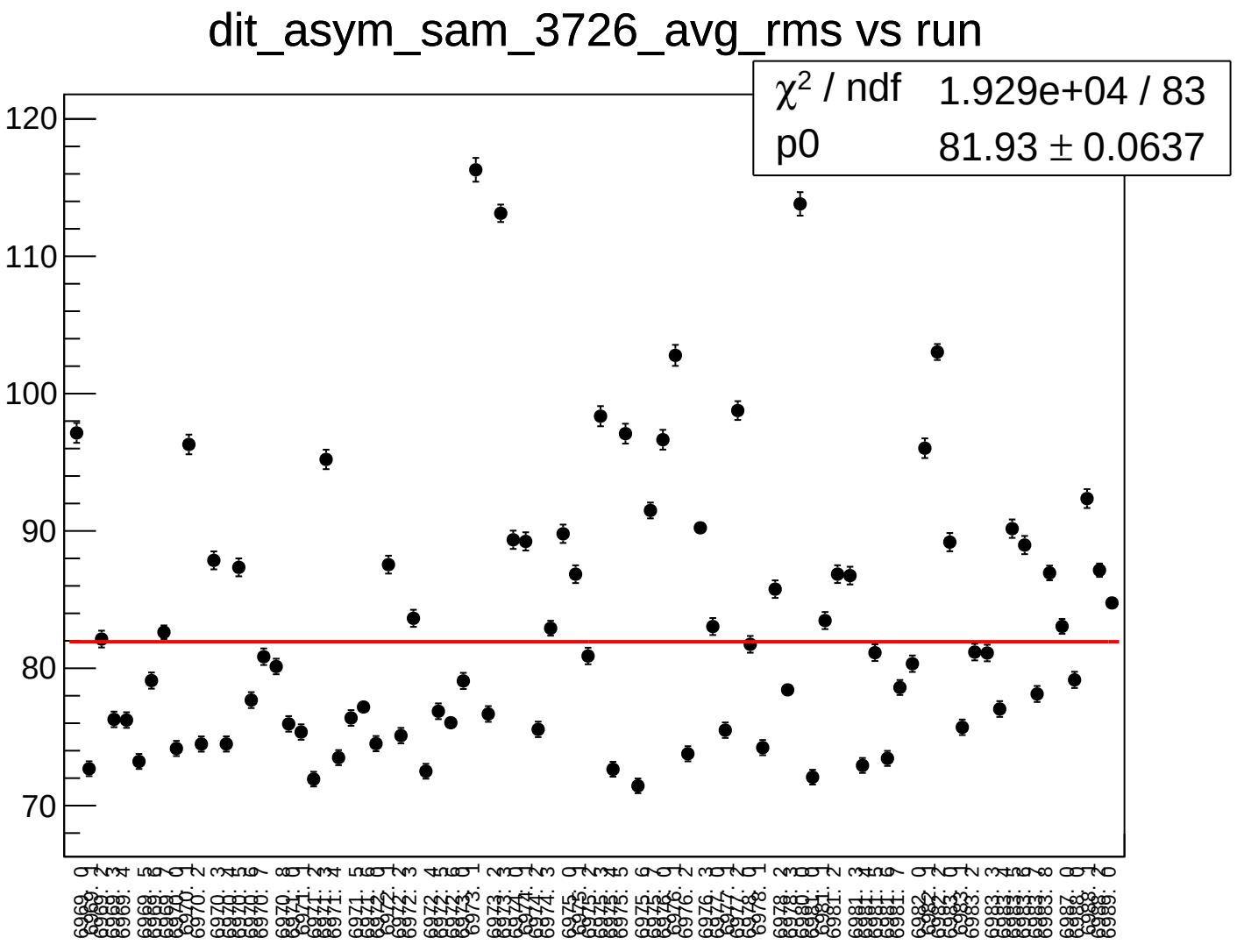

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.89 / 83
p0 485.6 ± 798.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −326.6
Std Dev 0
3
2
1
0
−1
−2

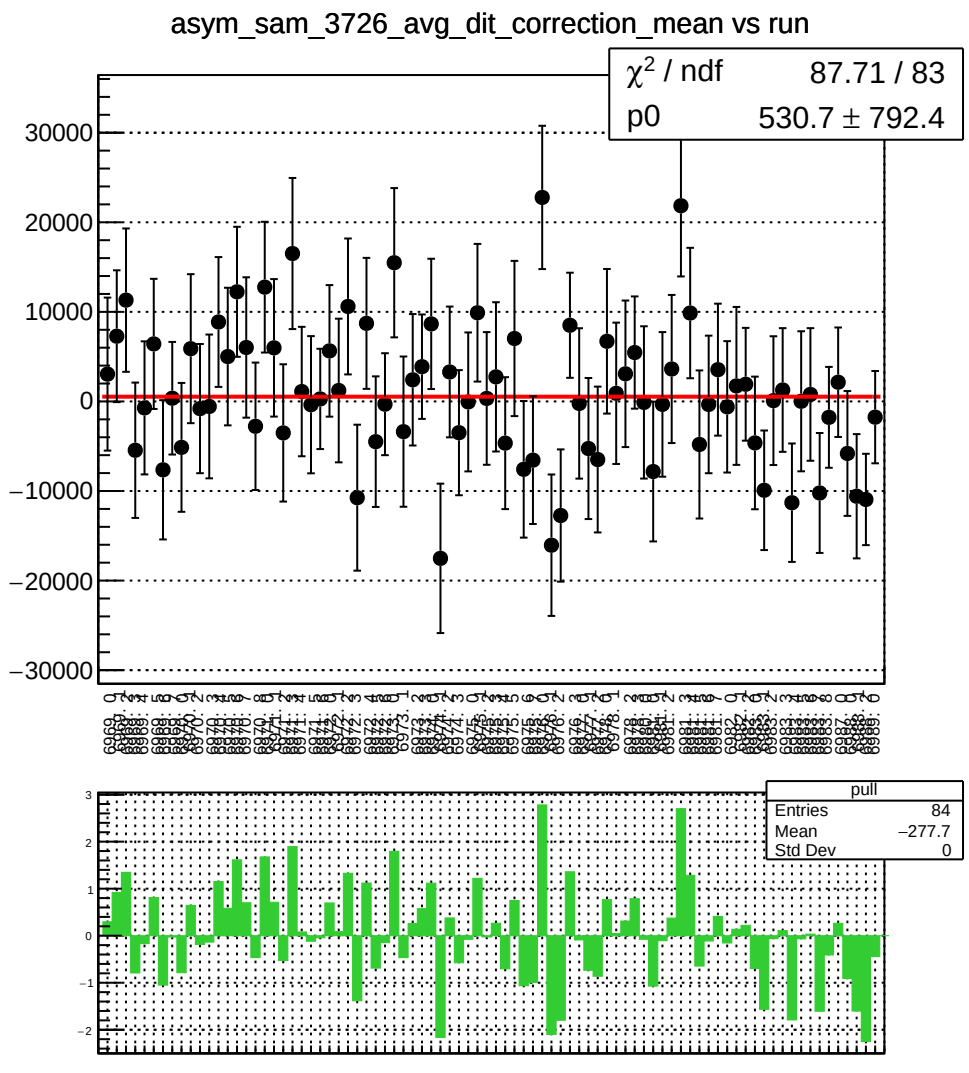

pull1D
Entries 84
Mean 0.01893
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

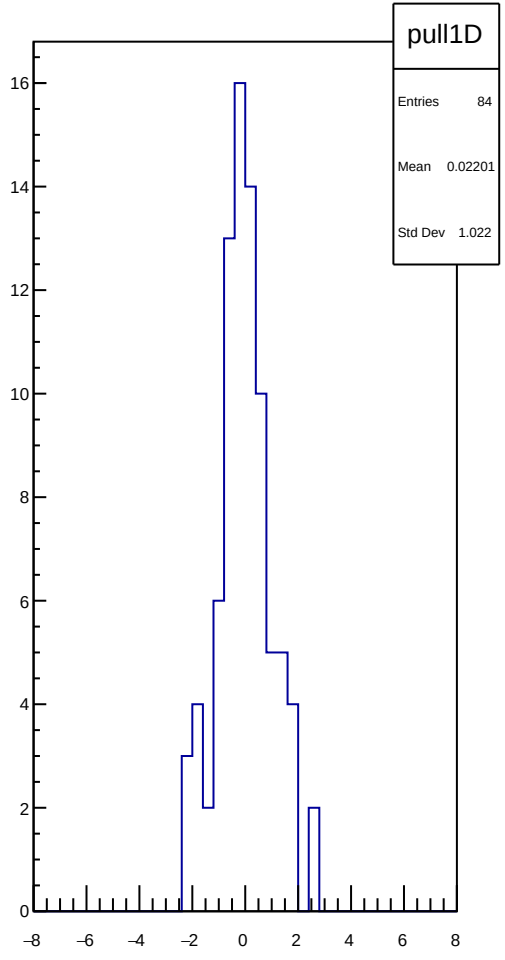

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.049e+04 / 83
p0 728.1 ± 0.5646
900
850
800
750
700
650
600

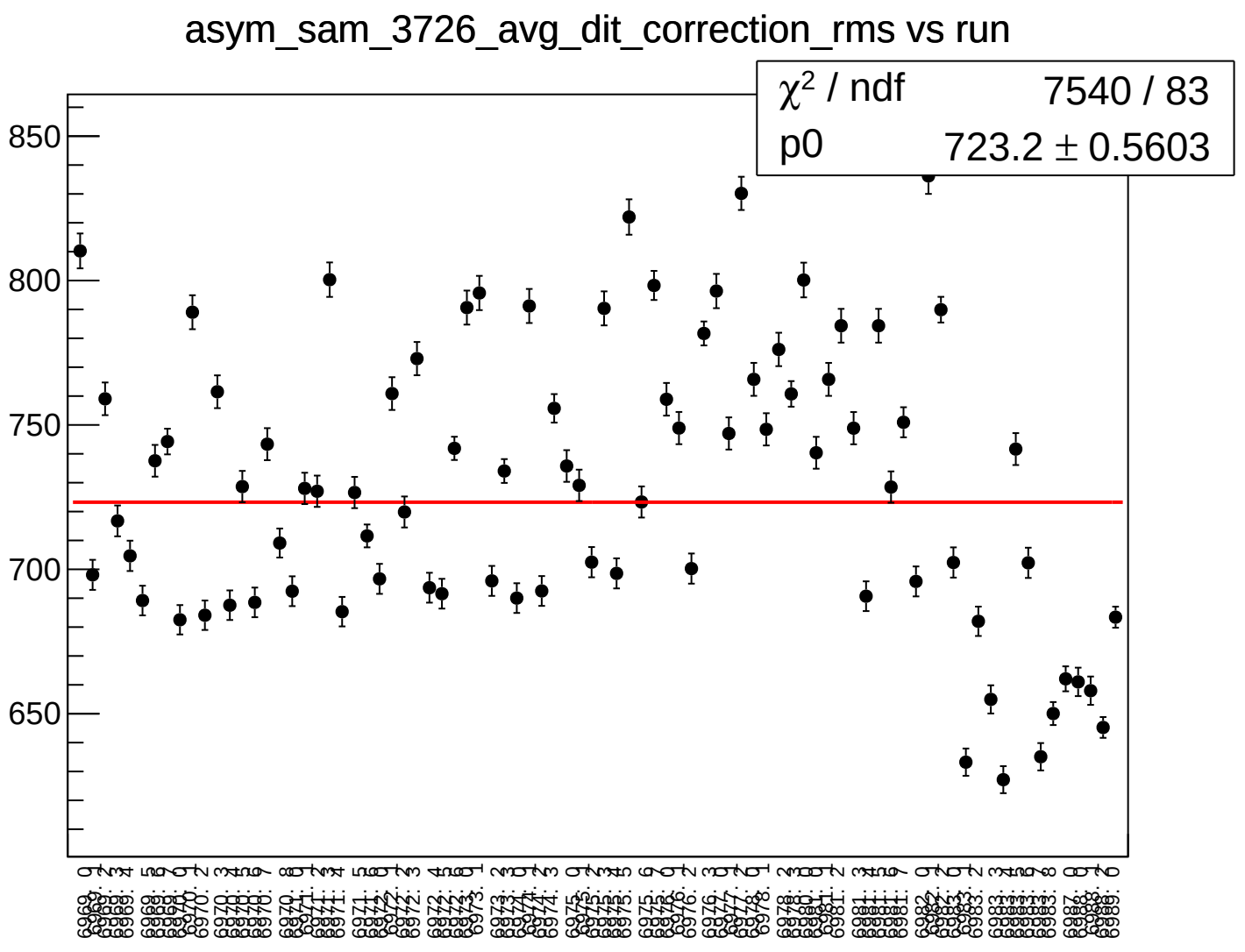

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 104.3 / 83
p0 −21.9 ± 90.09
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −245.6
Std Dev 0
3
2
1
0
−1
−2

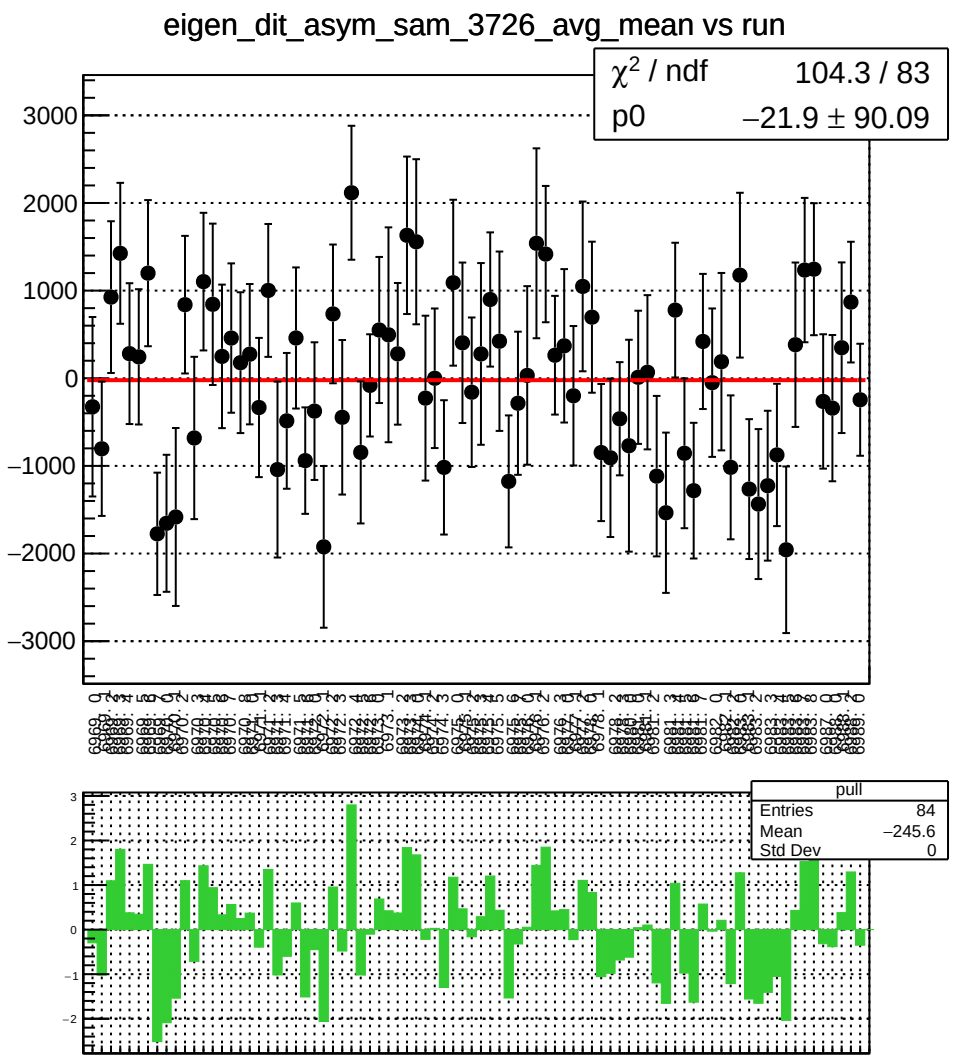

pull1D
Entries 84
Mean 0.008604
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

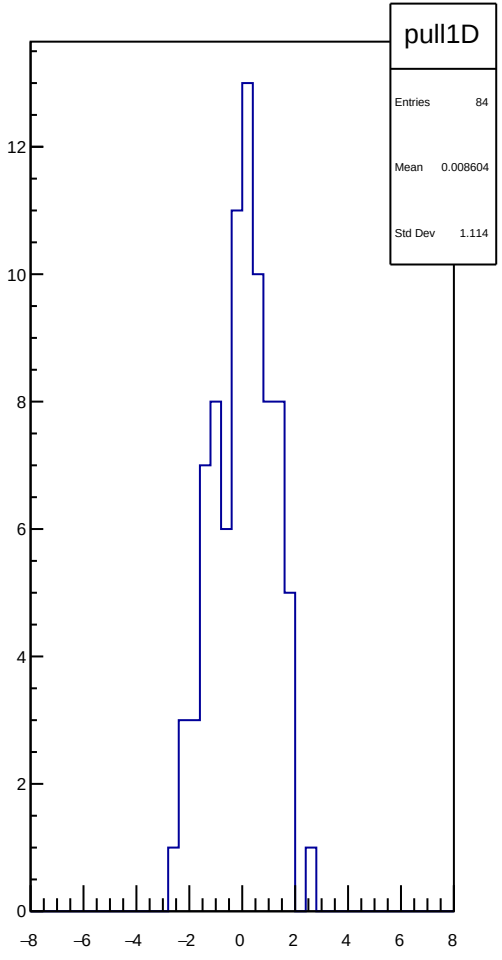

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.929e+04 / 83
p0 81.93 ± 0.0637
120
110
100
90
80
70

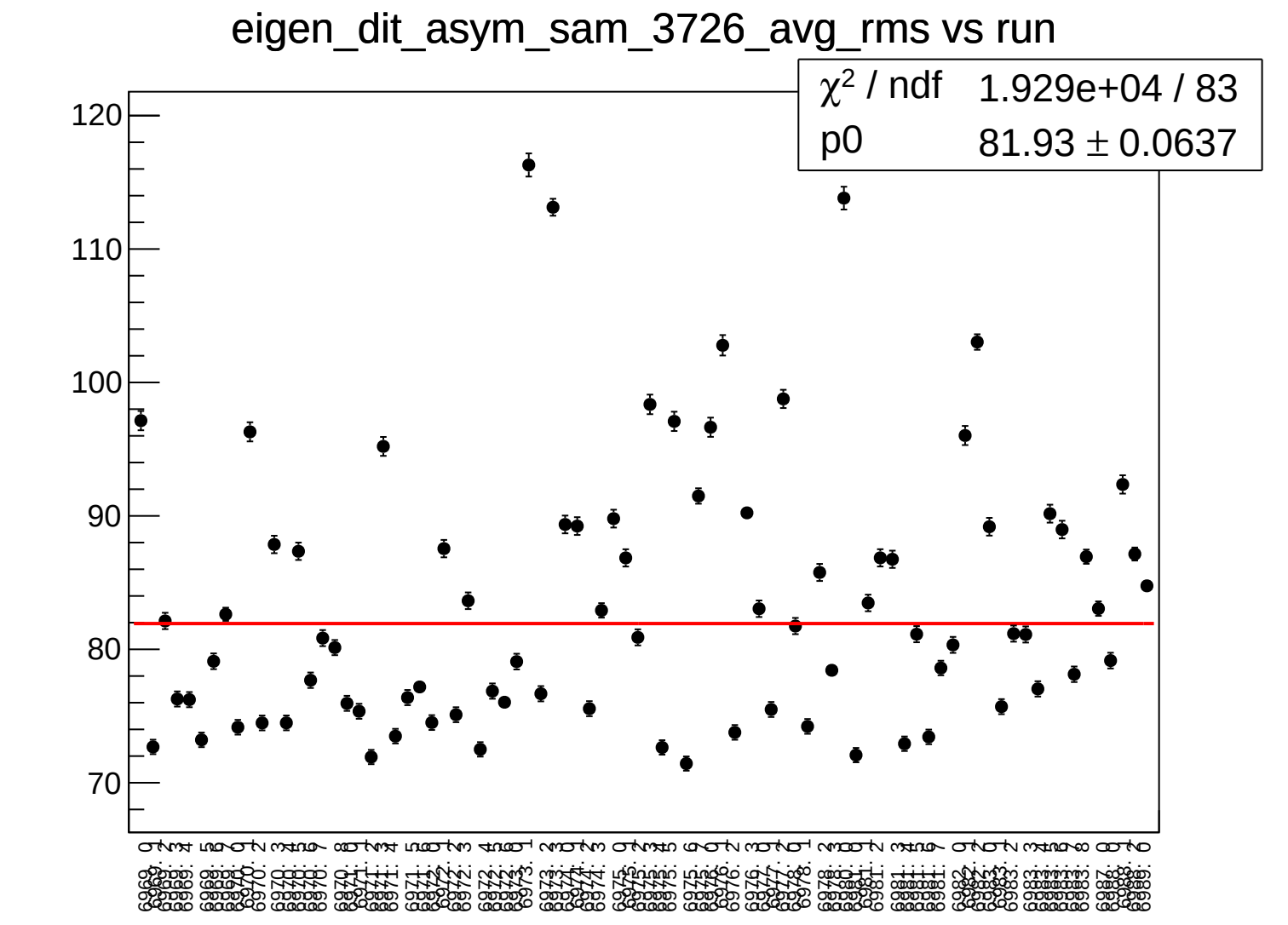

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 87.71 / 83
p0 530.7 ± 792.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −277.7
Std Dev 0
3
2
1
0
−1
−2

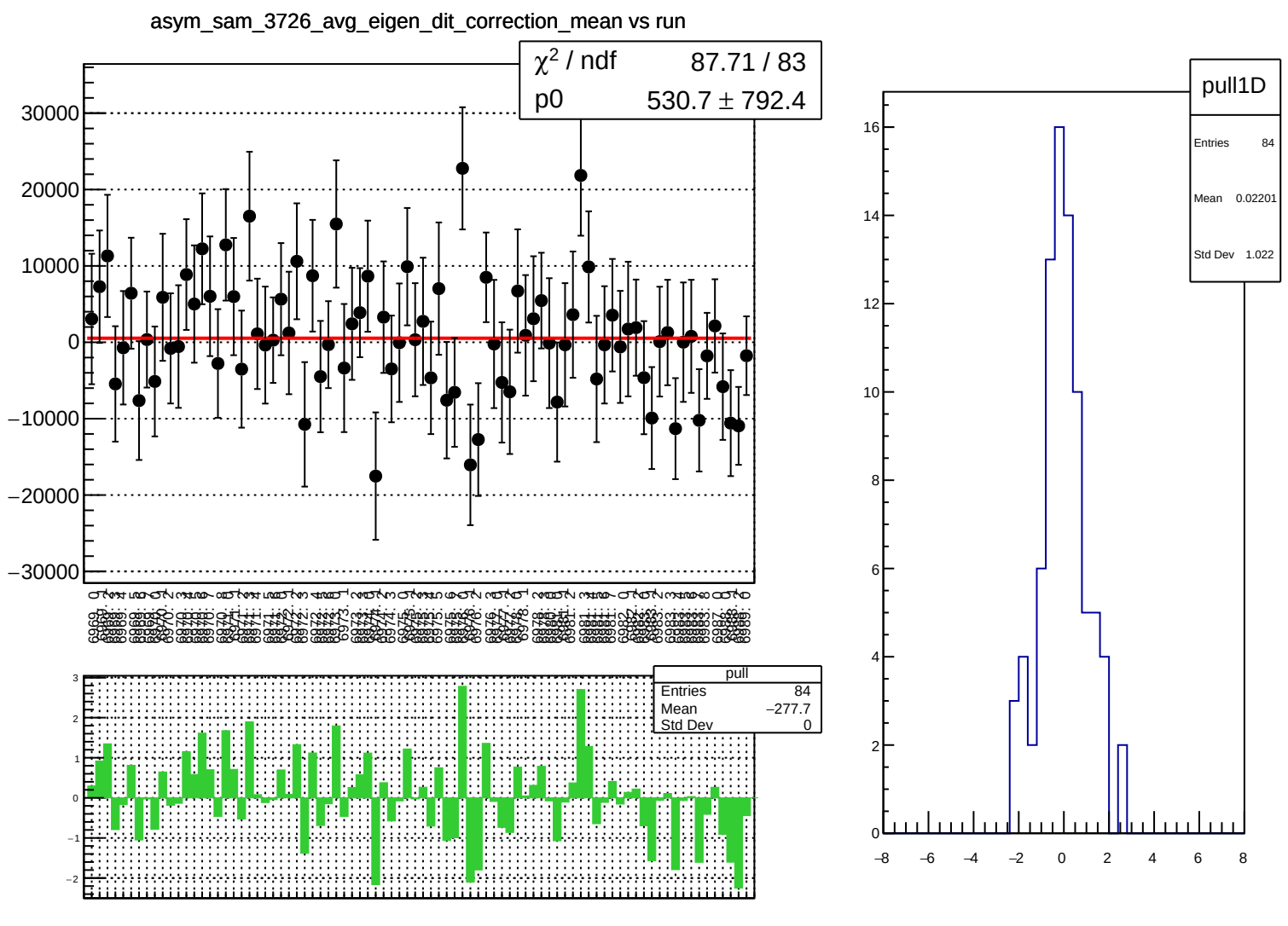

pull1D
Entries 84
Mean 0.02201
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

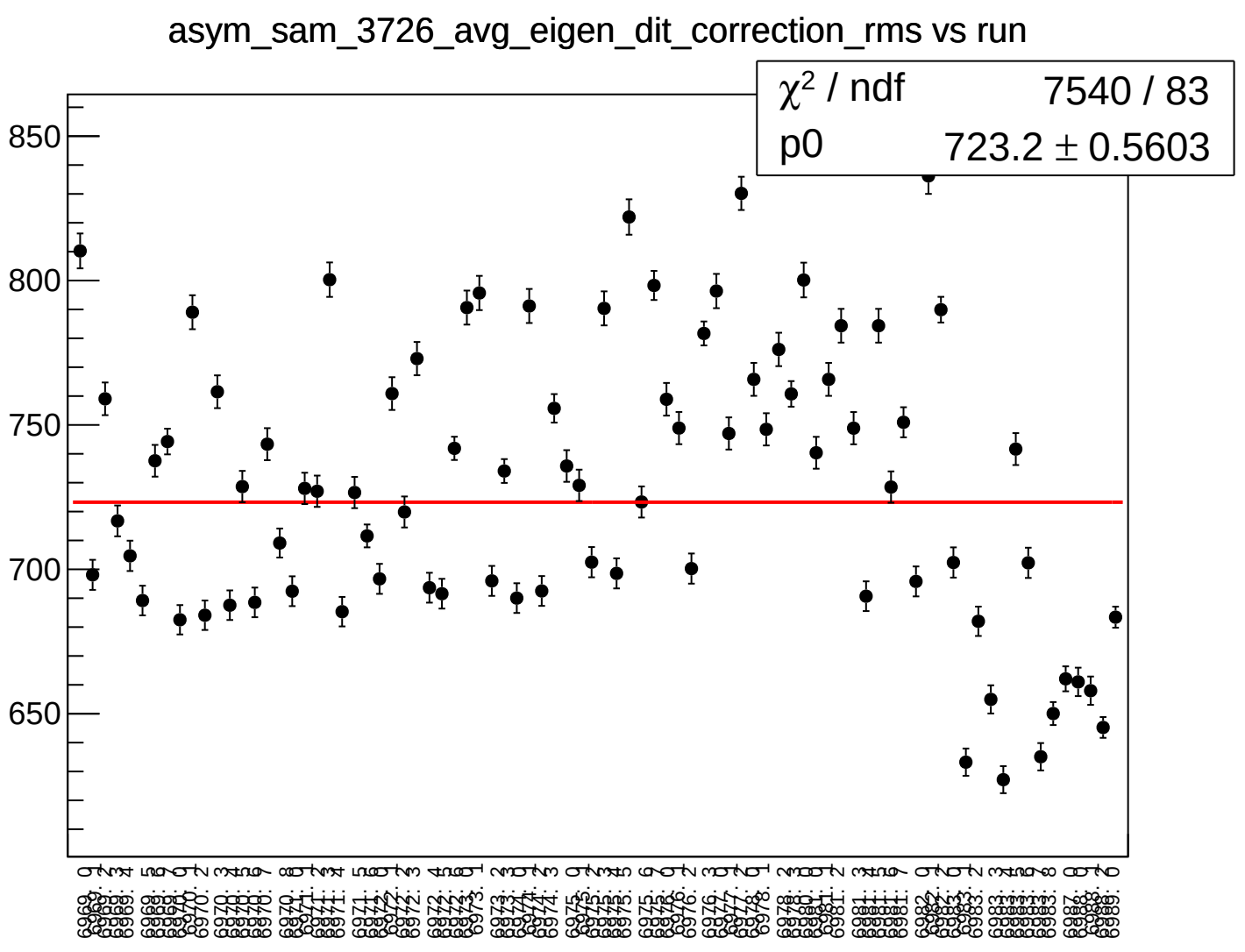

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 7540 / 83
p0 723.2 ± 0.5603
850
800
750
700
650

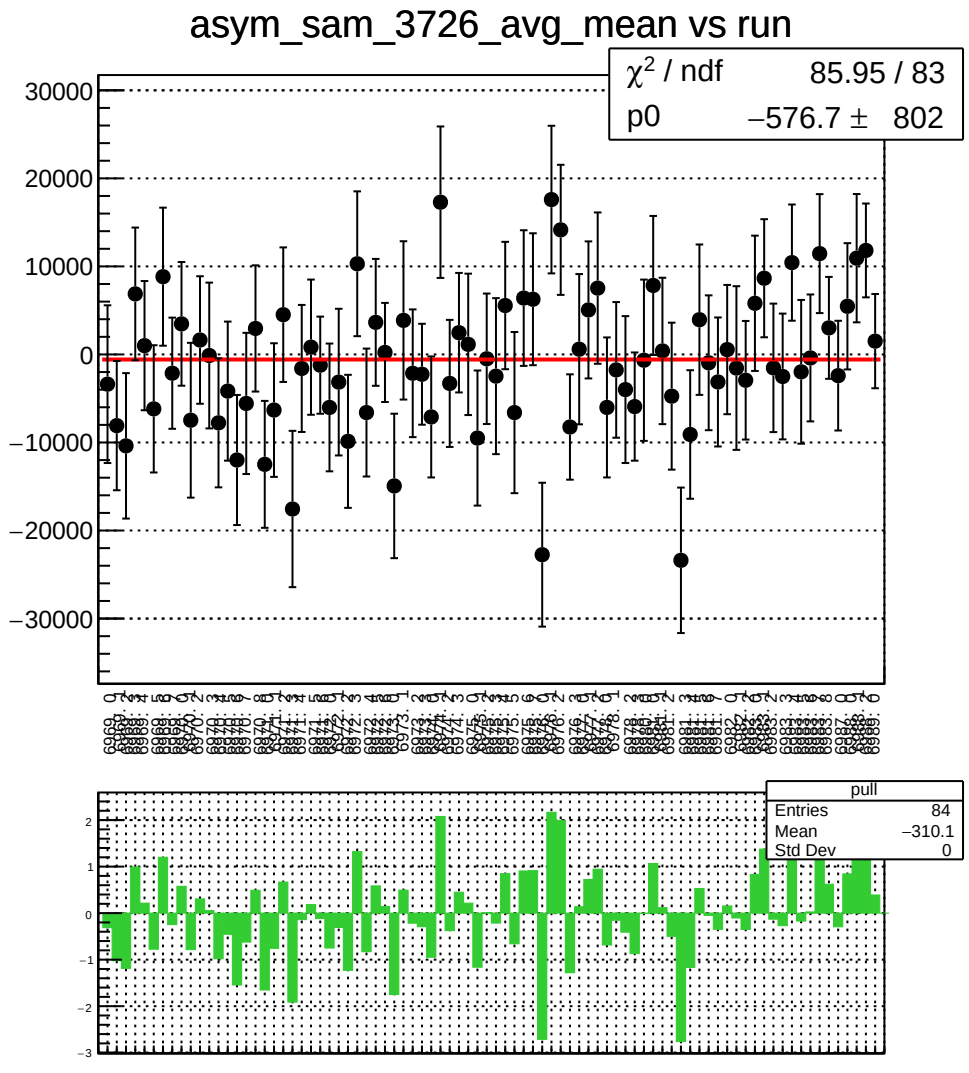

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 104.3 / 83
p0 −21.9 ± 90.09
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −245.6
Std Dev 0
3
2
1
0
−1
−2

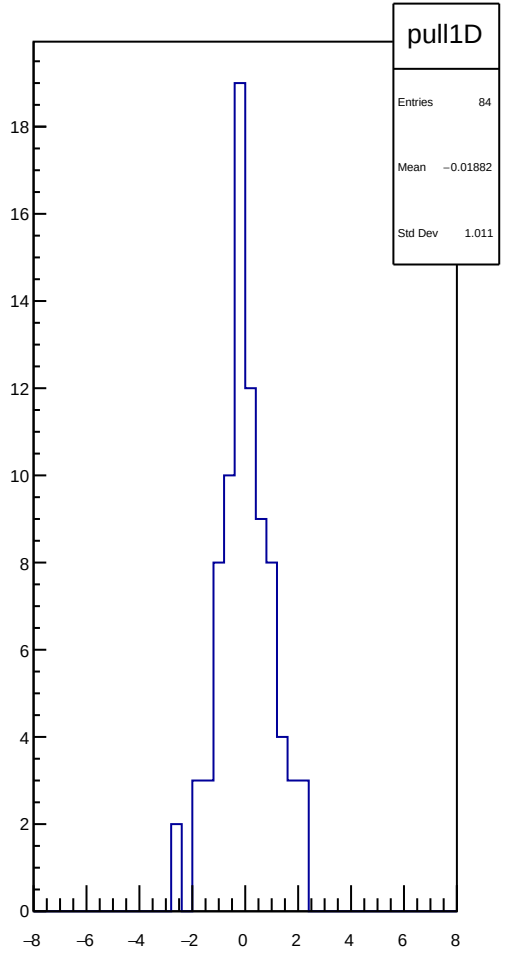

pull1D
Entries 84
Mean 0.008604
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

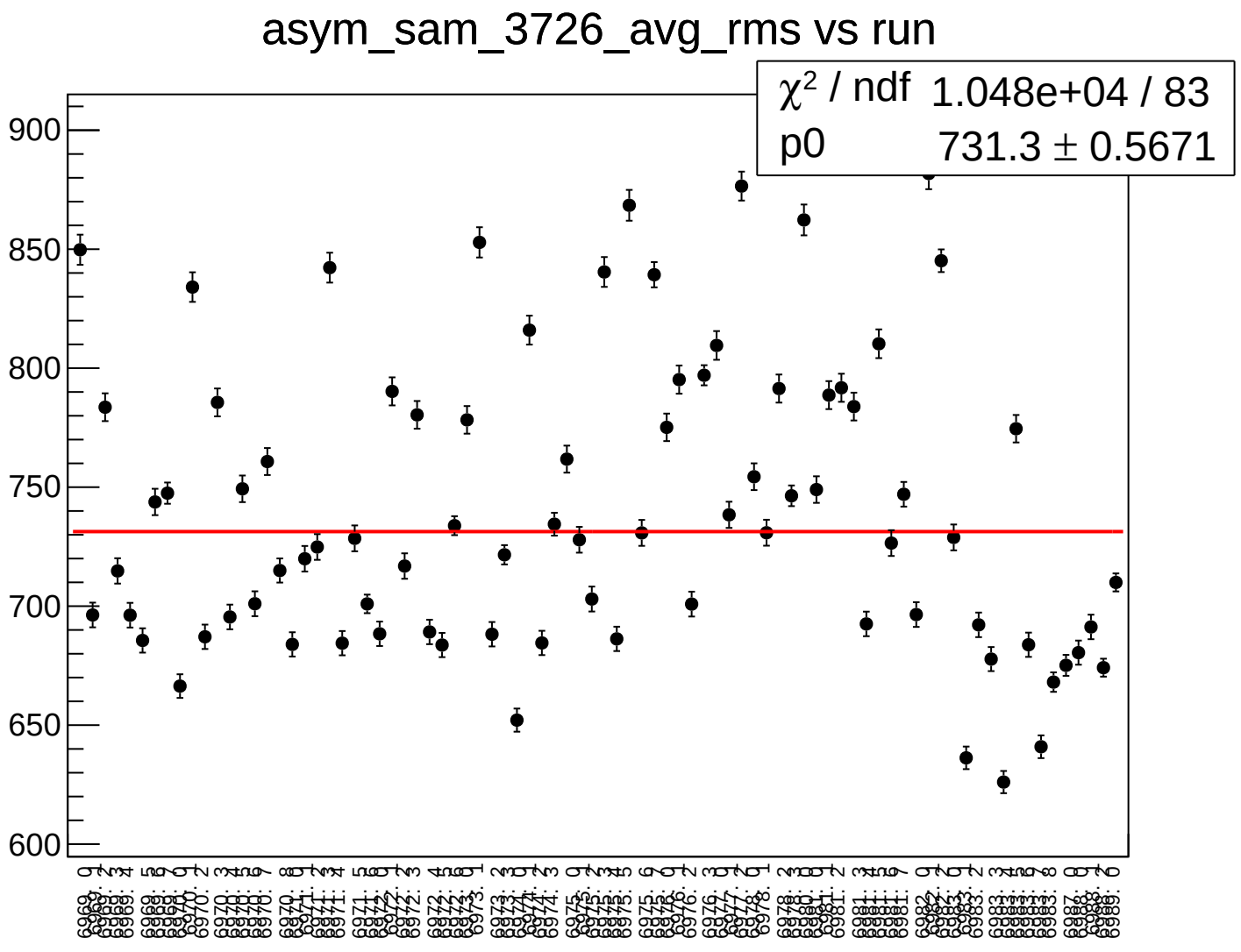

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.929e+04 / 83
p0 81.93 ± 0.0637
120
110
100
90
80
70

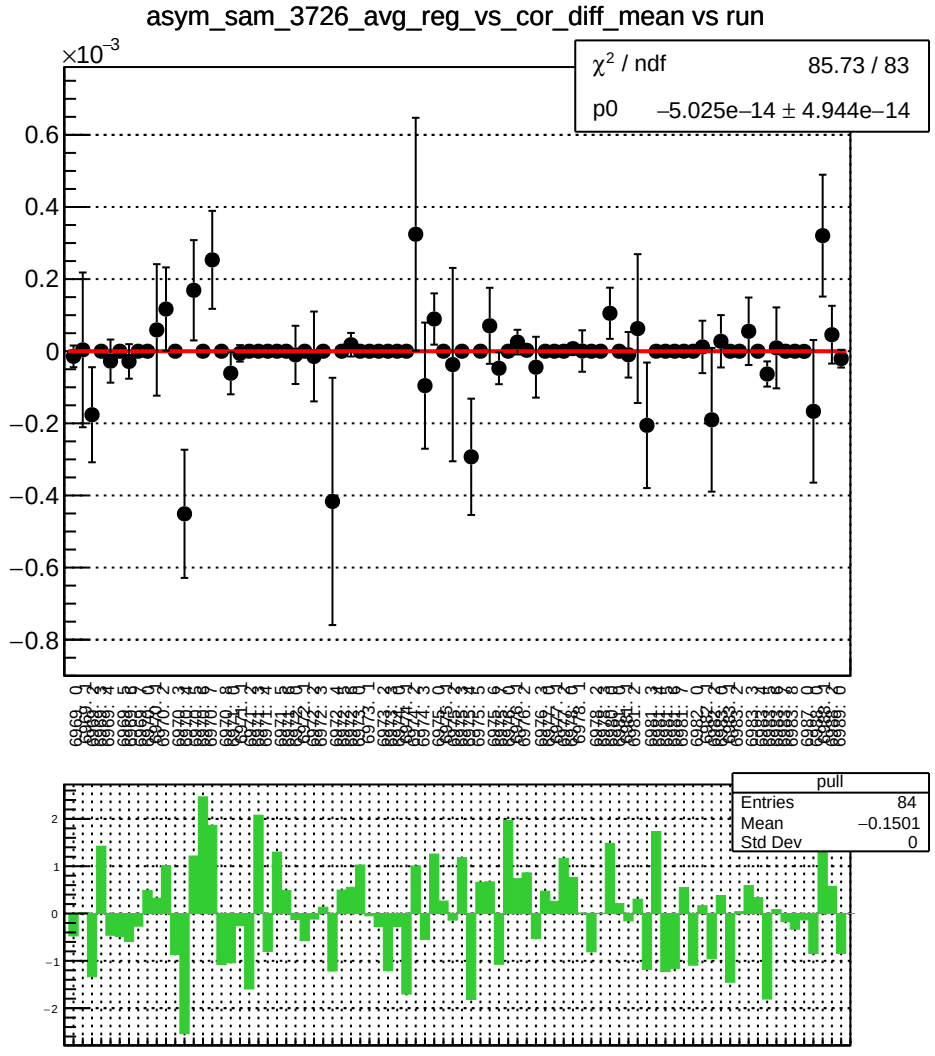

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.71 / 83
p0 530.7 ± 792.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −277.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.02201
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

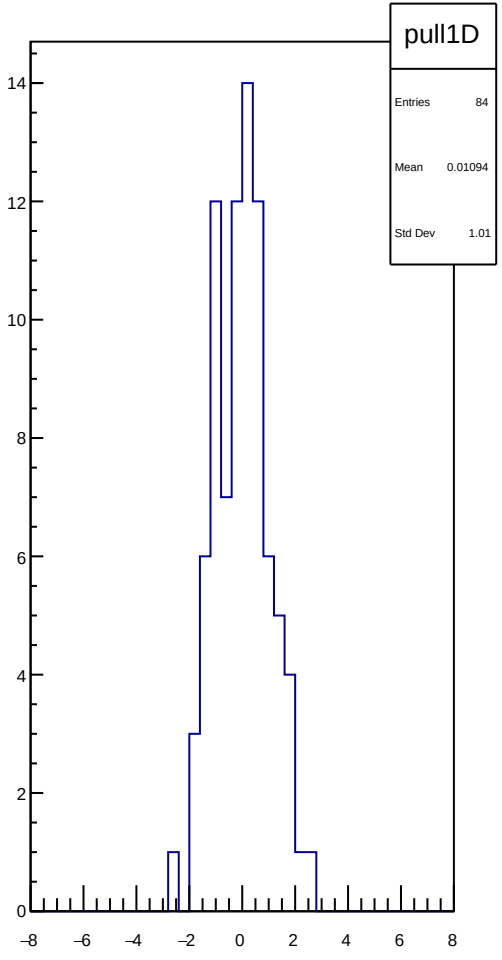

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 7540 / 83
p0 723.2 ± 0.5603
850
800
750
700
650

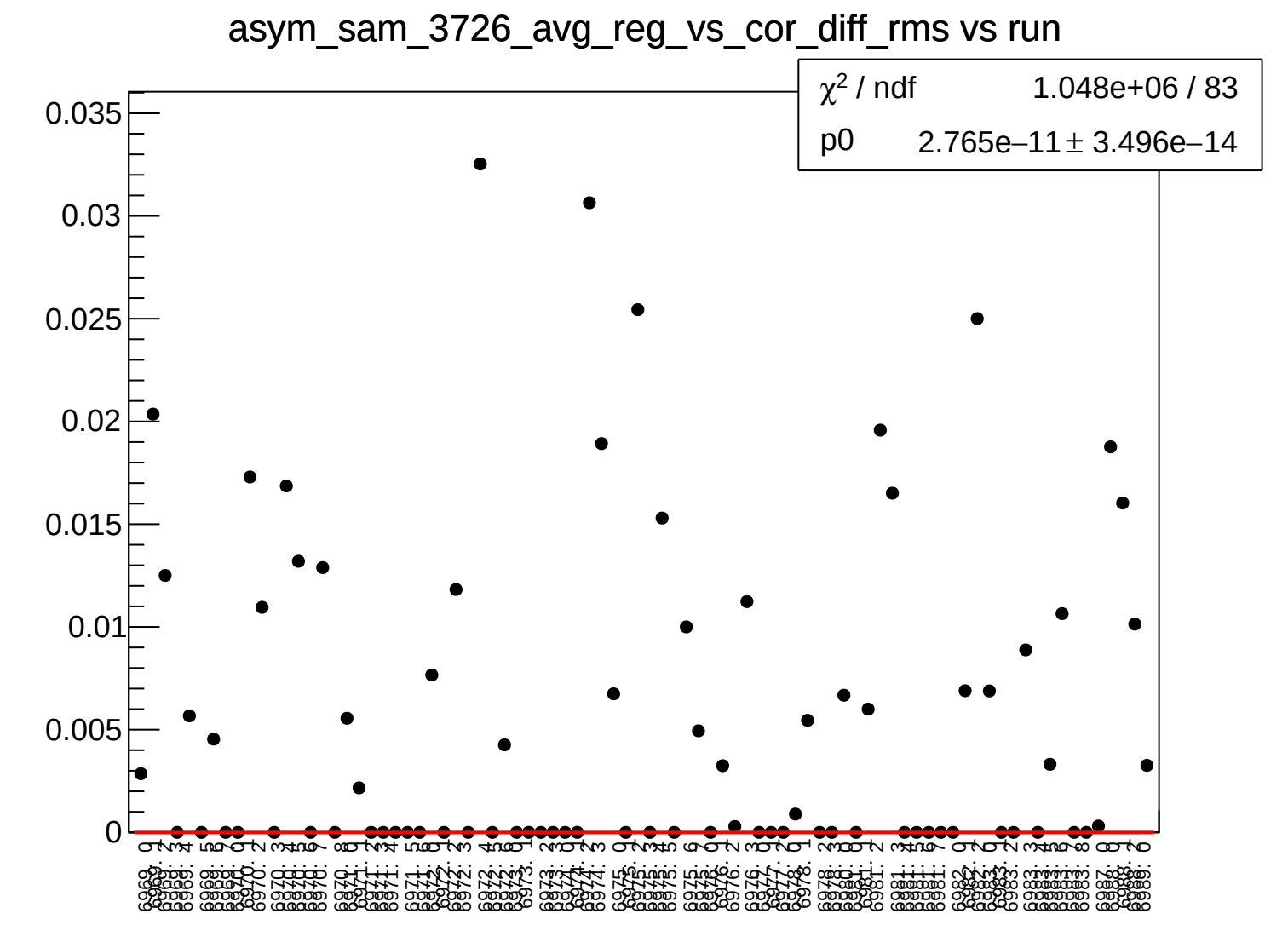

asym_sam_3726_avg_mean vs run
χ² / ndf 85.95 / 83
p0 −576.7 ± 802
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −310.1
Std Dev 0
2
1
0
−1
−2
−3

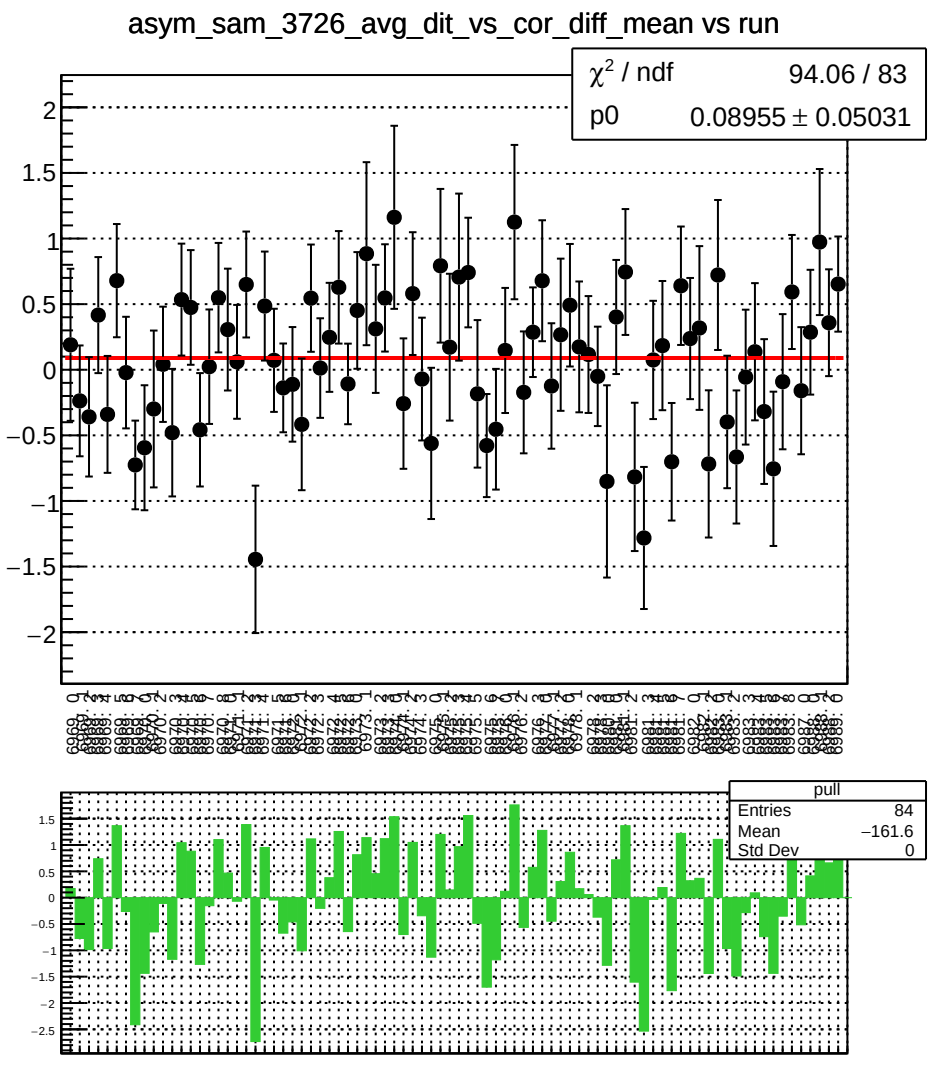

pull1D
Entries 84
Mean −0.01882
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

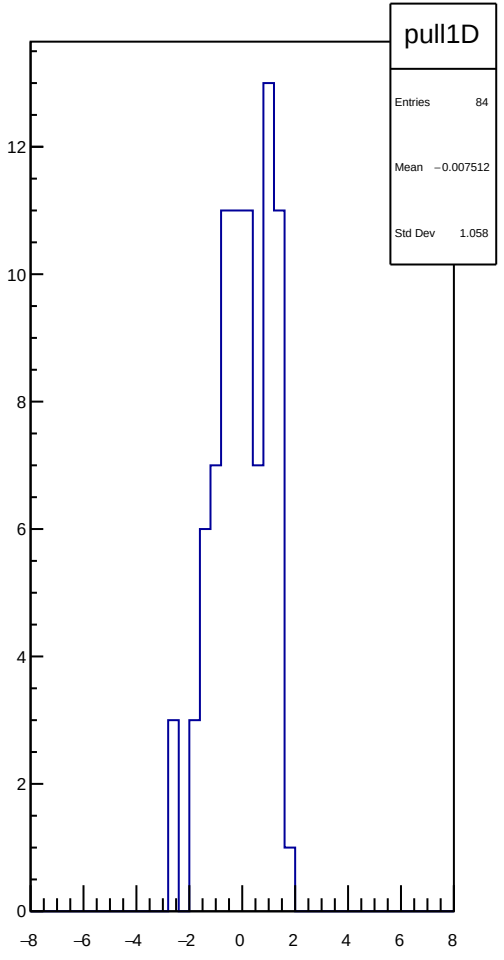

asym_sam_3726_avg_rms vs run
χ² / ndf 1.048e+04 / 83
p0 731.3 ± 0.5671
900
850
800
750
700
650
600

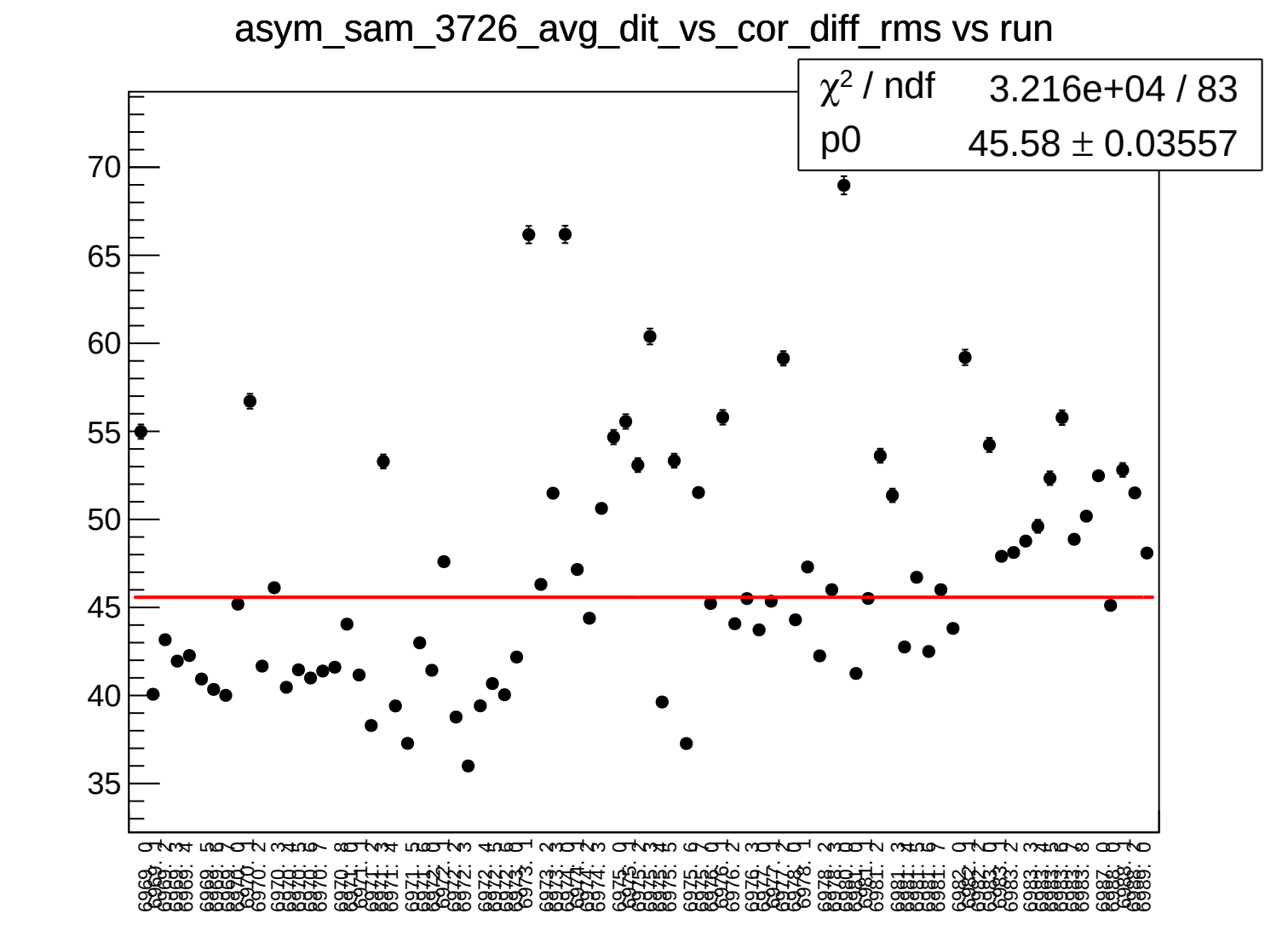

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 85.73 / 83
p0 −5.025e−14 ± 4.944e−14
pull
Entries 84
Mean −0.1501
Std Dev 0

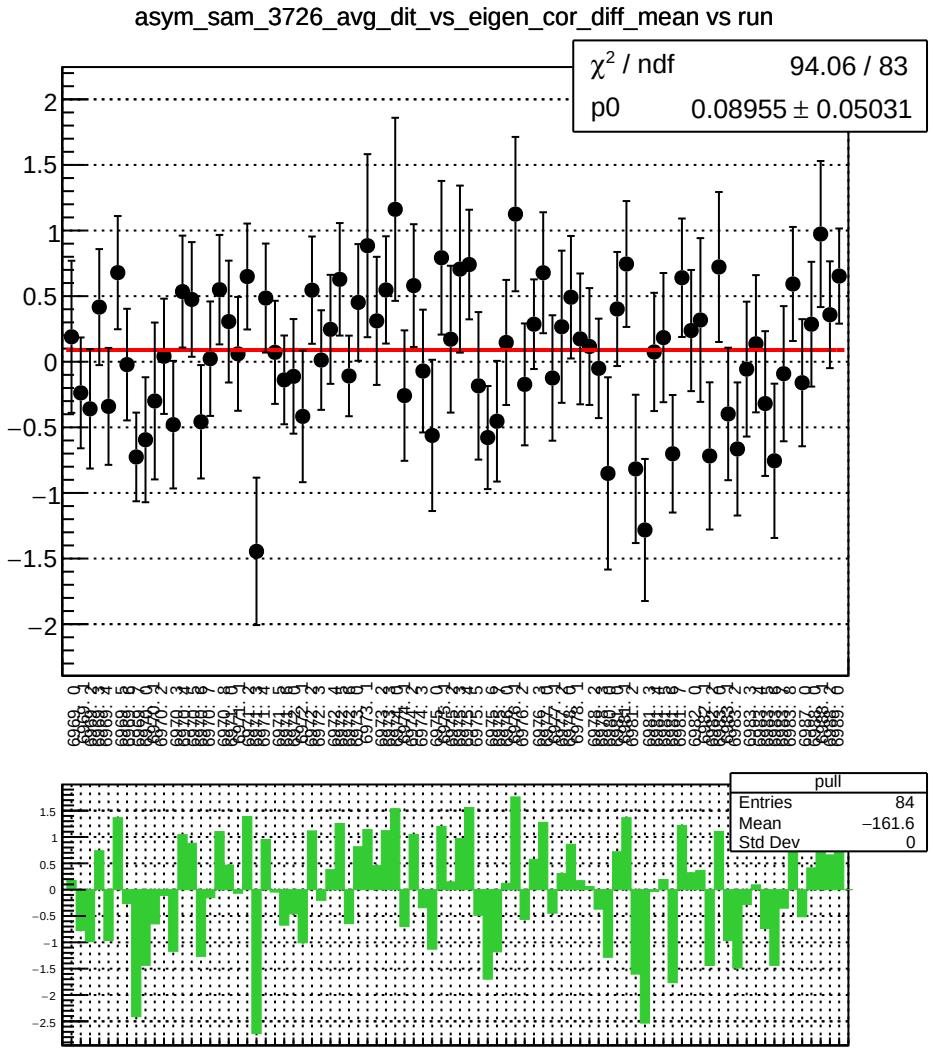

pull1D
Entries 84
Mean 0.01094
Std Dev 1.01

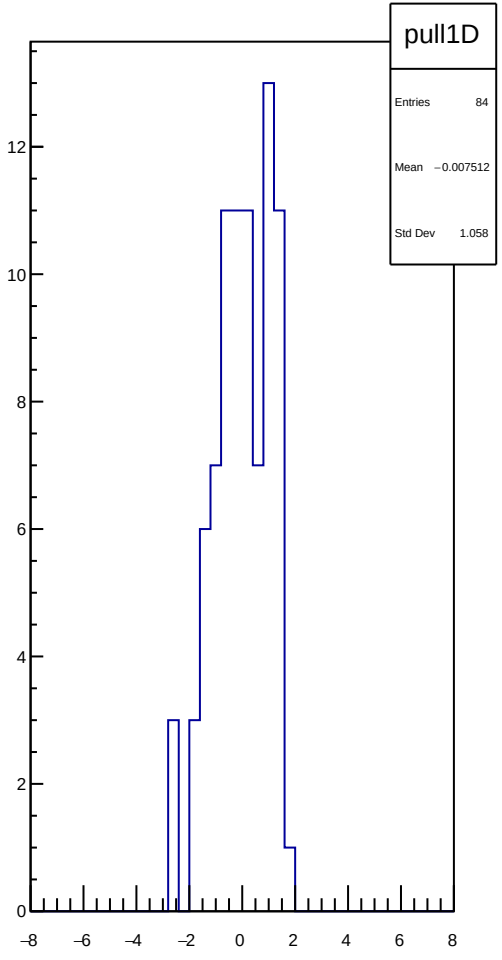

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.048e+06 / 83
p0 2.765e−11 ± 3.496e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

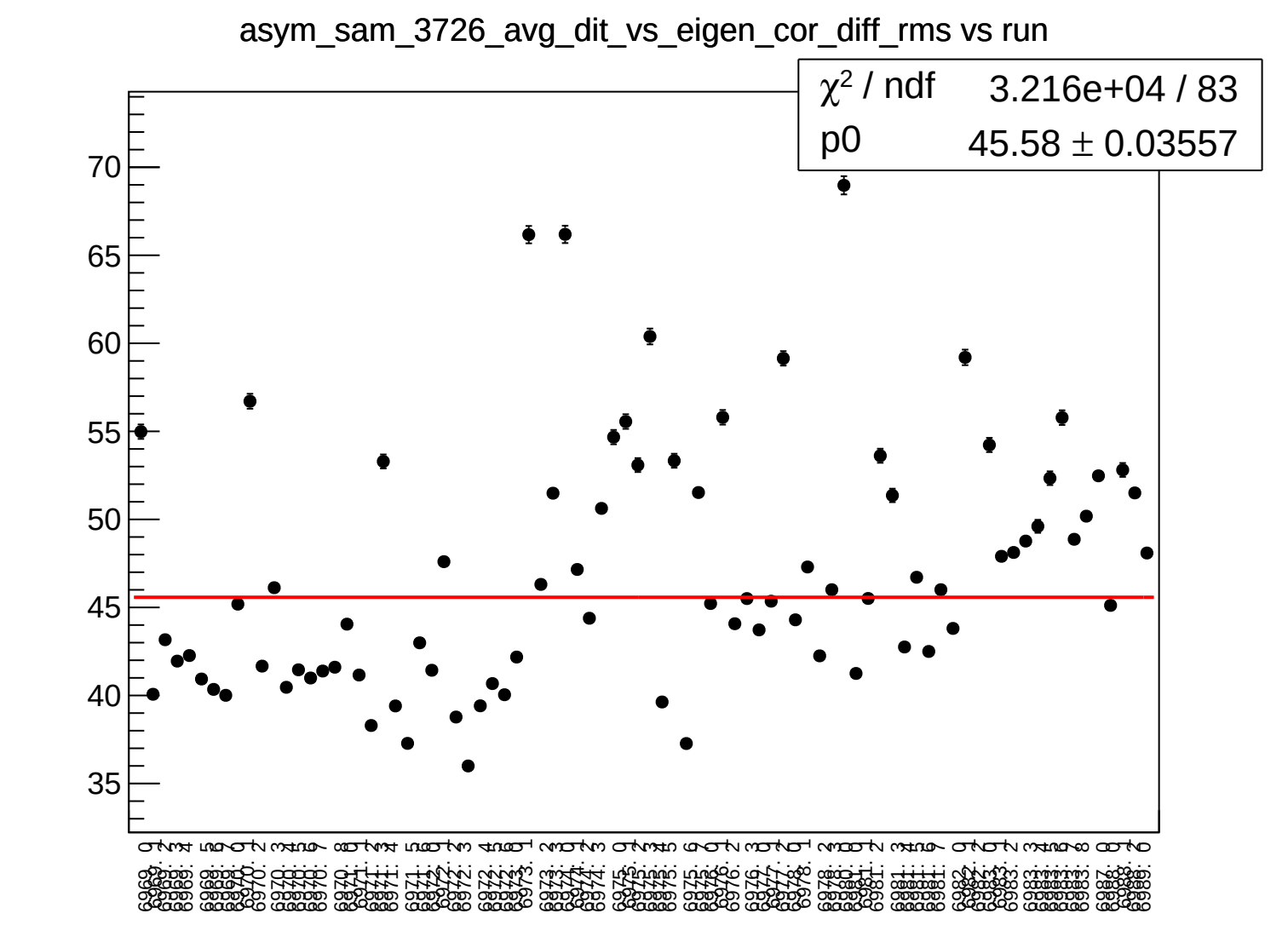

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.06 / 83
p0 0.08955 ± 0.05031
pull
Entries 84
Mean −161.6
Std Dev 0

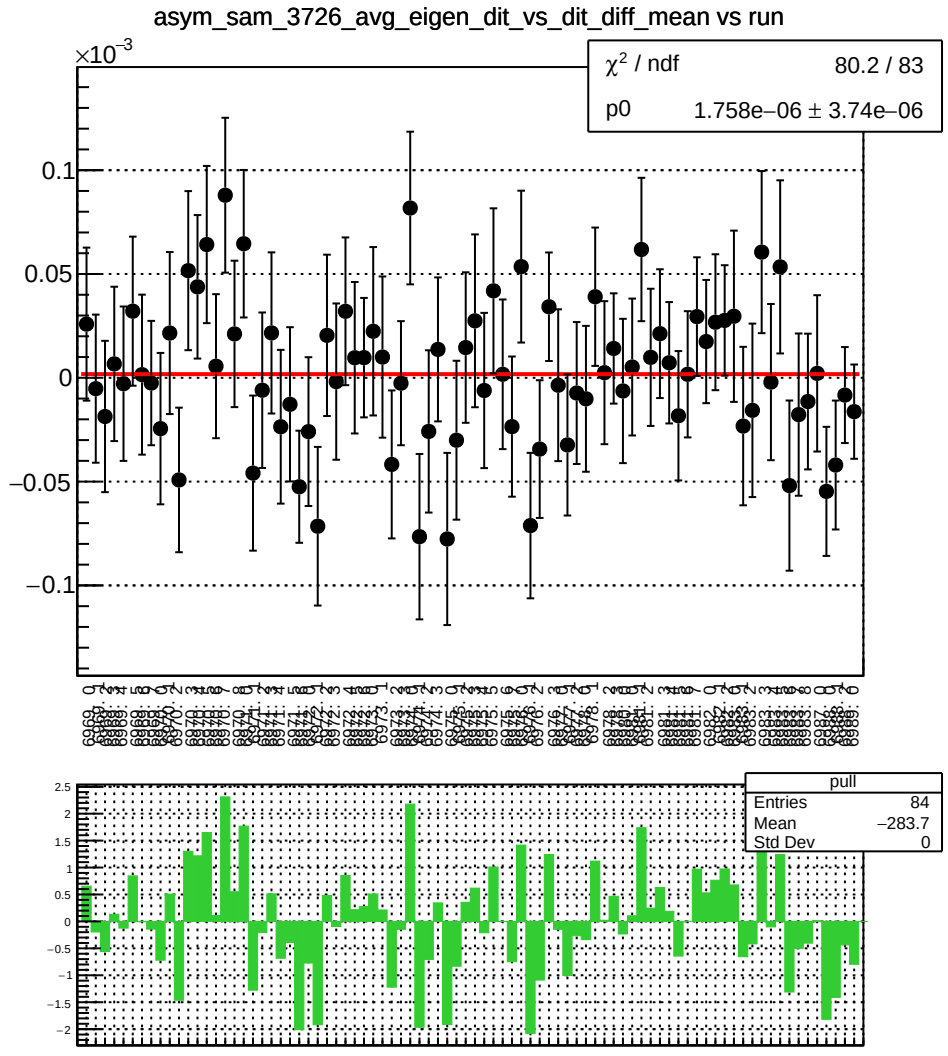

pull1D
Entries 84
Mean −0.007512
Std Dev 1.058

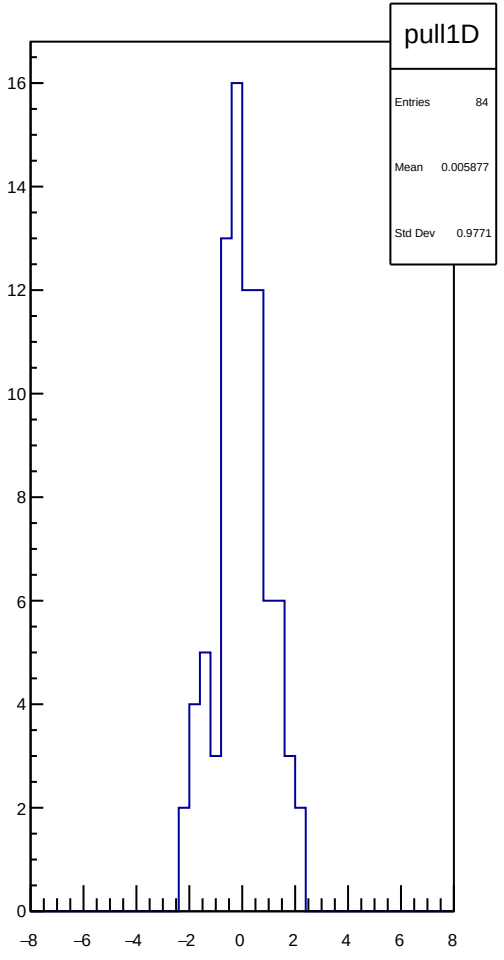

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.216e+04 / 83
p0 45.58 ± 0.03557
70
65
60
55
50
45
40
35

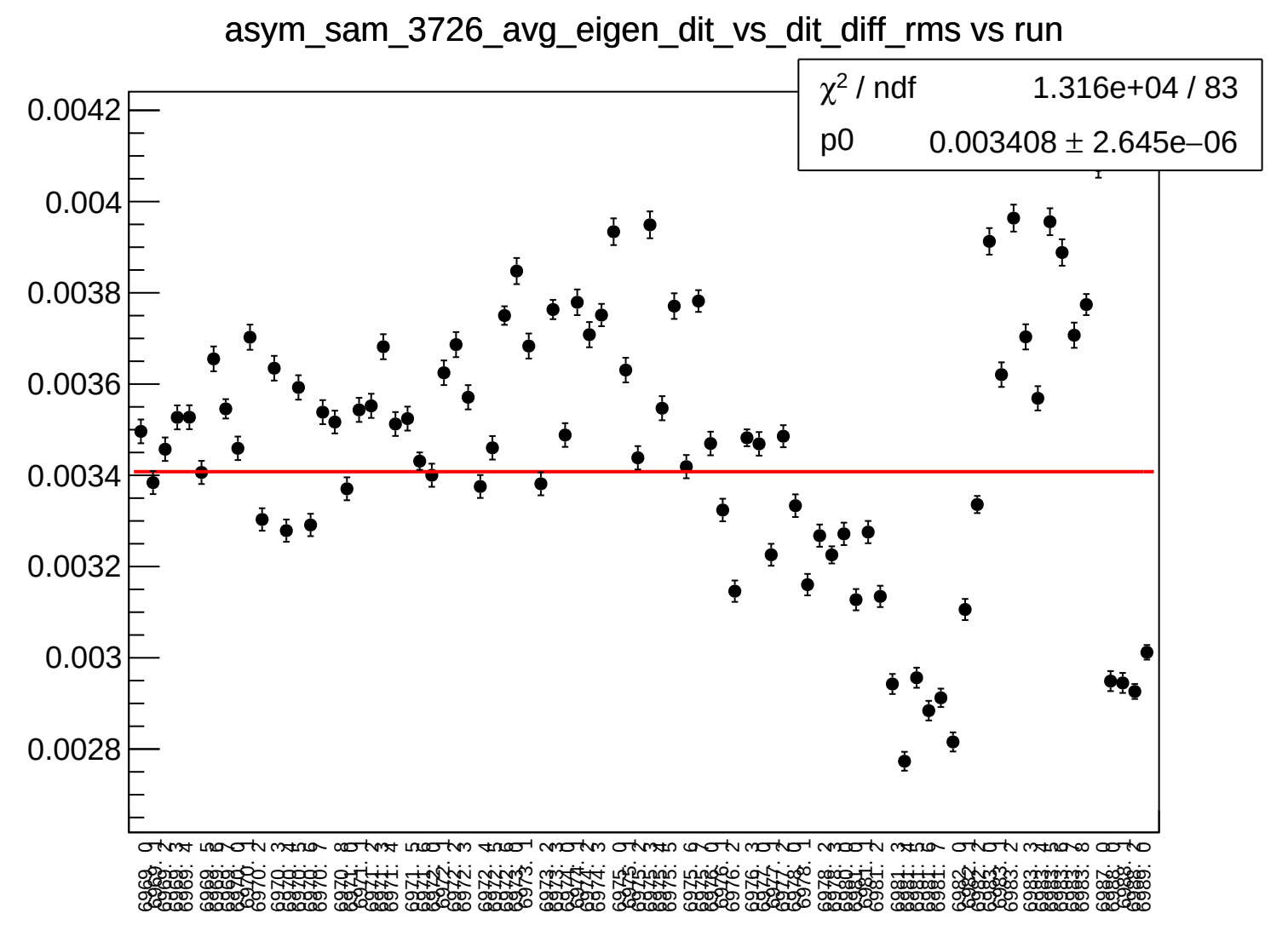

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.06 / 83
p0 0.08955 ± 0.05031
pull
Entries 84
Mean −161.6
Std Dev 0

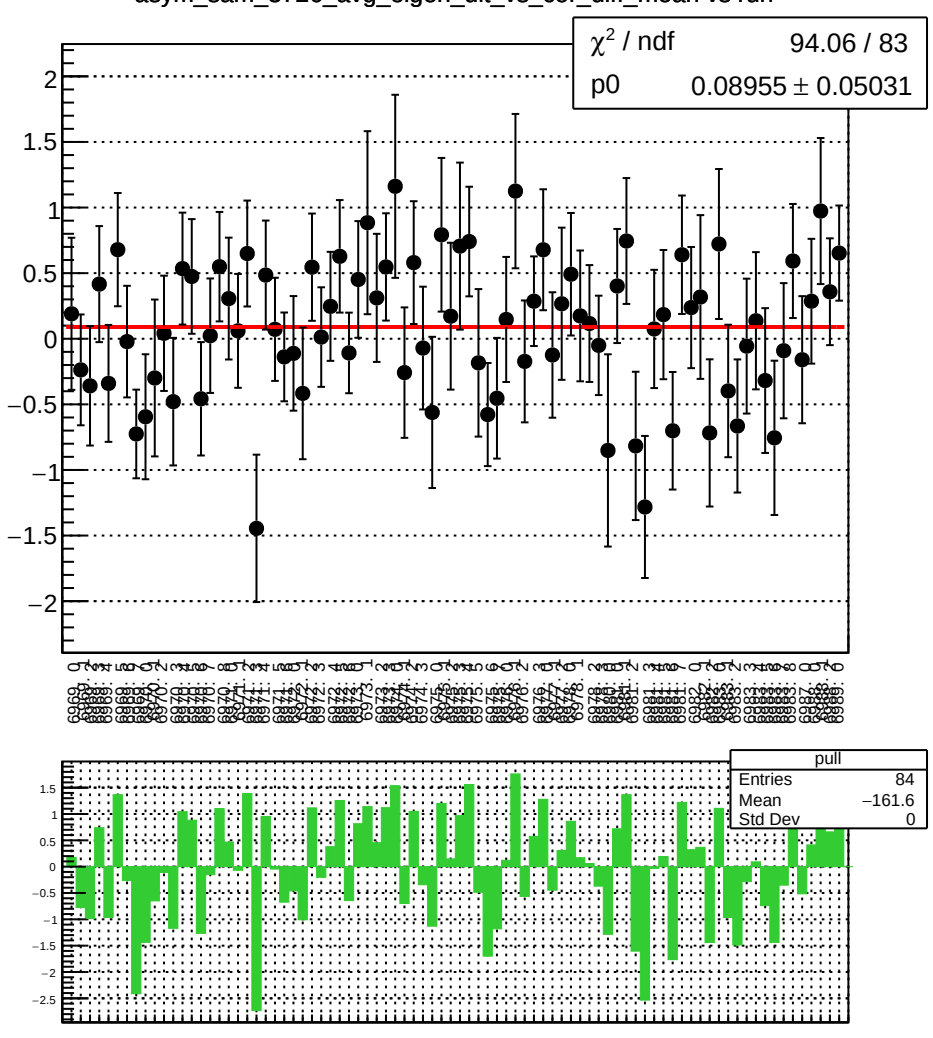

pull1D
Entries 84
Mean −0.007512
Std Dev 1.058

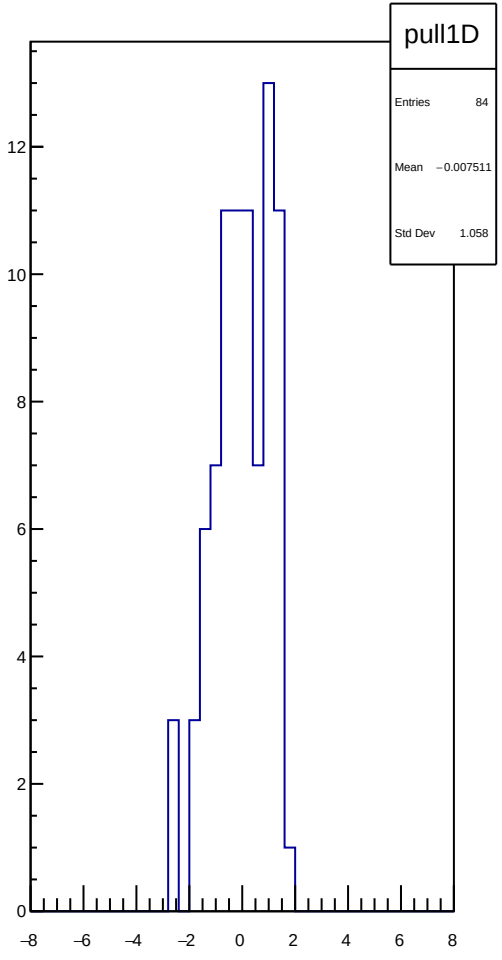

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.216e+04 / 83
p0 45.58 ± 0.03557
70
65
60
55
50
45
40
35

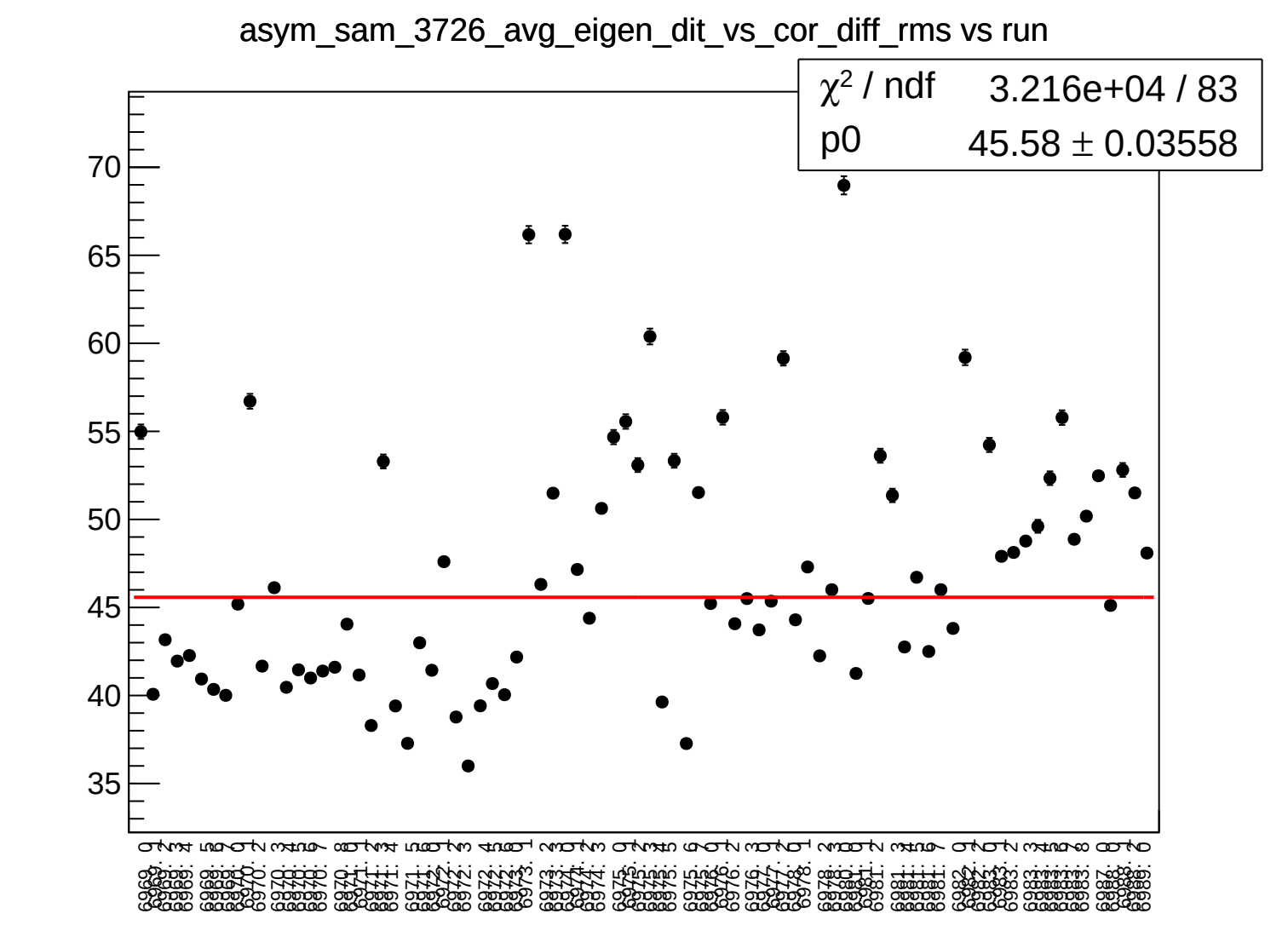

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.2 / 83
p0 1.758e−06 ± 3.74e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean −283.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

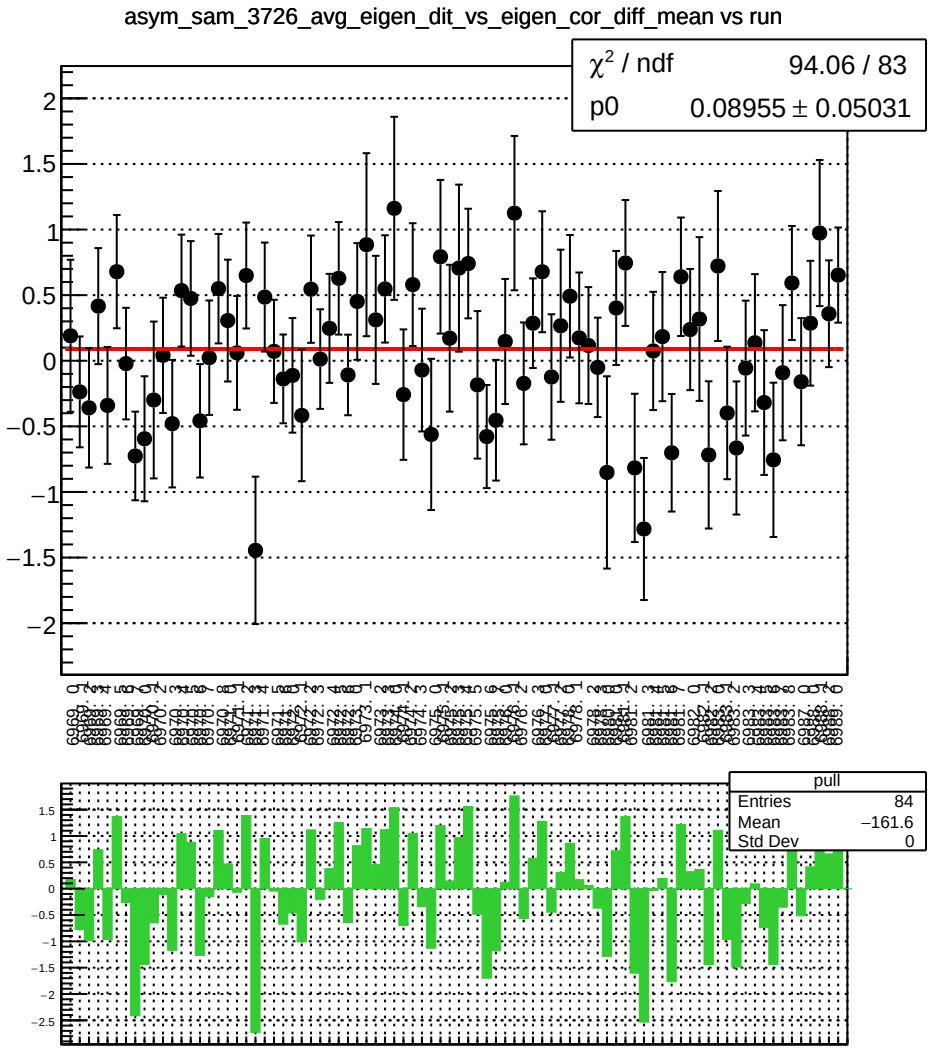

pull1D
Entries 84
Mean 0.005877
Std Dev 0.9771
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

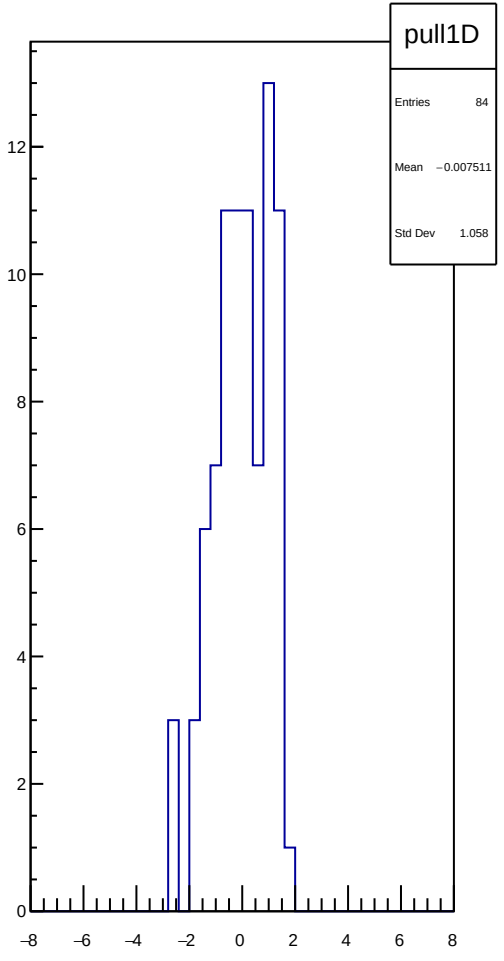

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.316e+04 / 83
p0 0.003408 ± 2.645e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

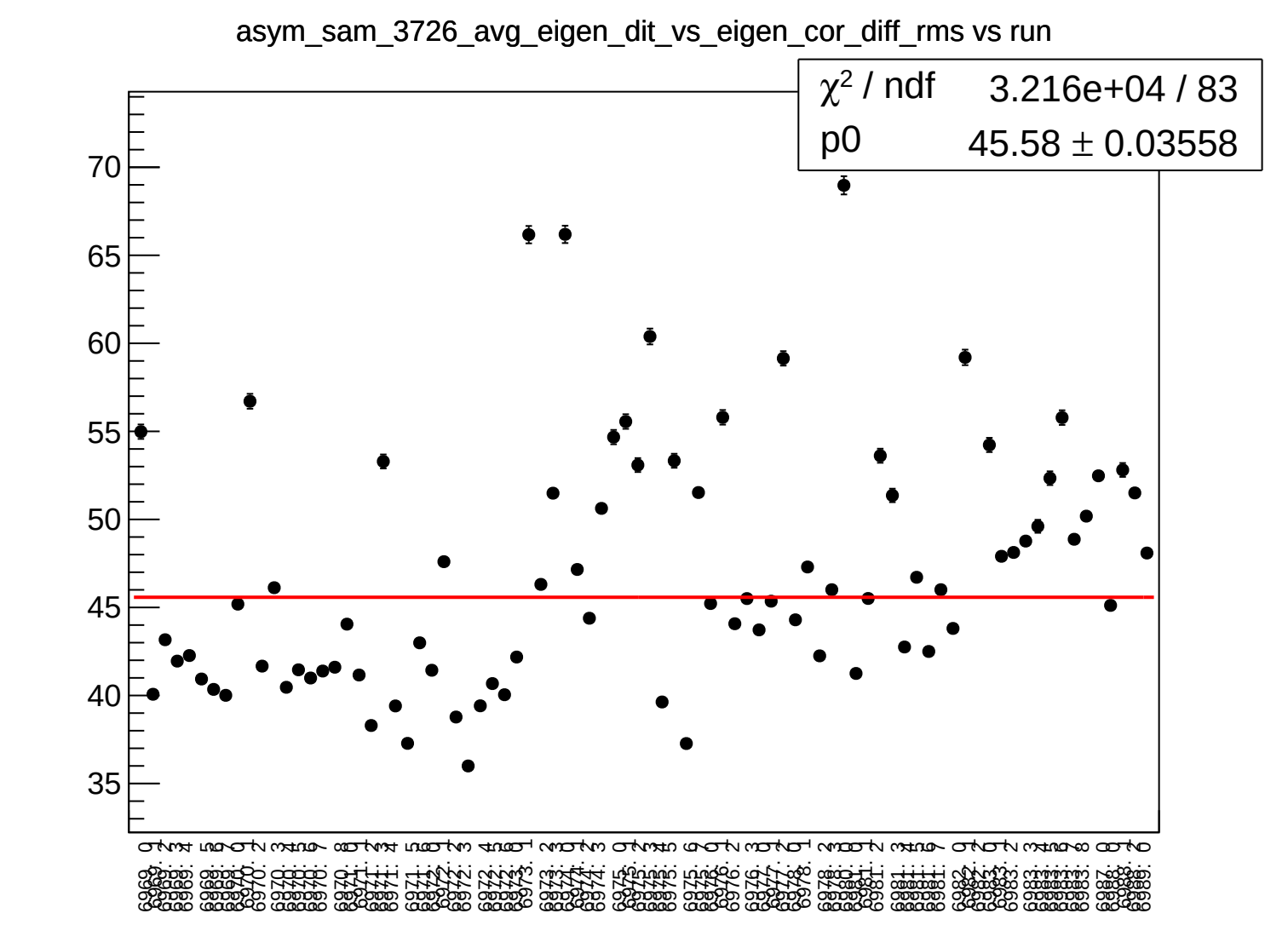

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.06 / 83
p0 0.08955 ± 0.05031
pull
Entries 84
Mean −161.6
Std Dev 0

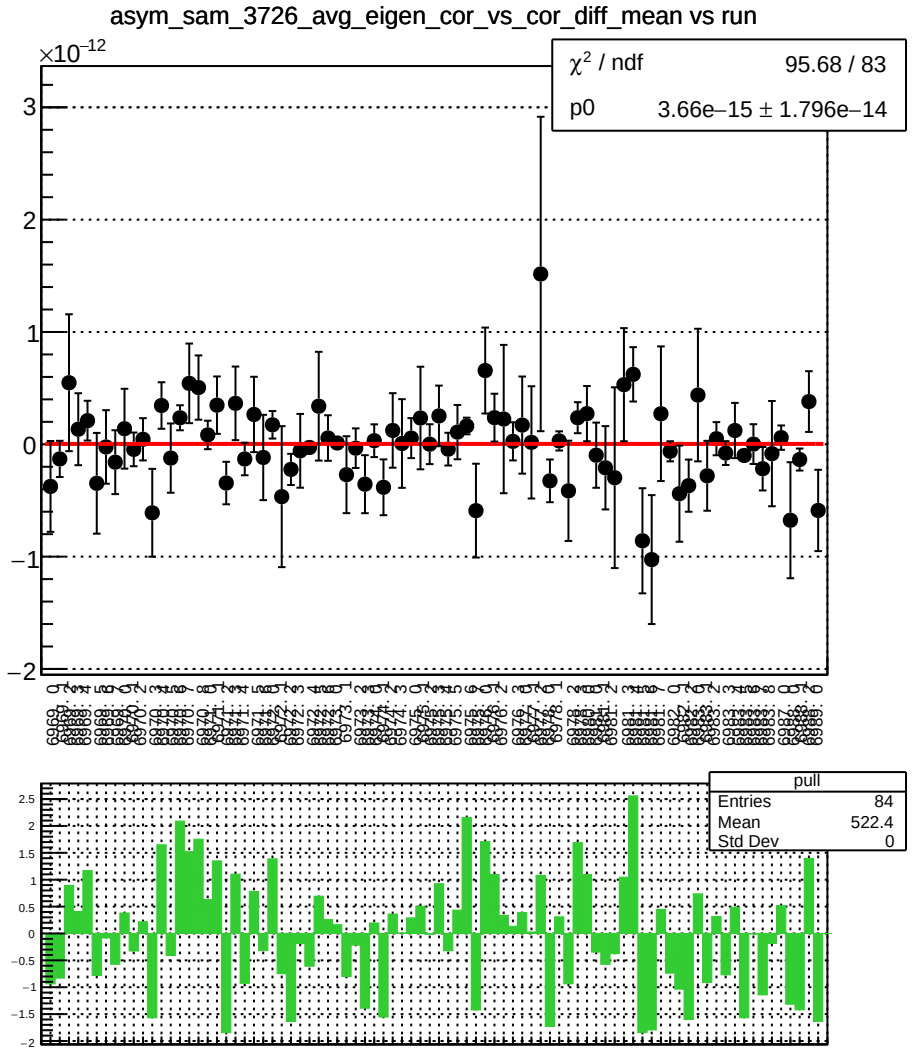

pull1D
Entries 84
Mean −0.007511
Std Dev 1.058

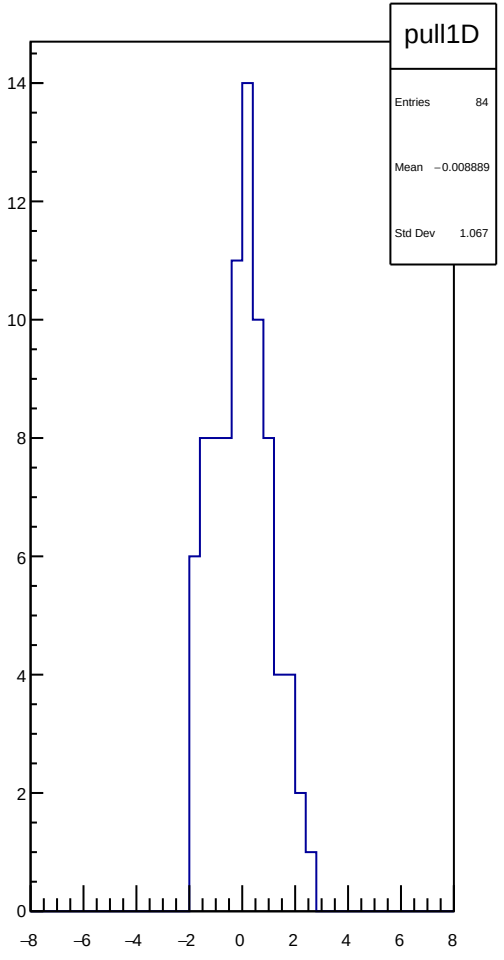

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.216e+04 / 83
p0 45.58 ± 0.03558
70
65
60
55
50
45
40
35

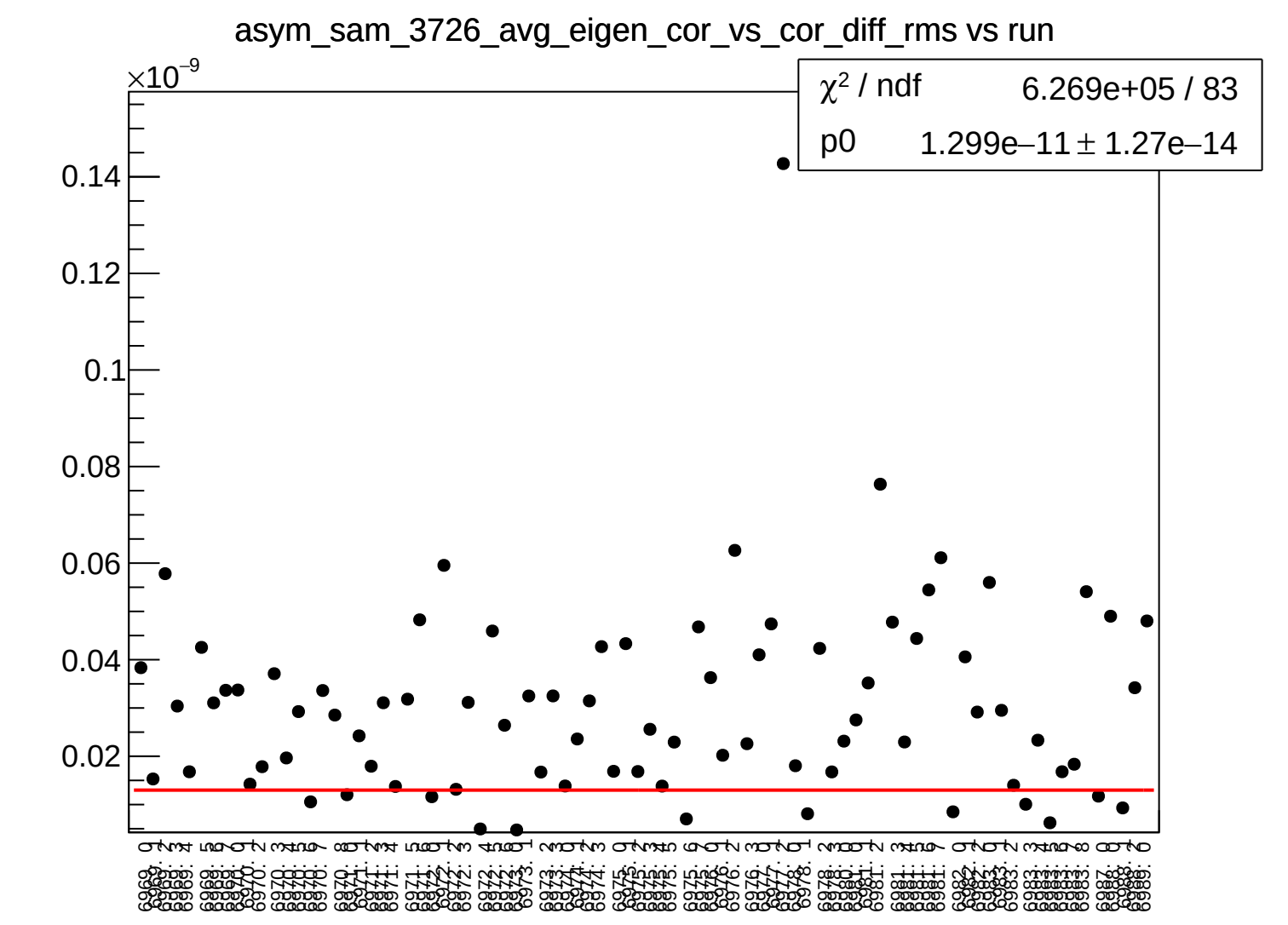

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.06 / 83
p0 0.08955 ± 0.05031
pull
Entries 84
Mean −161.6
Std Dev 0

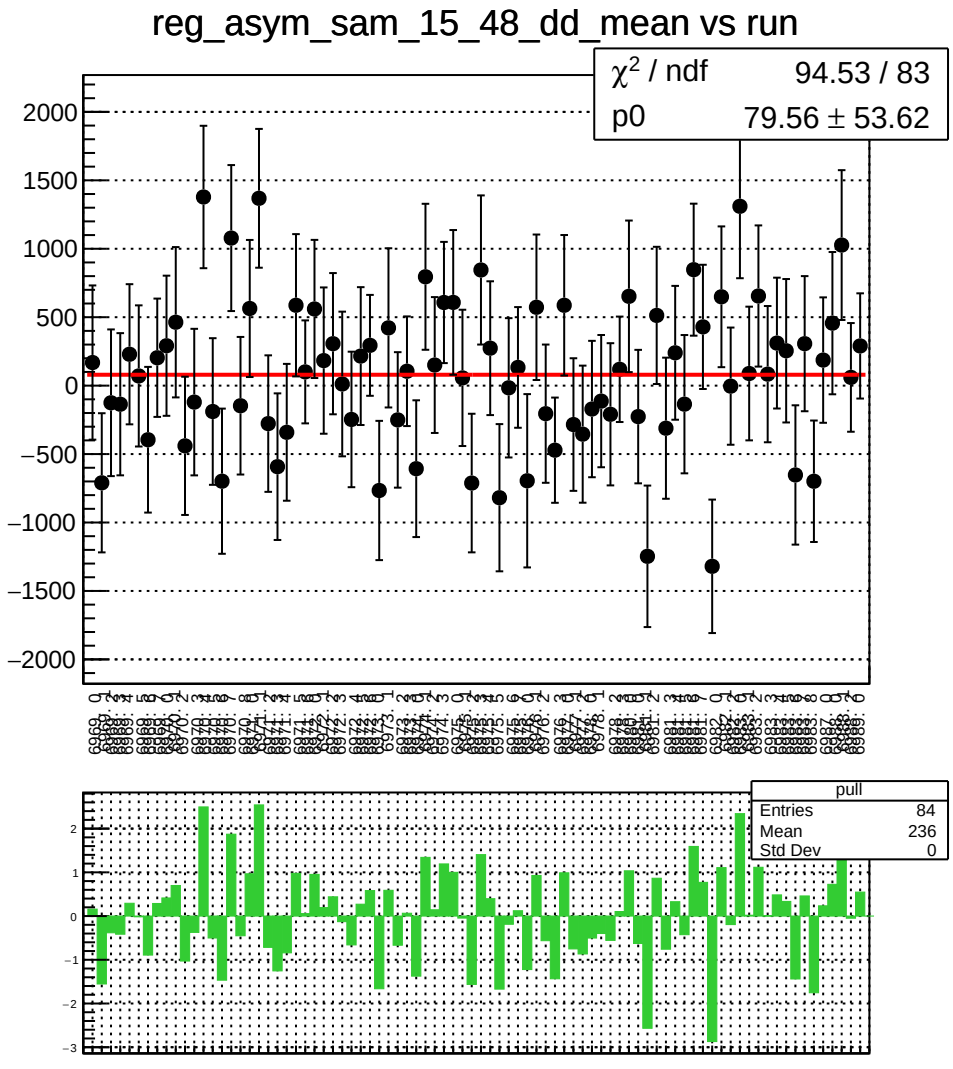

pull1D
Entries 84
Mean −0.007511
Std Dev 1.058

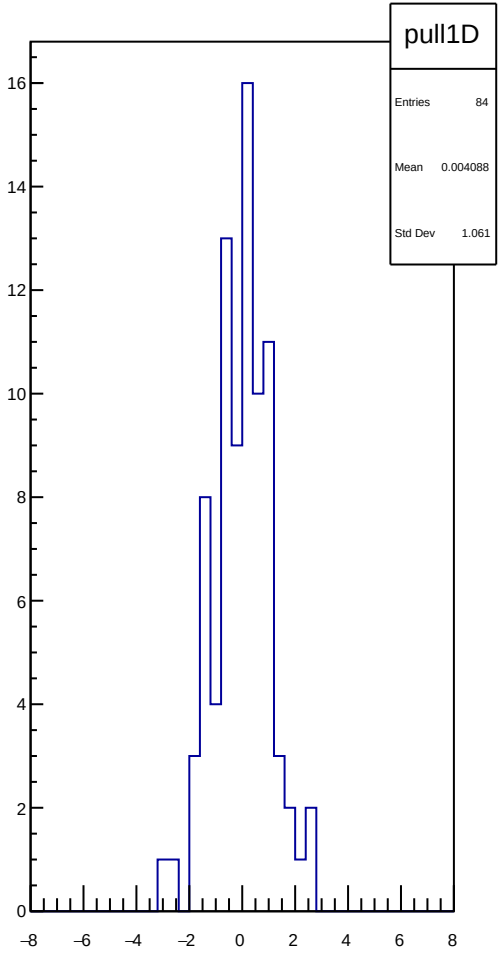

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.216e+04 / 83
p0 45.58 ± 0.03558
70
65
60
55
50
45
40
35

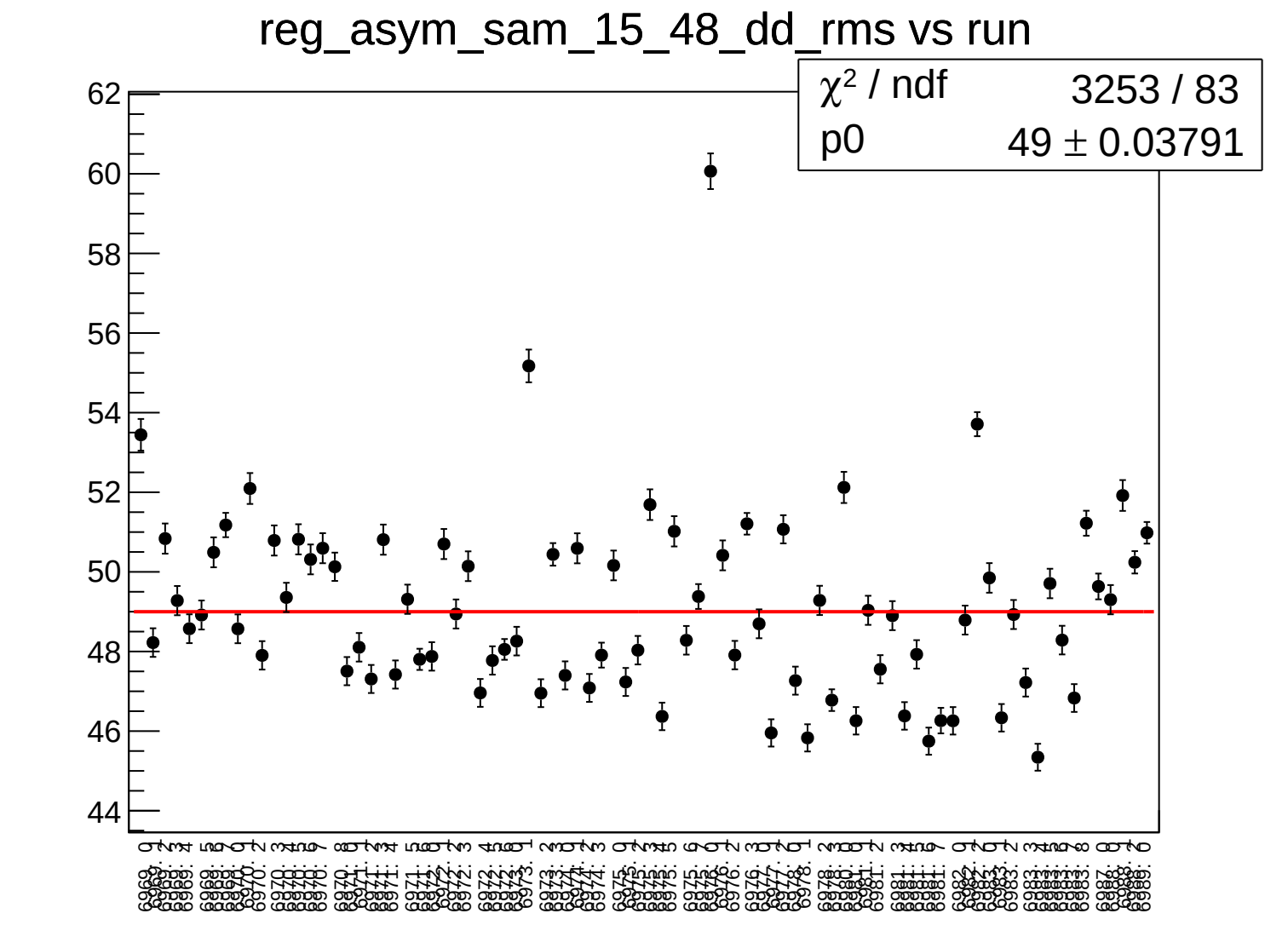

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.68 / 83
p0 3.66e−15 ± 1.796e−14
pull
Entries 84
Mean 522.4
Std Dev 0

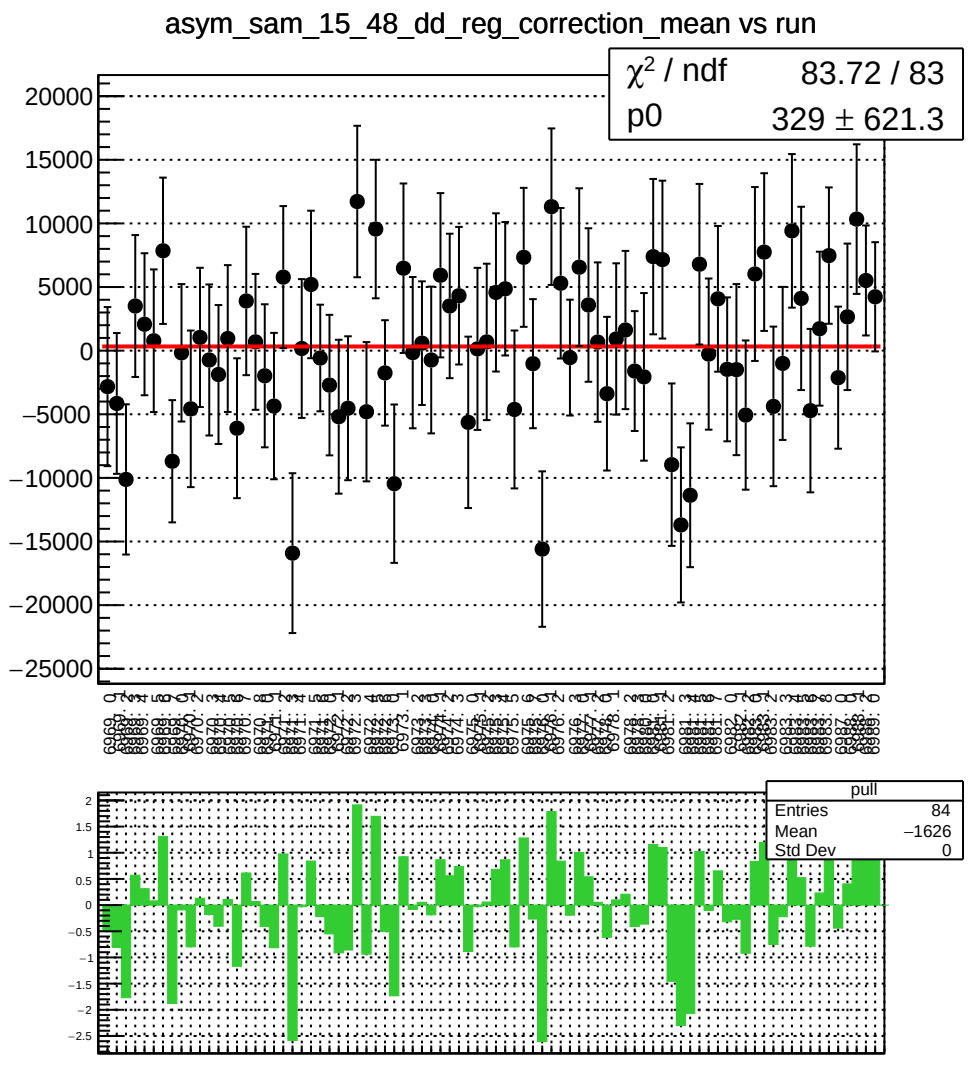

pull1D
Entries 84
Mean −0.008889
Std Dev 1.067

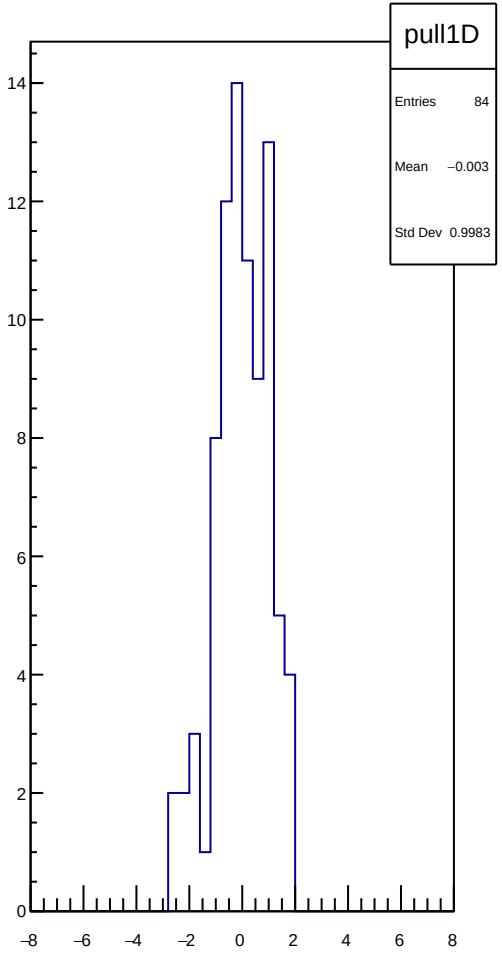

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.269e+05 / 83
p0 1.299e−11 ± 1.27e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

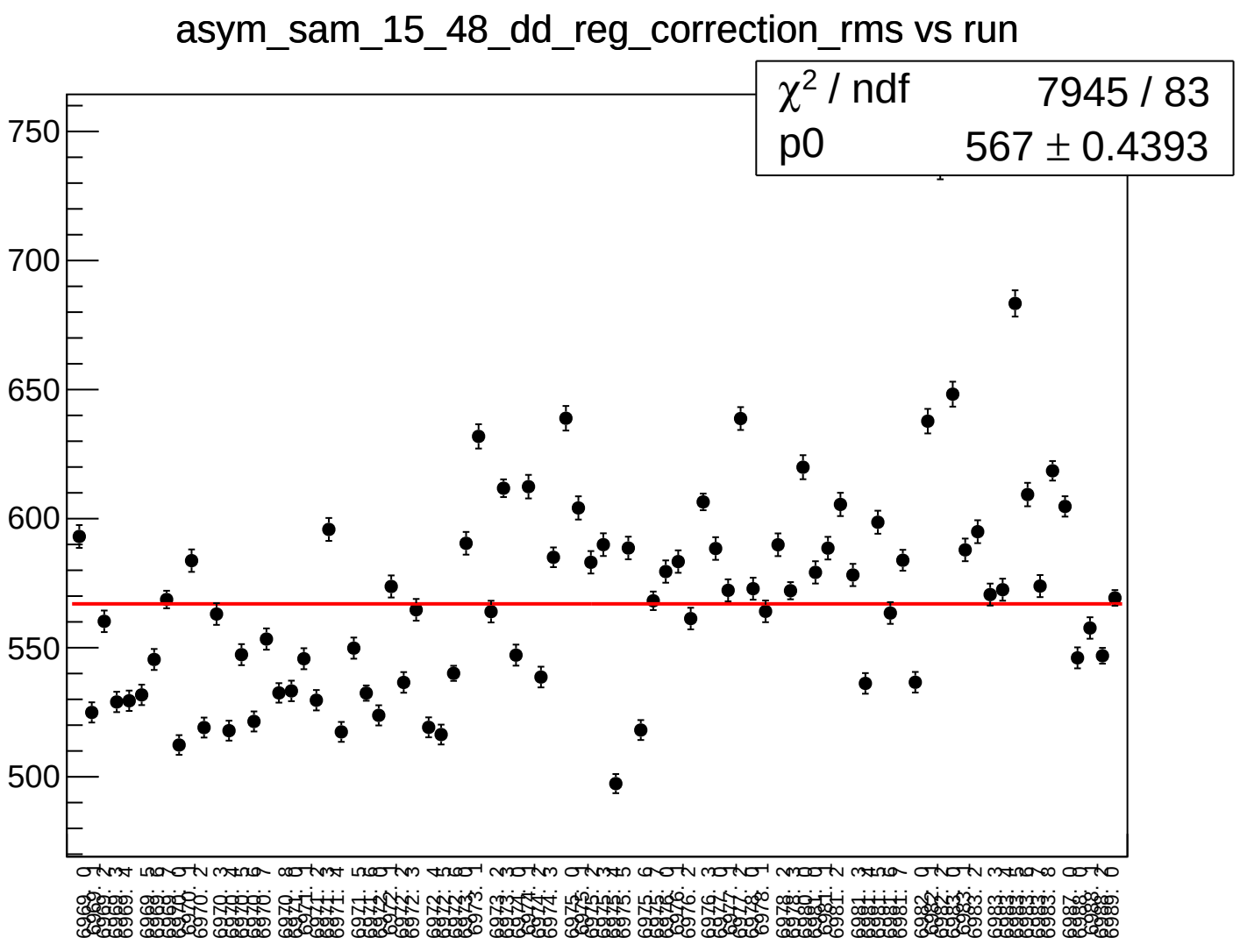

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 94.53 / 83
p0 79.56 ± 53.62
pull
Entries 84
Mean 236
Std Dev 0

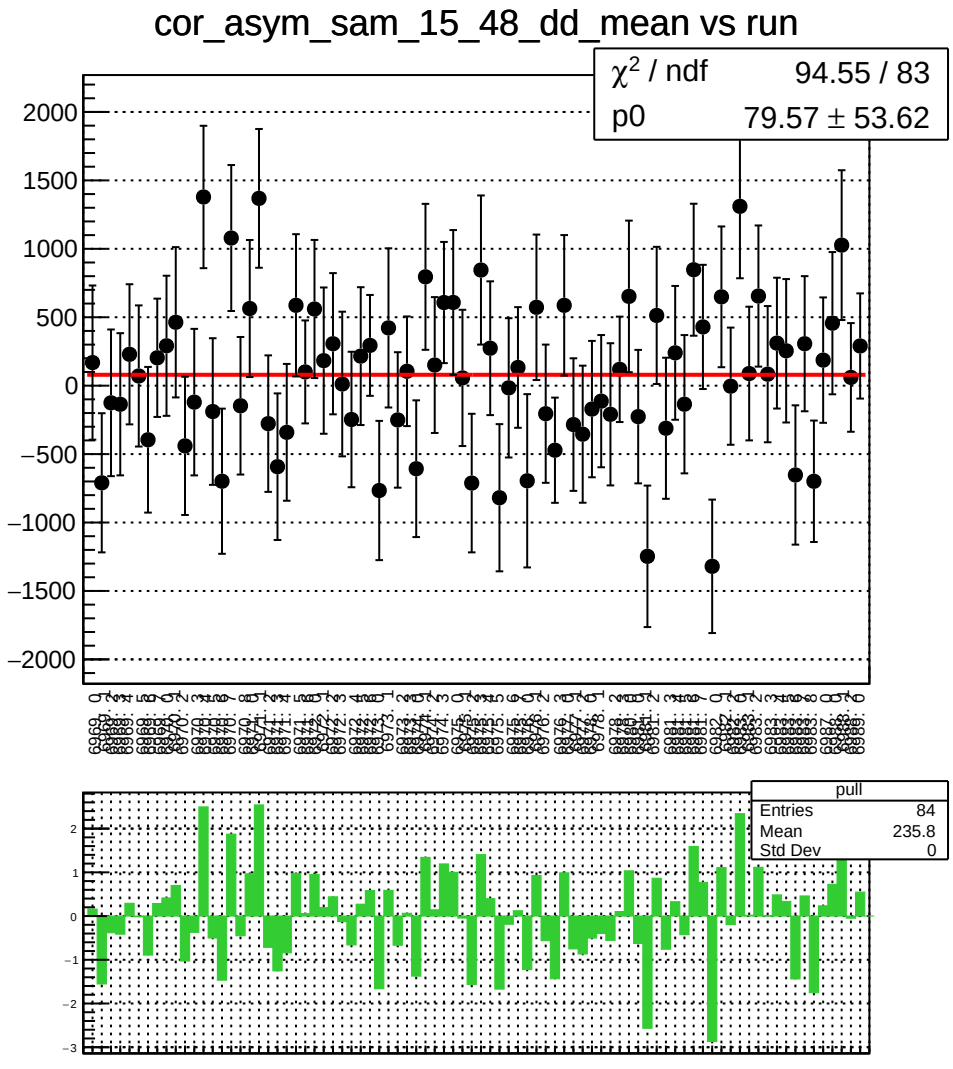

pull1D
Entries 84
Mean 0.004088
Std Dev 1.061

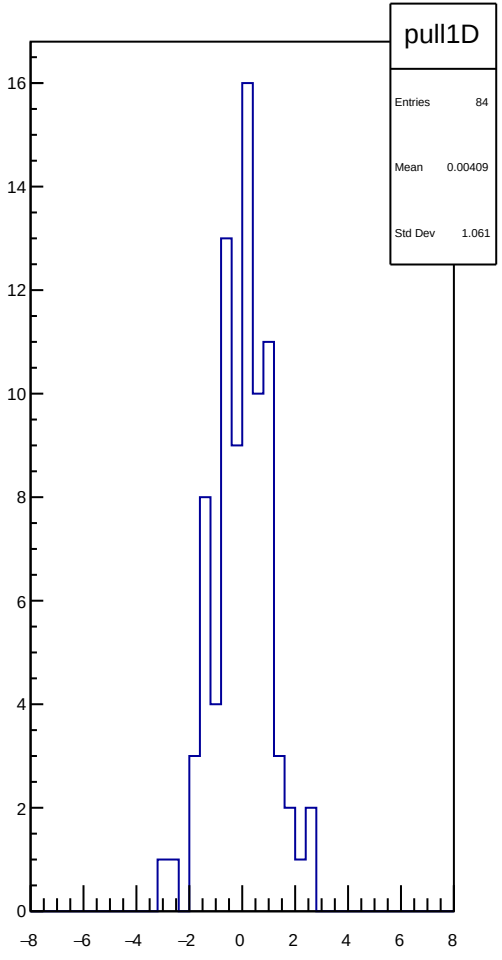

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 3253 / 83
p0 49 ± 0.03791
62
60
58
56
54
52
50
48
46
44

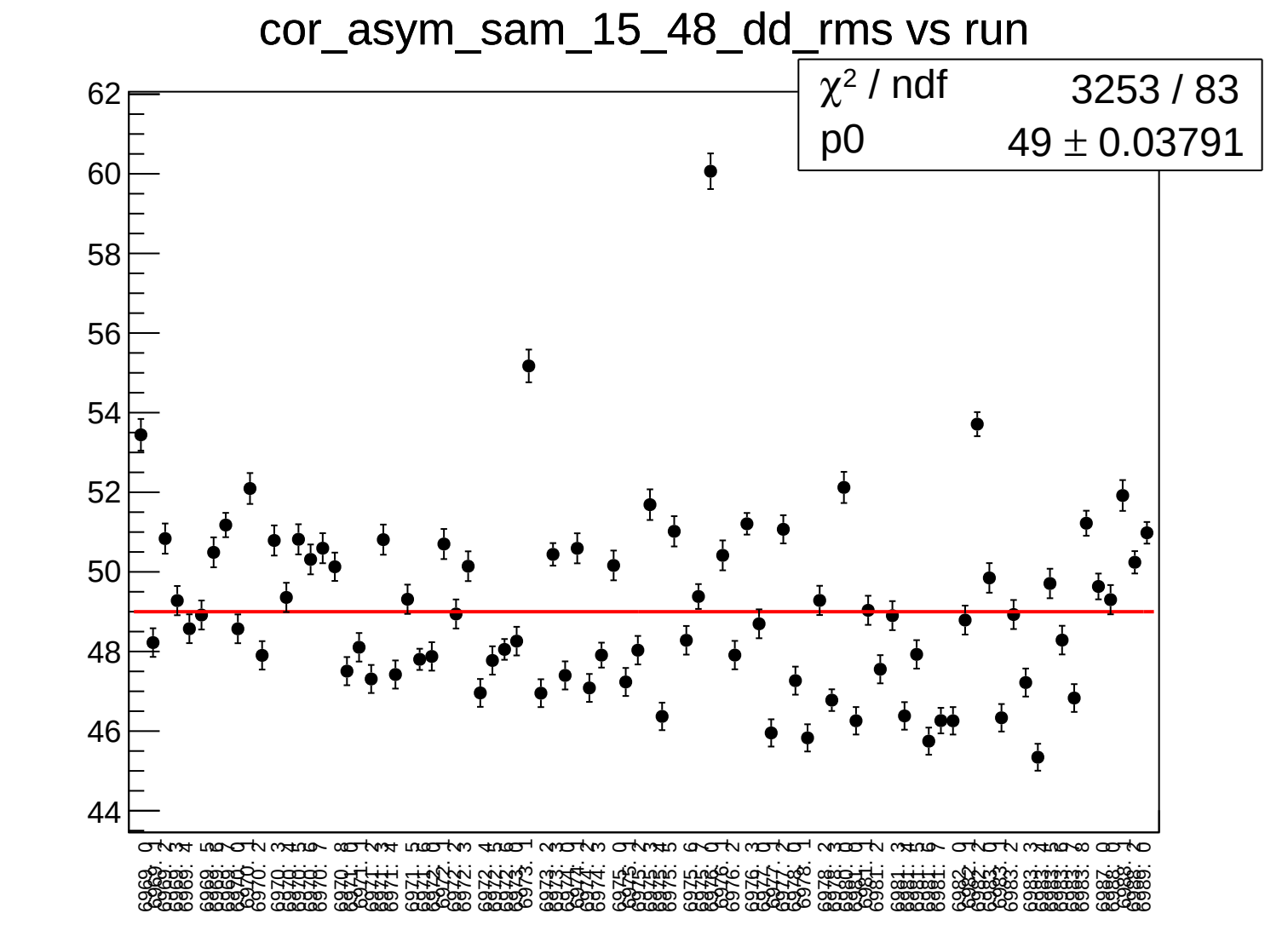

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 83.72 / 83
p0 329 ± 621.3
pull
Entries 84
Mean −1626
Std Dev 0

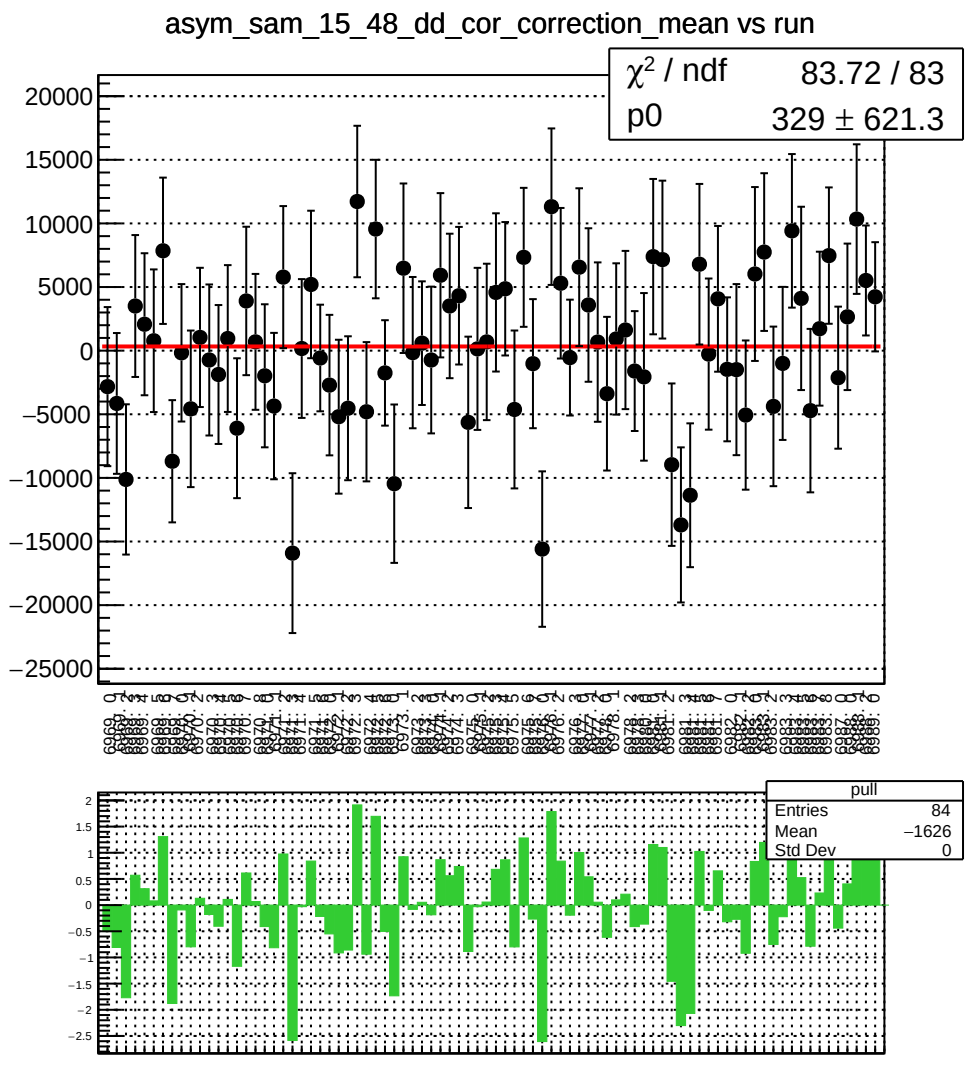

pull1D
Entries 84
Mean −0.003
Std Dev 0.9983

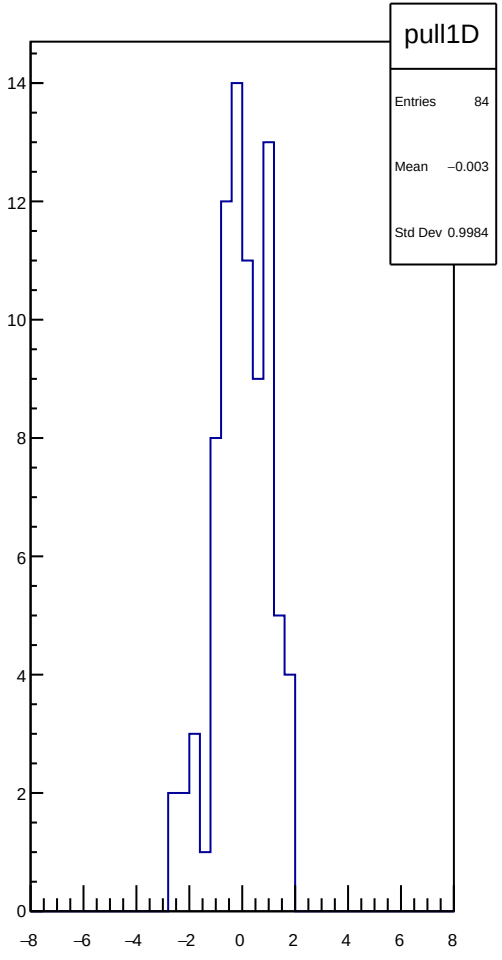

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 7945 / 83
p0 567 ± 0.4393
750
700
650
600
550
500

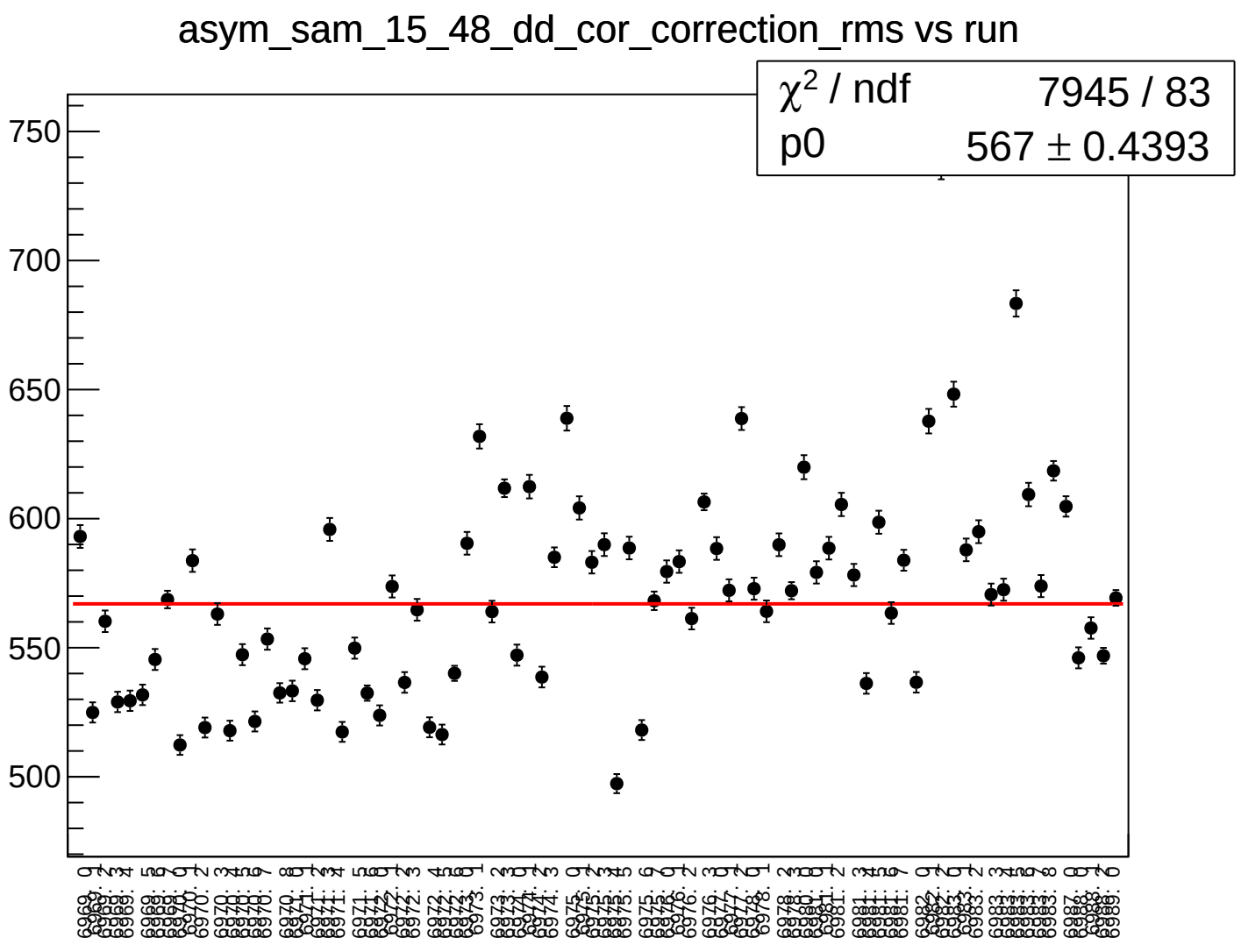

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 94.55 / 83
p0 79.57 ± 53.62
pull
Entries 84
Mean 235.8
Std Dev 0

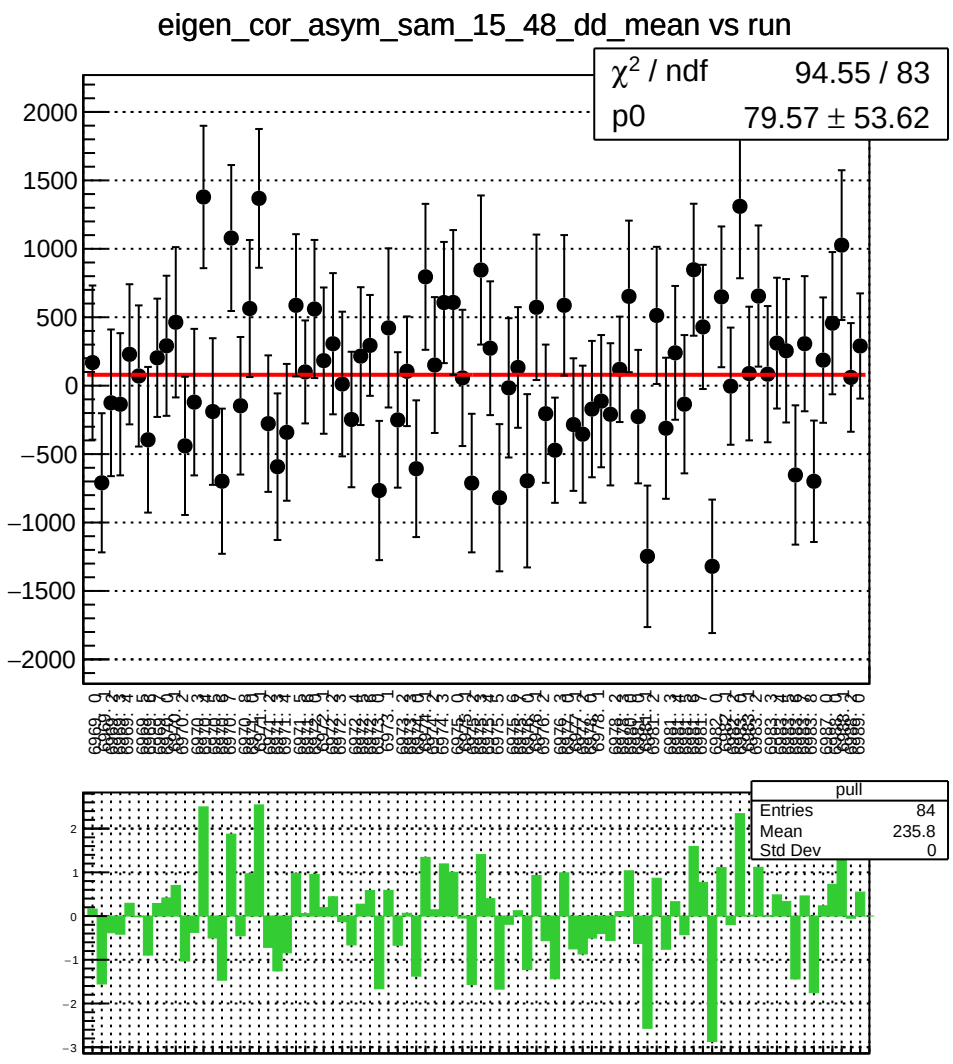

pull1D
Entries 84
Mean 0.00409
Std Dev 1.061

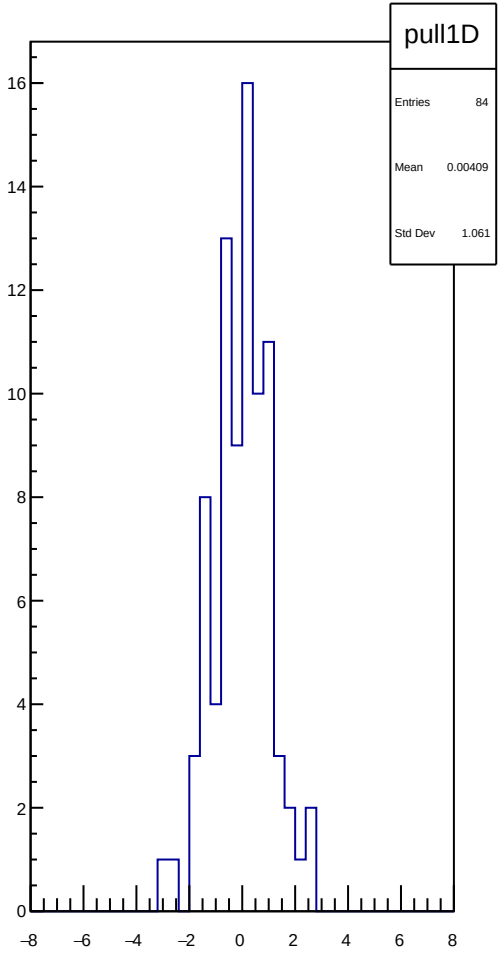

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 3253 / 83
p0 49 ± 0.03791
62
60
58
56
54
52
50
48
46
44

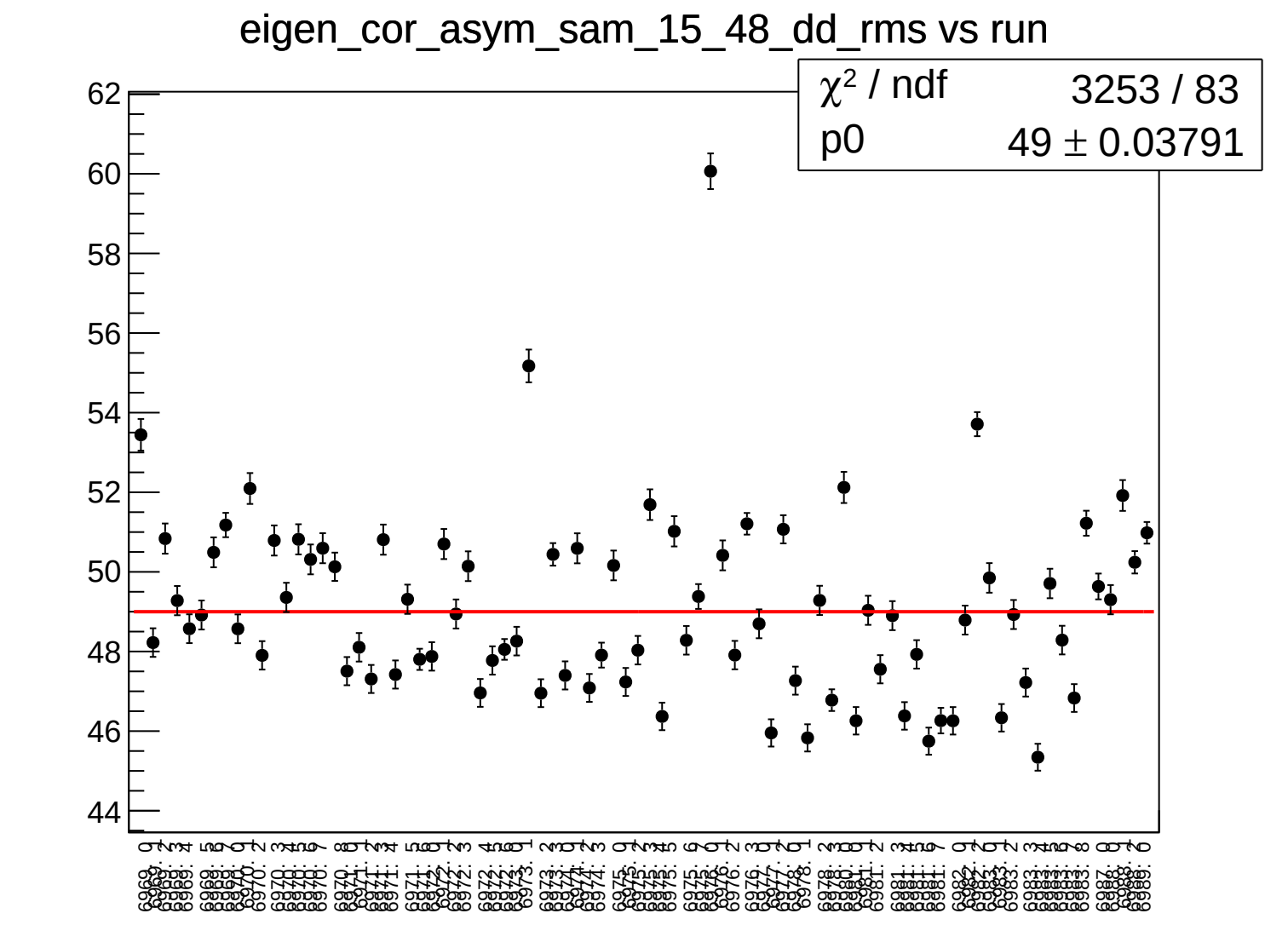

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 83.72 / 83
p0 329 ± 621.3
pull
Entries 84
Mean −1626
Std Dev 0

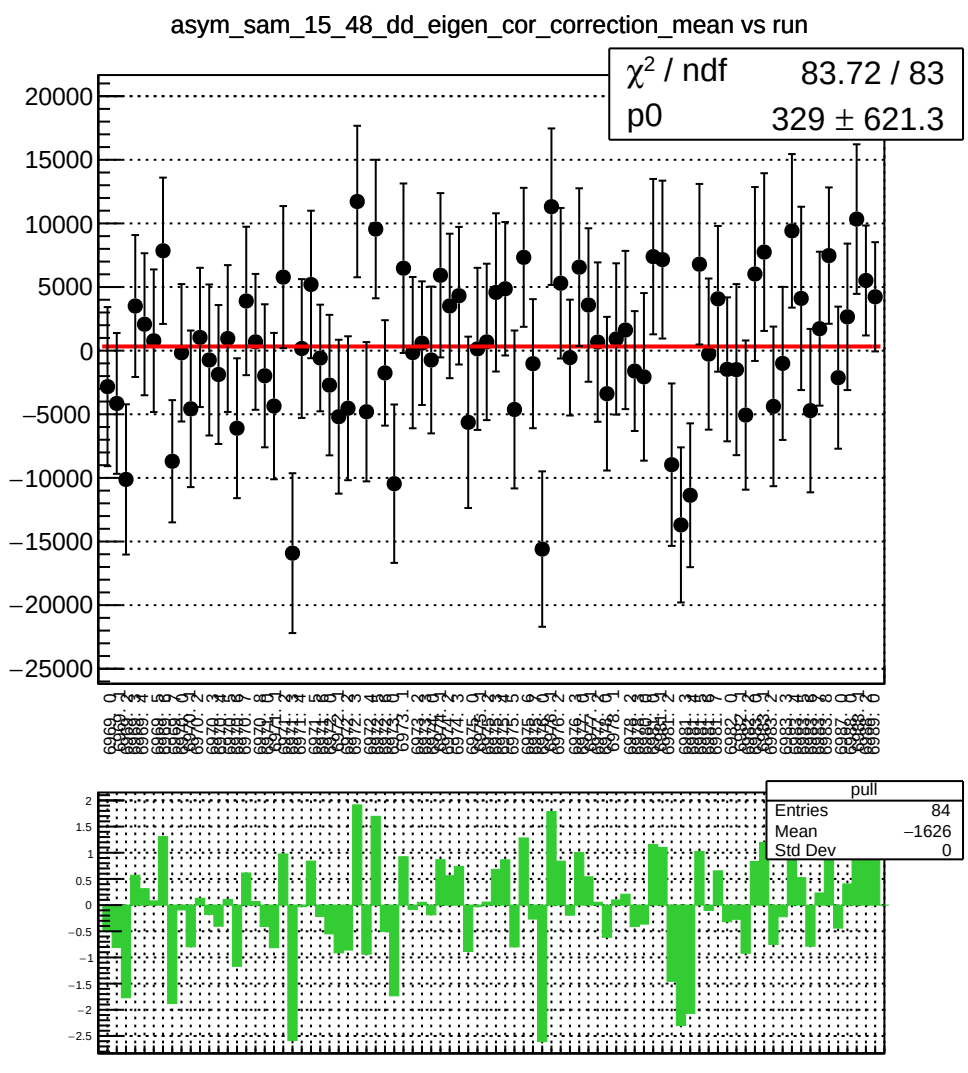

pull1D
Entries 84
Mean −0.003
Std Dev 0.9984

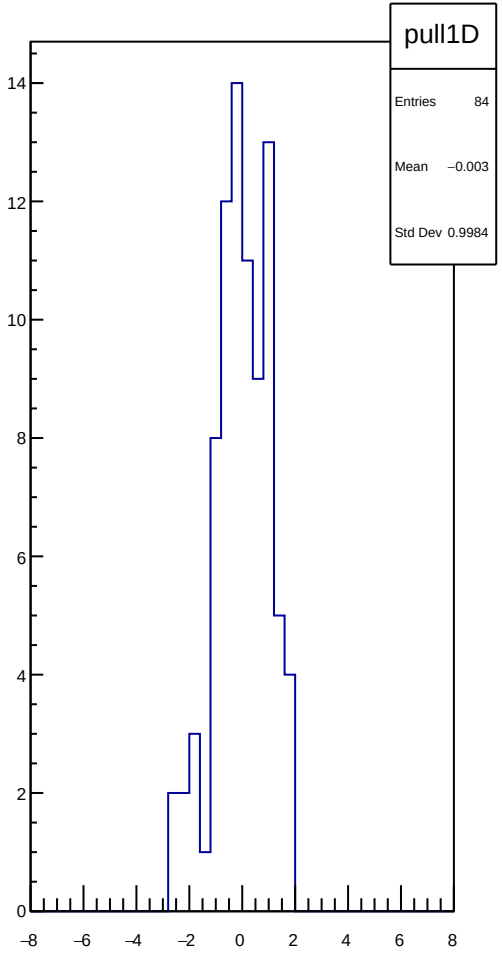

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 7945 / 83
p0 567 ± 0.4393
750
700
650
600
550
500

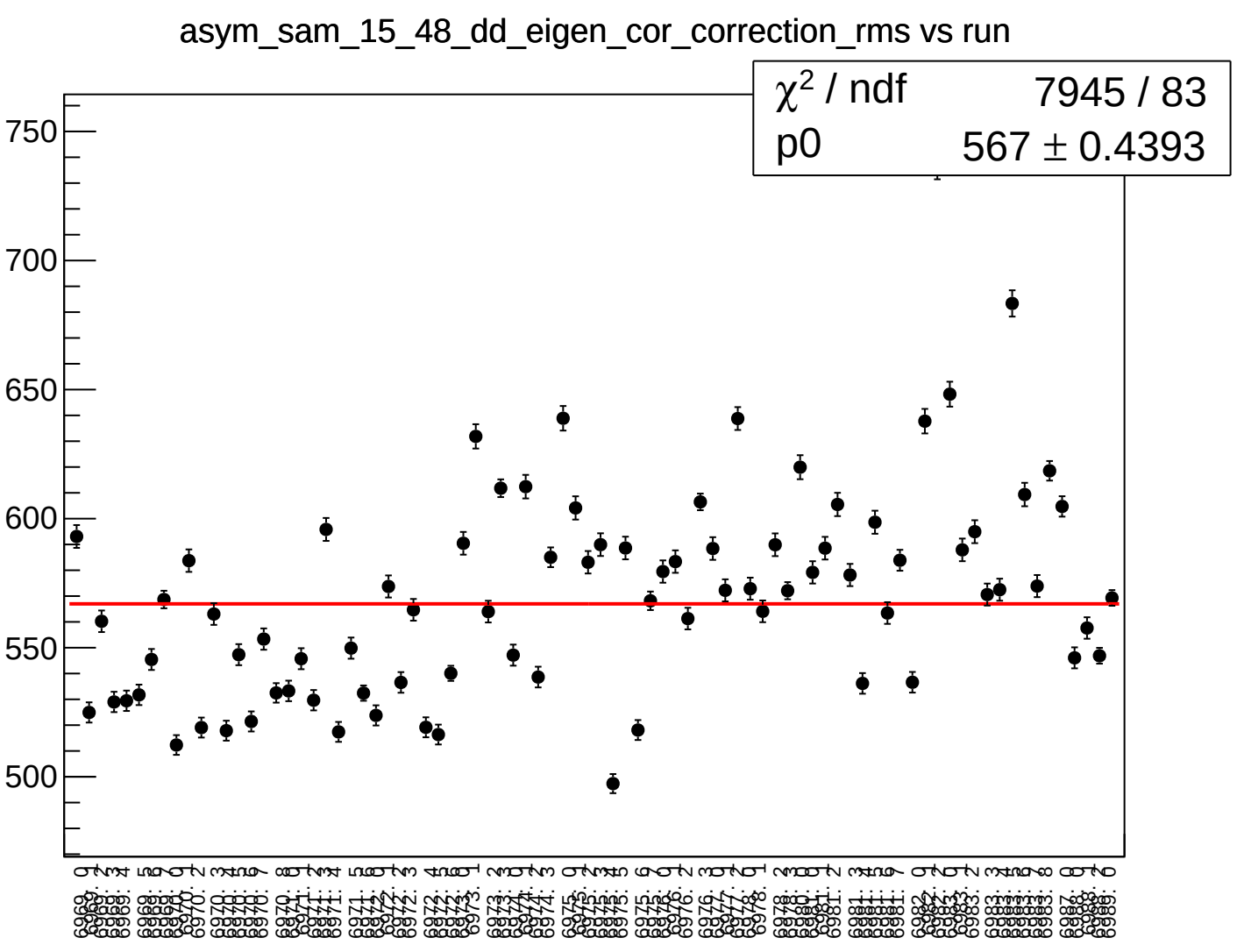

eigen_cor_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 94.55 / 83
p0 79.57 ± 53.62
pull
Entries 84
Mean 235.8
Std Dev 0

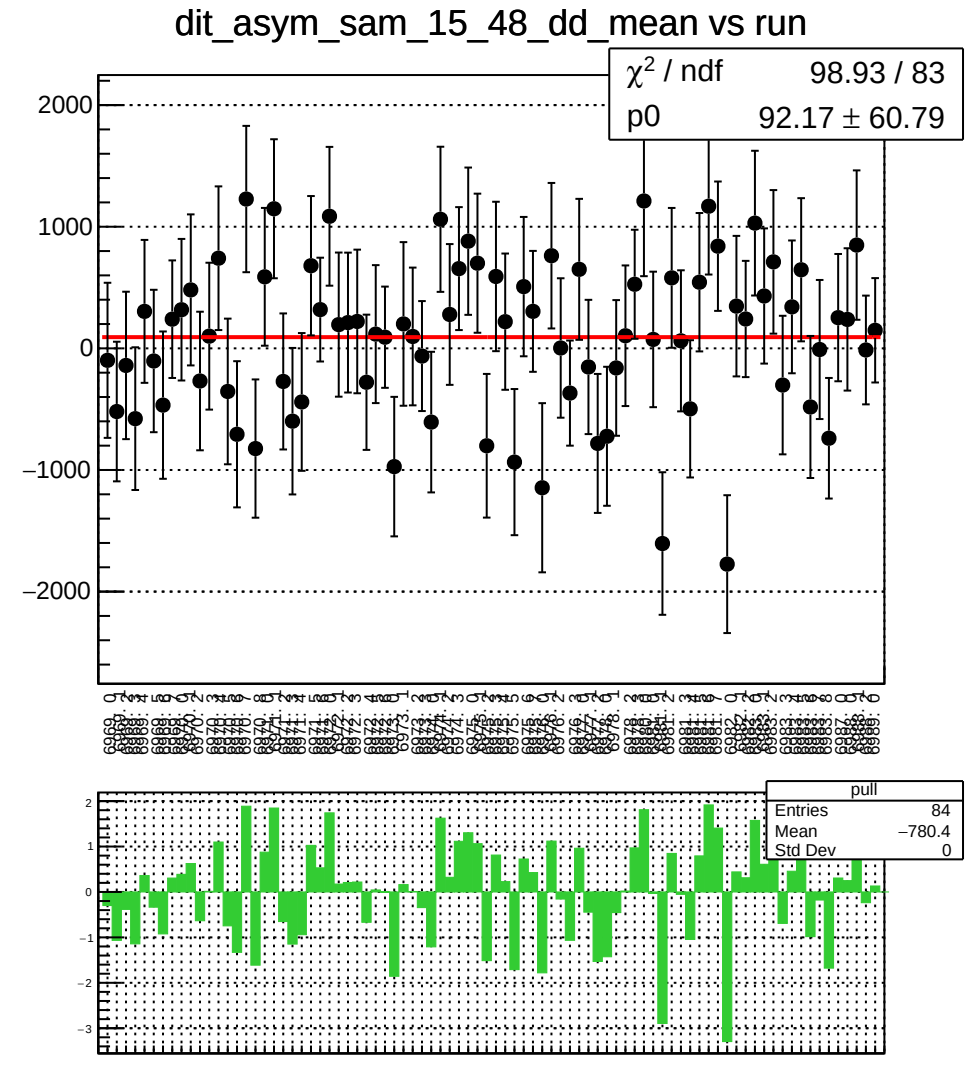

pull1D
Entries 84
Mean 0.00409
Std Dev 1.061

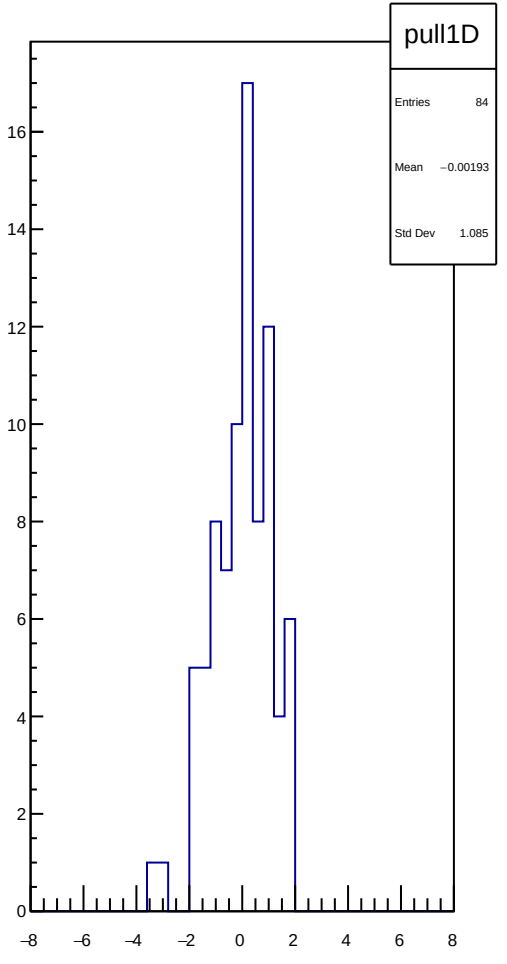

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 3253 / 83
p0 49 ± 0.03791
62
60
58
56
54
52
50
48
46
44

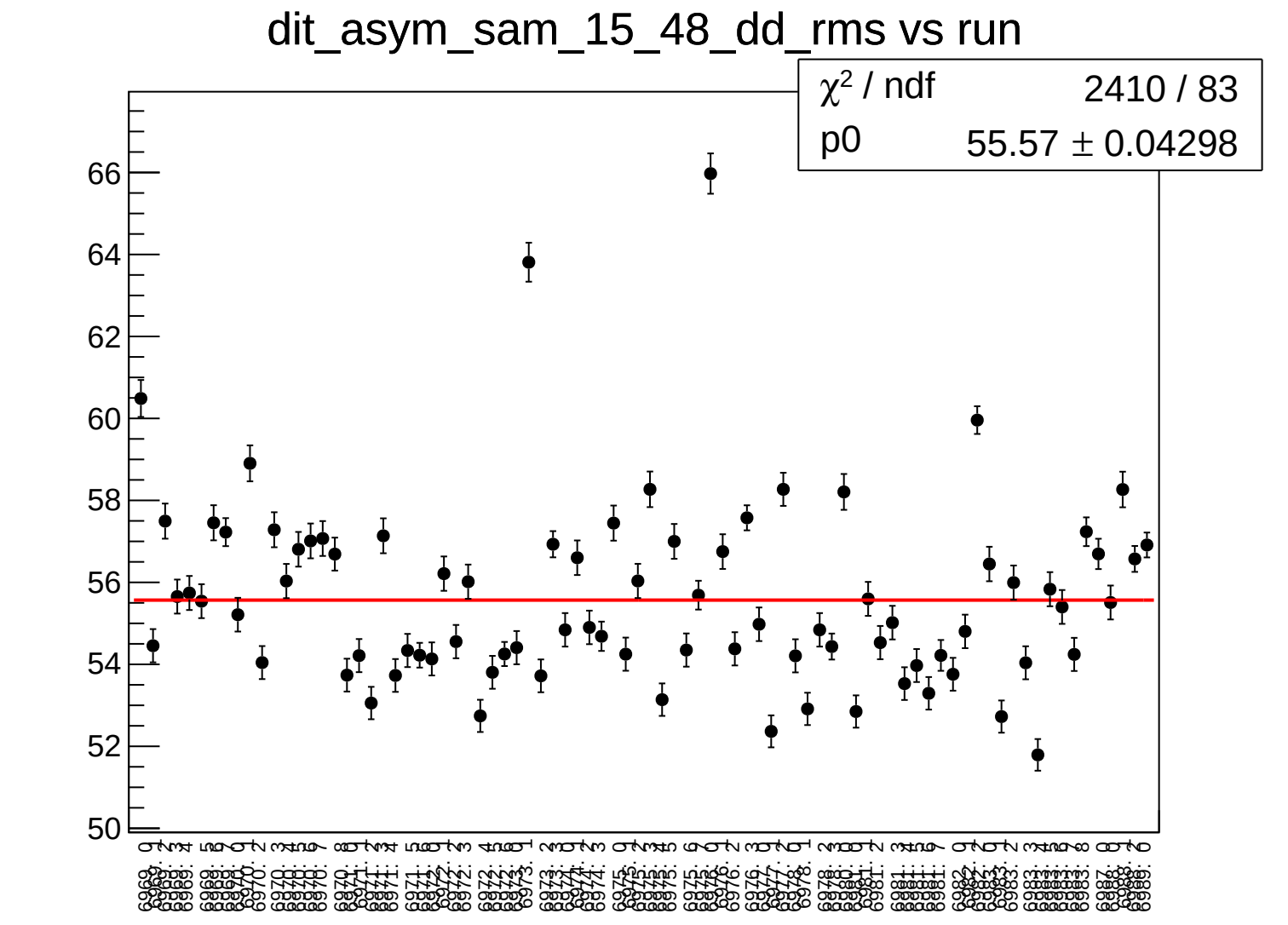

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.72 / 83
p0 329 ± 621.3
pull
Entries 84
Mean −1626
Std Dev 0

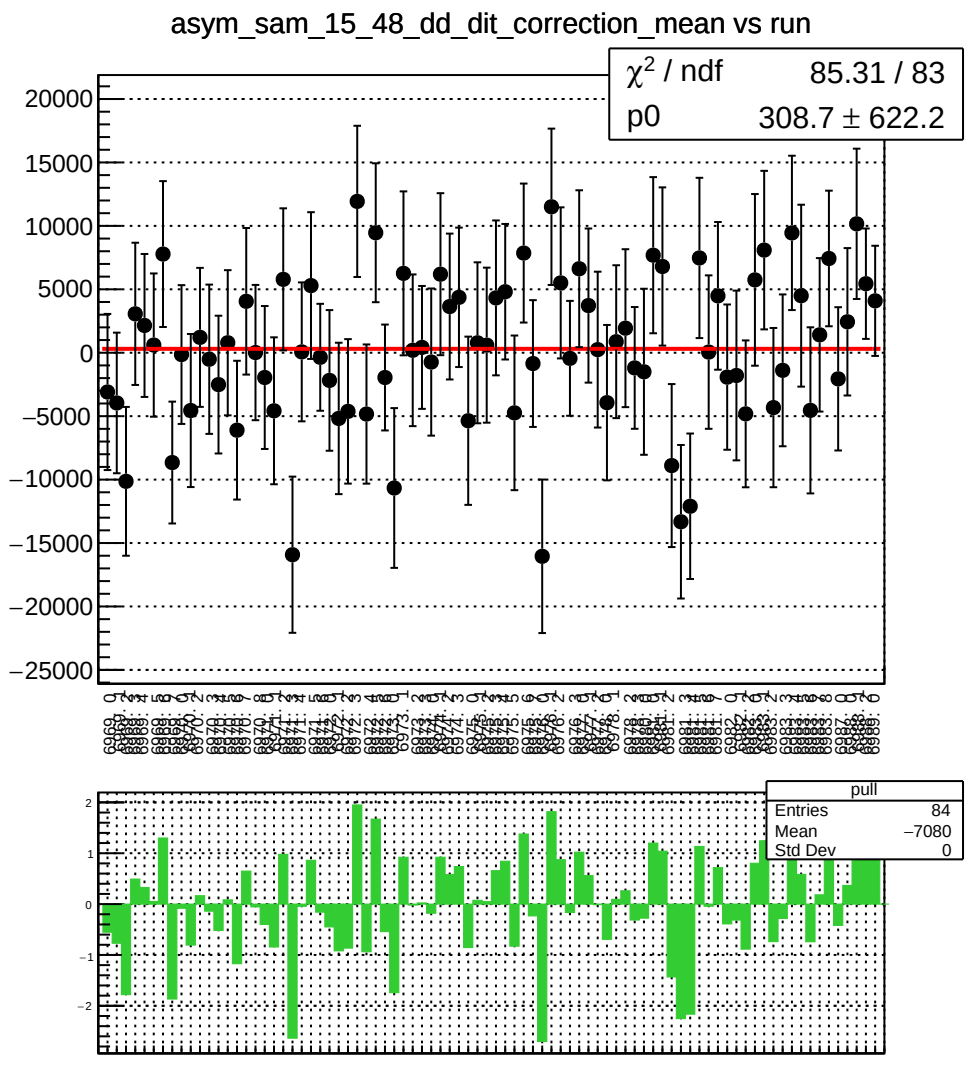

pull1D
Entries 84
Mean −0.003
Std Dev 0.9984

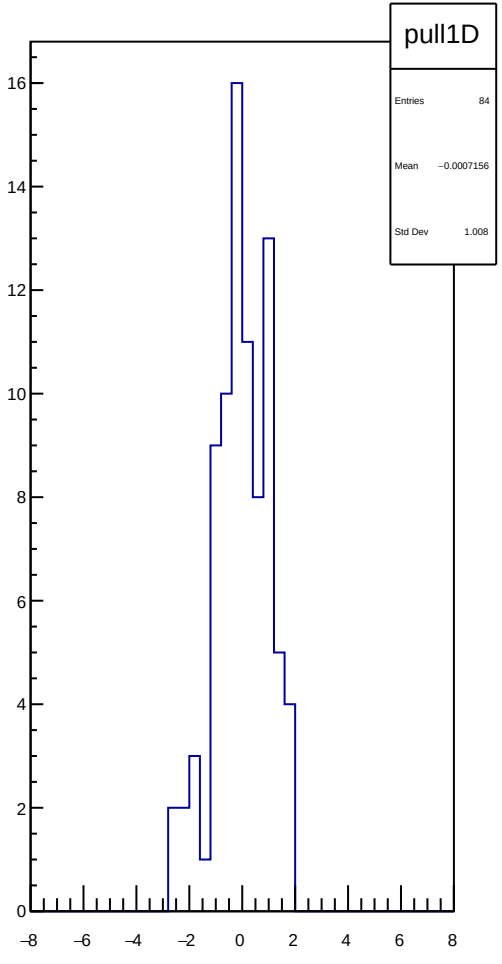

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7945 / 83
p0 567 ± 0.4393
750
700
650
600
550
500

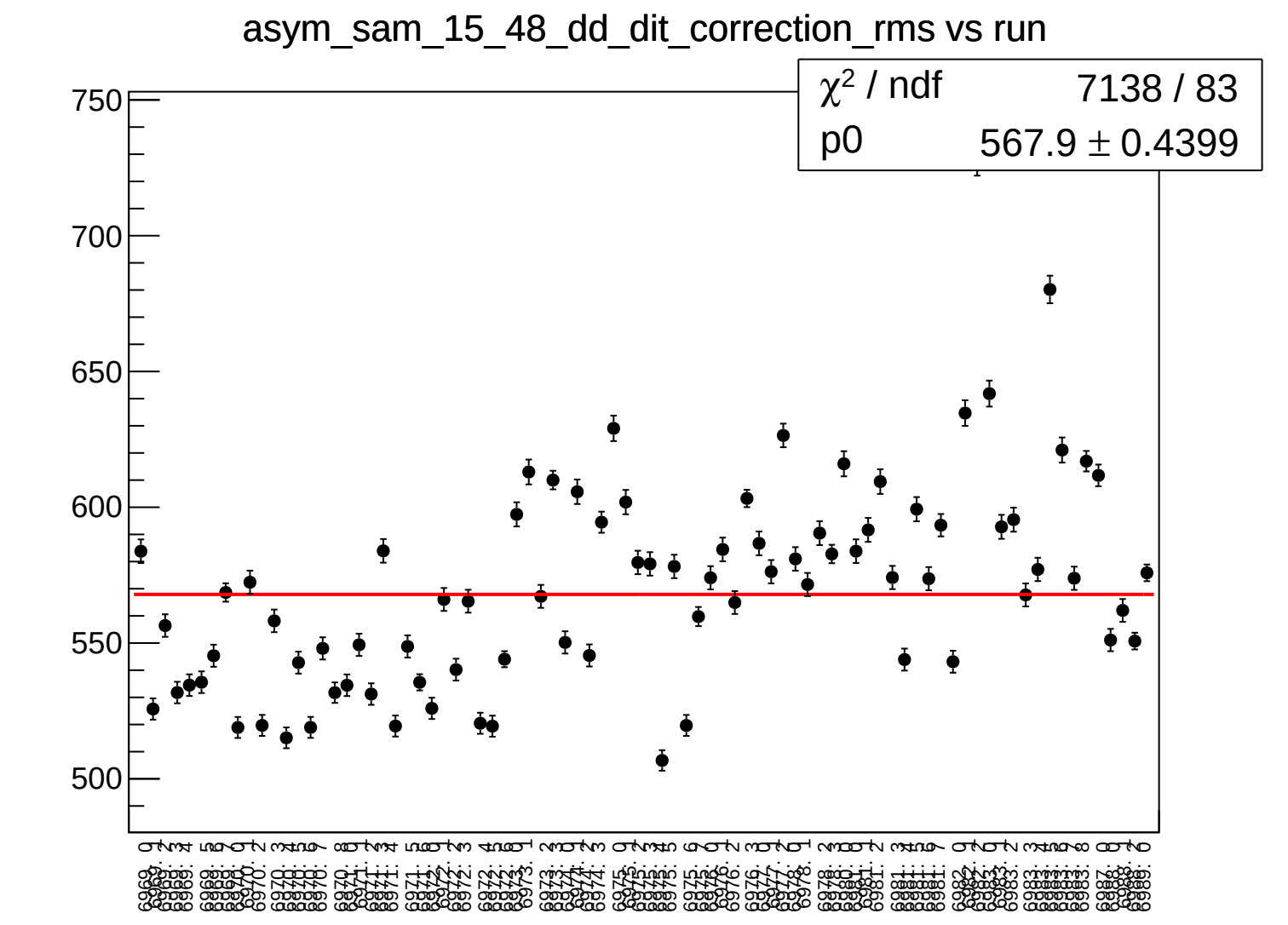

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 98.93 / 83
p0 92.17 ± 60.79
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −780.4
Std Dev 0

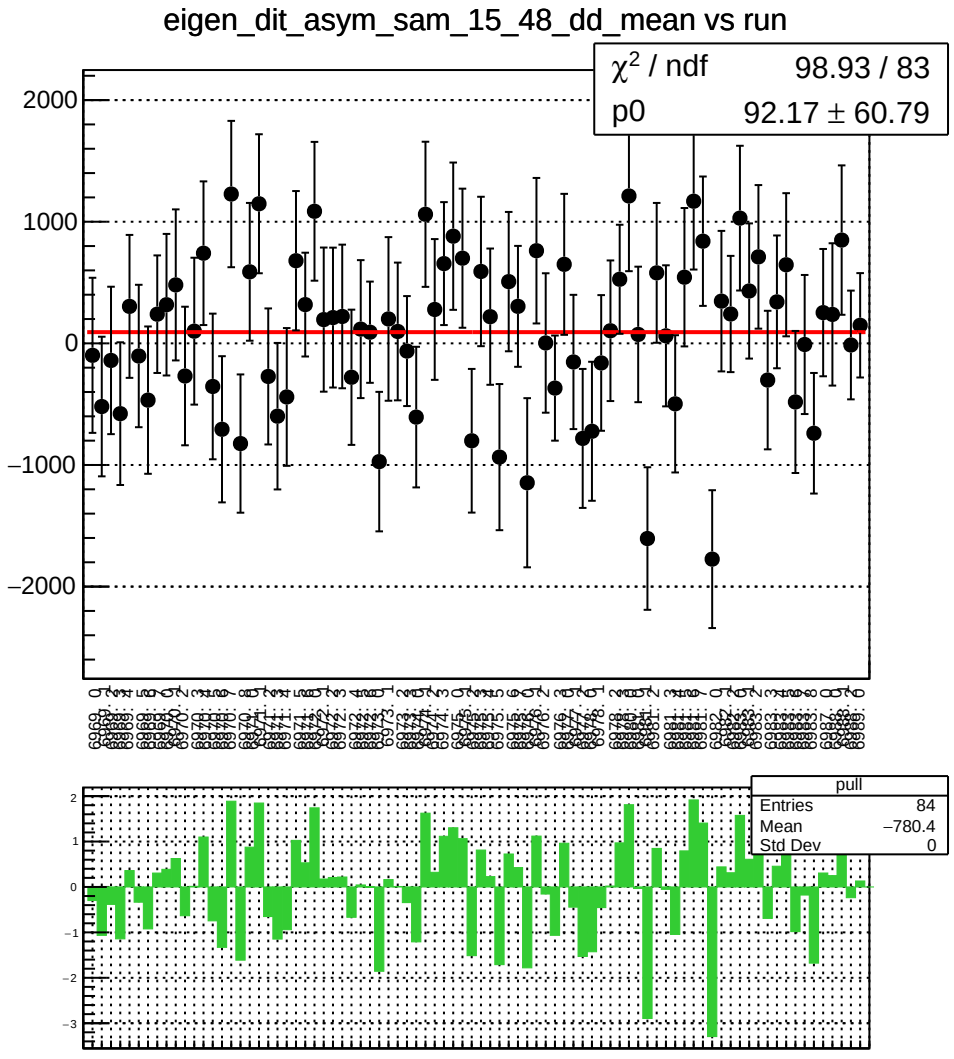

pull1D
Entries 84
Mean −0.00193
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

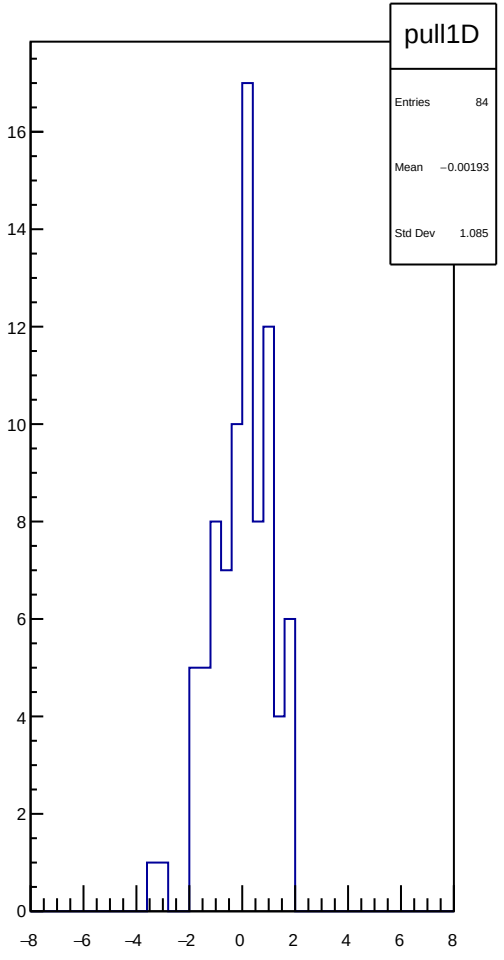

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2410 / 83
p0 55.57 ± 0.04298
66
64
62
60
58
56
54
52
50

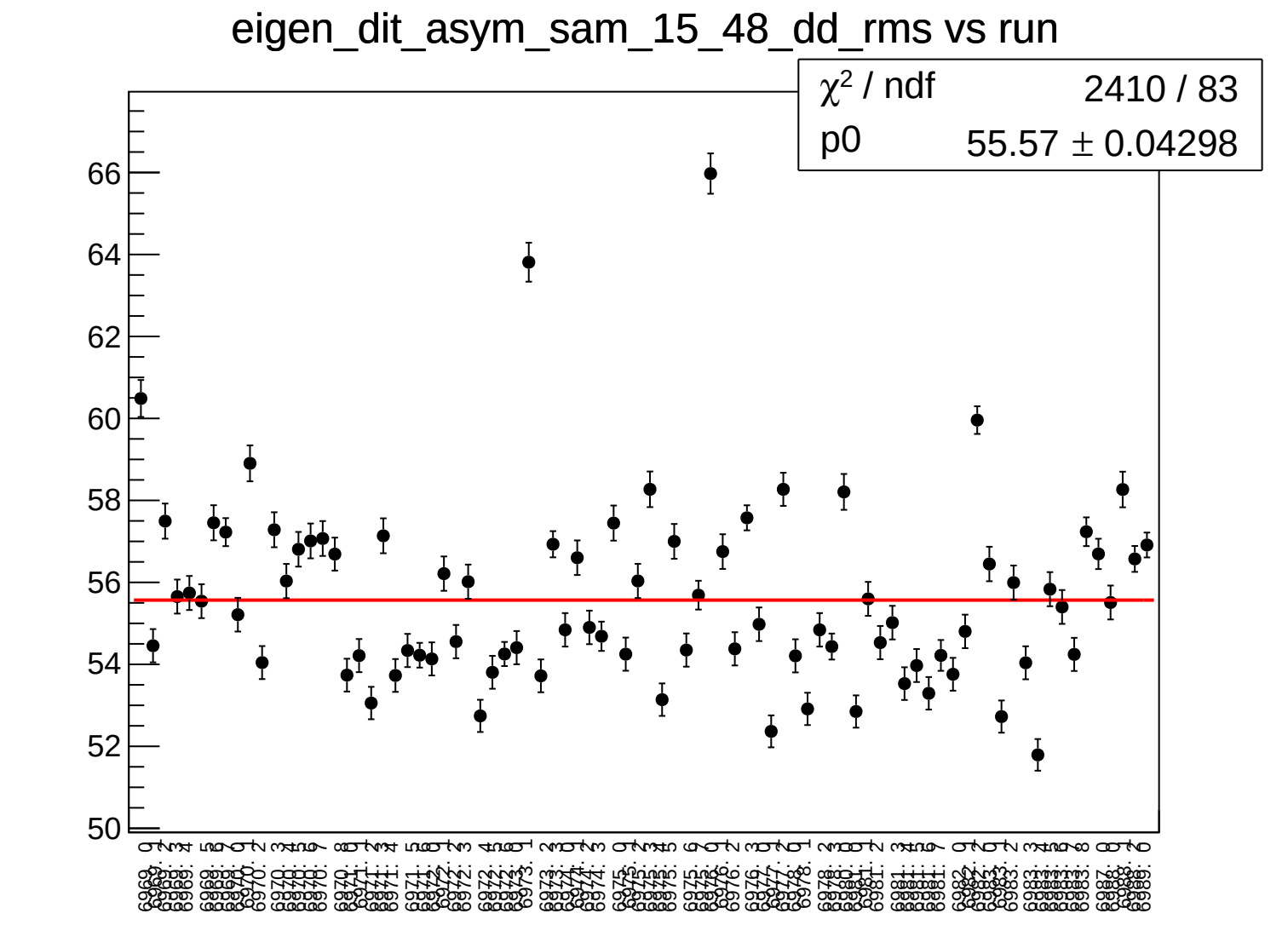

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 85.31 / 83
p0 308.7 ± 622.2
pull
Entries 84
Mean −7080
Std Dev 0

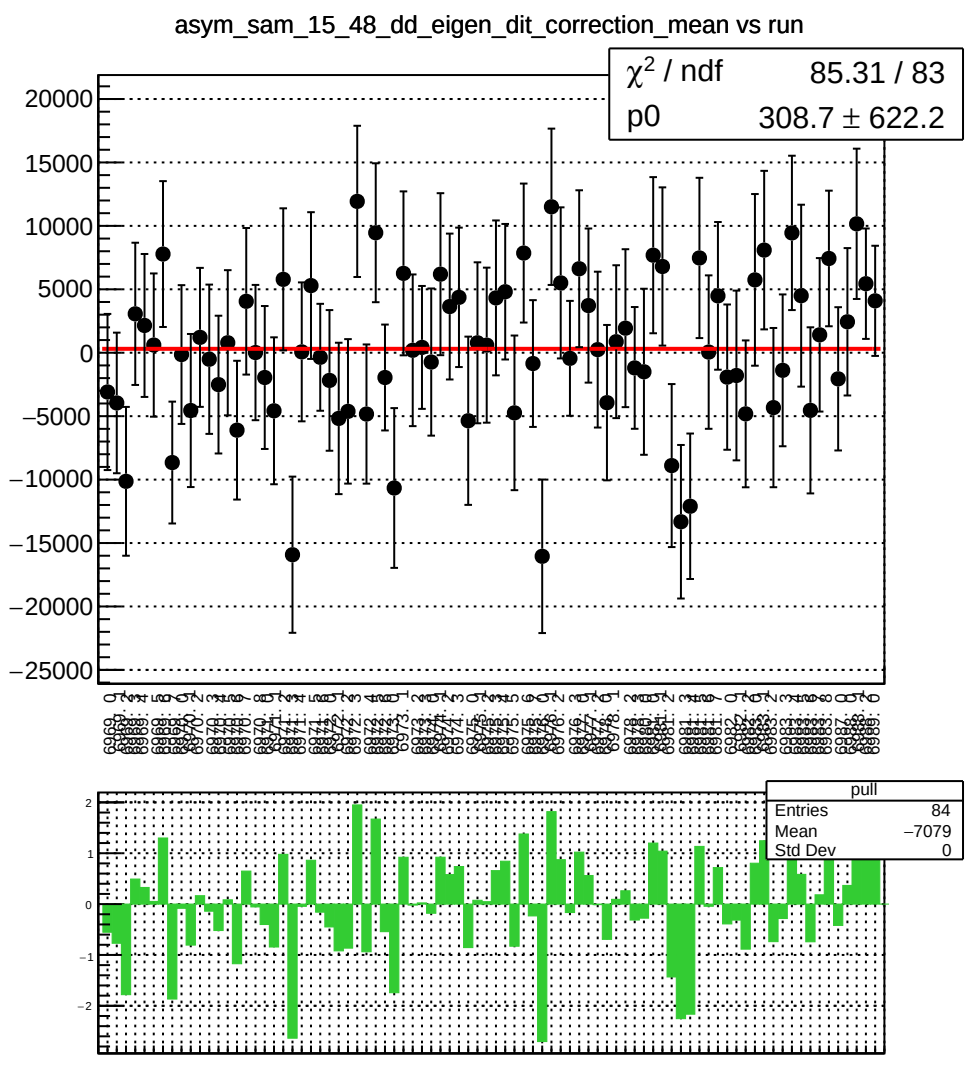

pull1D
Entries 84
Mean −0.0007156
Std Dev 1.008

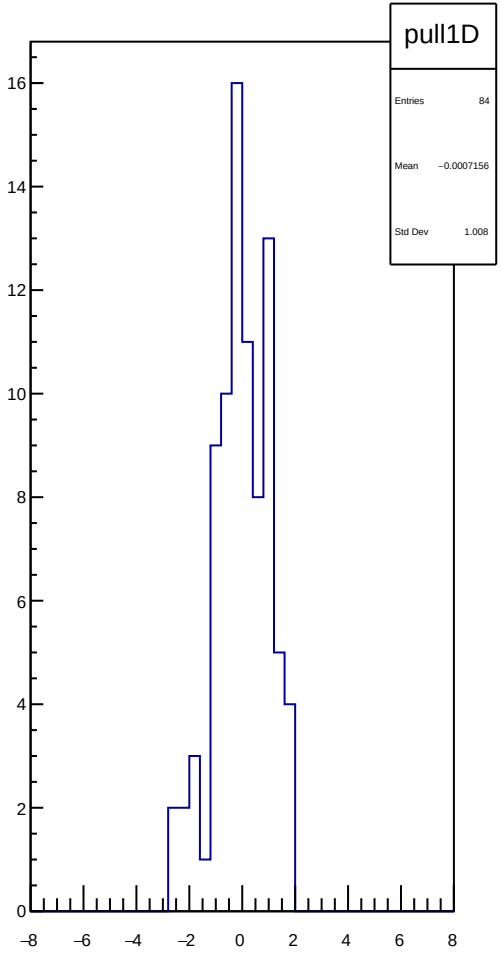

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 7138 / 83
p0 567.9 ± 0.4399
750
700
650
600
550
500

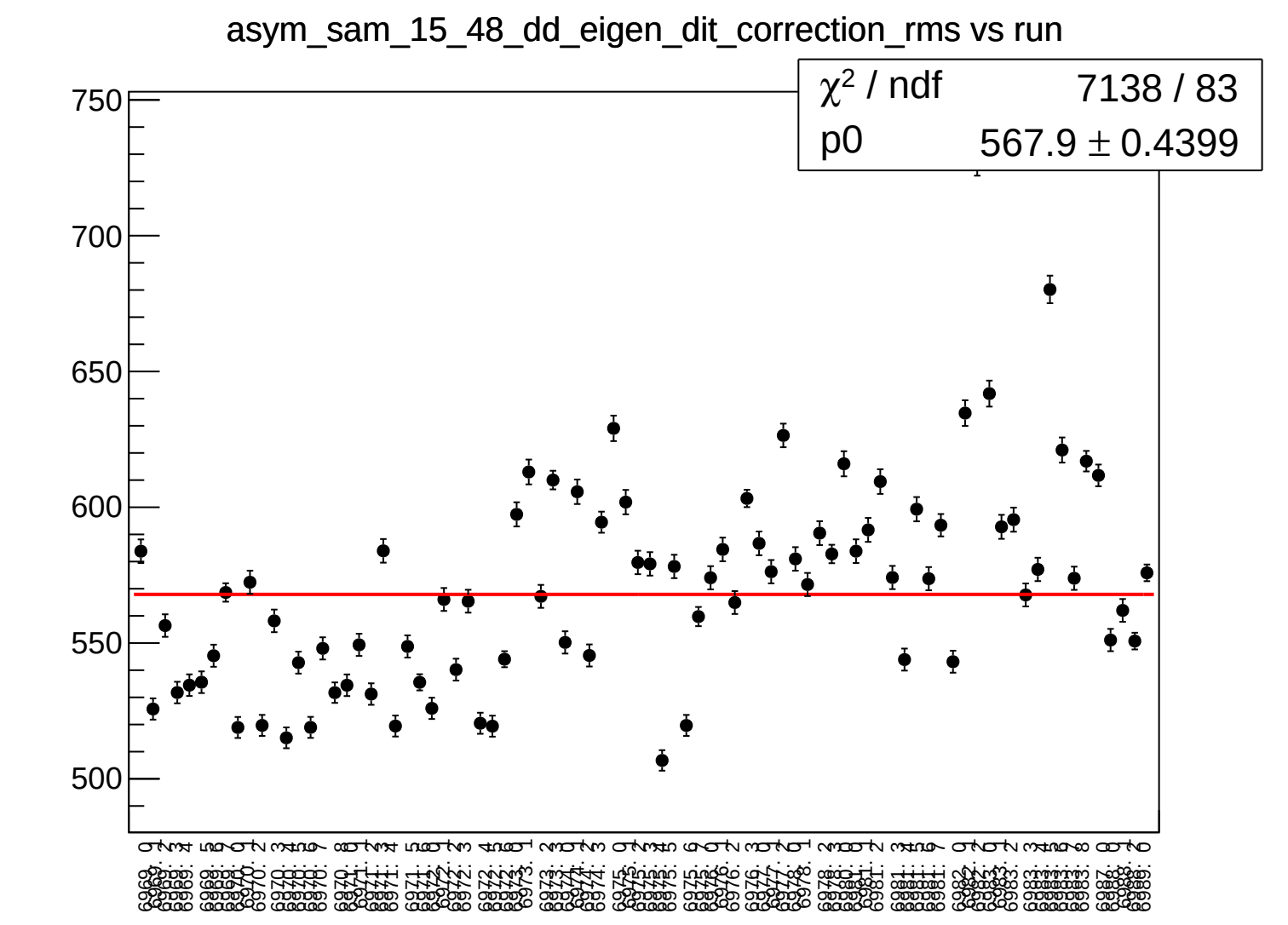

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 98.93 / 83
p0 92.17 ± 60.79
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −780.4
Std Dev 0
2
1
0
−1
−2
−3

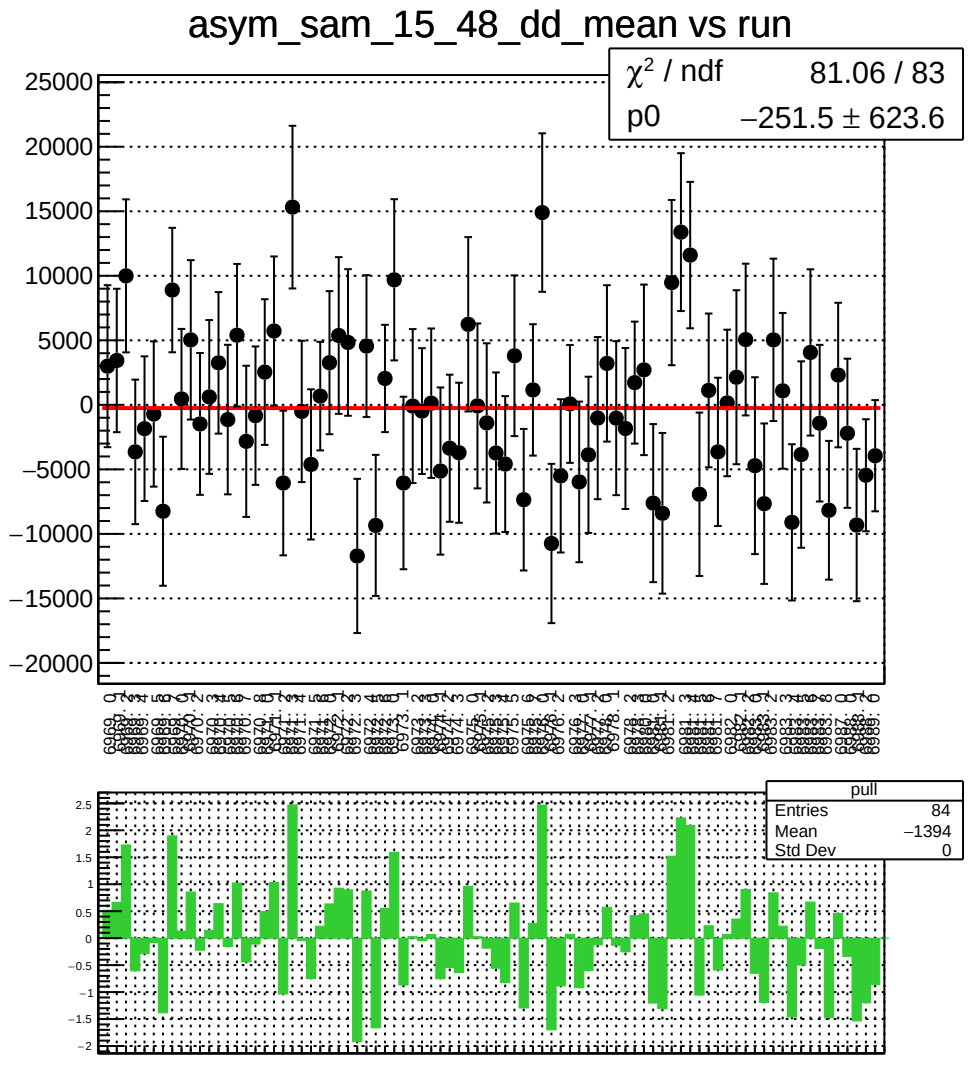

pull1D
Entries 84
Mean −0.00193
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

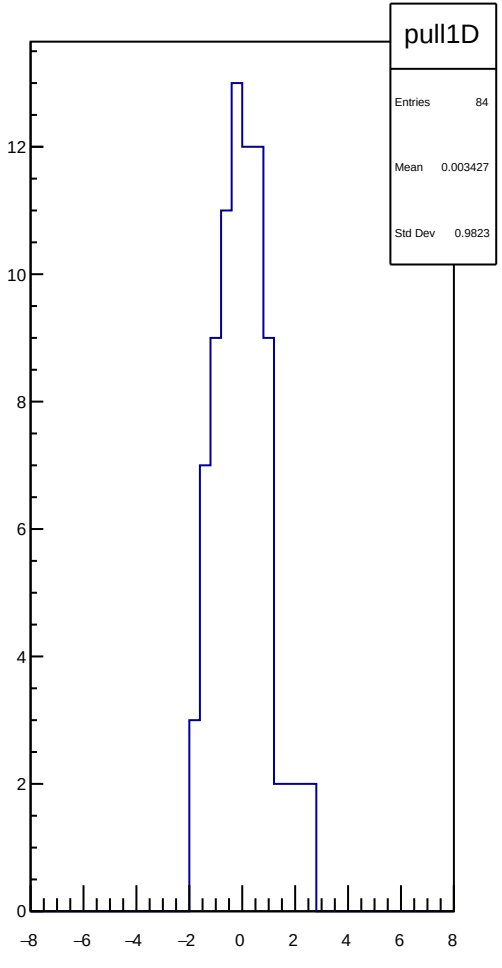

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2410 / 83
p0 55.57 ± 0.04298
66
64
62
60
58
56
54
52
50

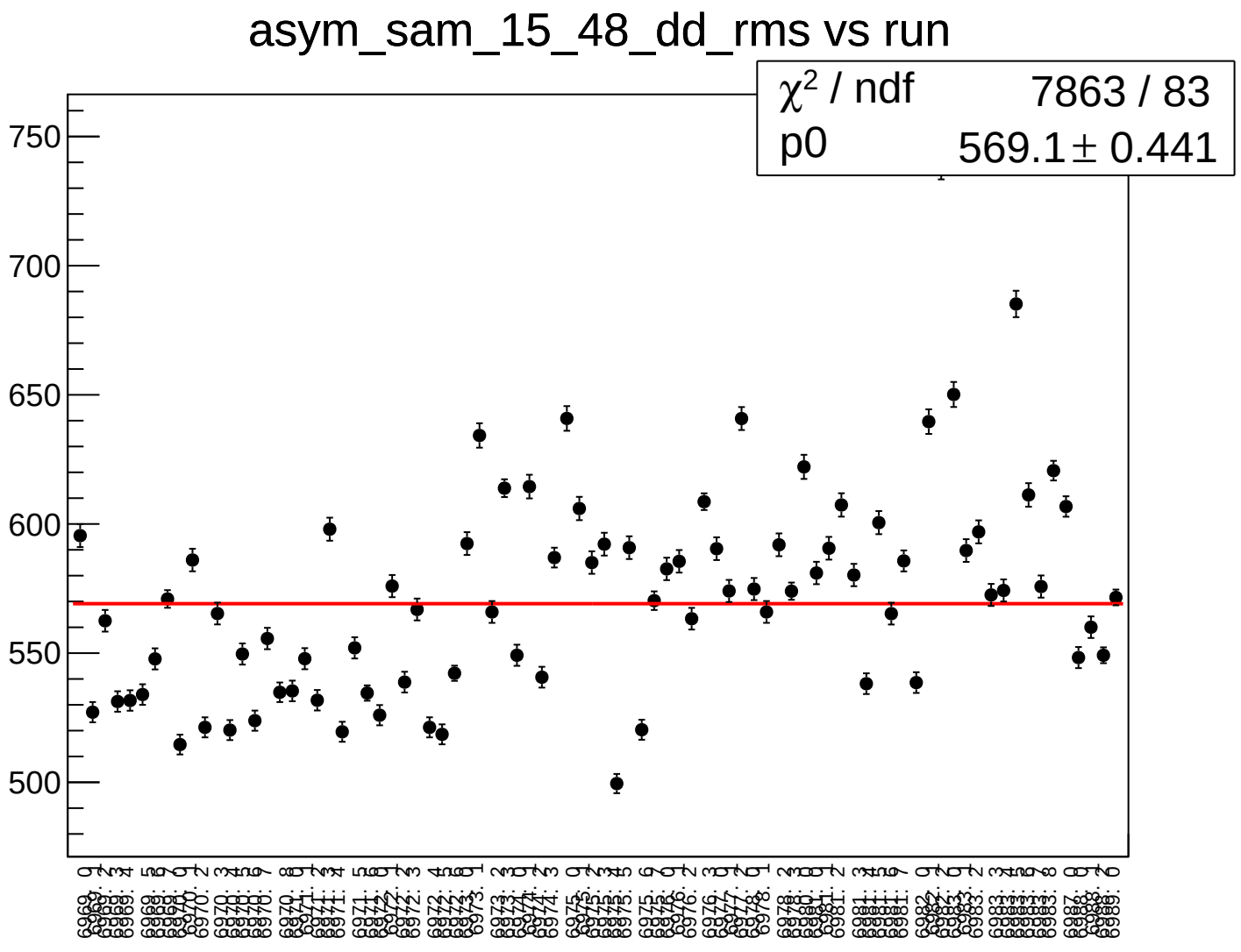

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.31 / 83
p0 308.7 ± 622.2
pull
Entries 84
Mean −7079
Std Dev 0

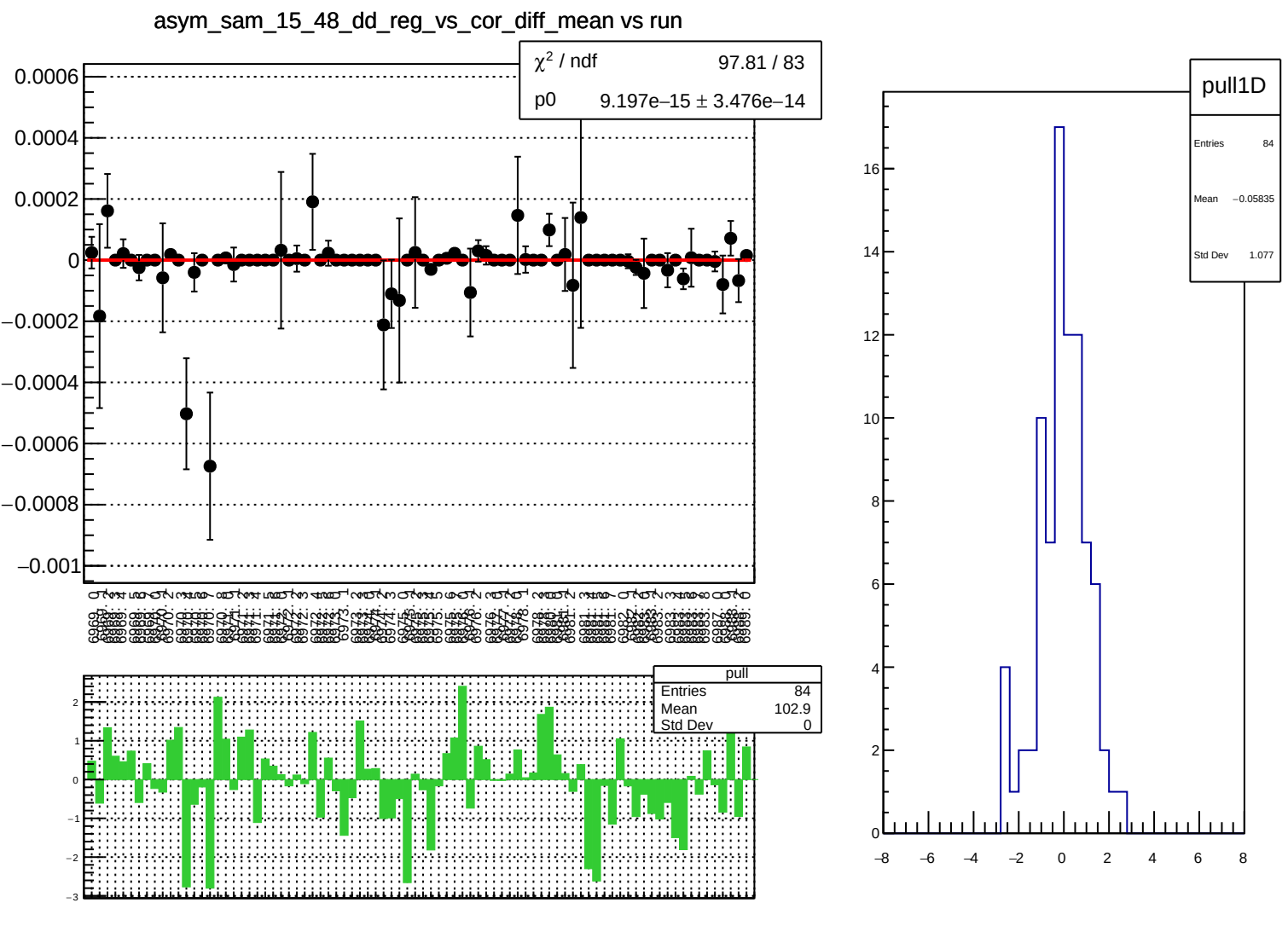

pull1D
Entries 84
Mean −0.0007156
Std Dev 1.008

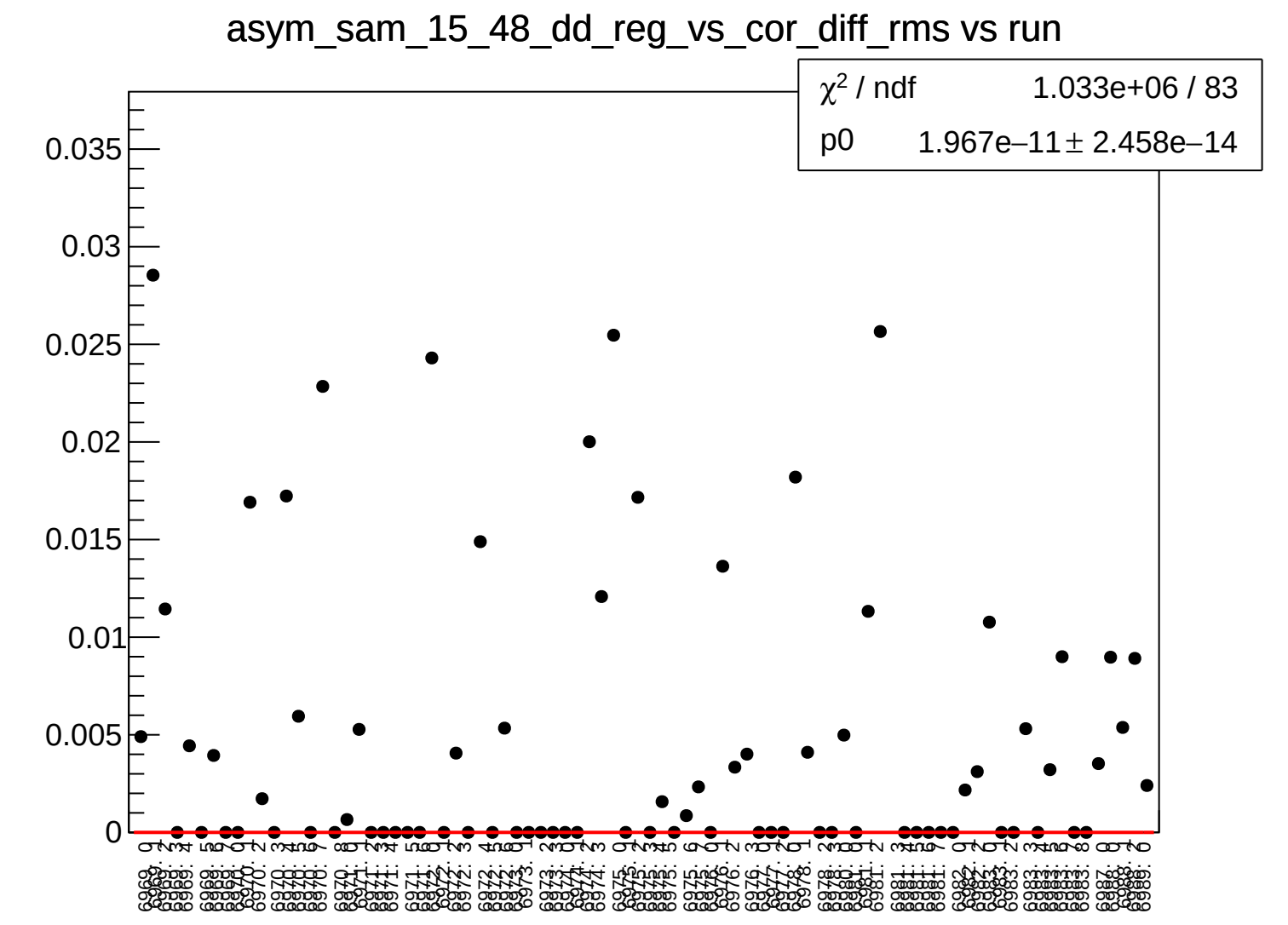

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 7138 / 83
p0 567.9 ± 0.4399
750
700
650
600
550
500

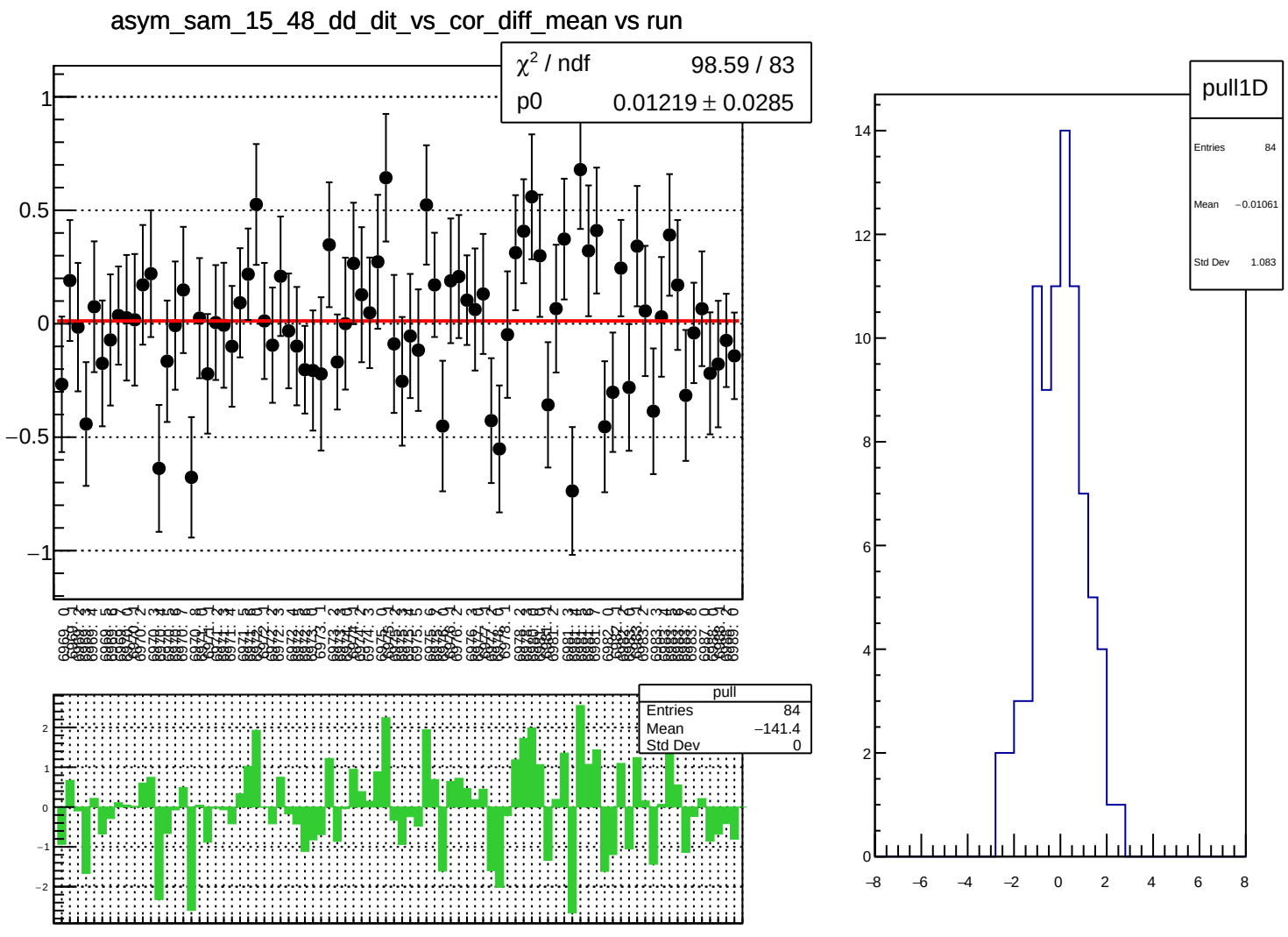

asym_sam_15_48_dd_mean vs run
χ² / ndf 81.06 / 83
p0 −251.5 ± 623.6
pull
Entries 84
Mean −1394
Std Dev 0

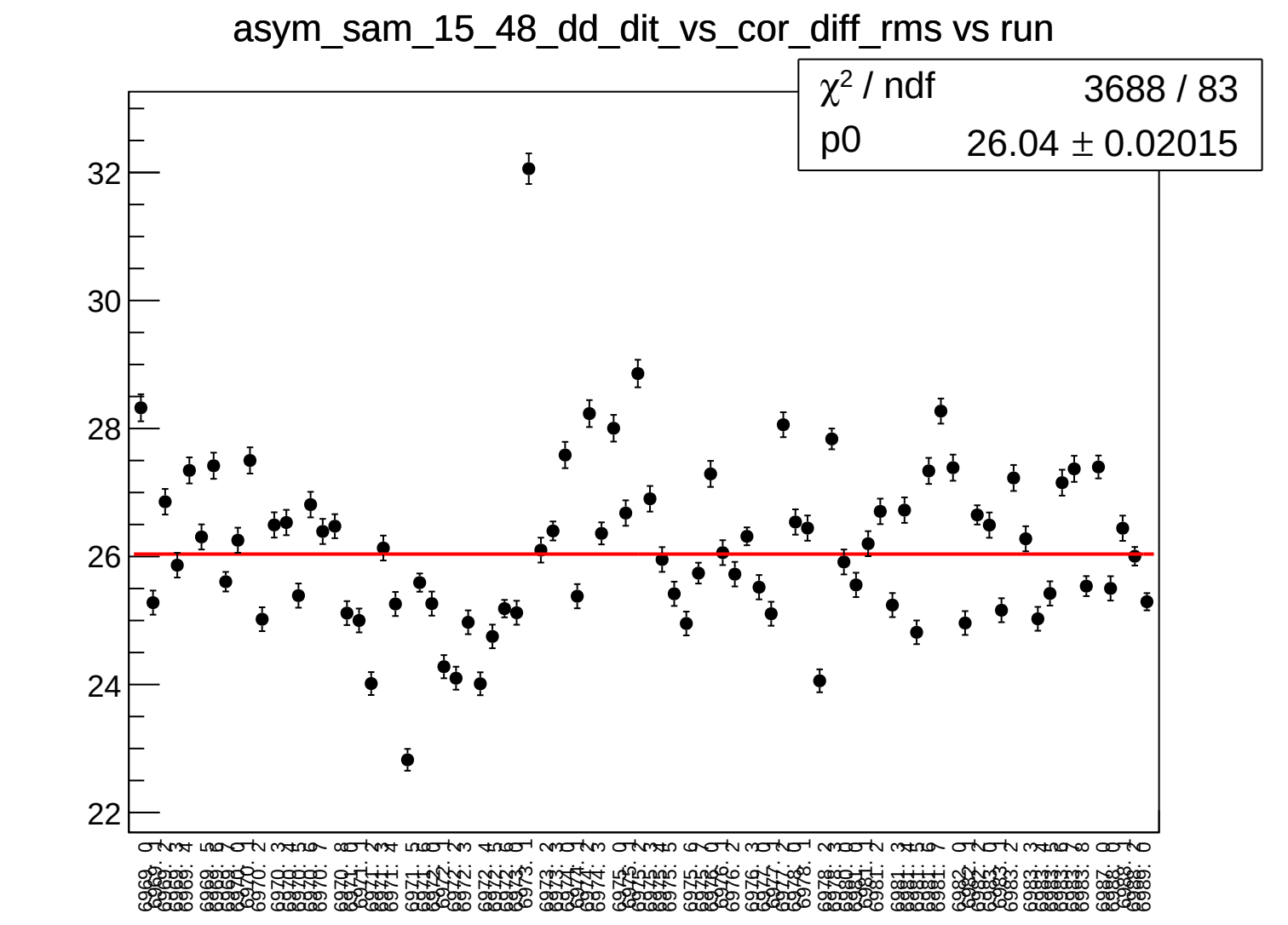

pull1D
Entries 84
Mean 0.003427
Std Dev 0.9823

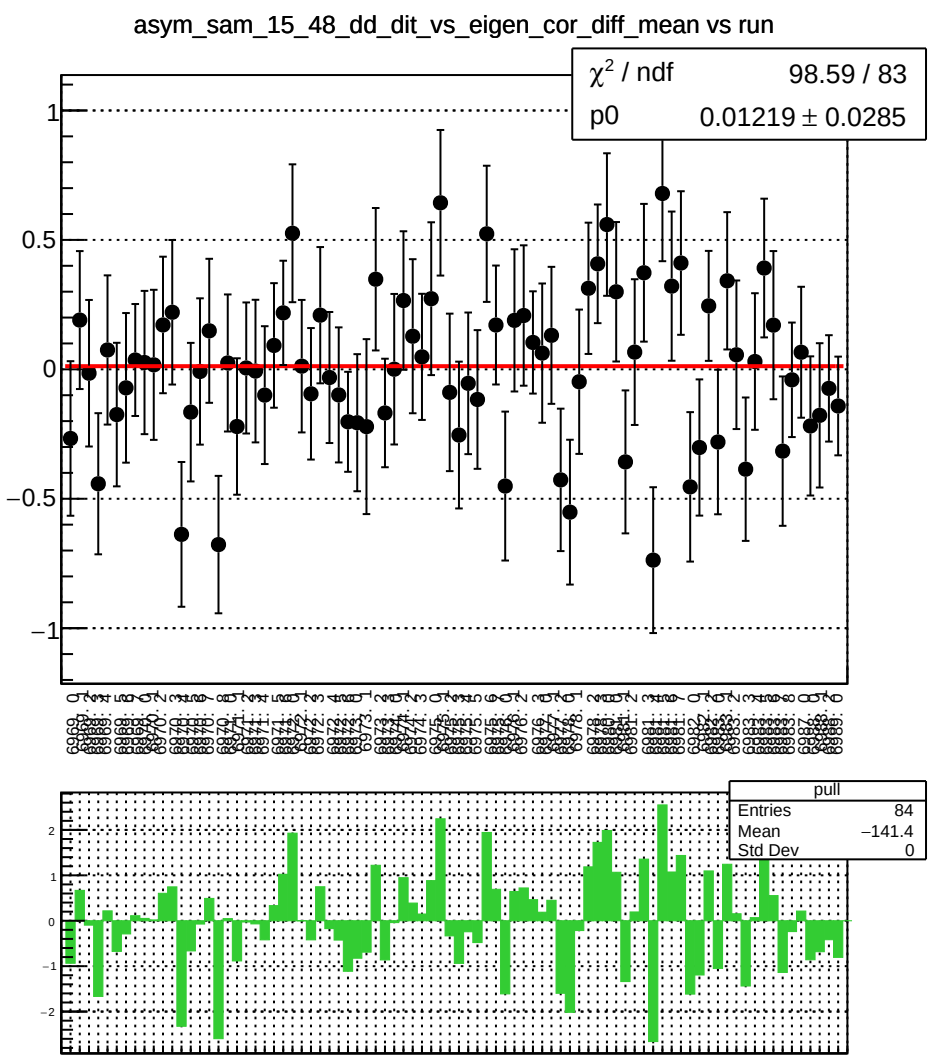

asym_sam_15_48_dd_rms vs run
χ² / ndf 7863 / 83
p0 569.1 ± 0.441
750
700
650
600
550
500

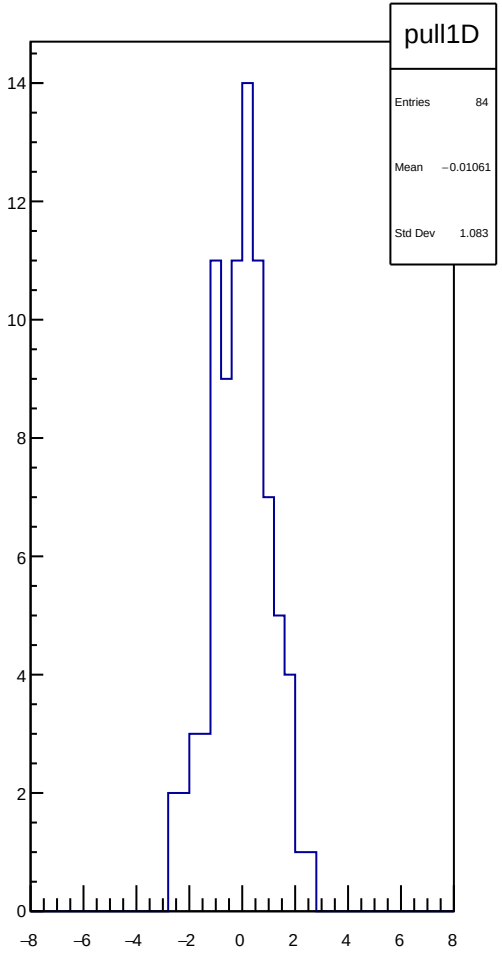

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.81 / 83
p0 9.197e−15 ± 3.476e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 84
Mean 102.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.05835
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

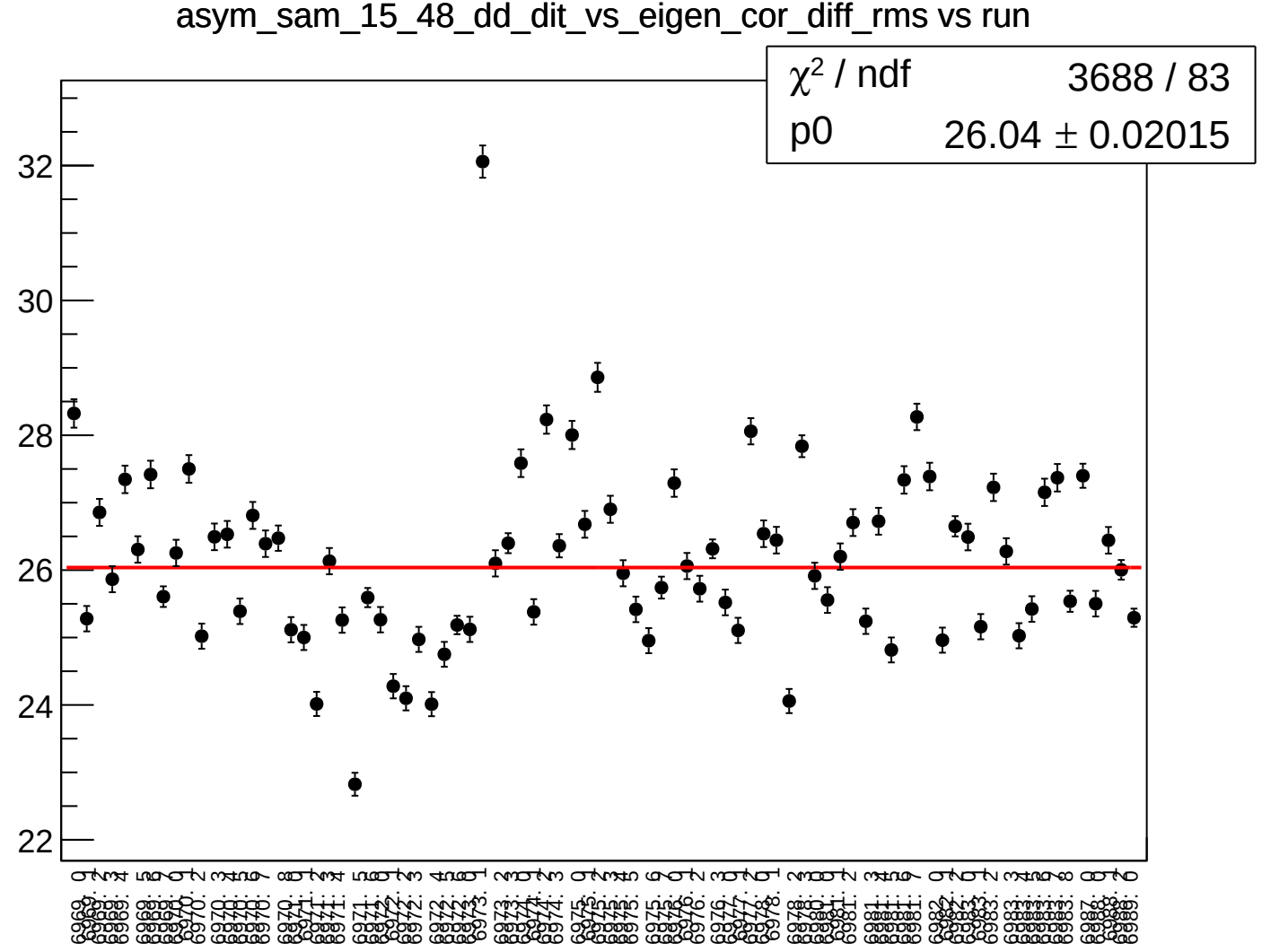

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 83
p0 1.967e−11 ± 2.458e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

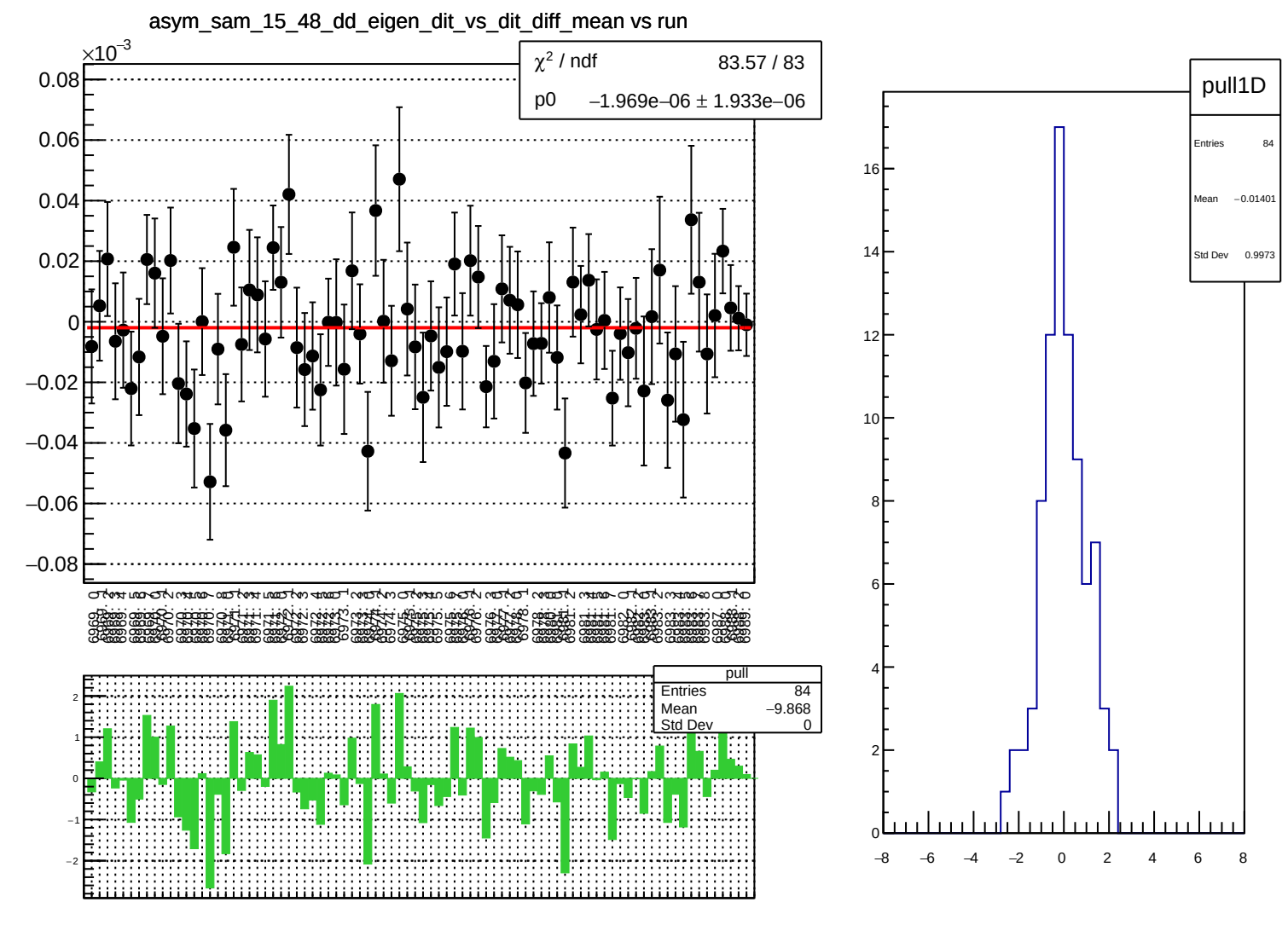

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.59 / 83
p0 0.01219 ± 0.0285
pull
Entries 84
Mean −141.4
Std Dev 0
pull1D
Entries 84
Mean −0.01061
Std Dev 1.083

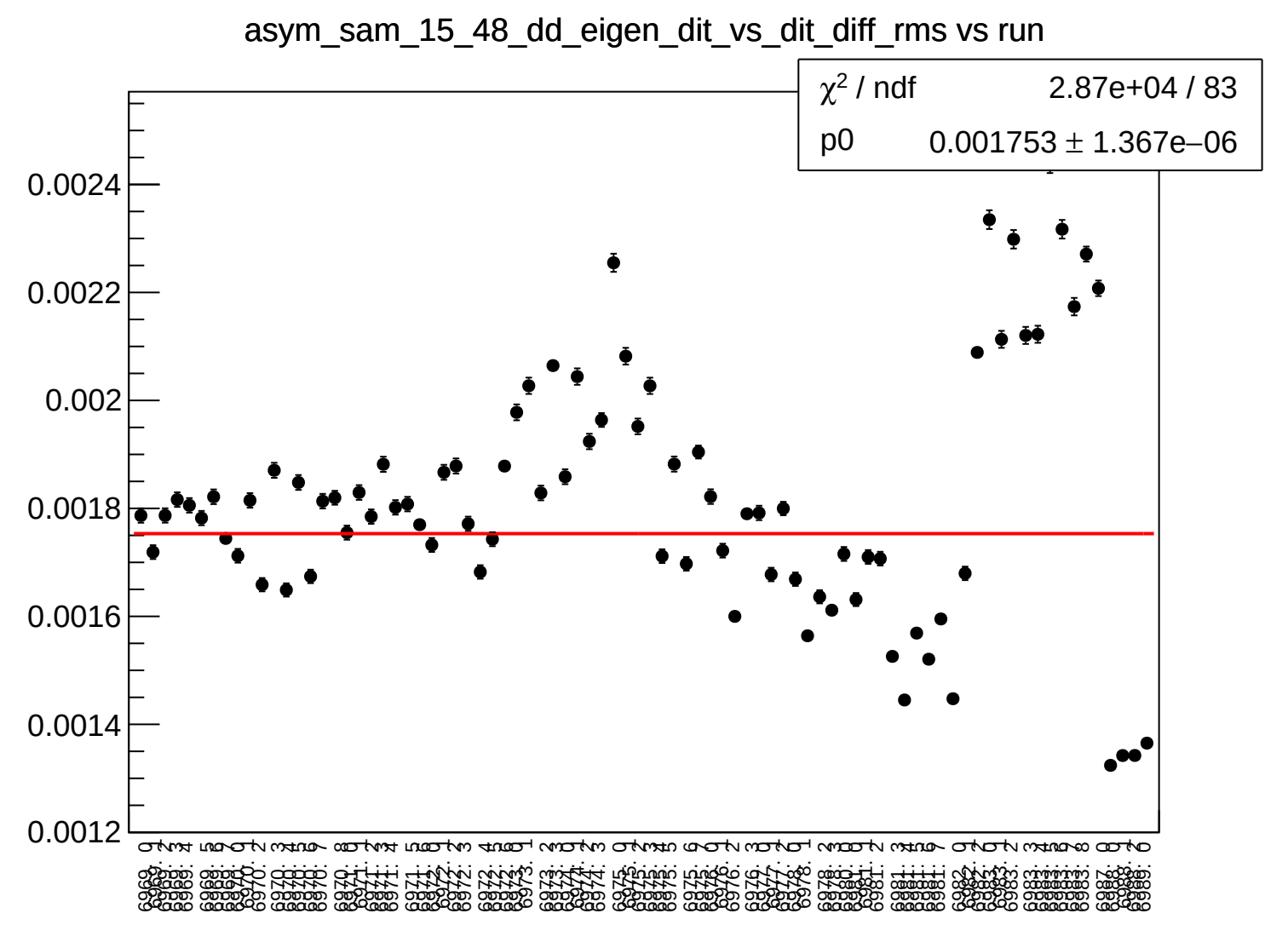

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3688 / 83
p0 26.04 ± 0.02015
32
30
28
26
24
22

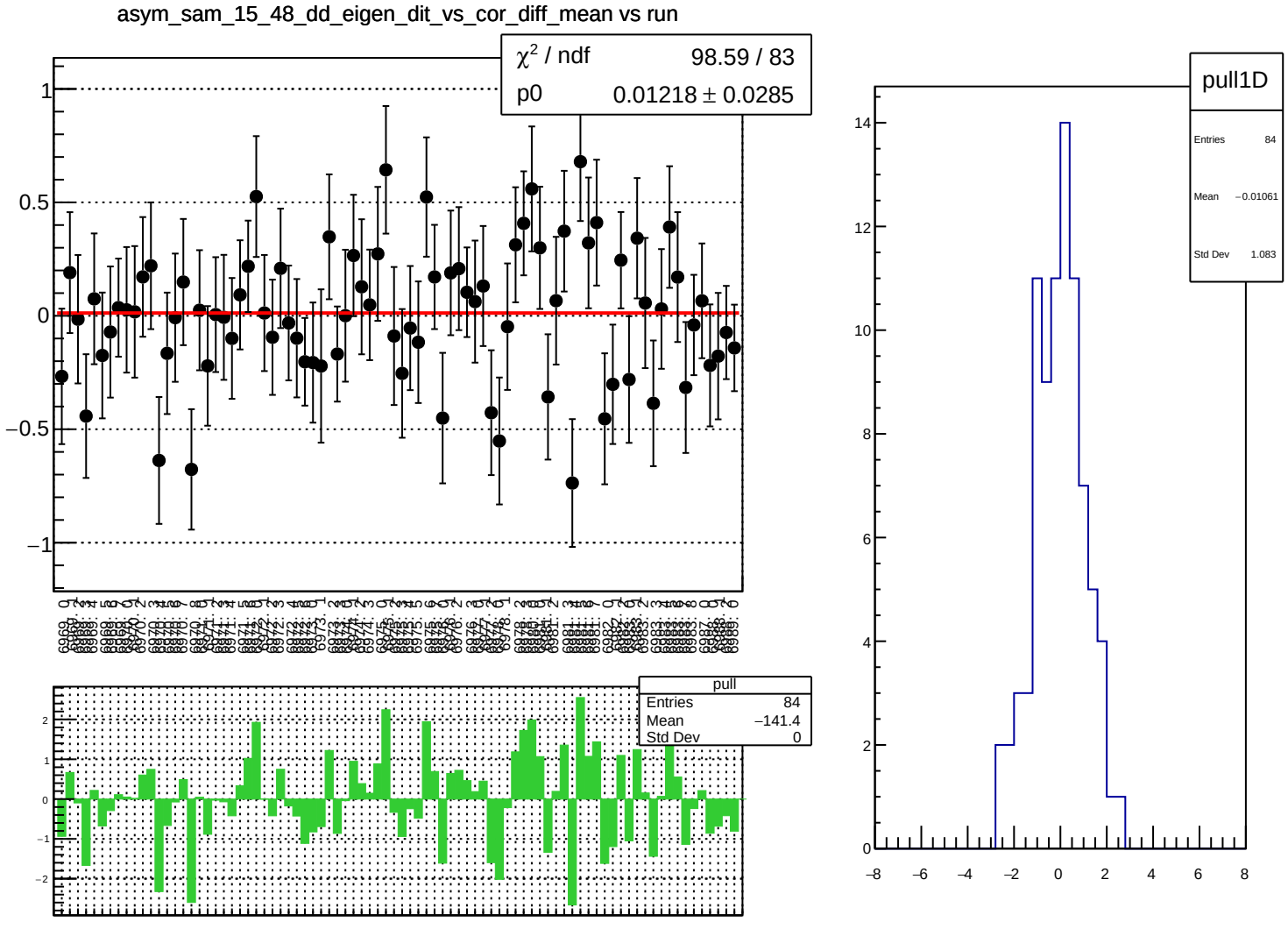

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.59 / 83
p0 0.01219 ± 0.0285
pull
Entries 84
Mean −141.4
Std Dev 0

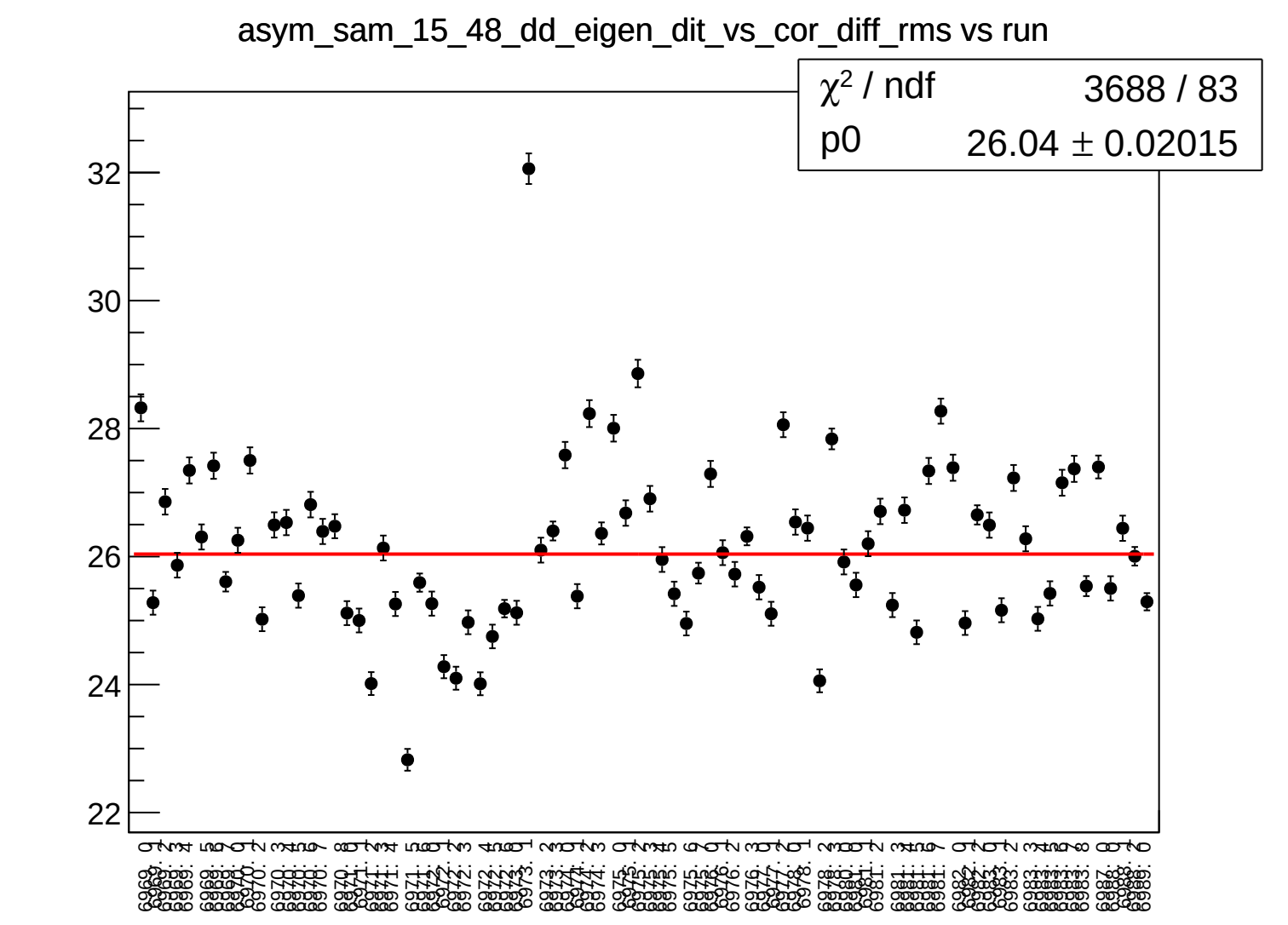

pull1D
Entries 84
Mean −0.01061
Std Dev 1.083

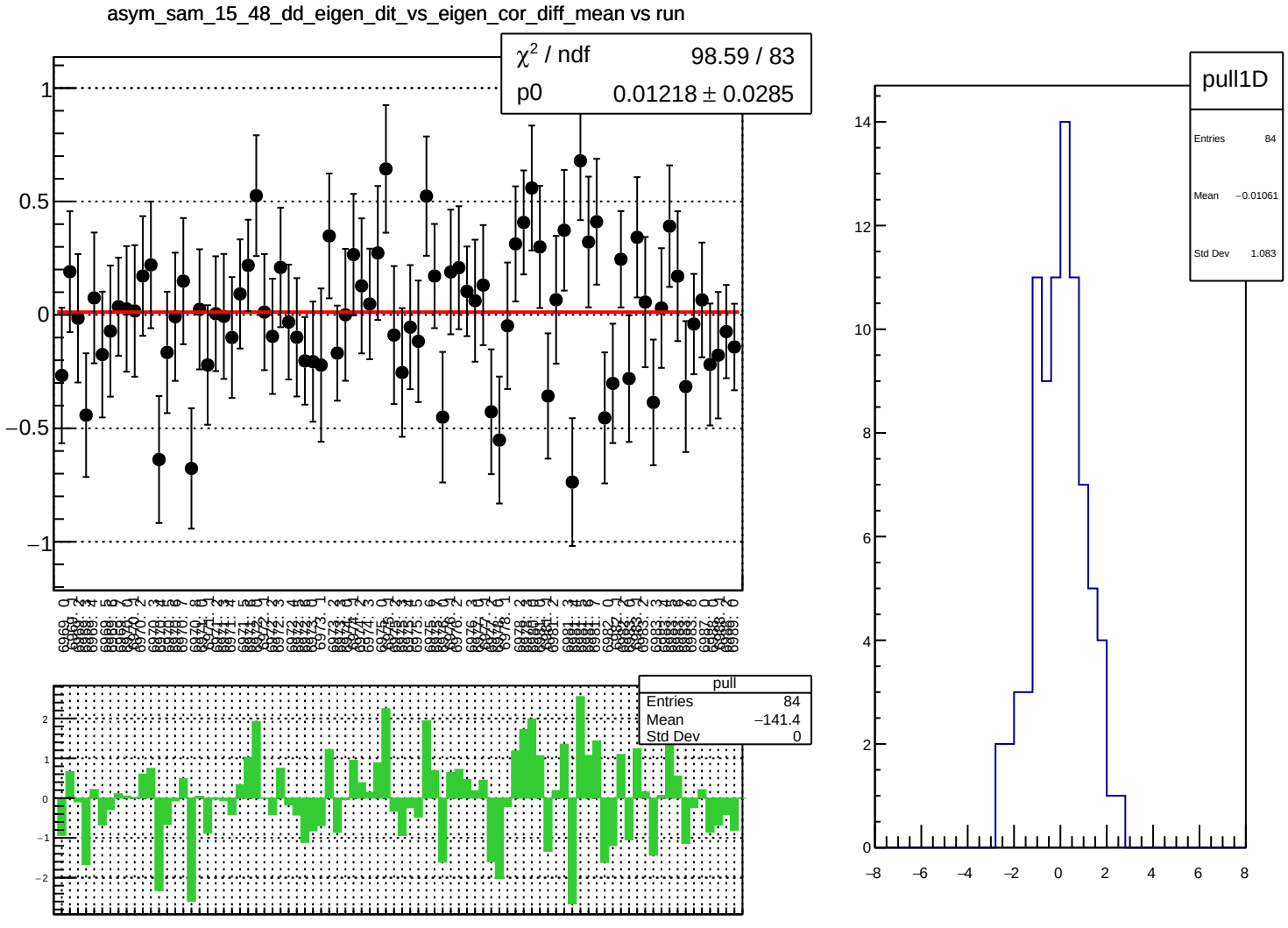

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3688 / 83
p0 26.04 ± 0.02015
32
30
28
26
24
22

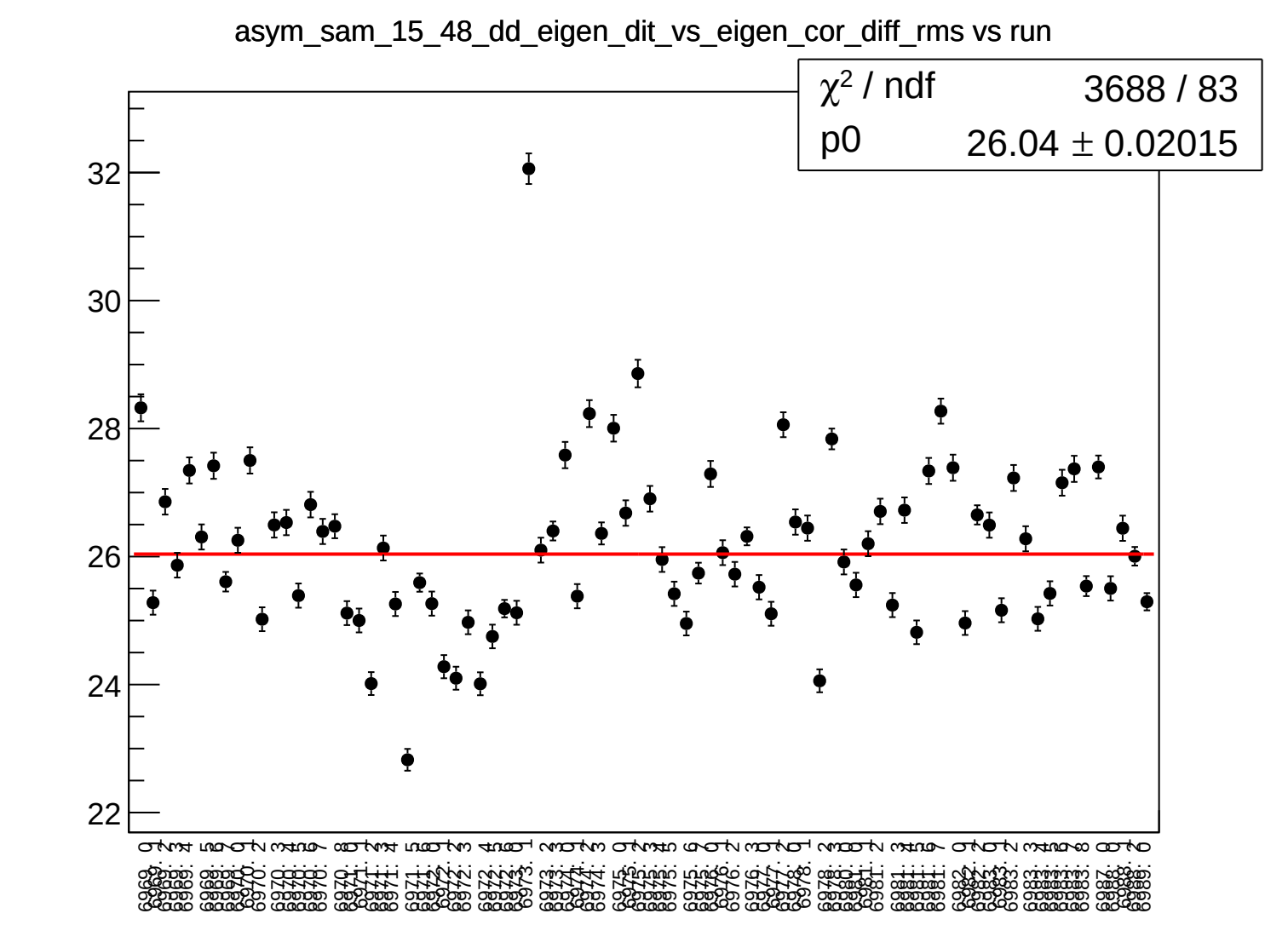

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.57 / 83
p0 −1.969e−06 ± 1.933e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean −9.868
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01401
Std Dev 0.9973
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

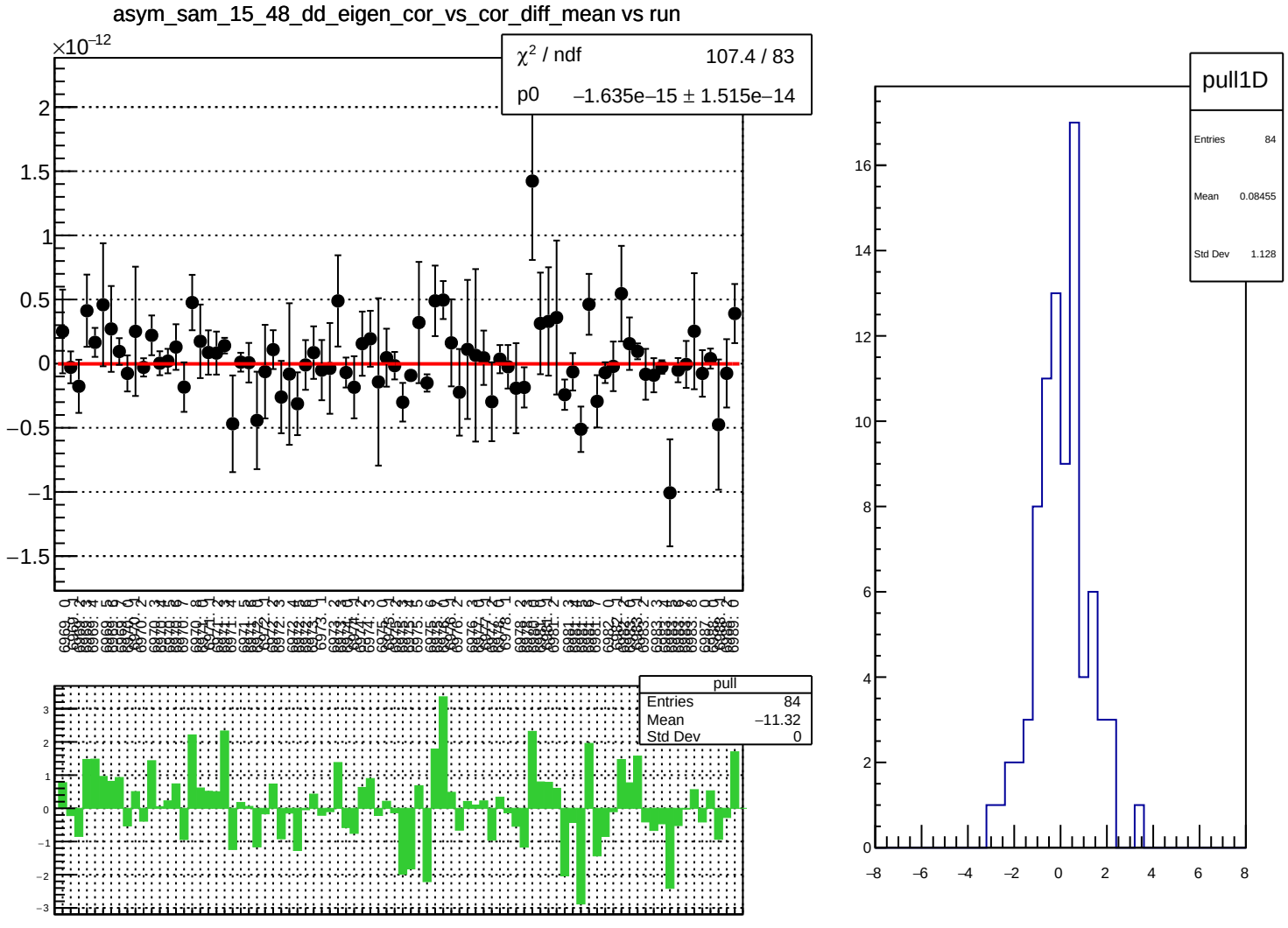

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.87e+04 / 83
p0 0.001753 ± 1.367e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

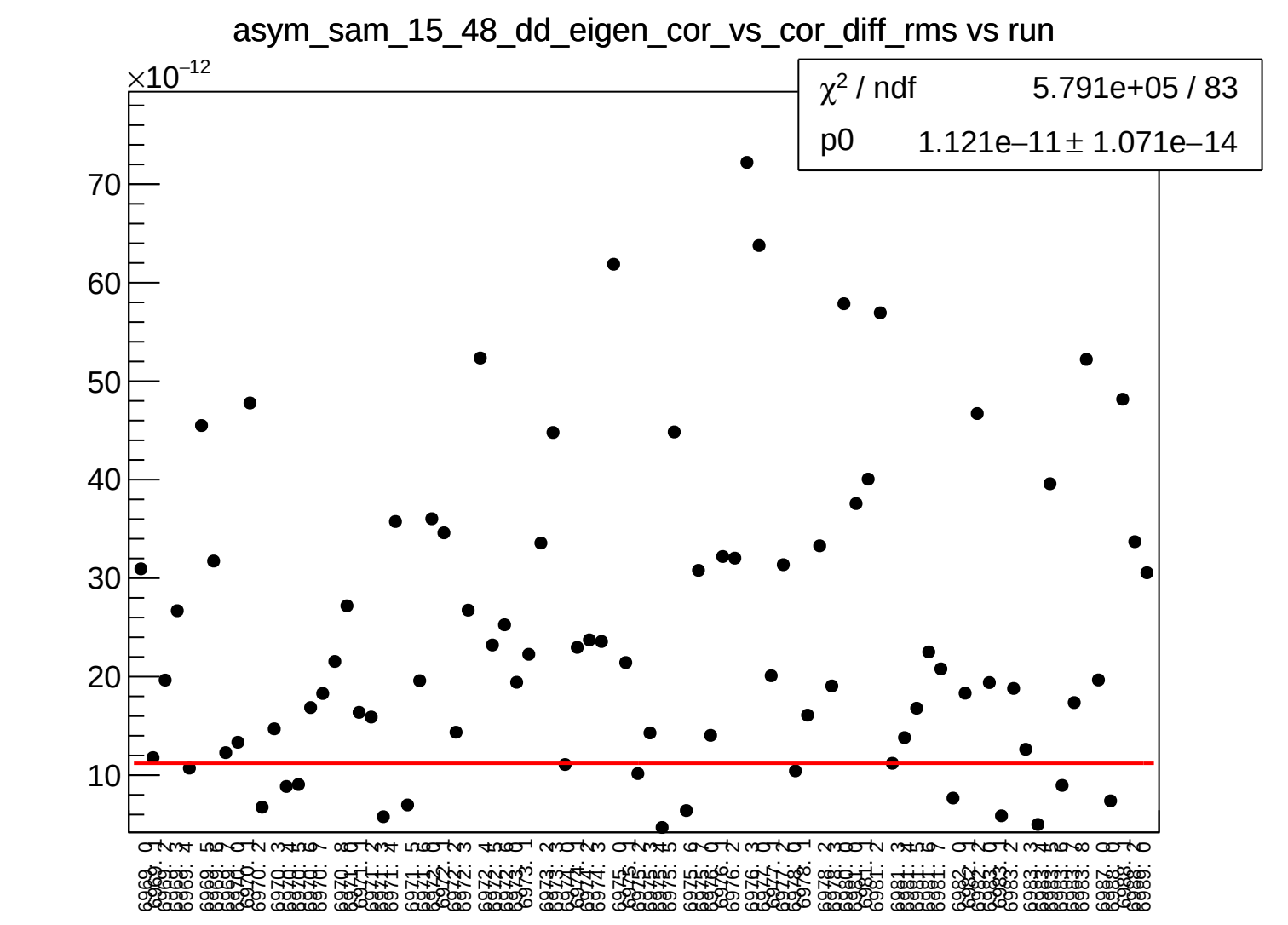

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.59 / 83
p0 0.01218 ± 0.0285
pull
Entries 84
Mean −141.4
Std Dev 0
pull1D
Entries 84
Mean −0.01061
Std Dev 1.083

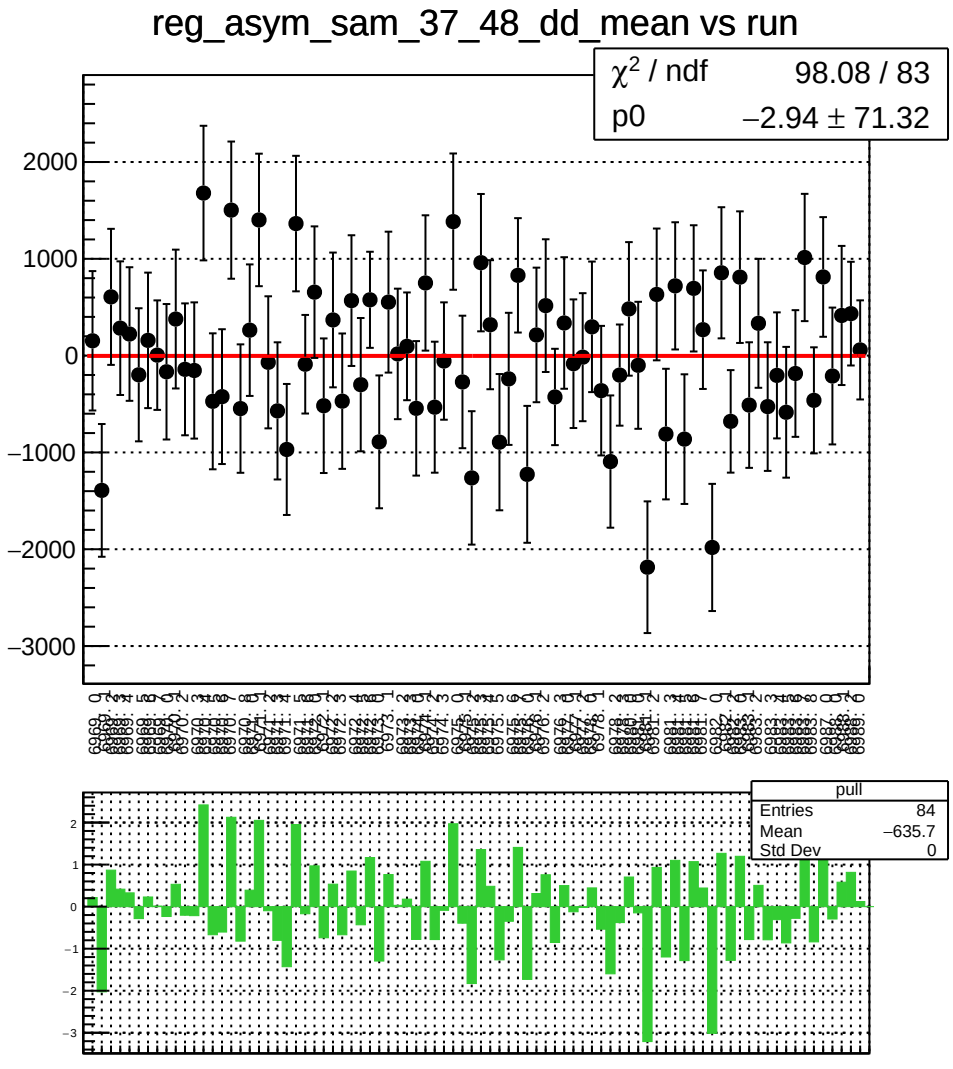

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3688 / 83
p0 26.04 ± 0.02015
32
30
28
26
24
22

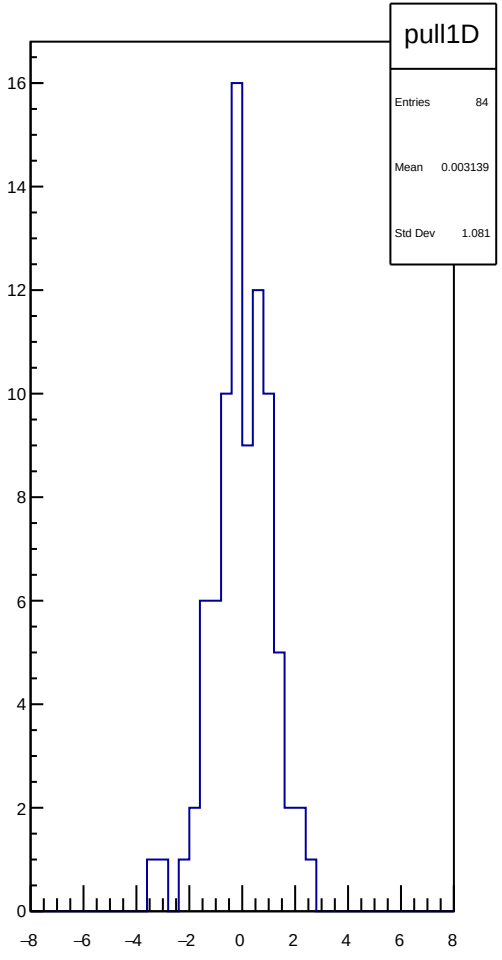

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.59 / 83
p0 0.01218 ± 0.0285
pull
Entries 84
Mean −141.4
Std Dev 0
pull1D
Entries 84
Mean −0.01061
Std Dev 1.083

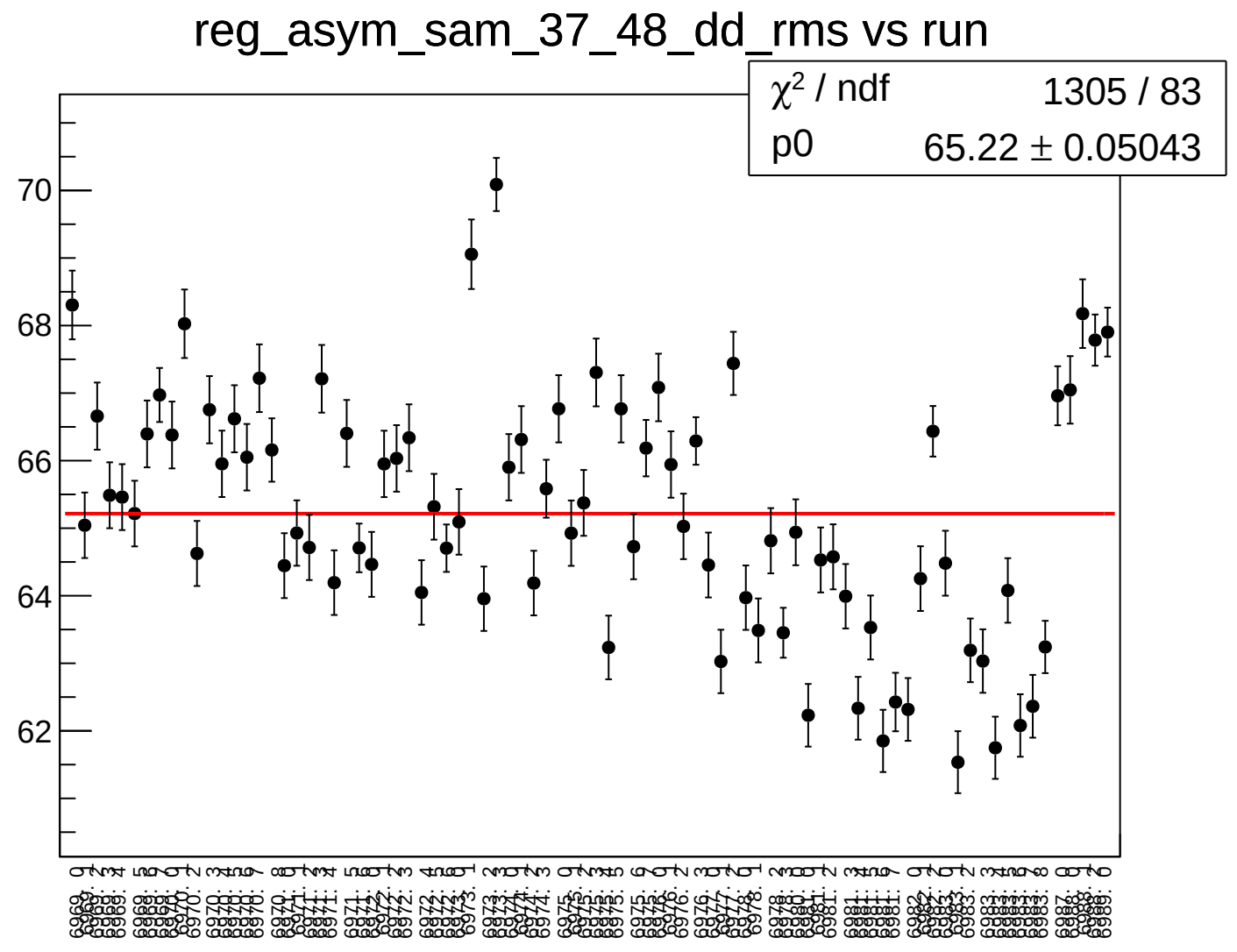

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3688 / 83
p0 26.04 ± 0.02015
32
30
28
26
24
22

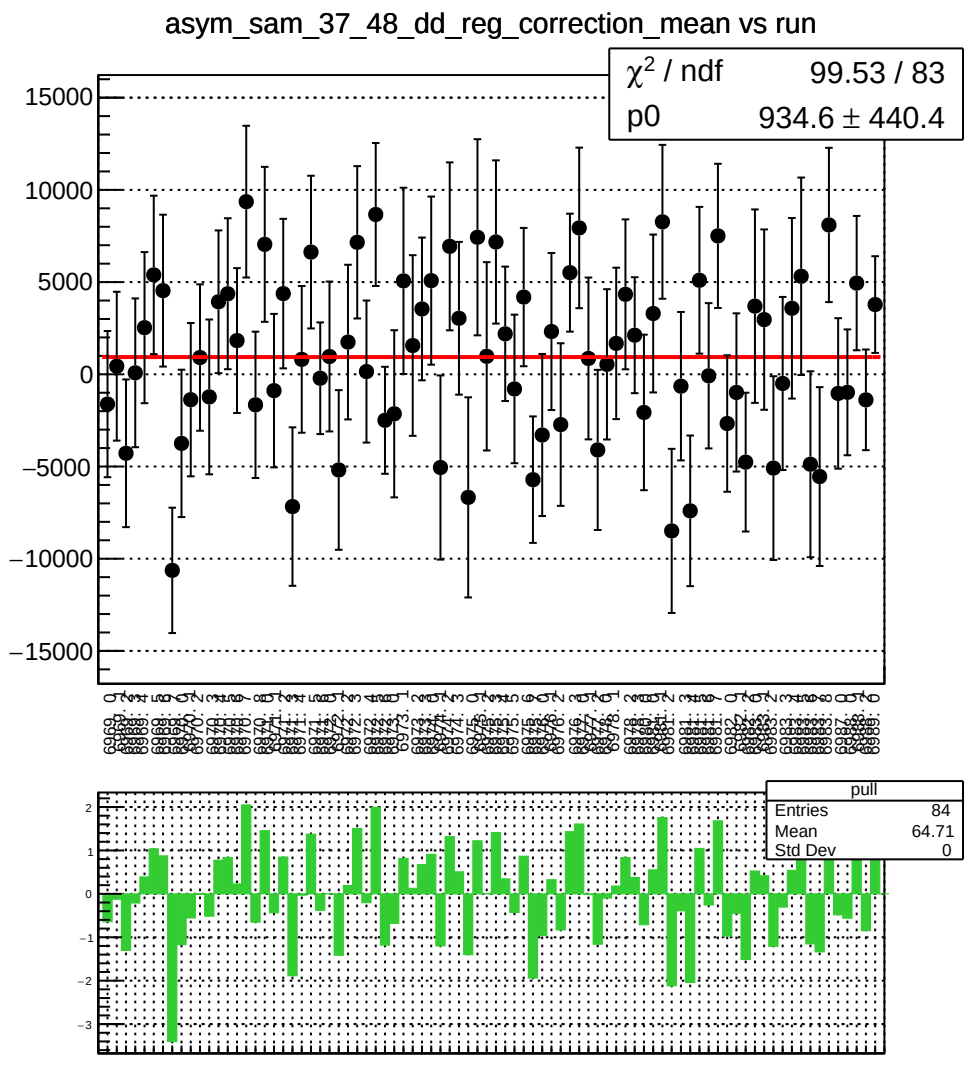

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.4 / 83
p0 −1.635e−15 ± 1.515e−14
pull
Entries 84
Mean −11.32
Std Dev 0
pull1D
Entries 84
Mean 0.08455
Std Dev 1.128

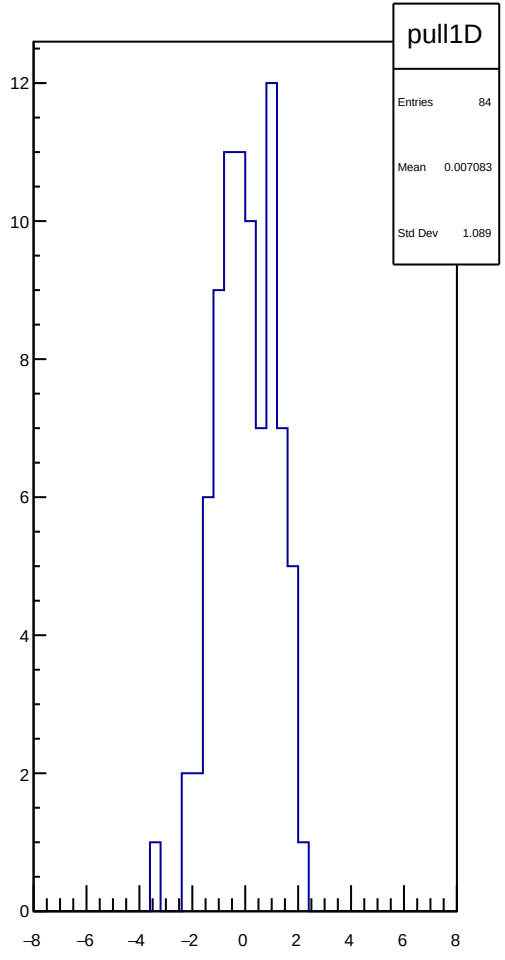

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.791e+05 / 83
p0 1.121e−11 ± 1.071e−14
70
60
50
40
30
20
10

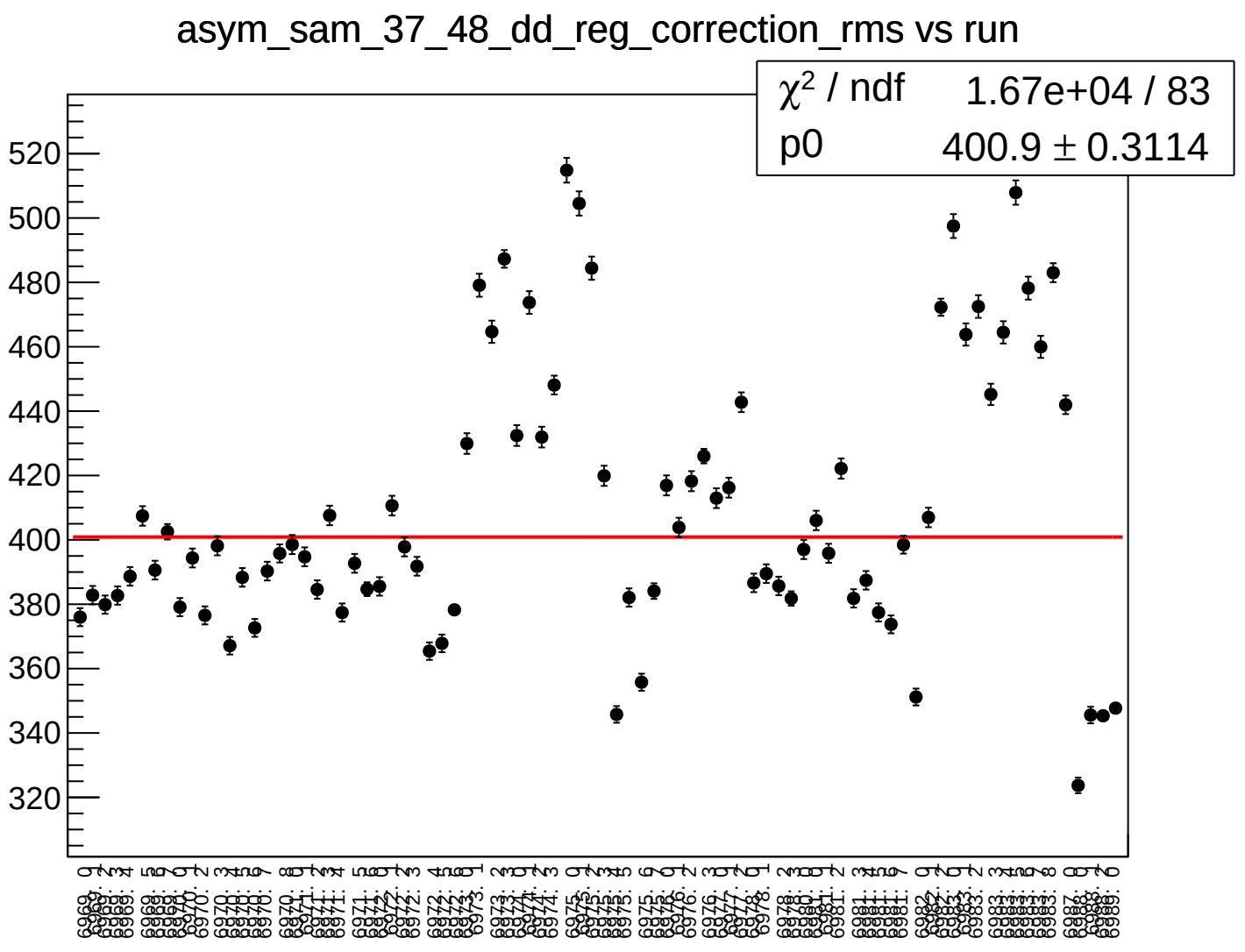

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 98.08 / 83
p0 −2.94 ± 71.32
pull
Entries 84
Mean −635.7
Std Dev 0

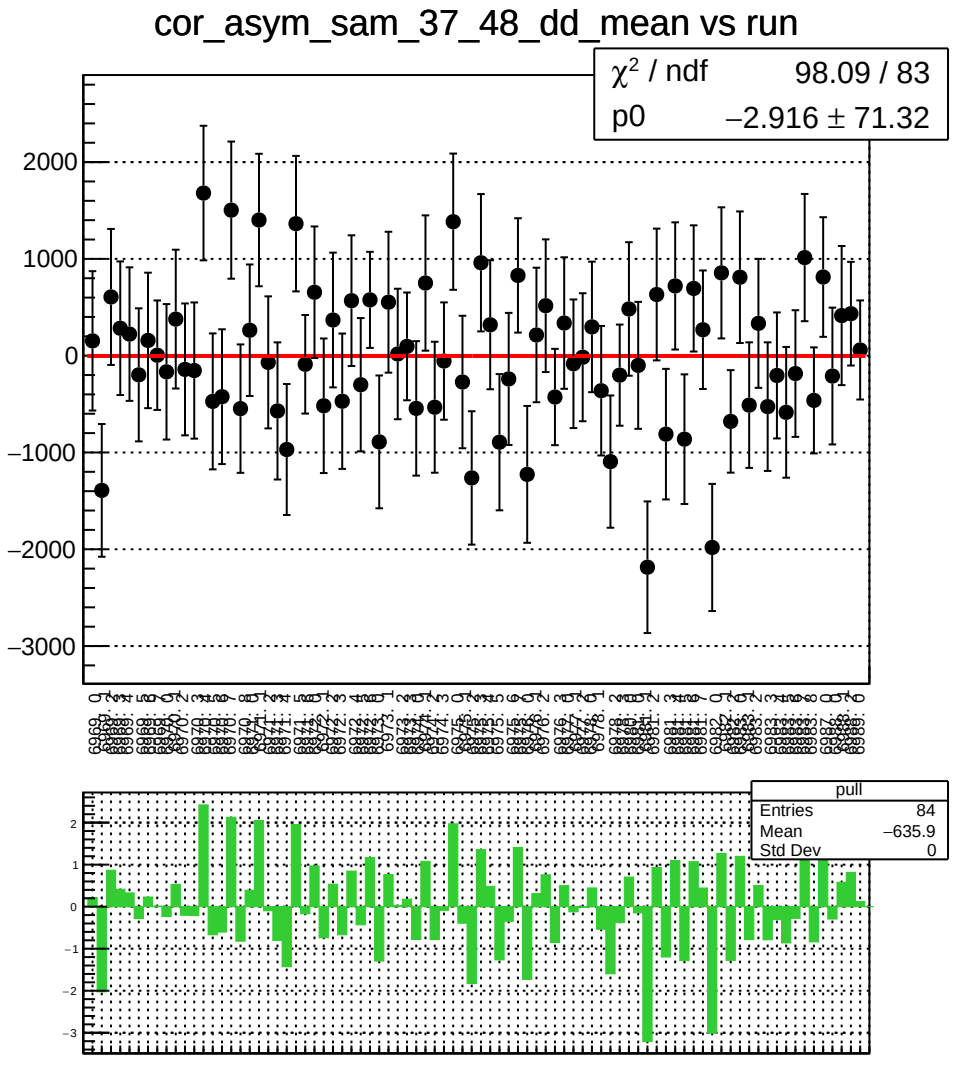

pull1D
Entries 84
Mean 0.003139
Std Dev 1.081

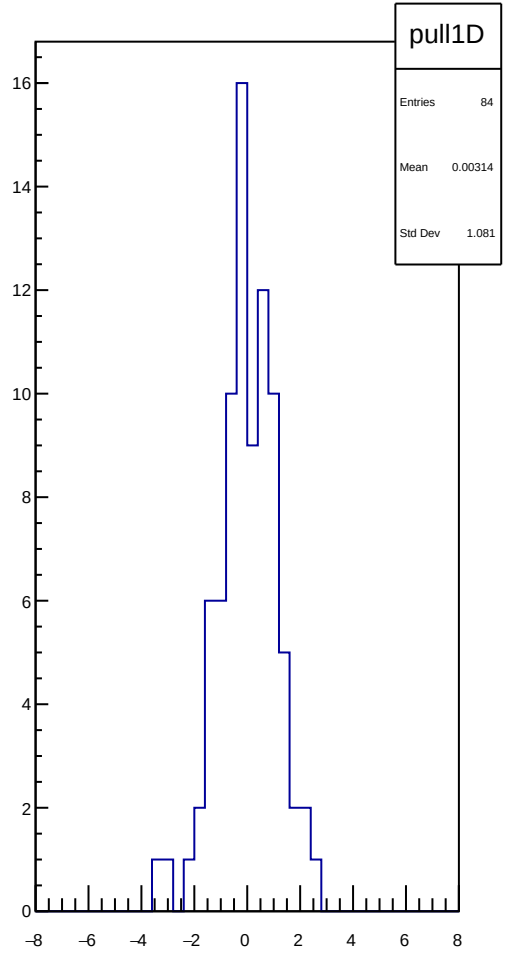

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1305 / 83
p0 65.22 ± 0.05043
70
68
66
64
62

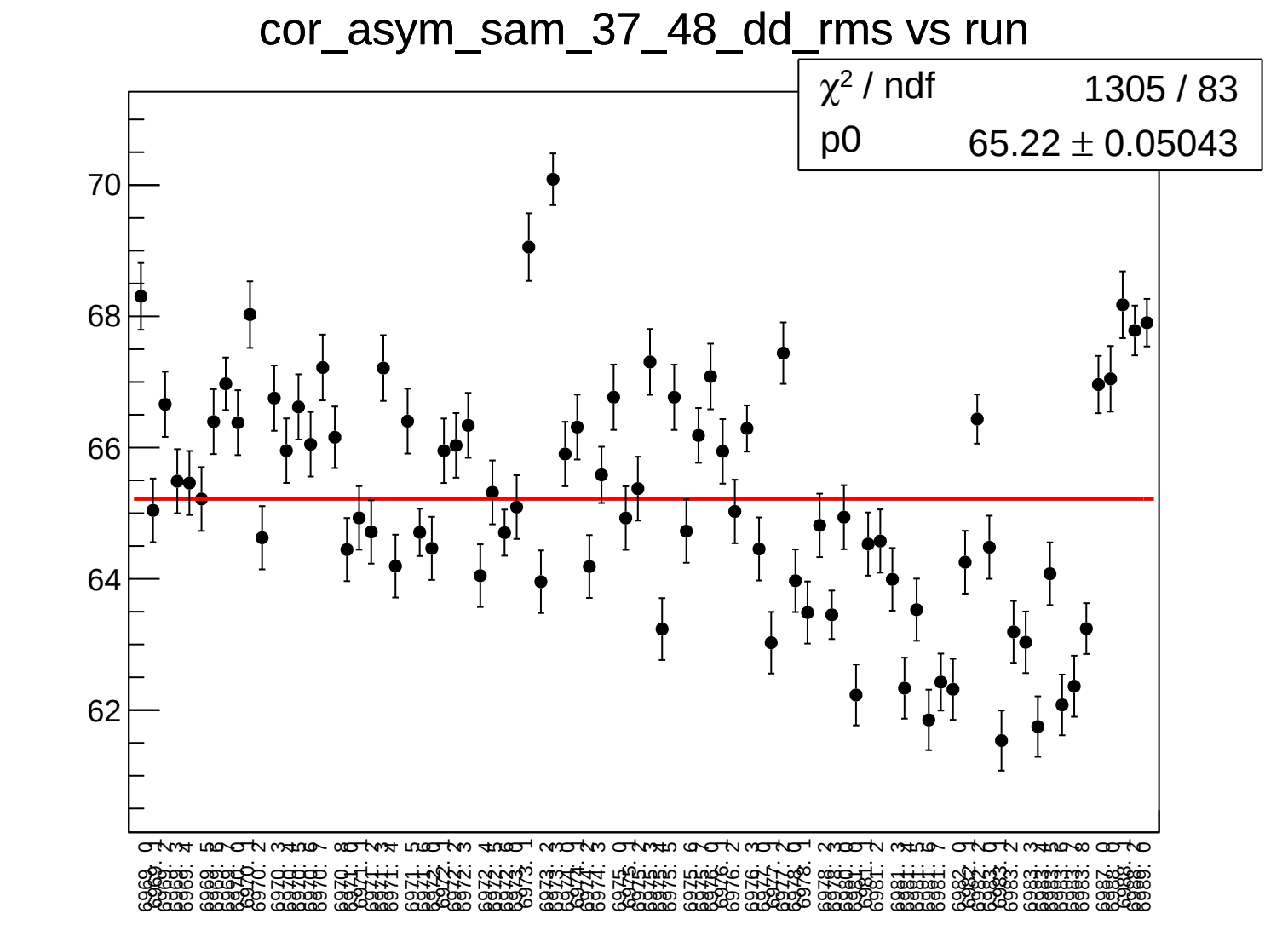

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 99.53 / 83
p0 934.6 ± 440.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 64.71
Std Dev 0
2
1
0
−1
−2
−3

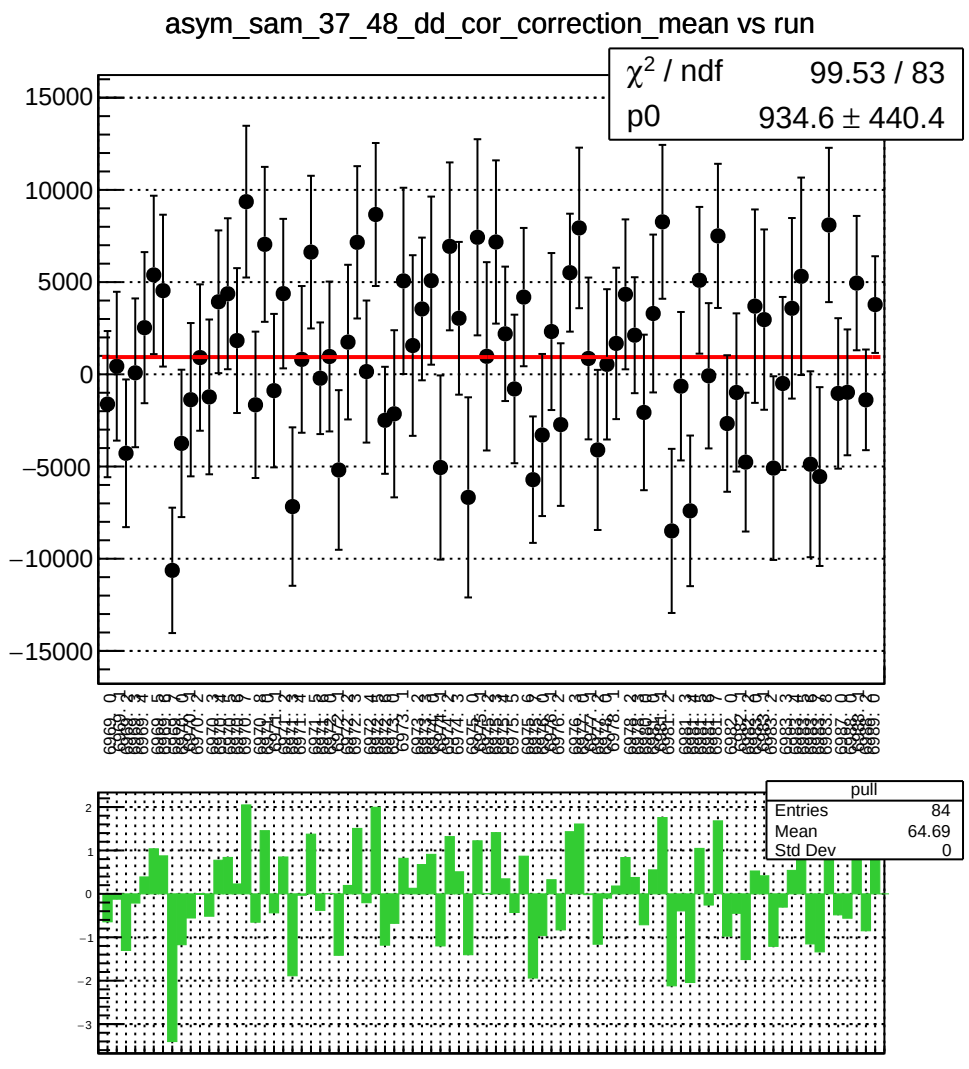

pull1D
Entries 84
Mean 0.007083
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

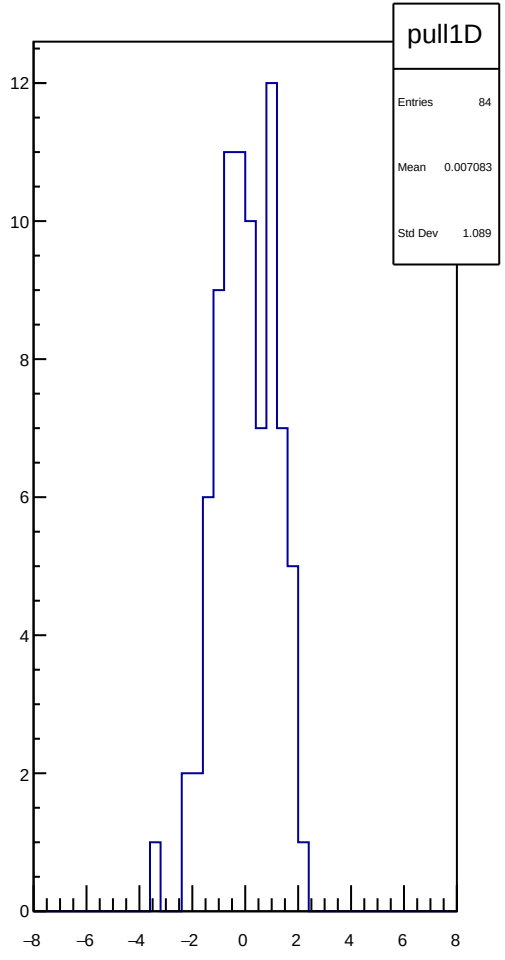

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1.67e+04 / 83
p0 400.9 ± 0.3114
520
500
480
460
440
420
400
380
360
340
320

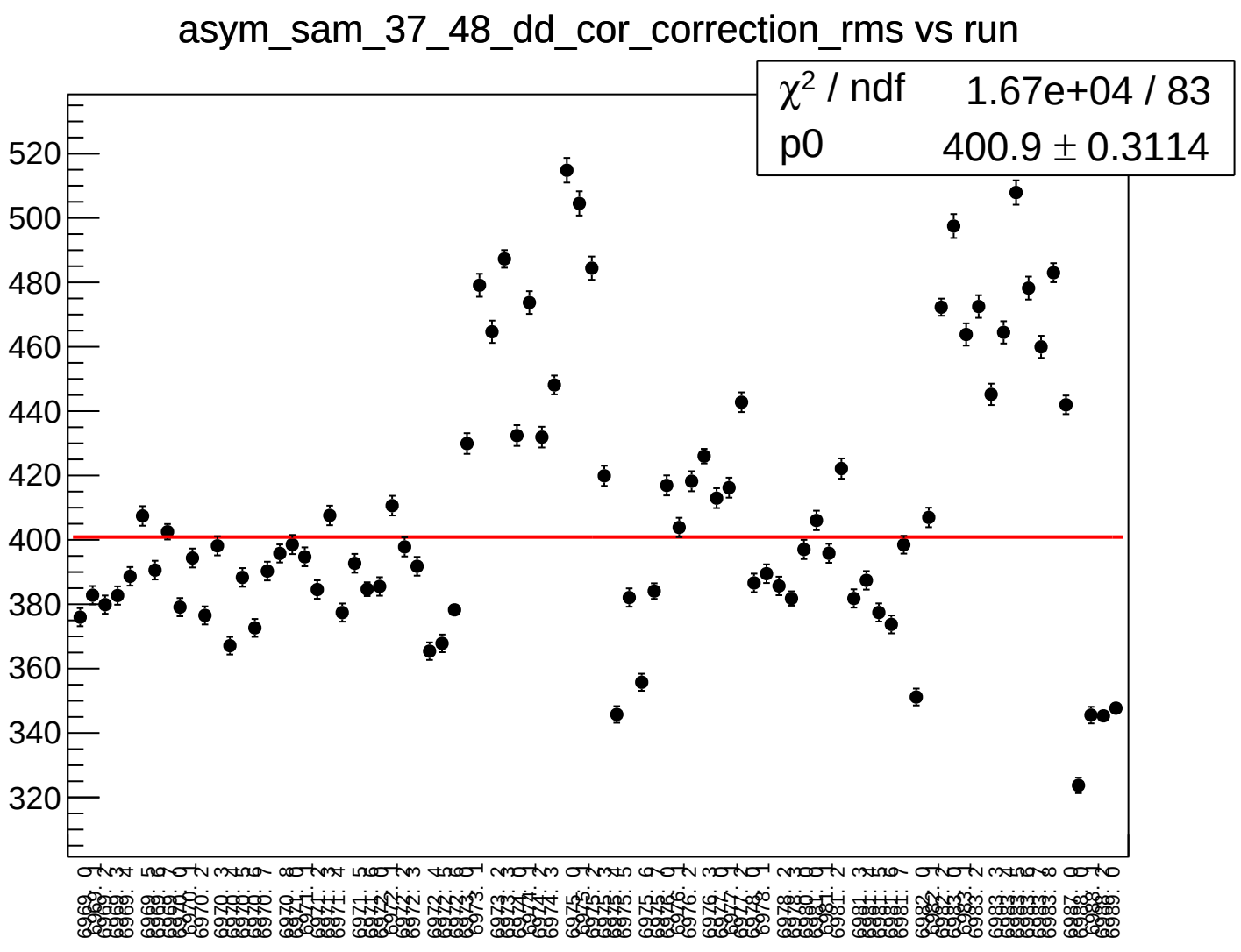

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 98.09 / 83
p0 −2.916 ± 71.32
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −635.9
Std Dev 0
2
1
0
−1
−2
−3

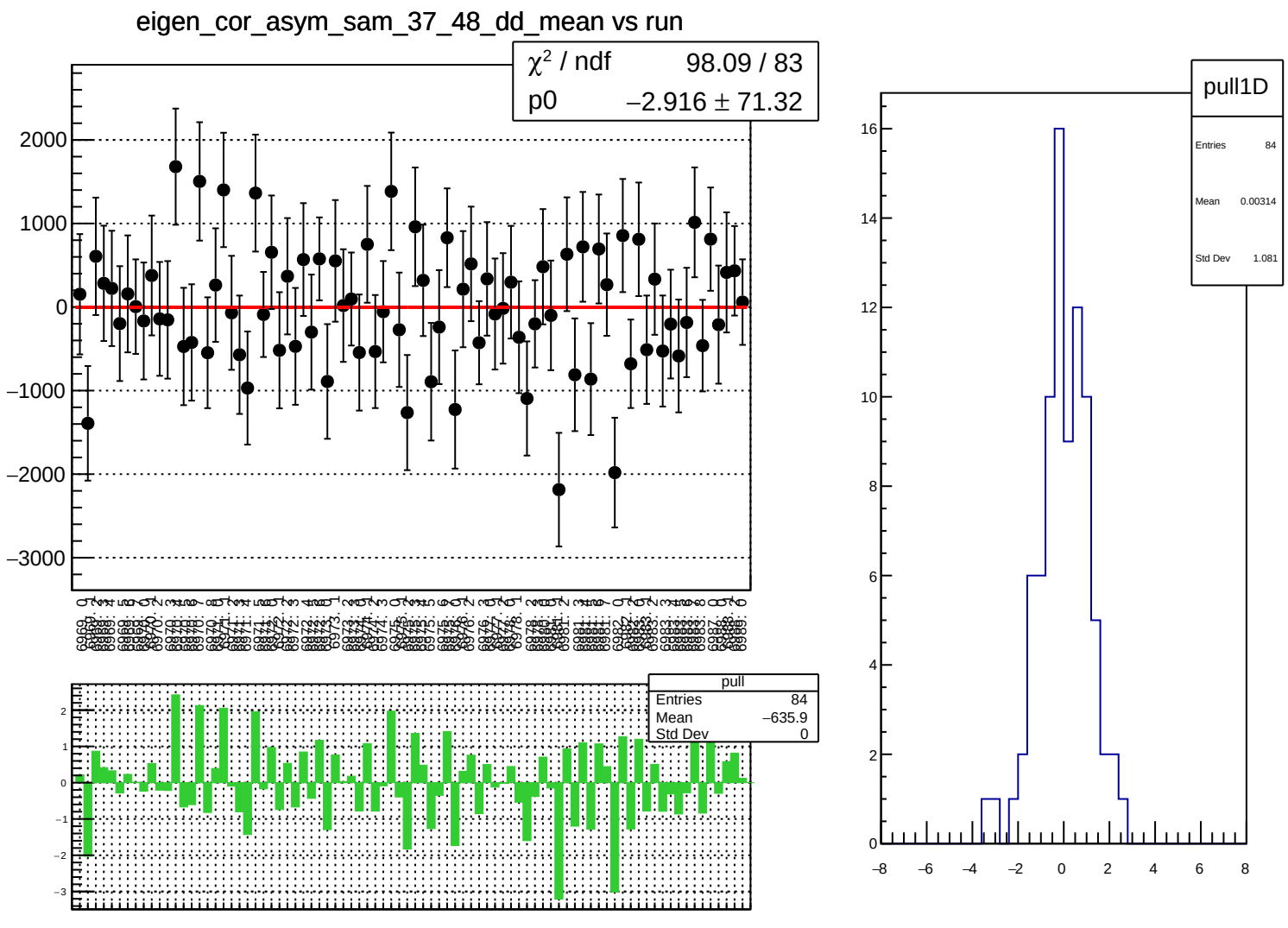

pull1D
Entries 84
Mean 0.00314
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

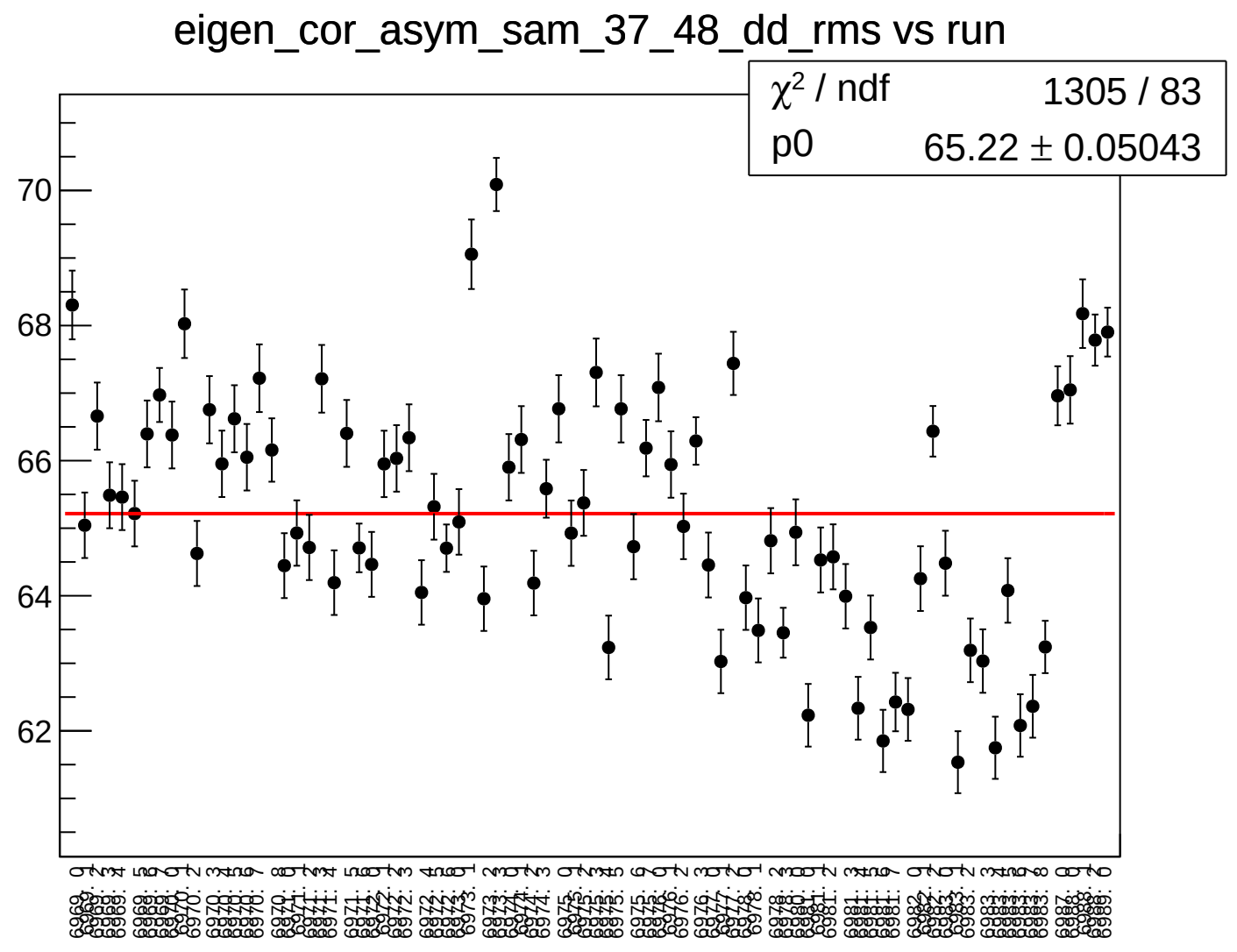

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1305 / 83
p0 65.22 ± 0.05043
70
68
66
64
62

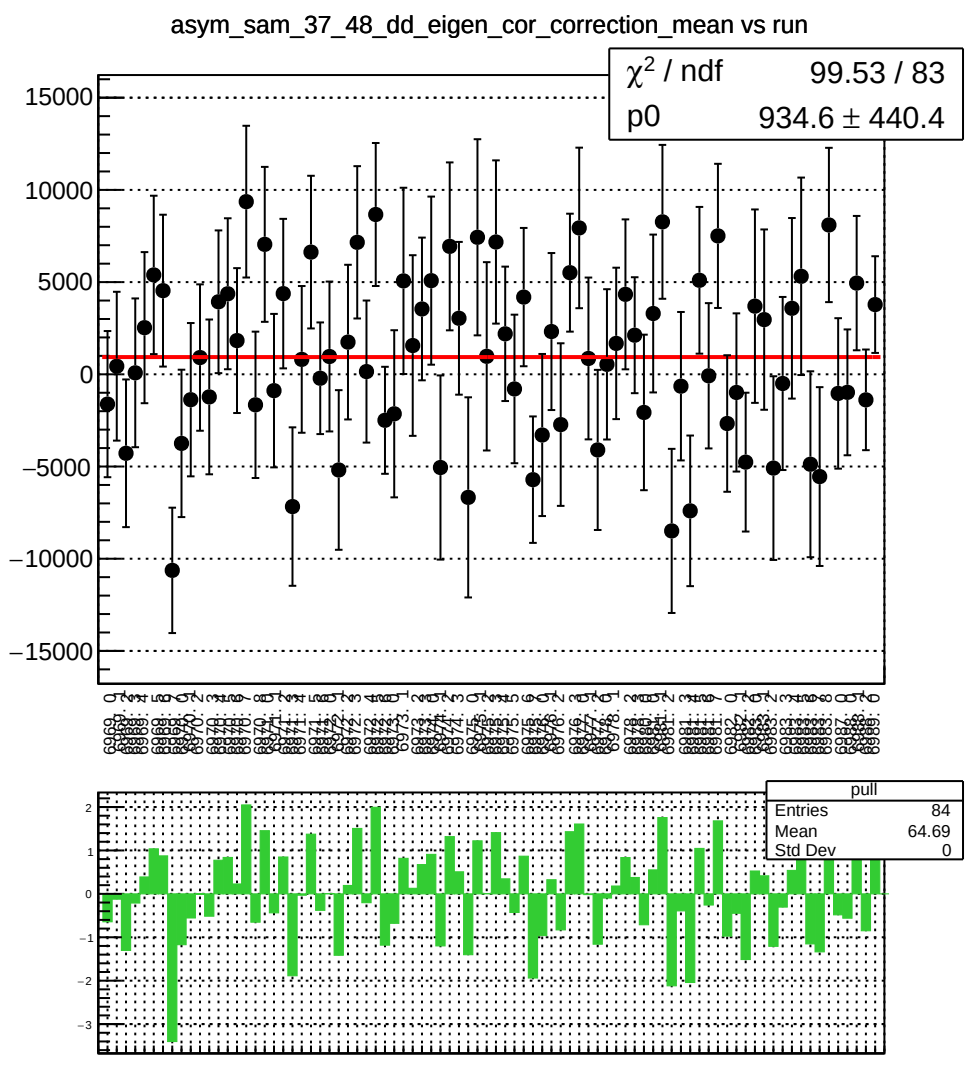

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 99.53 / 83
p0 934.6 ± 440.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 64.69
Std Dev 0
2
1
0
−1
−2
−3

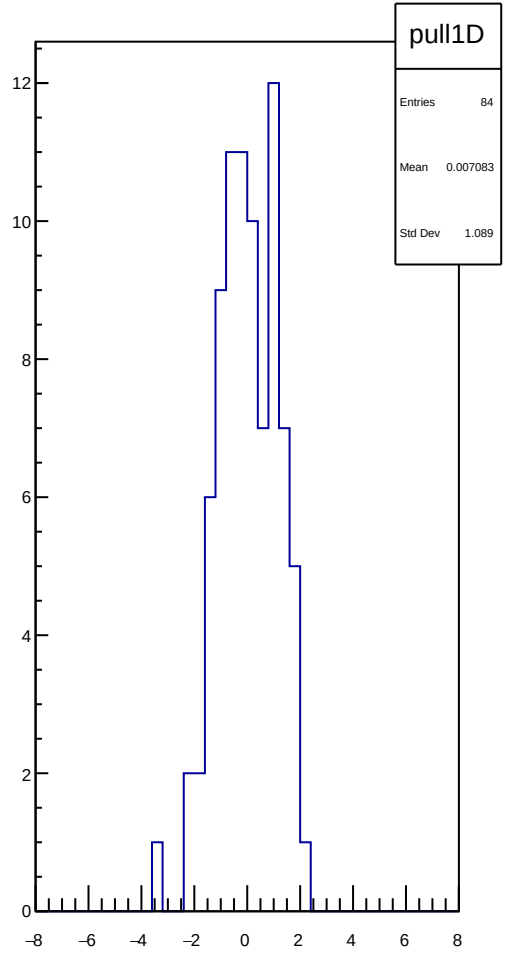

pull1D
Entries 84
Mean 0.007083
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

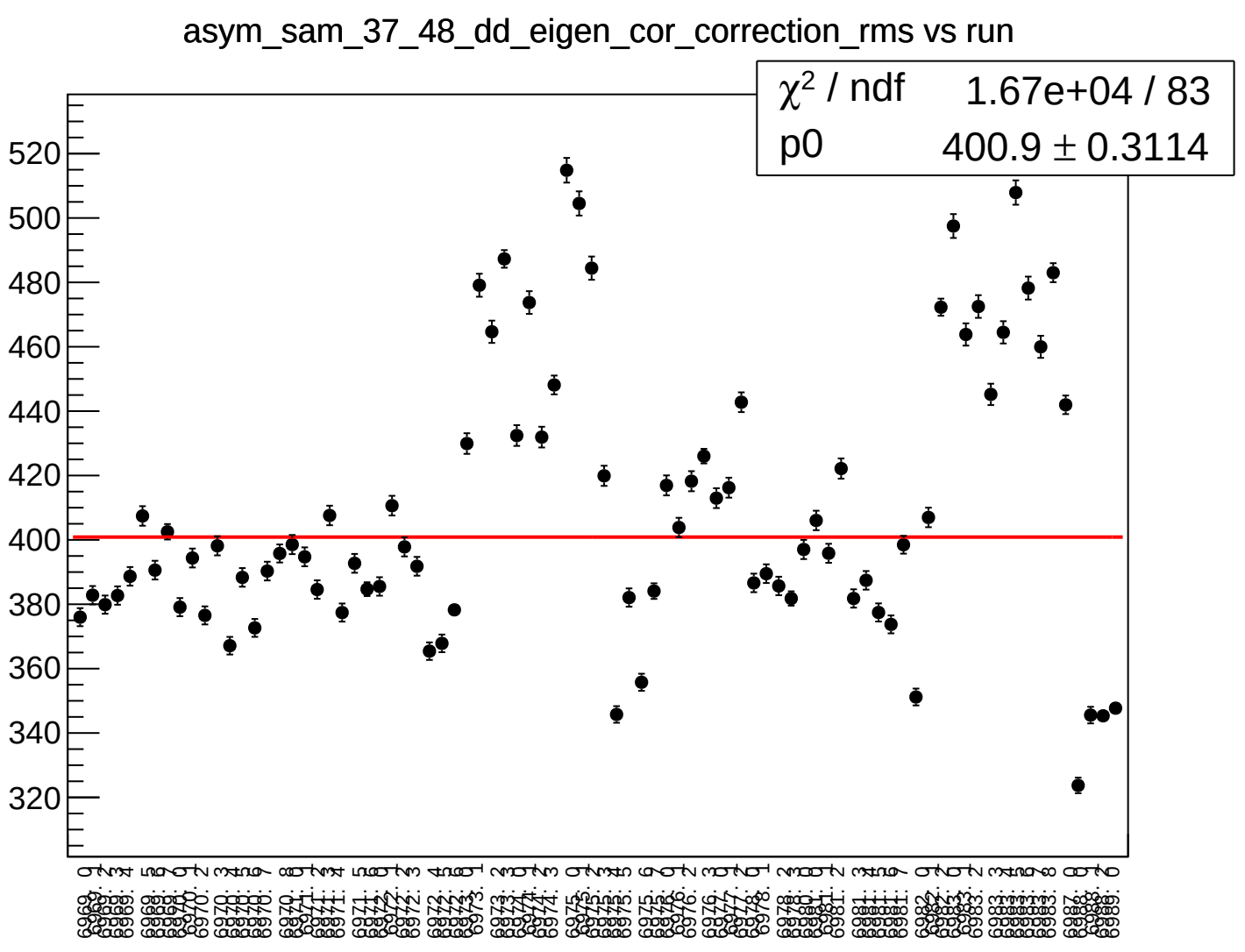

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1.67e+04 / 83
p0 400.9 ± 0.3114
520
500
480
460
440
420
400
380
360
340
320

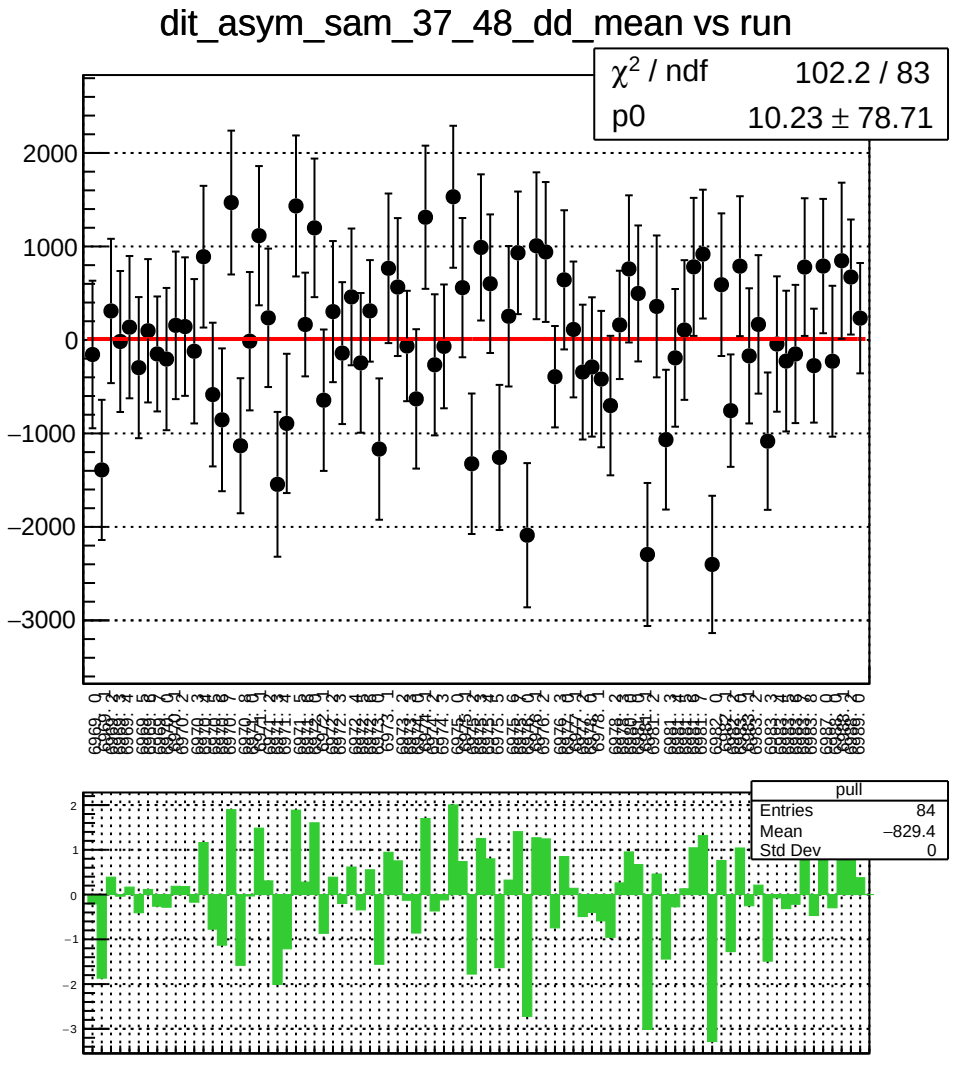

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 98.09 / 83
p0 −2.916 ± 71.32
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −635.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.00314
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

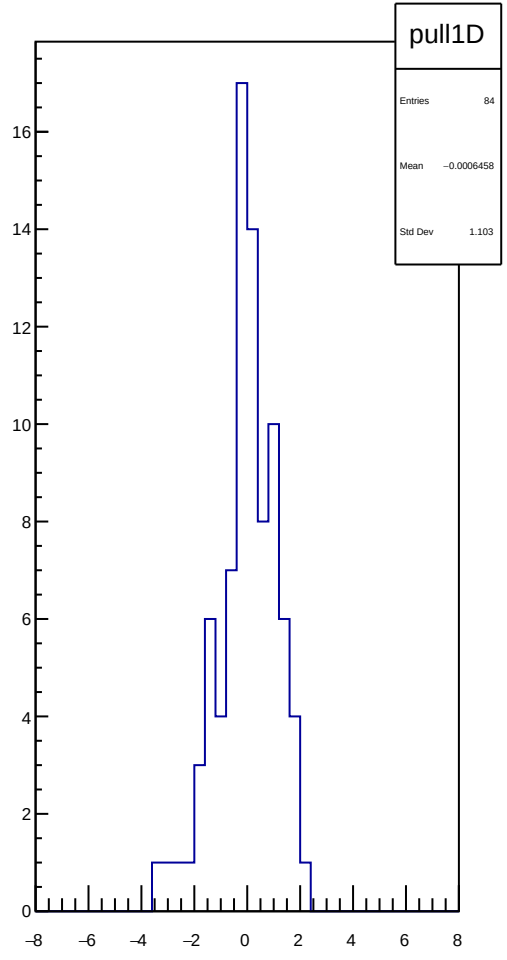

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1305 / 83
p0 65.22 ± 0.05043
70
68
66
64
62

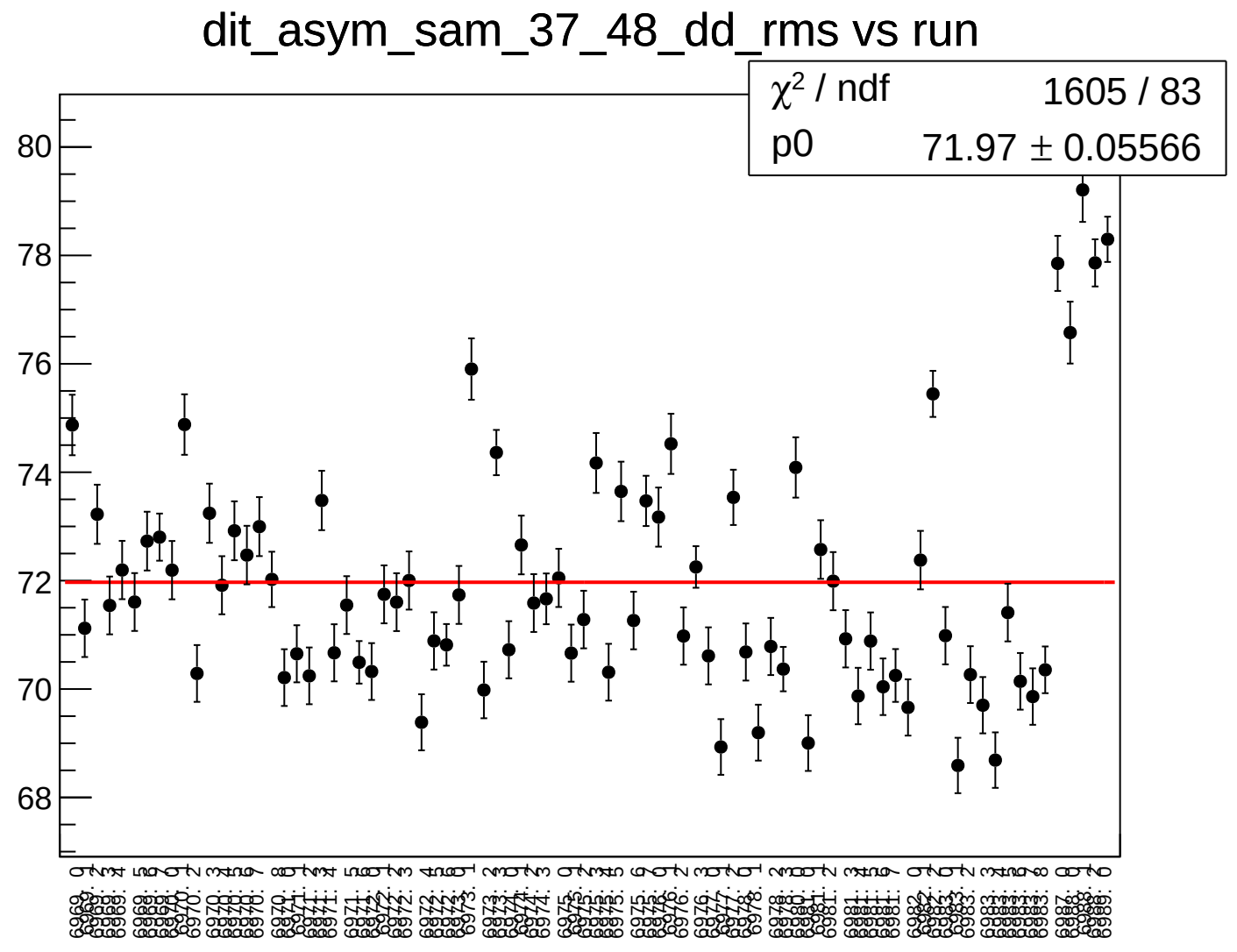

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.53 / 83
p0 934.6 ± 440.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 64.69
Std Dev 0
2
1
0
−1
−2
−3

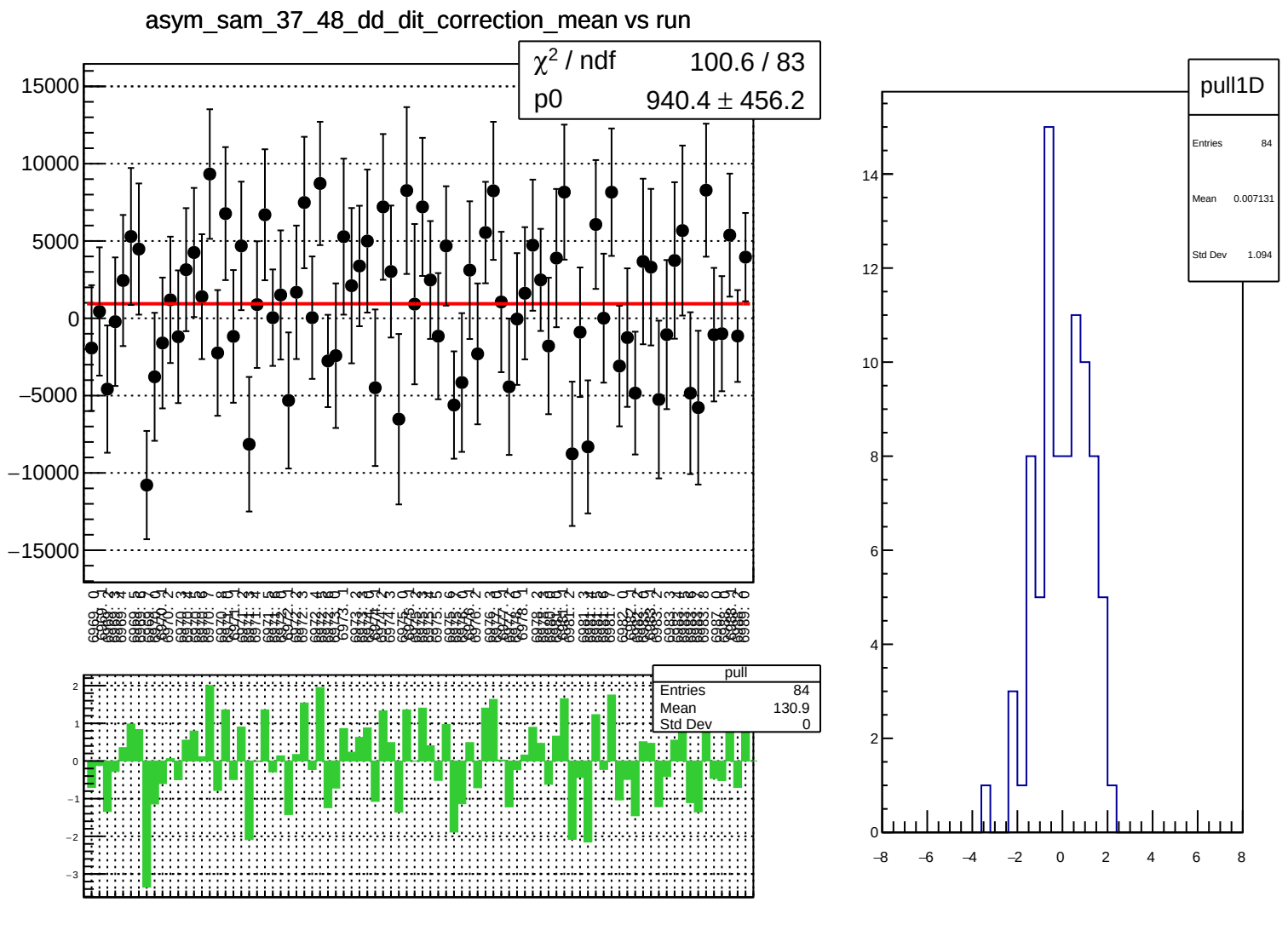

pull1D
Entries 84
Mean 0.007083
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

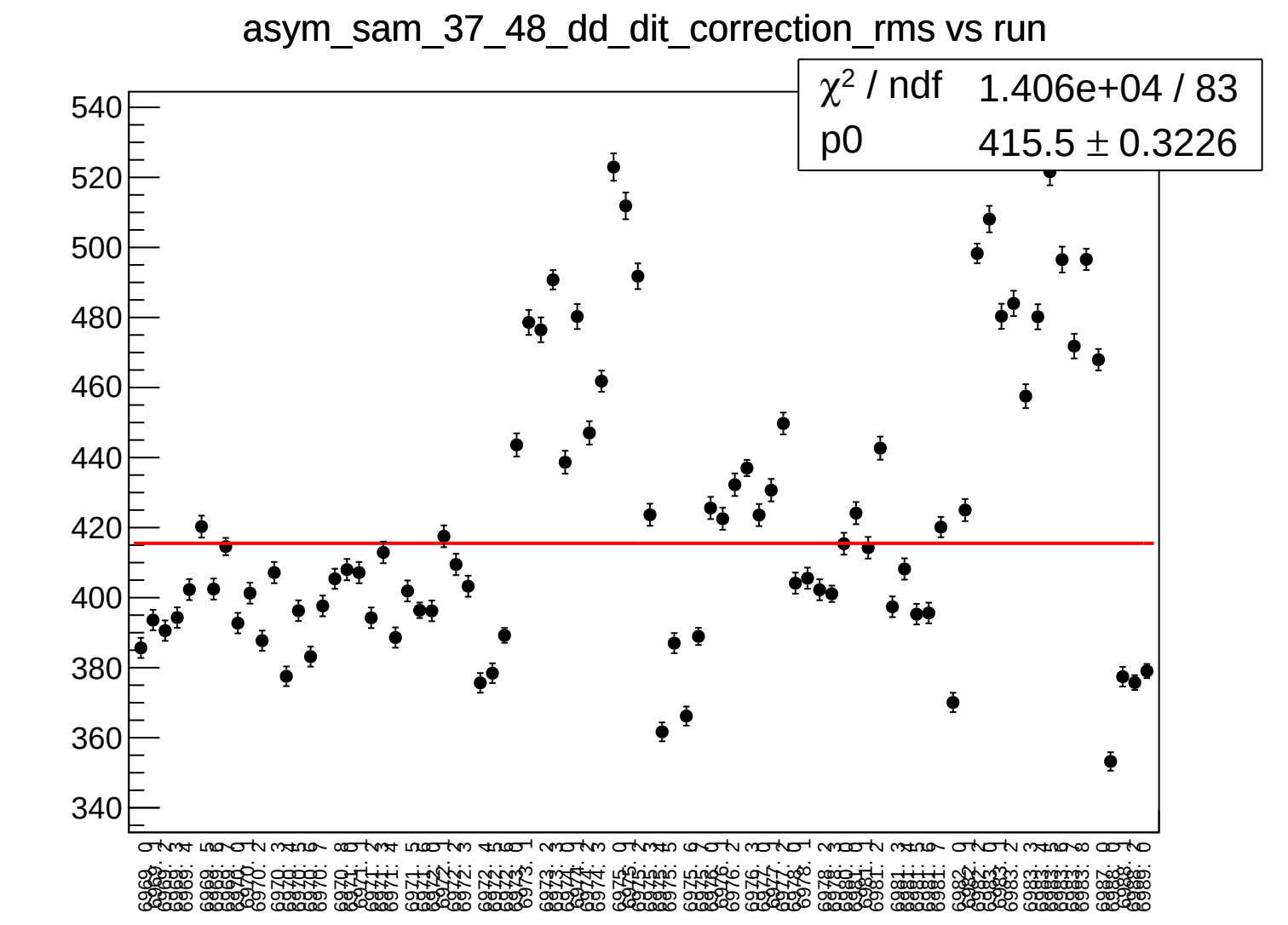

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.67e+04 / 83
p0 400.9 ± 0.3114
520
500
480
460
440
420
400
380
360
340
320

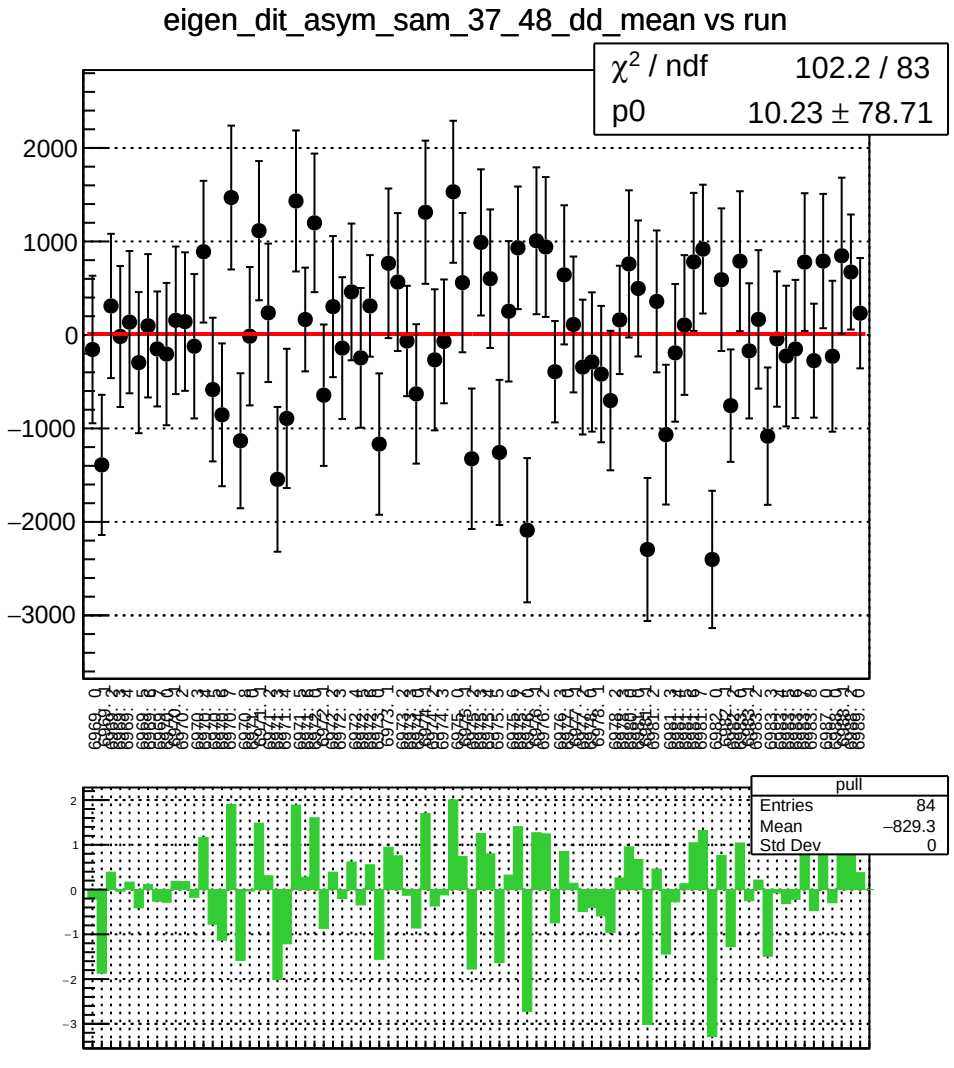

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 102.2 / 83
p0 10.23 ± 78.71
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −829.4
Std Dev 0
2
1
0
−1
−2
−3

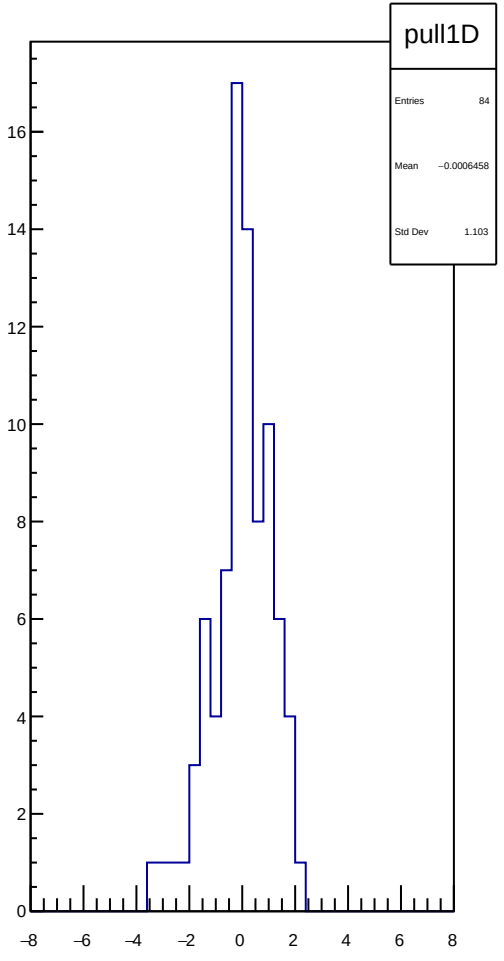

pull1D
Entries 84
Mean −0.0006458
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

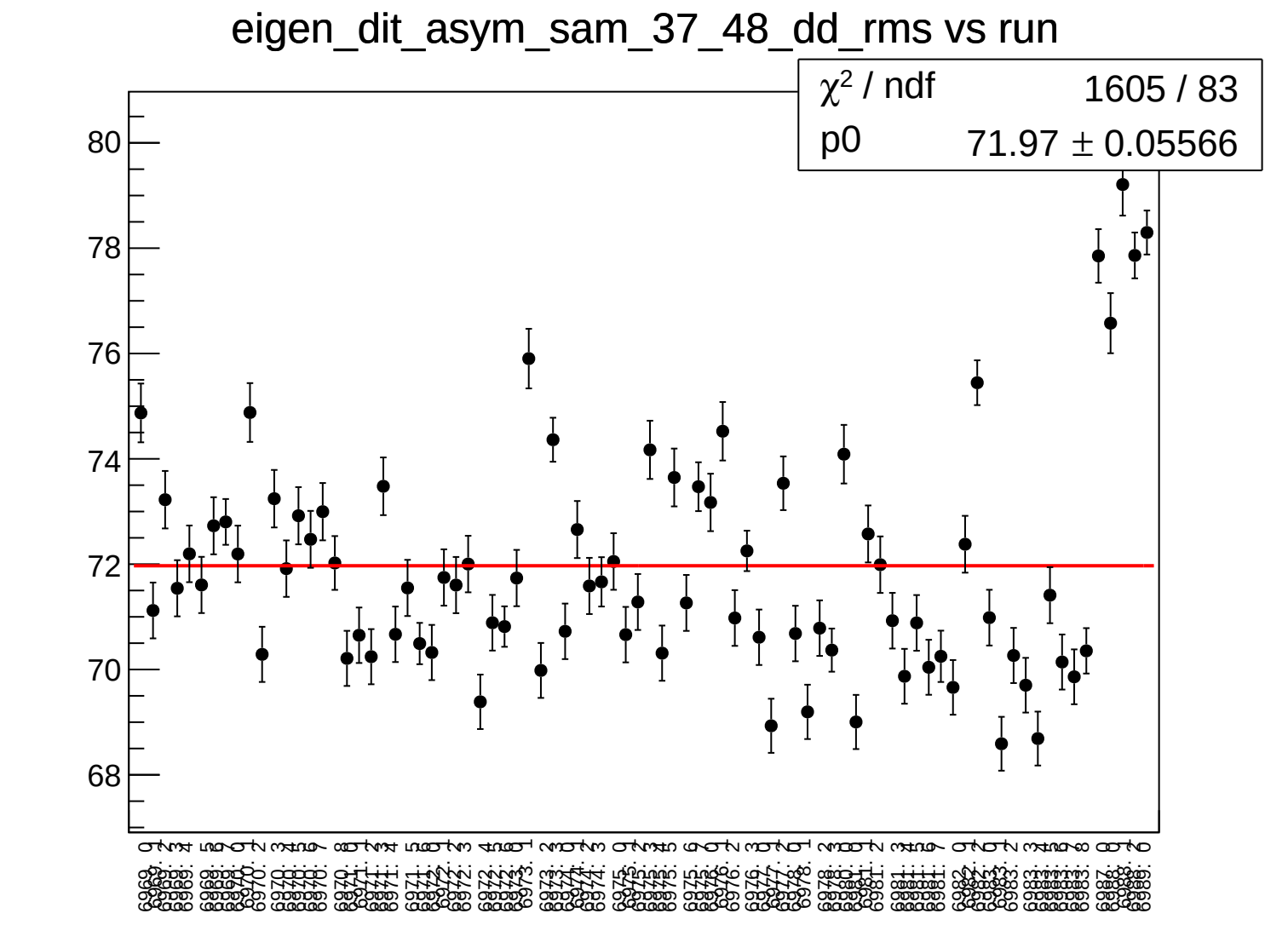

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1605 / 83
p0 71.97 ± 0.05566
80
78
76
74
72
70
68

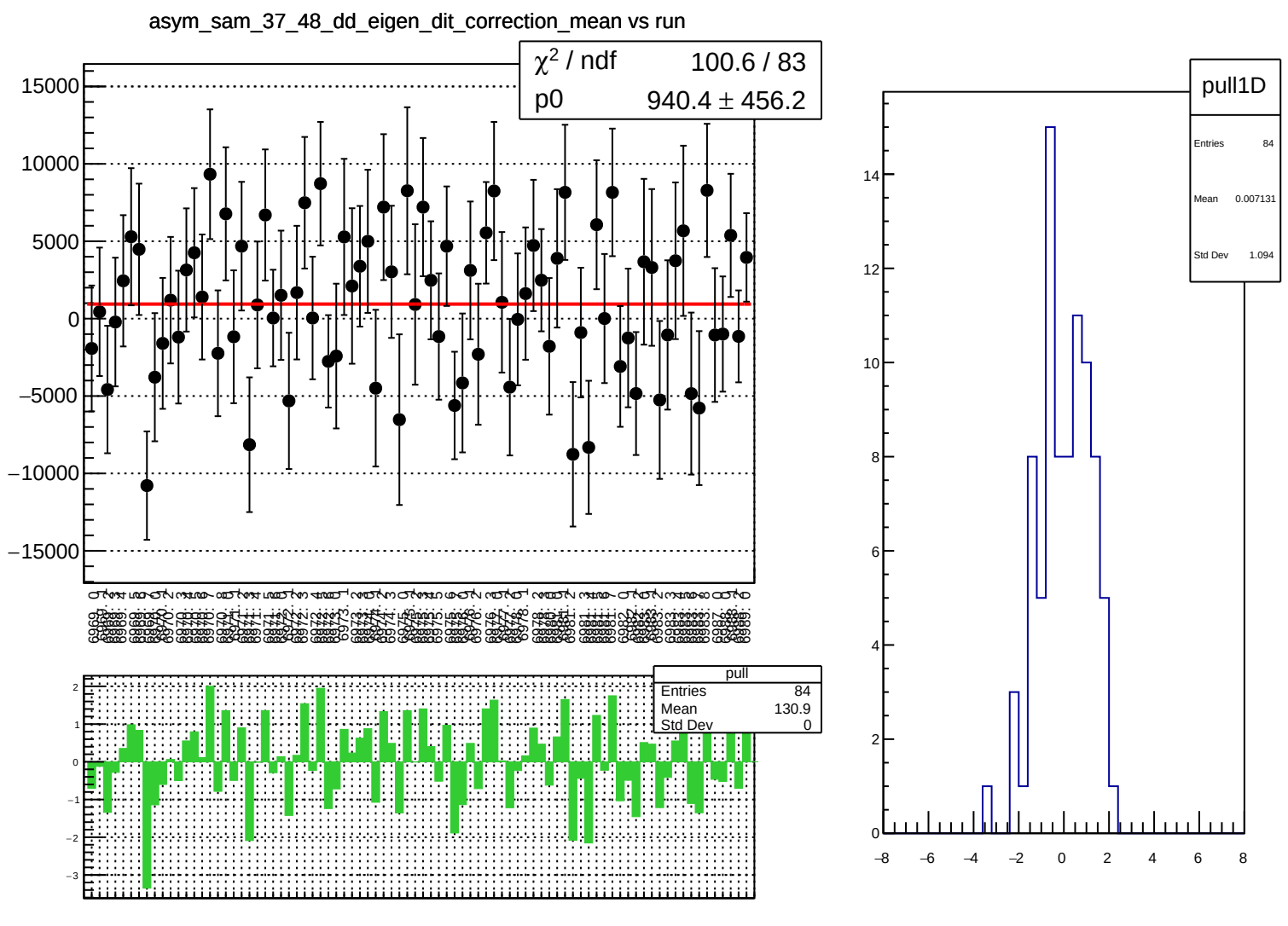

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 100.6 / 83
p0 940.4 ± 456.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 130.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.007131
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

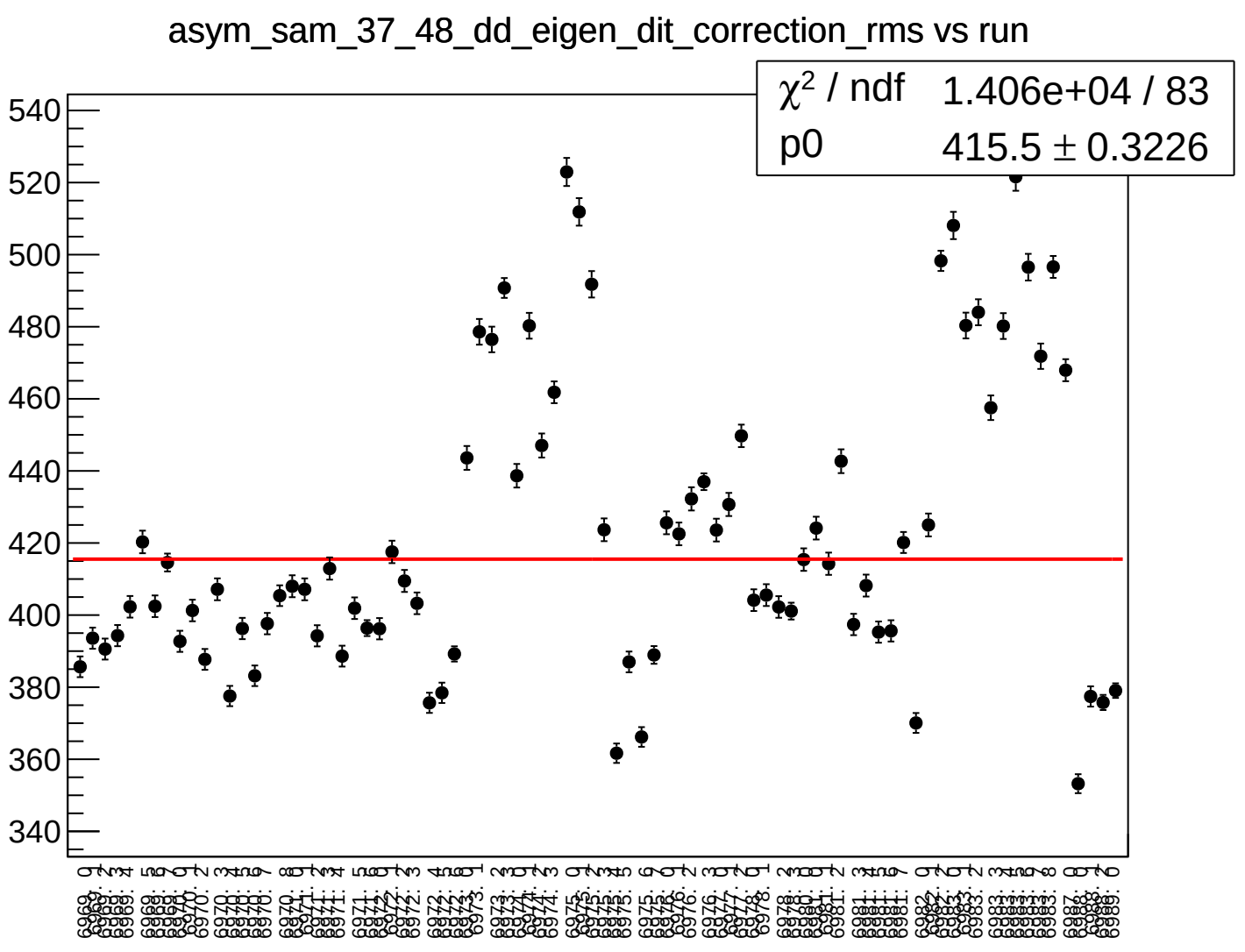

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1.406e+04 / 83
p0 415.5 ± 0.3226
540
520
500
480
460
440
420
400
380
360
340

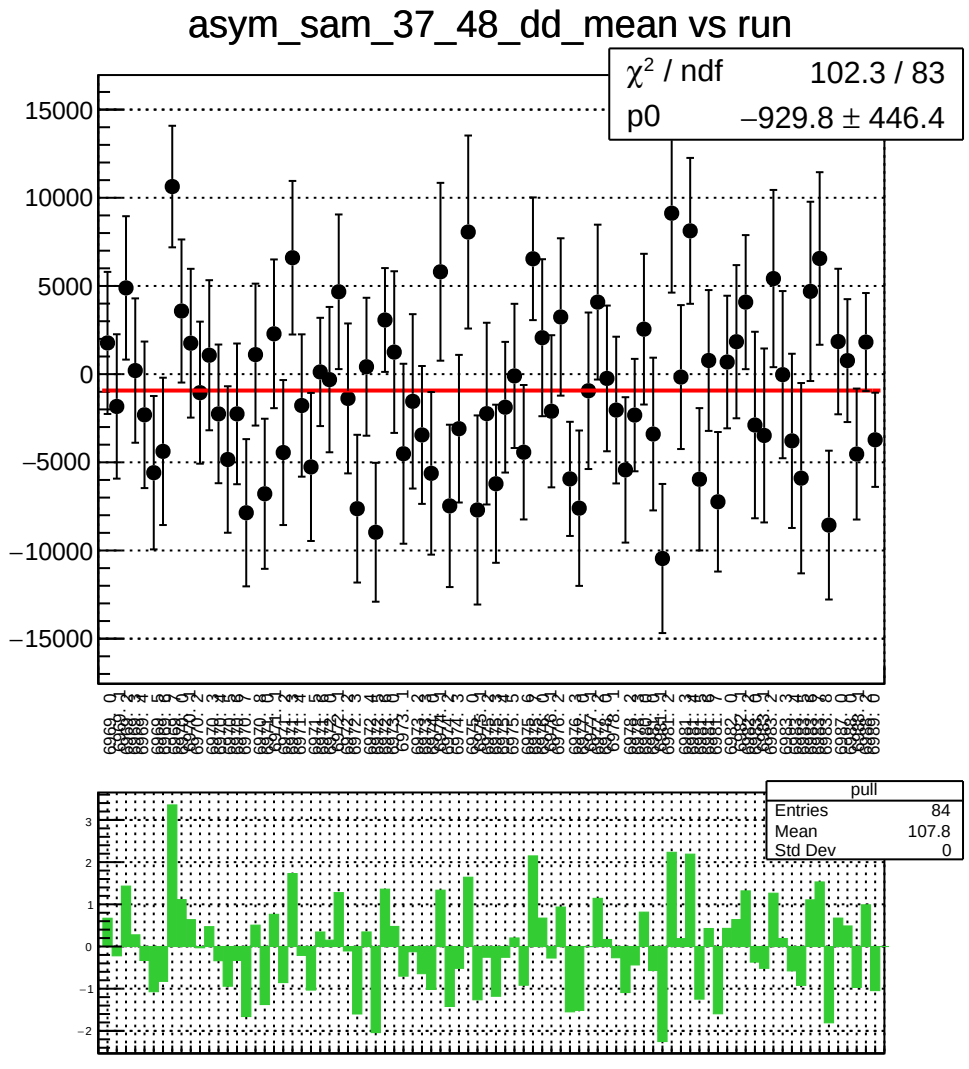

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 102.2 / 83
p0 10.23 ± 78.71
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −829.3
Std Dev 0
2
1
0
−1
−2
−3

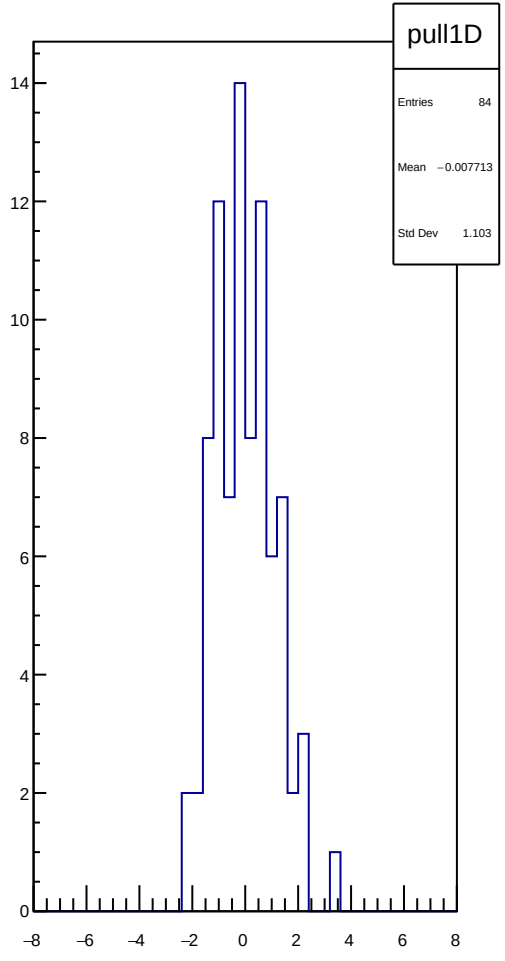

pull1D
Entries 84
Mean −0.0006458
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

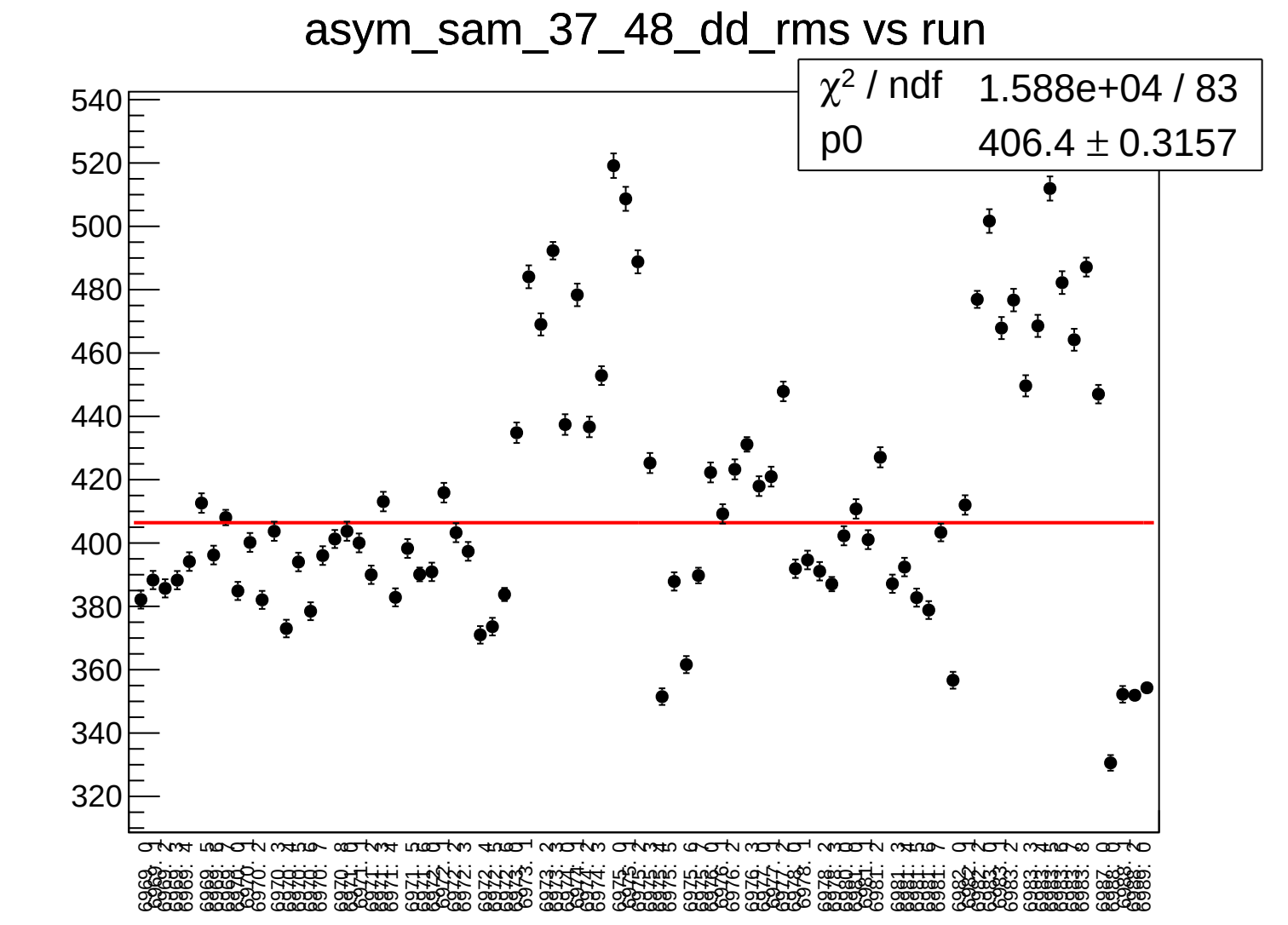

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1605 / 83
p0 71.97 ± 0.05566
80
78
76
74
72
70
68

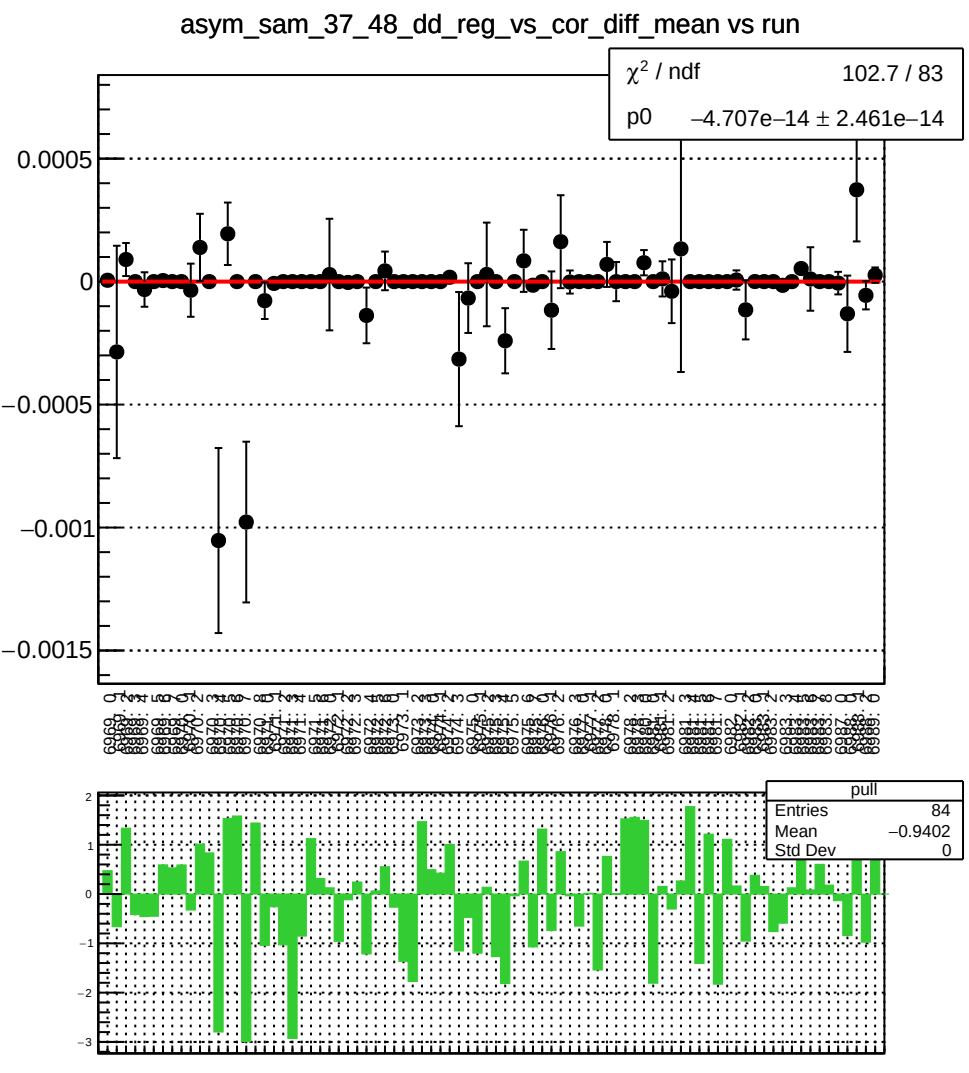

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.6 / 83
p0 940.4 ± 456.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 130.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.007131
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

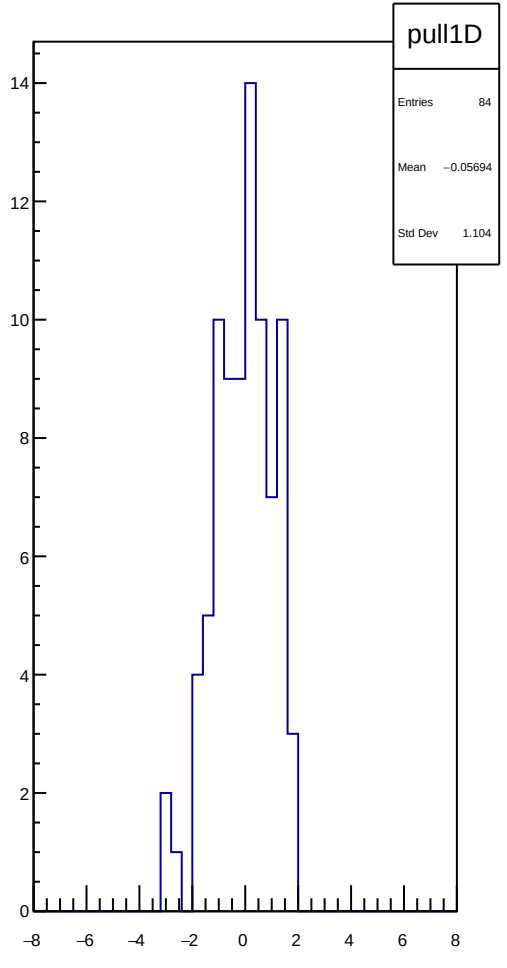

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.406e+04 / 83
p0 415.5 ± 0.3226
540
520
500
480
460
440
420
400
380
360
340

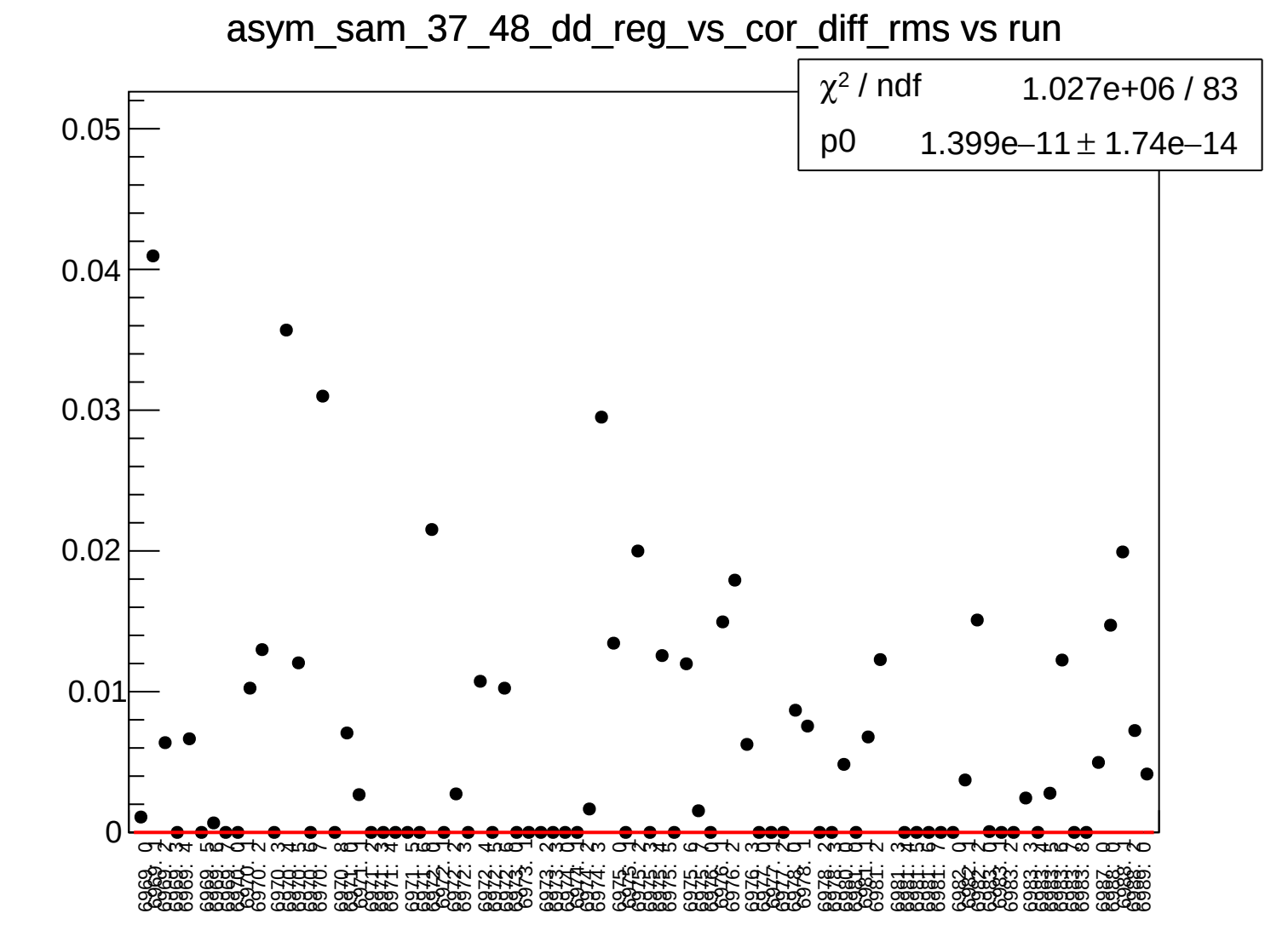

asym_sam_37_48_dd_mean vs run
χ² / ndf 102.3 / 83
p0 −929.8 ± 446.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 107.8
Std Dev 0
3
2
1
0
−1
−2

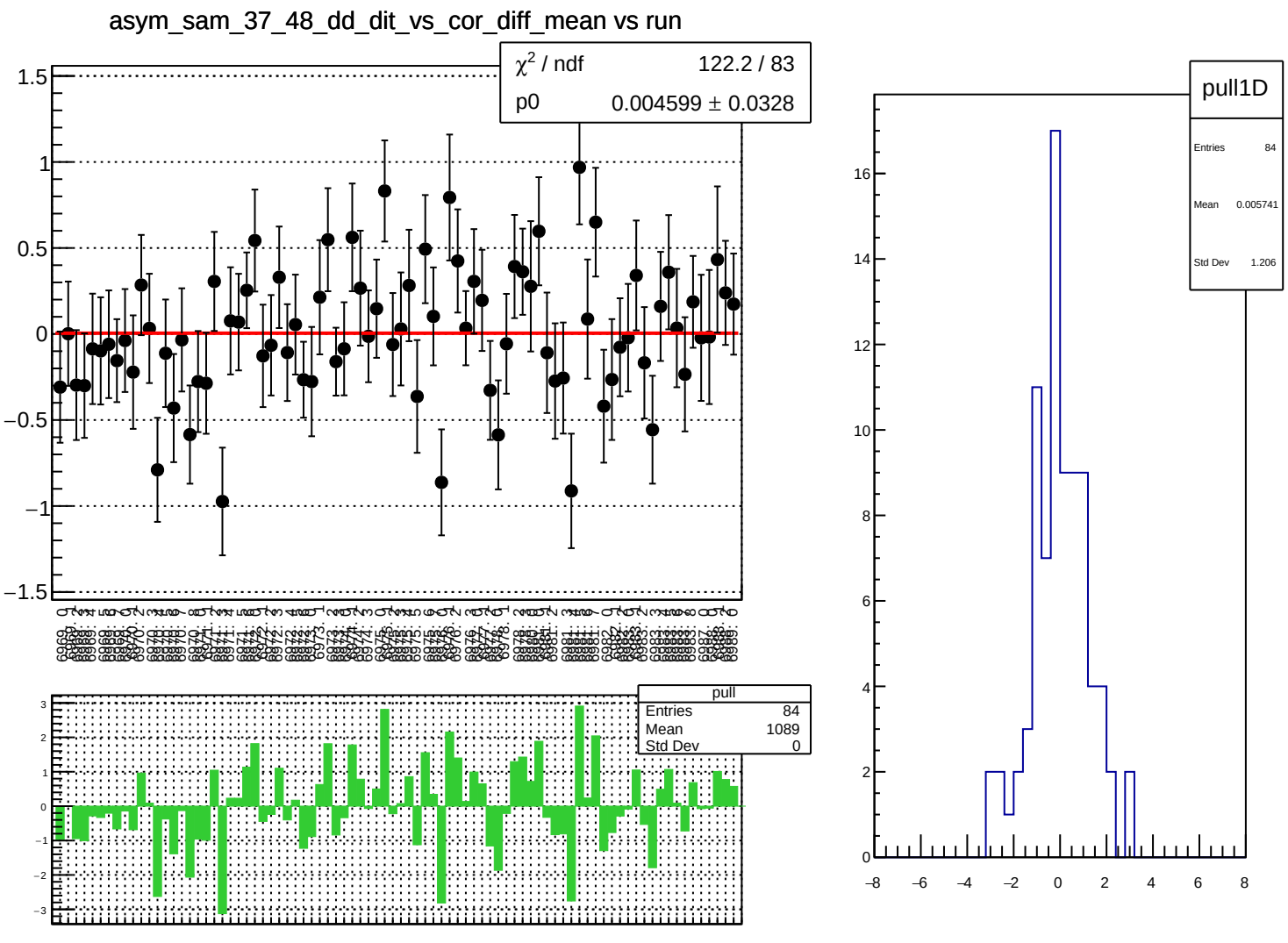

pull1D
Entries 84
Mean −0.007713
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

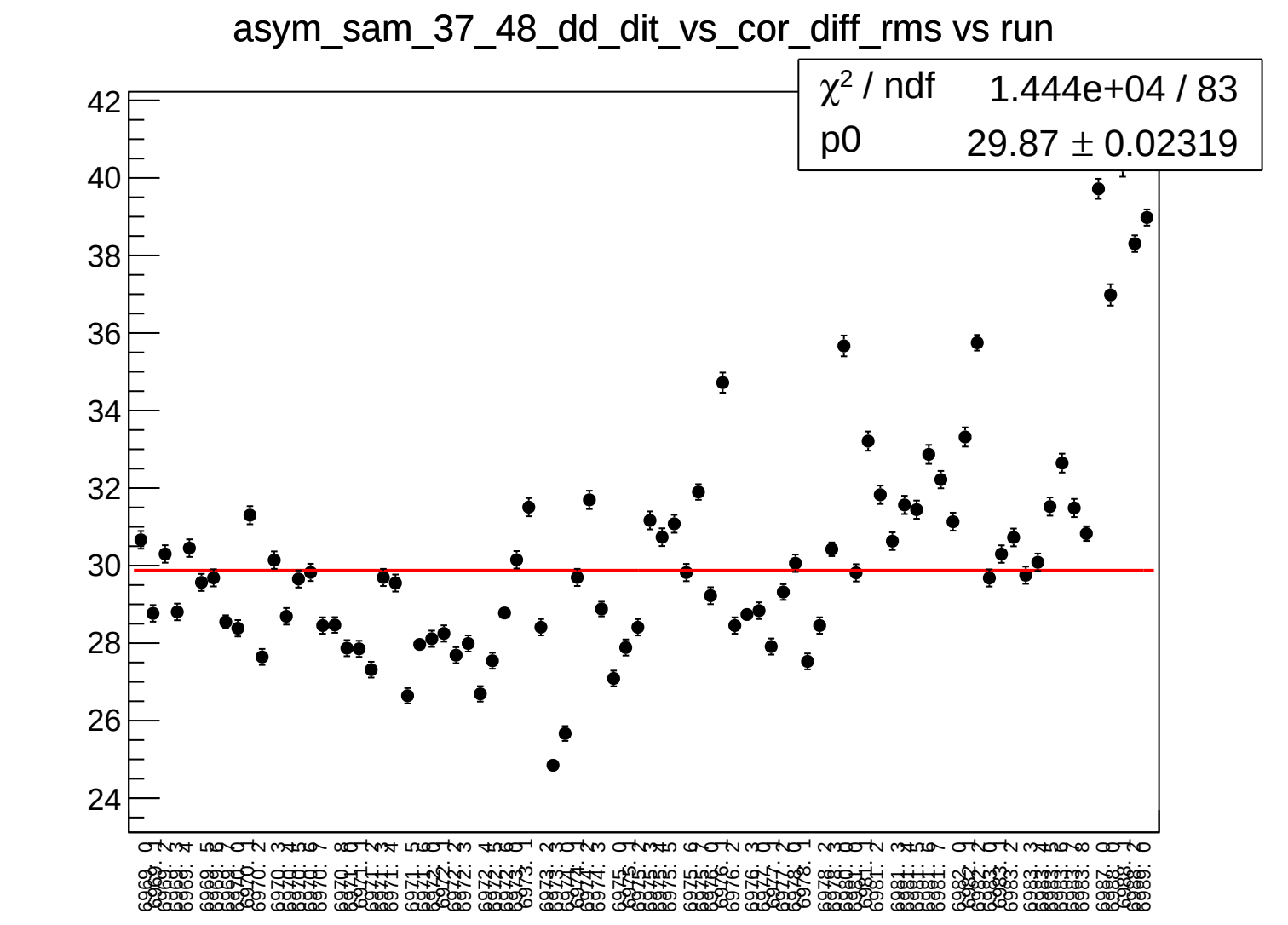

asym_sam_37_48_dd_rms vs run
χ² / ndf 1.588e+04 / 83
p0 406.4 ± 0.3157
540
520
500
480
460
440
420
400
380
360
340
320

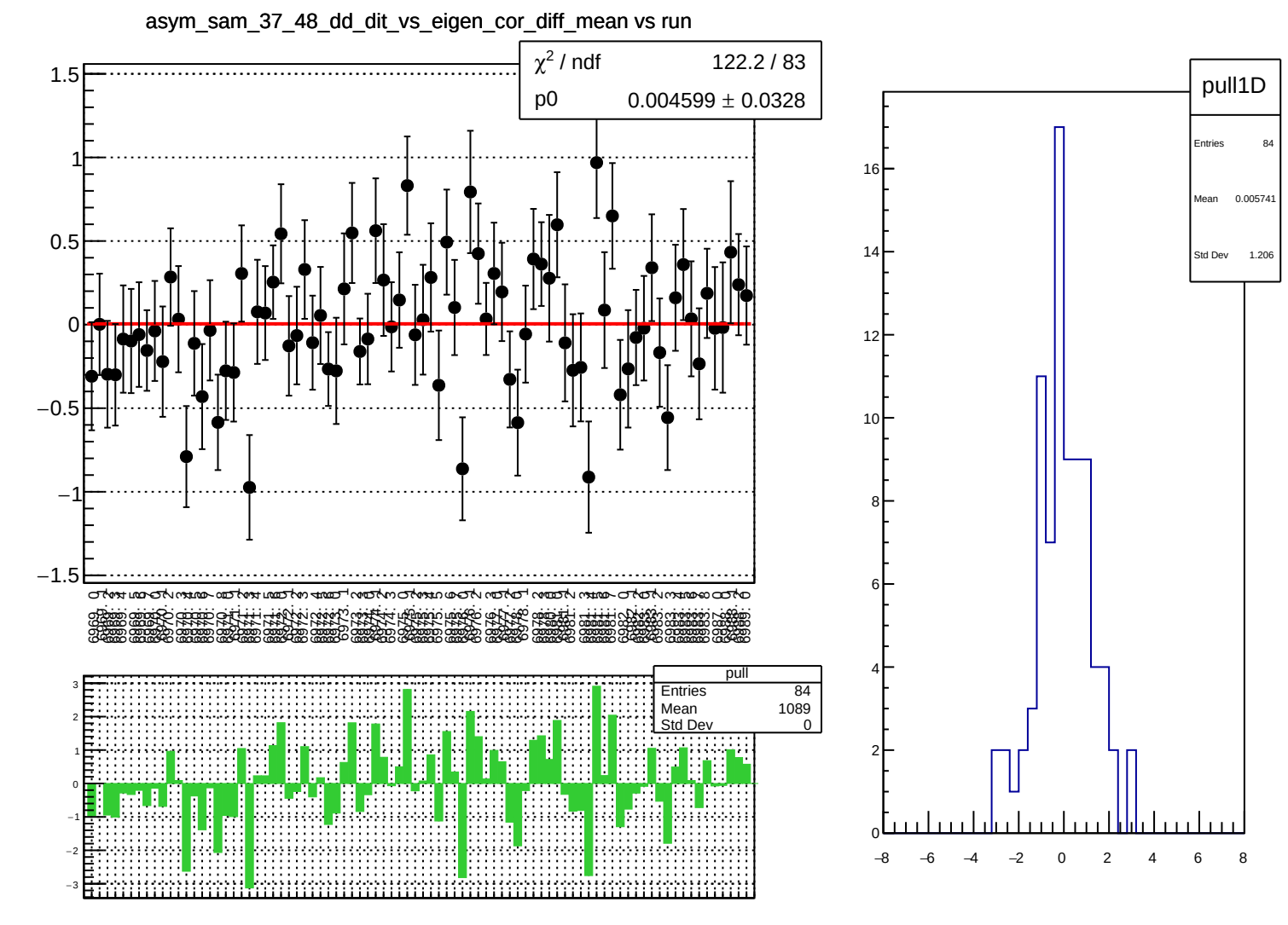

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 83
p0 −4.707e−14 ± 2.461e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 84
Mean −0.9402
Std Dev 0
2
1
0
−1
−2
−3

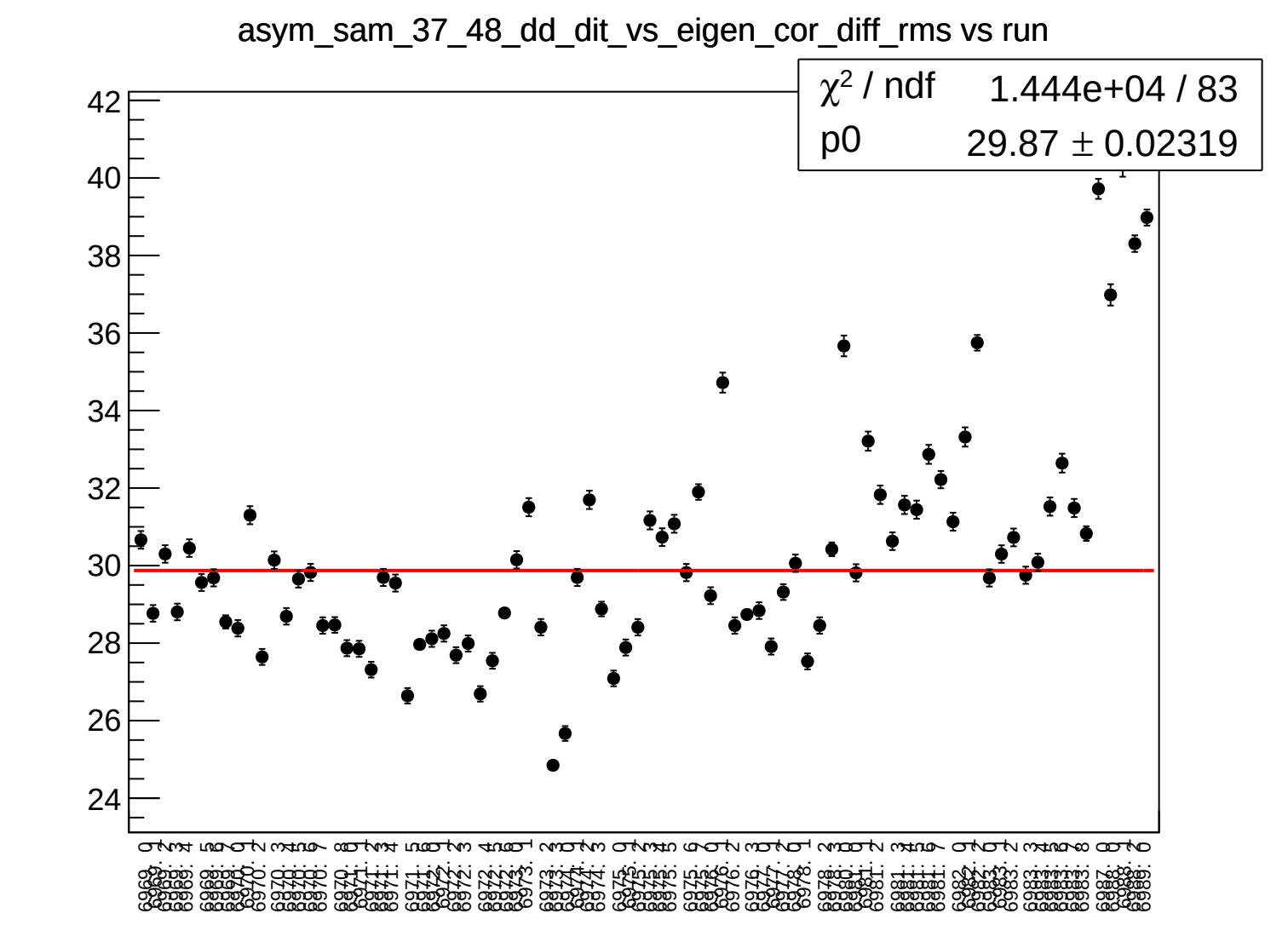

pull1D
Entries 84
Mean −0.05694
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

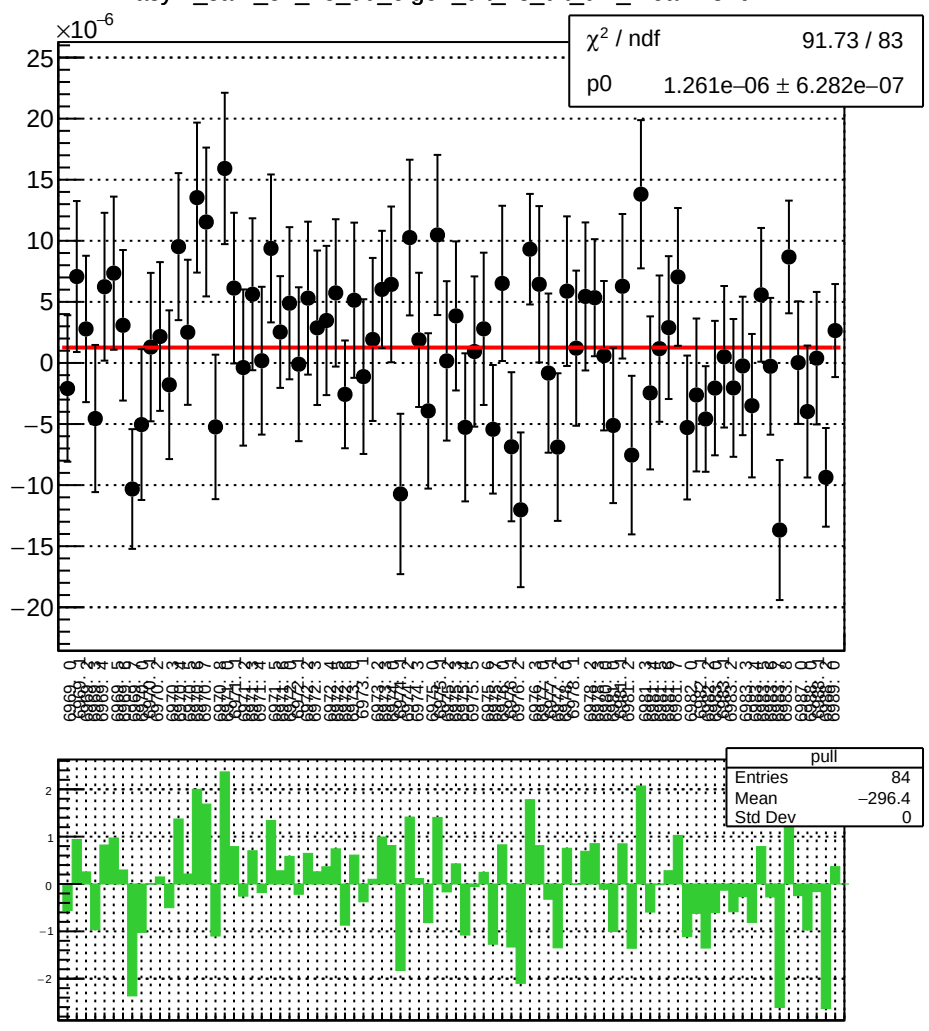

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.027e+06 / 83
p0 1.399e−11 ± 1.74e−14
0.05
0.04
0.03
0.02
0.01
0

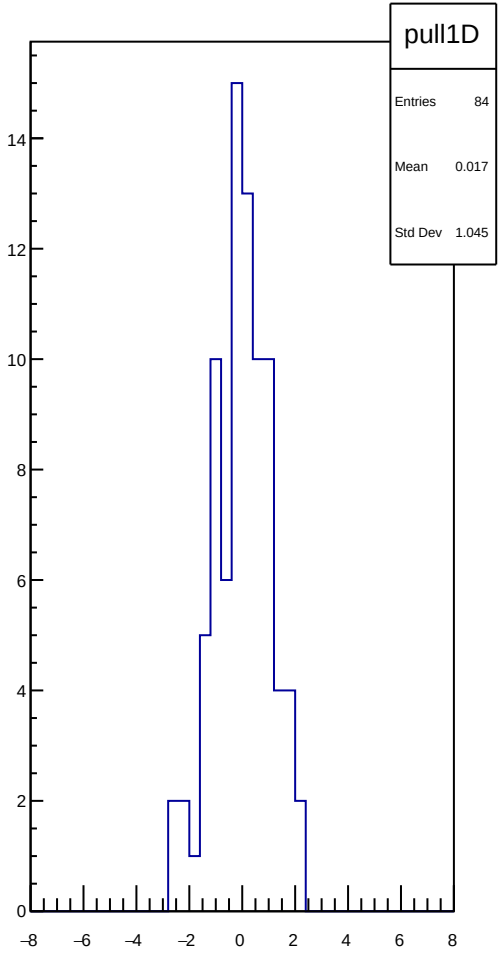

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 122.2 / 83
p0 0.004599 ± 0.0328
pull
Entries 84
Mean 1089
Std Dev 0
pull1D
Entries 84
Mean 0.005741
Std Dev 1.206

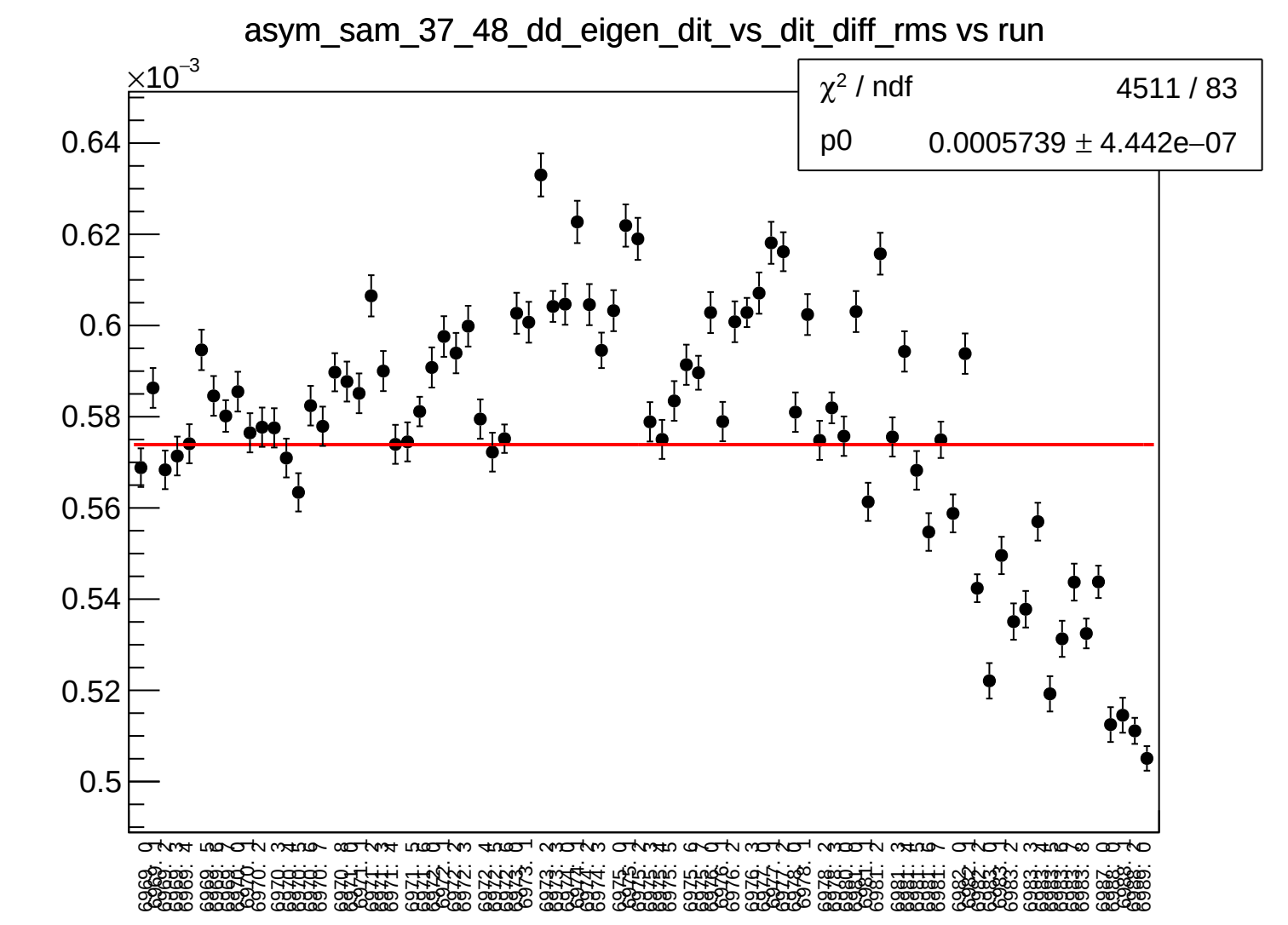

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.444e+04 / 83
p0 29.87 ± 0.02319
42
40
38
36
34
32
30
28
26
24

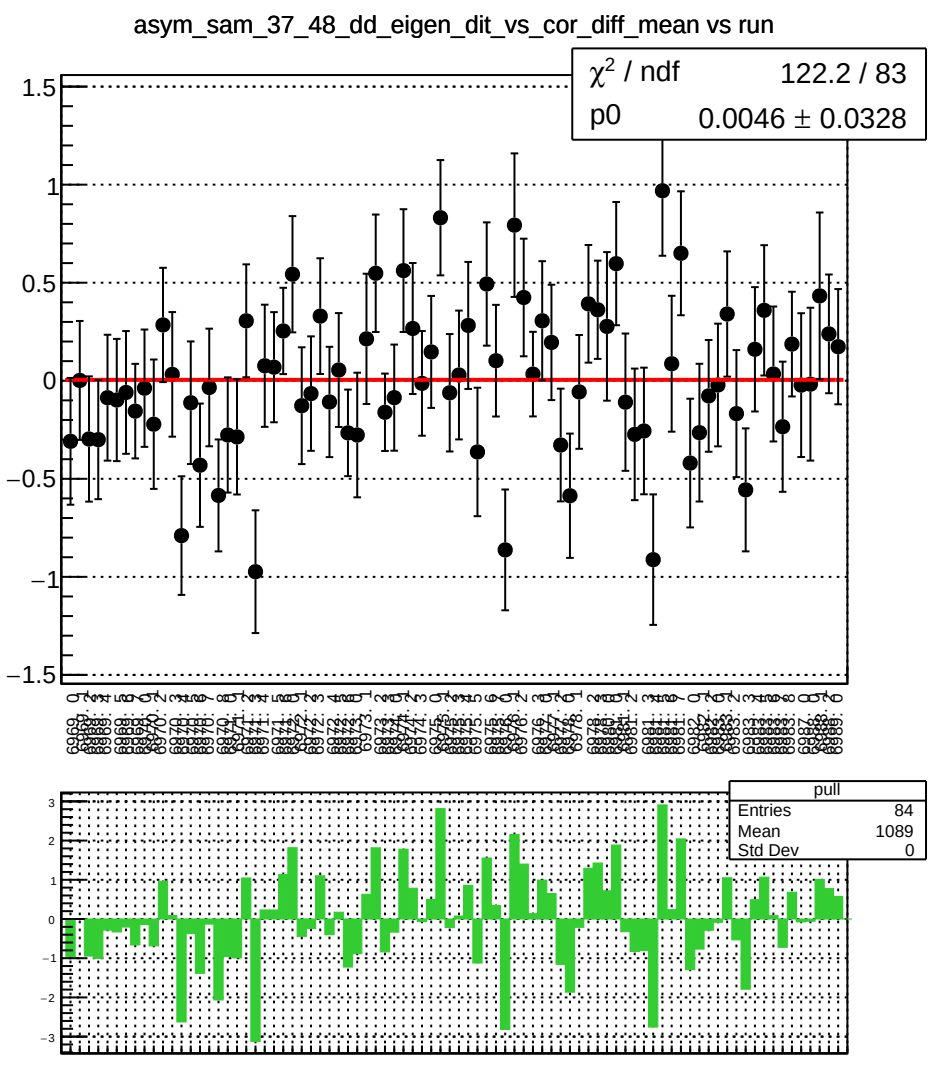

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.2 / 83
p0 0.004599 ± 0.0328
pull
Entries 84
Mean 1089
Std Dev 0
pull1D
Entries 84
Mean 0.005741
Std Dev 1.206

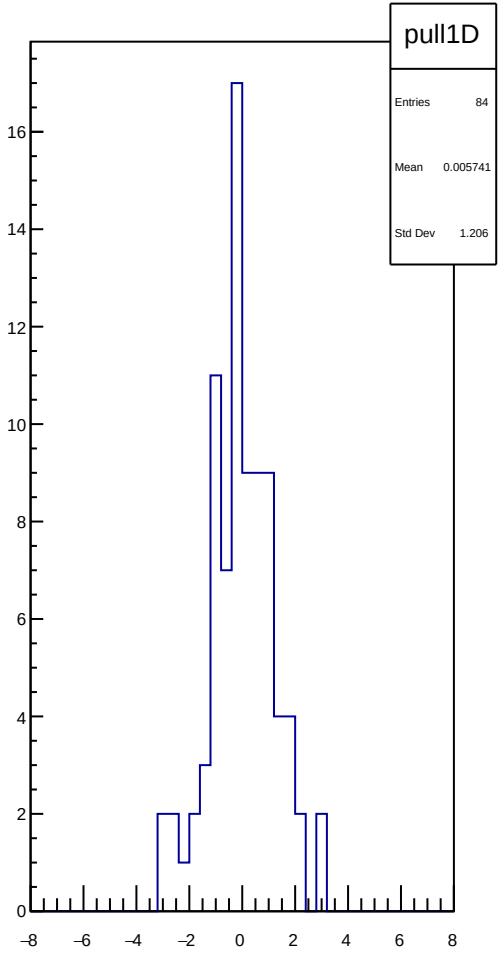

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.444e+04 / 83
p0 29.87 ± 0.02319
42
40
38
36
34
32
30
28
26
24

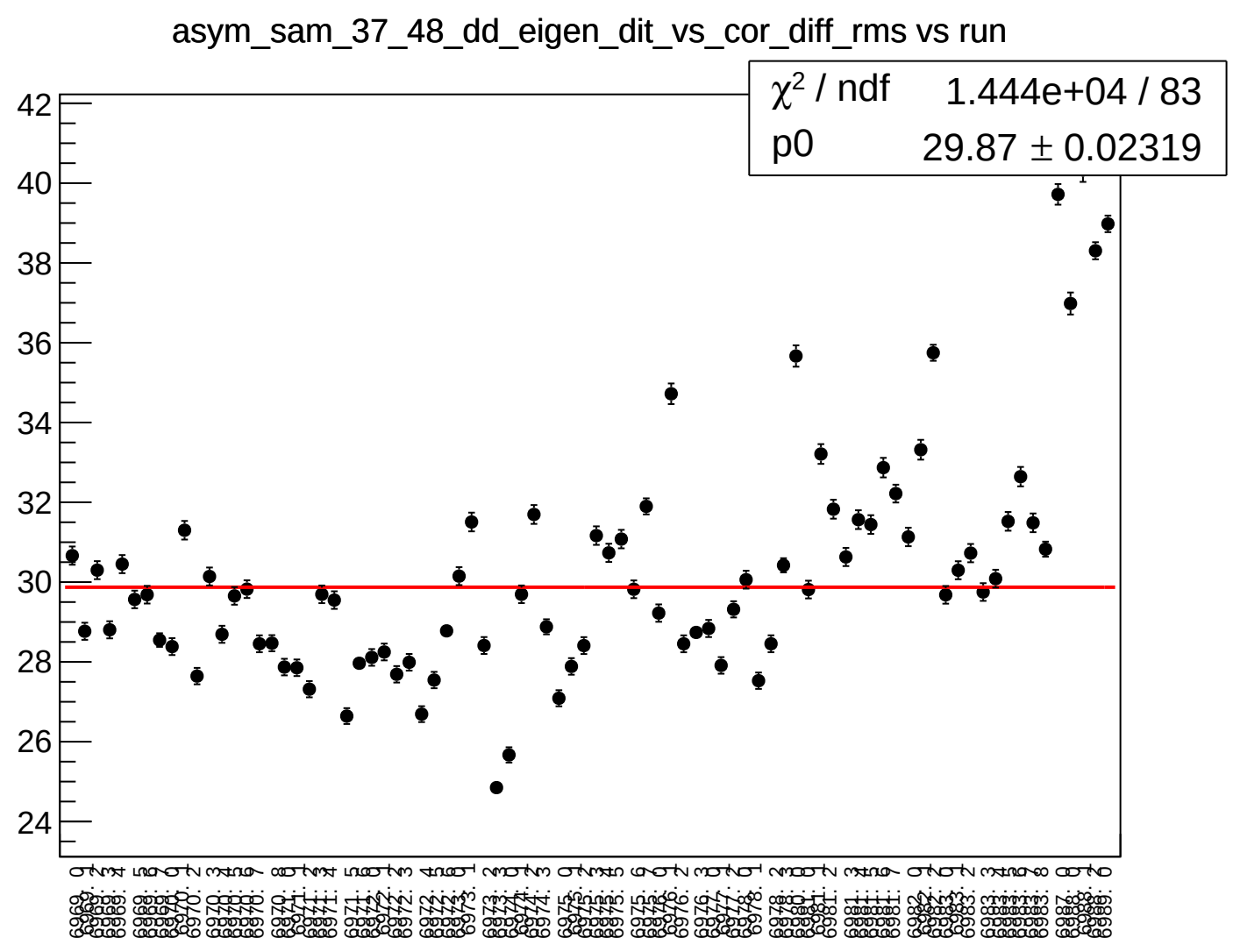

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 91.73 / 83
p0 1.261e−06 ± 6.282e−07
pull
Entries 84
Mean −296.4
Std Dev 0

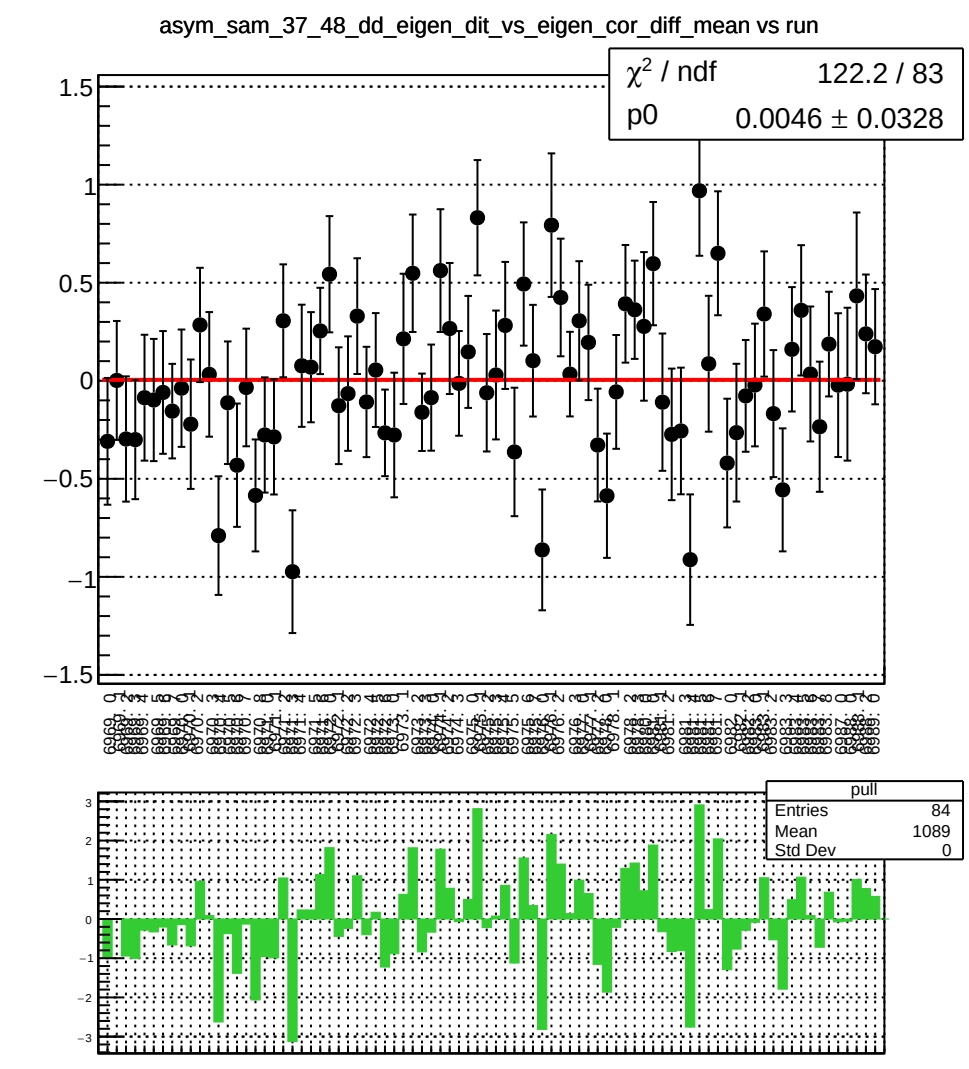

pull1D
Entries 84
Mean 0.017
Std Dev 1.045

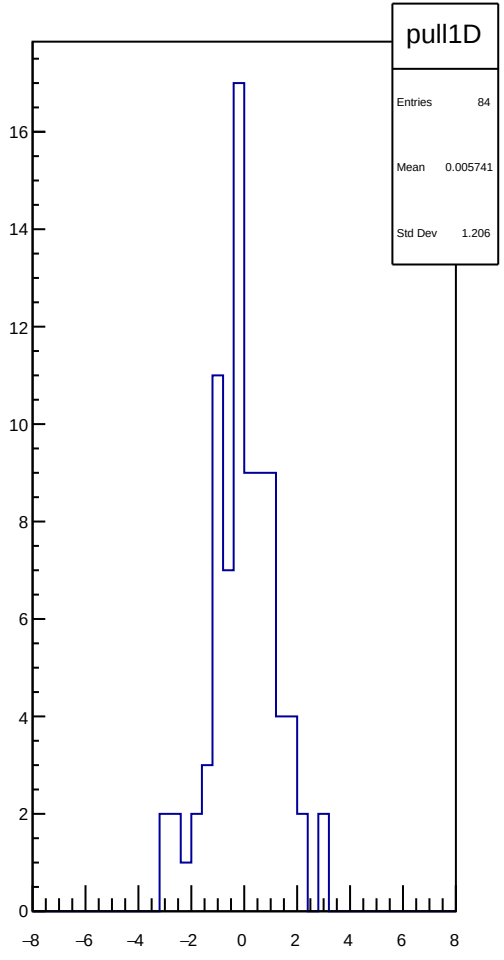

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4511 / 83
p0 0.0005739 ± 4.442e−07
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5

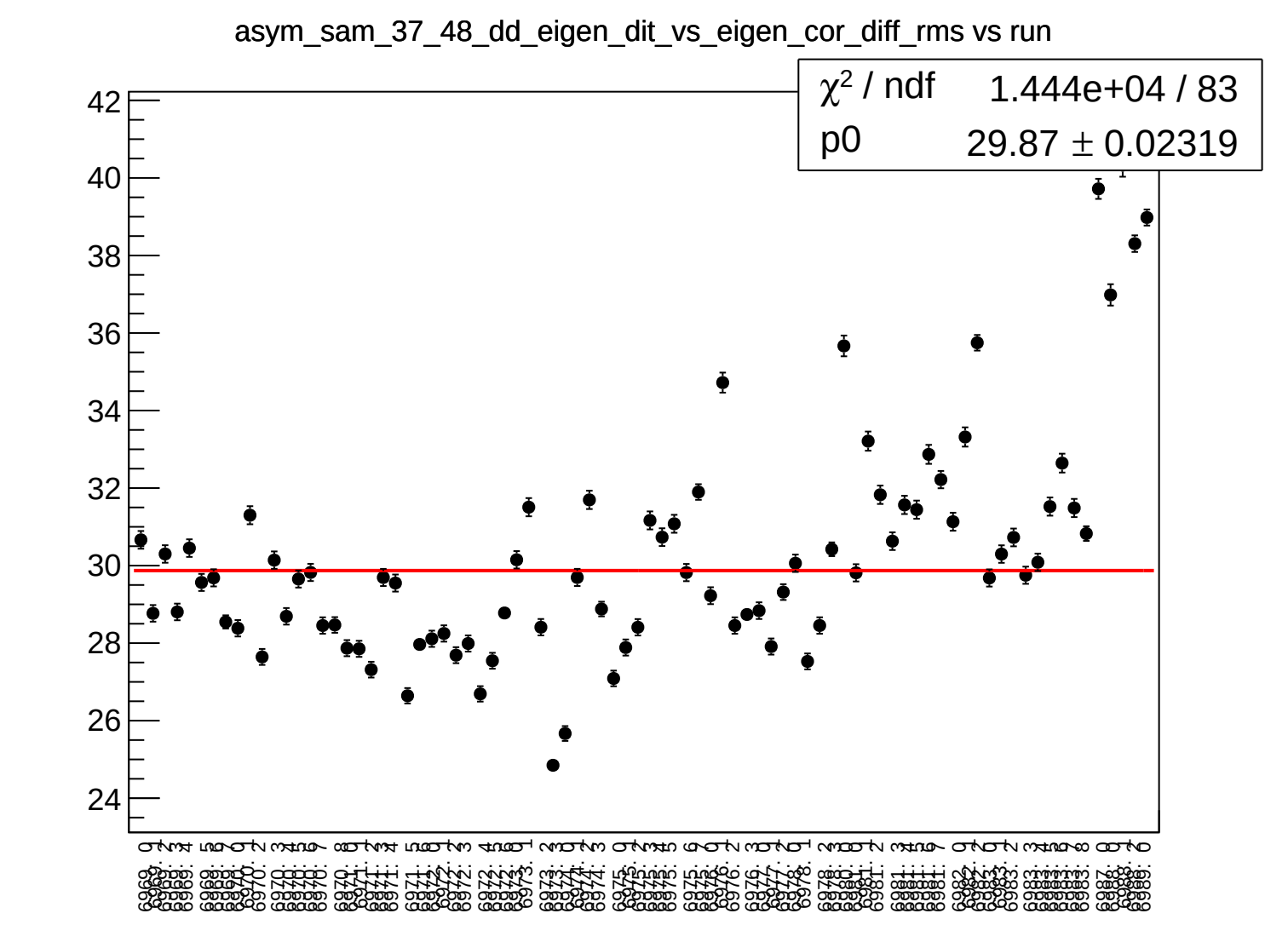

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122.2 / 83
p0 0.0046 ± 0.0328
pull
Entries 84
Mean 1089
Std Dev 0

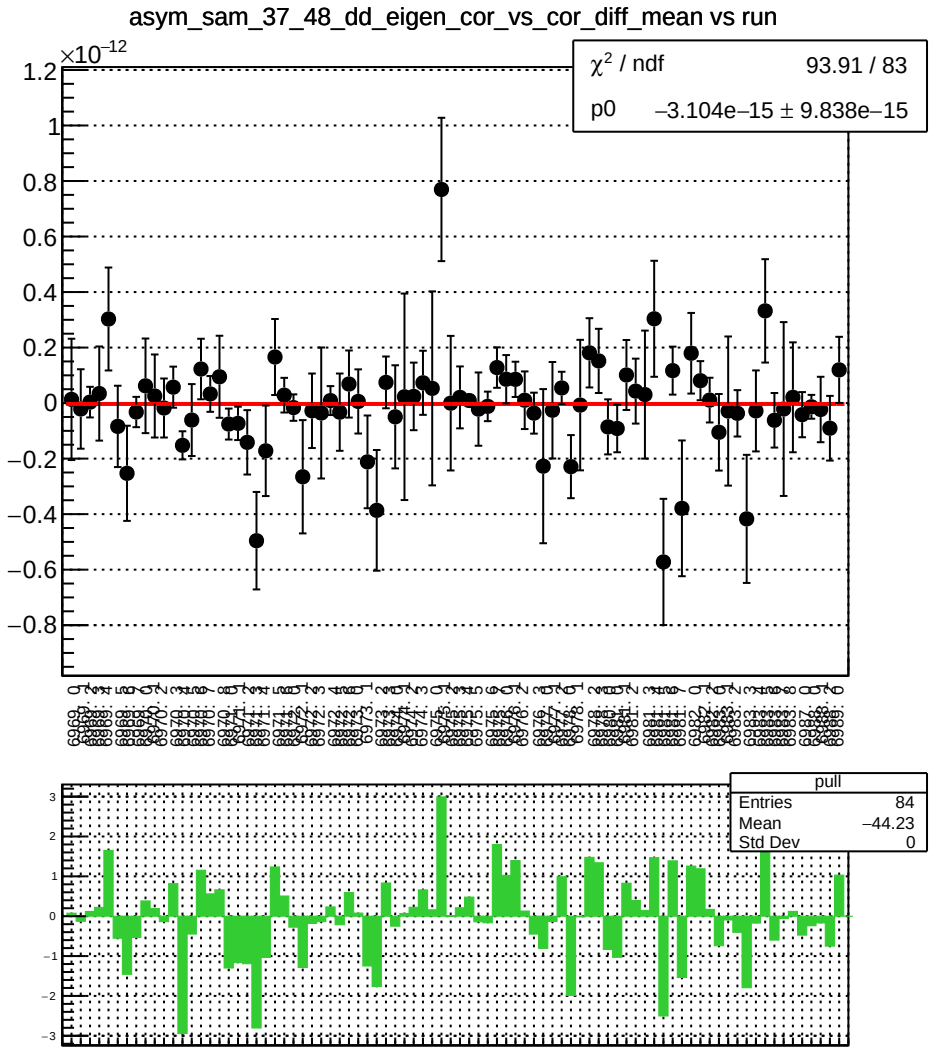

pull1D
Entries 84
Mean 0.005741
Std Dev 1.206

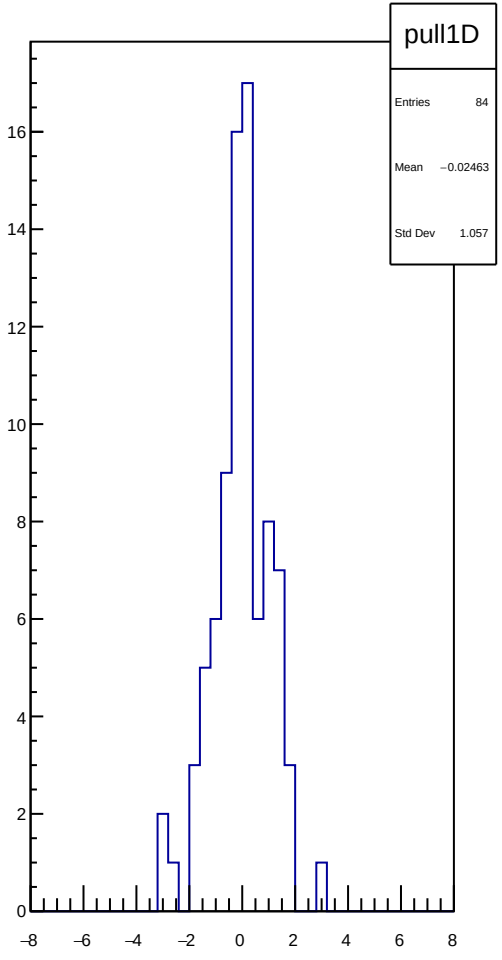

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.444e+04 / 83
p0 29.87 ± 0.02319
42
40
38
36
34
32
30
28
26
24

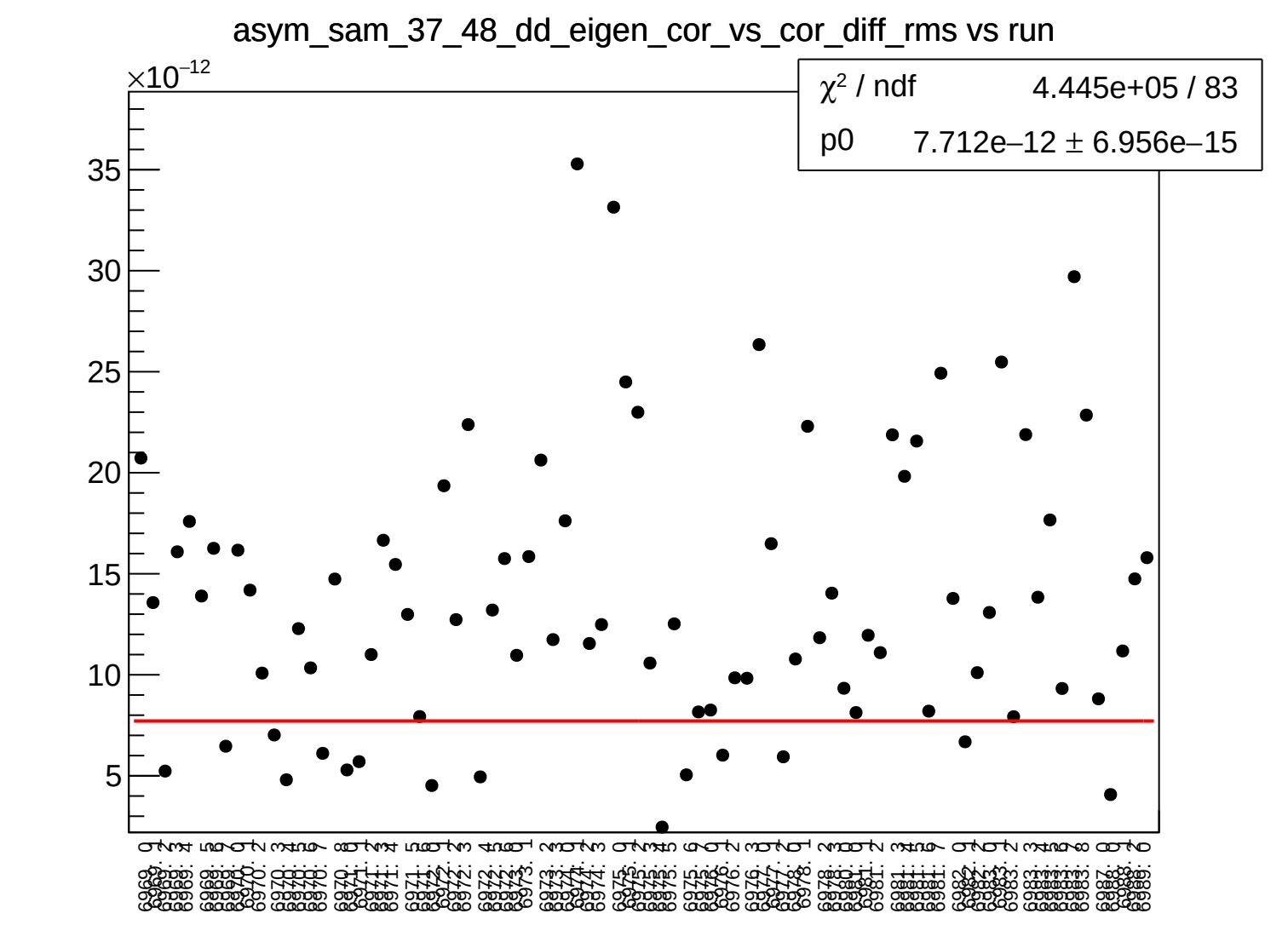

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.2 / 83
p0 0.0046 ± 0.0328
pull
Entries 84
Mean 1089
Std Dev 0

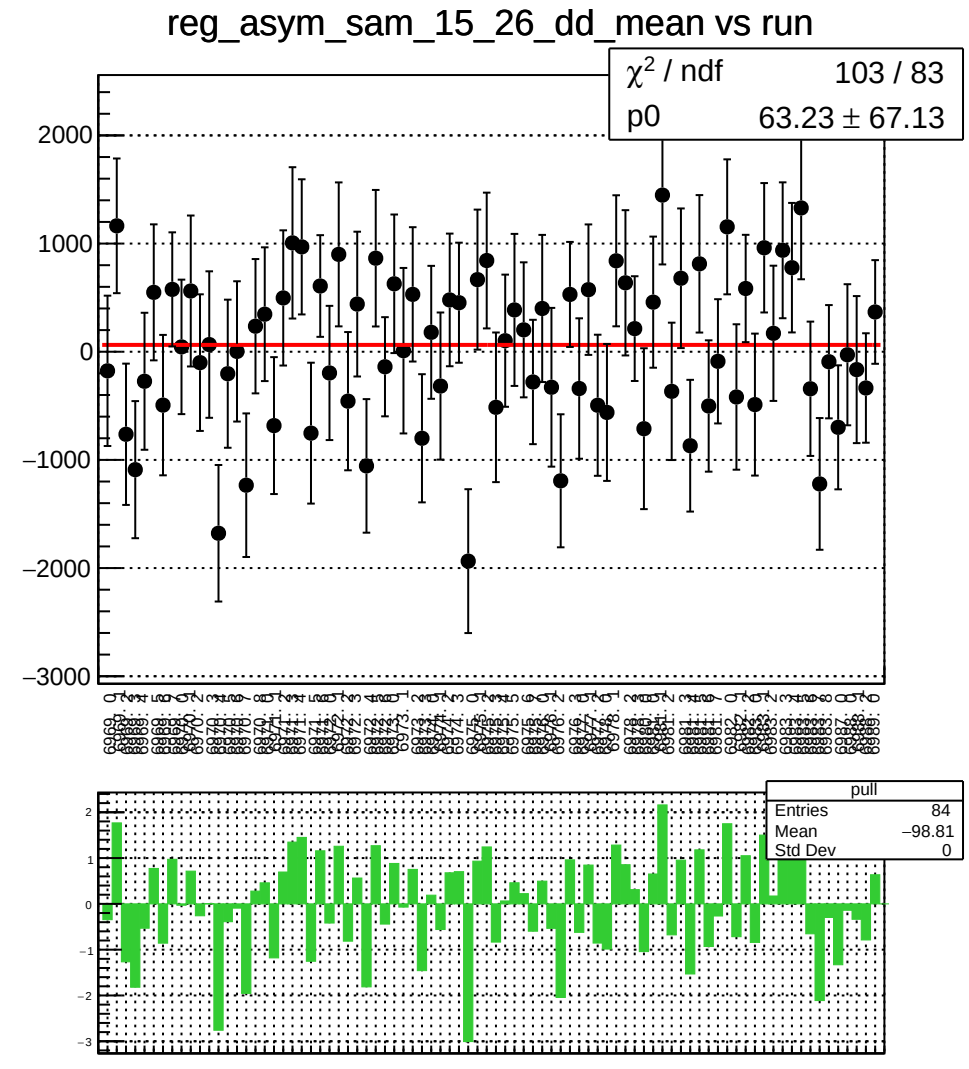

pull1D
Entries 84
Mean 0.005741
Std Dev 1.206

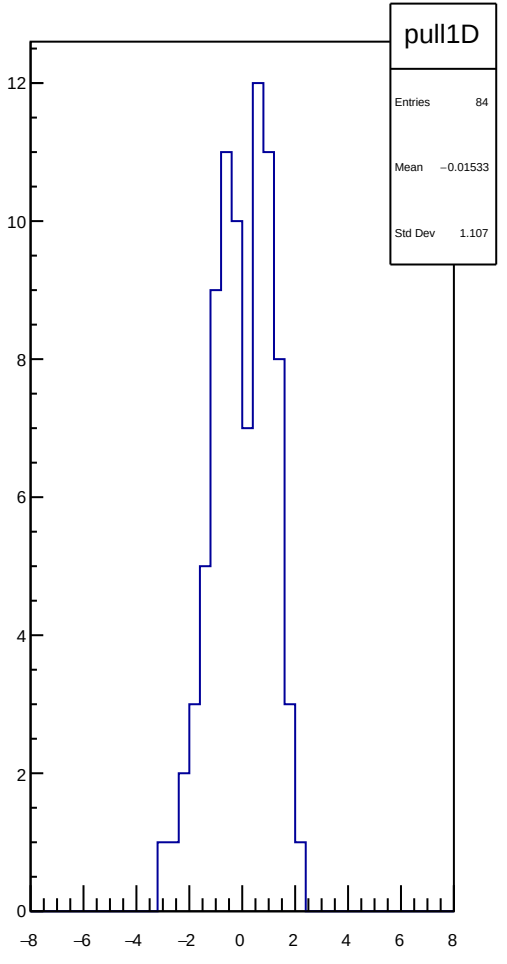

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.444e+04 / 83
p0 29.87 ± 0.02319
42
40
38
36
34
32
30
28
26
24

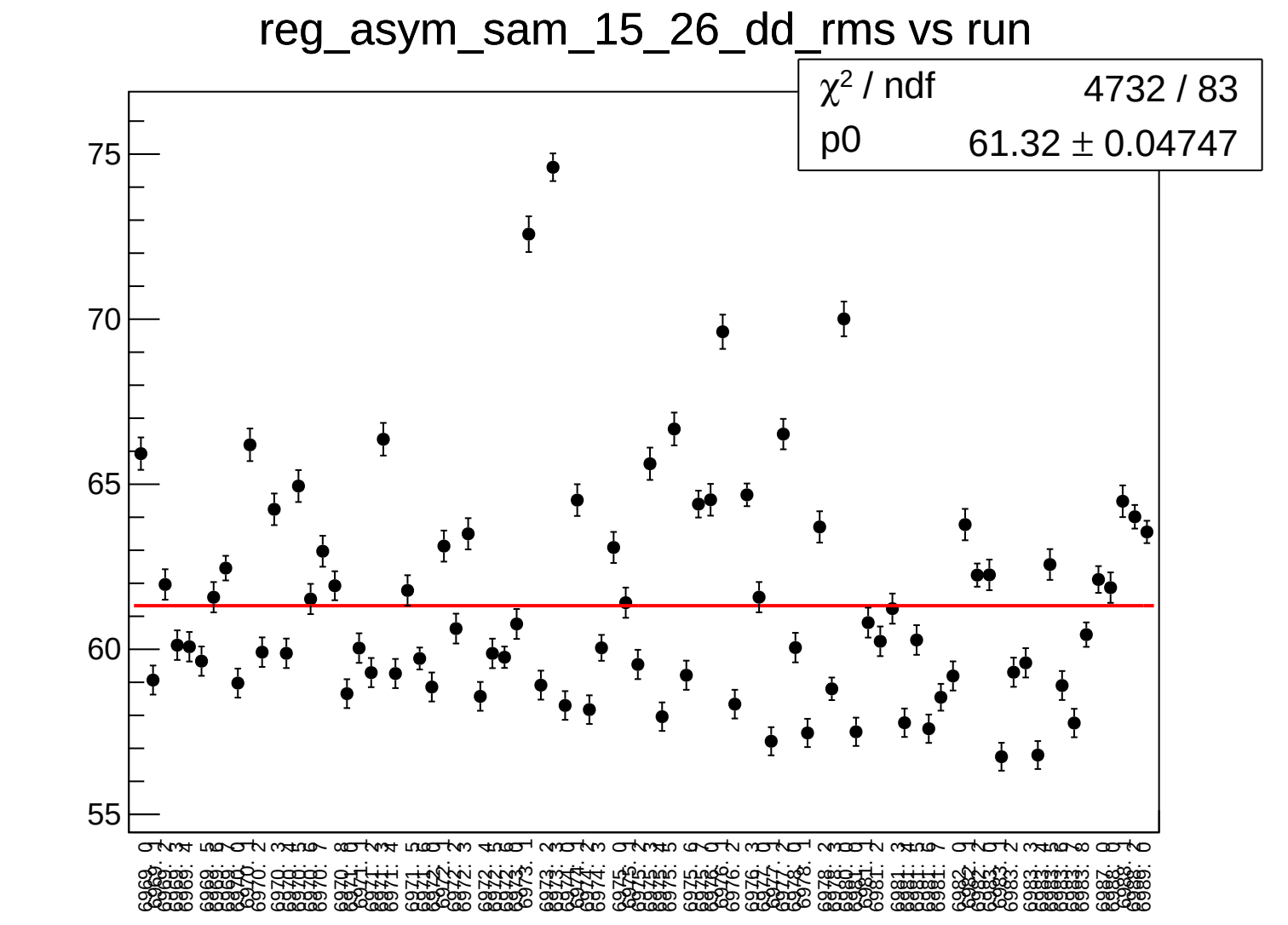

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.91 / 83
p0 −3.104e−15 ± 9.838e−15
pull
Entries 84
Mean −44.23
Std Dev 0

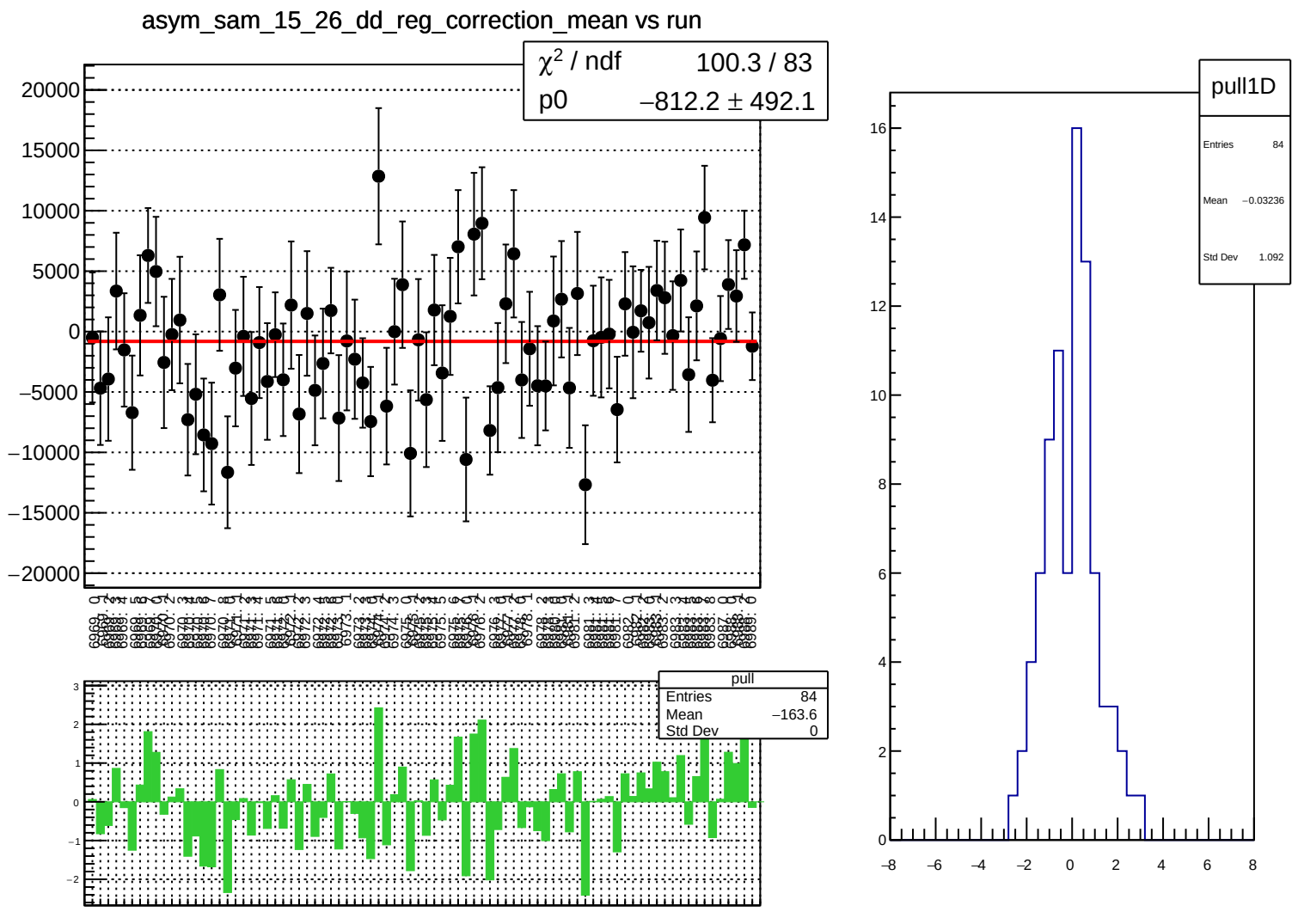

pull1D
Entries 84
Mean −0.02463
Std Dev 1.057

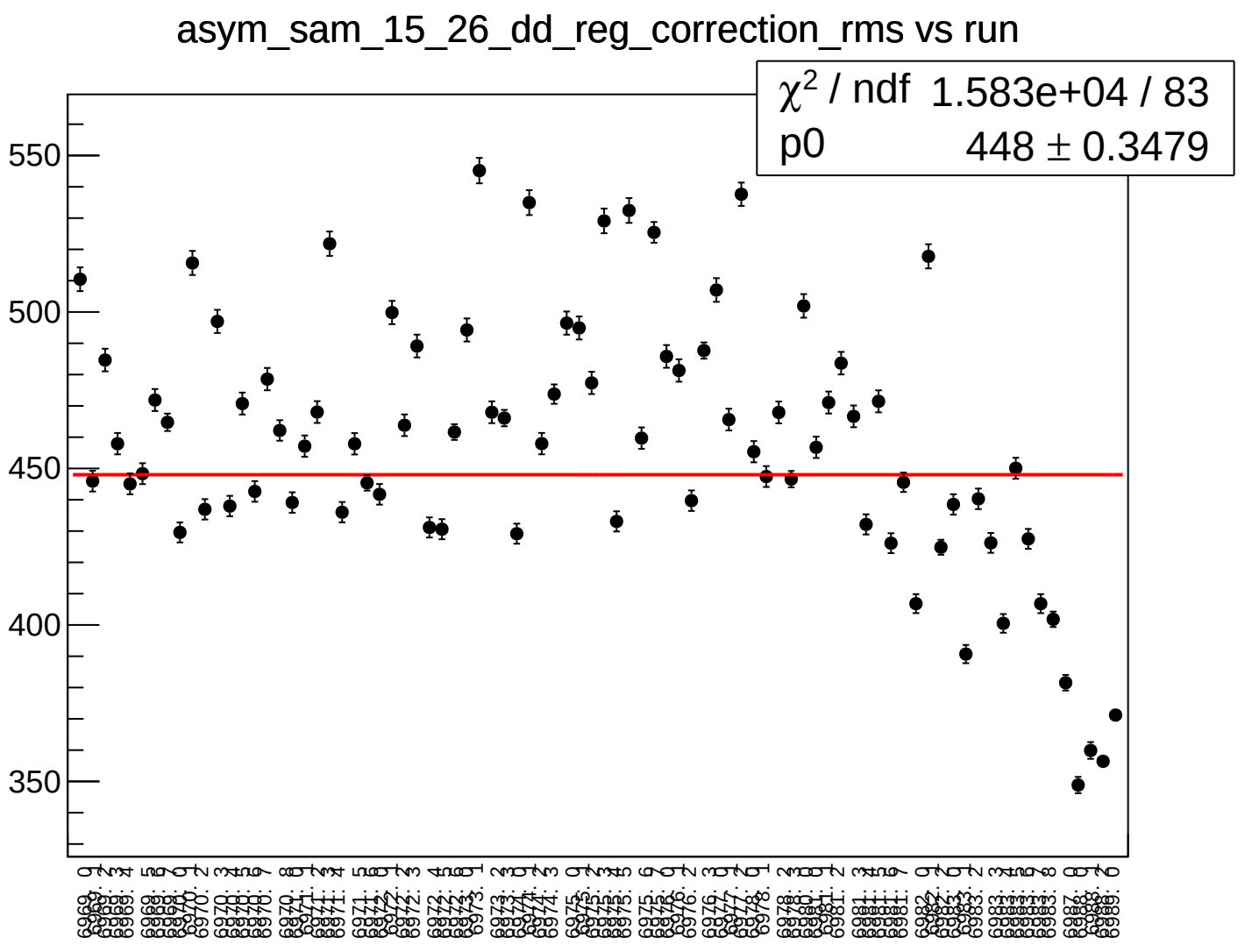

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.445e+05 / 83
p0 7.712e−12 ± 6.956e−15
35
30
25
20
15
10
5

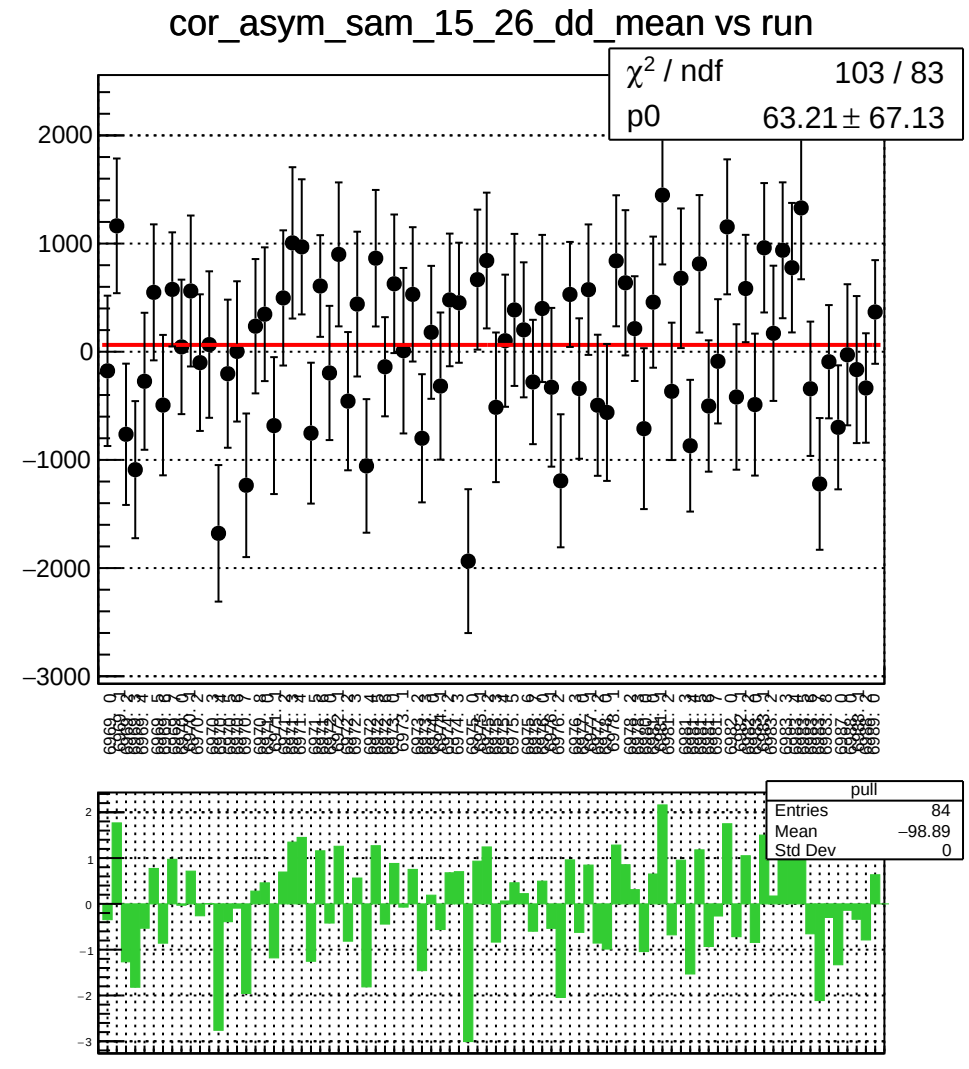

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 103 / 83
p0 63.23 ± 67.13
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −98.81
Std Dev 0
2
1
0
−1
−2
−3

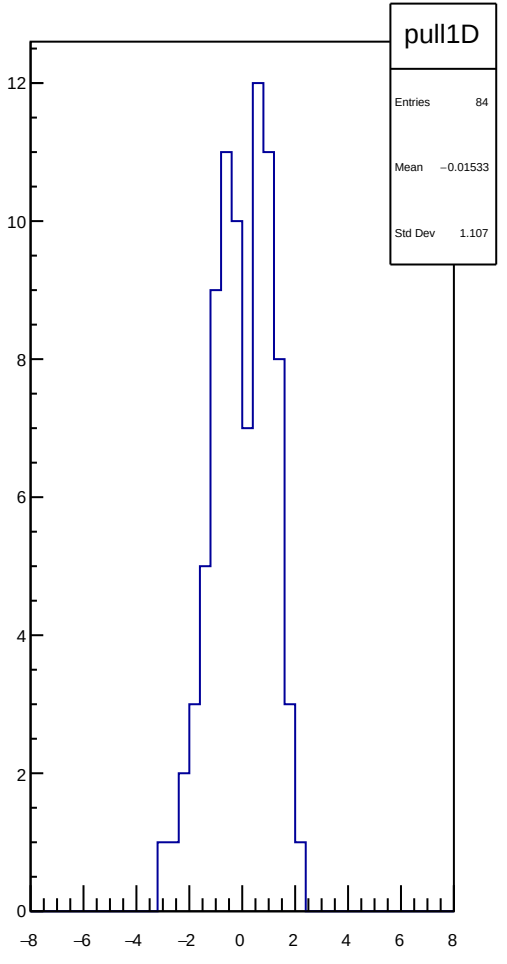

pull1D
Entries 84
Mean −0.01533
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

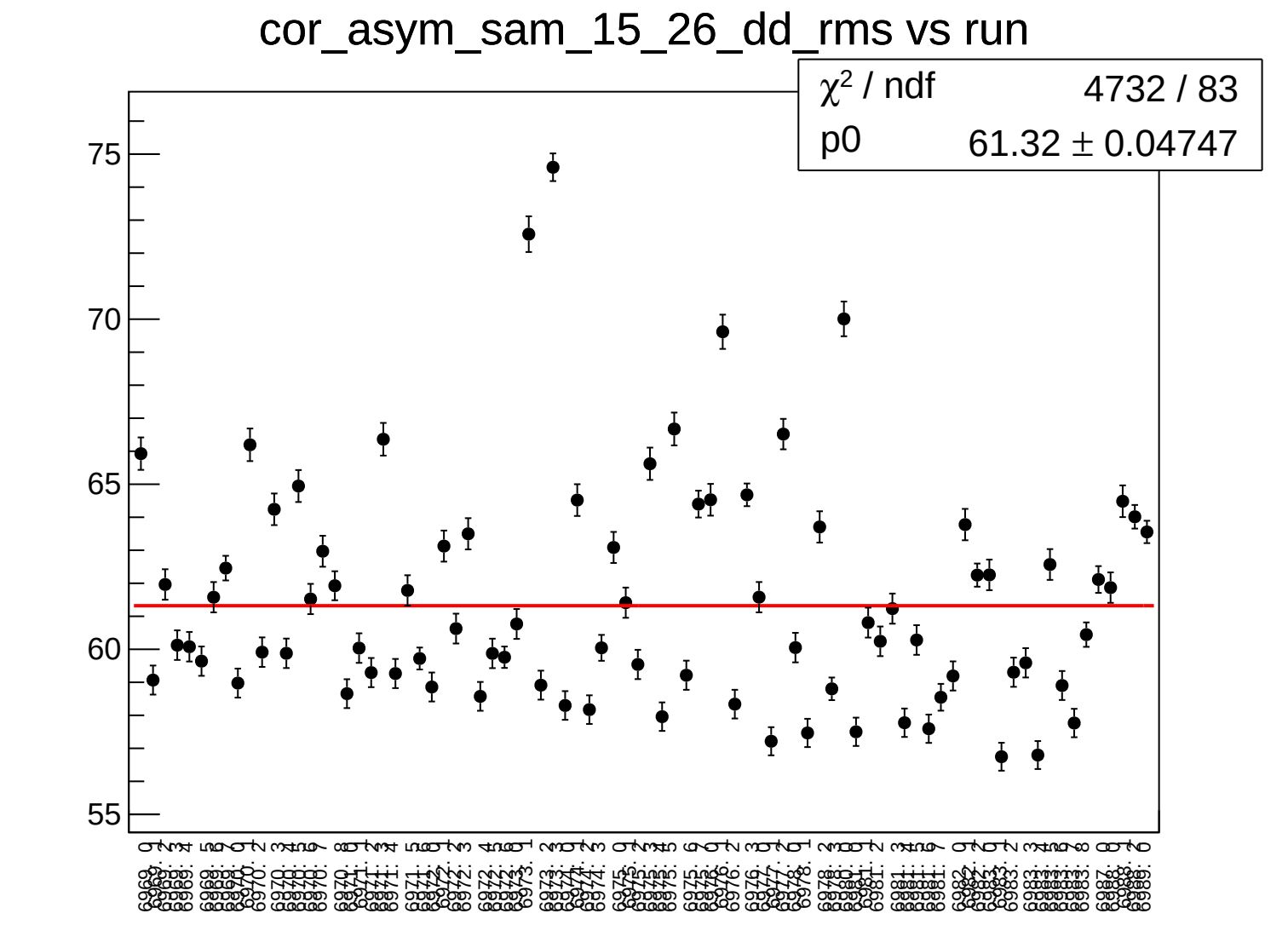

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4732 / 83
p0 61.32 ± 0.04747
75
70
65
60
55

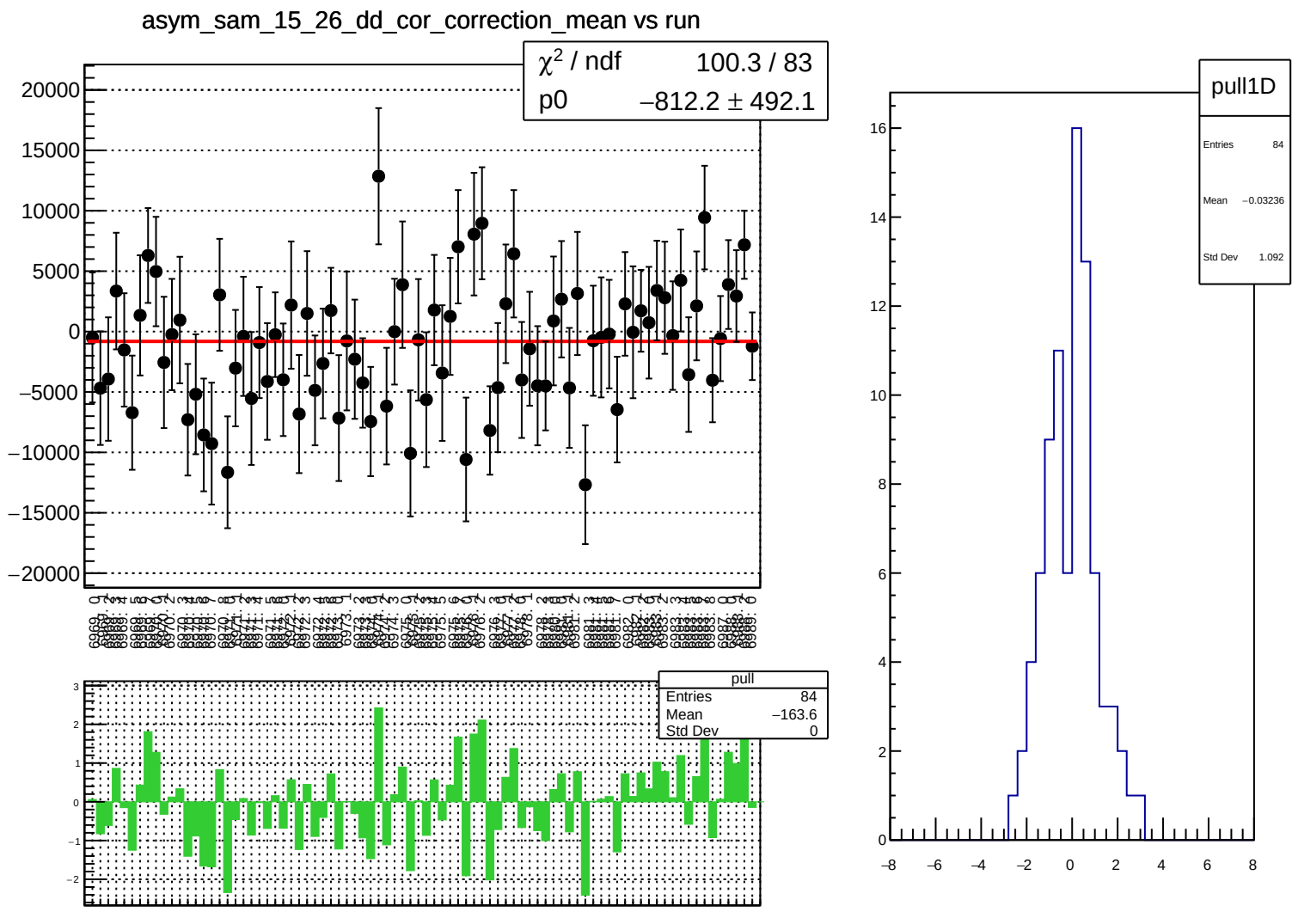

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 100.3 / 83
p0 −812.2 ± 492.1
pull
Entries 84
Mean −163.6
Std Dev 0
pull1D
Entries 84
Mean −0.03236
Std Dev 1.092

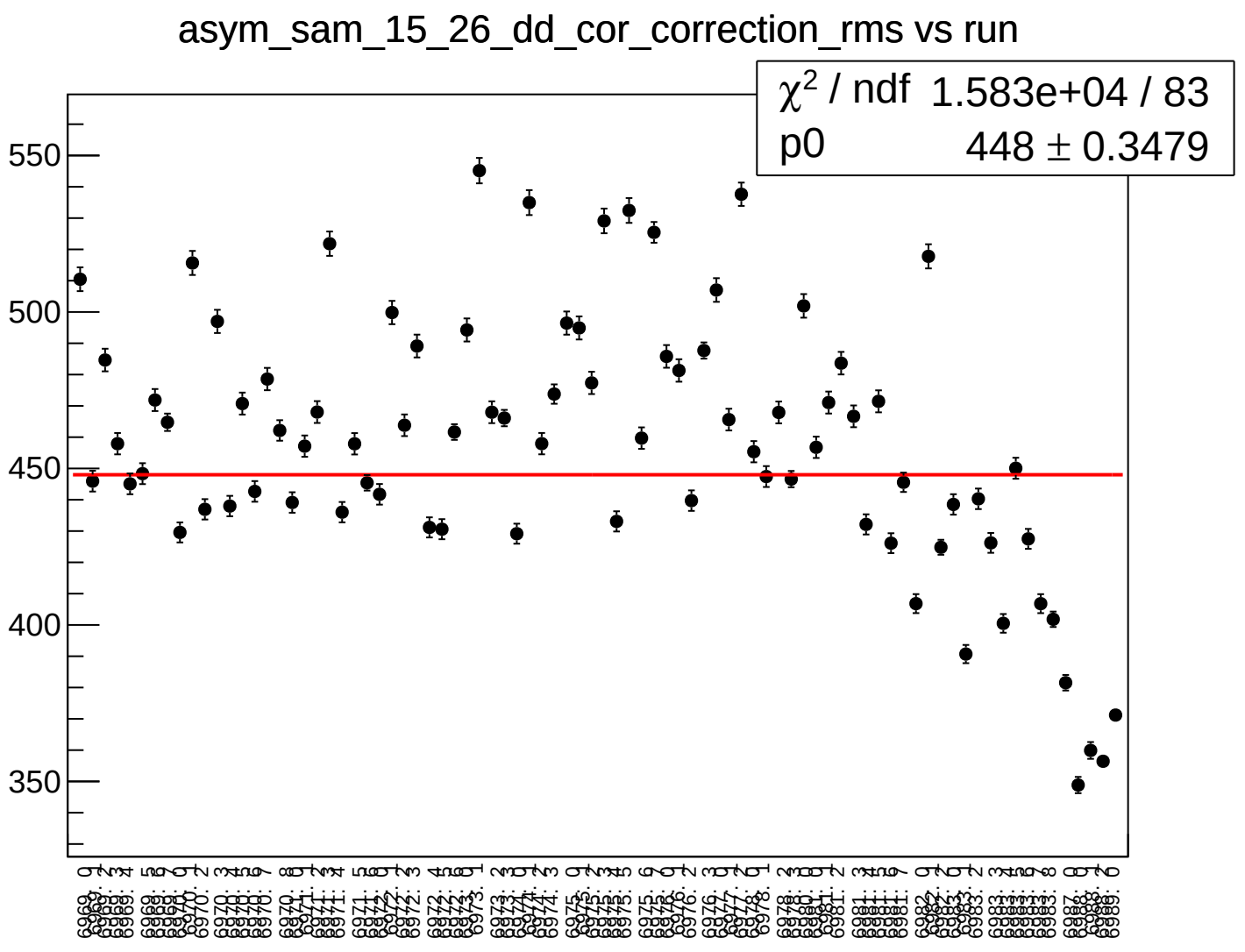

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.583e+04 / 83
p0 448 ± 0.3479
550
500
450
400
350

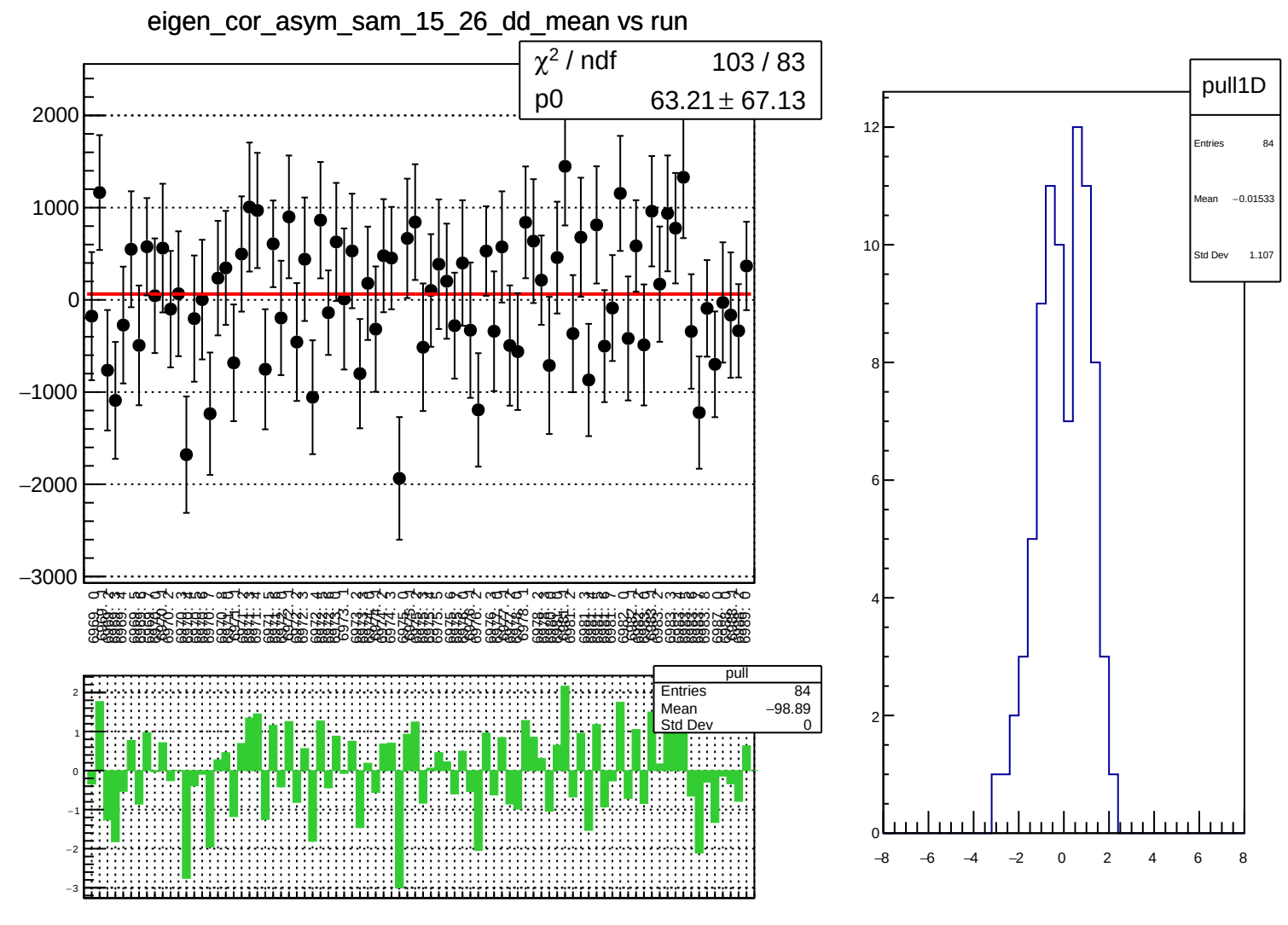

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 103 / 83
p0 63.21 ± 67.13
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −98.89
Std Dev 0
2
1
0
−1
−2
−3

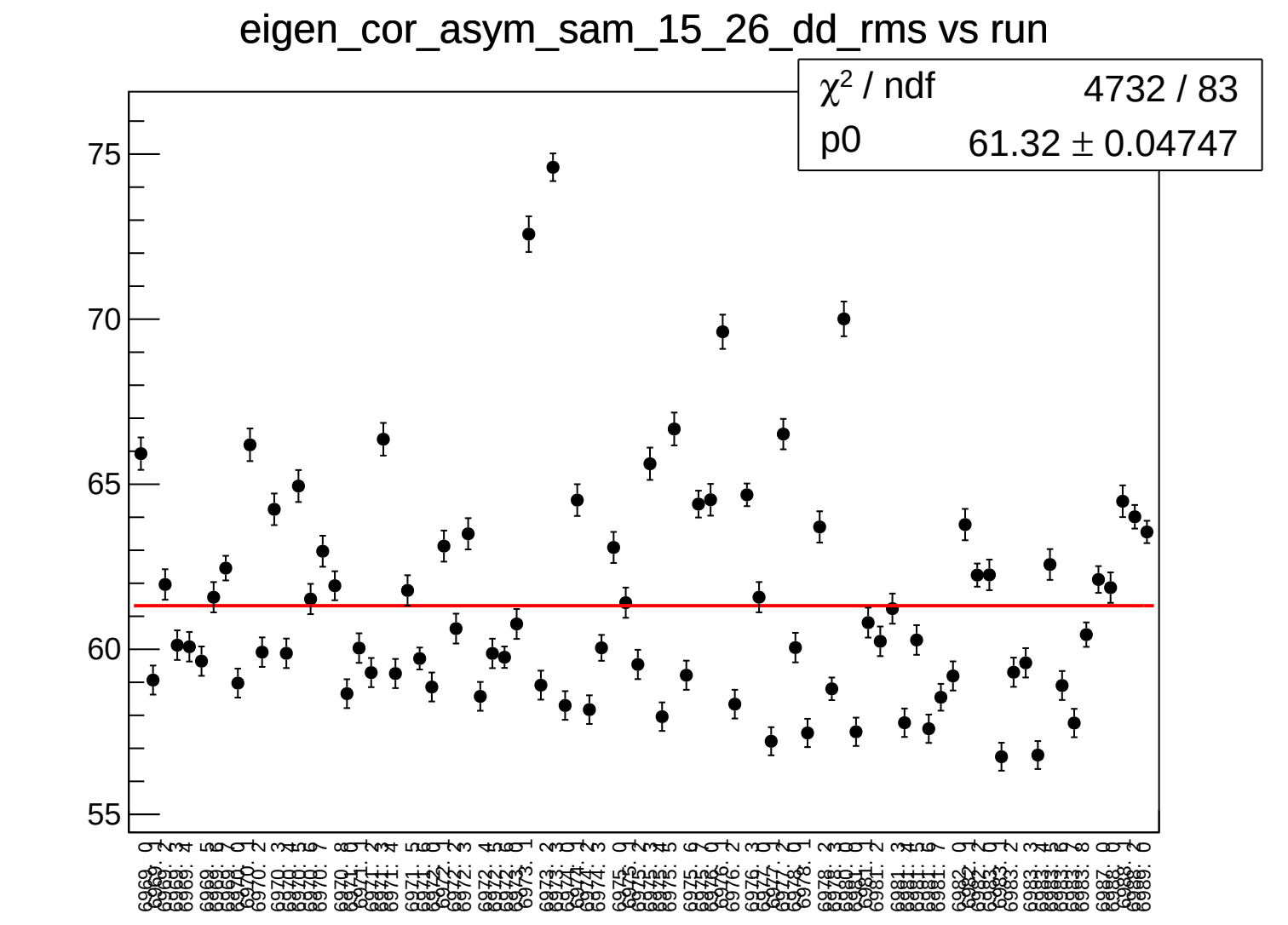

pull1D
Entries 84
Mean −0.01533
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

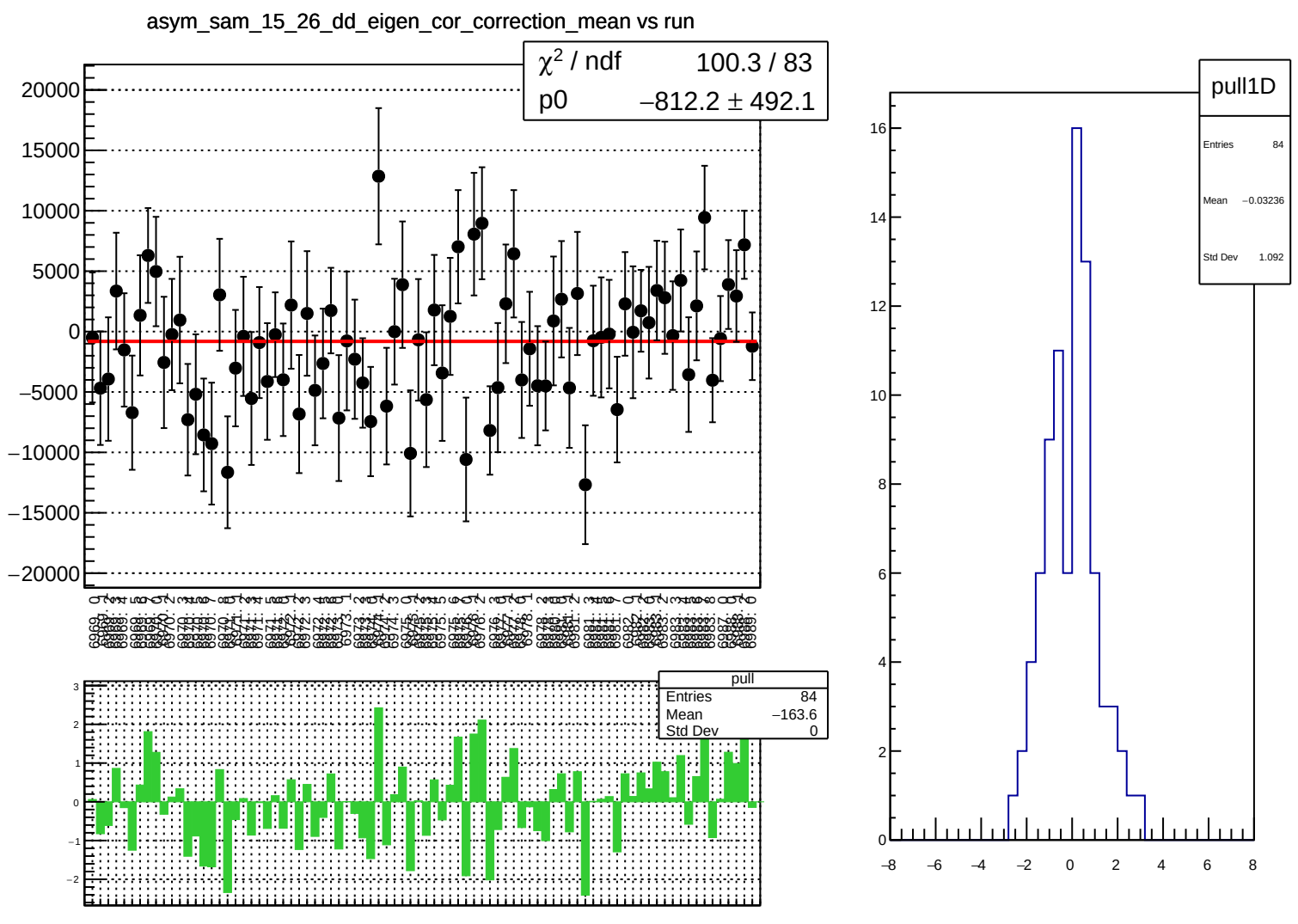

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 4732 / 83
p0 61.32 ± 0.04747
75
70
65
60
55

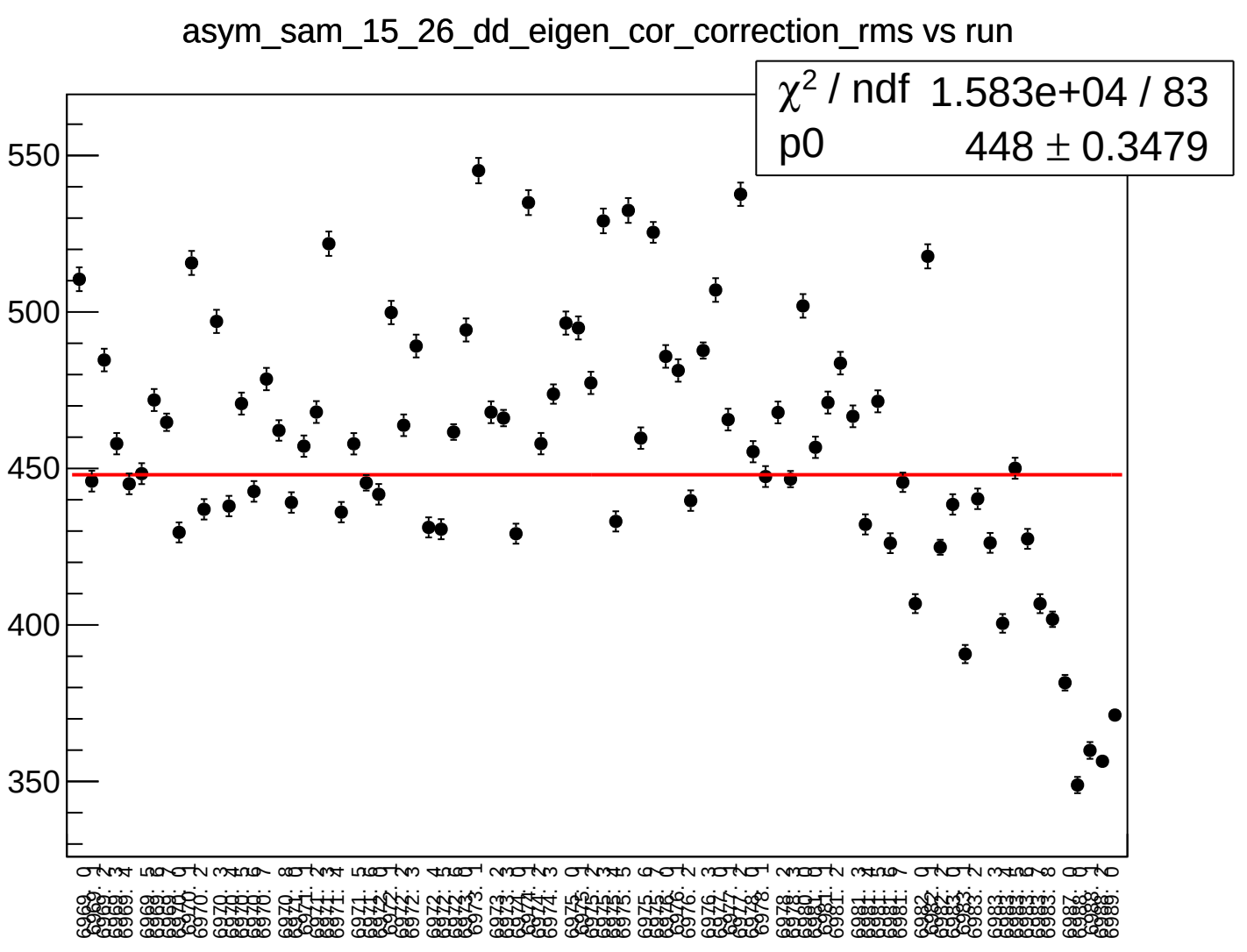

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 100.3 / 83
p0 −812.2 ± 492.1
pull
Entries 84
Mean −163.6
Std Dev 0
pull1D
Entries 84
Mean −0.03236
Std Dev 1.092

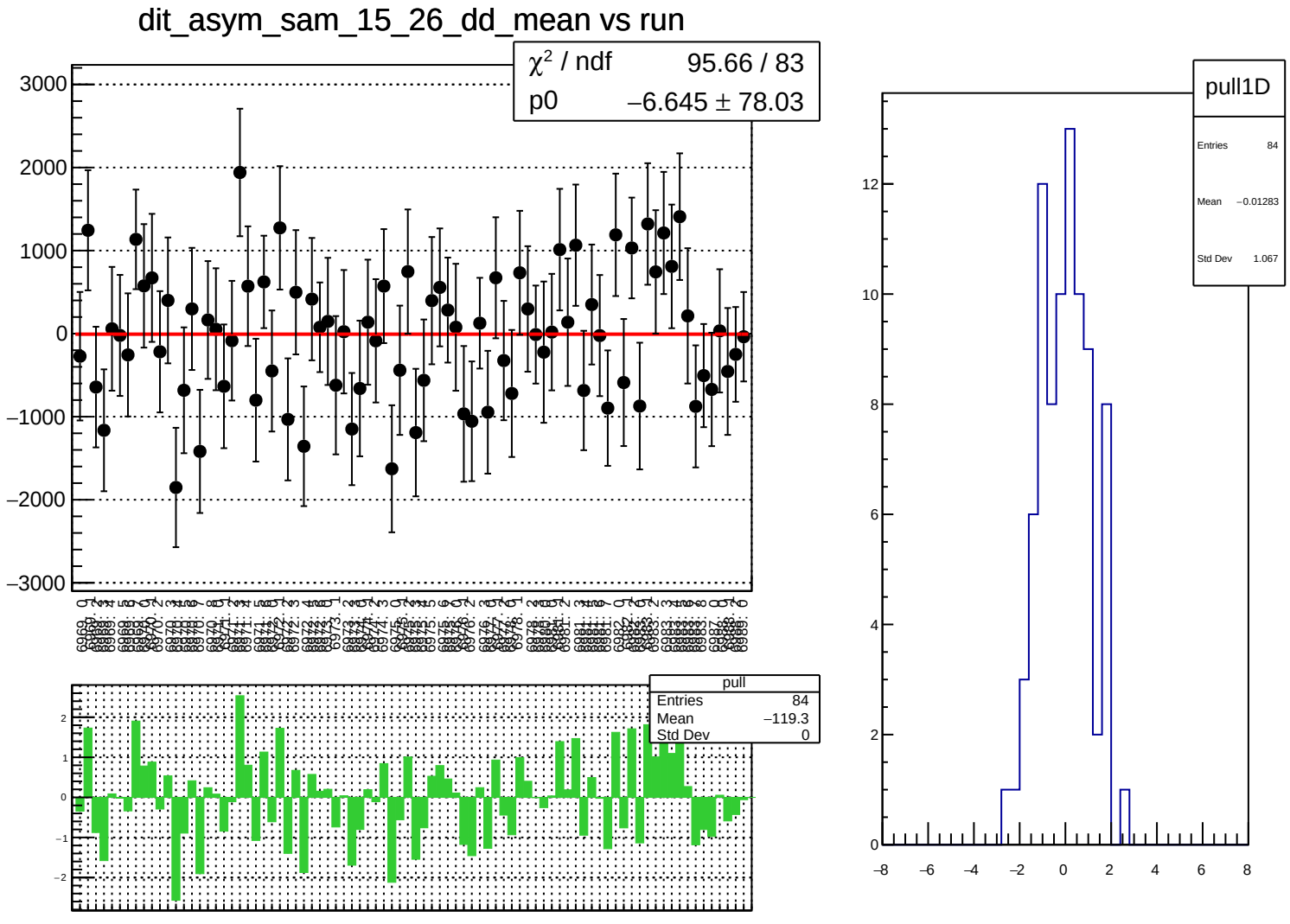

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.583e+04 / 83
p0 448 ± 0.3479
550
500
450
400
350

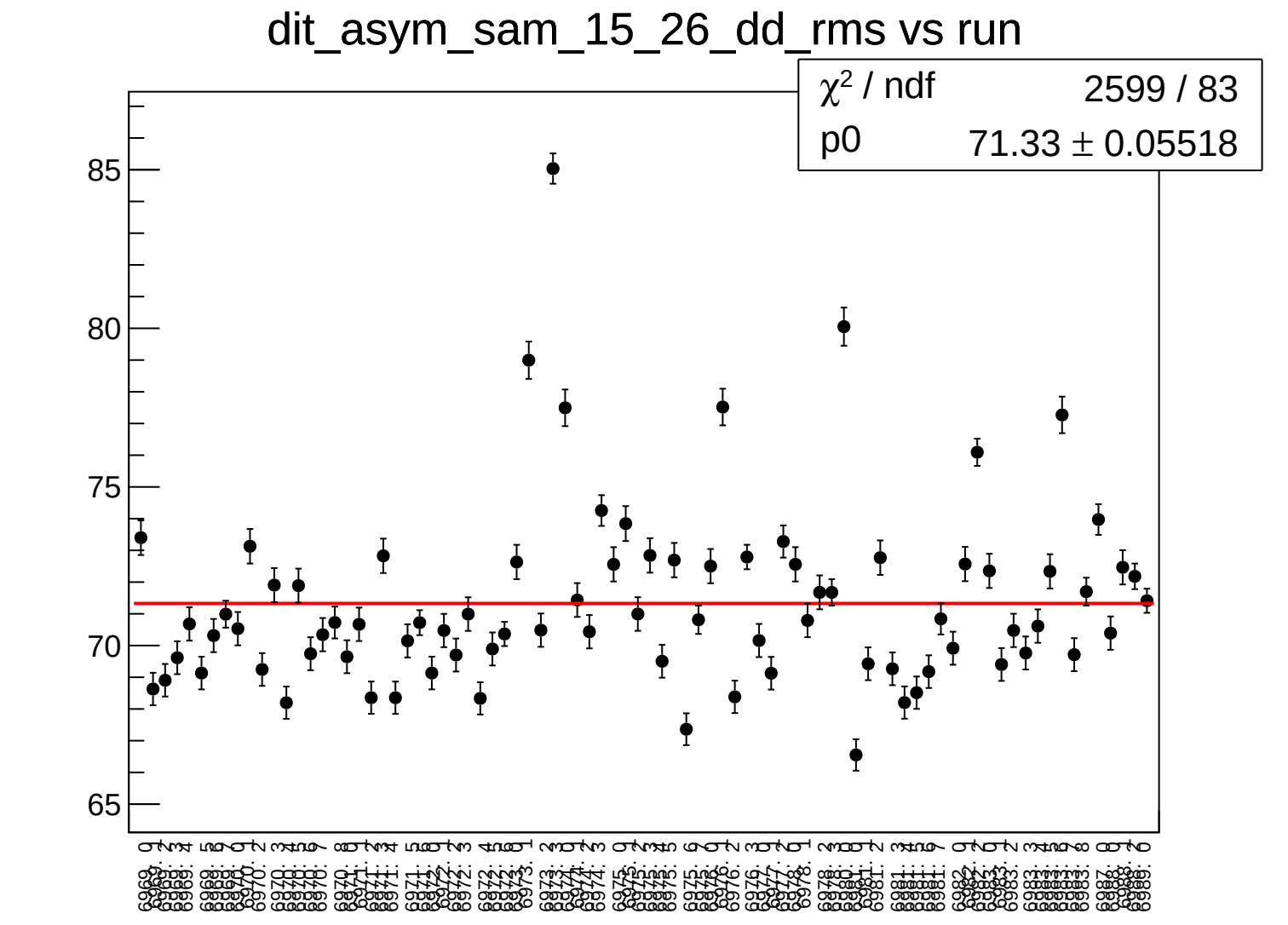

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 103 / 83
p0 63.21 ± 67.13
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −98.89
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.01533
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

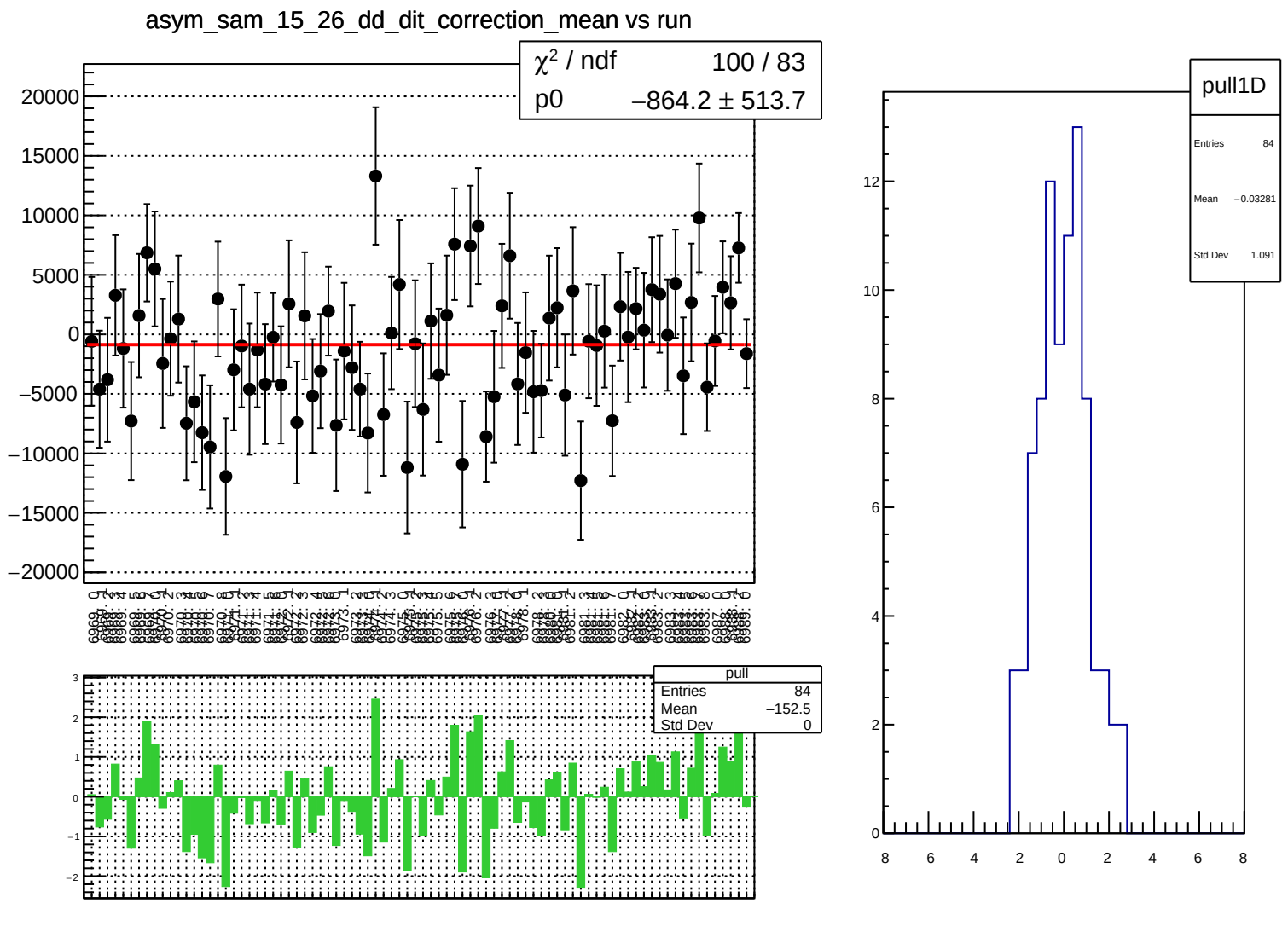

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 4732 / 83
p0 61.32 ± 0.04747
75
70
65
60
55

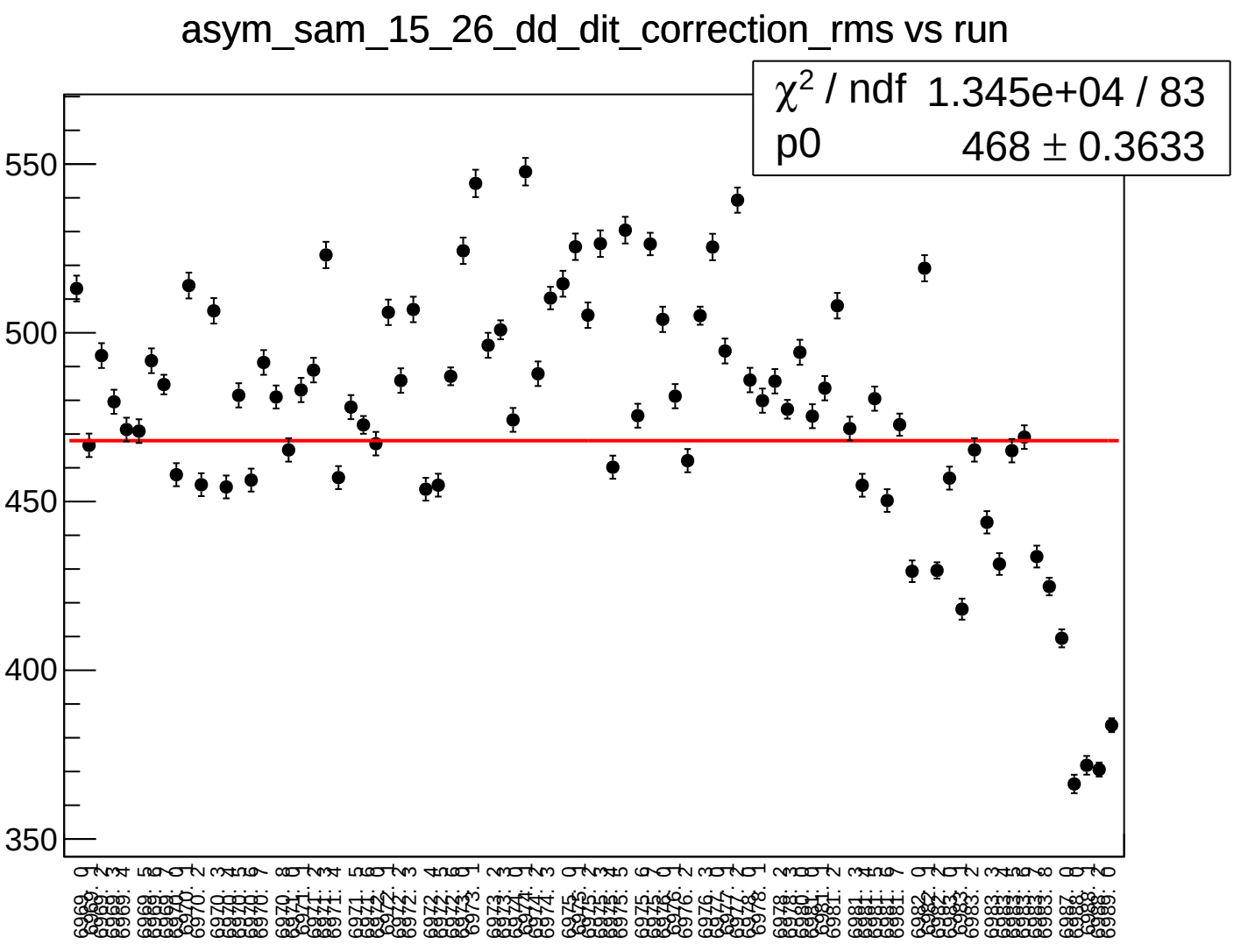

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.3 / 83
p0 −812.2 ± 492.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −163.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.03236
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

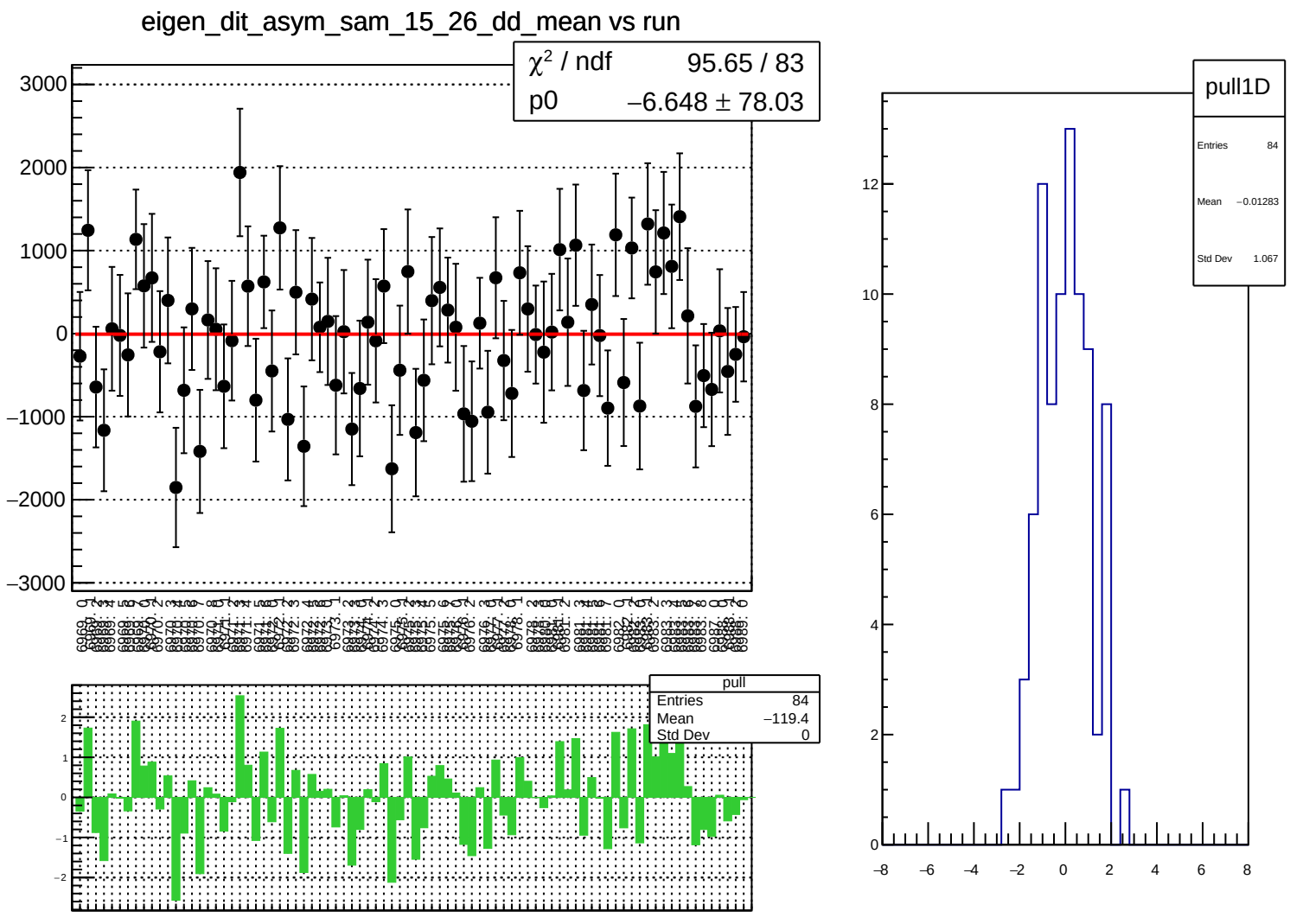

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.583e+04 / 83
p0 448 ± 0.3479
550
500
450
400
350

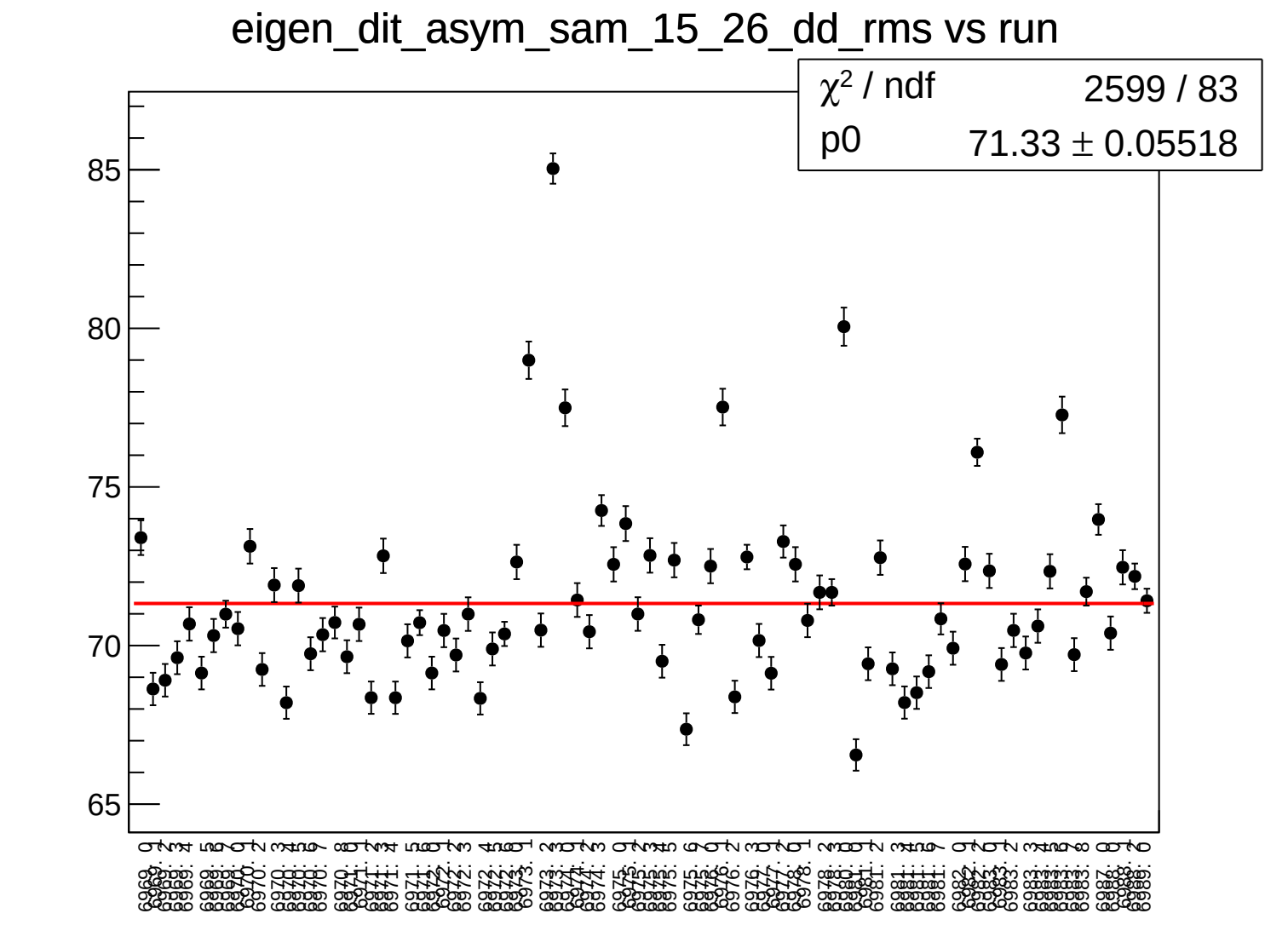

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 95.66 / 83
p0 −6.645 ± 78.03
pull
Entries 84
Mean −119.3
Std Dev 0
pull1D
Entries 84
Mean −0.01283
Std Dev 1.067

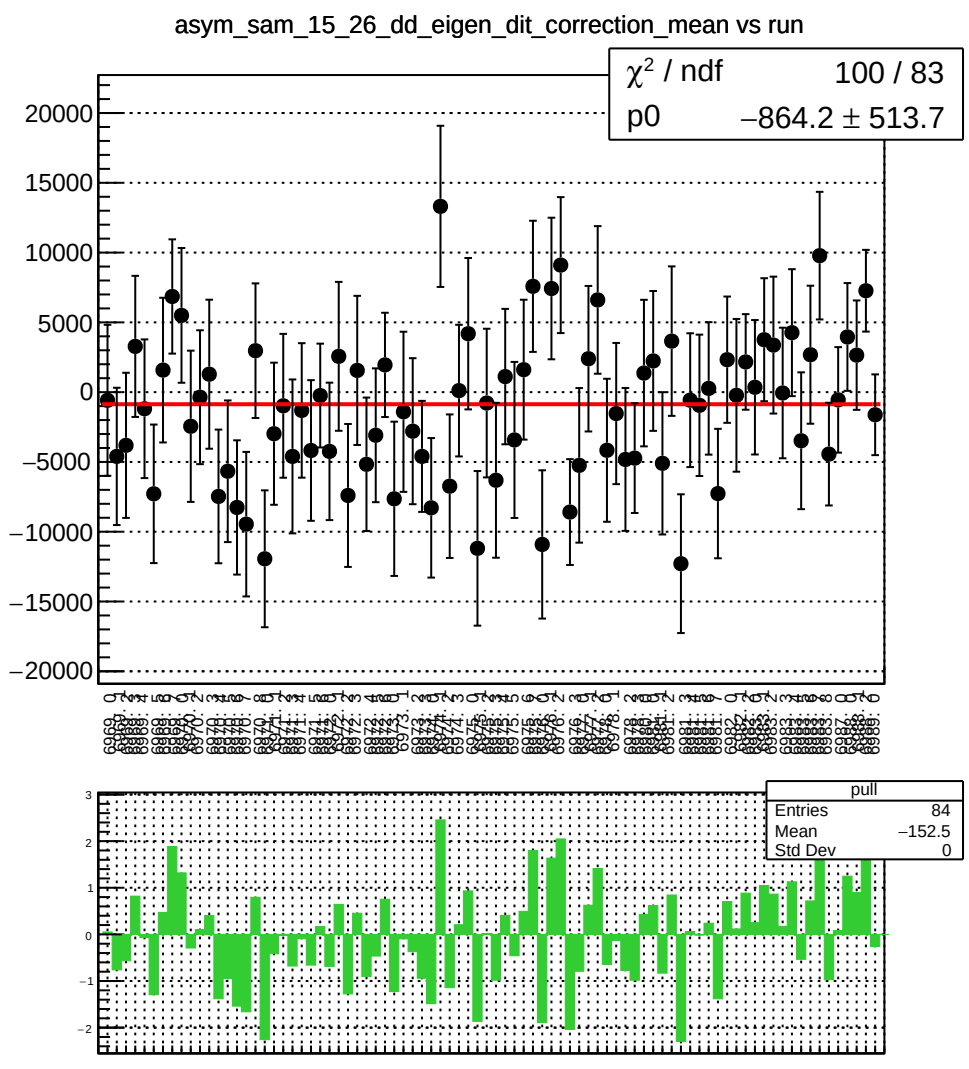

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2599 / 83
p0 71.33 ± 0.05518
85
80
75
70
65

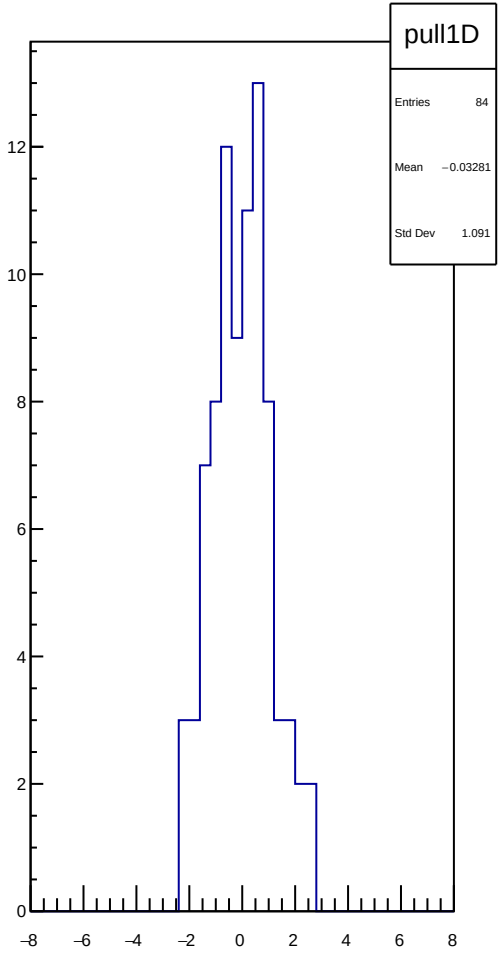

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 100 / 83
p0 −864.2 ± 513.7
pull
Entries 84
Mean −152.5
Std Dev 0
pull1D
Entries 84
Mean −0.03281
Std Dev 1.091

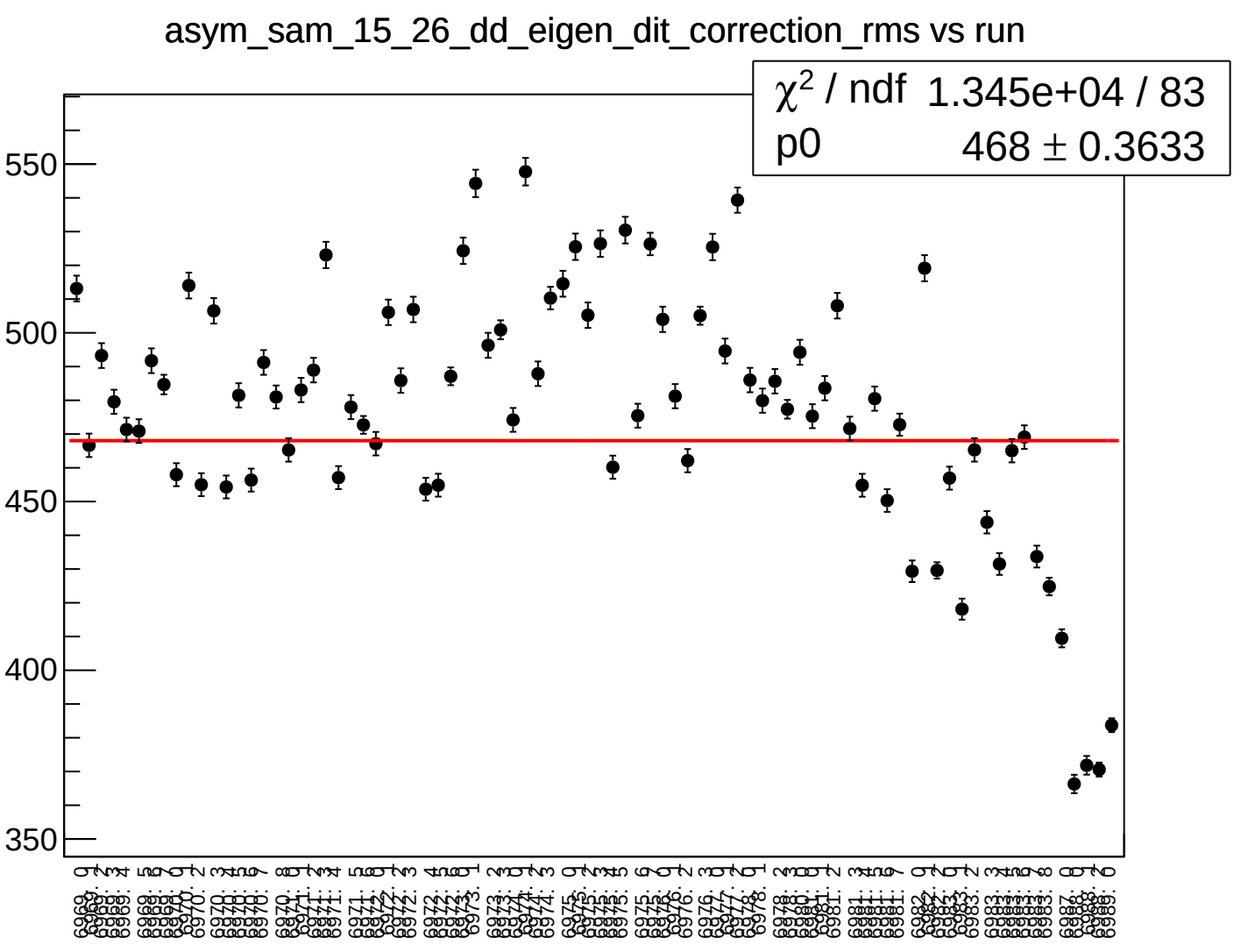

asym_sam_15_26_dd_dit_correction_rms vs run
χ^2 / ndf 1.345e+04 / 83
p0 468 ± 0.3633
550
500
450
400
350

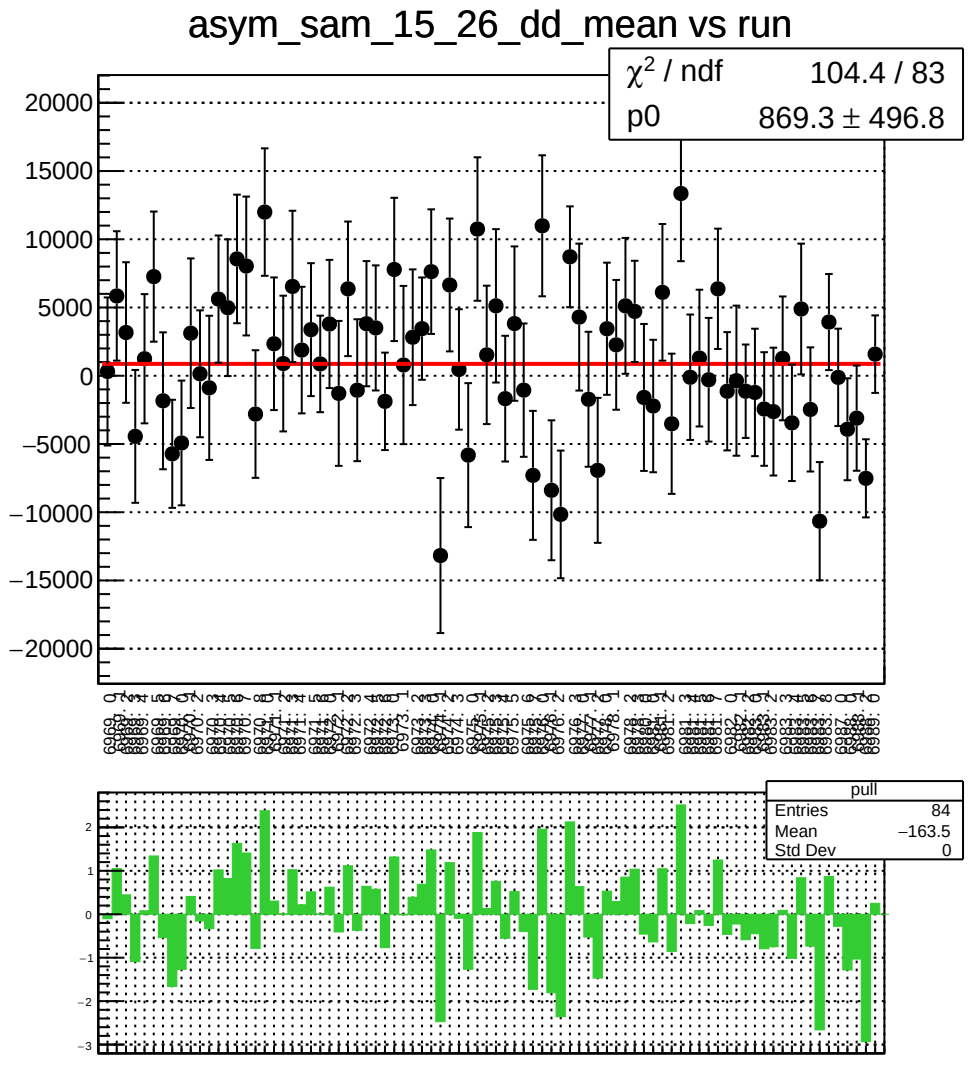

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 95.65 / 83
p0 −6.648 ± 78.03
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −119.4
Std Dev 0
pull1D
Entries 84
Mean −0.01283
Std Dev 1.067
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

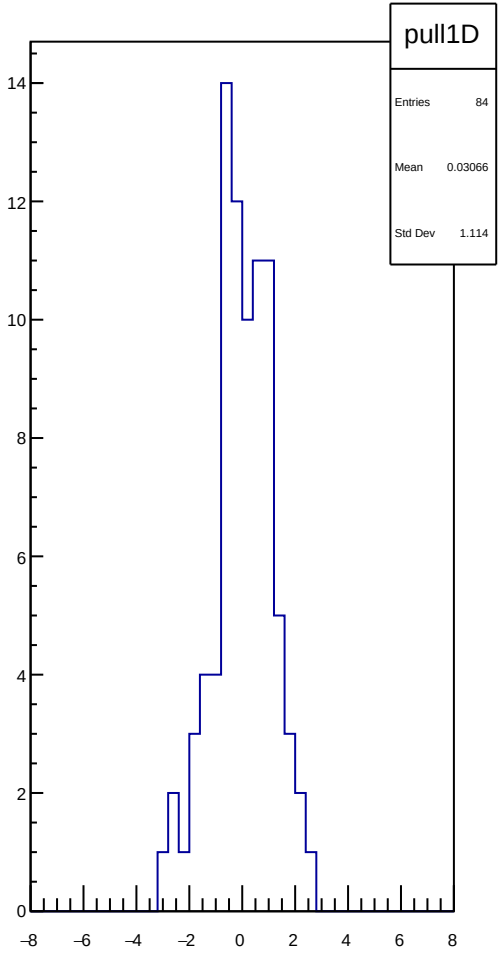

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2599 / 83
p0 71.33 ± 0.05518
85
80
75
70
65

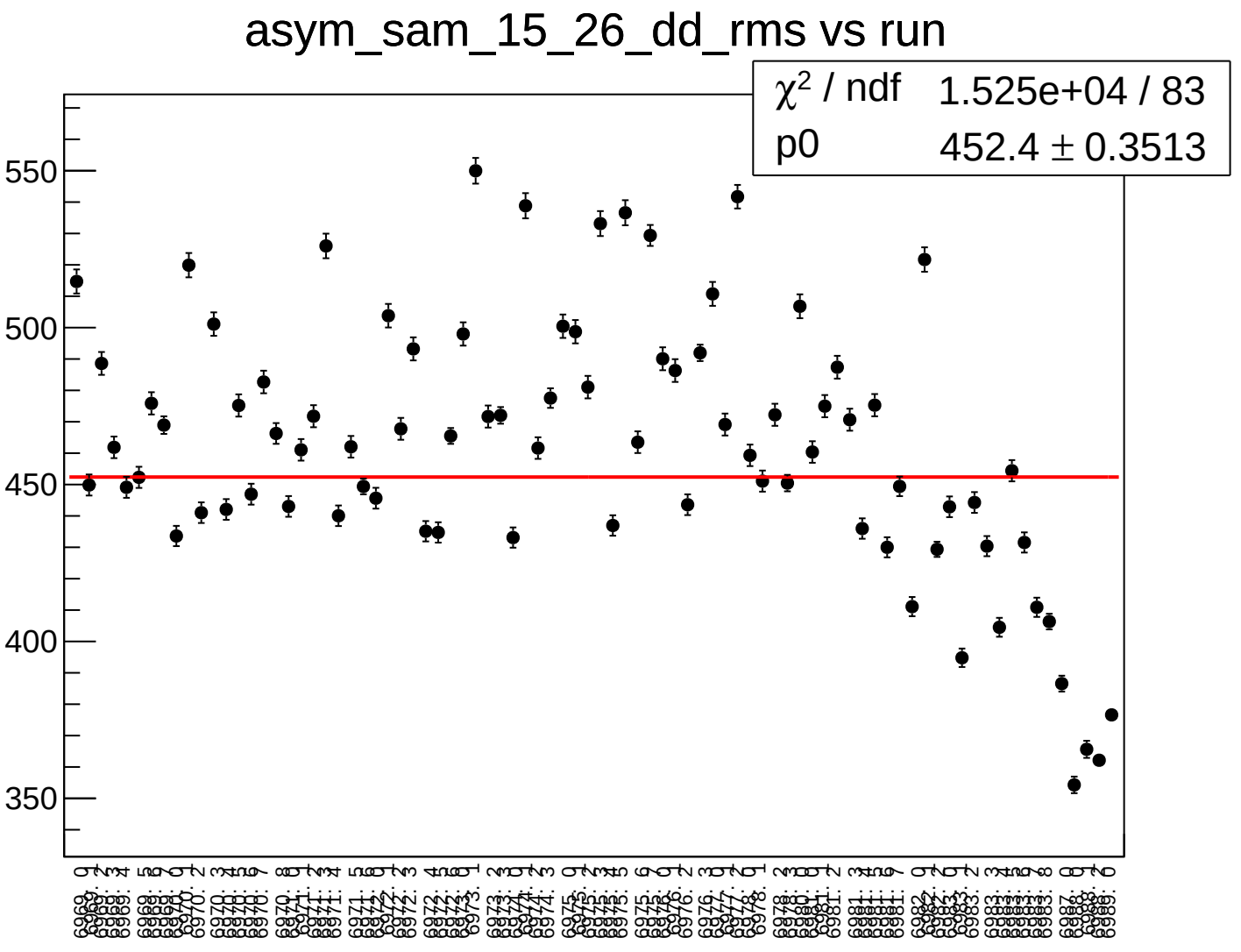

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 100 / 83
p0 −864.2 ± 513.7
pull
Entries 84
Mean −152.5
Std Dev 0

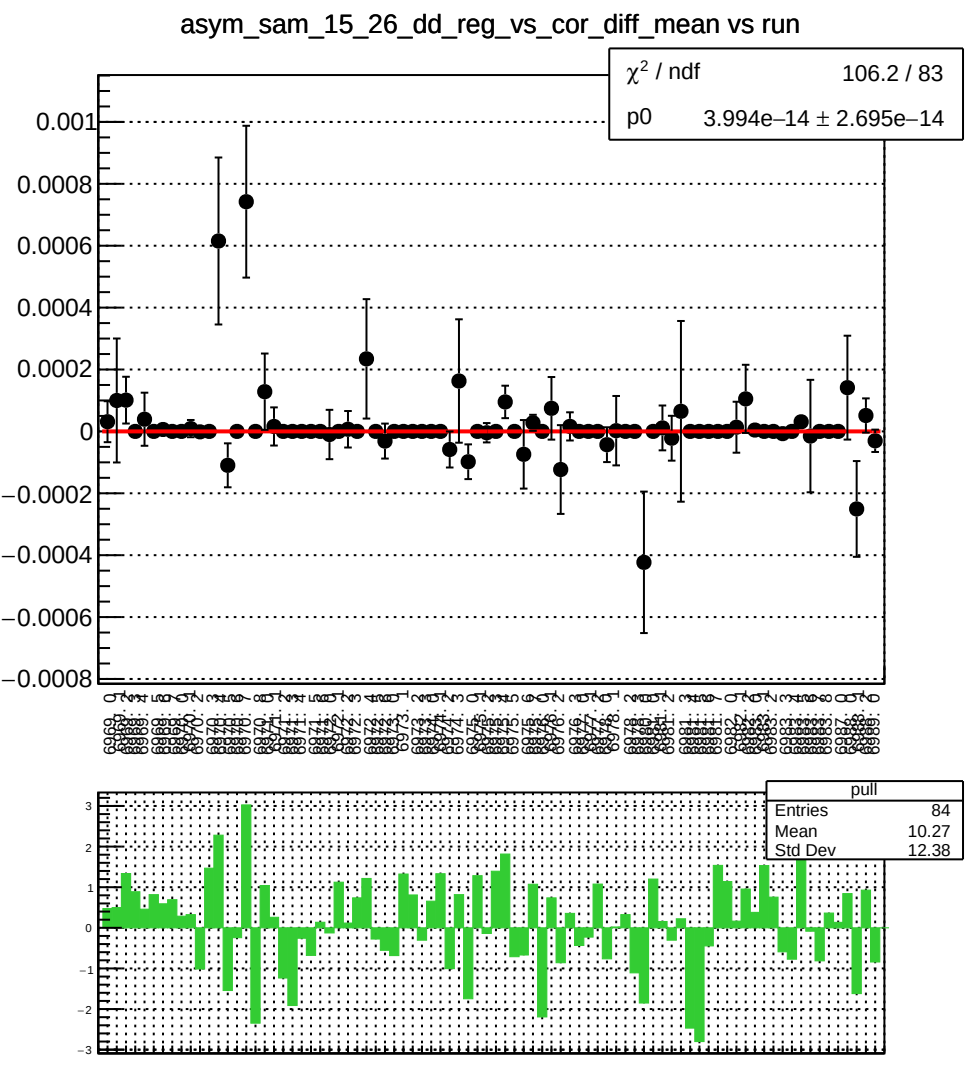

pull1D
Entries 84
Mean −0.03281
Std Dev 1.091

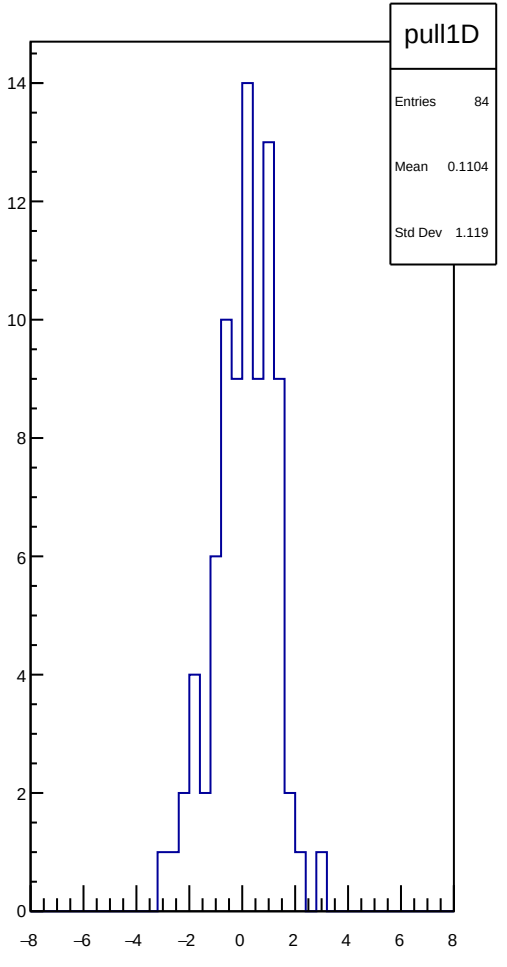

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.345e+04 / 83
p0 468 ± 0.3633
550
500
450
400
350

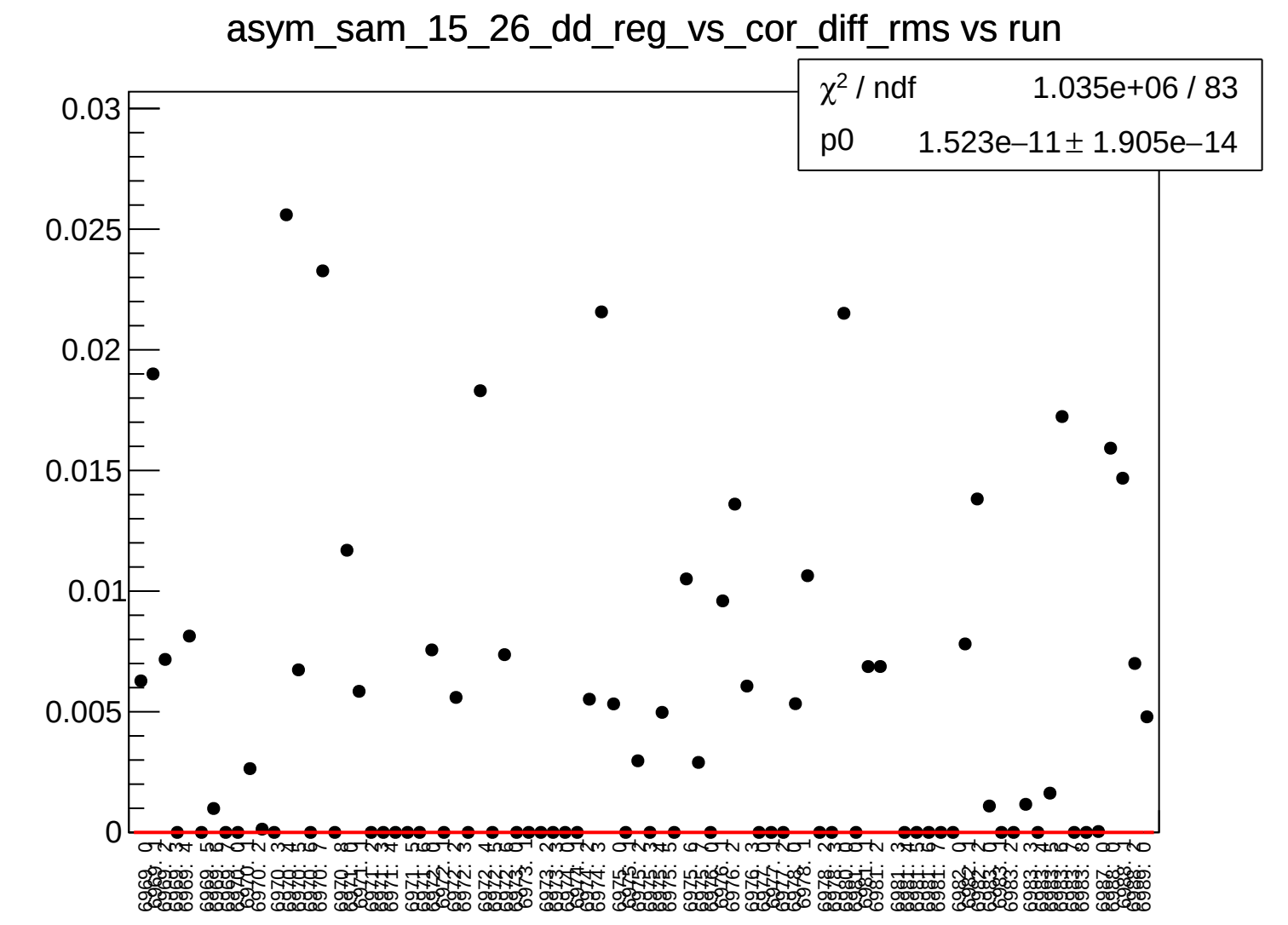

asym_sam_15_26_dd_mean vs run
χ² / ndf 104.4 / 83
p0 869.3 ± 496.8
pull
Entries 84
Mean −163.5
Std Dev 0

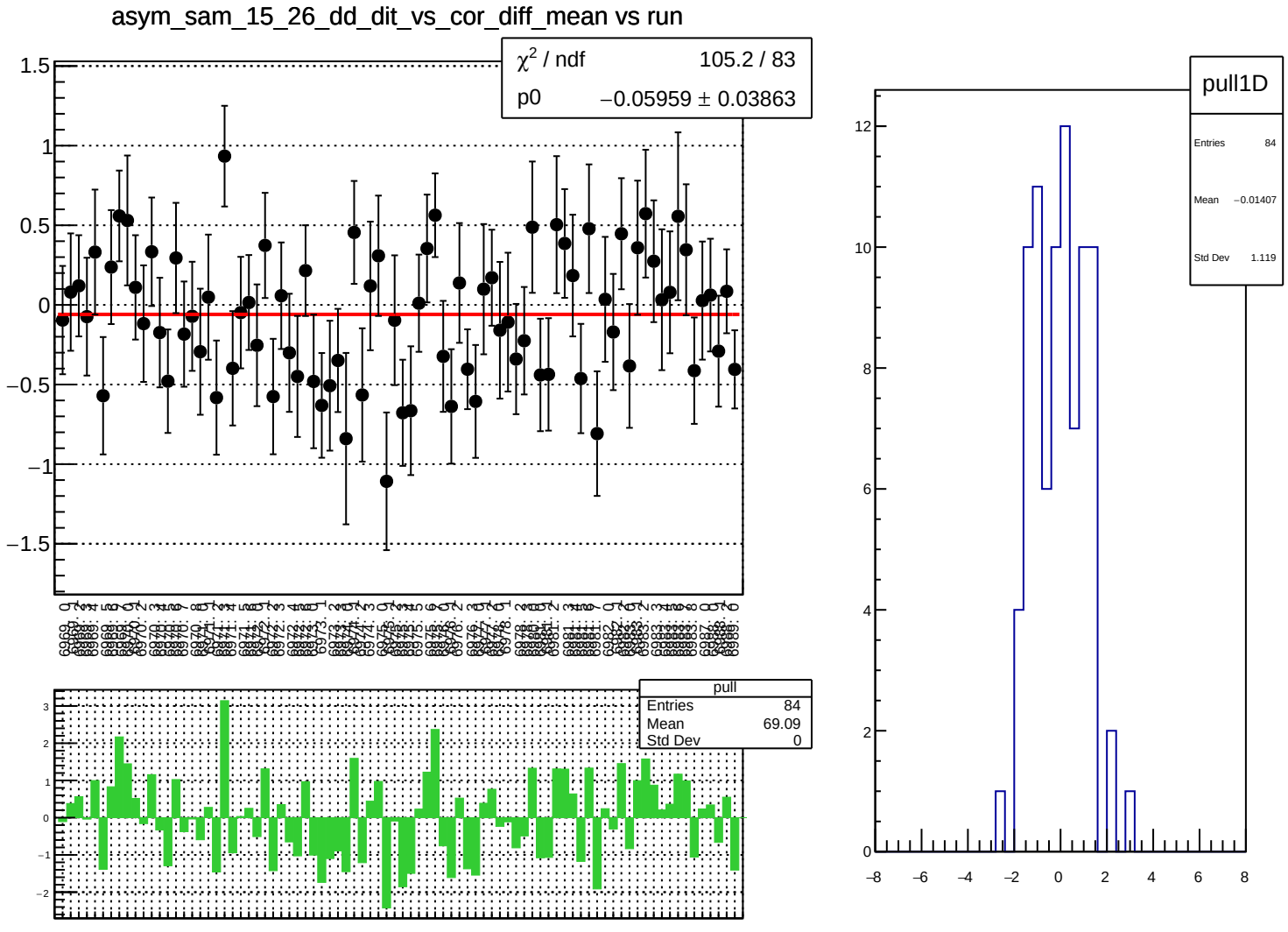

pull1D
Entries 84
Mean 0.03066
Std Dev 1.114

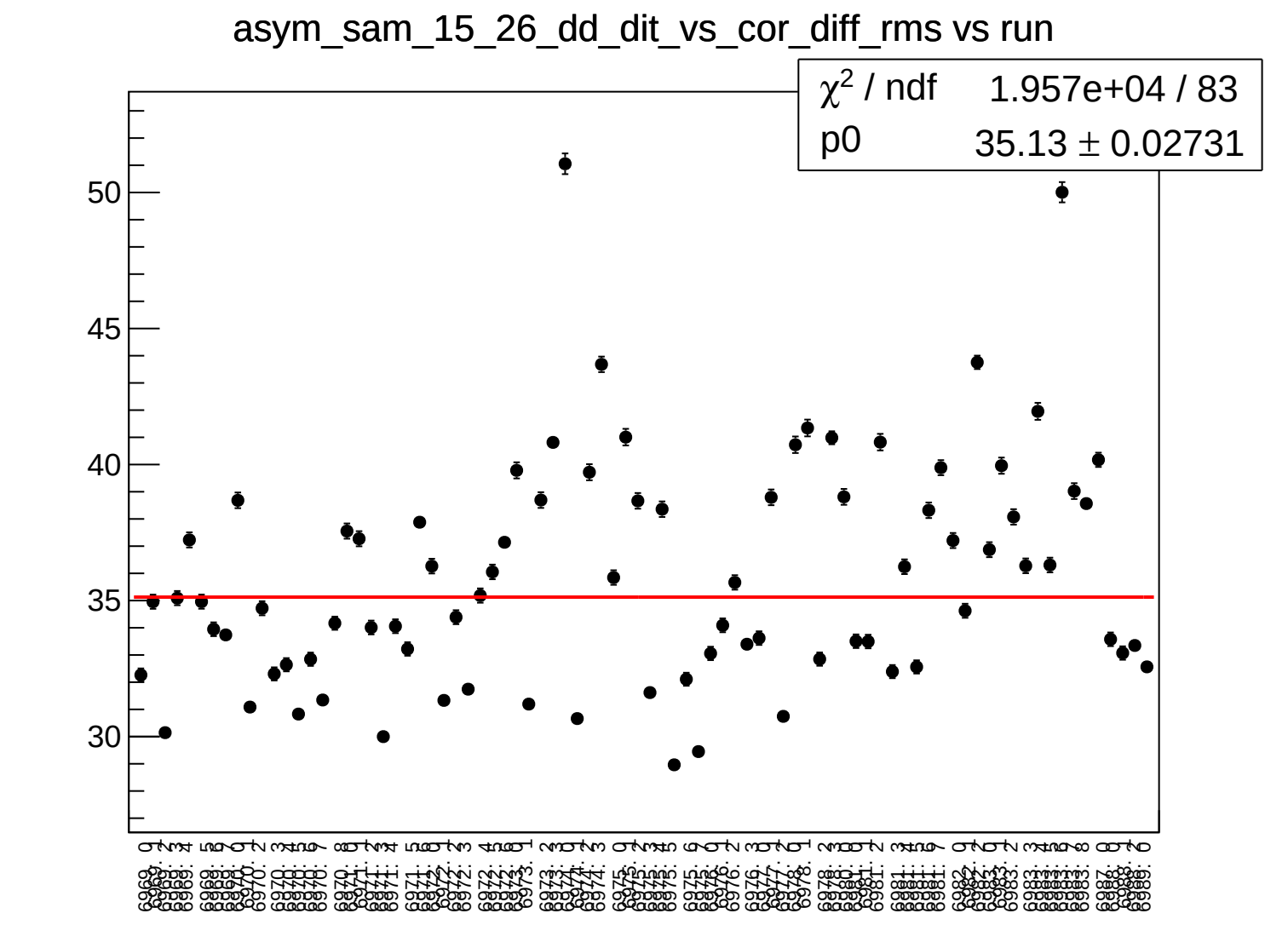

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.525e+04 / 83
p0 452.4 ± 0.3513
550
500
450
400
350

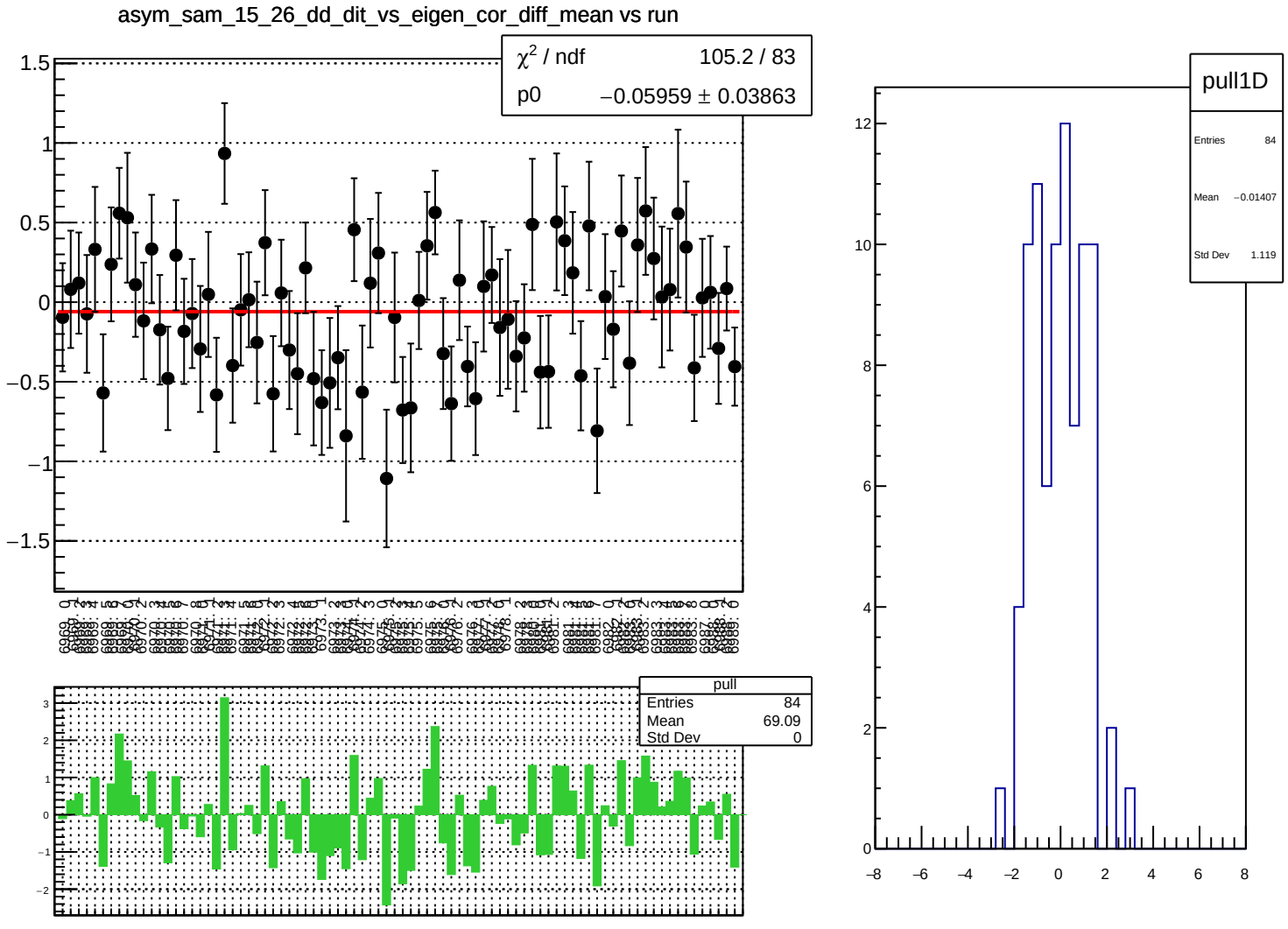

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 83
p0 3.994e−14 ± 2.695e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 84
Mean 10.27
Std Dev 12.38
3
2
1
0
−1
−2
−3

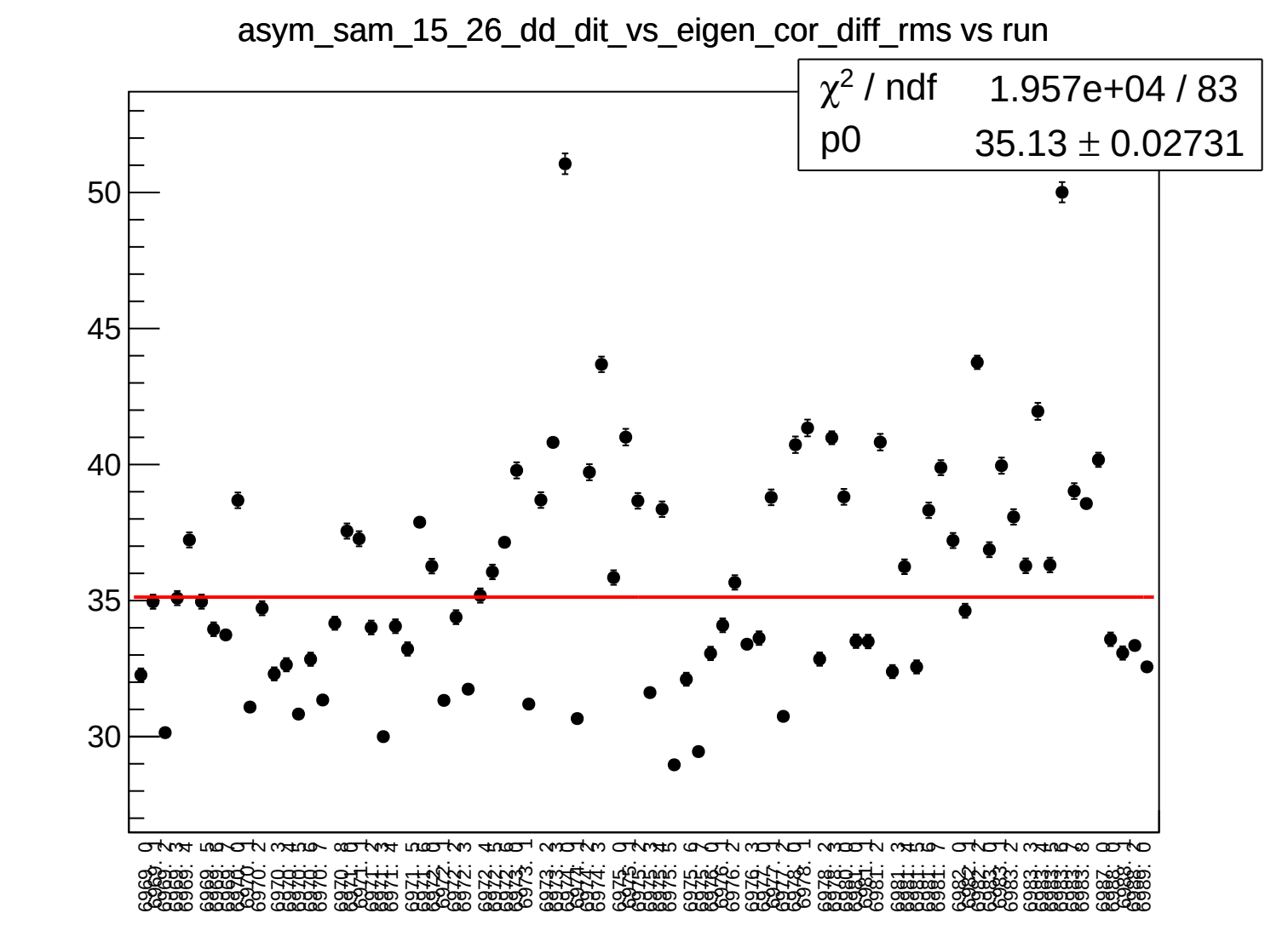

pull1D
Entries 84
Mean 0.1104
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

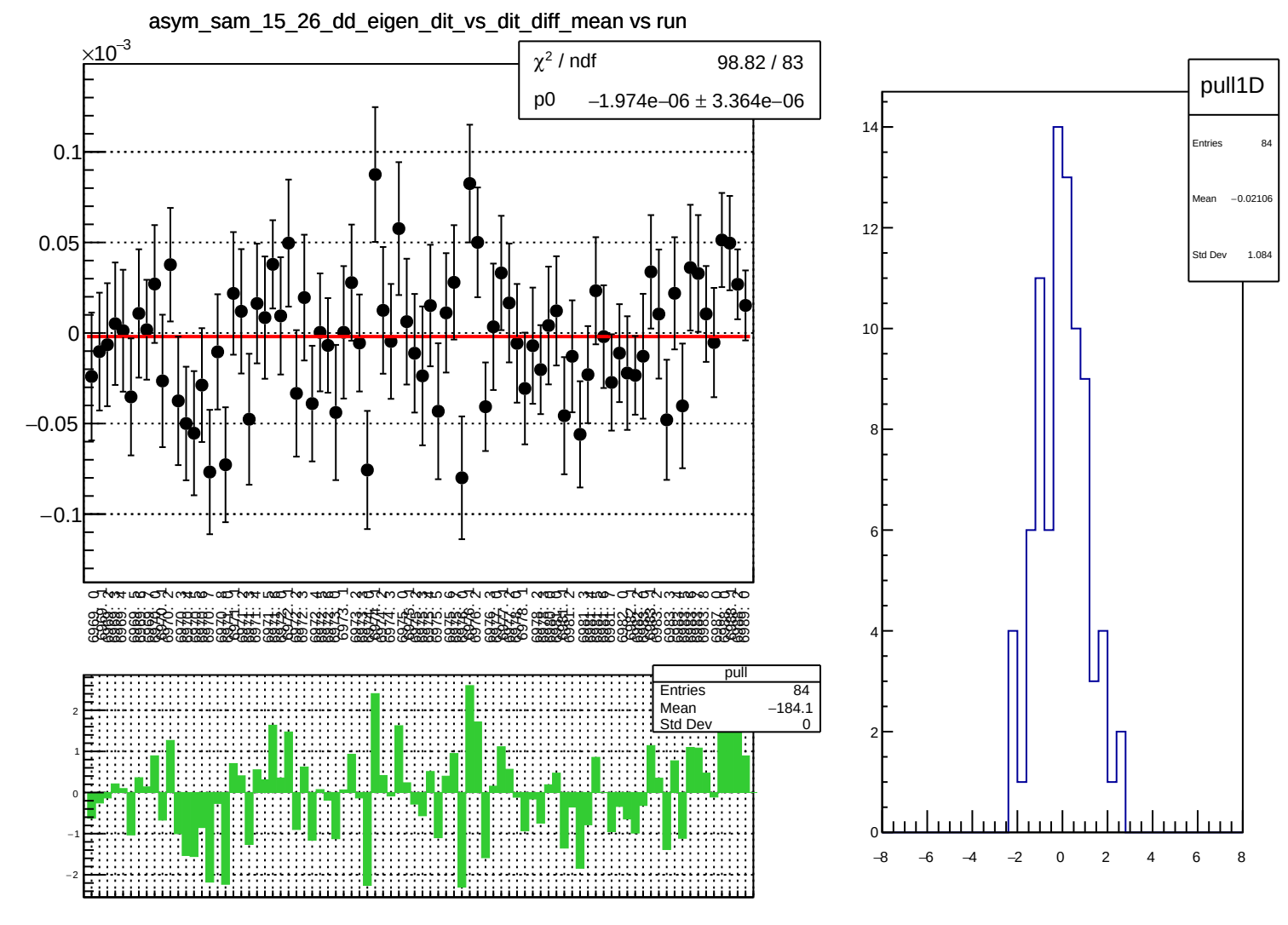

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.035e+06 / 83
p0 1.523e−11 ± 1.905e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

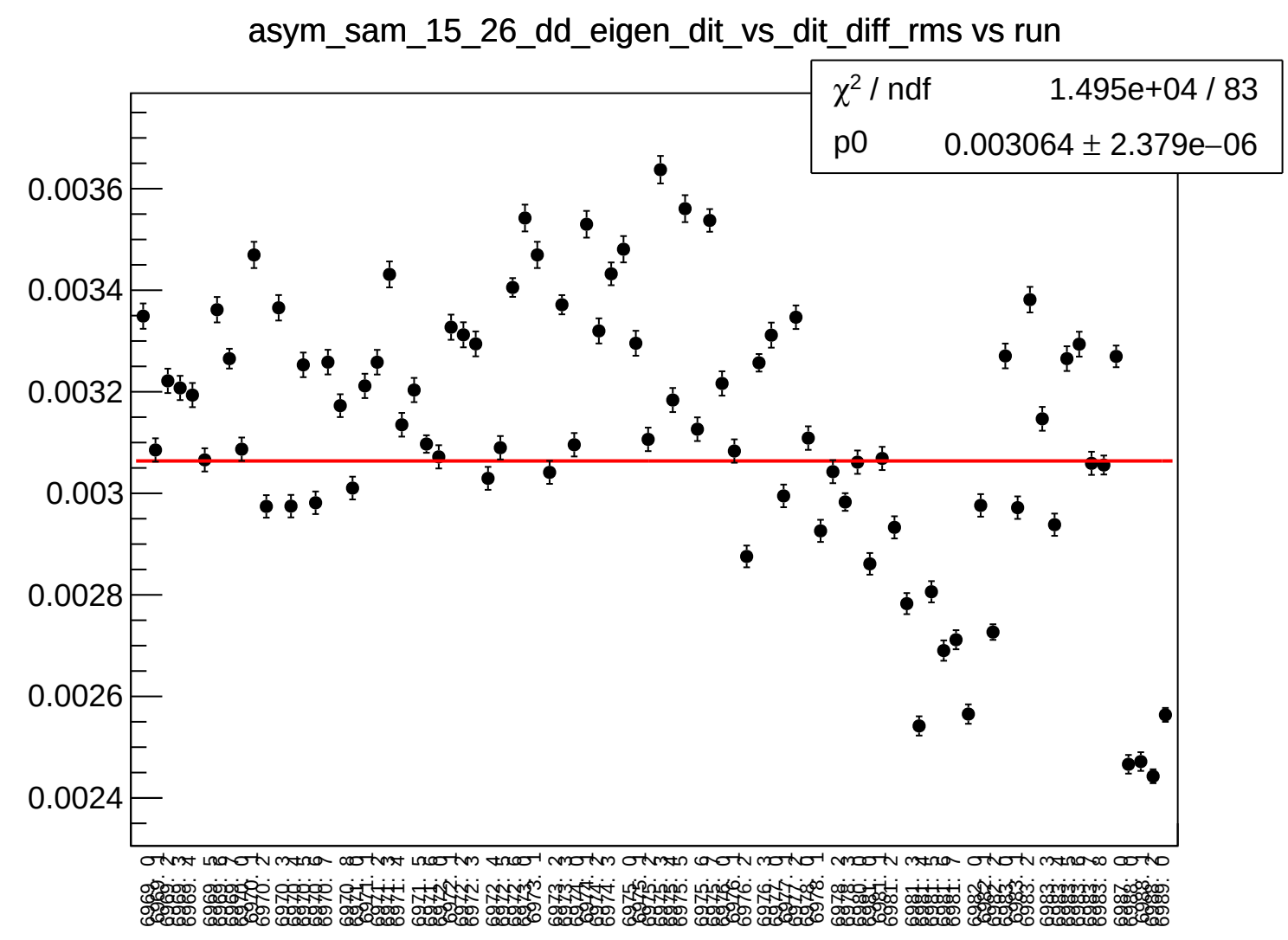

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 83
p0 −0.05959 ± 0.03863
pull
Entries 84
Mean 69.09
Std Dev 0
pull1D
Entries 84
Mean −0.01407
Std Dev 1.119

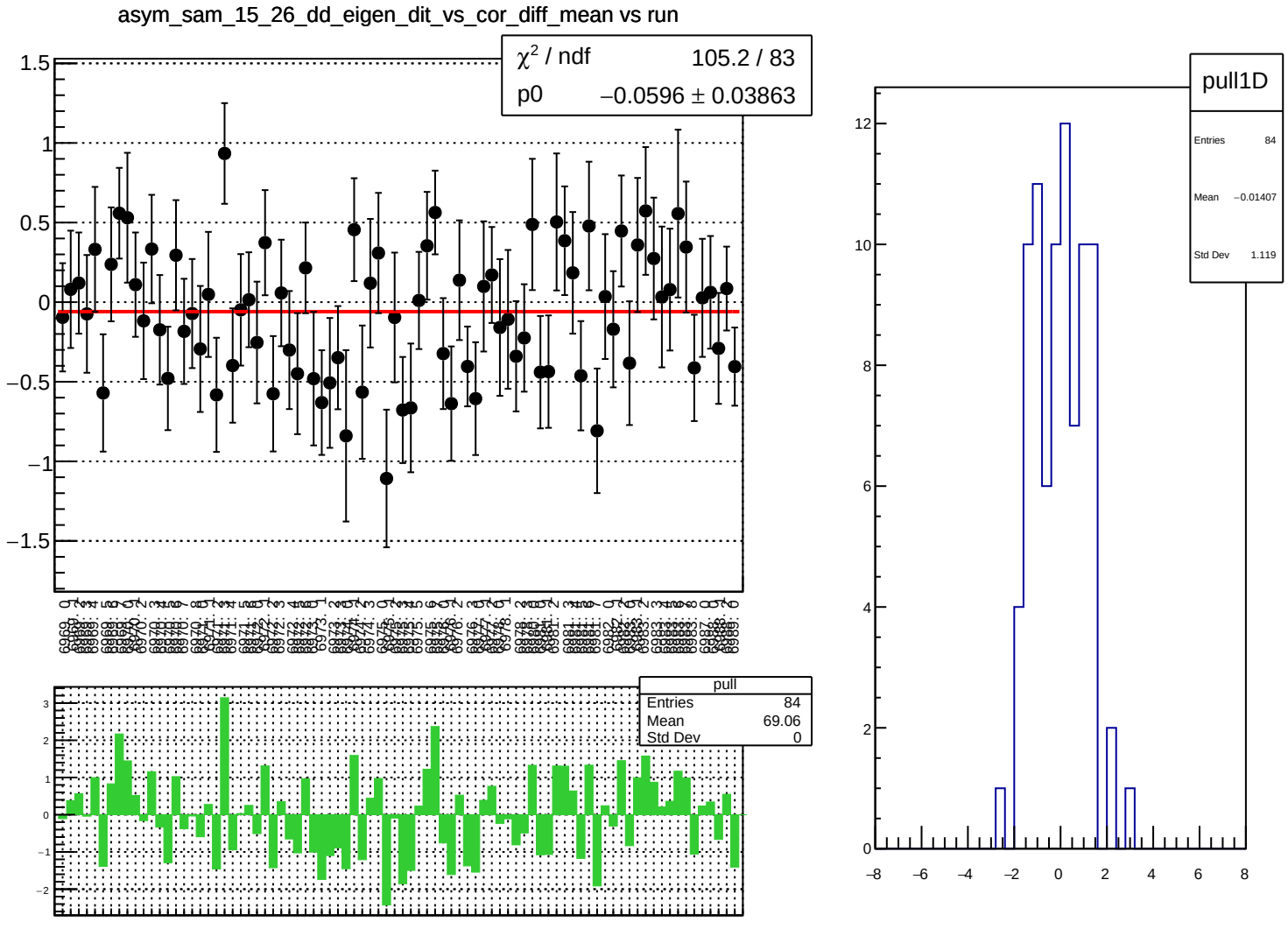

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.957e+04 / 83
p0 35.13 ± 0.02731
50
45
40
35
30

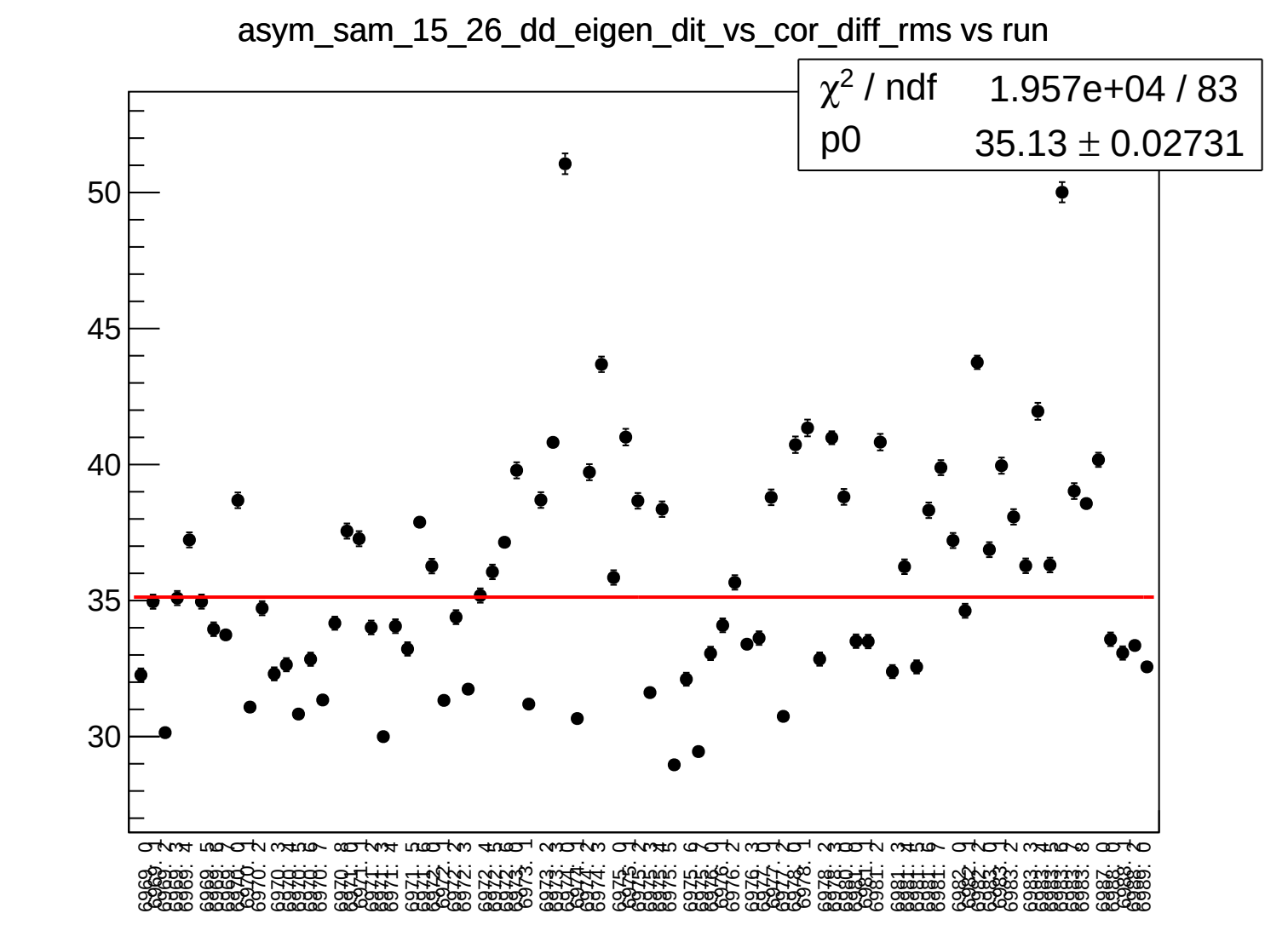

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 83
p0 −0.05959 ± 0.03863
pull
Entries 84
Mean 69.09
Std Dev 0
pull1D
Entries 84
Mean −0.01407
Std Dev 1.119

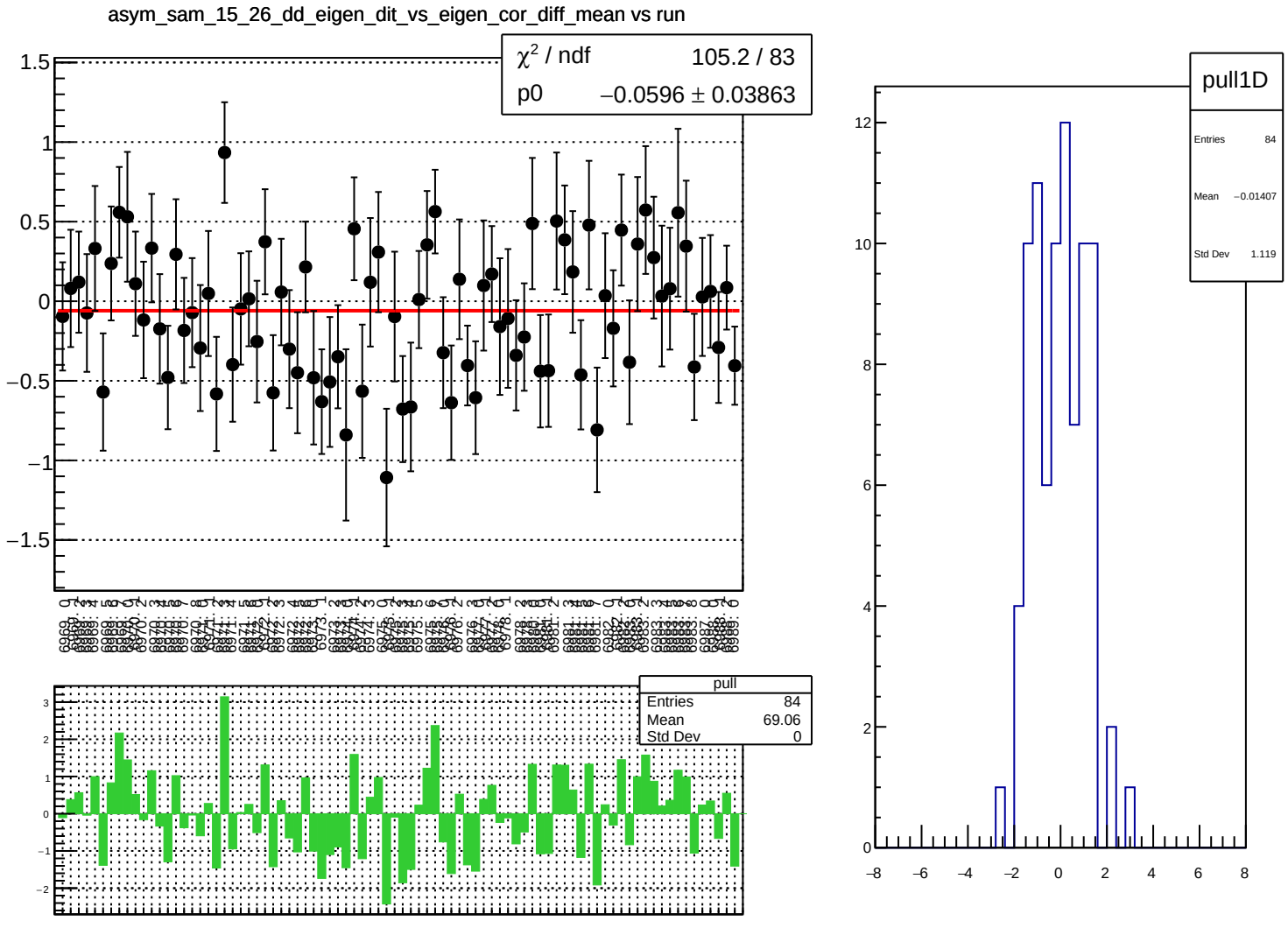

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.957e+04 / 83
p0 35.13 ± 0.02731
50
45
40
35
30

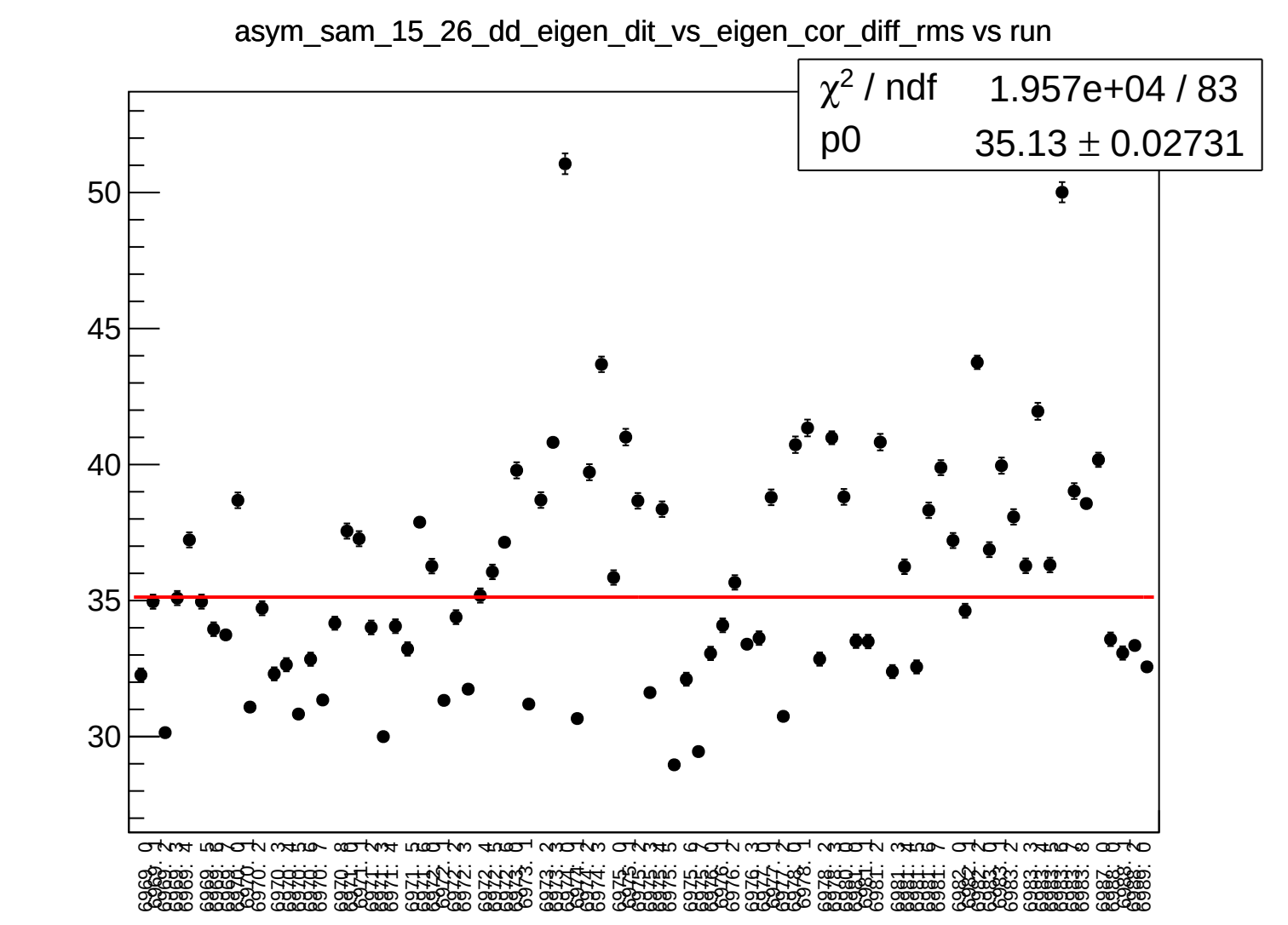

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.82 / 83
p0 −1.974e−06 ± 3.364e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean −184.1
Std Dev 0
pull1D
Entries 84
Mean −0.02106
Std Dev 1.084

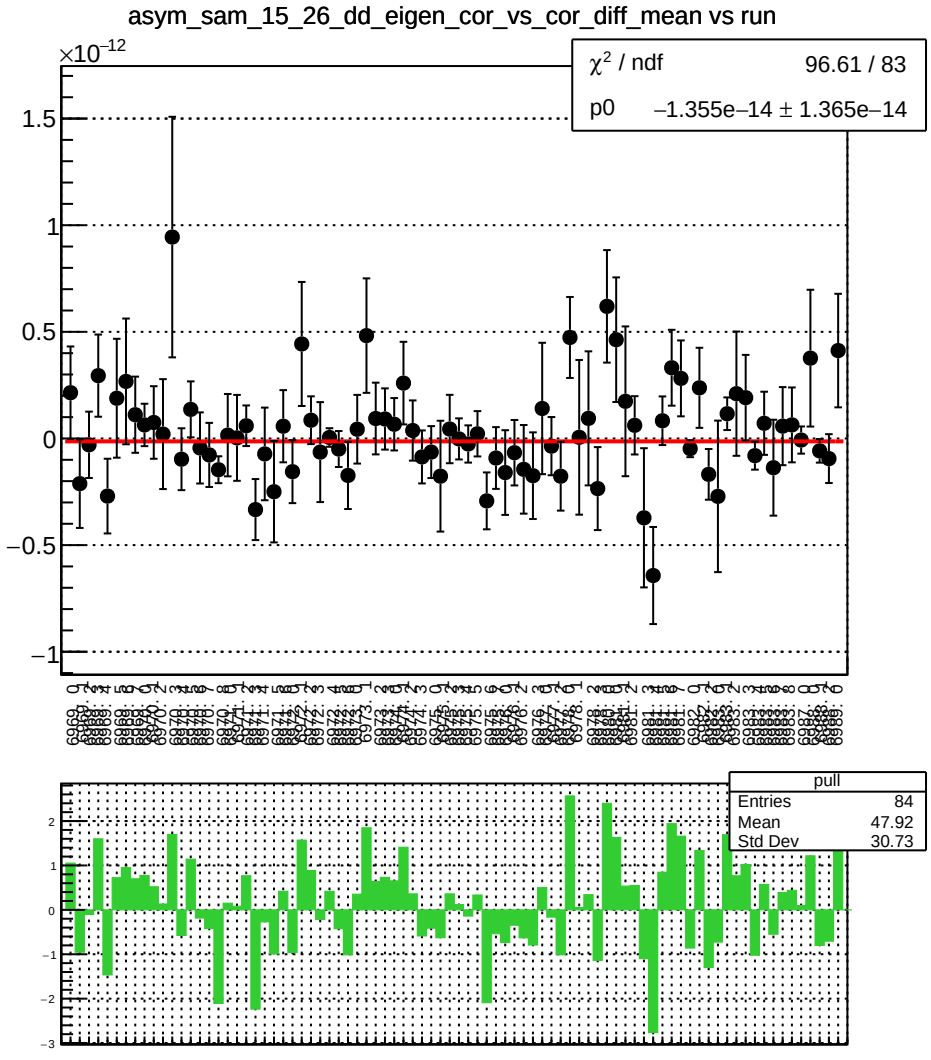

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.495e+04 / 83
p0 0.003064 ± 2.379e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

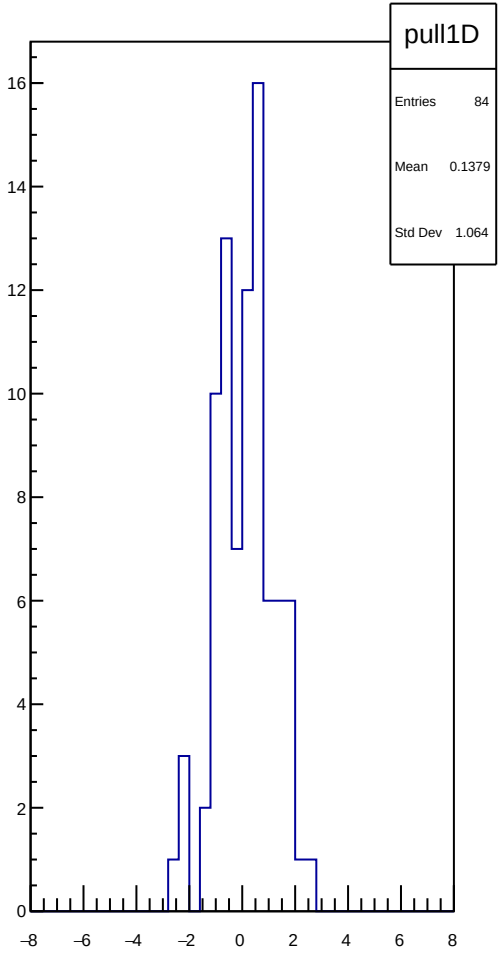

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 83
p0 −0.0596 ± 0.03863
pull
Entries 84
Mean 69.06
Std Dev 0
pull1D
Entries 84
Mean −0.01407
Std Dev 1.119

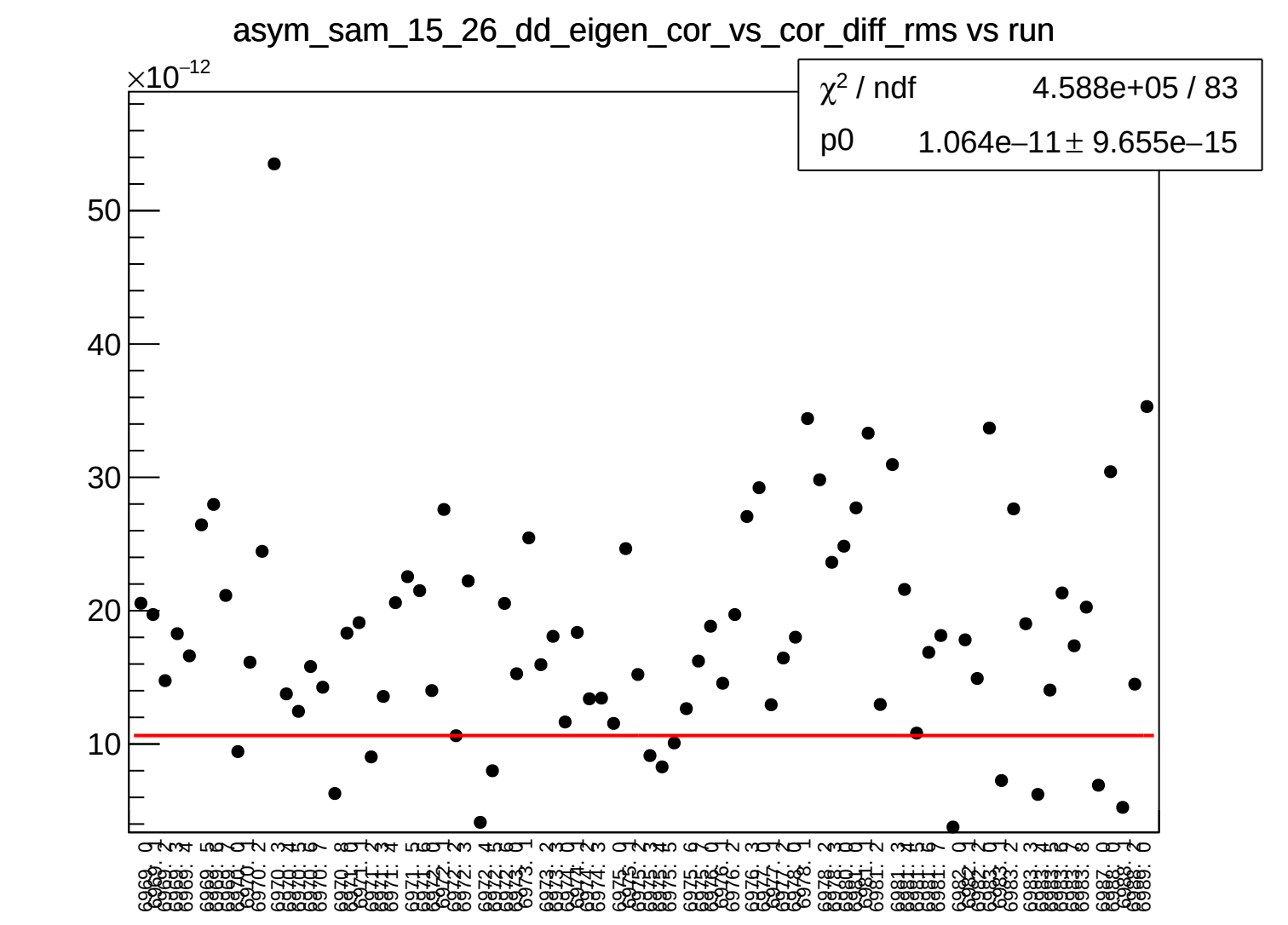

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.957e+04 / 83
p0 35.13 ± 0.02731
50
45
40
35
30

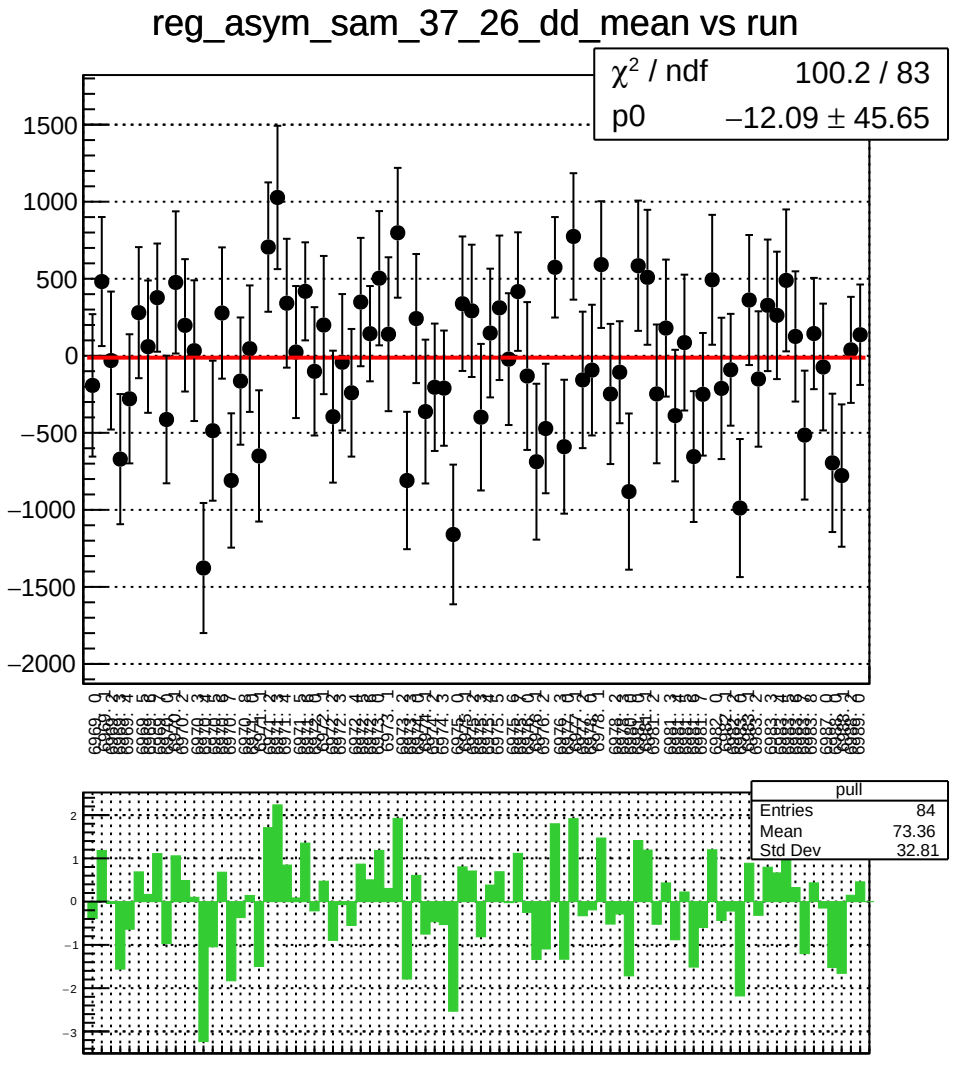

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 83
p0 −0.0596 ± 0.03863
pull
Entries 84
Mean 69.06
Std Dev 0
pull1D
Entries 84
Mean −0.01407
Std Dev 1.119

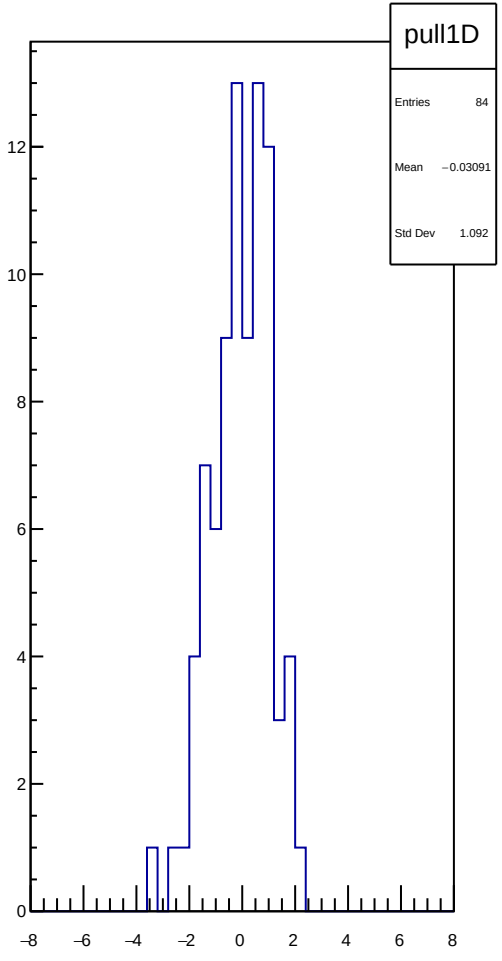

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.957e+04 / 83
p0 35.13 ± 0.02731
50
45
40
35
30

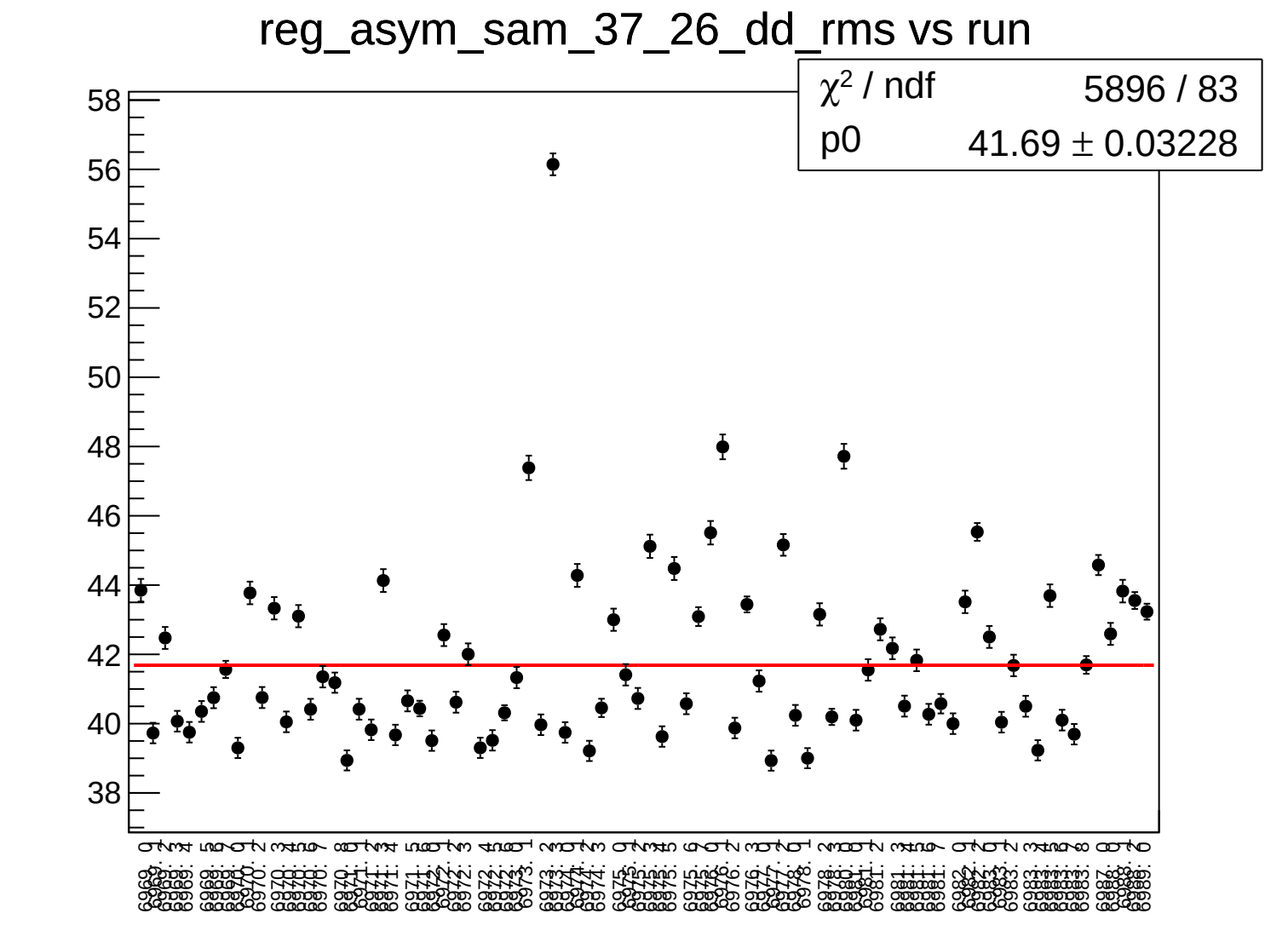

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.61 / 83
p0 −1.355e−14 ± 1.365e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 84
Mean 47.92
Std Dev 30.73
2
1
0
−1
−2
−3

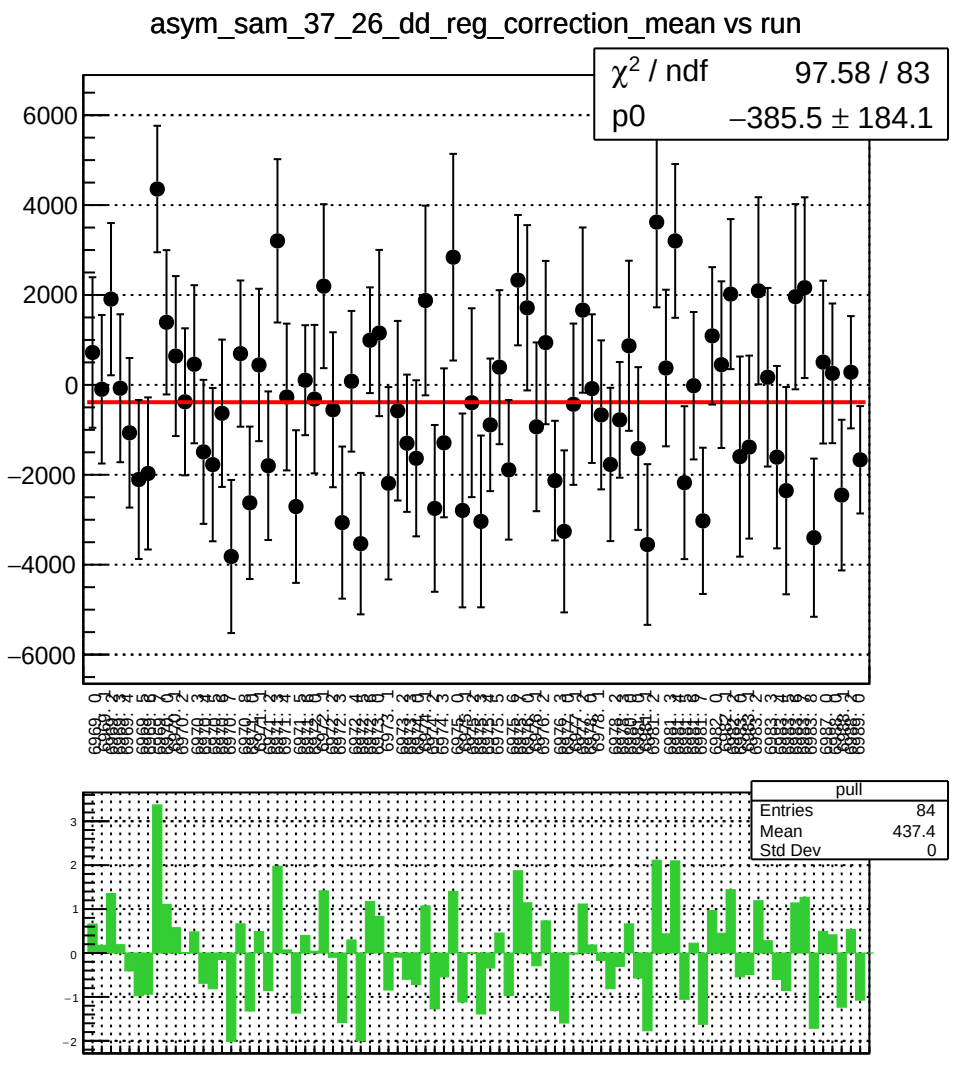

pull1D
Entries 84
Mean 0.1379
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

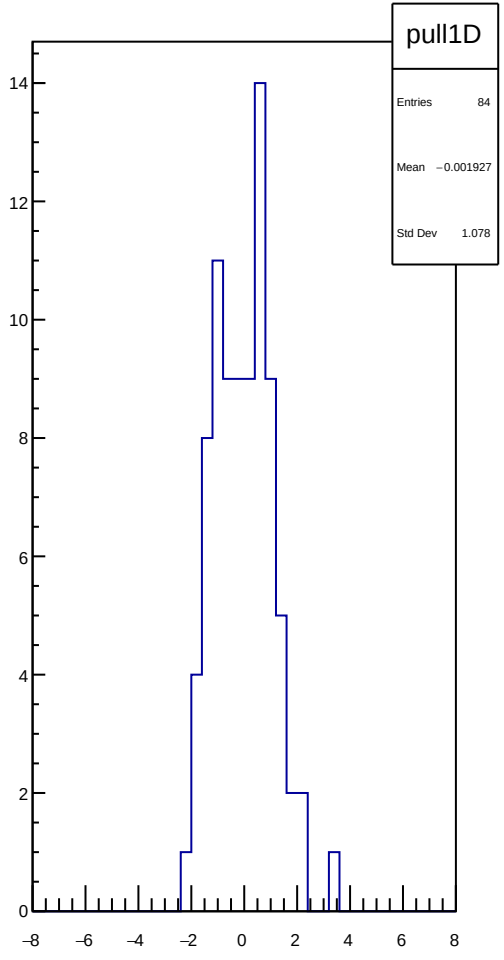

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.588e+05 / 83
p0 1.064e−11 ± 9.655e−15
50
40
30
20
10

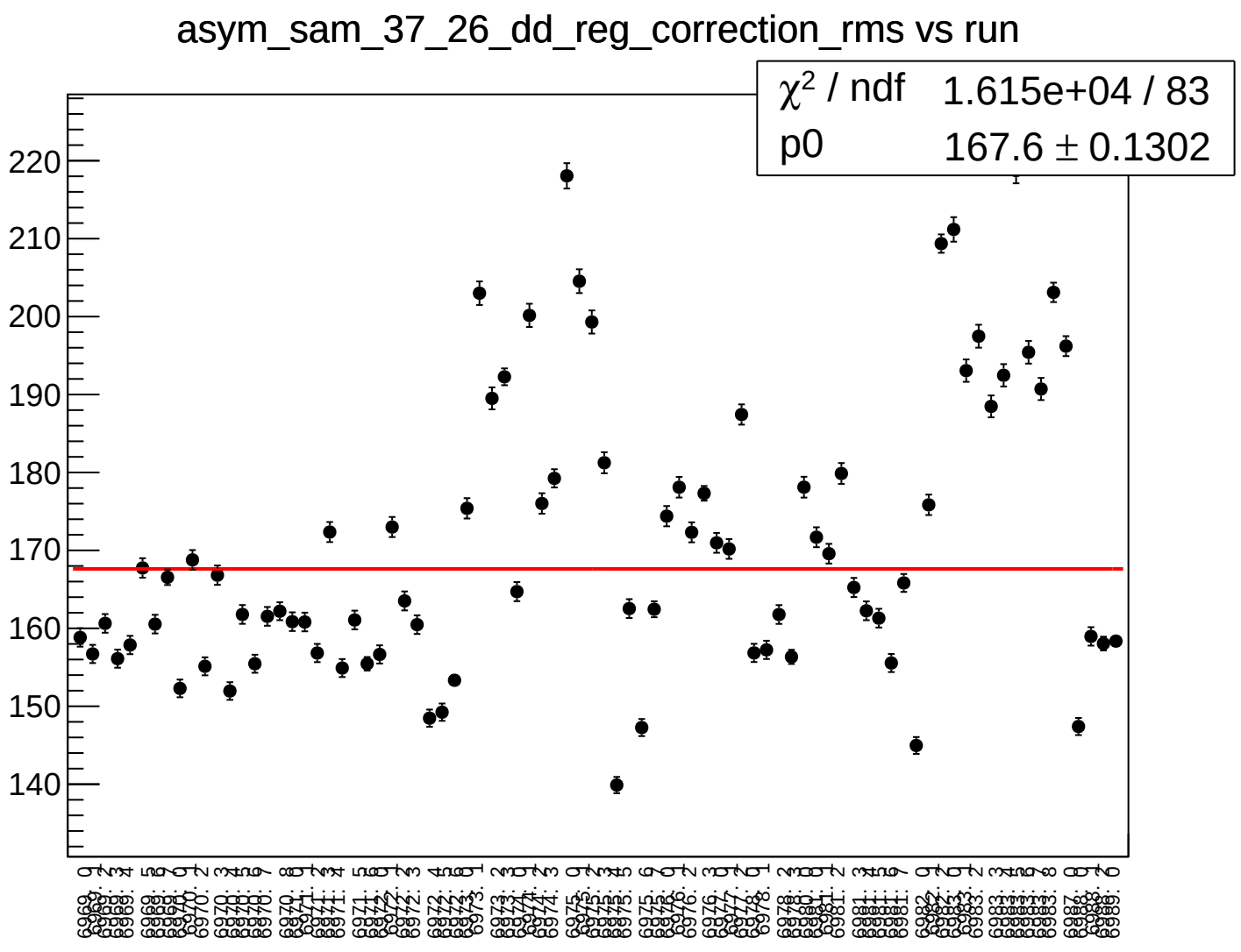

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 100.2 / 83
p0 −12.09 ± 45.65
pull
Entries 84
Mean 73.36
Std Dev 32.81

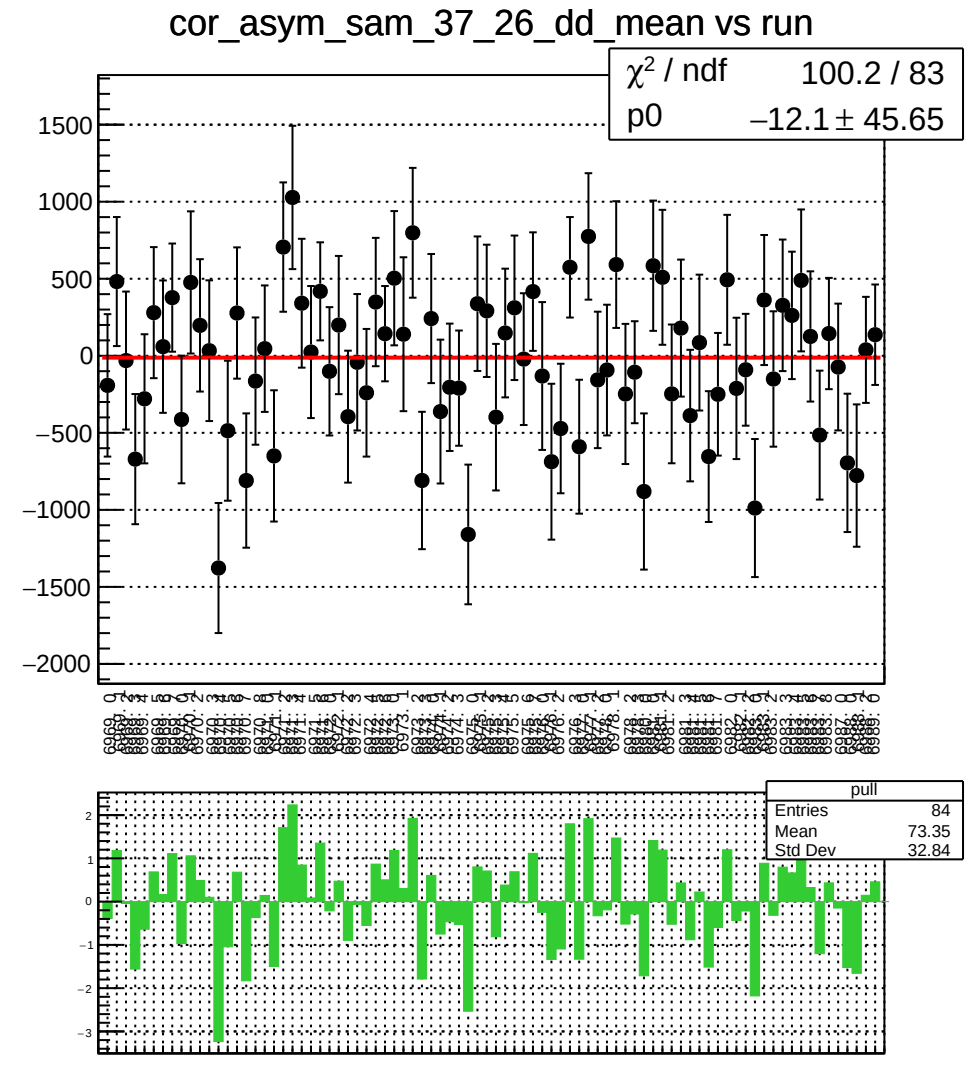

pull1D
Entries 84
Mean −0.03091
Std Dev 1.092

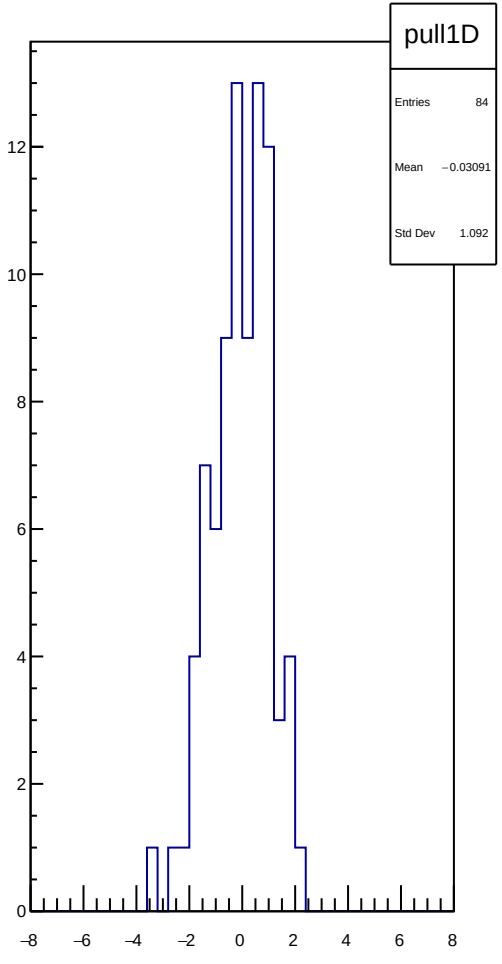

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 5896 / 83
p0 41.69 ± 0.03228
58
56
54
52
50
48
46
44
42
40
38

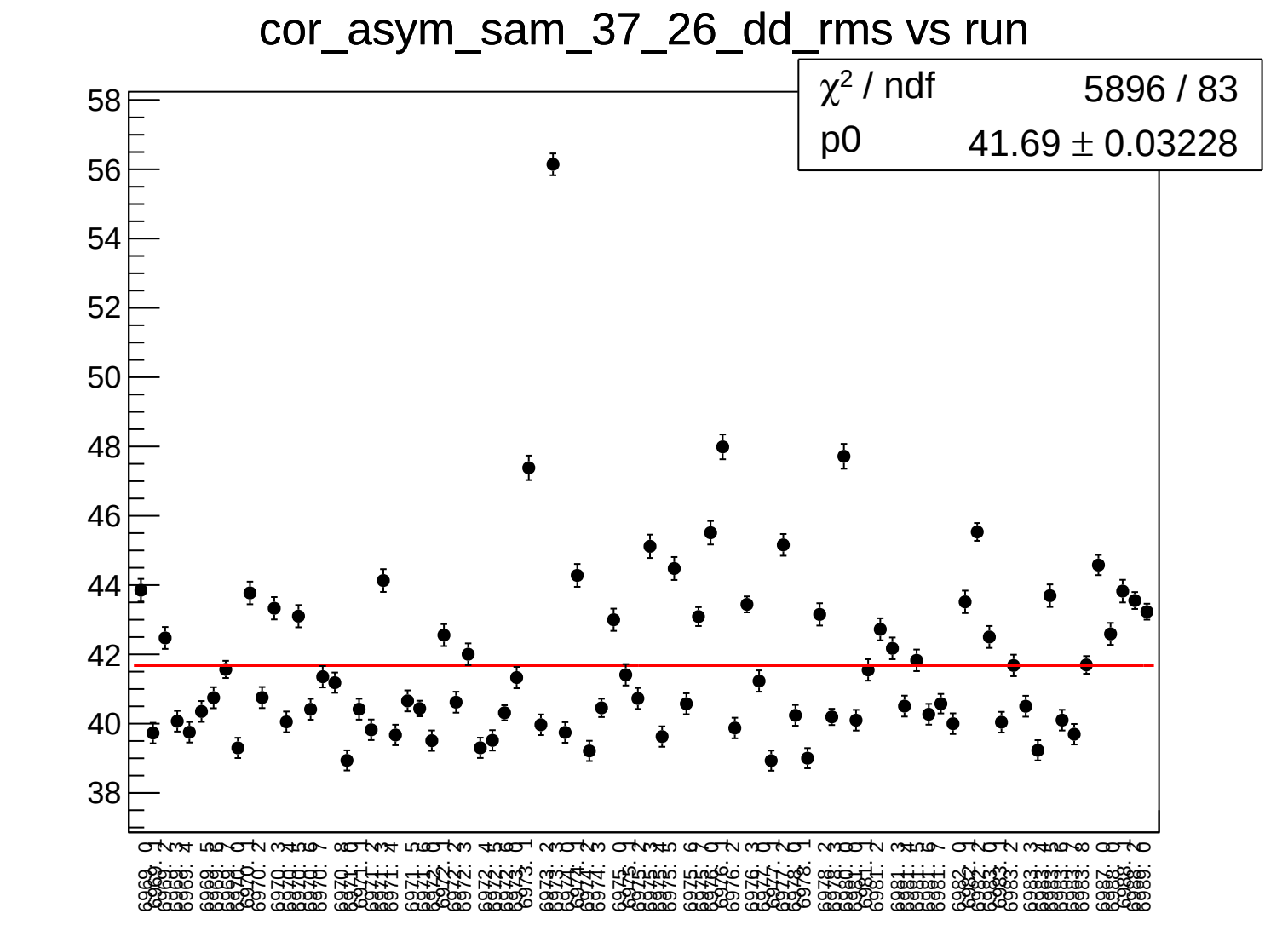

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 97.58 / 83
p0 −385.5 ± 184.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 437.4
Std Dev 0
3
2
1
0
−1
−2

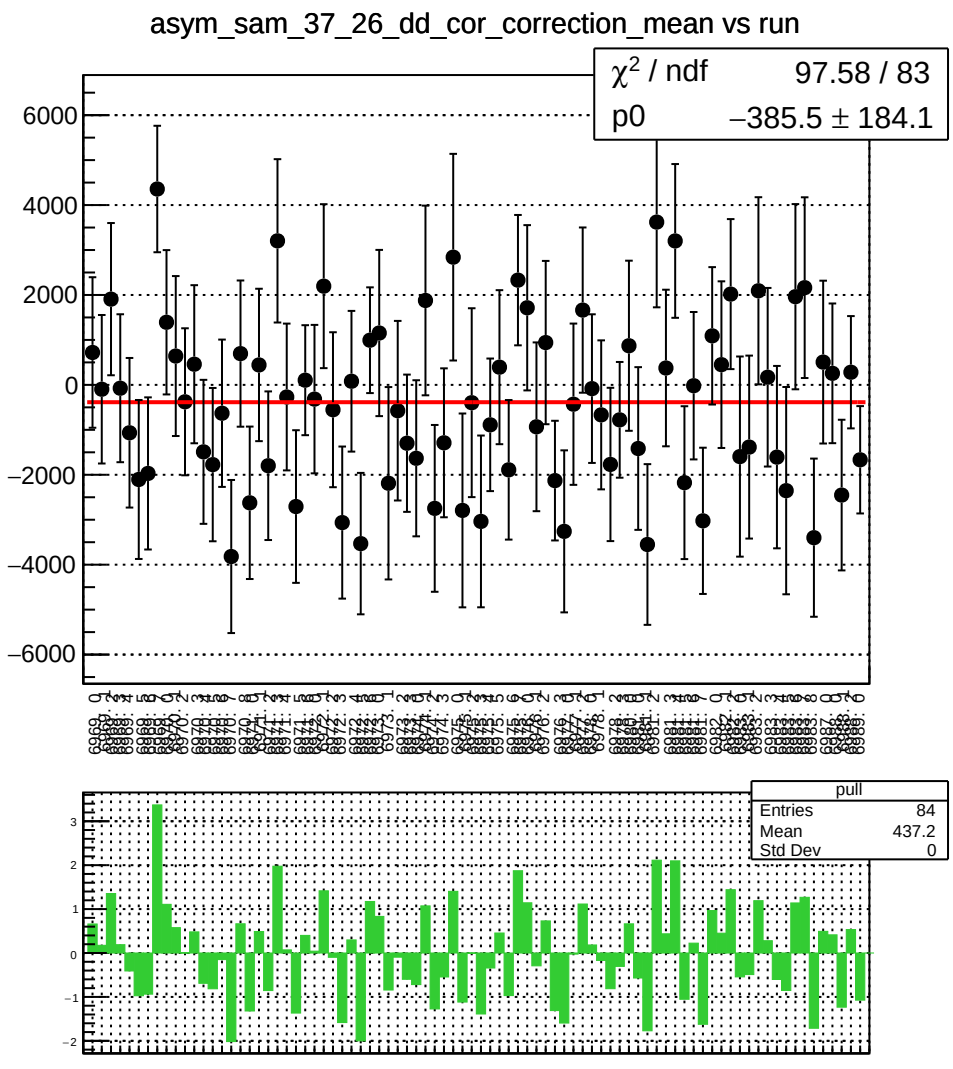

pull1D
Entries 84
Mean −0.001927
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

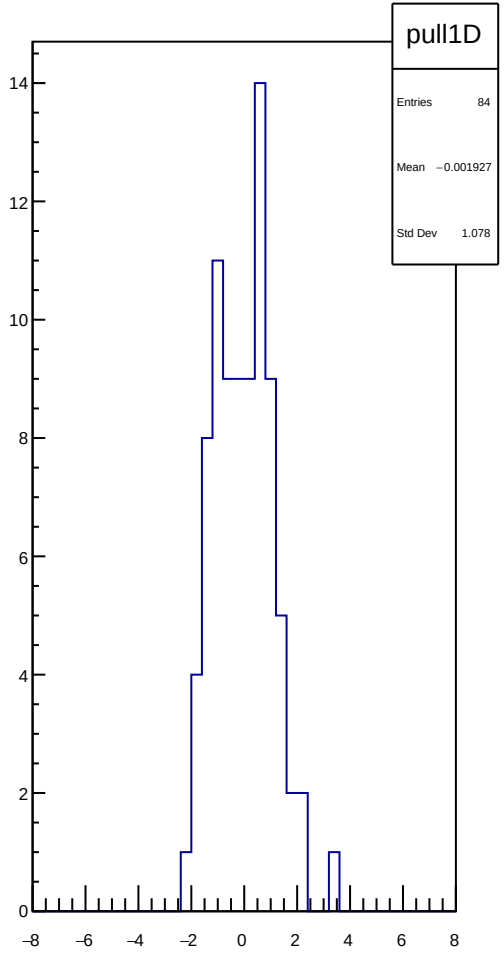

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1.615e+04 / 83
p0 167.6 ± 0.1302
220
210
200
190
180
170
160
150
140

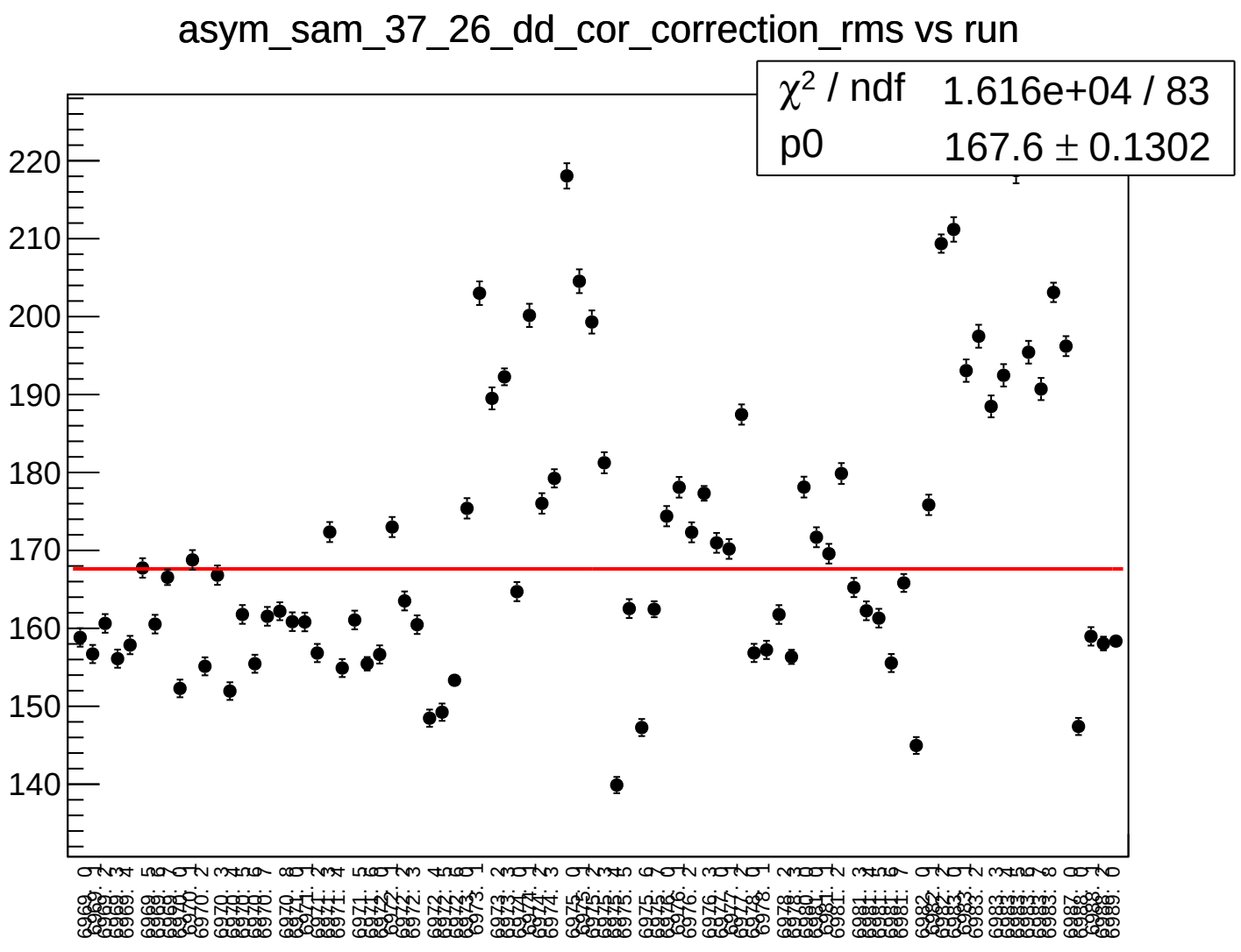

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 100.2 / 83
p0 −12.1 ± 45.65
pull
Entries 84
Mean 73.35
Std Dev 32.84

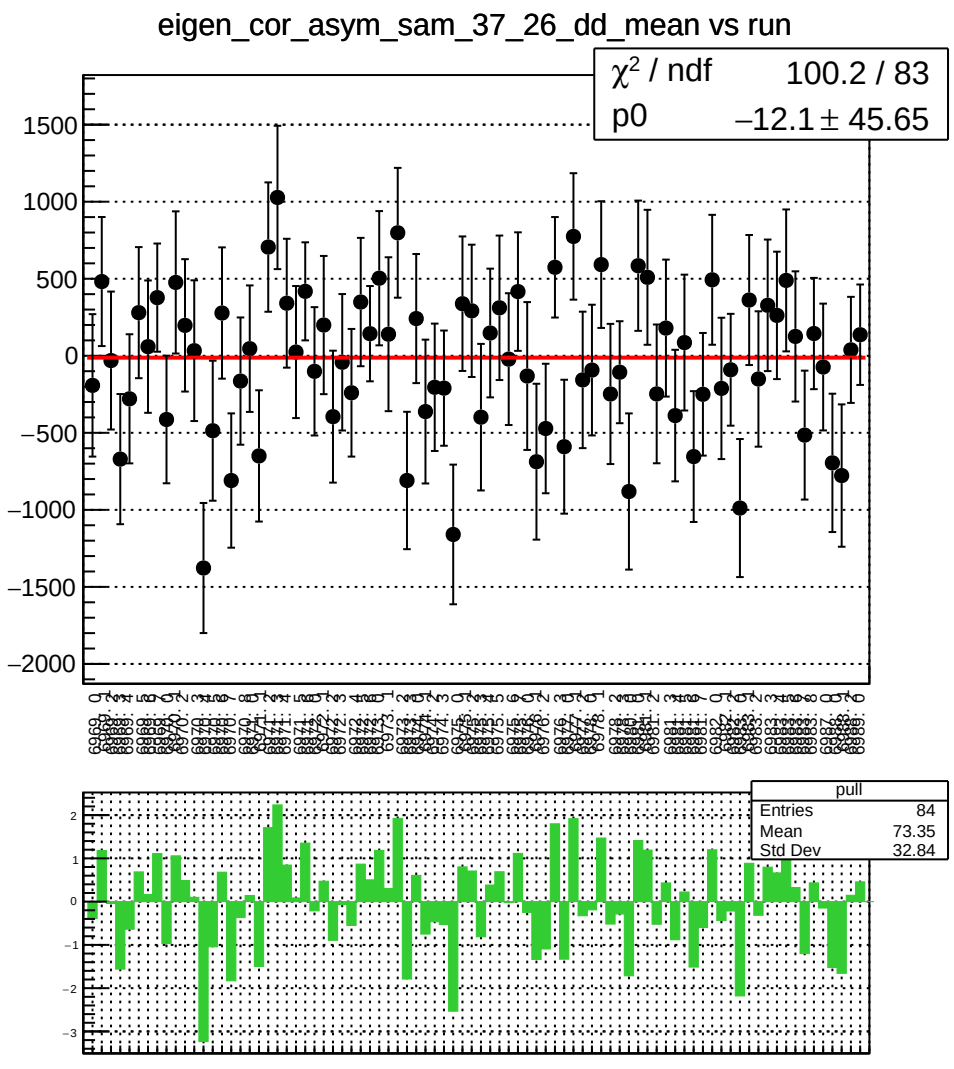

pull1D
Entries 84
Mean −0.03091
Std Dev 1.092

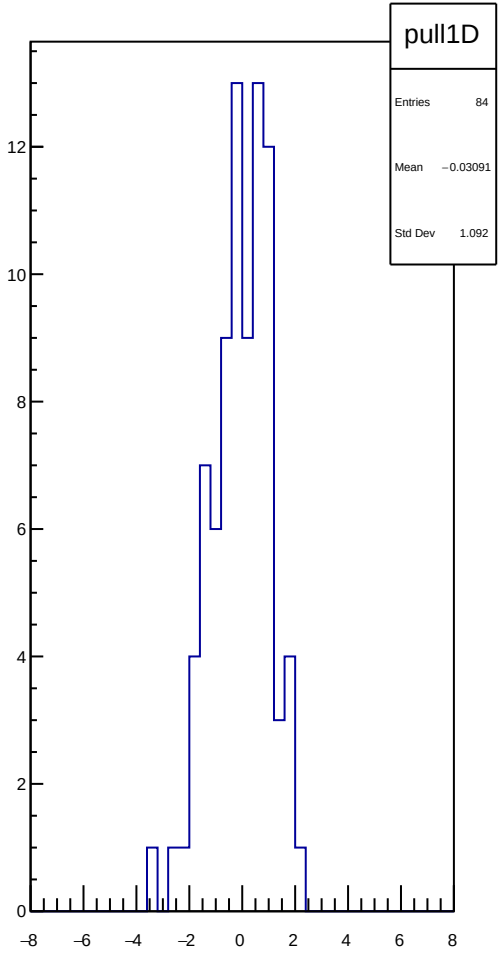

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 5896 / 83
p0 41.69 ± 0.03228
58
56
54
52
50
48
46
44
42
40
38

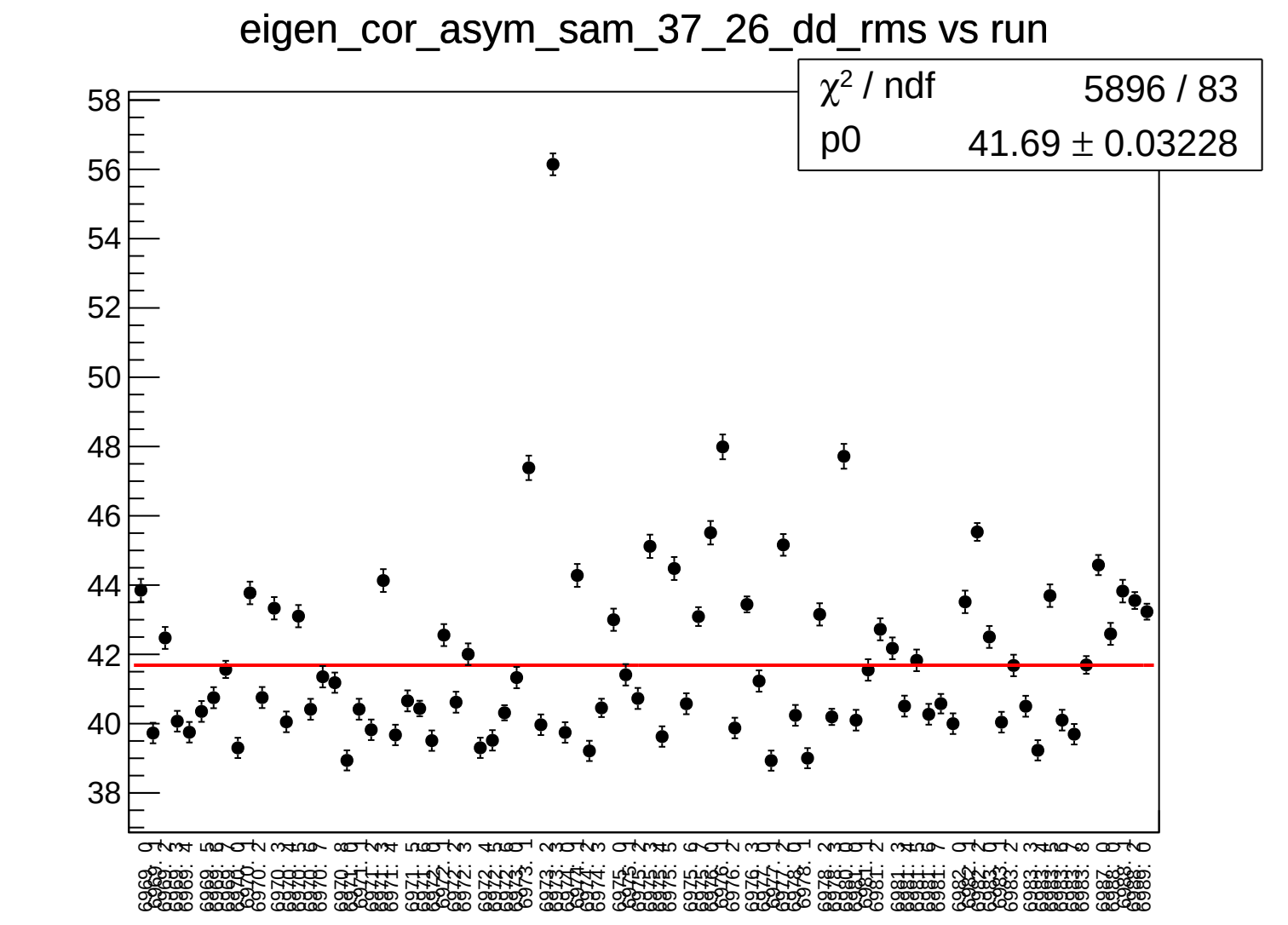

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 97.58 / 83
p0 −385.5 ± 184.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 437.2
Std Dev 0
3
2
1
0
−1
−2

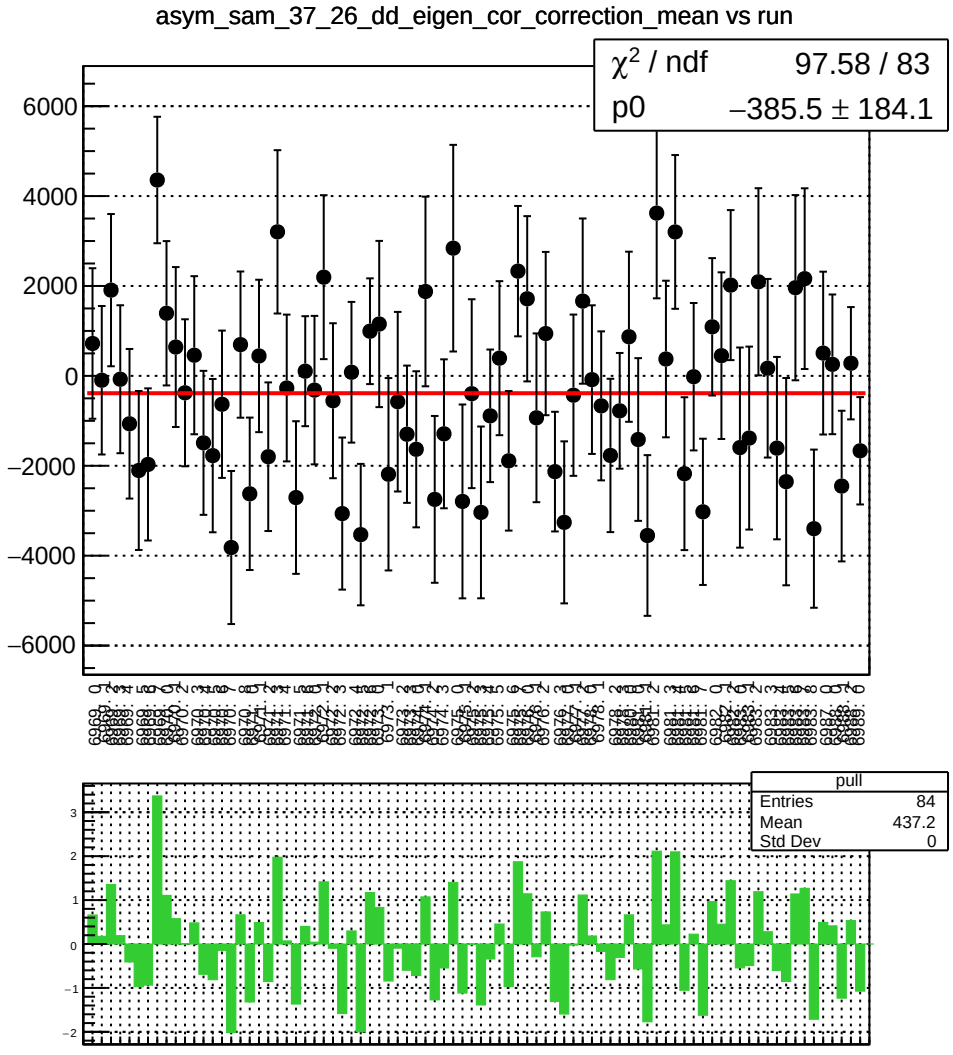

pull1D
Entries 84
Mean −0.001927
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

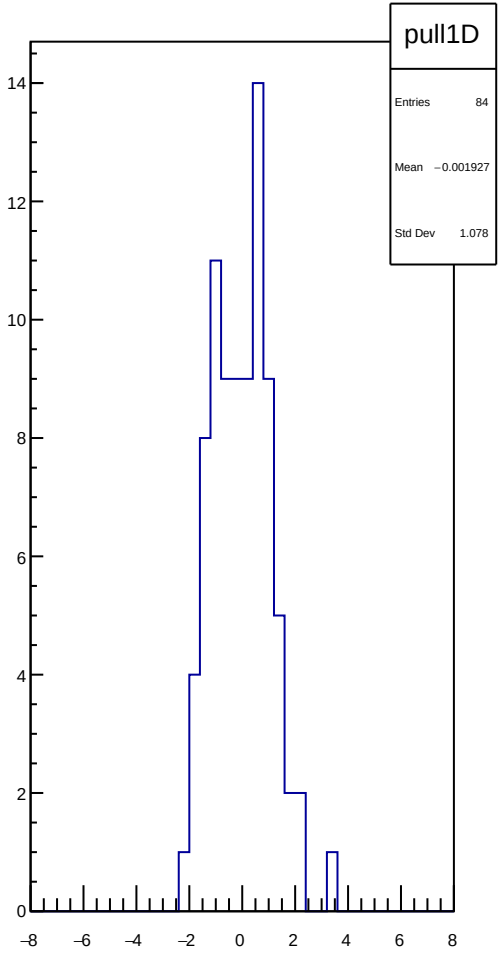

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 1.616e+04 / 83
p0 167.6 ± 0.1302
220
210
200
190
180
170
160
150
140

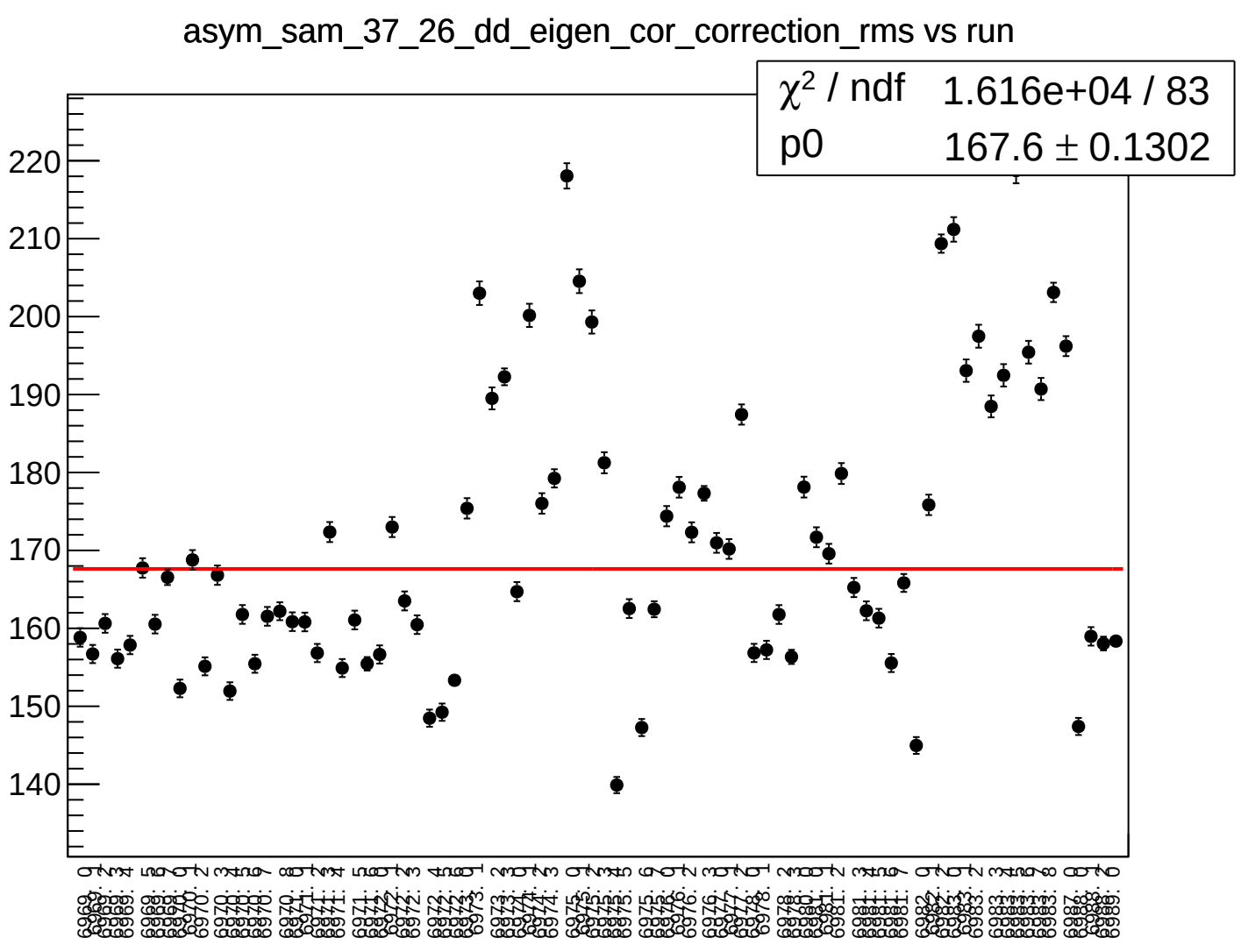

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 100.2 / 83
p0 −12.1 ± 45.65
pull
Entries 84
Mean 73.35
Std Dev 32.84

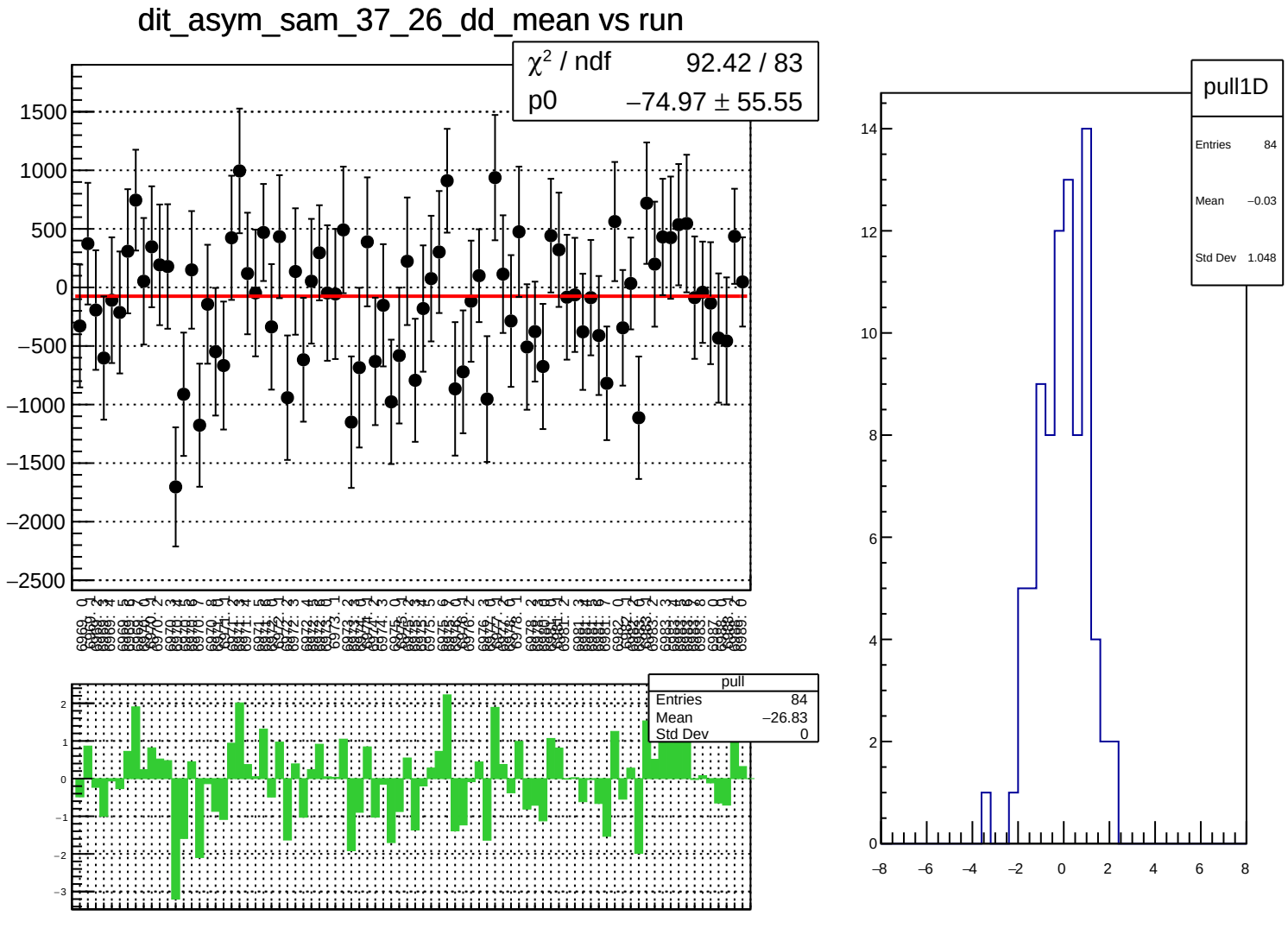

pull1D
Entries 84
Mean −0.03091
Std Dev 1.092

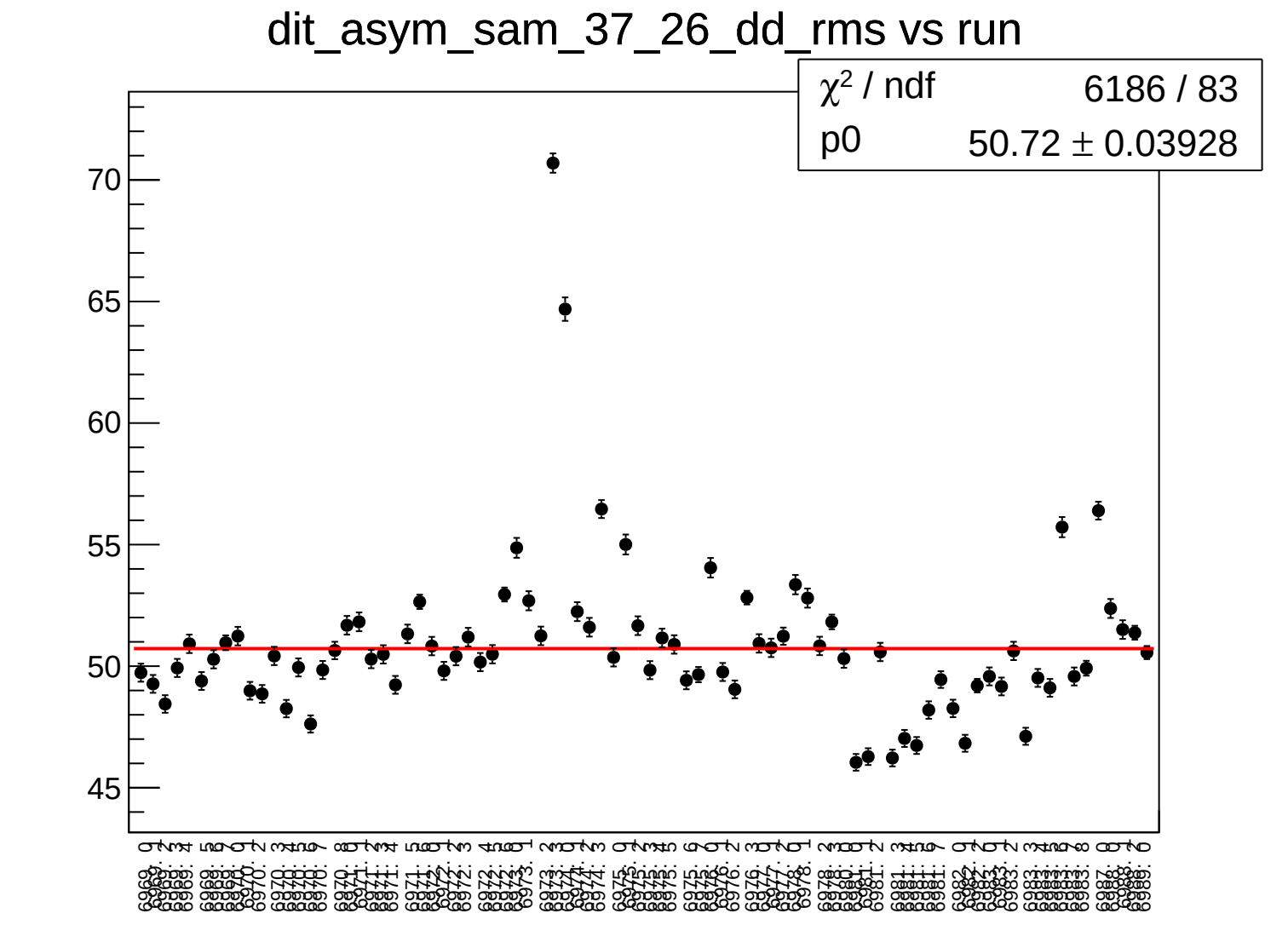

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 5896 / 83
p0 41.69 ± 0.03228
58
56
54
52
50
48
46
44
42
40
38

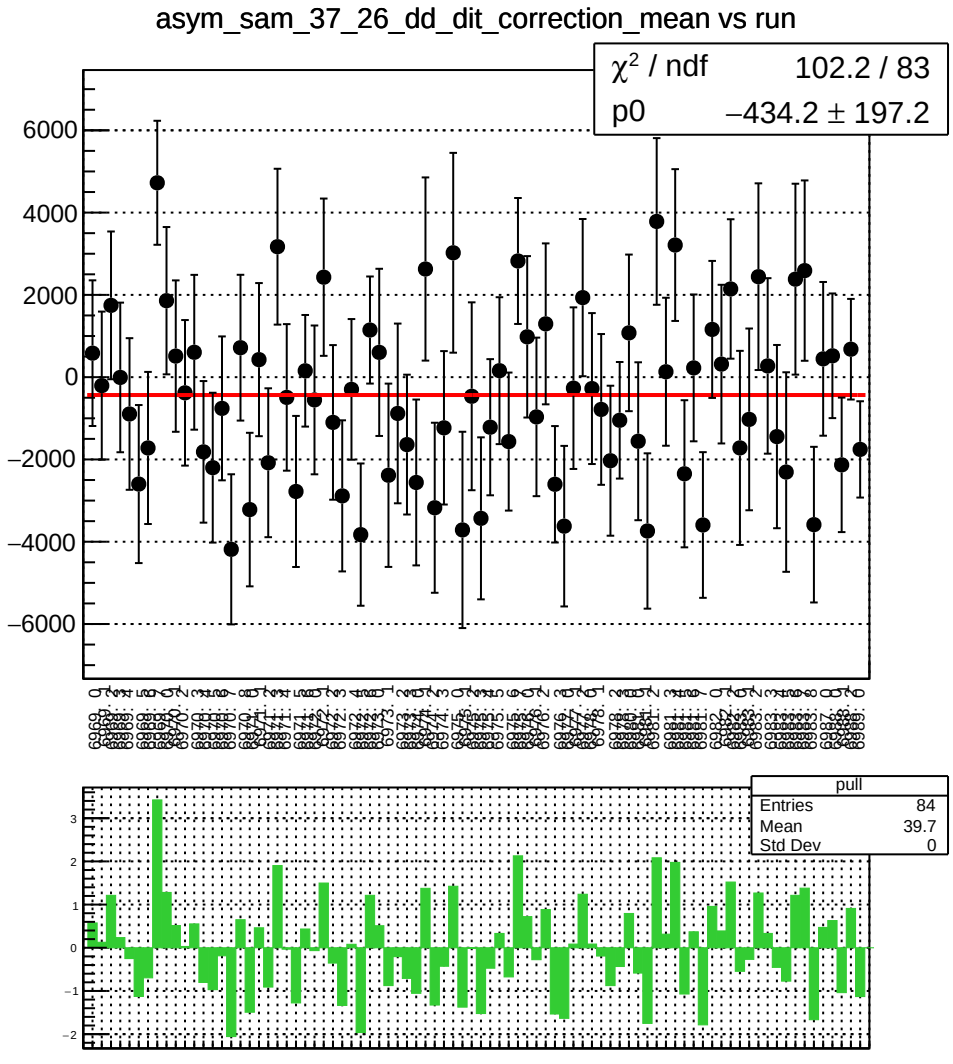

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.58 / 83
p0 −385.5 ± 184.1
pull
Entries 84
Mean 437.2
Std Dev 0

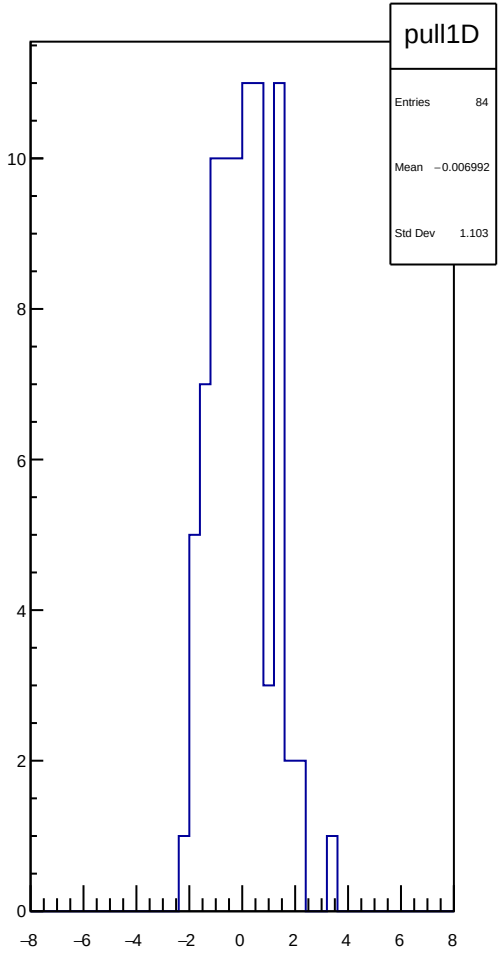

pull1D
Entries 84
Mean −0.001927
Std Dev 1.078

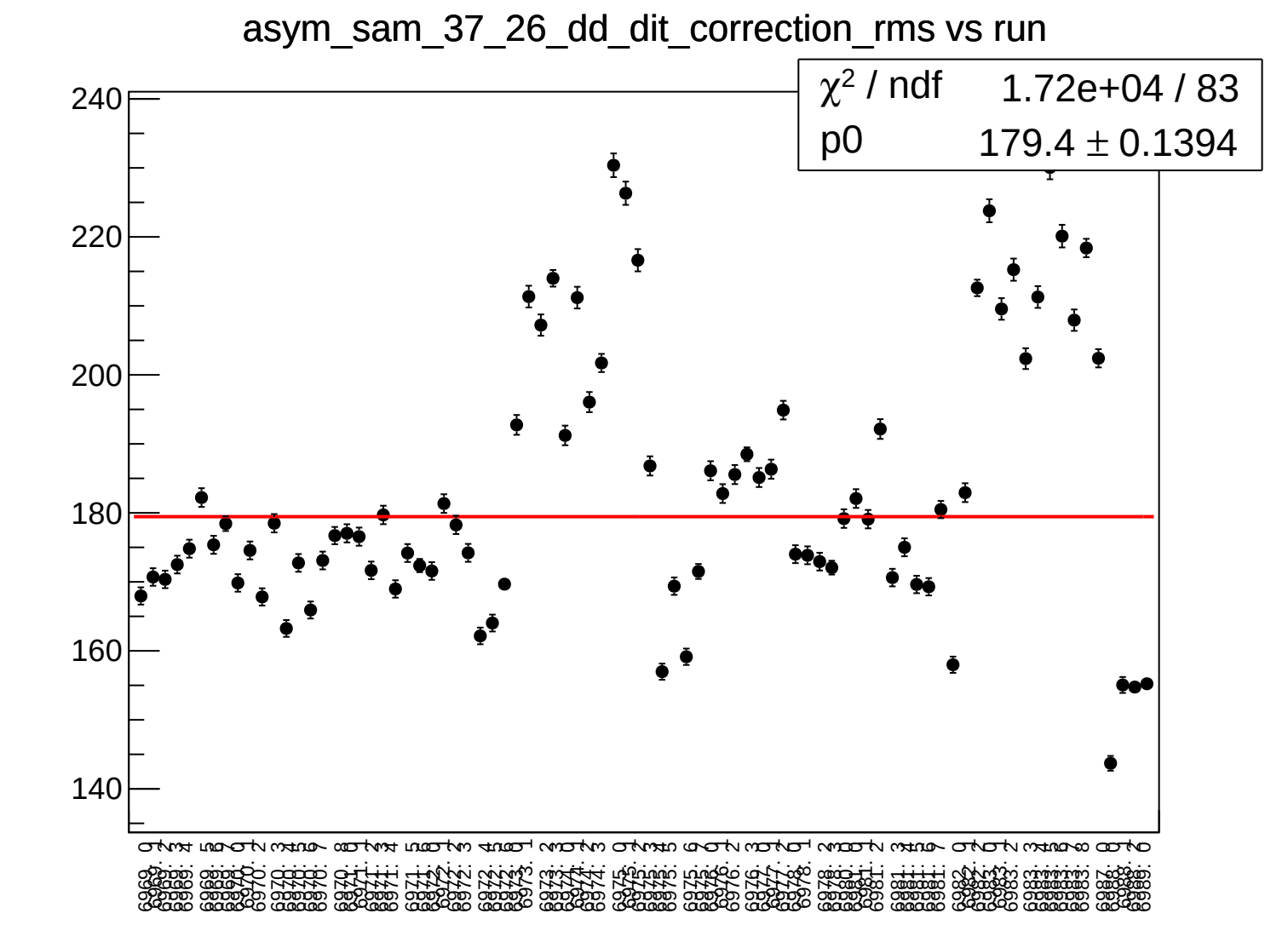

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.616e+04 / 83
p0 167.6 ± 0.1302
220
210
200
190
180
170
160
150
140

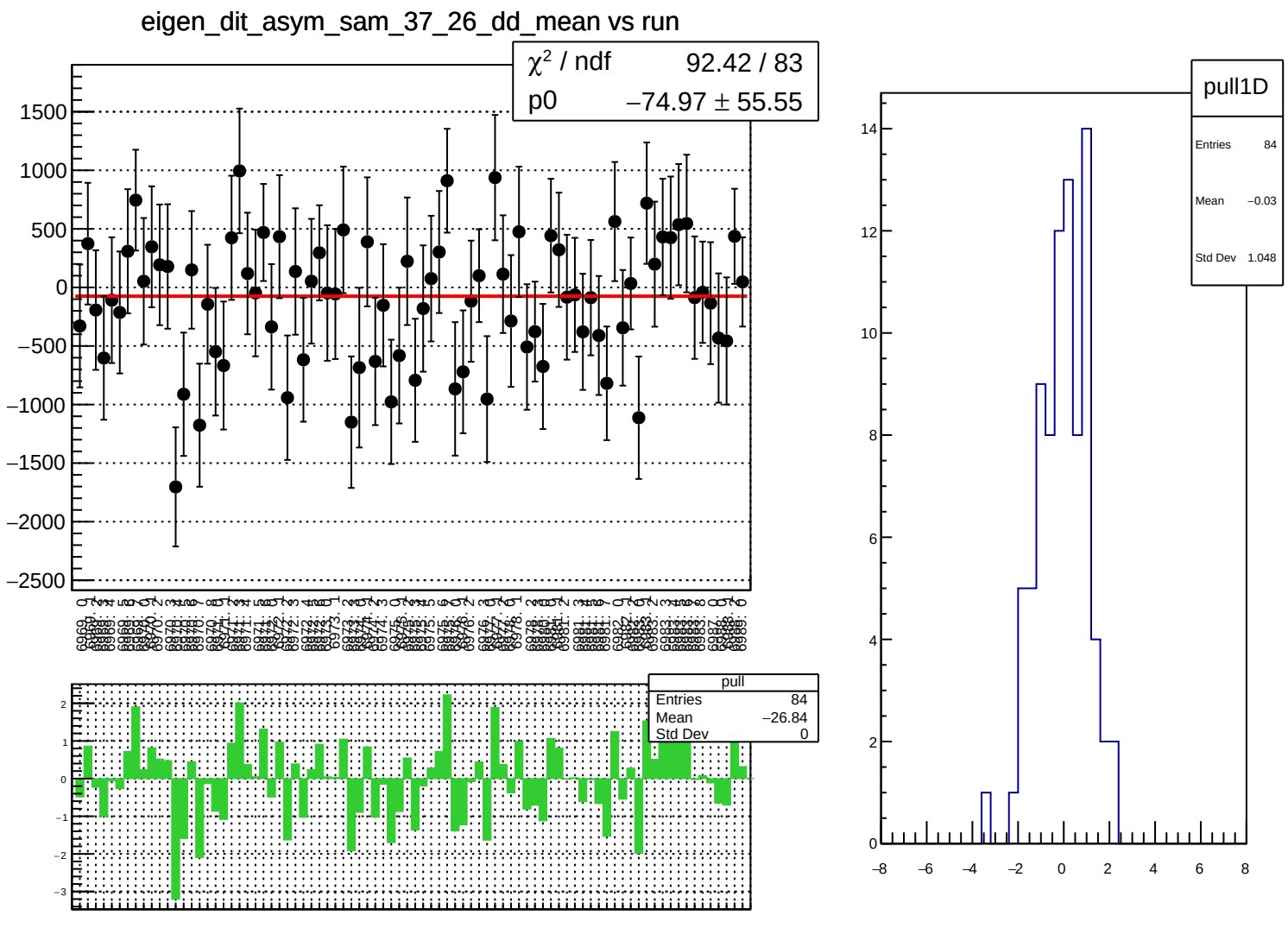

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.42 / 83
p0 −74.97 ± 55.55
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull
Entries 84
Mean −26.83
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.03
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

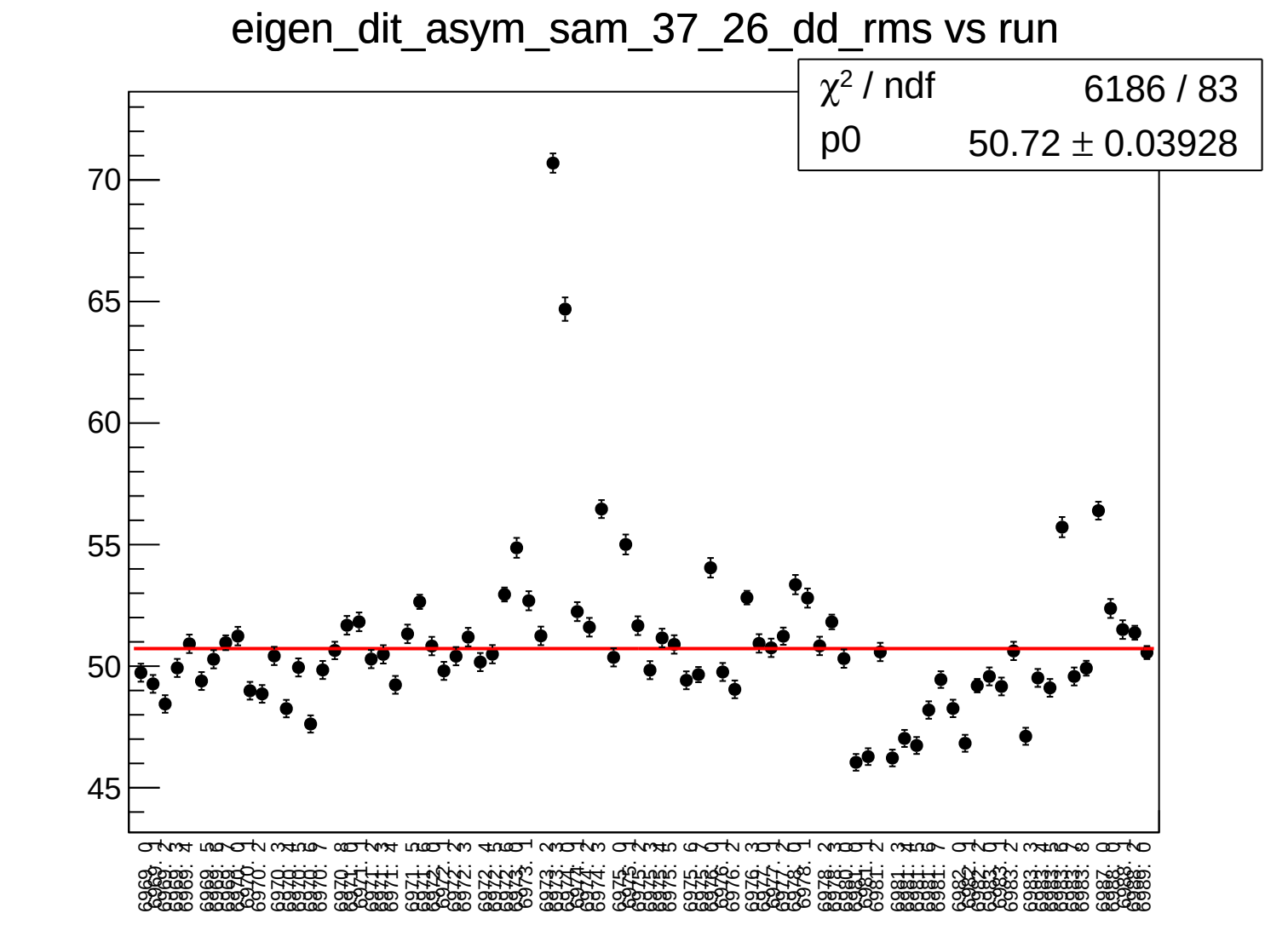

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 6186 / 83
p0 50.72 ± 0.03928
70
65
60
55
50
45

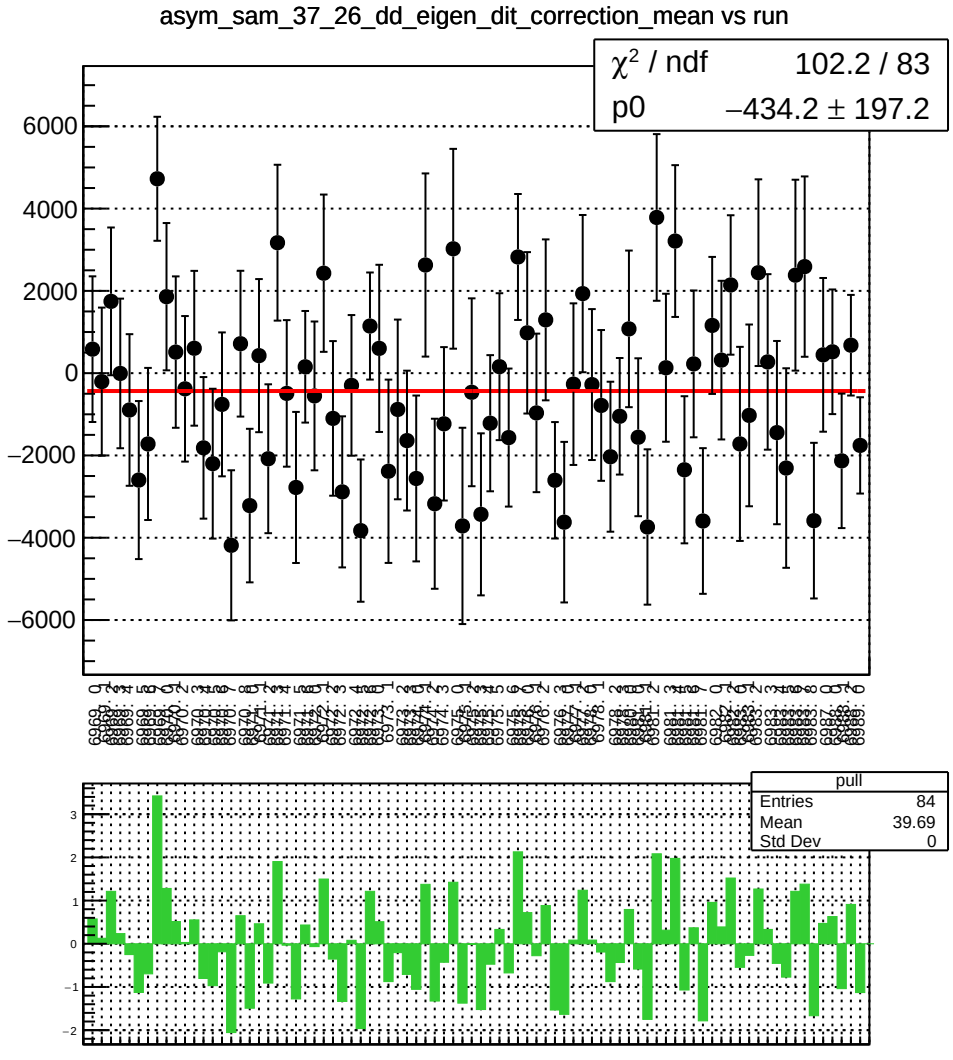

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 102.2 / 83
p0 −434.2 ± 197.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 39.7
Std Dev 0
3
2
1
0
−1
−2

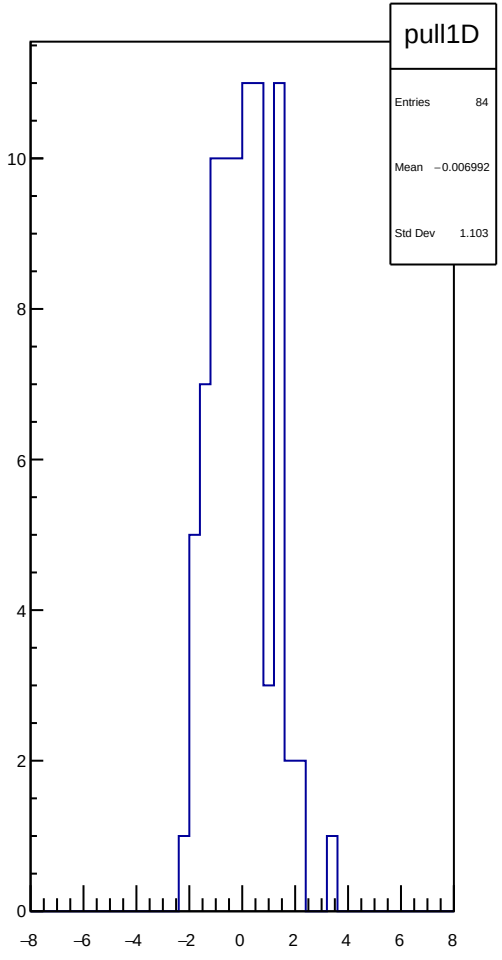

pull1D
Entries 84
Mean −0.006992
Std Dev 1.103
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

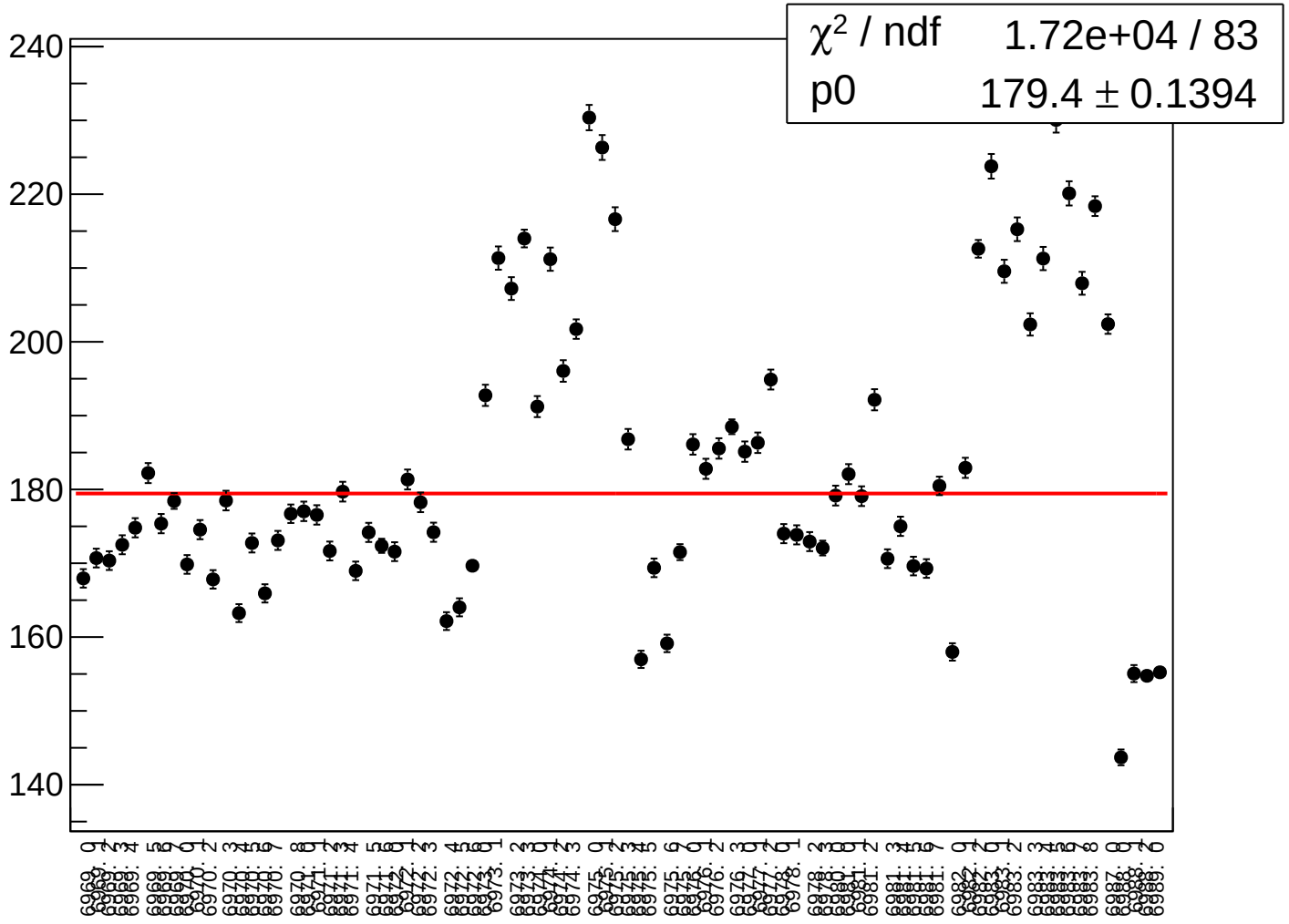

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.72e+04 / 83
p0 179.4 ± 0.1394
240
220
200
180
160
140

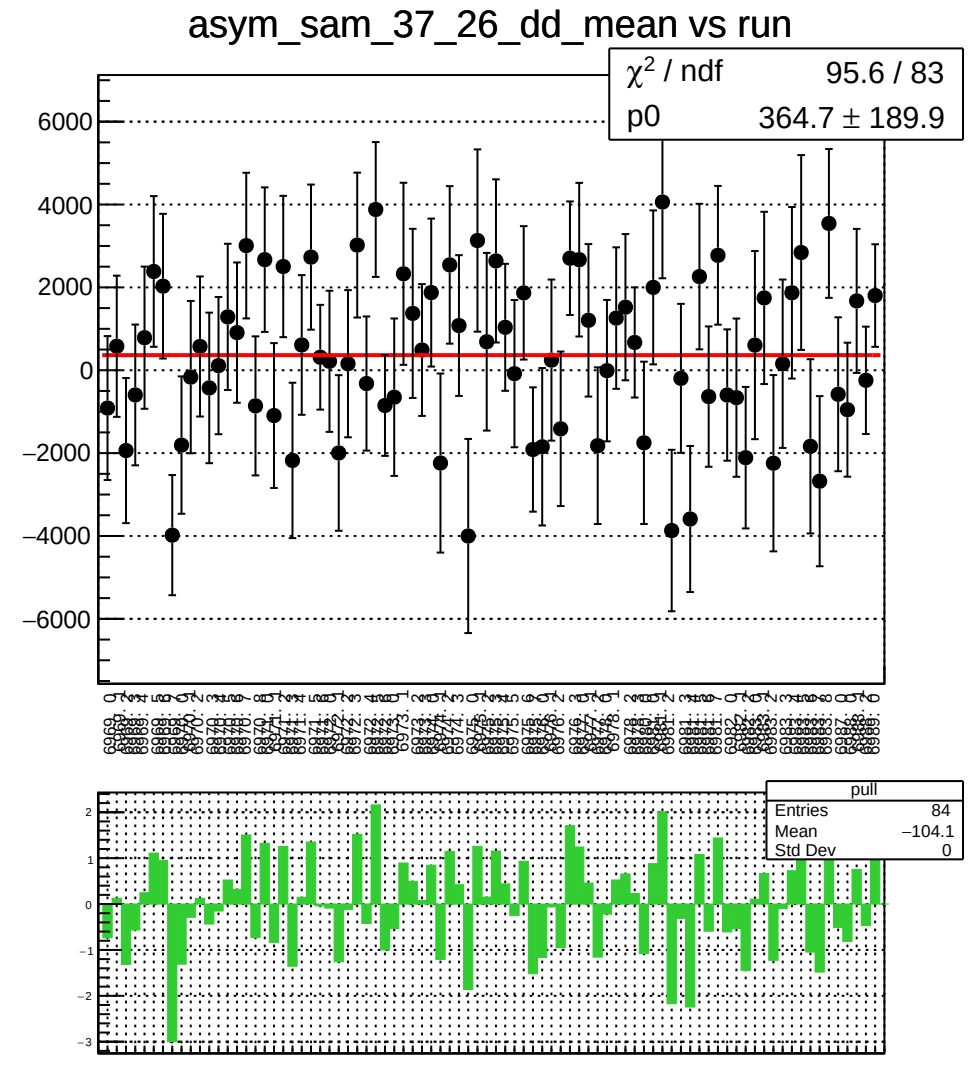

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.42 / 83
p0 −74.97 ± 55.55
pull
Entries 84
Mean −26.84
Std Dev 0
pull1D
Entries 84
Mean −0.03
Std Dev 1.048

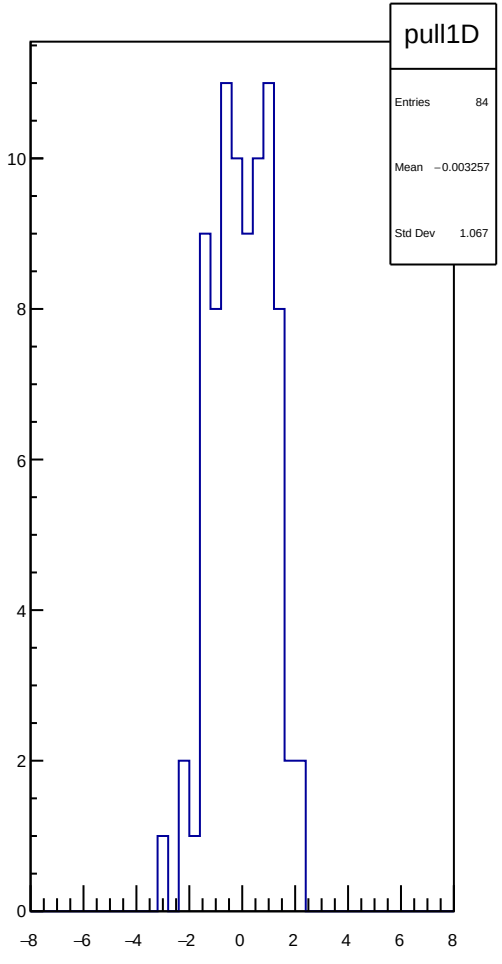

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 6186 / 83
p0 50.72 ± 0.03928
70
65
60
55
50
45

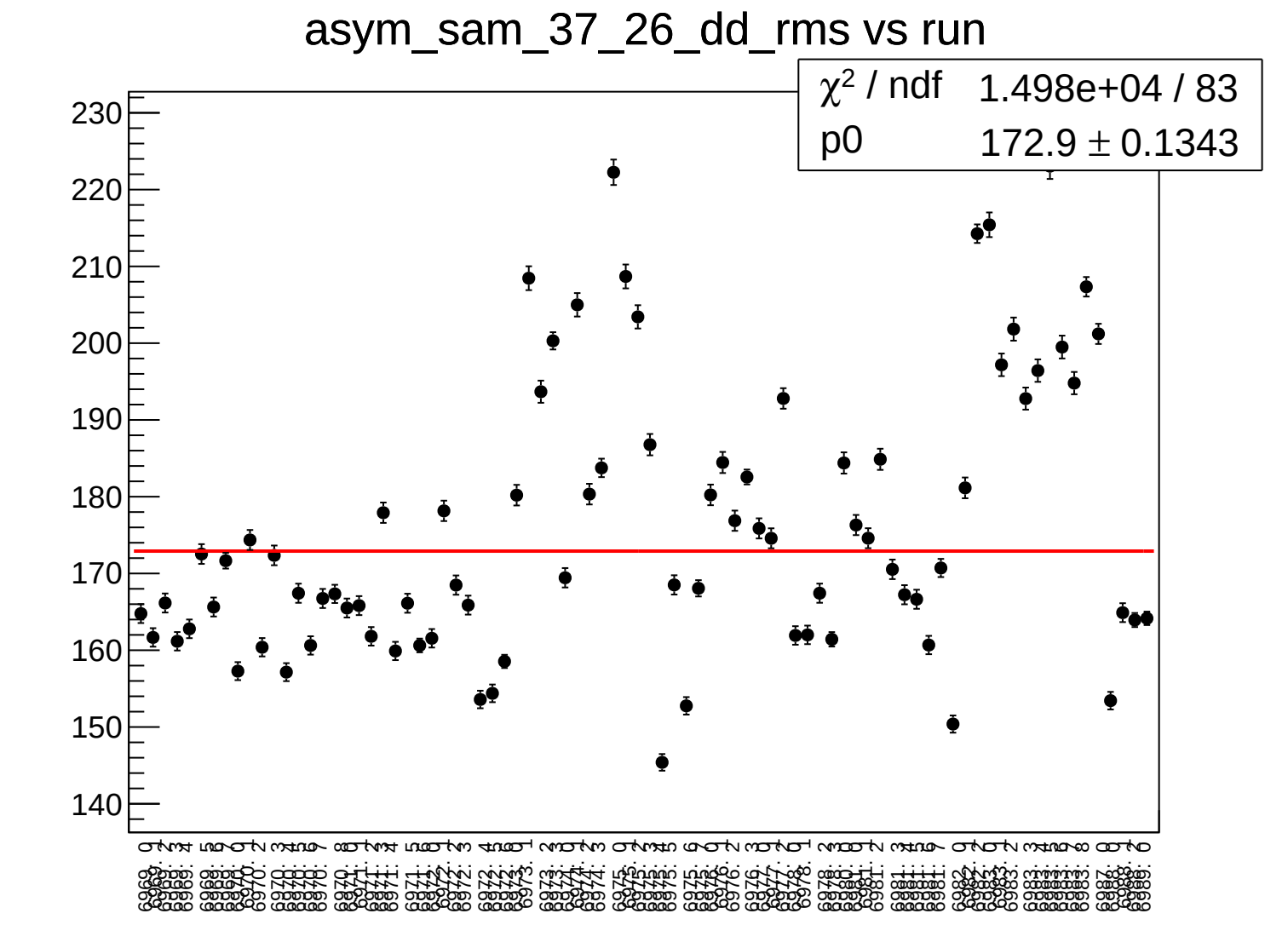

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.2 / 83
p0 −434.2 ± 197.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 39.69
Std Dev 0
3
2
1
0
−1
−2

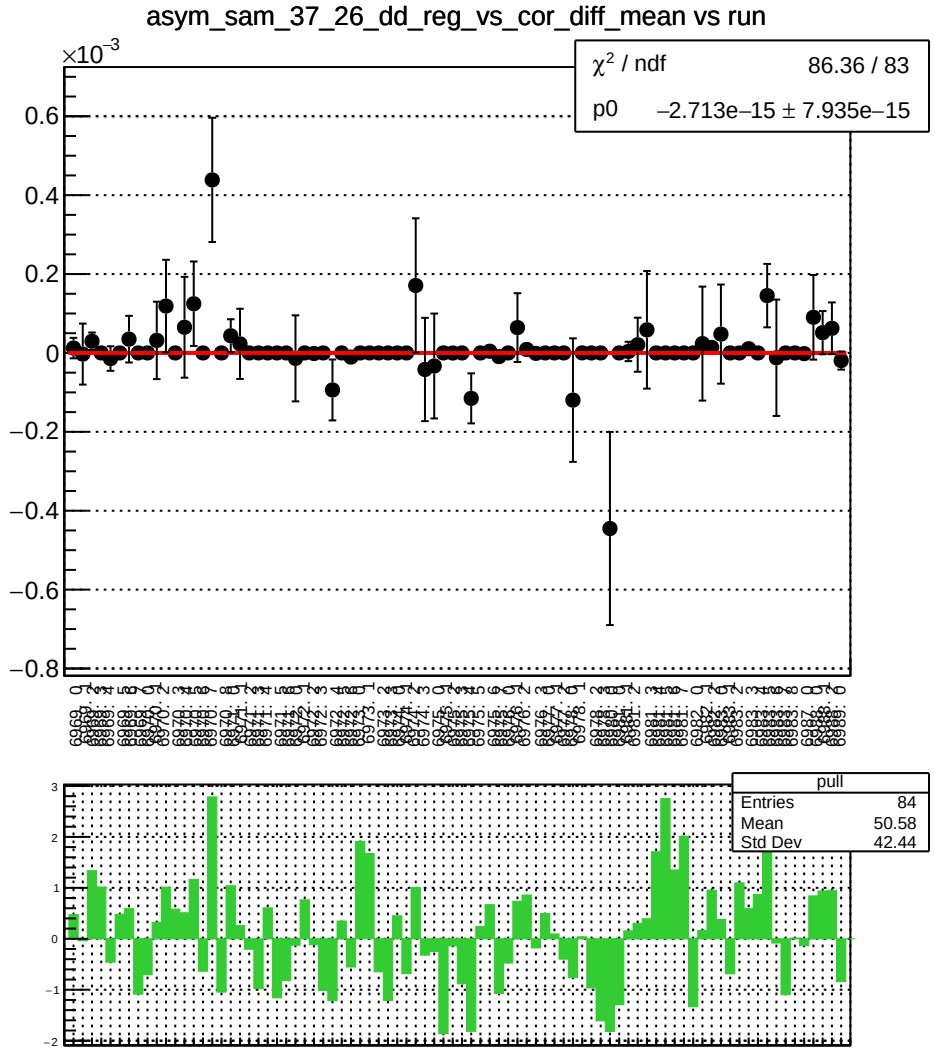

pull1D
Entries 84
Mean −0.006992
Std Dev 1.103
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

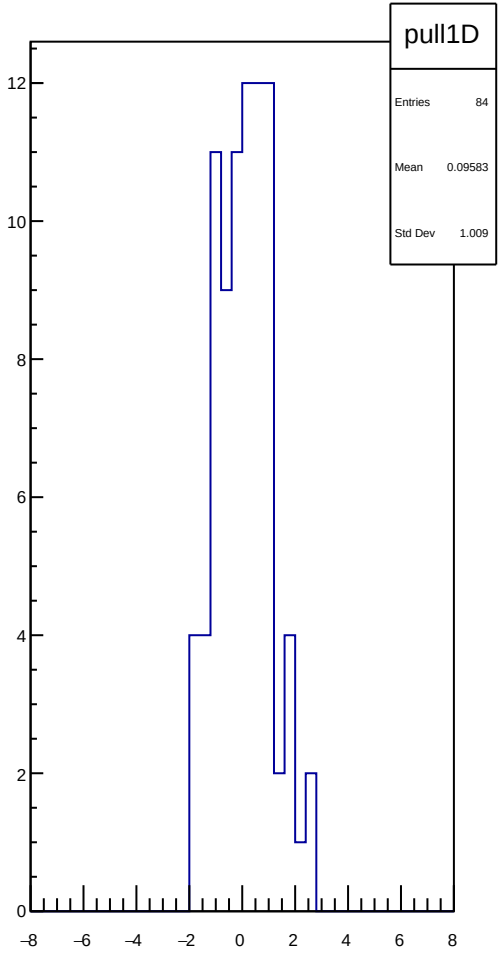

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.72e+04 / 83
p0 179.4 ± 0.1394
240
220
200
180
160
140

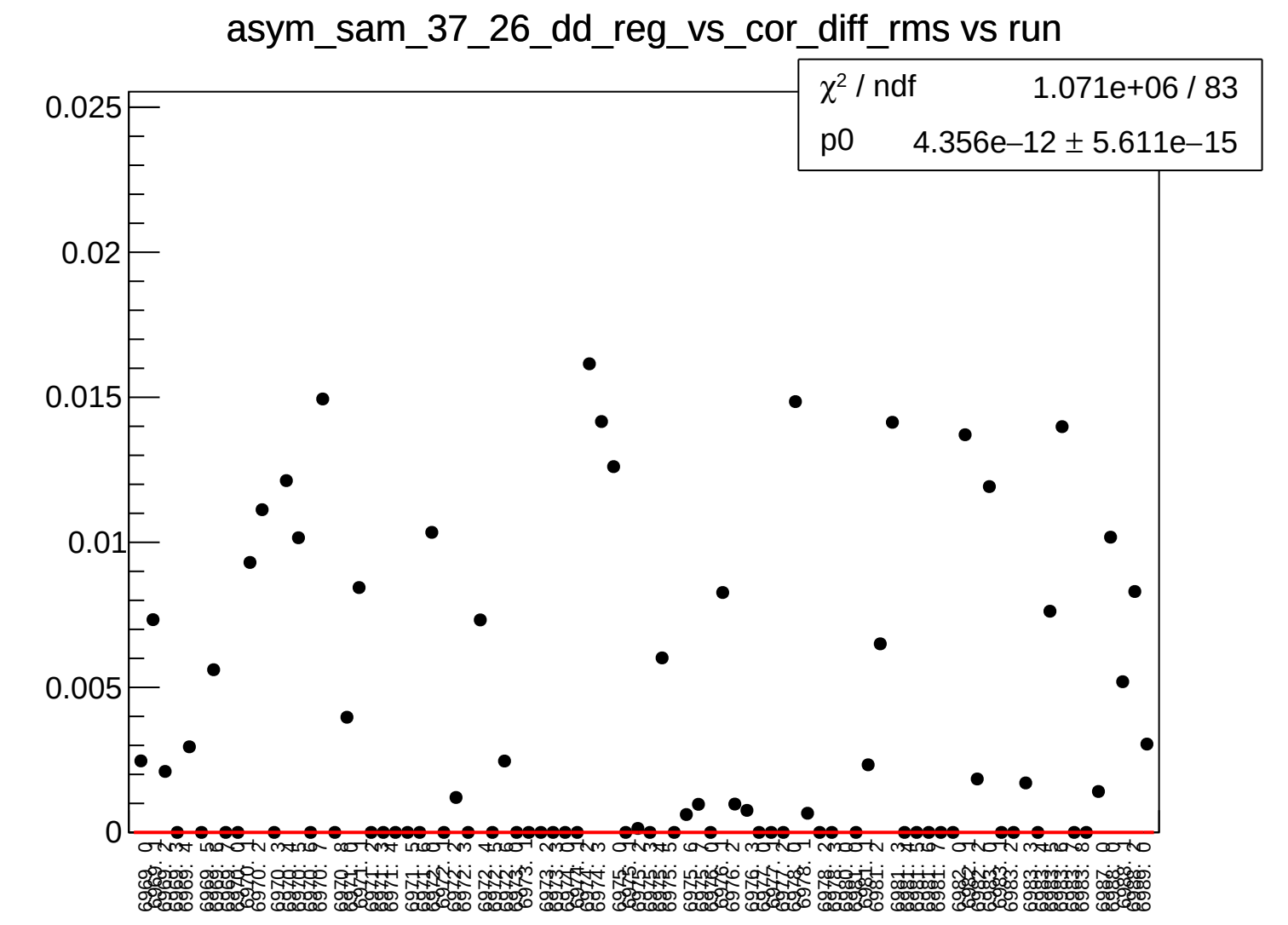

asym_sam_37_26_dd_mean vs run
χ² / ndf 95.6 / 83
p0 364.7 ± 189.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean −104.1
Std Dev 0
2
1
0
−1
−2
−3

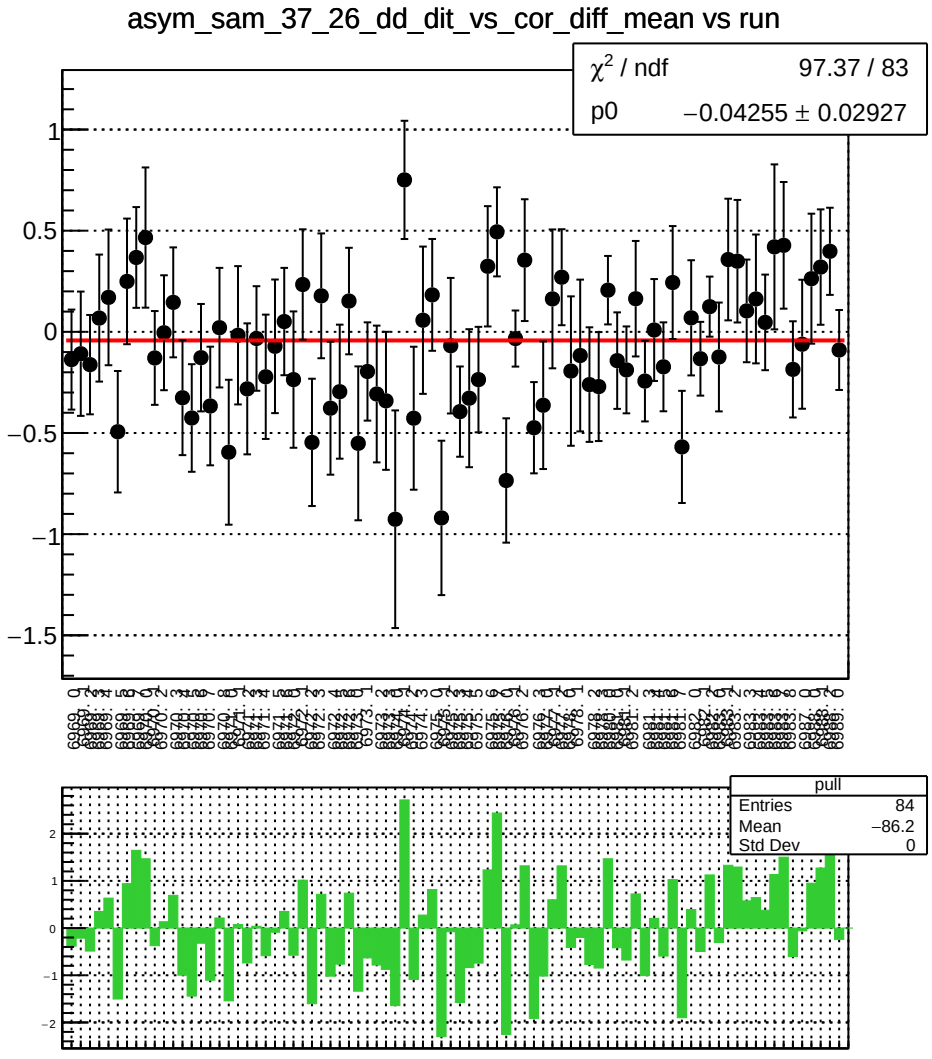

pull1D
Entries 84
Mean −0.003257
Std Dev 1.067
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

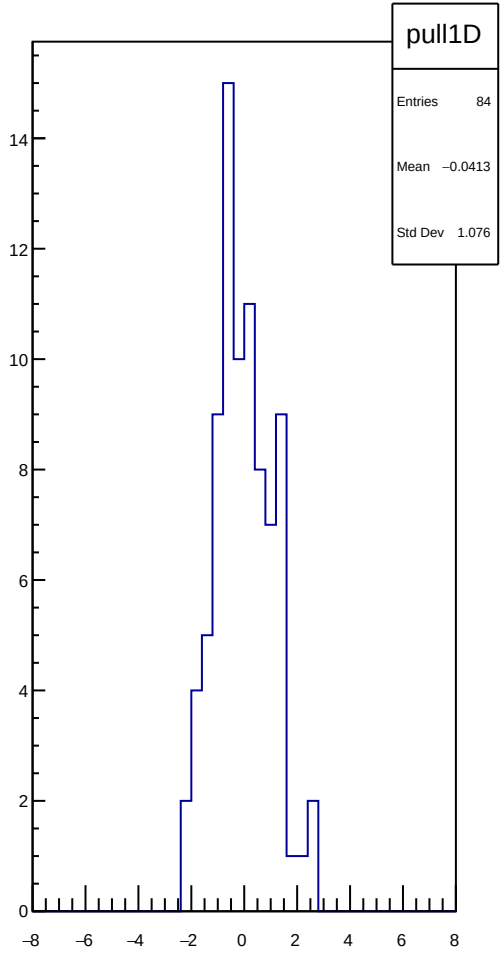

asym_sam_37_26_dd_rms vs run
χ² / ndf 1.498e+04 / 83
p0 172.9 ± 0.1343
230
220
210
200
190
180
170
160
150
140

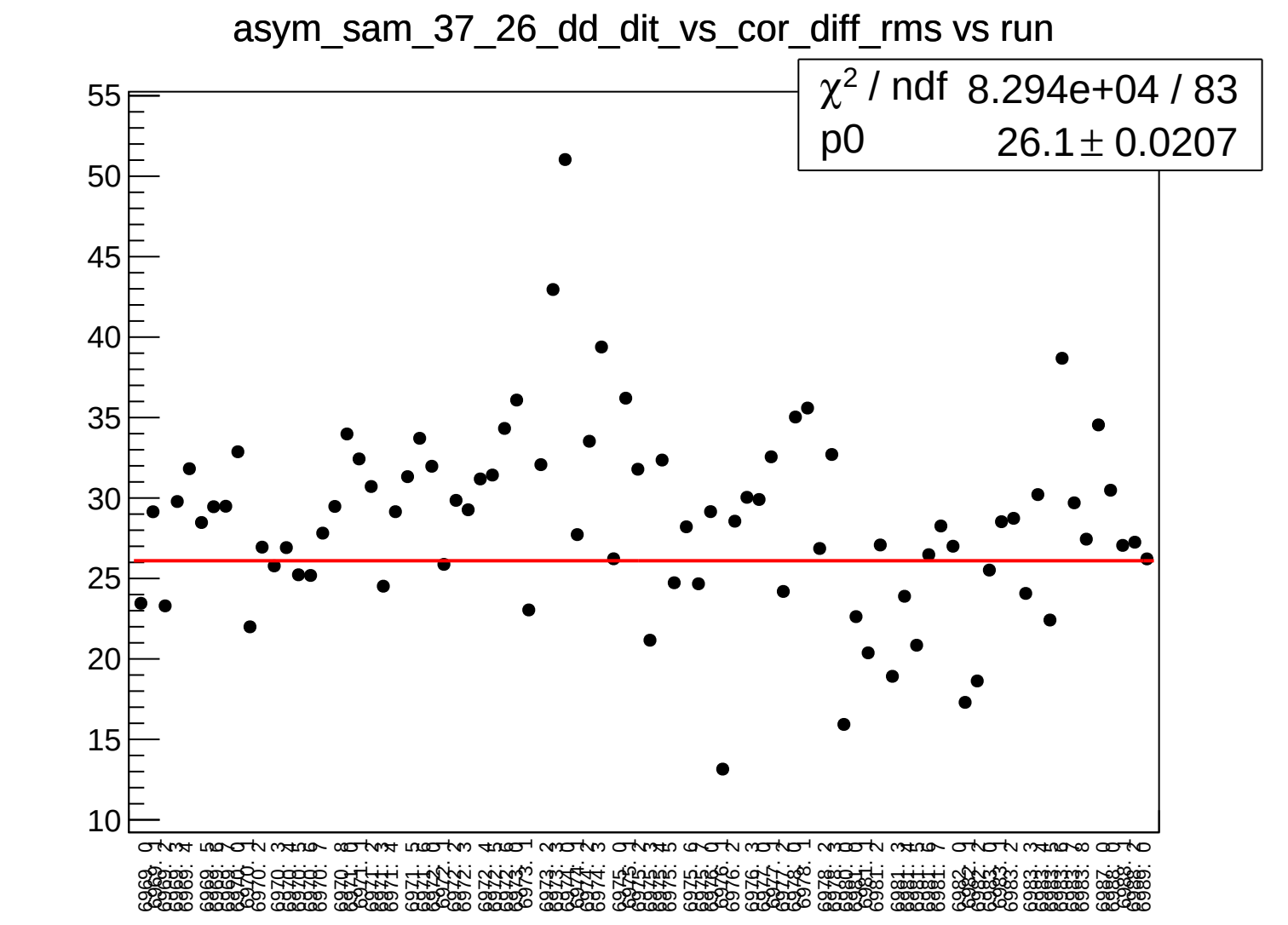

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 86.36 / 83
p0 −2.713e−15 ± 7.935e−15
pull
Entries 84
Mean 50.58
Std Dev 42.44

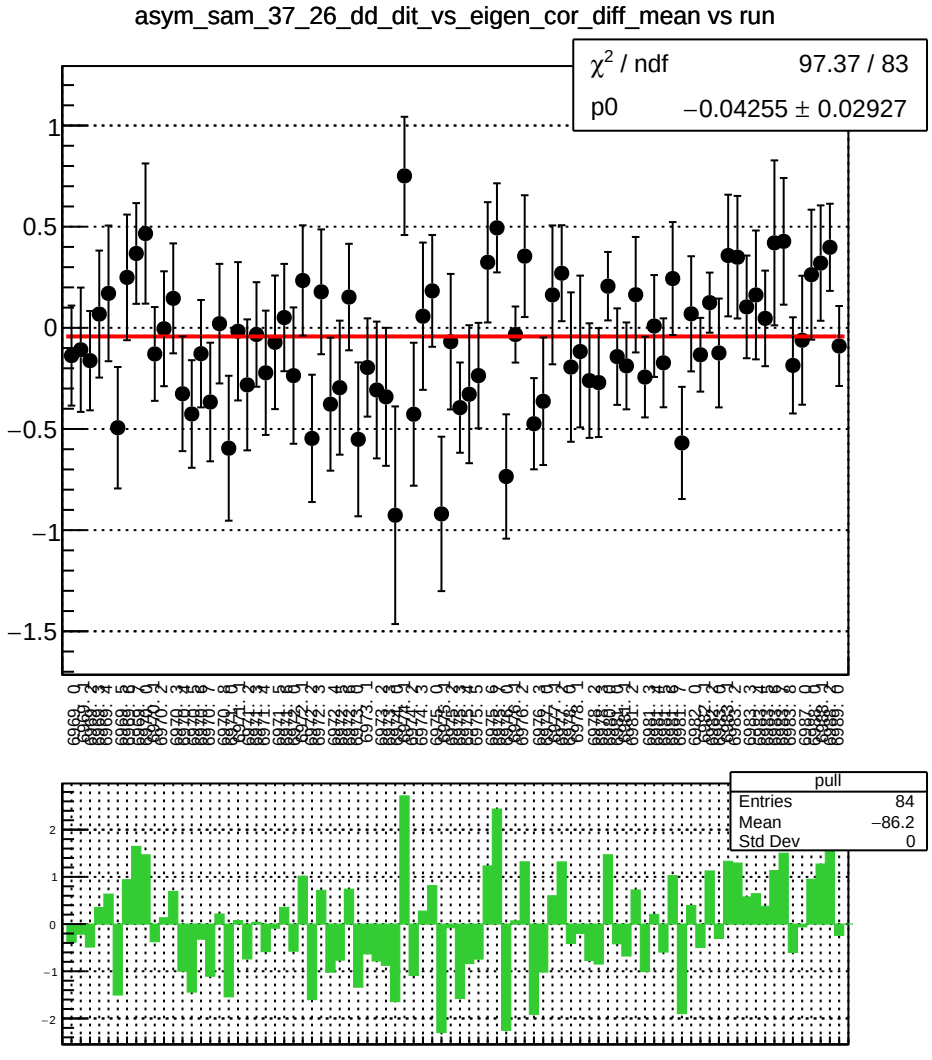

pull1D
Entries 84
Mean 0.09583
Std Dev 1.009

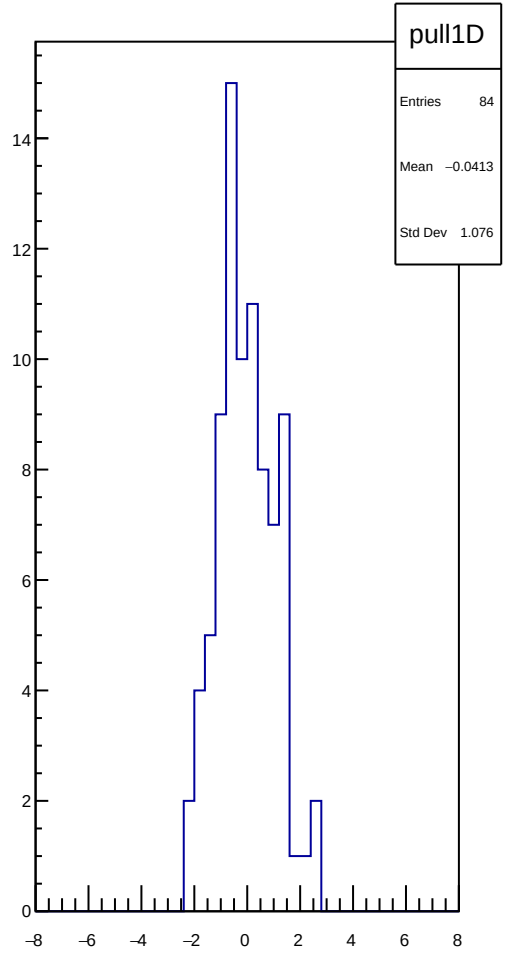

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.071e+06 / 83
p0 4.356e−12 ± 5.611e−15
0.025
0.02
0.015
0.01
0.005
0

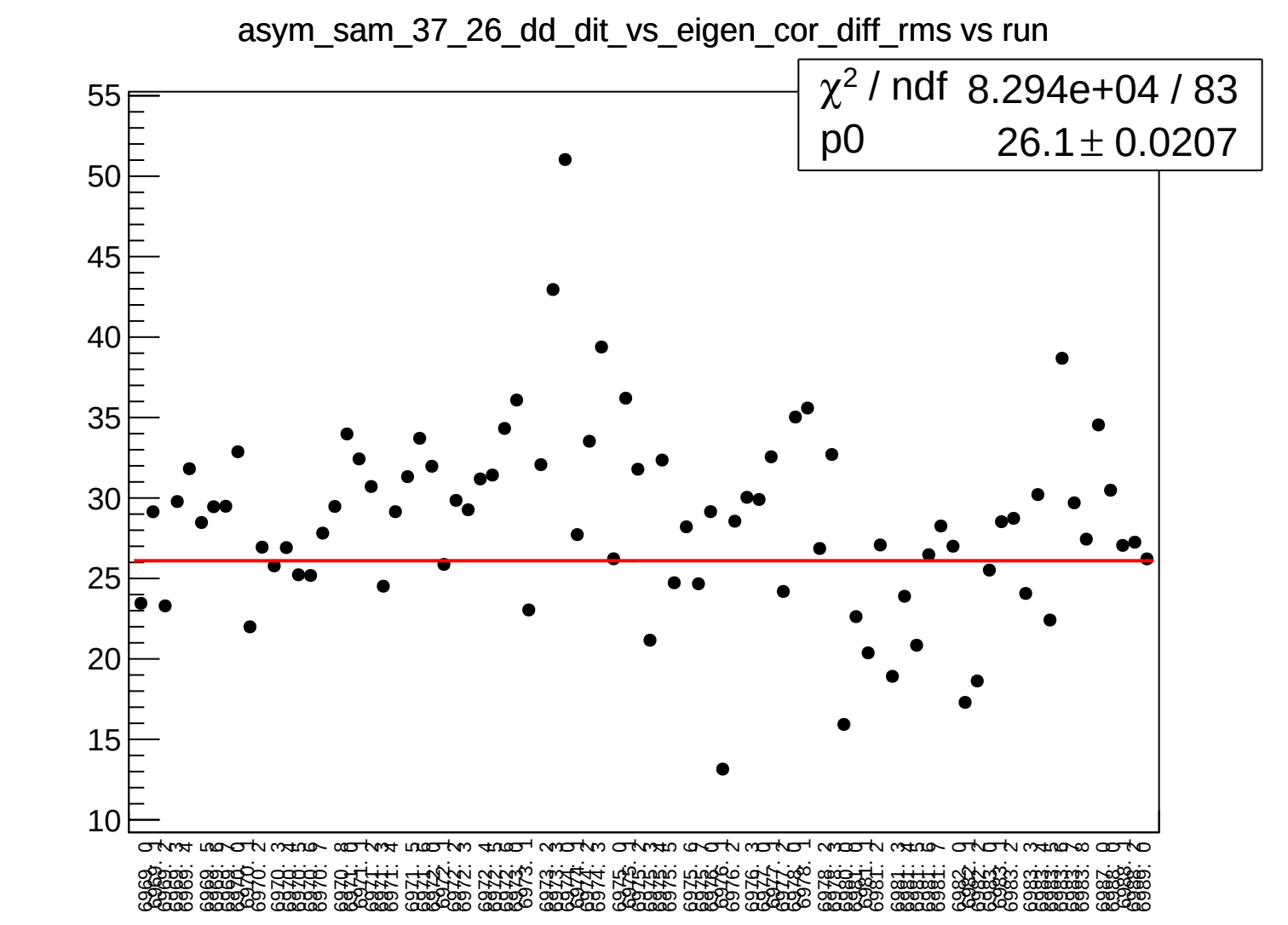

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.37 / 83
p0 −0.04255 ± 0.02927
pull
Entries 84
Mean −86.2
Std Dev 0

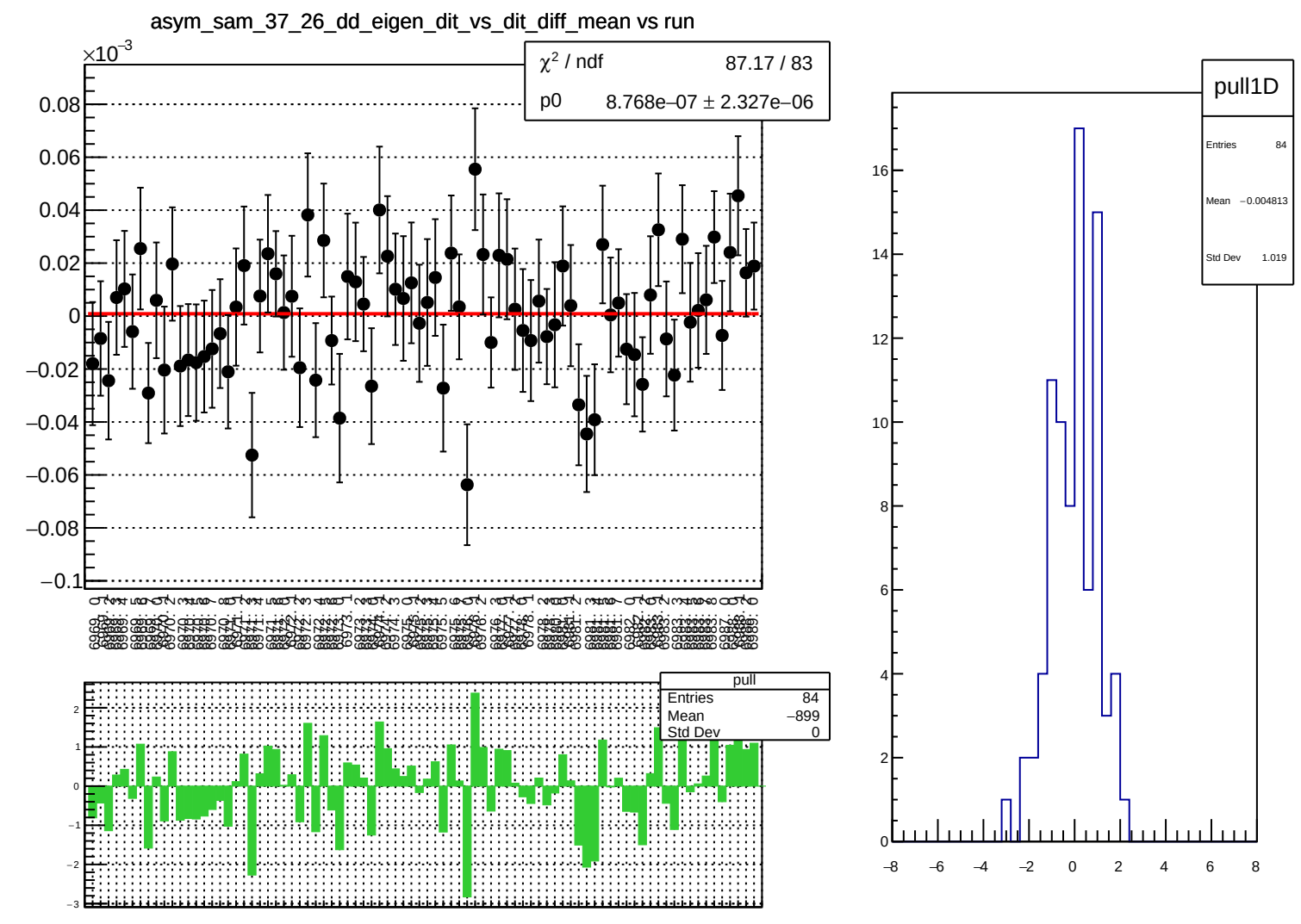

pull1D
Entries 84
Mean −0.0413
Std Dev 1.076

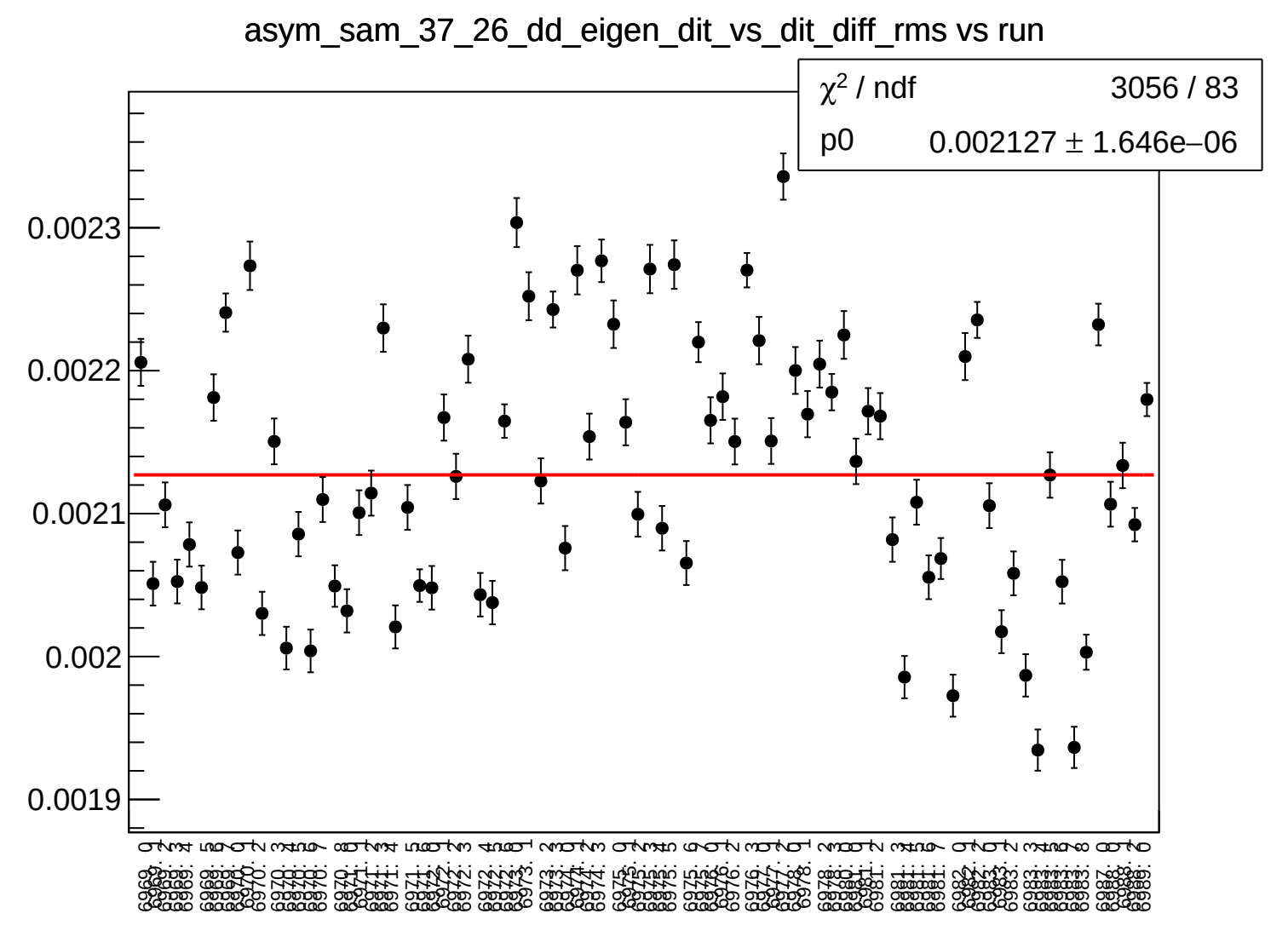

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.294e+04 / 83
p0 26.1 ± 0.0207
55
50
45
40
35
30
25
20
15
10

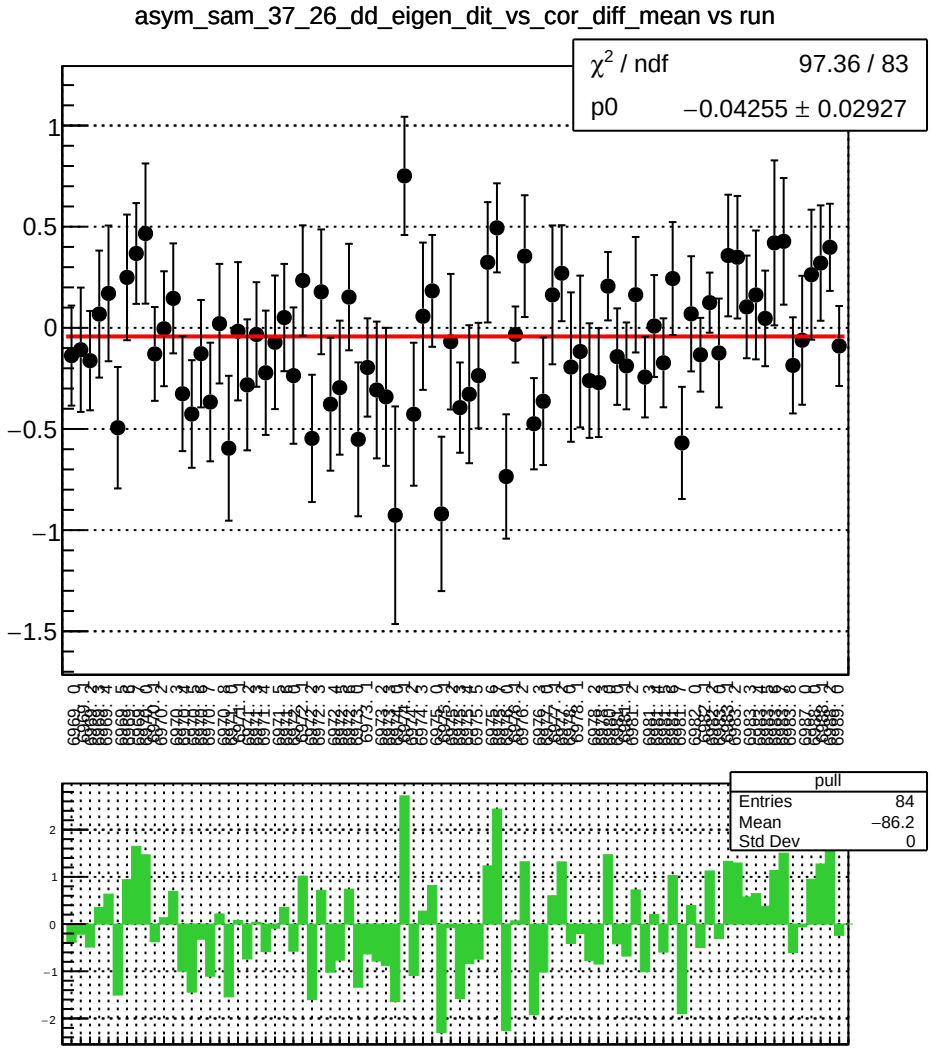

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.37 / 83
p0 −0.04255 ± 0.02927
pull
Entries 84
Mean −86.2
Std Dev 0

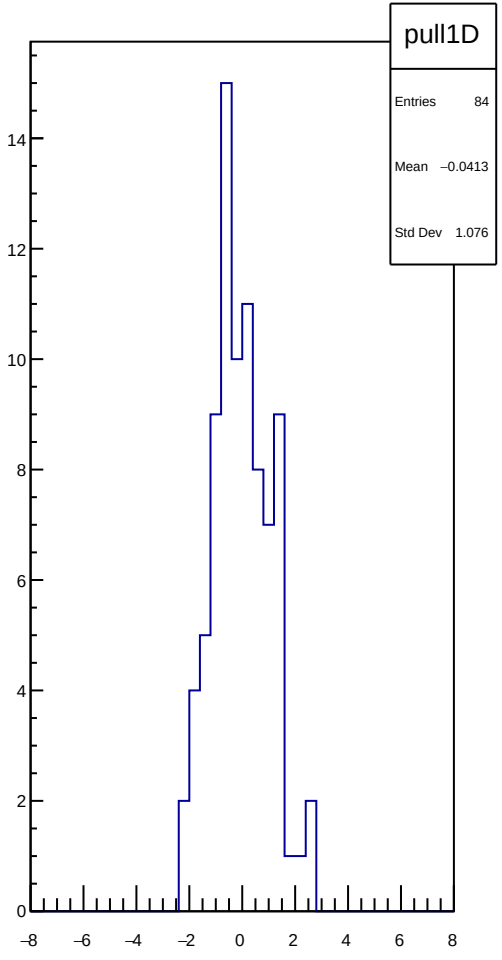

pull1D
Entries 84
Mean −0.0413
Std Dev 1.076

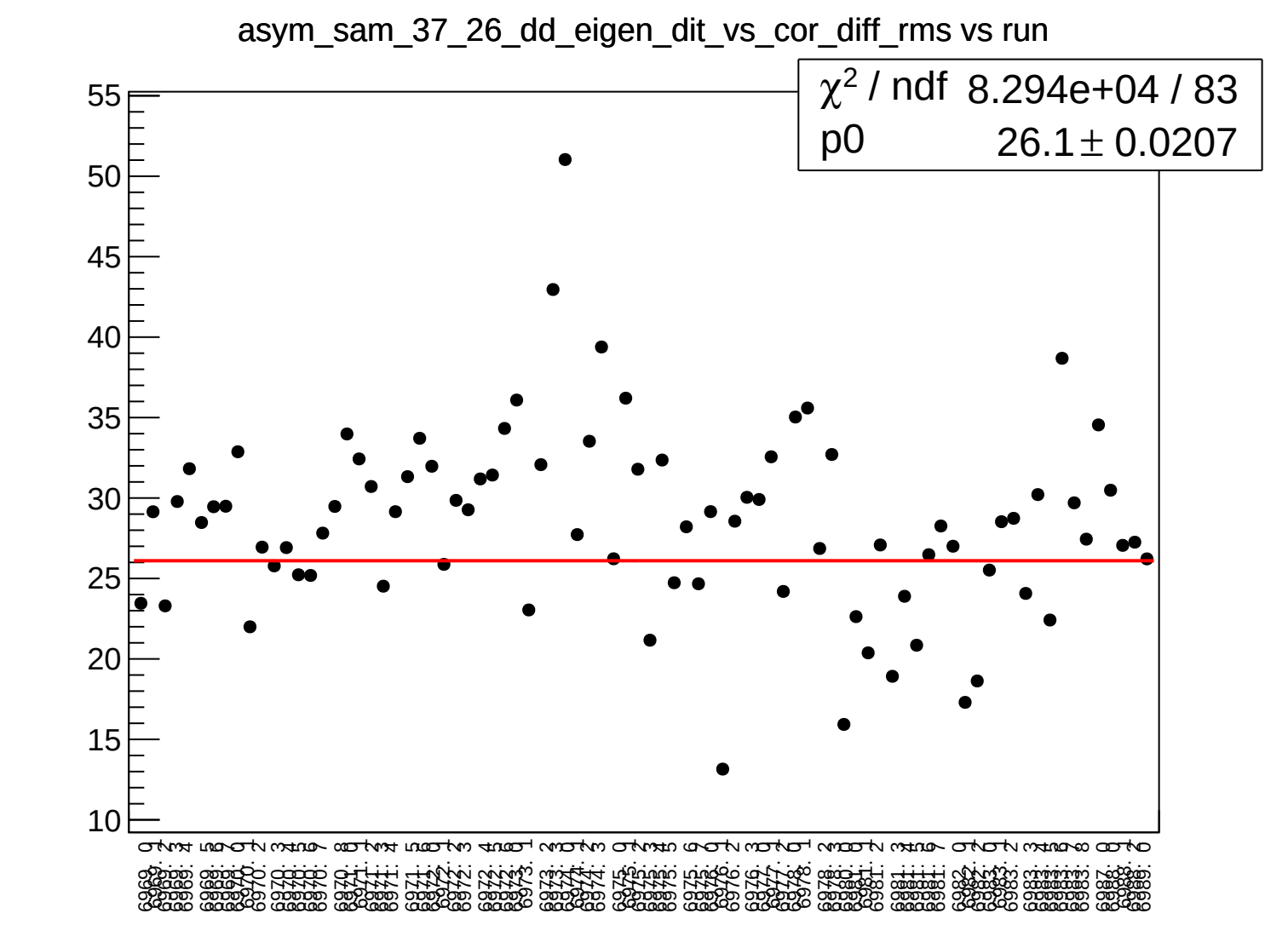

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.294e+04 / 83
p0 26.1 ± 0.0207
55
50
45
40
35
30
25
20
15
10

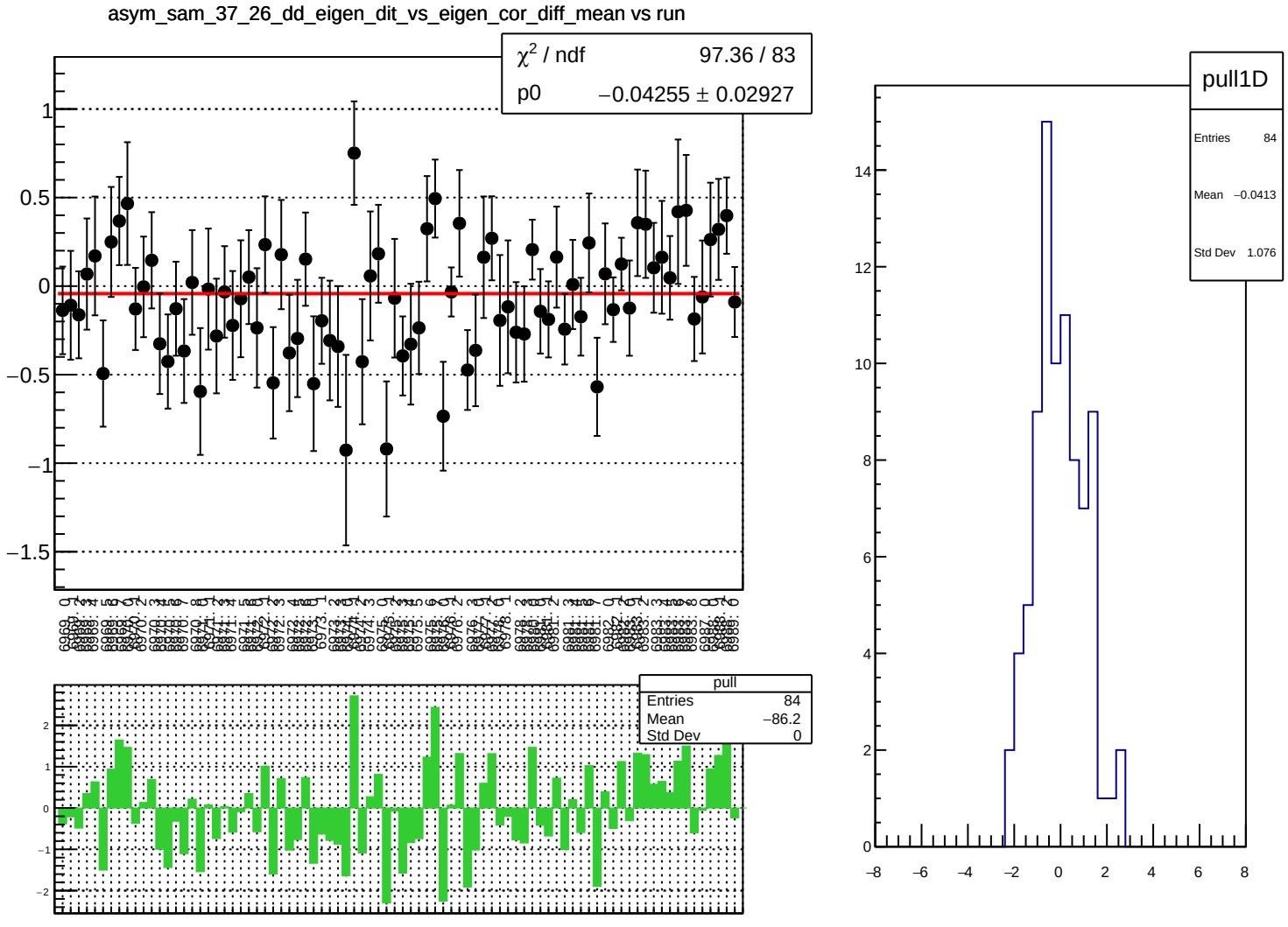

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 87.17 / 83
p0 8.768e−07 ± 2.327e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 84
Mean −899
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.004813
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

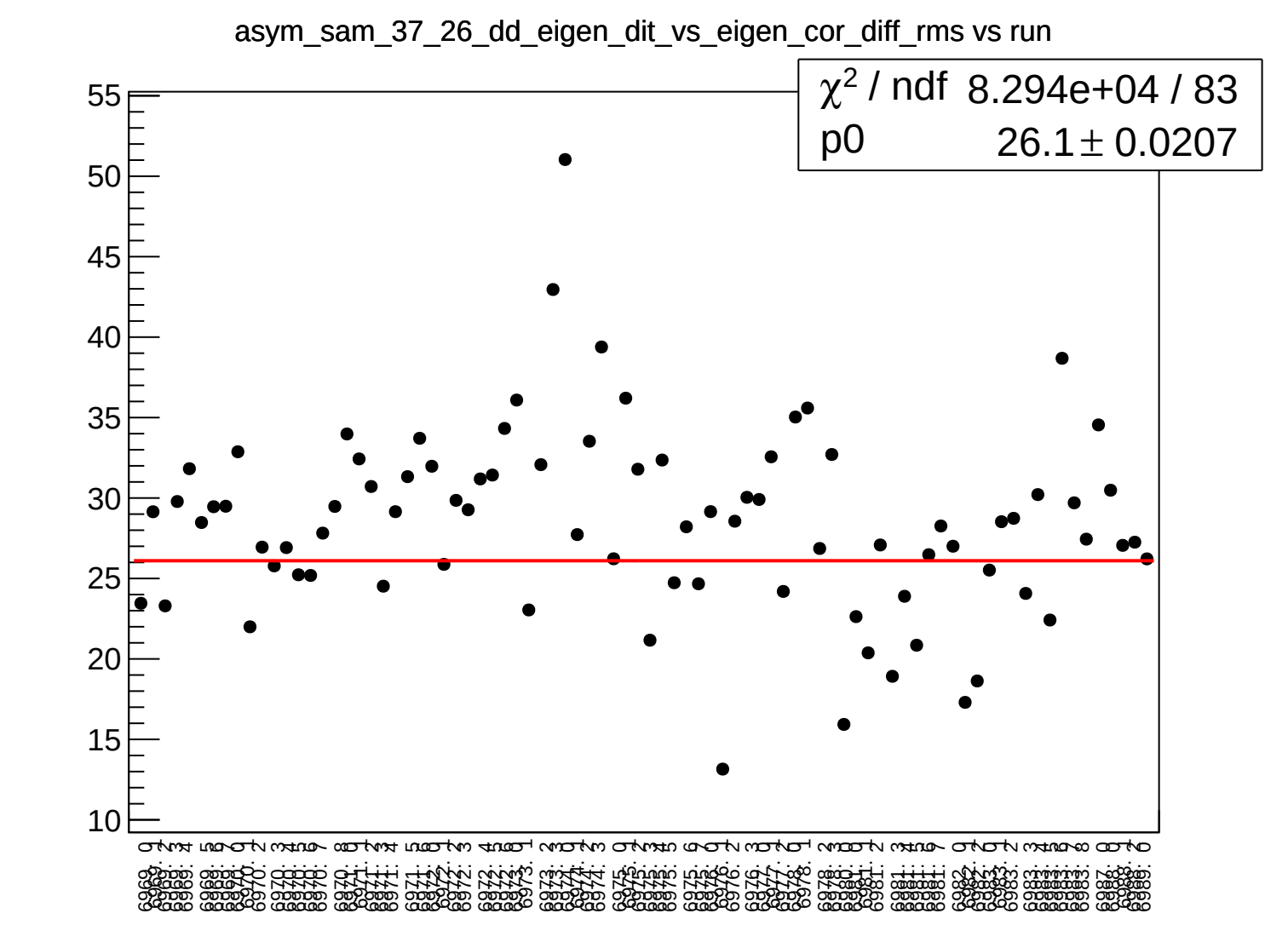

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3056 / 83
p0 0.002127 ± 1.646e−06
0.0023
0.0022
0.0021
0.002
0.0019

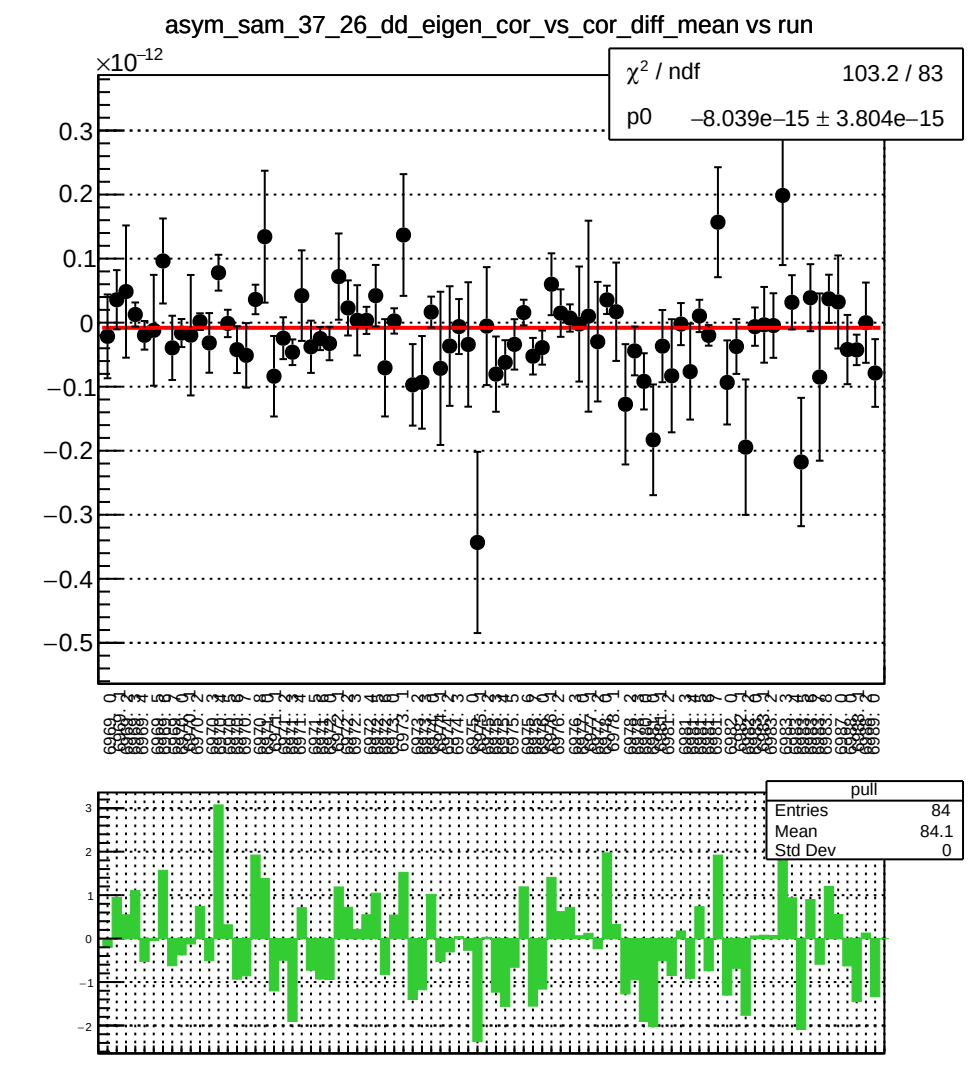

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.36 / 83
p0 −0.04255 ± 0.02927
pull
Entries 84
Mean −86.2
Std Dev 0

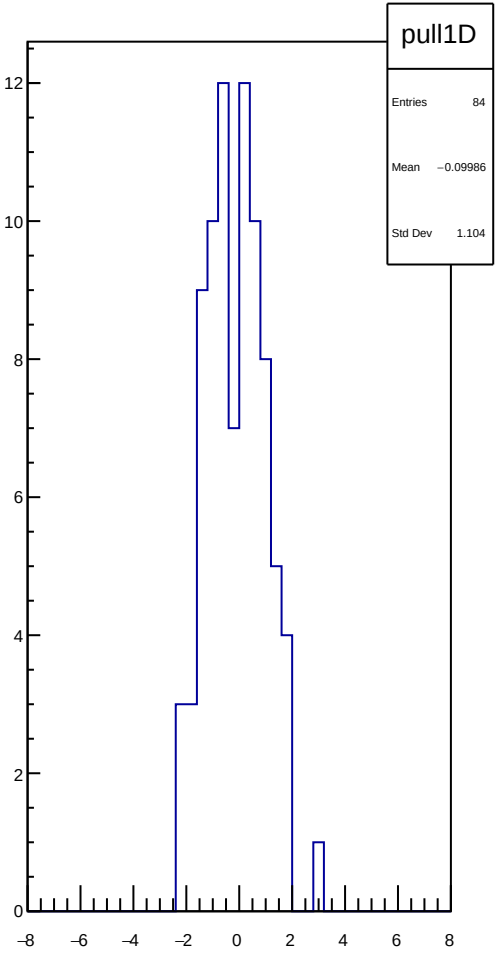

pull1D
Entries 84
Mean −0.0413
Std Dev 1.076

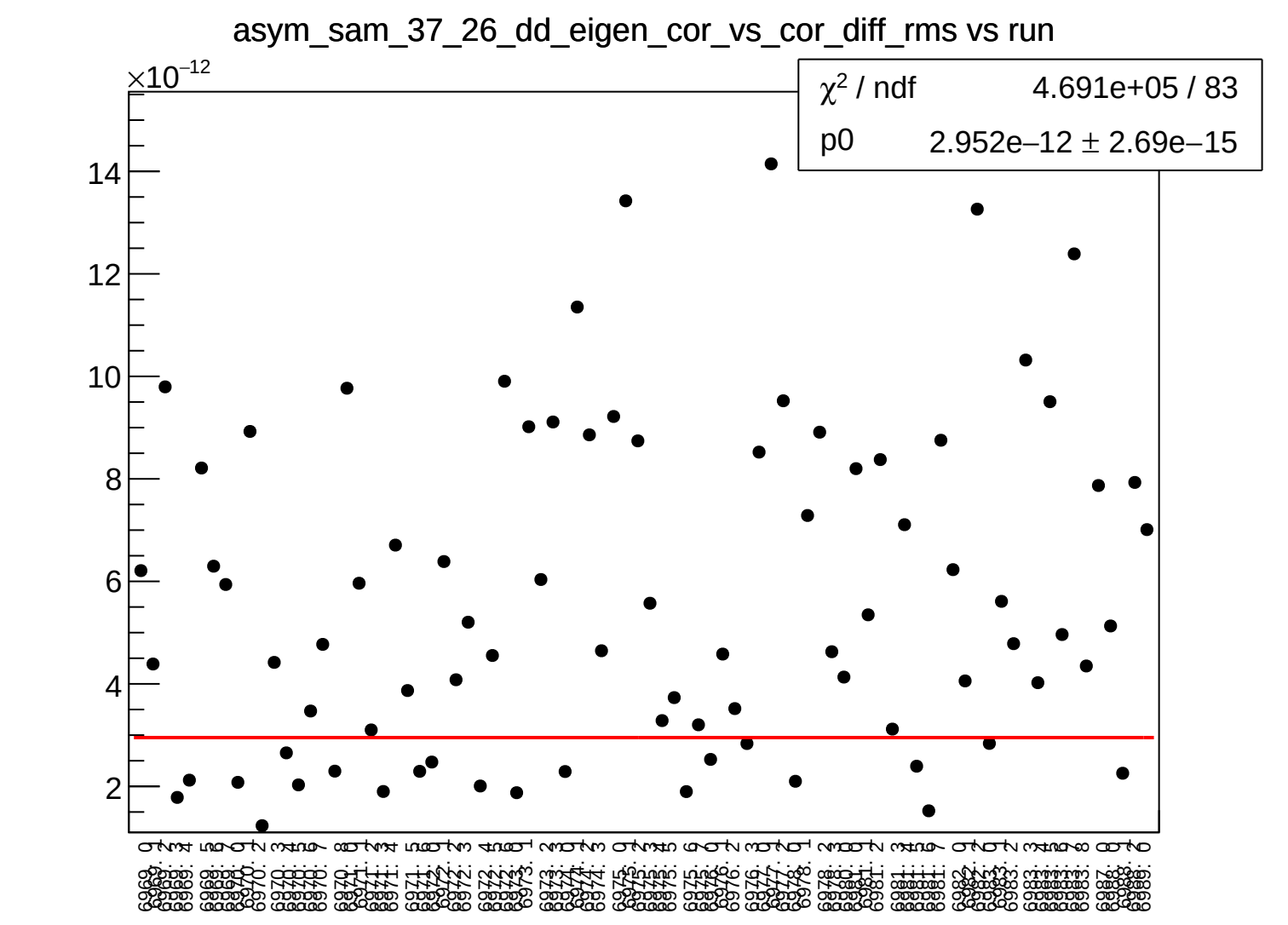

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.294e+04 / 83
p0 26.1 ± 0.0207
55
50
45
40
35
30
25
20
15
10

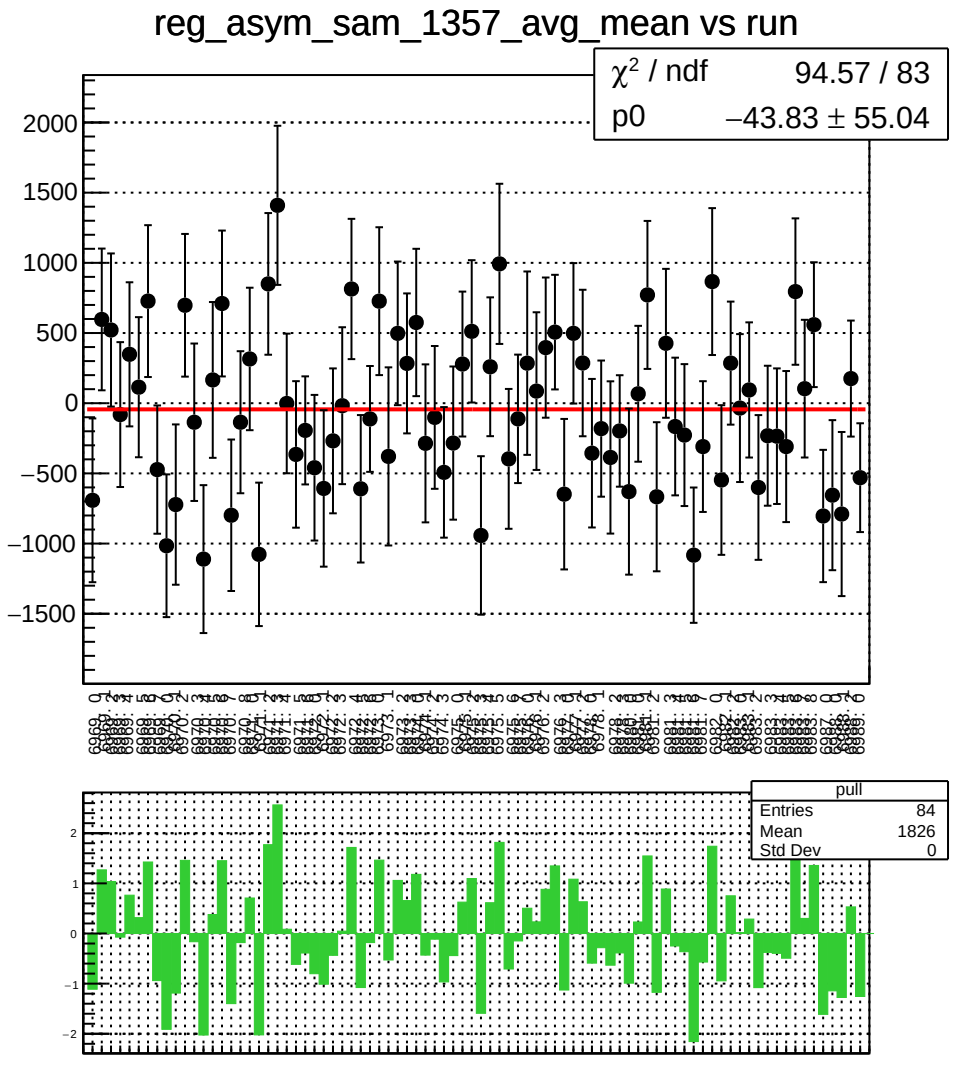

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.36 / 83
p0 −0.04255 ± 0.02927
pull
Entries 84
Mean −86.2
Std Dev 0
pull1D
Entries 84
Mean −0.0413
Std Dev 1.076

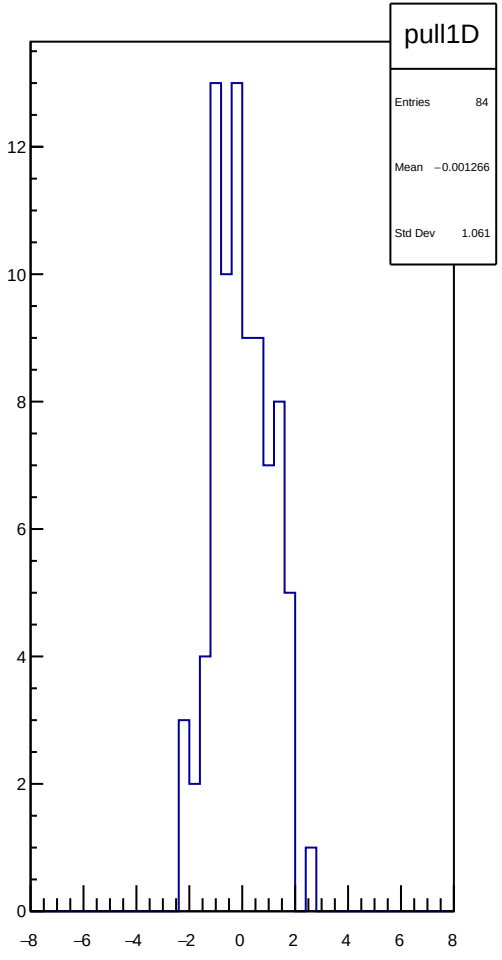

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.294e+04 / 83
p0 26.1 ± 0.0207
55
50
45
40
35
30
25
20
15
10

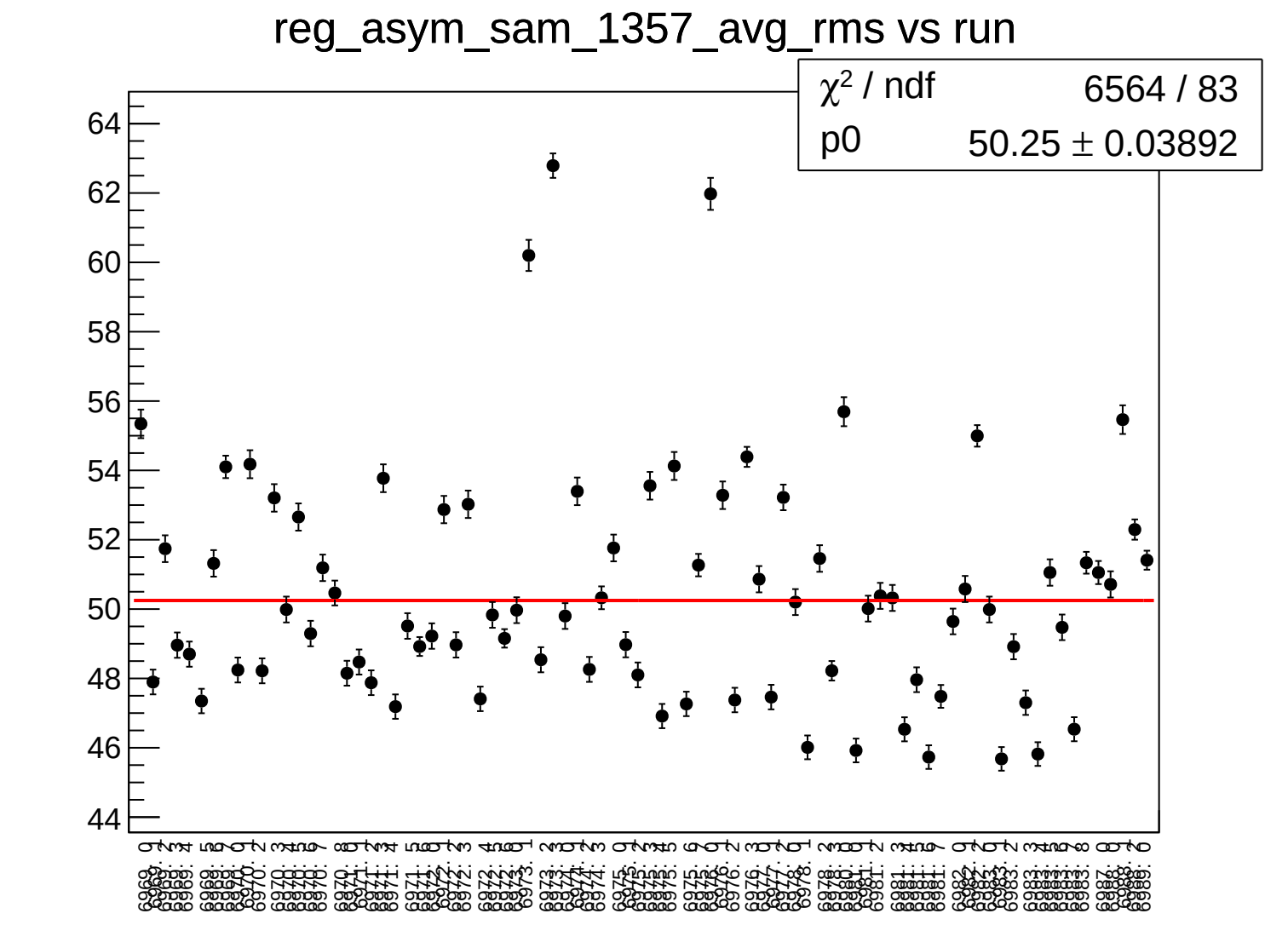

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.2 / 83
p0 −8.039e−15 ± 3.804e−15
pull
Entries 84
Mean 84.1
Std Dev 0

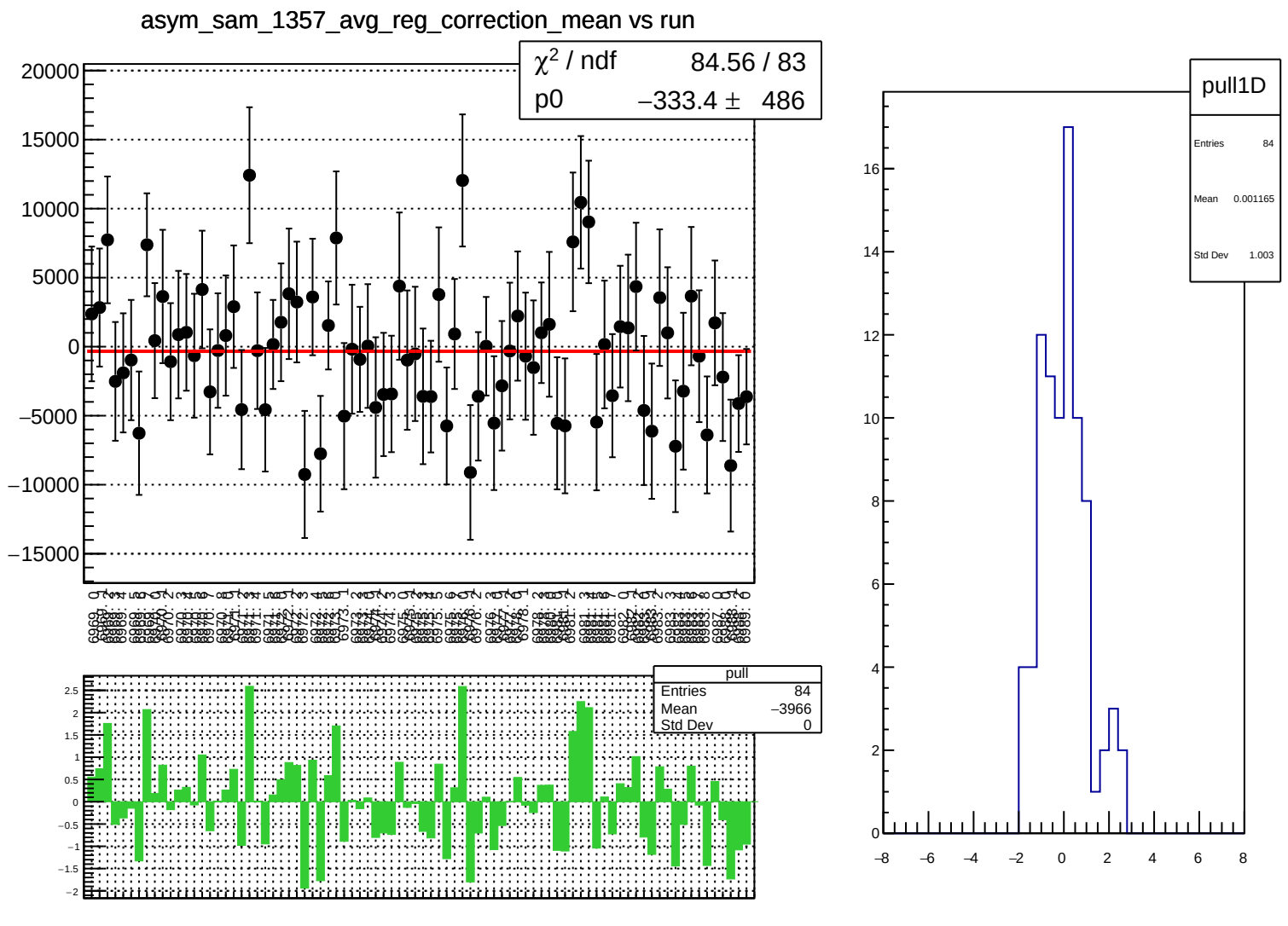

pull1D
Entries 84
Mean −0.09986
Std Dev 1.104

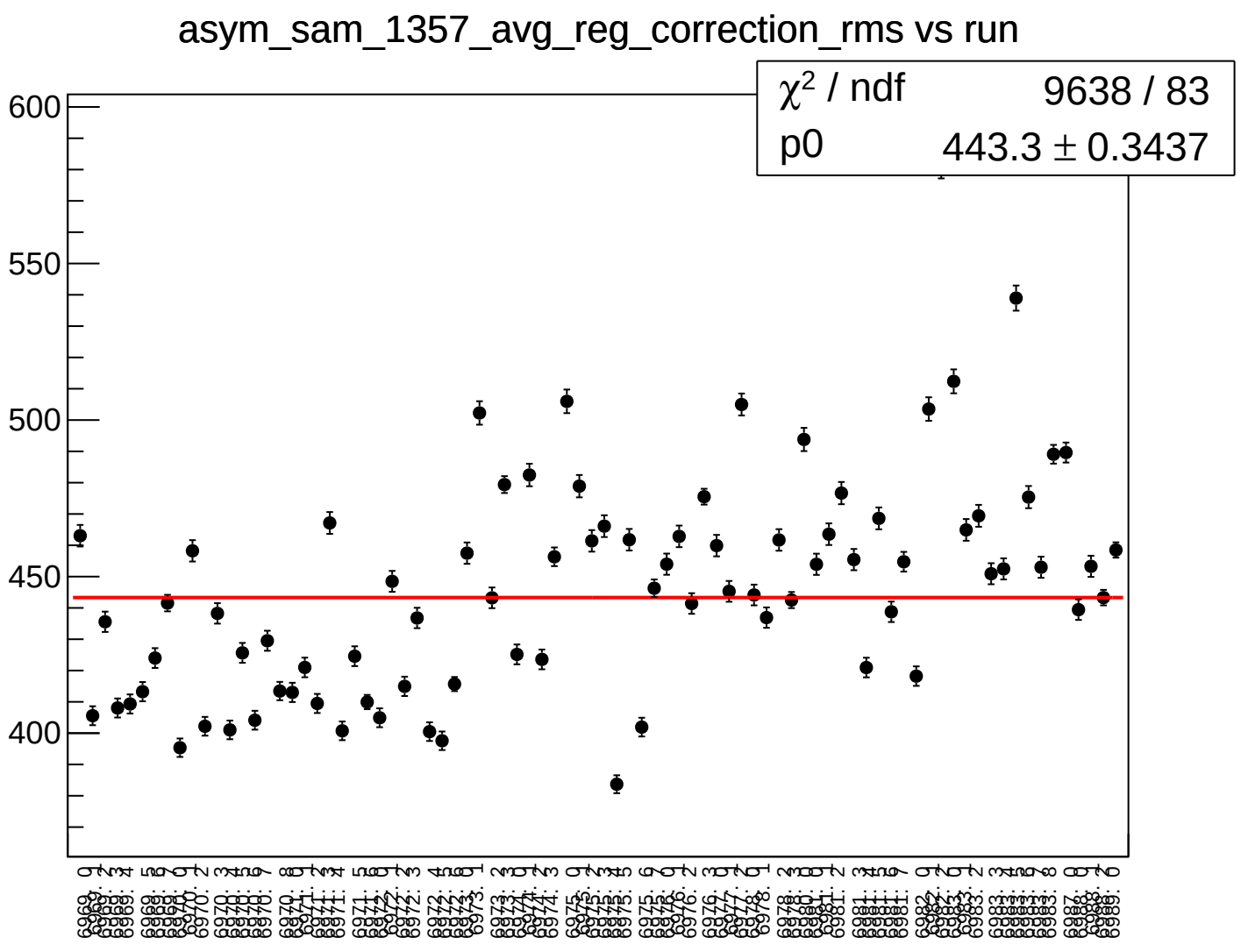

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.691e+05 / 83
p0 2.952e−12 ± 2.69e−15
14
12
10
8
6
4
2

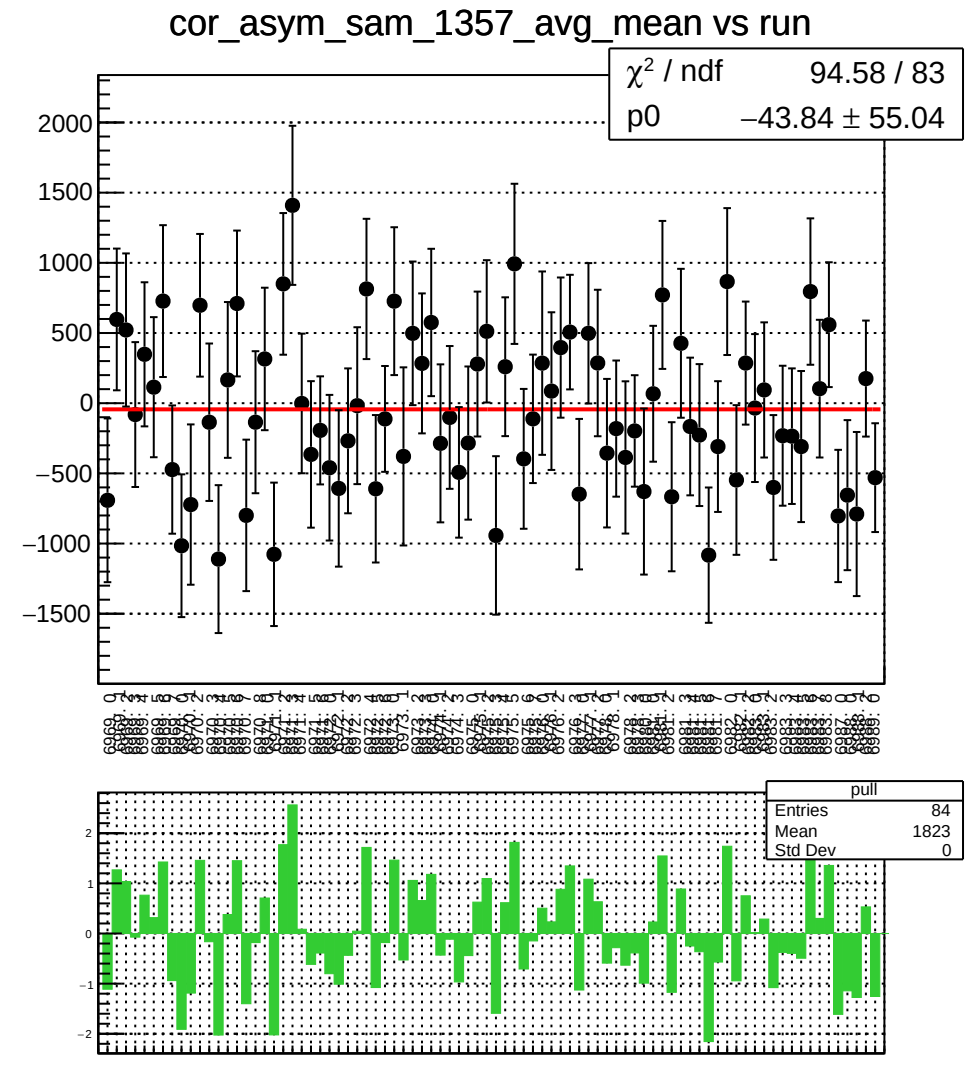

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 94.57 / 83
p0 −43.83 ± 55.04
pull
Entries 84
Mean 1826
Std Dev 0

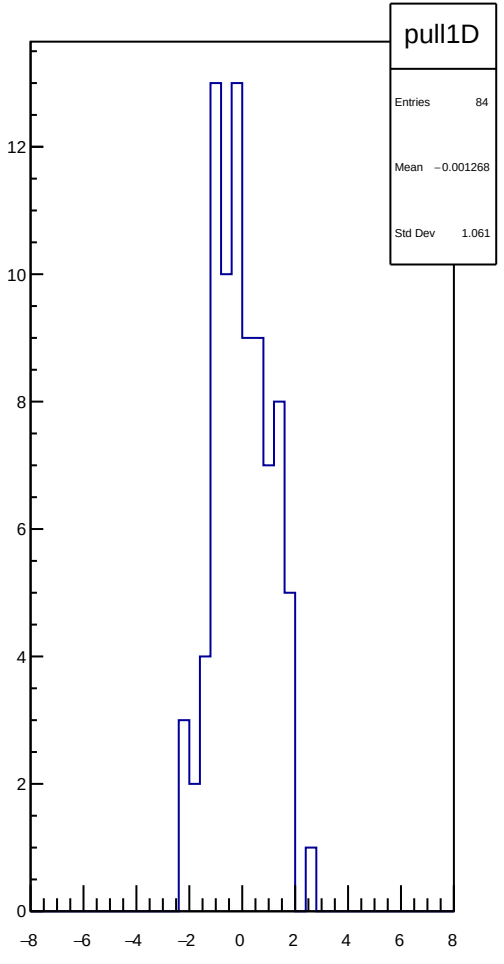

pull1D
Entries 84
Mean −0.001266
Std Dev 1.061

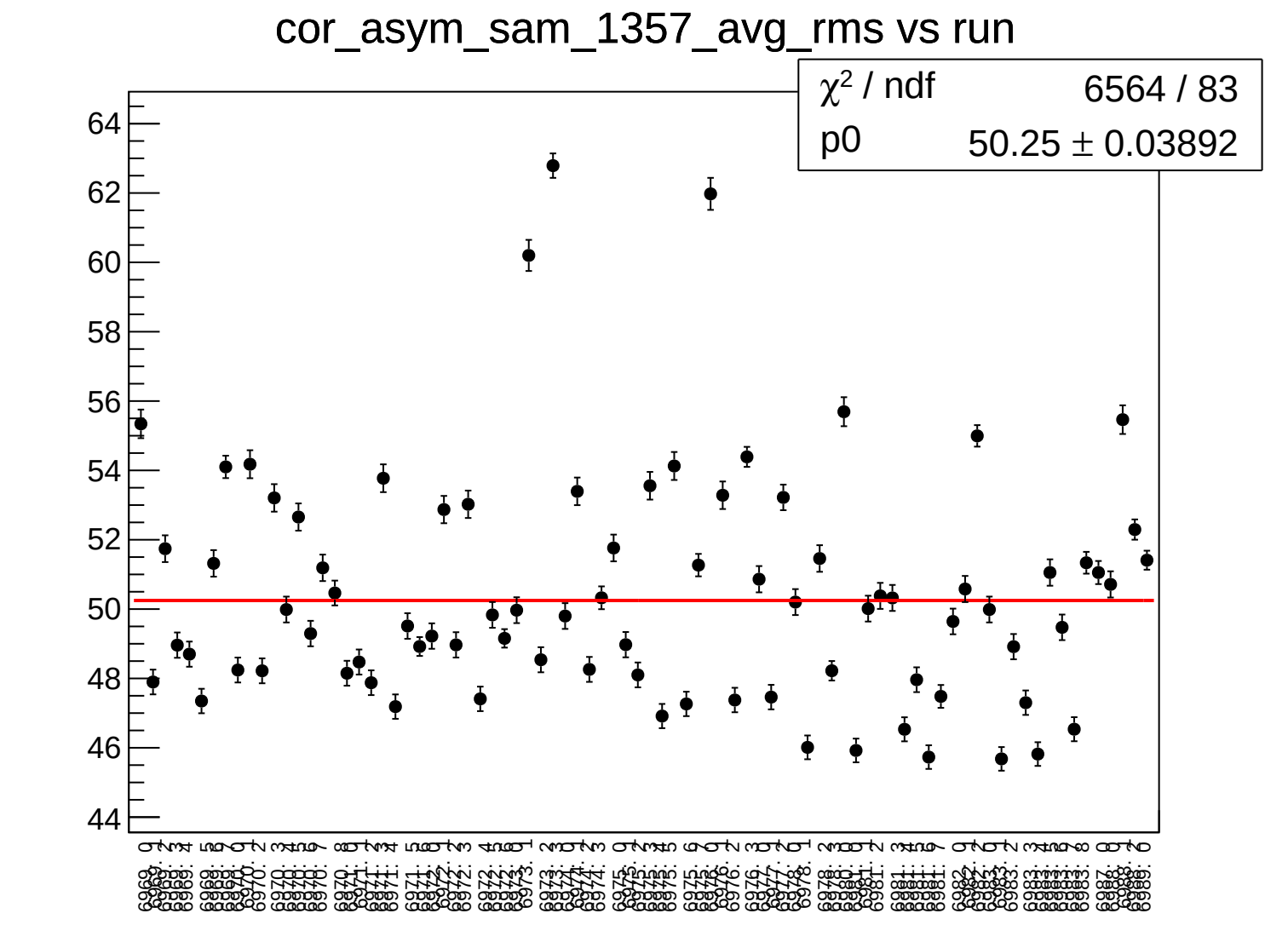

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 6564 / 83
p0 50.25 ± 0.03892
64
62
60
58
56
54
52
50
48
46
44

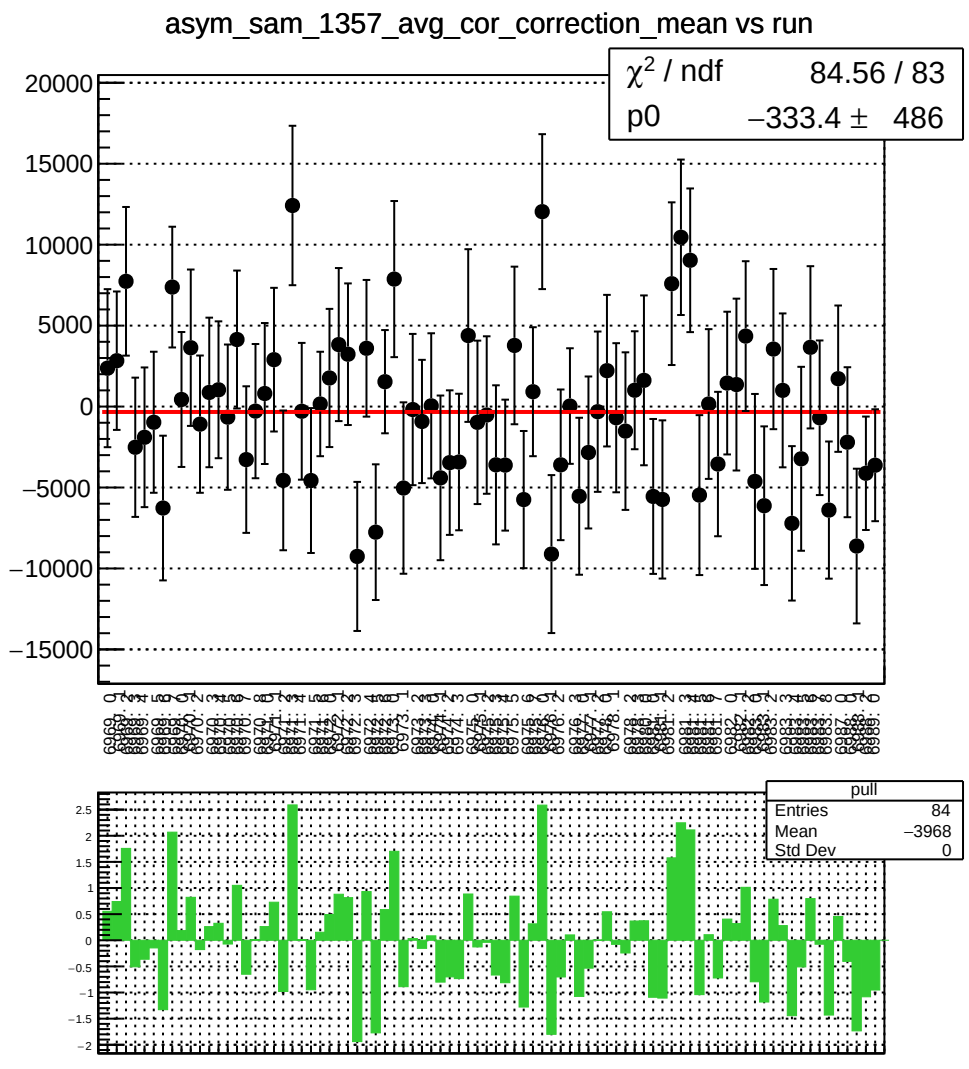

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 84.56 / 83
p0 −333.4 ± 486
pull
Entries 84
Mean −3966
Std Dev 0
pull1D
Entries 84
Mean 0.001165
Std Dev 1.003

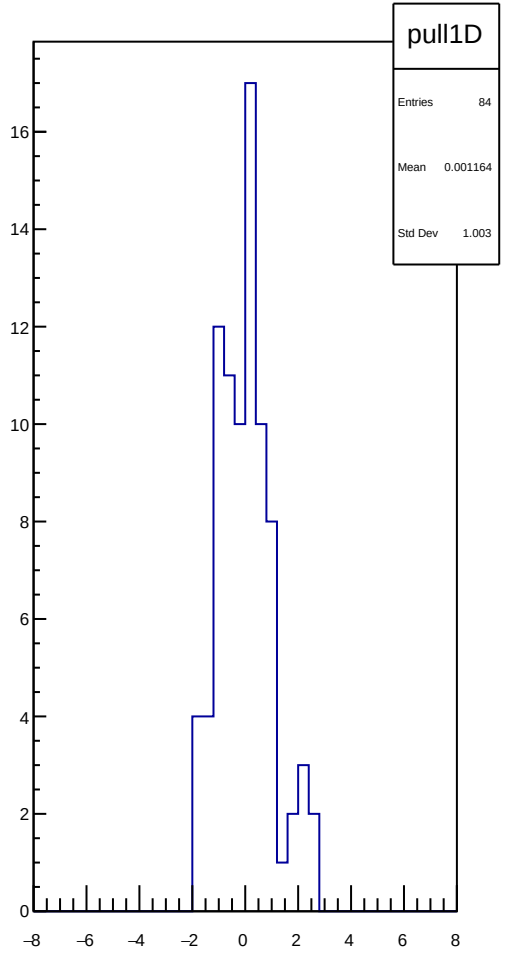

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 9638 / 83
p0 443.3 ± 0.3437
600
550
500
450
400

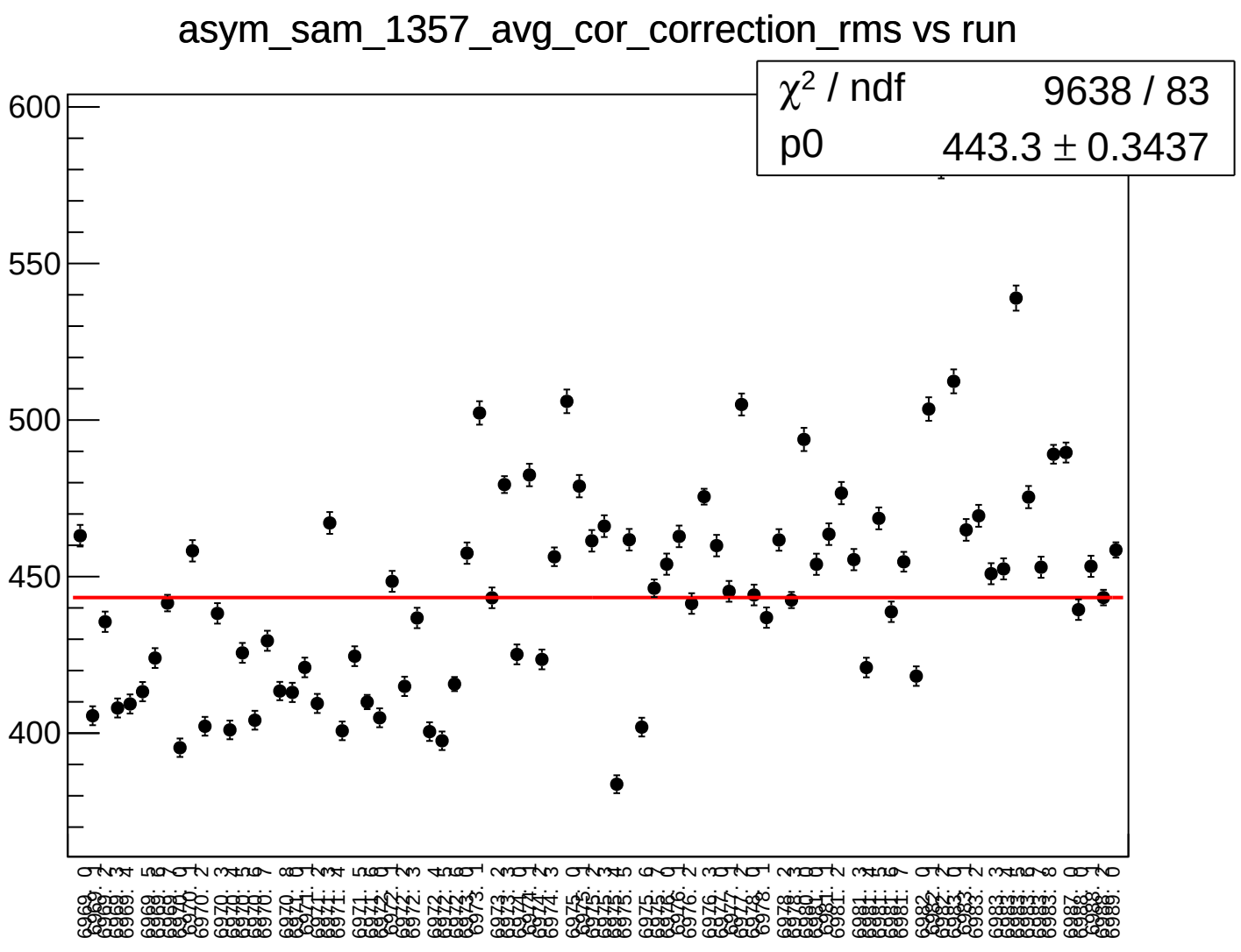

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 94.58 / 83
p0 −43.84 ± 55.04
pull
Entries 84
Mean 1823
Std Dev 0

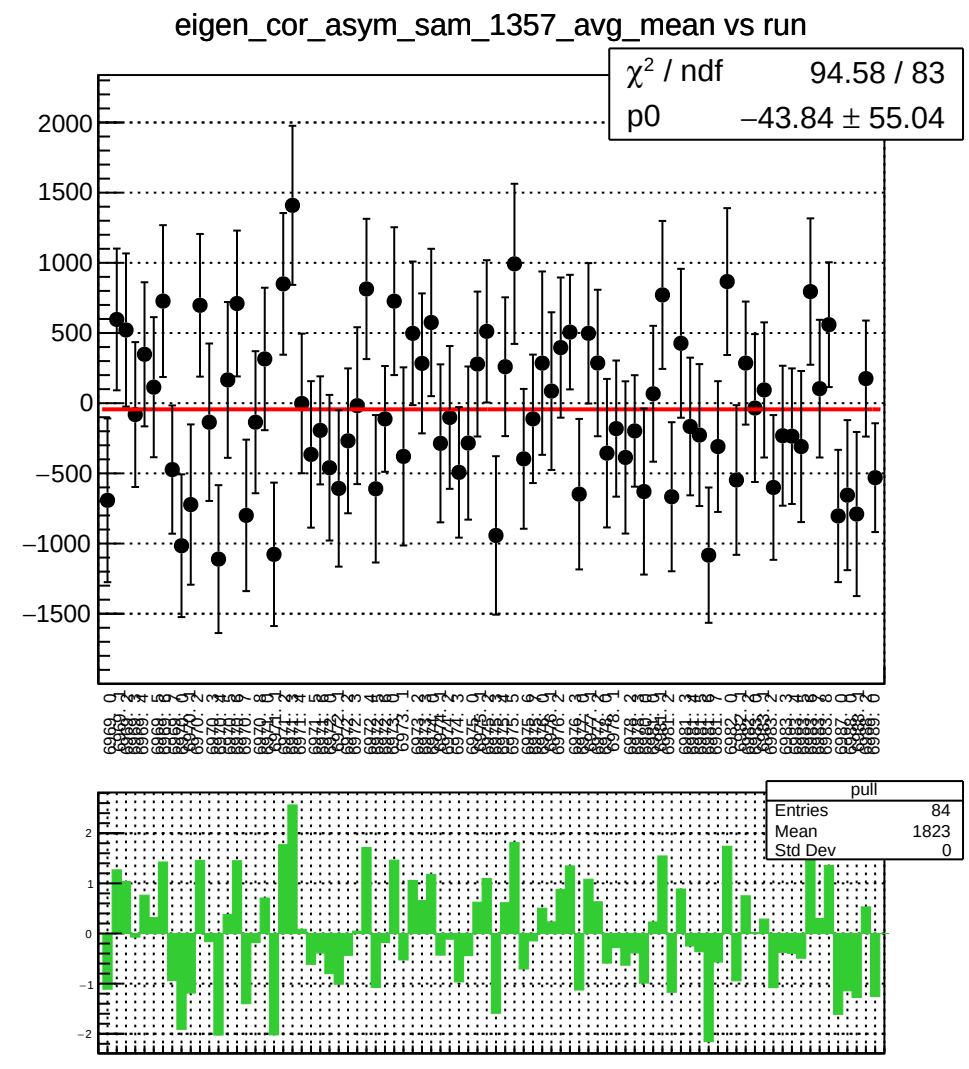

pull1D
Entries 84
Mean −0.001268
Std Dev 1.061

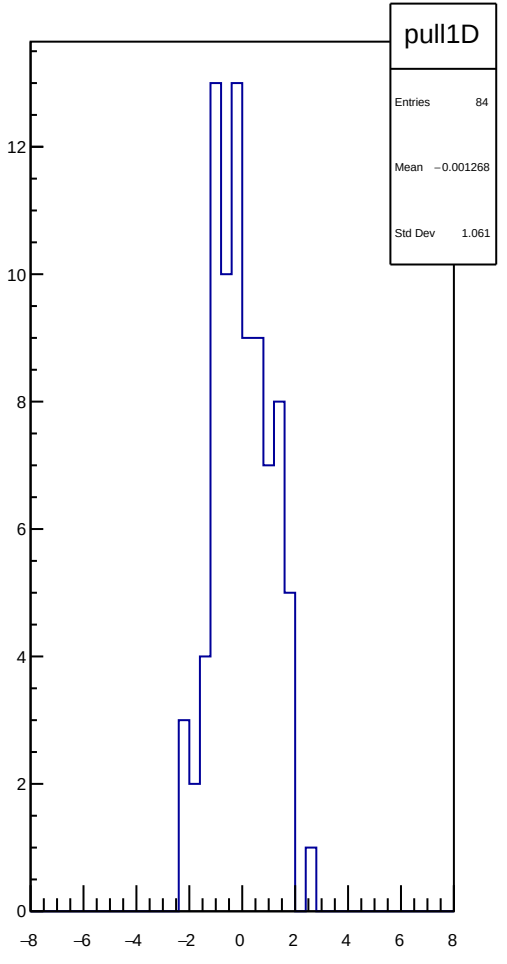

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 6564 / 83
p0 50.25 ± 0.03892
64
62
60
58
56
54
52
50
48
46
44

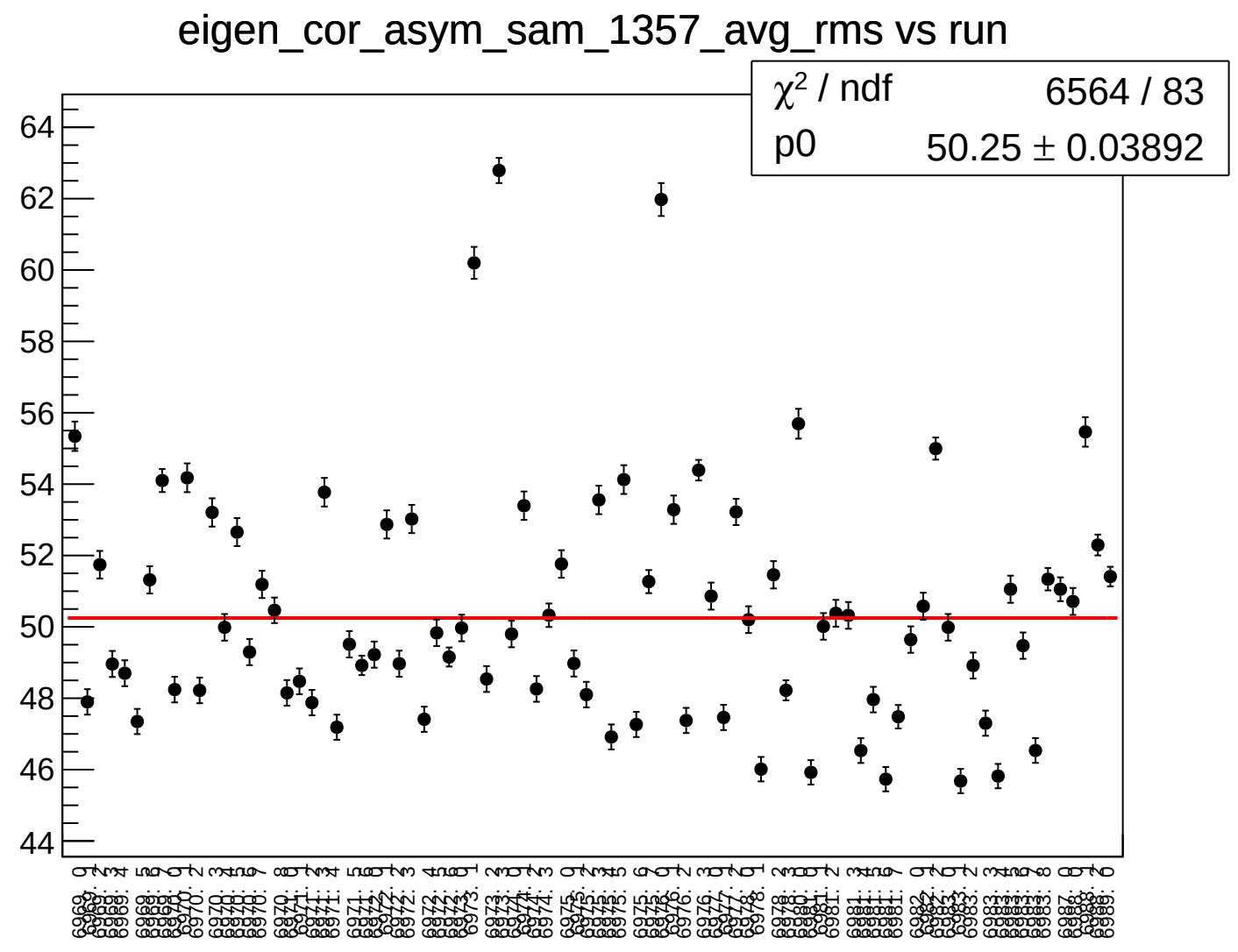

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 84.56 / 83
p0 −333.4 ± 486
pull
Entries 84
Mean −3968
Std Dev 0

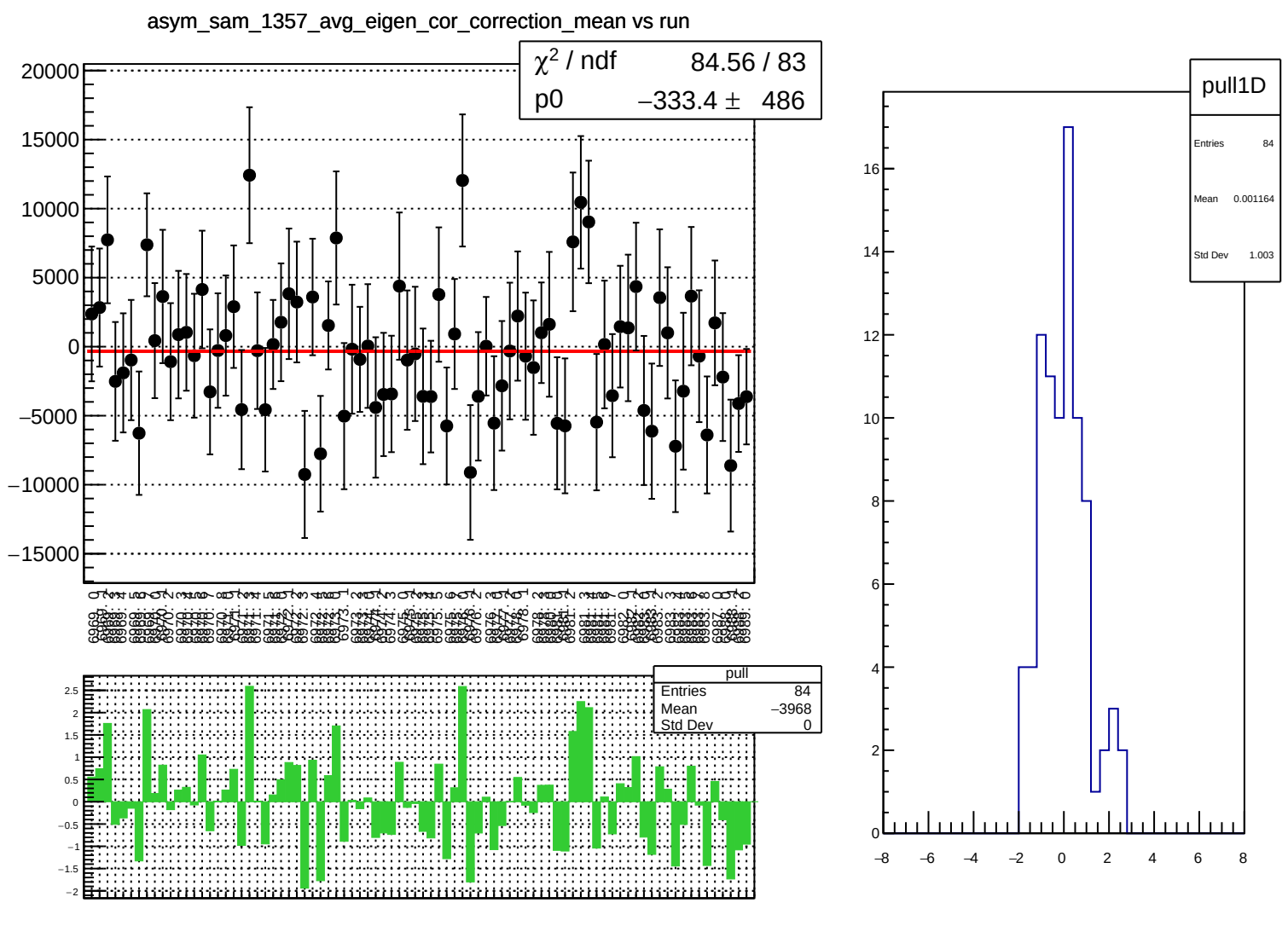

pull1D
Entries 84
Mean 0.001164
Std Dev 1.003

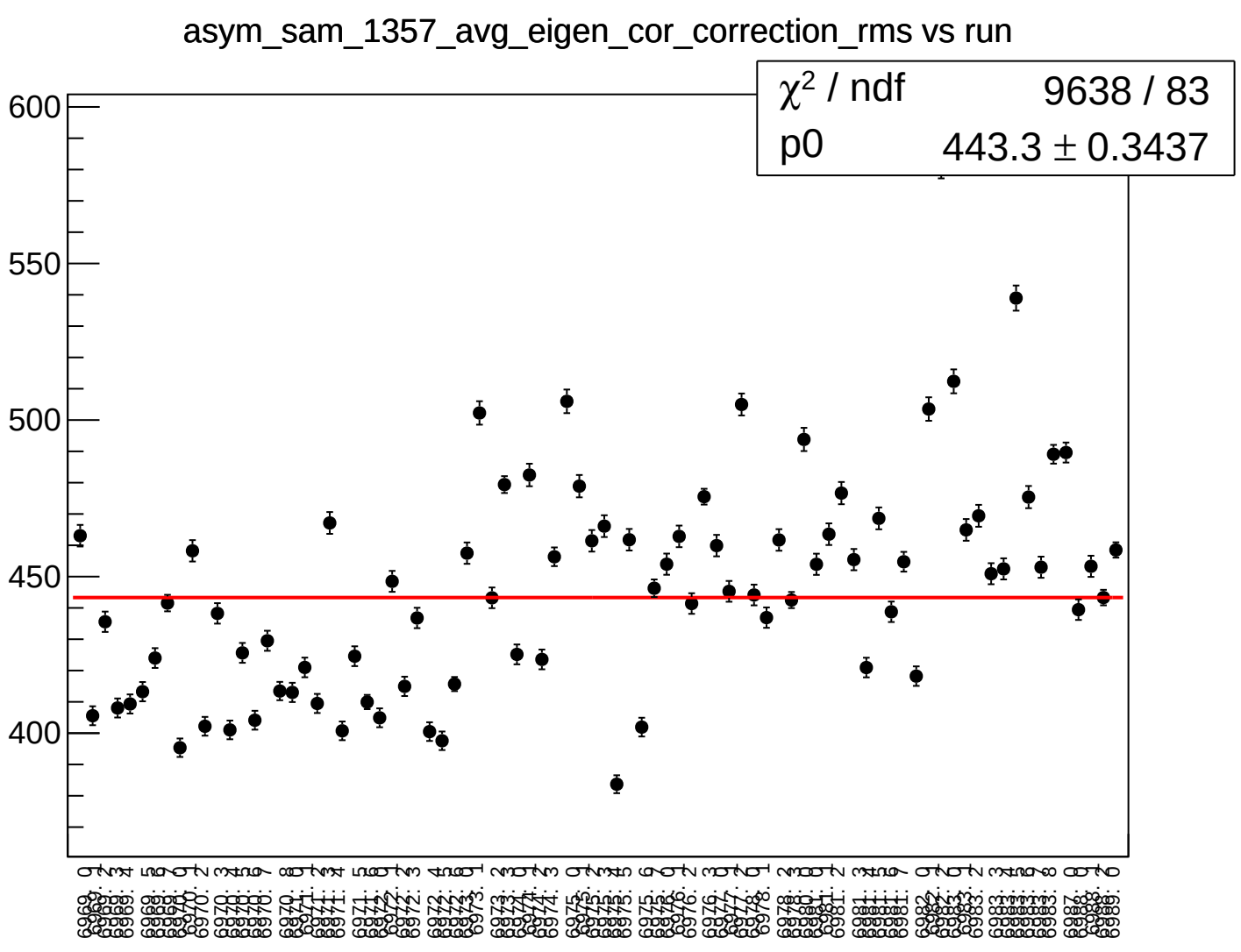

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 9638 / 83
p0 443.3 ± 0.3437
600
550
500
450
400

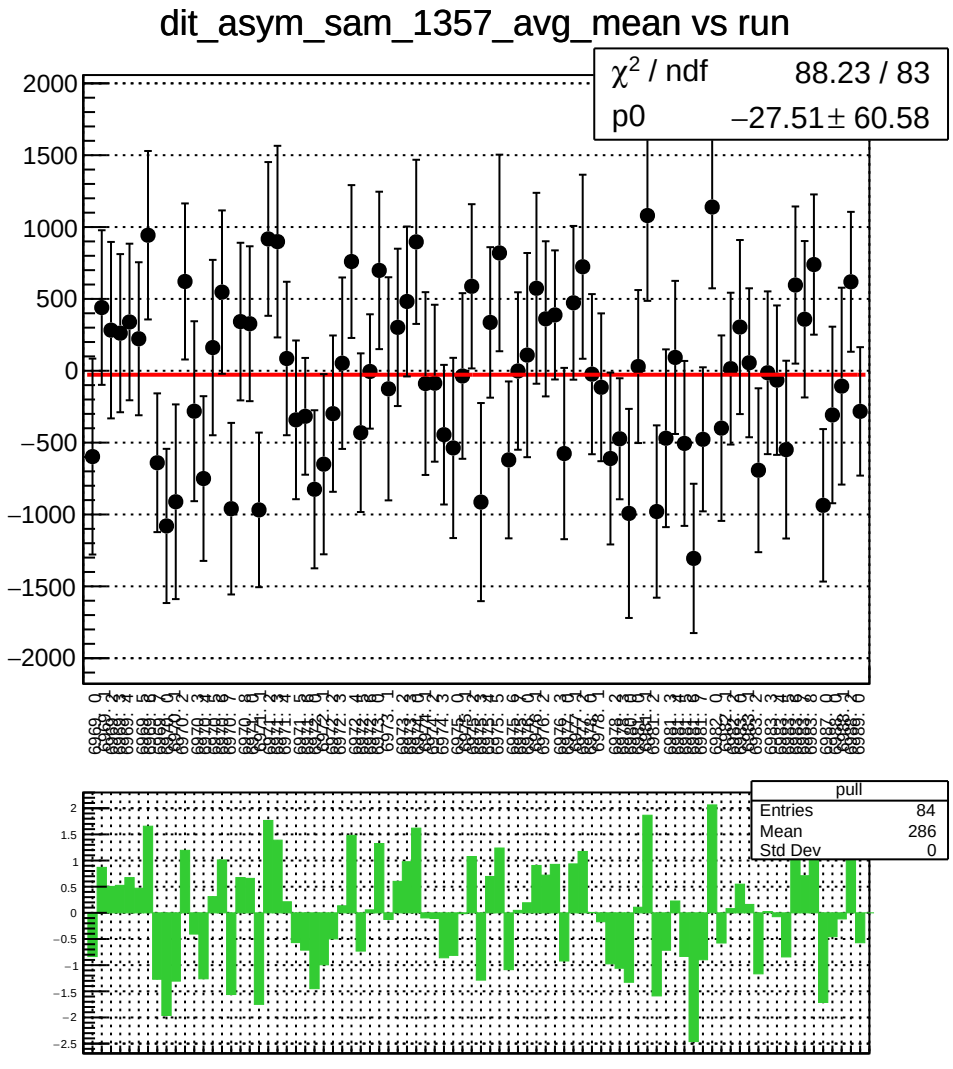

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 94.58 / 83
p0 −43.84 ± 55.04
pull
Entries 84
Mean 1823
Std Dev 0

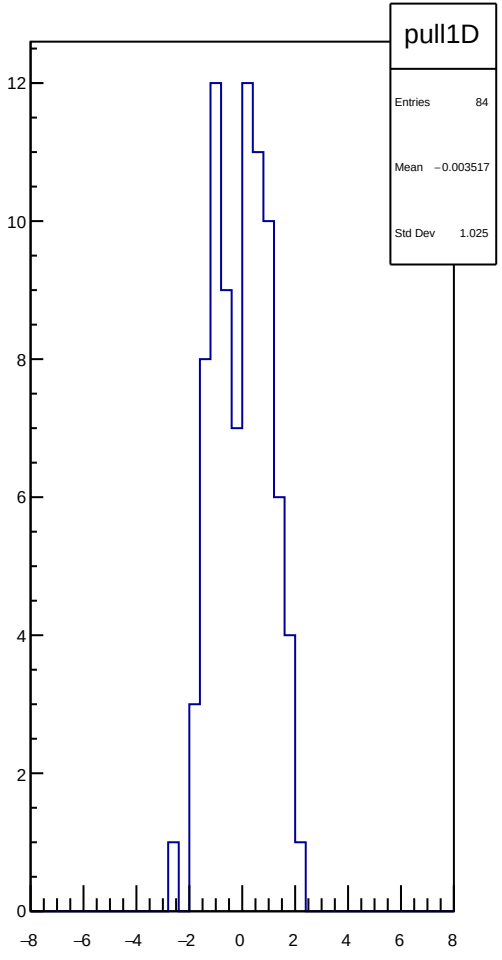

pull1D
Entries 84
Mean −0.001268
Std Dev 1.061

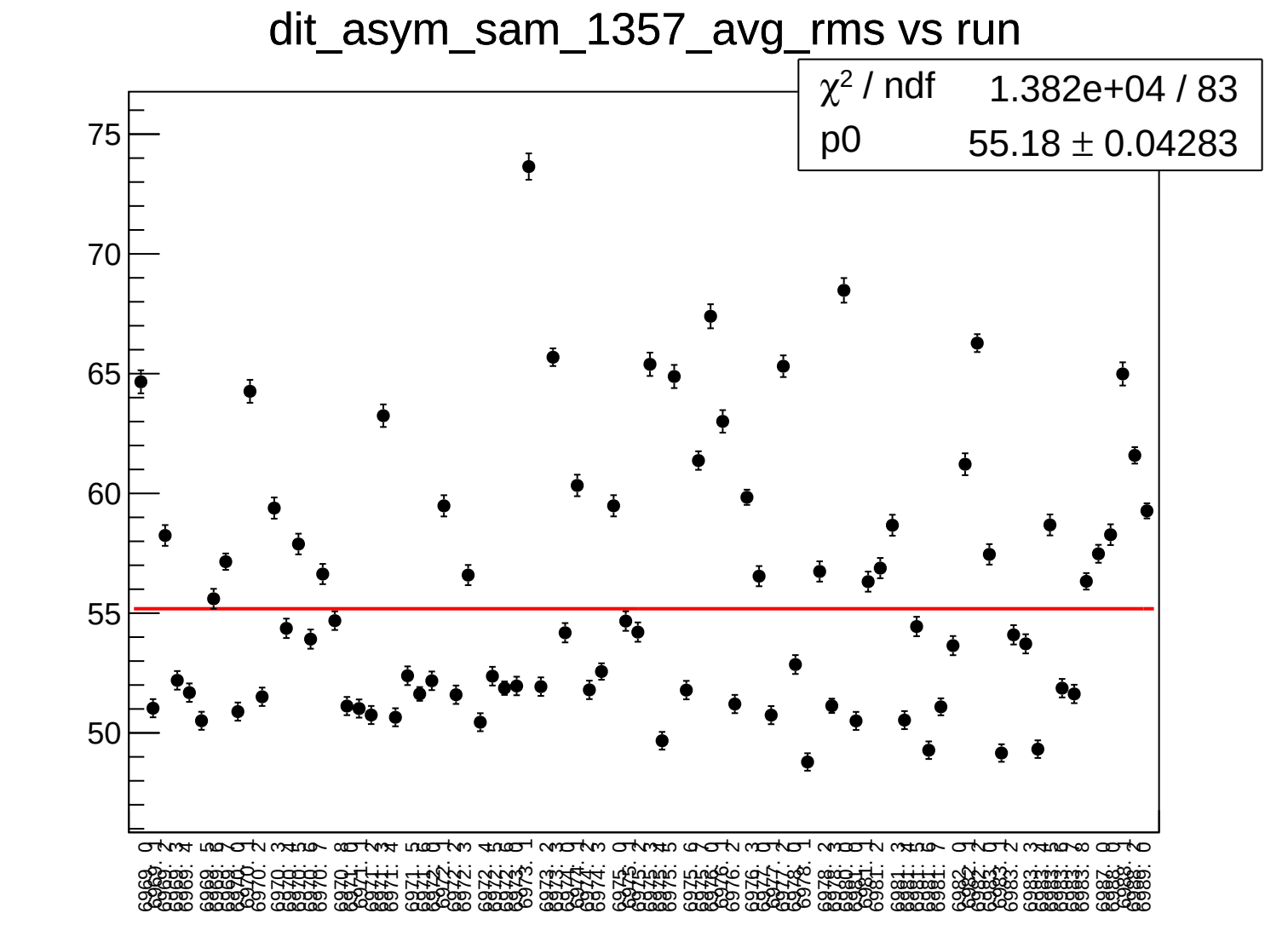

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 6564 / 83
p0 50.25 ± 0.03892
64
62
60
58
56
54
52
50
48
46
44

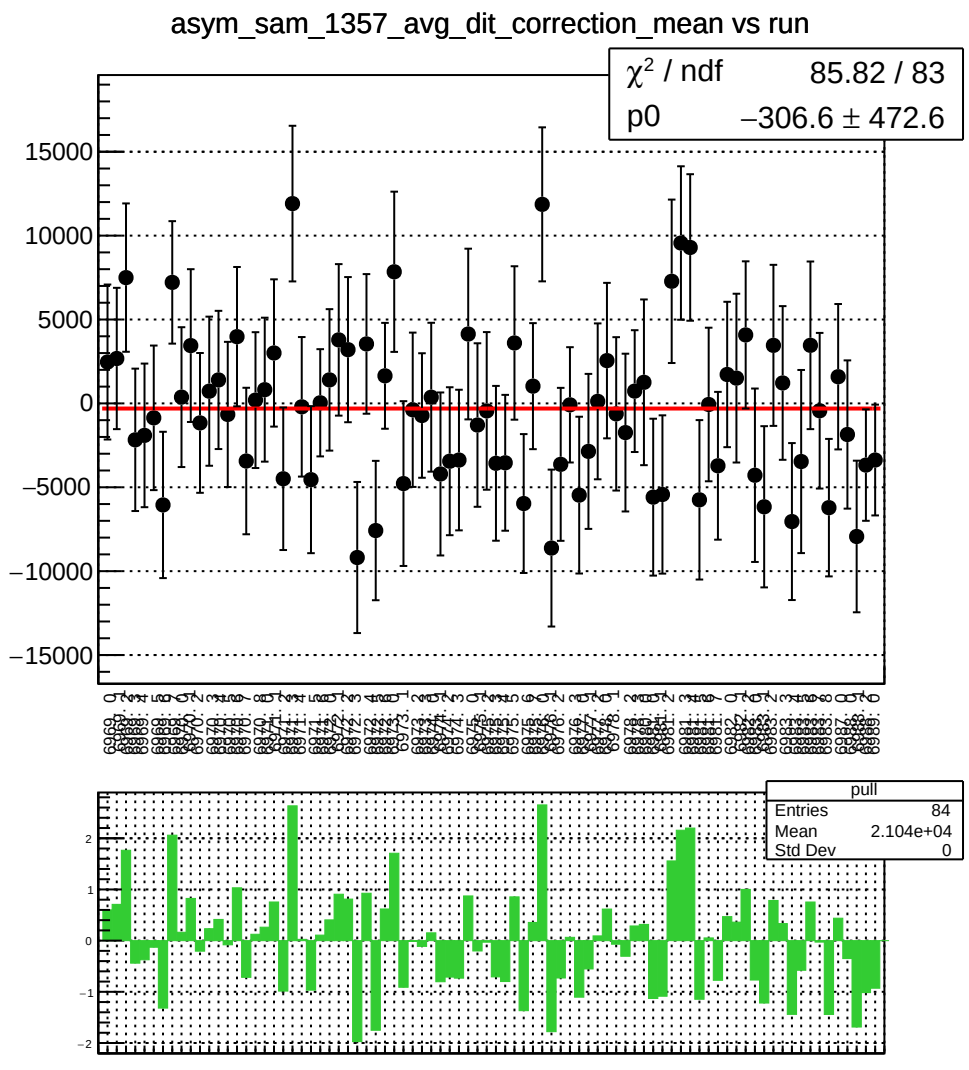

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.56 / 83
p0 −333.4 ± 486
pull
Entries 84
Mean −3968
Std Dev 0
pull1D
Entries 84
Mean 0.001164
Std Dev 1.003

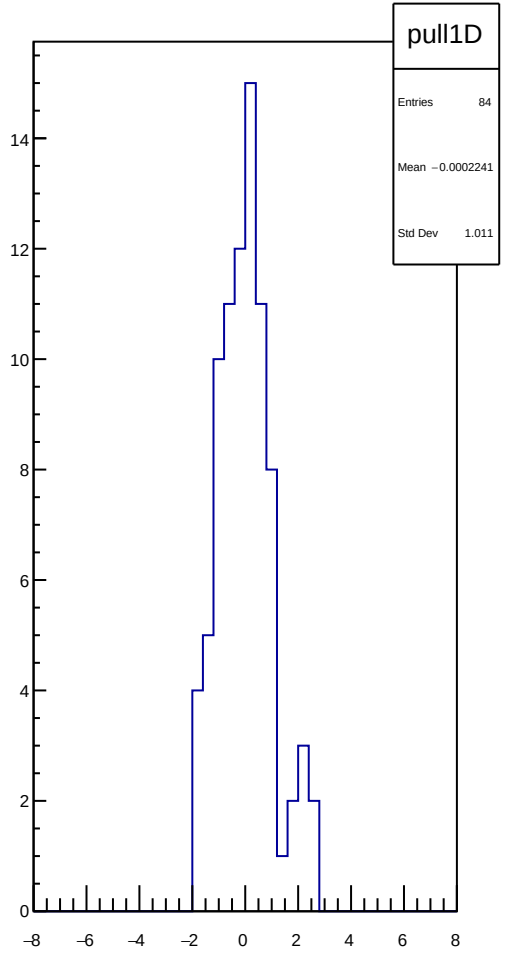

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 9638 / 83
p0 443.3 ± 0.3437
600
550
500
450
400

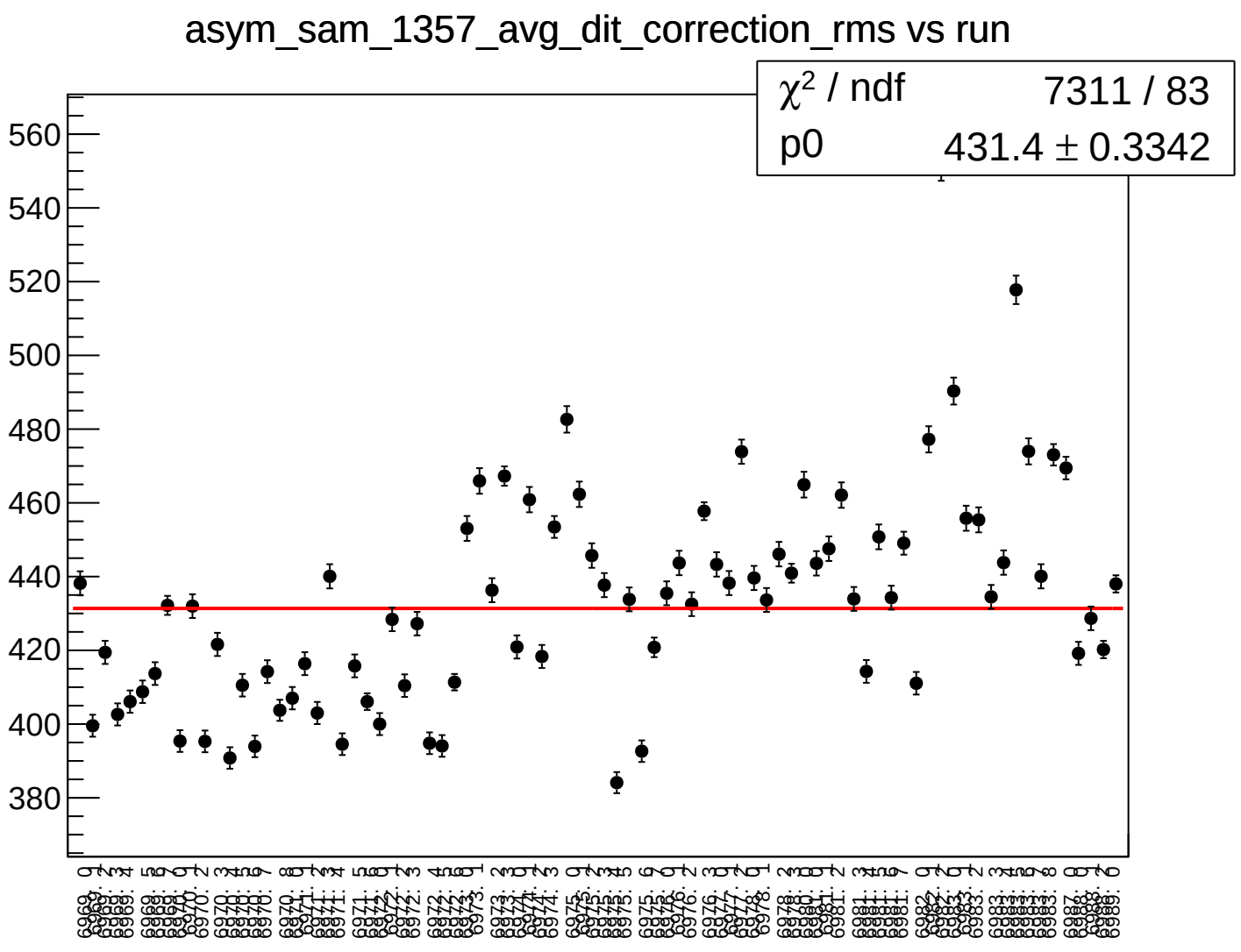

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 88.23 / 83
p0 −27.51± 60.58
pull
Entries 84
Mean 286
Std Dev 0

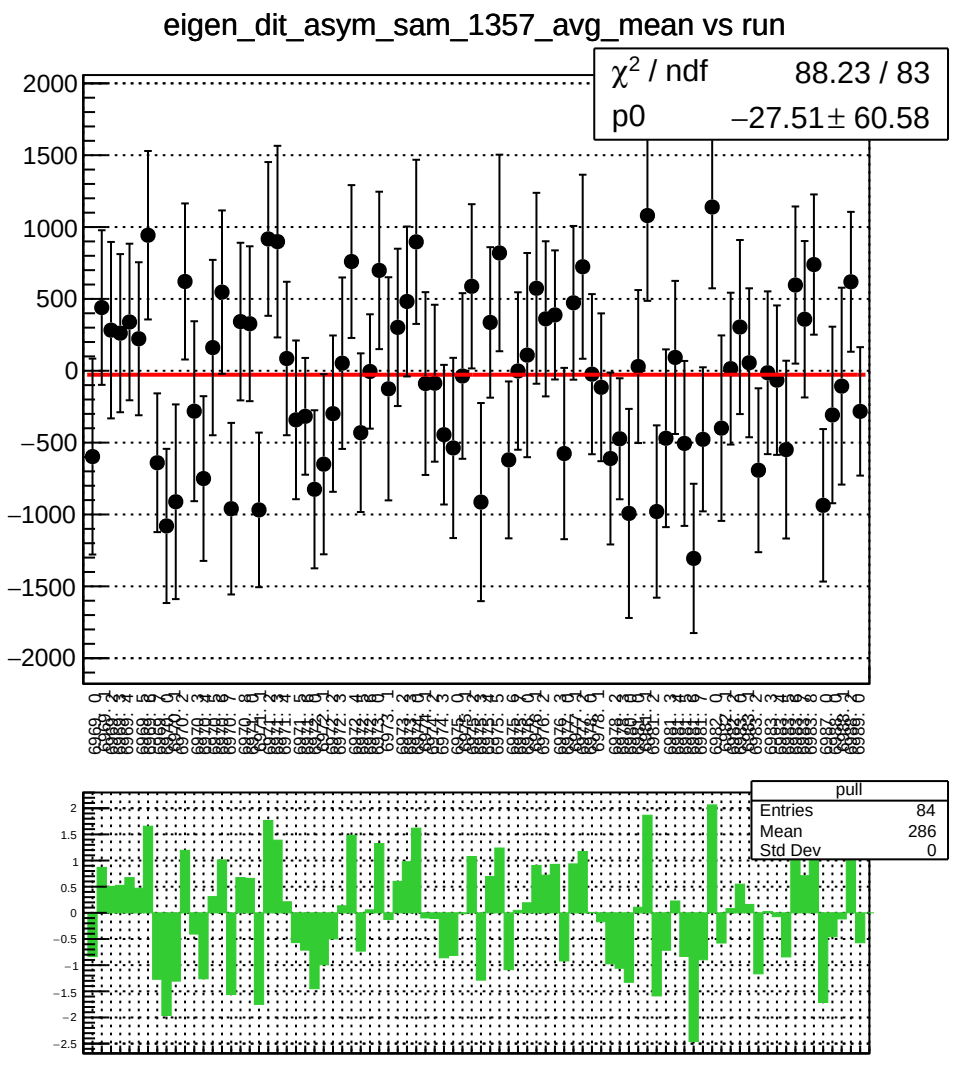

pull1D
Entries 84
Mean −0.003517
Std Dev 1.025

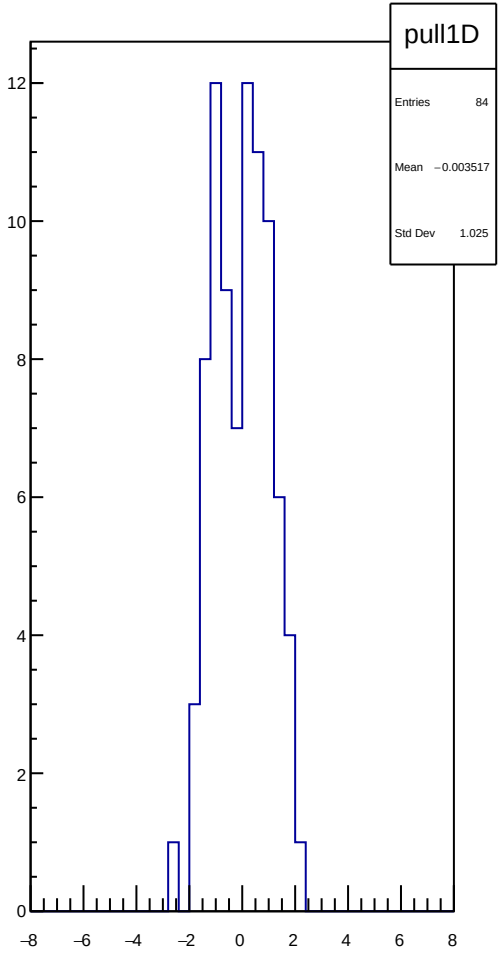

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.382e+04 / 83
p0 55.18 ± 0.04283
75
70
65
60
55
50

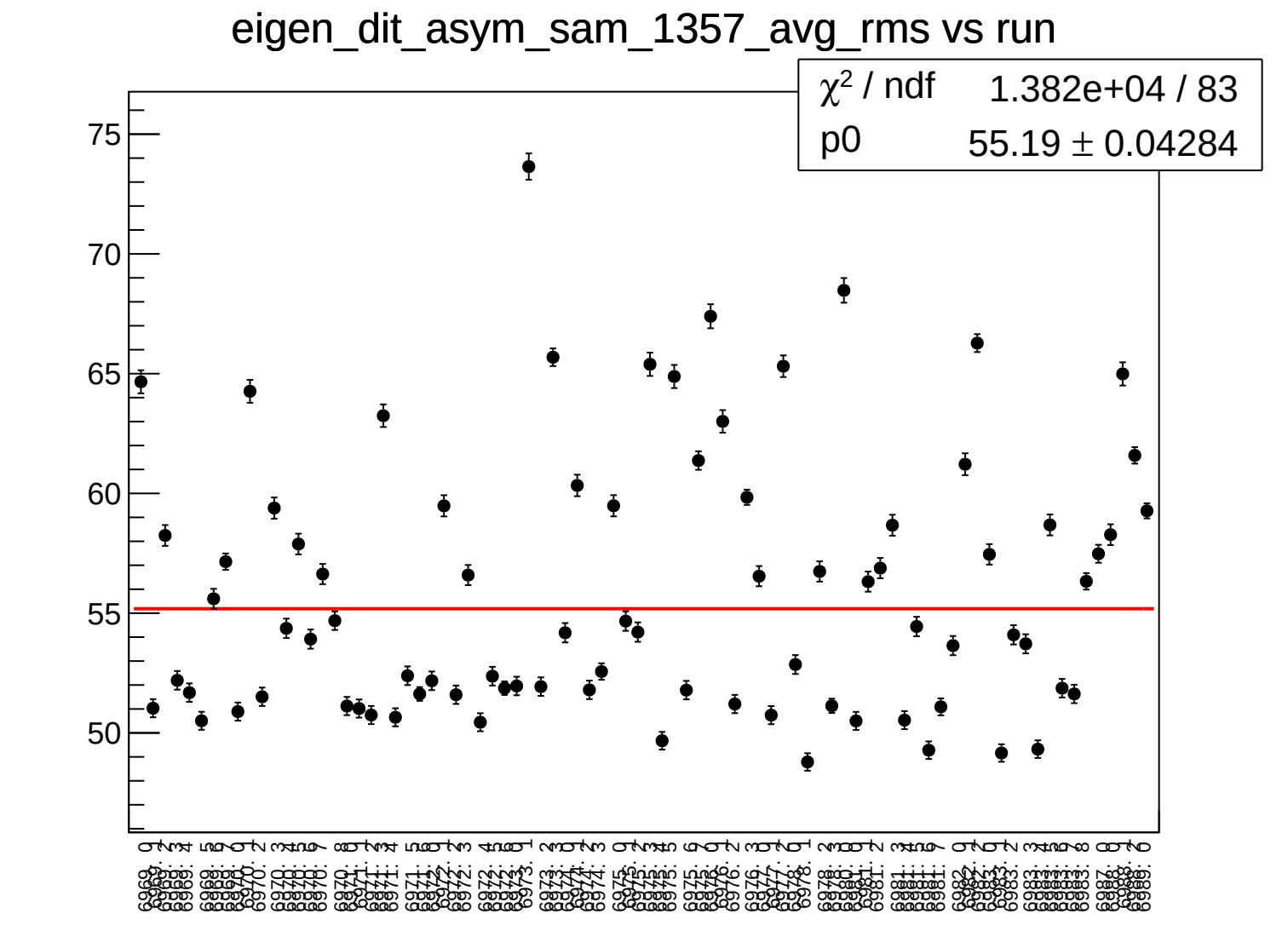

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 85.82 / 83
p0 −306.6 ± 472.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 2.104e+04
Std Dev 0
2
1
0
−1
−2

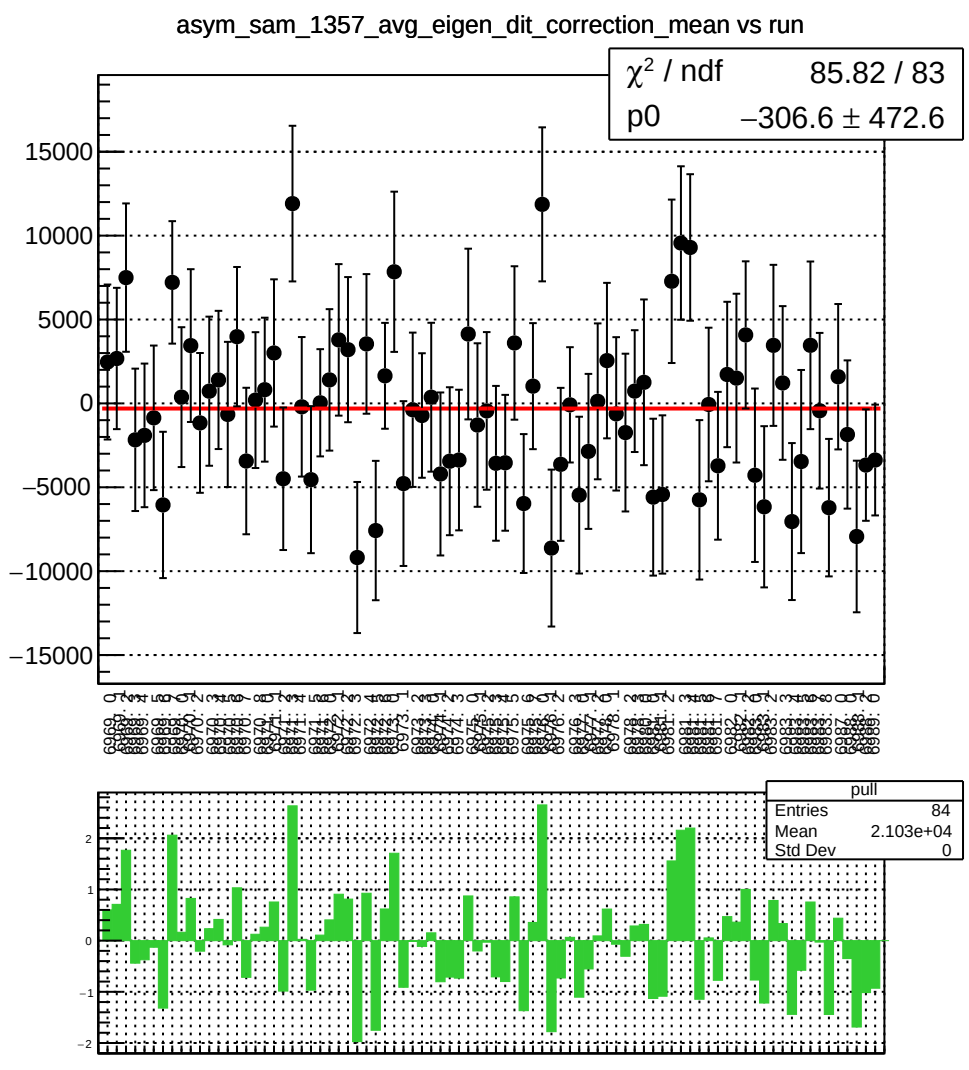

pull1D
Entries 84
Mean −0.0002241
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

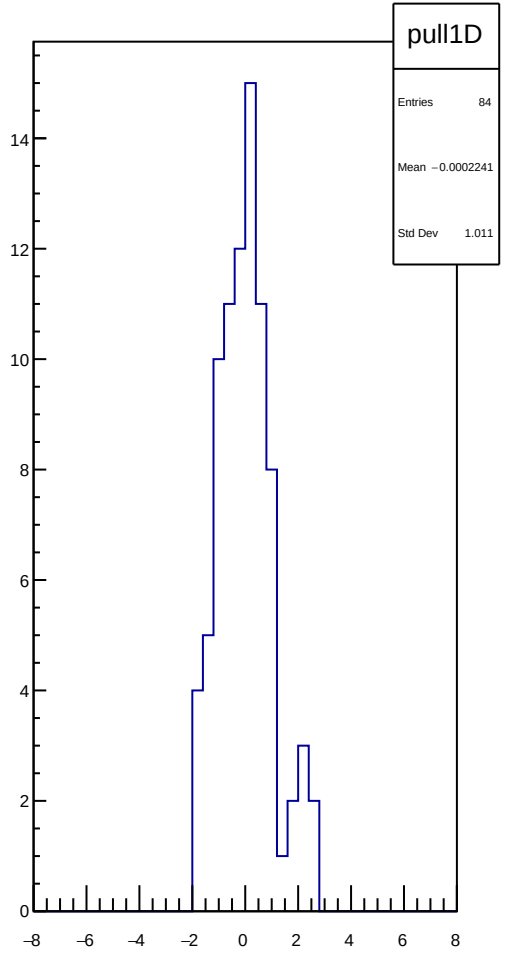

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 7311 / 83
p0 431.4 ± 0.3342
560
540
520
500
480
460
440
420
400
380

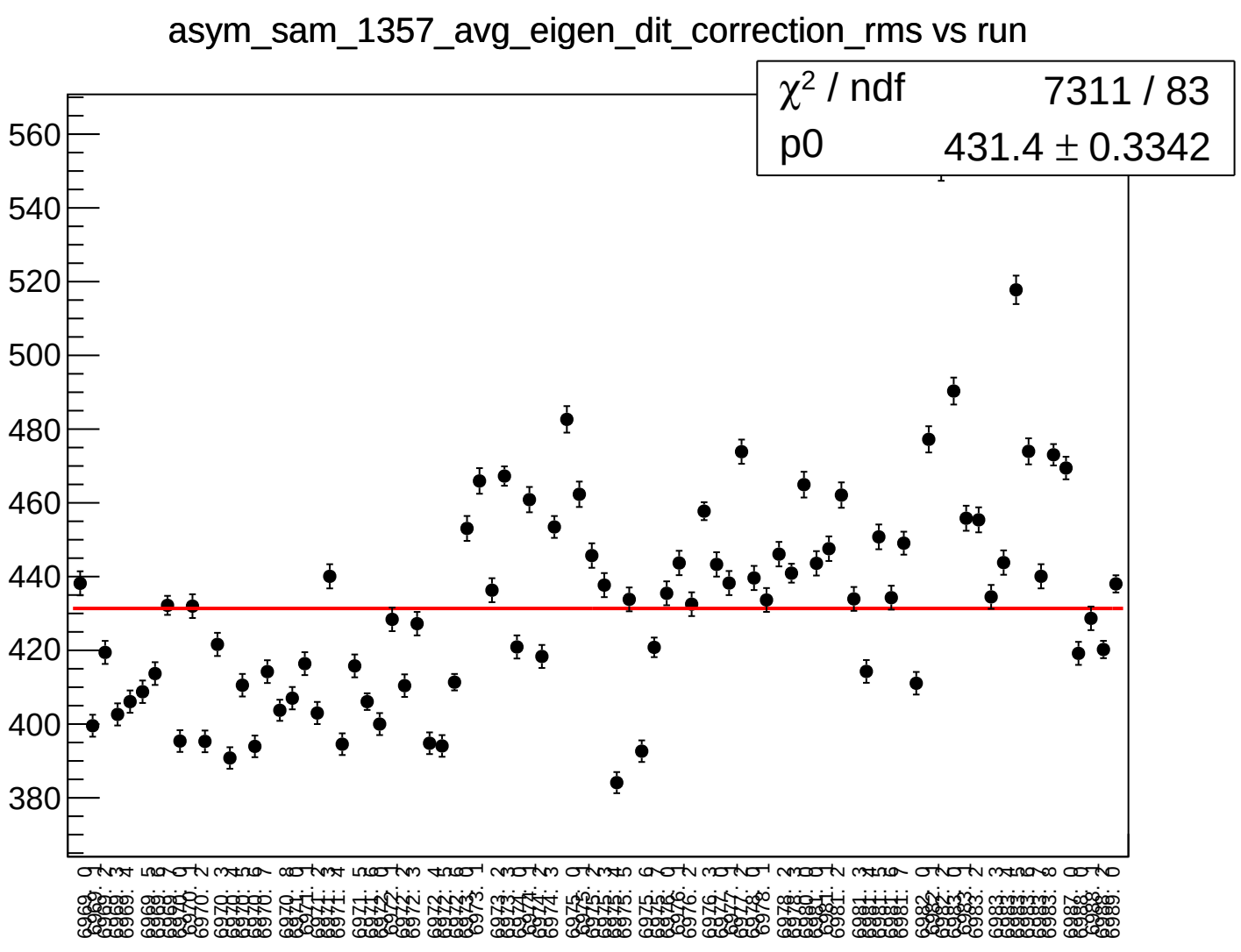

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 88.23 / 83
p0 −27.51 ± 60.58
pull
Entries 84
Mean 286
Std Dev 0

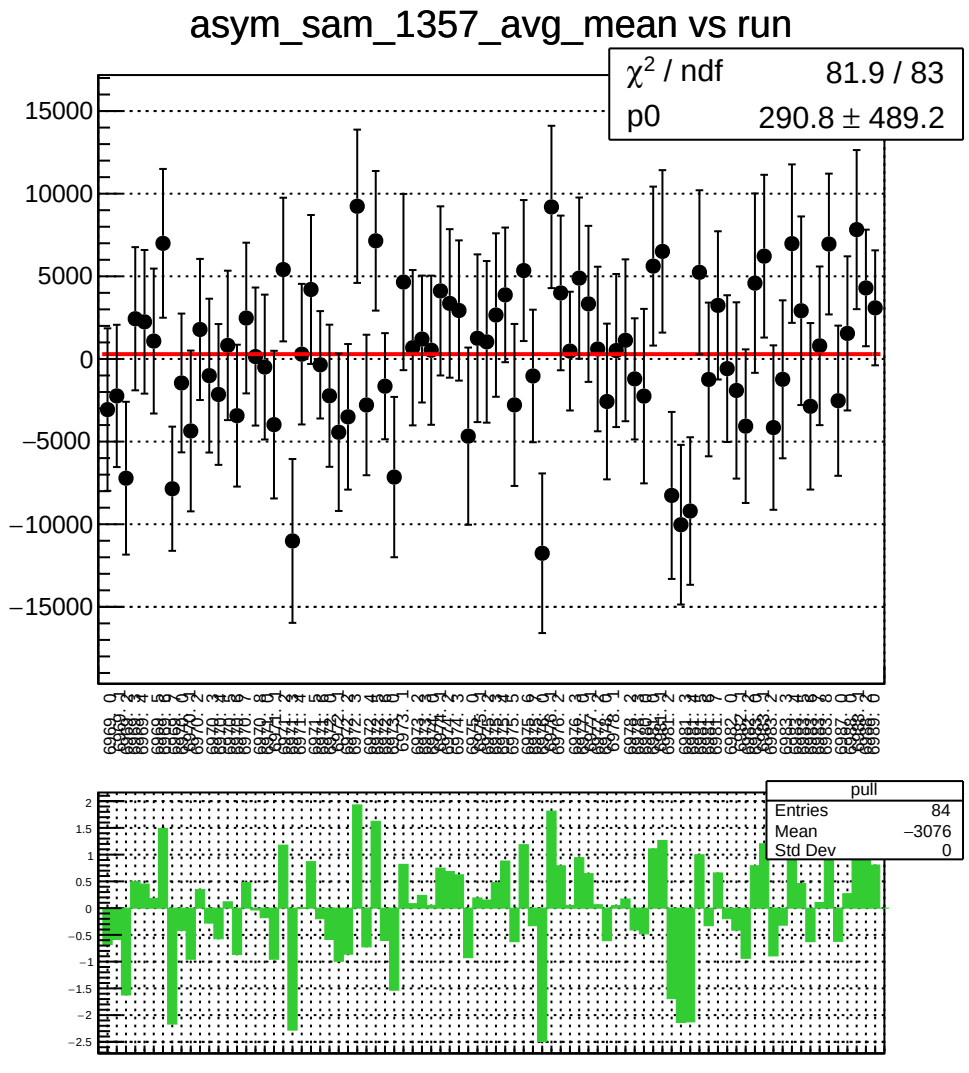

pull1D
Entries 84
Mean −0.003517
Std Dev 1.025

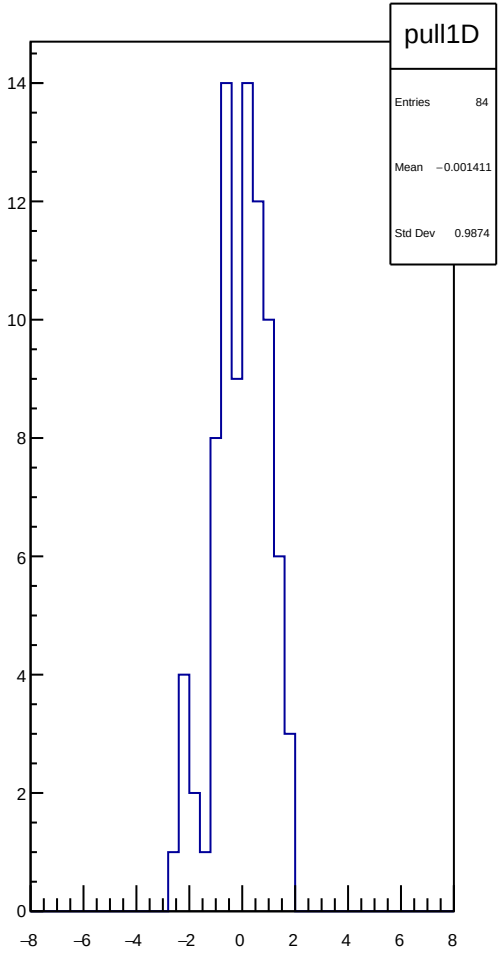

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.382e+04 / 83
p0 55.19 ± 0.04284
75
70
65
60
55
50

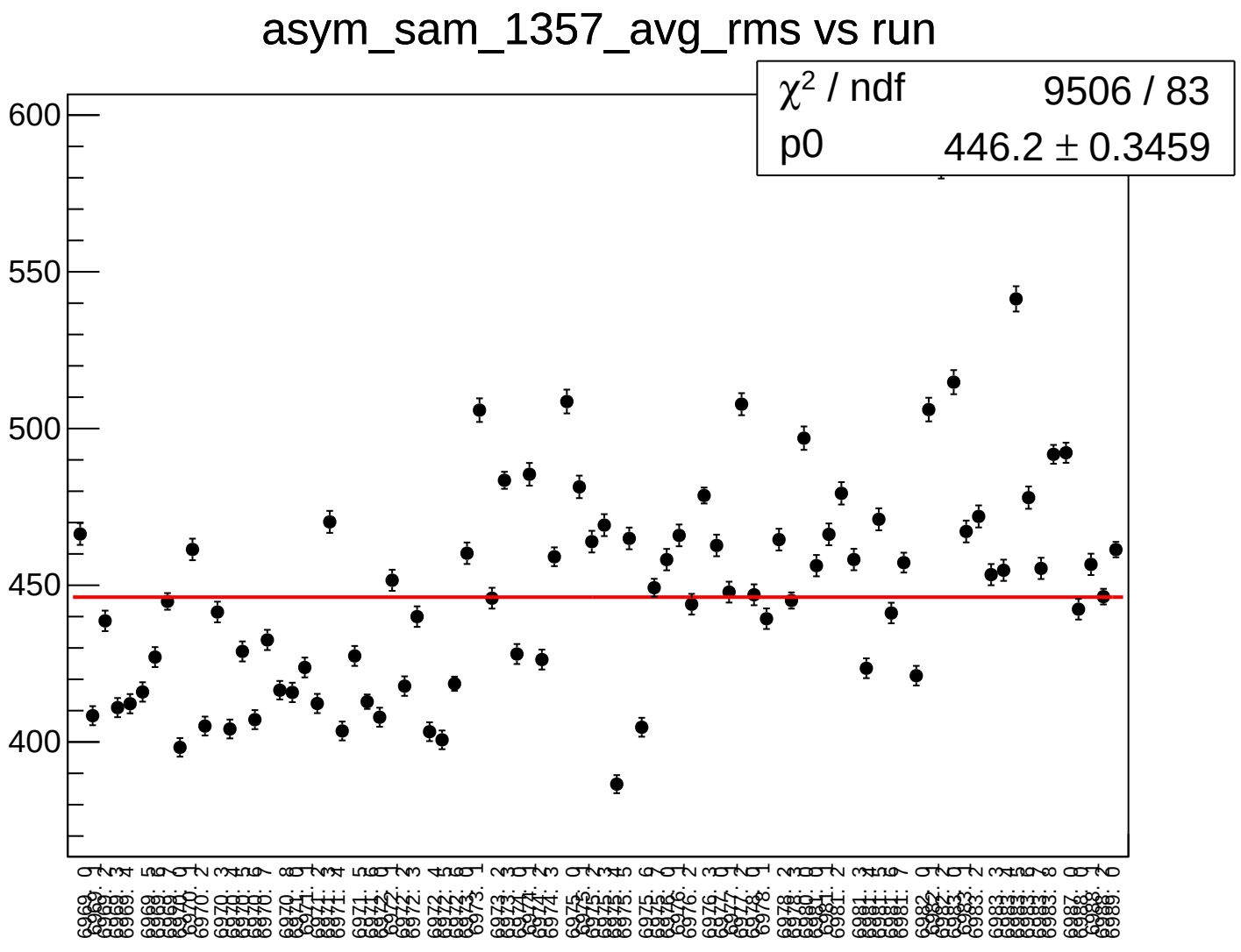

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.82 / 83
p0 −306.6 ± 472.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 2.103e+04
Std Dev 0
2
1
0
−1
−2

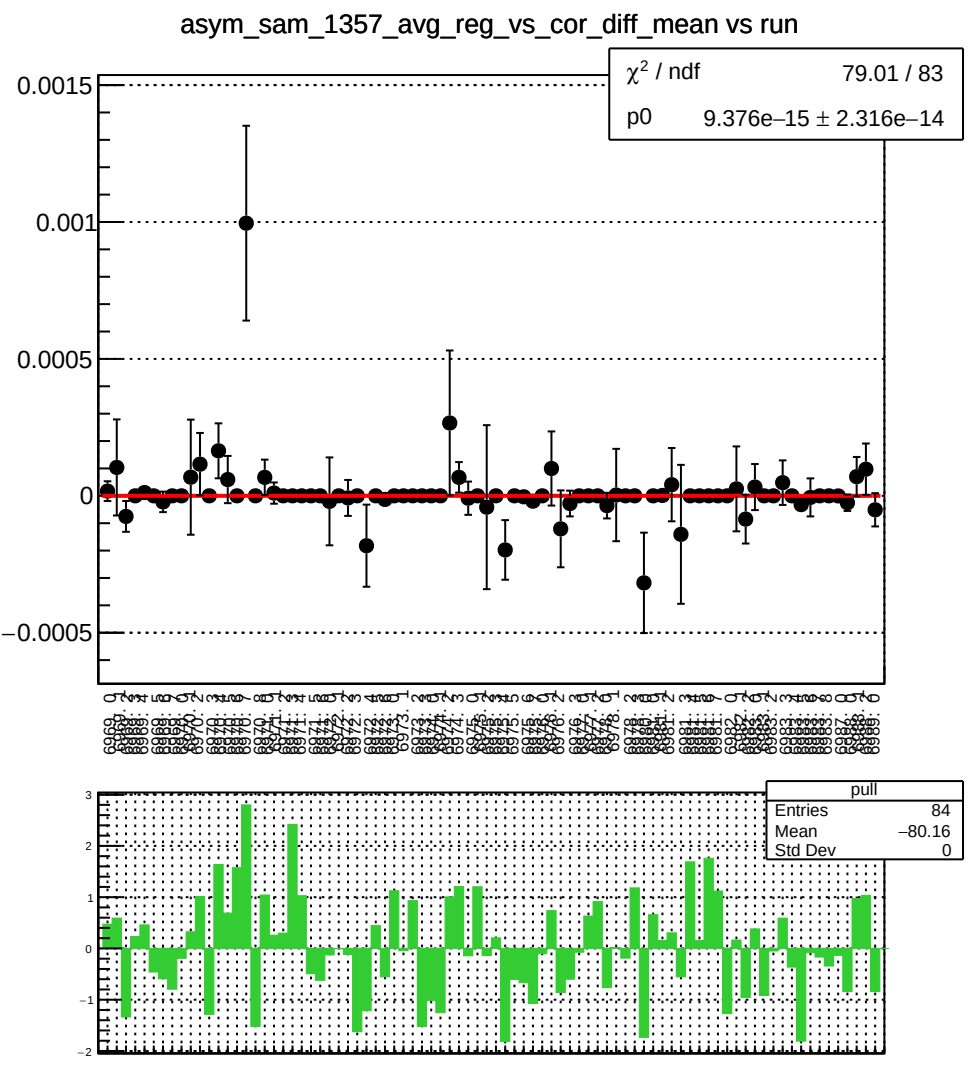

pull1D
Entries 84
Mean −0.0002241
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

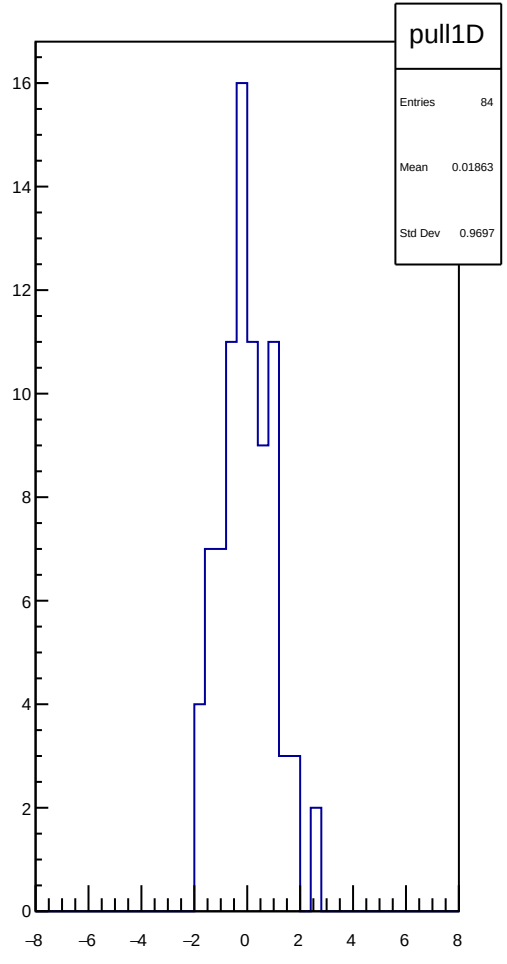

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 7311 / 83
p0 431.4 ± 0.3342
560
540
520
500
480
460
440
420
400
380

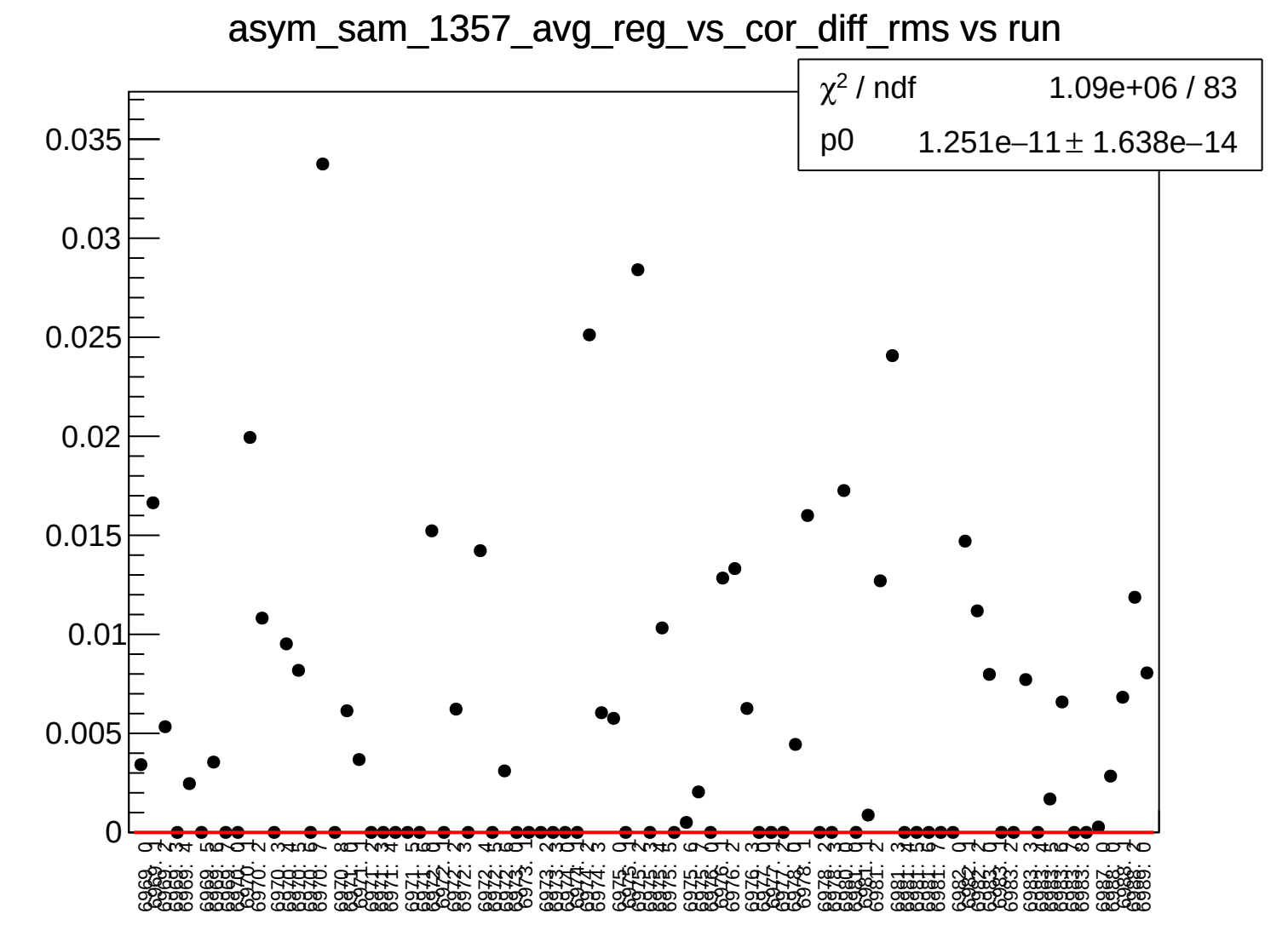

asym_sam_1357_avg_mean vs run
χ² / ndf 81.9 / 83
p0 290.8 ± 489.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −3076
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

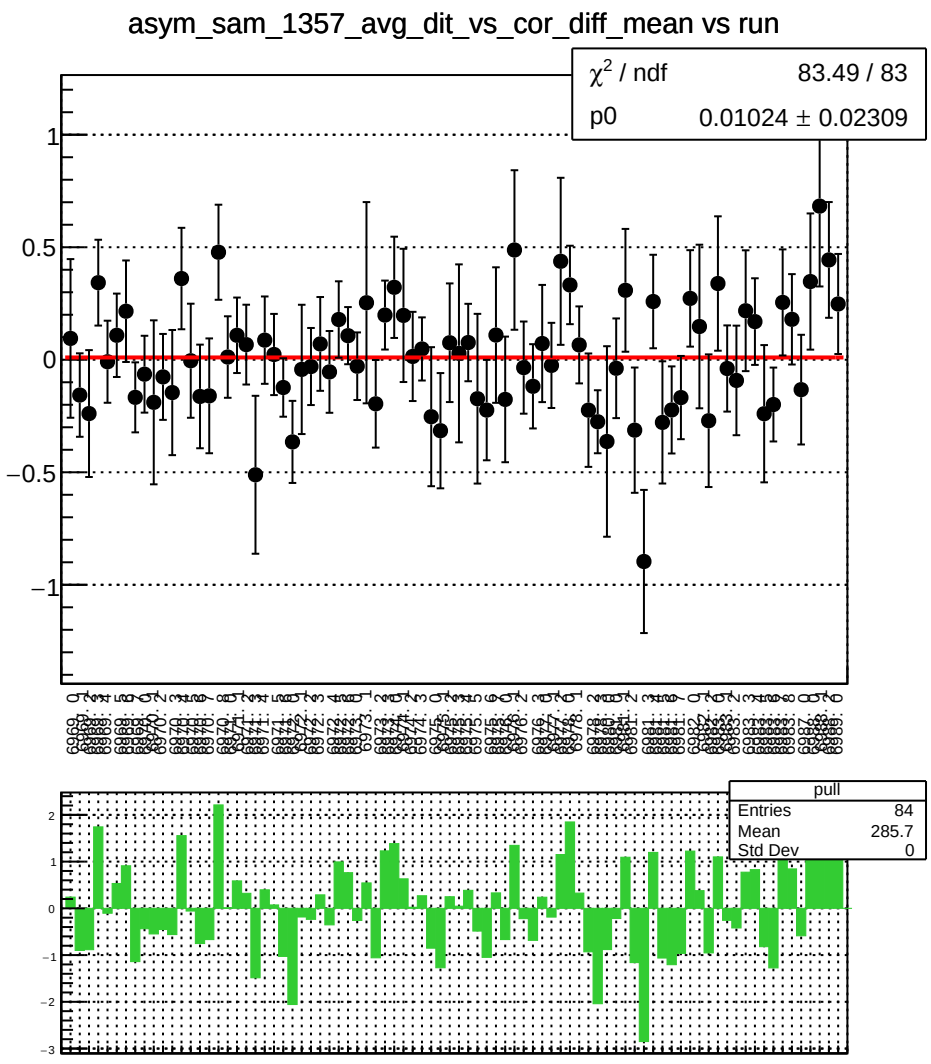

pull1D
Entries 84
Mean −0.001411
Std Dev 0.9874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

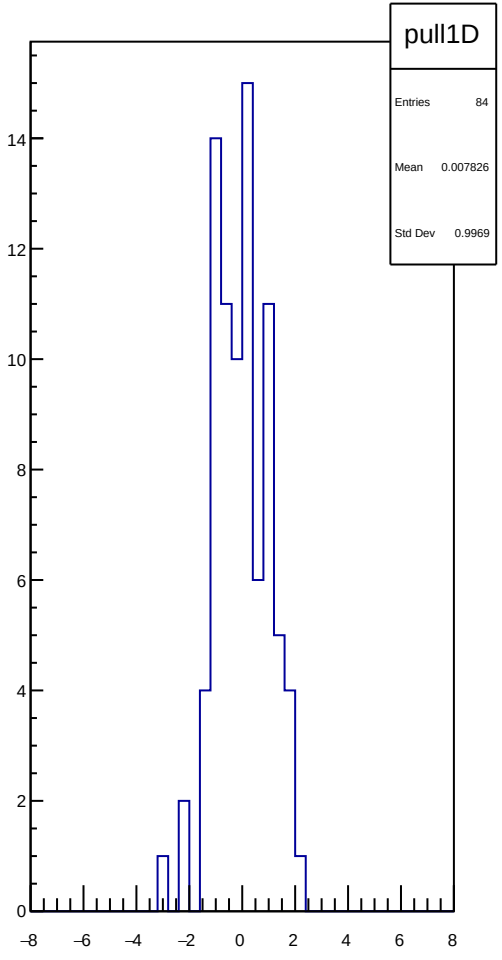

asym_sam_1357_avg_rms vs run
χ² / ndf 9506 / 83
p0 446.2 ± 0.3459
600
550
500
450
400

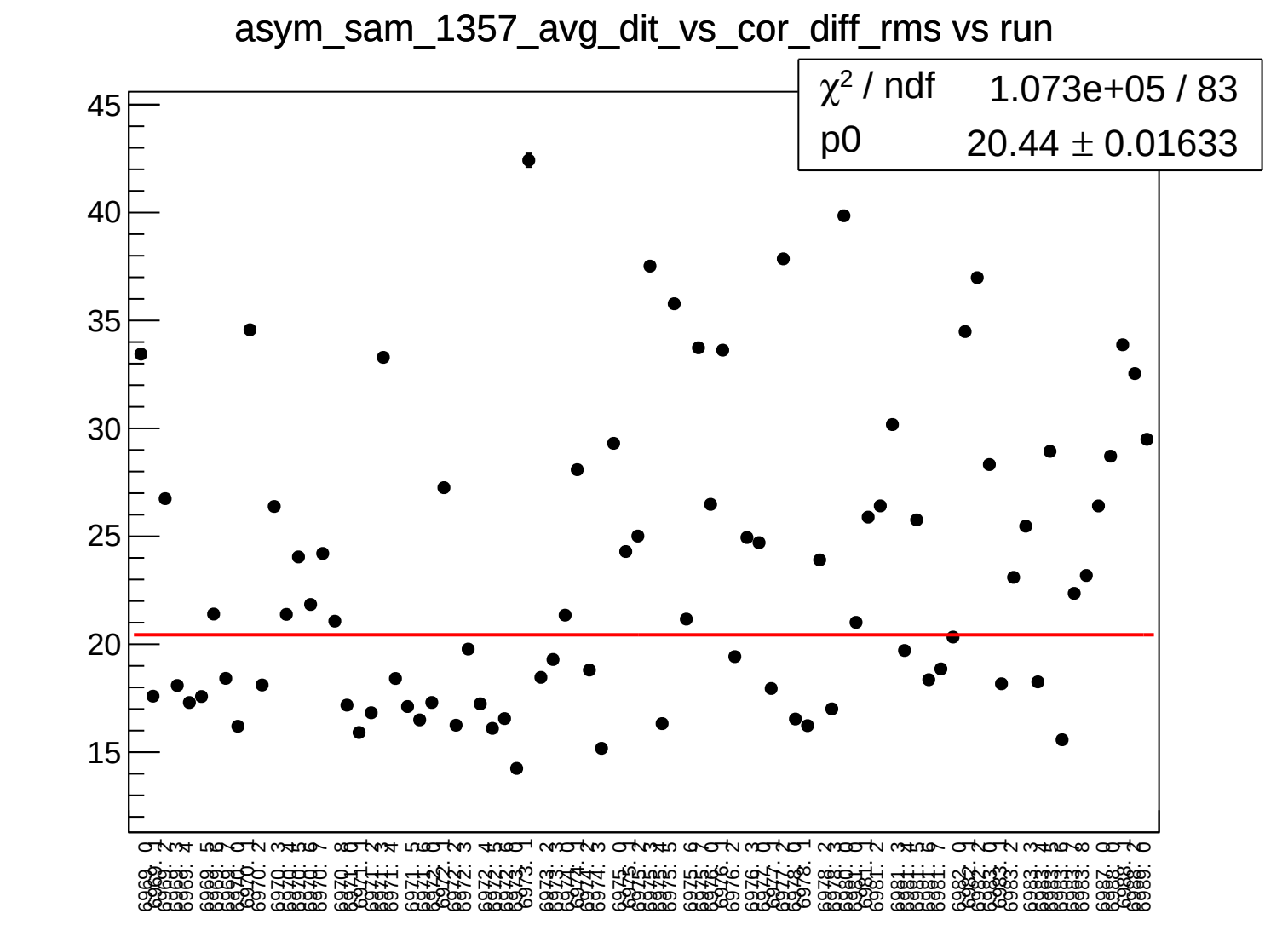

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.01 / 83
p0 9.376e−15 ± 2.316e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 84
Mean −80.16
Std Dev 0
3
2
1
0
−1
−2

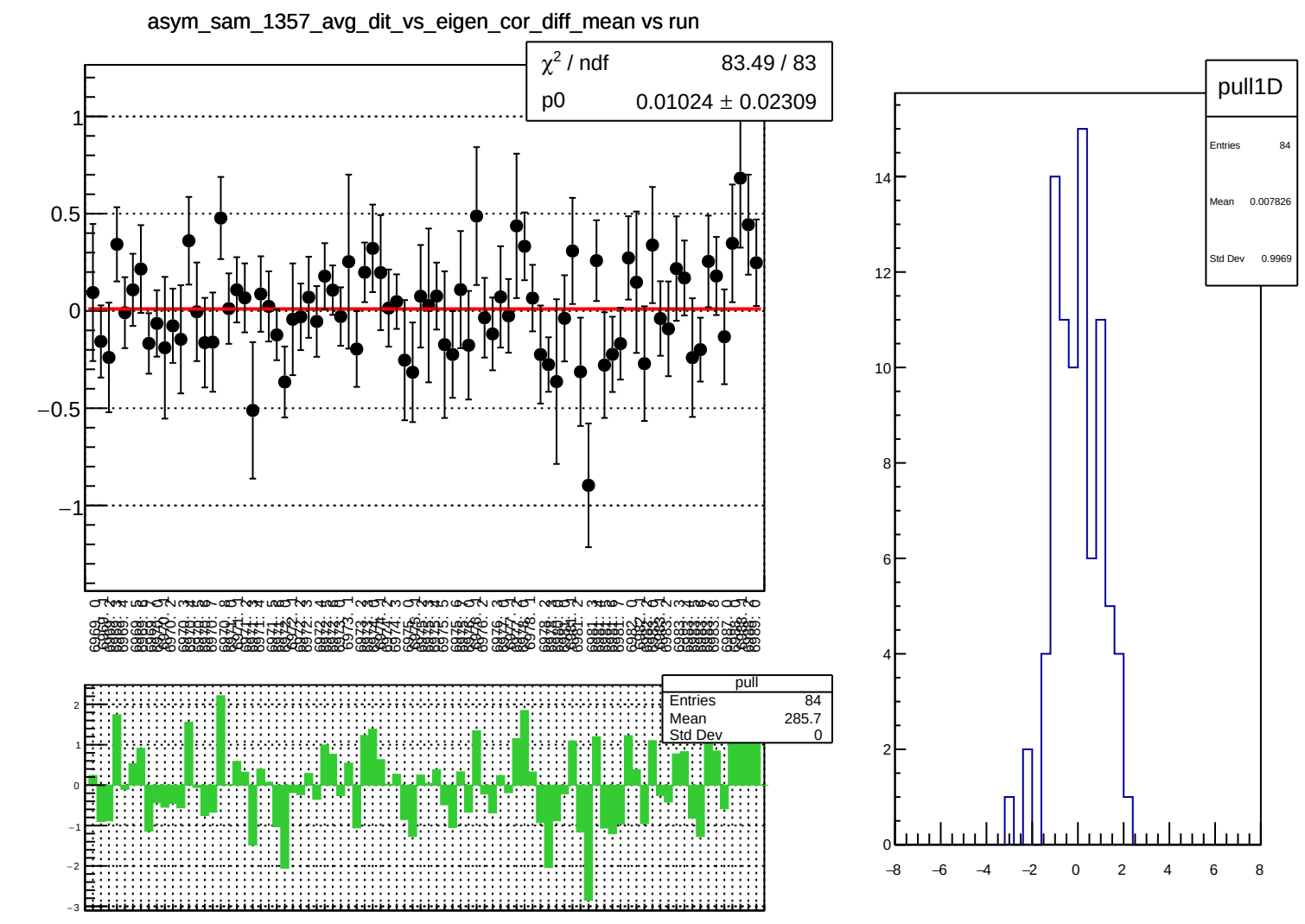

pull1D
Entries 84
Mean 0.01863
Std Dev 0.9697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

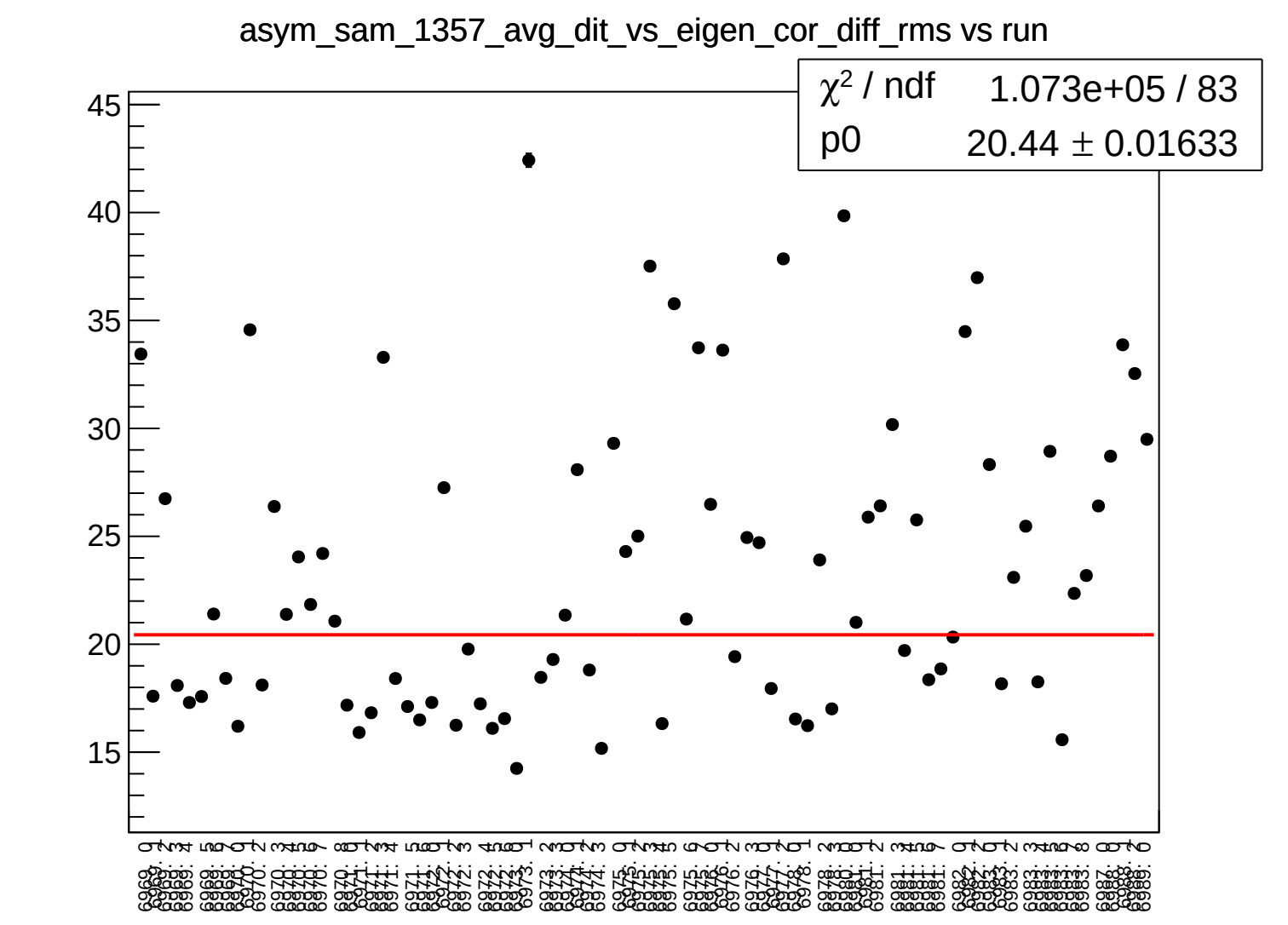

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 83
p0 1.251e−11 ± 1.638e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

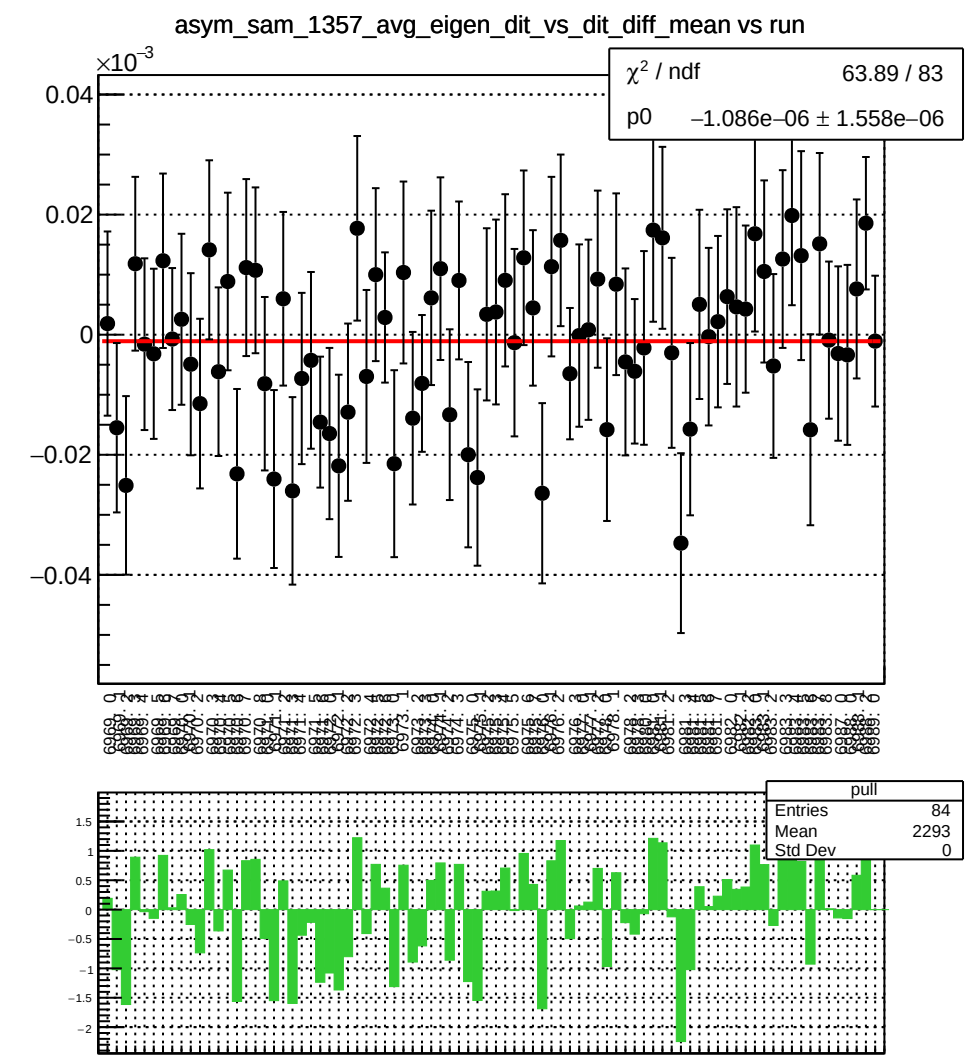

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.49 / 83
p0 0.01024 ± 0.02309
pull
Entries 84
Mean 285.7
Std Dev 0

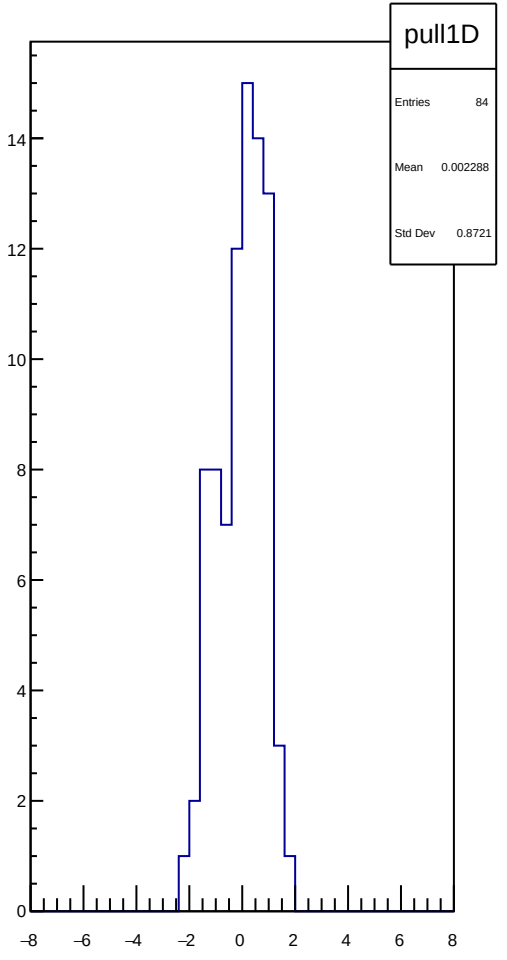

pull1D
Entries 84
Mean 0.007826
Std Dev 0.9969

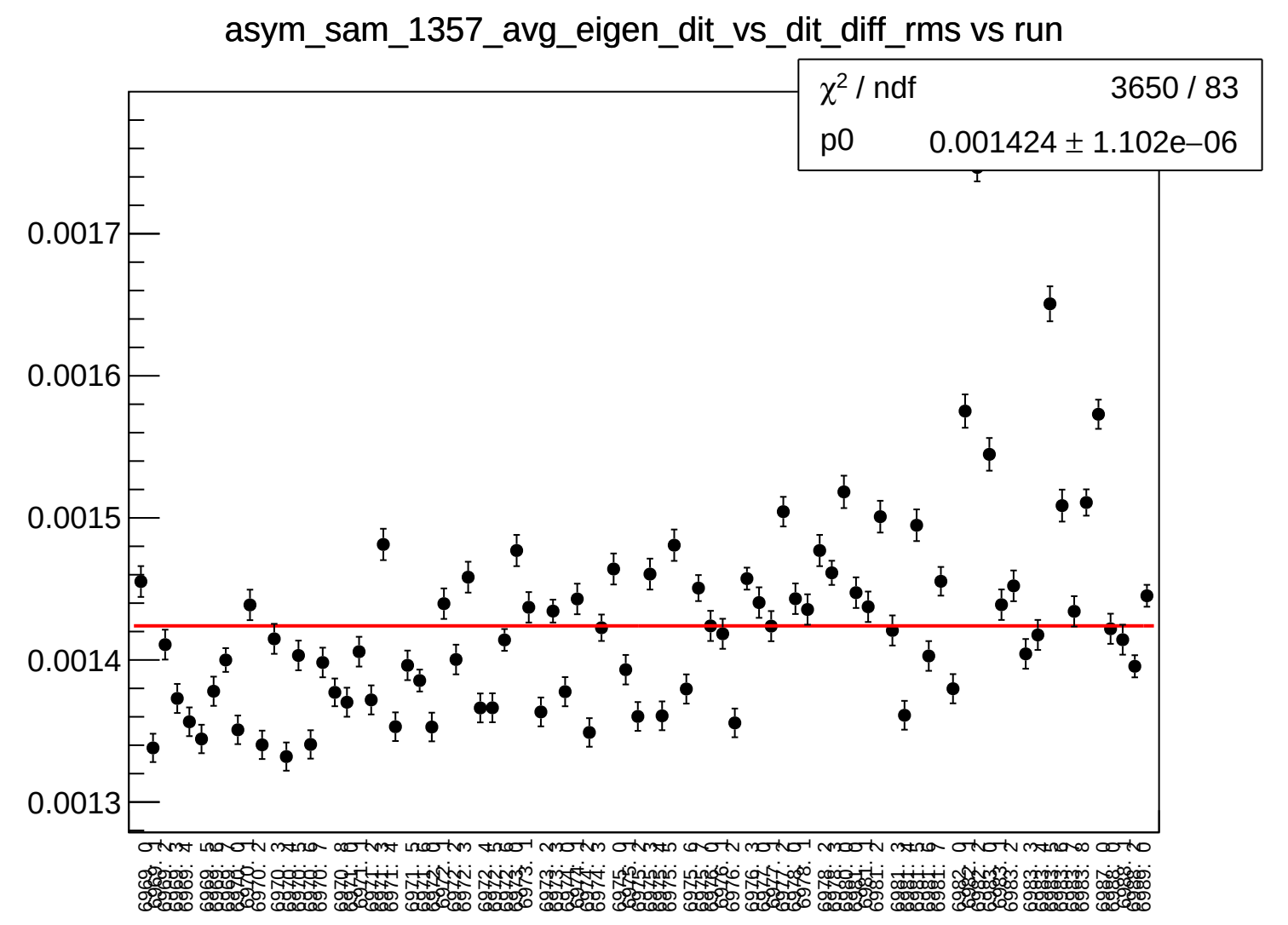

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 83
p0 20.44 ± 0.01633
45
40
35
30
25
20
15

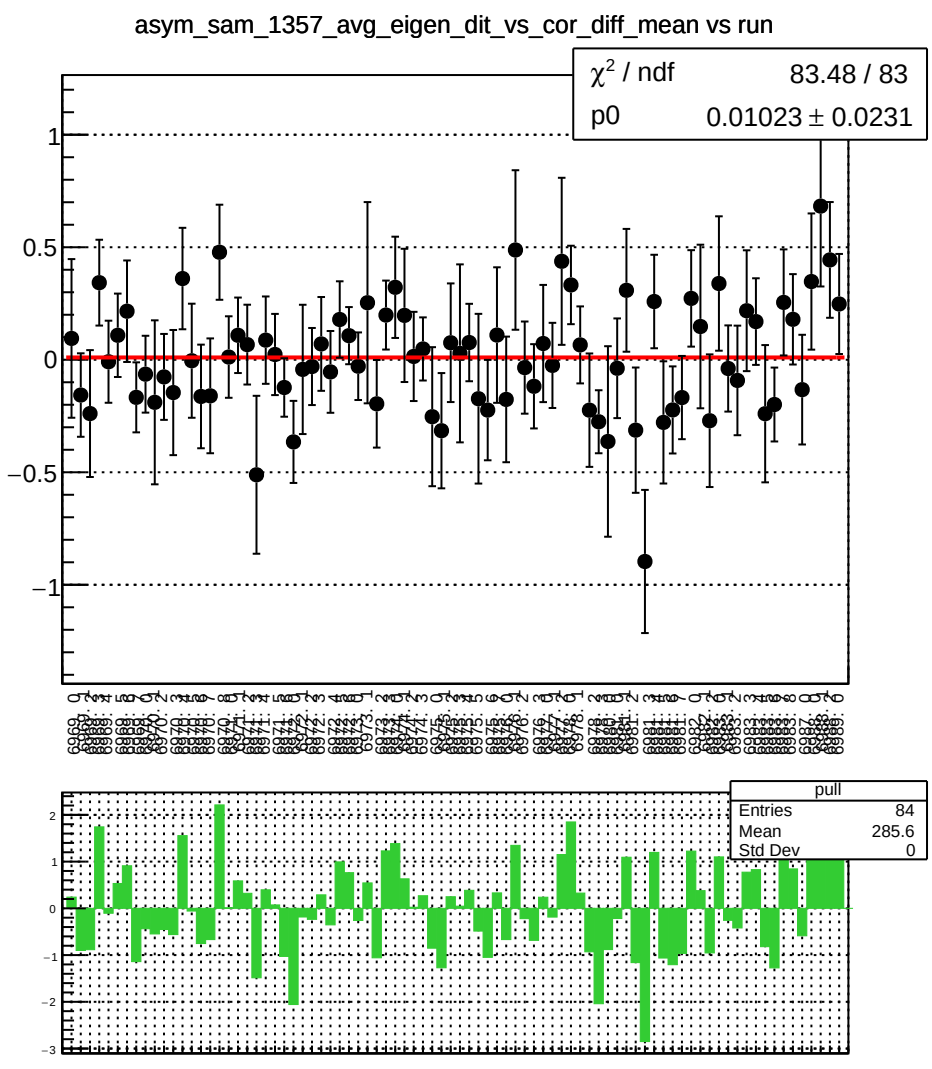

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.49 / 83
p0 0.01024 ± 0.02309
pull
Entries 84
Mean 285.7
Std Dev 0
pull1D
Entries 84
Mean 0.007826
Std Dev 0.9969

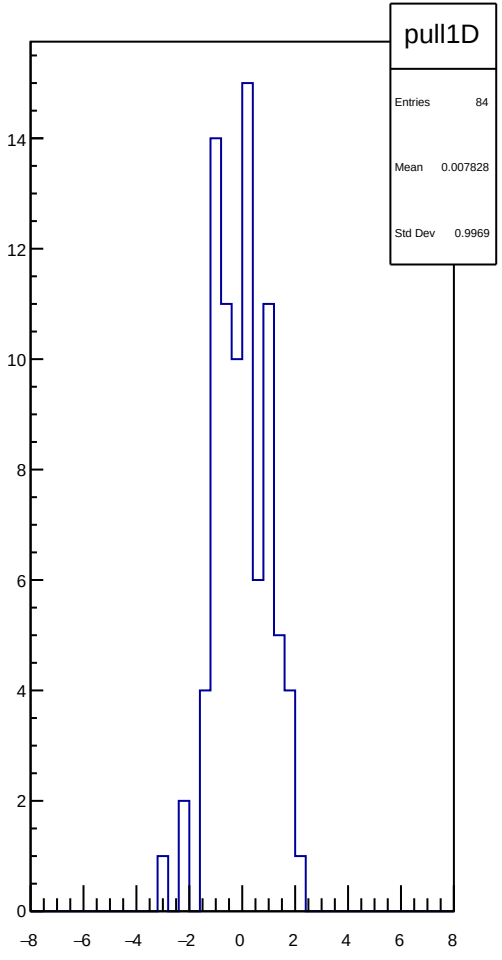

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 83
p0 20.44 ± 0.01633
45
40
35
30
25
20
15

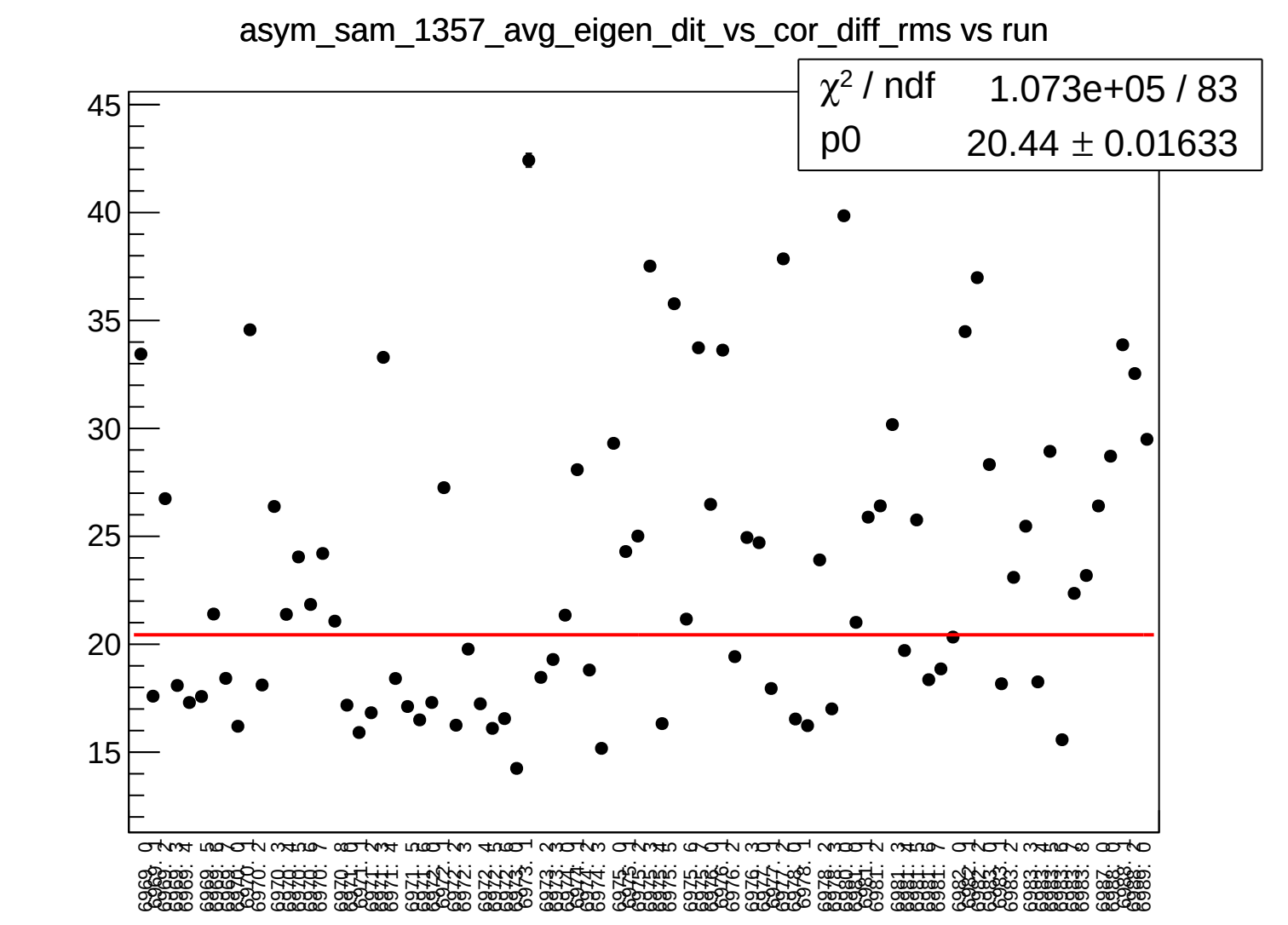

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.89 / 83
p0 −1.086e−06 ± 1.558e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 84
Mean 2293
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

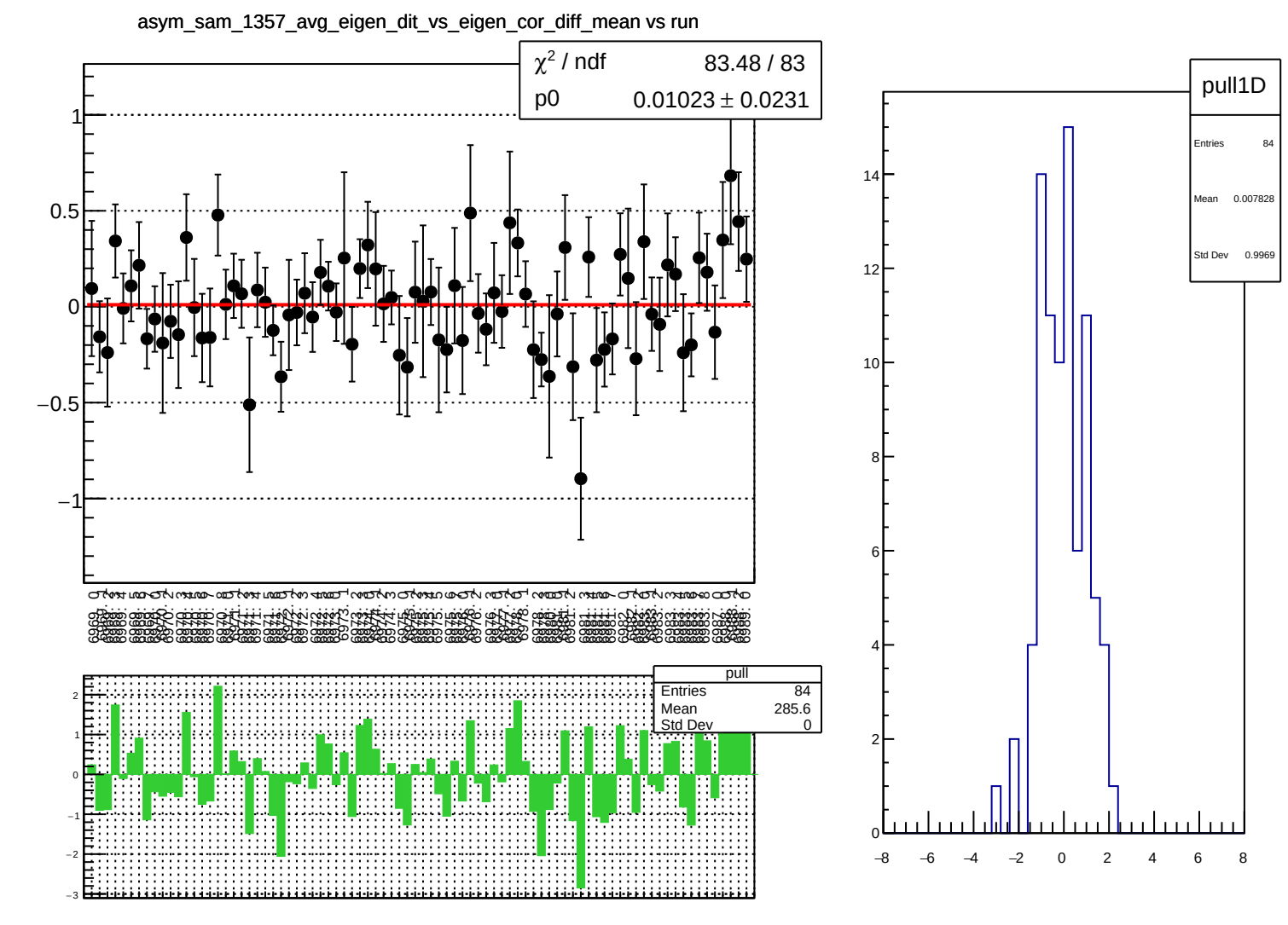

pull1D
Entries 84
Mean 0.002288
Std Dev 0.8721
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

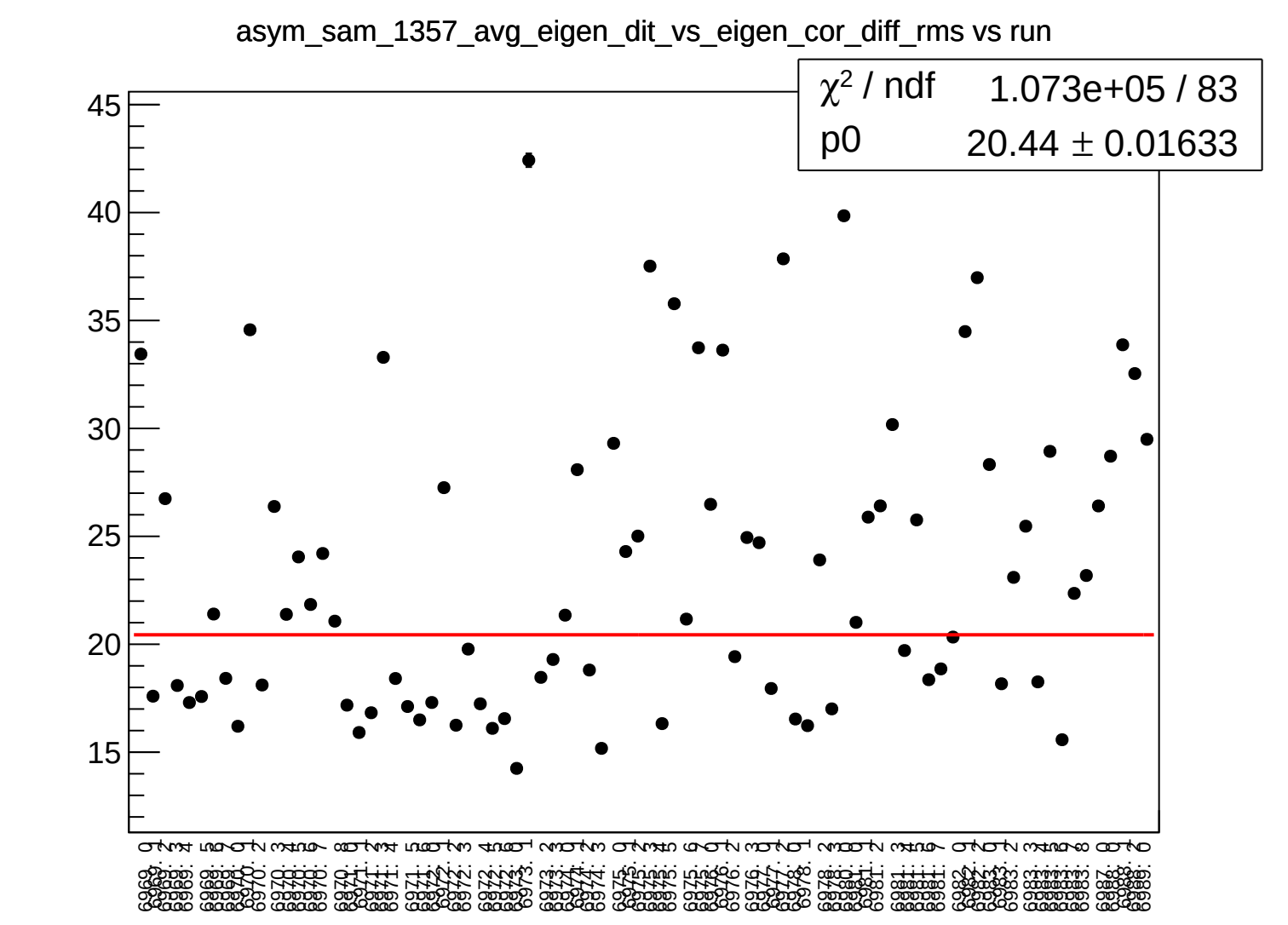

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3650 / 83
p0 0.001424 ± 1.102e−06
0.0017
0.0016
0.0015
0.0014
0.0013

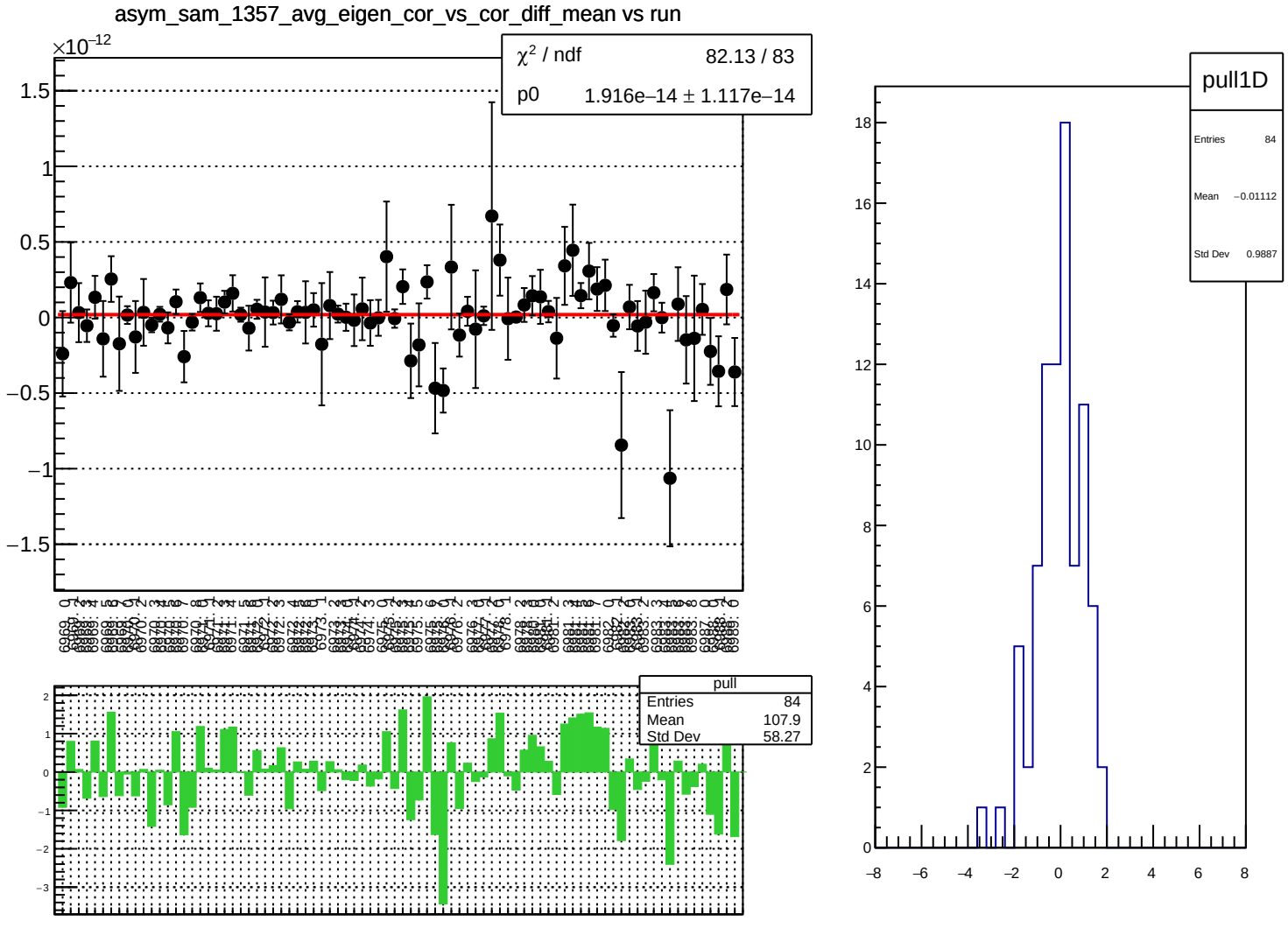

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.48 / 83
p0 0.01023 ± 0.0231
pull
Entries 84
Mean 285.6
Std Dev 0

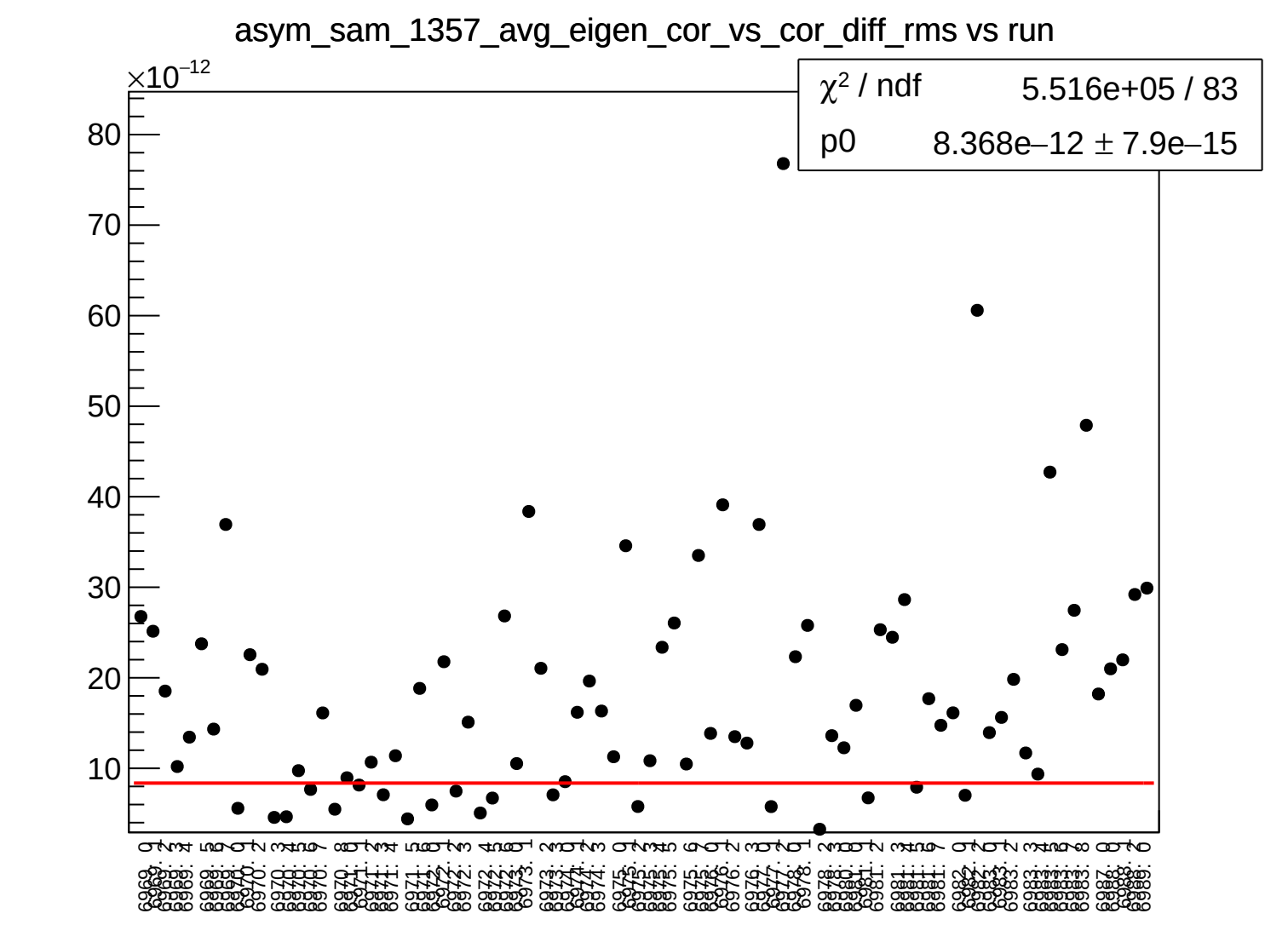

pull1D
Entries 84
Mean 0.007828
Std Dev 0.9969

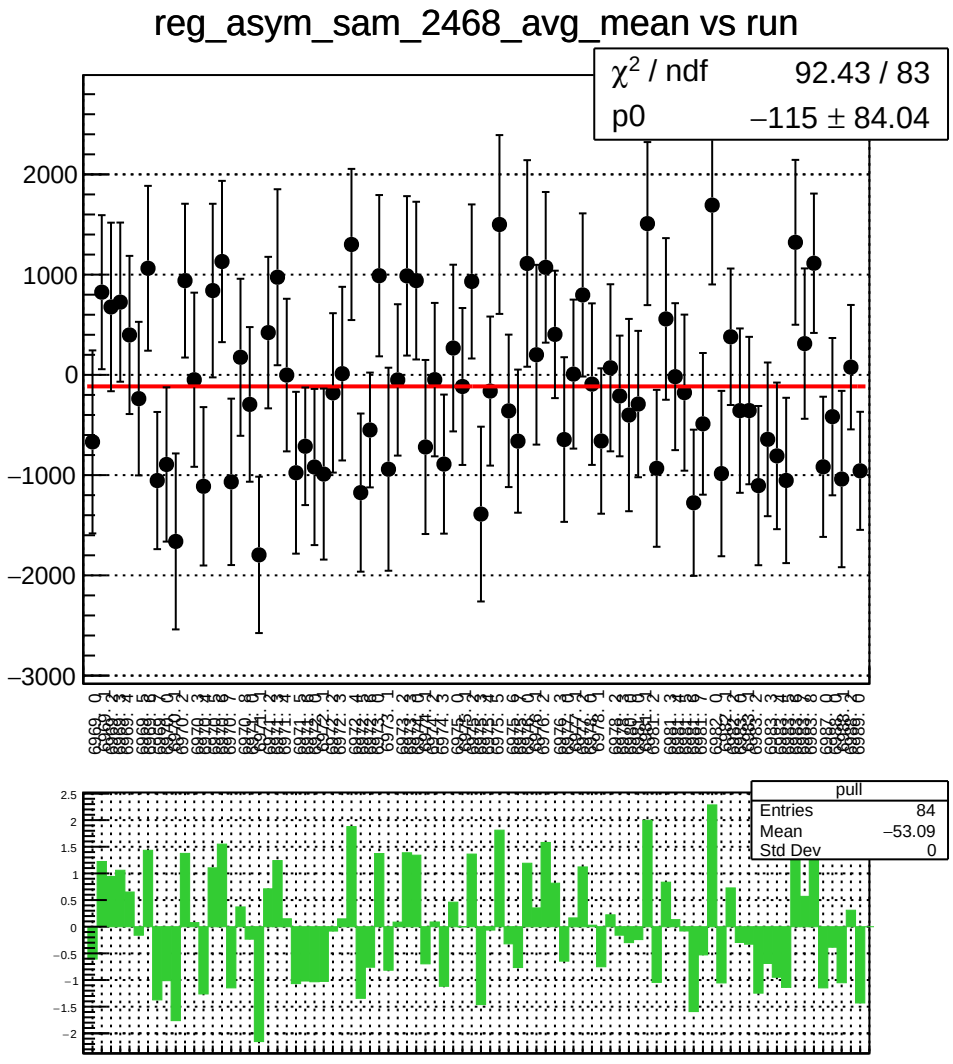

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 83
p0 20.44 ± 0.01633
45
40
35
30
25
20
15

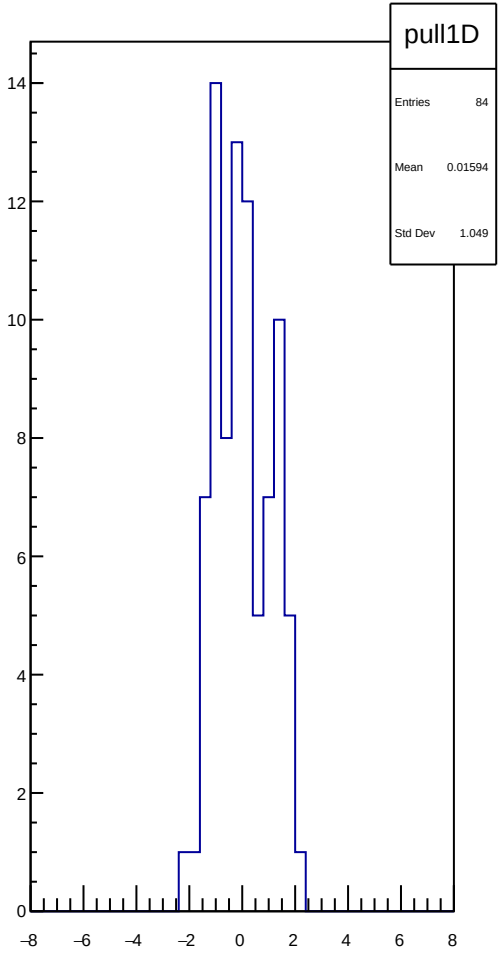

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.48 / 83
p0 0.01023 ± 0.0231
pull
Entries 84
Mean 285.6
Std Dev 0
pull1D
Entries 84
Mean 0.007828
Std Dev 0.9969

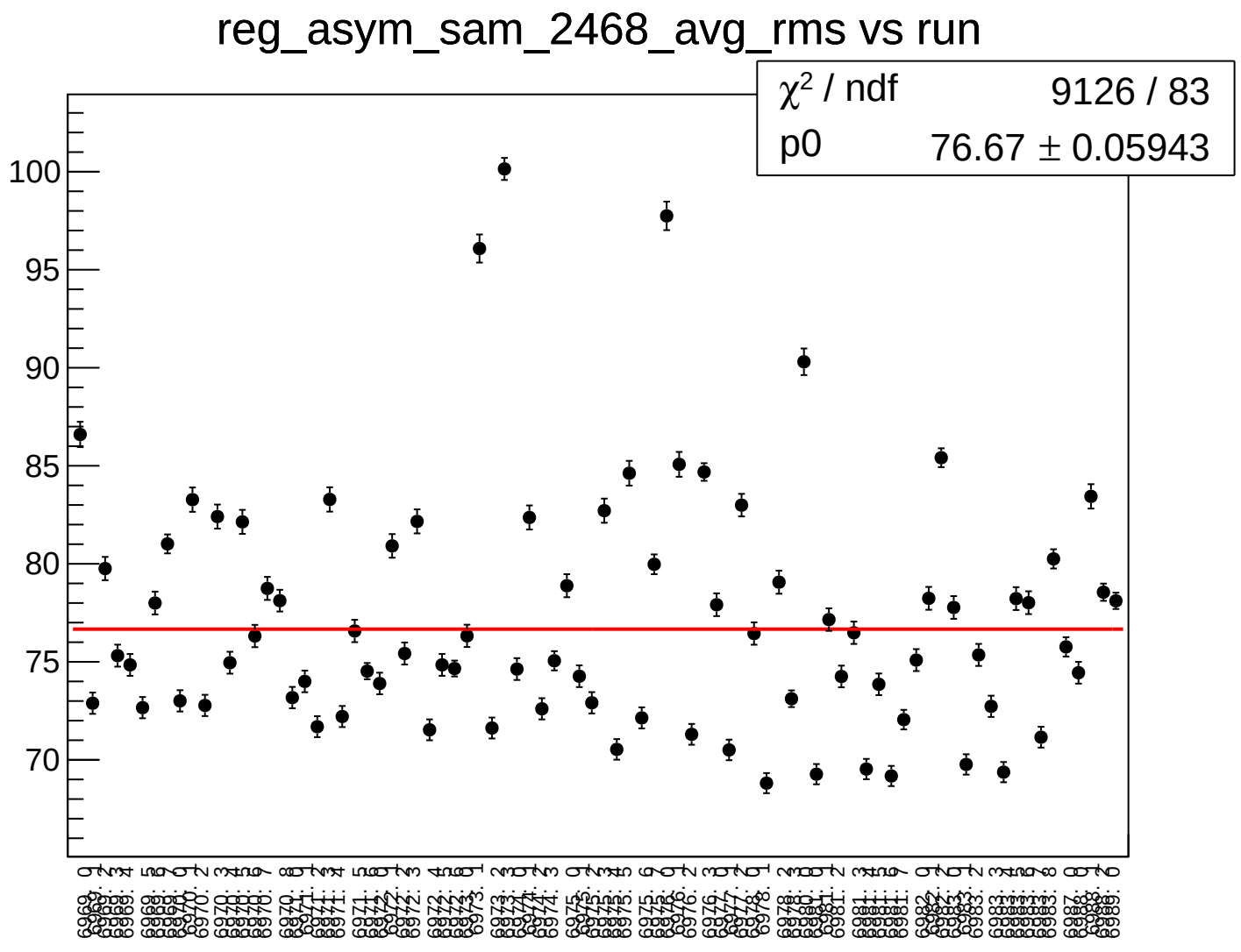

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 83
p0 20.44 ± 0.01633
45
40
35
30
25
20
15

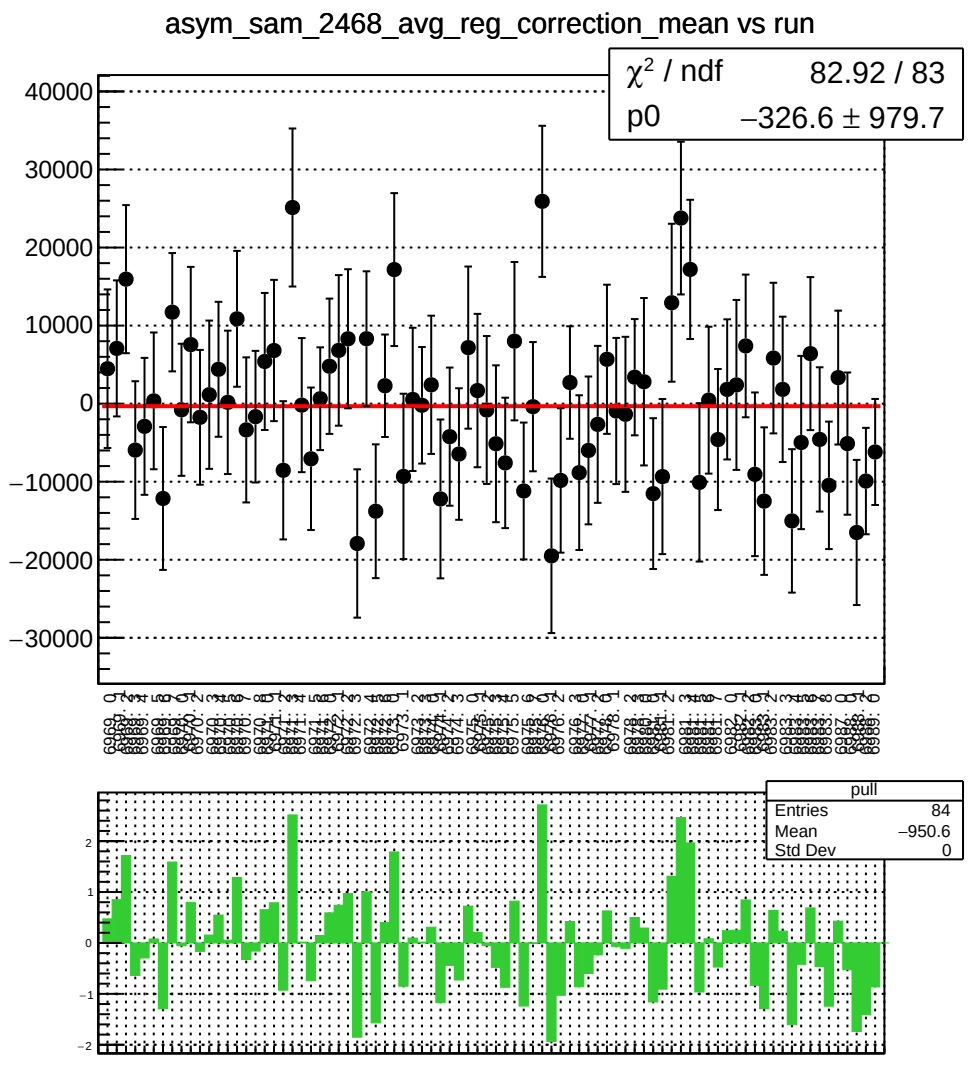

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 82.13 / 83
p0 1.916e−14 ± 1.117e−14
pull
Entries 84
Mean 107.9
Std Dev 58.27
pull1D
Entries 84
Mean −0.01112
Std Dev 0.9887

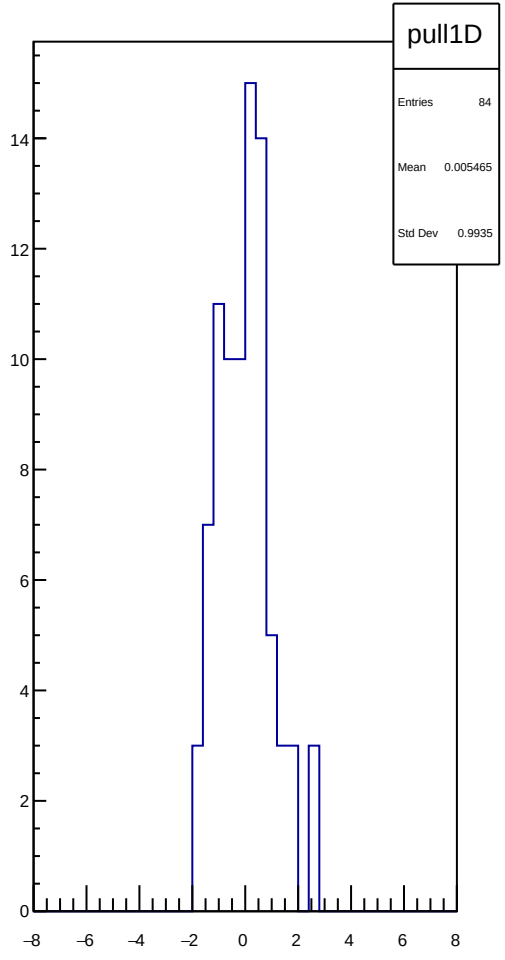

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.516e+05 / 83
p0 8.368e−12 ± 7.9e−15
80
70
60
50
40
30
20
10

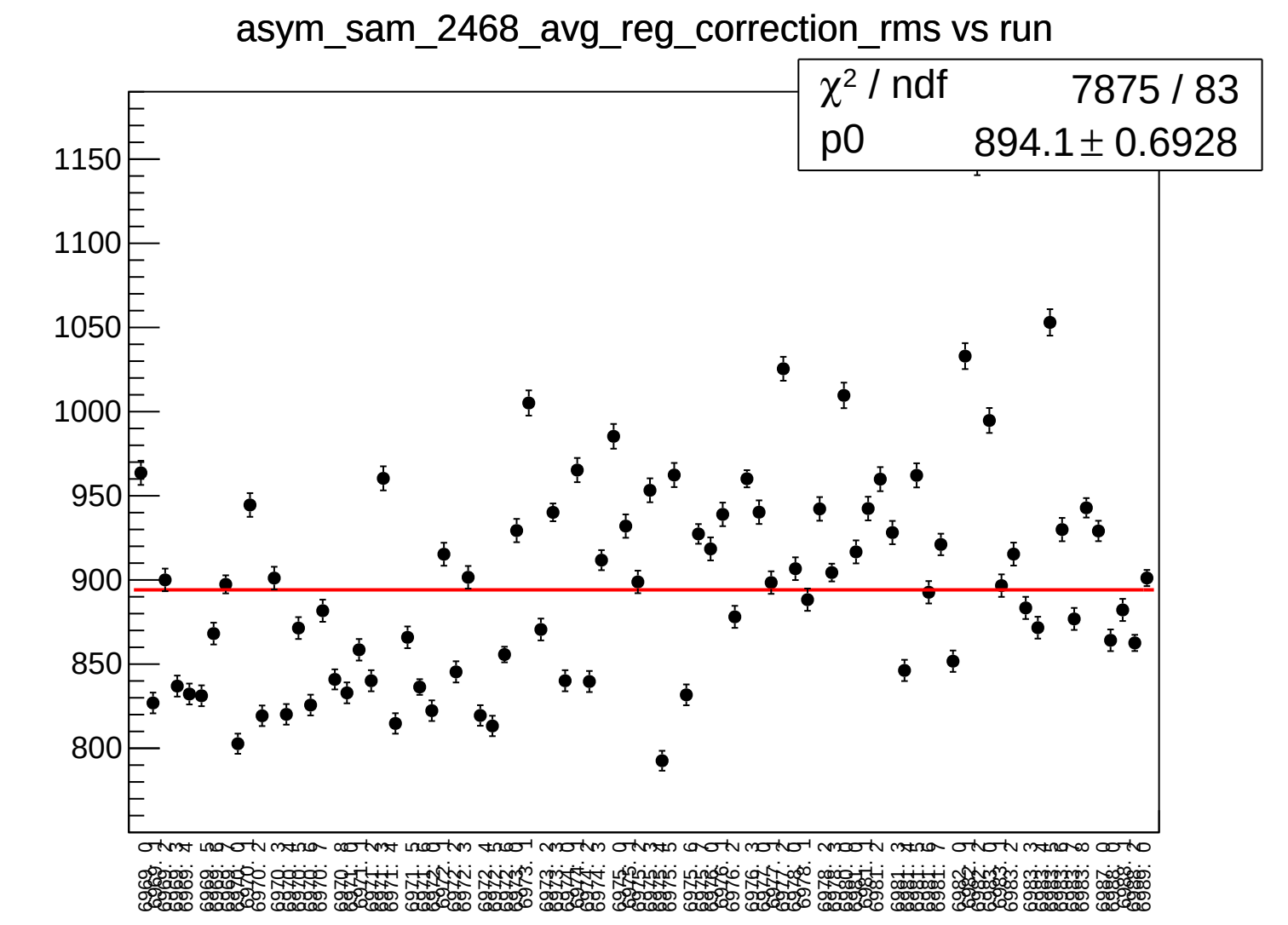

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 92.43 / 83
p0 −115 ± 84.04
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −53.09
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

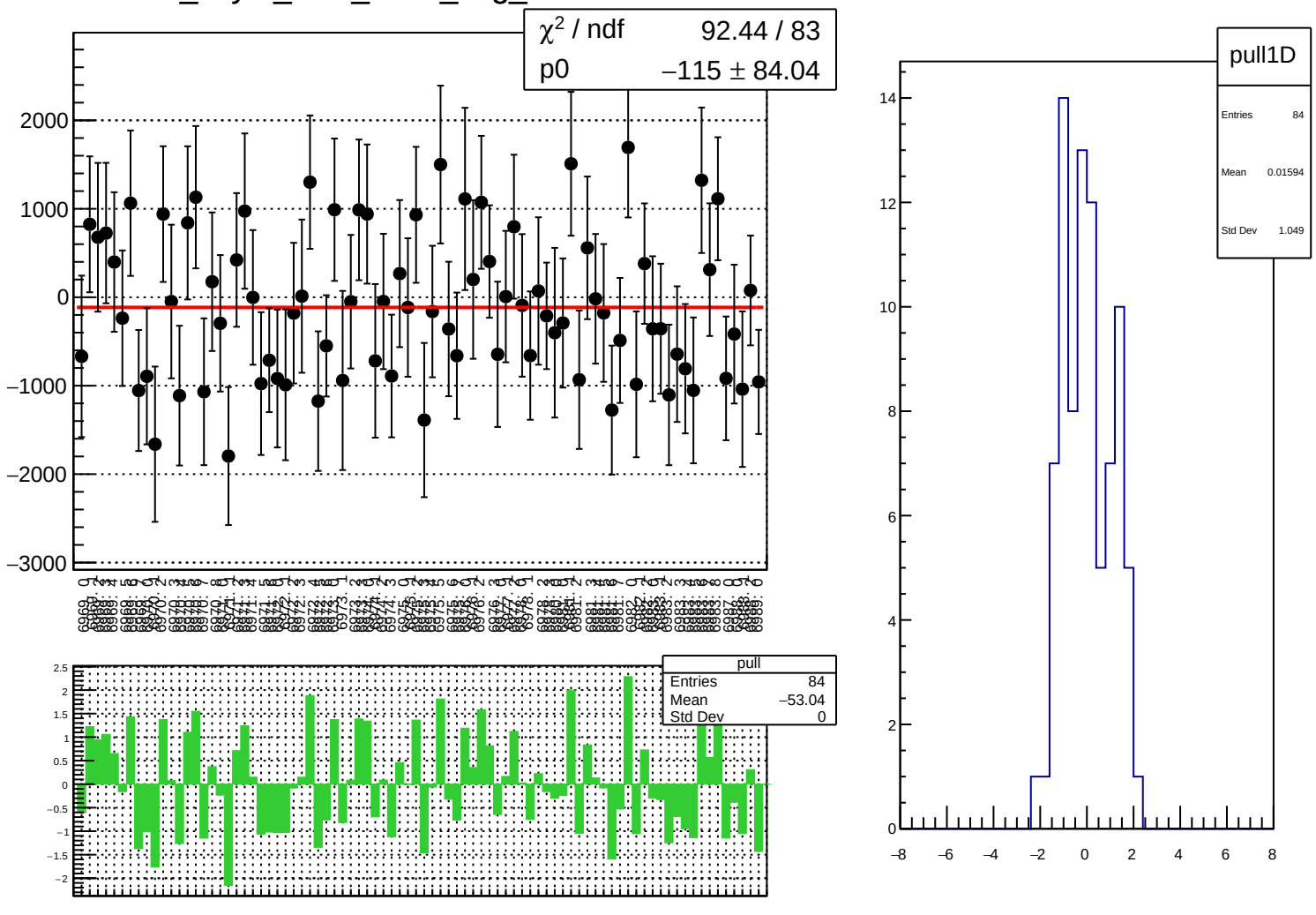

pull1D
Entries 84
Mean 0.01594
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

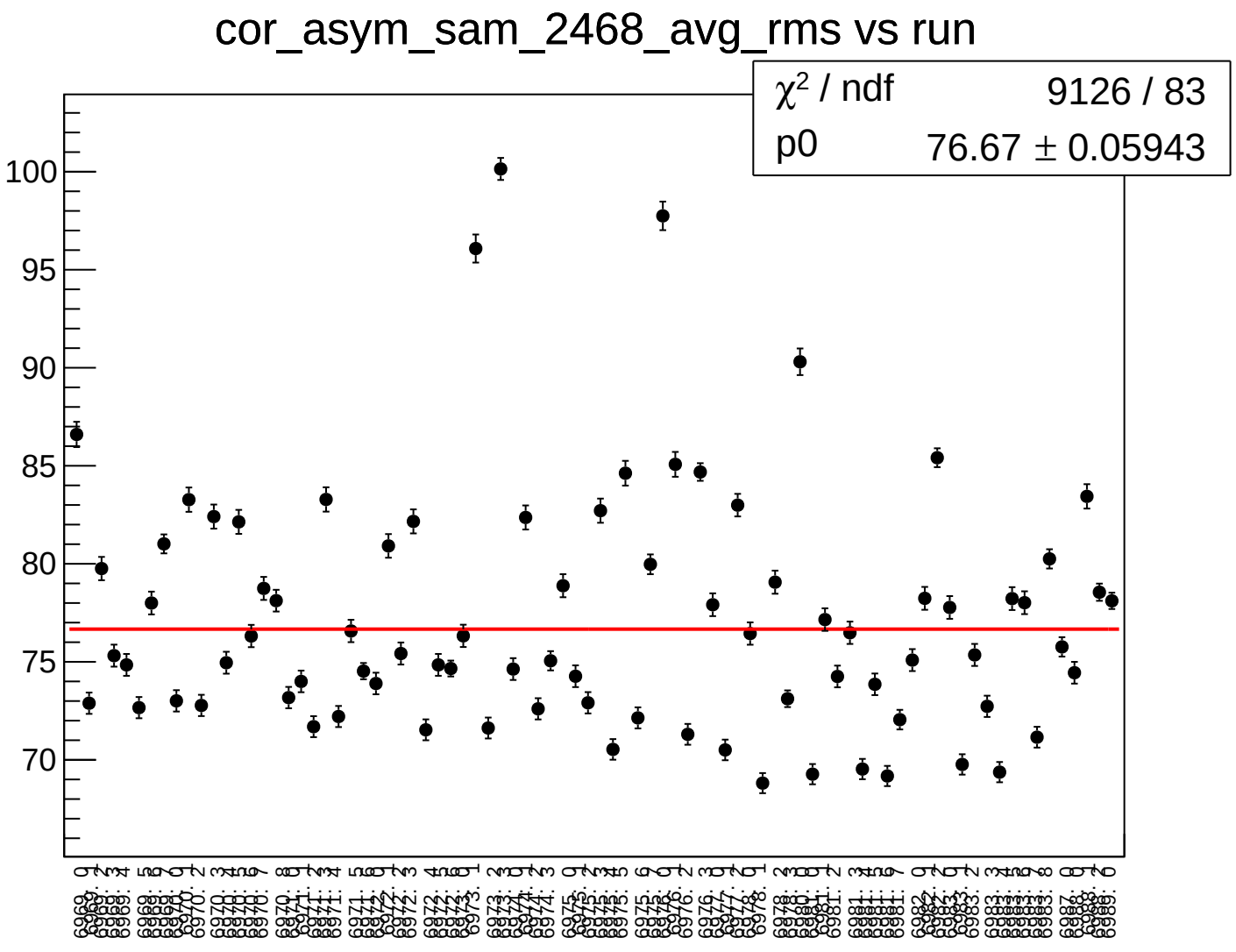

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 9126 / 83
p0 76.67 ± 0.05943
100
95
90
85
80
75
70

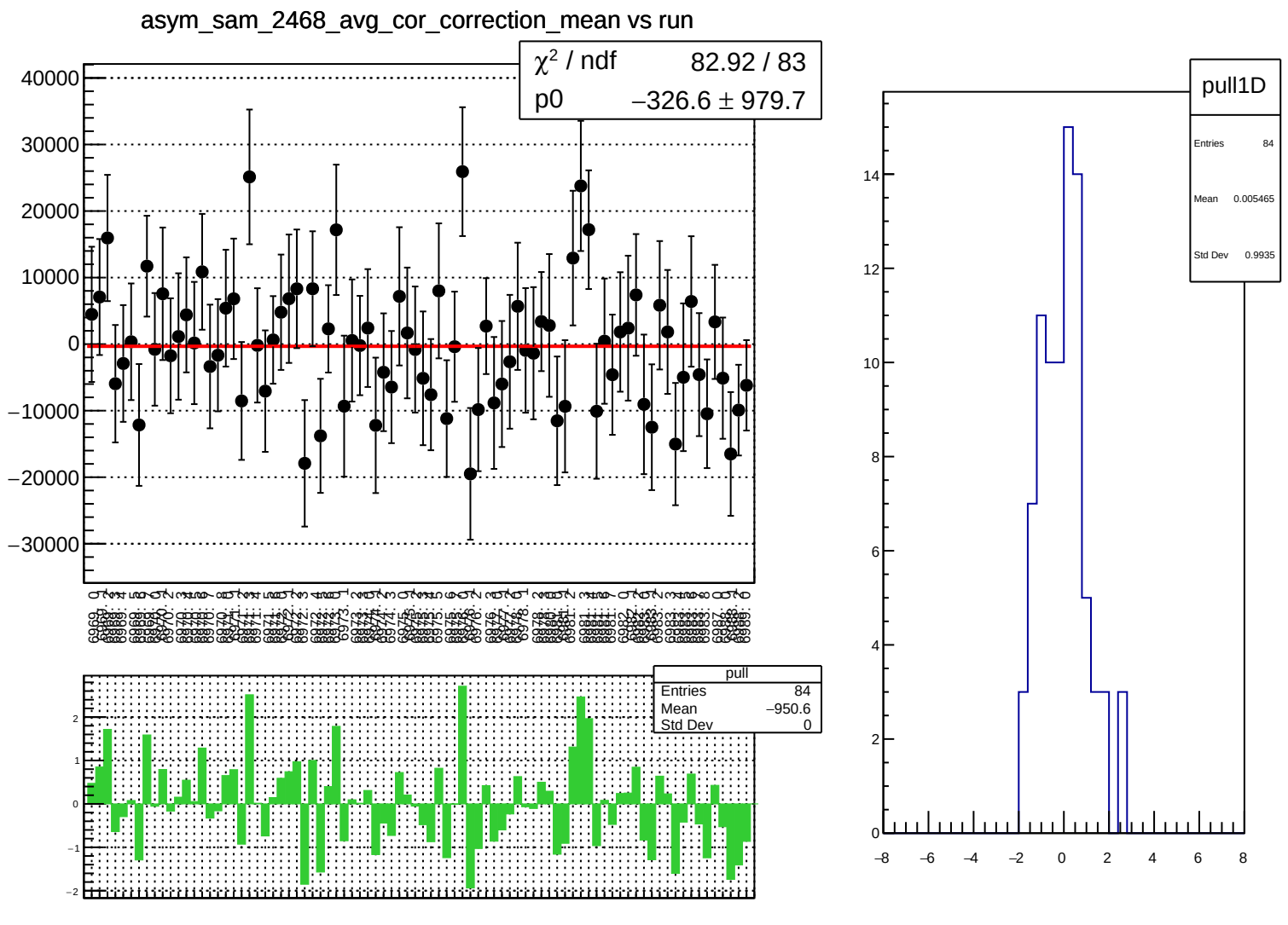

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 82.92 / 83
p0 −326.6 ± 979.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −950.6
Std Dev 0
2
1
0
−1
−2

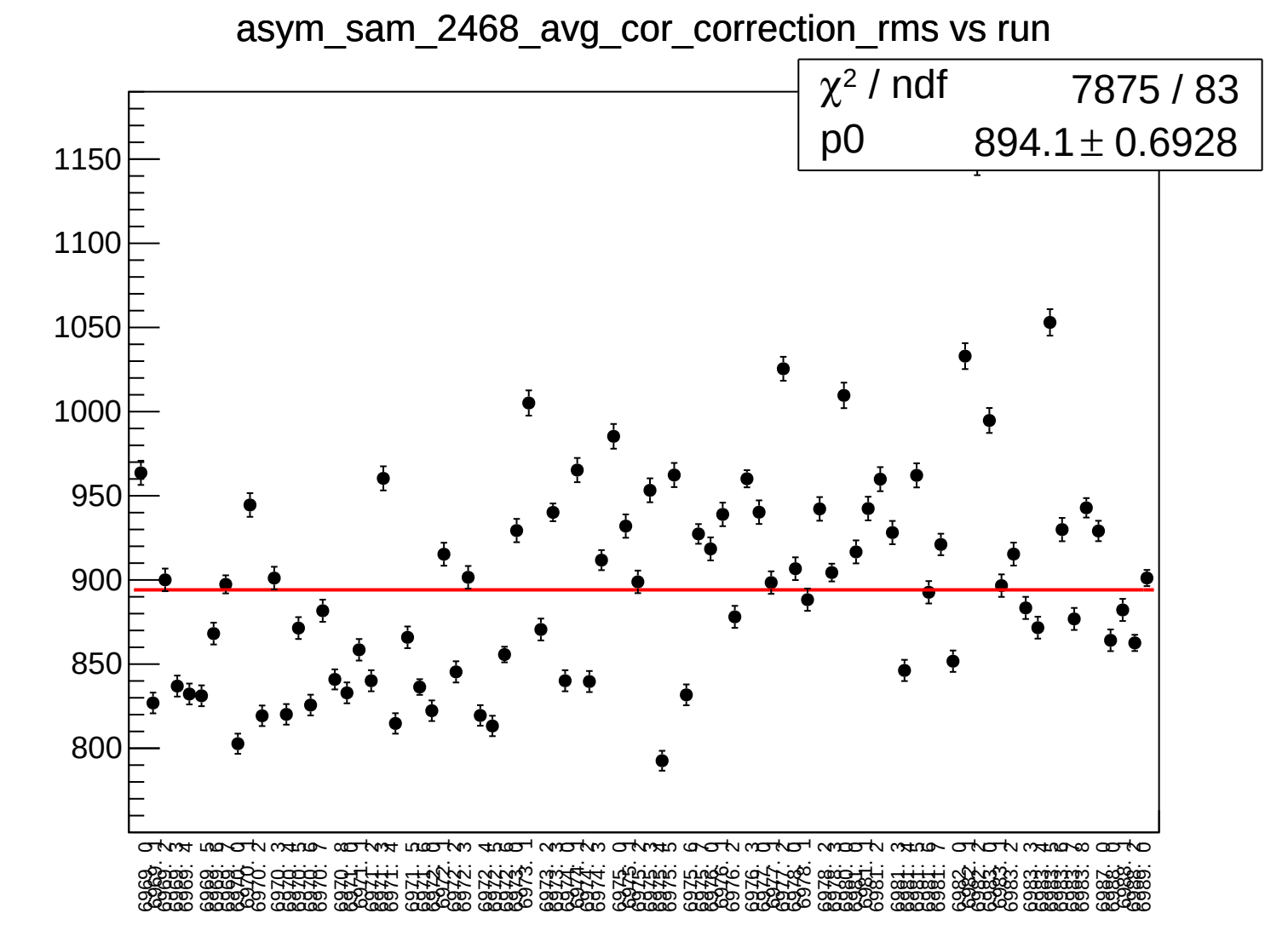

pull1D
Entries 84
Mean 0.005465
Std Dev 0.9935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

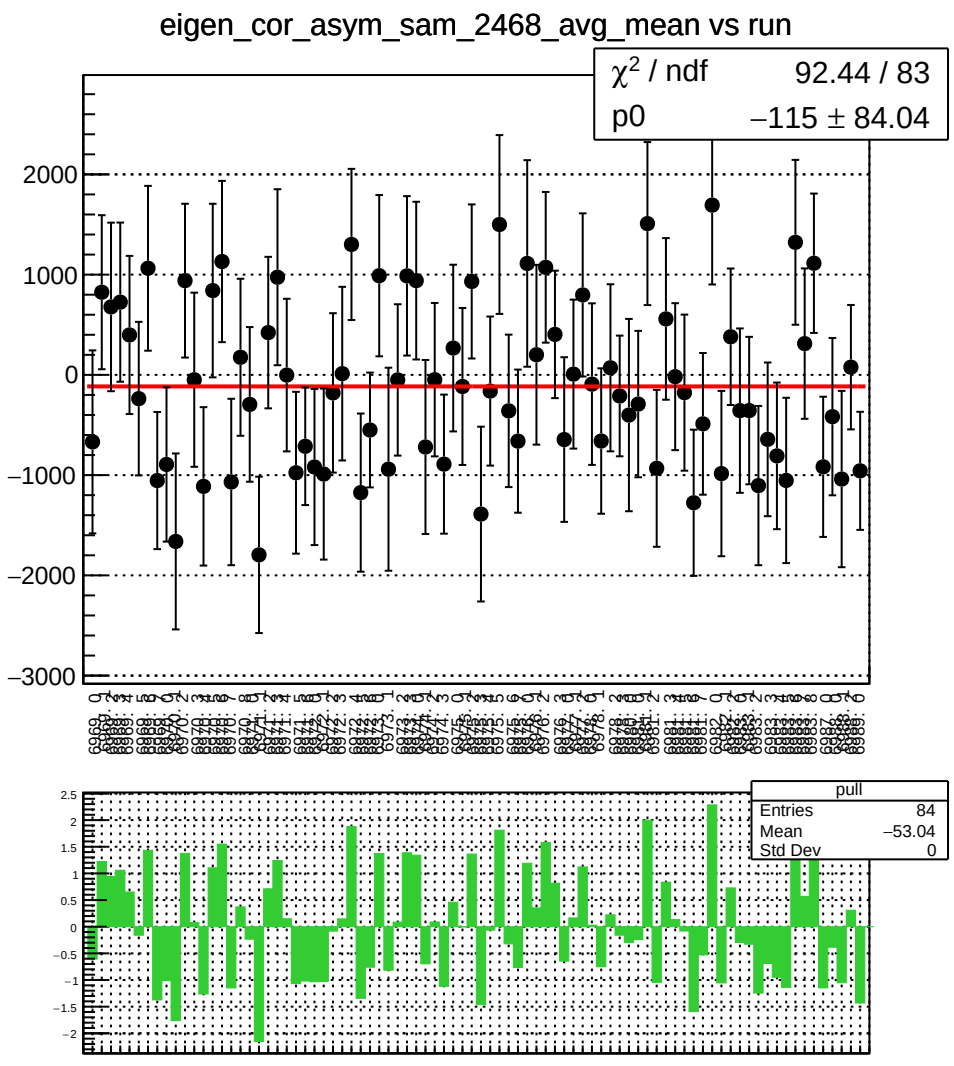

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 7875 / 83
p0 894.1 ± 0.6928
1150
1100
1050
1000
950
900
850
800

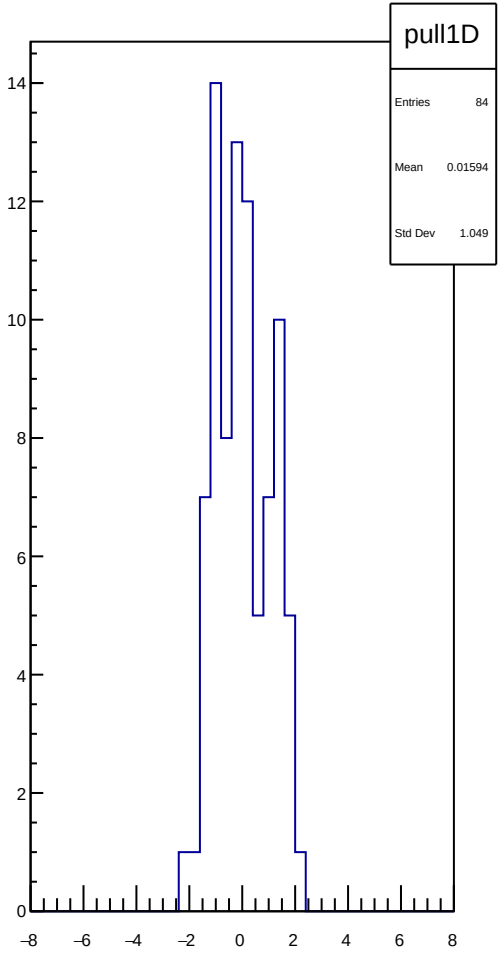

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 92.44 / 83
p0 −115 ± 84.04
pull
Entries 84
Mean −53.04
Std Dev 0
pull1D
Entries 84
Mean 0.01594
Std Dev 1.049

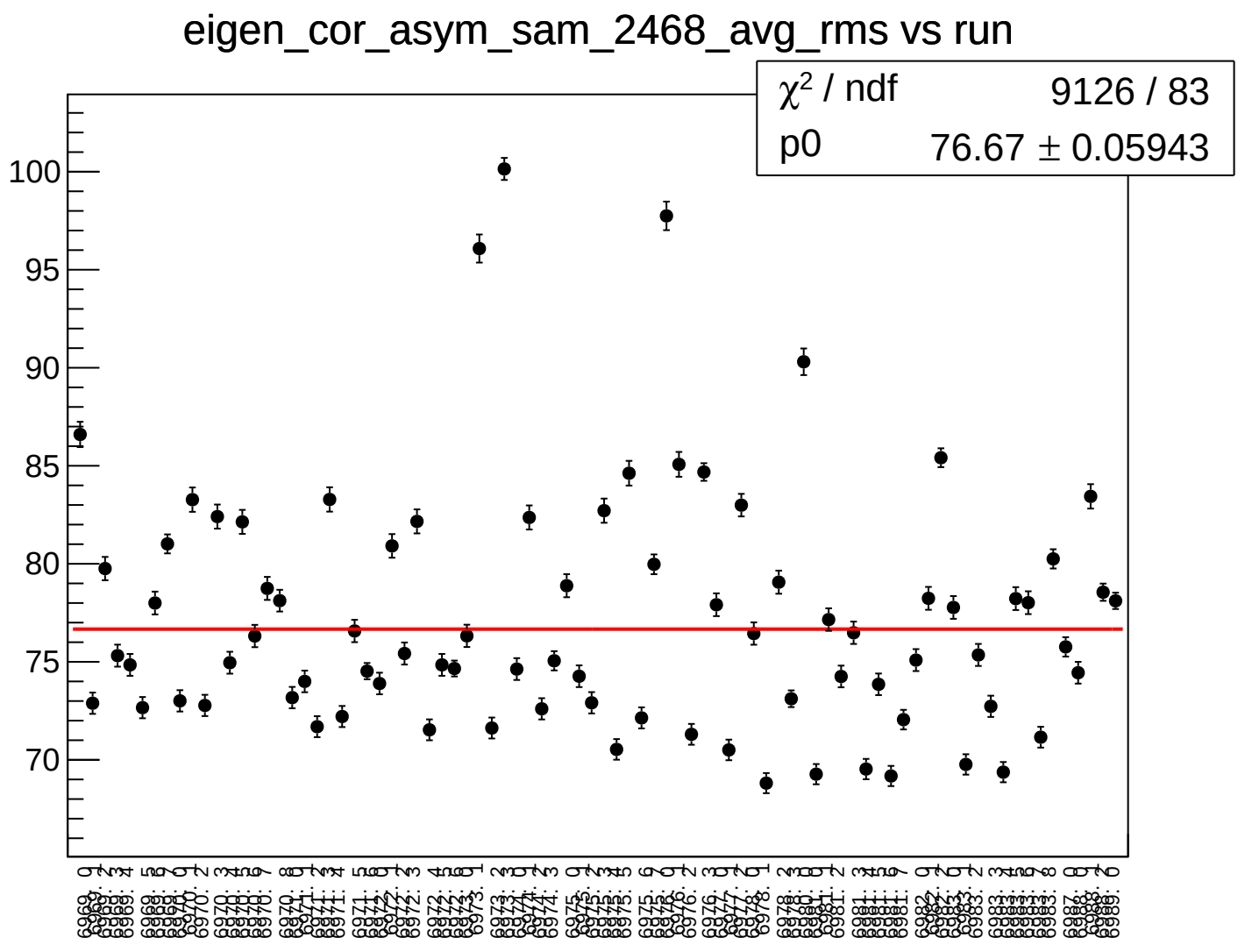

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 9126 / 83
p0 76.67 ± 0.05943
100
95
90
85
80
75
70

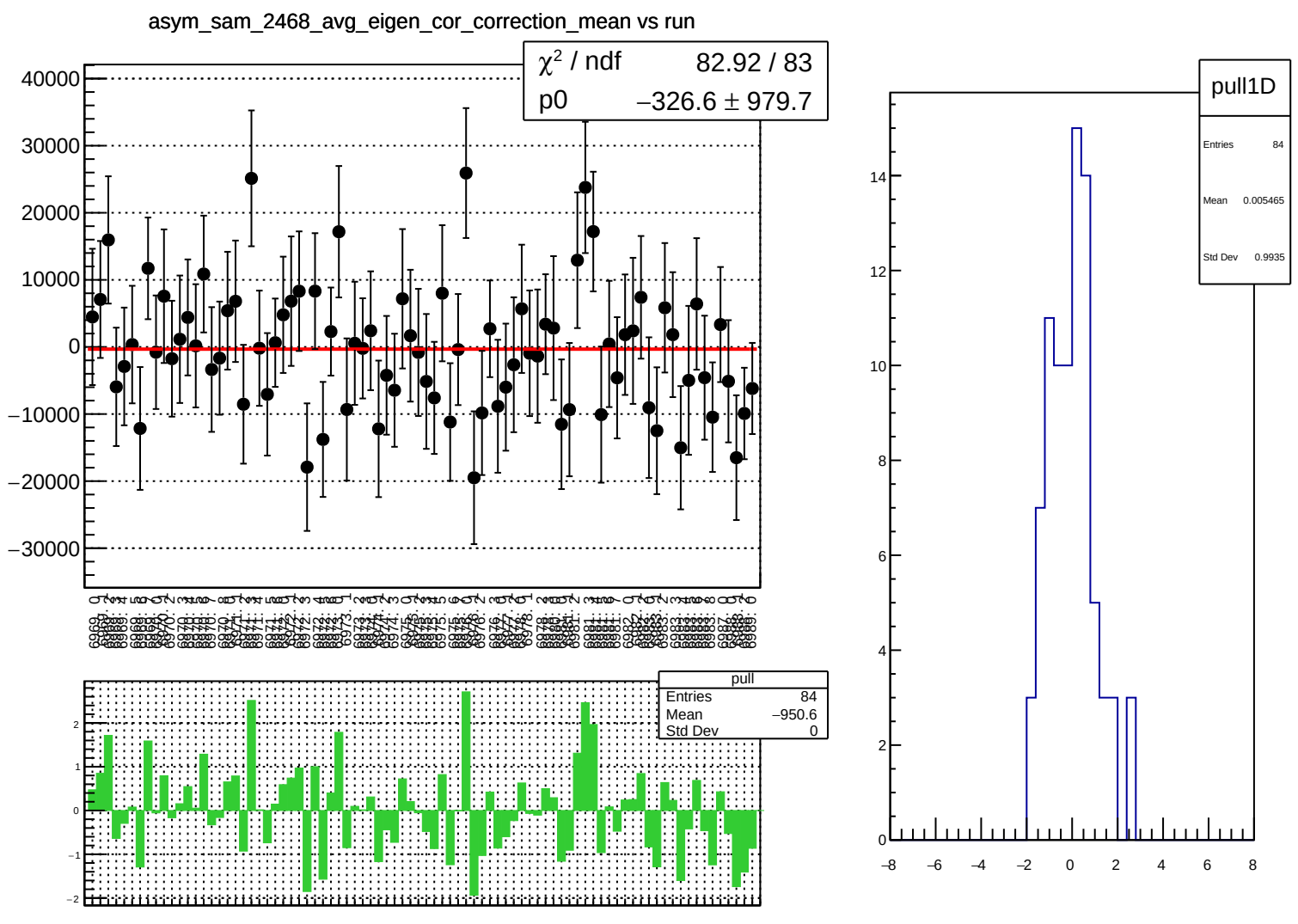

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 82.92 / 83
p0 −326.6 ± 979.7
pull
Entries 84
Mean −950.6
Std Dev 0
pull1D
Entries 84
Mean 0.005465
Std Dev 0.9935

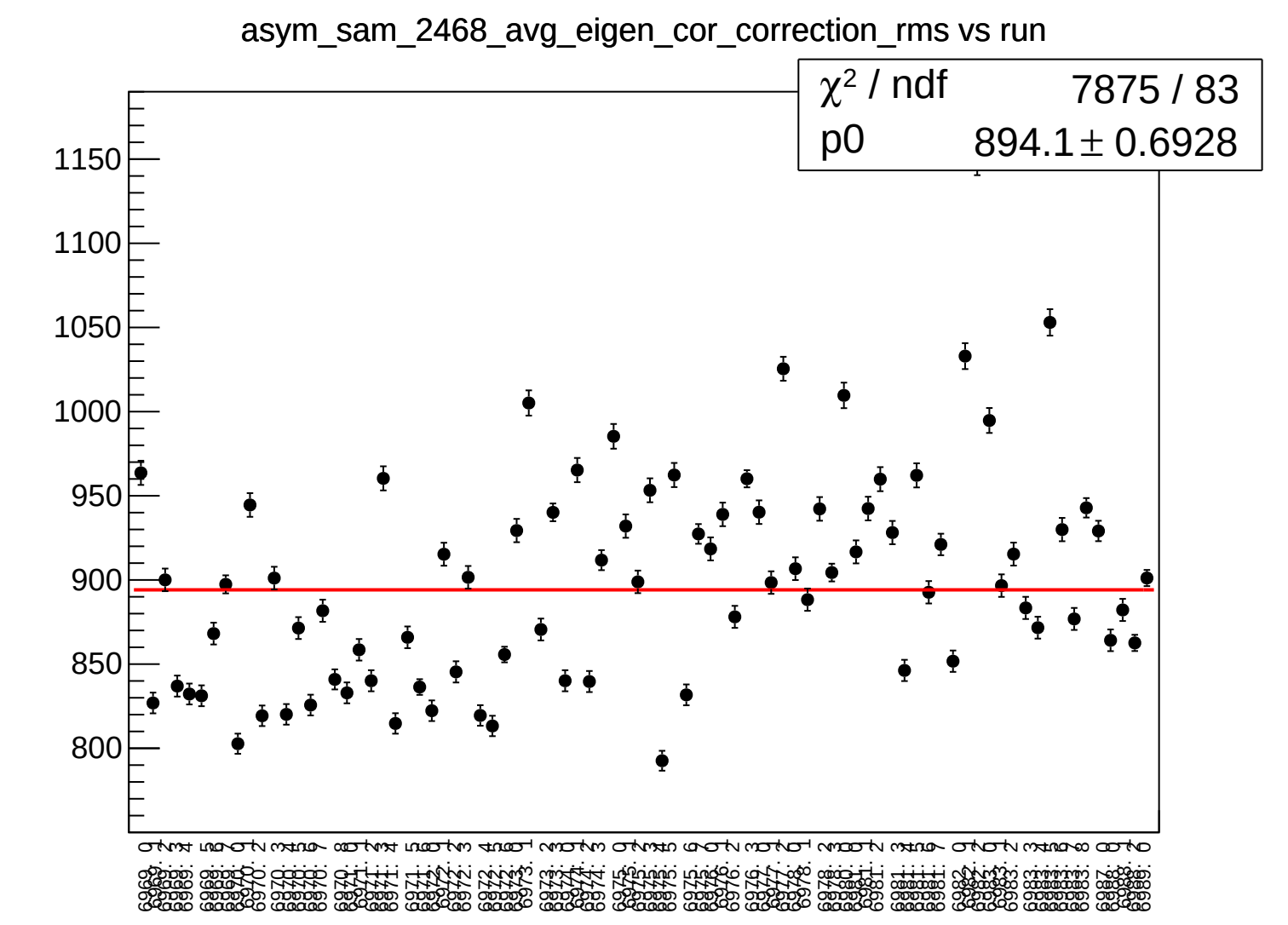

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 7875 / 83
p0 894.1 ± 0.6928
1150
1100
1050
1000
950
900
850
800

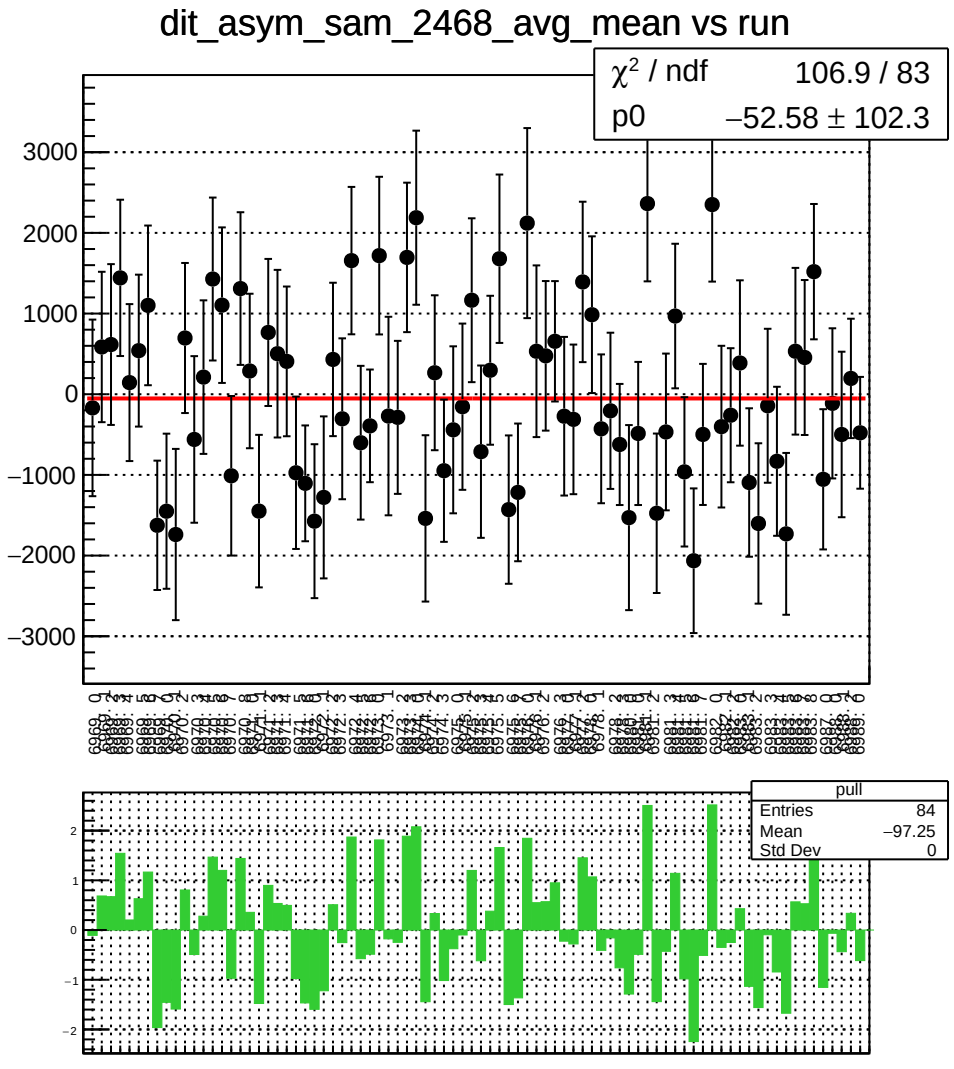

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 92.44 / 83
p0 −115 ± 84.04
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −53.04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

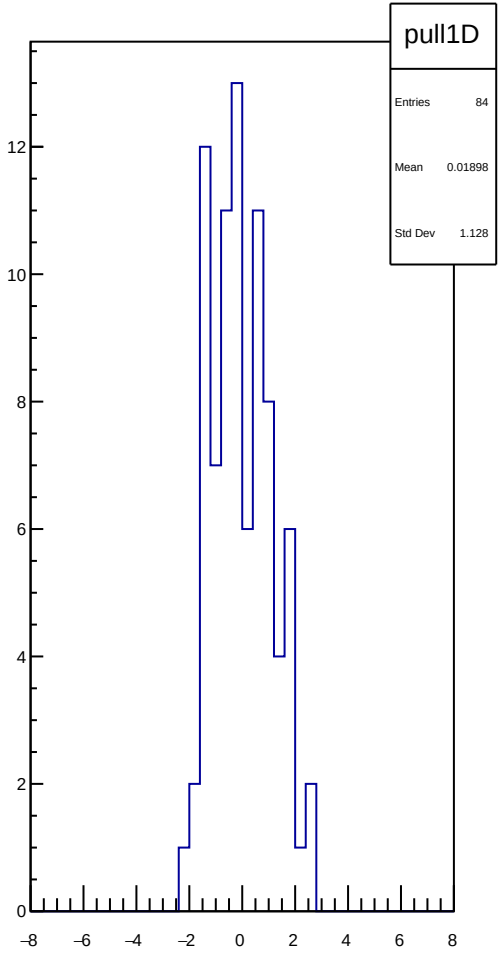

pull1D
Entries 84
Mean 0.01594
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

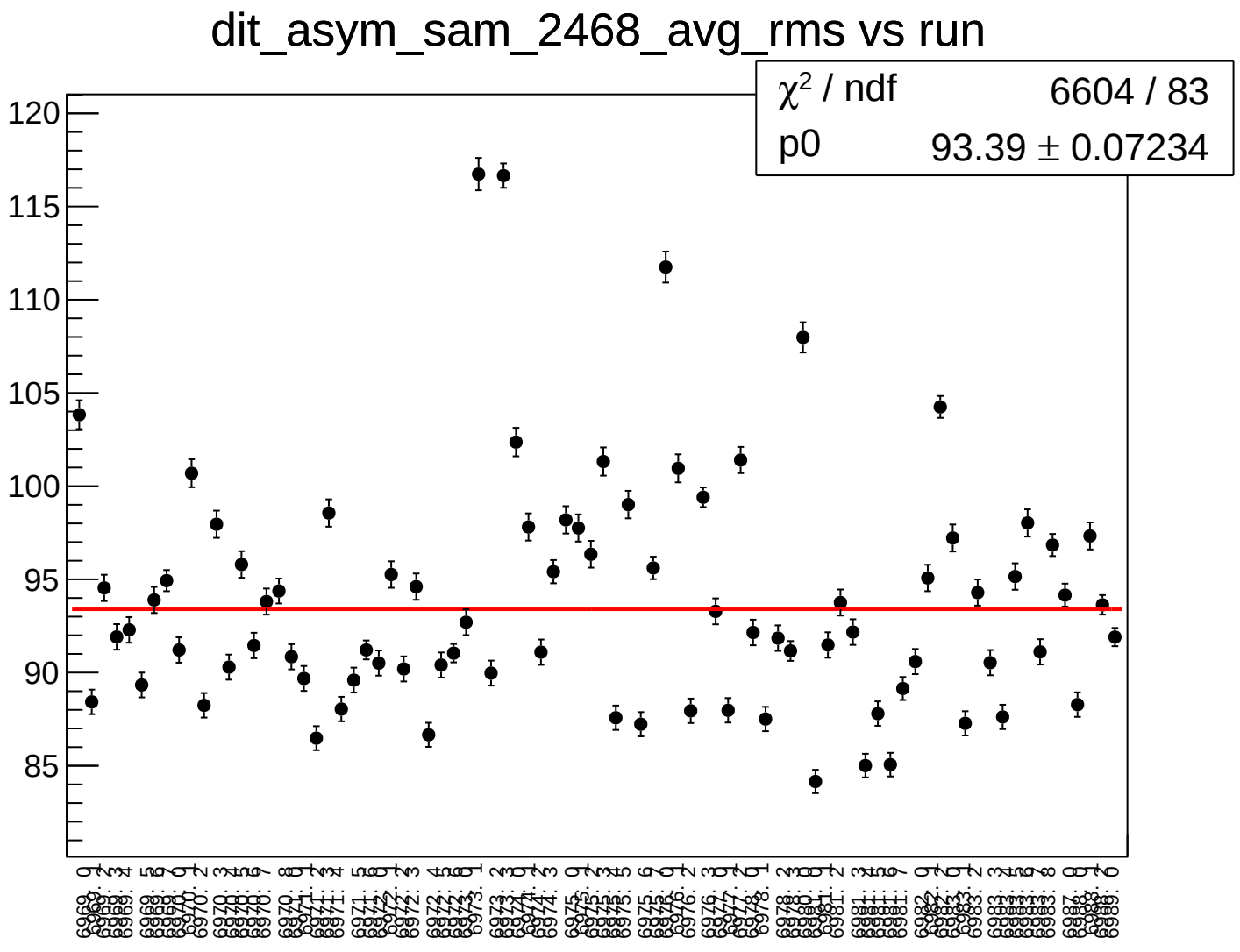

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 9126 / 83
p0 76.67 ± 0.05943
100
95
90
85
80
75
70

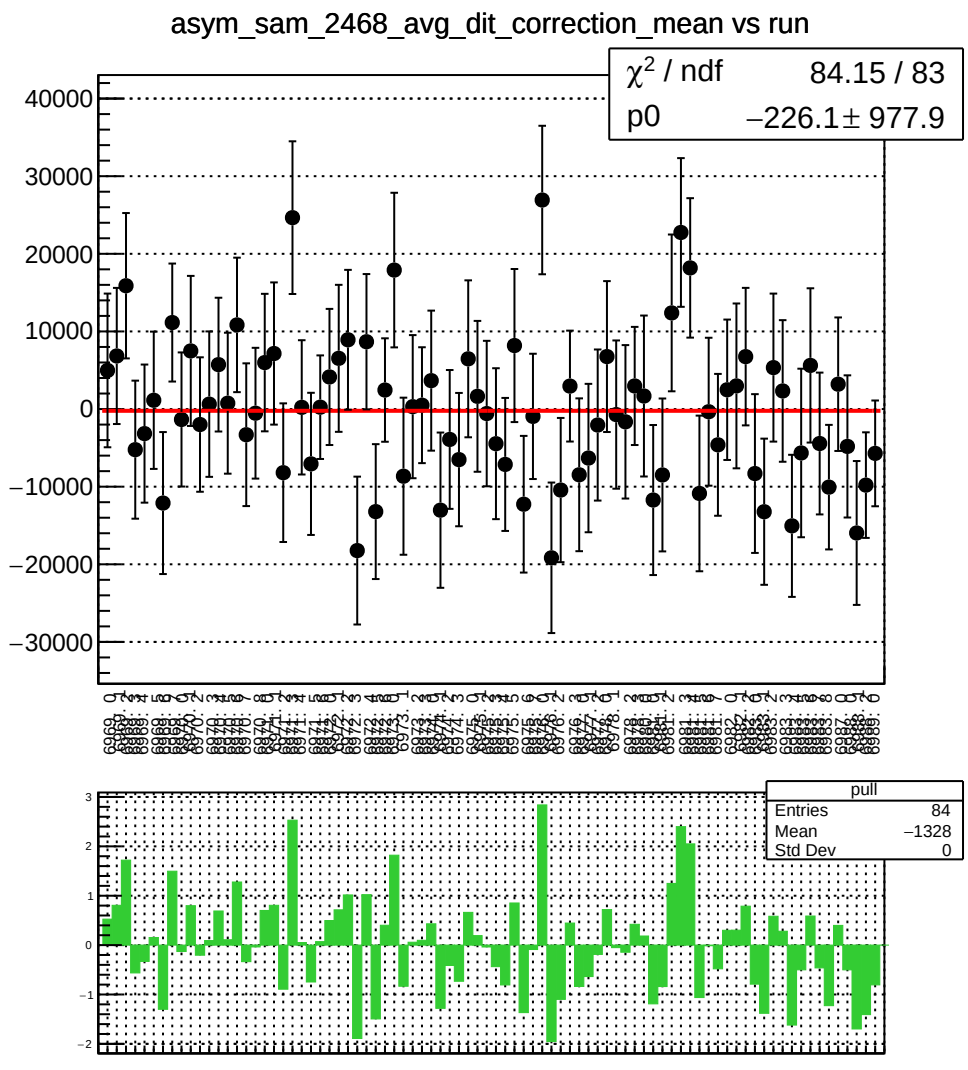

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.92 / 83
p0 −326.6 ± 979.7
pull
Entries 84
Mean −950.6
Std Dev 0
pull1D
Entries 84
Mean 0.005465
Std Dev 0.9935

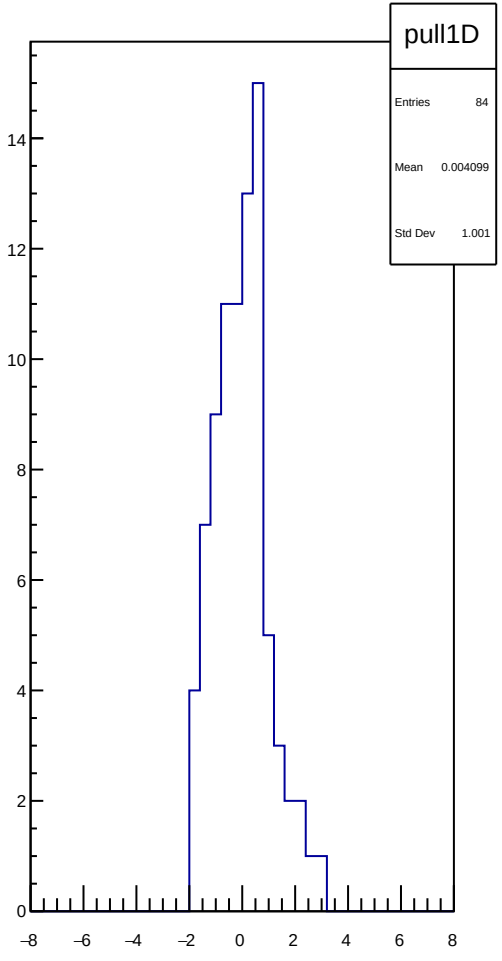

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 7875 / 83
p0 894.1 ± 0.6928
1150
1100
1050
1000
950
900
850
800

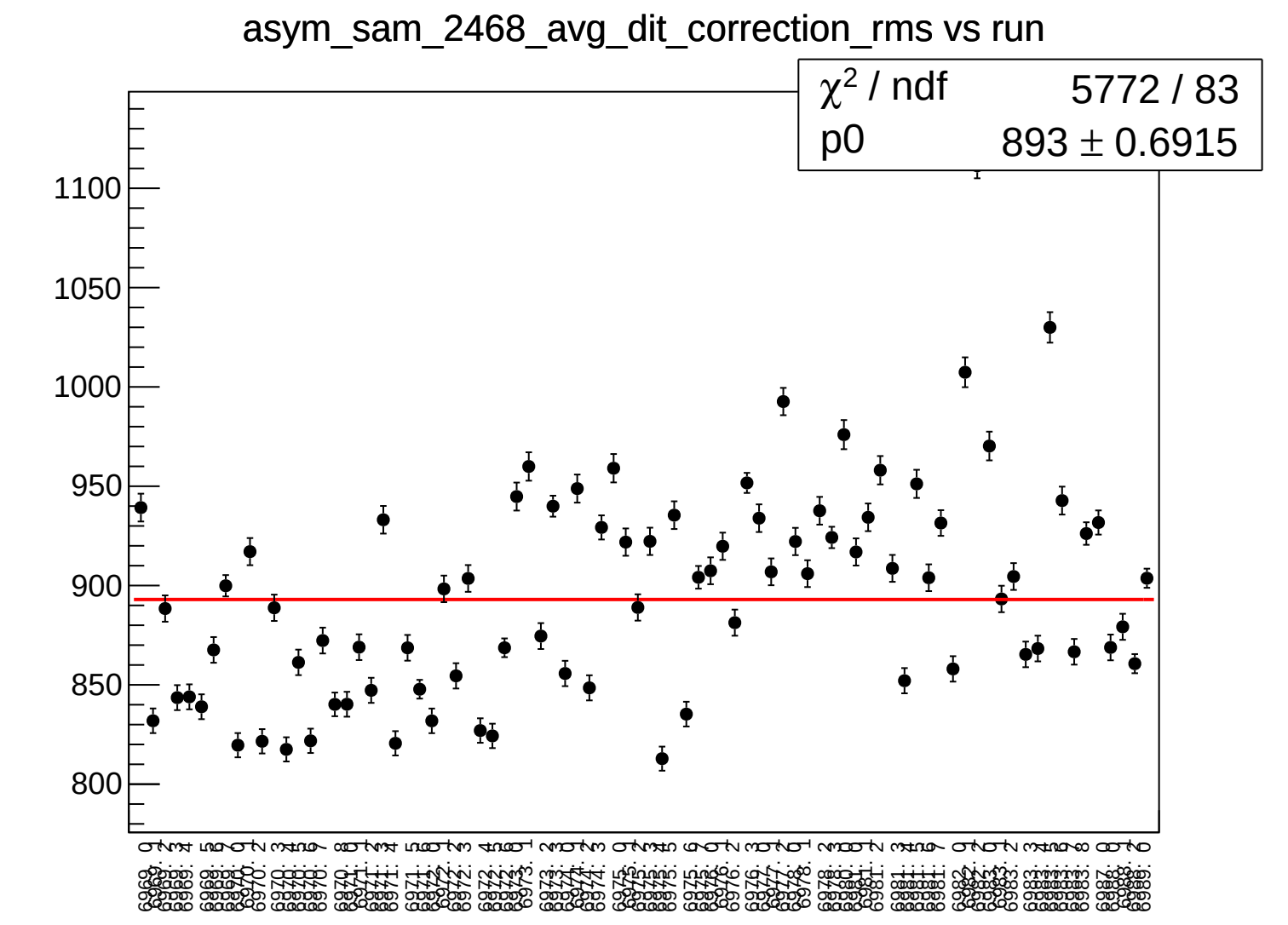

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 106.9 / 83
p0 −52.58 ± 102.3
pull
Entries 84
Mean −97.25
Std Dev 0

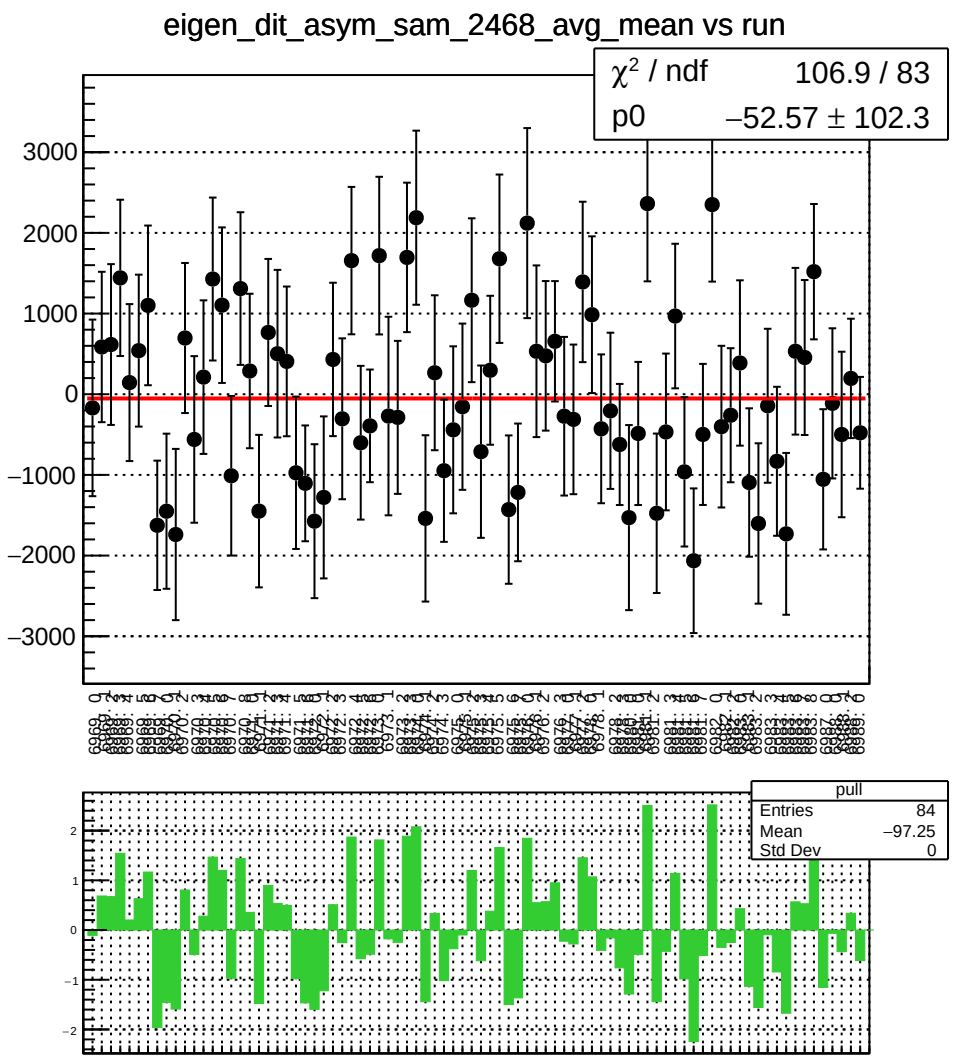

pull1D
Entries 84
Mean 0.01898
Std Dev 1.128

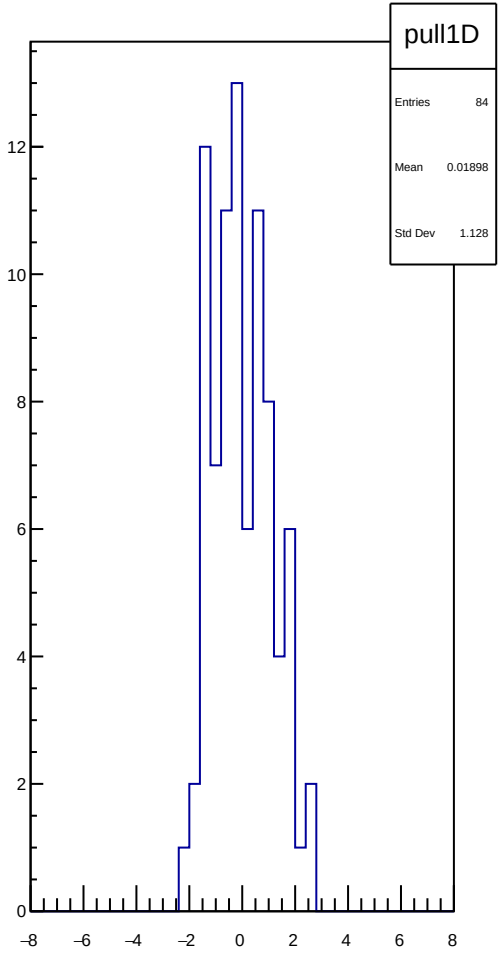

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 6604 / 83
p0 93.39 ± 0.07234
120
115
110
105
100
95
90
85

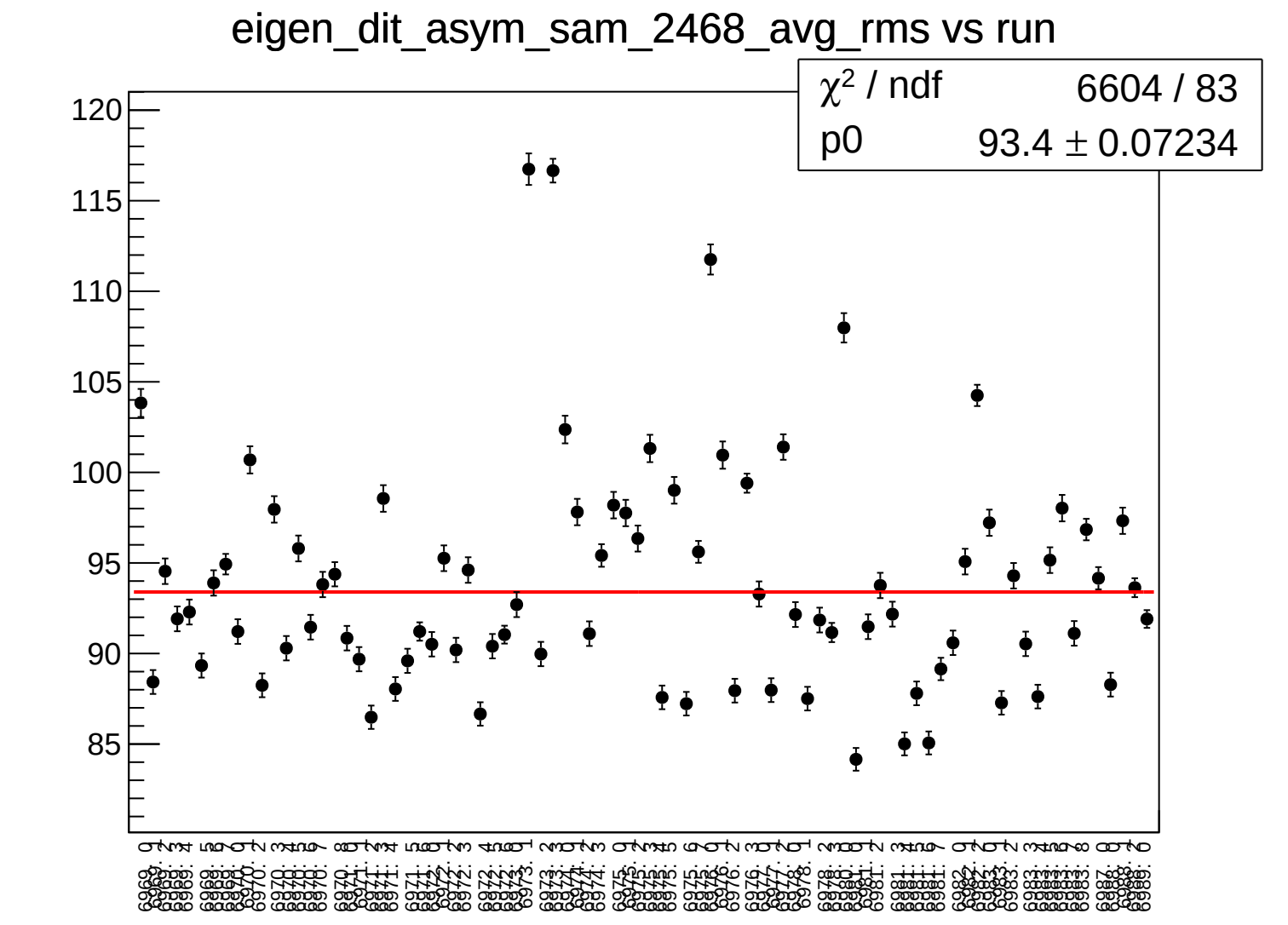

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 84.15 / 83
p0 −226.1± 977.9
pull
Entries 84
Mean −1328
Std Dev 0

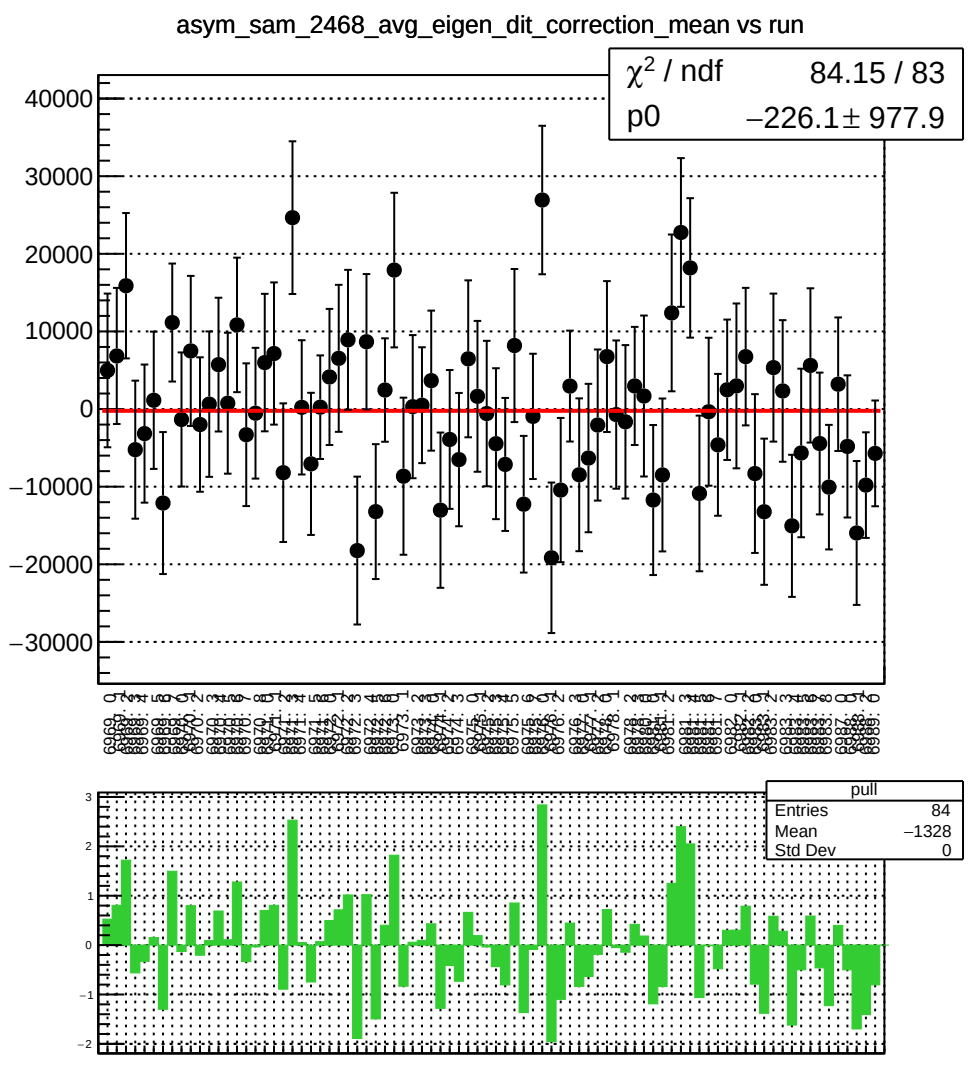

pull1D
Entries 84
Mean 0.004099
Std Dev 1.001

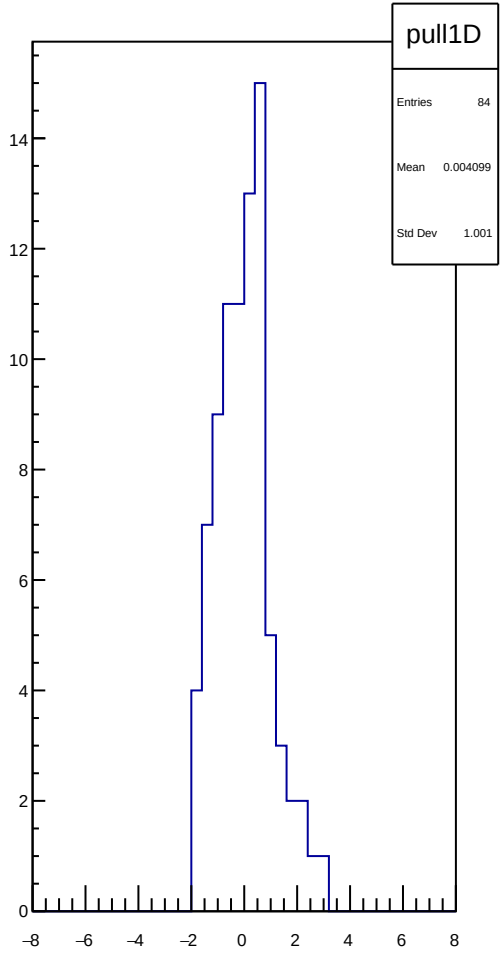

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 5772 / 83
p0 893 ± 0.6915
1100
1050
1000
950
900
850
800

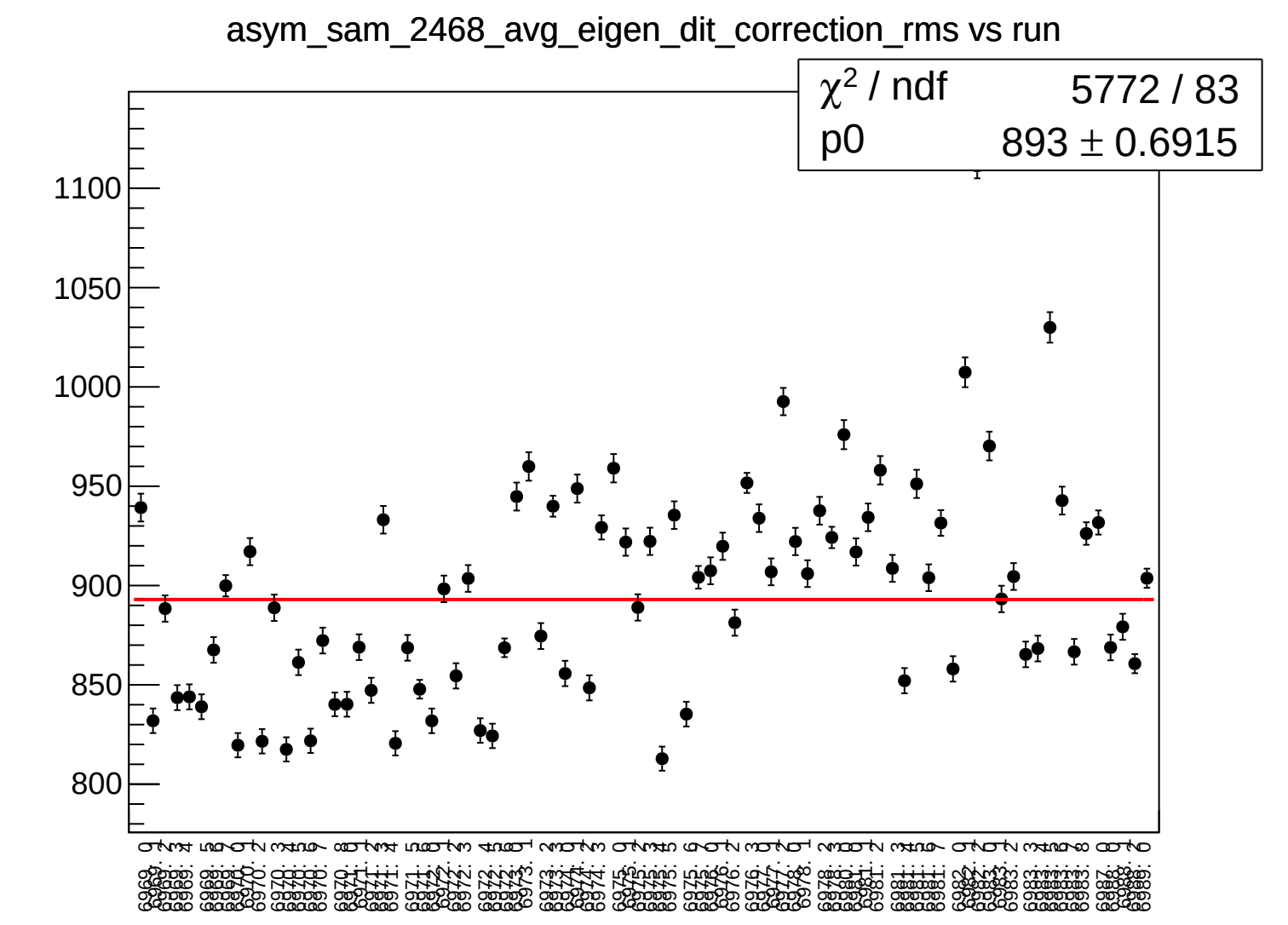

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 106.9 / 83
p0 −52.57 ± 102.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −97.25
Std Dev 0
2
1
0
−1
−2

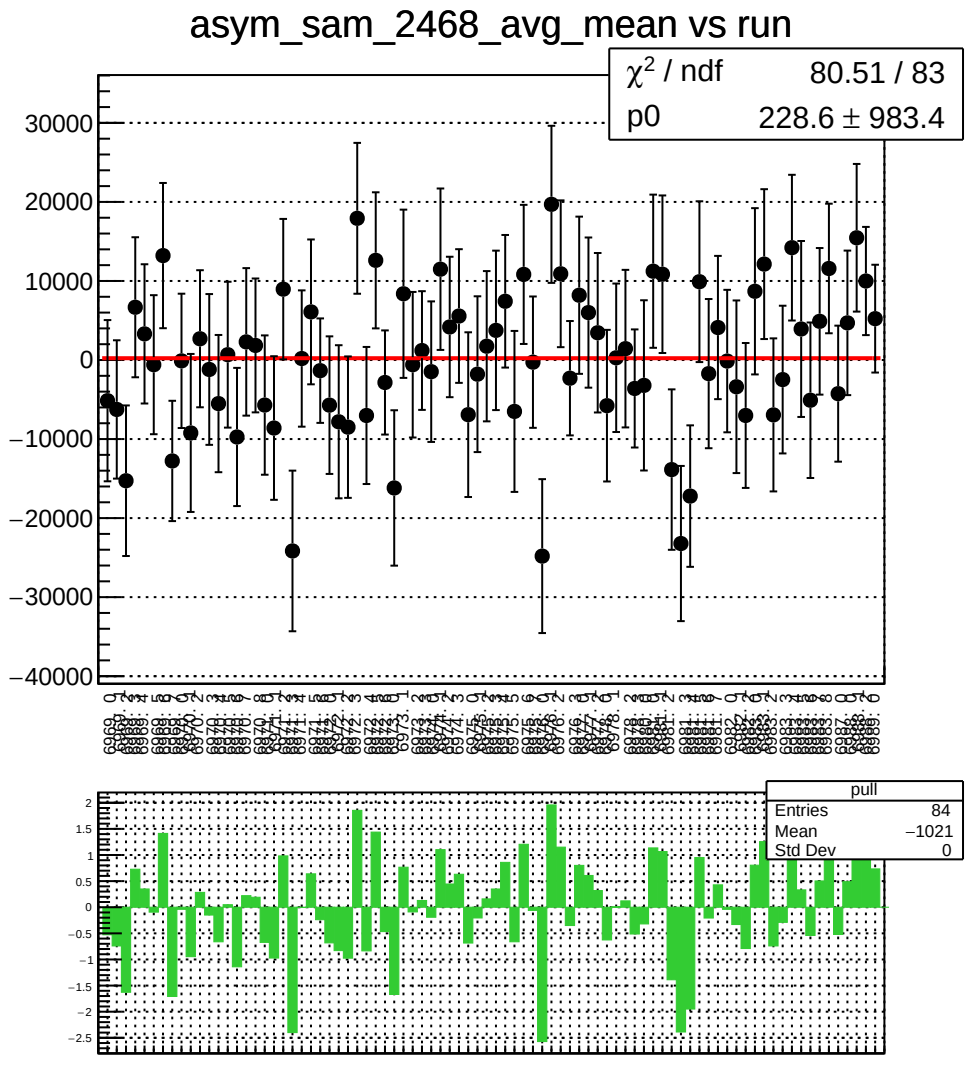

pull1D
Entries 84
Mean 0.01898
Std Dev 1.128
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

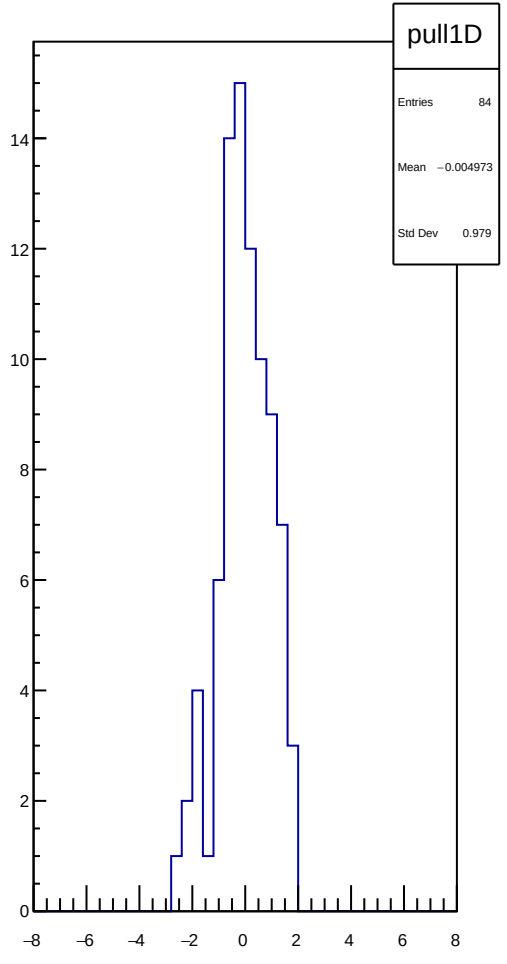

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 6604 / 83
p0 93.4 ± 0.07234
120
115
110
105
100
95
90
85

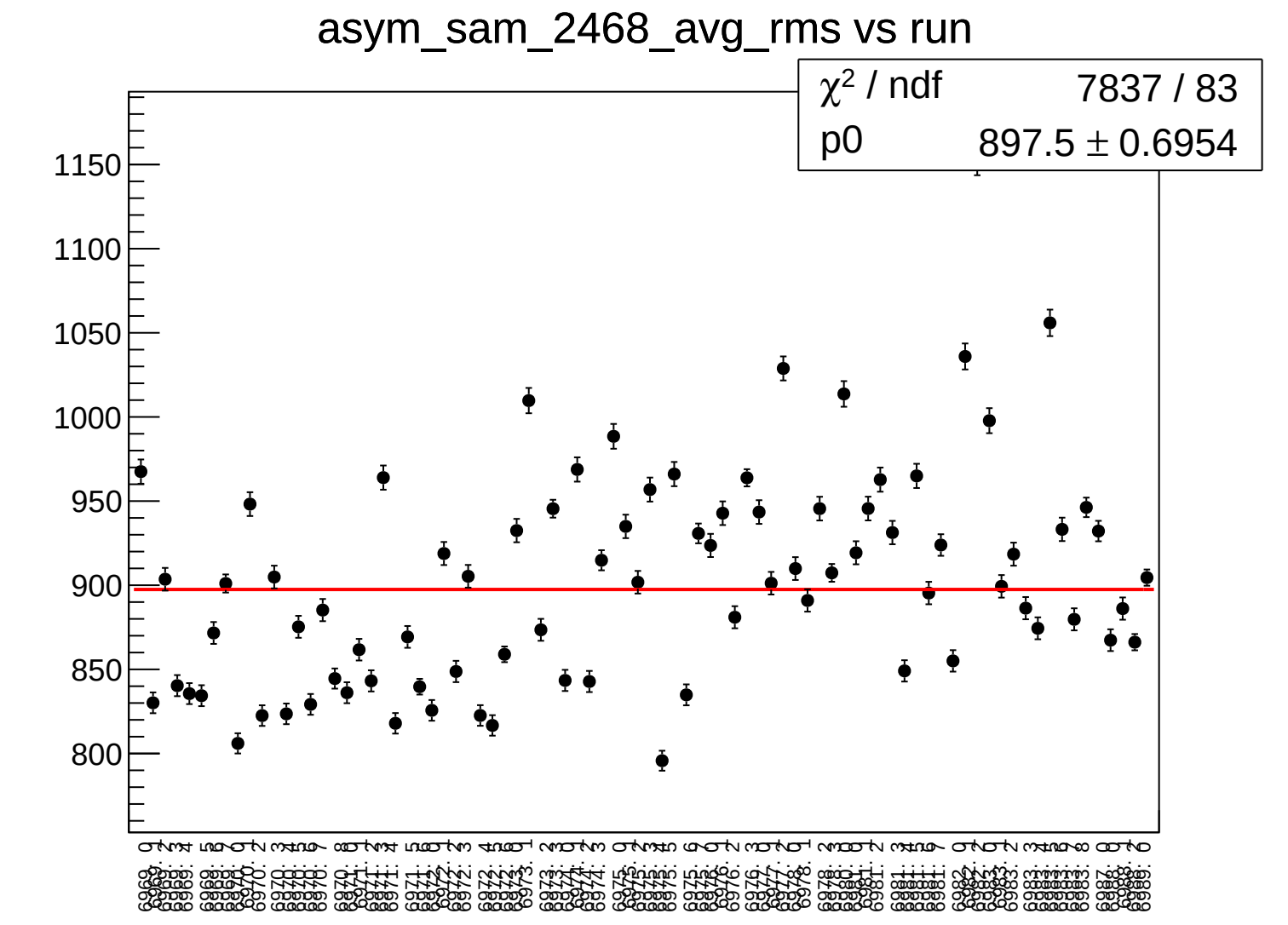

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.15 / 83
p0 −226.1 ± 977.9
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −1328
Std Dev 0
3
2
1
0
−1
−2

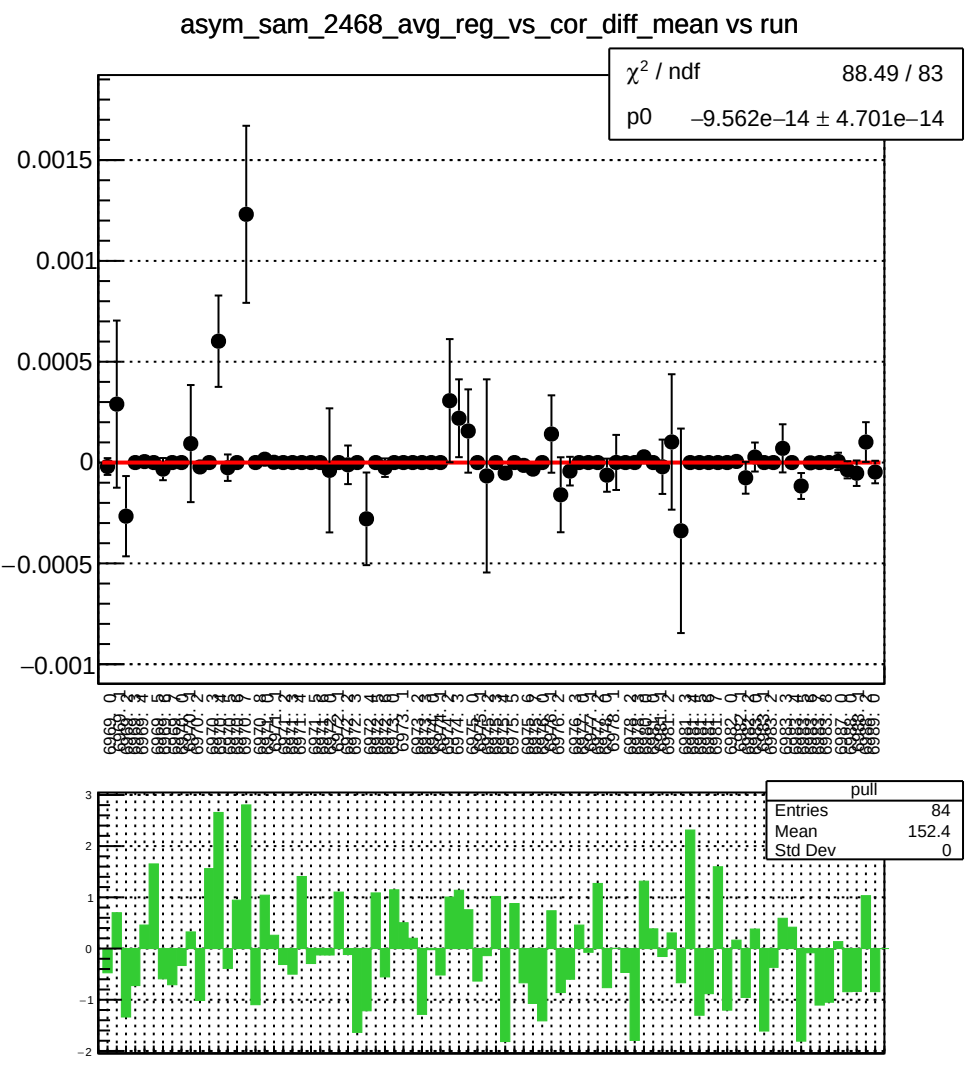

pull1D
Entries 84
Mean 0.004099
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

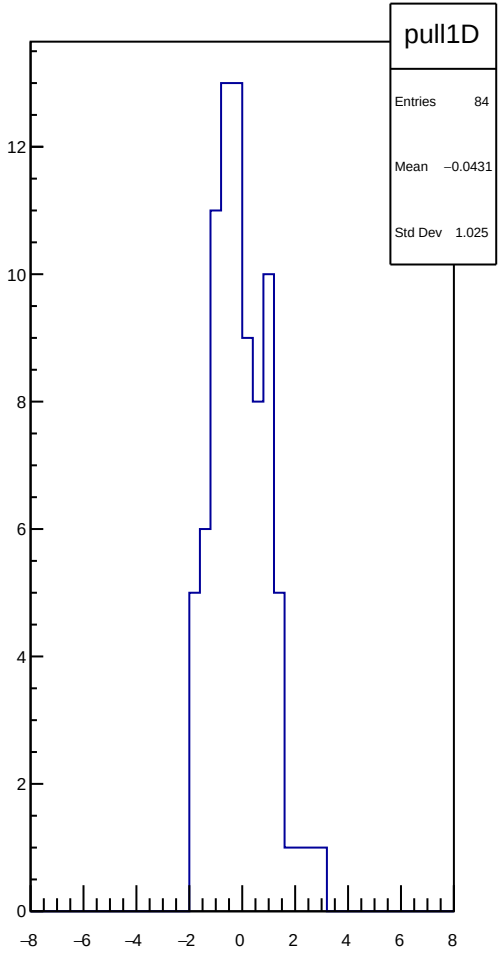

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 5772 / 83
p0 893 ± 0.6915
1100
1050
1000
950
900
850
800

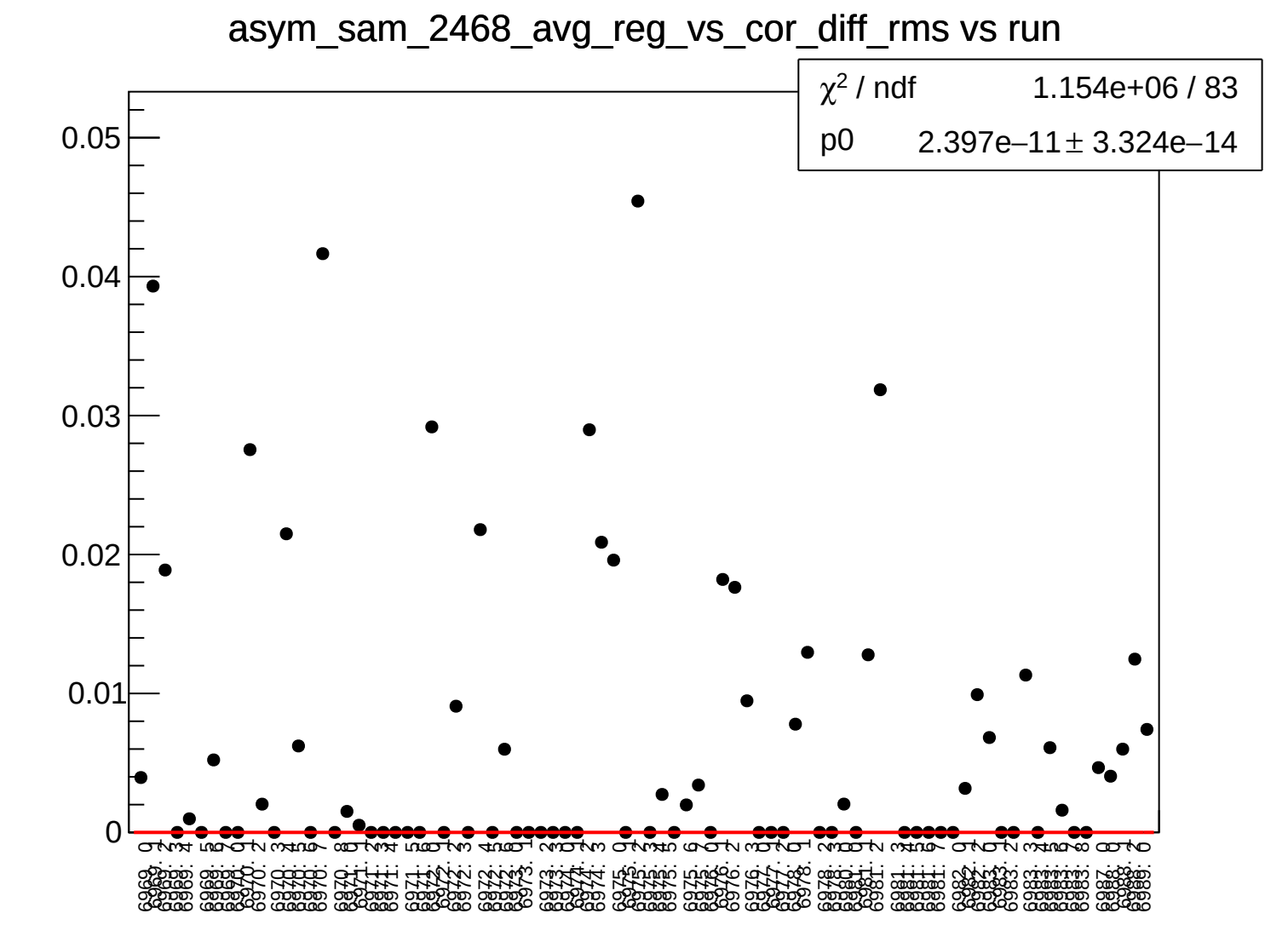

asym_sam_2468_avg_mean vs run
χ² / ndf 80.51 / 83
p0 228.6 ± 983.4
pull
Entries 84
Mean −1021
Std Dev 0

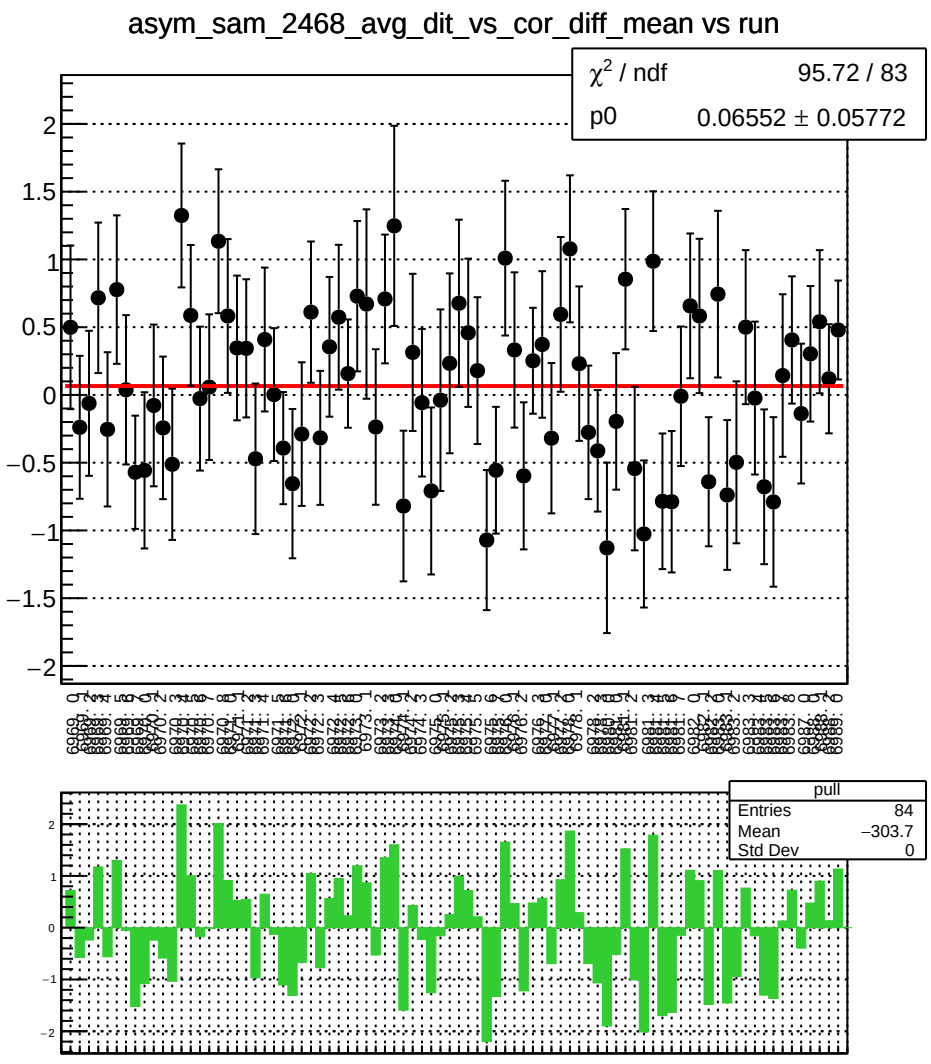

pull1D
Entries 84
Mean −0.004973
Std Dev 0.979

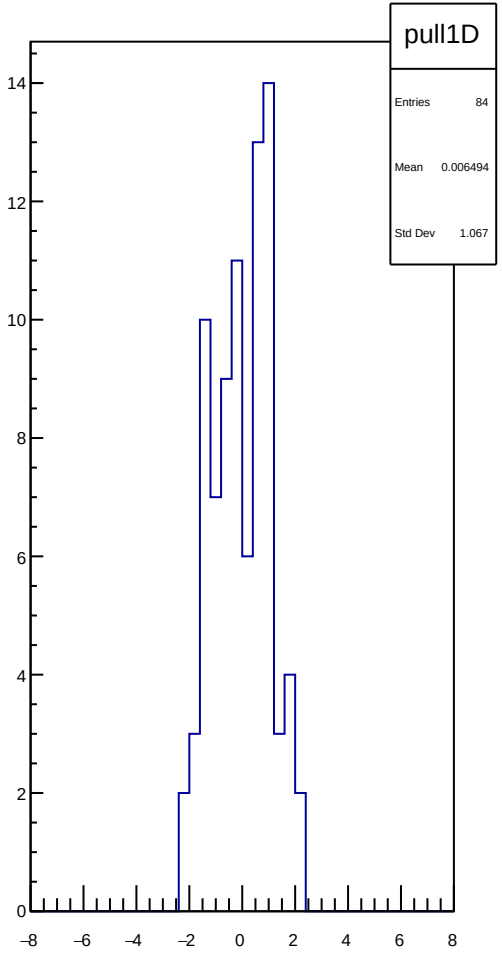

asym_sam_2468_avg_rms vs run
χ² / ndf 7837 / 83
p0 897.5 ± 0.6954
1150
1100
1050
1000
950
900
850
800

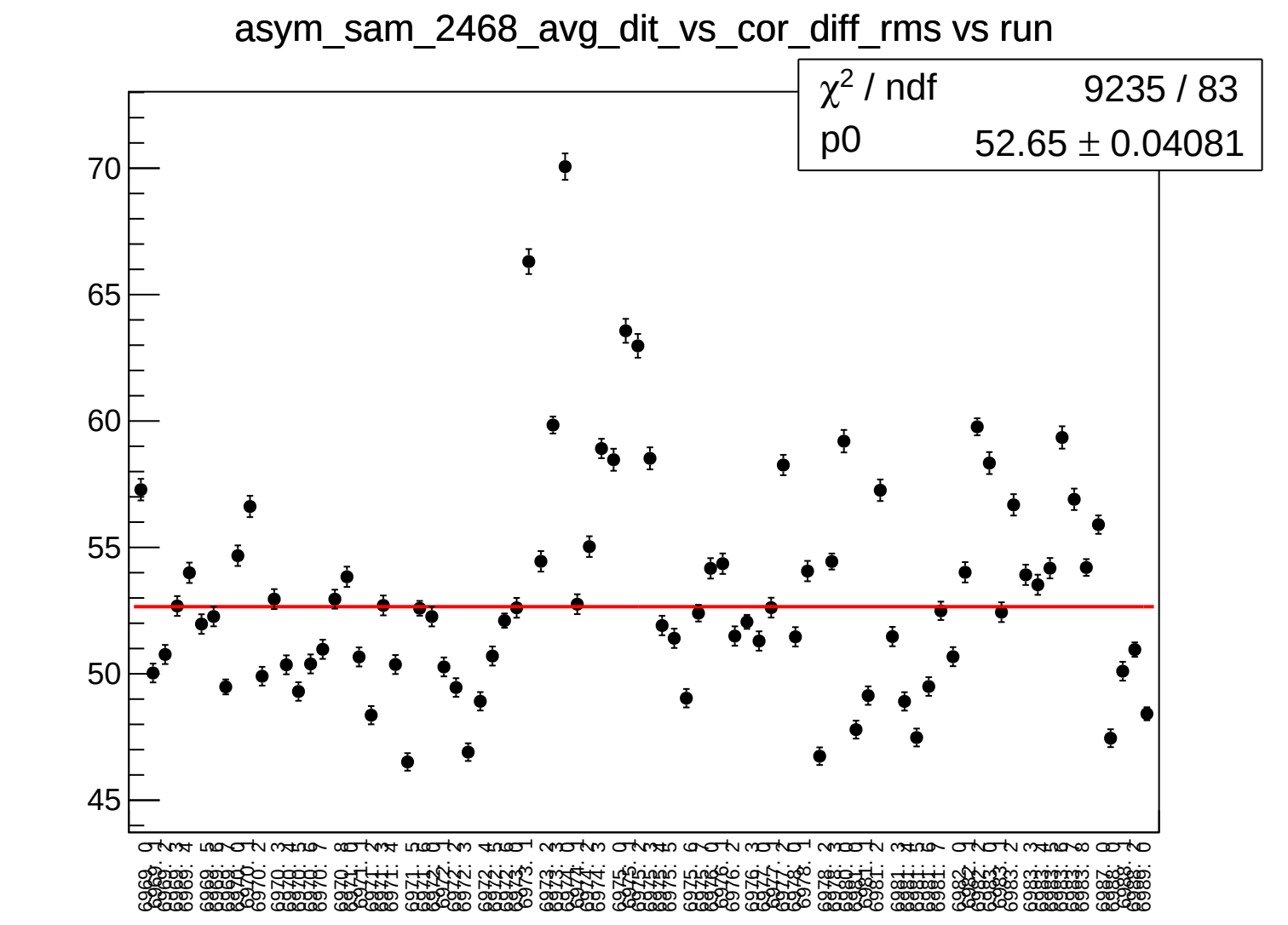

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.49 / 83
p0 −9.562e−14 ± 4.701e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean 152.4
Std Dev 0
3
2
1
0
−1
−2

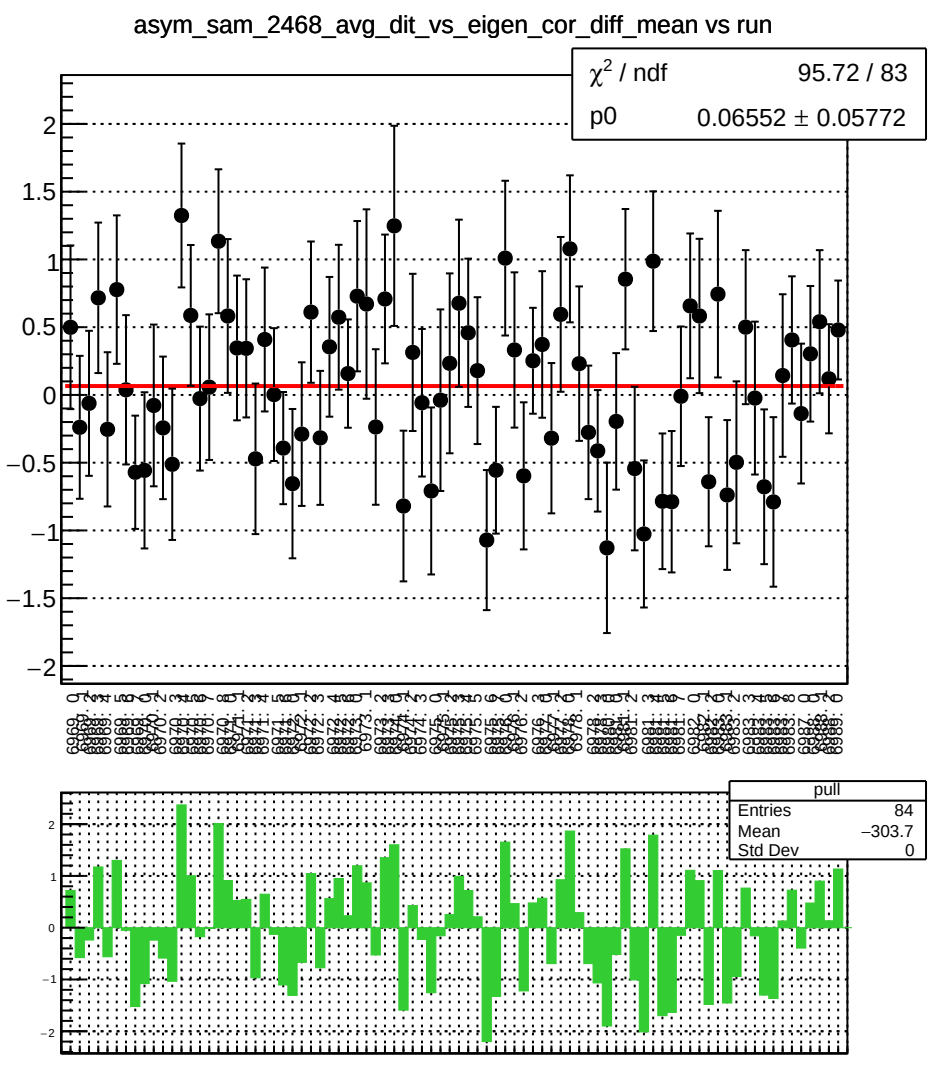

pull1D
Entries 84
Mean −0.0431
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

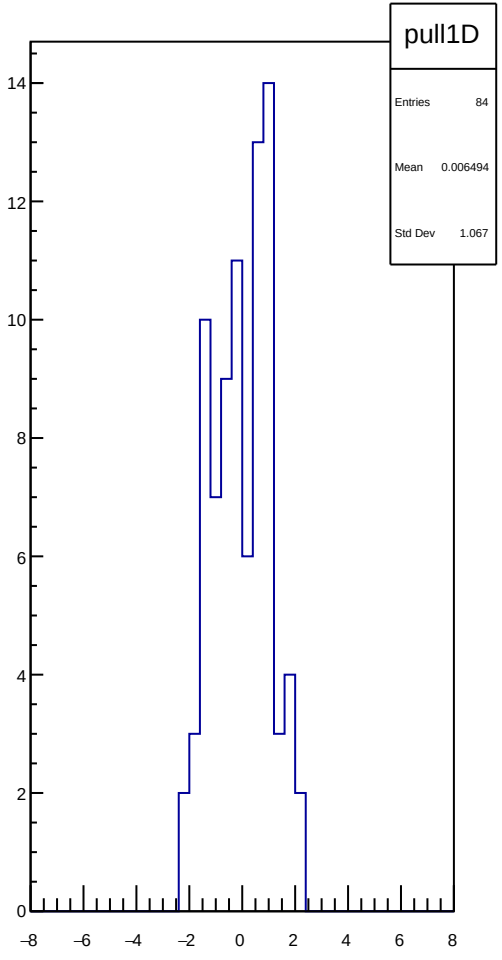

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.154e+06 / 83
p0 2.397e−11 ± 3.324e−14
0.05
0.04
0.03
0.02
0.01
0

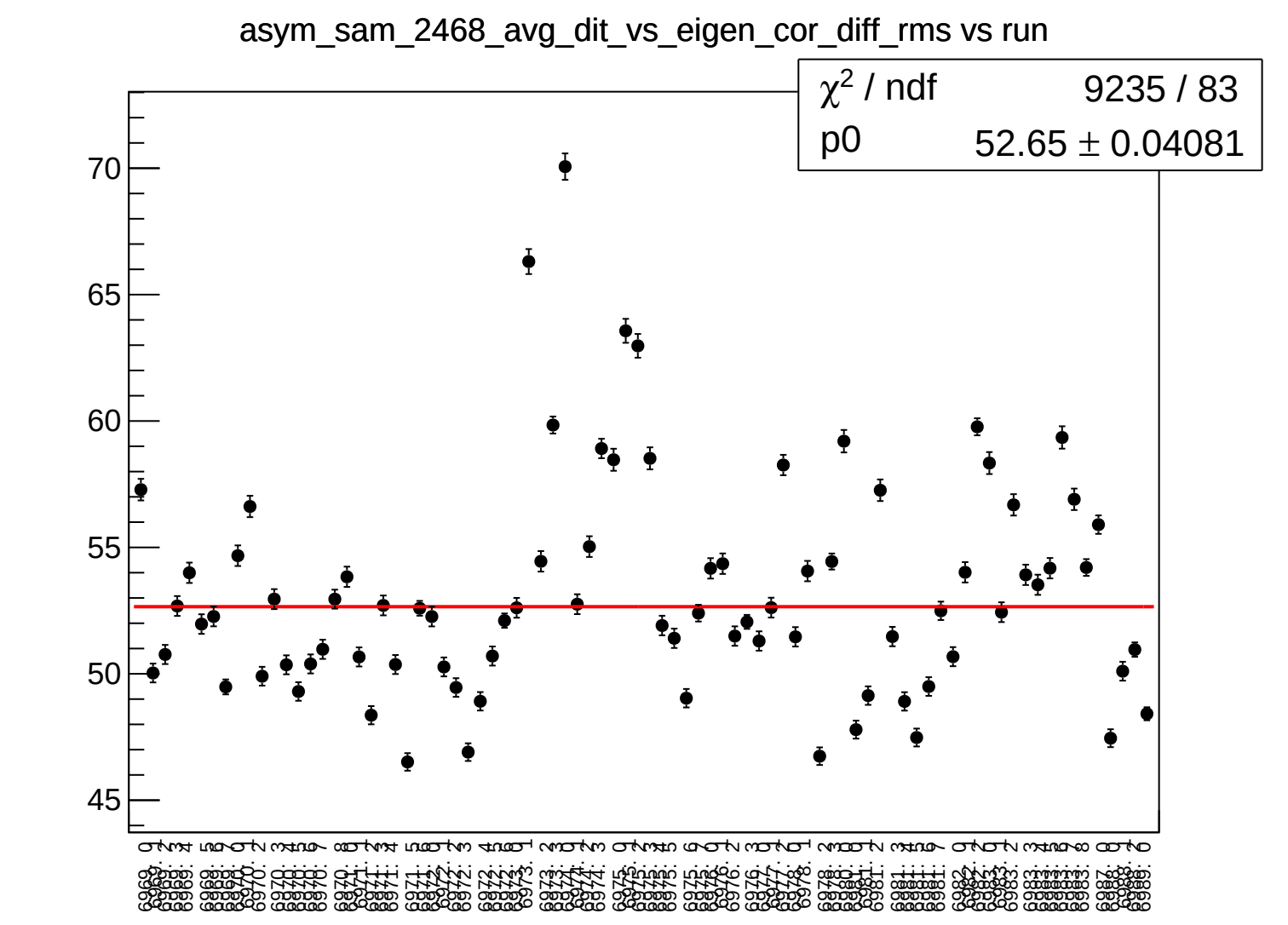

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.72 / 83
p0 0.06552 ± 0.05772
pull
Entries 84
Mean −303.7
Std Dev 0

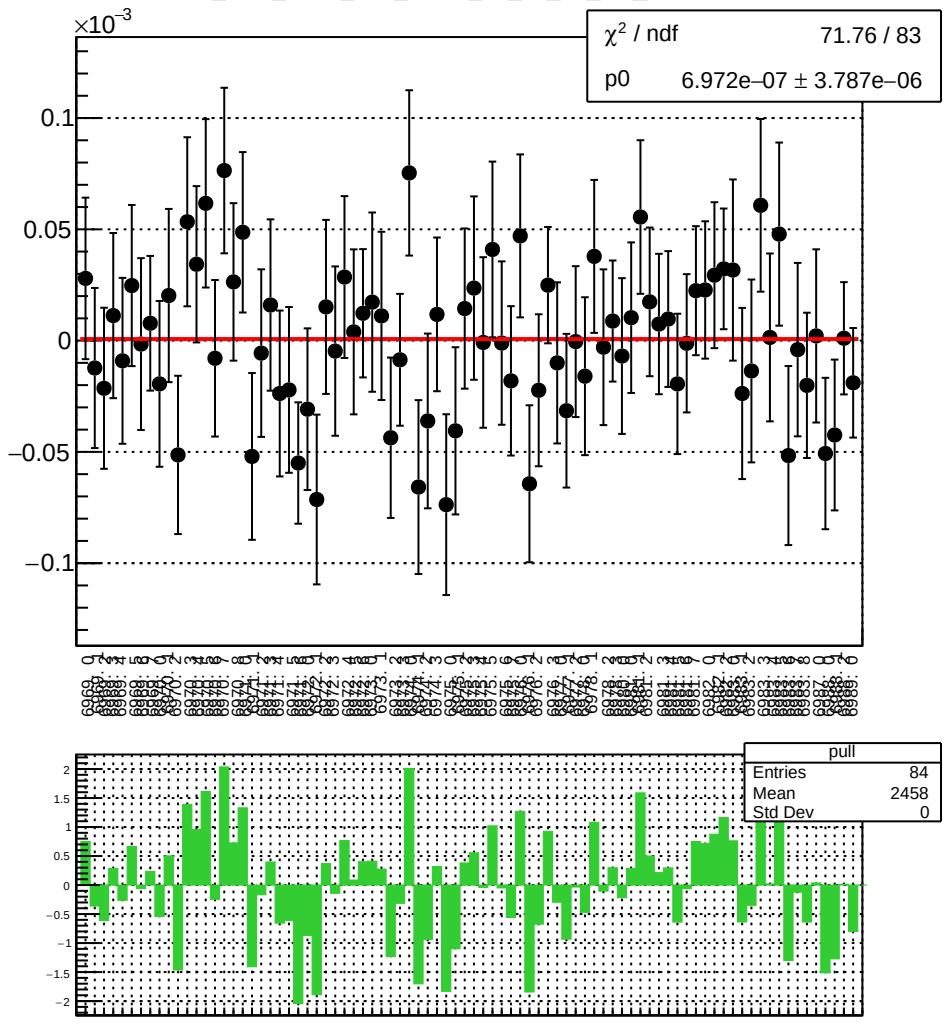

pull1D
Entries 84
Mean 0.006494
Std Dev 1.067

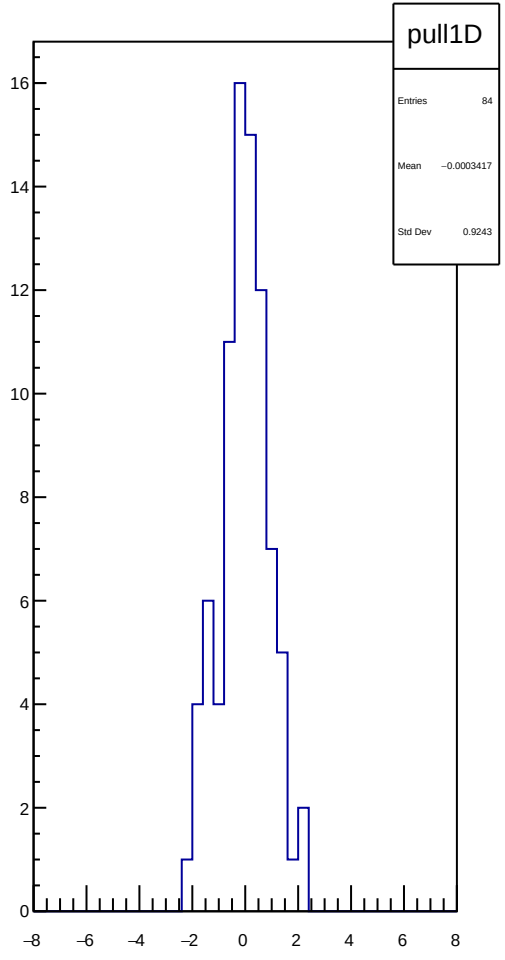

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9235 / 83
p0 52.65 ± 0.04081
70
65
60
55
50
45

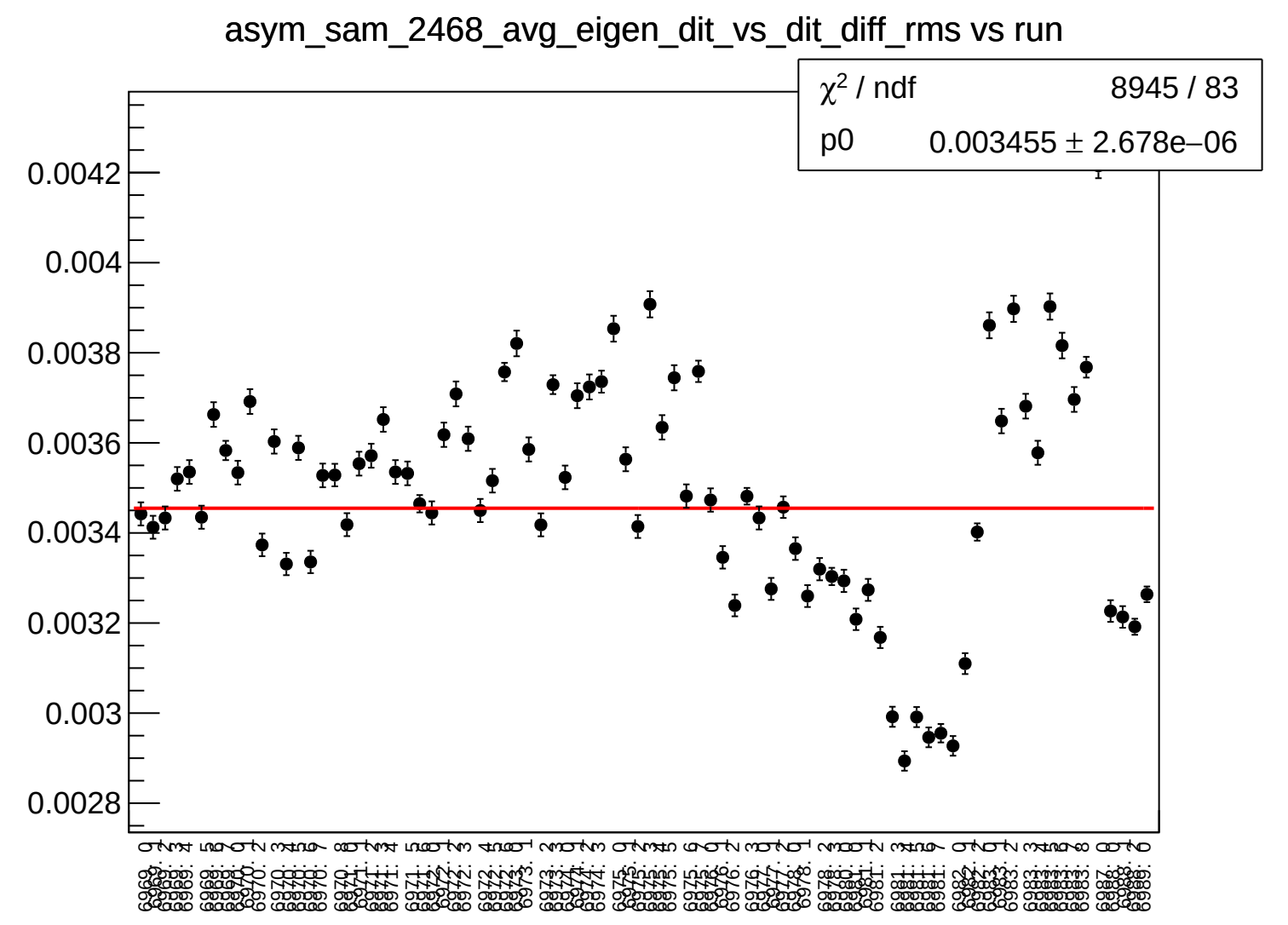

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.72 / 83
p0 0.06552 ± 0.05772
pull
Entries 84
Mean −303.7
Std Dev 0

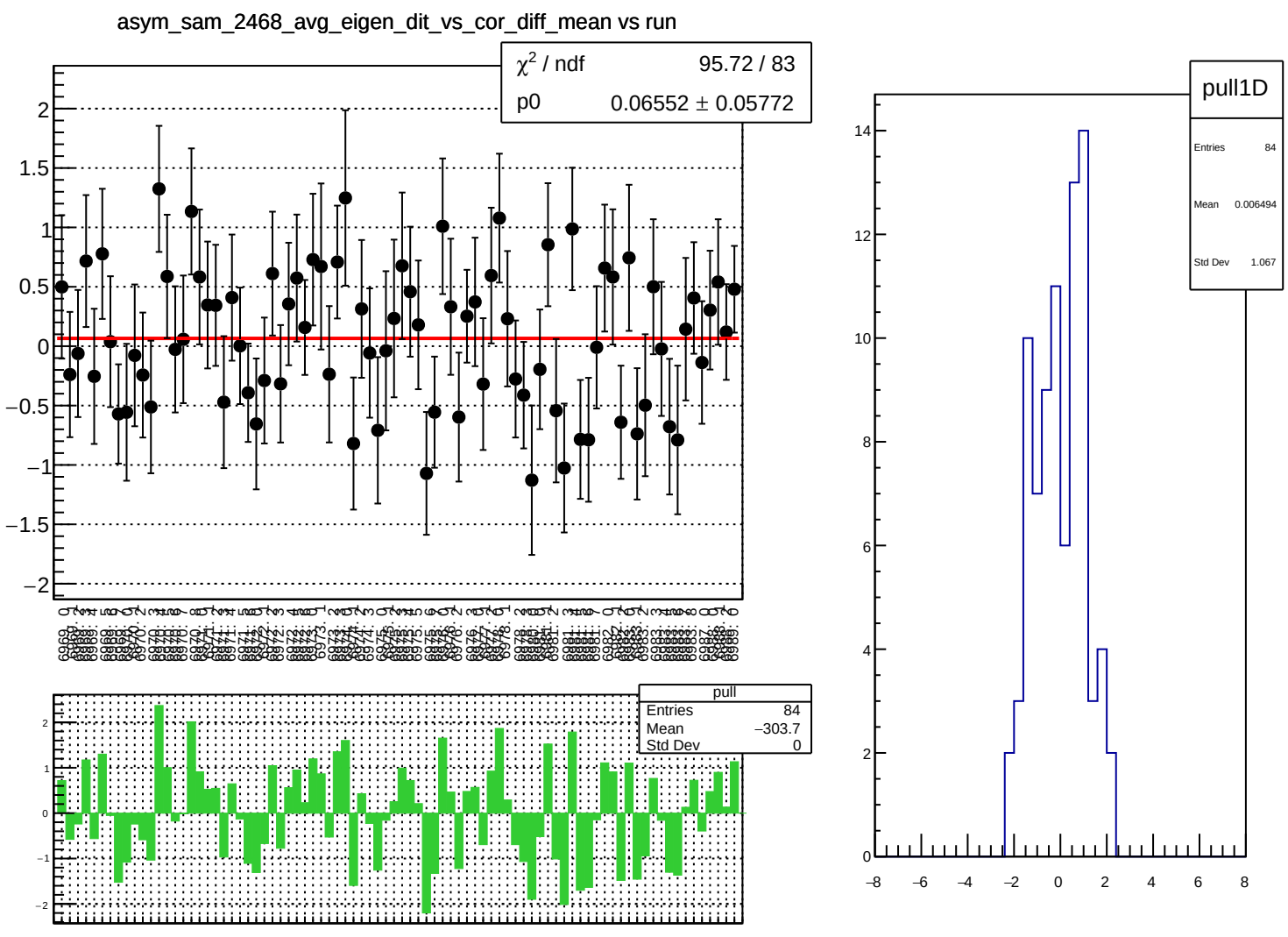

pull1D
Entries 84
Mean 0.006494
Std Dev 1.067

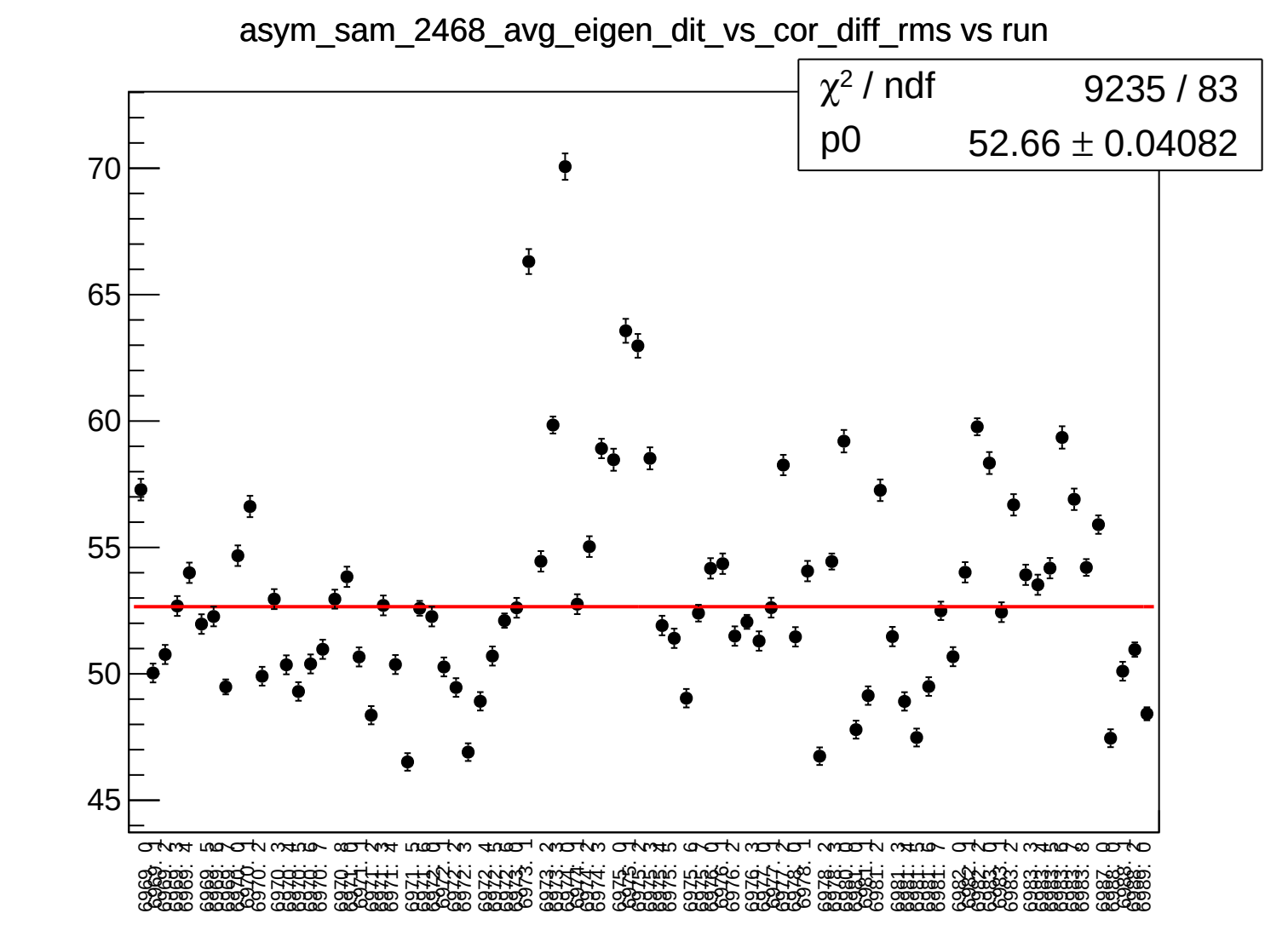

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9235 / 83
p0 52.65 ± 0.04081
70
65
60
55
50
45

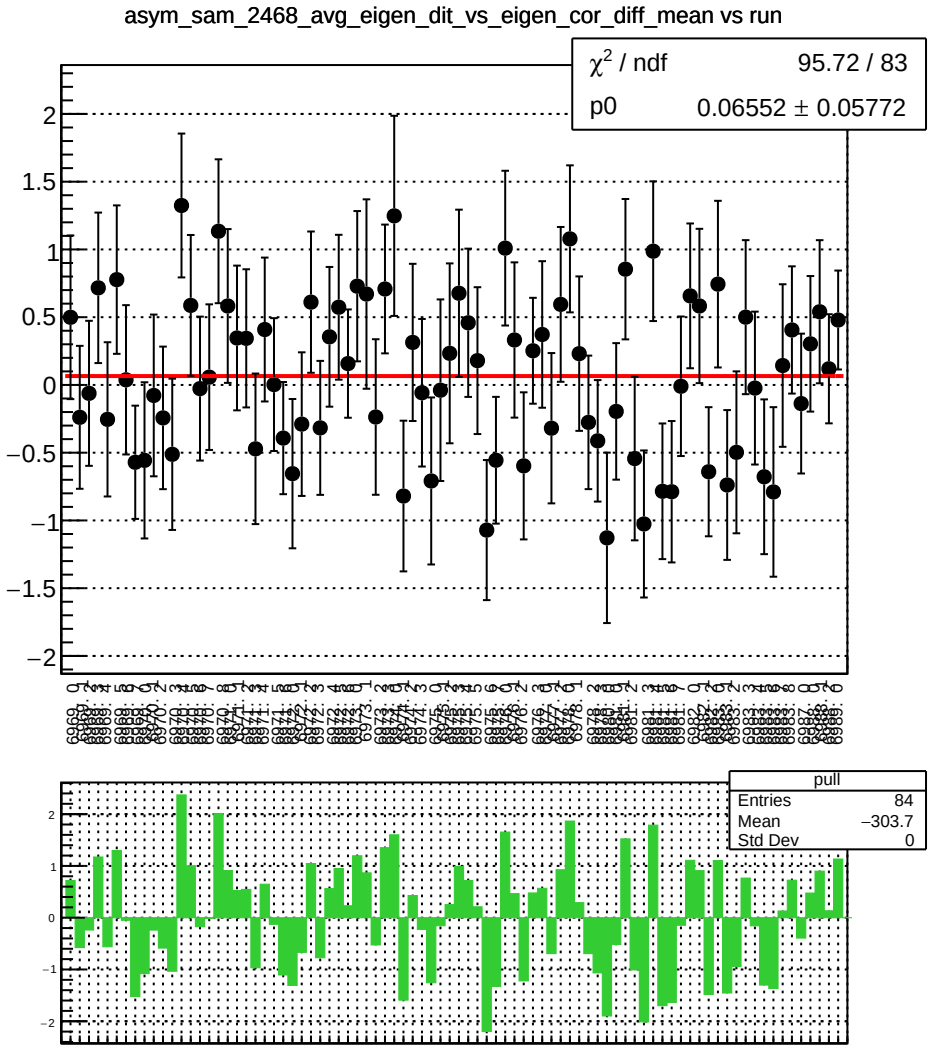

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.76 / 83
p0 6.972e−07 ± 3.787e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 2458
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

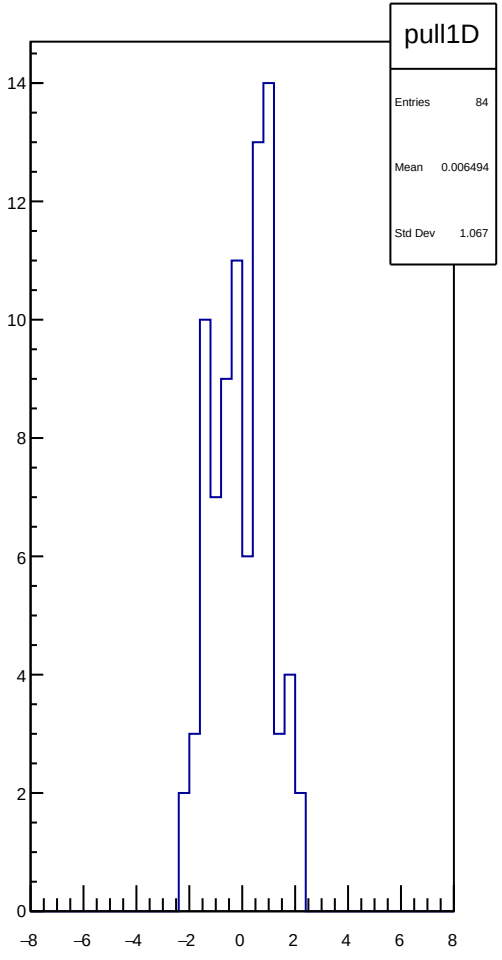

pull1D
Entries 84
Mean −0.0003417
Std Dev 0.9243
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

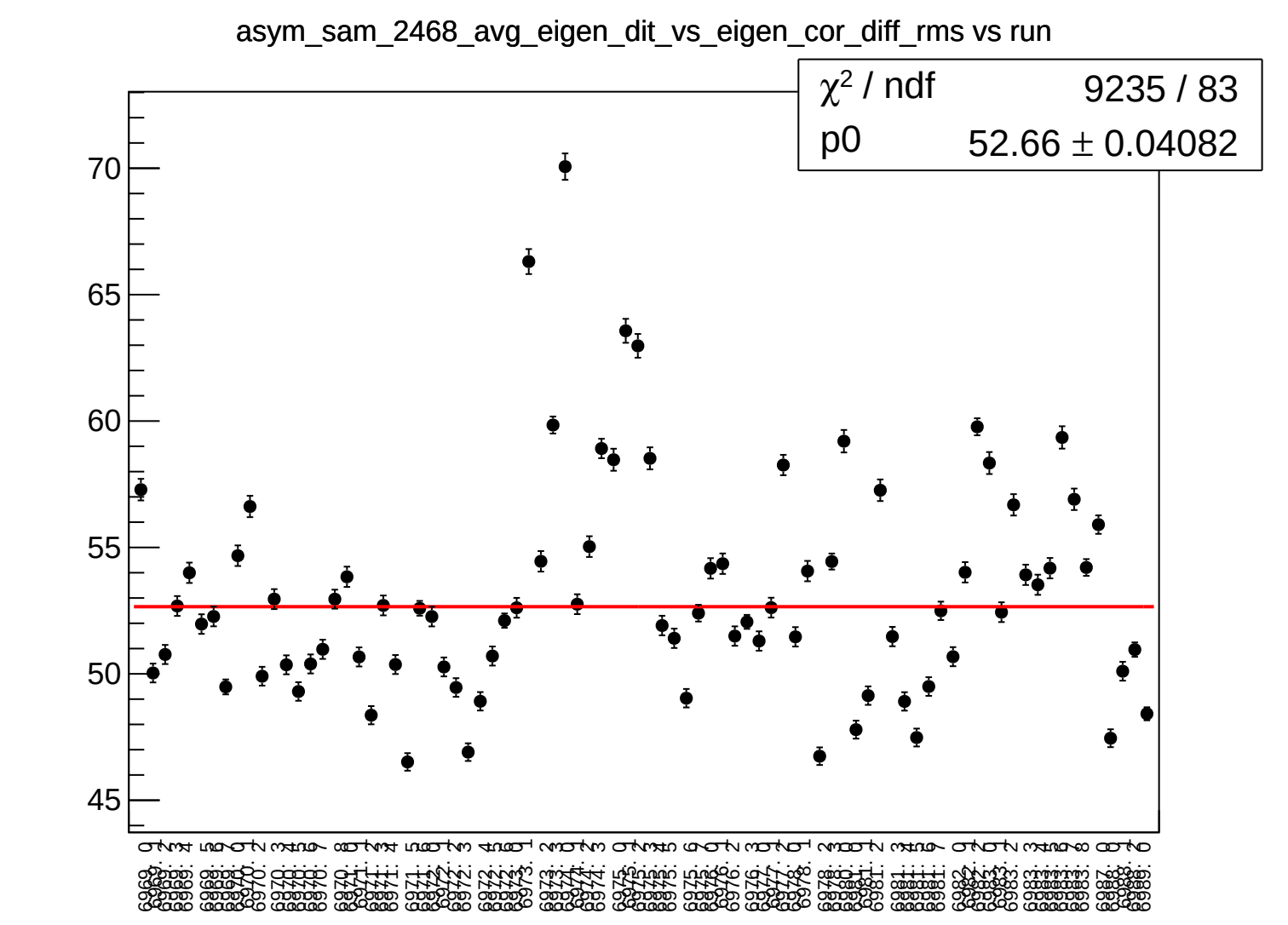

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8945 / 83
p0 0.003455 ± 2.678e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

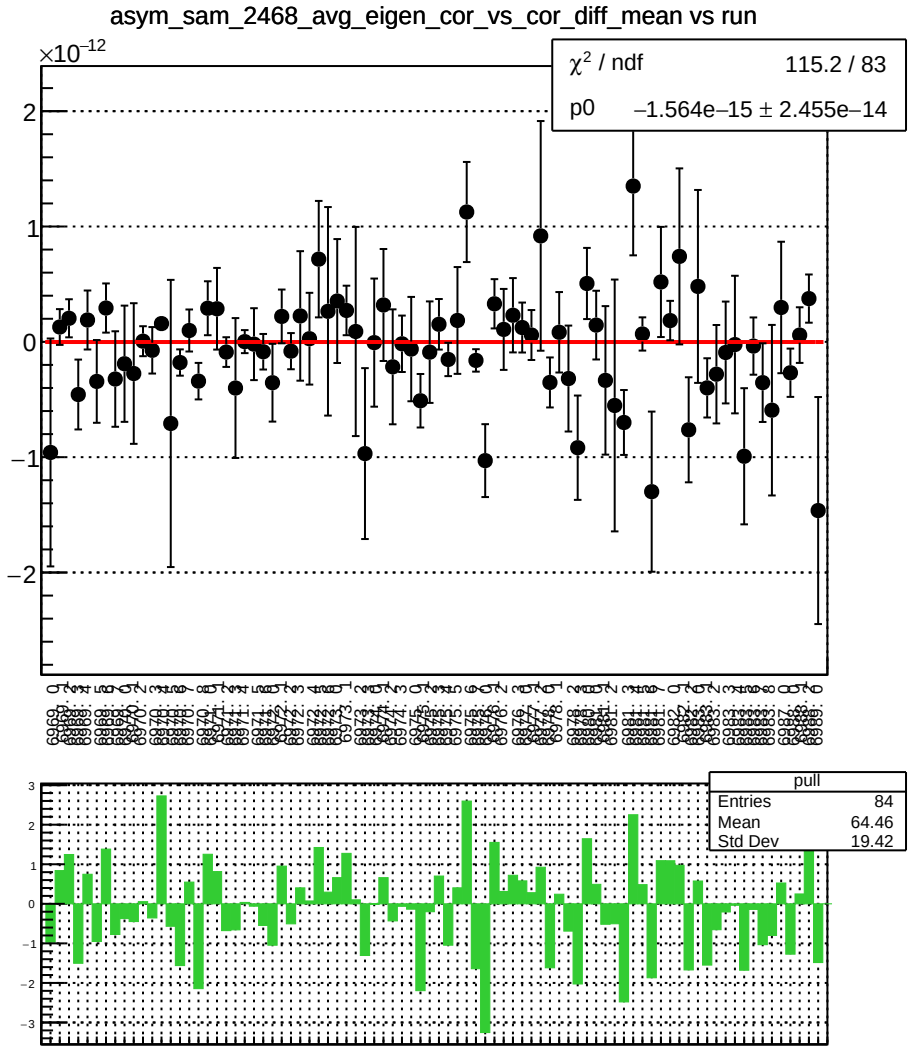

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.72 / 83
p0 0.06552 ± 0.05772
pull
Entries 84
Mean −303.7
Std Dev 0
pull1D
Entries 84
Mean 0.006494
Std Dev 1.067

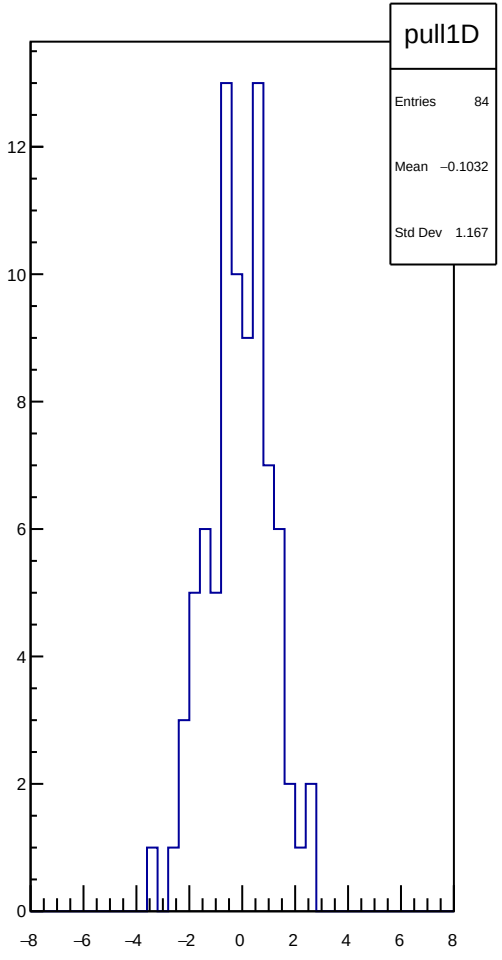

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9235 / 83
p0 52.66 ± 0.04082
70
65
60
55
50
45

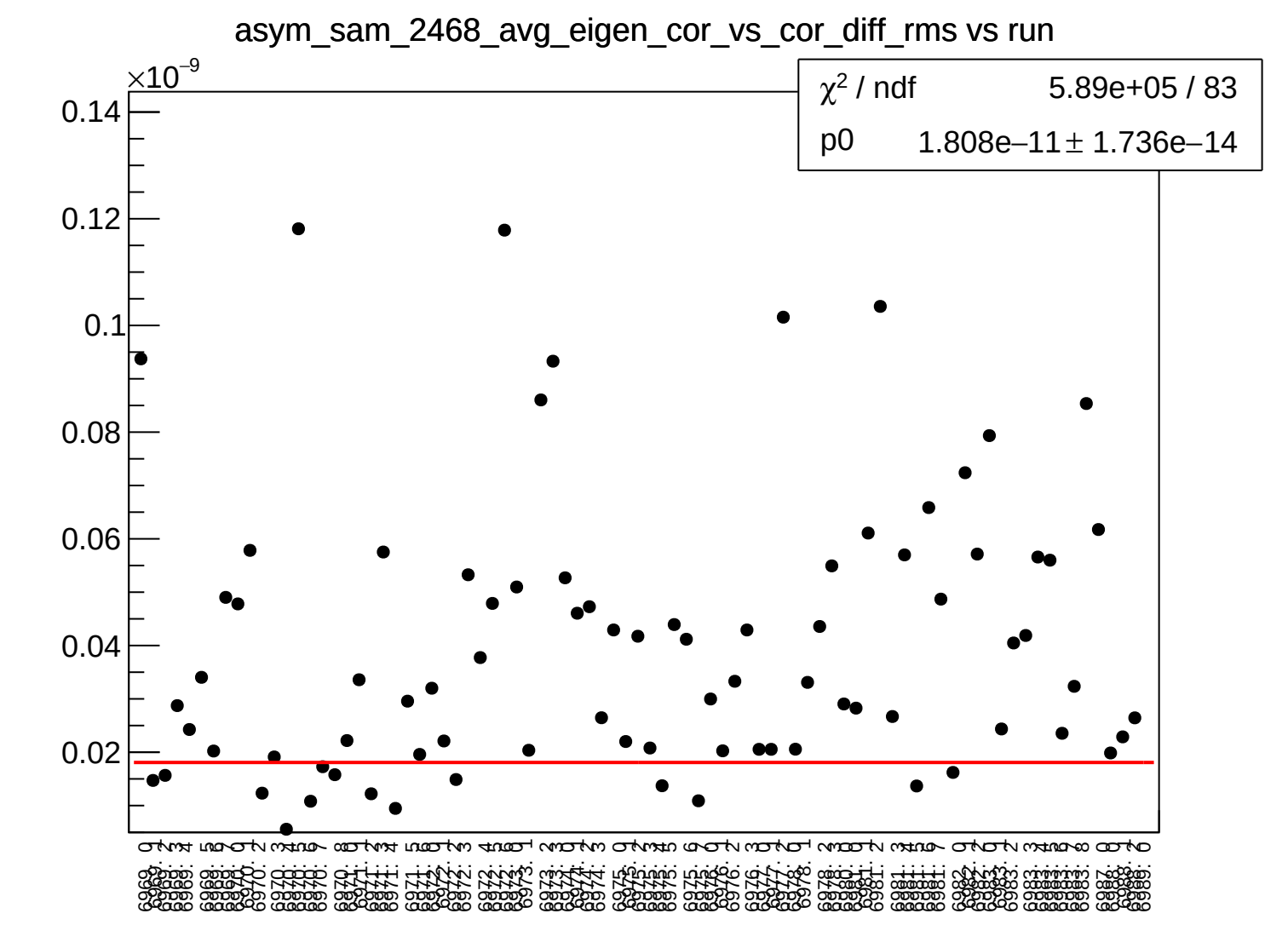

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.72 / 83
p0 0.06552 ± 0.05772
pull
Entries 84
Mean −303.7
Std Dev 0

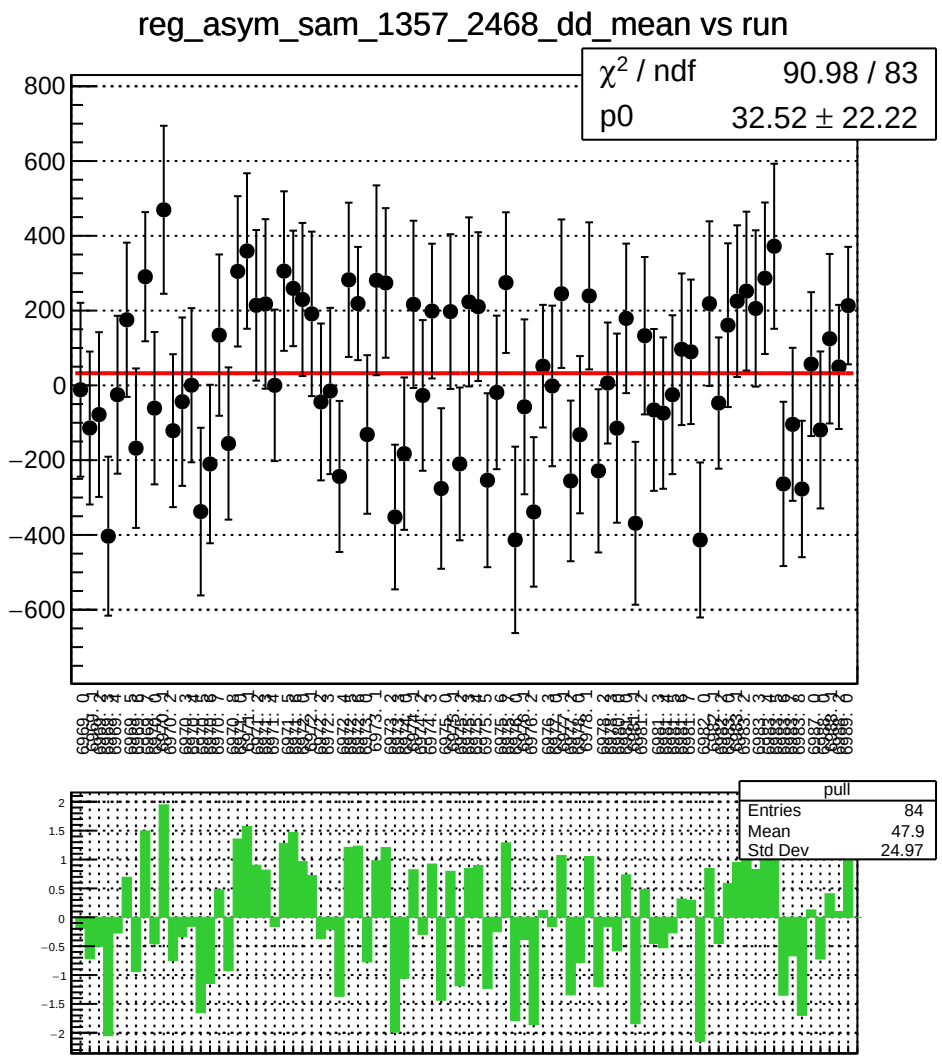

pull1D
Entries 84
Mean 0.006494
Std Dev 1.067

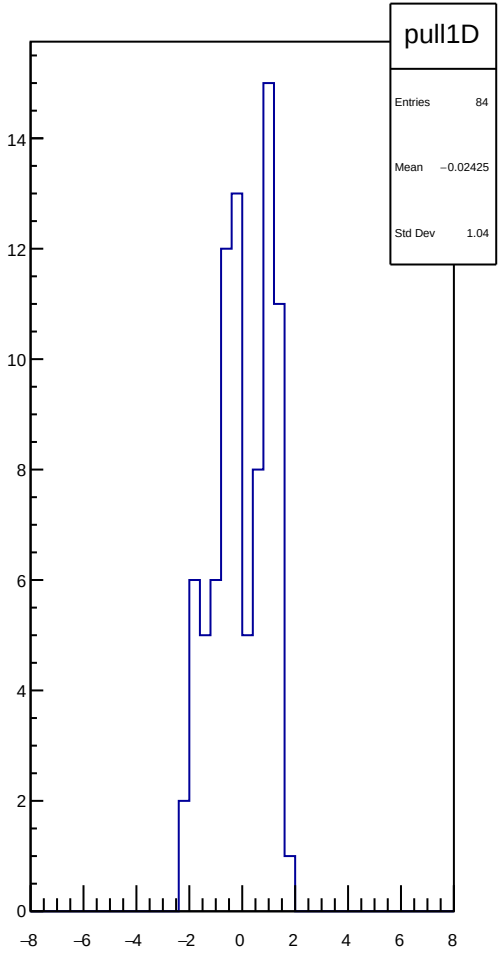

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9235 / 83
p0 52.66 ± 0.04082
70
65
60
55
50
45

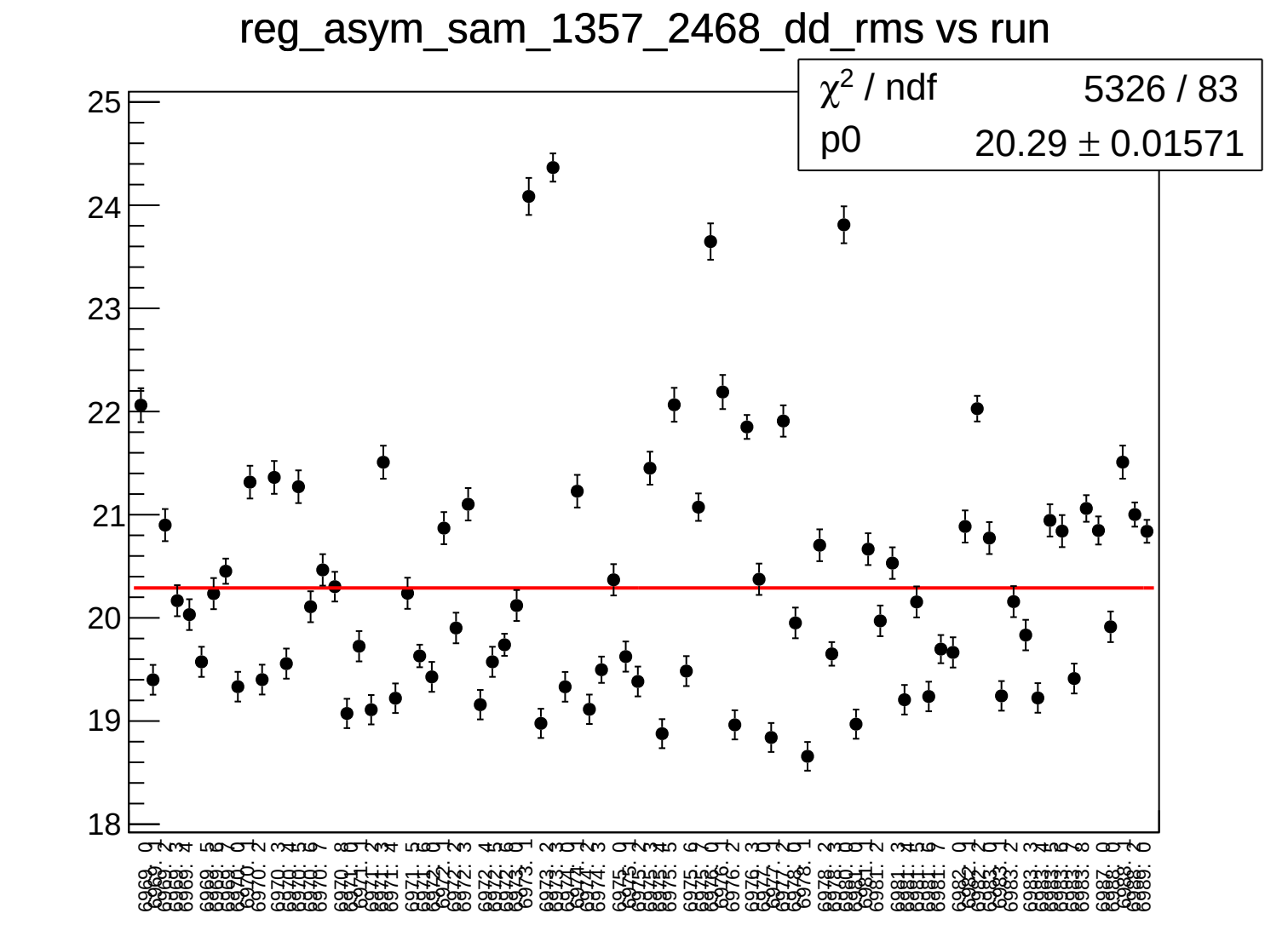

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 115.2 / 83
p0 −1.564e−15 ± 2.455e−14
pull
Entries 84
Mean 64.46
Std Dev 19.42

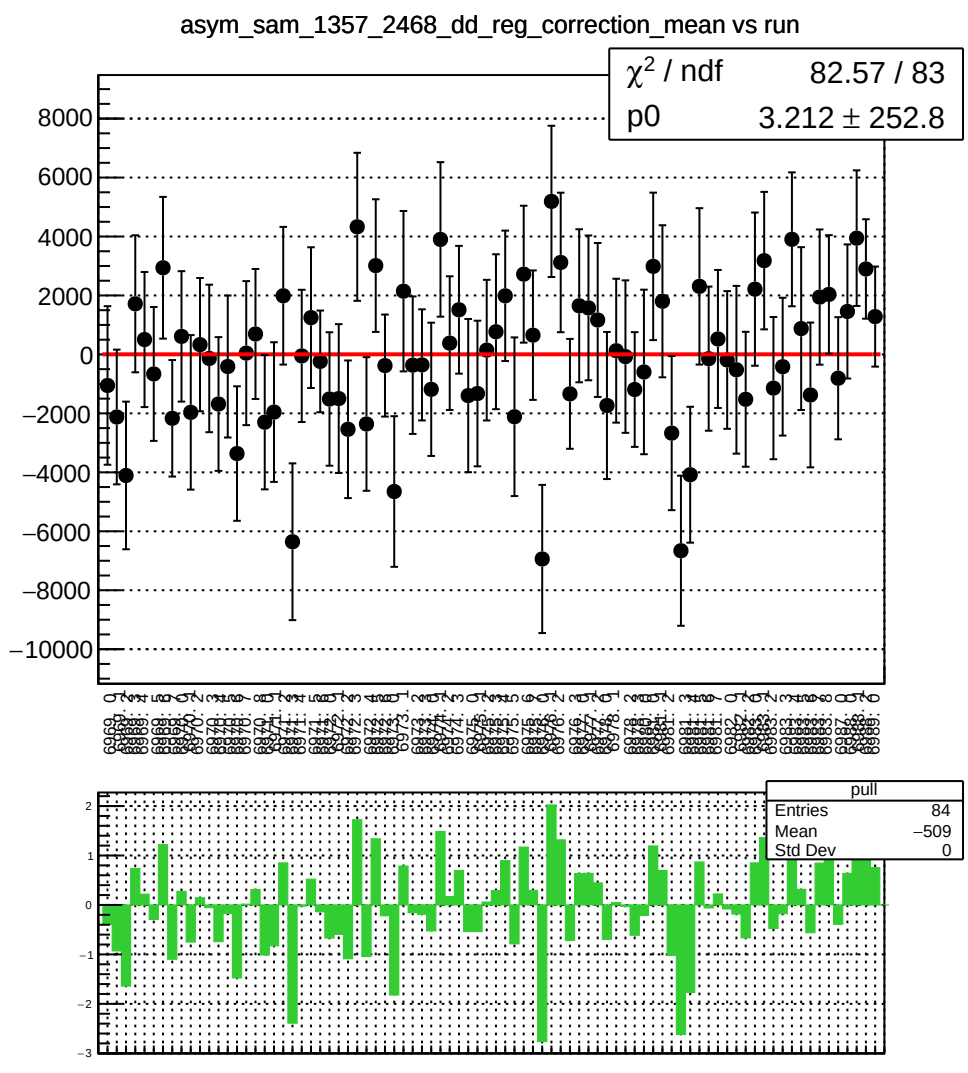

pull1D
Entries 84
Mean −0.1032
Std Dev 1.167

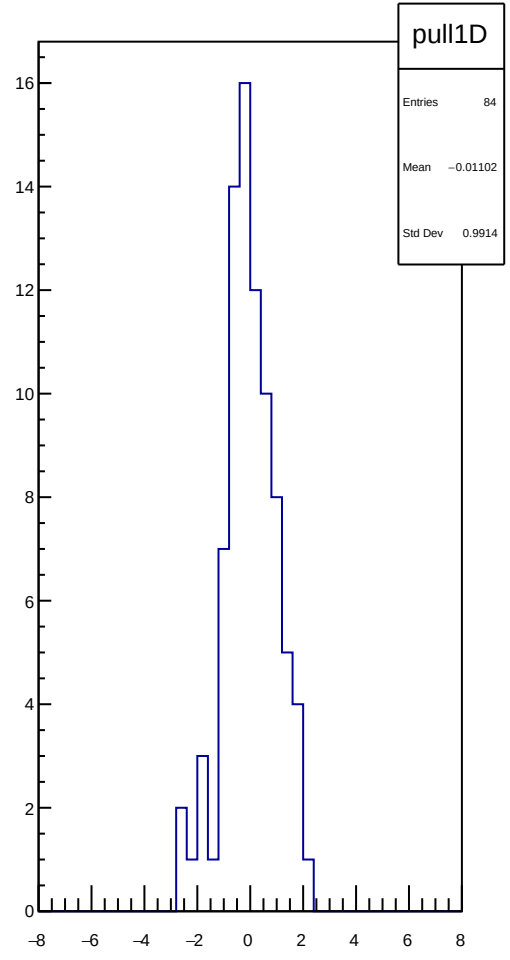

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.89e+05 / 83
p0 1.808e−11 ± 1.736e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

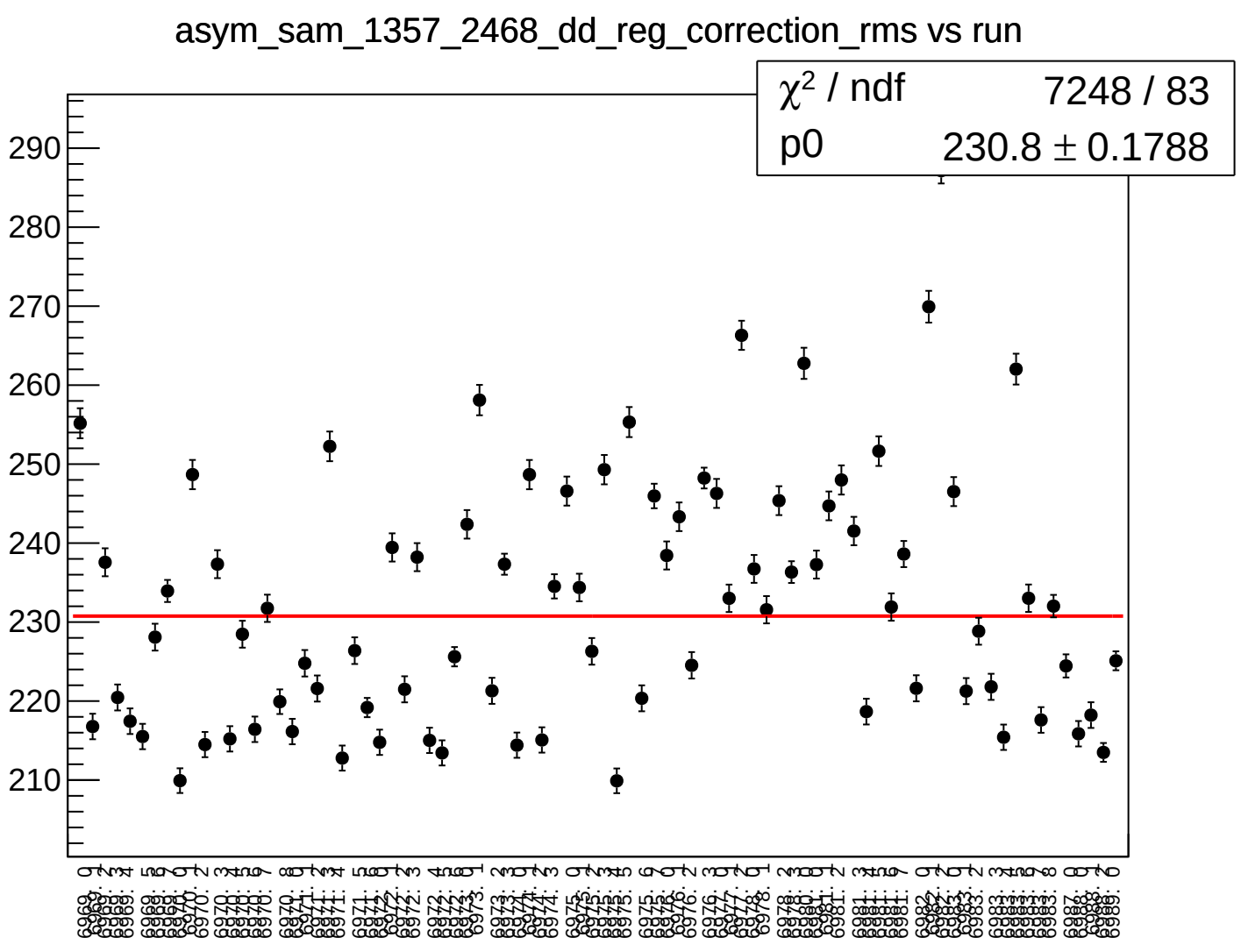

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.98 / 83
p0 32.52 ± 22.22
pull
Entries 84
Mean 47.9
Std Dev 24.97

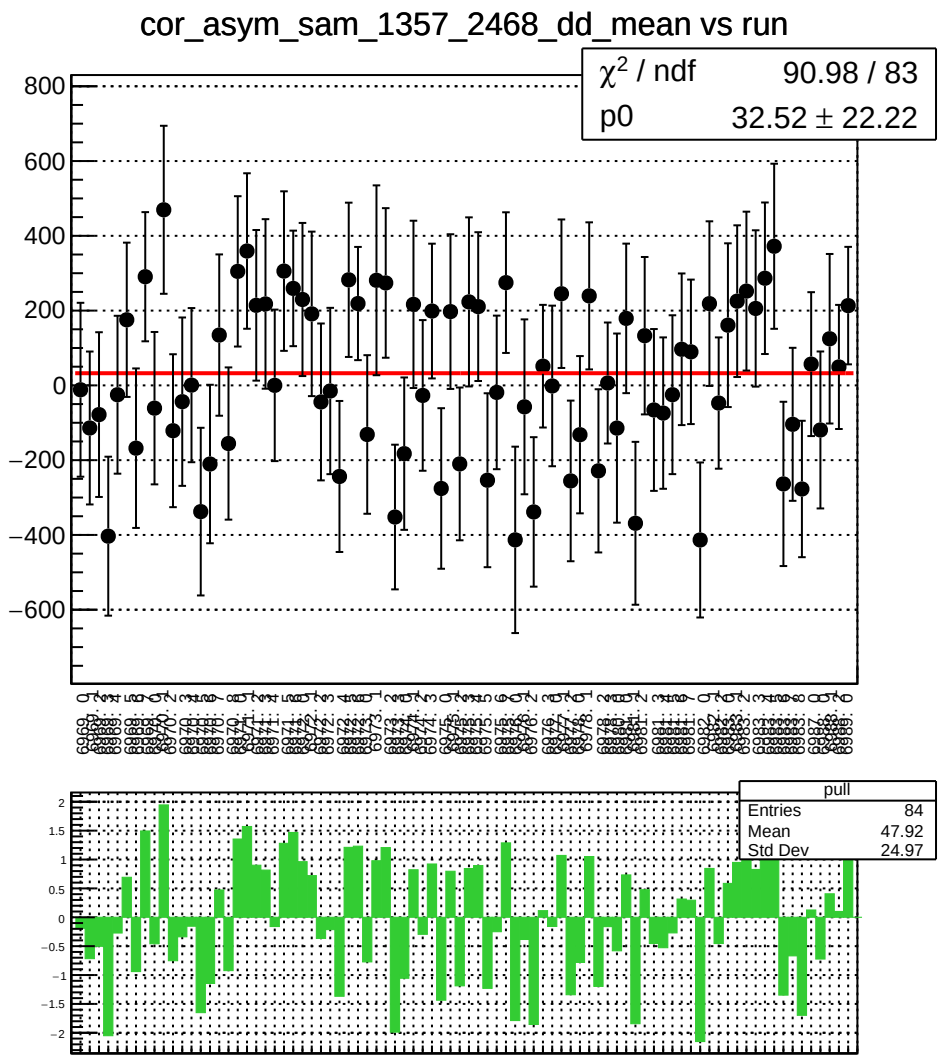

pull1D
Entries 84
Mean −0.02425
Std Dev 1.04

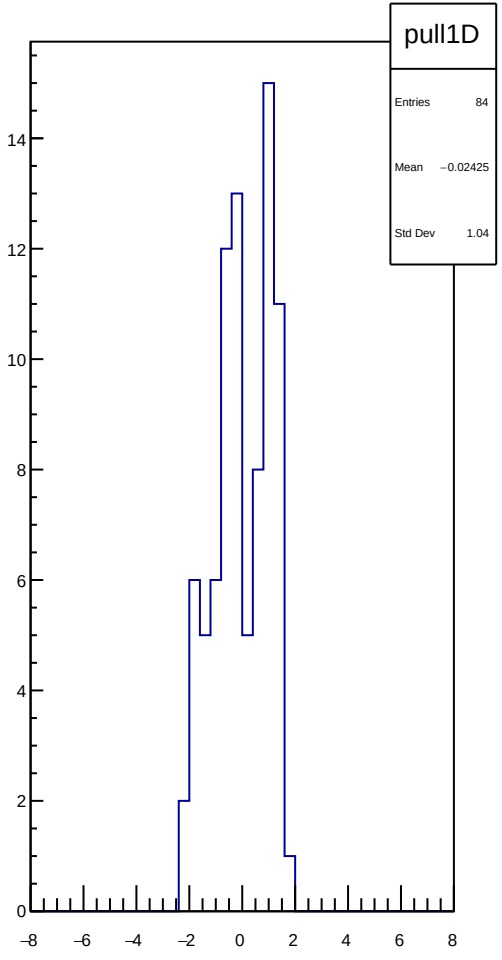

reg_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 5326 / 83
p0 20.29 ± 0.01571
25
24
23
22
21
20
19
18

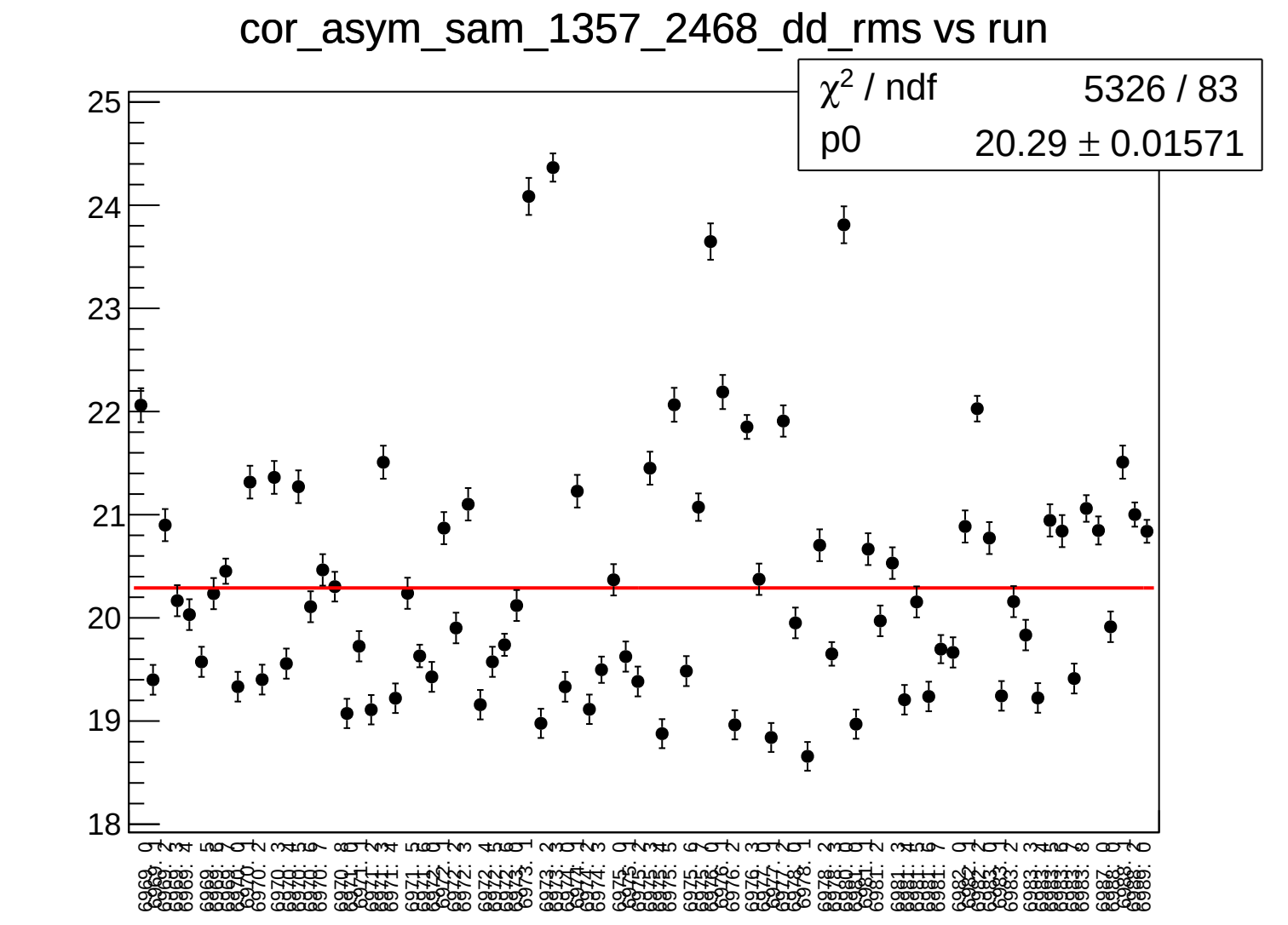

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 82.57 / 83
p0 3.212 ± 252.8
pull
Entries 84
Mean −509
Std Dev 0

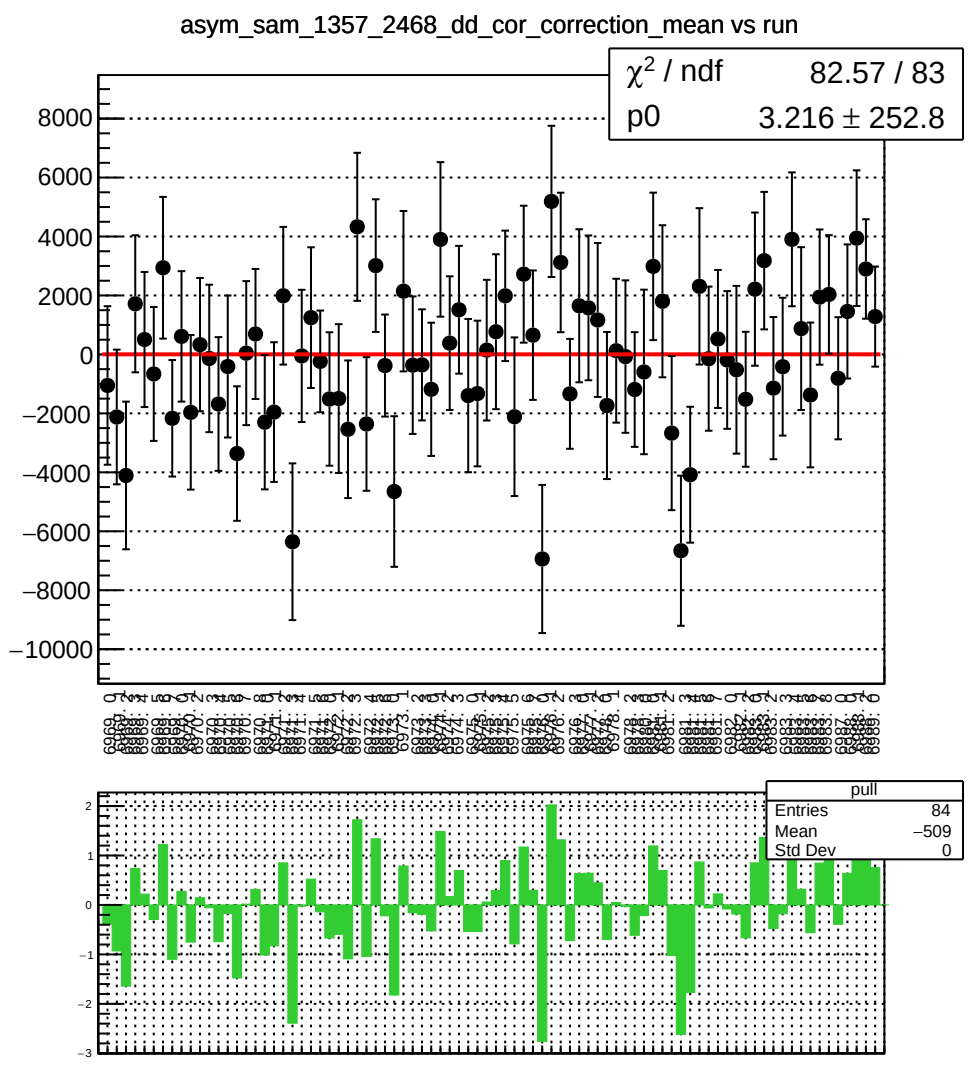

pull1D
Entries 84
Mean −0.01102
Std Dev 0.9914

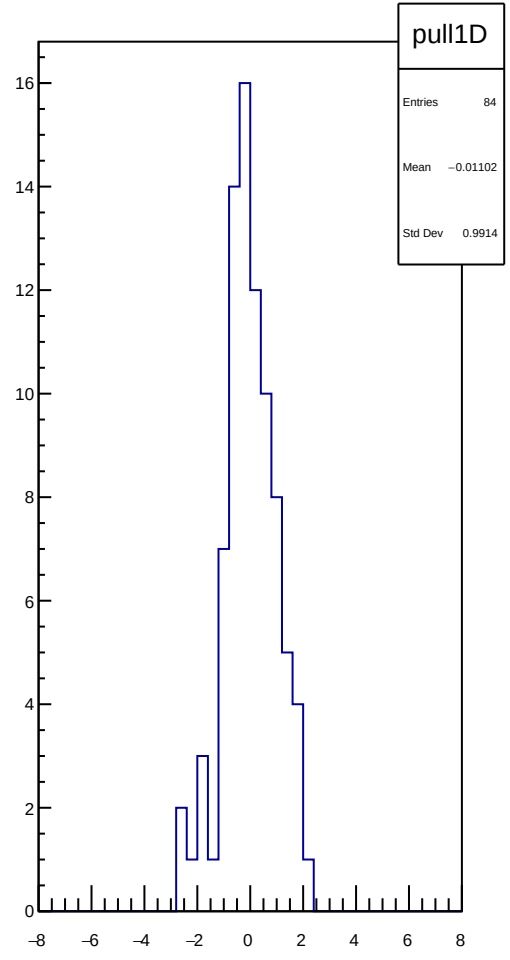

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 7248 / 83
p0 230.8 ± 0.1788
290
280
270
260
250
240
230
220
210

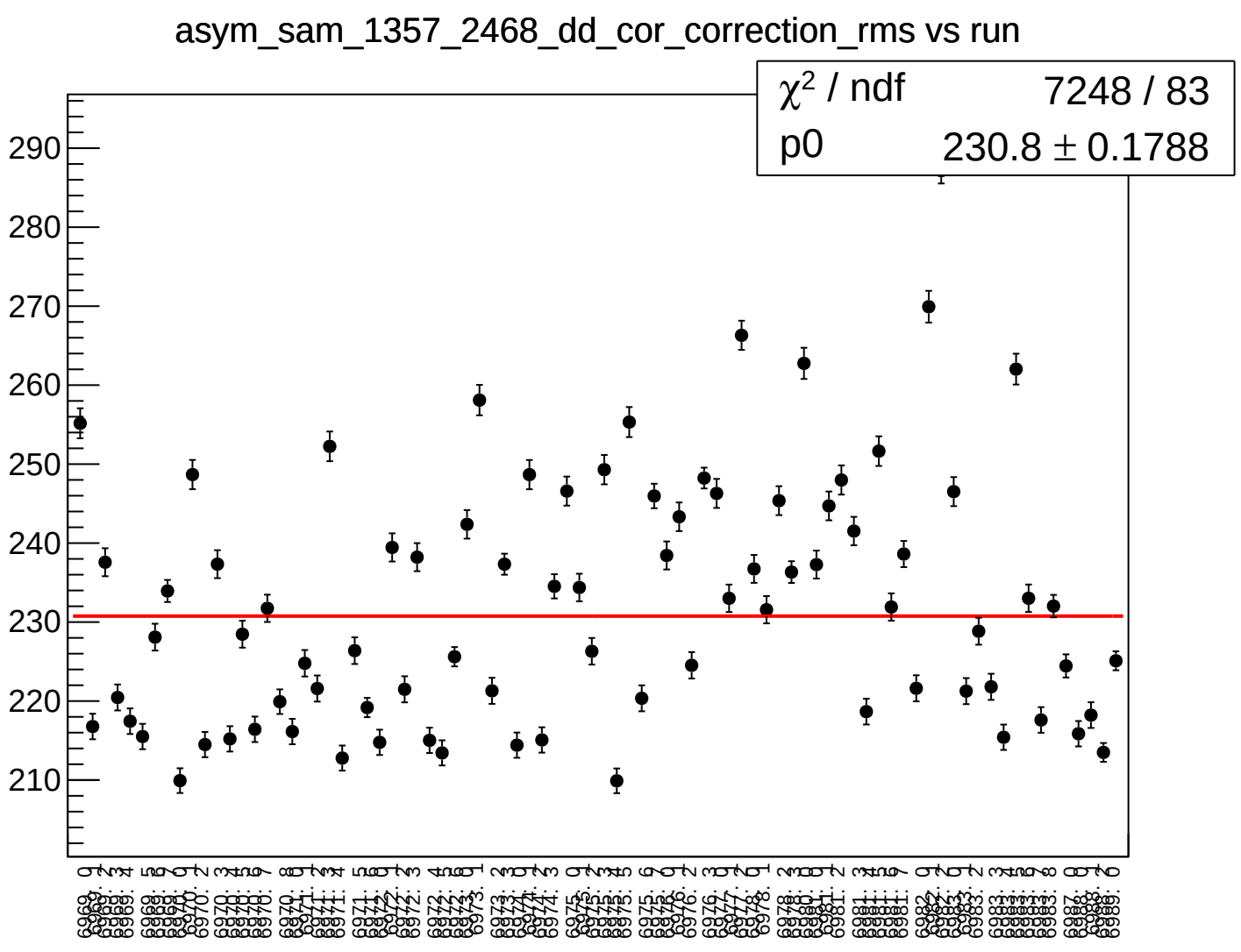

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.98 / 83
p0 32.52 ± 22.22
pull
Entries 84
Mean 47.92
Std Dev 24.97

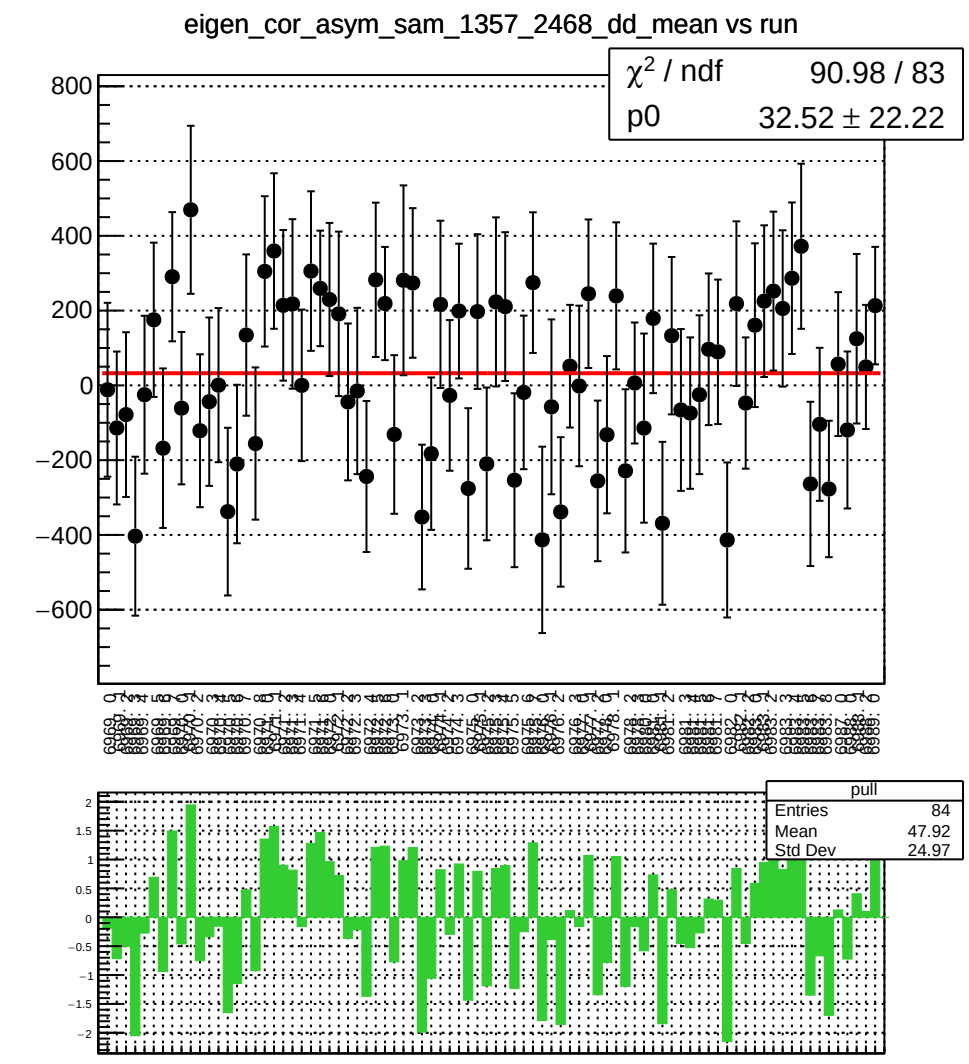

pull1D
Entries 84
Mean −0.02425
Std Dev 1.04

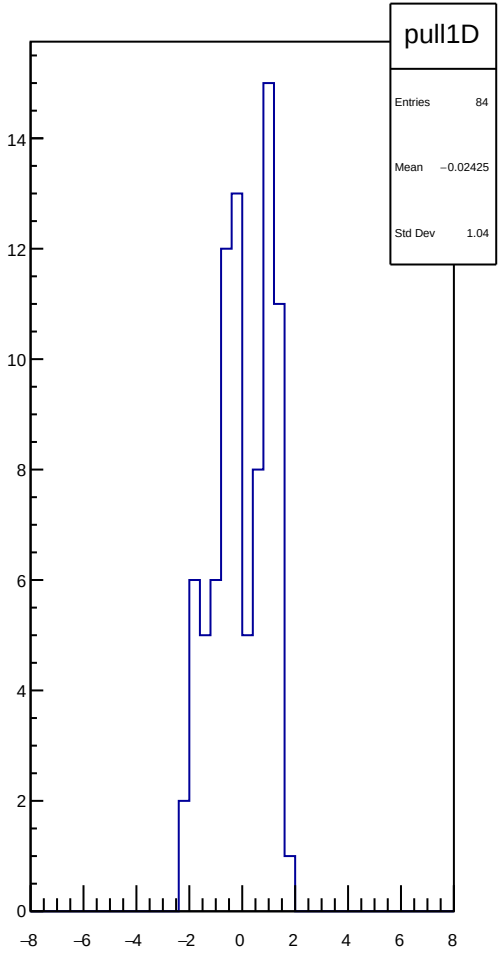

cor_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 5326 / 83
p0 20.29 ± 0.01571
25
24
23
22
21
20
19
18

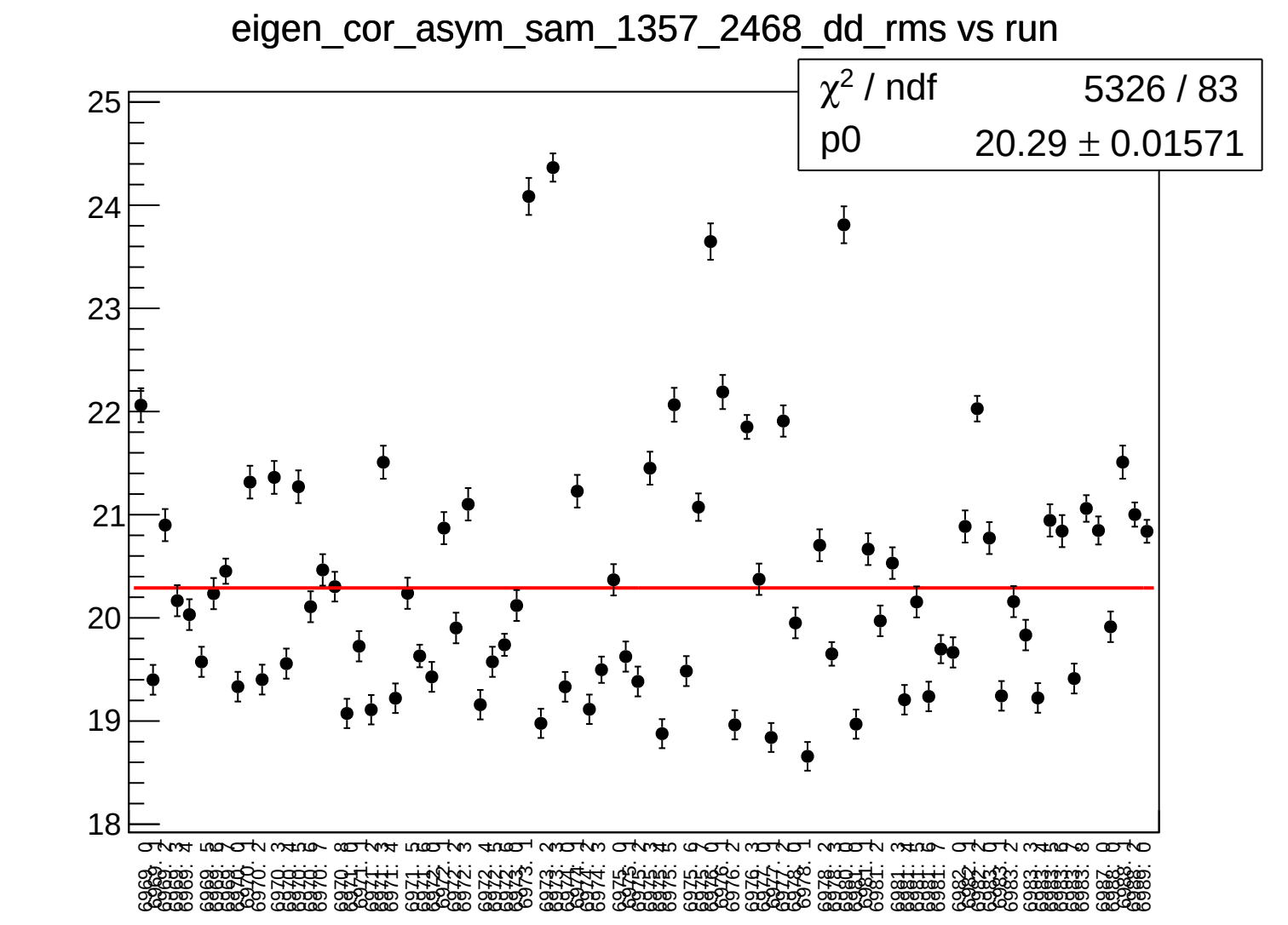

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 82.57 / 83
p0 3.216 ± 252.8
pull
Entries 84
Mean −509
Std Dev 0

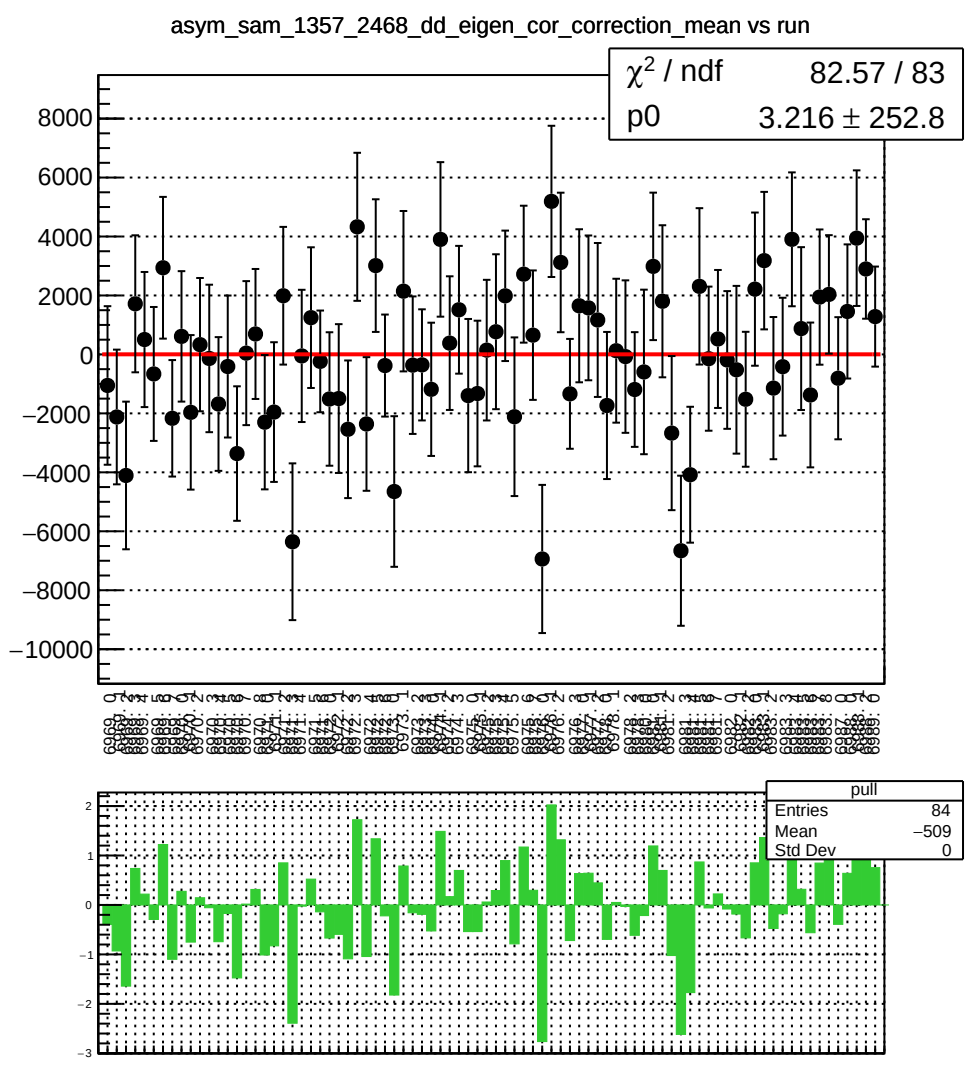

pull1D
Entries 84
Mean −0.01102
Std Dev 0.9914

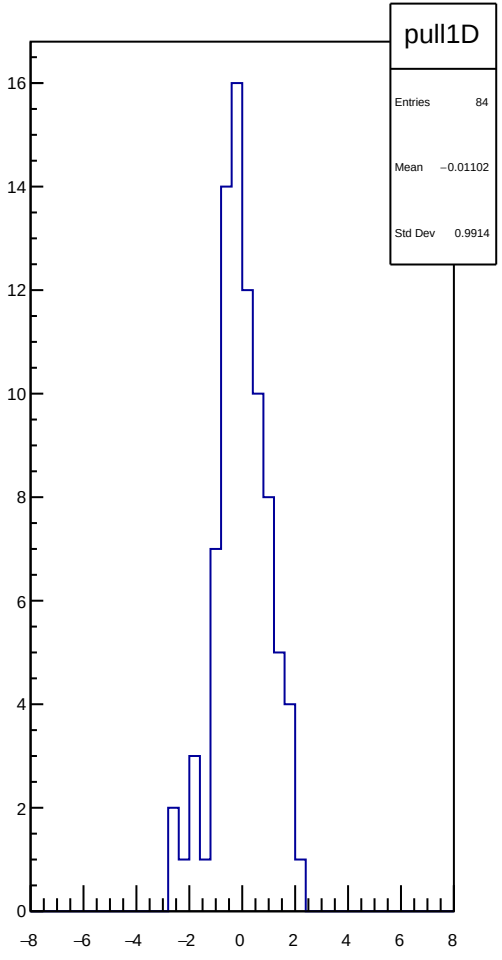

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 7248 / 83
p0 230.8 ± 0.1788
290
280
270
260
250
240
230
220
210

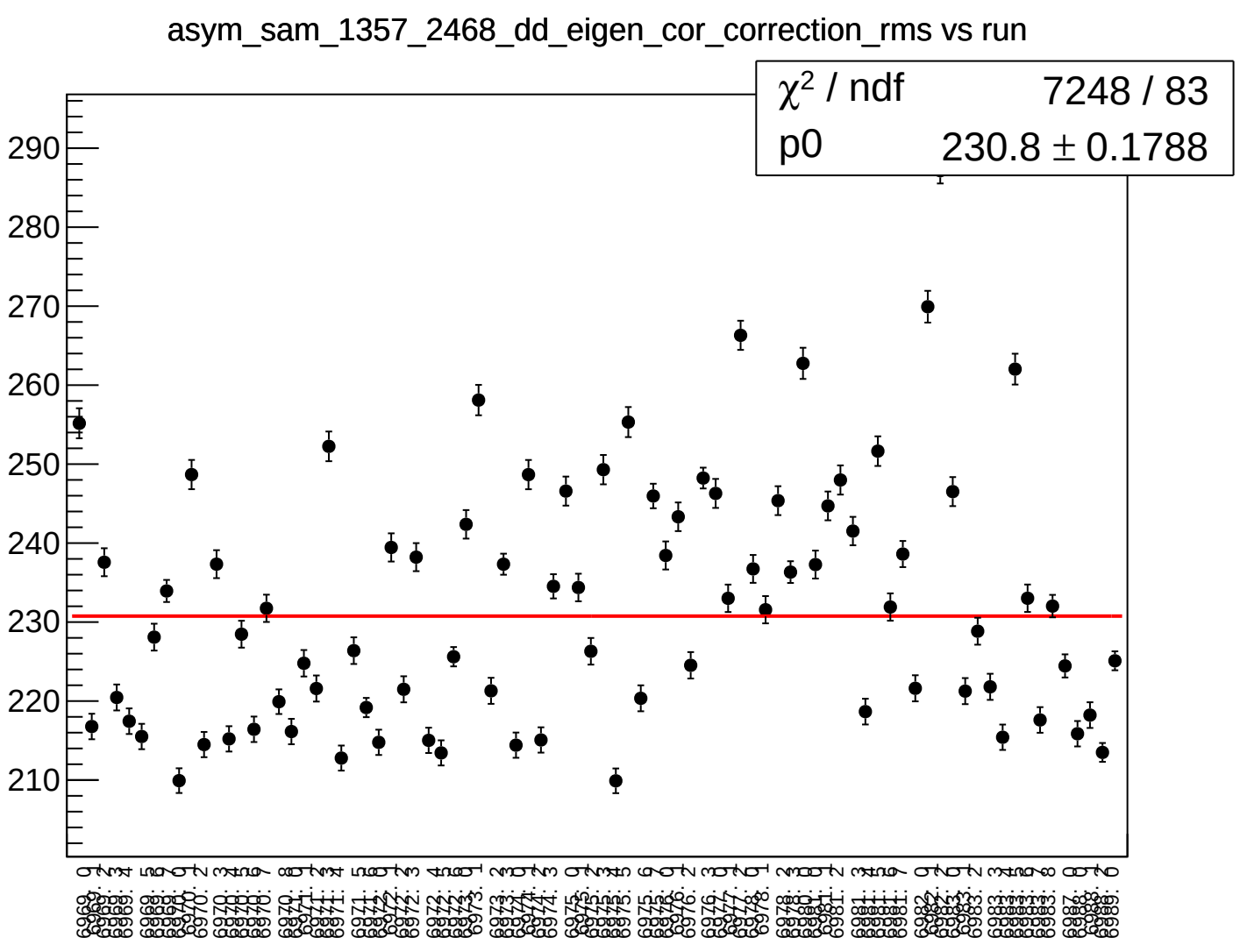

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.98 / 83
p0 32.52 ± 22.22
pull
Entries 84
Mean 47.92
Std Dev 24.97

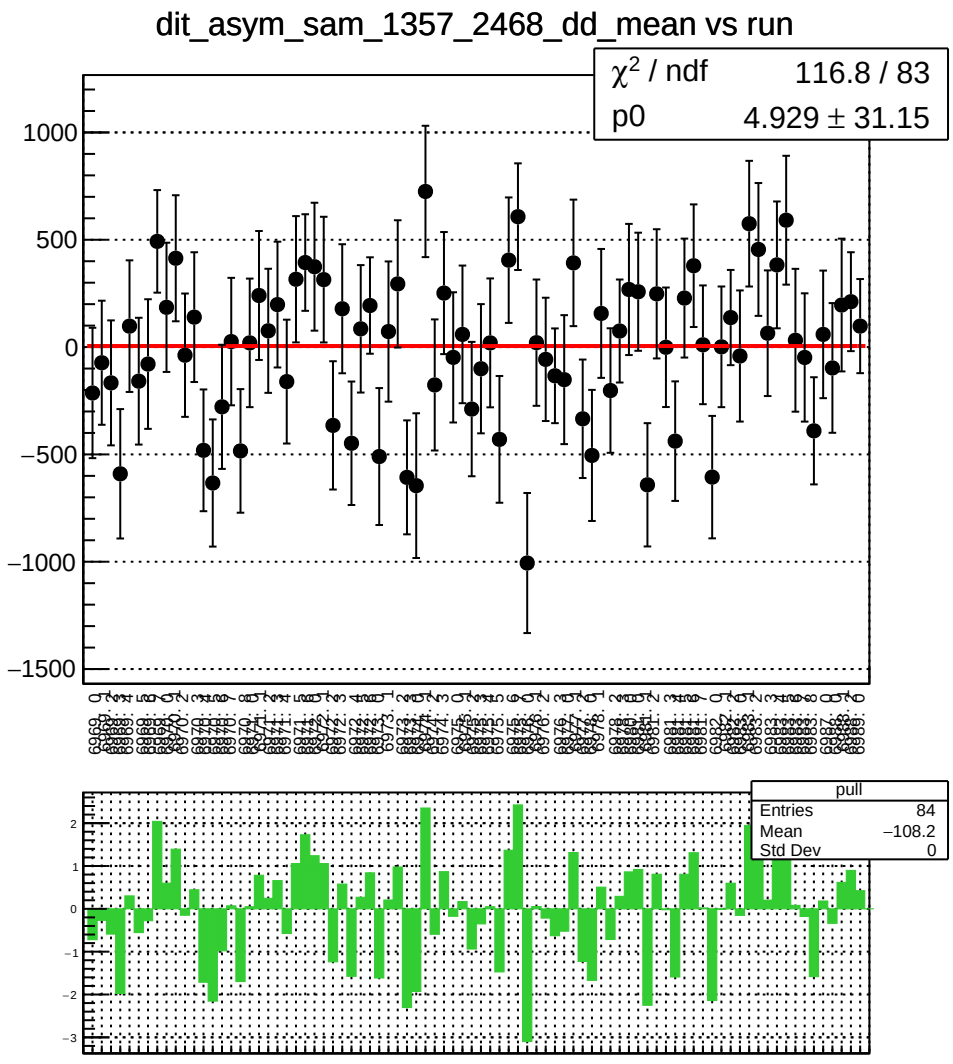

pull1D
Entries 84
Mean −0.02425
Std Dev 1.04

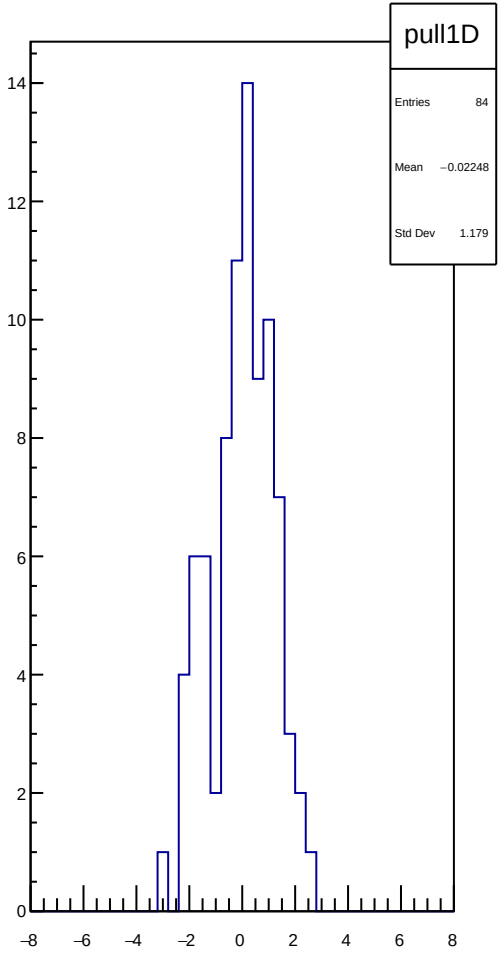

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5326 / 83
p0 20.29 ± 0.01571
25
24
23
22
21
20
19
18

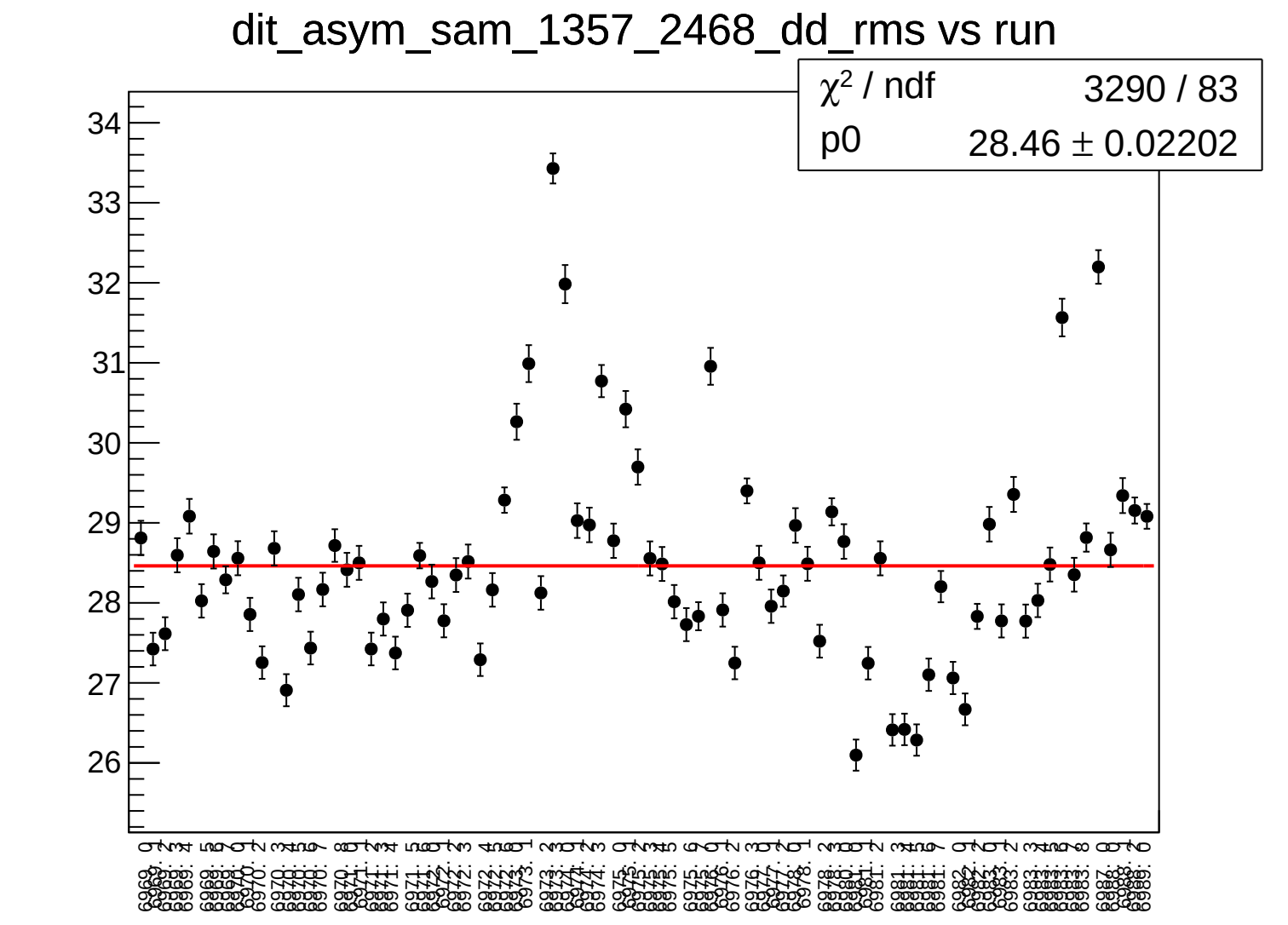

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.57 / 83
p0 3.216 ± 252.8
pull
Entries 84
Mean −509
Std Dev 0

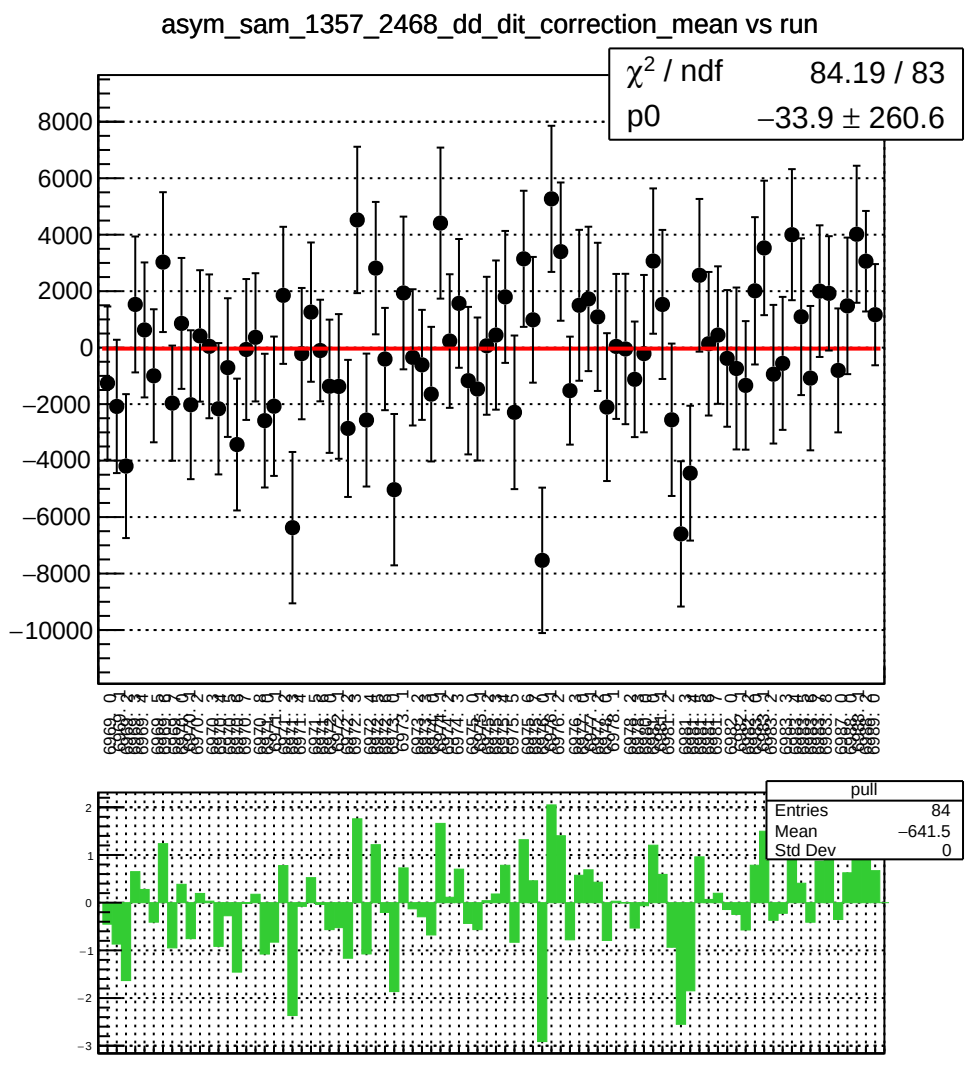

pull1D
Entries 84
Mean −0.01102
Std Dev 0.9914

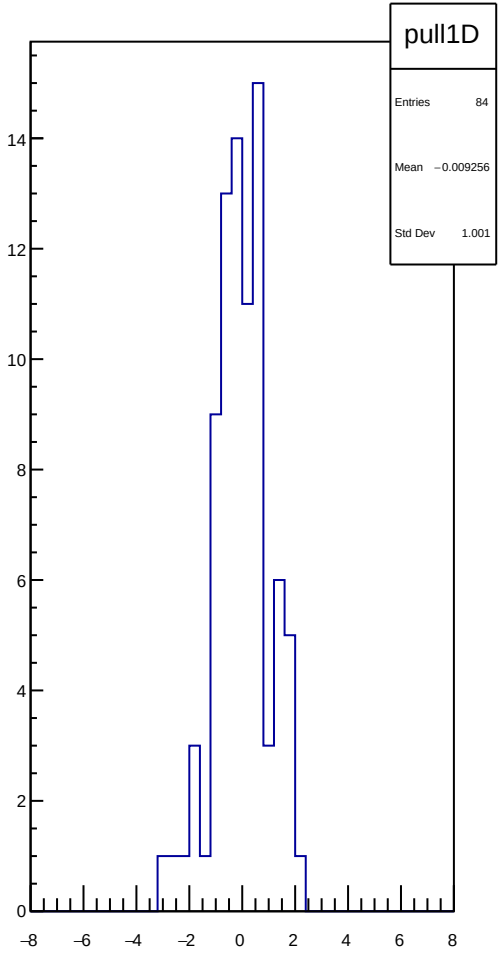

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 7248 / 83
p0 230.8 ± 0.1788
290
280
270
260
250
240
230
220
210

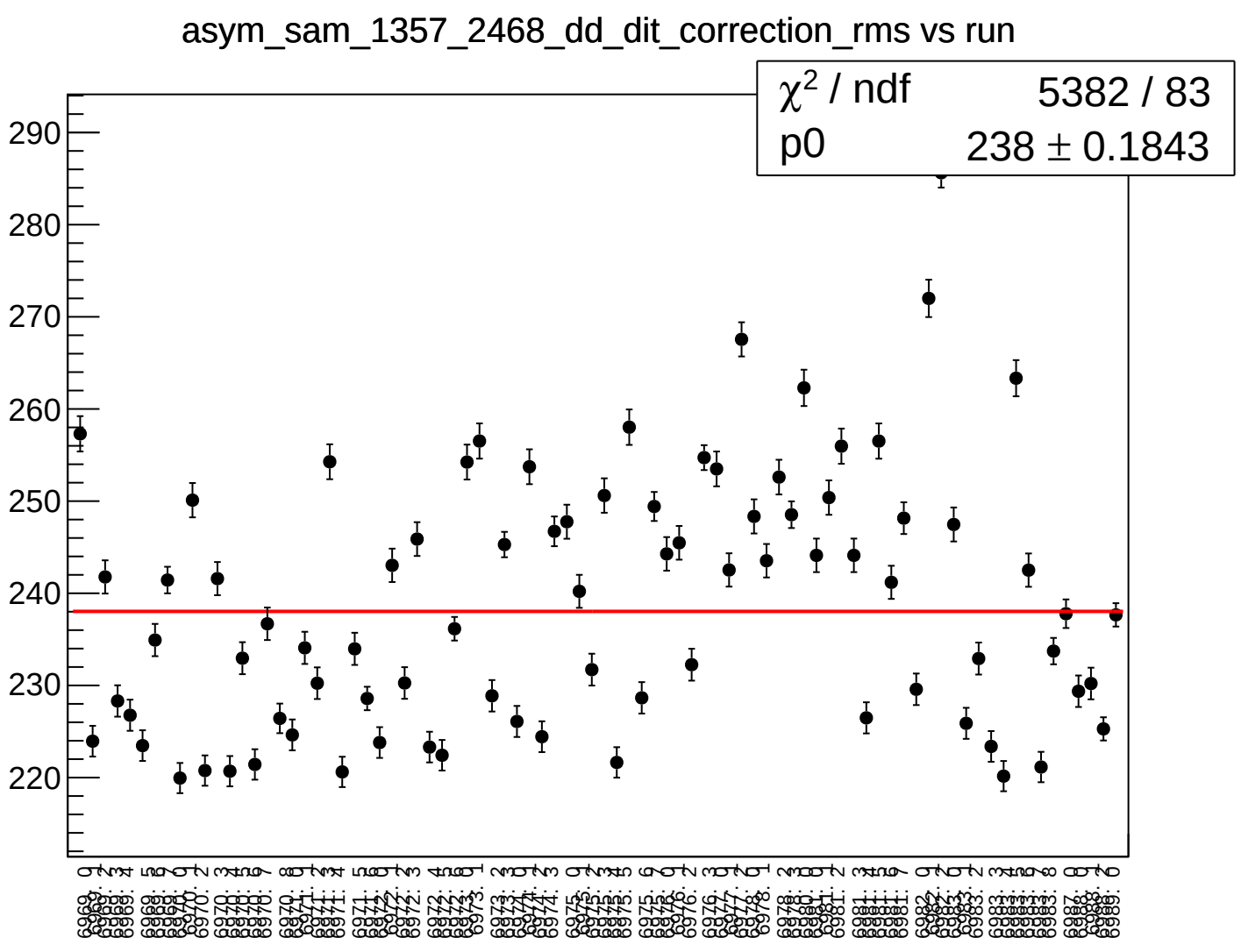

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 116.8 / 83
p0 4.929 ± 31.15
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −108.2
Std Dev 0
2
1
0
−1
−2
−3

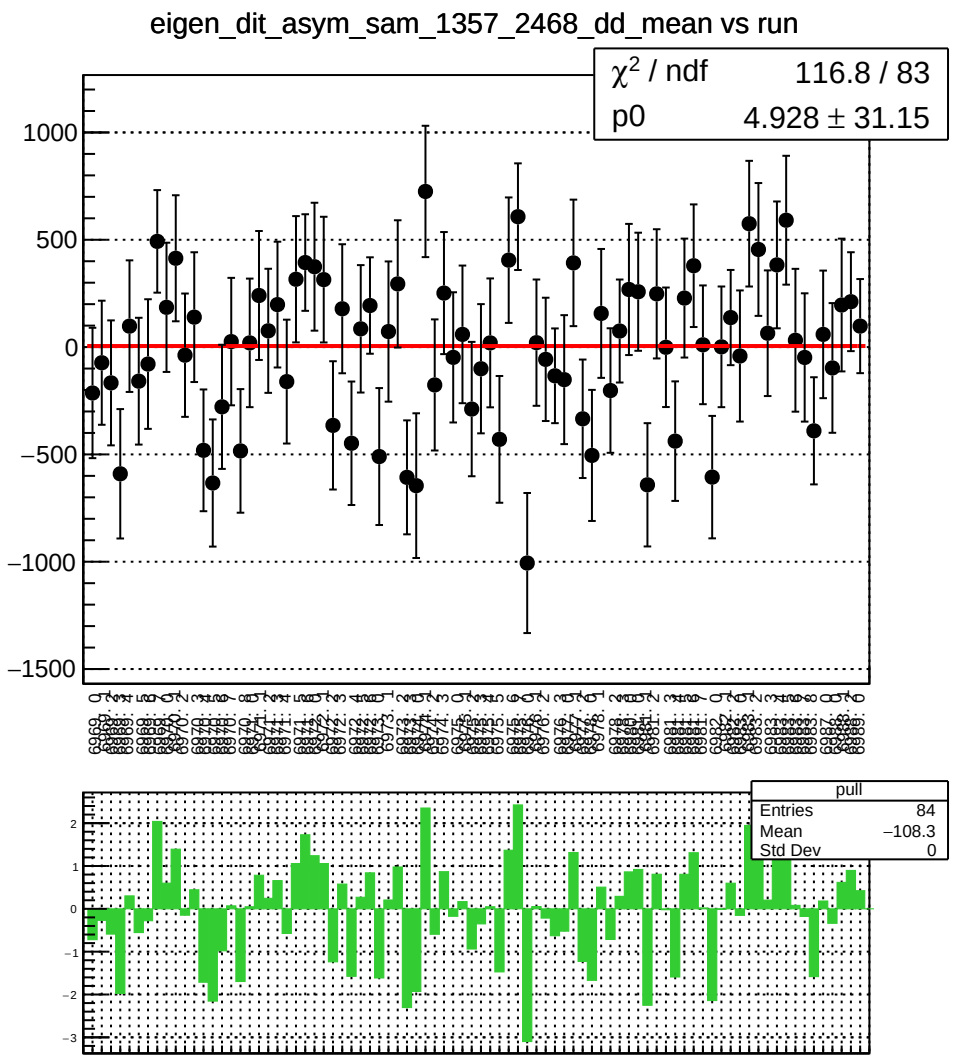

pull1D
Entries 84
Mean −0.02248
Std Dev 1.179
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

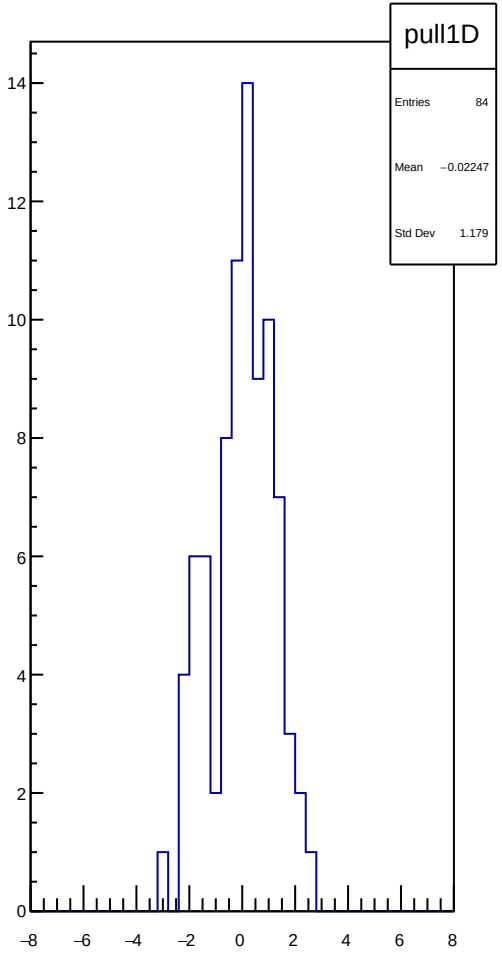

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3290 / 83
p0 28.46 ± 0.02202
34
33
32
31
30
29
28
27
26

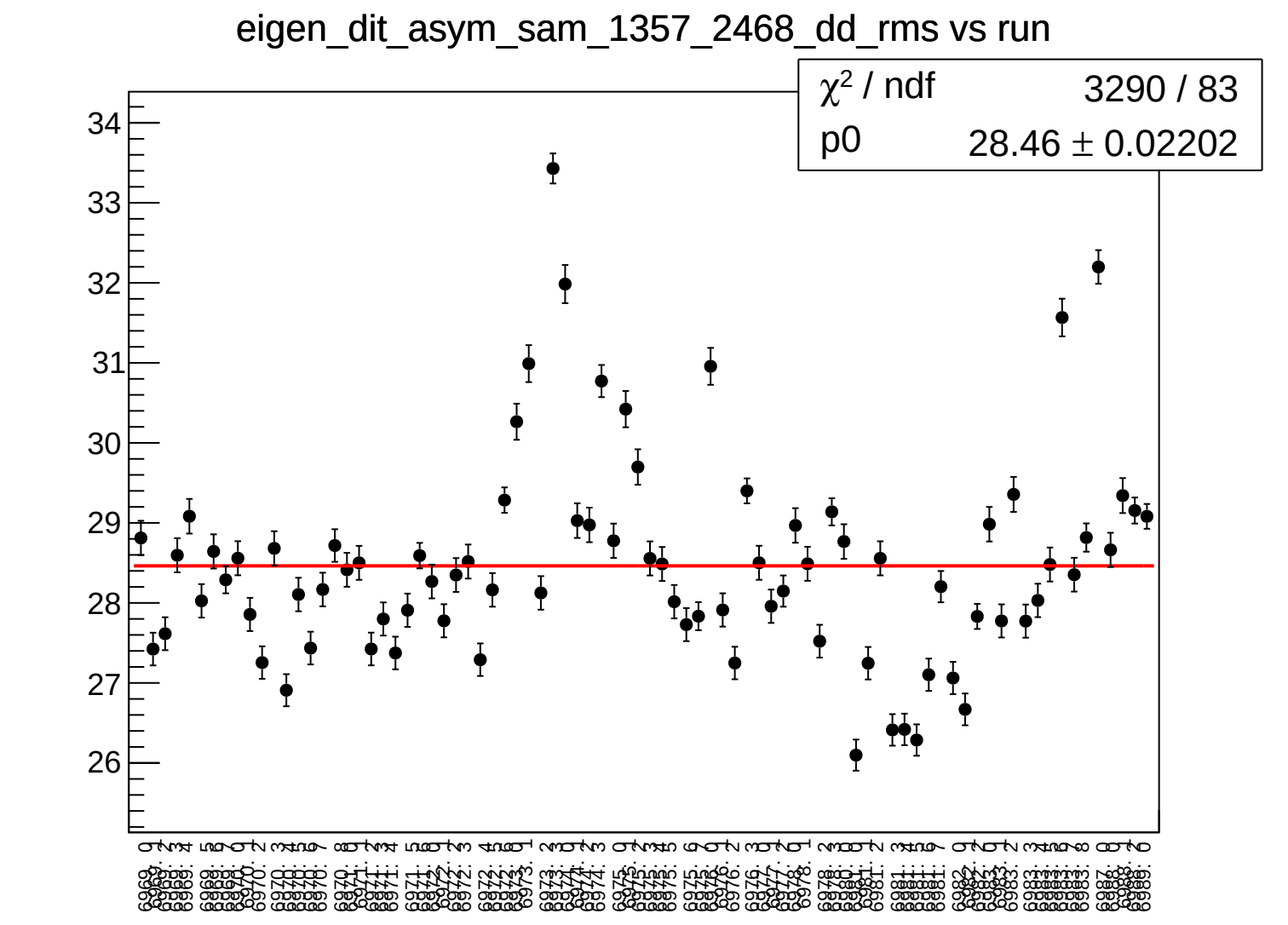

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 84.19 / 83
p0 −33.9 ± 260.6
pull
Entries 84
Mean −641.5
Std Dev 0

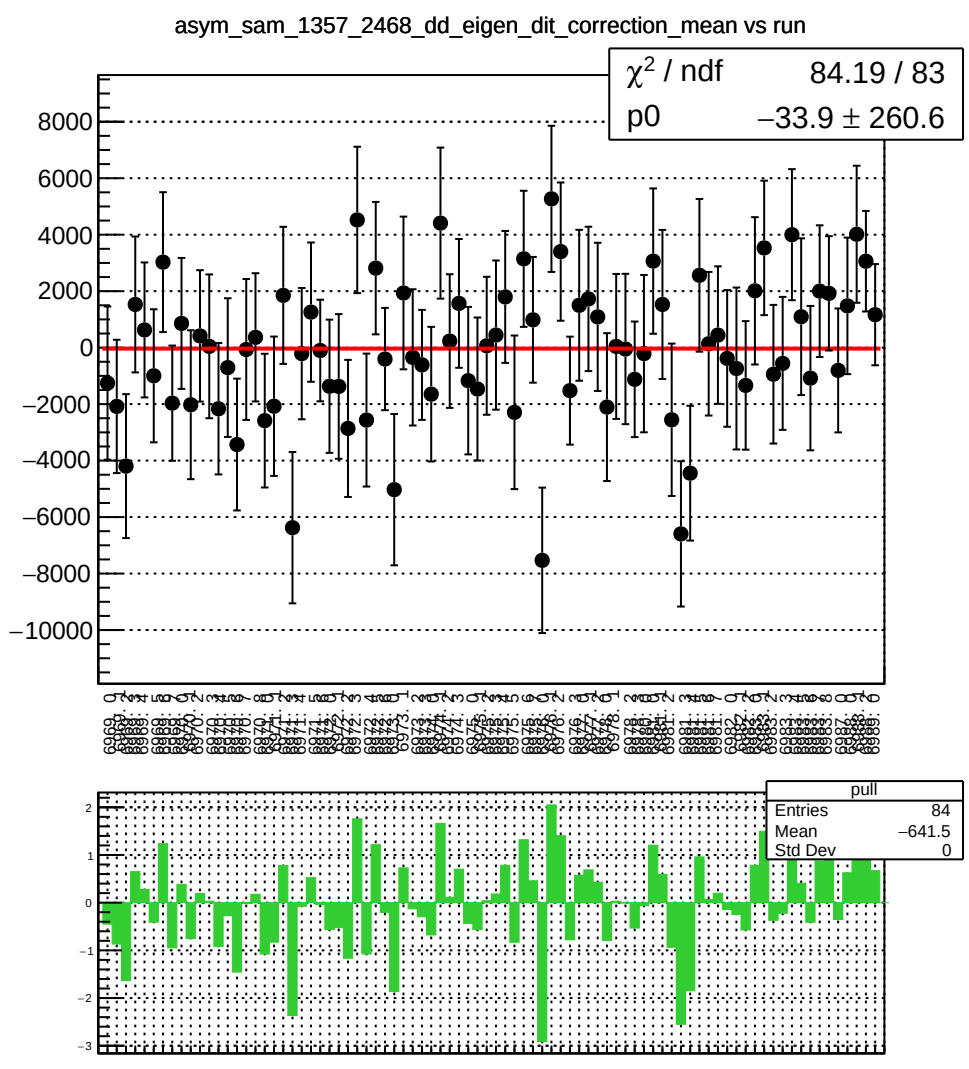

pull1D
Entries 84
Mean −0.009256
Std Dev 1.001

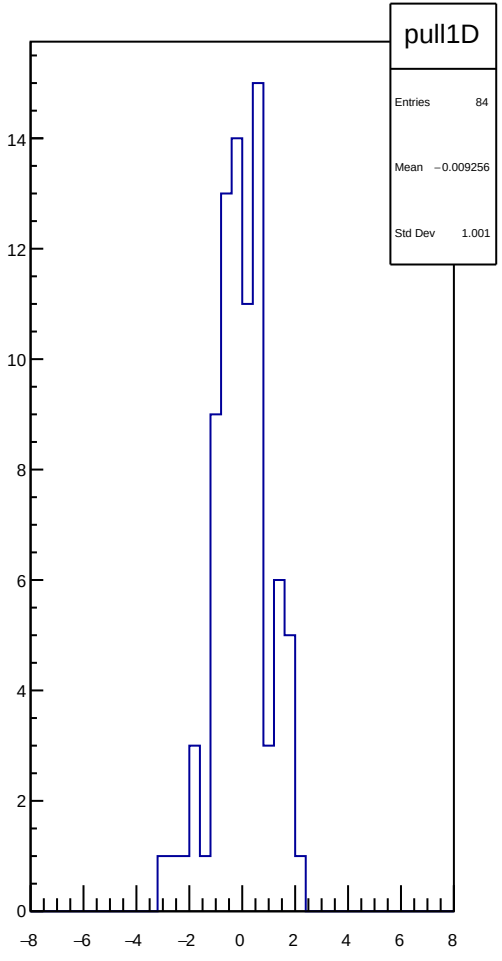

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ^2 / ndf 5382 / 83
p0 238 ± 0.1843
290
280
270
260
250
240
230
220

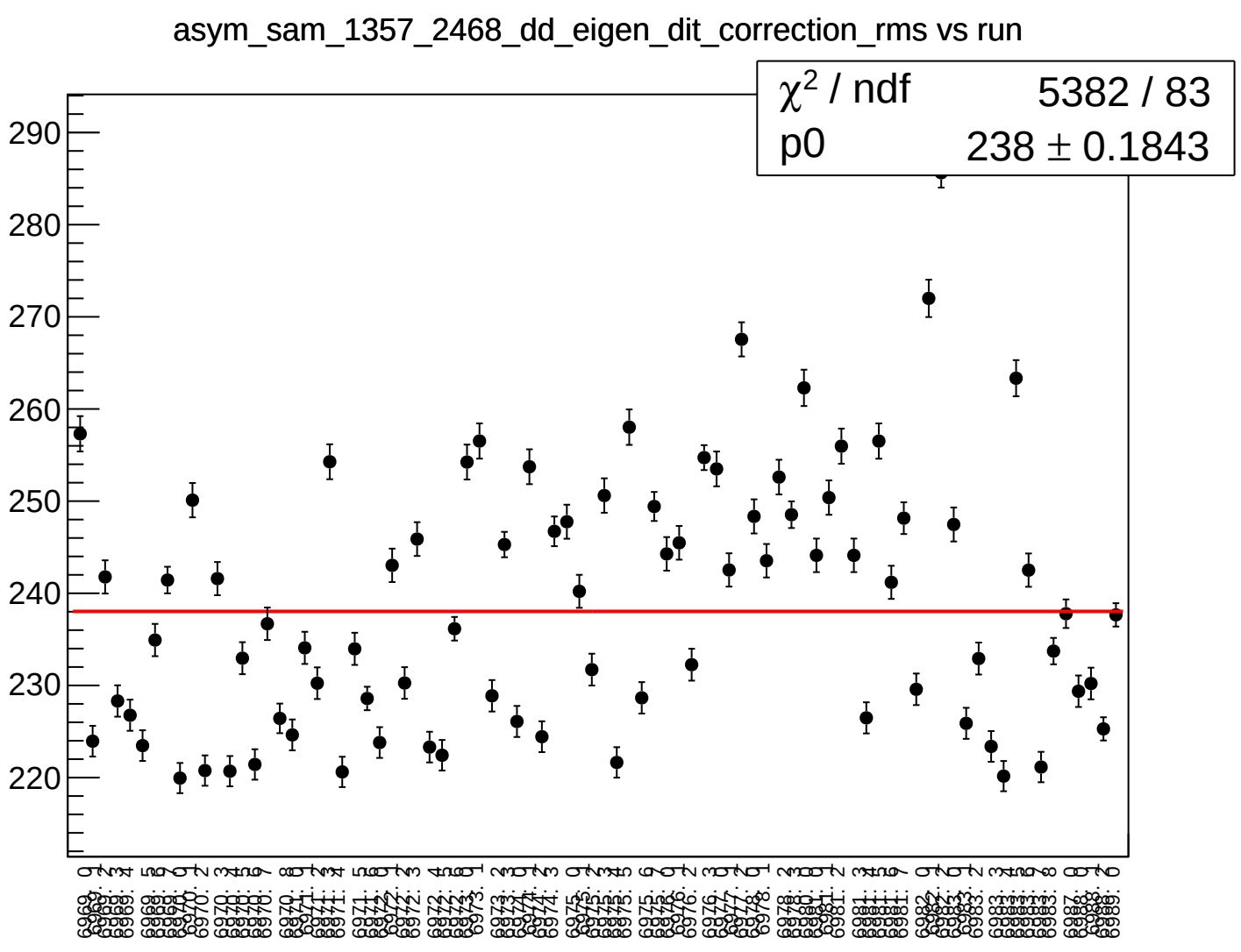

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 116.8 / 83
p0 4.928 ± 31.15
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −108.3
Std Dev 0
2
1
0
−1
−2
−3

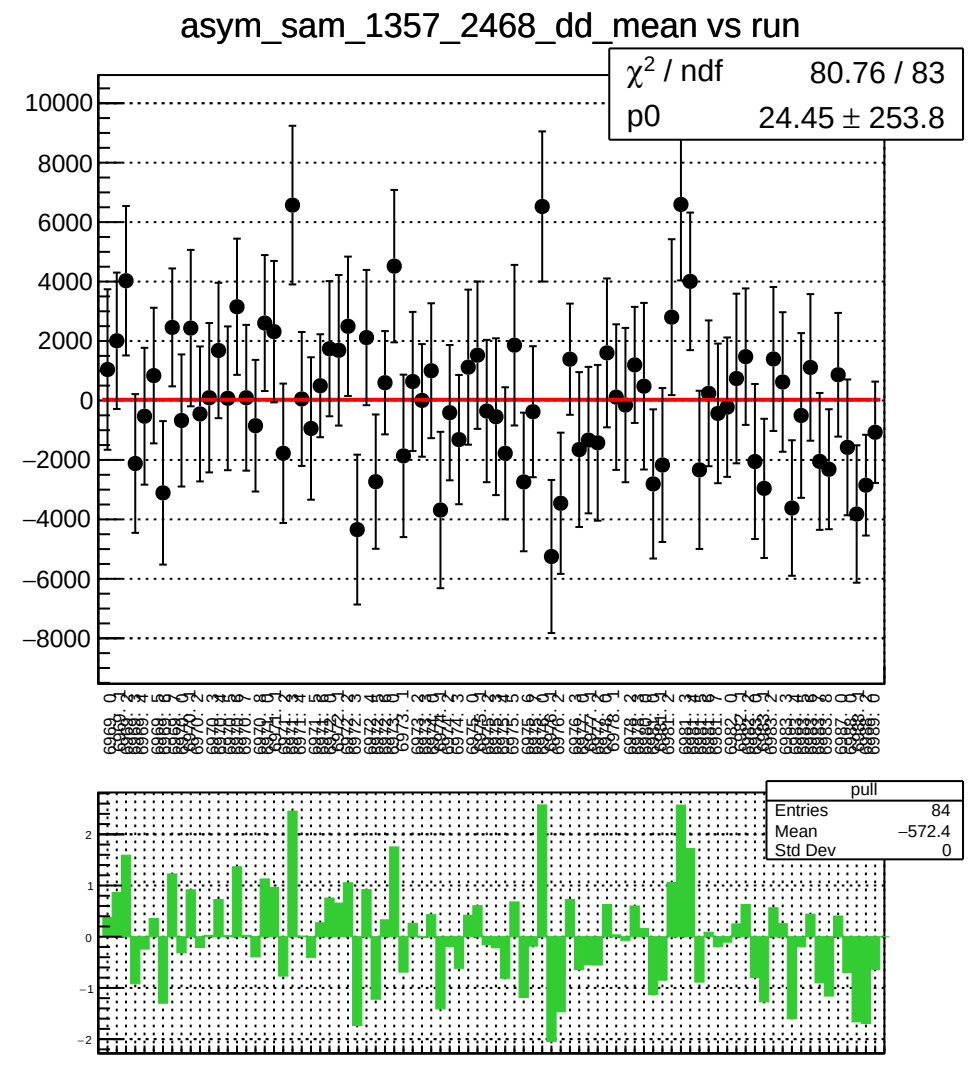

pull1D
Entries 84
Mean −0.02247
Std Dev 1.179
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

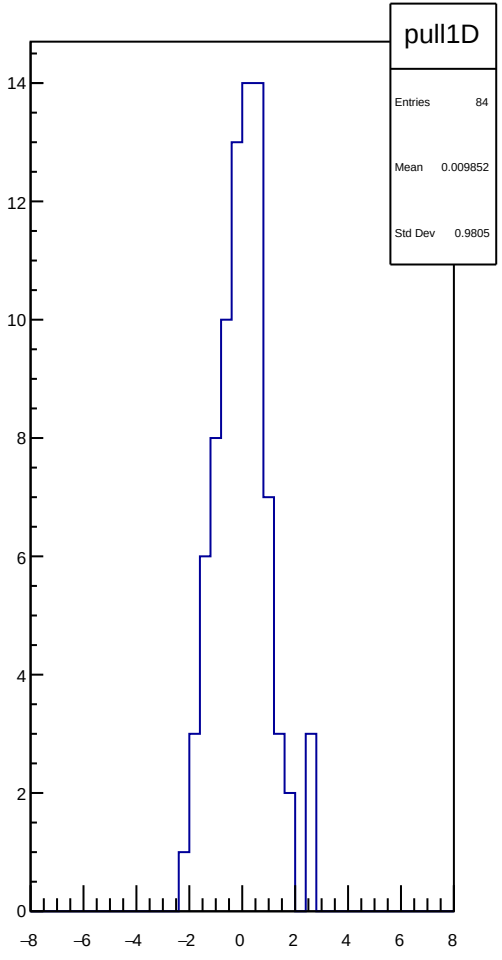

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3290 / 83
p0 28.46 ± 0.02202
34
33
32
31
30
29
28
27
26

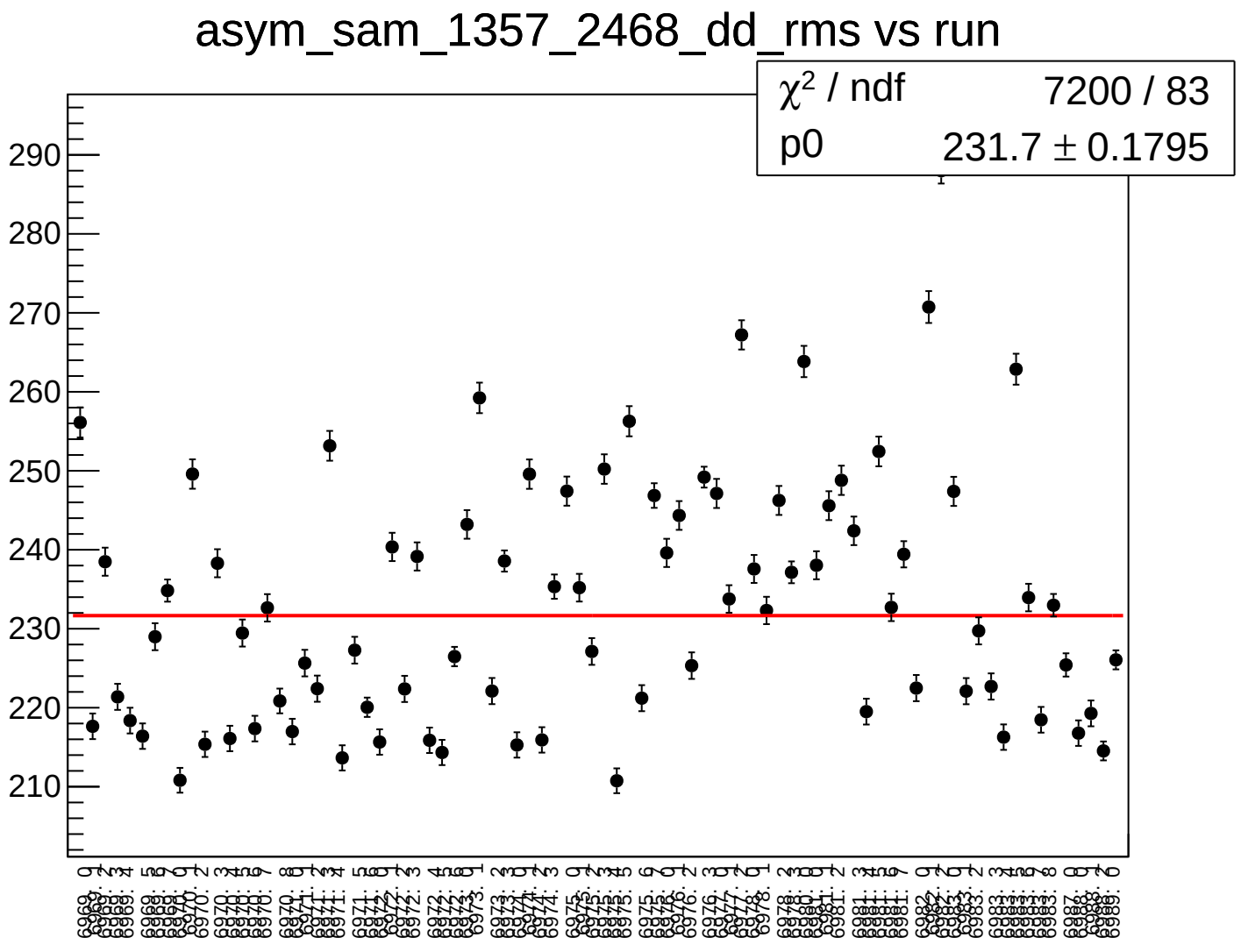

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.19 / 83
p0 −33.9 ± 260.6
pull
Entries 84
Mean −641.5
Std Dev 0

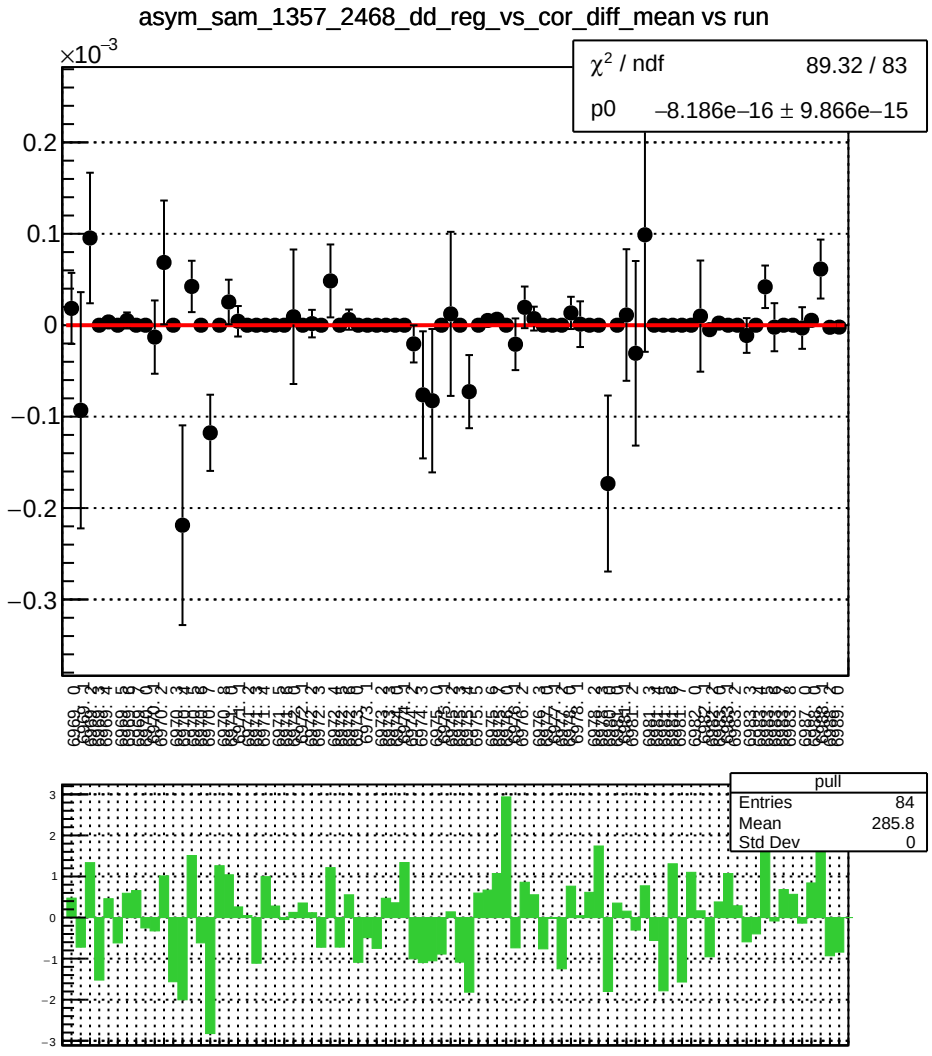

pull1D
Entries 84
Mean −0.009256
Std Dev 1.001

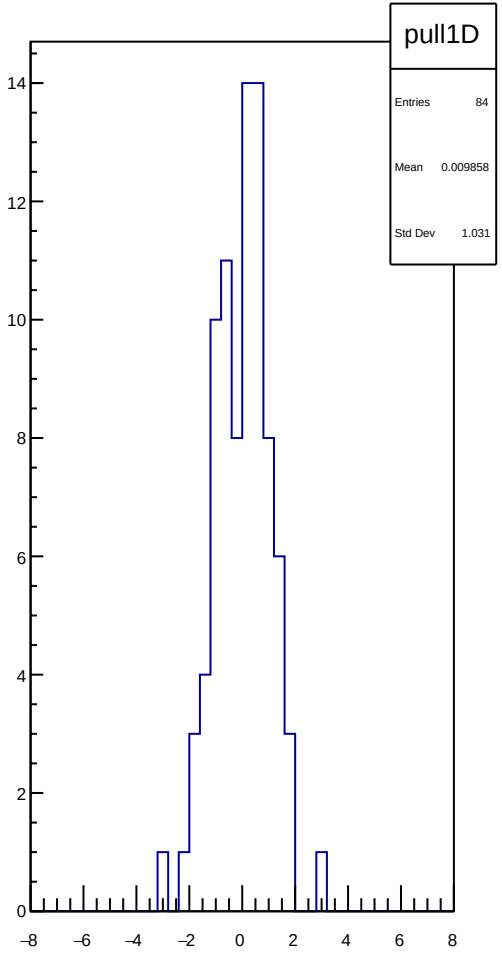

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5382 / 83
p0 238 ± 0.1843
290
280
270
260
250
240
230
220

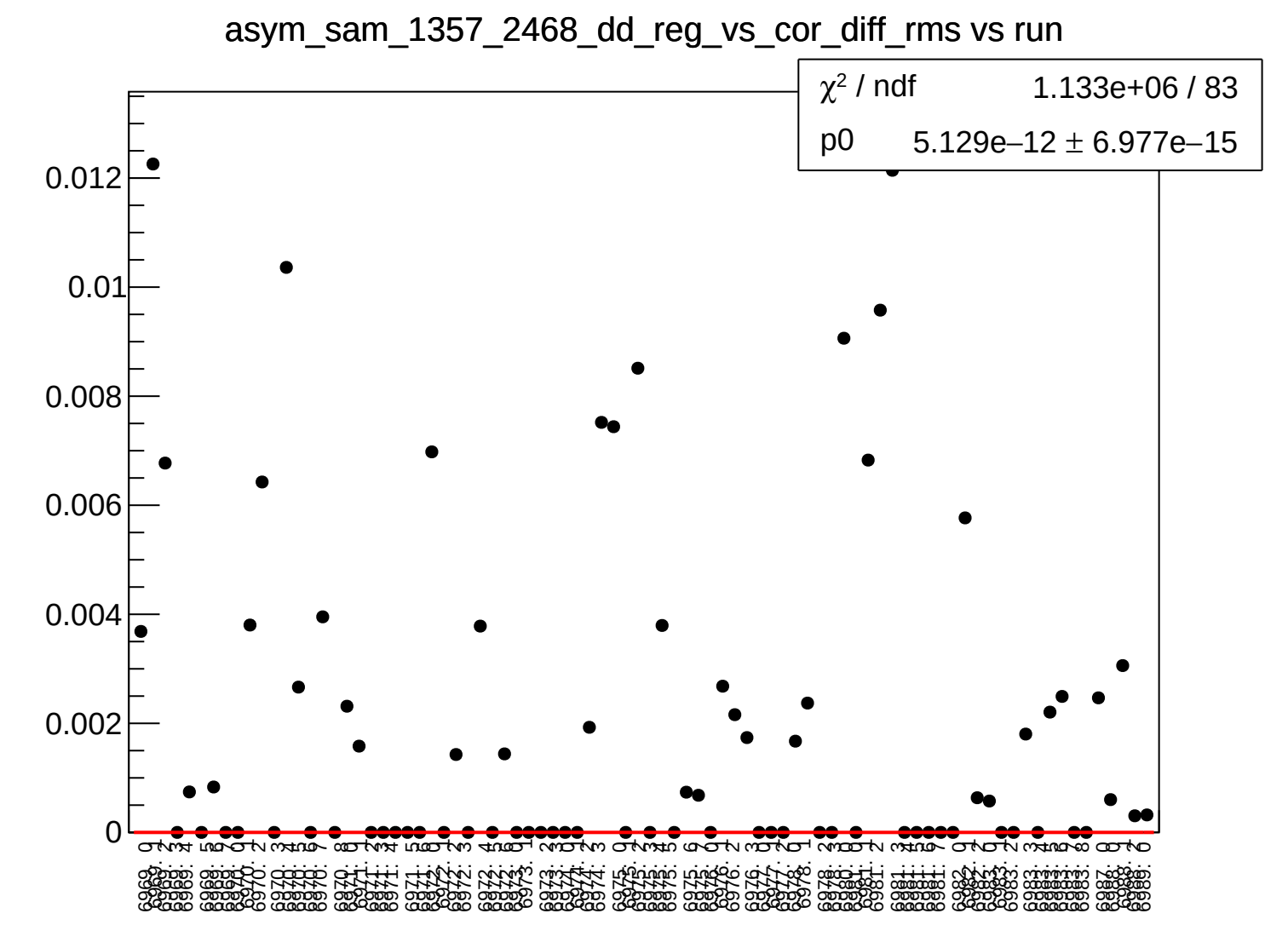

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 80.76 / 83
p0 24.45 ± 253.8
pull
Entries 84
Mean −572.4
Std Dev 0

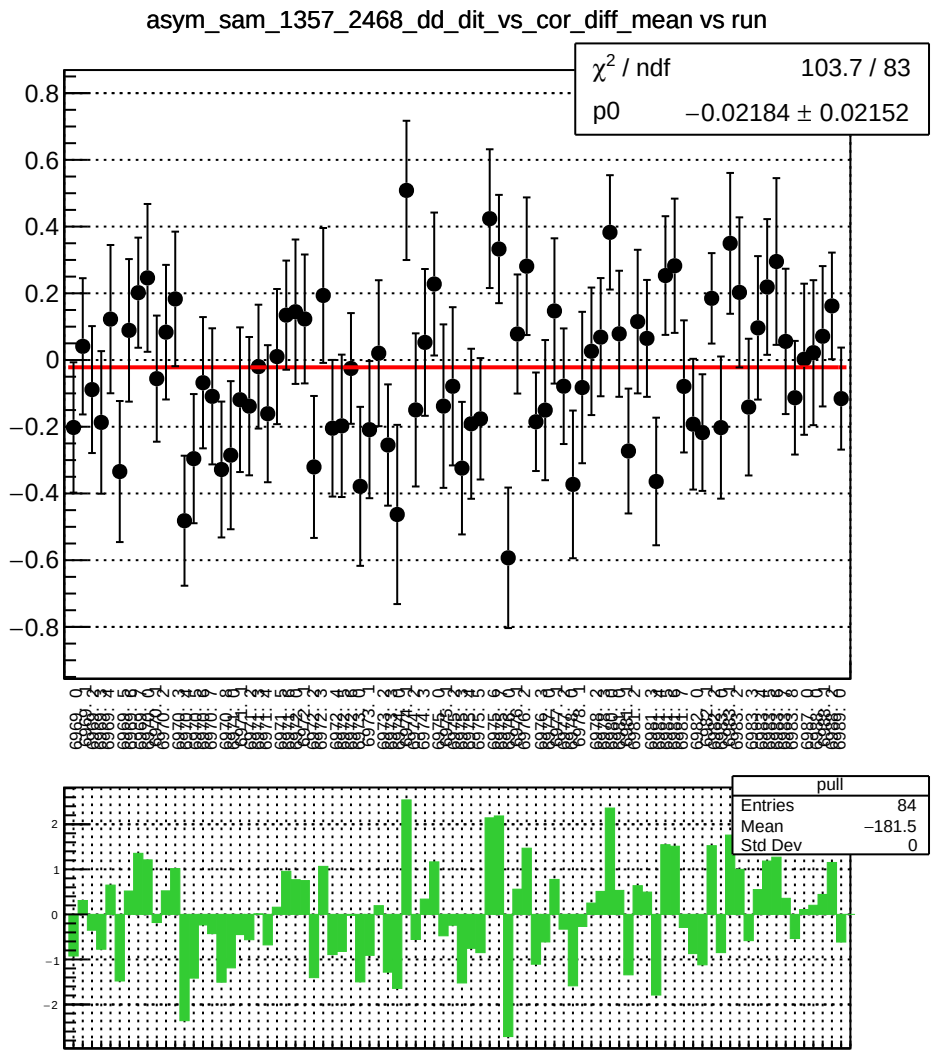

pull1D
Entries 84
Mean 0.009852
Std Dev 0.9805

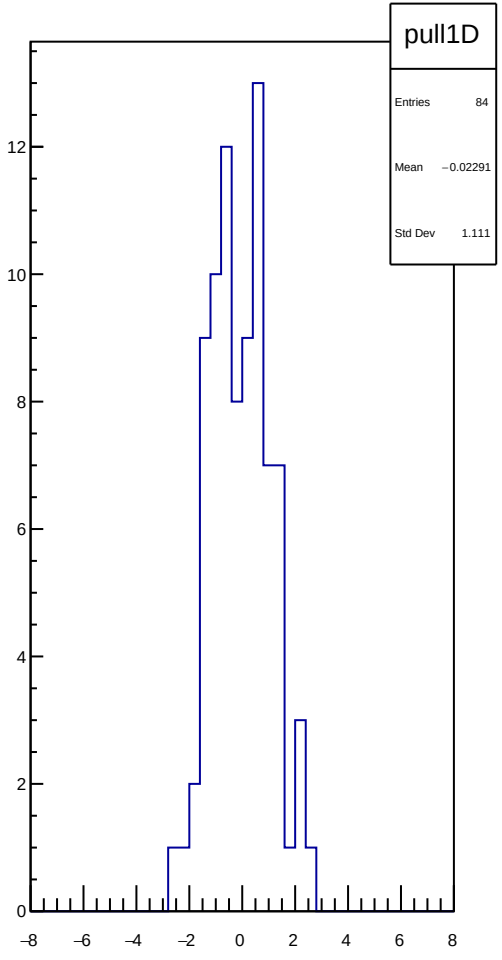

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7200 / 83
p0 231.7 ± 0.1795
290
280
270
260
250
240
230
220
210

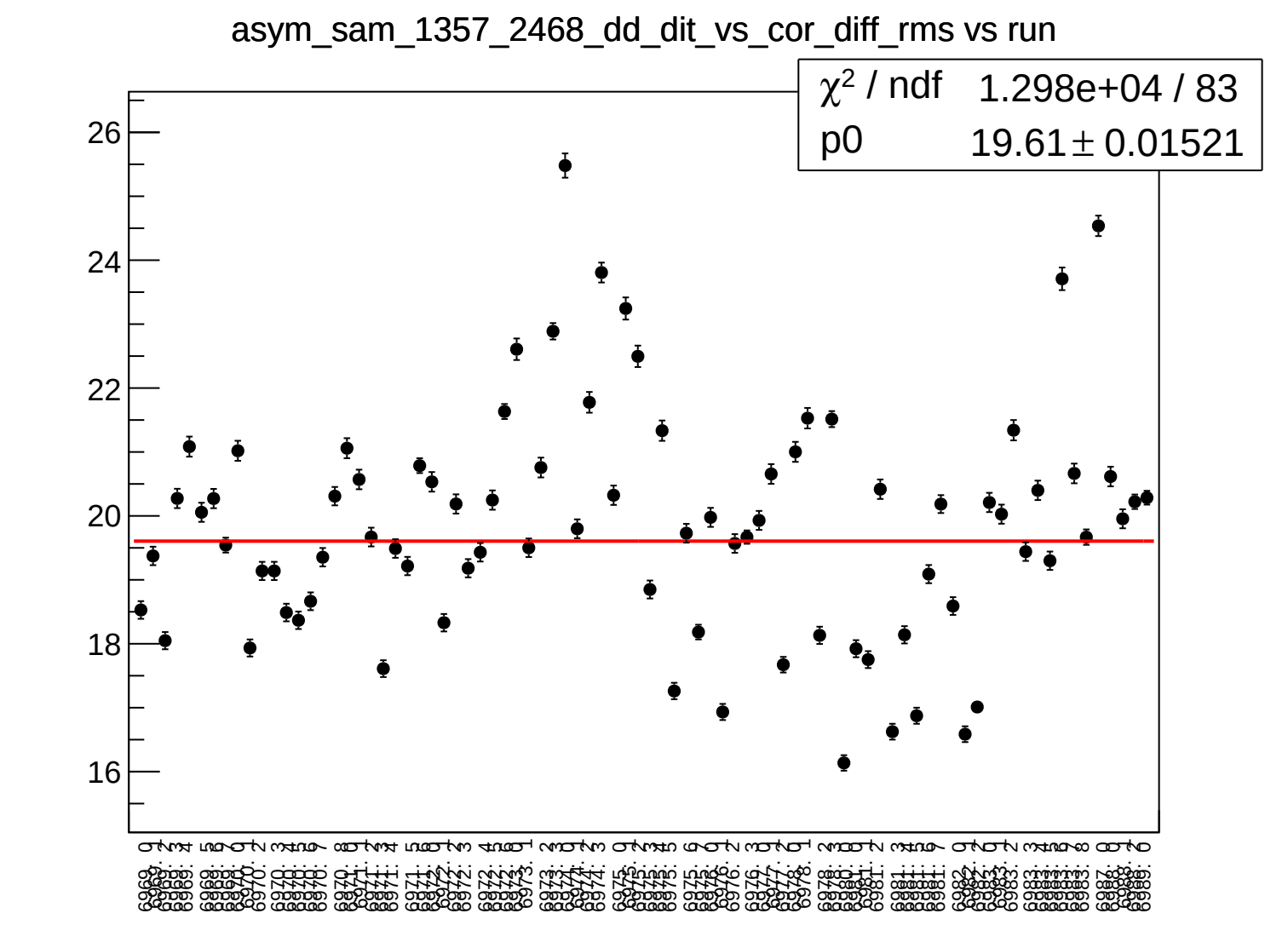

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 89.32 / 83
p0 −8.186e−16 ± 9.866e−15
pull
Entries 84
Mean 285.8
Std Dev 0

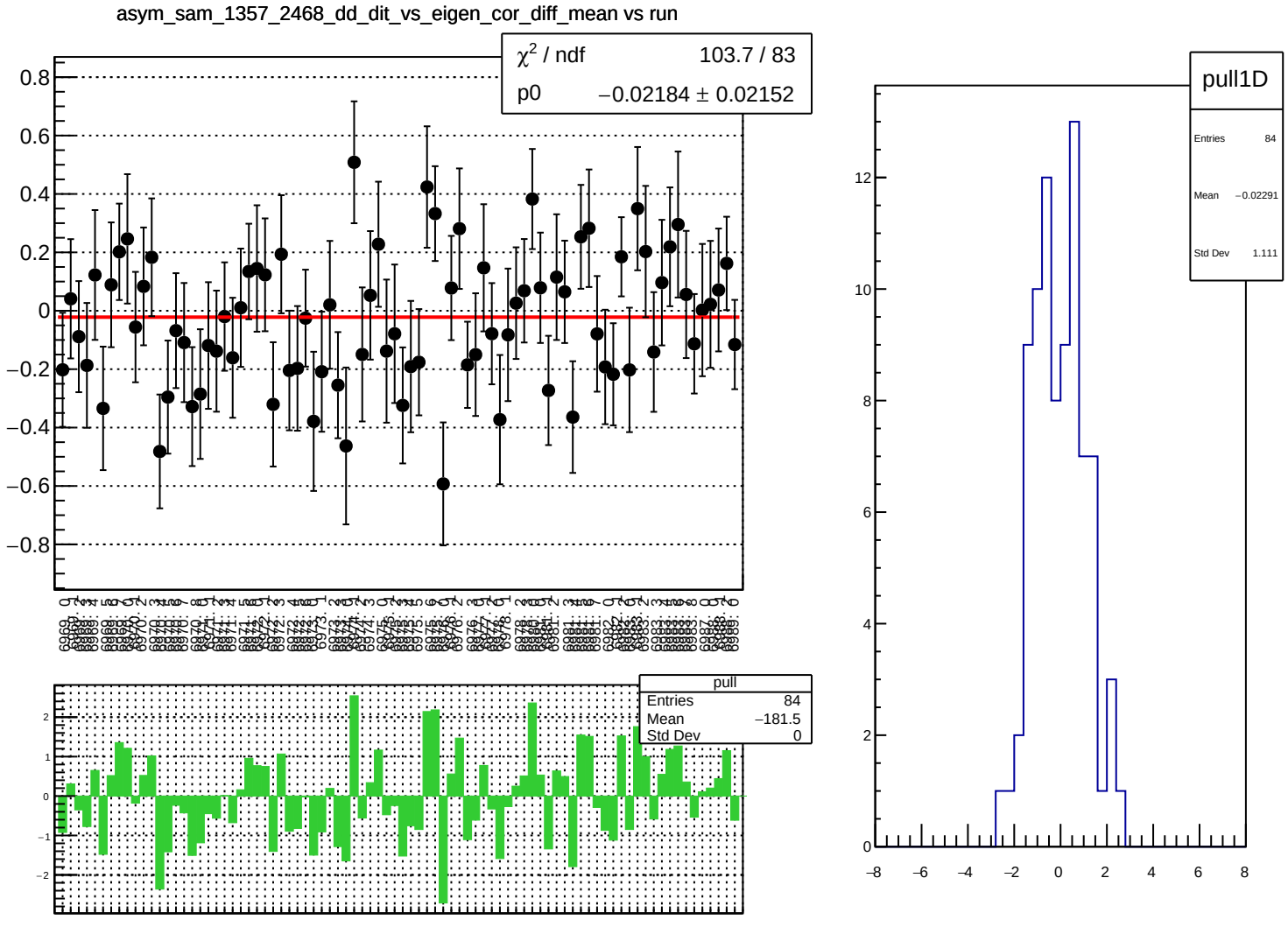

pull1D
Entries 84
Mean 0.009858
Std Dev 1.031

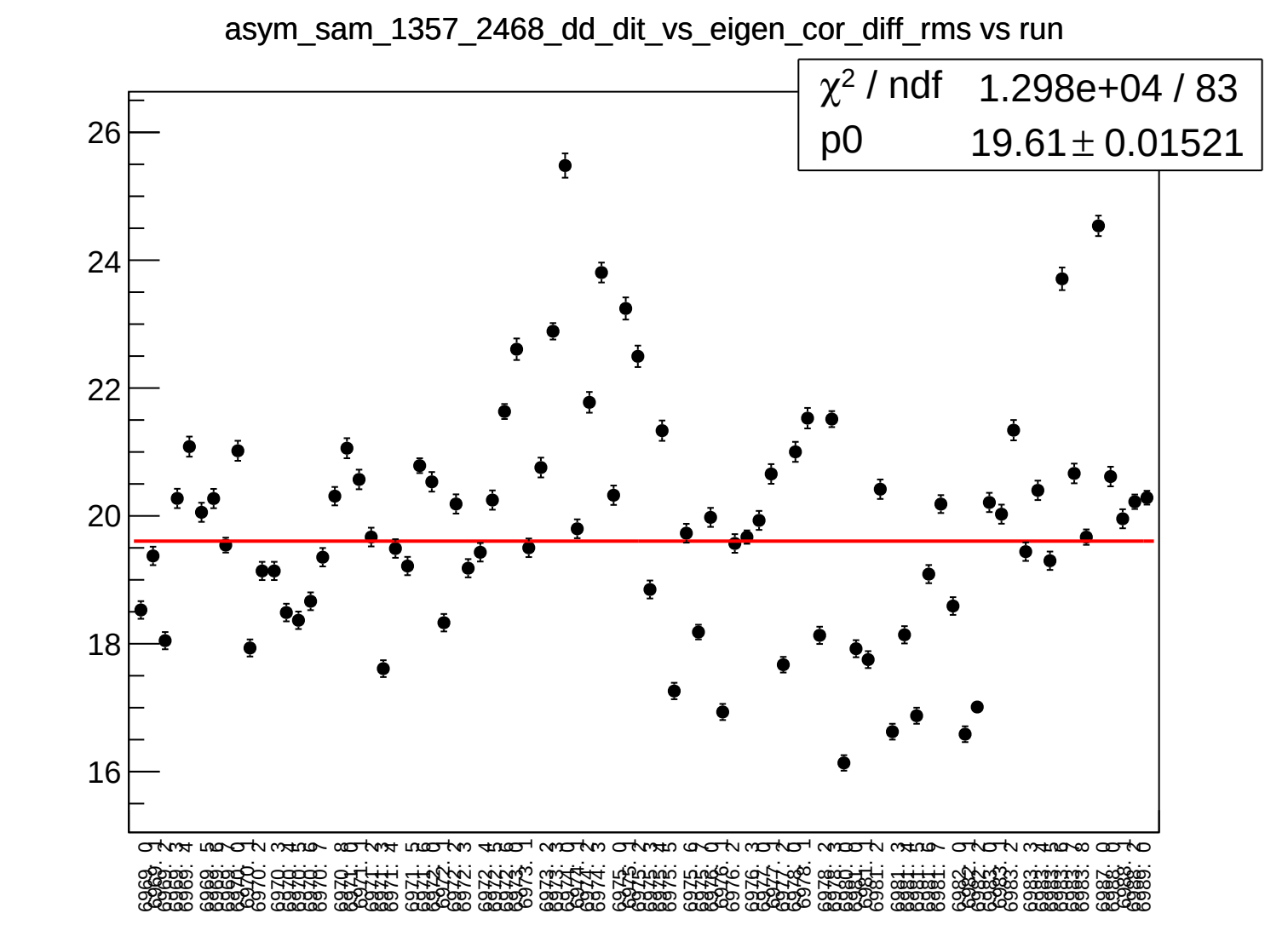

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.133e+06 / 83
p0 5.129e−12 ± 6.977e−15
0.012
0.01
0.008
0.006
0.004
0.002
0

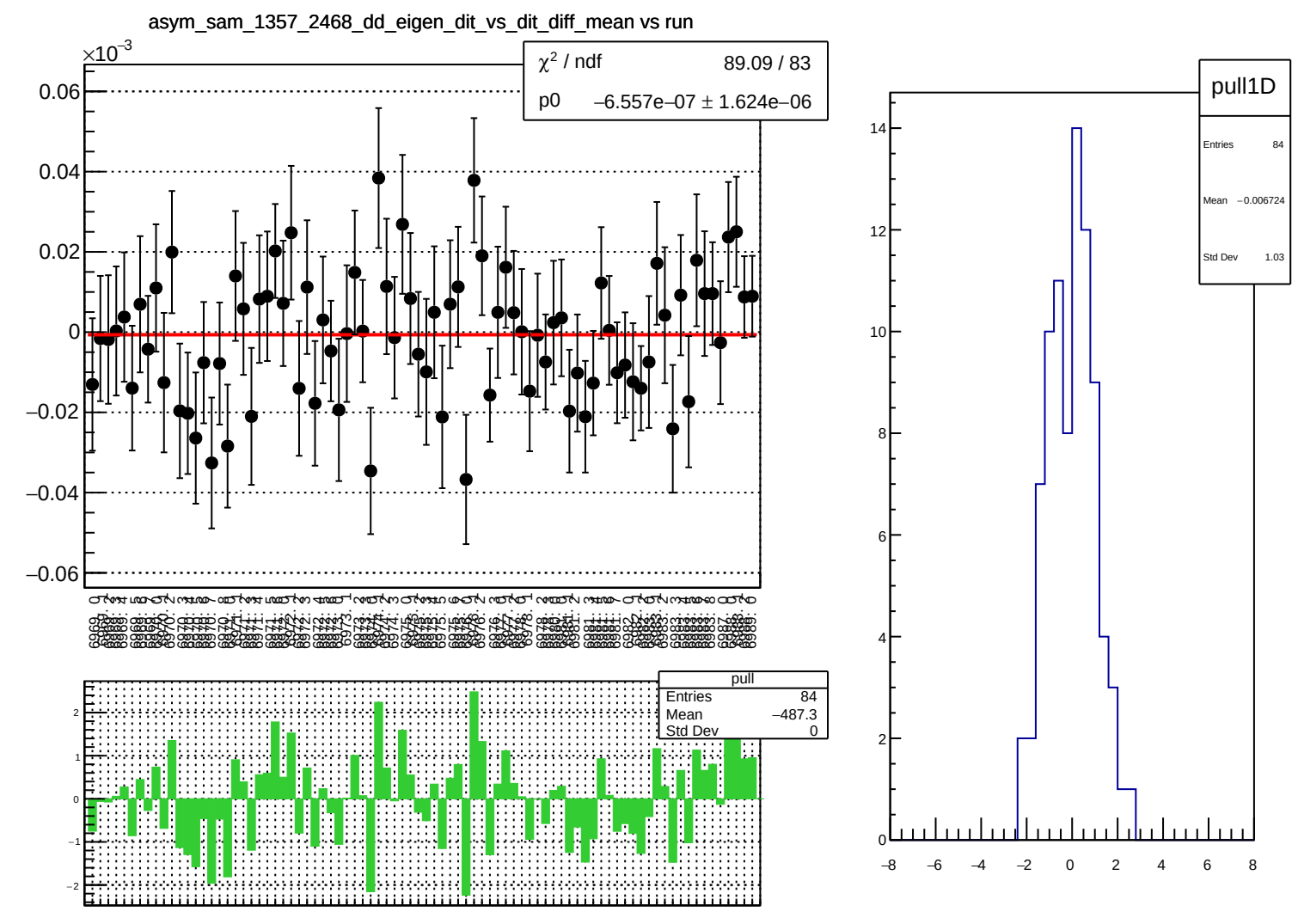

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 83
p0 −0.02184 ± 0.02152
pull
Entries 84
Mean −181.5
Std Dev 0

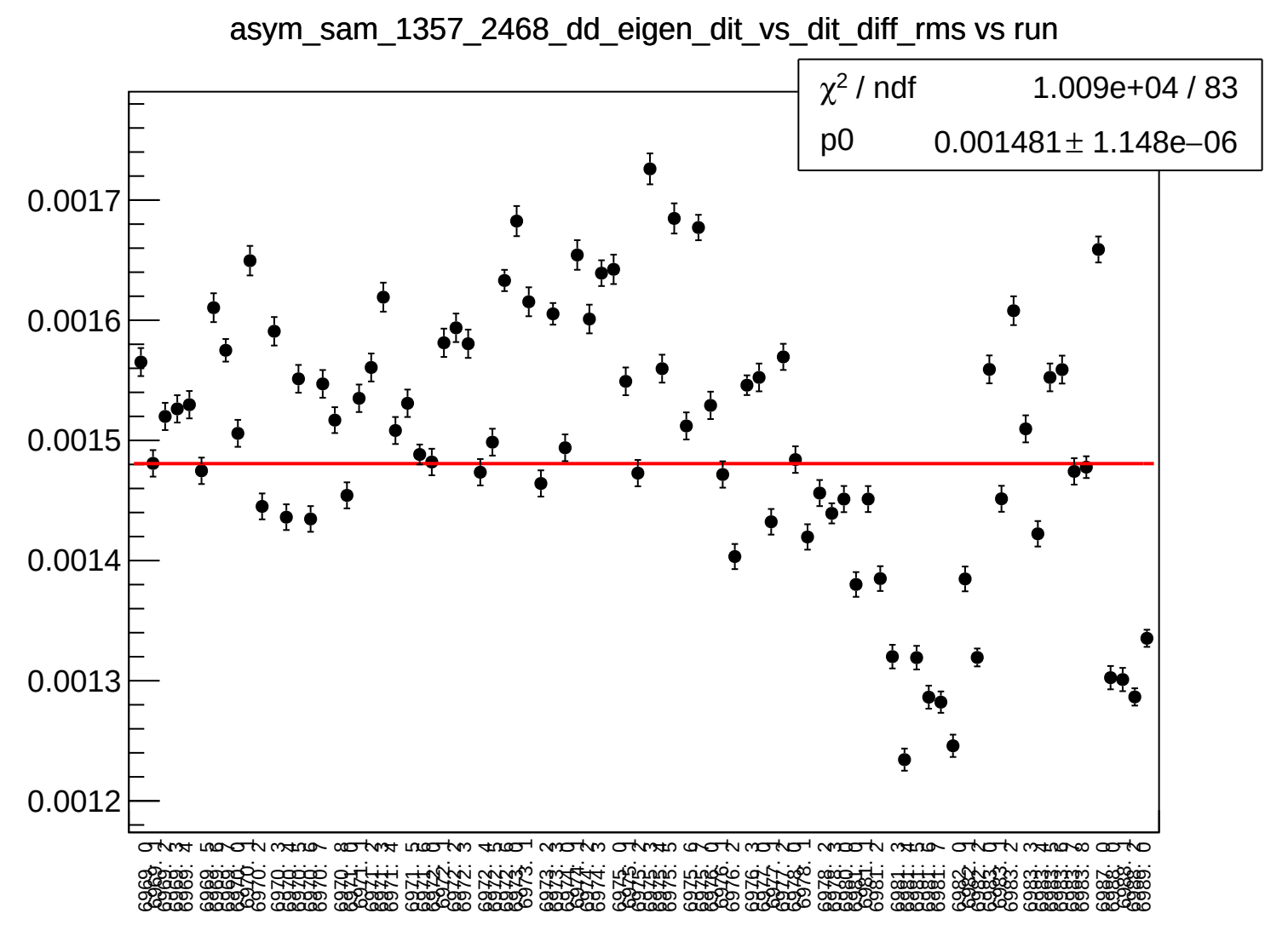

pull1D
Entries 84
Mean −0.02291
Std Dev 1.111

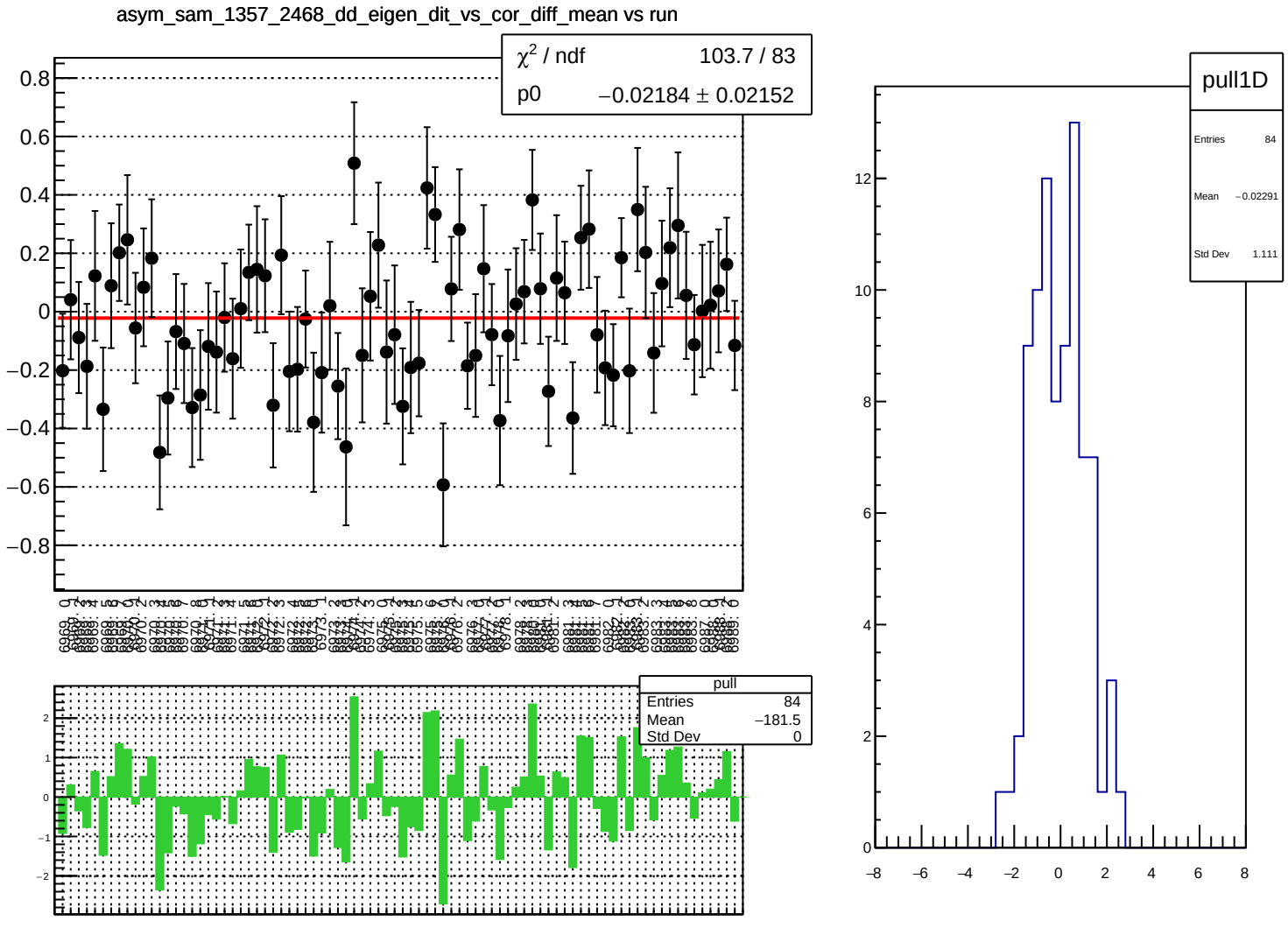

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.298e+04 / 83
p0 19.61 ± 0.01521
26
24
22
20
18
16

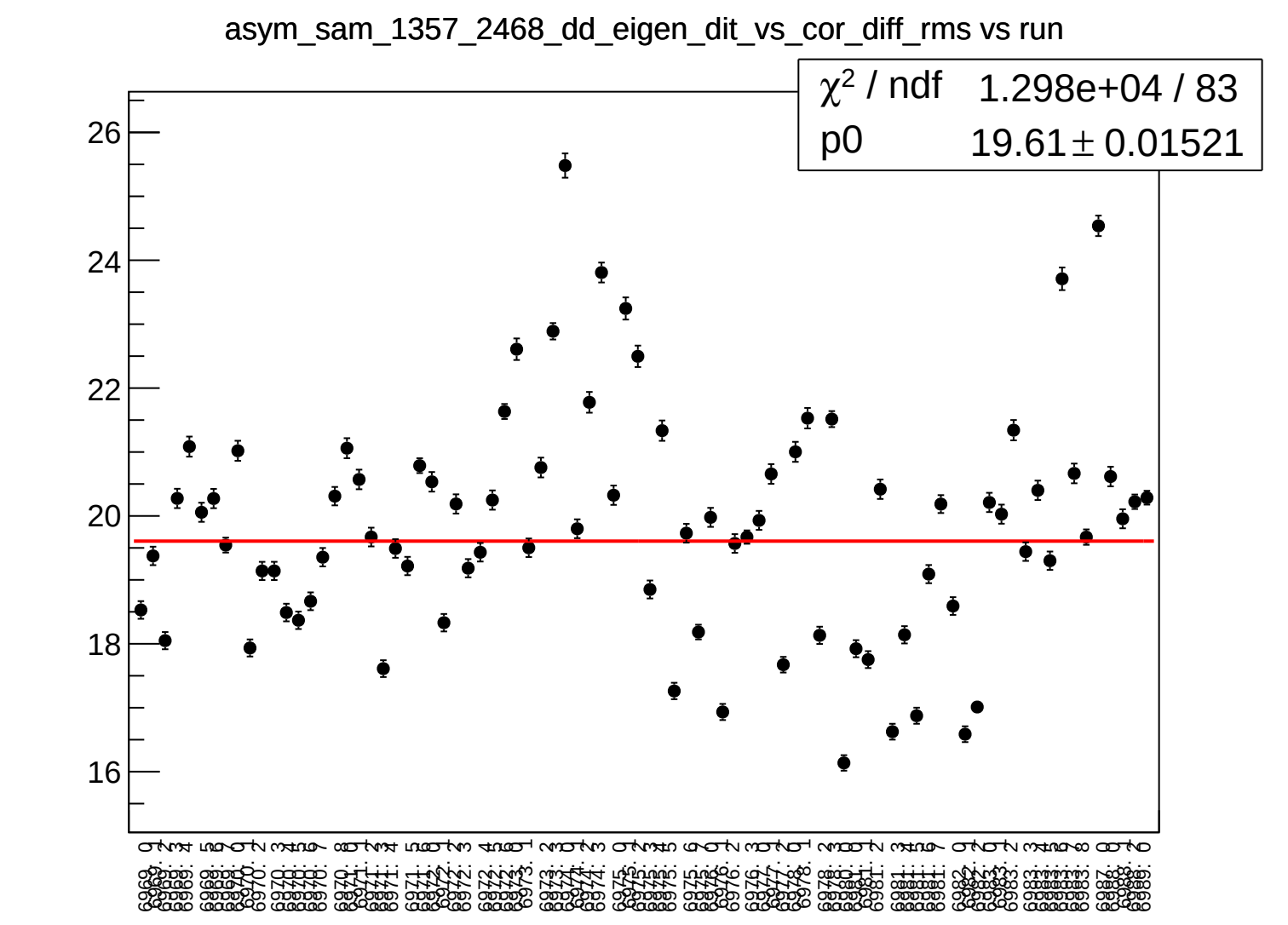

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.7 / 83
p0 −0.02184 ± 0.02152
pull
Entries 84
Mean −181.5
Std Dev 0
pull1D
Entries 84
Mean −0.02291
Std Dev 1.111

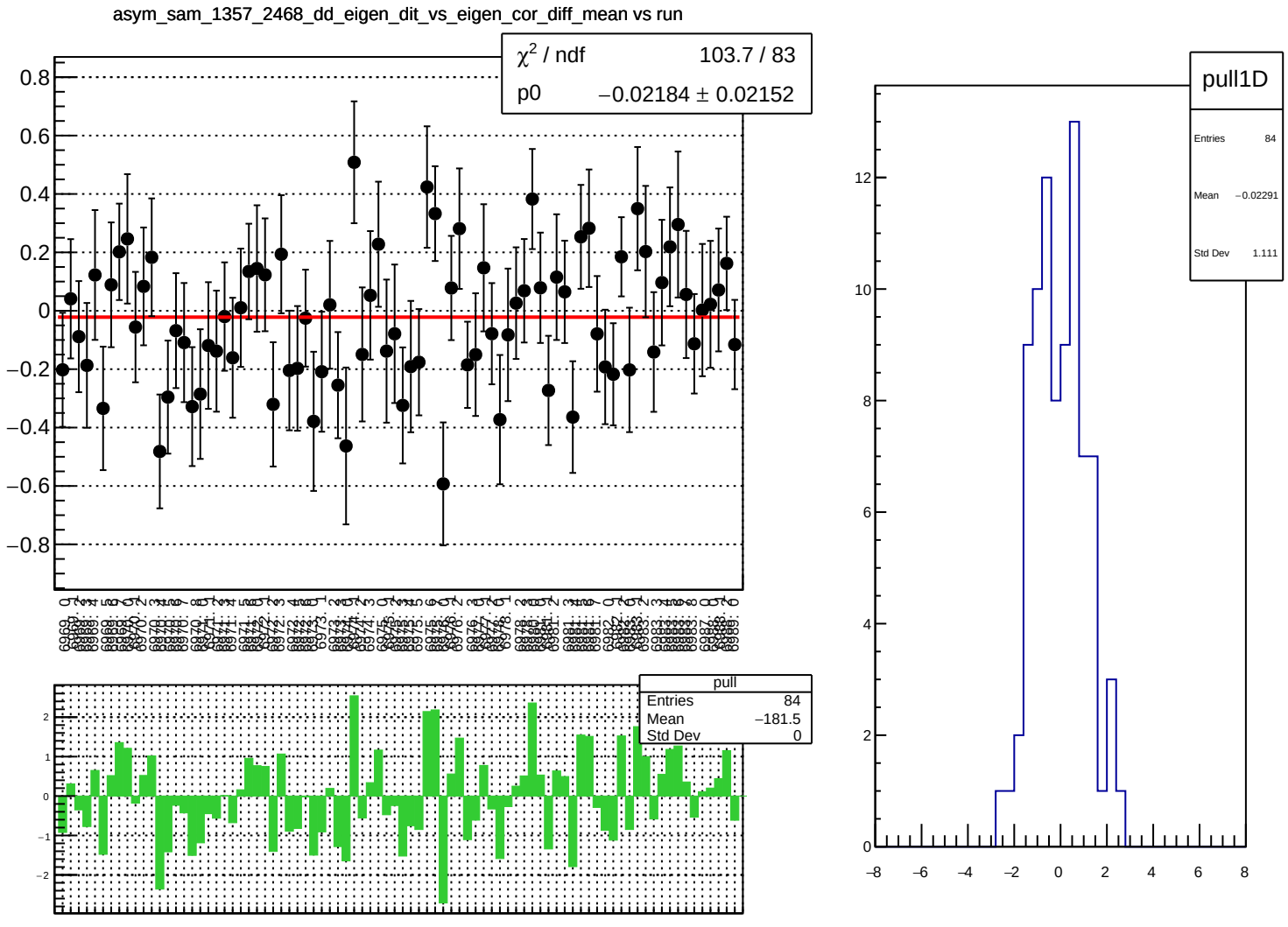

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.298e+04 / 83
p0 19.61 ± 0.01521
26
24
22
20
18
16

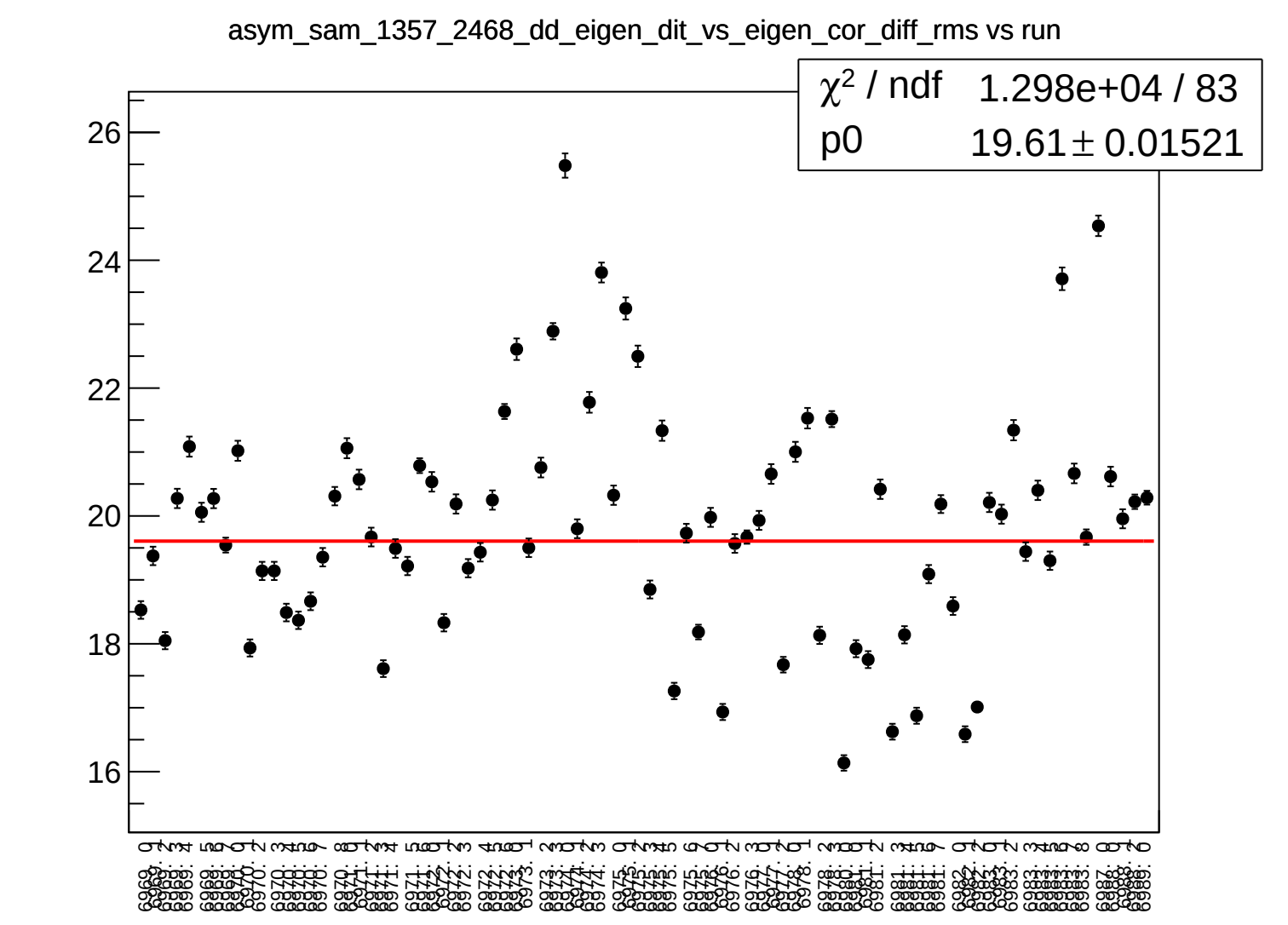

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 89.09 / 83
p0 −6.557e−07 ± 1.624e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean −487.3
Std Dev 0
pull1D
Entries 84
Mean −0.006724
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

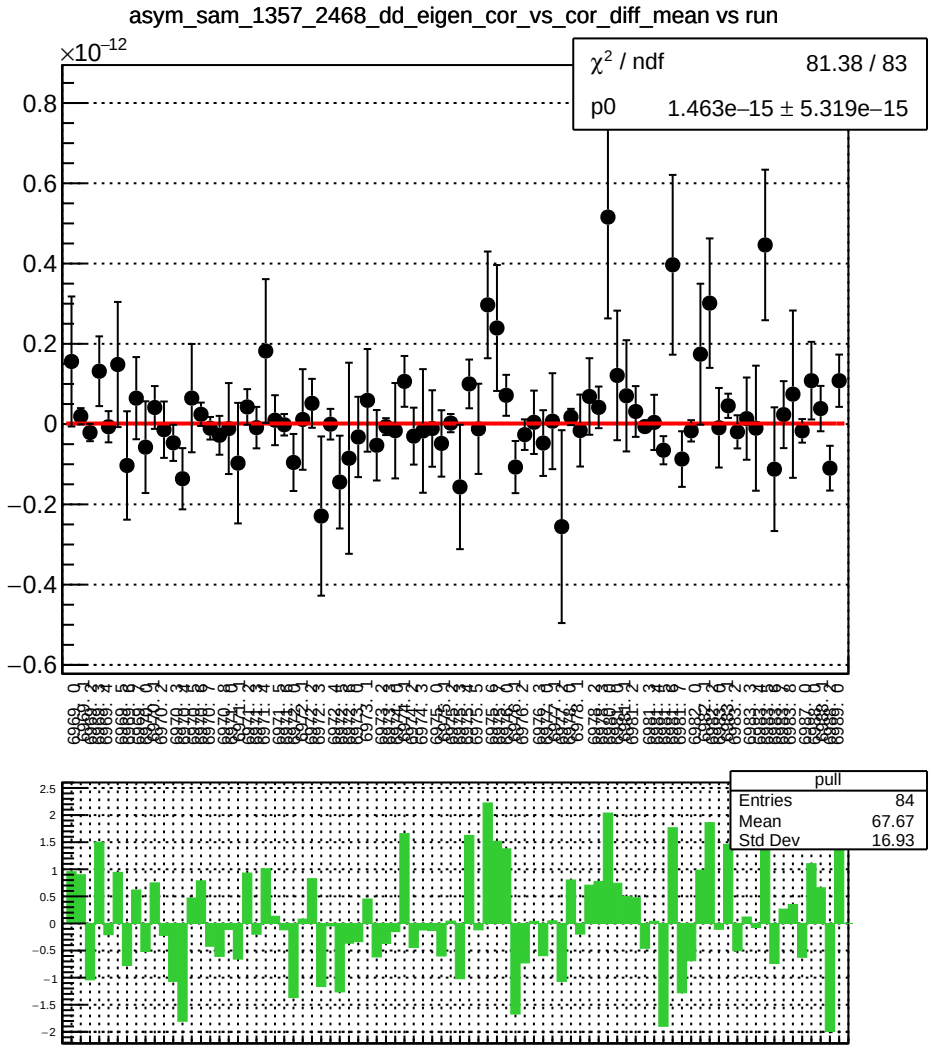

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.009e+04 / 83
p0 0.001481 ± 1.148e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

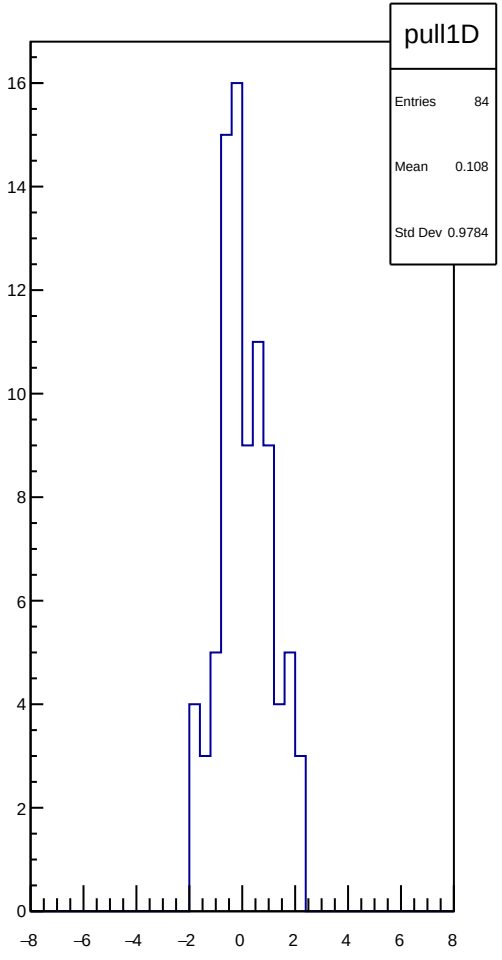

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 83
p0 −0.02184 ± 0.02152
pull
Entries 84
Mean −181.5
Std Dev 0
pull1D
Entries 84
Mean −0.02291
Std Dev 1.111

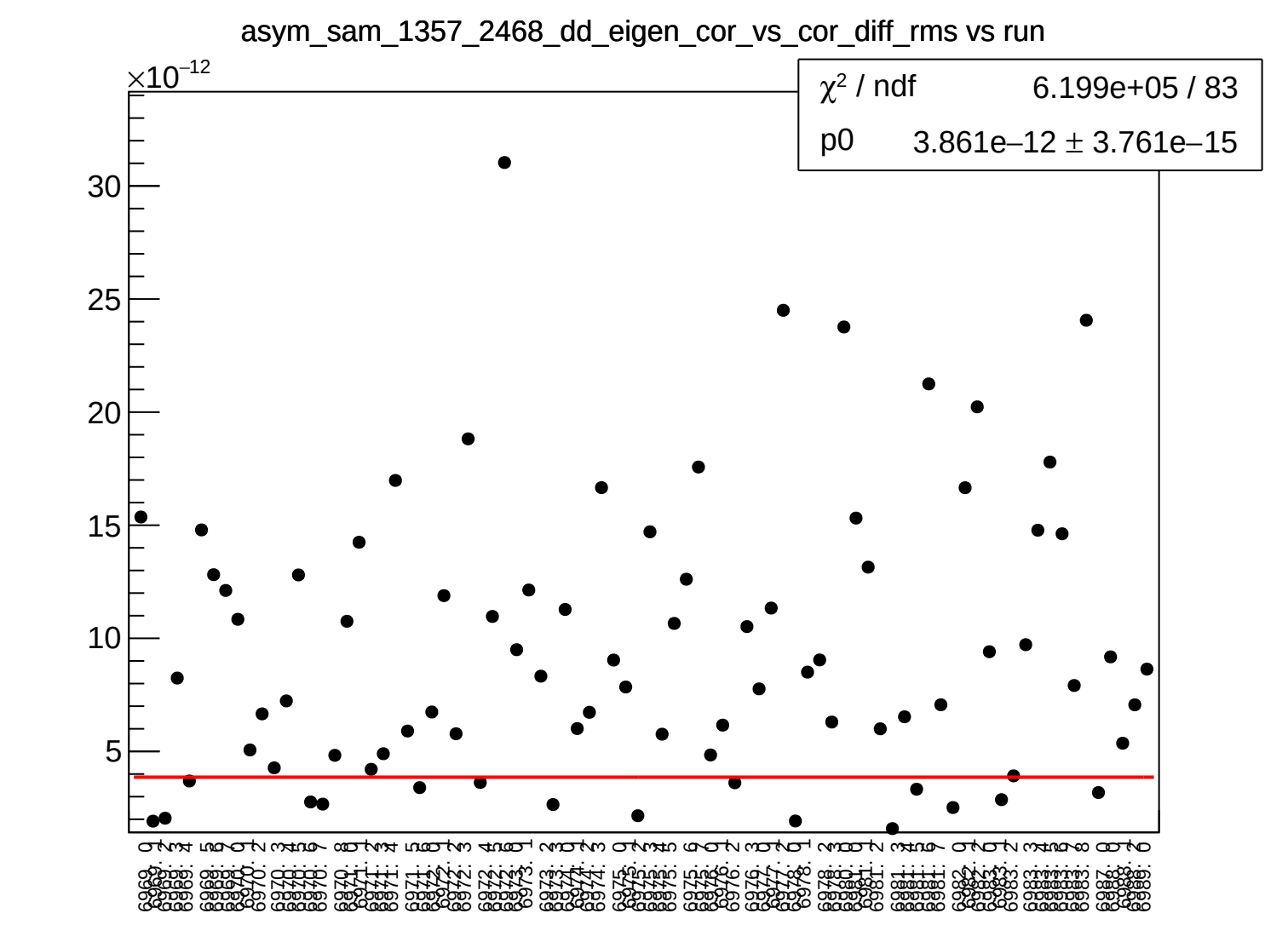

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.298e+04 / 83
p0 19.61 ± 0.01521
26
24
22
20
18
16

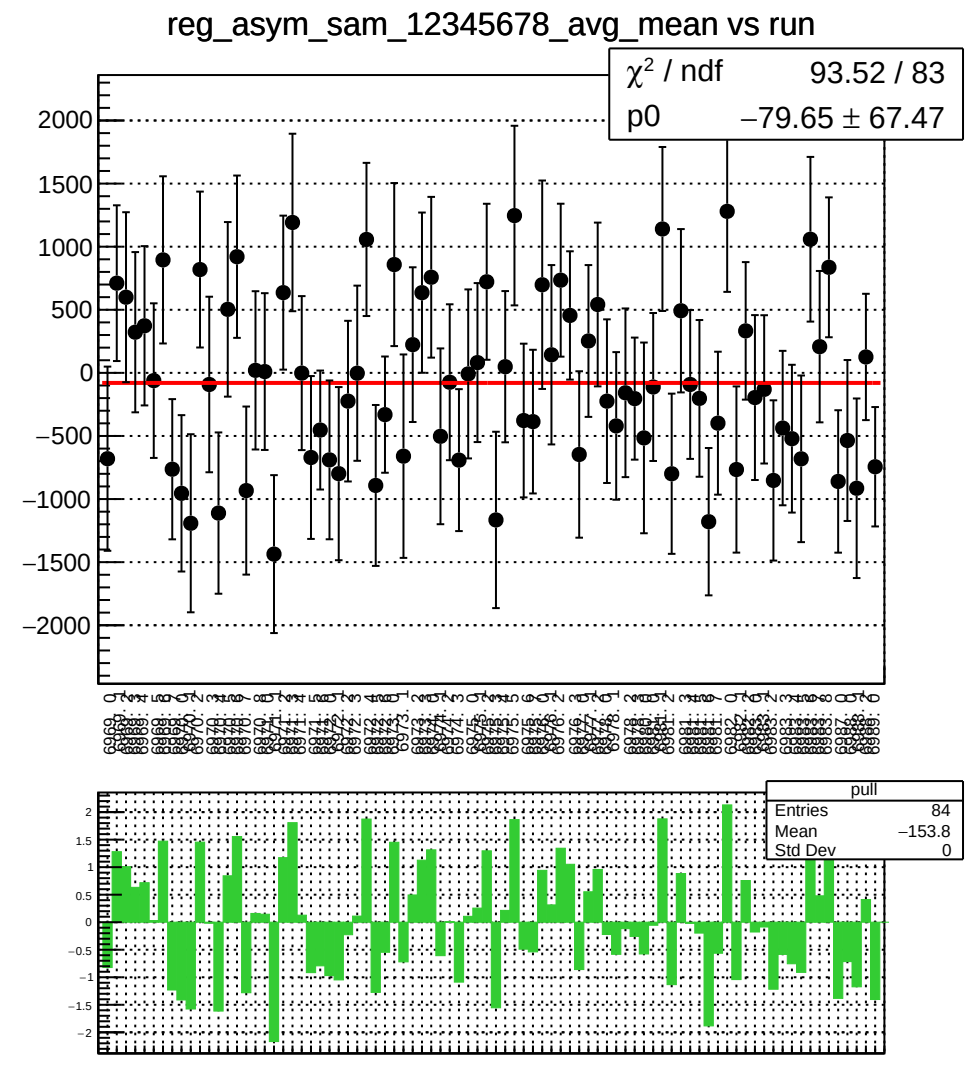

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.7 / 83
p0 −0.02184 ± 0.02152
pull
Entries 84
Mean −181.5
Std Dev 0
pull1D
Entries 84
Mean −0.02291
Std Dev 1.111

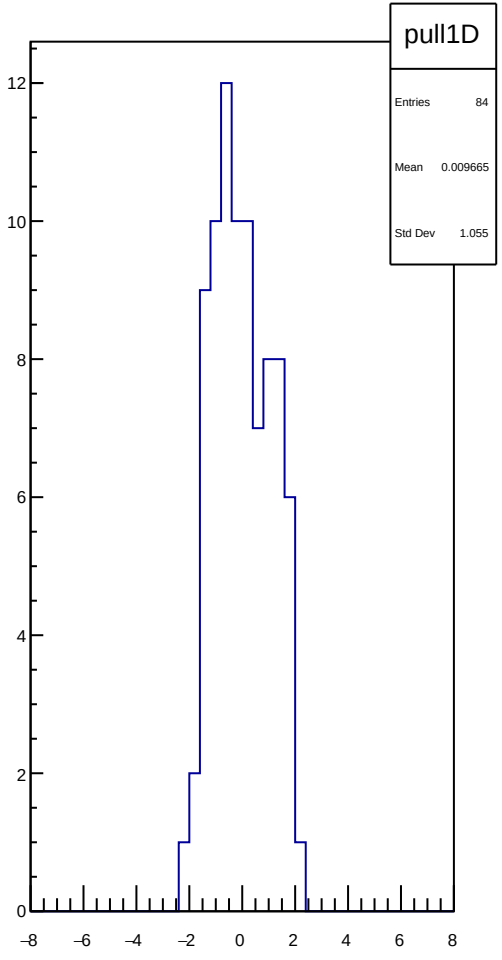

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.298e+04 / 83
p0 19.61 ± 0.01521
26
24
22
20
18
16

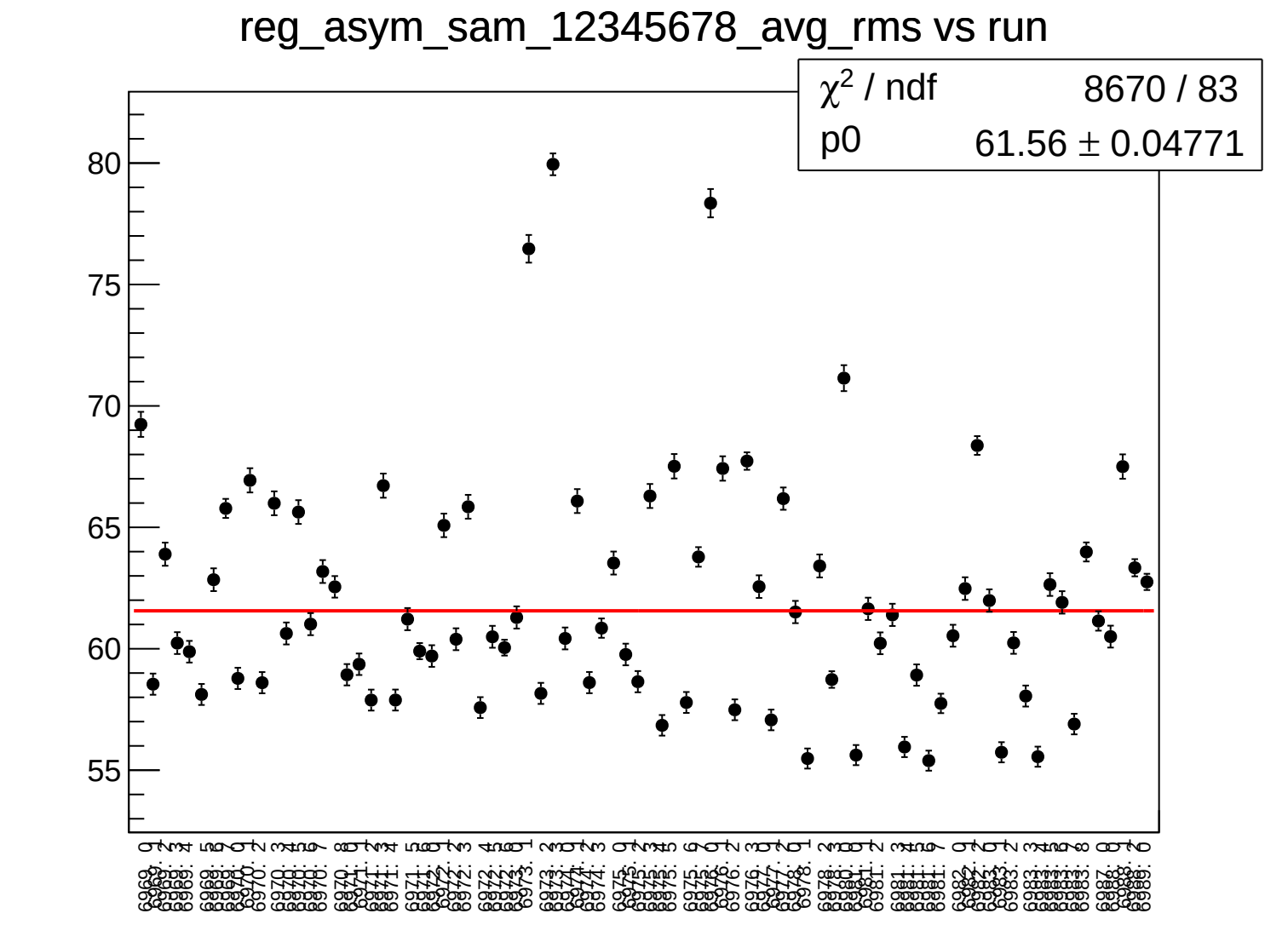

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.38 / 83
p0 1.463e−15 ± 5.319e−15
pull
Entries 84
Mean 67.67
Std Dev 16.93

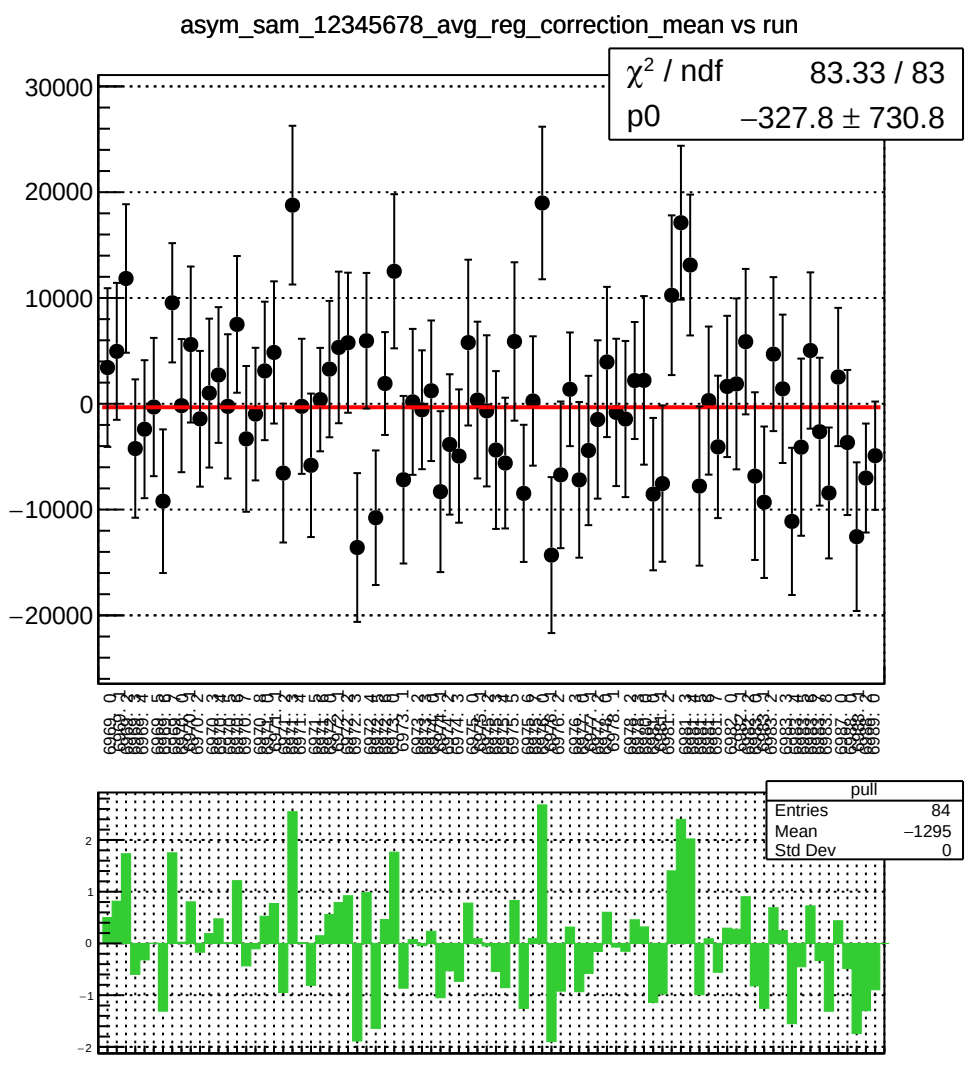

pull1D
Entries 84
Mean 0.108
Std Dev 0.9784

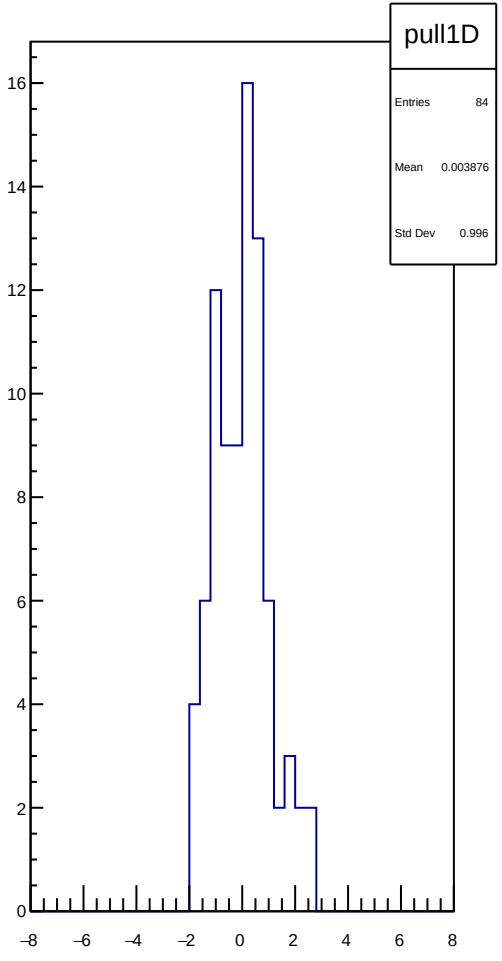

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.199e+05 / 83
p0 3.861e−12 ± 3.761e−15
30
25
20
15
10
5

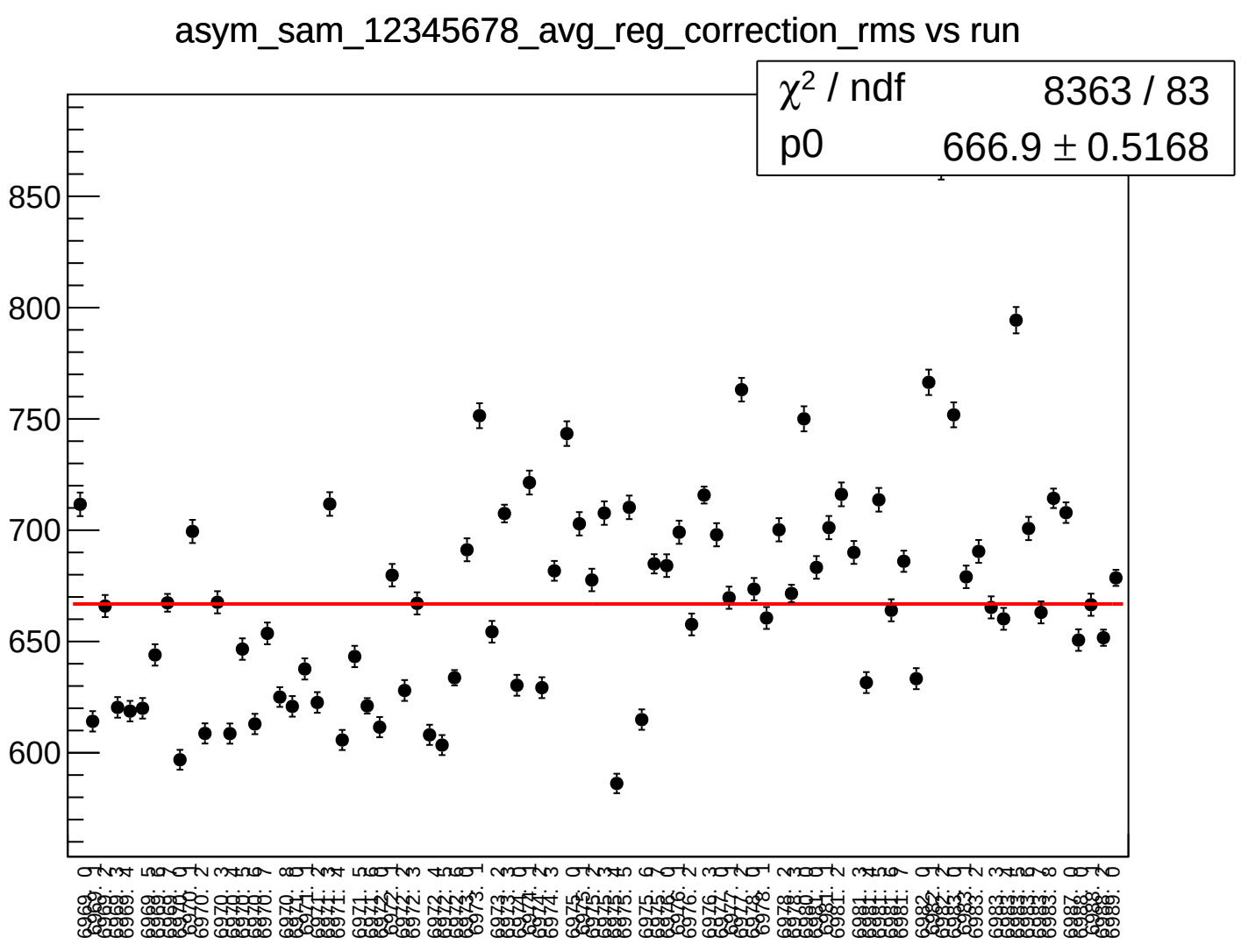

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 93.52 / 83
p0 −79.65 ± 67.47
pull
Entries 84
Mean −153.8
Std Dev 0

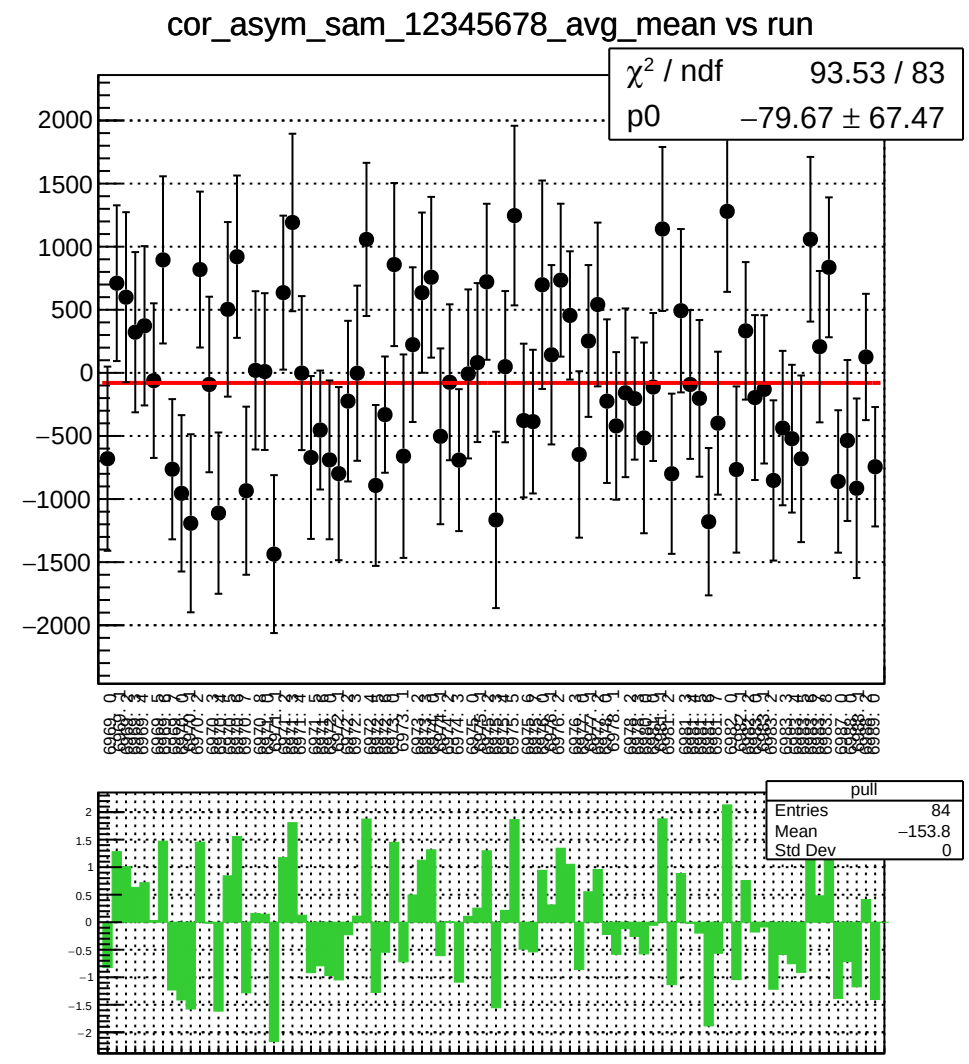

pull1D
Entries 84
Mean 0.009665
Std Dev 1.055

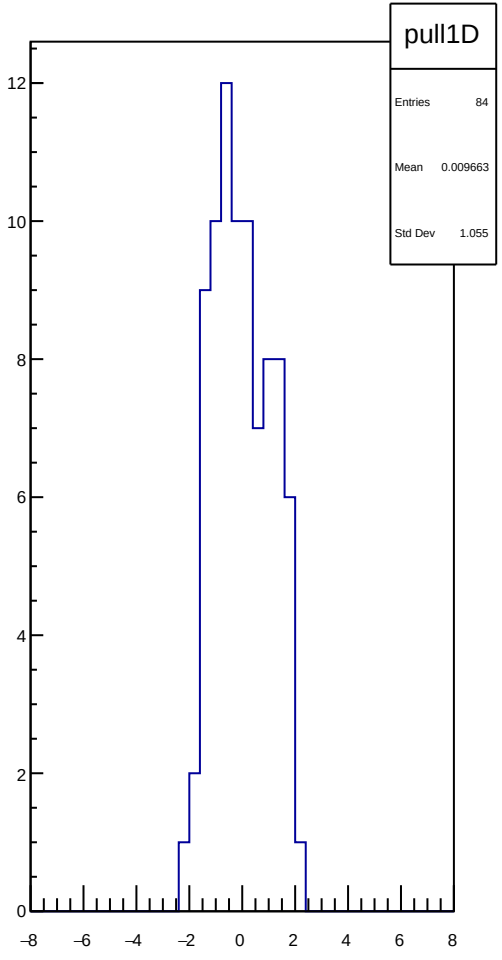

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 8670 / 83
p0 61.56 ± 0.04771
80
75
70
65
60
55

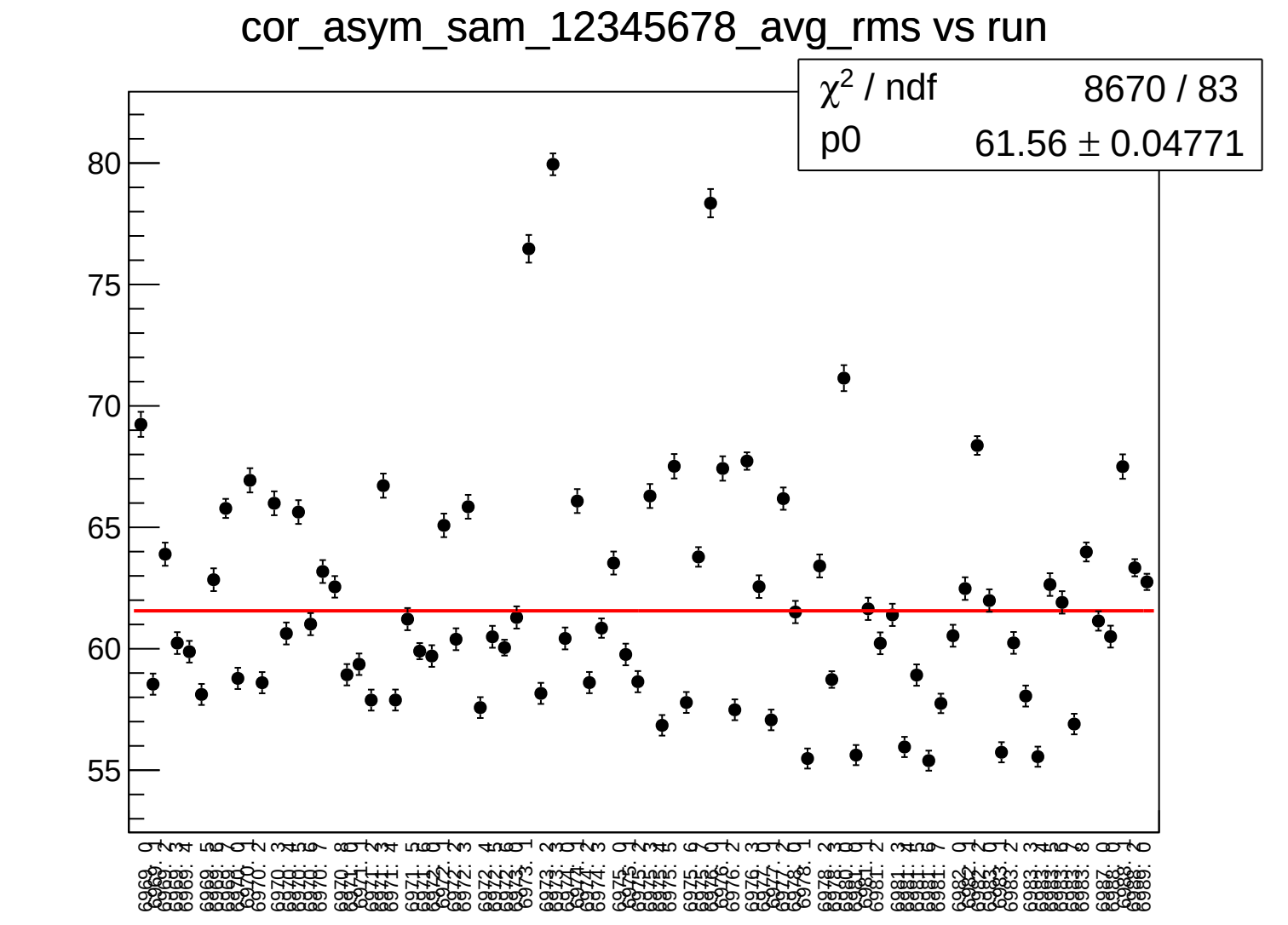

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 83.33 / 83
p0 −327.8 ± 730.8
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −1295
Std Dev 0
2
1
0
−1
−2

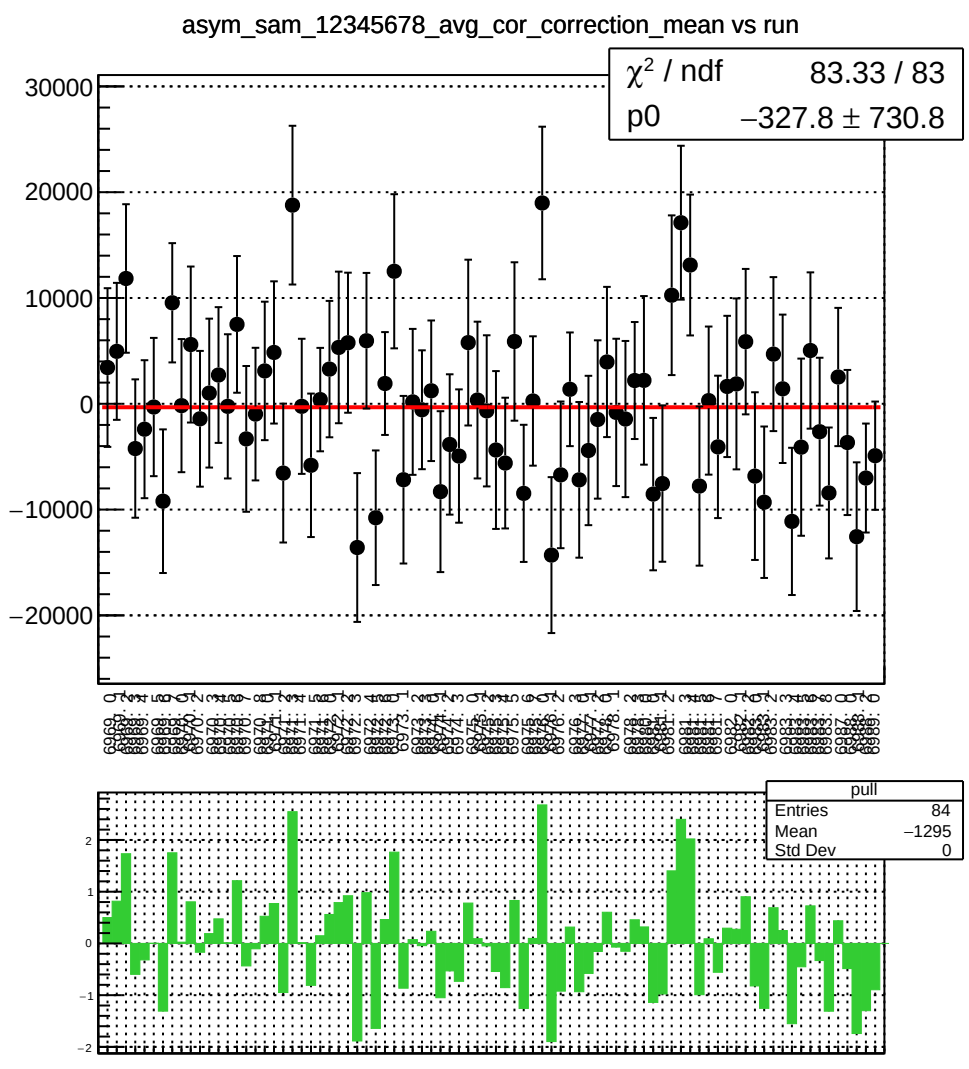

pull1D
Entries 84
Mean 0.003876
Std Dev 0.996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

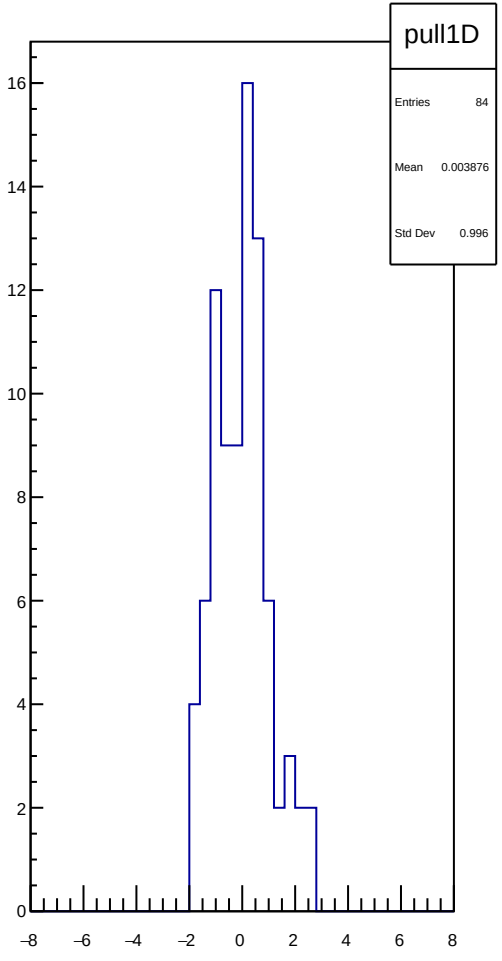

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 8363 / 83
p0 666.9 ± 0.5168
850
800
750
700
650
600

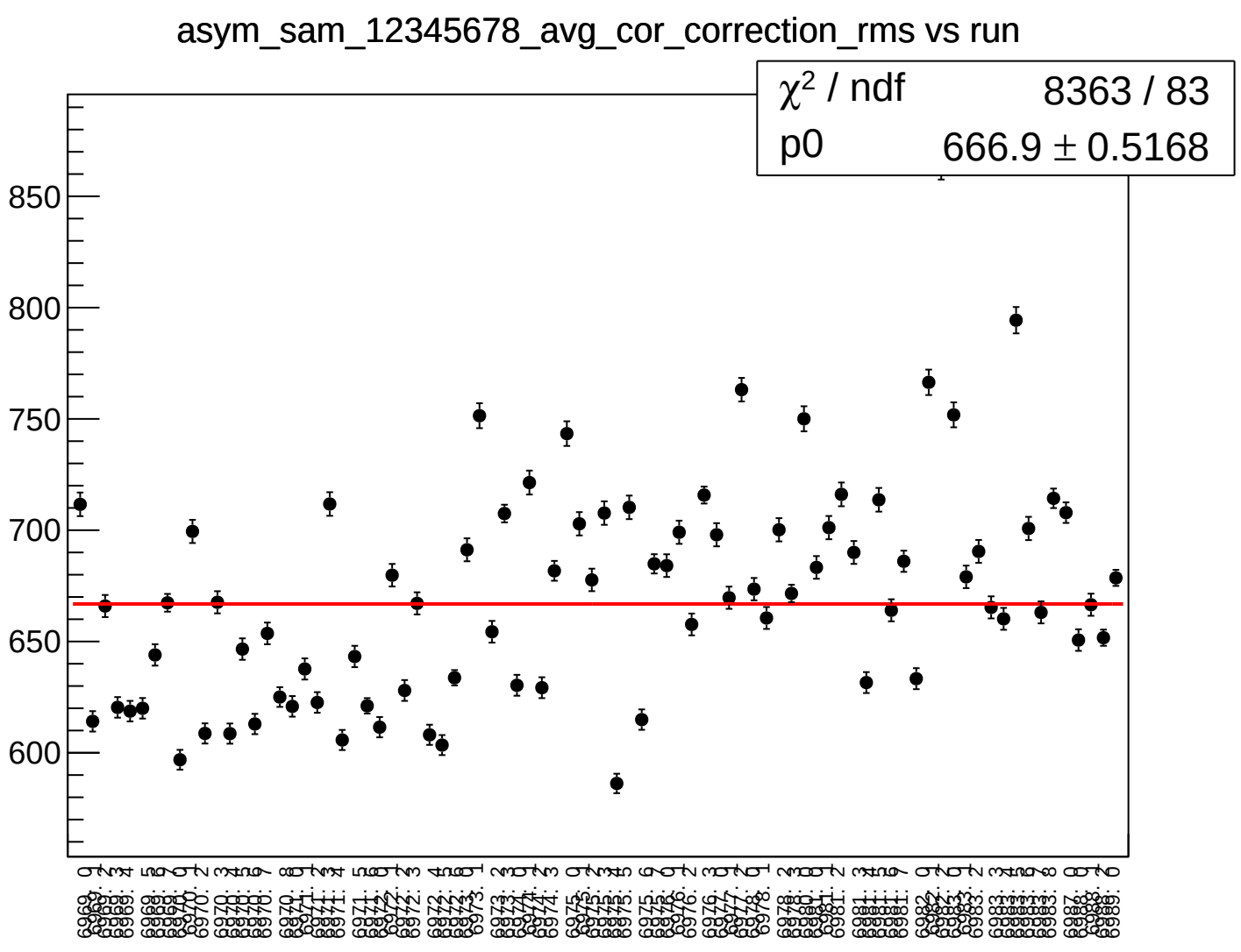

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 93.53 / 83
p0 −79.67 ± 67.47
pull
Entries 84
Mean −153.8
Std Dev 0

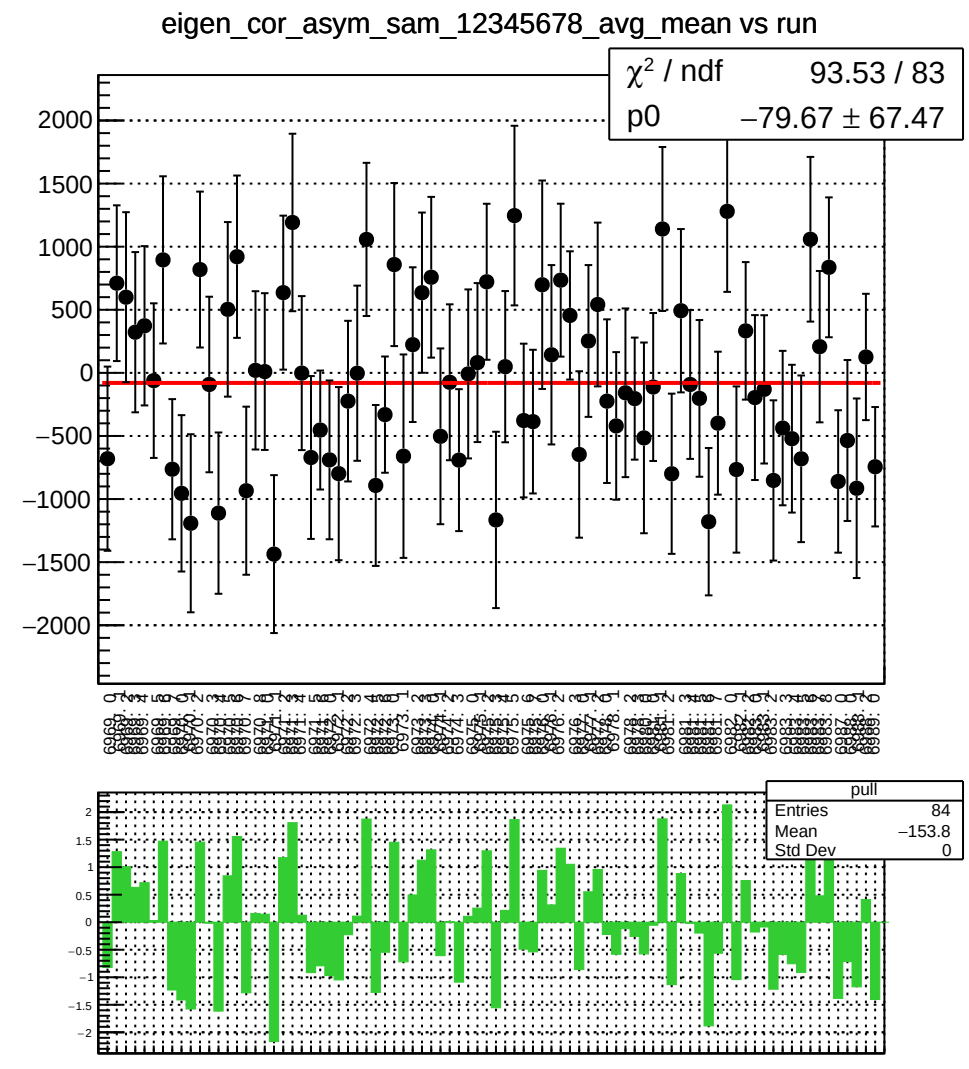

pull1D
Entries 84
Mean 0.009663
Std Dev 1.055

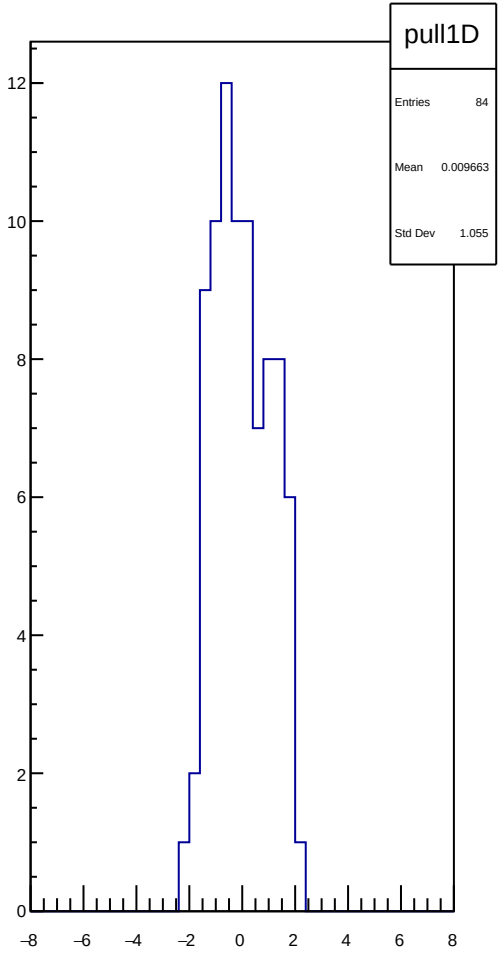

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 8670 / 83
p0 61.56 ± 0.04771
80
75
70
65
60
55

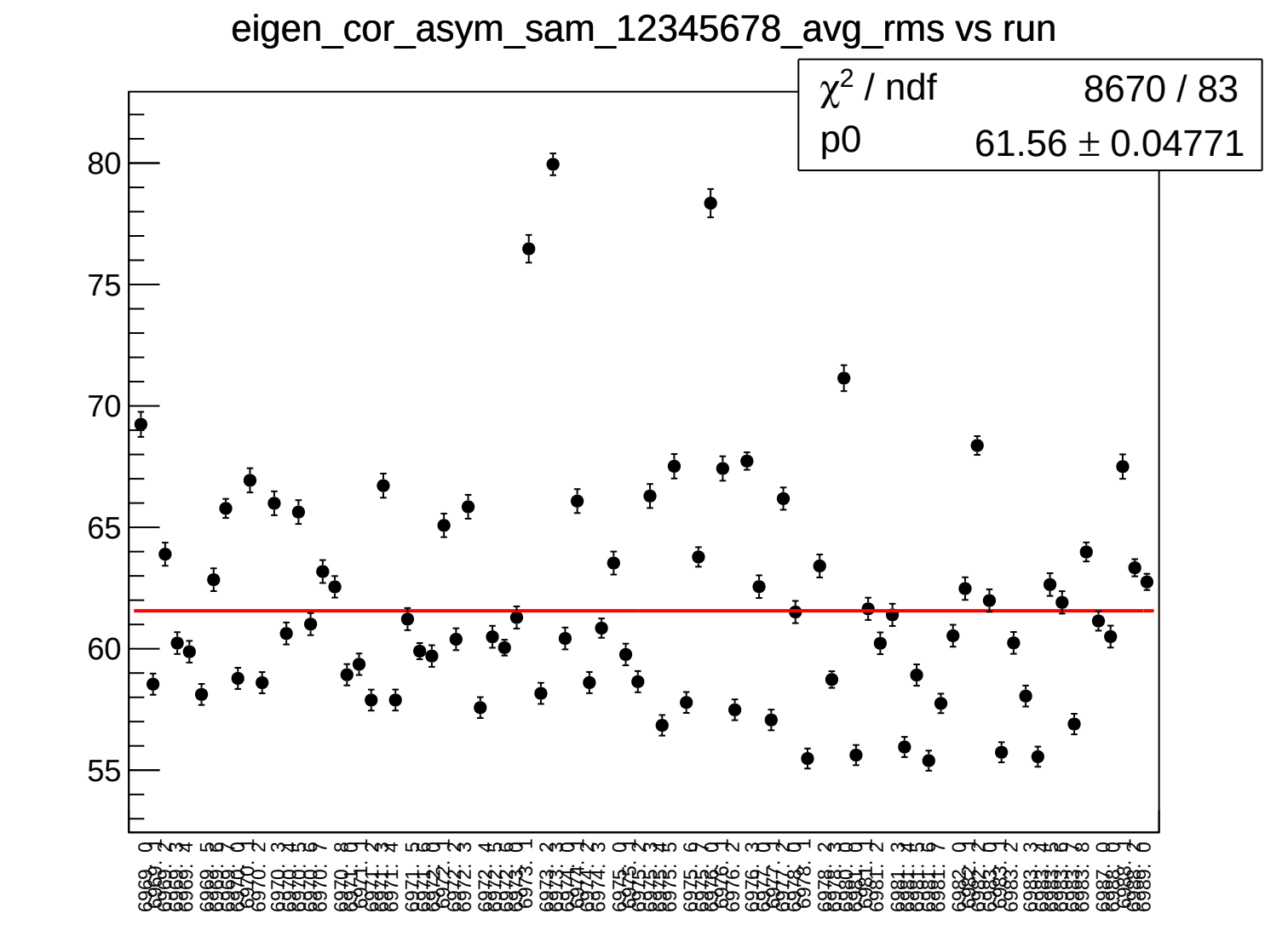

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 83.33 / 83
p0 −327.8 ± 730.8
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −1295
Std Dev 0
2
1
0
−1
−2

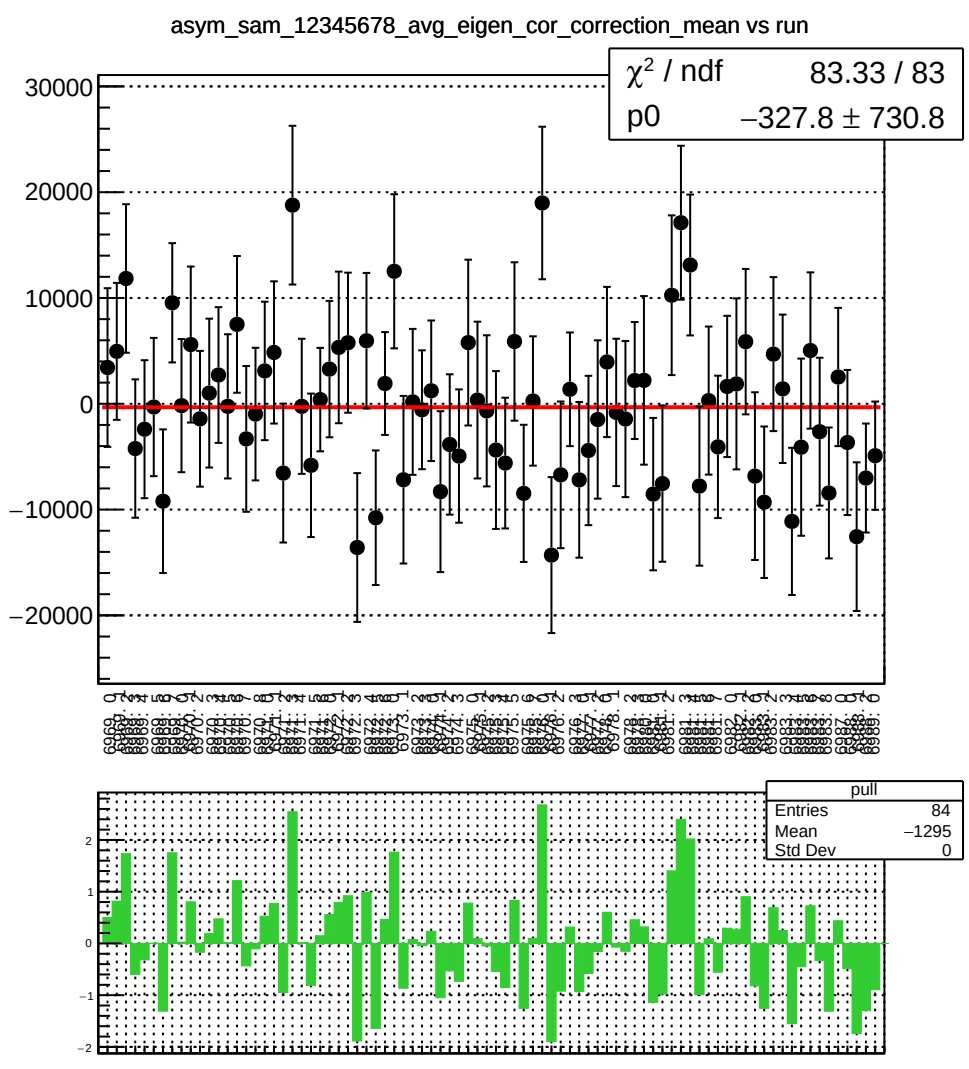

pull1D
Entries 84
Mean 0.003876
Std Dev 0.996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

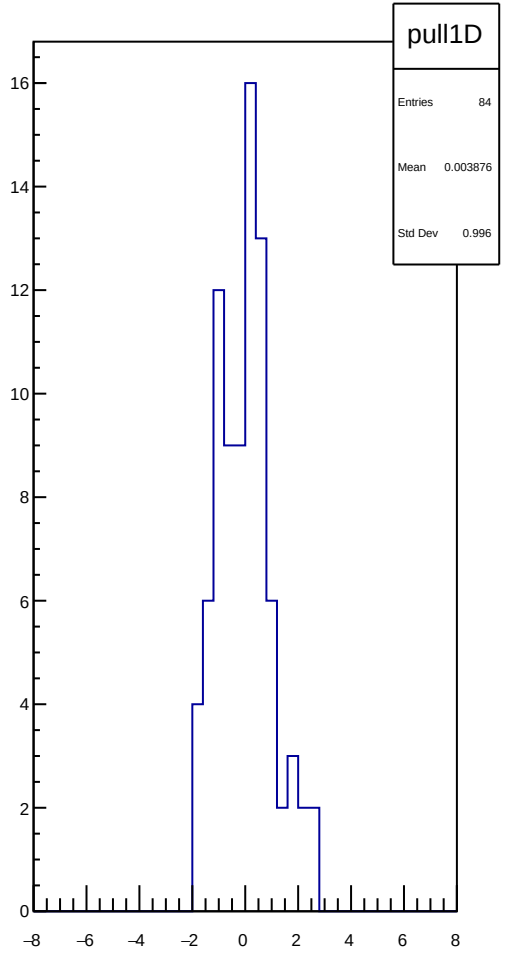

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 8363 / 83
p0 666.9 ± 0.5168
850
800
750
700
650
600


eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 93.53 / 83
p0 −79.67 ± 67.47
pull
Entries 84
Mean −153.8
Std Dev 0


pull1D
Entries 84
Mean 0.009663
Std Dev 1.055


eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 8670 / 83
p0 61.56 ± 0.04771
80
75
70
65
60
55


asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.33 / 83
p0 −327.8 ± 730.8
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −1295
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.003876
Std Dev 0.996
16
14
12
10
8
6
4
2
0
−8
−6
−4
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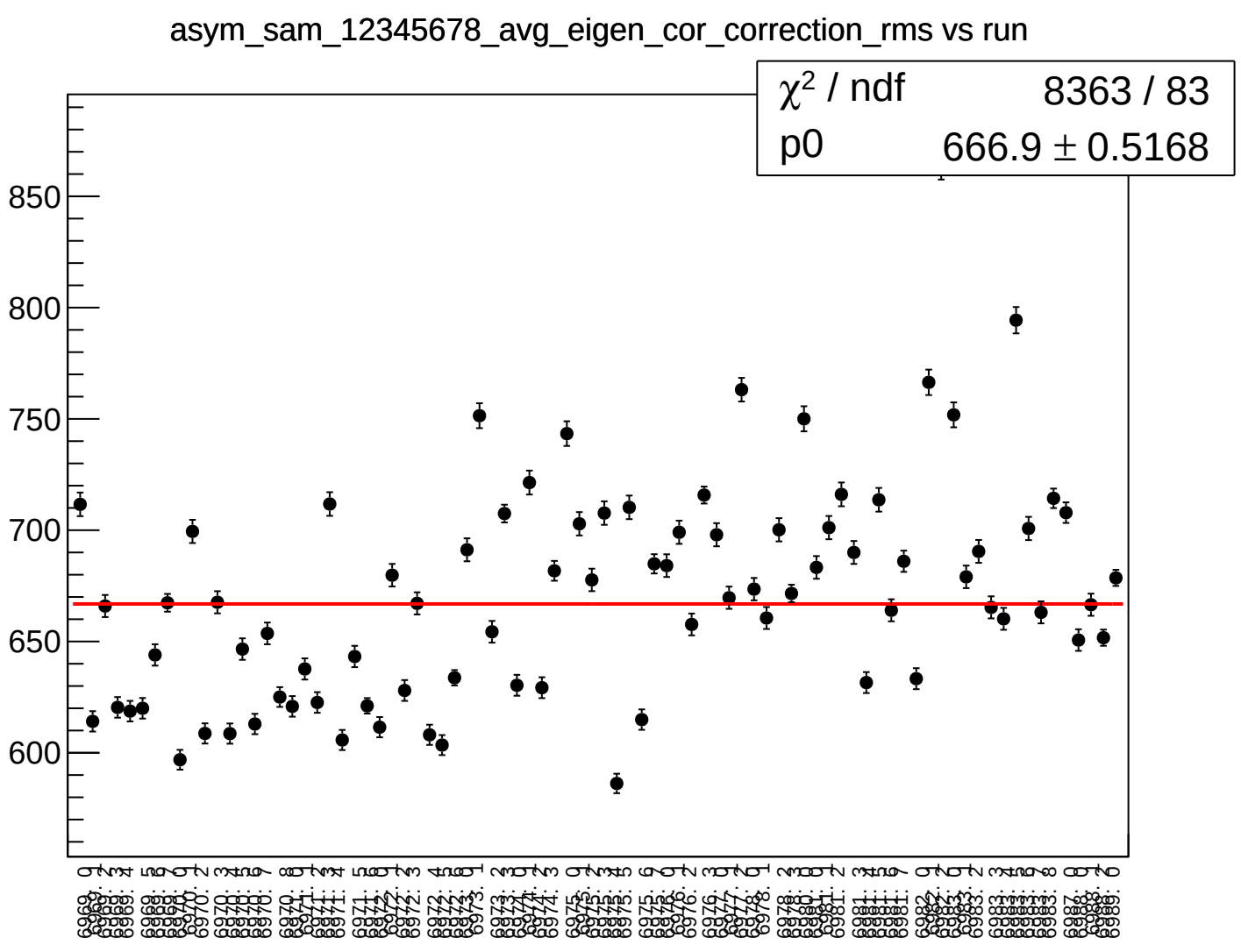
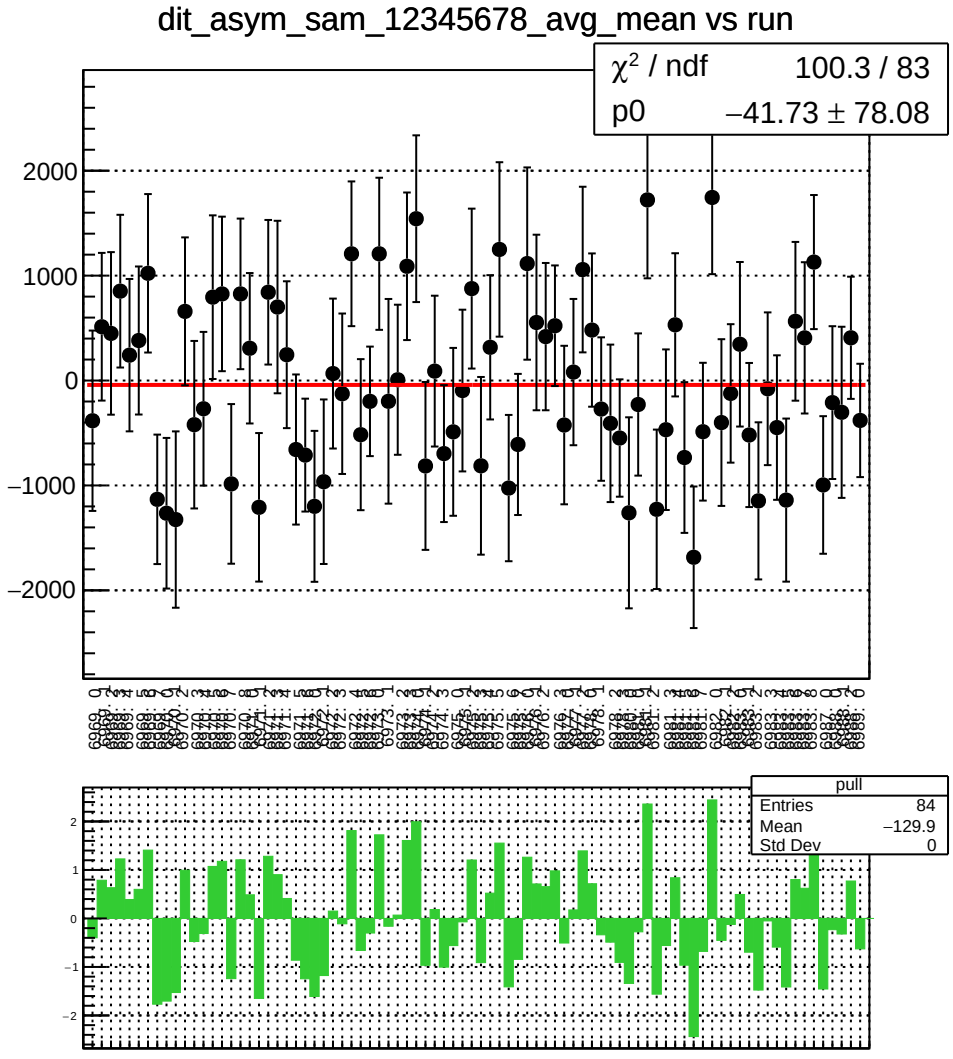
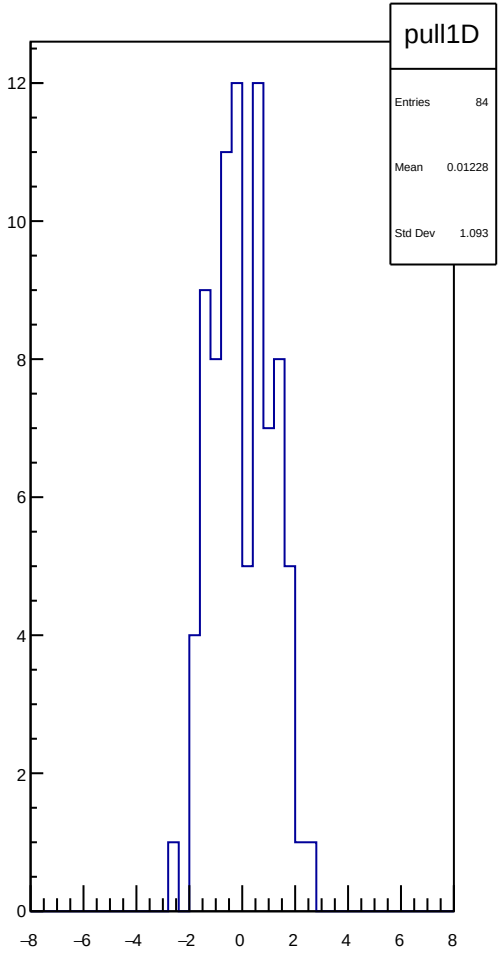
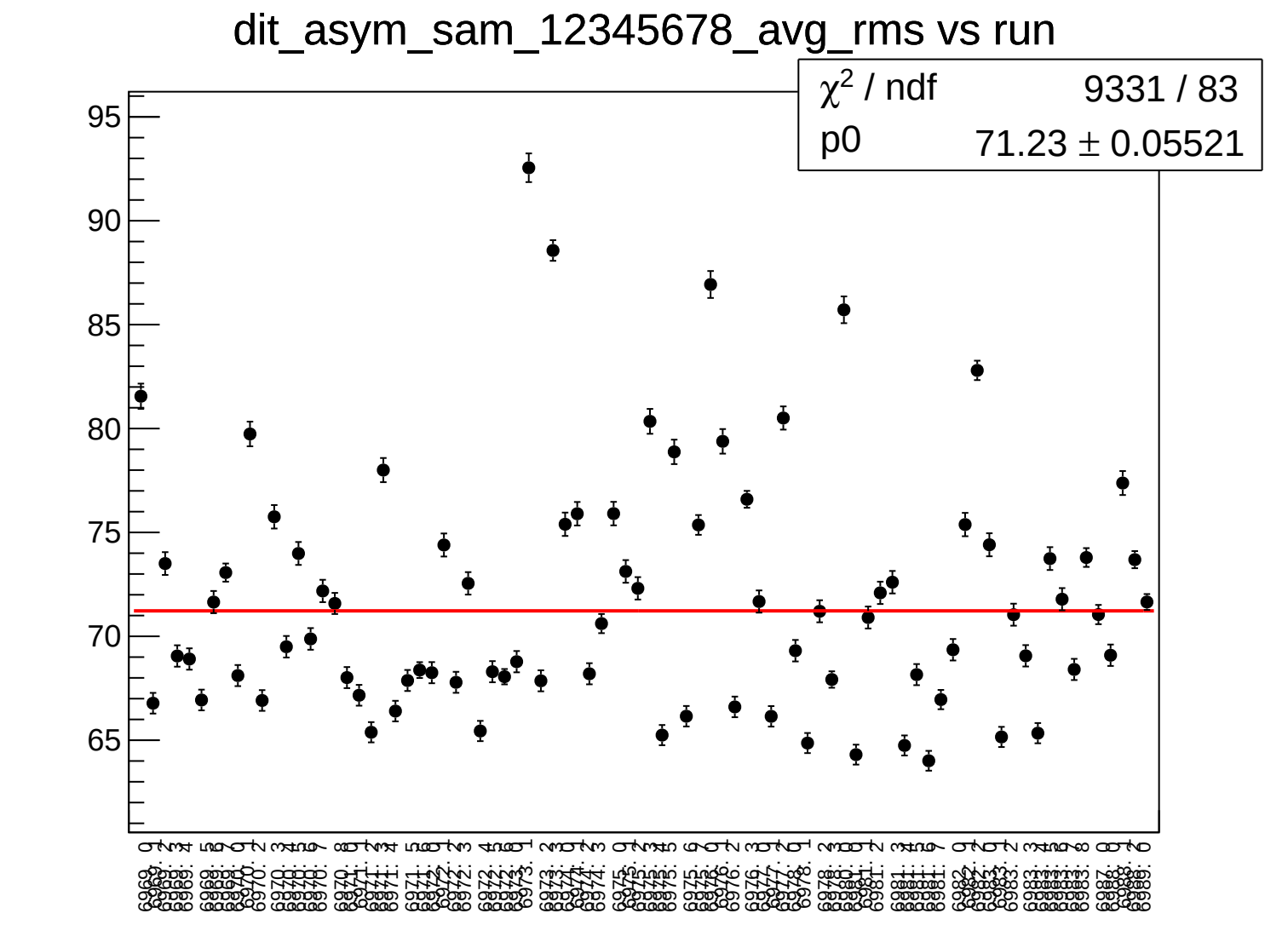
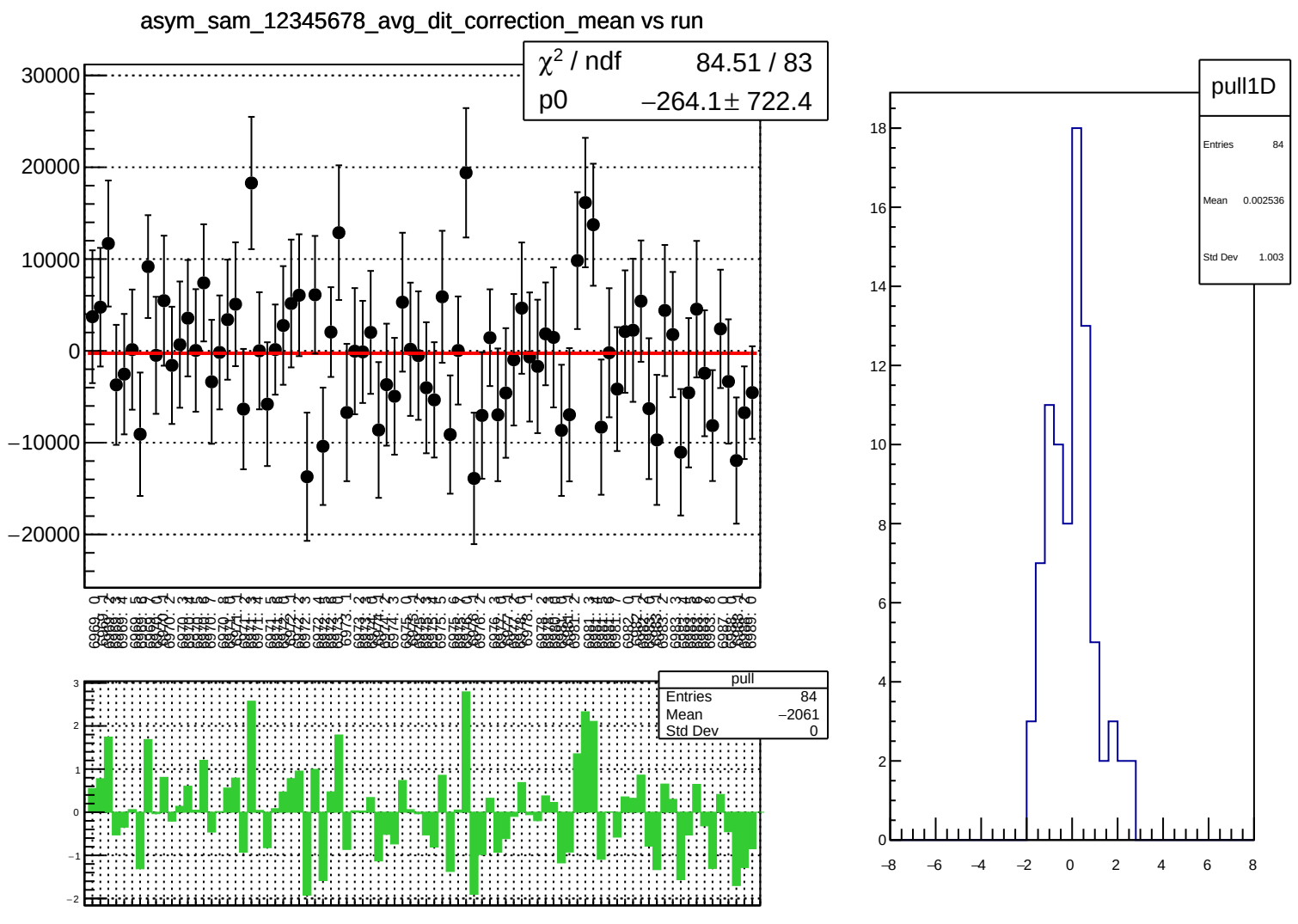
2
4
6
8

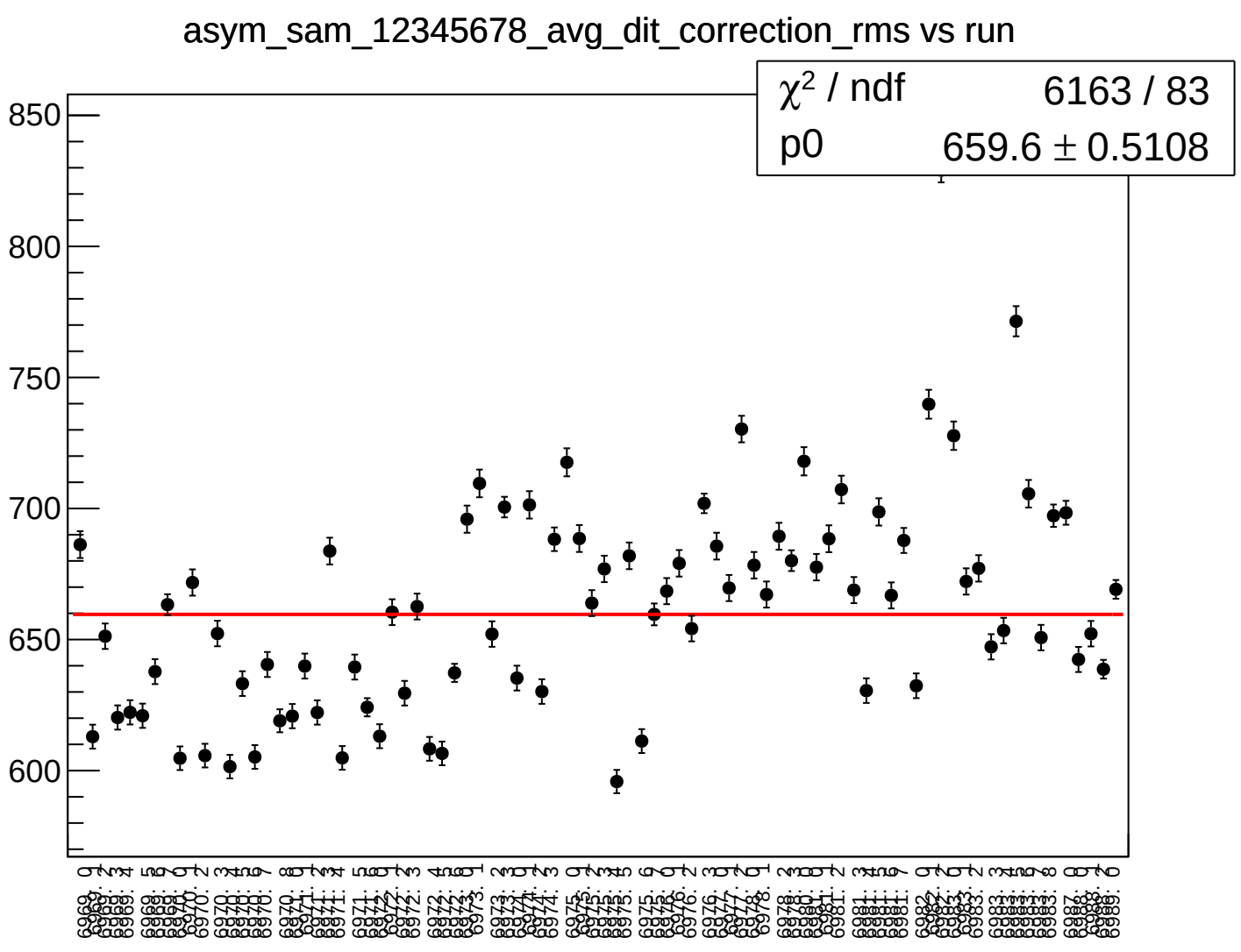

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 8363 / 83
p0 666.9 ± 0.5168
850
800
750
700
650
600

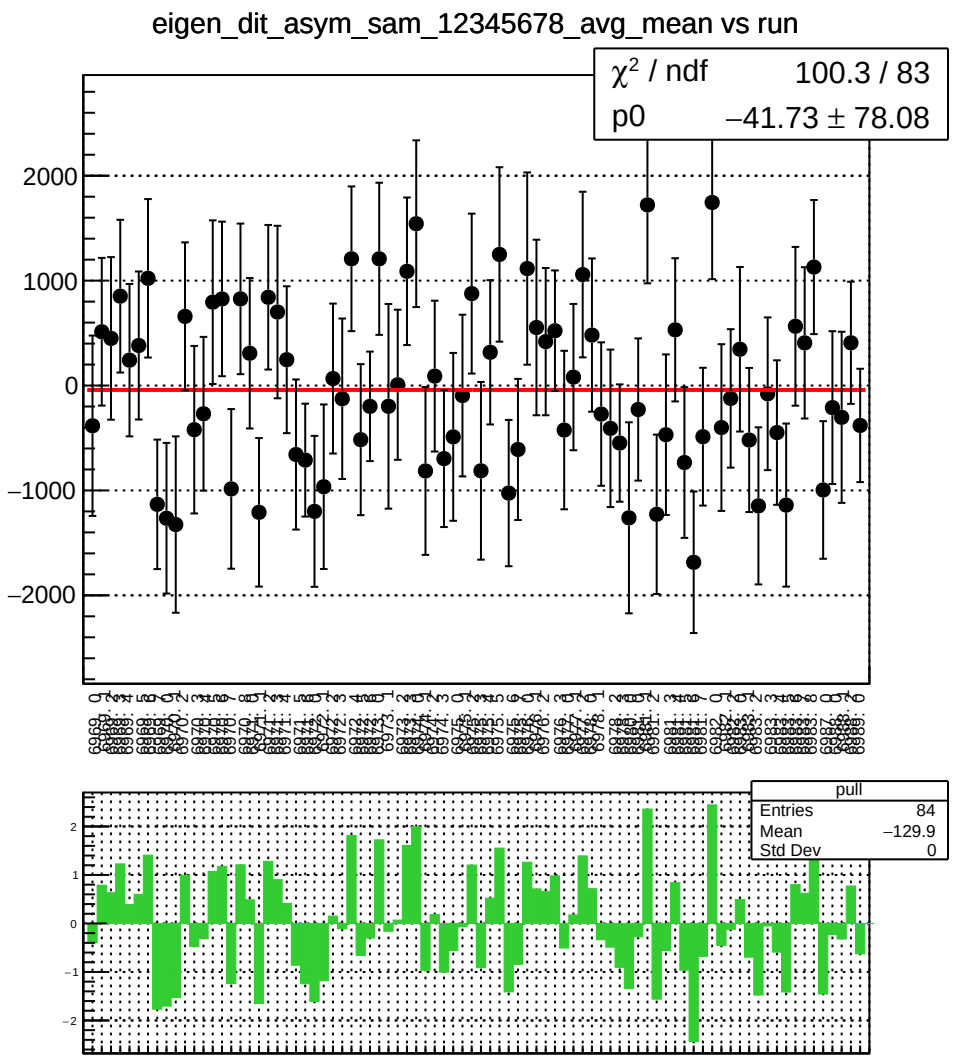

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 100.3 / 83
p0 −41.73 ± 78.08
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −129.9
Std Dev 0
2
1
0
−1
−2

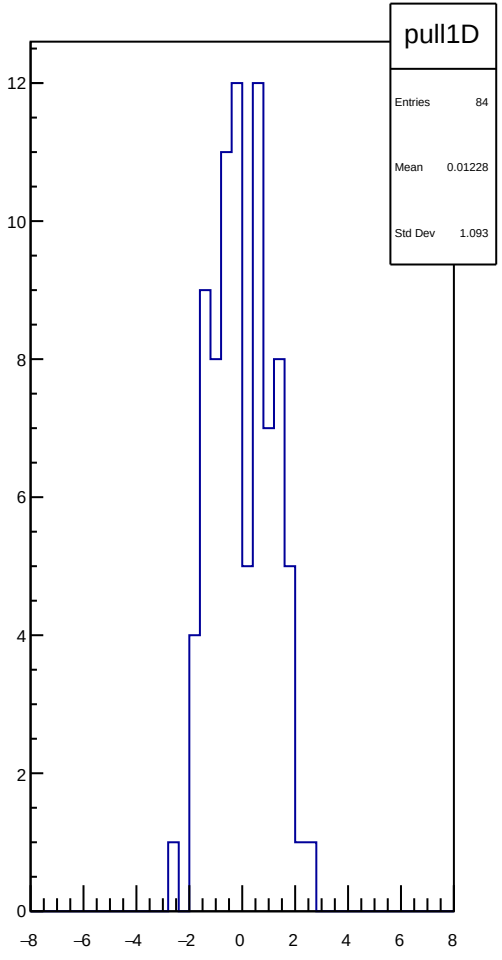

pull1D
Entries 84
Mean 0.01228
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

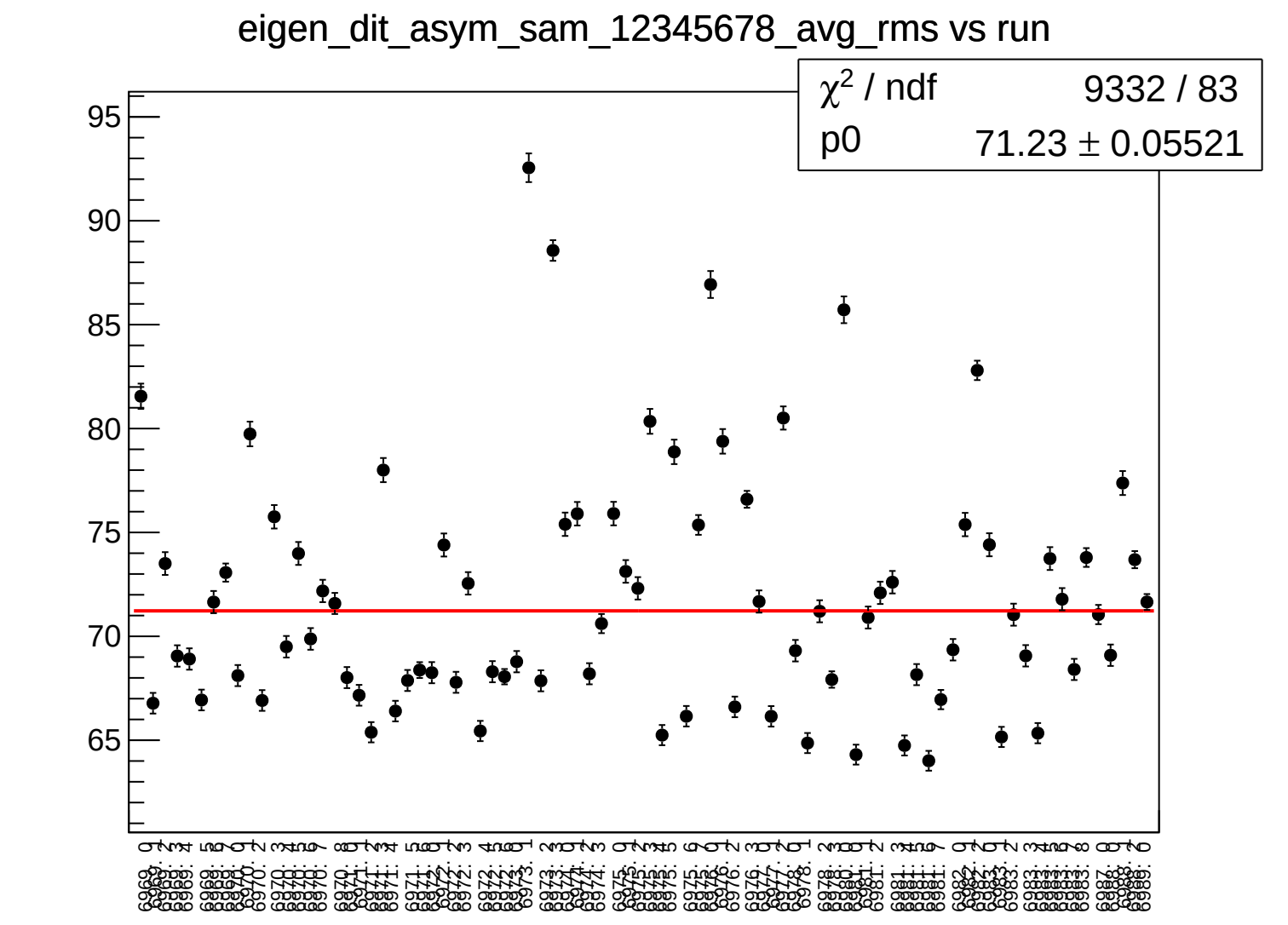

dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 9331 / 83
p0 71.23 ± 0.05521
95
90
85
80
75
70
65

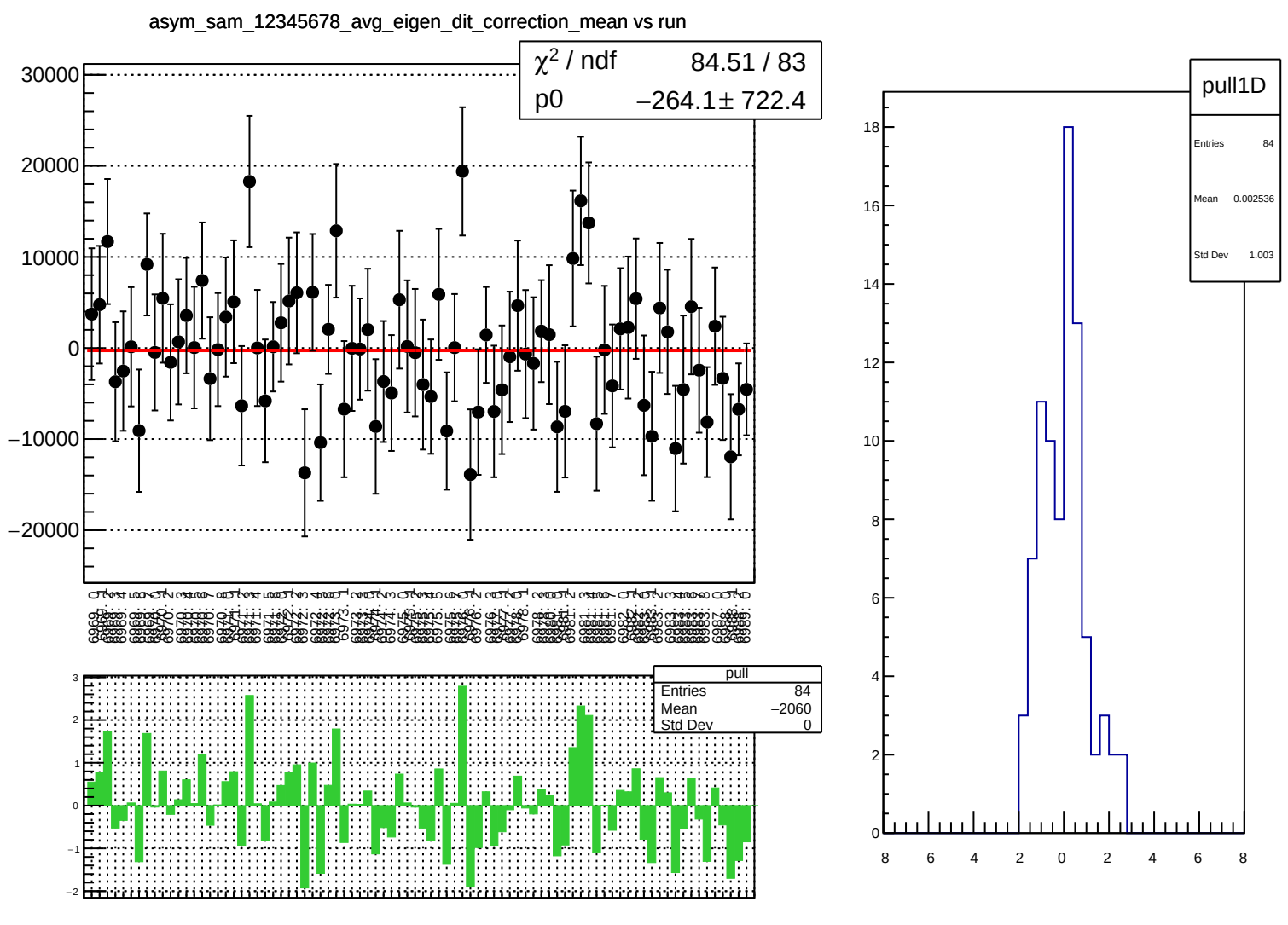

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 84.51 / 83
p0 −264.1± 722.4
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −2061
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.002536
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

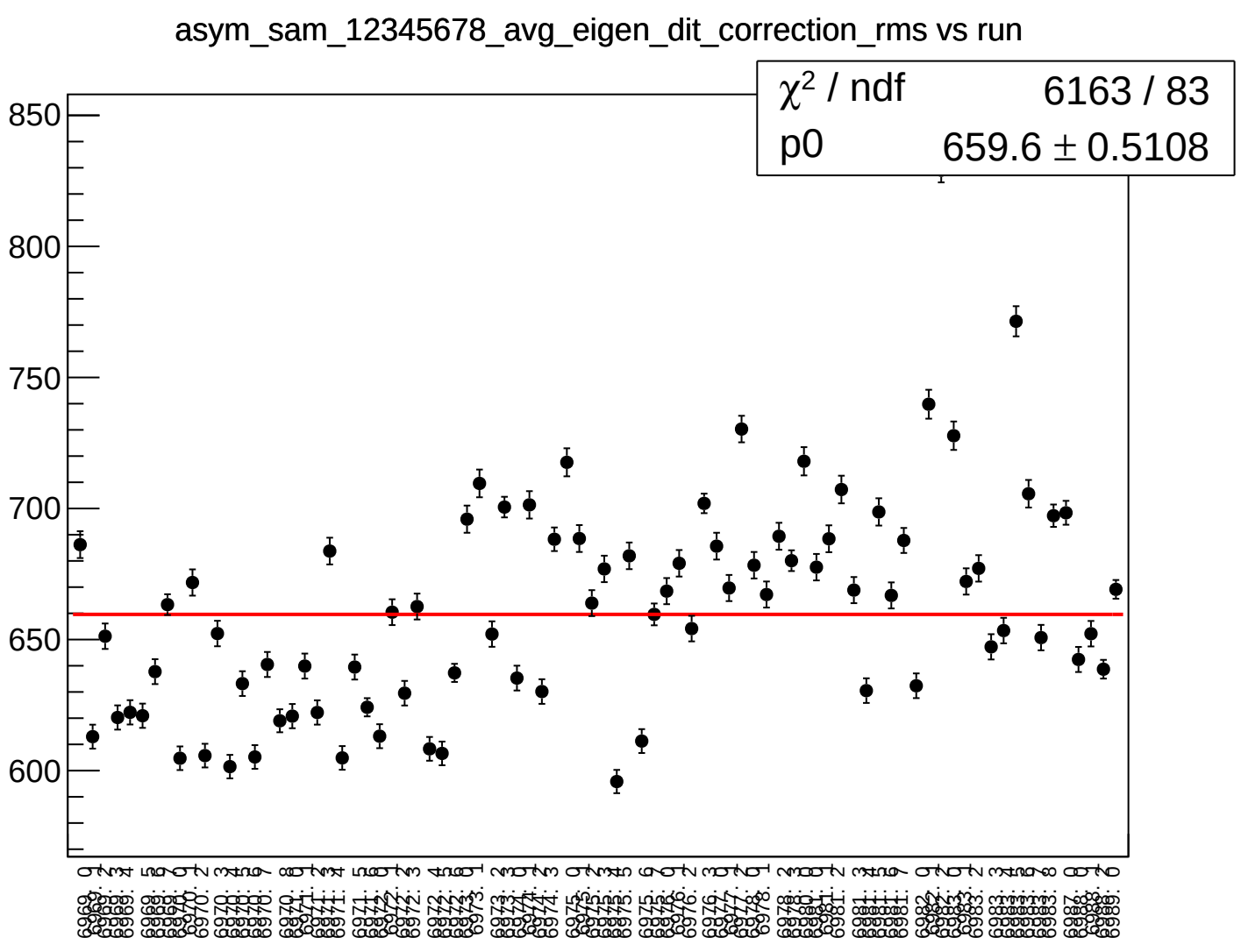

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 6163 / 83
p0 659.6 ± 0.5108
850
800
750
700
650
600

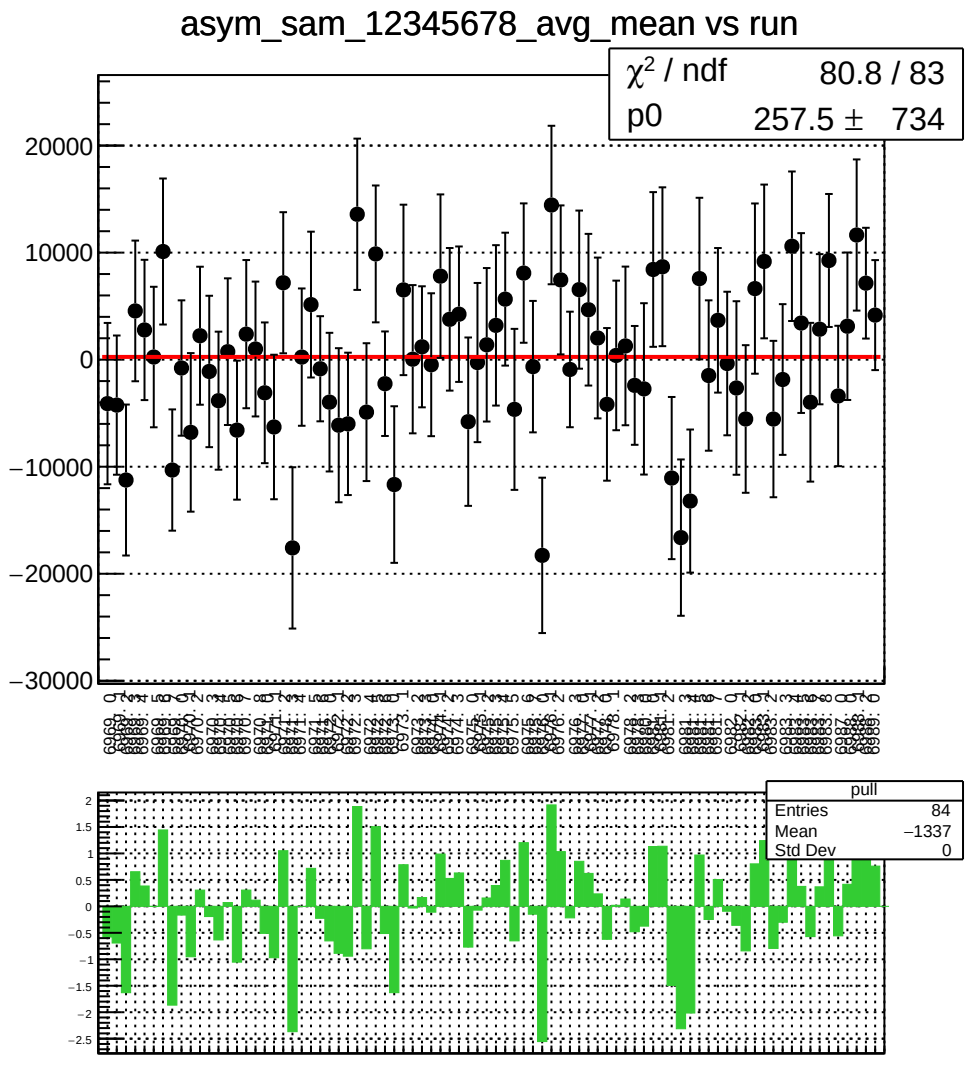

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 100.3 / 83
p0 −41.73 ± 78.08
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −129.9
Std Dev 0
2
1
0
−1
−2

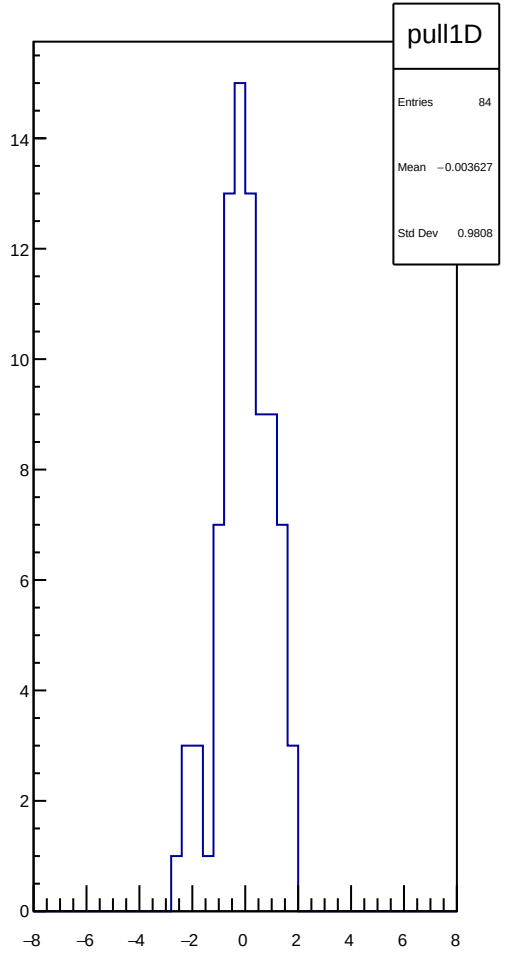

pull1D
Entries 84
Mean 0.01228
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

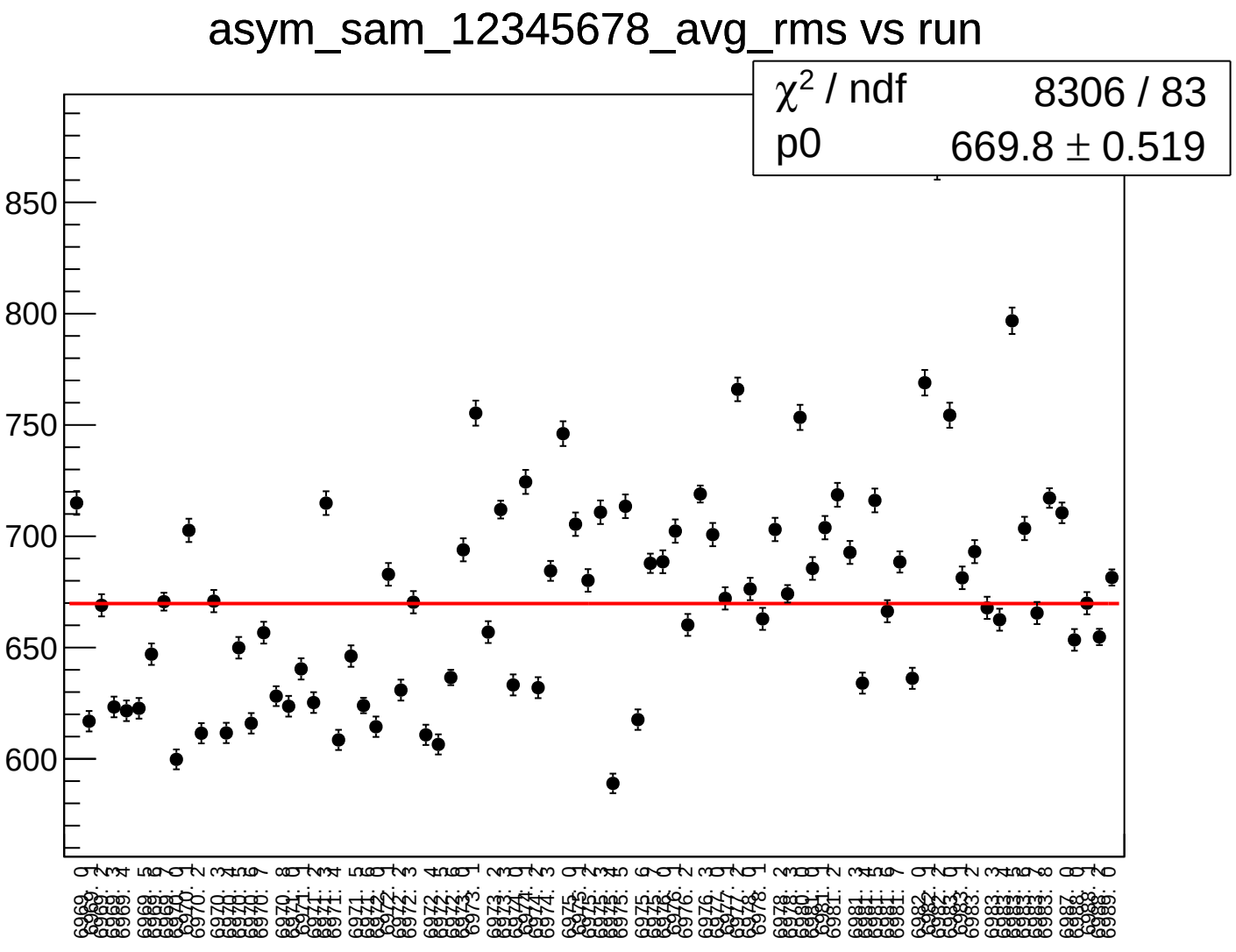

eigen_dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 9332 / 83
p0 71.23 ± 0.05521
95
90
85
80
75
70
65

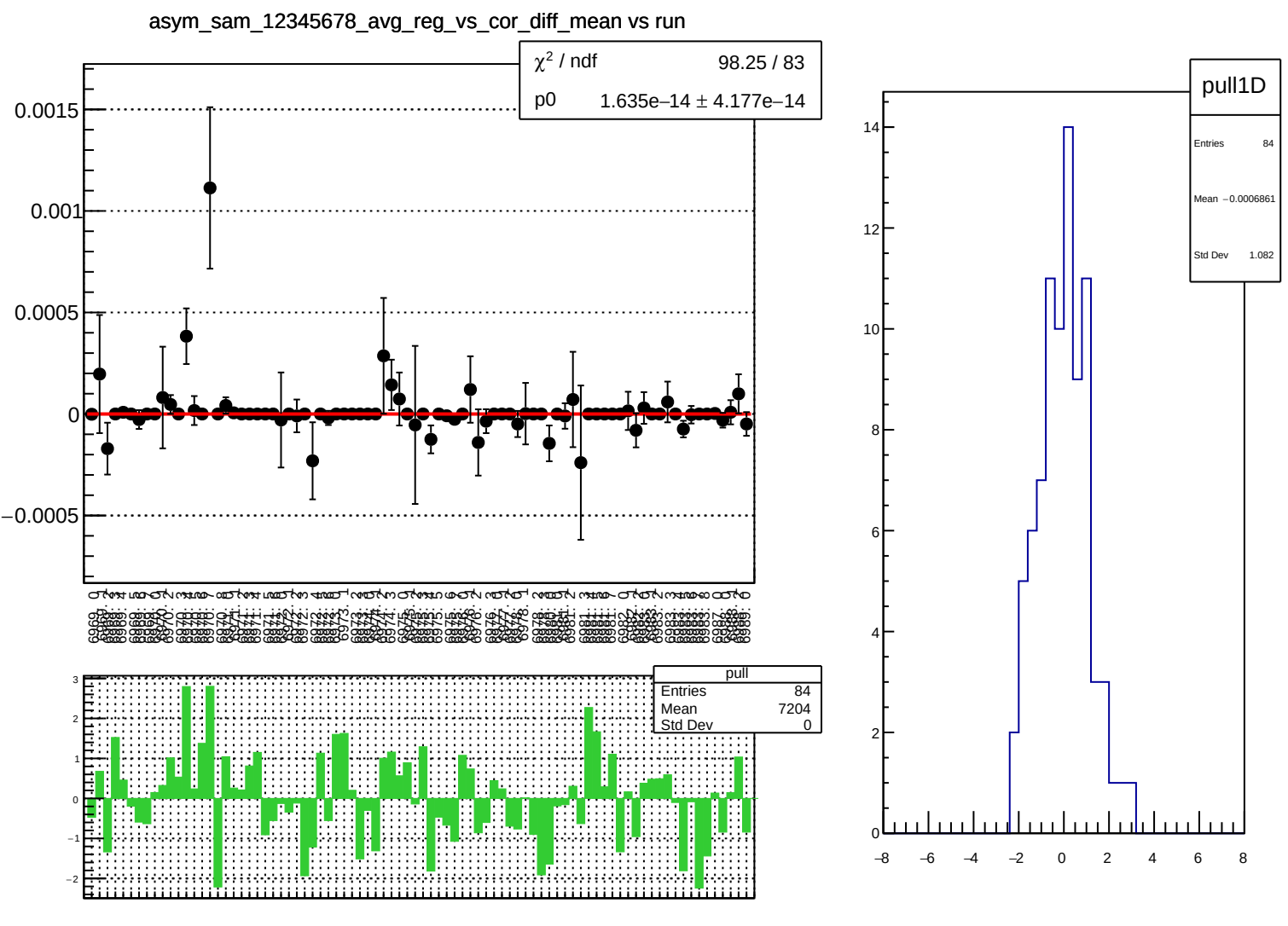

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.51 / 83
p0 −264.1± 722.4
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −2060
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.002536
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

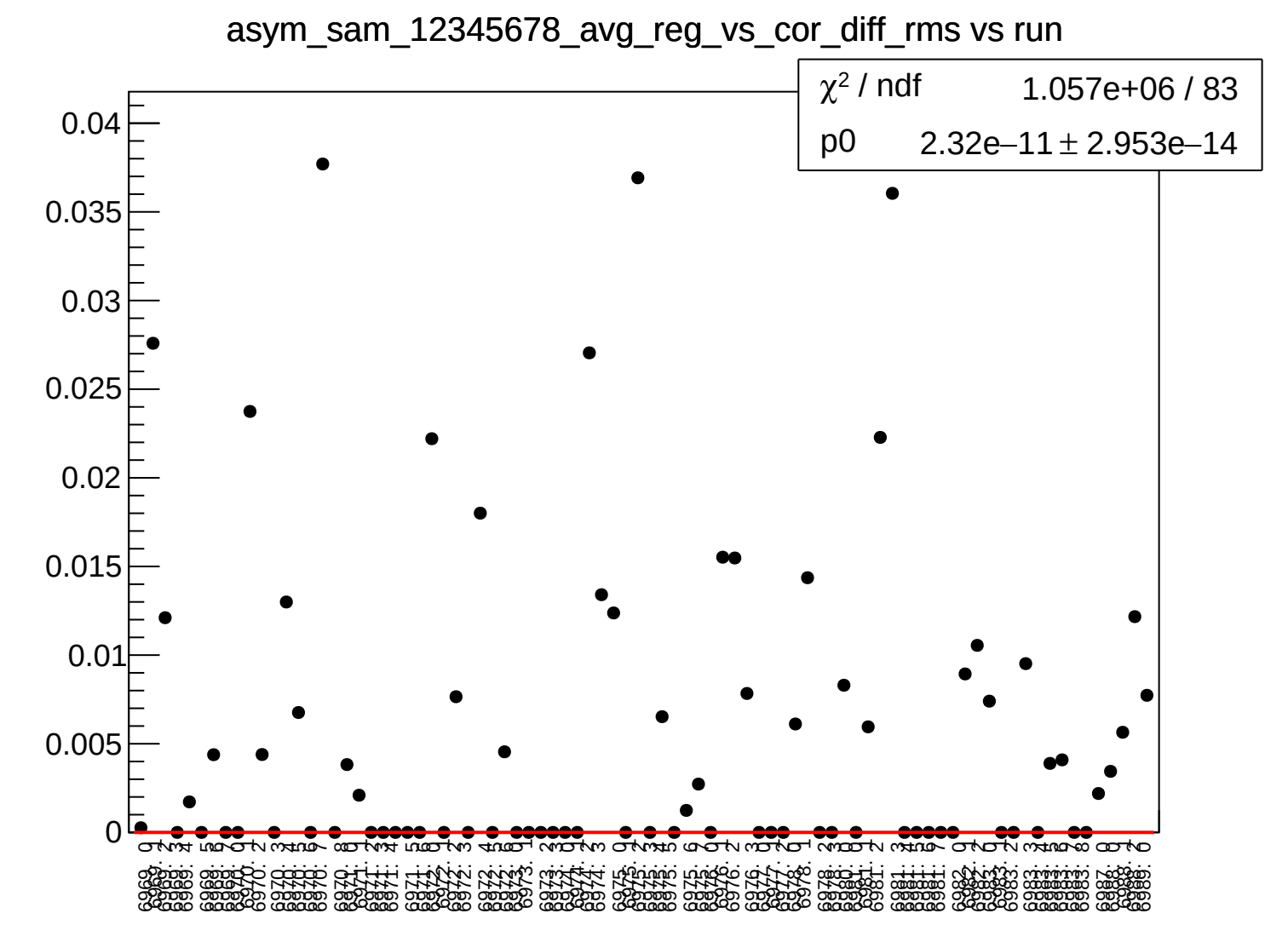

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 6163 / 83
p0 659.6 ± 0.5108
850
800
750
700
650
600

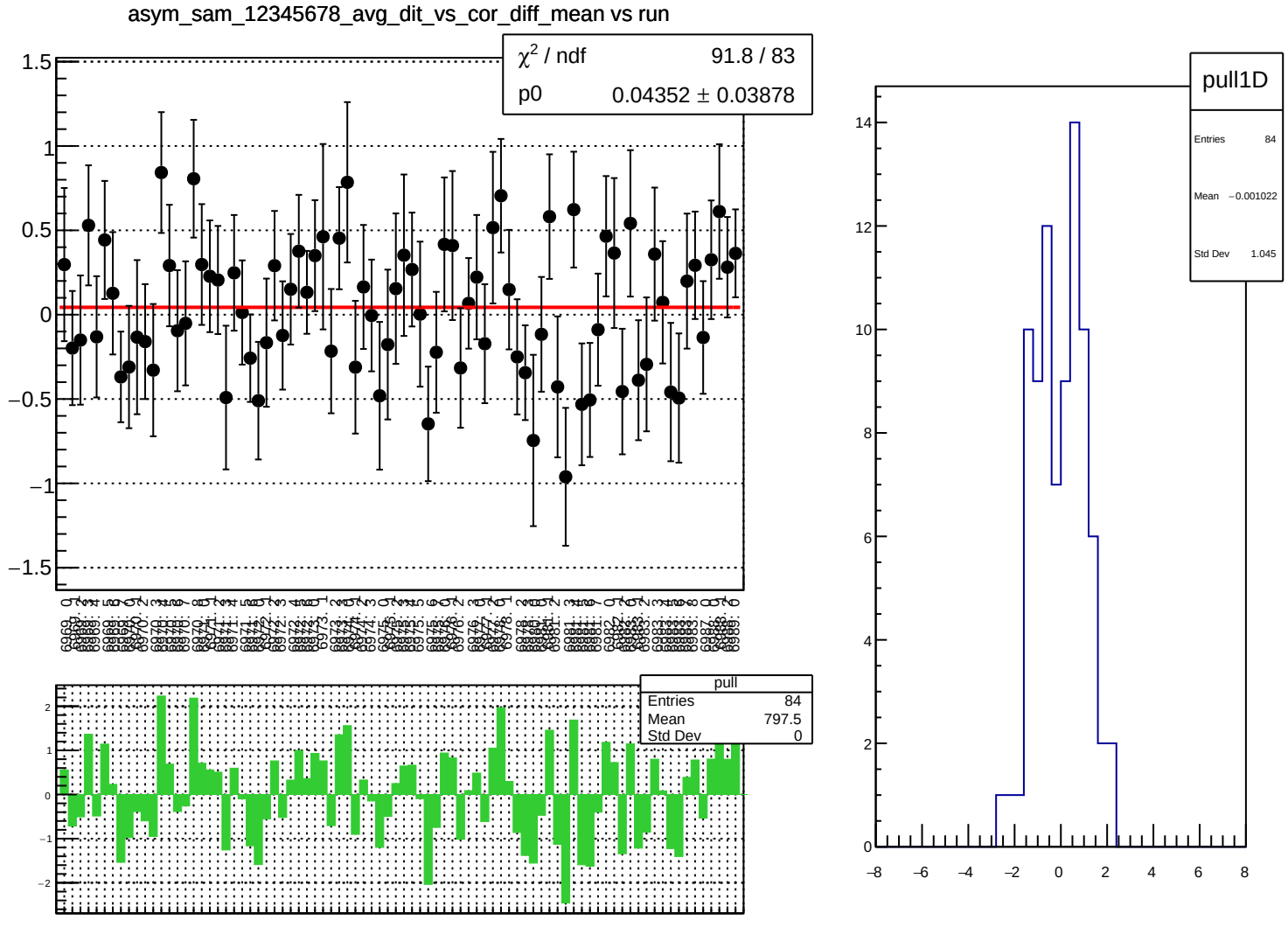

asym_sam_12345678_avg_mean vs run
χ² / ndf 80.8 / 83
p0 257.5 ± 734
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −1337
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

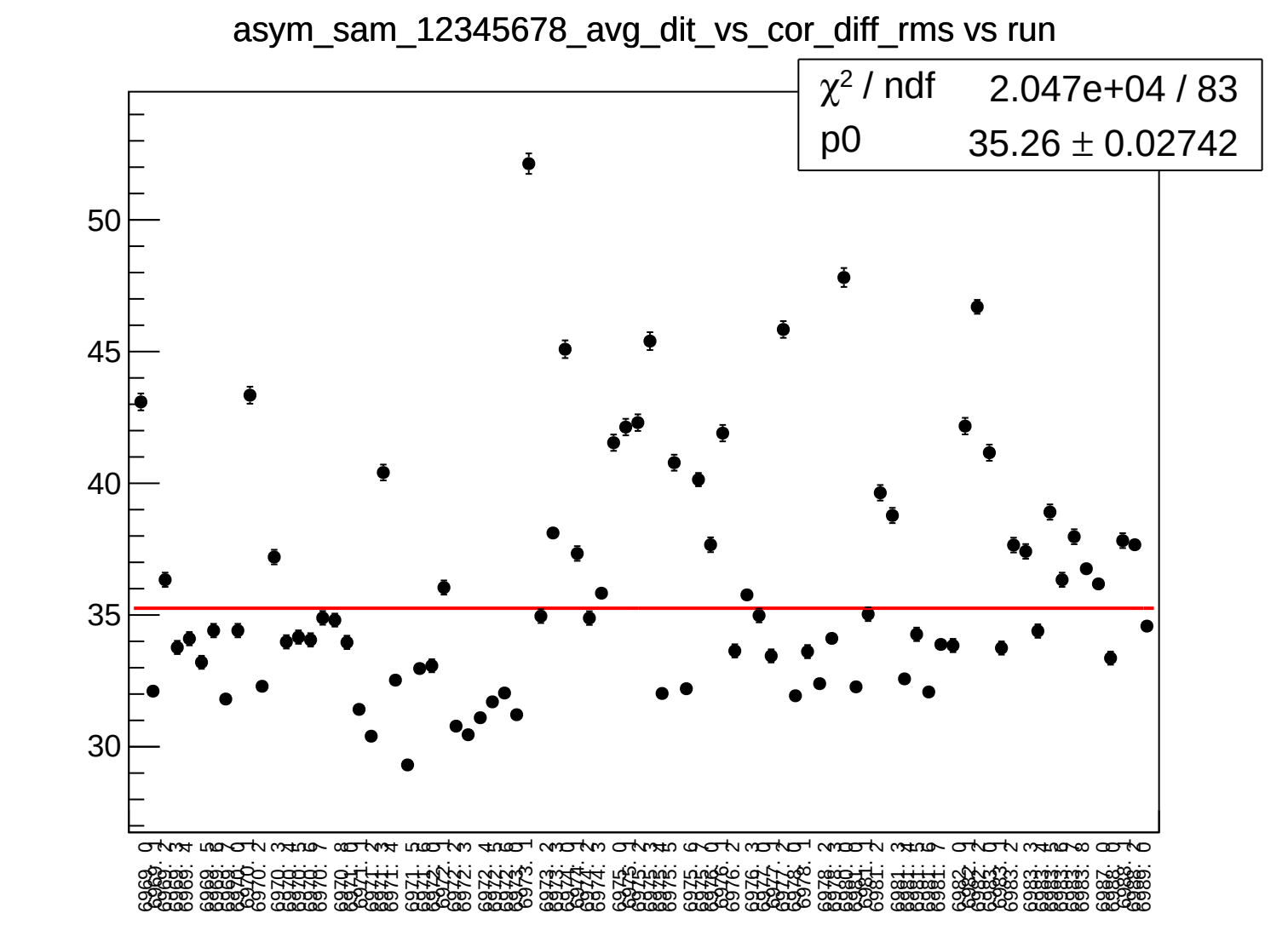

pull1D
Entries 84
Mean −0.003627
Std Dev 0.9808
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

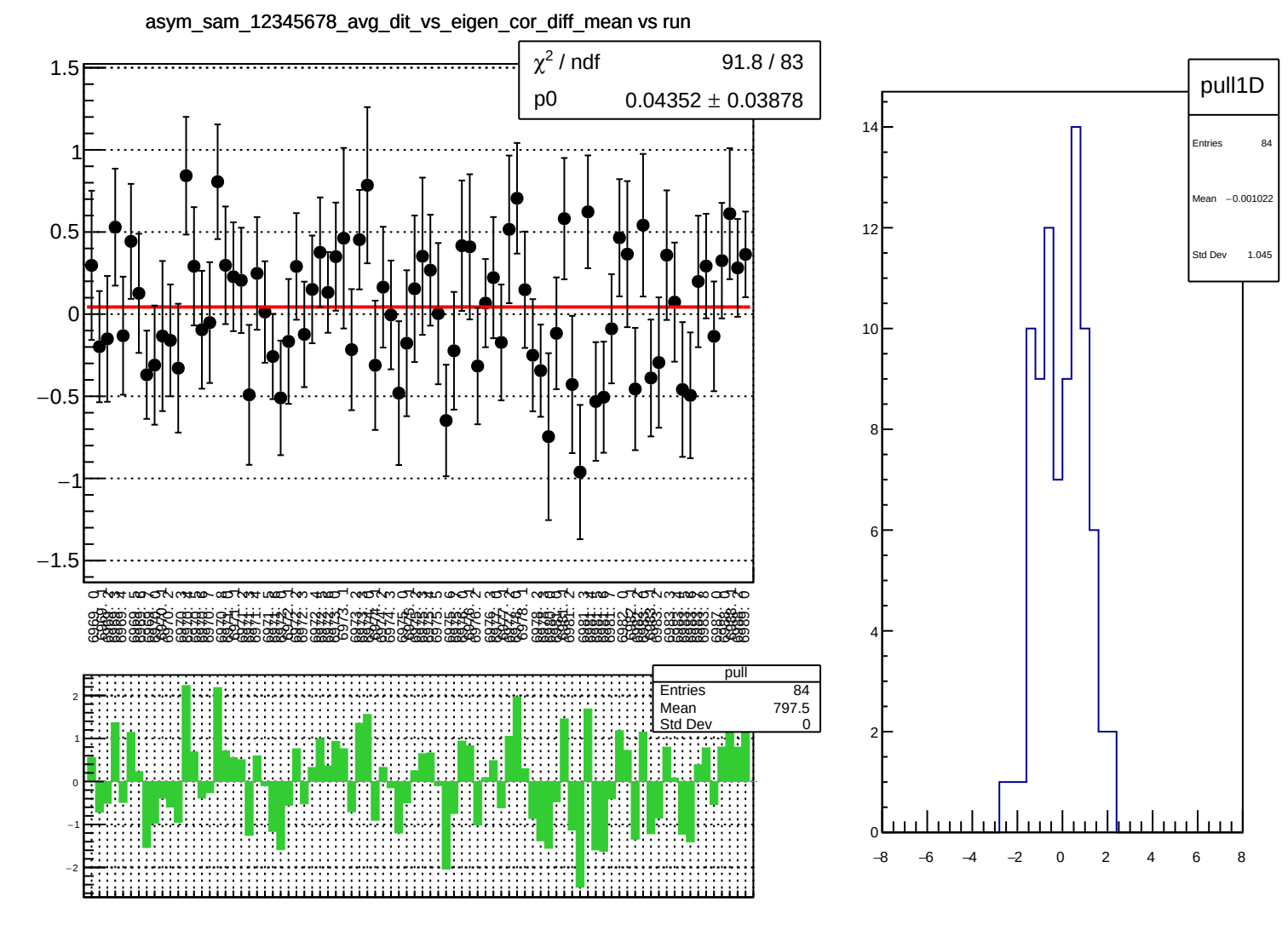

asym_sam_12345678_avg_rms vs run
χ² / ndf 8306 / 83
p0 669.8 ± 0.519
850
800
750
700
650
600

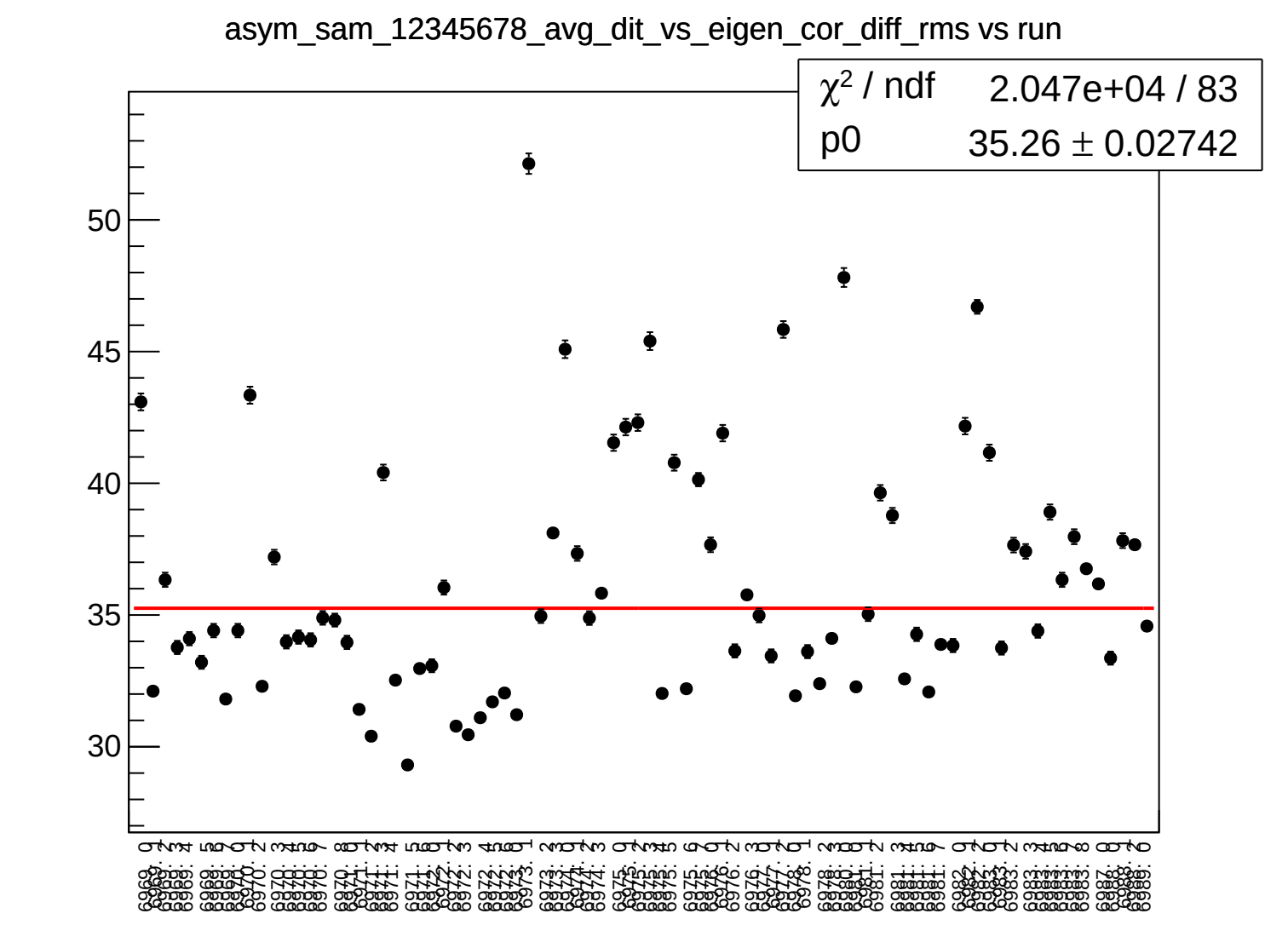

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.25 / 83
p0 1.635e−14 ± 4.177e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 84
Mean 7204
Std Dev 0
pull1D
Entries 84
Mean −0.0006861
Std Dev 1.082

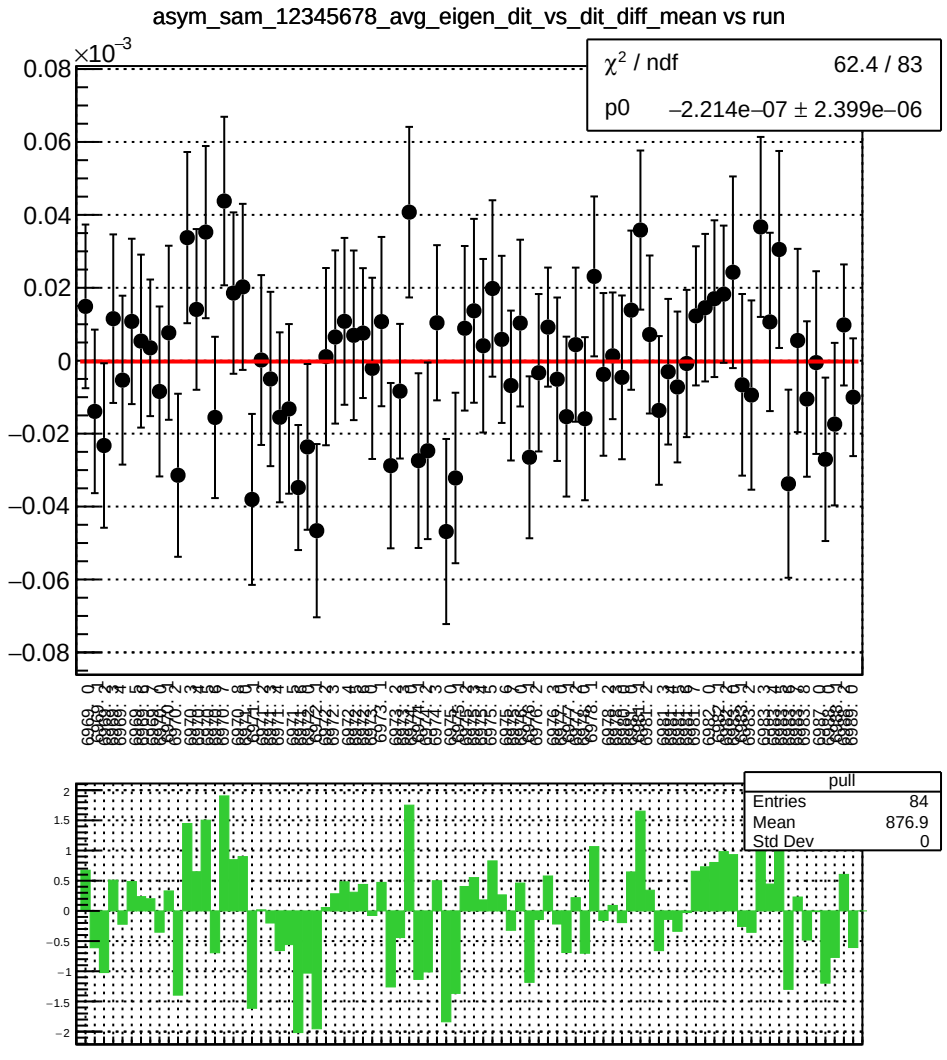

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 83
p0 2.32e−11 ± 2.953e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

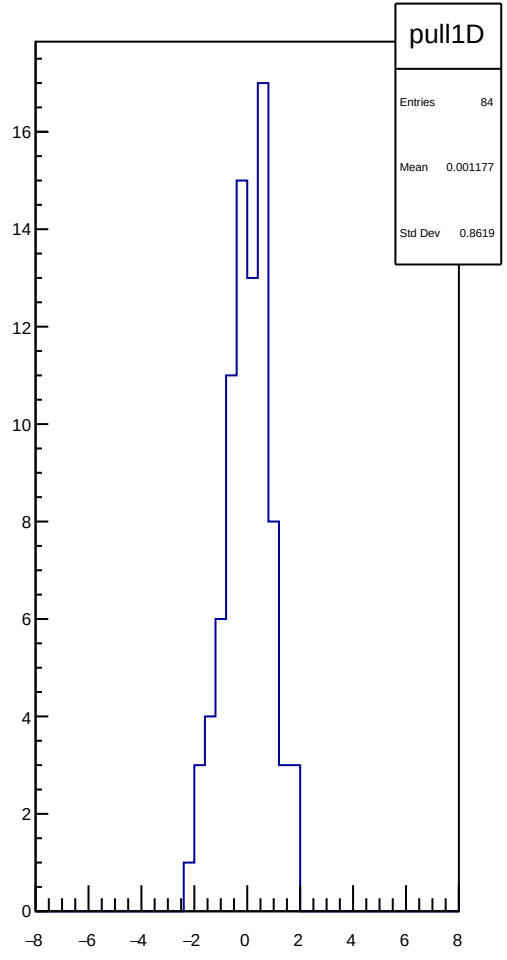

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.8 / 83
p0 0.04352 ± 0.03878
pull
Entries 84
Mean 797.5
Std Dev 0
pull1D
Entries 84
Mean −0.001022
Std Dev 1.045

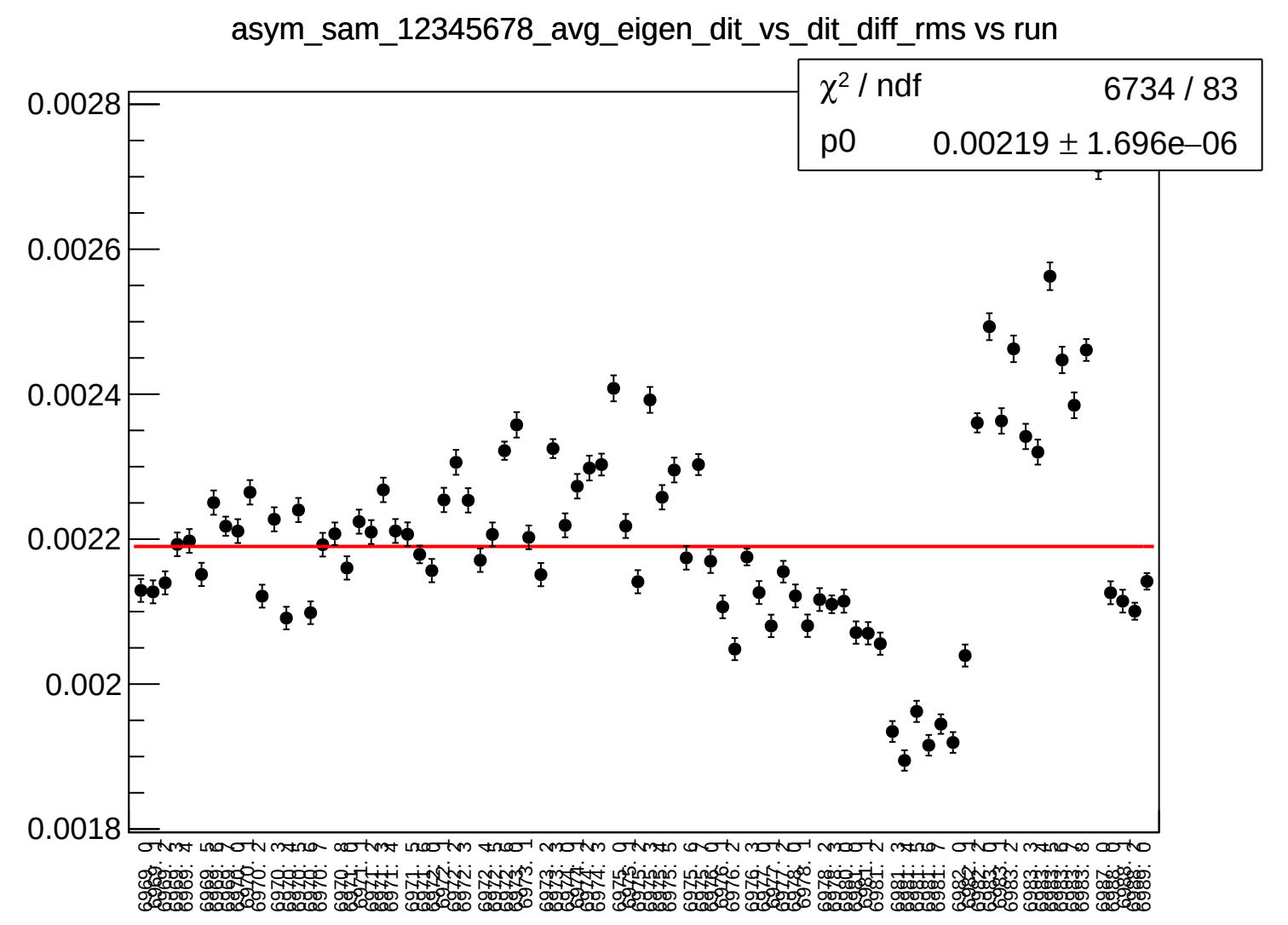

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.047e+04 / 83
p0 35.26 ± 0.02742
50
45
40
35
30

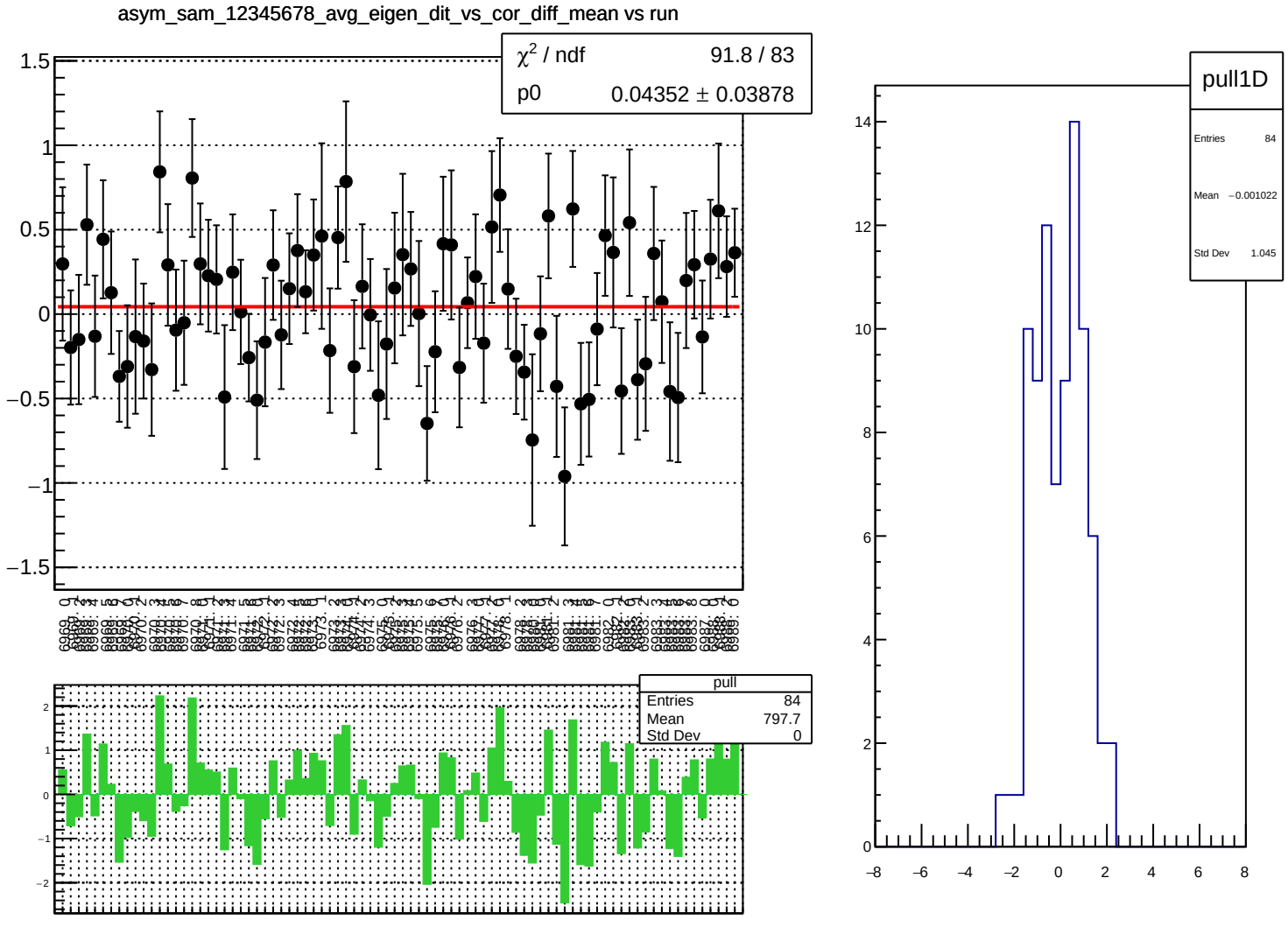

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.8 / 83
p0 0.04352 ± 0.03878
pull
Entries 84
Mean 797.5
Std Dev 0
pull1D
Entries 84
Mean −0.001022
Std Dev 1.045

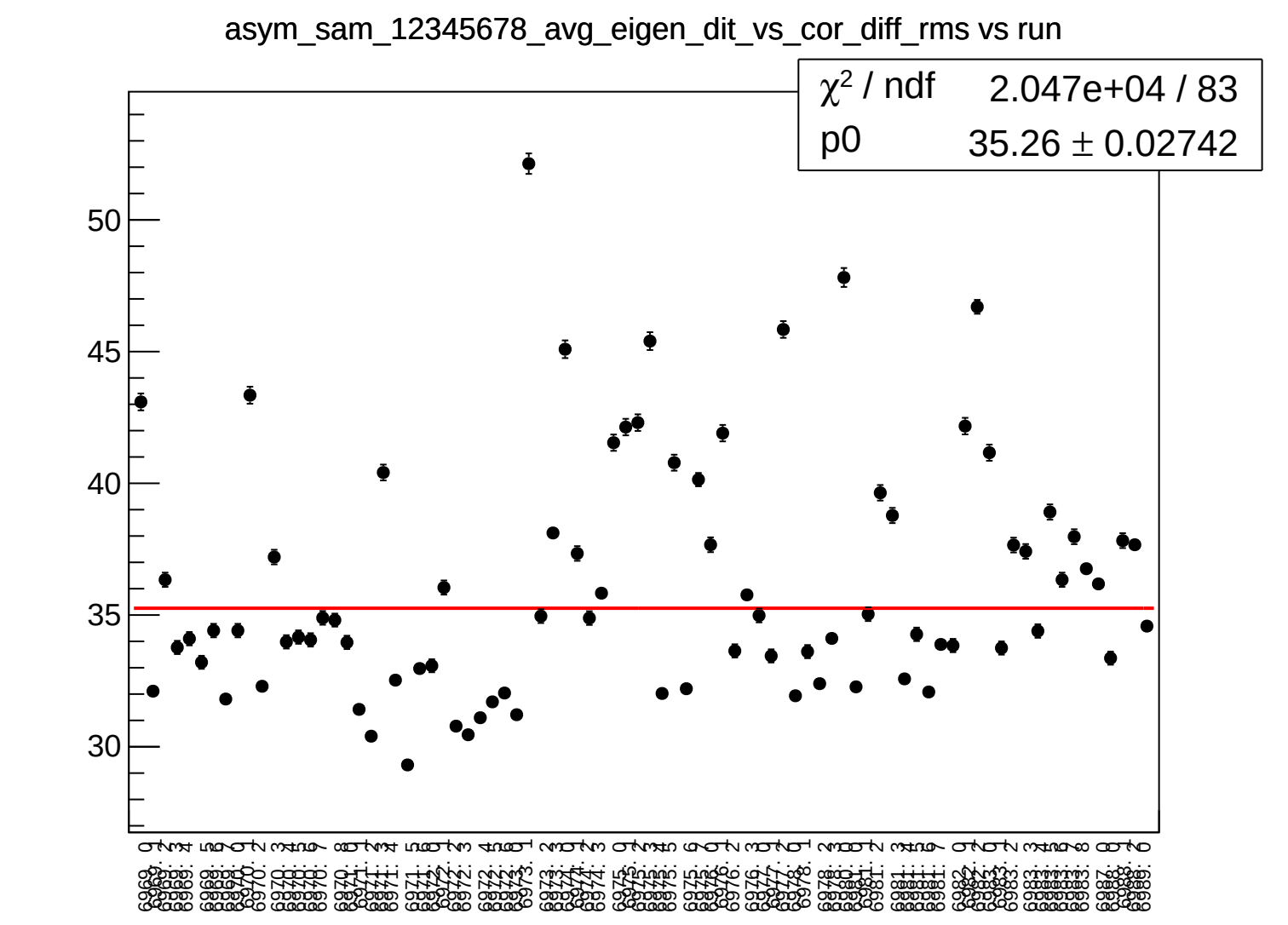

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.047e+04 / 83
p0 35.26 ± 0.02742
50
45
40
35
30

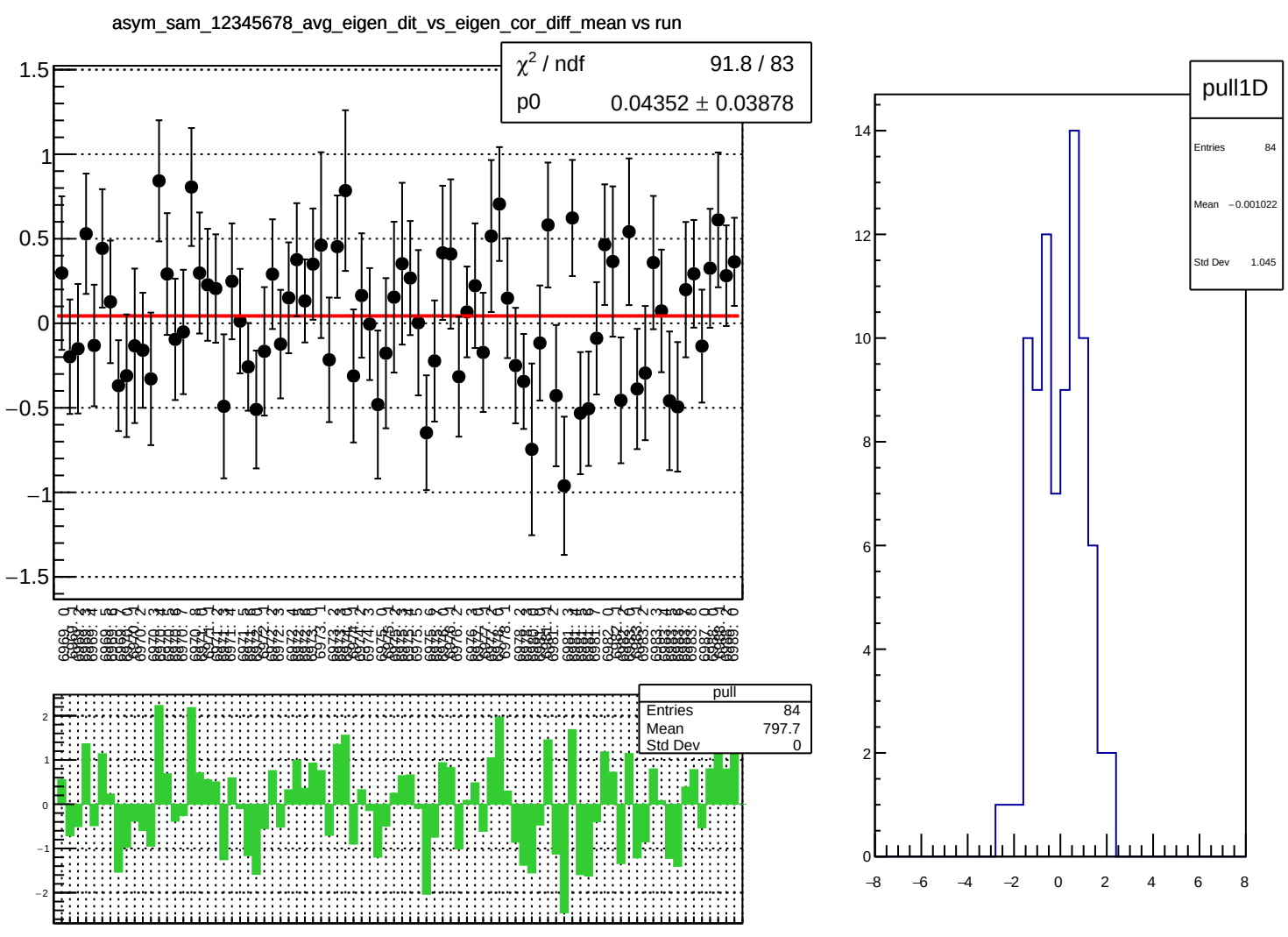

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.4 / 83
p0 −2.214e−07 ± 2.399e−06
pull
Entries 84
Mean 876.9
Std Dev 0

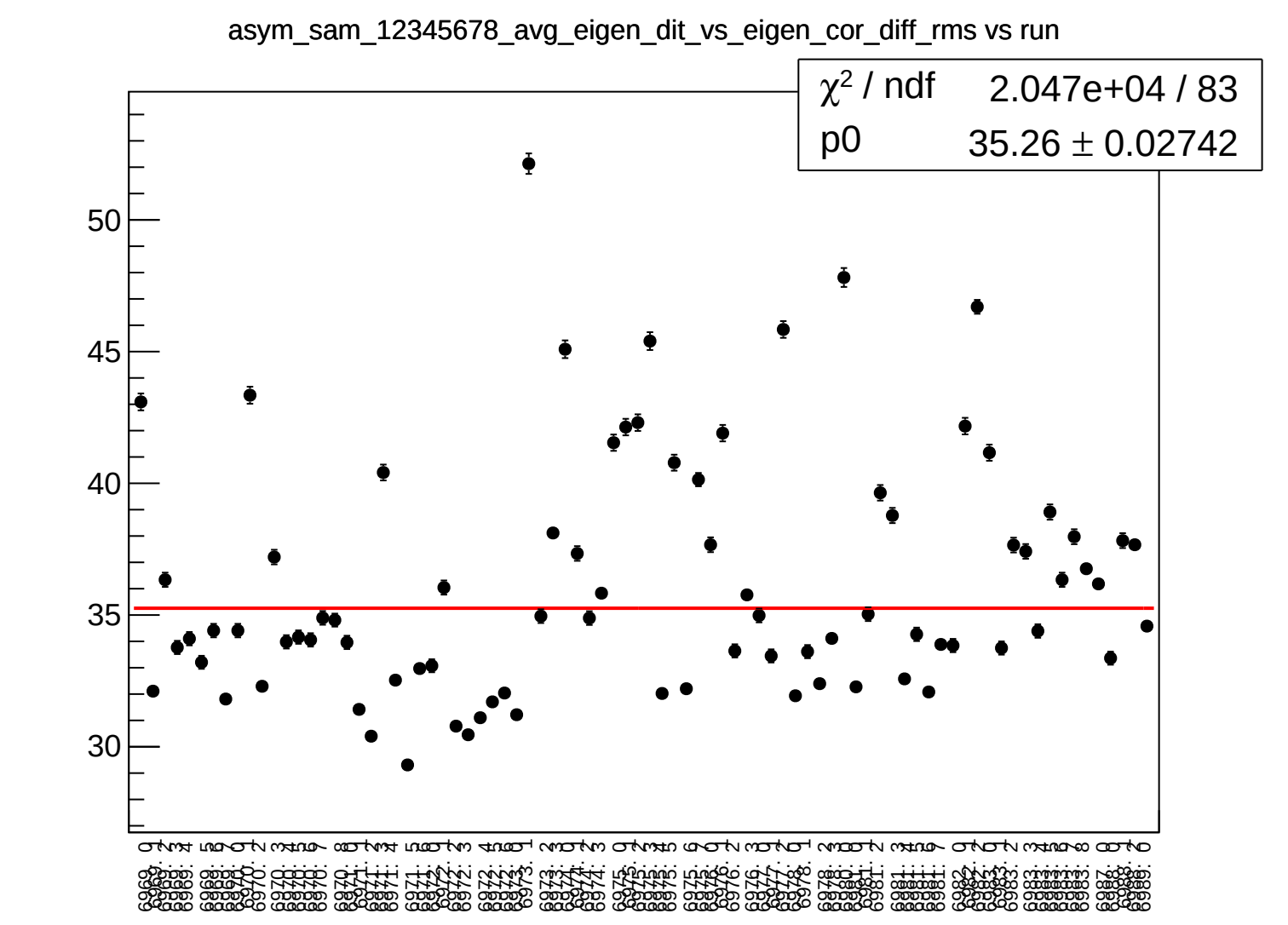

pull1D
Entries 84
Mean 0.001177
Std Dev 0.8619

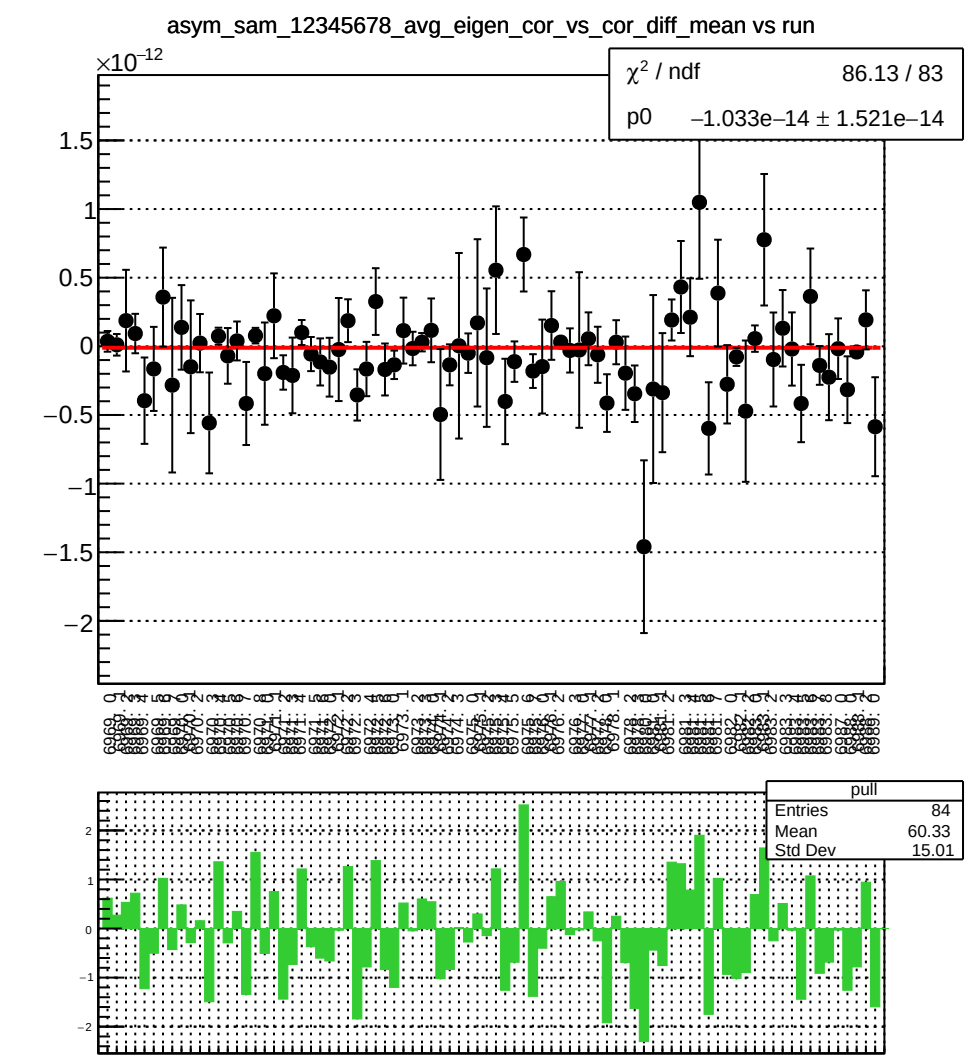

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6734 / 83
p0 0.00219 ± 1.696e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

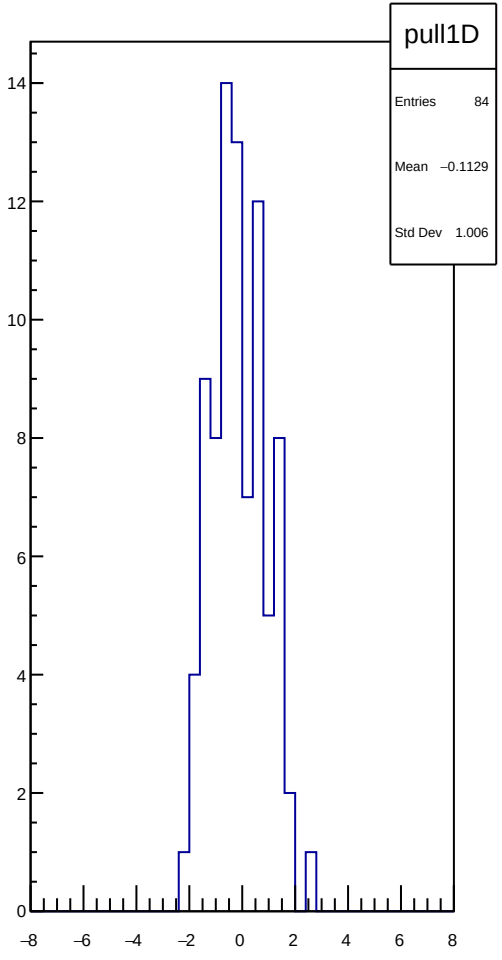

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.8 / 83
p0 0.04352 ± 0.03878
pull
Entries 84
Mean 797.7
Std Dev 0
pull1D
Entries 84
Mean −0.001022
Std Dev 1.045

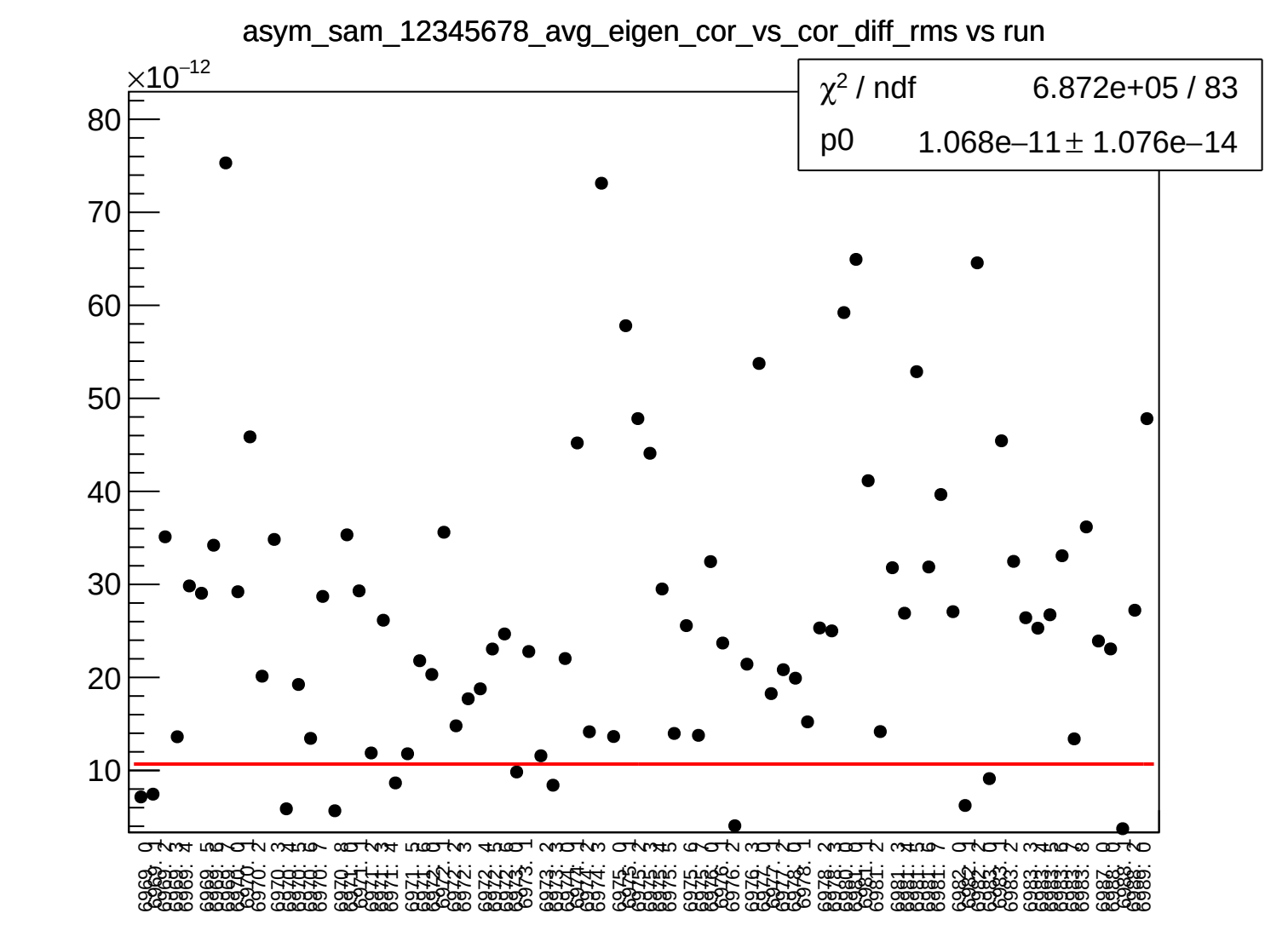

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.047e+04 / 83
p0 35.26 ± 0.02742
50
45
40
35
30

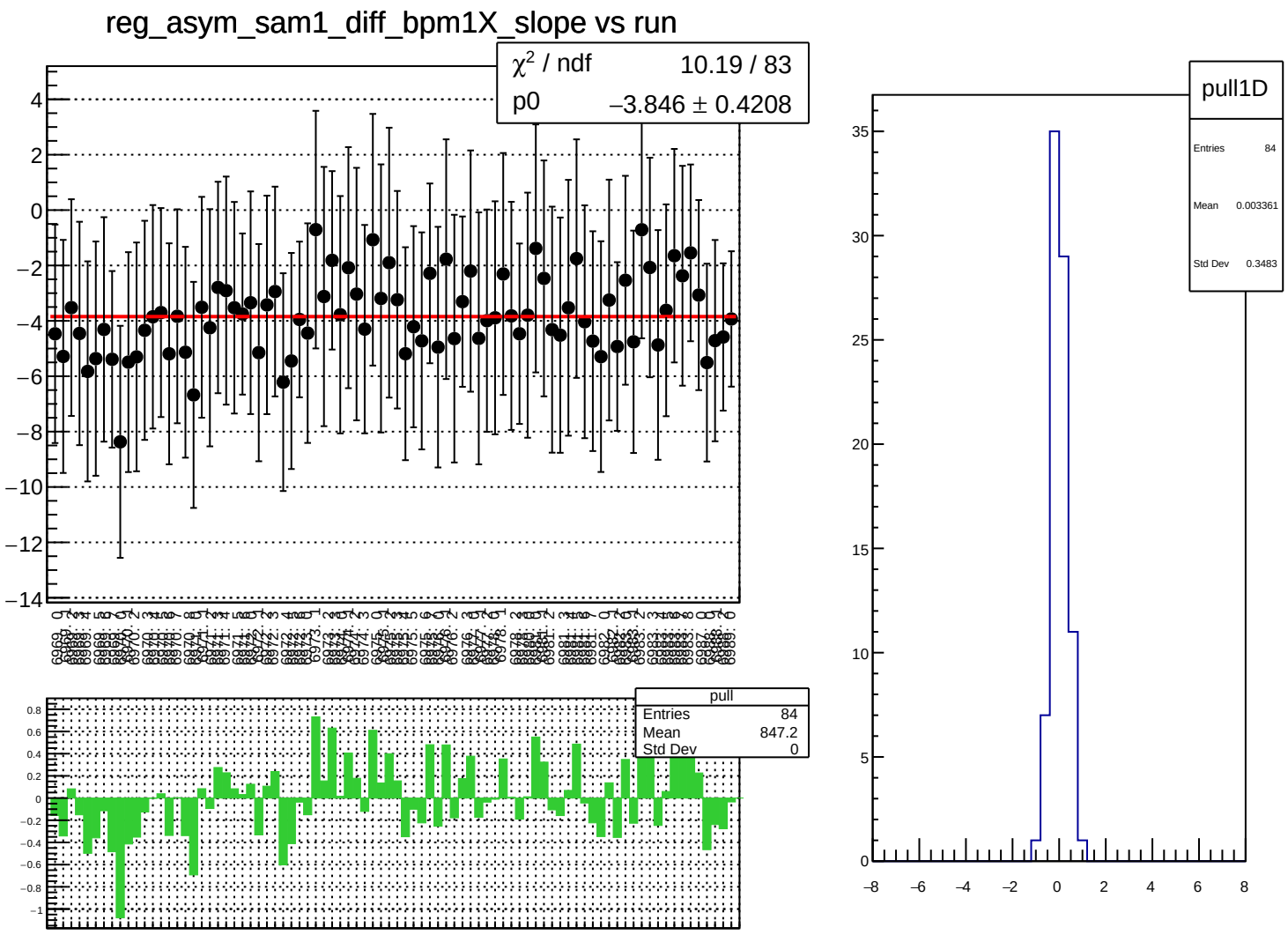

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.8 / 83
p0 0.04352 ± 0.03878
pull
Entries 84
Mean 797.7
Std Dev 0
pull1D
Entries 84
Mean −0.001022
Std Dev 1.045

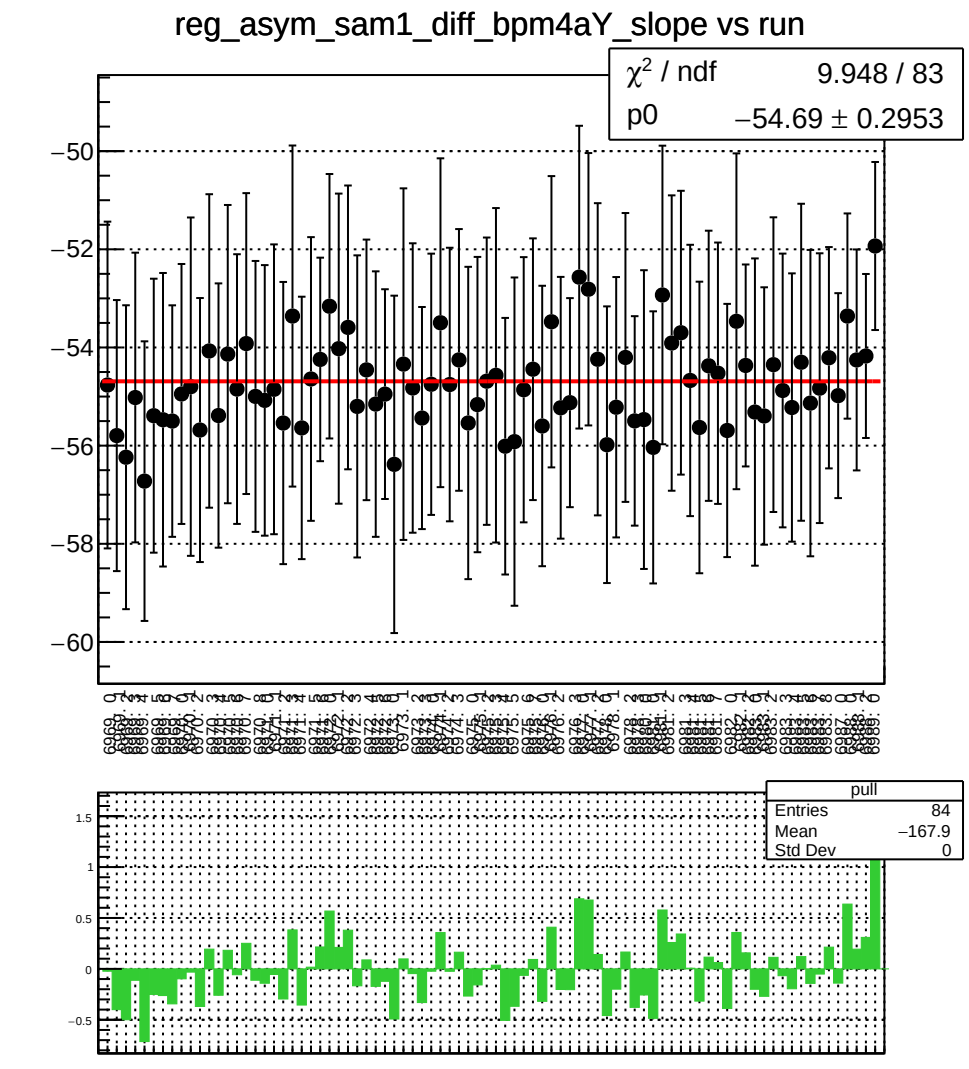

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.047e+04 / 83
p0 35.26 ± 0.02742
50
45
40
35
30

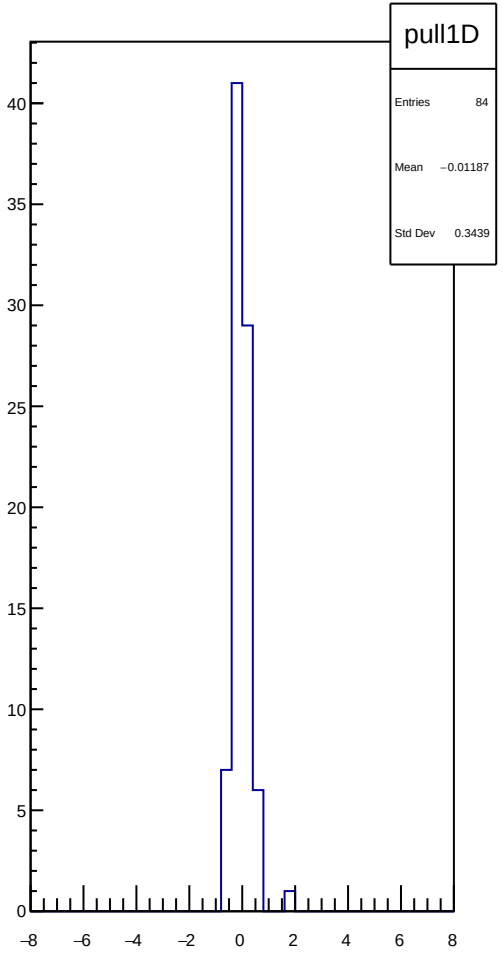

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.13 / 83
p0 −1.033e−14 ± 1.521e−14
pull
Entries 84
Mean 60.33
Std Dev 15.01

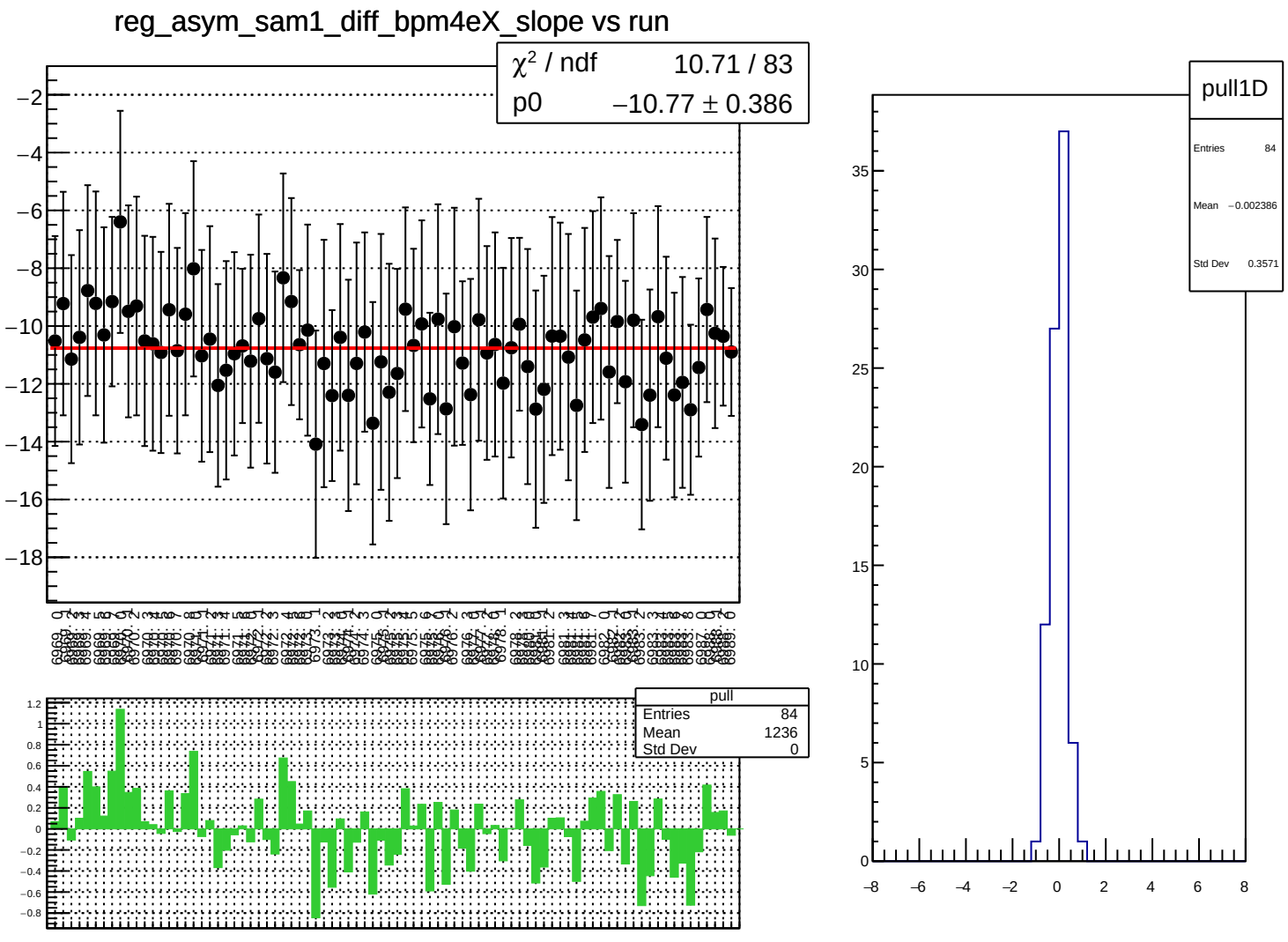

pull1D
Entries 84
Mean −0.1129
Std Dev 1.006

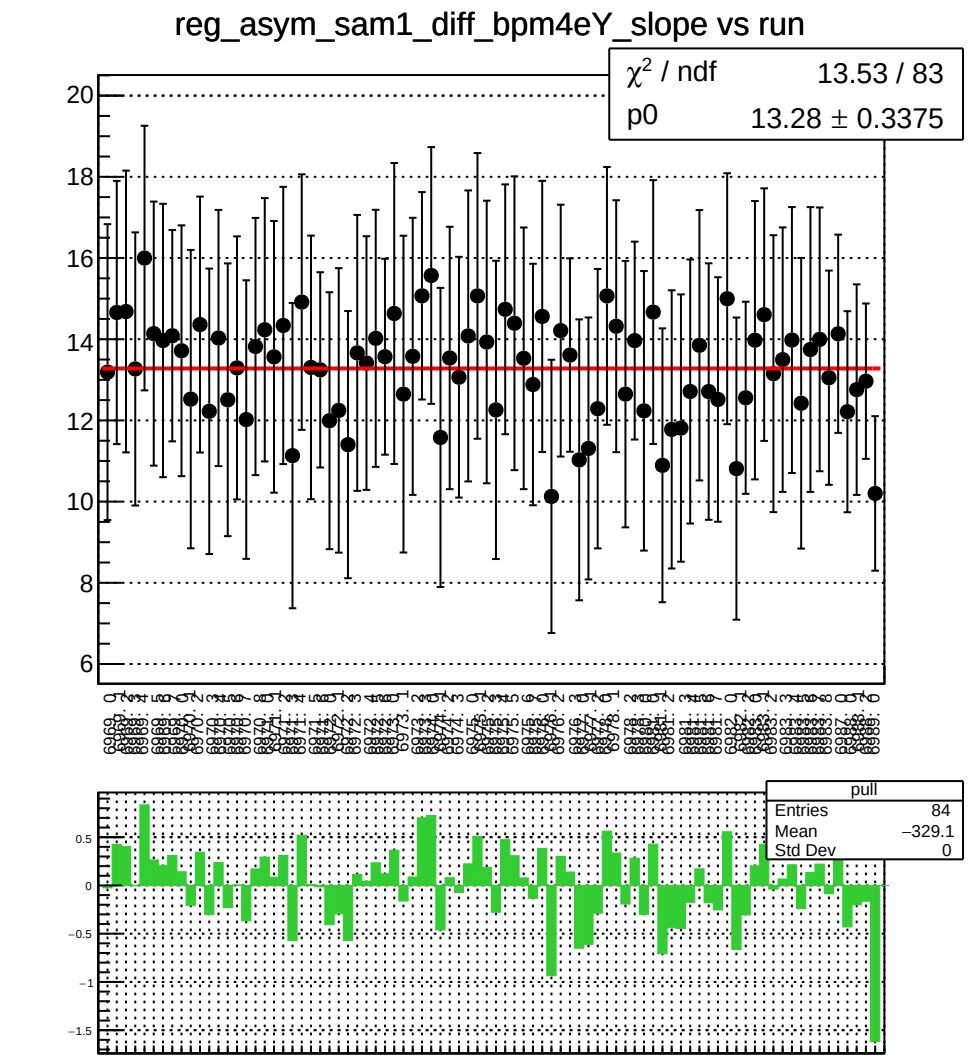

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.872e+05 / 83
p0 1.068e−11 ± 1.076e−14
80
70
60
50
40
30
20
10

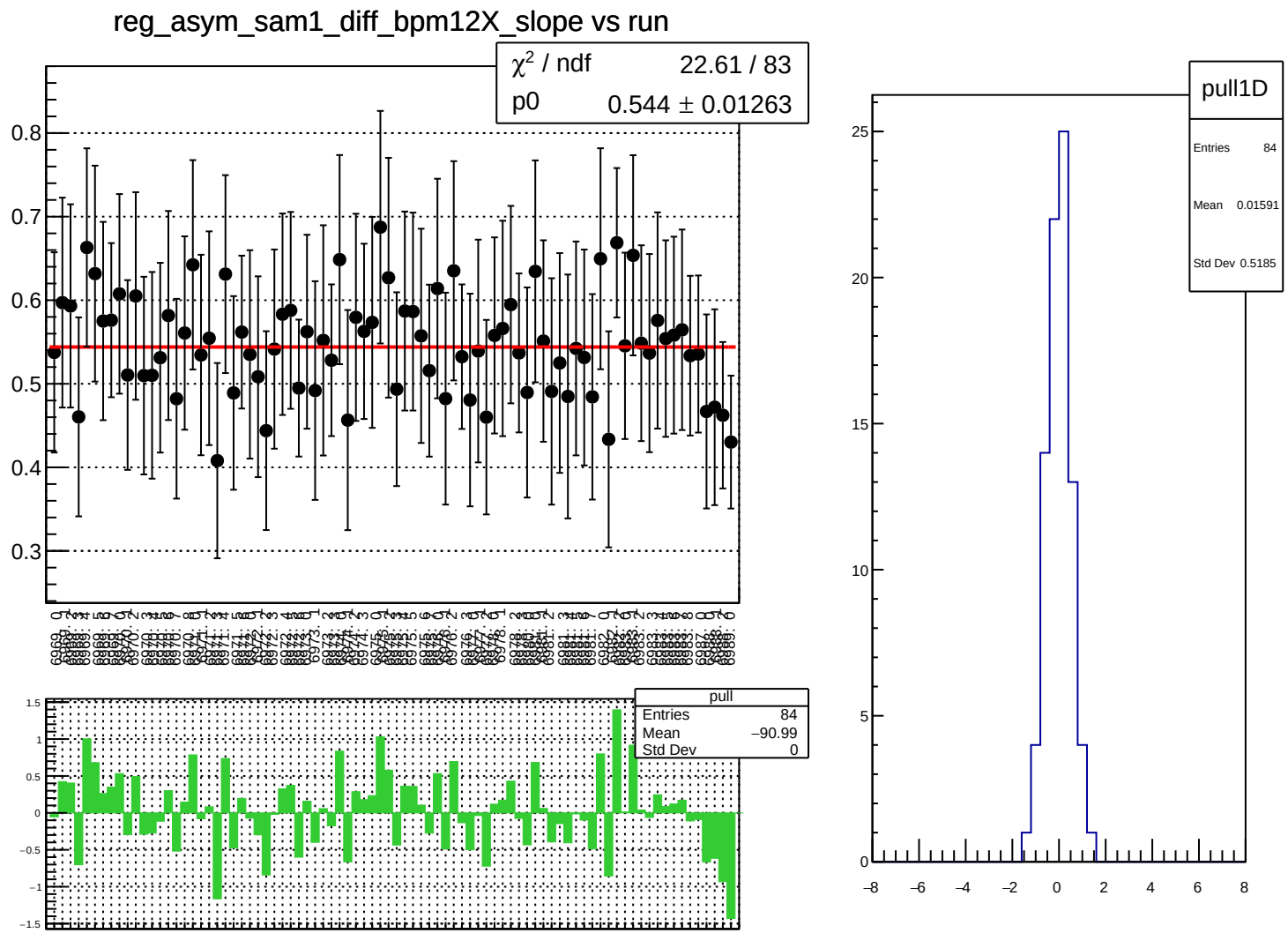

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 10.19 / 83
p0 −3.846 ± 0.4208
pull
Entries 84
Mean 847.2
Std Dev 0
pull1D
Entries 84
Mean 0.003361
Std Dev 0.3483

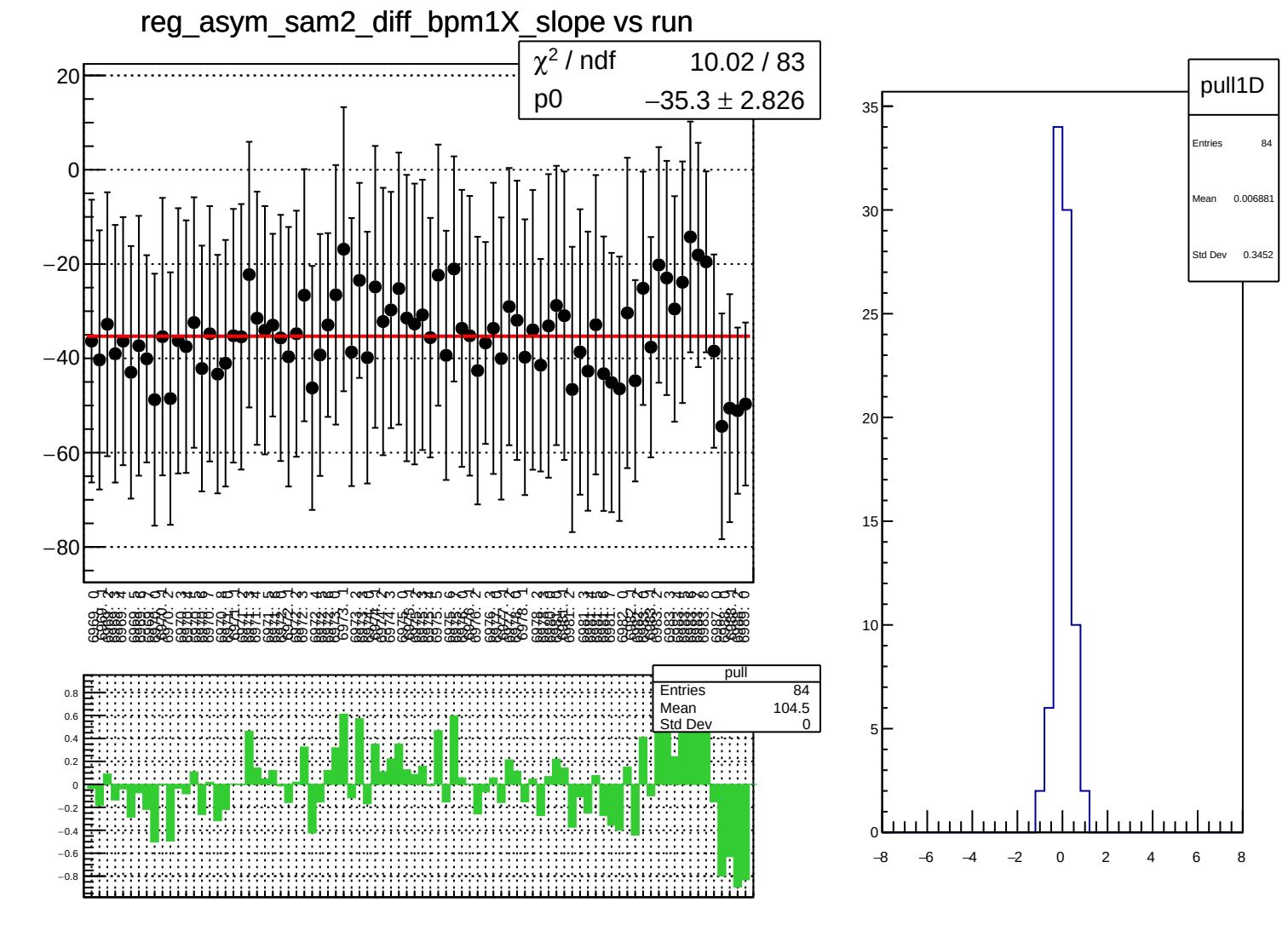

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 9.948 / 83
p0 −54.69 ± 0.2953
pull
Entries 84
Mean −167.9
Std Dev 0

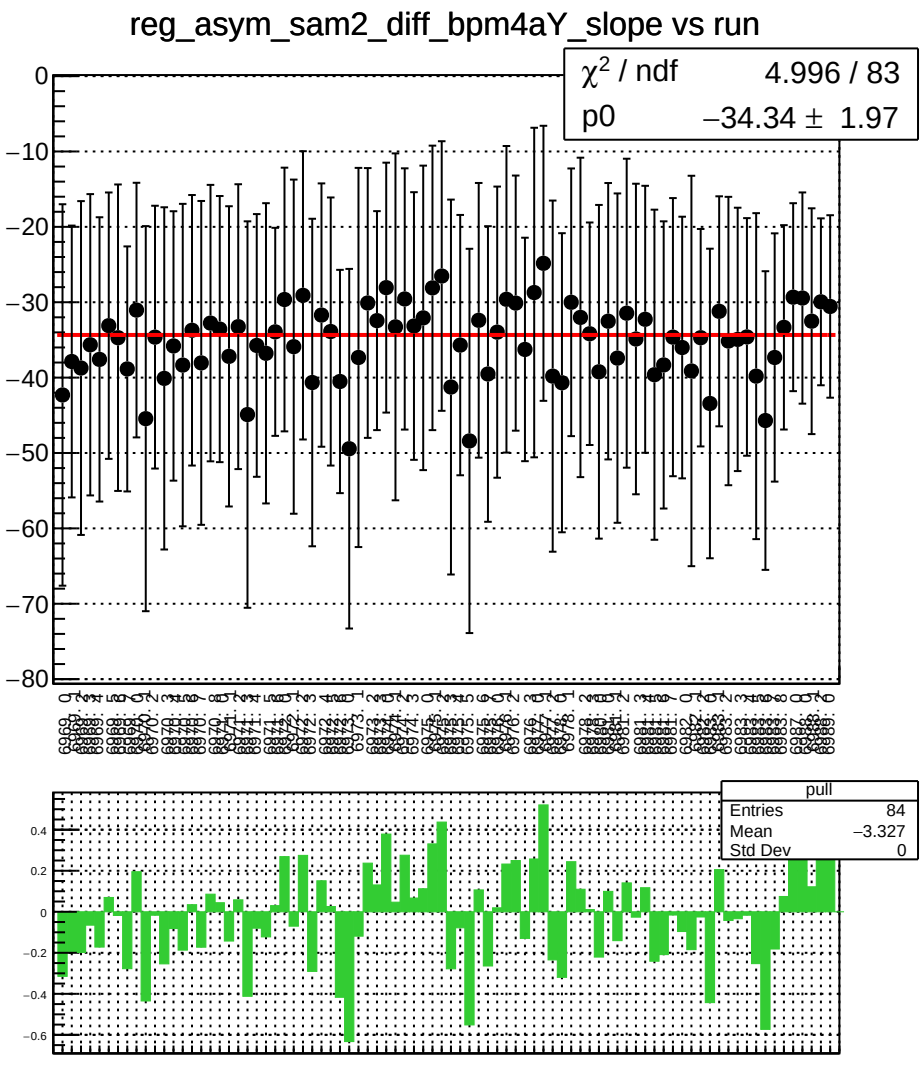

pull1D
Entries 84
Mean −0.01187
Std Dev 0.3439

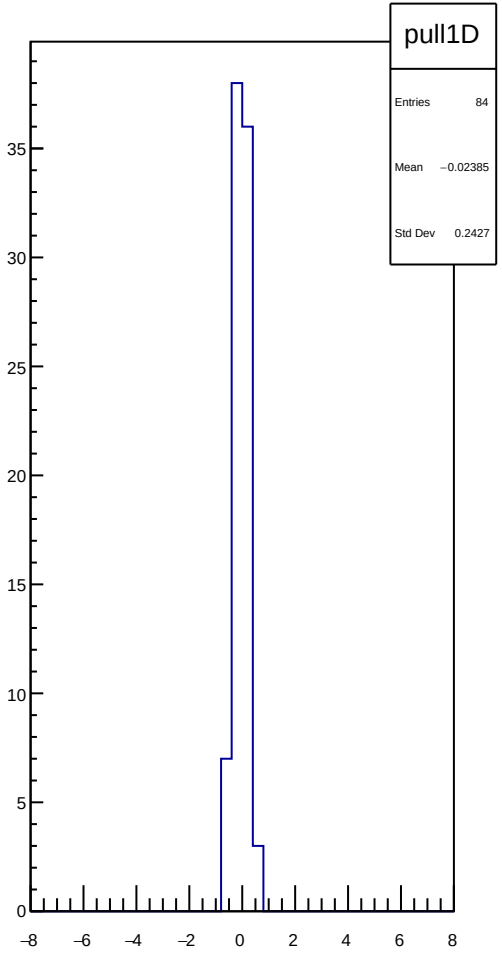

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 10.71 / 83
p0 −10.77 ± 0.386
pull
Entries 84
Mean 1236
Std Dev 0
pull1D
Entries 84
Mean −0.002386
Std Dev 0.3571

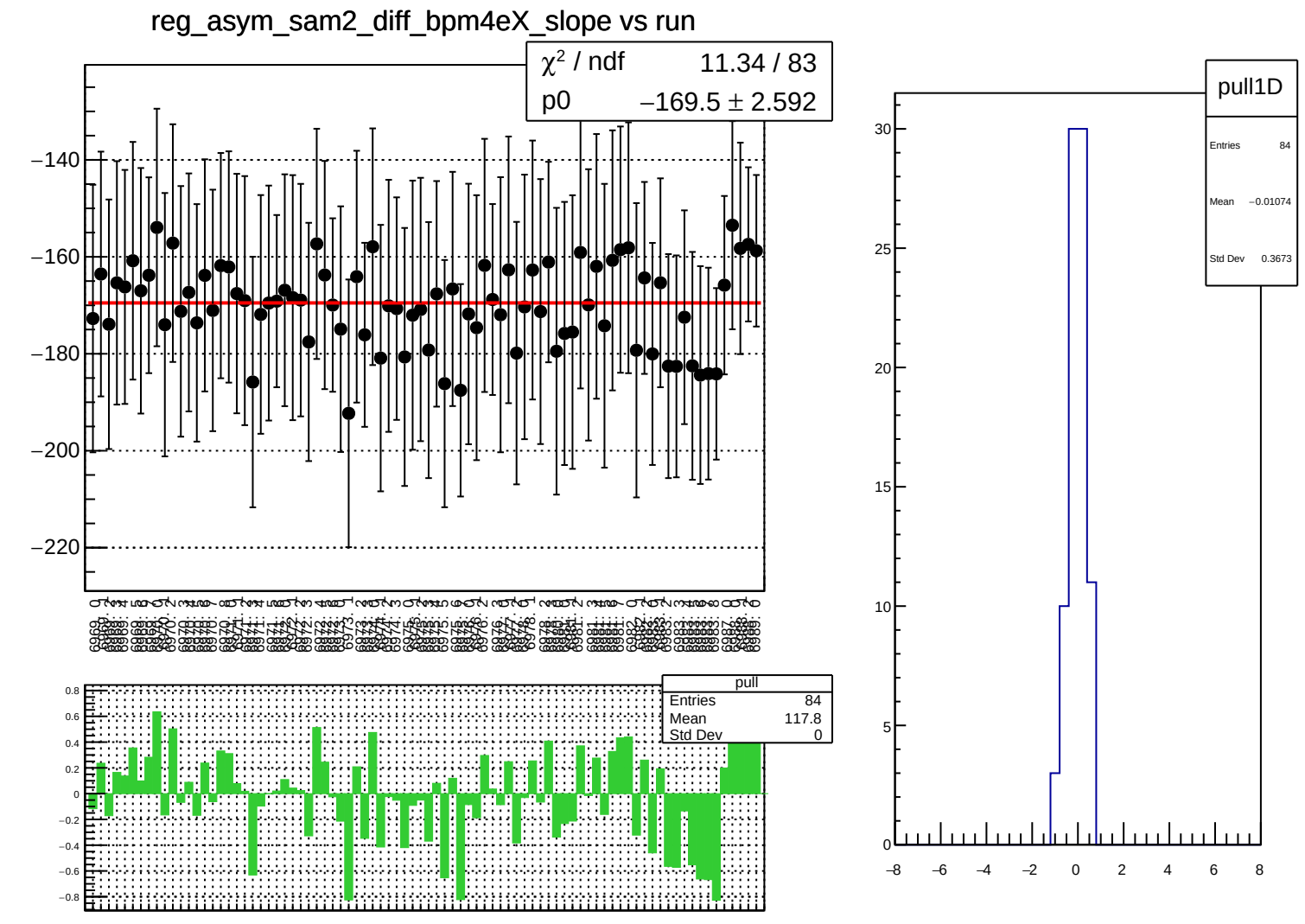

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 13.53 / 83
p0 13.28 ± 0.3375
pull
Entries 84
Mean −329.1
Std Dev 0
pull1D
Entries 84
Mean 0.006683
Std Dev 0.4013

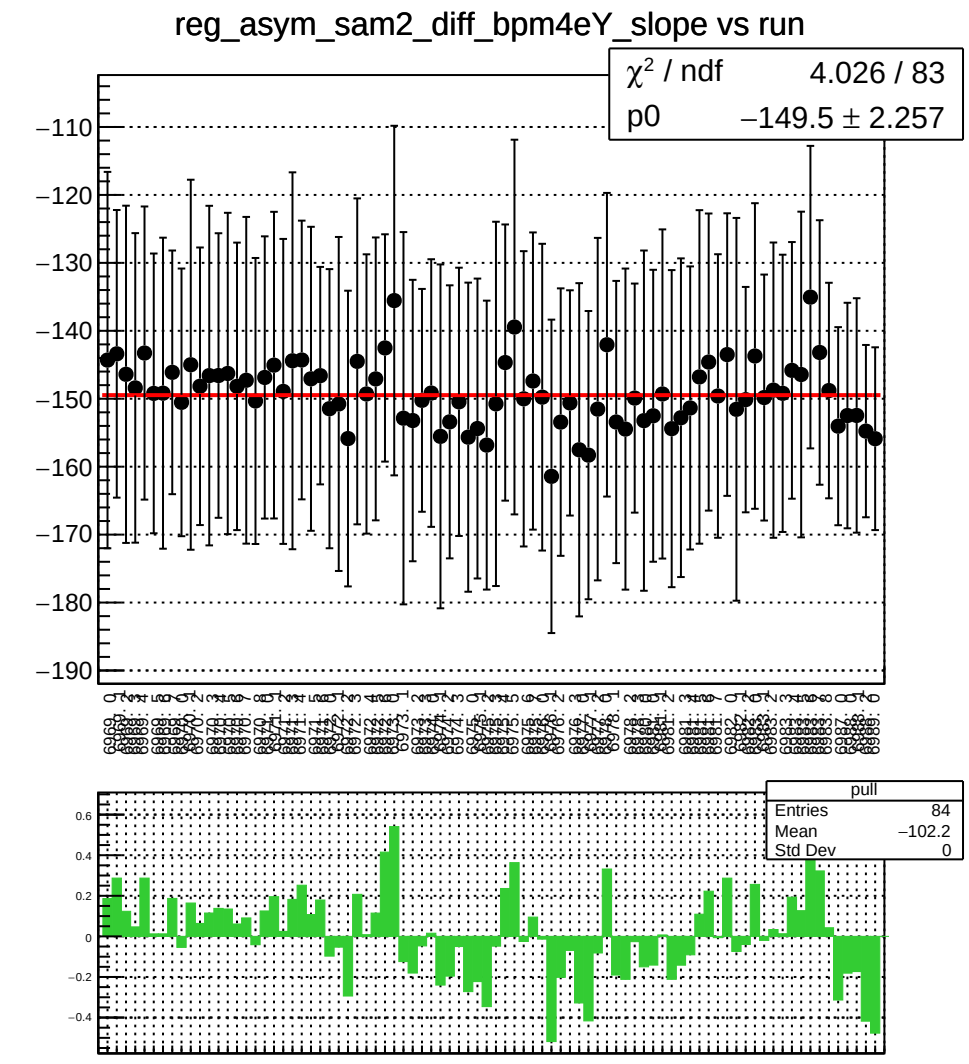

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 22.61 / 83
p0 0.544 ± 0.01263
pull
Entries 84
Mean −90.99
Std Dev 0
pull1D
Entries 84
Mean 0.01591
Std Dev 0.5185

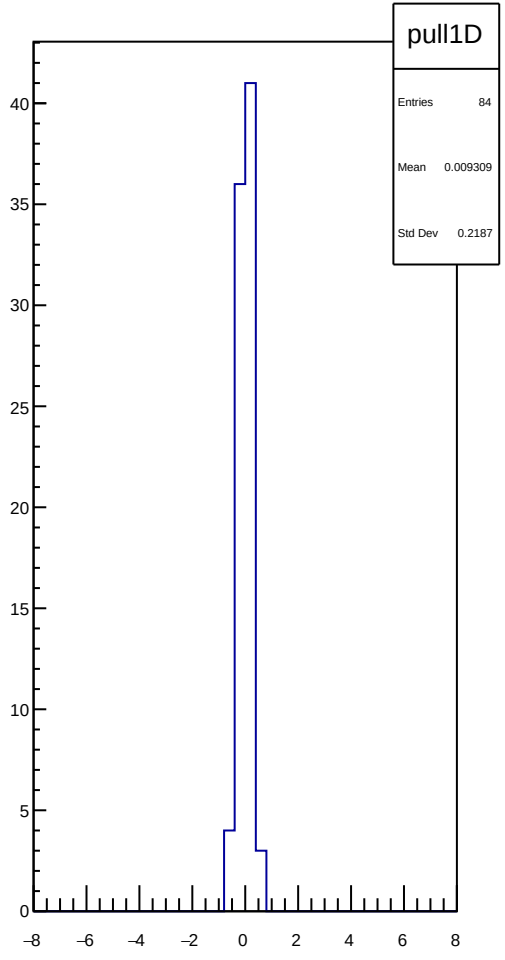

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 10.02 / 83
p0 −35.3 ± 2.826
pull
Entries 84
Mean 104.5
Std Dev 0
pull1D
Entries 84
Mean 0.006881
Std Dev 0.3452

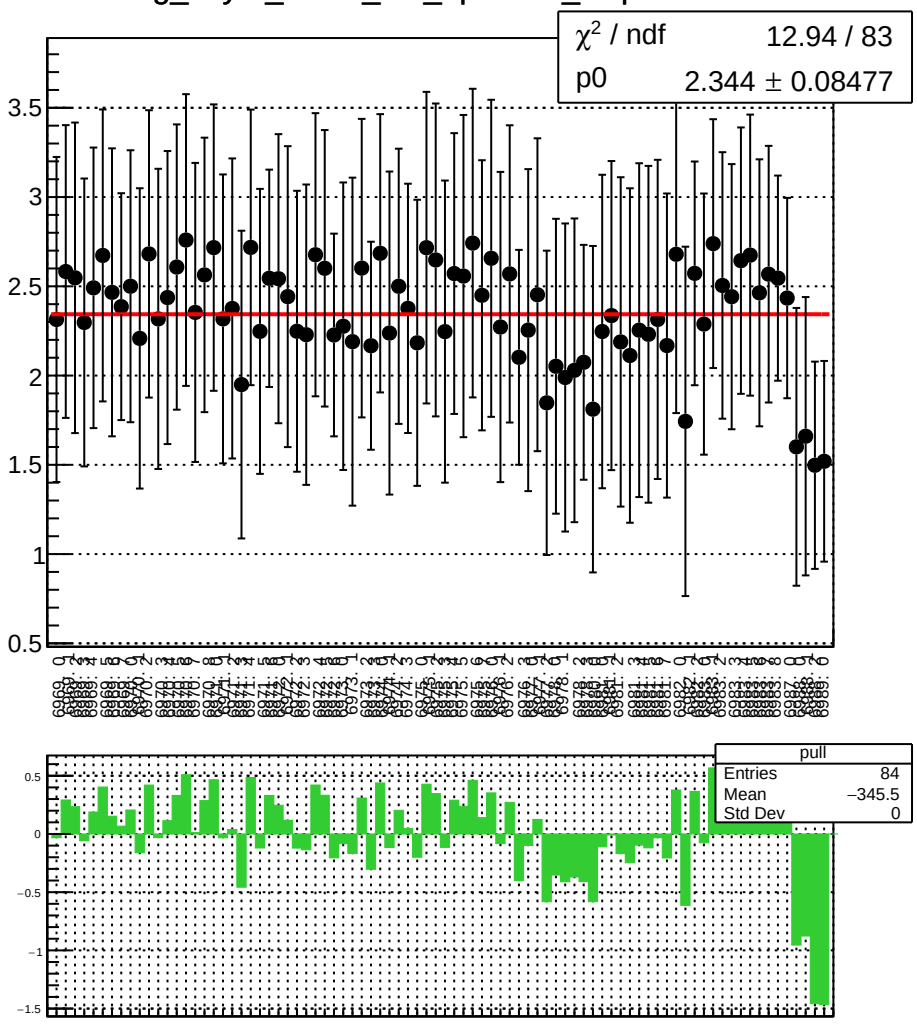

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 4.996 / 83
p0 −34.34 ± 1.97
pull
Entries 84
Mean −3.327
Std Dev 0

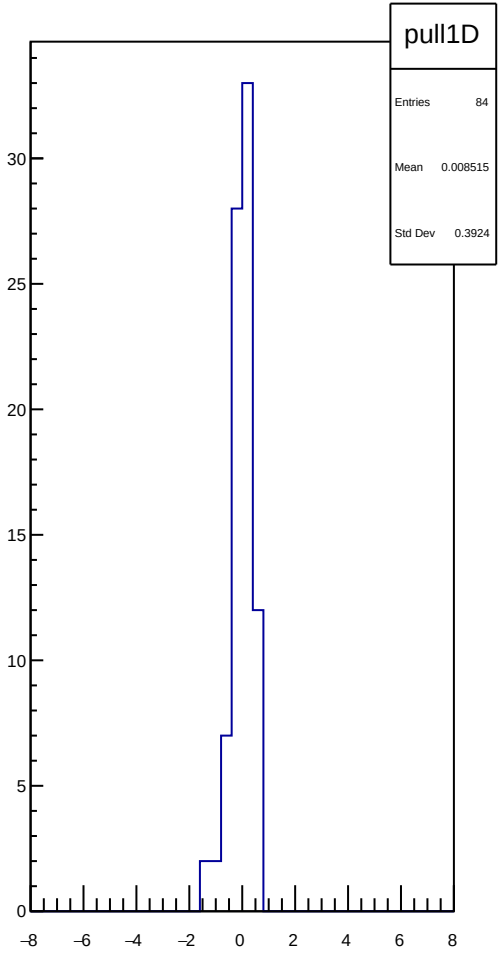

pull1D
Entries 84
Mean −0.02385
Std Dev 0.2427

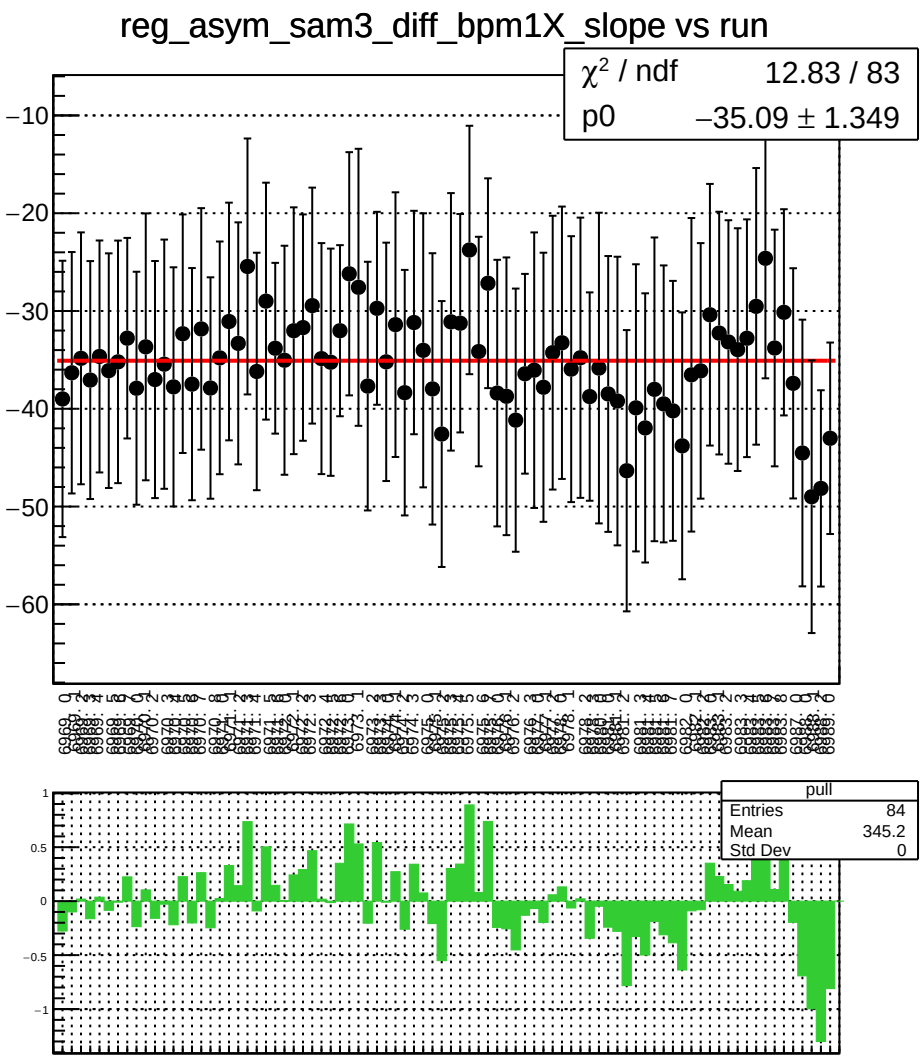

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 11.34 / 83
p0 −169.5 ± 2.592
−140
−160
−180
−200
−220
pull
Entries 84
Mean 117.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 84
Mean −0.01074
Std Dev 0.3673
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

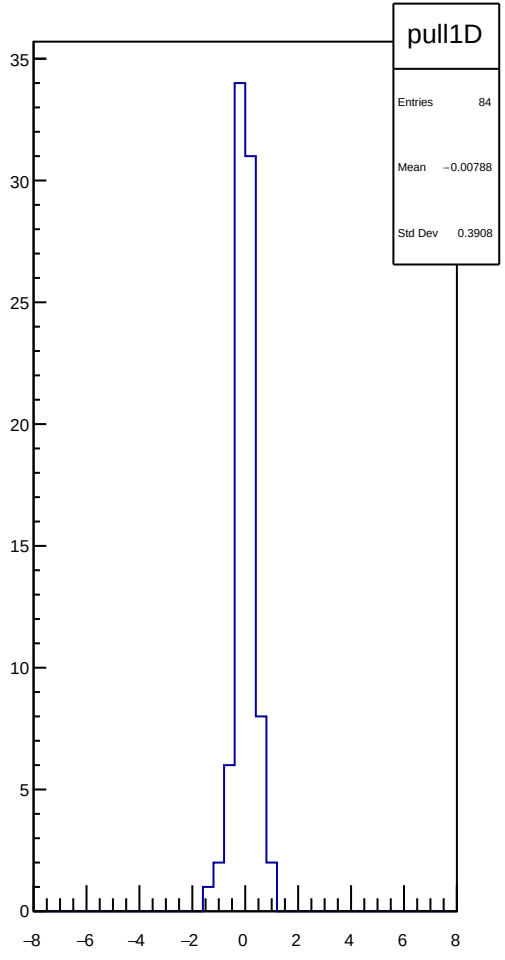

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 4.026 / 83
p0 −149.5 ± 2.257
pull
Entries 84
Mean −102.2
Std Dev 0

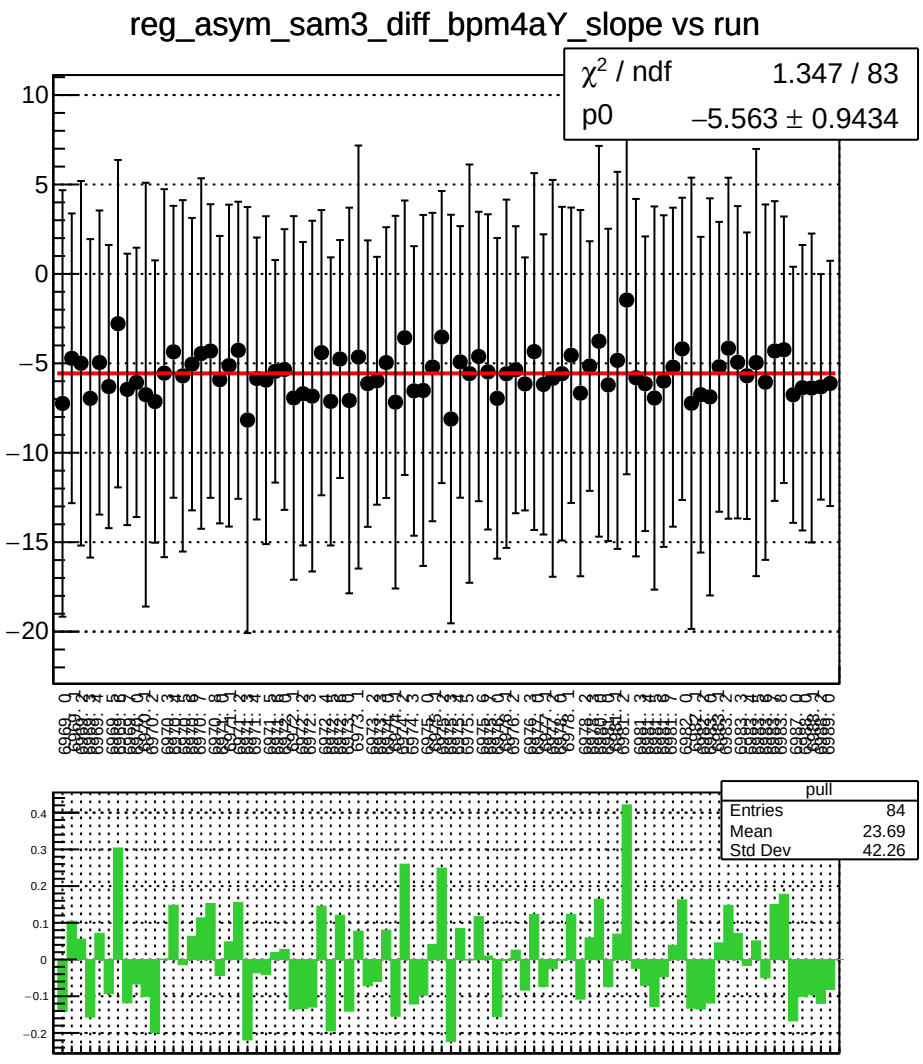

pull1D
Entries 84
Mean 0.009309
Std Dev 0.2187

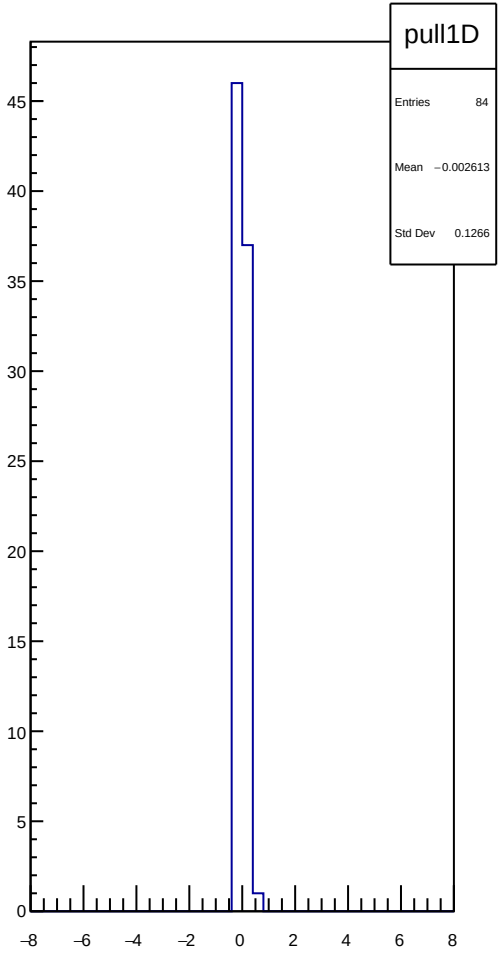

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 12.94 / 83
p0 2.344 ± 0.08477
pull
Entries 84
Mean −345.5
Std Dev 0

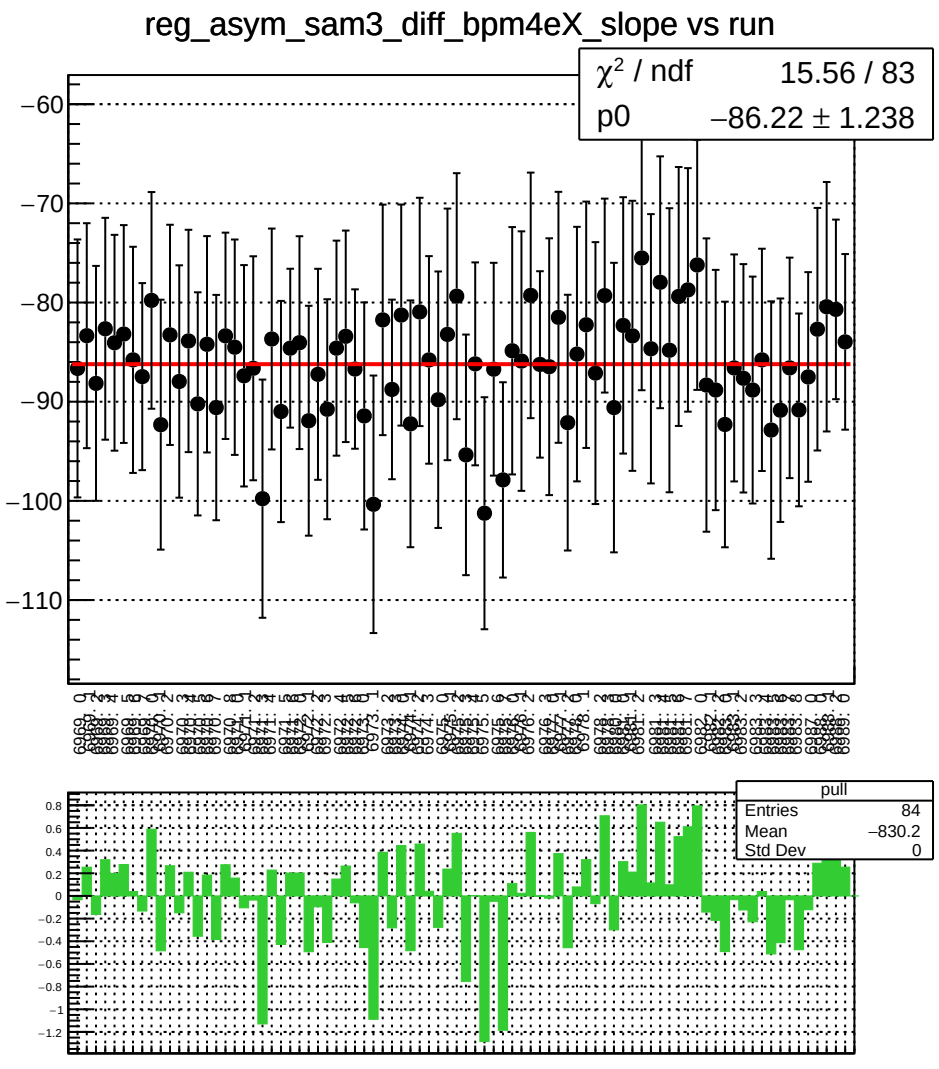

pull1D
Entries 84
Mean 0.008515
Std Dev 0.3924

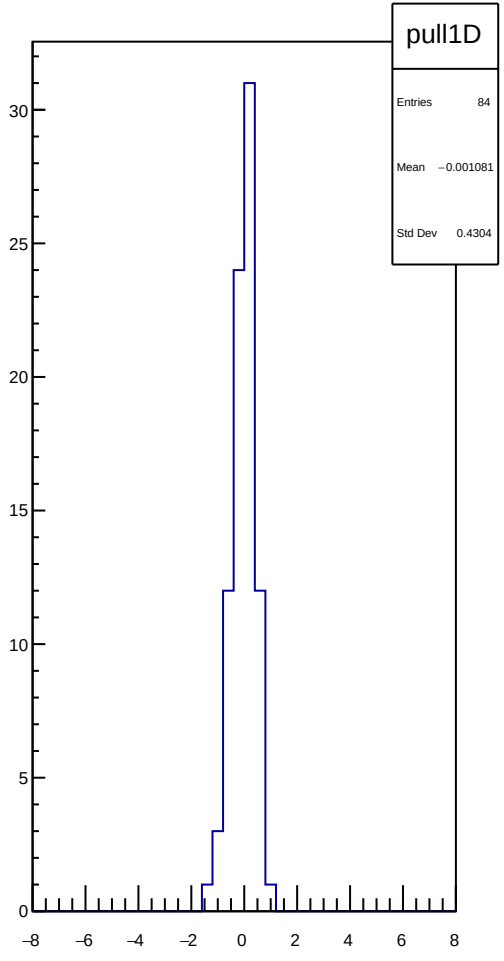

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 12.83 / 83
p0 −35.09 ± 1.349
pull
Entries 84
Mean 345.2
Std Dev 0

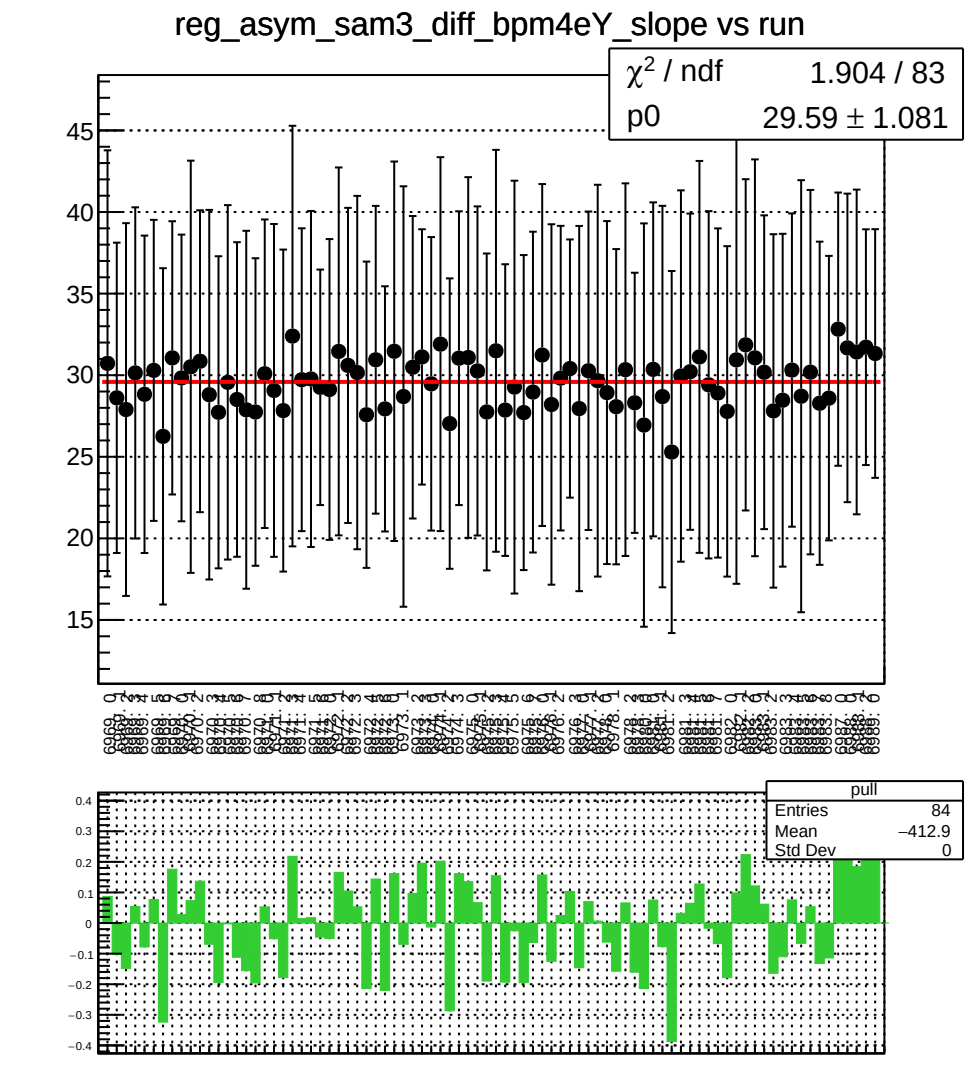

pull1D
Entries 84
Mean −0.00788
Std Dev 0.3908

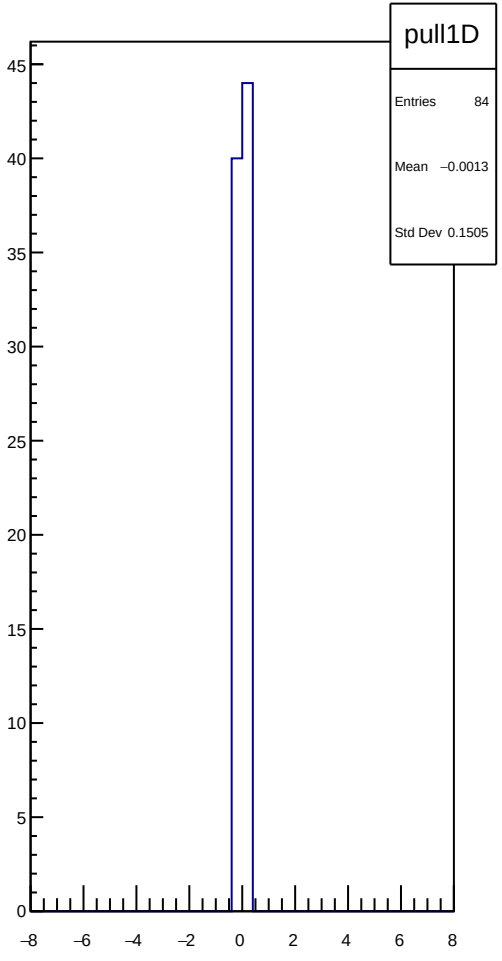

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.347 / 83
p0 −5.563 ± 0.9434
pull
Entries 84
Mean 23.69
Std Dev 42.26

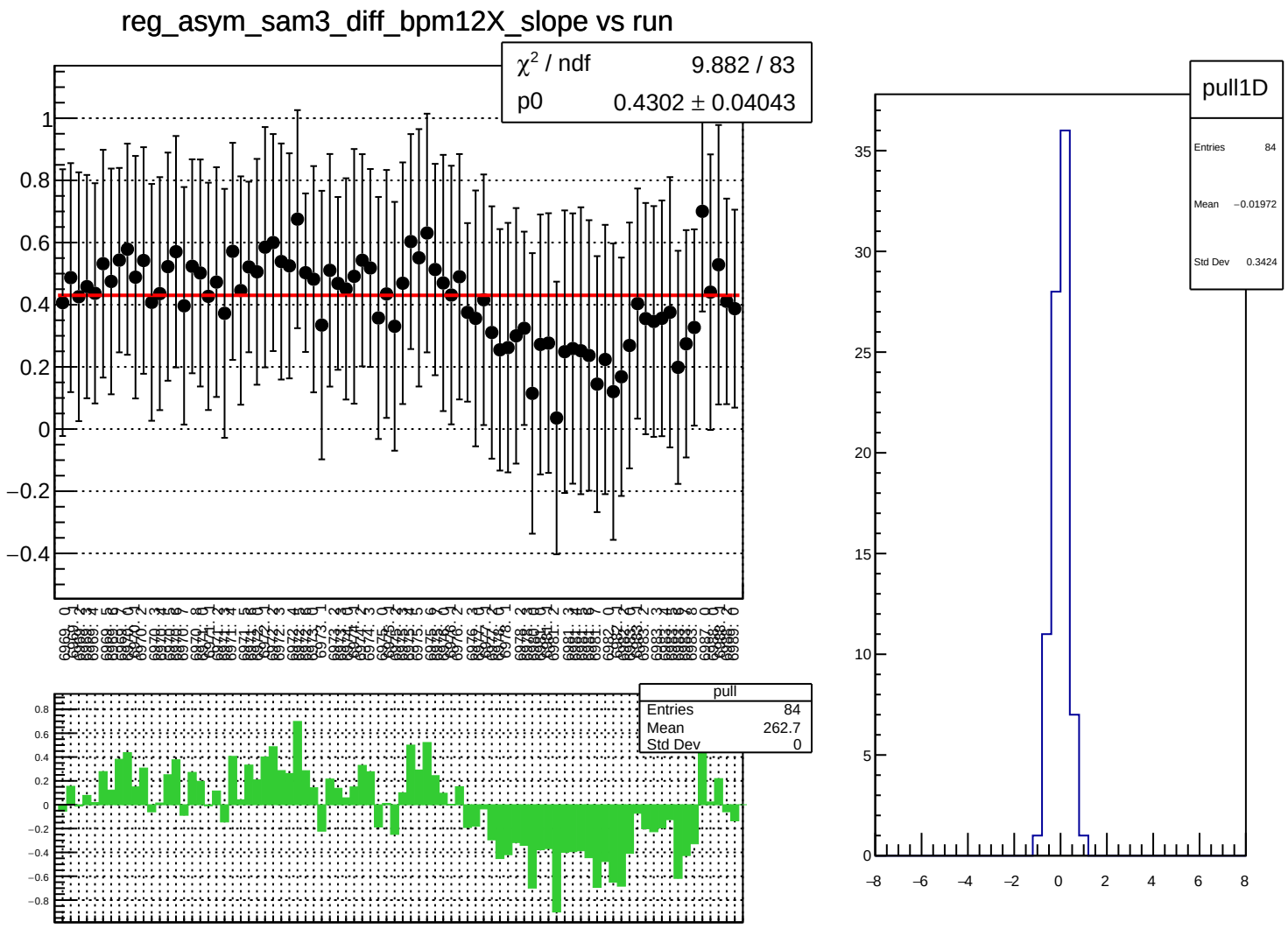

pull1D
Entries 84
Mean −0.002613
Std Dev 0.1266

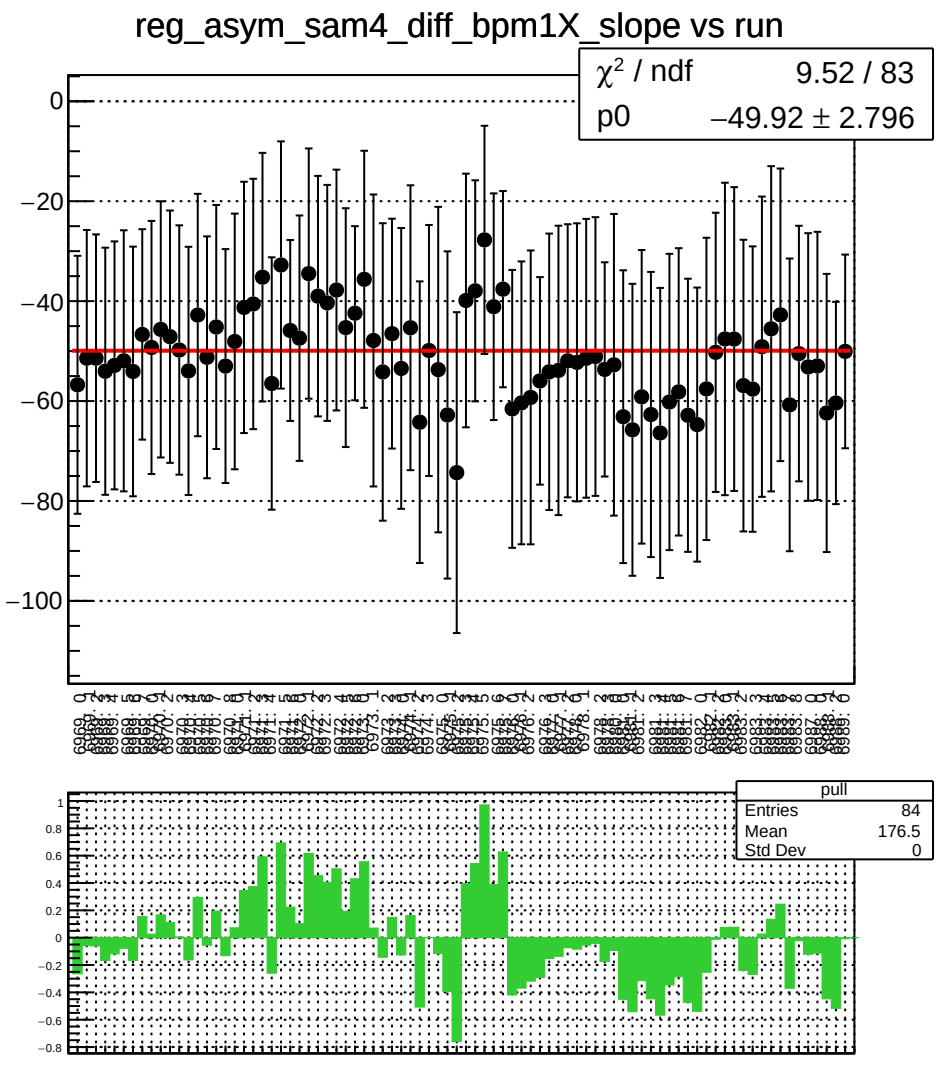

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 15.56 / 83
p0 −86.22 ± 1.238
pull
Entries 84
Mean −830.2
Std Dev 0

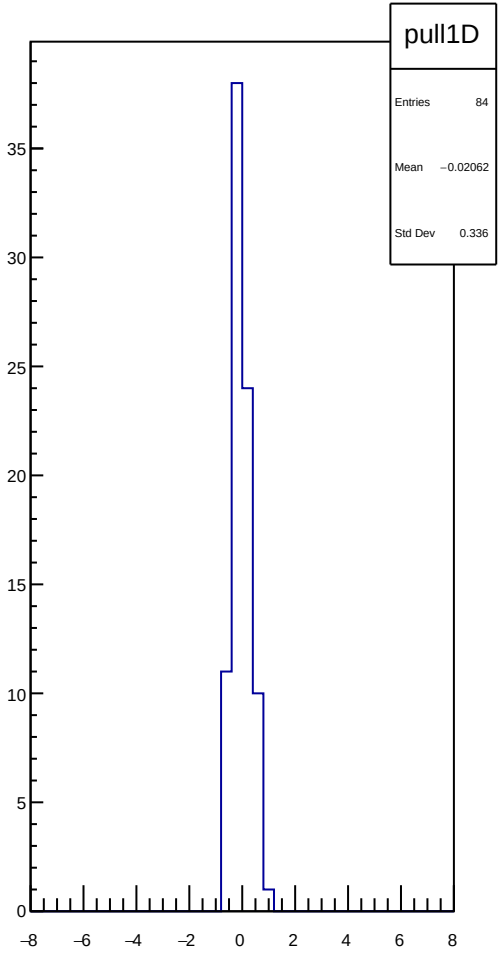

pull1D
Entries 84
Mean −0.001081
Std Dev 0.4304

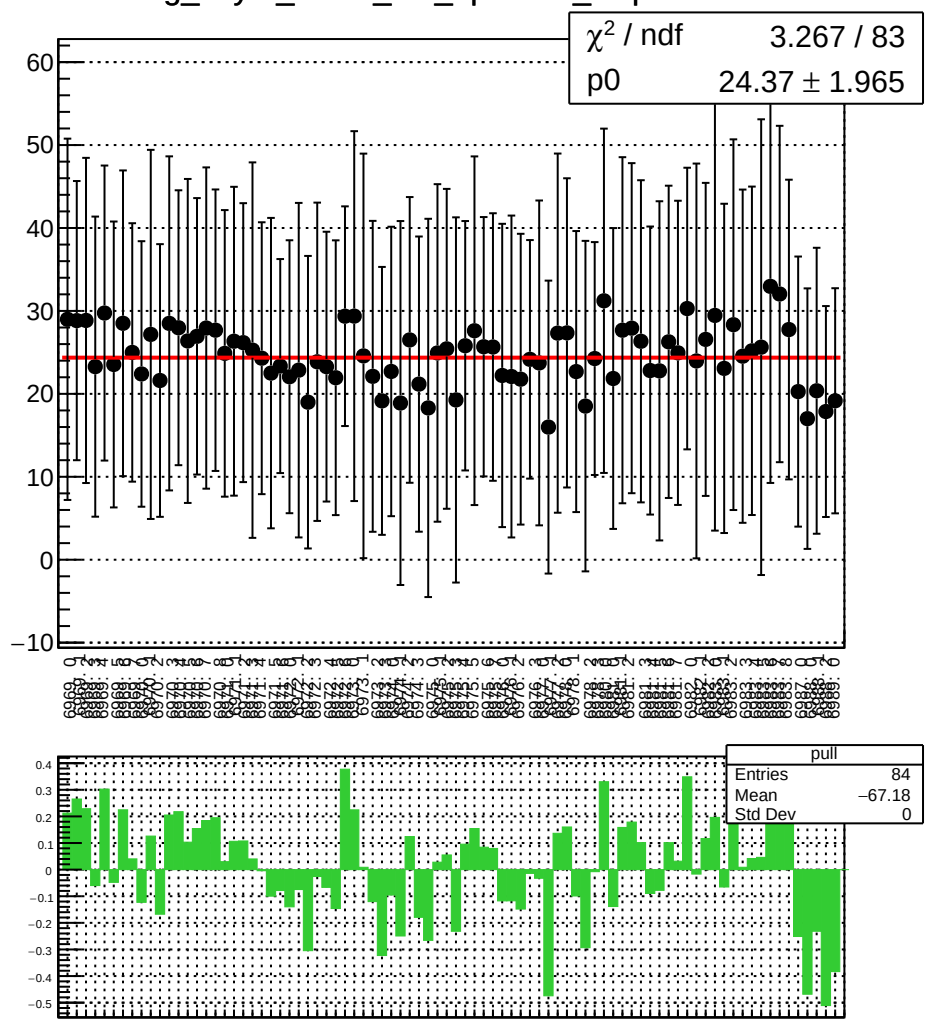

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.904 / 83
p0 29.59 ± 1.081
pull
Entries 84
Mean −412.9
Std Dev 0

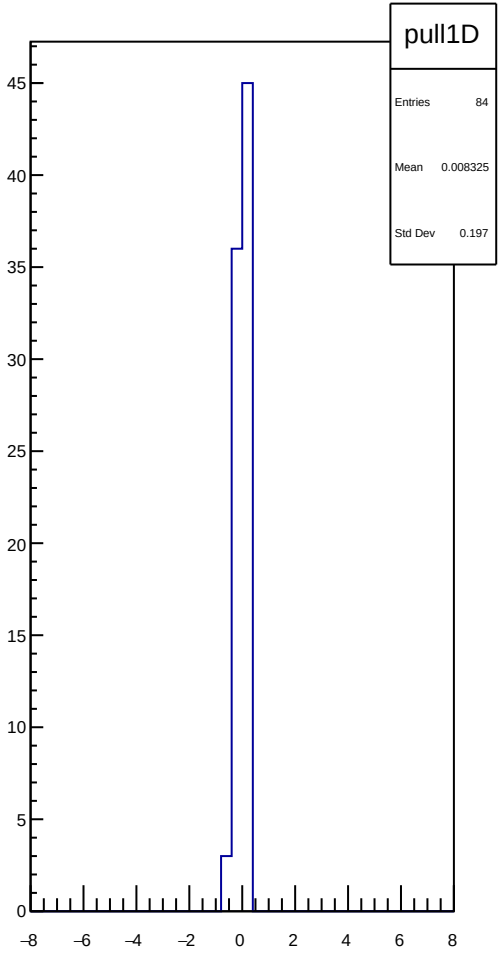

pull1D
Entries 84
Mean −0.0013
Std Dev 0.1505

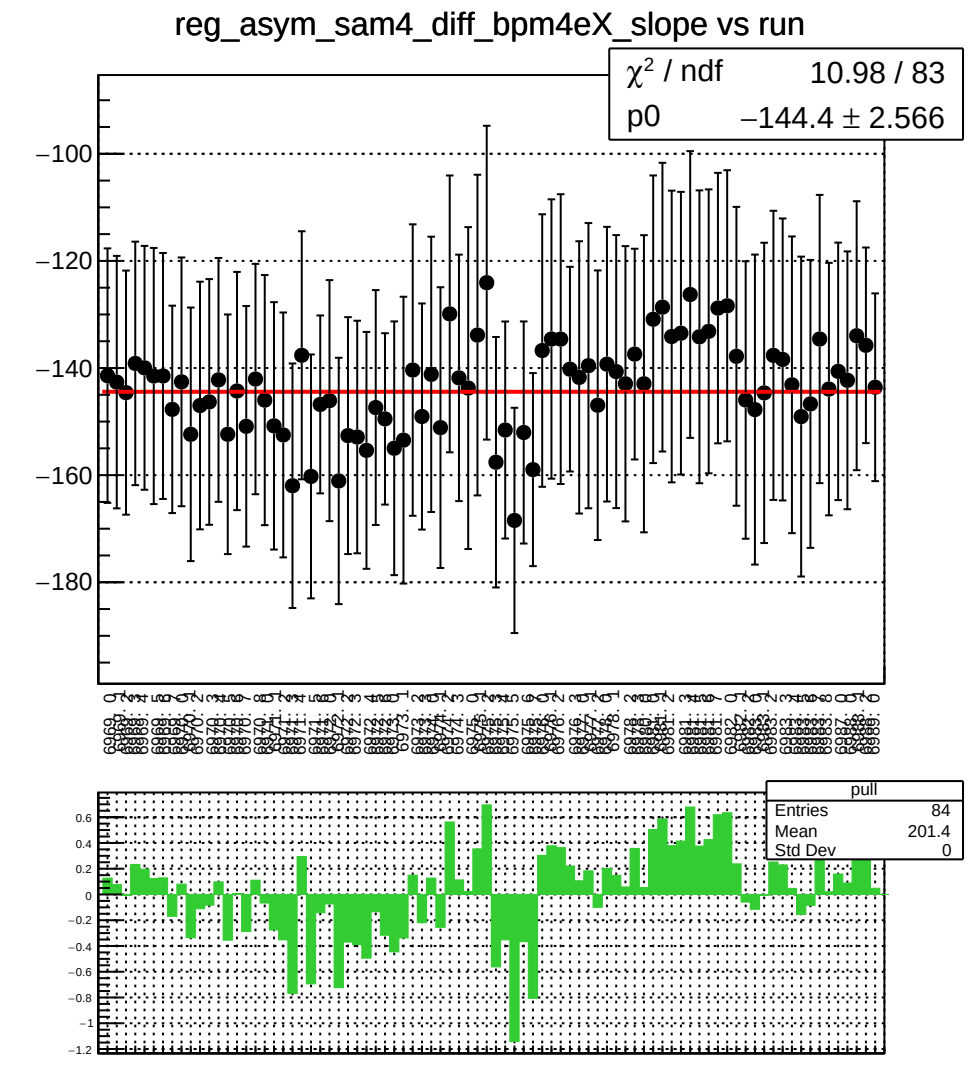

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 9.882 / 83
p0 0.4302 ± 0.04043
pull
Entries 84
Mean 262.7
Std Dev 0
pull1D
Entries 84
Mean −0.01972
Std Dev 0.3424

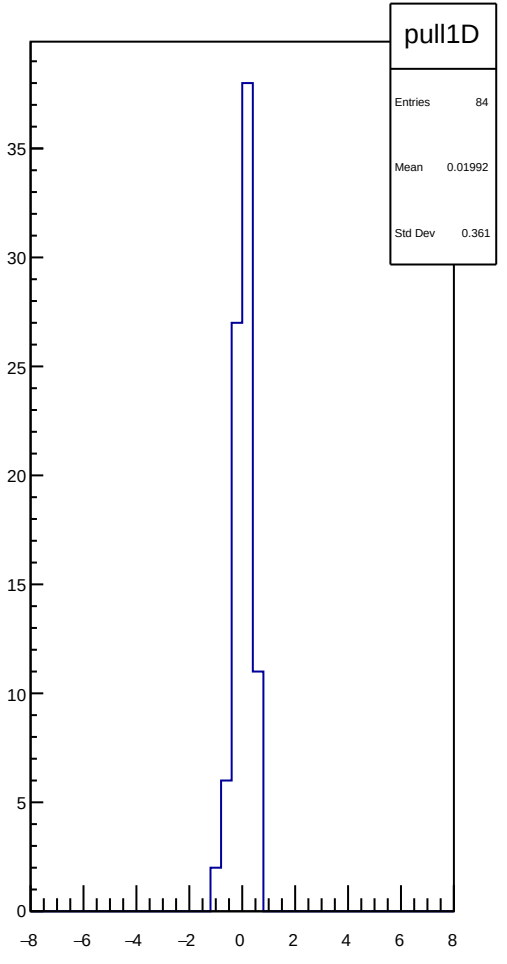

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 9.52 / 83
p0 −49.92 ± 2.796
pull
Entries 84
Mean 176.5
Std Dev 0

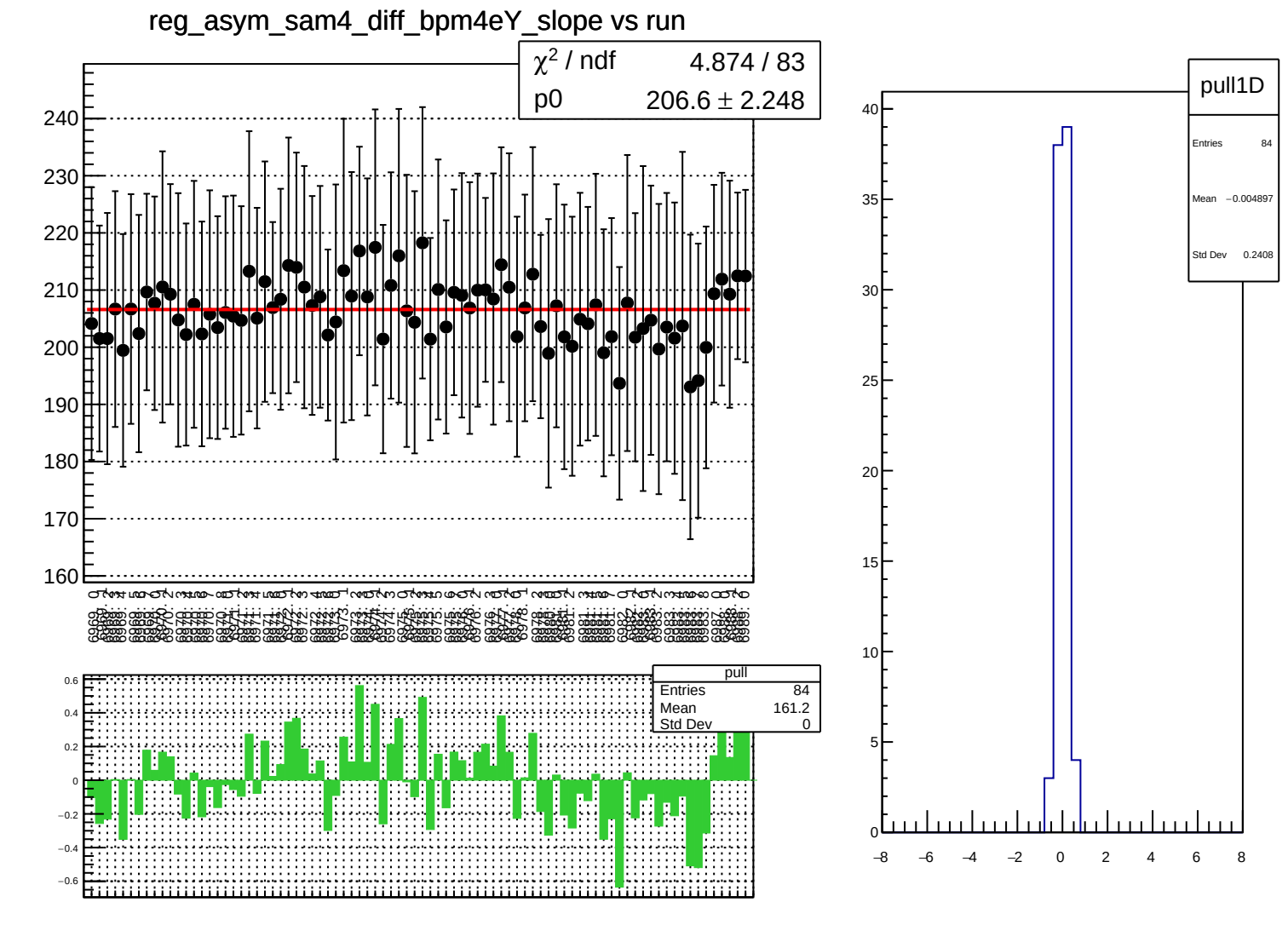

pull1D
Entries 84
Mean −0.02062
Std Dev 0.336

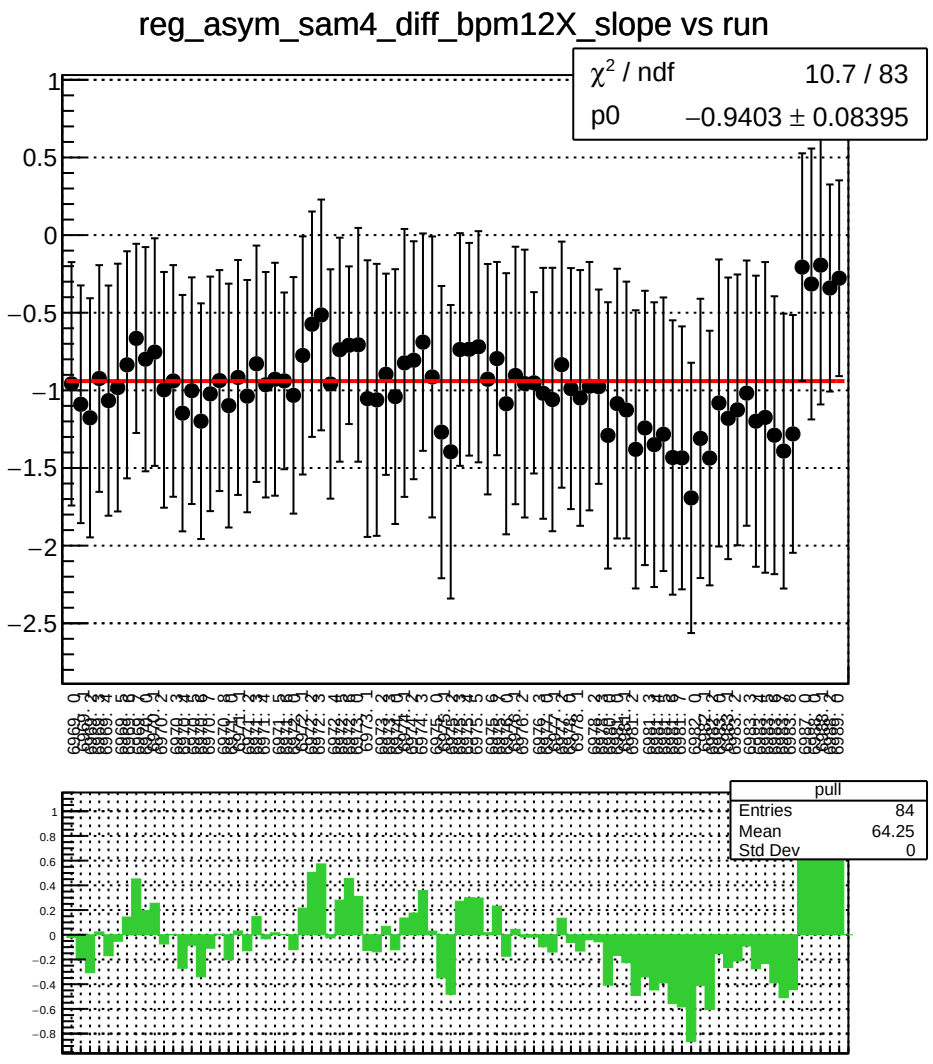

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 3.267 / 83
p0 24.37 ± 1.965
pull
Entries 84
Mean −67.18
Std Dev 0

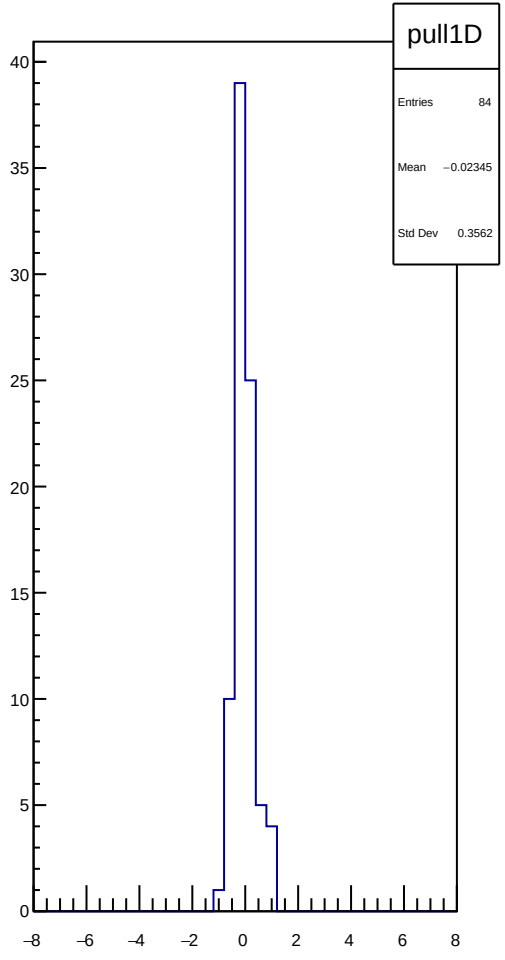

pull1D
Entries 84
Mean 0.008325
Std Dev 0.197

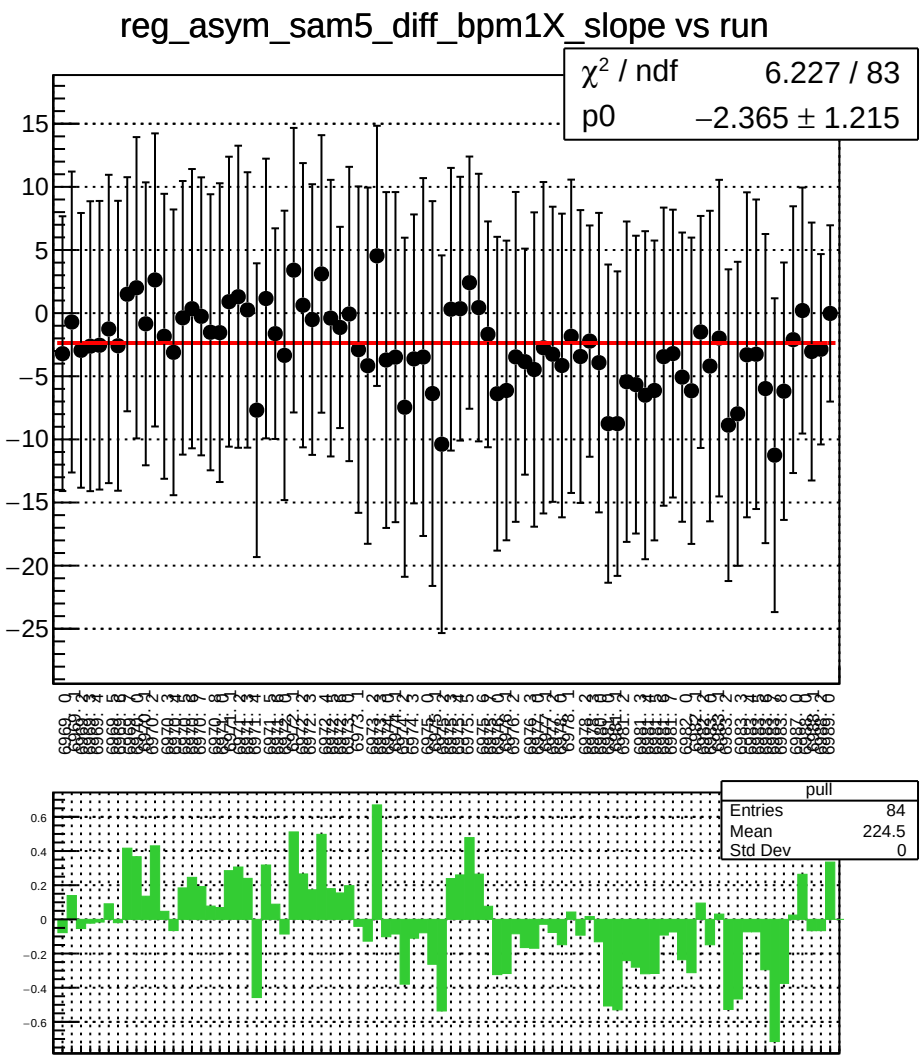

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 10.98 / 83
p0 −144.4 ± 2.566
−100
−120
−140
−160
−180
pull
Entries 84
Mean 201.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

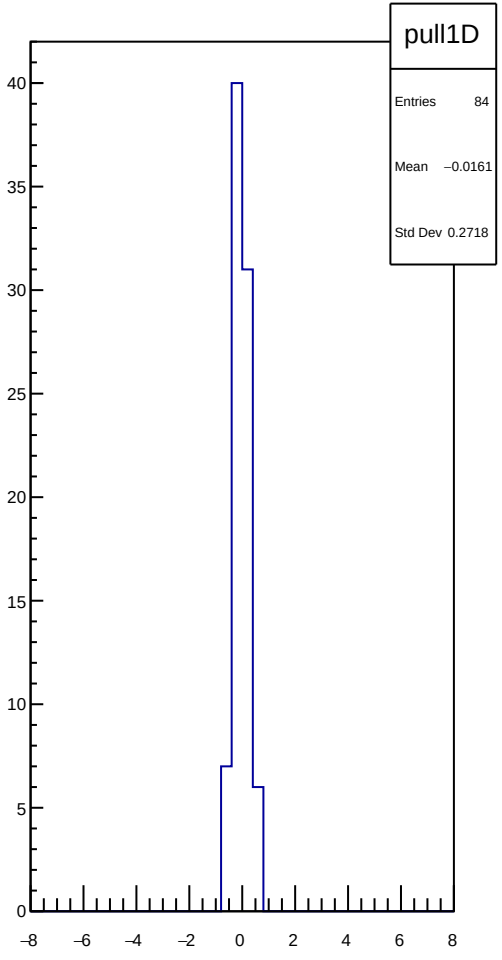

pull1D
Entries 84
Mean 0.01992
Std Dev 0.361
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

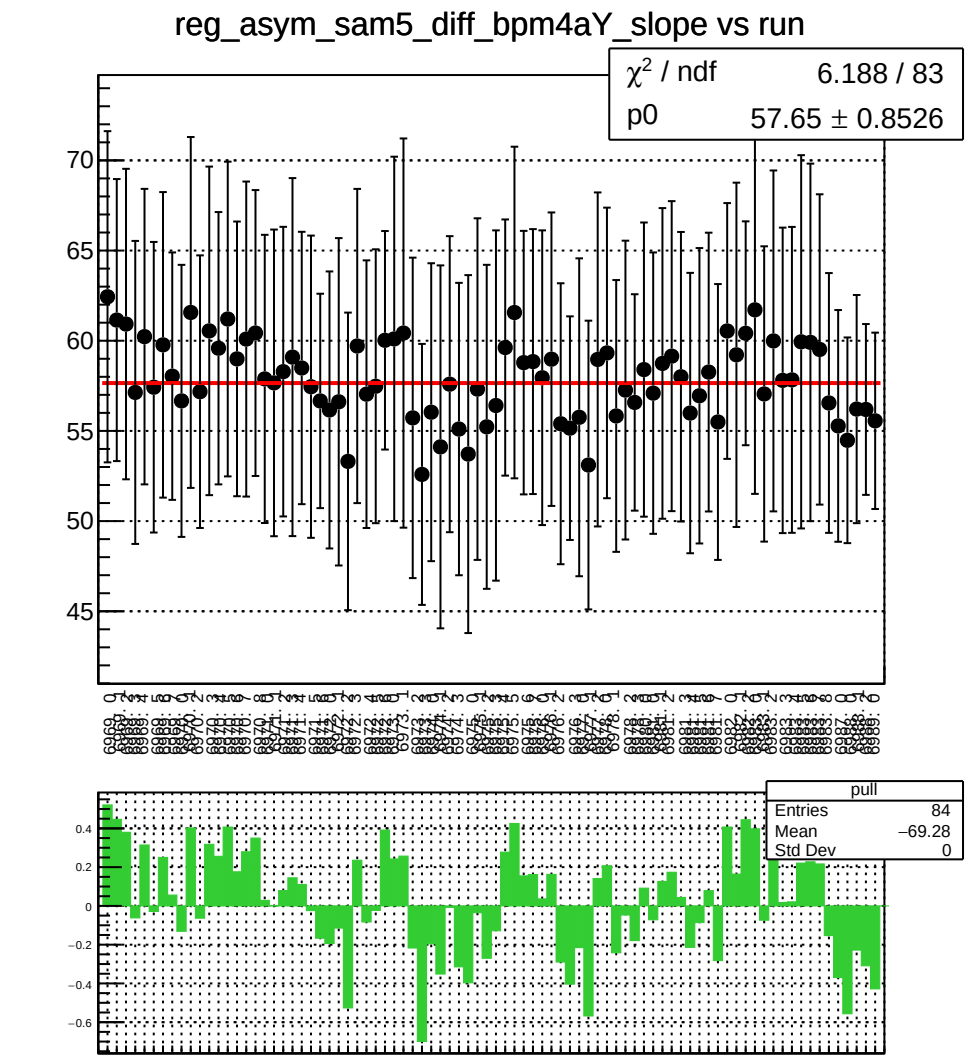

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 4.874 / 83
p0 206.6 ± 2.248
pull
Entries 84
Mean 161.2
Std Dev 0
pull1D
Entries 84
Mean −0.004897
Std Dev 0.2408

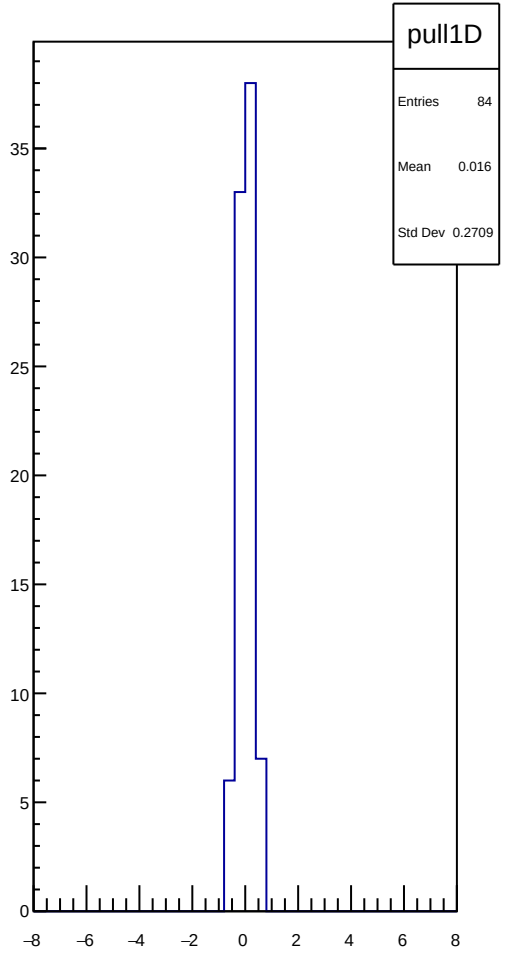

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 10.7 / 83
p0 −0.9403 ± 0.08395
pull
Entries 84
Mean 64.25
Std Dev 0

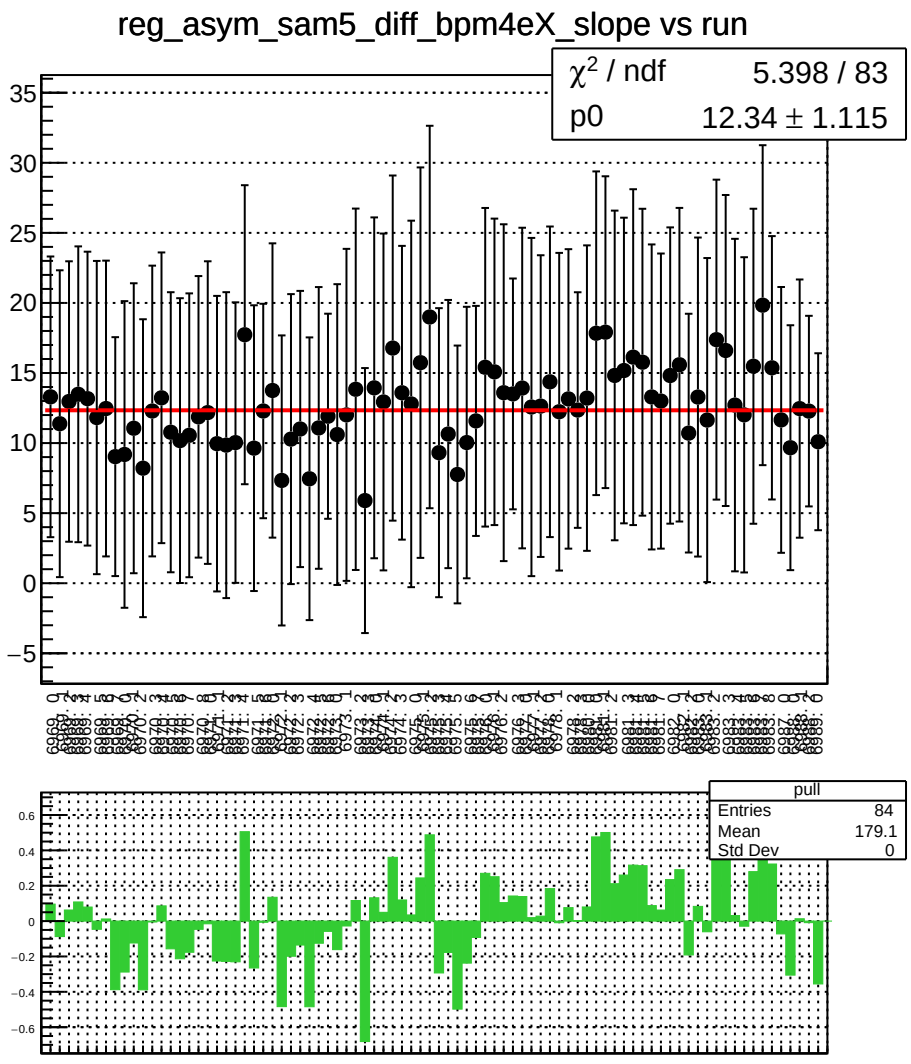

pull1D
Entries 84
Mean −0.02345
Std Dev 0.3562

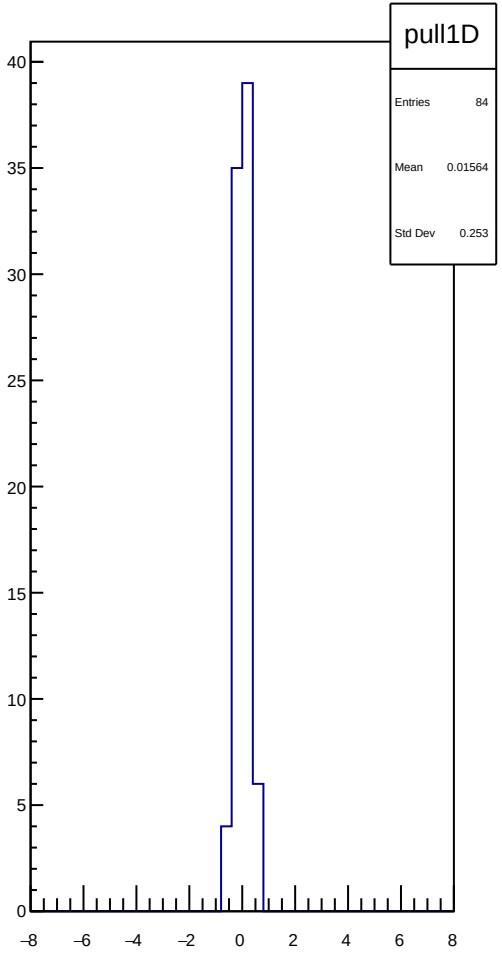

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 6.227 / 83
p0 −2.365 ± 1.215
pull
Entries 84
Mean 224.5
Std Dev 0

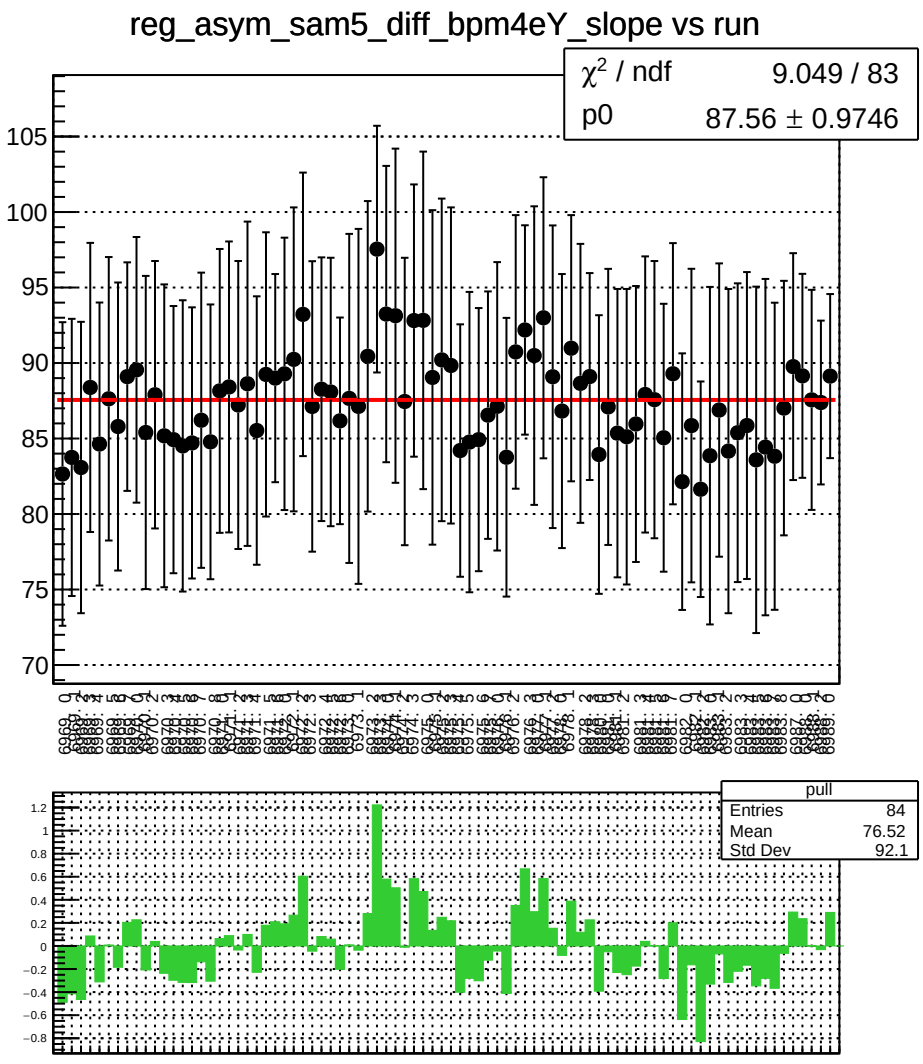

pull1D
Entries 84
Mean −0.0161
Std Dev 0.2718

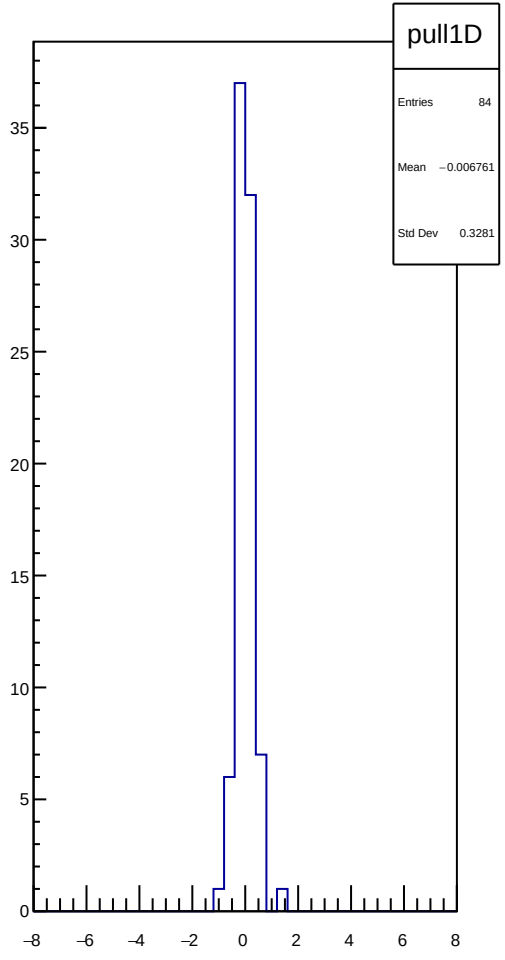

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 6.188 / 83
p0 57.65 ± 0.8526
70
65
60
55
50
45
pull
Entries 84
Mean −69.28
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

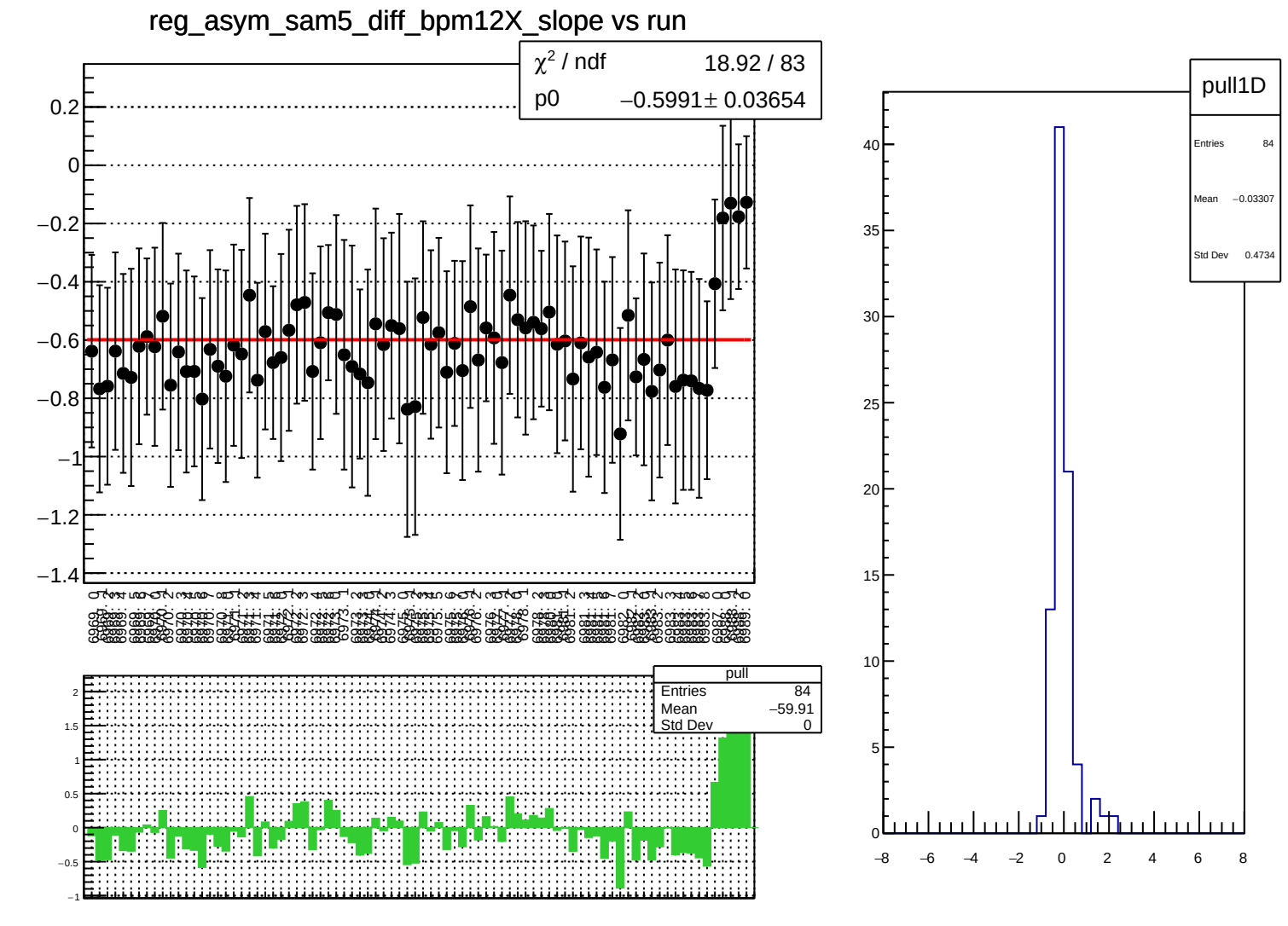

pull1D
Entries 84
Mean 0.016
Std Dev 0.2709
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

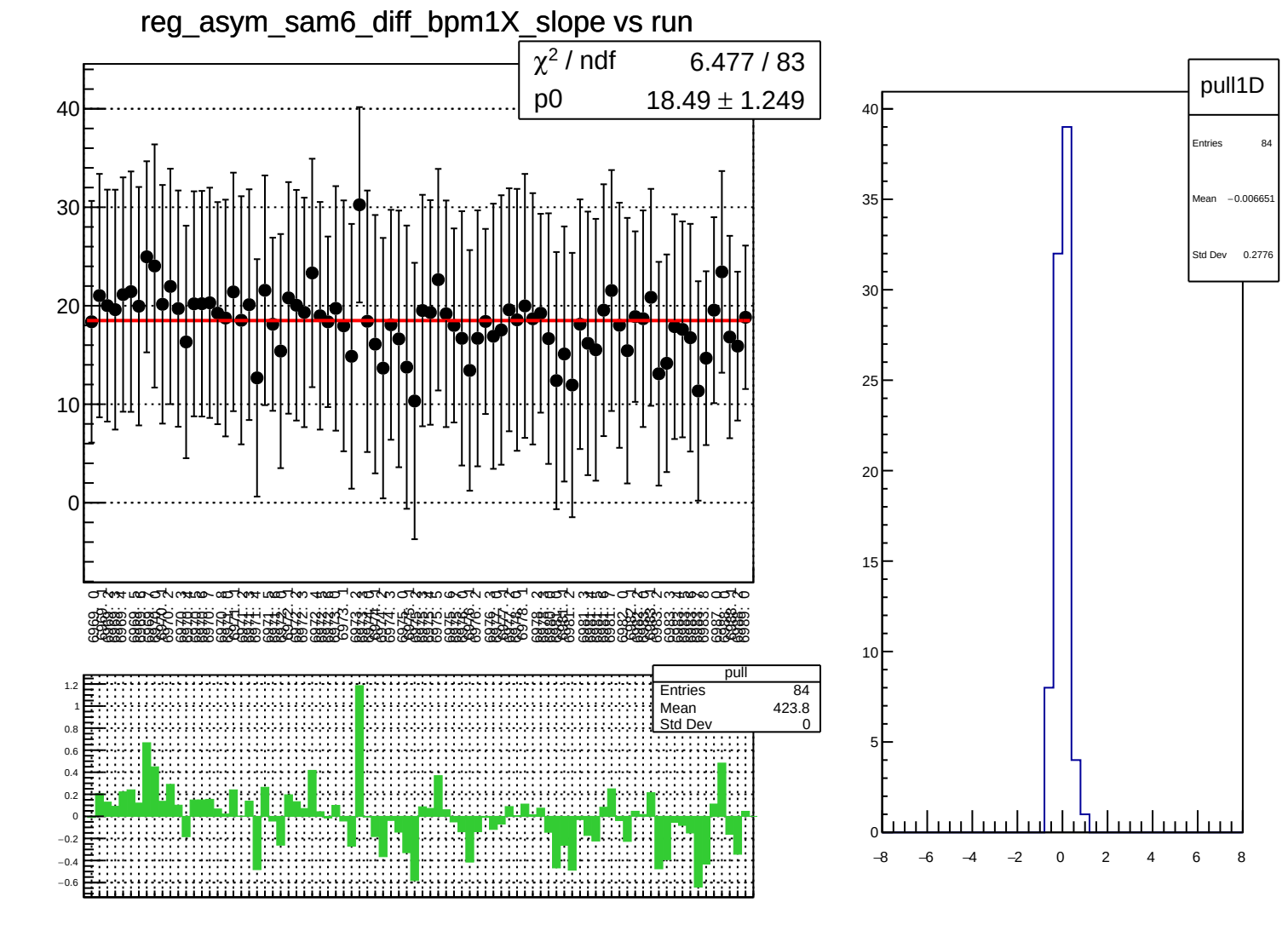

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 5.398 / 83
p0 12.34 ± 1.115
pull
Entries 84
Mean 179.1
Std Dev 0

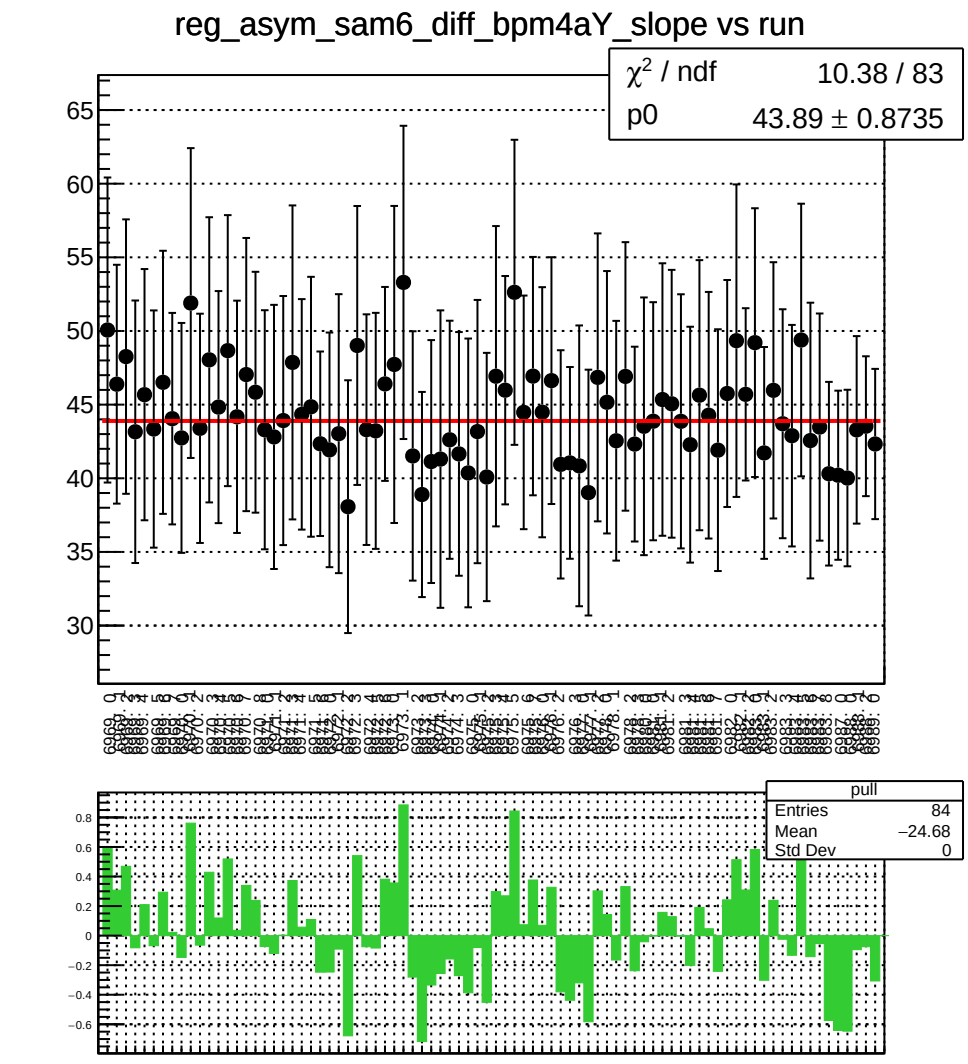

pull1D
Entries 84
Mean 0.01564
Std Dev 0.253

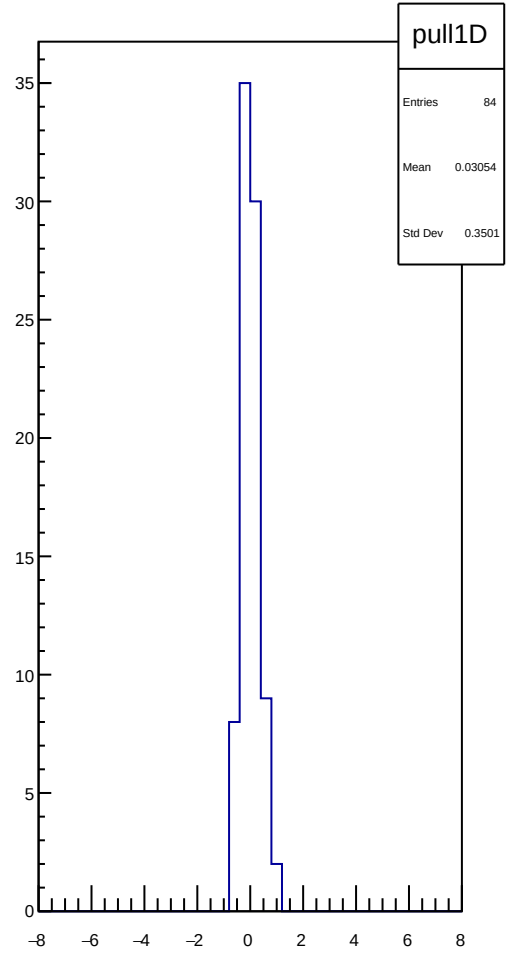

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 9.049 / 83
p0 87.56 ± 0.9746
105
100
95
90
85
80
75
70
pull
Entries 84
Mean 76.52
Std Dev 92.1
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

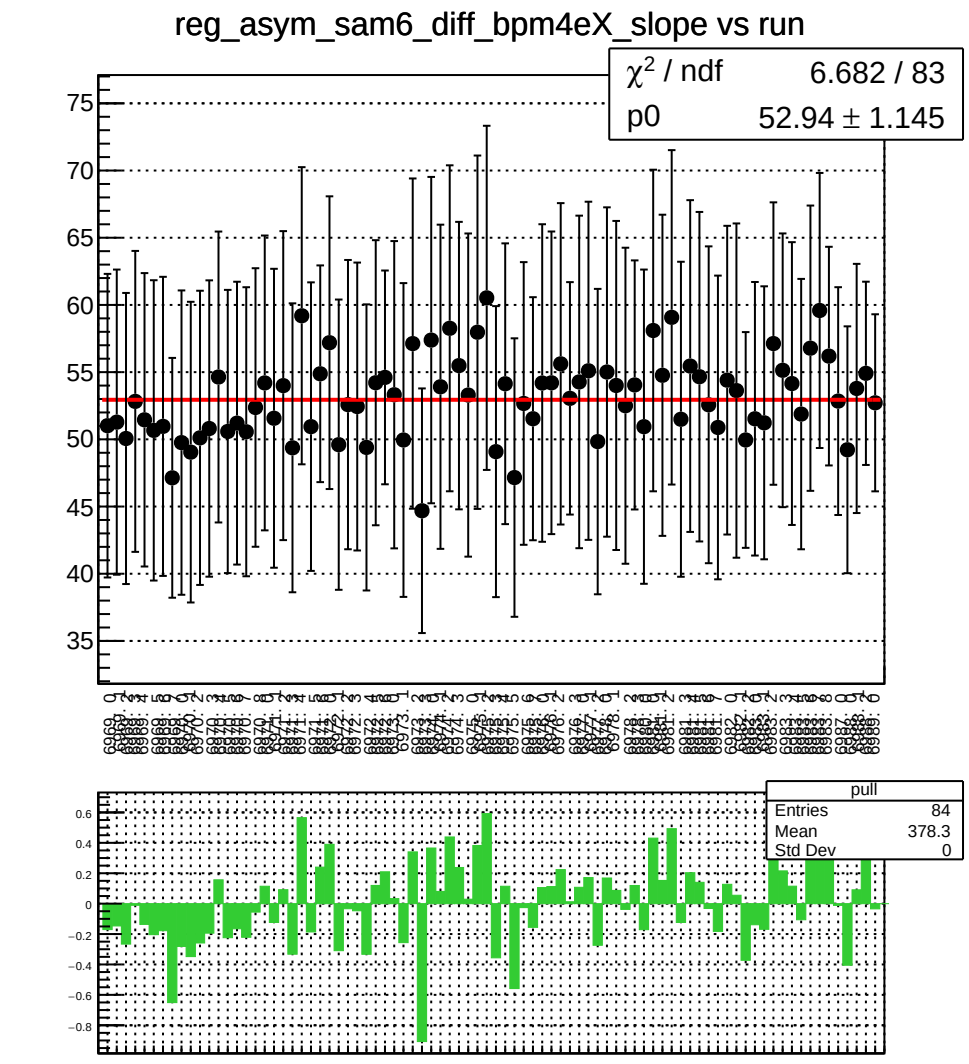

pull1D
Entries 84
Mean −0.006761
Std Dev 0.3281
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

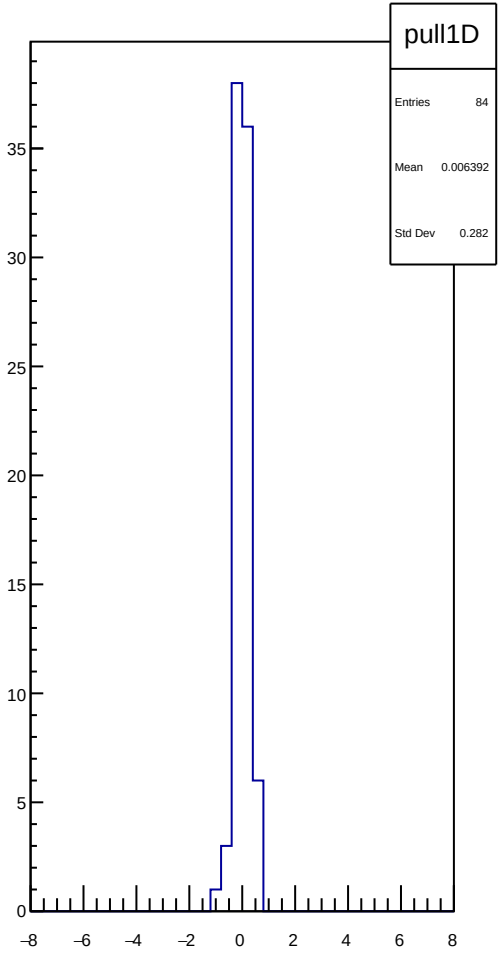

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 18.92 / 83
p0 −0.5991 ± 0.03654
pull
Entries 84
Mean −59.91
Std Dev 0
pull1D
Entries 84
Mean −0.03307
Std Dev 0.4734

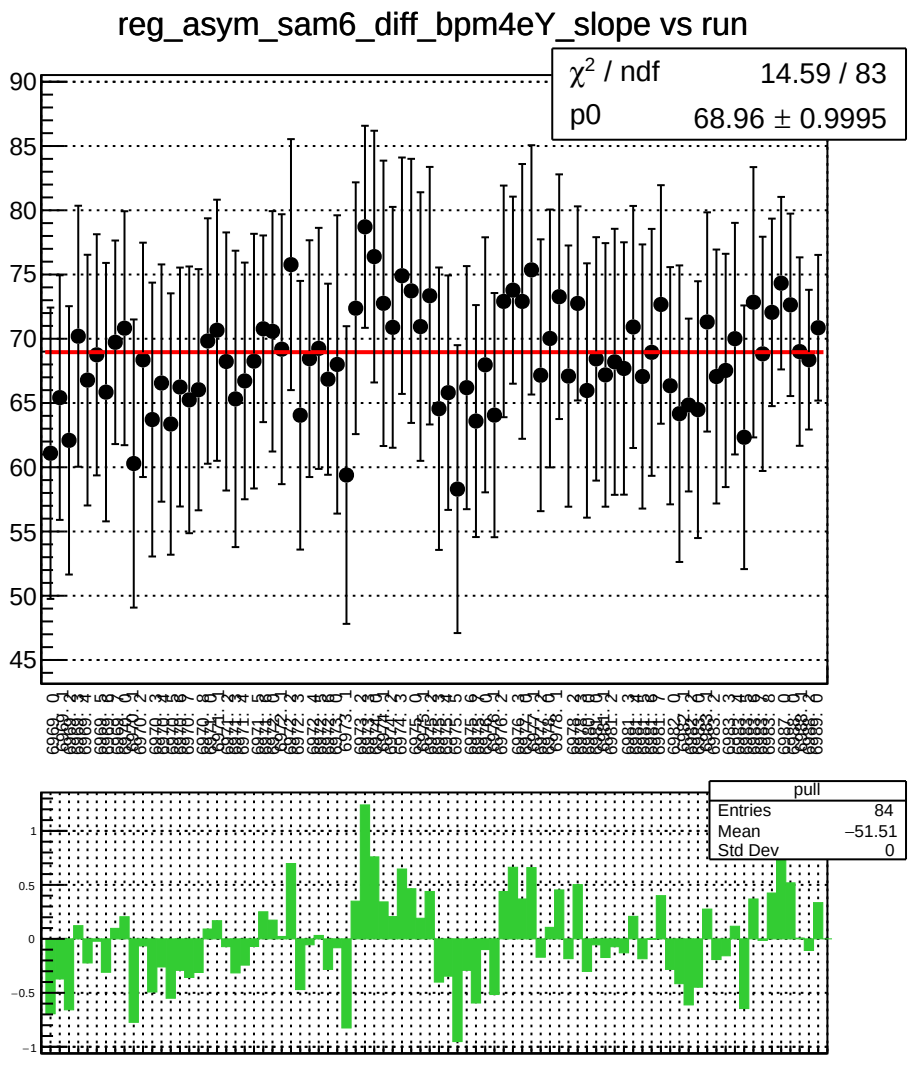

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 6.477 / 83
p0 18.49 ± 1.249
pull
Entries 84
Mean 423.8
Std Dev 0
pull1D
Entries 84
Mean −0.006651
Std Dev 0.2776

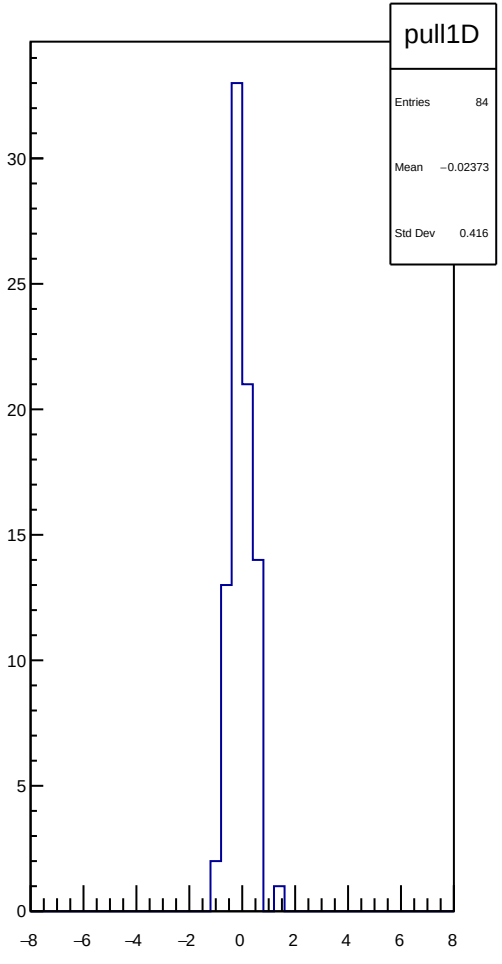

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 10.38 / 83
p0 43.89 ± 0.8735
pull
Entries 84
Mean −24.68
Std Dev 0

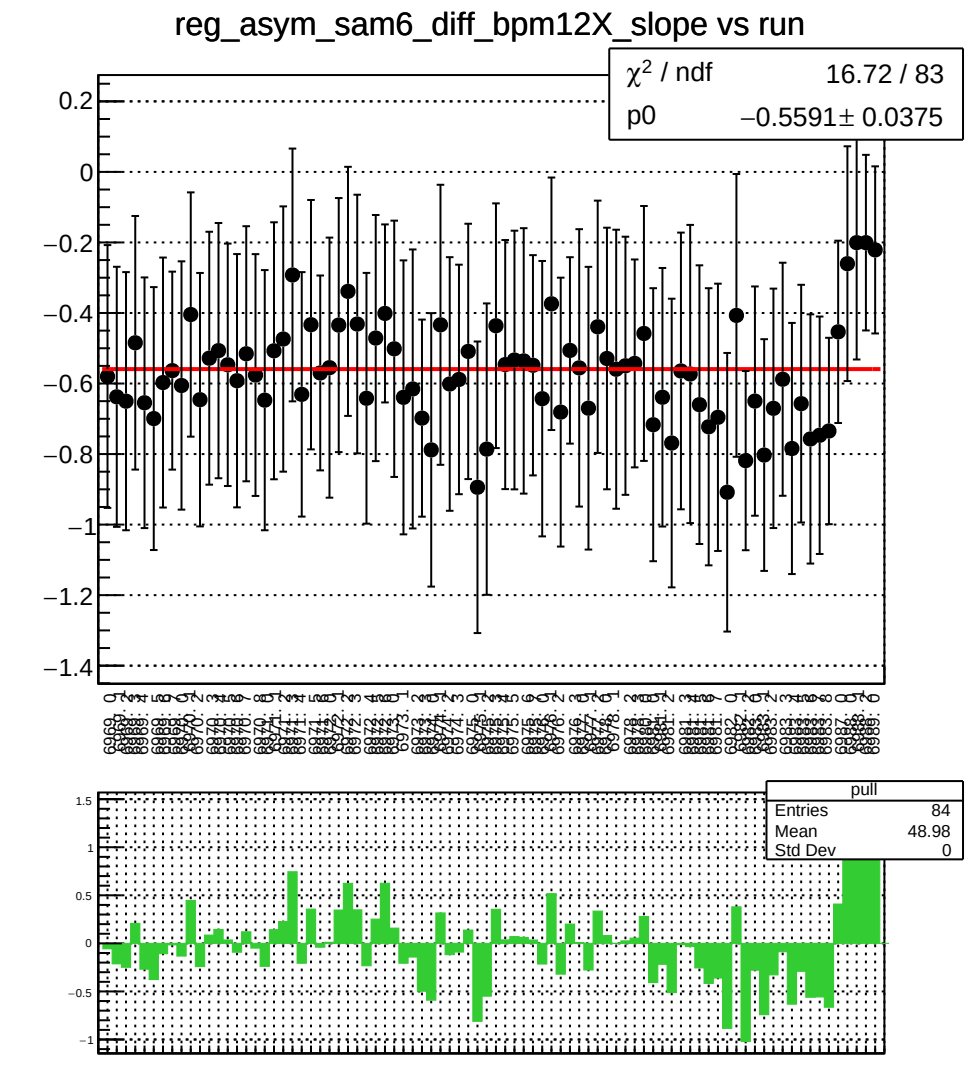

pull1D
Entries 84
Mean 0.03054
Std Dev 0.3501

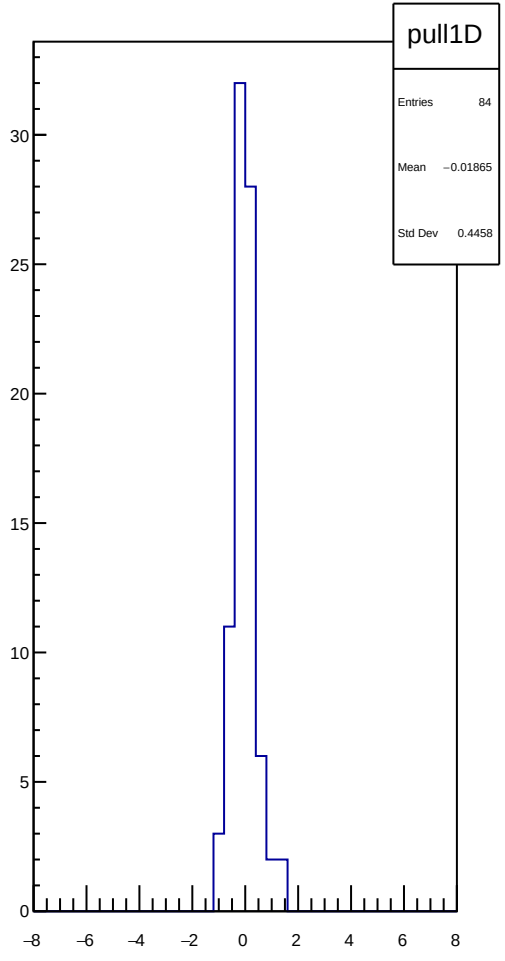

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 6.682 / 83
p0 52.94 ± 1.145
pull
Entries 84
Mean 378.3
Std Dev 0

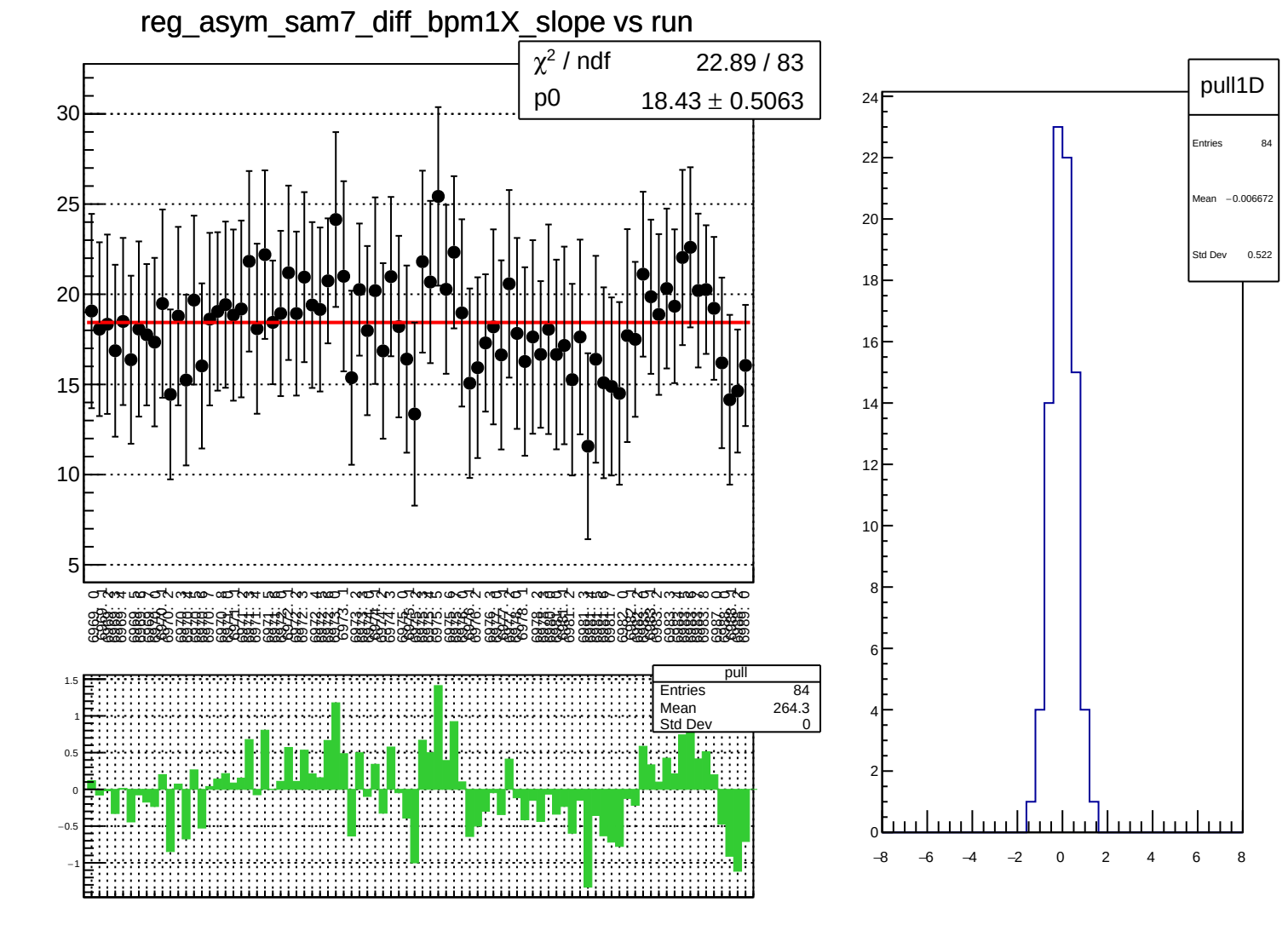

pull1D
Entries 84
Mean 0.006392
Std Dev 0.282

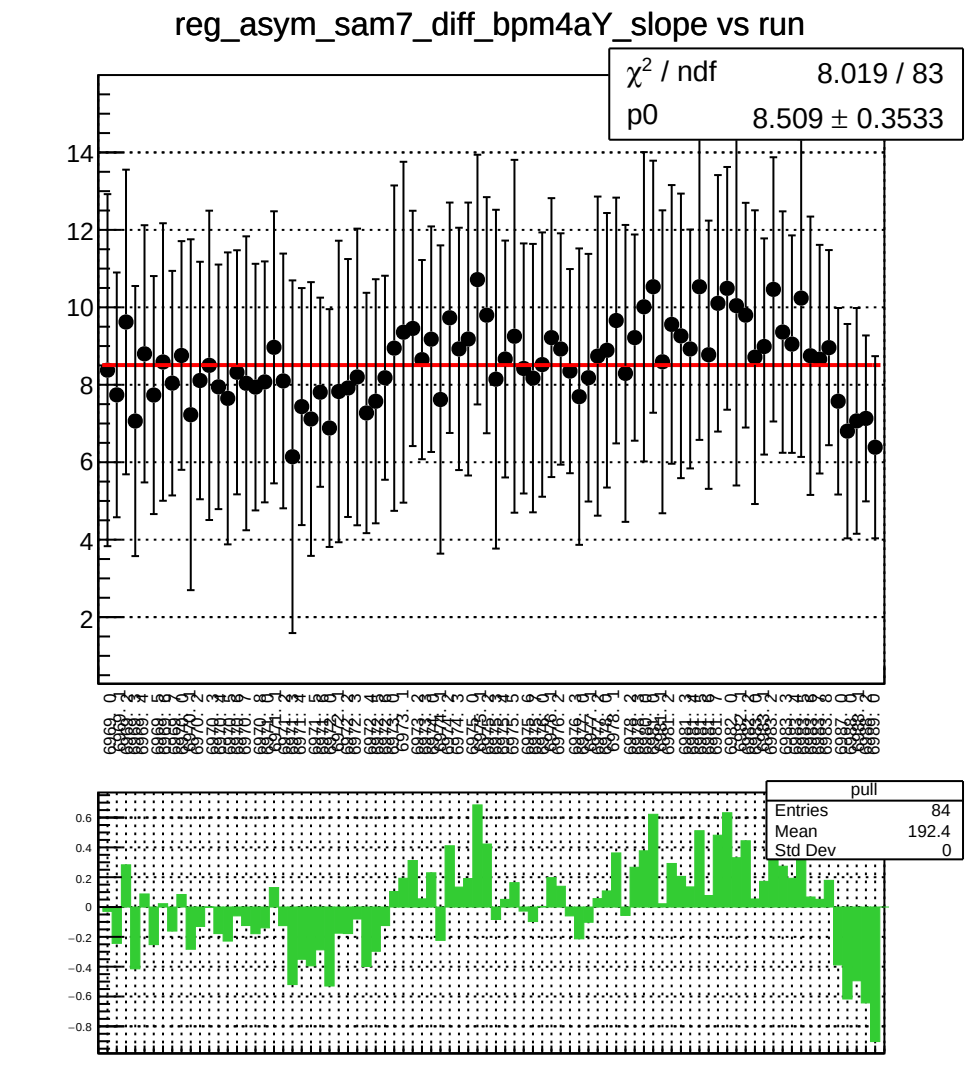

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 14.59 / 83
p0 68.96 ± 0.9995
pull
Entries 84
Mean −51.51
Std Dev 0

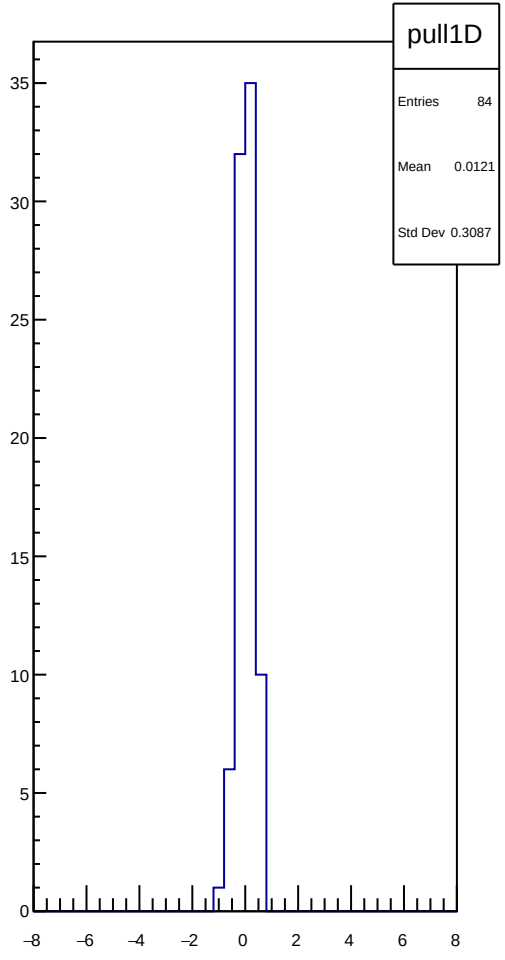

pull1D
Entries 84
Mean −0.02373
Std Dev 0.416

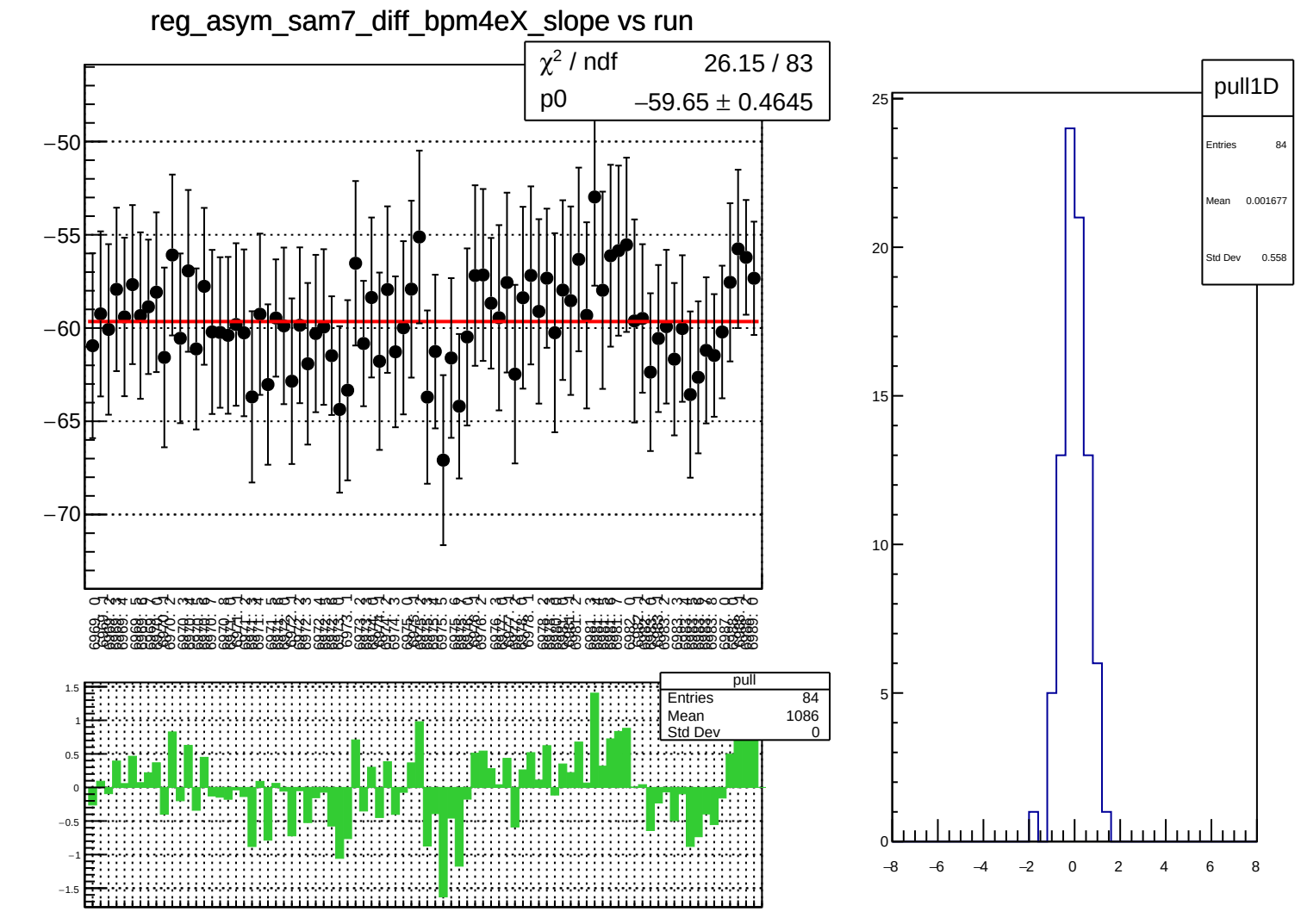

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 16.72 / 83
p0 −0.5591± 0.0375
pull
Entries 84
Mean 48.98
Std Dev 0

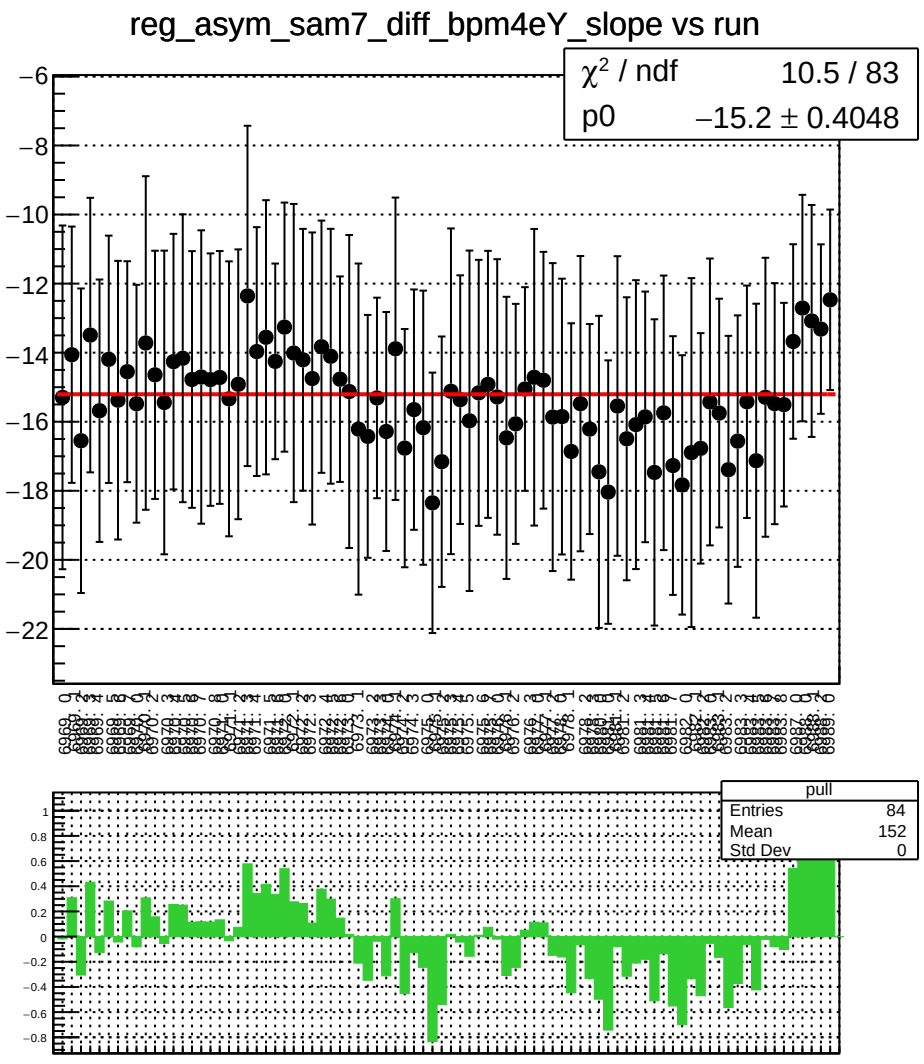

pull1D
Entries 84
Mean −0.01865
Std Dev 0.4458

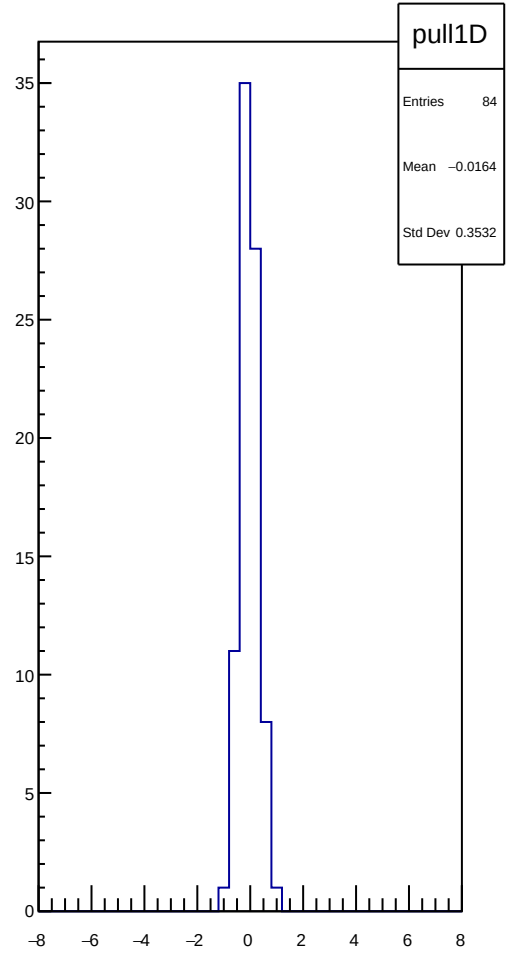

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 22.89 / 83
p0 18.43 ± 0.5063
pull
Entries 84
Mean 264.3
Std Dev 0
pull1D
Entries 84
Mean −0.006672
Std Dev 0.522

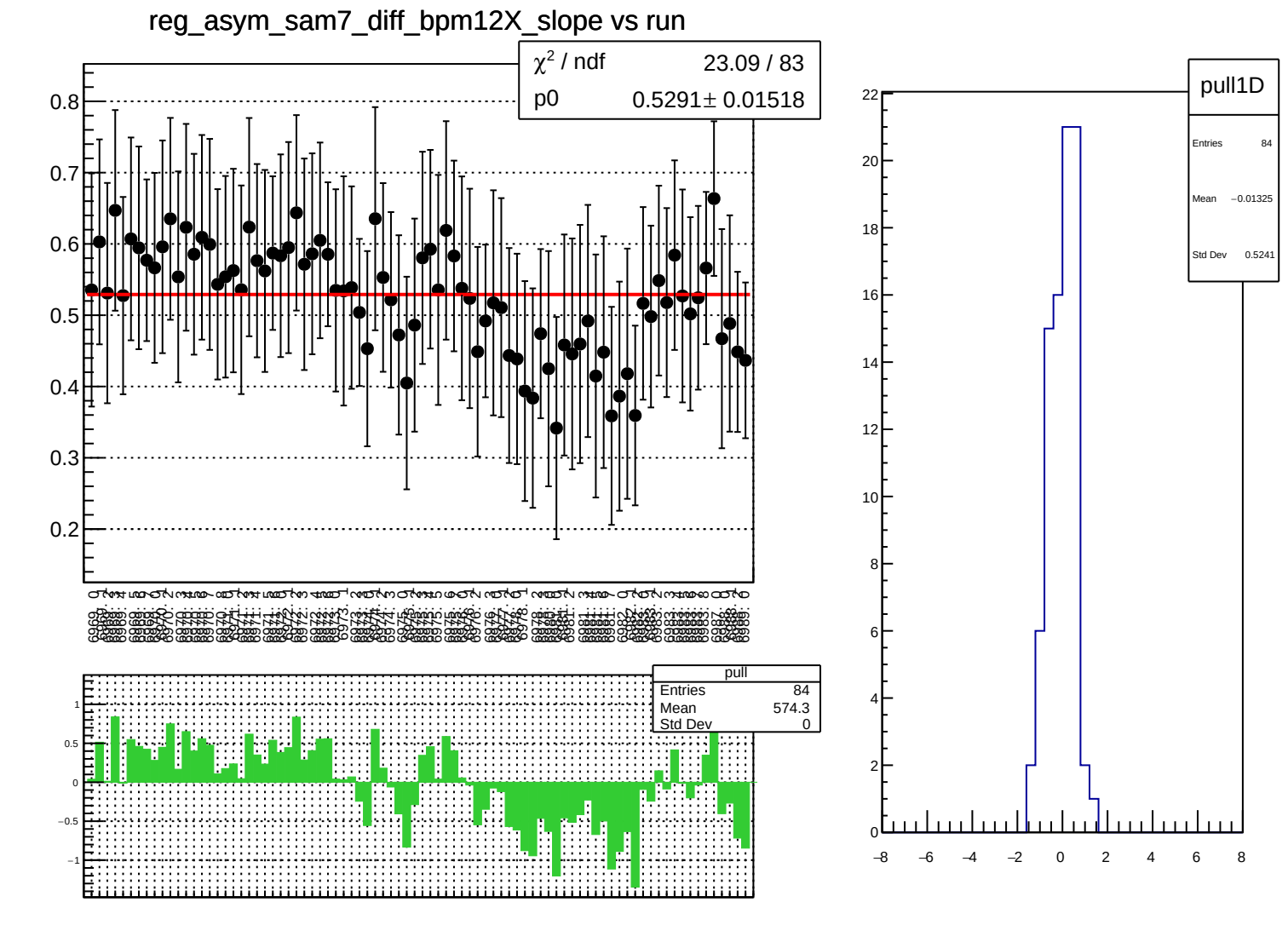

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 8.019 / 83
p0 8.509 ± 0.3533
pull
Entries 84
Mean 192.4
Std Dev 0

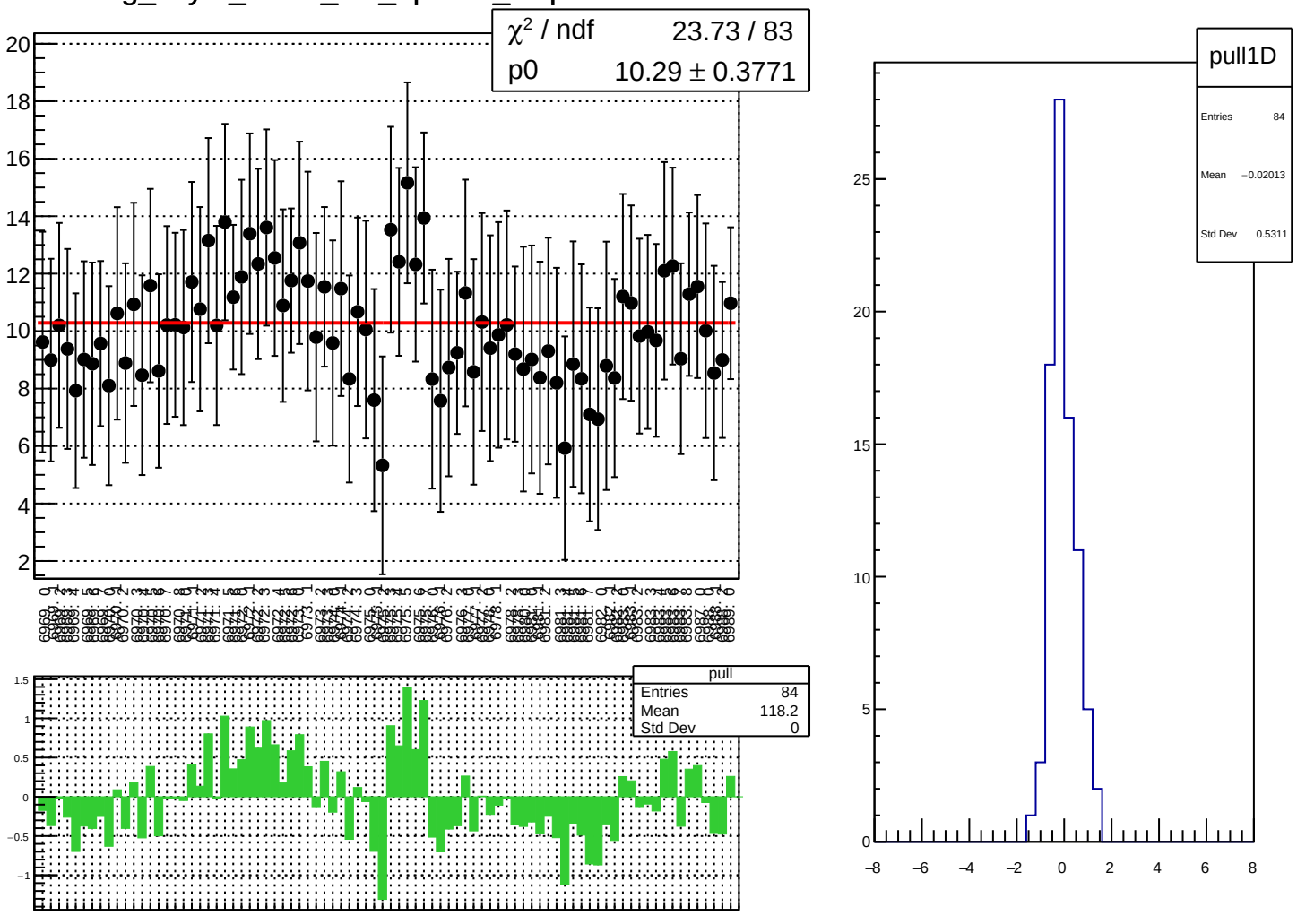

pull1D
Entries 84
Mean 0.0121
Std Dev 0.3087

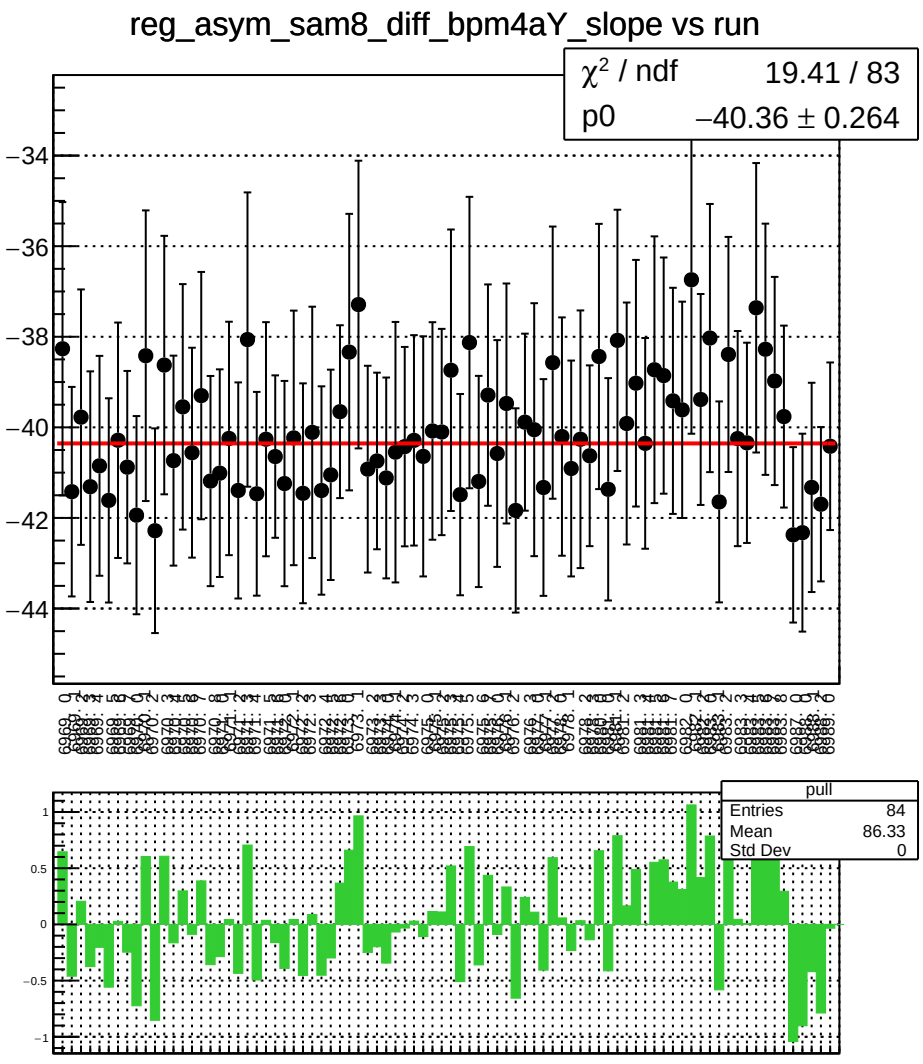

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 26.15 / 83
p0 −59.65 ± 0.4645
pull
Entries 84
Mean 1086
Std Dev 0
pull1D
Entries 84
Mean 0.001677
Std Dev 0.558

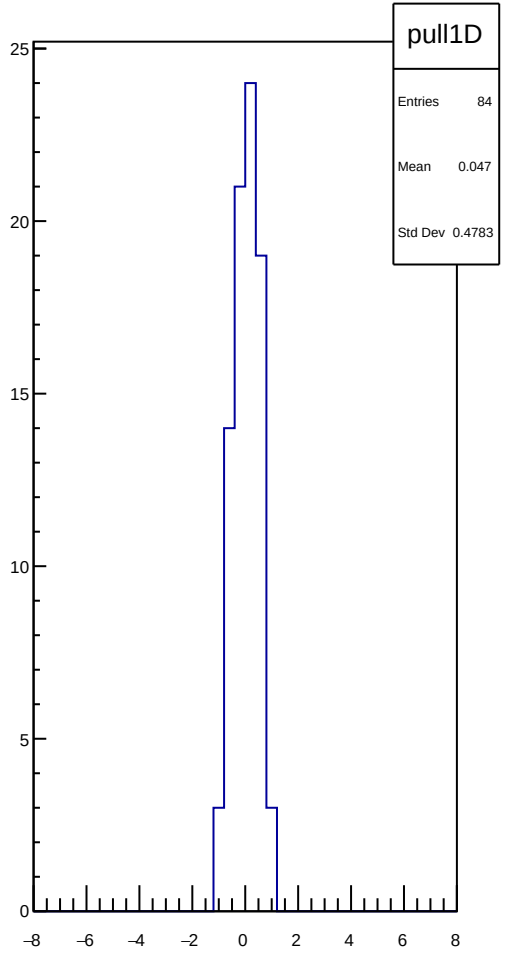

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 10.5 / 83
p0 −15.2 ± 0.4048
pull
Entries 84
Mean 152
Std Dev 0

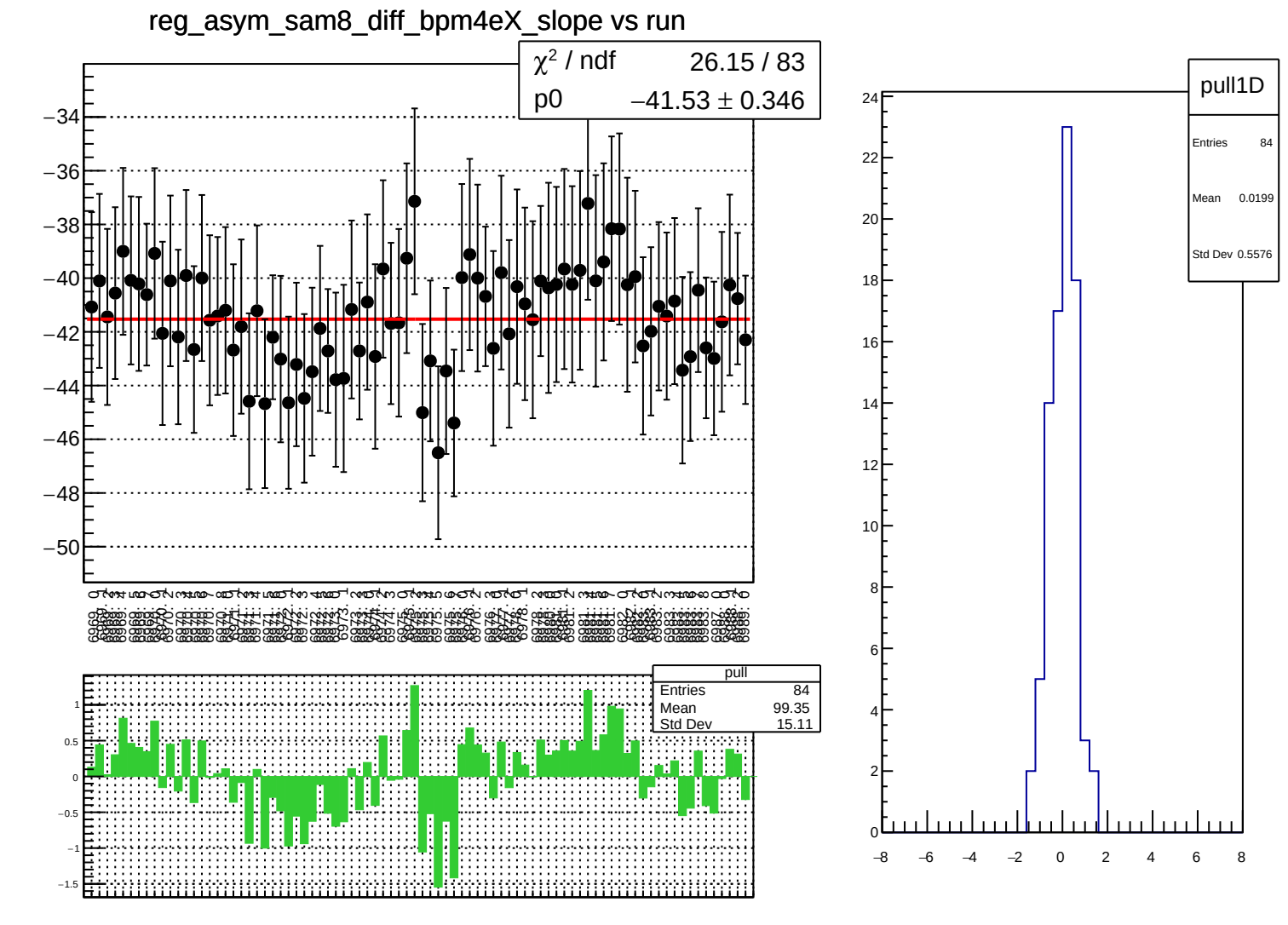

pull1D
Entries 84
Mean −0.0164
Std Dev 0.3532

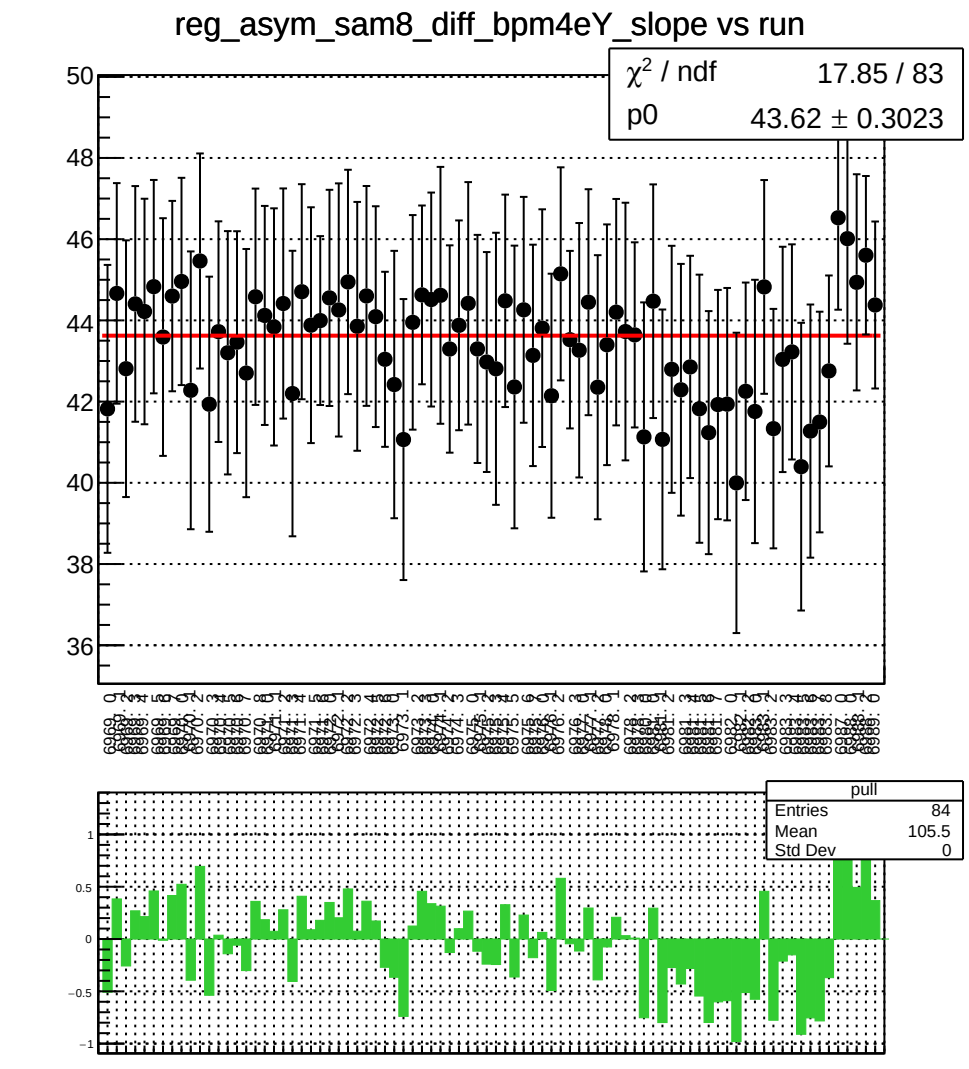

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 23.09 / 83
p0 0.5291± 0.01518
pull
Entries 84
Mean 574.3
Std Dev 0
pull1D
Entries 84
Mean −0.01325
Std Dev 0.5241

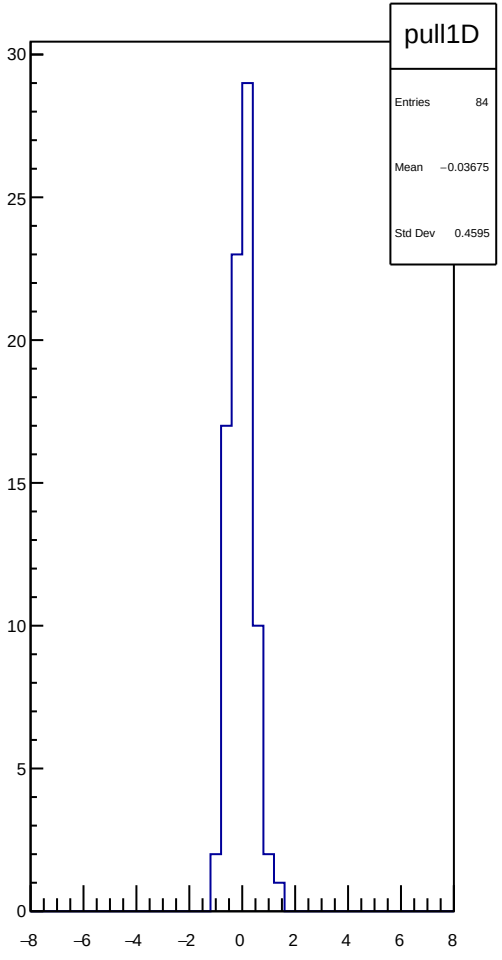

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 23.73 / 83
p0 10.29 ± 0.3771
pull
Entries 84
Mean 118.2
Std Dev 0
pull1D
Entries 84
Mean −0.02013
Std Dev 0.5311

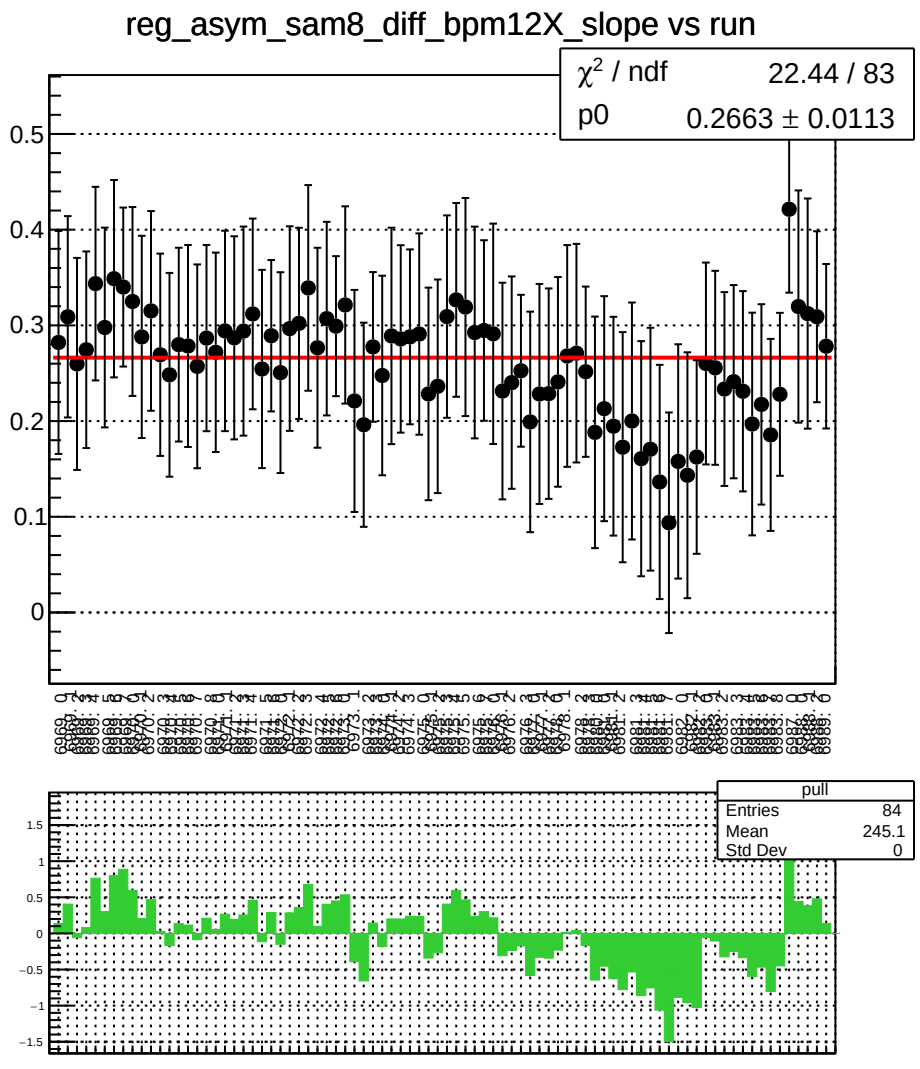

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 19.41 / 83
p0 −40.36 ± 0.264
−34
−36
−38
−40
−42
−44
pull
Entries 84
Mean 86.33
Std Dev 0
1
0.5
0
−0.5
−1

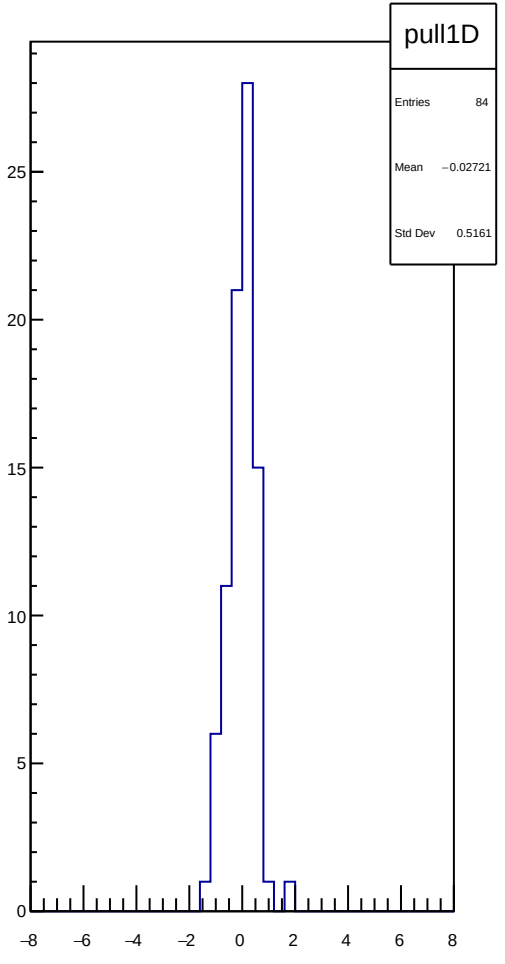

pull1D
Entries 84
Mean 0.047
Std Dev 0.4783
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

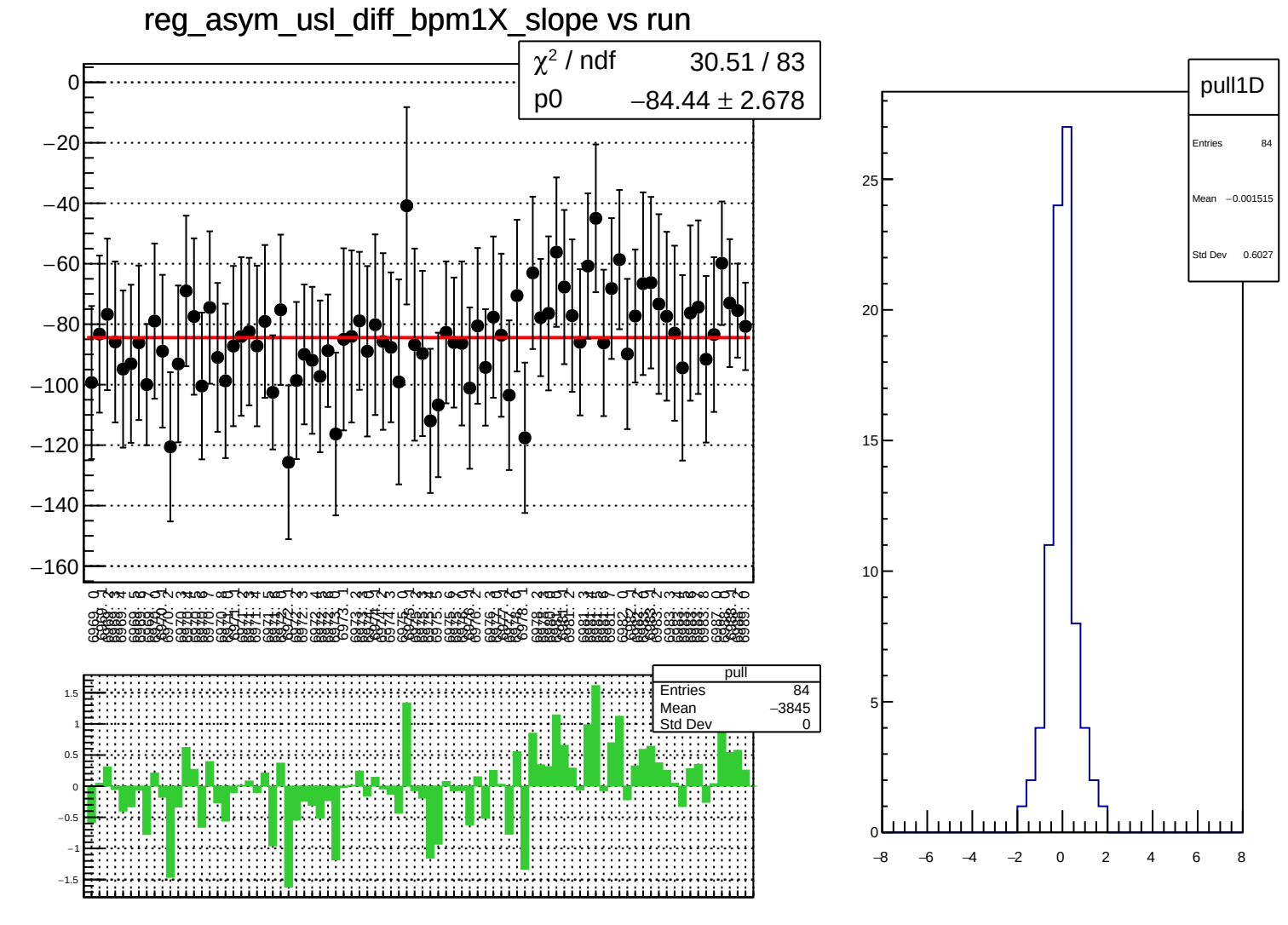

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 26.15 / 83
p0 −41.53 ± 0.346
pull
Entries 84
Mean 99.35
Std Dev 15.11
pull1D
Entries 84
Mean 0.0199
Std Dev 0.5576

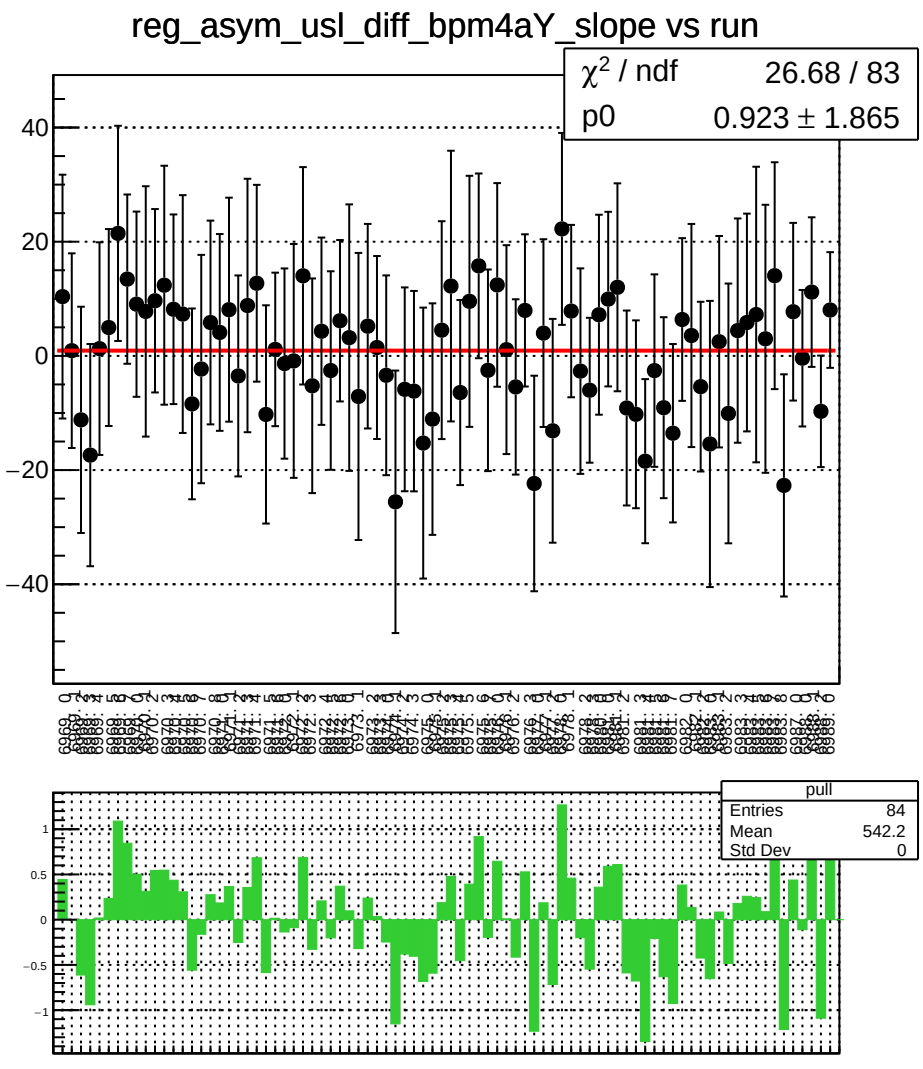

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 17.85 / 83
p0 43.62 ± 0.3023
pull
Entries 84
Mean 105.5
Std Dev 0

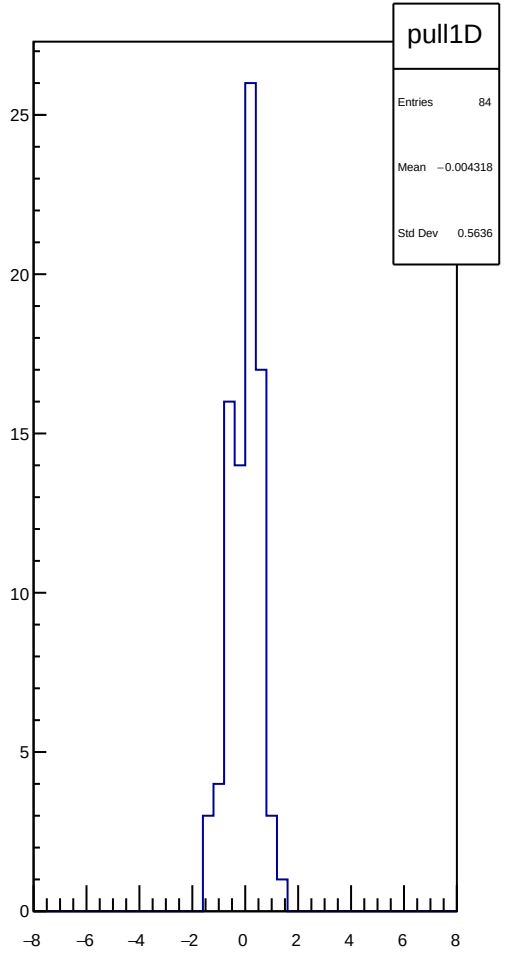

pull1D
Entries 84
Mean −0.03675
Std Dev 0.4595

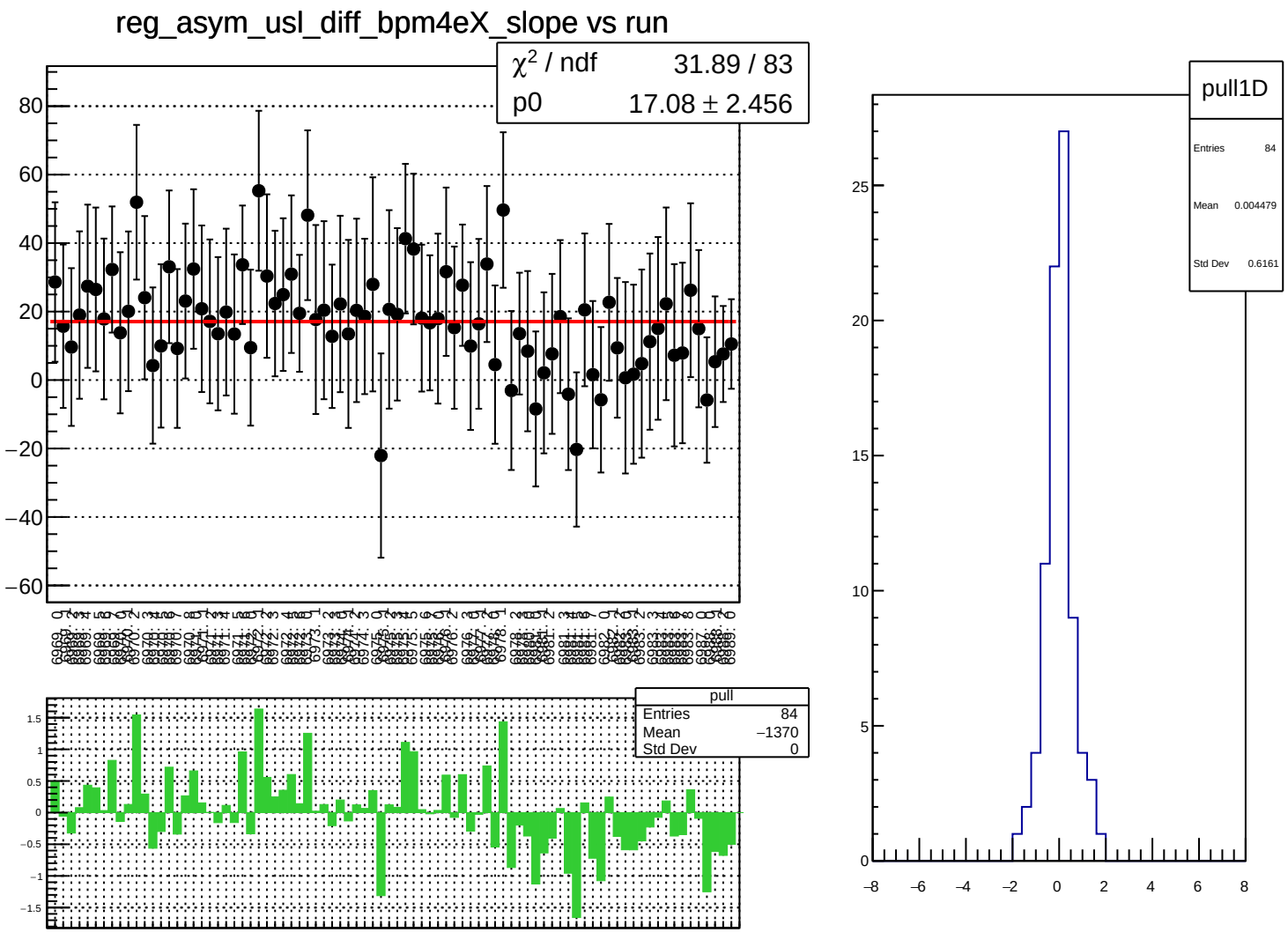

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 22.44 / 83
p0 0.2663 ± 0.0113
pull
Entries 84
Mean 245.1
Std Dev 0

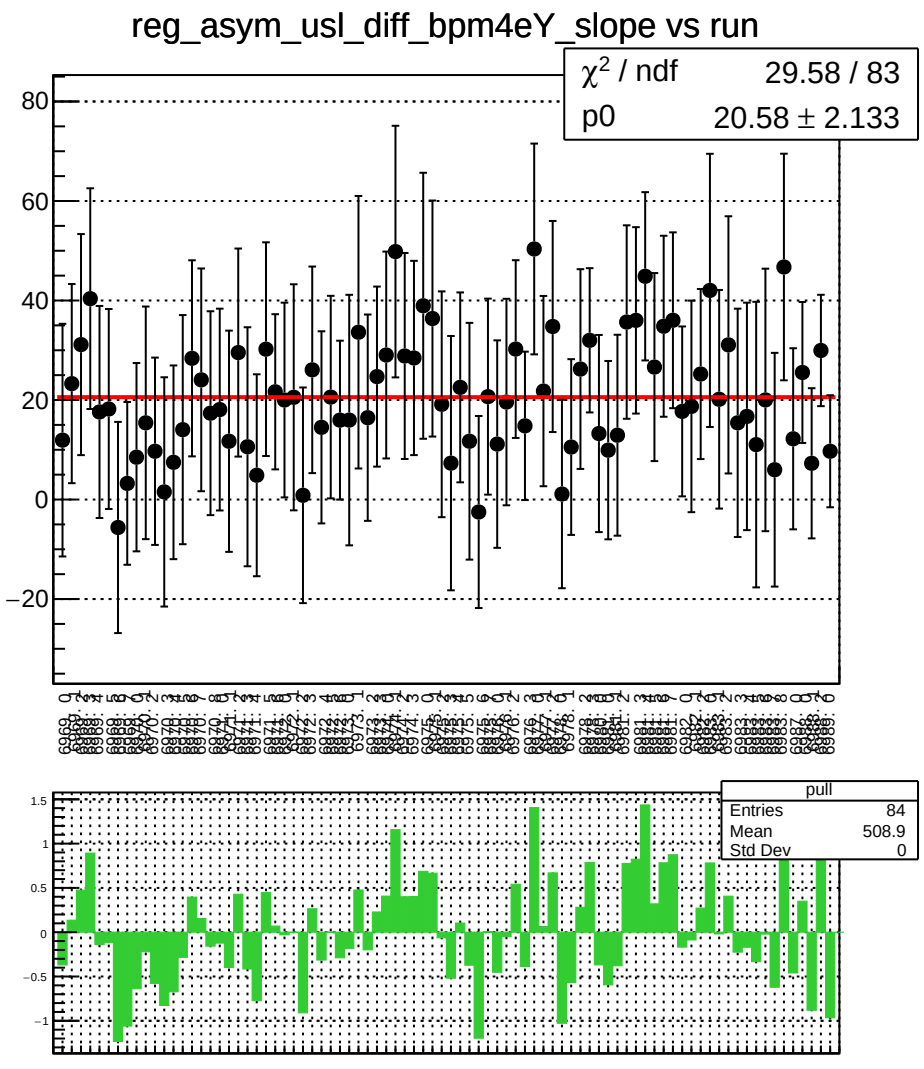

pull1D
Entries 84
Mean −0.02721
Std Dev 0.5161

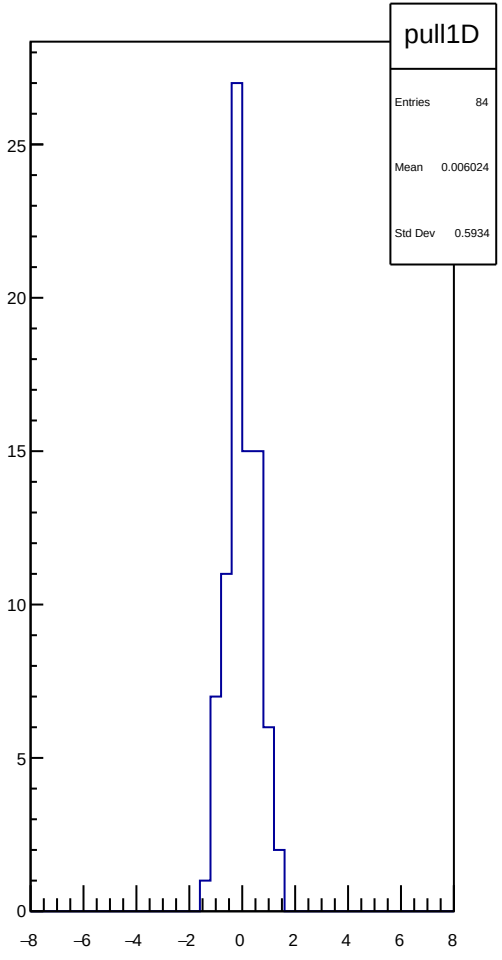

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 30.51 / 83
p0 −84.44 ± 2.678
pull
Entries 84
Mean −3845
Std Dev 0
pull1D
Entries 84
Mean −0.001515
Std Dev 0.6027

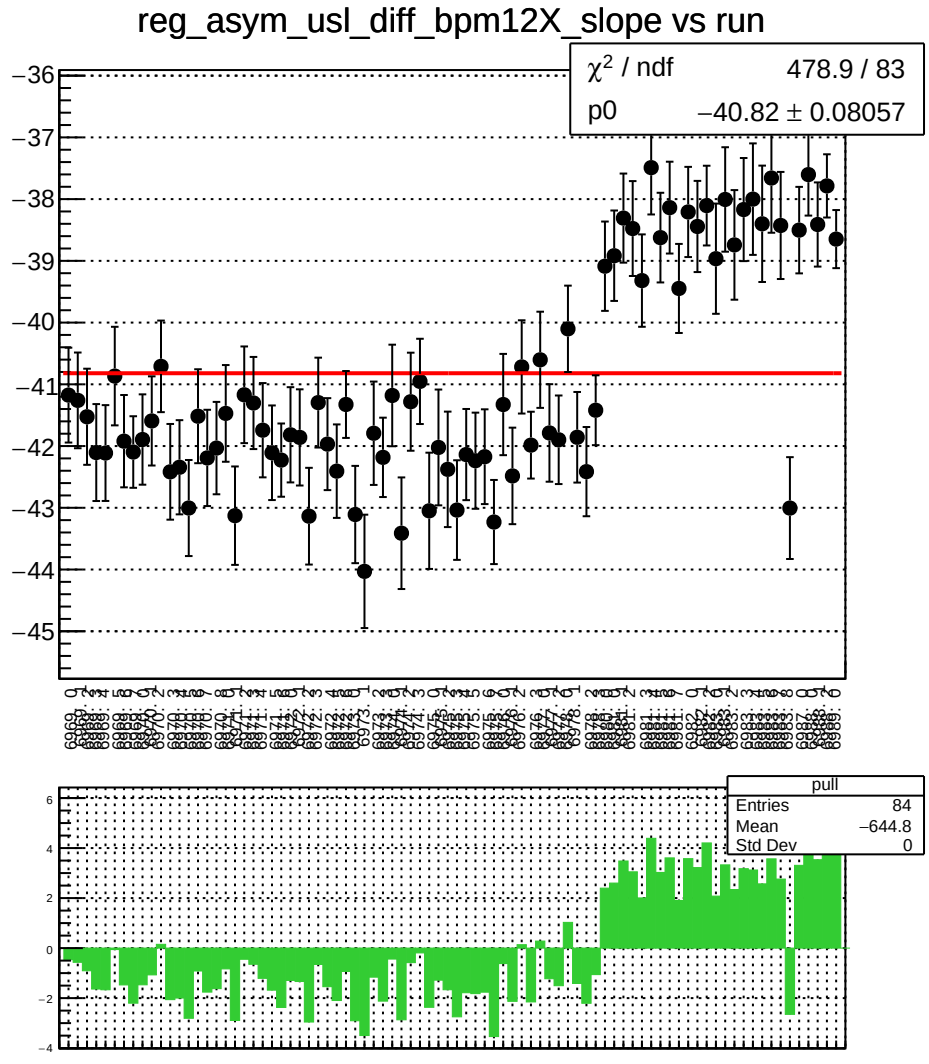

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 26.68 / 83
p0 0.923 ± 1.865
pull
Entries 84
Mean 542.2
Std Dev 0

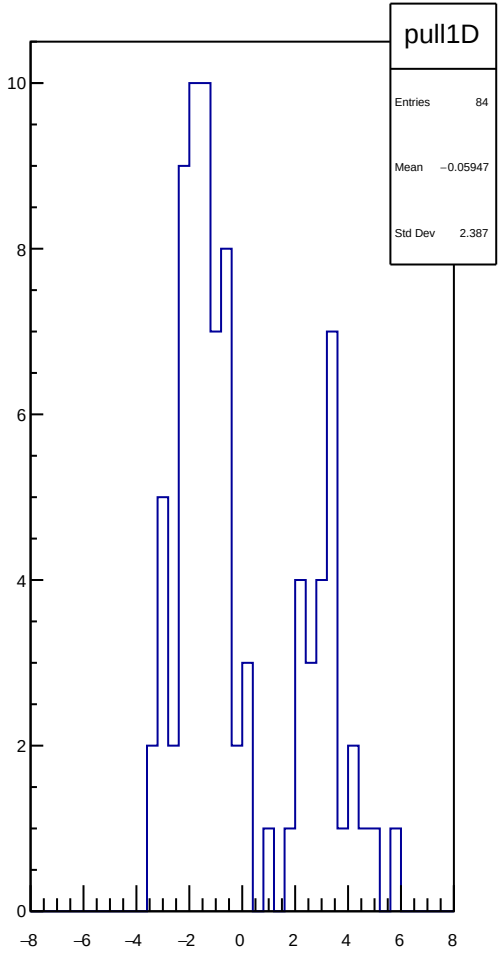

pull1D
Entries 84
Mean −0.004318
Std Dev 0.5636

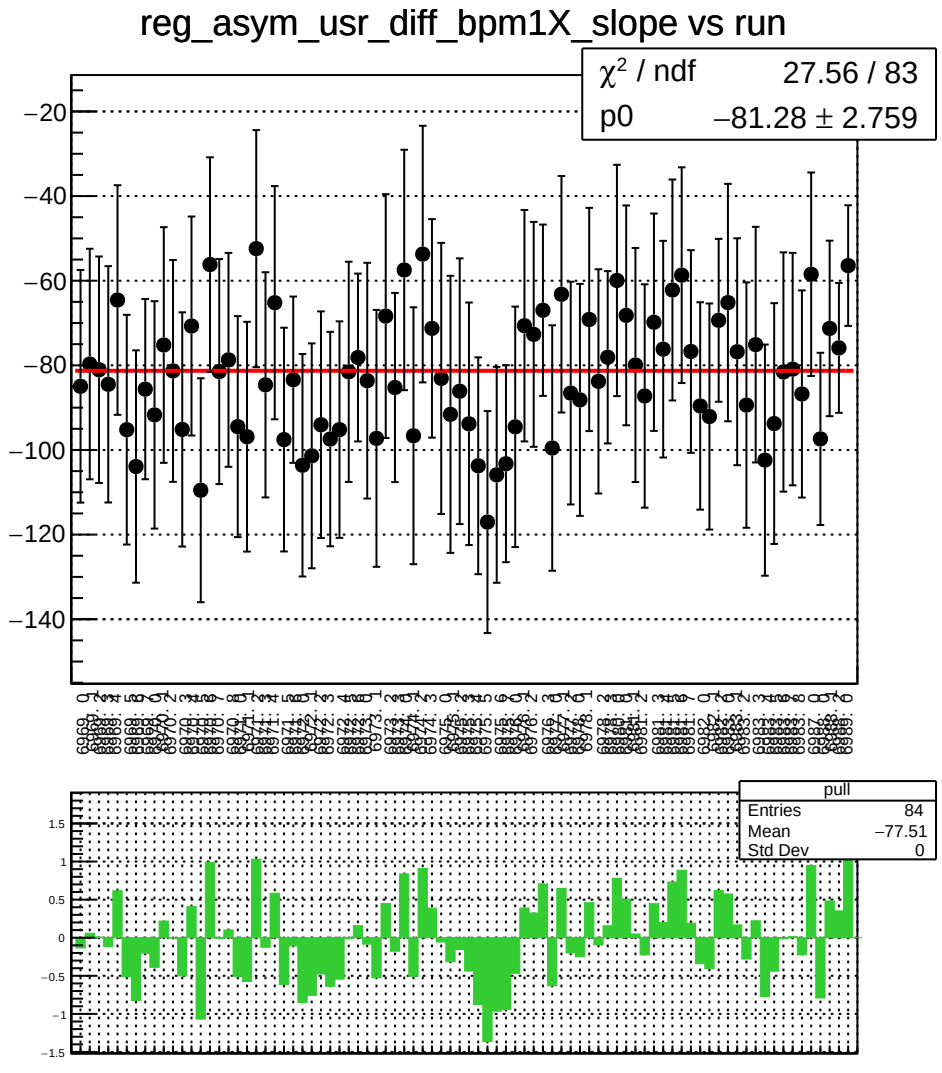

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 31.89 / 83
p0 17.08 ± 2.456
pull
Entries 84
Mean −1370
Std Dev 0
pull1D
Entries 84
Mean 0.004479
Std Dev 0.6161

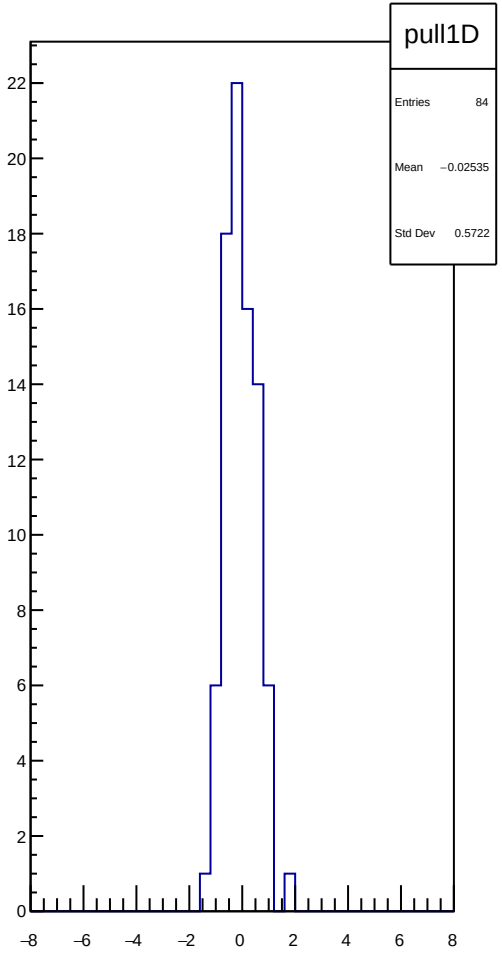

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 29.58 / 83
p0 20.58 ± 2.133
pull
Entries 84
Mean 508.9
Std Dev 0

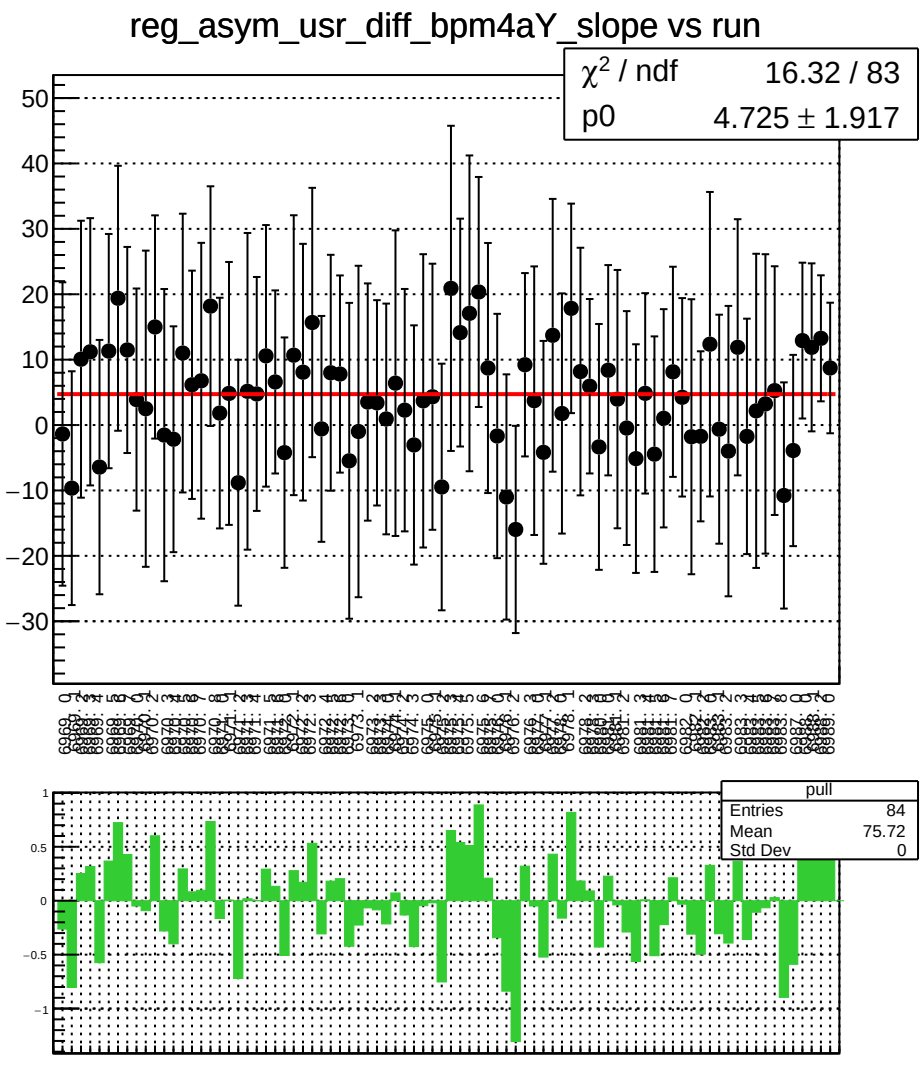

pull1D
Entries 84
Mean 0.006024
Std Dev 0.5934

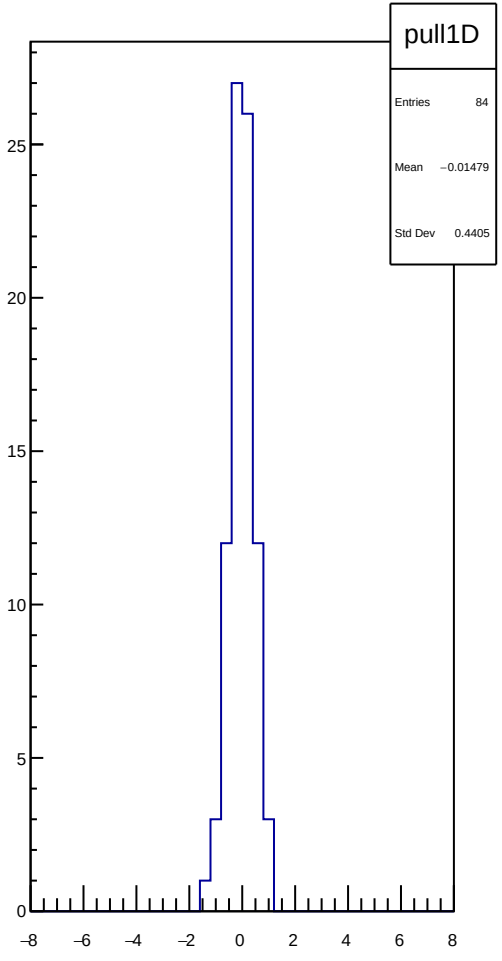

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 478.9 / 83
p0 −40.82 ± 0.08057
pull
Entries 84
Mean −644.8
Std Dev 0

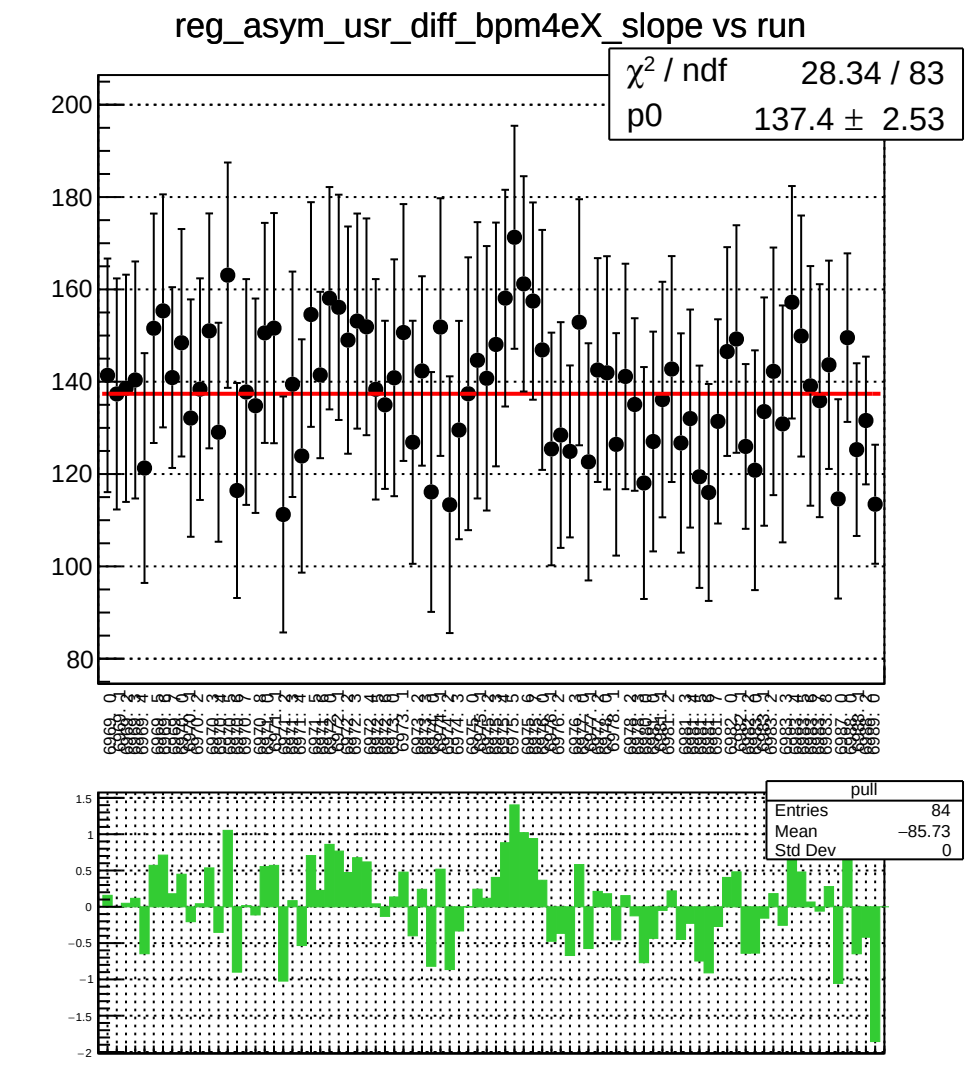

pull1D
Entries 84
Mean −0.05947
Std Dev 2.387

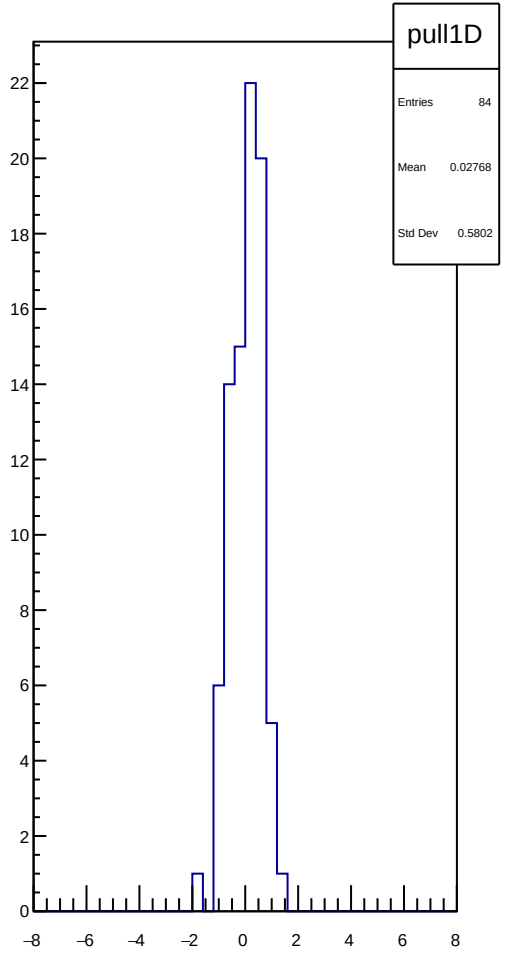

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 27.56 / 83
p0 −81.28 ± 2.759
pull
Entries 84
Mean −77.51
Std Dev 0

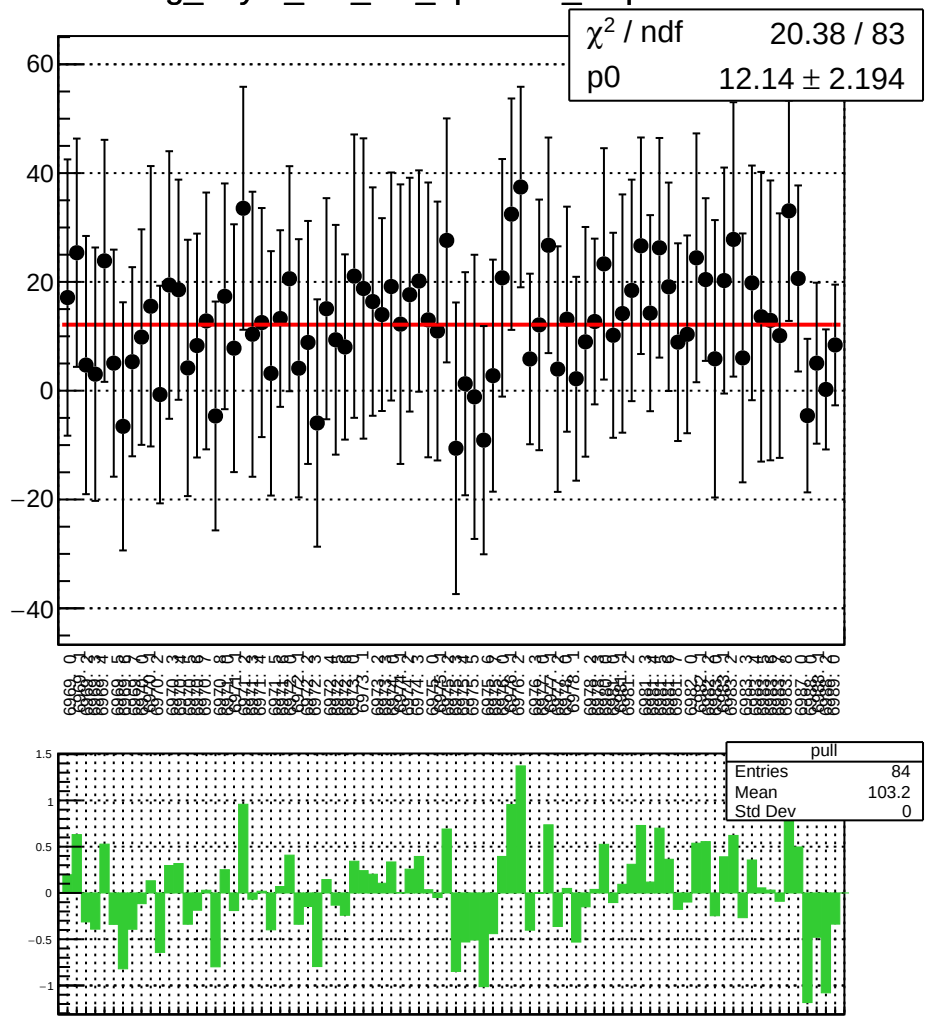

pull1D
Entries 84
Mean −0.02535
Std Dev 0.5722

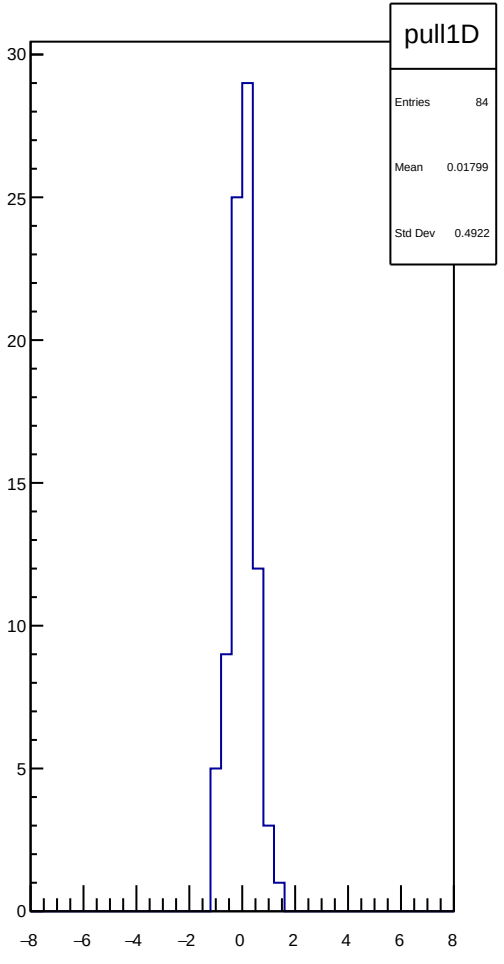

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 16.32 / 83
p0 4.725 ± 1.917
pull
Entries 84
Mean 75.72
Std Dev 0

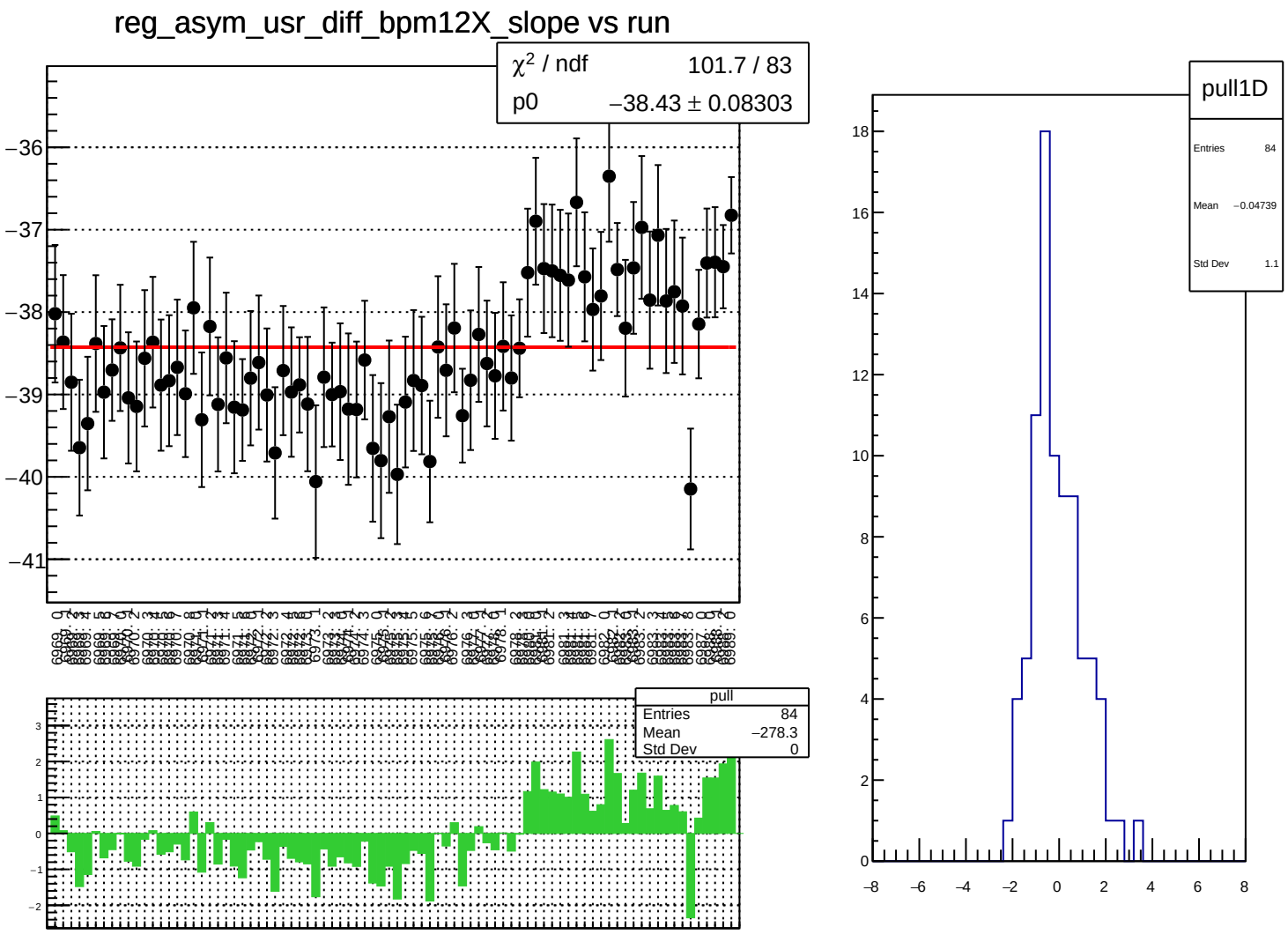

pull1D
Entries 84
Mean −0.01479
Std Dev 0.4405

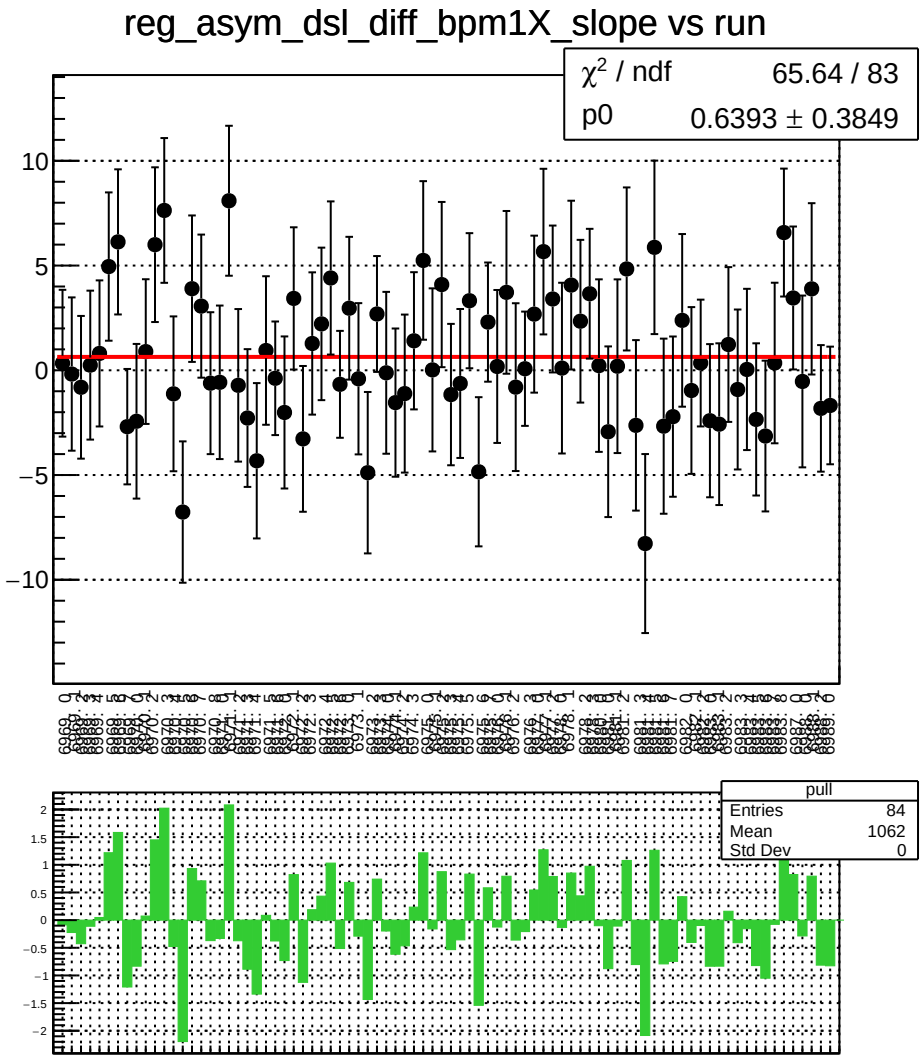

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 28.34 / 83
p0 137.4 ± 2.53
200
180
160
140
120
100
80
pull
Entries 84
Mean −85.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

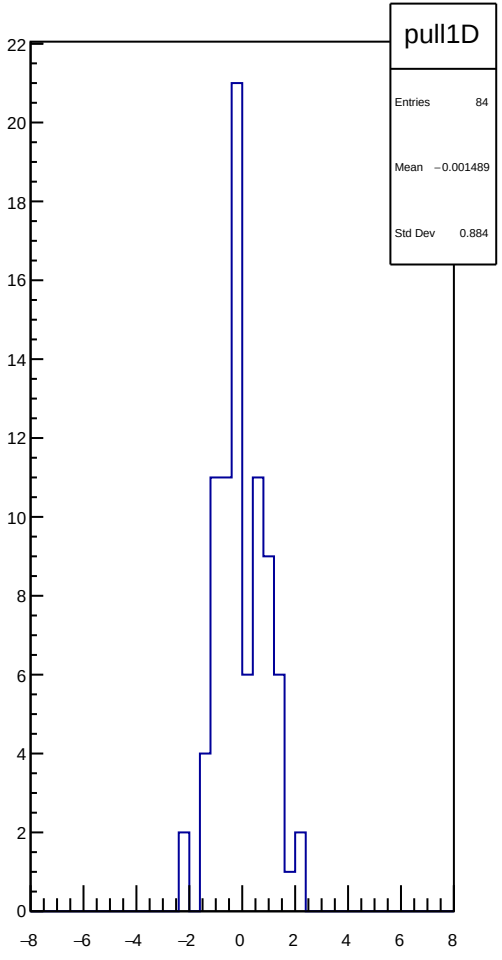

pull1D
Entries 84
Mean 0.02768
Std Dev 0.5802
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

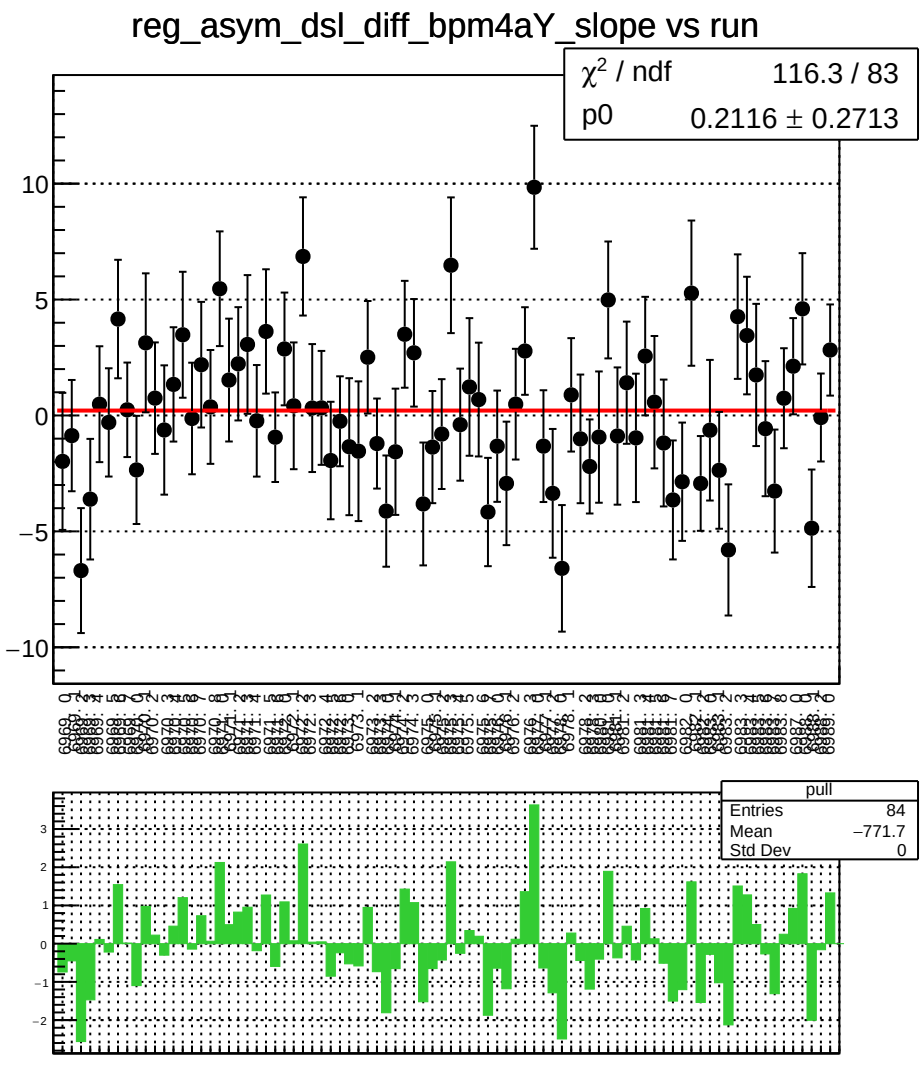

reg_asym_usr_diff_bpm4eY_slope vs run
χ^2 / ndf 20.38 / 83
p0 12.14 ± 2.194
pull
Entries 84
Mean 103.2
Std Dev 0

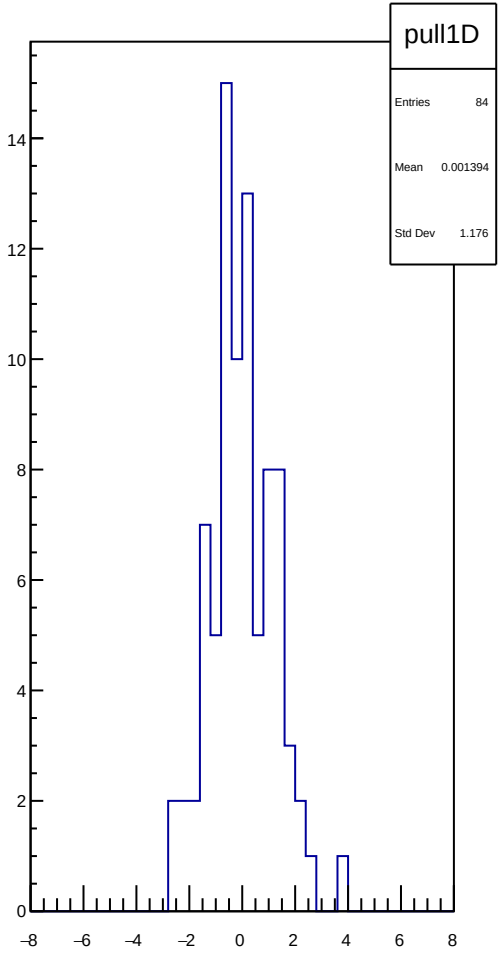

pull1D
Entries 84
Mean 0.01799
Std Dev 0.4922

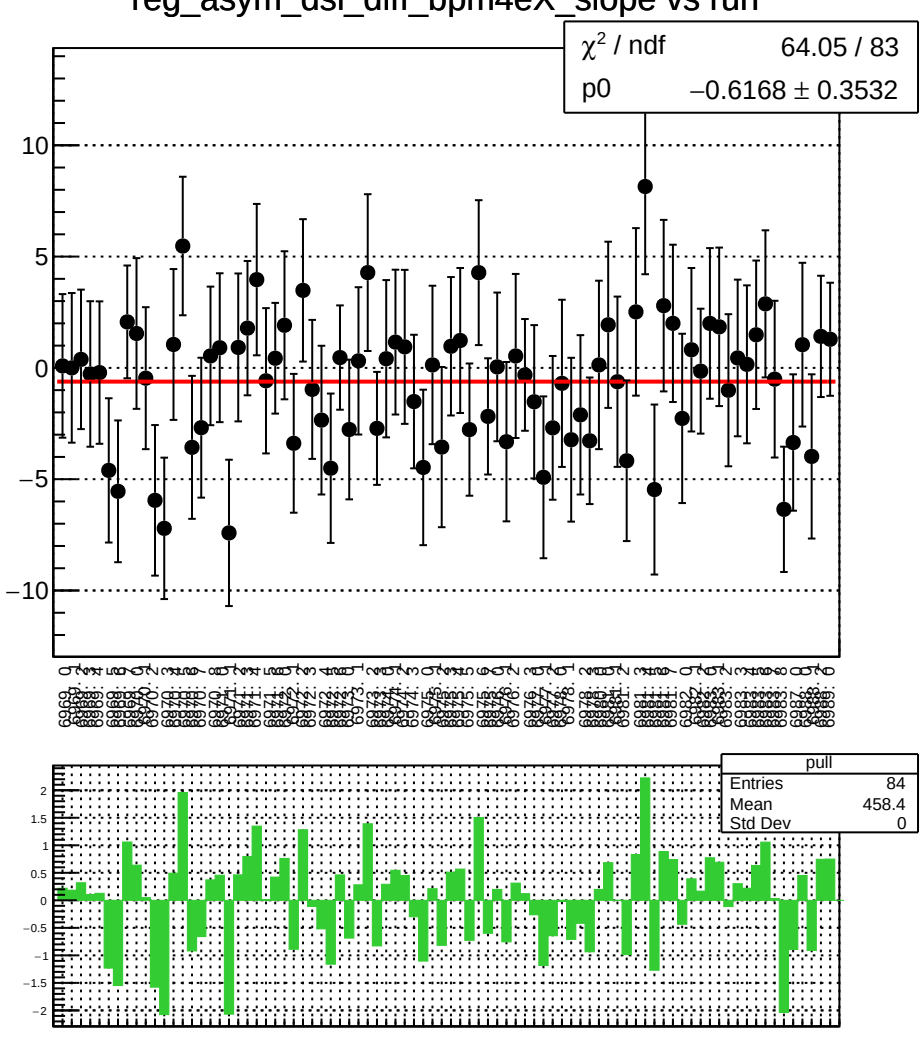

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 101.7 / 83
p0 −38.43 ± 0.08303
−36
−37
−38
−39
−40
−41
pull
Entries 84
Mean −278.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.04739
Std Dev 1.1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

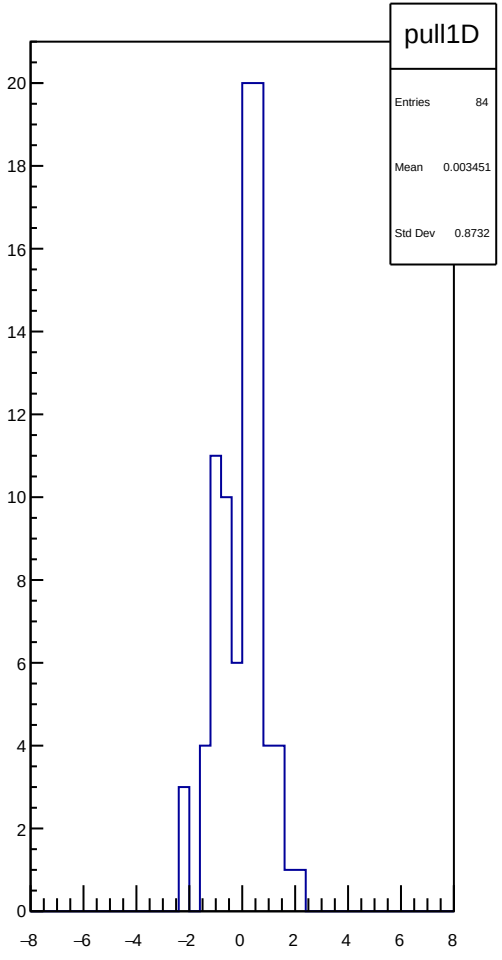

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 65.64 / 83
p0 0.6393 ± 0.3849
pull
Entries 84
Mean 1062
Std Dev 0

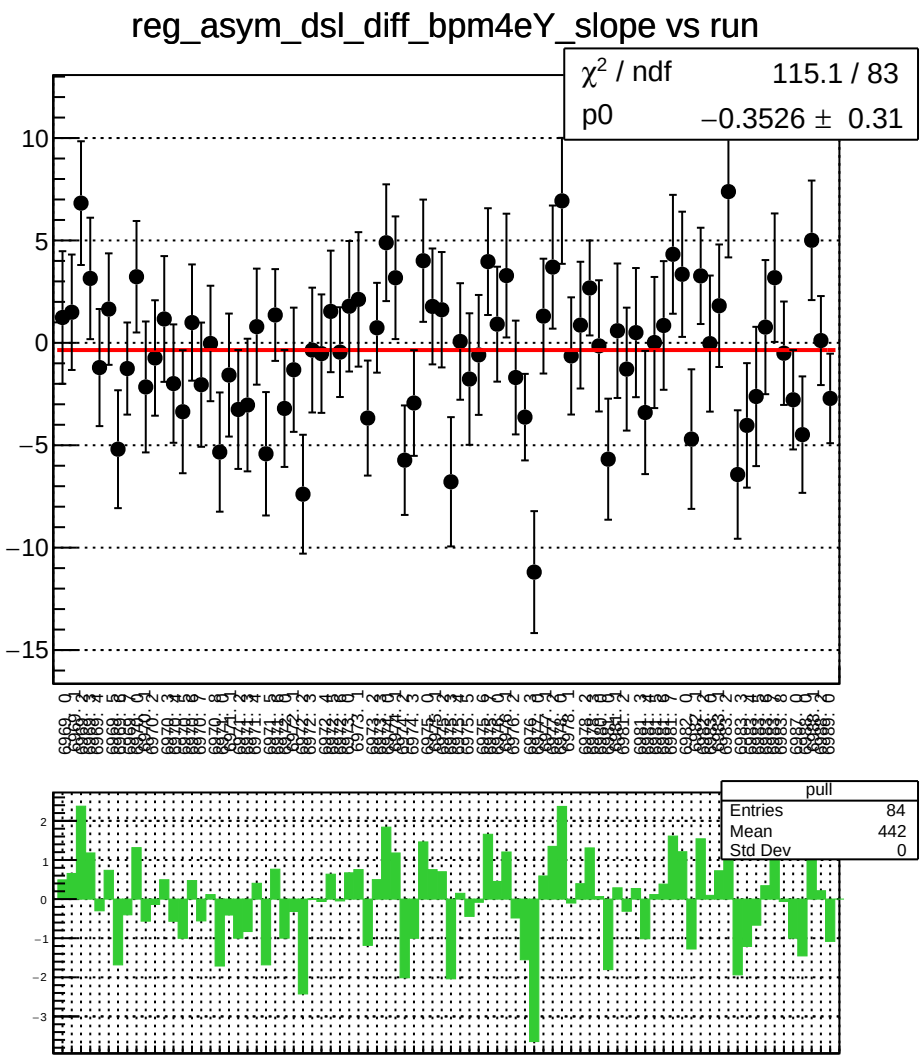

pull1D
Entries 84
Mean −0.001489
Std Dev 0.884

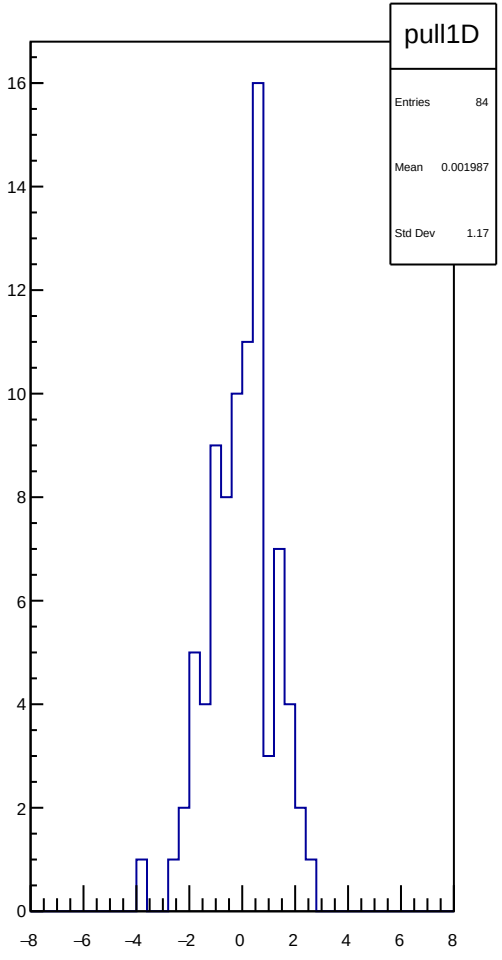

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 116.3 / 83
p0 0.2116 ± 0.2713
pull
Entries 84
Mean −771.7
Std Dev 0

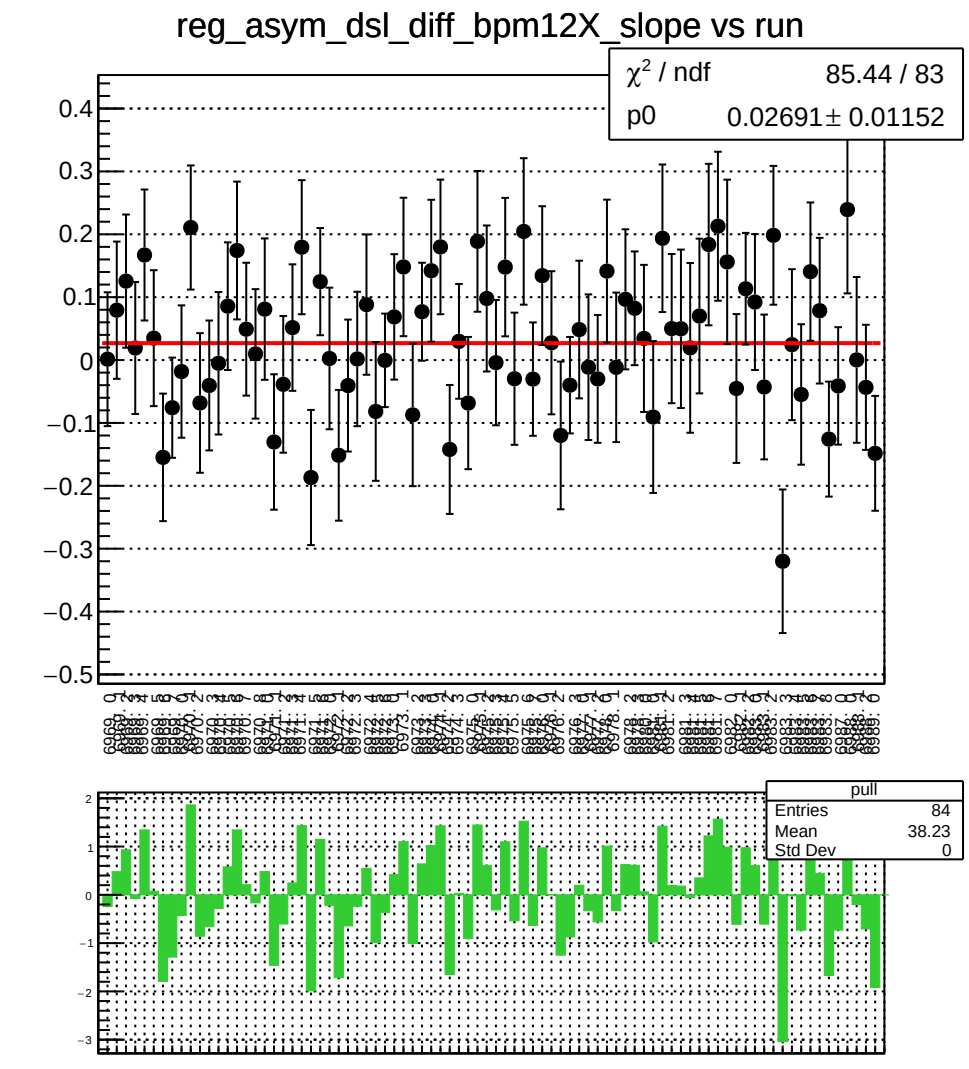

pull1D
Entries 84
Mean 0.001394
Std Dev 1.176

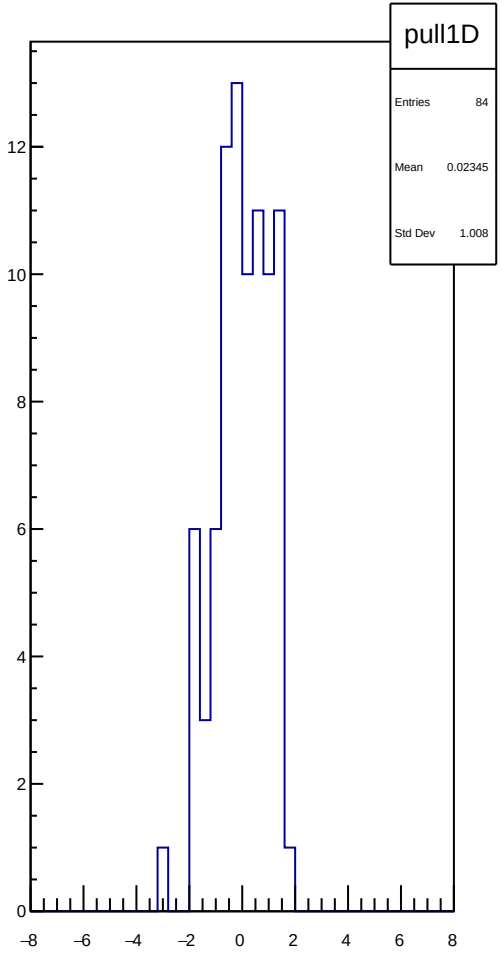

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 64.05 / 83
p0 −0.6168 ± 0.3532
pull
Entries 84
Mean 458.4
Std Dev 0

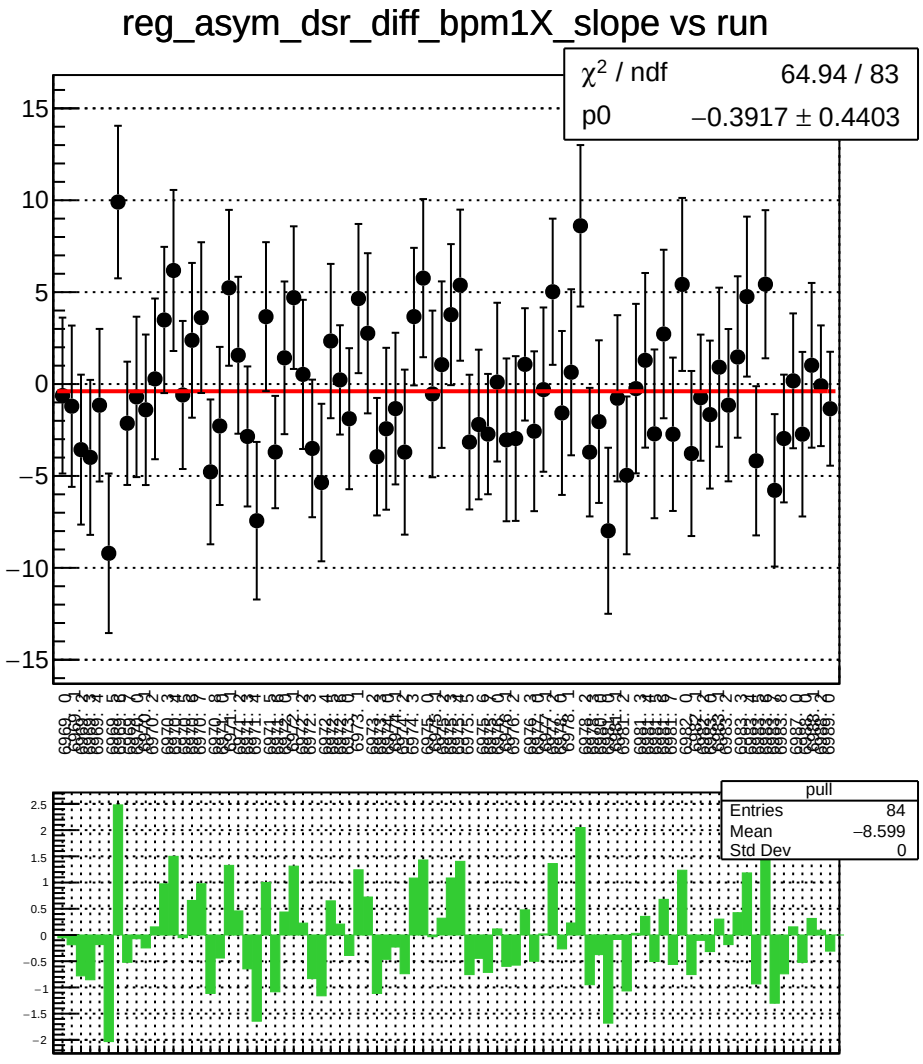

pull1D
Entries 84
Mean 0.003451
Std Dev 0.8732

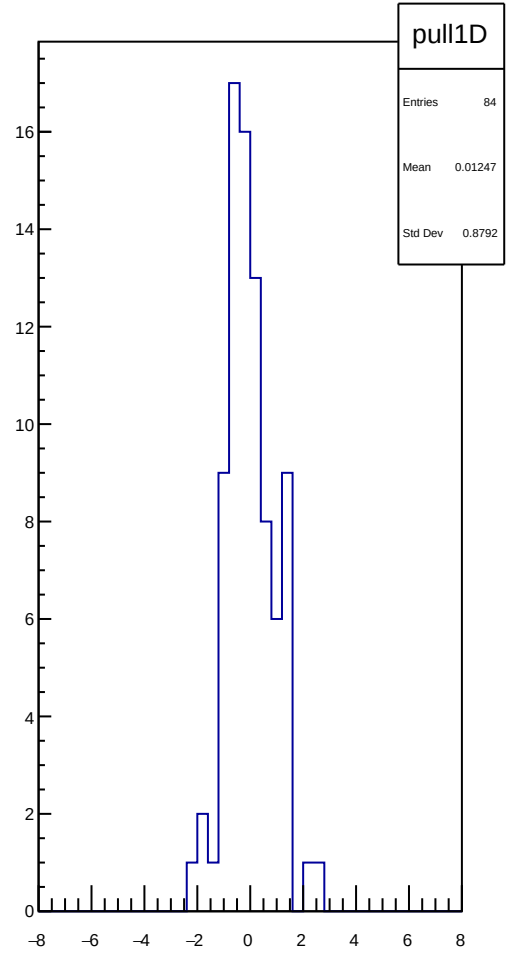

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 115.1 / 83
p0 −0.3526 ± 0.31
pull
Entries 84
Mean 442
Std Dev 0

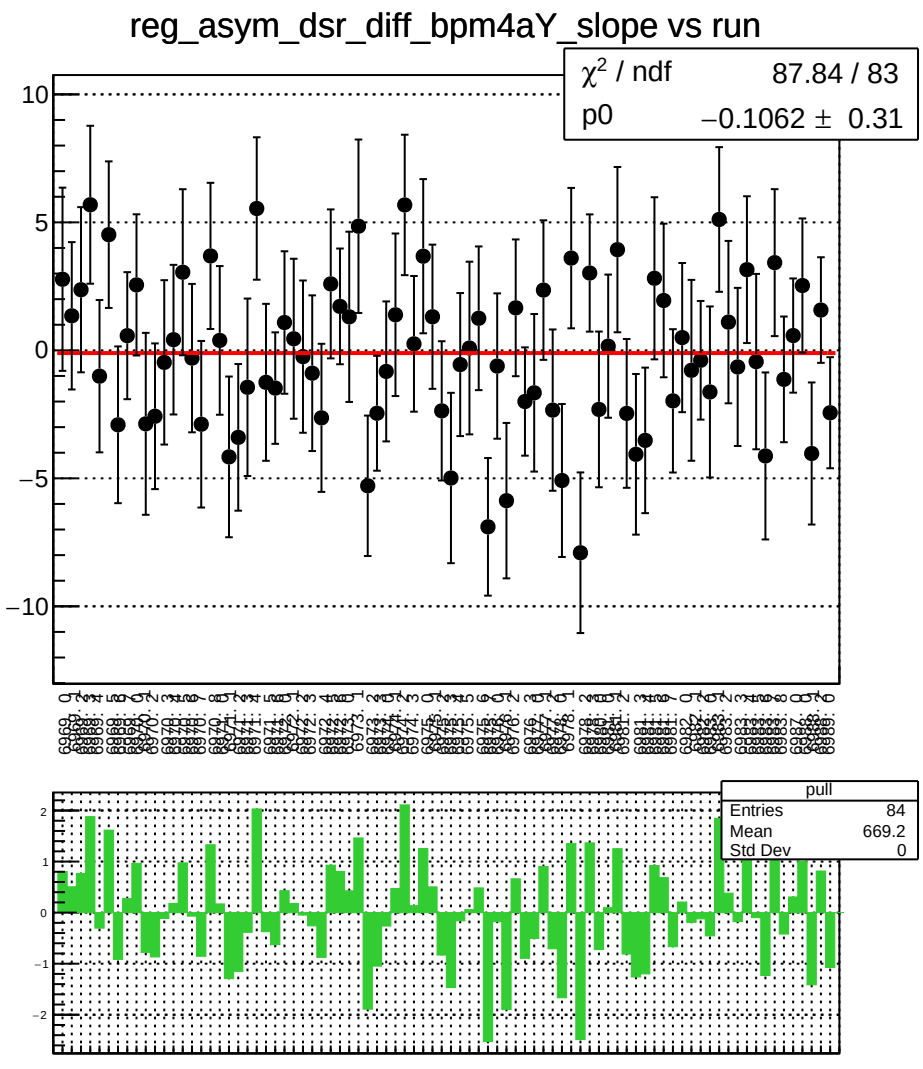

pull1D
Entries 84
Mean 0.001987
Std Dev 1.17

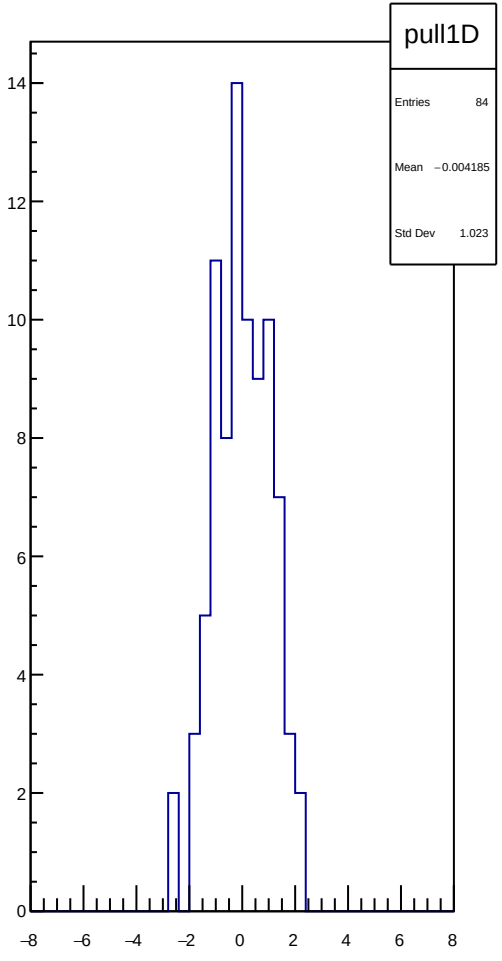

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 85.44 / 83
p0 0.02691 ± 0.01152
pull
Entries 84
Mean 38.23
Std Dev 0

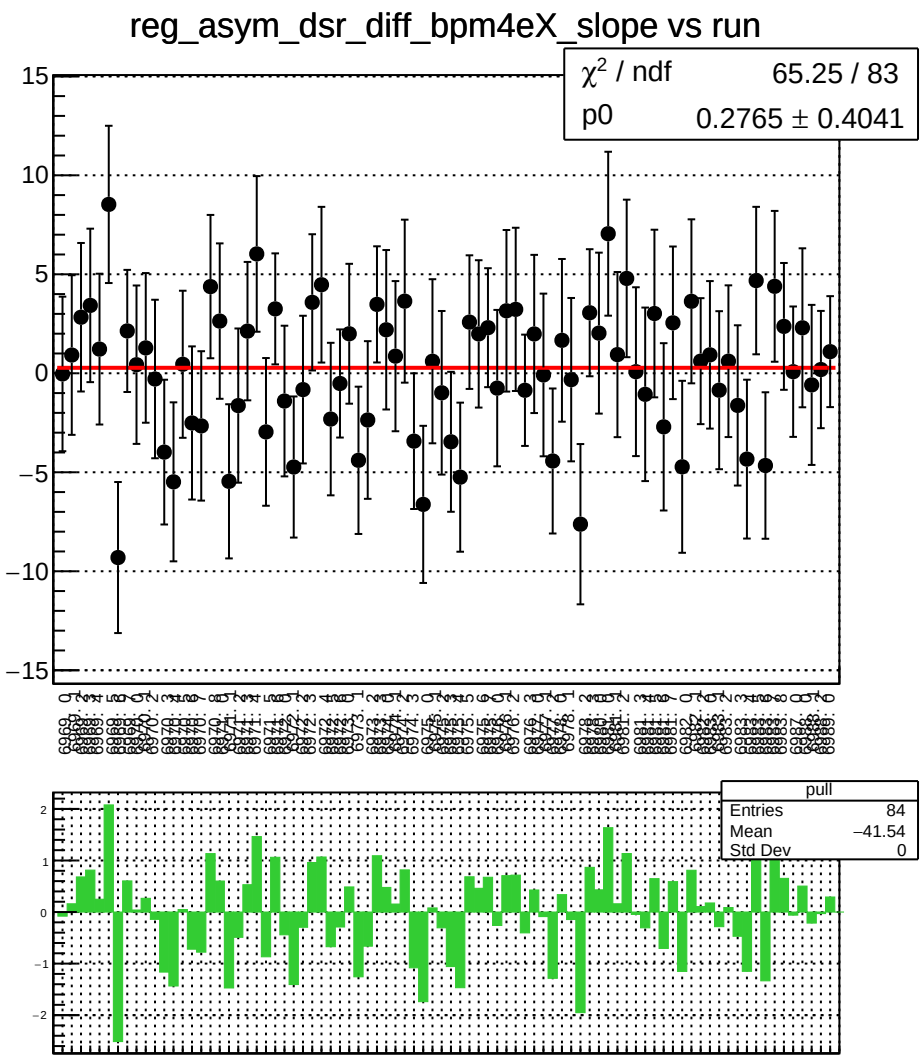

pull1D
Entries 84
Mean 0.02345
Std Dev 1.008

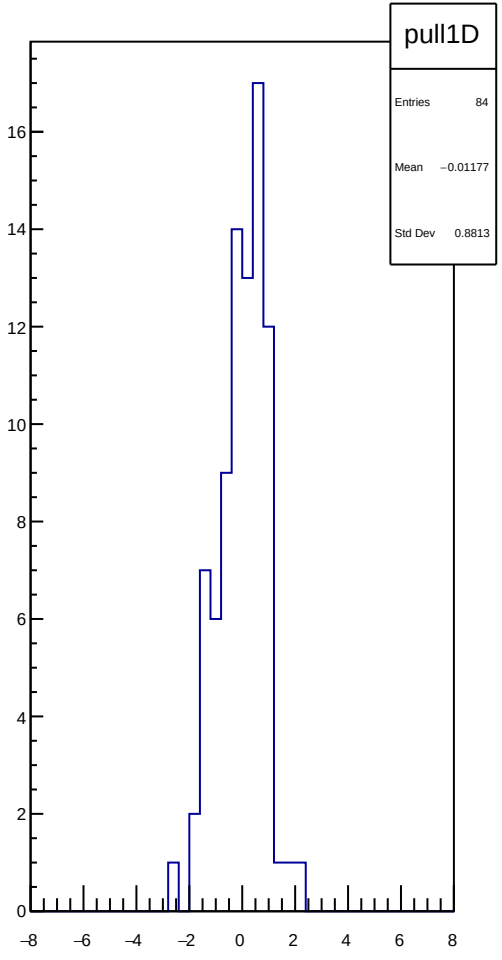

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 64.94 / 83
p0 −0.3917 ± 0.4403
pull
Entries 84
Mean −8.599
Std Dev 0

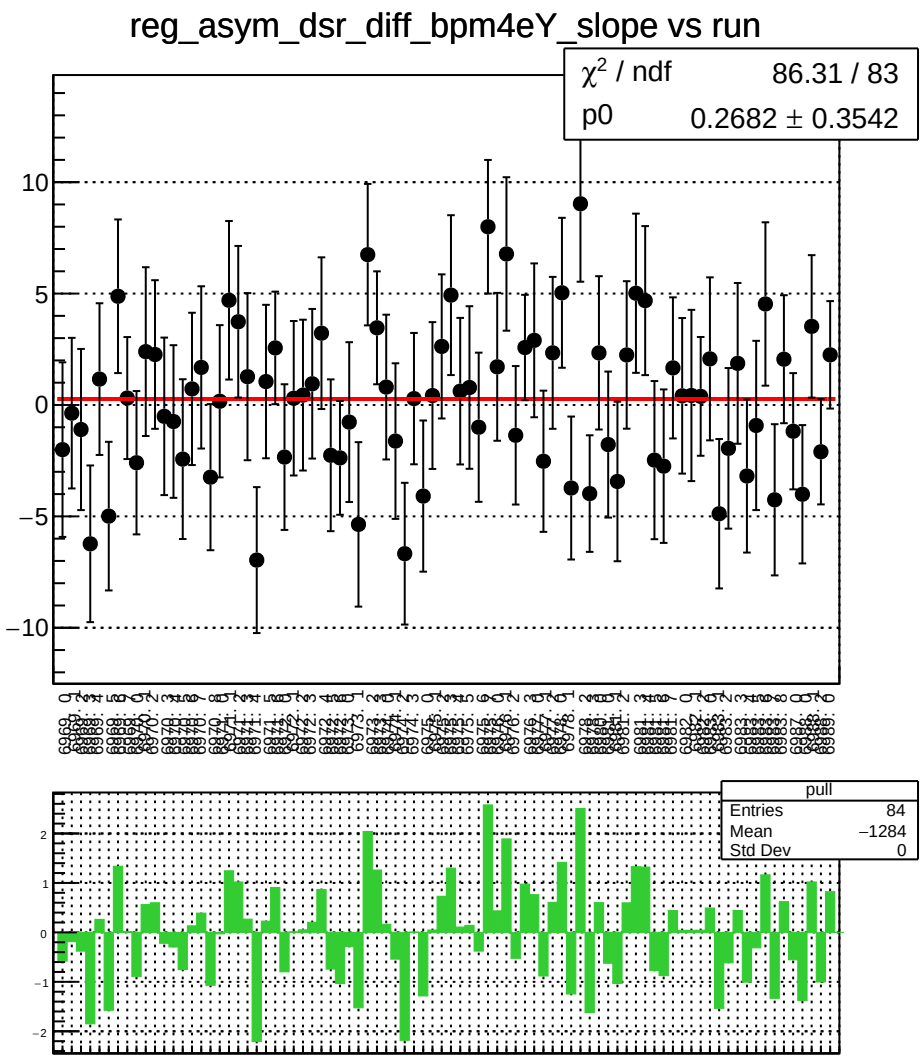

pull1D
Entries 84
Mean 0.01247
Std Dev 0.8792

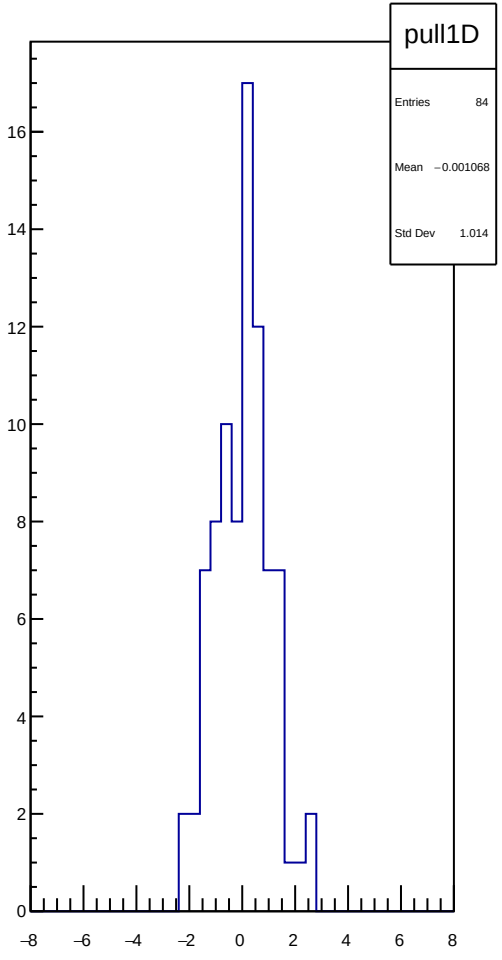

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 87.84 / 83
p0 −0.1062 ± 0.31
pull
Entries 84
Mean 669.2
Std Dev 0

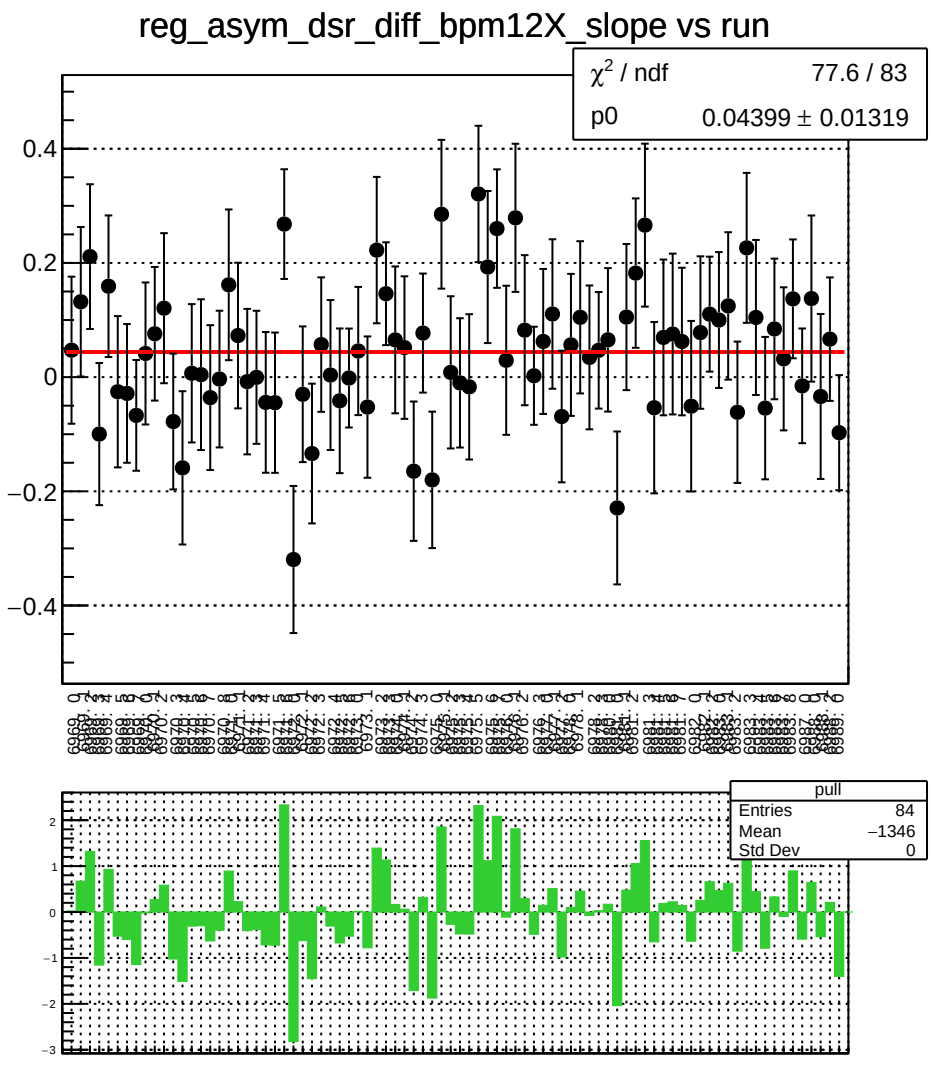

pull1D
Entries 84
Mean −0.004185
Std Dev 1.023

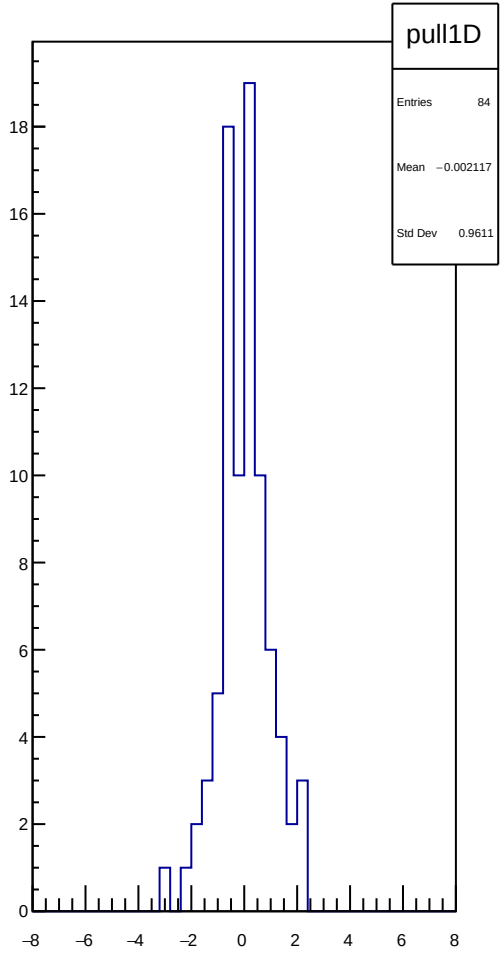

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 65.25 / 83
p0 0.2765 ± 0.4041
pull
Entries 84
Mean −41.54
Std Dev 0

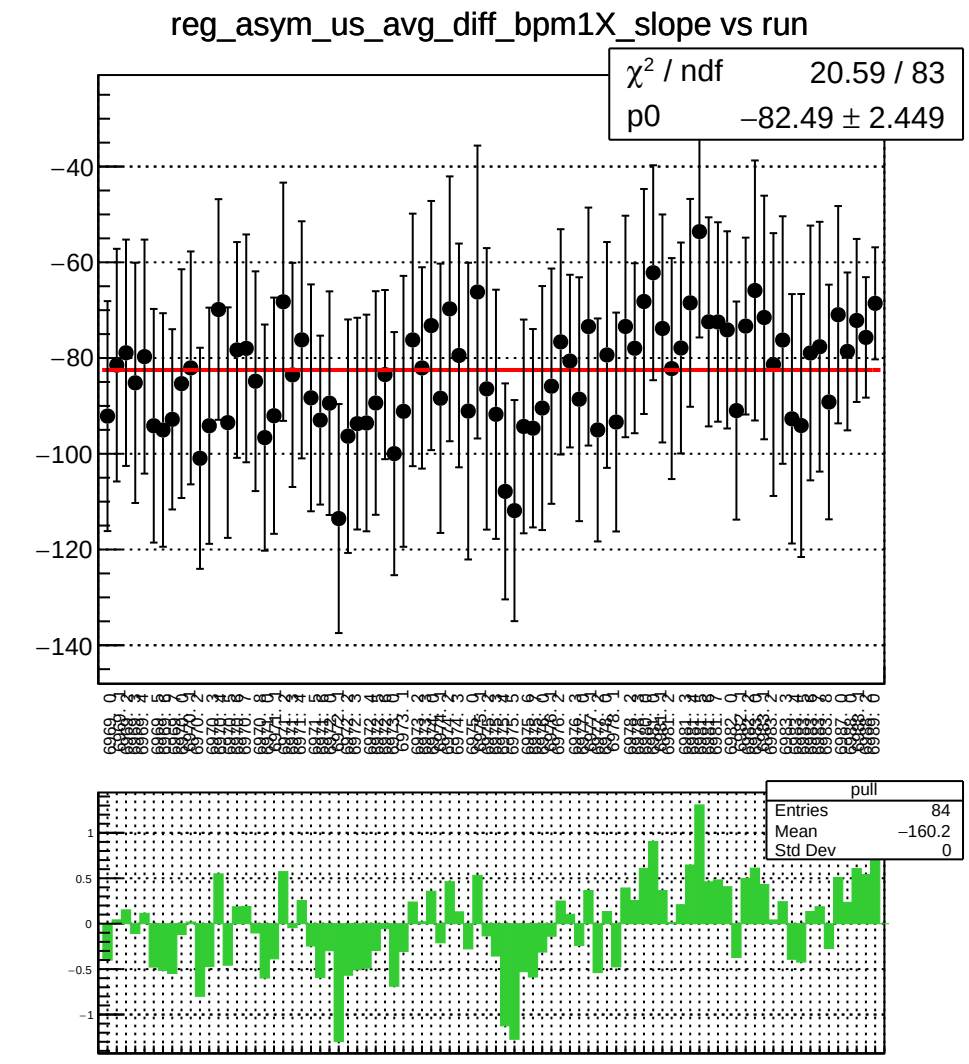

pull1D
Entries 84
Mean −0.01177
Std Dev 0.8813

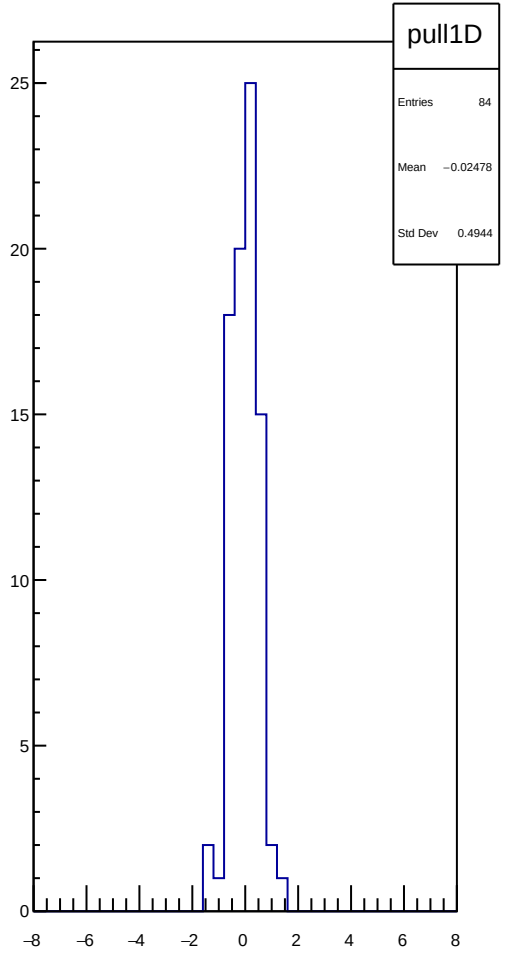

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 86.31 / 83
p0 0.2682 ± 0.3542
pull
Entries 84
Mean −1284
Std Dev 0

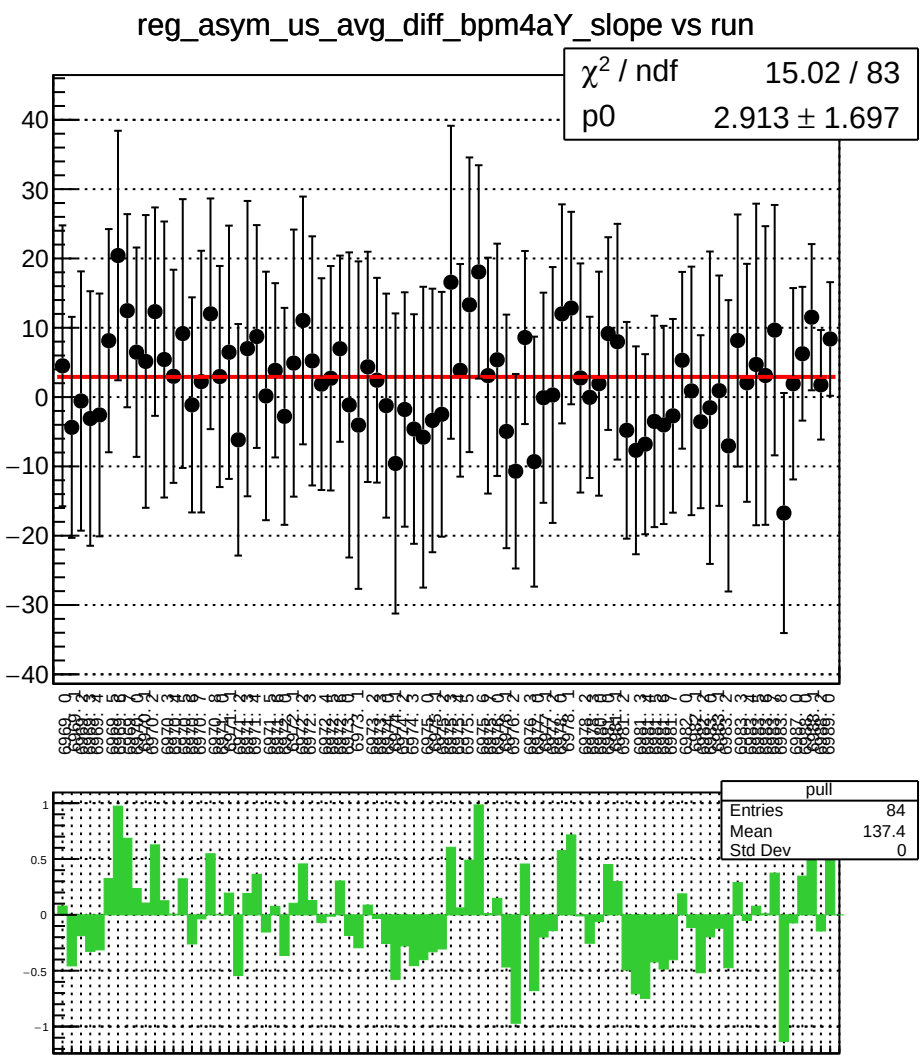

pull1D
Entries 84
Mean −0.001068
Std Dev 1.014

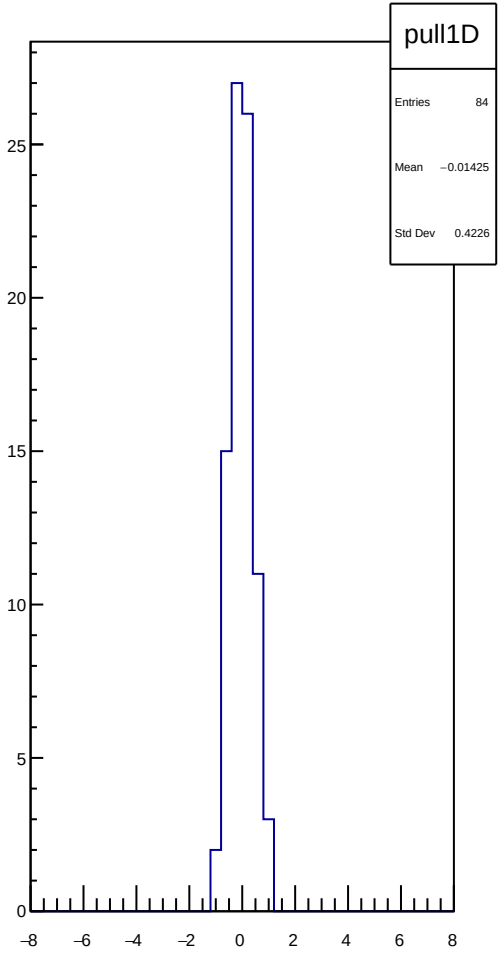

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 77.6 / 83
p0 0.04399 ± 0.01319
pull
Entries 84
Mean −1346
Std Dev 0

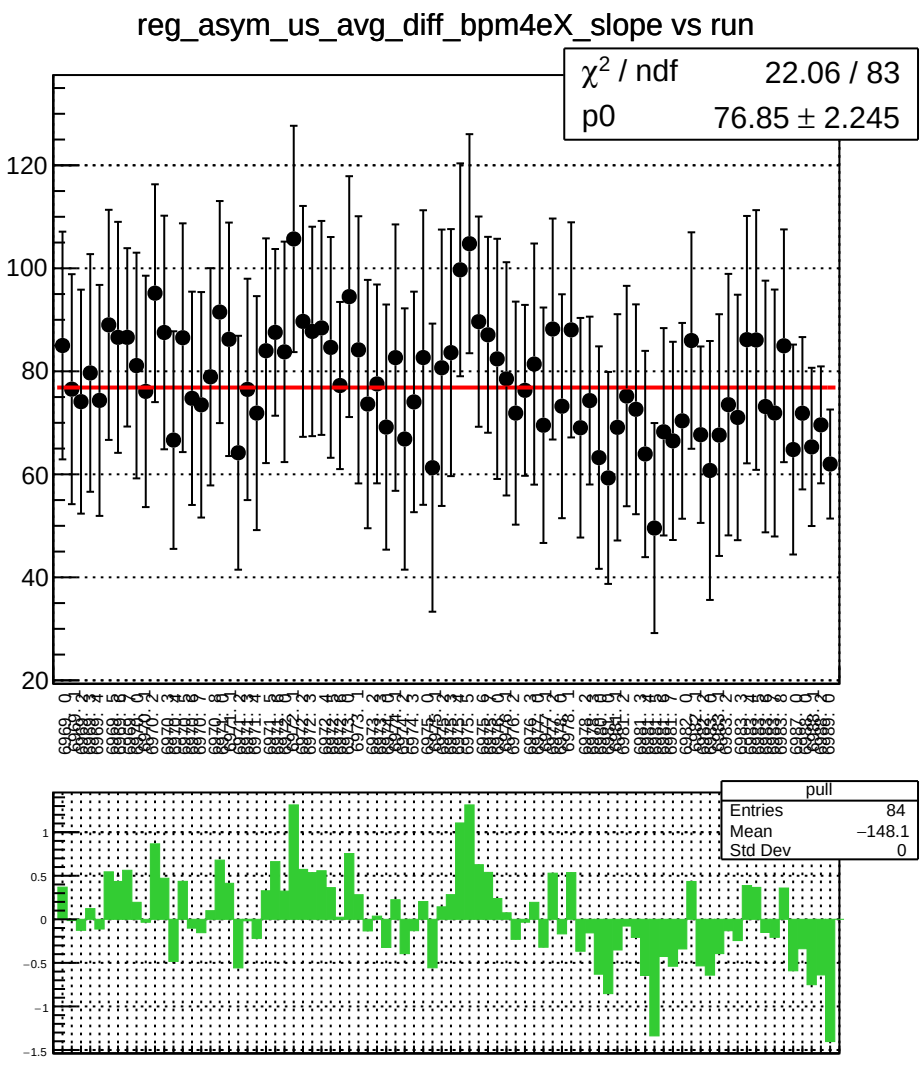

pull1D
Entries 84
Mean −0.002117
Std Dev 0.9611

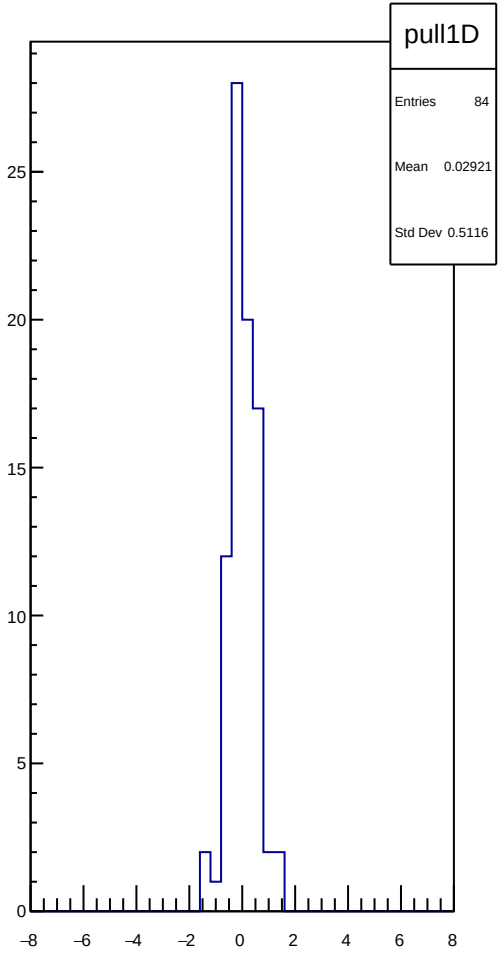

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 20.59 / 83
p0 −82.49 ± 2.449
−40
−60
−80
−100
−120
−140
pull
Entries 84
Mean −160.2
Std Dev 0
1
0.5
0
−0.5
−1

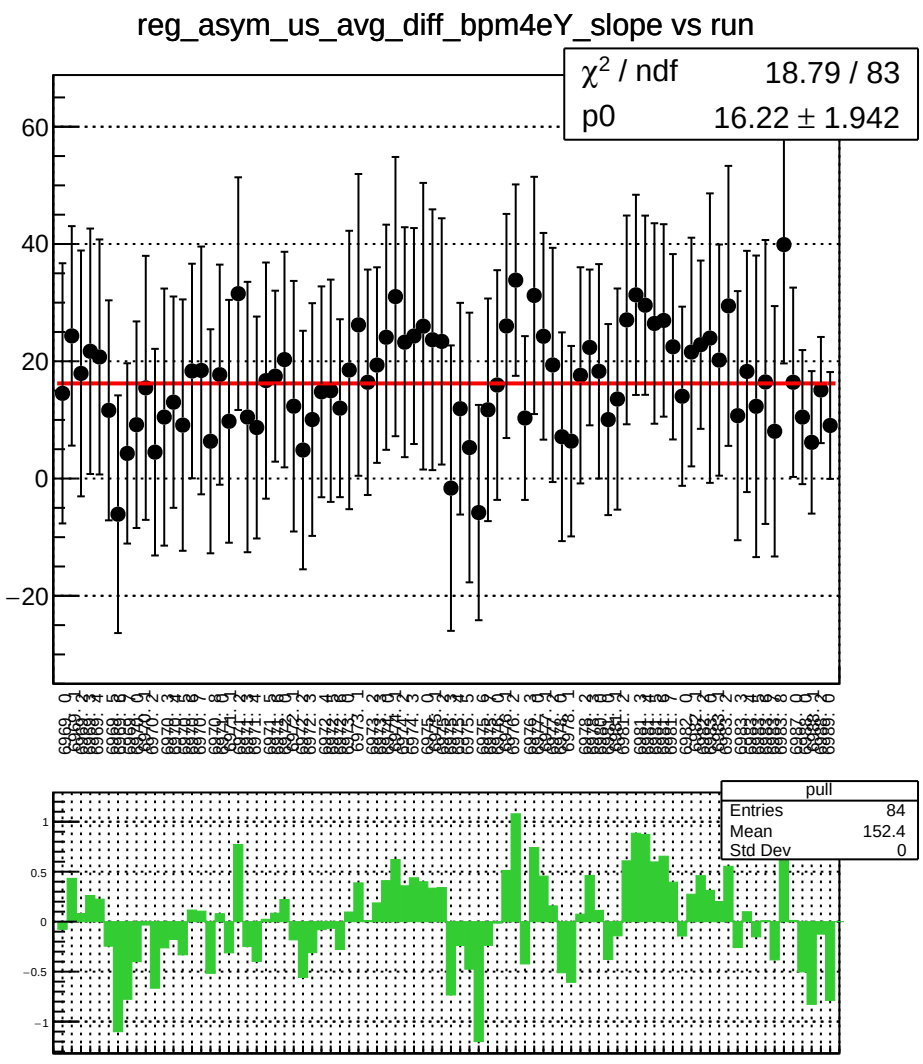

pull1D
Entries 84
Mean −0.02478
Std Dev 0.4944
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

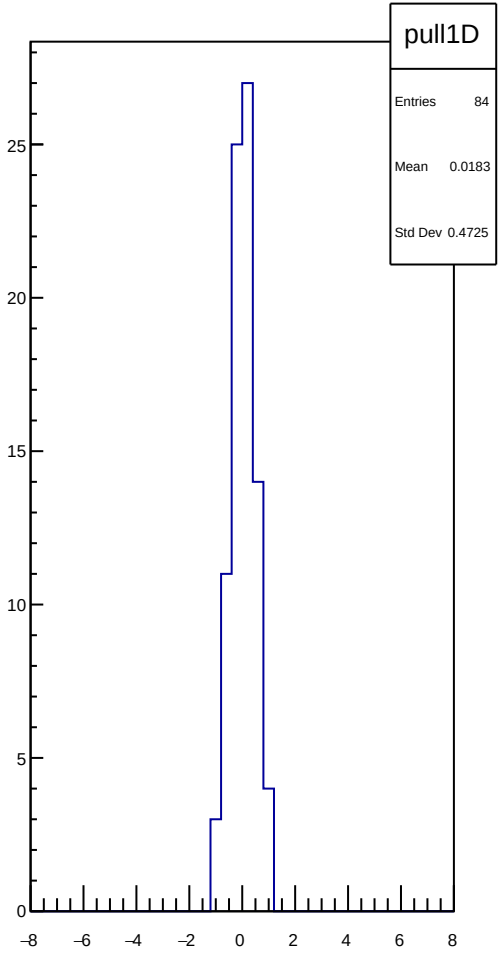

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.02 / 83
p0 2.913 ± 1.697
pull
Entries 84
Mean 137.4
Std Dev 0

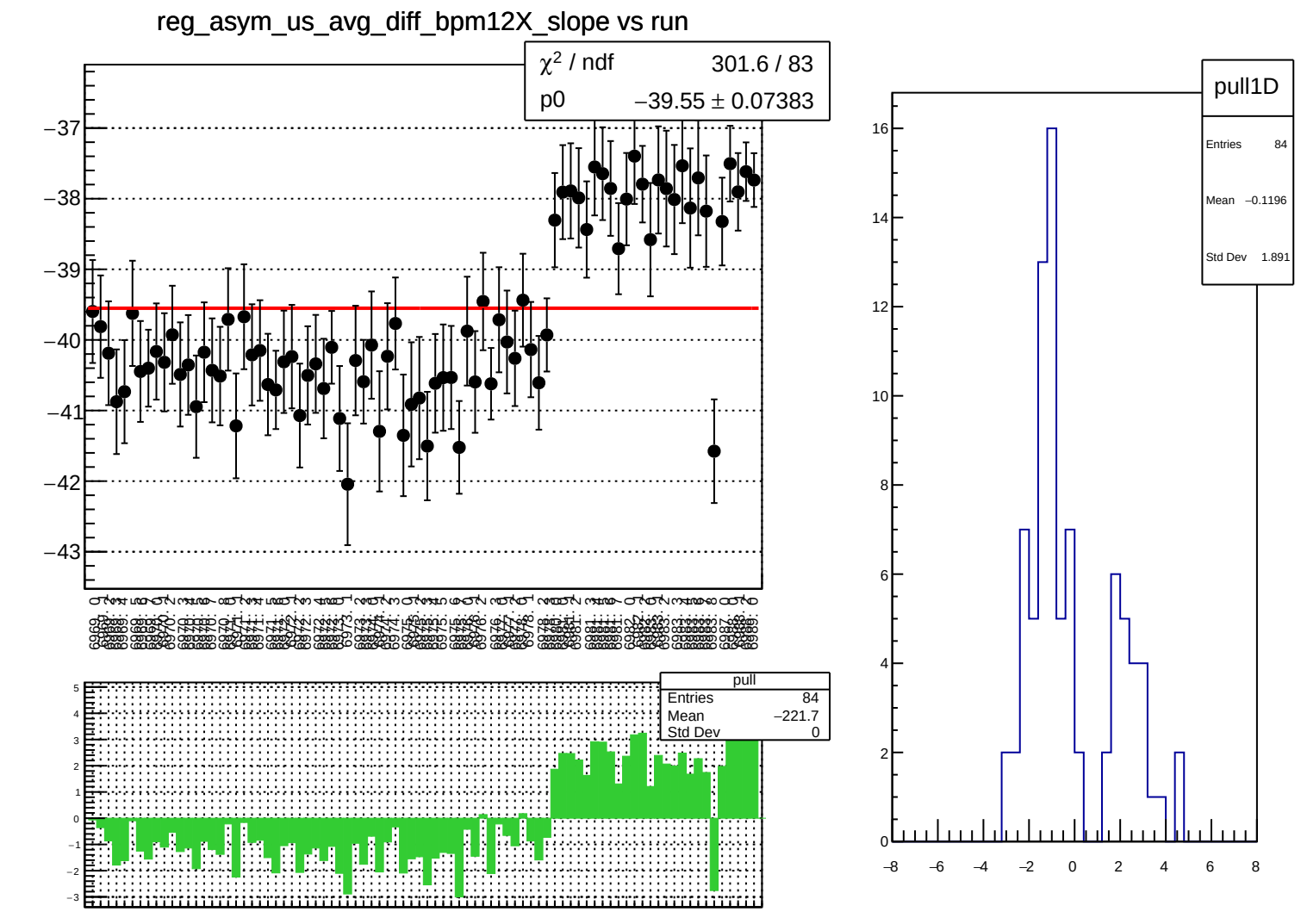

pull1D
Entries 84
Mean −0.01425
Std Dev 0.4226

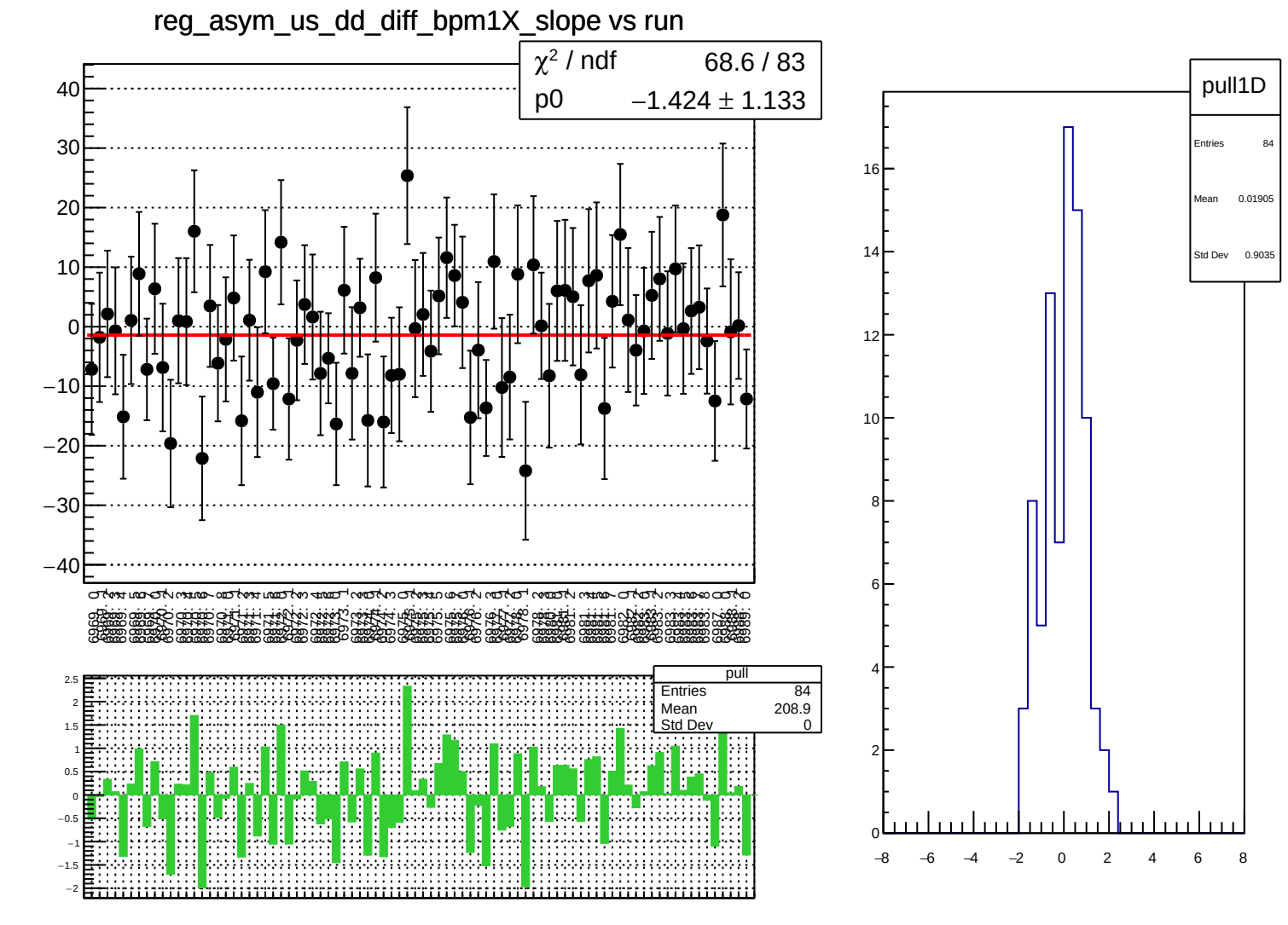

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.06 / 83
p0 76.85 ± 2.245
pull
Entries 84
Mean −148.1
Std Dev 0

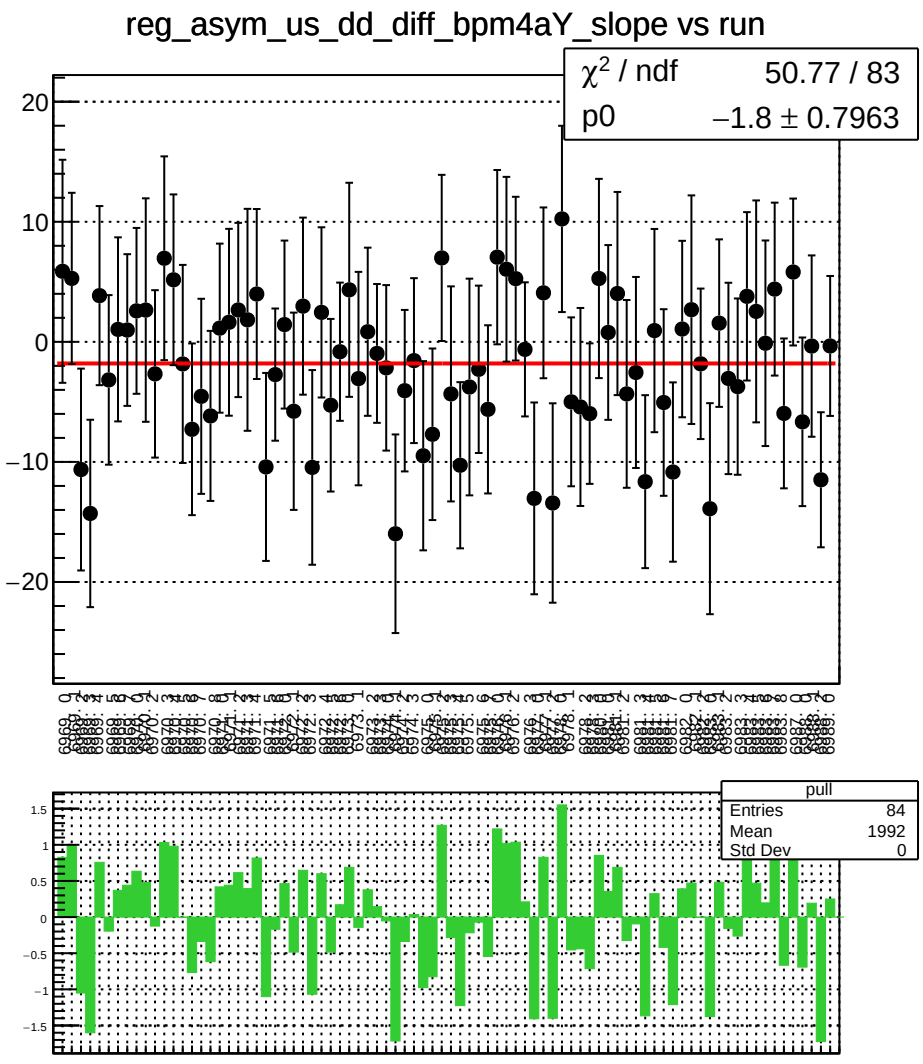

pull1D
Entries 84
Mean 0.02921
Std Dev 0.5116

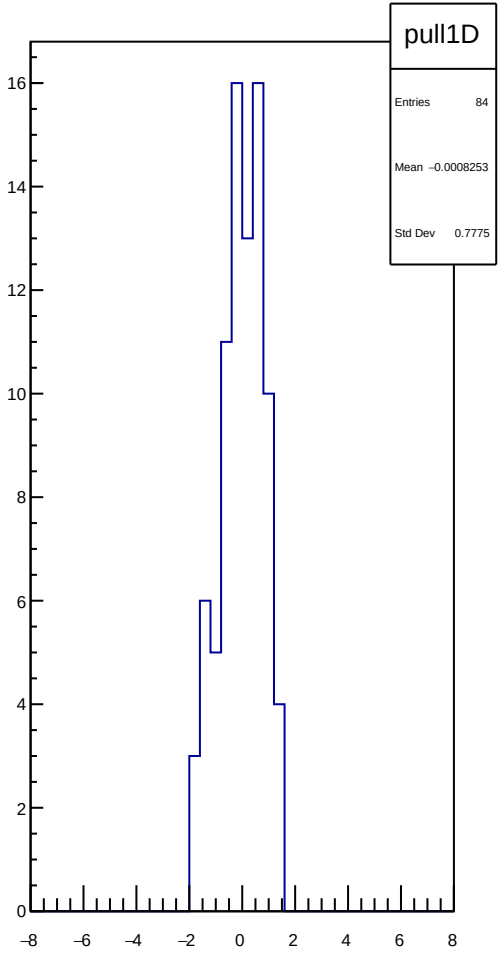

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.79 / 83
p0 16.22 ± 1.942
pull
Entries 84
Mean 152.4
Std Dev 0

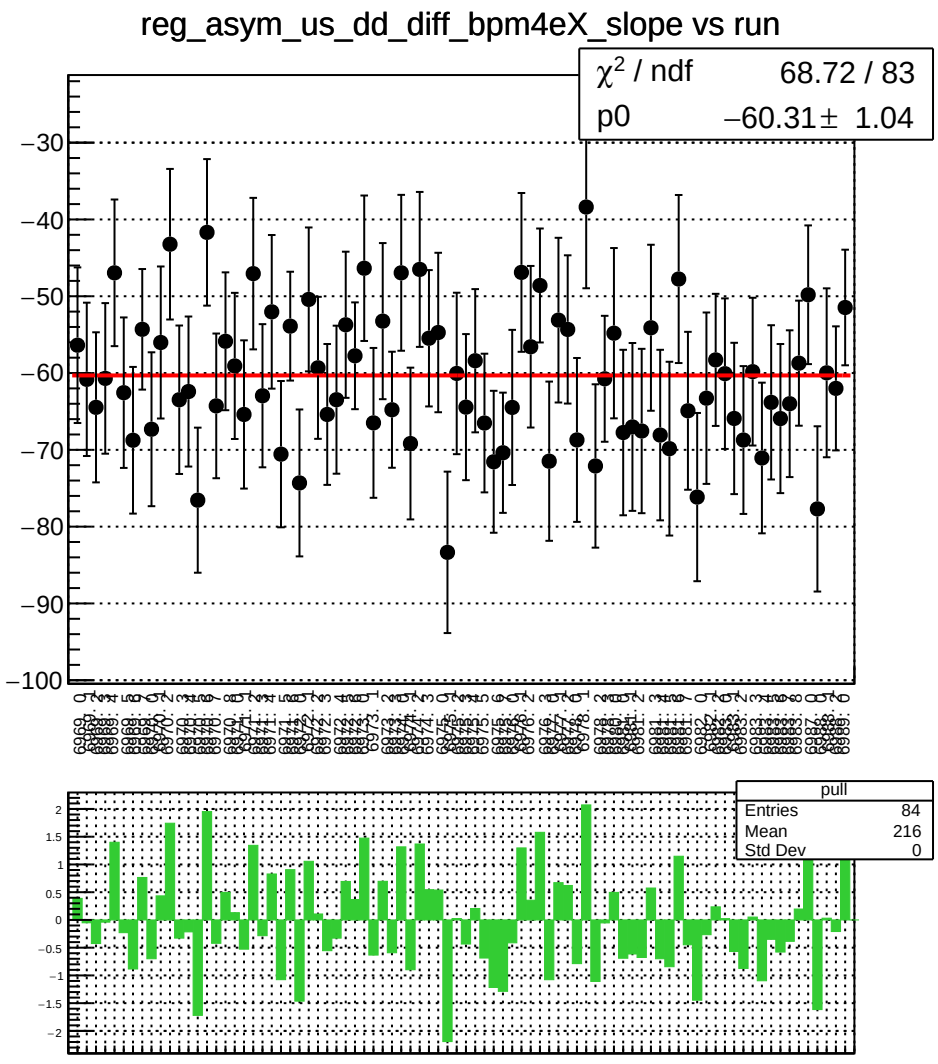

pull1D
Entries 84
Mean 0.0183
Std Dev 0.4725

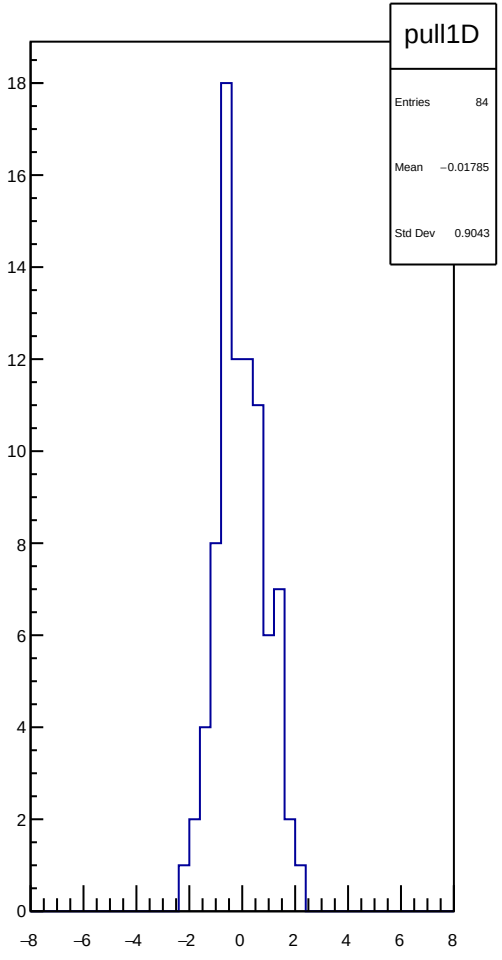

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 301.6 / 83
p0 −39.55 ± 0.07383
pull
Entries 84
Mean −221.7
Std Dev 0
pull1D
Entries 84
Mean −0.1196
Std Dev 1.891

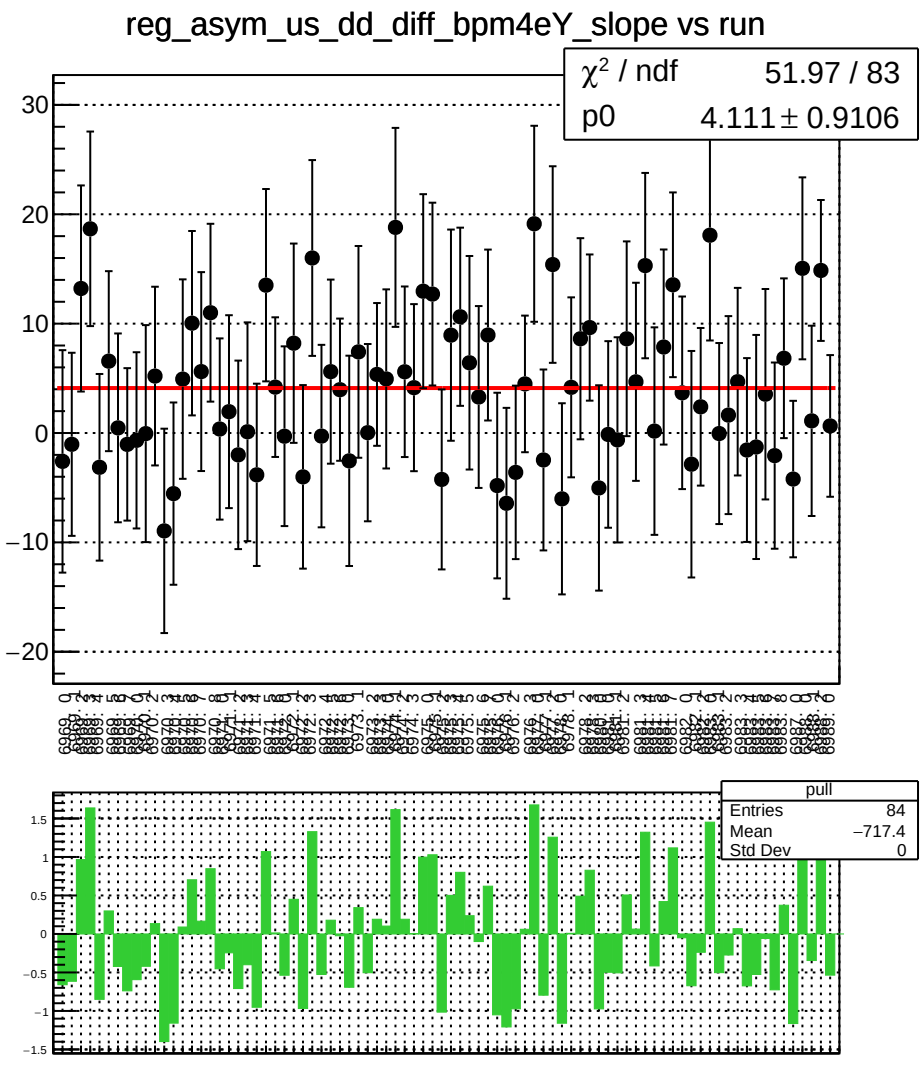

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 68.6 / 83
p0 −1.424 ± 1.133
pull
Entries 84
Mean 208.9
Std Dev 0
pull1D
Entries 84
Mean 0.01905
Std Dev 0.9035

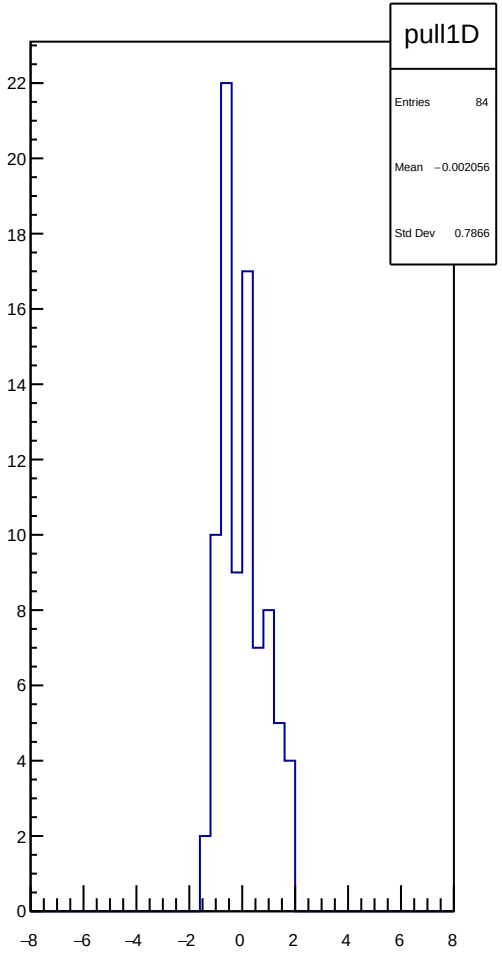

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.77 / 83
p0 −1.8 ± 0.7963
pull
Entries 84
Mean 1992
Std Dev 0

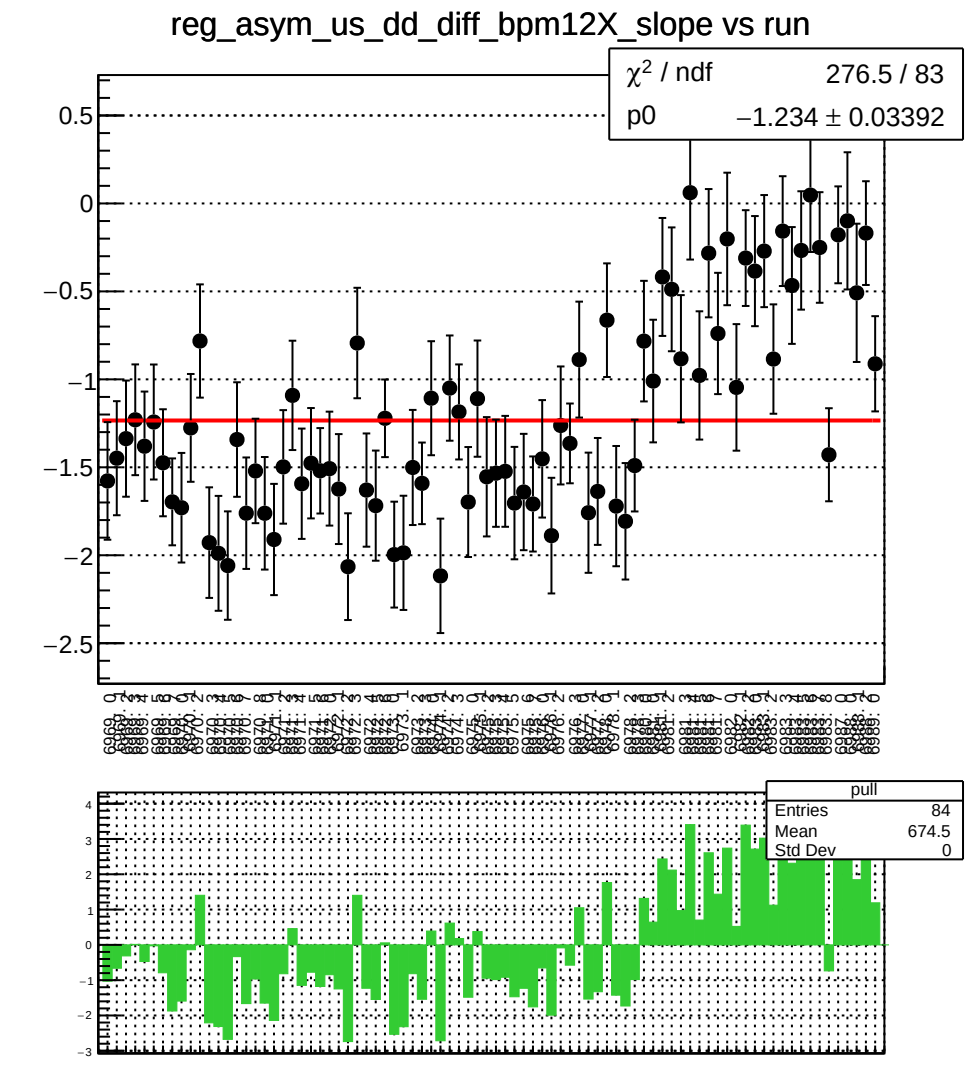

pull1D
Entries 84
Mean −0.0008253
Std Dev 0.7775

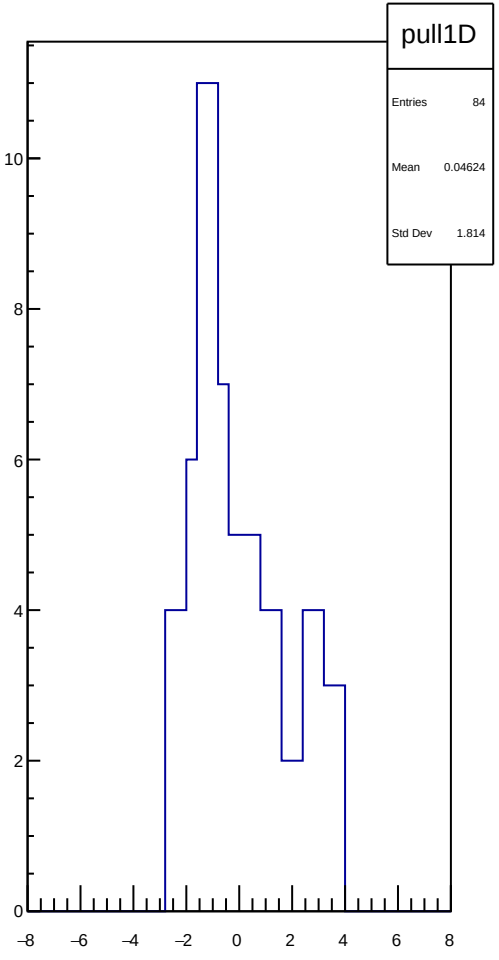

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.72 / 83
p0 −60.31 ± 1.04
pull
Entries 84
Mean 216
Std Dev 0

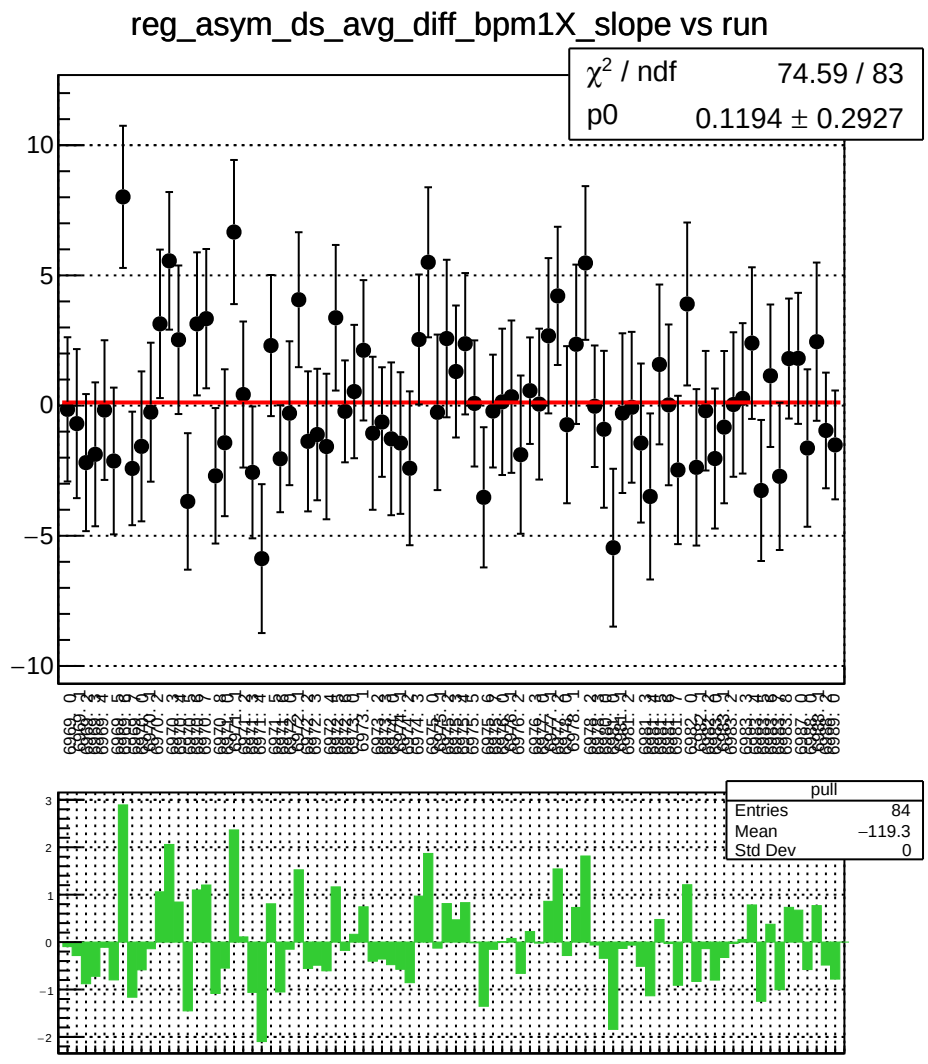

pull1D
Entries 84
Mean −0.01785
Std Dev 0.9043

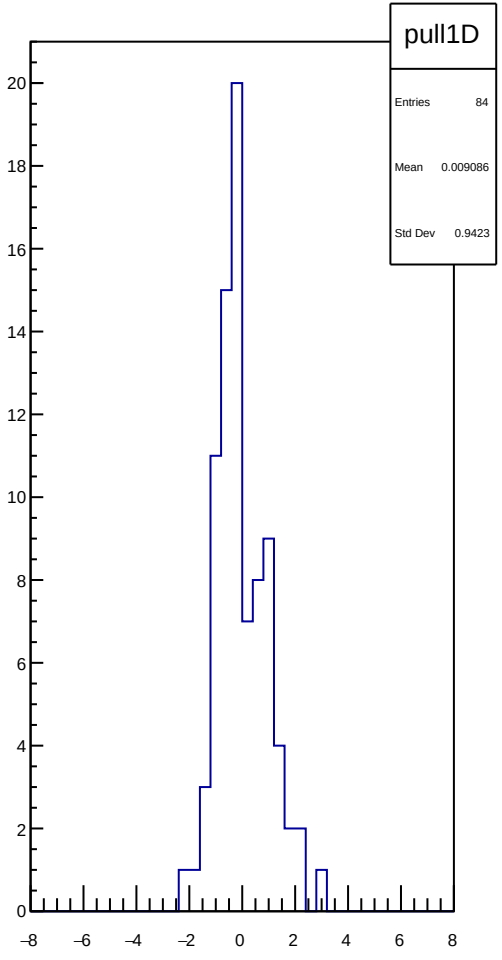

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.97 / 83
p0 4.111 ± 0.9106
pull
Entries 84
Mean −717.4
Std Dev 0

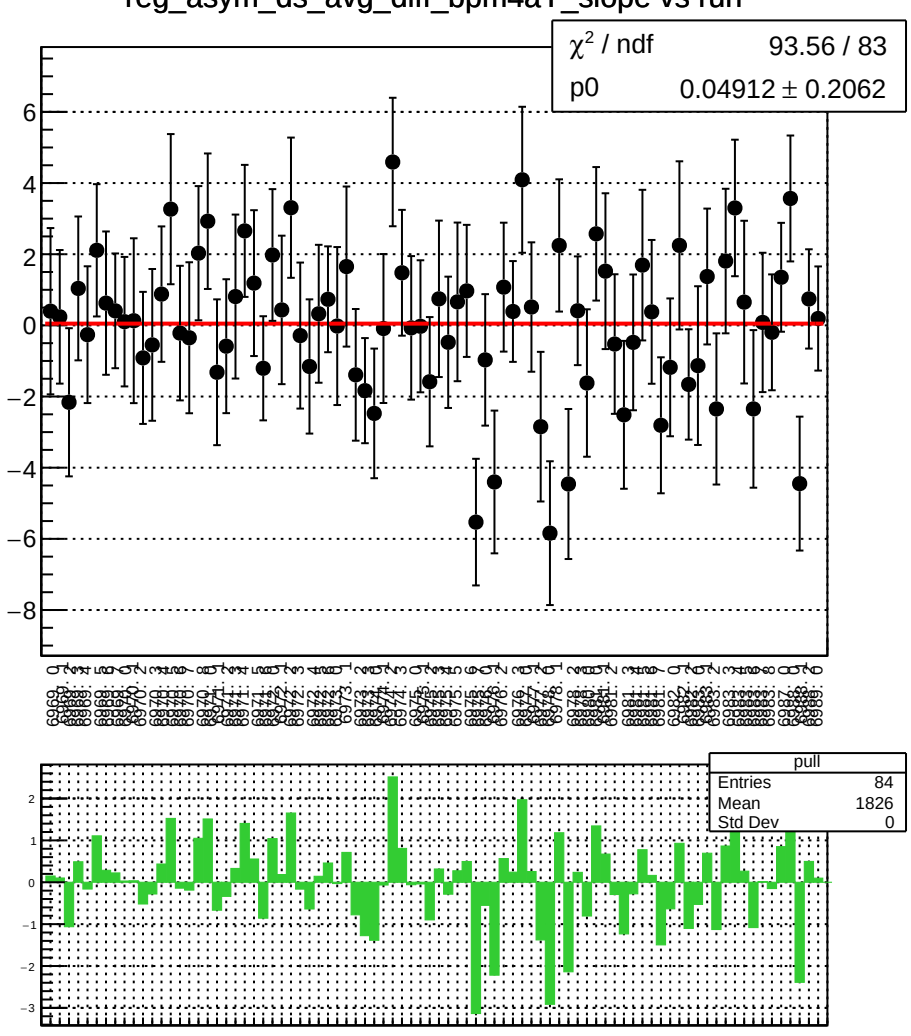

pull1D
Entries 84
Mean −0.002056
Std Dev 0.7866

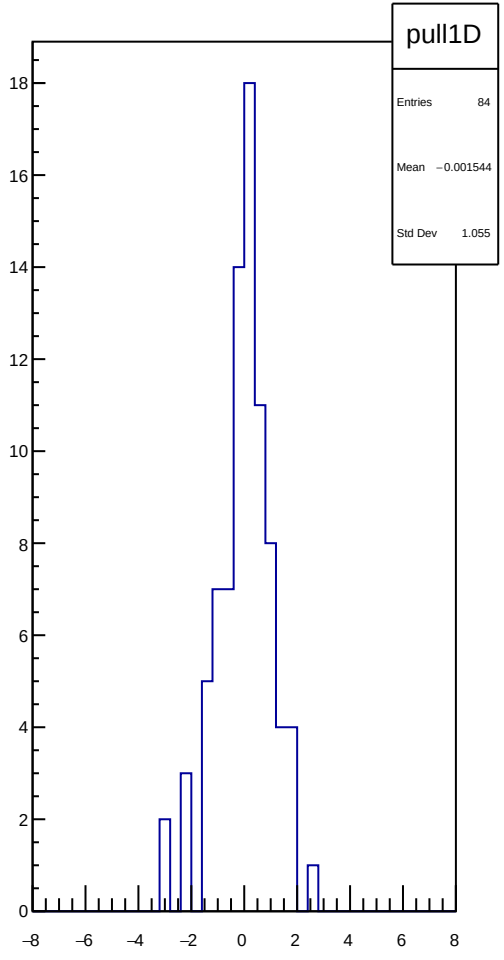

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 276.5 / 83
p0 −1.234 ± 0.03392
pull
Entries 84
Mean 674.5
Std Dev 0

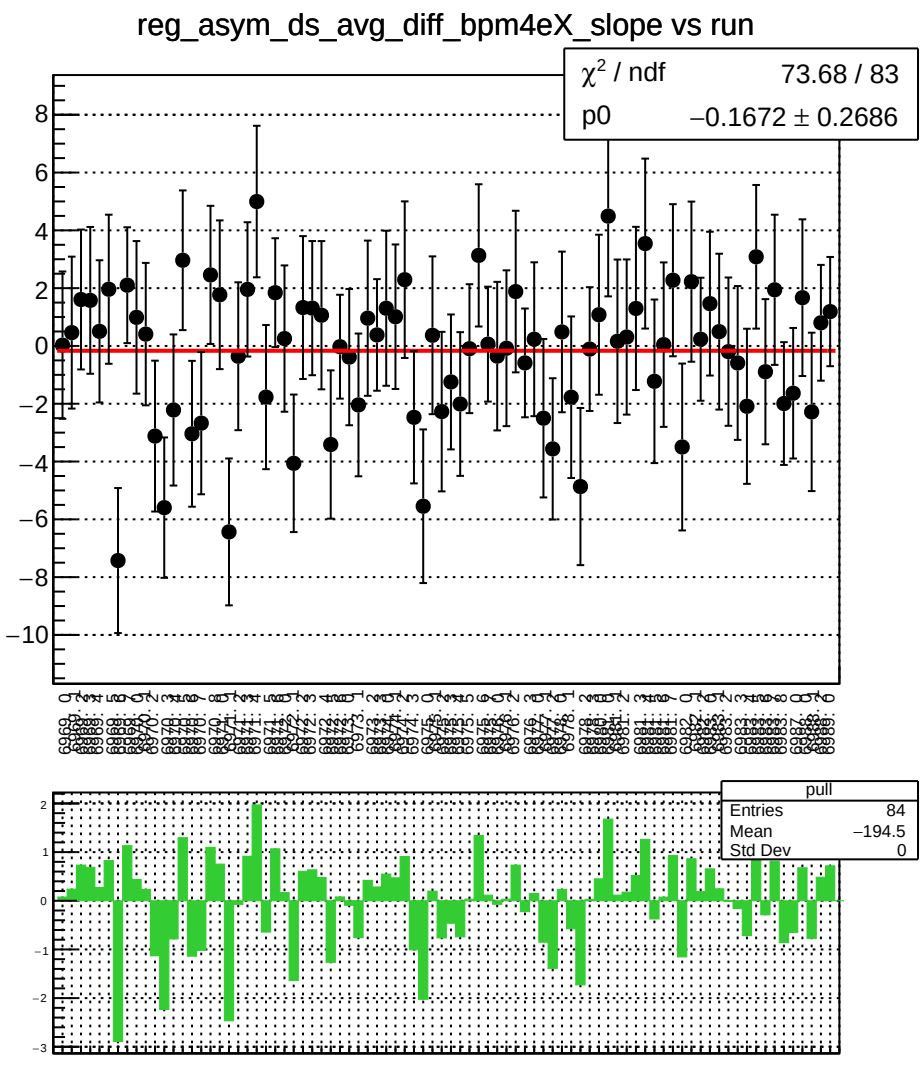

pull1D
Entries 84
Mean 0.04624
Std Dev 1.814

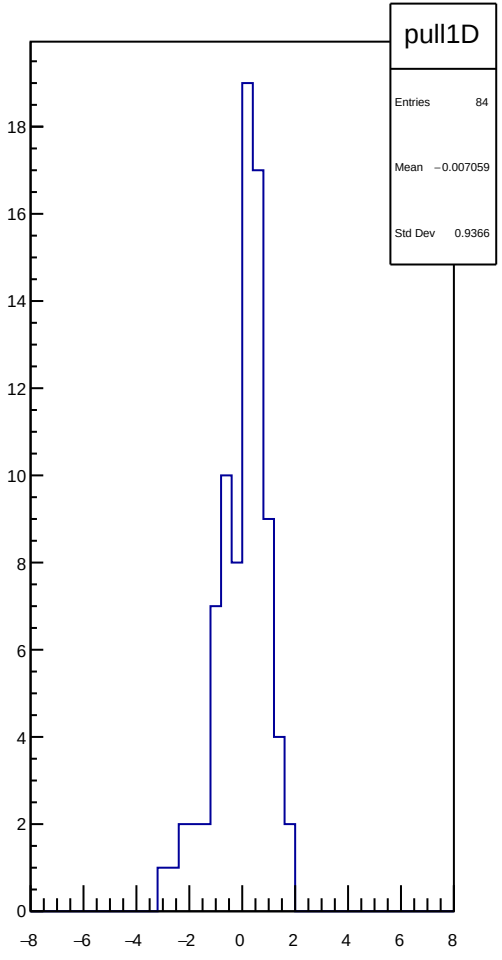

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 74.59 / 83
p0 0.1194 ± 0.2927
pull
Entries 84
Mean −119.3
Std Dev 0

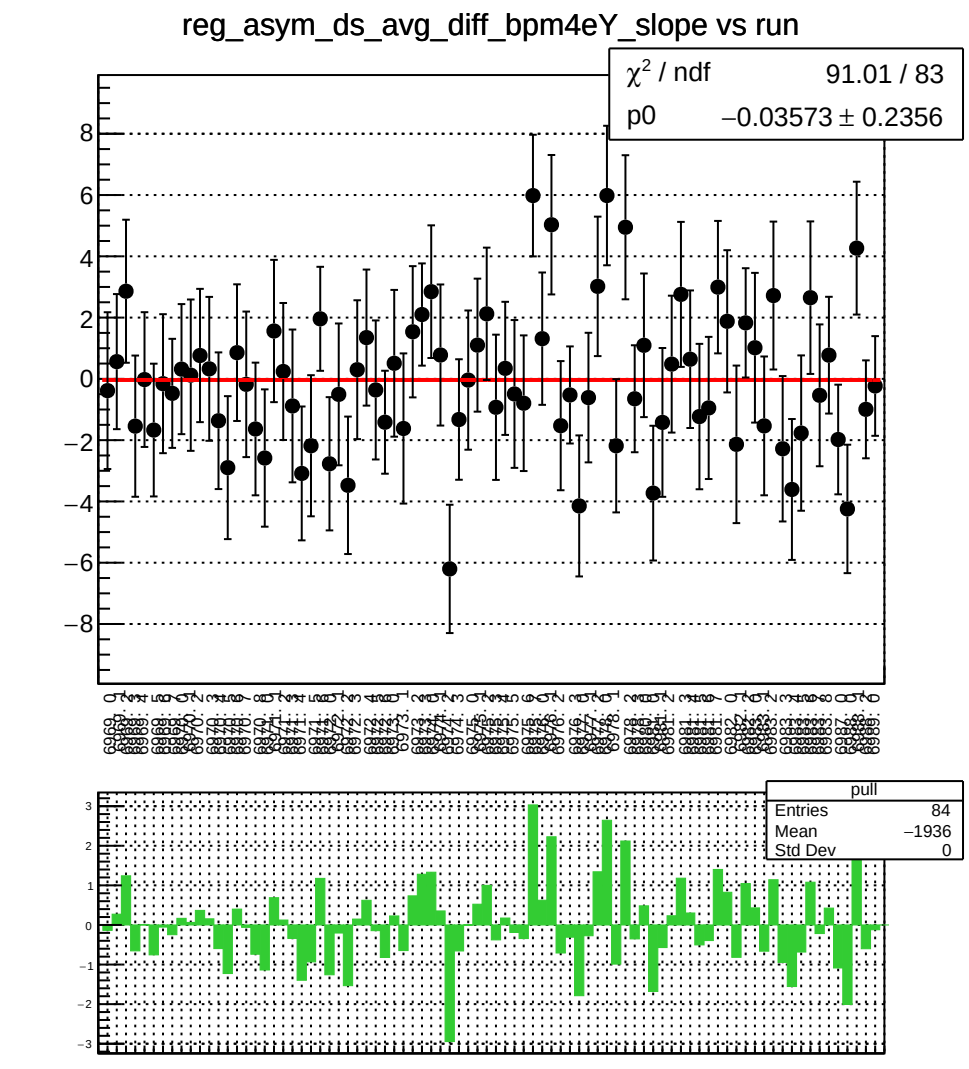

pull1D
Entries 84
Mean 0.009086
Std Dev 0.9423

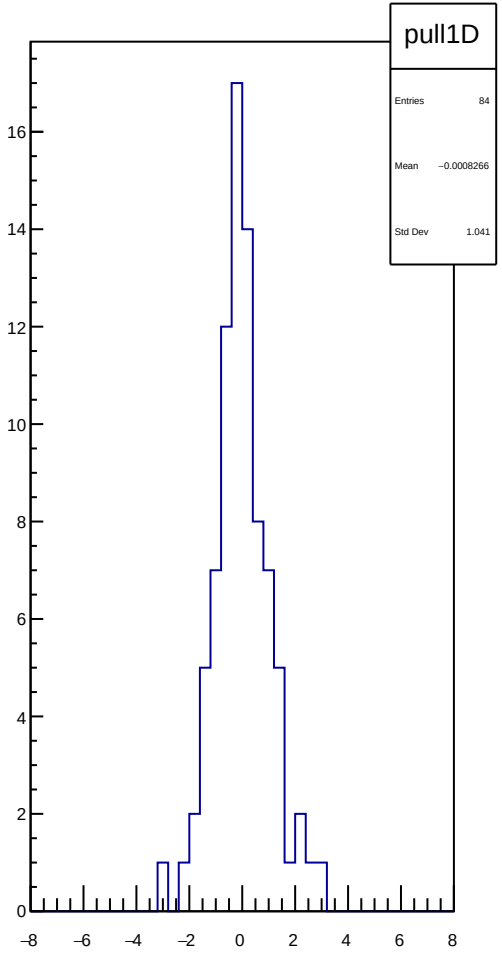

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 93.56 / 83
p0 0.04912 ± 0.2062
pull
Entries 84
Mean 1826
Std Dev 0

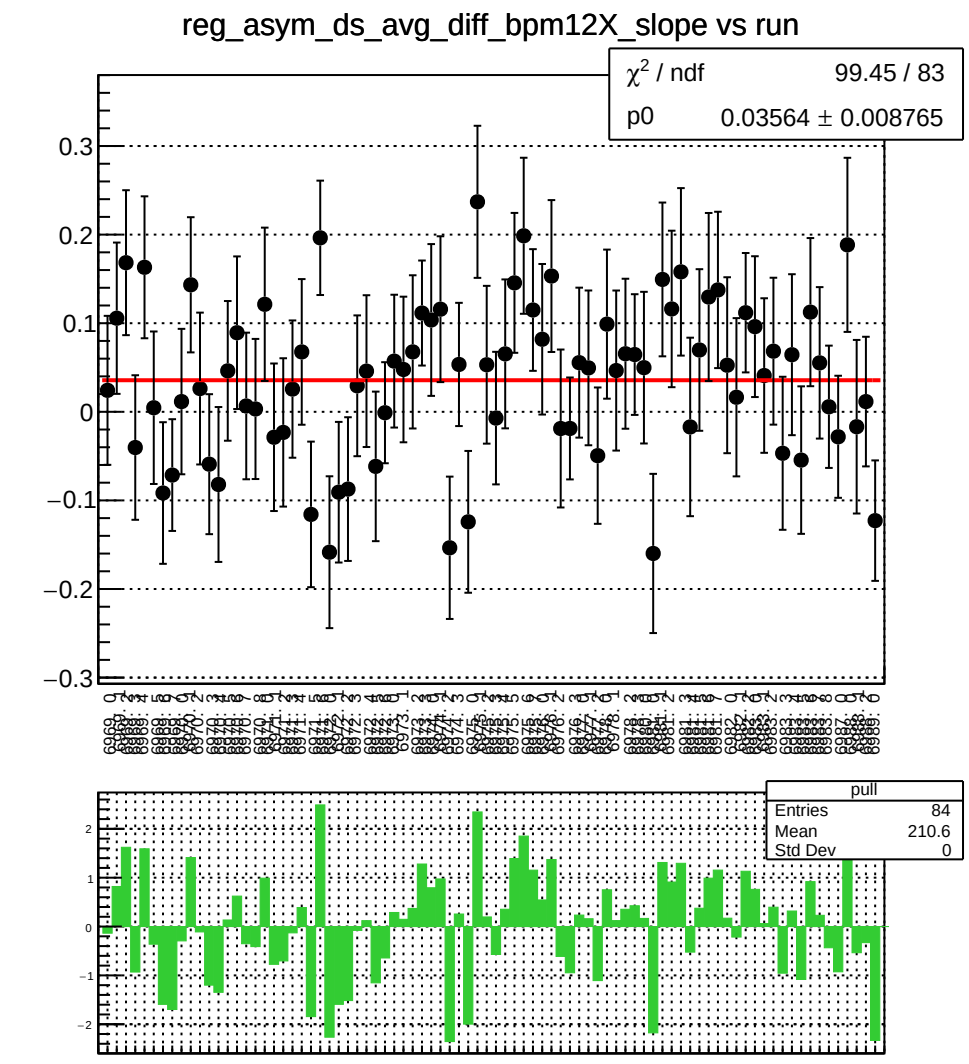

pull1D
Entries 84
Mean −0.001544
Std Dev 1.055

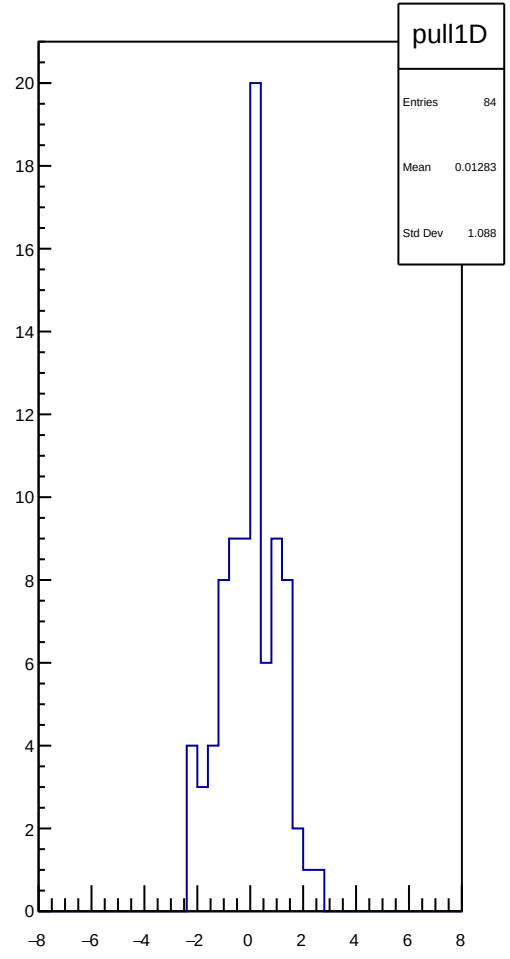

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 73.68 / 83
p0 −0.1672 ± 0.2686
pull
Entries 84
Mean −194.5
Std Dev 0

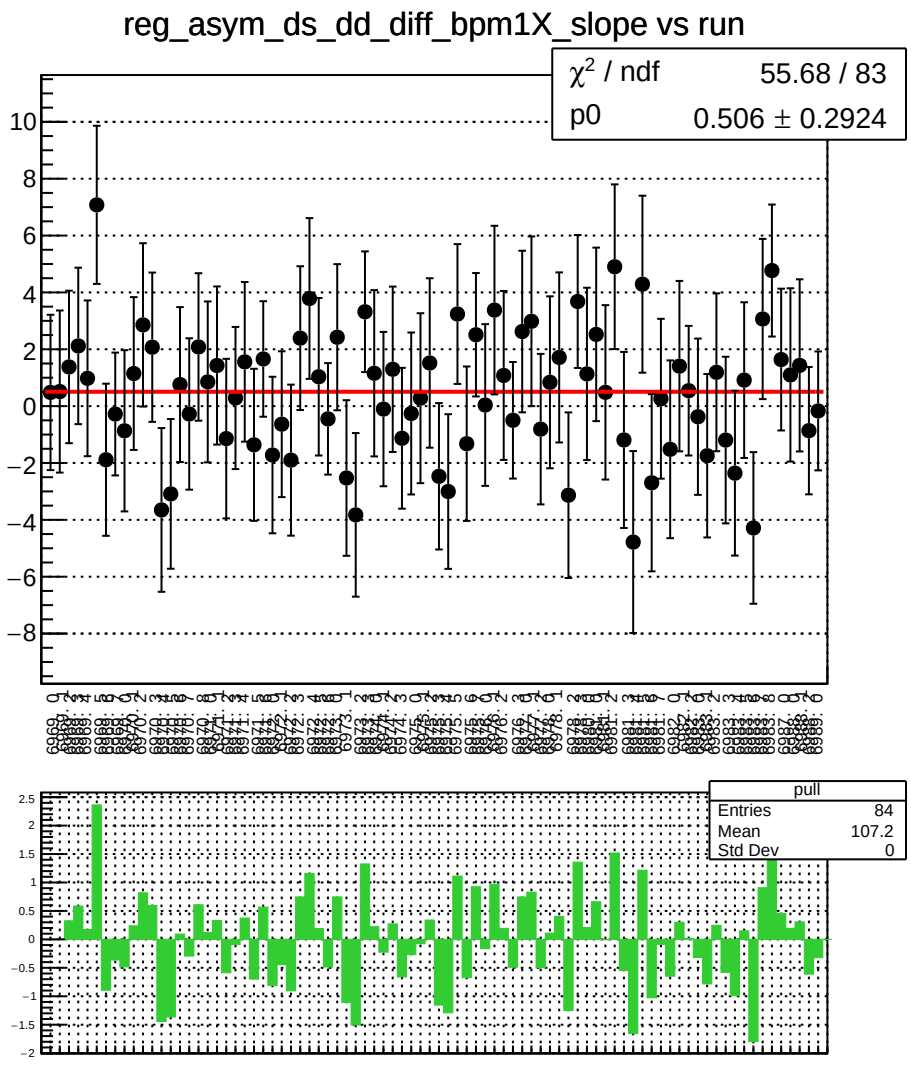

pull1D
Entries 84
Mean −0.007059
Std Dev 0.9366

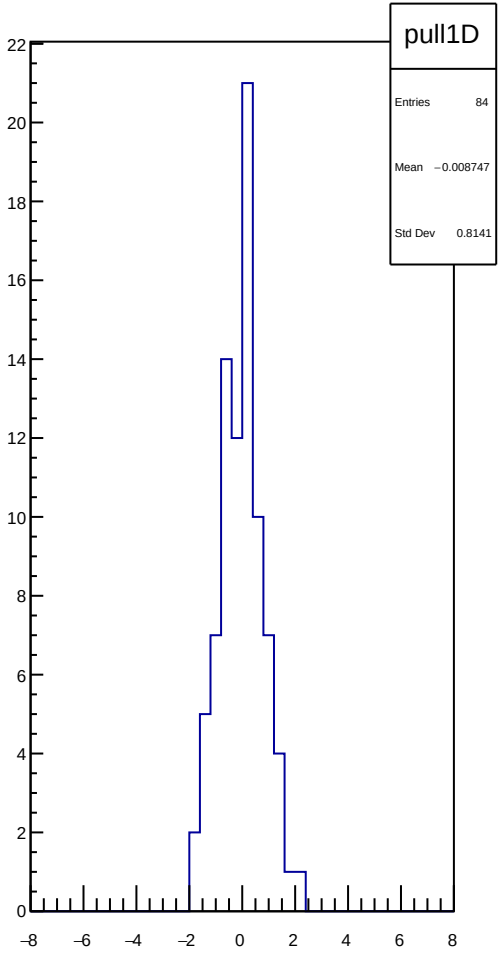

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.01 / 83
p0 −0.03573 ± 0.2356
pull
Entries 84
Mean −1936
Std Dev 0

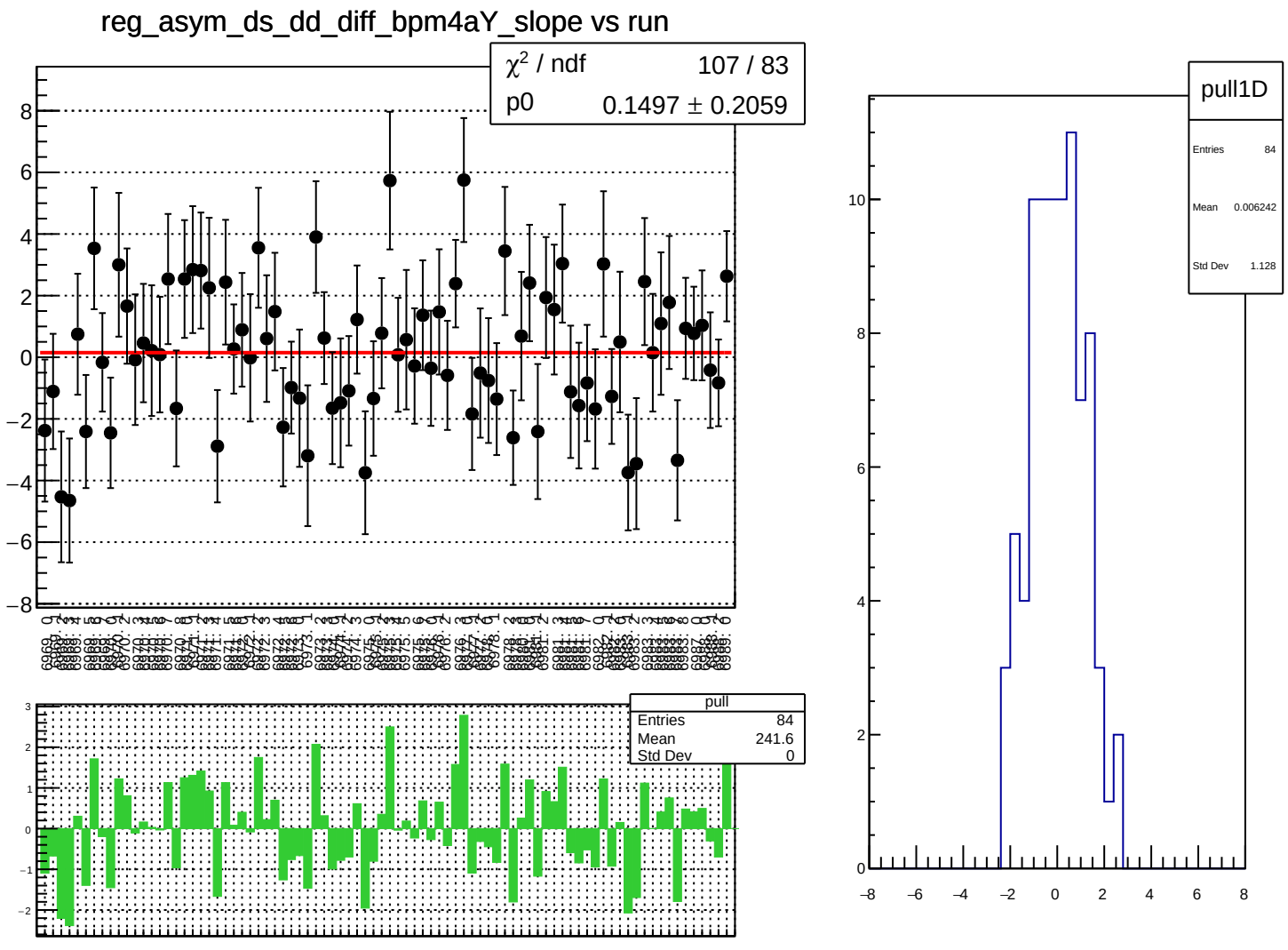

pull1D
Entries 84
Mean −0.0008266
Std Dev 1.041

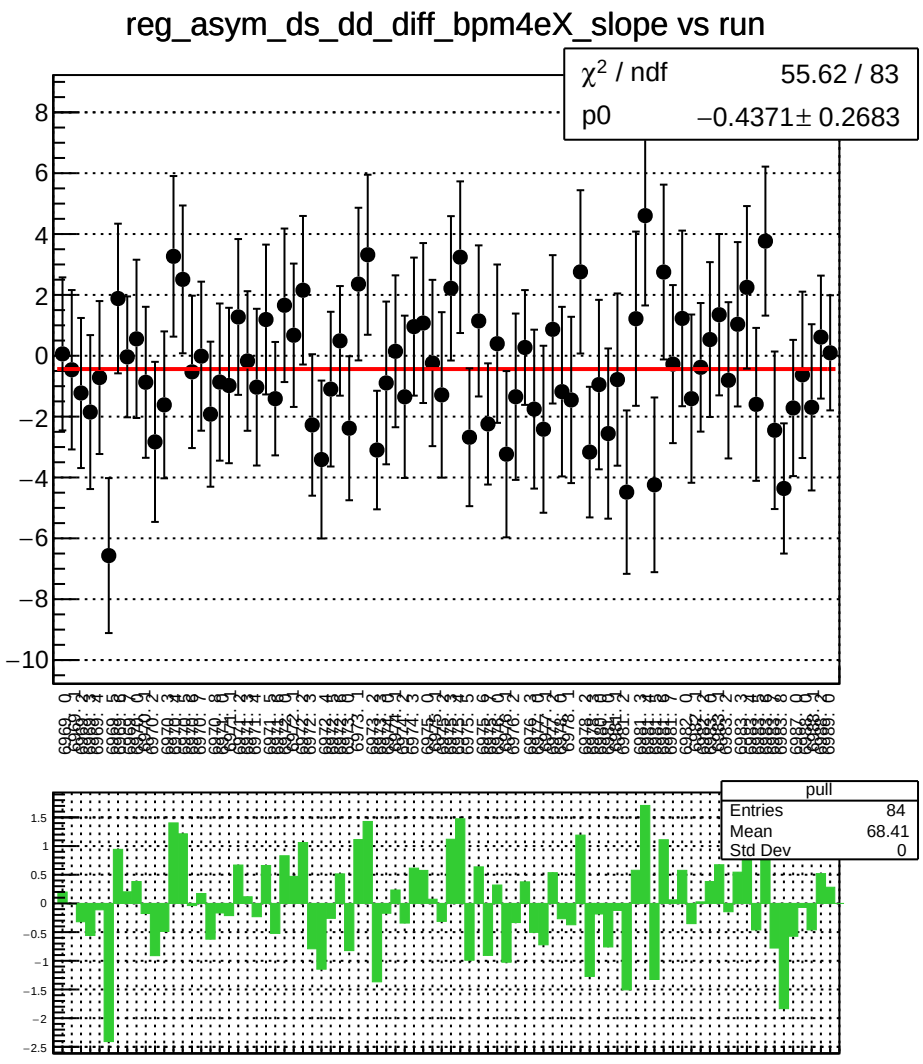

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 99.45 / 83
p0 0.03564 ± 0.008765
pull
Entries 84
Mean 210.6
Std Dev 0

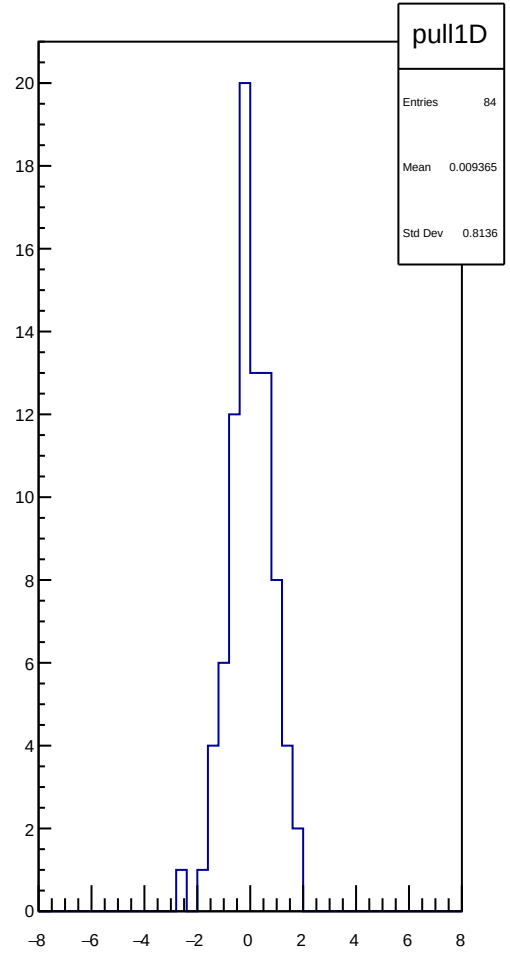

pull1D
Entries 84
Mean 0.01283
Std Dev 1.088

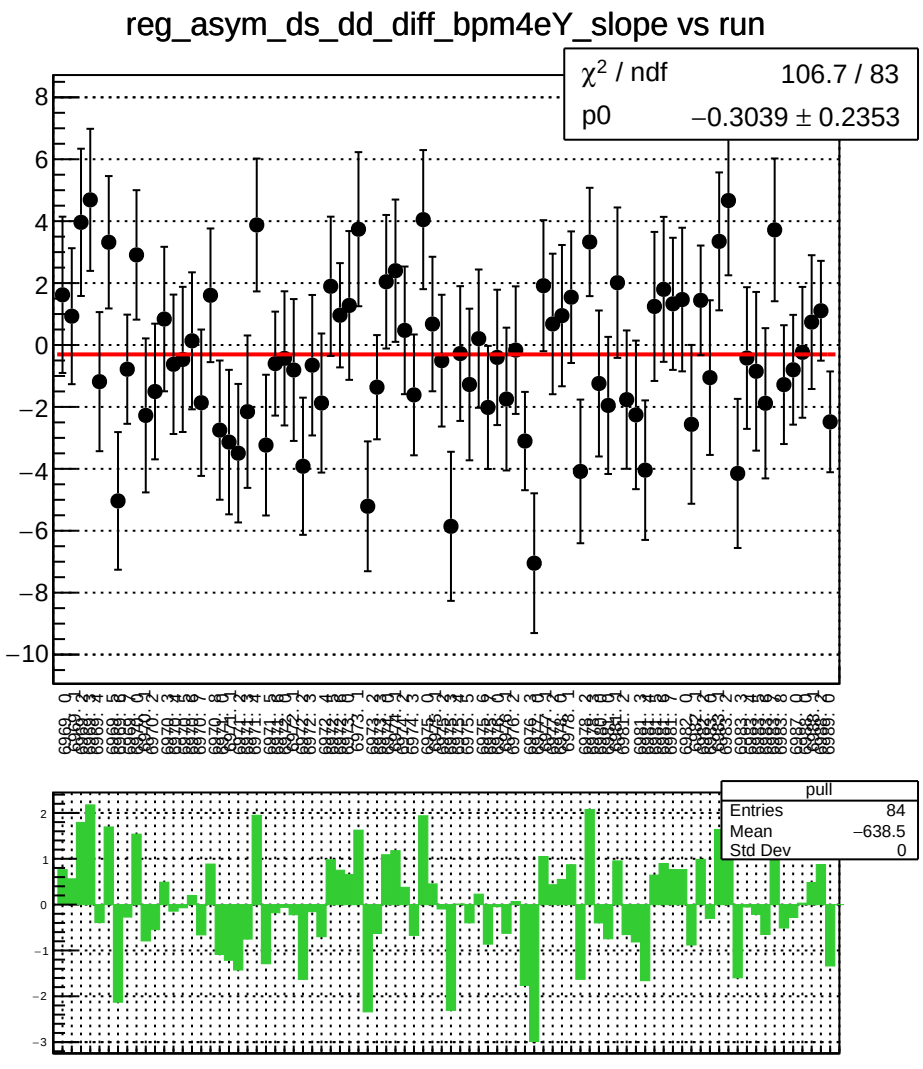

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 55.68 / 83
p0 0.506 ± 0.2924
pull
Entries 84
Mean 107.2
Std Dev 0

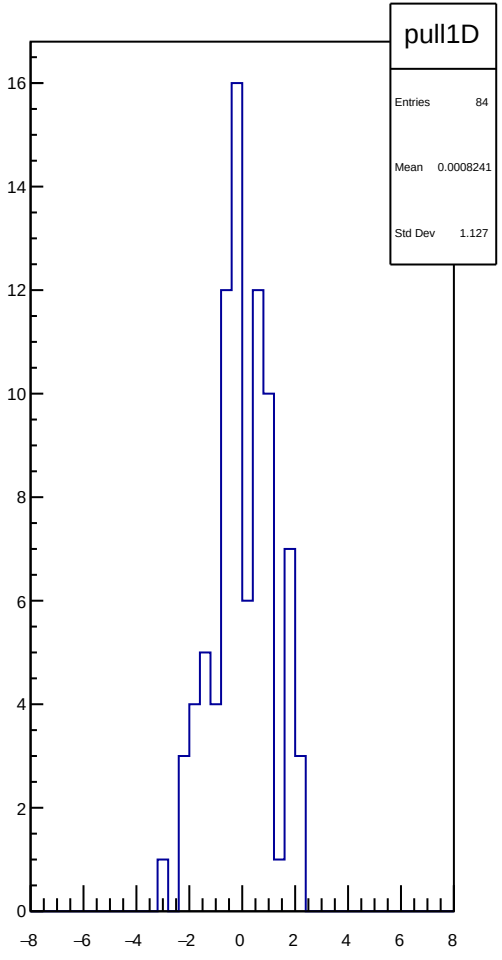

pull1D
Entries 84
Mean −0.008747
Std Dev 0.8141

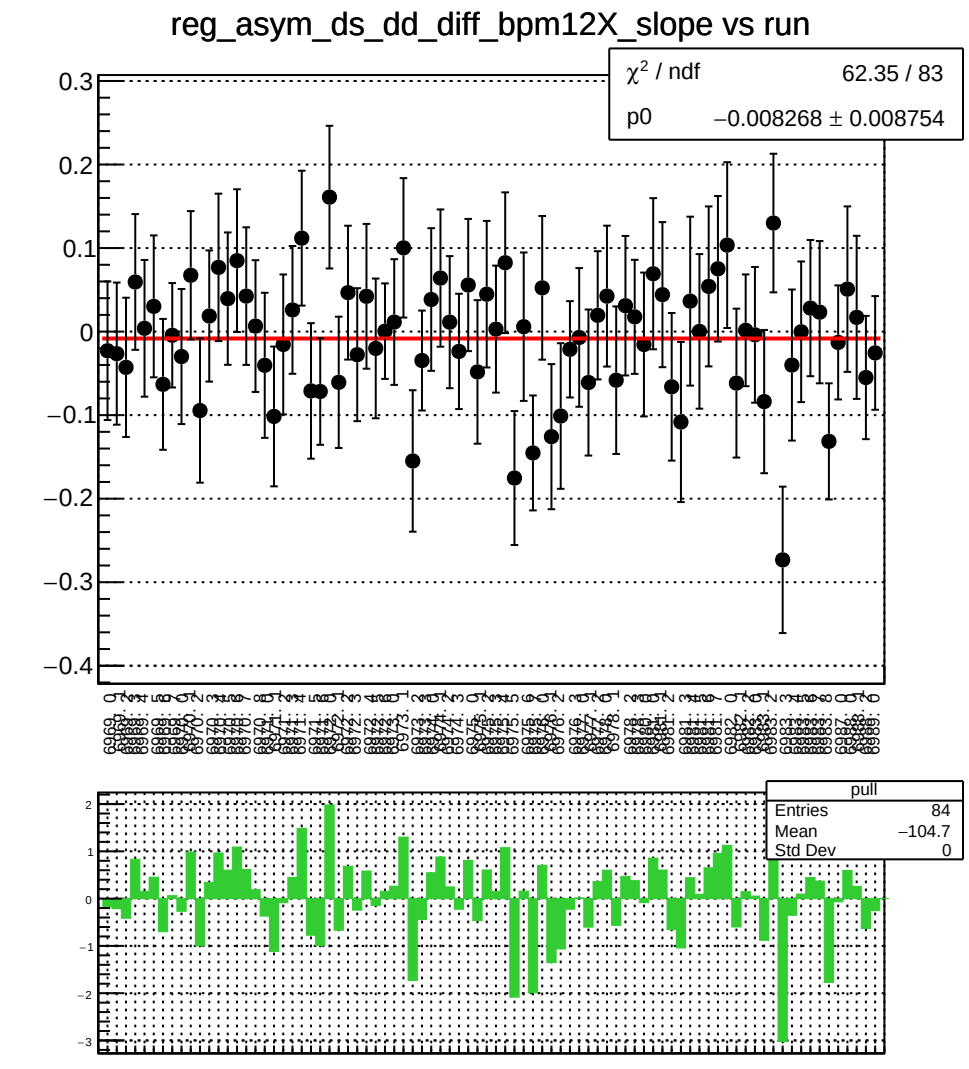

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 107 / 83
p0 0.1497 ± 0.2059
pull
Entries 84
Mean 241.6
Std Dev 0
pull1D
Entries 84
Mean 0.006242
Std Dev 1.128

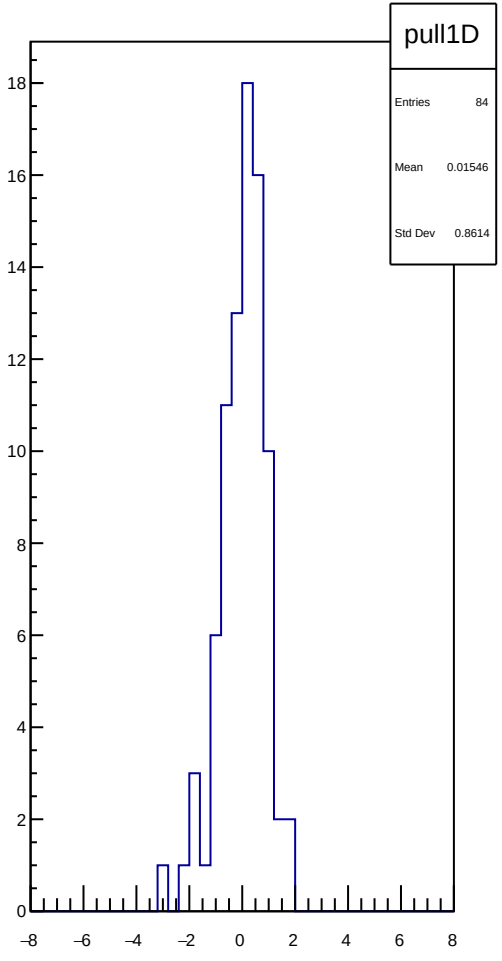

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.62 / 83
p0 −0.4371± 0.2683
pull
Entries 84
Mean 68.41
Std Dev 0

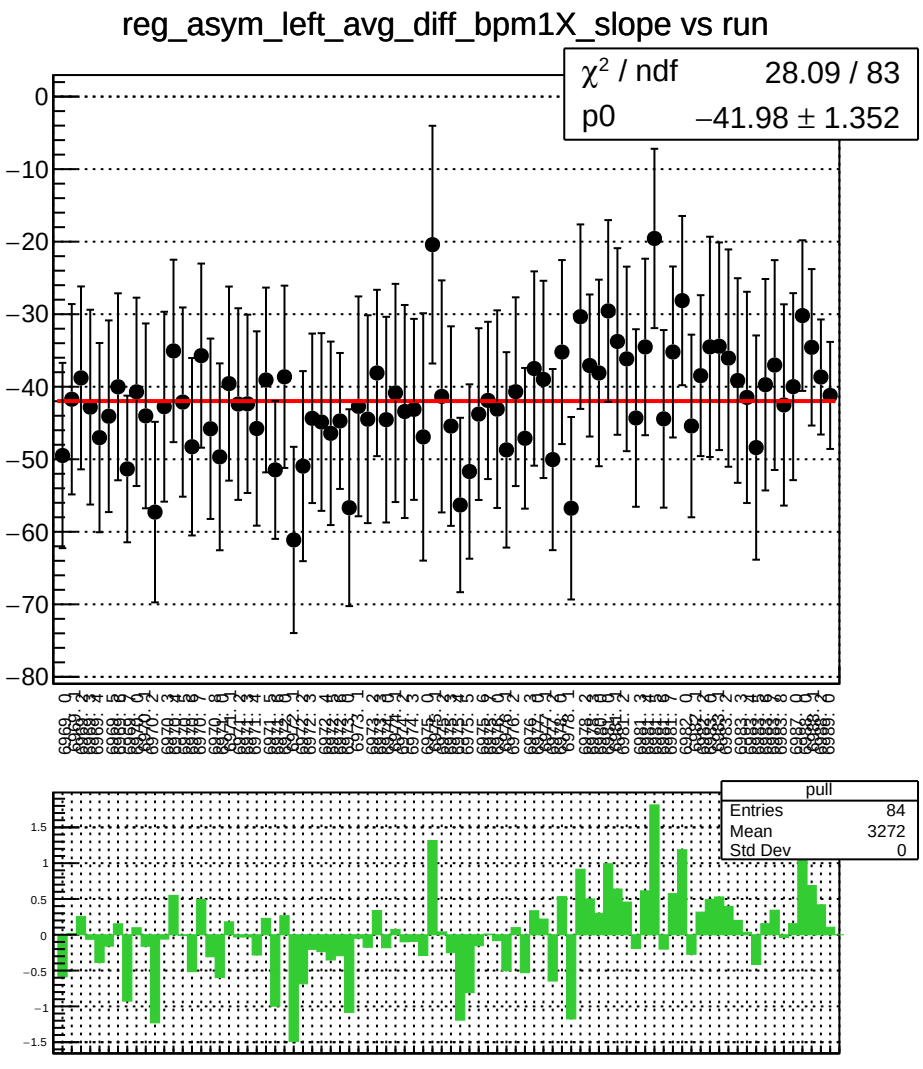

pull1D
Entries 84
Mean 0.009365
Std Dev 0.8136

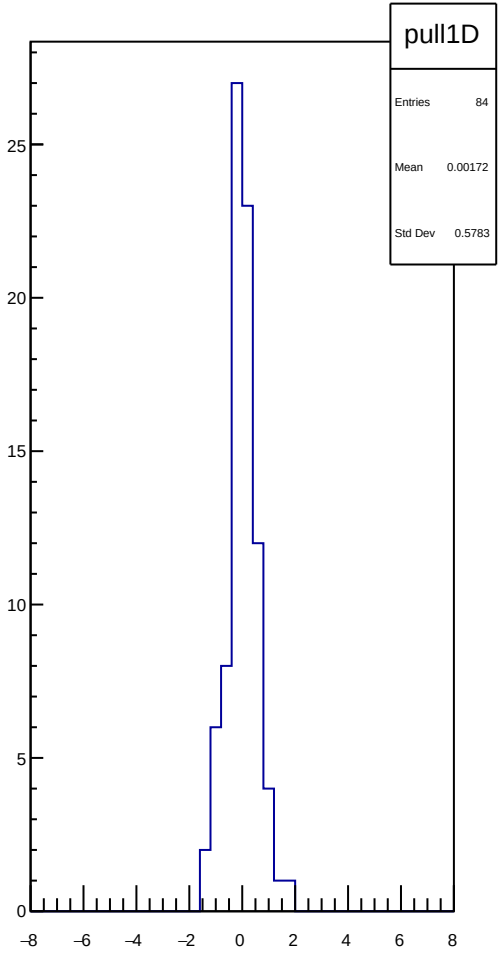

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 106.7 / 83
p0 −0.3039 ± 0.2353
pull
Entries 84
Mean −638.5
Std Dev 0

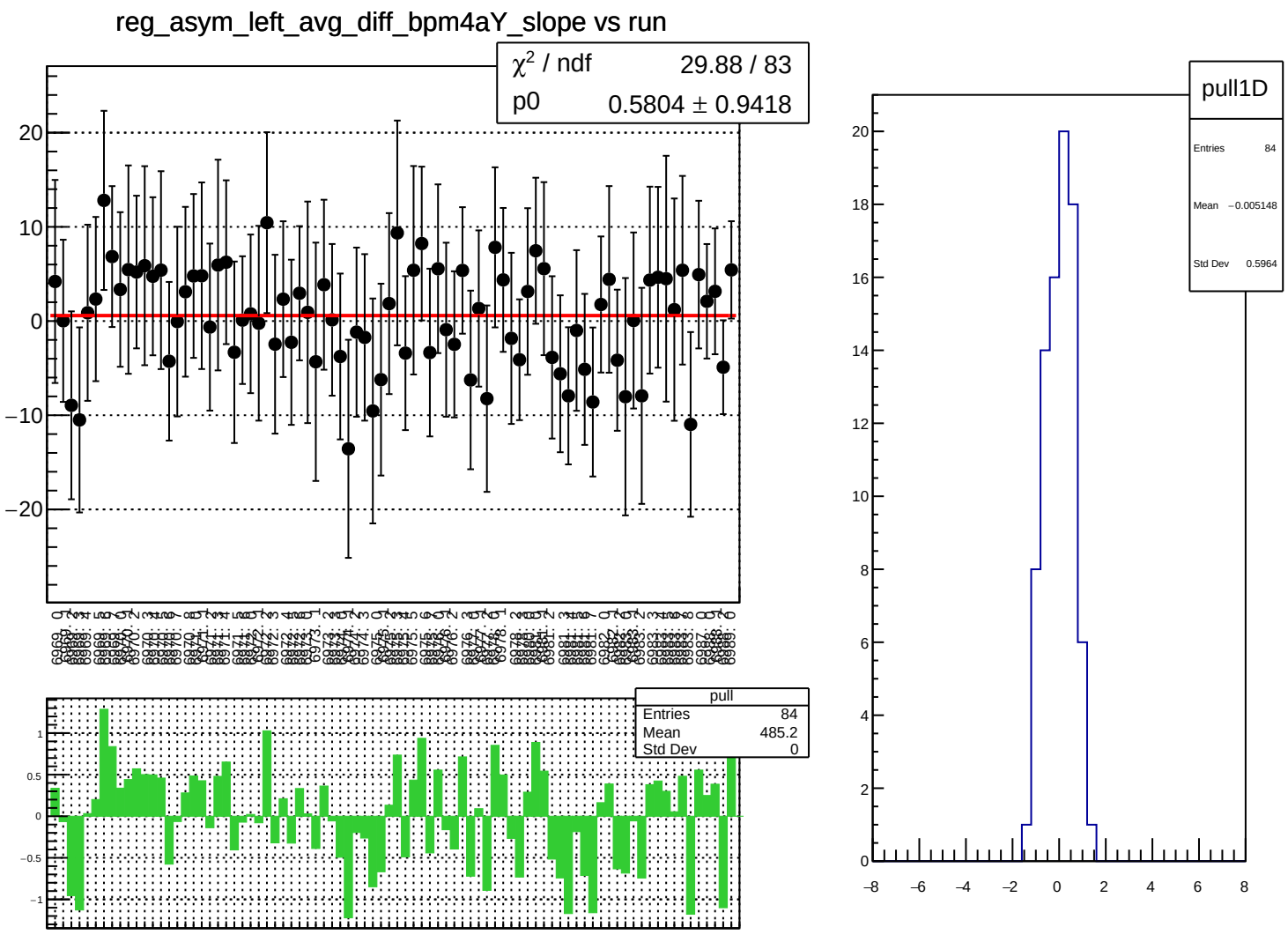

pull1D
Entries 84
Mean 0.0008241
Std Dev 1.127

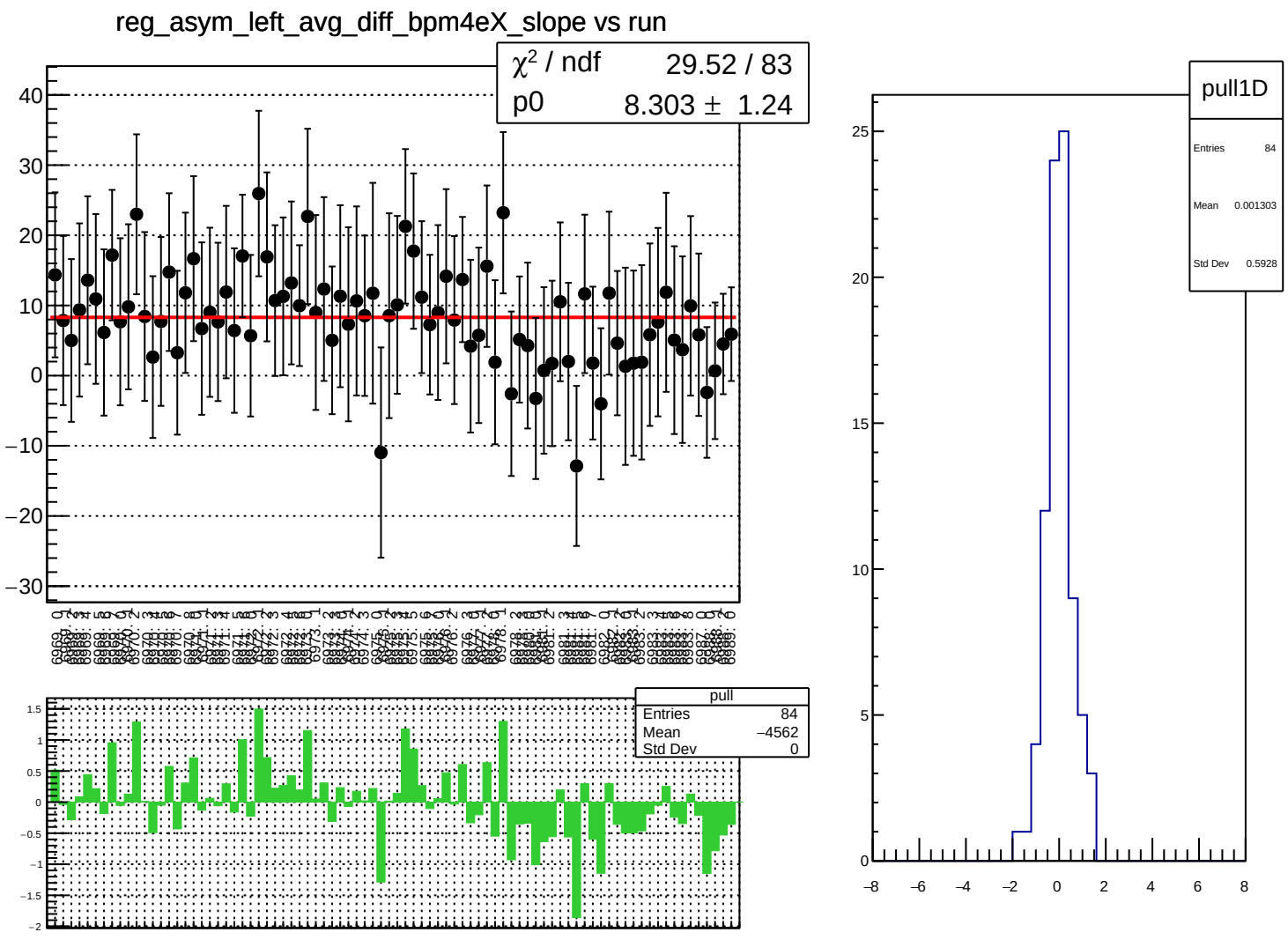

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 62.35 / 83
p0 −0.008268 ± 0.008754
pull
Entries 84
Mean −104.7
Std Dev 0

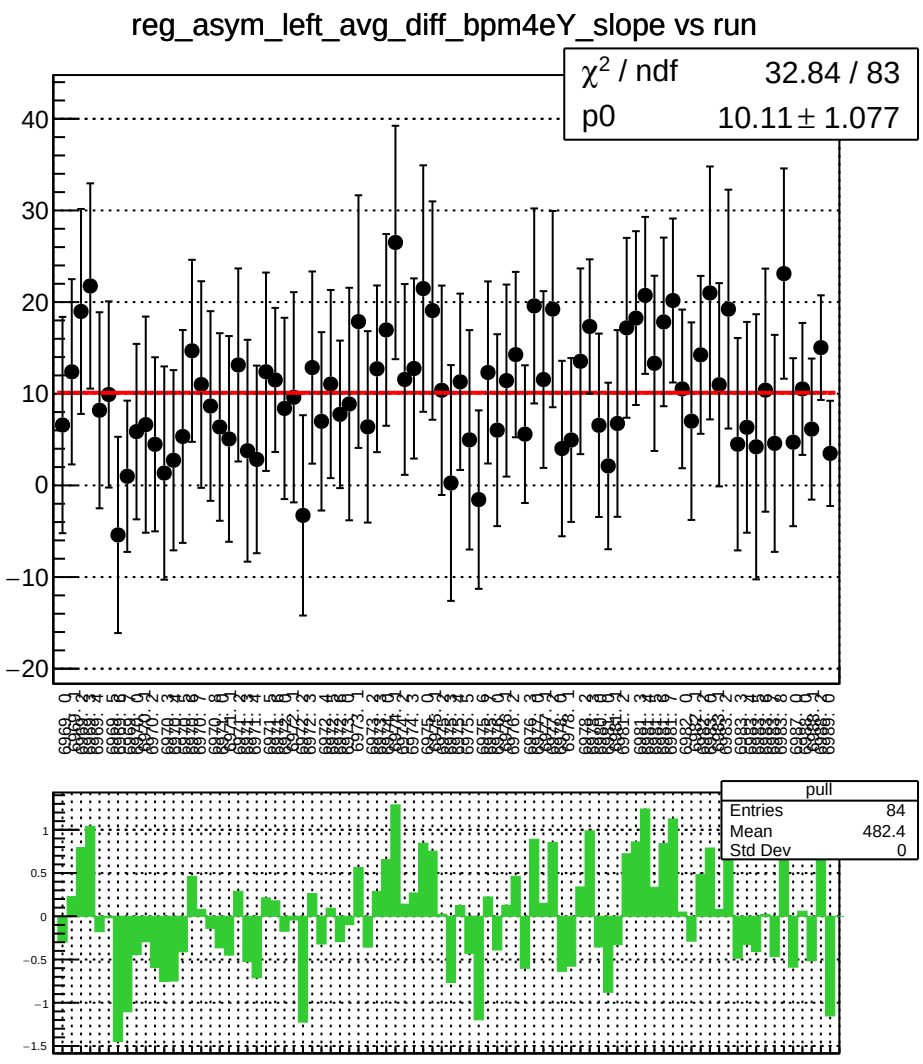

pull1D
Entries 84
Mean 0.01546
Std Dev 0.8614

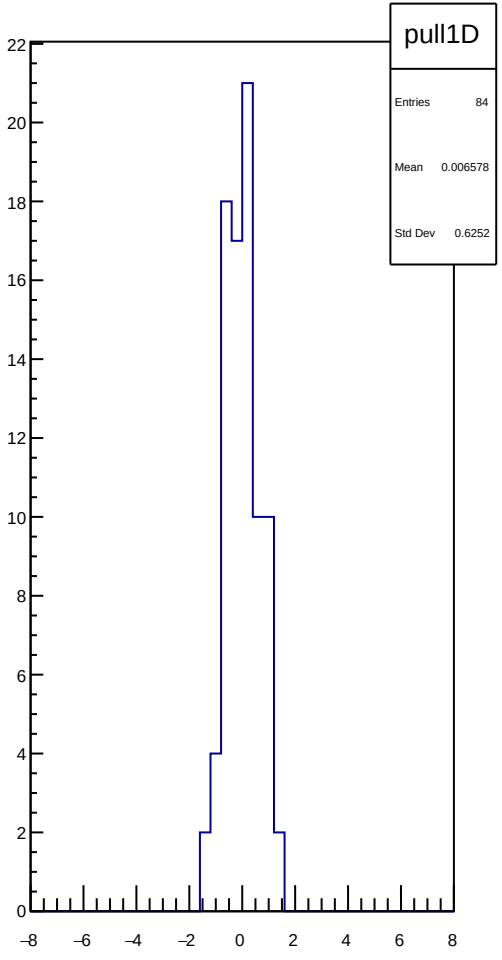

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 28.09 / 83
p0 −41.98 ± 1.352
pull
Entries 84
Mean 3272
Std Dev 0

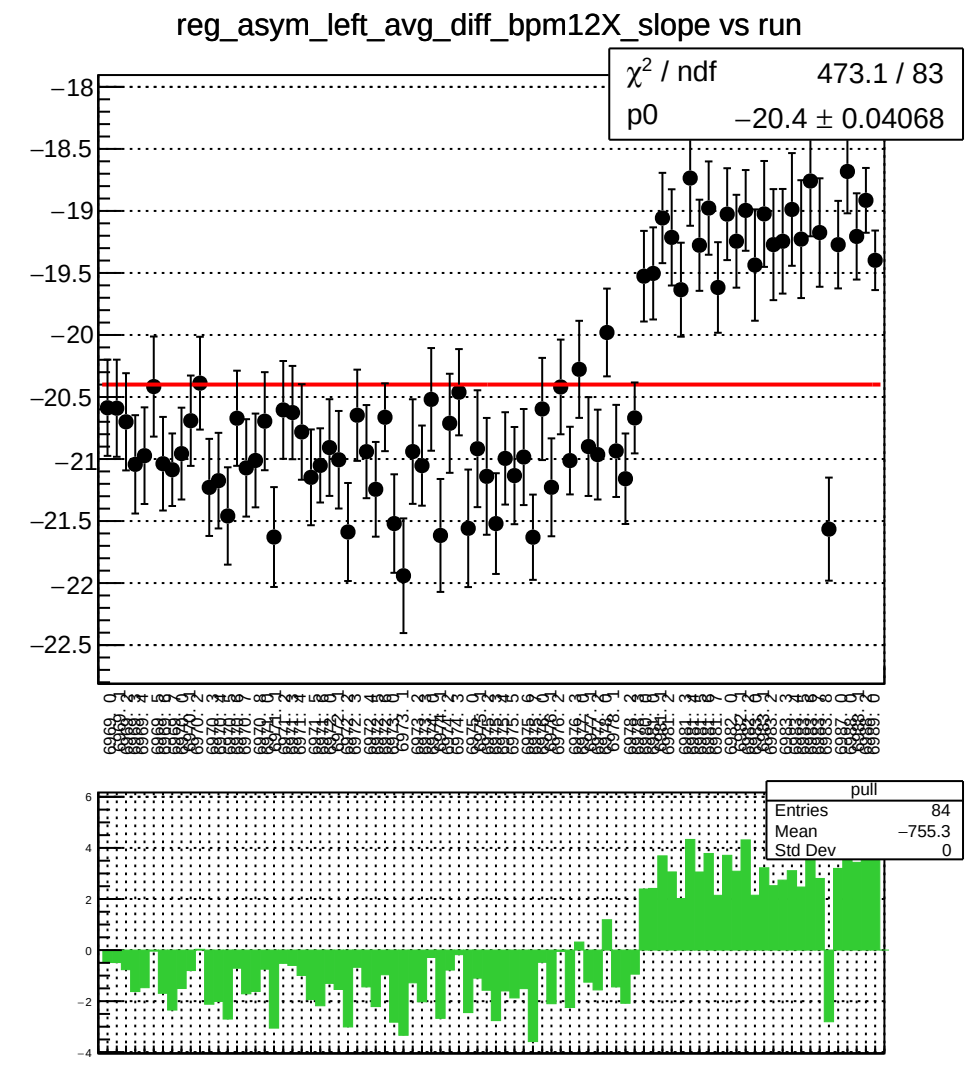

pull1D
Entries 84
Mean 0.00172
Std Dev 0.5783

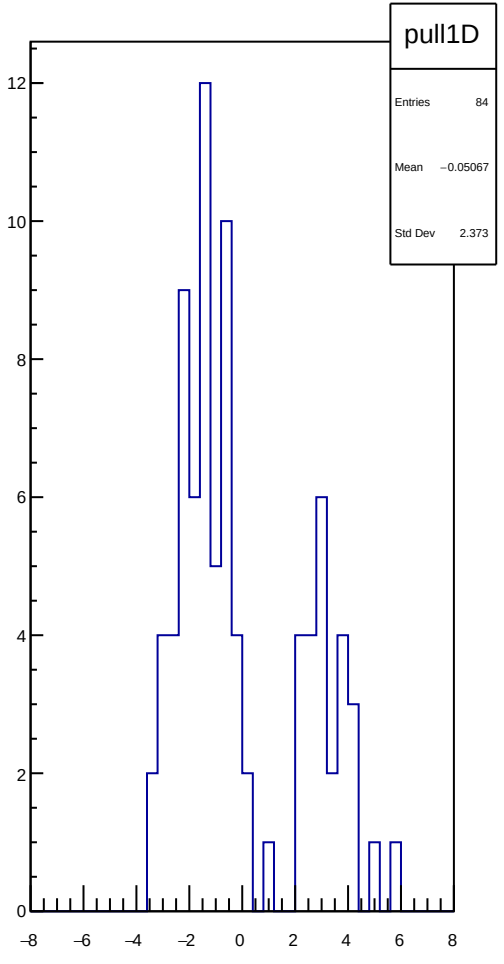

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.88 / 83
p0 0.5804 ± 0.9418
pull
Entries 84
Mean 485.2
Std Dev 0
pull1D
Entries 84
Mean −0.005148
Std Dev 0.5964

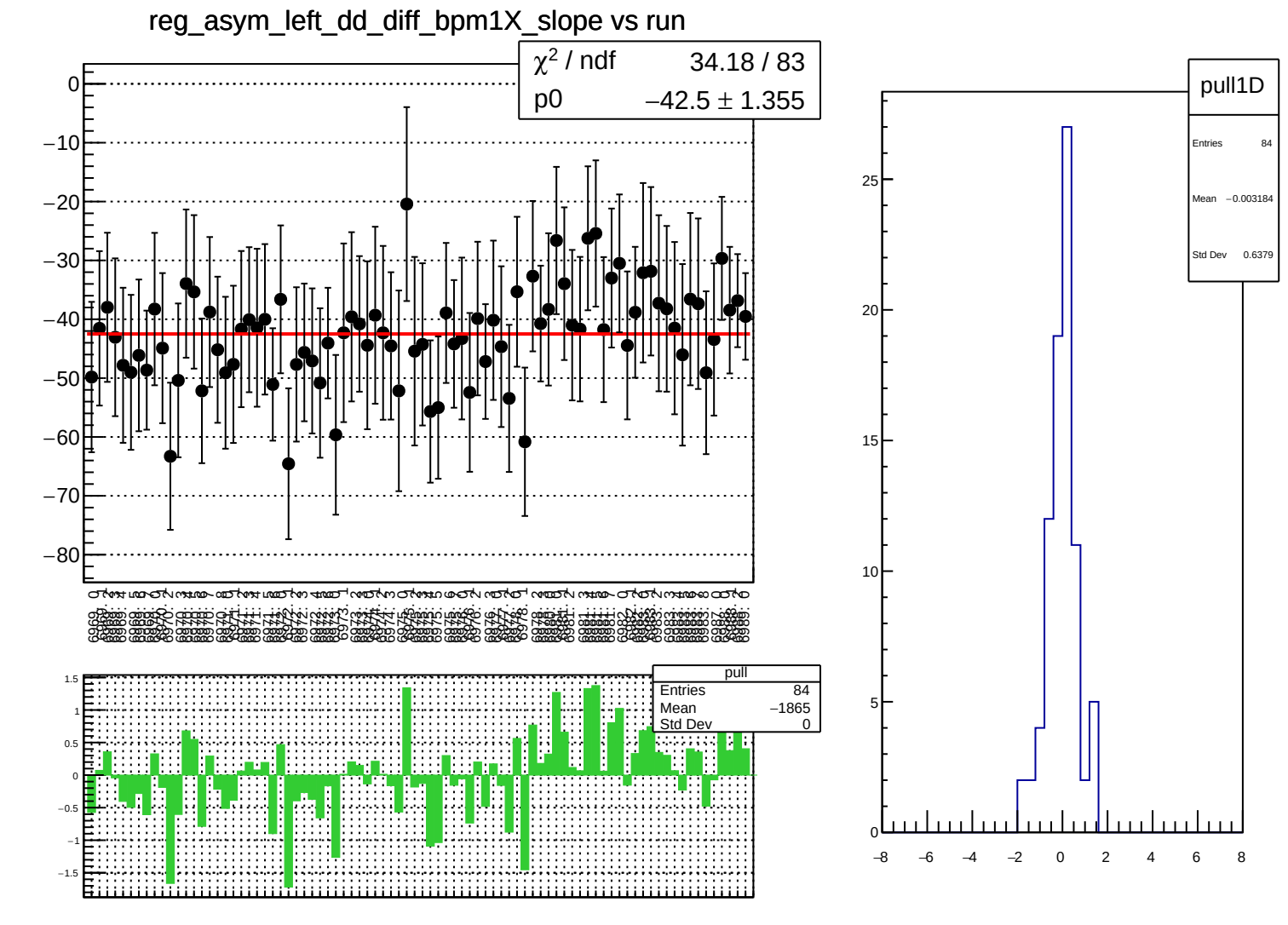

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.52 / 83
p0 8.303 ± 1.24
pull
Entries 84
Mean −4562
Std Dev 0
pull1D
Entries 84
Mean 0.001303
Std Dev 0.5928

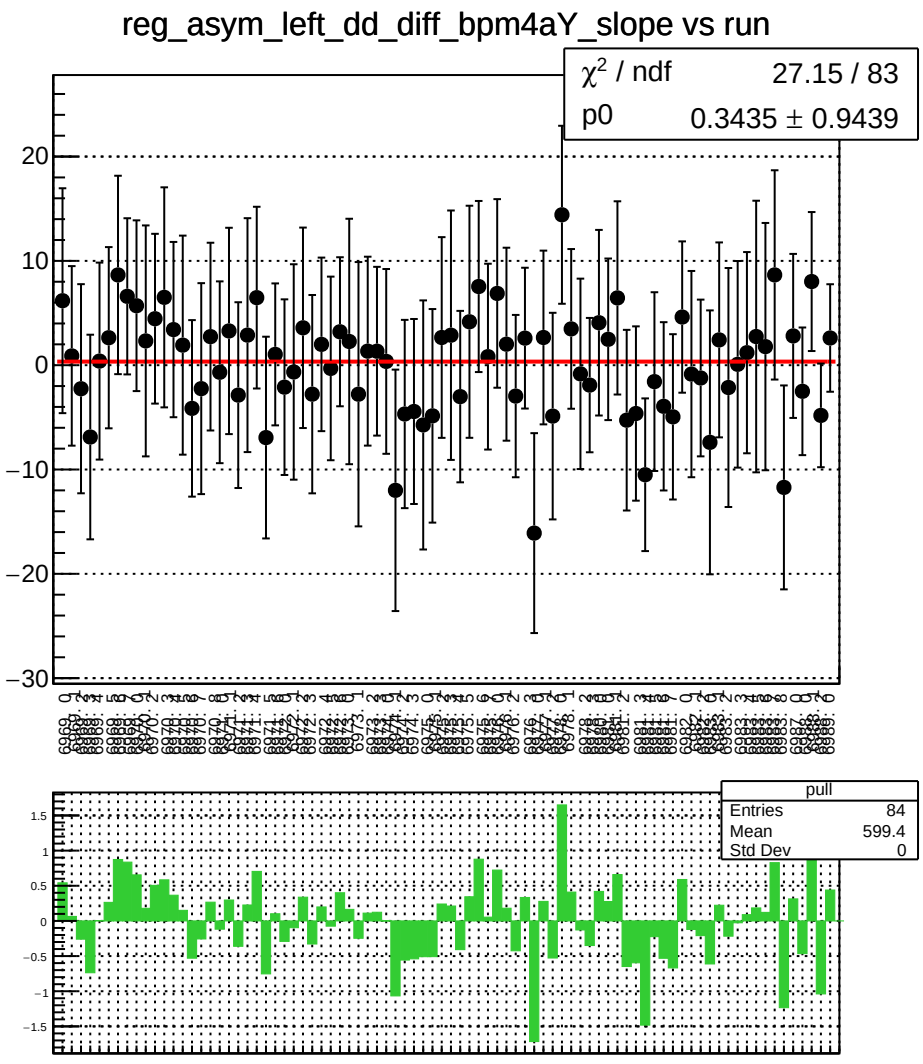

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.84 / 83
p0 10.11 ± 1.077
pull
Entries 84
Mean 482.4
Std Dev 0

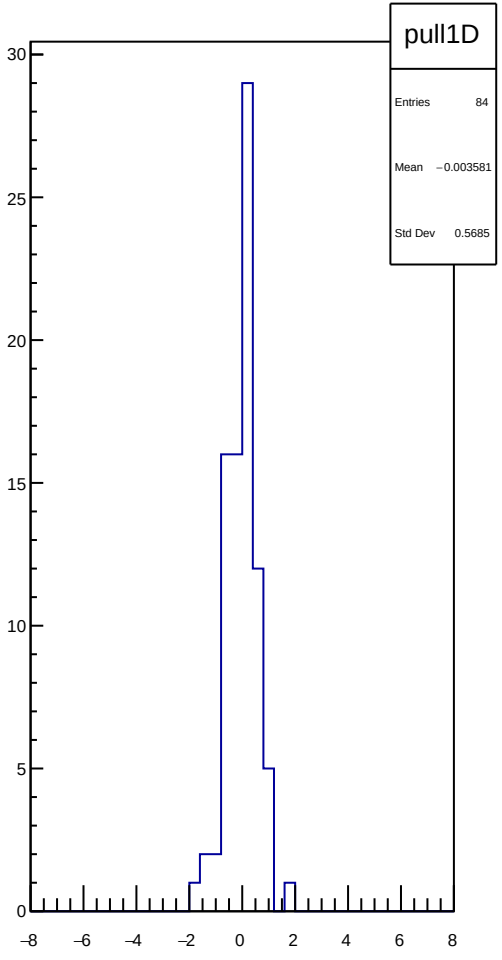

pull1D
Entries 84
Mean 0.006578
Std Dev 0.6252

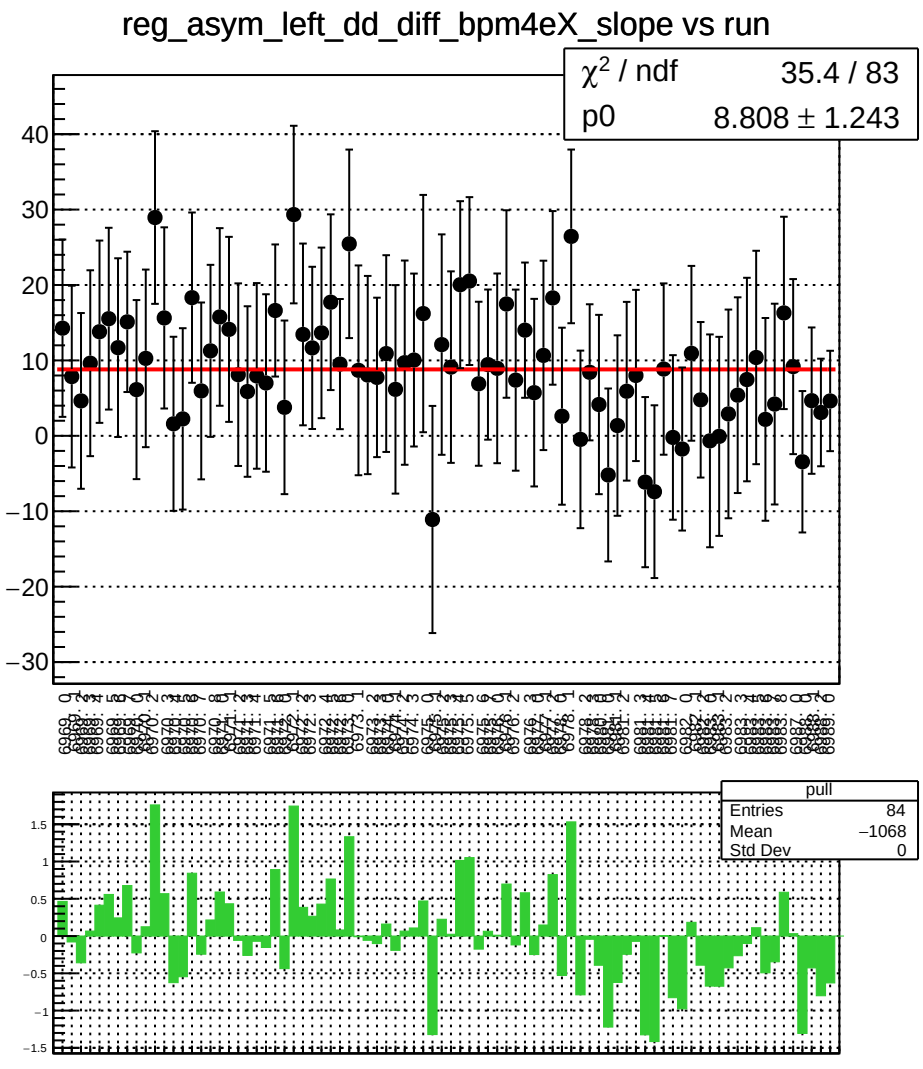

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 473.1 / 83
p0 −20.4 ± 0.04068
pull
Entries 84
Mean −755.3
Std Dev 0

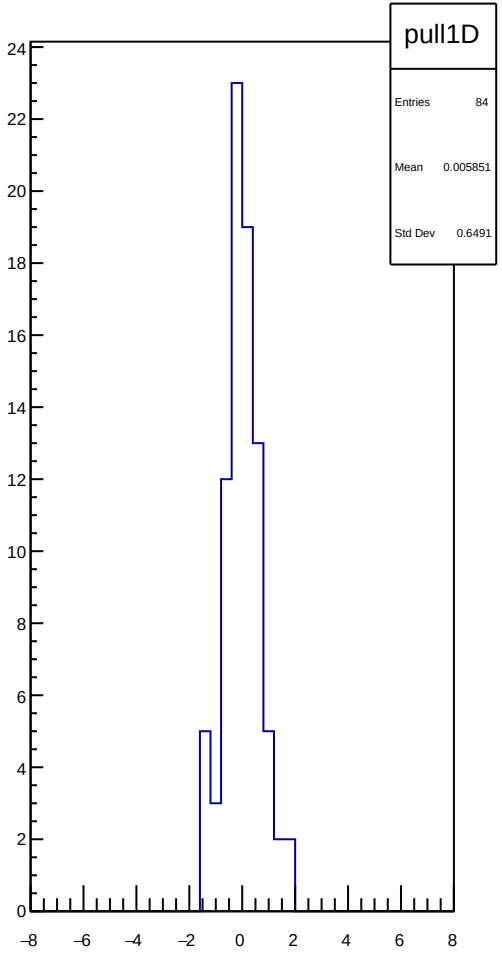

pull1D
Entries 84
Mean −0.05067
Std Dev 2.373

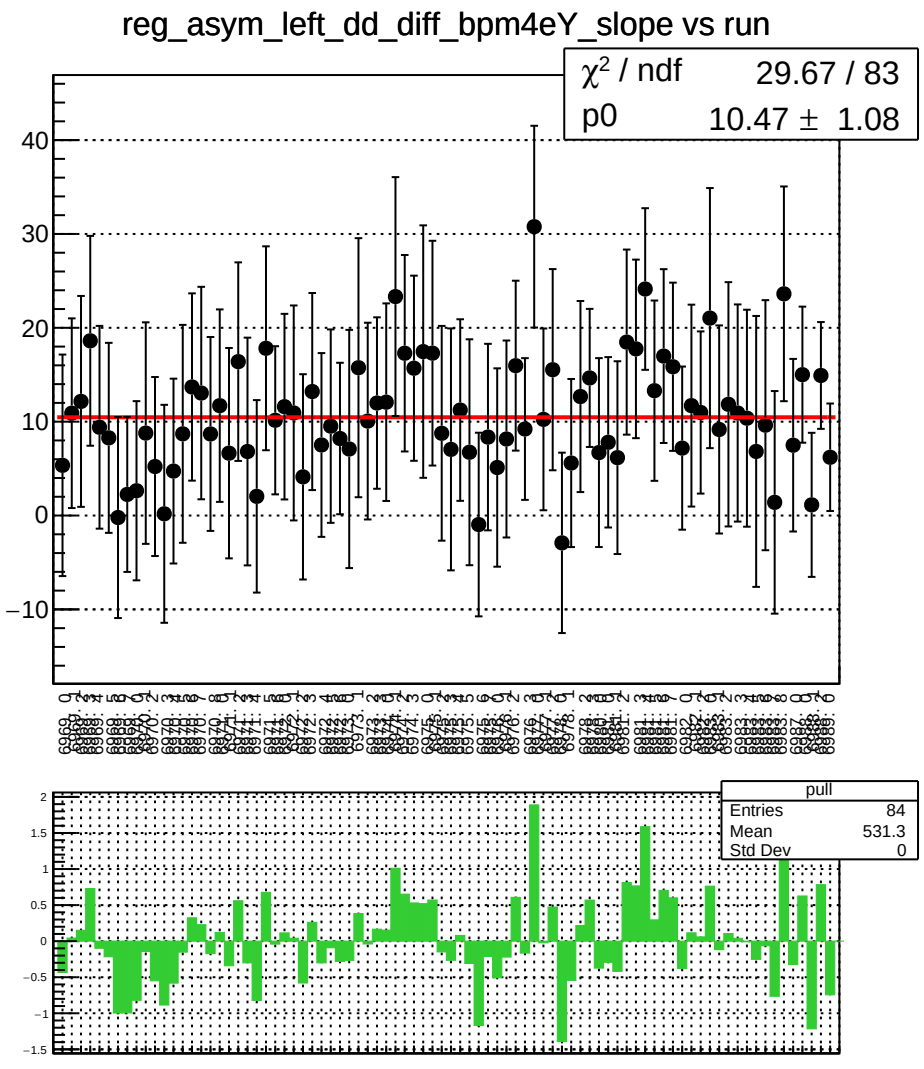

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 34.18 / 83
p0 −42.5 ± 1.355
pull
Entries 84
Mean −1865
Std Dev 0
pull1D
Entries 84
Mean −0.003184
Std Dev 0.6379

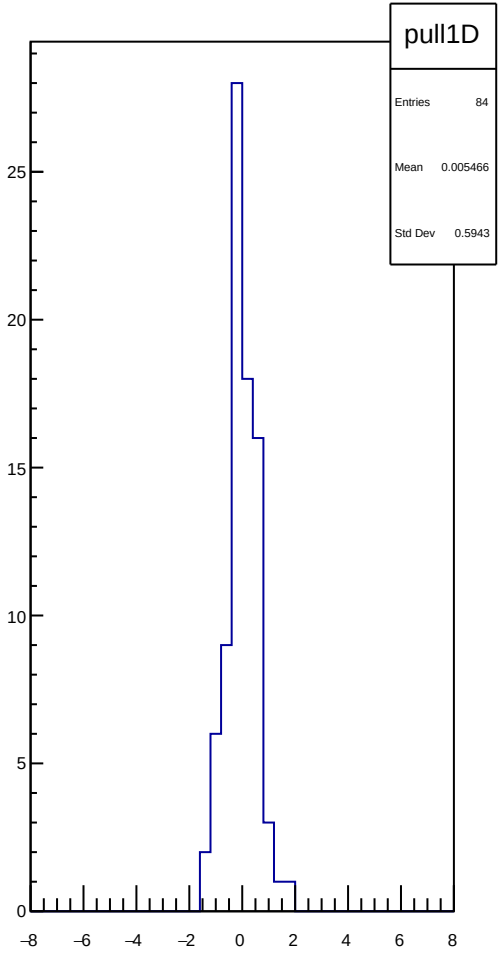

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.15 / 83
p0 0.3435 ± 0.9439
pull
Entries 84
Mean 599.4
Std Dev 0

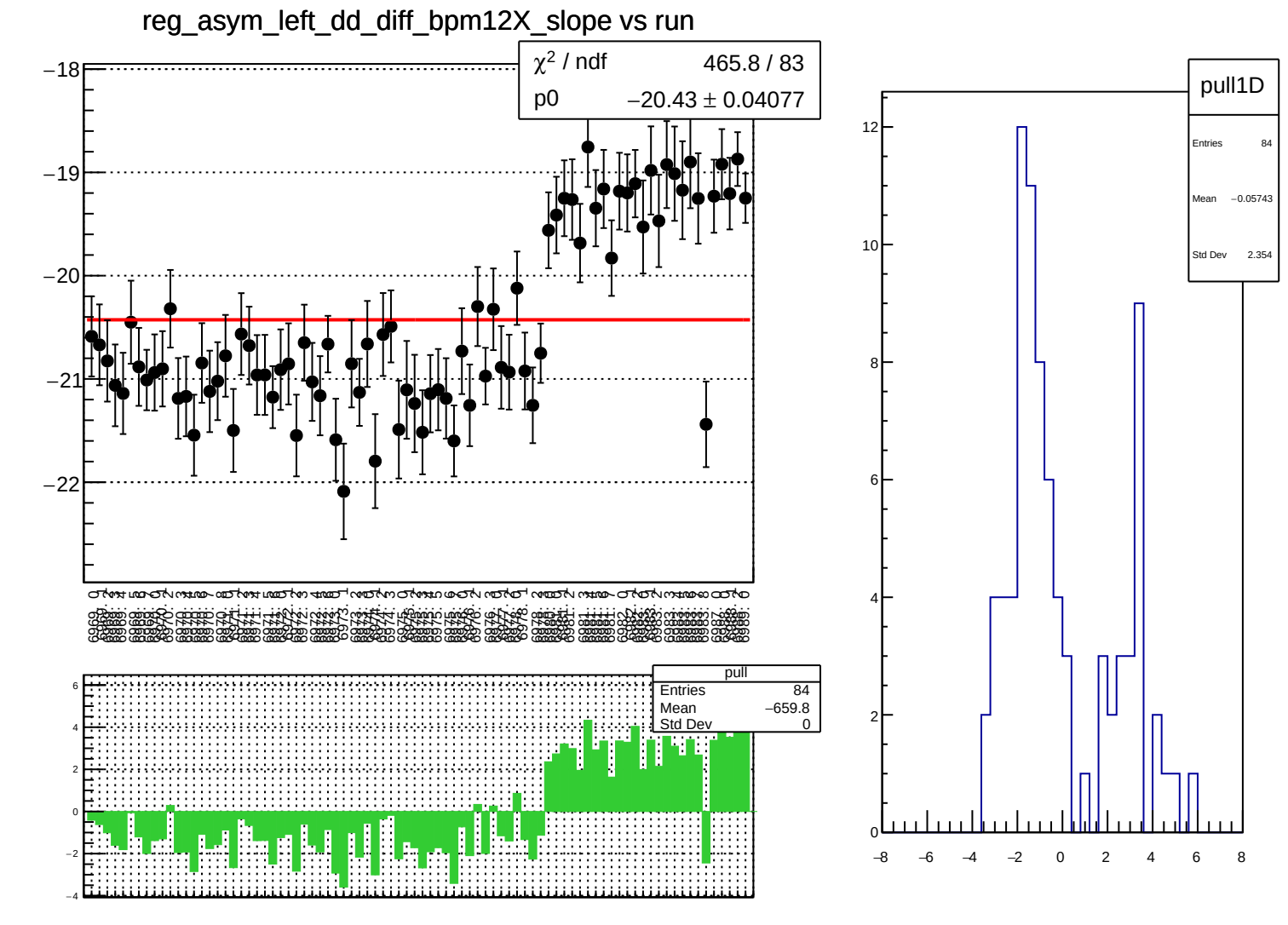

pull1D
Entries 84
Mean −0.003581
Std Dev 0.5685

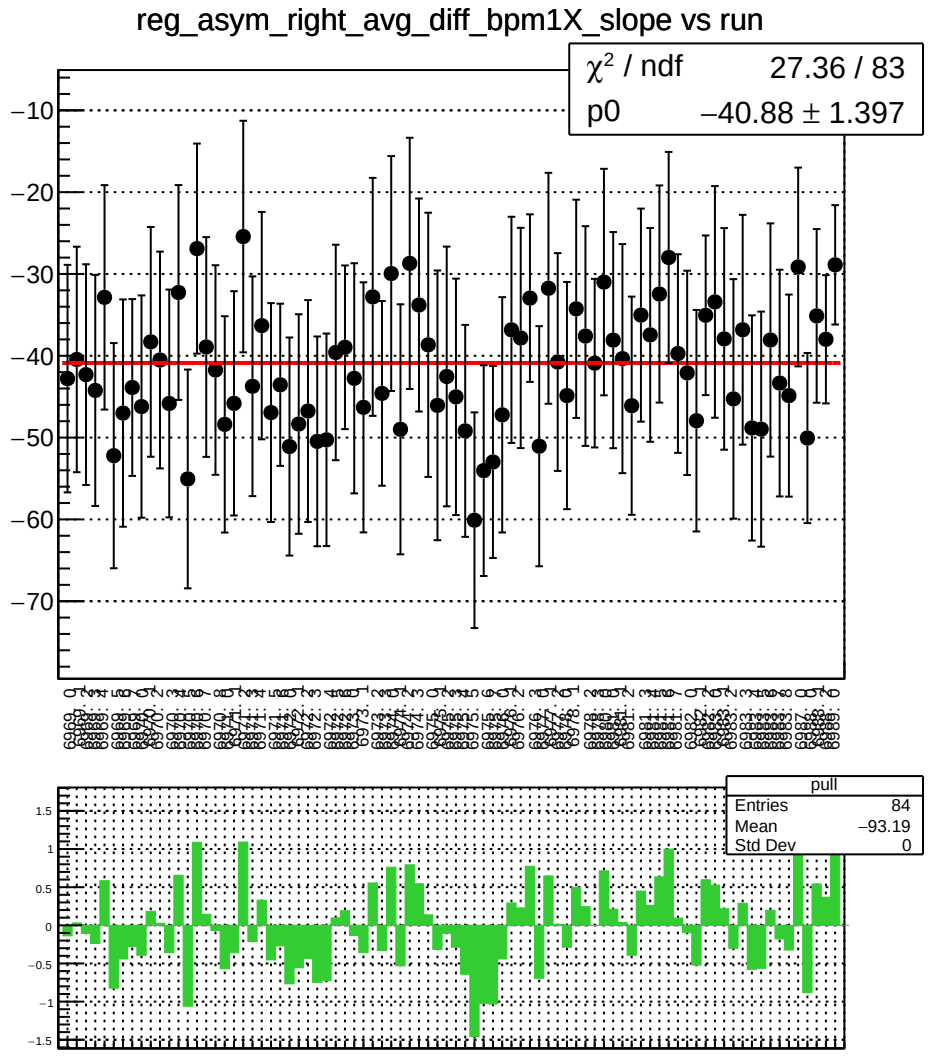

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.4 / 83
p0 8.808 ± 1.243
pull
Entries 84
Mean −1068
Std Dev 0

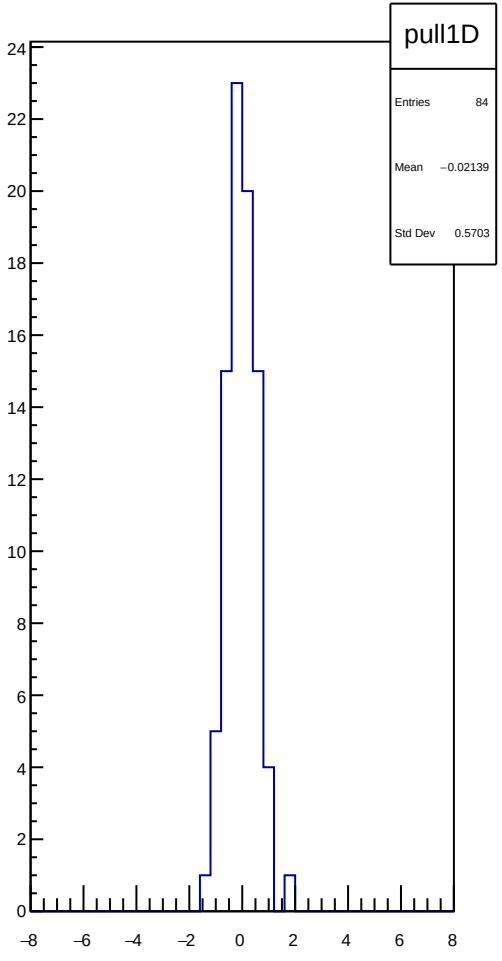

pull1D
Entries 84
Mean 0.005851
Std Dev 0.6491

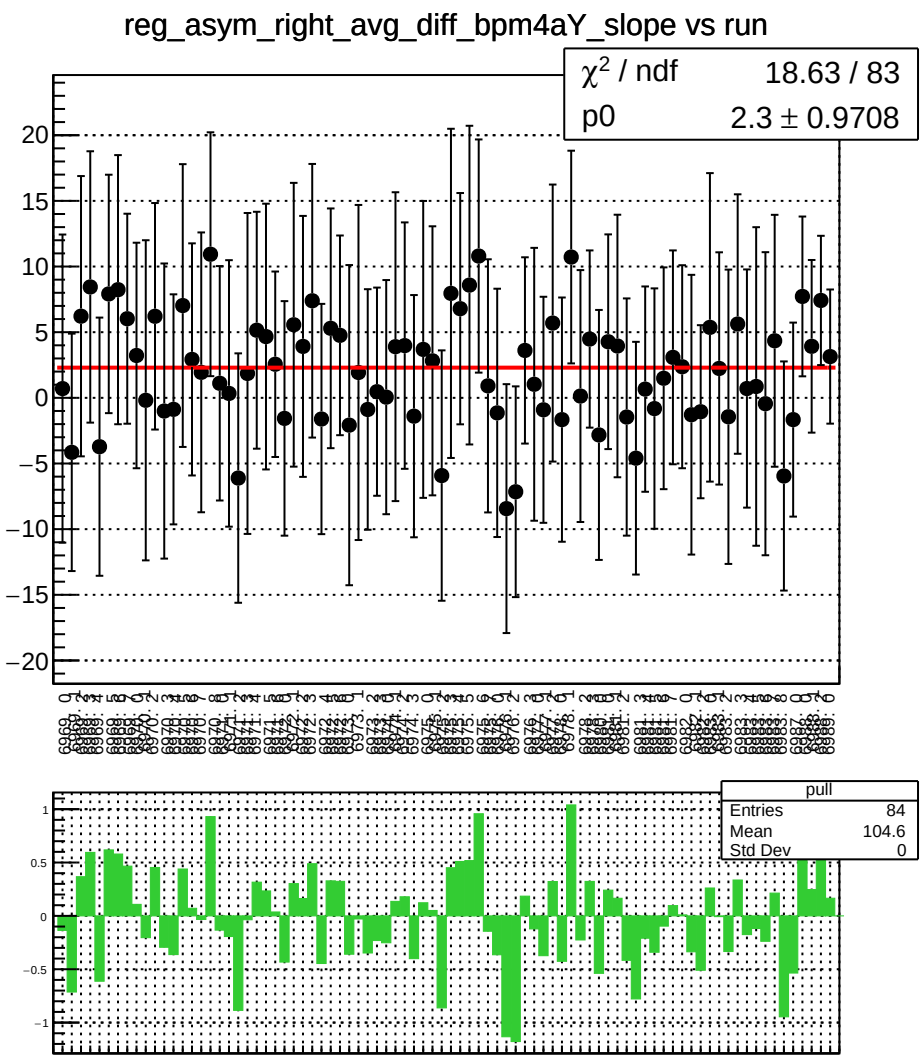

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.67 / 83
p0 10.47 ± 1.08
pull
Entries 84
Mean 531.3
Std Dev 0

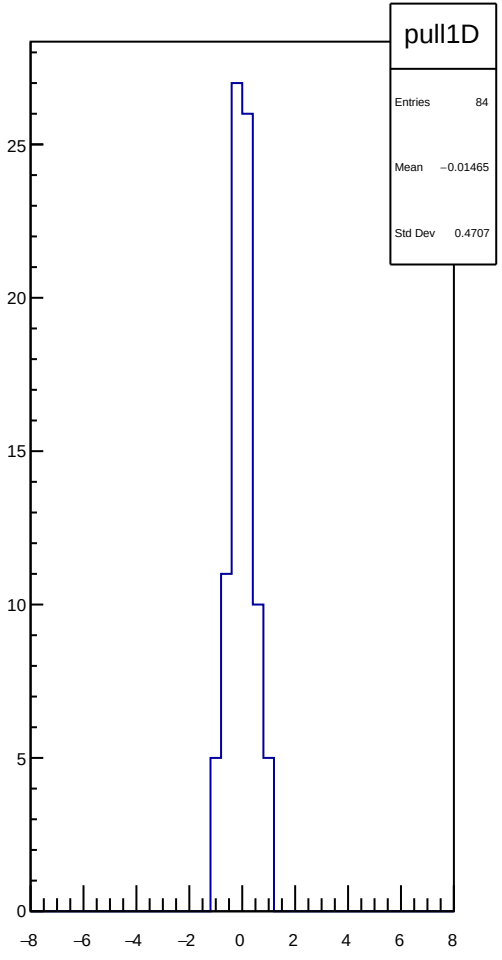

pull1D
Entries 84
Mean 0.005466
Std Dev 0.5943

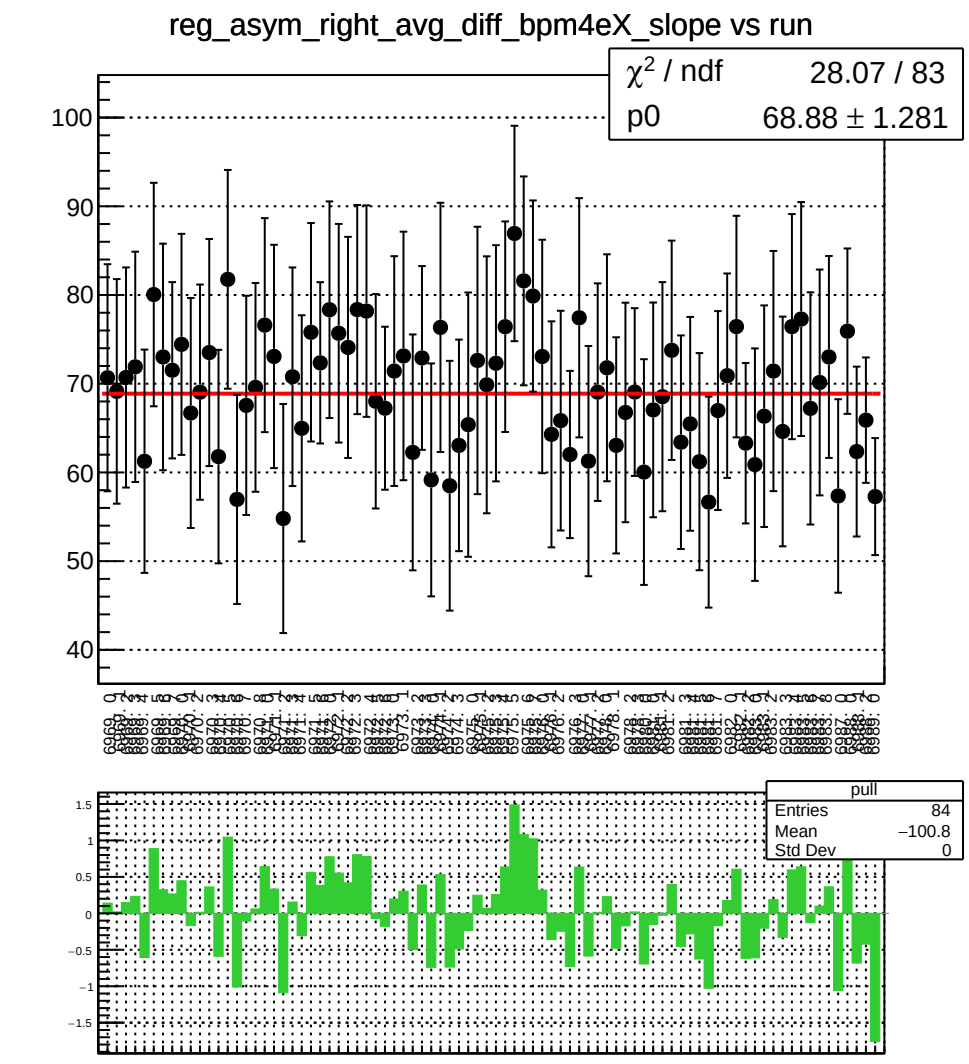

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 465.8 / 83
p0 −20.43 ± 0.04077
pull
Entries 84
Mean −659.8
Std Dev 0
pull1D
Entries 84
Mean −0.05743
Std Dev 2.354

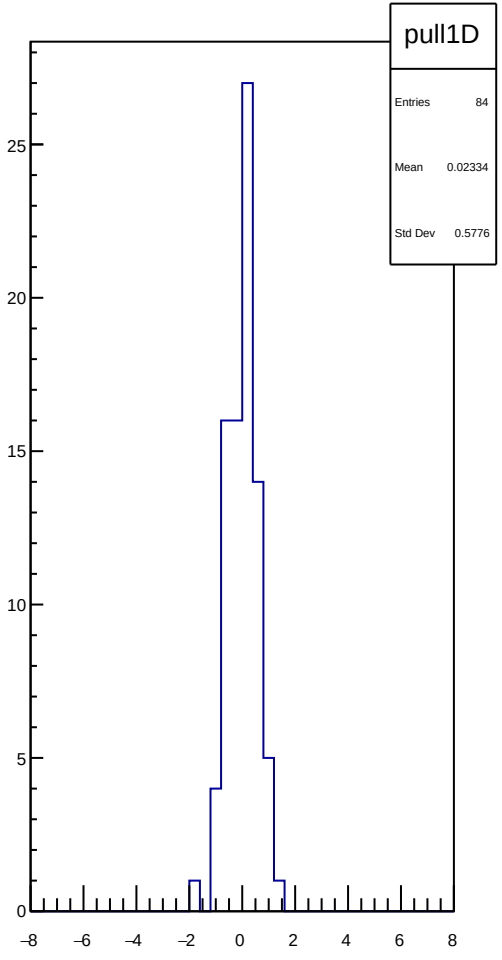

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 27.36 / 83
p0 −40.88 ± 1.397
pull
Entries 84
Mean −93.19
Std Dev 0

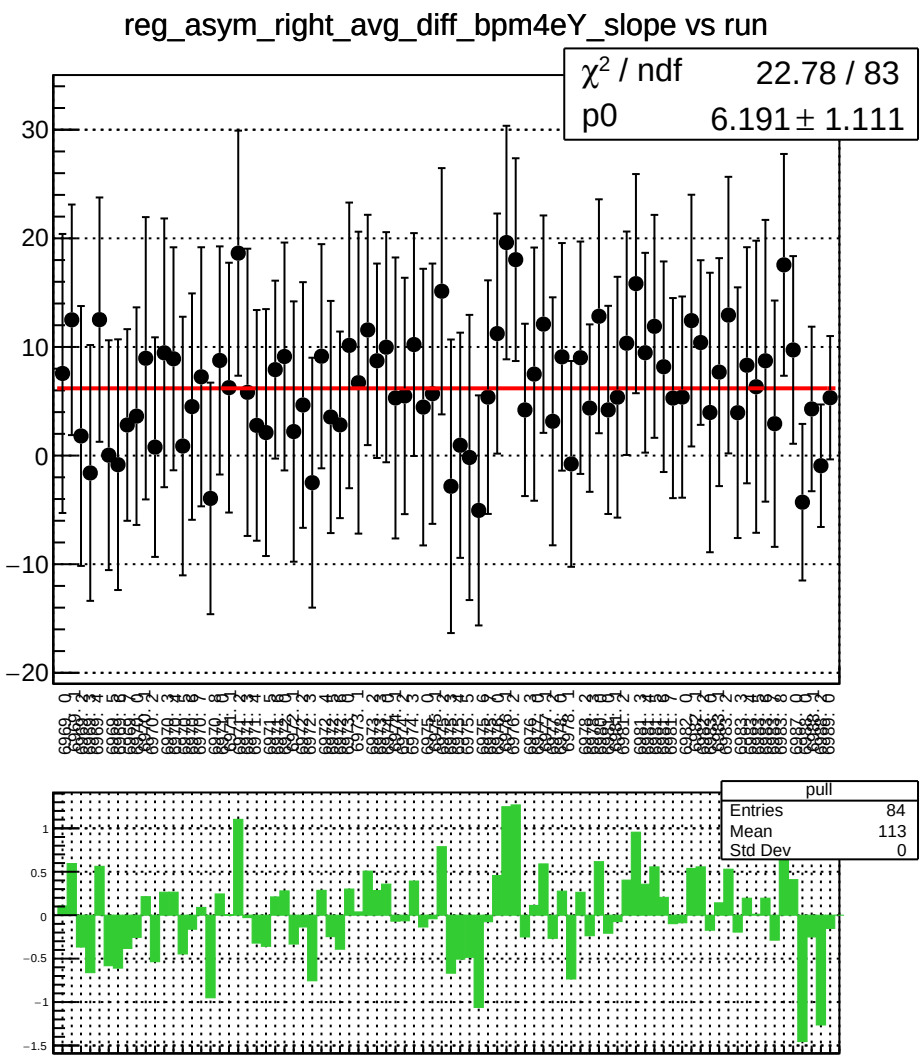

pull1D
Entries 84
Mean −0.02139
Std Dev 0.5703

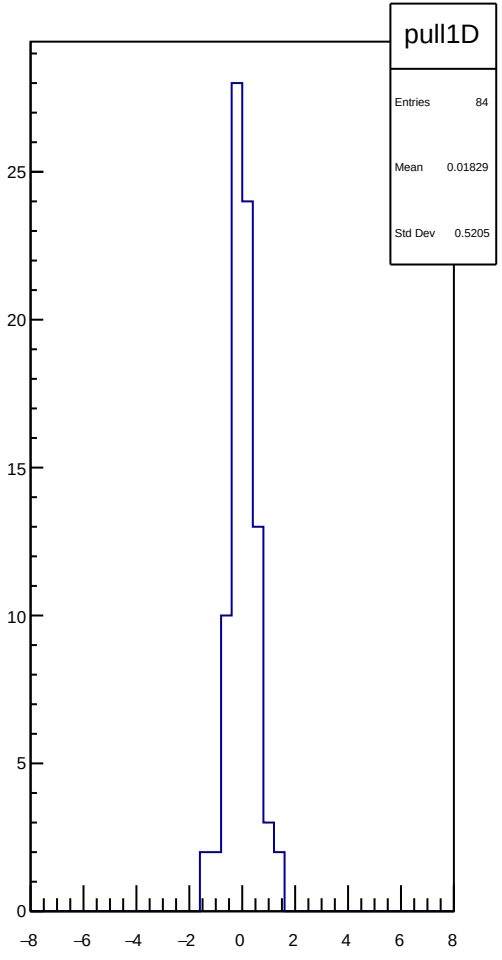

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.63 / 83
p0 2.3 ± 0.9708
pull
Entries 84
Mean 104.6
Std Dev 0

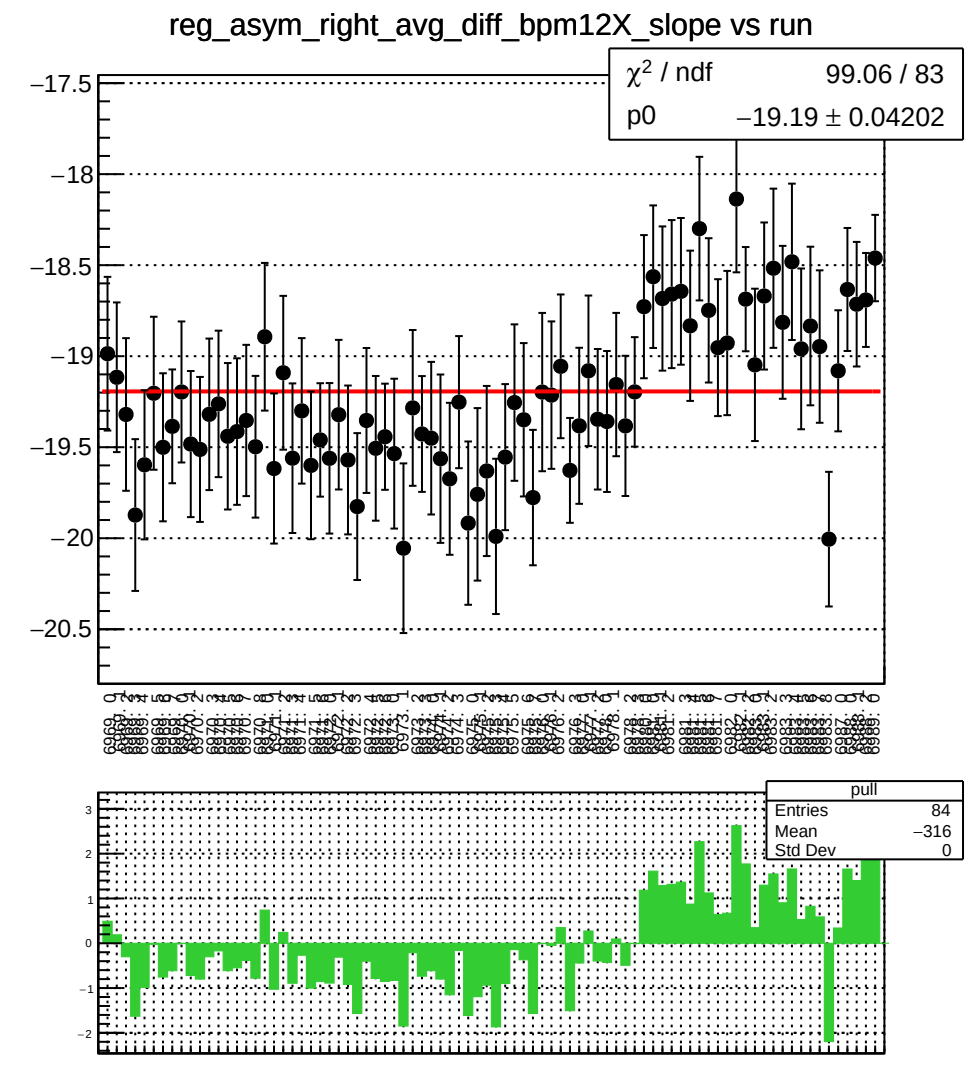

pull1D
Entries 84
Mean −0.01465
Std Dev 0.4707

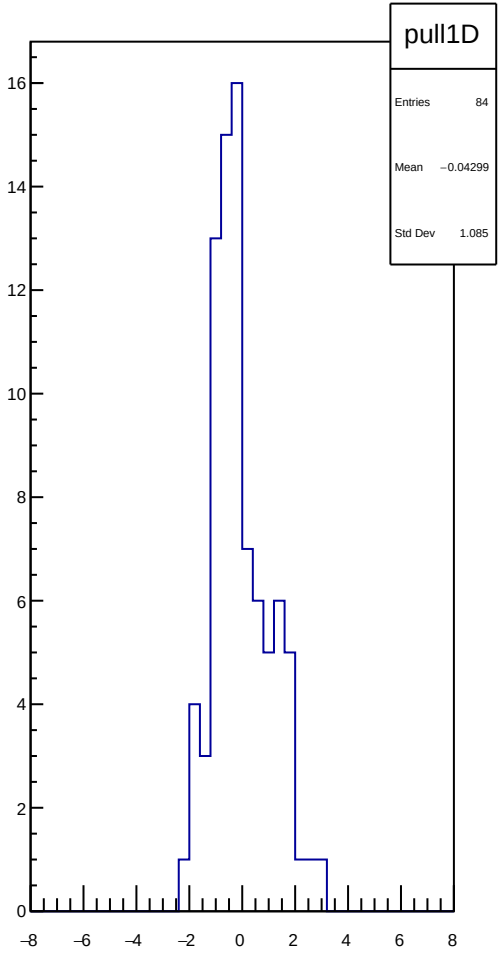

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.07 / 83
p0 68.88 ± 1.281
pull
Entries 84
Mean −100.8
Std Dev 0

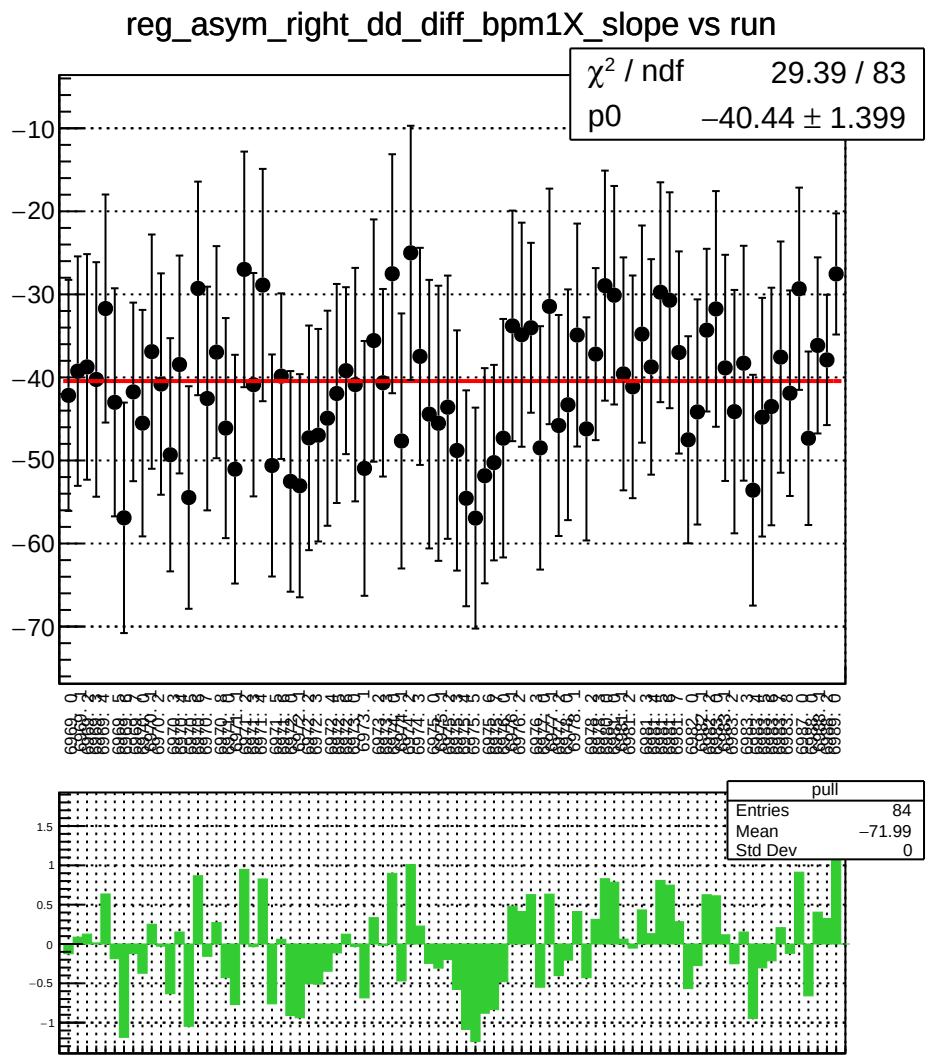

pull1D
Entries 84
Mean 0.02334
Std Dev 0.5776

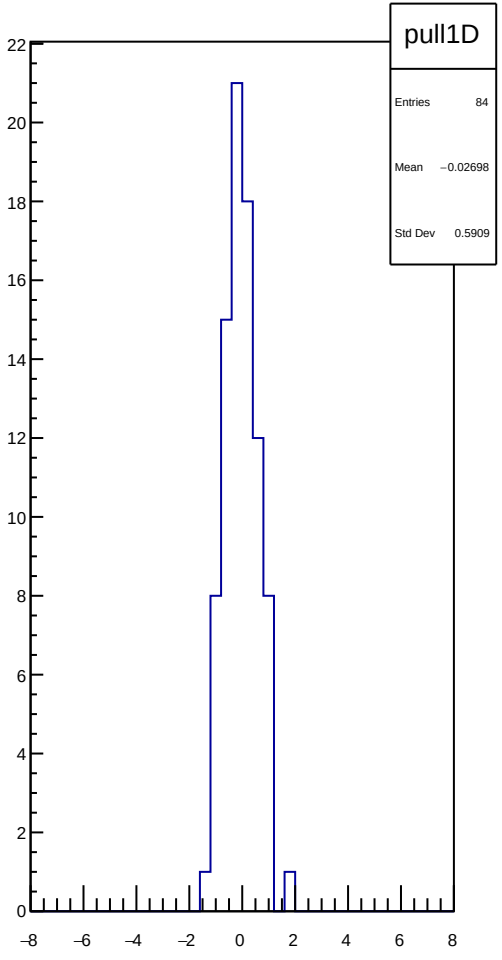

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.78 / 83
p0 6.191 ± 1.111
pull
Entries 84
Mean 113
Std Dev 0

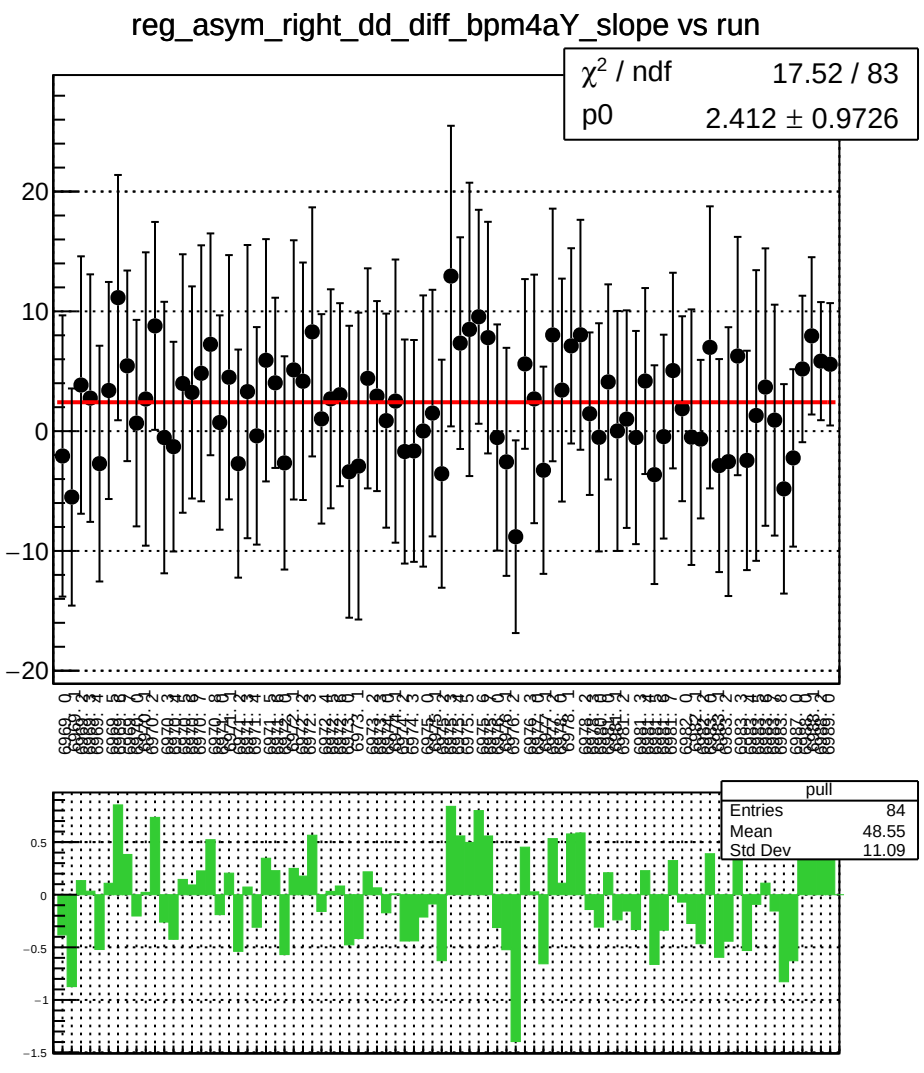

pull1D
Entries 84
Mean 0.01829
Std Dev 0.5205

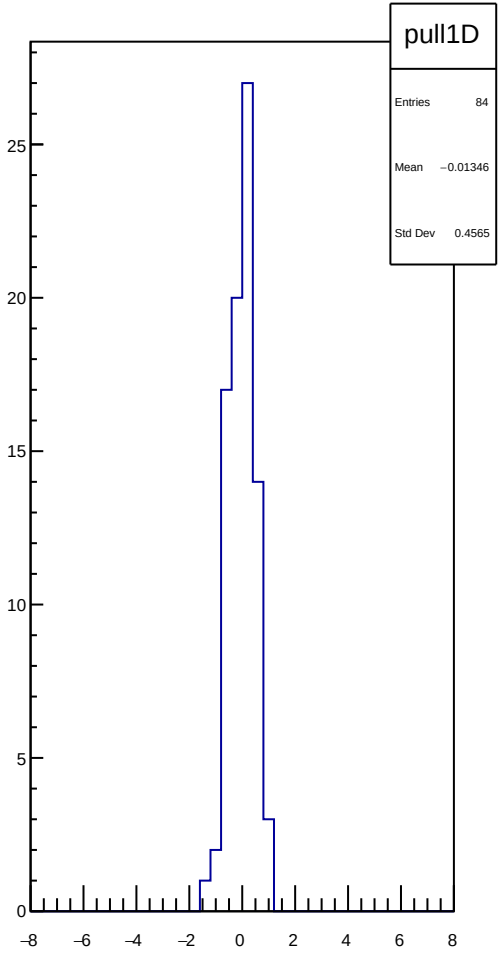

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 99.06 / 83
p0 −19.19 ± 0.04202
pull
Entries 84
Mean −316
Std Dev 0

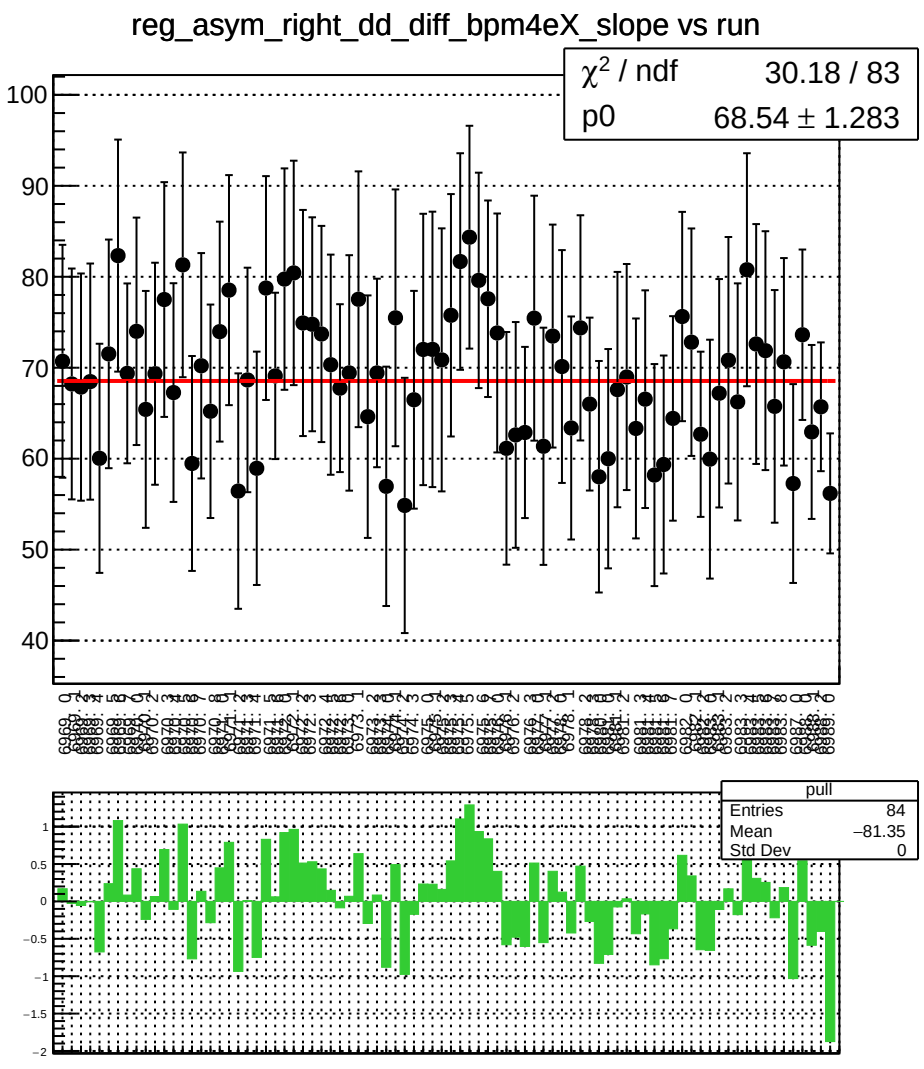

pull1D
Entries 84
Mean −0.04299
Std Dev 1.085

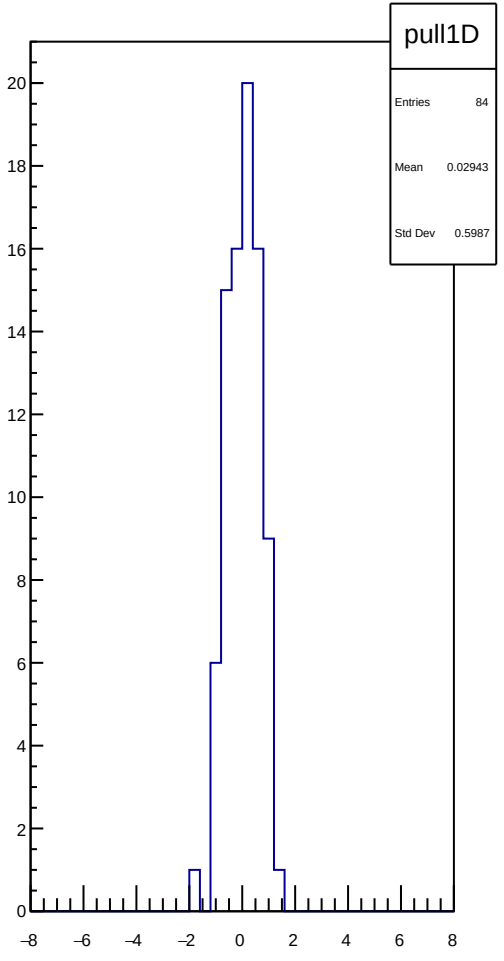

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 29.39 / 83
p0 −40.44 ± 1.399
pull
Entries 84
Mean −71.99
Std Dev 0

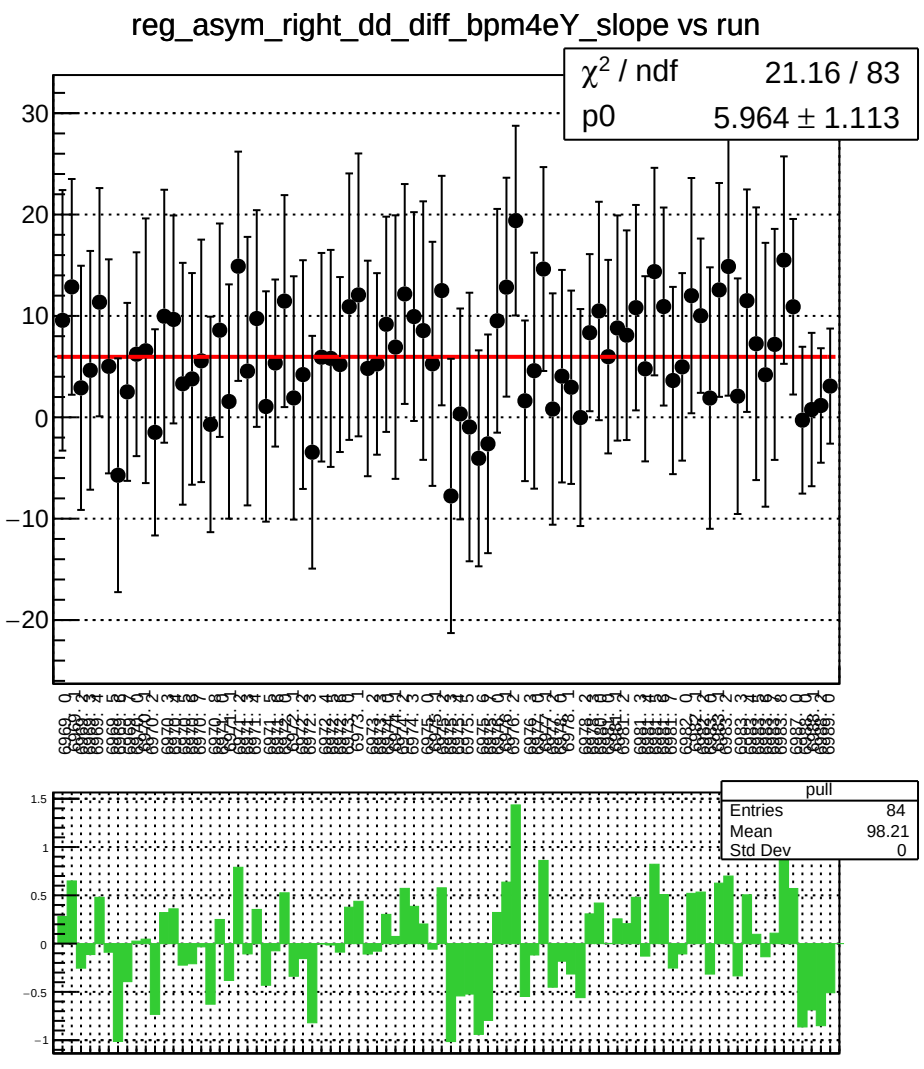

pull1D
Entries 84
Mean −0.02698
Std Dev 0.5909

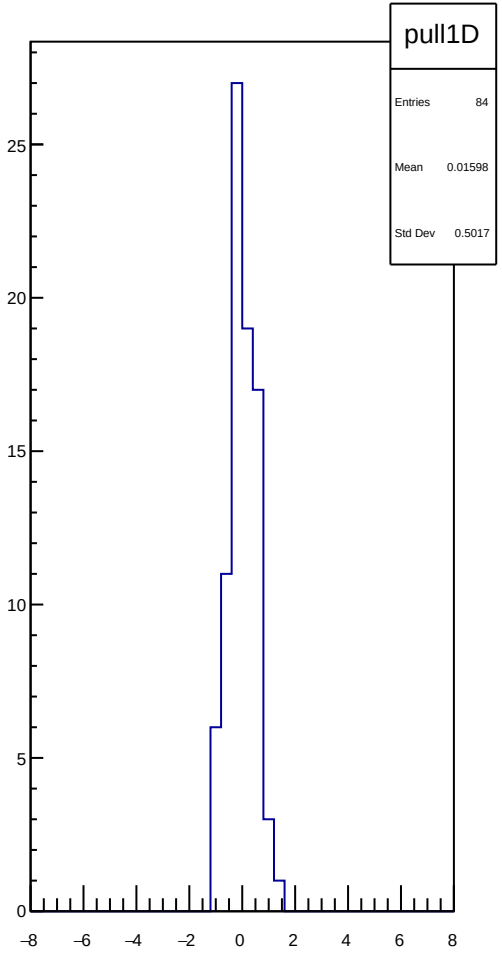

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.52 / 83
p0 2.412 ± 0.9726
pull
Entries 84
Mean 48.55
Std Dev 11.09

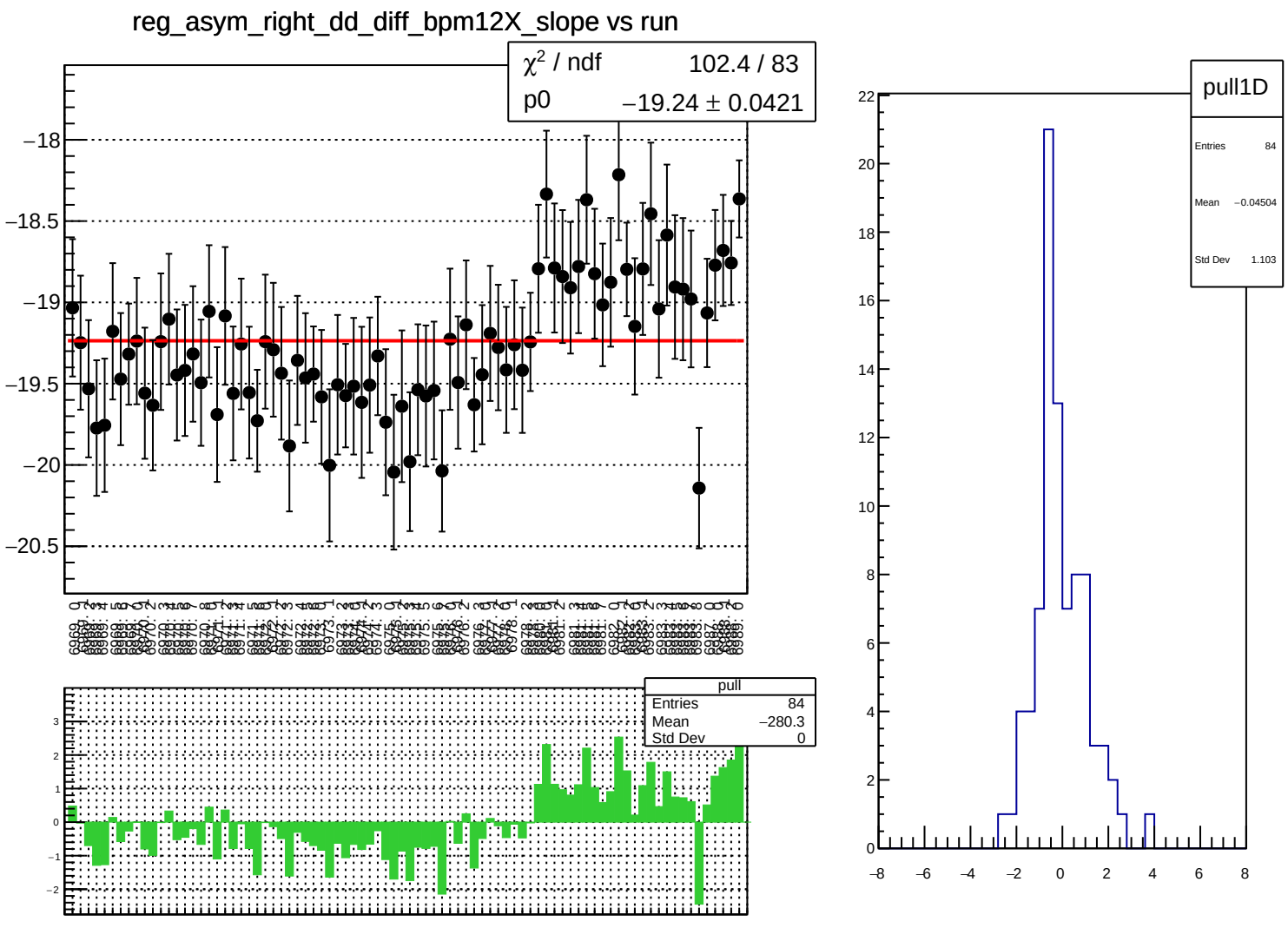

pull1D
Entries 84
Mean −0.01346
Std Dev 0.4565

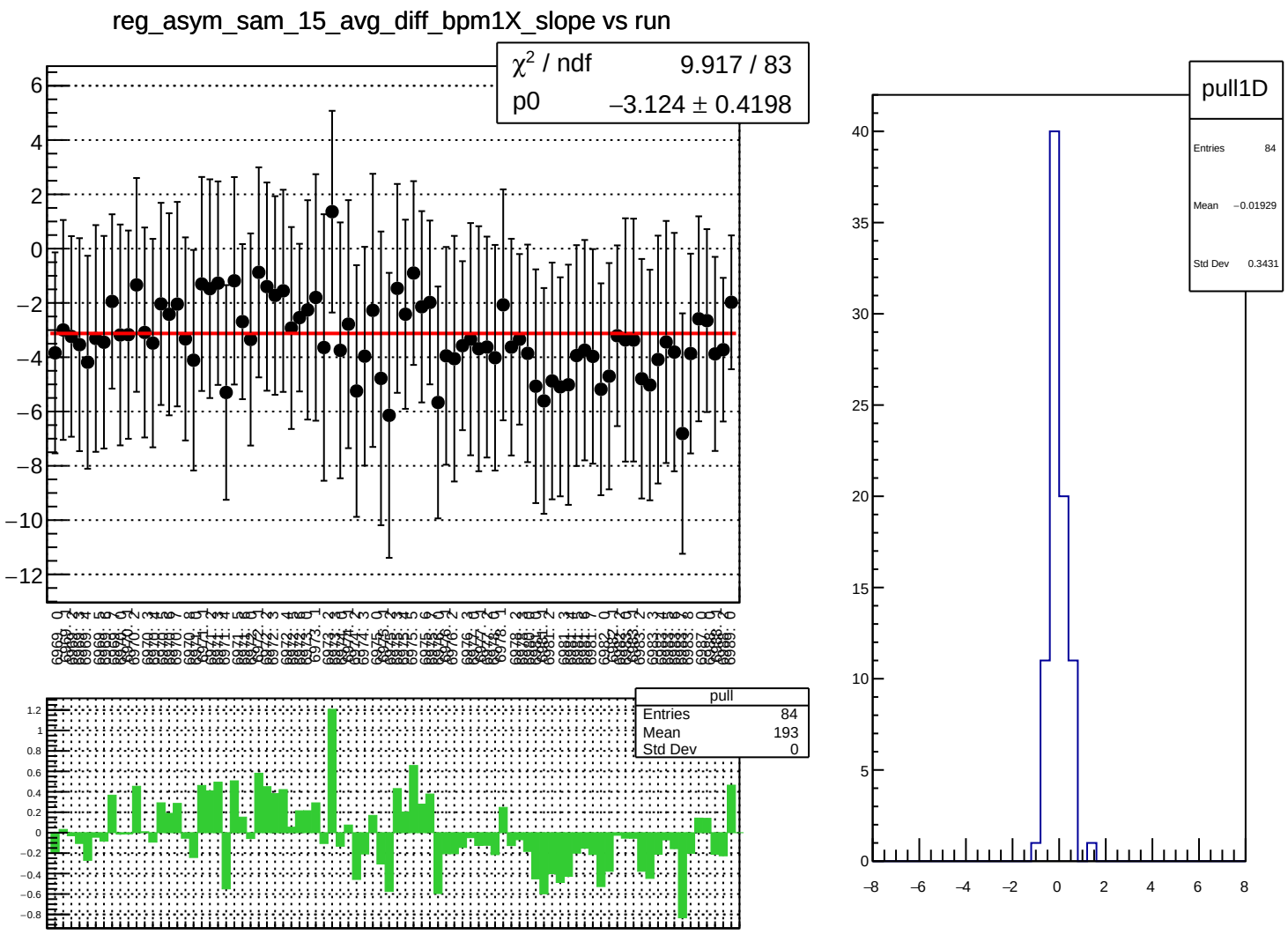

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.18 / 83
p0 68.54 ± 1.283
pull
Entries 84
Mean −81.35
Std Dev 0

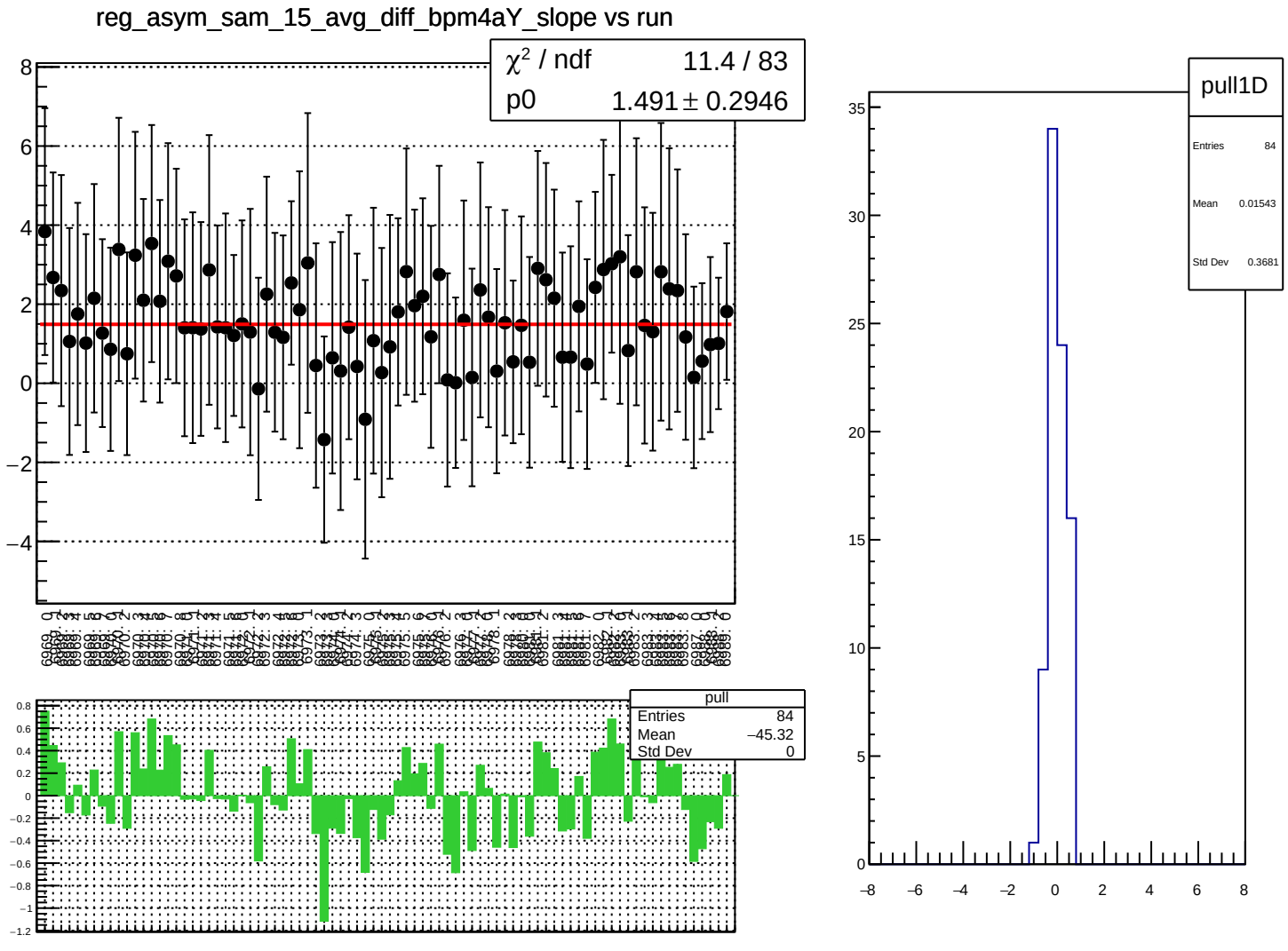

pull1D
Entries 84
Mean 0.02943
Std Dev 0.5987

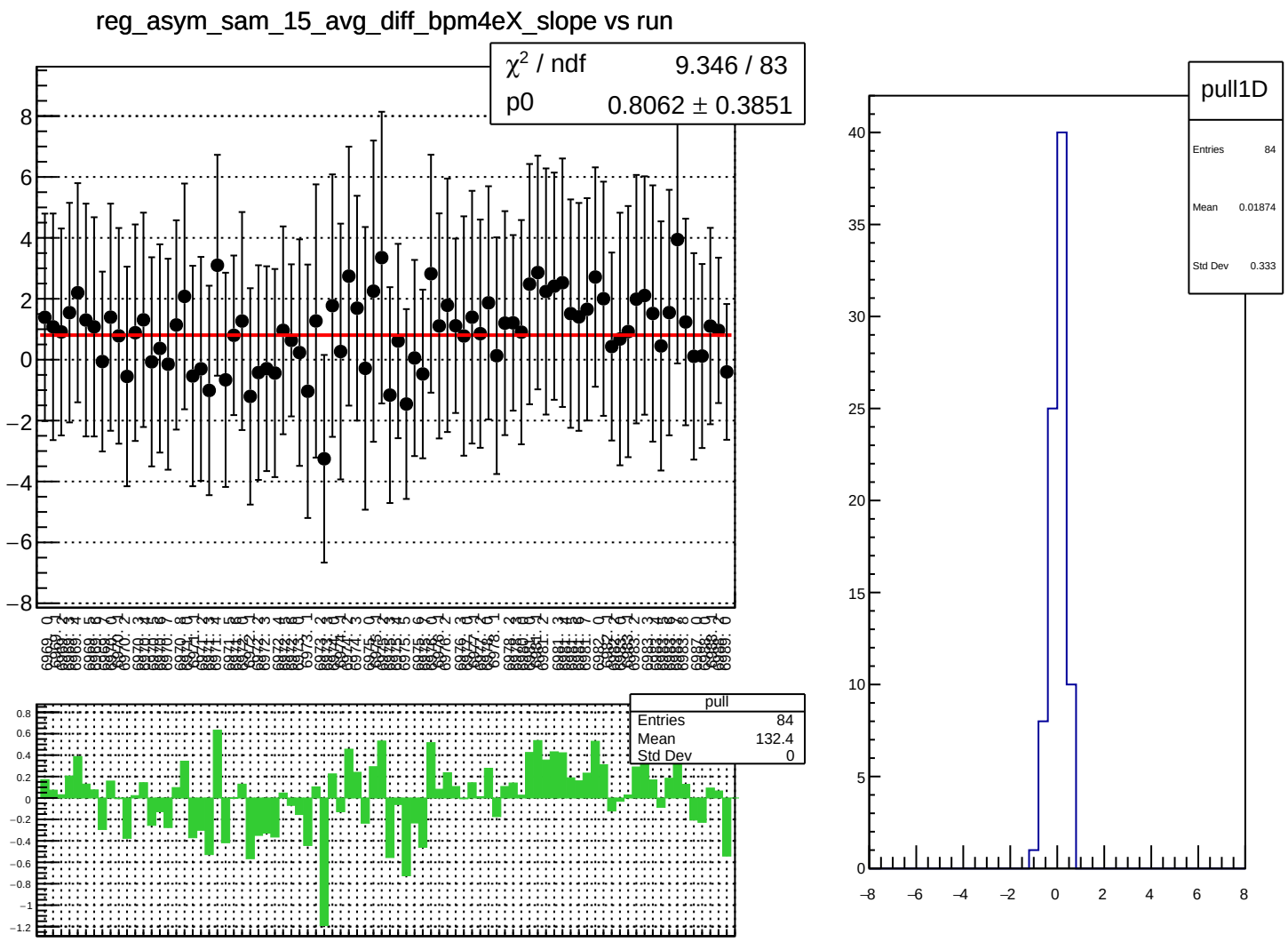

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.16 / 83
p0 5.964 ± 1.113
pull
Entries 84
Mean 98.21
Std Dev 0

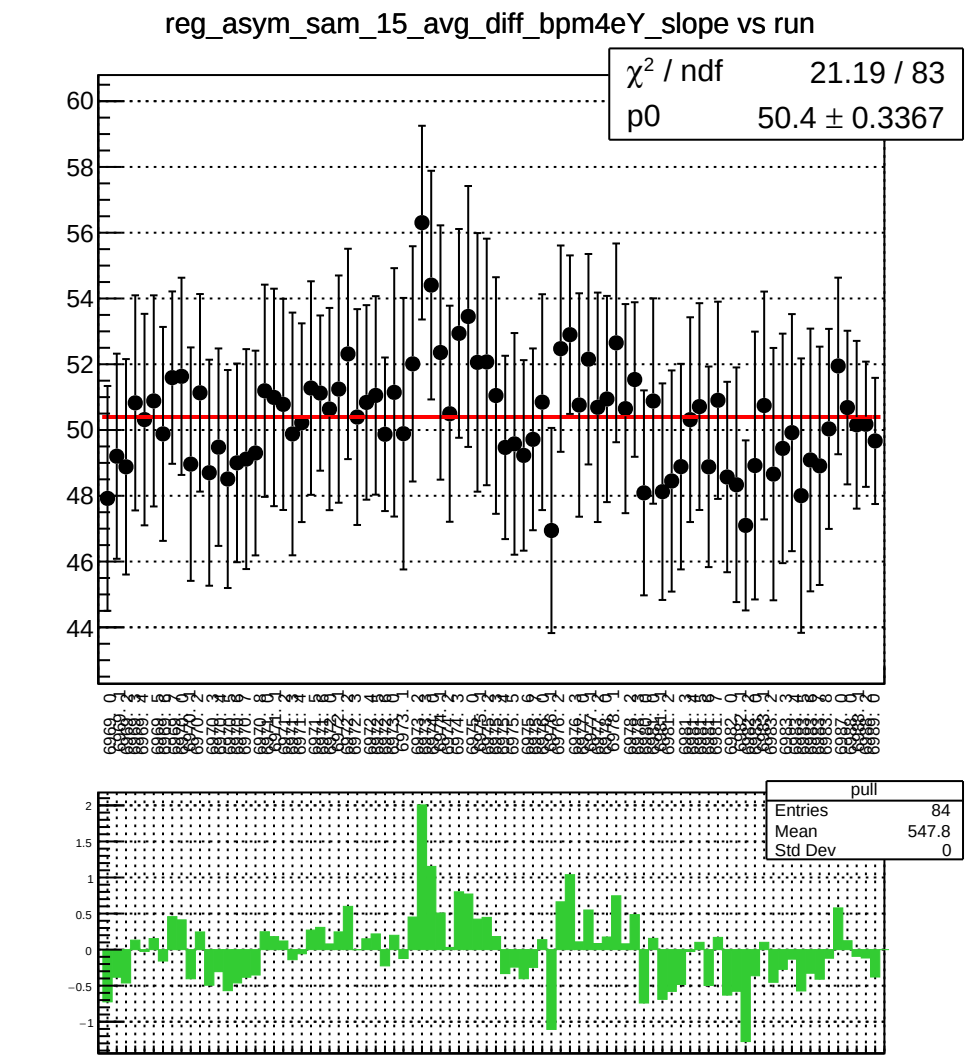

pull1D
Entries 84
Mean 0.01598
Std Dev 0.5017

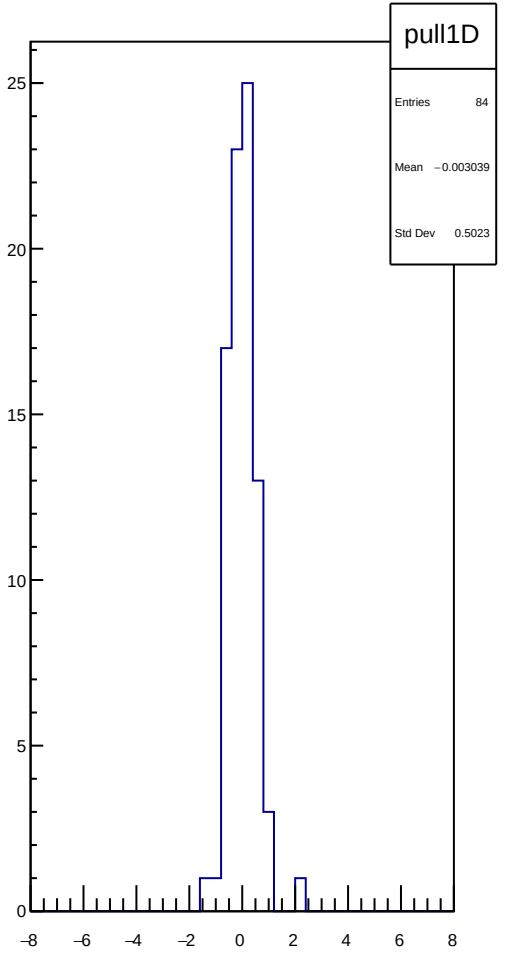

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 102.4 / 83
p0 −19.24 ± 0.0421
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 84
Mean −280.3
Std Dev 0
pull1D
Entries 84
Mean −0.04504
Std Dev 1.103

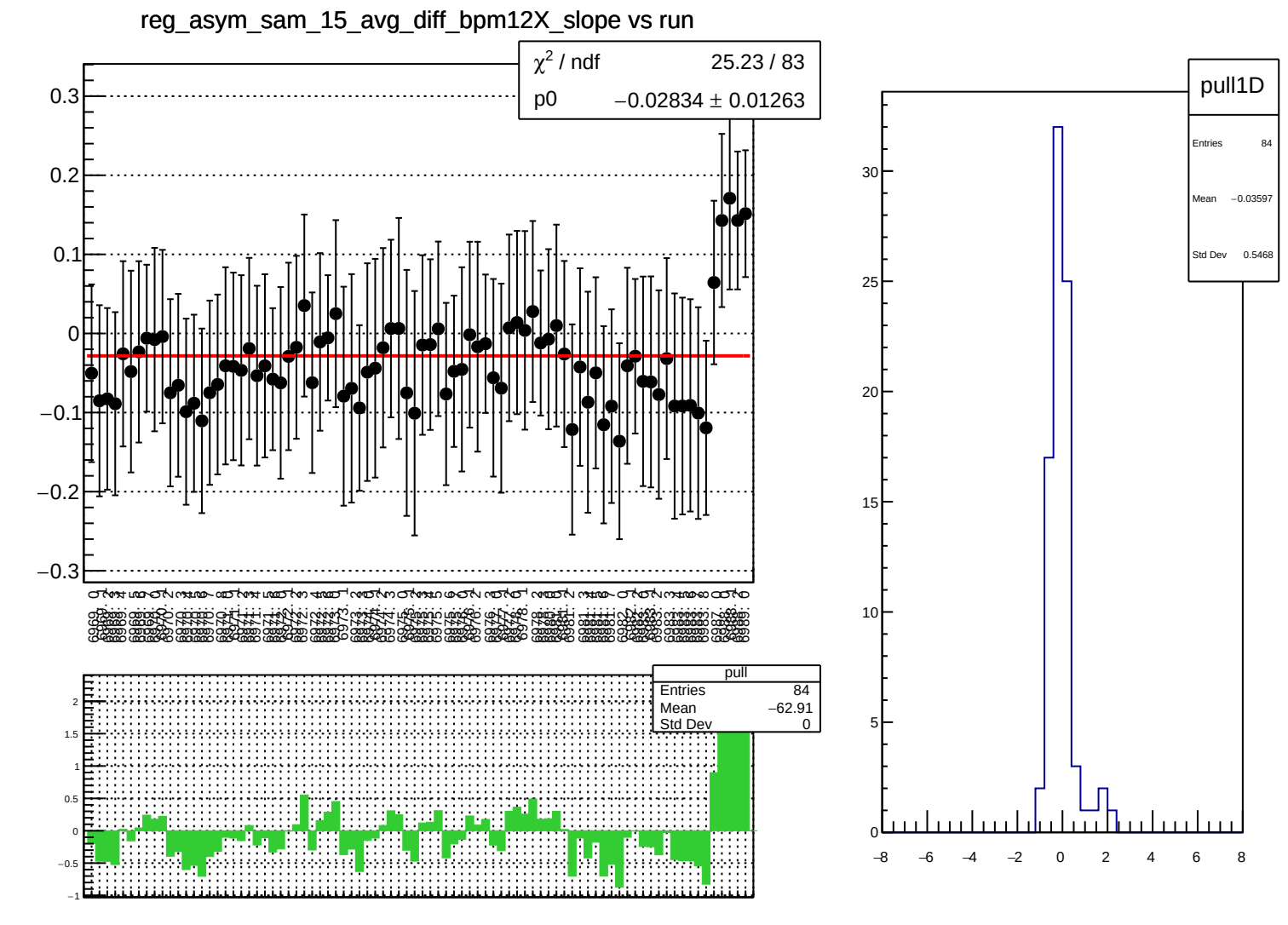

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 9.917 / 83
p0 −3.124 ± 0.4198
pull
Entries 84
Mean 193
Std Dev 0
pull1D
Entries 84
Mean −0.01929
Std Dev 0.3431

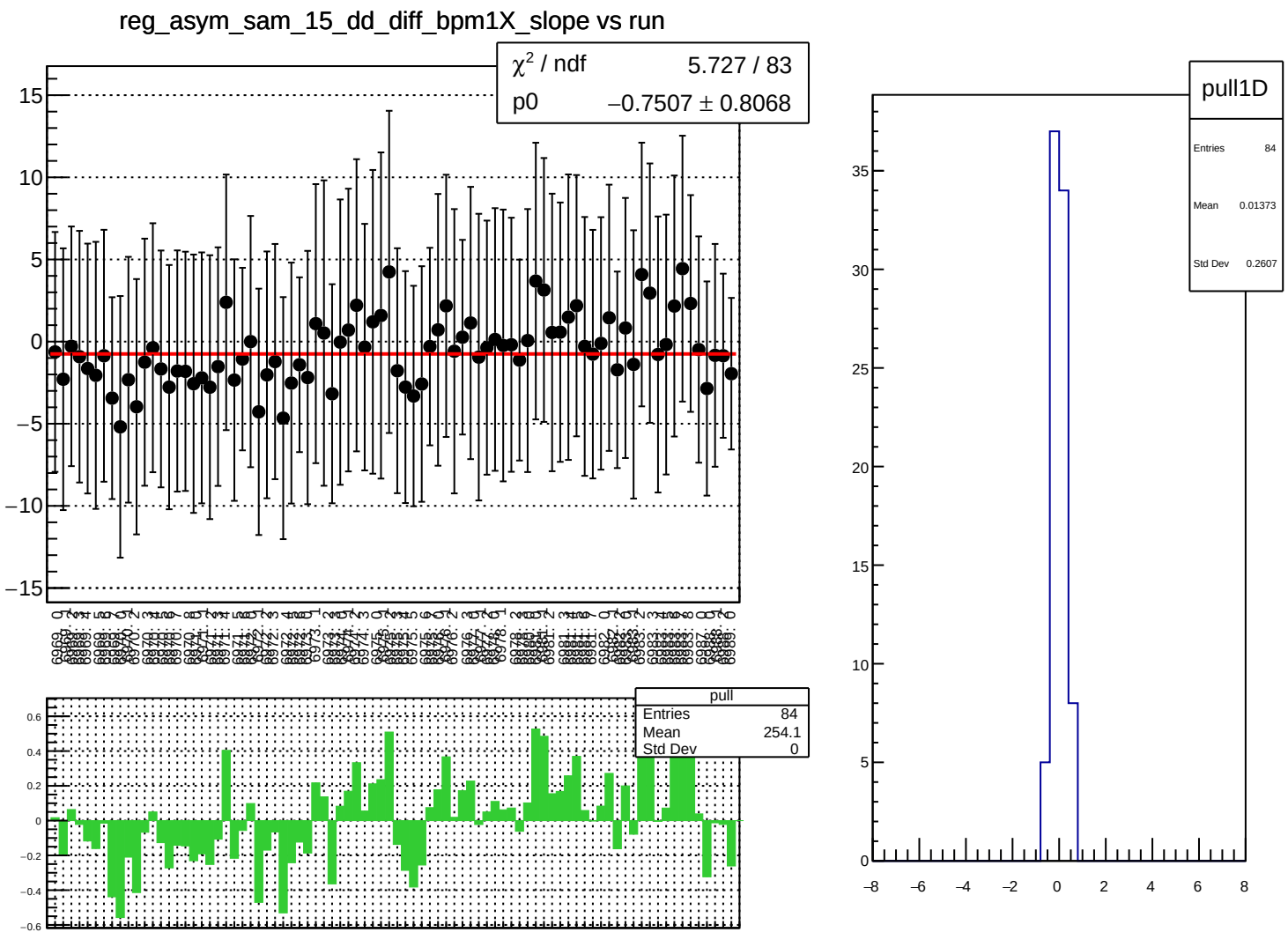

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.4 / 83
p0 1.491 ± 0.2946
pull
Entries 84
Mean −45.32
Std Dev 0
pull1D
Entries 84
Mean 0.01543
Std Dev 0.3681

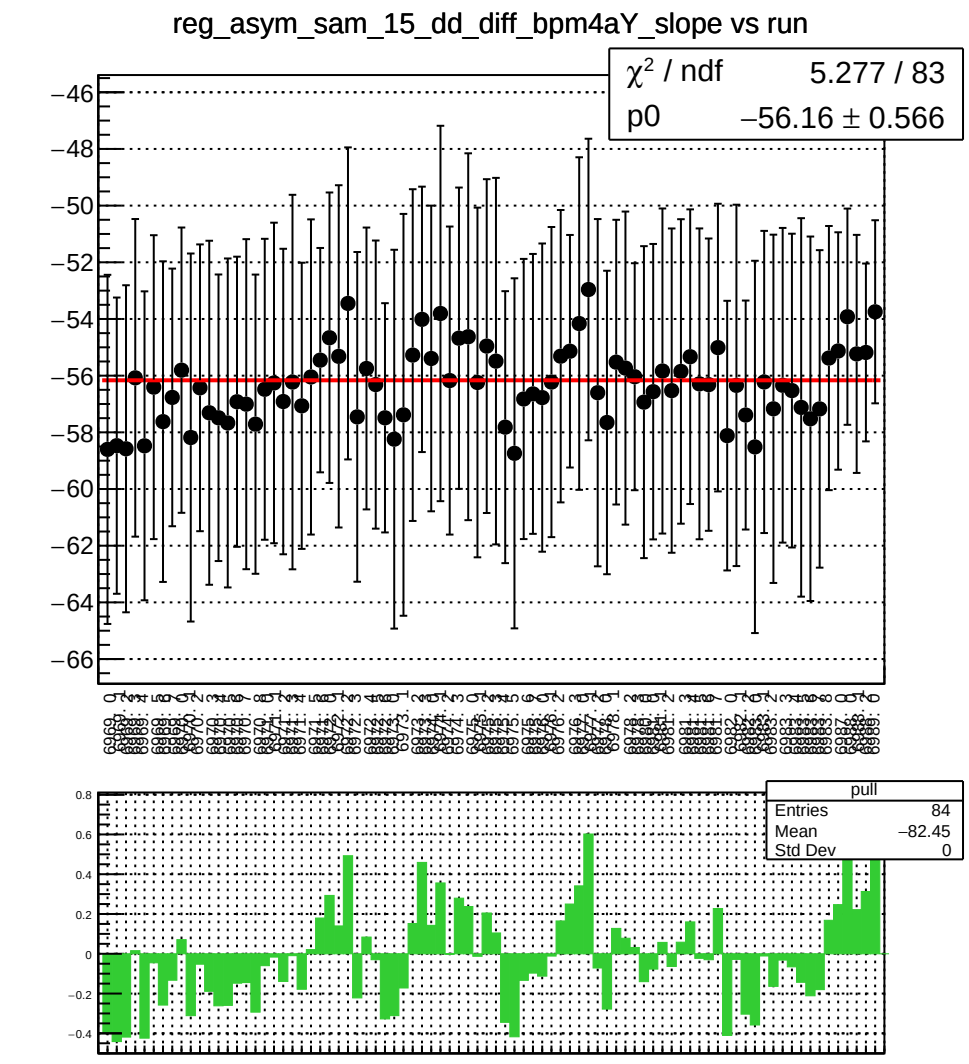

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.346 / 83
p0 0.8062 ± 0.3851
pull
Entries 84
Mean 132.4
Std Dev 0
pull1D
Entries 84
Mean 0.01874
Std Dev 0.333

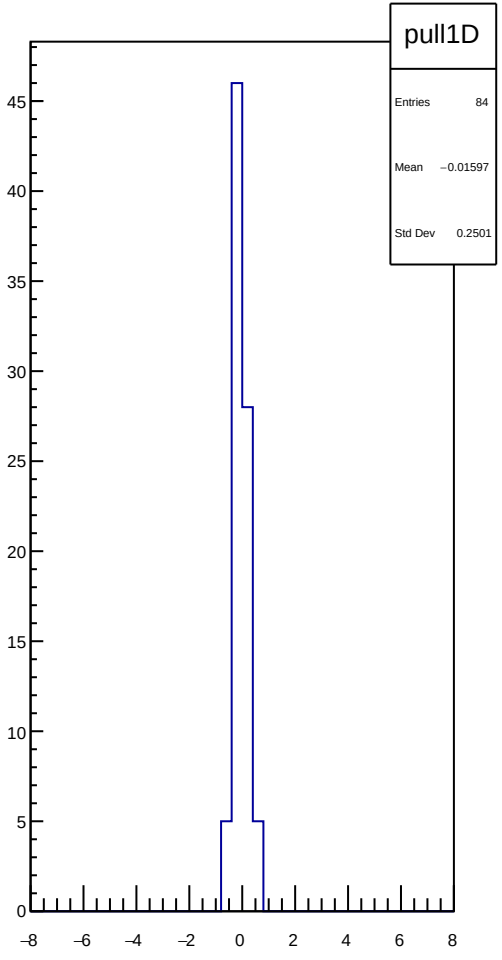

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.19 / 83
p0 50.4 ± 0.3367
pull
Entries 84
Mean 547.8
Std Dev 0

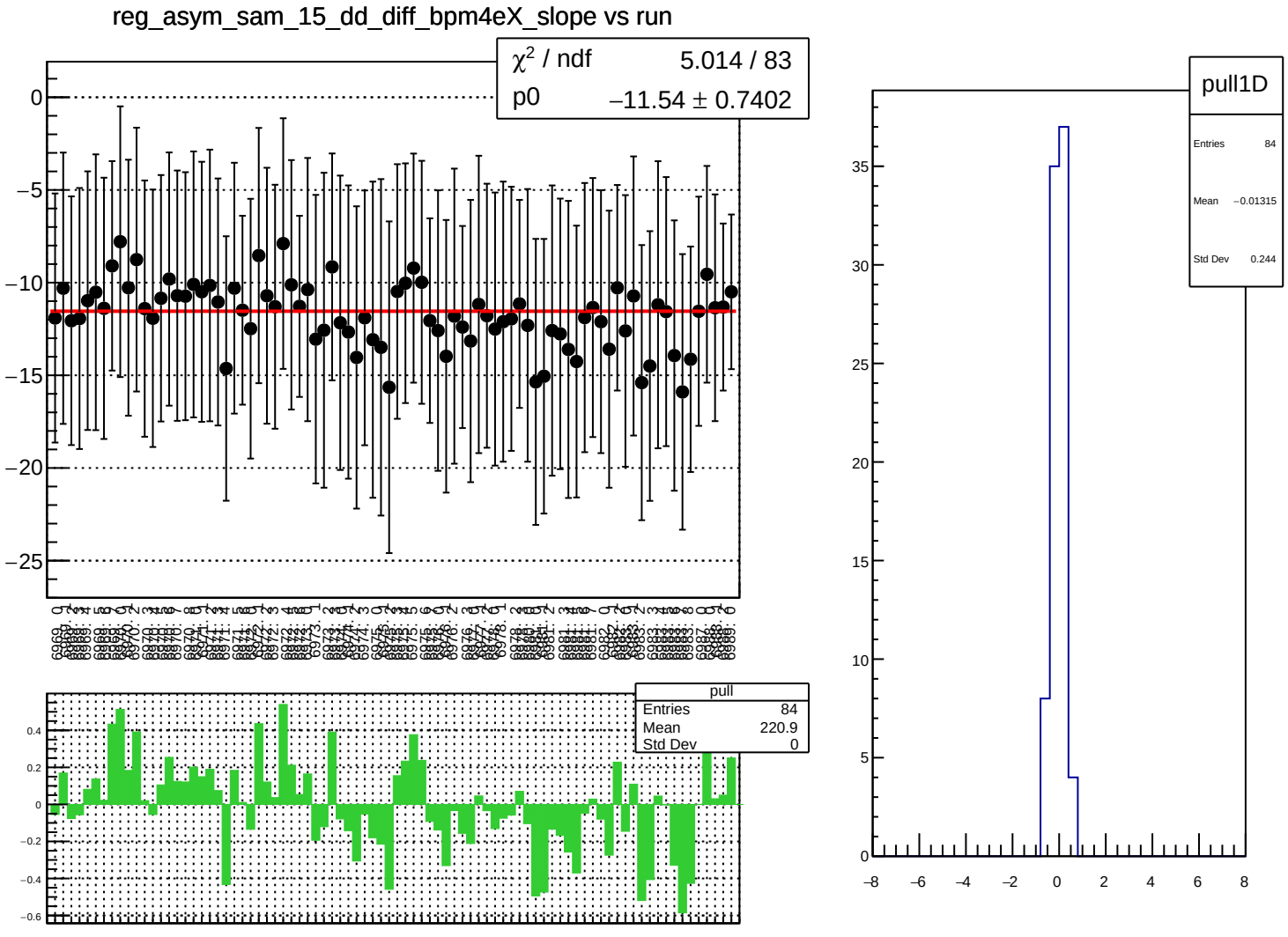

pull1D
Entries 84
Mean −0.003039
Std Dev 0.5023

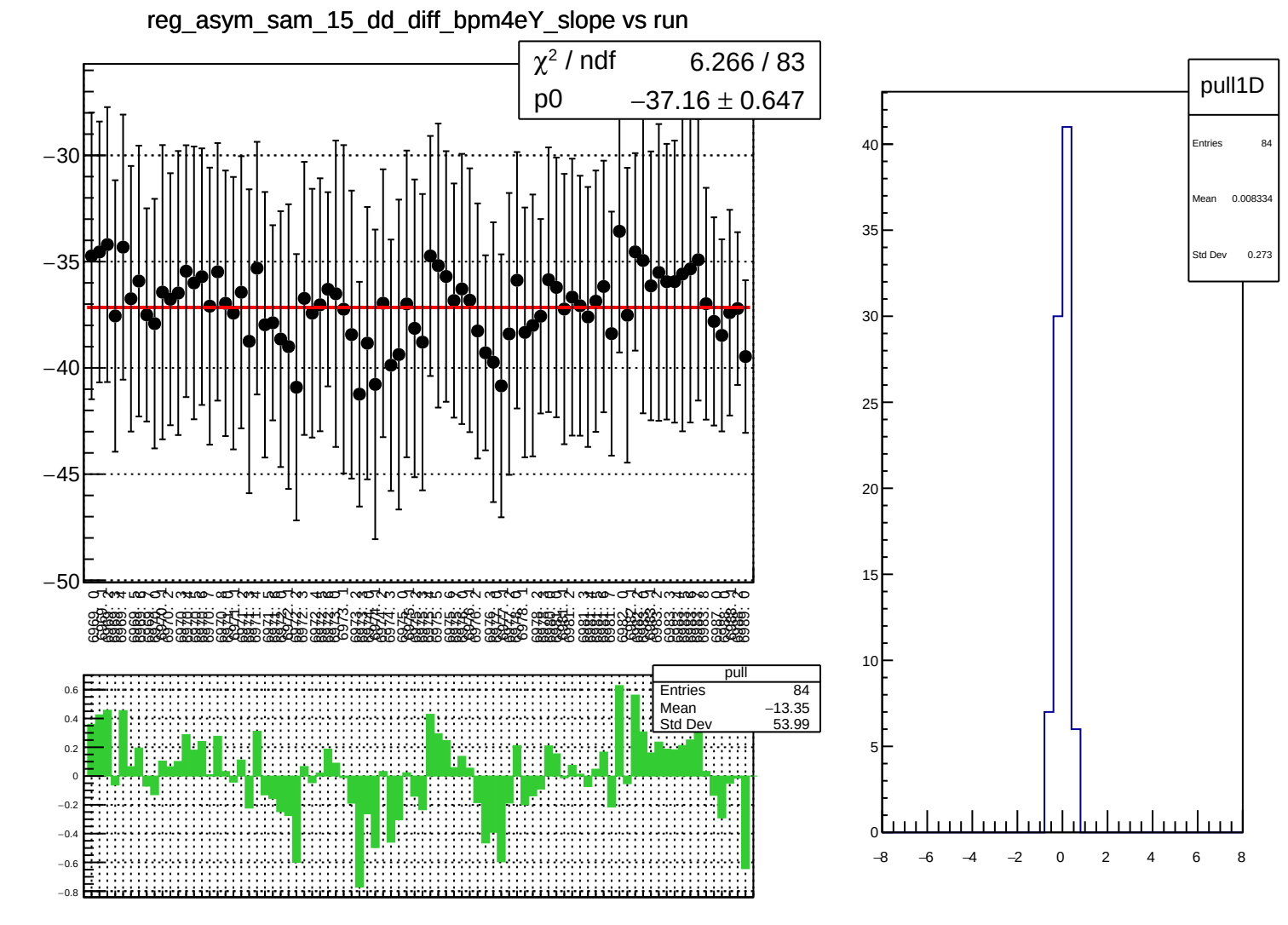

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 25.23 / 83
p0 −0.02834 ± 0.01263
pull
Entries 84
Mean −62.91
Std Dev 0
pull1D
Entries 84
Mean −0.03597
Std Dev 0.5468

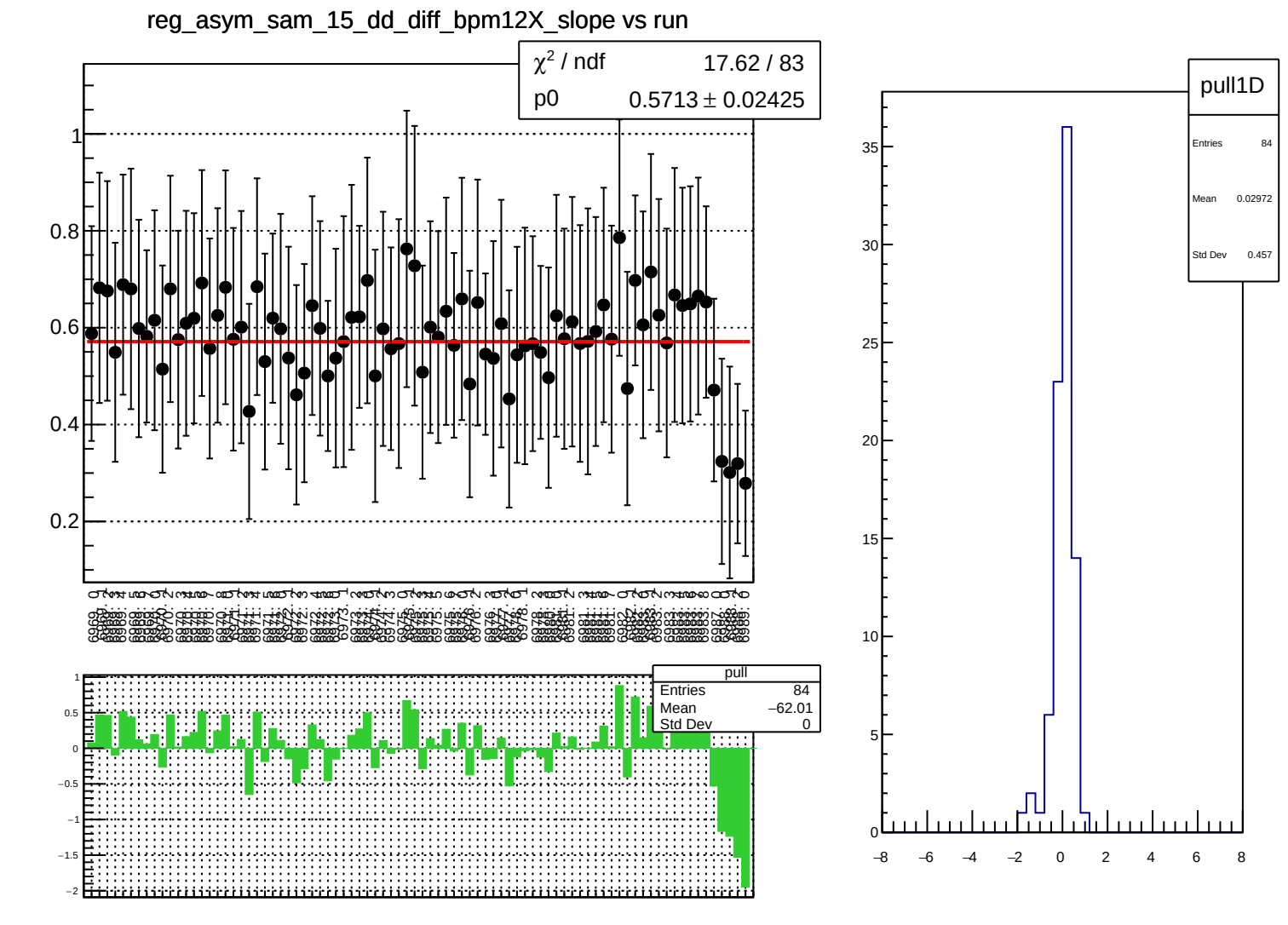

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 5.727 / 83
p0 −0.7507 ± 0.8068
pull
Entries 84
Mean 254.1
Std Dev 0
pull1D
Entries 84
Mean 0.01373
Std Dev 0.2607

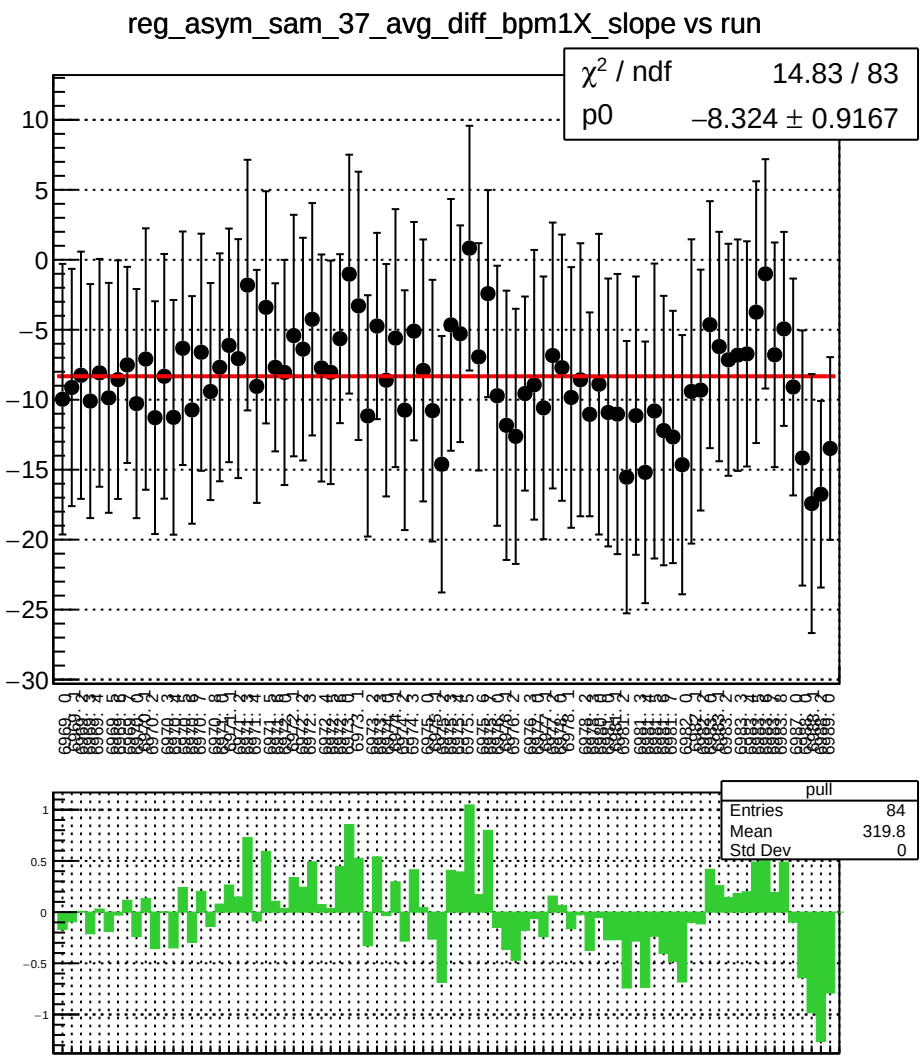

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.277 / 83
p0 −56.16 ± 0.566
pull
Entries 84
Mean −82.45
Std Dev 0

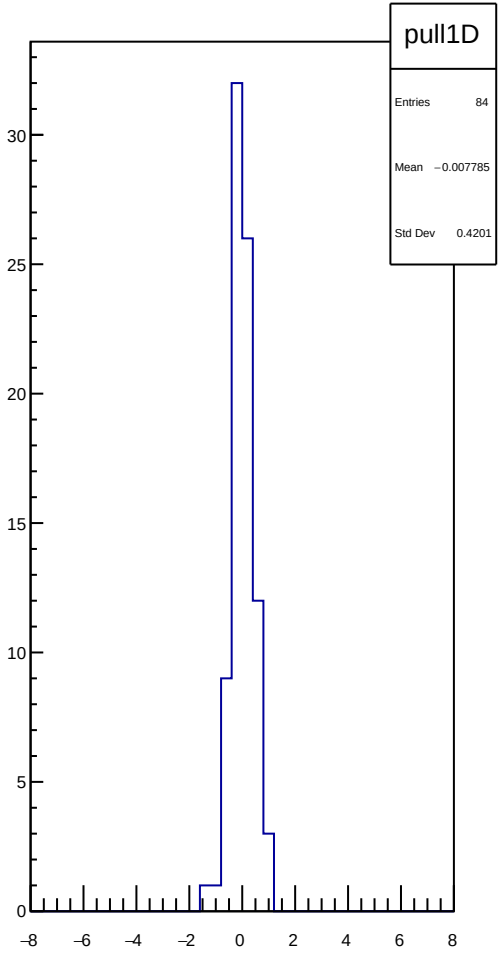

pull1D
Entries 84
Mean −0.01597
Std Dev 0.2501

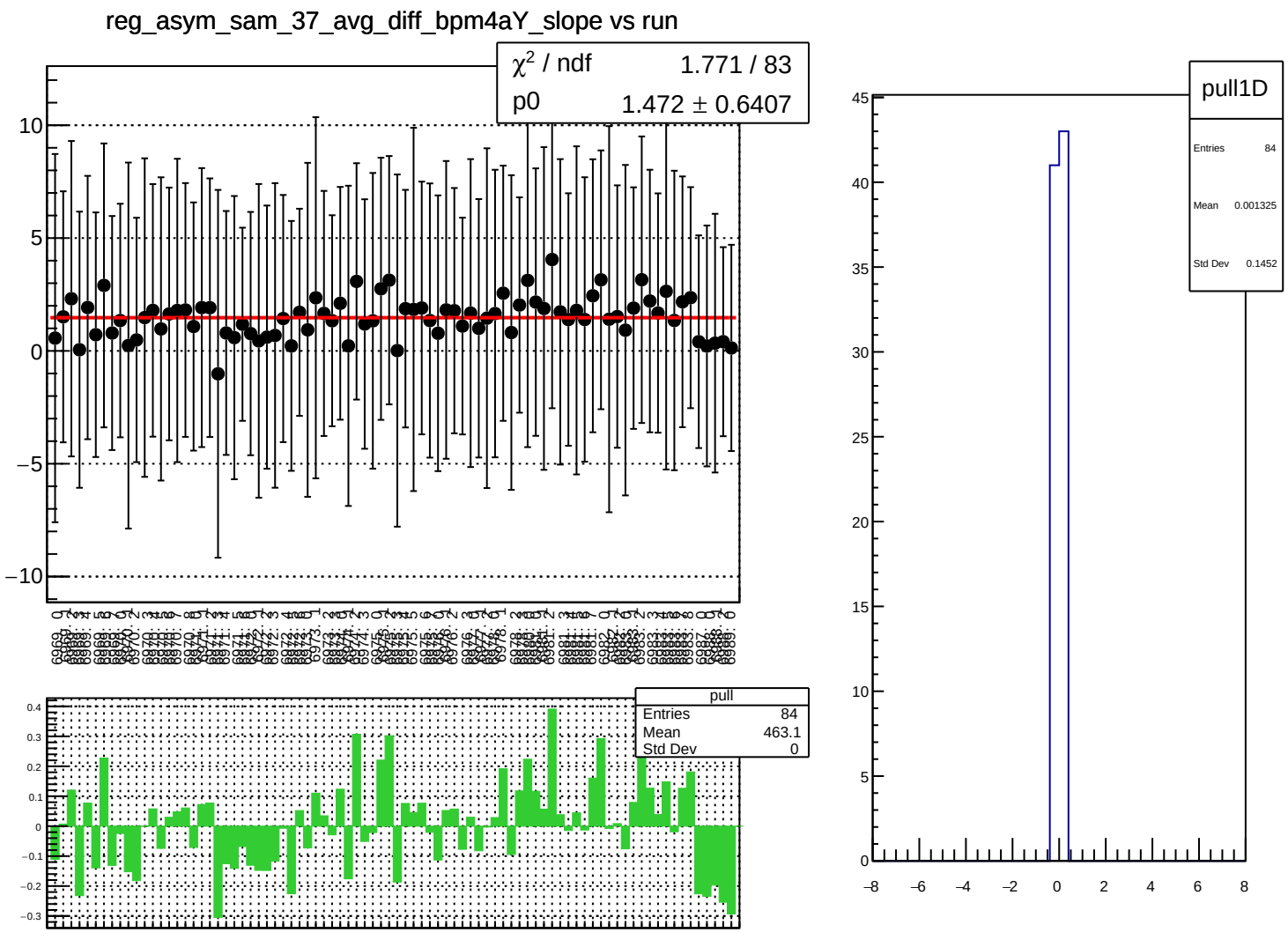

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.014 / 83
p0 −11.54 ± 0.7402
pull
Entries 84
Mean 220.9
Std Dev 0
pull1D
Entries 84
Mean −0.01315
Std Dev 0.244

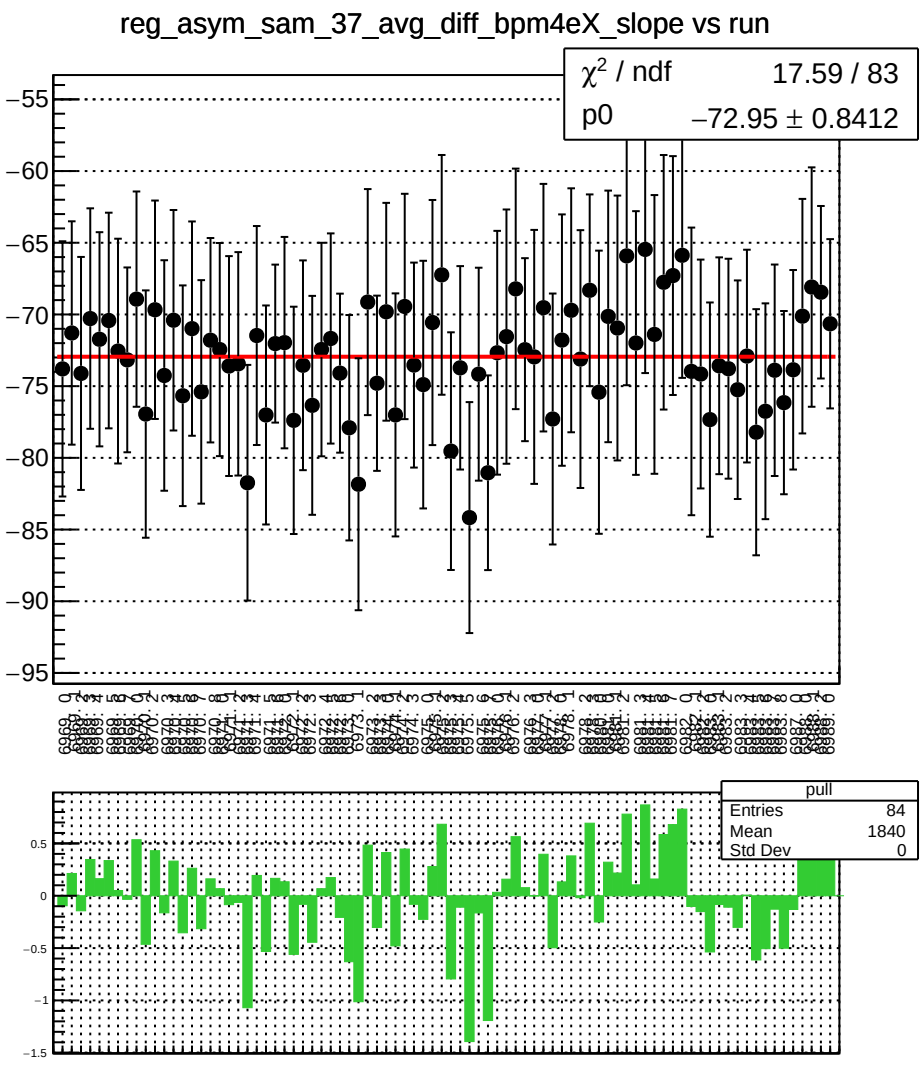

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.266 / 83
p0 −37.16 ± 0.647
pull
Entries 84
Mean −13.35
Std Dev 53.99
pull1D
Entries 84
Mean 0.008334
Std Dev 0.273

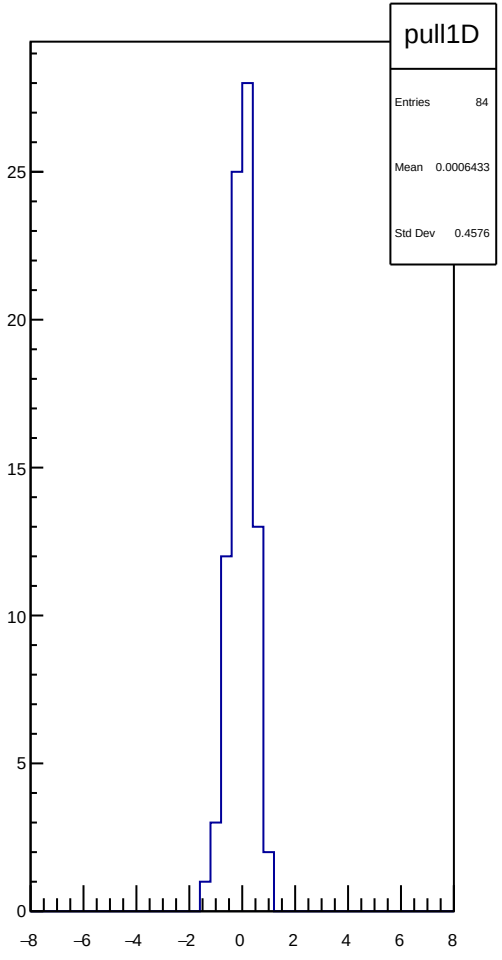

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 17.62 / 83
p0 0.5713 ± 0.02425
pull
Entries 84
Mean −62.01
Std Dev 0
pull1D
Entries 84
Mean 0.02972
Std Dev 0.457

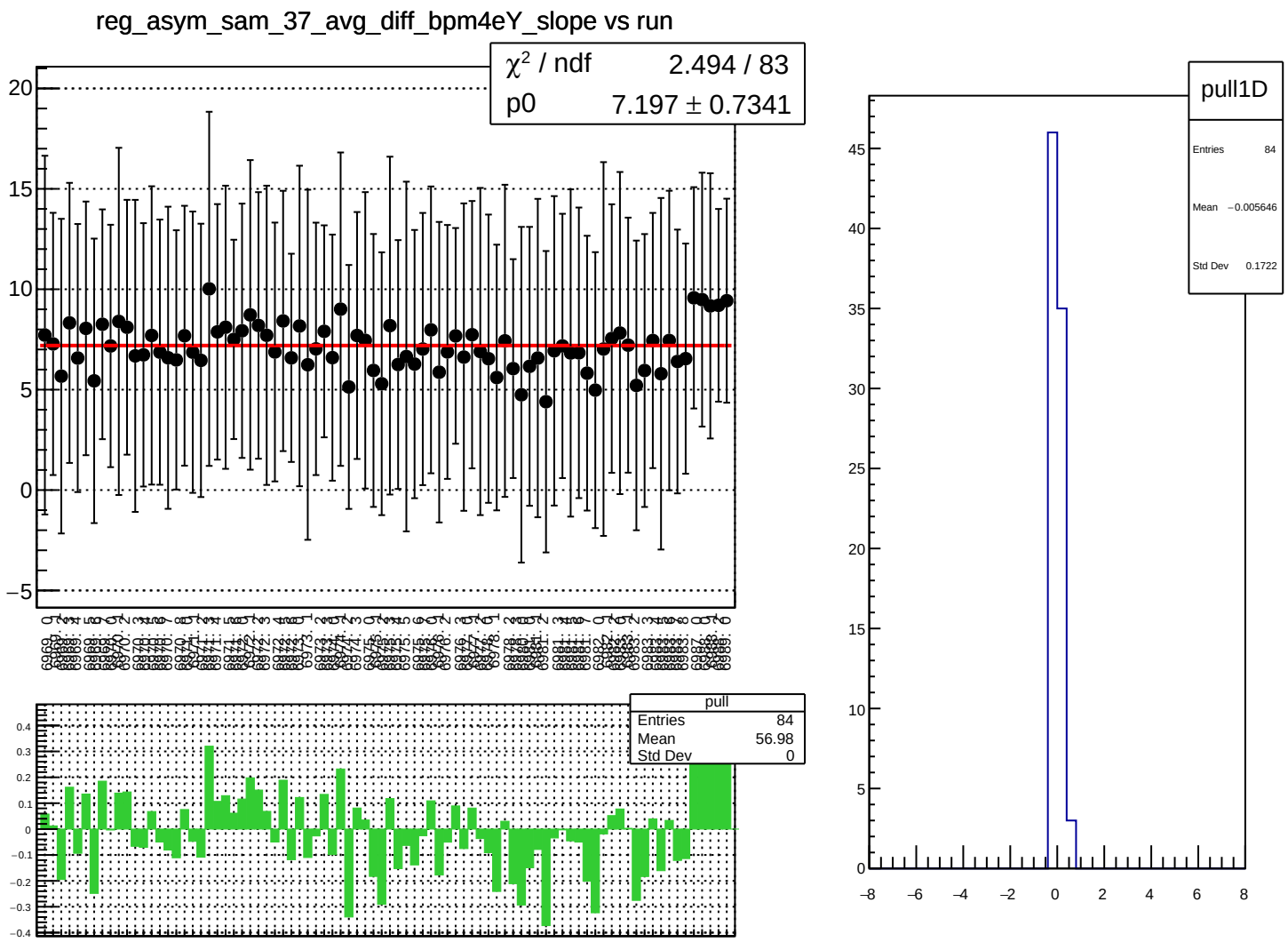

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 14.83 / 83
p0 −8.324 ± 0.9167
pull
Entries 84
Mean 319.8
Std Dev 0

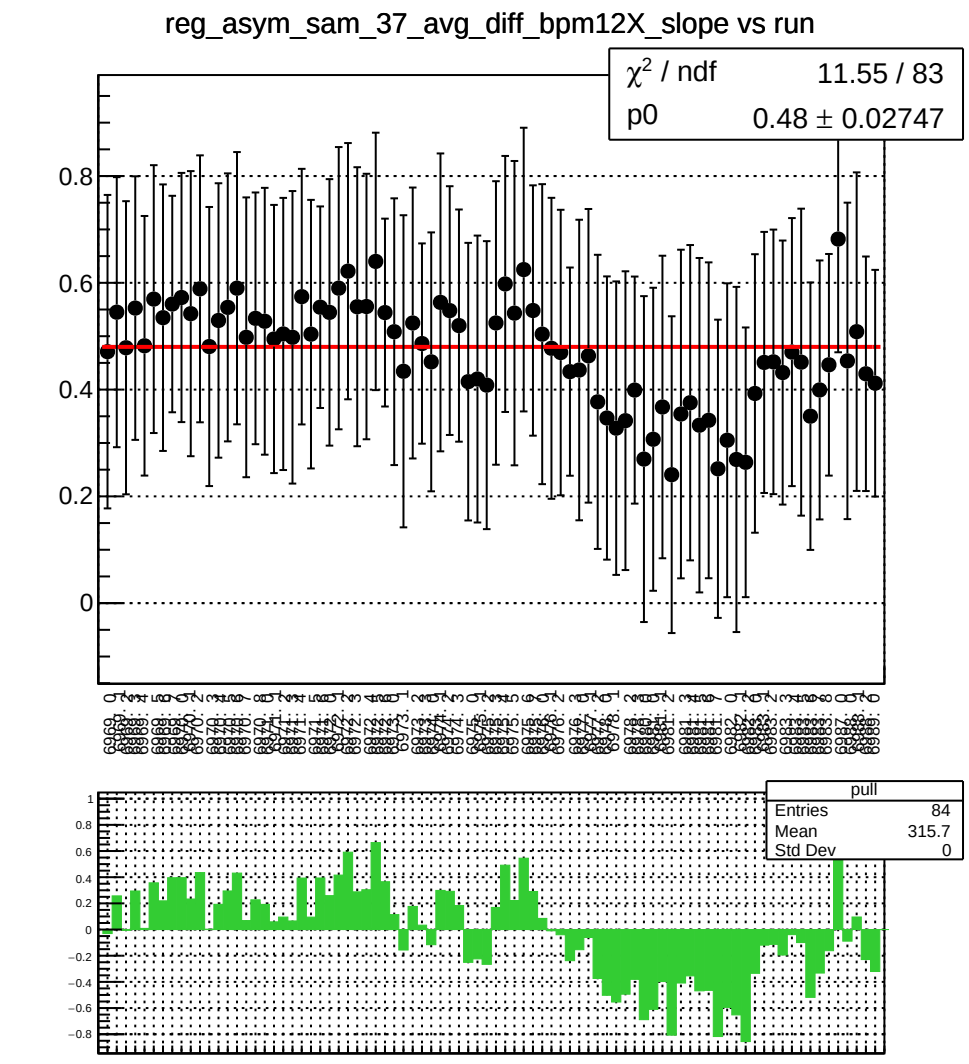

pull1D
Entries 84
Mean −0.007785
Std Dev 0.4201

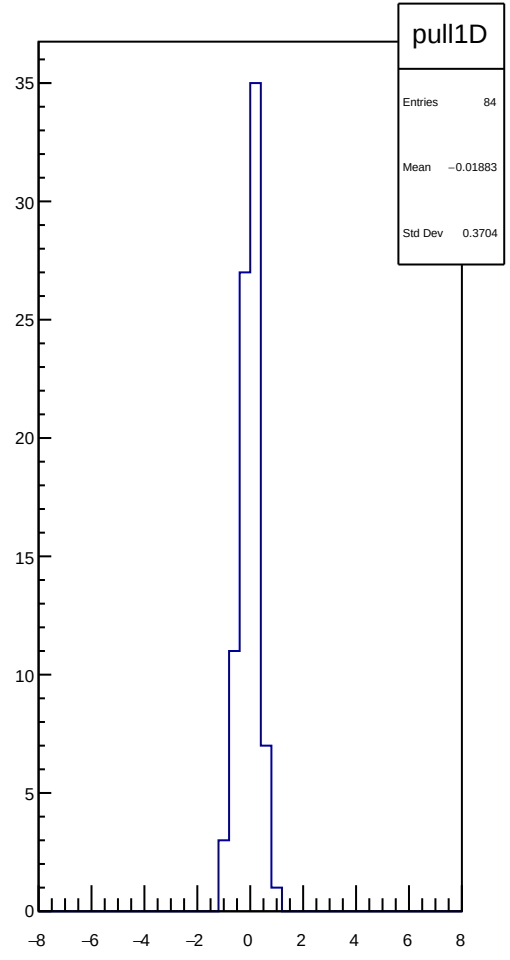

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.771 / 83
p0 1.472 ± 0.6407
pull
Entries 84
Mean 463.1
Std Dev 0
pull1D
Entries 84
Mean 0.001325
Std Dev 0.1452

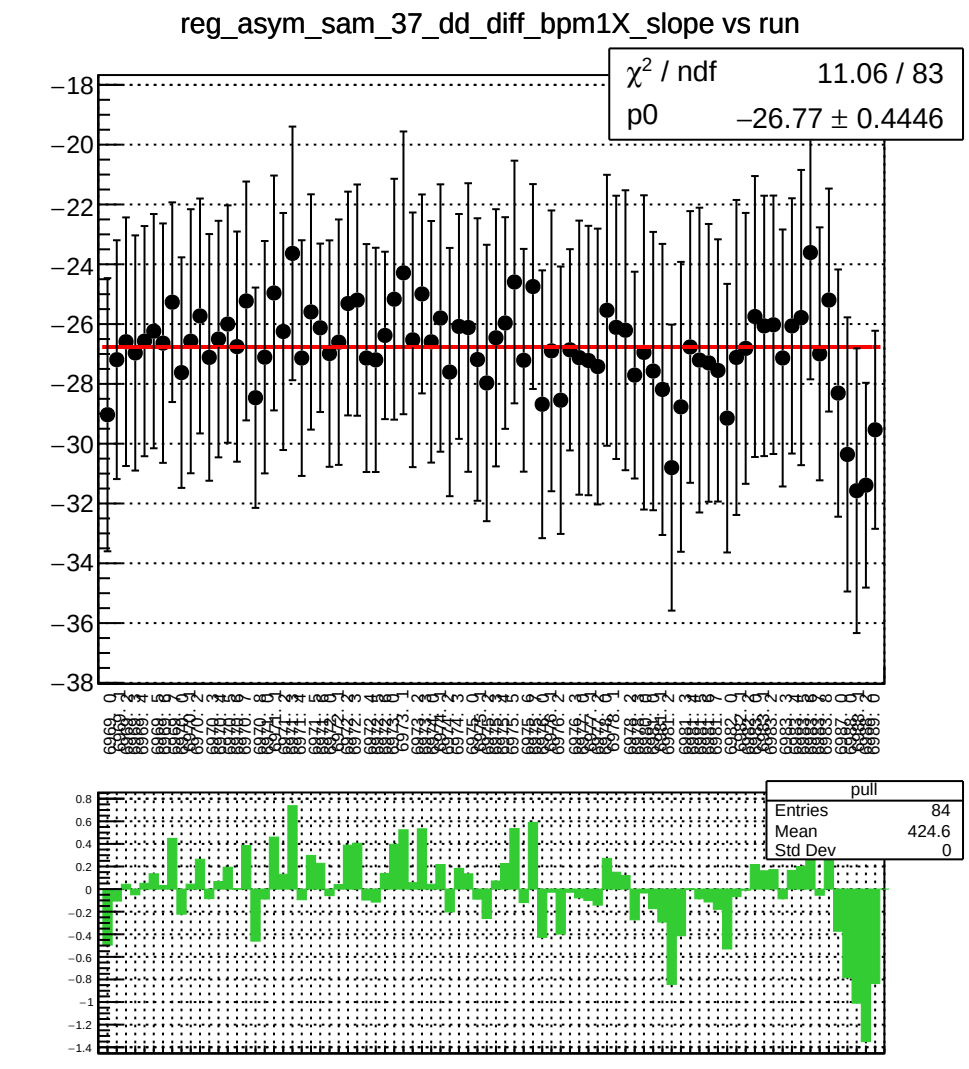

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.59 / 83
p0 −72.95 ± 0.8412
pull
Entries 84
Mean 1840
Std Dev 0

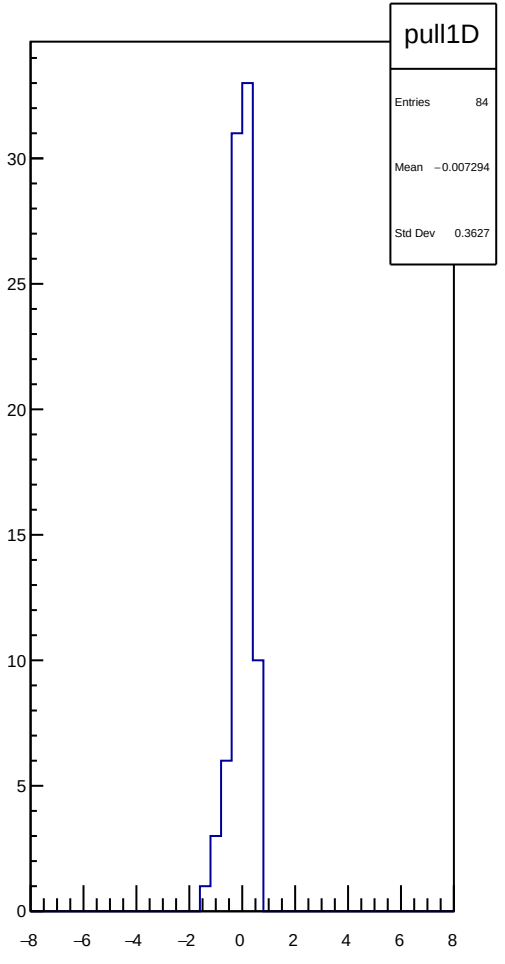

pull1D
Entries 84
Mean 0.0006433
Std Dev 0.4576

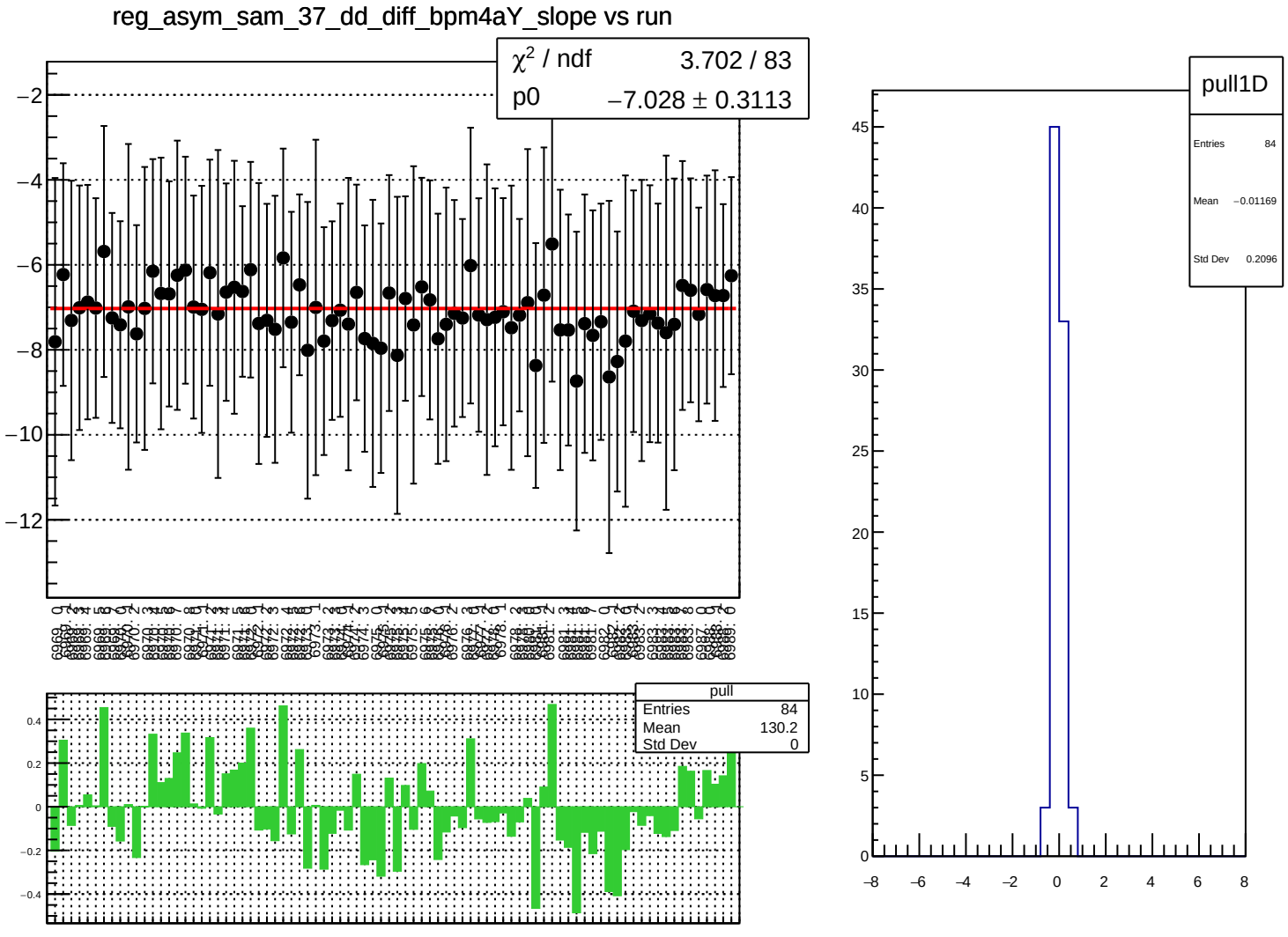

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.494 / 83
p0 7.197 ± 0.7341
pull
Entries 84
Mean 56.98
Std Dev 0
pull1D
Entries 84
Mean −0.005646
Std Dev 0.1722

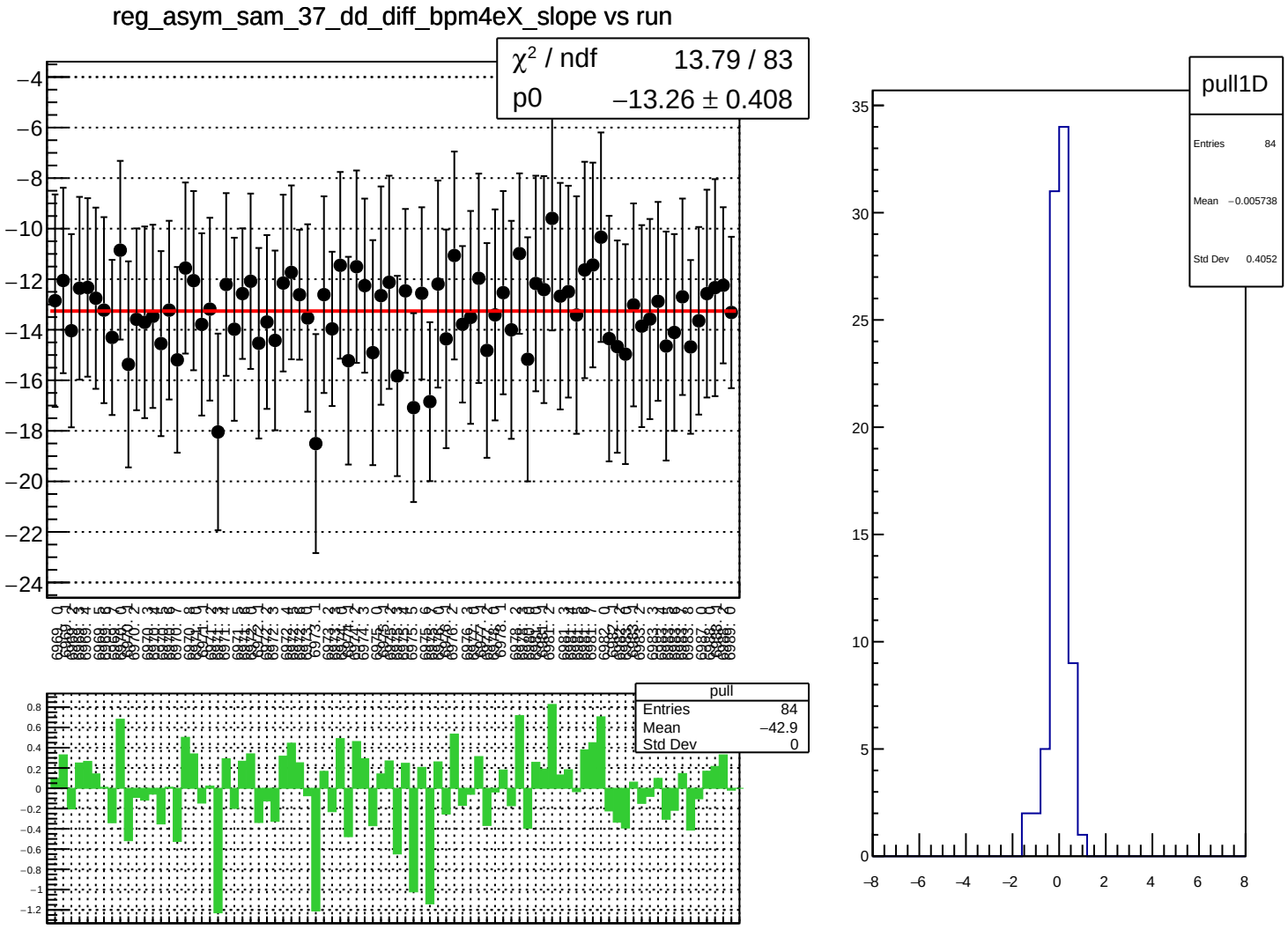

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 11.55 / 83
p0 0.48 ± 0.02747
pull
Entries 84
Mean 315.7
Std Dev 0

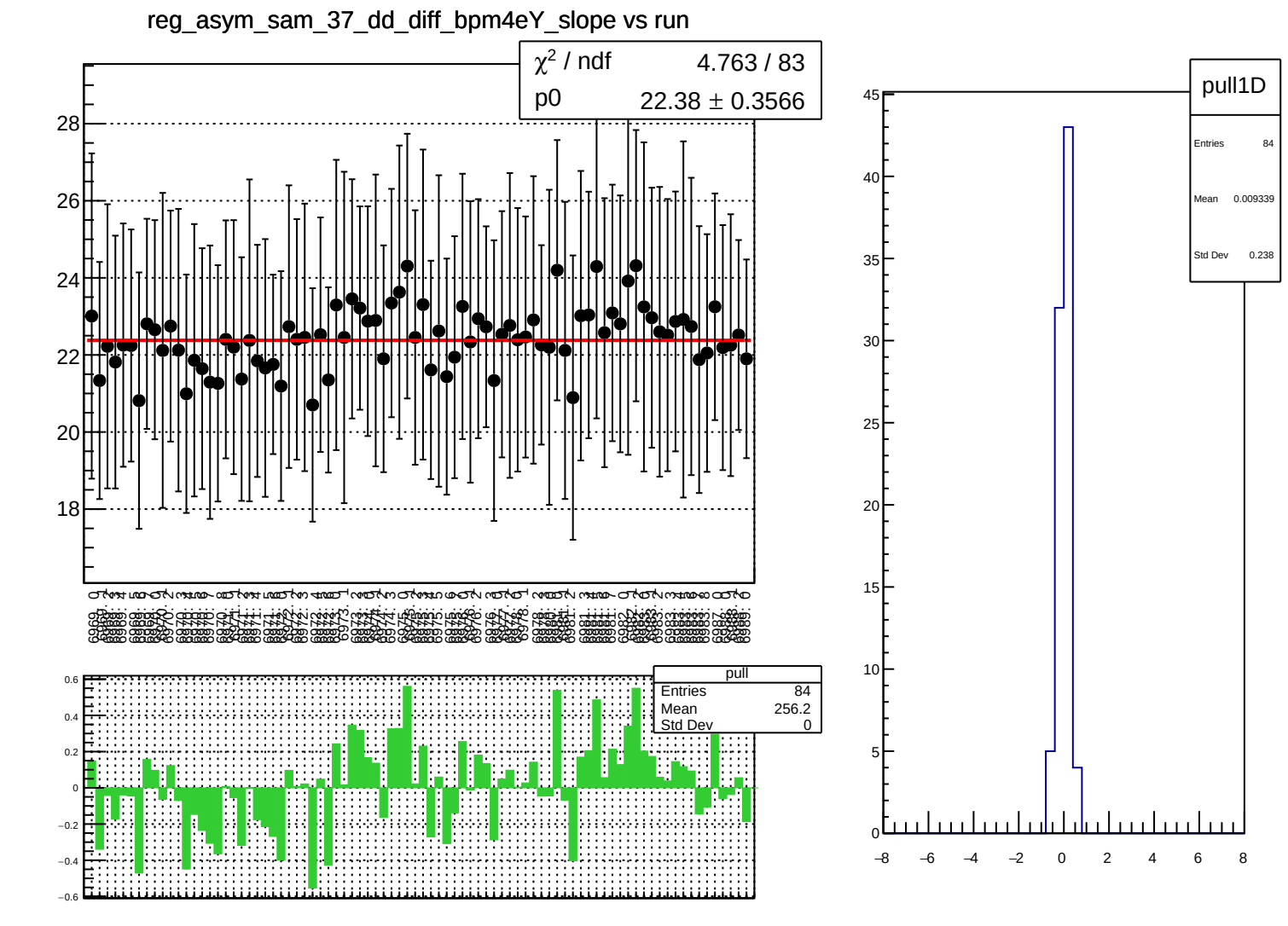

pull1D
Entries 84
Mean −0.01883
Std Dev 0.3704

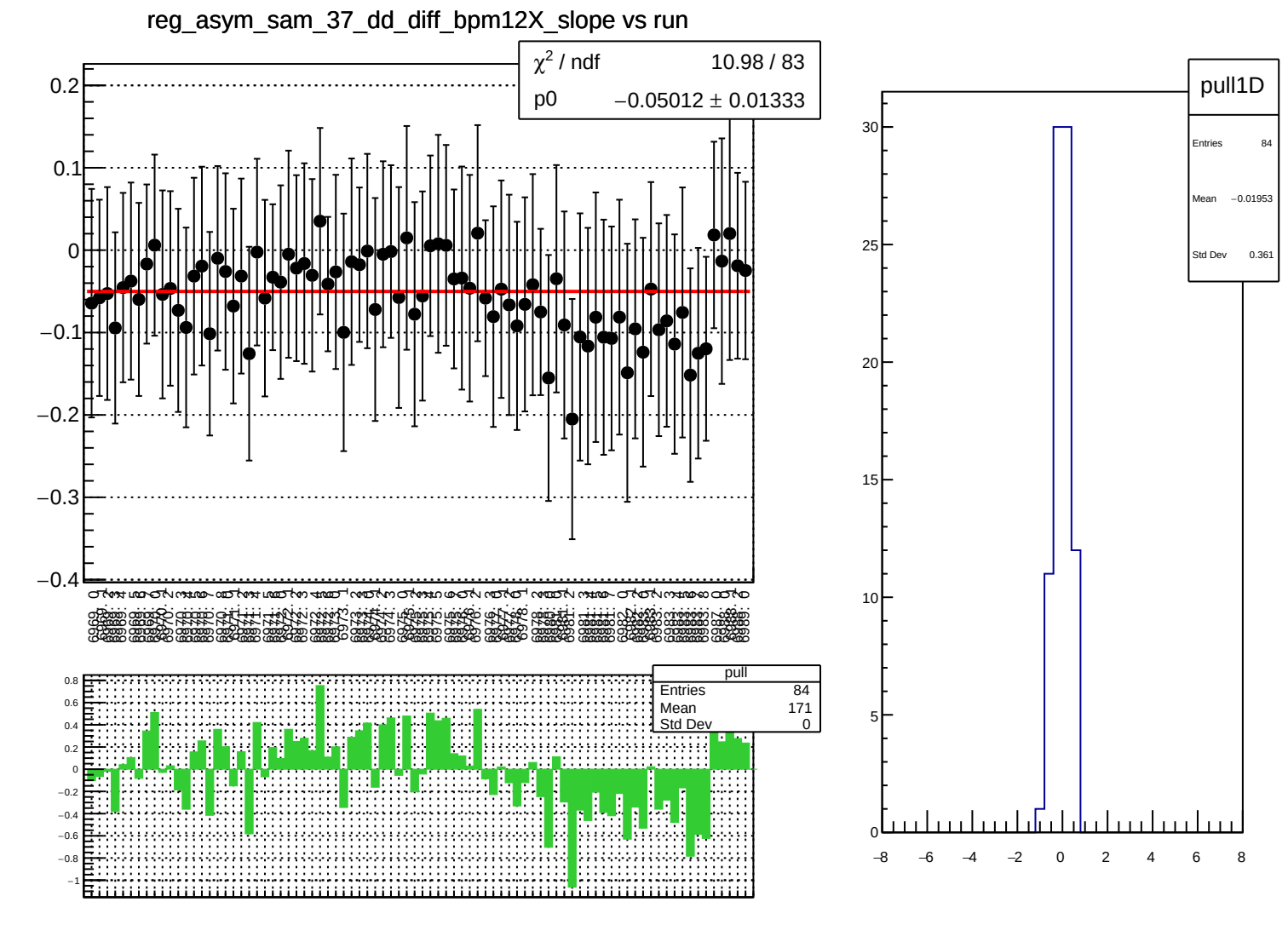

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 11.06 / 83
p0 −26.77 ± 0.4446
pull
Entries 84
Mean 424.6
Std Dev 0

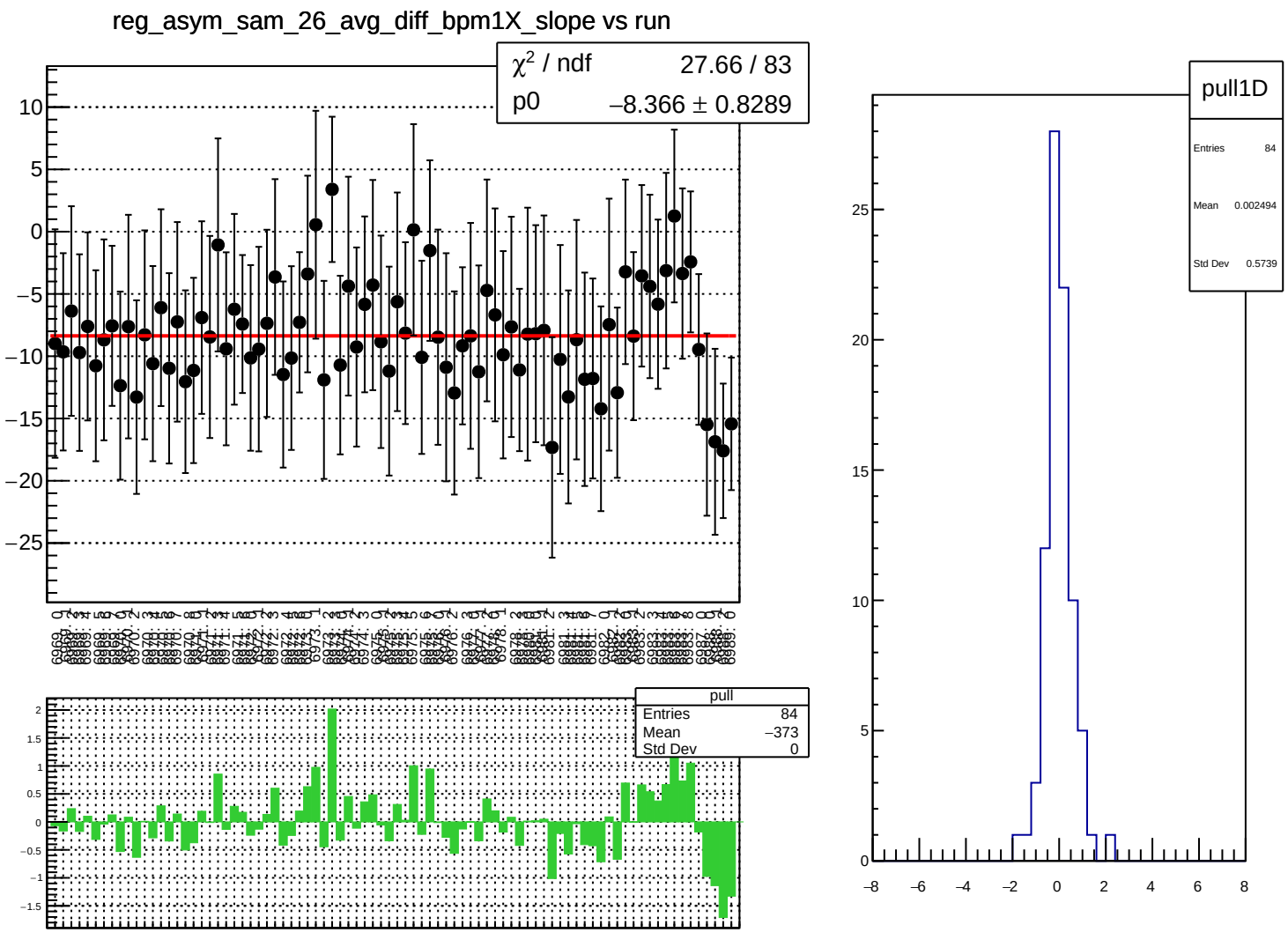

pull1D
Entries 84
Mean −0.007294
Std Dev 0.3627

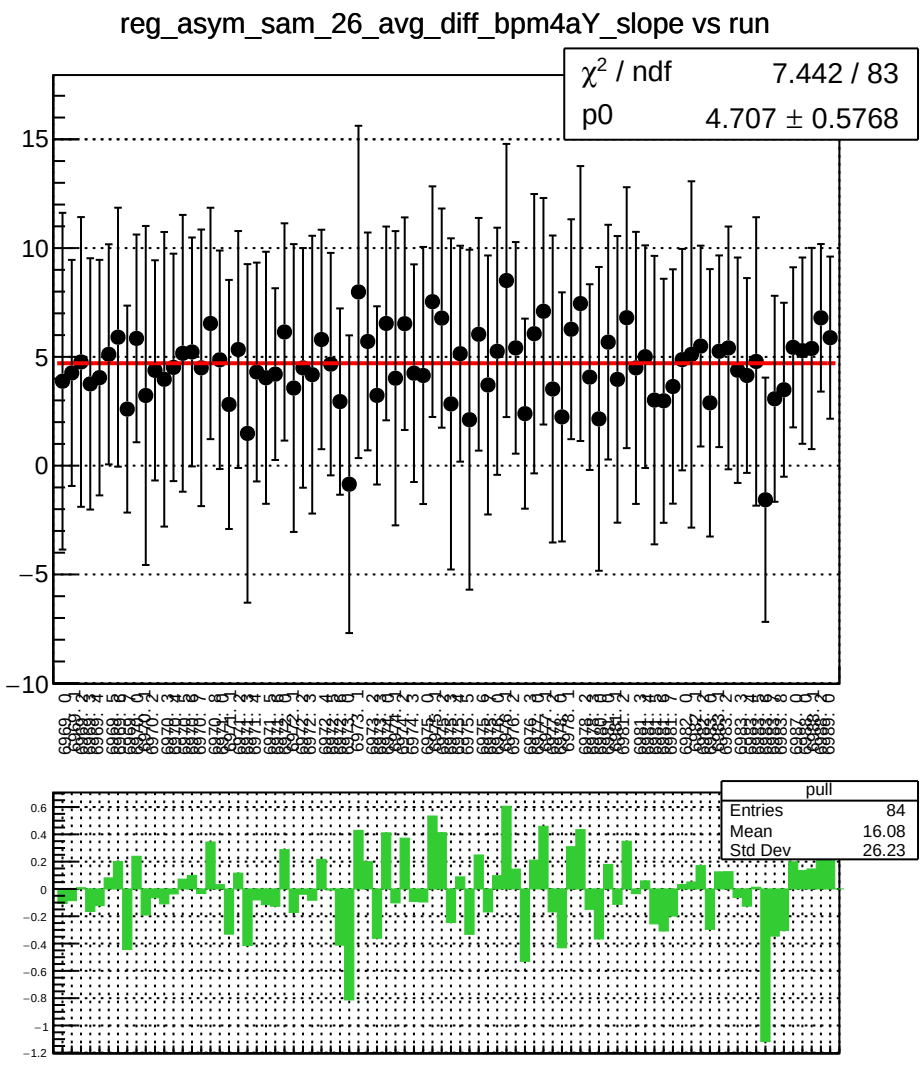

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.702 / 83
p0 −7.028 ± 0.3113
pull
Entries 84
Mean 130.2
Std Dev 0
pull1D
Entries 84
Mean −0.01169
Std Dev 0.2096

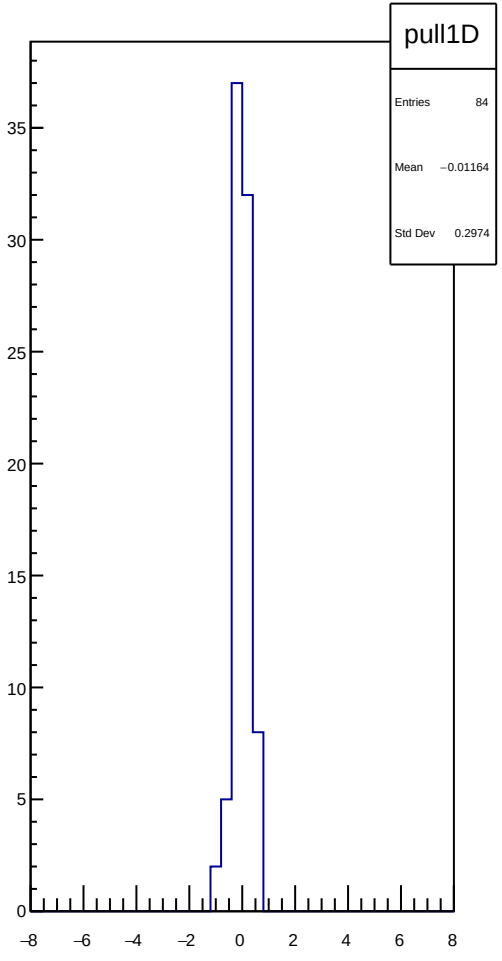

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.79 / 83
p0 −13.26 ± 0.408
pull
Entries 84
Mean −42.9
Std Dev 0
pull1D
Entries 84
Mean −0.005738
Std Dev 0.4052

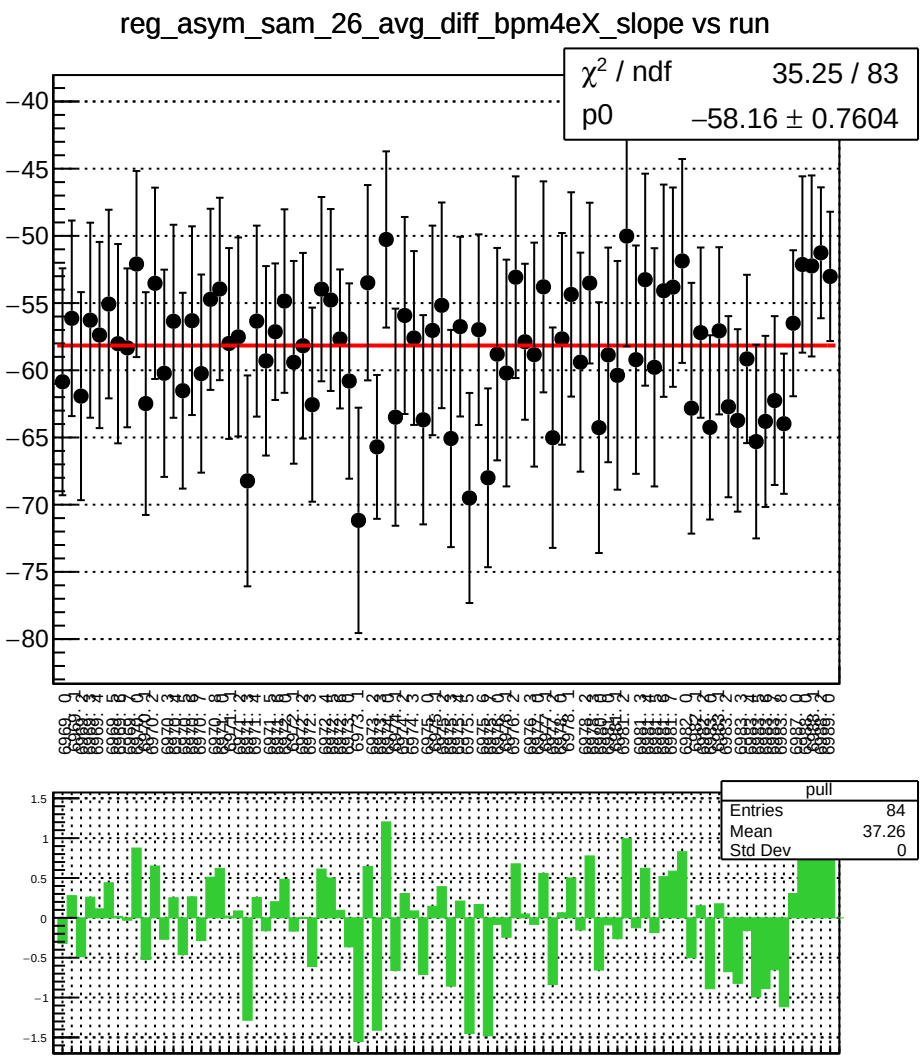

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.763 / 83
p0 22.38 ± 0.3566
pull
Entries 84
Mean 256.2
Std Dev 0
pull1D
Entries 84
Mean 0.009339
Std Dev 0.238

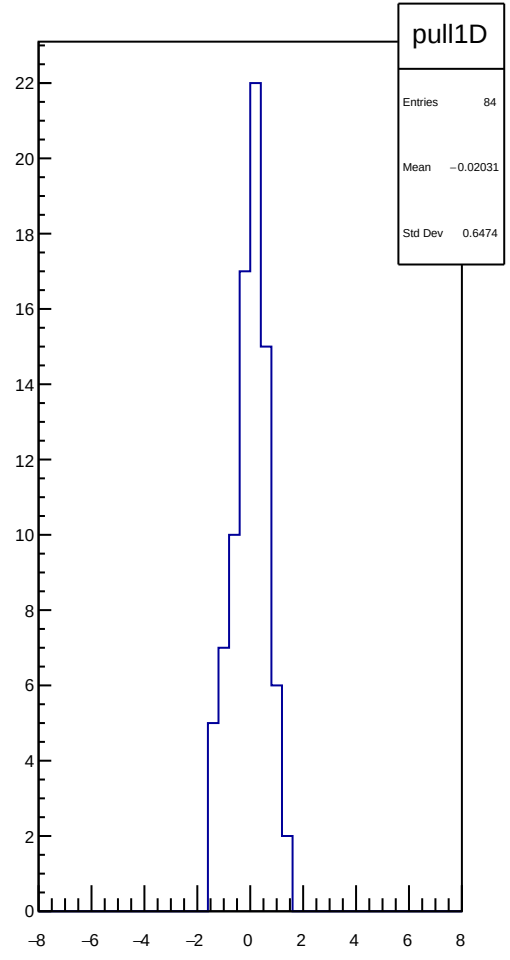

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 10.98 / 83
p0 −0.05012 ± 0.01333
pull
Entries 84
Mean 171
Std Dev 0
pull1D
Entries 84
Mean −0.01953
Std Dev 0.361

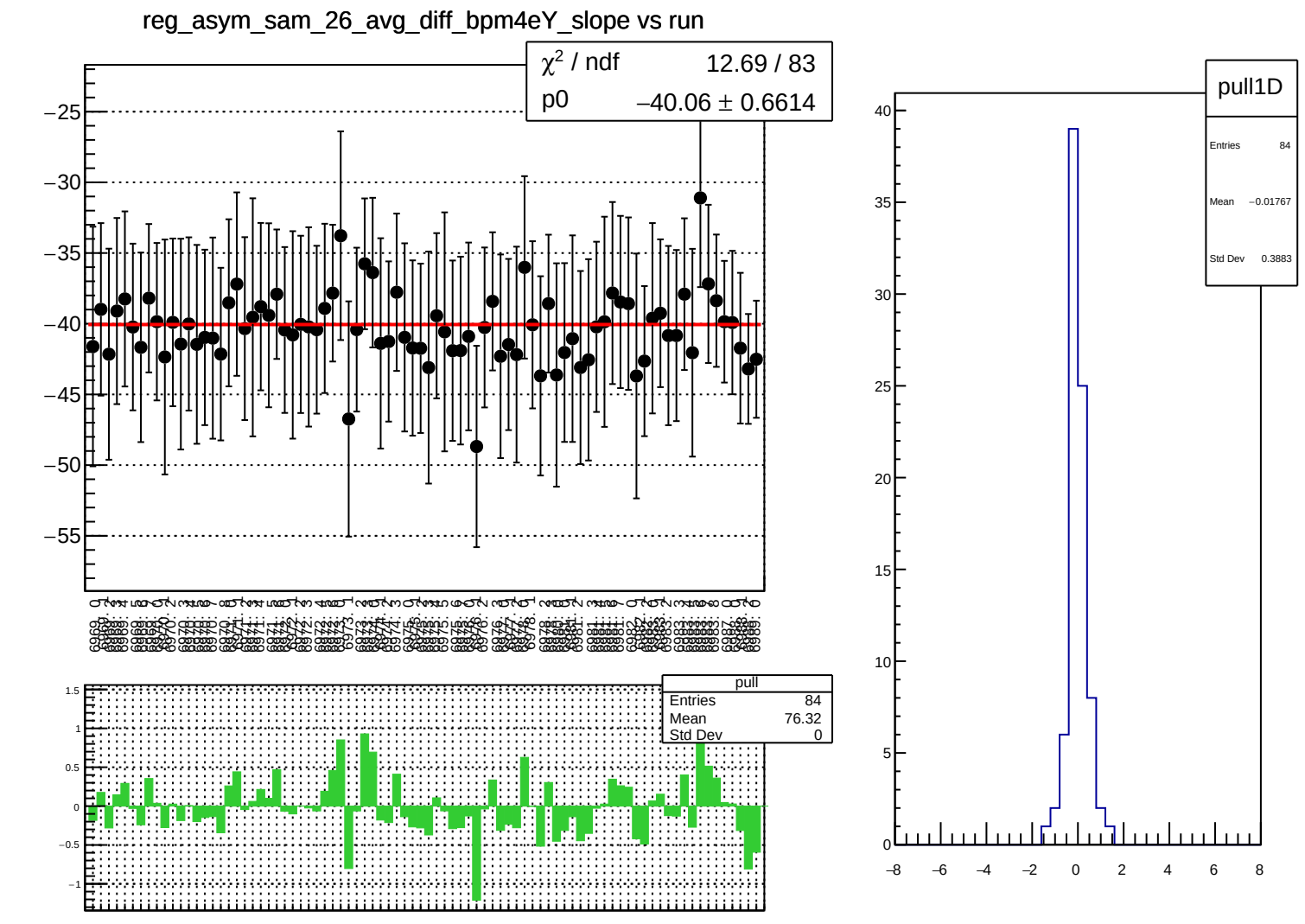

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 27.66 / 83
p0 −8.366 ± 0.8289
pull
Entries 84
Mean −373
Std Dev 0
pull1D
Entries 84
Mean 0.002494
Std Dev 0.5739

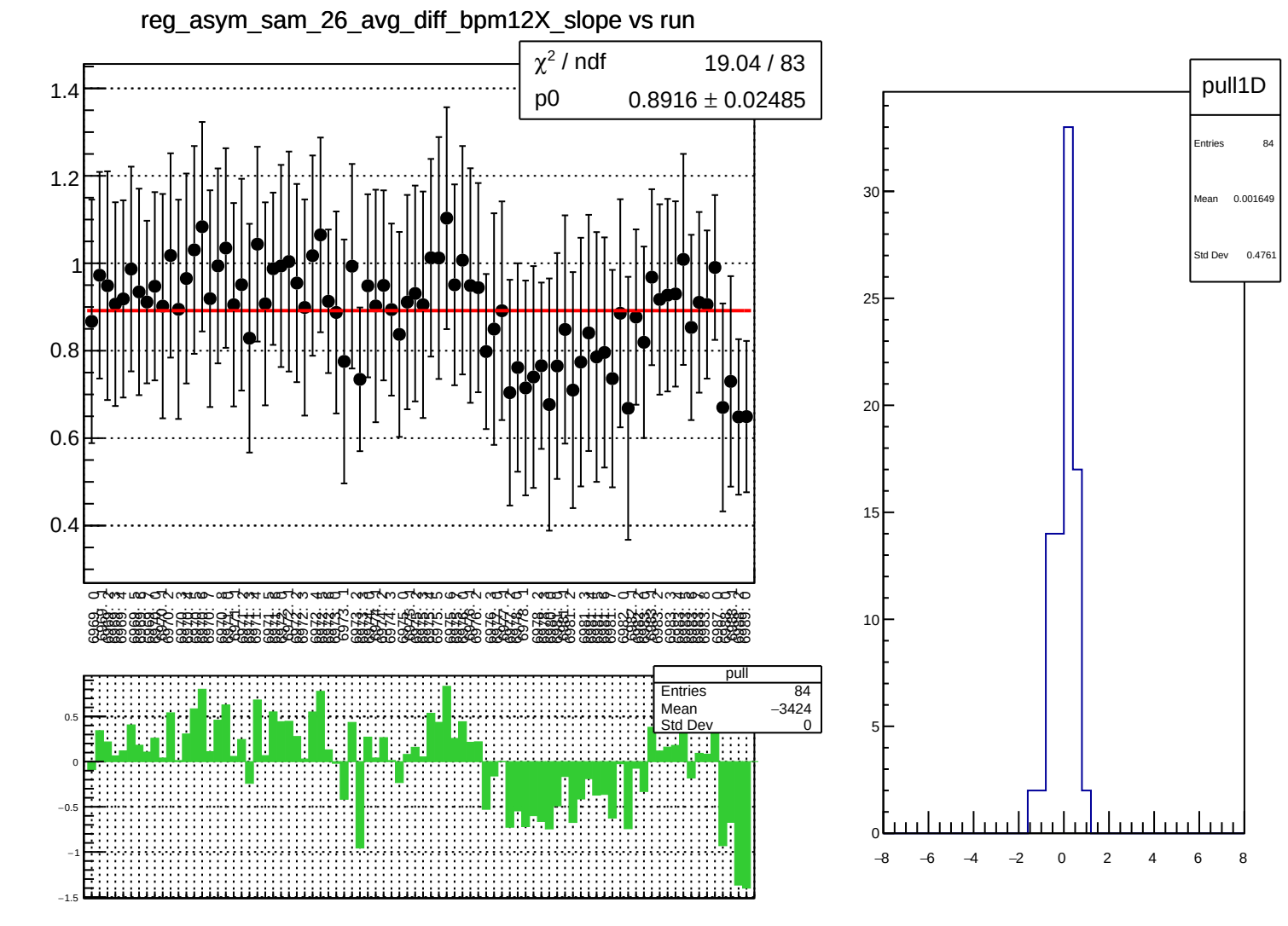

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.442 / 83
p0 4.707 ± 0.5768
pull
Entries 84
Mean 16.08
Std Dev 26.23

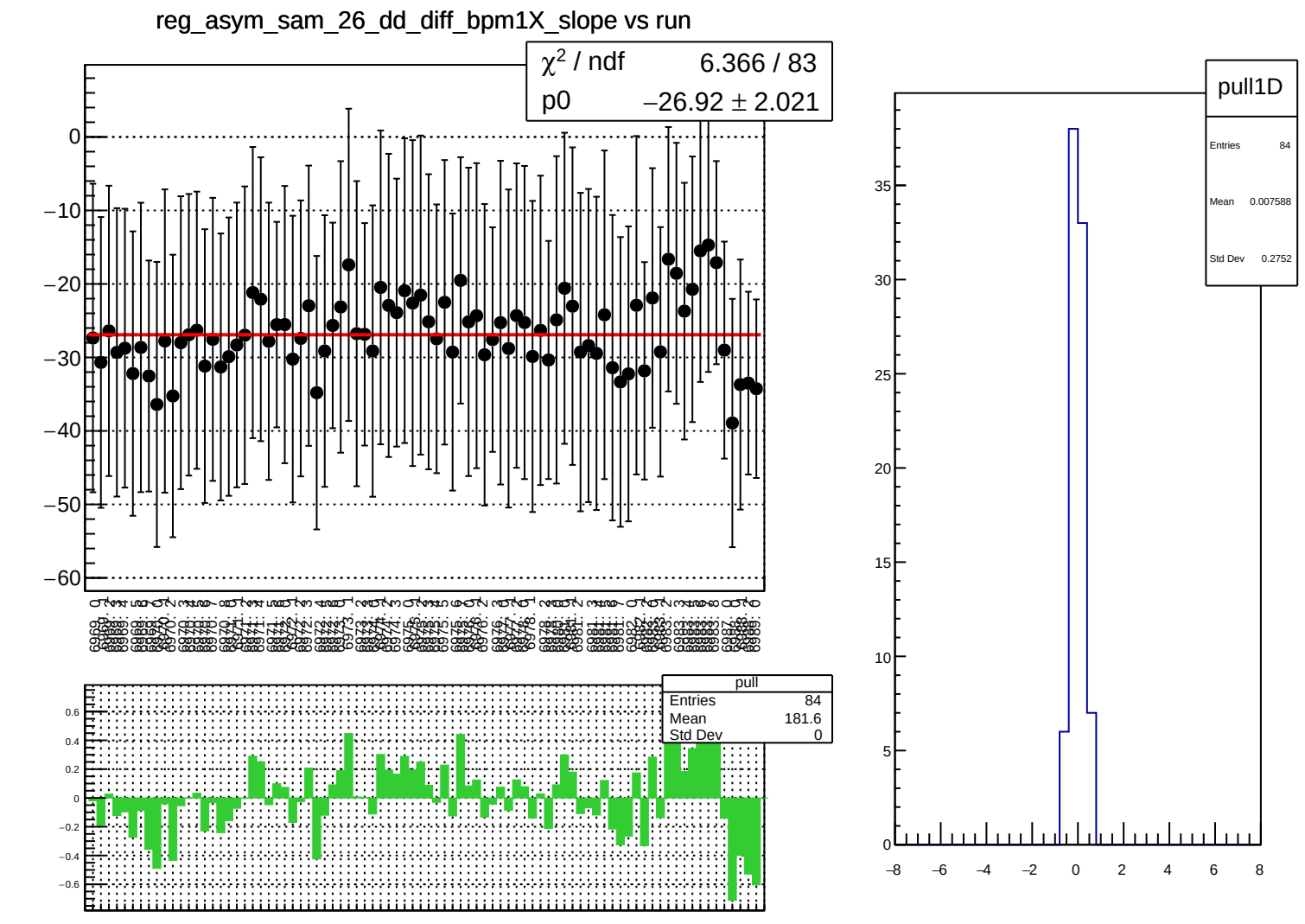

pull1D
Entries 84
Mean −0.01164
Std Dev 0.2974

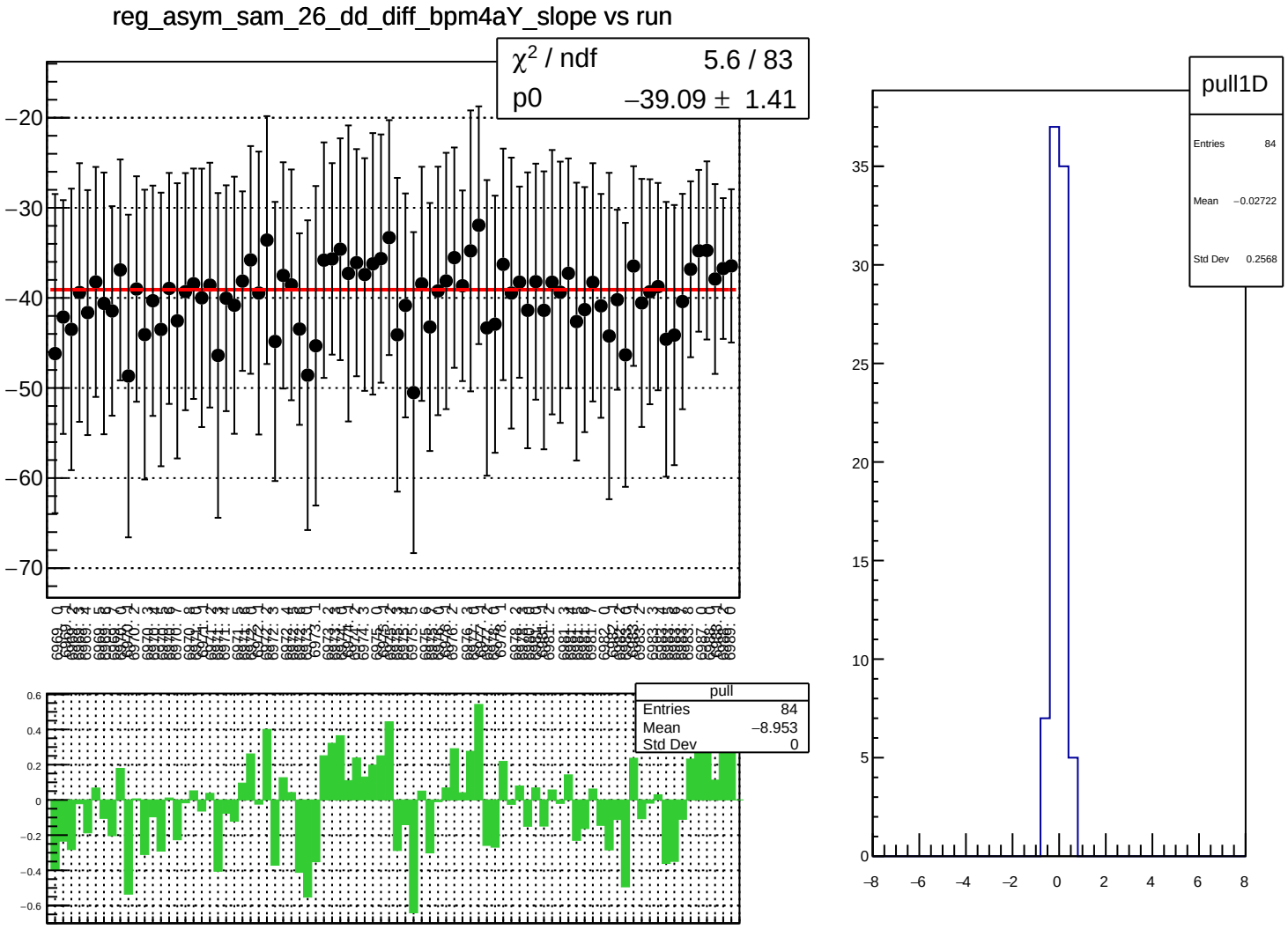

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.25 / 83
p0 −58.16 ± 0.7604
pull
Entries 84
Mean 37.26
Std Dev 0

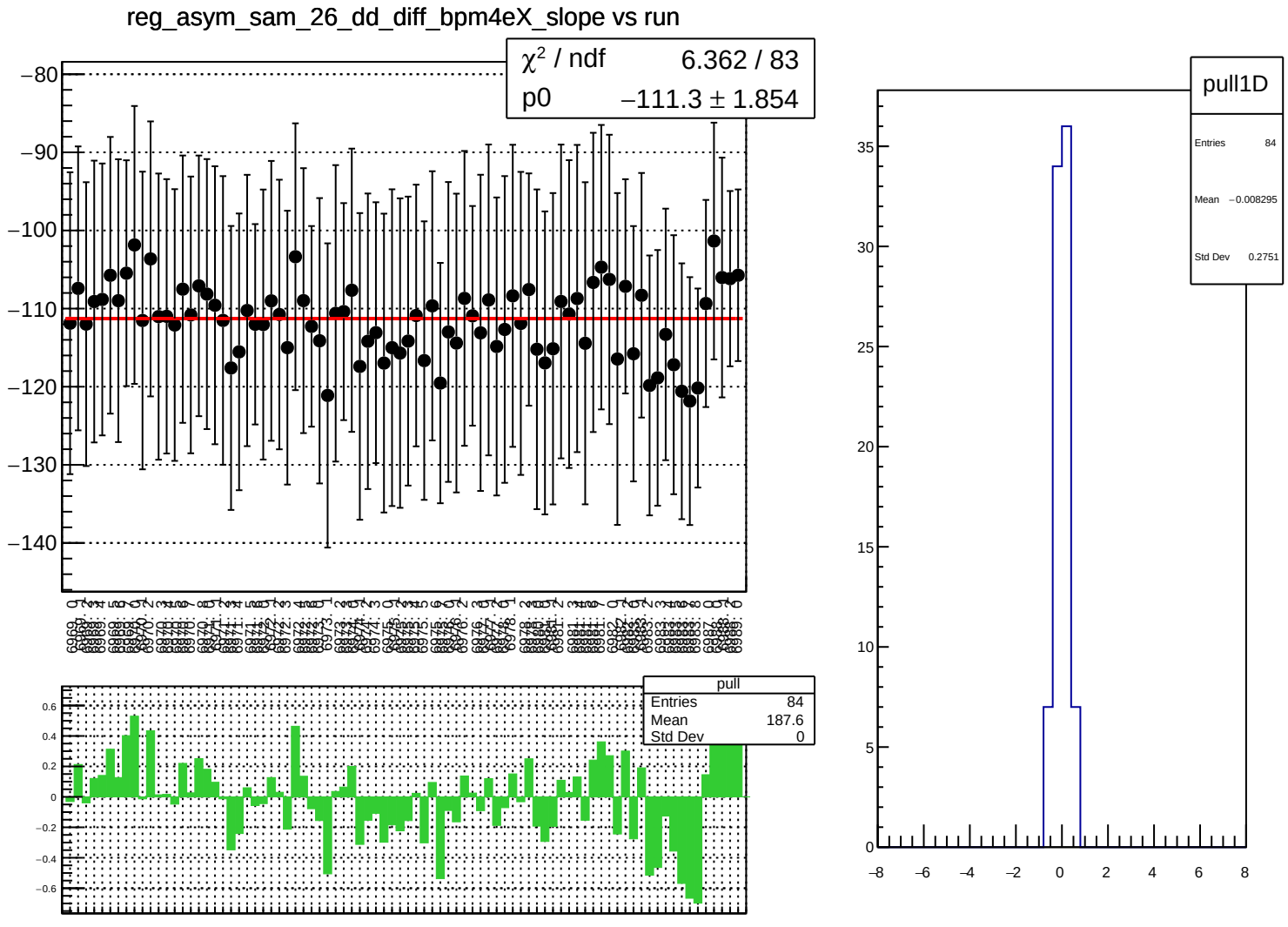

pull1D
Entries 84
Mean −0.02031
Std Dev 0.6474

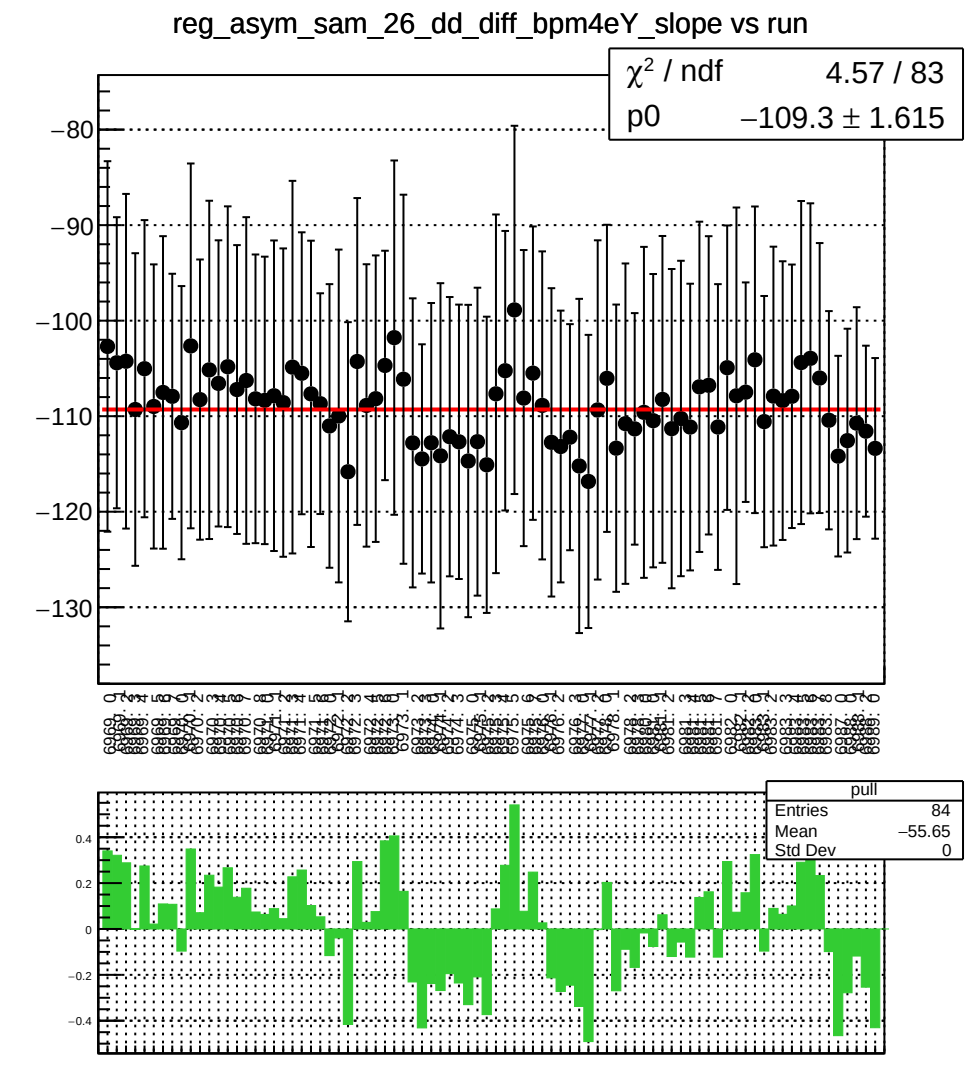

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.69 / 83
p0 −40.06 ± 0.6614
pull
Entries 84
Mean 76.32
Std Dev 0
pull1D
Entries 84
Mean −0.01767
Std Dev 0.3883

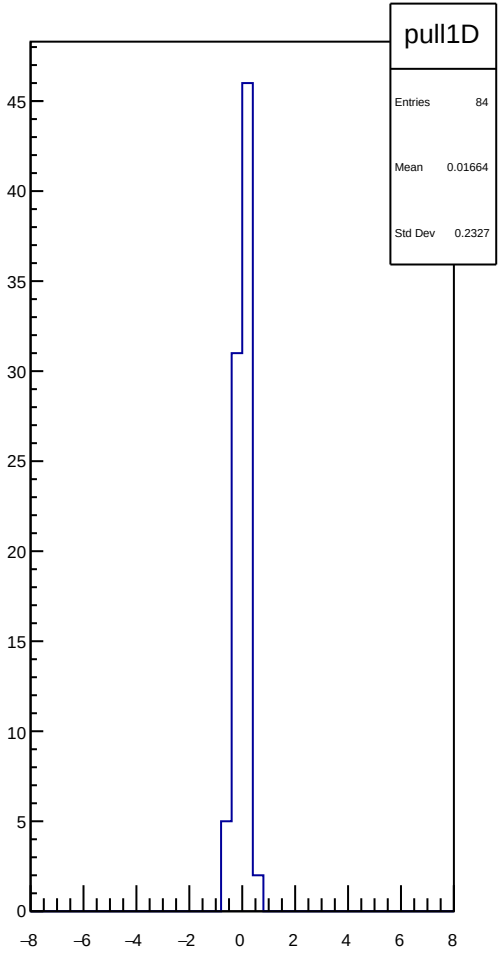

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 19.04 / 83
p0 0.8916 ± 0.02485
pull
Entries 84
Mean −3424
Std Dev 0
pull1D
Entries 84
Mean 0.001649
Std Dev 0.4761

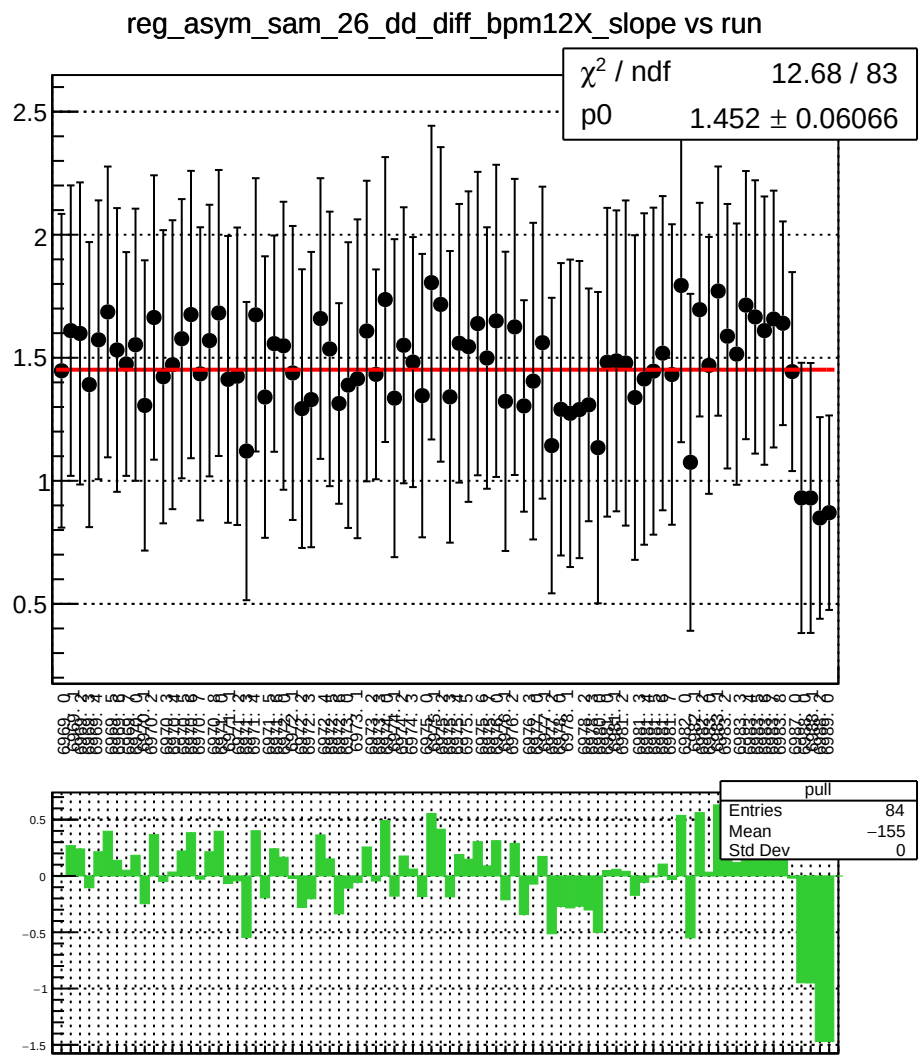

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 6.366 / 83
p0 −26.92 ± 2.021
pull
Entries 84
Mean 181.6
Std Dev 0
pull1D
Entries 84
Mean 0.007588
Std Dev 0.2752

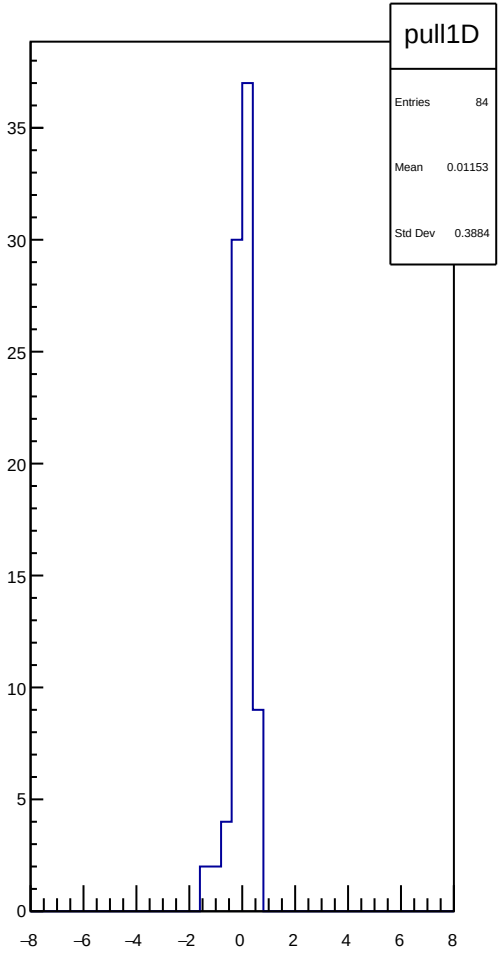

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.6 / 83
p0 −39.09 ± 1.41
−20
−30
−40
−50
−60
−70
pull
Entries 84
Mean −8.953
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 84
Mean −0.02722
Std Dev 0.2568
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

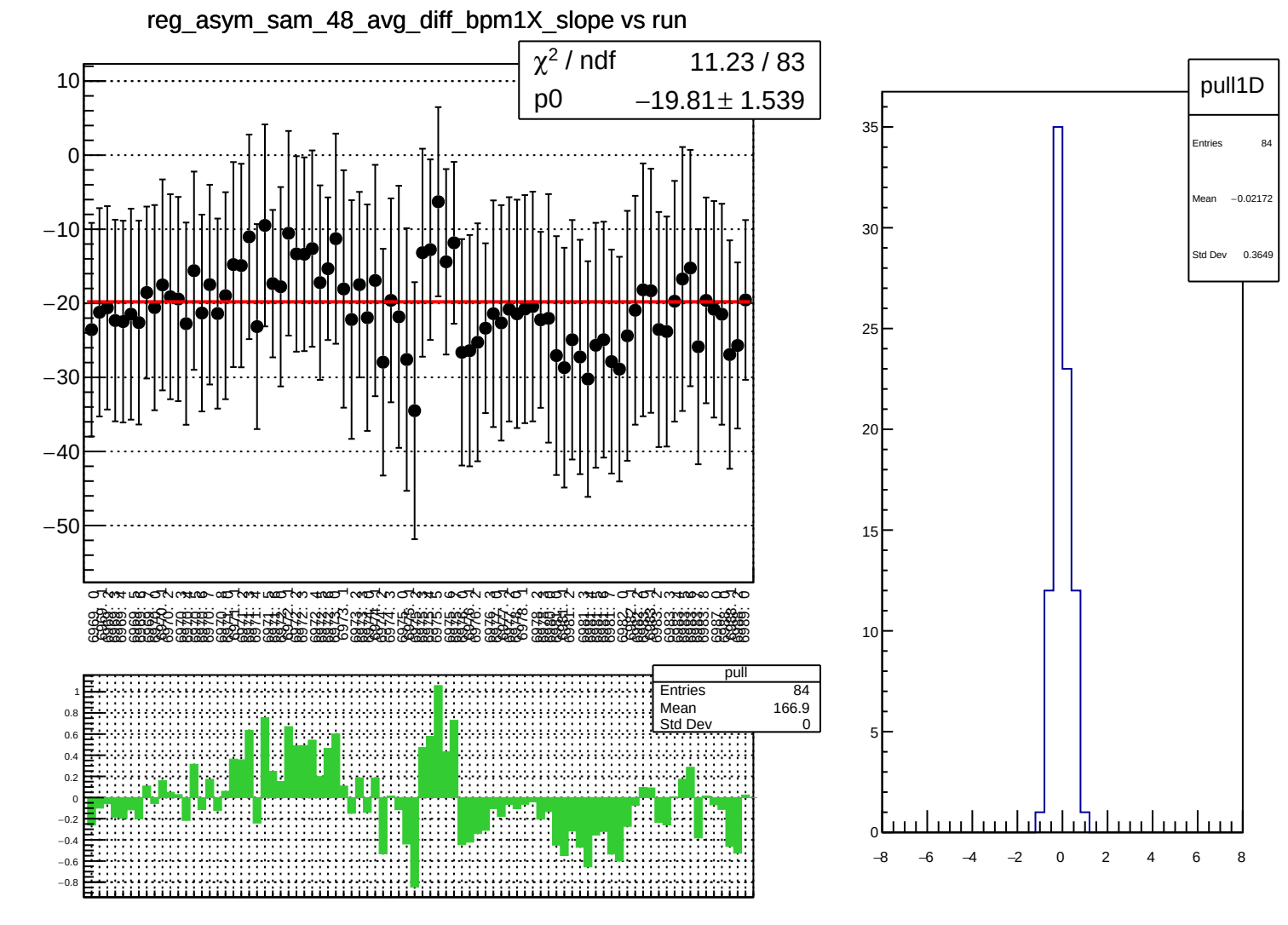

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.362 / 83
p0 −111.3 ± 1.854
−80
−90
−100
−110
−120
−130
−140
pull
Entries 84
Mean 187.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 84
Mean −0.008295
Std Dev 0.2751
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

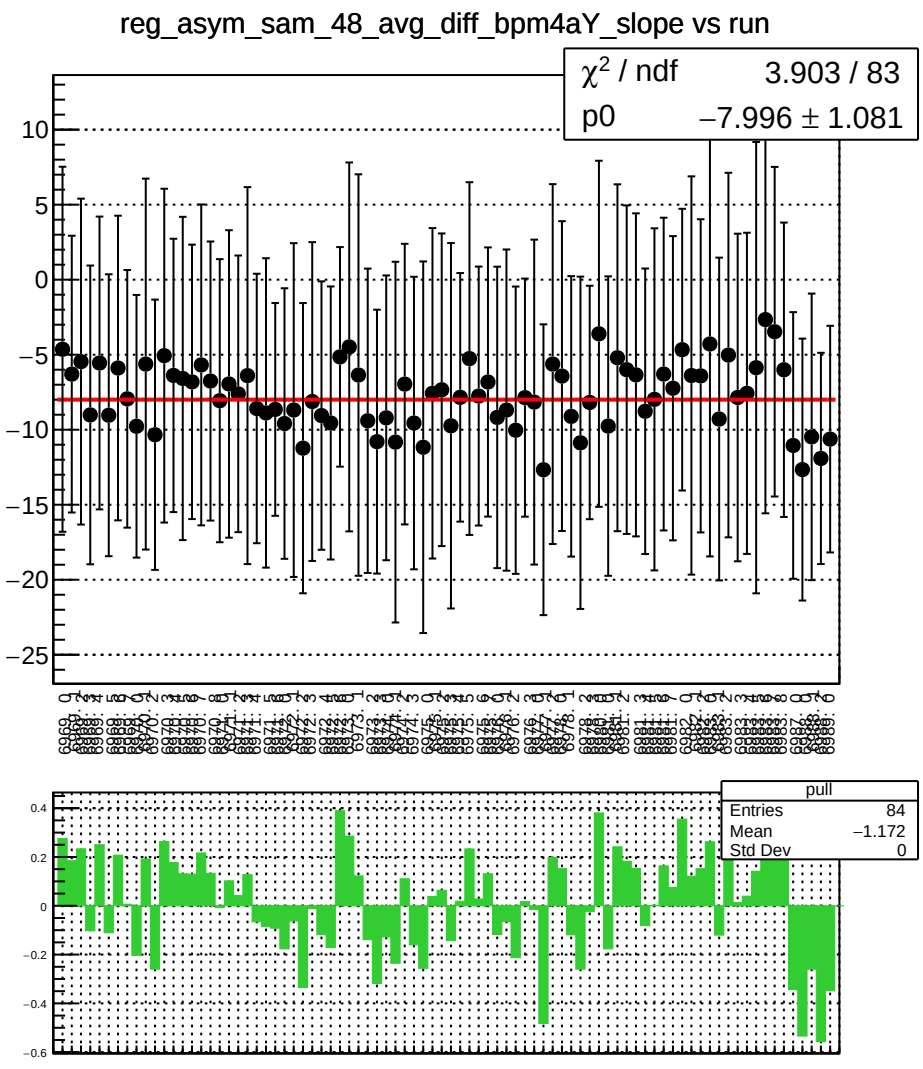

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.57 / 83
p0 −109.3 ± 1.615
−80
−90
−100
−110
−120
−130
pull
Entries 84
Mean −55.65
Std Dev 0
0.4
0.2
0
−0.2
−0.4

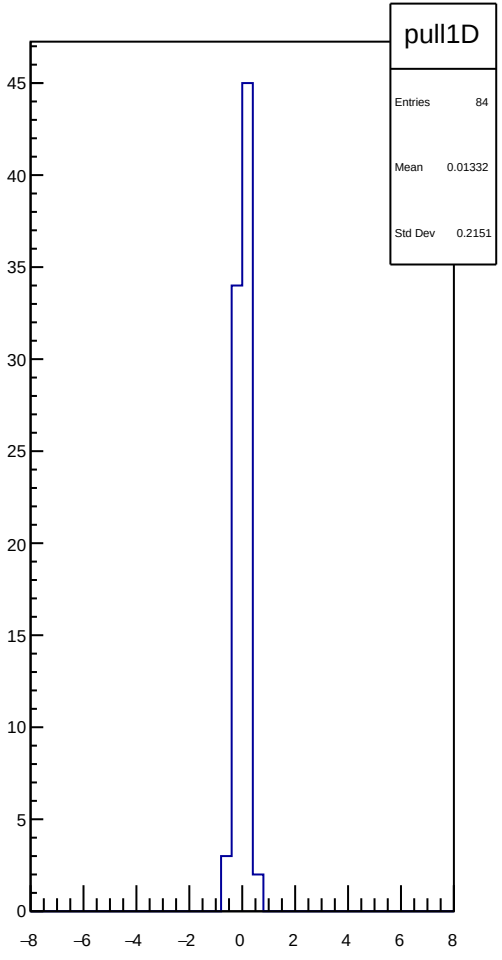

pull1D
Entries 84
Mean 0.01664
Std Dev 0.2327
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

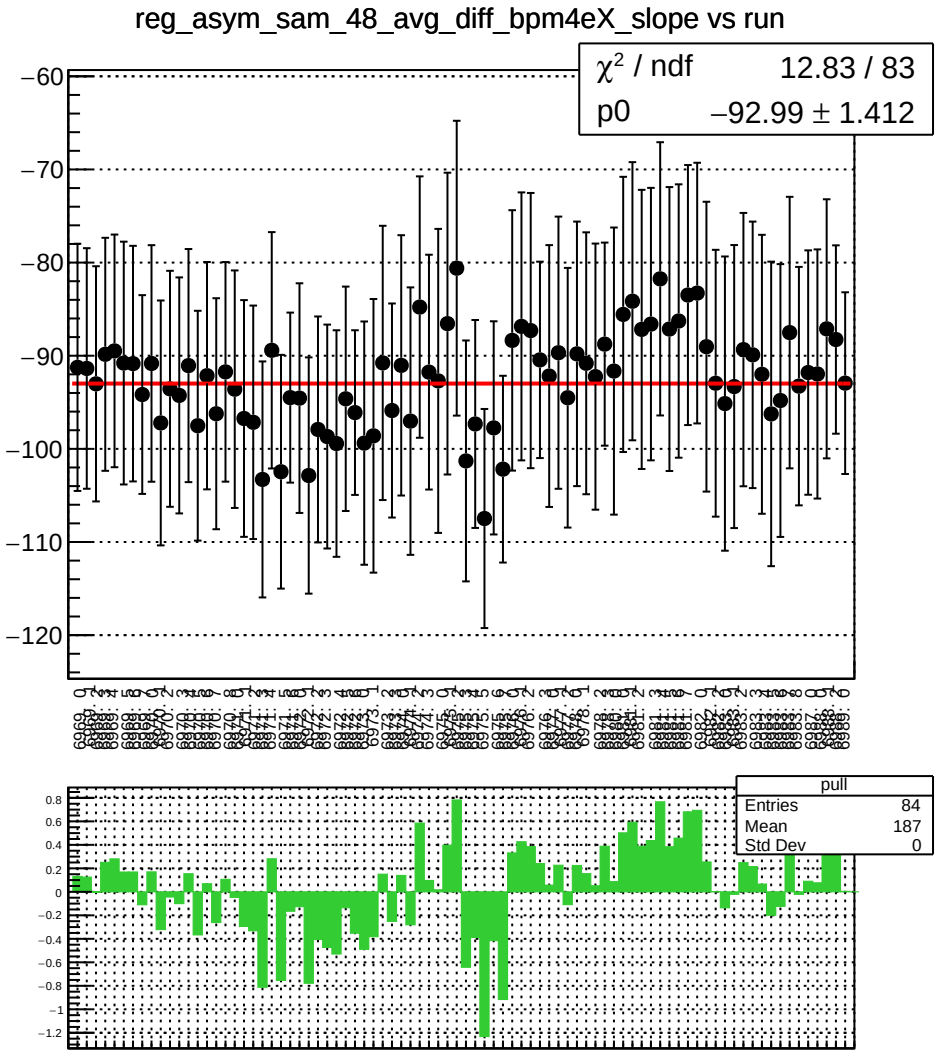

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 12.68 / 83
p0 1.452 ± 0.06066
pull
Entries 84
Mean −155
Std Dev 0

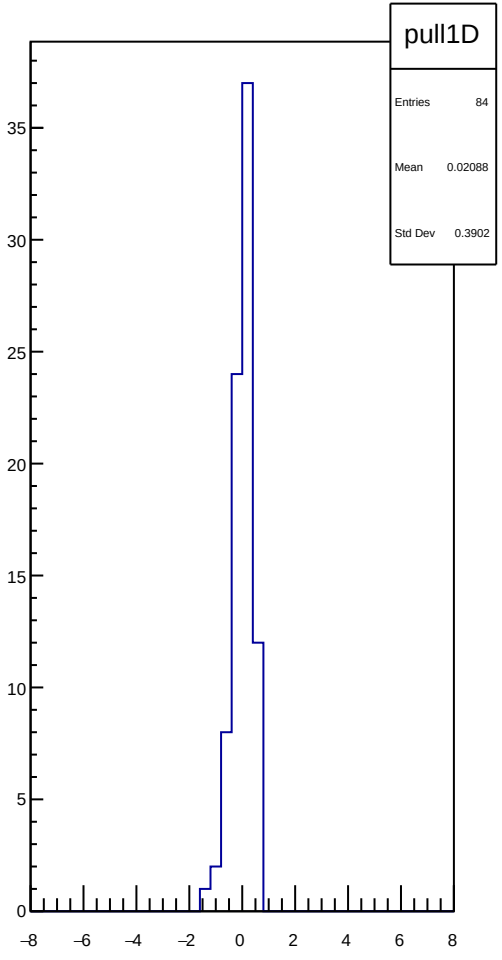

pull1D
Entries 84
Mean 0.01153
Std Dev 0.3884

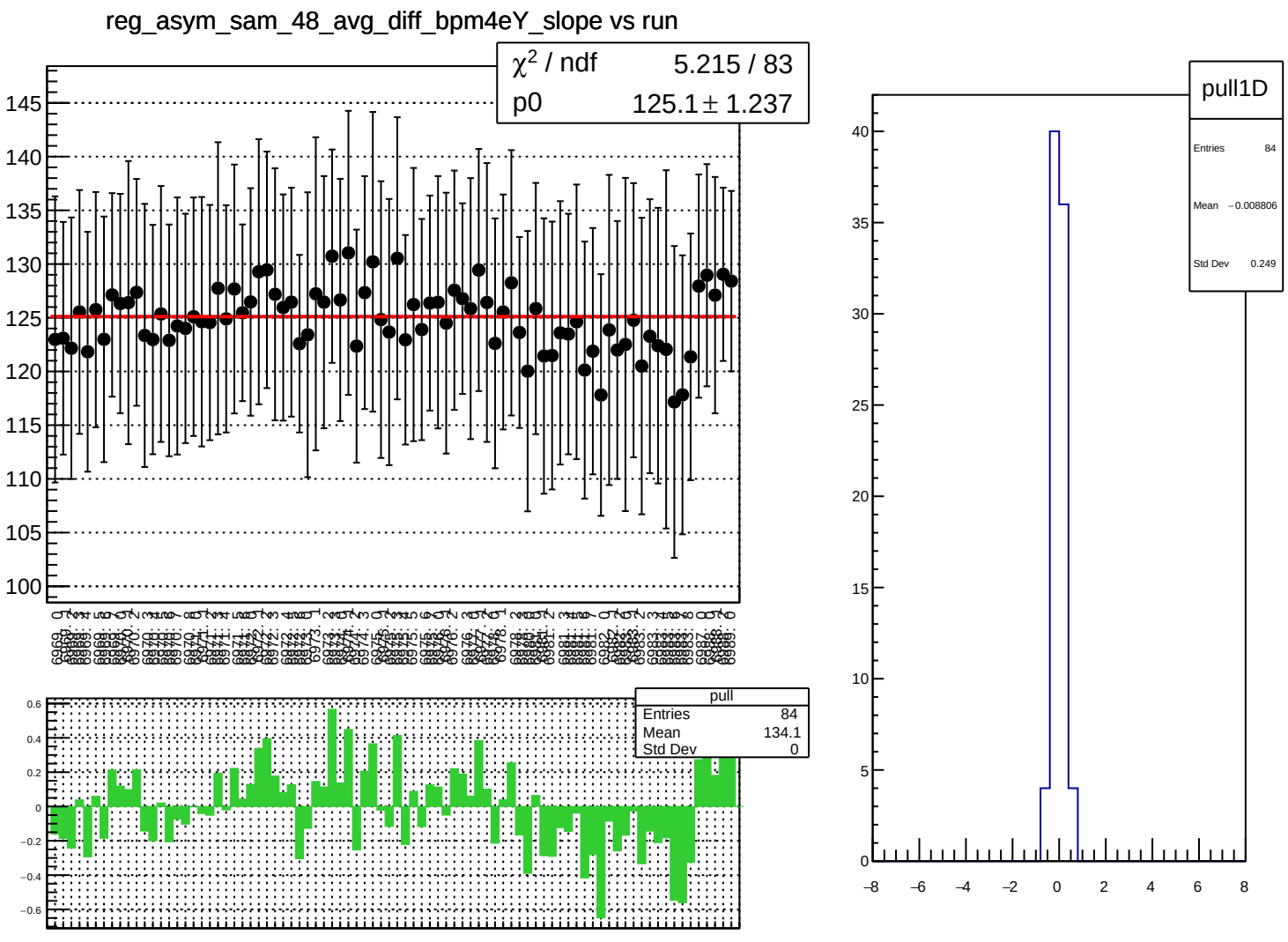

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 11.23 / 83
p0 −19.81 ± 1.539
pull
Entries 84
Mean 166.9
Std Dev 0
pull1D
Entries 84
Mean −0.02172
Std Dev 0.3649

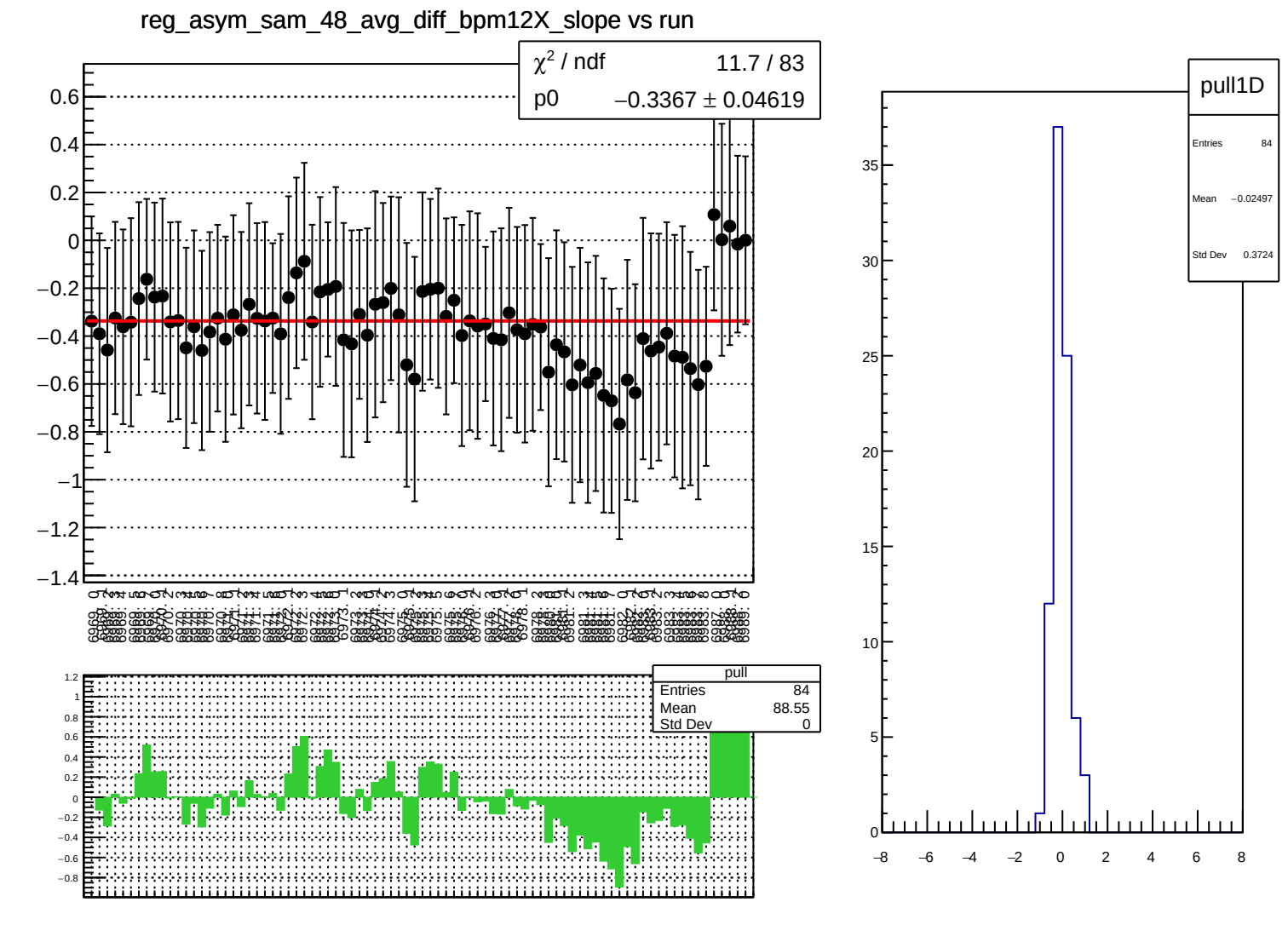

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.903 / 83
p0 −7.996 ± 1.081
pull
Entries 84
Mean −1.172
Std Dev 0

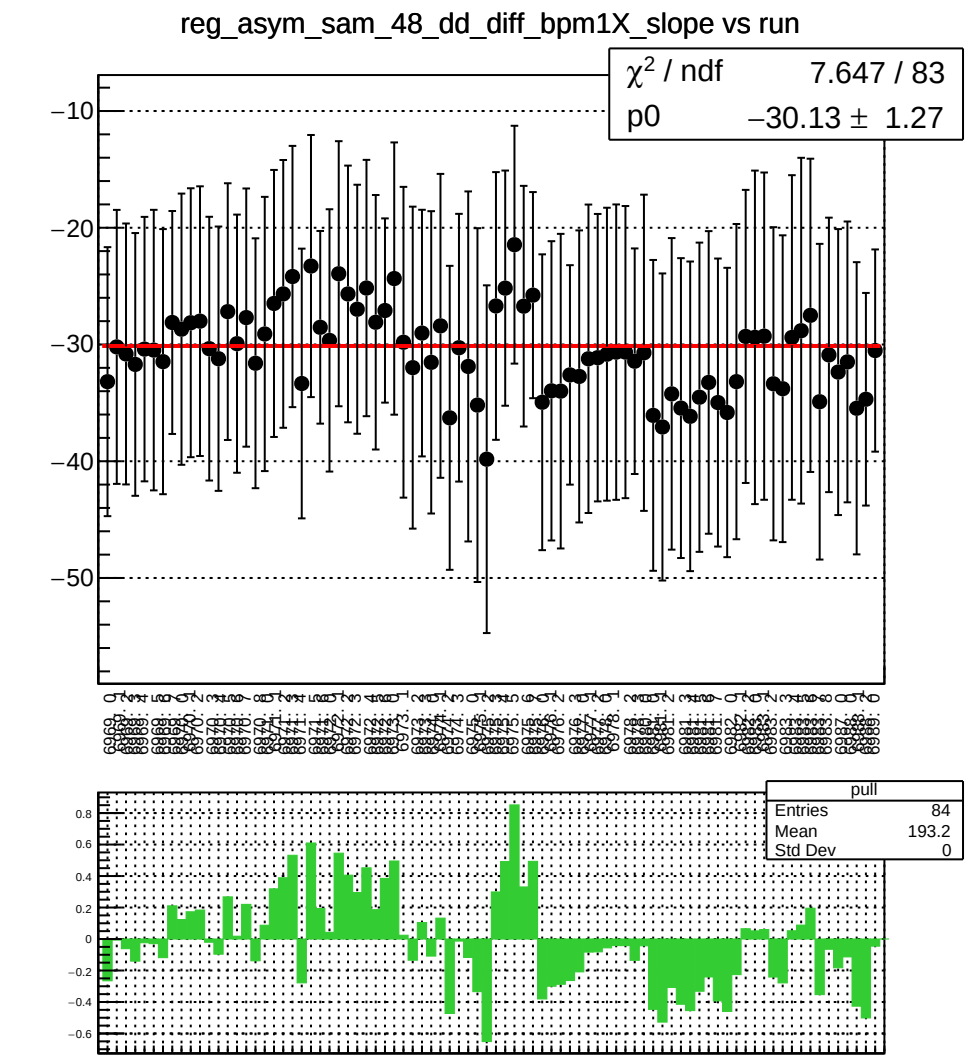

pull1D
Entries 84
Mean 0.01332
Std Dev 0.2151

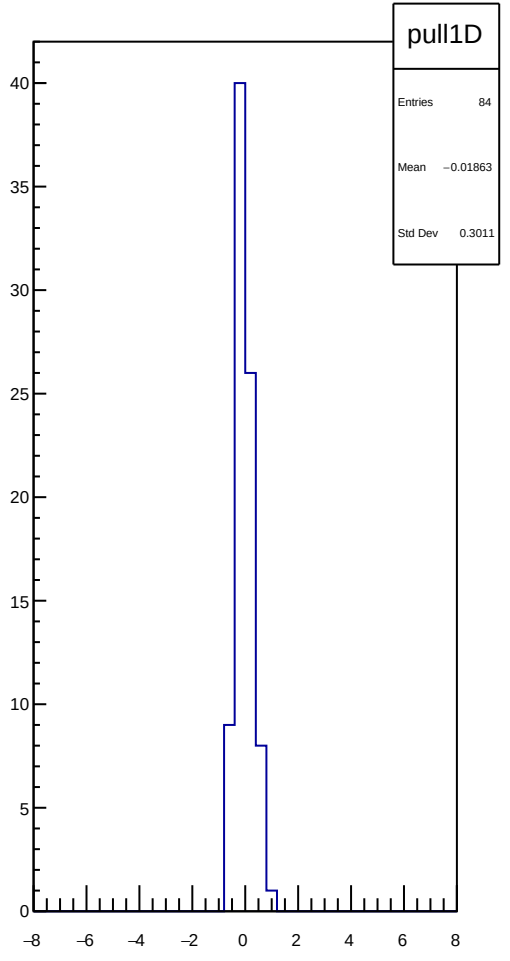

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.83 / 83
p0 −92.99 ± 1.412
pull
Entries 84
Mean 187
Std Dev 0

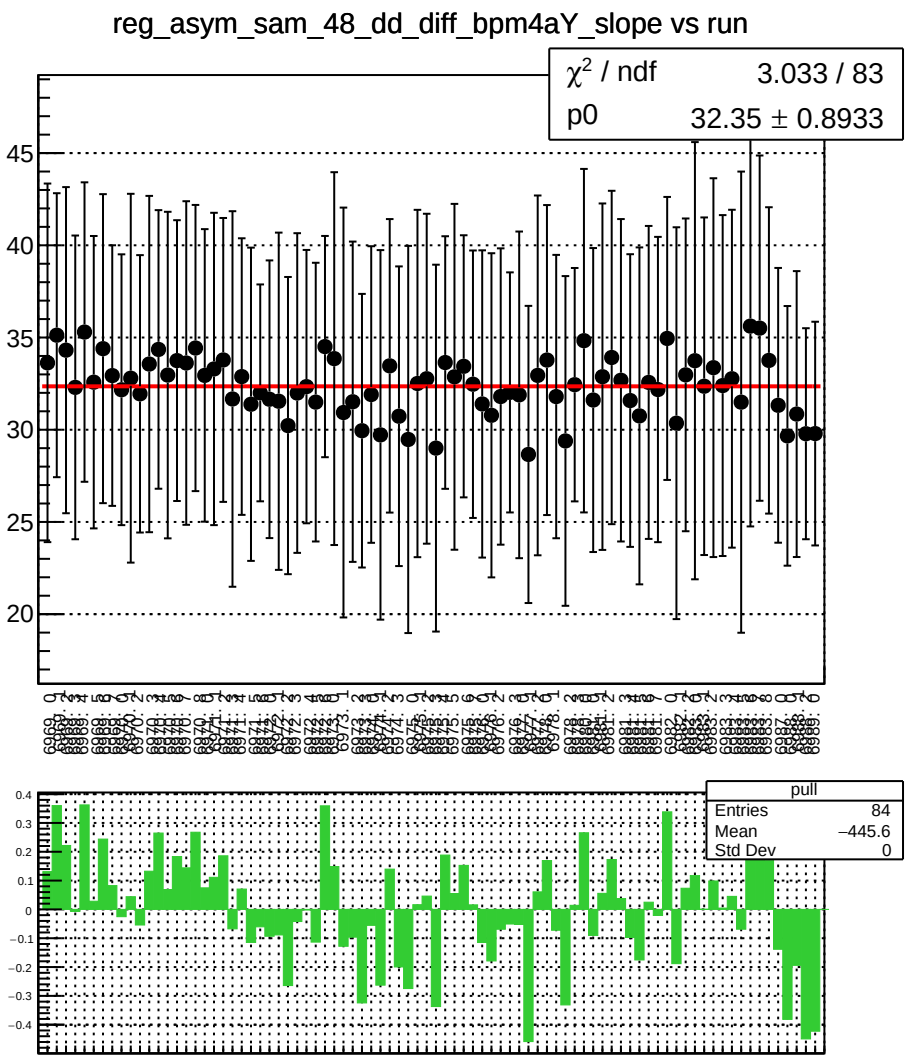

pull1D
Entries 84
Mean 0.02088
Std Dev 0.3902

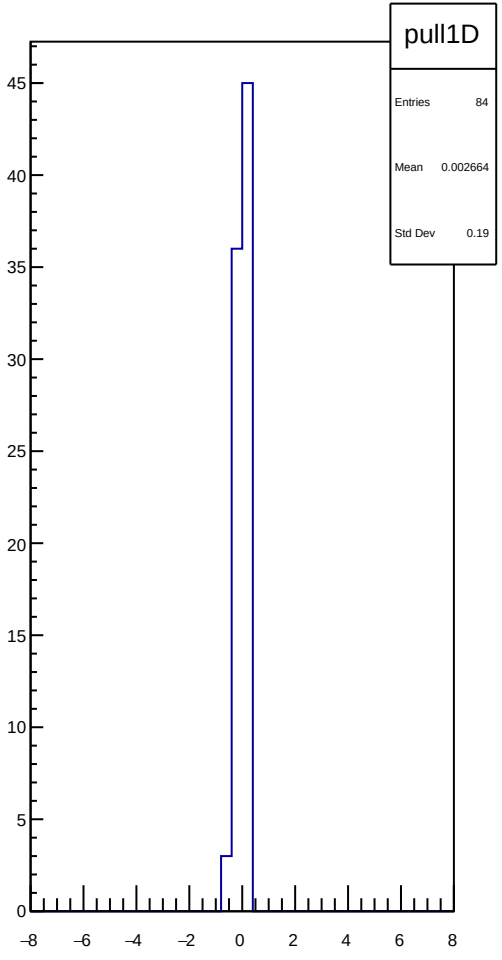

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.215 / 83
p0 125.1 ± 1.237
pull
Entries 84
Mean 134.1
Std Dev 0
pull1D
Entries 84
Mean −0.008806
Std Dev 0.249

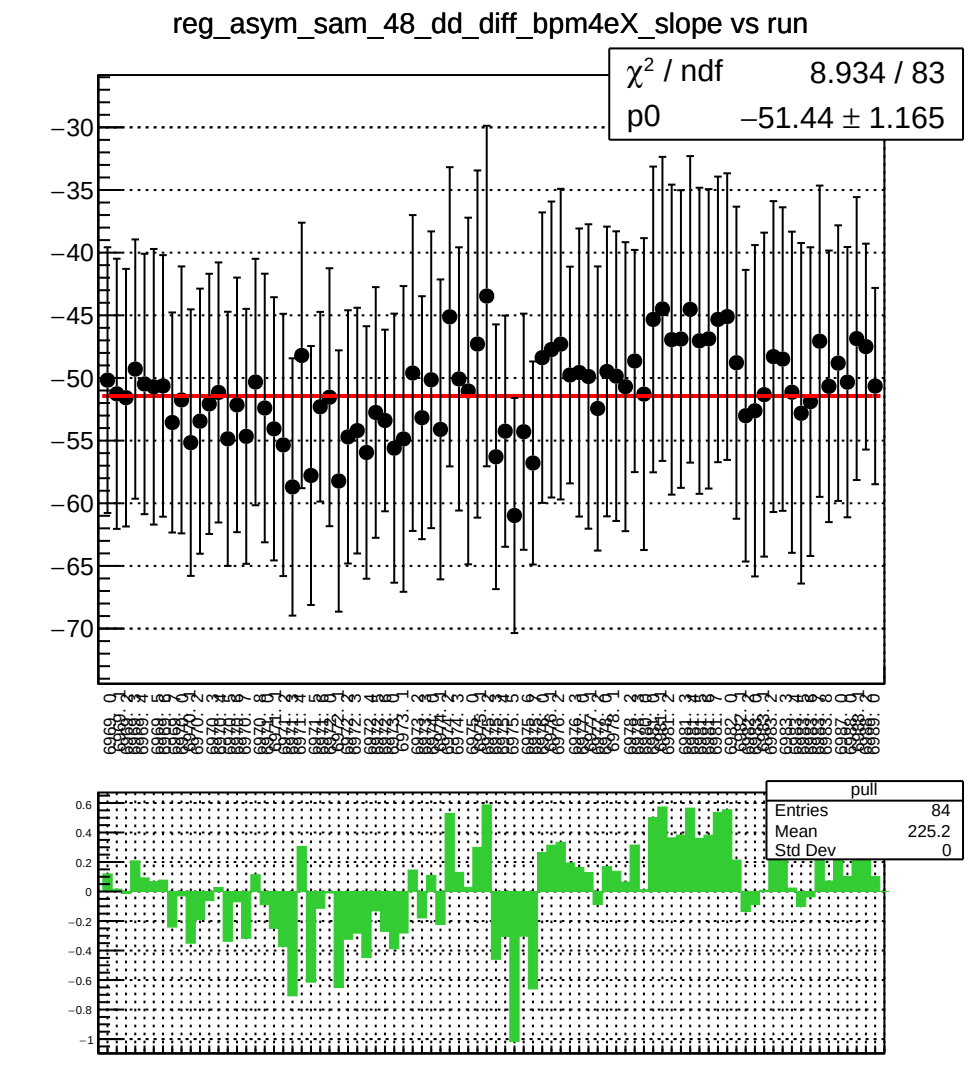

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 11.7 / 83
p0 −0.3367 ± 0.04619
pull
Entries 84
Mean 88.55
Std Dev 0
pull1D
Entries 84
Mean −0.02497
Std Dev 0.3724

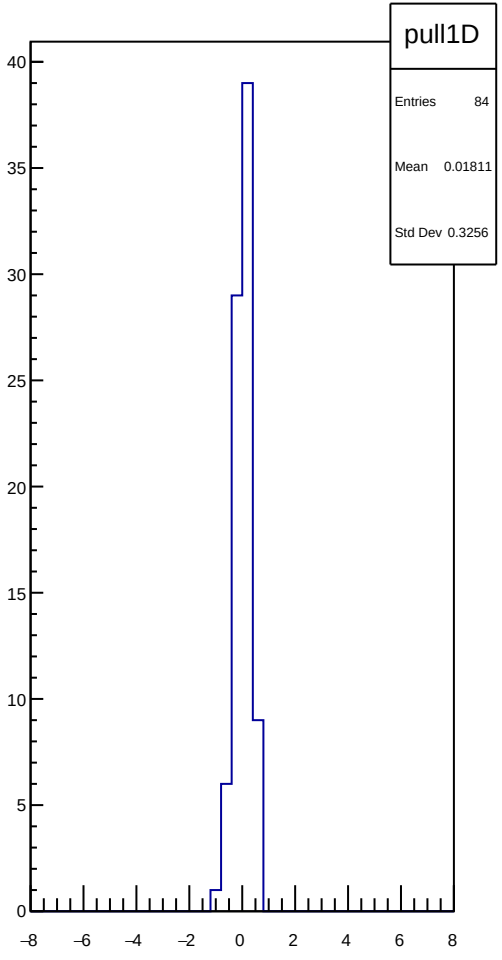

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.647 / 83
p0 −30.13 ± 1.27
−10
−20
−30
−40
−50
pull
Entries 84
Mean 193.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

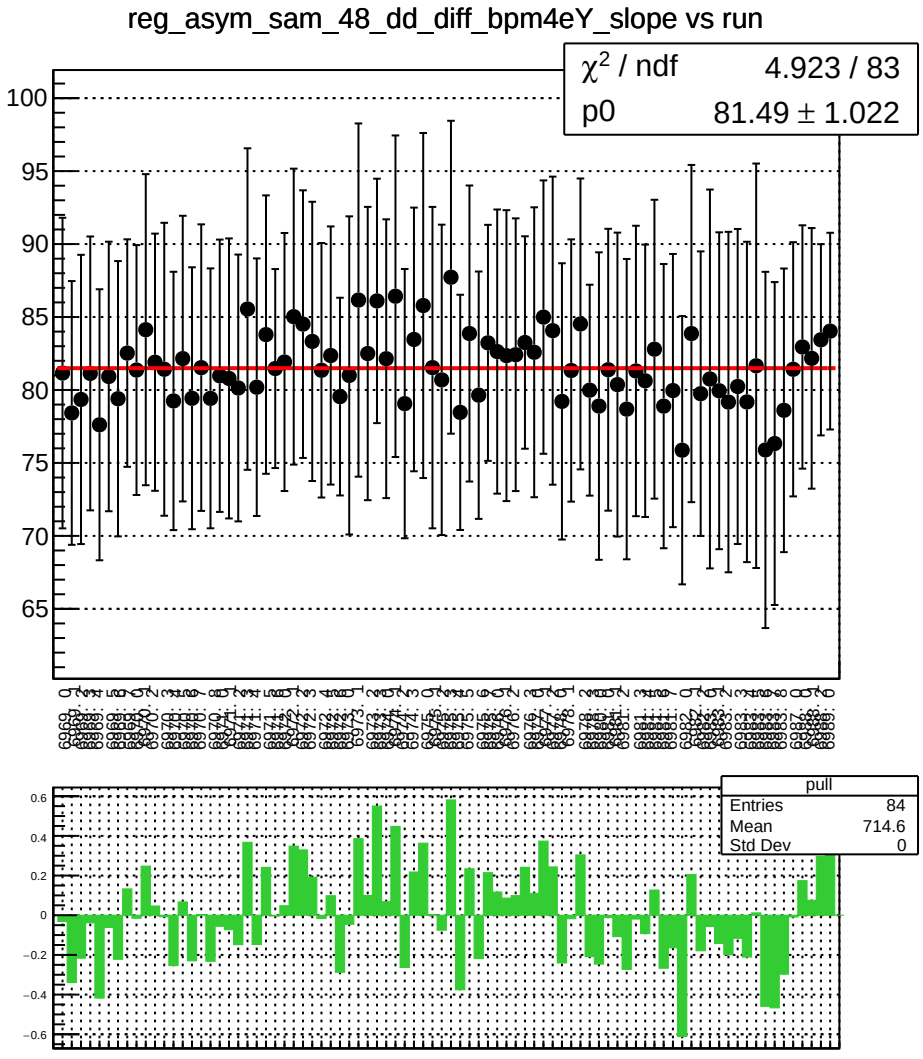

pull1D
Entries 84
Mean −0.01863
Std Dev 0.3011
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

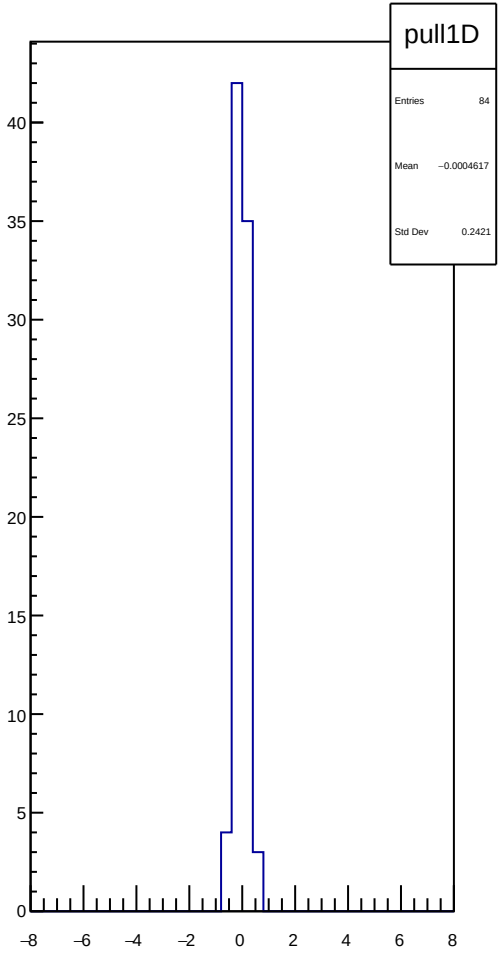

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.033 / 83
p0 32.35 ± 0.8933
pull
Entries 84
Mean −445.6
Std Dev 0

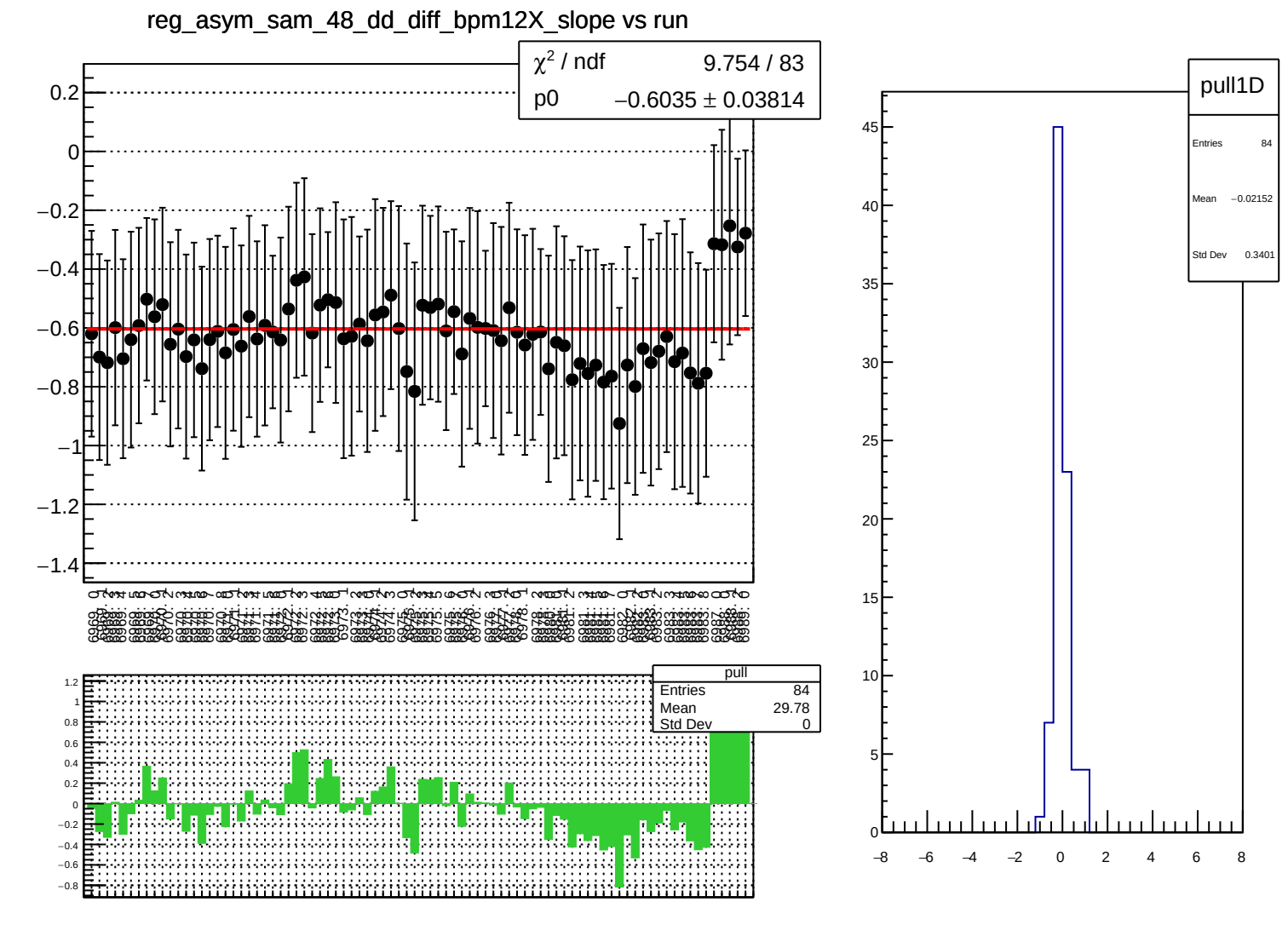

pull1D
Entries 84
Mean 0.002664
Std Dev 0.19

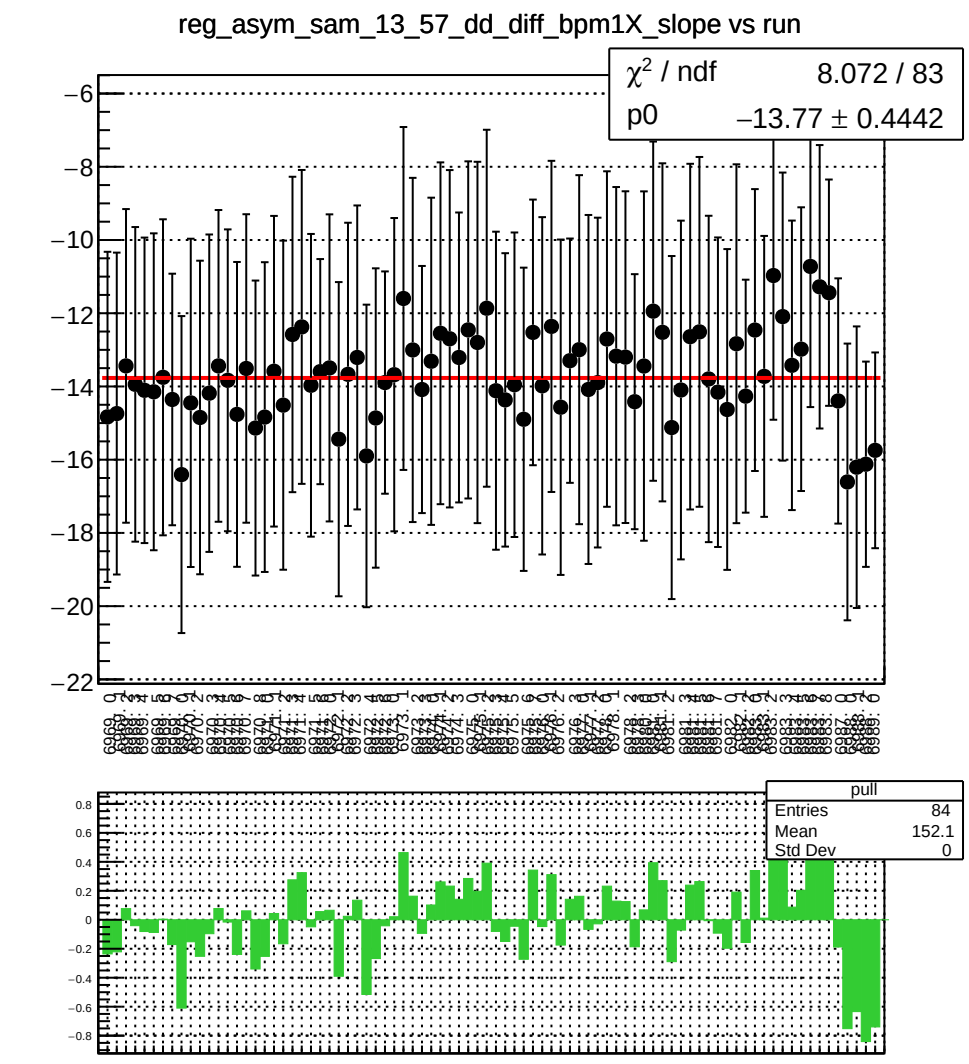

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.934 / 83
p0 −51.44 ± 1.165
pull
Entries 84
Mean 225.2
Std Dev 0

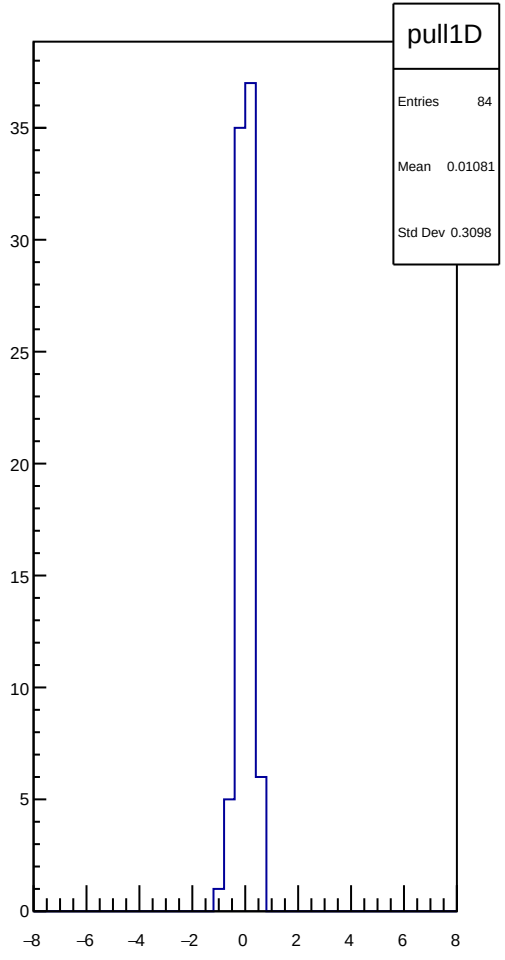

pull1D
Entries 84
Mean 0.01811
Std Dev 0.3256

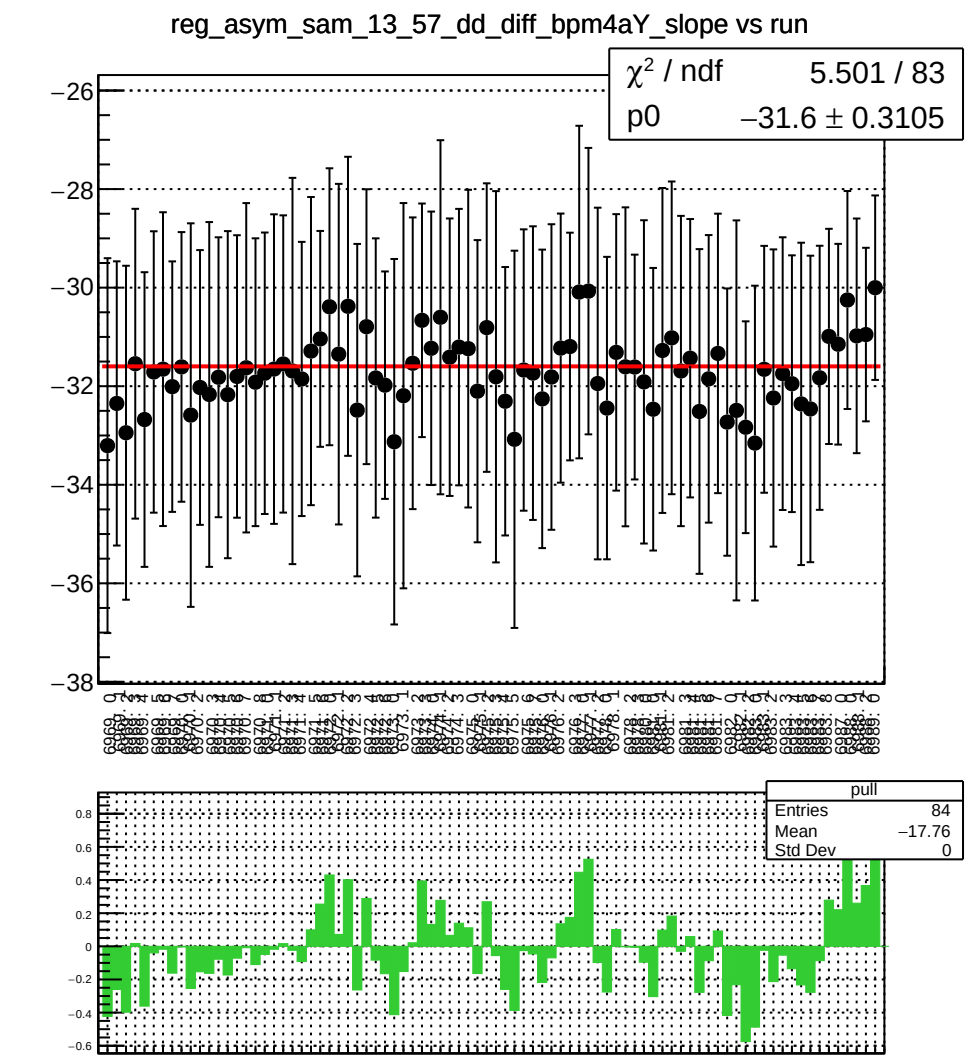

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.923 / 83
p0 81.49 ± 1.022
pull
Entries 84
Mean 714.6
Std Dev 0

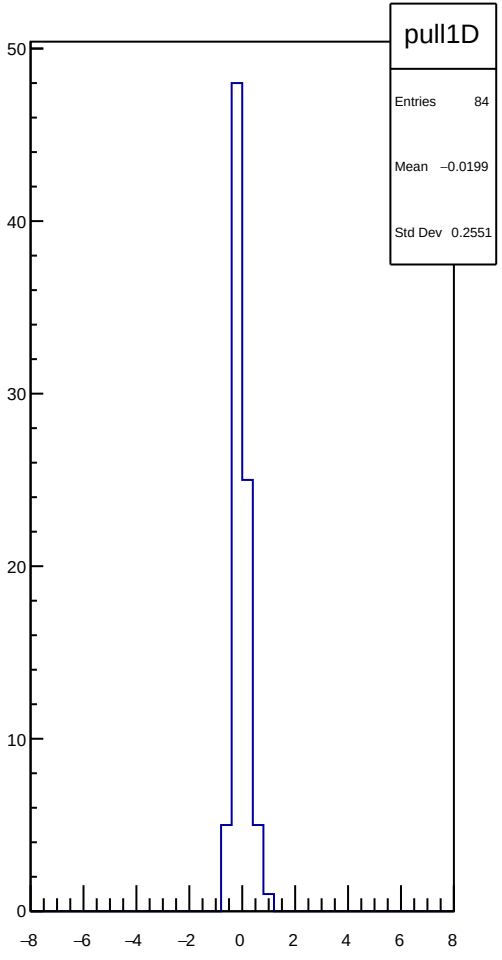

pull1D
Entries 84
Mean −0.0004617
Std Dev 0.2421

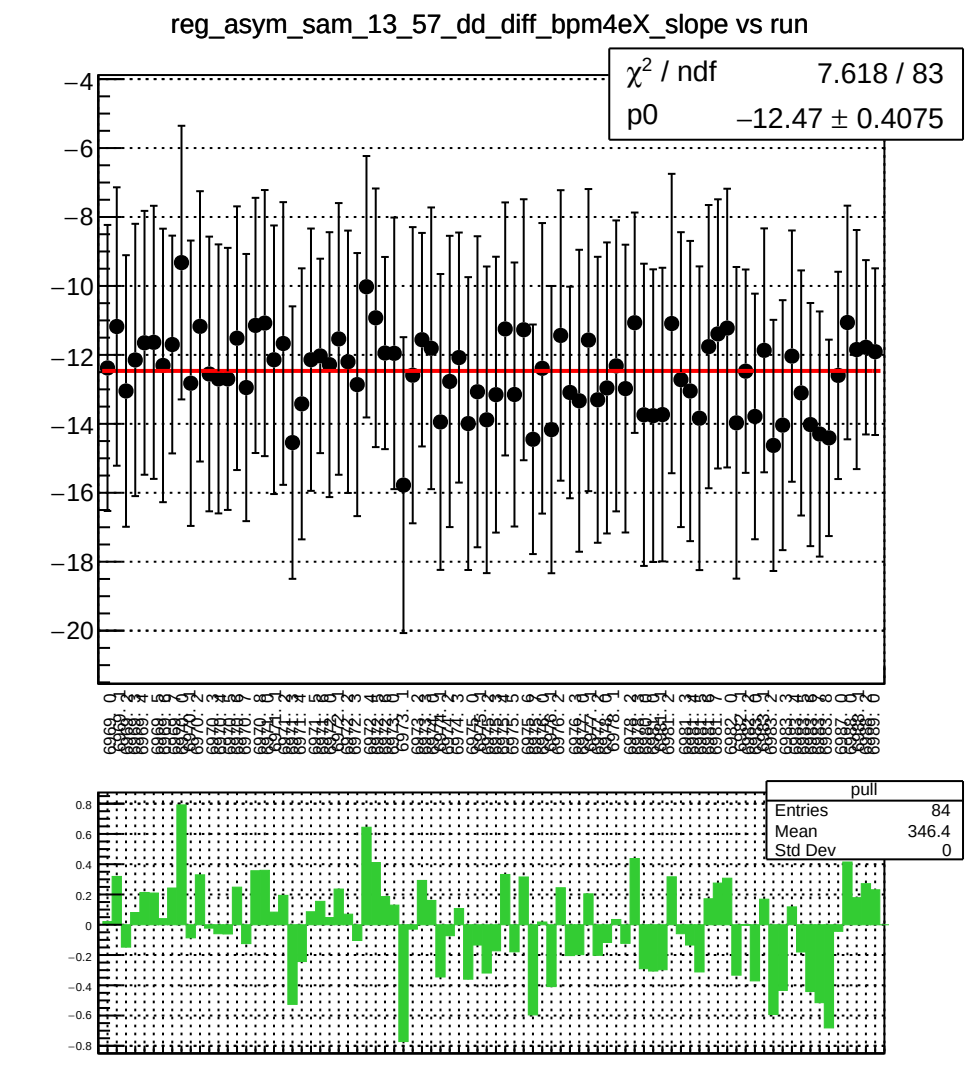

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.754 / 83
p0 −0.6035 ± 0.03814
pull
Entries 84
Mean 29.78
Std Dev 0
pull1D
Entries 84
Mean −0.02152
Std Dev 0.3401

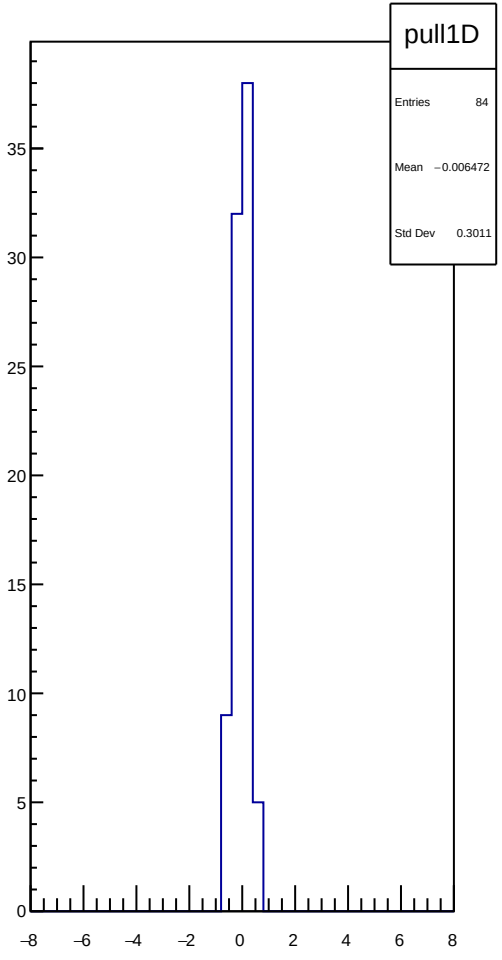

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 8.072 / 83
p0 −13.77 ± 0.4442
pull
Entries 84
Mean 152.1
Std Dev 0

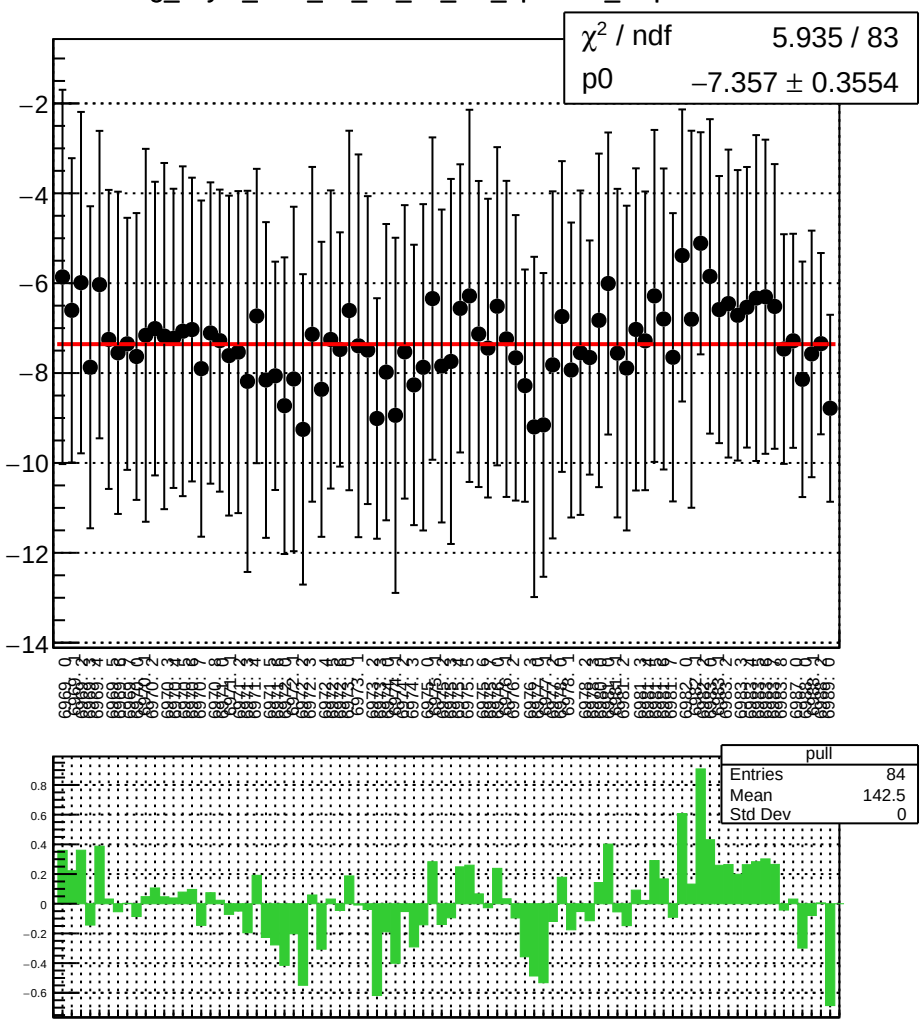

pull1D
Entries 84
Mean 0.01081
Std Dev 0.3098

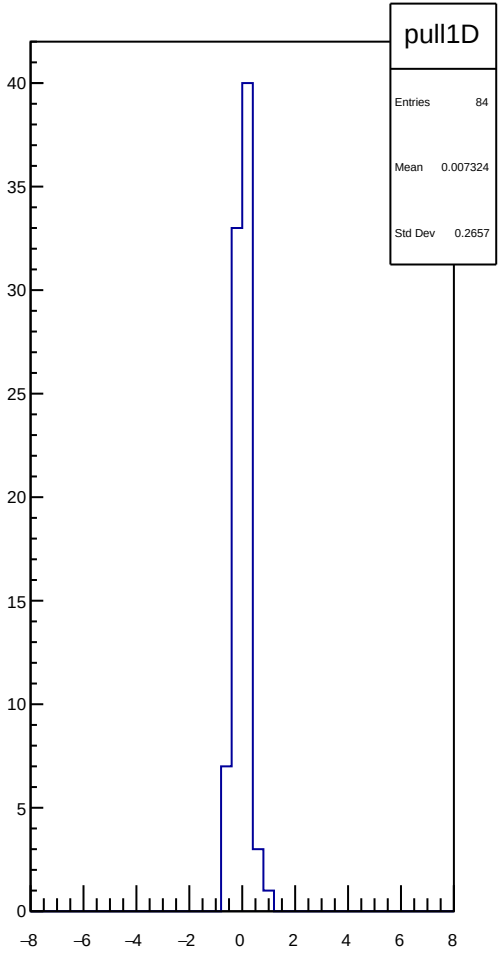

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.501 / 83
p0 −31.6 ± 0.3105
pull
Entries 84
Mean −17.76
Std Dev 0

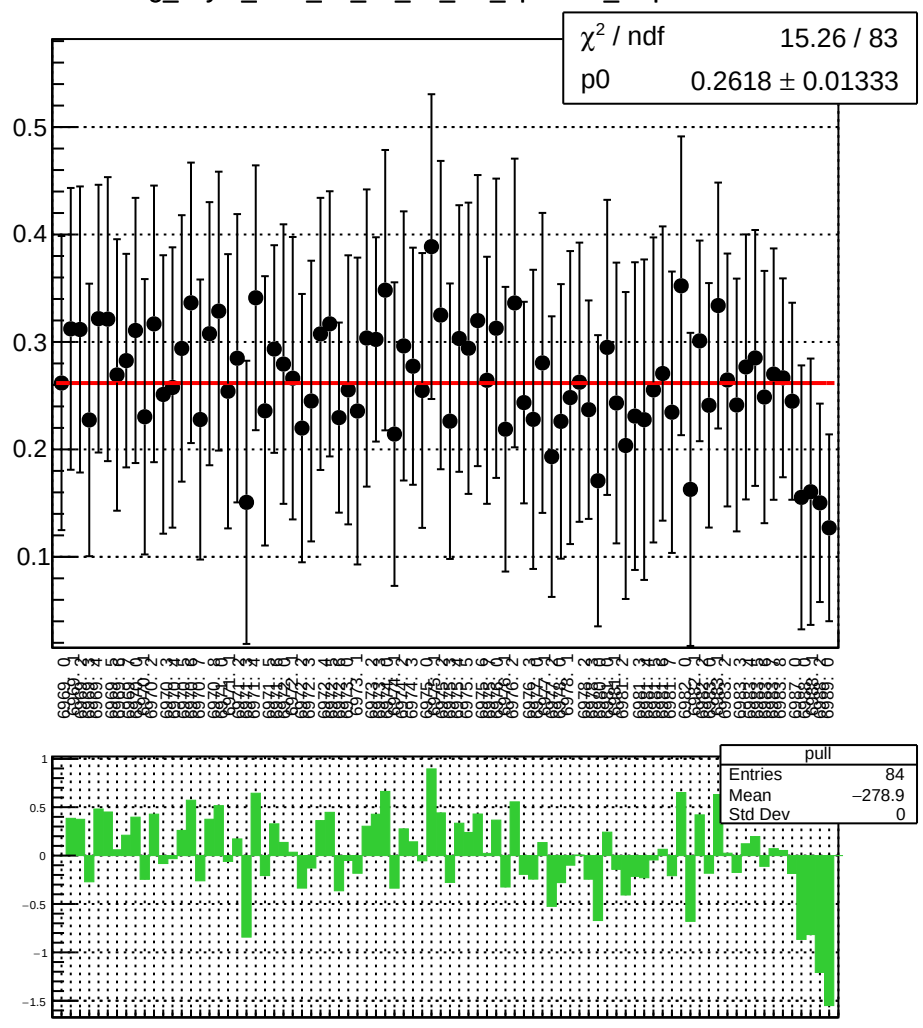

pull1D
Entries 84
Mean −0.0199
Std Dev 0.2551

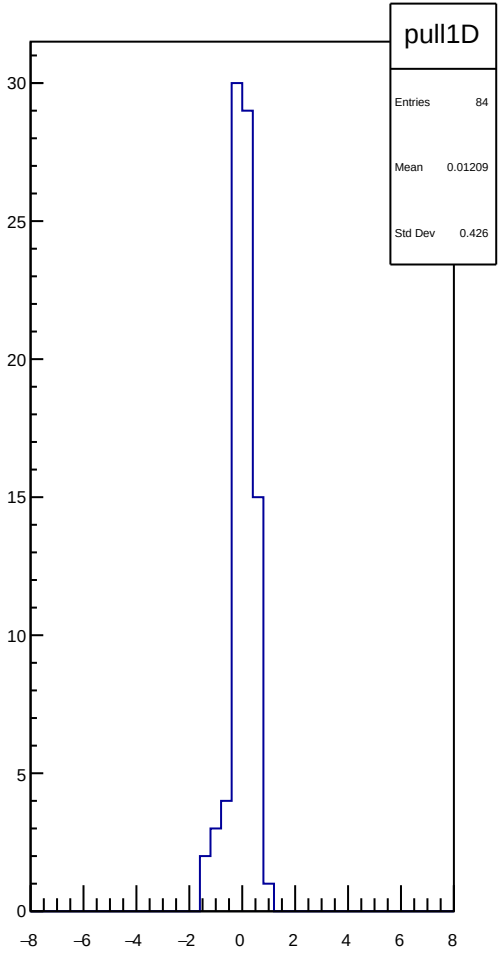

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.618 / 83
p0 −12.47 ± 0.4075
pull
Entries 84
Mean 346.4
Std Dev 0

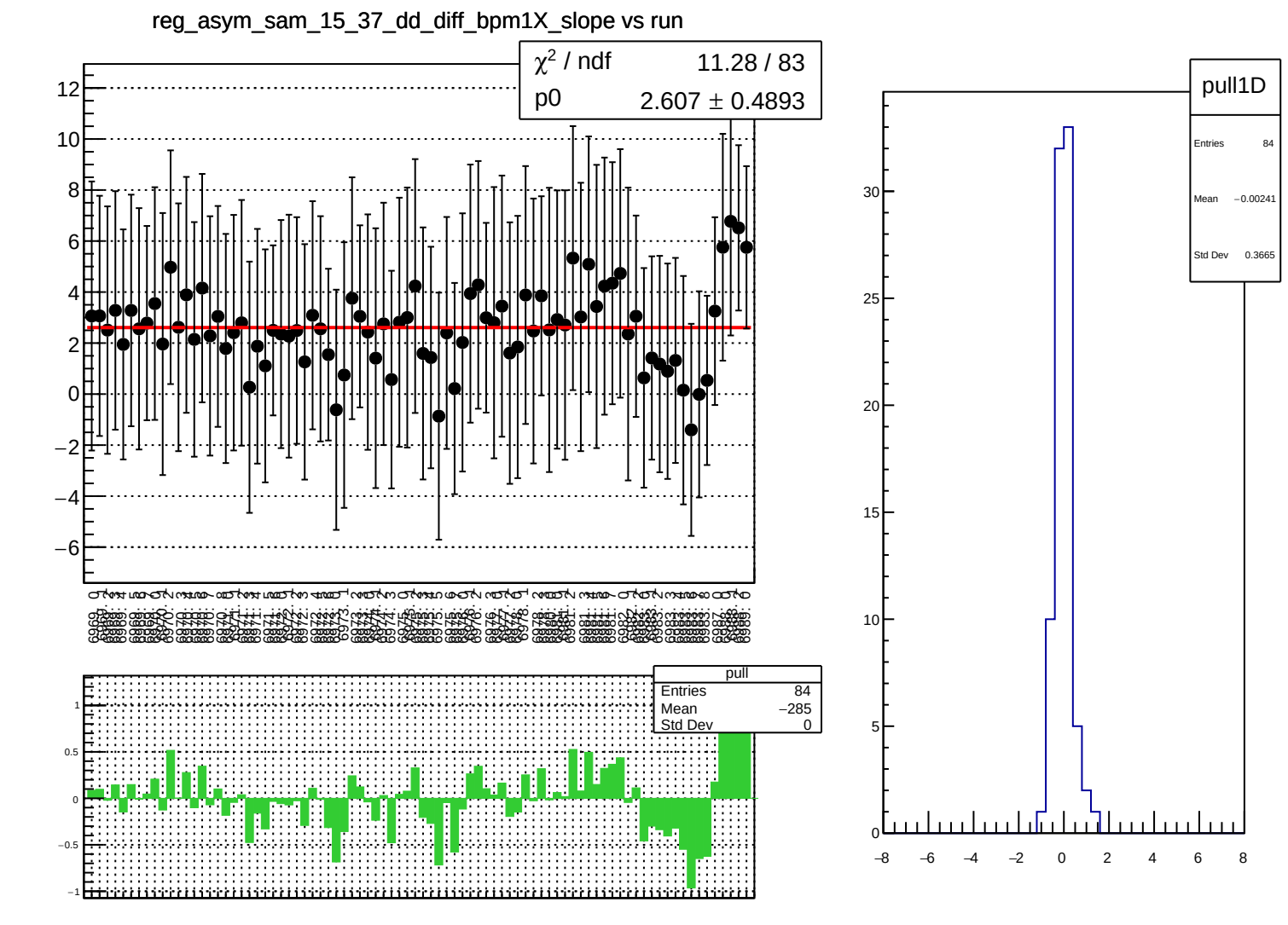

pull1D
Entries 84
Mean −0.006472
Std Dev 0.3011

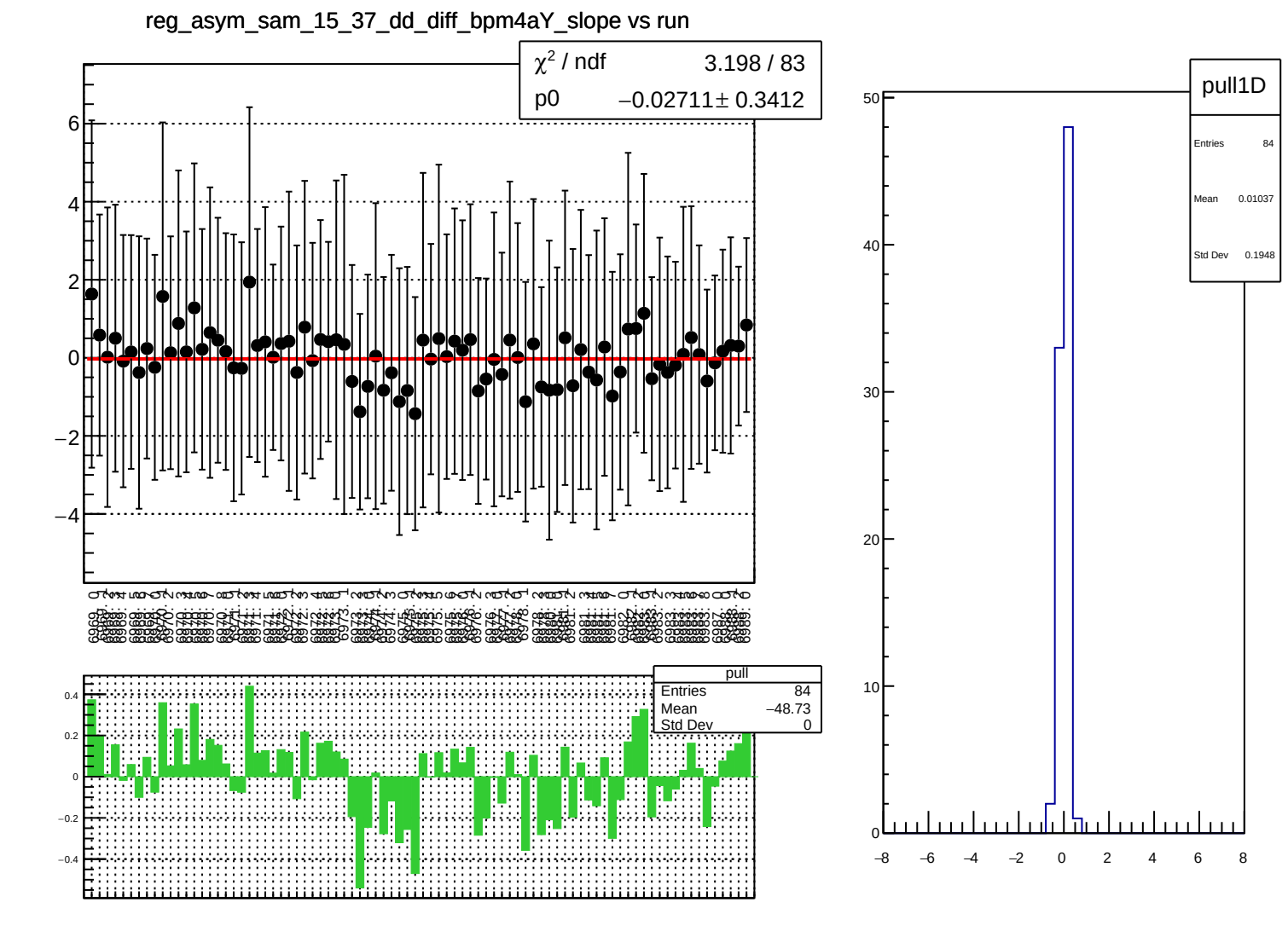

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.935 / 83
p0 −7.357 ± 0.3554
pull
Entries 84
Mean 142.5
Std Dev 0

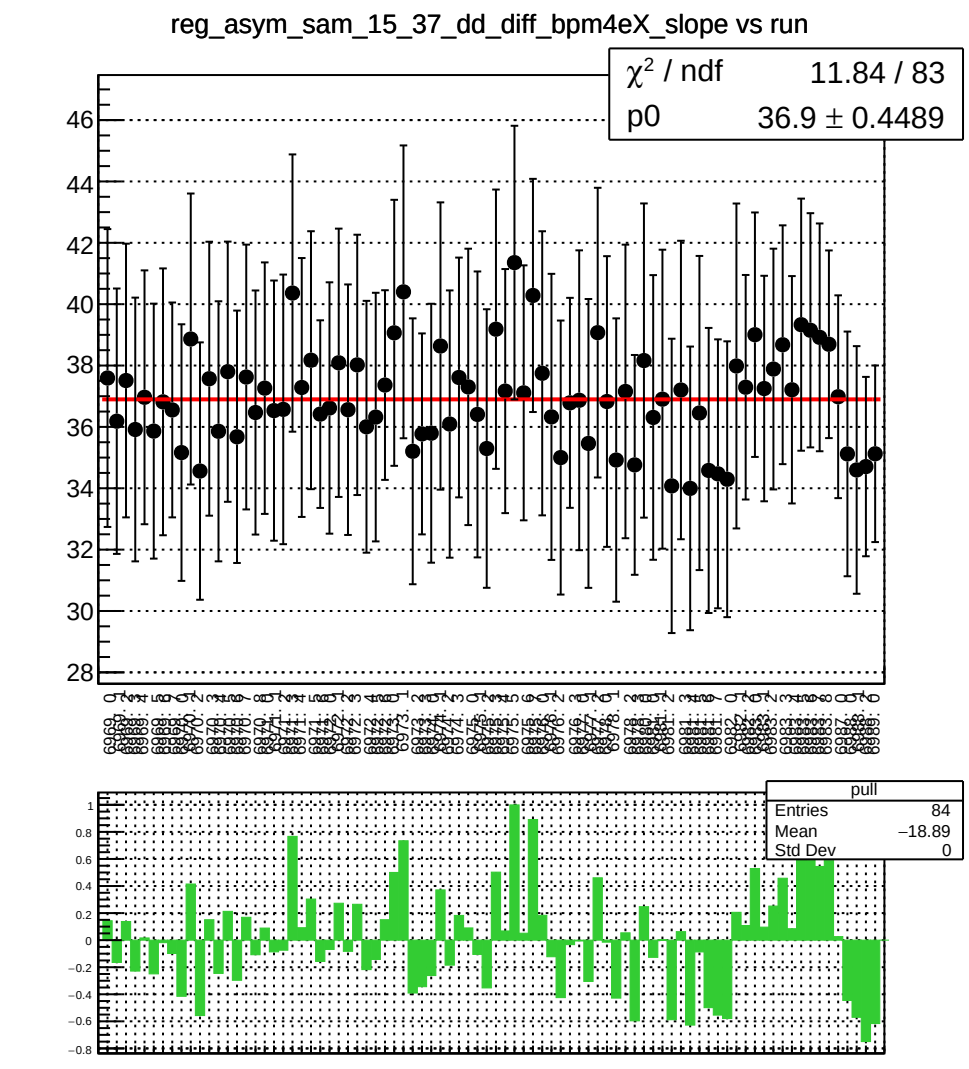

pull1D
Entries 84
Mean 0.007324
Std Dev 0.2657

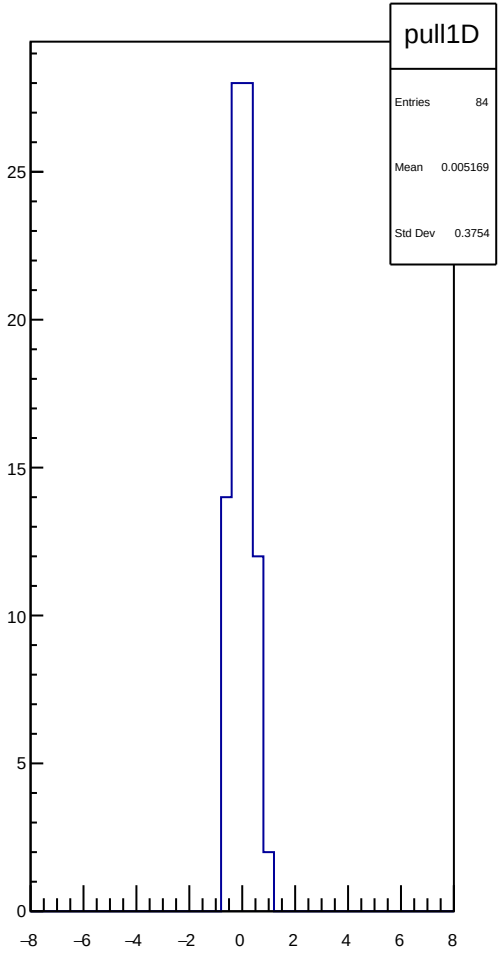

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 15.26 / 83
p0 0.2618 ± 0.01333
pull
Entries 84
Mean −278.9
Std Dev 0

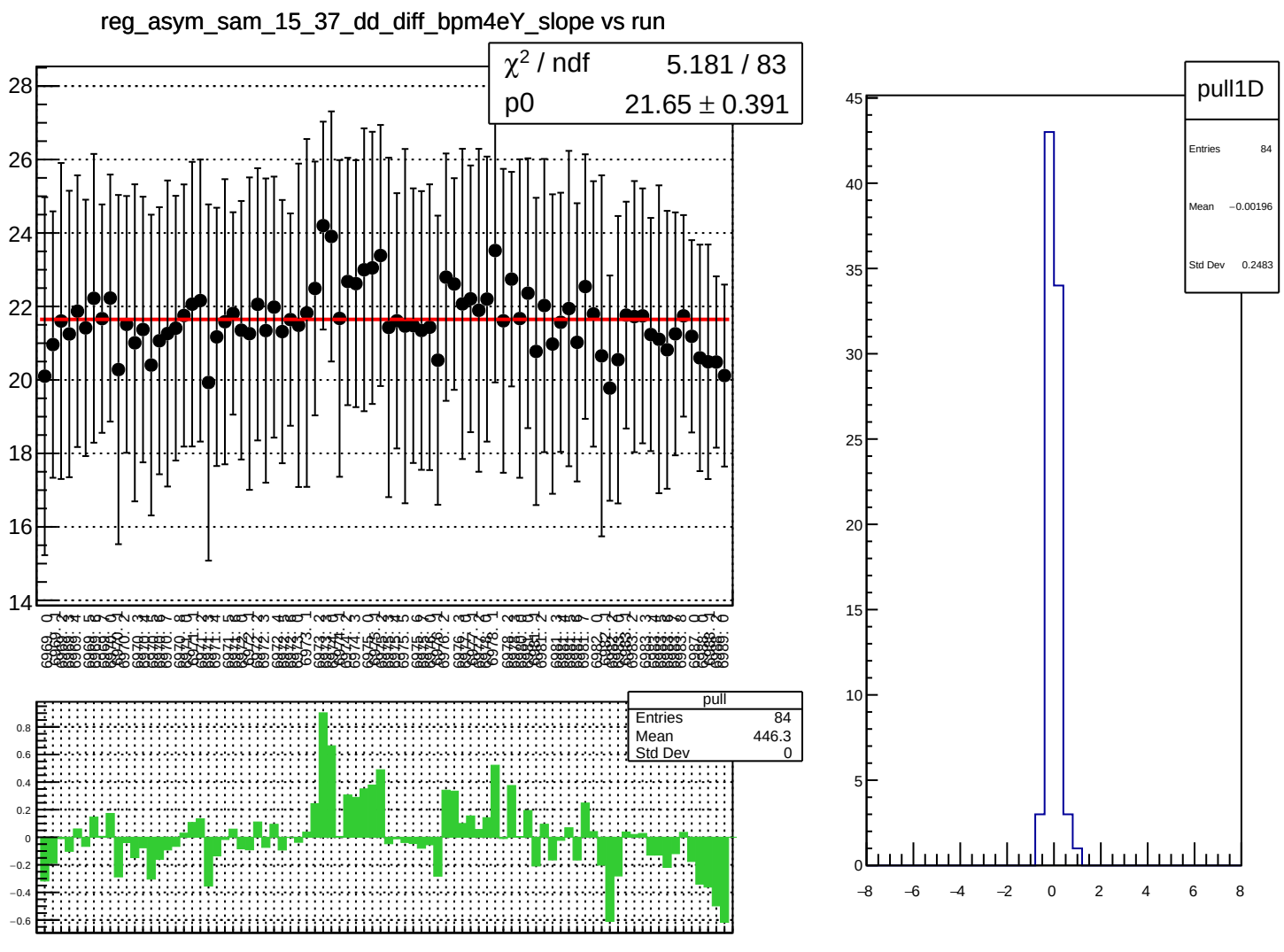

pull1D
Entries 84
Mean 0.01209
Std Dev 0.426

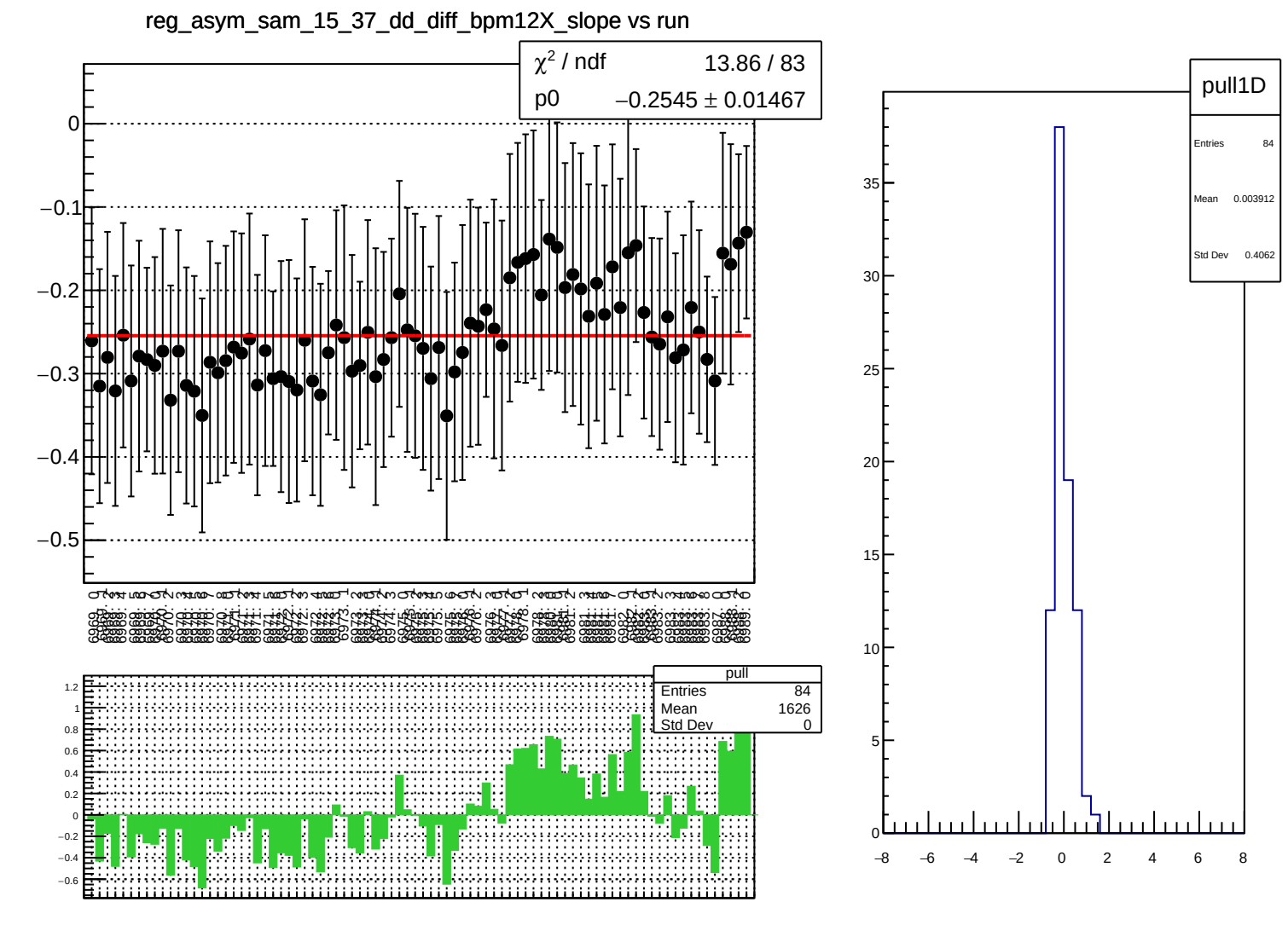

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 11.28 / 83
p0 2.607 ± 0.4893
pull
Entries 84
Mean −285
Std Dev 0
pull1D
Entries 84
Mean −0.00241
Std Dev 0.3665

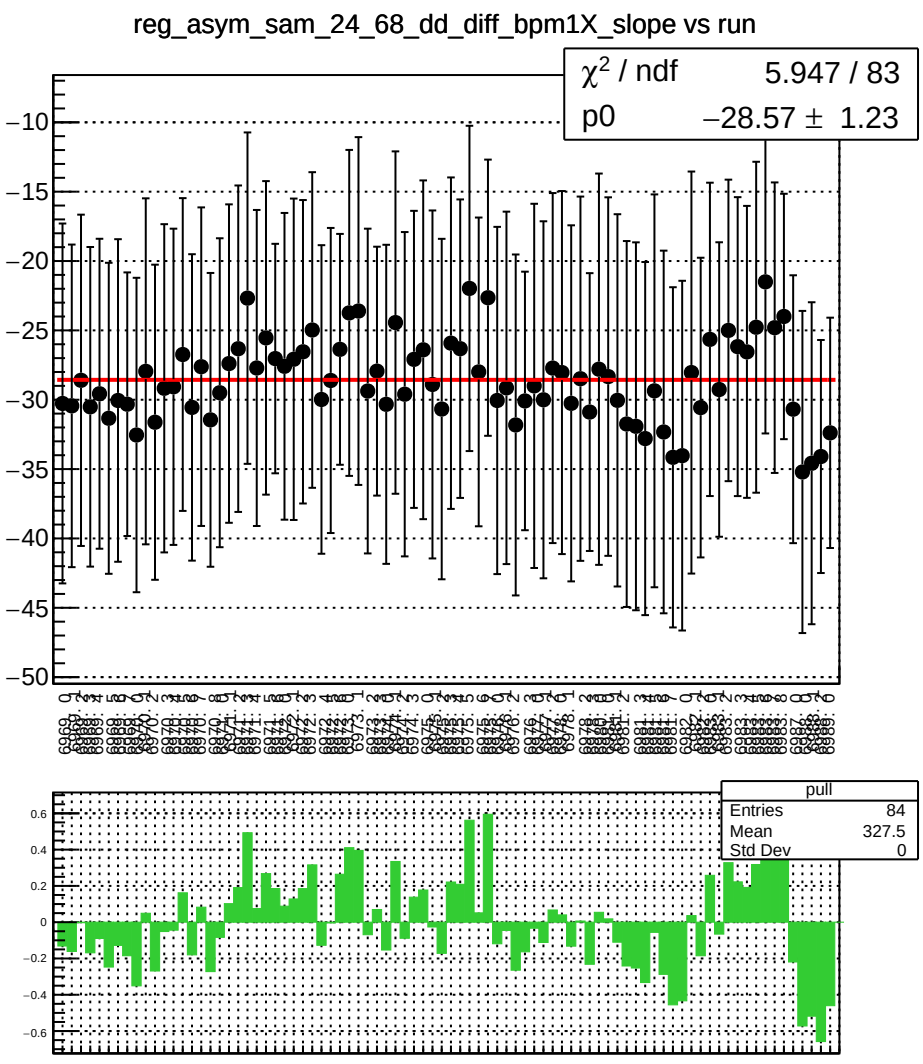

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.198 / 83
p0 −0.02711 ± 0.3412
pull
Entries 84
Mean −48.73
Std Dev 0
pull1D
Entries 84
Mean 0.01037
Std Dev 0.1948

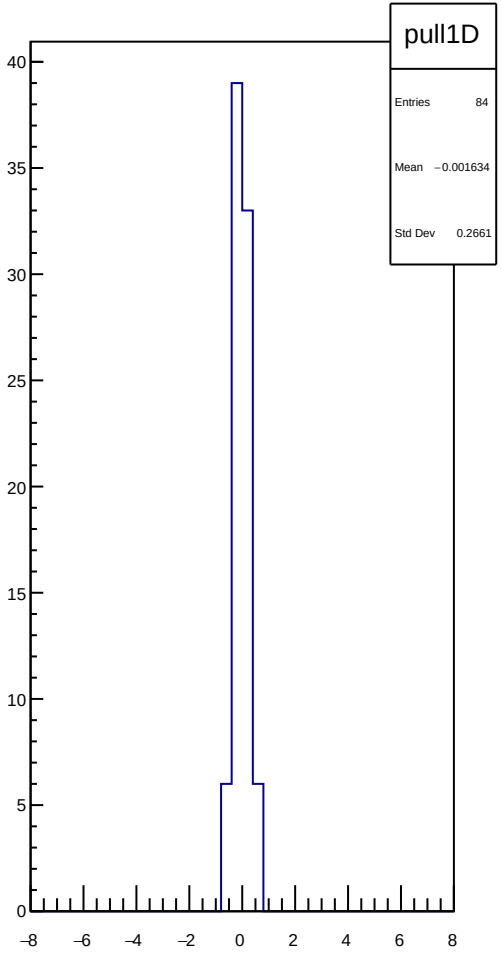

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.84 / 83
p0 36.9 ± 0.4489
pull
Entries 84
Mean −18.89
Std Dev 0

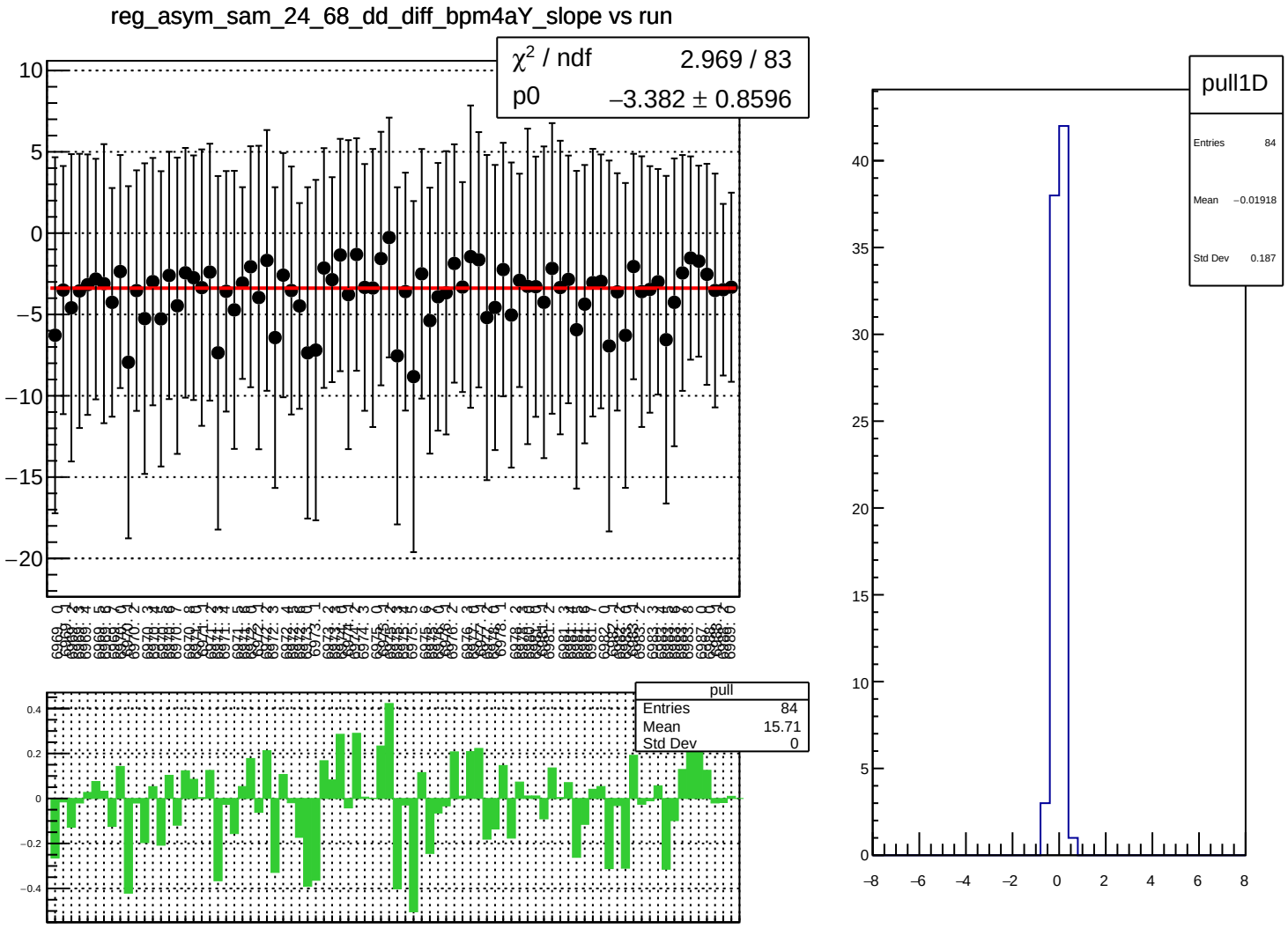

pull1D
Entries 84
Mean 0.005169
Std Dev 0.3754

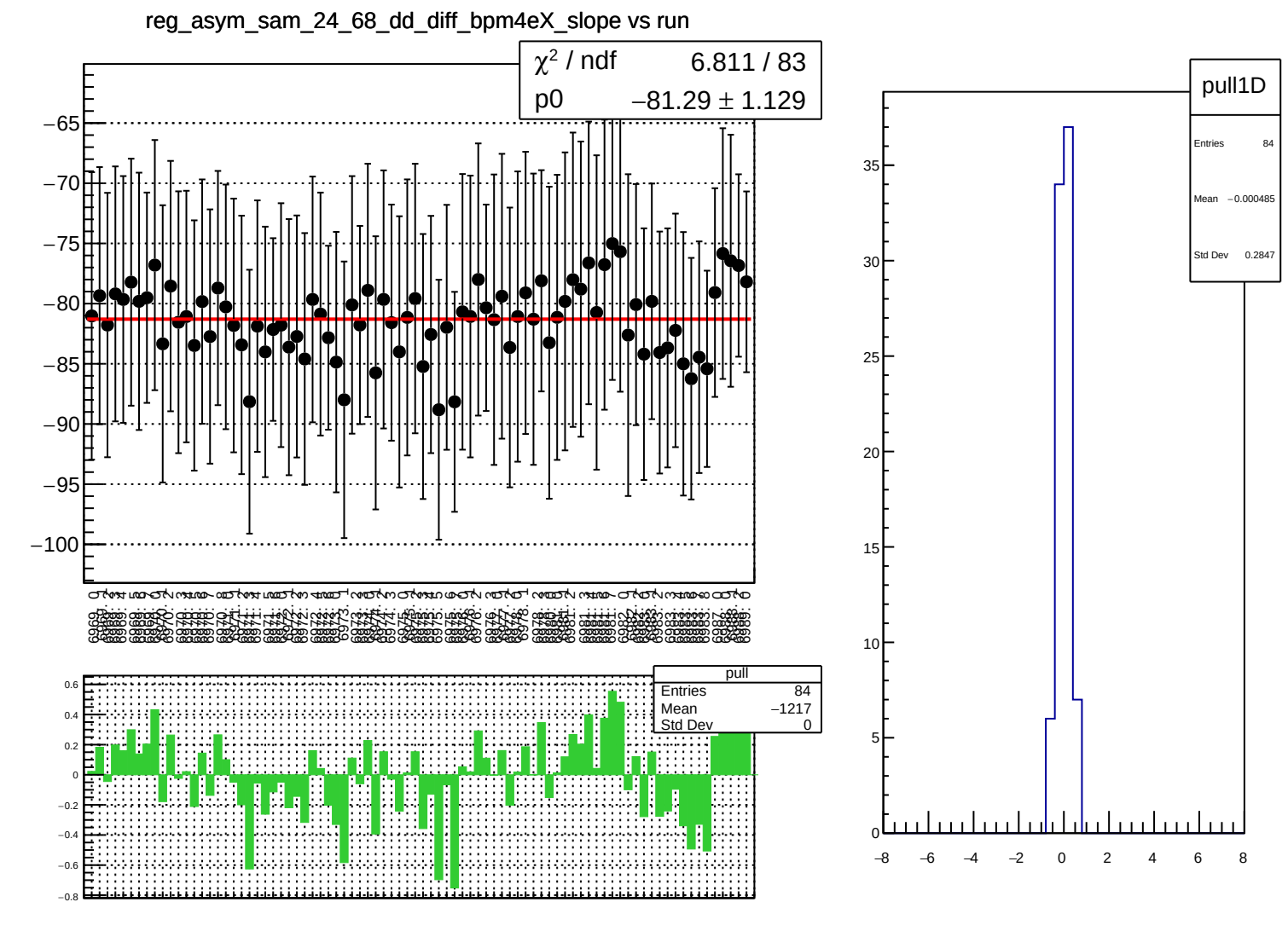

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.181 / 83
p0 21.65 ± 0.391
pull
Entries 84
Mean 446.3
Std Dev 0
pull1D
Entries 84
Mean −0.00196
Std Dev 0.2483

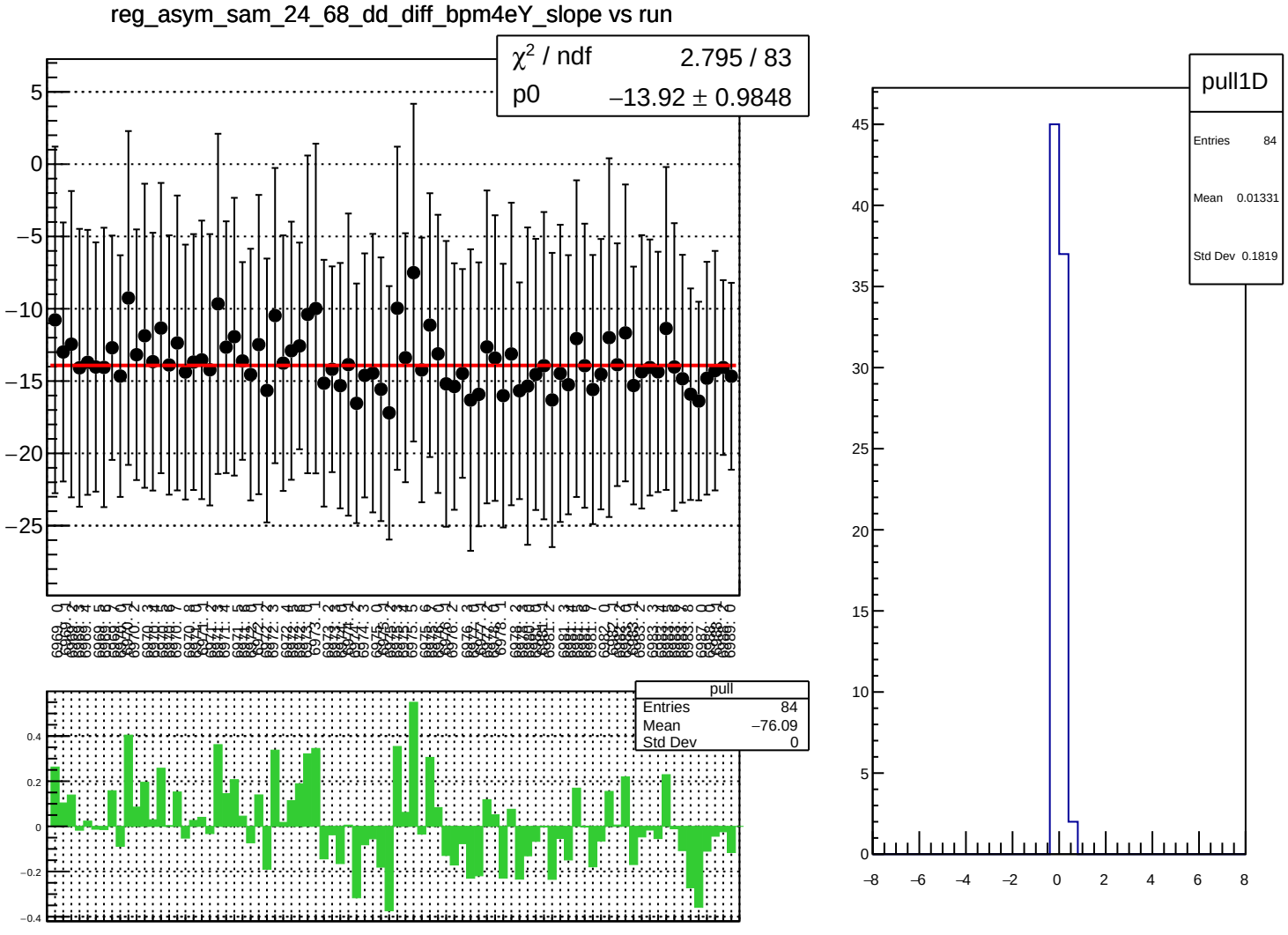

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 13.86 / 83
p0 −0.2545 ± 0.01467
pull
Entries 84
Mean 1626
Std Dev 0
pull1D
Entries 84
Mean 0.003912
Std Dev 0.4062

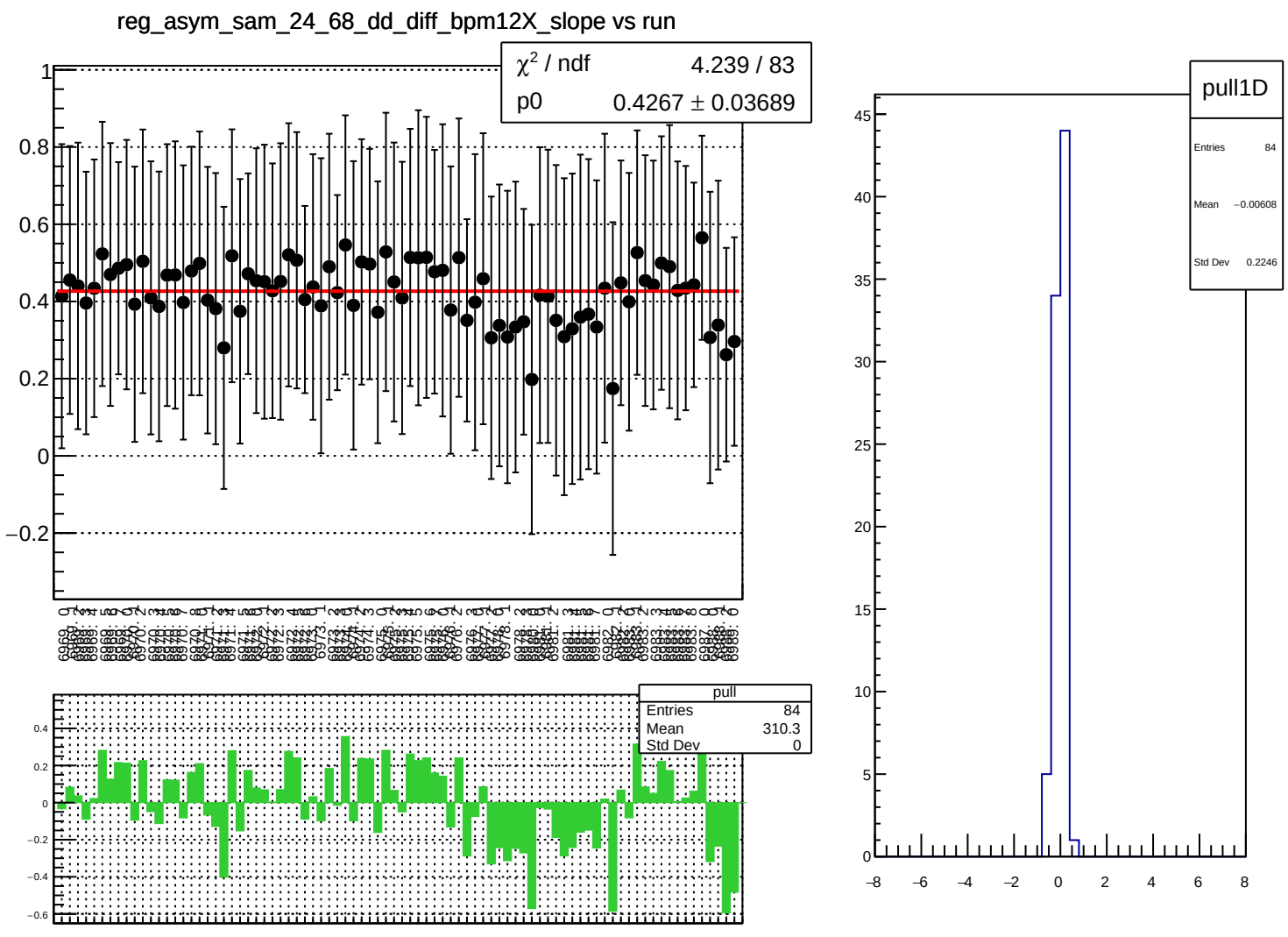

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 5.947 / 83
p0 −28.57 ± 1.23
pull
Entries 84
Mean 327.5
Std Dev 0

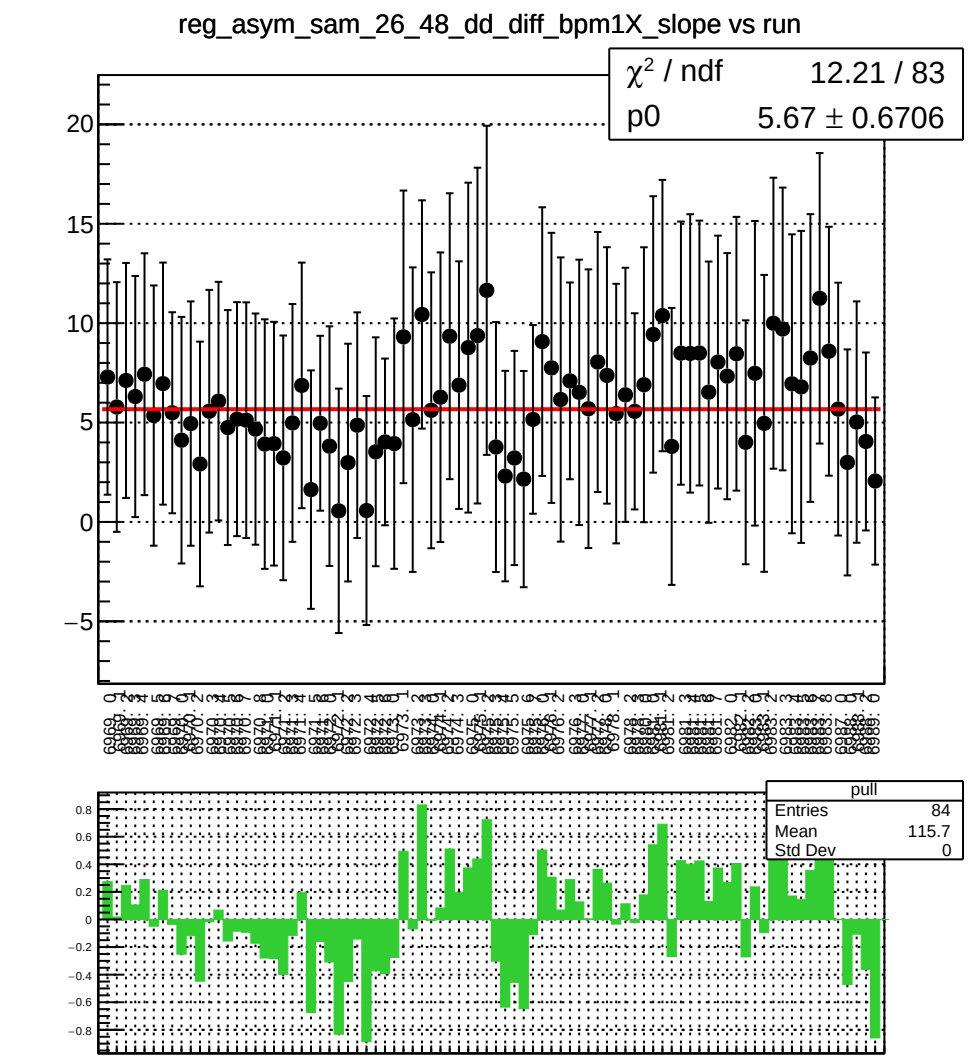

pull1D
Entries 84
Mean −0.001634
Std Dev 0.2661

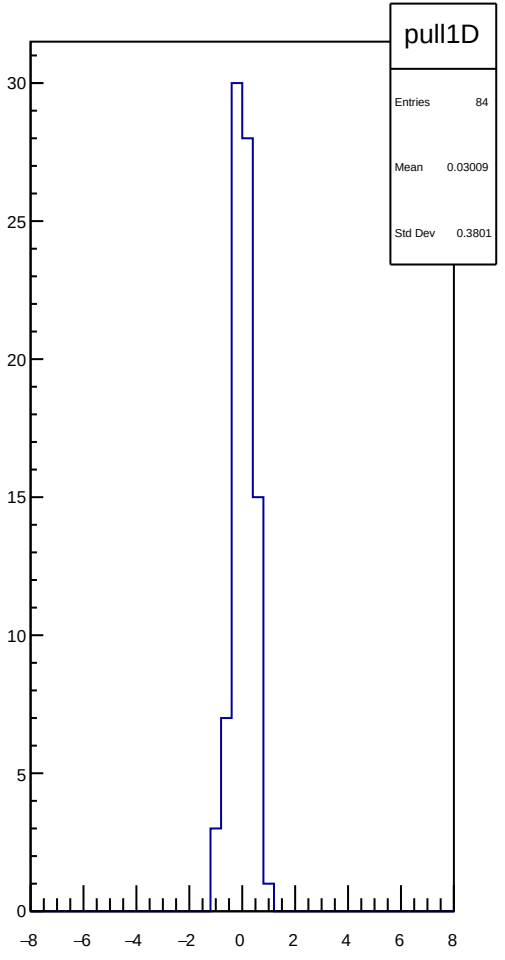

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.969 / 83
p0 −3.382 ± 0.8596
pull
Entries 84
Mean 15.71
Std Dev 0
pull1D
Entries 84
Mean −0.01918
Std Dev 0.187

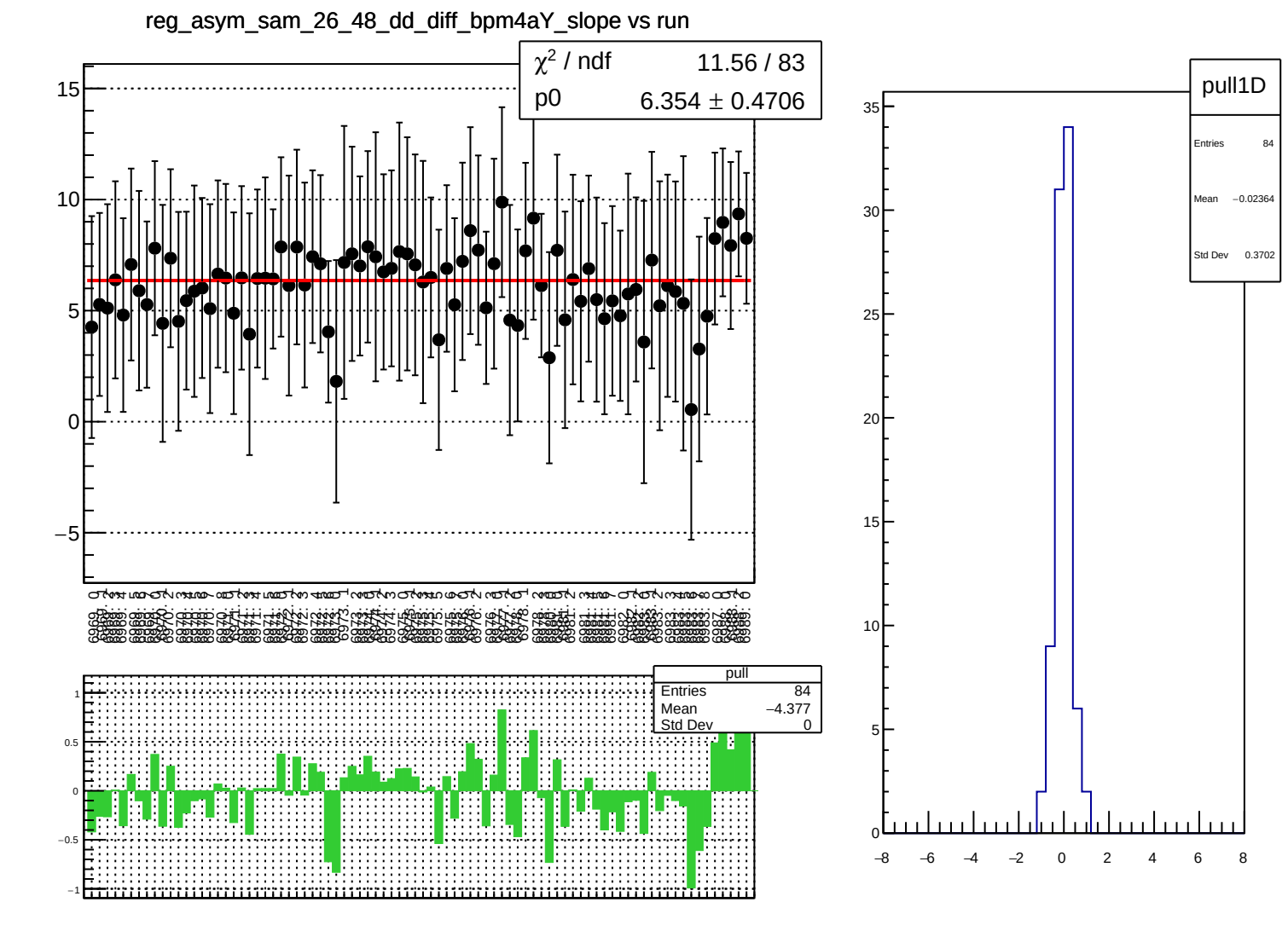

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.811 / 83
p0 −81.29 ± 1.129
pull
Entries 84
Mean −1217
Std Dev 0
pull1D
Entries 84
Mean −0.000485
Std Dev 0.2847

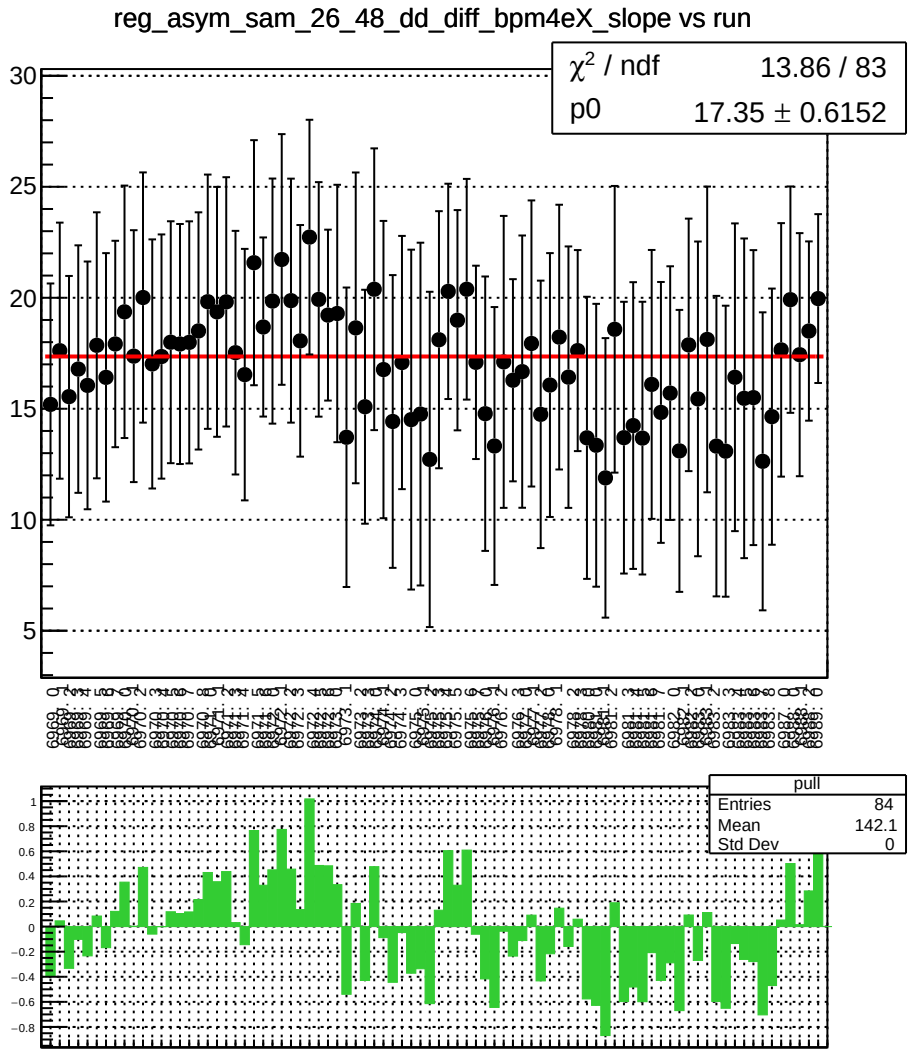

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.795 / 83
p0 −13.92 ± 0.9848
pull
Entries 84
Mean −76.09
Std Dev 0
pull1D
Entries 84
Mean 0.01331
Std Dev 0.1819

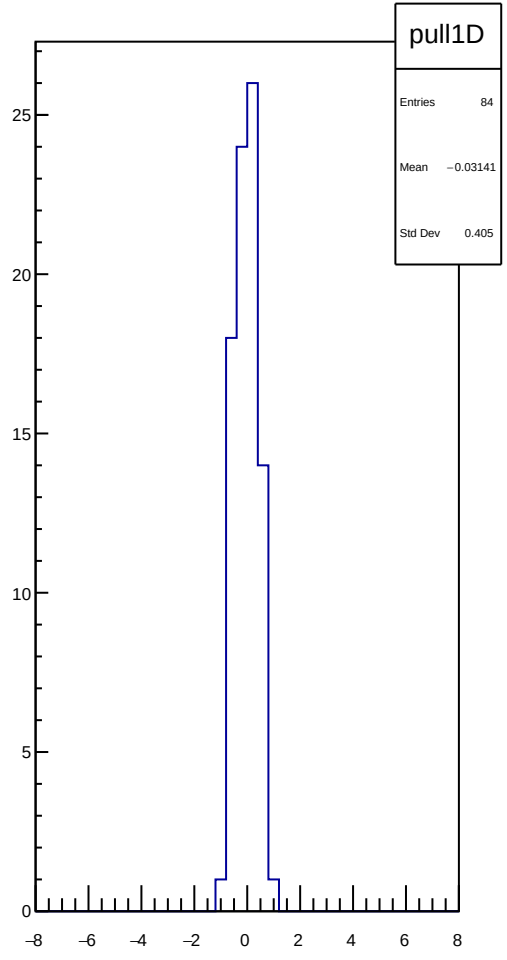

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 4.239 / 83
p0 0.4267 ± 0.03689
pull
Entries 84
Mean 310.3
Std Dev 0
pull1D
Entries 84
Mean −0.00608
Std Dev 0.2246

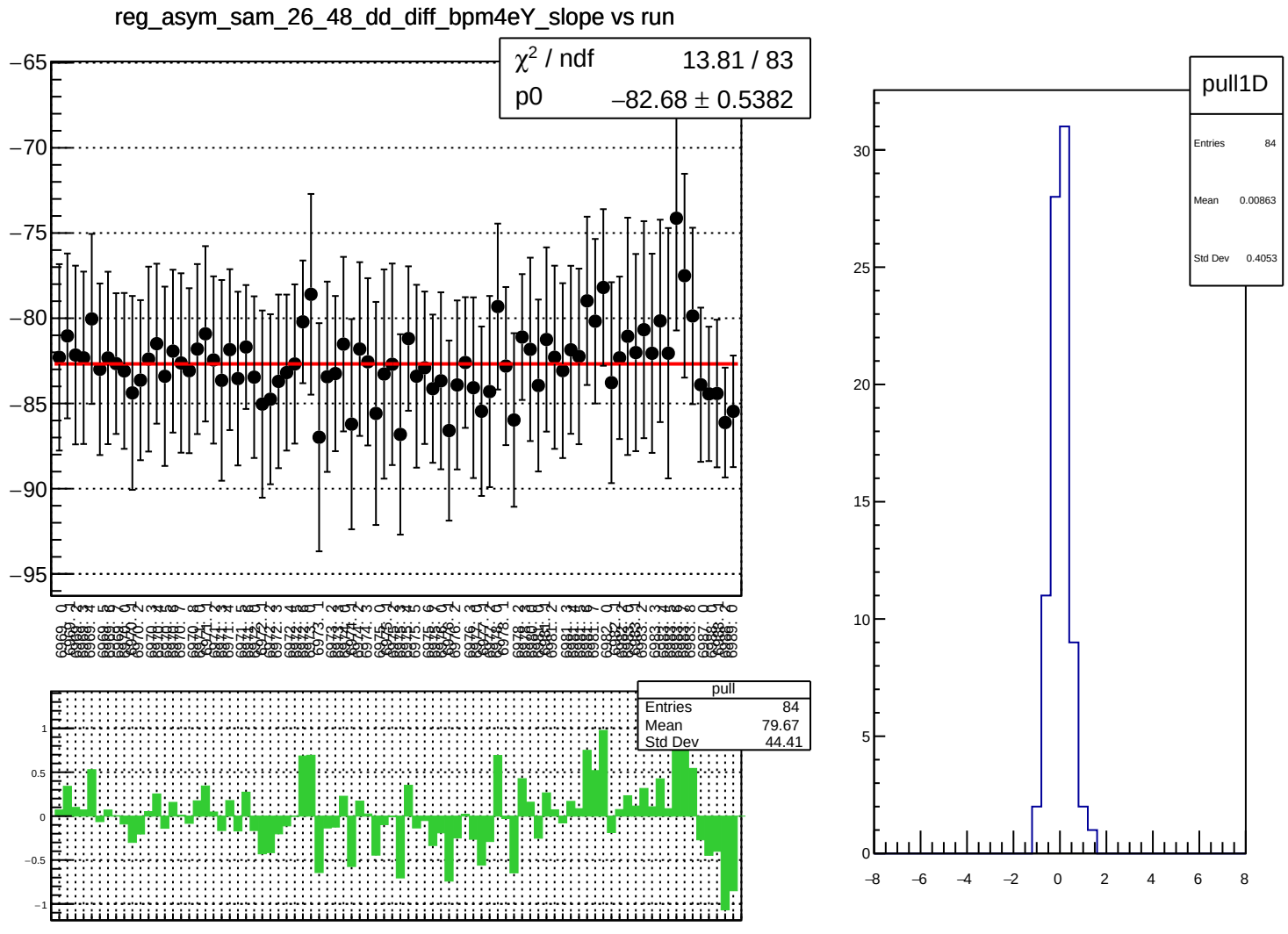

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 12.21 / 83
p0 5.67 ± 0.6706
pull
Entries 84
Mean 115.7
Std Dev 0

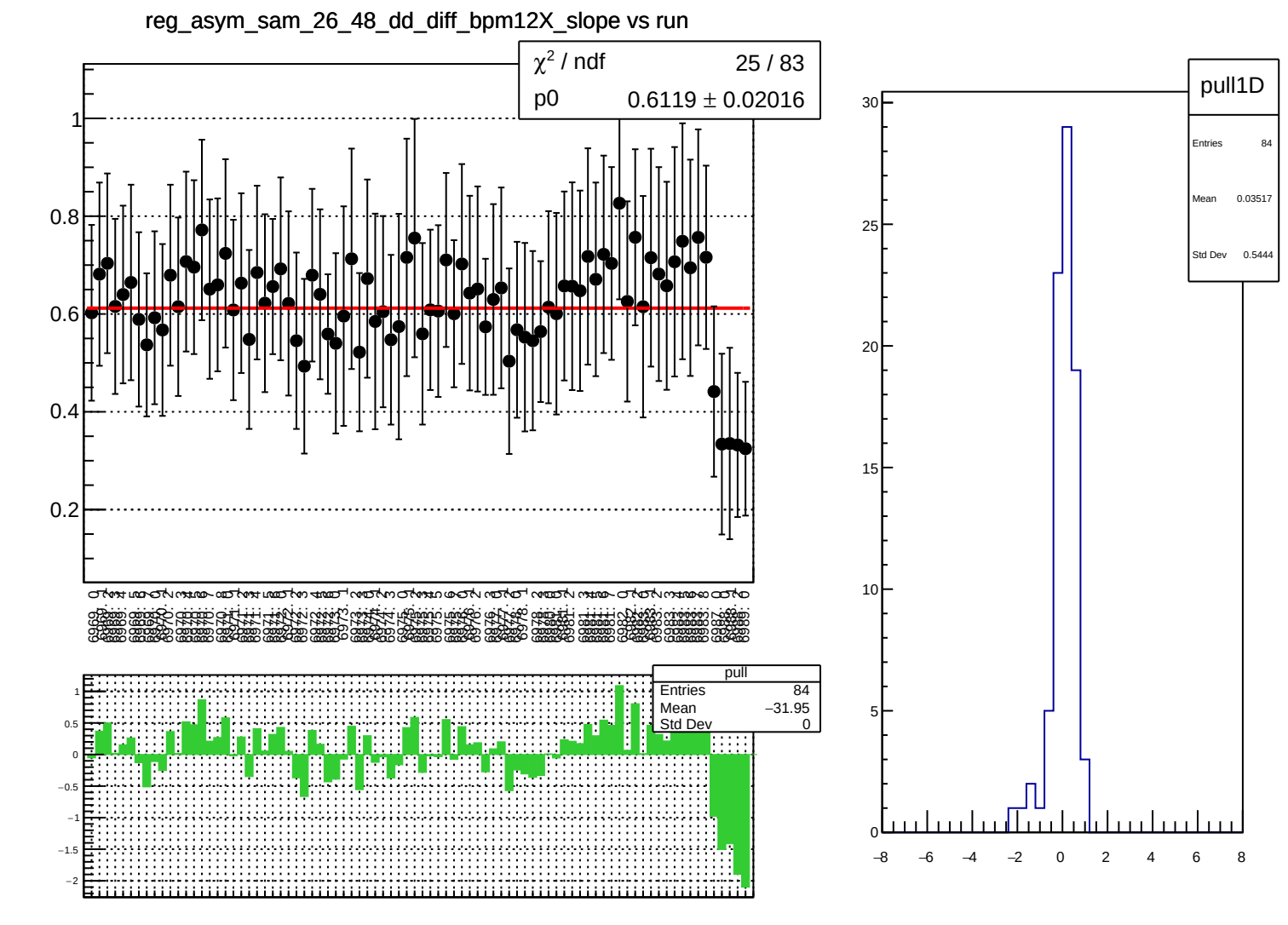

pull1D
Entries 84
Mean 0.03009
Std Dev 0.3801

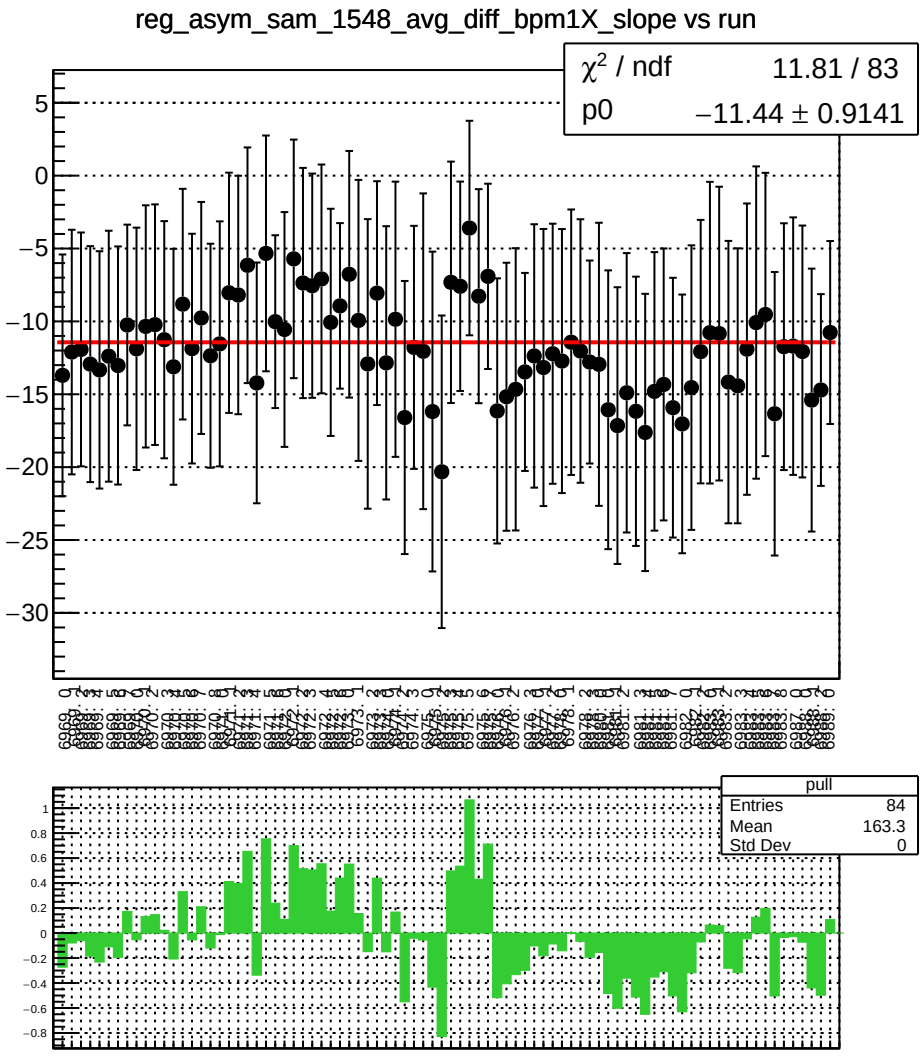

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.56 / 83
p0 6.354 ± 0.4706
pull
Entries 84
Mean −4.377
Std Dev 0
pull1D
Entries 84
Mean −0.02364
Std Dev 0.3702

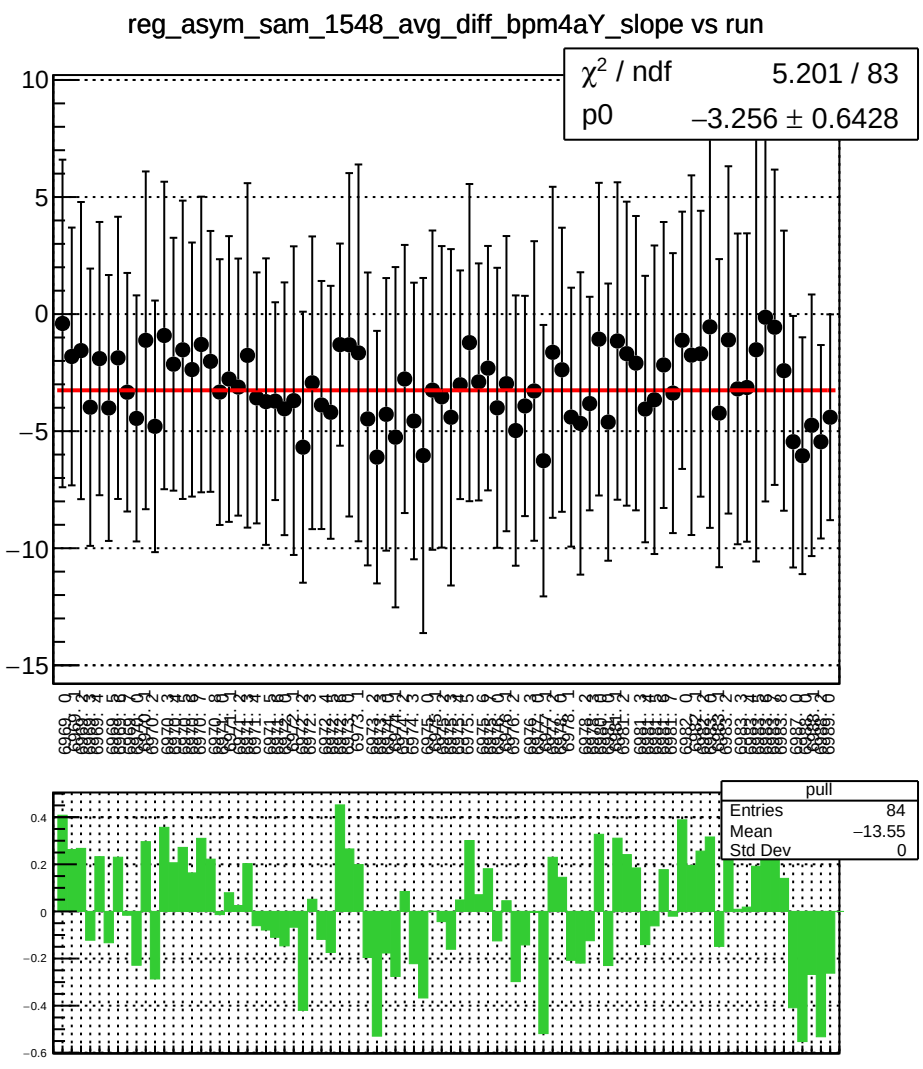

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.86 / 83
p0 17.35 ± 0.6152
pull
Entries 84
Mean 142.1
Std Dev 0

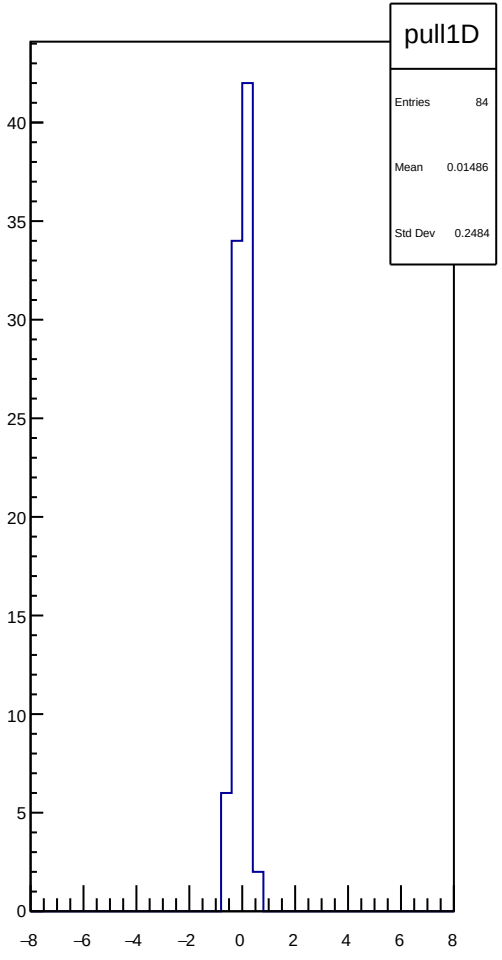

pull1D
Entries 84
Mean −0.03141
Std Dev 0.405

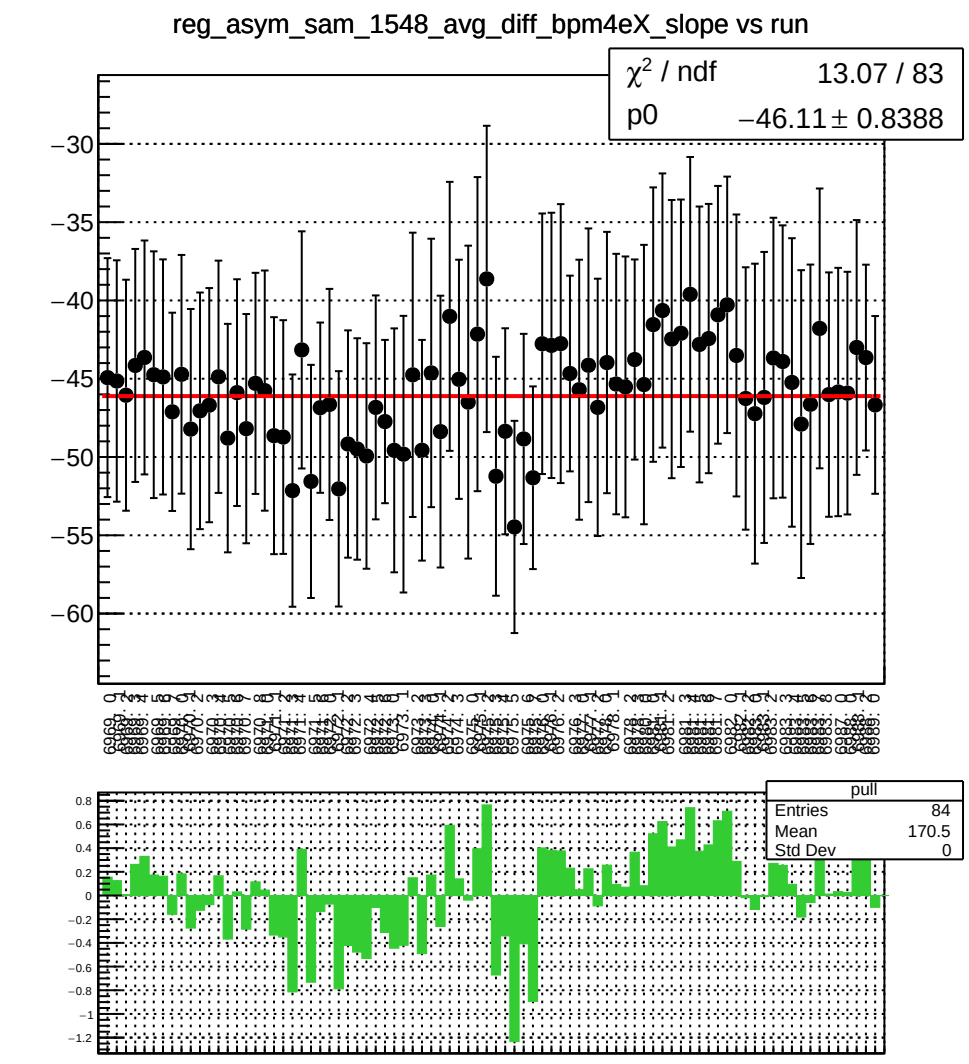

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.81 / 83
p0 −82.68 ± 0.5382
pull
Entries 84
Mean 79.67
Std Dev 44.41
pull1D
Entries 84
Mean 0.00863
Std Dev 0.4053

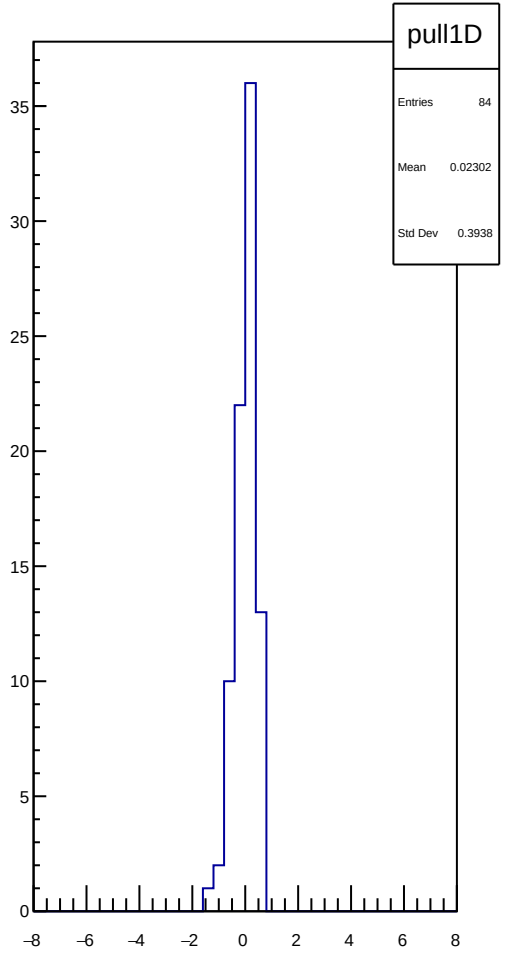

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 25 / 83
p0 0.6119 ± 0.02016
pull
Entries 84
Mean −31.95
Std Dev 0
pull1D
Entries 84
Mean 0.03517
Std Dev 0.5444

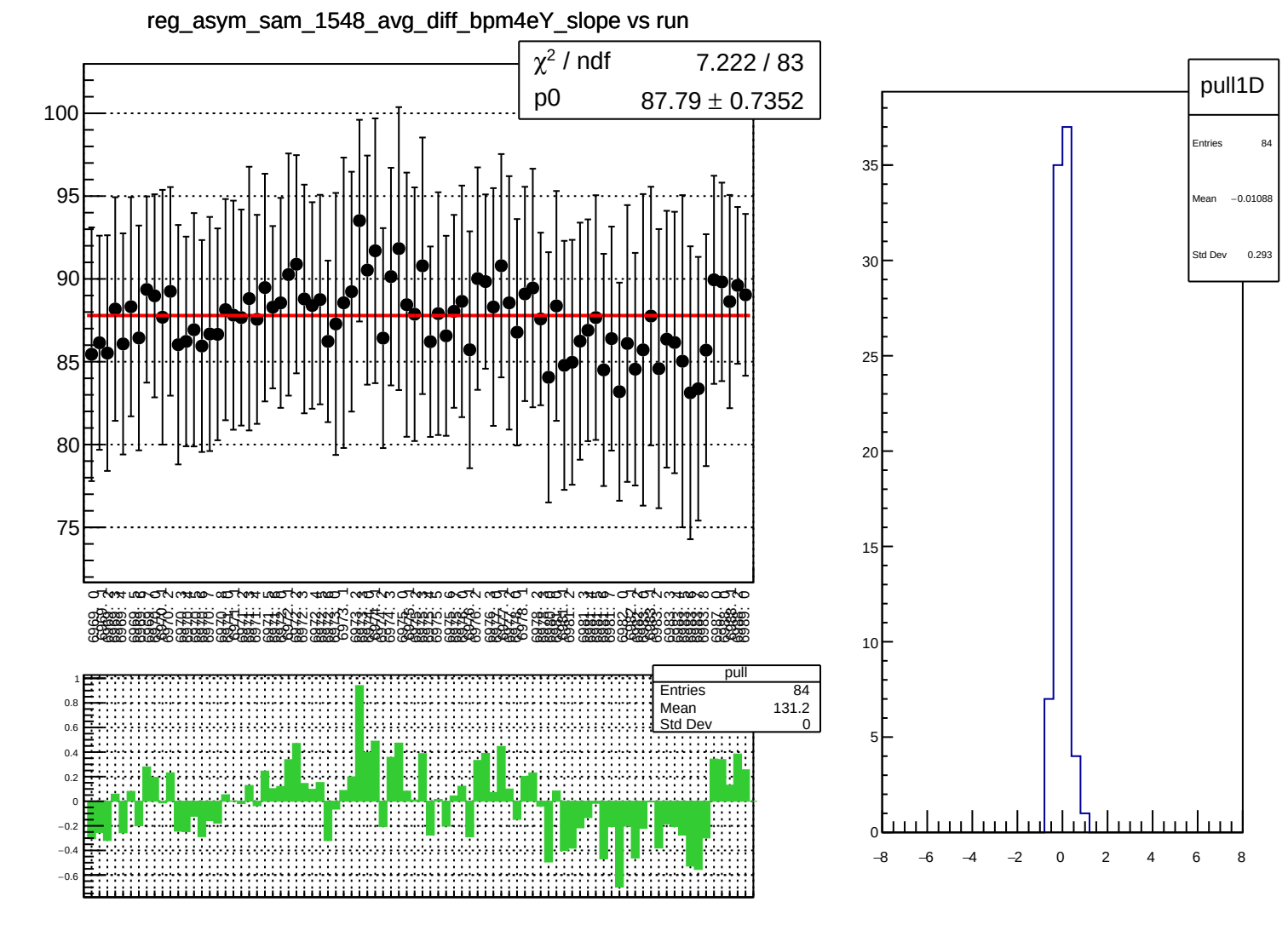

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 11.81 / 83
p0 −11.44 ± 0.9141
pull
Entries 84
Mean 163.3
Std Dev 0
pull1D
Entries 84
Mean −0.02442
Std Dev 0.3742

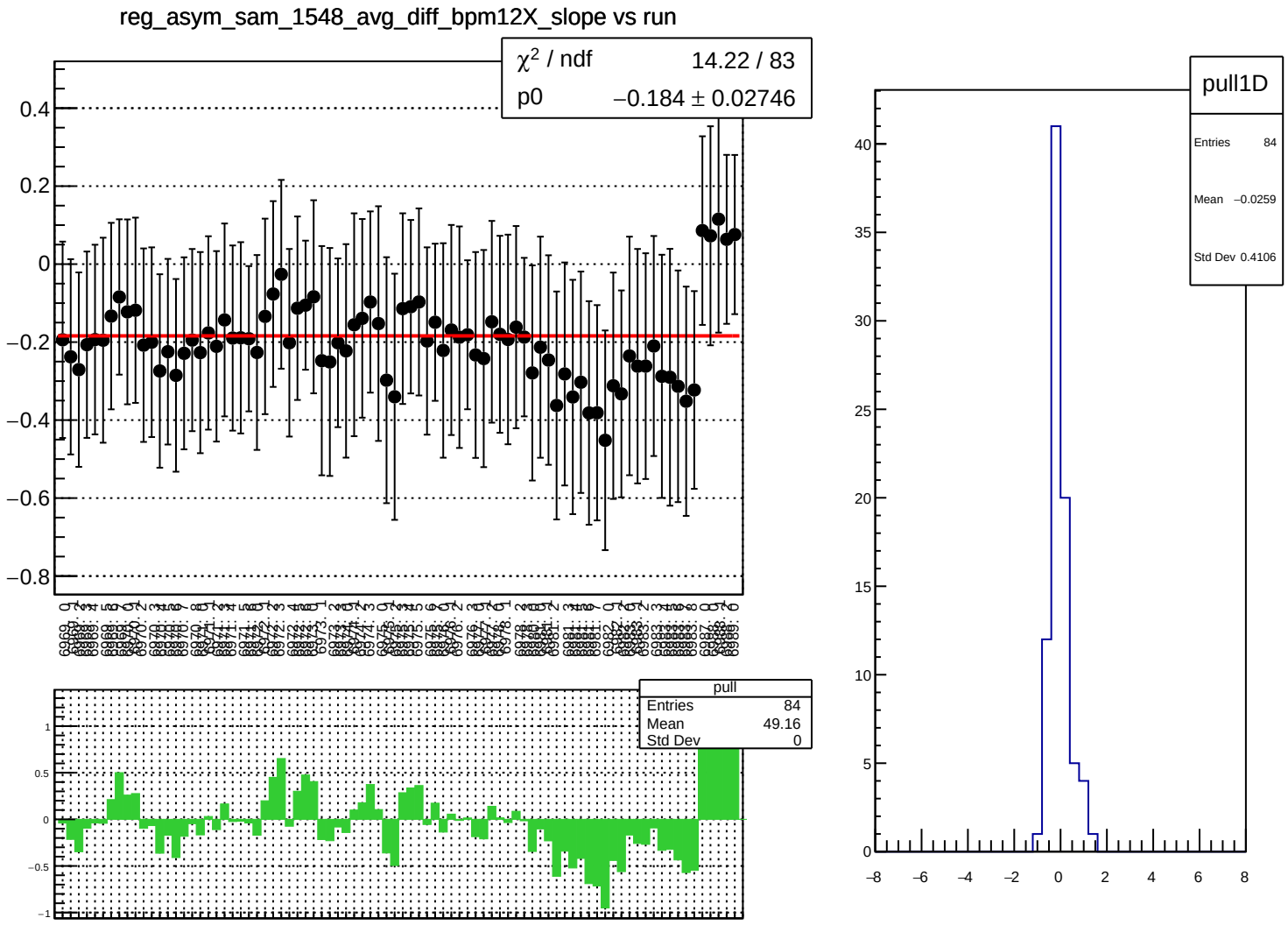

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.201 / 83
p0 −3.256 ± 0.6428
pull
Entries 84
Mean −13.55
Std Dev 0

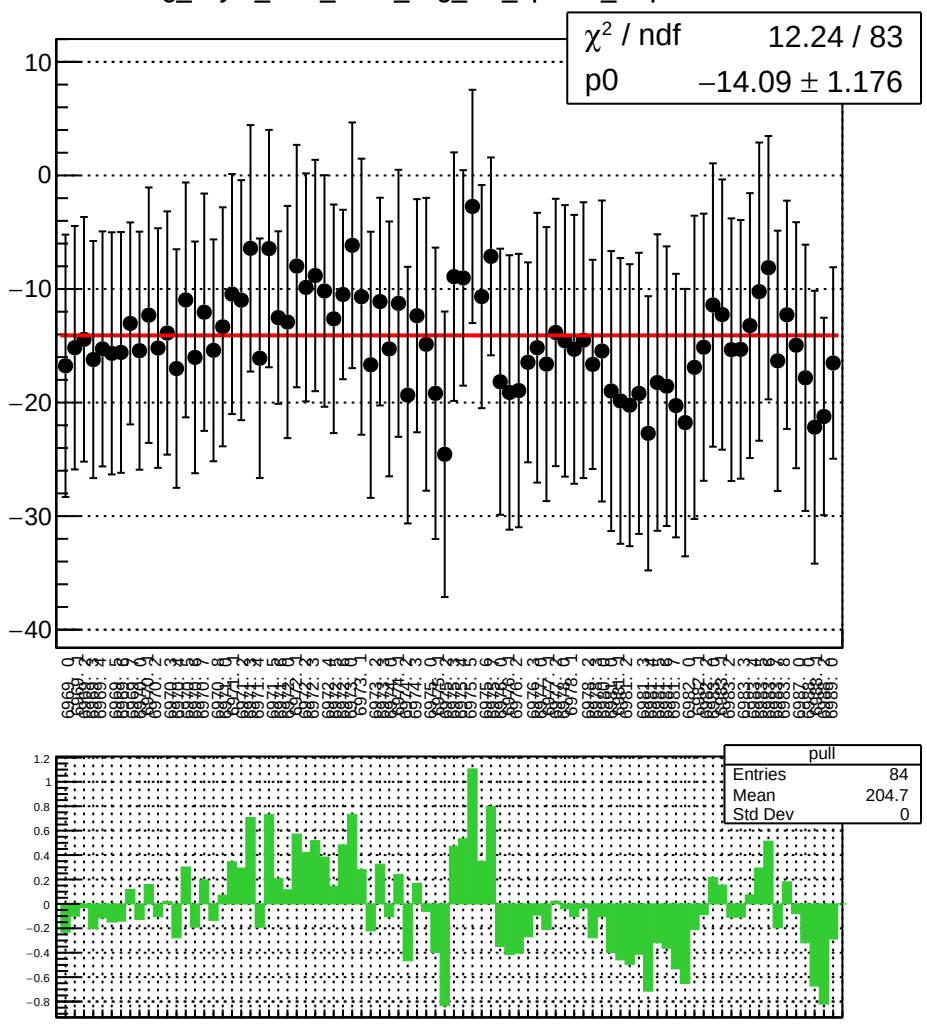

pull1D
Entries 84
Mean 0.01486
Std Dev 0.2484

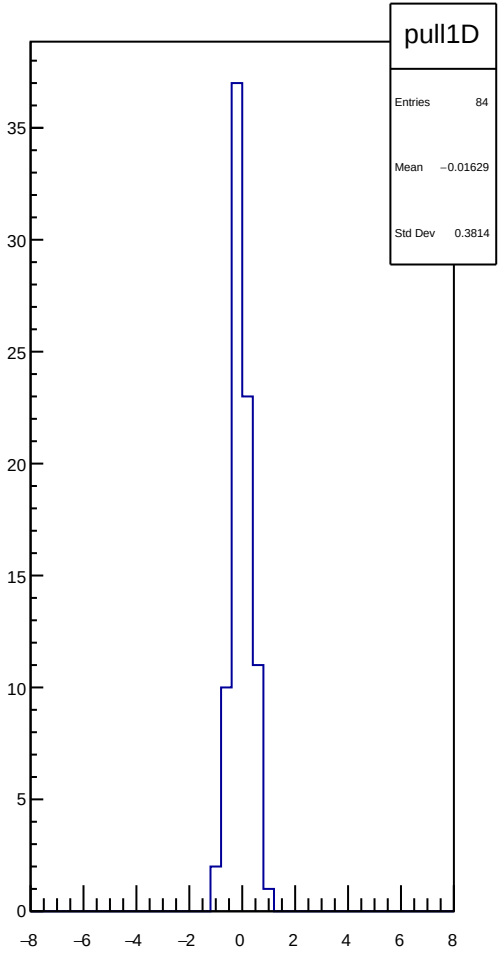

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.07 / 83
p0 −46.11 ± 0.8388
pull
Entries 84
Mean 170.5
Std Dev 0

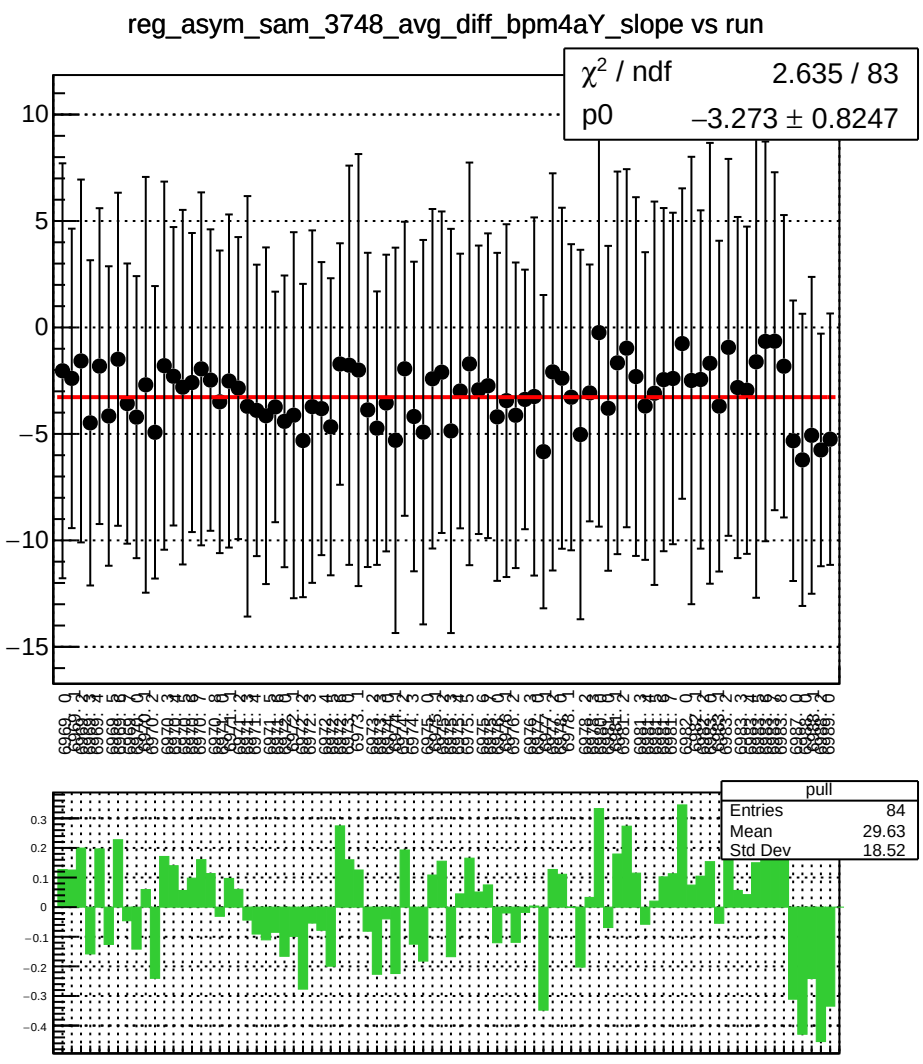

pull1D
Entries 84
Mean 0.02302
Std Dev 0.3938

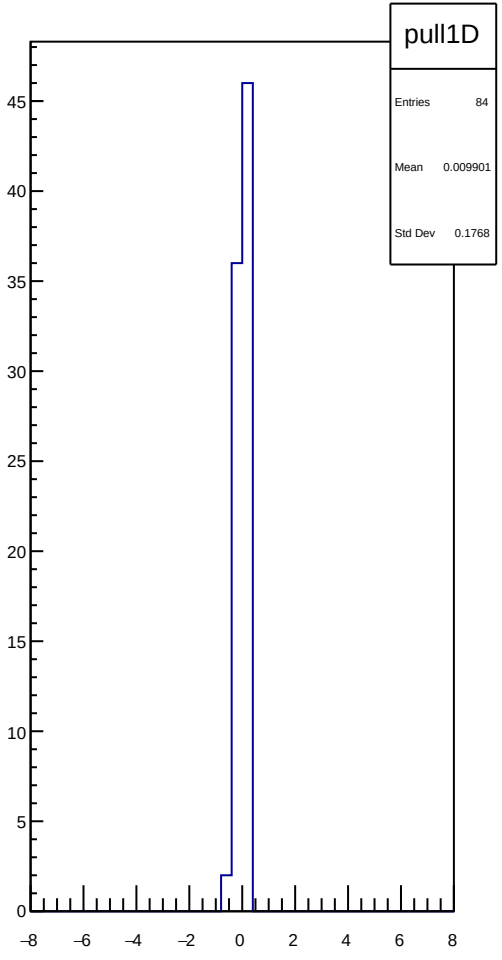

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.222 / 83
p0 87.79 ± 0.7352
100
95
90
85
80
75
pull
Entries 84
Mean 131.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 84
Mean −0.01088
Std Dev 0.293
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

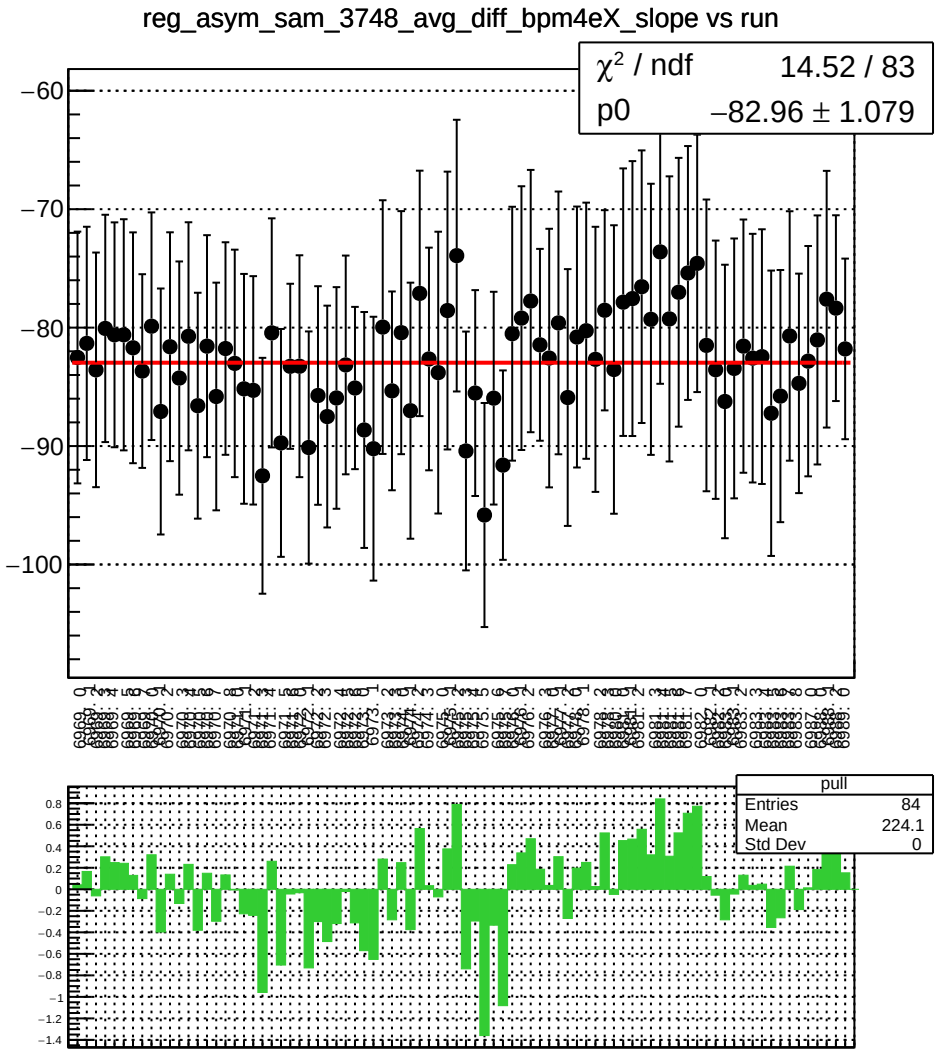

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 14.22 / 83
p0 −0.184 ± 0.02746
pull
Entries 84
Mean 49.16
Std Dev 0
pull1D
Entries 84
Mean −0.0259
Std Dev 0.4106

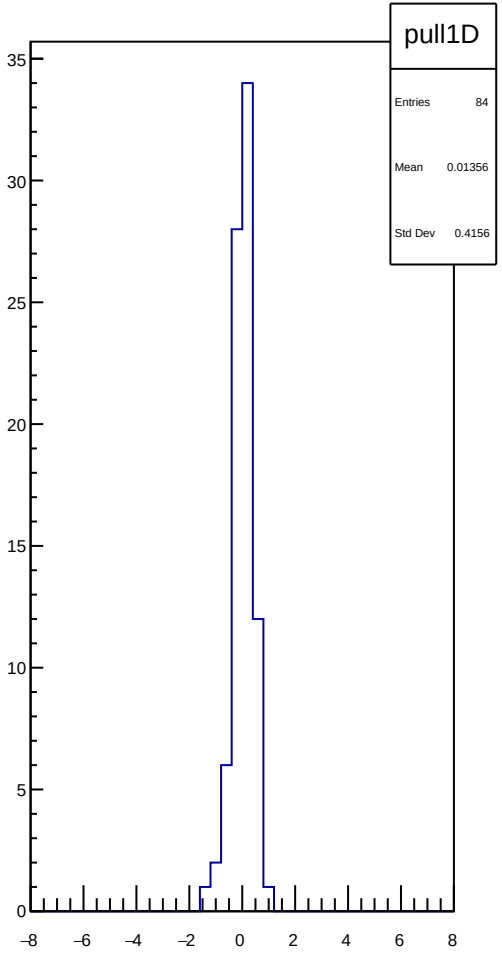

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 12.24 / 83
p0 −14.09 ± 1.176
pull
Entries 84
Mean 204.7
Std Dev 0

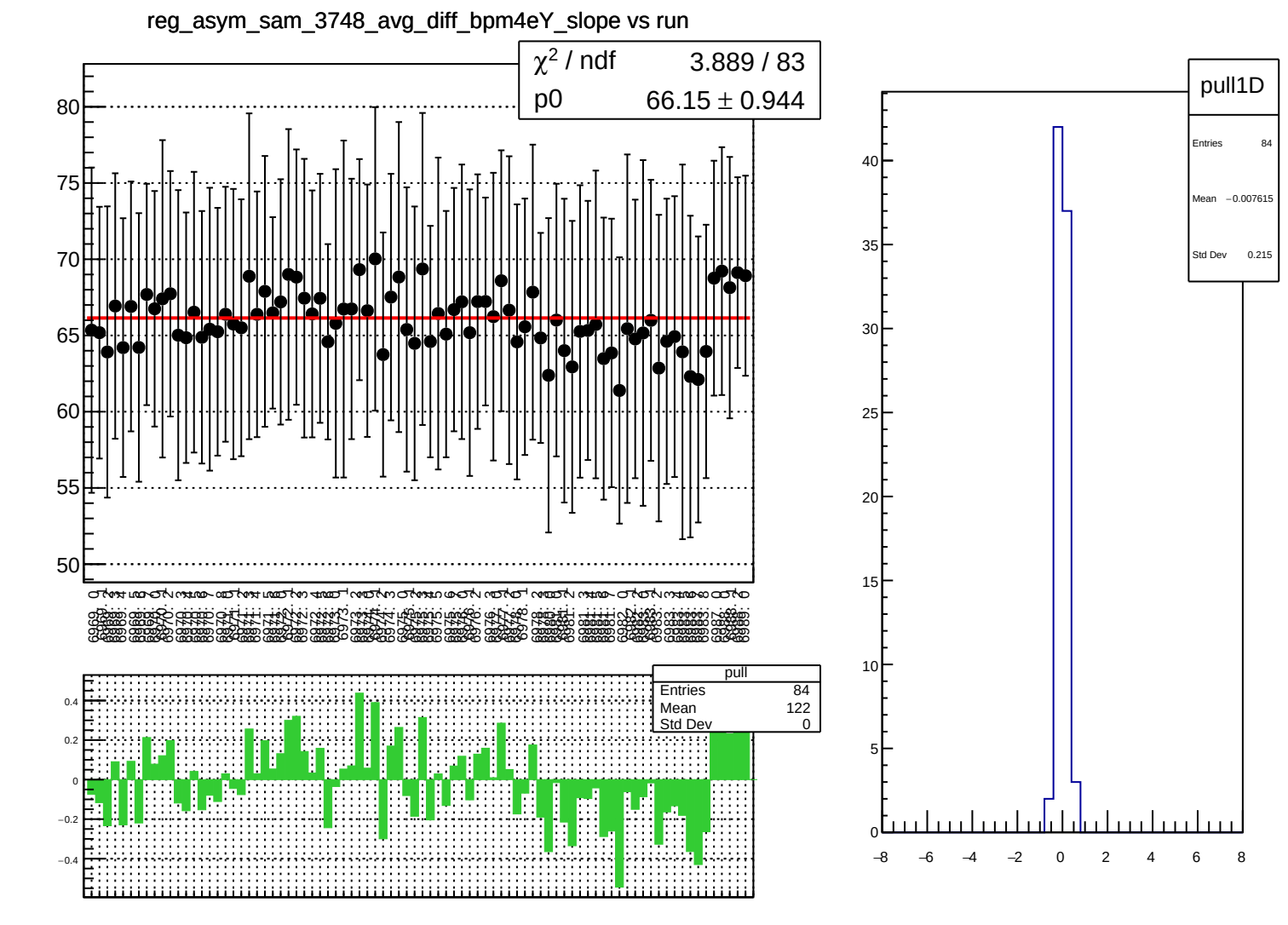

pull1D
Entries 84
Mean −0.01629
Std Dev 0.3814

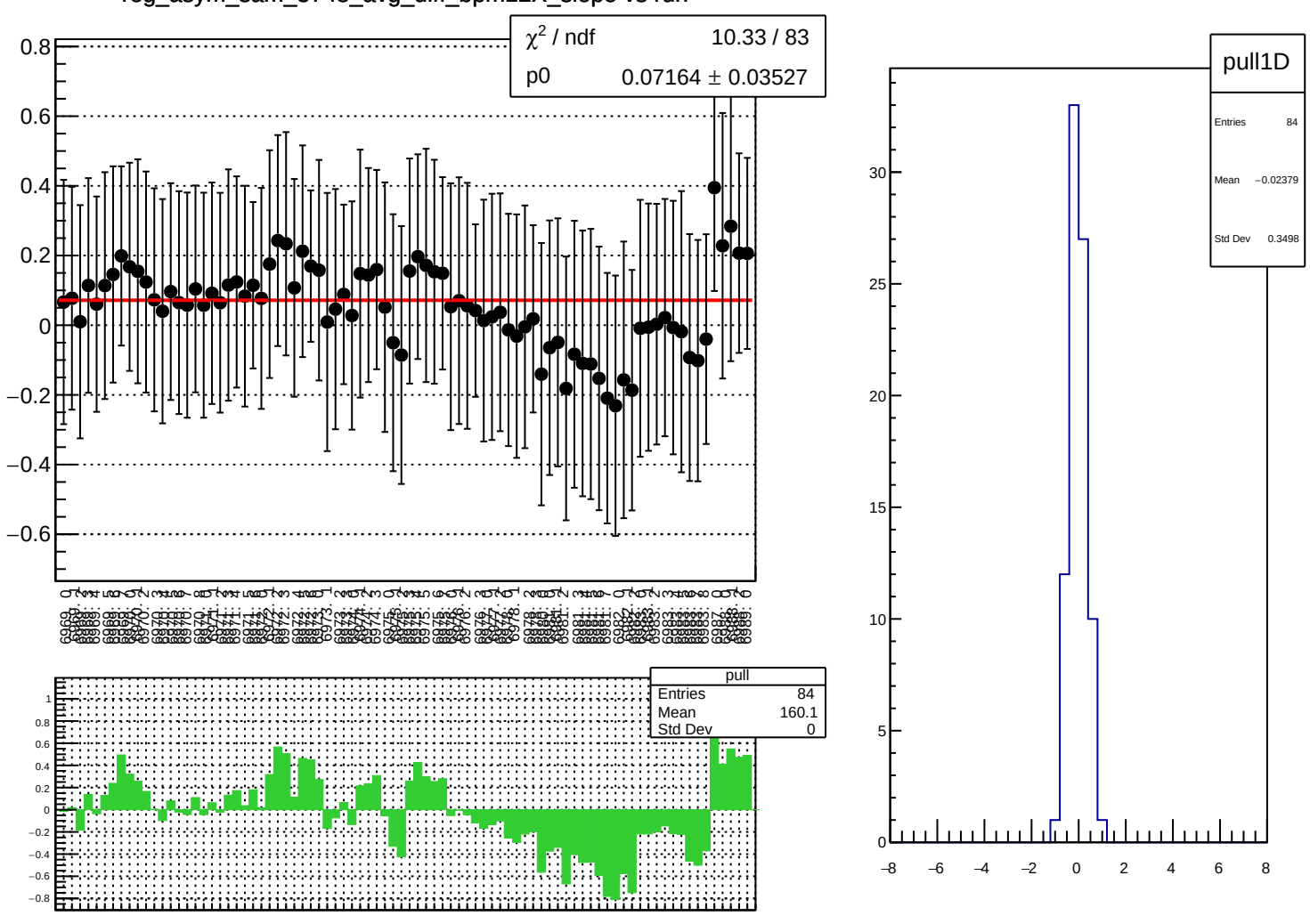

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.635 / 83
p0 −3.273 ± 0.8247
pull
Entries 84
Mean 29.63
Std Dev 18.52

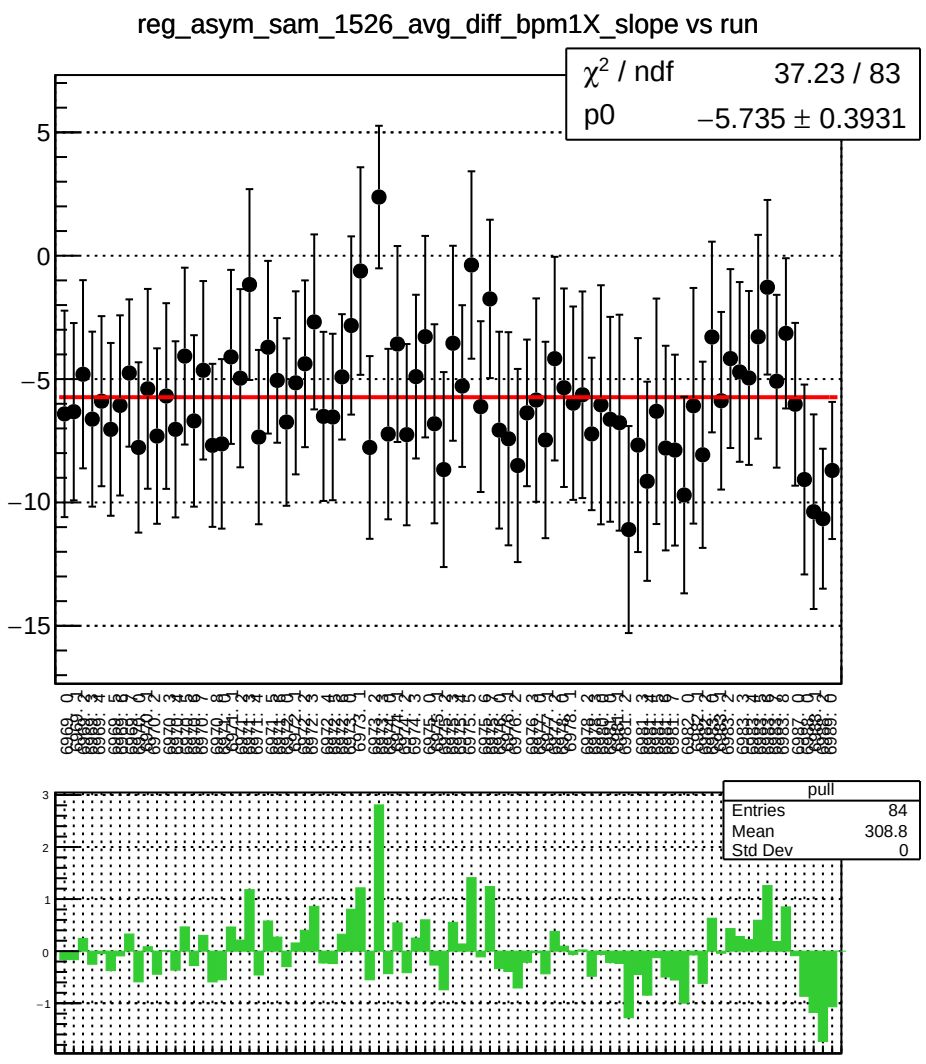

pull1D
Entries 84
Mean 0.009901
Std Dev 0.1768

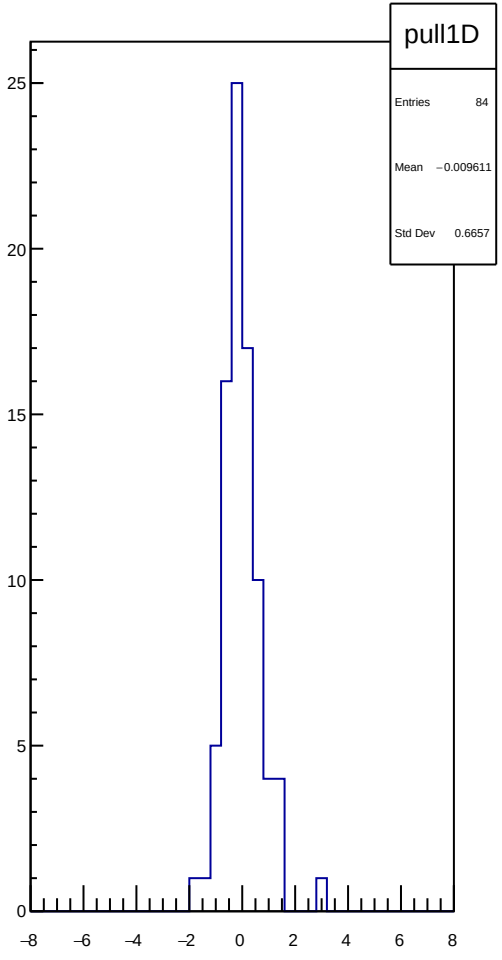

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.52 / 83
p0 −82.96 ± 1.079
pull
Entries 84
Mean 224.1
Std Dev 0

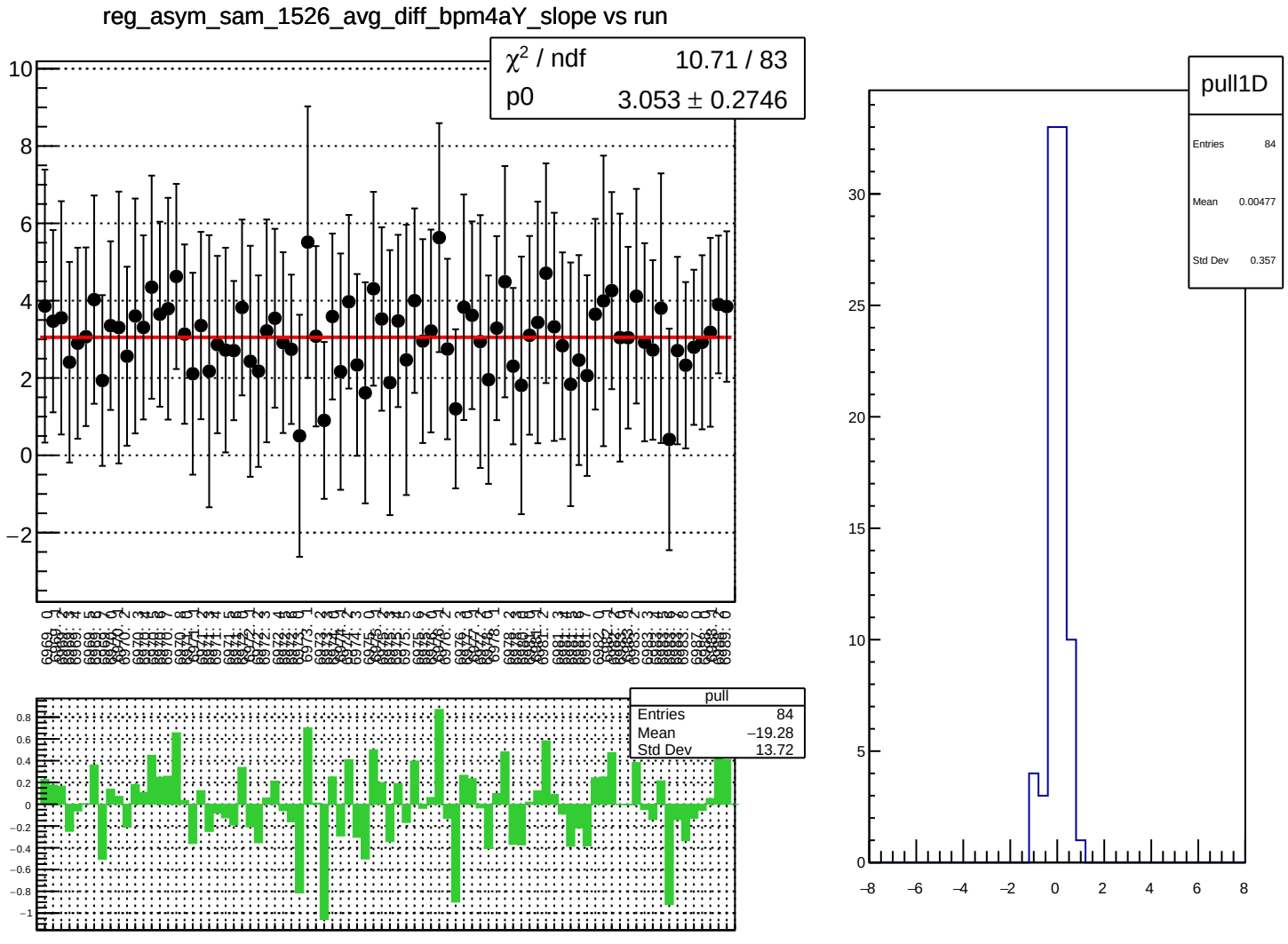

pull1D
Entries 84
Mean 0.01356
Std Dev 0.4156

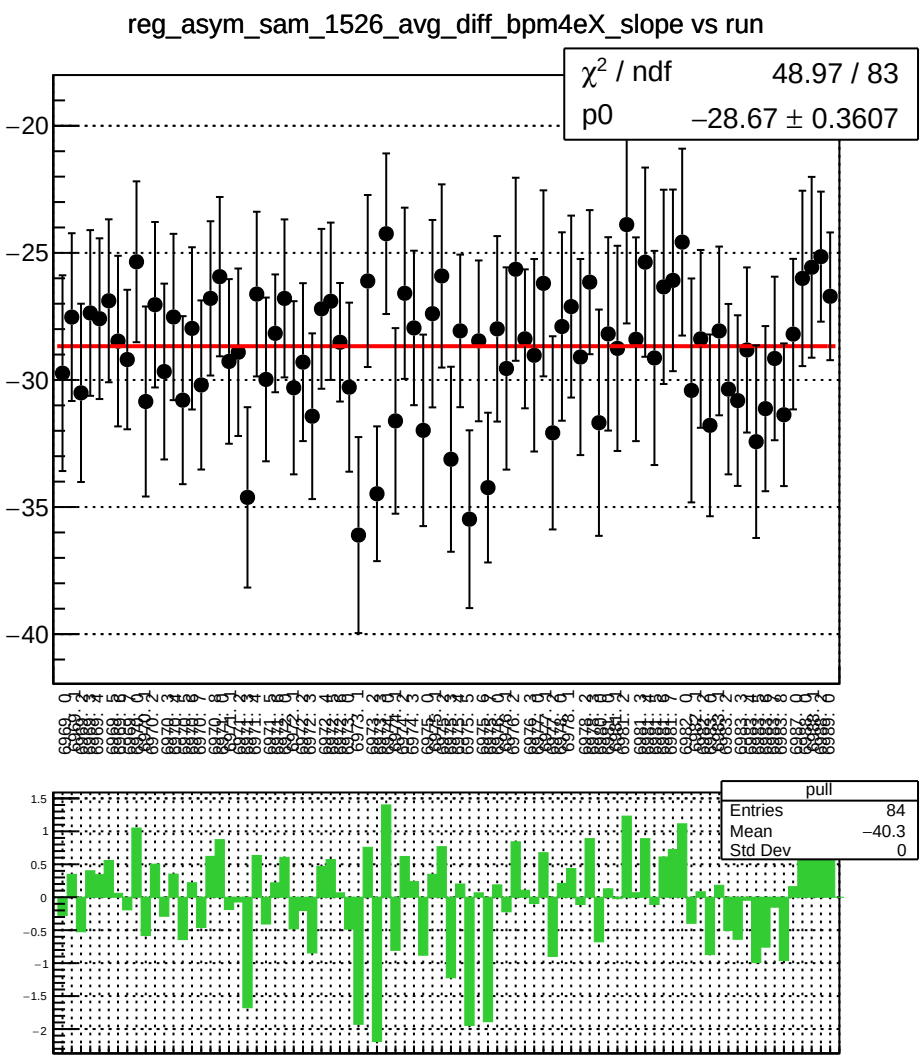

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.889 / 83
p0 66.15 ± 0.944
pull
Entries 84
Mean 122
Std Dev 0
pull1D
Entries 84
Mean −0.007615
Std Dev 0.215

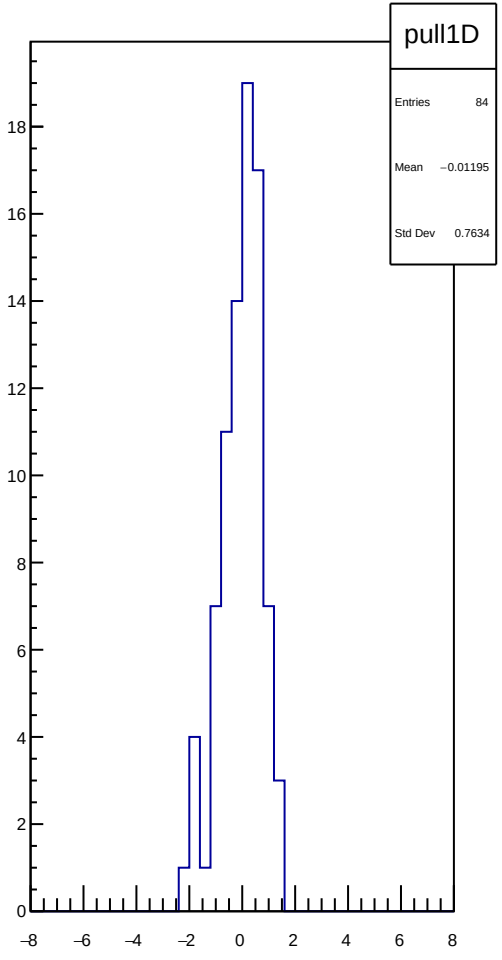

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 10.33 / 83
p0 0.07164 ± 0.03527
pull
Entries 84
Mean 160.1
Std Dev 0
pull1D
Entries 84
Mean −0.02379
Std Dev 0.3498

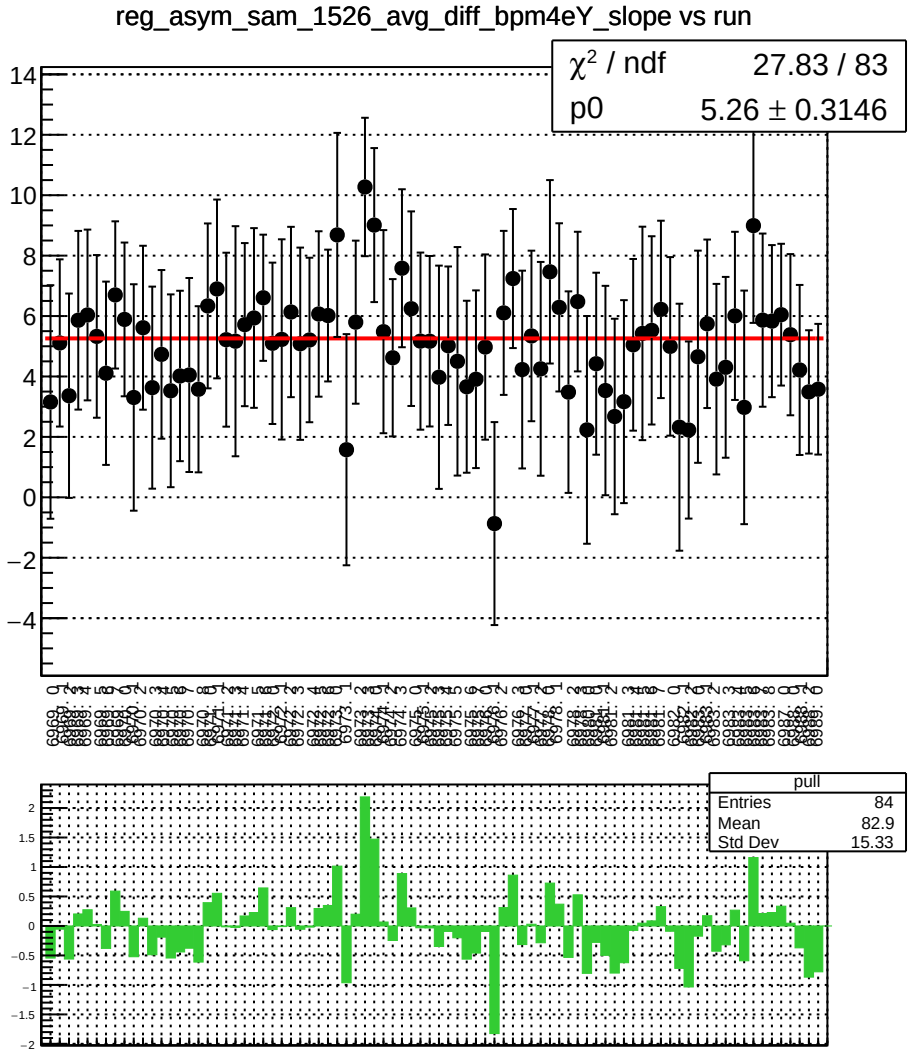

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 37.23 / 83
p0 −5.735 ± 0.3931
pull
Entries 84
Mean 308.8
Std Dev 0

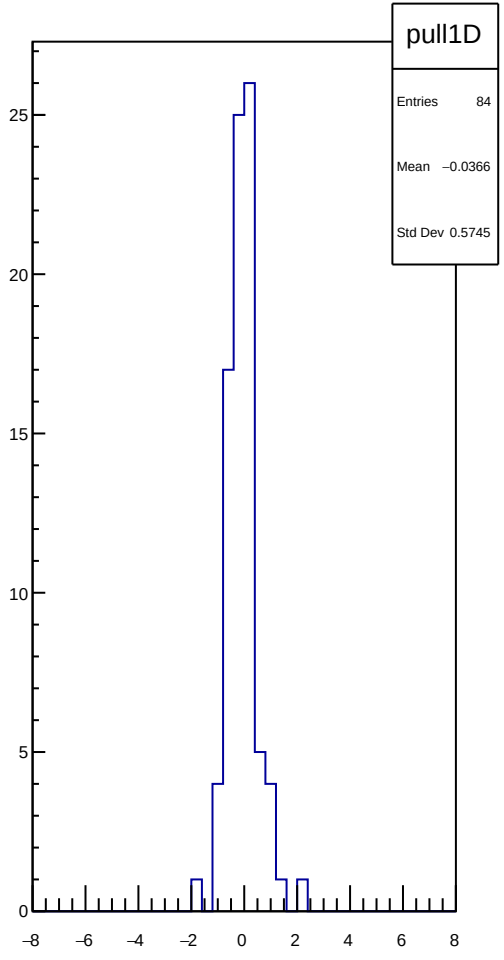

pull1D
Entries 84
Mean −0.009611
Std Dev 0.6657

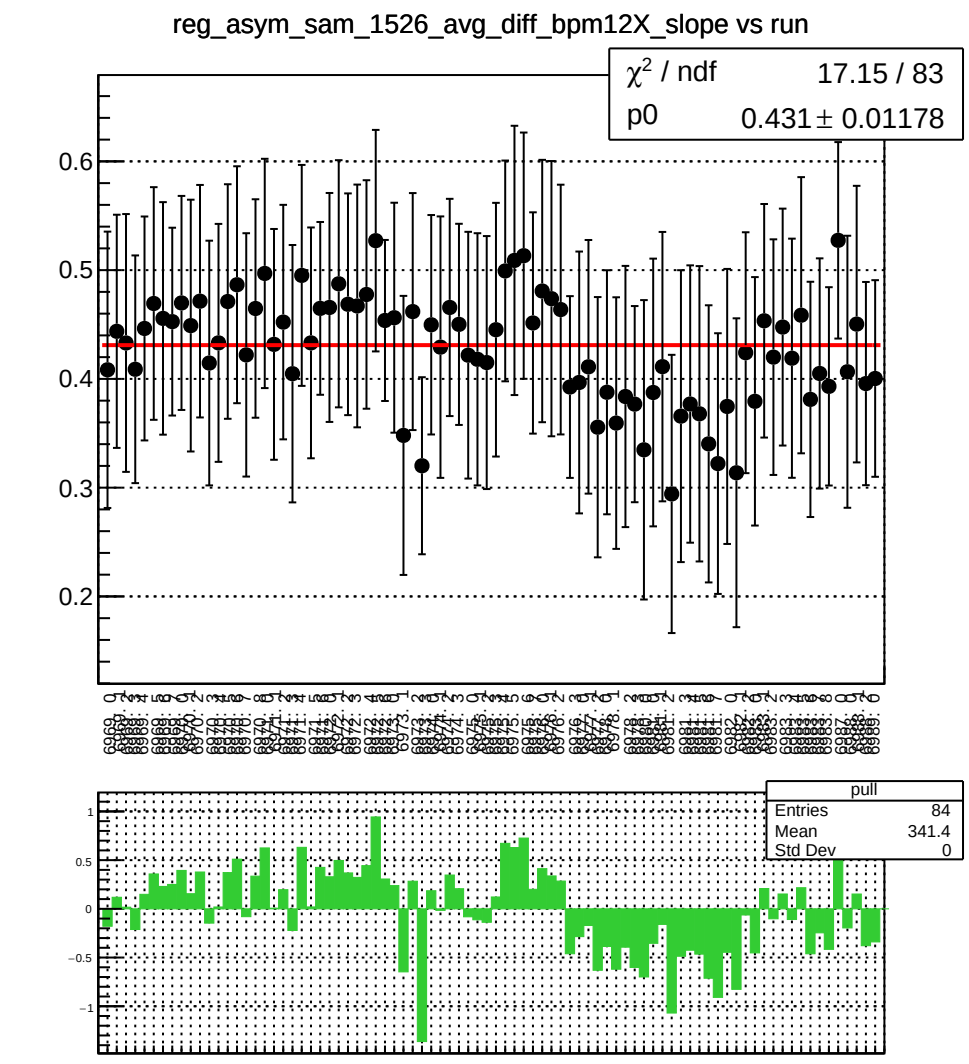

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.71 / 83
p0 3.053 ± 0.2746
pull
Entries 84
Mean −19.28
Std Dev 13.72
pull1D
Entries 84
Mean 0.00477
Std Dev 0.357

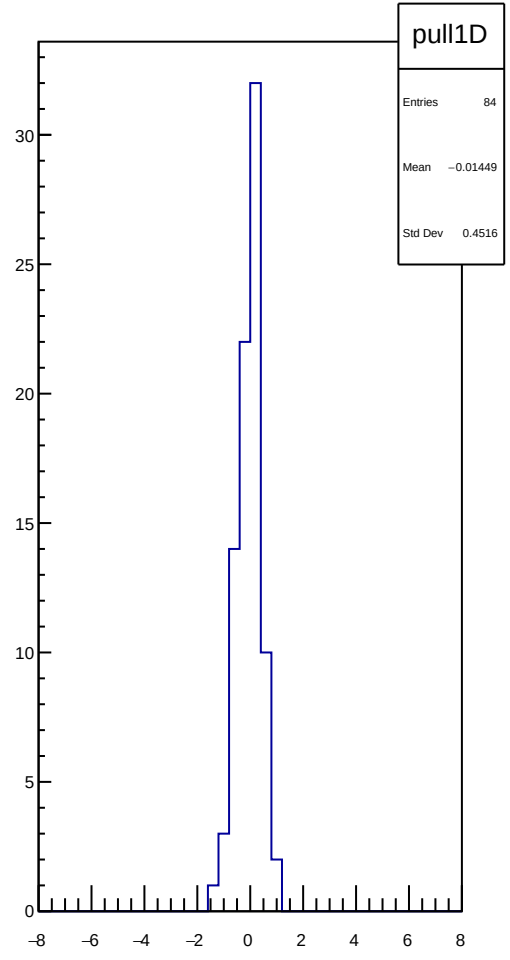

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.97 / 83
p0 −28.67 ± 0.3607
pull
Entries 84
Mean −40.3
Std Dev 0

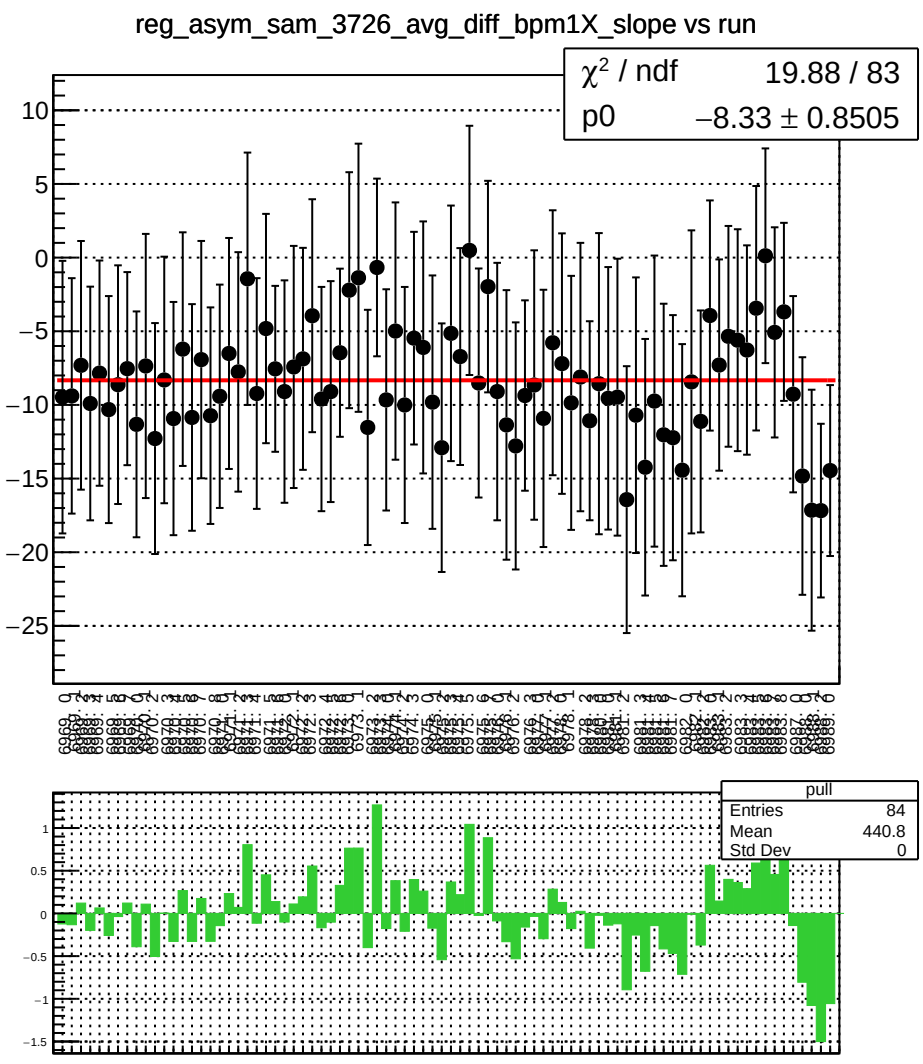

pull1D
Entries 84
Mean −0.01195
Std Dev 0.7634

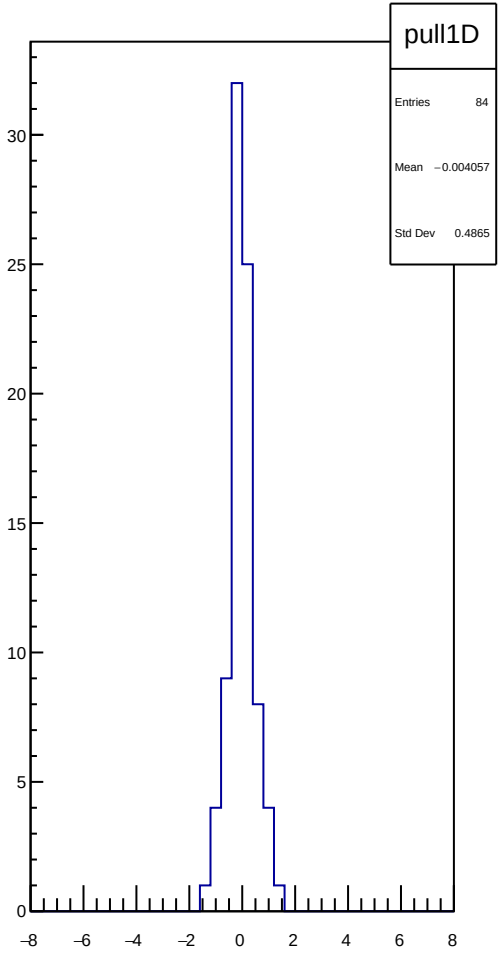

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.83 / 83
p0 5.26 ± 0.3146
pull
Entries 84
Mean 82.9
Std Dev 15.33

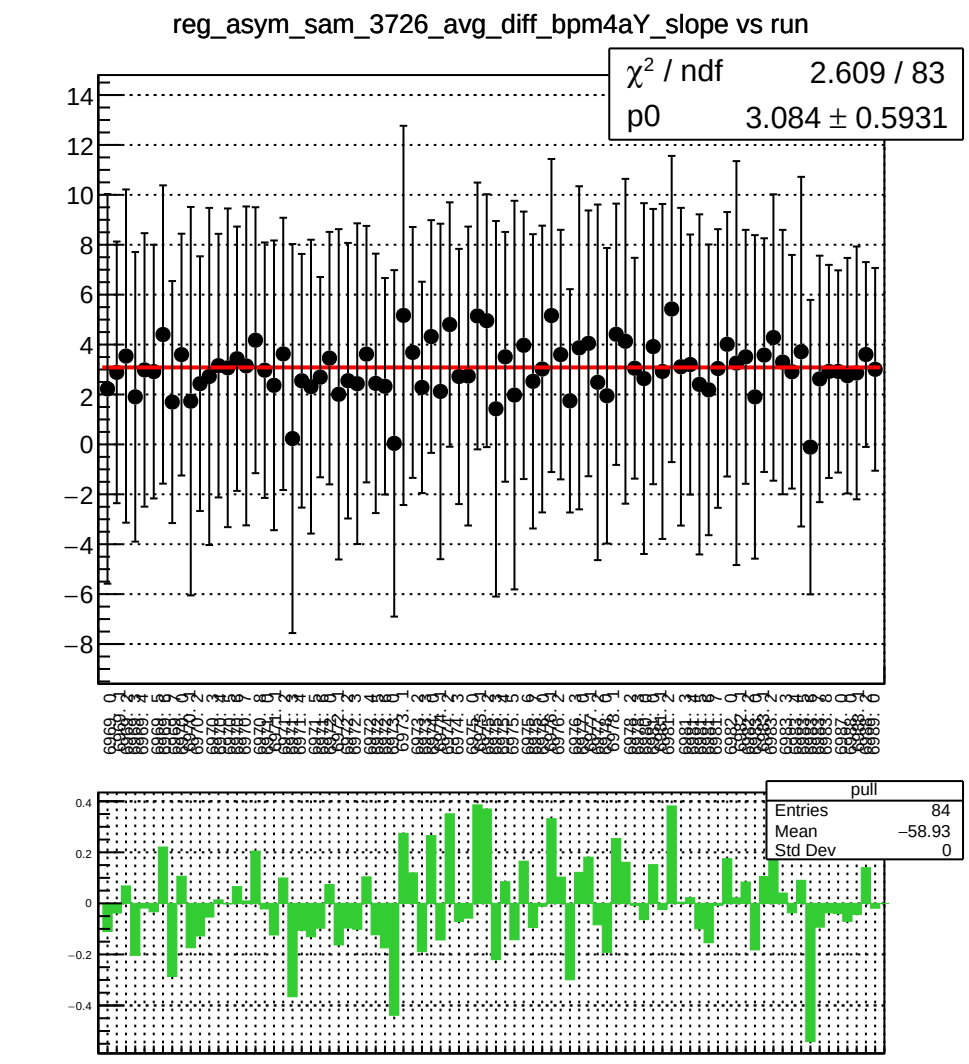

pull1D
Entries 84
Mean −0.0366
Std Dev 0.5745

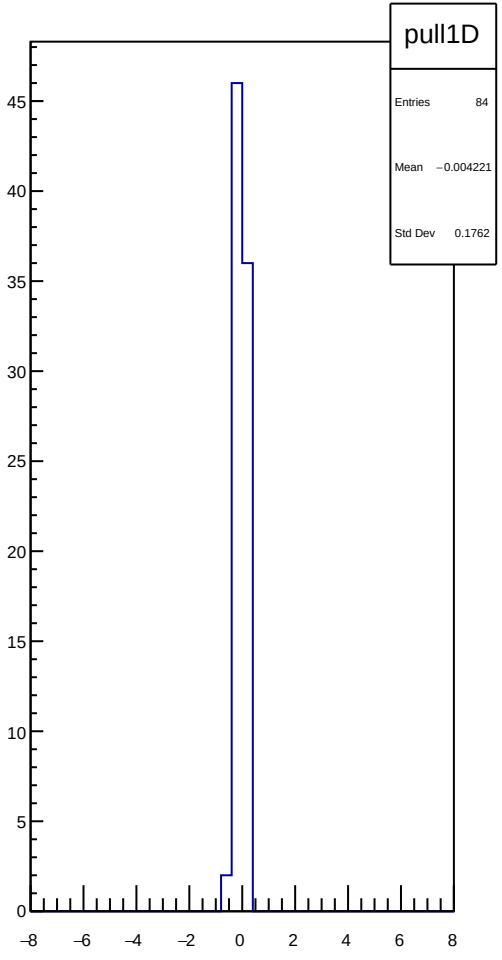

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 17.15 / 83
p0 0.431 ± 0.01178
pull
Entries 84
Mean 341.4
Std Dev 0

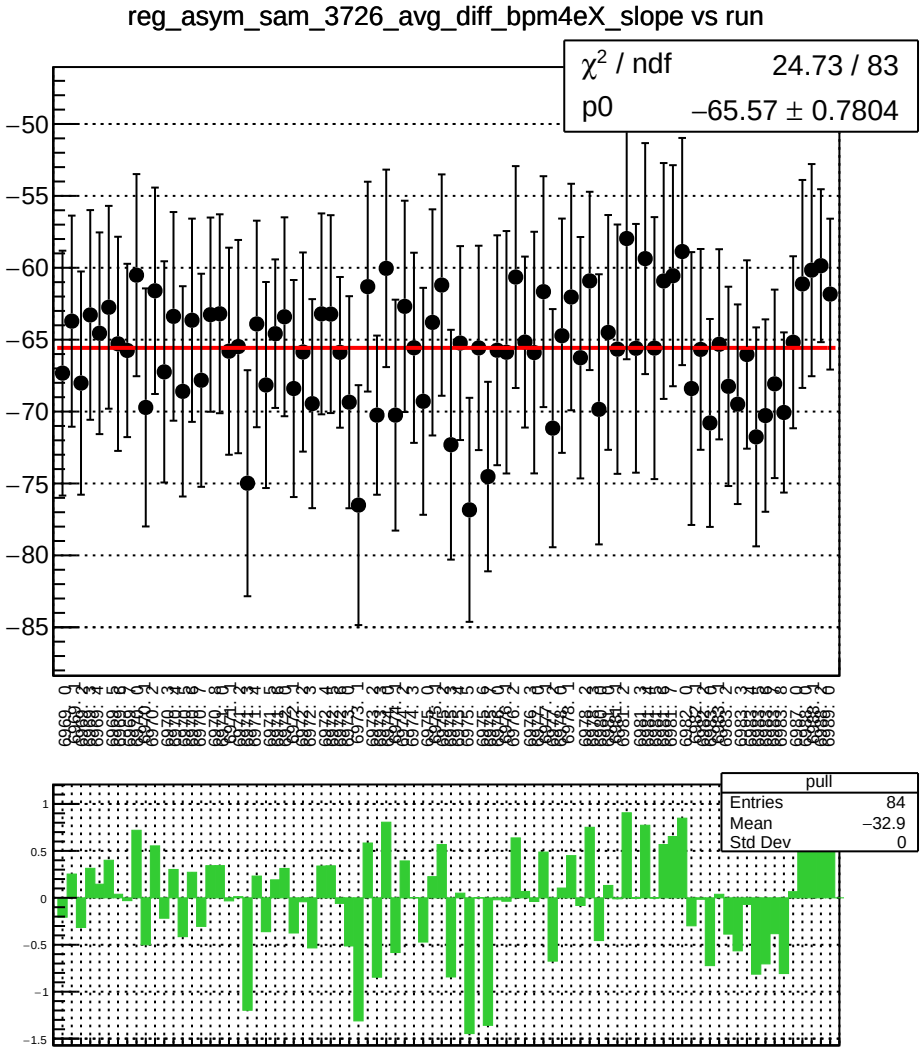

pull1D
Entries 84
Mean −0.01449
Std Dev 0.4516

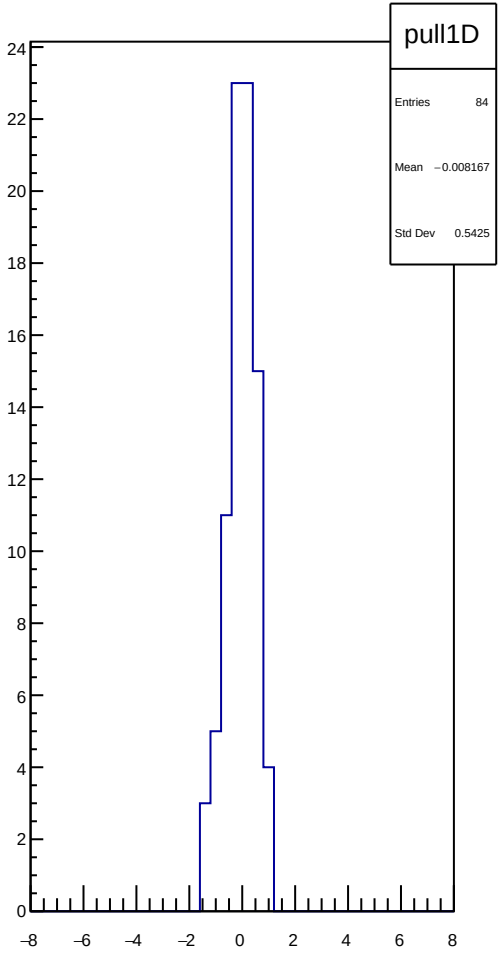

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 19.88 / 83
p0 −8.33 ± 0.8505
pull
Entries 84
Mean 440.8
Std Dev 0

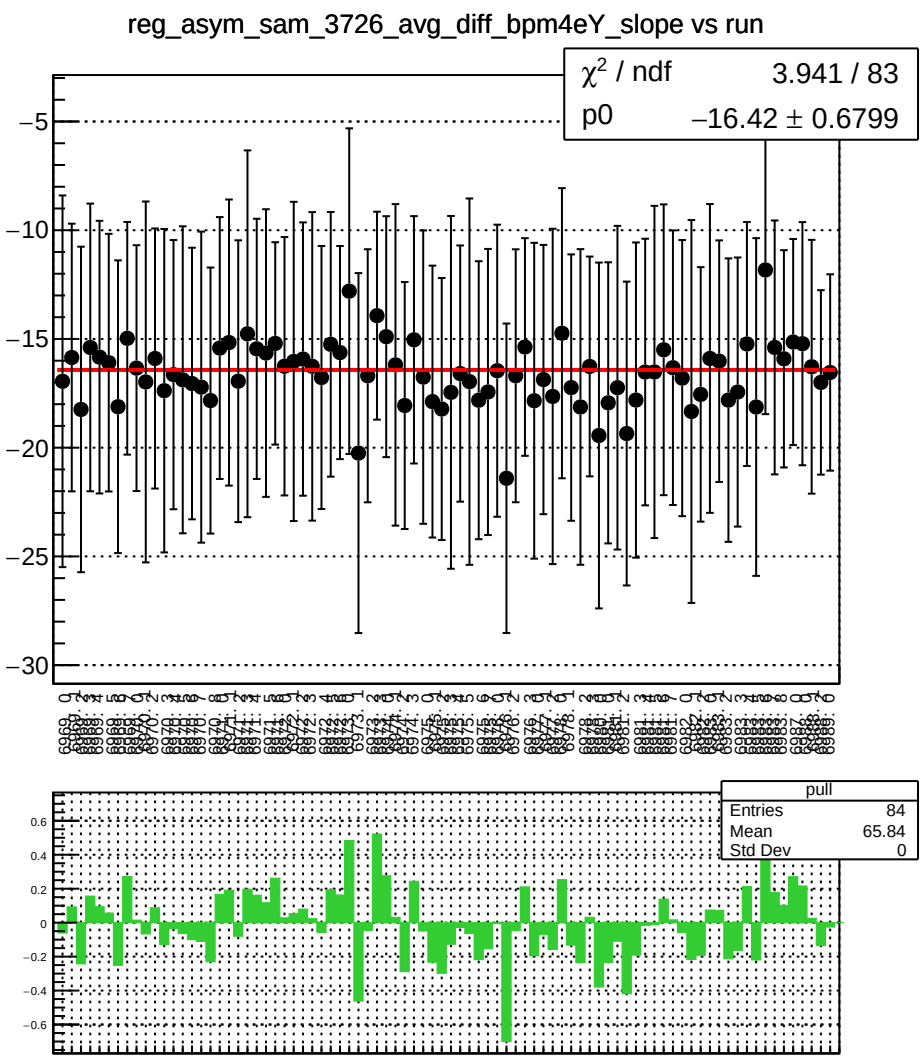

pull1D
Entries 84
Mean −0.004057
Std Dev 0.4865

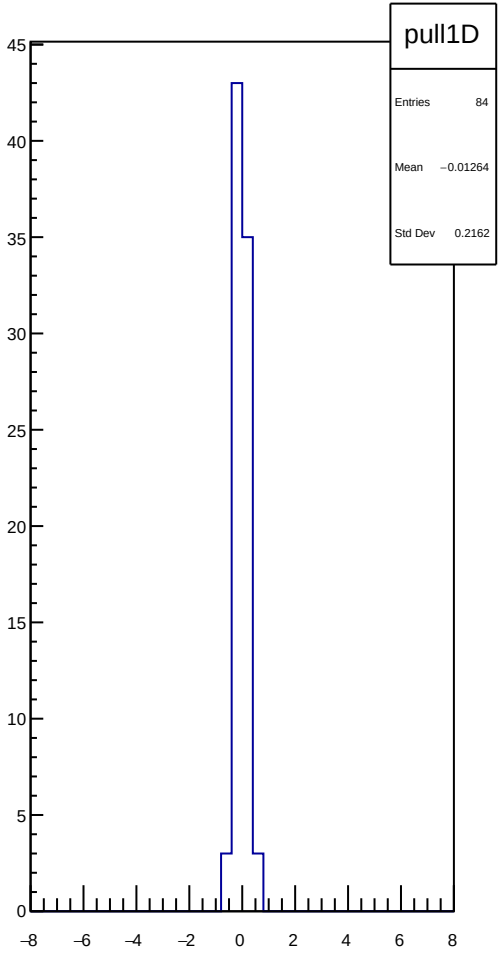

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.609 / 83
p0 3.084 ± 0.5931
pull
Entries 84
Mean −58.93
Std Dev 0

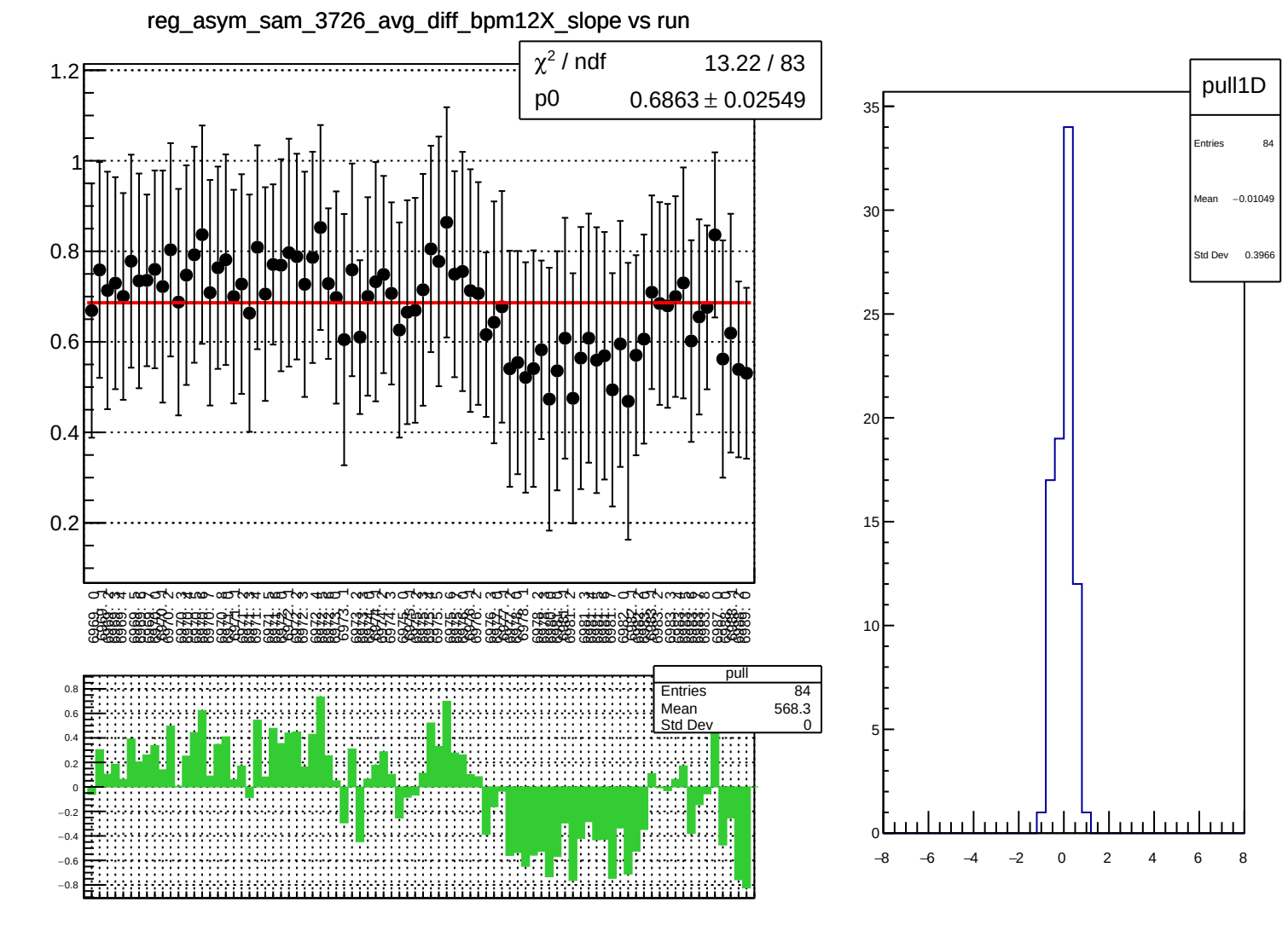

pull1D
Entries 84
Mean −0.004221
Std Dev 0.1762

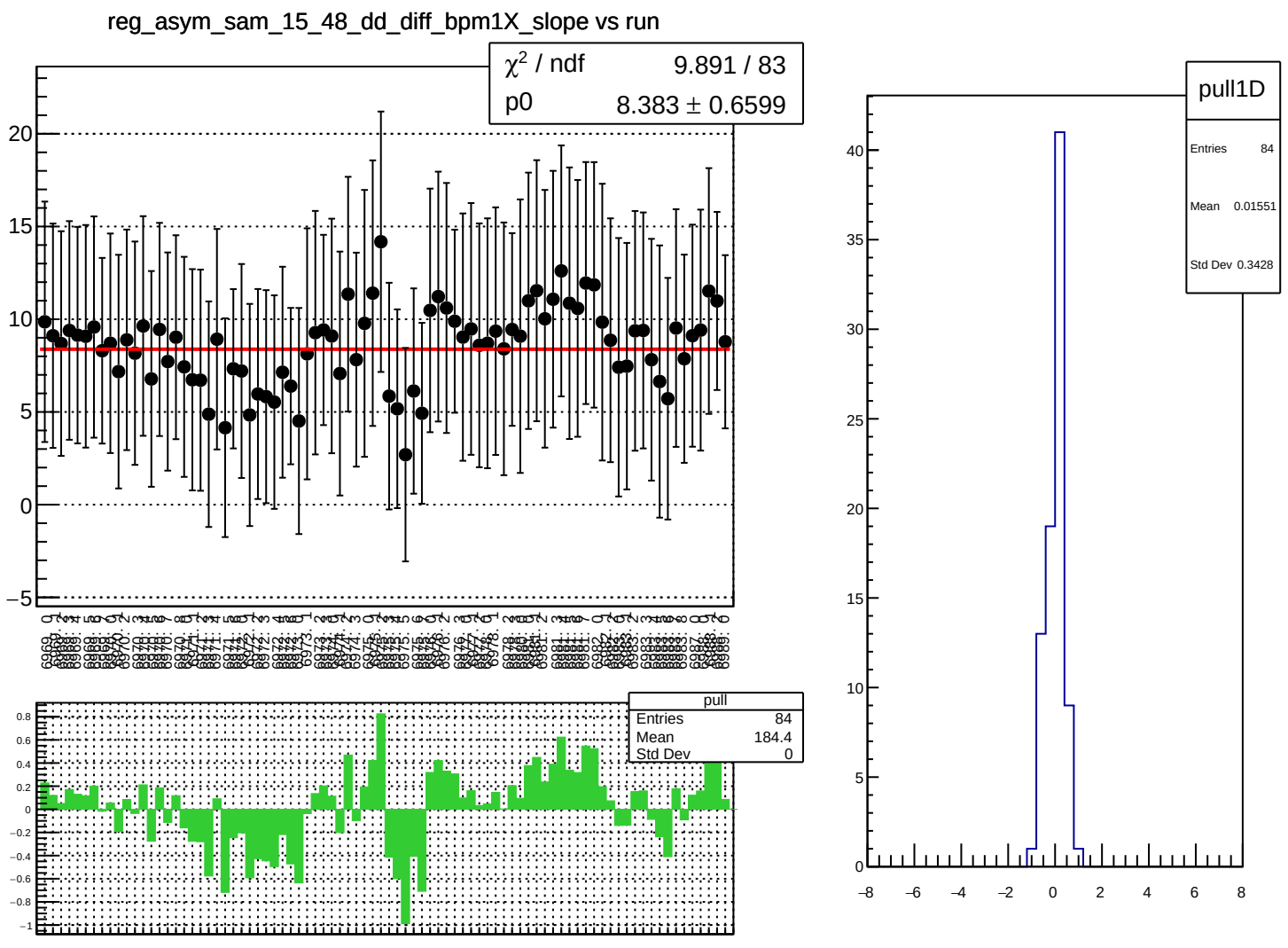

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.73 / 83
p0 −65.57 ± 0.7804
pull
Entries 84
Mean −32.9
Std Dev 0

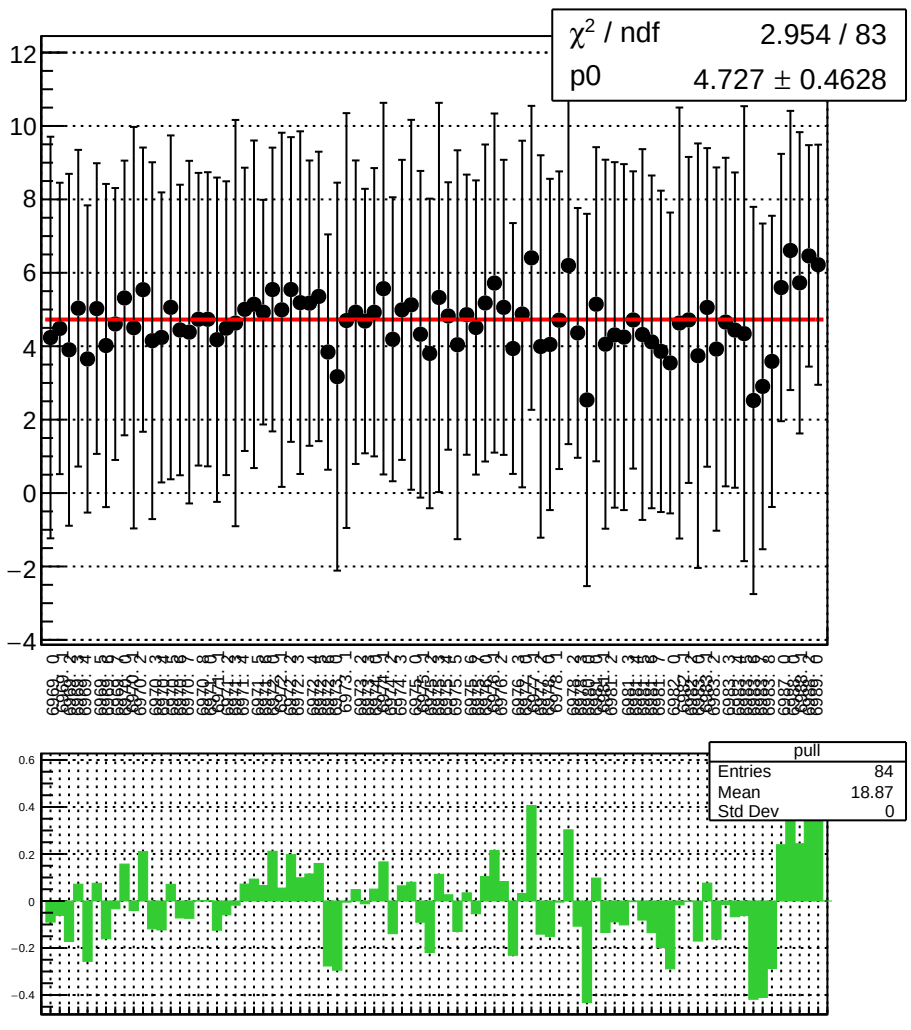

pull1D
Entries 84
Mean −0.008167
Std Dev 0.5425

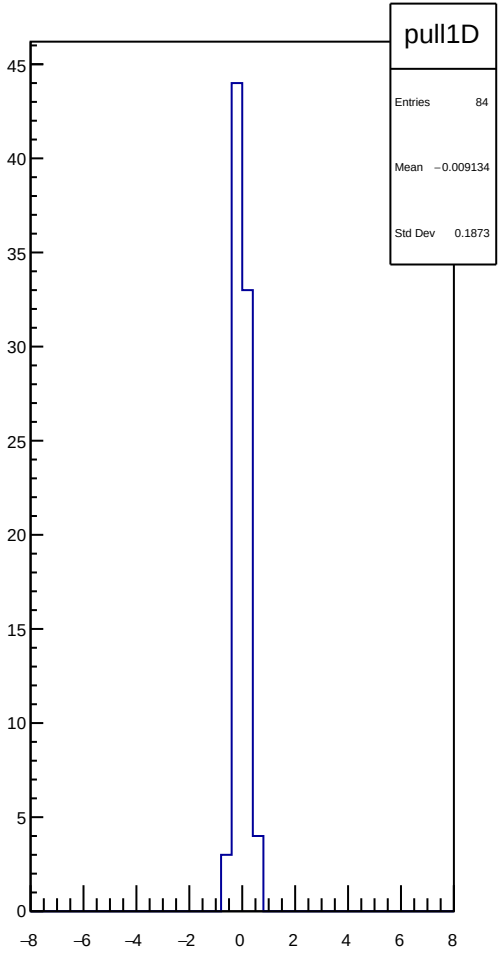

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.941 / 83
p0 −16.42 ± 0.6799
pull
Entries 84
Mean 65.84
Std Dev 0

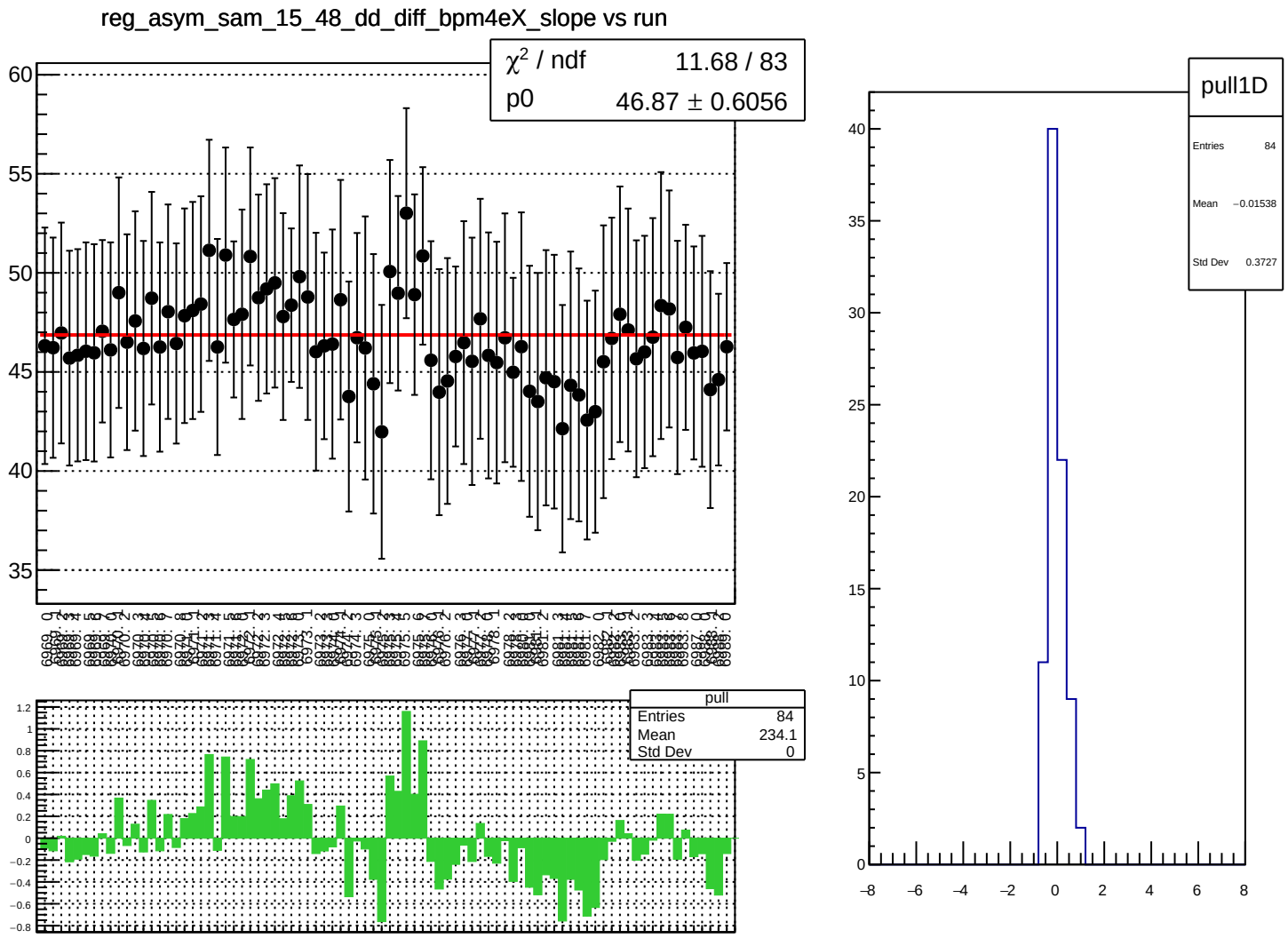

pull1D
Entries 84
Mean −0.01264
Std Dev 0.2162

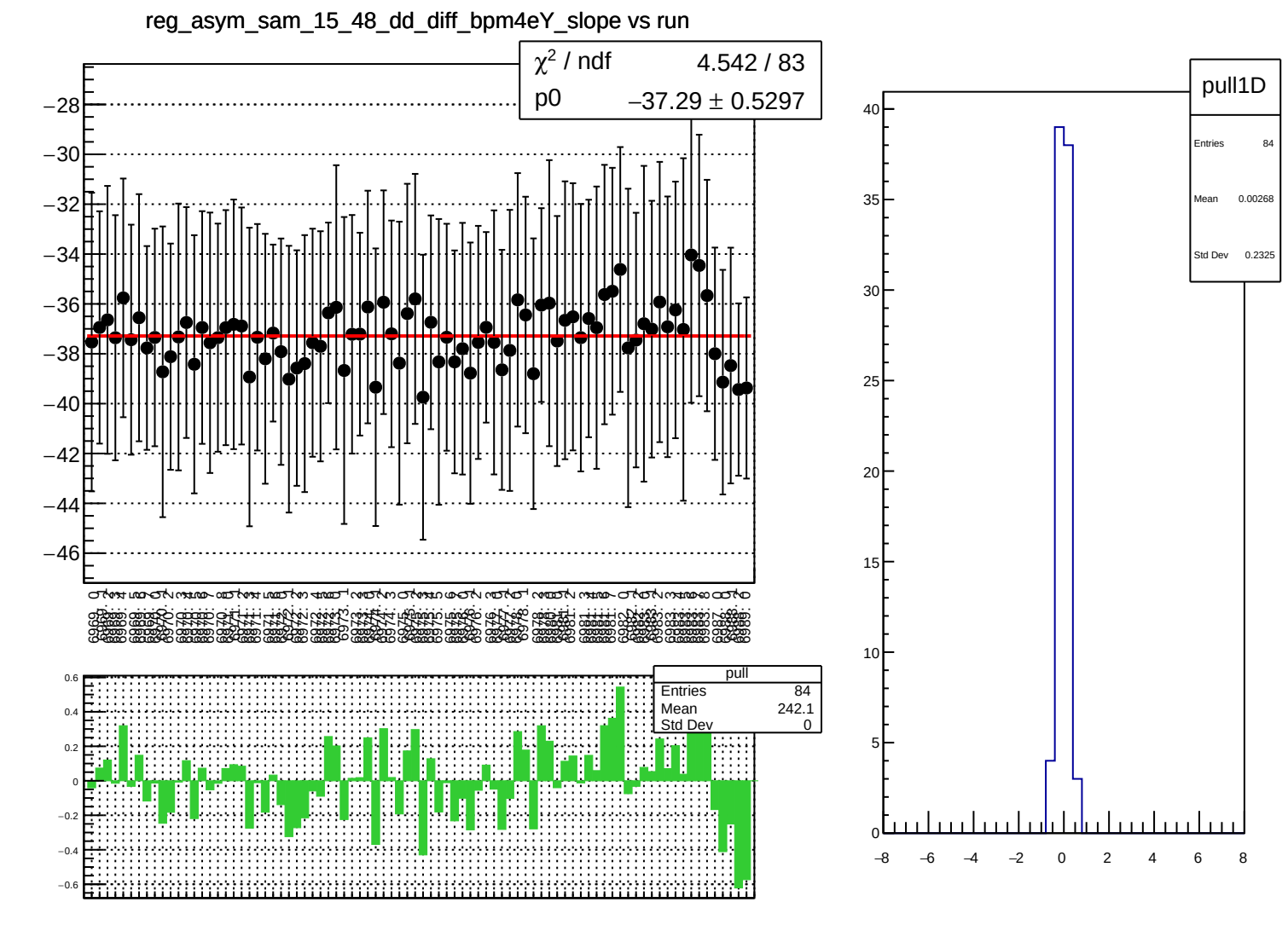

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 13.22 / 83
p0 0.6863 ± 0.02549
pull
Entries 84
Mean 568.3
Std Dev 0
pull1D
Entries 84
Mean −0.01049
Std Dev 0.3966

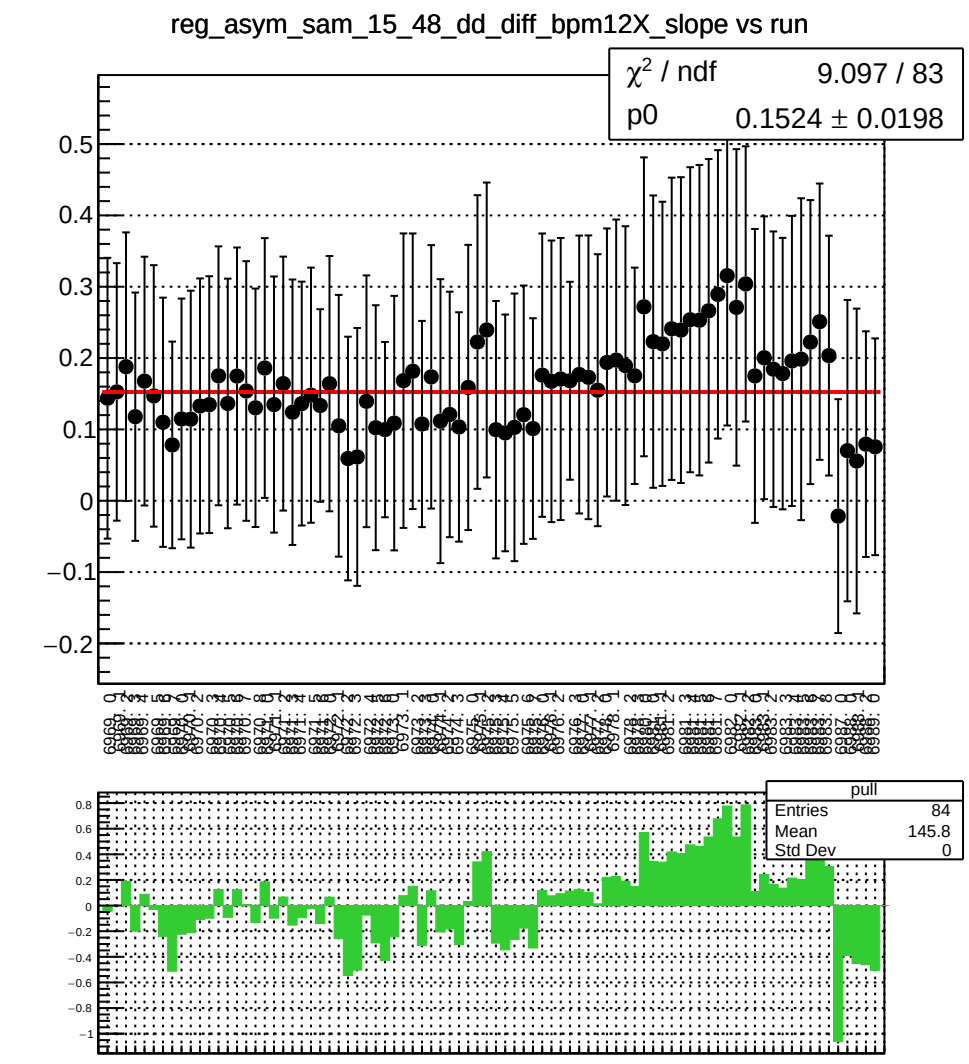

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 9.891 / 83
p0 8.383 ± 0.6599
pull
Entries 84
Mean 184.4
Std Dev 0
pull1D
Entries 84
Mean 0.01551
Std Dev 0.3428

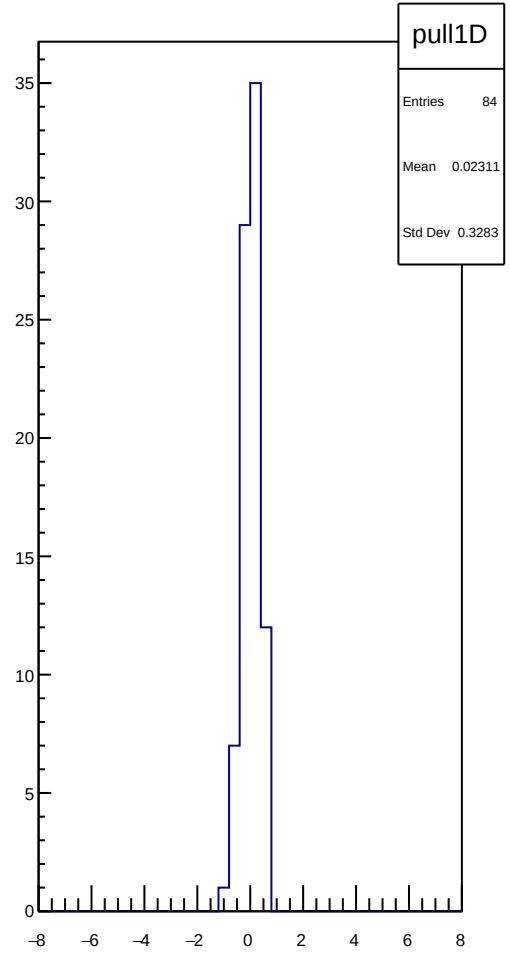

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.954 / 83
p0 4.727 ± 0.4628
pull
Entries 84
Mean 18.87
Std Dev 0

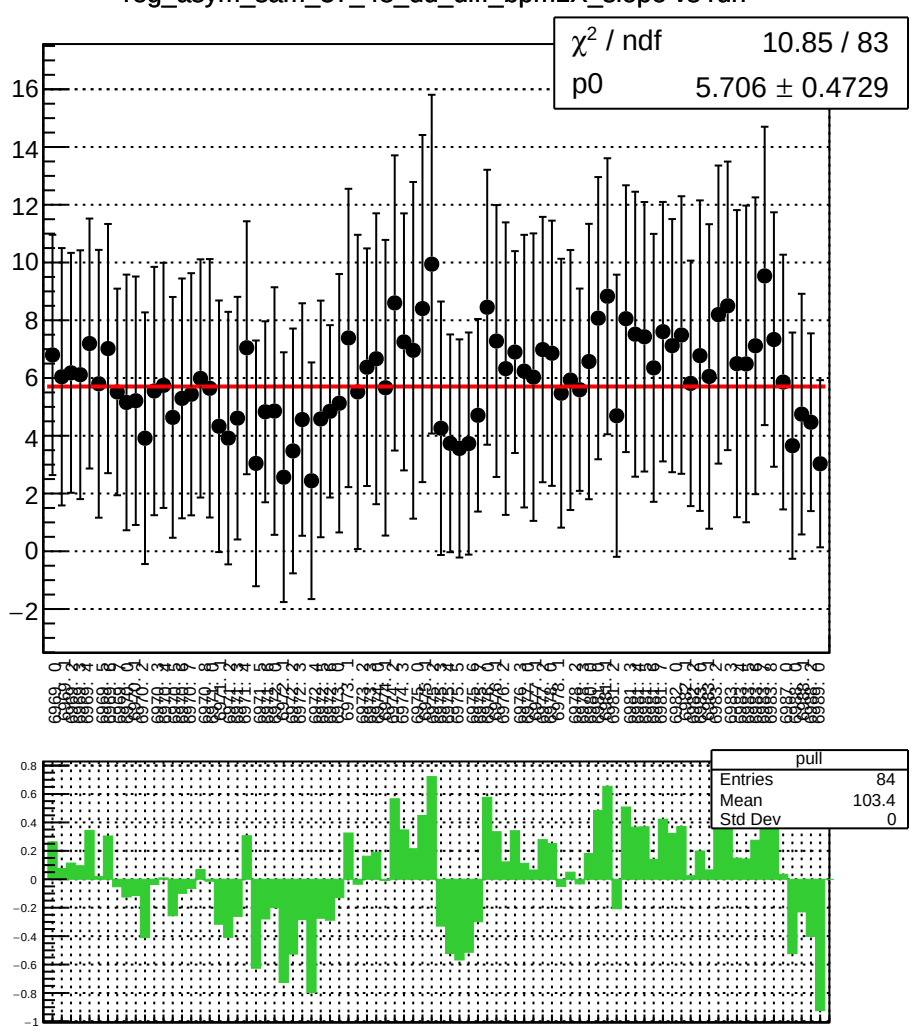

pull1D
Entries 84
Mean −0.009134
Std Dev 0.1873

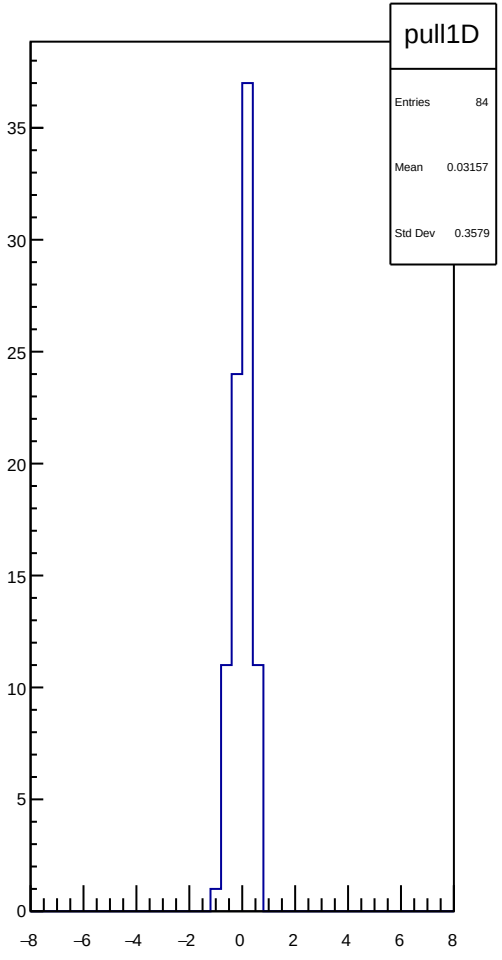

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.68 / 83
p0 46.87 ± 0.6056
pull
Entries 84
Mean 234.1
Std Dev 0
pull1D
Entries 84
Mean −0.01538
Std Dev 0.3727

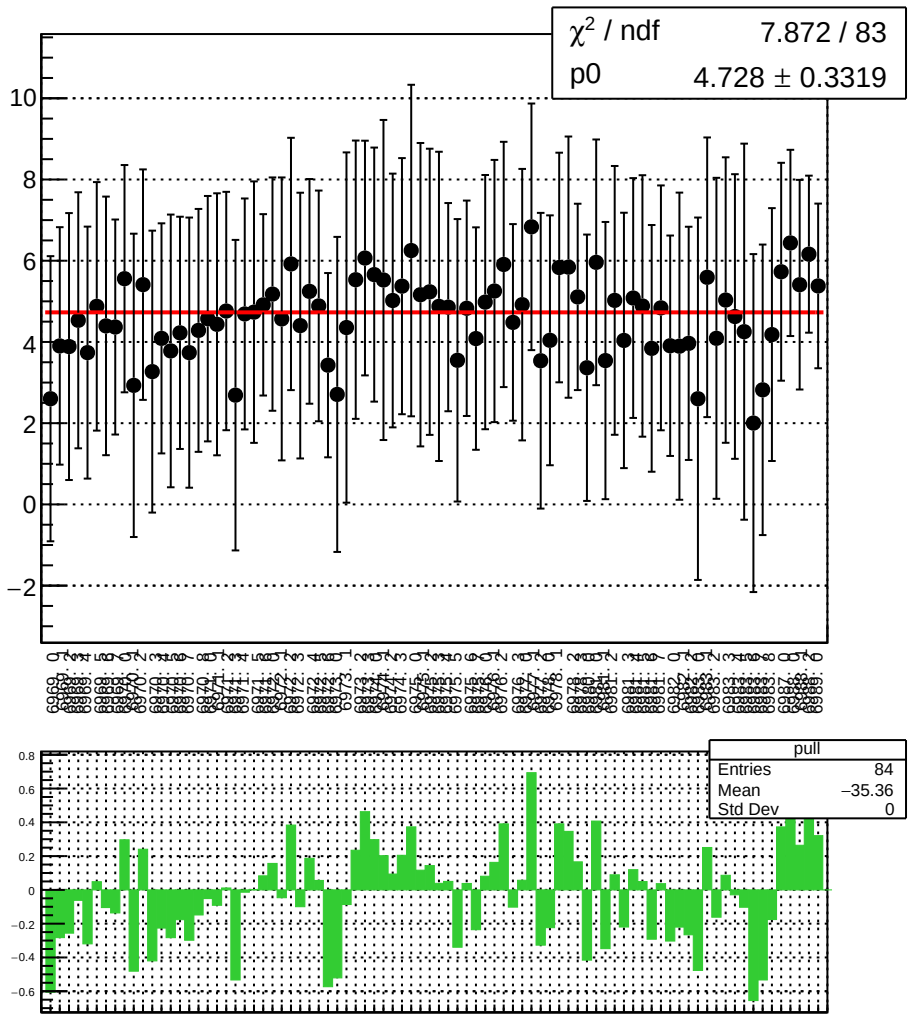

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.542 / 83
p0 −37.29 ± 0.5297
pull
Entries 84
Mean 242.1
Std Dev 0
pull1D
Entries 84
Mean 0.00268
Std Dev 0.2325

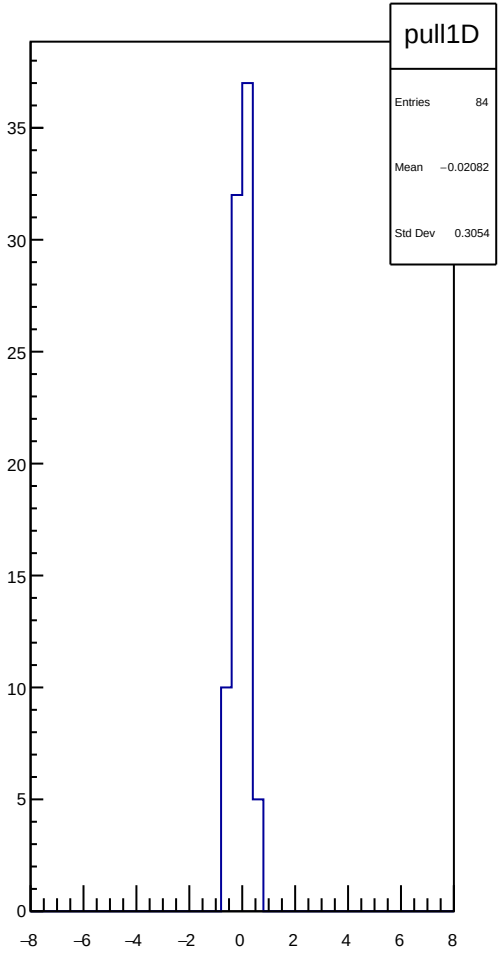

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.097 / 83
p0 0.1524 ± 0.0198
pull
Entries 84
Mean 145.8
Std Dev 0

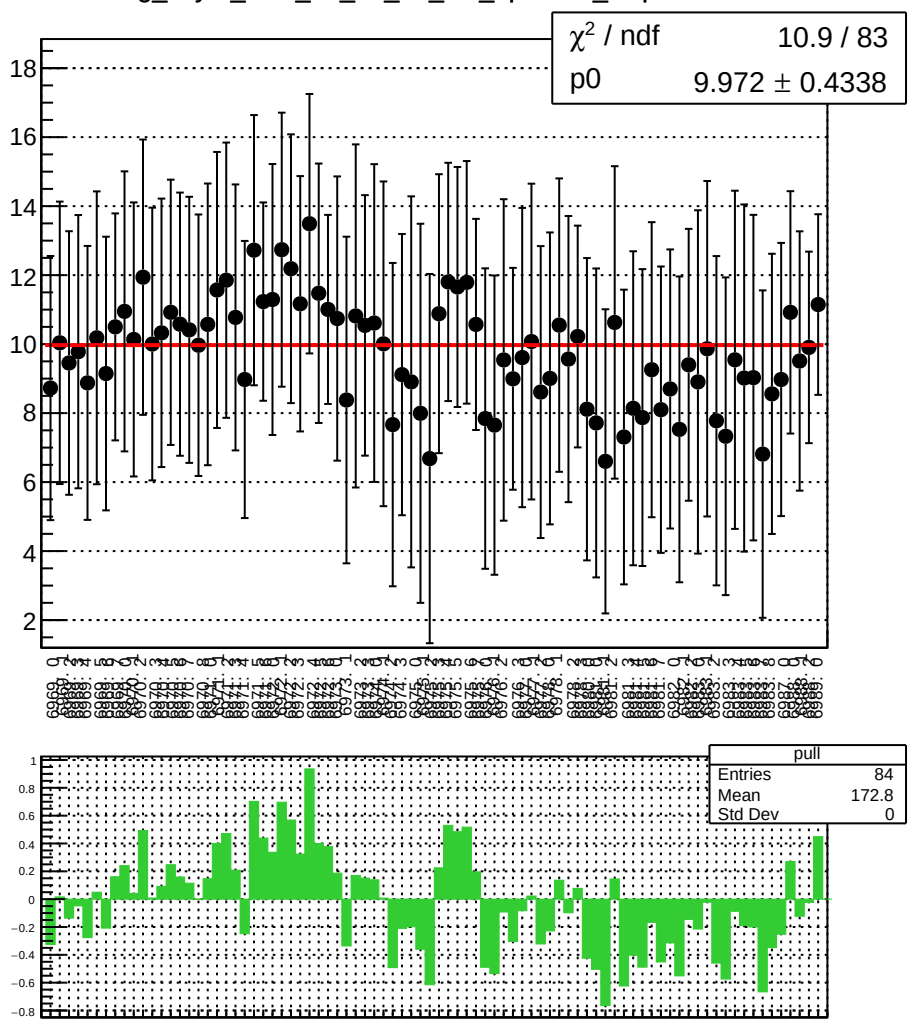

pull1D
Entries 84
Mean 0.02311
Std Dev 0.3283

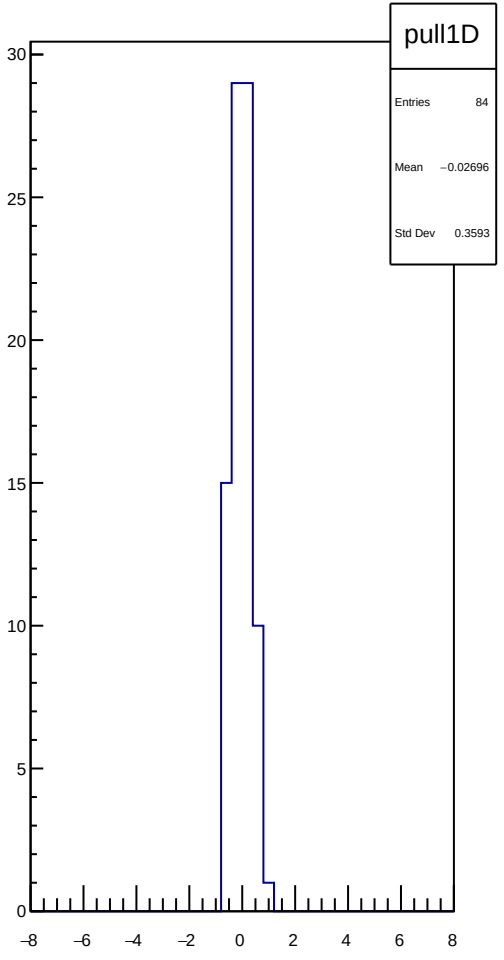

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 10.85 / 83
p0 5.706 ± 0.4729
pull
Entries 84
Mean 103.4
Std Dev 0

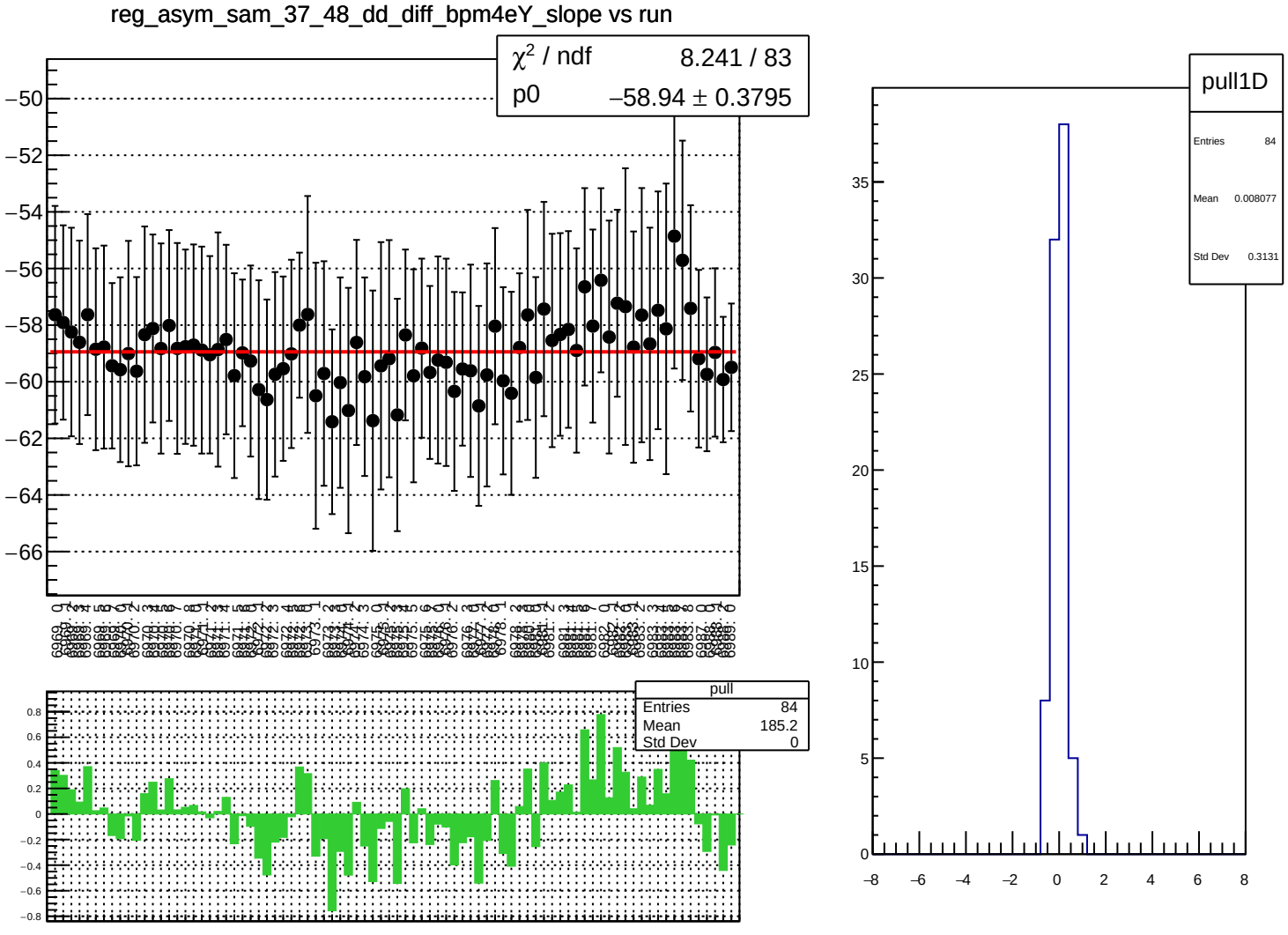

pull1D
Entries 84
Mean 0.03157
Std Dev 0.3579

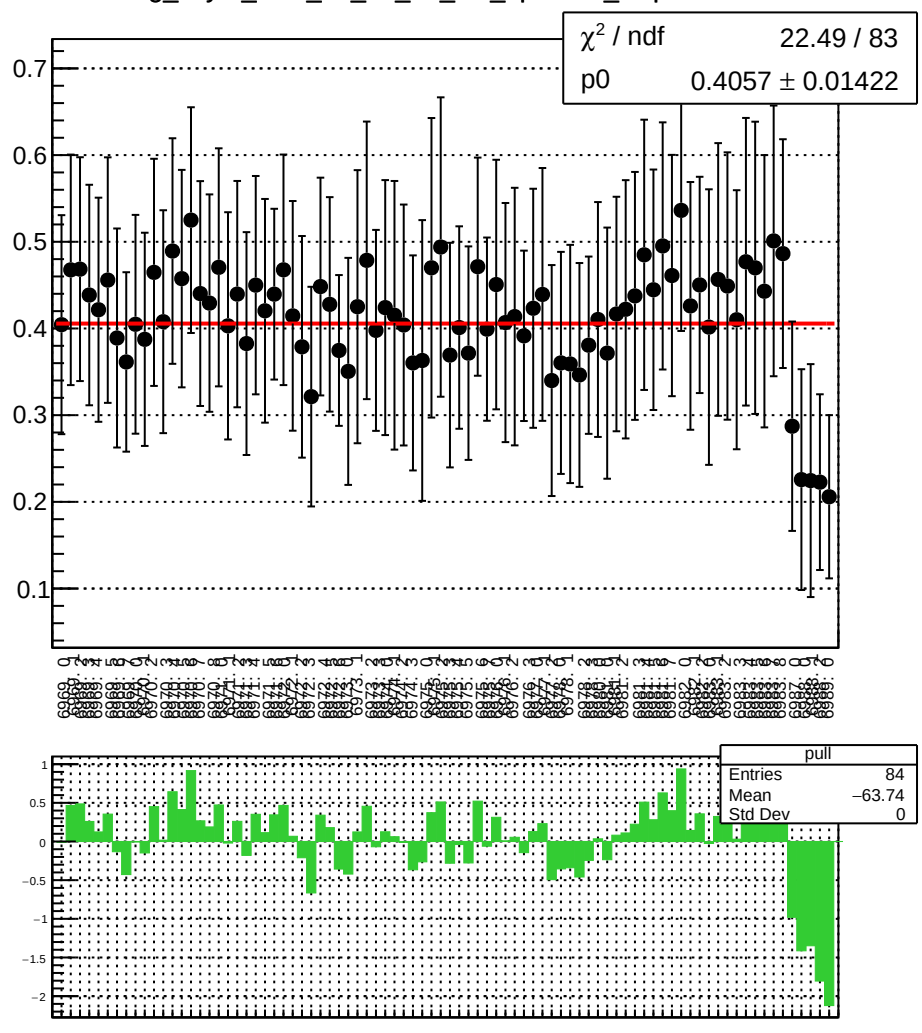

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.872 / 83
p0 4.728 ± 0.3319
pull
Entries 84
Mean −35.36
Std Dev 0

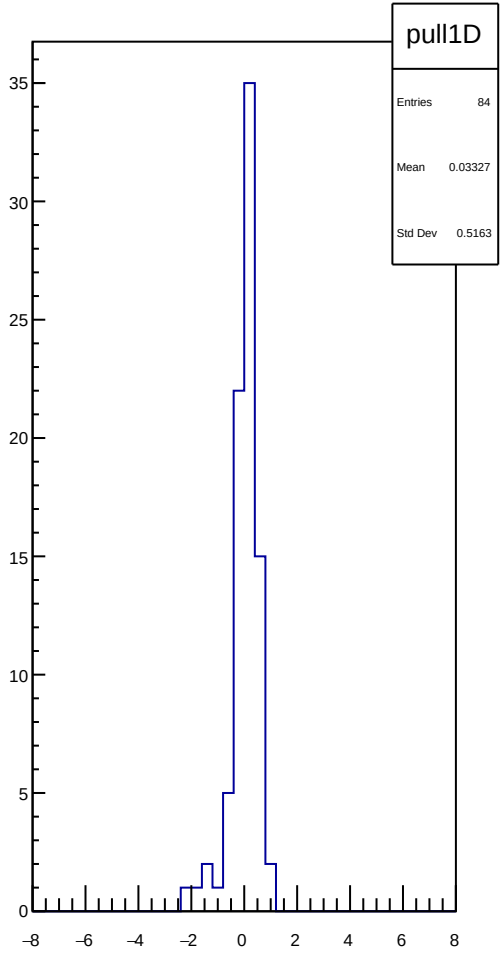

pull1D
Entries 84
Mean −0.02082
Std Dev 0.3054

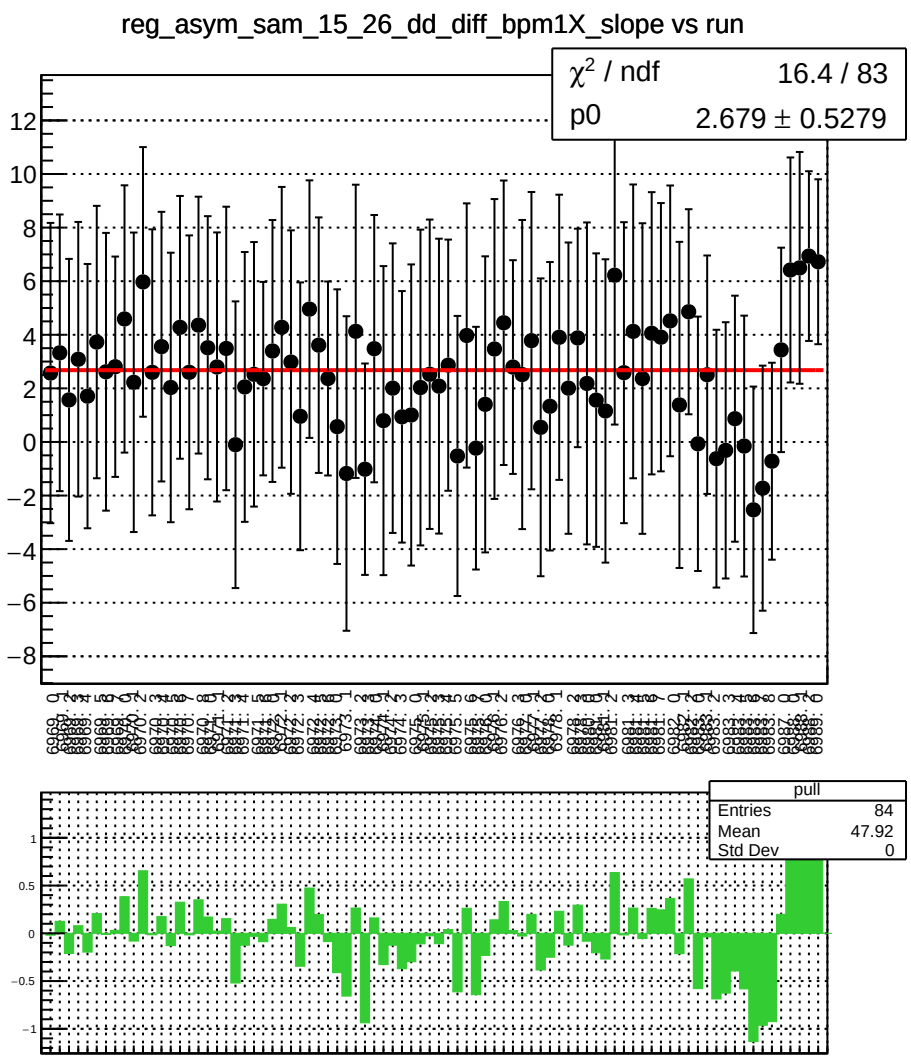

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.9 / 83
p0 9.972 ± 0.4338
pull
Entries 84
Mean 172.8
Std Dev 0

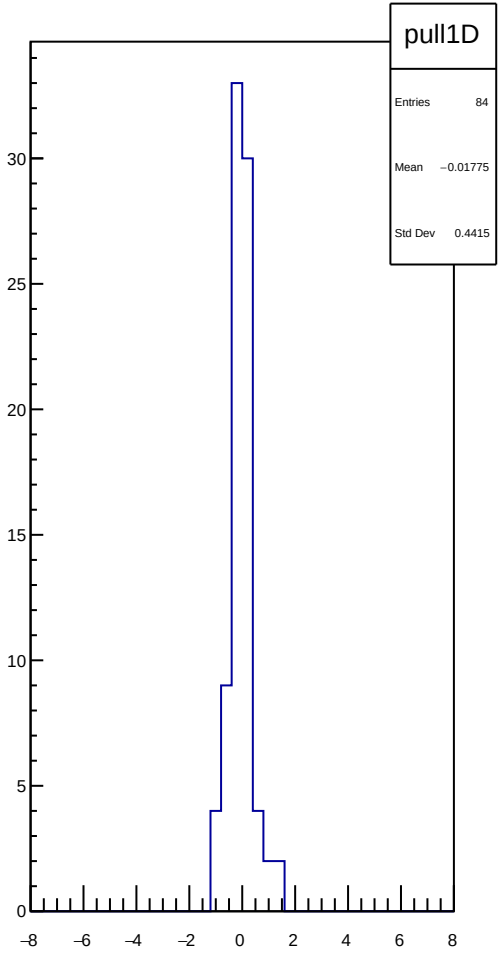

pull1D
Entries 84
Mean −0.02696
Std Dev 0.3593

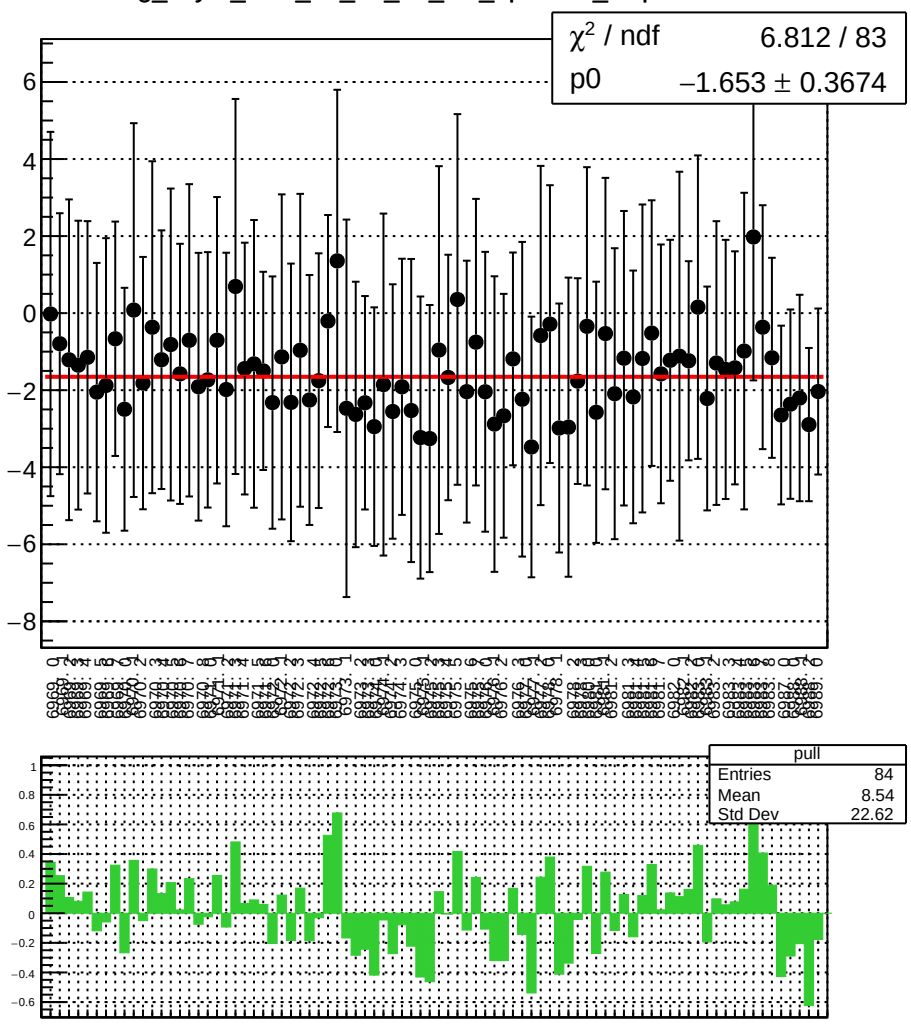

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.241 / 83
p0 −58.94 ± 0.3795
pull
Entries 84
Mean 185.2
Std Dev 0
pull1D
Entries 84
Mean 0.008077
Std Dev 0.3131

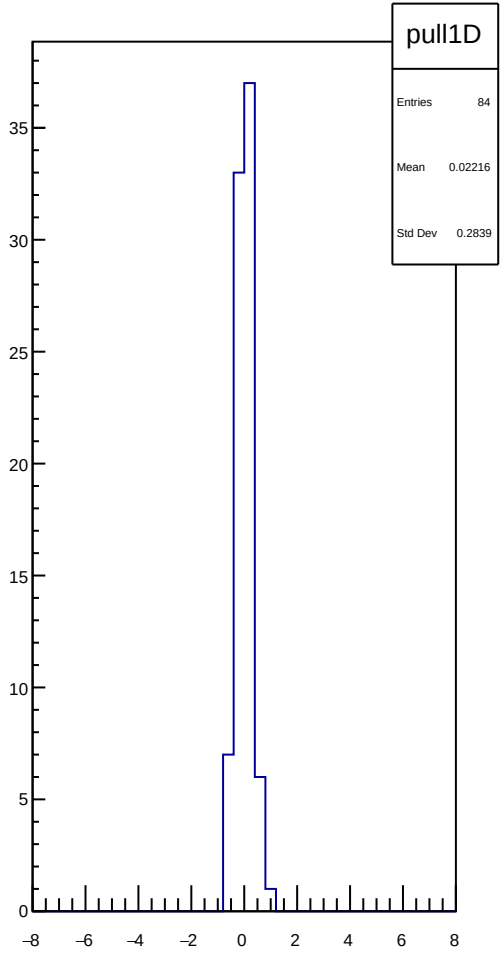

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 22.49 / 83
p0 0.4057 ± 0.01422
pull
Entries 84
Mean −63.74
Std Dev 0

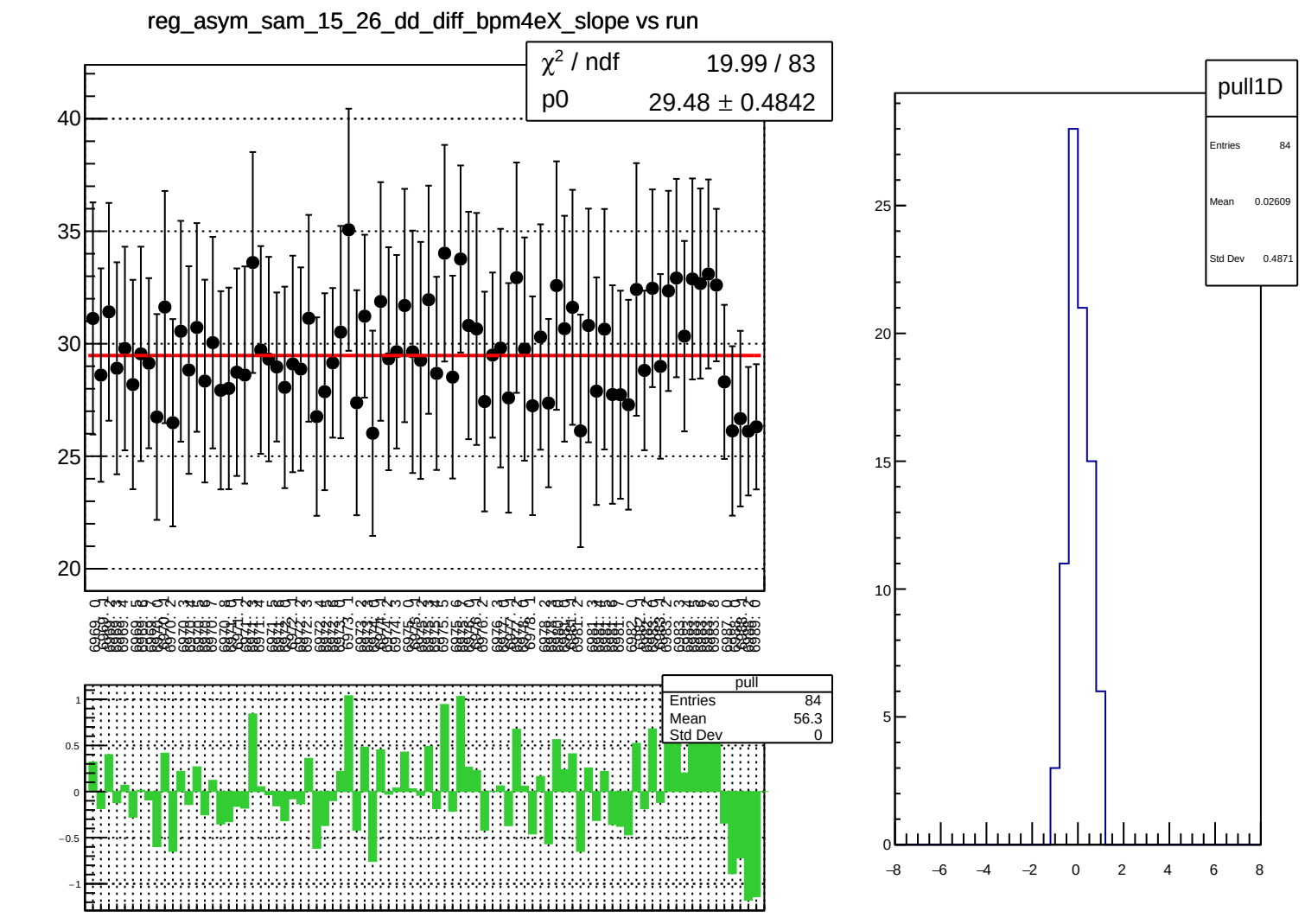

pull1D
Entries 84
Mean 0.03327
Std Dev 0.5163

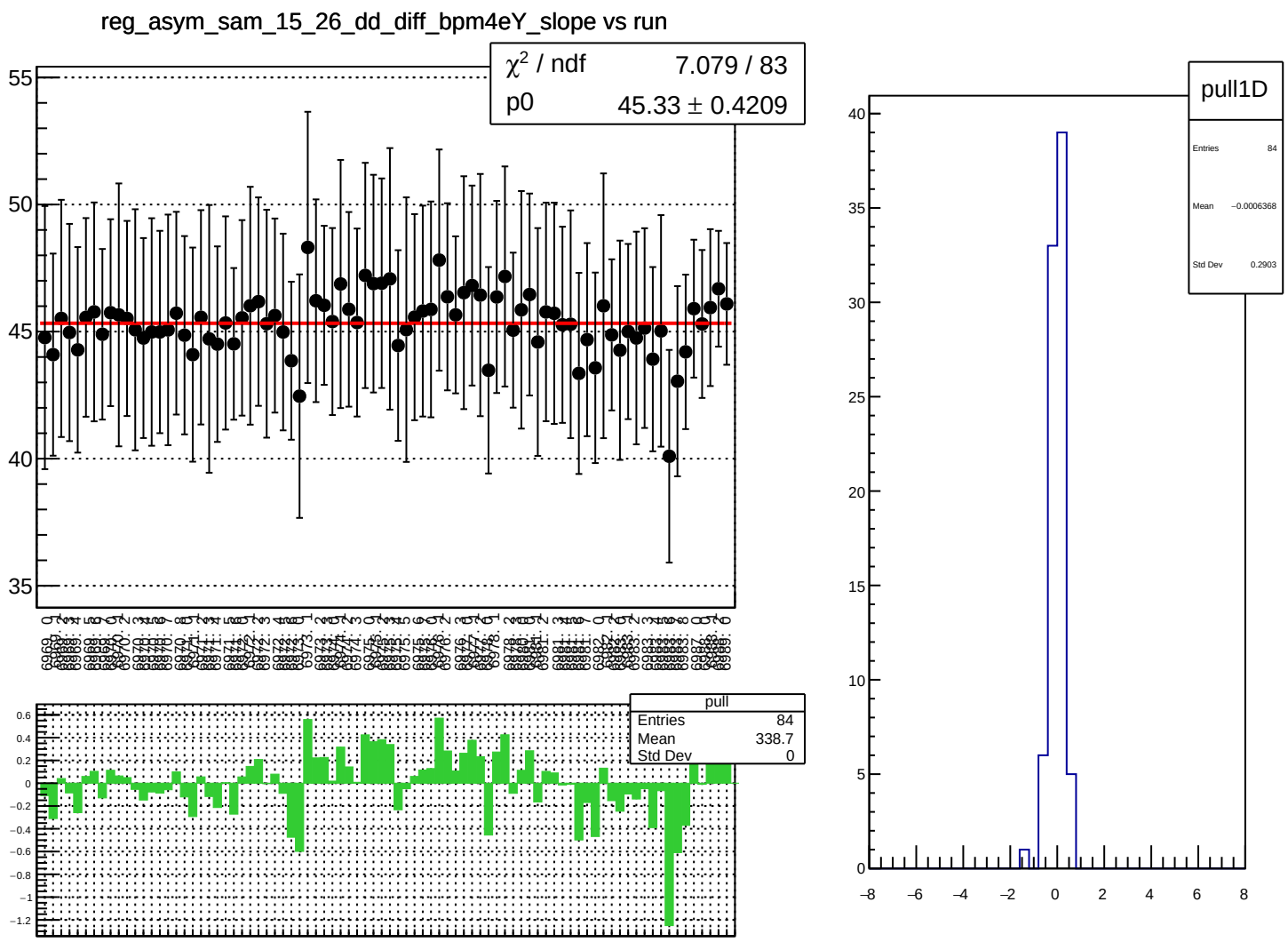

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 16.4 / 83
p0 2.679 ± 0.5279
pull
Entries 84
Mean 47.92
Std Dev 0

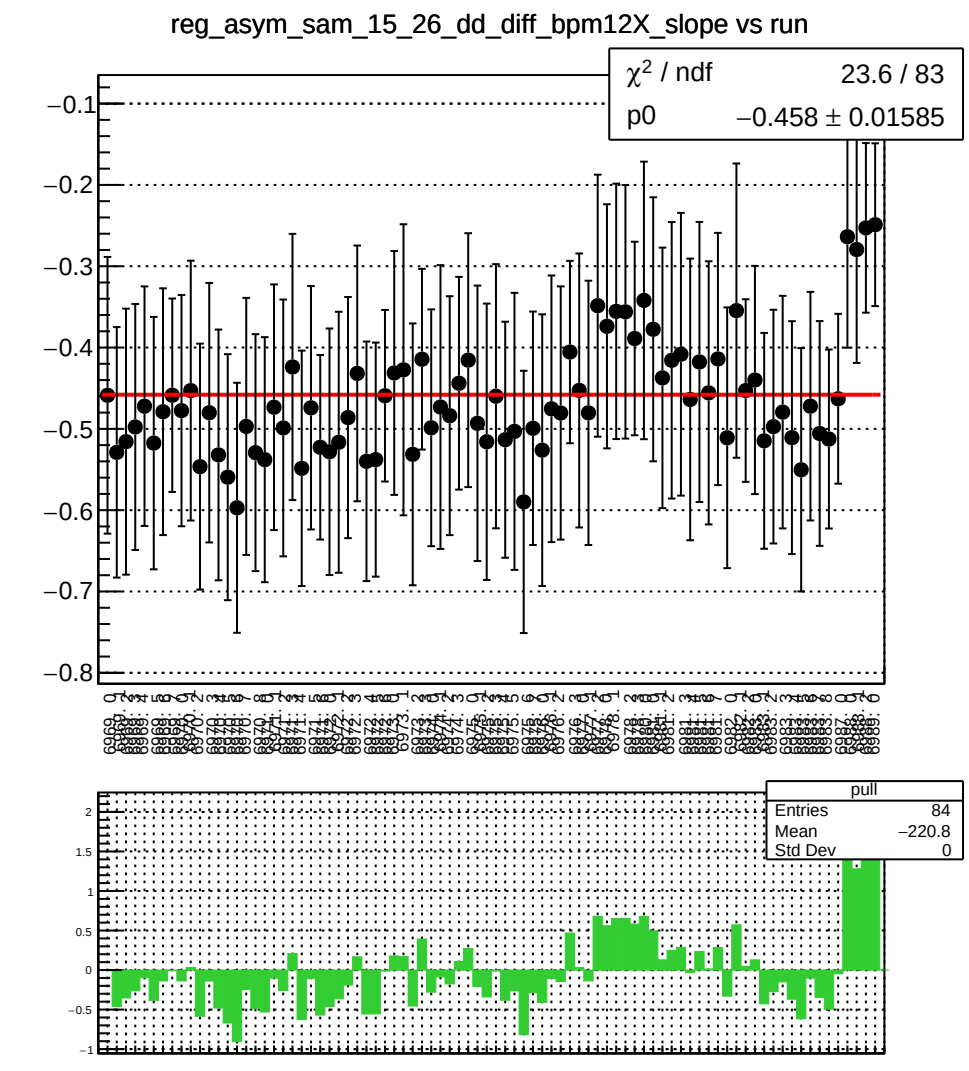

pull1D
Entries 84
Mean −0.01775
Std Dev 0.4415

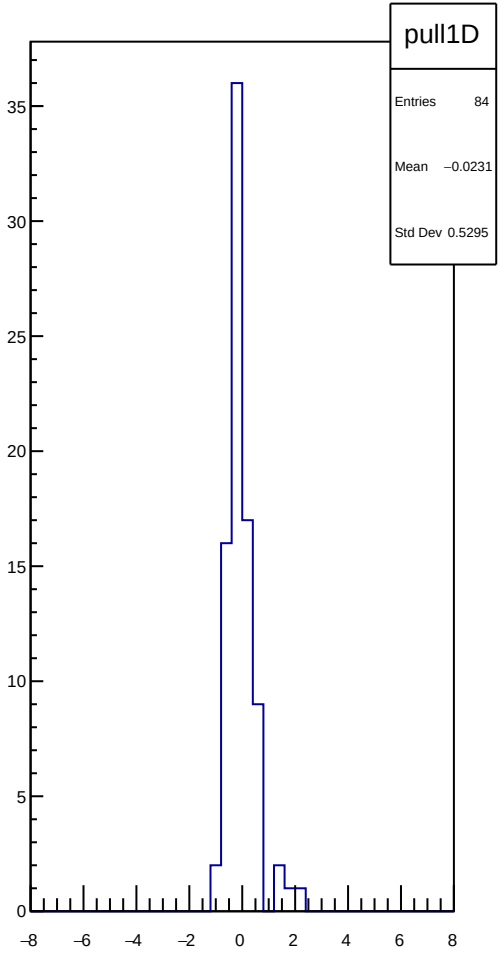

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.812 / 83
p0 −1.653 ± 0.3674
pull
Entries 84
Mean 8.54
Std Dev 22.62

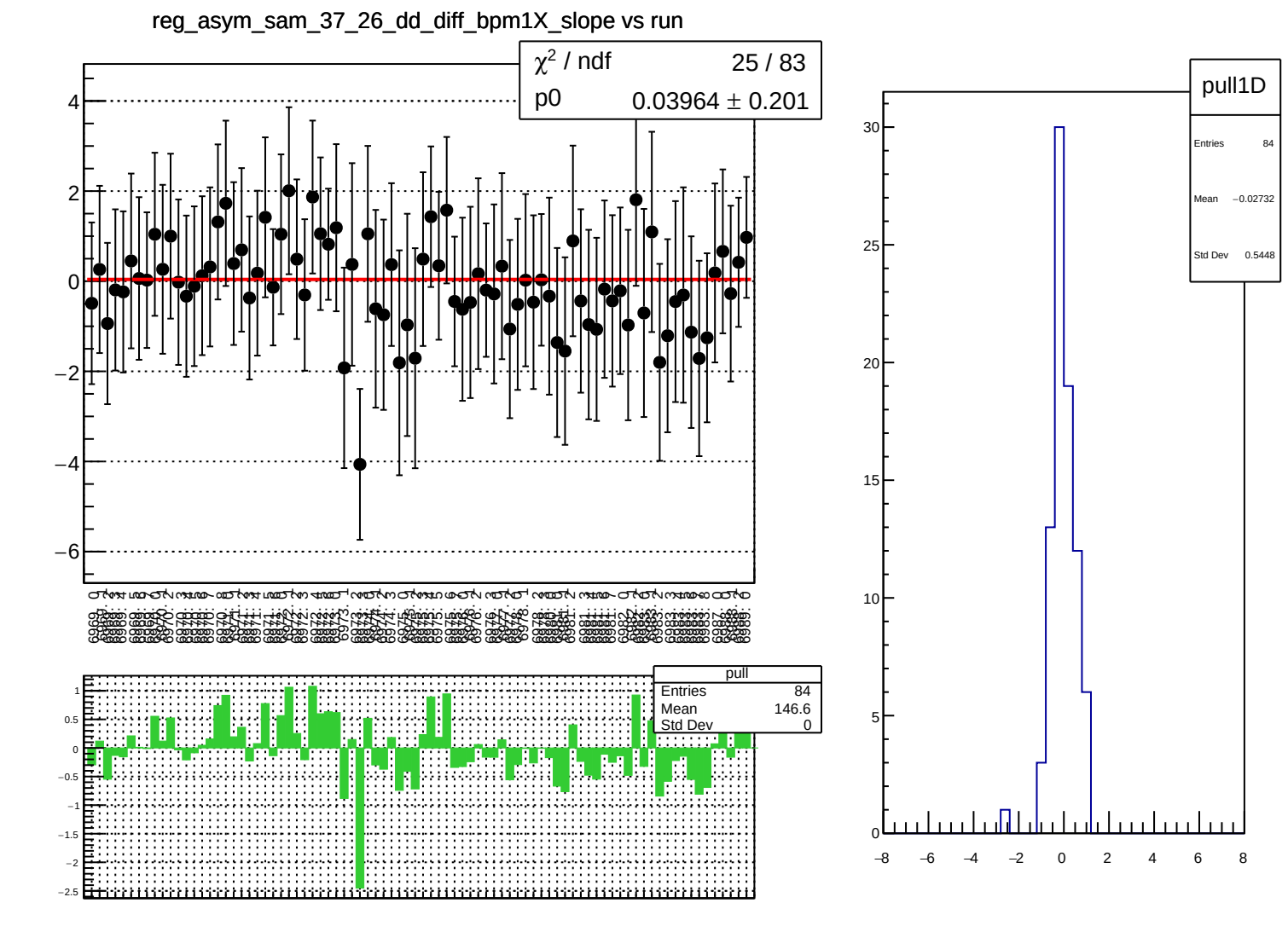

pull1D
Entries 84
Mean 0.02216
Std Dev 0.2839

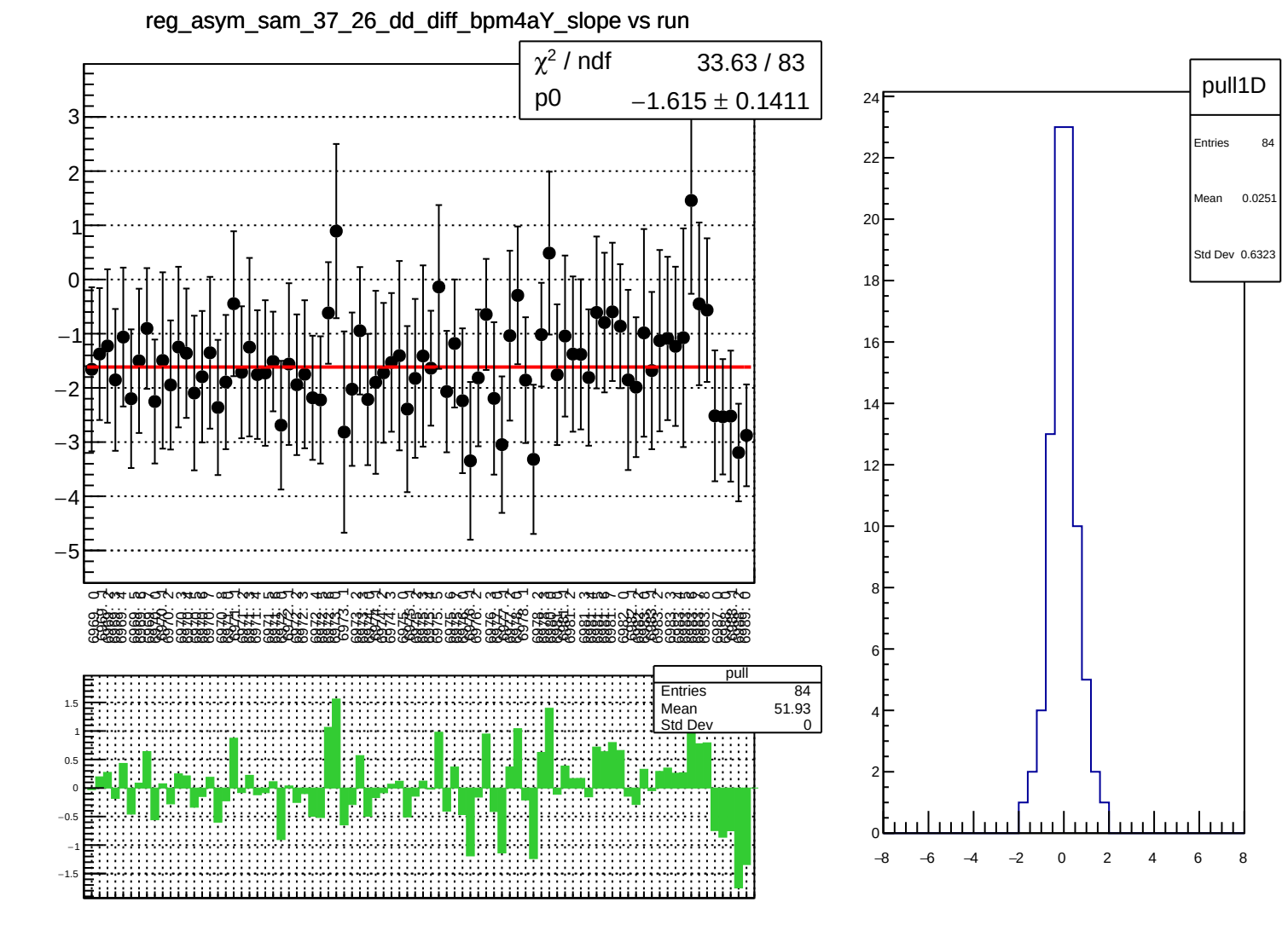

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.99 / 83
p0 29.48 ± 0.4842
pull
Entries 84
Mean 56.3
Std Dev 0
pull1D
Entries 84
Mean 0.02609
Std Dev 0.4871

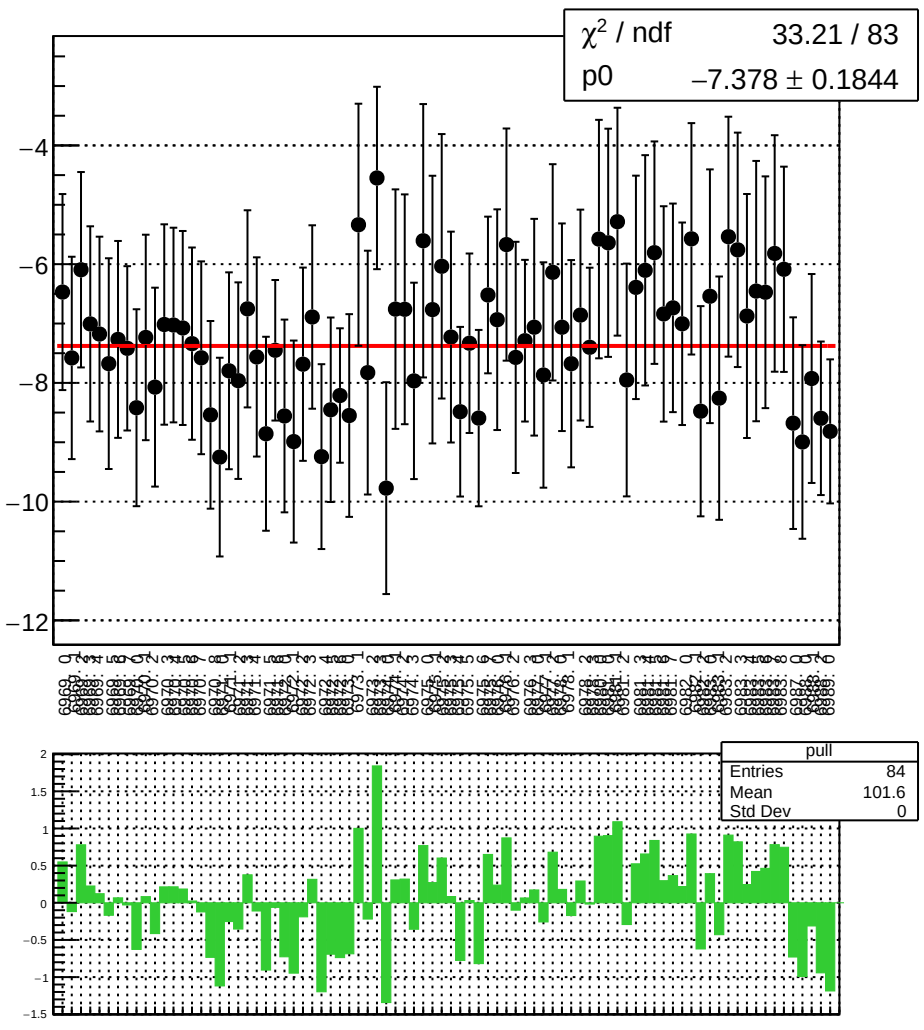

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.079 / 83
p0 45.33 ± 0.4209
pull
Entries 84
Mean 338.7
Std Dev 0
pull1D
Entries 84
Mean −0.0006368
Std Dev 0.2903

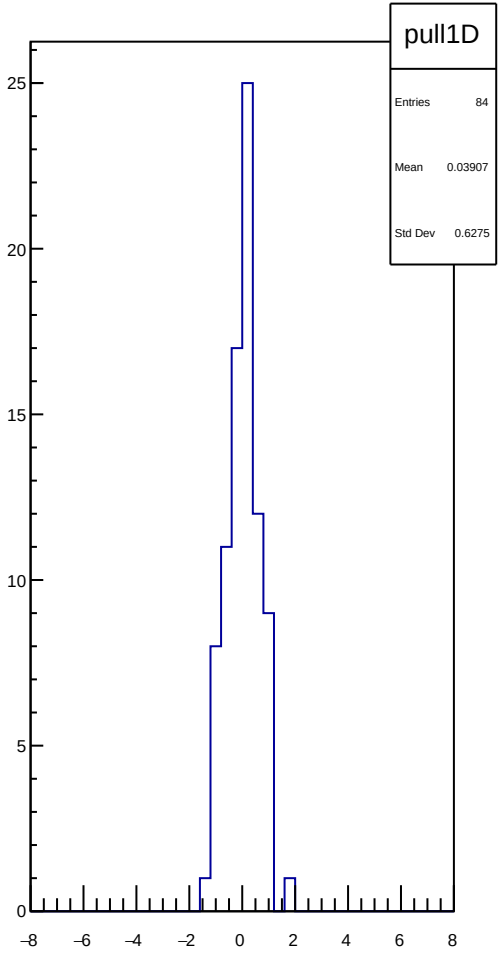

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 23.6 / 83
p0 −0.458 ± 0.01585
pull
Entries 84
Mean −220.8
Std Dev 0

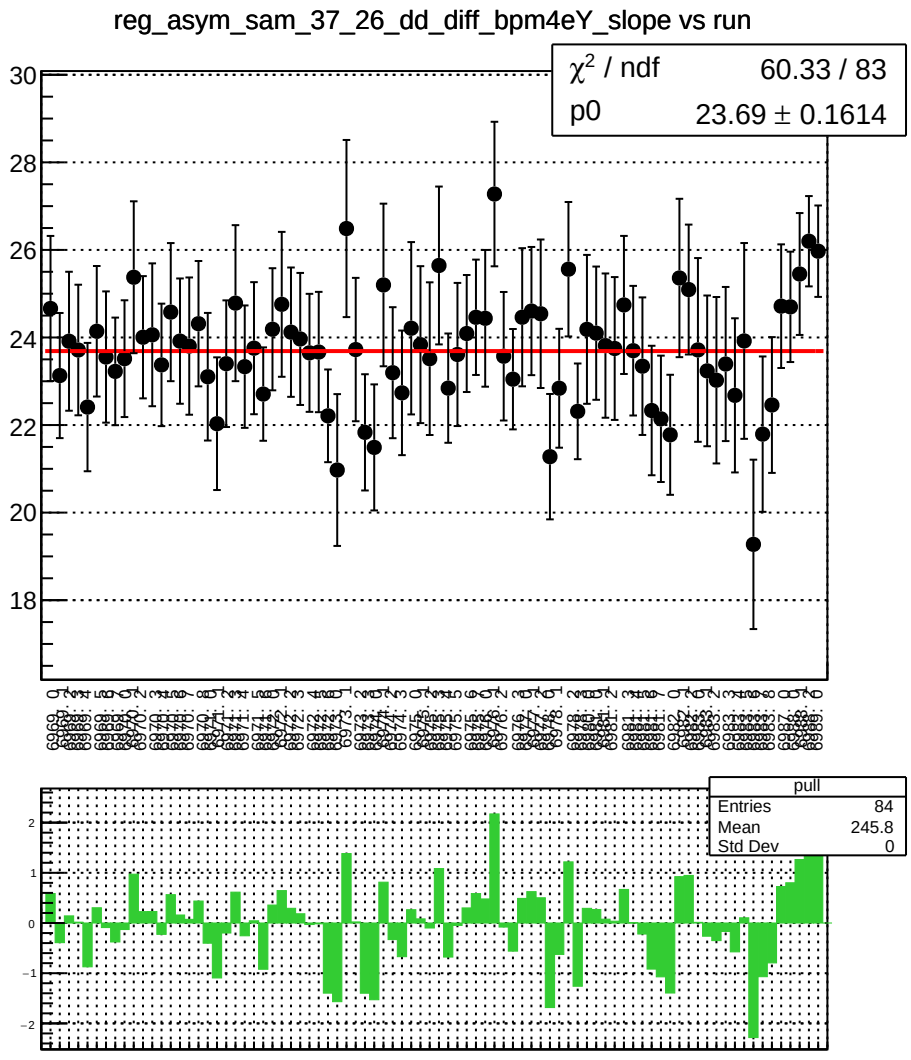

pull1D
Entries 84
Mean −0.0231
Std Dev 0.5295

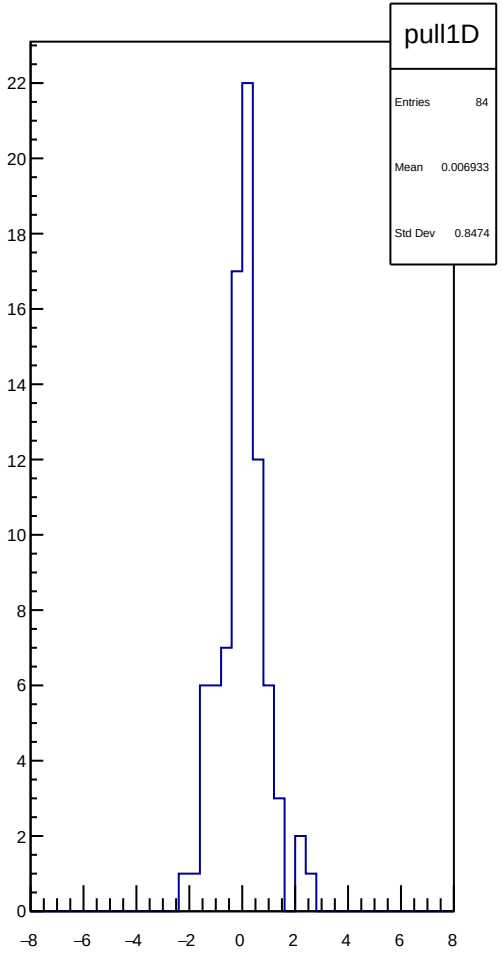

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 25 / 83
p0 0.03964 ± 0.201
pull
Entries 84
Mean 146.6
Std Dev 0
pull1D
Entries 84
Mean −0.02732
Std Dev 0.5448

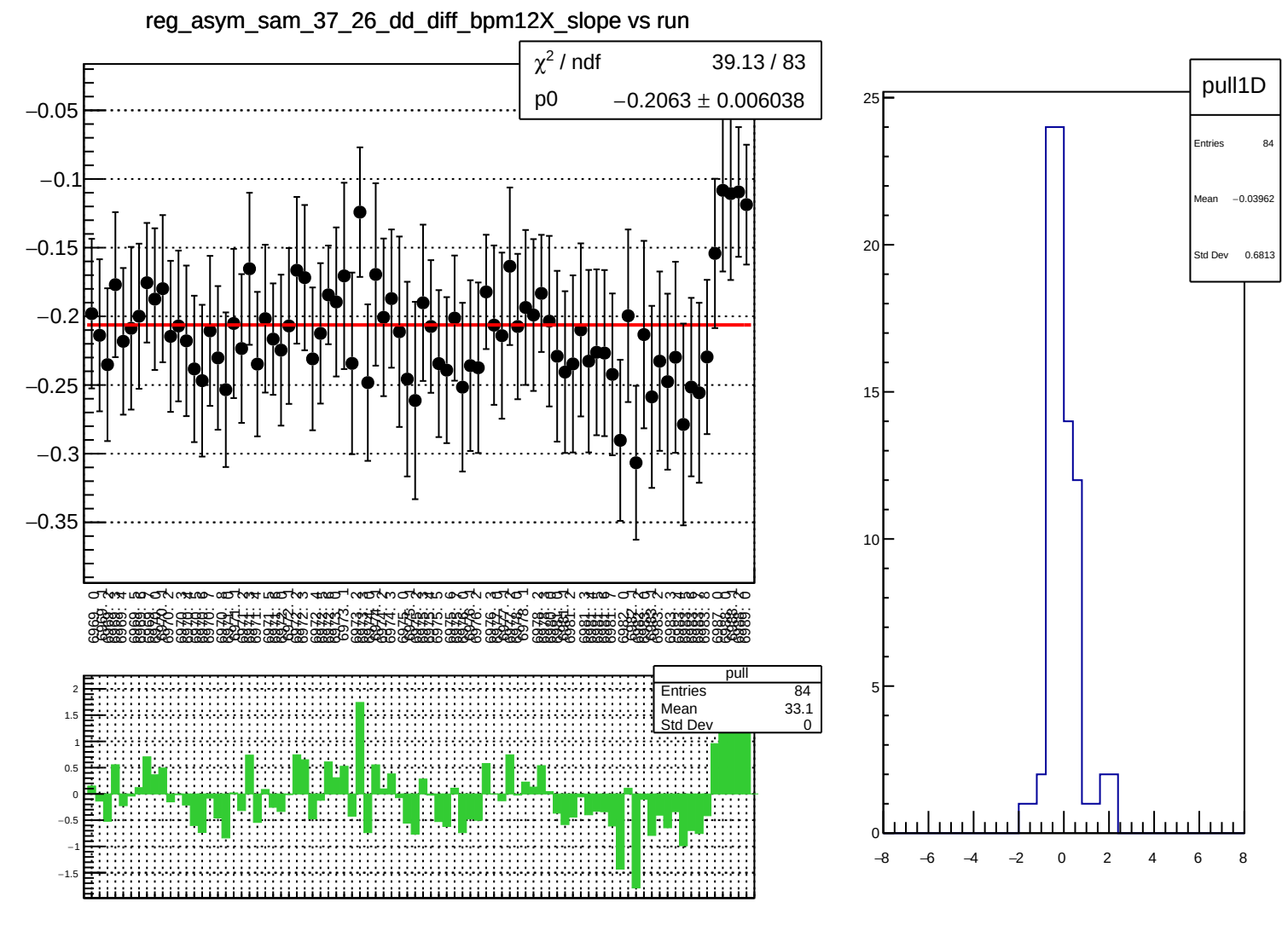

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.63 / 83
p0 −1.615 ± 0.1411
pull
Entries 84
Mean 51.93
Std Dev 0
pull1D
Entries 84
Mean 0.0251
Std Dev 0.6323

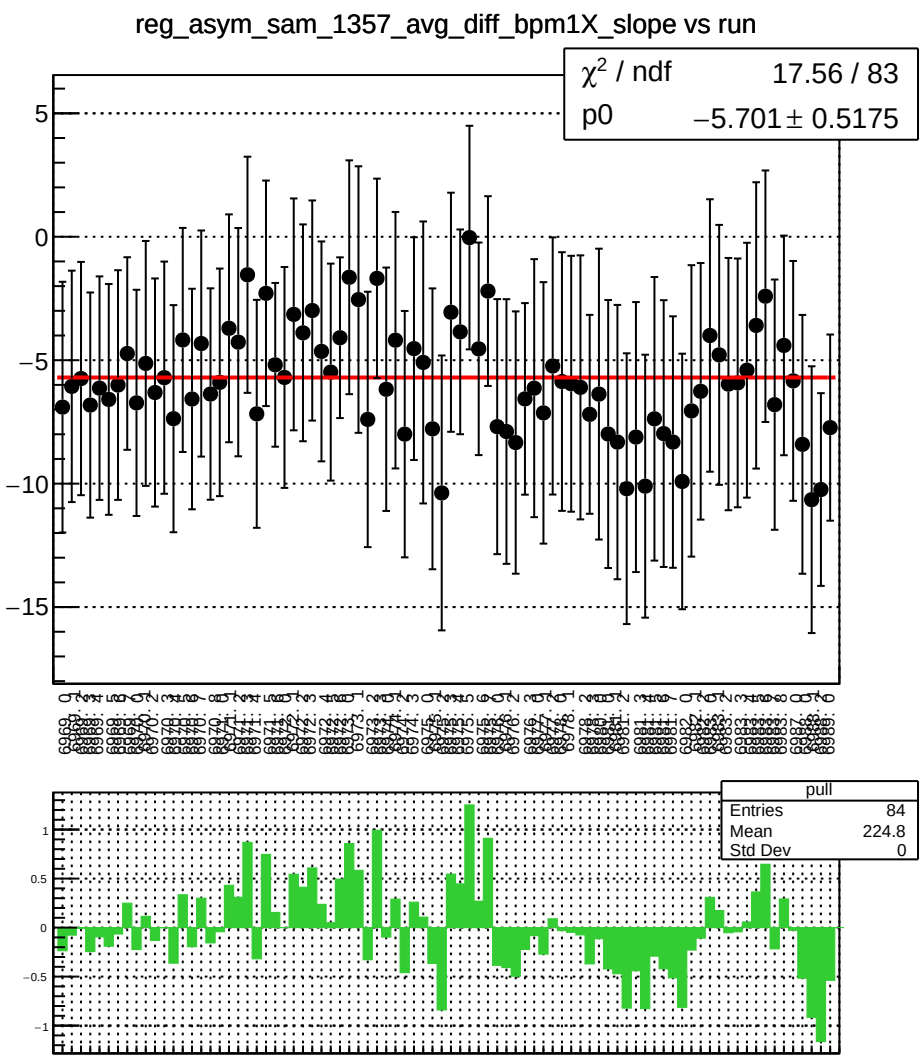

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.21 / 83
p0 −7.378 ± 0.1844
pull
Entries 84
Mean 101.6
Std Dev 0

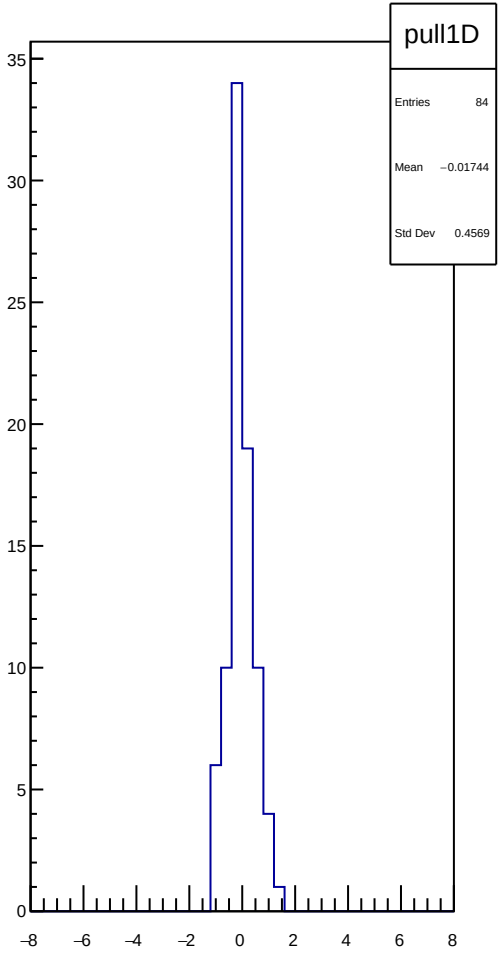

pull1D
Entries 84
Mean 0.03907
Std Dev 0.6275

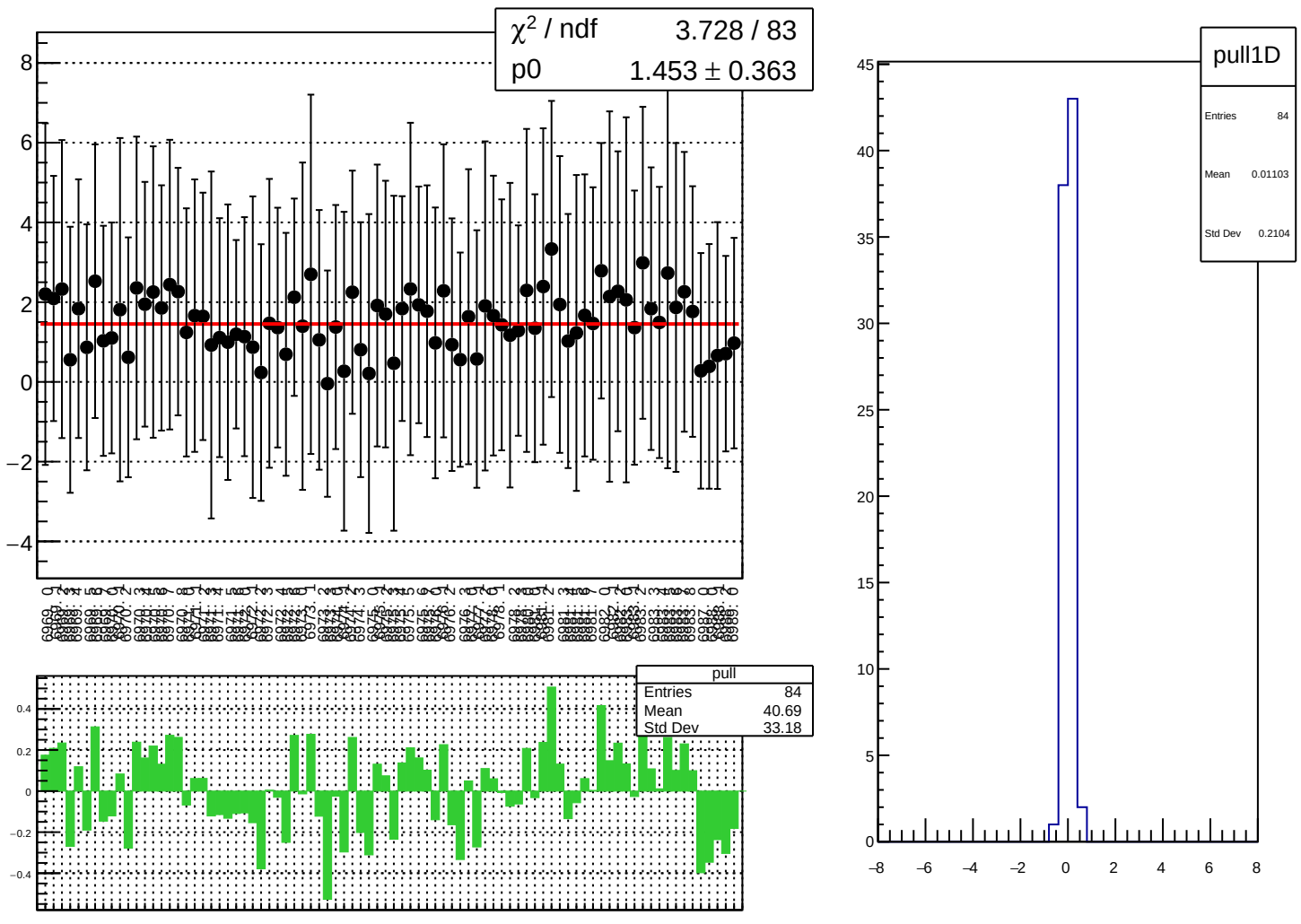

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.33 / 83
p0 23.69 ± 0.1614
pull
Entries 84
Mean 245.8
Std Dev 0

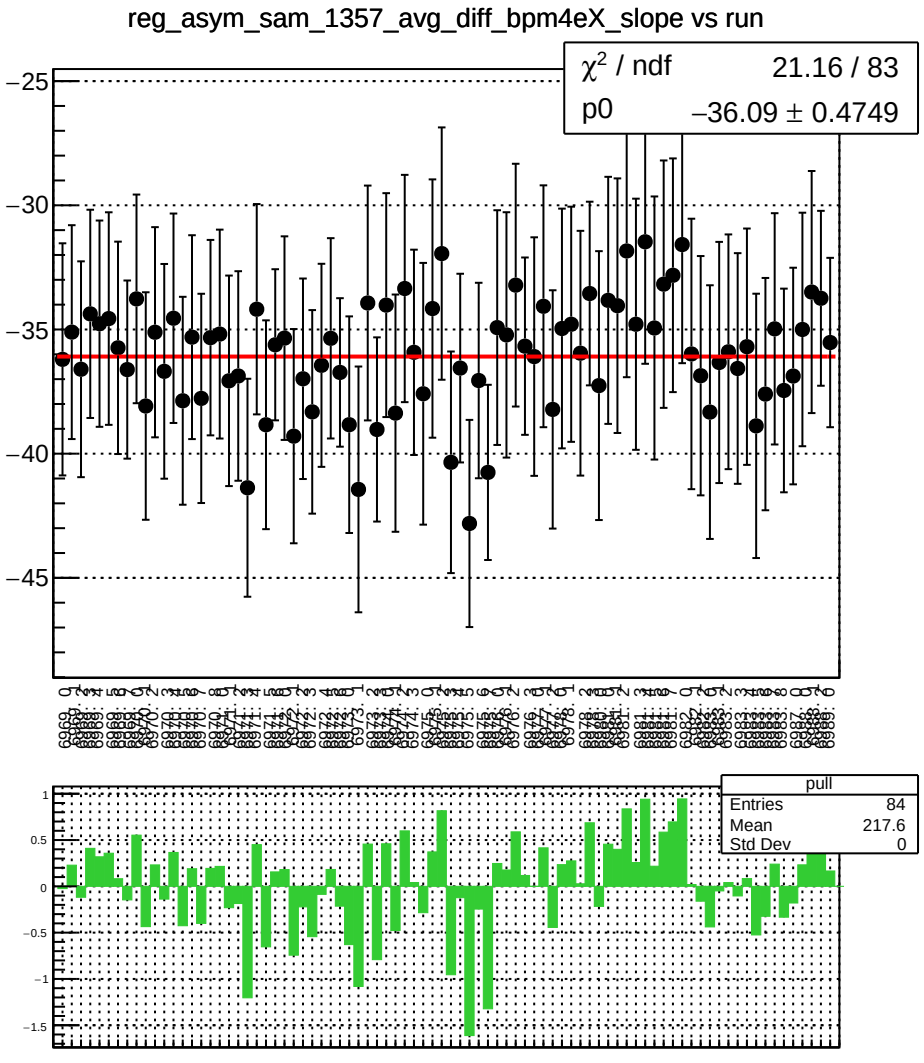

pull1D
Entries 84
Mean 0.006933
Std Dev 0.8474

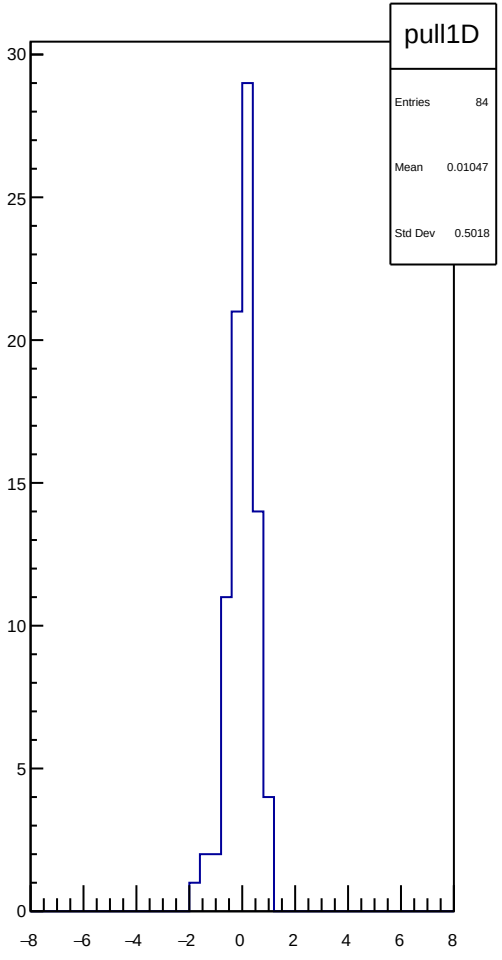

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 39.13 / 83
p0 −0.2063 ± 0.006038
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 84
Mean 33.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.03962
Std Dev 0.6813
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

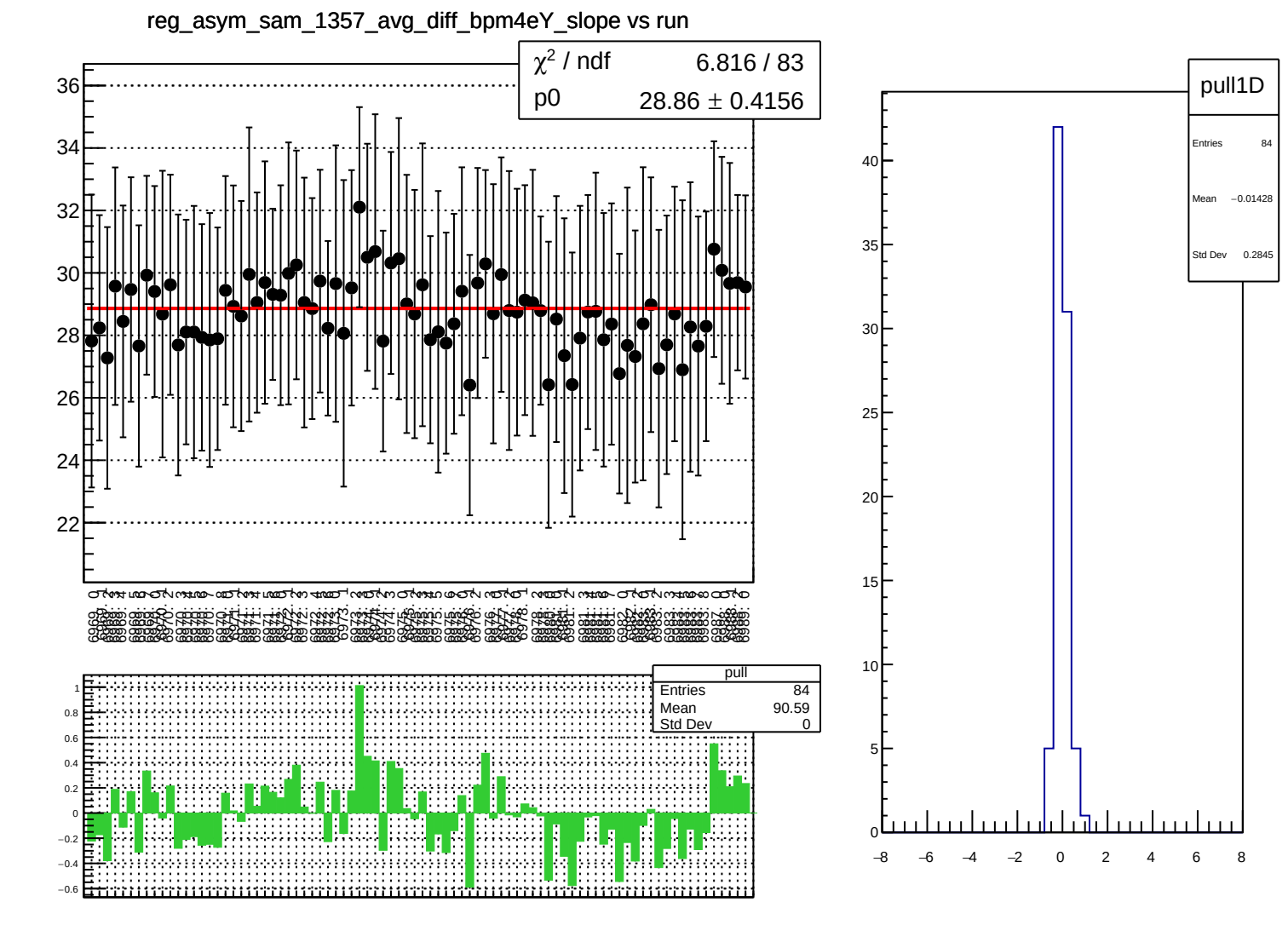

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 17.56 / 83
p0 −5.701 ± 0.5175
pull
Entries 84
Mean 224.8
Std Dev 0

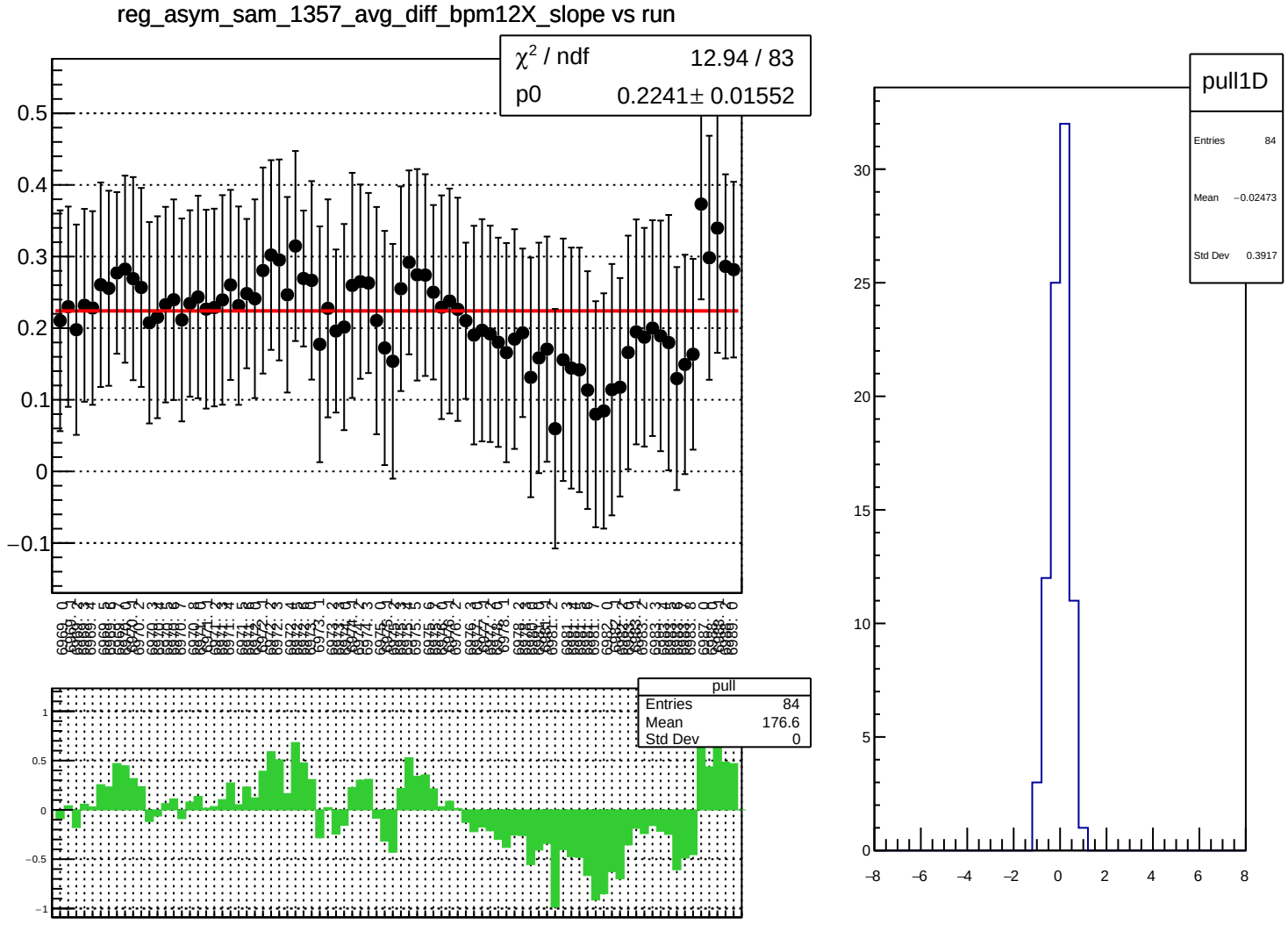

pull1D
Entries 84
Mean −0.01744
Std Dev 0.4569

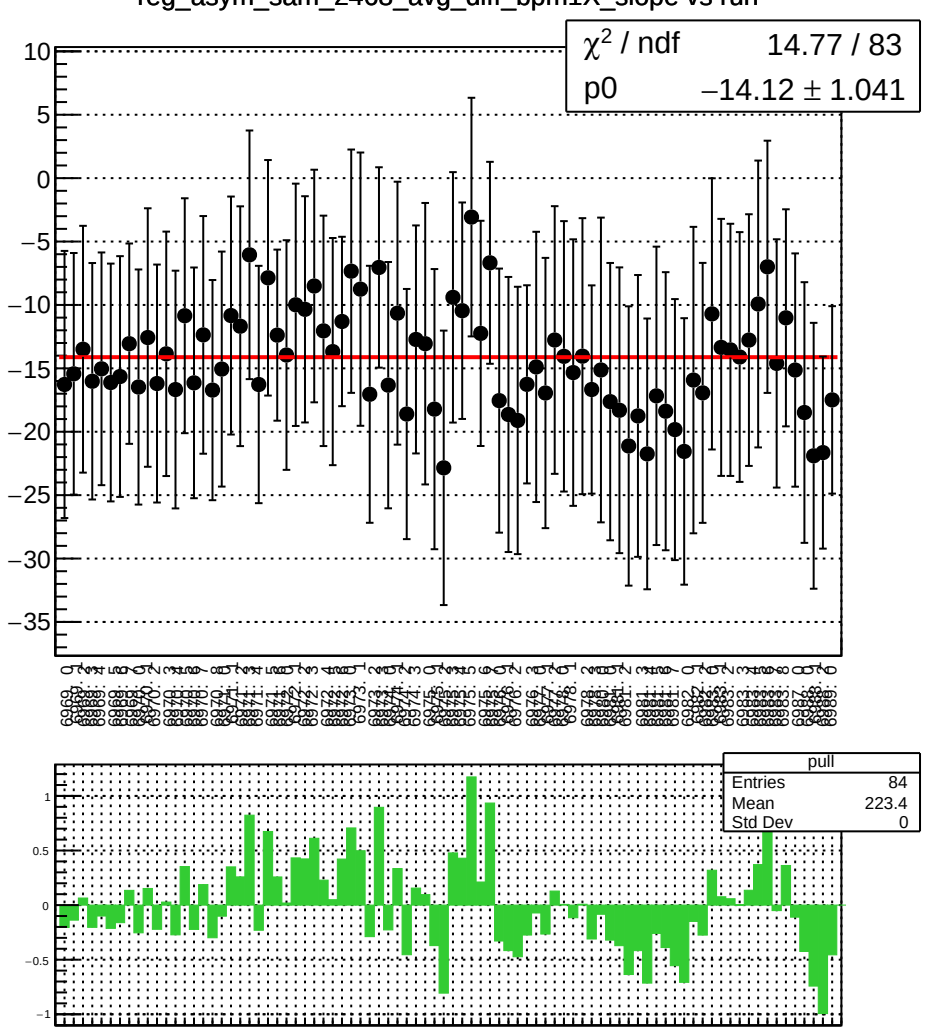

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.728 / 83
p0 1.453 ± 0.363
pull
Entries 84
Mean 40.69
Std Dev 33.18
pull1D
Entries 84
Mean 0.01103
Std Dev 0.2104

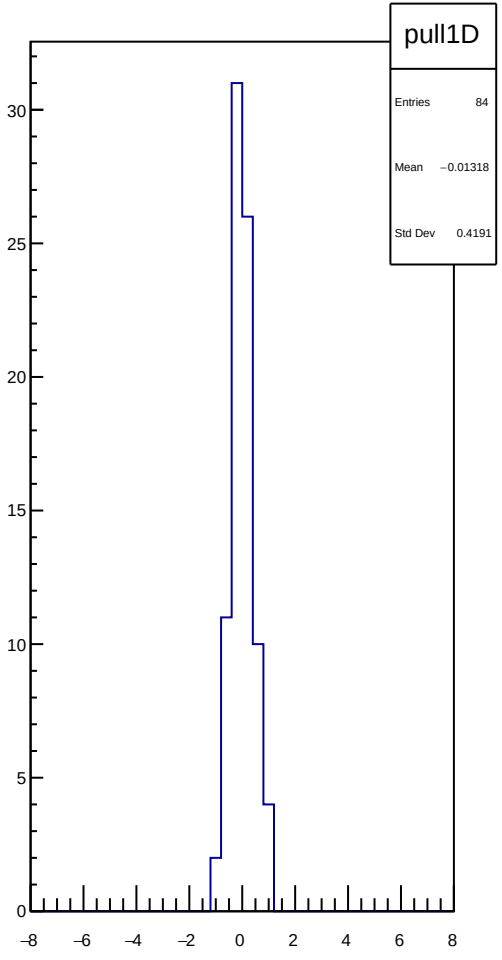

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.16 / 83
p0 −36.09 ± 0.4749
pull
Entries 84
Mean 217.6
Std Dev 0

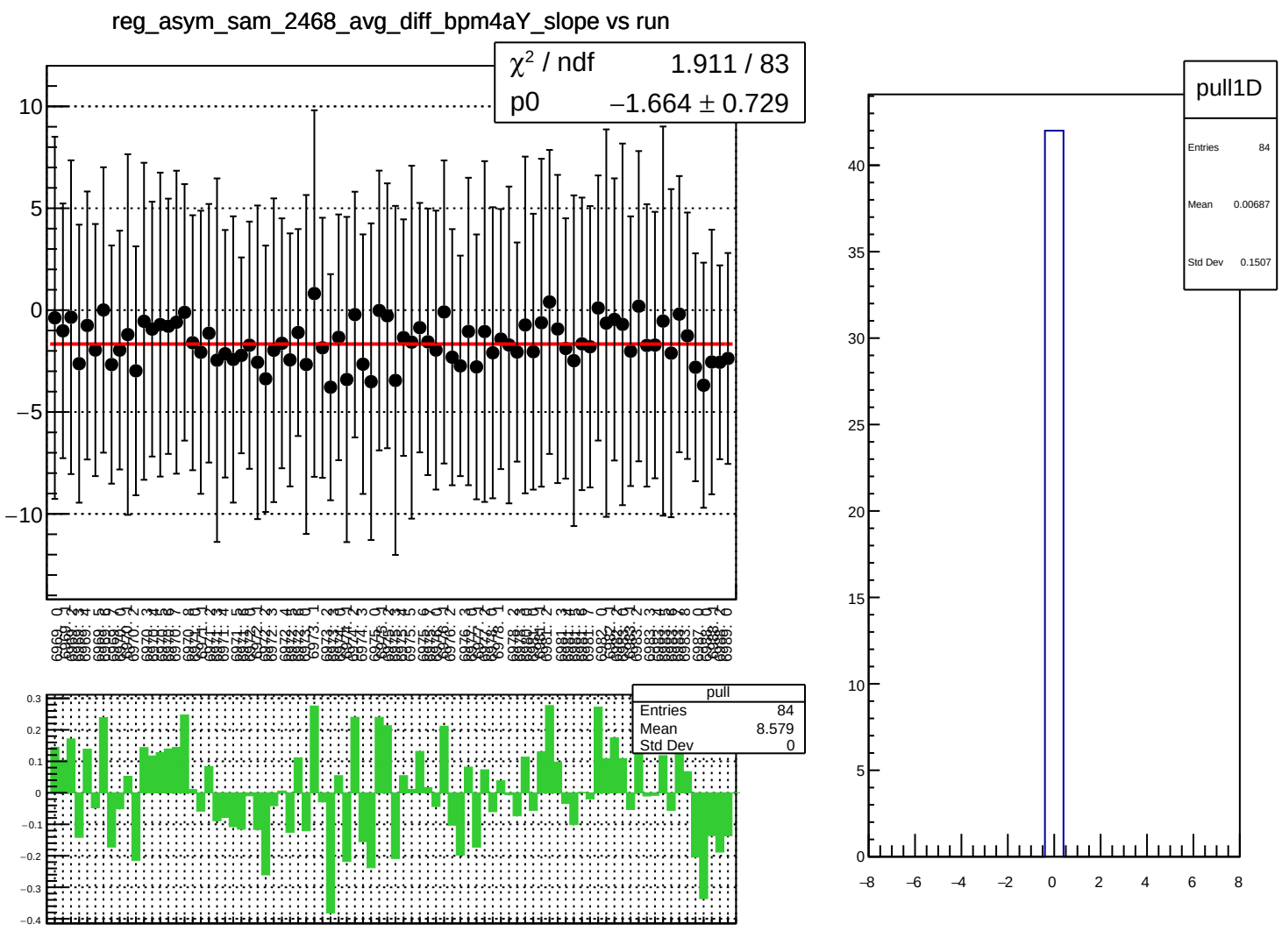

pull1D
Entries 84
Mean 0.01047
Std Dev 0.5018

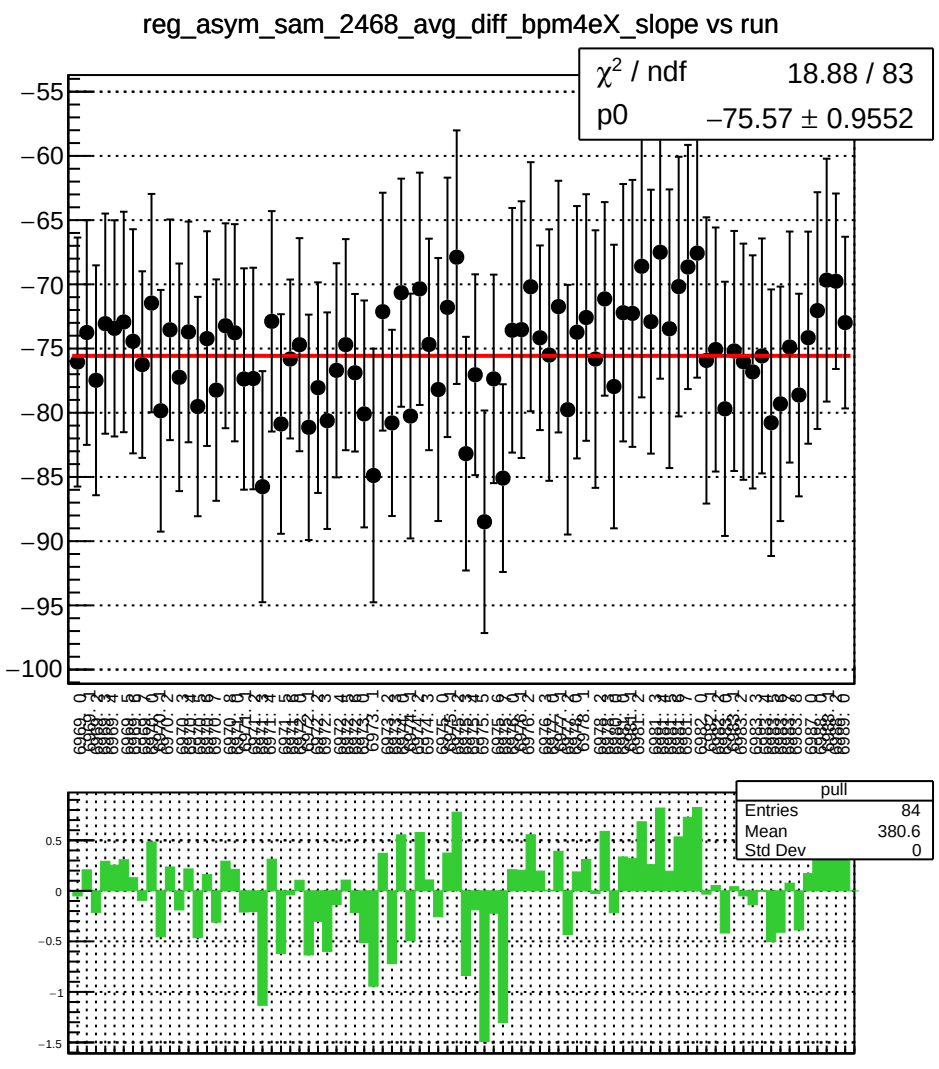

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.816 / 83
p0 28.86 ± 0.4156
pull
Entries 84
Mean 90.59
Std Dev 0
pull1D
Entries 84
Mean −0.01428
Std Dev 0.2845

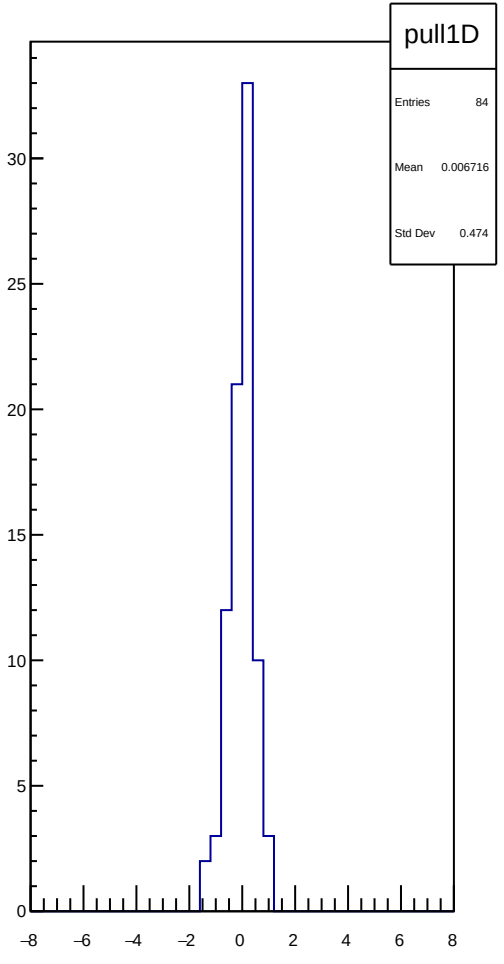

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 12.94 / 83
p0 0.2241± 0.01552
pull
Entries 84
Mean 176.6
Std Dev 0
pull1D
Entries 84
Mean −0.02473
Std Dev 0.3917

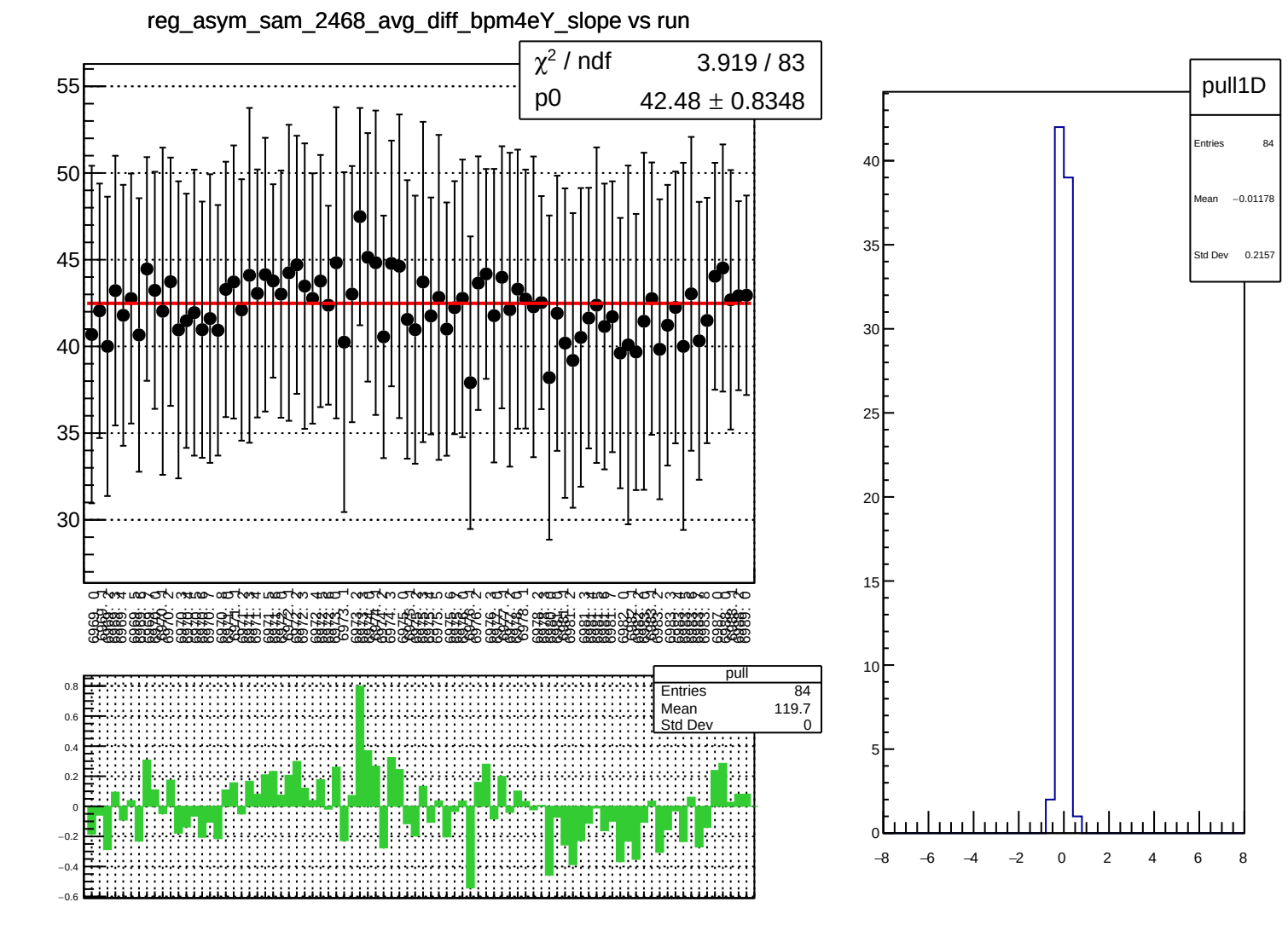

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 14.77 / 83
p0 −14.12 ± 1.041
pull
Entries 84
Mean 223.4
Std Dev 0

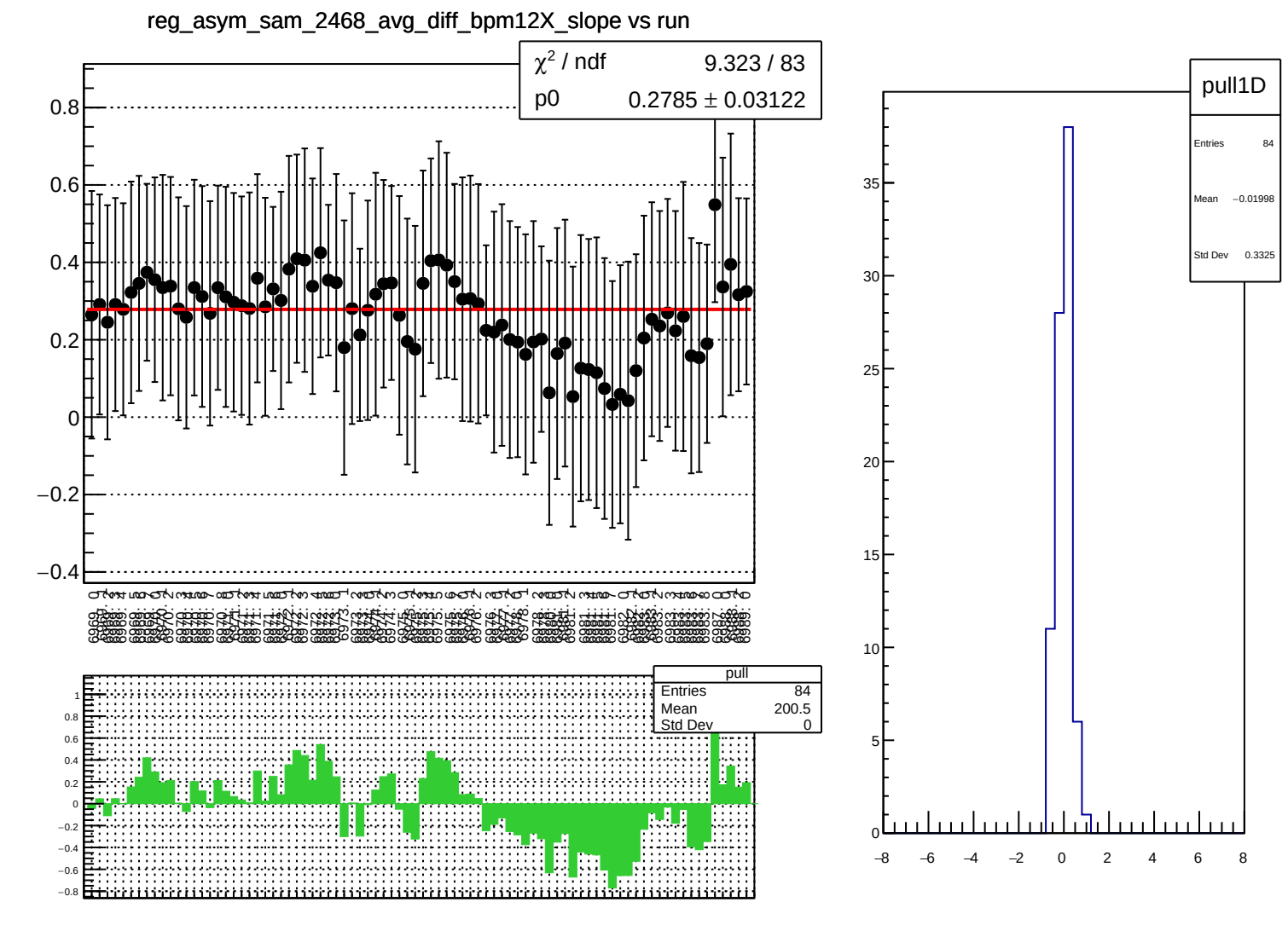

pull1D
Entries 84
Mean −0.01318
Std Dev 0.4191

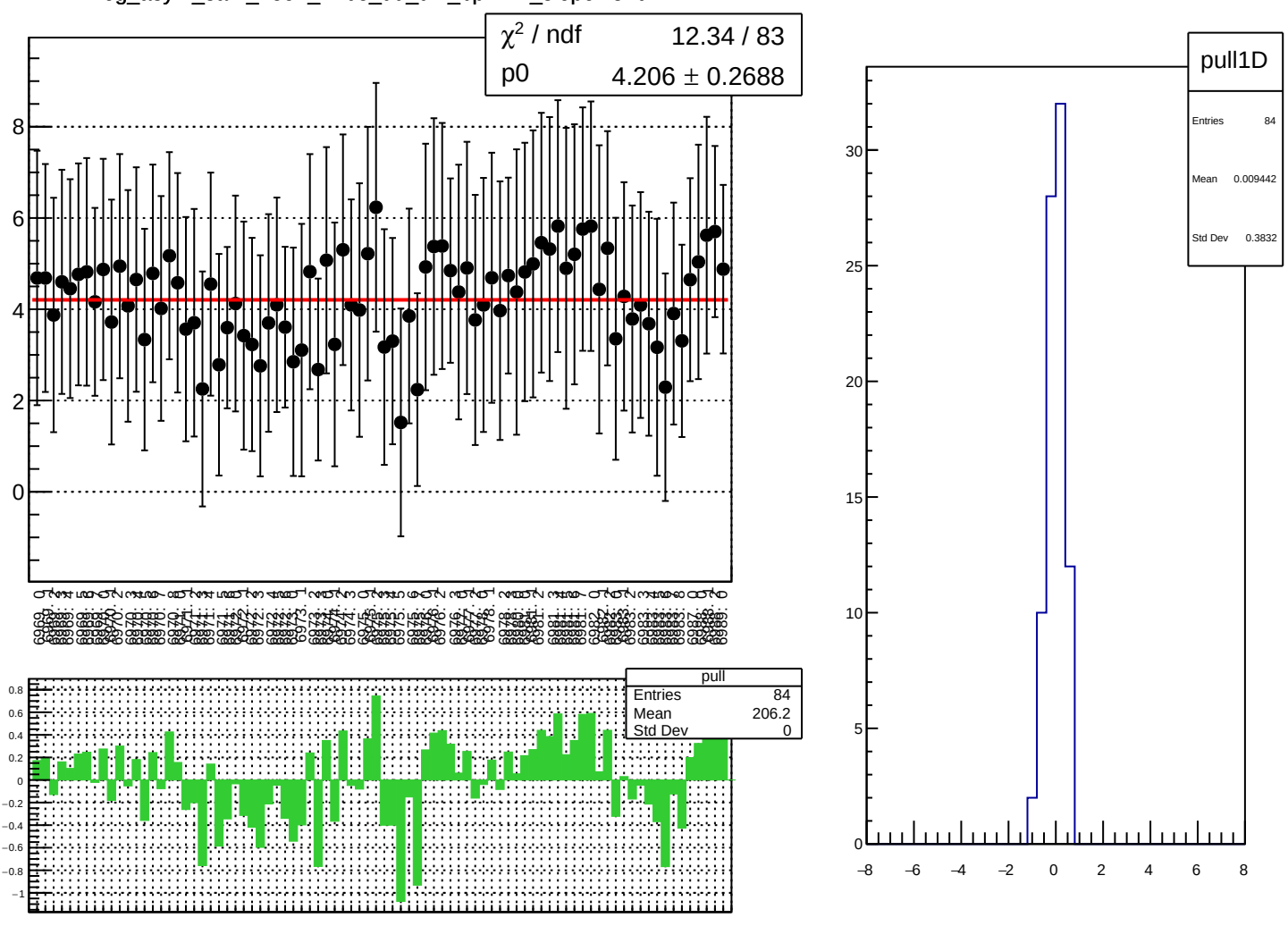

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.911 / 83
p0 −1.664 ± 0.729
pull
Entries 84
Mean 8.579
Std Dev 0
pull1D
Entries 84
Mean 0.00687
Std Dev 0.1507

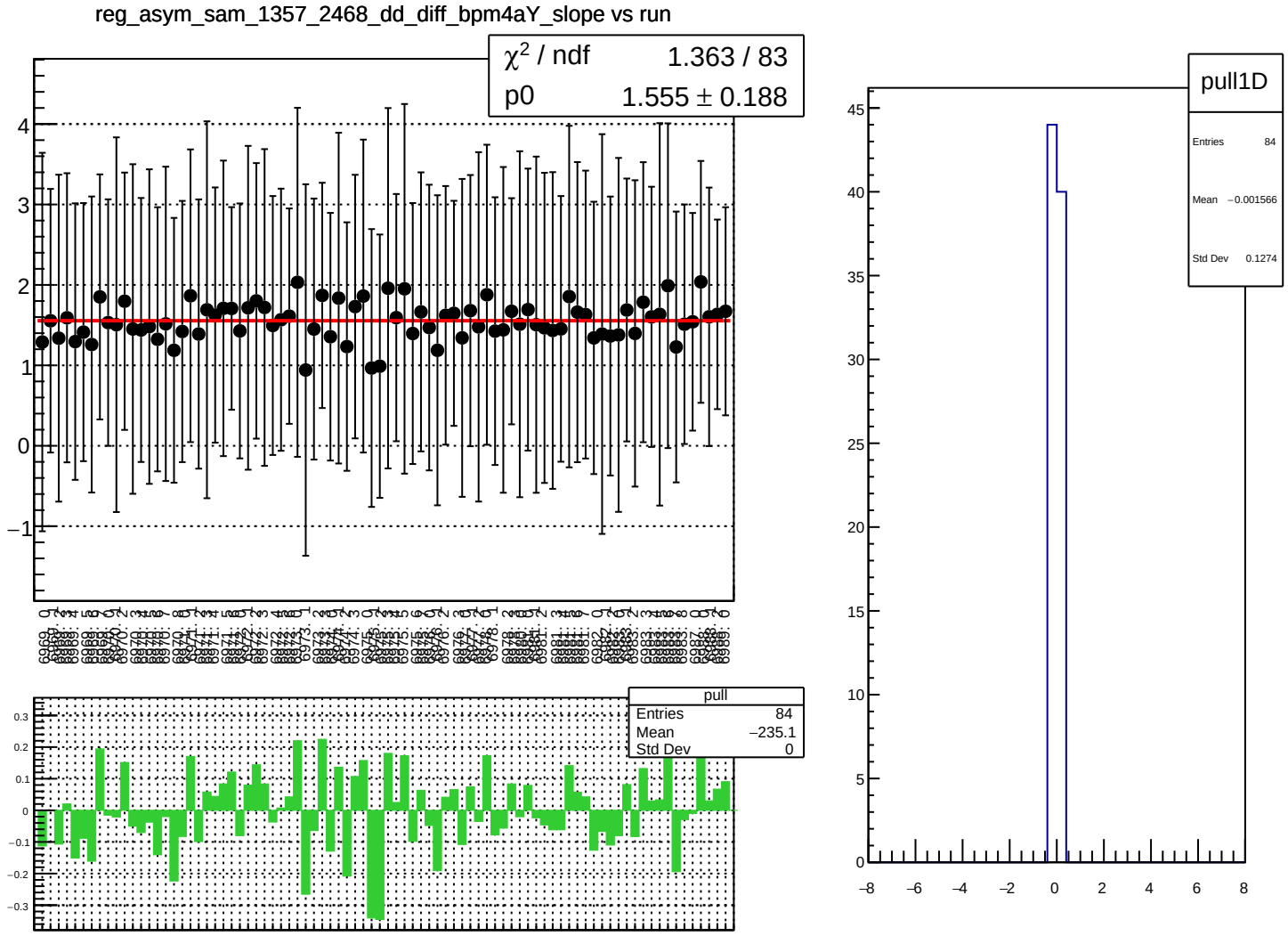

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.88 / 83
p0 −75.57 ± 0.9552
pull
Entries 84
Mean 380.6
Std Dev 0

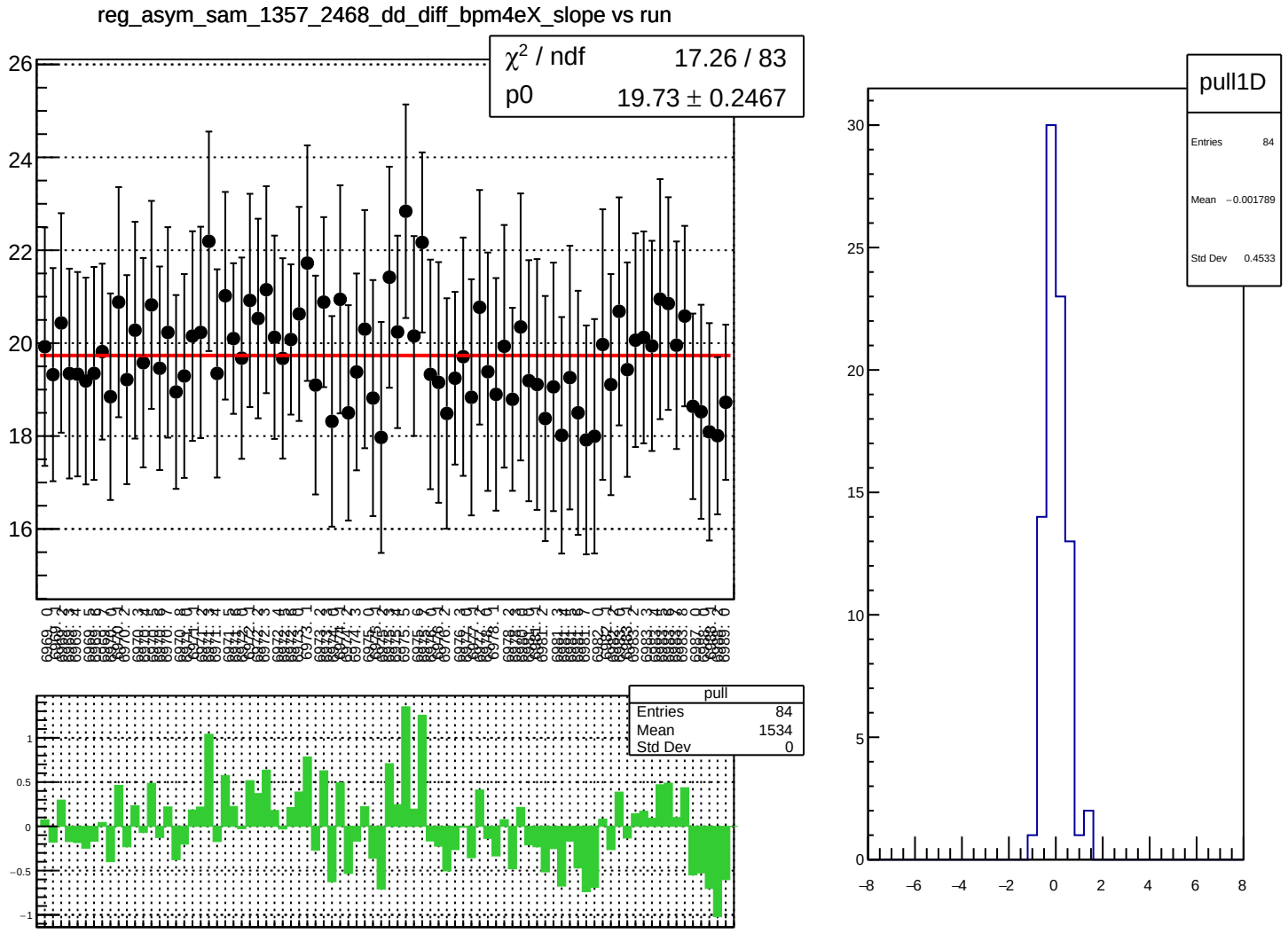

pull1D
Entries 84
Mean 0.006716
Std Dev 0.474

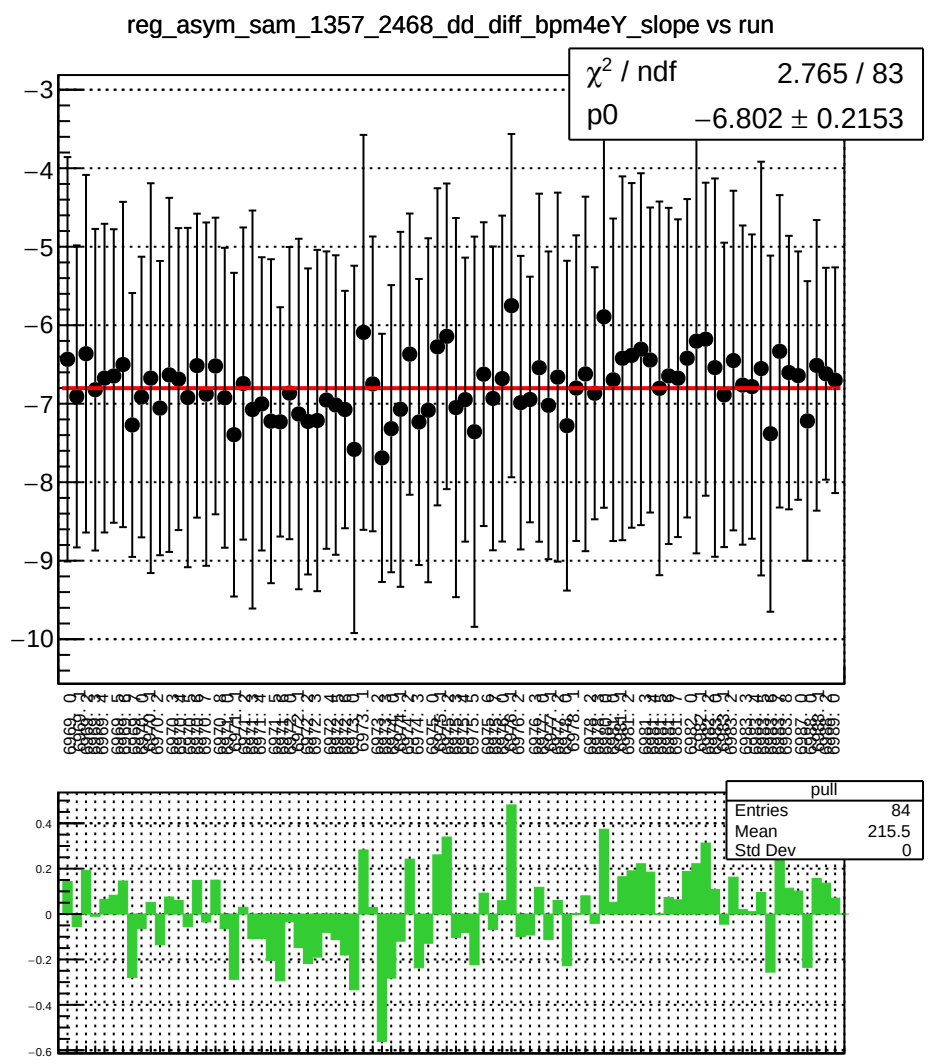

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.919 / 83
p0 42.48 ± 0.8348
pull
Entries 84
Mean 119.7
Std Dev 0
pull1D
Entries 84
Mean −0.01178
Std Dev 0.2157

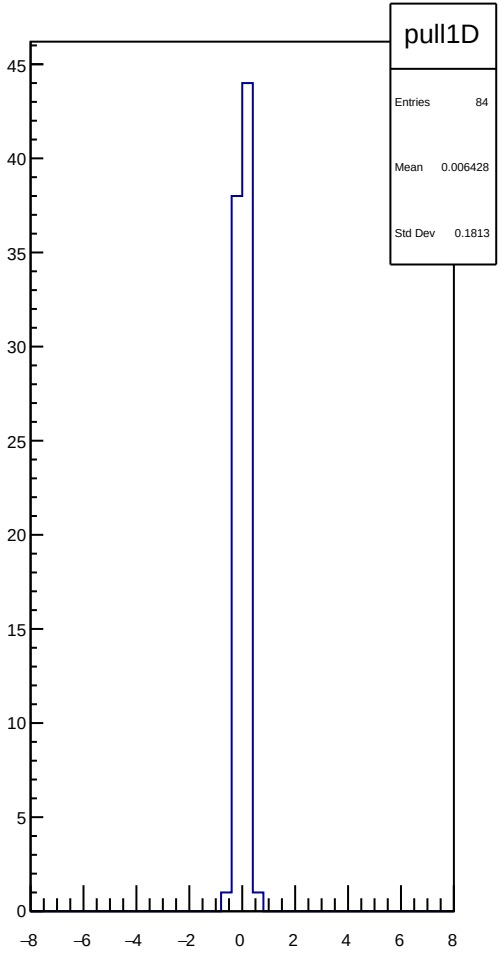

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 9.323 / 83
p0 0.2785 ± 0.03122
pull
Entries 84
Mean 200.5
Std Dev 0
pull1D
Entries 84
Mean −0.01998
Std Dev 0.3325

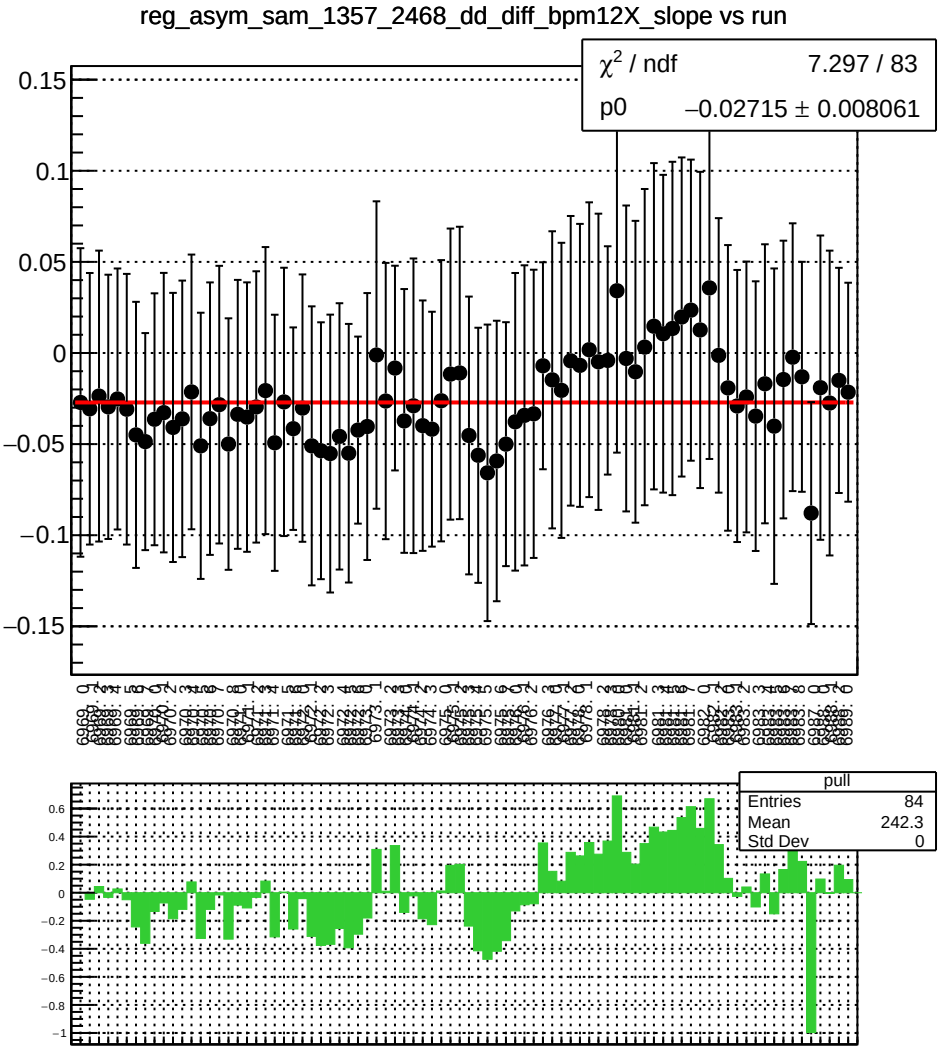

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 12.34 / 83
p0 4.206 ± 0.2688
pull
Entries 84
Mean 206.2
Std Dev 0
pull1D
Entries 84
Mean 0.009442
Std Dev 0.3832

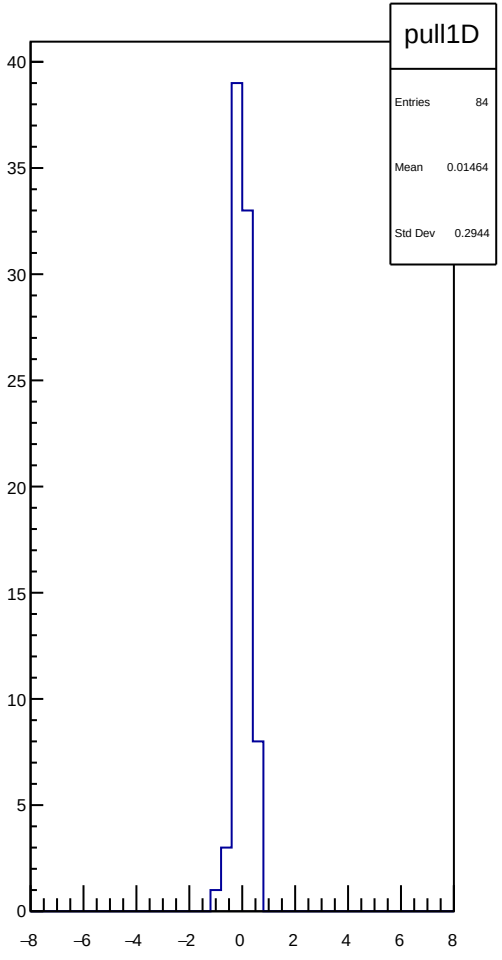

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.363 / 83
p0 1.555 ± 0.188
pull
Entries 84
Mean −235.1
Std Dev 0
pull1D
Entries 84
Mean −0.001566
Std Dev 0.1274

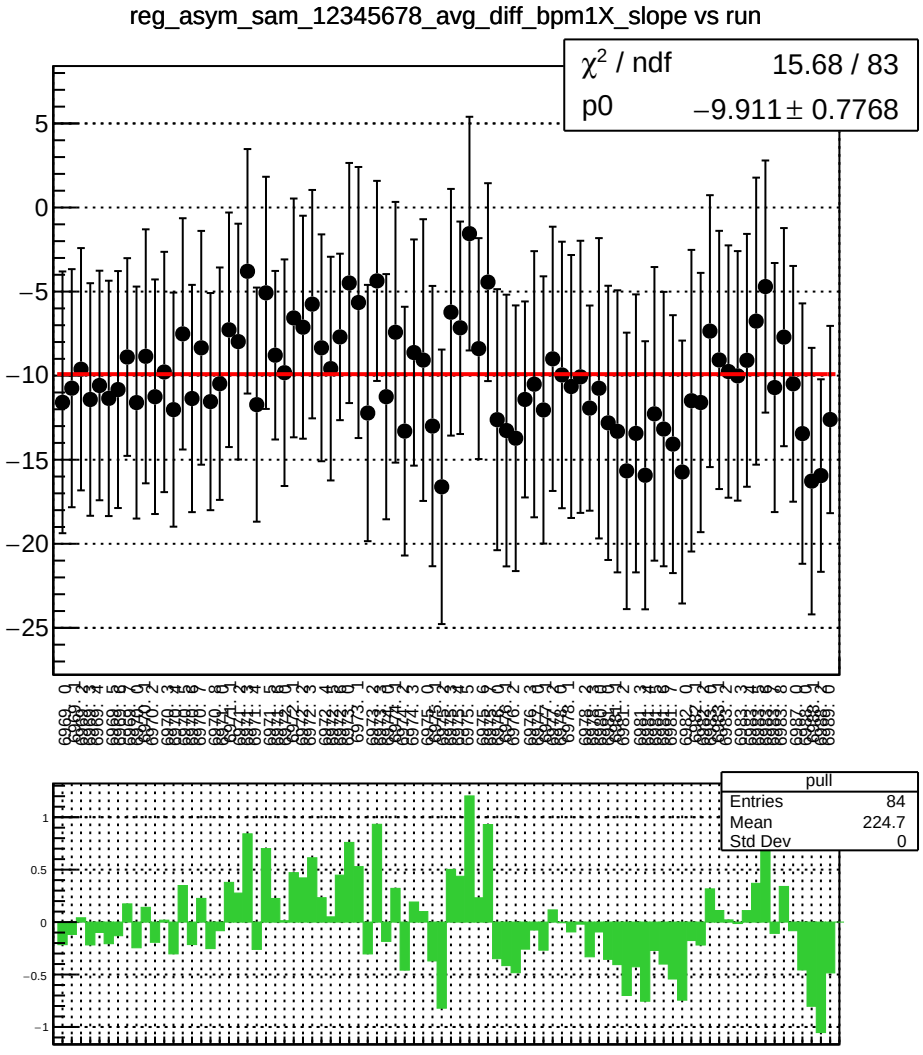

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.26 / 83
p0 19.73 ± 0.2467
pull
Entries 84
Mean 1534
Std Dev 0
pull1D
Entries 84
Mean −0.001789
Std Dev 0.4533

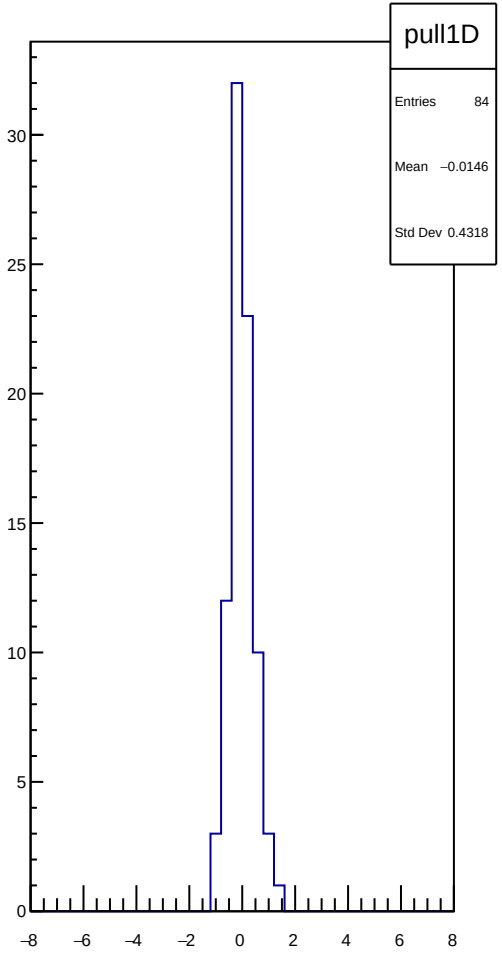

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.765 / 83
p0 −6.802 ± 0.2153
pull
Entries 84
Mean 215.5
Std Dev 0

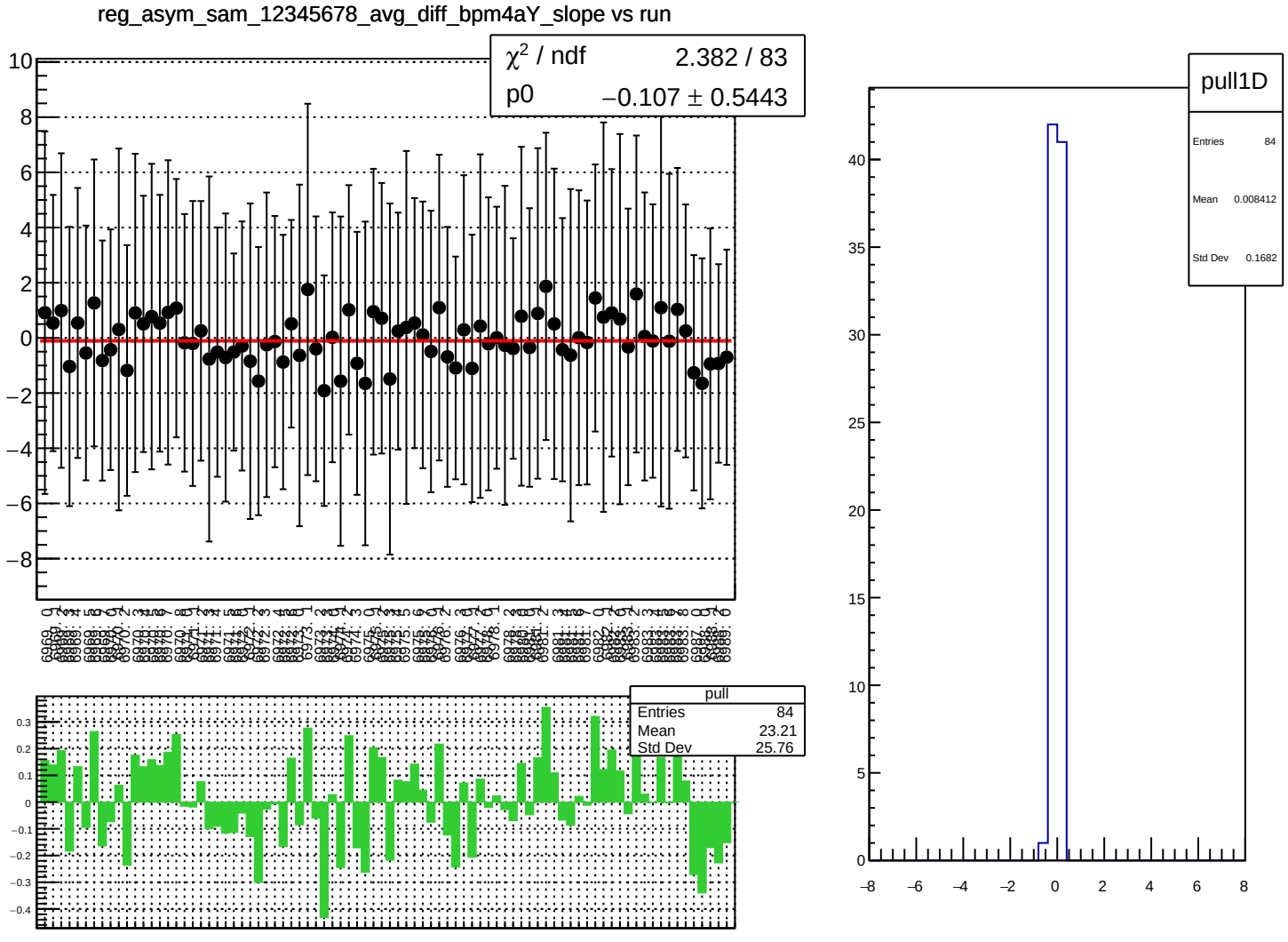

pull1D
Entries 84
Mean 0.006428
Std Dev 0.1813

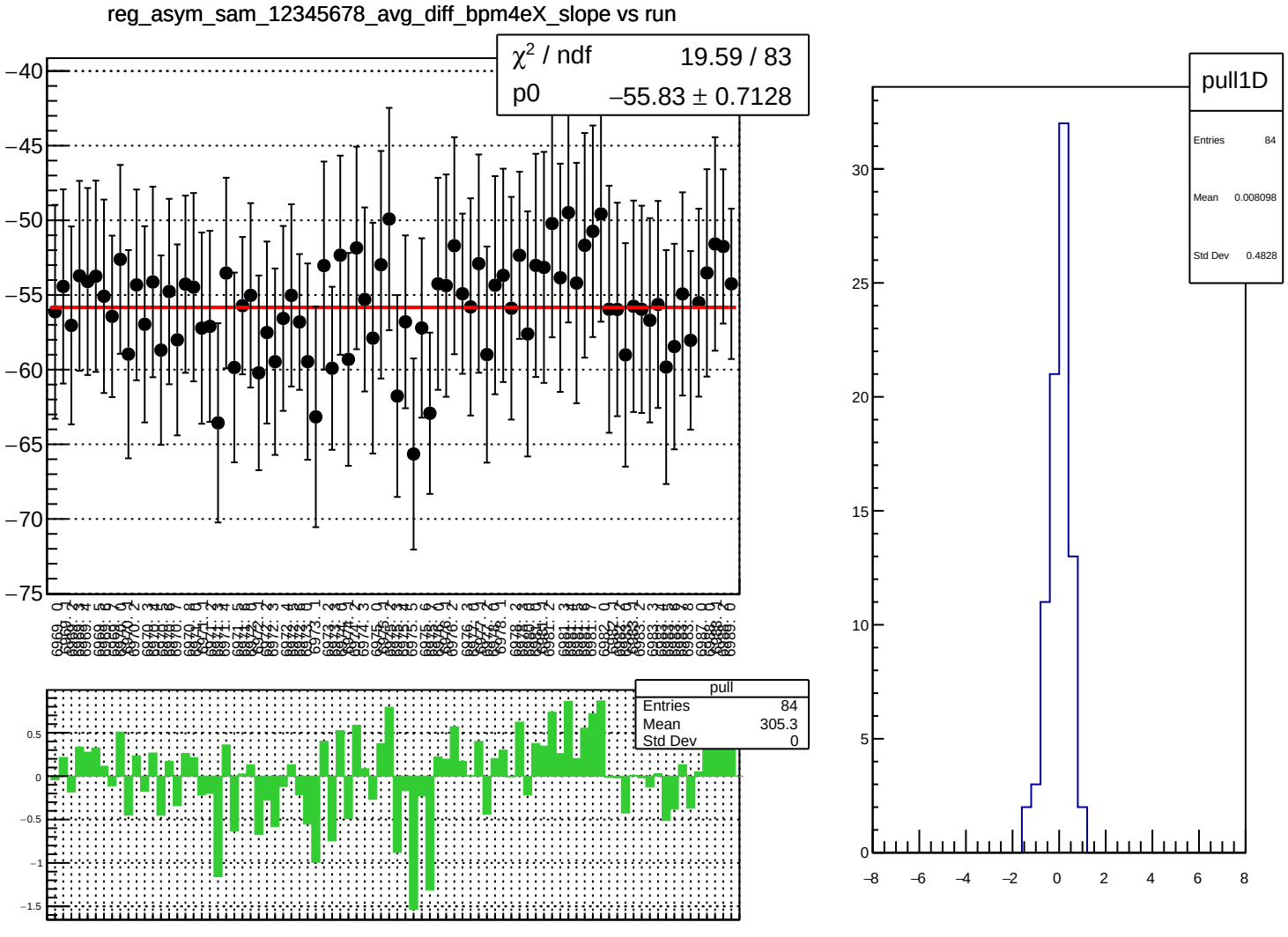

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 7.297 / 83
p0 −0.02715 ± 0.008061
pull
Entries 84
Mean 242.3
Std Dev 0

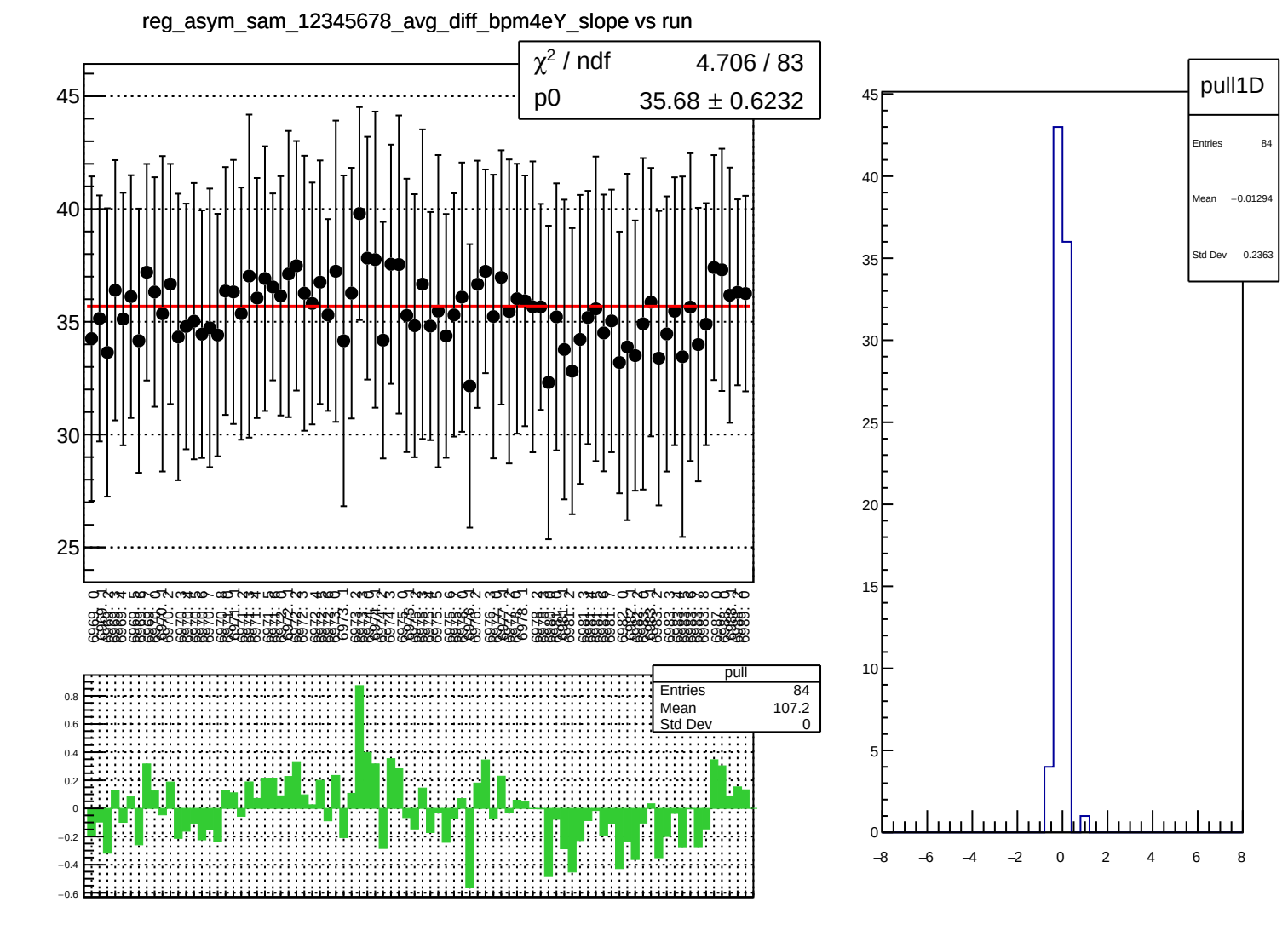

pull1D
Entries 84
Mean 0.01464
Std Dev 0.2944

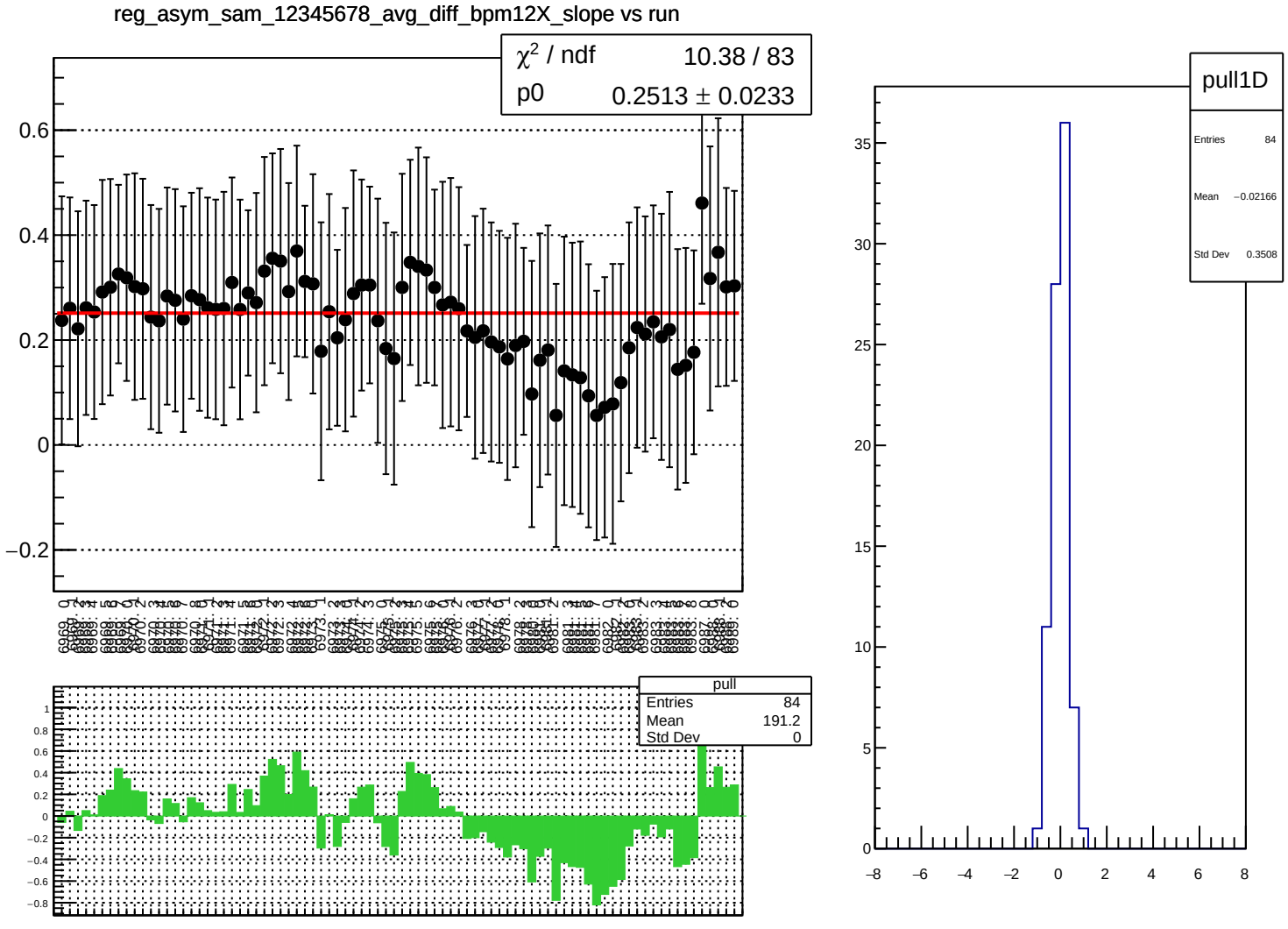

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 15.68 / 83
p0 −9.911 ± 0.7768
pull
Entries 84
Mean 224.7
Std Dev 0

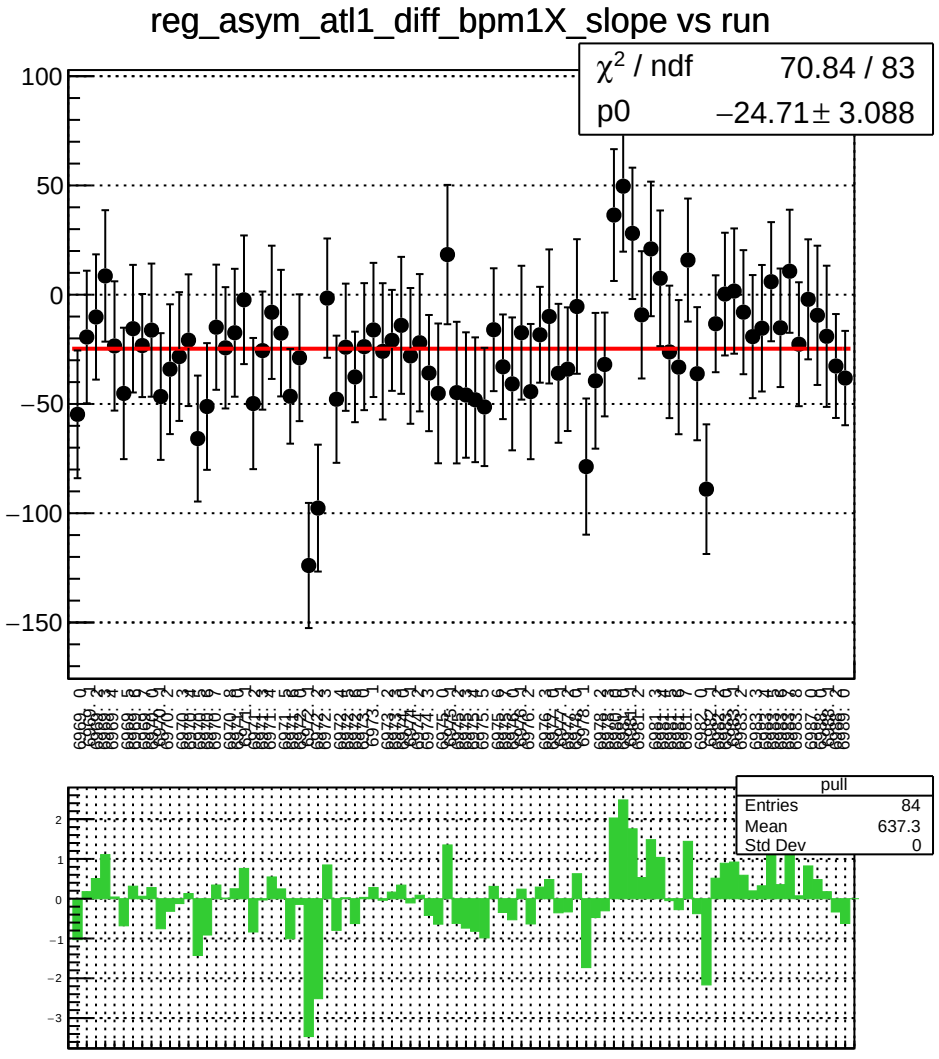

pull1D
Entries 84
Mean −0.0146
Std Dev 0.4318

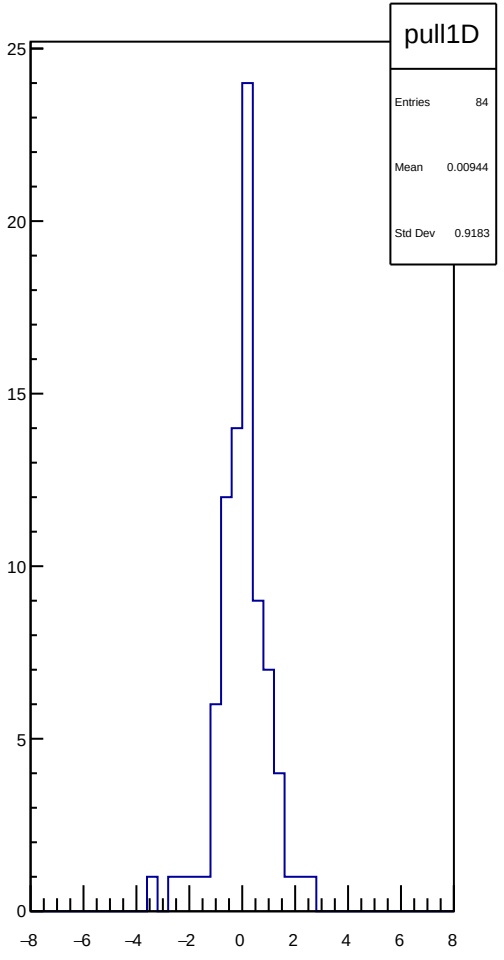

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.382 / 83
p0 −0.107 ± 0.5443
pull
Entries 84
Mean 23.21
Std Dev 25.76
pull1D
Entries 84
Mean 0.008412
Std Dev 0.1682

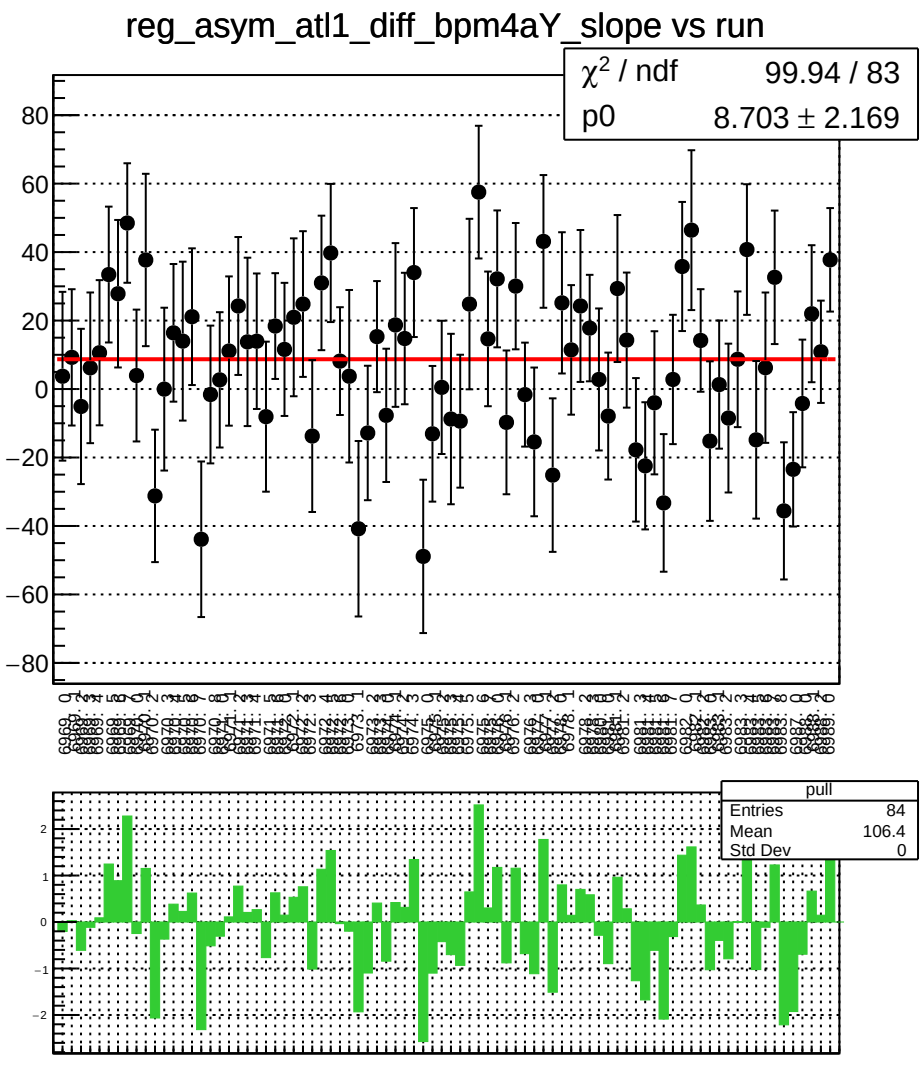

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.59 / 83
p0 −55.83 ± 0.7128
pull
Entries 84
Mean 305.3
Std Dev 0
pull1D
Entries 84
Mean 0.008098
Std Dev 0.4828

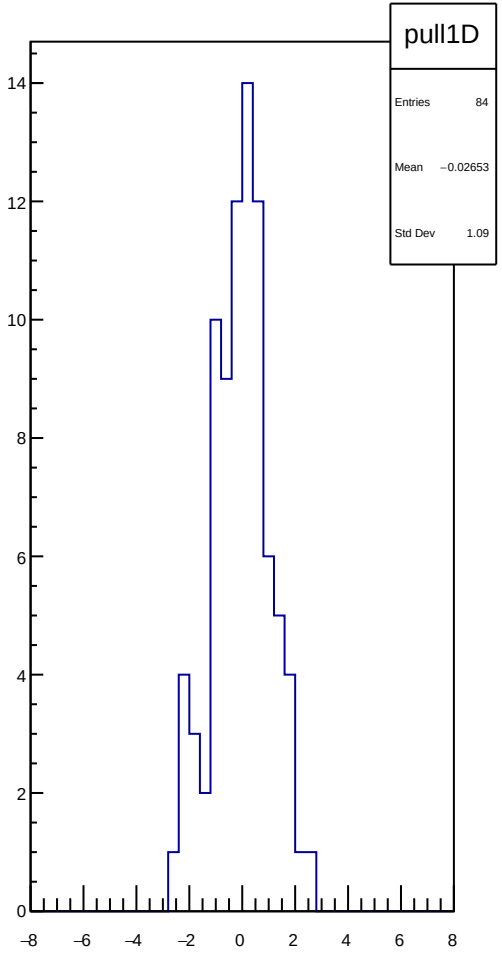

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.706 / 83
p0 35.68 ± 0.6232
pull
Entries 84
Mean 107.2
Std Dev 0
pull1D
Entries 84
Mean −0.01294
Std Dev 0.2363

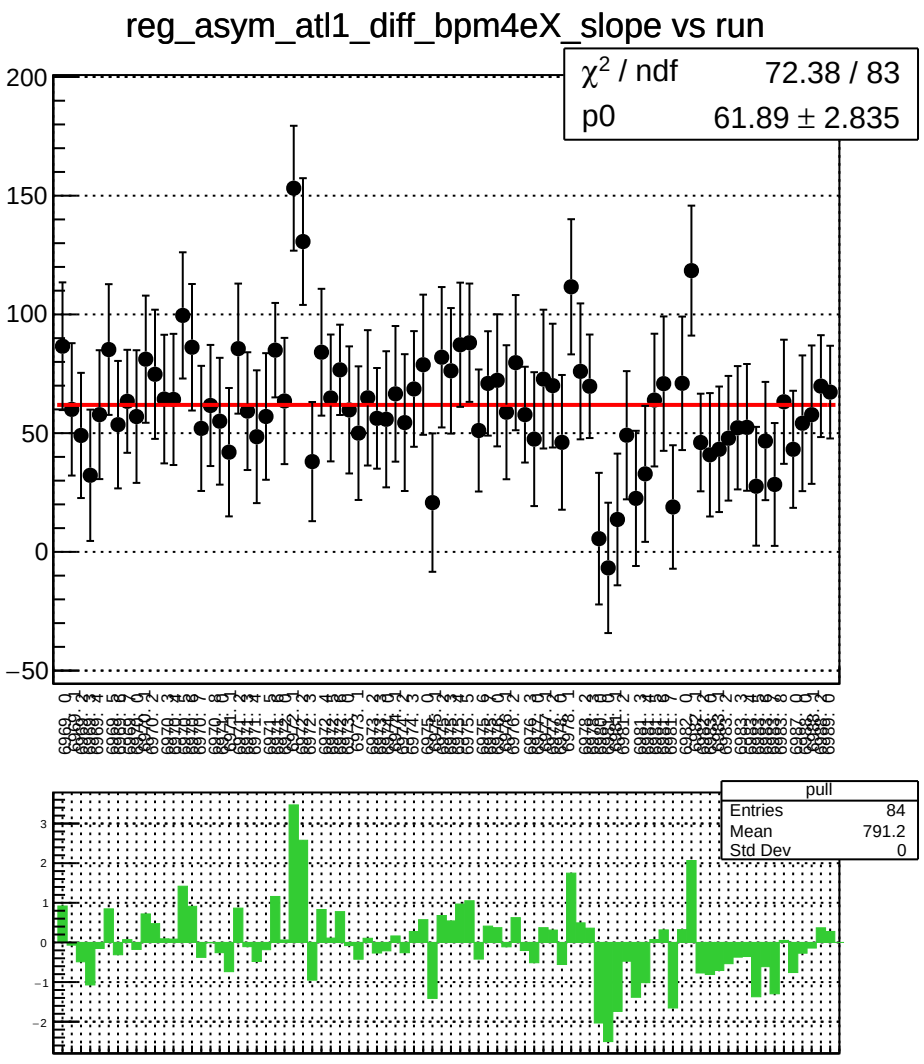

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 10.38 / 83
p0 0.2513 ± 0.0233
0.6
0.4
0.2
0
−0.2
pull
Entries 84
Mean 191.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 84
Mean −0.02166
Std Dev 0.3508
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

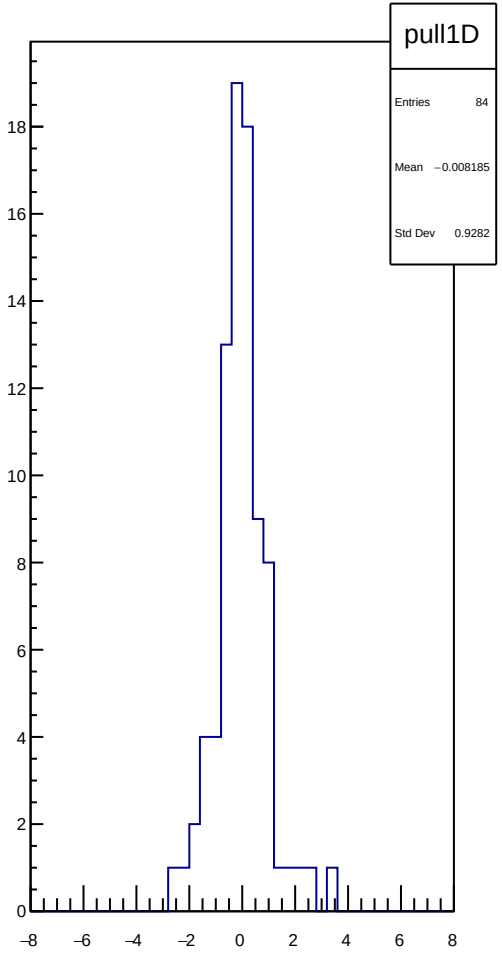

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 70.84 / 83
p0 −24.71± 3.088
pull
Entries 84
Mean 637.3
Std Dev 0

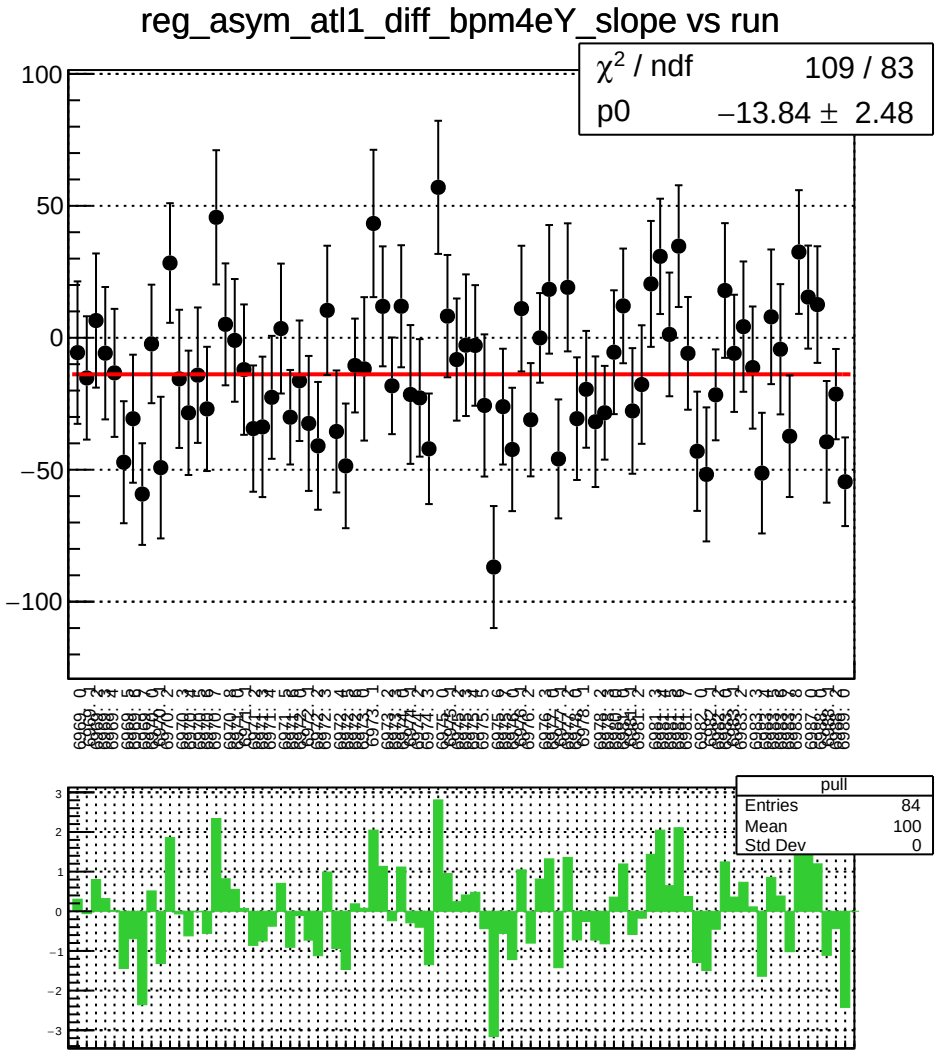

pull1D
Entries 84
Mean 0.00944
Std Dev 0.9183

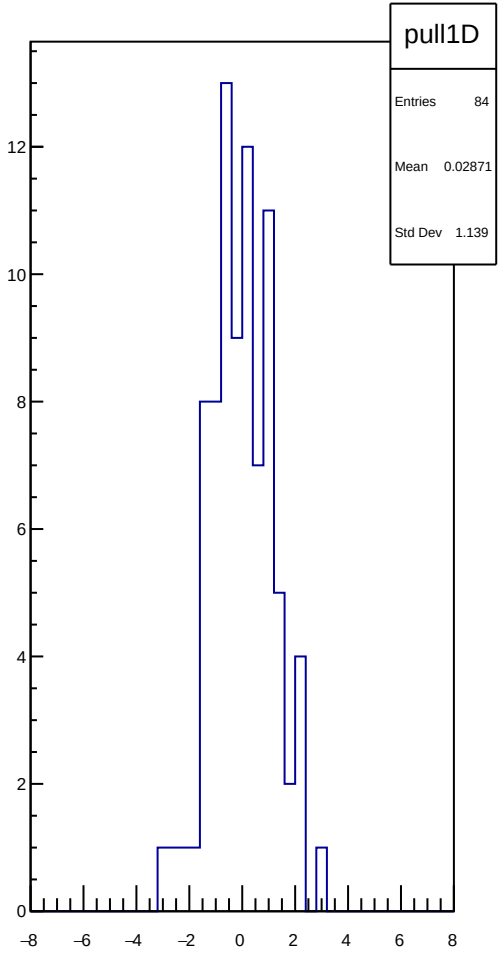

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 99.94 / 83
p0 8.703 ± 2.169
pull
Entries 84
Mean 106.4
Std Dev 0

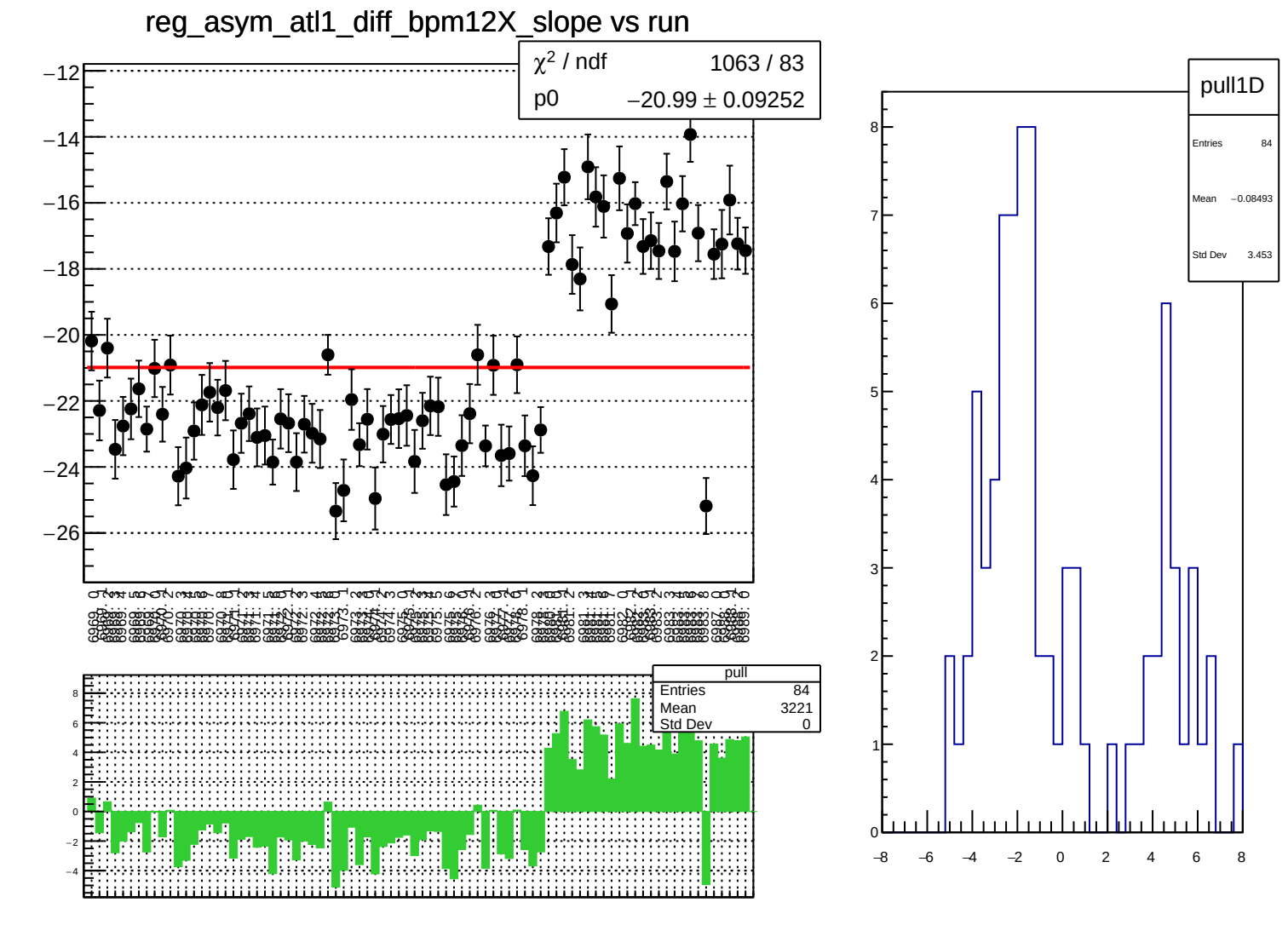

pull1D
Entries 84
Mean −0.02653
Std Dev 1.09

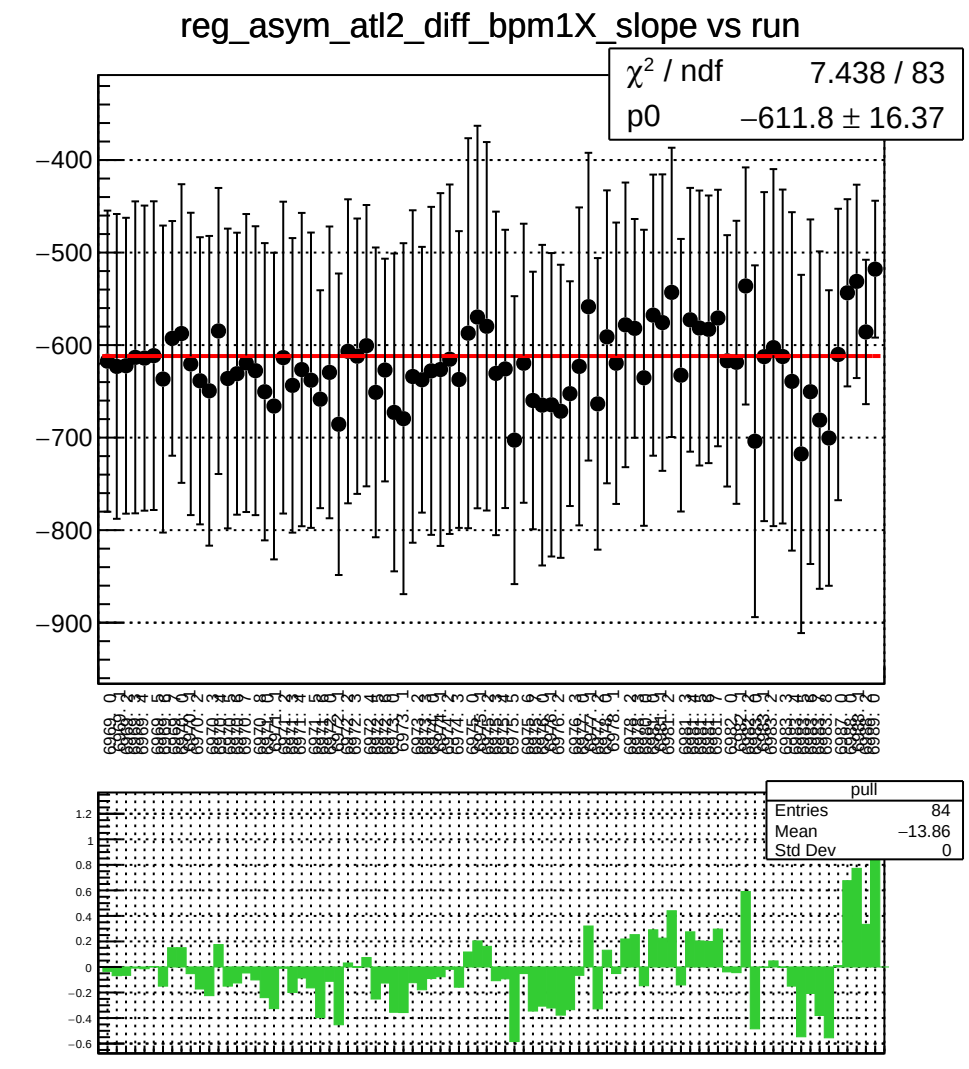

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 72.38 / 83
p0 61.89 ± 2.835
200
150
100
50
0
−50
pull
Entries 84
Mean 791.2
Std Dev 0
3
2
1
0
−1
−2

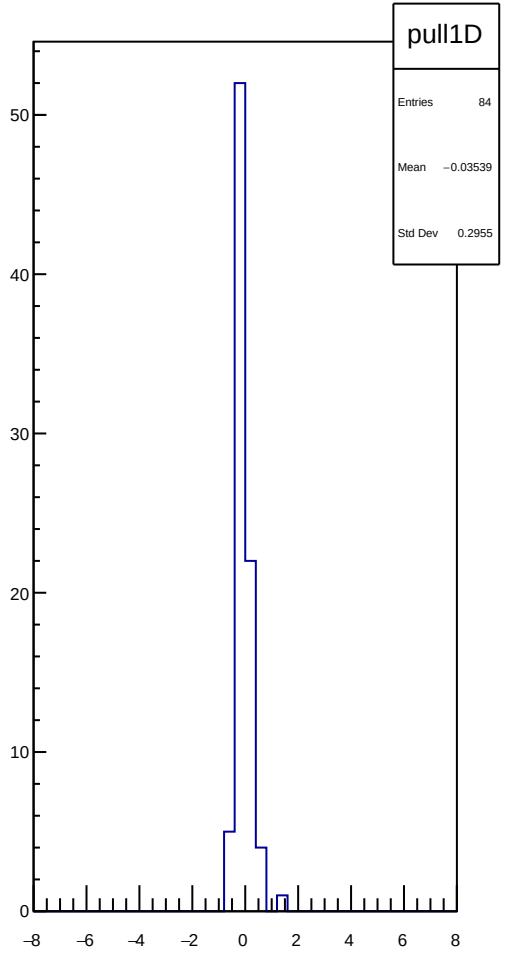

pull1D
Entries 84
Mean −0.008185
Std Dev 0.9282
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

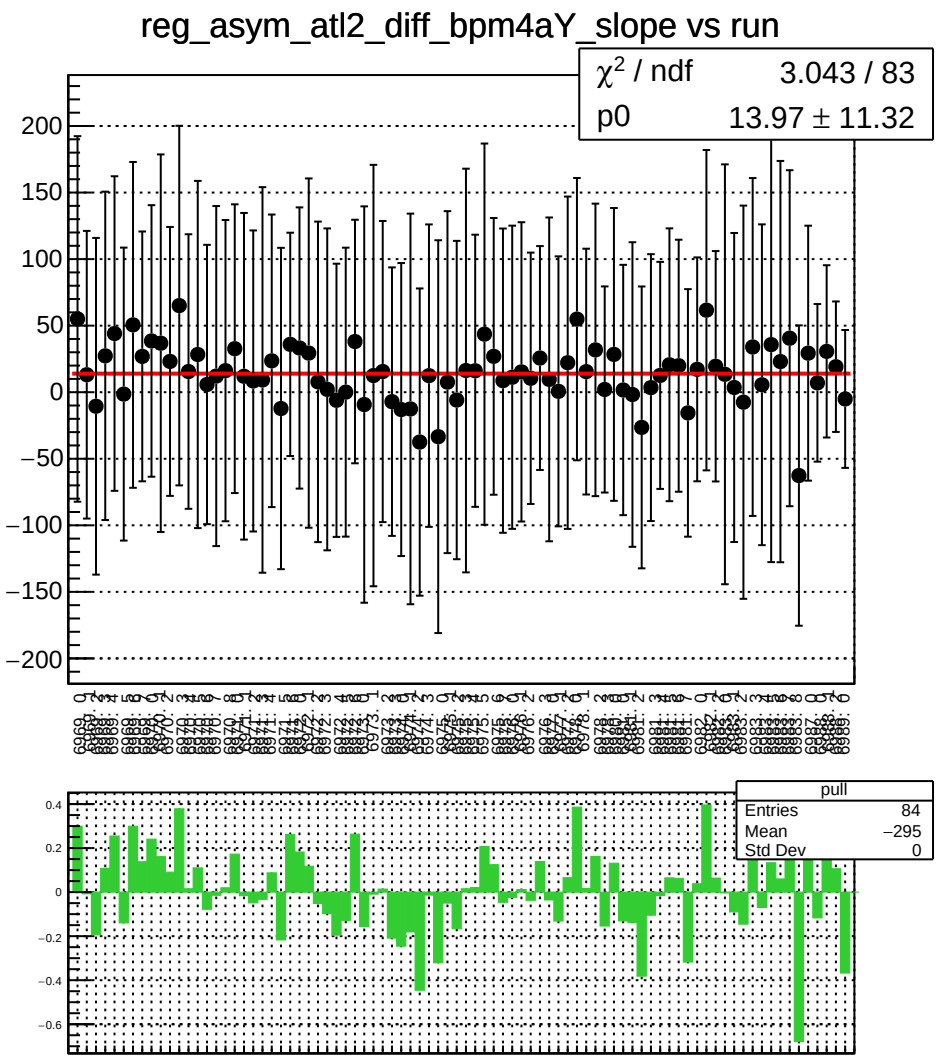

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 109 / 83
p0 −13.84 ± 2.48
pull
Entries 84
Mean 100
Std Dev 0

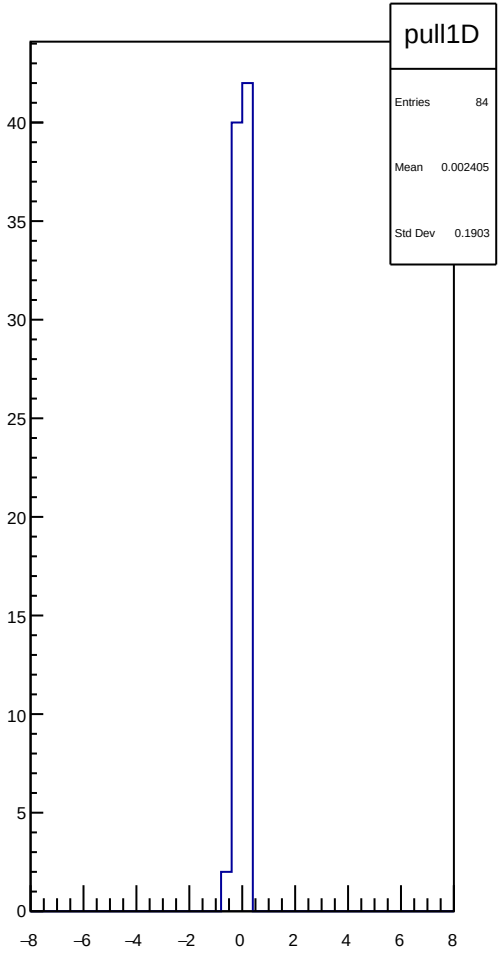

pull1D
Entries 84
Mean 0.02871
Std Dev 1.139

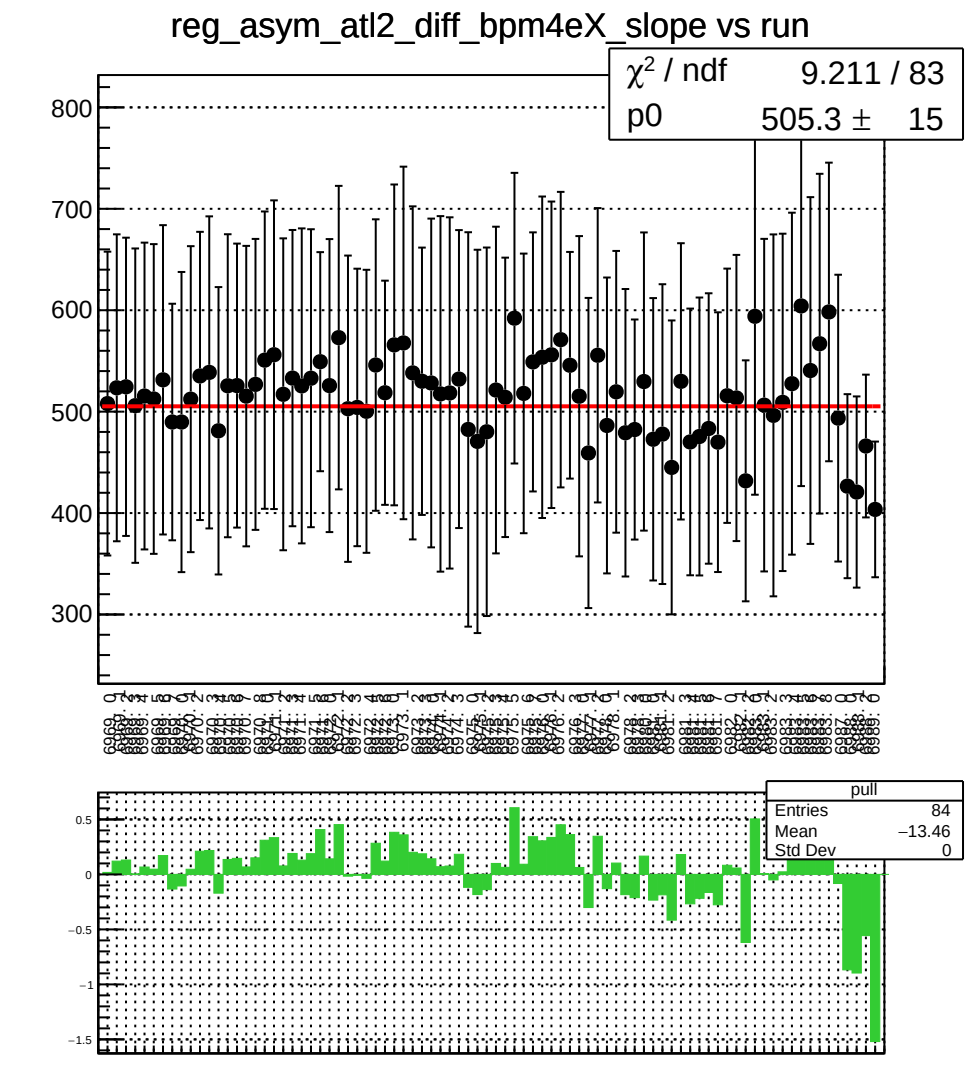

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 1063 / 83
p0 −20.99 ± 0.09252
pull
Entries 84
Mean 3221
Std Dev 0
pull1D
Entries 84
Mean −0.08493
Std Dev 3.453

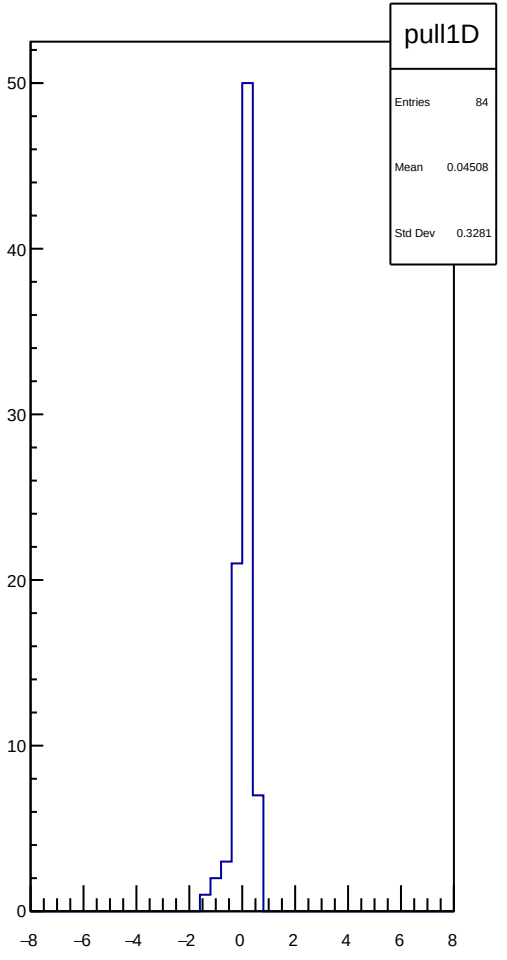

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 7.438 / 83
p0 −611.8 ± 16.37
−400
−500
−600
−700
−800
−900
pull
Entries 84
Mean −13.86
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

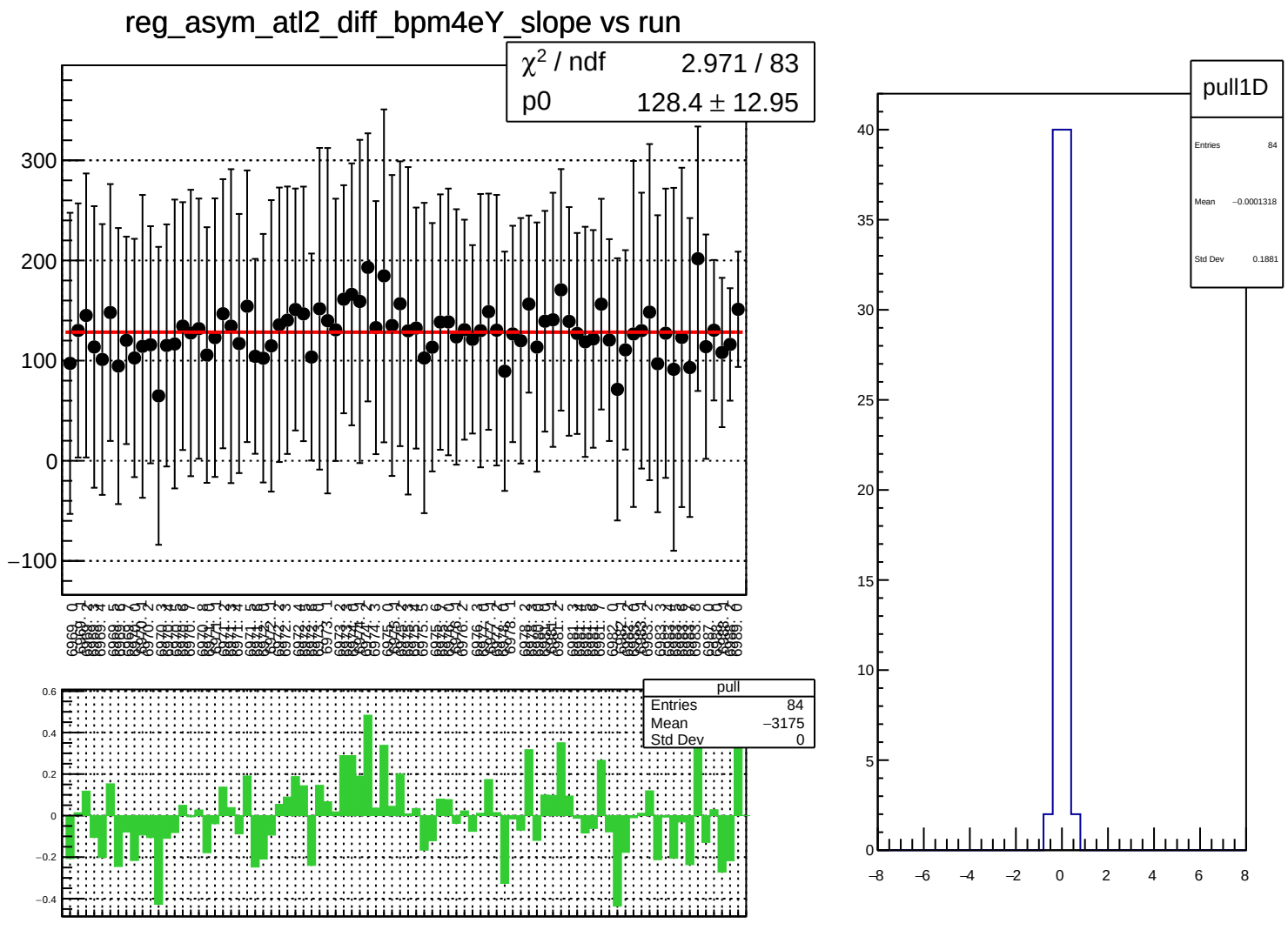

pull1D
Entries 84
Mean −0.03539
Std Dev 0.2955
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

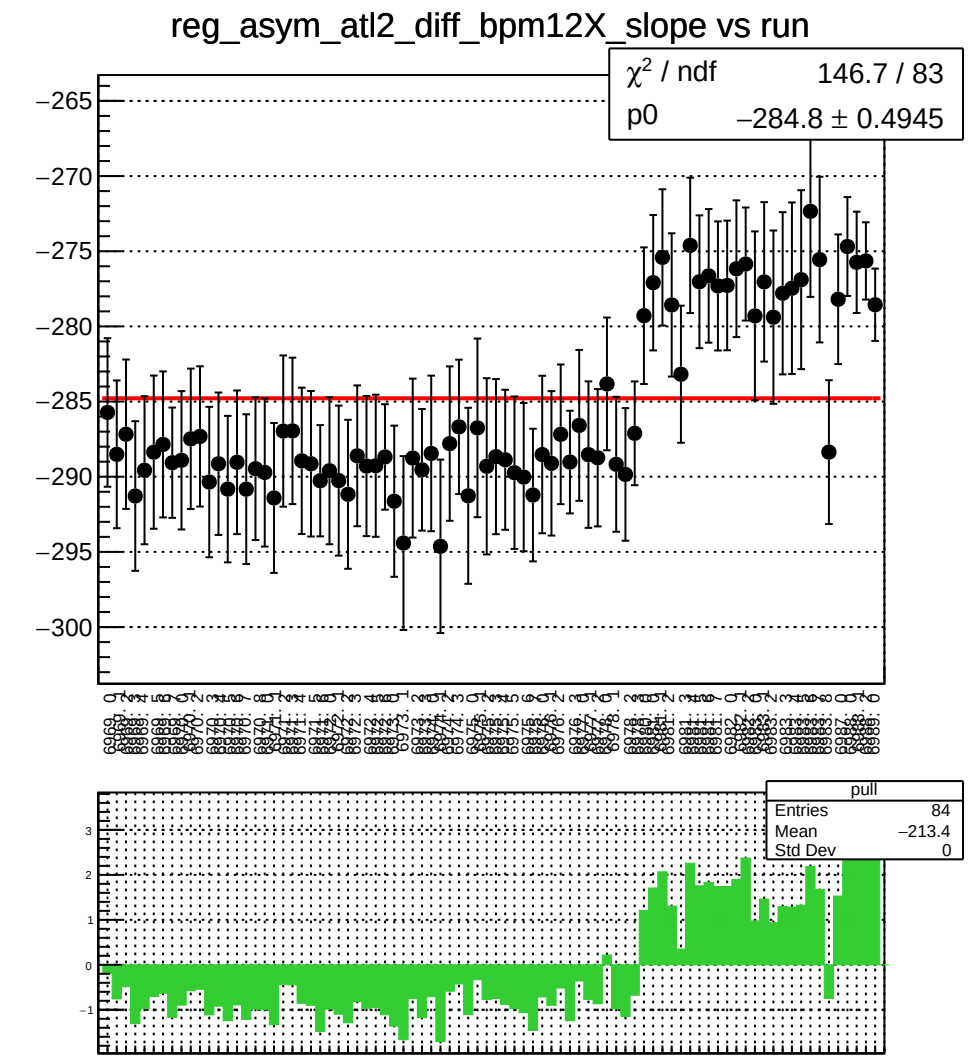

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 3.043 / 83
p0 13.97 ± 11.32
pull
Entries 84
Mean −295
Std Dev 0

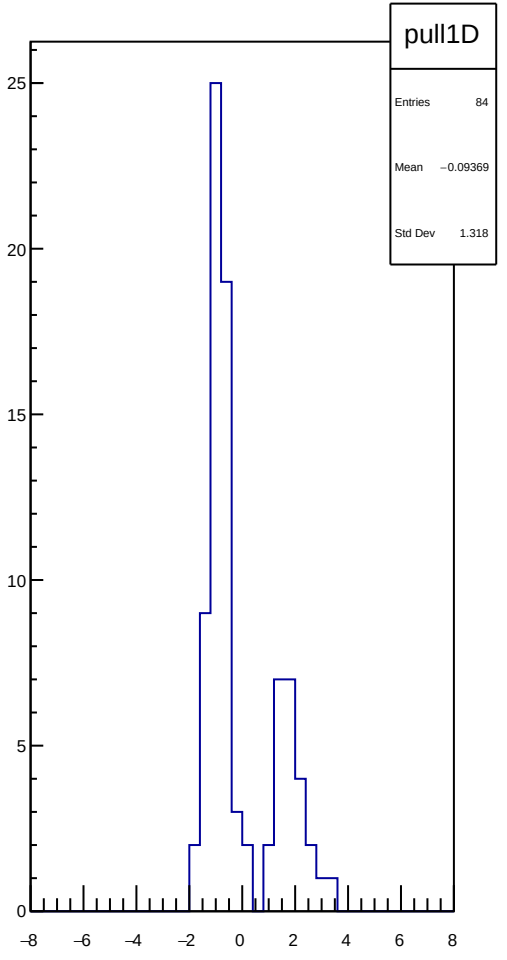

pull1D
Entries 84
Mean 0.002405
Std Dev 0.1903

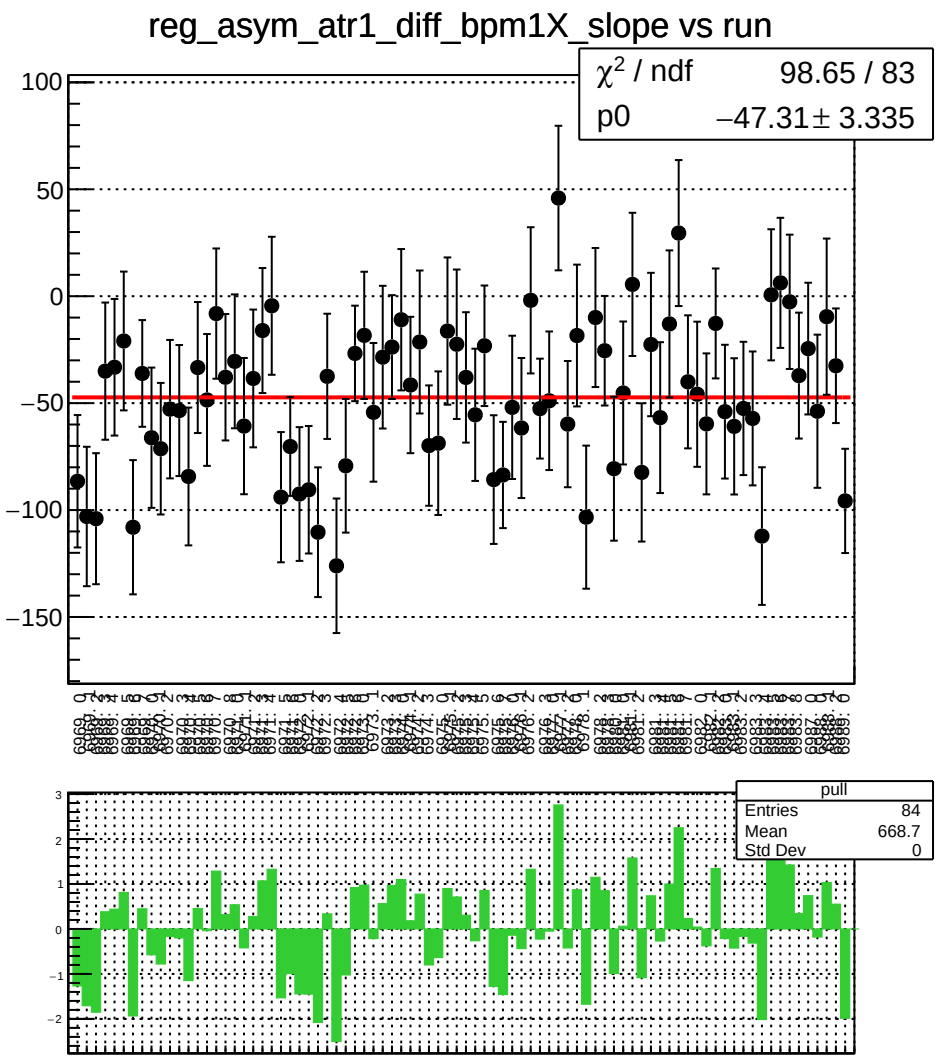

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 9.211 / 83
p0 505.3 ± 15
800
700
600
500
400
300
pull
Entries 84
Mean −13.46
Std Dev 0
0.5
0
−0.5
−1
−1.5

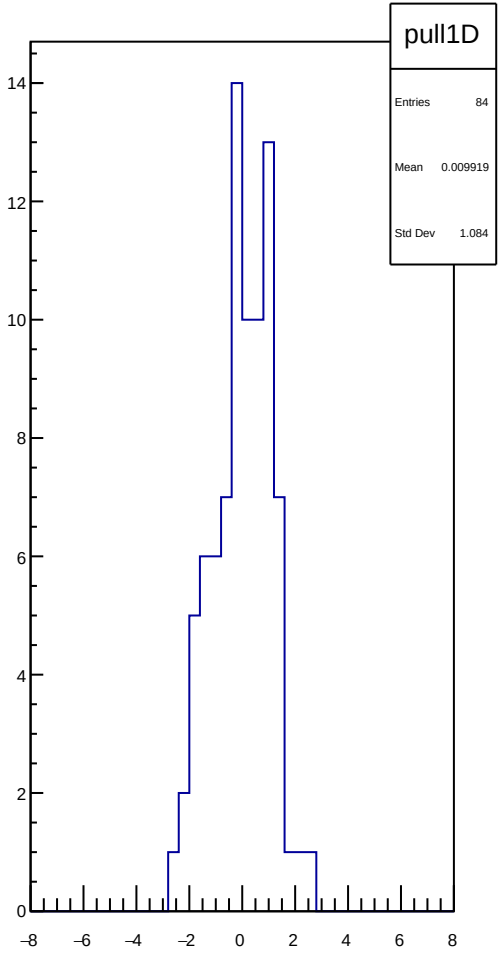

pull1D
Entries 84
Mean 0.04508
Std Dev 0.3281
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

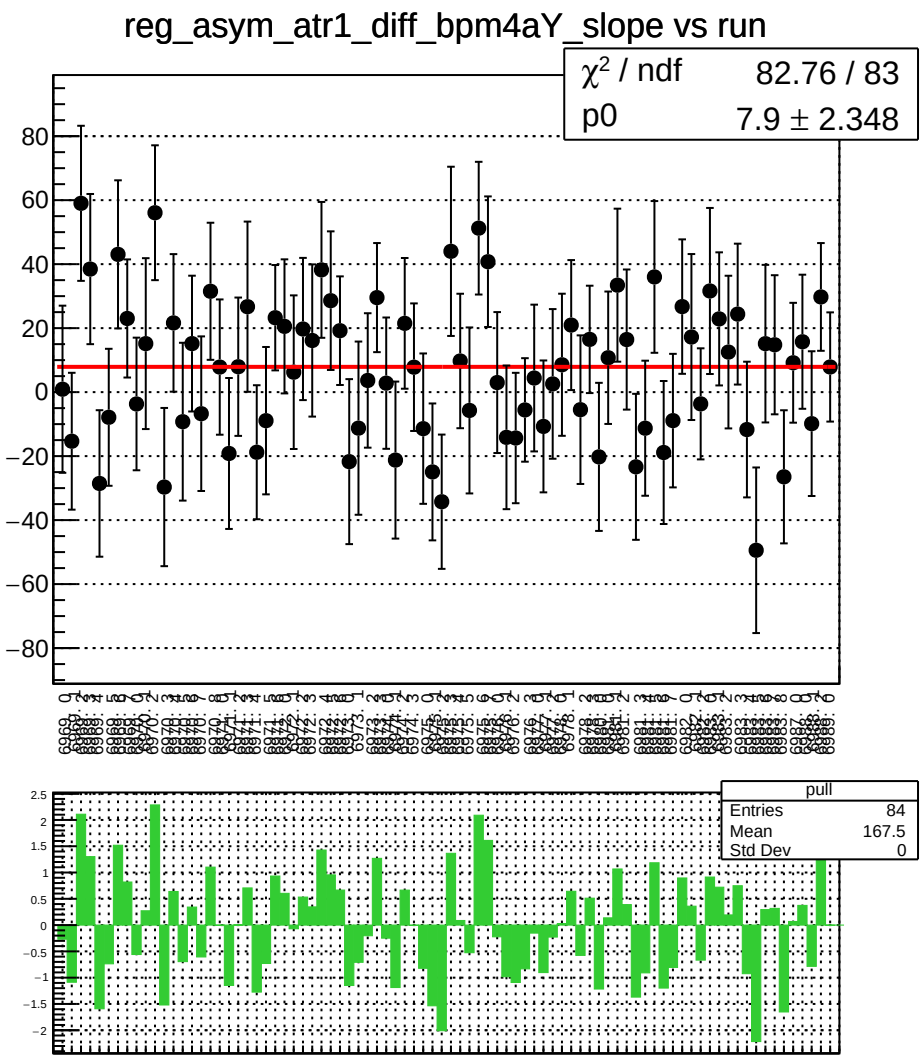

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 2.971 / 83
p0 128.4 ± 12.95
300
200
100
0
−100
pull
Entries 84
Mean −3175
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 84
Mean −0.0001318
Std Dev 0.1881
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

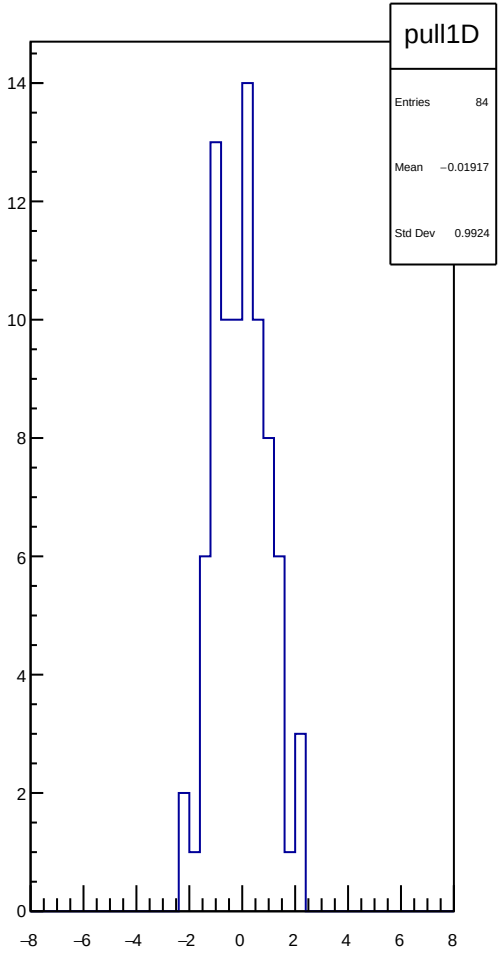

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 146.7 / 83
p0 −284.8 ± 0.4945
pull
Entries 84
Mean −213.4
Std Dev 0

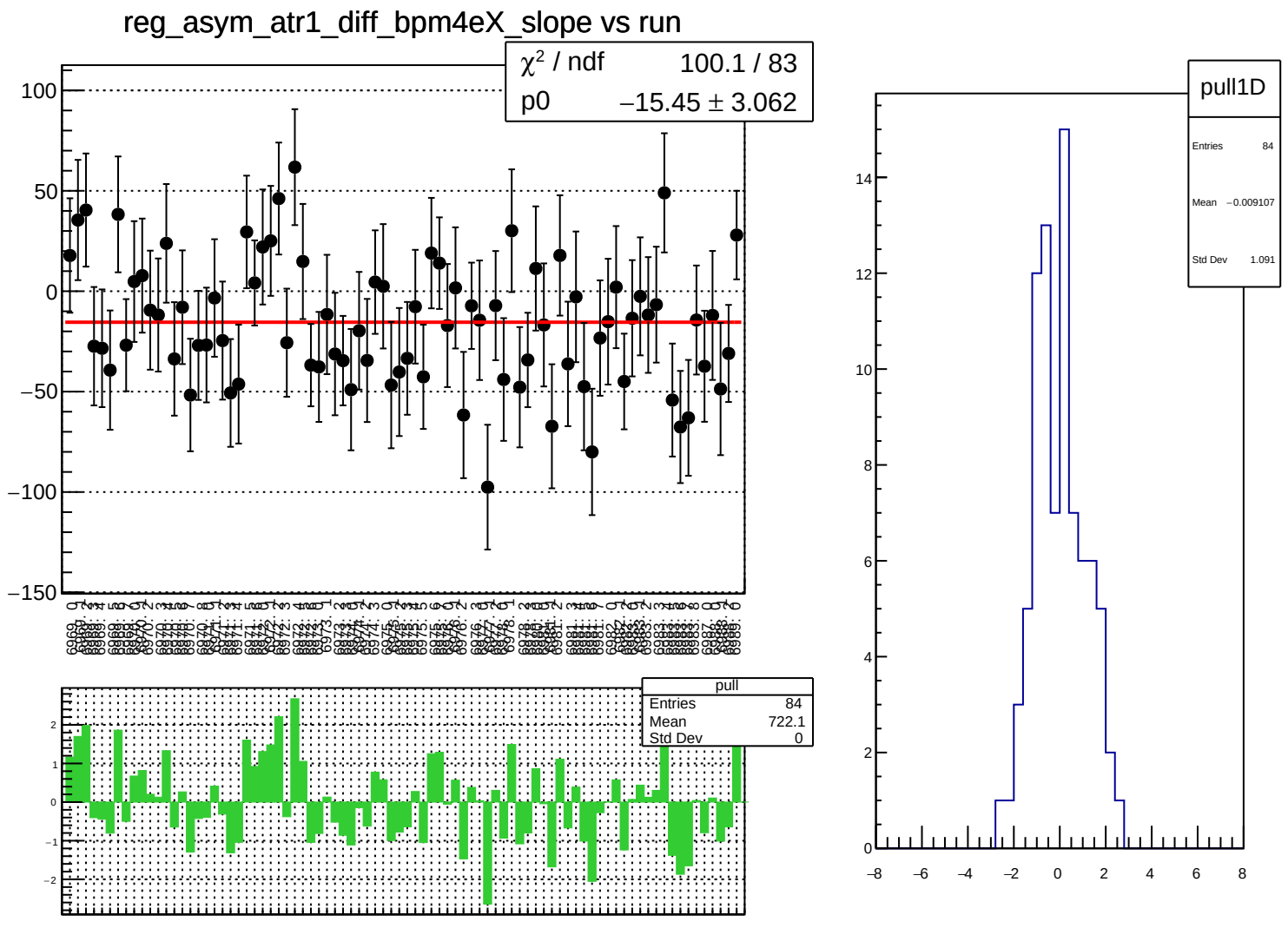

pull1D
Entries 84
Mean −0.09369
Std Dev 1.318

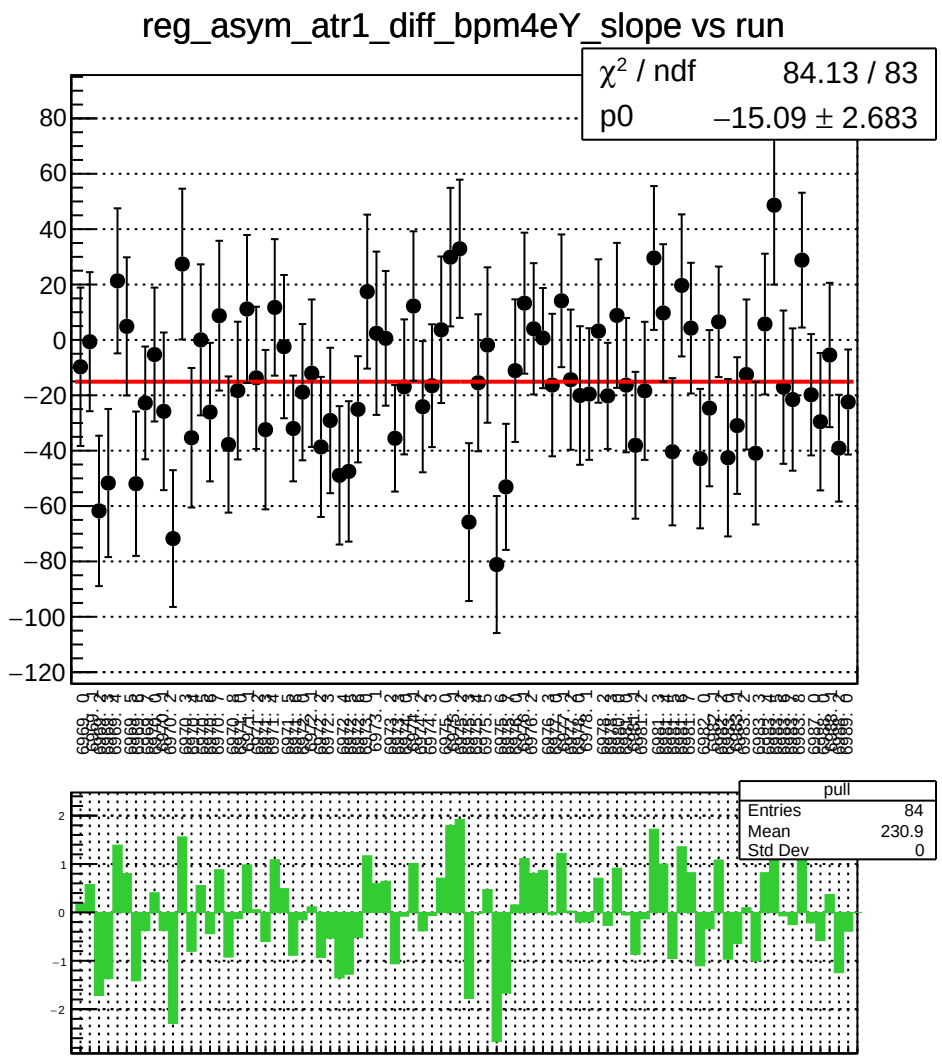

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 98.65 / 83
p0 −47.31 ± 3.335
100
50
0
−50
−100
−150
pull
Entries 84
Mean 668.7
Std Dev 0
3
2
1
0
−1
−2

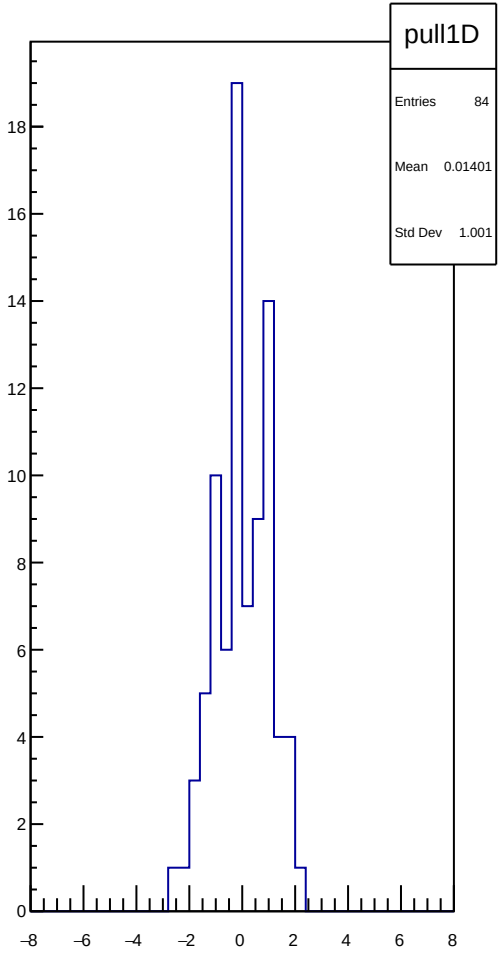

pull1D
Entries 84
Mean 0.009919
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

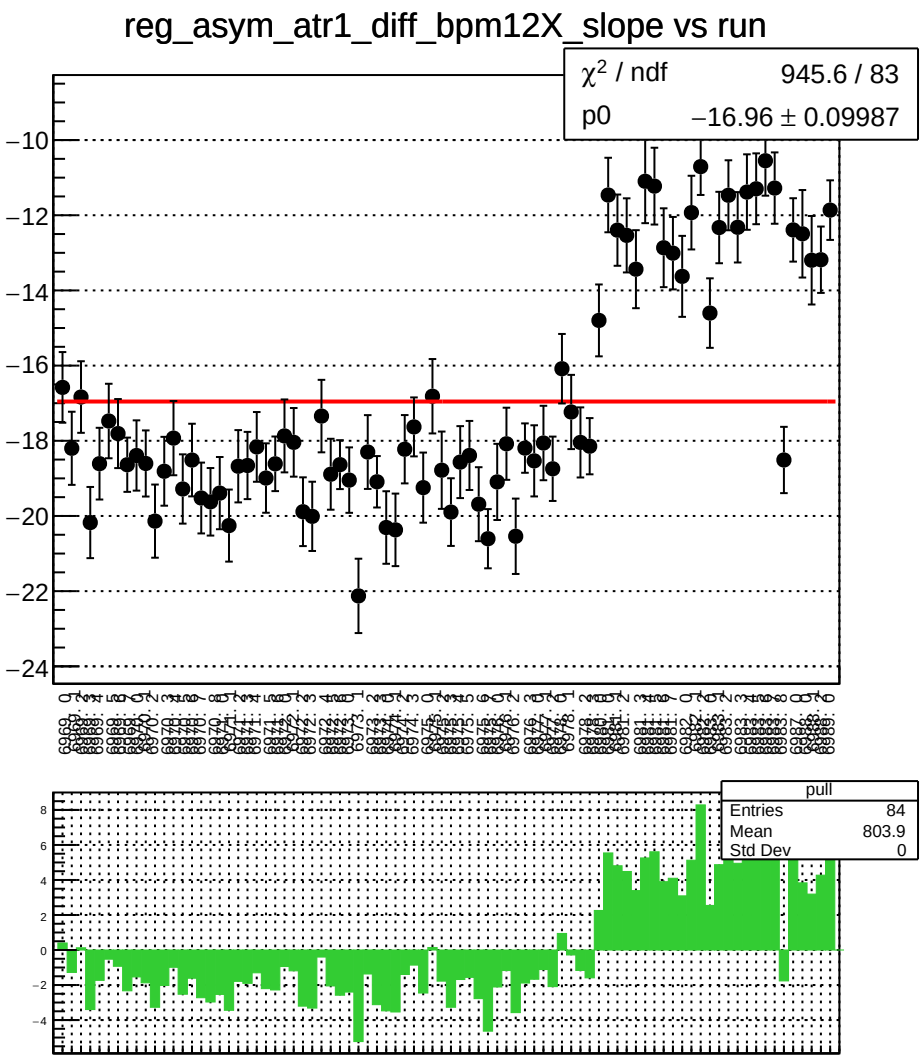

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 82.76 / 83
p0 7.9 ± 2.348
pull
Entries 84
Mean 167.5
Std Dev 0

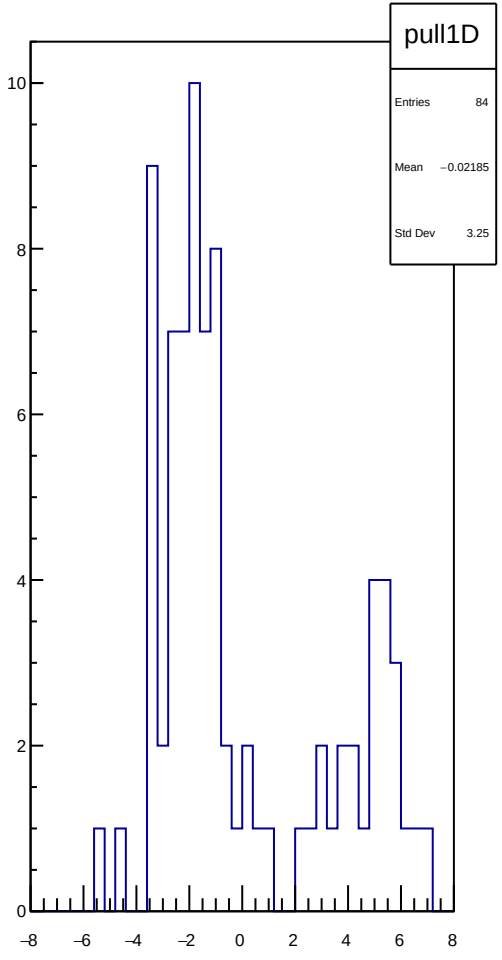

pull1D
Entries 84
Mean −0.01917
Std Dev 0.9924

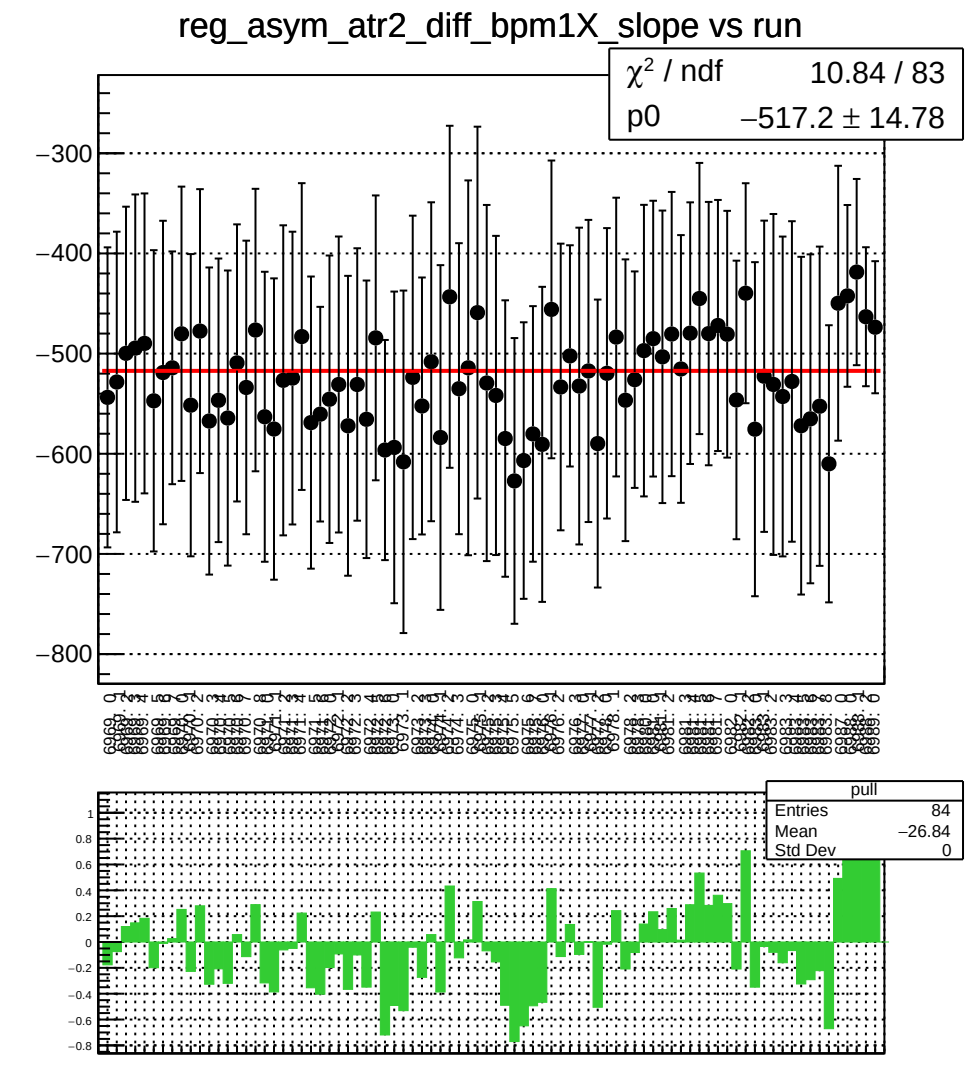

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 100.1 / 83
p0 −15.45 ± 3.062
pull
Entries 84
Mean 722.1
Std Dev 0
pull1D
Entries 84
Mean −0.009107
Std Dev 1.091

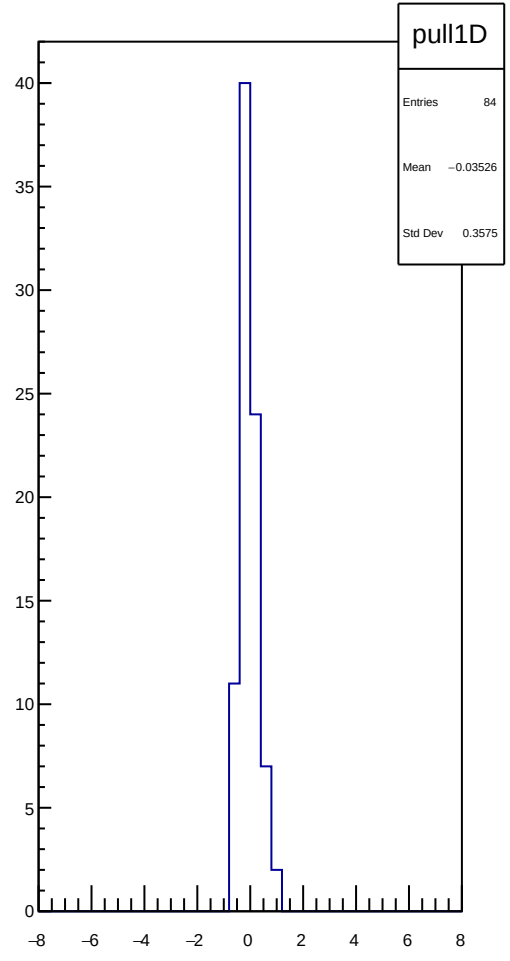

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 84.13 / 83
p0 −15.09 ± 2.683
pull
Entries 84
Mean 230.9
Std Dev 0

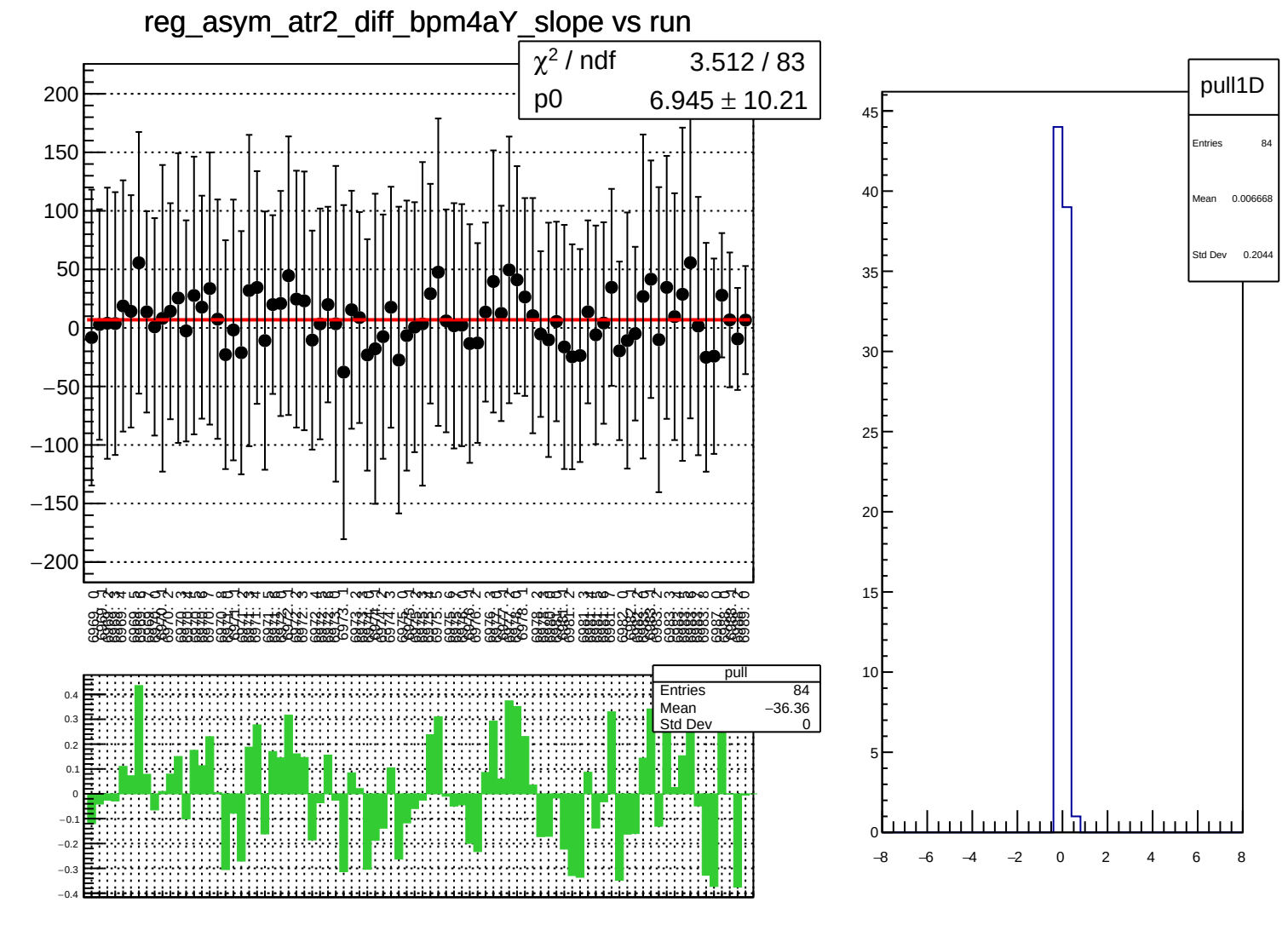

pull1D
Entries 84
Mean 0.01401
Std Dev 1.001

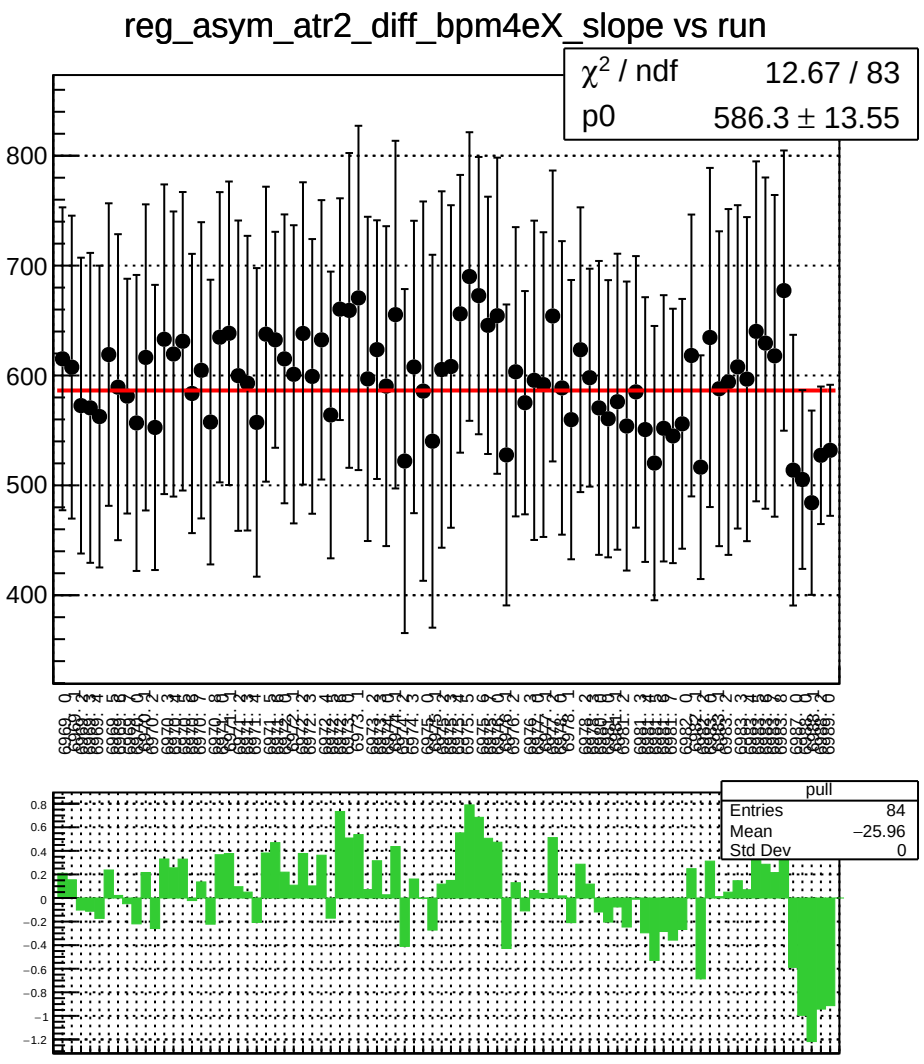

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 945.6 / 83
p0 −16.96 ± 0.09987
pull
Entries 84
Mean 803.9
Std Dev 0

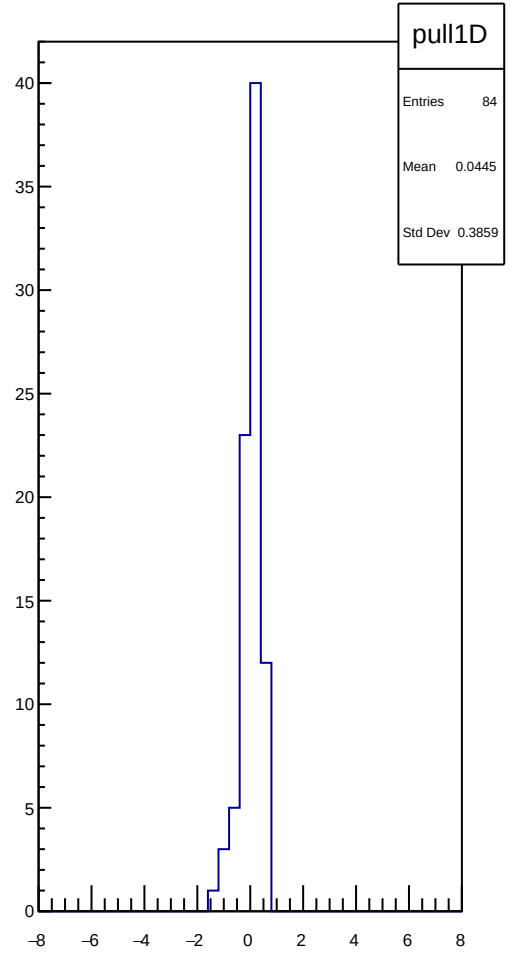

pull1D
Entries 84
Mean −0.02185
Std Dev 3.25

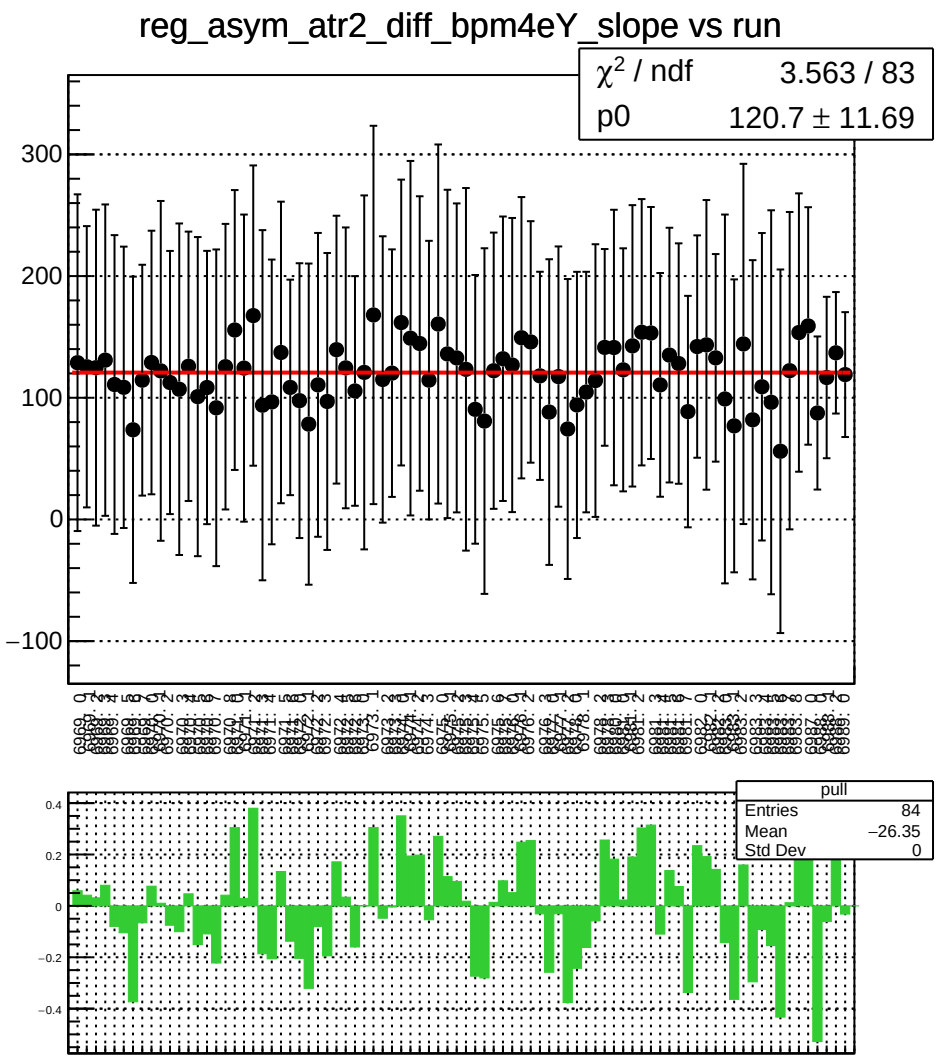

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 10.84 / 83
p0 −517.2 ± 14.78
pull
Entries 84
Mean −26.84
Std Dev 0

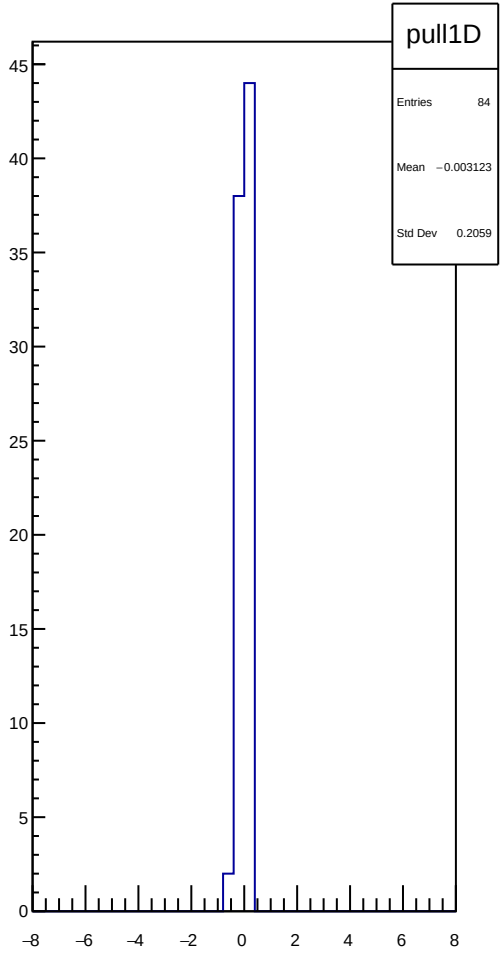

pull1D
Entries 84
Mean −0.03526
Std Dev 0.3575

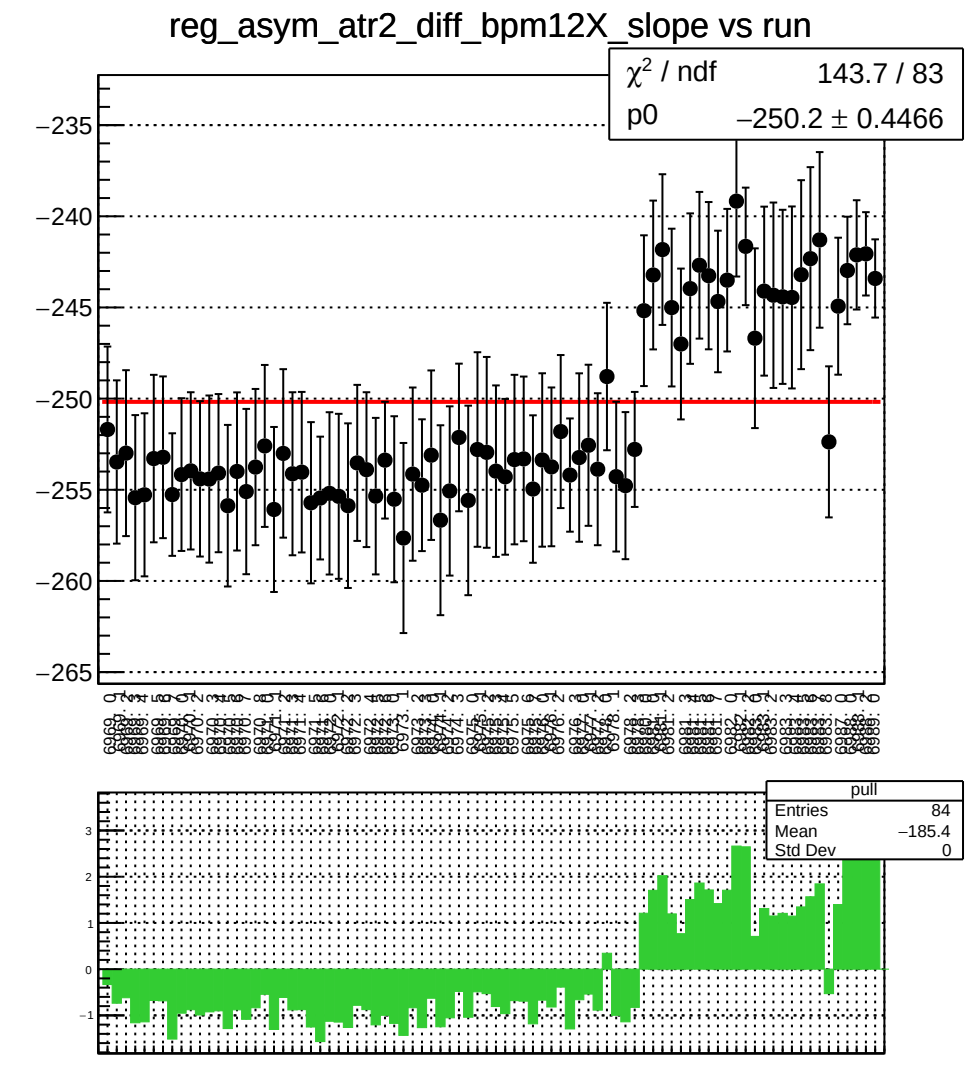

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.512 / 83
p0 6.945 ± 10.21
pull
Entries 84
Mean −36.36
Std Dev 0
pull1D
Entries 84
Mean 0.006668
Std Dev 0.2044

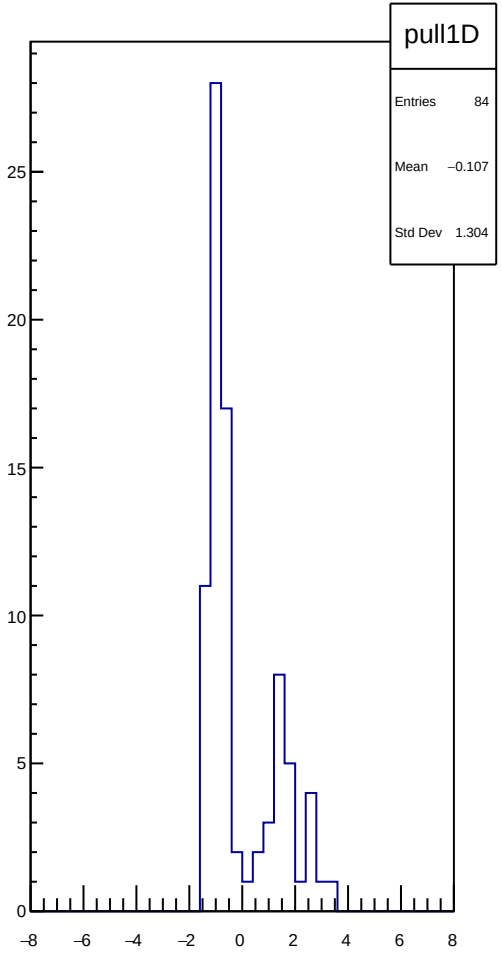

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 12.67 / 83
p0 586.3 ± 13.55
800
700
600
500
400
pull
Entries 84
Mean −25.96
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

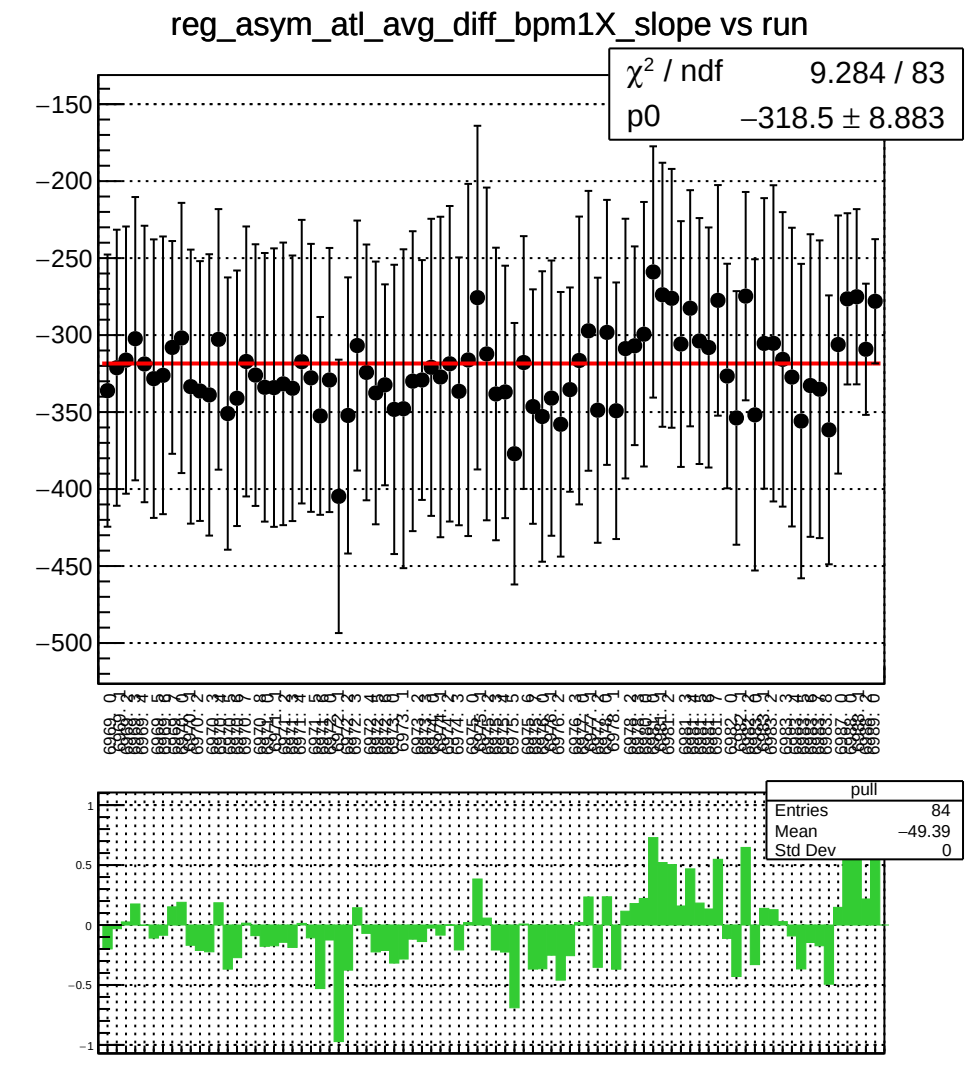

pull1D
Entries 84
Mean 0.0445
Std Dev 0.3859
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

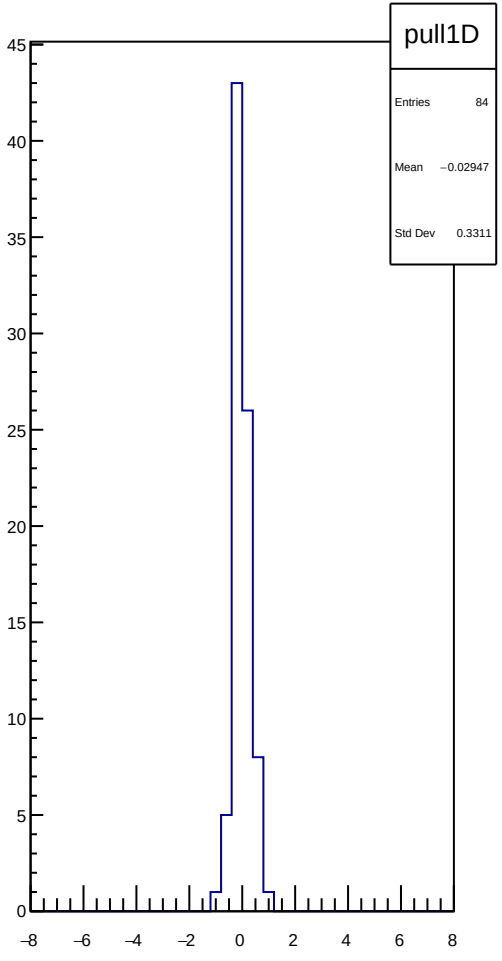

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.563 / 83
p0 120.7 ± 11.69
300
200
100
0
−100
pull
Entries 84
Mean −26.35
Std Dev 0
0.4
0.2
0
−0.2
−0.4

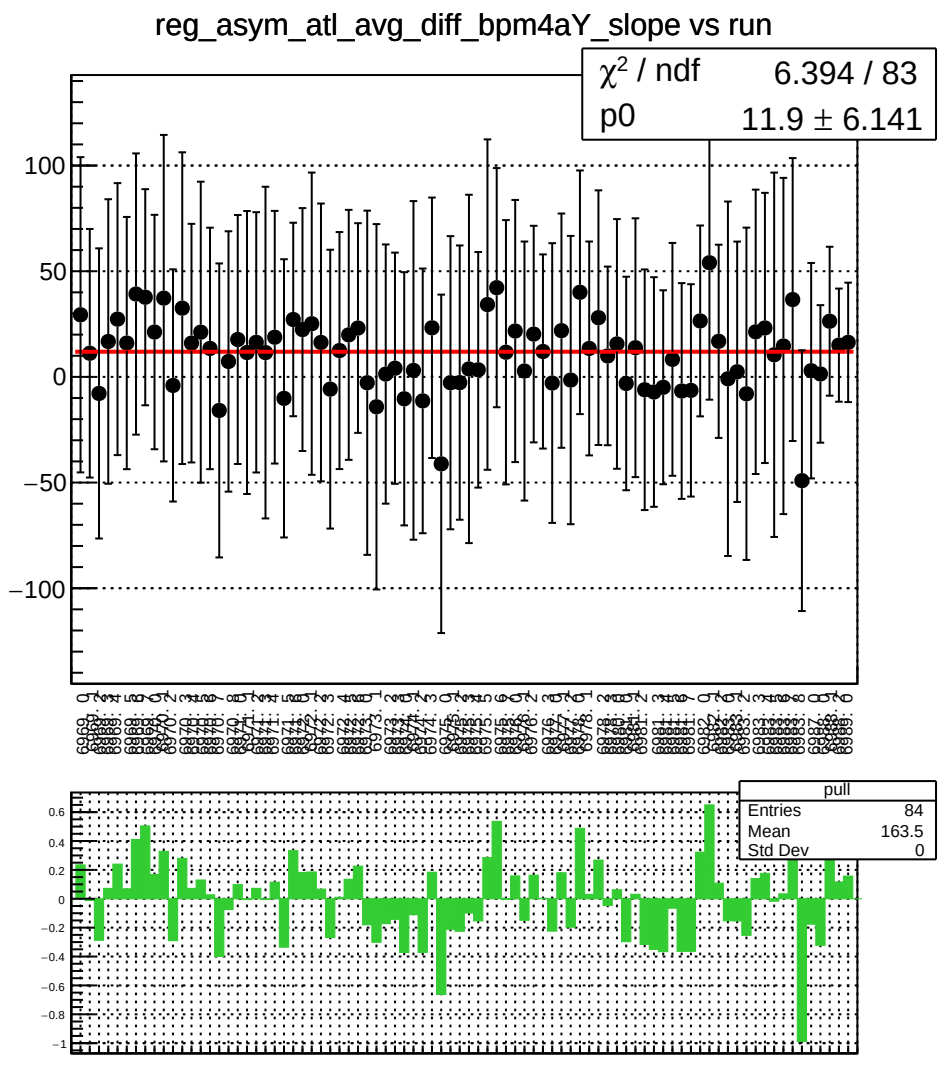

pull1D
Entries 84
Mean −0.003123
Std Dev 0.2059
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

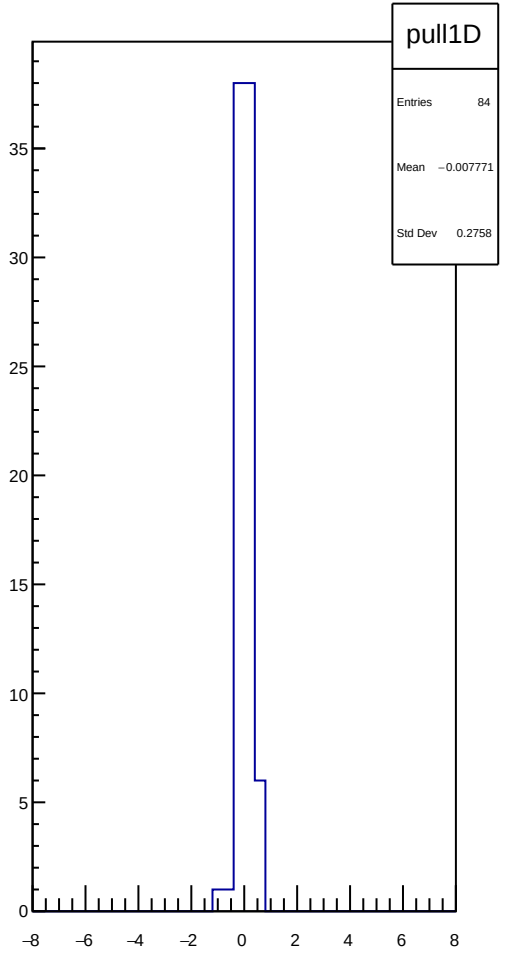

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 143.7 / 83
p0 −250.2 ± 0.4466
pull
Entries 84
Mean −185.4
Std Dev 0

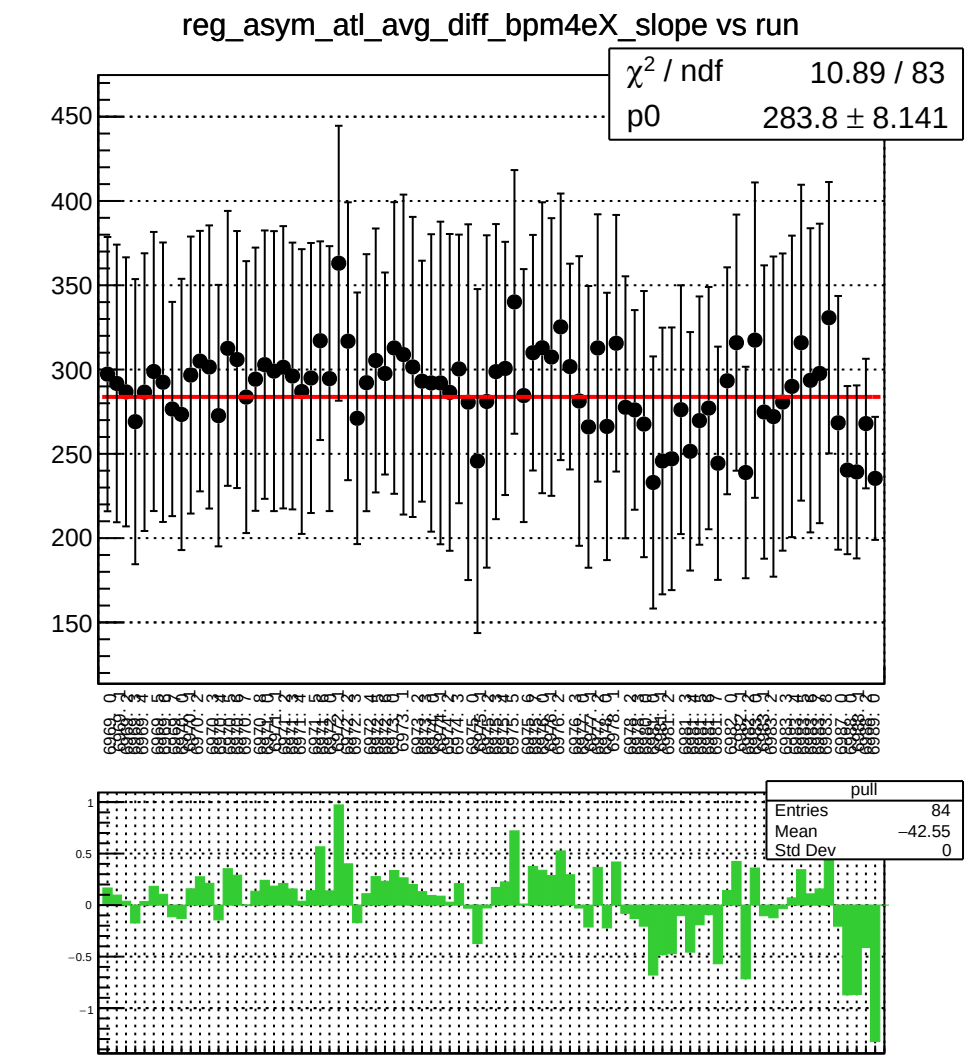

pull1D
Entries 84
Mean −0.107
Std Dev 1.304

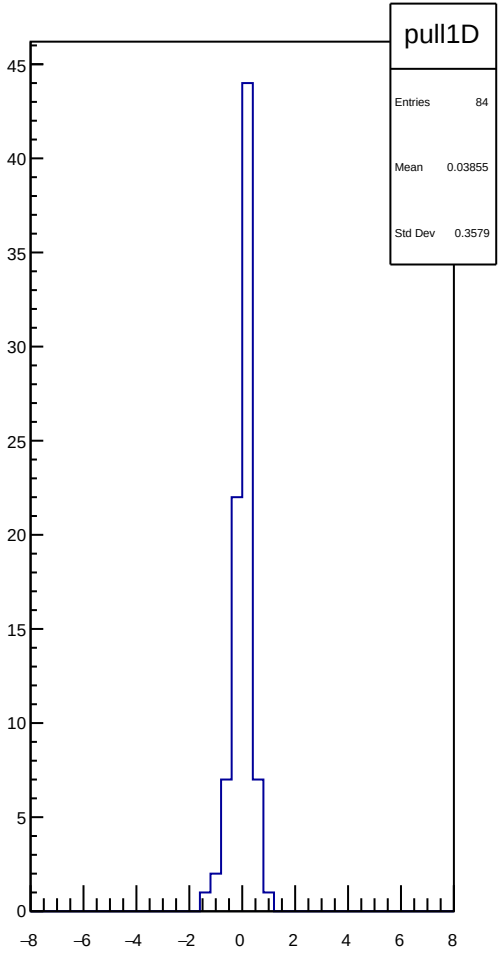

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 9.284 / 83
p0 −318.5 ± 8.883
pull
Entries 84
Mean −49.39
Std Dev 0

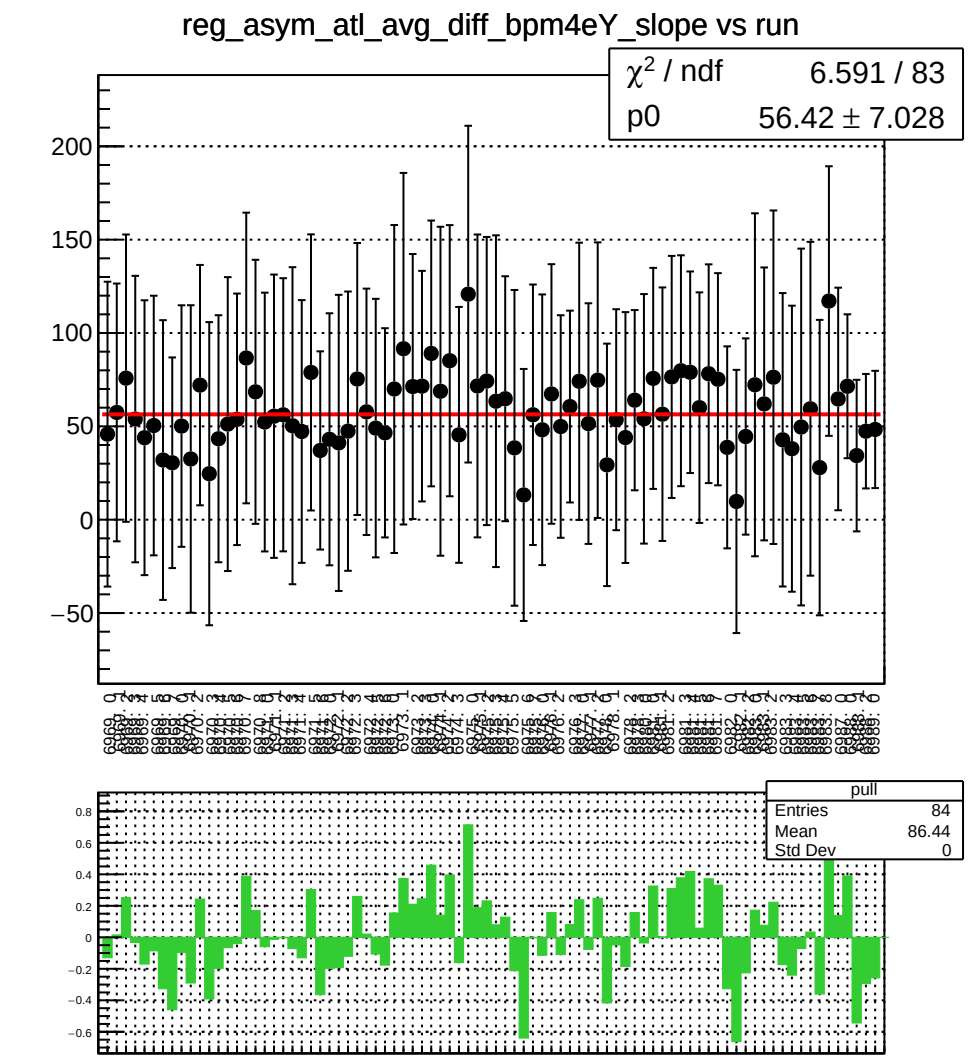

pull1D
Entries 84
Mean −0.02947
Std Dev 0.3311

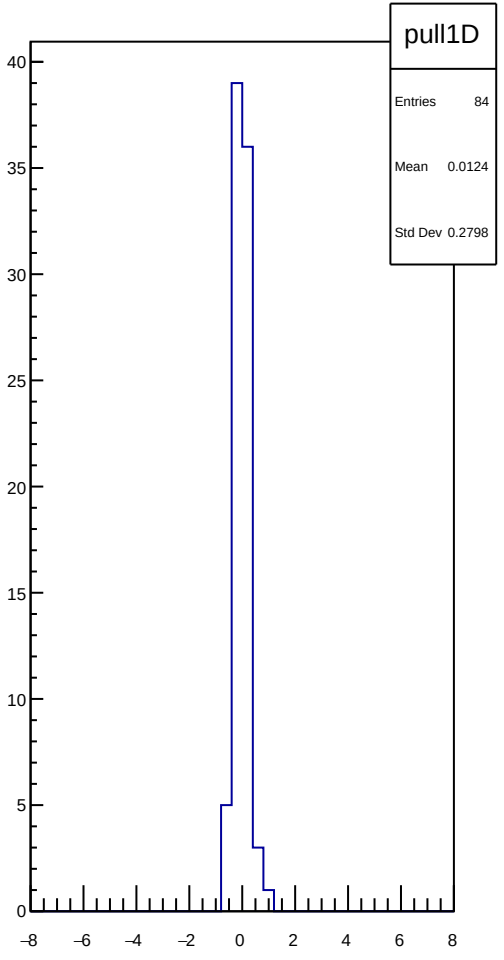

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.394 / 83
p0 11.9 ± 6.141
100
50
0
−50
−100
pull
Entries 84
Mean 163.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

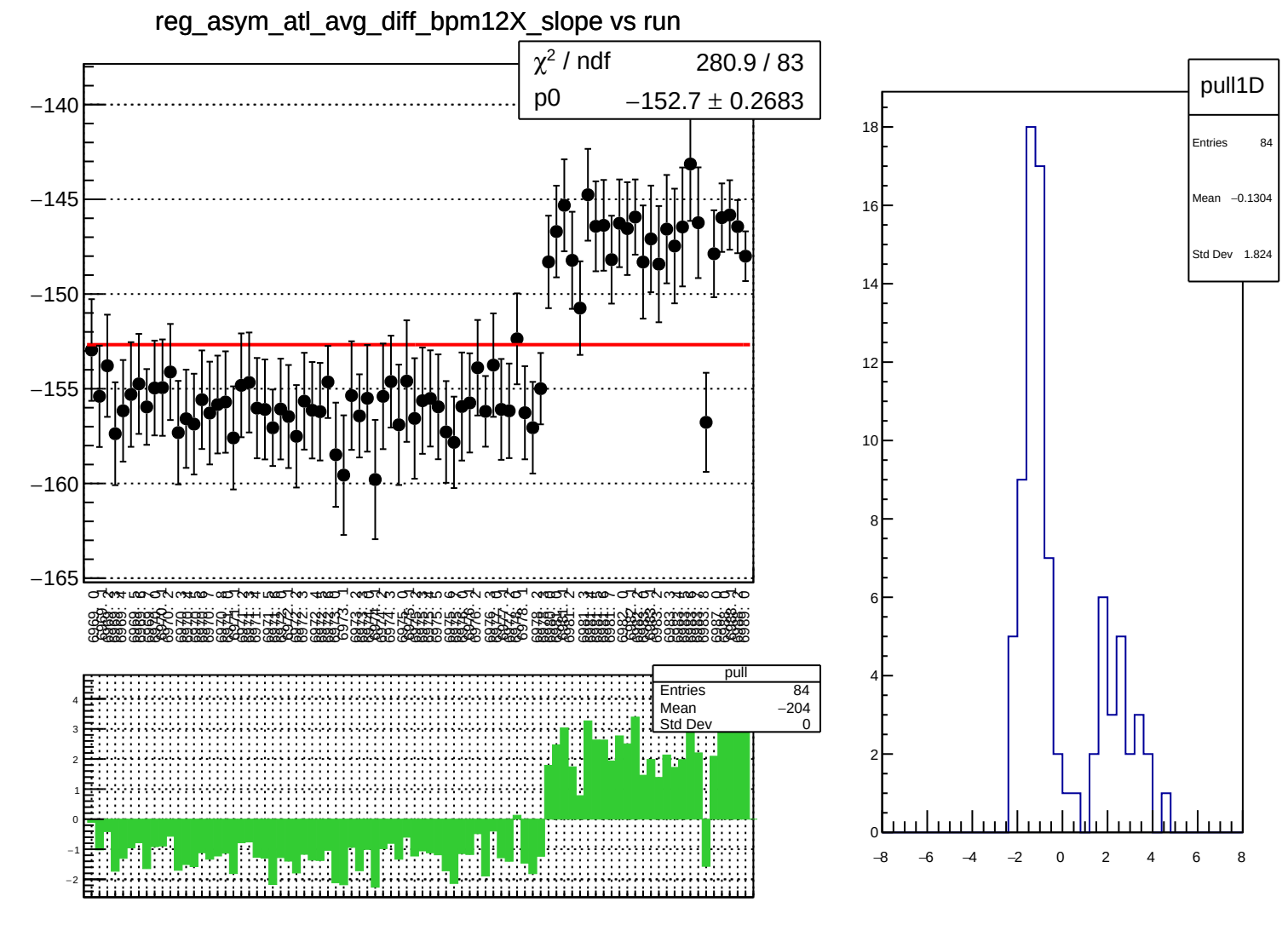

pull1D
Entries 84
Mean −0.007771
Std Dev 0.2758
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

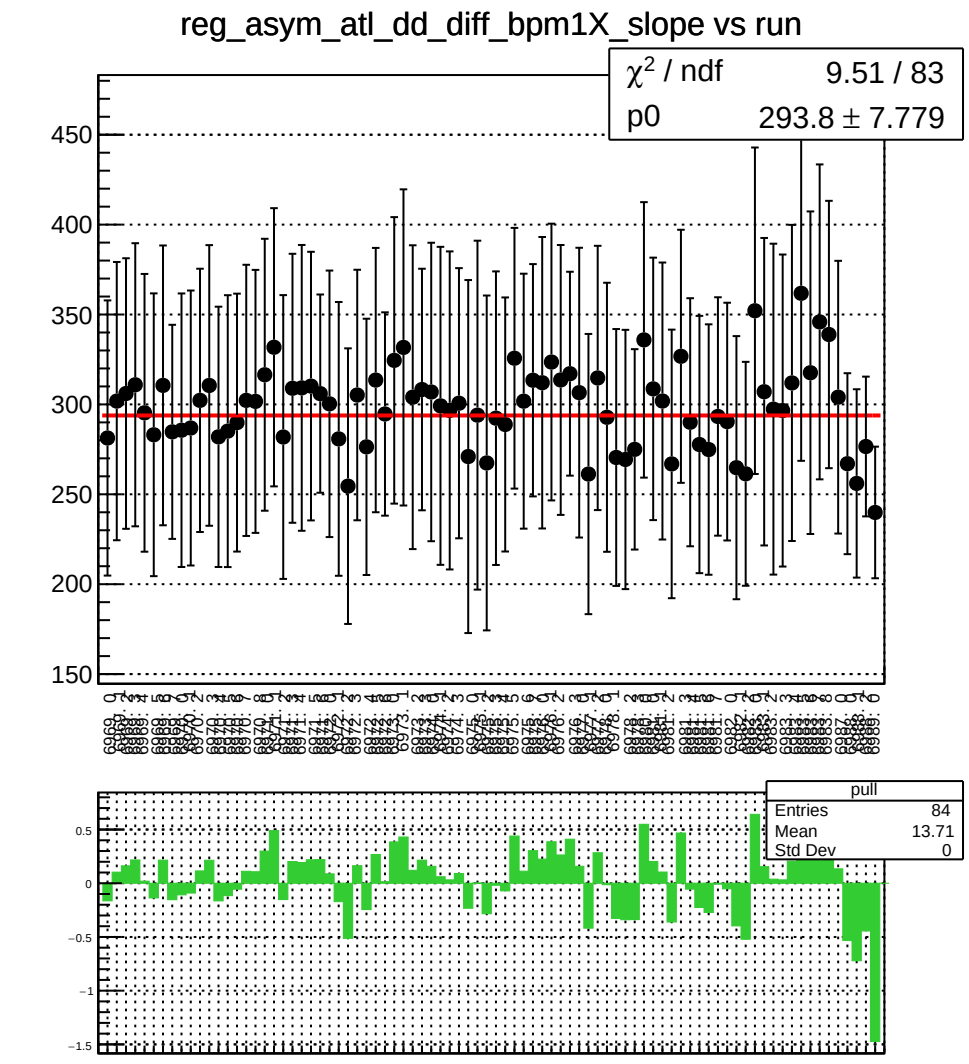

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.89 / 83
p0 283.8 ± 8.141
pull
Entries 84
Mean −42.55
Std Dev 0

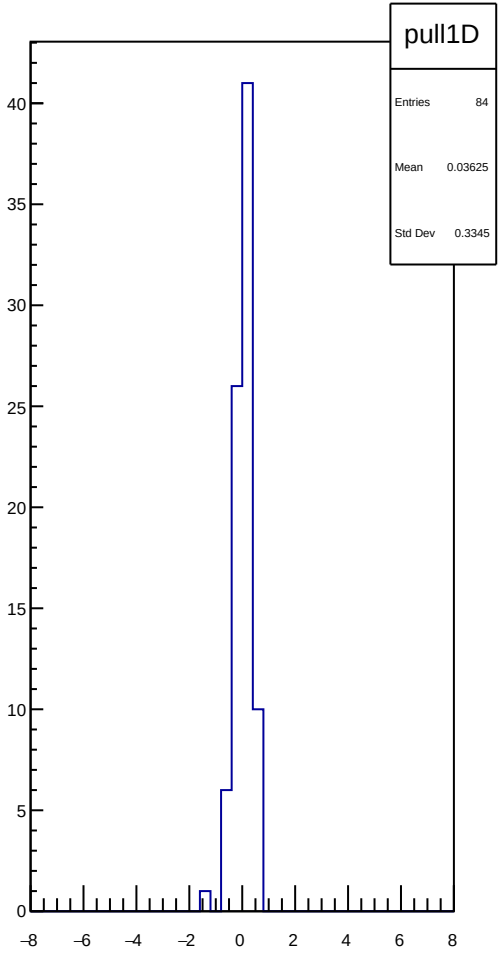

pull1D
Entries 84
Mean 0.03855
Std Dev 0.3579

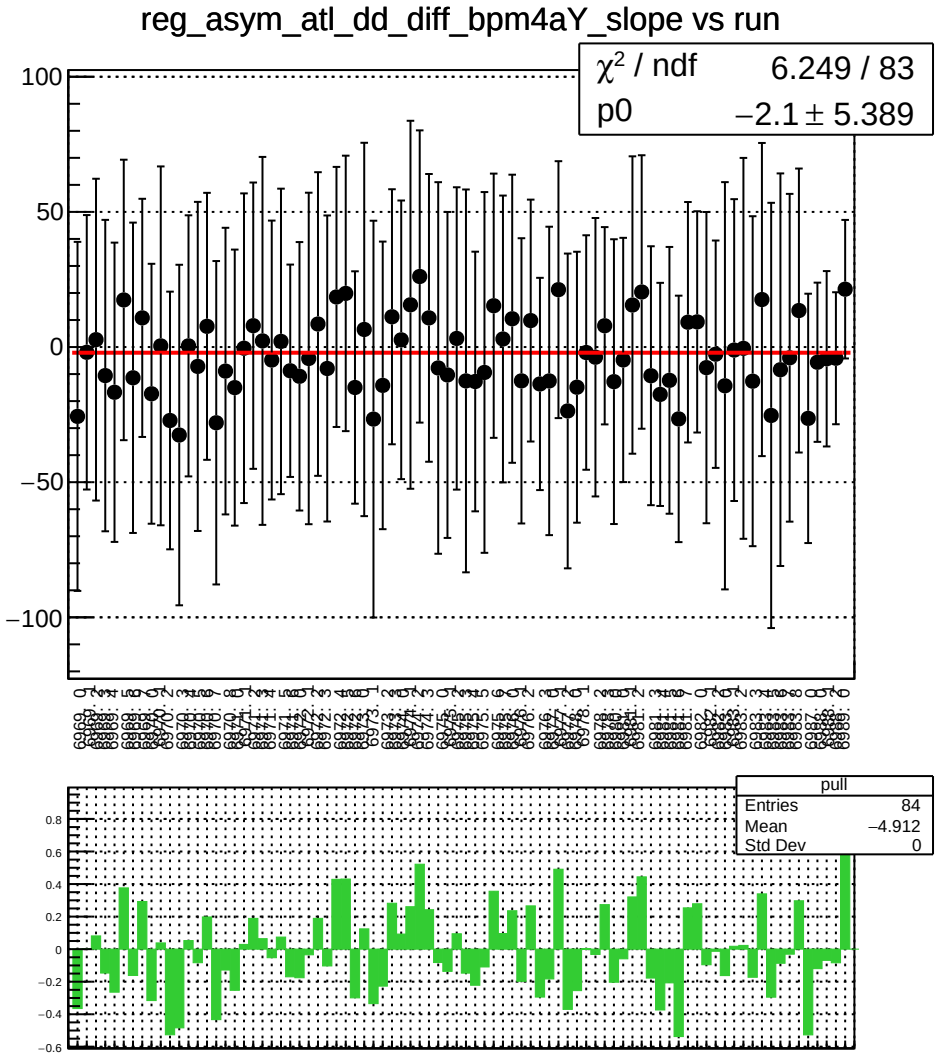

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.591 / 83
p0 56.42 ± 7.028
200
150
100
50
0
−50
pull
Entries 84
Mean 86.44
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

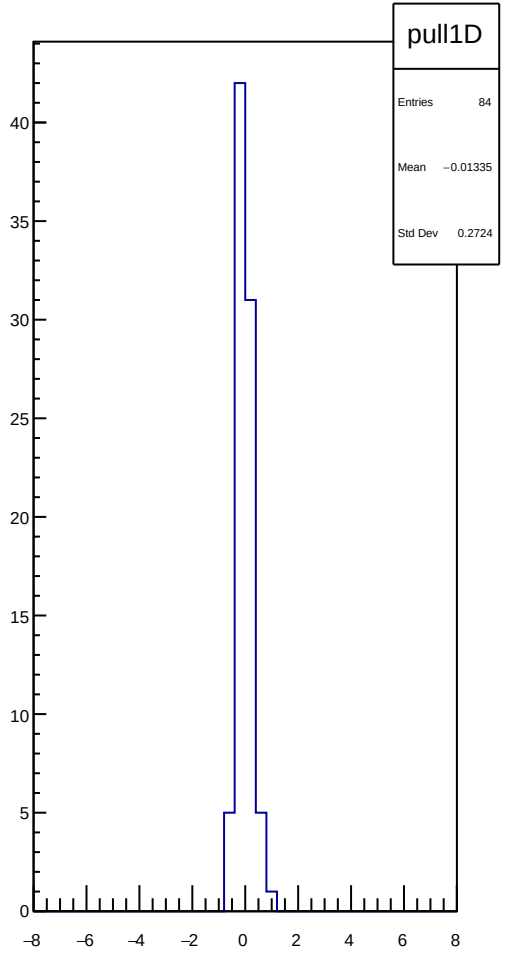

pull1D
Entries 84
Mean 0.0124
Std Dev 0.2798
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

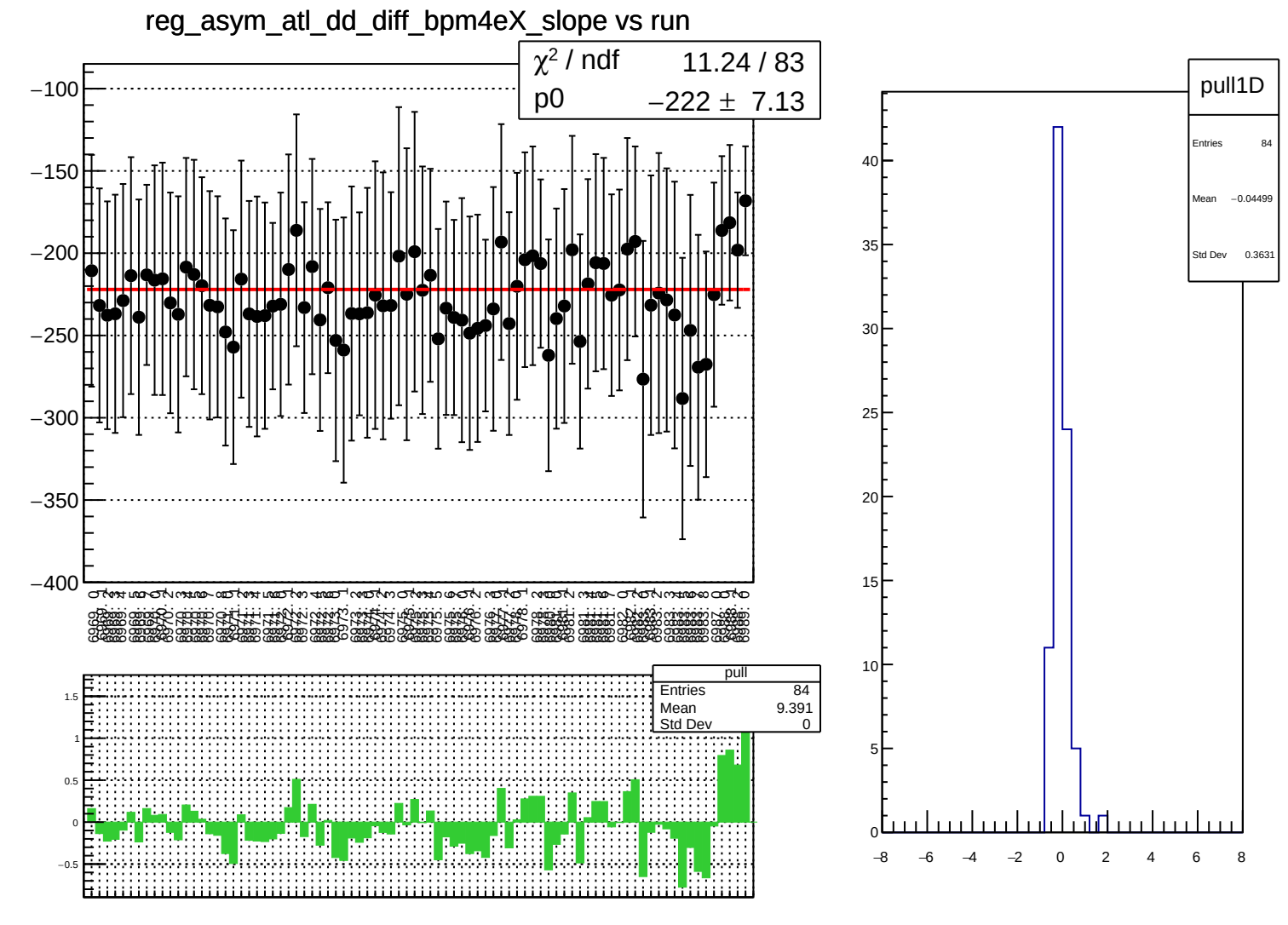

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 280.9 / 83
p0 −152.7 ± 0.2683
pull
Entries 84
Mean −204
Std Dev 0
pull1D
Entries 84
Mean −0.1304
Std Dev 1.824

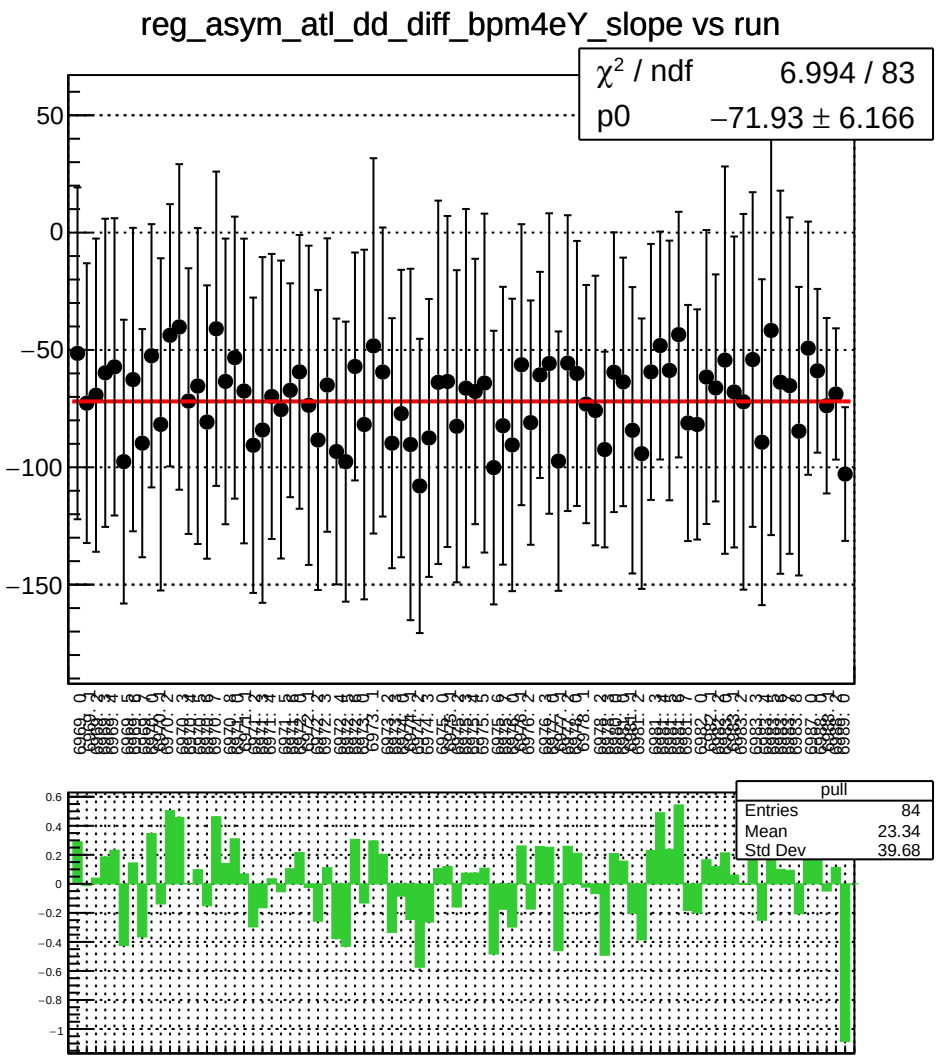

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 9.51 / 83
p0 293.8 ± 7.779
pull
Entries 84
Mean 13.71
Std Dev 0

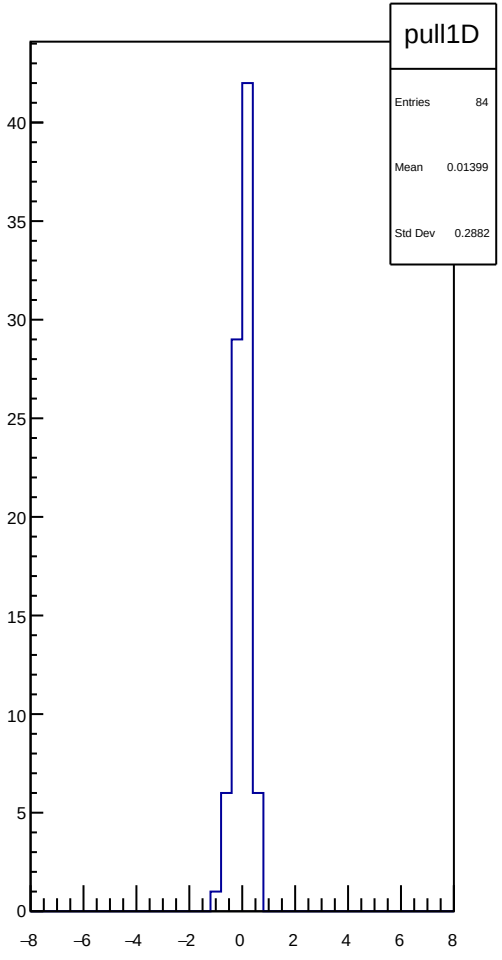

pull1D
Entries 84
Mean 0.03625
Std Dev 0.3345

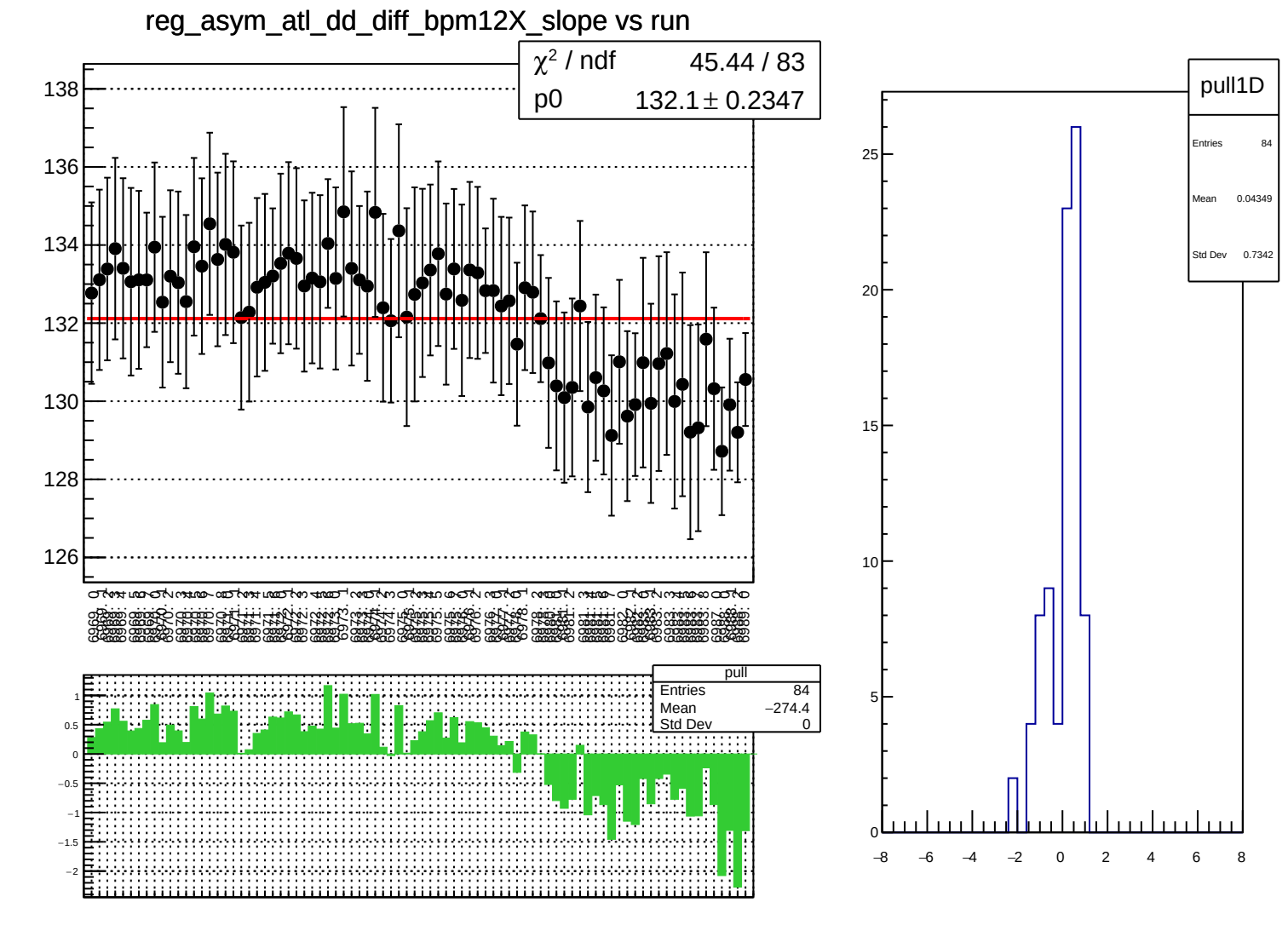

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.249 / 83
p0 −2.1 ± 5.389
100
50
0
−50
−100
pull
Entries 84
Mean −4.912
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

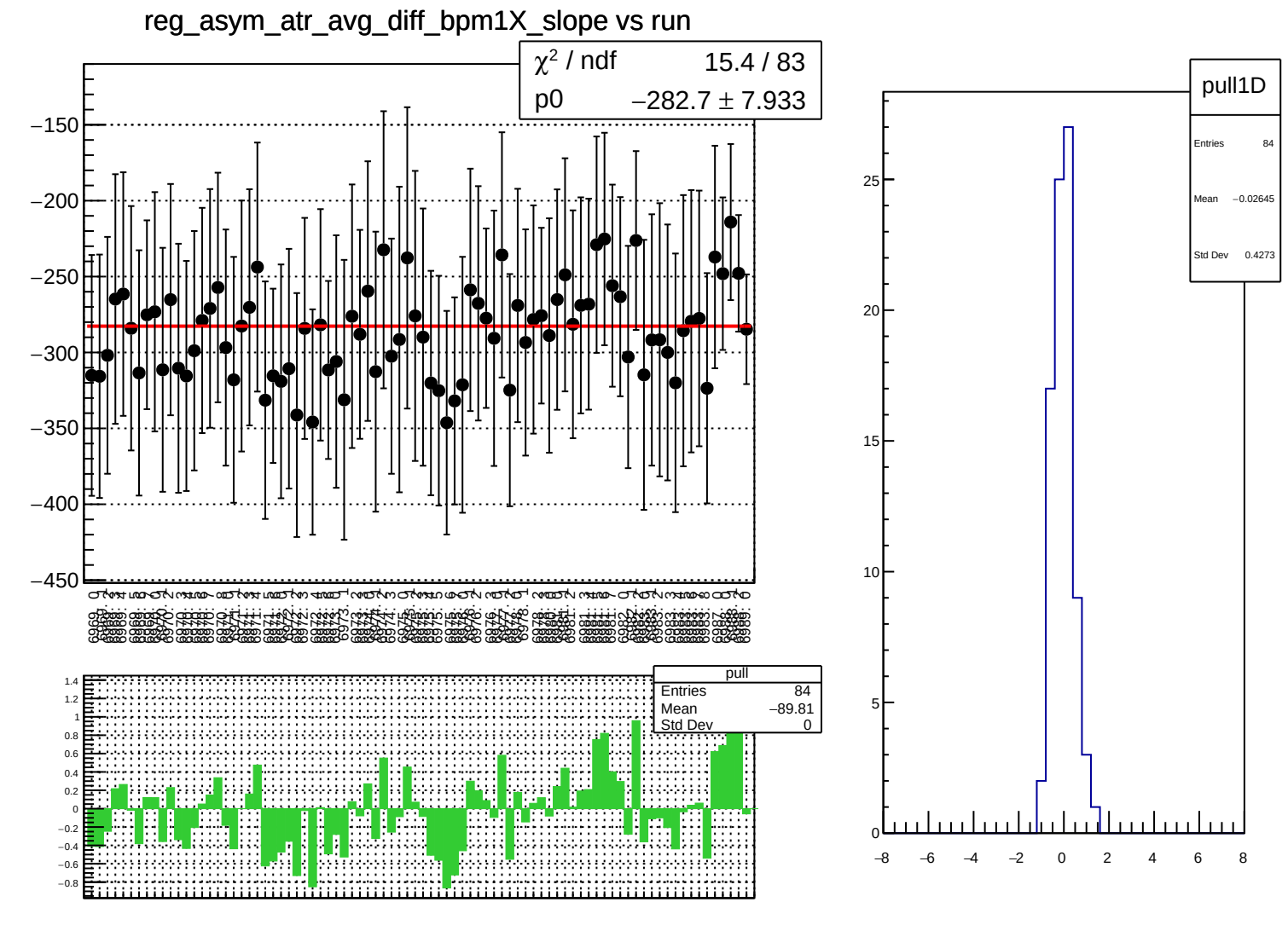

pull1D
Entries 84
Mean −0.01335
Std Dev 0.2724
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

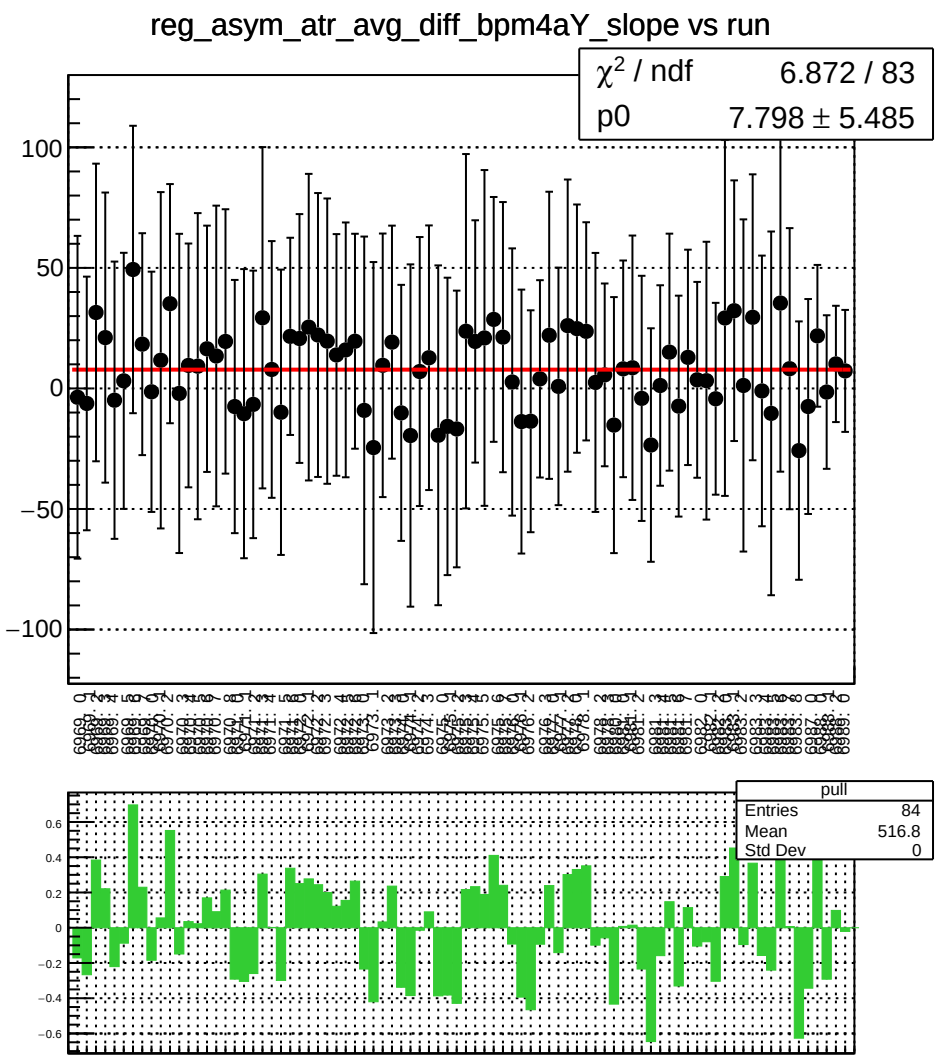

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.24 / 83
p0 −222 ± 7.13
−100
−150
−200
−250
−300
−350
−400
pull
Entries 84
Mean 9.391
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 84
Mean −0.04499
Std Dev 0.3631
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

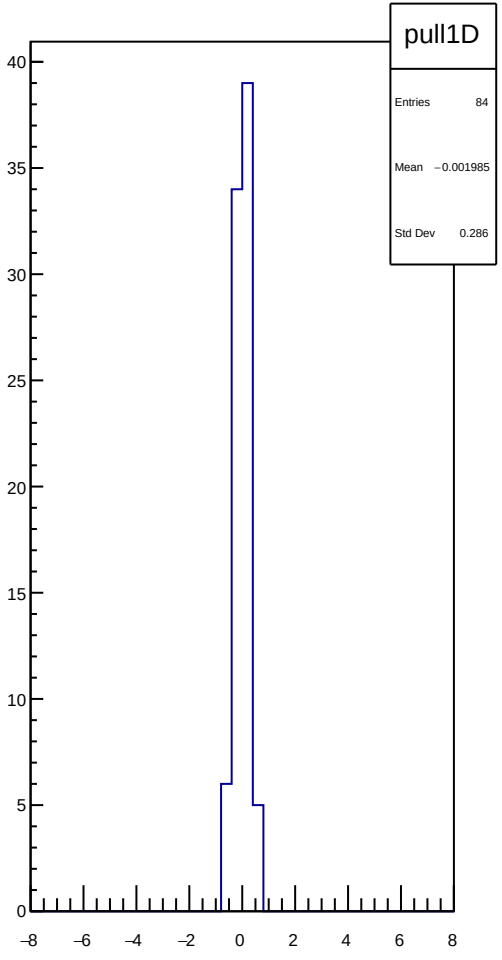

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.994 / 83
p0 −71.93 ± 6.166
pull
Entries 84
Mean 23.34
Std Dev 39.68

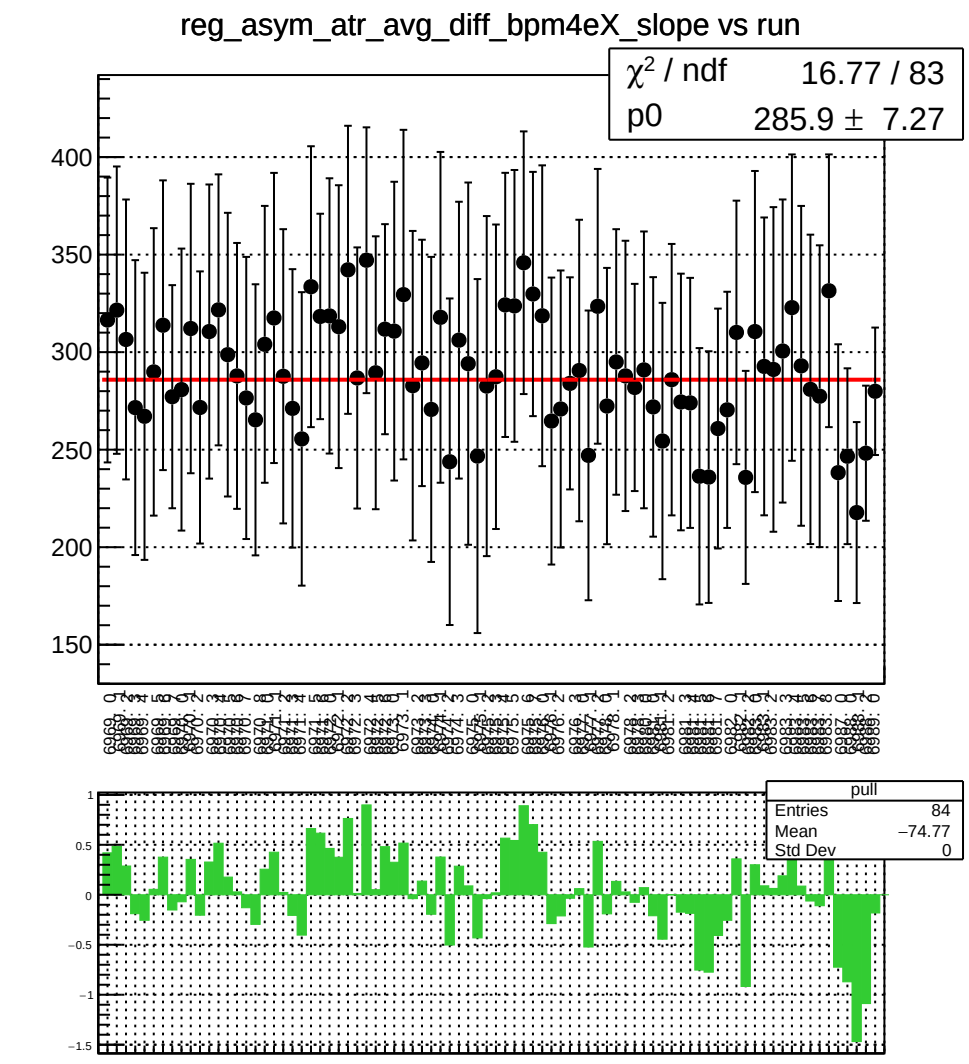

pull1D
Entries 84
Mean 0.01399
Std Dev 0.2882

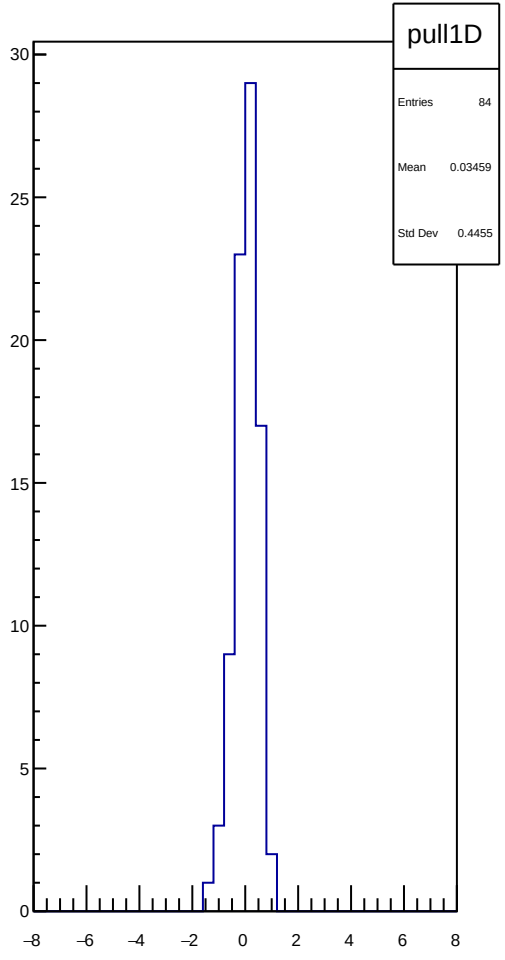

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 45.44 / 83
p0 132.1 ± 0.2347
pull
Entries 84
Mean −274.4
Std Dev 0
pull1D
Entries 84
Mean 0.04349
Std Dev 0.7342

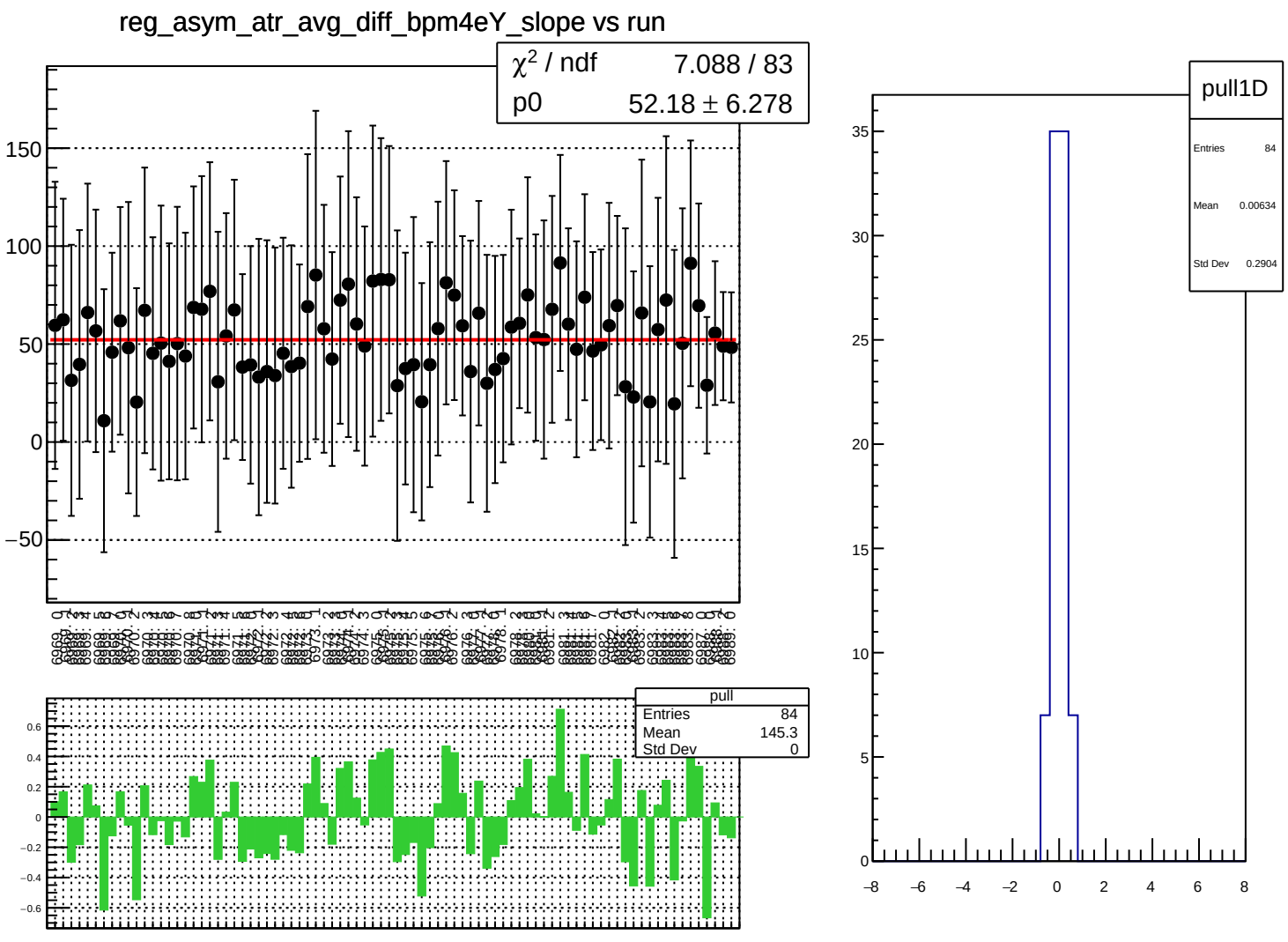

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 15.4 / 83
p0 −282.7 ± 7.933
−150
−200
−250
−300
−350
−400
−450
pull
Entries 84
Mean −89.81
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 84
Mean −0.02645
Std Dev 0.4273
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

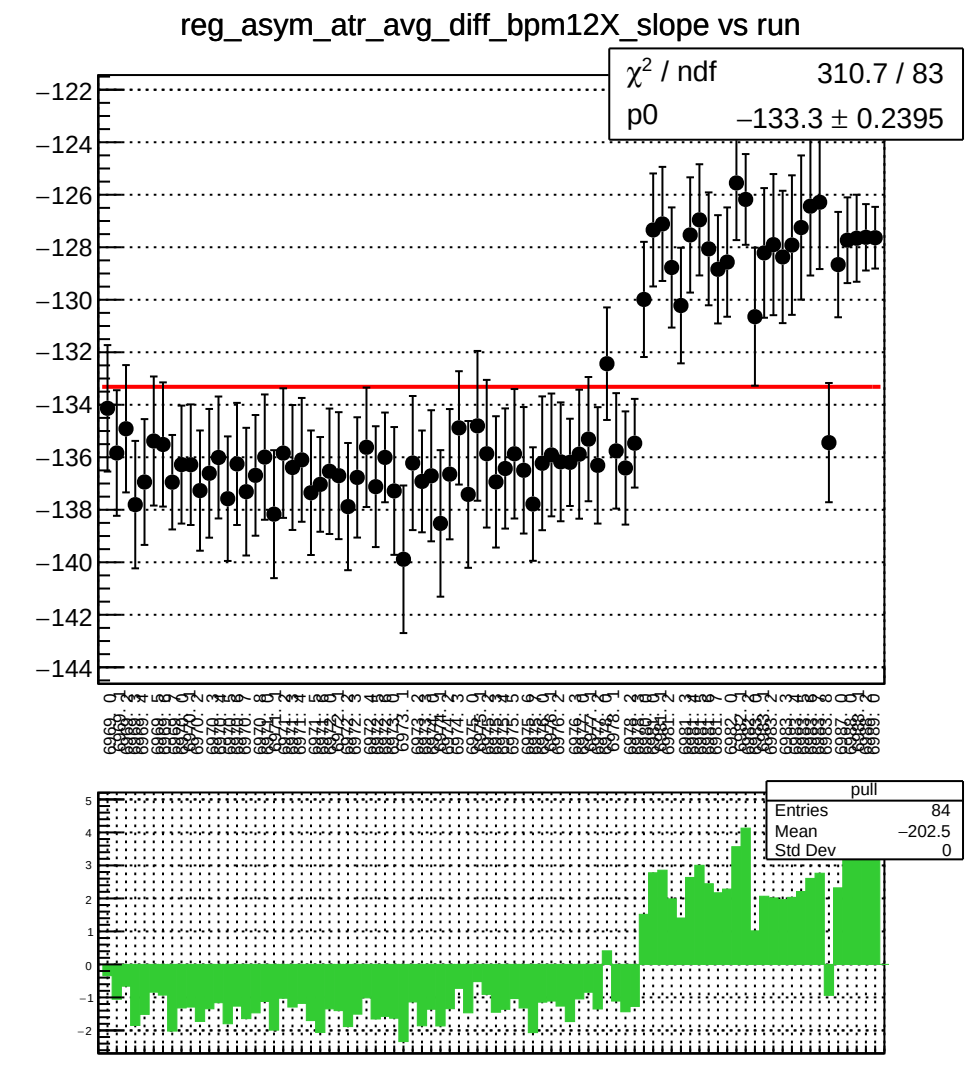

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.872 / 83
p0 7.798 ± 5.485
pull
Entries 84
Mean 516.8
Std Dev 0

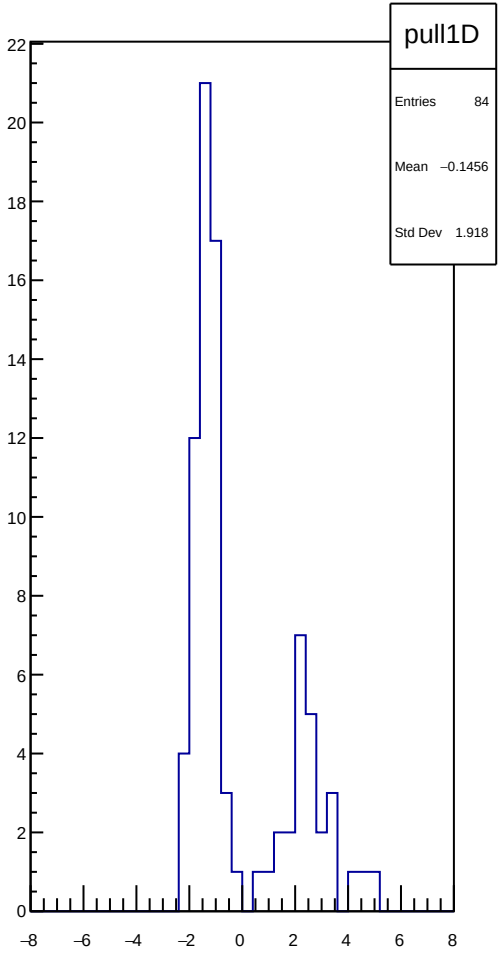

pull1D
Entries 84
Mean −0.001985
Std Dev 0.286

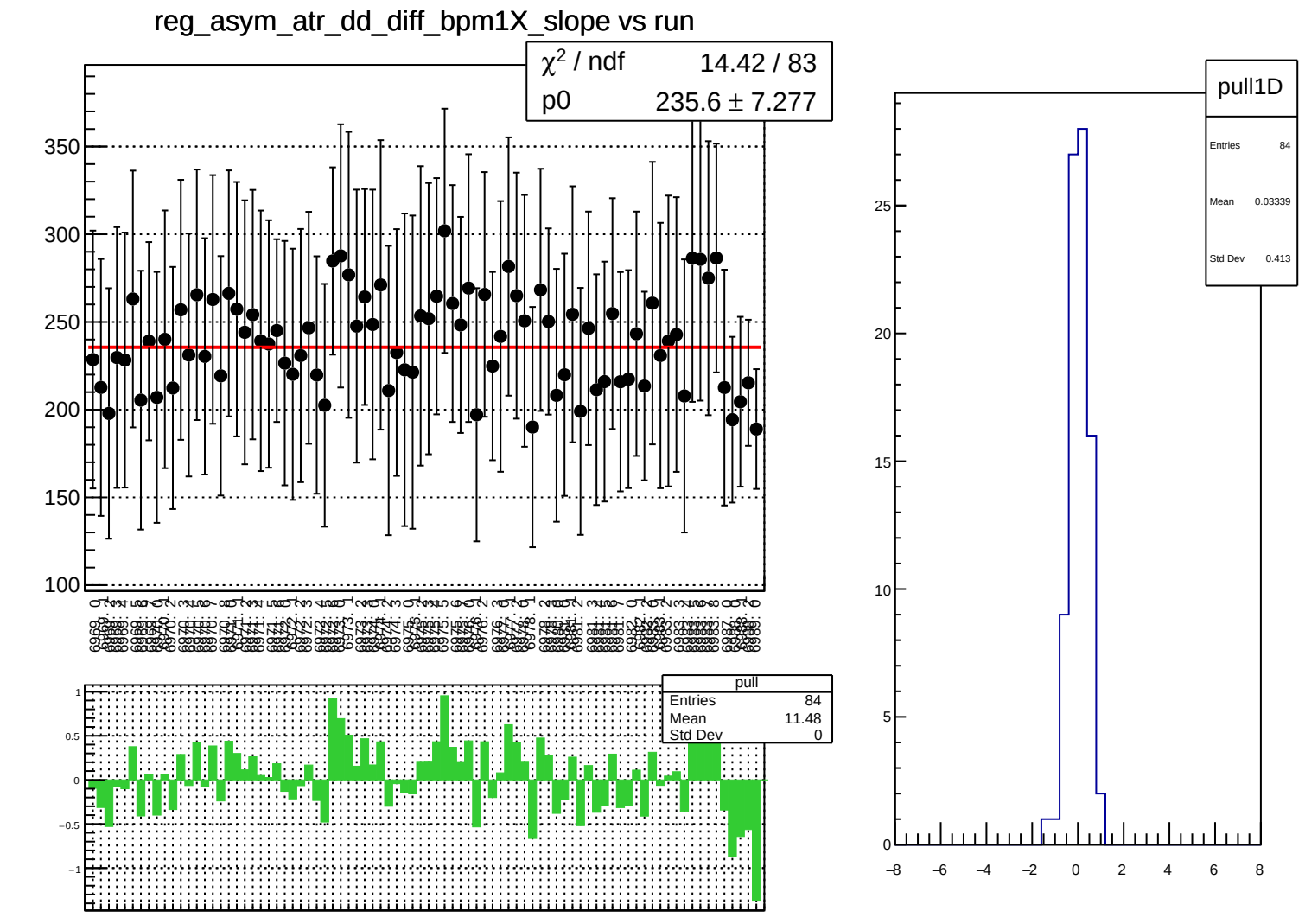

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.77 / 83
p0 285.9 ± 7.27
400
350
300
250
200
150
pull
Entries 84
Mean −74.77
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

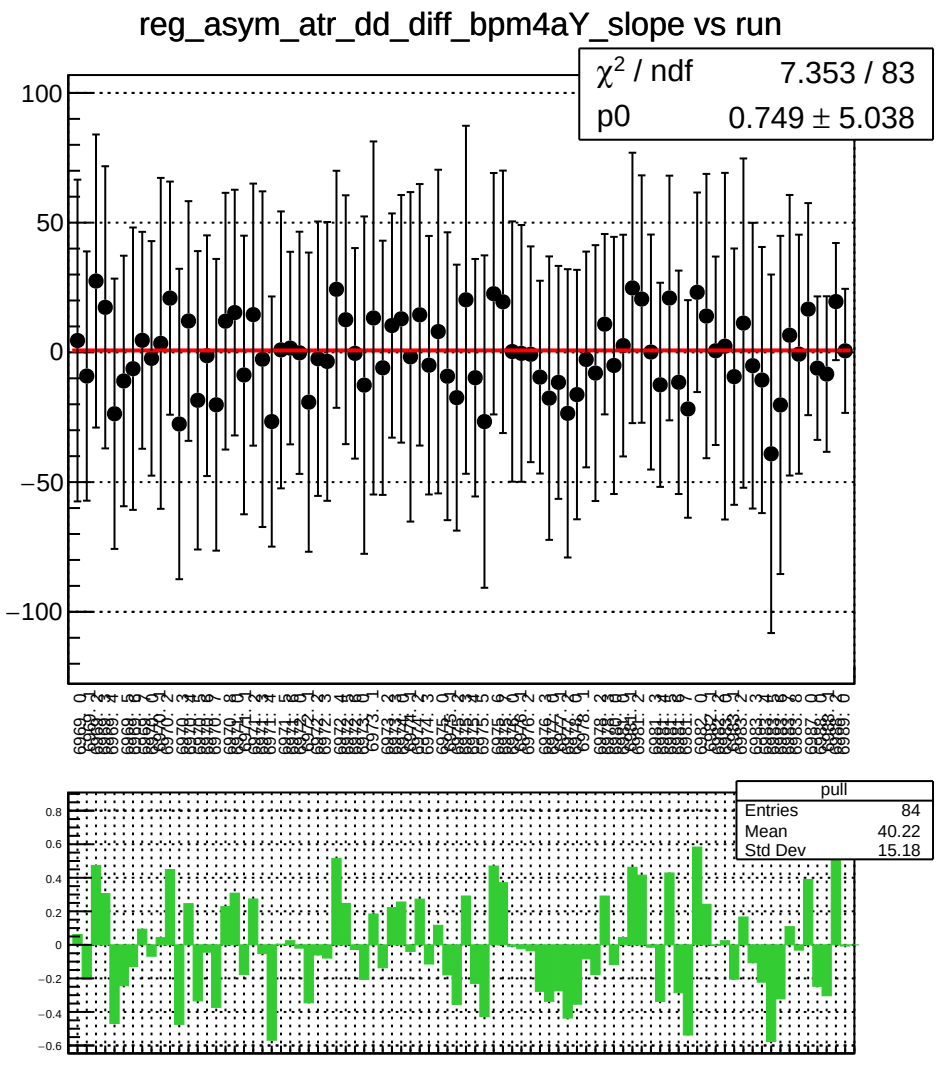

pull1D
Entries 84
Mean 0.03459
Std Dev 0.4455
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

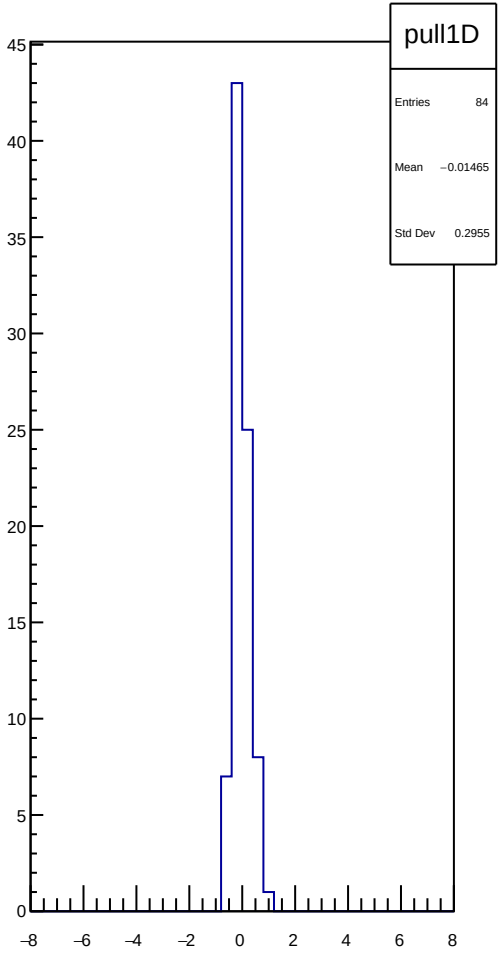

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.088 / 83
p0 52.18 ± 6.278
150
100
50
0
−50
pull
Entries 84
Mean 145.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 84
Mean 0.00634
Std Dev 0.2904
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

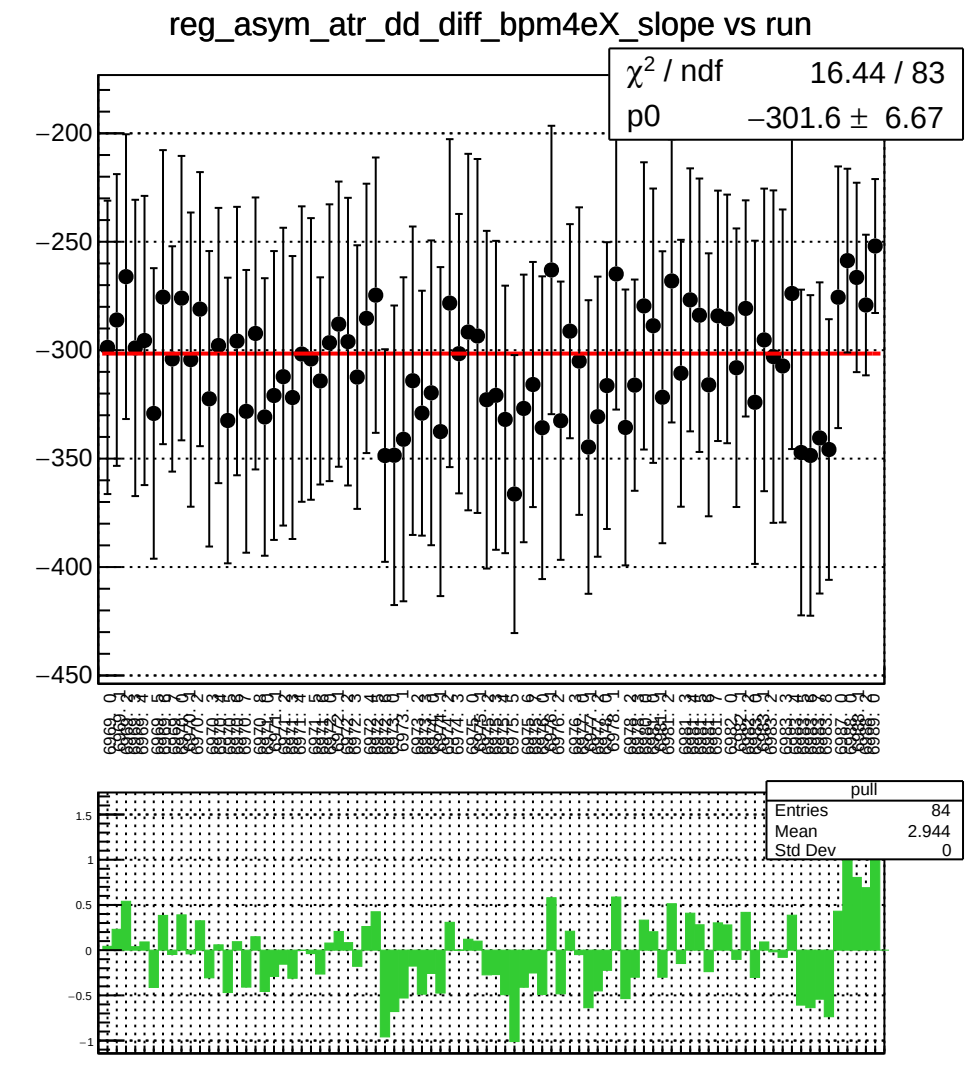

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 310.7 / 83
p0 −133.3 ± 0.2395
pull
Entries 84
Mean −202.5
Std Dev 0

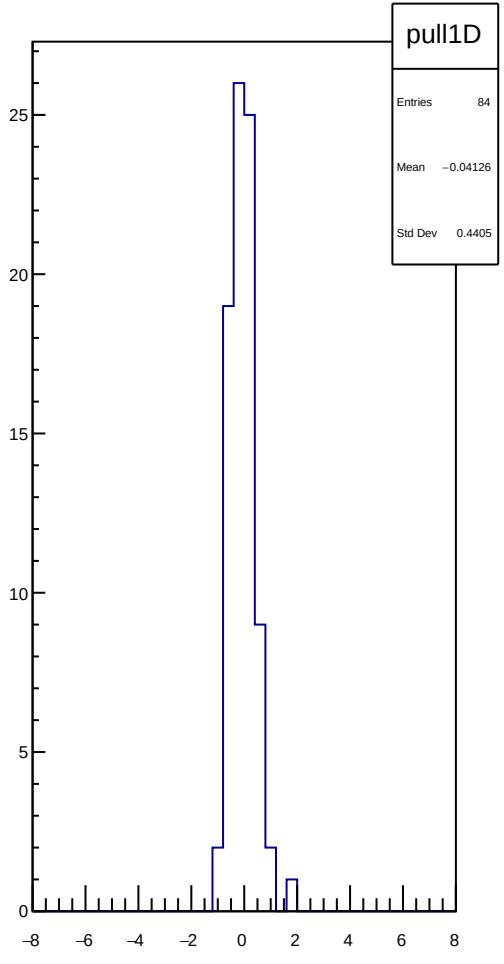

pull1D
Entries 84
Mean −0.1456
Std Dev 1.918

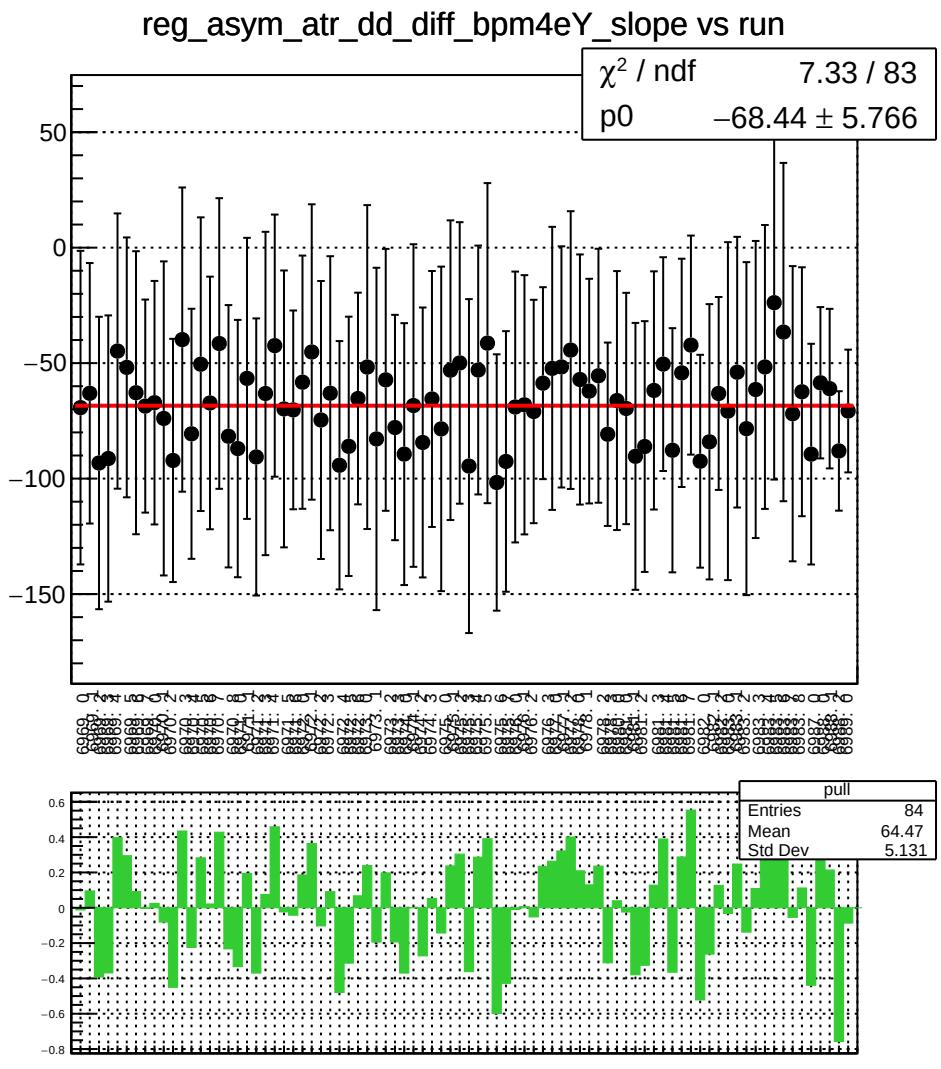

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 14.42 / 83
p0 235.6 ± 7.277
pull
Entries 84
Mean 11.48
Std Dev 0
pull1D
Entries 84
Mean 0.03339
Std Dev 0.413

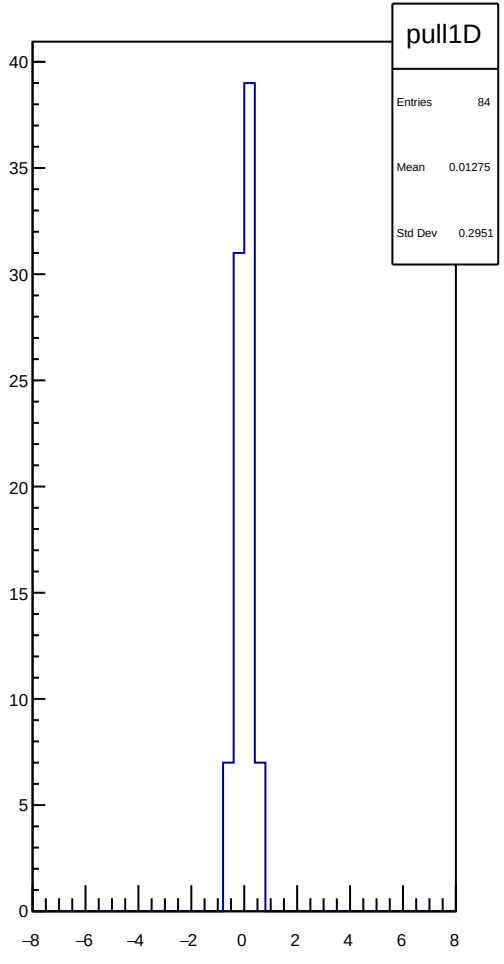

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.353 / 83
p0 0.749 ± 5.038
pull
Entries 84
Mean 40.22
Std Dev 15.18

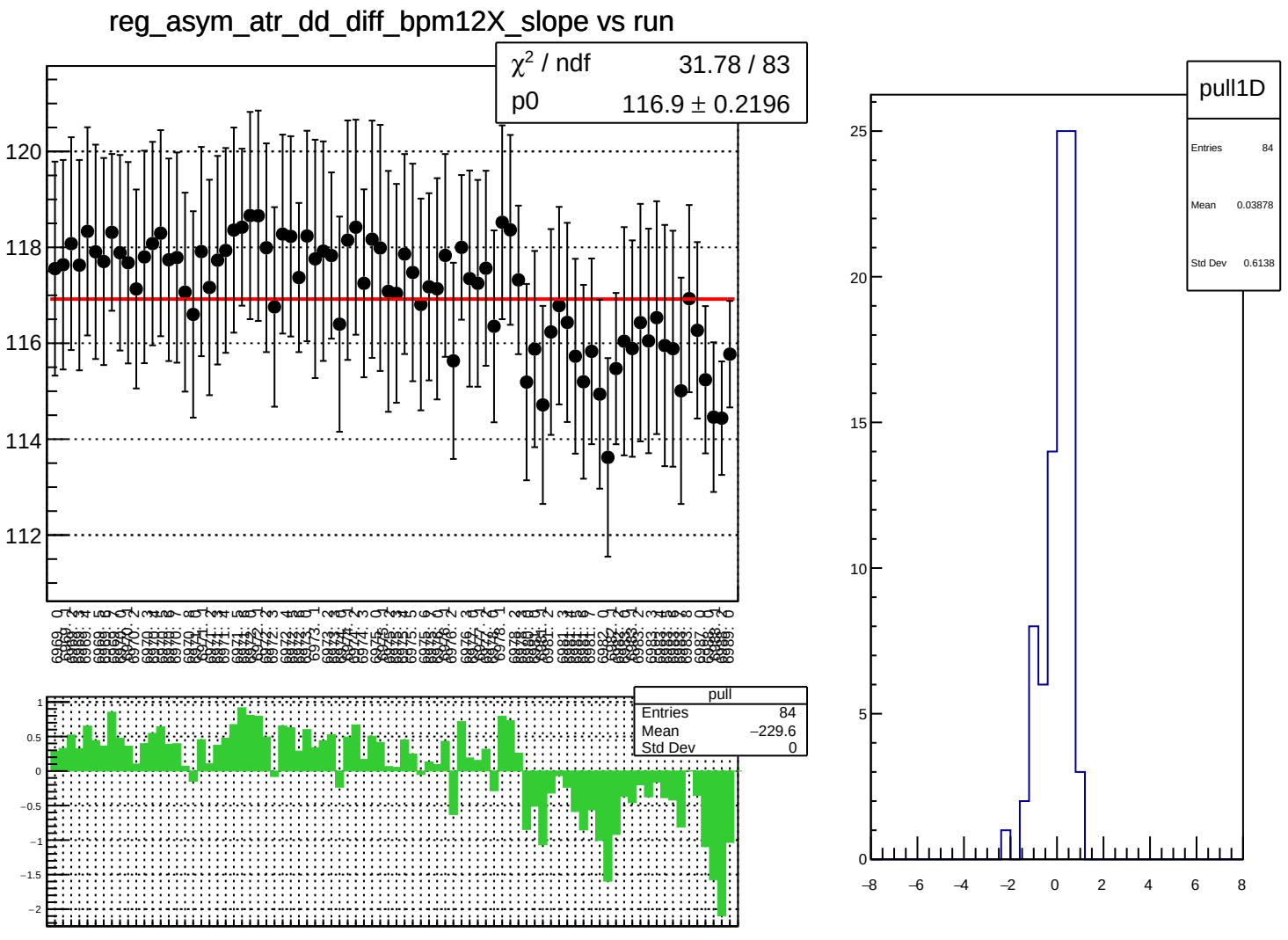

pull1D
Entries 84
Mean −0.01465
Std Dev 0.2955

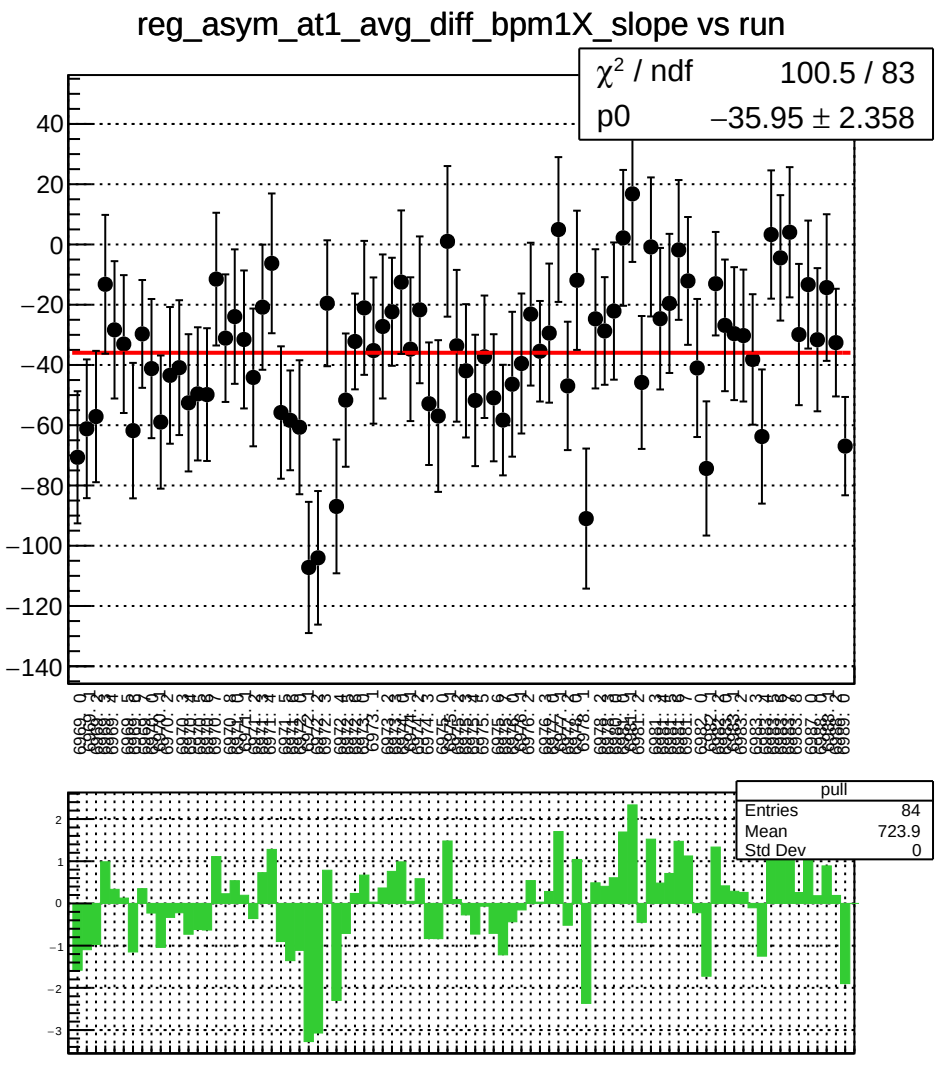

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.44 / 83
p0 −301.6 ± 6.67
pull
Entries 84
Mean 2.944
Std Dev 0

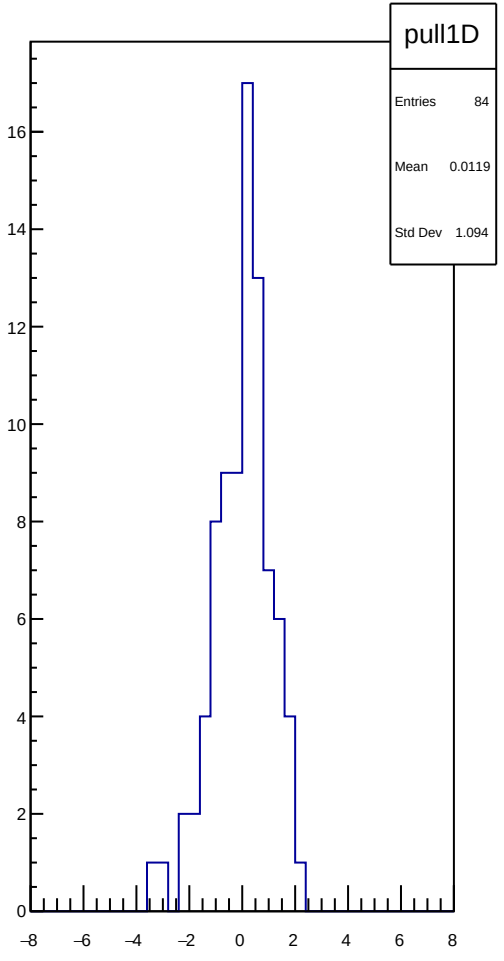

pull1D
Entries 84
Mean −0.04126
Std Dev 0.4405

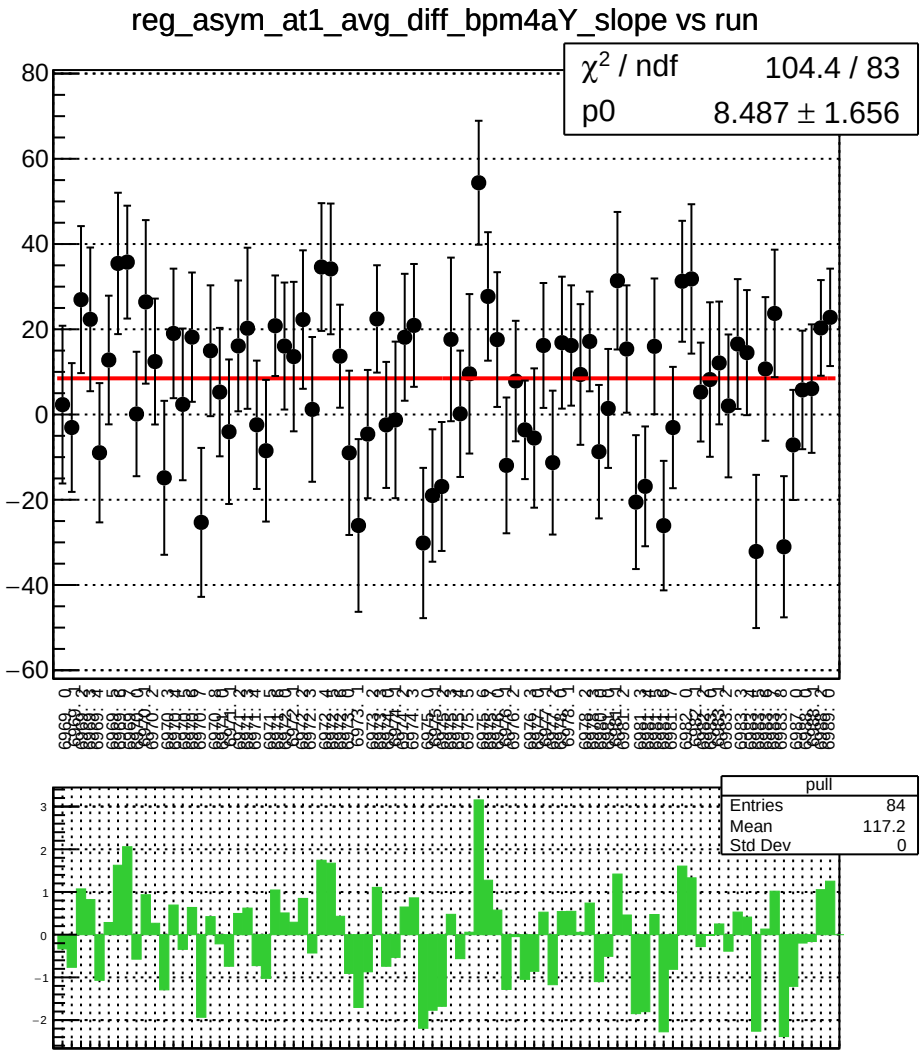

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.33 / 83
p0 −68.44 ± 5.766
50
0
−50
−100
−150
pull
Entries 84
Mean 64.47
Std Dev 5.131
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

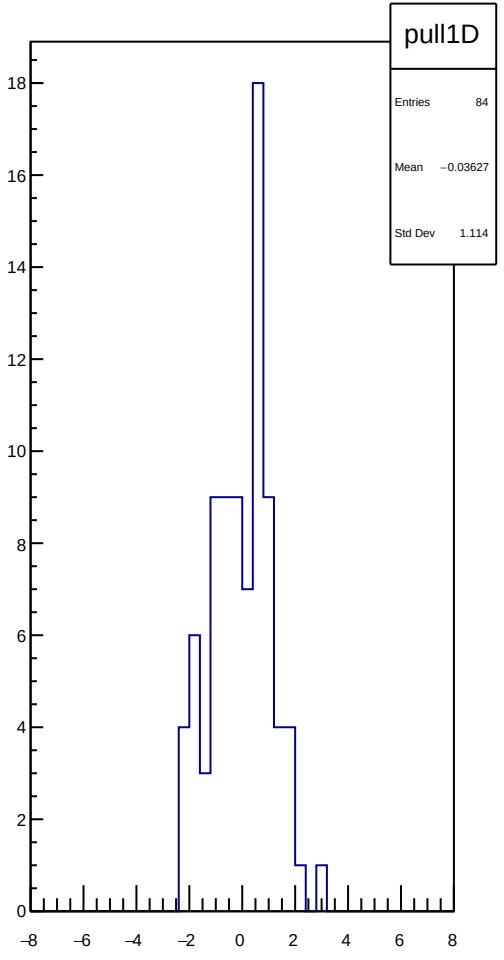

pull1D
Entries 84
Mean 0.01275
Std Dev 0.2951
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

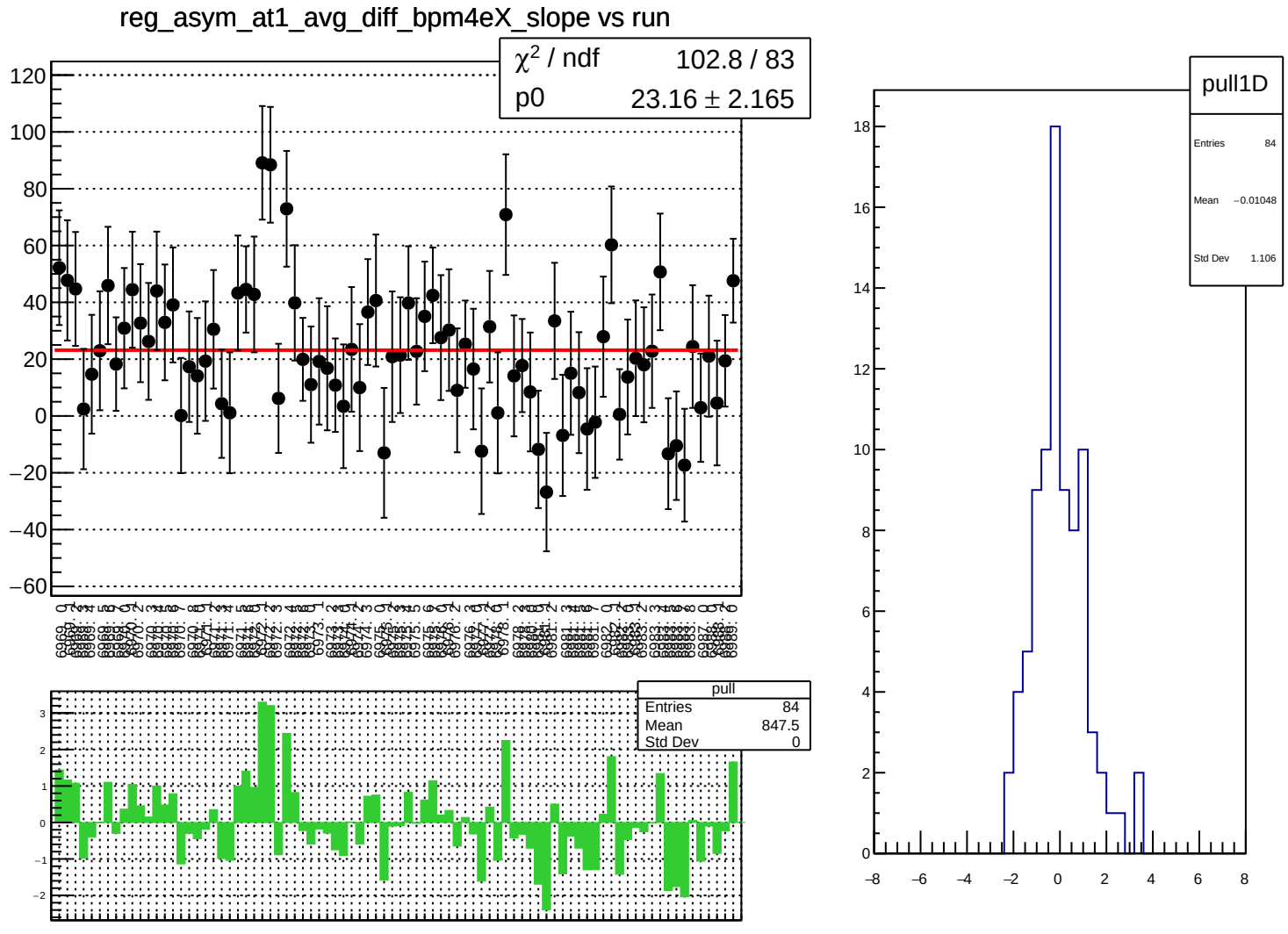

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 31.78 / 83
p0 116.9 ± 0.2196
120
118
116
114
112
pull
Entries 84
Mean −229.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.03878
Std Dev 0.6138
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

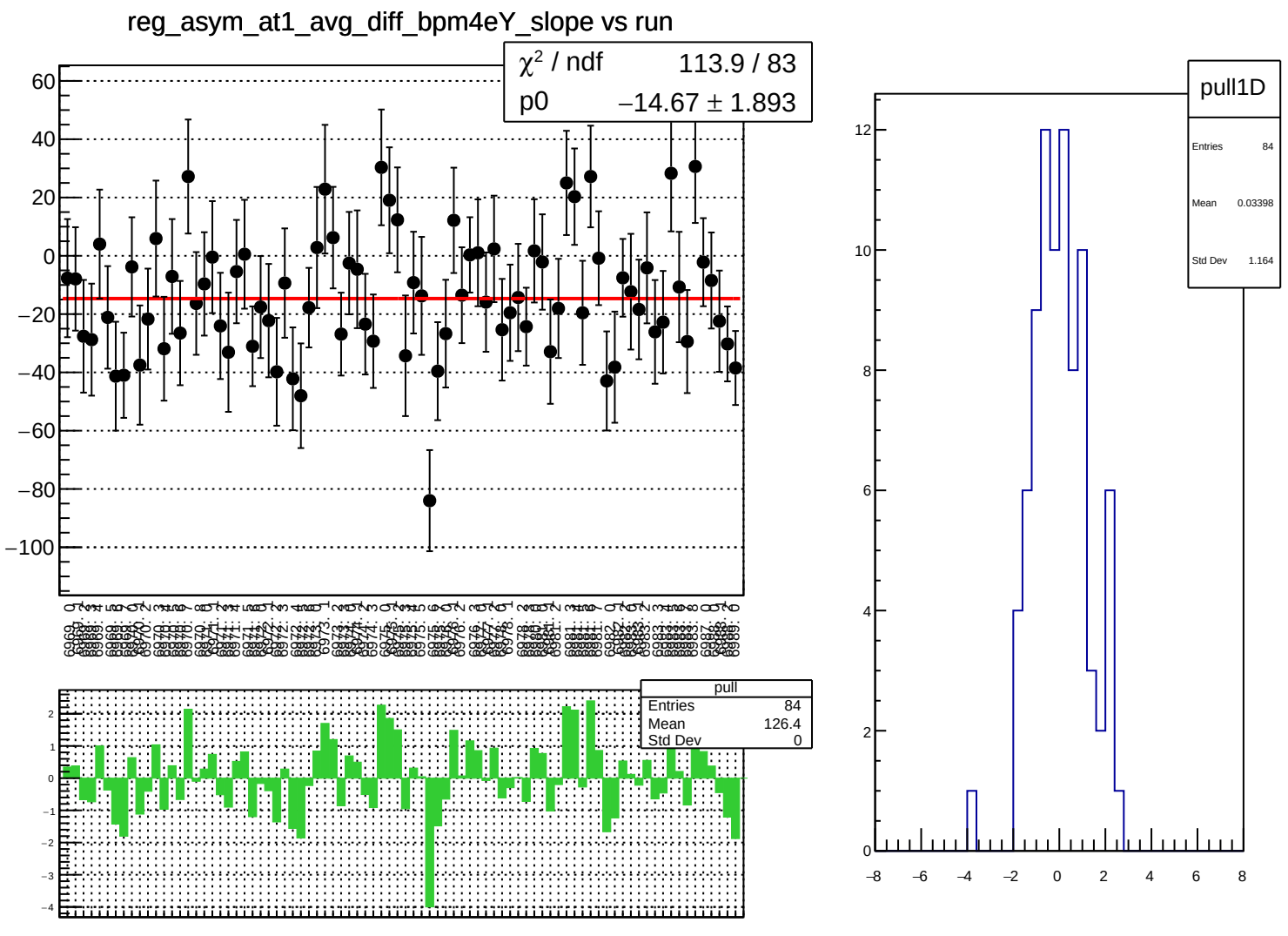

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 100.5 / 83
p0 −35.95 ± 2.358
pull
Entries 84
Mean 723.9
Std Dev 0

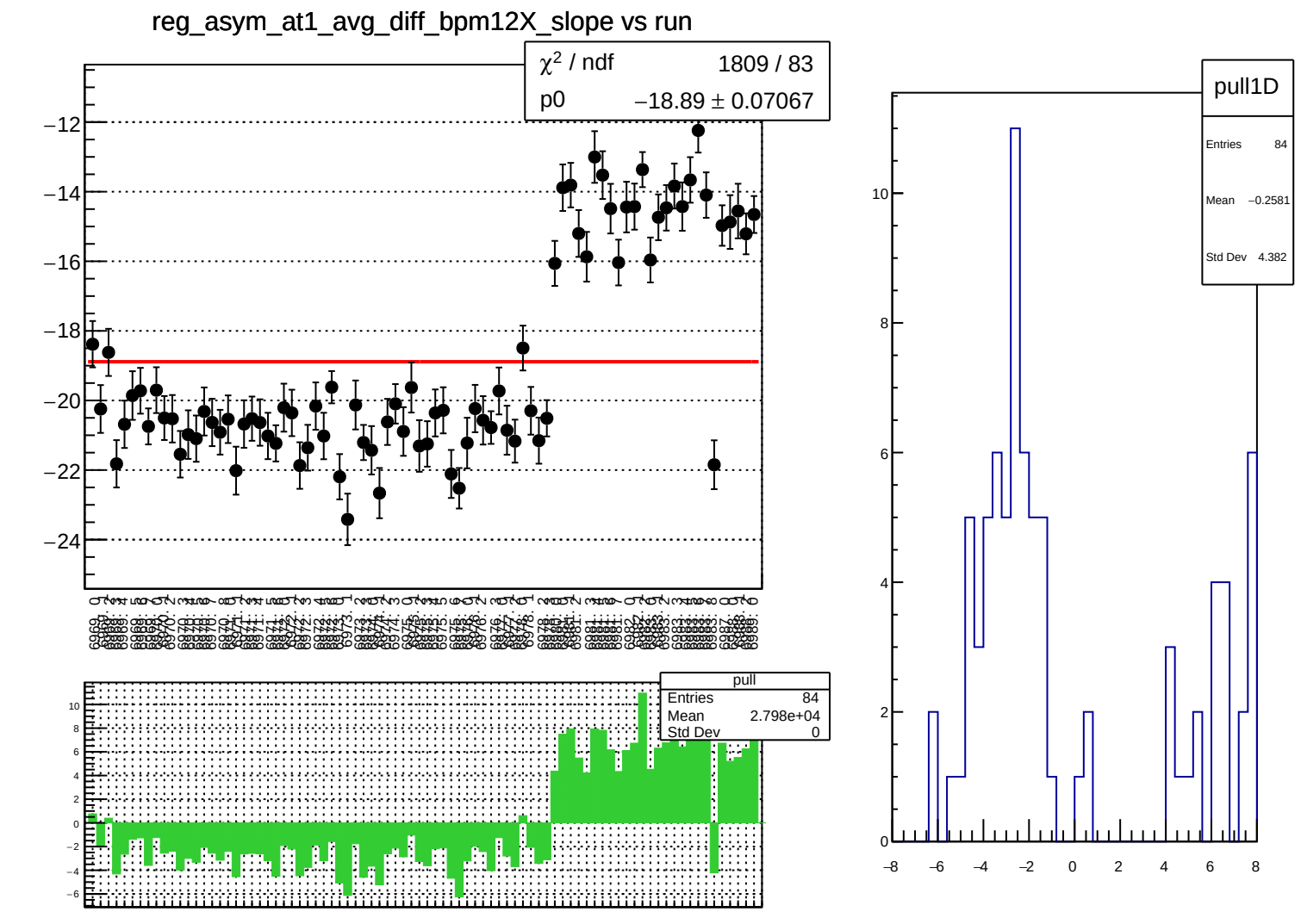

pull1D
Entries 84
Mean 0.0119
Std Dev 1.094

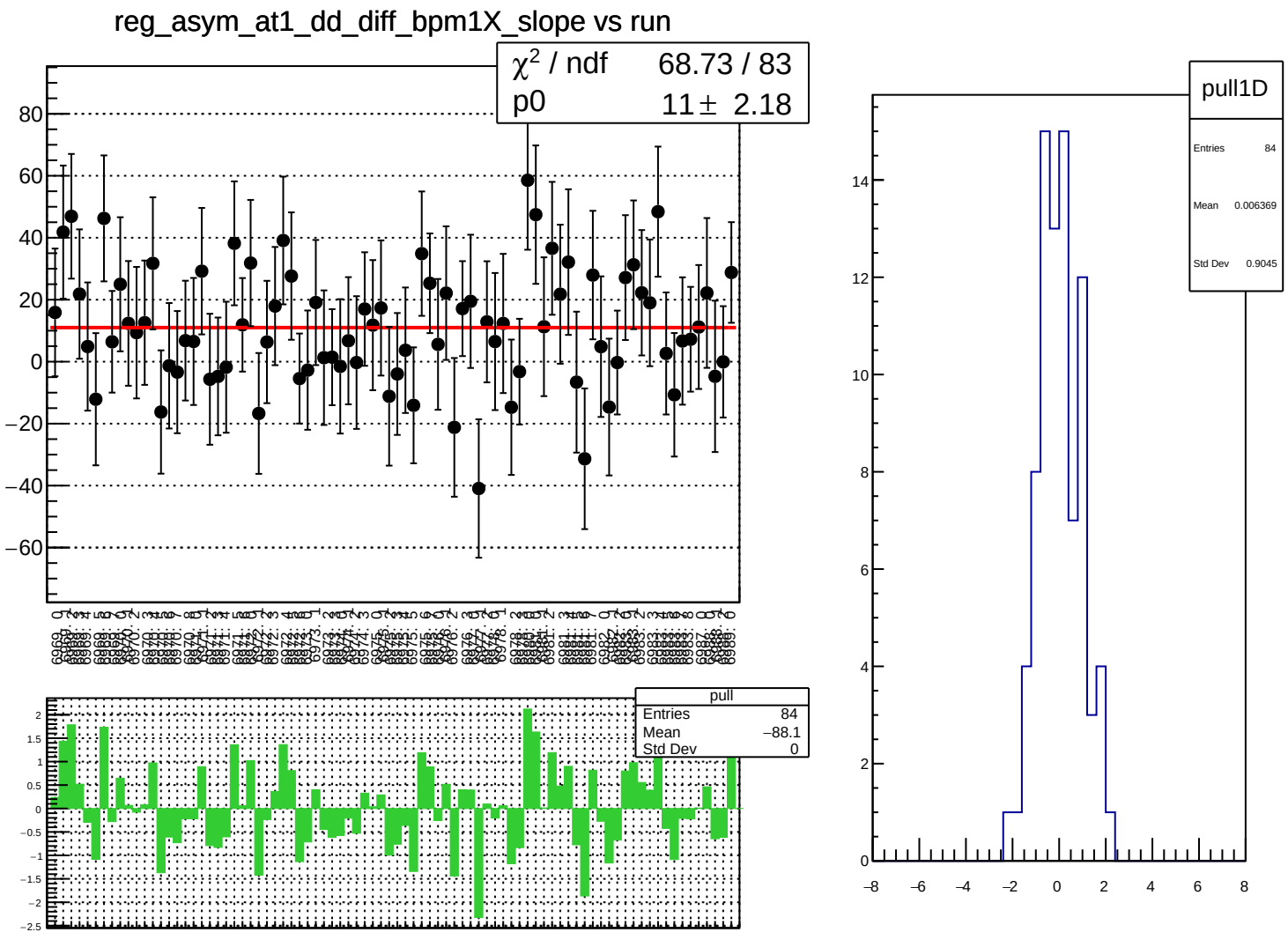

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 104.4 / 83
p0 8.487 ± 1.656
pull
Entries 84
Mean 117.2
Std Dev 0

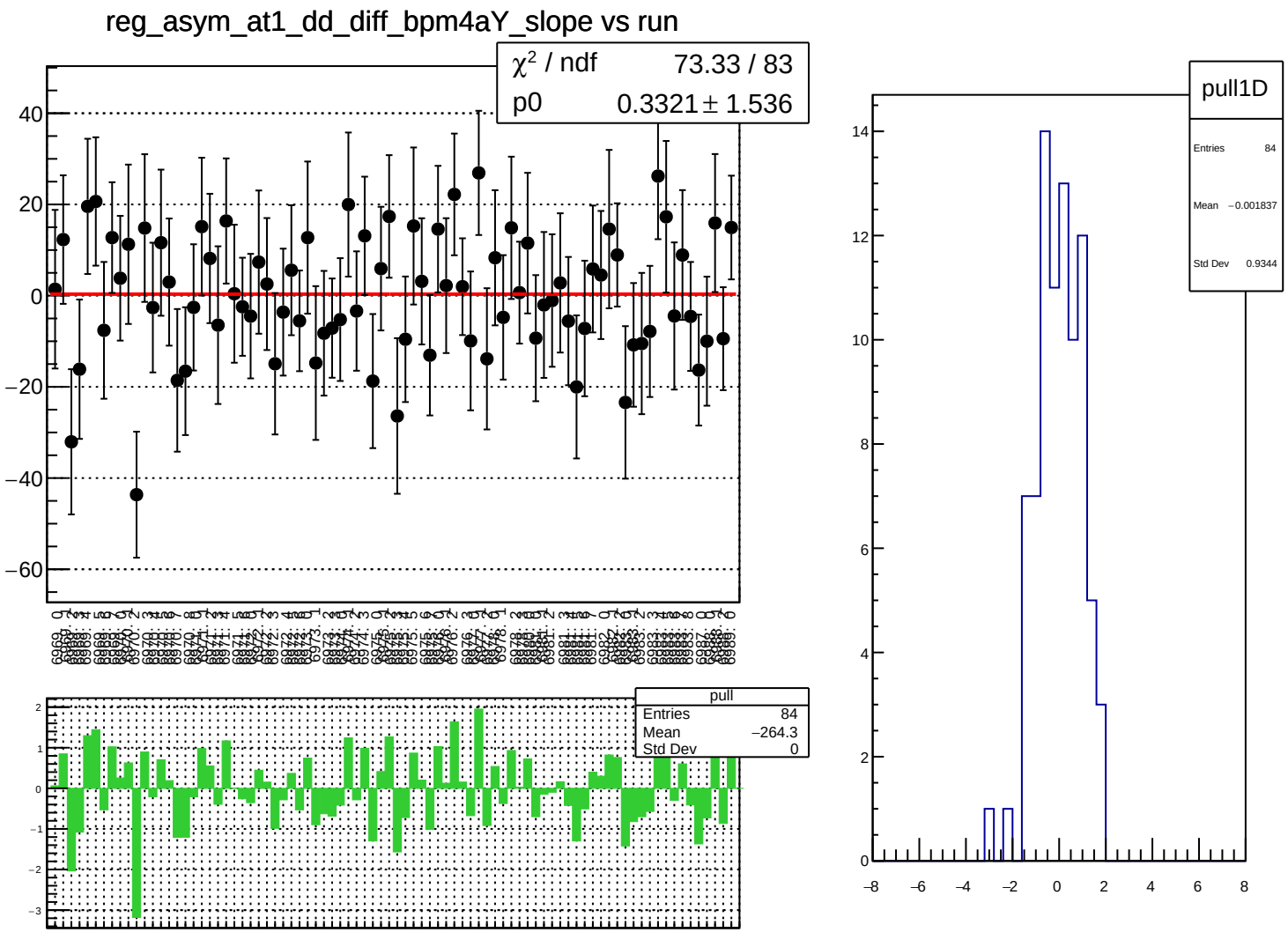

pull1D
Entries 84
Mean −0.03627
Std Dev 1.114

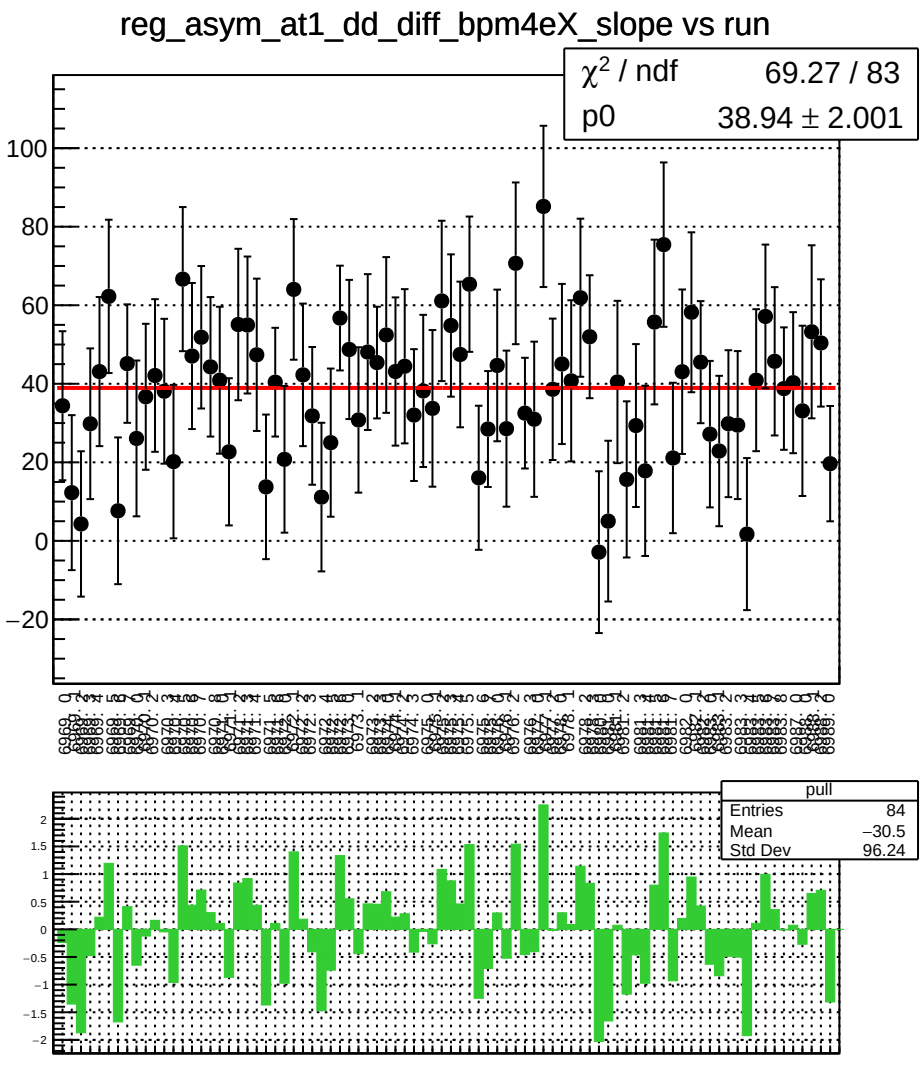

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 102.8 / 83
p0 23.16 ± 2.165
pull
Entries 84
Mean 847.5
Std Dev 0
pull1D
Entries 84
Mean −0.01048
Std Dev 1.106

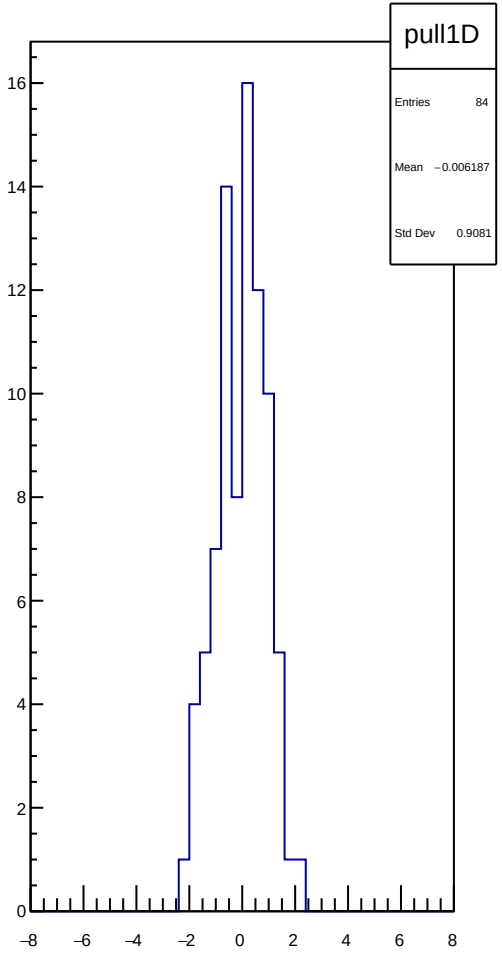

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 113.9 / 83
p0 −14.67 ± 1.893
pull
Entries 84
Mean 126.4
Std Dev 0
pull1D
Entries 84
Mean 0.03398
Std Dev 1.164

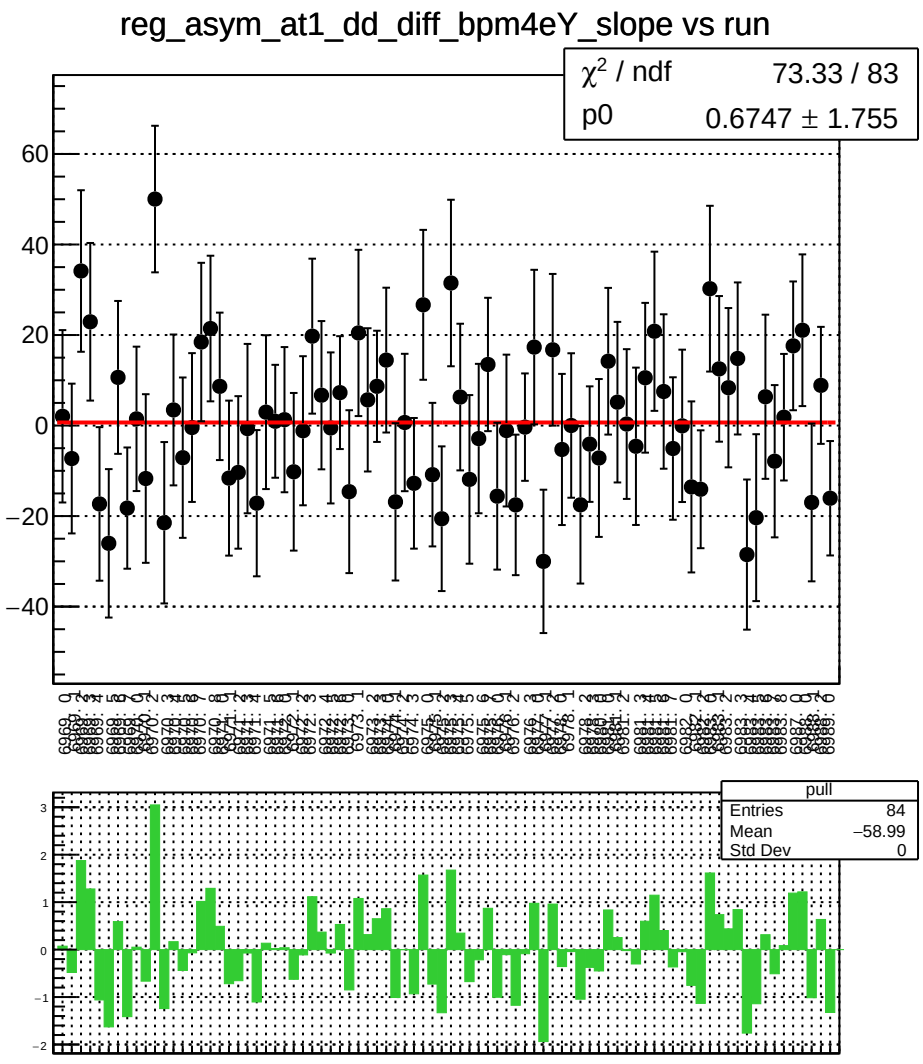

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1809 / 83
p0 −18.89 ± 0.07067
pull
Entries 84
Mean 2.798e+04
Std Dev 0
pull1D
Entries 84
Mean −0.2581
Std Dev 4.382

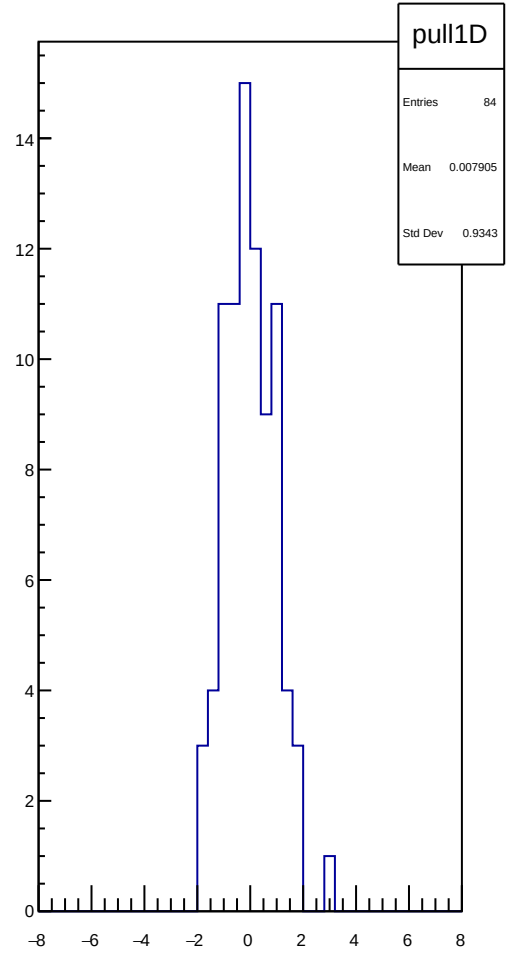

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 68.73 / 83
p0 11 ± 2.18
pull
Entries 84
Mean −88.1
Std Dev 0
pull1D
Entries 84
Mean 0.006369
Std Dev 0.9045

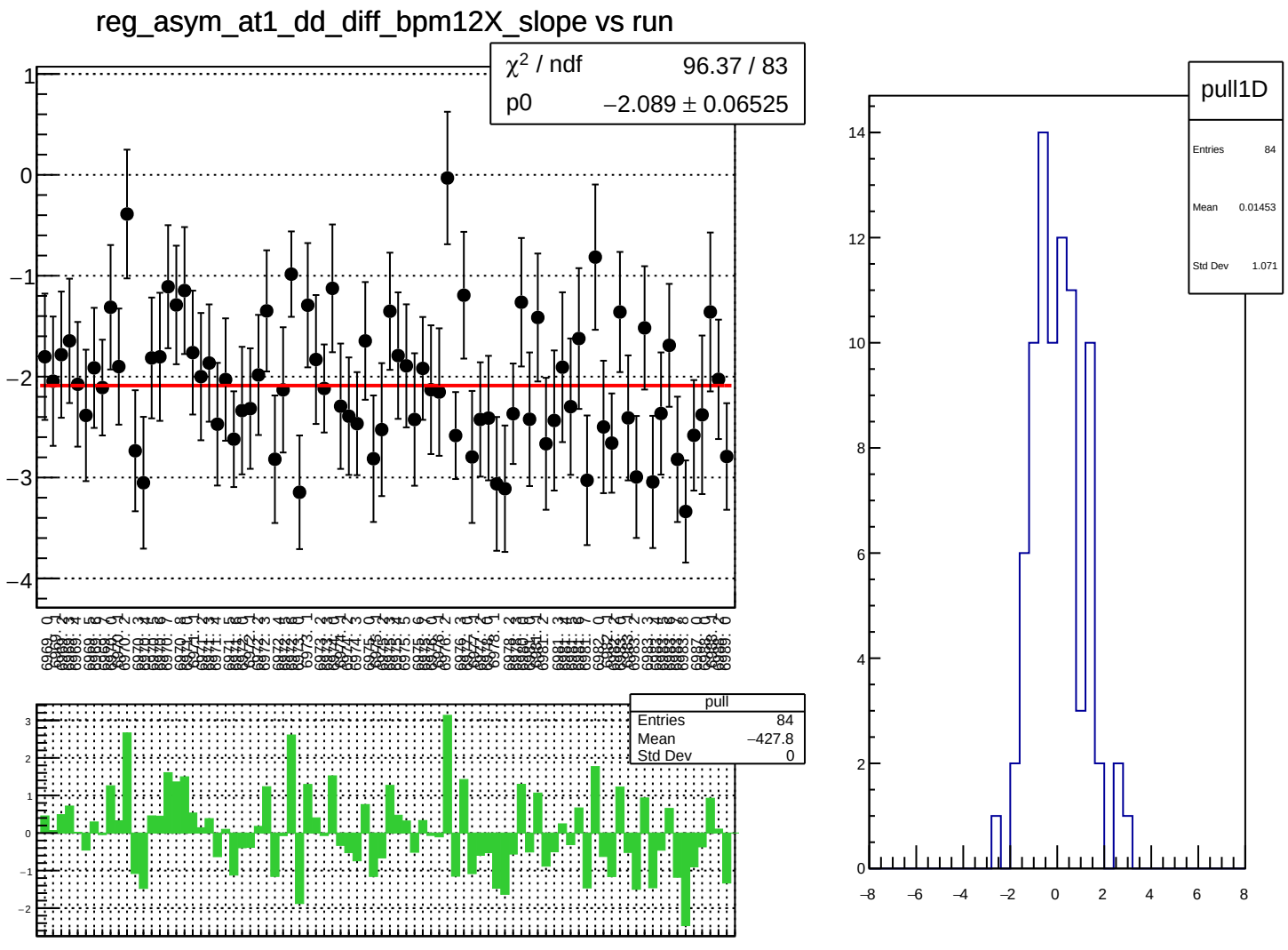

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.33 / 83
p0 0.3321 ± 1.536
pull
Entries 84
Mean −264.3
Std Dev 0
pull1D
Entries 84
Mean −0.001837
Std Dev 0.9344

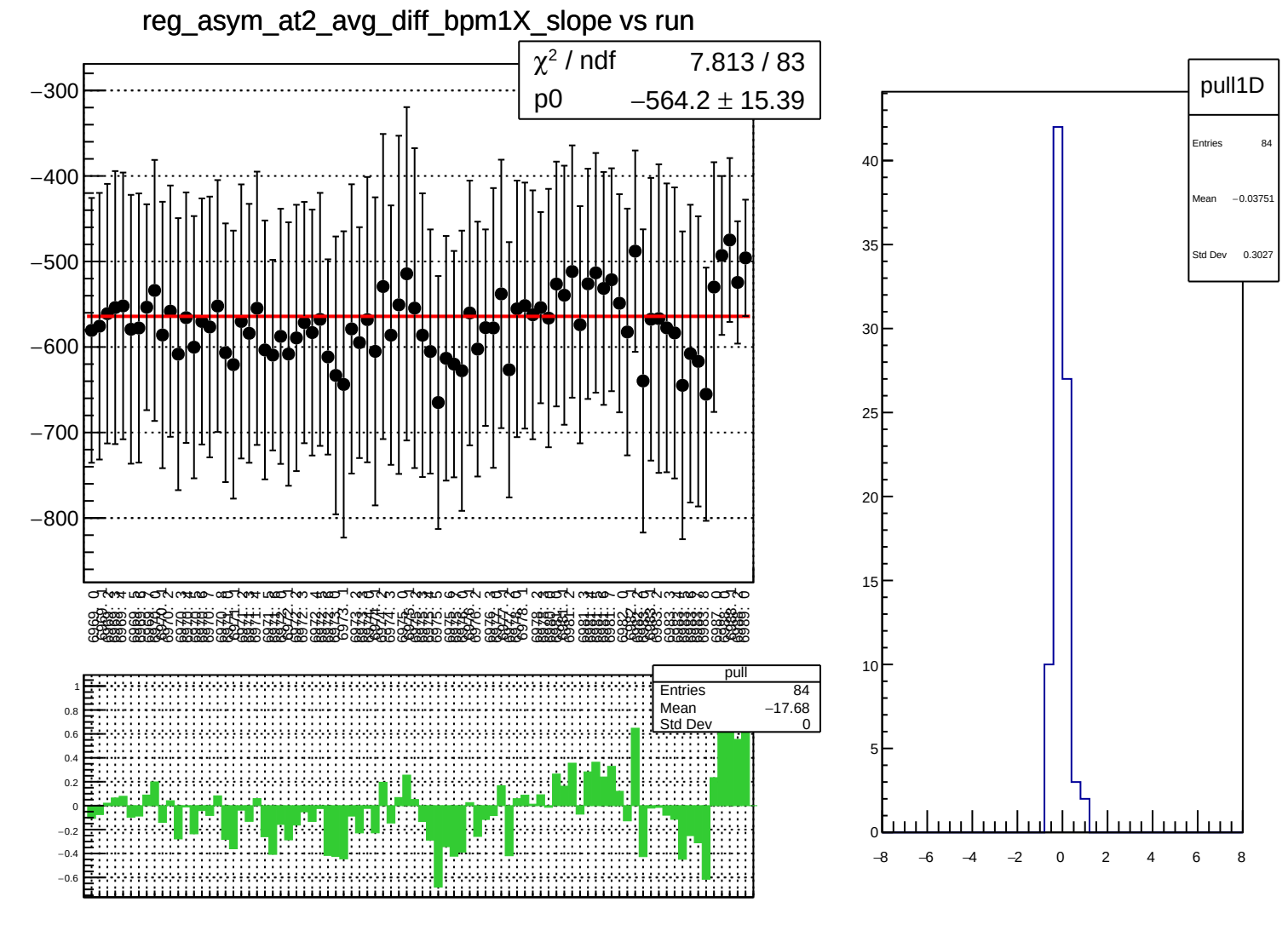

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.27 / 83
p0 38.94 ± 2.001
pull
Entries 84
Mean −30.5
Std Dev 96.24

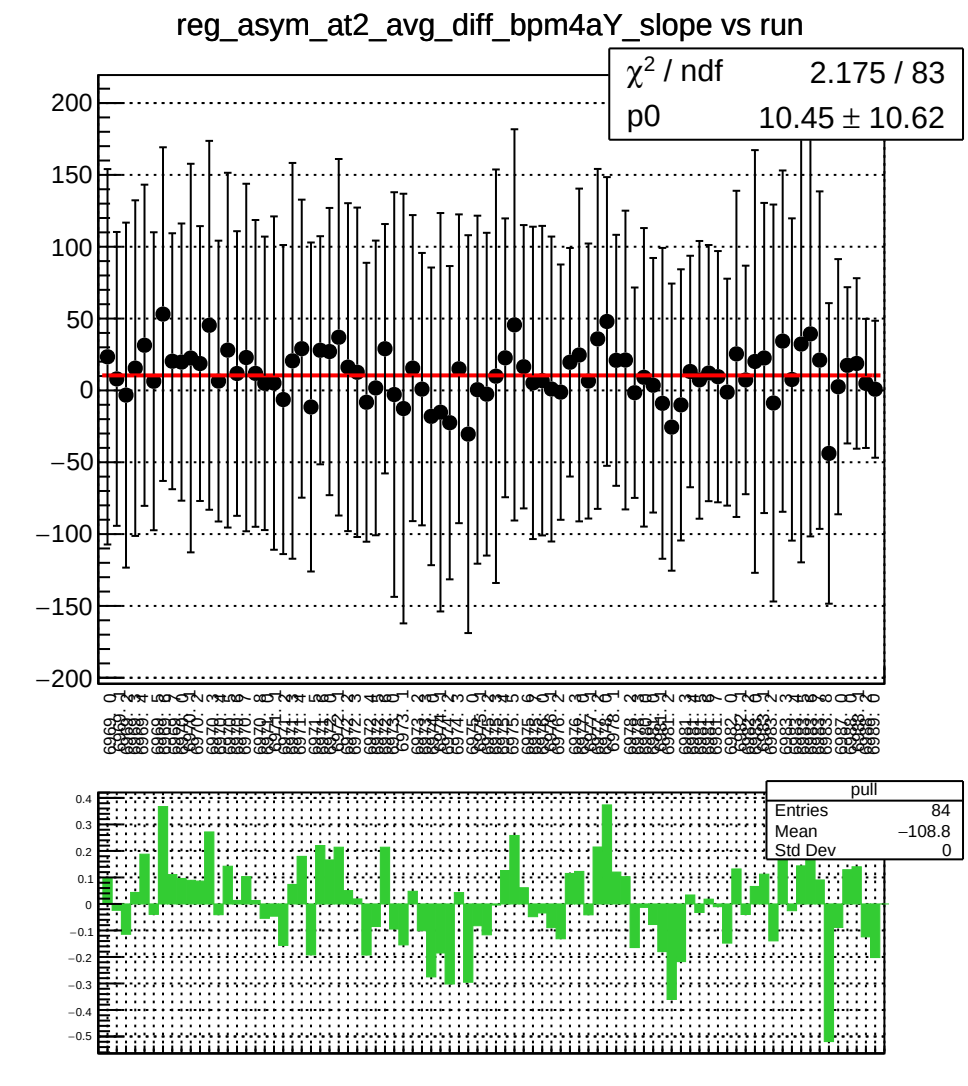

pull1D
Entries 84
Mean −0.006187
Std Dev 0.9081

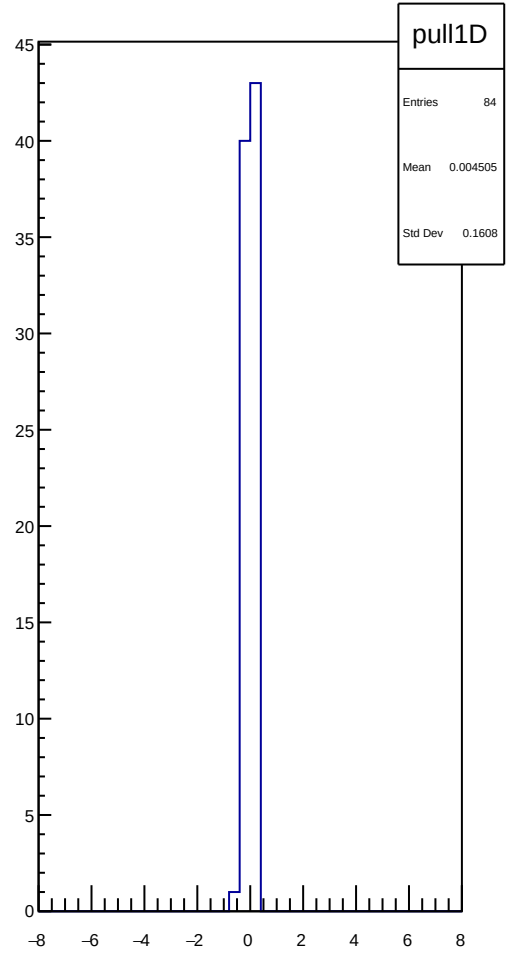

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.33 / 83
p0 0.6747 ± 1.755
pull
Entries 84
Mean −58.99
Std Dev 0

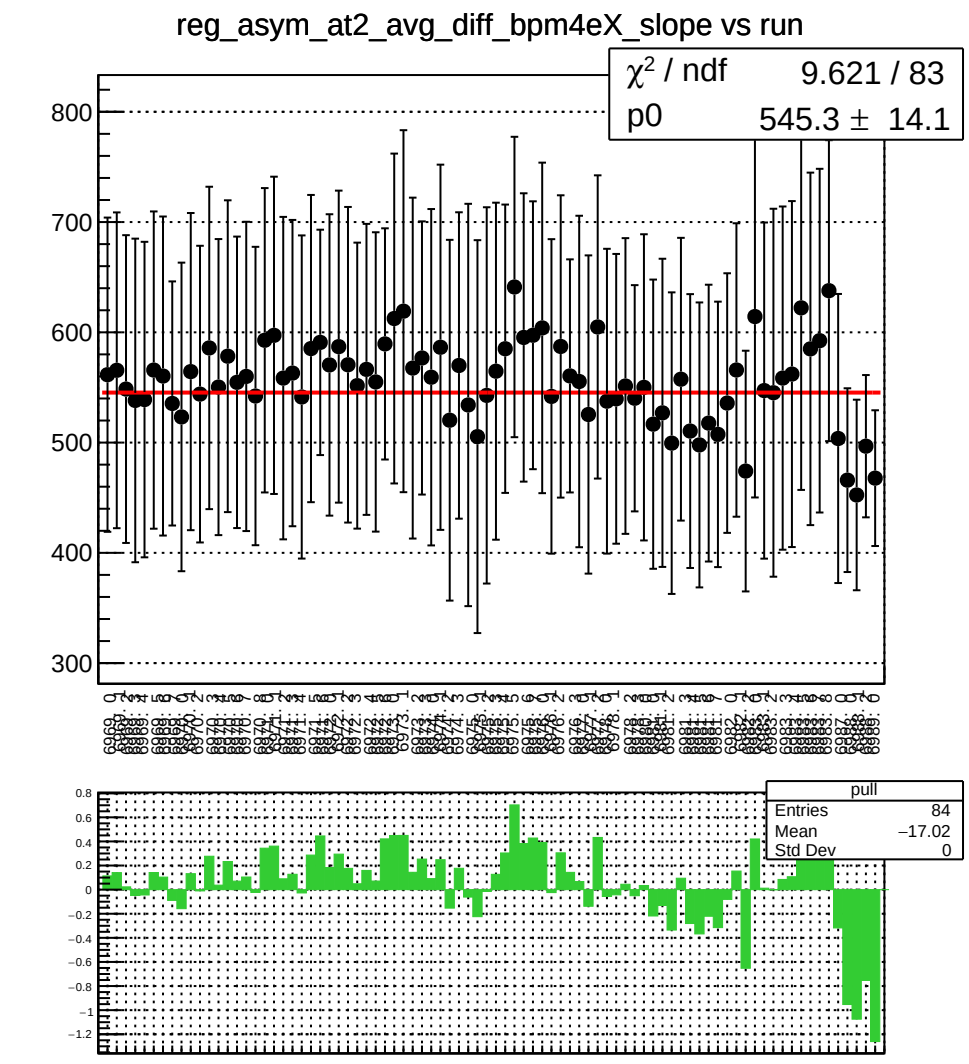

pull1D
Entries 84
Mean 0.007905
Std Dev 0.9343

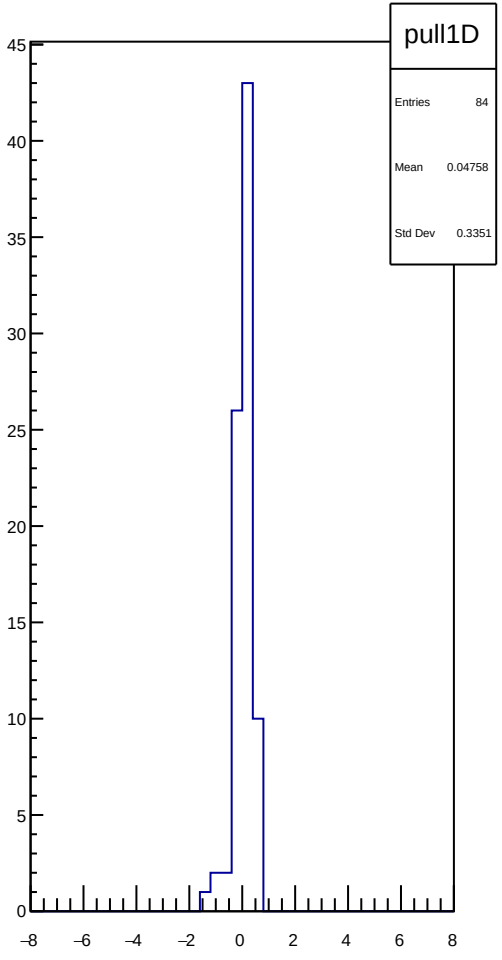

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 96.37 / 83
p0 −2.089 ± 0.06525
pull
Entries 84
Mean −427.8
Std Dev 0
pull1D
Entries 84
Mean 0.01453
Std Dev 1.071

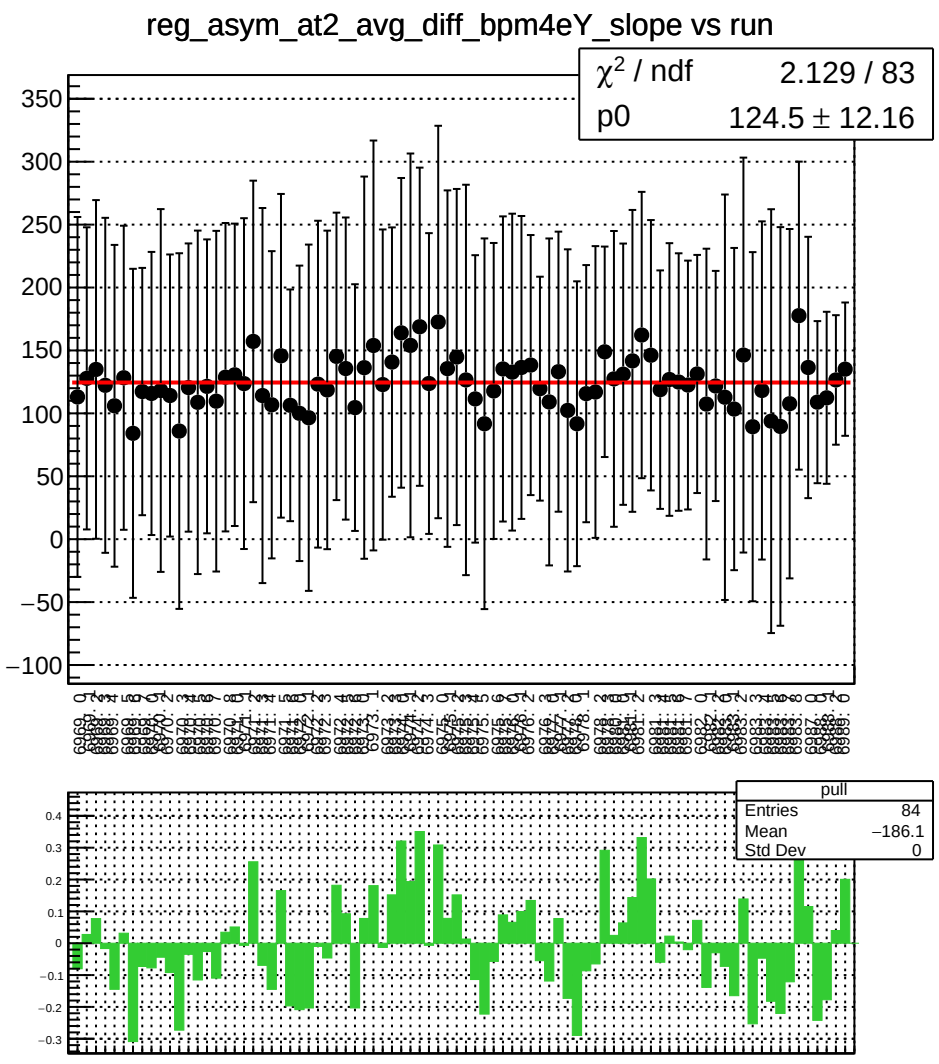

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.813 / 83
p0 −564.2 ± 15.39
−300
−400
−500
−600
−700
−800
pull
Entries 84
Mean −17.68
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 84
Mean −0.03751
Std Dev 0.3027
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

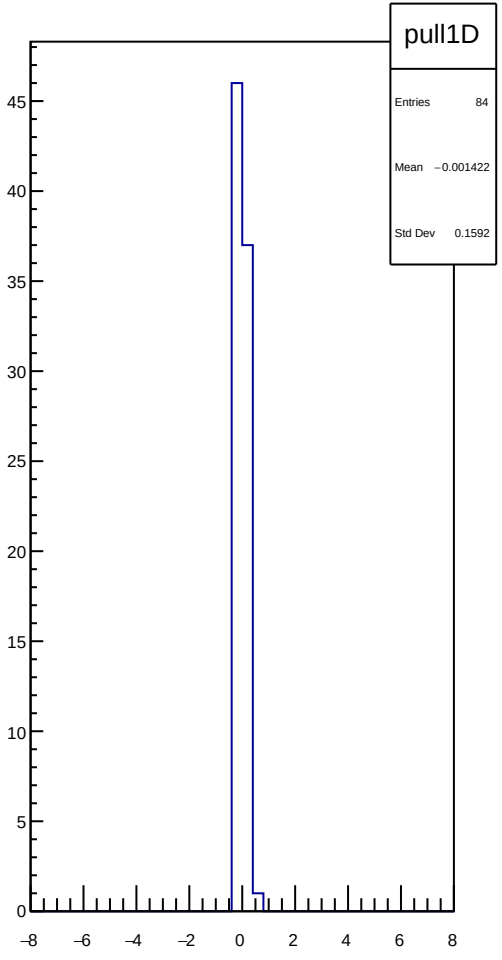

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.175 / 83
p0 10.45 ± 10.62
pull
Entries 84
Mean −108.8
Std Dev 0

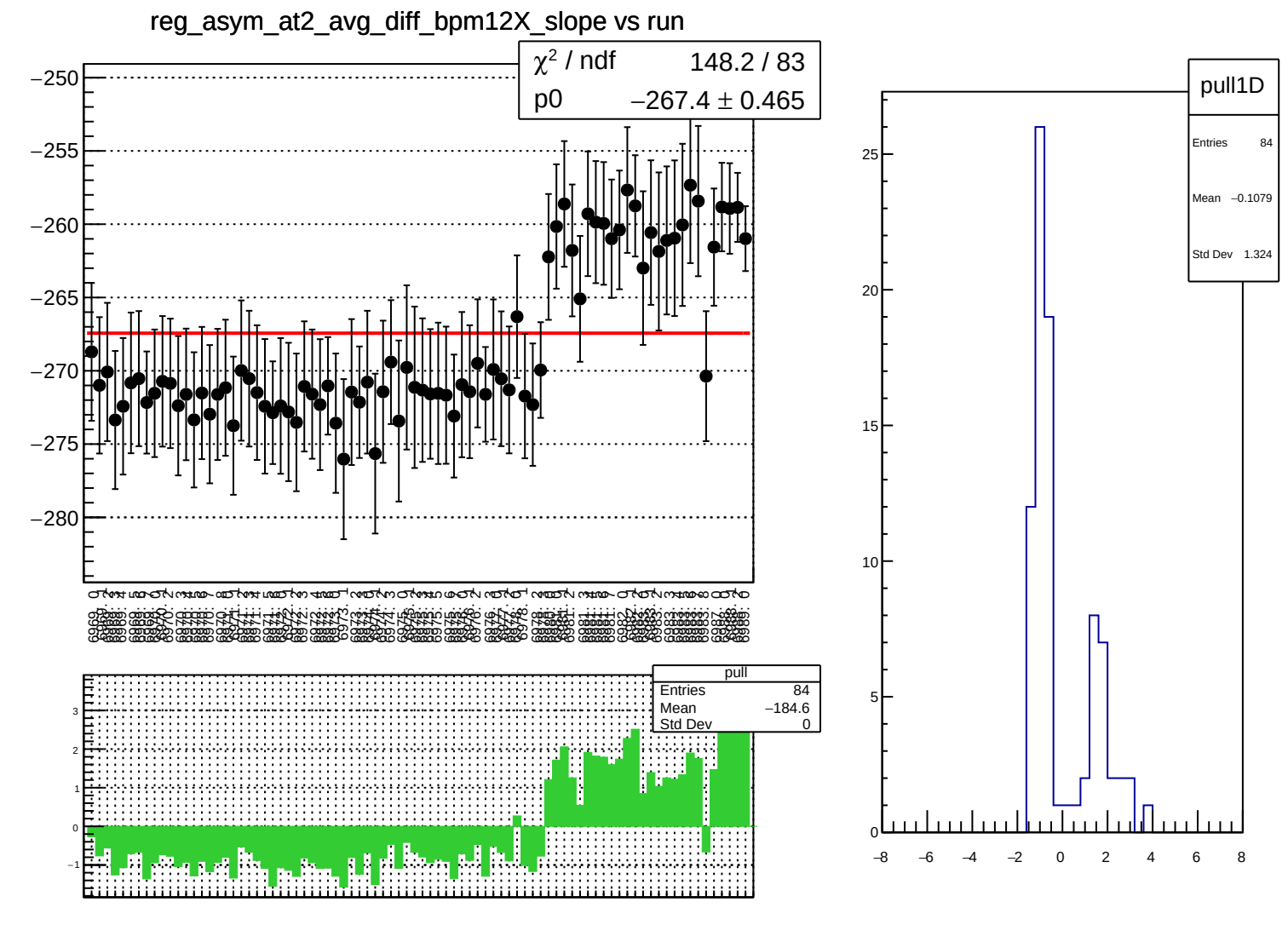

pull1D
Entries 84
Mean 0.004505
Std Dev 0.1608

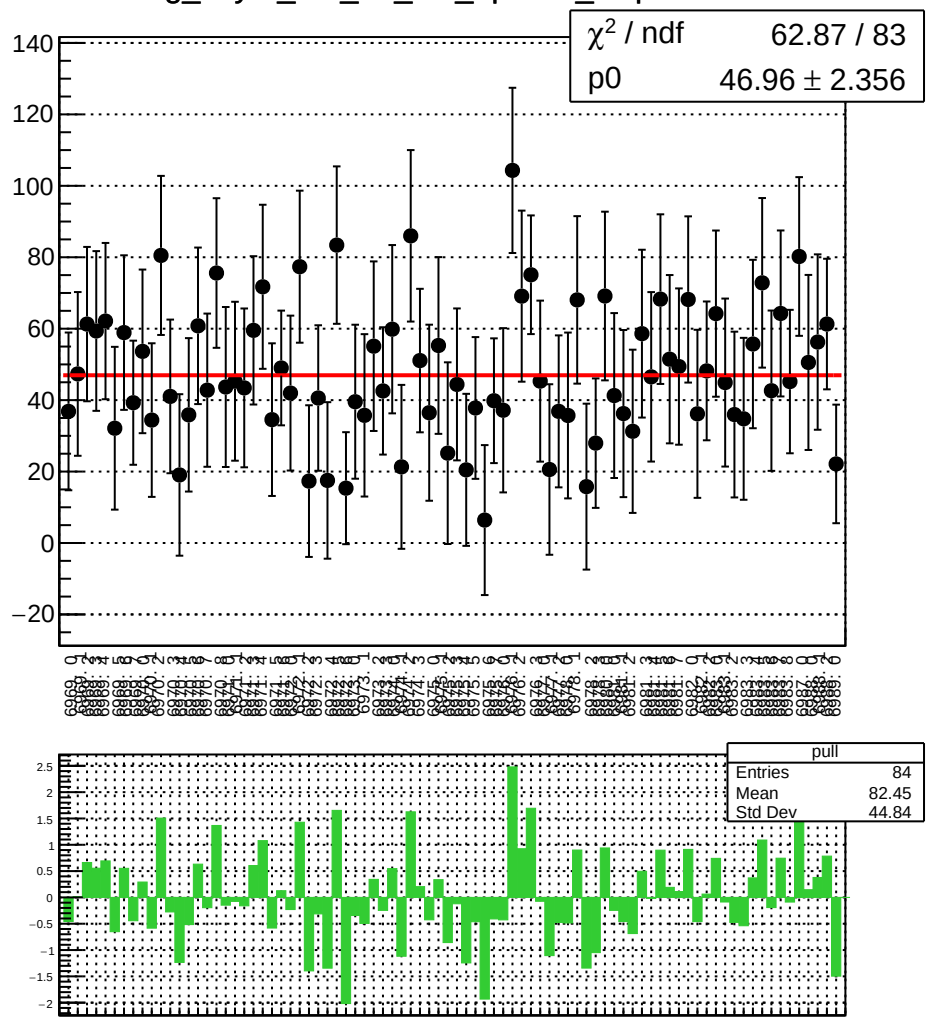

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.621 / 83
p0 545.3 ± 14.1
800
700
600
500
400
300
pull
Entries 84
Mean −17.02
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

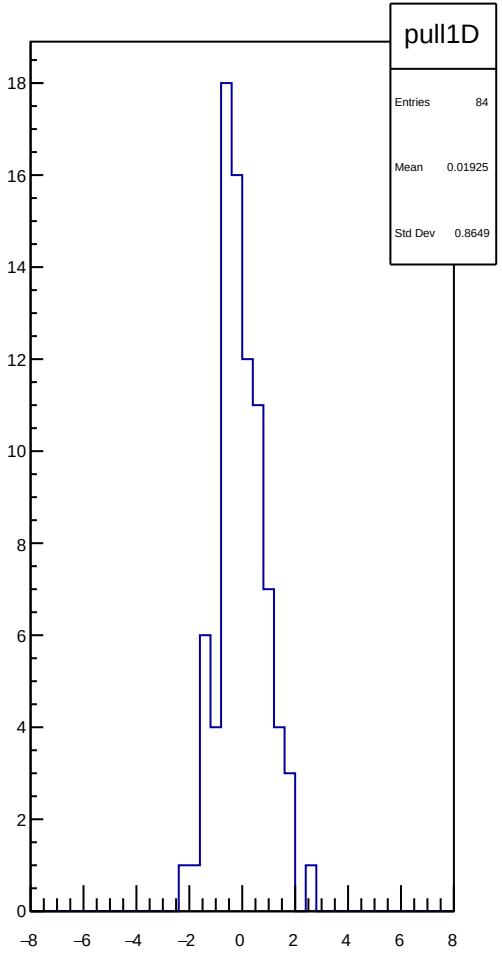

pull1D
Entries 84
Mean 0.04758
Std Dev 0.3351
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

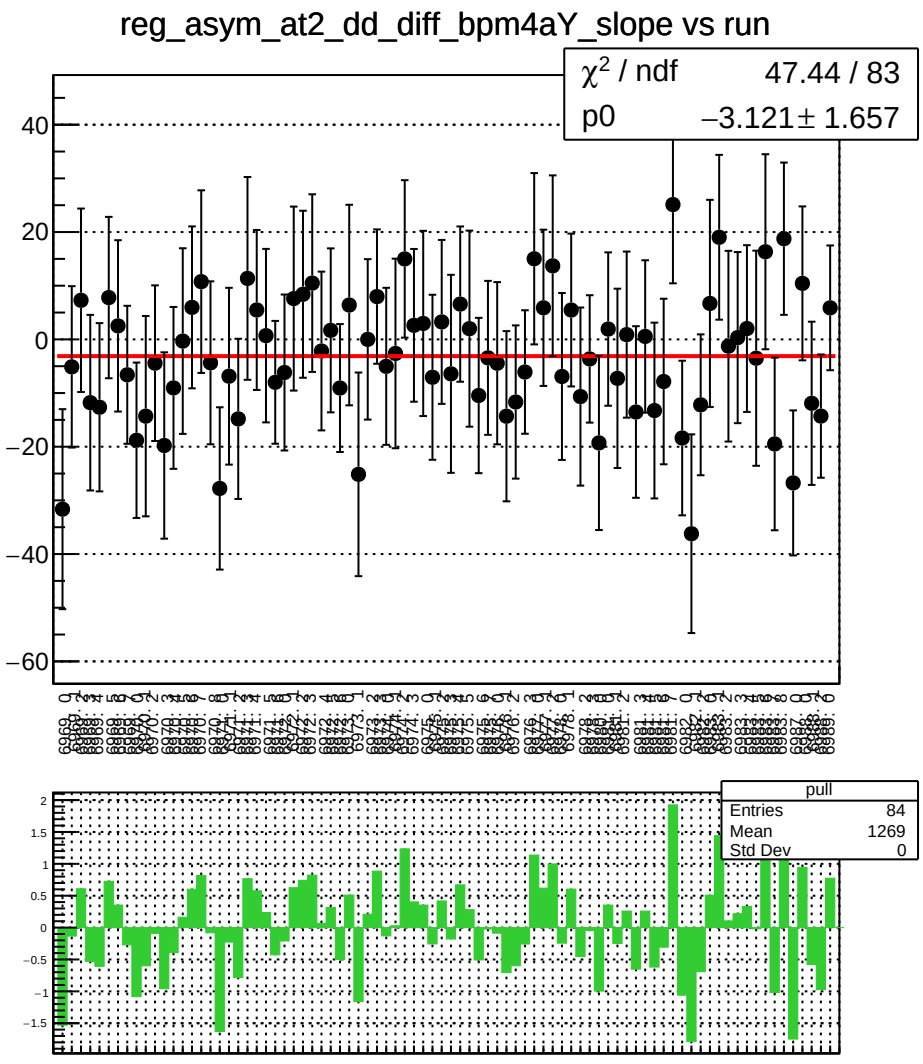

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 2.129 / 83
p0 124.5 ± 12.16
pull
Entries 84
Mean −186.1
Std Dev 0

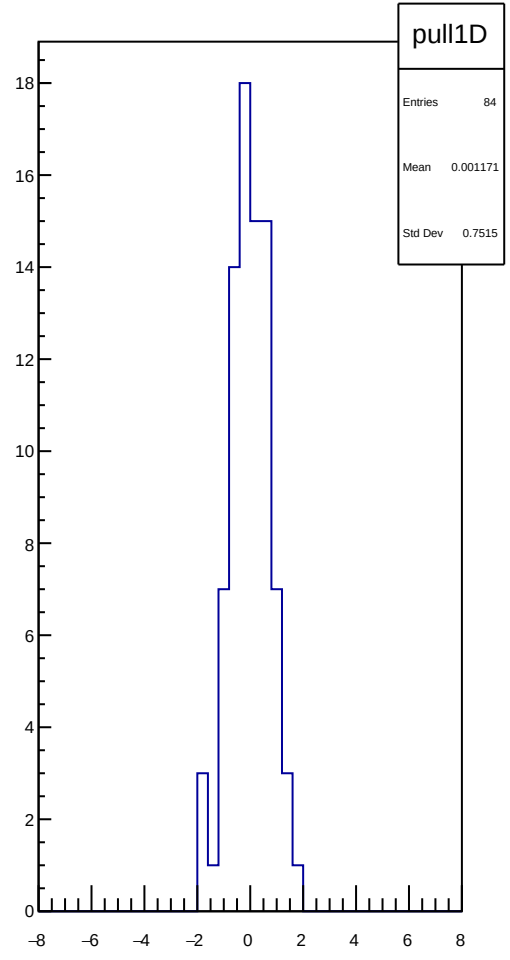

pull1D
Entries 84
Mean −0.001422
Std Dev 0.1592

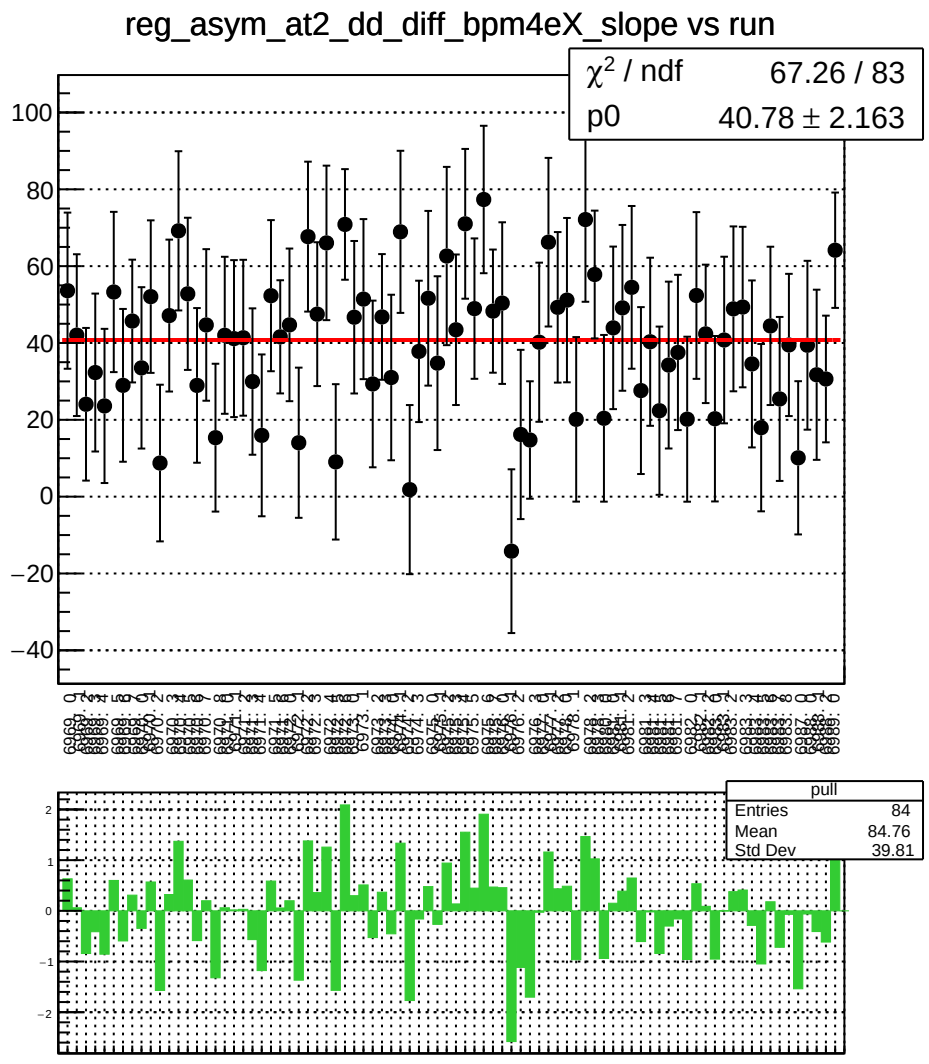

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 148.2 / 83
p0 −267.4 ± 0.465
−250
−255
−260
−265
−270
−275
−280
pull
Entries 84
Mean −184.6
Std Dev 0
3
2
1
0
−1
pull1D
Entries 84
Mean −0.1079
Std Dev 1.324
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

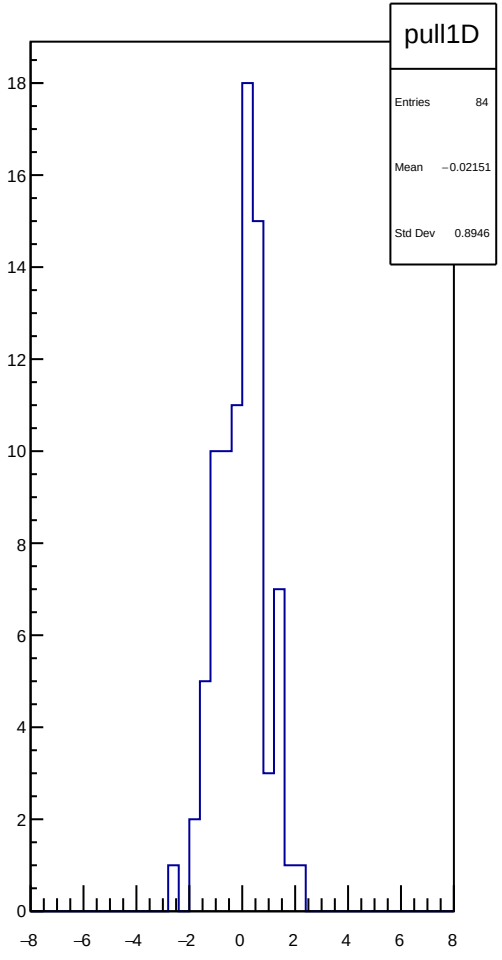

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 62.87 / 83
p0 46.96 ± 2.356
pull
Entries 84
Mean 82.45
Std Dev 44.84

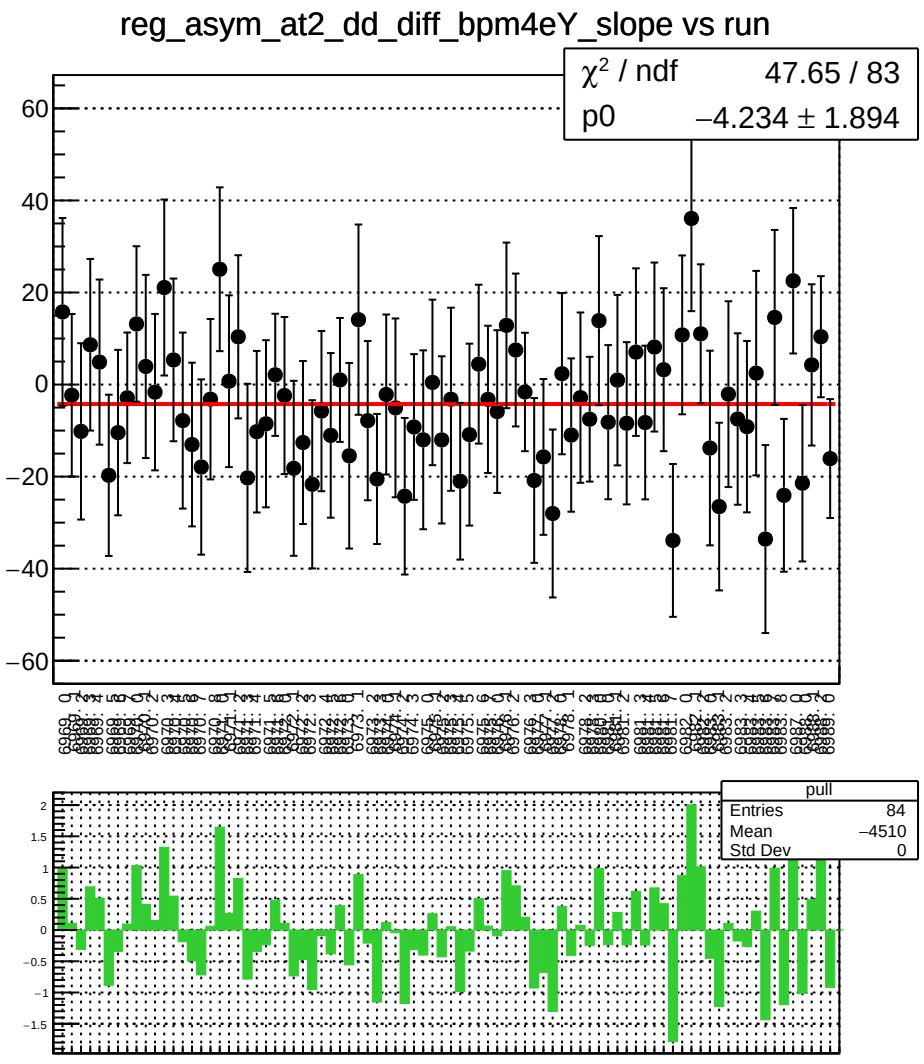

pull1D
Entries 84
Mean 0.01925
Std Dev 0.8649

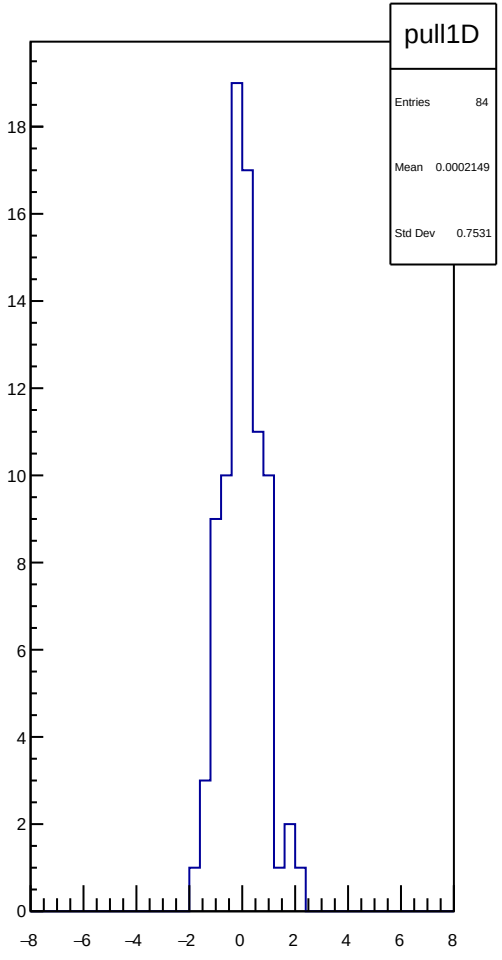

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.44 / 83
p0 −3.121± 1.657
pull
Entries 84
Mean 1269
Std Dev 0

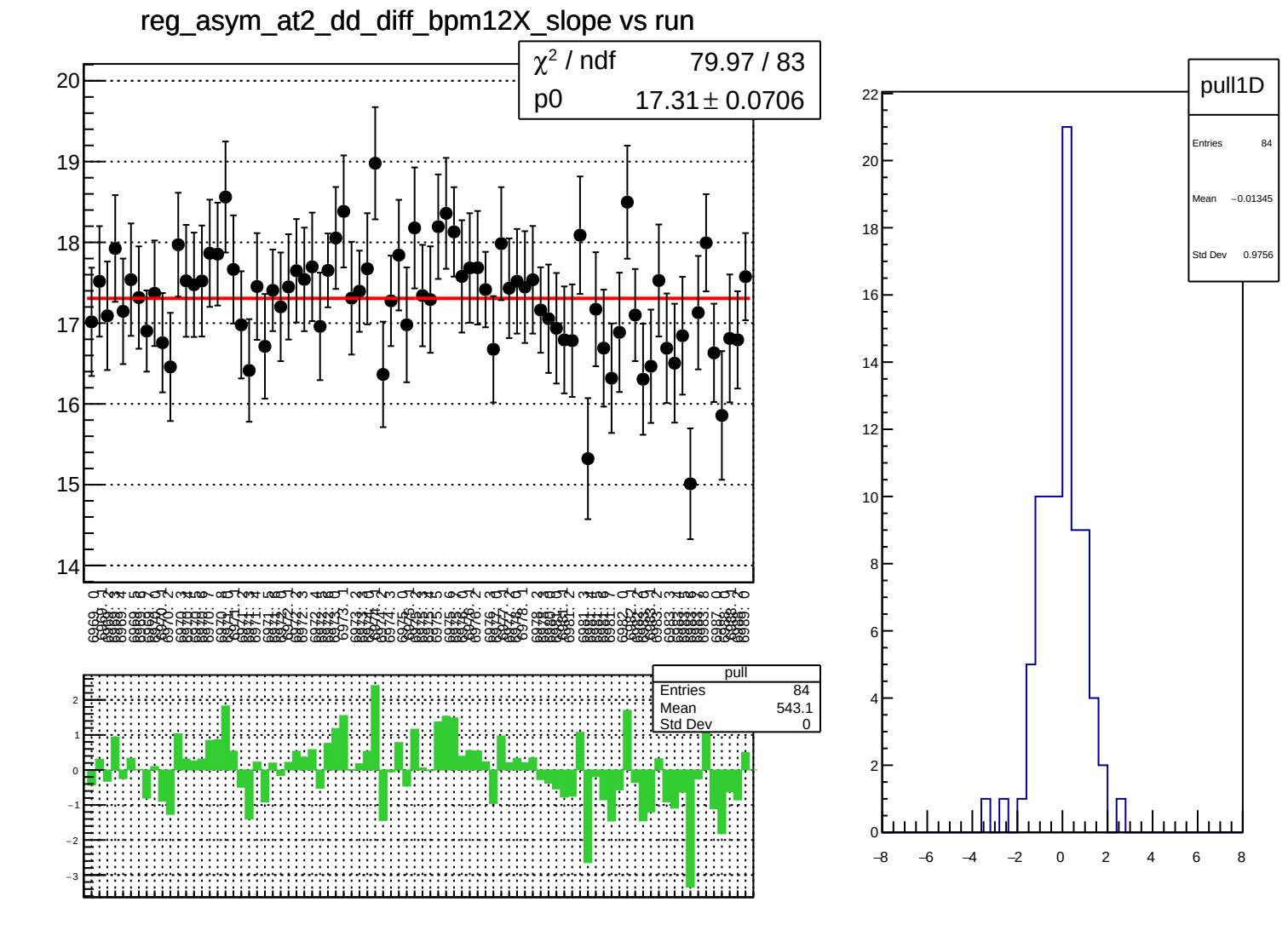

pull1D
Entries 84
Mean 0.001171
Std Dev 0.7515

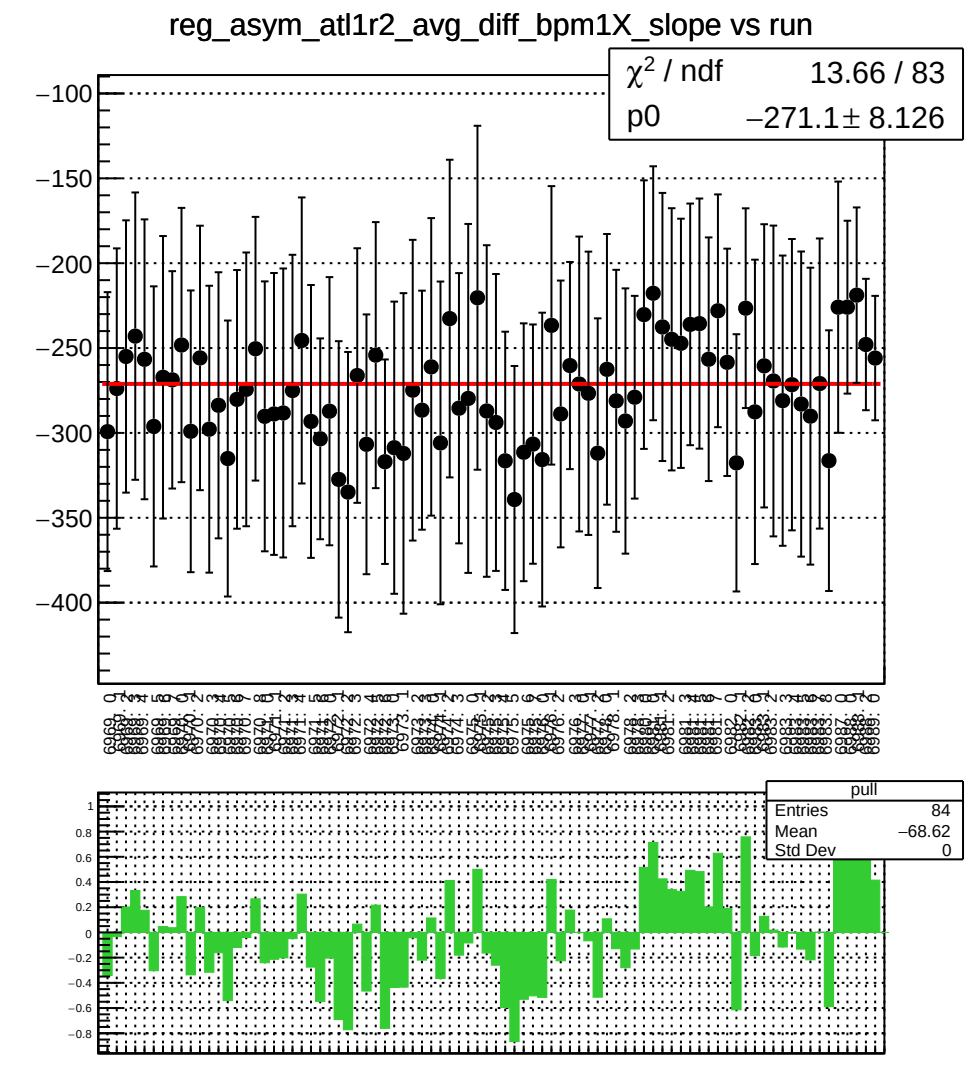

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.26 / 83
p0 40.78 ± 2.163
pull
Entries 84
Mean 84.76
Std Dev 39.81

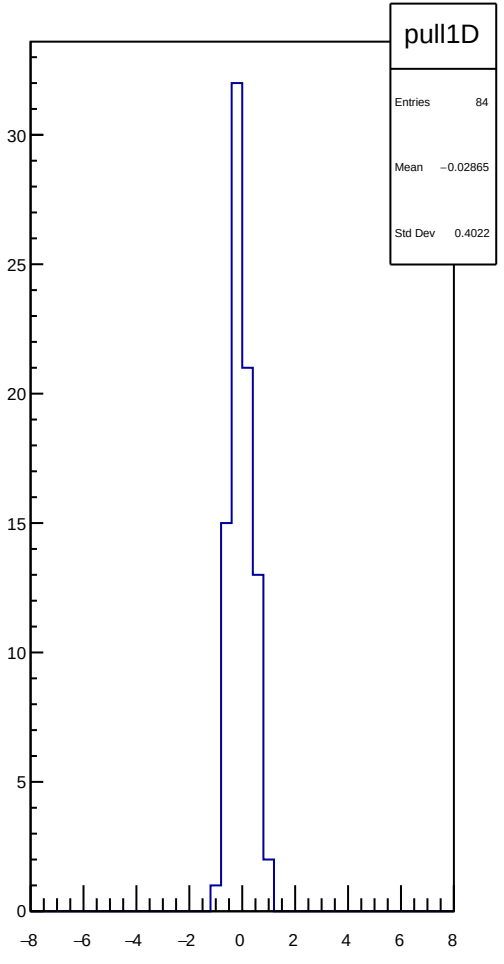

pull1D
Entries 84
Mean −0.02151
Std Dev 0.8946

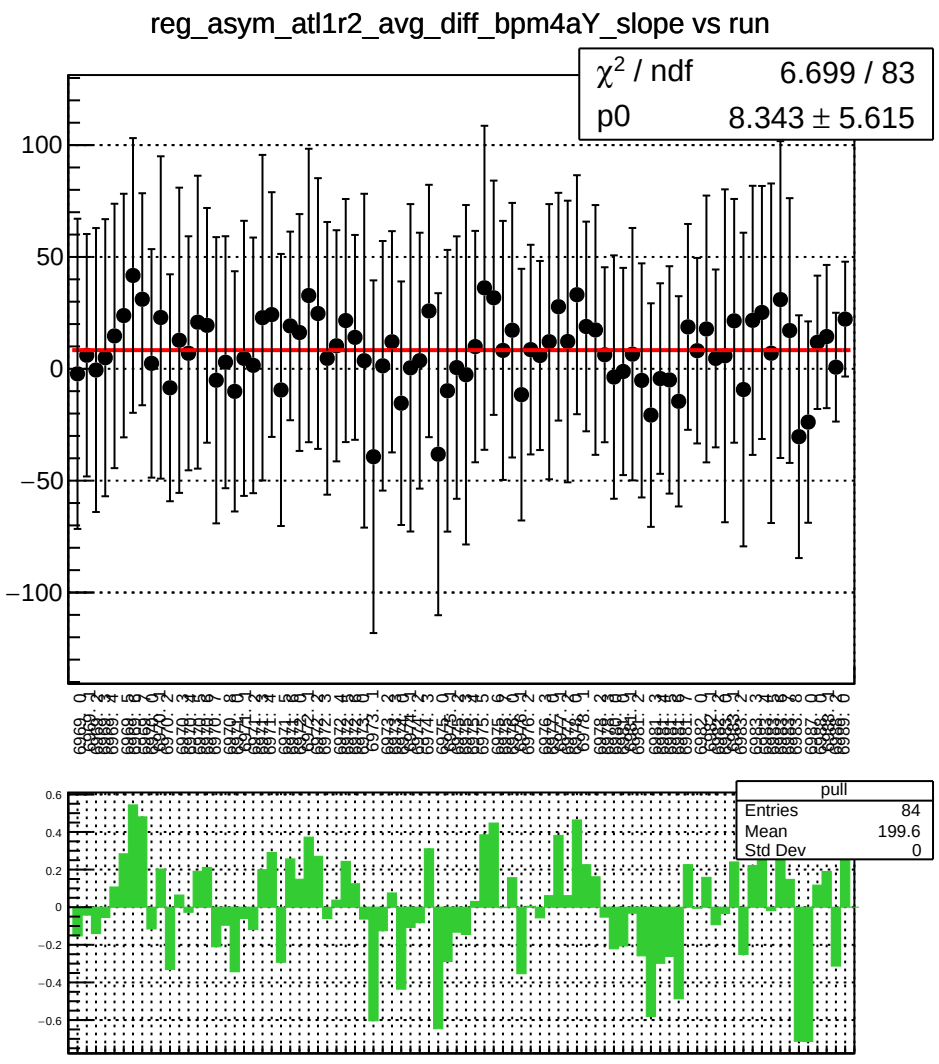

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.65 / 83
p0 −4.234 ± 1.894
pull
Entries 84
Mean −4510
Std Dev 0

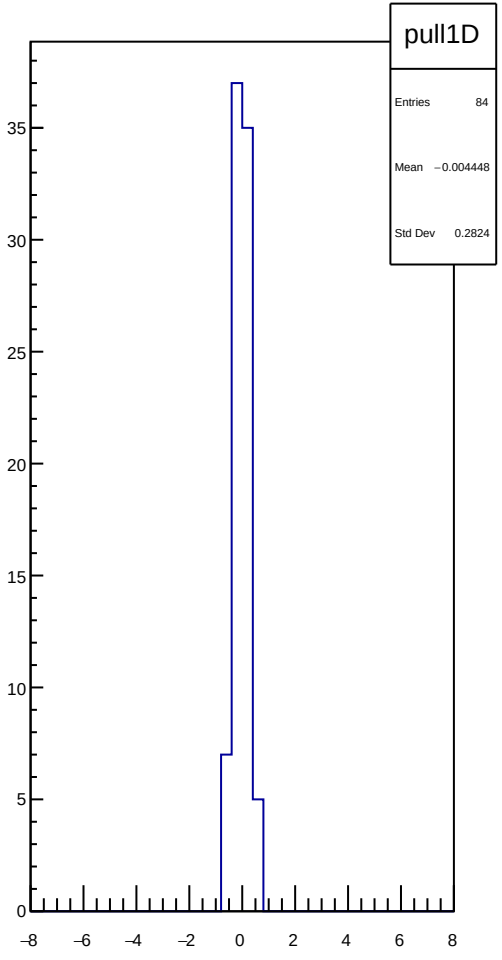

pull1D
Entries 84
Mean 0.0002149
Std Dev 0.7531

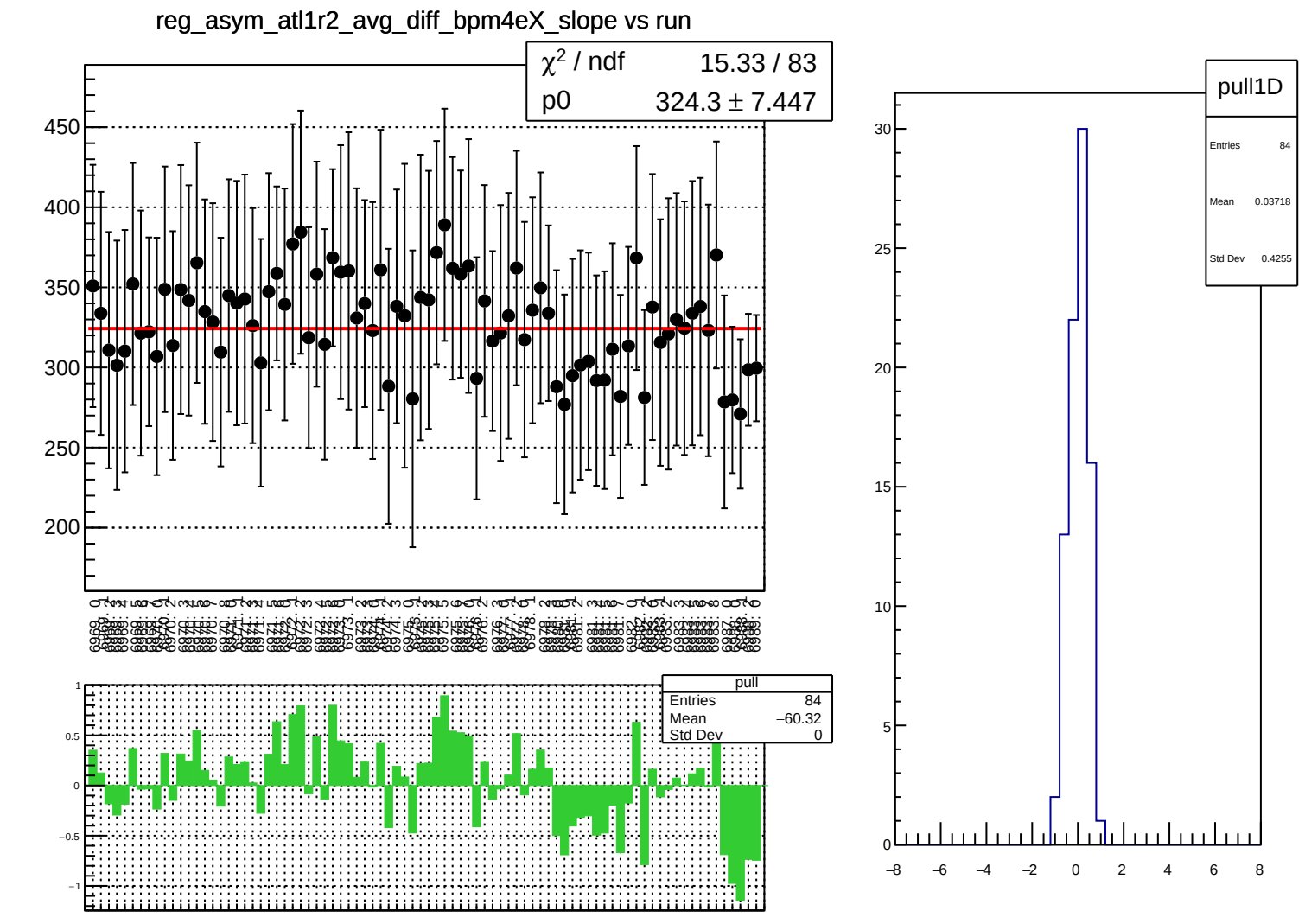

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 79.97 / 83
p0 17.31 ± 0.0706
pull
Entries 84
Mean 543.1
Std Dev 0
pull1D
Entries 84
Mean −0.01345
Std Dev 0.9756

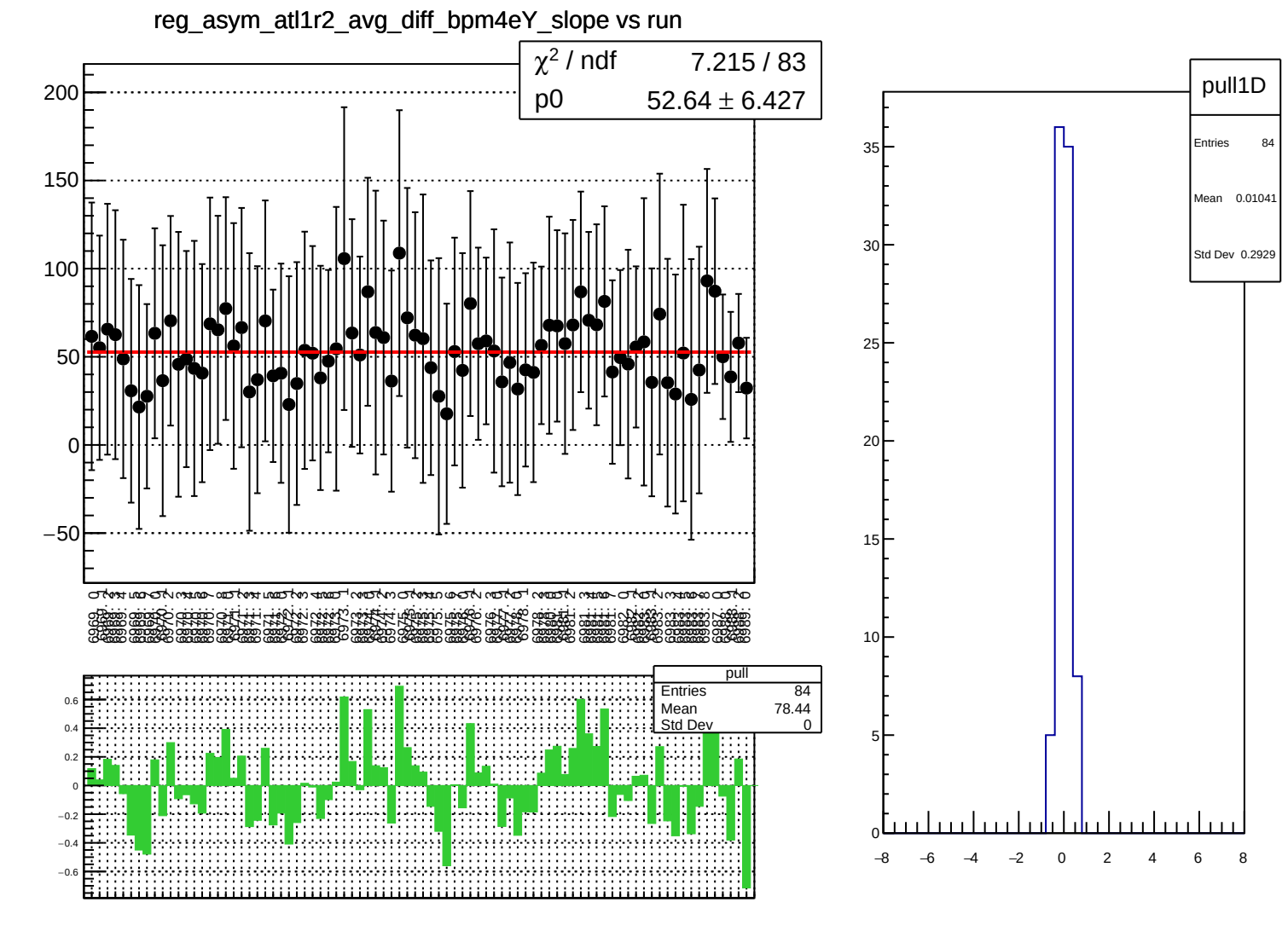

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 13.66 / 83
p0 −271.1 ± 8.126
pull
Entries 84
Mean −68.62
Std Dev 0

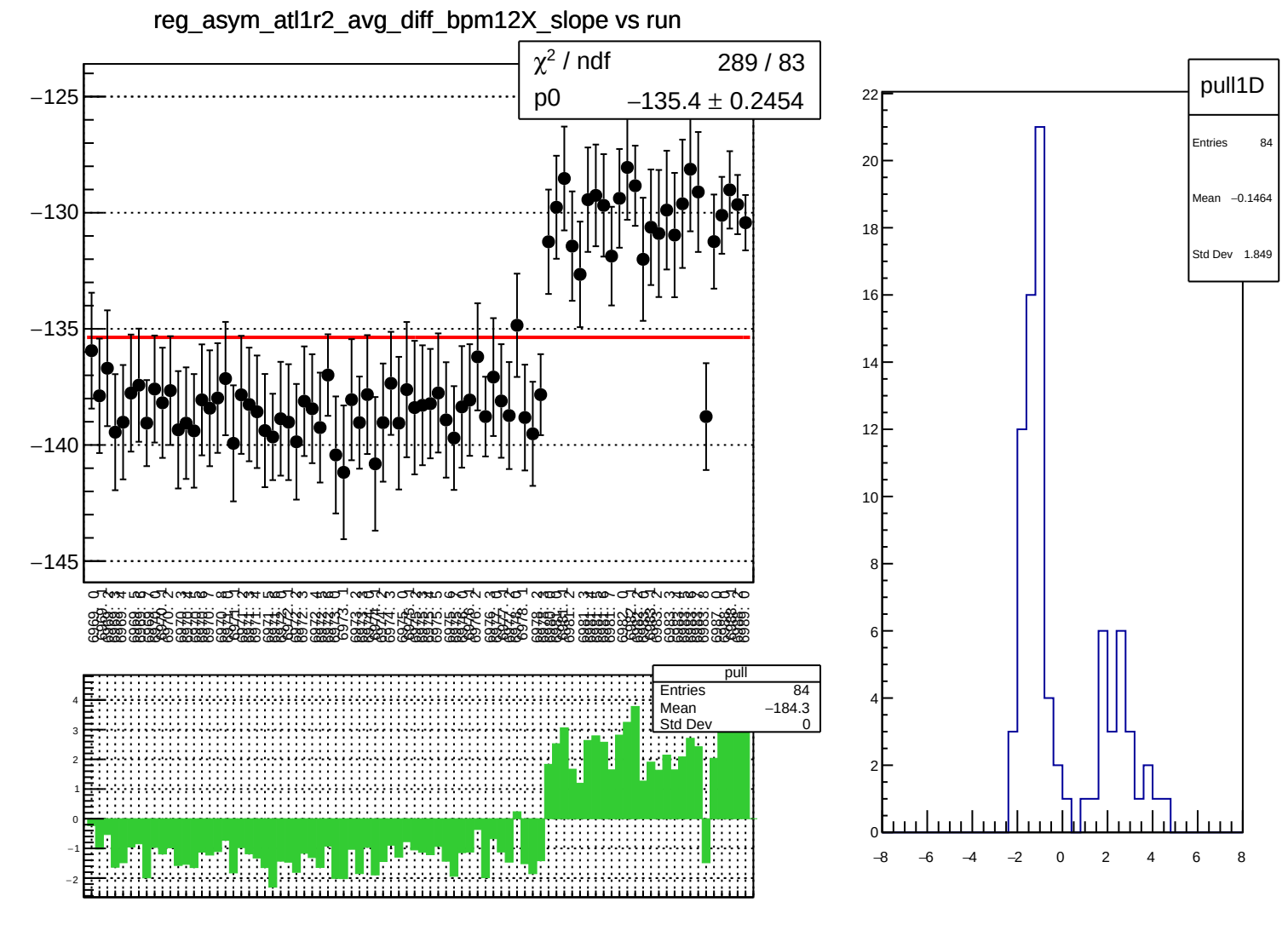

pull1D
Entries 84
Mean −0.02865
Std Dev 0.4022

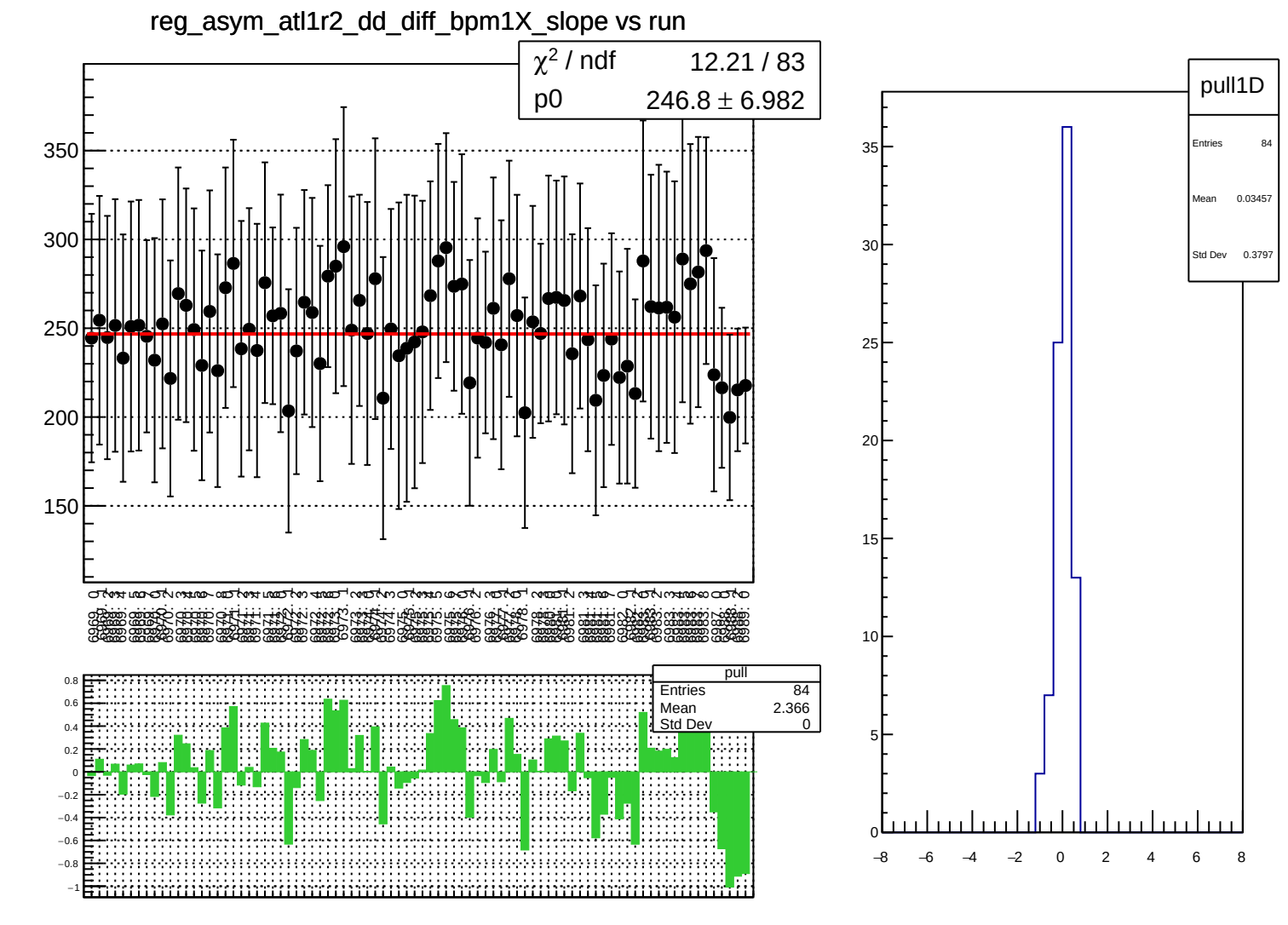

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.699 / 83
p0 8.343 ± 5.615
pull
Entries 84
Mean 199.6
Std Dev 0

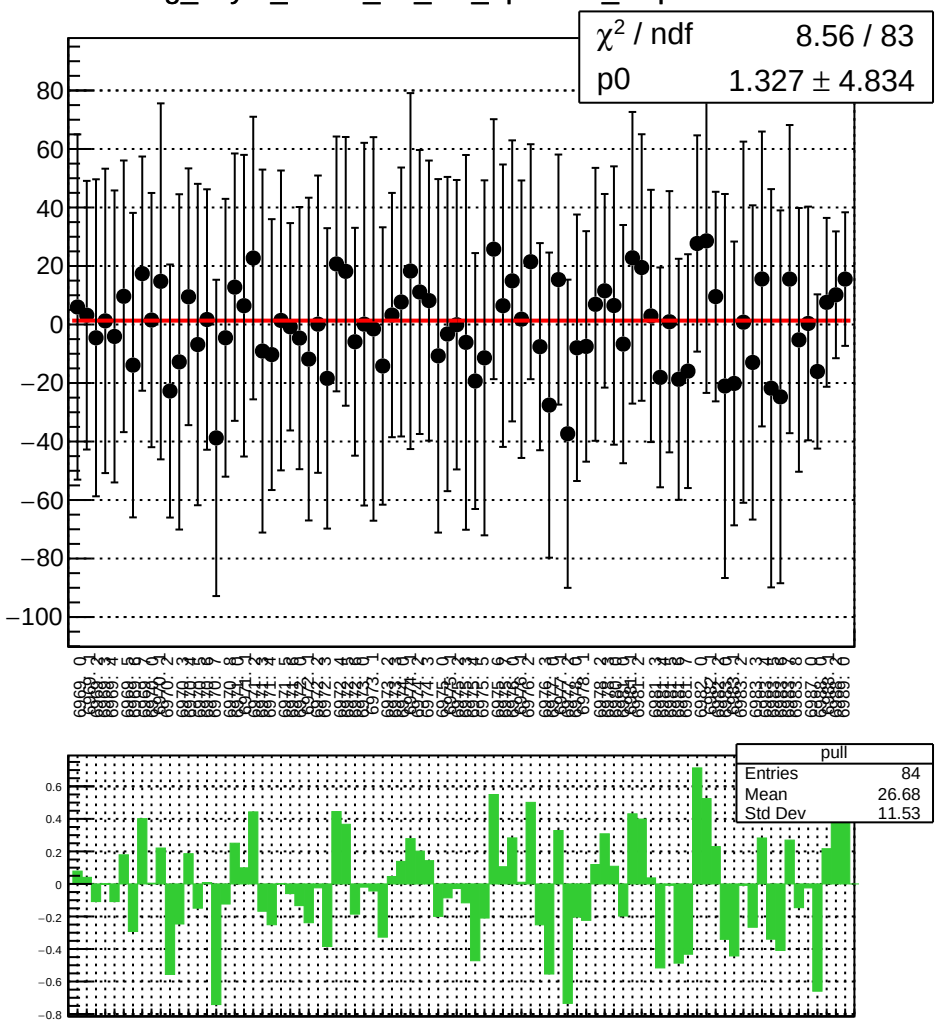

pull1D
Entries 84
Mean −0.004448
Std Dev 0.2824

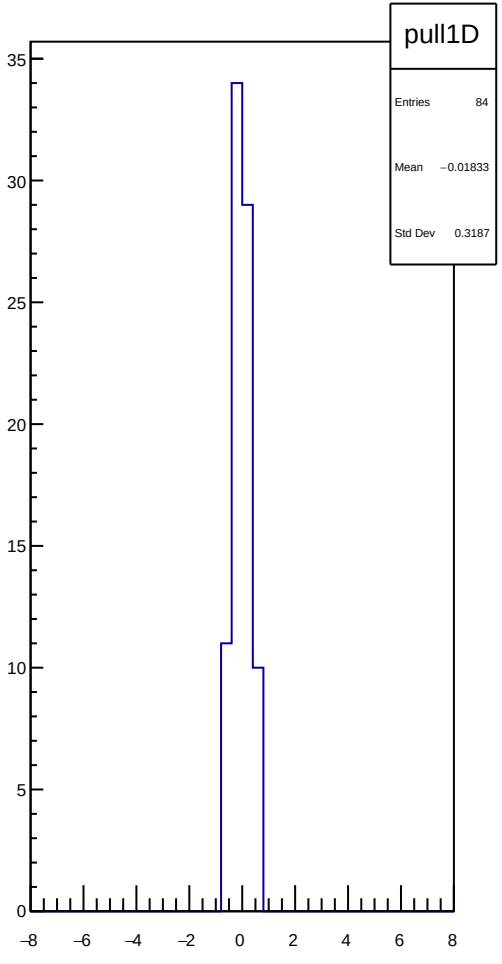

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.33 / 83
p0 324.3 ± 7.447
pull
Entries 84
Mean −60.32
Std Dev 0
pull1D
Entries 84
Mean 0.03718
Std Dev 0.4255

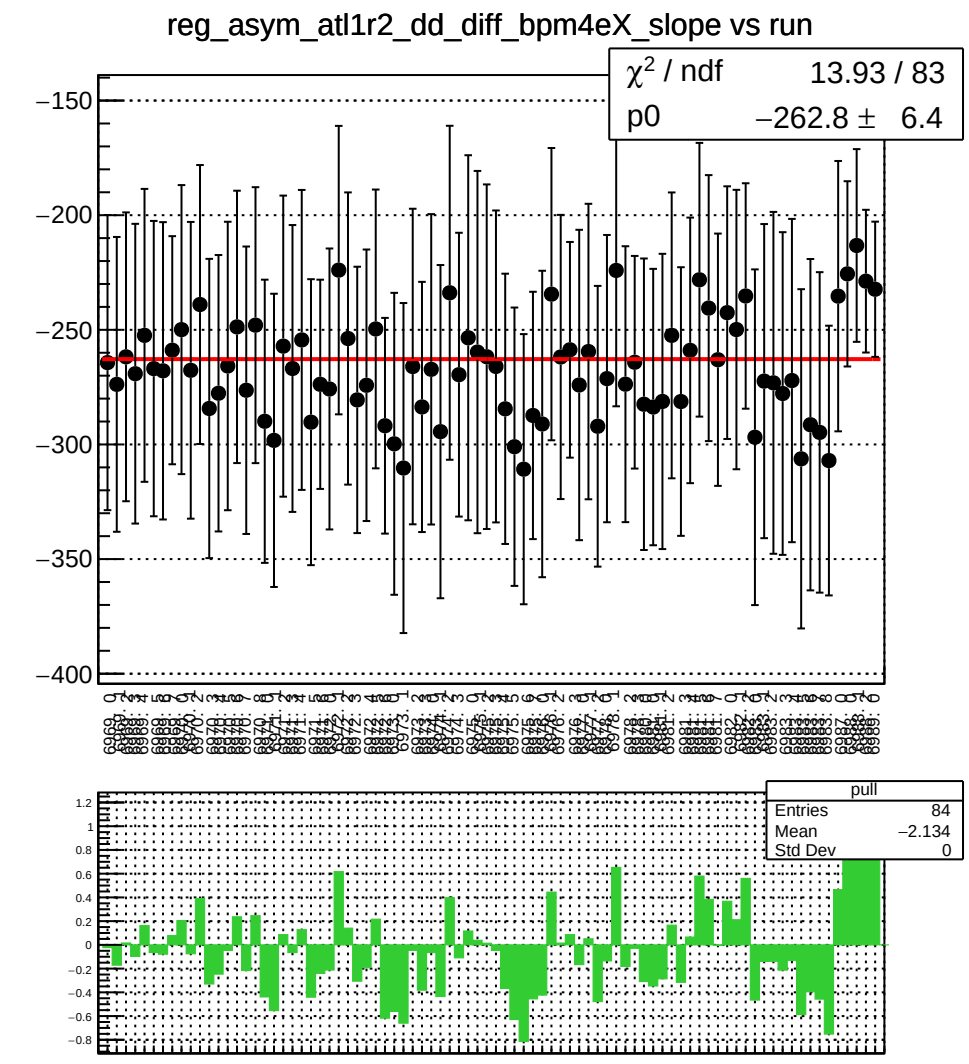

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.215 / 83
p0 52.64 ± 6.427
pull
Entries 84
Mean 78.44
Std Dev 0
pull1D
Entries 84
Mean 0.01041
Std Dev 0.2929

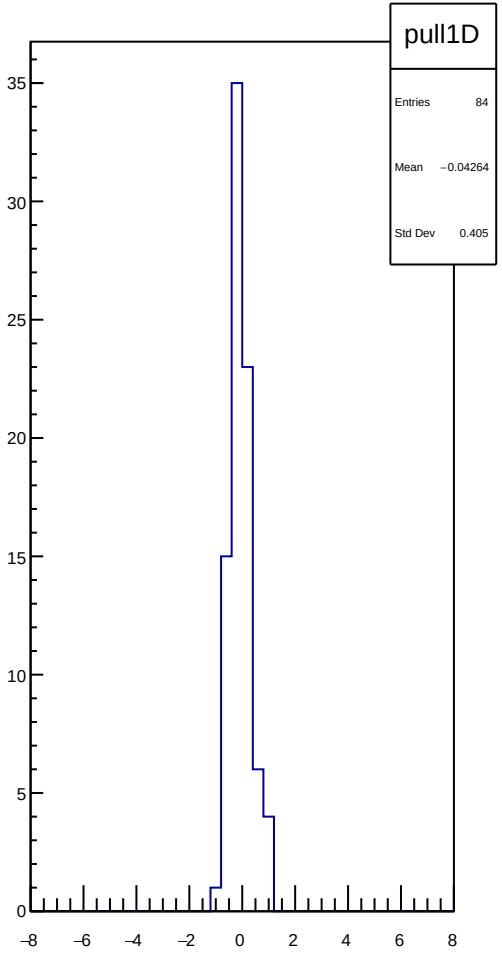

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 289 / 83
p0 −135.4 ± 0.2454
−125
−130
−135
−140
−145
pull
Entries 84
Mean −184.3
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.1464
Std Dev 1.849
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

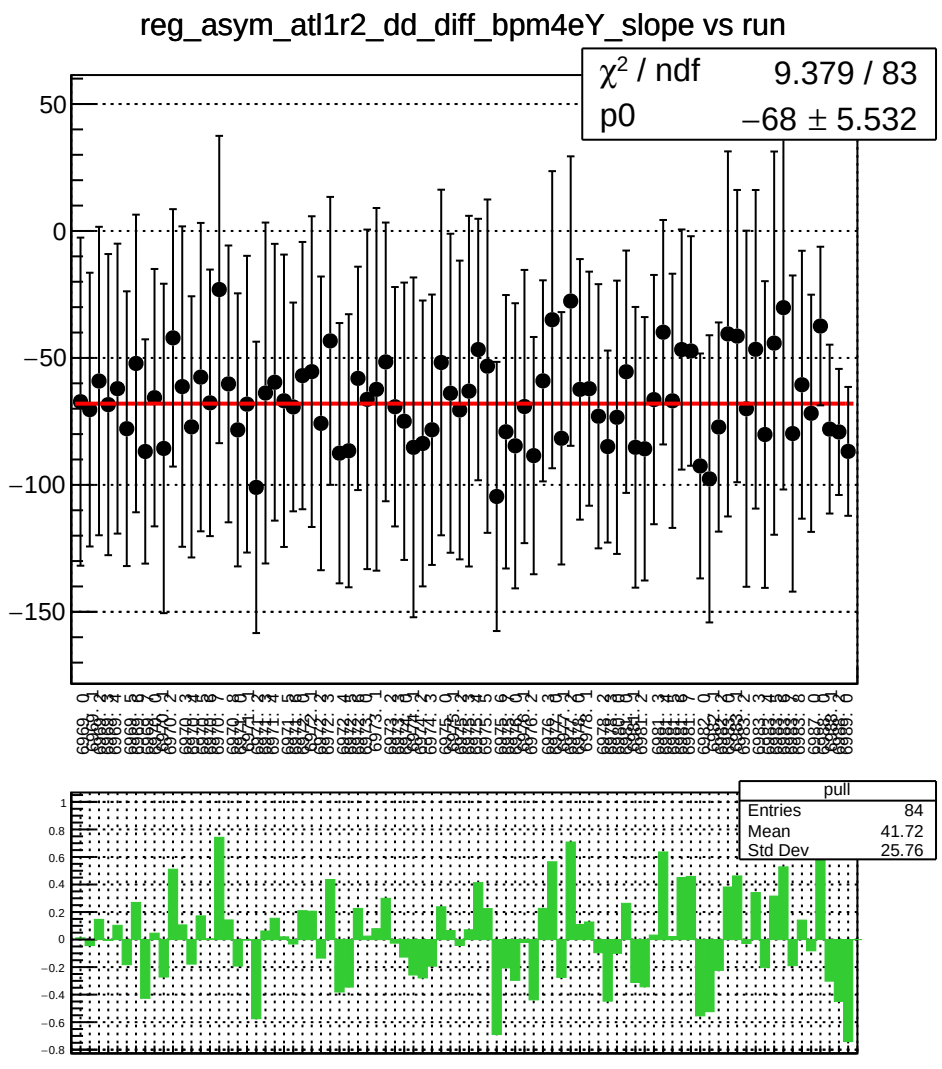

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 12.21 / 83
p0 246.8 ± 6.982
350
300
250
200
150
pull
Entries 84
Mean 2.366
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 84
Mean 0.03457
Std Dev 0.3797
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

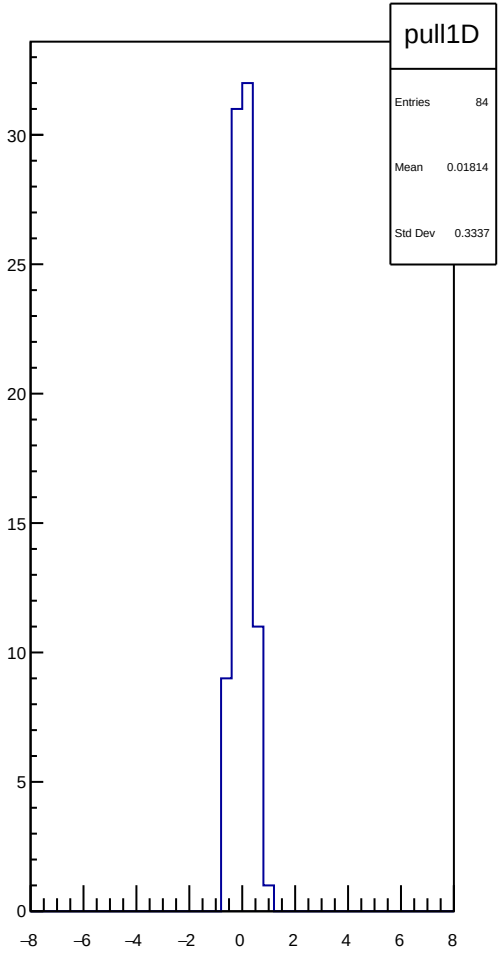

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.56 / 83
p0 1.327 ± 4.834
pull
Entries 84
Mean 26.68
Std Dev 11.53

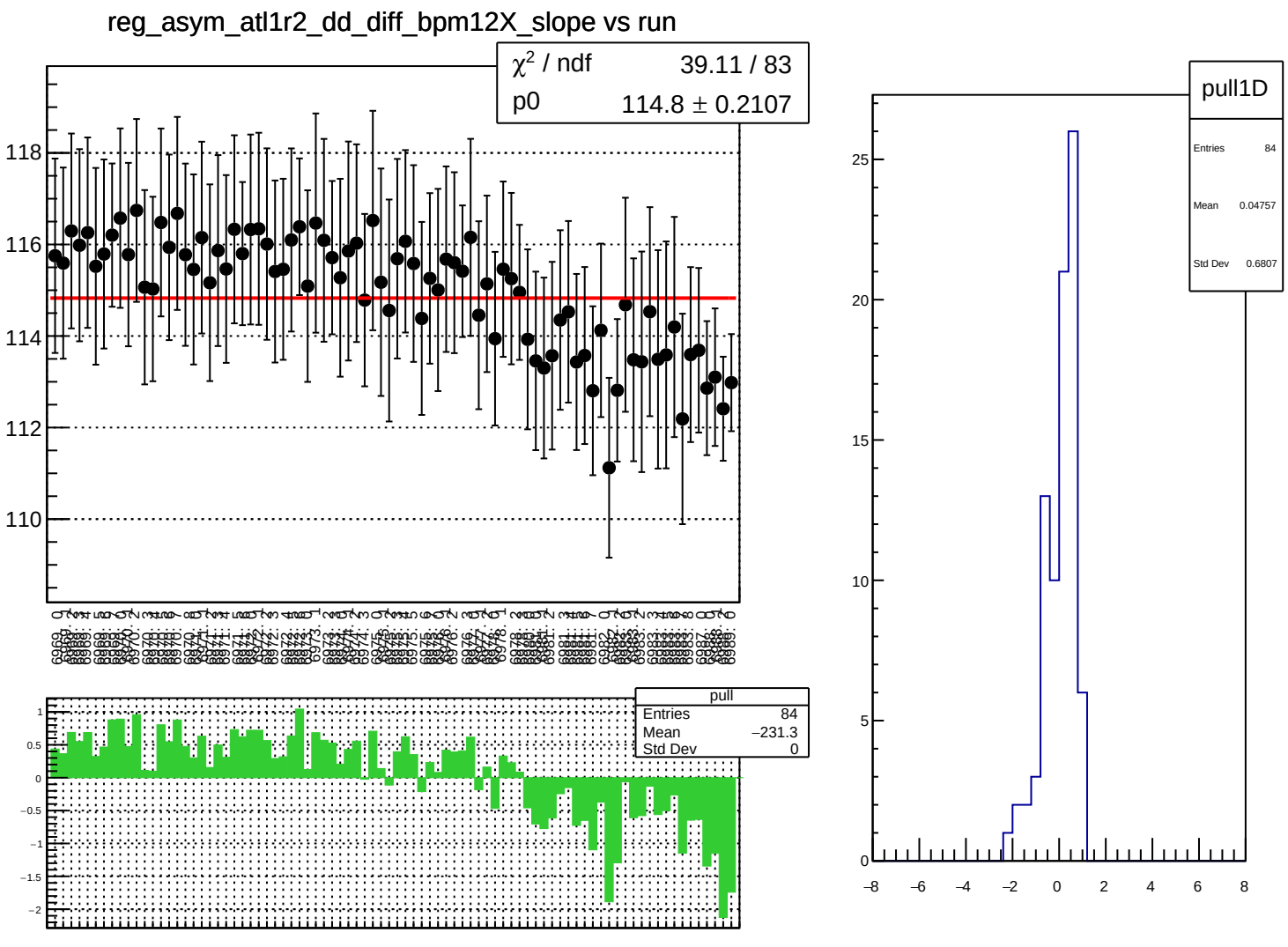

pull1D
Entries 84
Mean −0.01833
Std Dev 0.3187

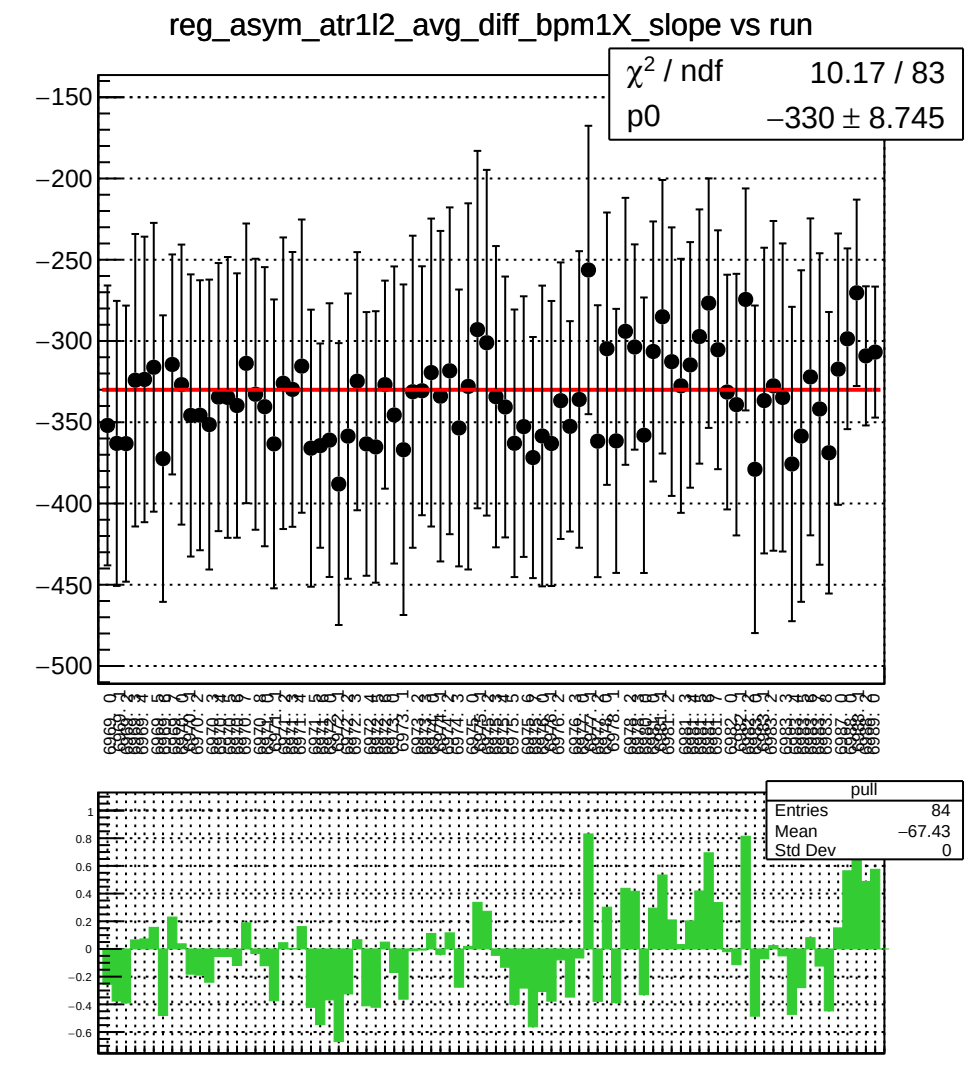

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.93 / 83
p0 −262.8 ± 6.4
pull
Entries 84
Mean −2.134
Std Dev 0

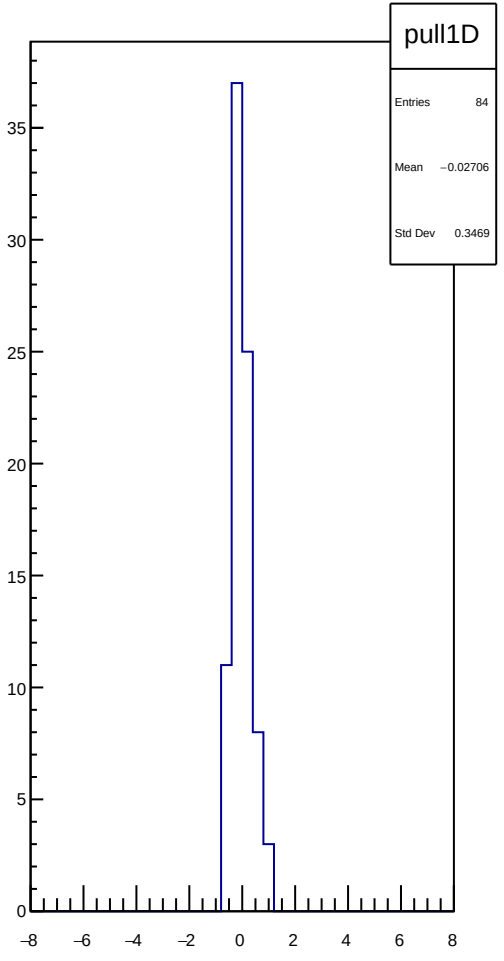

pull1D
Entries 84
Mean −0.04264
Std Dev 0.405

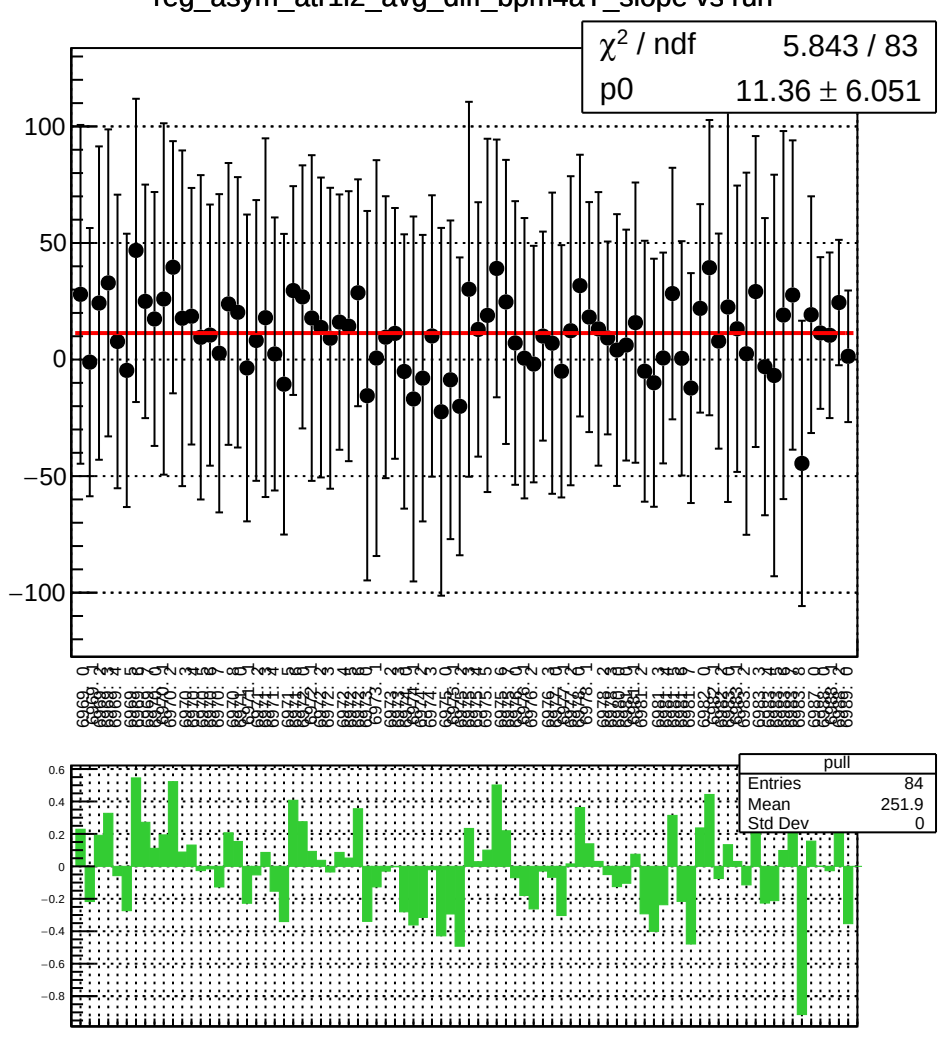

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.379 / 83
p0 −68 ± 5.532
pull
Entries 84
Mean 41.72
Std Dev 25.76

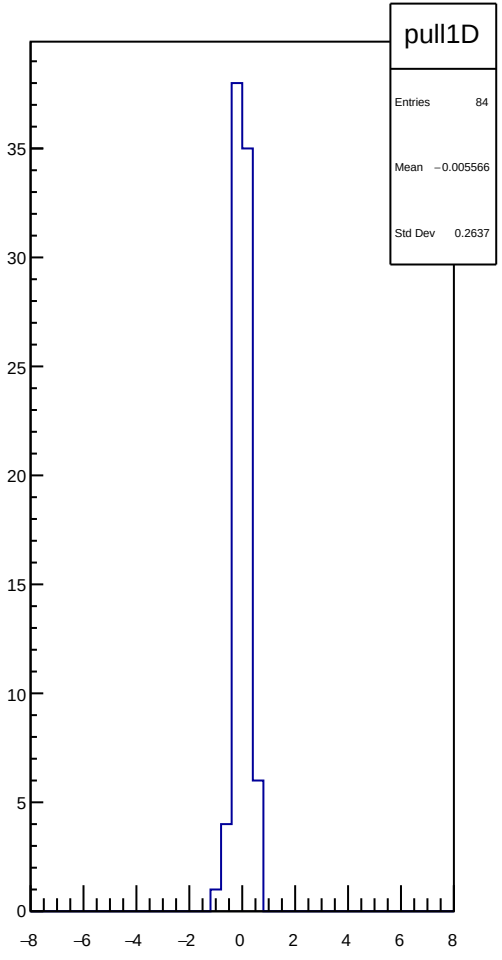

pull1D
Entries 84
Mean 0.01814
Std Dev 0.3337

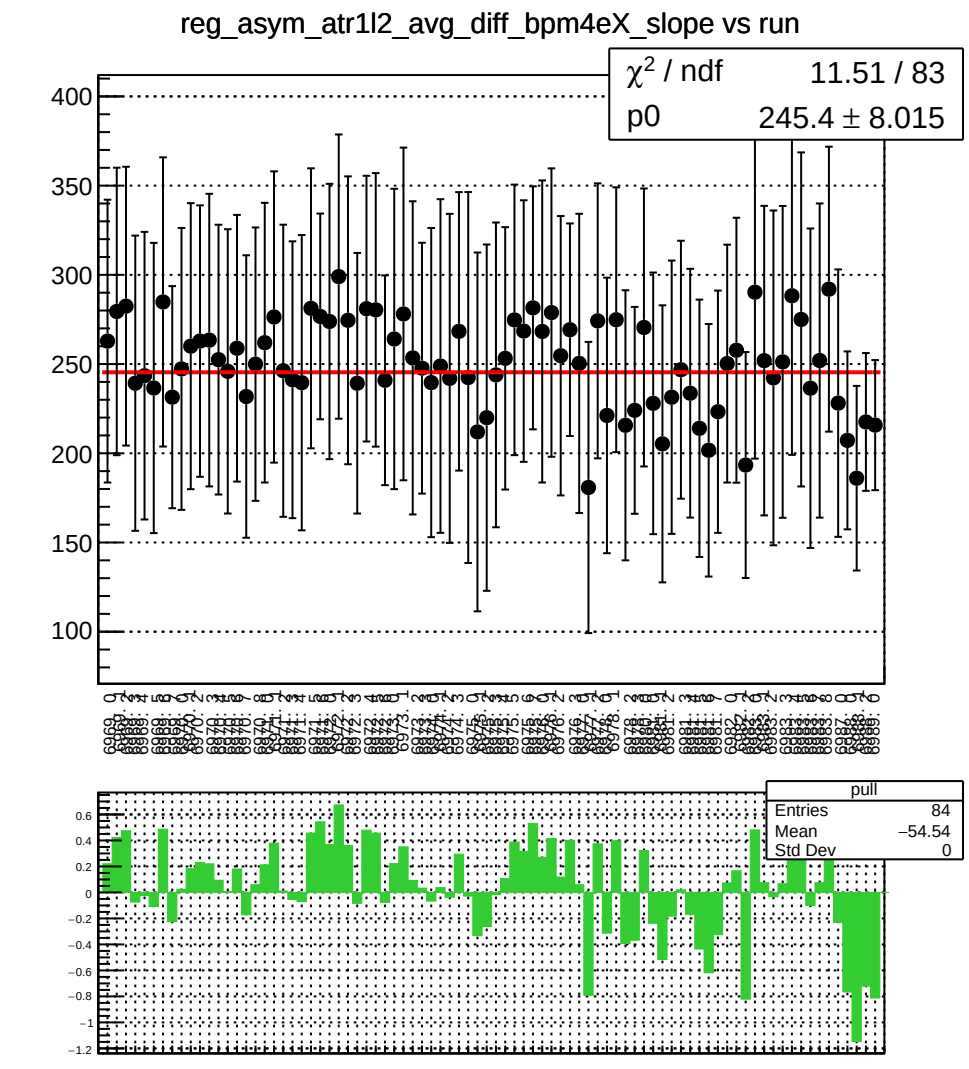

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 39.11 / 83
p0 114.8 ± 0.2107
118
116
114
112
110
pull
Entries 84
Mean −231.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.04757
Std Dev 0.6807
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

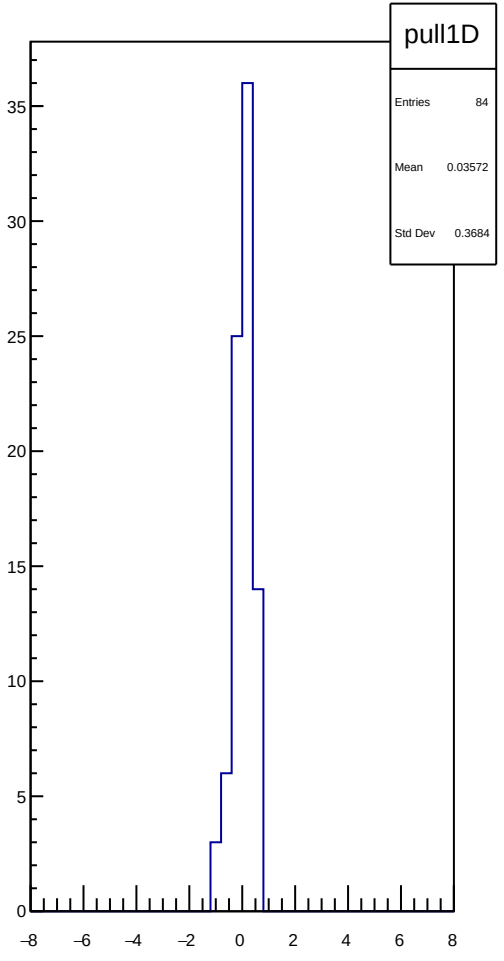

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.17 / 83
p0 −330 ± 8.745
pull
Entries 84
Mean −67.43
Std Dev 0

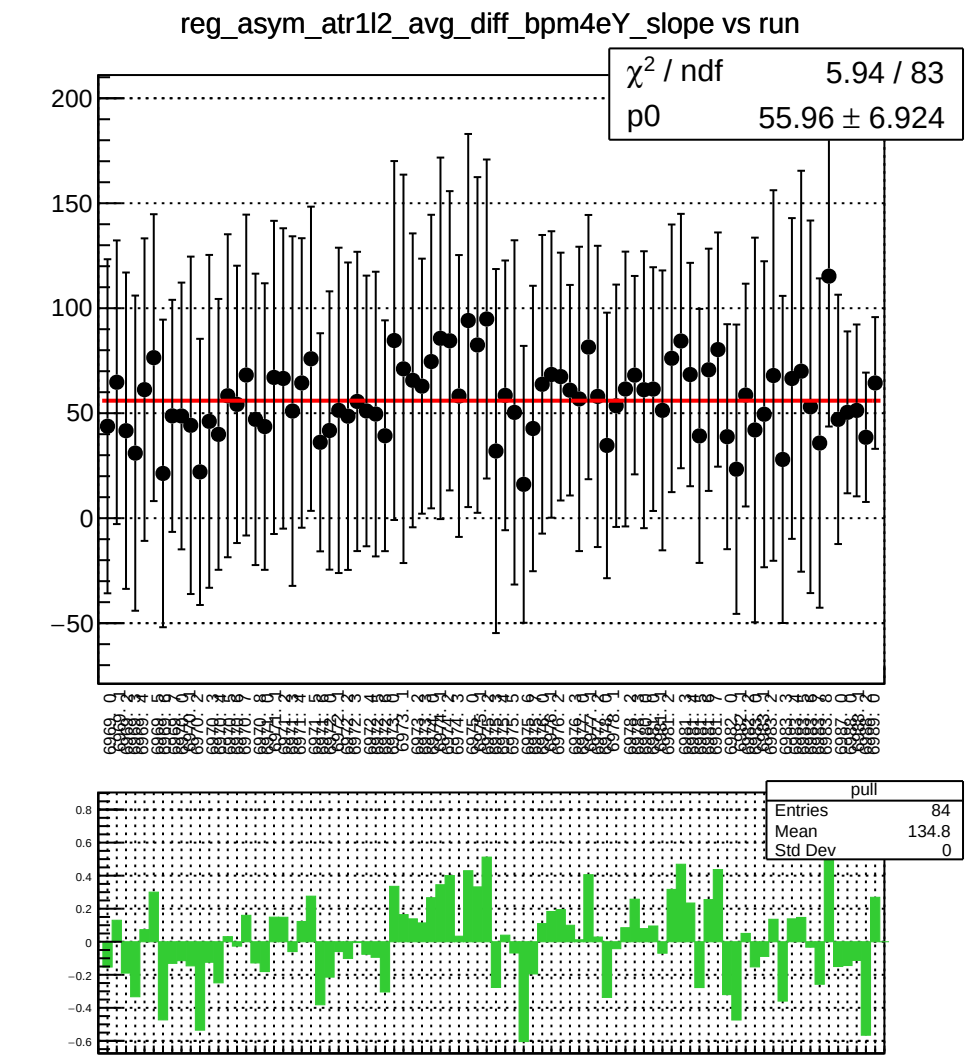

pull1D
Entries 84
Mean −0.02706
Std Dev 0.3469

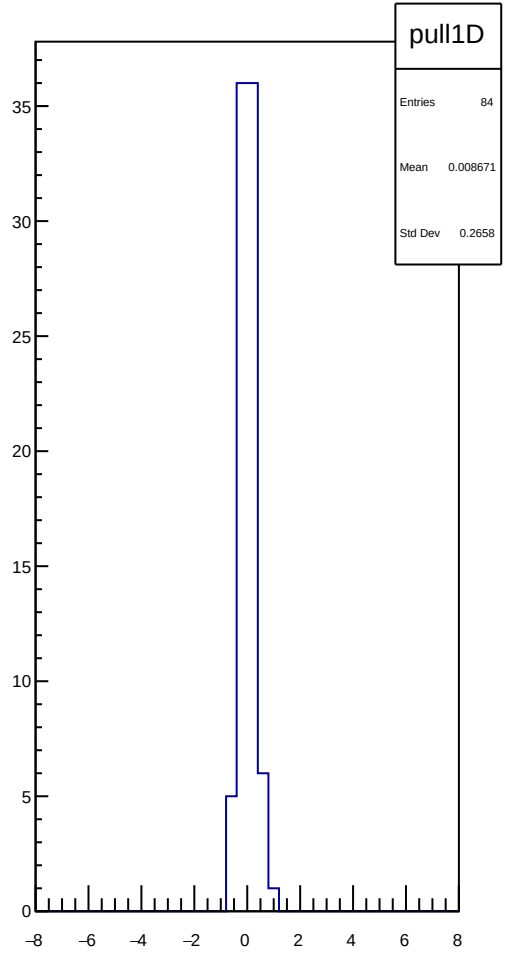

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 5.843 / 83
p0 11.36 ± 6.051
pull
Entries 84
Mean 251.9
Std Dev 0

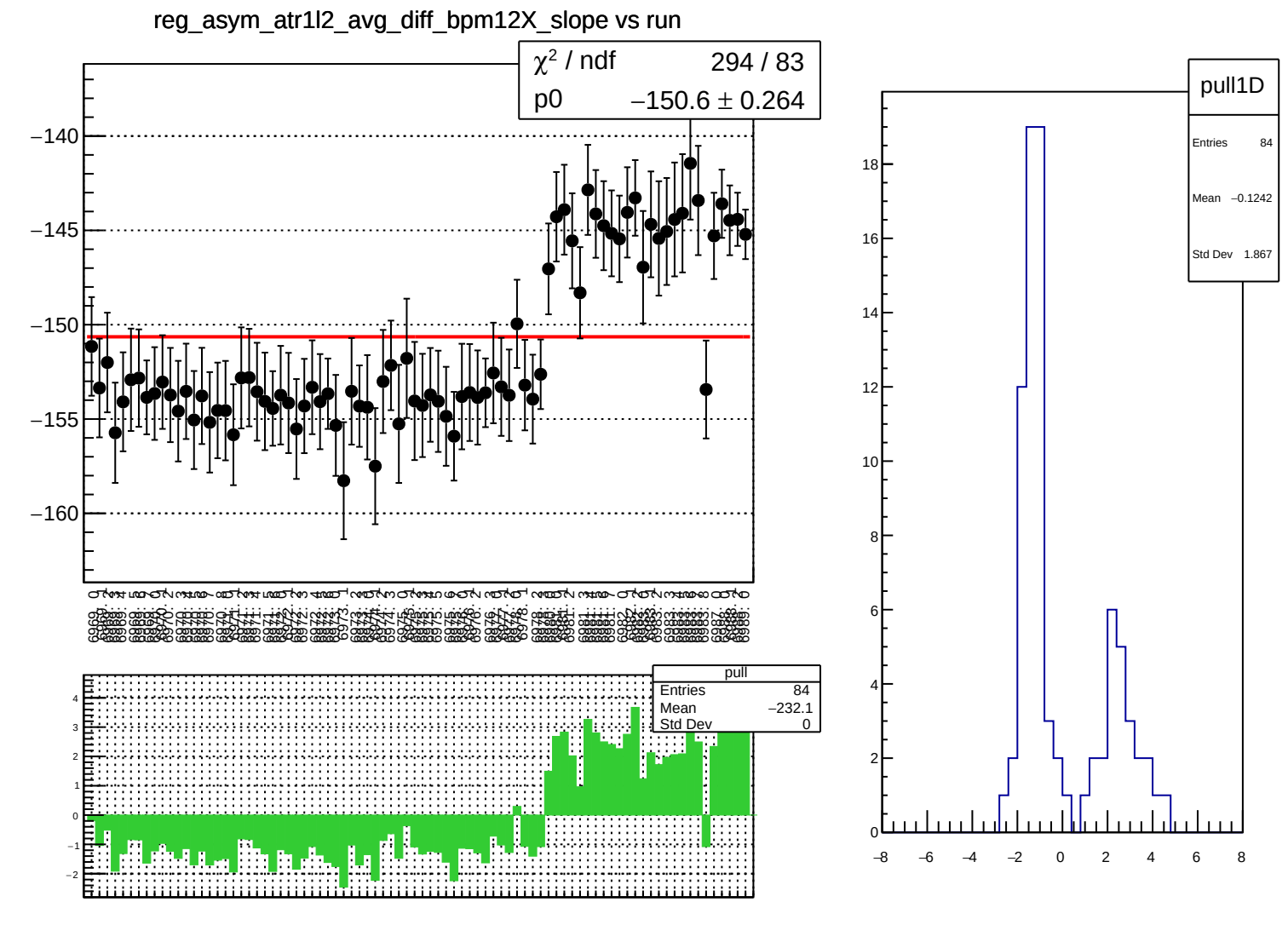

pull1D
Entries 84
Mean −0.005566
Std Dev 0.2637

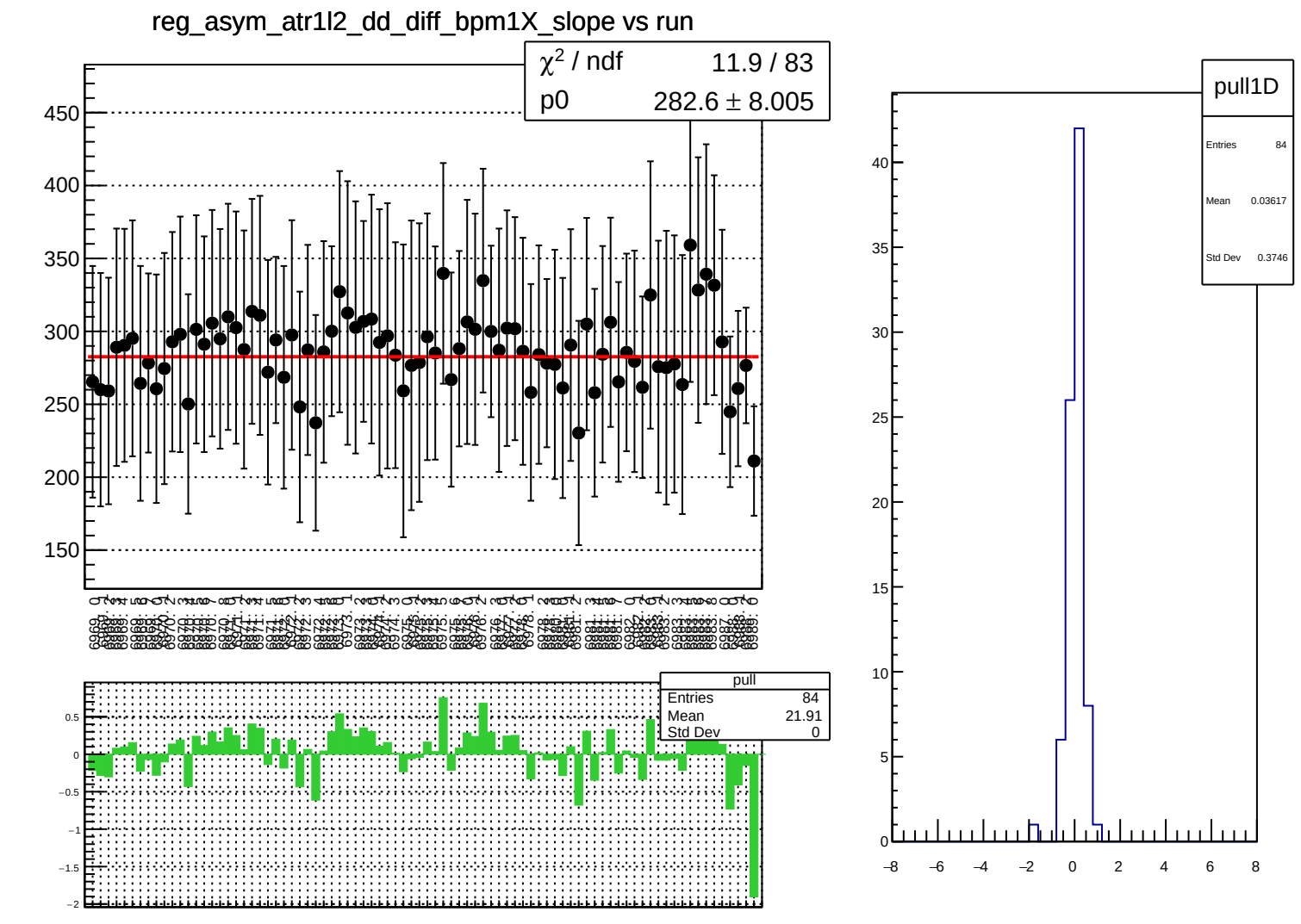

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.51 / 83
p0 245.4 ± 8.015
pull
Entries 84
Mean −54.54
Std Dev 0

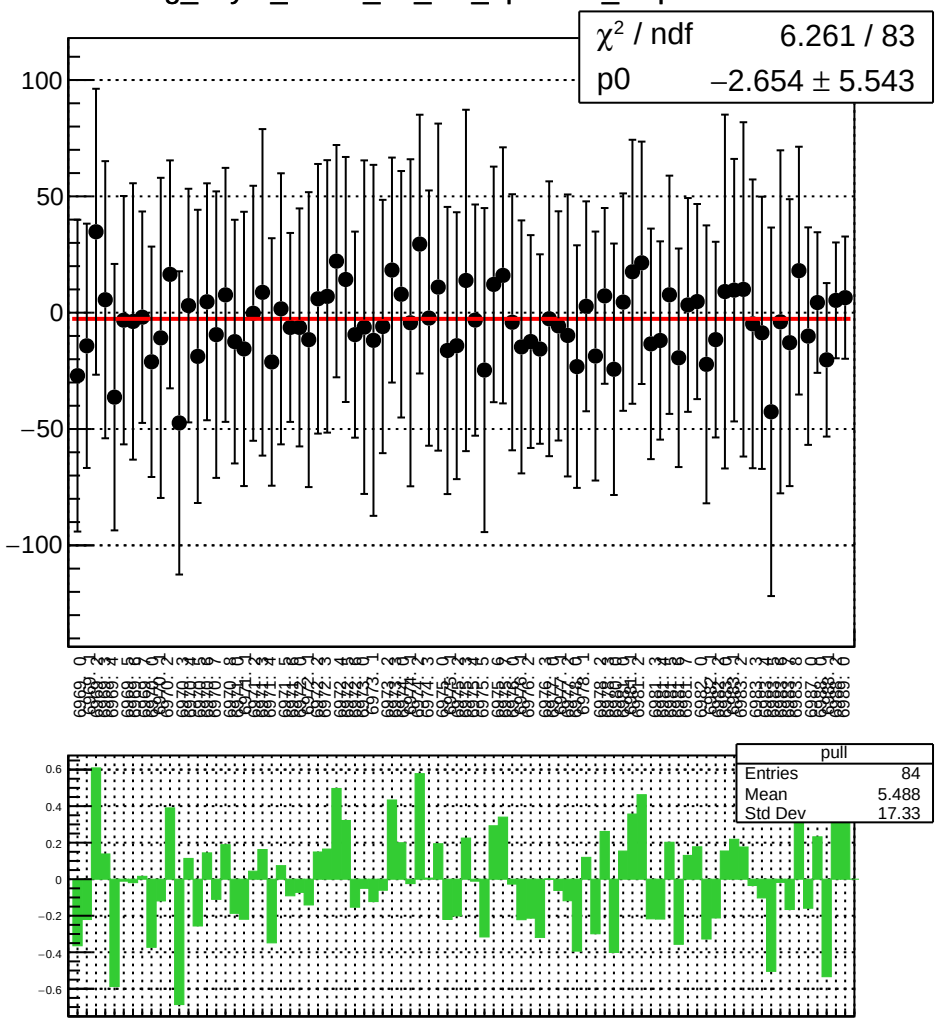

pull1D
Entries 84
Mean 0.03572
Std Dev 0.3684

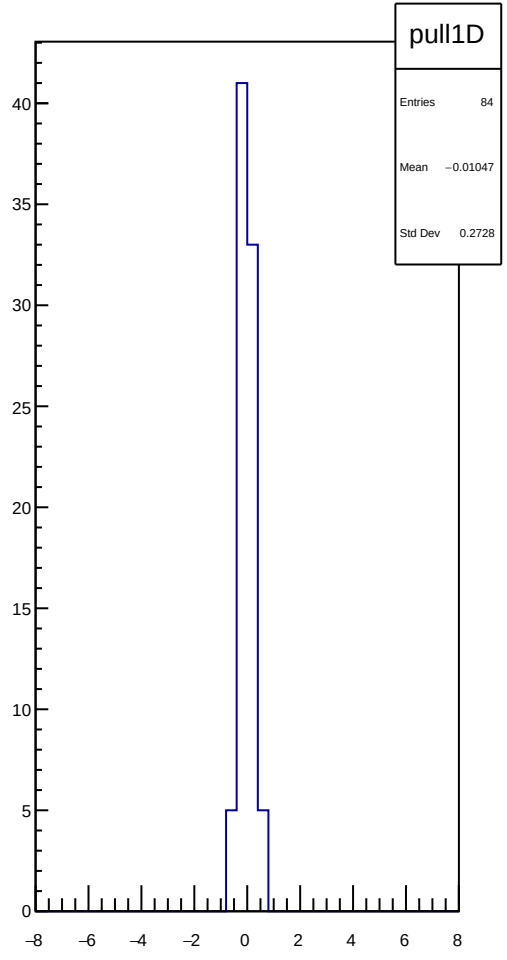

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.94 / 83
p0 55.96 ± 6.924
pull
Entries 84
Mean 134.8
Std Dev 0

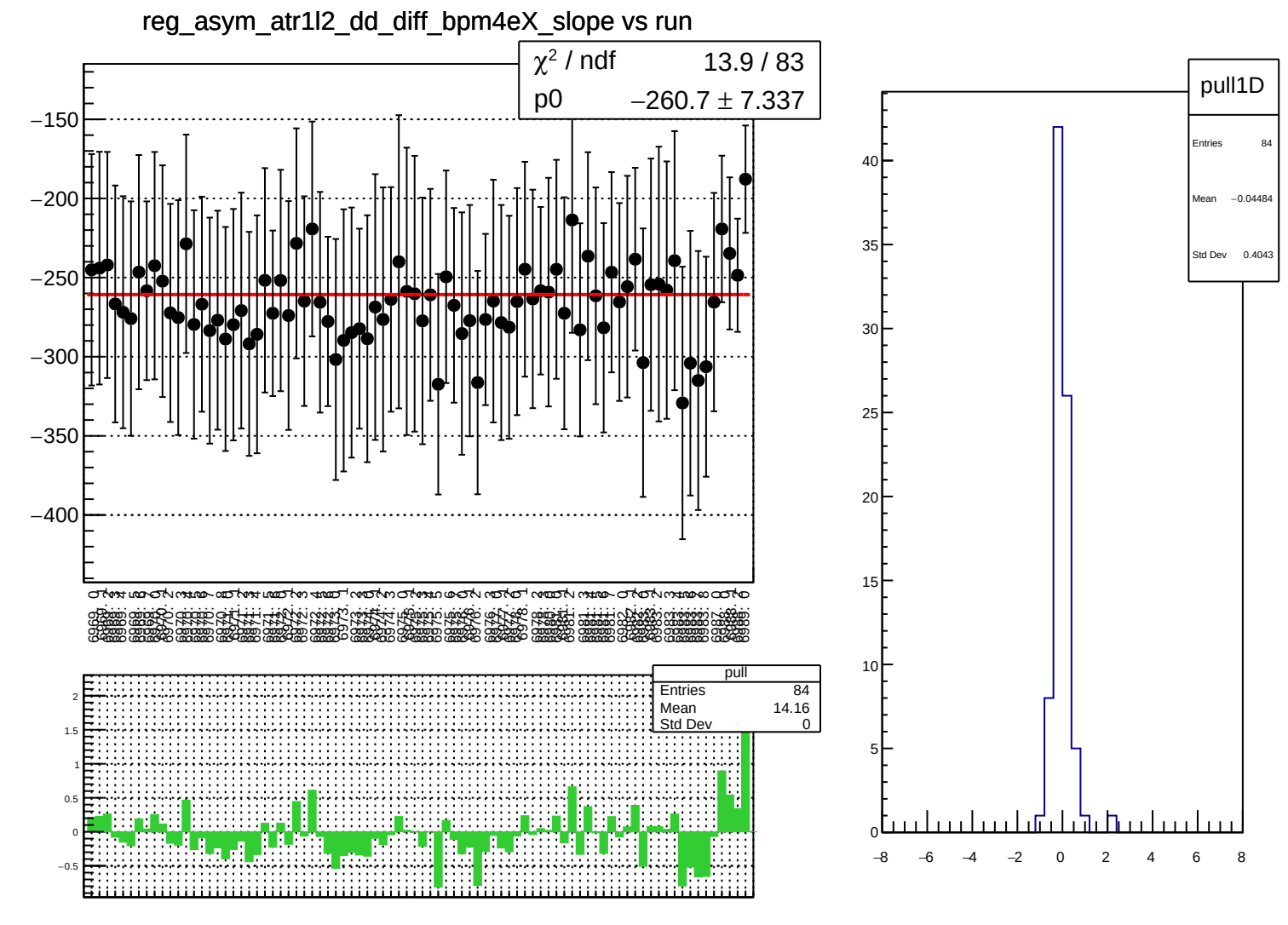

pull1D
Entries 84
Mean 0.008671
Std Dev 0.2658

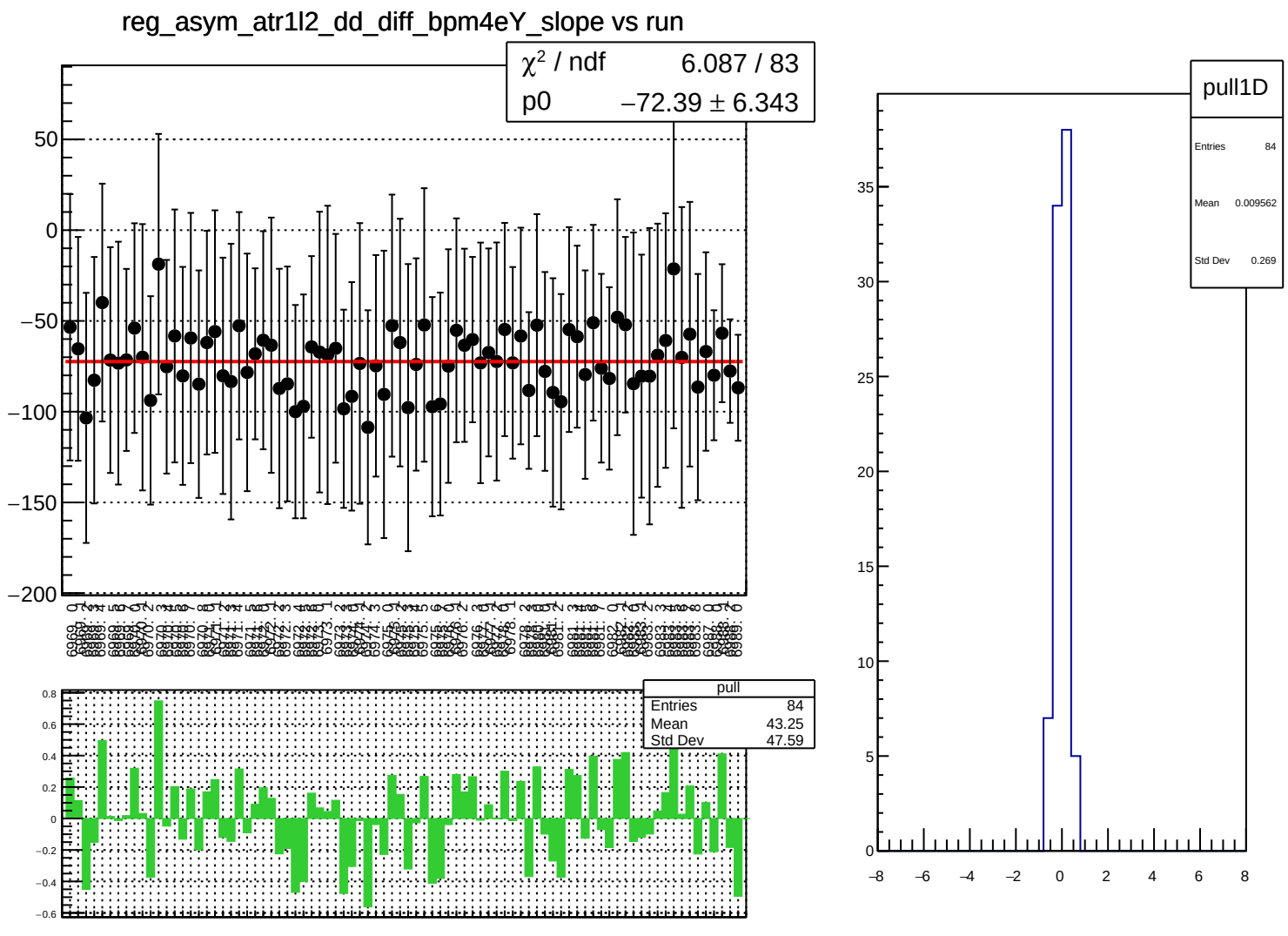

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 294 / 83
p0 −150.6 ± 0.264
−140
−145
−150
−155
−160
pull
Entries 84
Mean −232.1
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.1242
Std Dev 1.867
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

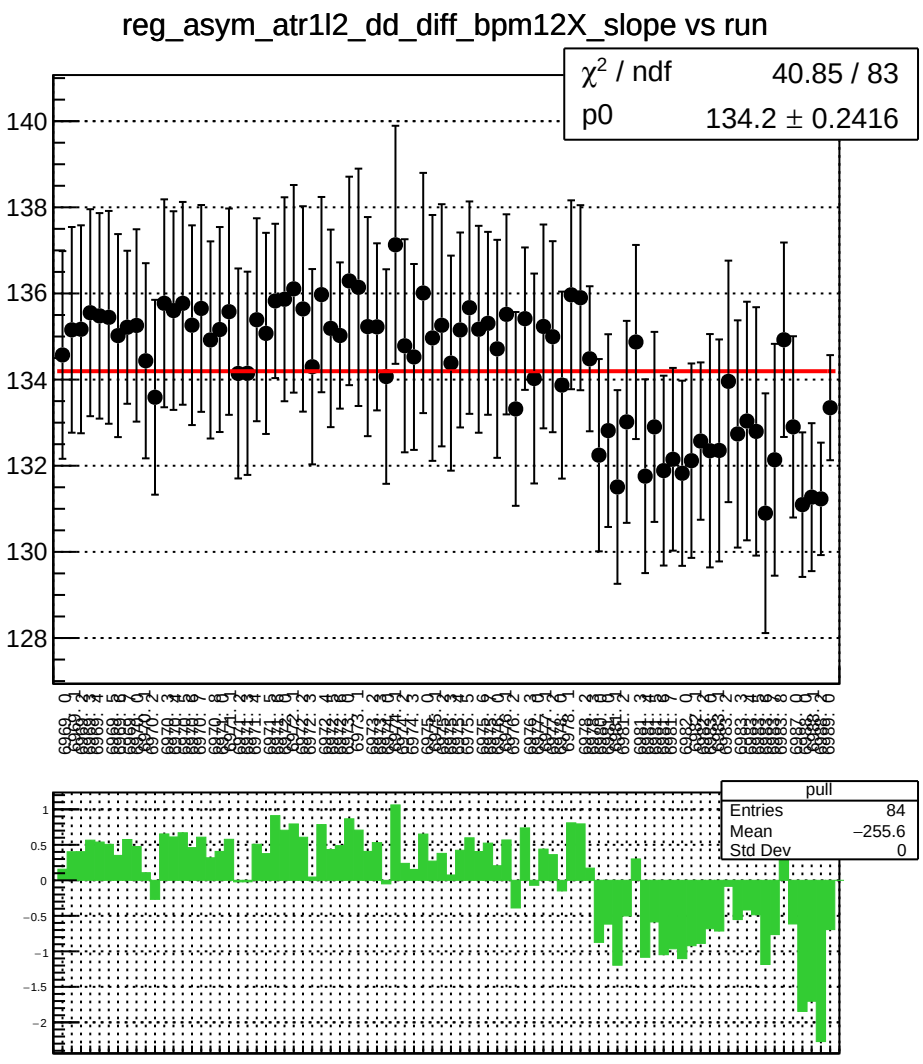

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.9 / 83
p0 282.6 ± 8.005
pull
Entries 84
Mean 21.91
Std Dev 0
pull1D
Entries 84
Mean 0.03617
Std Dev 0.3746

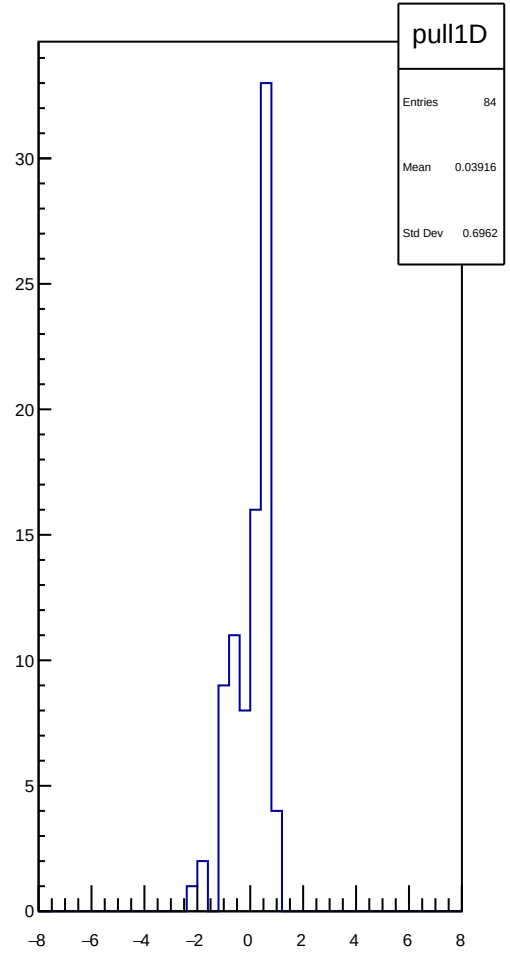

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.261 / 83
p0 −2.654 ± 5.543
100
50
0
−50
−100
pull
Entries 84
Mean 5.488
Std Dev 17.33
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

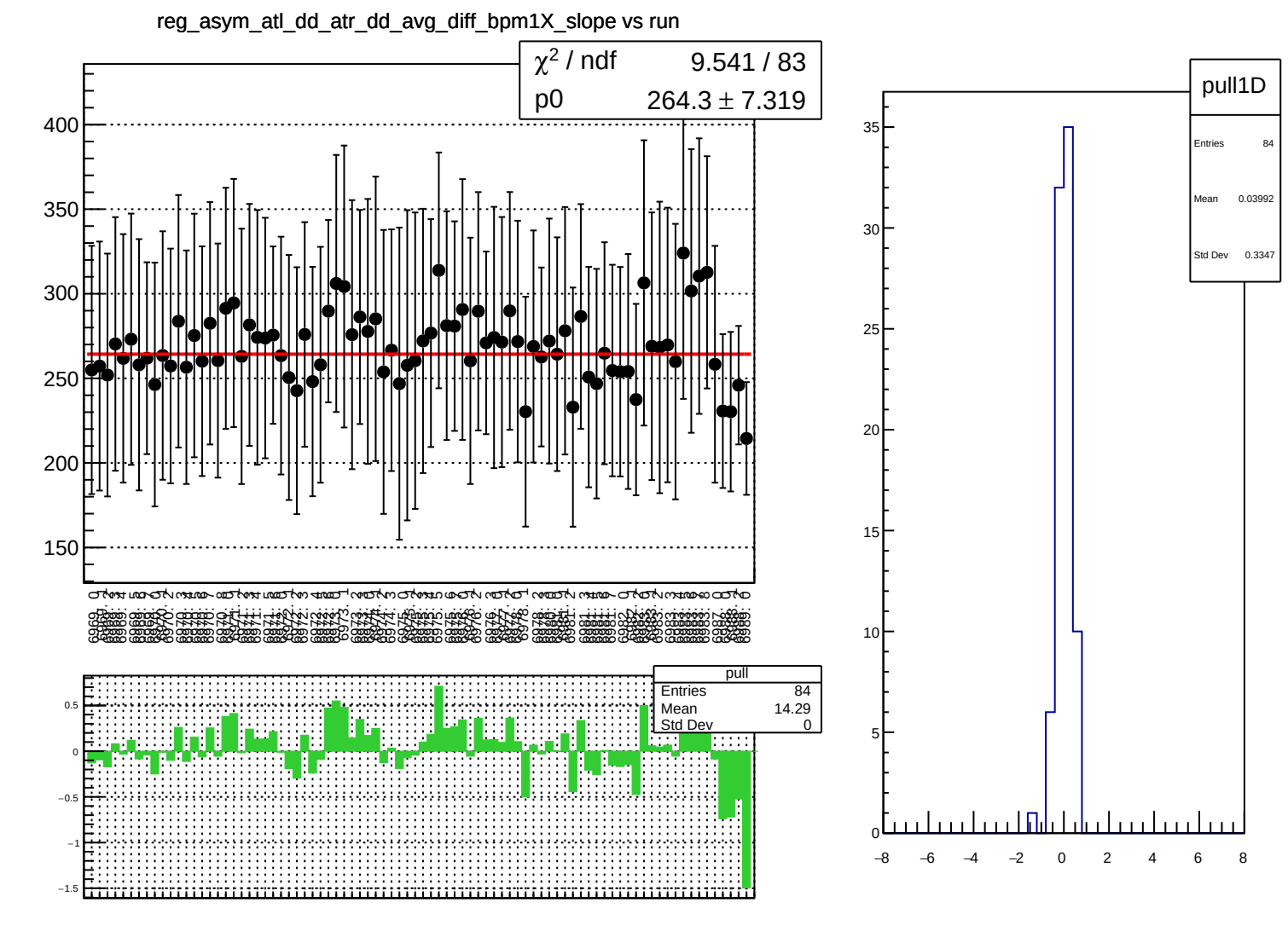

pull1D
Entries 84
Mean −0.01047
Std Dev 0.2728
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

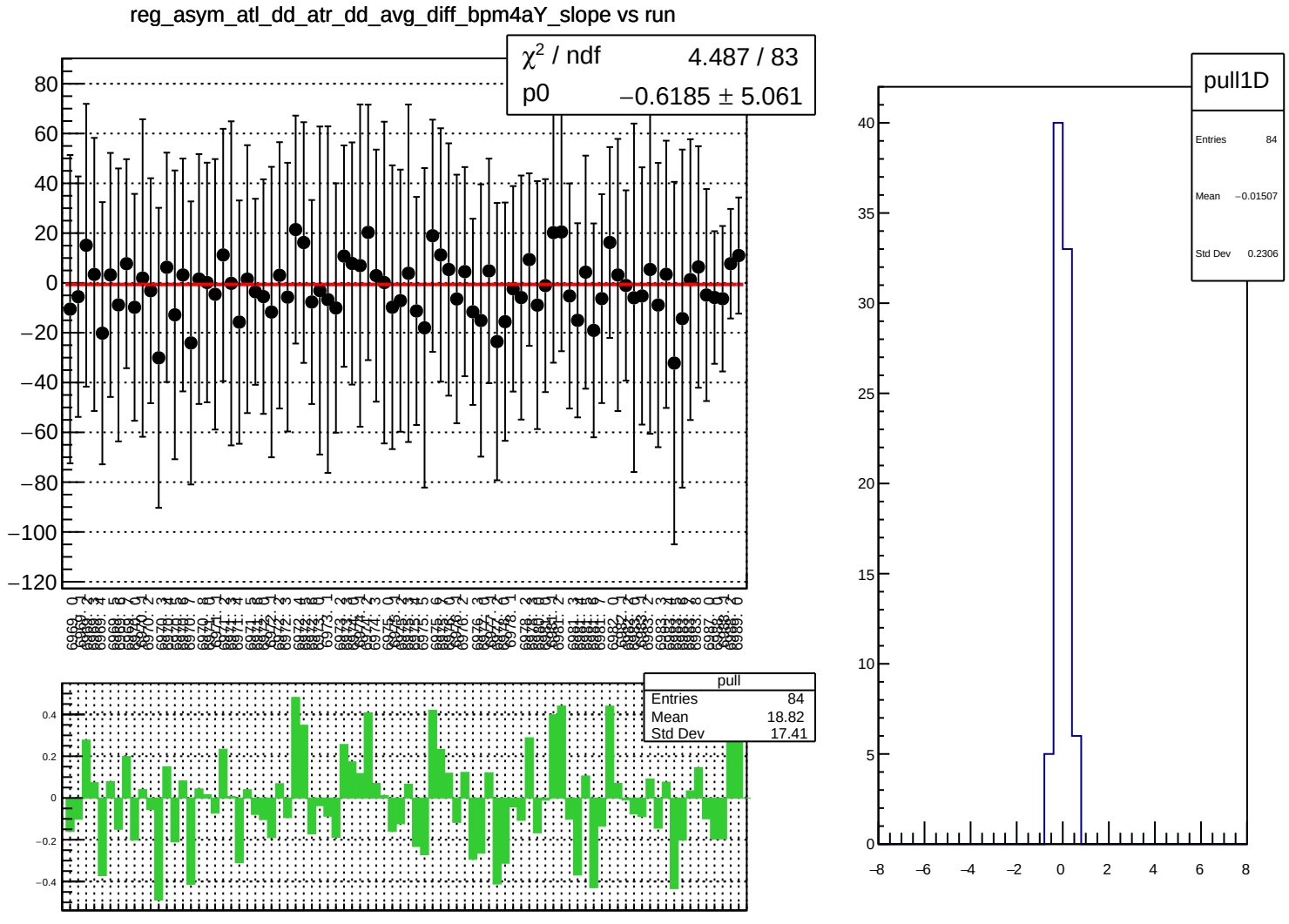

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.9 / 83
p0 −260.7 ± 7.337
−150
−200
−250
−300
−350
−400
pull
Entries 84
Mean 14.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 84
Mean −0.04484
Std Dev 0.4043
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

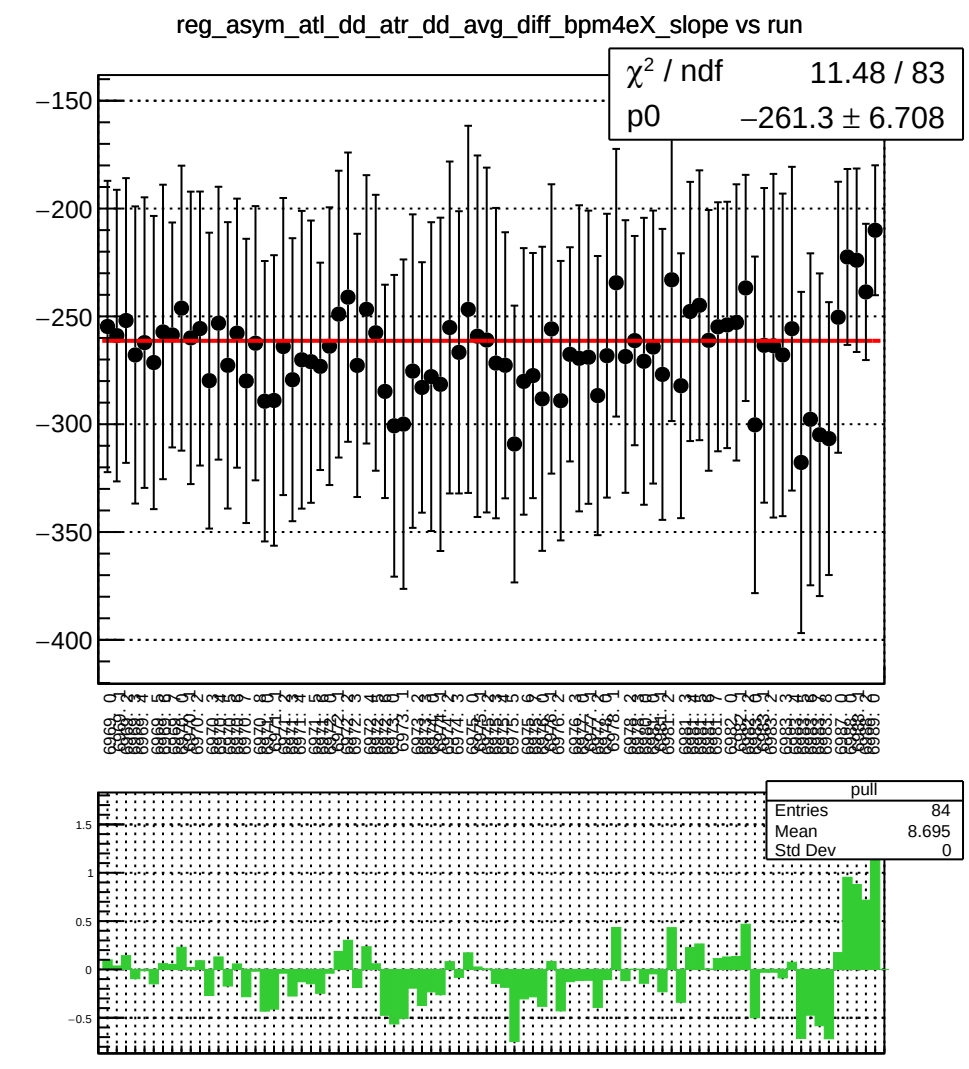

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.087 / 83
p0 −72.39 ± 6.343
pull
Entries 84
Mean 43.25
Std Dev 47.59
pull1D
Entries 84
Mean 0.009562
Std Dev 0.269

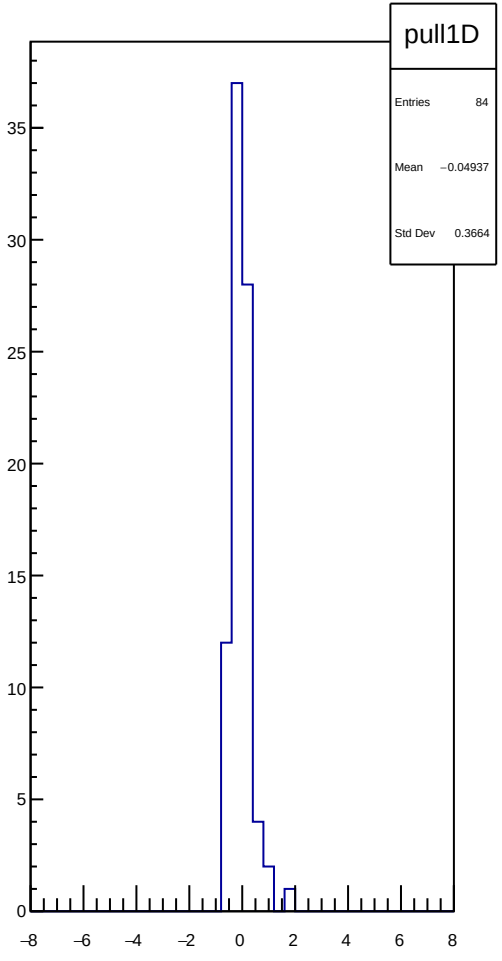

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 40.85 / 83
p0 134.2 ± 0.2416
140
138
136
134
132
130
128
pull
Entries 84
Mean −255.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

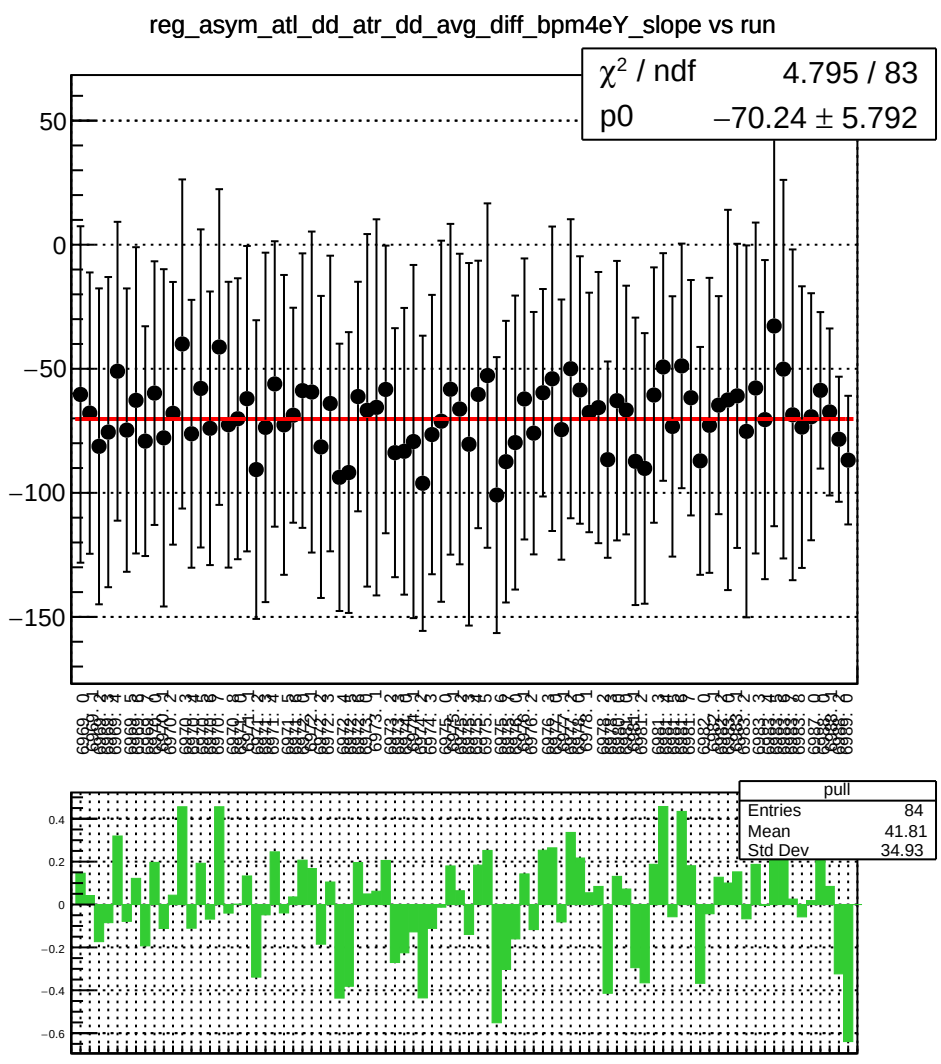

pull1D
Entries 84
Mean 0.03916
Std Dev 0.6962
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

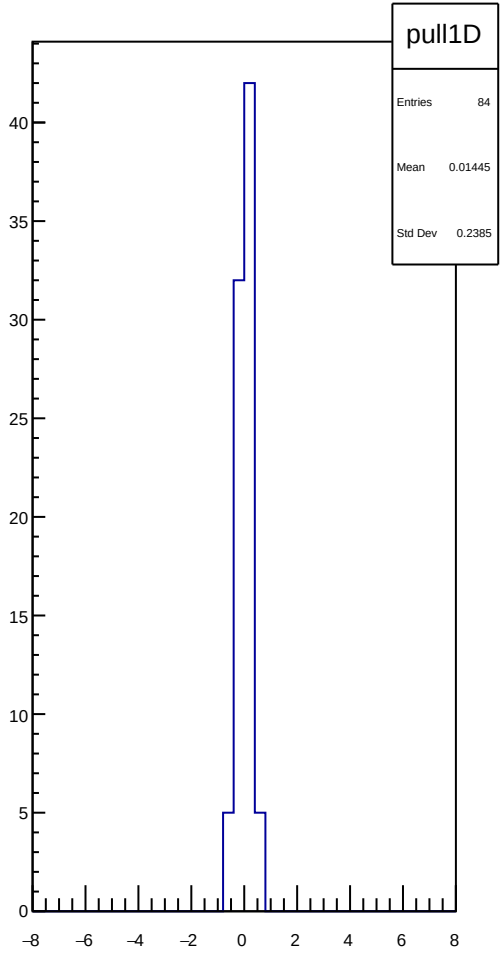

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 9.541 / 83
p0 264.3 ± 7.319
pull
Entries 84
Mean 14.29
Std Dev 0
pull1D
Entries 84
Mean 0.03992
Std Dev 0.3347

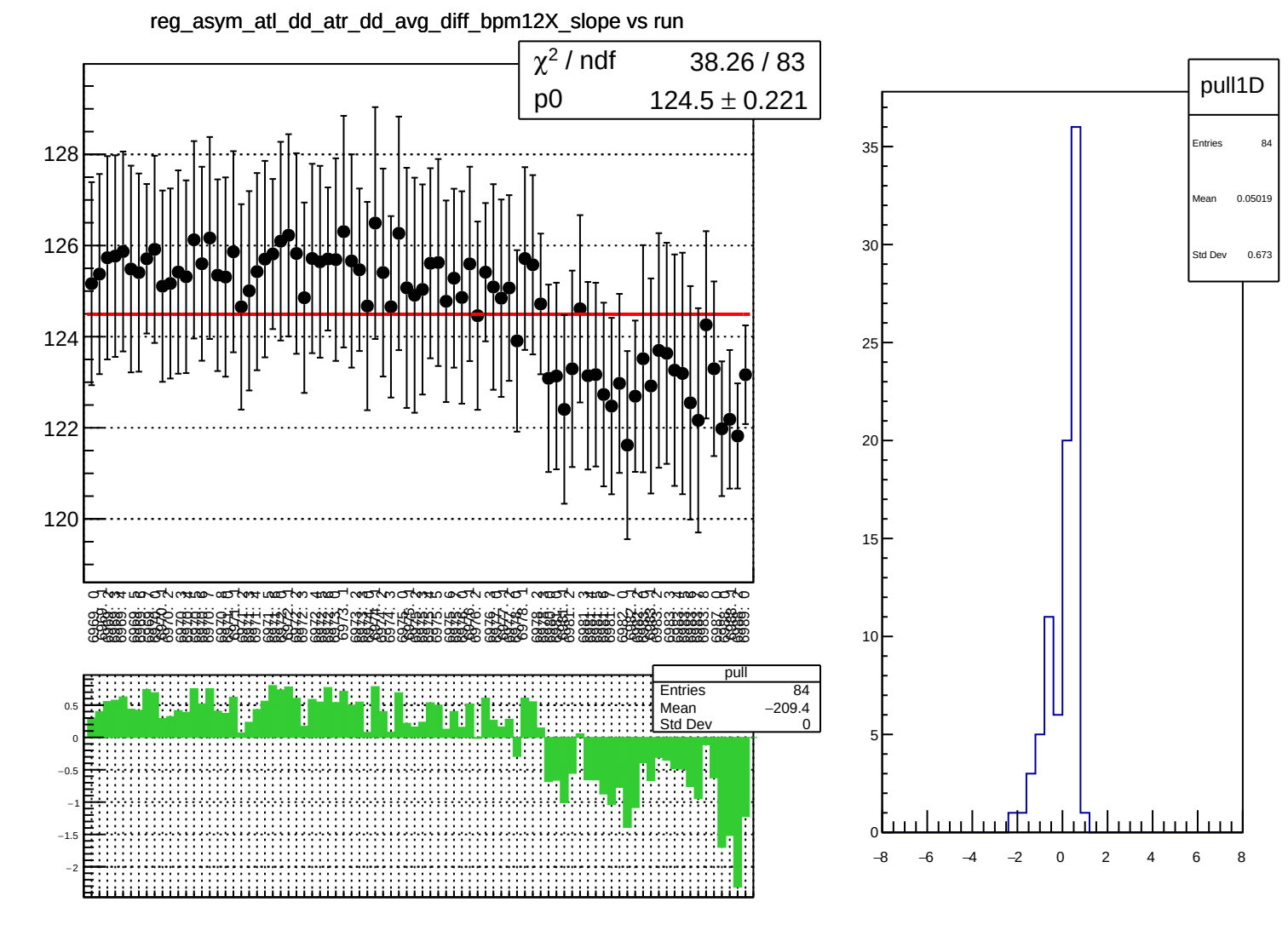

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.487 / 83
p0 −0.6185 ± 5.061
pull
Entries 84
Mean 18.82
Std Dev 17.41
pull1D
Entries 84
Mean −0.01507
Std Dev 0.2306

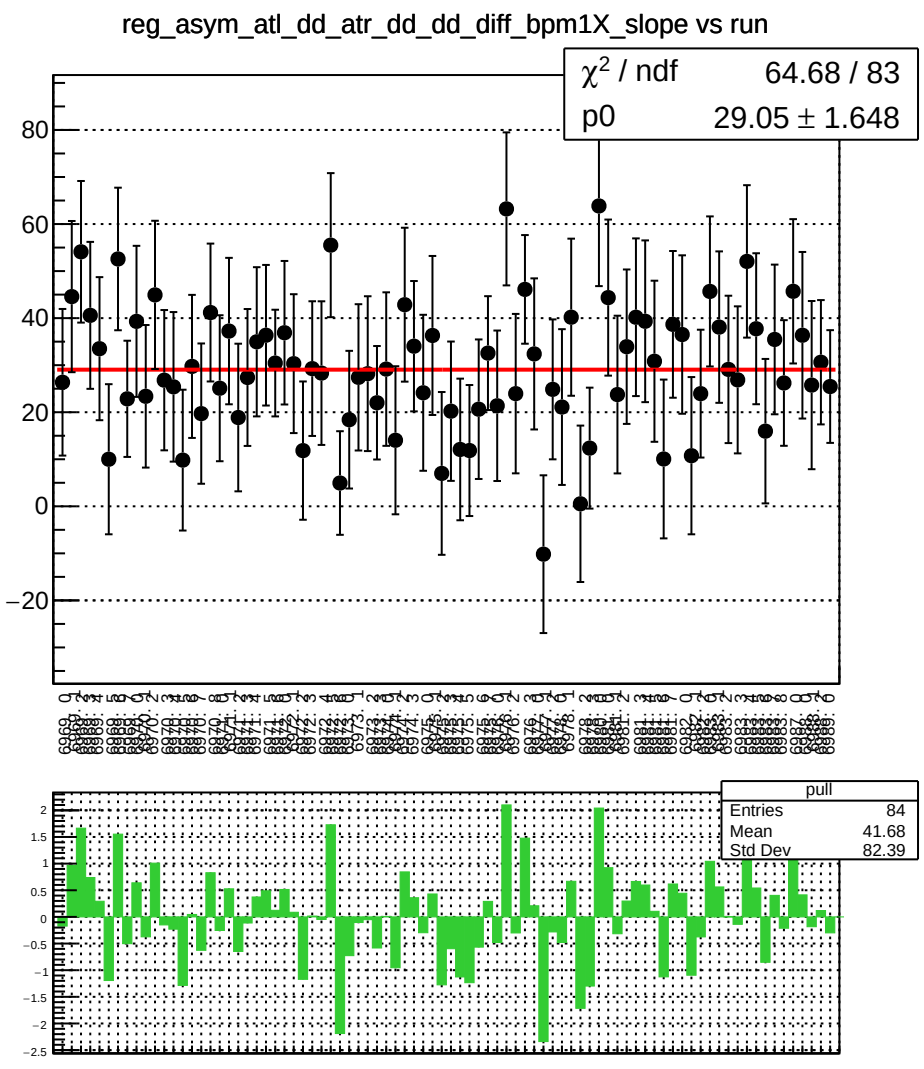

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.48 / 83
p0 −261.3 ± 6.708
−150
−200
−250
−300
−350
−400
pull
Entries 84
Mean 8.695
Std Dev 0
1.5
1
0.5
0
−0.5

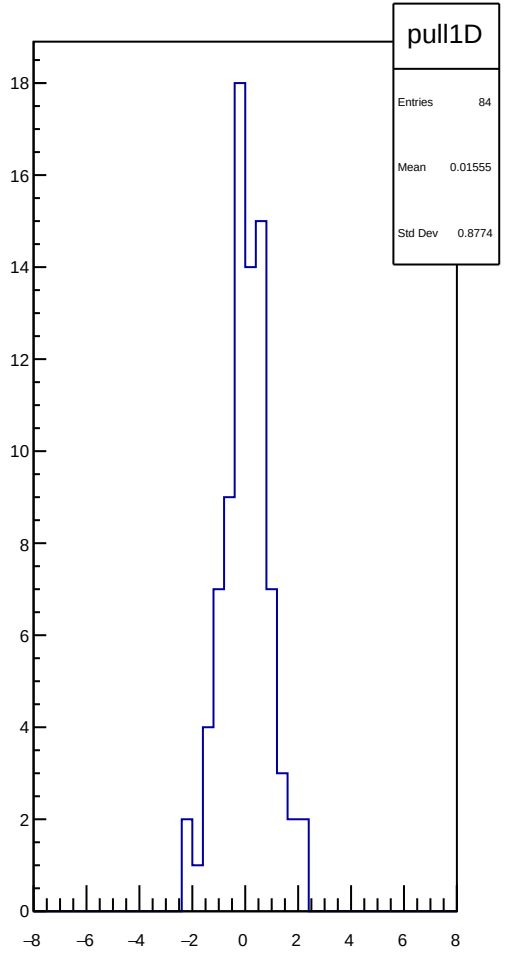

pull1D
Entries 84
Mean −0.04937
Std Dev 0.3664
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

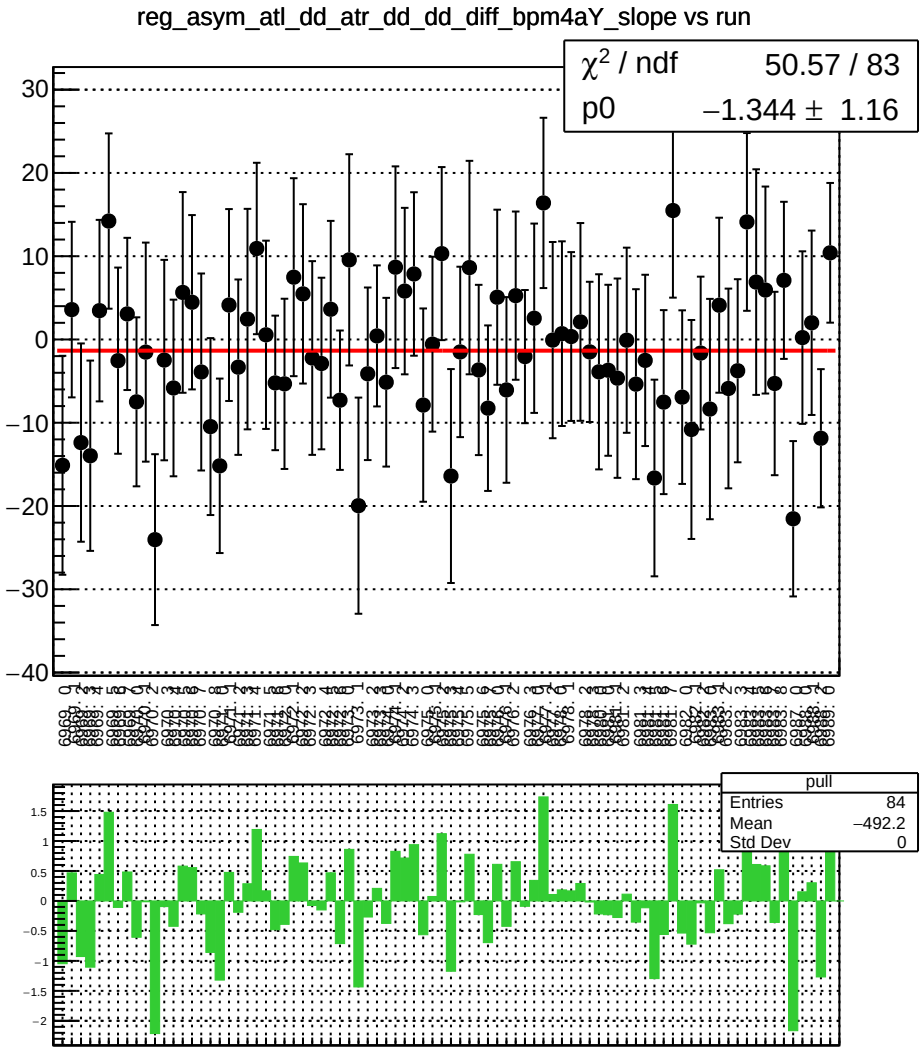

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.795 / 83
p0 −70.24 ± 5.792
50
0
−50
−100
−150
pull
Entries 84
Mean 41.81
Std Dev 34.93
0.4
0.2
0
−0.2
−0.4
−0.6

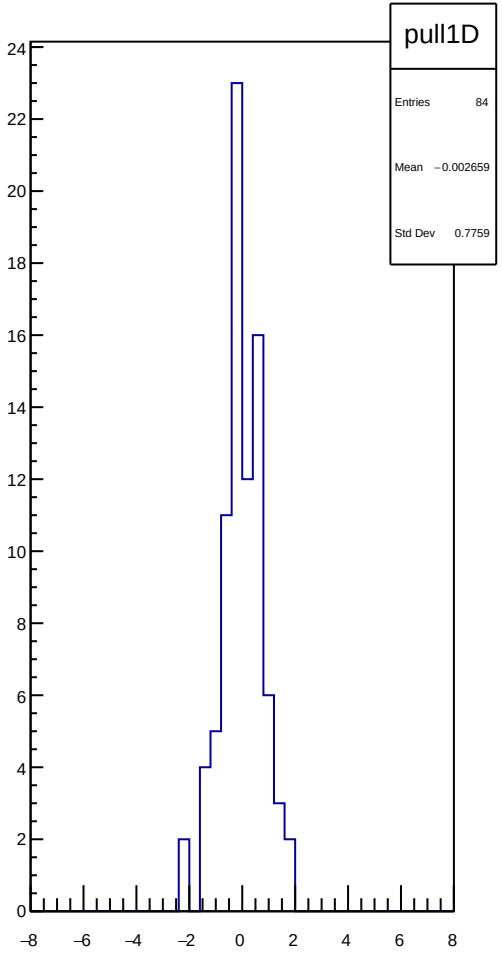

pull1D
Entries 84
Mean 0.01445
Std Dev 0.2385
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

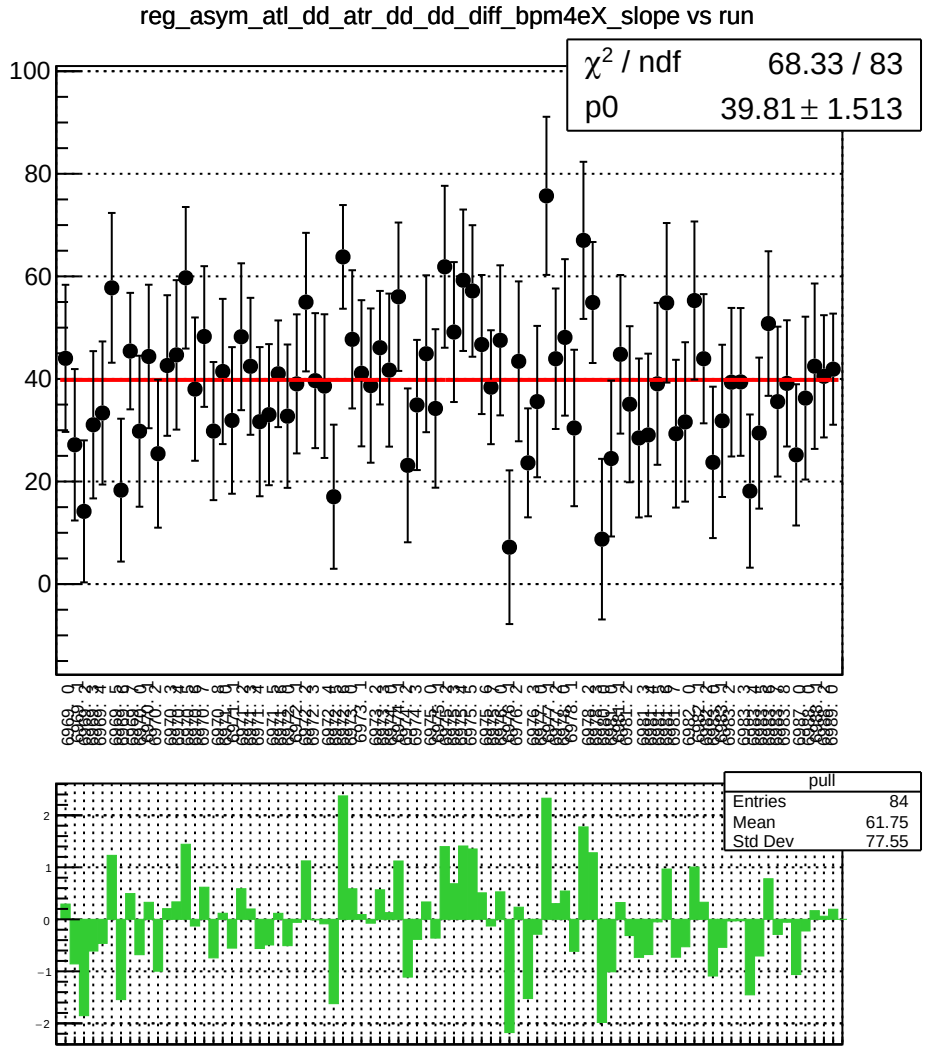

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 38.26 / 83
p0 124.5 ± 0.221
128
126
124
122
120
pull
Entries 84
Mean −209.4
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.05019
Std Dev 0.673
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

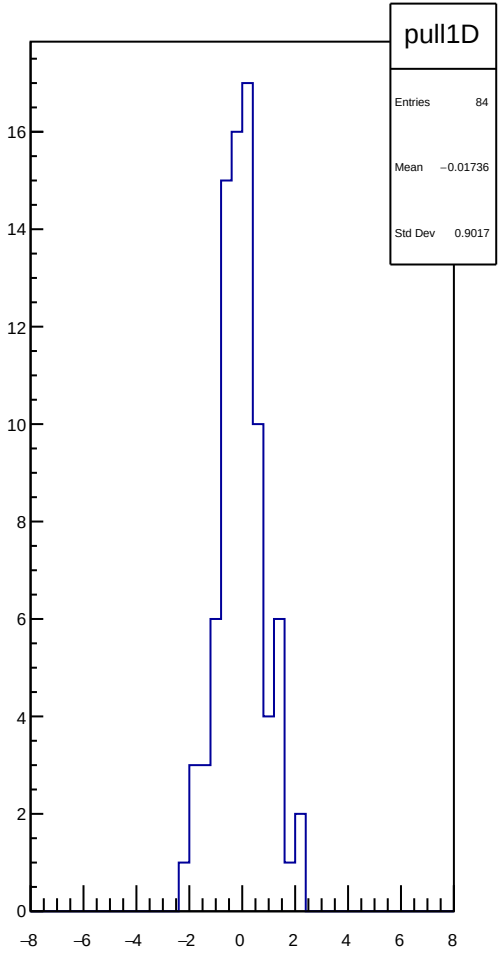

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 64.68 / 83
p0 29.05 ± 1.648
pull
Entries 84
Mean 41.68
Std Dev 82.39

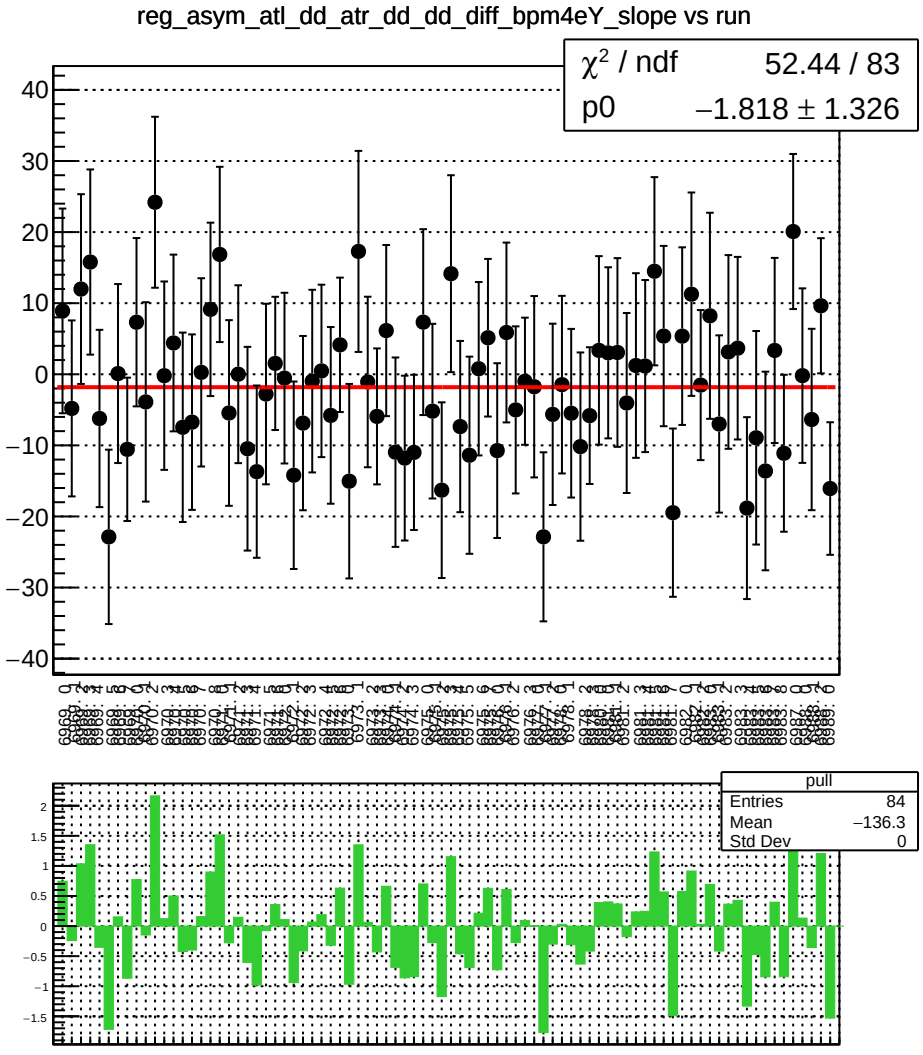

pull1D
Entries 84
Mean 0.01555
Std Dev 0.8774

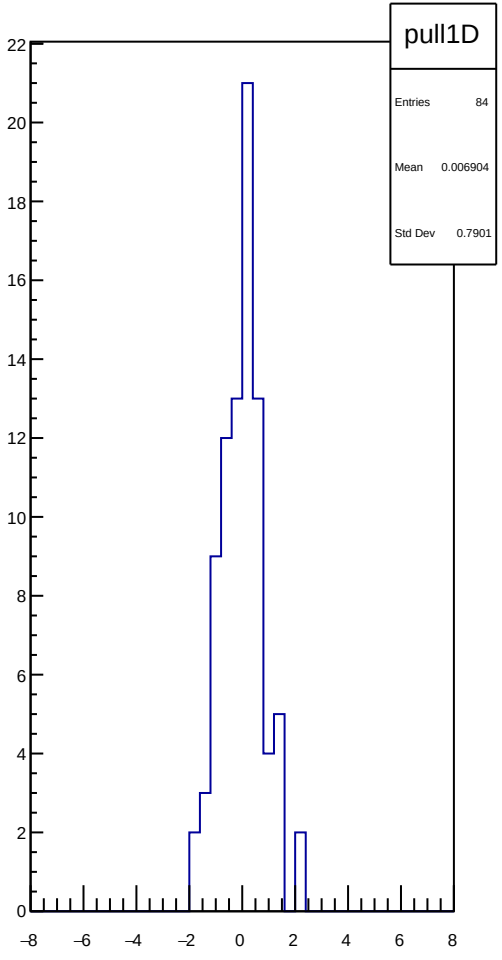

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.57 / 83
p0 −1.344 ± 1.16
pull
Entries 84
Mean −492.2
Std Dev 0

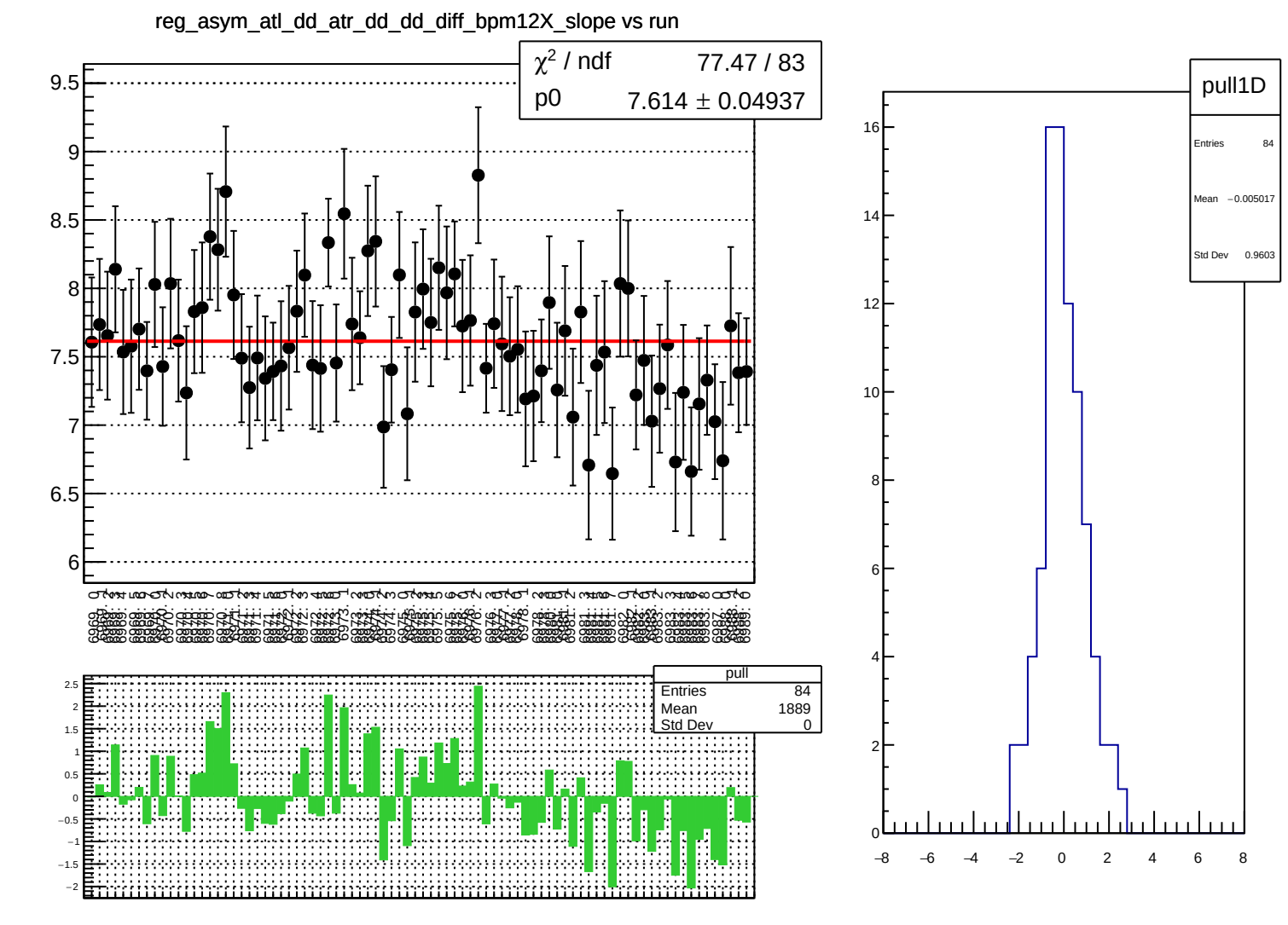

pull1D
Entries 84
Mean −0.002659
Std Dev 0.7759

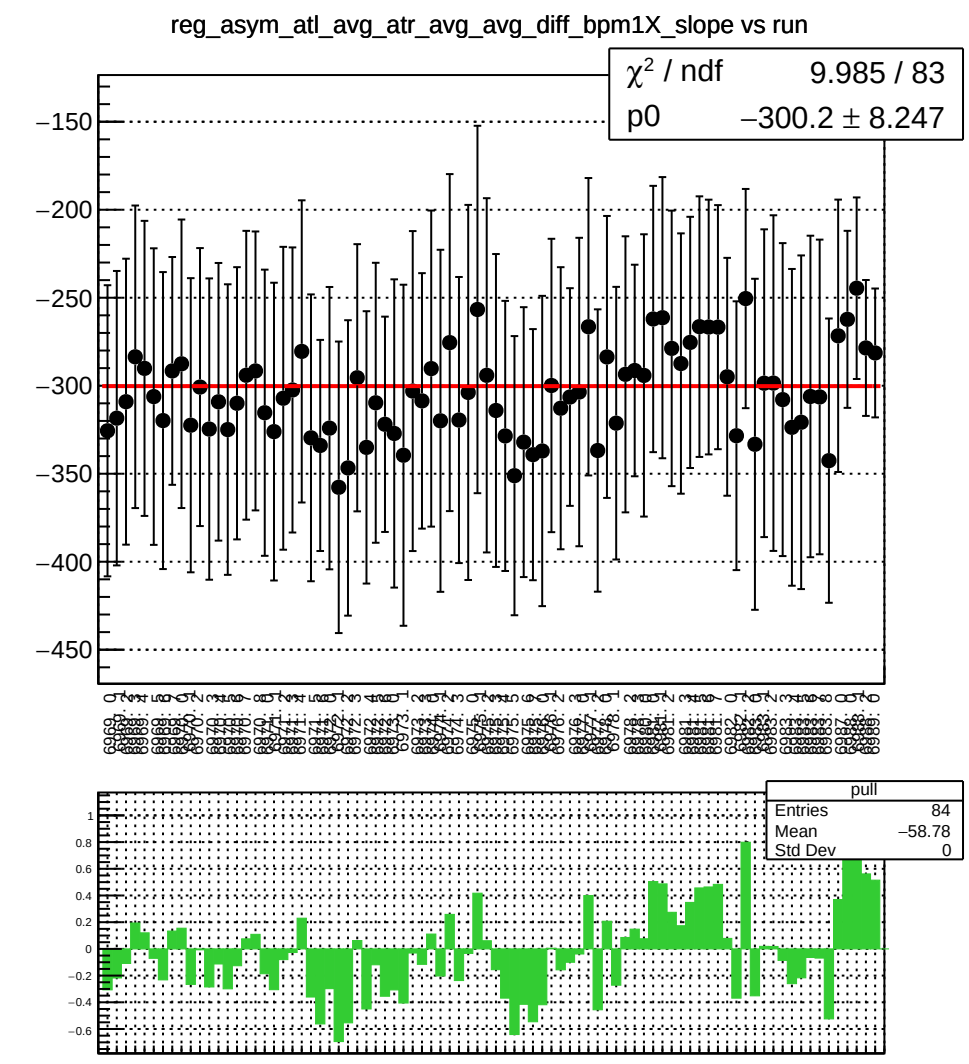

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.33 / 83
p0 39.81 ± 1.513
pull
Entries 84
Mean 61.75
Std Dev 77.55

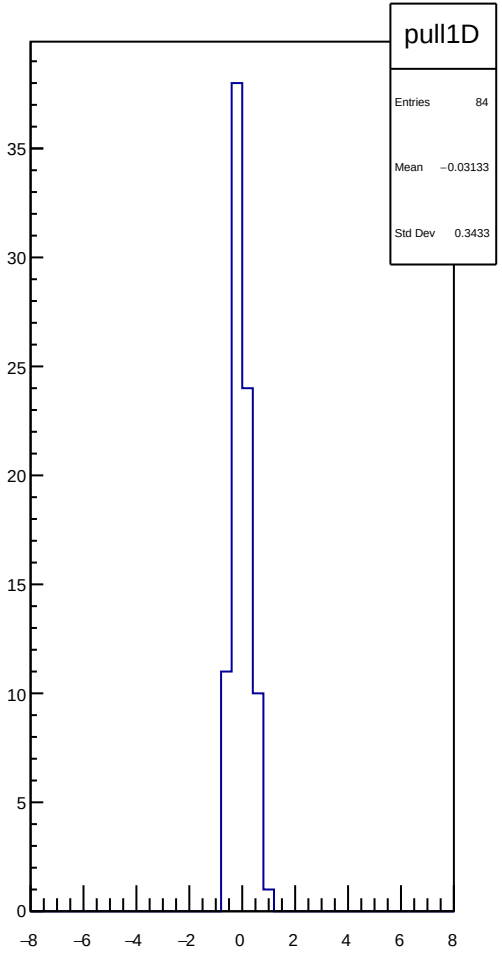

pull1D
Entries 84
Mean −0.01736
Std Dev 0.9017

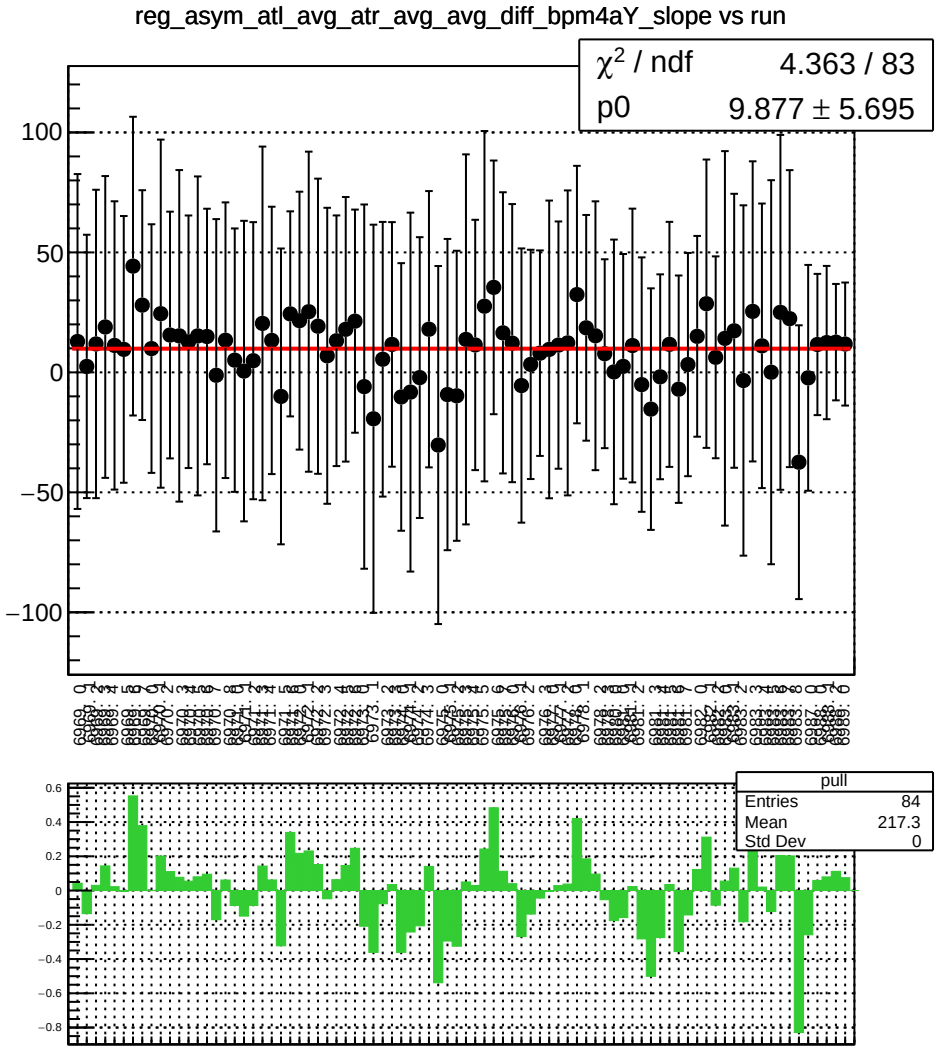

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.44 / 83
p0 −1.818 ± 1.326
pull
Entries 84
Mean −136.3
Std Dev 0

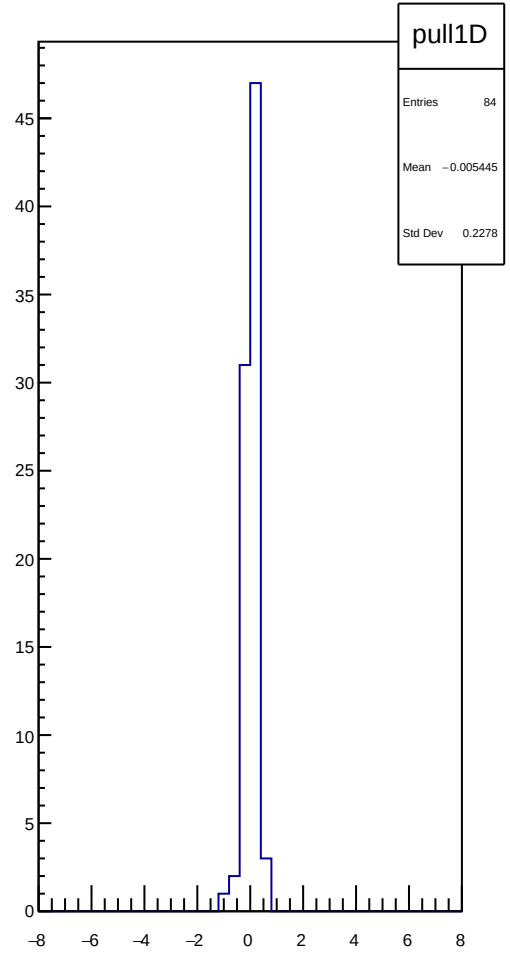

pull1D
Entries 84
Mean 0.006904
Std Dev 0.7901

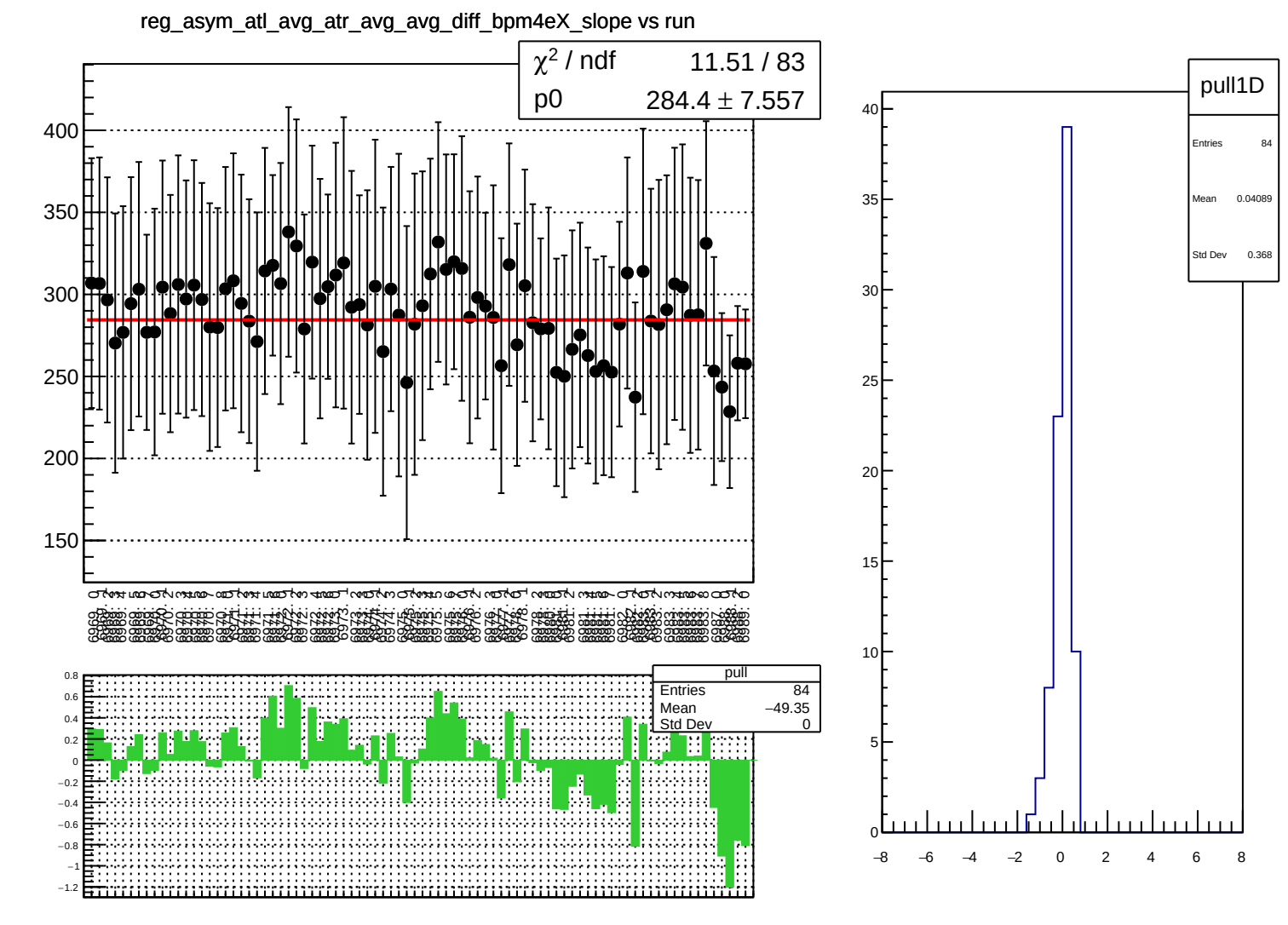

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 77.47 / 83
p0 7.614 ± 0.04937
pull
Entries 84
Mean 1889
Std Dev 0
pull1D
Entries 84
Mean −0.005017
Std Dev 0.9603

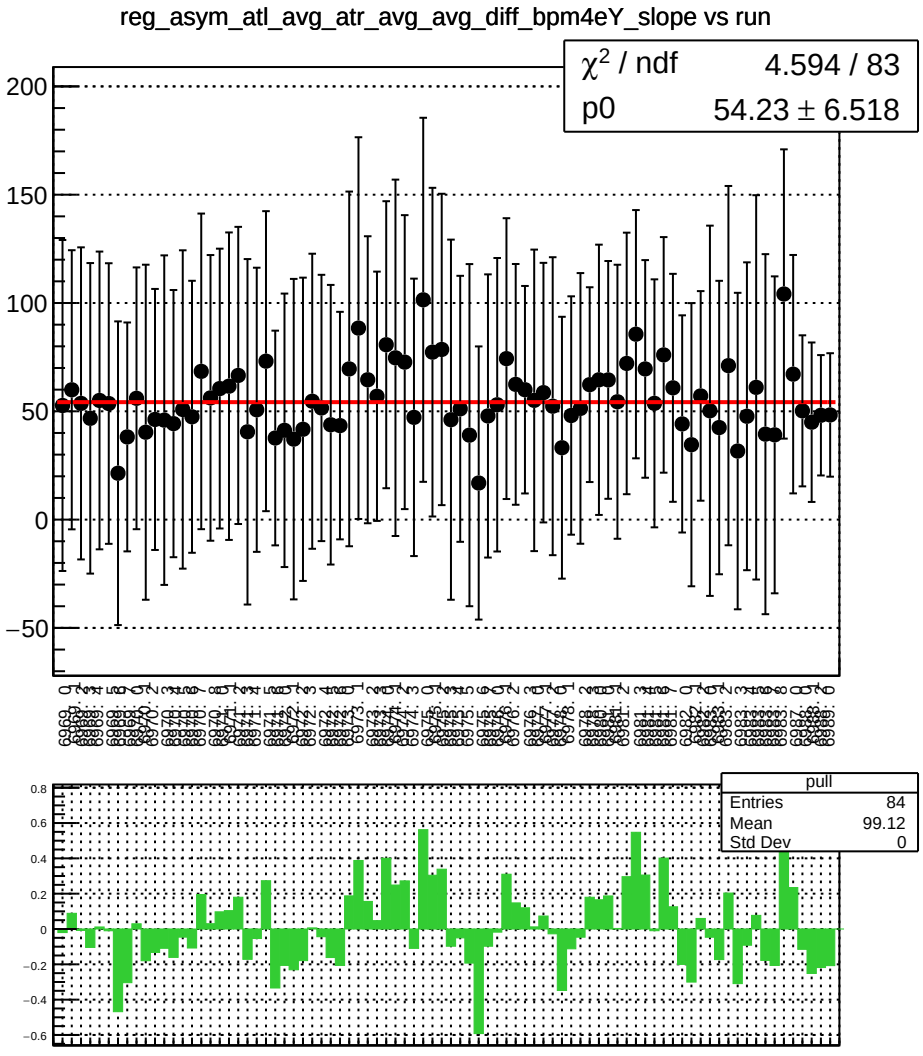

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 9.985 / 83
p0 −300.2 ± 8.247
pull
Entries 84
Mean −58.78
Std Dev 0

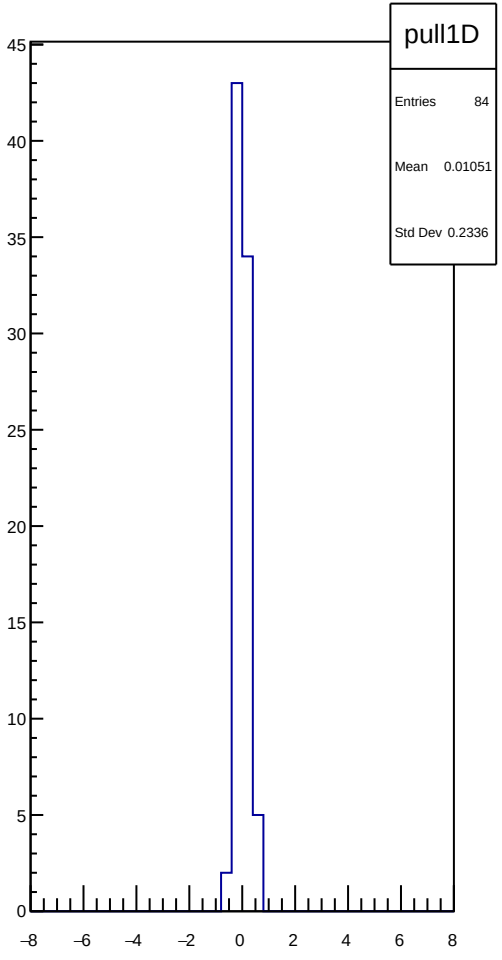

pull1D
Entries 84
Mean −0.03133
Std Dev 0.3433

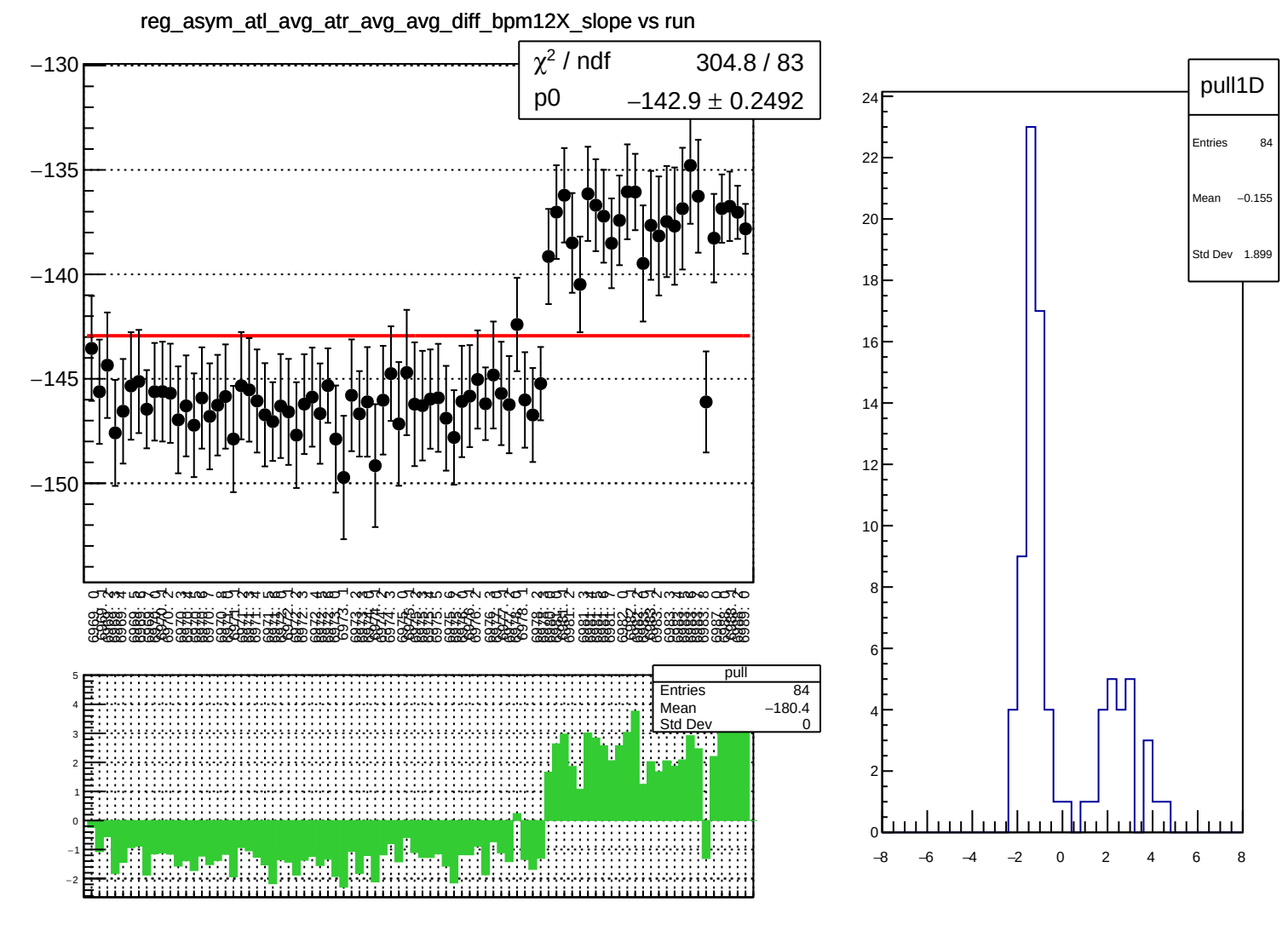

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.363 / 83
p0 9.877 ± 5.695
pull
Entries 84
Mean 217.3
Std Dev 0

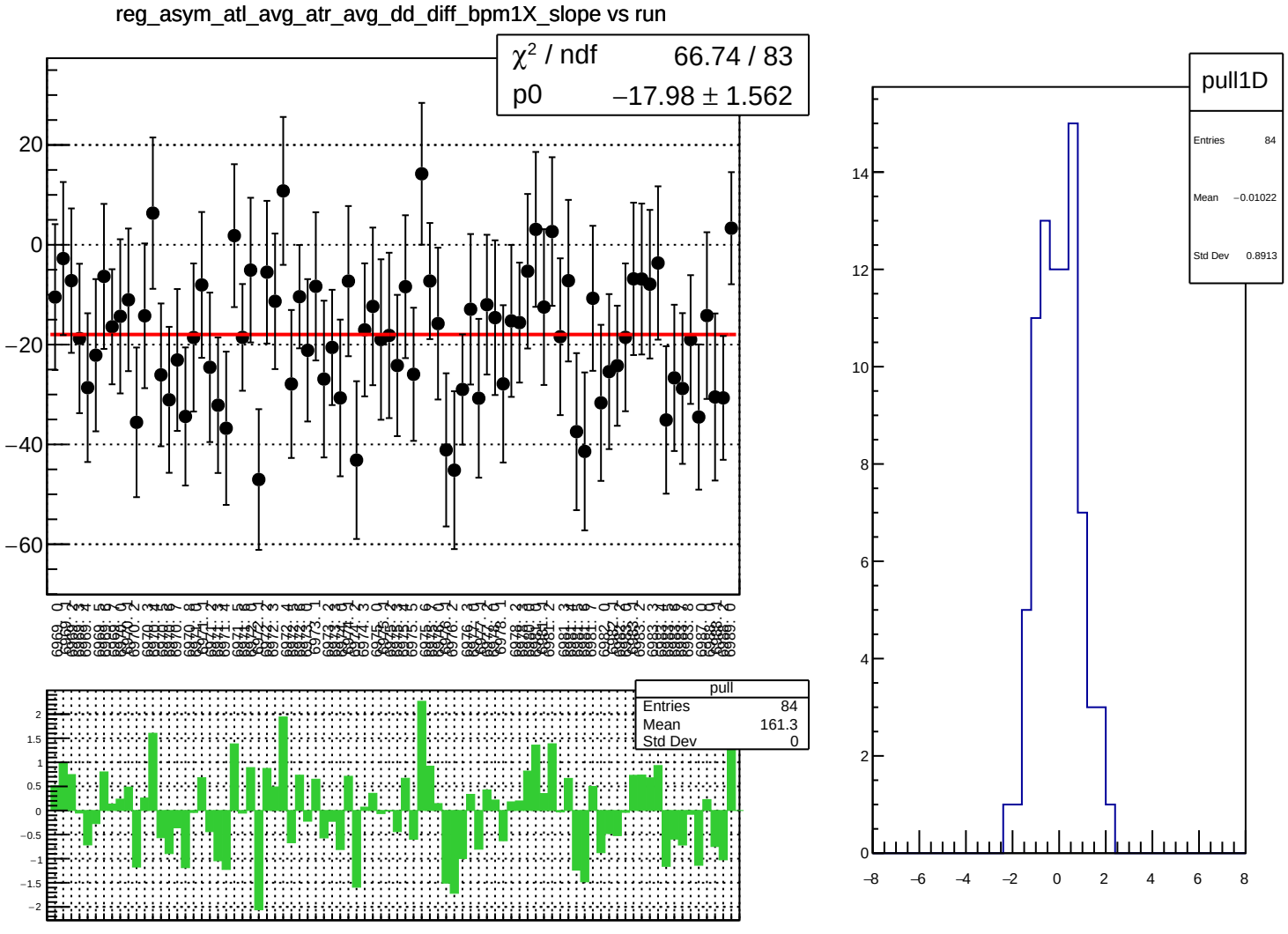

pull1D
Entries 84
Mean −0.005445
Std Dev 0.2278

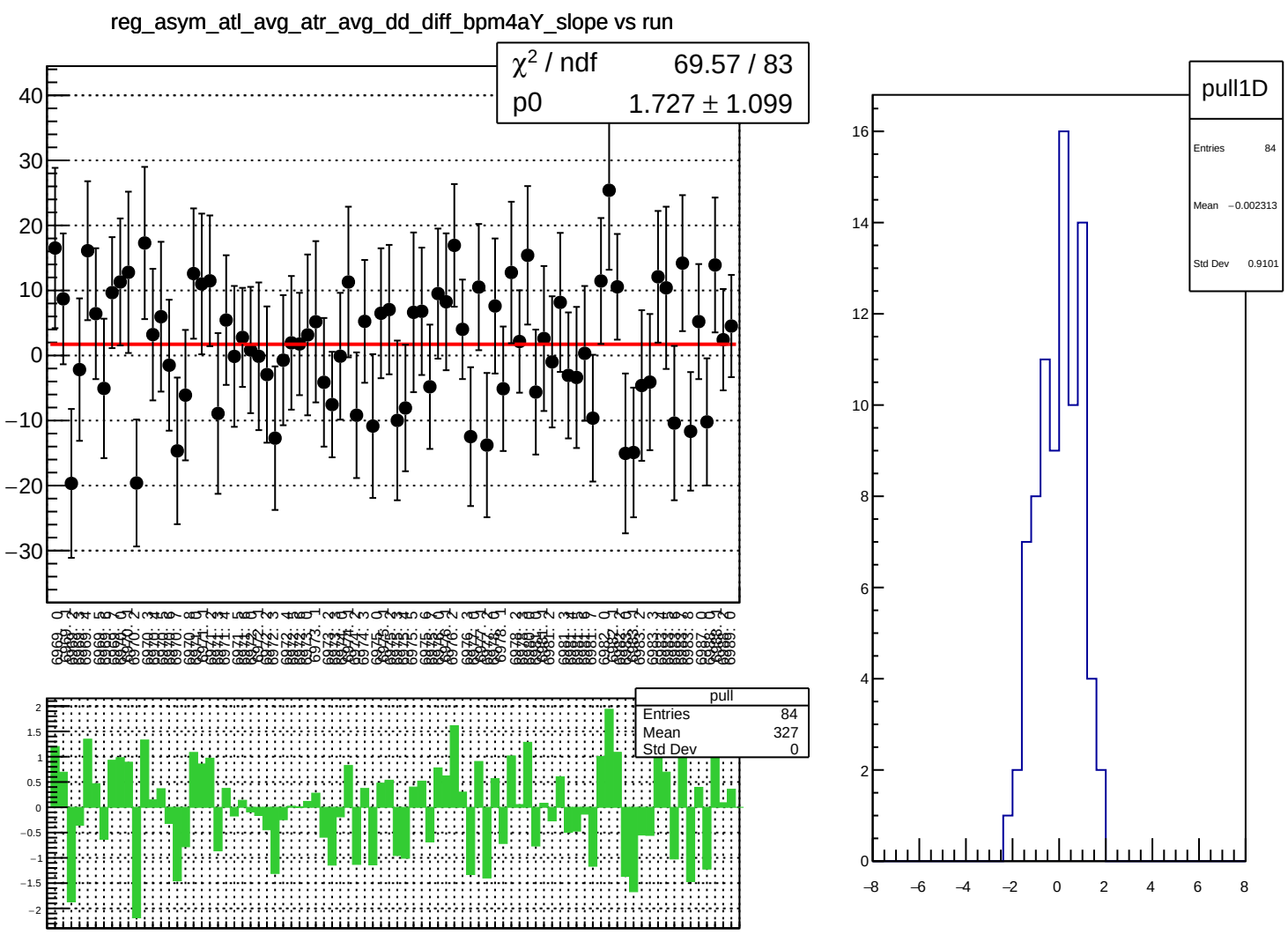

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.51 / 83
p0 284.4 ± 7.557
pull
Entries 84
Mean −49.35
Std Dev 0
pull1D
Entries 84
Mean 0.04089
Std Dev 0.368

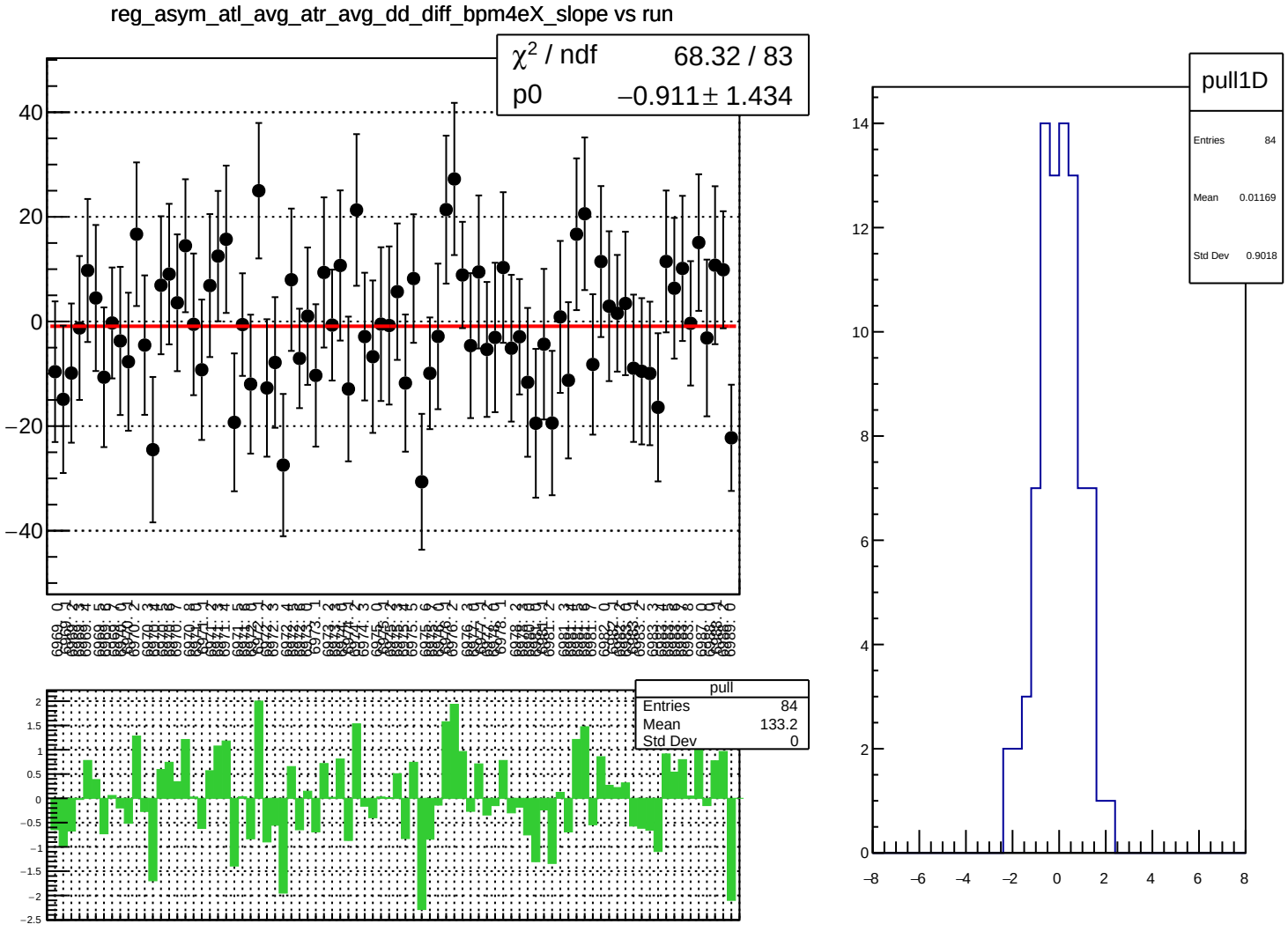

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.594 / 83
p0 54.23 ± 6.518
pull
Entries 84
Mean 99.12
Std Dev 0

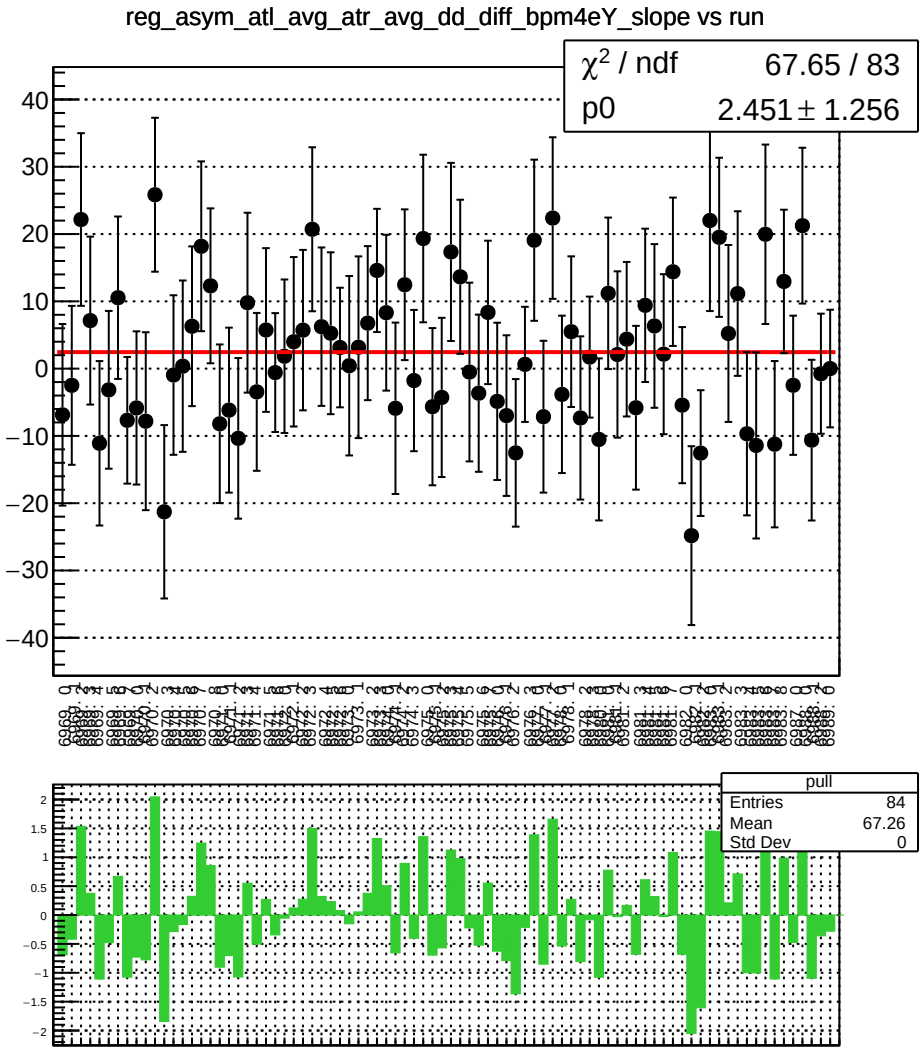

pull1D
Entries 84
Mean 0.01051
Std Dev 0.2336

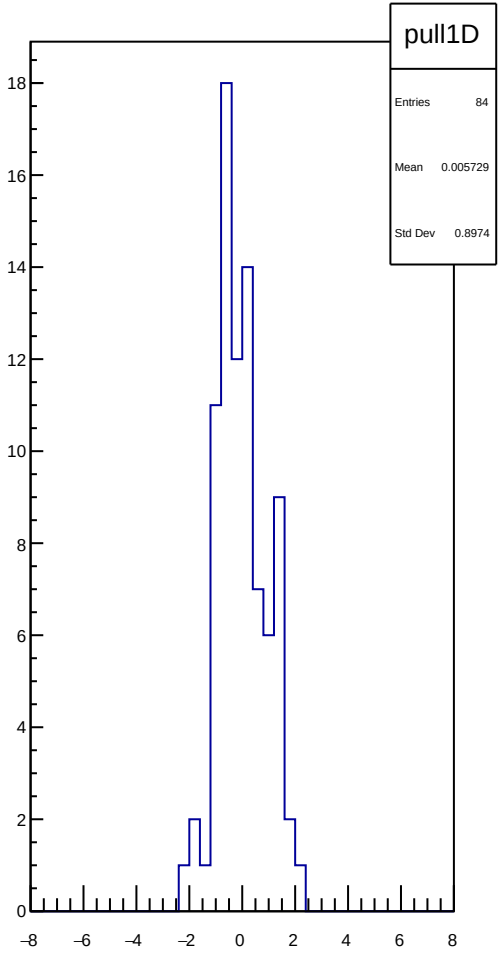

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 304.8 / 83
p0 −142.9 ± 0.2492
pull
Entries 84
Mean −180.4
Std Dev 0
pull1D
Entries 84
Mean −0.155
Std Dev 1.899

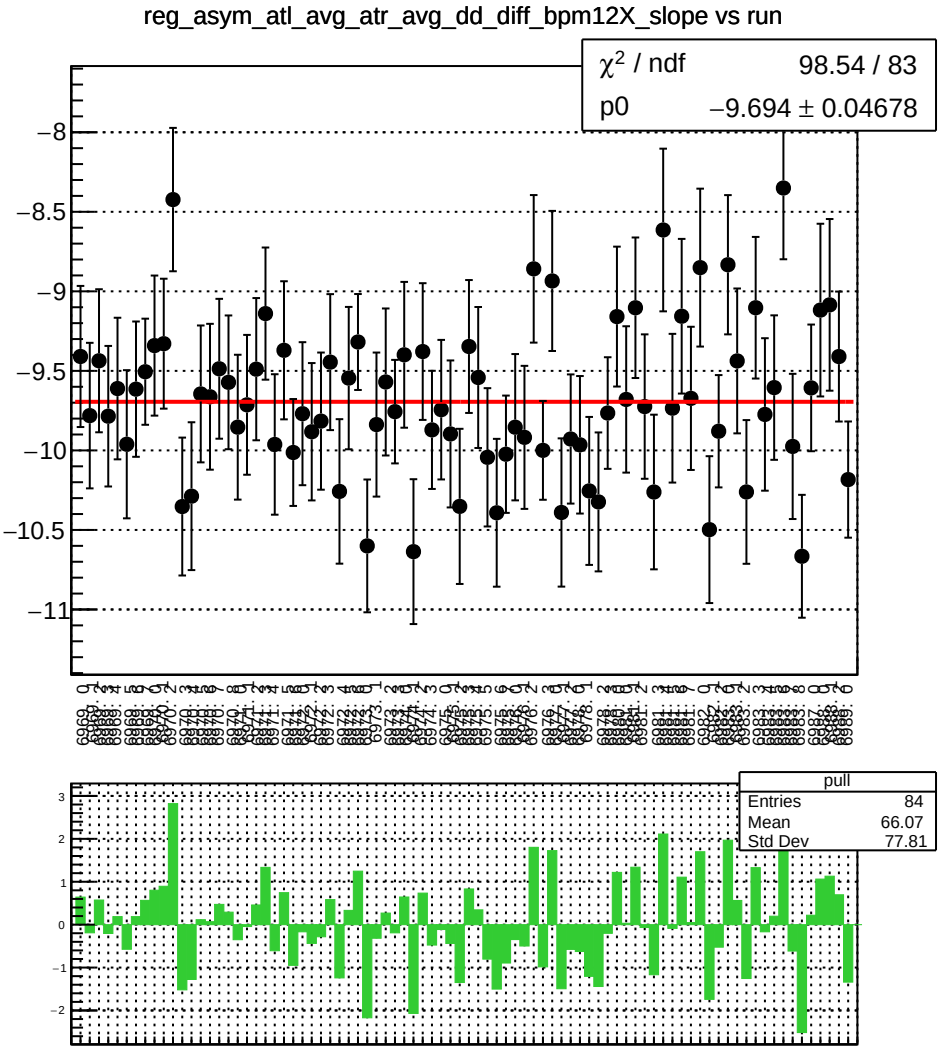

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 66.74 / 83
p0 −17.98 ± 1.562
pull
Entries 84
Mean 161.3
Std Dev 0
pull1D
Entries 84
Mean −0.01022
Std Dev 0.8913

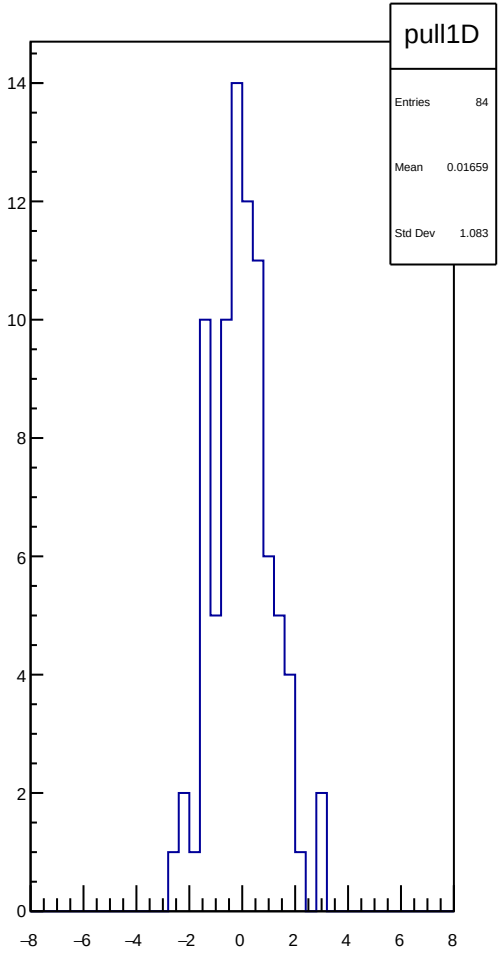

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.57 / 83
p0 1.727 ± 1.099
pull
Entries 84
Mean 327
Std Dev 0
pull1D
Entries 84
Mean −0.002313
Std Dev 0.9101

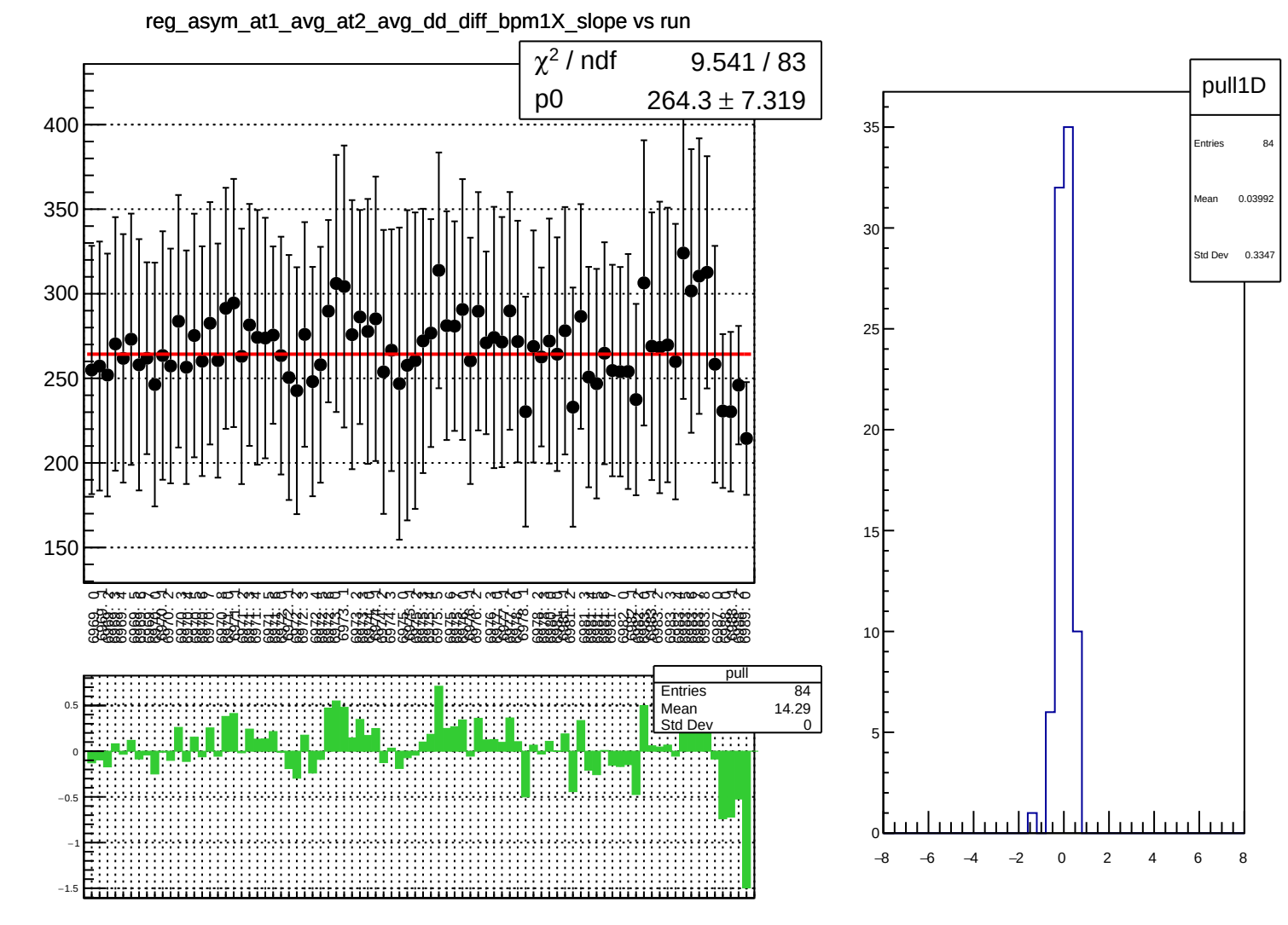

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.32 / 83
p0 −0.911± 1.434
pull
Entries 84
Mean 133.2
Std Dev 0
pull1D
Entries 84
Mean 0.01169
Std Dev 0.9018

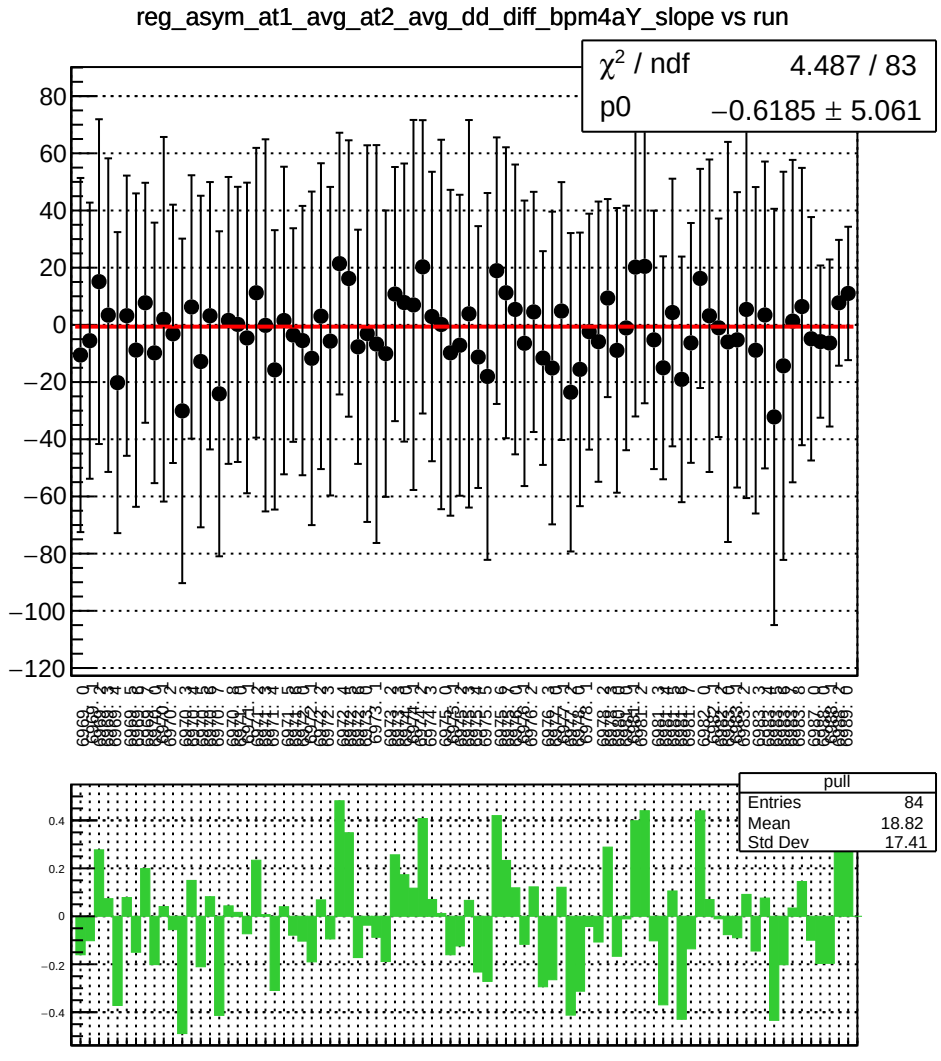

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.65 / 83
p0 2.451 ± 1.256
pull
Entries 84
Mean 67.26
Std Dev 0

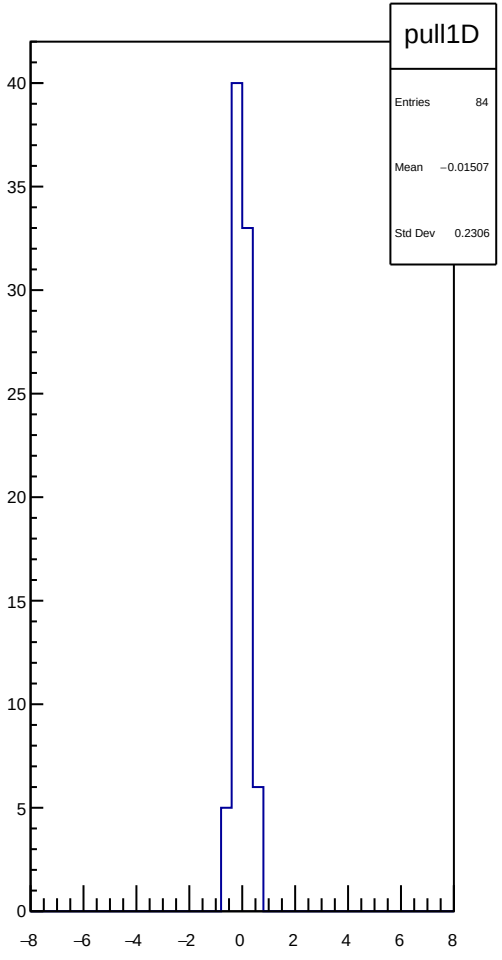

pull1D
Entries 84
Mean 0.005729
Std Dev 0.8974

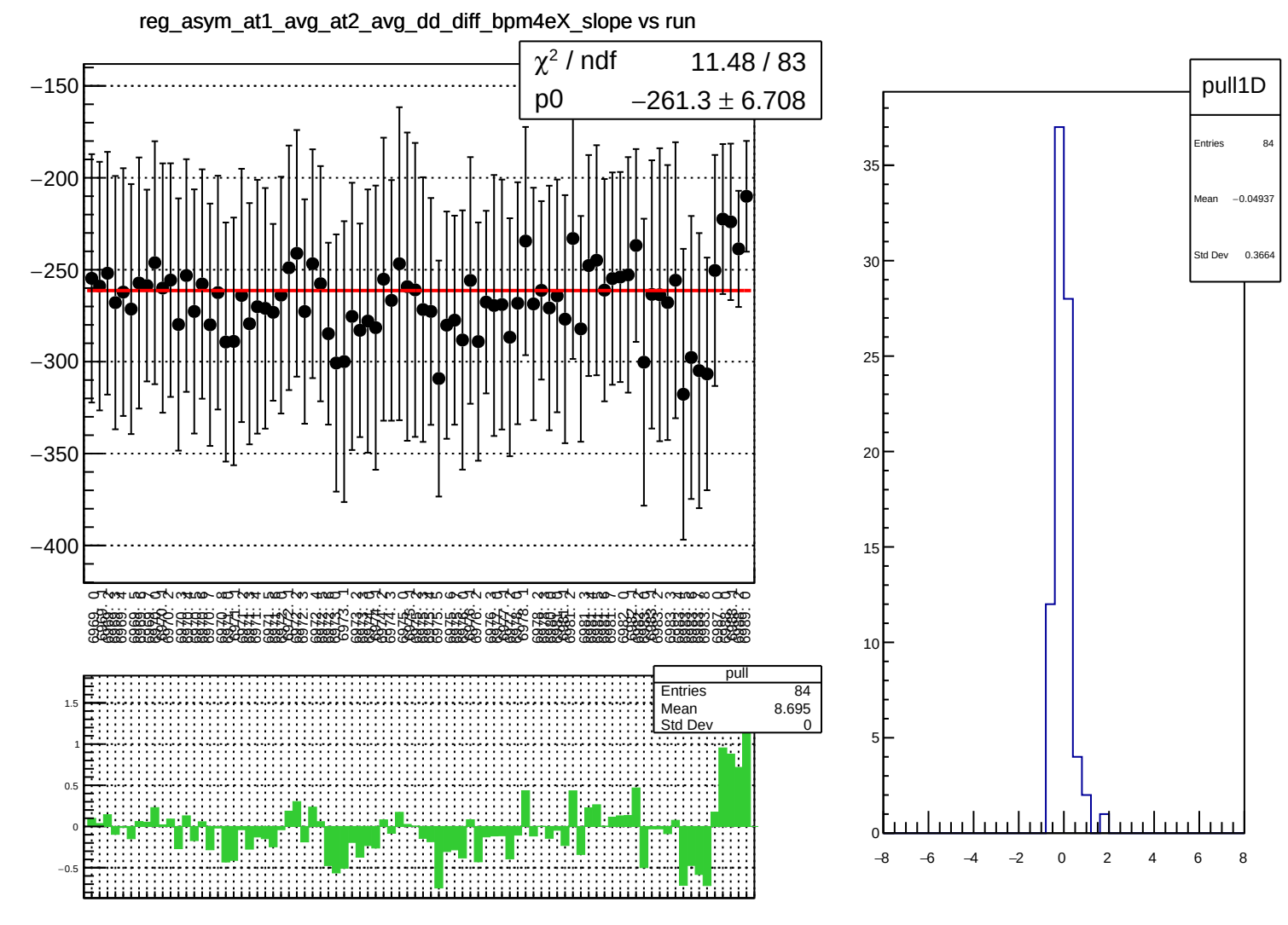

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 98.54 / 83
p0 −9.694 ± 0.04678
pull
Entries 84
Mean 66.07
Std Dev 77.81

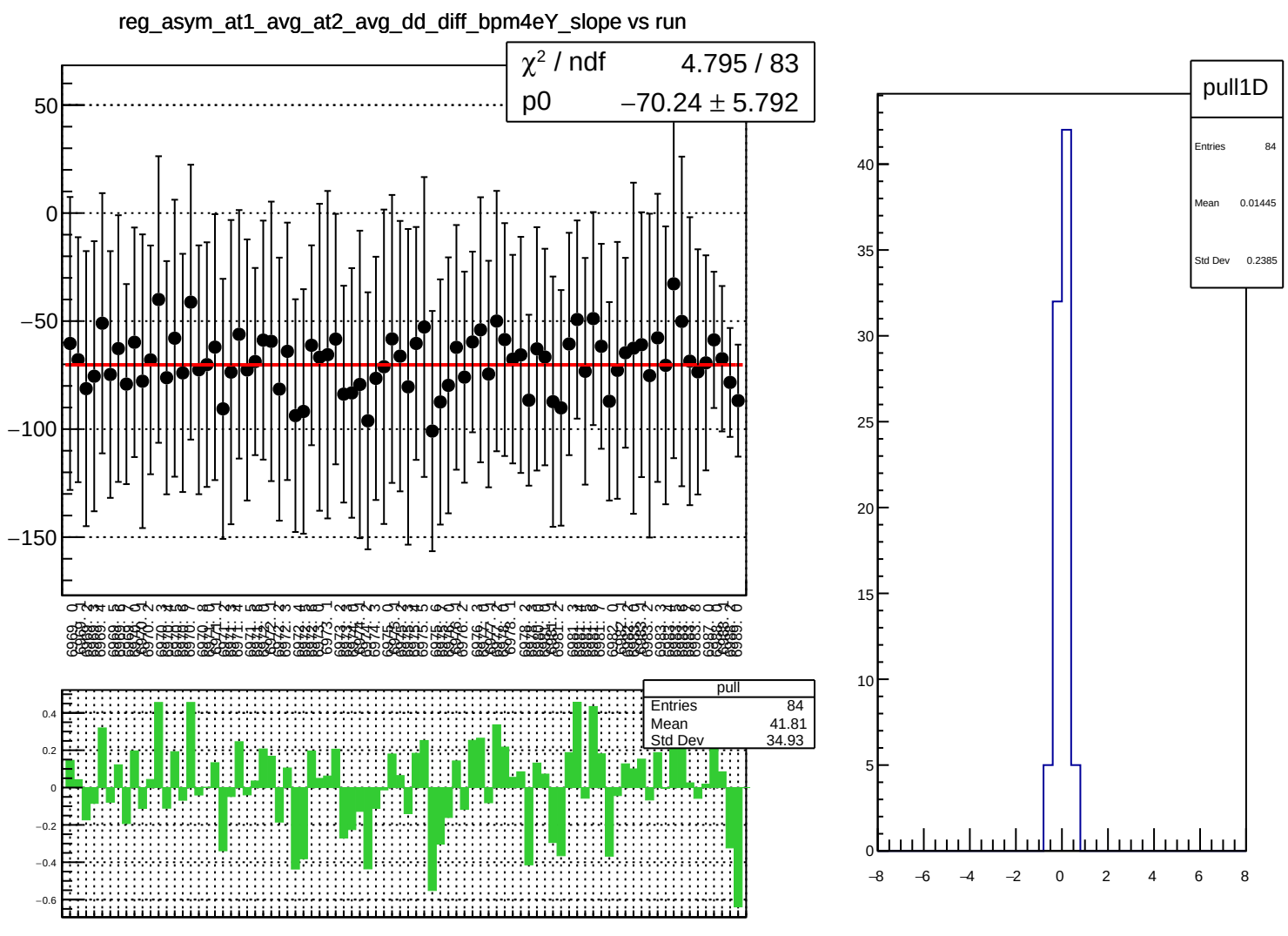

pull1D
Entries 84
Mean 0.01659
Std Dev 1.083

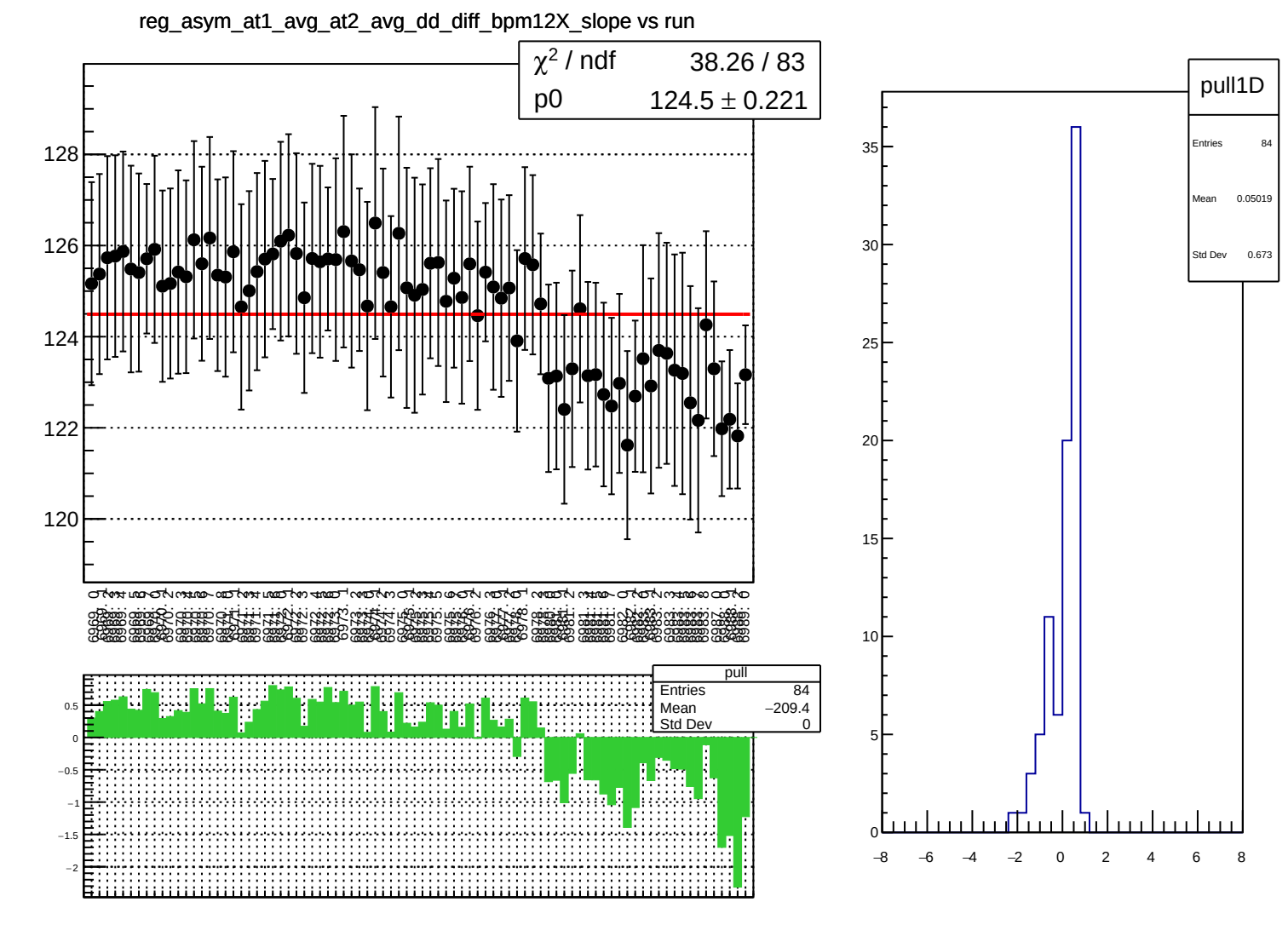

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 9.541 / 83
p0 264.3 ± 7.319
400
350
300
250
200
150
pull
Entries 84
Mean 14.29
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.03992
Std Dev 0.3347
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

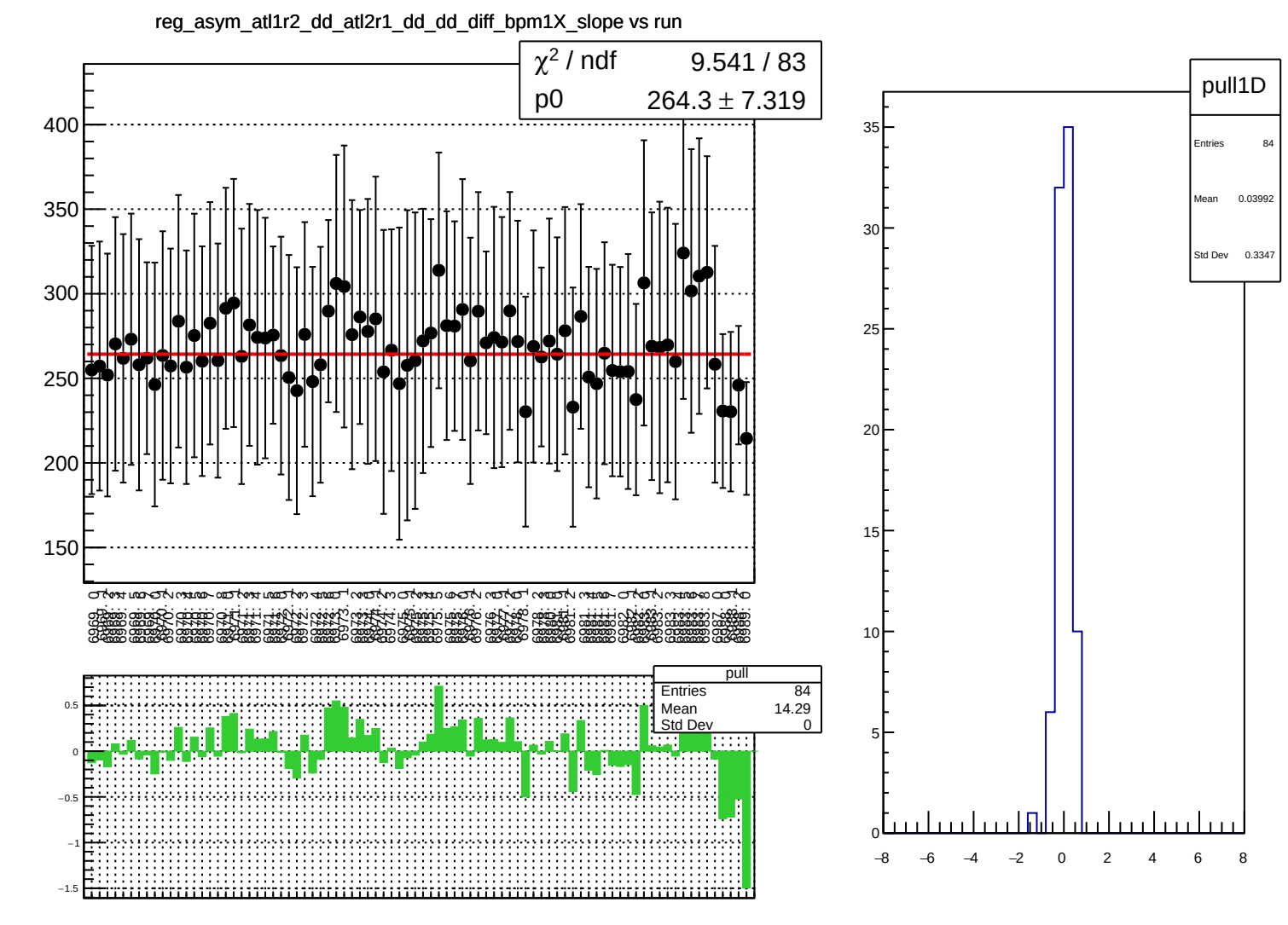

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.487 / 83
p0 −0.6185 ± 5.061
pull
Entries 84
Mean 18.82
Std Dev 17.41

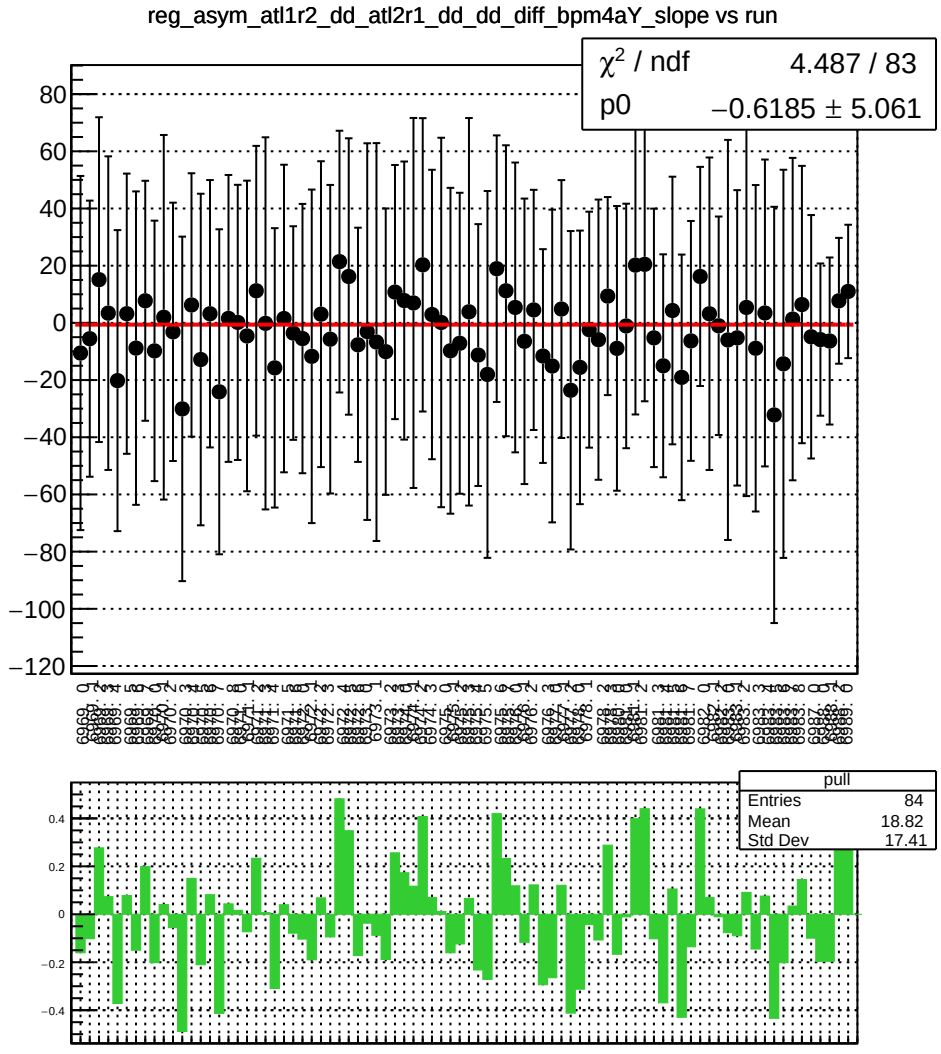

pull1D
Entries 84
Mean −0.01507
Std Dev 0.2306

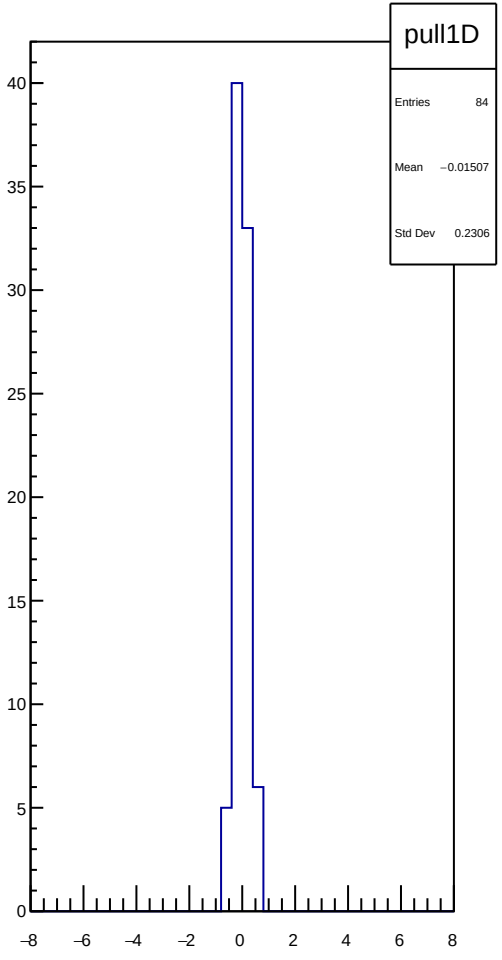

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.48 / 83
p0 −261.3 ± 6.708
pull
Entries 84
Mean 8.695
Std Dev 0
pull1D
Entries 84
Mean −0.04937
Std Dev 0.3664

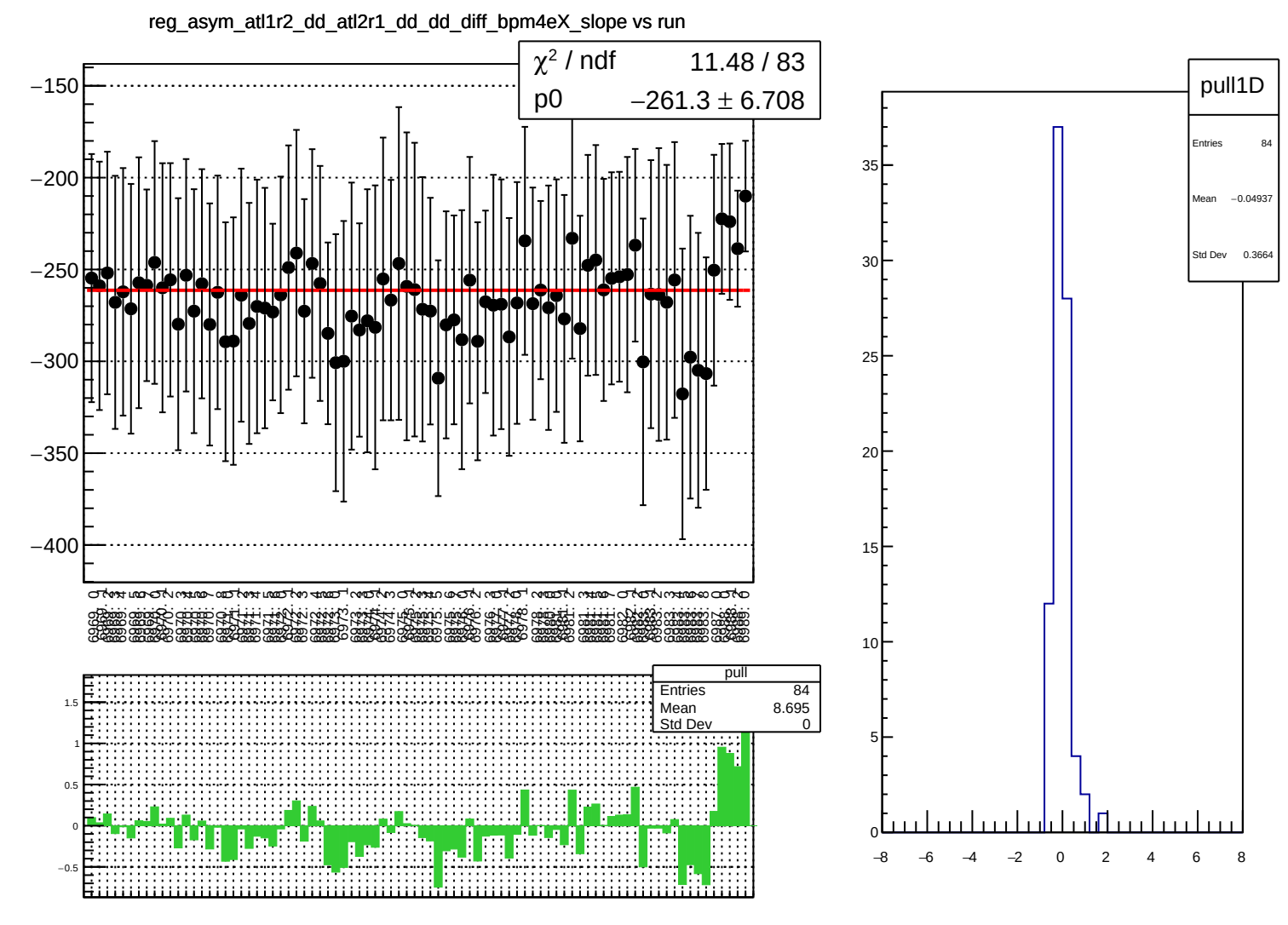

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.795 / 83
p0 −70.24 ± 5.792
pull
Entries 84
Mean 41.81
Std Dev 34.93
pull1D
Entries 84
Mean 0.01445
Std Dev 0.2385

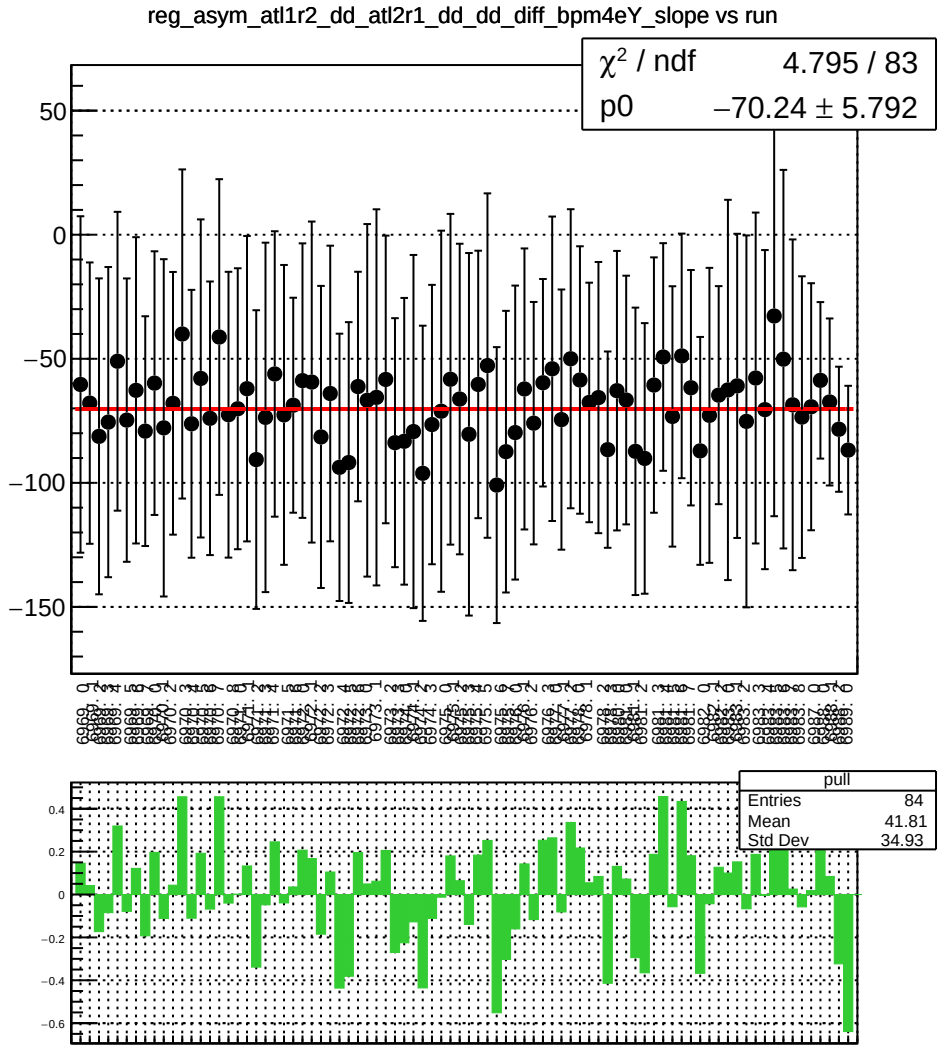

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 38.26 / 83
p0 124.5 ± 0.221
128
126
124
122
120
pull
Entries 84
Mean −209.4
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.05019
Std Dev 0.673
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

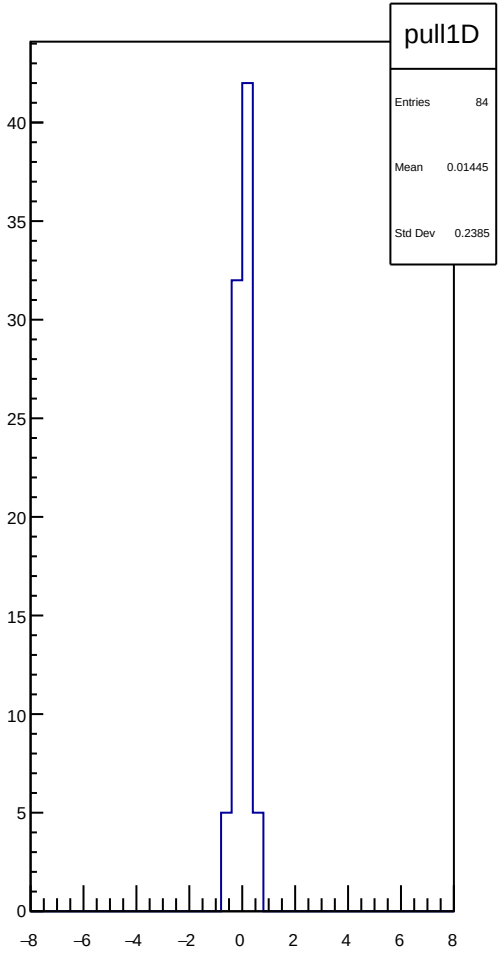

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 9.541 / 83
p0 264.3 ± 7.319
400
350
300
250
200
150
pull
Entries 84
Mean 14.29
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.03992
Std Dev 0.3347
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

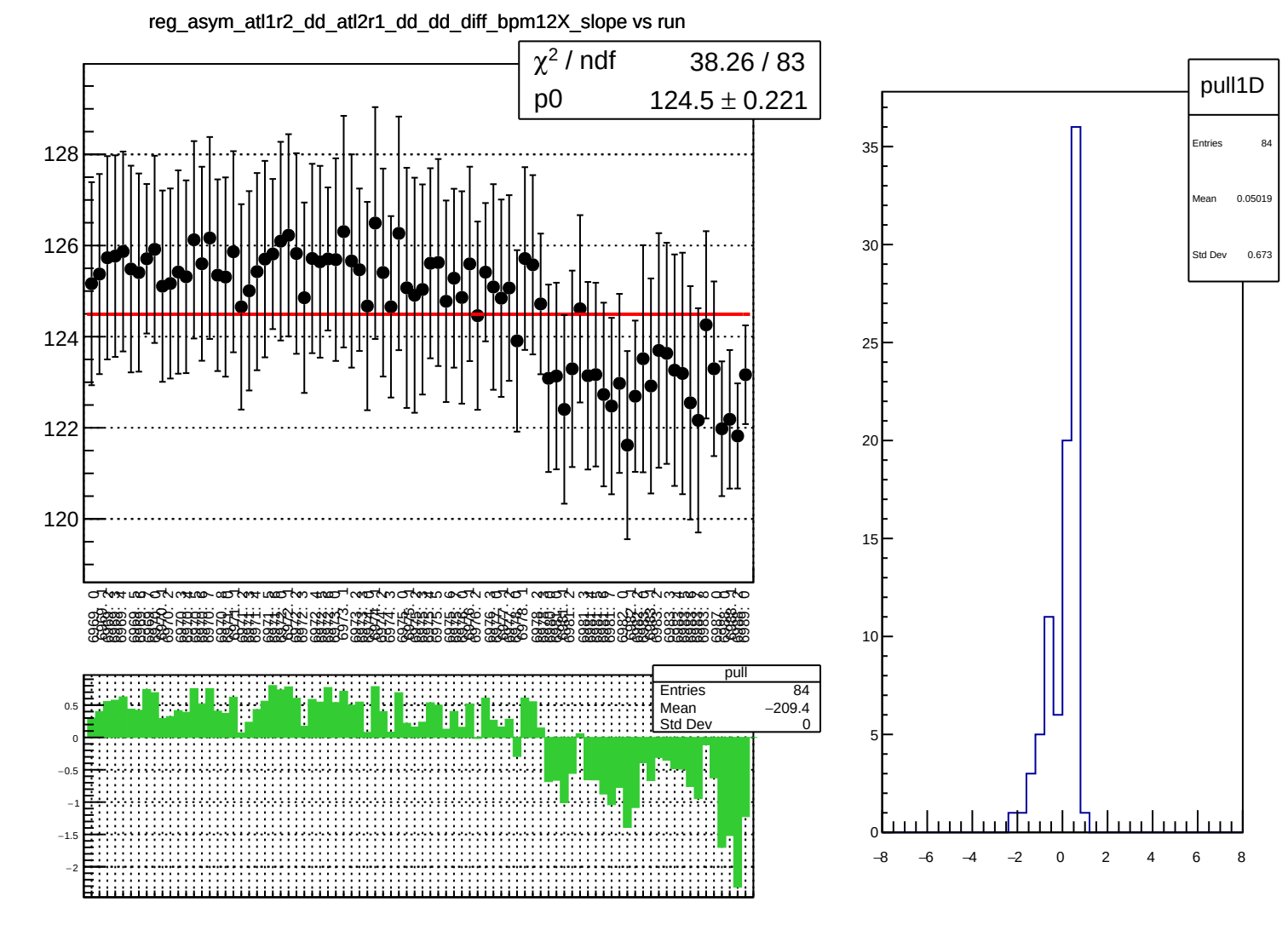

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.487 / 83
p0 −0.6185 ± 5.061
pull
Entries 84
Mean 18.82
Std Dev 17.41


pull1D
Entries 84
Mean −0.01507
Std Dev 0.2306


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.48 / 83
p0 −261.3 ± 6.708
−150
−200
−250
−300
−350
−400
pull
Entries 84
Mean 8.695
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 84
Mean −0.04937
Std Dev 0.3664
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.795 / 83
p0 −70.24 ± 5.792
pull
Entries 84
Mean 41.81
Std Dev 34.93


pull1D
Entries 84
Mean 0.01445
Std Dev 0.2385


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 38.26 / 83
p0 124.5 ± 0.221
128
126
124
122
120
pull
Entries 84
Mean −209.4
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.05019
Std Dev 0.673
35
30
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−4
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2
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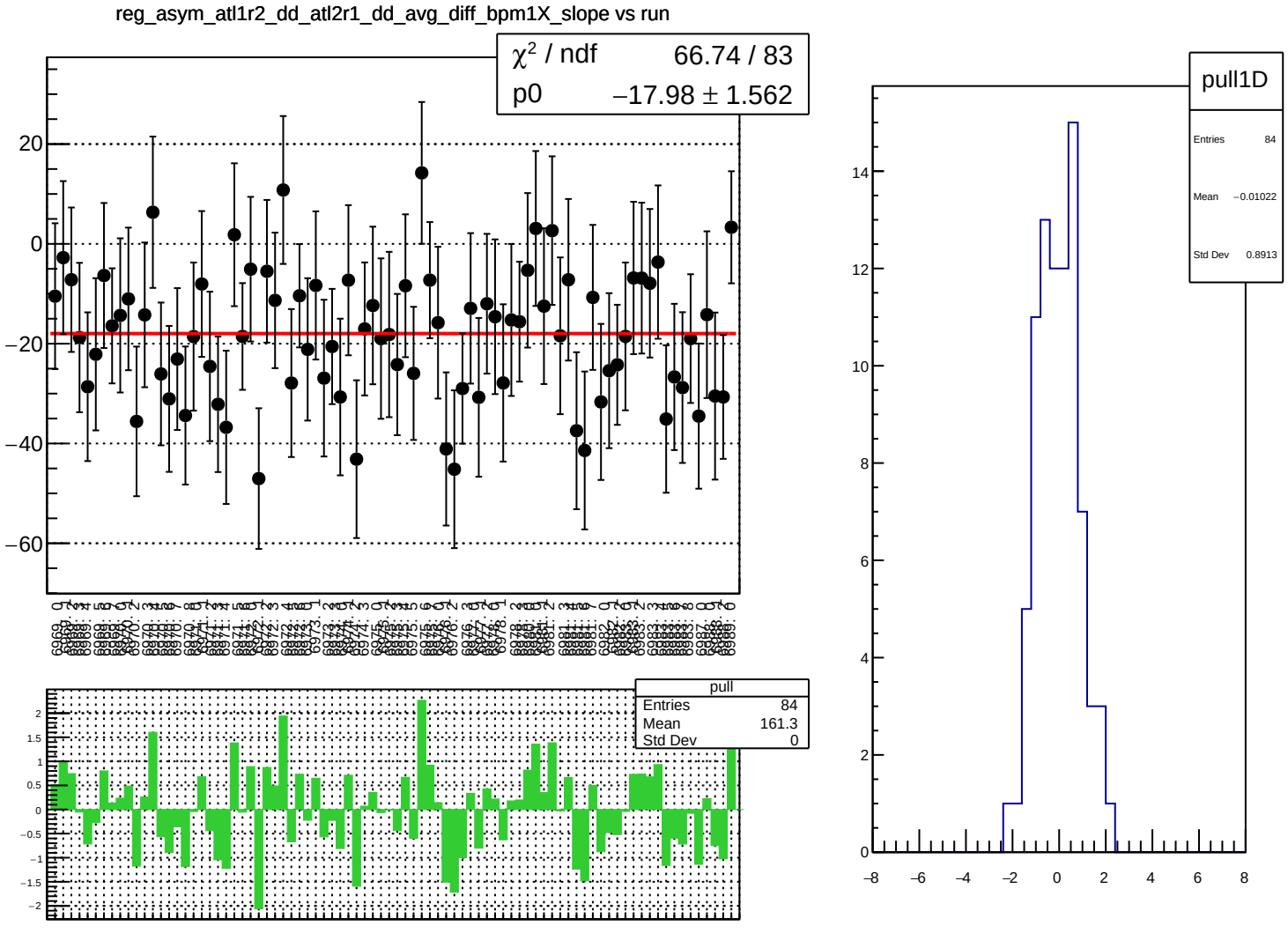
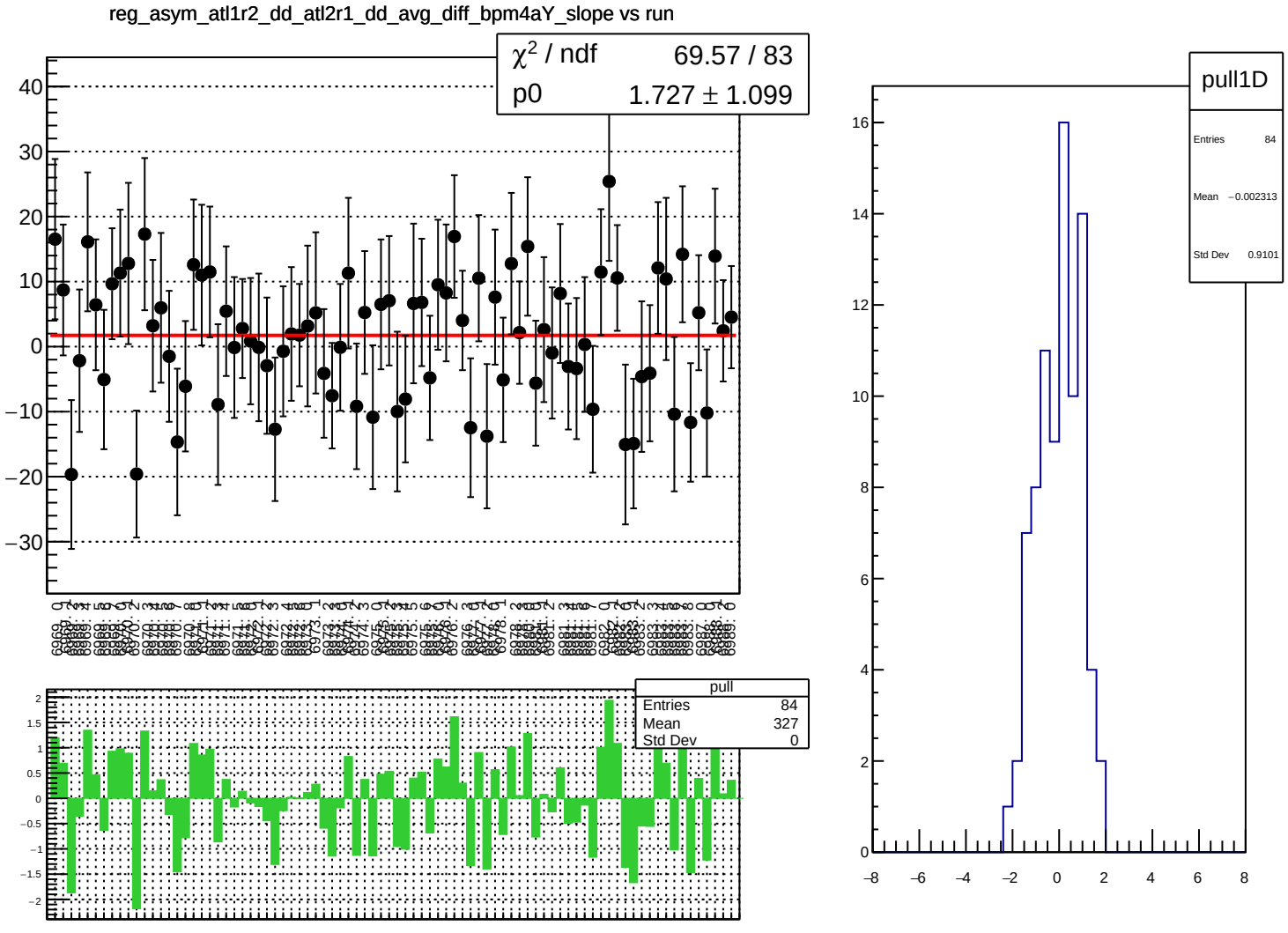
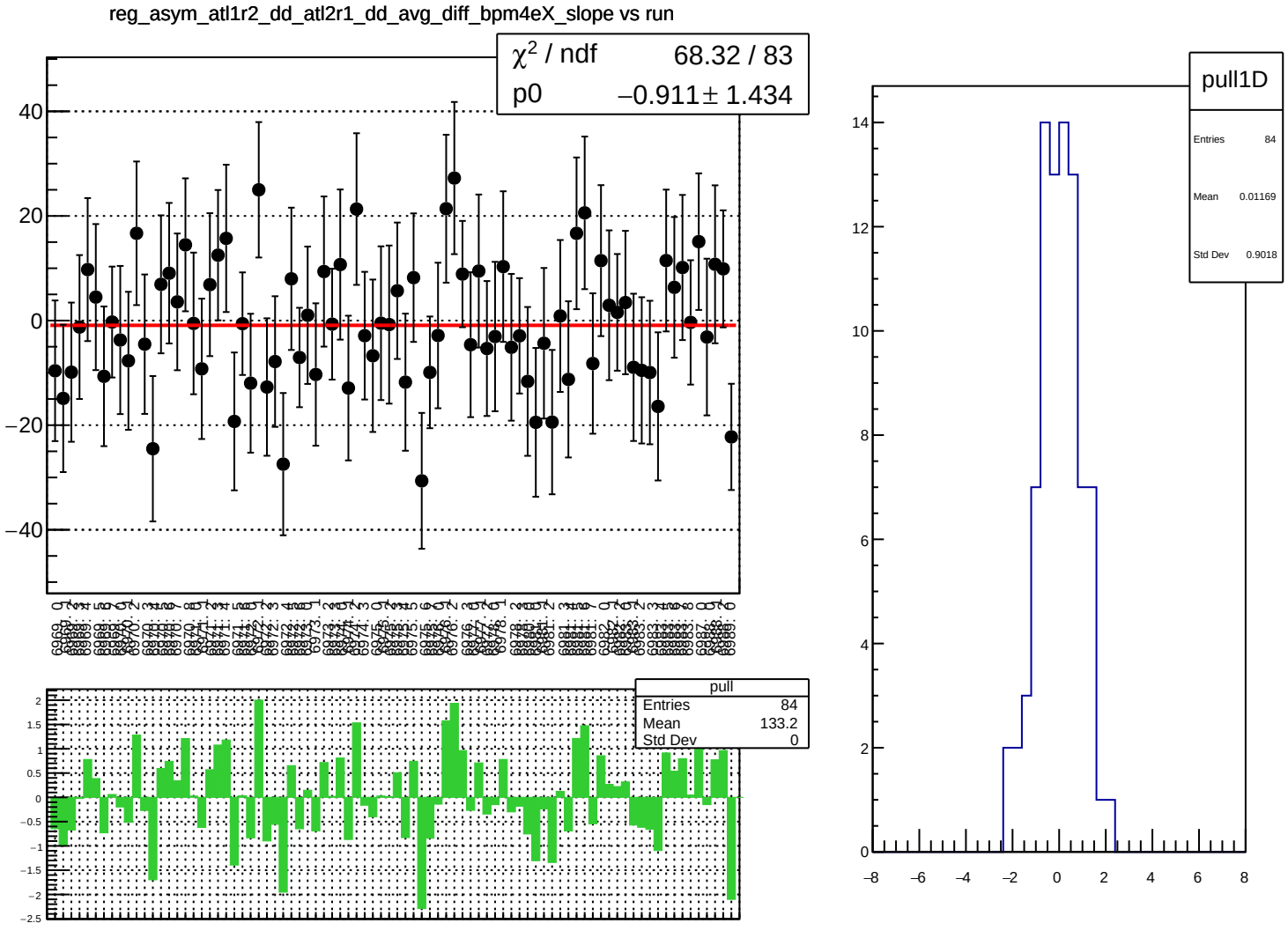
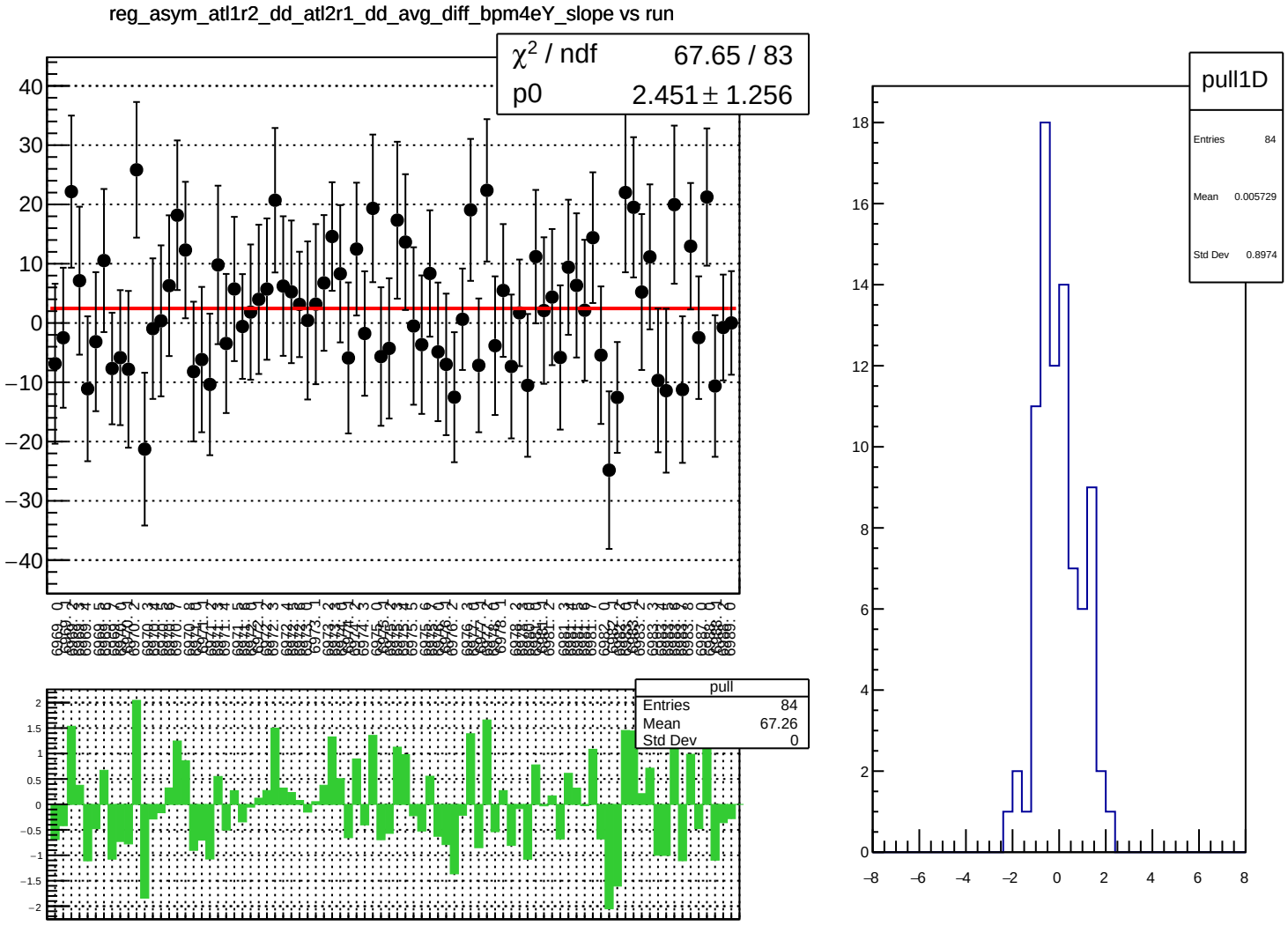
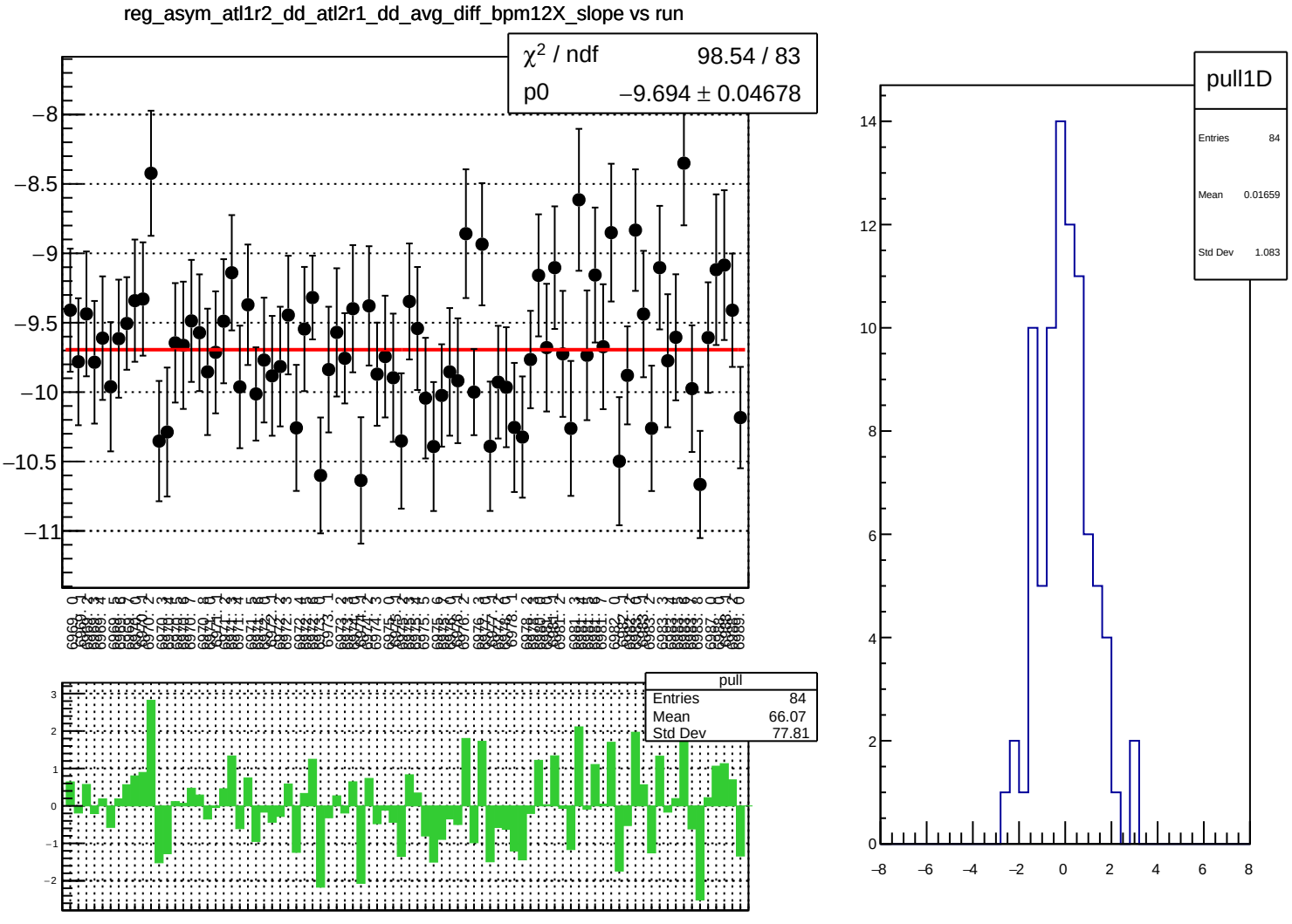
6
8

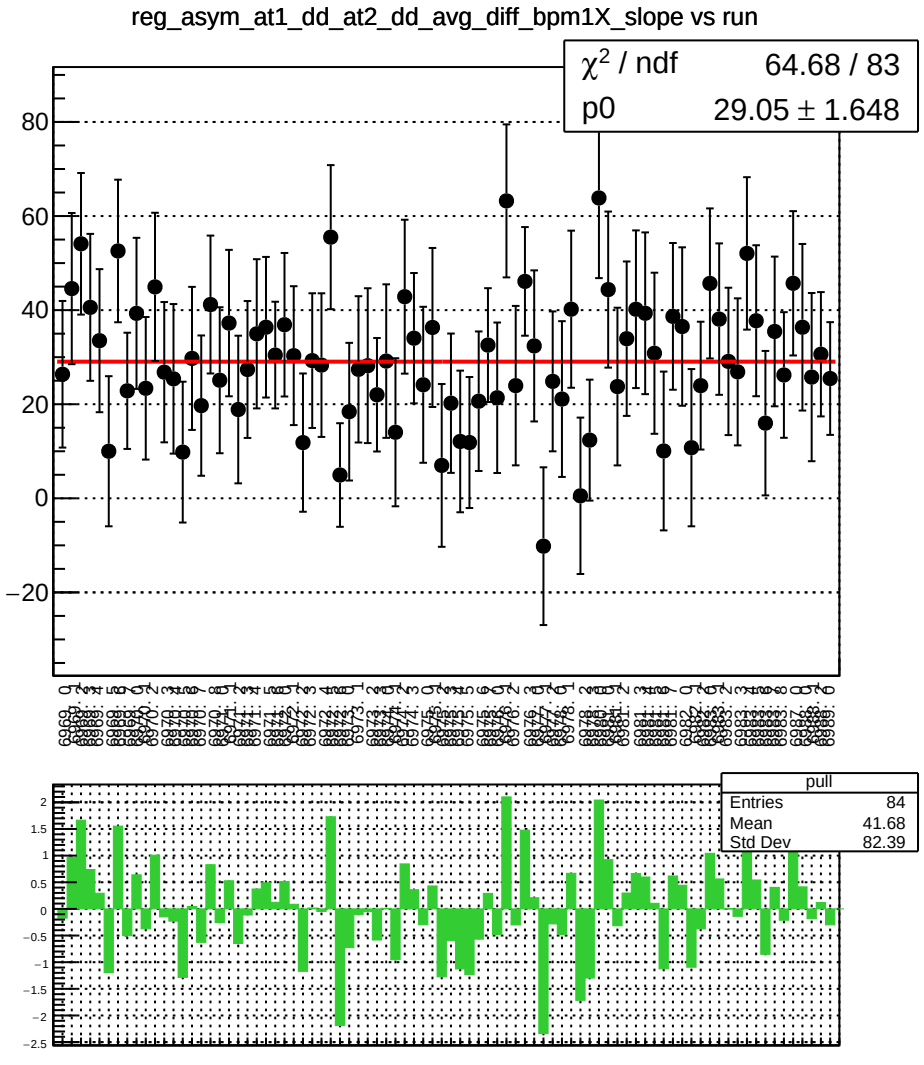

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 66.74 / 83
p0 −17.98 ± 1.562
pull
Entries 84
Mean 161.3
Std Dev 0
pull1D
Entries 84
Mean −0.01022
Std Dev 0.8913

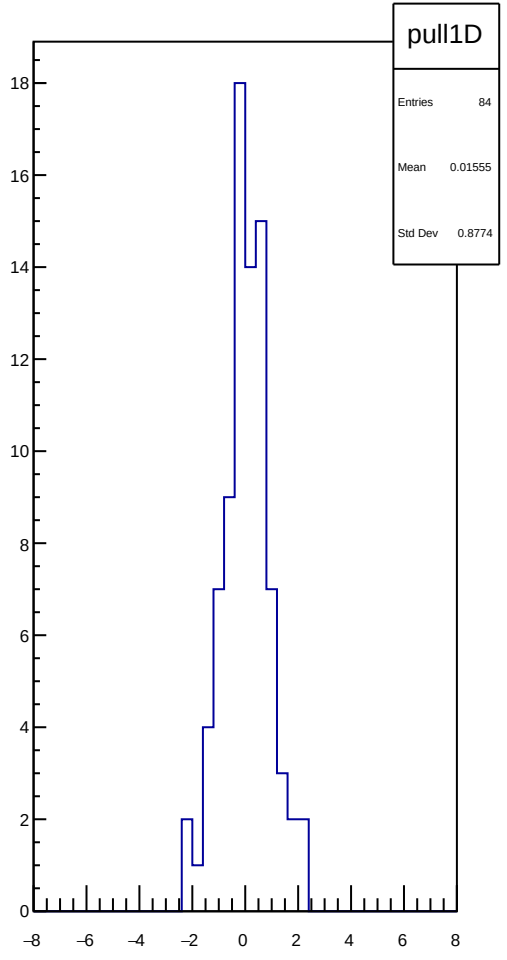

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 69.57 / 83
p0 1.727 ± 1.099
pull
Entries 84
Mean 327
Std Dev 0
pull1D
Entries 84
Mean −0.002313
Std Dev 0.9101

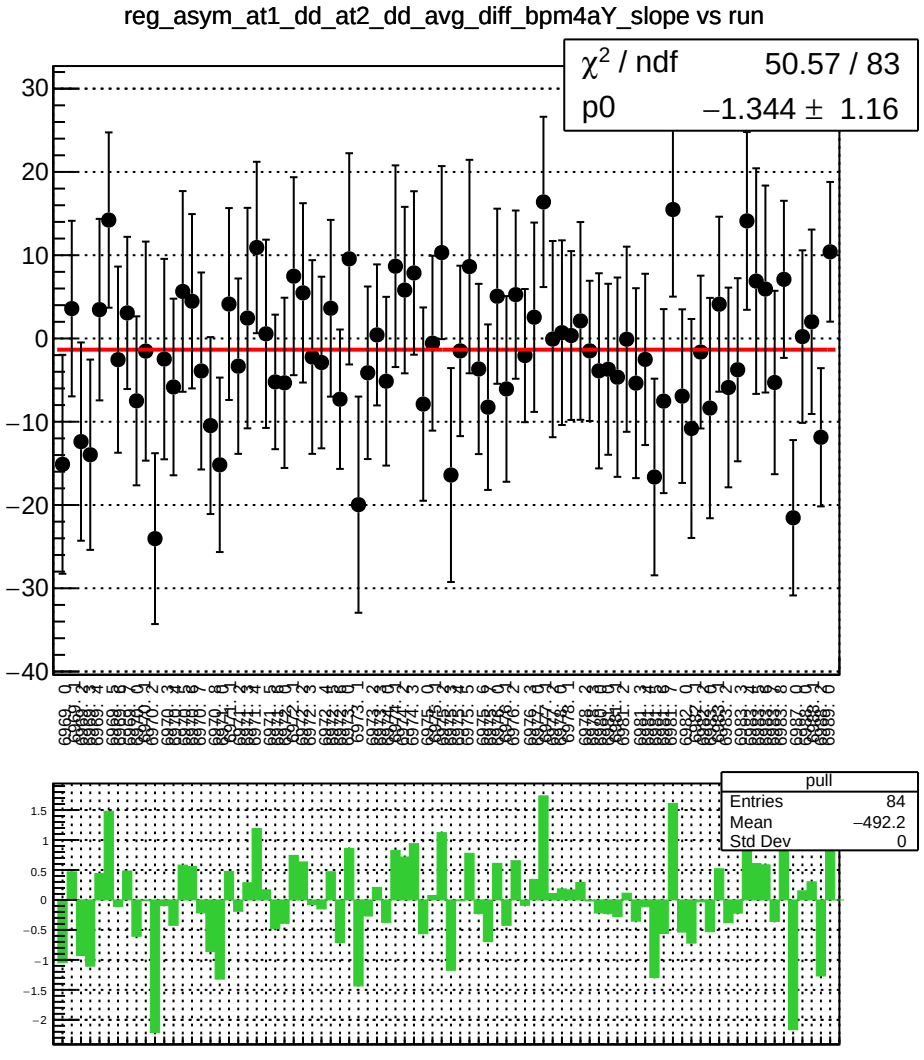

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.32 / 83
p0 −0.911± 1.434
pull
Entries 84
Mean 133.2
Std Dev 0
pull1D
Entries 84
Mean 0.01169
Std Dev 0.9018

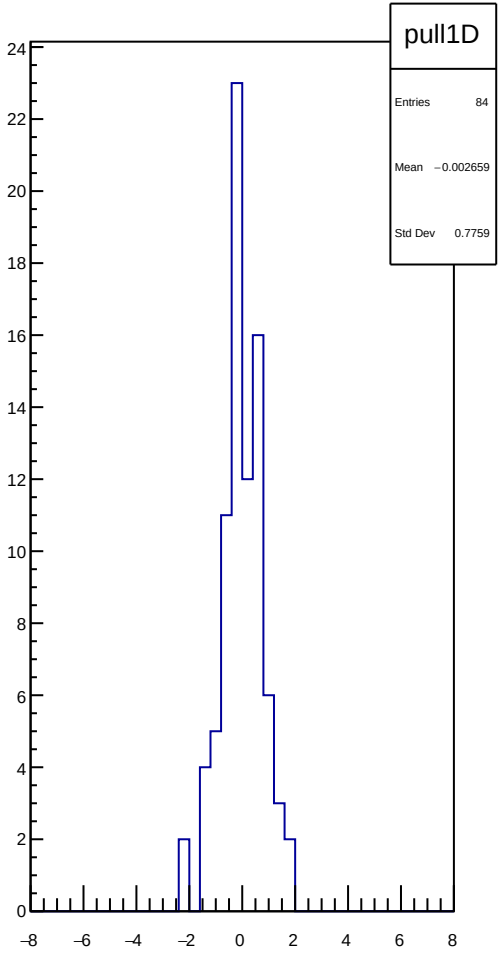

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 67.65 / 83
p0 2.451 ± 1.256
pull
Entries 84
Mean 67.26
Std Dev 0
pull1D
Entries 84
Mean 0.005729
Std Dev 0.8974

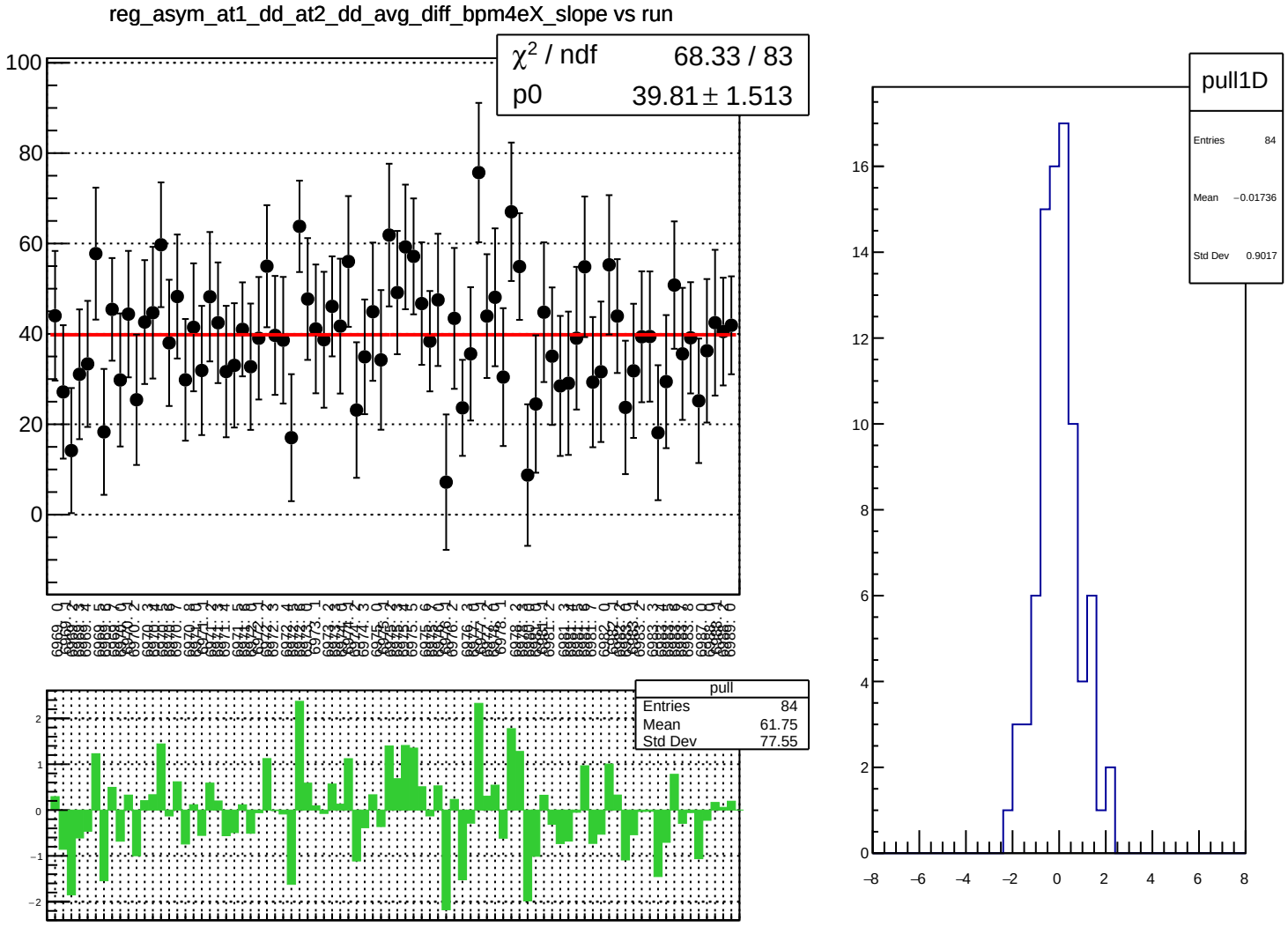

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 98.54 / 83
p0 −9.694 ± 0.04678
pull
Entries 84
Mean 66.07
Std Dev 77.81
pull1D
Entries 84
Mean 0.01659
Std Dev 1.083

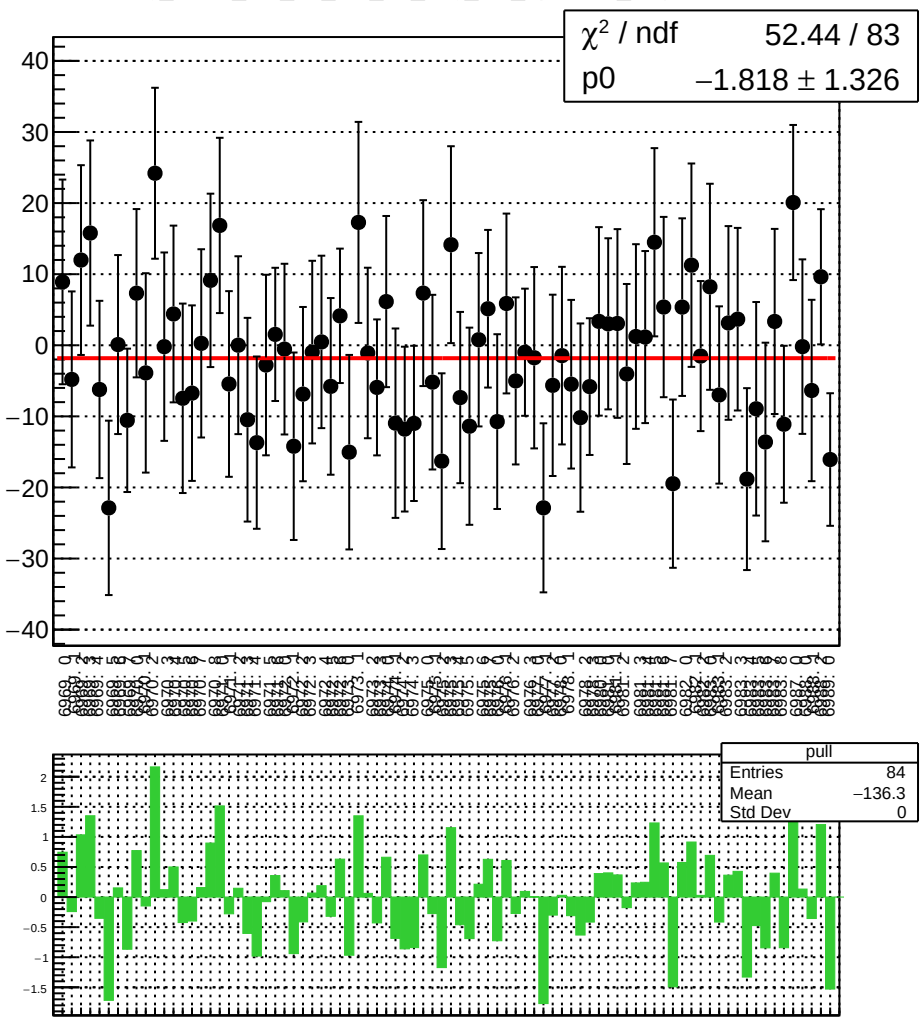

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 64.68 / 83
p0 29.05 ± 1.648
pull
Entries 84
Mean 41.68
Std Dev 82.39

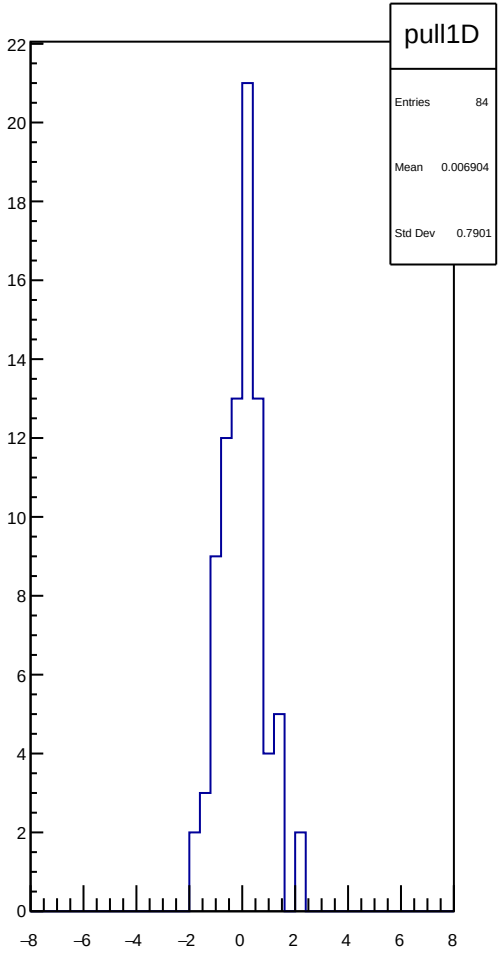

pull1D
Entries 84
Mean 0.01555
Std Dev 0.8774

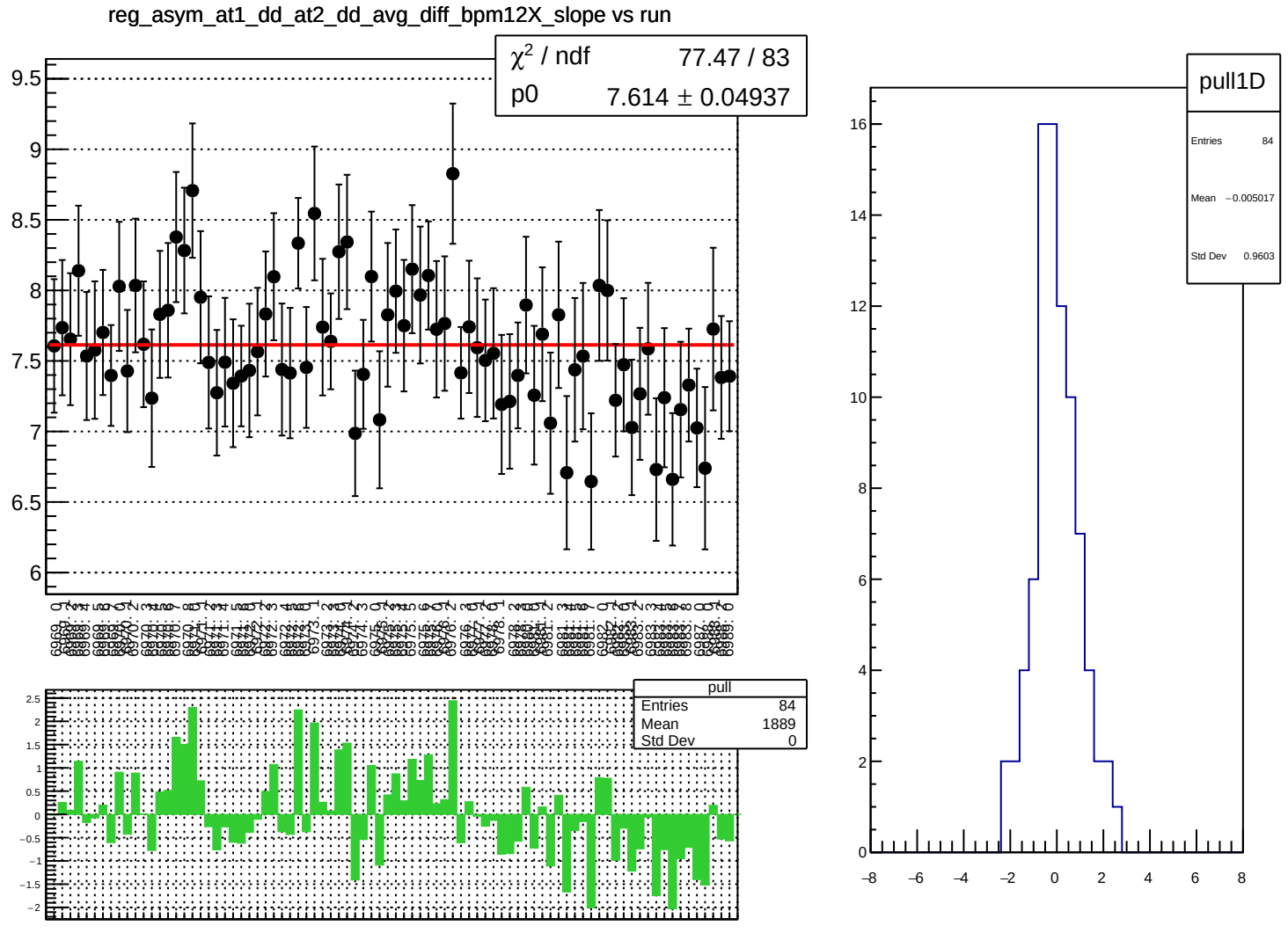

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 50.57 / 83
p0 −1.344 ± 1.16
pull
Entries 84
Mean −492.2
Std Dev 0

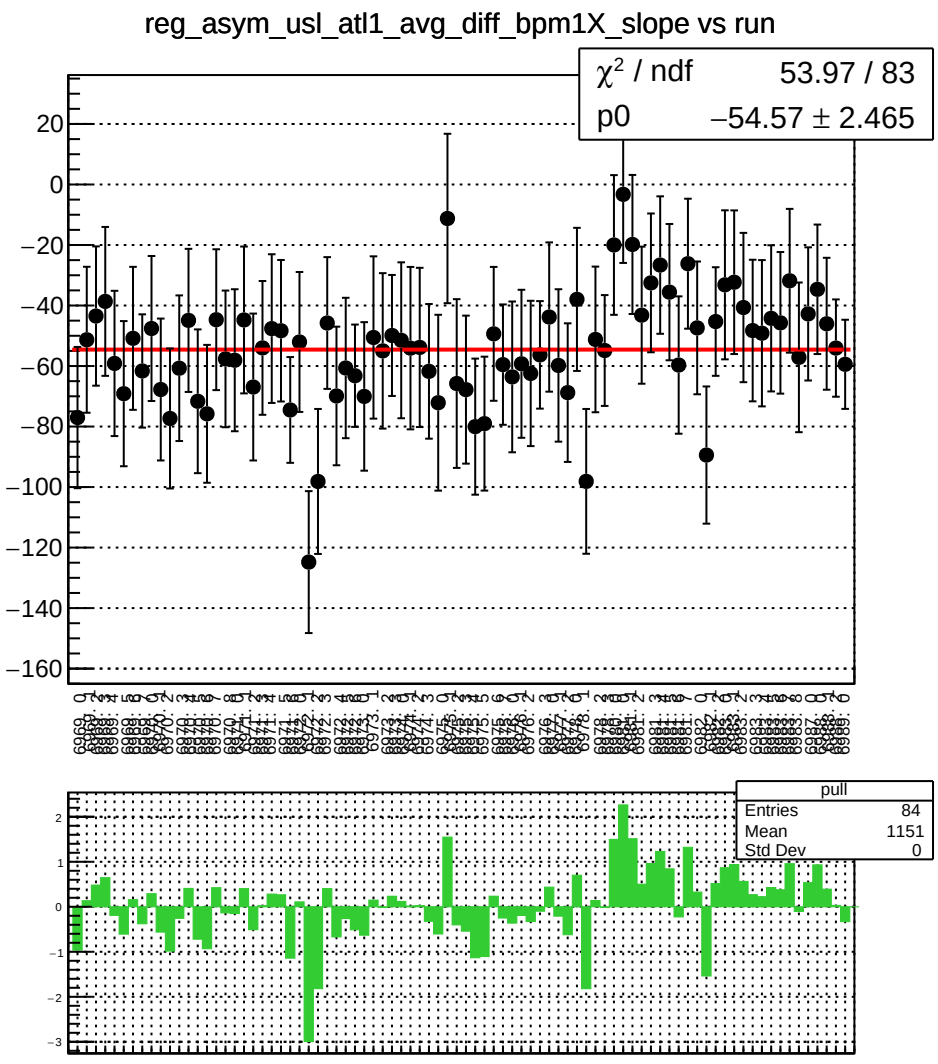

pull1D
Entries 84
Mean −0.002659
Std Dev 0.7759

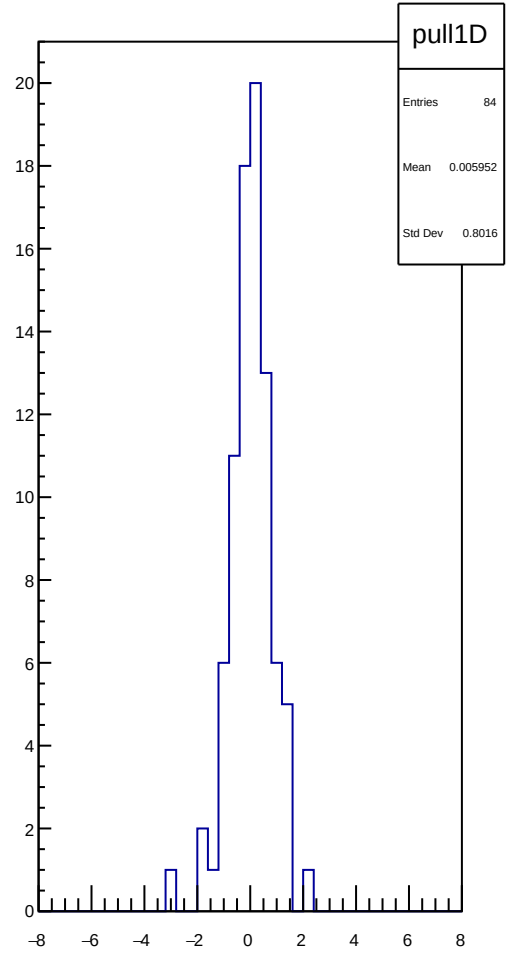

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.33 / 83
p0 39.81 ± 1.513
pull
Entries 84
Mean 61.75
Std Dev 77.55
pull1D
Entries 84
Mean −0.01736
Std Dev 0.9017

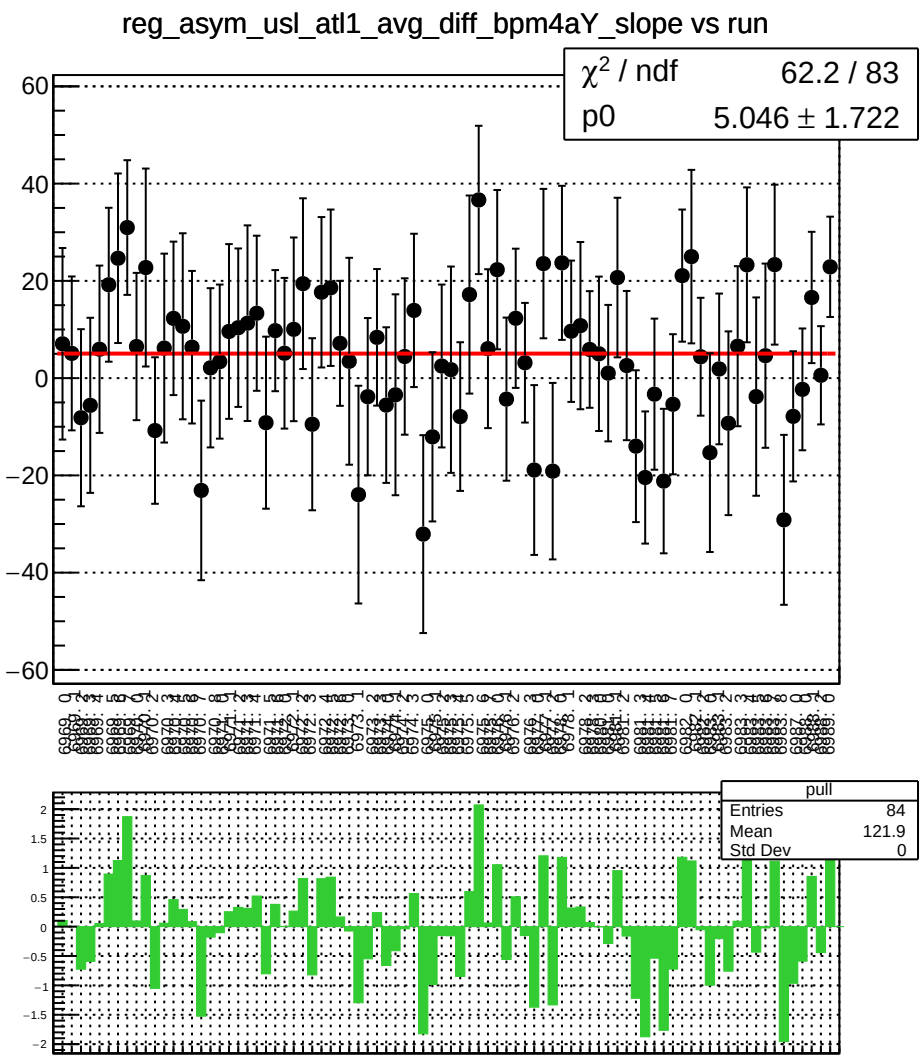

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.44 / 83
p0 −1.818 ± 1.326
pull
Entries 84
Mean −136.3
Std Dev 0

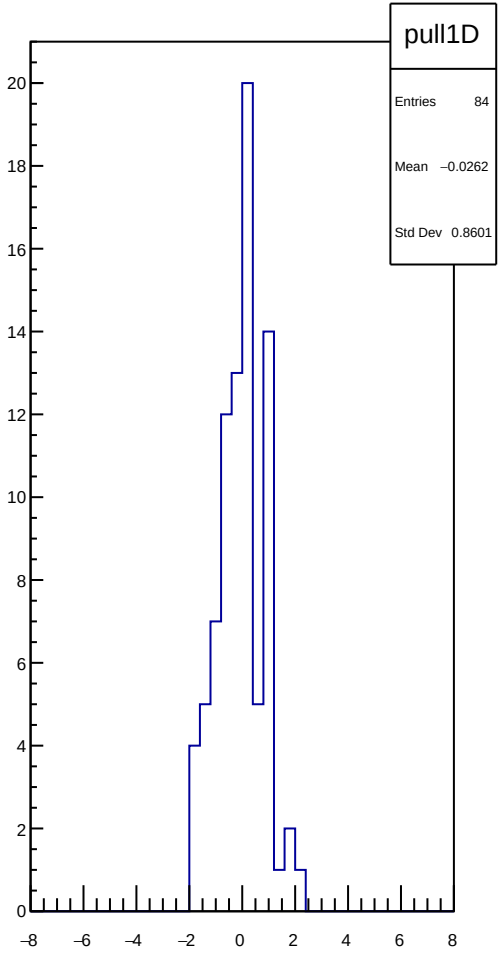

pull1D
Entries 84
Mean 0.006904
Std Dev 0.7901

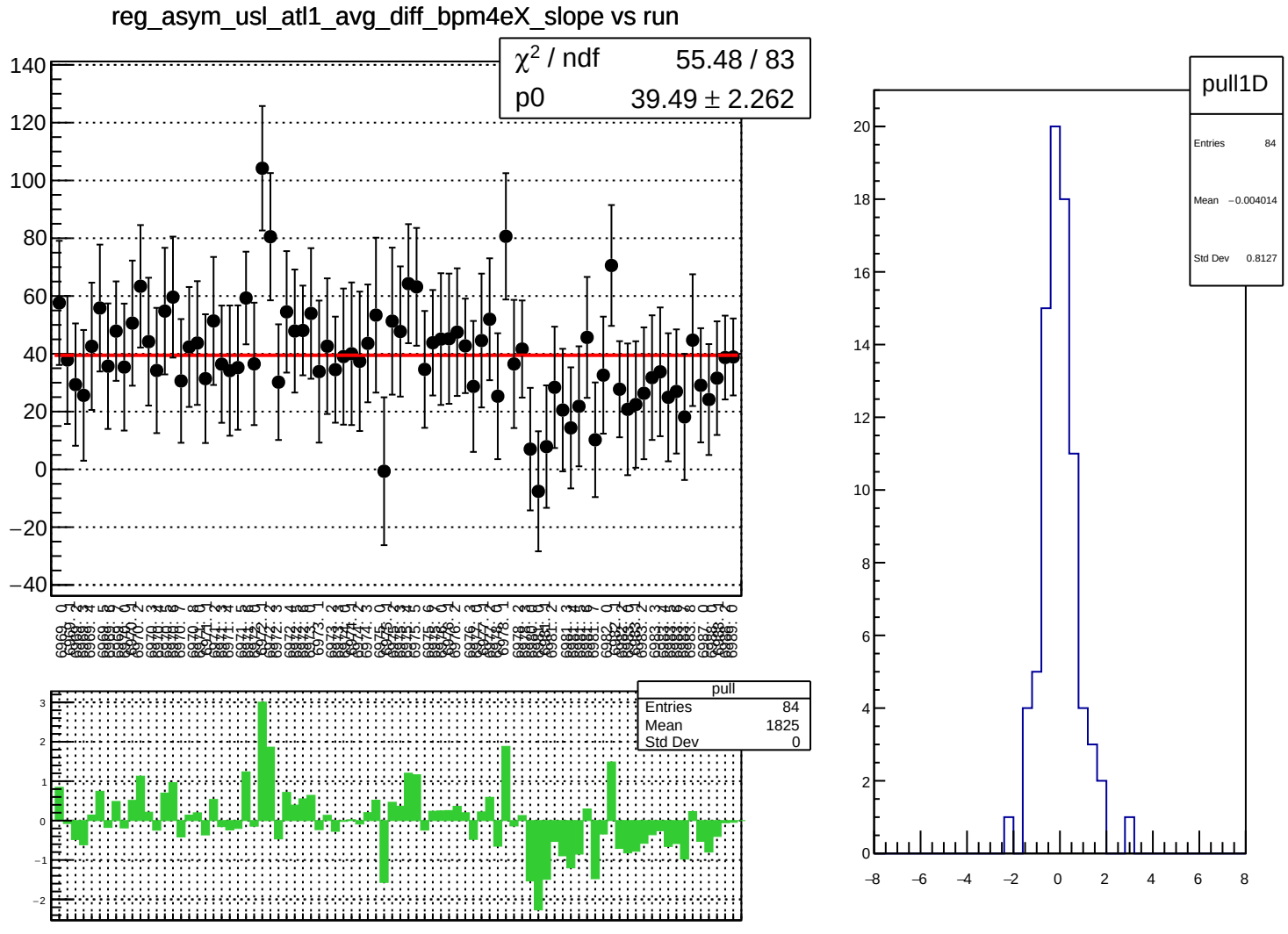

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 77.47 / 83
p0 7.614 ± 0.04937
pull
Entries 84
Mean 1889
Std Dev 0
pull1D
Entries 84
Mean −0.005017
Std Dev 0.9603

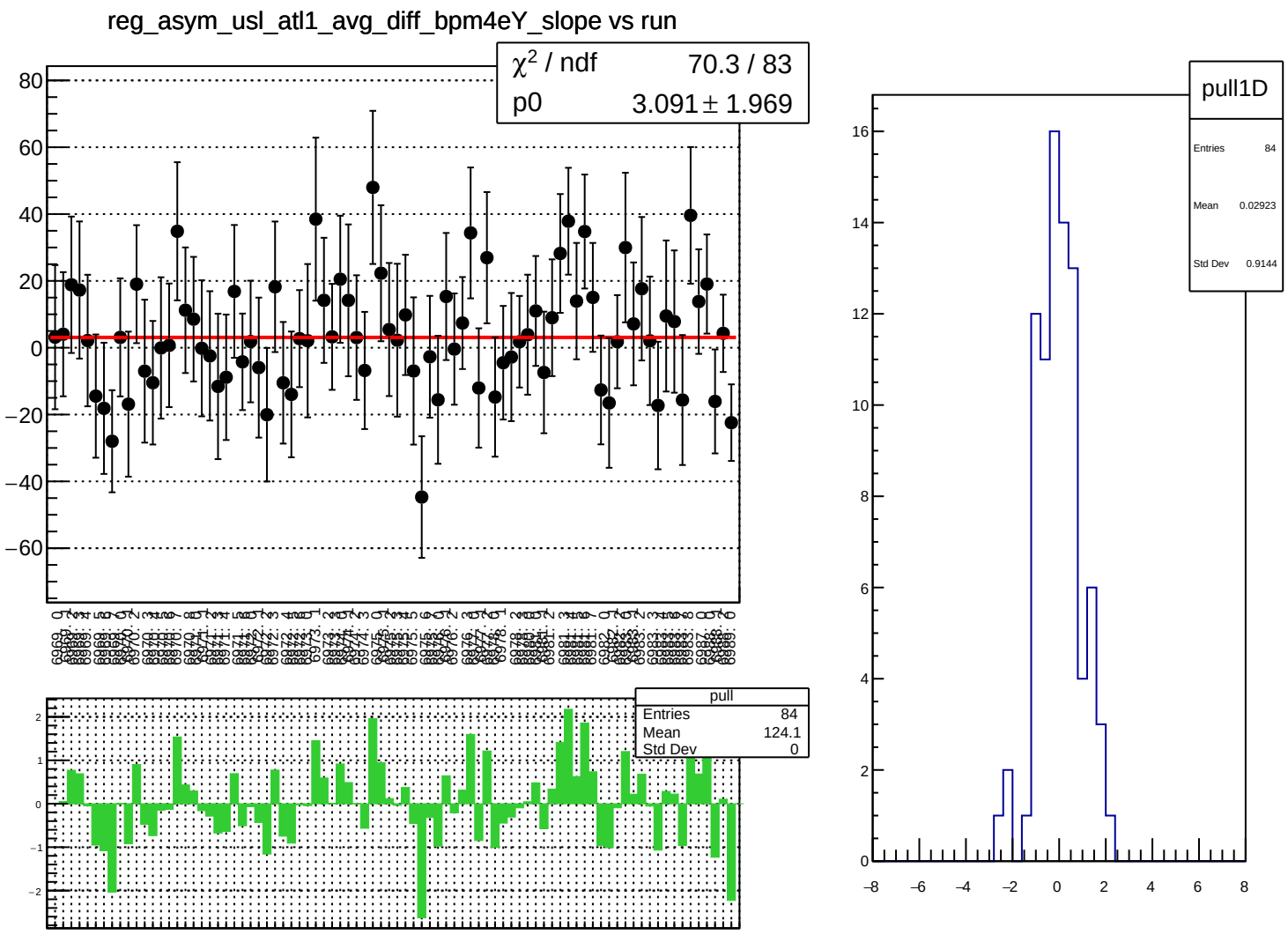

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 53.97 / 83
p0 −54.57 ± 2.465
pull
Entries 84
Mean 1151
Std Dev 0

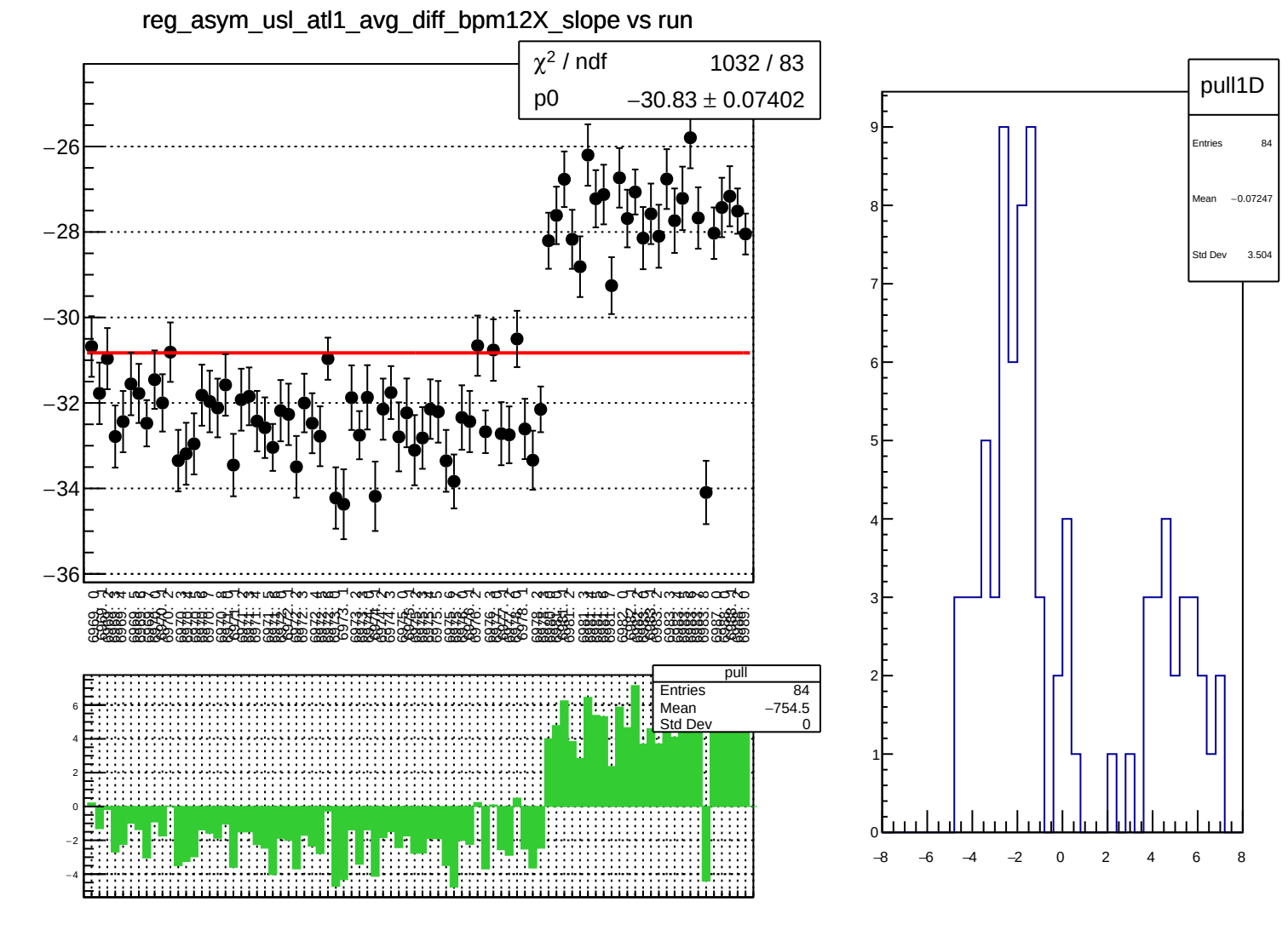

pull1D
Entries 84
Mean 0.005952
Std Dev 0.8016

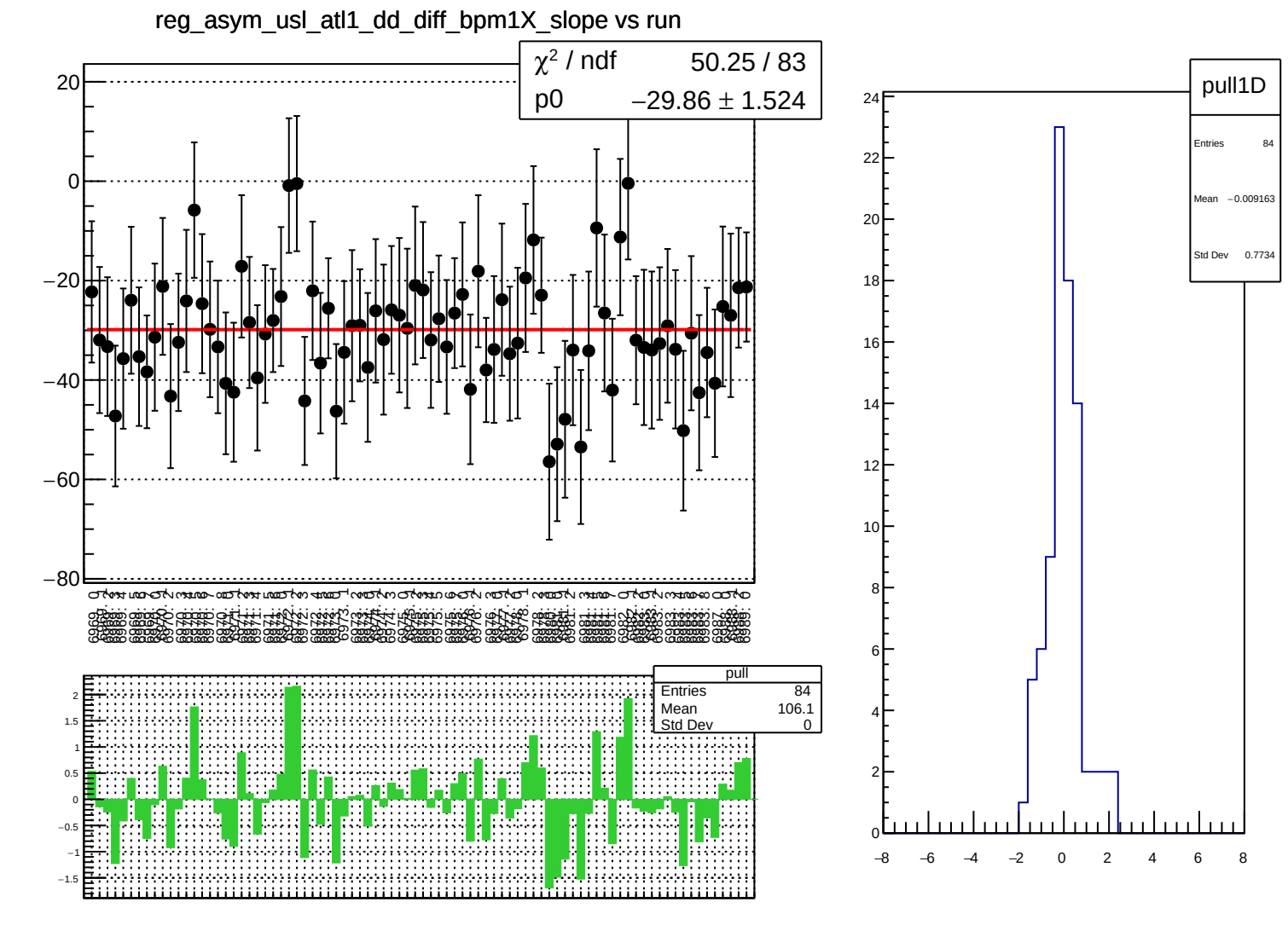

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 62.2 / 83
p0 5.046 ± 1.722
pull
Entries 84
Mean 121.9
Std Dev 0

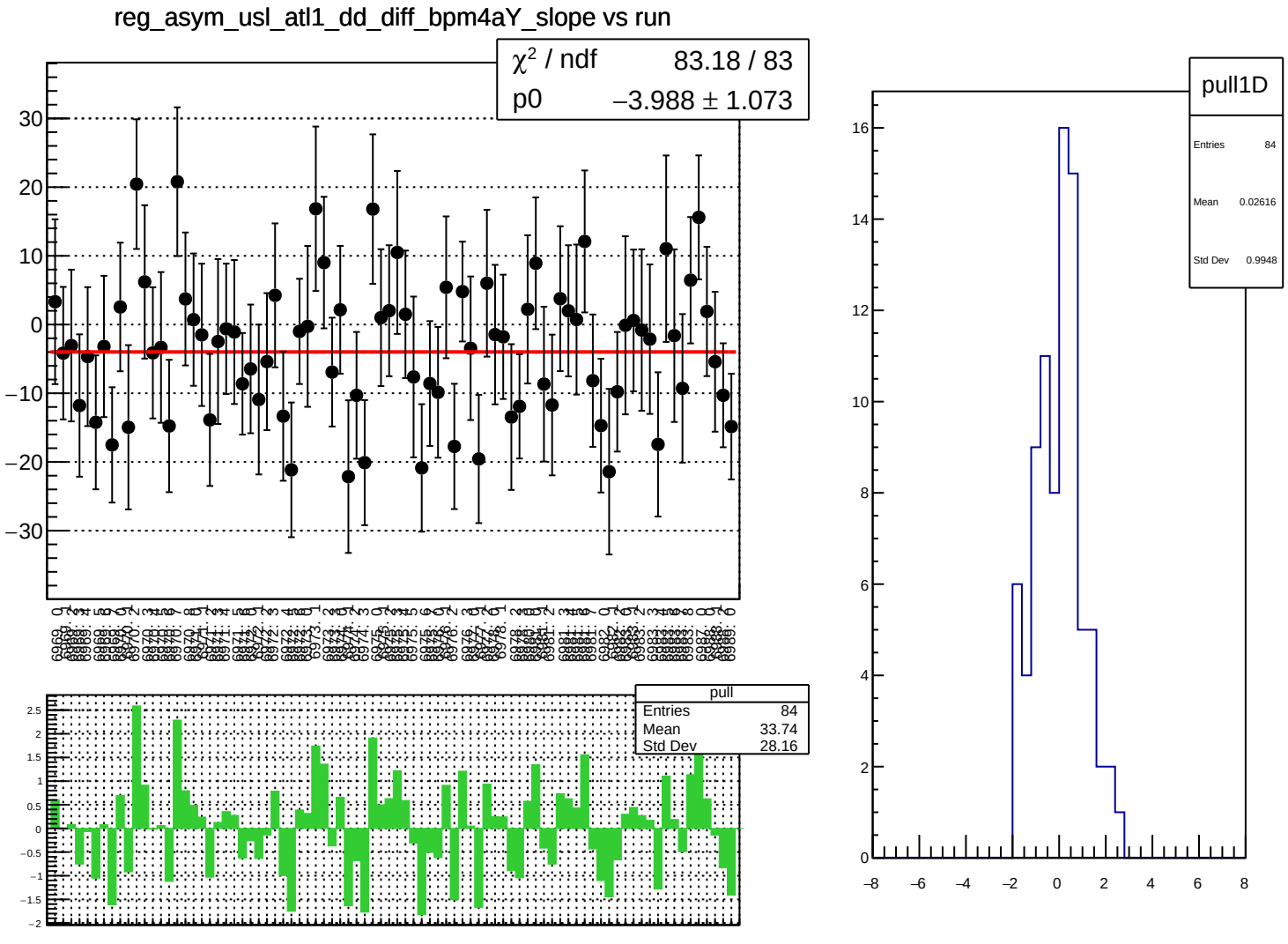

pull1D
Entries 84
Mean −0.0262
Std Dev 0.8601

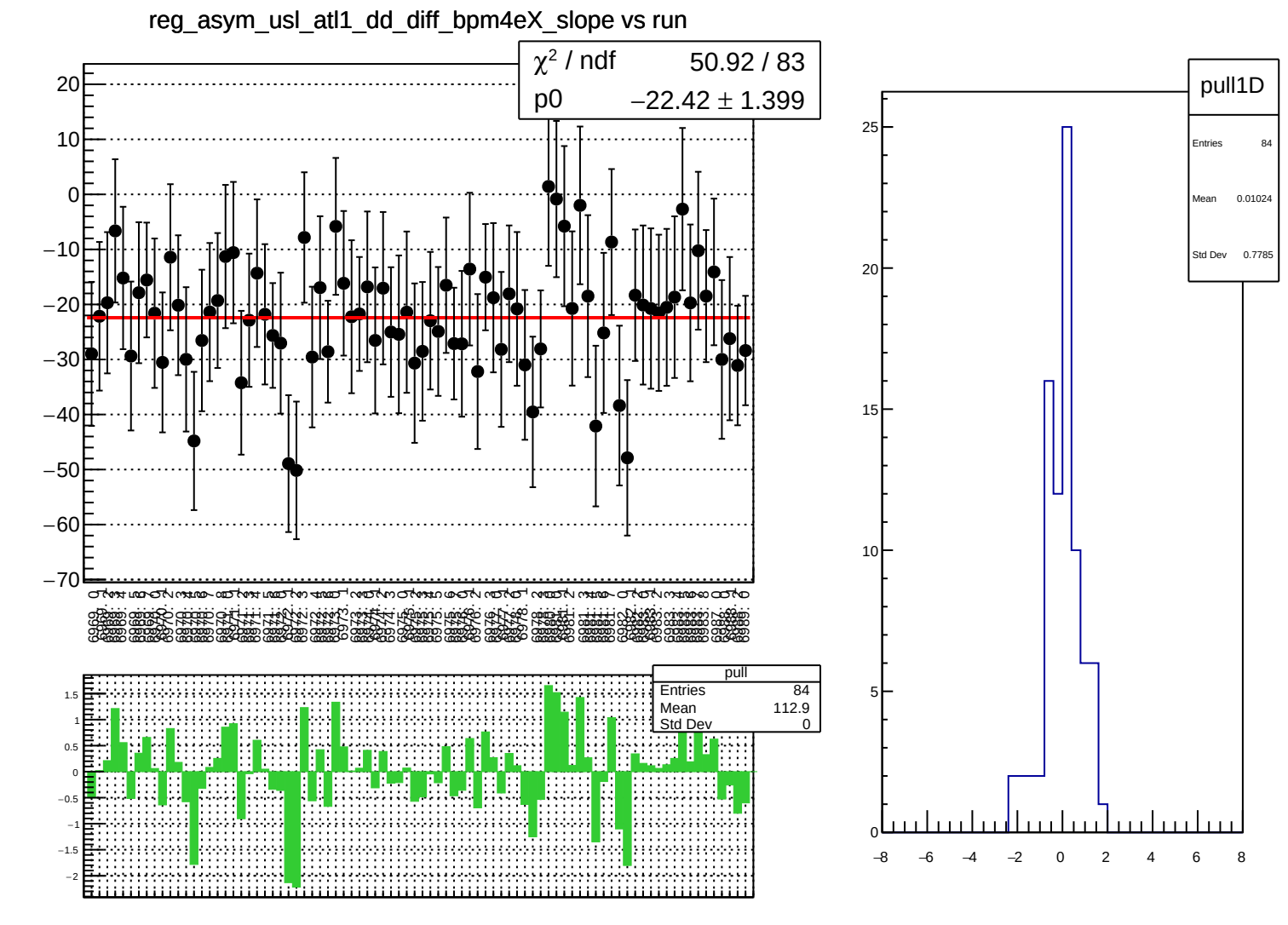

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.48 / 83
p0 39.49 ± 2.262
pull
Entries 84
Mean 1825
Std Dev 0
pull1D
Entries 84
Mean −0.004014
Std Dev 0.8127

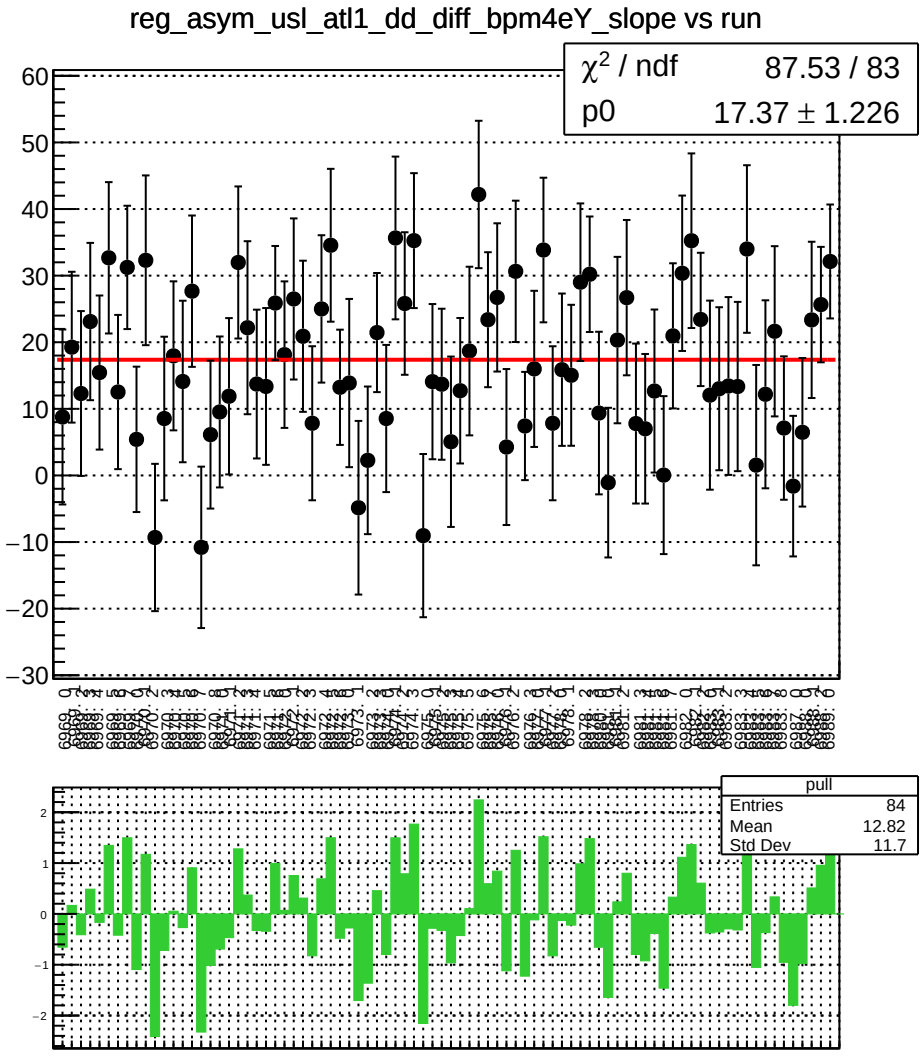

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 70.3 / 83
p0 3.091 ± 1.969
pull
Entries 84
Mean 124.1
Std Dev 0
pull1D
Entries 84
Mean 0.02923
Std Dev 0.9144

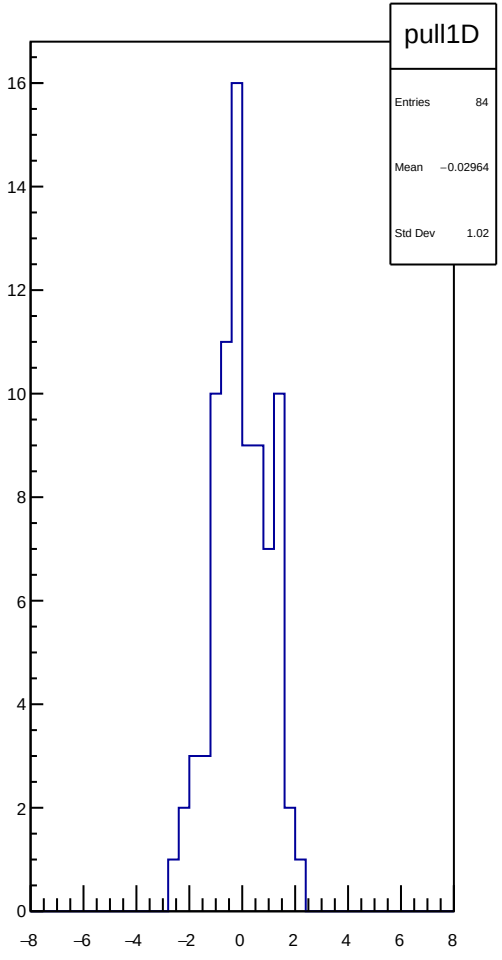

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 1032 / 83
p0 −30.83 ± 0.07402
pull
Entries 84
Mean −754.5
Std Dev 0
pull1D
Entries 84
Mean −0.07247
Std Dev 3.504

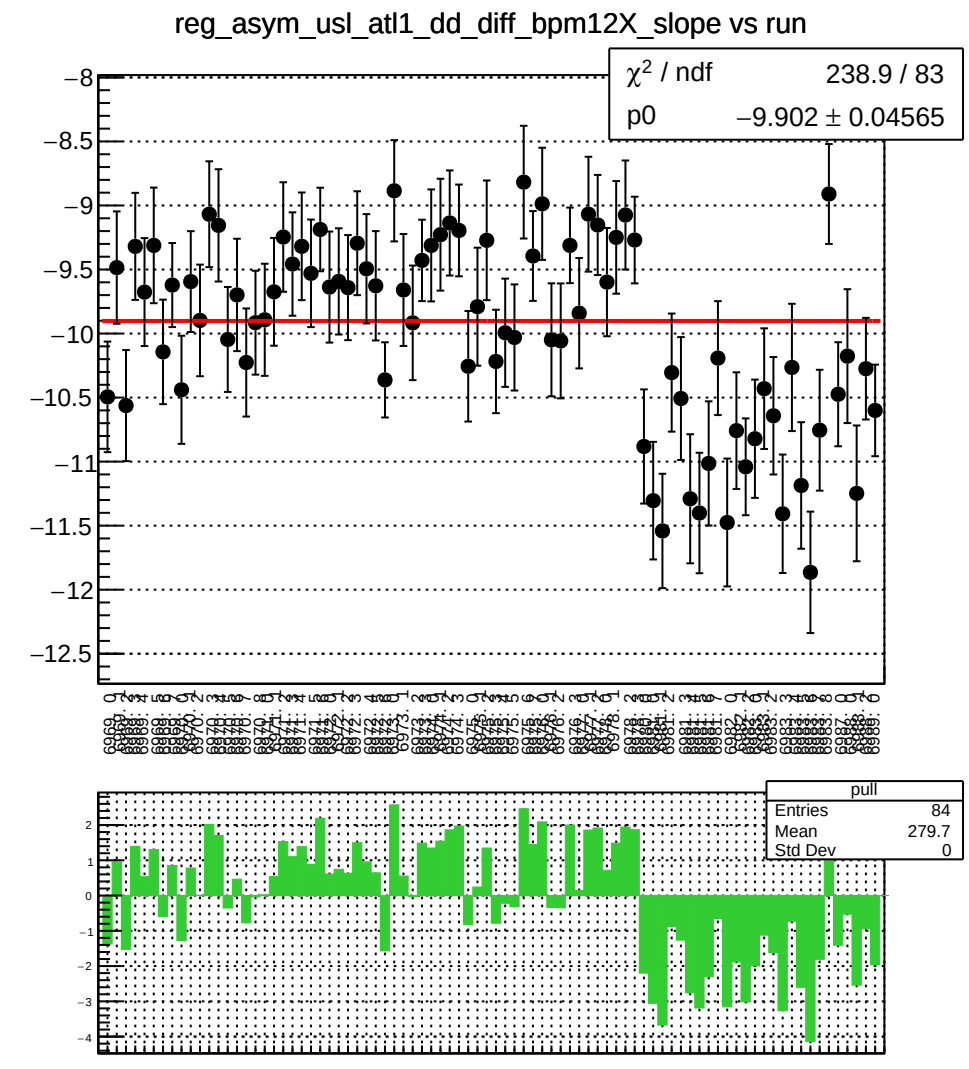

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 50.25 / 83
p0 −29.86 ± 1.524
pull
Entries 84
Mean 106.1
Std Dev 0
pull1D
Entries 84
Mean −0.009163
Std Dev 0.7734

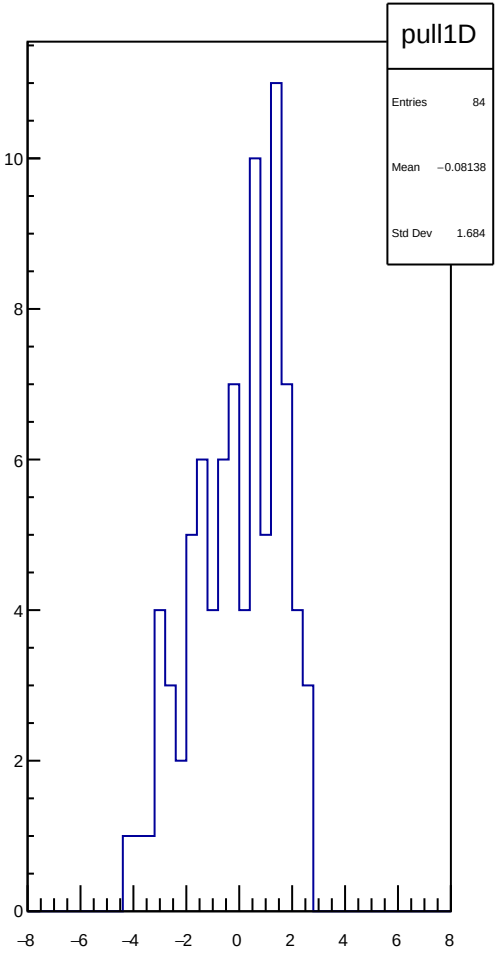

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.18 / 83
p0 −3.988 ± 1.073
pull
Entries 84
Mean 33.74
Std Dev 28.16
pull1D
Entries 84
Mean 0.02616
Std Dev 0.9948

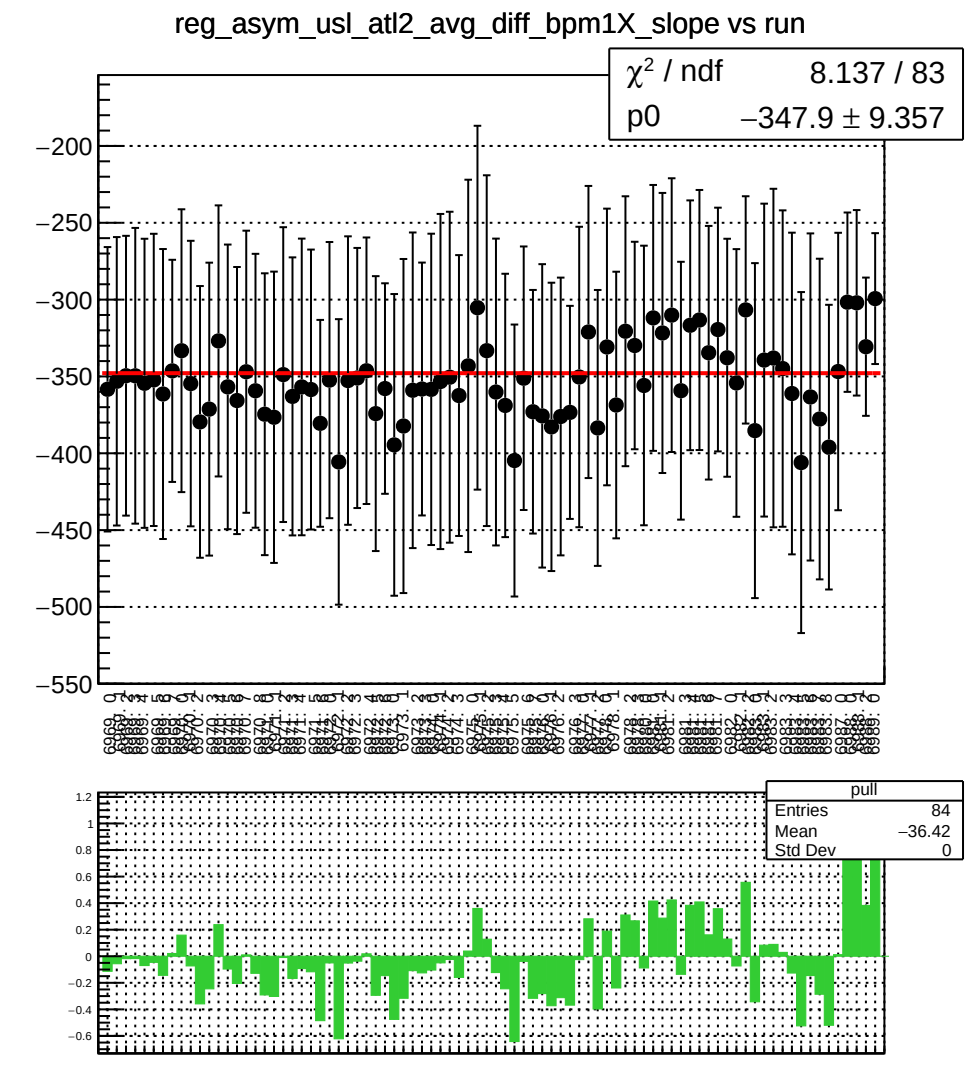

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.92 / 83
p0 −22.42 ± 1.399
pull
Entries 84
Mean 112.9
Std Dev 0
pull1D
Entries 84
Mean 0.01024
Std Dev 0.7785

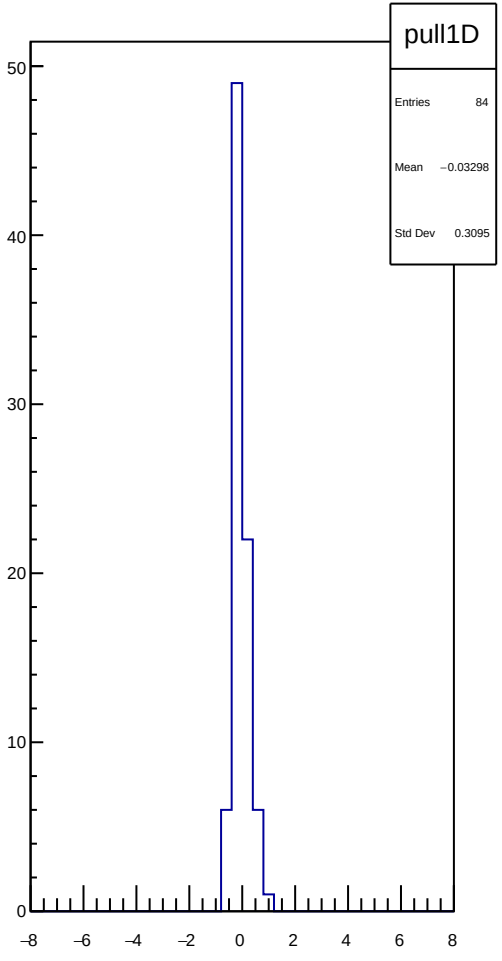

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 87.53 / 83
p0 17.37 ± 1.226
pull
Entries 84
Mean 12.82
Std Dev 11.7

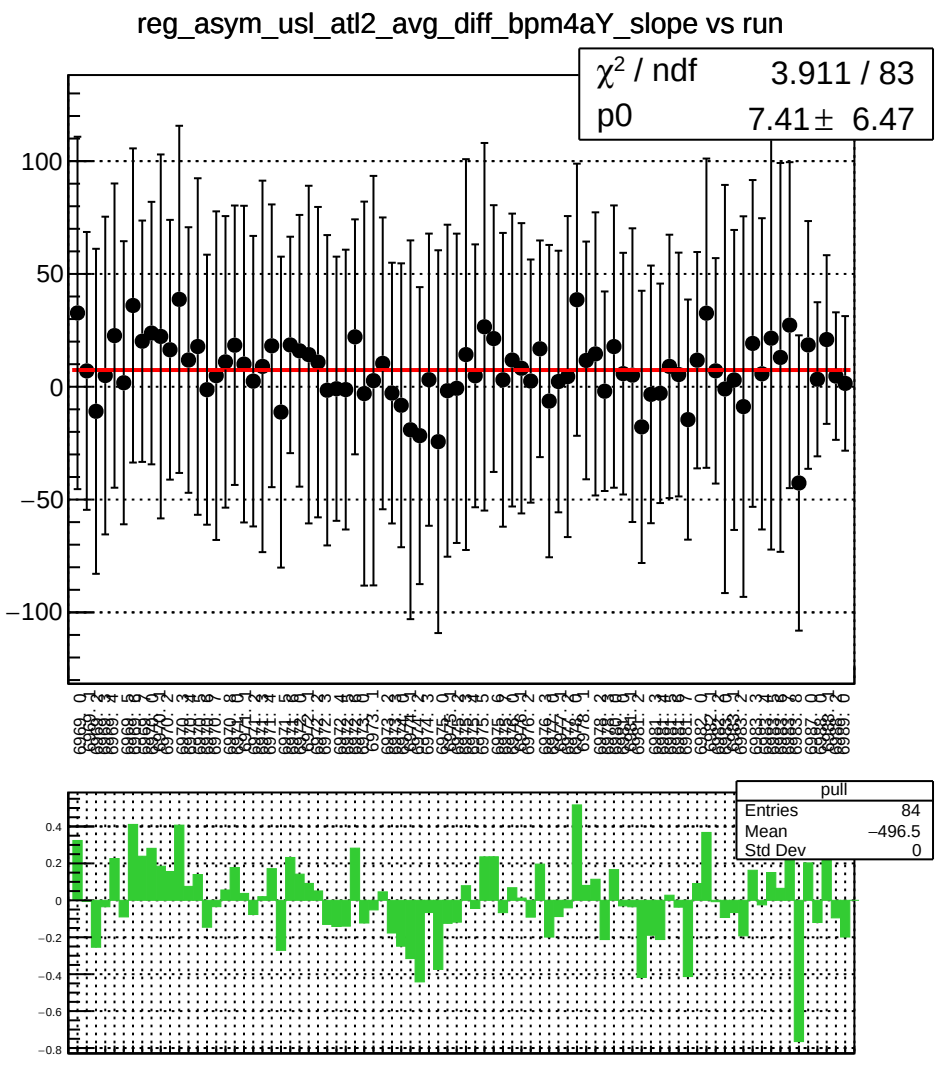

pull1D
Entries 84
Mean −0.02964
Std Dev 1.02

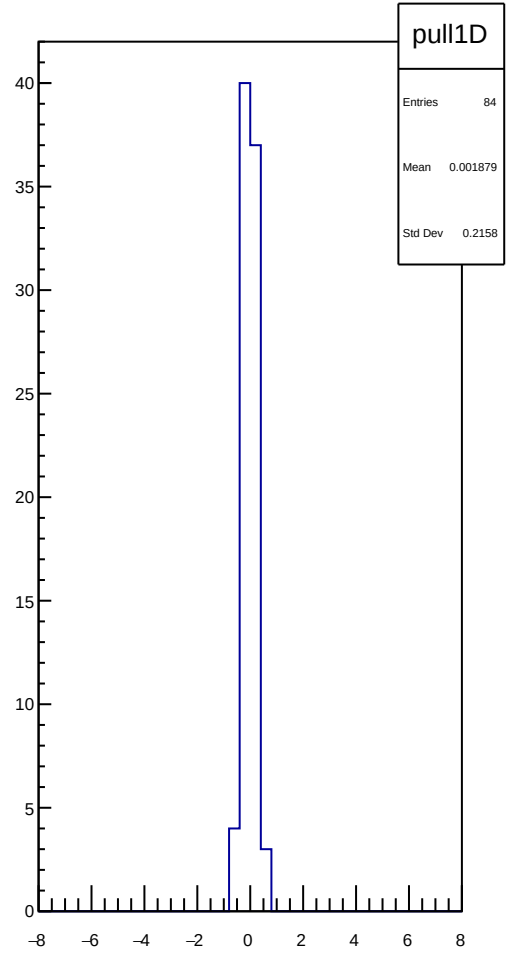

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 238.9 / 83
p0 −9.902 ± 0.04565
pull
Entries 84
Mean 279.7
Std Dev 0

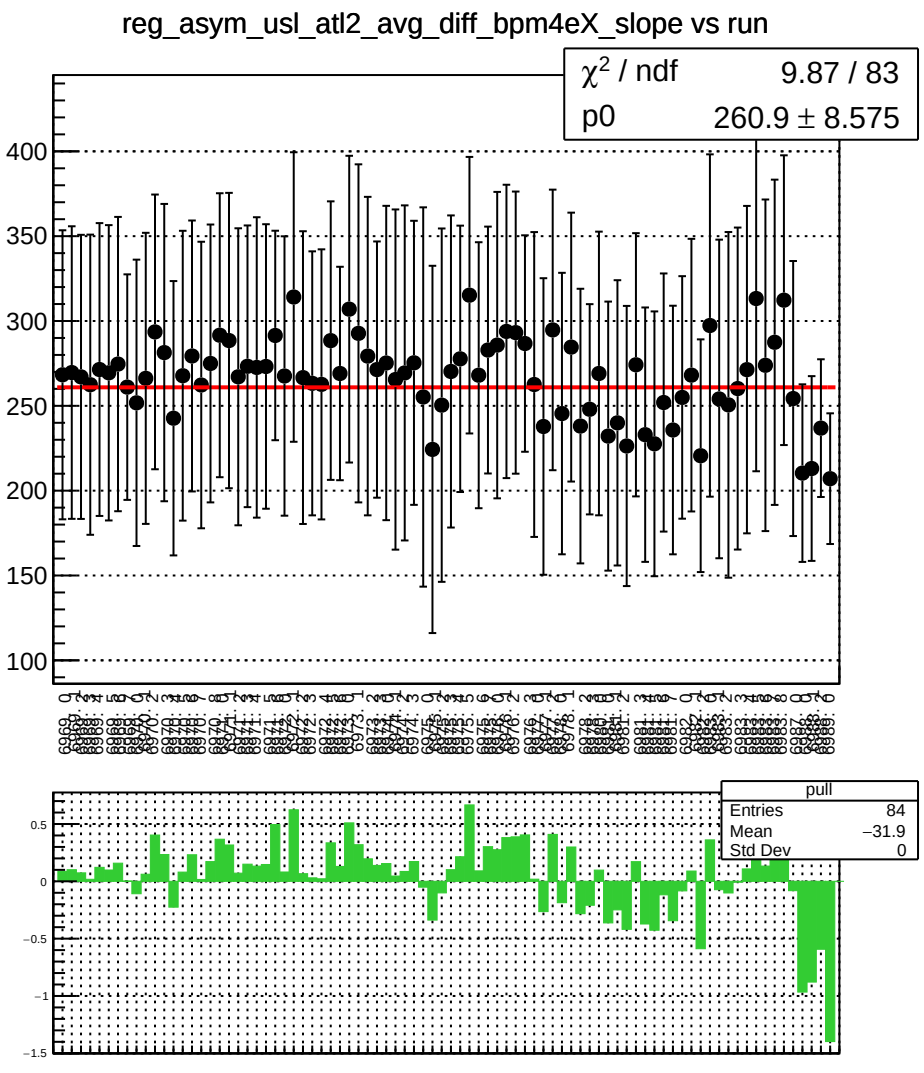

pull1D
Entries 84
Mean −0.08138
Std Dev 1.684

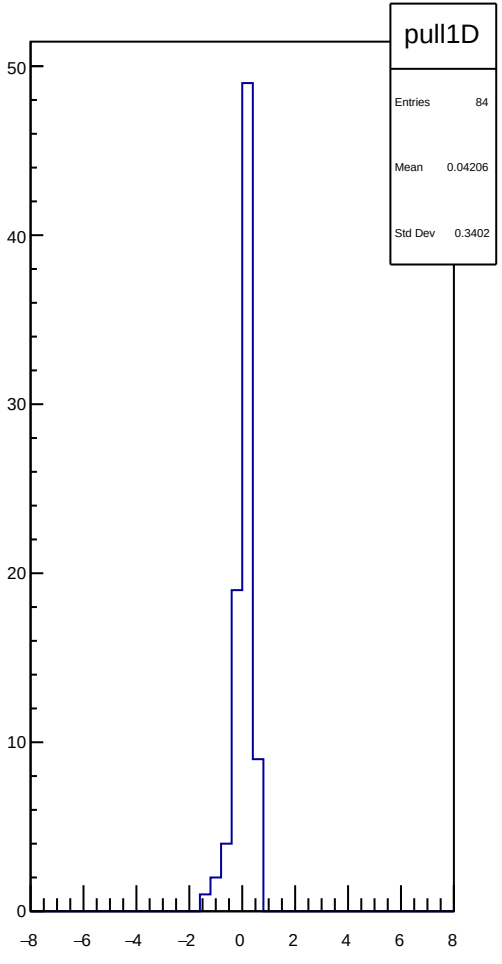

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.137 / 83
p0 −347.9 ± 9.357
pull
Entries 84
Mean −36.42
Std Dev 0

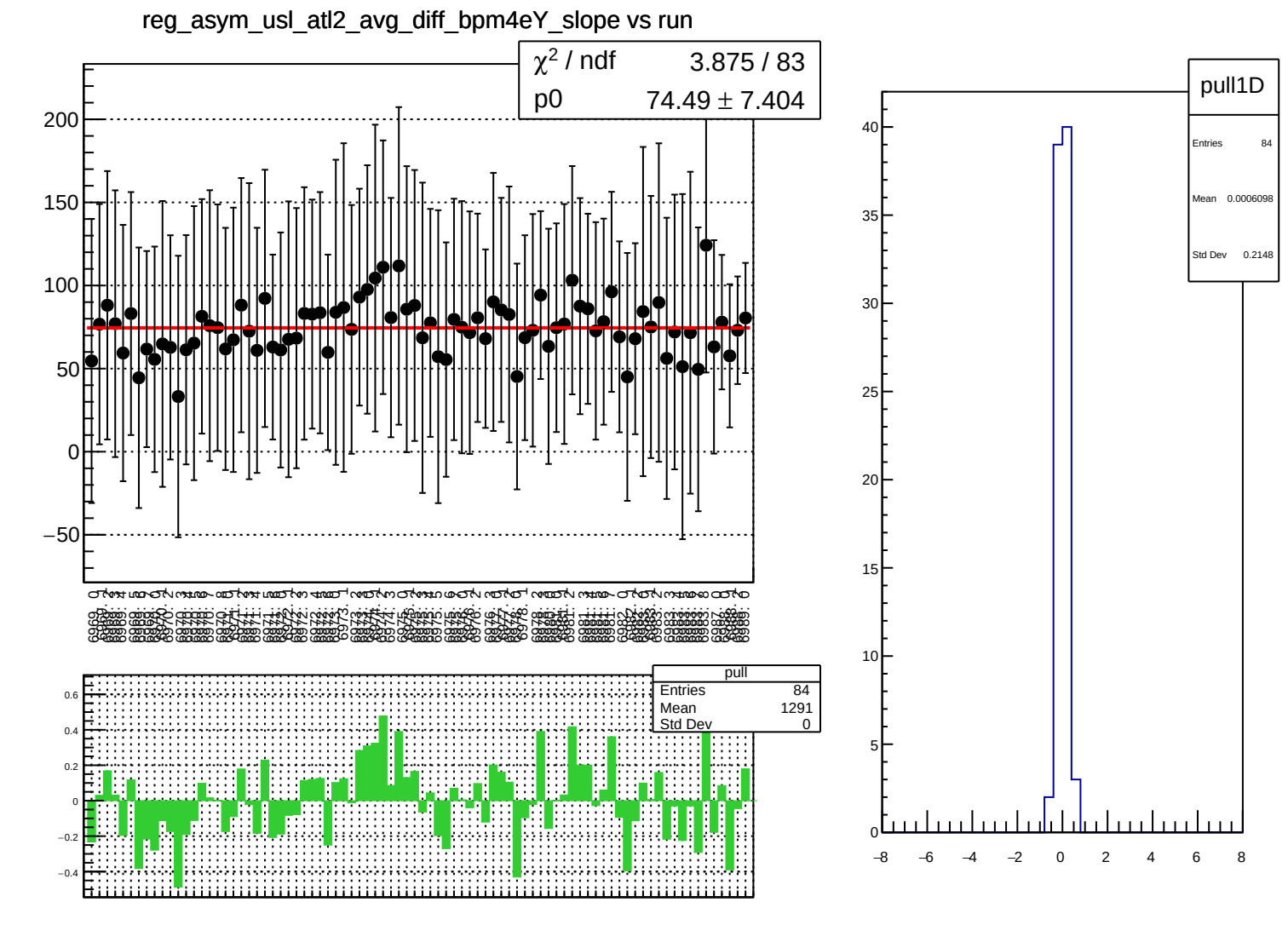

pull1D
Entries 84
Mean −0.03298
Std Dev 0.3095

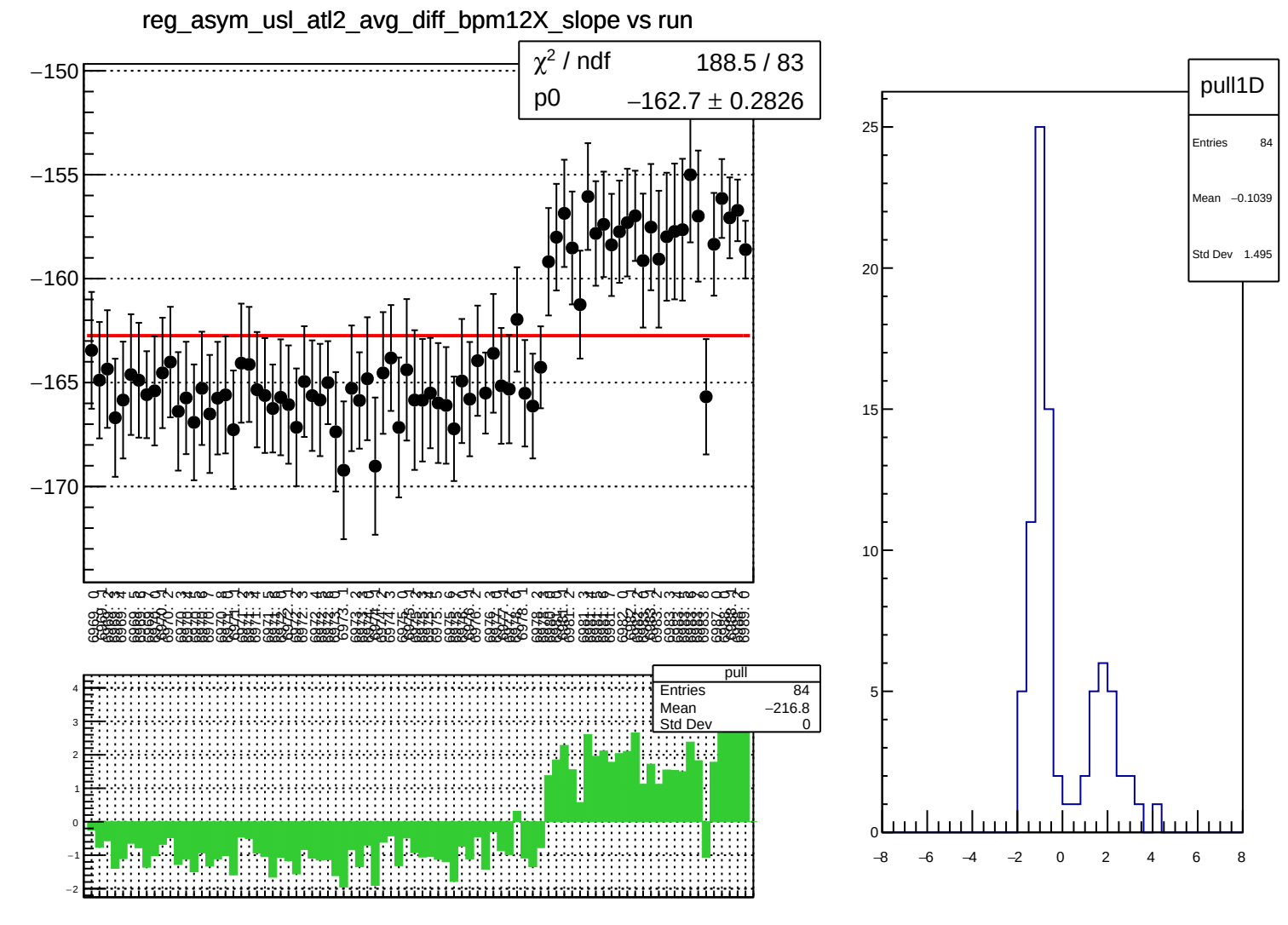

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.911 / 83
p0 7.41 ± 6.47
100
50
0
−50
−100
pull
Entries 84
Mean −496.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

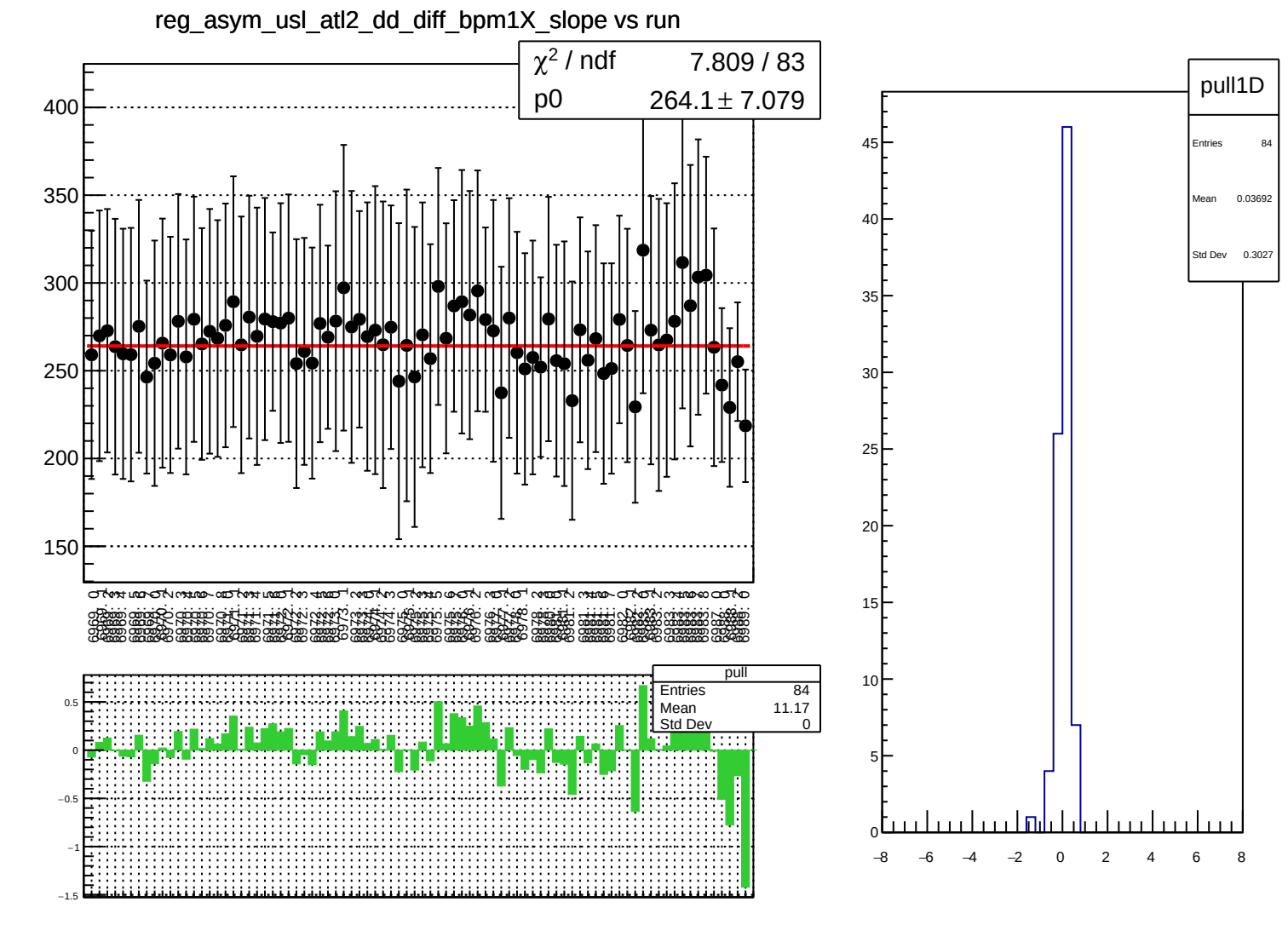

pull1D
Entries 84
Mean 0.001879
Std Dev 0.2158
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

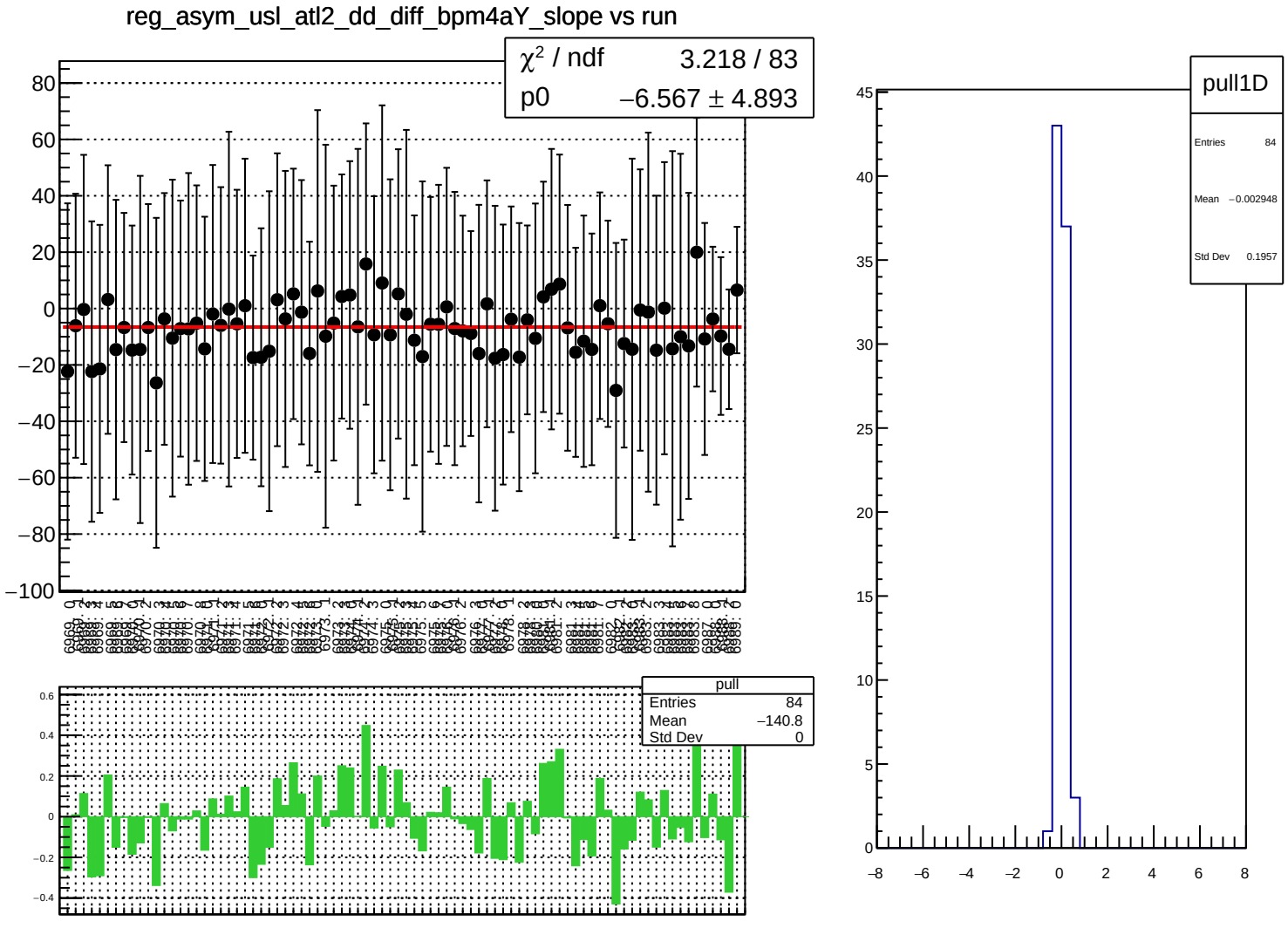

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.87 / 83
p0 260.9 ± 8.575
pull
Entries 84
Mean −31.9
Std Dev 0

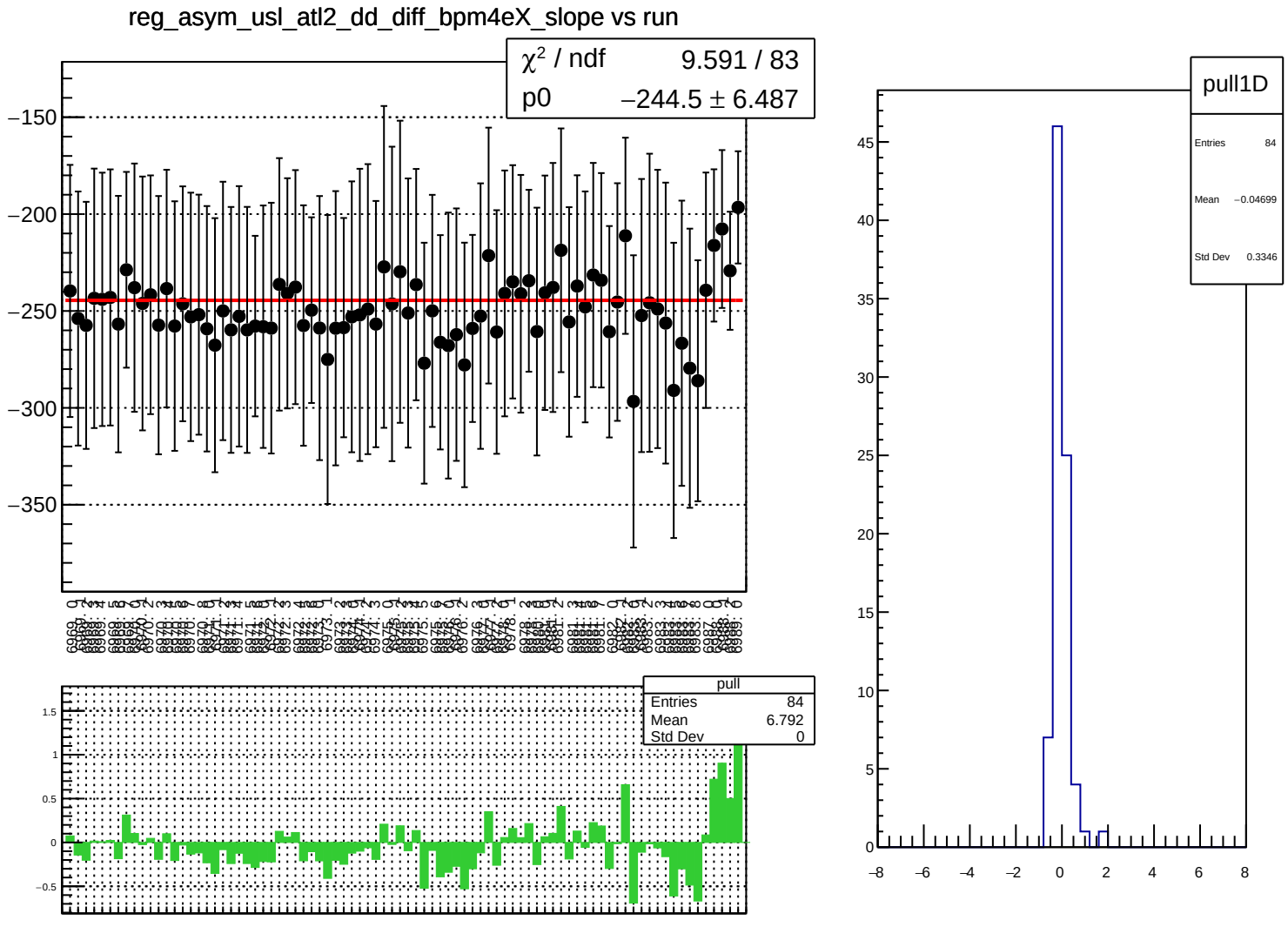

pull1D
Entries 84
Mean 0.04206
Std Dev 0.3402

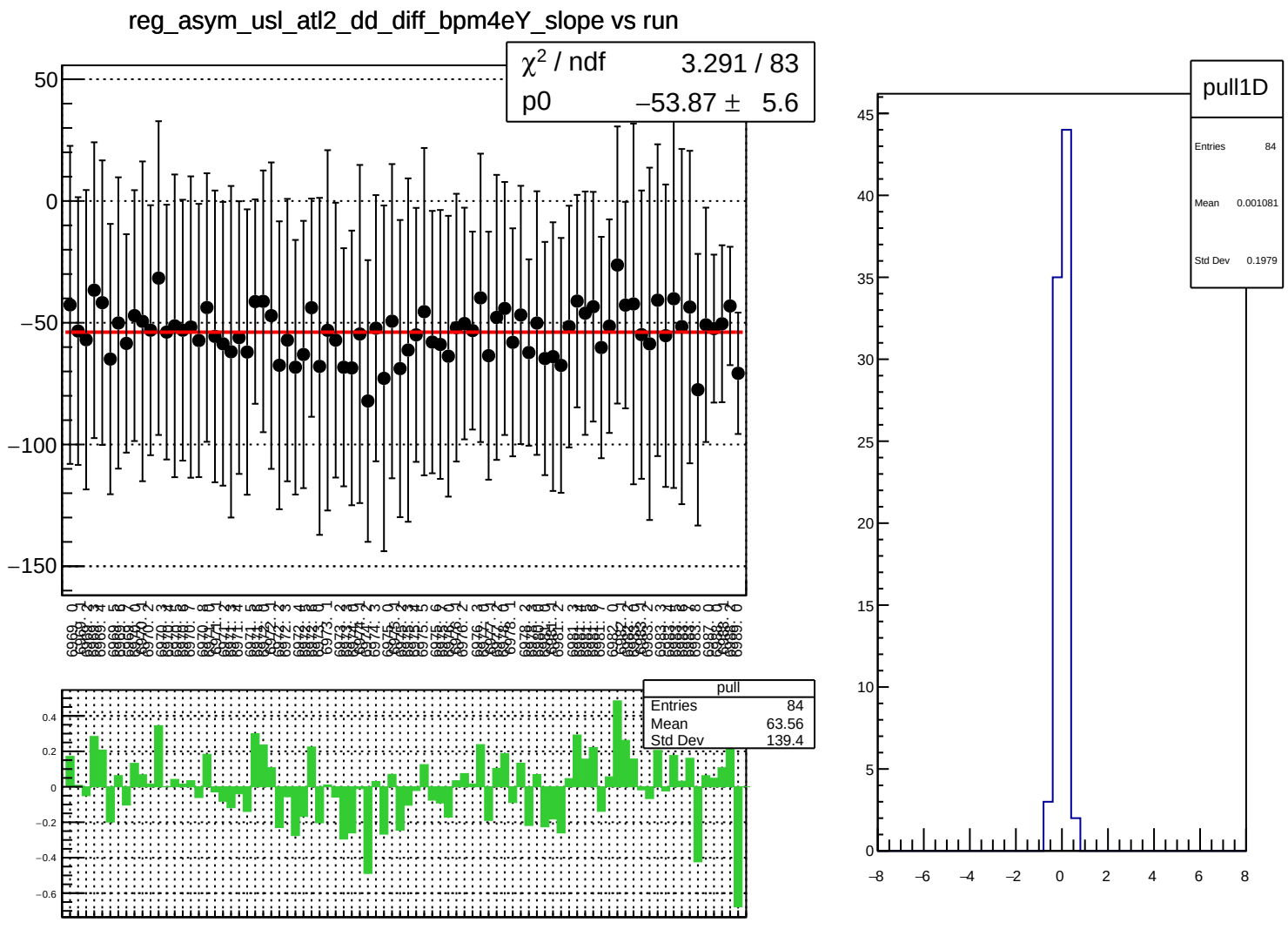

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.875 / 83
p0 74.49 ± 7.404
pull
Entries 84
Mean 1291
Std Dev 0
pull1D
Entries 84
Mean 0.0006098
Std Dev 0.2148

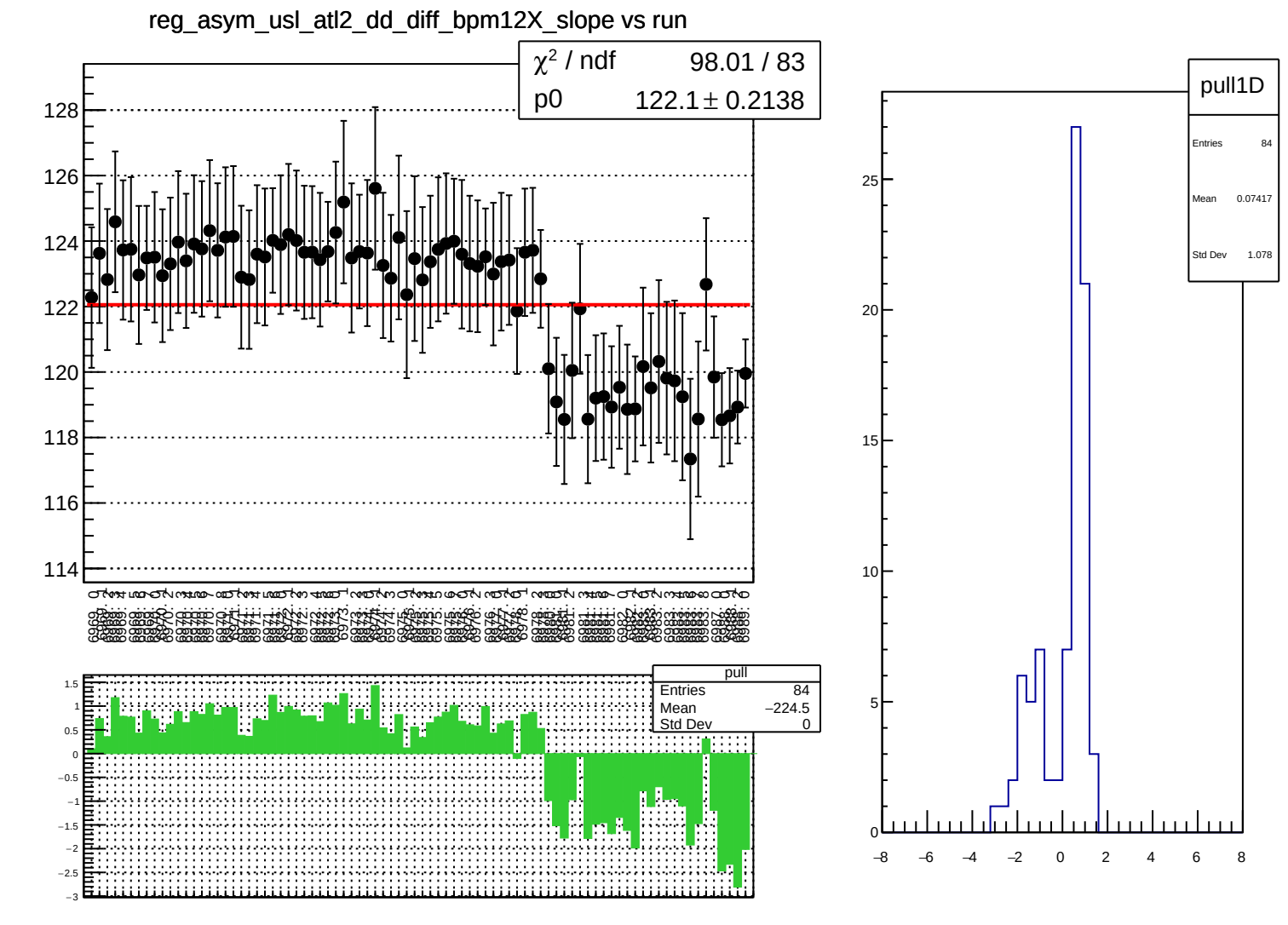

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 188.5 / 83
p0 −162.7 ± 0.2826
pull
Entries 84
Mean −216.8
Std Dev 0
pull1D
Entries 84
Mean −0.1039
Std Dev 1.495

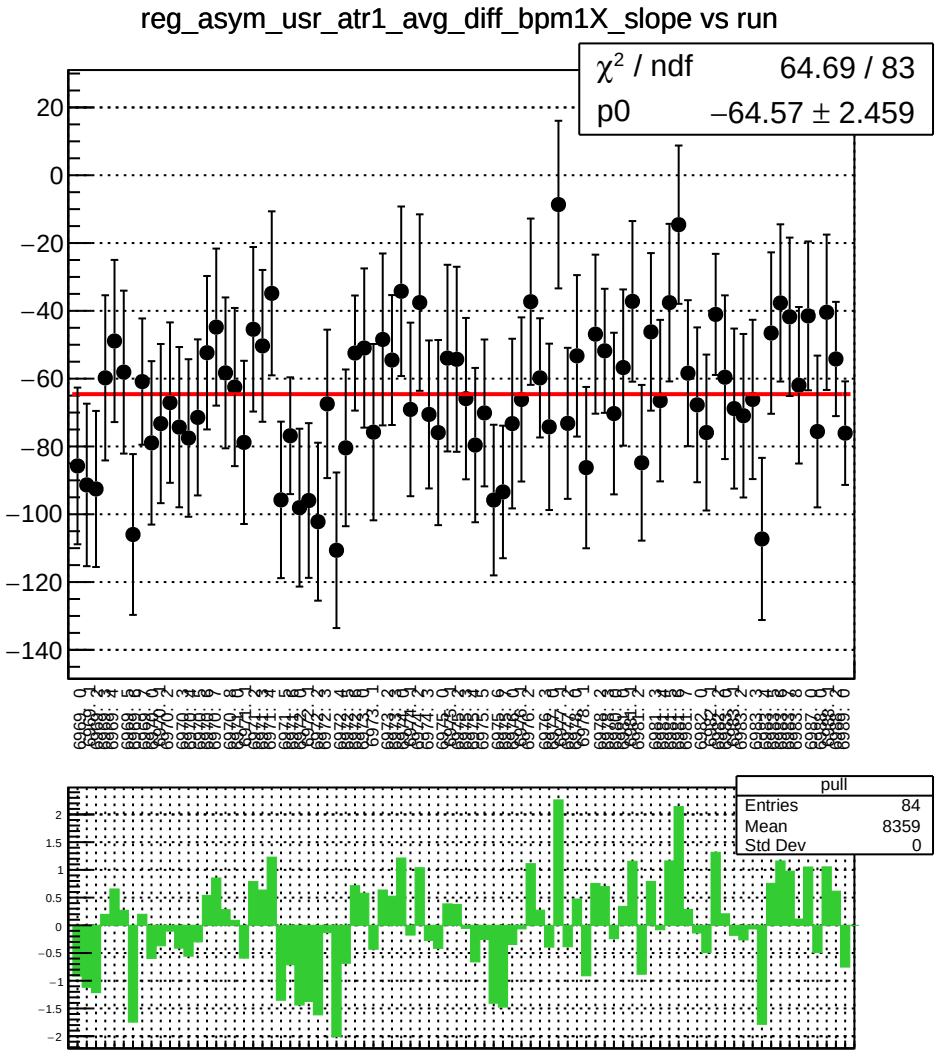

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 7.809 / 83
p0 264.1 ± 7.079
pull
Entries 84
Mean 11.17
Std Dev 0
pull1D
Entries 84
Mean 0.03692
Std Dev 0.3027

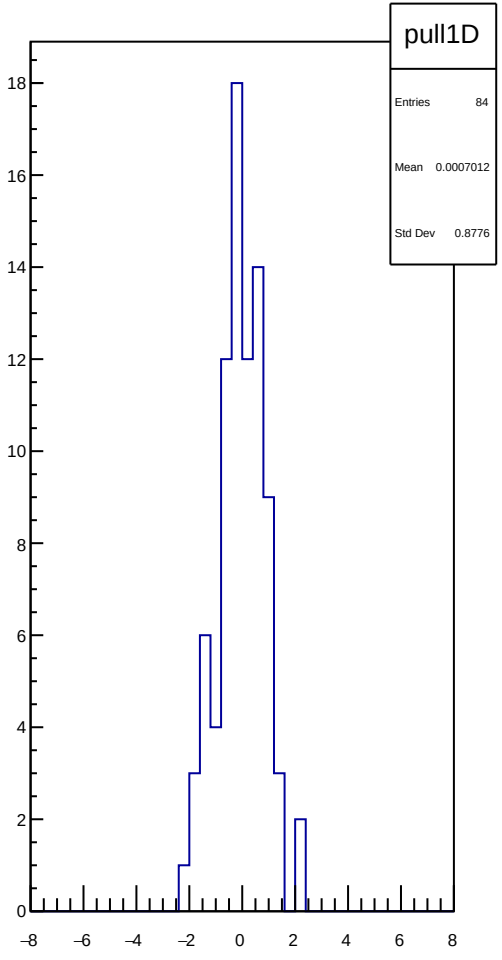

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.218 / 83
p0 −6.567 ± 4.893
pull
Entries 84
Mean −140.8
Std Dev 0
pull1D
Entries 84
Mean −0.002948
Std Dev 0.1957

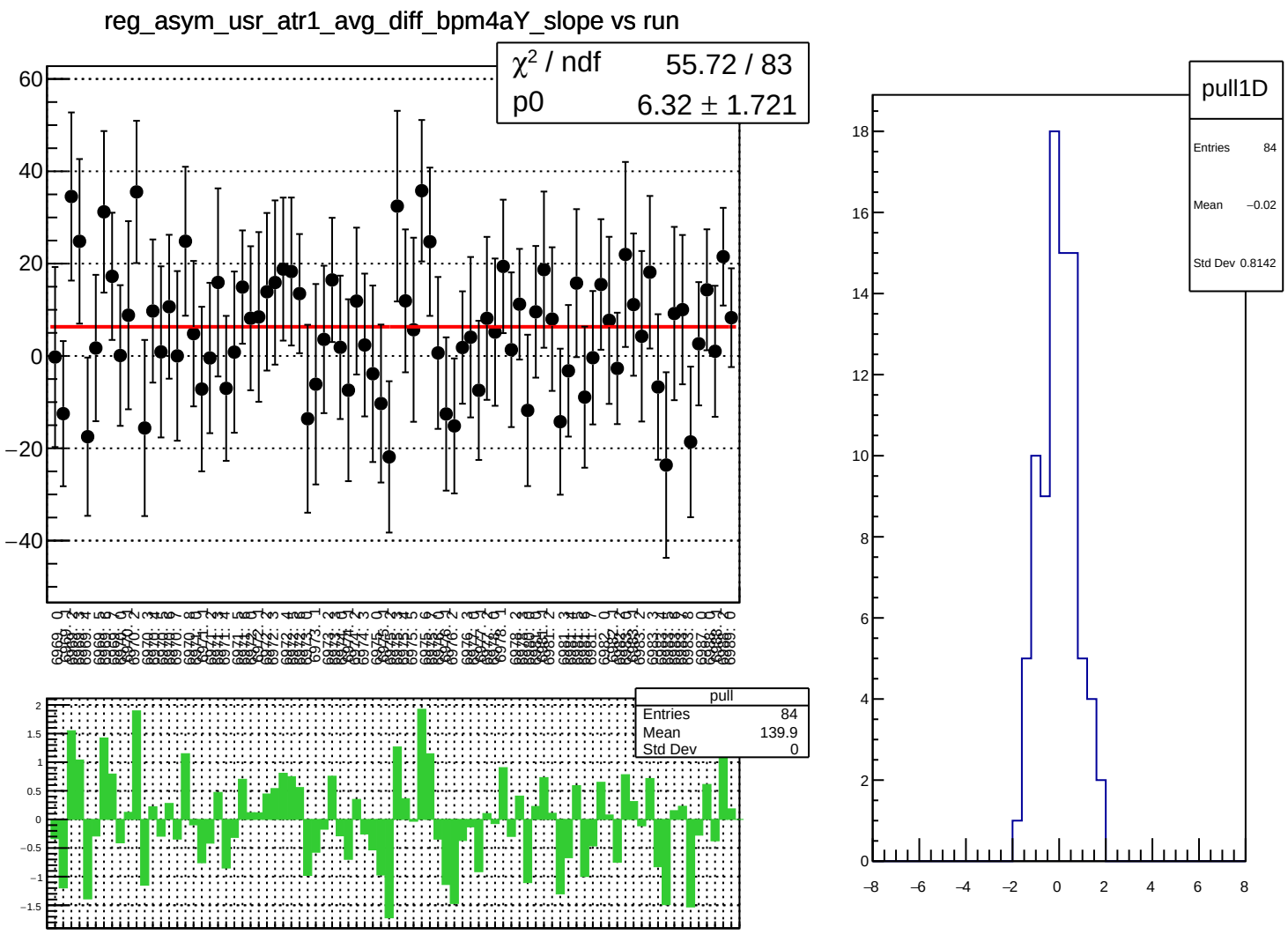

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.591 / 83
p0 −244.5 ± 6.487
−150
−200
−250
−300
−350
pull
Entries 84
Mean 6.792
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 84
Mean −0.04699
Std Dev 0.3346
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

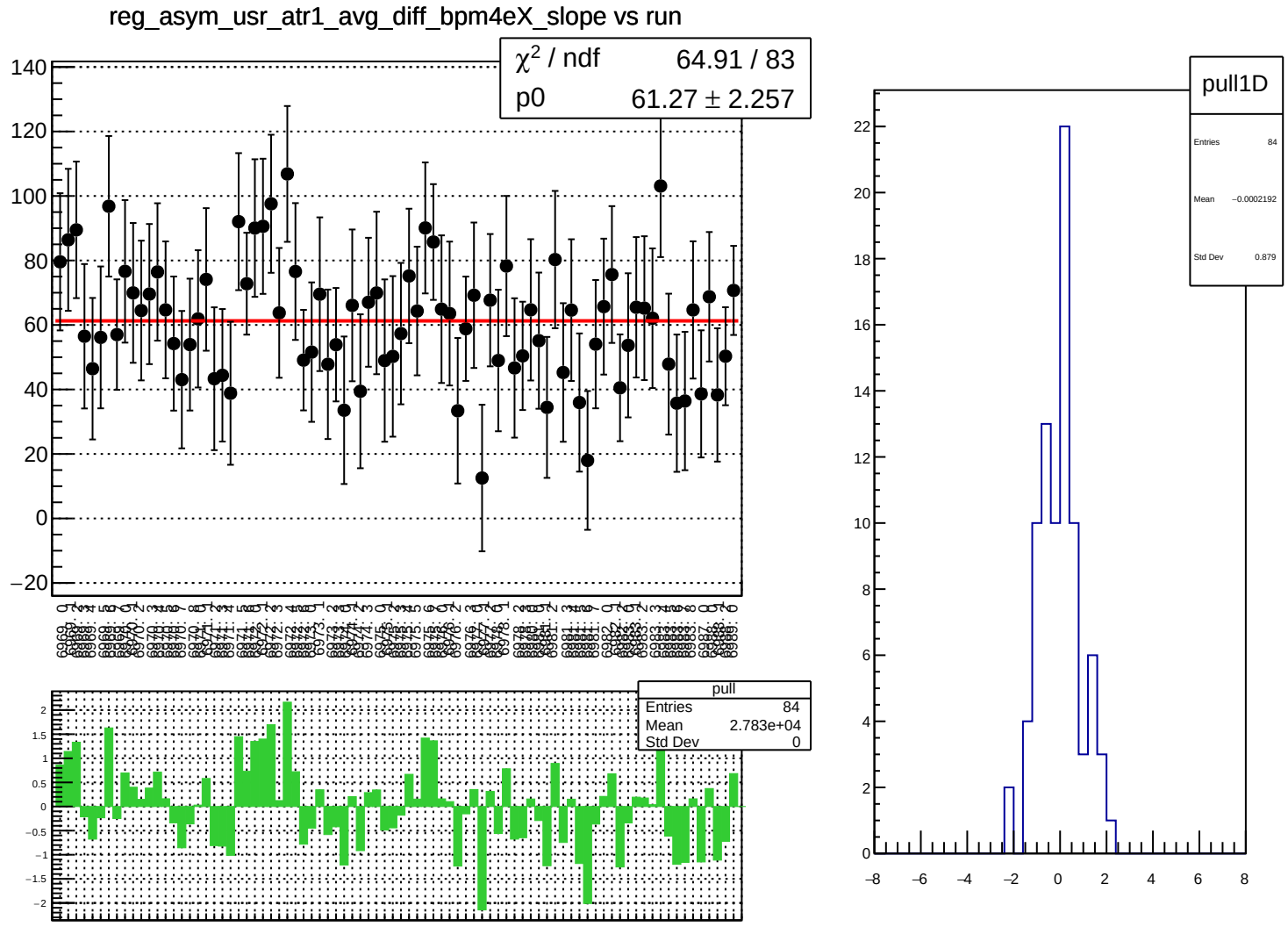

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.291 / 83
p0 −53.87 ± 5.6
pull
Entries 84
Mean 63.56
Std Dev 139.4
pull1D
Entries 84
Mean 0.001081
Std Dev 0.1979

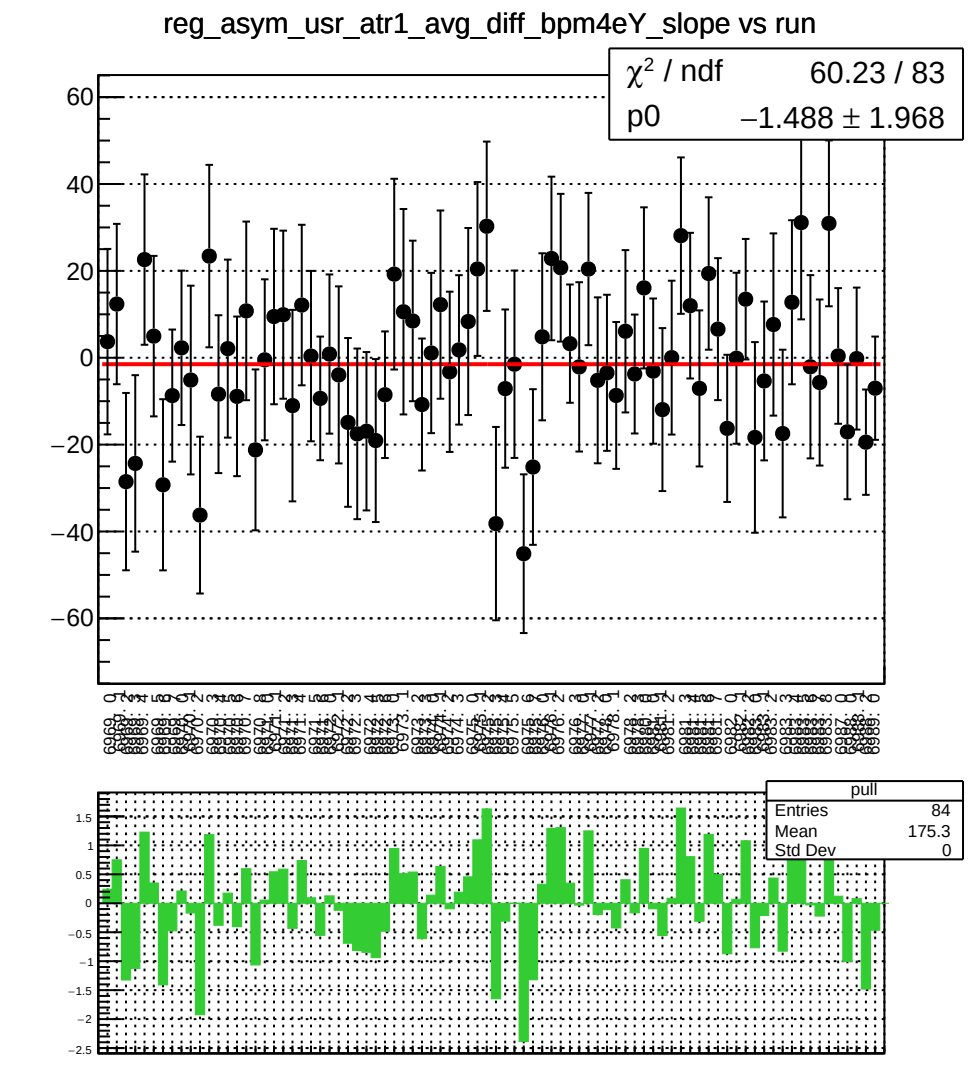

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 98.01 / 83
p0 122.1 ± 0.2138
128
126
124
122
120
118
116
114
pull
Entries 84
Mean −224.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 84
Mean 0.07417
Std Dev 1.078
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

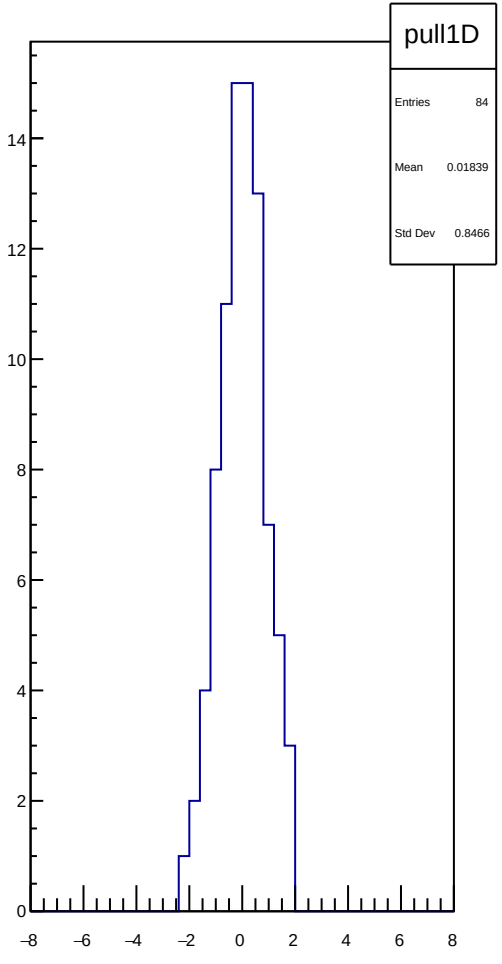

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 64.69 / 83
p0 −64.57 ± 2.459
pull
Entries 84
Mean 8359
Std Dev 0

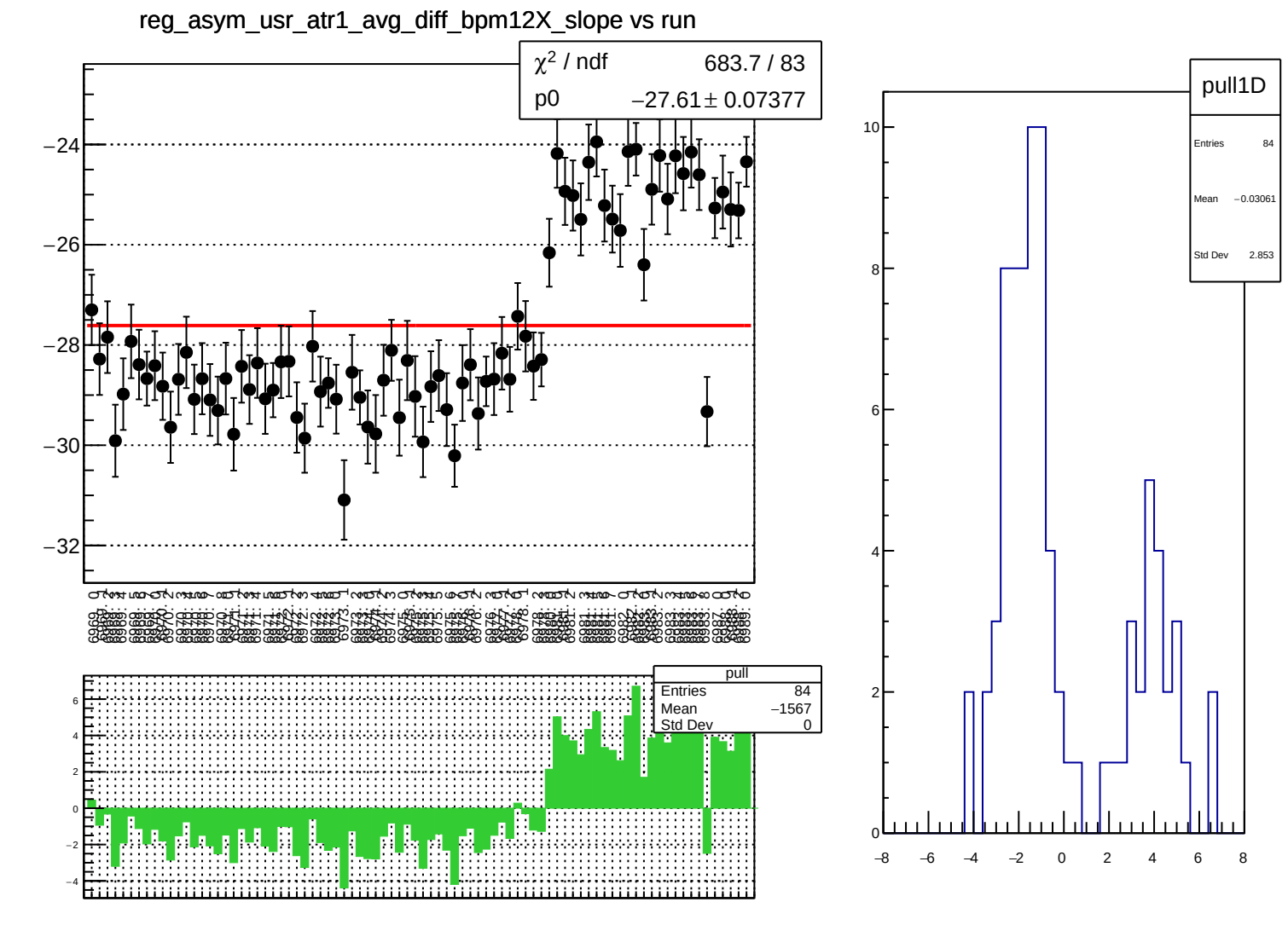

pull1D
Entries 84
Mean 0.0007012
Std Dev 0.8776

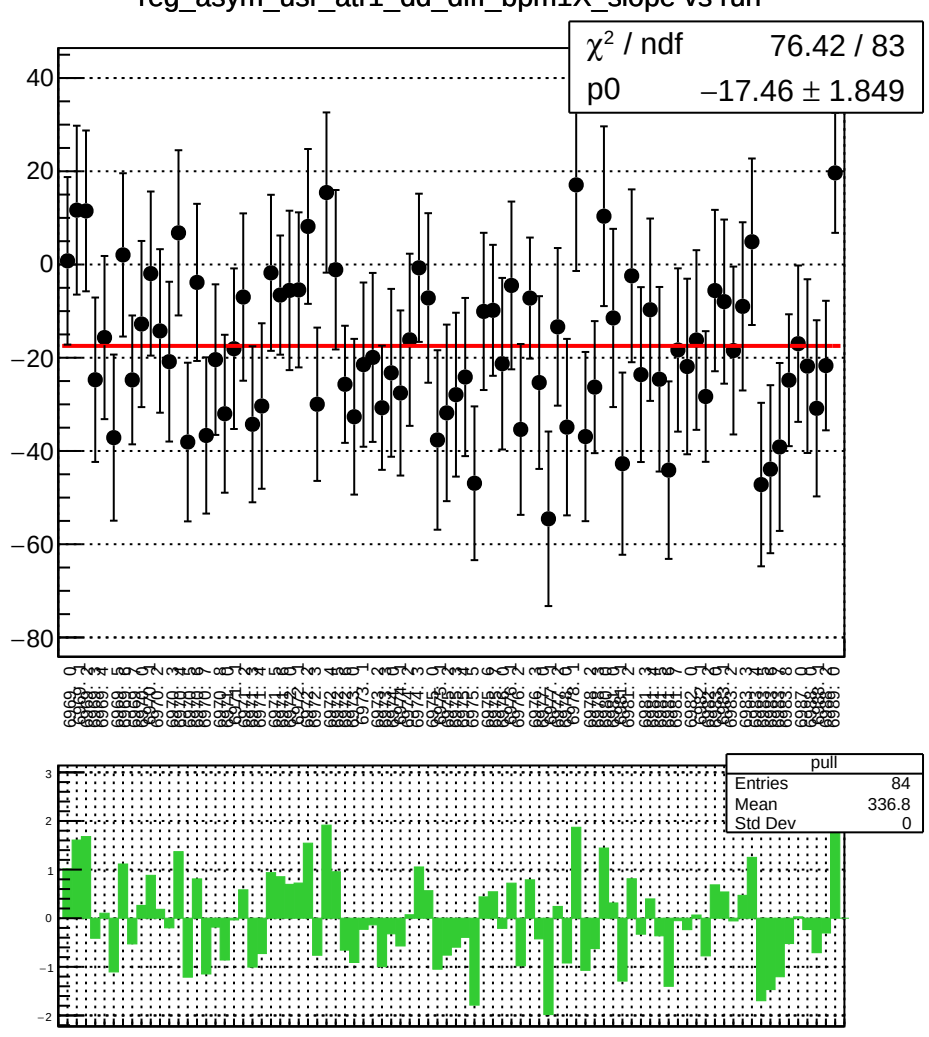

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.72 / 83
p0 6.32 ± 1.721
pull
Entries 84
Mean 139.9
Std Dev 0
pull1D
Entries 84
Mean −0.02
Std Dev 0.8142

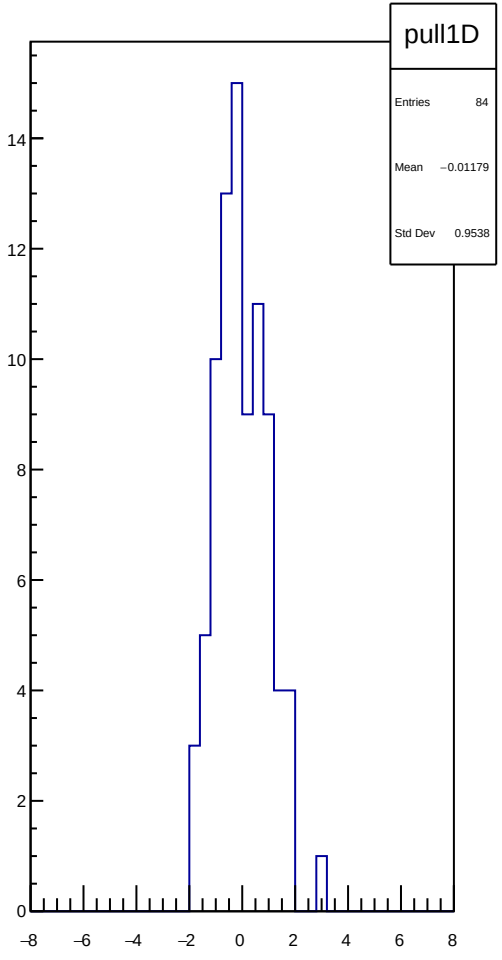

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.91 / 83
p0 61.27 ± 2.257
pull
Entries 84
Mean 2.783e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0002192
Std Dev 0.879

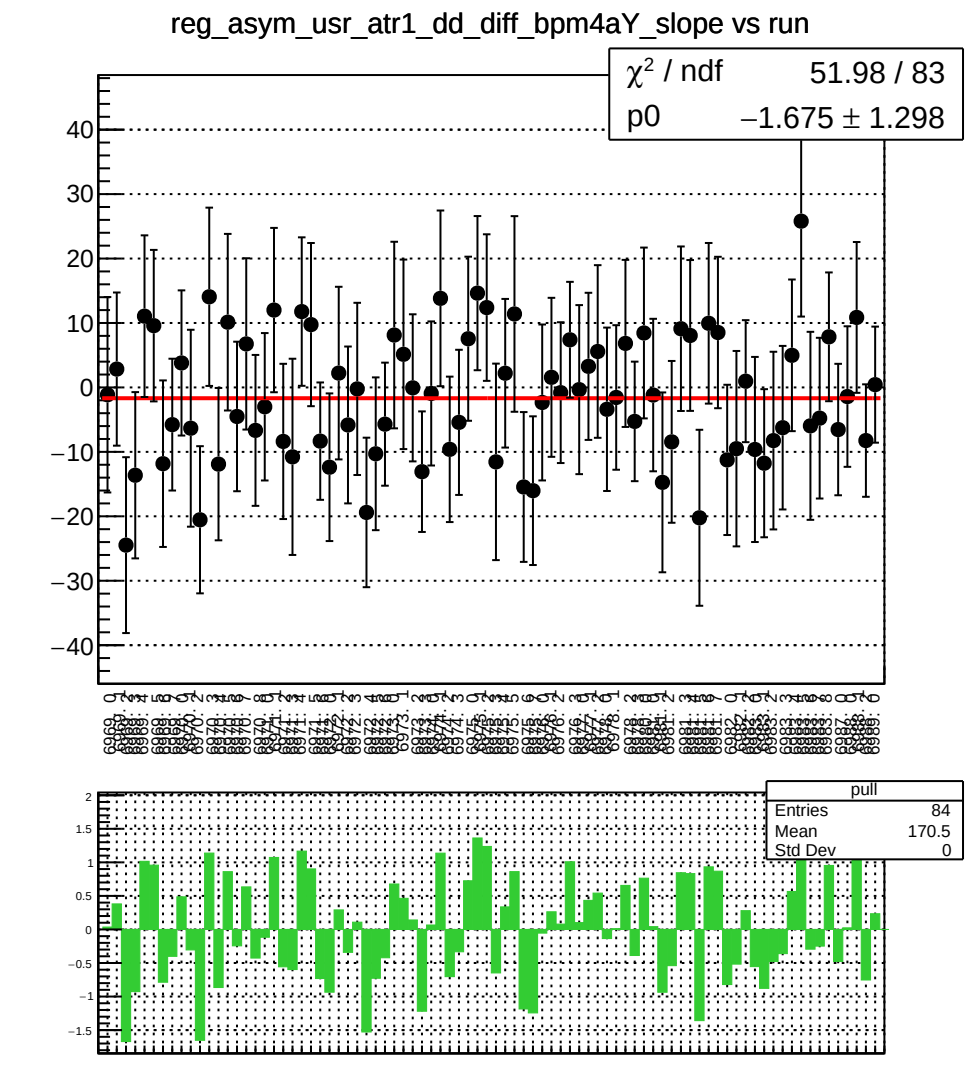

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 60.23 / 83
p0 −1.488 ± 1.968
pull
Entries 84
Mean 175.3
Std Dev 0

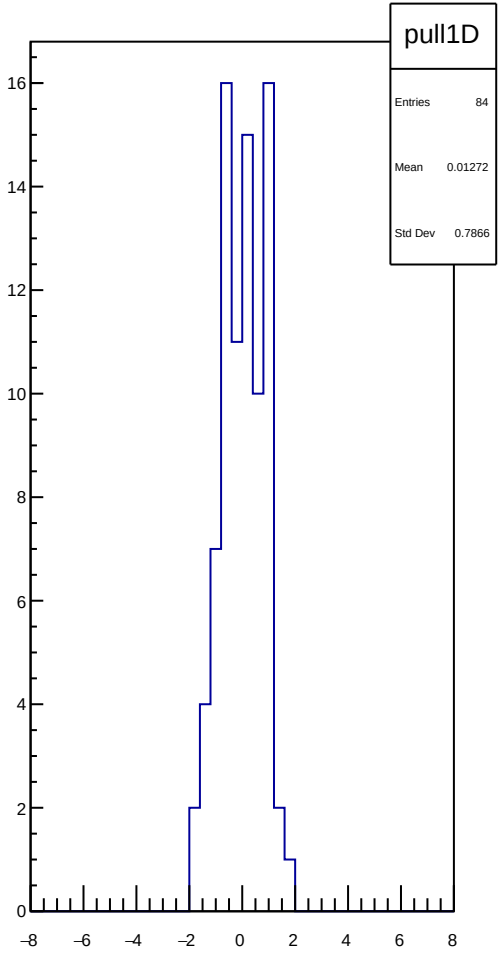

pull1D
Entries 84
Mean 0.01839
Std Dev 0.8466

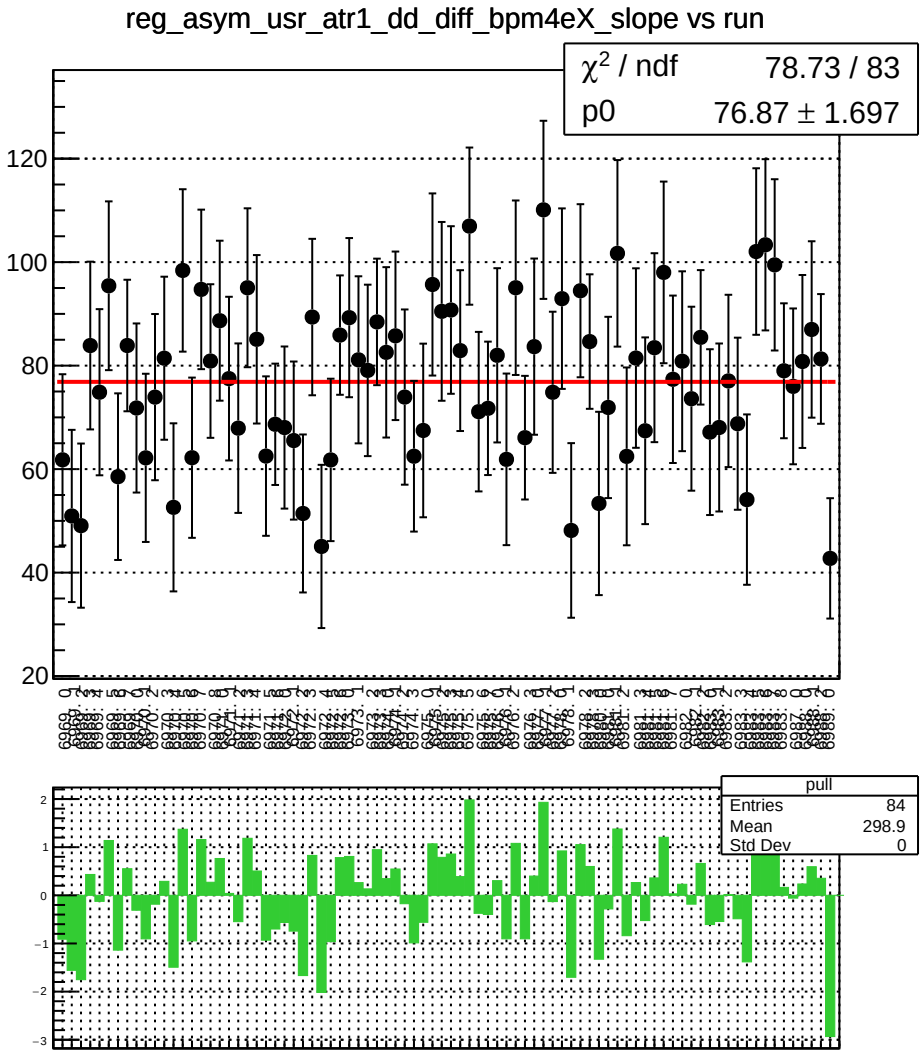

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 683.7 / 83
p0 −27.61 ± 0.07377
−24
−26
−28
−30
−32
pull
Entries 84
Mean −1567
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 84
Mean −0.03061
Std Dev 2.853
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

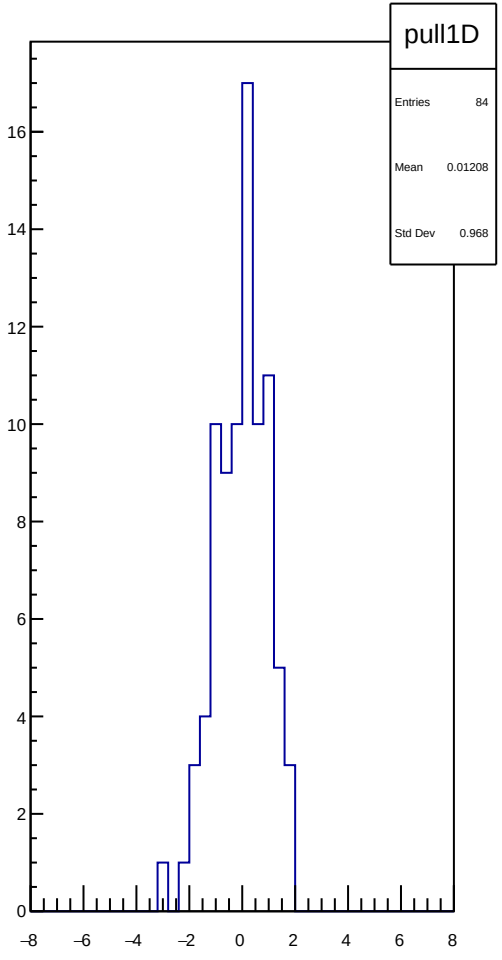

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 76.42 / 83
p0 −17.46 ± 1.849
pull
Entries 84
Mean 336.8
Std Dev 0

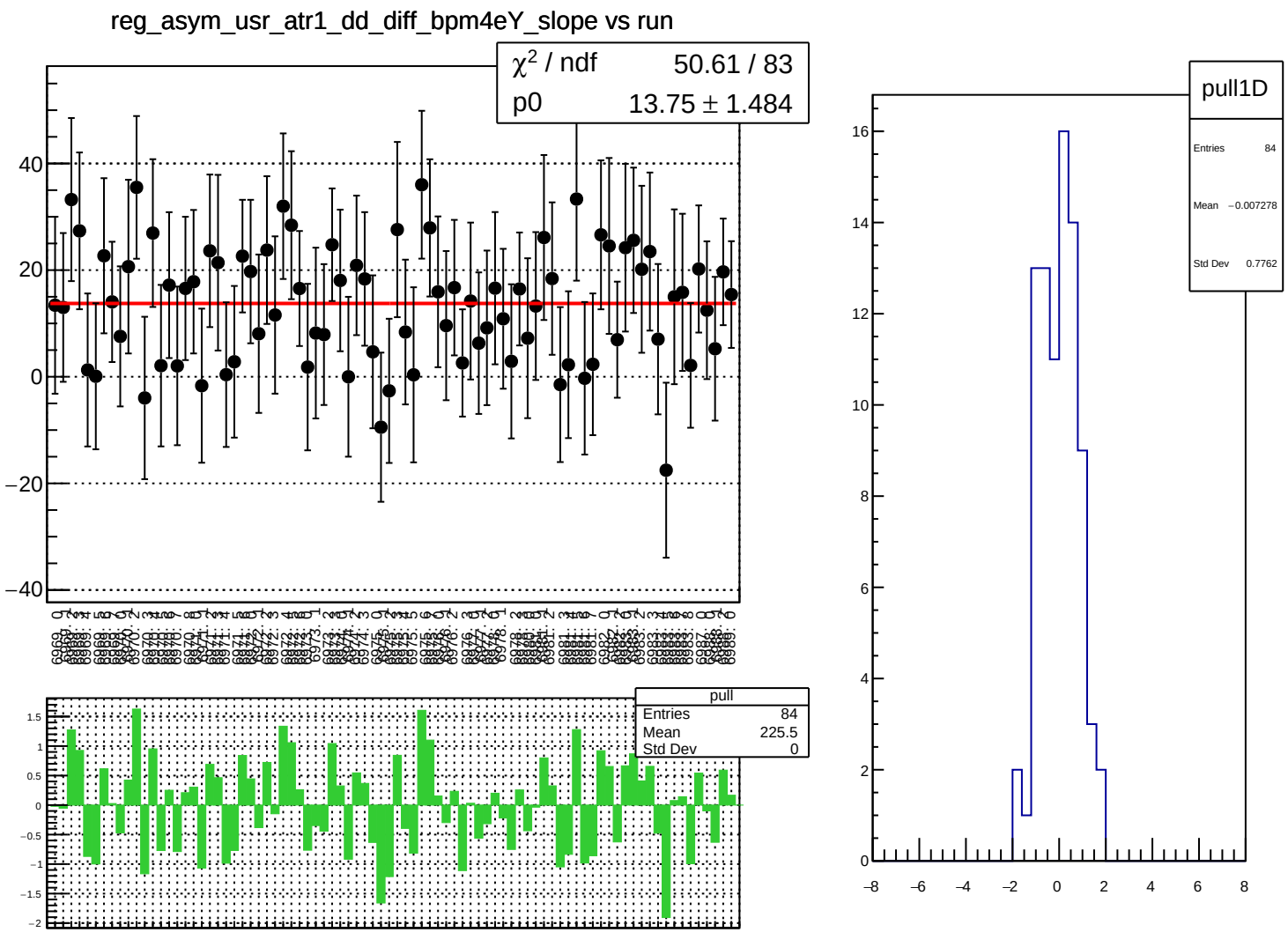

pull1D
Entries 84
Mean −0.01179
Std Dev 0.9538

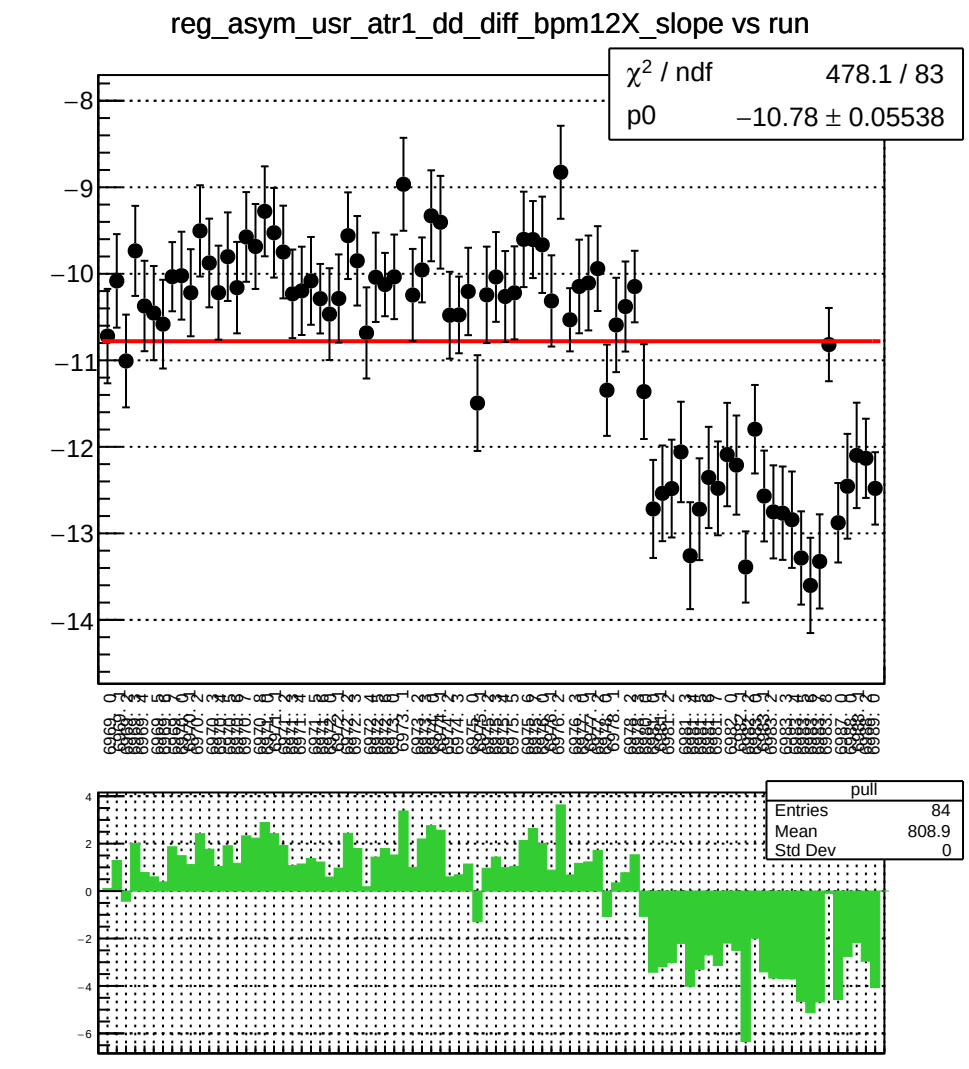

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.98 / 83
p0 −1.675 ± 1.298
pull
Entries 84
Mean 170.5
Std Dev 0

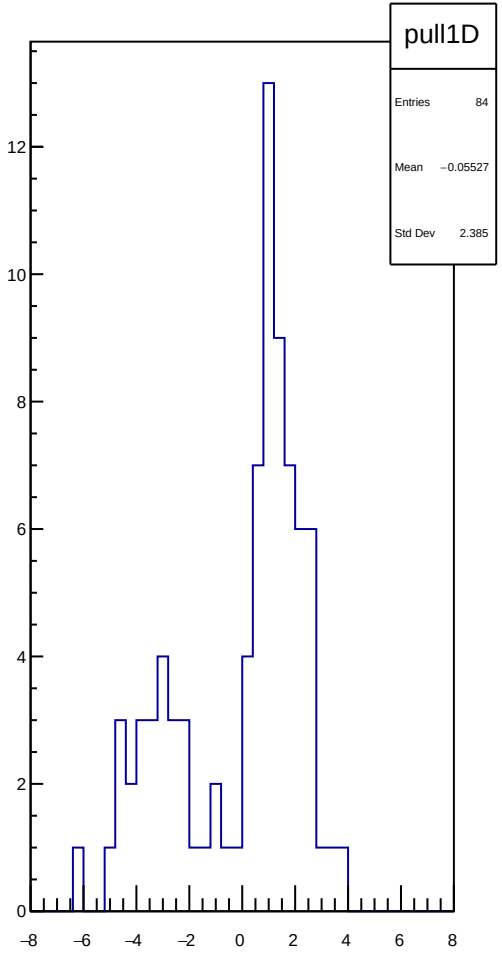

pull1D
Entries 84
Mean 0.01272
Std Dev 0.7866

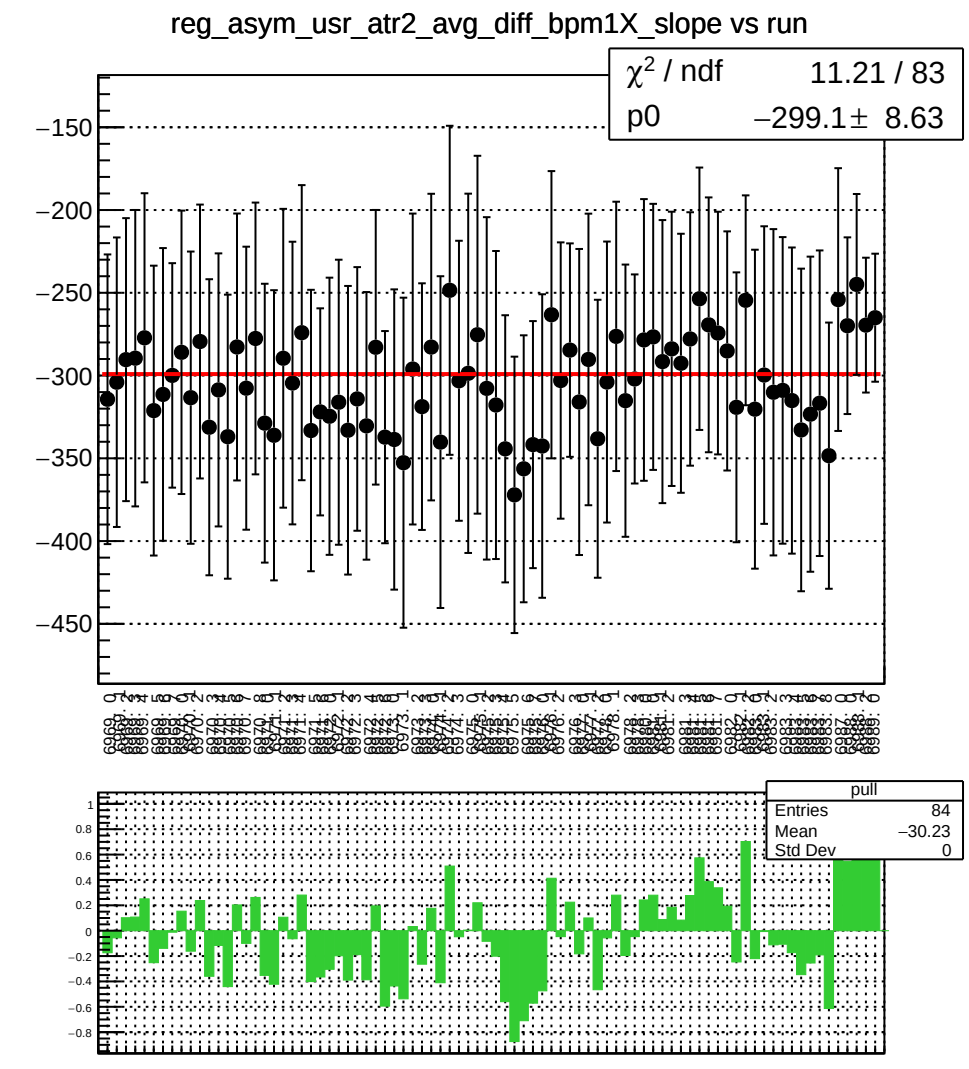

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.73 / 83
p0 76.87 ± 1.697
pull
Entries 84
Mean 298.9
Std Dev 0

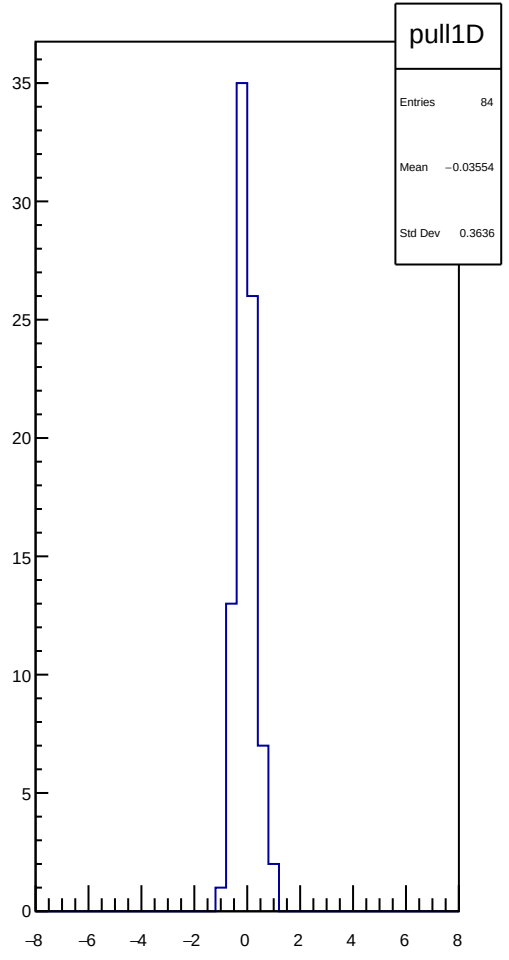

pull1D
Entries 84
Mean 0.01208
Std Dev 0.968

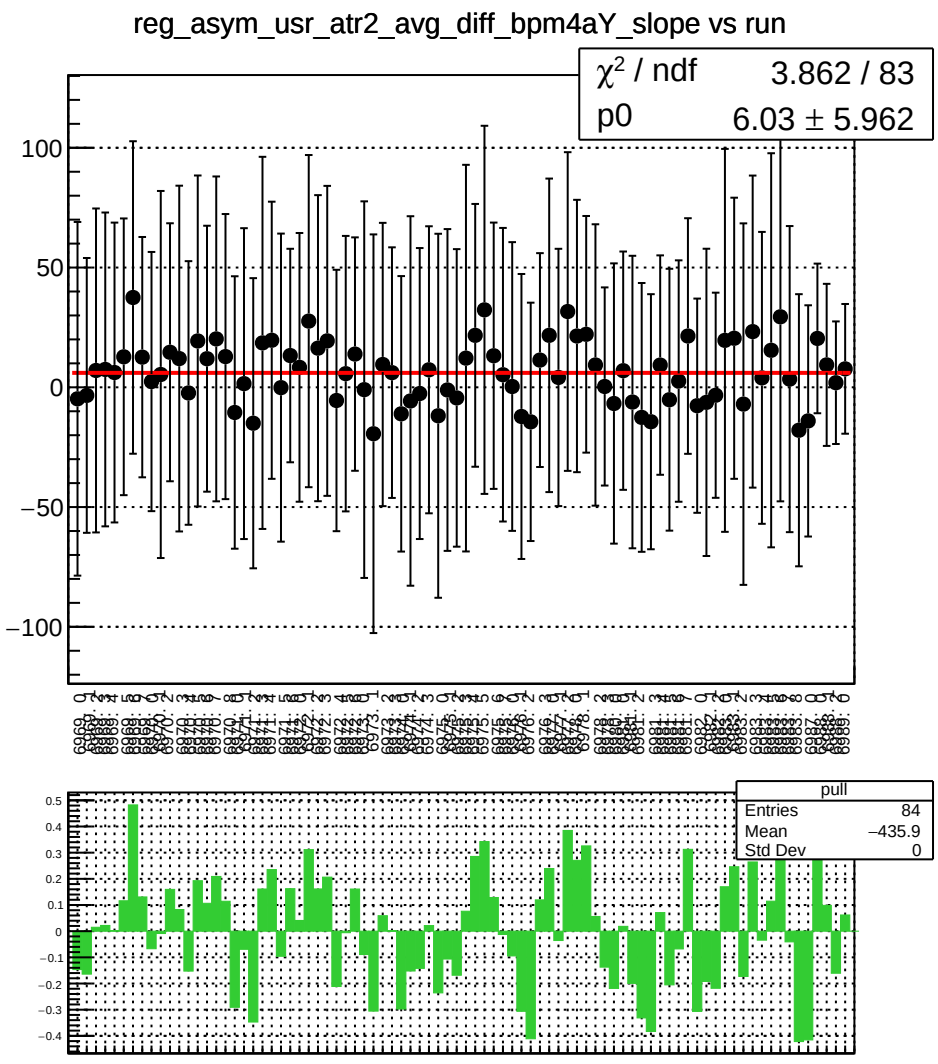

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.61 / 83
p0 13.75 ± 1.484
pull
Entries 84
Mean 225.5
Std Dev 0
pull1D
Entries 84
Mean −0.007278
Std Dev 0.7762

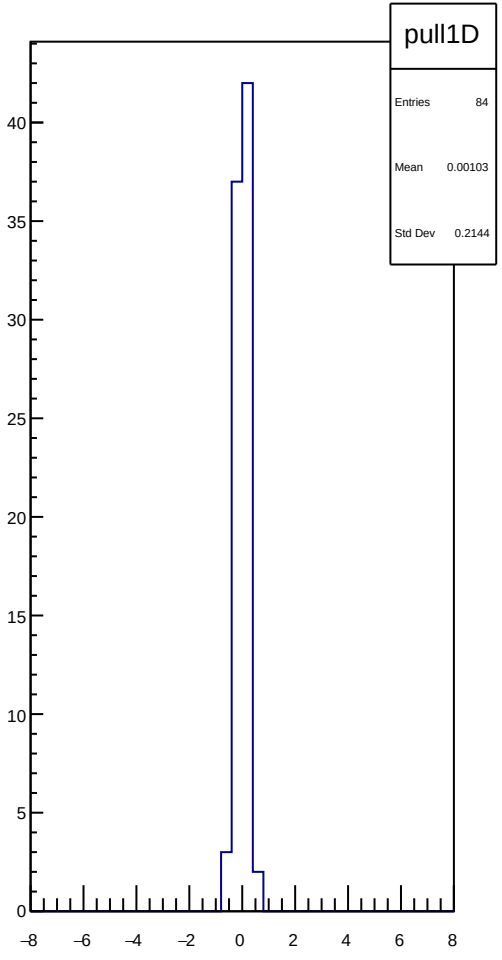

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 478.1 / 83
p0 −10.78 ± 0.05538
pull
Entries 84
Mean 808.9
Std Dev 0

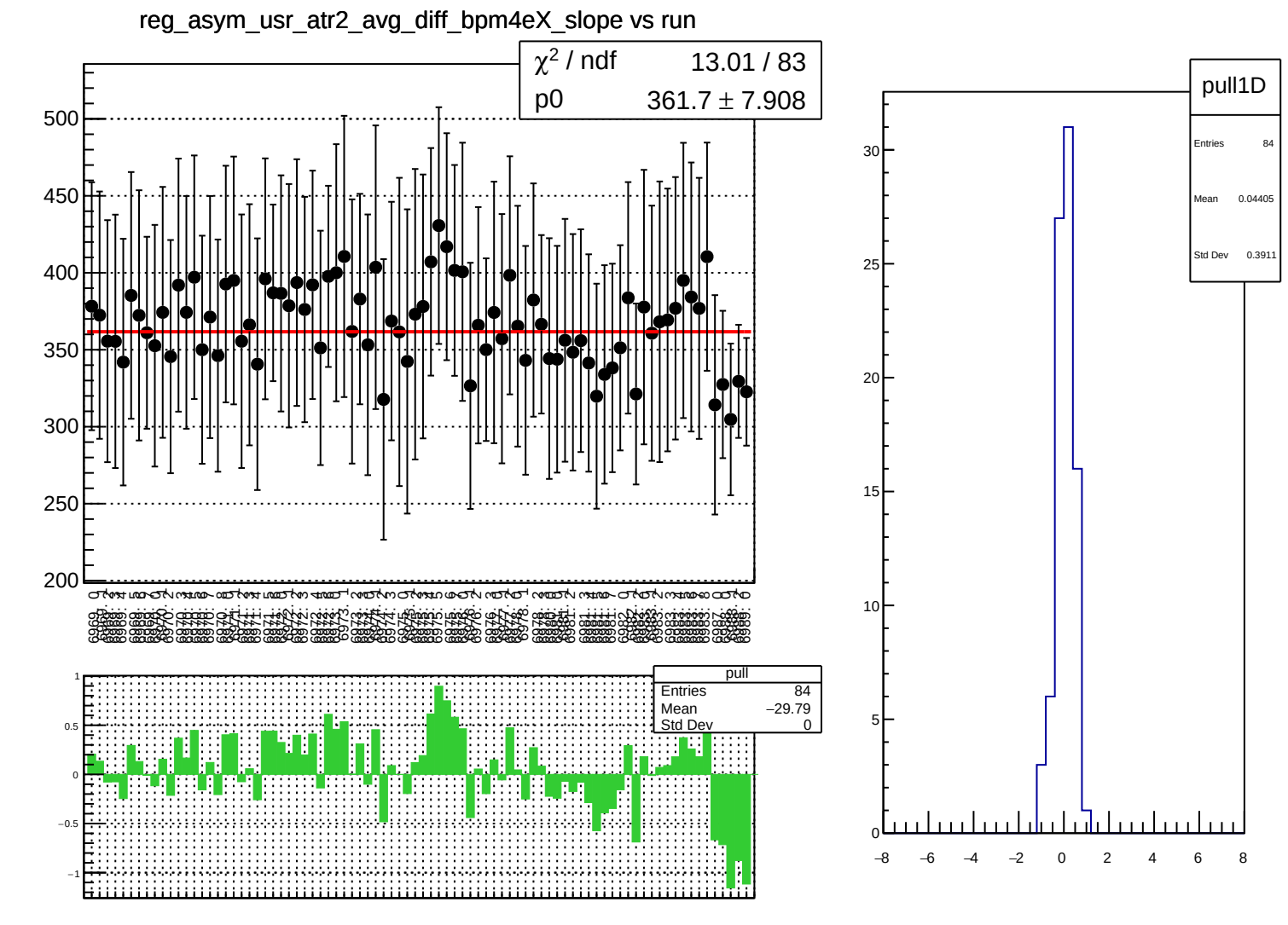

pull1D
Entries 84
Mean −0.05527
Std Dev 2.385

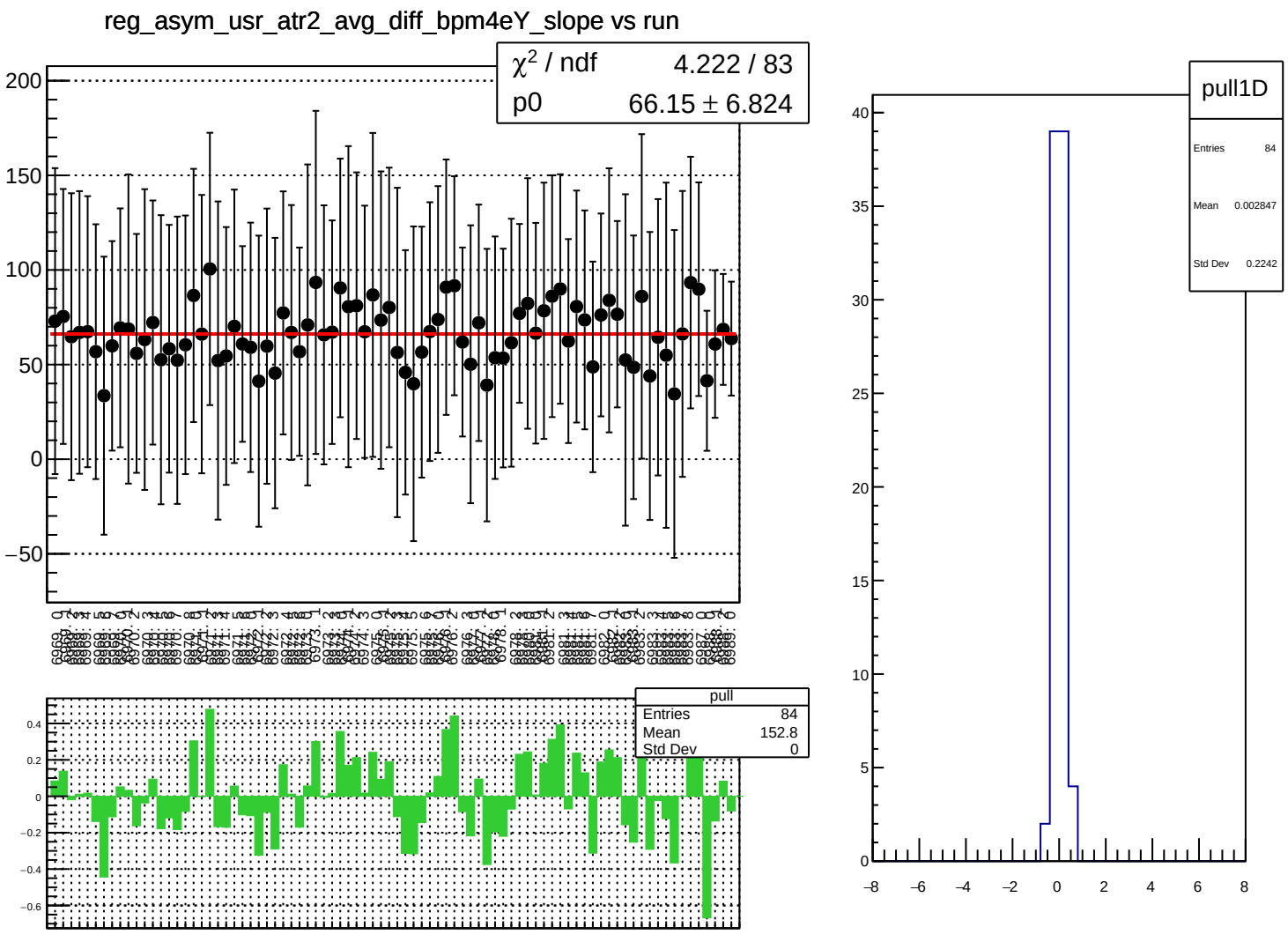

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.21 / 83
p0 −299.1± 8.63
−150
−200
−250
−300
−350
−400
−450
pull
Entries 84
Mean −30.23
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

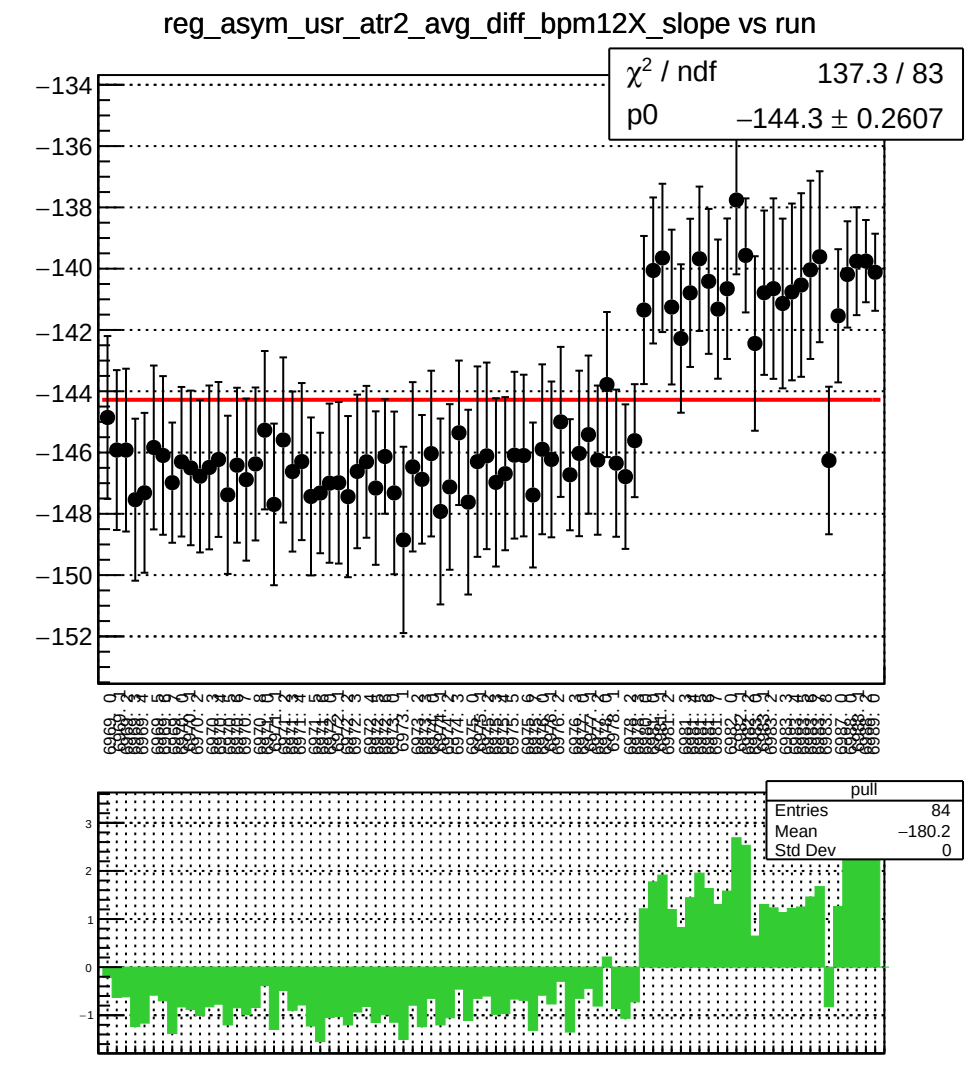

pull1D
Entries 84
Mean −0.03554
Std Dev 0.3636
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

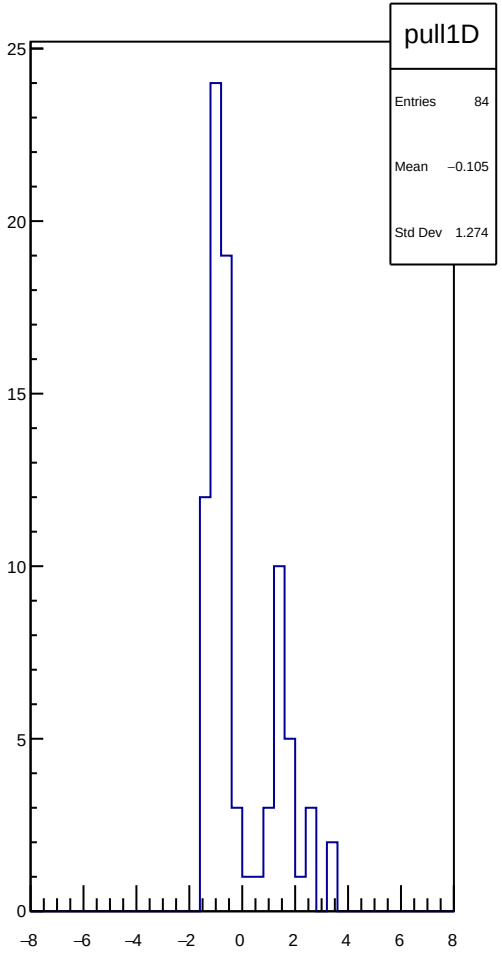

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.862 / 83
p0 6.03 ± 5.962
pull
Entries 84
Mean −435.9
Std Dev 0

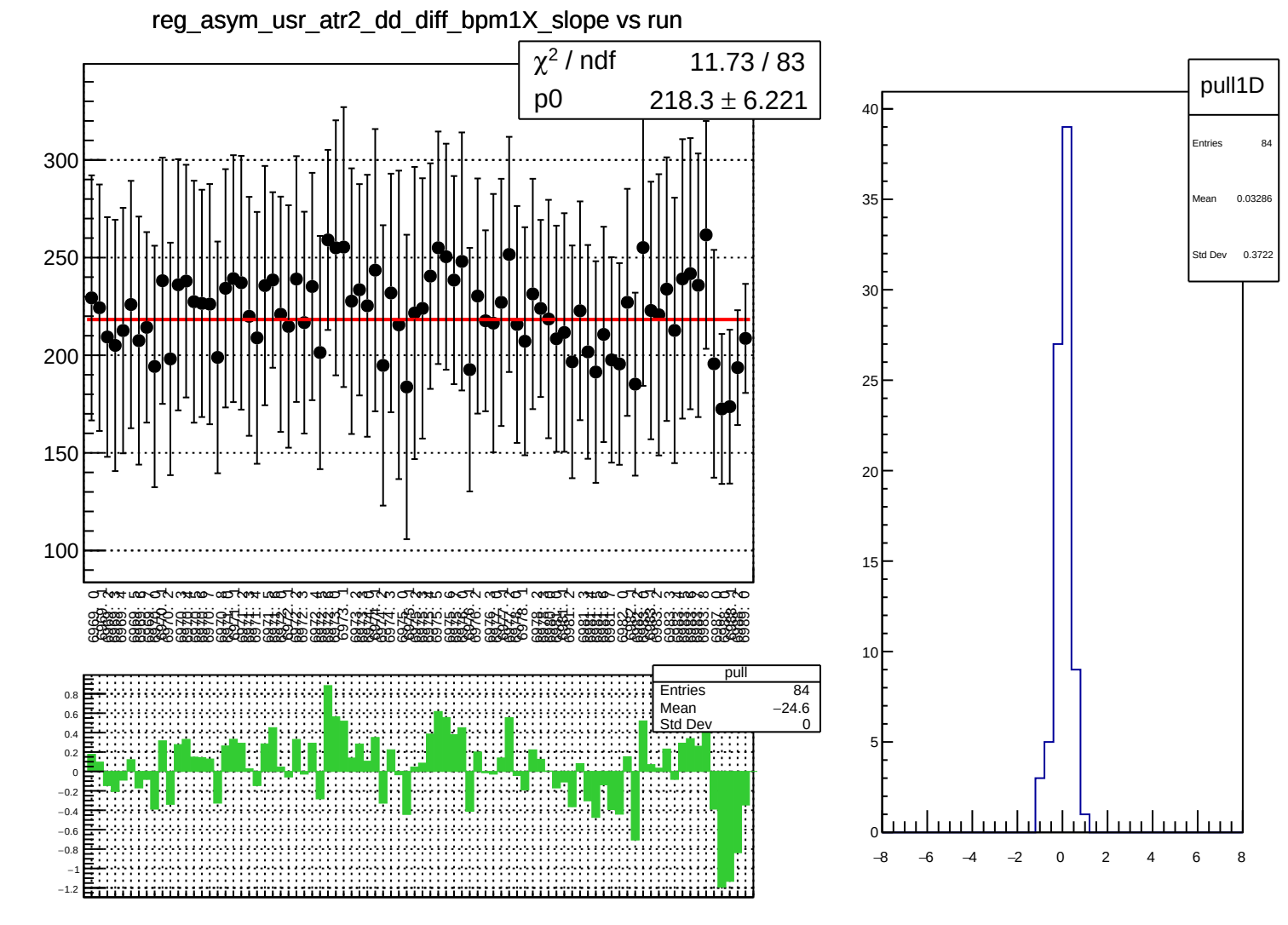

pull1D
Entries 84
Mean 0.00103
Std Dev 0.2144

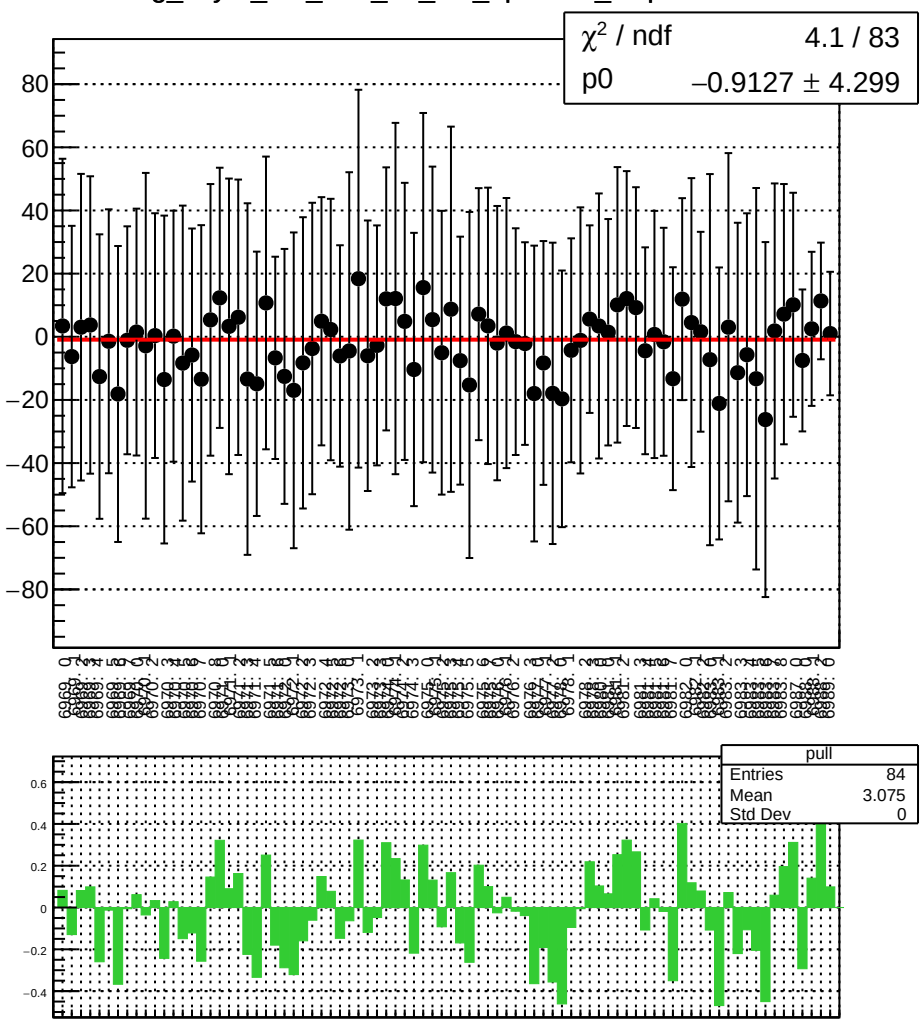

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.01 / 83
p0 361.7 ± 7.908
pull
Entries 84
Mean −29.79
Std Dev 0
pull1D
Entries 84
Mean 0.04405
Std Dev 0.3911

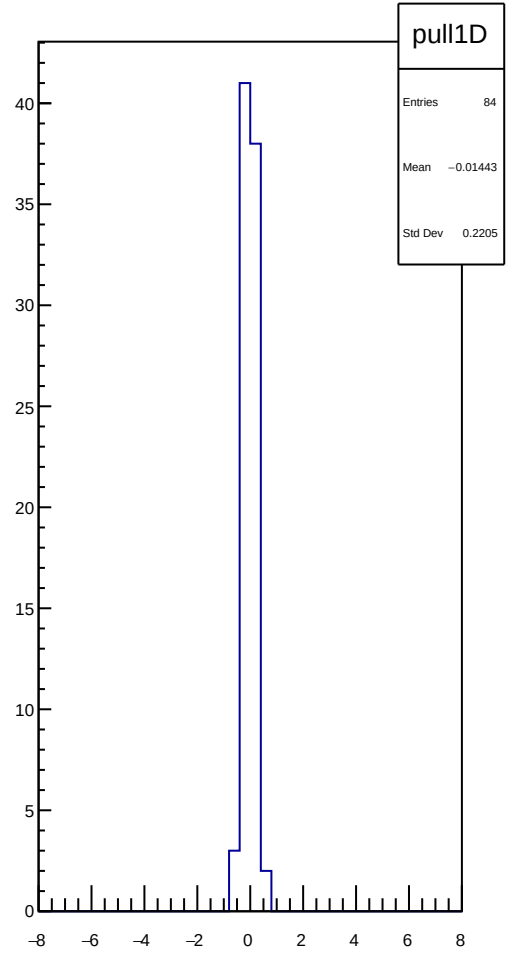

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.222 / 83
p0 66.15 ± 6.824
200
150
100
50
0
−50
pull
Entries 84
Mean 152.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 84
Mean 0.002847
Std Dev 0.2242
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

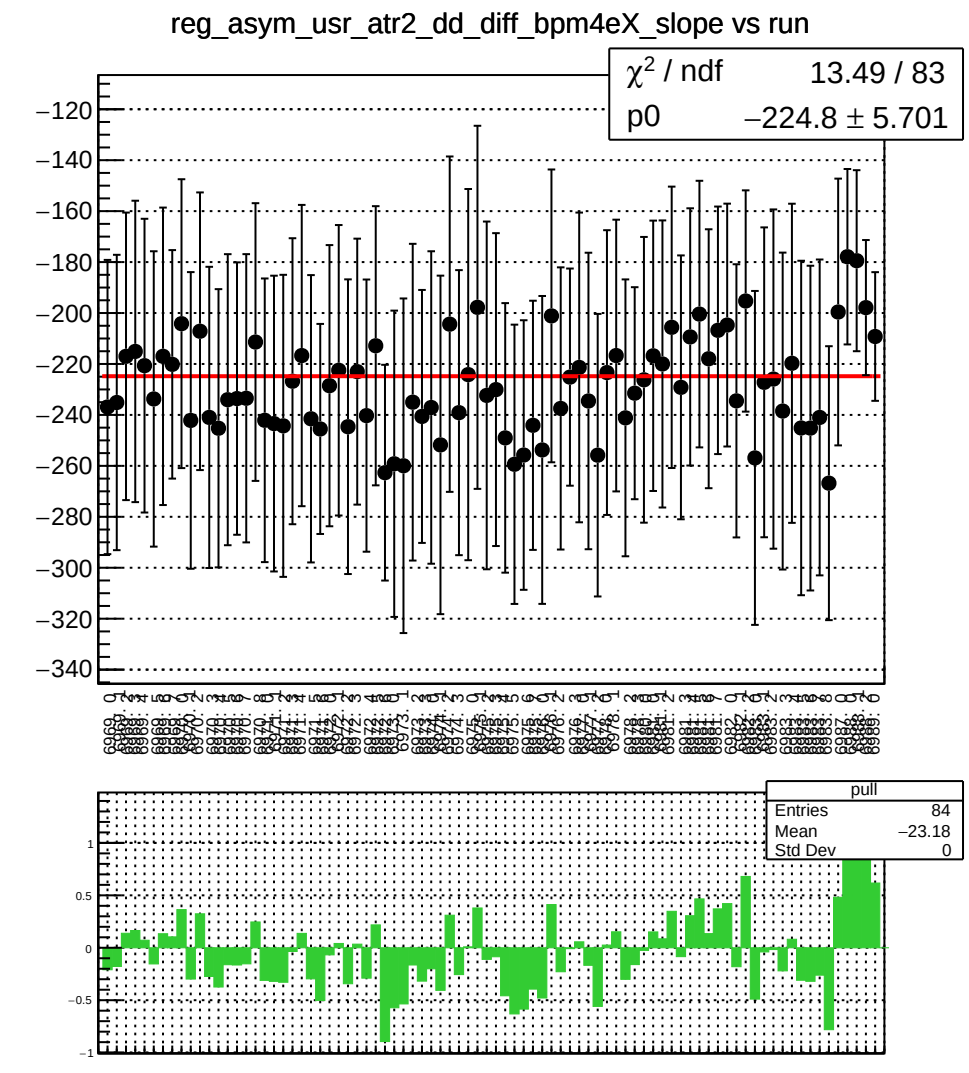

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 137.3 / 83
p0 −144.3 ± 0.2607
pull
Entries 84
Mean −180.2
Std Dev 0

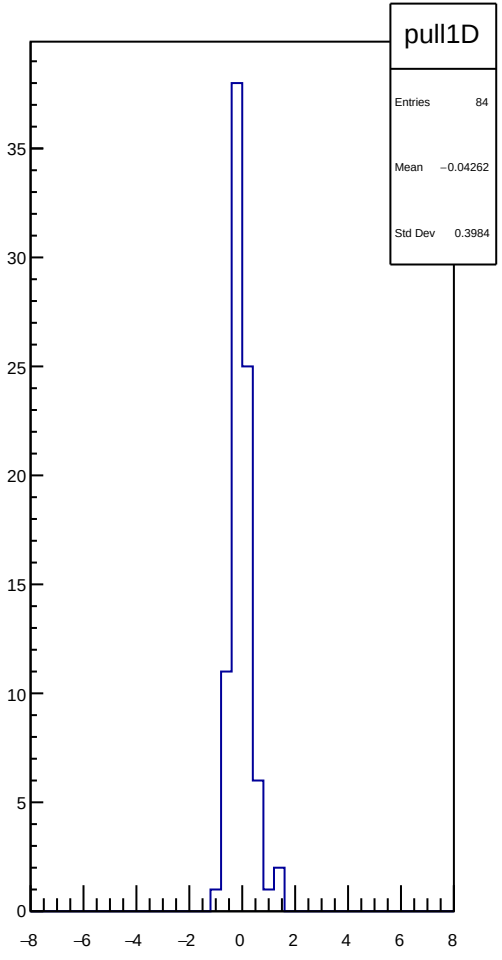

pull1D
Entries 84
Mean −0.105
Std Dev 1.274

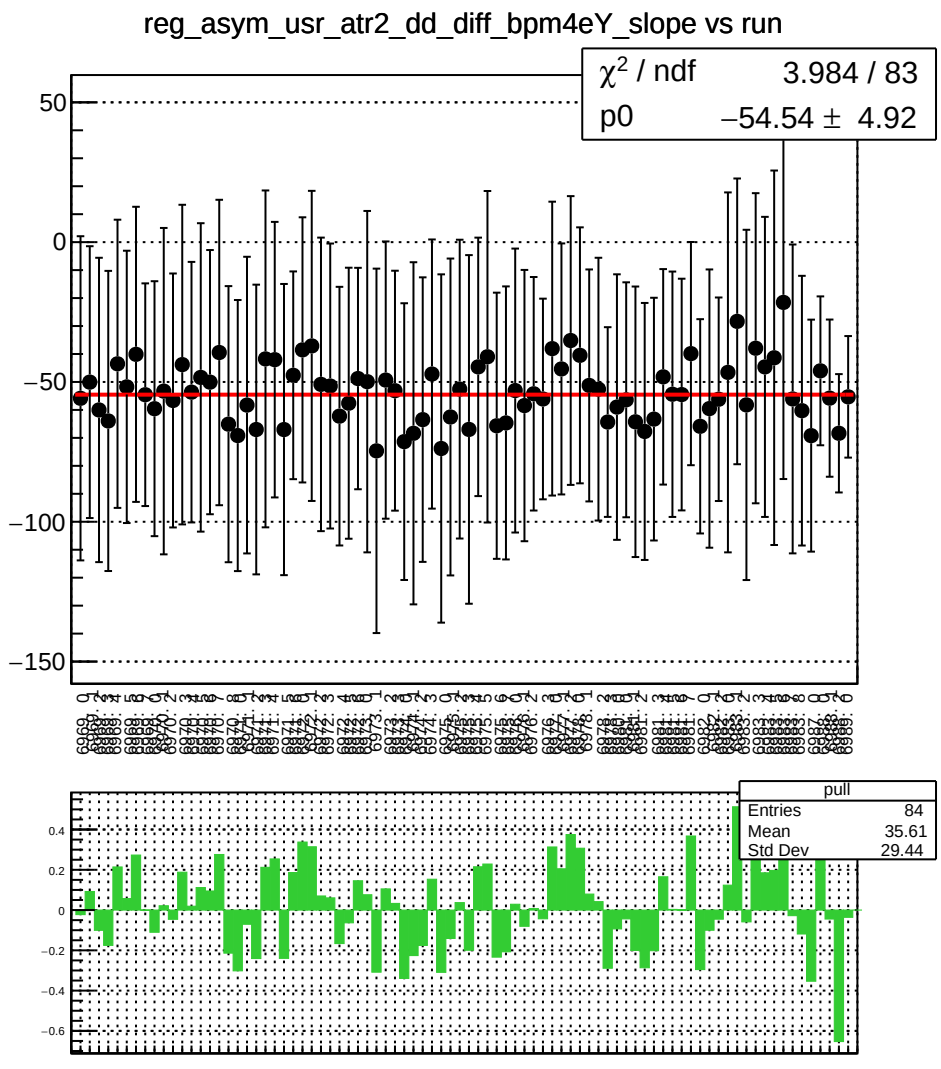

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.73 / 83
p0 218.3 ± 6.221
300
250
200
150
100
pull
Entries 84
Mean −24.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 84
Mean 0.03286
Std Dev 0.3722
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

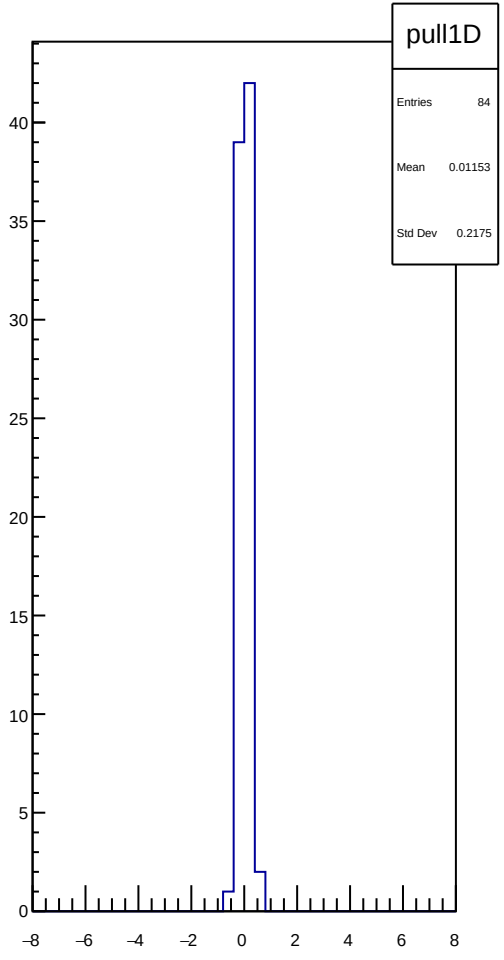

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.1 / 83
p0 −0.9127 ± 4.299
pull
Entries 84
Mean 3.075
Std Dev 0

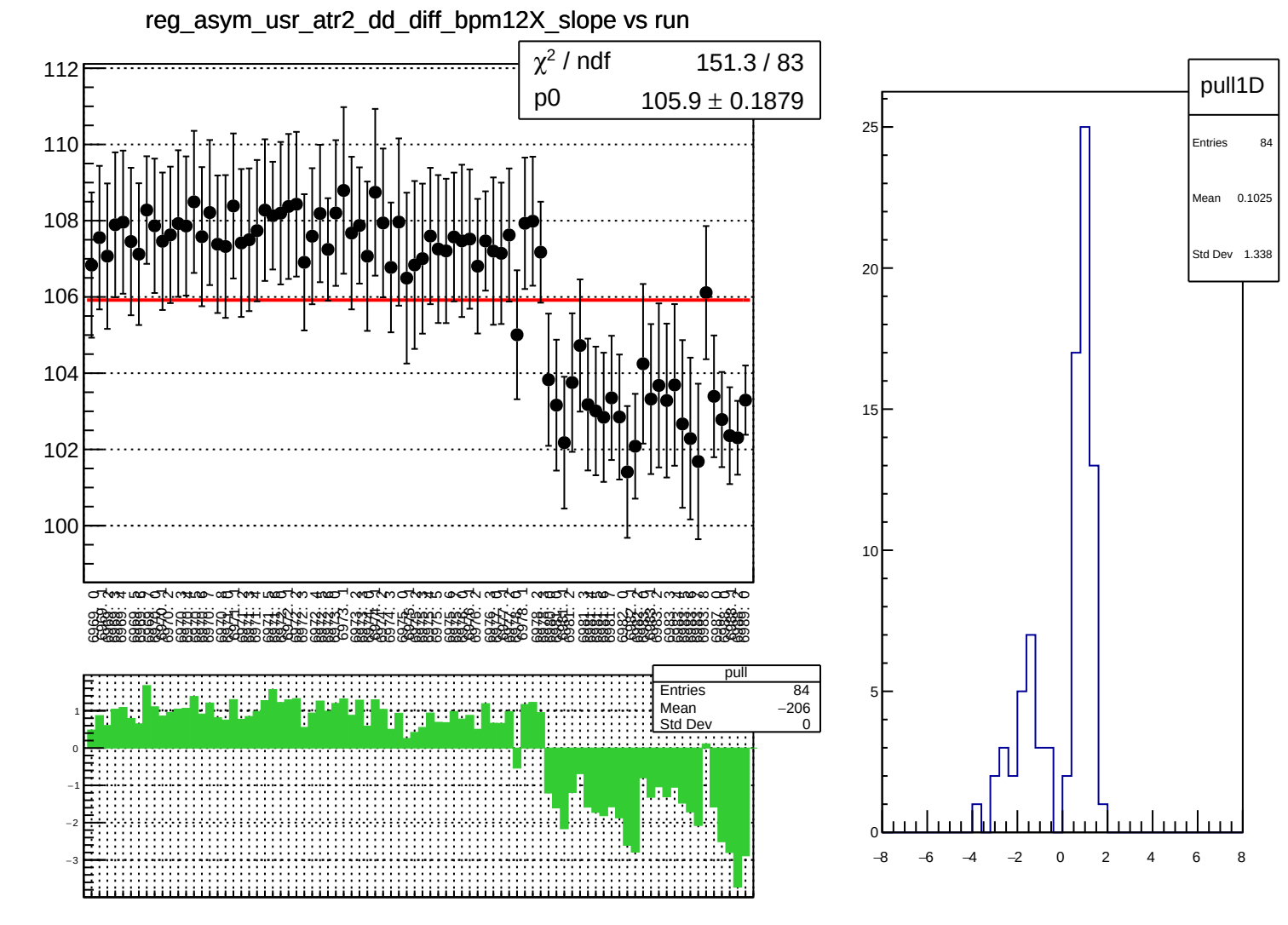

pull1D
Entries 84
Mean −0.01443
Std Dev 0.2205

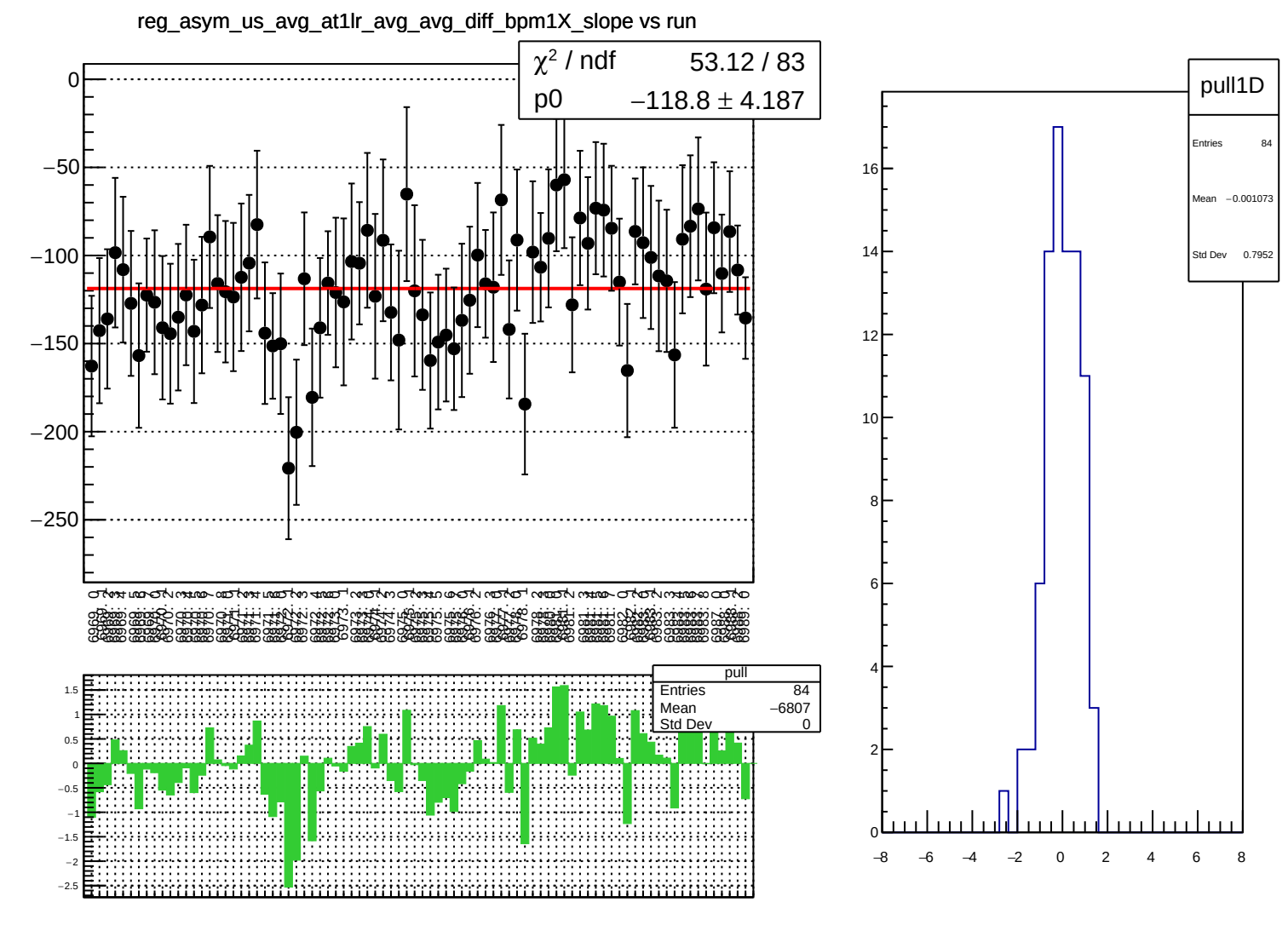

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.49 / 83
p0 −224.8 ± 5.701
pull
Entries 84
Mean −23.18
Std Dev 0

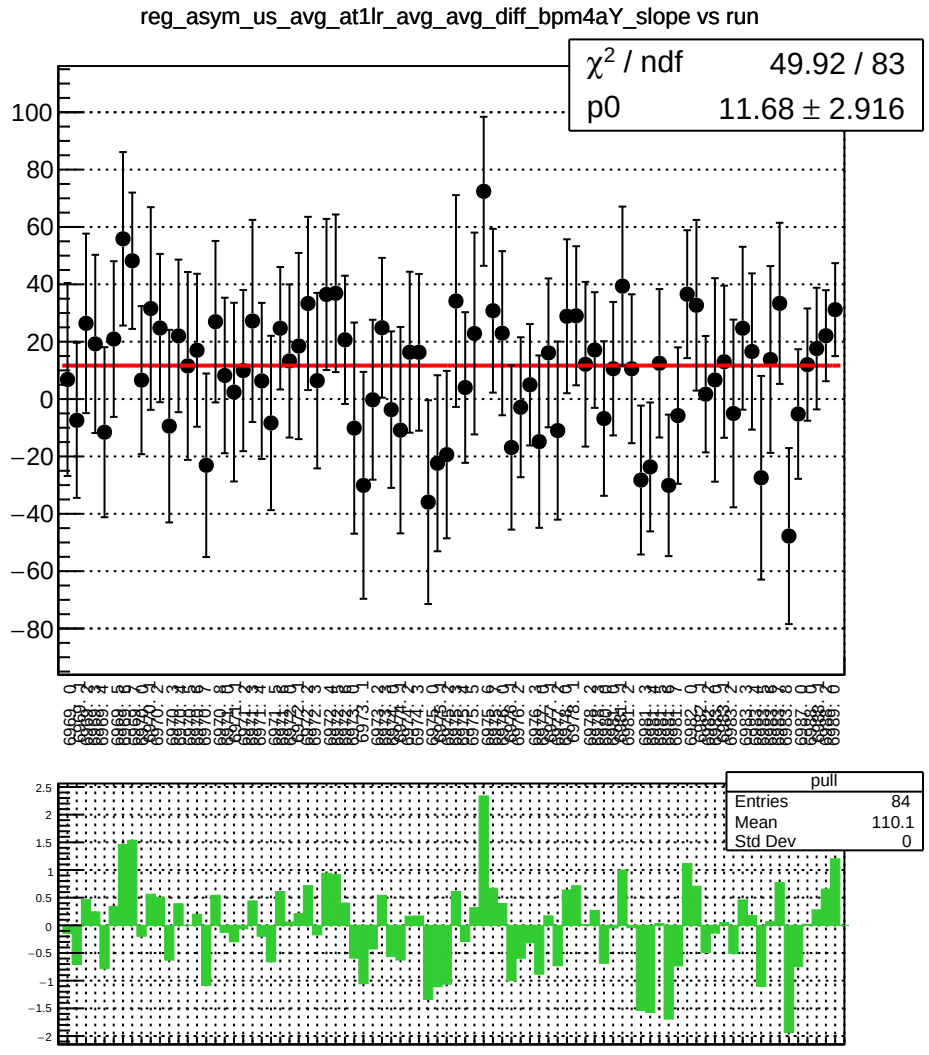

pull1D
Entries 84
Mean −0.04262
Std Dev 0.3984

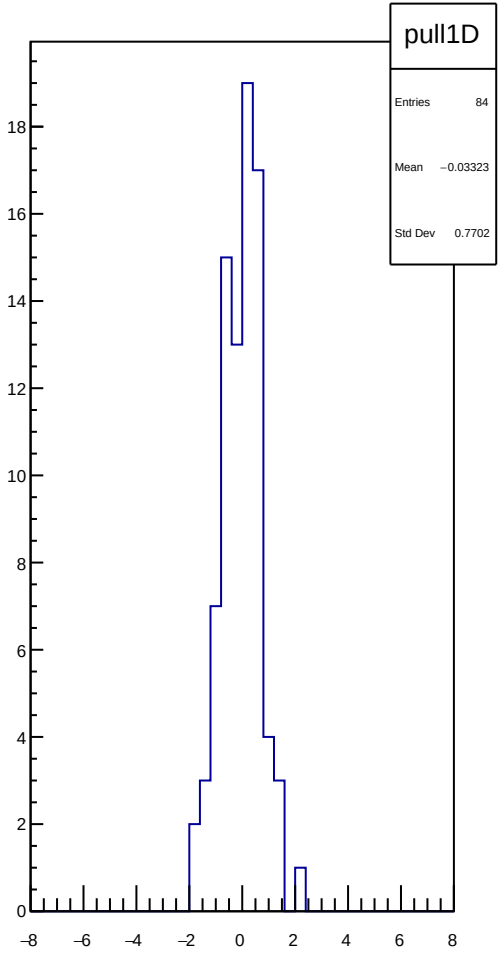

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.984 / 83
p0 −54.54 ± 4.92
50
0
−50
−100
−150
pull
Entries 84
Mean 35.61
Std Dev 29.44
0.4
0.2
0
−0.2
−0.4
−0.6

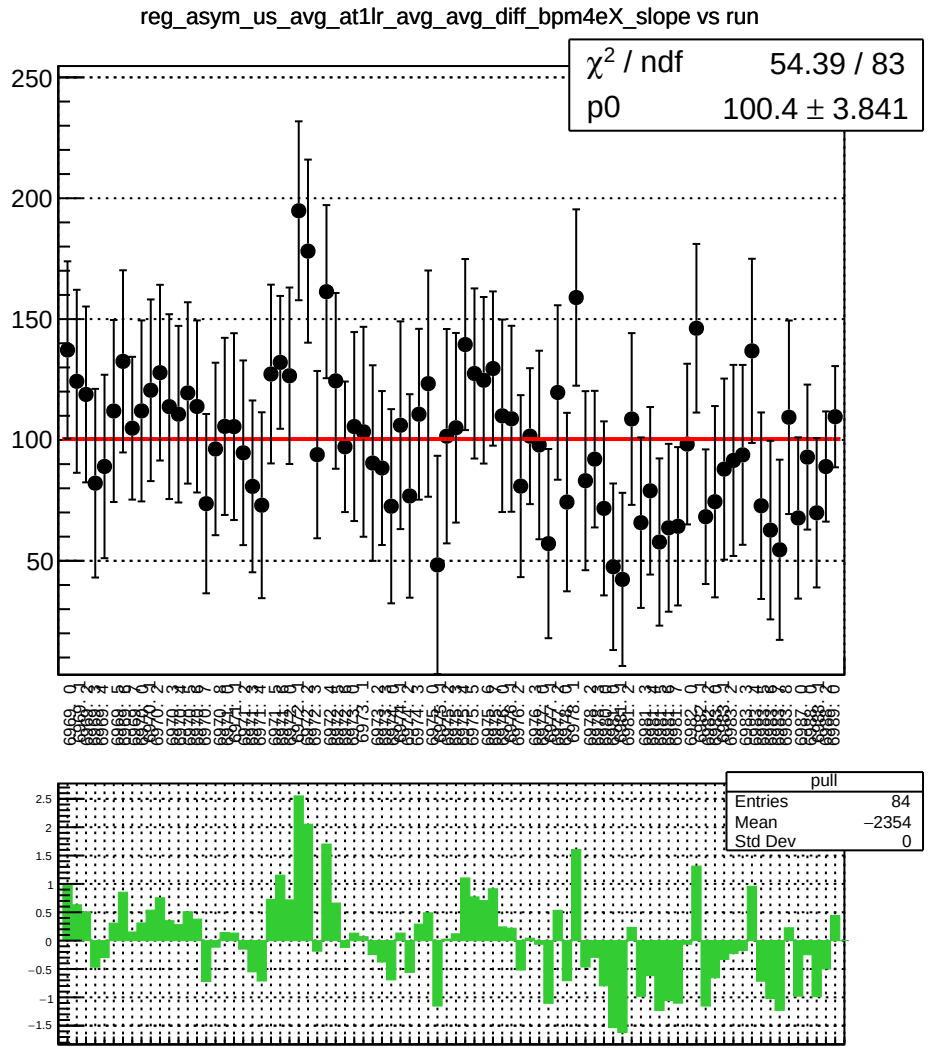

pull1D
Entries 84
Mean 0.01153
Std Dev 0.2175
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

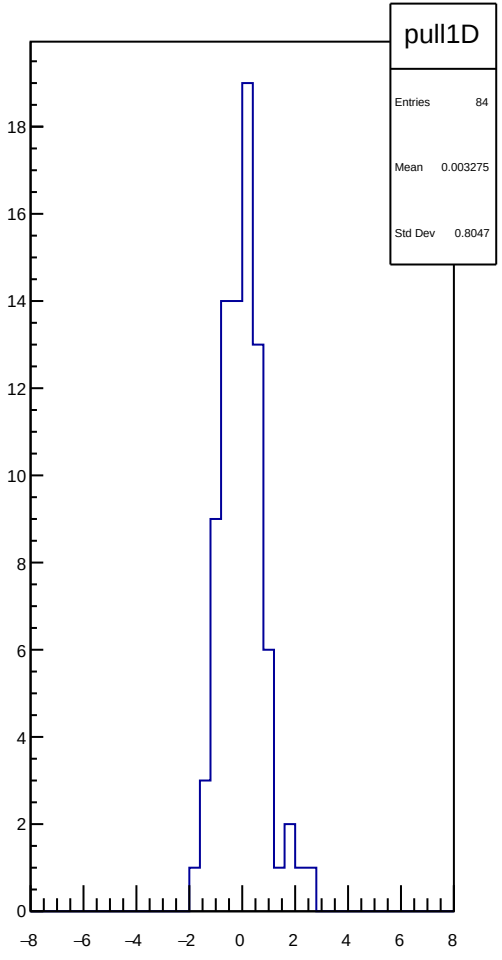

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 151.3 / 83
p0 105.9 ± 0.1879
pull
Entries 84
Mean −206
Std Dev 0
pull1D
Entries 84
Mean 0.1025
Std Dev 1.338

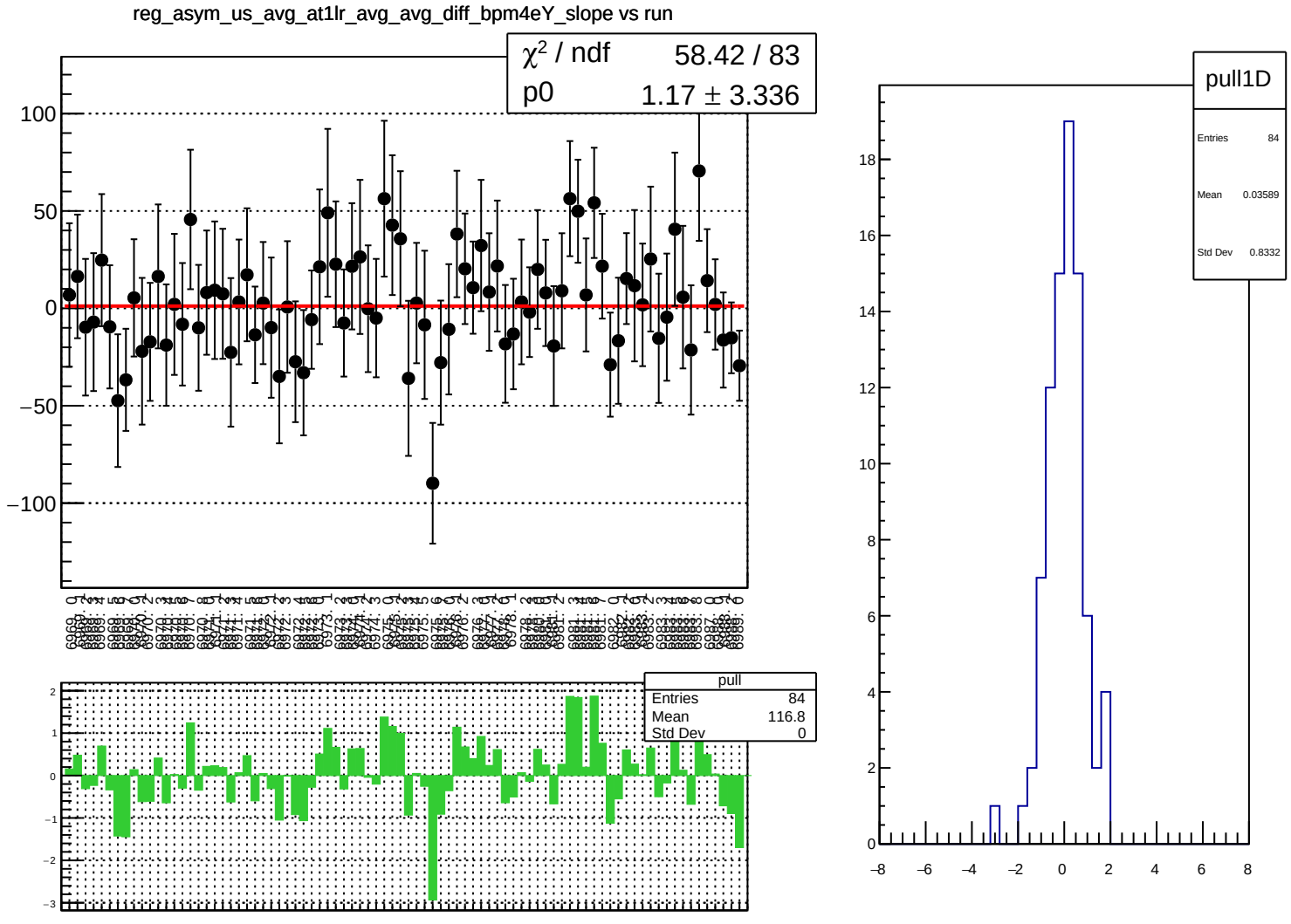

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 53.12 / 83
p0 −118.8 ± 4.187
pull
Entries 84
Mean −6807
Std Dev 0
pull1D
Entries 84
Mean −0.001073
Std Dev 0.7952

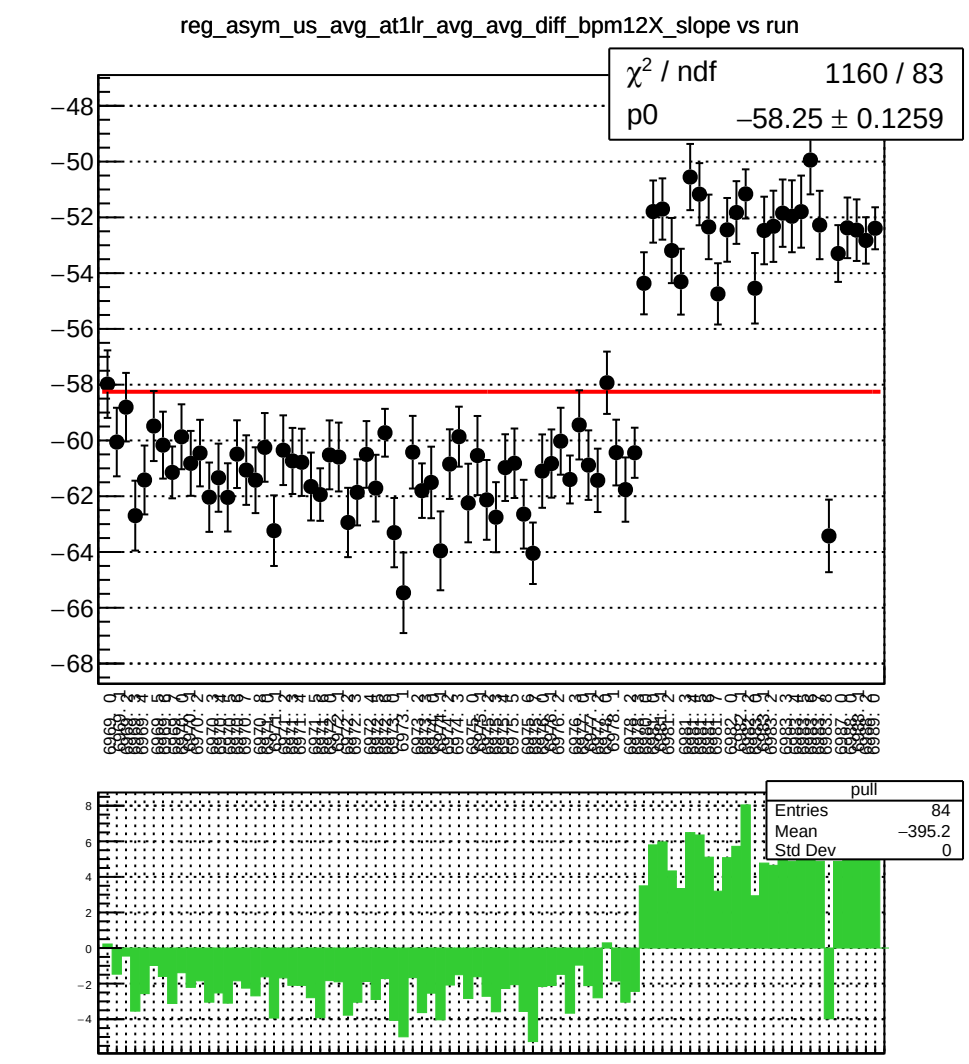

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.92 / 83
p0 11.68 ± 2.916
pull
Entries 84
Mean 110.1
Std Dev 0

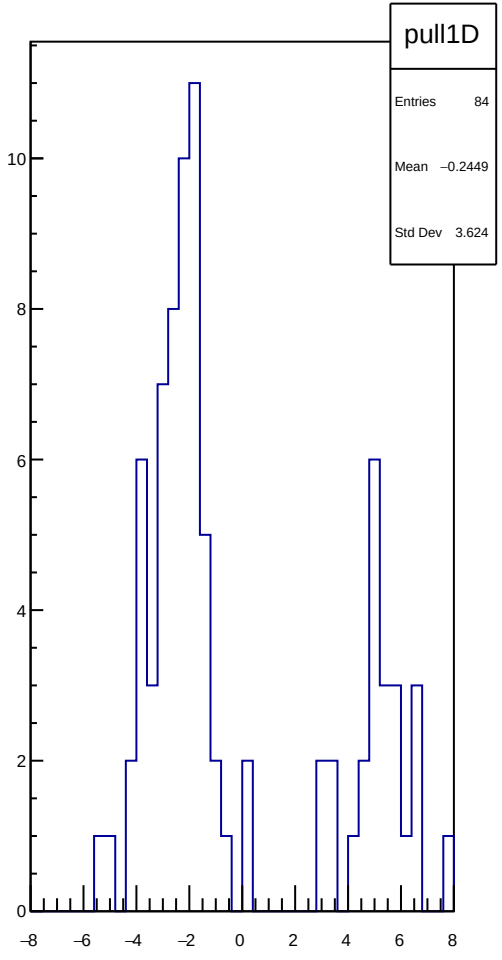

pull1D
Entries 84
Mean −0.03323
Std Dev 0.7702

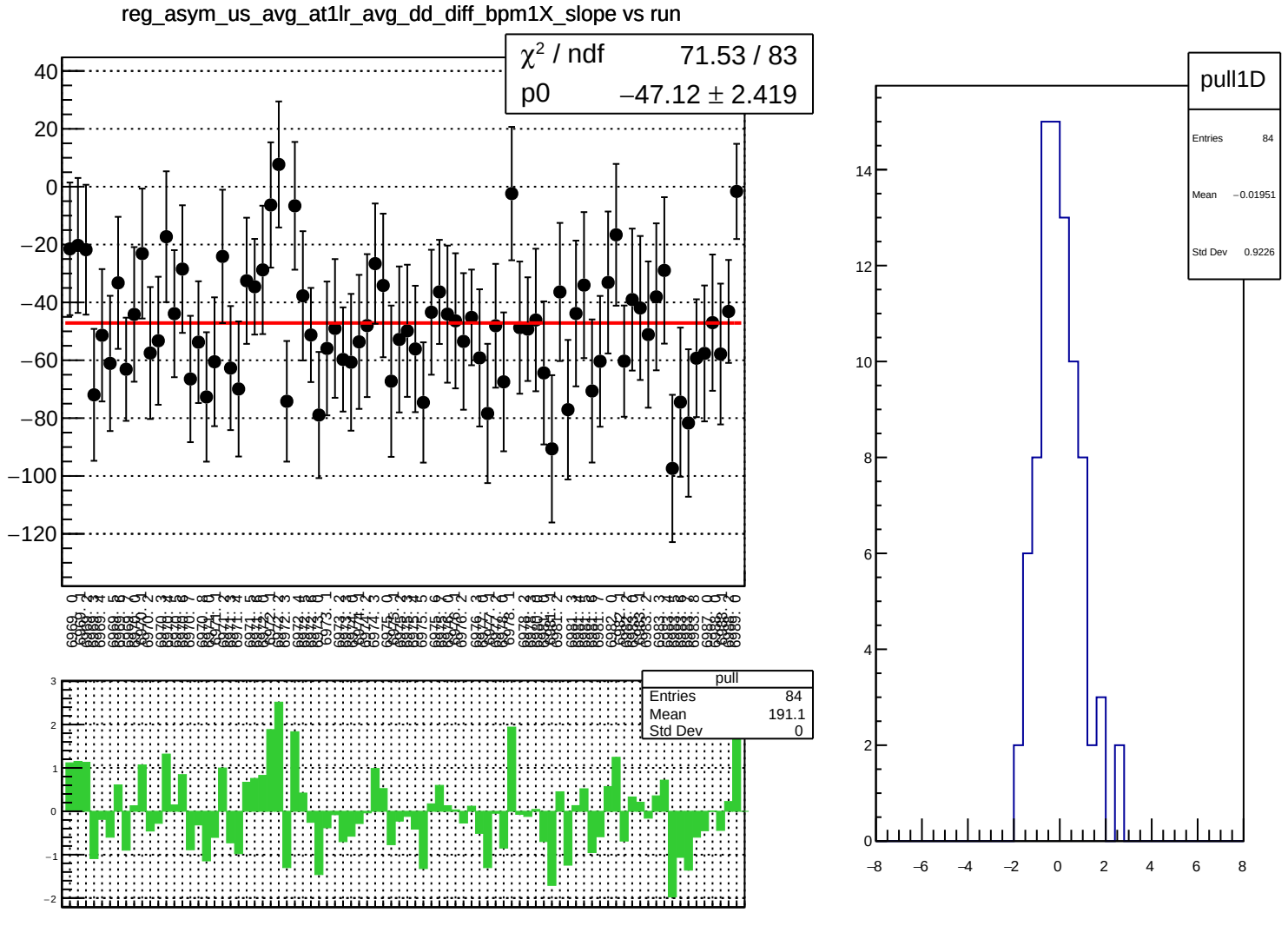

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.39 / 83
p0 100.4 ± 3.841
pull
Entries 84
Mean −2354
Std Dev 0

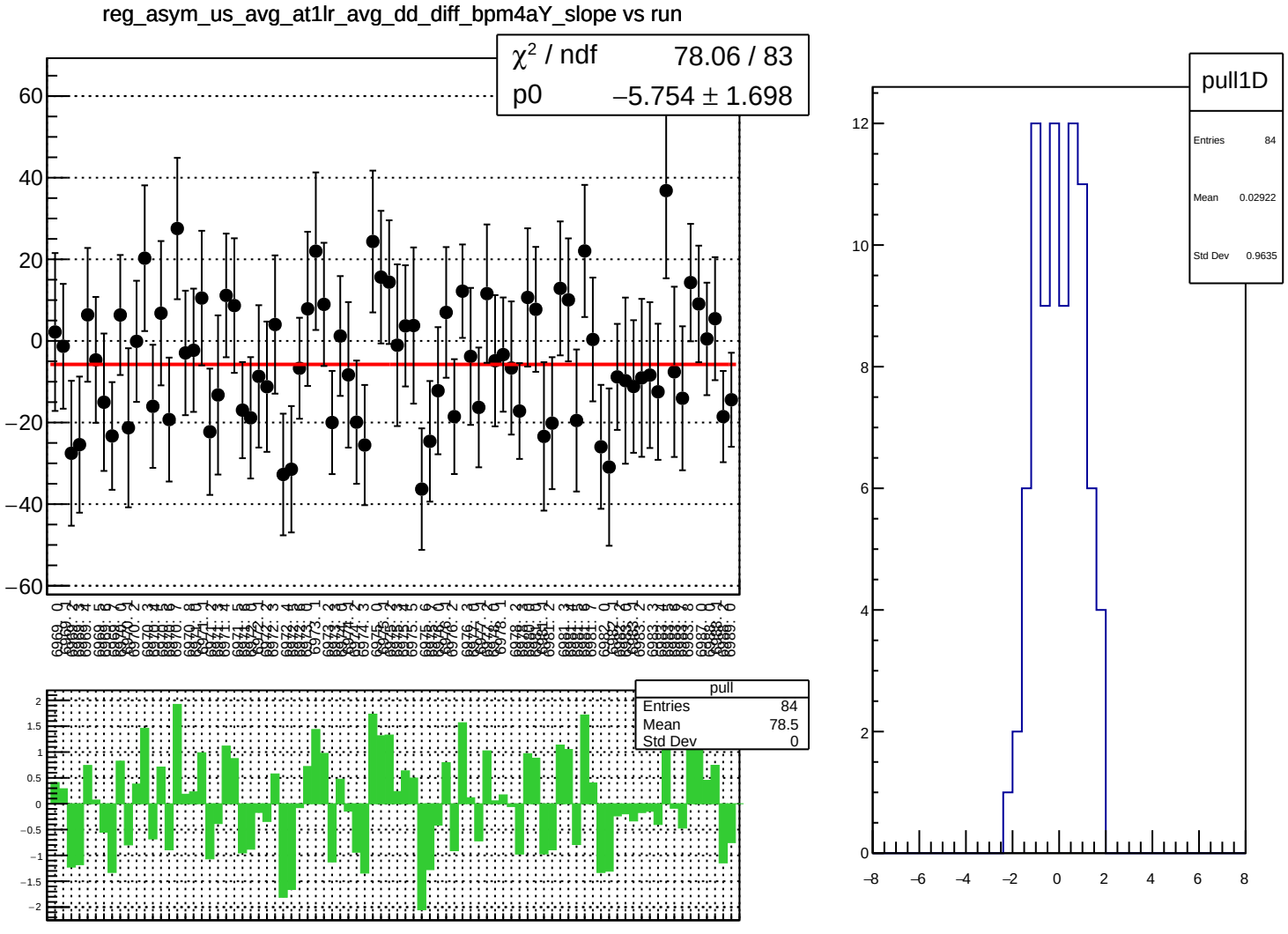

pull1D
Entries 84
Mean 0.003275
Std Dev 0.8047

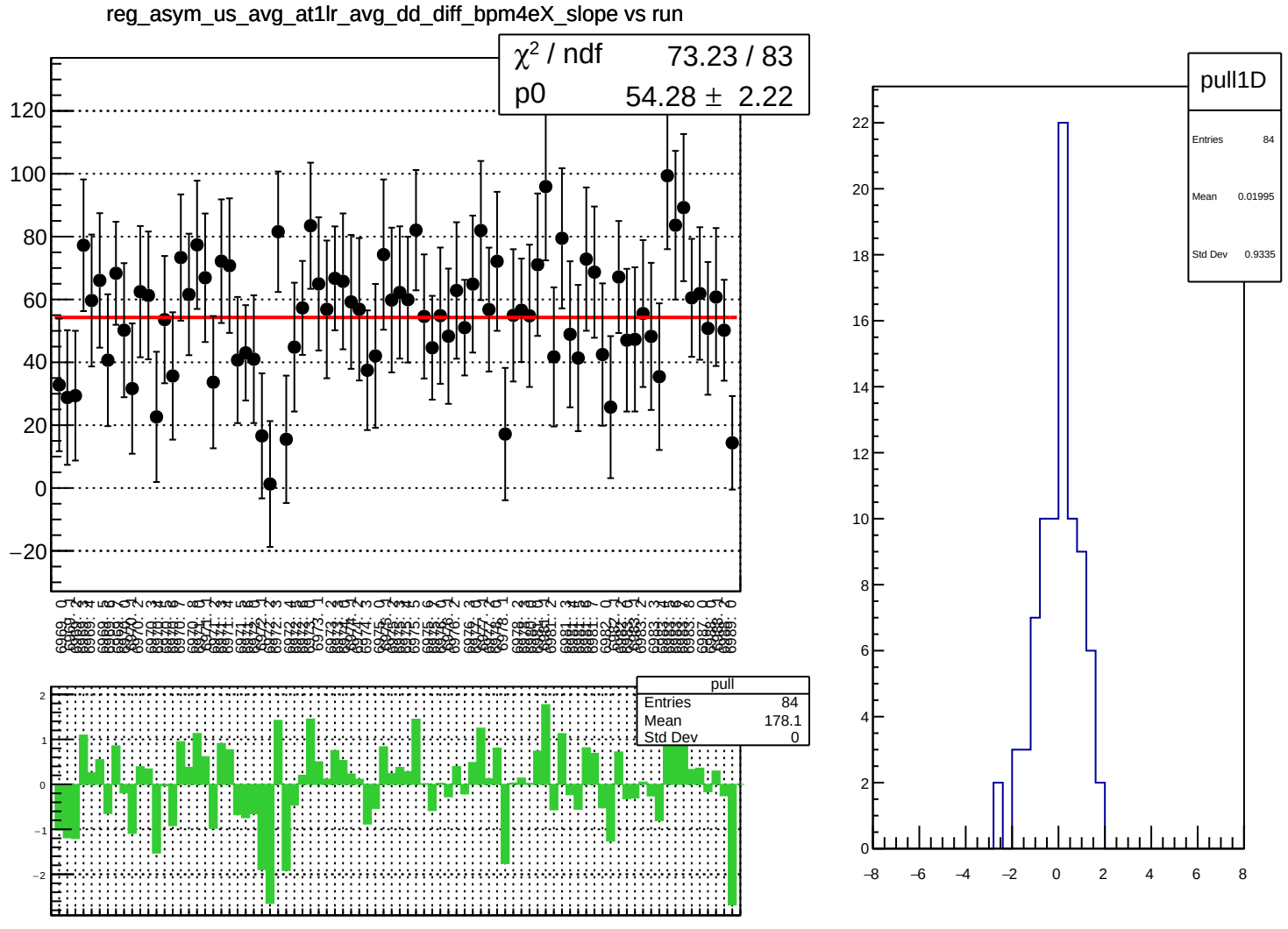

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.42 / 83
p0 1.17 ± 3.336
100
50
0
−50
−100
pull
Entries 84
Mean 116.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.03589
Std Dev 0.8332
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

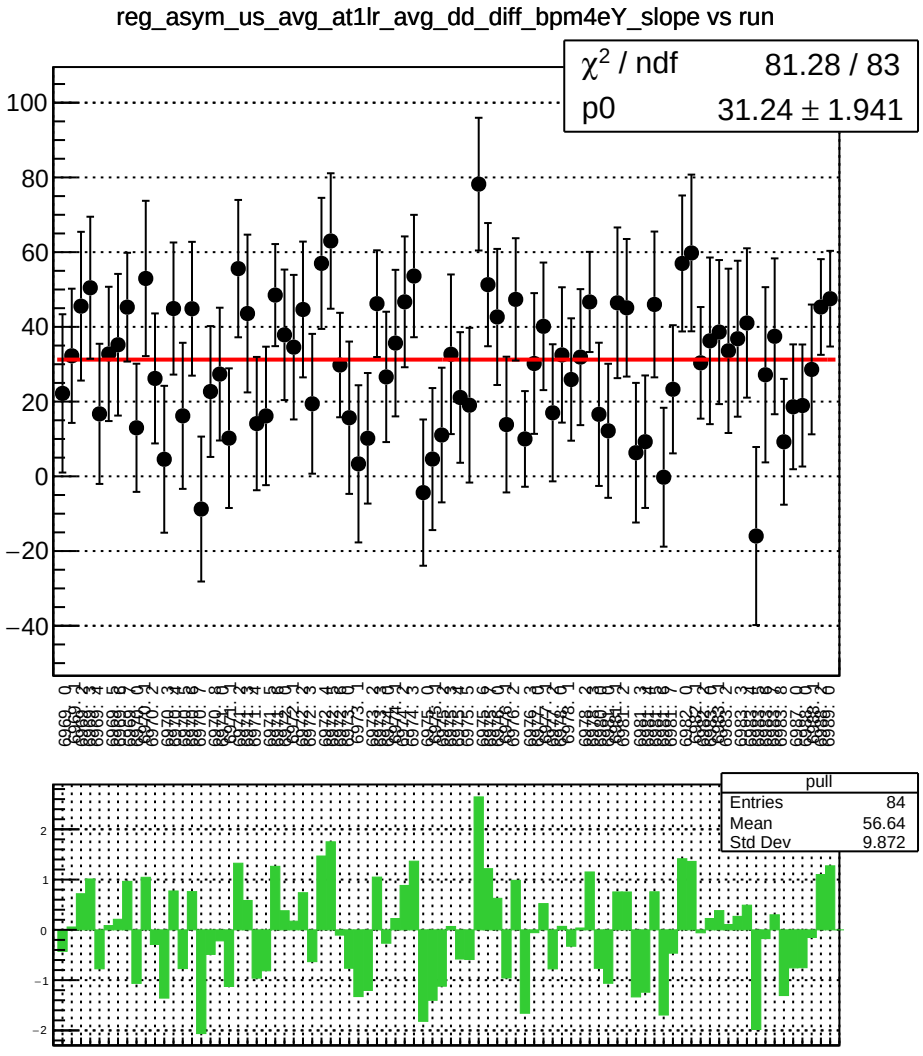

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1160 / 83
p0 −58.25 ± 0.1259
pull
Entries 84
Mean −395.2
Std Dev 0

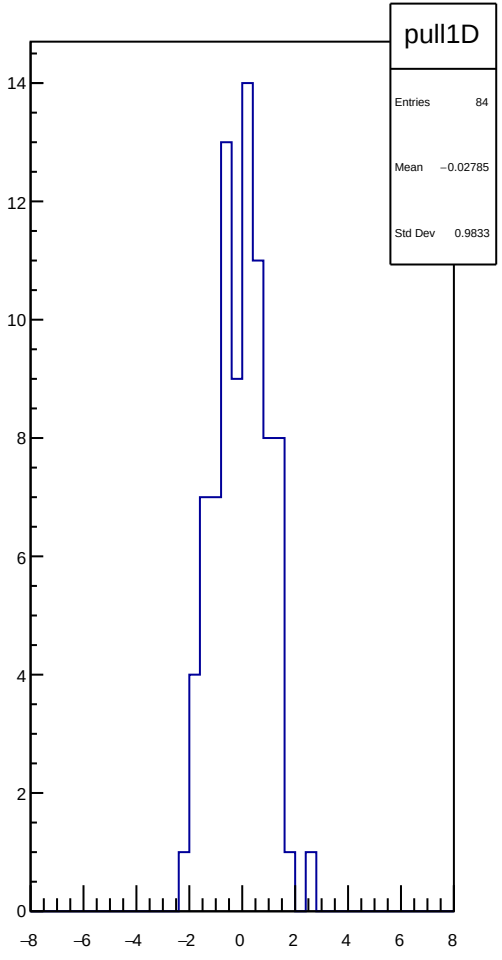

pull1D
Entries 84
Mean −0.2449
Std Dev 3.624

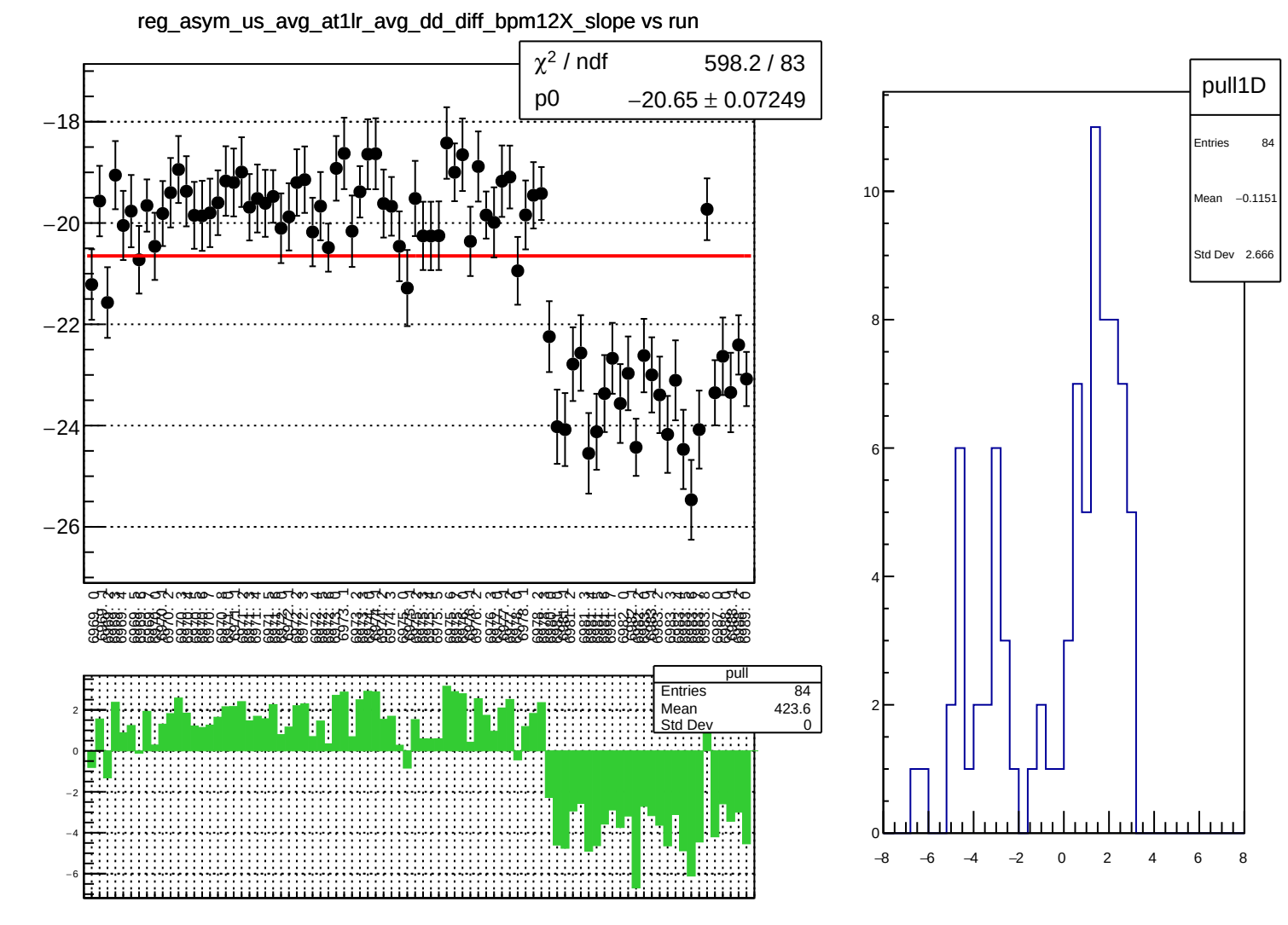

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 71.53 / 83
p0 −47.12 ± 2.419
pull
Entries 84
Mean 191.1
Std Dev 0
pull1D
Entries 84
Mean −0.01951
Std Dev 0.9226

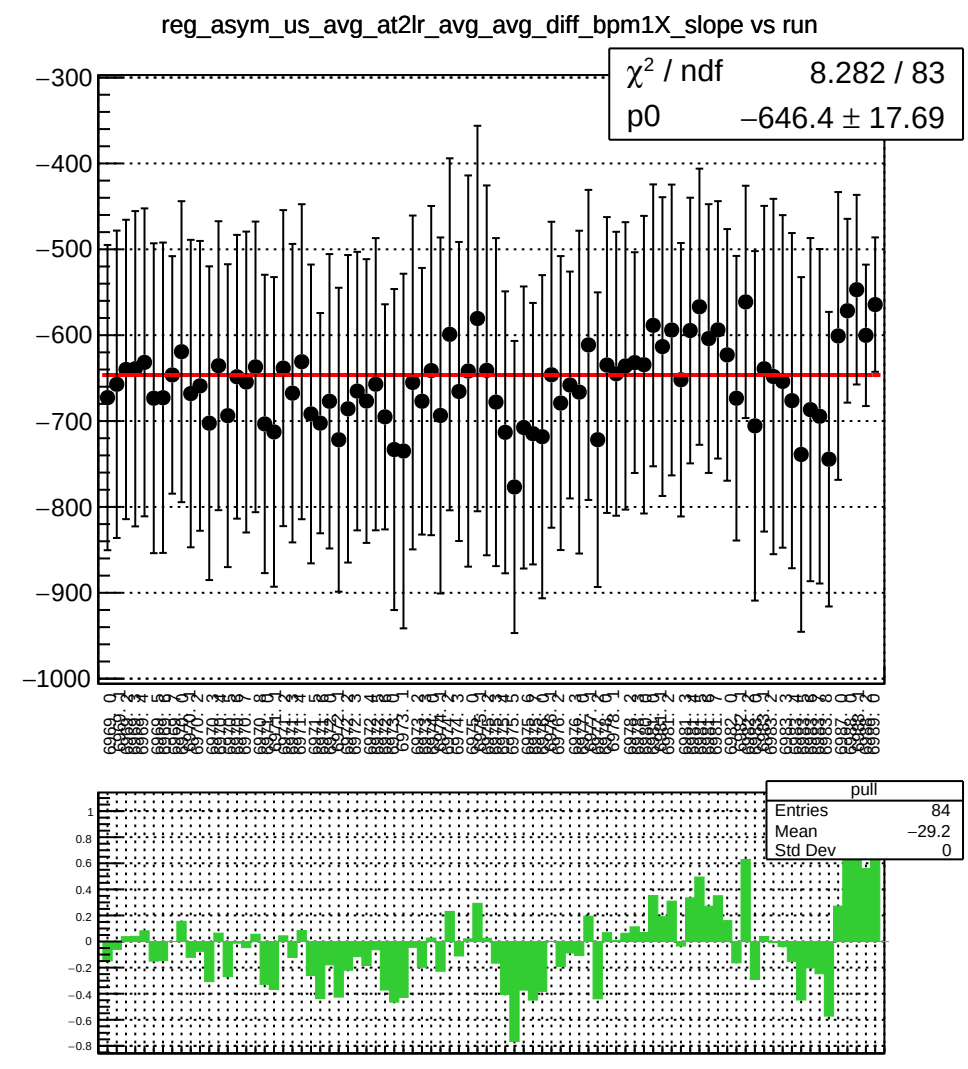

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.06 / 83
p0 −5.754 ± 1.698
pull
Entries 84
Mean 78.5
Std Dev 0
pull1D
Entries 84
Mean 0.02922
Std Dev 0.9635

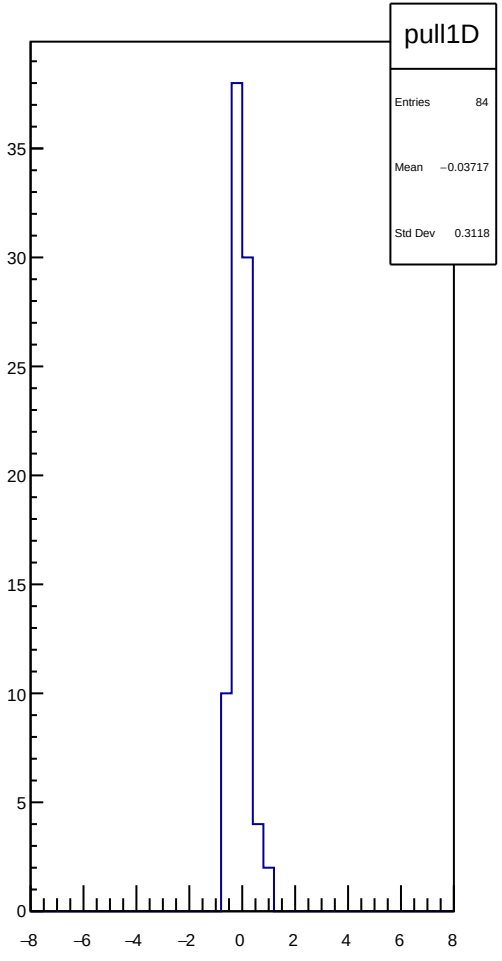

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.23 / 83
p0 54.28 ± 2.22
pull
Entries 84
Mean 178.1
Std Dev 0
pull1D
Entries 84
Mean 0.01995
Std Dev 0.9335

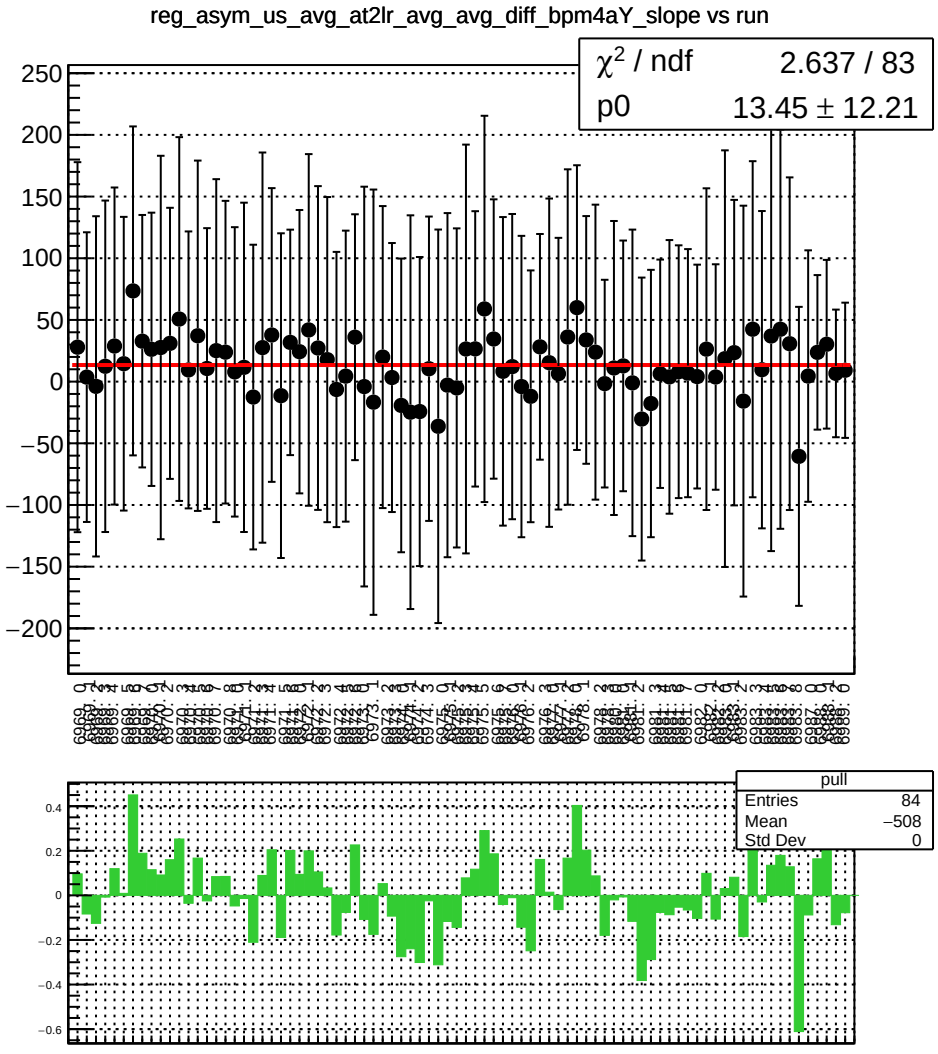

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.28 / 83
p0 31.24 ± 1.941
pull
Entries 84
Mean 56.64
Std Dev 9.872

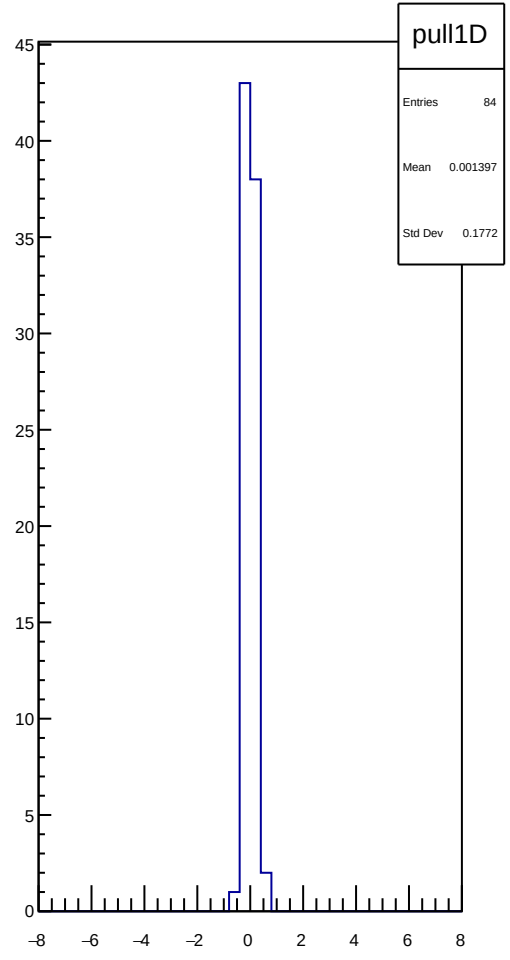

pull1D
Entries 84
Mean −0.02785
Std Dev 0.9833

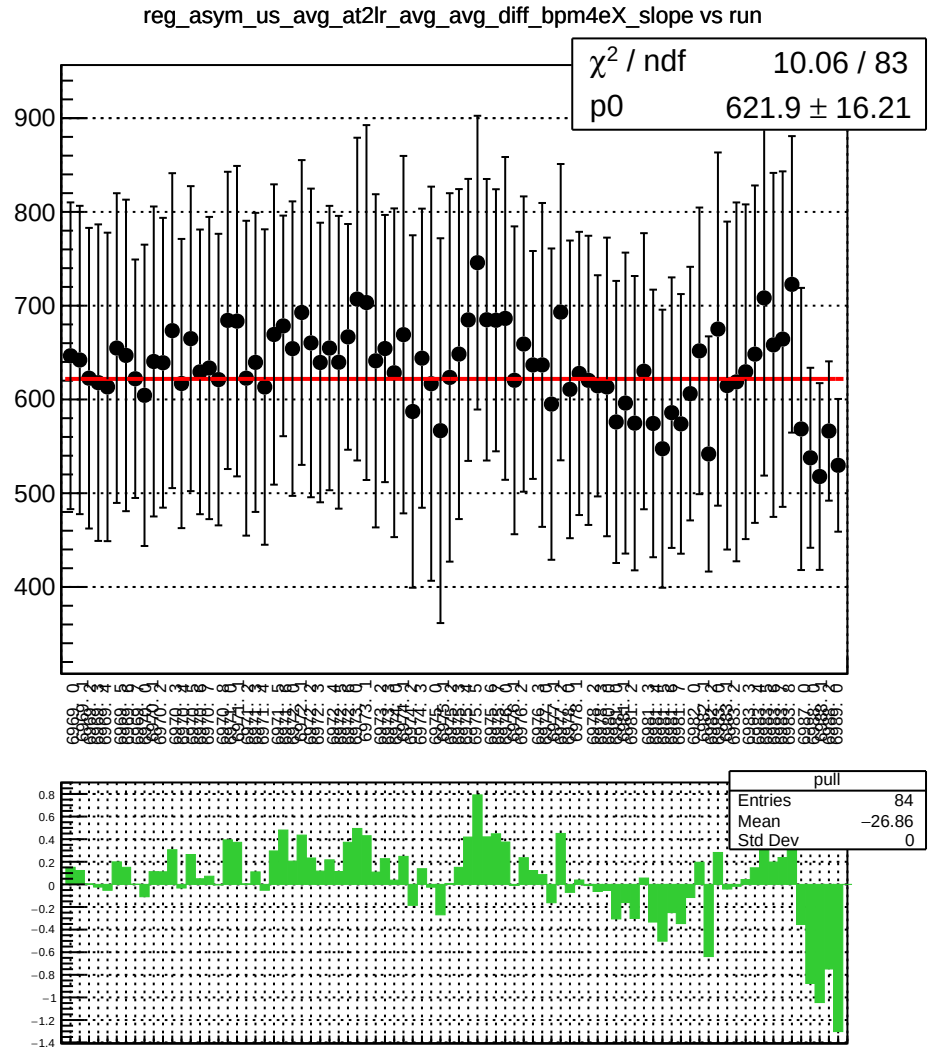

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 598.2 / 83
p0 −20.65 ± 0.07249
−18
−20
−22
−24
−26
pull
Entries 84
Mean 423.6
Std Dev 0
2
0
−2
−4
−6
pull1D
Entries 84
Mean −0.1151
Std Dev 2.666
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

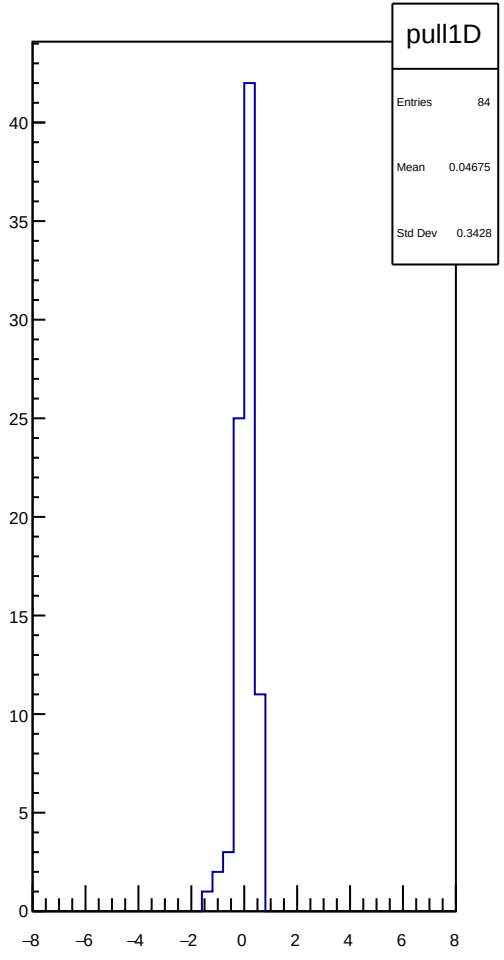

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 8.282 / 83
p0 −646.4 ± 17.69
pull
Entries 84
Mean −29.2
Std Dev 0

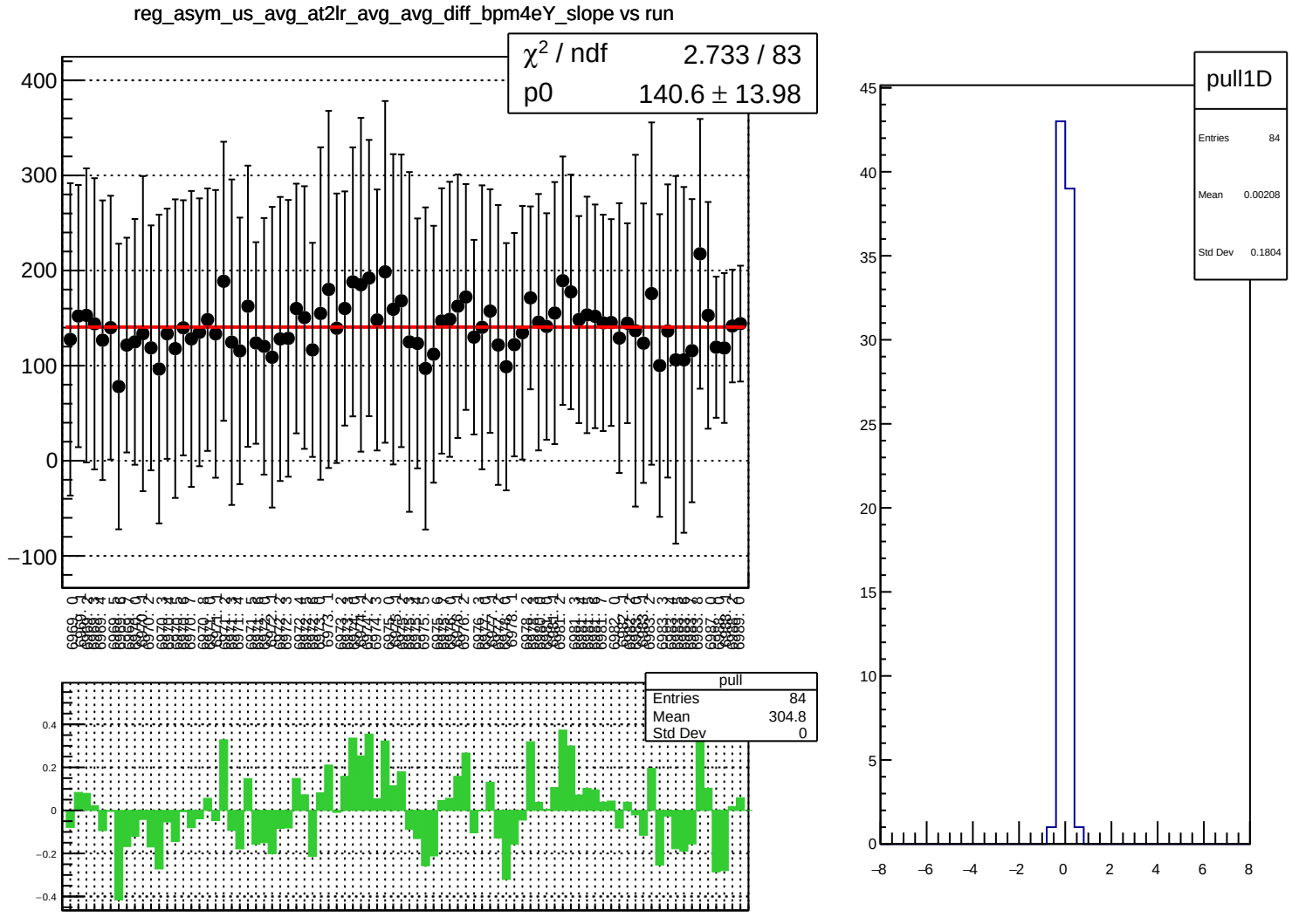

pull1D
Entries 84
Mean −0.03717
Std Dev 0.3118

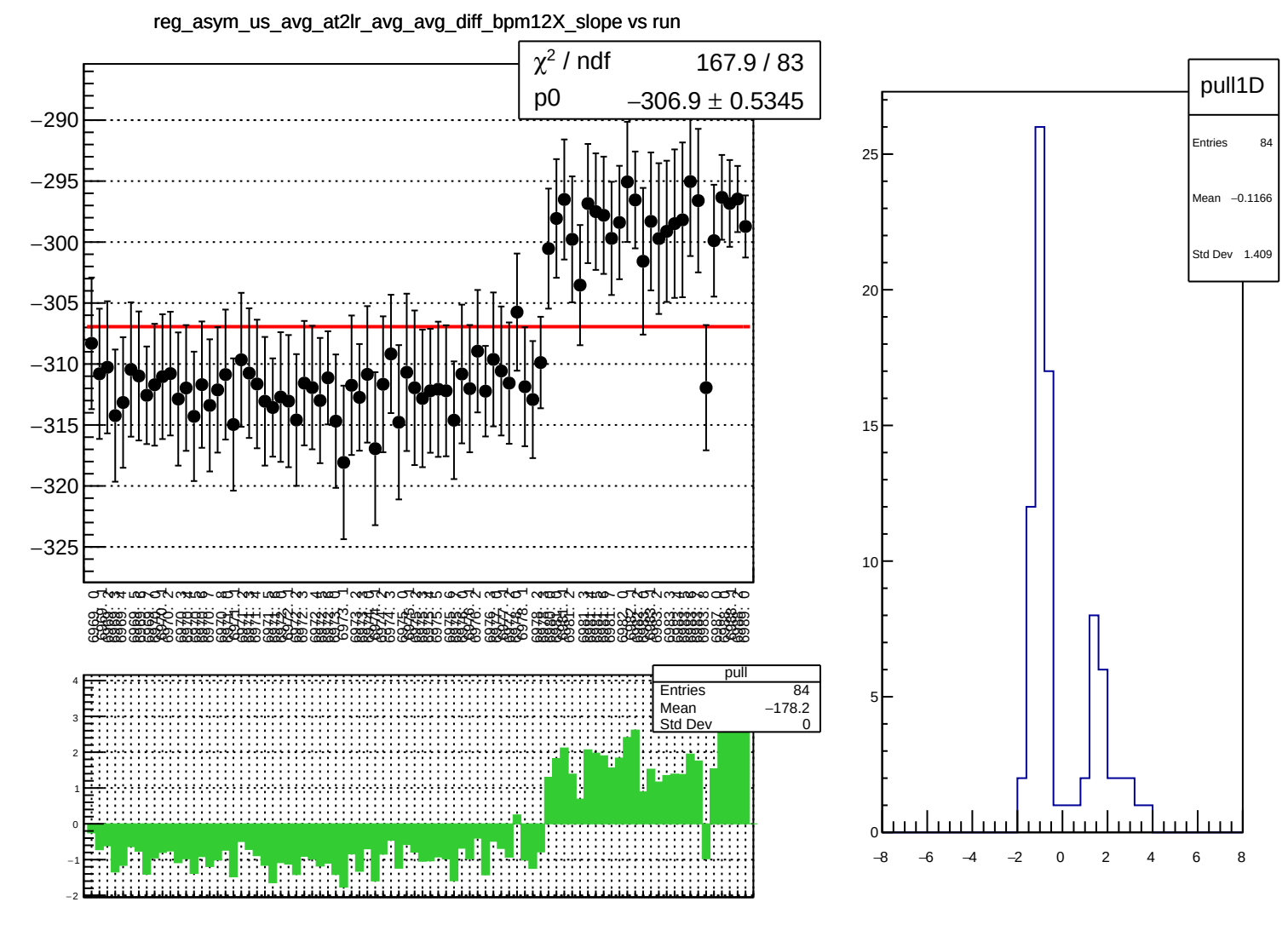

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.637 / 83
p0 13.45 ± 12.21
pull
Entries 84
Mean −508
Std Dev 0

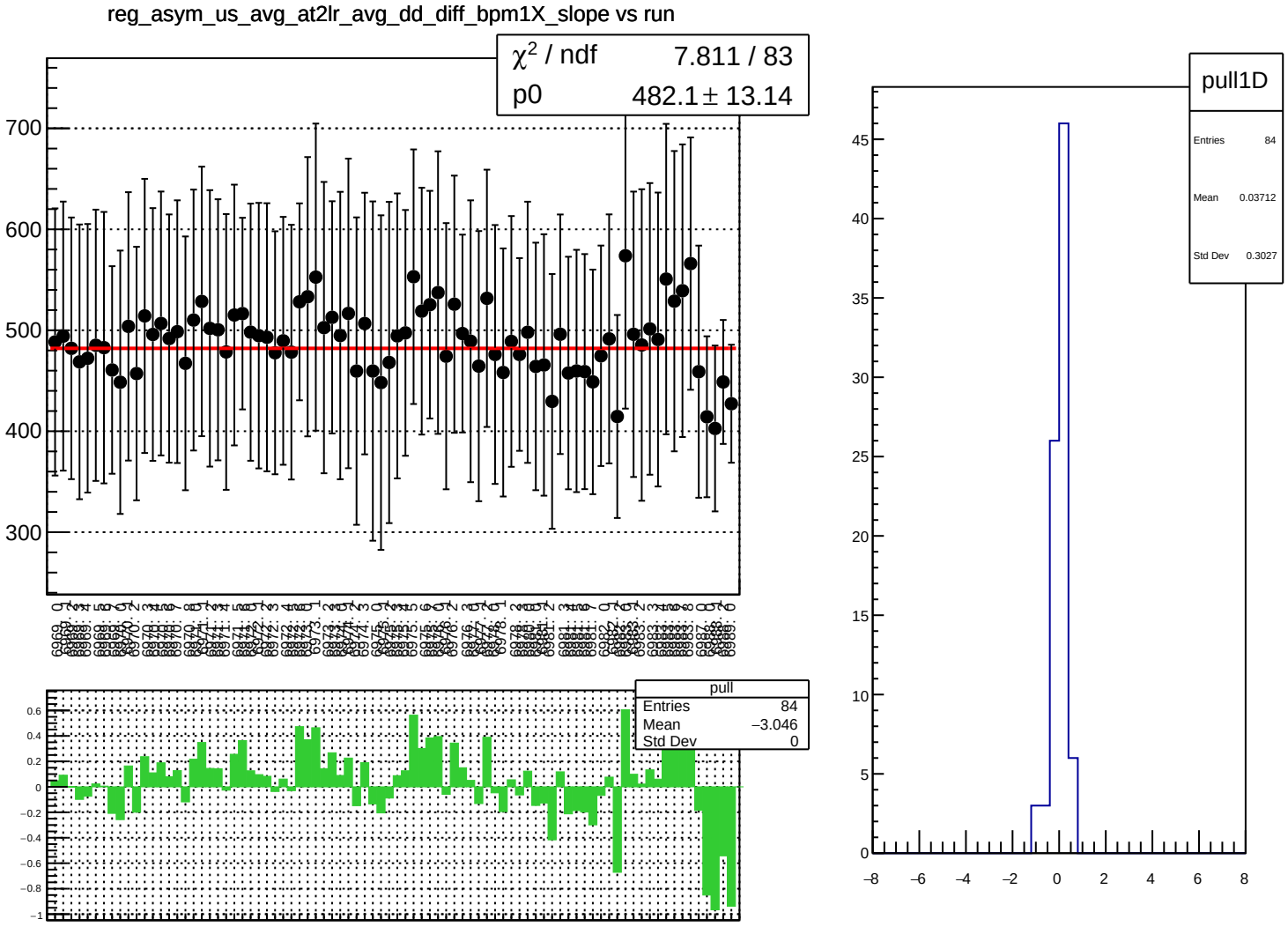

pull1D
Entries 84
Mean 0.001397
Std Dev 0.1772

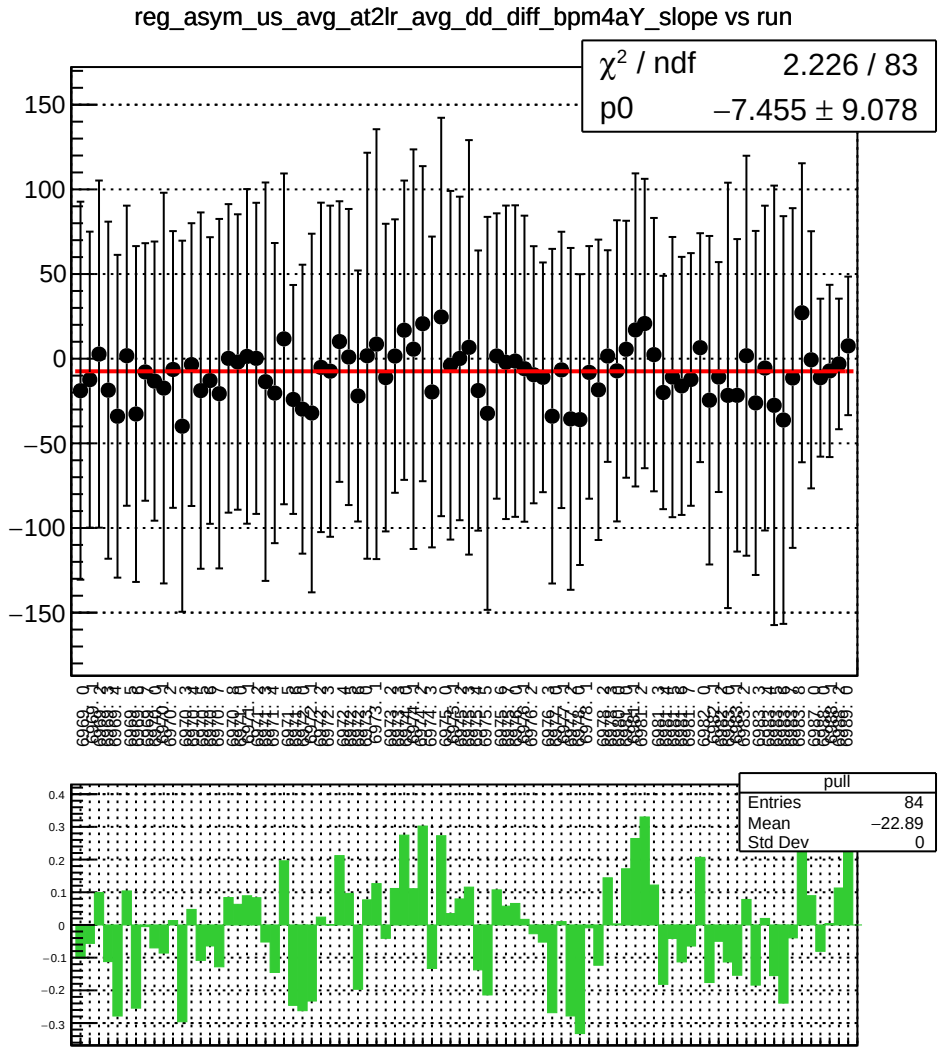

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.06 / 83
p0 621.9 ± 16.21
900
800
700
600
500
400
pull
Entries 84
Mean −26.86
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

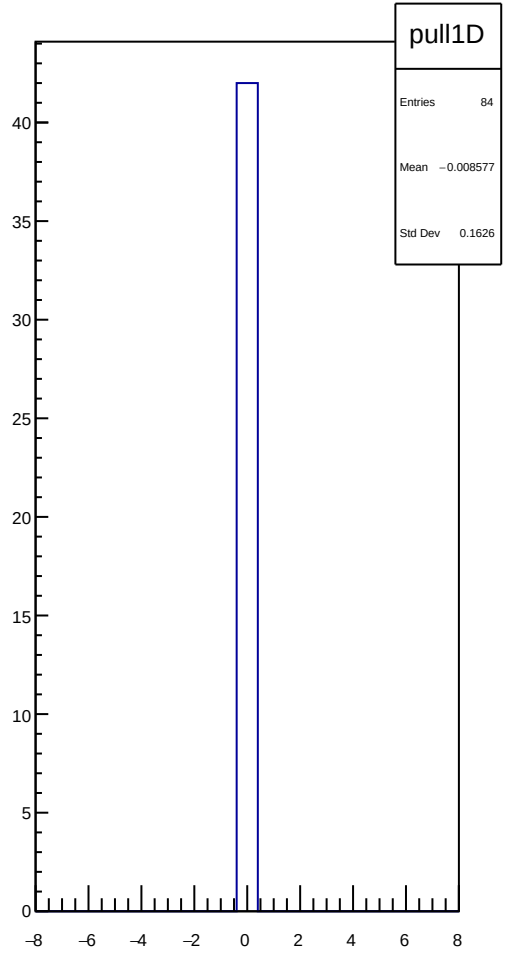

pull1D
Entries 84
Mean 0.04675
Std Dev 0.3428
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

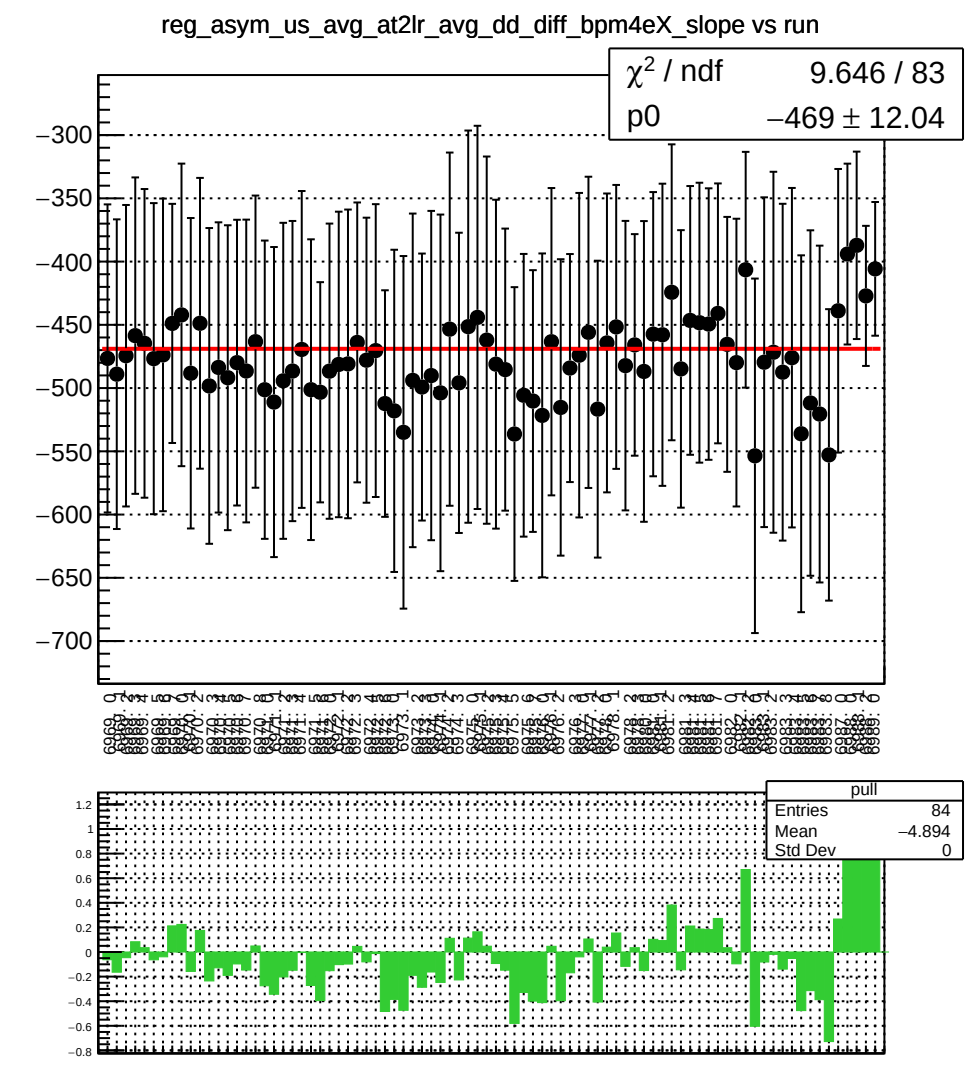

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.733 / 83
p0 140.6 ± 13.98
pull
Entries 84
Mean 304.8
Std Dev 0
pull1D
Entries 84
Mean 0.00208
Std Dev 0.1804

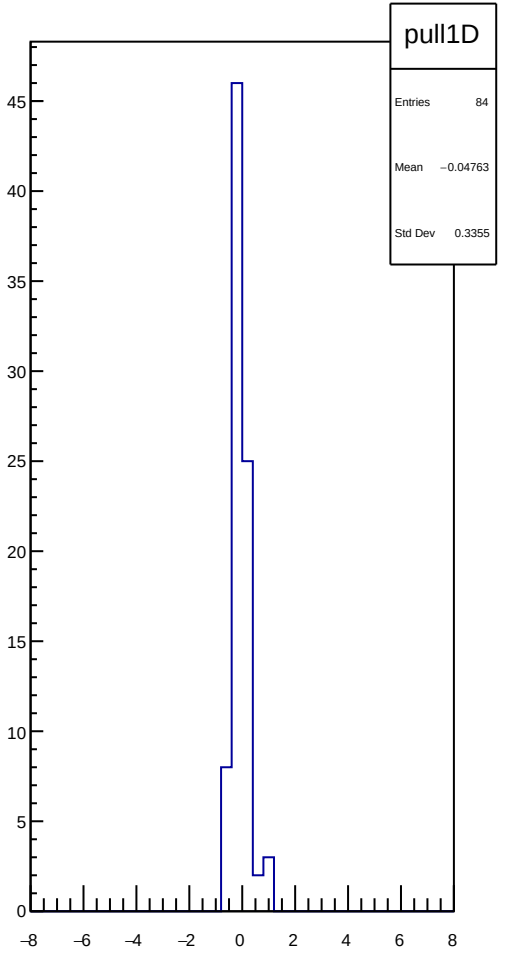

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 167.9 / 83
p0 −306.9 ± 0.5345
pull
Entries 84
Mean −178.2
Std Dev 0
pull1D
Entries 84
Mean −0.1166
Std Dev 1.409

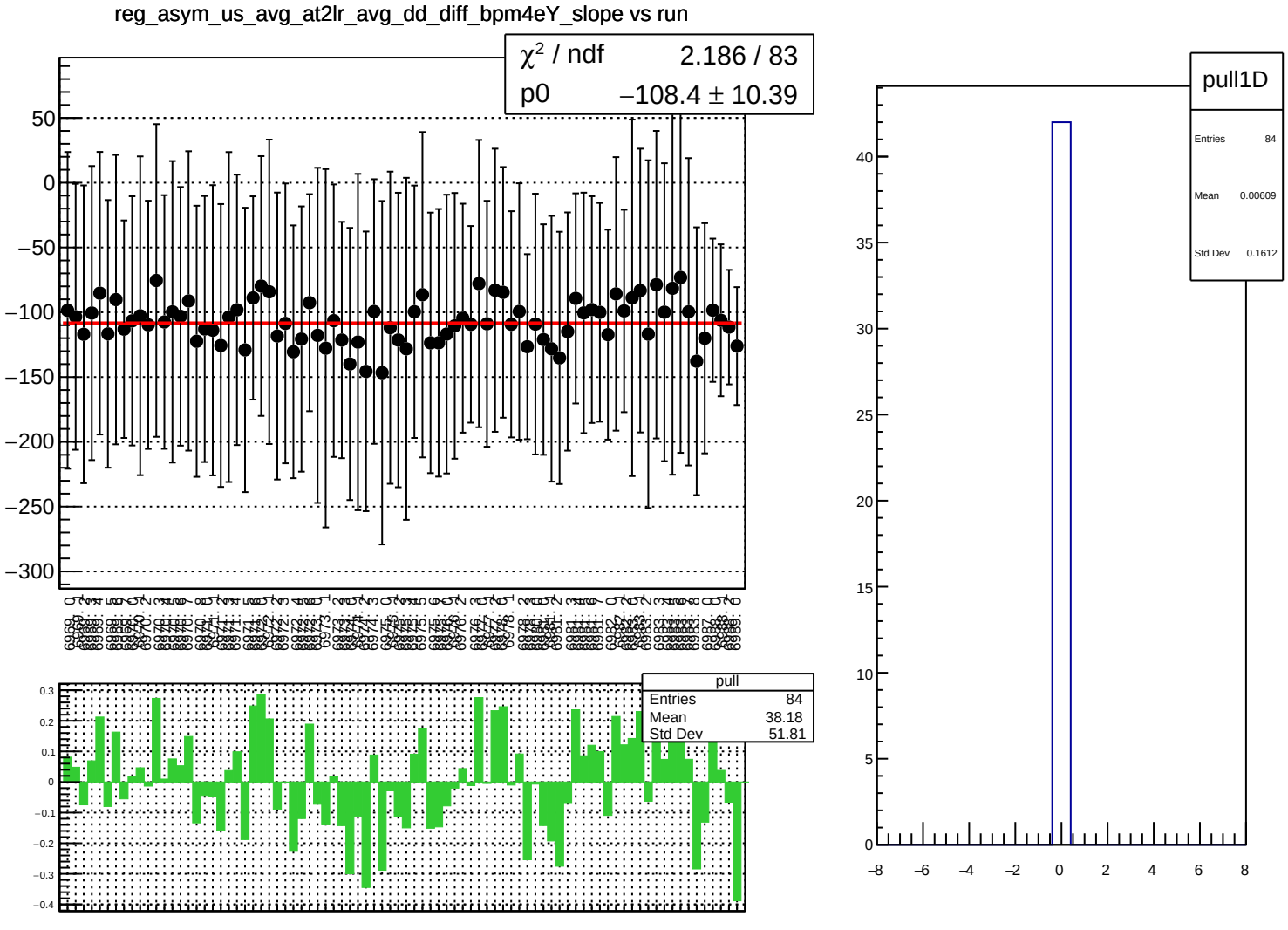

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 7.811 / 83
p0 482.1 ± 13.14
700
600
500
400
300
pull
Entries 84
Mean −3.046
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 84
Mean 0.03712
Std Dev 0.3027
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

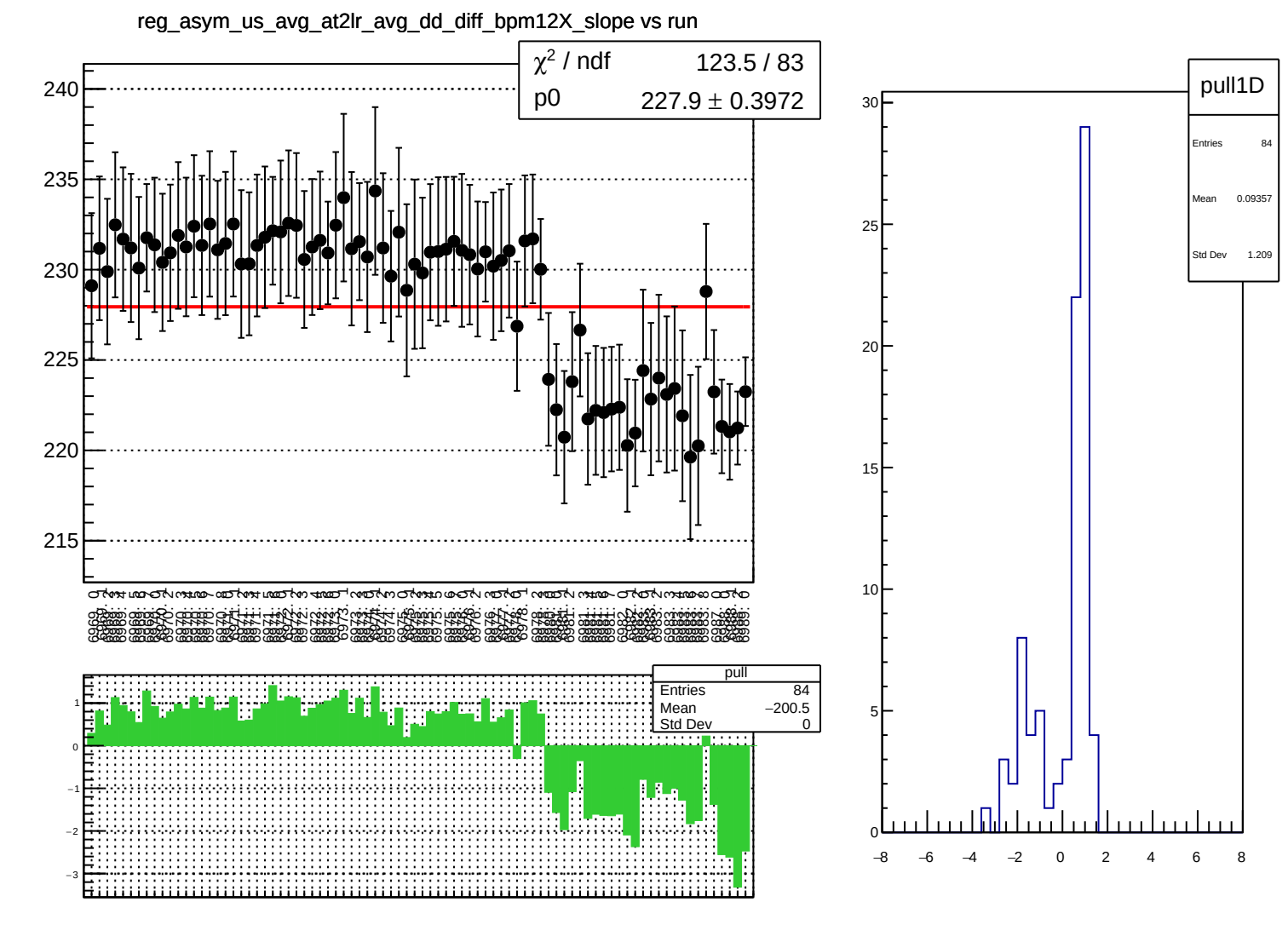

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.226 / 83
p0 −7.455 ± 9.078
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −22.89
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

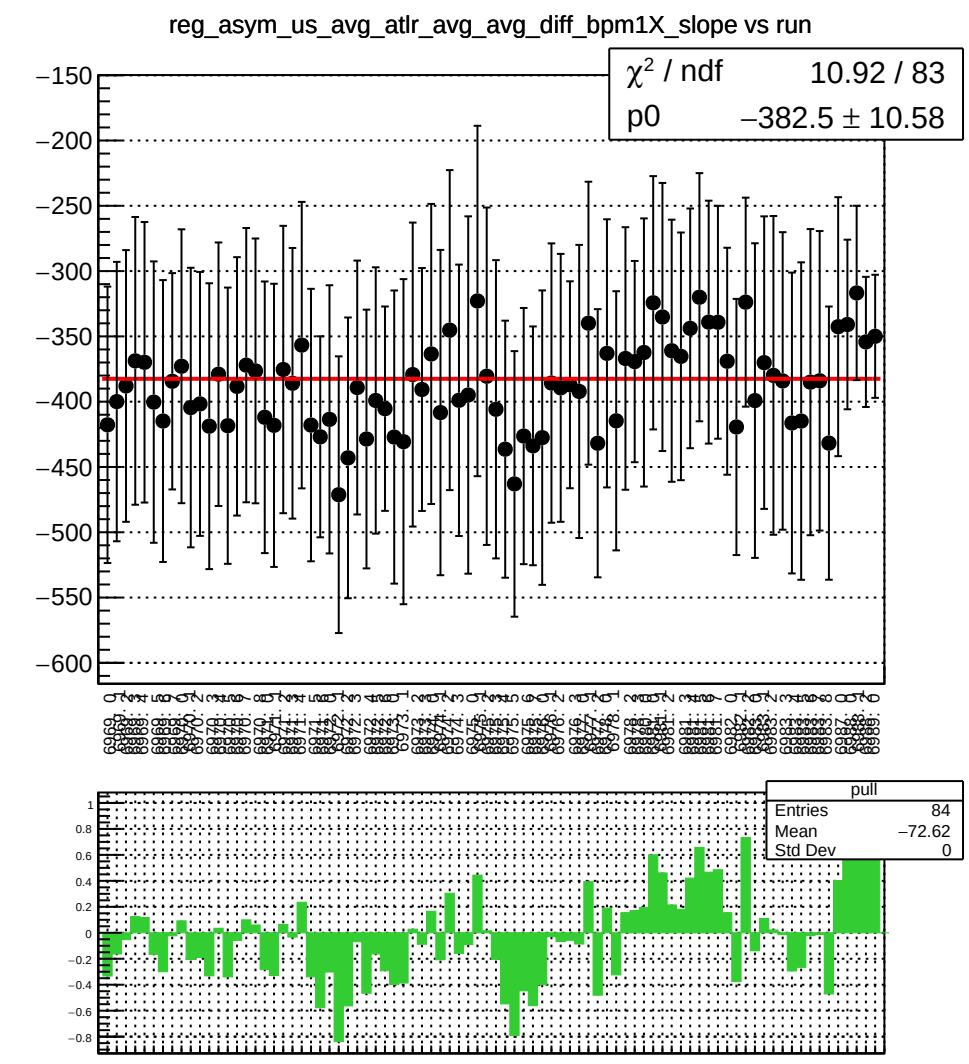

pull1D
Entries 84
Mean −0.008577
Std Dev 0.1626
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

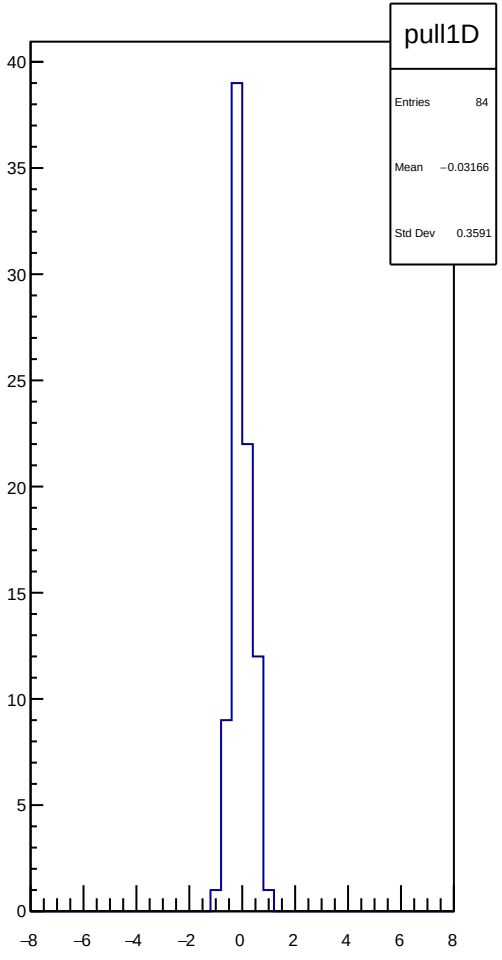

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.646 / 83
p0 −469 ± 12.04
pull
Entries 84
Mean −4.894
Std Dev 0

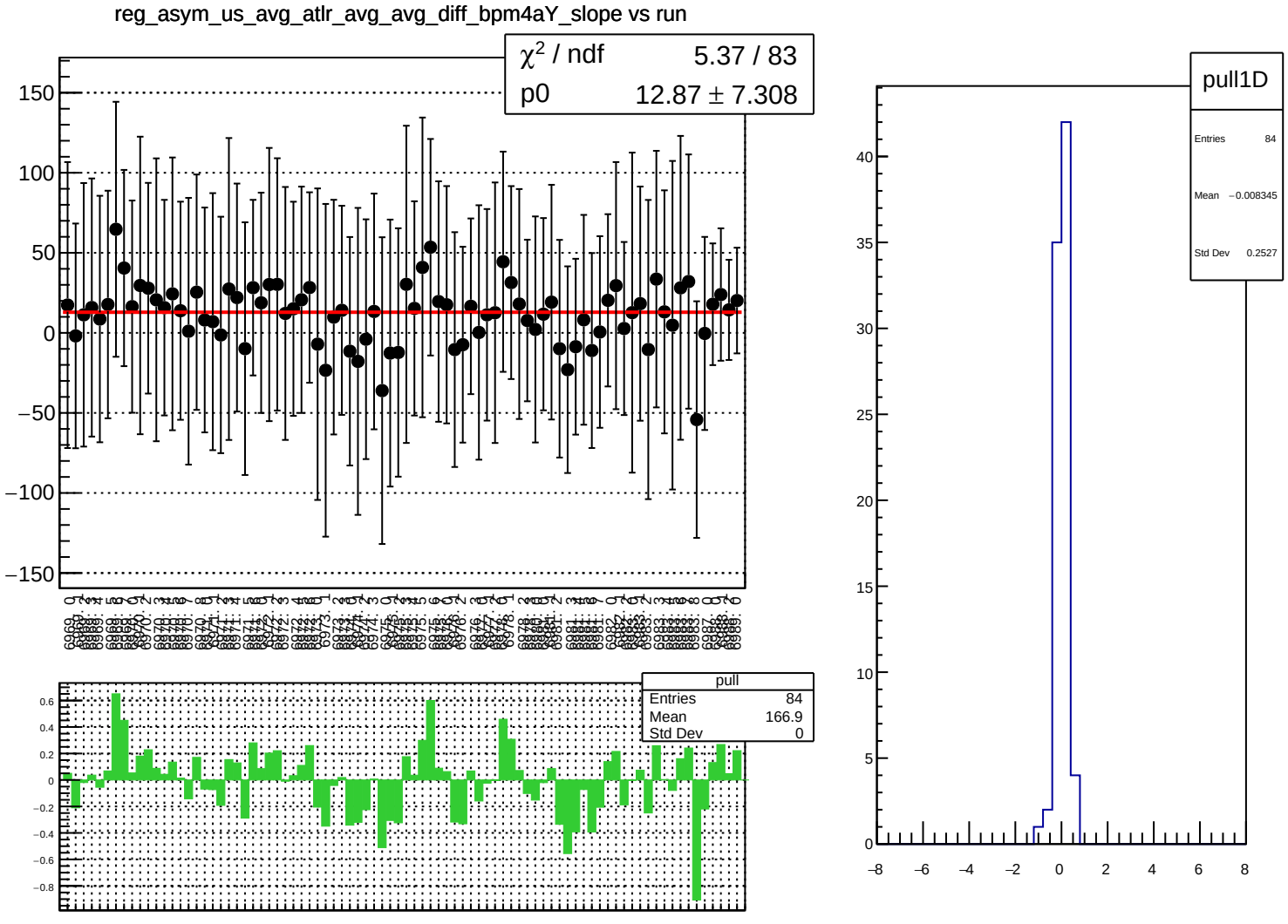

pull1D
Entries 84
Mean −0.04763
Std Dev 0.3355

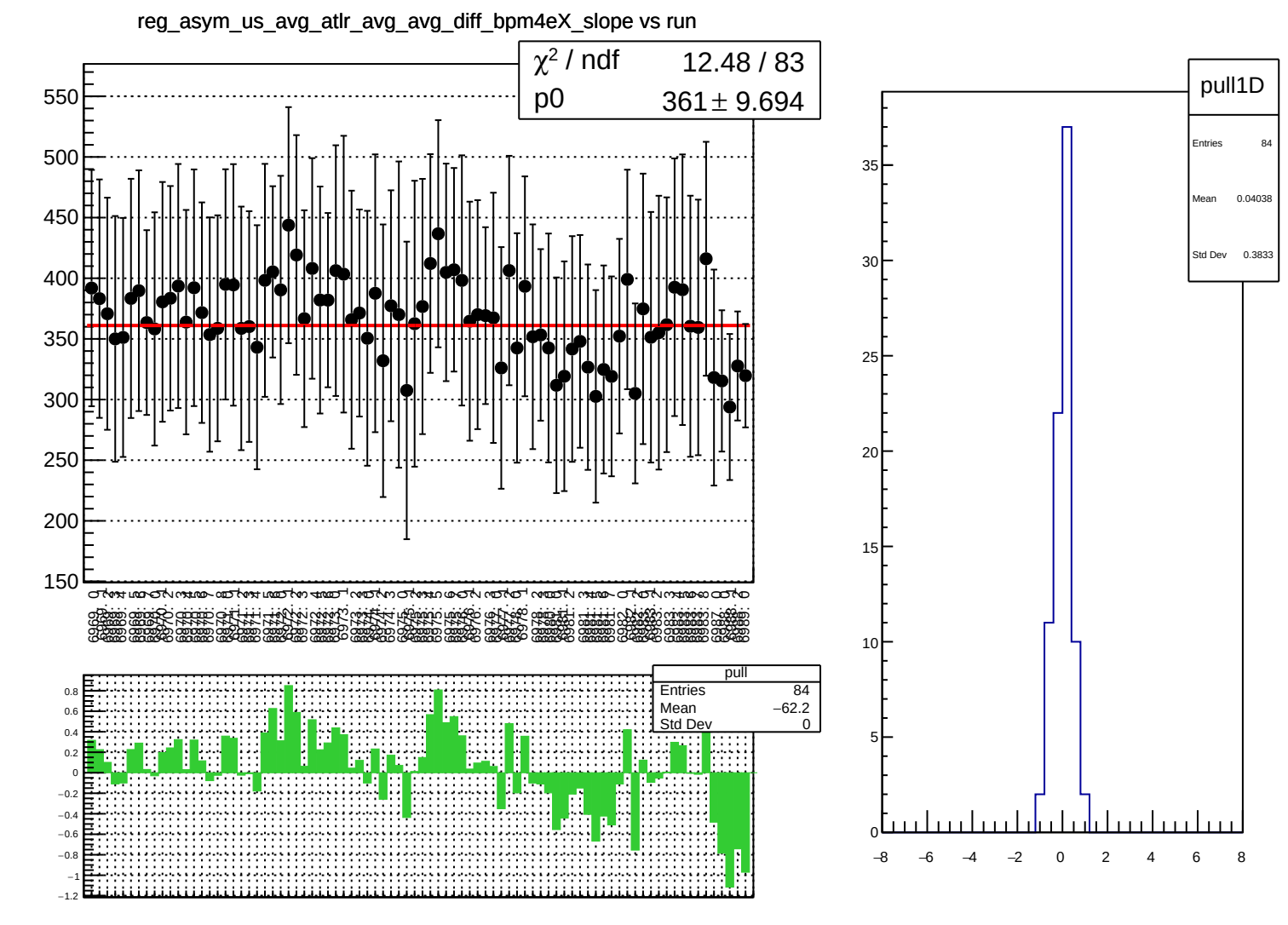

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.186 / 83
p0 −108.4 ± 10.39
pull
Entries 84
Mean 38.18
Std Dev 51.81
pull1D
Entries 84
Mean 0.00609
Std Dev 0.1612

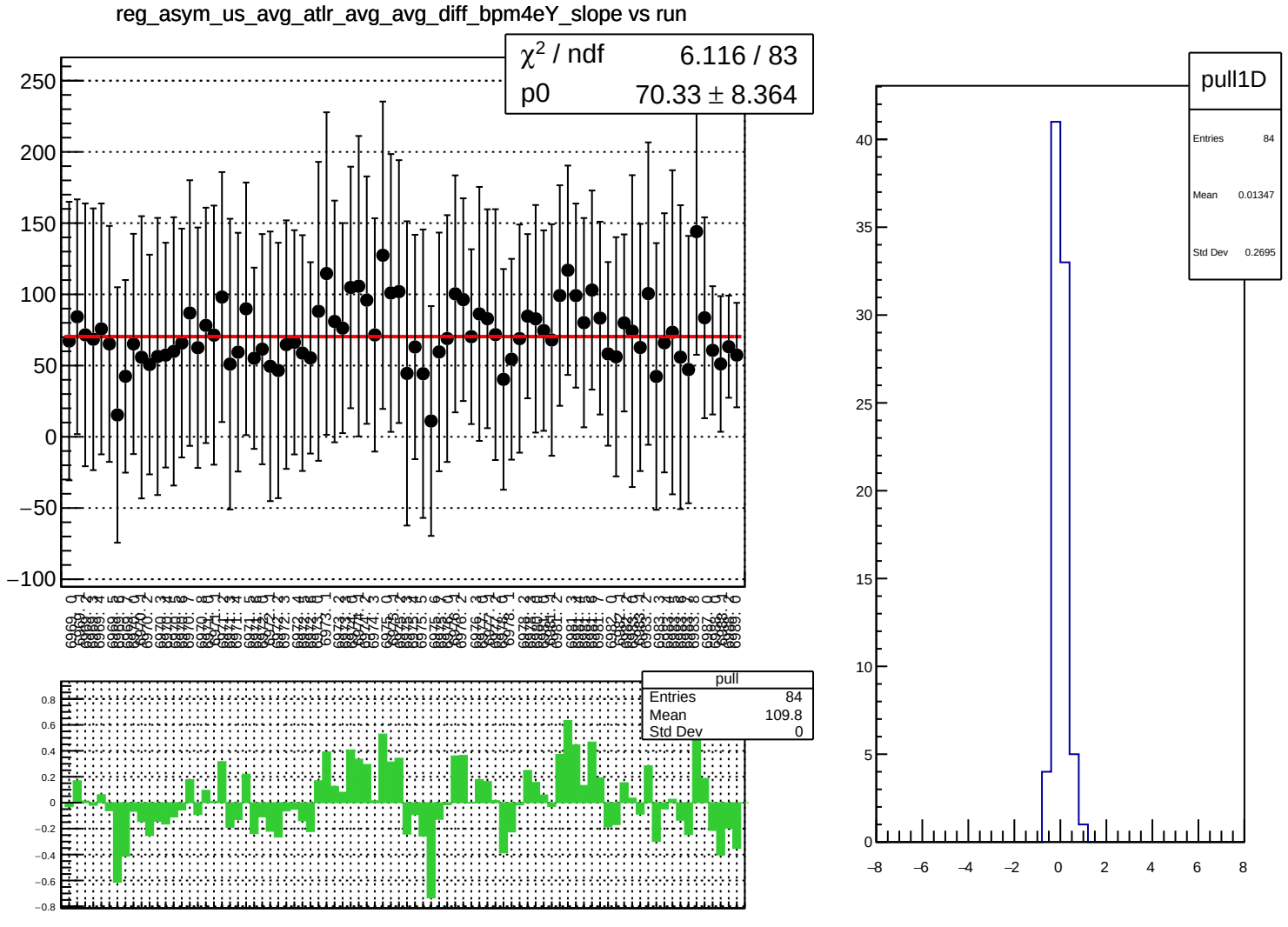

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 123.5 / 83
p0 227.9 ± 0.3972
240
235
230
225
220
215
pull
Entries 84
Mean −200.5
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.09357
Std Dev 1.209
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

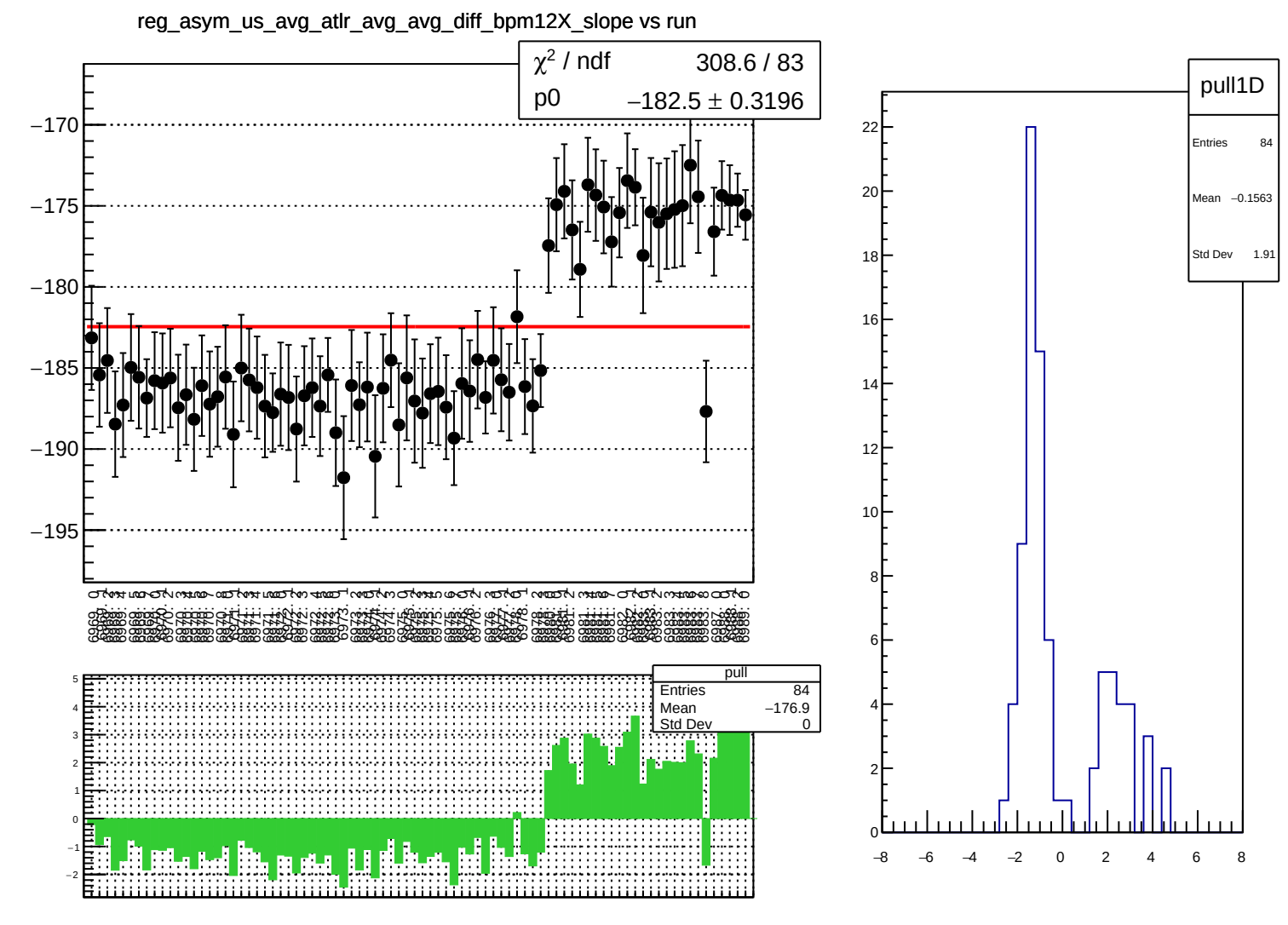

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 10.92 / 83
p0 −382.5 ± 10.58
pull
Entries 84
Mean −72.62
Std Dev 0

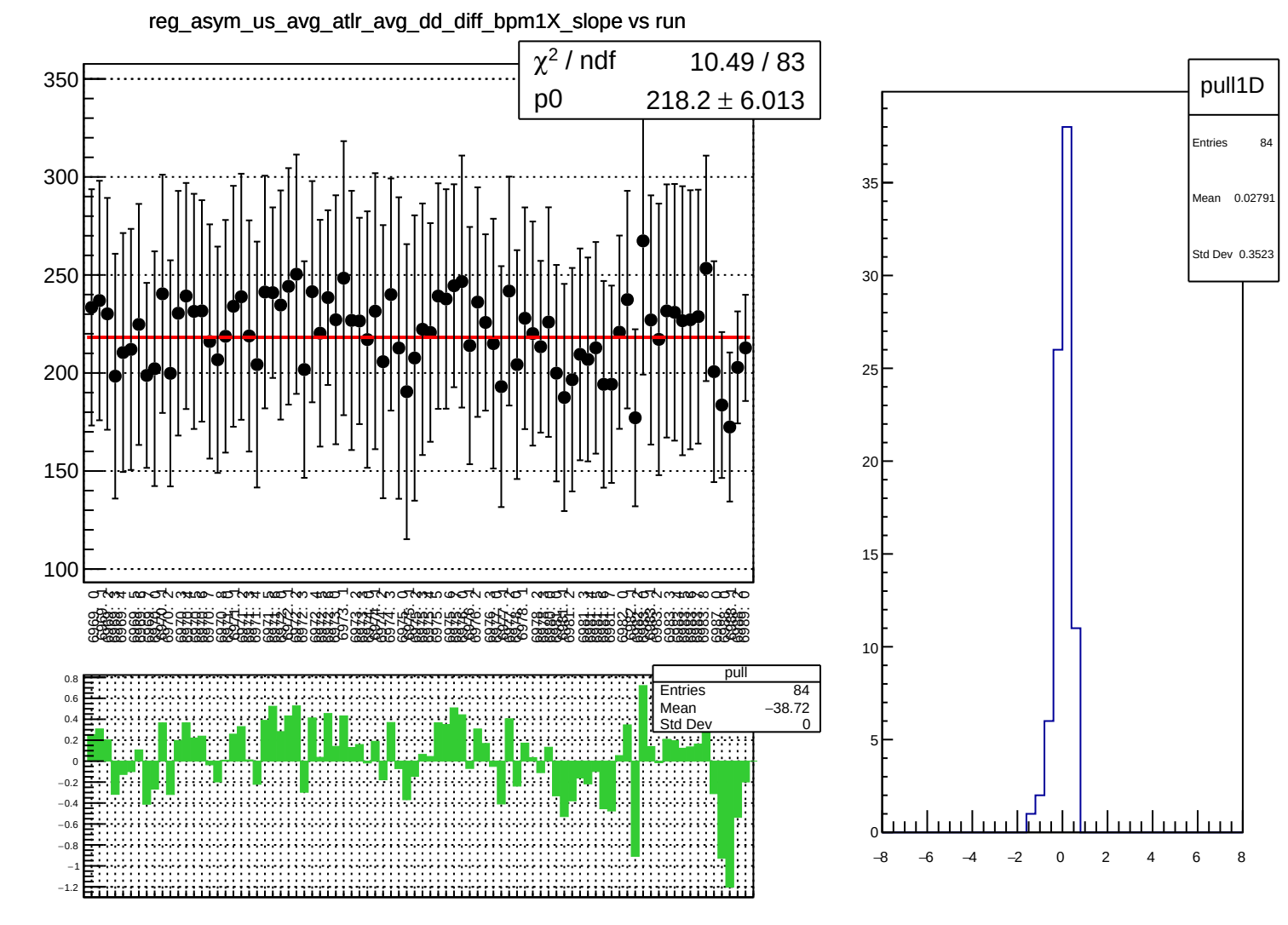

pull1D
Entries 84
Mean −0.03166
Std Dev 0.3591

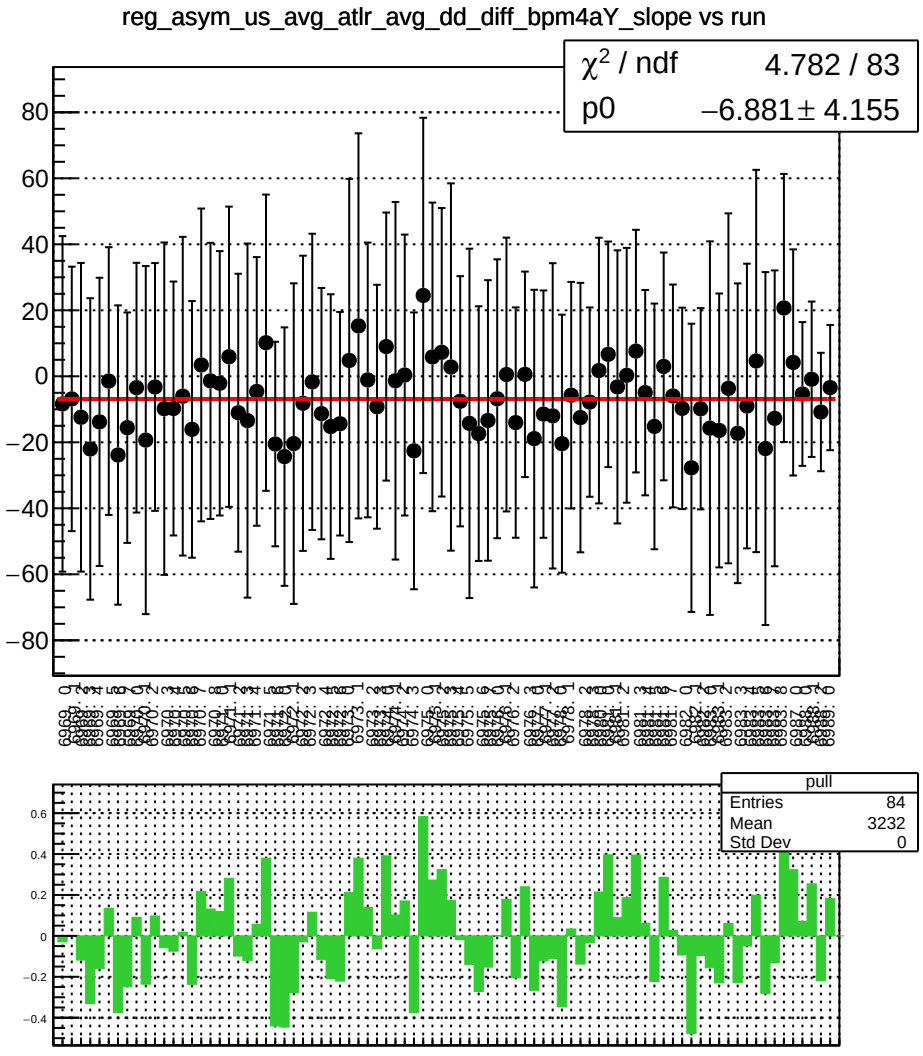

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.37 / 83
p0 12.87 ± 7.308
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 166.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 84
Mean −0.008345
Std Dev 0.2527
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

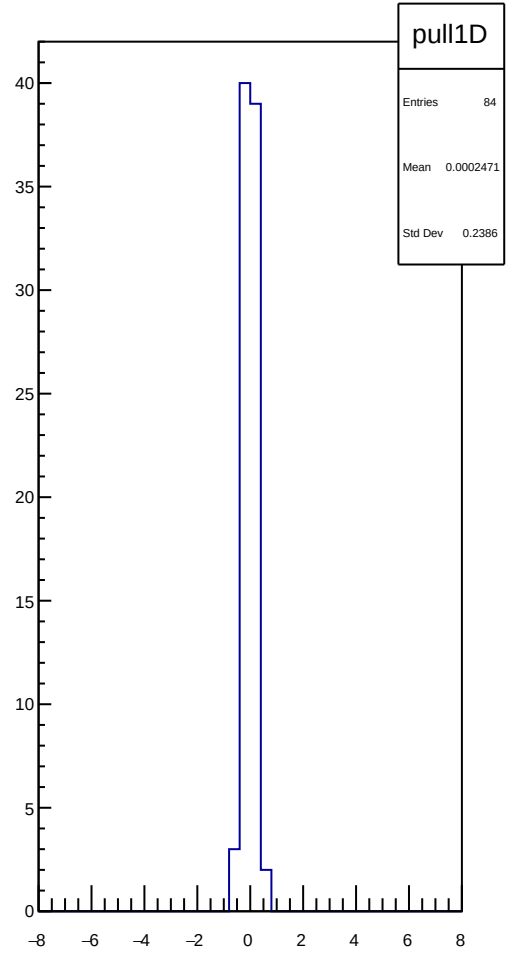

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.48 / 83
p0 361 ± 9.694
pull
Entries 84
Mean −62.2
Std Dev 0
pull1D
Entries 84
Mean 0.04038
Std Dev 0.3833

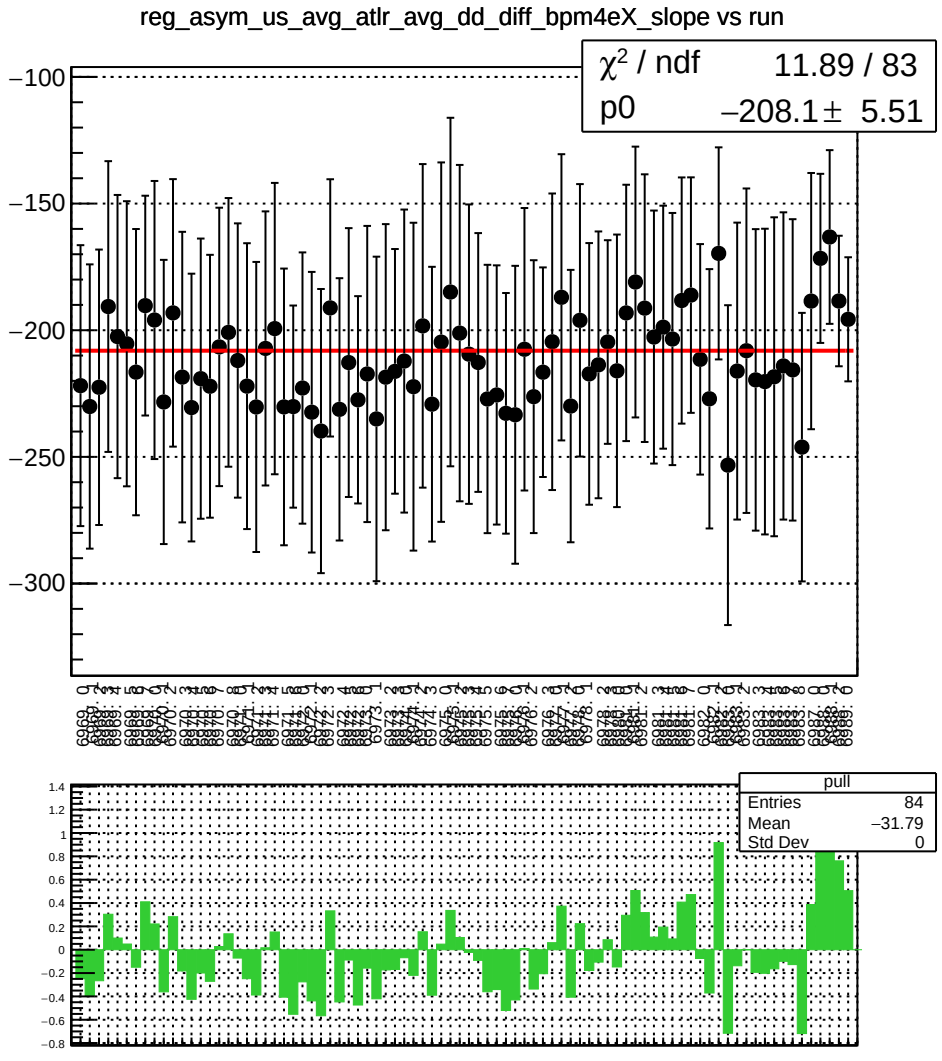

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.116 / 83
p0 70.33 ± 8.364
pull
Entries 84
Mean 109.8
Std Dev 0
pull1D
Entries 84
Mean 0.01347
Std Dev 0.2695

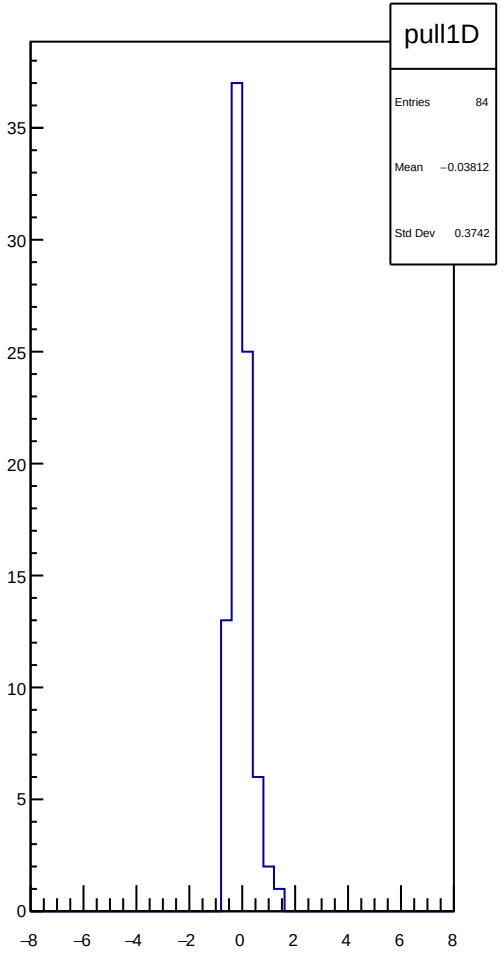

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 308.6 / 83
p0 −182.5 ± 0.3196
pull
Entries 84
Mean −176.9
Std Dev 0
pull1D
Entries 84
Mean −0.1563
Std Dev 1.91

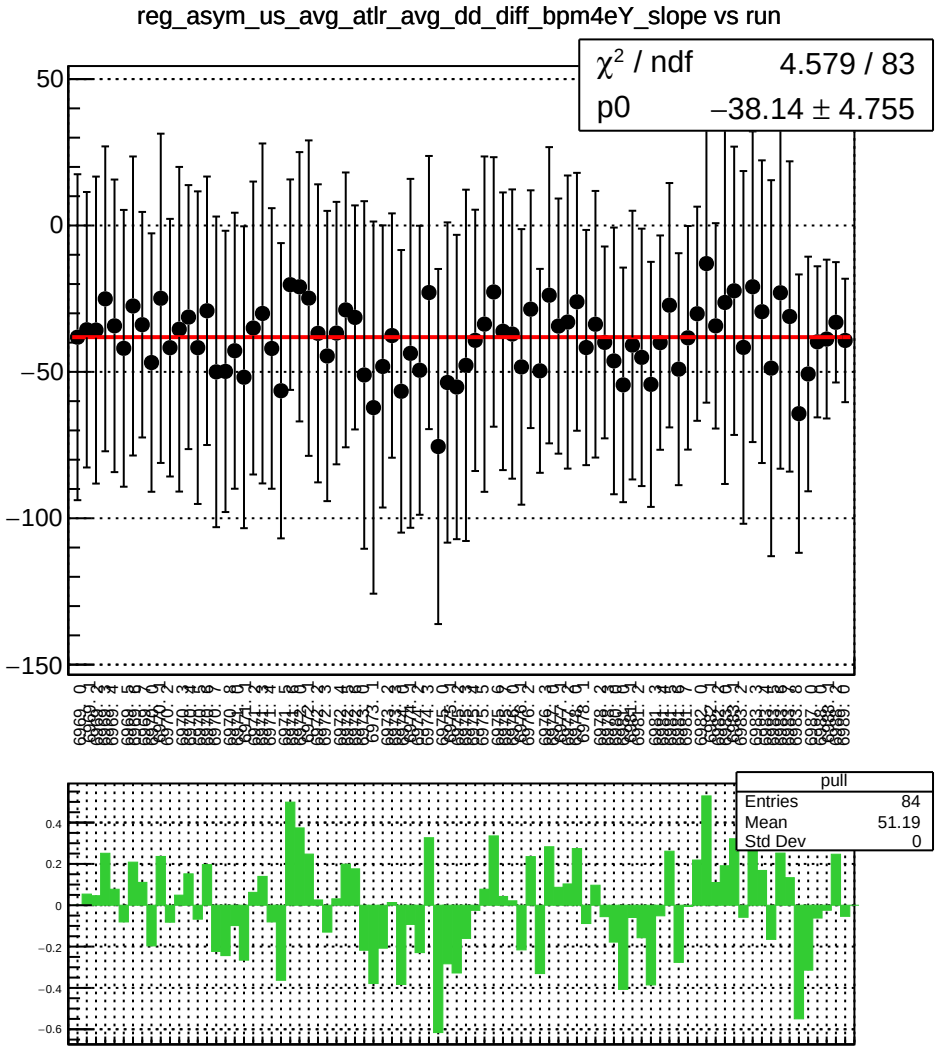

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 10.49 / 83
p0 218.2 ± 6.013
pull
Entries 84
Mean −38.72
Std Dev 0
pull1D
Entries 84
Mean 0.02791
Std Dev 0.3523

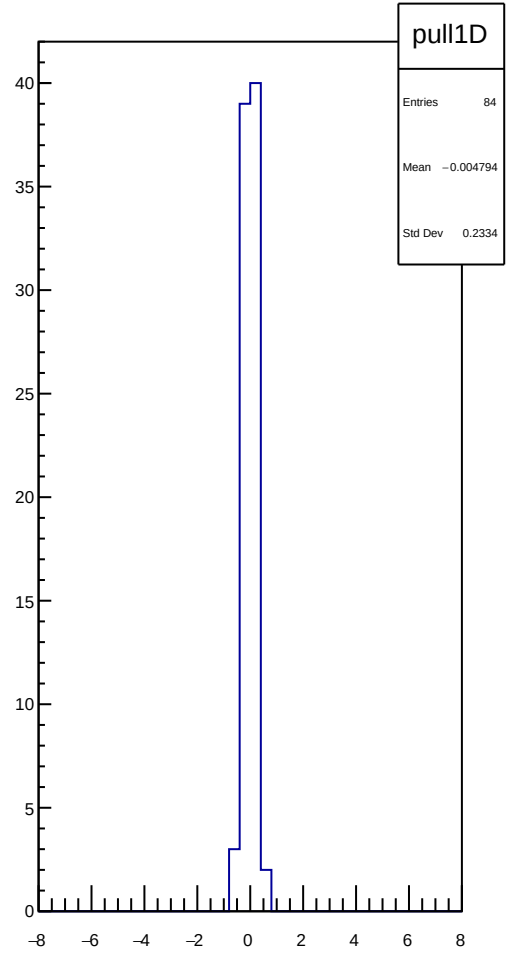

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.782 / 83
p0 −6.881 ± 4.155
pull
Entries 84
Mean 3232
Std Dev 0

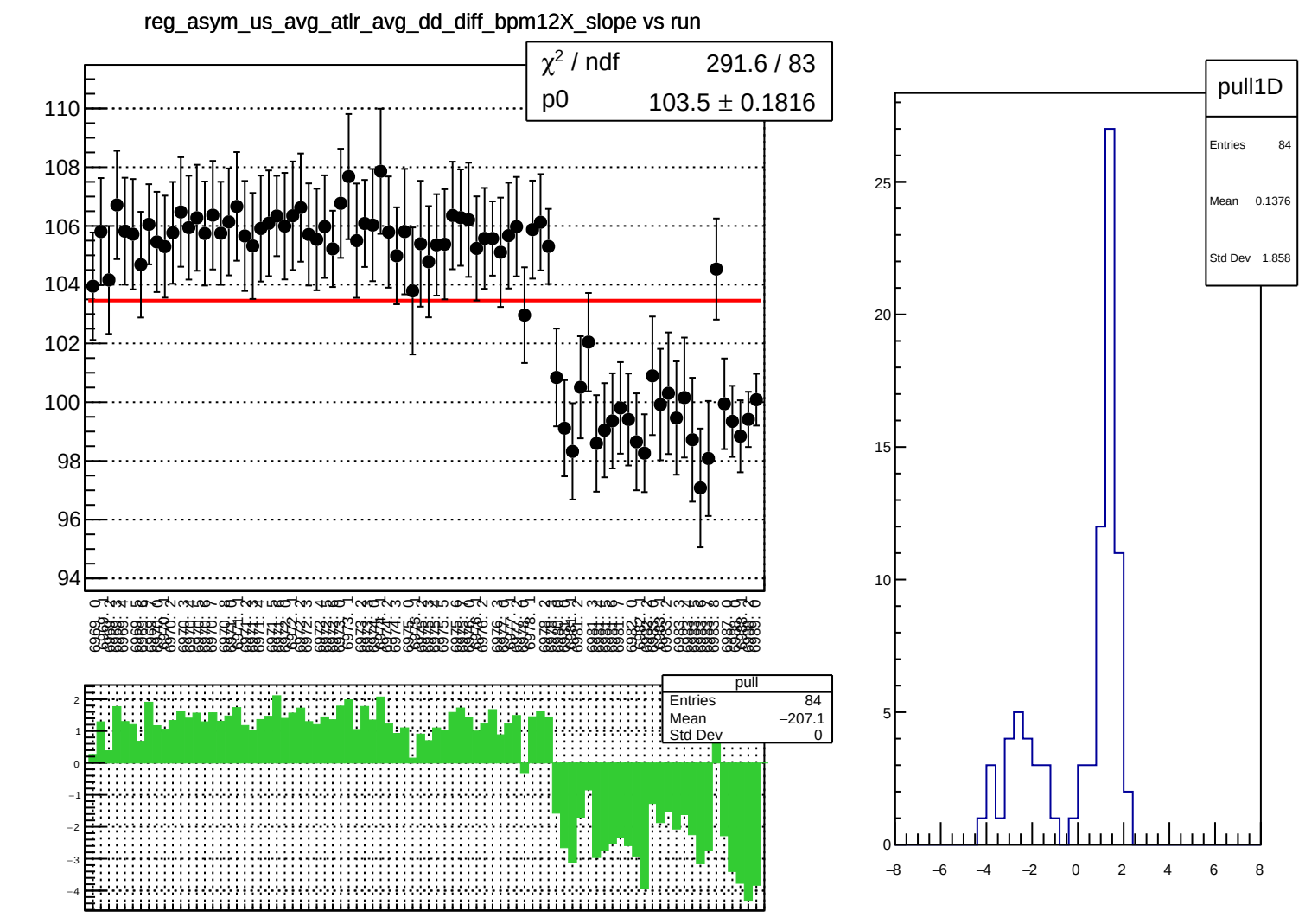

pull1D
Entries 84
Mean 0.0002471
Std Dev 0.2386

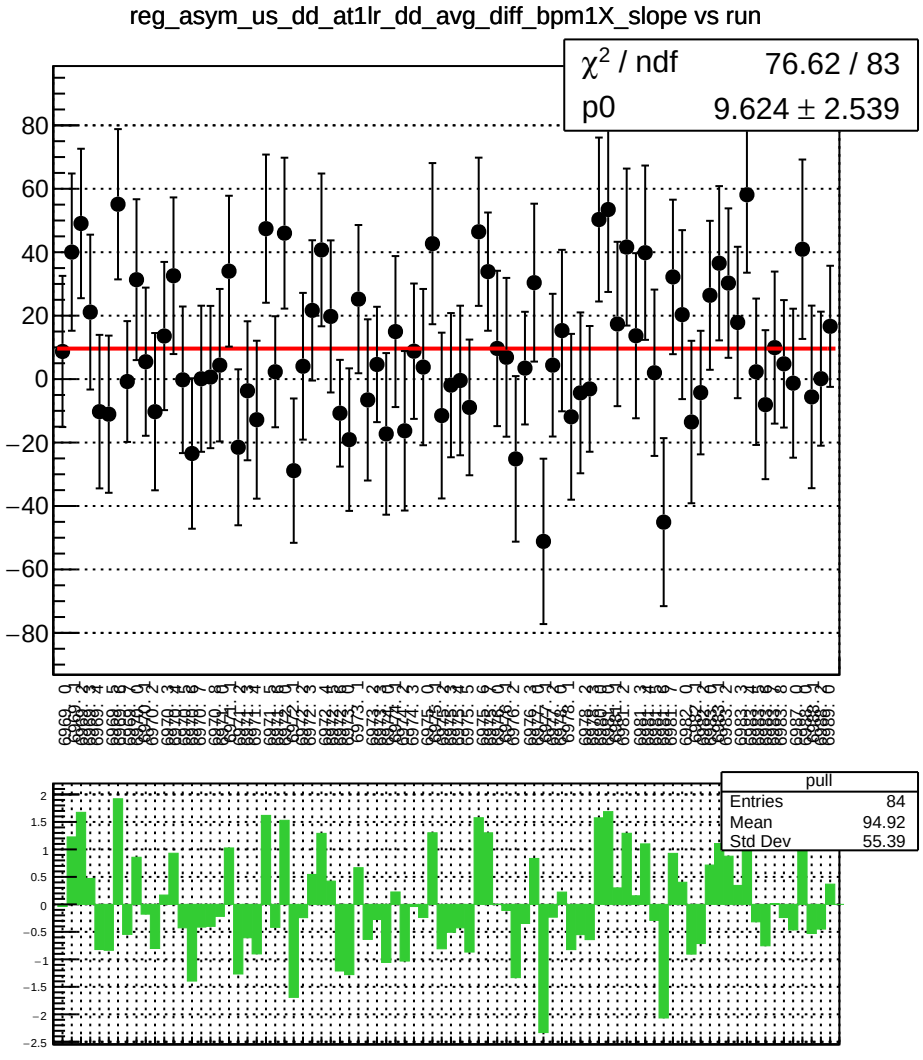

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.89 / 83
p0 −208.1 ± 5.51
−100
−150
−200
−250
−300
pull
Entries 84
Mean −31.79
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

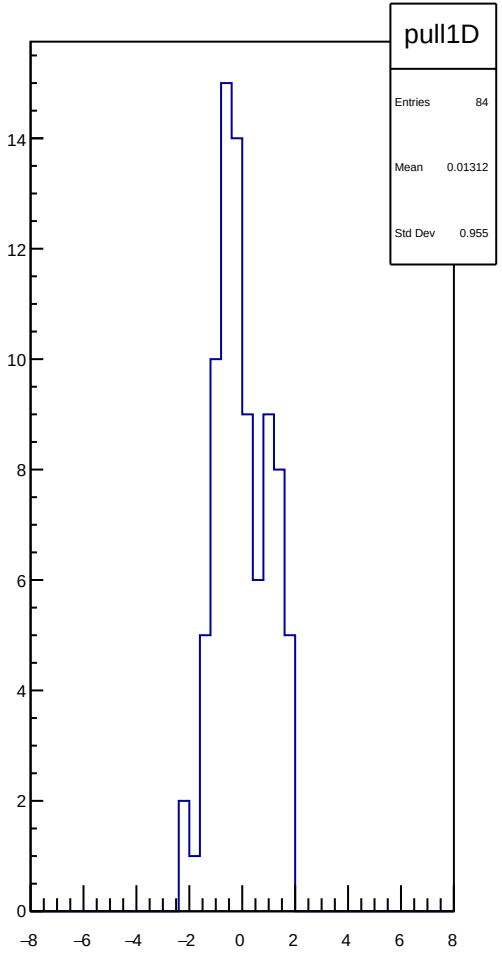

pull1D
Entries 84
Mean −0.03812
Std Dev 0.3742
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

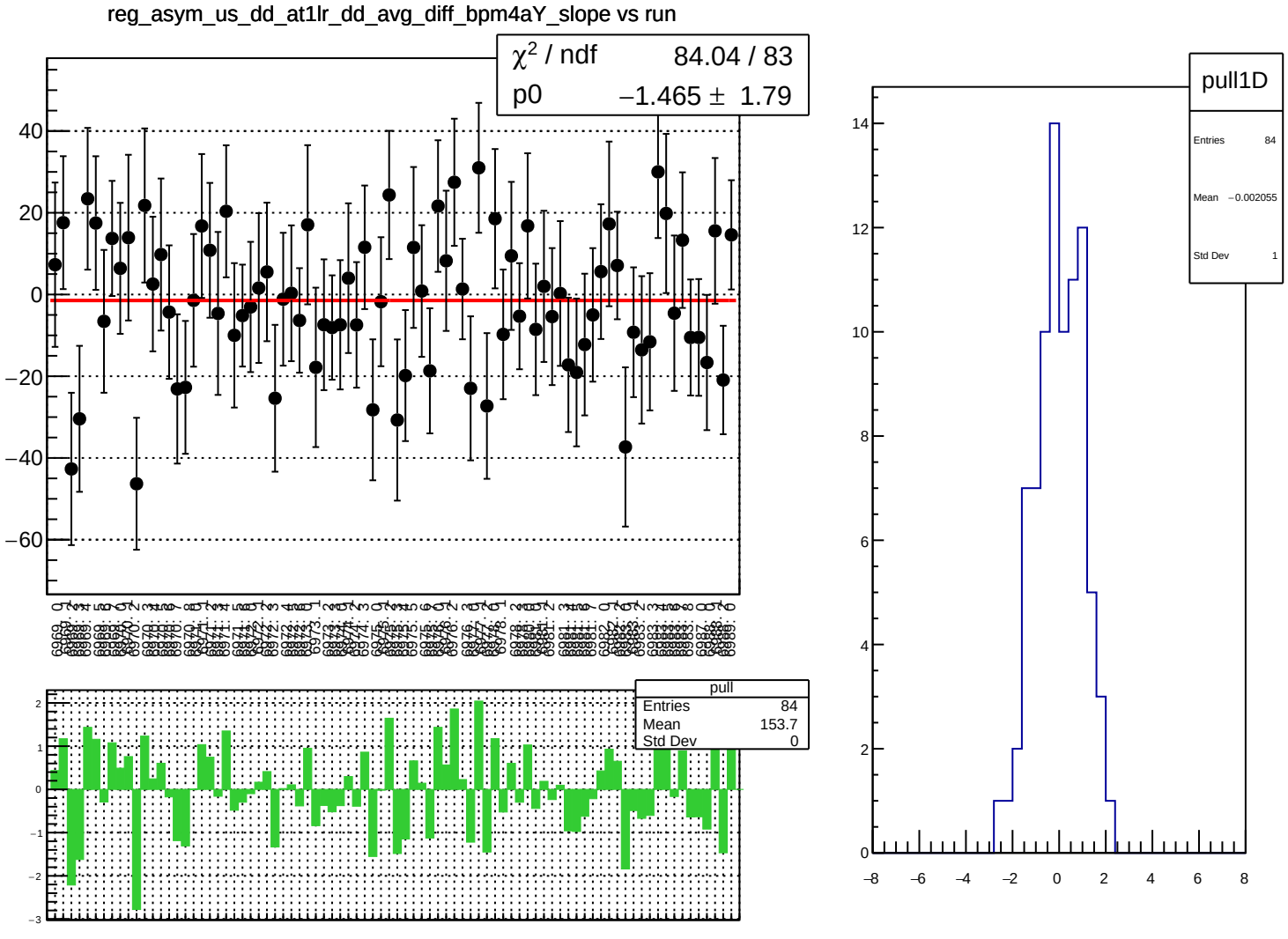

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.579 / 83
p0 −38.14 ± 4.755
pull
Entries 84
Mean 51.19
Std Dev 0

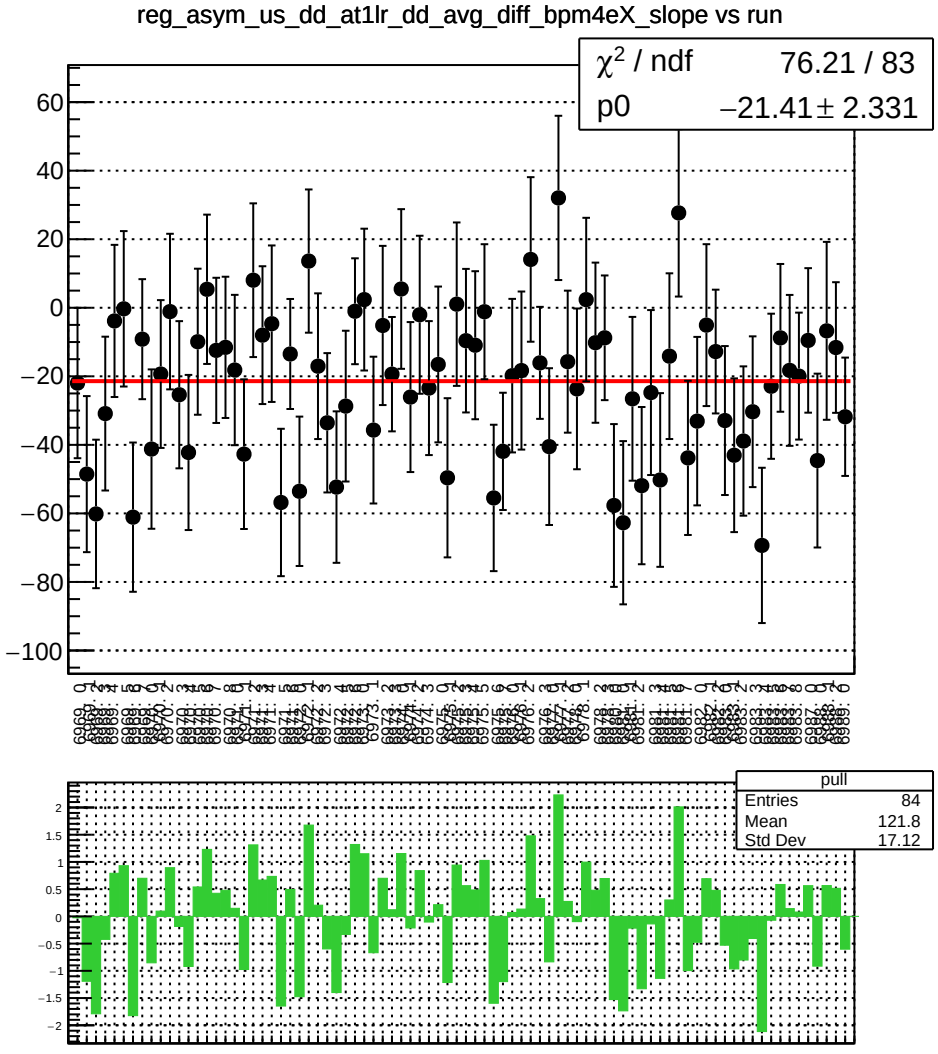

pull1D
Entries 84
Mean −0.004794
Std Dev 0.2334

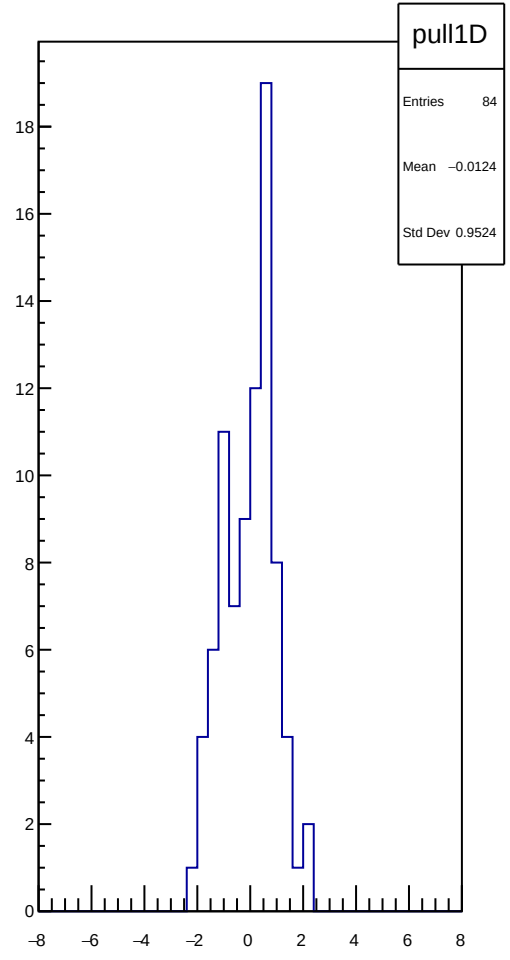

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 291.6 / 83
p0 103.5 ± 0.1816
pull
Entries 84
Mean −207.1
Std Dev 0
pull1D
Entries 84
Mean 0.1376
Std Dev 1.858

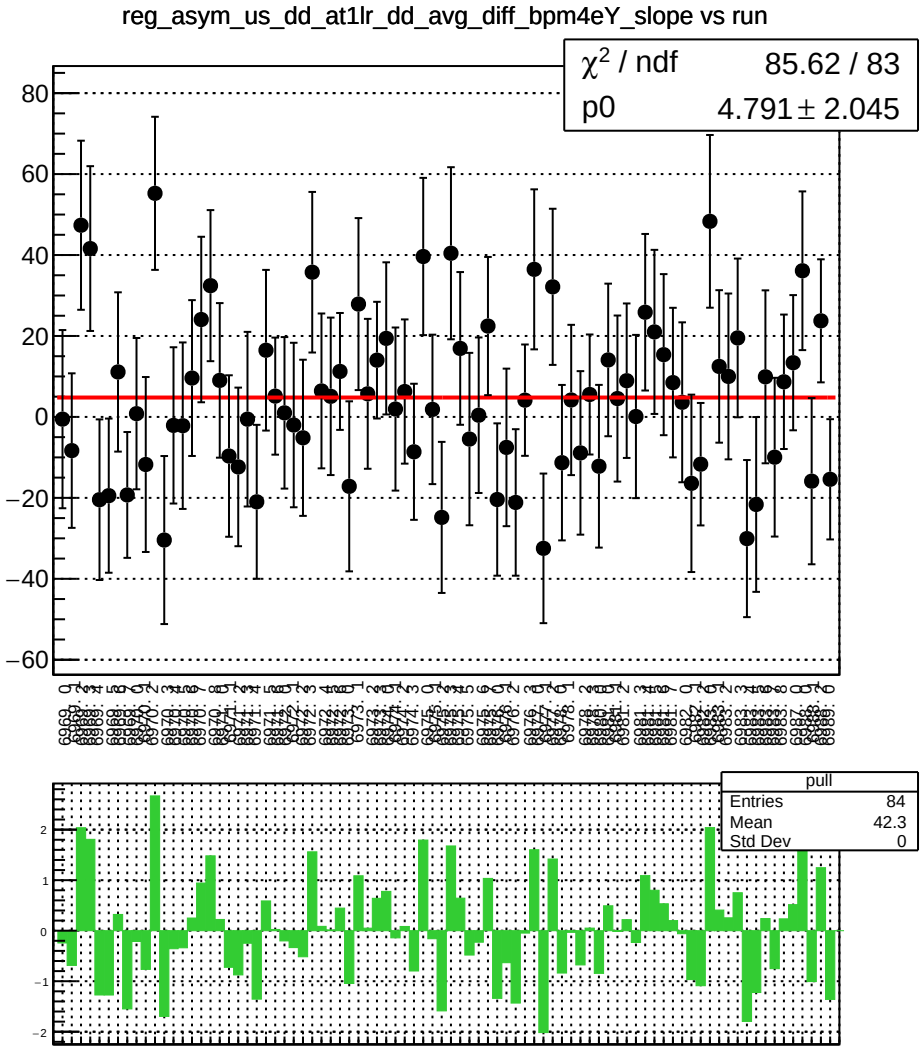

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 76.62 / 83
p0 9.624 ± 2.539
pull
Entries 84
Mean 94.92
Std Dev 55.39

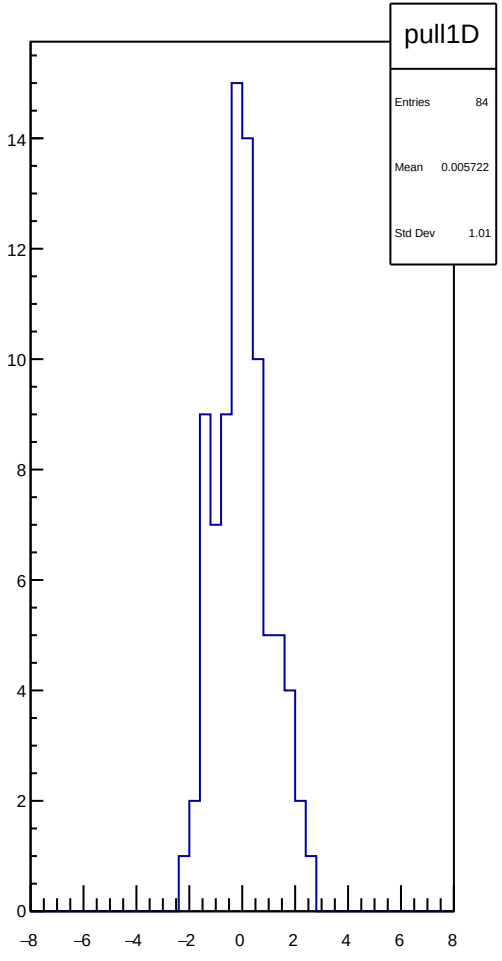

pull1D
Entries 84
Mean 0.01312
Std Dev 0.955

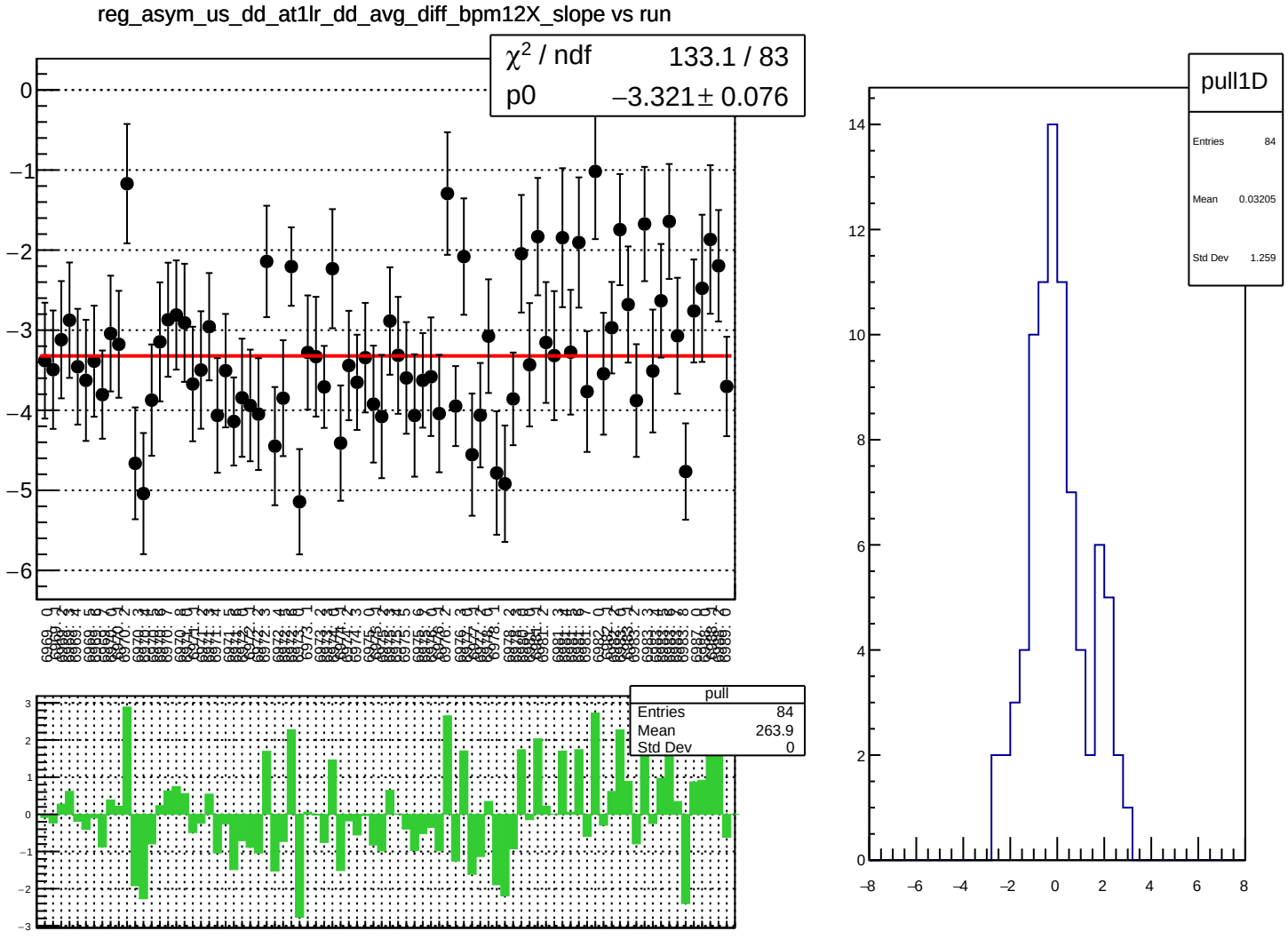

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.04 / 83
p0 −1.465 ± 1.79
pull
Entries 84
Mean 153.7
Std Dev 0
pull1D
Entries 84
Mean −0.002055
Std Dev 1

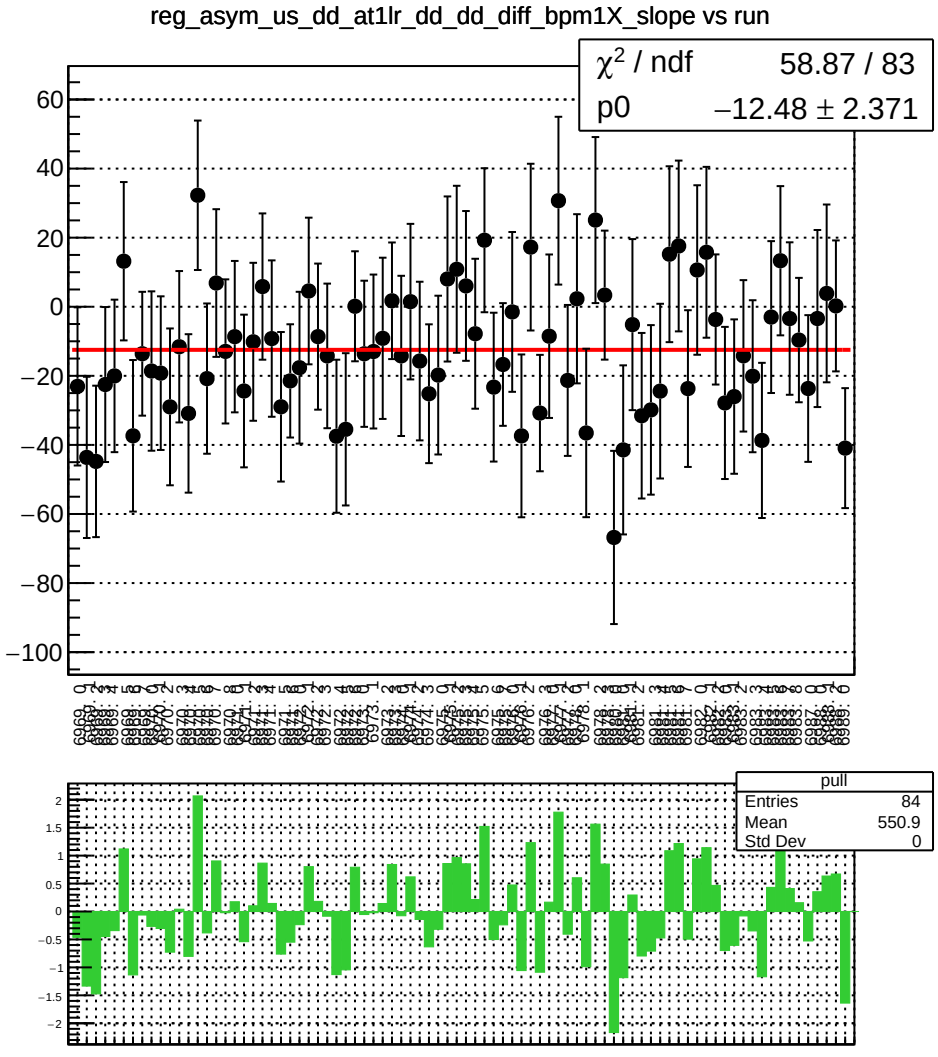

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.21 / 83
p0 −21.41 ± 2.331
pull
Entries 84
Mean 121.8
Std Dev 17.12

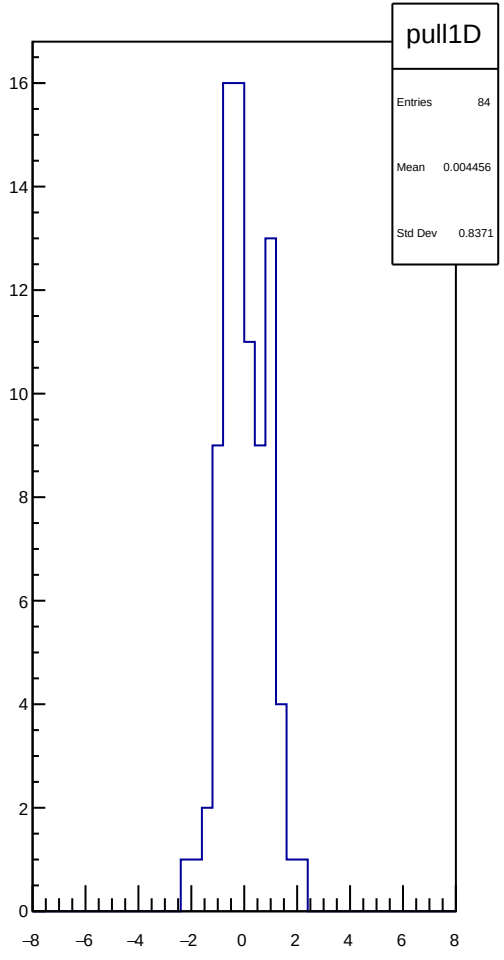

pull1D
Entries 84
Mean −0.0124
Std Dev 0.9524

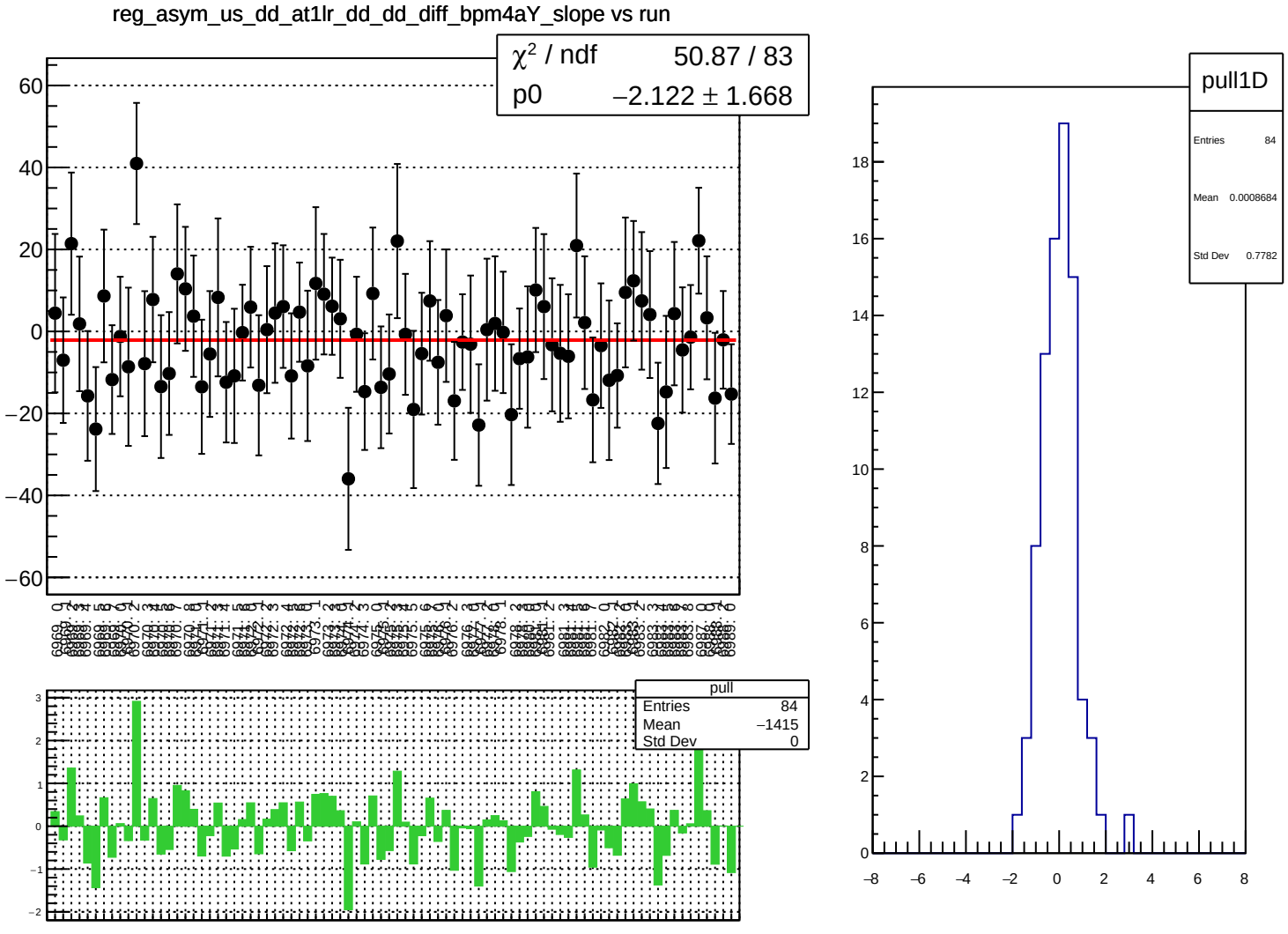

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.62 / 83
p0 4.791 ± 2.045
pull
Entries 84
Mean 42.3
Std Dev 0

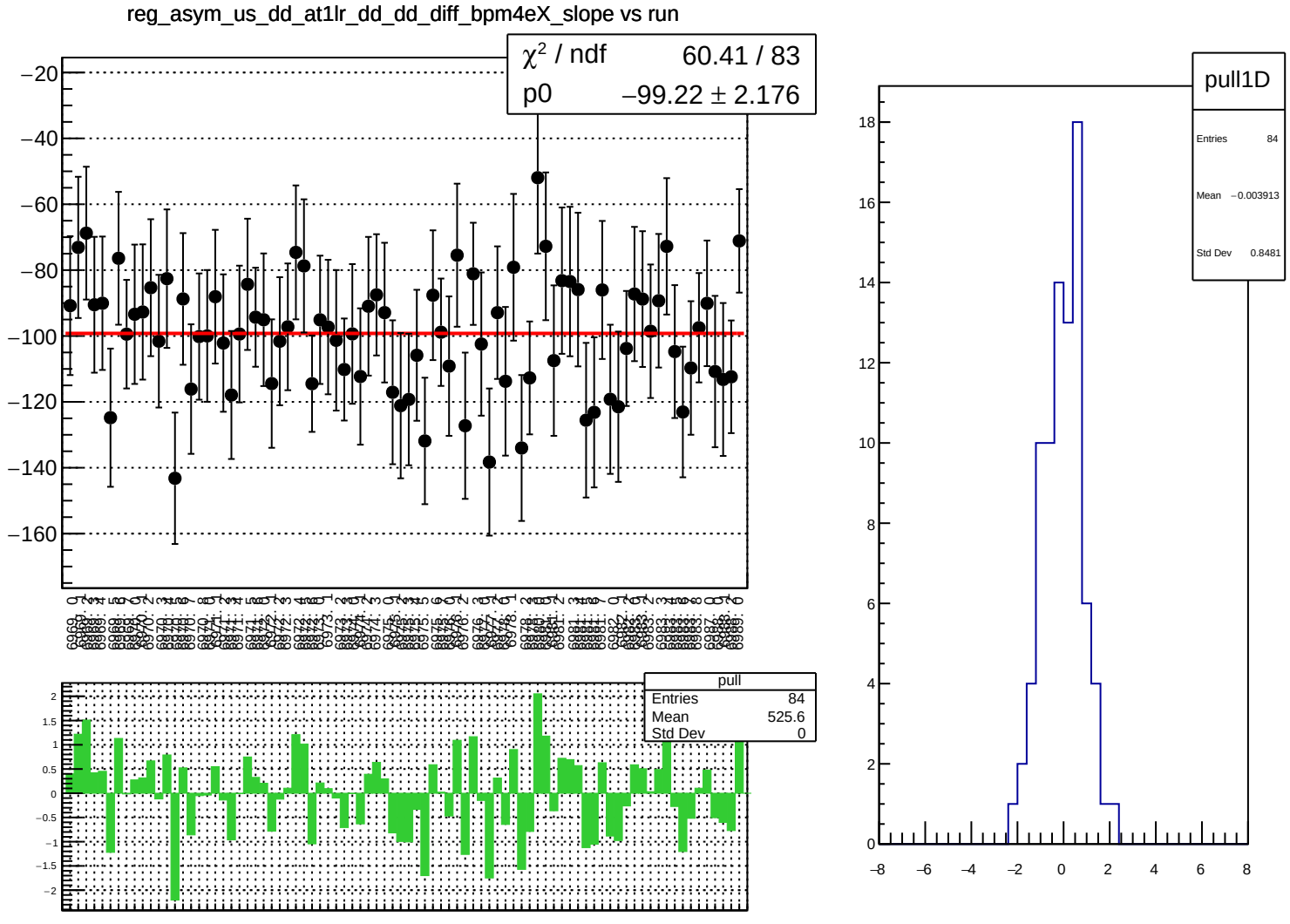

pull1D
Entries 84
Mean 0.005722
Std Dev 1.01

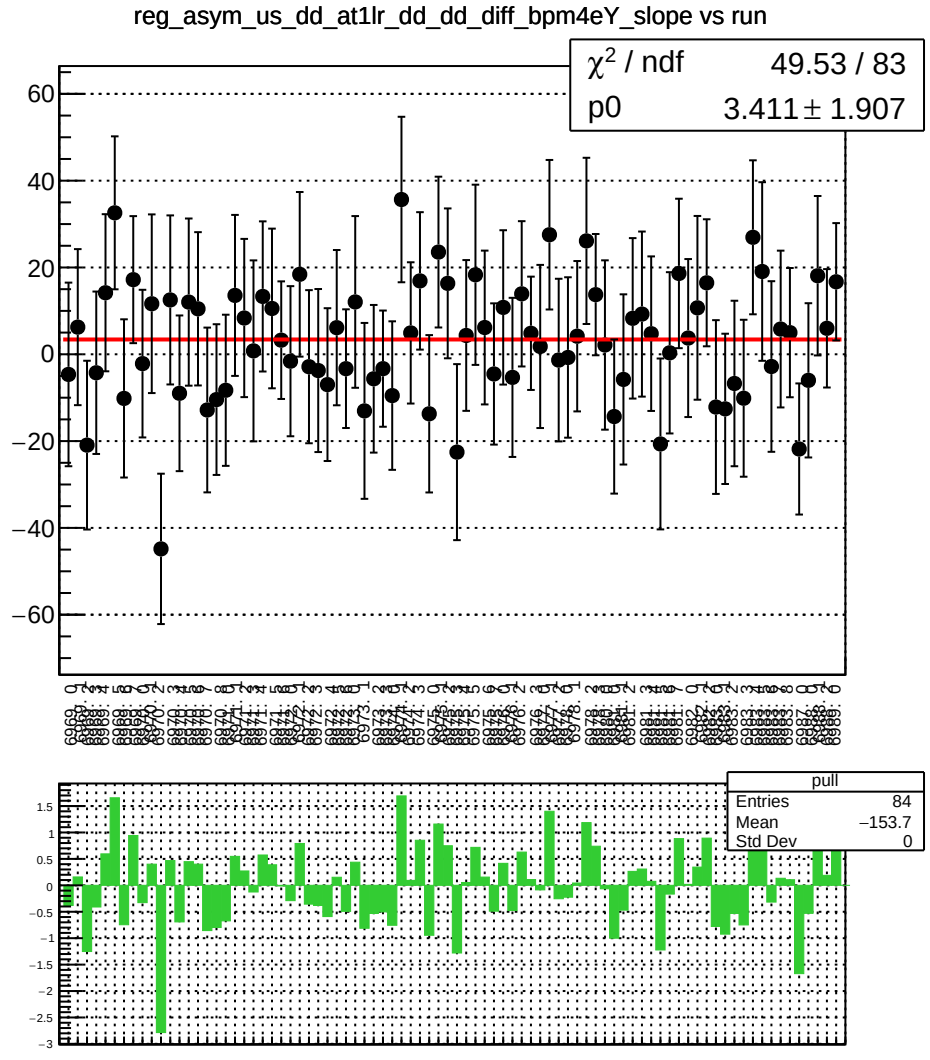

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 133.1 / 83
p0 −3.321 ± 0.076
pull
Entries 84
Mean 263.9
Std Dev 0
pull1D
Entries 84
Mean 0.03205
Std Dev 1.259

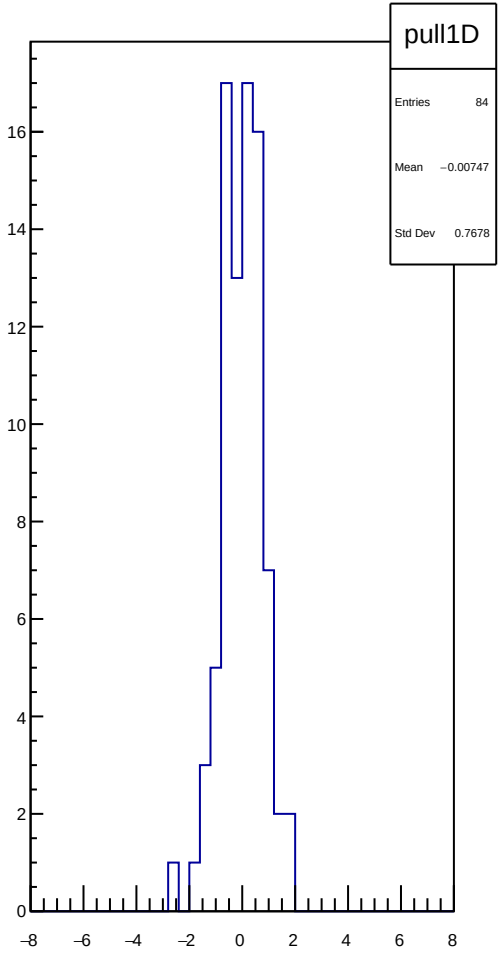

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 58.87 / 83
p0 −12.48 ± 2.371
pull
Entries 84
Mean 550.9
Std Dev 0

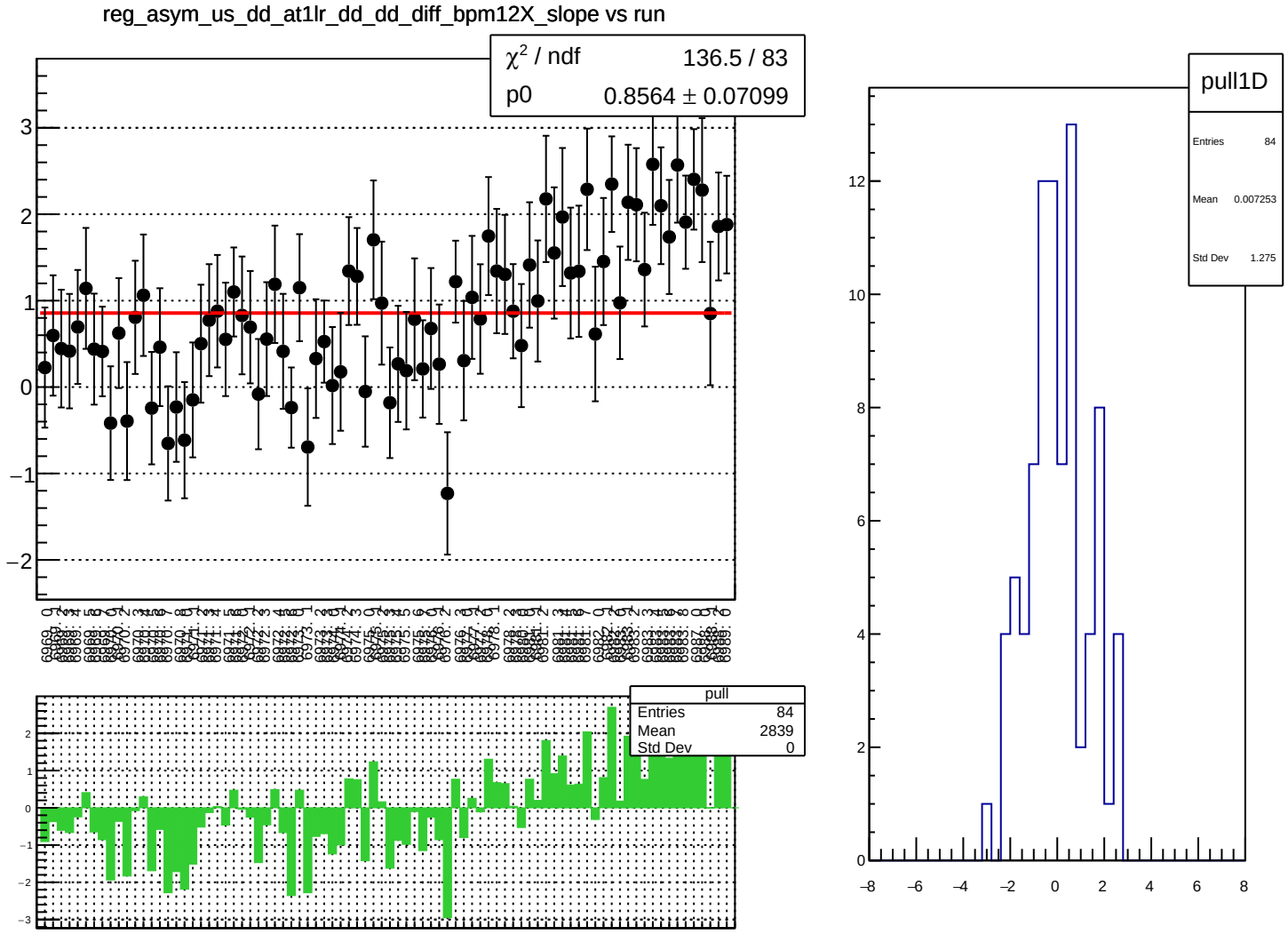

pull1D
Entries 84
Mean 0.004456
Std Dev 0.8371

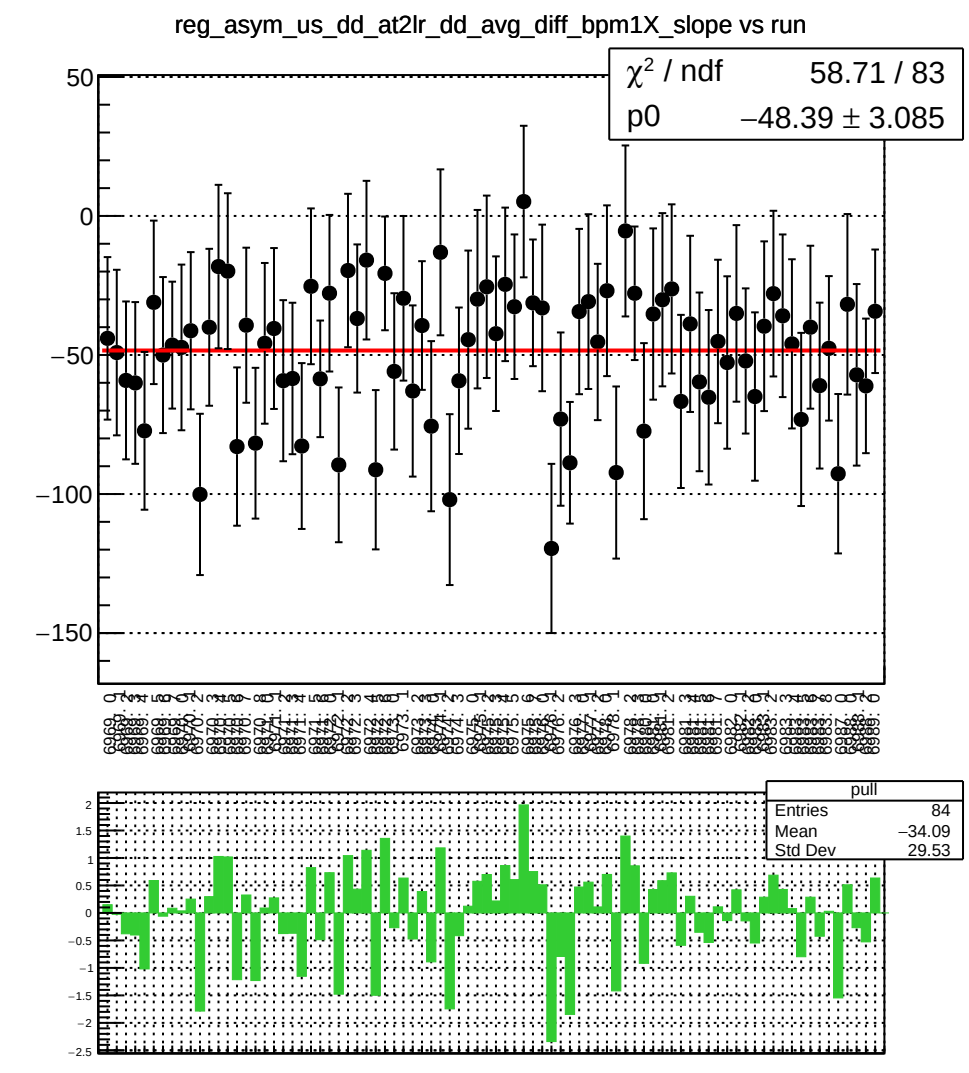

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.87 / 83
p0 −2.122 ± 1.668
pull
Entries 84
Mean −1415
Std Dev 0
pull1D
Entries 84
Mean 0.0008684
Std Dev 0.7782

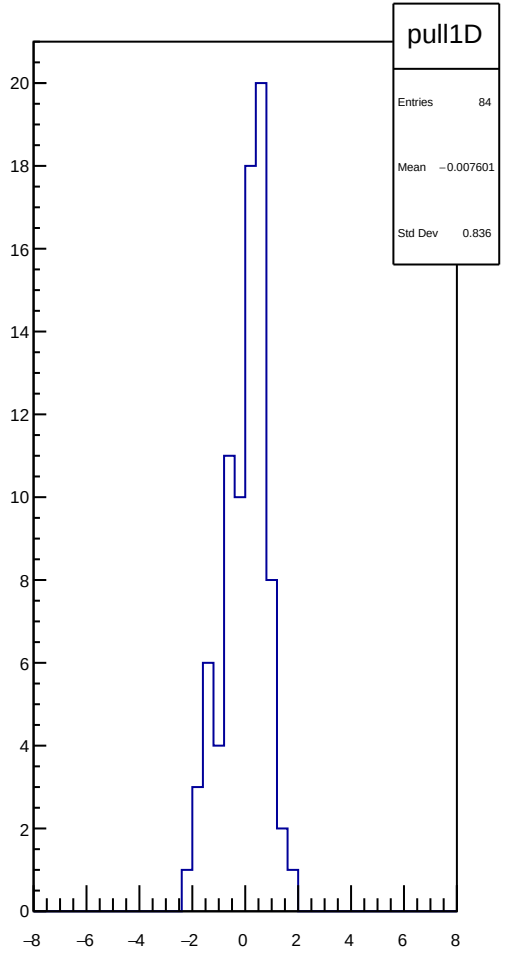

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.41 / 83
p0 −99.22 ± 2.176
pull
Entries 84
Mean 525.6
Std Dev 0
pull1D
Entries 84
Mean −0.003913
Std Dev 0.8481

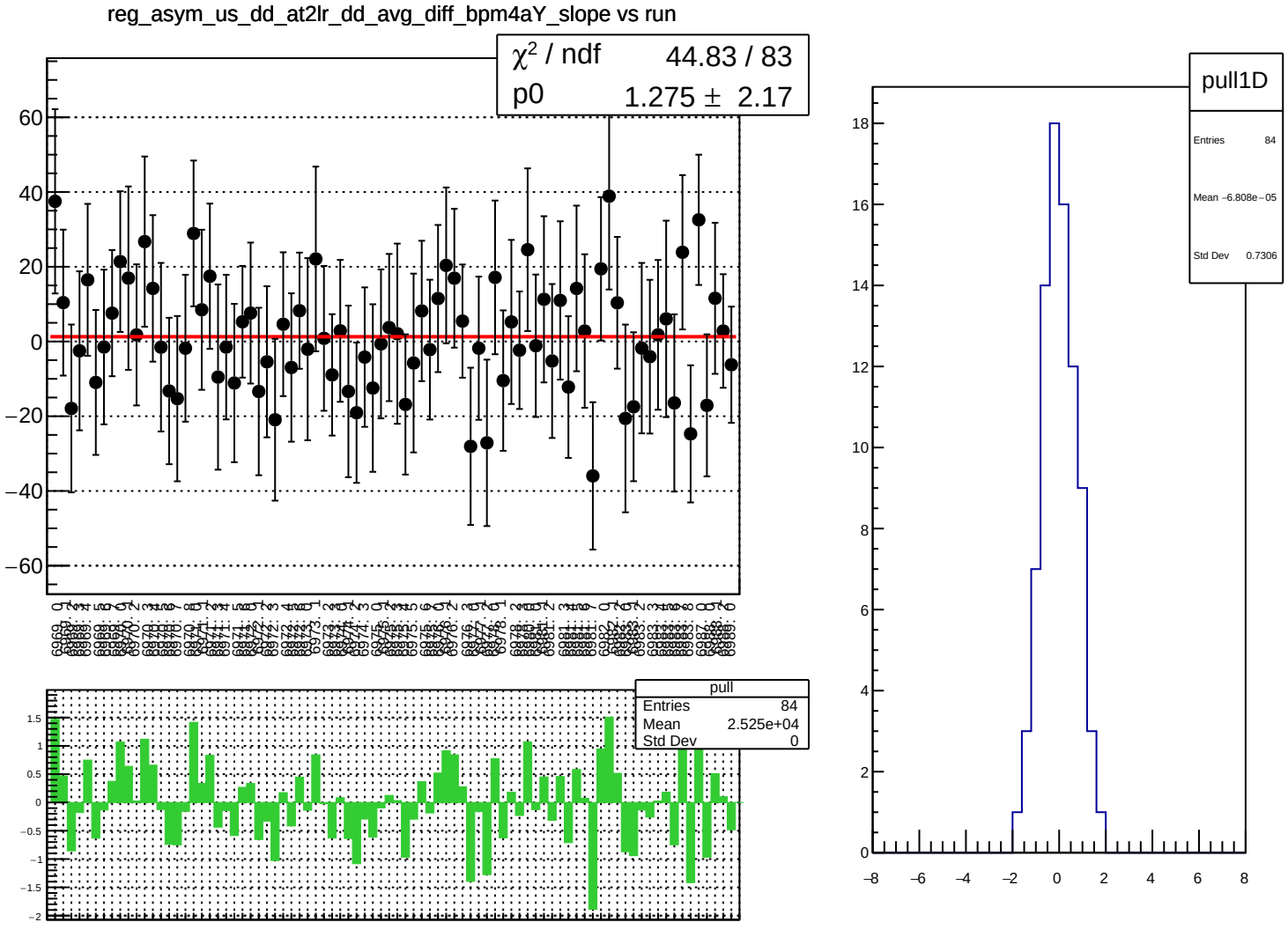

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.53 / 83
p0 3.411 ± 1.907
pull
Entries 84
Mean −153.7
Std Dev 0

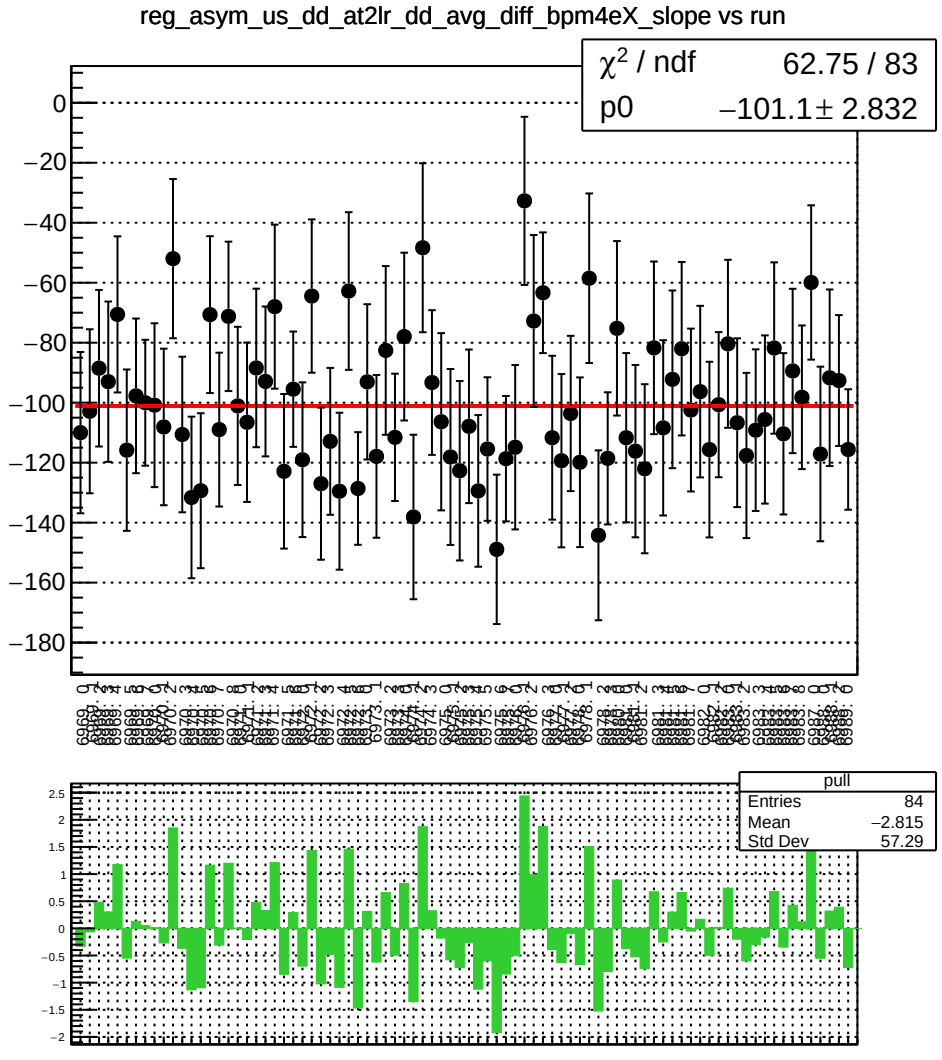

pull1D
Entries 84
Mean −0.00747
Std Dev 0.7678

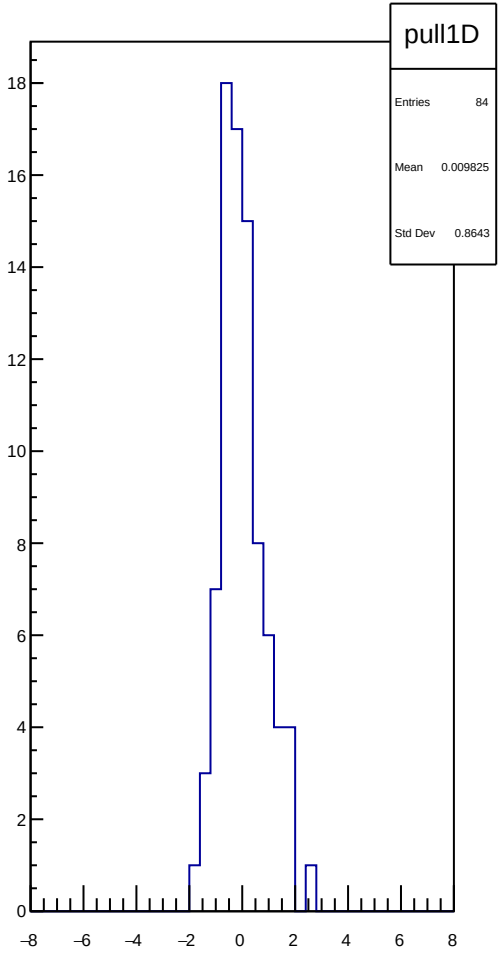

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 136.5 / 83
p0 0.8564 ± 0.07099
pull
Entries 84
Mean 2839
Std Dev 0
pull1D
Entries 84
Mean 0.007253
Std Dev 1.275

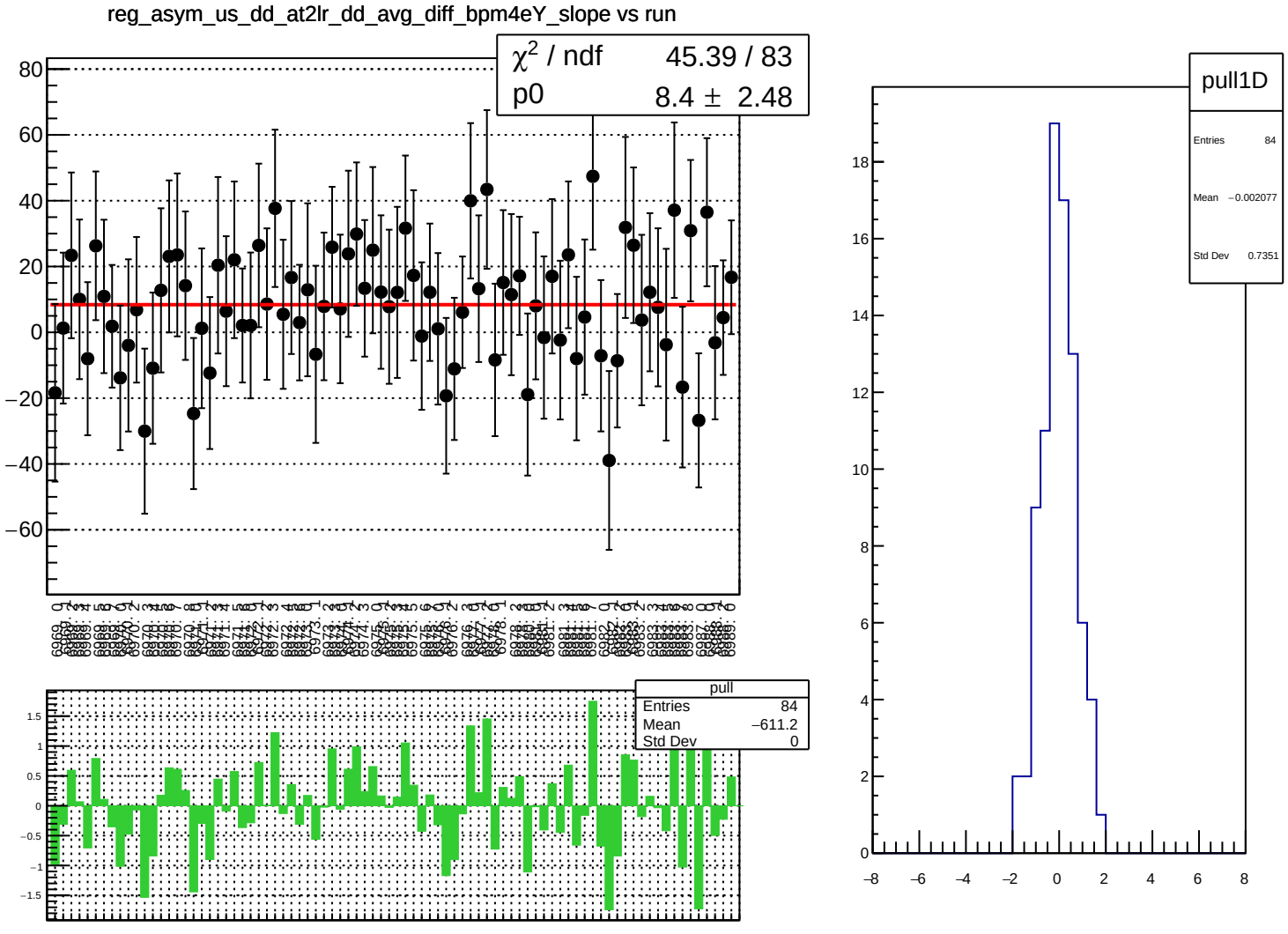

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 58.71 / 83
p0 −48.39 ± 3.085
pull
Entries 84
Mean −34.09
Std Dev 29.53

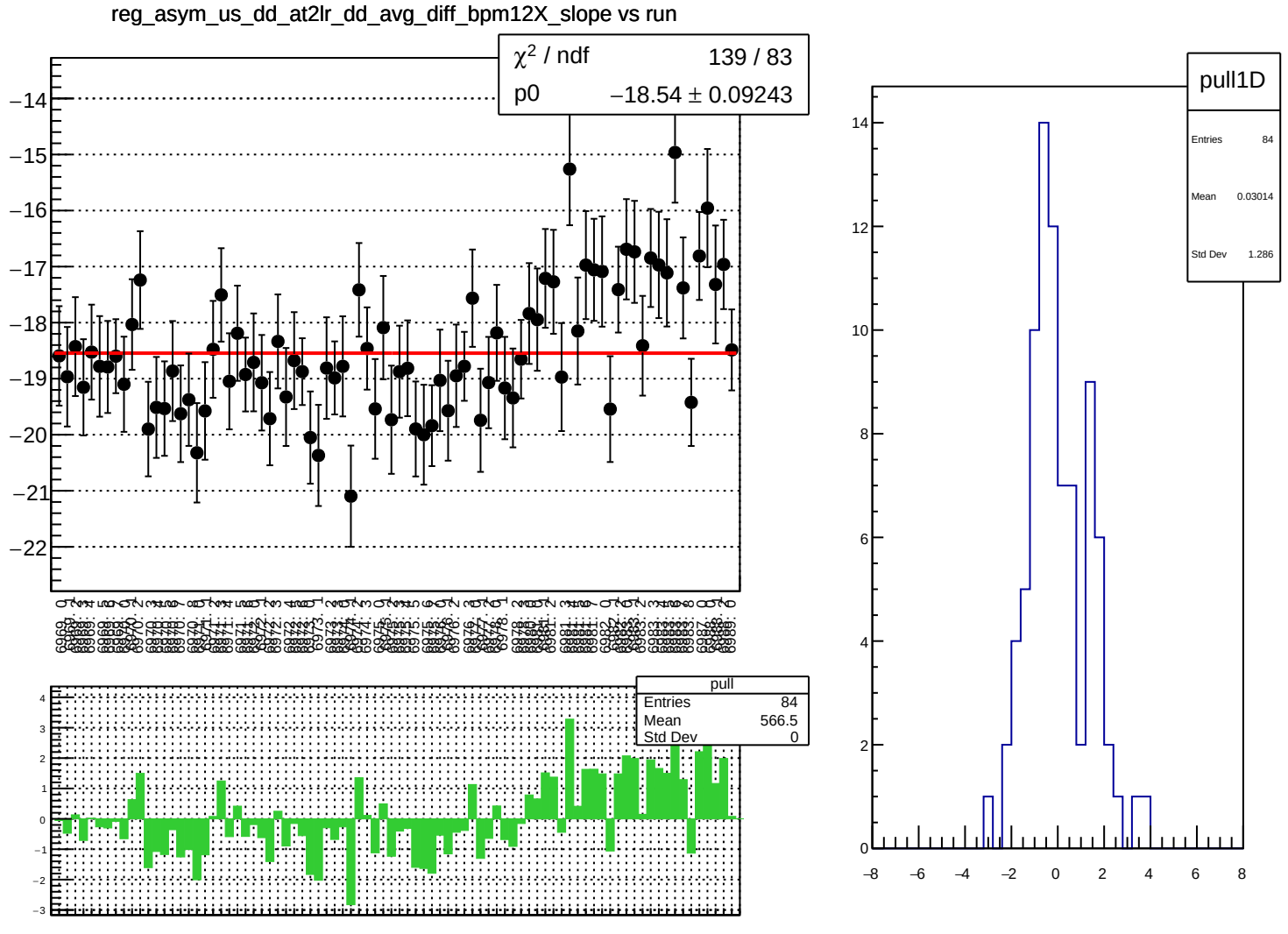

pull1D
Entries 84
Mean −0.007601
Std Dev 0.836

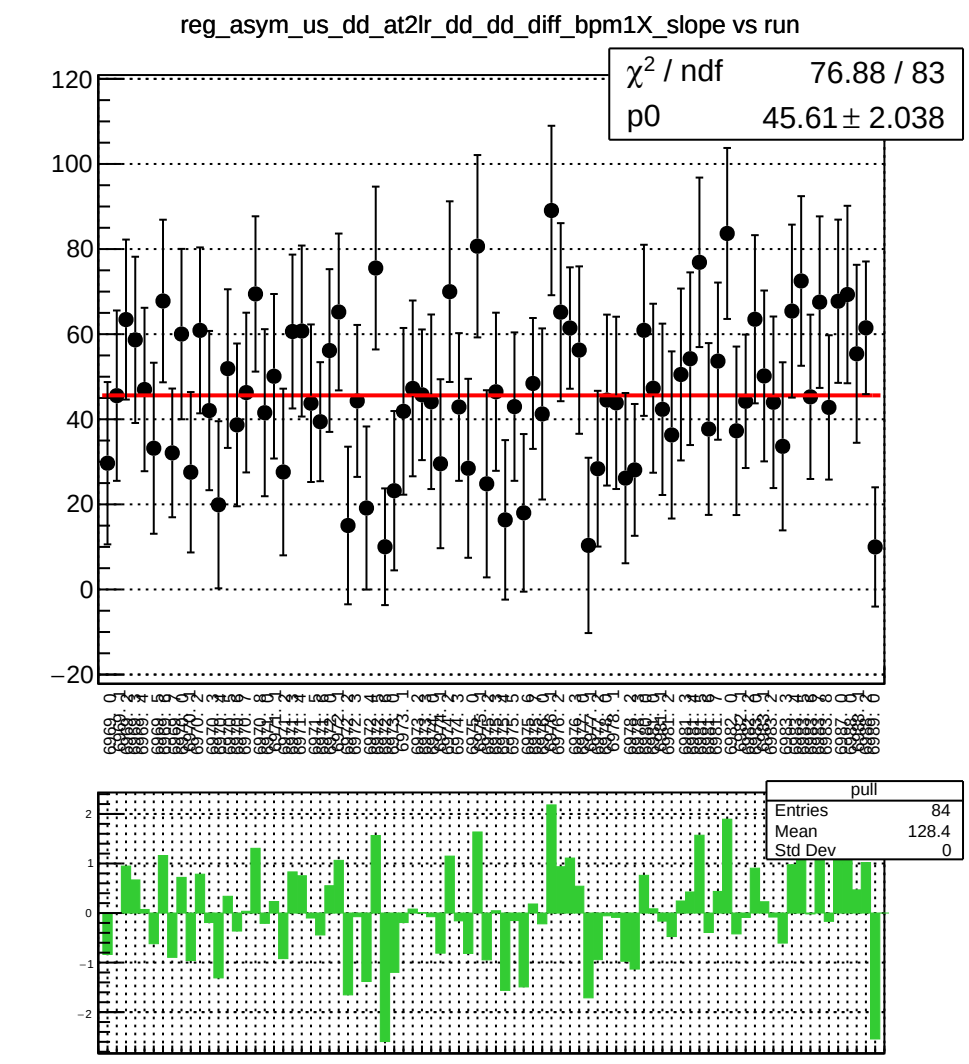

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.83 / 83
p0 1.275 ± 2.17
pull
Entries 84
Mean 2.525e+04
Std Dev 0
pull1D
Entries 84
Mean −6.808e−05
Std Dev 0.7306

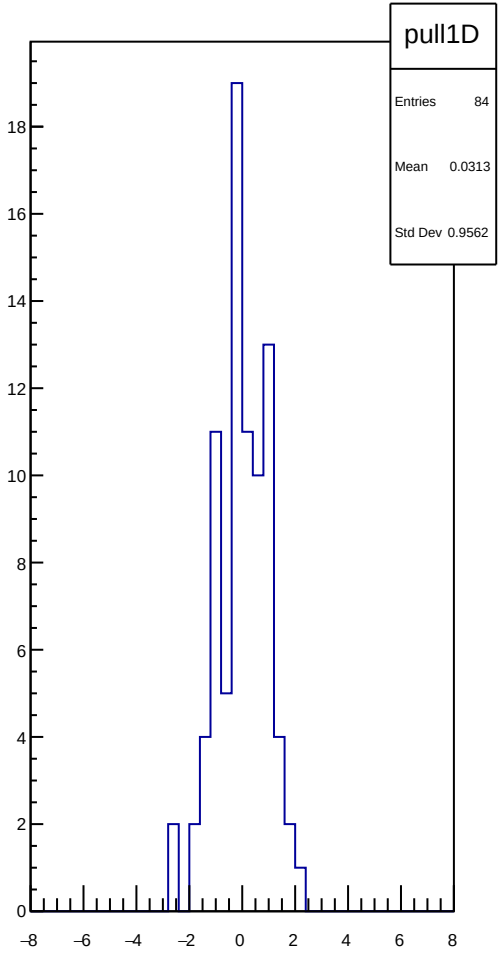

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.75 / 83
p0 −101.1± 2.832
pull
Entries 84
Mean −2.815
Std Dev 57.29

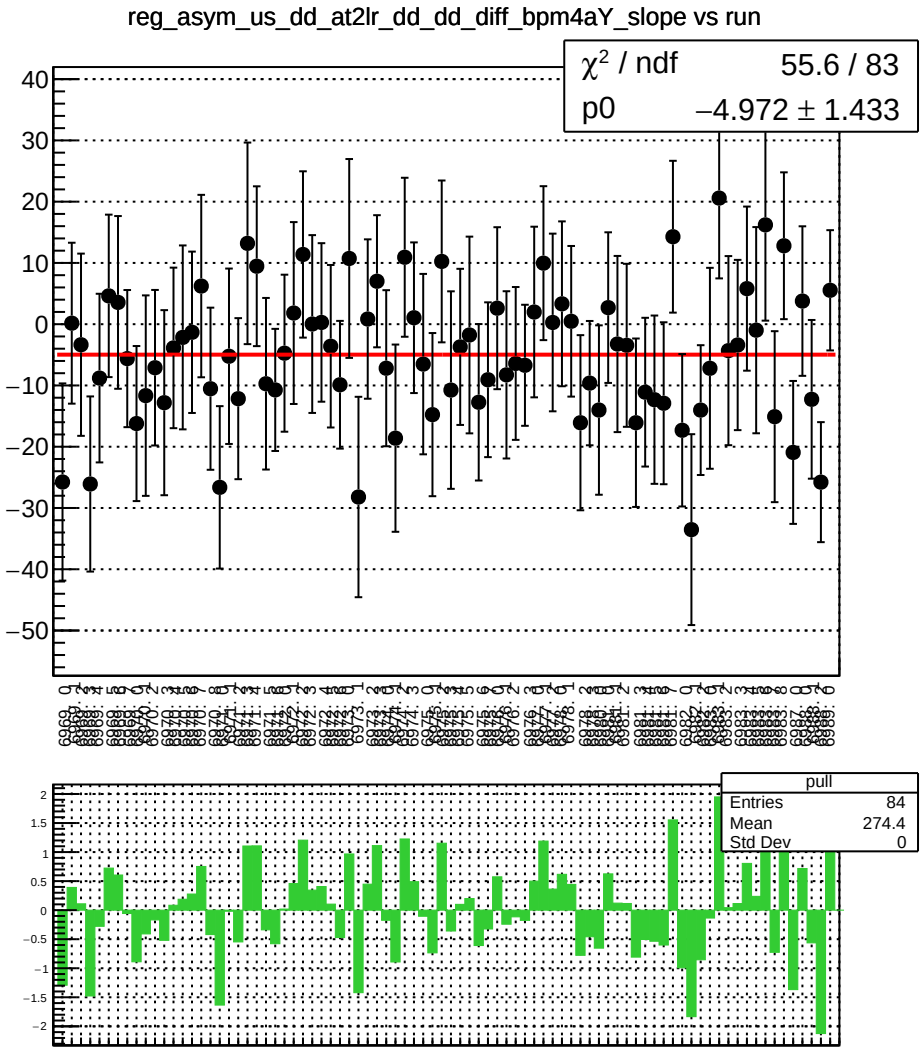

pull1D
Entries 84
Mean 0.009825
Std Dev 0.8643

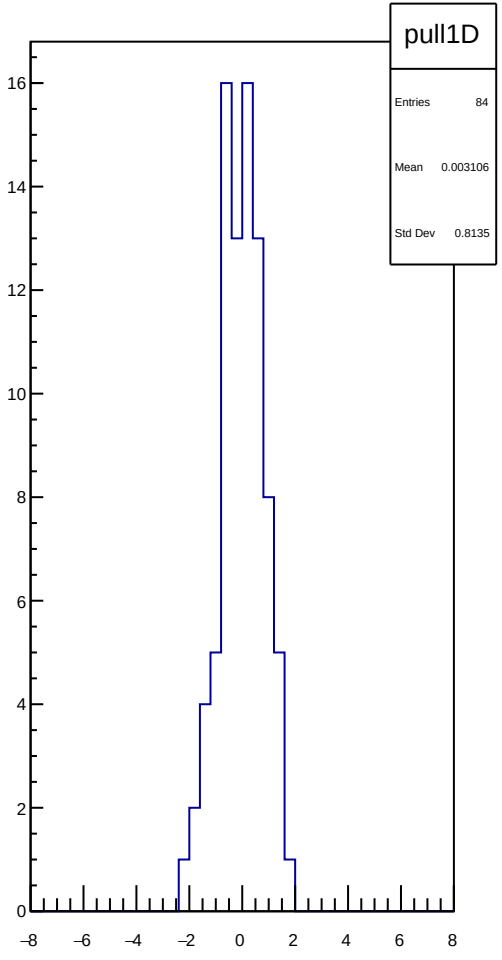

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.39 / 83
p0 8.4 ± 2.48
pull
Entries 84
Mean −611.2
Std Dev 0
pull1D
Entries 84
Mean −0.002077
Std Dev 0.7351

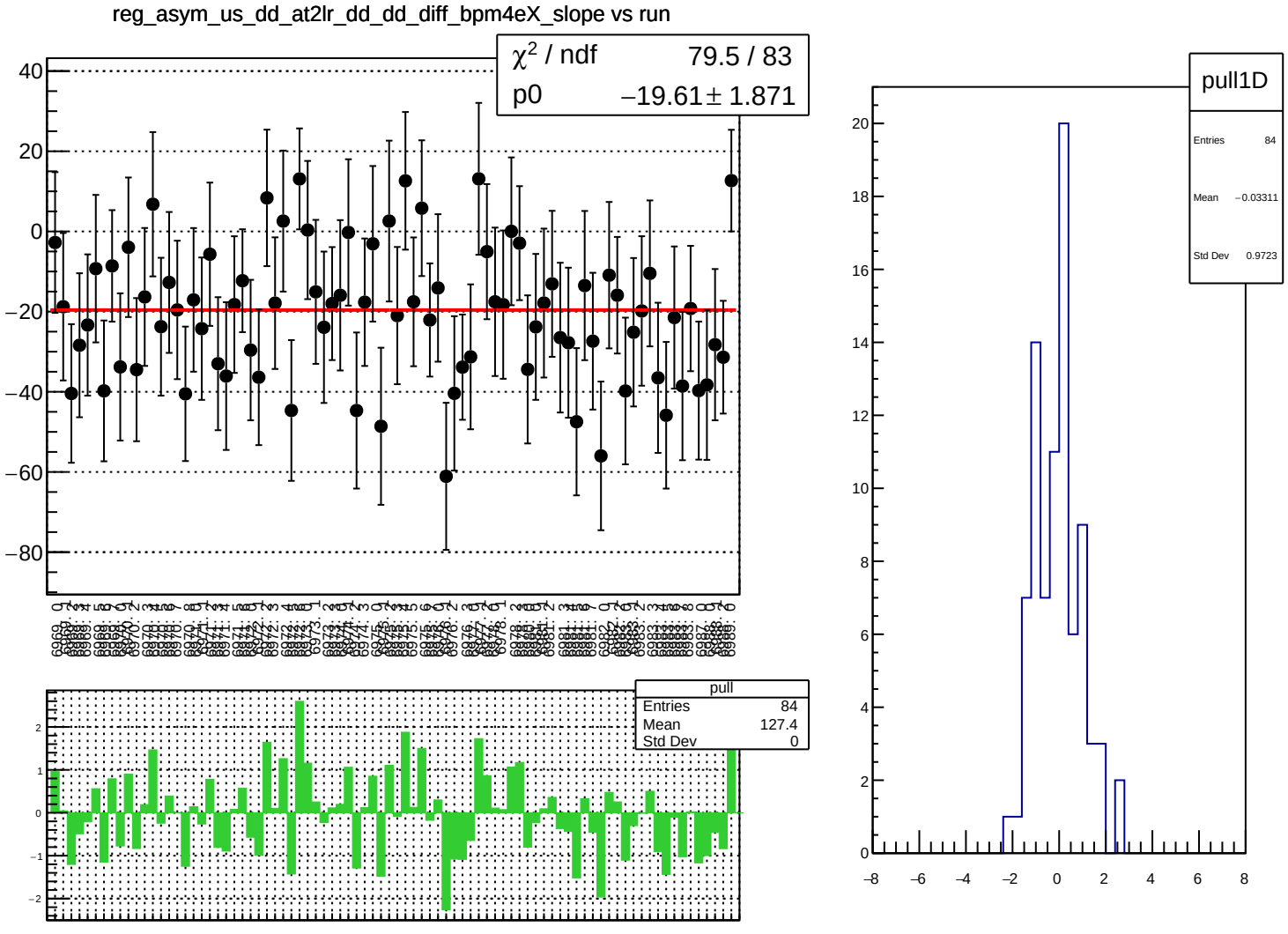

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 139 / 83
p0 −18.54 ± 0.09243
pull
Entries 84
Mean 566.5
Std Dev 0
pull1D
Entries 84
Mean 0.03014
Std Dev 1.286

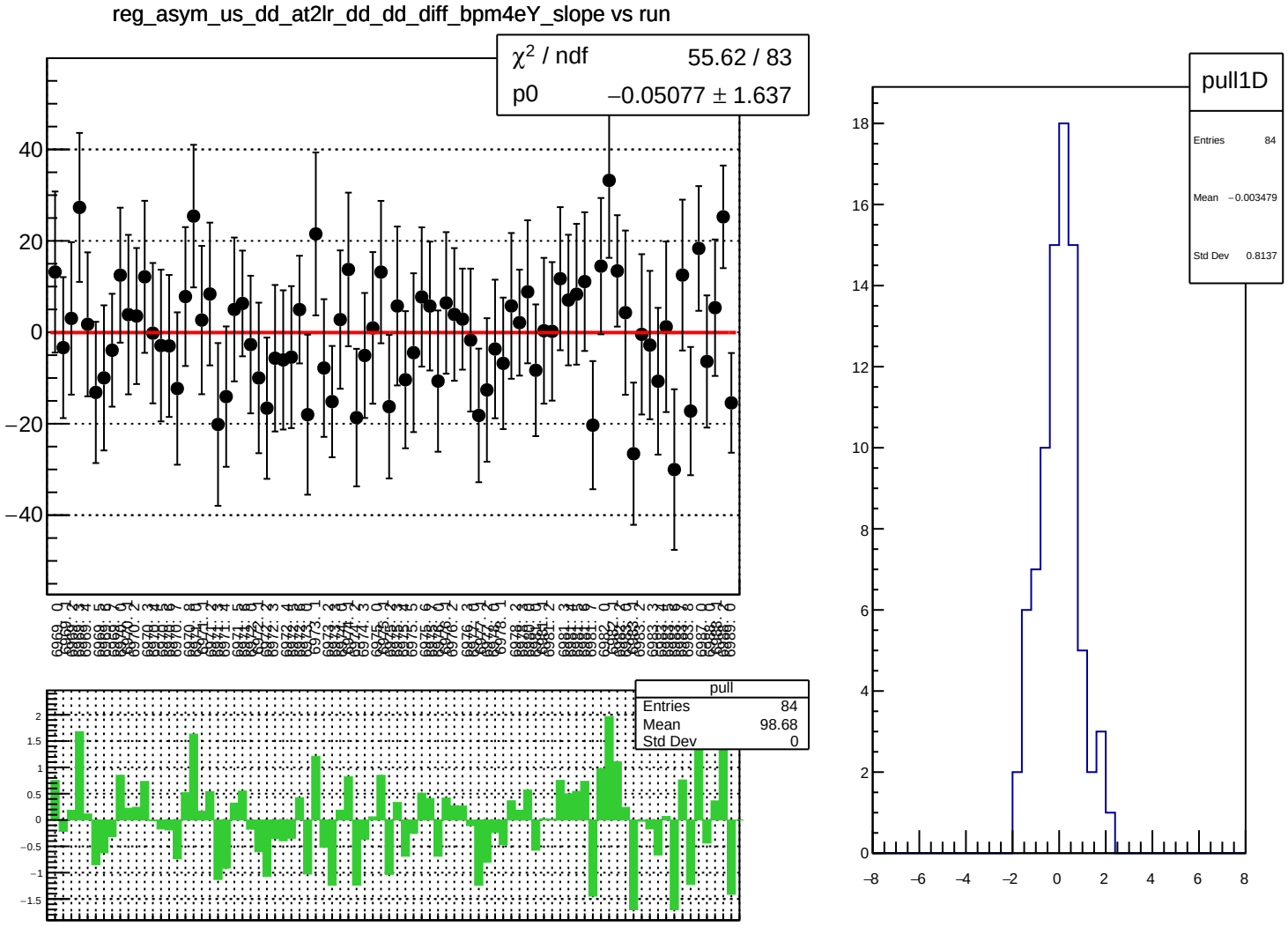

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 76.88 / 83
p0 45.61 ± 2.038
pull
Entries 84
Mean 128.4
Std Dev 0

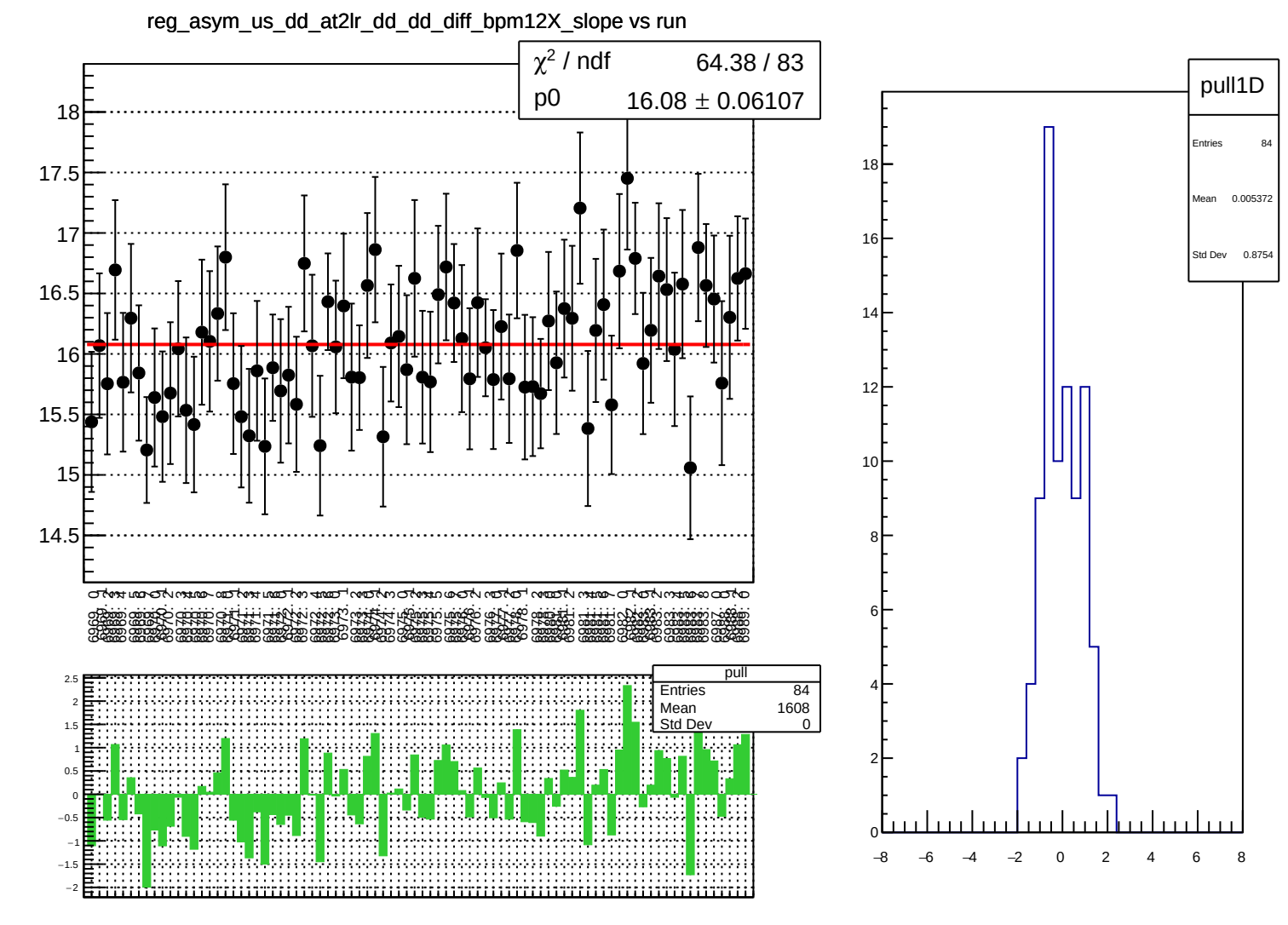

pull1D
Entries 84
Mean 0.0313
Std Dev 0.9562

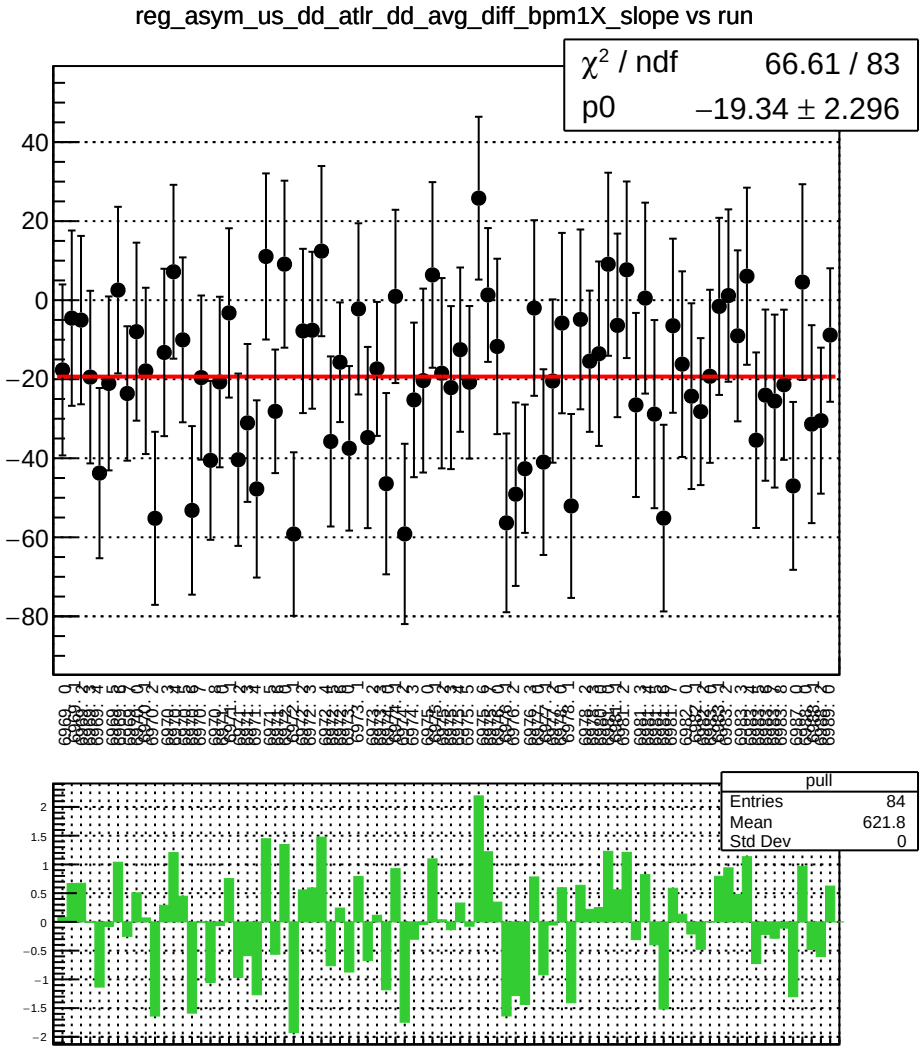

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.6 / 83
p0 −4.972 ± 1.433
pull
Entries 84
Mean 274.4
Std Dev 0

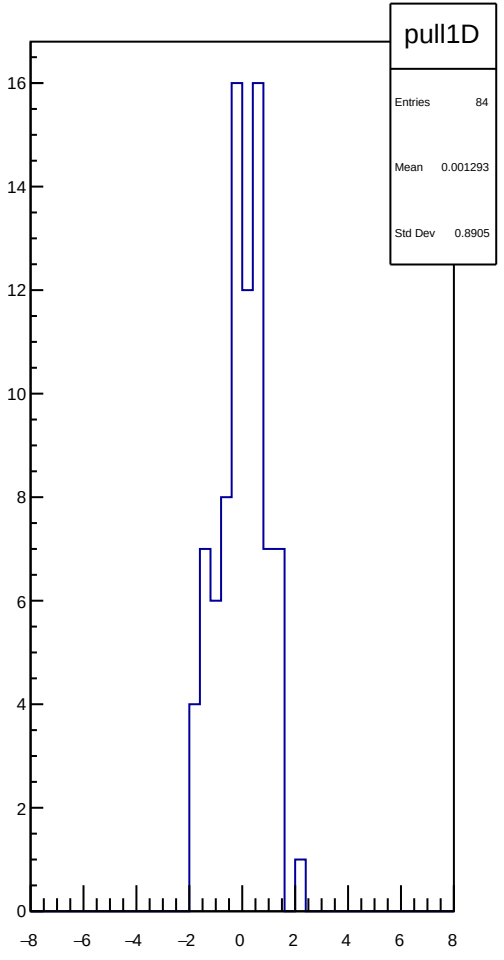

pull1D
Entries 84
Mean 0.003106
Std Dev 0.8135

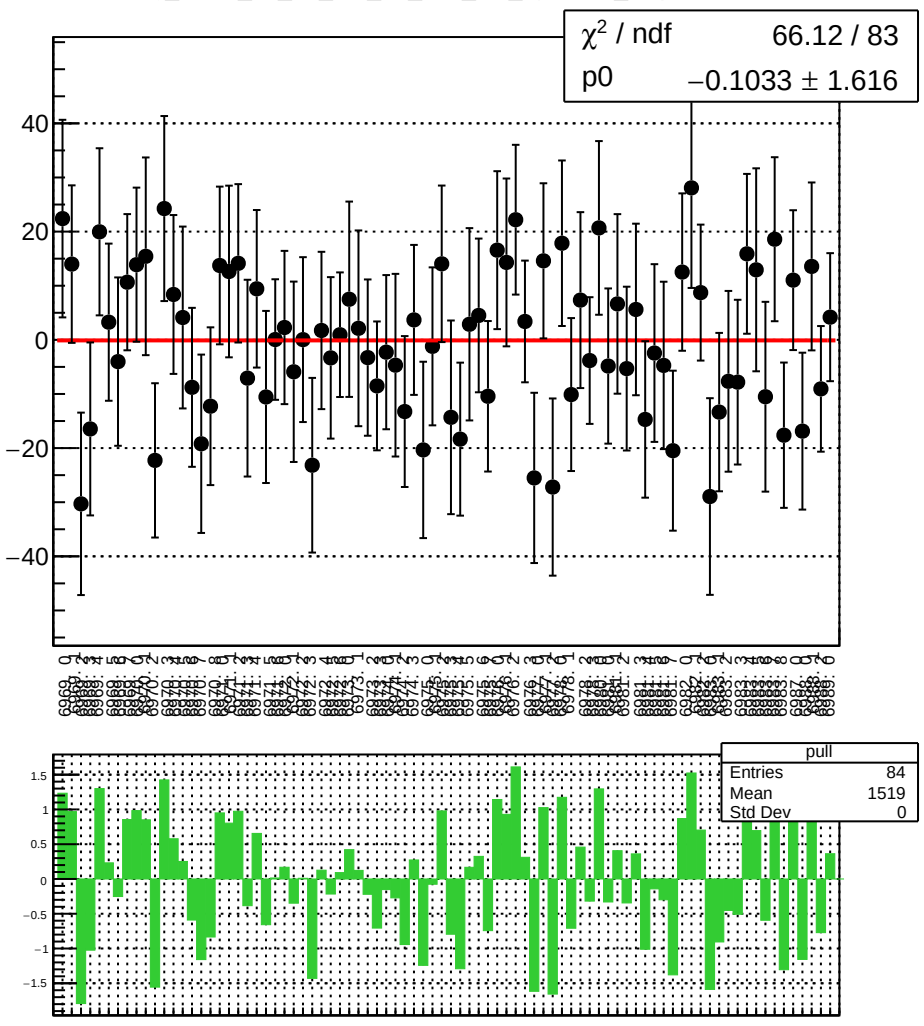

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.5 / 83
p0 −19.61 ± 1.871
pull
Entries 84
Mean 127.4
Std Dev 0
pull1D
Entries 84
Mean −0.03311
Std Dev 0.9723

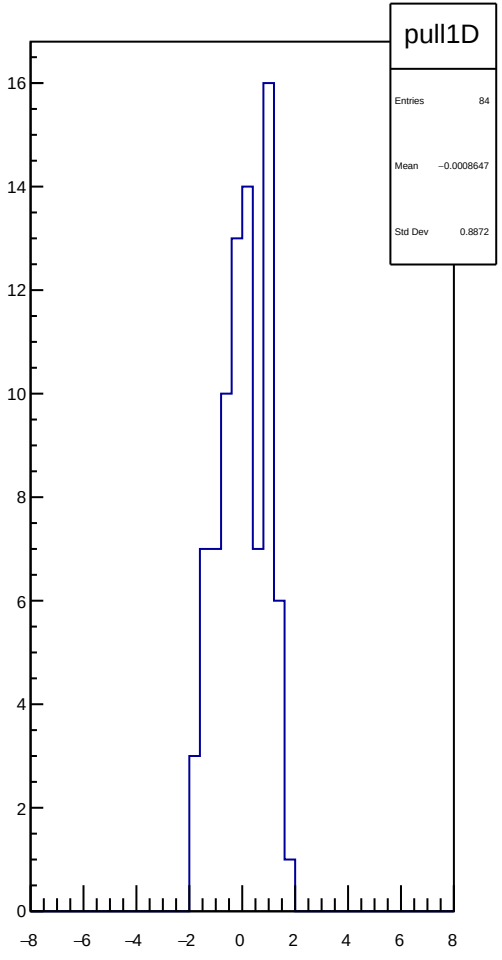

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.62 / 83
p0 −0.05077 ± 1.637
pull
Entries 84
Mean 98.68
Std Dev 0
pull1D
Entries 84
Mean −0.003479
Std Dev 0.8137

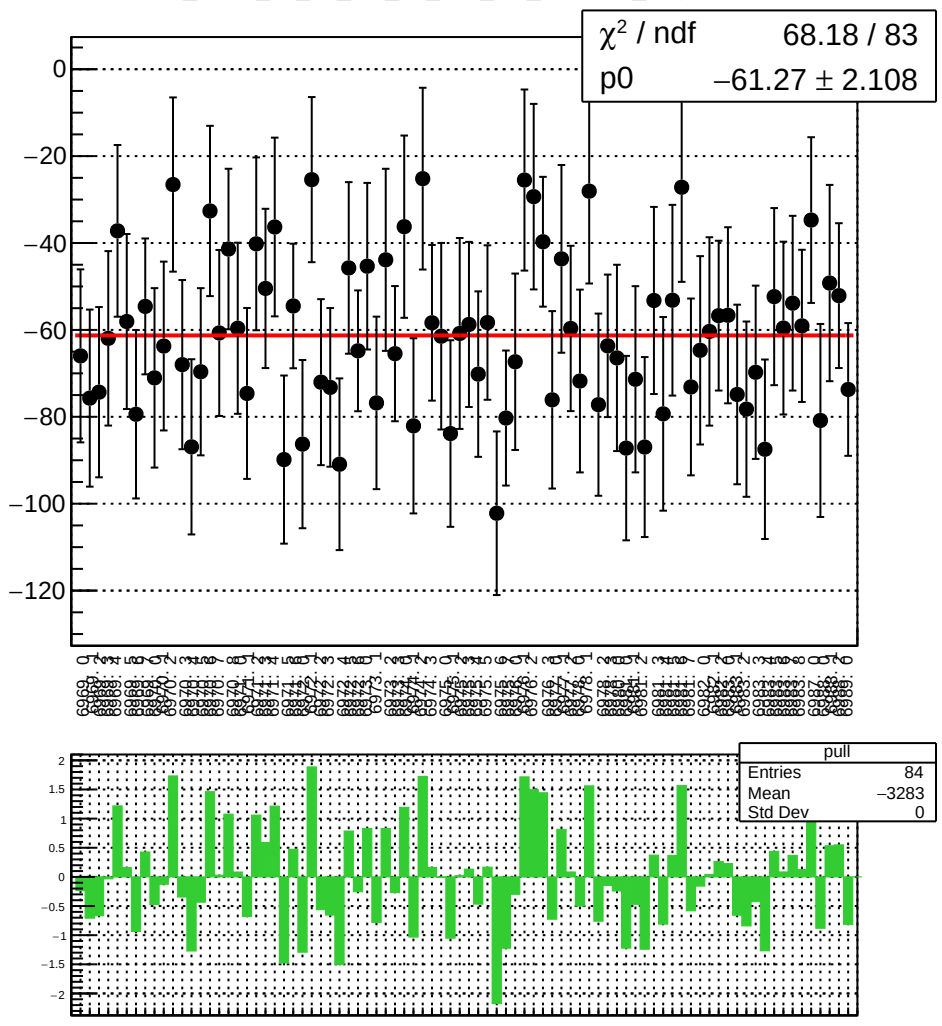

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 64.38 / 83
p0 16.08 ± 0.06107
pull
Entries 84
Mean 1608
Std Dev 0
pull1D
Entries 84
Mean 0.005372
Std Dev 0.8754

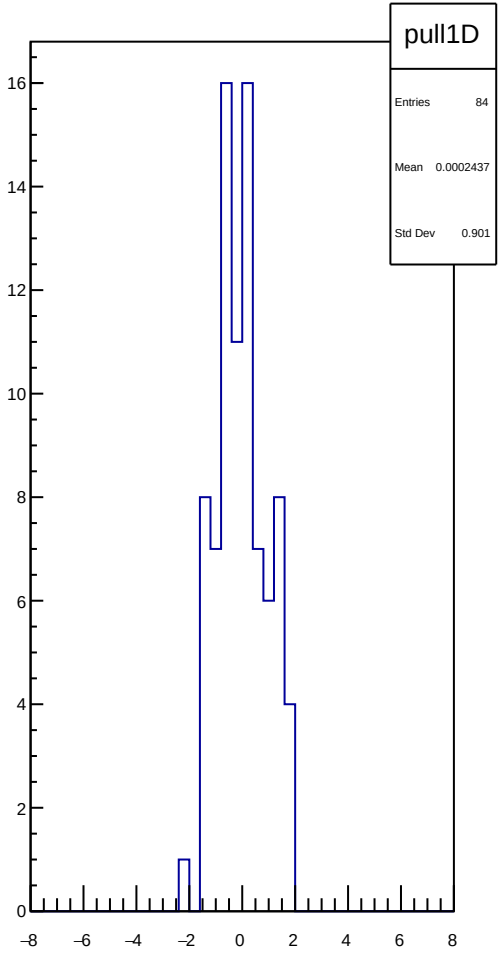

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 66.61 / 83
p0 −19.34 ± 2.296
pull
Entries 84
Mean 621.8
Std Dev 0

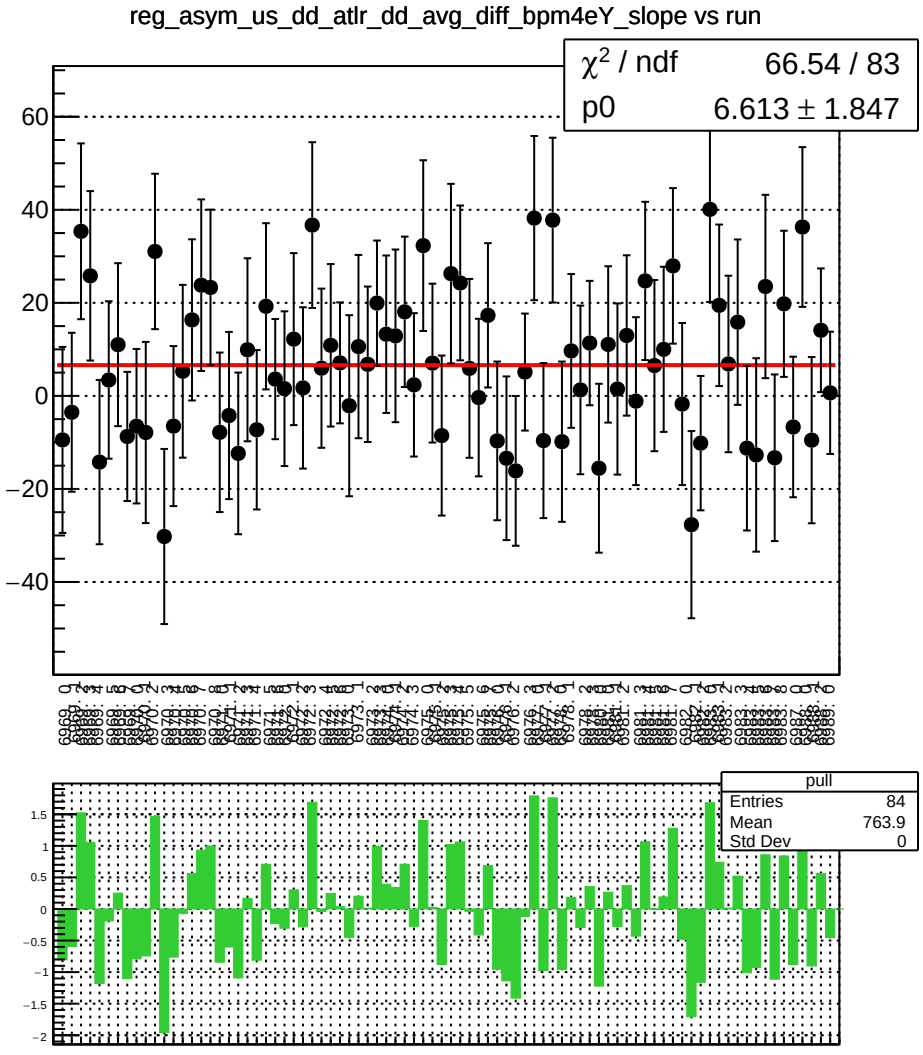

pull1D
Entries 84
Mean 0.001293
Std Dev 0.8905

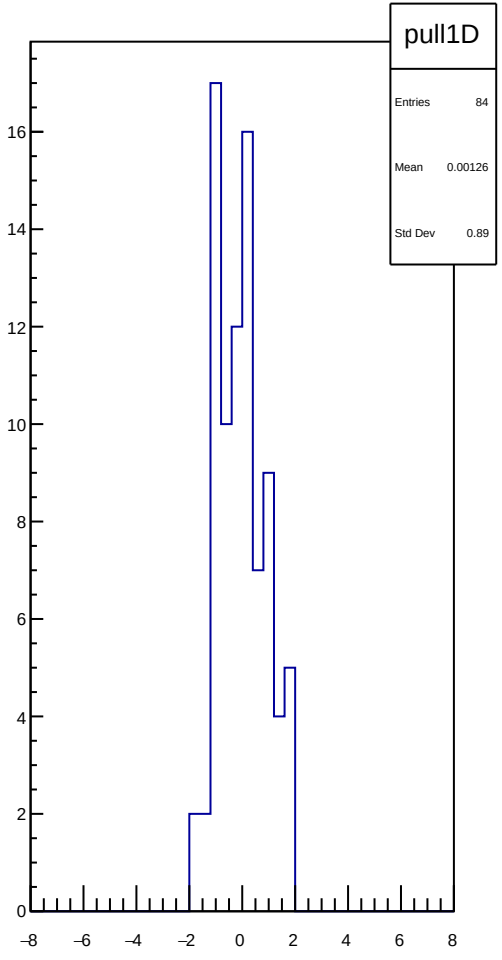

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.12 / 83
p0 −0.1033 ± 1.616
pull
Entries 84
Mean 1519
Std Dev 0

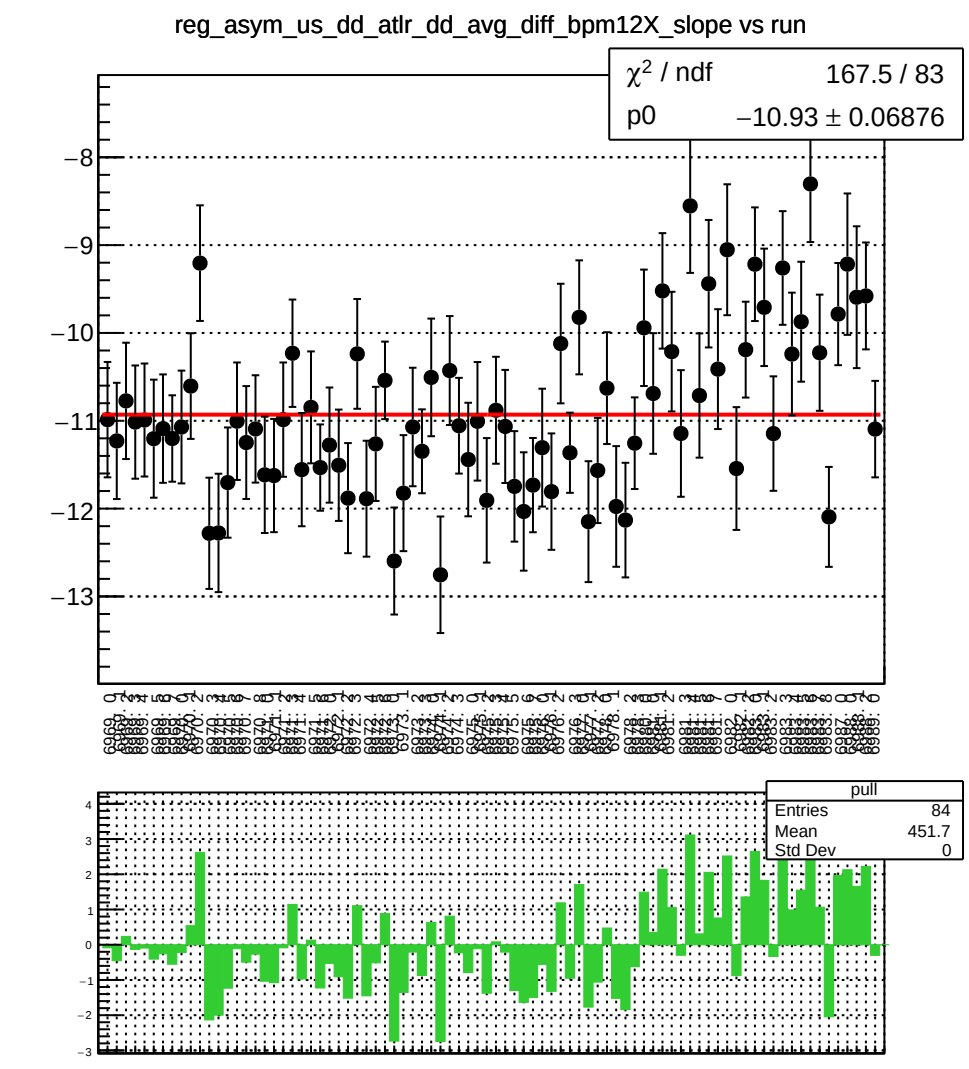

pull1D
Entries 84
Mean −0.0008647
Std Dev 0.8872

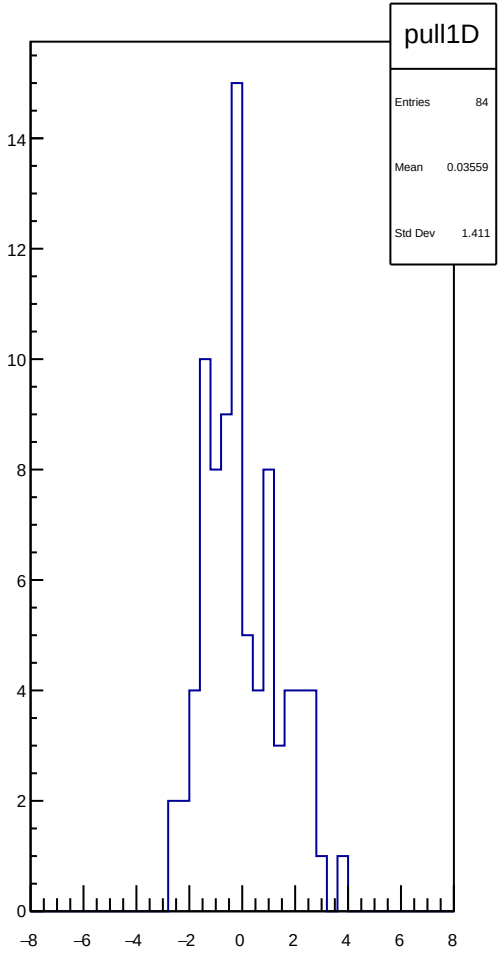

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.18 / 83
p0 −61.27 ± 2.108
pull
Entries 84
Mean −3283
Std Dev 0

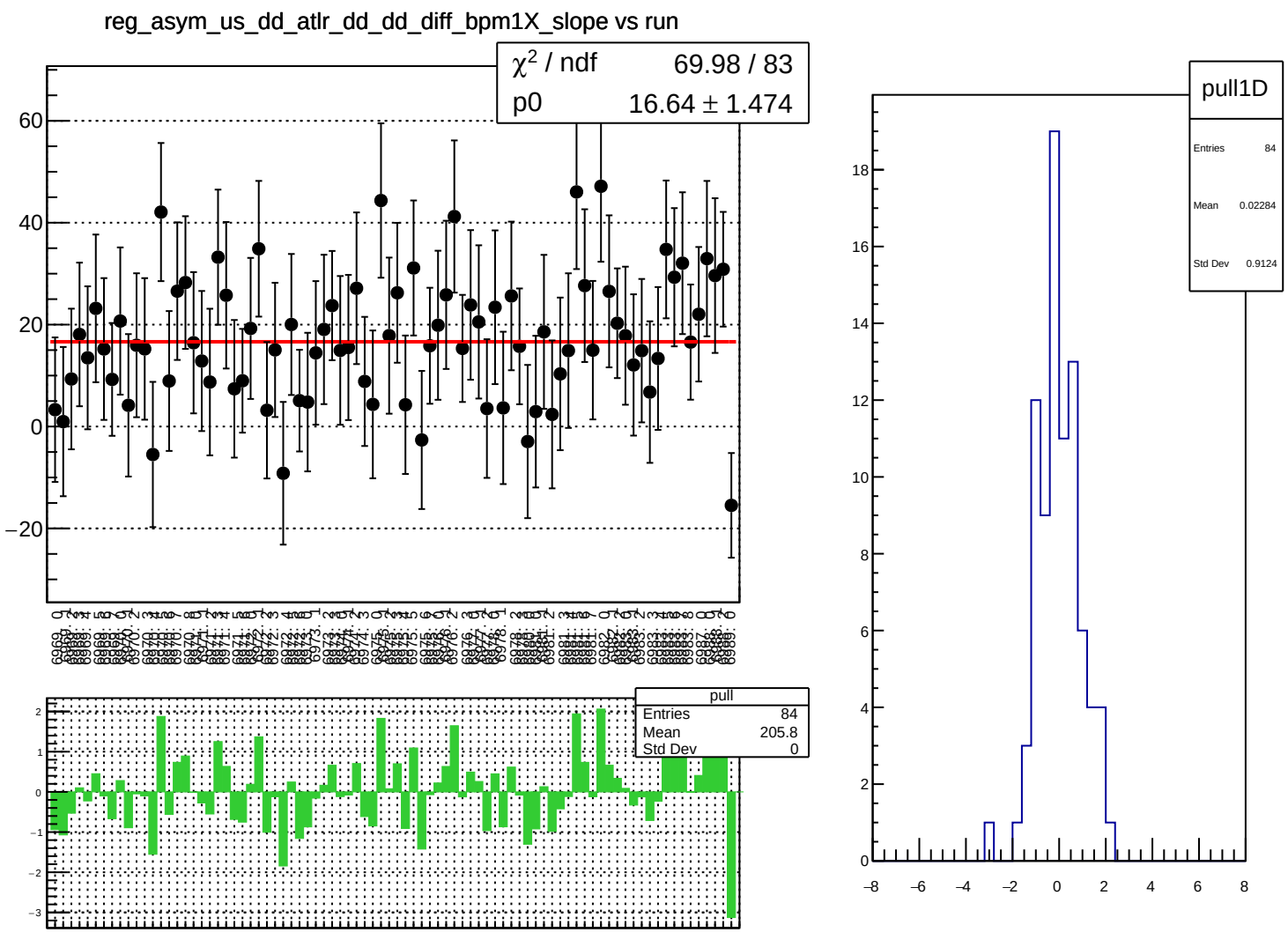

pull1D
Entries 84
Mean 0.0002437
Std Dev 0.901

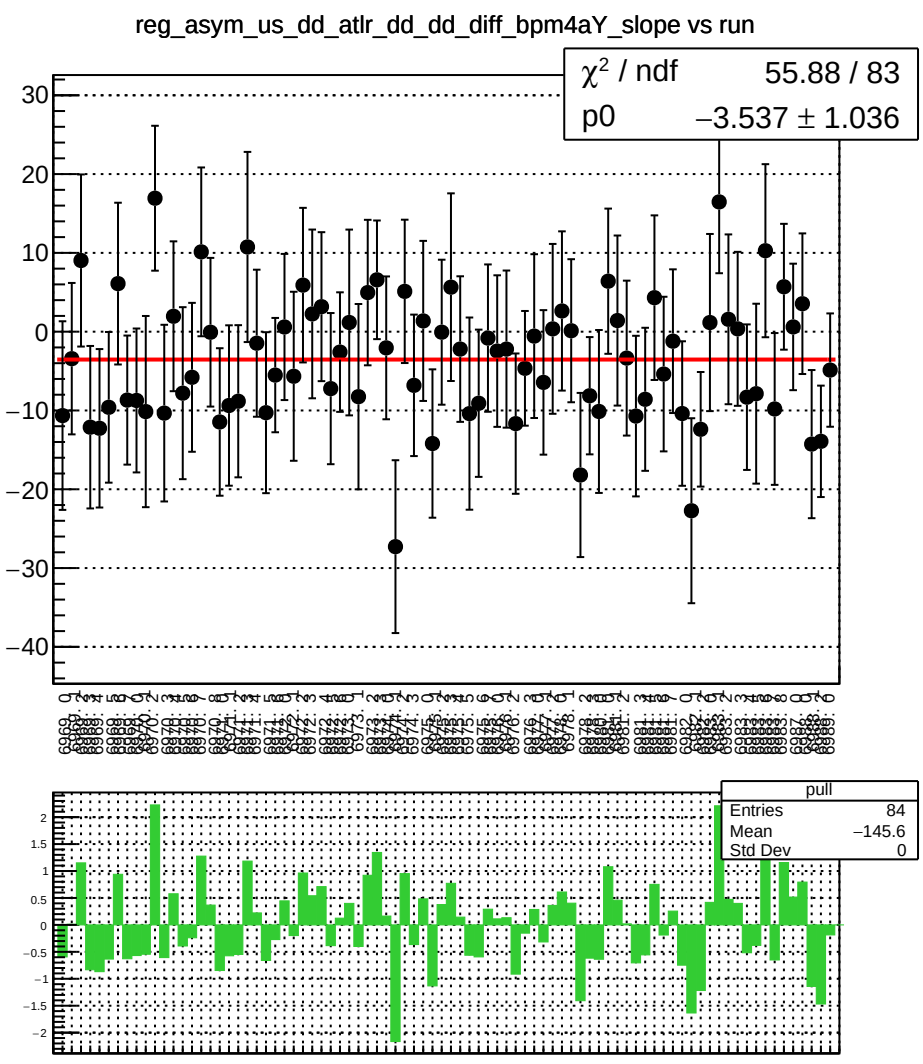

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.54 / 83
p0 6.613 ± 1.847
pull
Entries 84
Mean 763.9
Std Dev 0

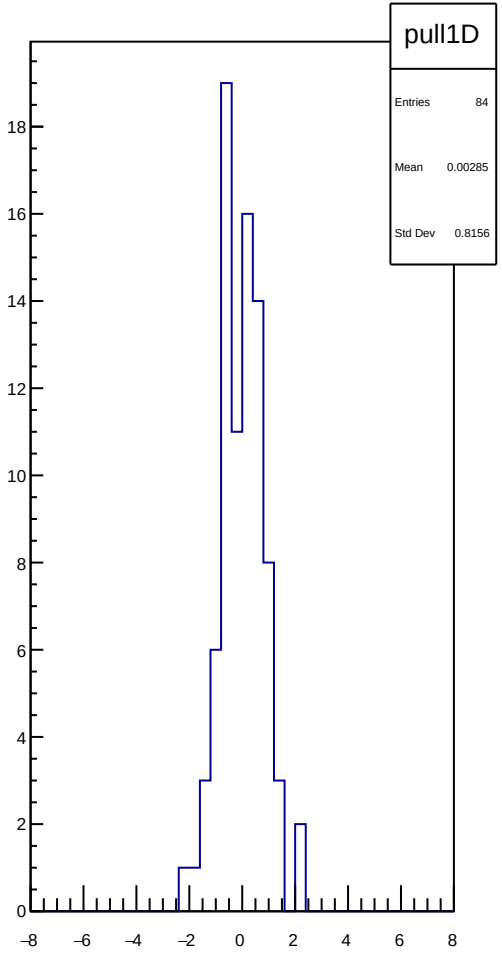

pull1D
Entries 84
Mean 0.00126
Std Dev 0.89

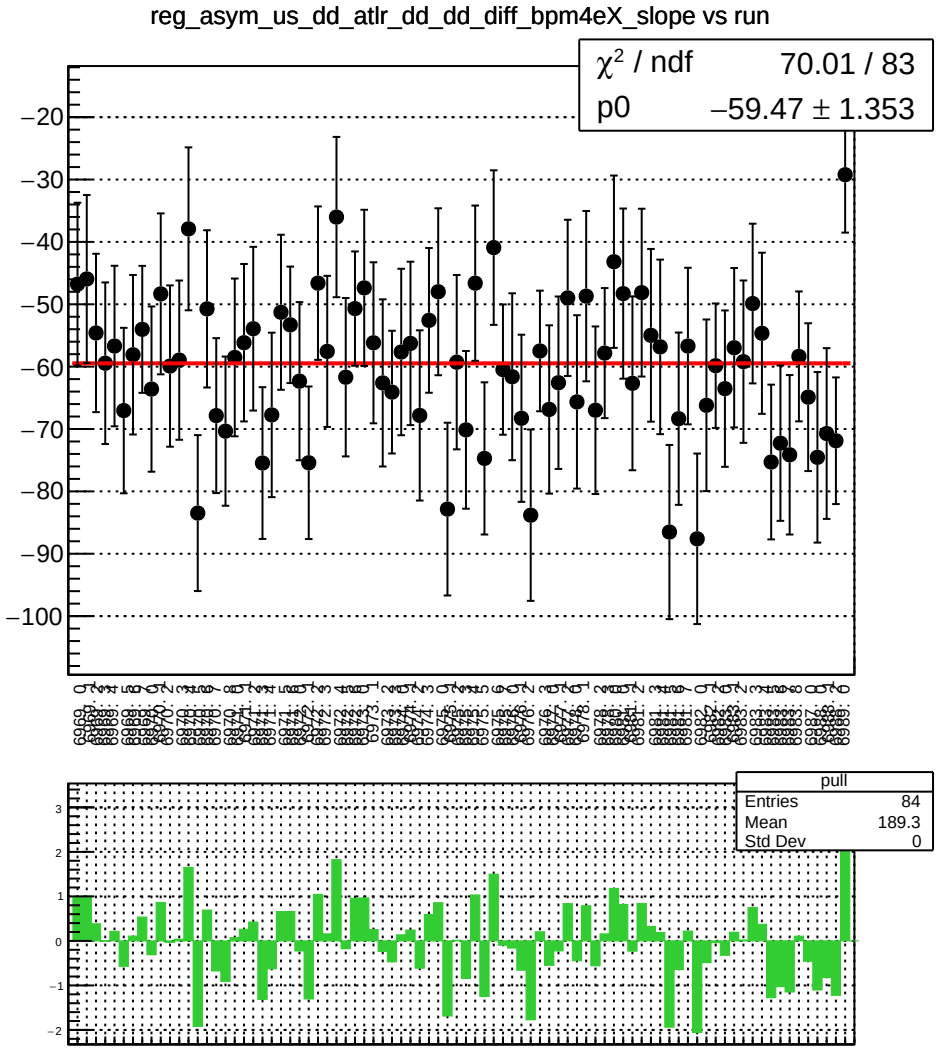

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 167.5 / 83
p0 −10.93 ± 0.06876
pull
Entries 84
Mean 451.7
Std Dev 0

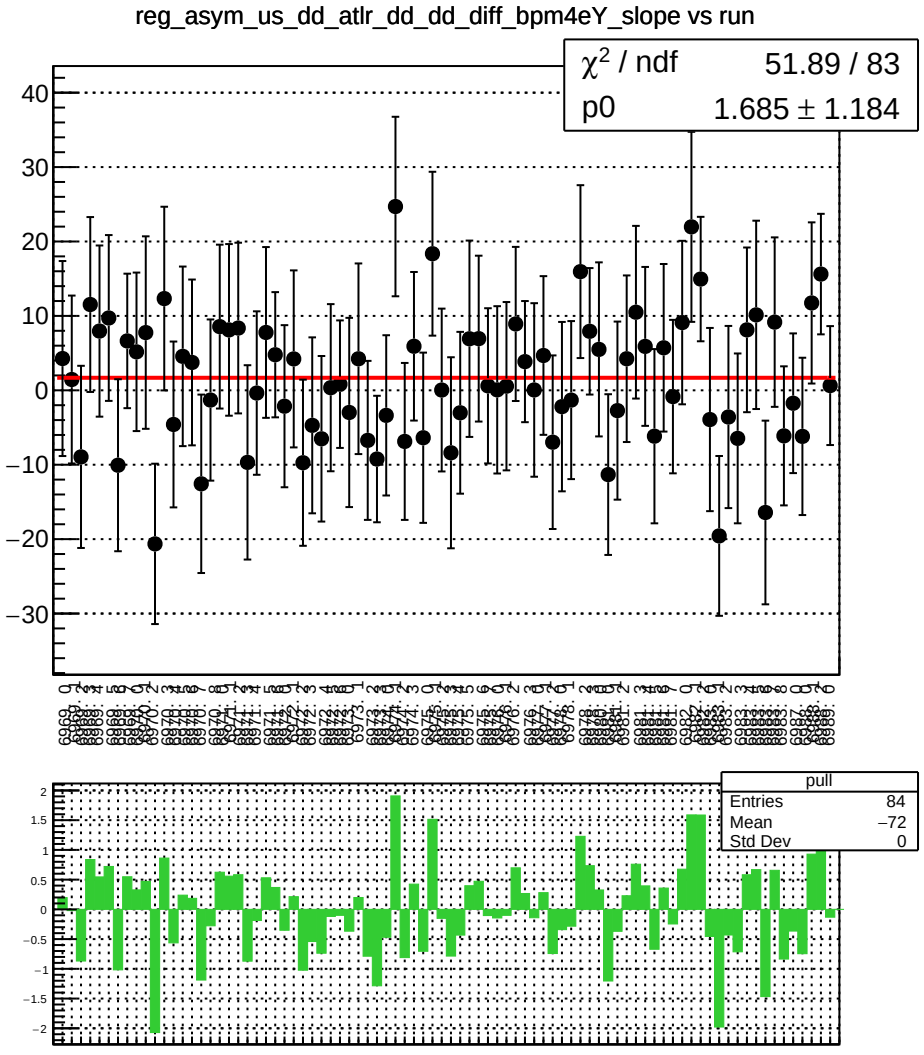

pull1D
Entries 84
Mean 0.03559
Std Dev 1.411

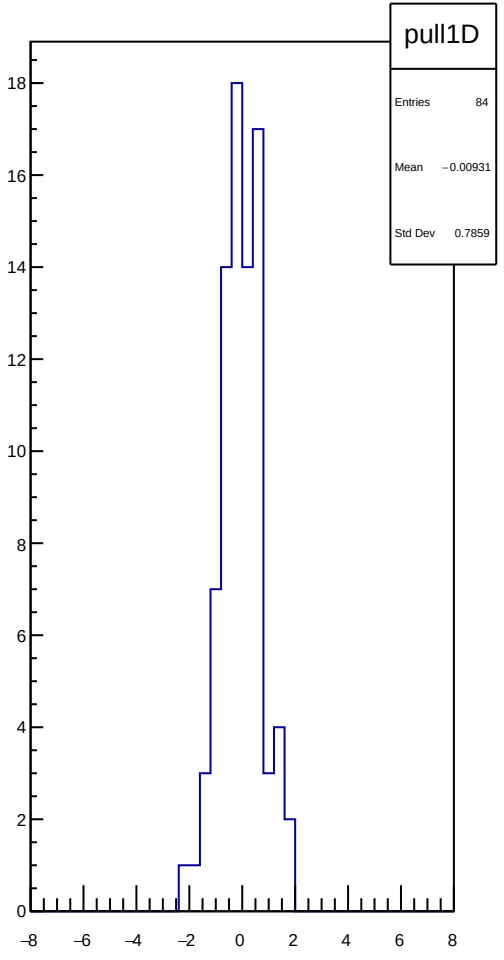

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 69.98 / 83
p0 16.64 ± 1.474
pull
Entries 84
Mean 205.8
Std Dev 0
pull1D
Entries 84
Mean 0.02284
Std Dev 0.9124

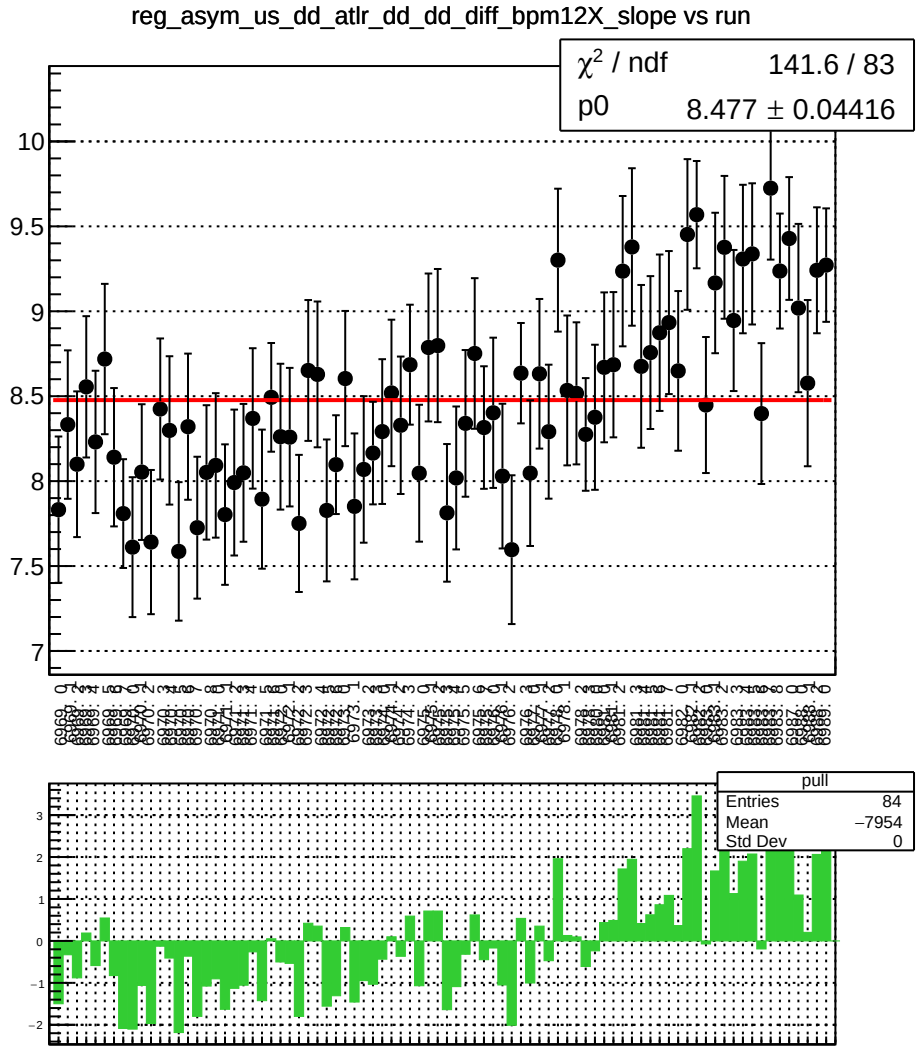

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.88 / 83
p0 −3.537 ± 1.036
pull
Entries 84
Mean −145.6
Std Dev 0

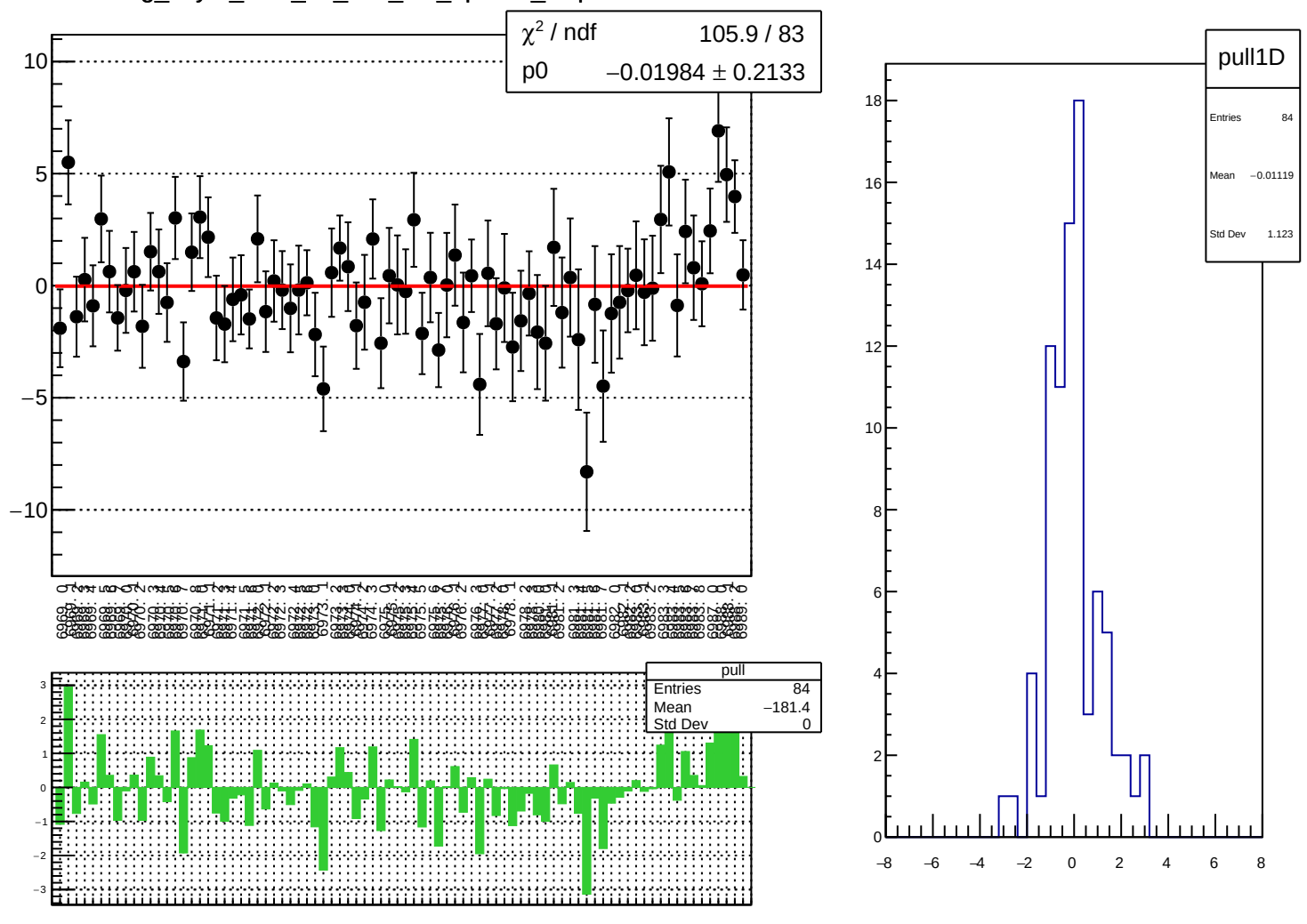

pull1D
Entries 84
Mean 0.00285
Std Dev 0.8156

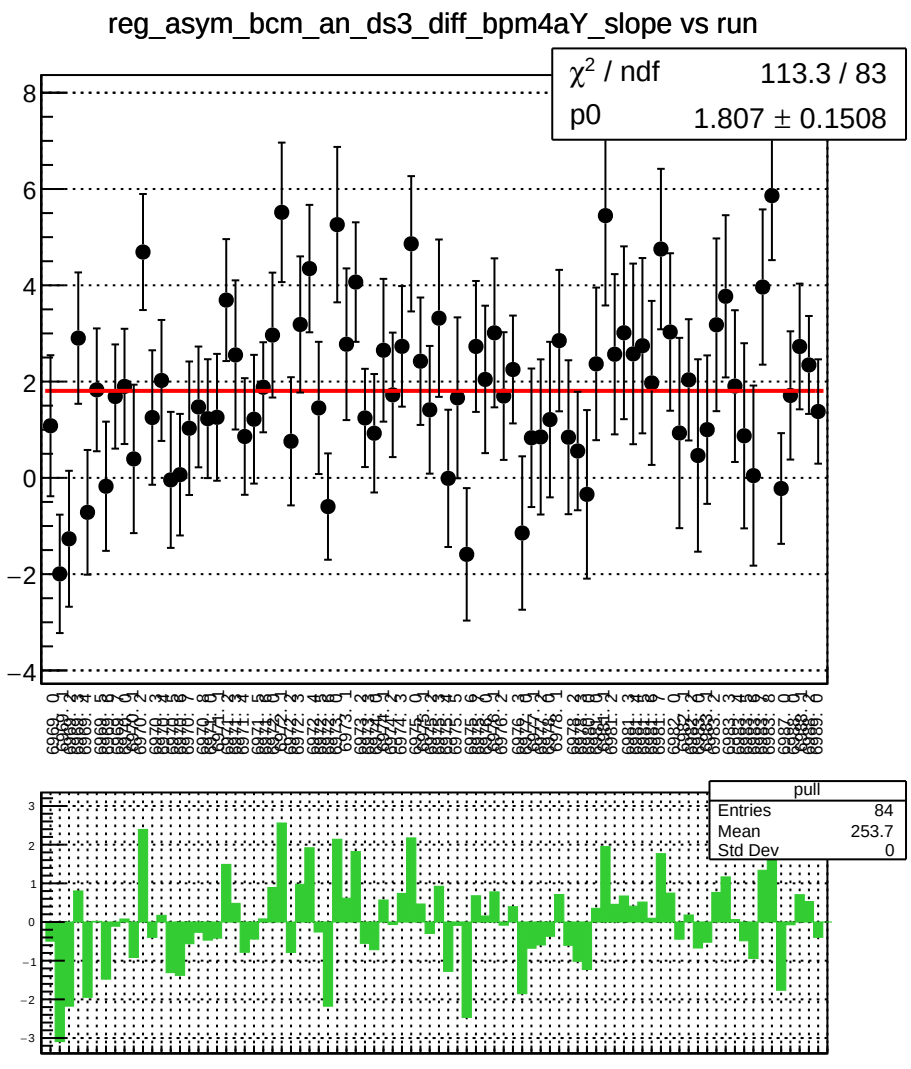

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.01 / 83
p0 −59.47 ± 1.353
pull
Entries 84
Mean 189.3
Std Dev 0
pull1D
Entries 84
Mean −0.02391
Std Dev 0.9126

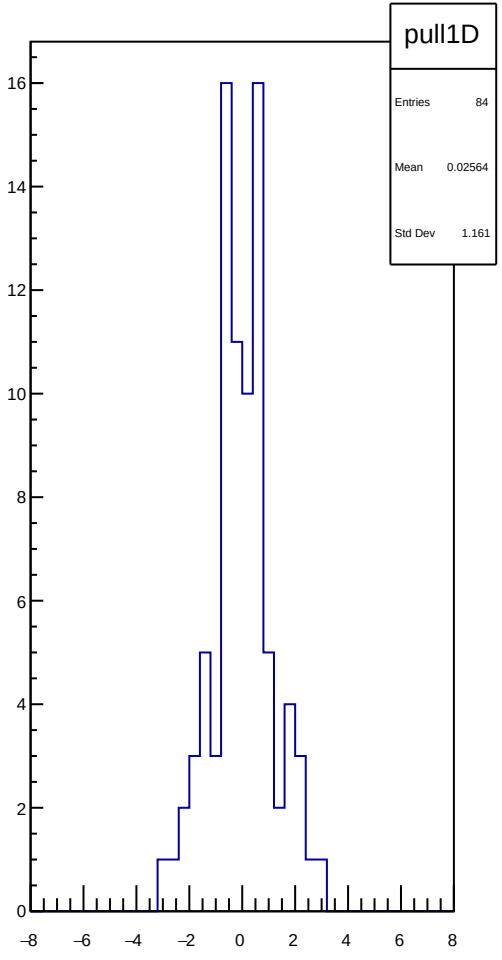

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.89 / 83
p0 1.685 ± 1.184
pull
Entries 84
Mean −72
Std Dev 0

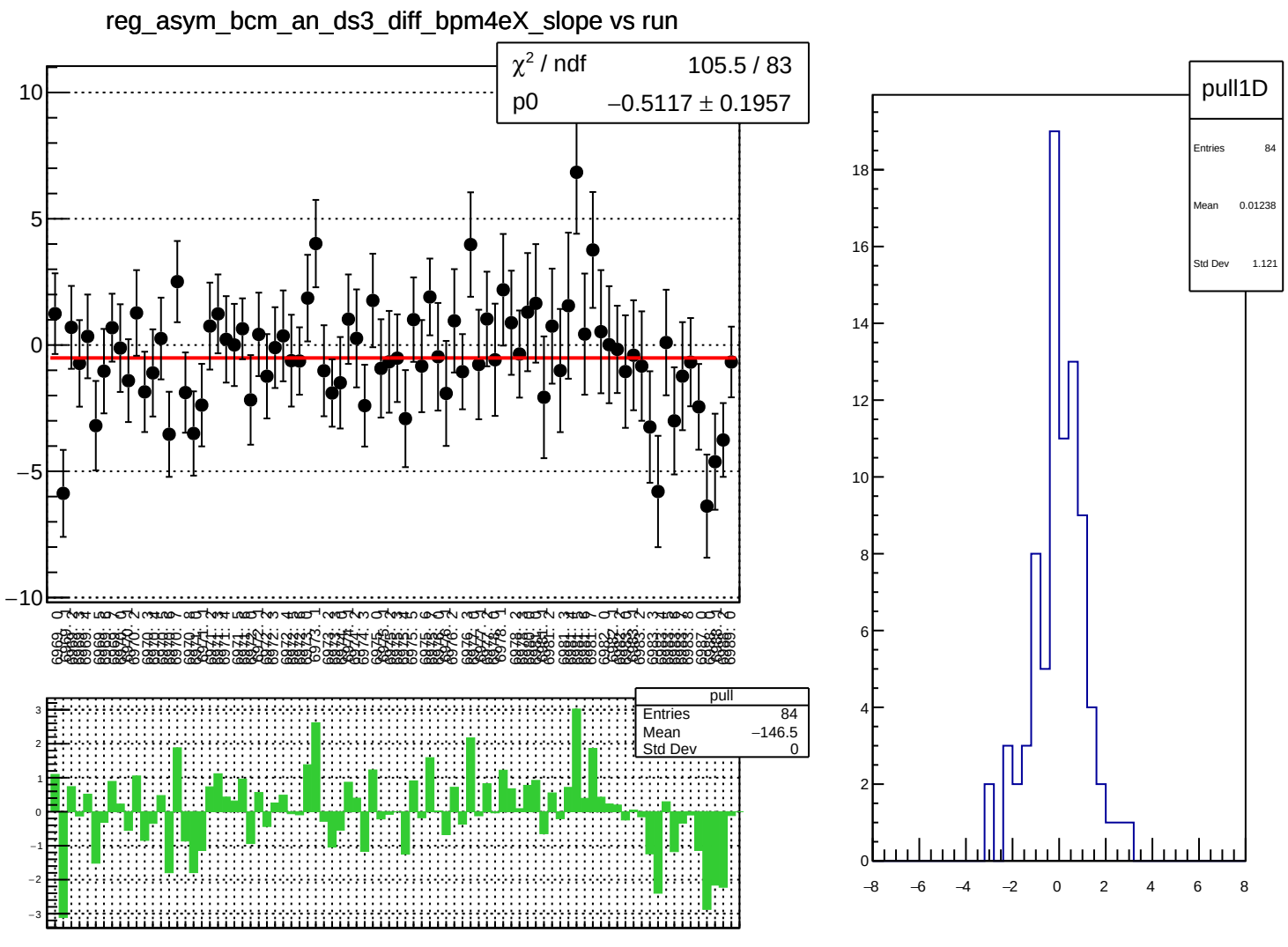

pull1D
Entries 84
Mean −0.00931
Std Dev 0.7859

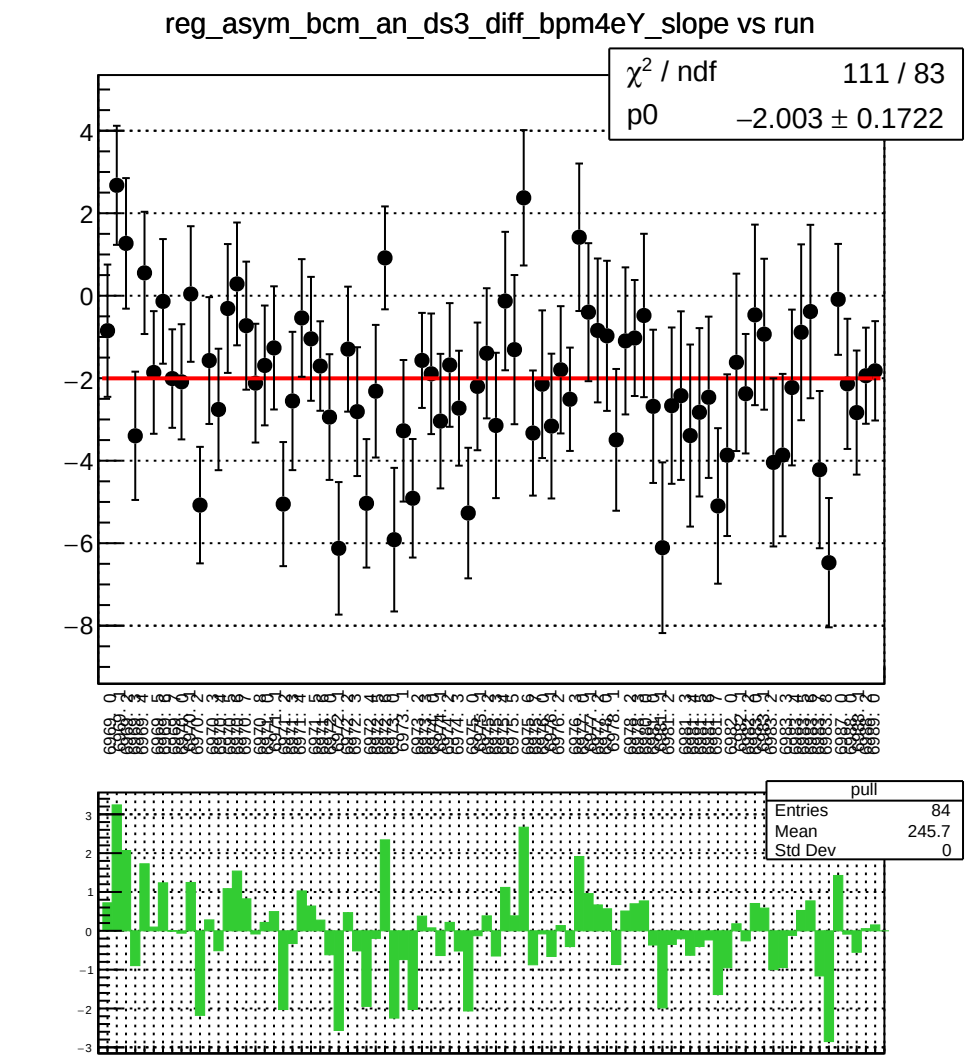

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 141.6 / 83
p0 8.477 ± 0.04416
pull
Entries 84
Mean −7954
Std Dev 0
pull1D
Entries 84
Mean −0.002785
Std Dev 1.298

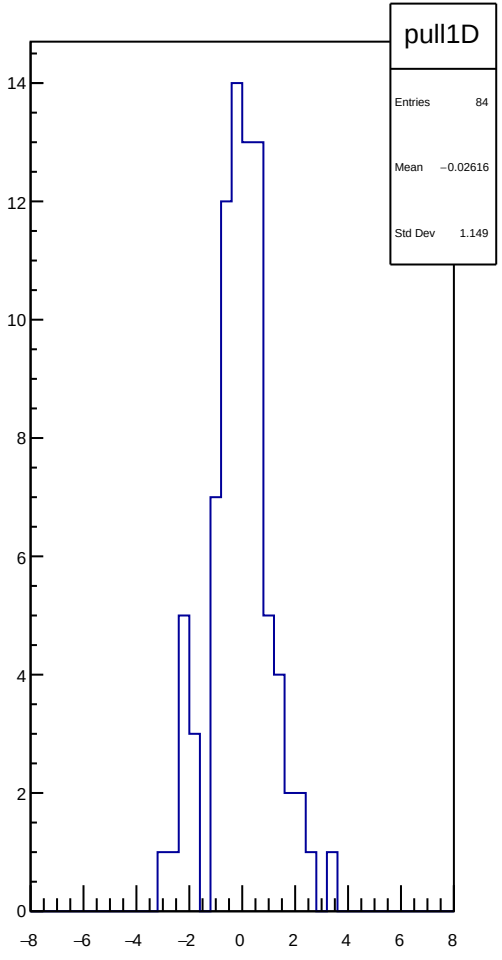

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 105.9 / 83
p0 −0.01984 ± 0.2133
pull
Entries 84
Mean −181.4
Std Dev 0
pull1D
Entries 84
Mean −0.01119
Std Dev 1.123

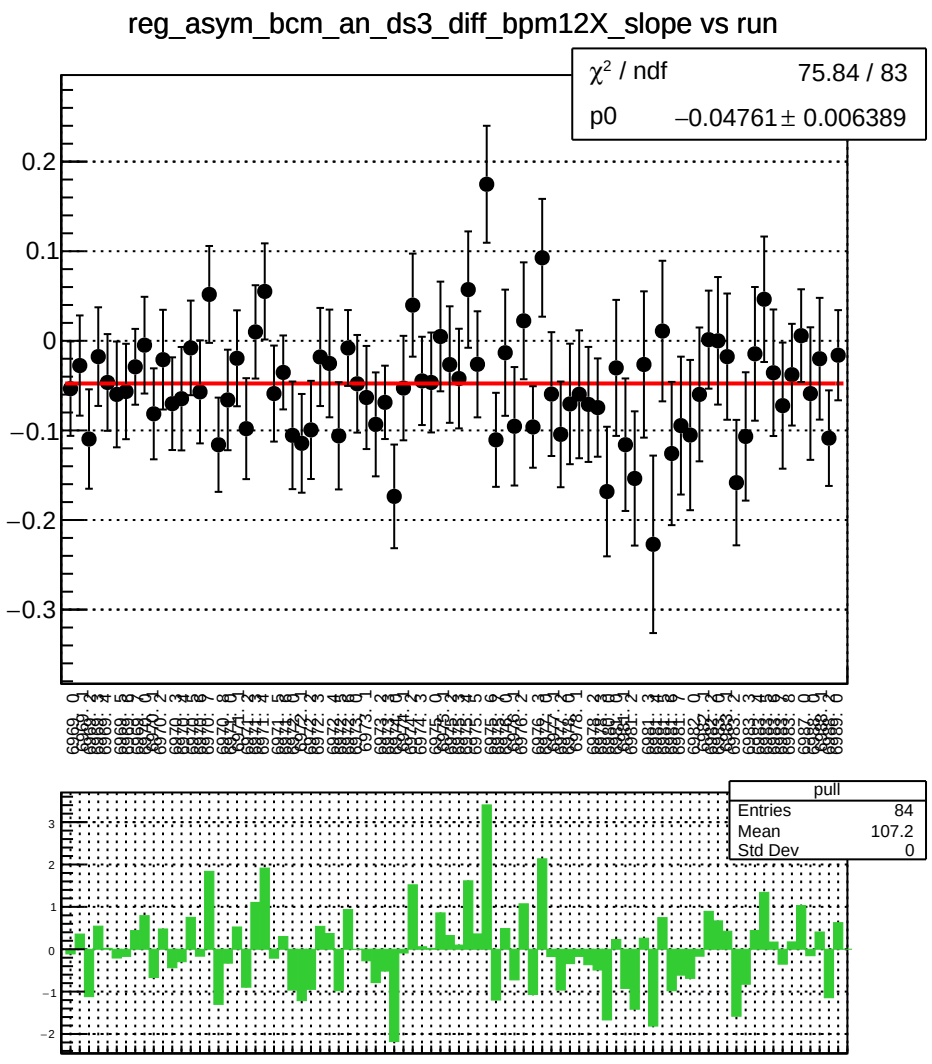

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 113.3 / 83
p0 1.807 ± 0.1508
pull
Entries 84
Mean 253.7
Std Dev 0

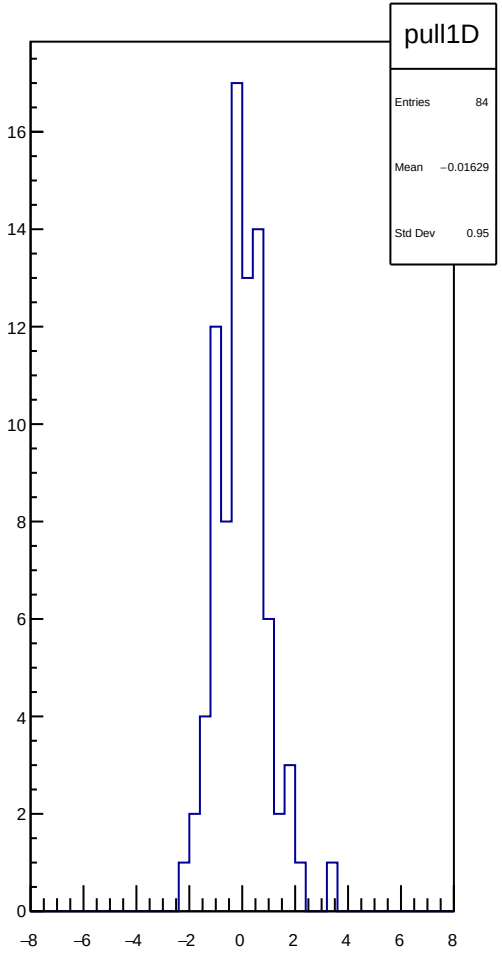

pull1D
Entries 84
Mean 0.02564
Std Dev 1.161

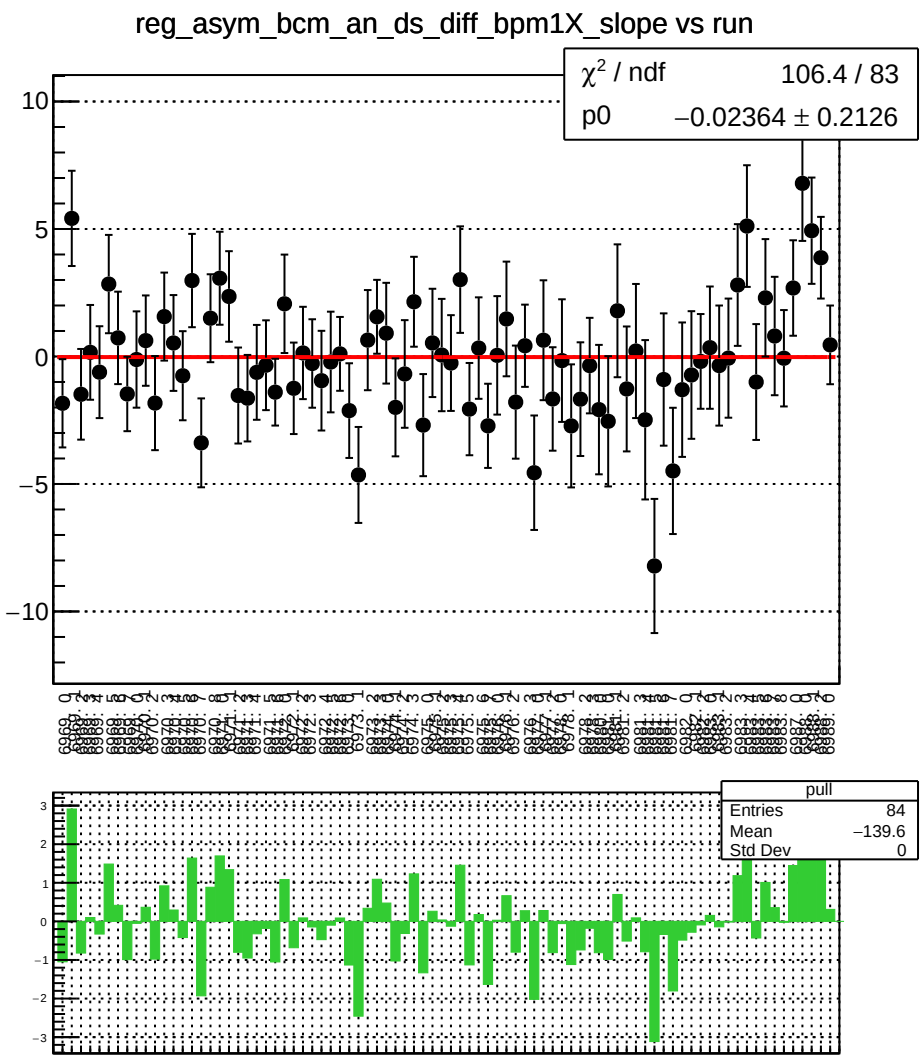

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 105.5 / 83
p0 −0.5117 ± 0.1957
pull
Entries 84
Mean −146.5
Std Dev 0
pull1D
Entries 84
Mean 0.01238
Std Dev 1.121

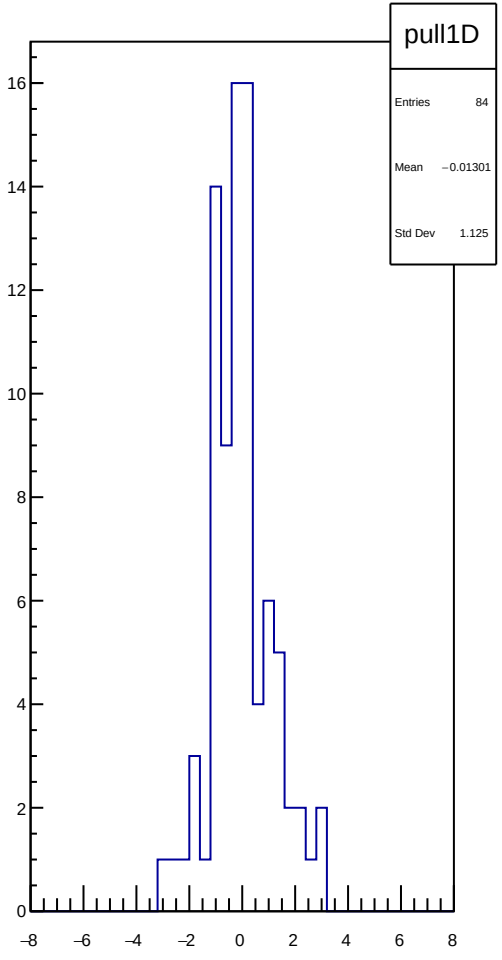

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 111 / 83
p0 −2.003 ± 0.1722
pull
Entries 84
Mean 245.7
Std Dev 0

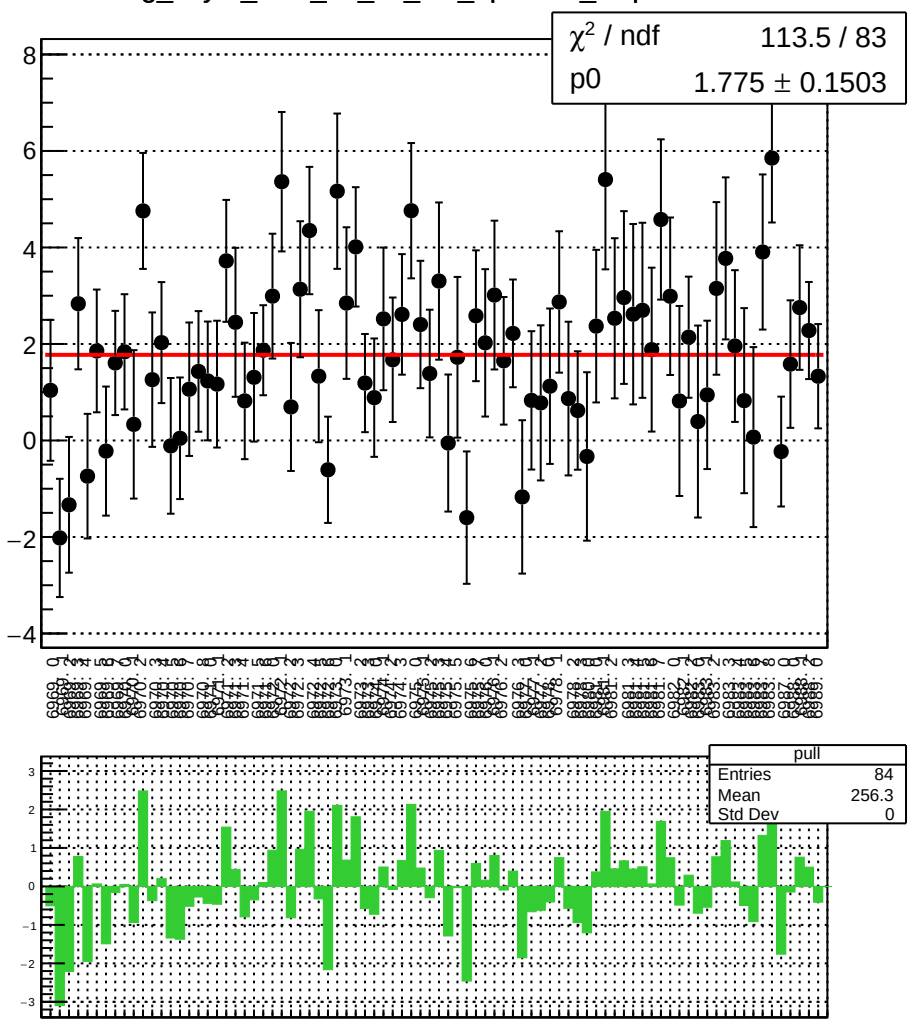

pull1D
Entries 84
Mean −0.02616
Std Dev 1.149

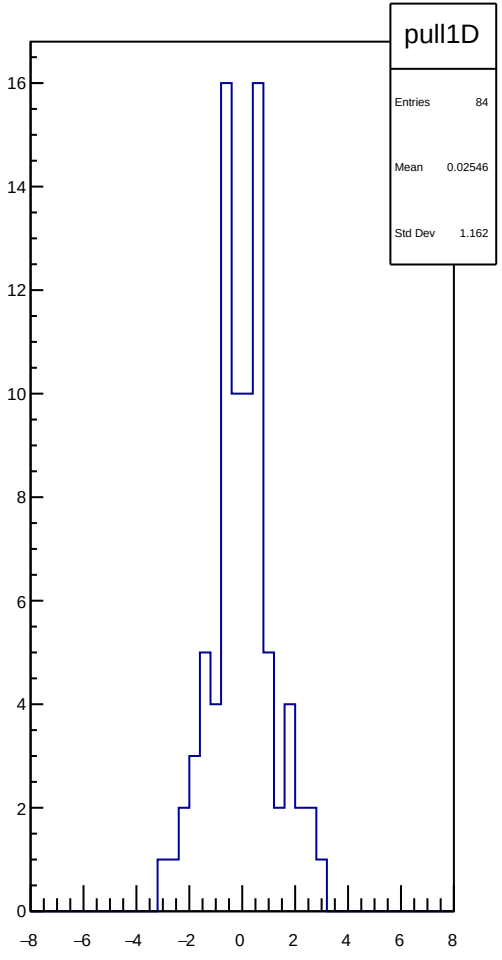

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 75.84 / 83
p0 −0.04761 ± 0.006389
pull
Entries 84
Mean 107.2
Std Dev 0

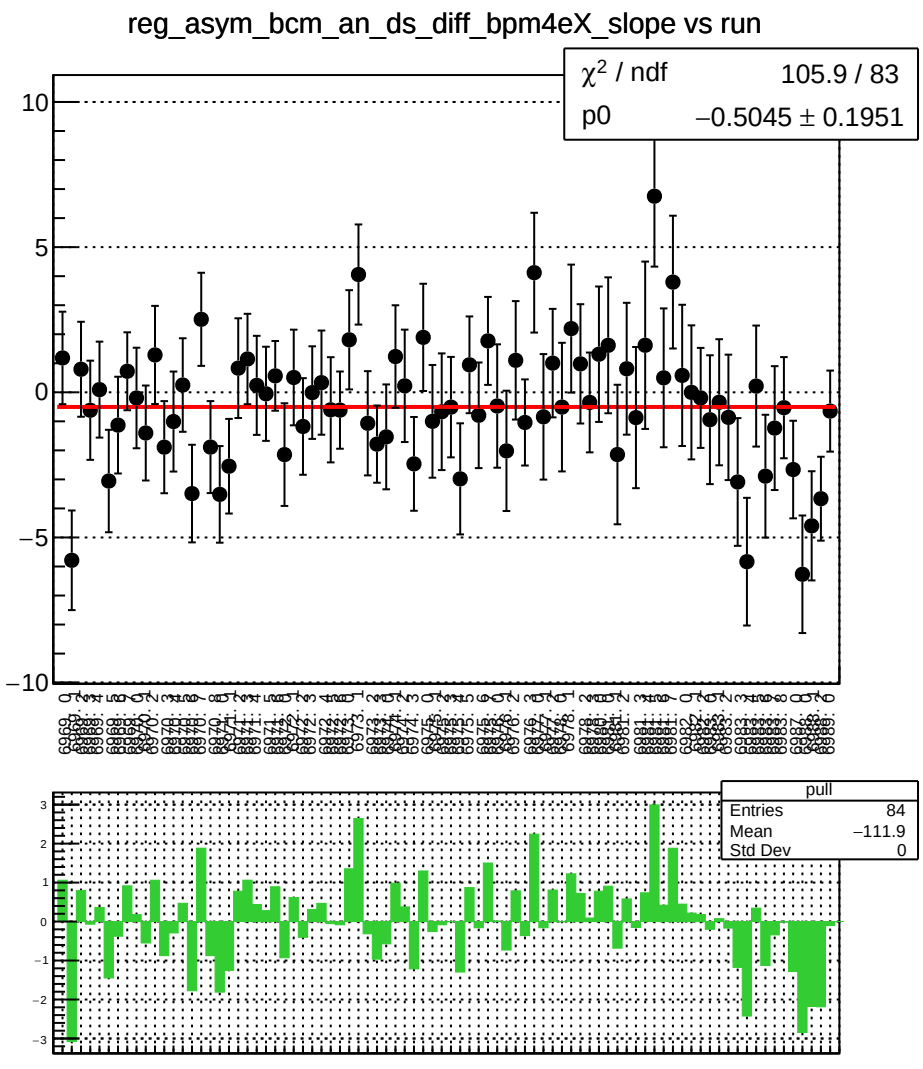

pull1D
Entries 84
Mean −0.01629
Std Dev 0.95

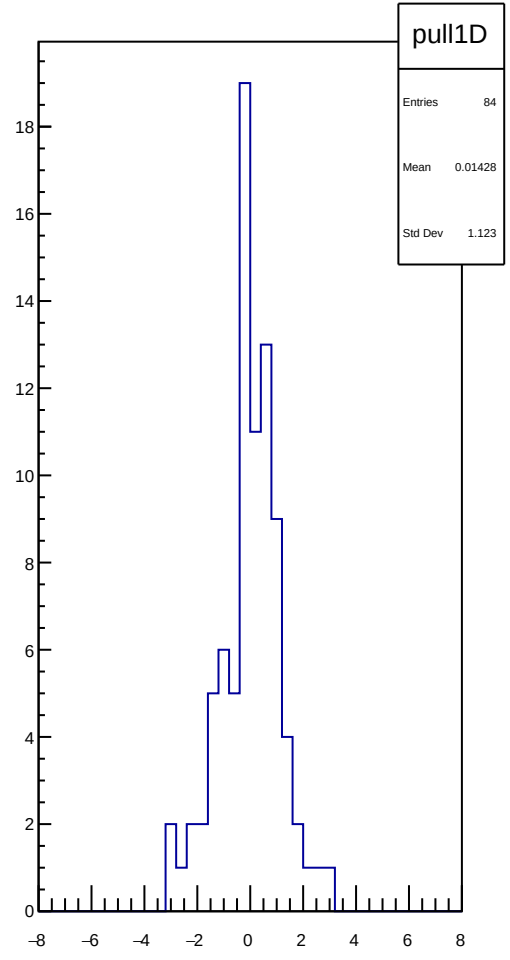

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 106.4 / 83
p0 −0.02364 ± 0.2126
pull
Entries 84
Mean −139.6
Std Dev 0

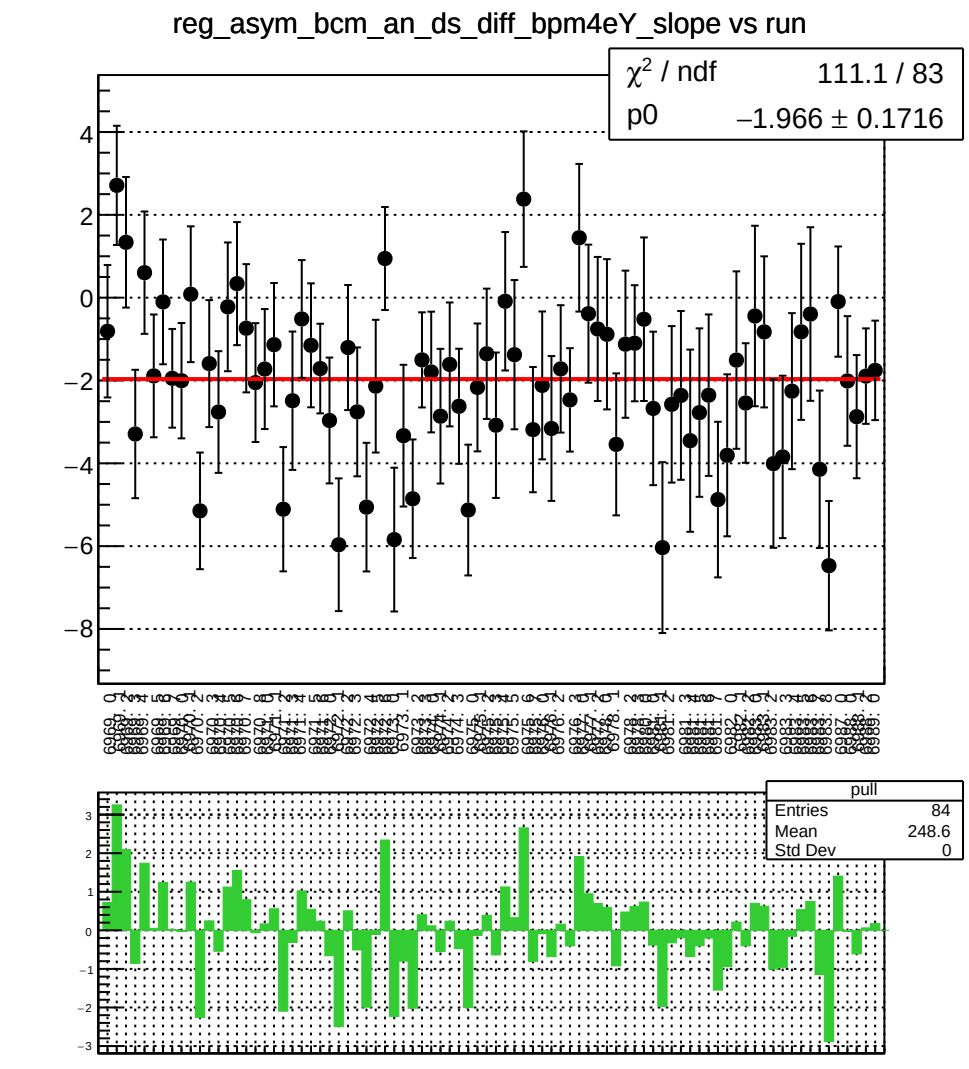

pull1D
Entries 84
Mean −0.01301
Std Dev 1.125

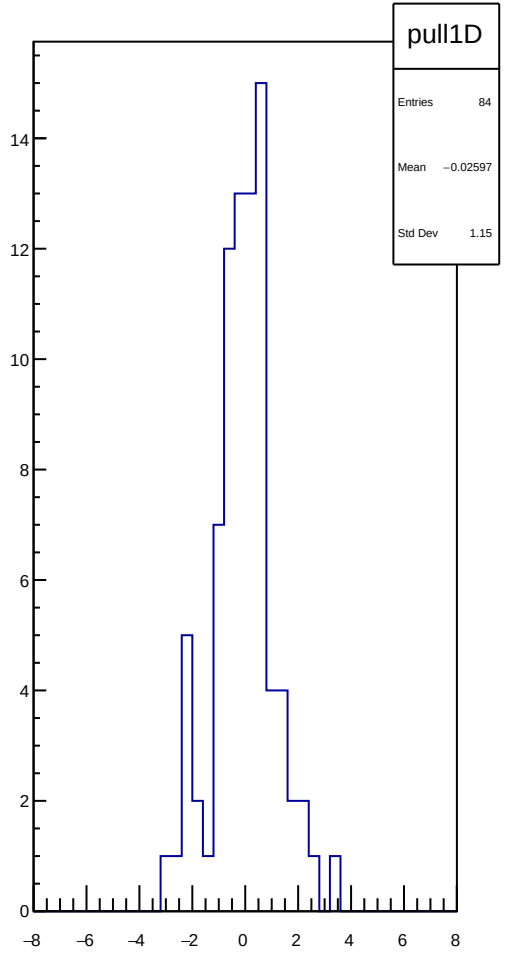

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 113.5 / 83
p0 1.775 ± 0.1503
pull
Entries 84
Mean 256.3
Std Dev 0

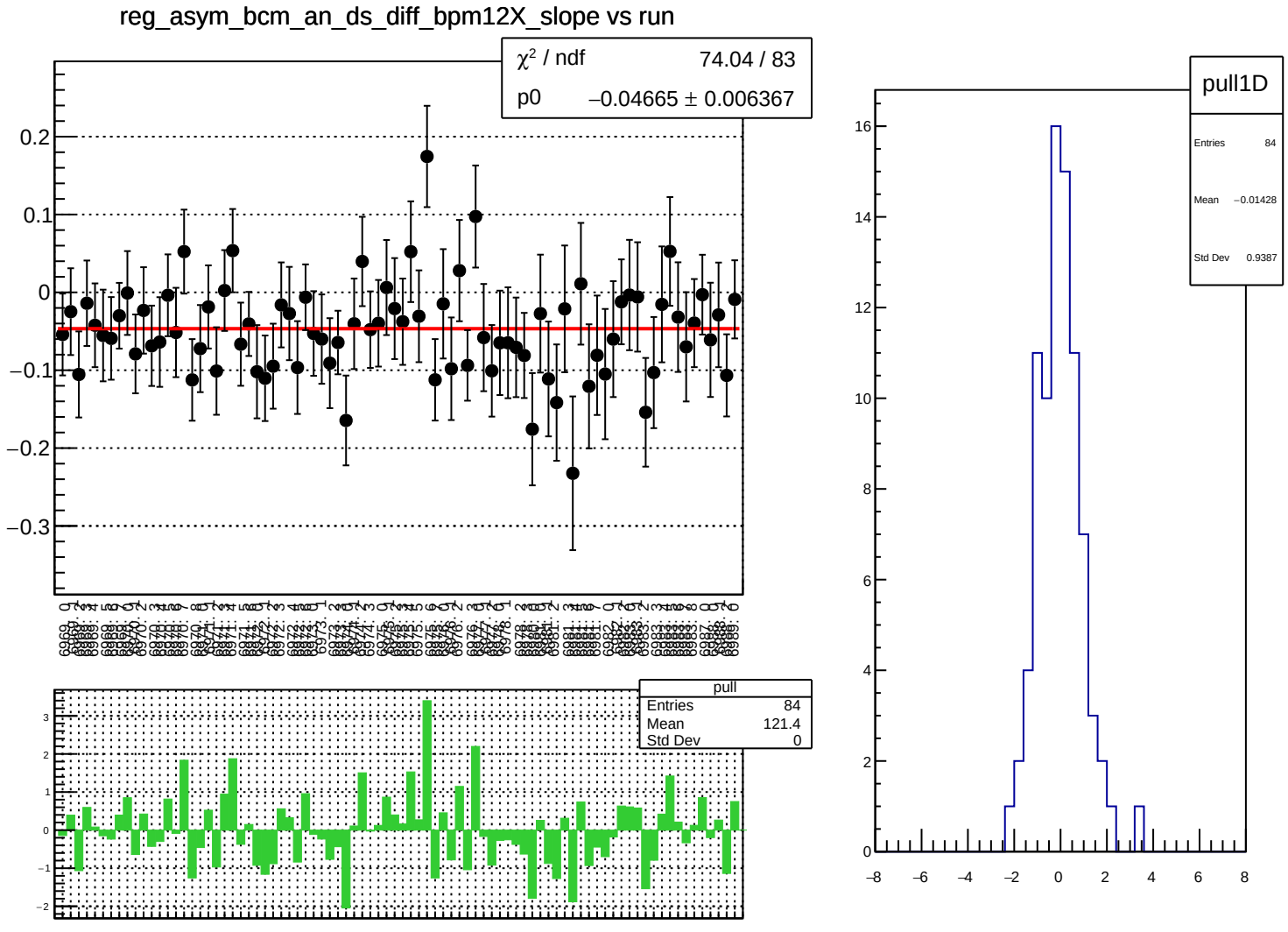

pull1D
Entries 84
Mean 0.02546
Std Dev 1.162

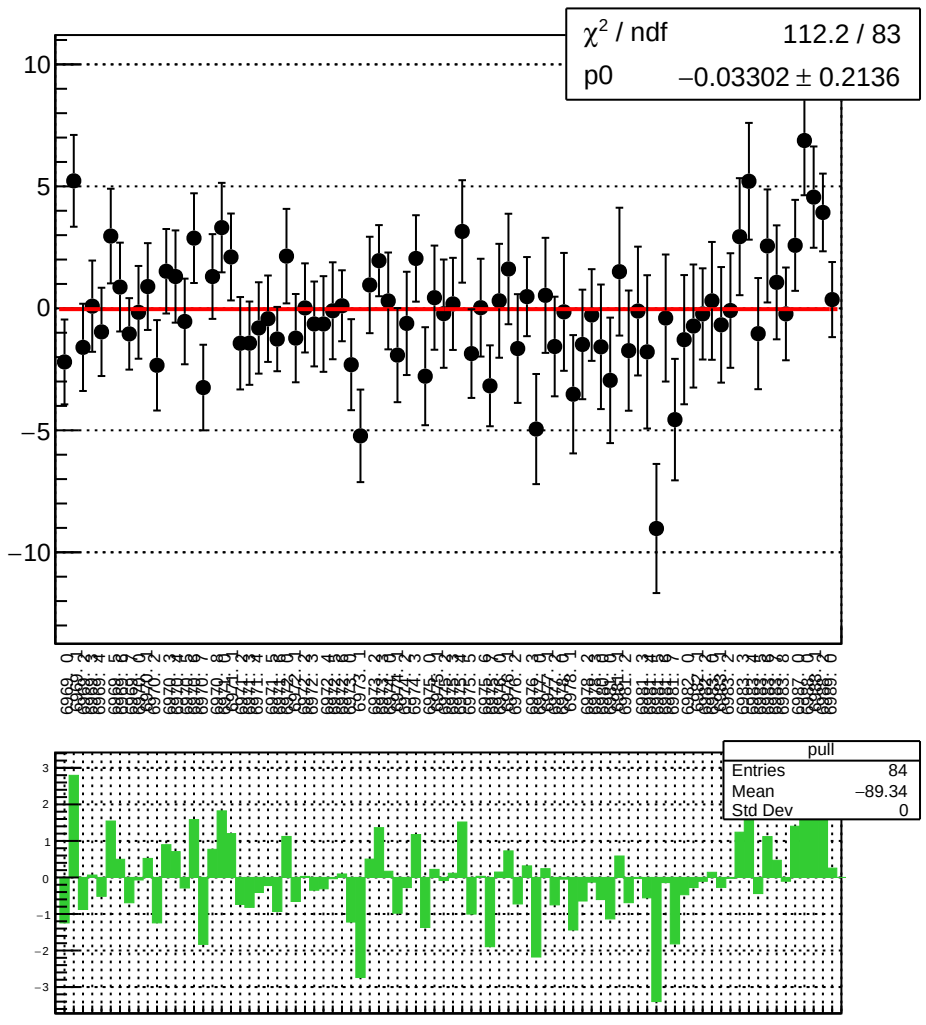

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 105.9 / 83
p0 −0.5045 ± 0.1951
pull
Entries 84
Mean −111.9
Std Dev 0

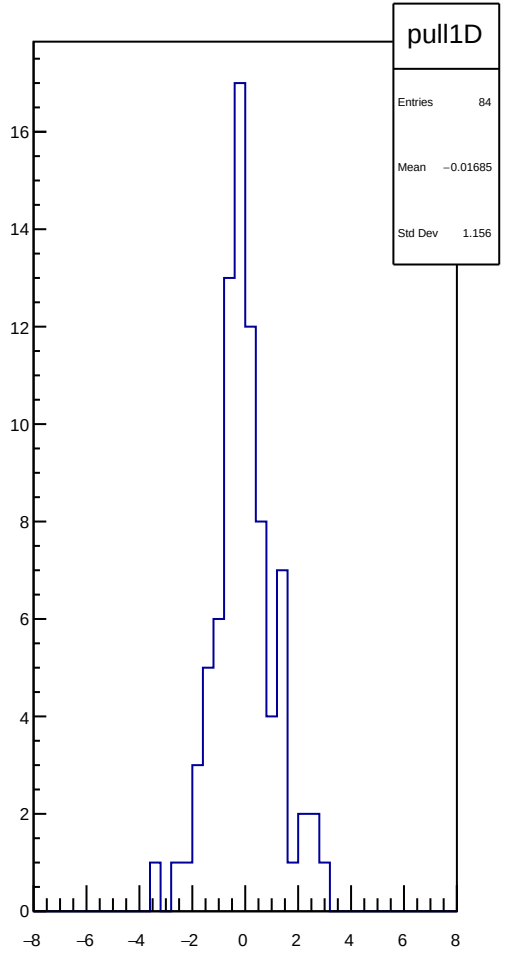

pull1D
Entries 84
Mean 0.01428
Std Dev 1.123

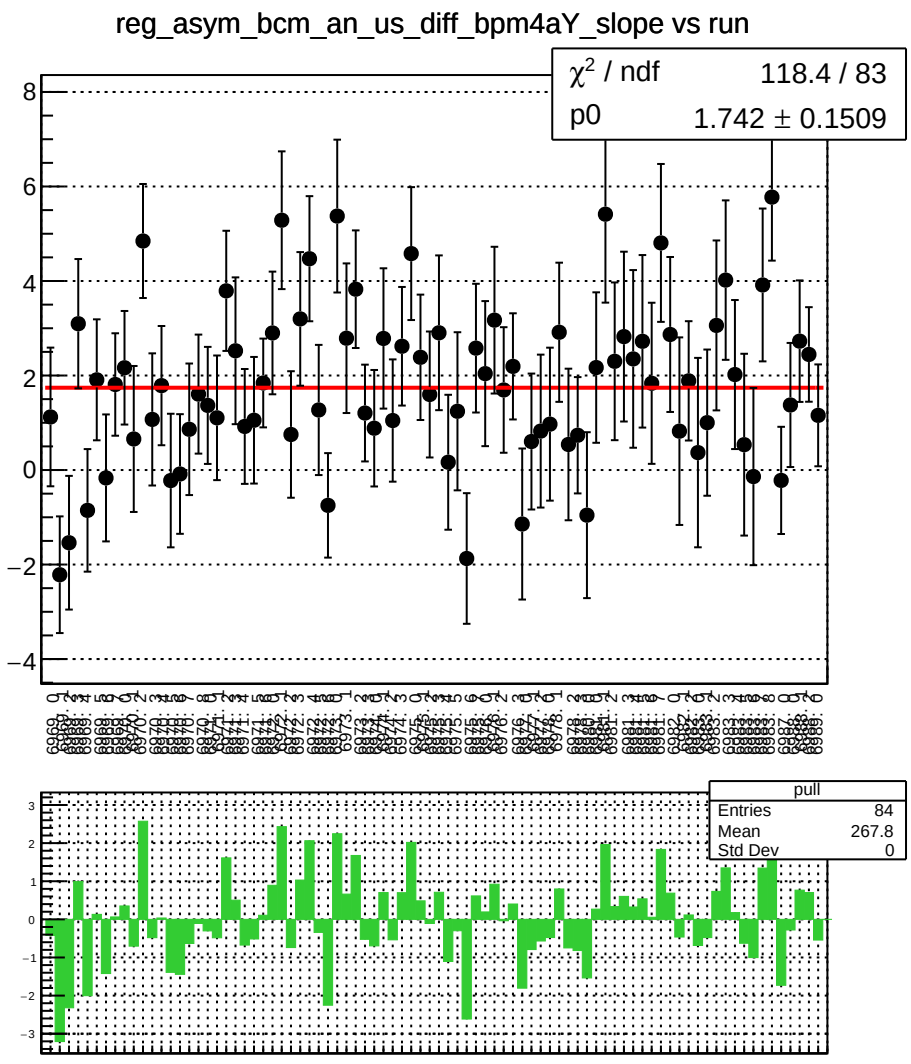

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 111.1 / 83
p0 −1.966 ± 0.1716
pull
Entries 84
Mean 248.6
Std Dev 0

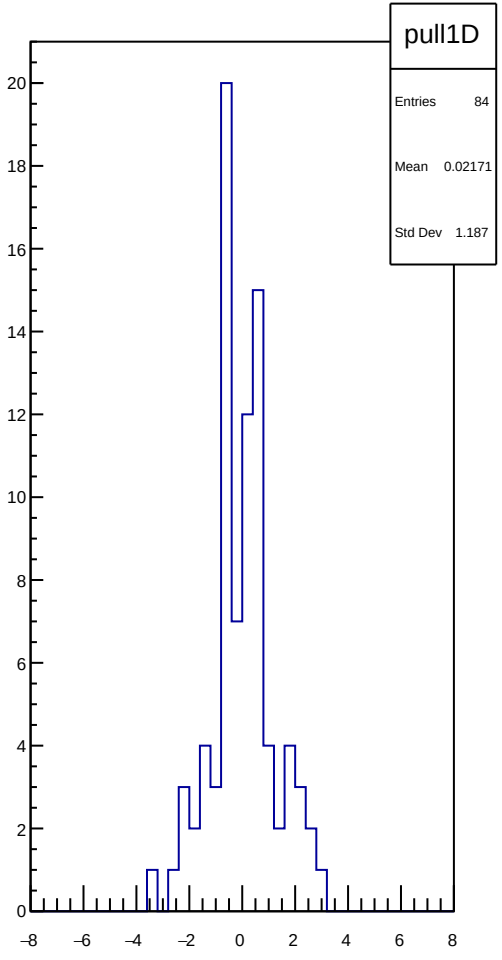

pull1D
Entries 84
Mean −0.02597
Std Dev 1.15

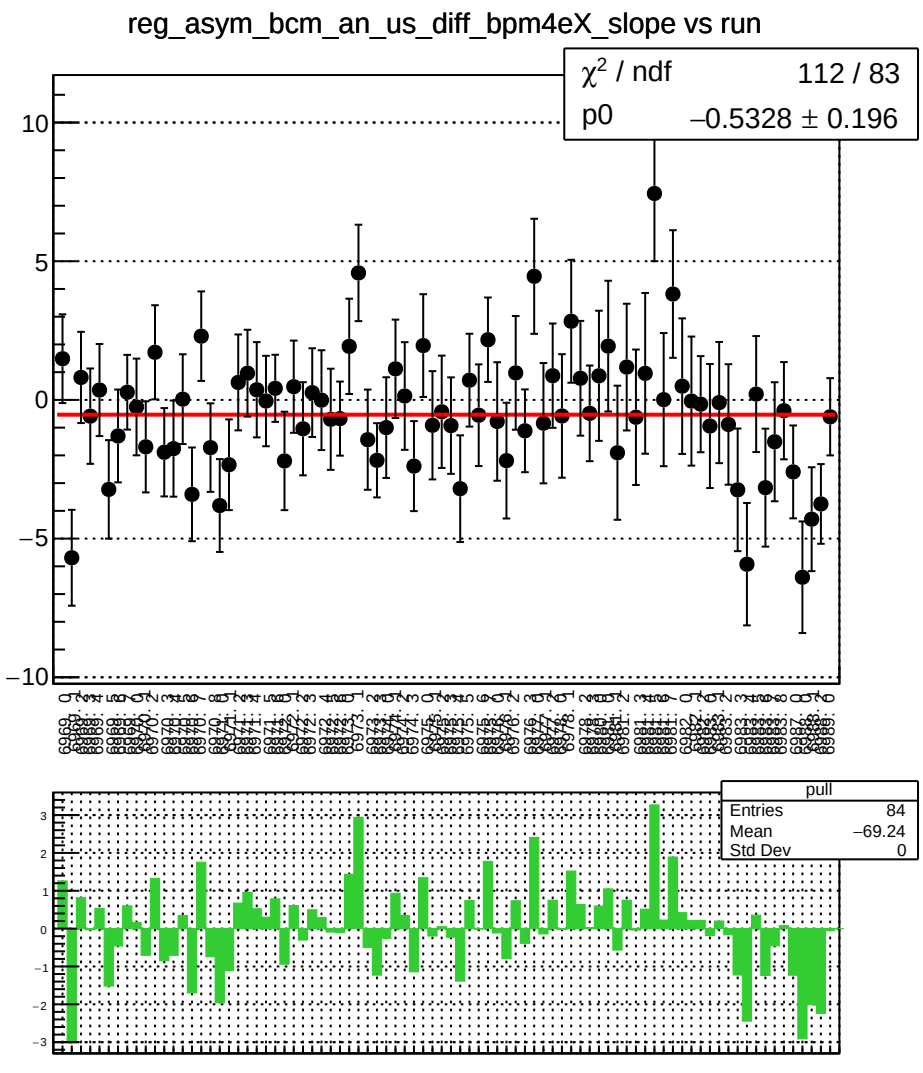

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 74.04 / 83
p0 −0.04665 ± 0.006367
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 84
Mean 121.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01428
Std Dev 0.9387
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

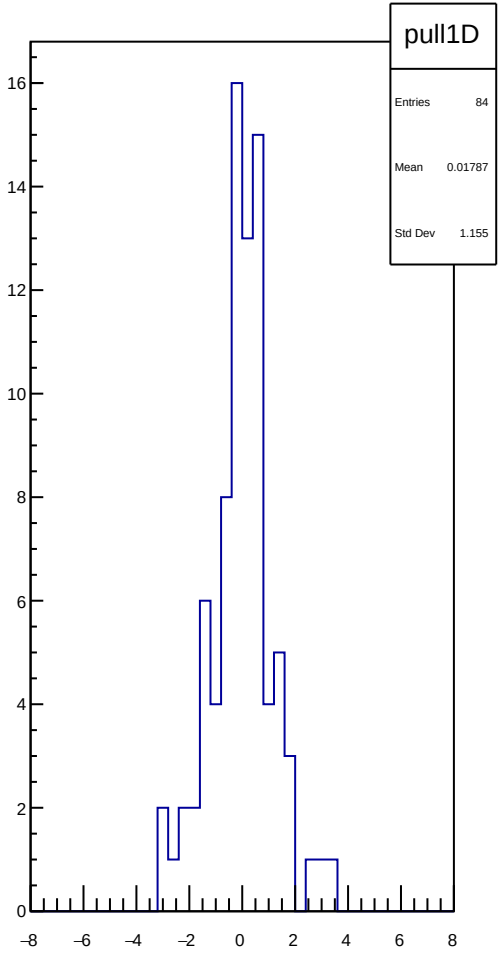

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 112.2 / 83
p0 −0.03302 ± 0.2136
pull
Entries 84
Mean −89.34
Std Dev 0

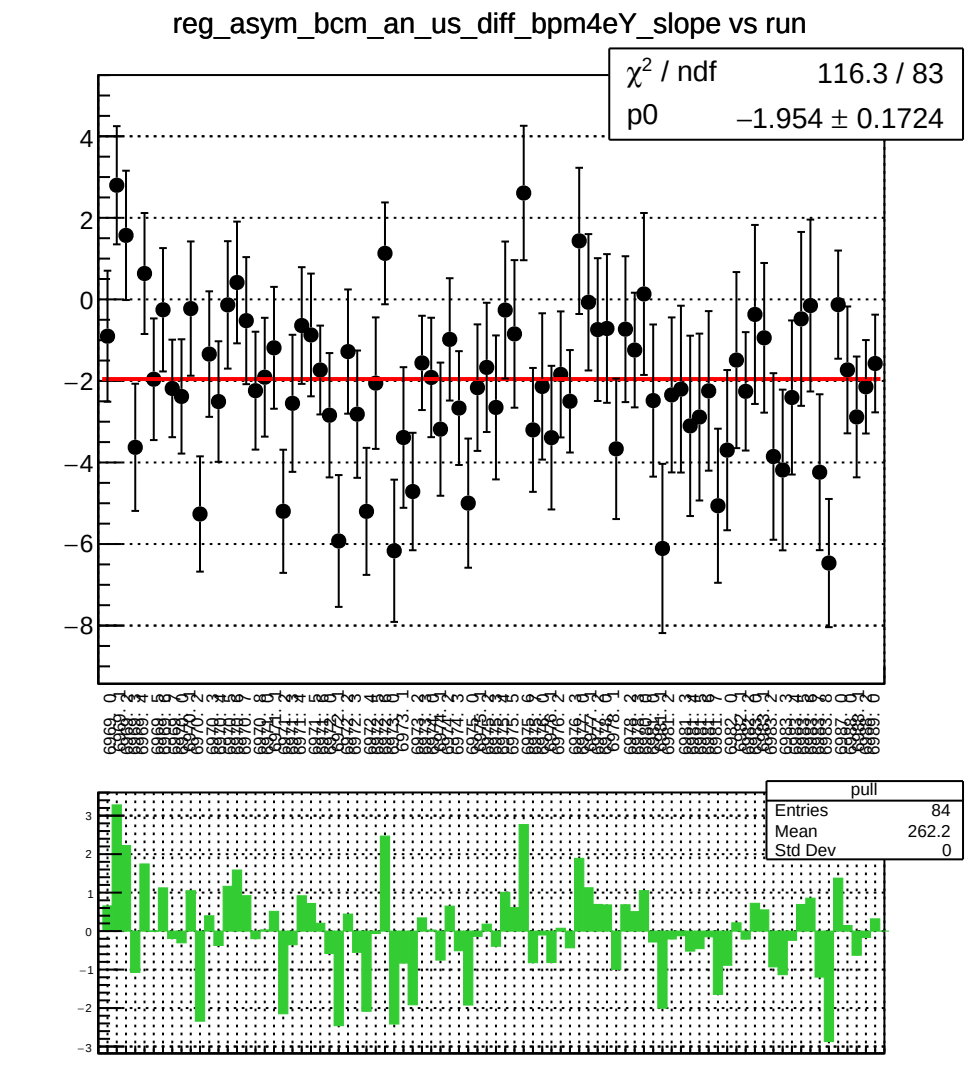

pull1D
Entries 84
Mean −0.01685
Std Dev 1.156

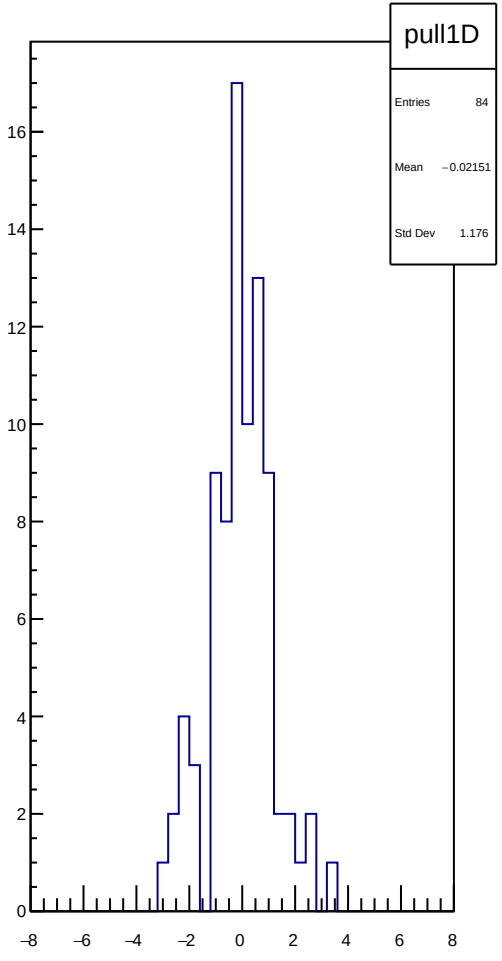

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 118.4 / 83
p0 1.742 ± 0.1509
pull
Entries 84
Mean 267.8
Std Dev 0

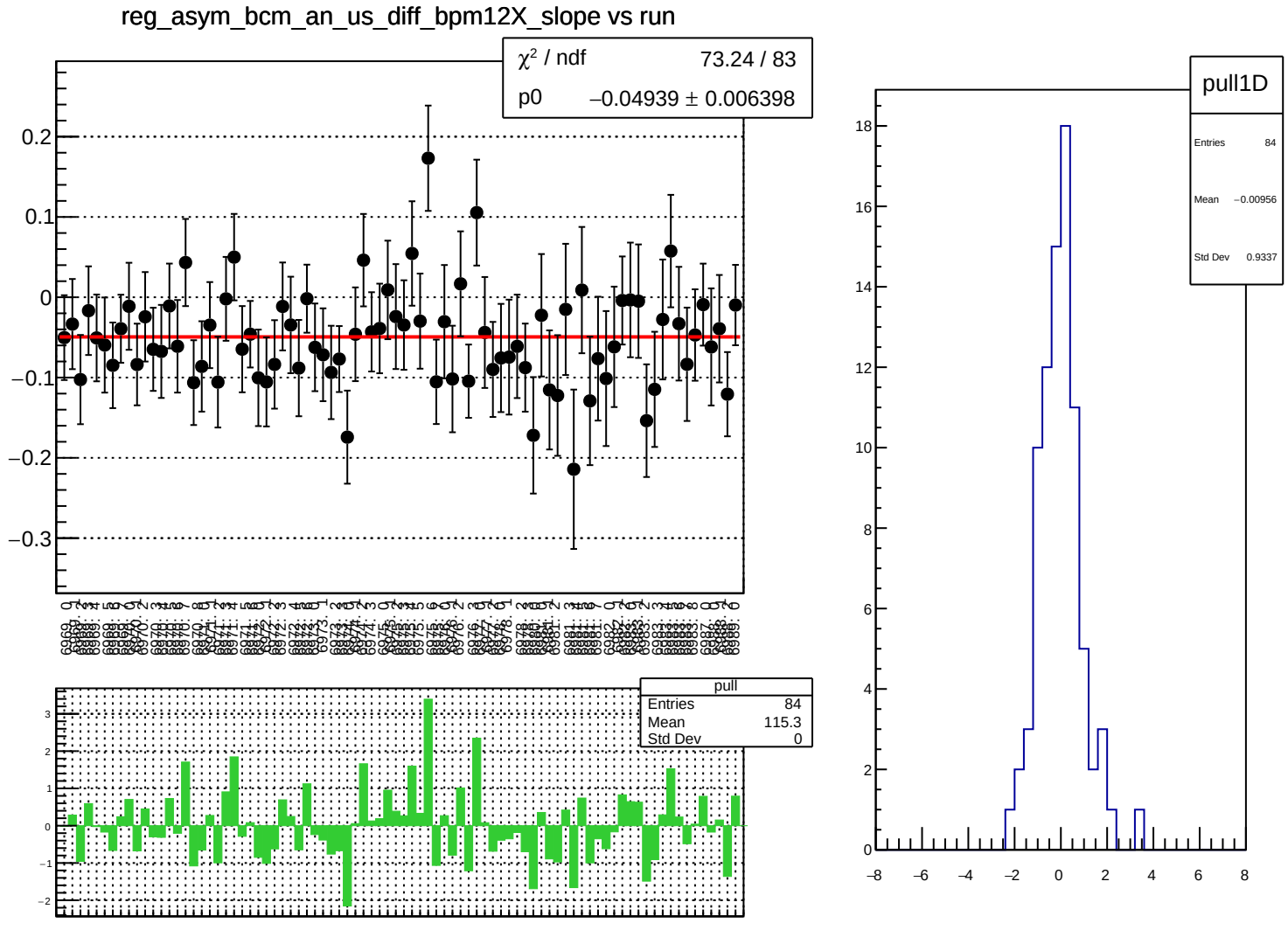

pull1D
Entries 84
Mean 0.02171
Std Dev 1.187

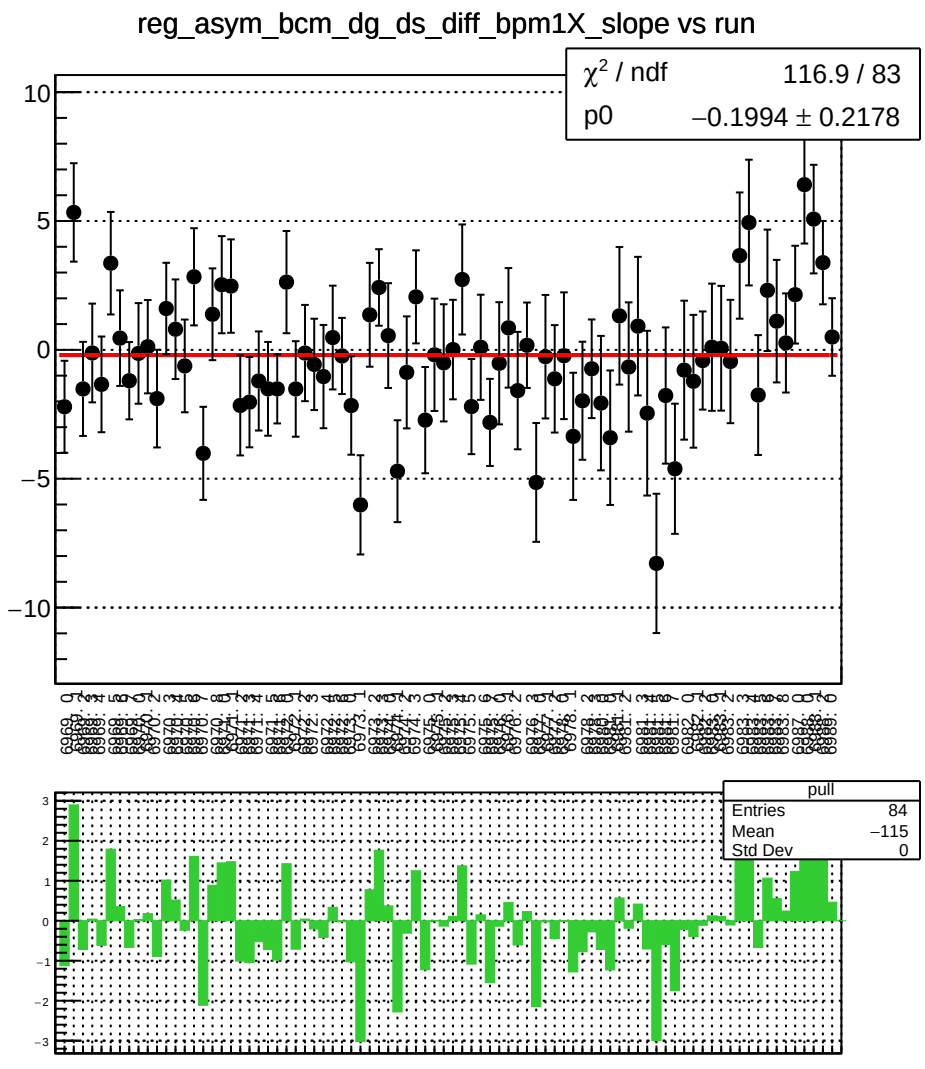

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 112 / 83
p0 −0.5328 ± 0.196
pull
Entries 84
Mean −69.24
Std Dev 0

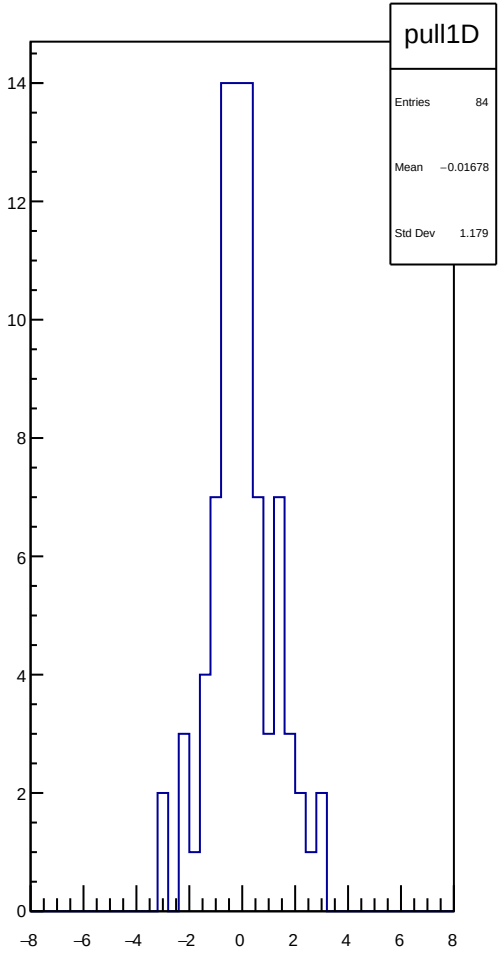

pull1D
Entries 84
Mean 0.01787
Std Dev 1.155

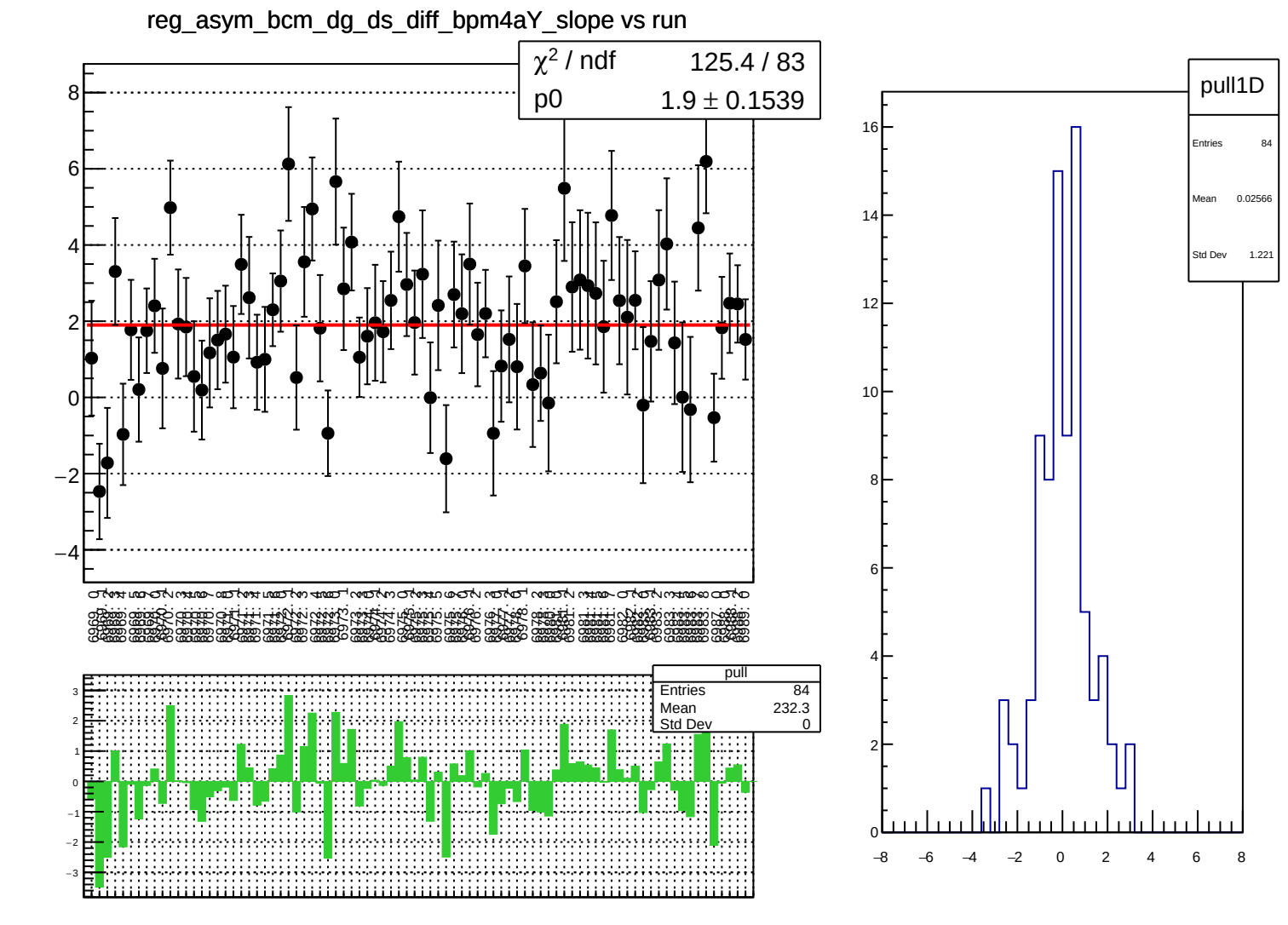

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 116.3 / 83
p0 −1.954 ± 0.1724
pull
Entries 84
Mean 262.2
Std Dev 0

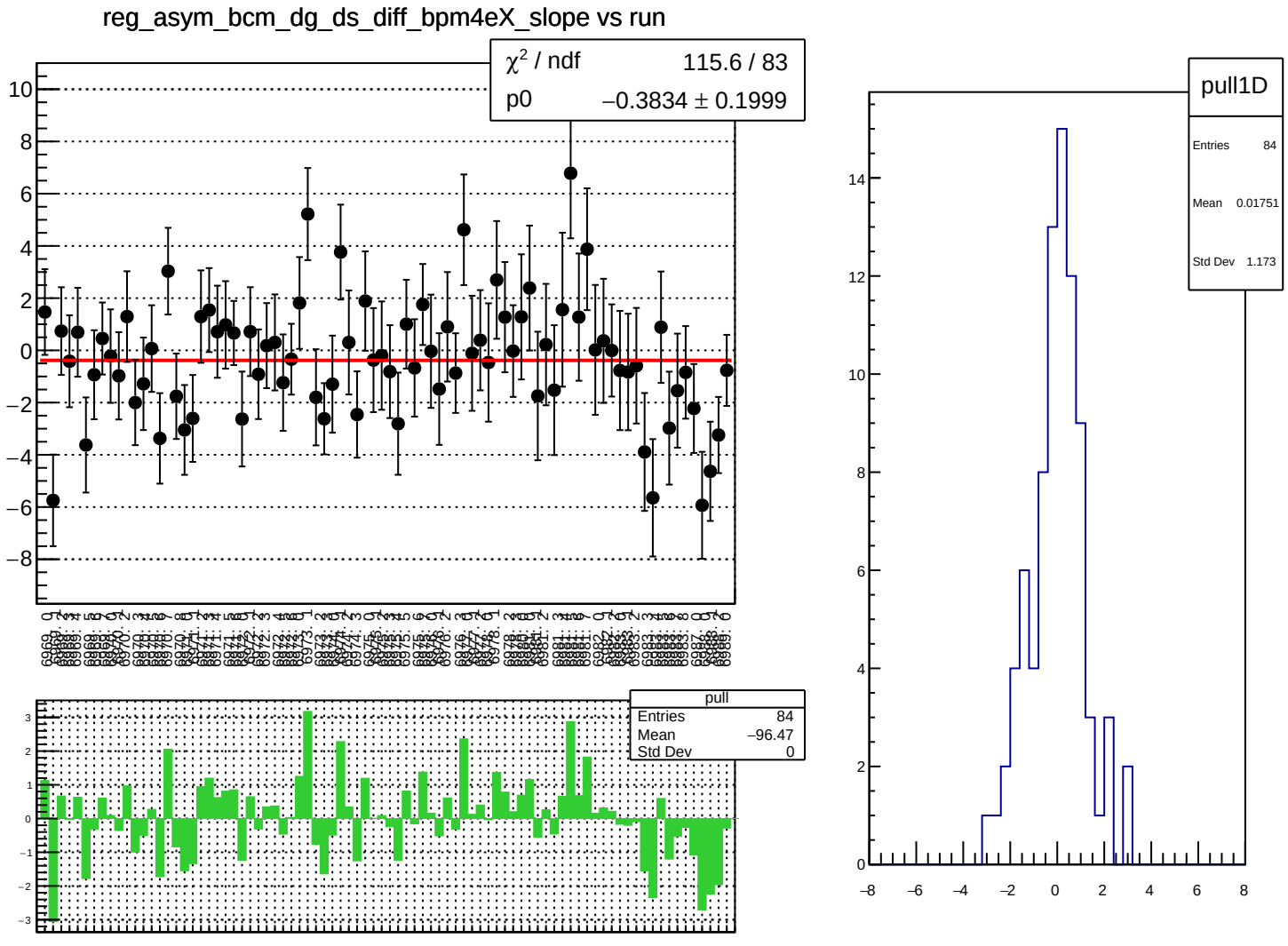

pull1D
Entries 84
Mean −0.02151
Std Dev 1.176

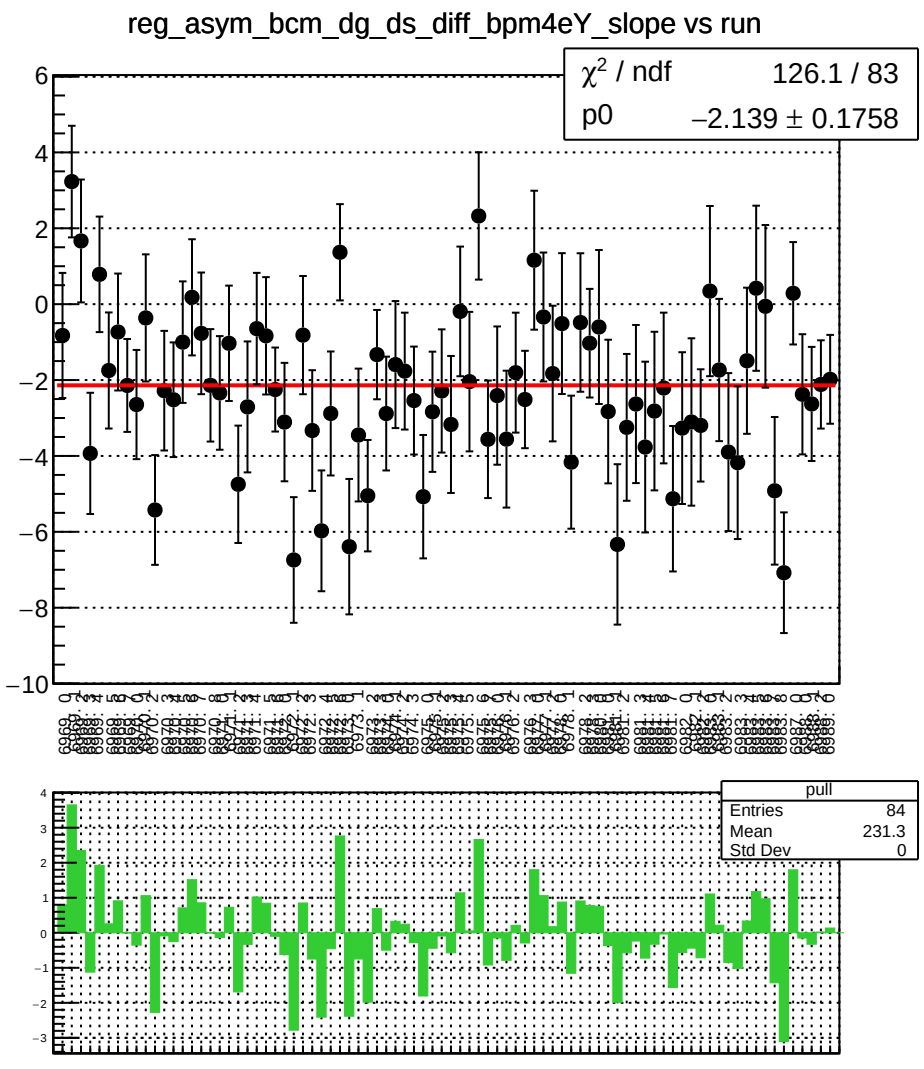

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 73.24 / 83
p0 −0.04939 ± 0.006398
pull
Entries 84
Mean 115.3
Std Dev 0
pull1D
Entries 84
Mean −0.00956
Std Dev 0.9337

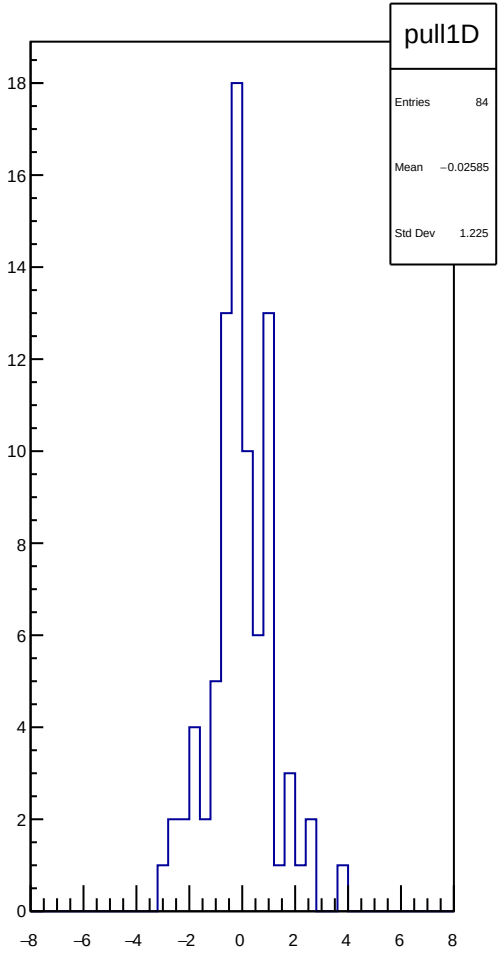

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 116.9 / 83
p0 −0.1994 ± 0.2178
pull
Entries 84
Mean −115
Std Dev 0

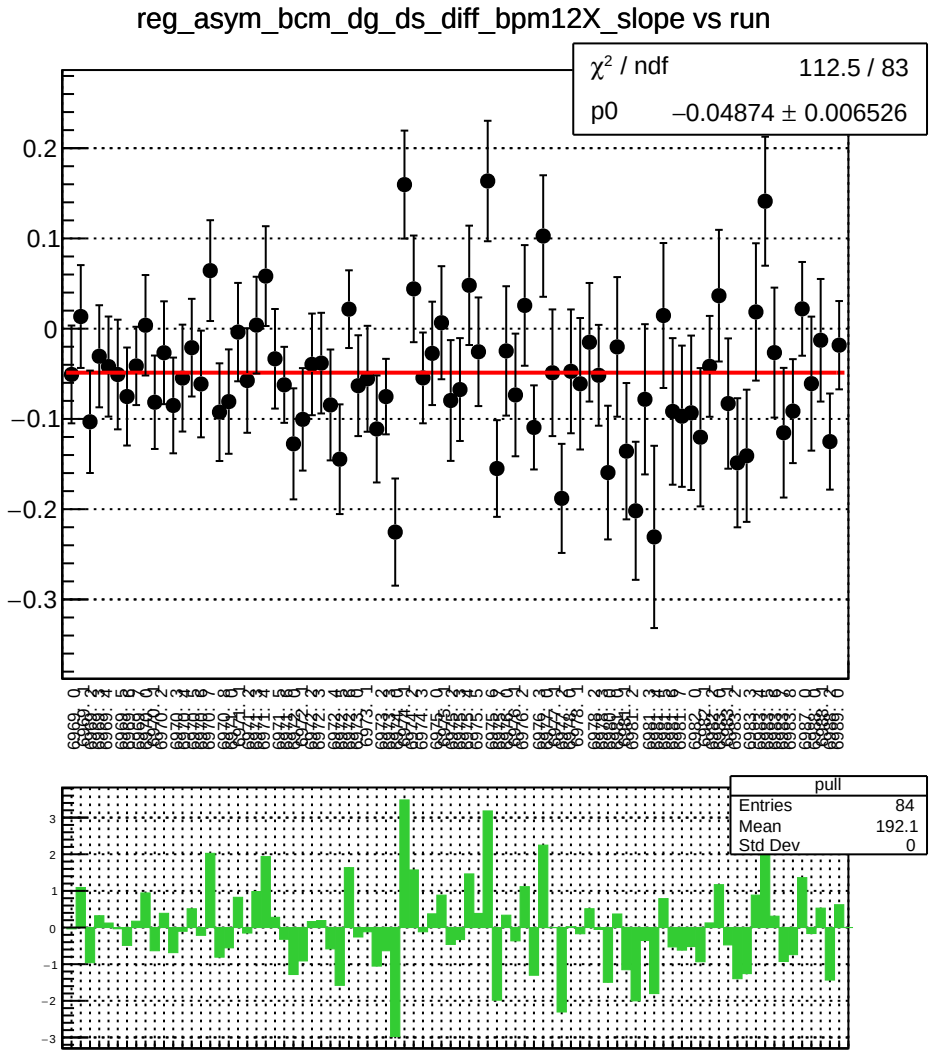

pull1D
Entries 84
Mean −0.01678
Std Dev 1.179

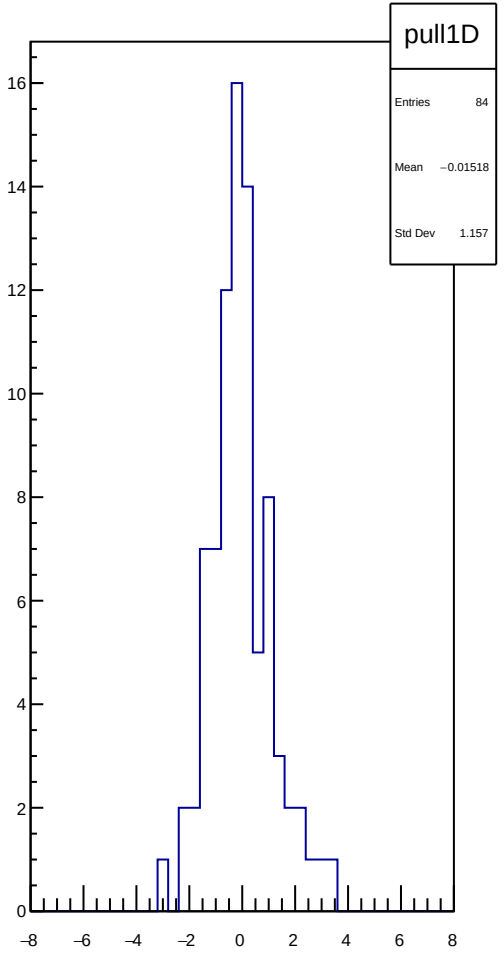

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 125.4 / 83
p0 1.9 ± 0.1539
pull
Entries 84
Mean 232.3
Std Dev 0
pull1D
Entries 84
Mean 0.02566
Std Dev 1.221

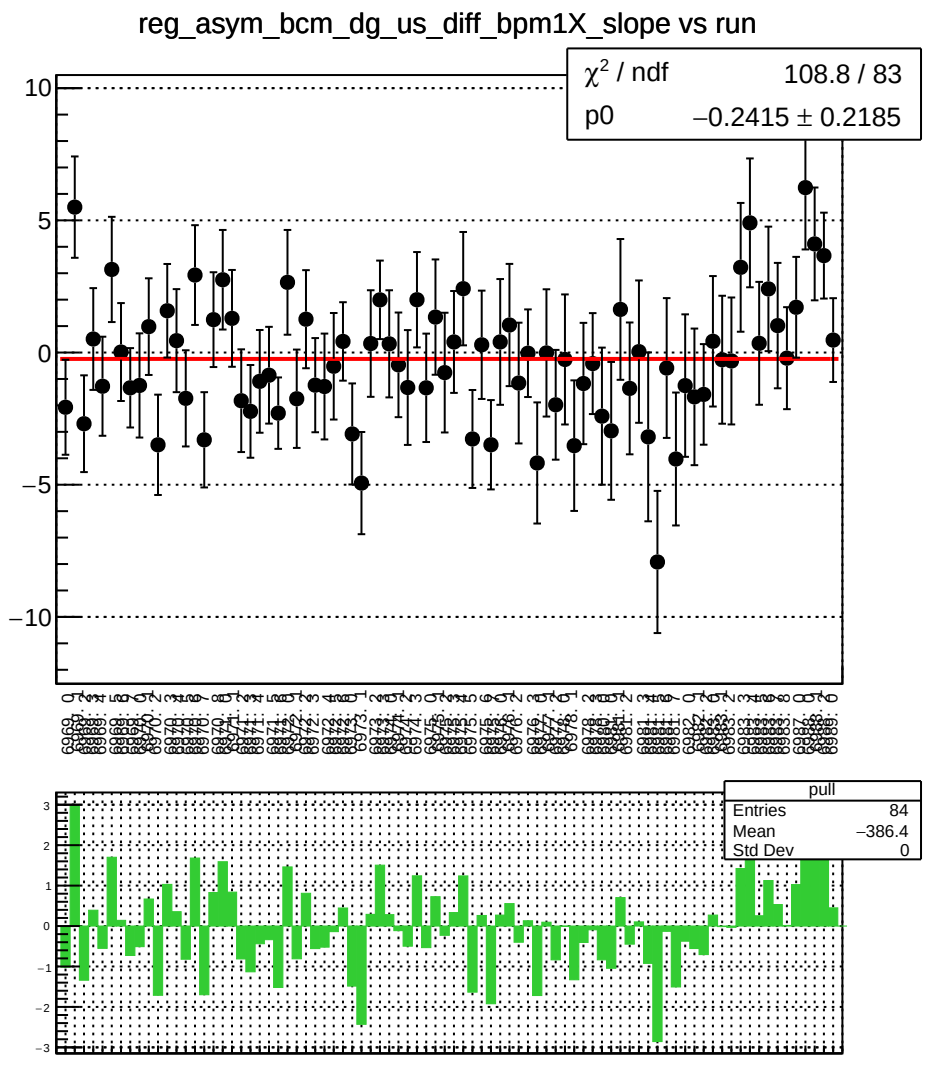

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 115.6 / 83
p0 −0.3834 ± 0.1999
pull
Entries 84
Mean −96.47
Std Dev 0
pull1D
Entries 84
Mean 0.01751
Std Dev 1.173

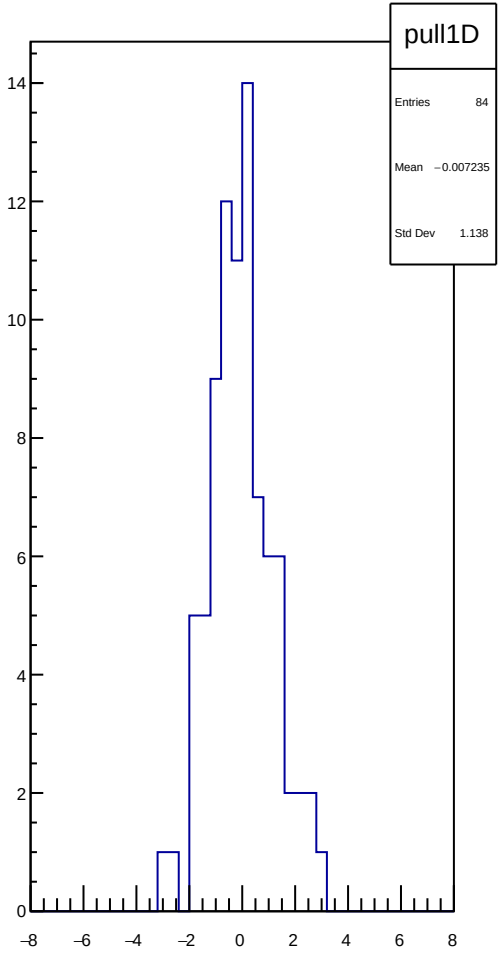

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 126.1 / 83
p0 −2.139 ± 0.1758
pull
Entries 84
Mean 231.3
Std Dev 0

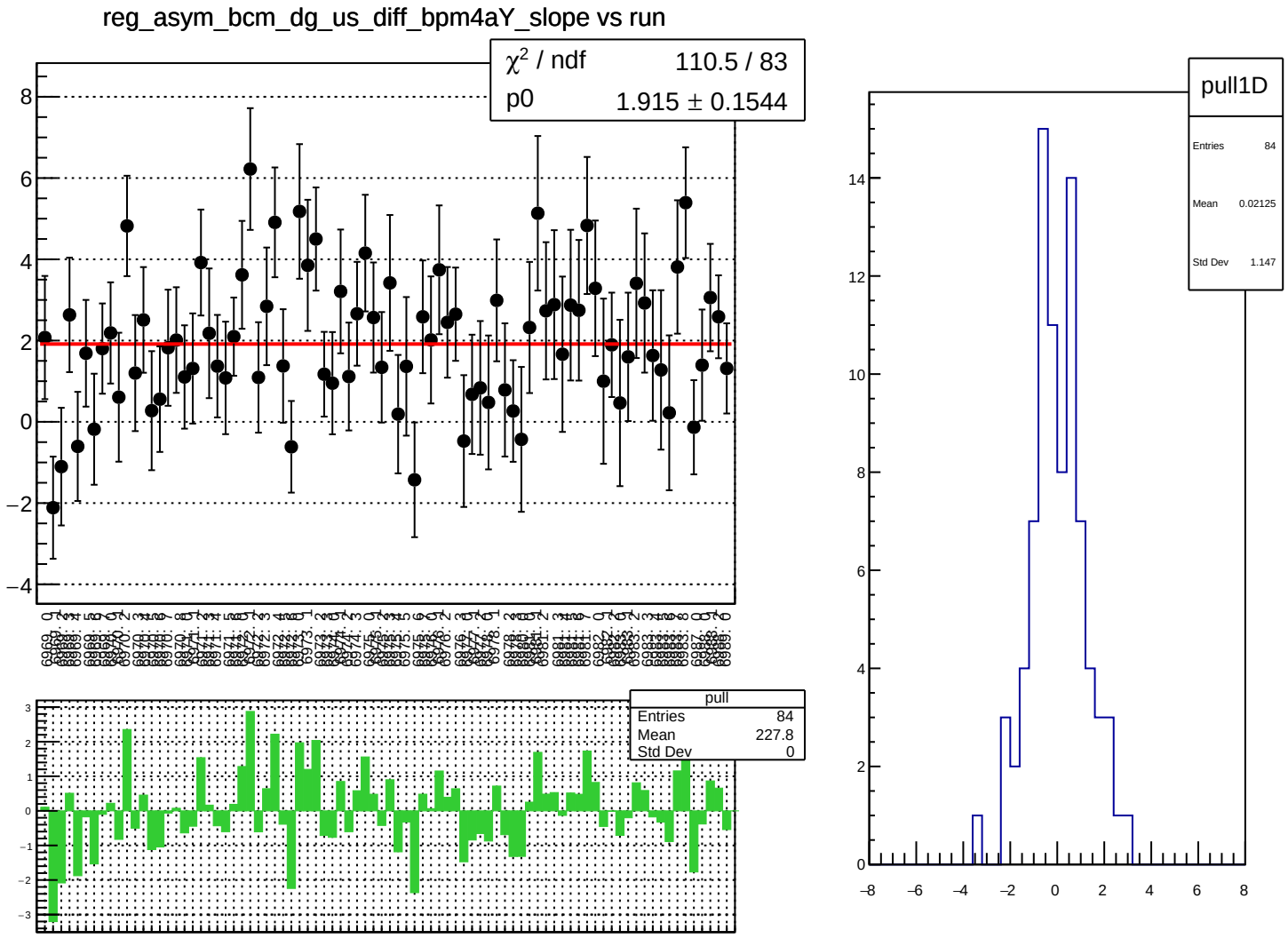

pull1D
Entries 84
Mean −0.02585
Std Dev 1.225

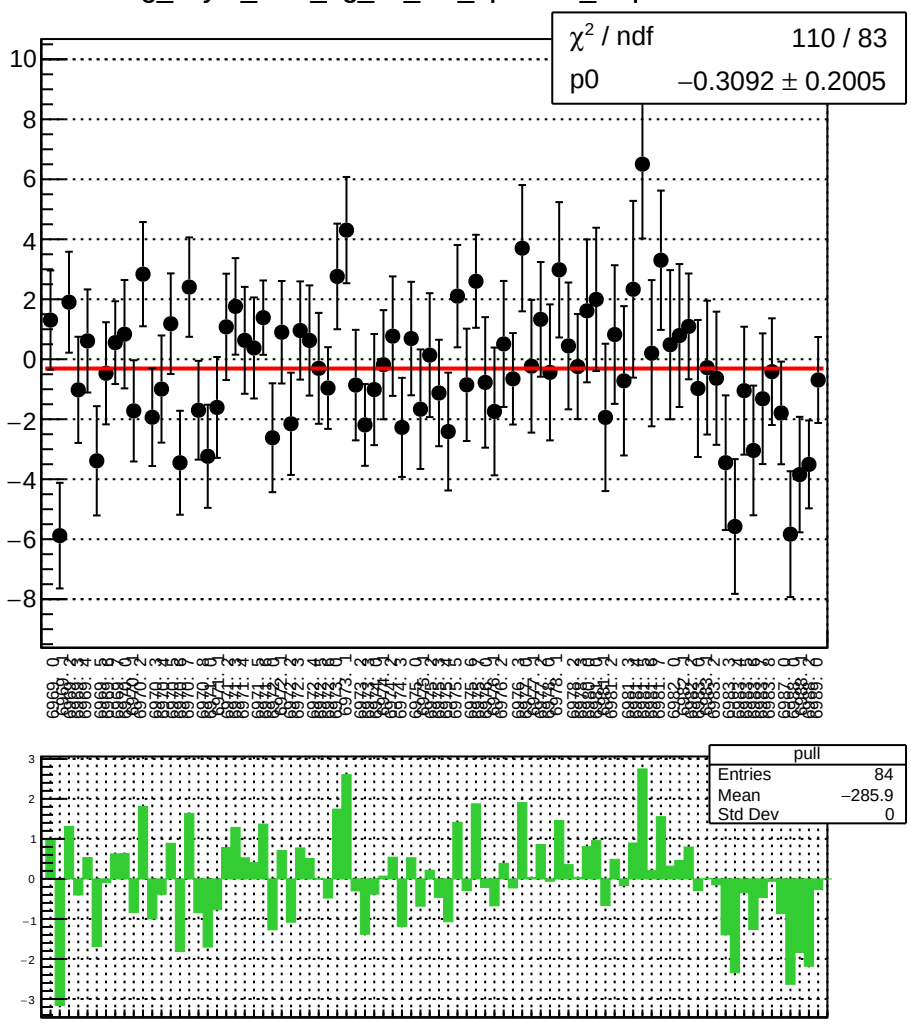

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 112.5 / 83
p0 −0.04874 ± 0.006526
pull
Entries 84
Mean 192.1
Std Dev 0

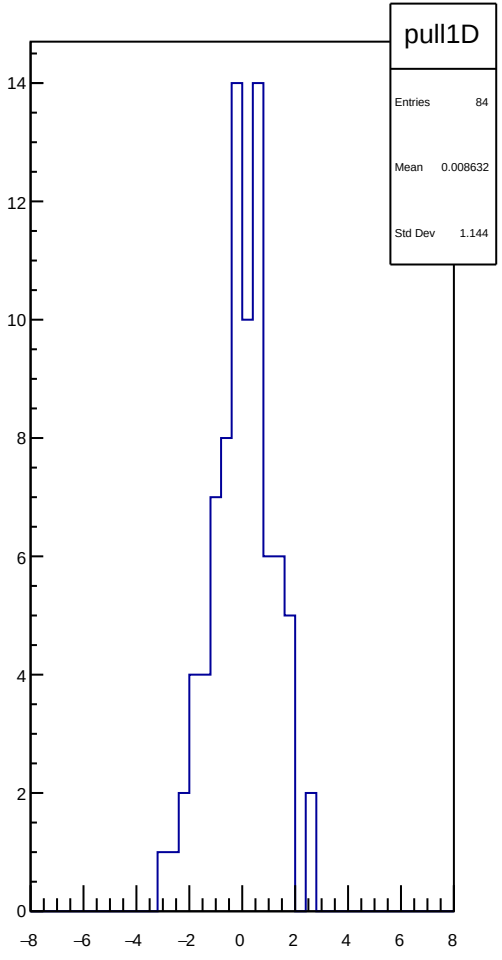

pull1D
Entries 84
Mean −0.01518
Std Dev 1.157

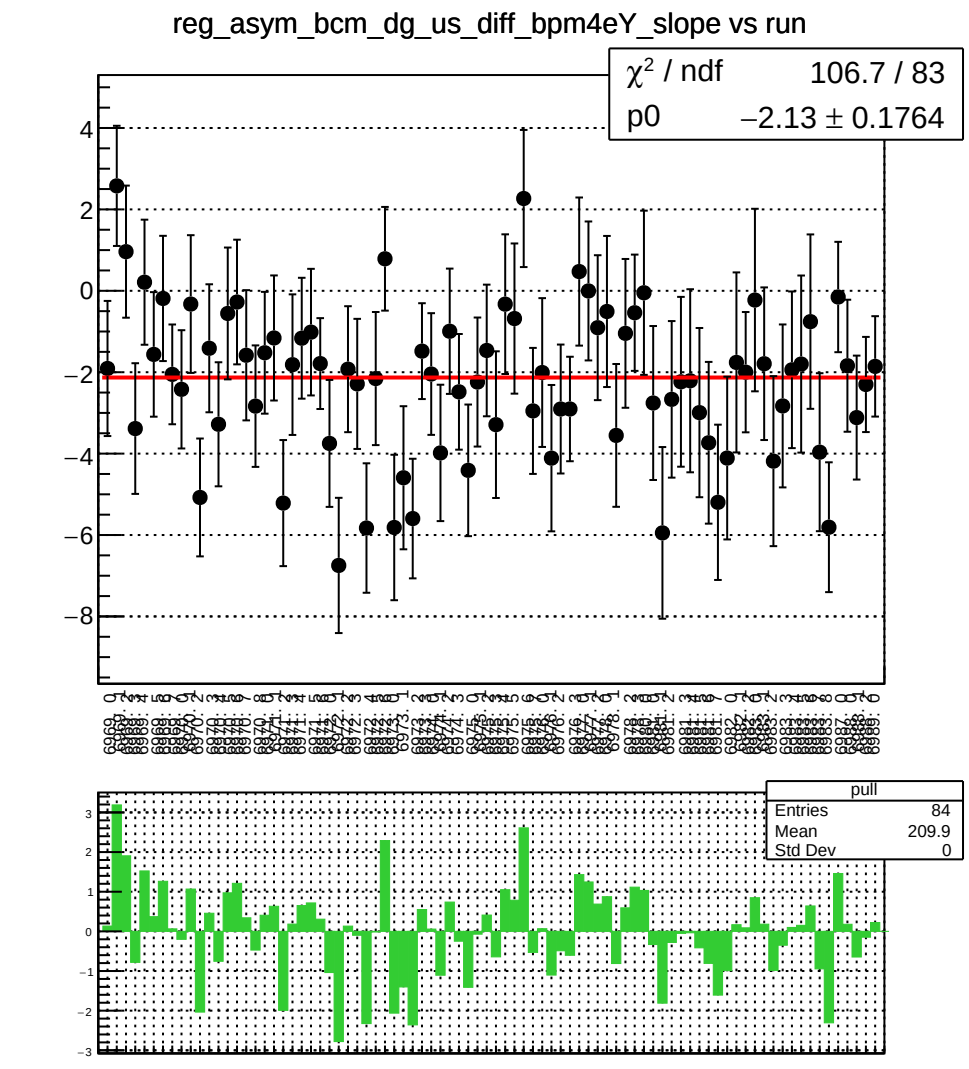

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 108.8 / 83
p0 −0.2415 ± 0.2185
pull
Entries 84
Mean −386.4
Std Dev 0

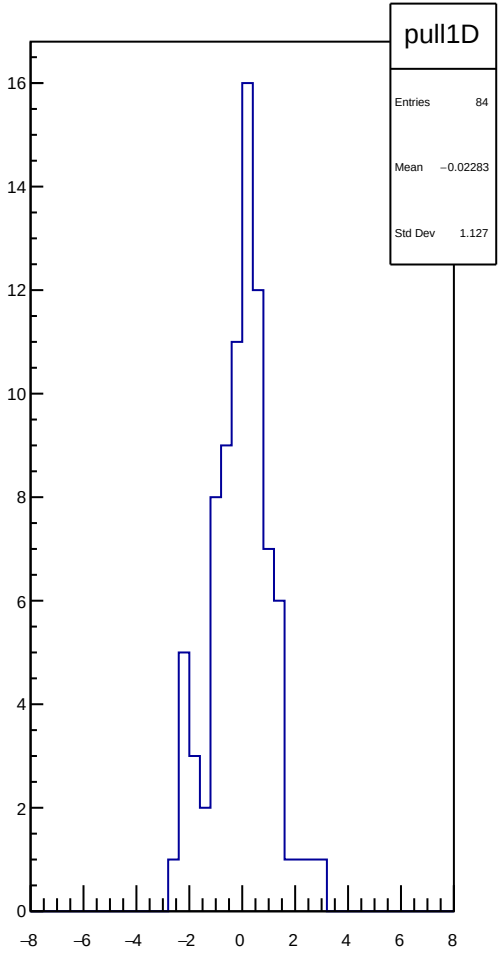

pull1D
Entries 84
Mean −0.007235
Std Dev 1.138

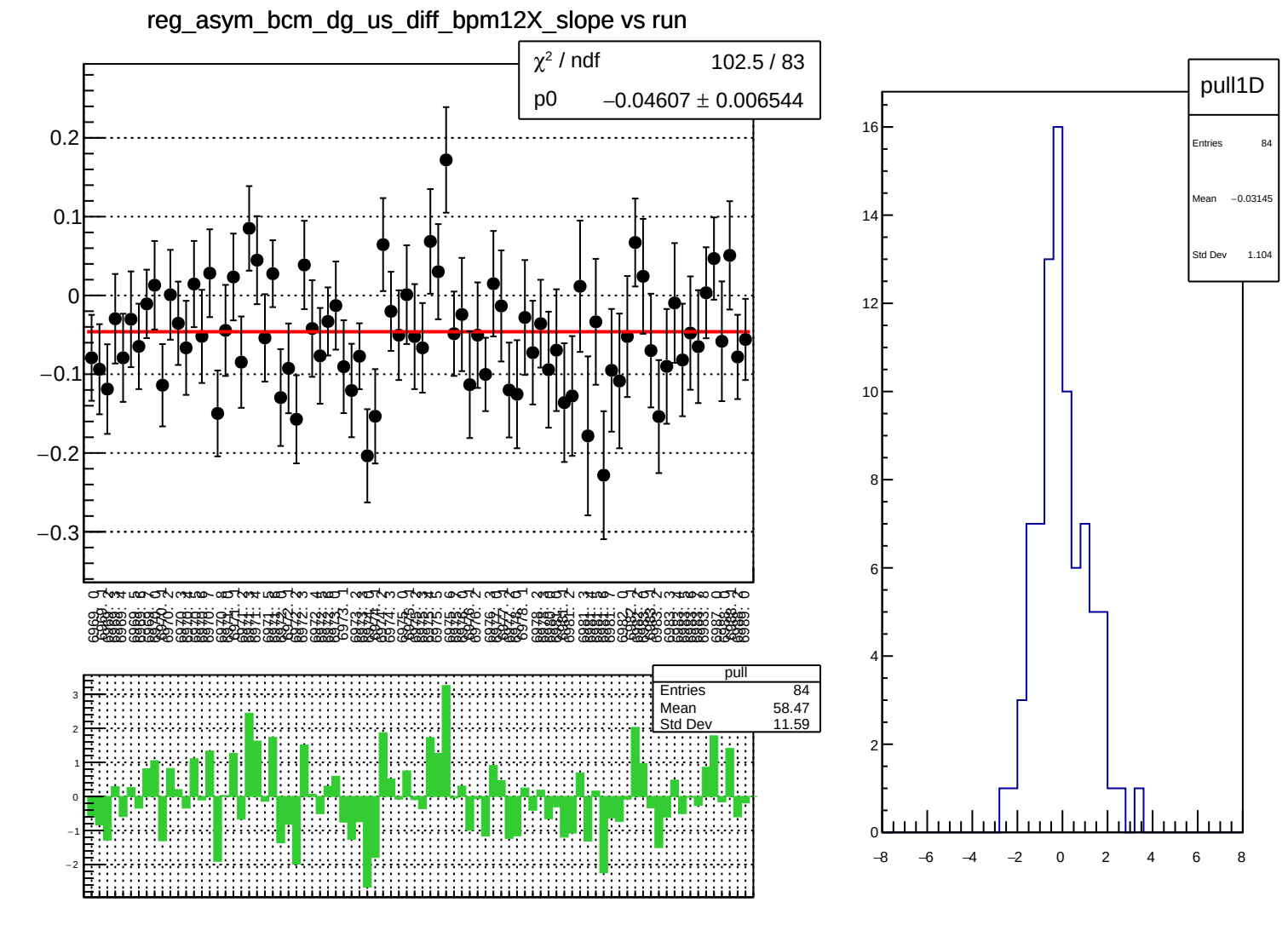

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 110.5 / 83
p0 1.915 ± 0.1544
pull
Entries 84
Mean 227.8
Std Dev 0
pull1D
Entries 84
Mean 0.02125
Std Dev 1.147

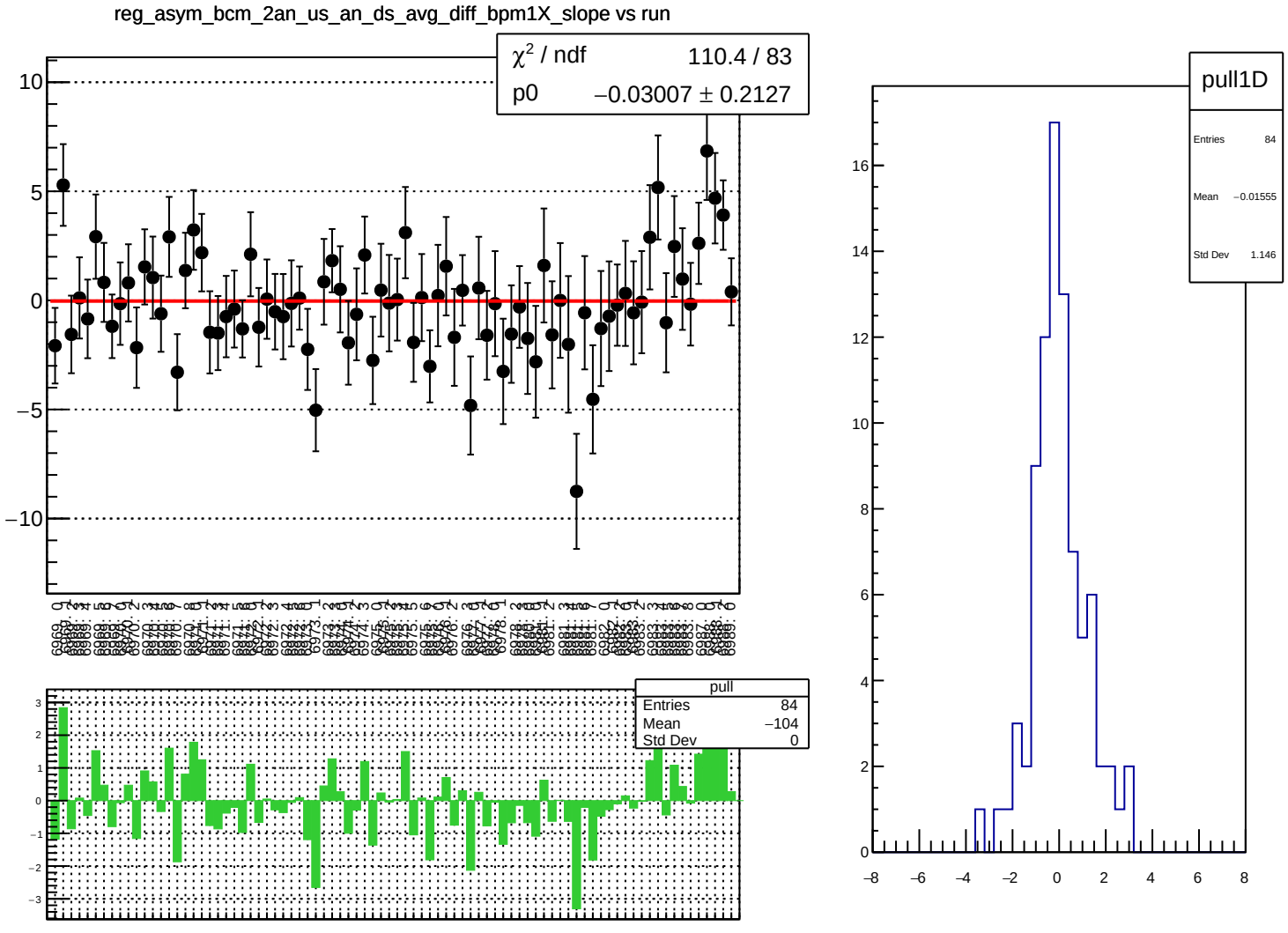

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 110 / 83
p0 −0.3092 ± 0.2005
pull
Entries 84
Mean −285.9
Std Dev 0

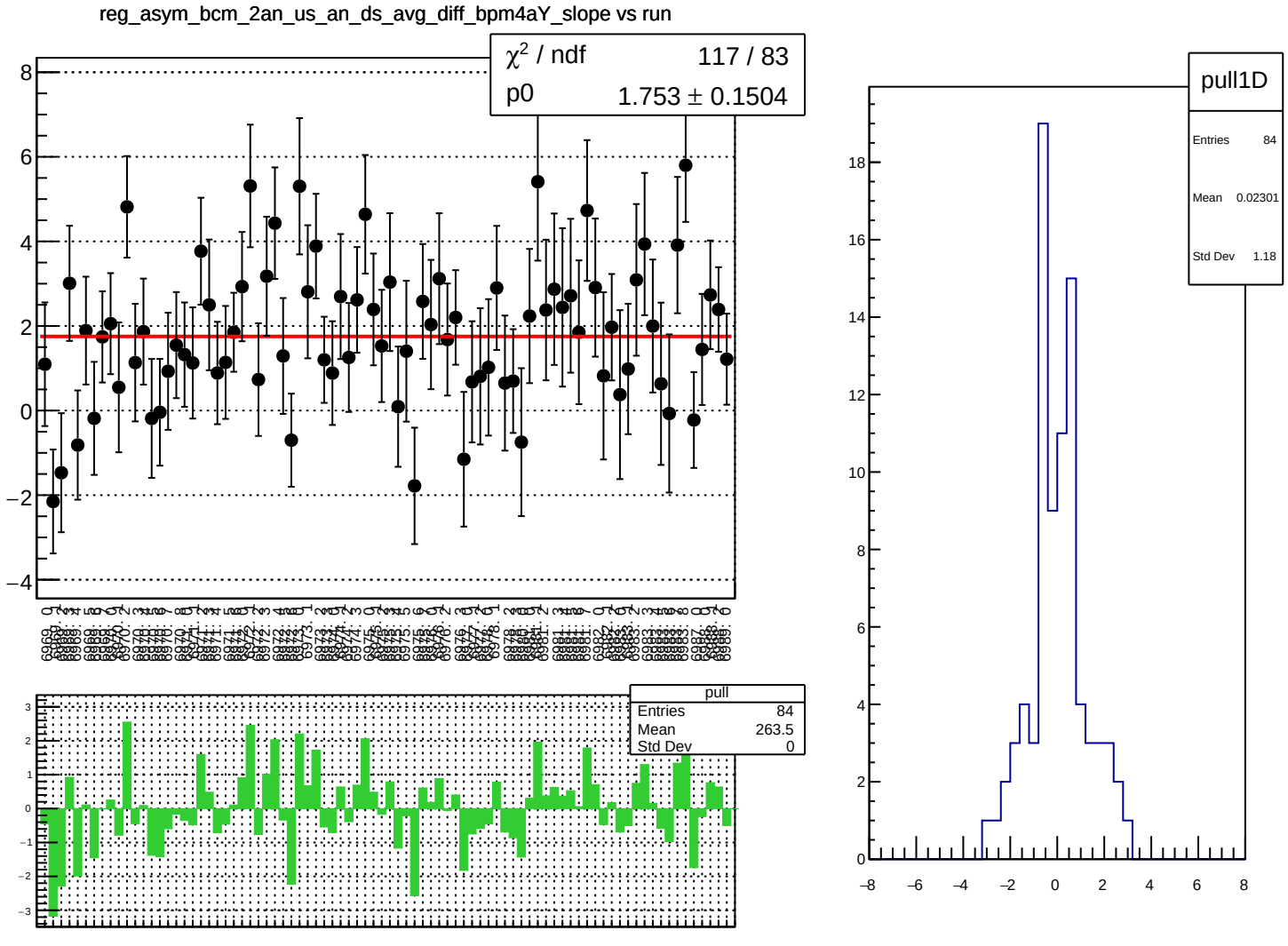

pull1D
Entries 84
Mean 0.008632
Std Dev 1.144

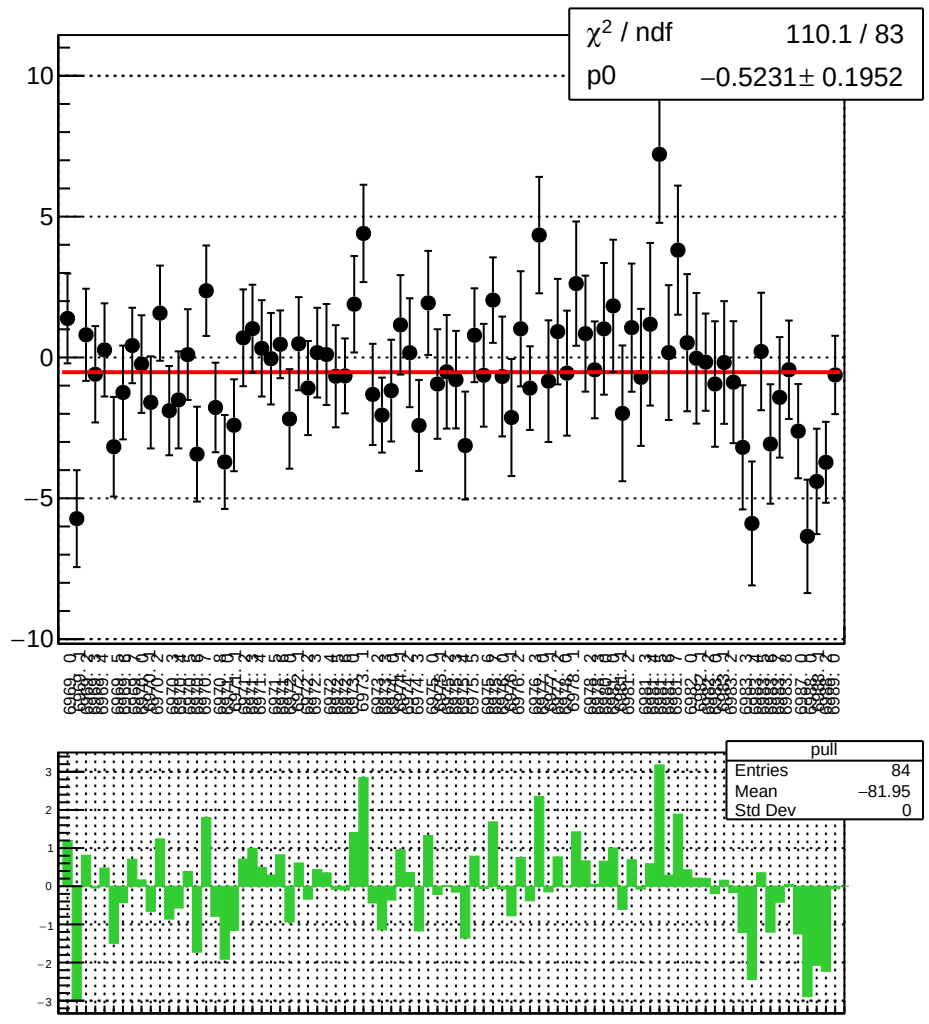

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 106.7 / 83
p0 −2.13 ± 0.1764
pull
Entries 84
Mean 209.9
Std Dev 0

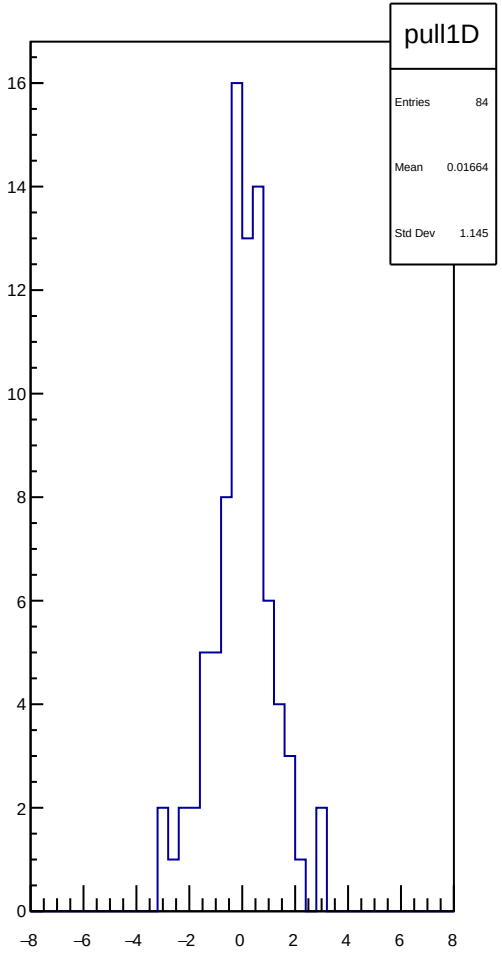

pull1D
Entries 84
Mean −0.02283
Std Dev 1.127

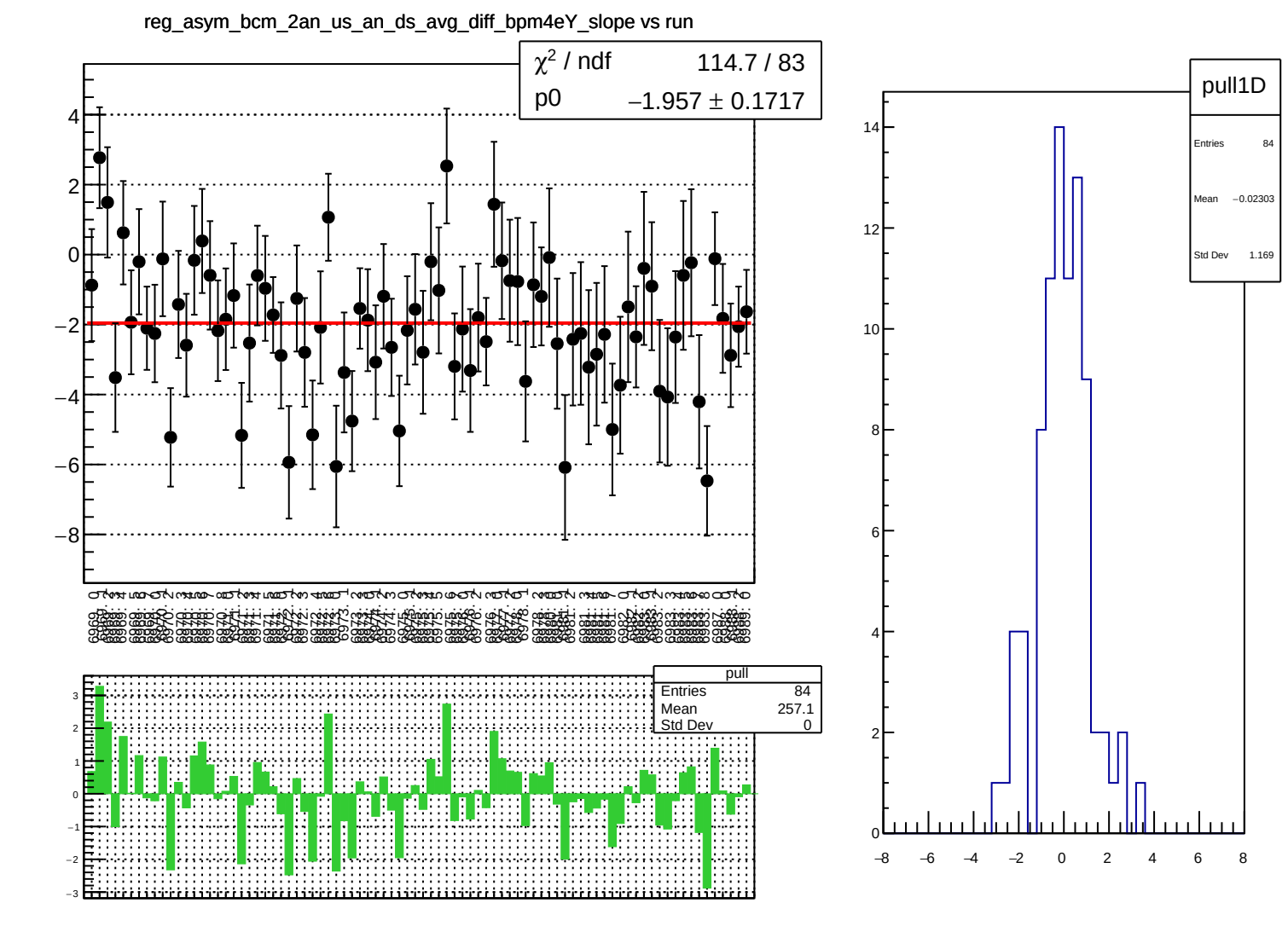

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 102.5 / 83
p0 −0.04607 ± 0.006544
pull
Entries 84
Mean 58.47
Std Dev 11.59
pull1D
Entries 84
Mean −0.03145
Std Dev 1.104

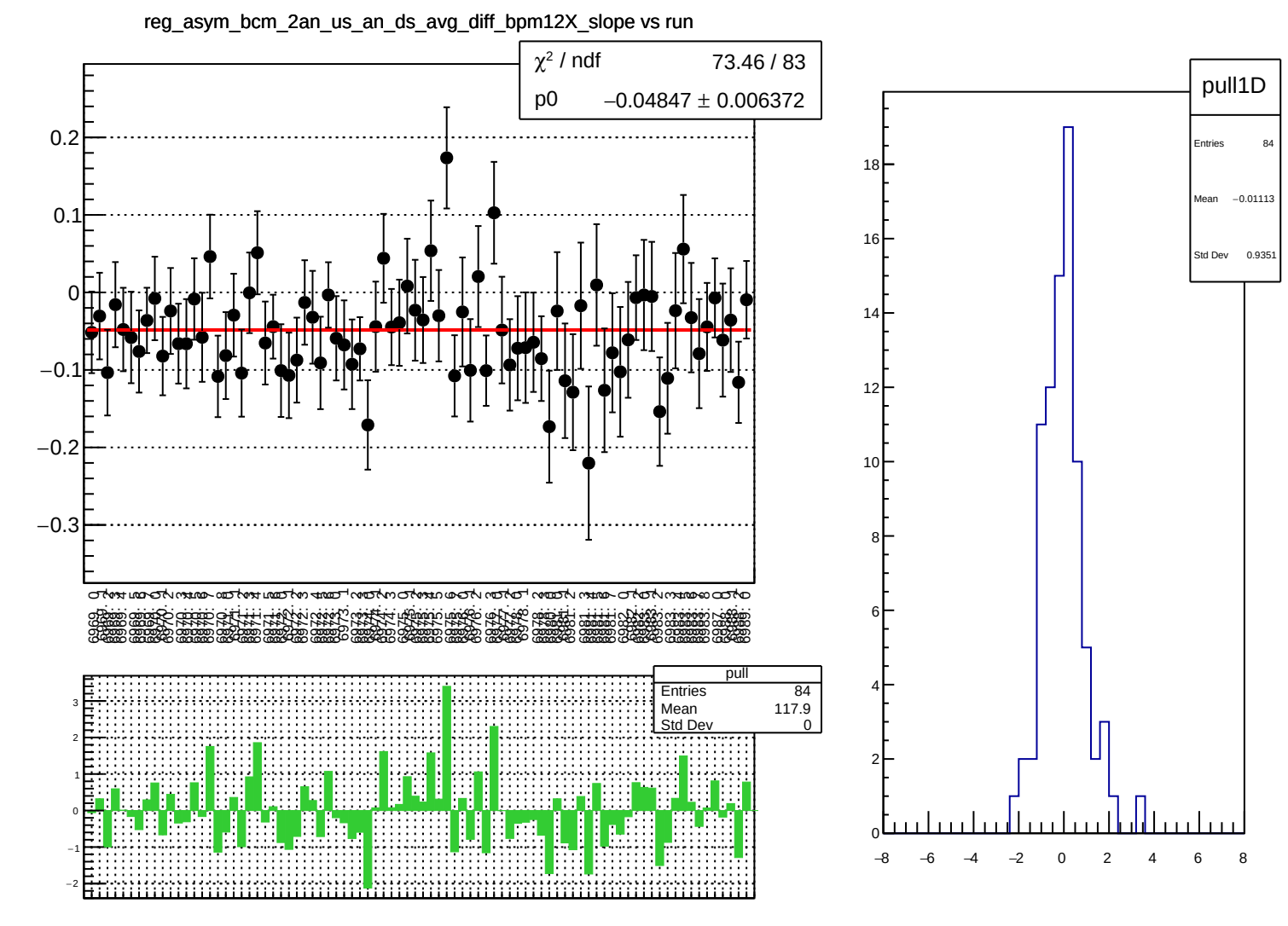

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 110.4 / 83
p0 −0.03007 ± 0.2127
pull
Entries 84
Mean −104
Std Dev 0
pull1D
Entries 84
Mean −0.01555
Std Dev 1.146

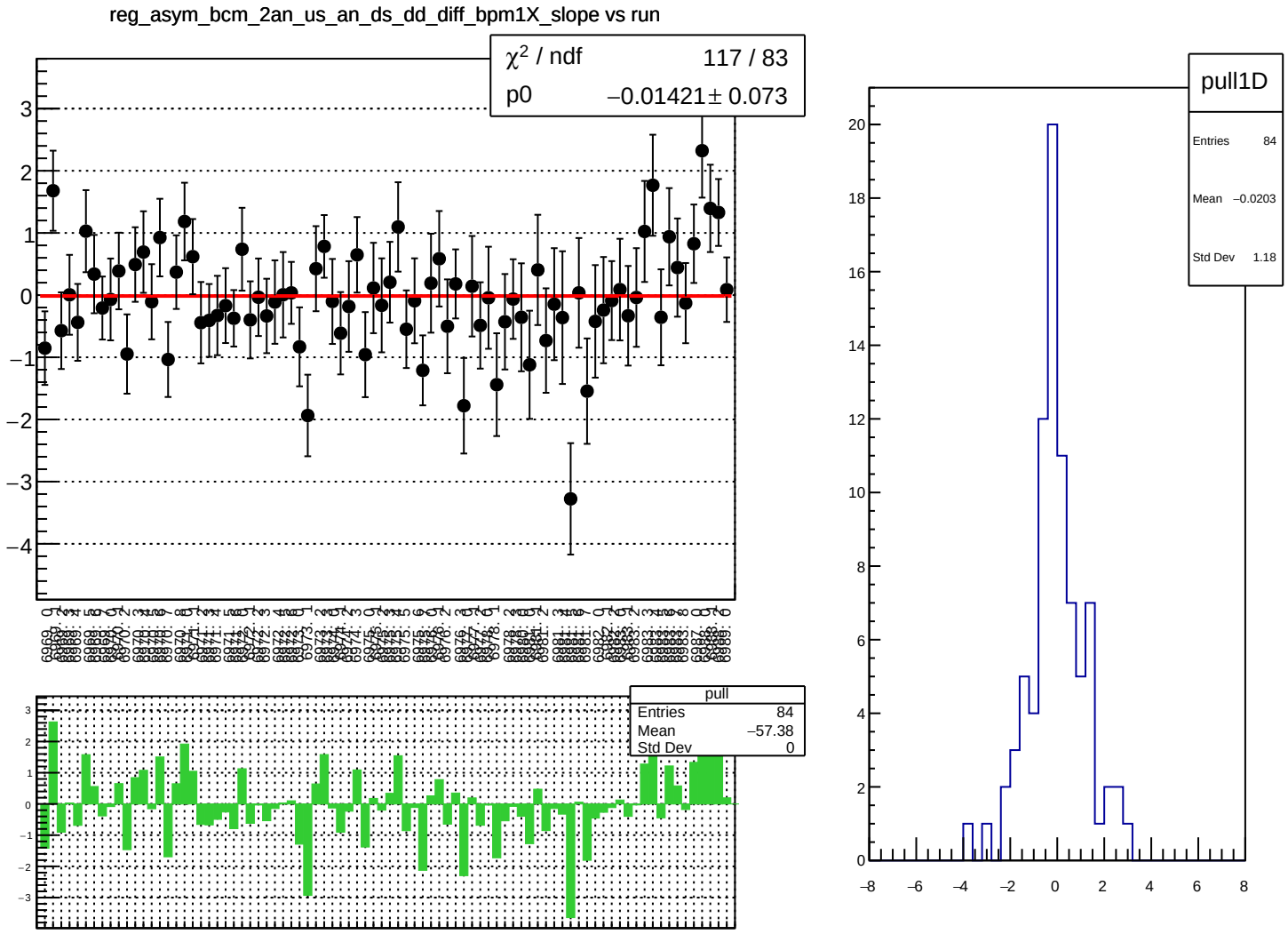

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 117 / 83
p0 1.753 ± 0.1504
pull
Entries 84
Mean 263.5
Std Dev 0
pull1D
Entries 84
Mean 0.02301
Std Dev 1.18

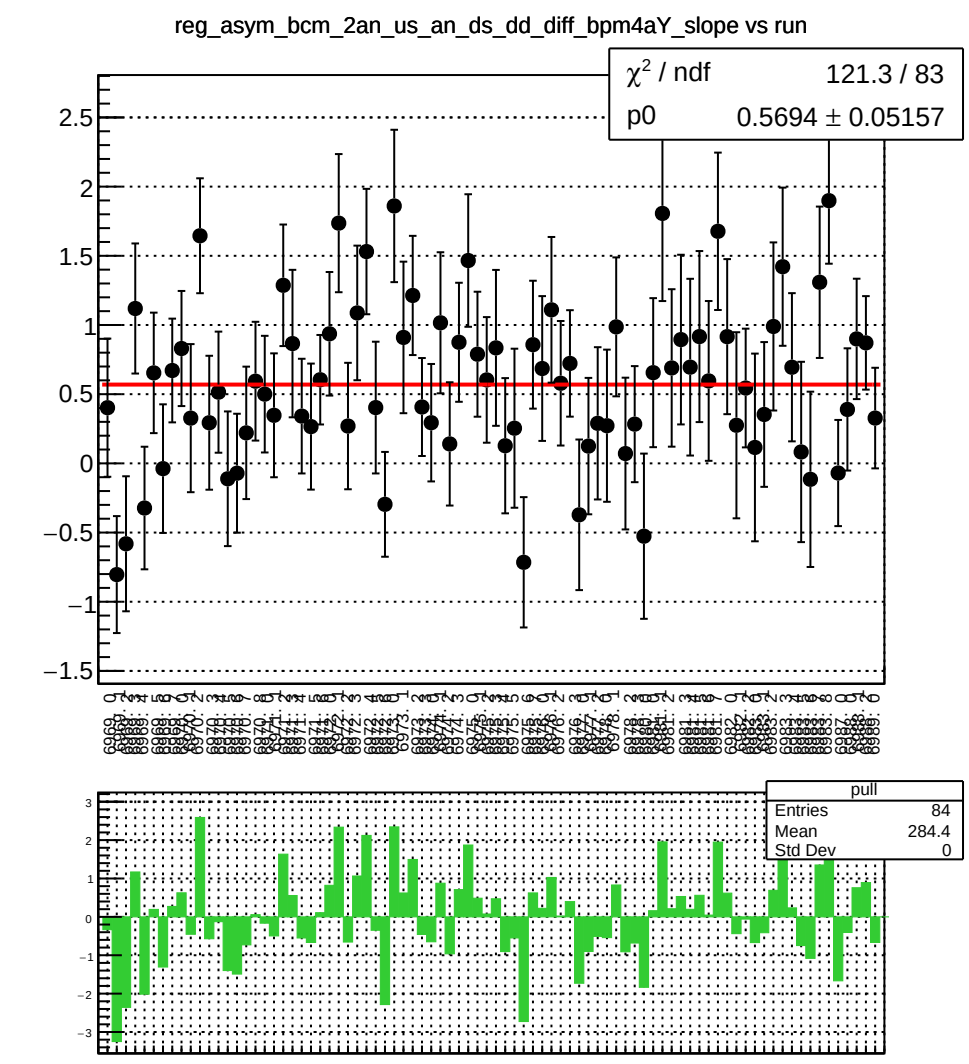

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 110.1 / 83
p0 −0.5231± 0.1952
pull
Entries 84
Mean −81.95
Std Dev 0

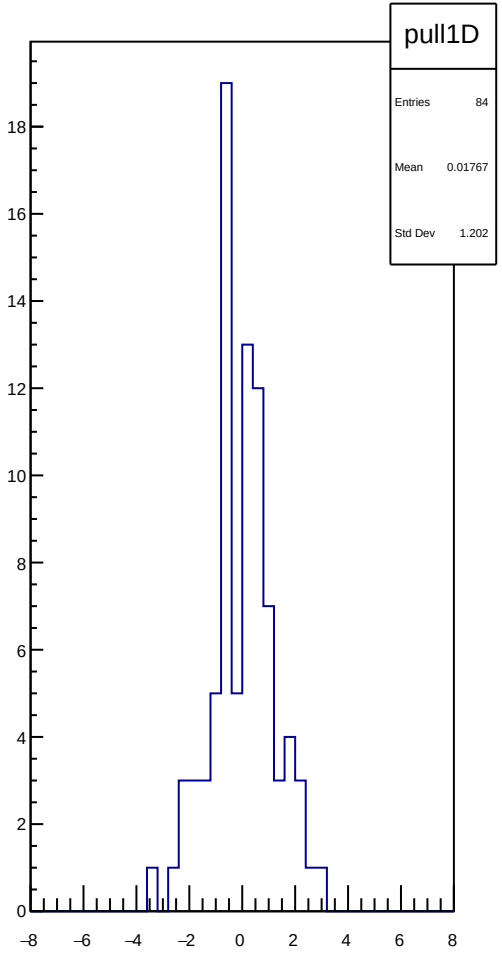

pull1D
Entries 84
Mean 0.01664
Std Dev 1.145

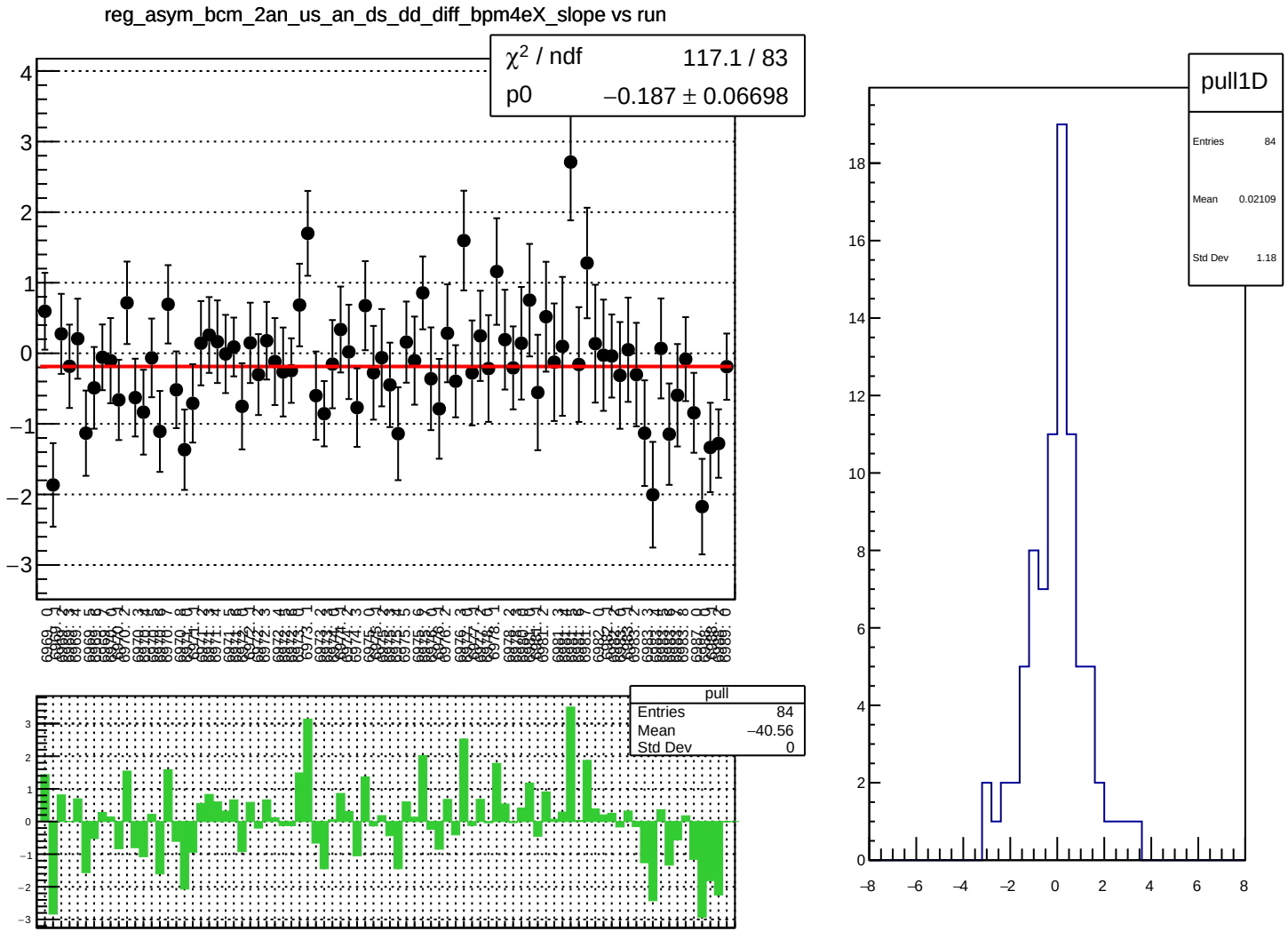

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 114.7 / 83
p0 −1.957 ± 0.1717
pull
Entries 84
Mean 257.1
Std Dev 0
pull1D
Entries 84
Mean −0.02303
Std Dev 1.169

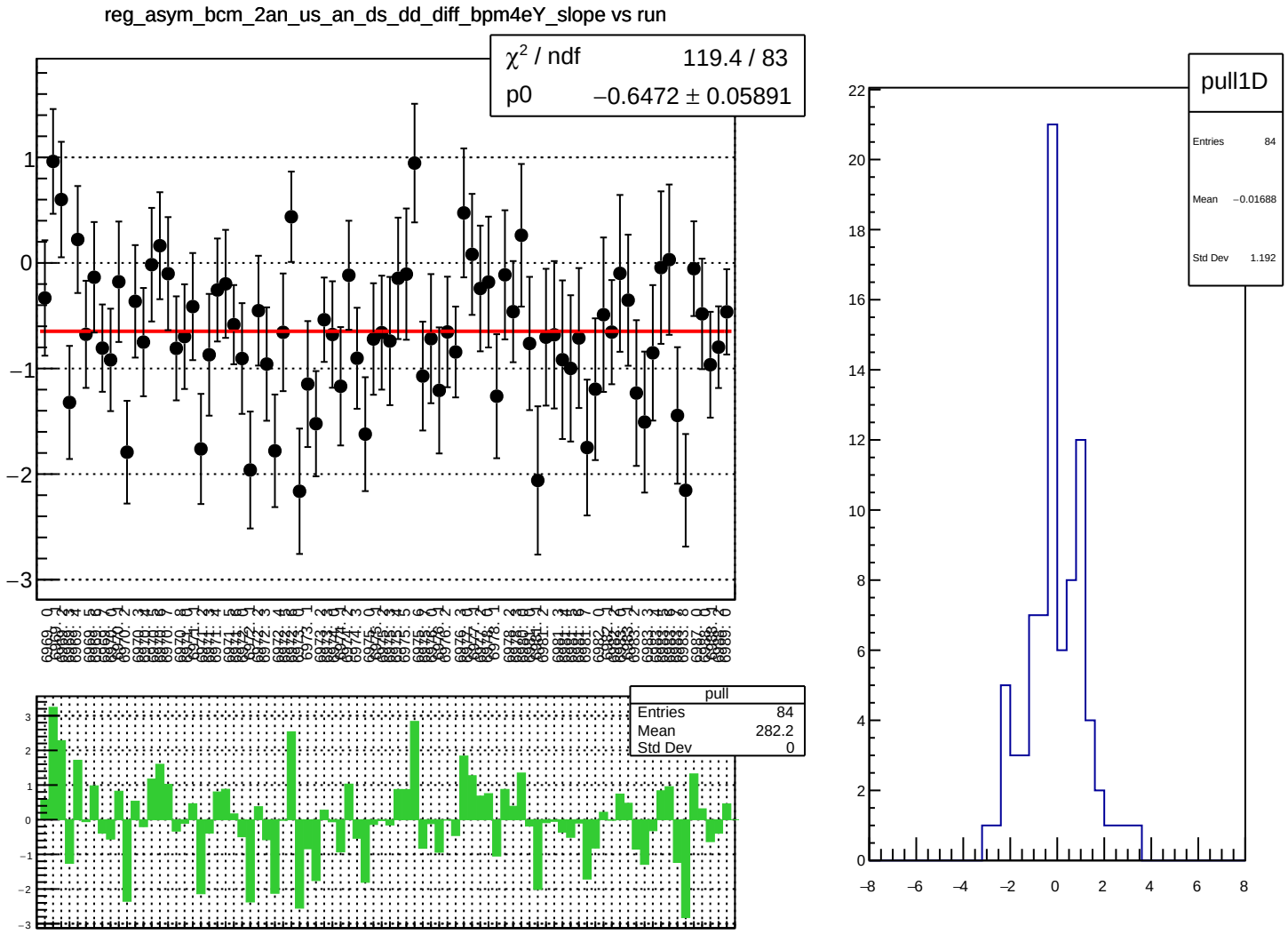

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 73.46 / 83
p0 −0.04847 ± 0.006372
pull
Entries 84
Mean 117.9
Std Dev 0
pull1D
Entries 84
Mean −0.01113
Std Dev 0.9351

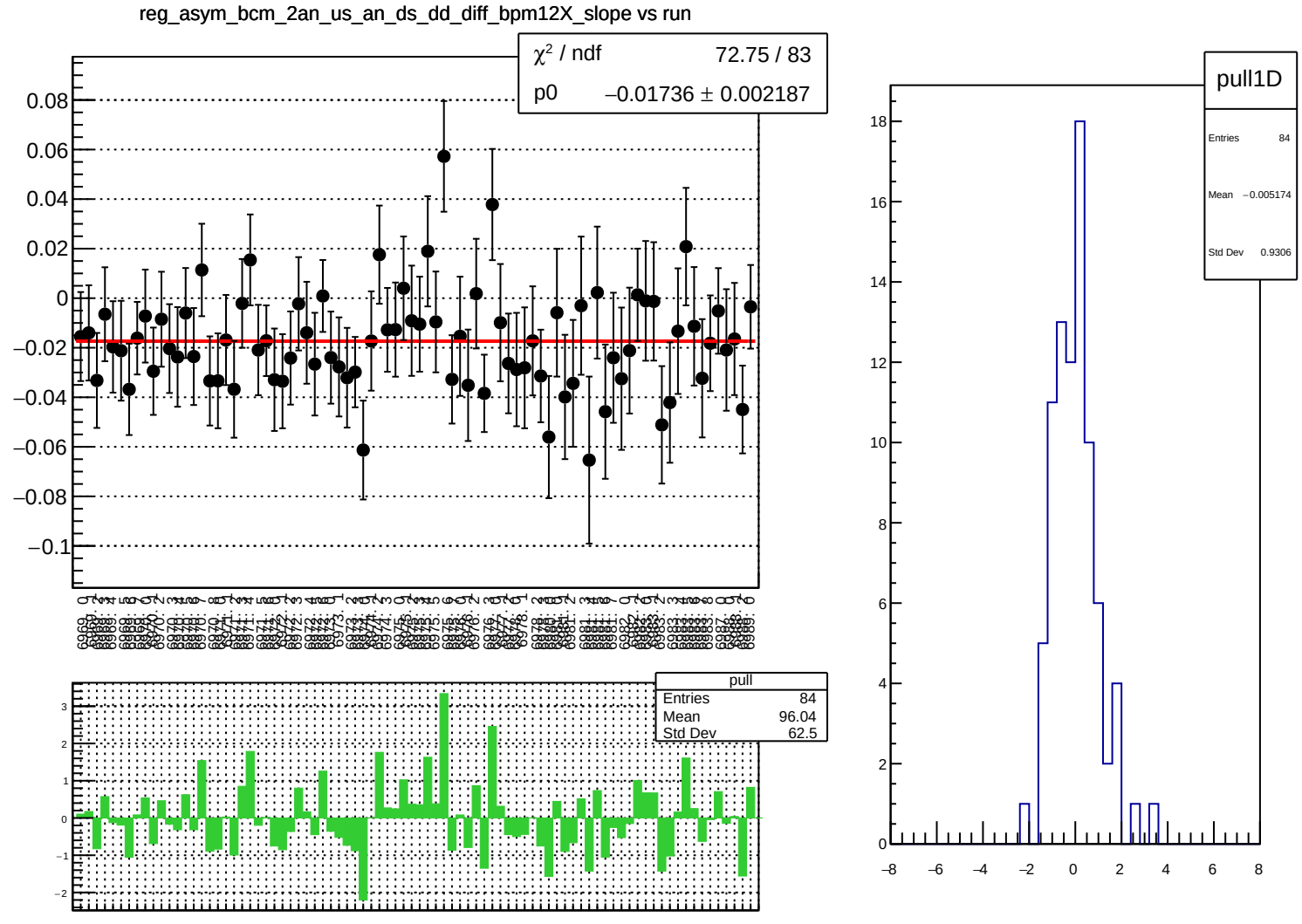

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 117 / 83
p0 −0.01421 ± 0.073
pull
Entries 84
Mean −57.38
Std Dev 0
pull1D
Entries 84
Mean −0.0203
Std Dev 1.18

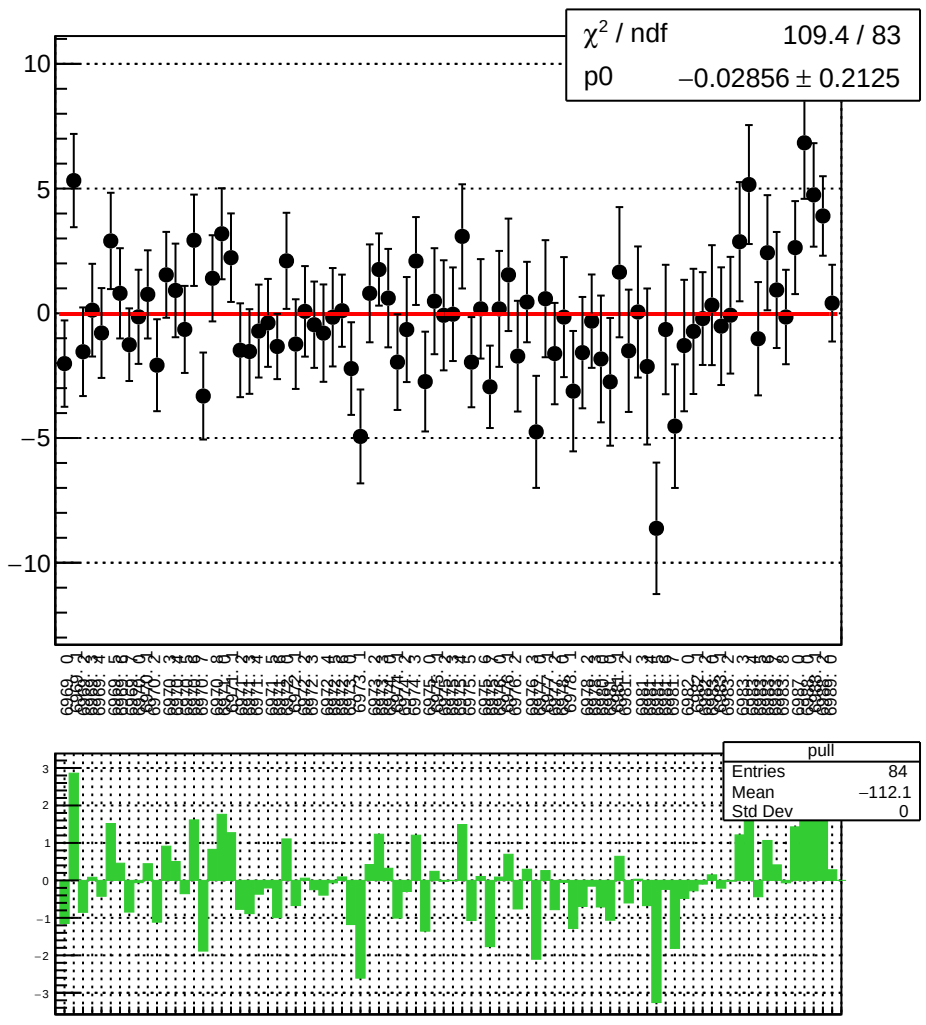

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 121.3 / 83
p0 0.5694 ± 0.05157
pull
Entries 84
Mean 284.4
Std Dev 0

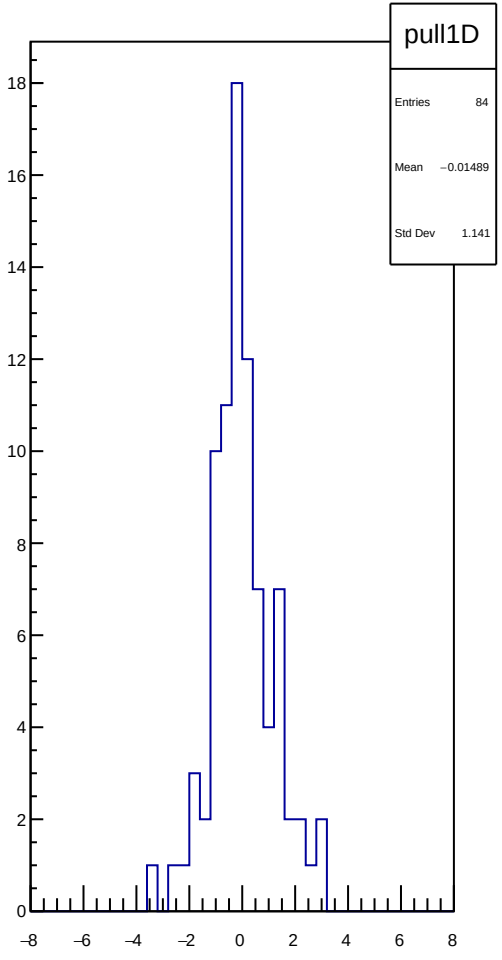

pull1D
Entries 84
Mean 0.01767
Std Dev 1.202

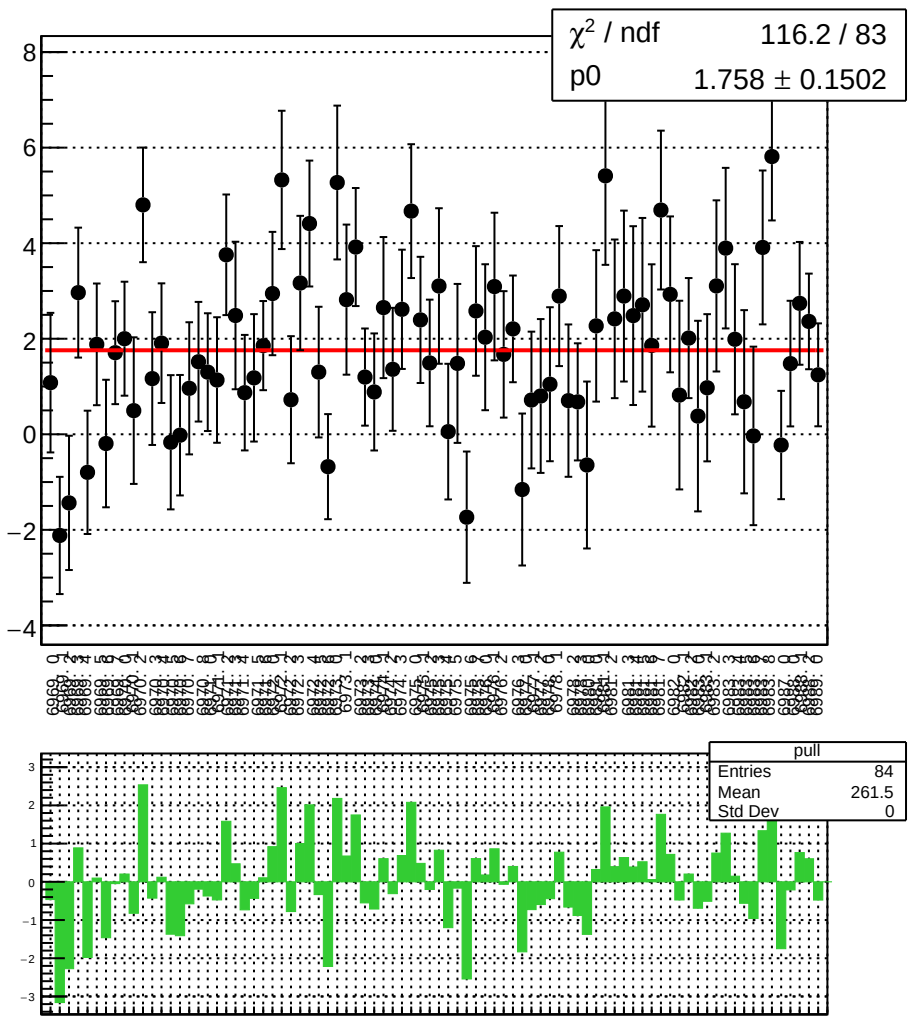

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 117.1 / 83
p0 −0.187 ± 0.06698
pull
Entries 84
Mean −40.56
Std Dev 0
pull1D
Entries 84
Mean 0.02109
Std Dev 1.18

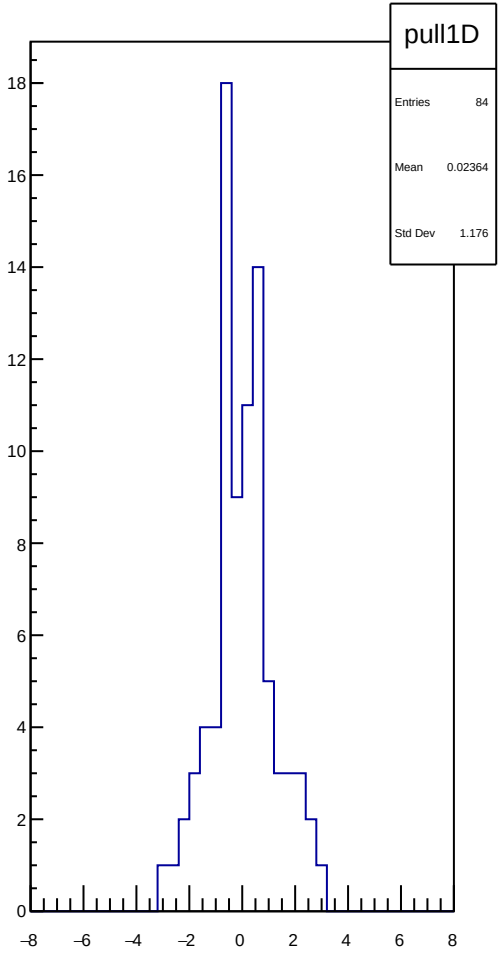

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 119.4 / 83
p0 −0.6472 ± 0.05891
pull
Entries 84
Mean 282.2
Std Dev 0
pull1D
Entries 84
Mean −0.01688
Std Dev 1.192

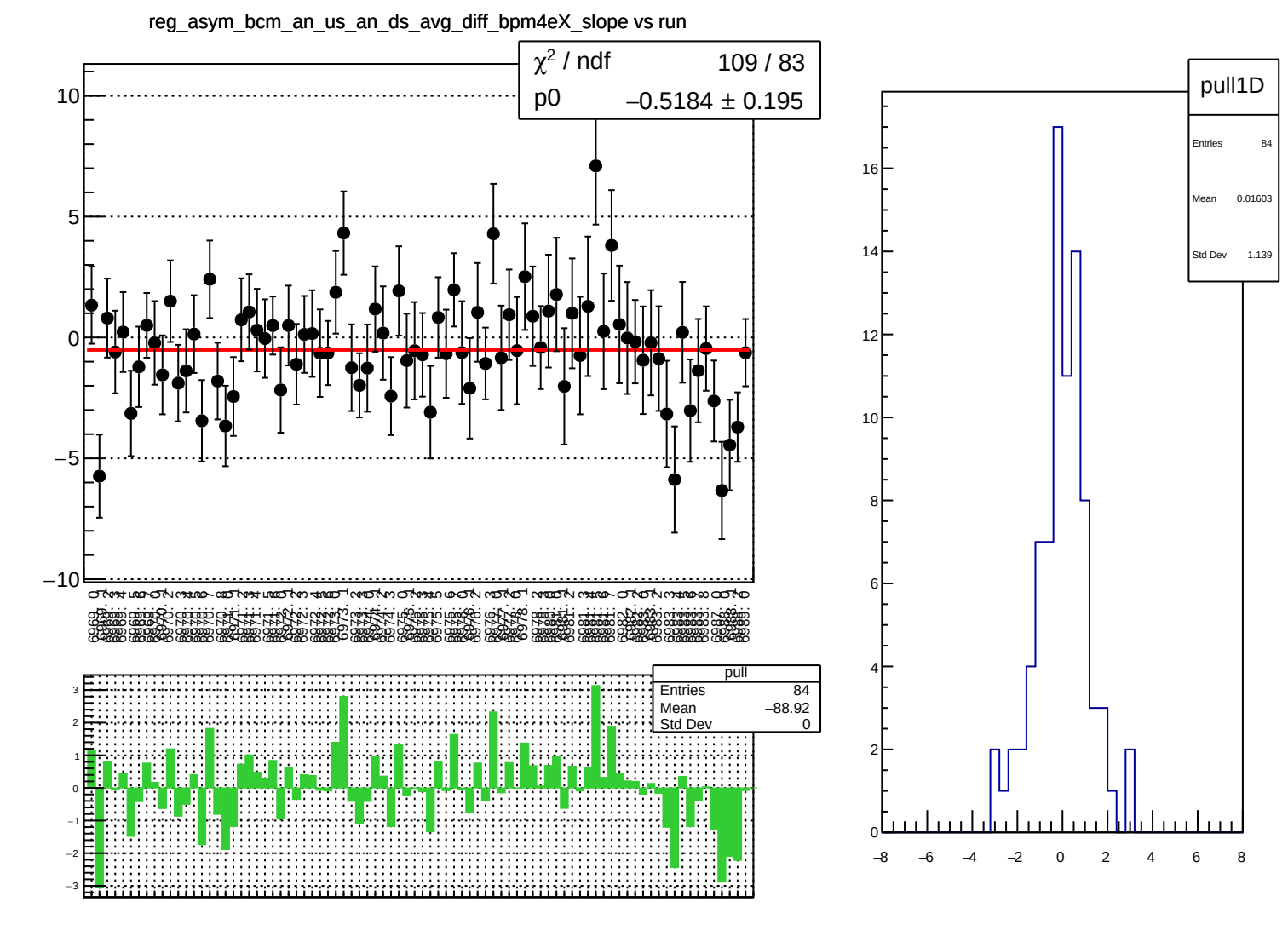

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 72.75 / 83
p0 −0.01736 ± 0.002187
pull
Entries 84
Mean 96.04
Std Dev 62.5
pull1D
Entries 84
Mean −0.005174
Std Dev 0.9306

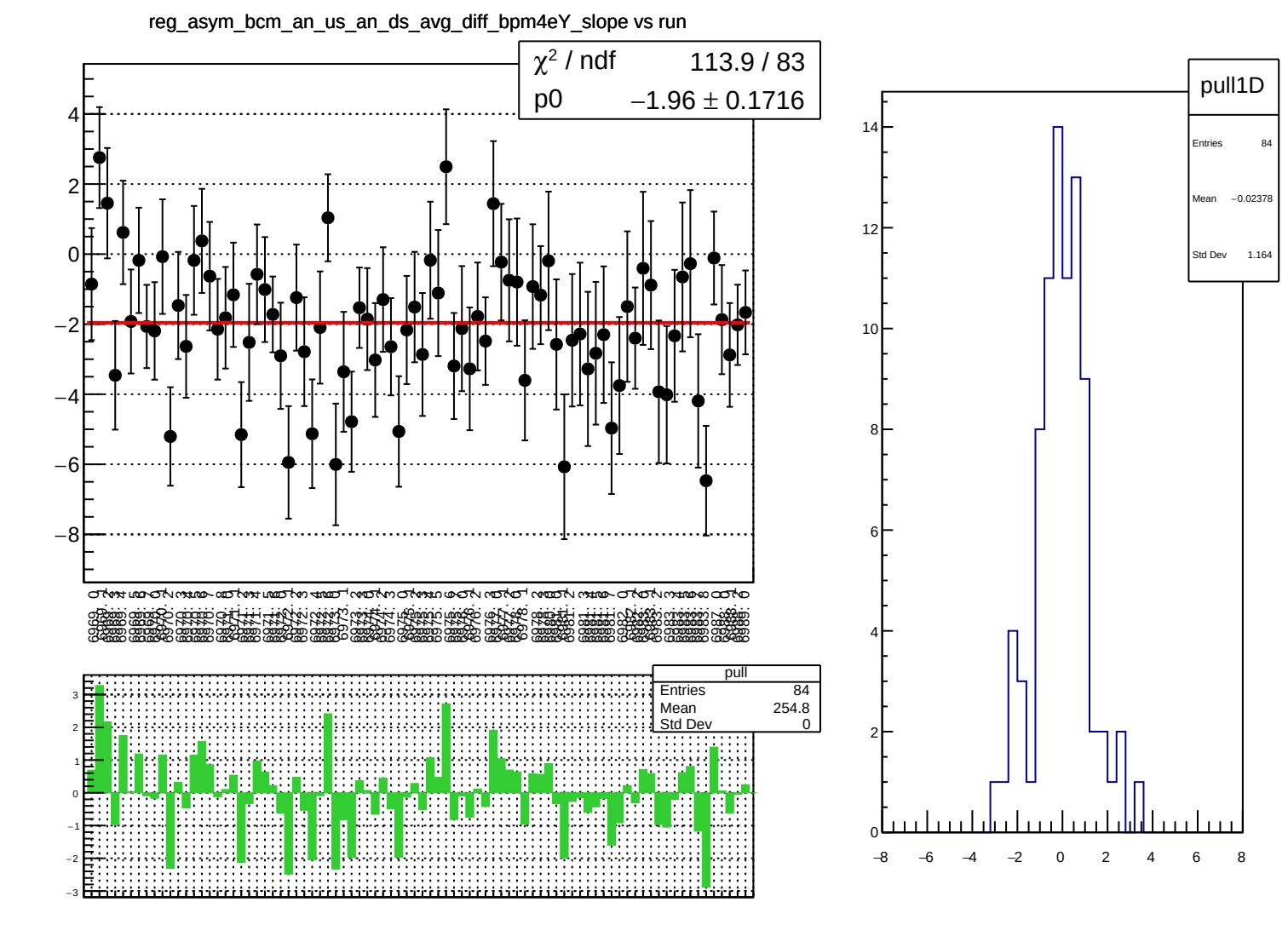

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 109.4 / 83
p0 −0.02856 ± 0.2125
pull
Entries 84
Mean −112.1
Std Dev 0

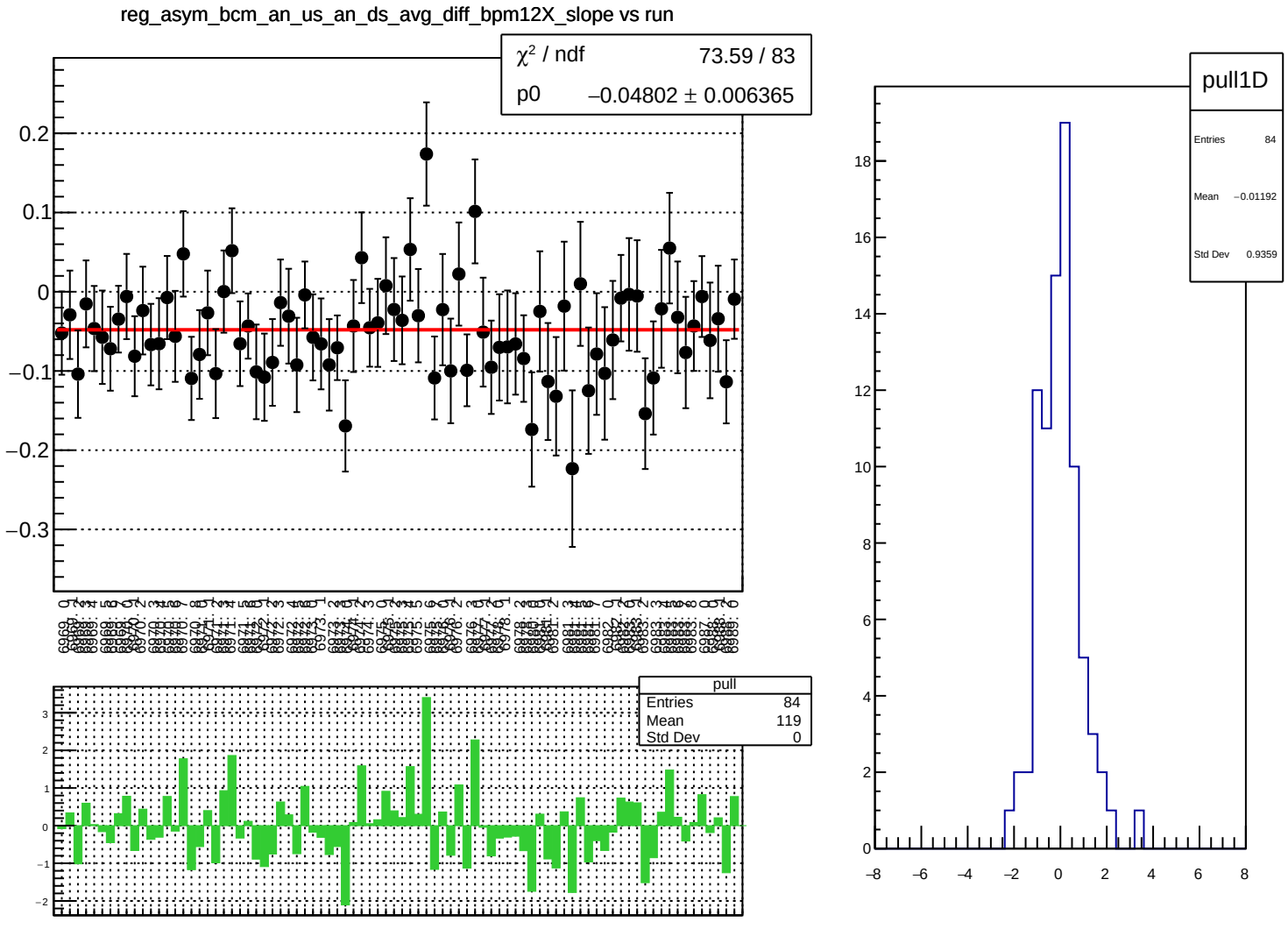

pull1D
Entries 84
Mean −0.01489
Std Dev 1.141

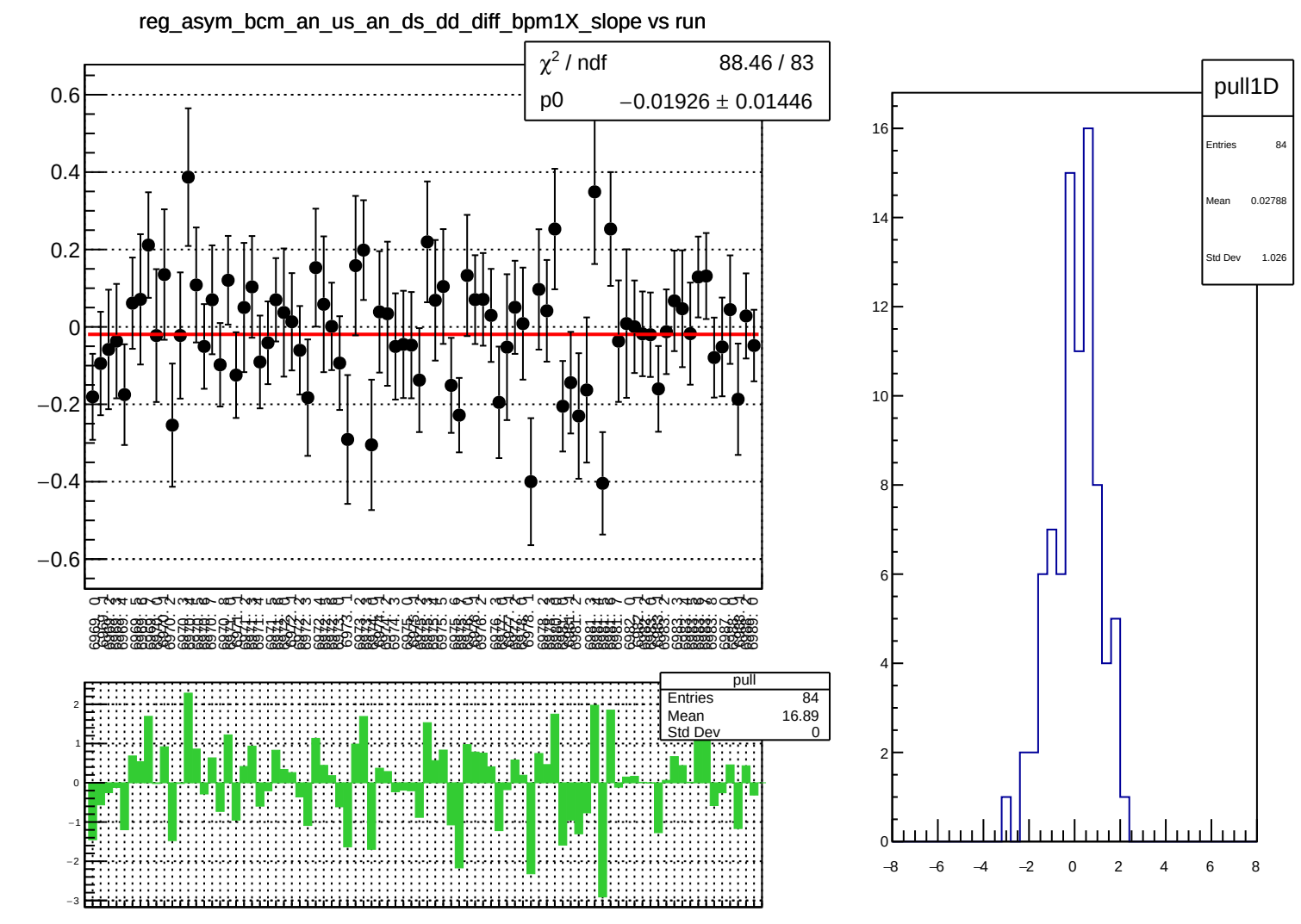

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 116.2 / 83
p0 1.758 ± 0.1502
pull
Entries 84
Mean 261.5
Std Dev 0

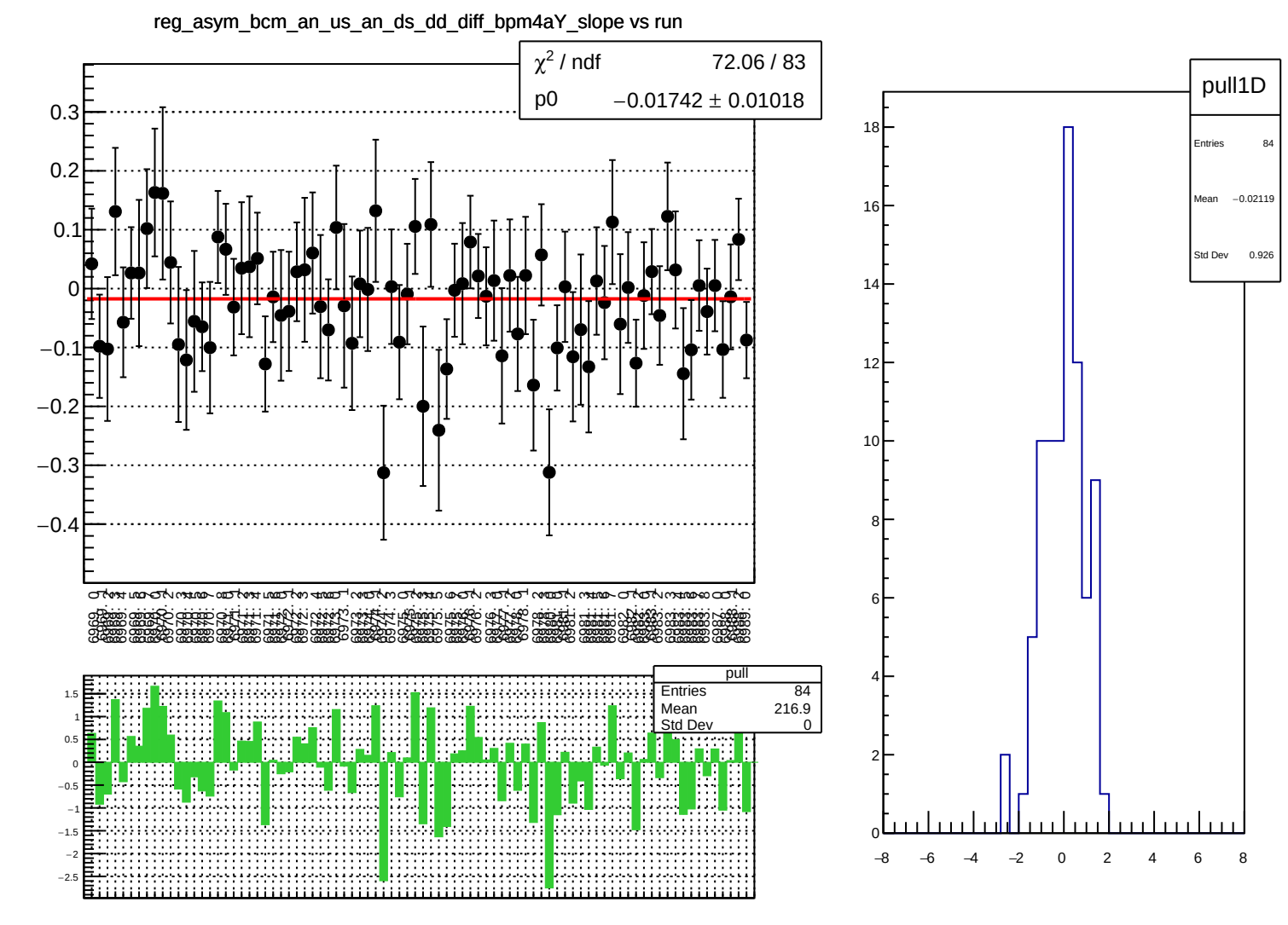

pull1D
Entries 84
Mean 0.02364
Std Dev 1.176

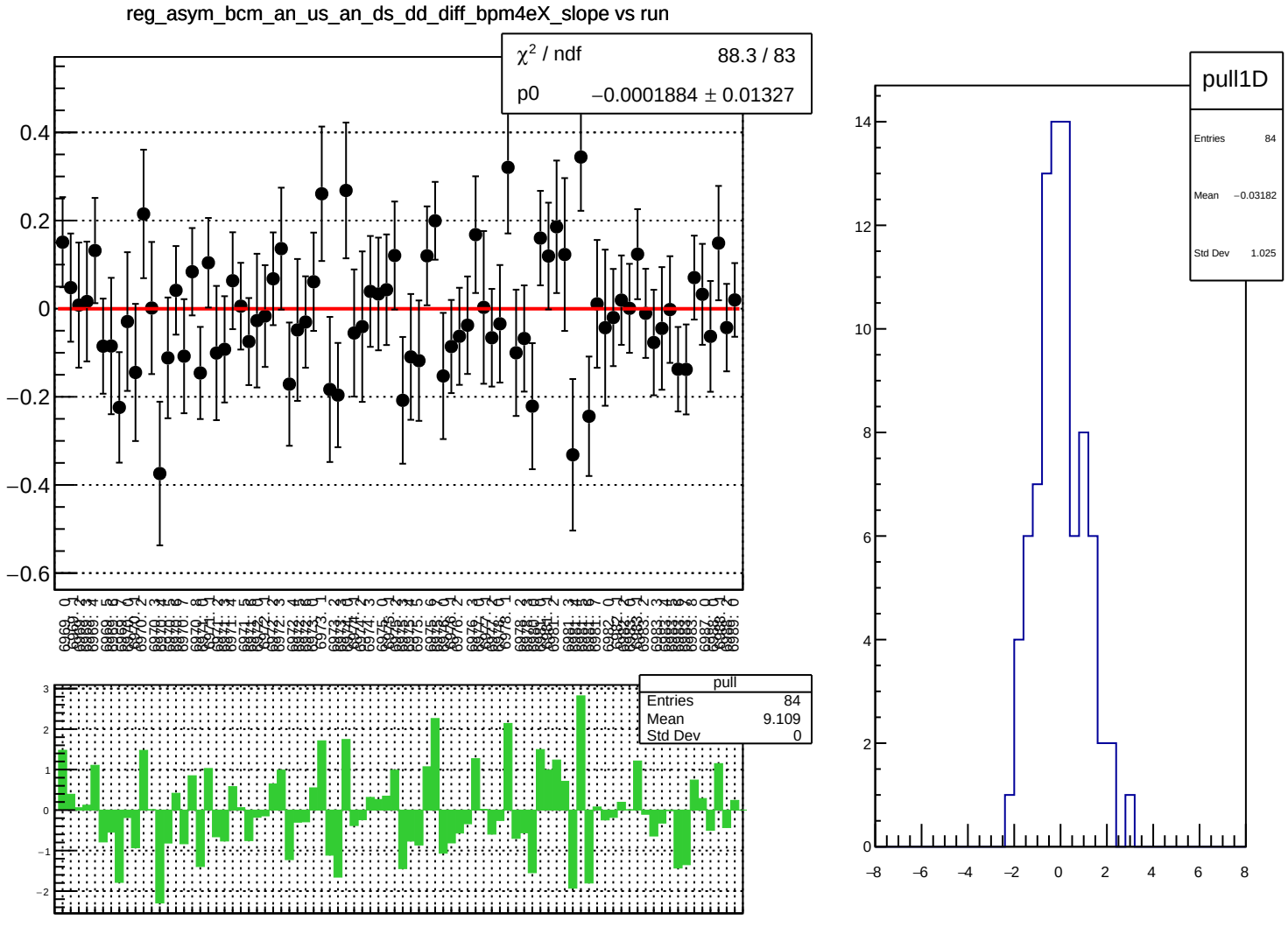

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 109 / 83
p0 −0.5184 ± 0.195
pull
Entries 84
Mean −88.92
Std Dev 0
pull1D
Entries 84
Mean 0.01603
Std Dev 1.139

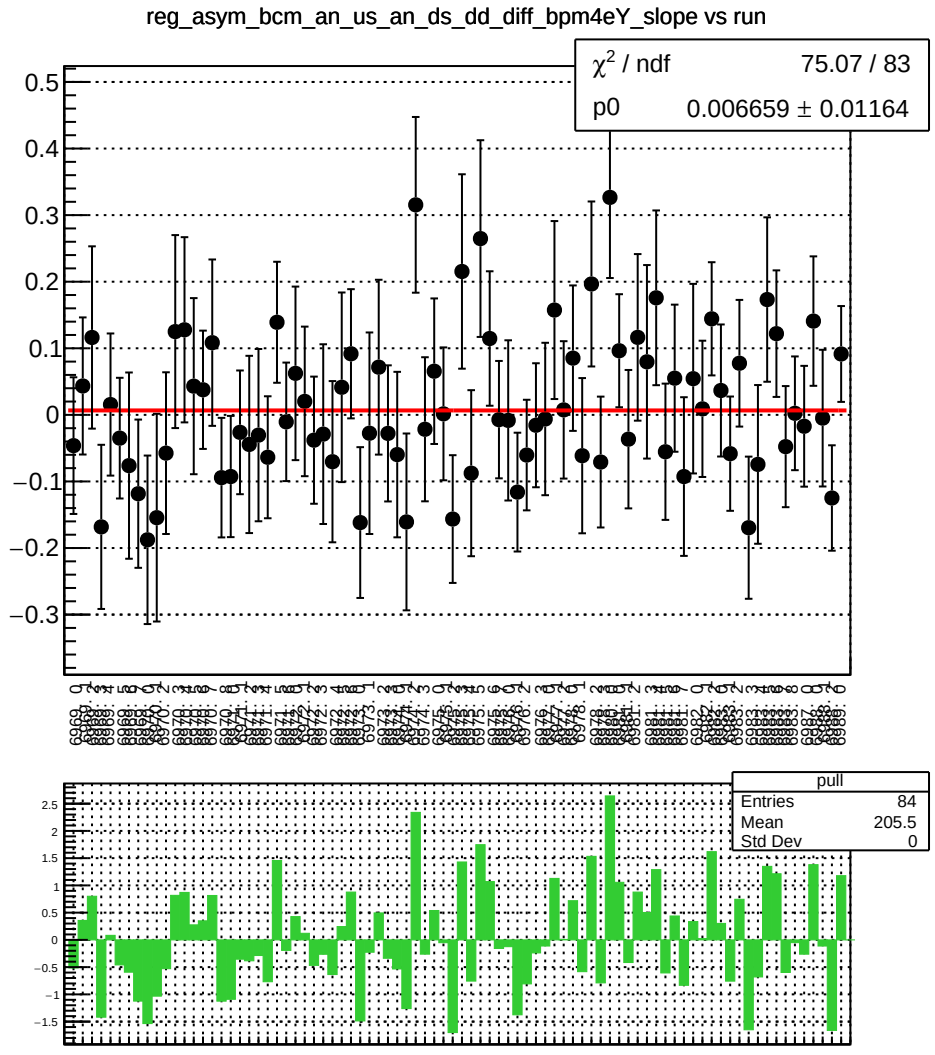

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 113.9 / 83
p0 −1.96 ± 0.1716
pull
Entries 84
Mean 254.8
Std Dev 0
pull1D
Entries 84
Mean −0.02378
Std Dev 1.164

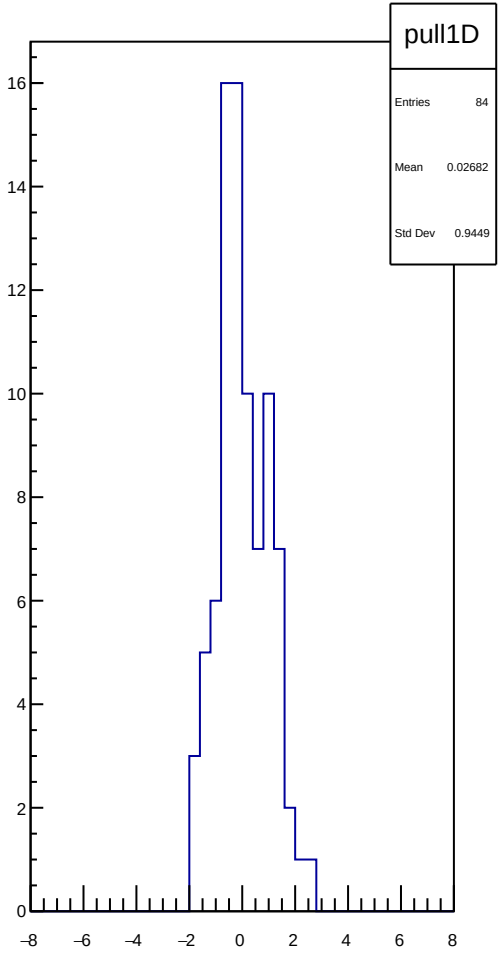

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 73.59 / 83
p0 −0.04802 ± 0.006365
pull
Entries 84
Mean 119
Std Dev 0
pull1D
Entries 84
Mean −0.01192
Std Dev 0.9359

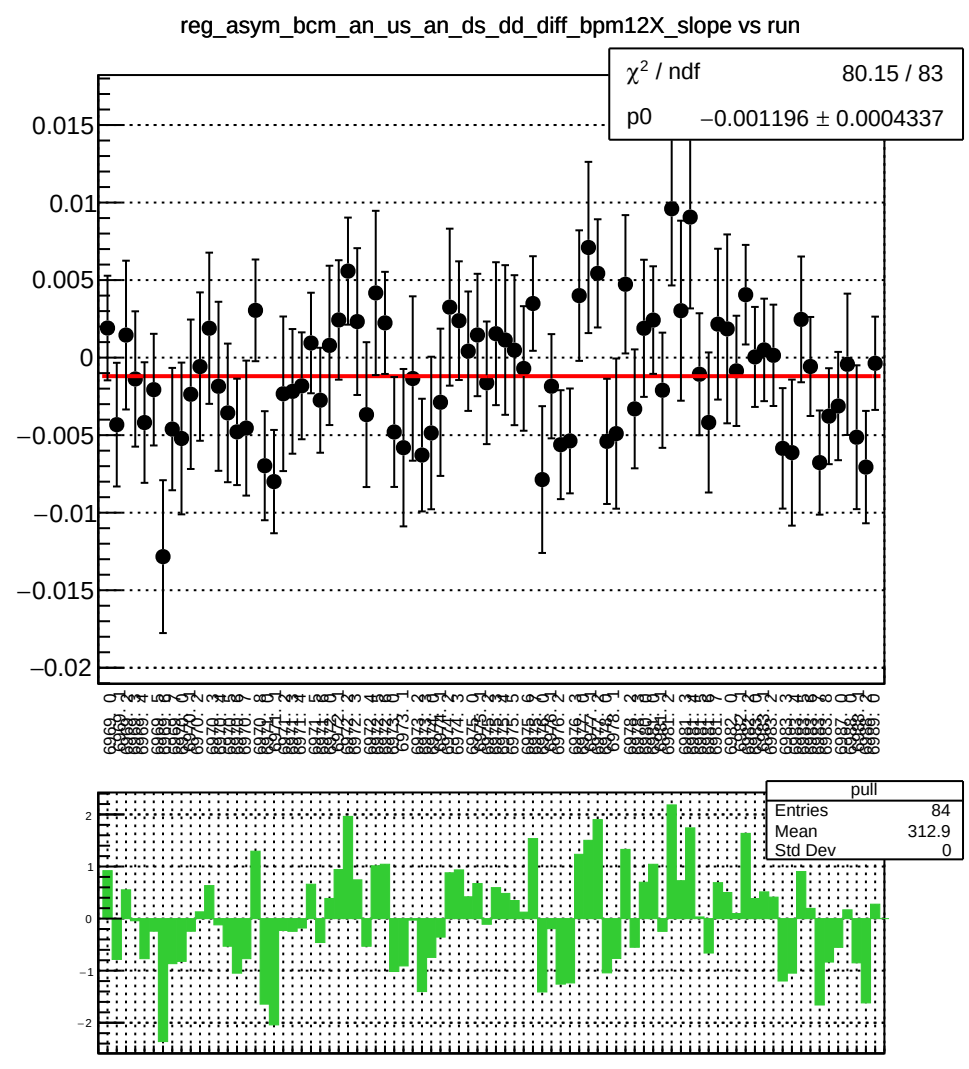

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 88.46 / 83
p0 −0.01926 ± 0.01446
pull
Entries 84
Mean 16.89
Std Dev 0
pull1D
Entries 84
Mean 0.02788
Std Dev 1.026

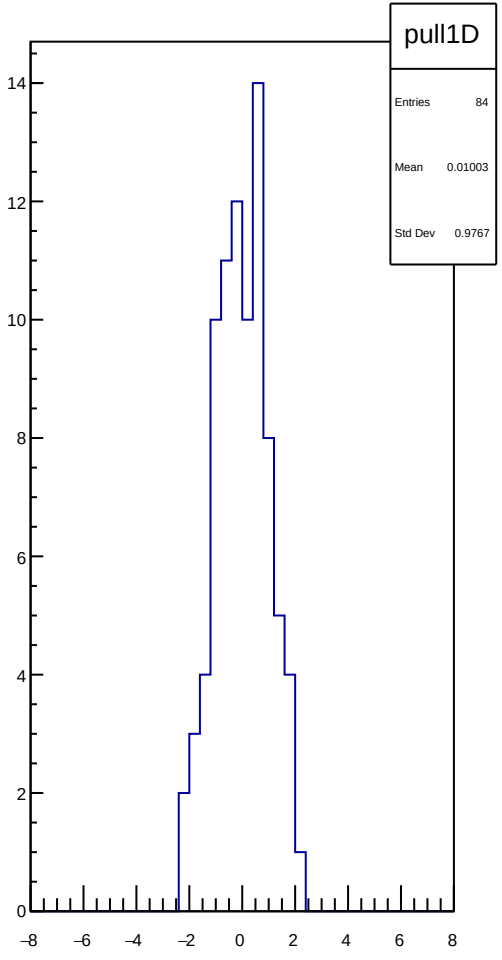

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.06 / 83
p0 −0.01742 ± 0.01018
pull
Entries 84
Mean 216.9
Std Dev 0
pull1D
Entries 84
Mean −0.02119
Std Dev 0.926

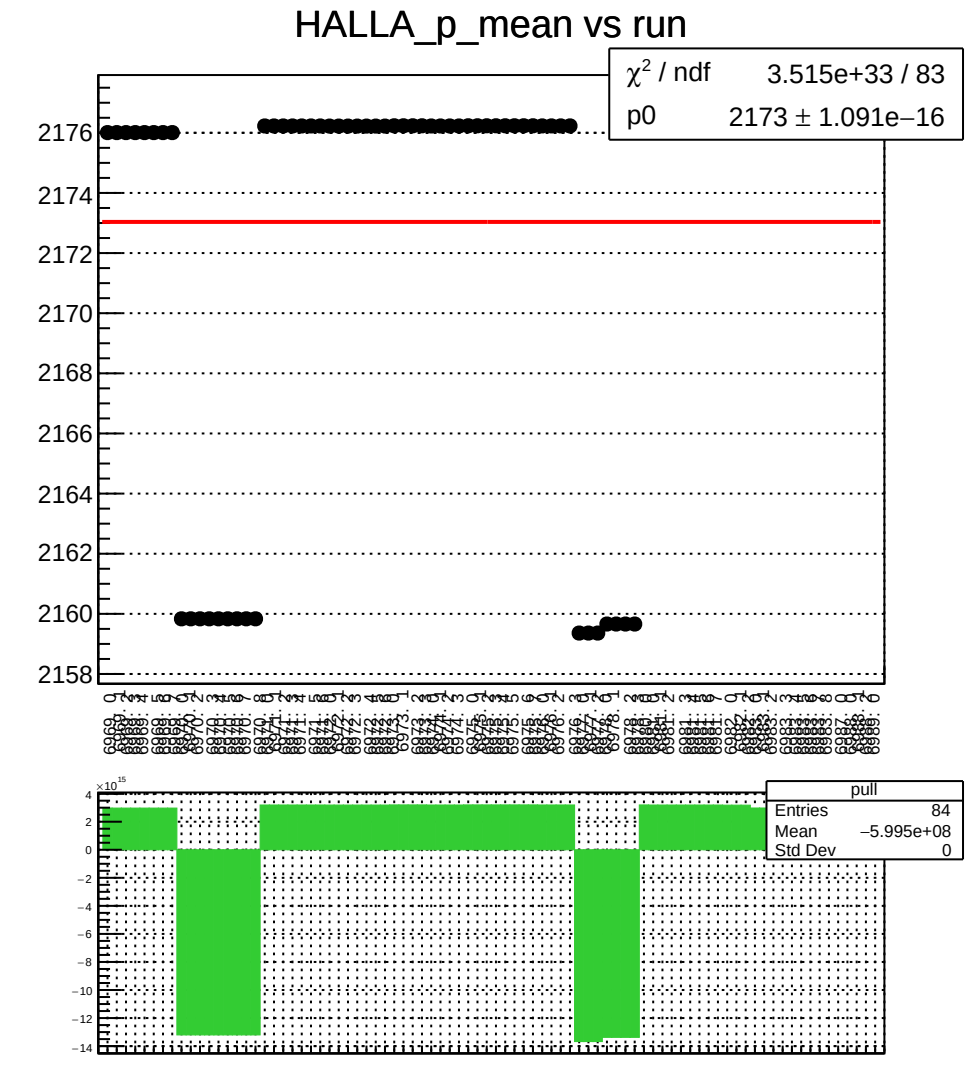

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.3 / 83
p0 −0.0001884 ± 0.01327
pull
Entries 84
Mean 9.109
Std Dev 0
pull1D
Entries 84
Mean −0.03182
Std Dev 1.025

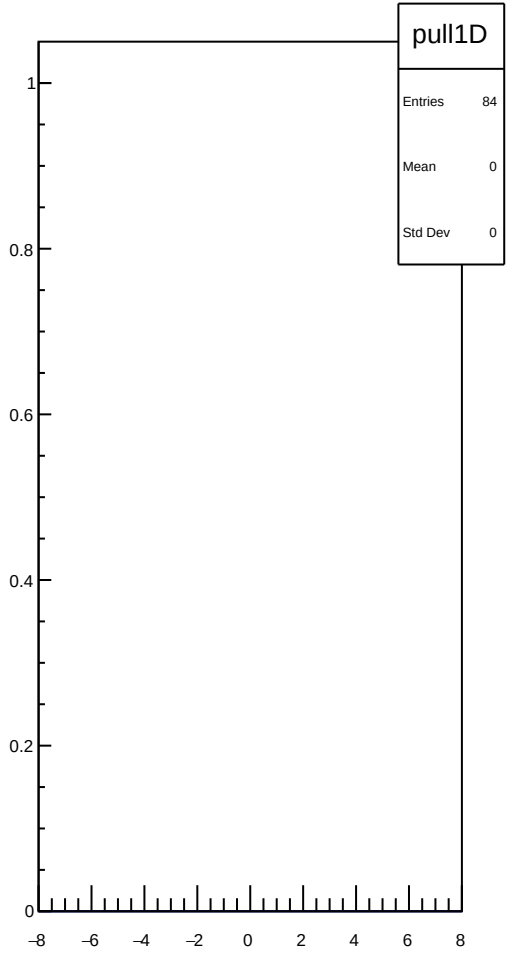

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 75.07 / 83
p0 0.006659 ± 0.01164
pull
Entries 84
Mean 205.5
Std Dev 0

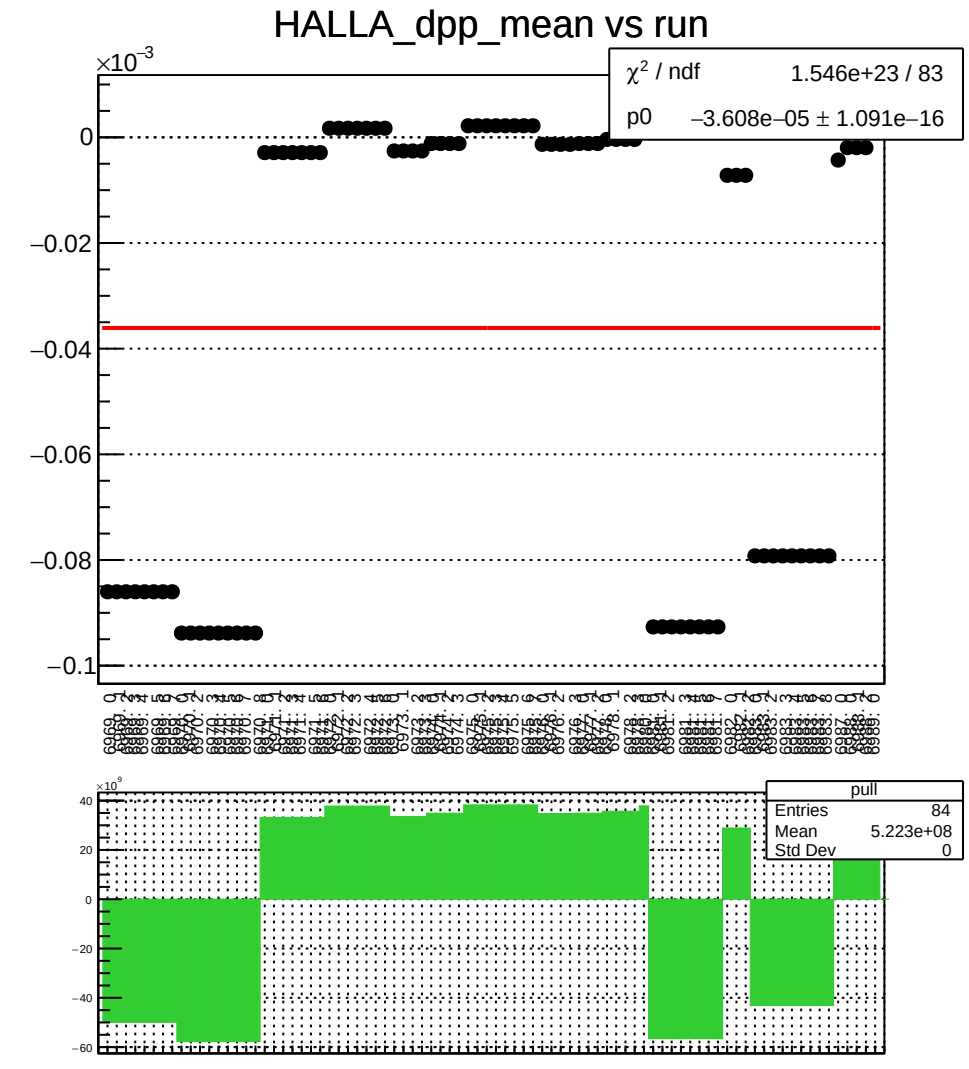

pull1D
Entries 84
Mean 0.02682
Std Dev 0.9449

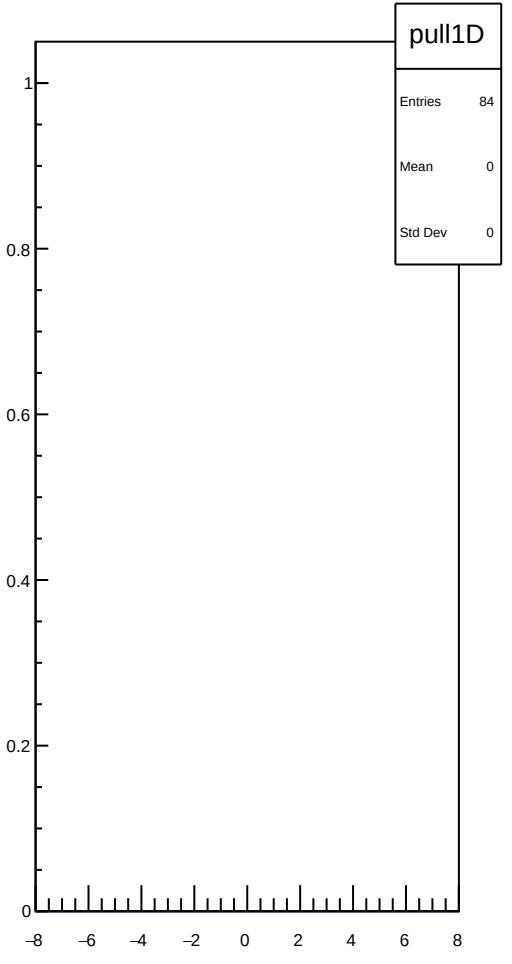

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 80.15 / 83
p0 −0.001196 ± 0.0004337
pull
Entries 84
Mean 312.9
Std Dev 0

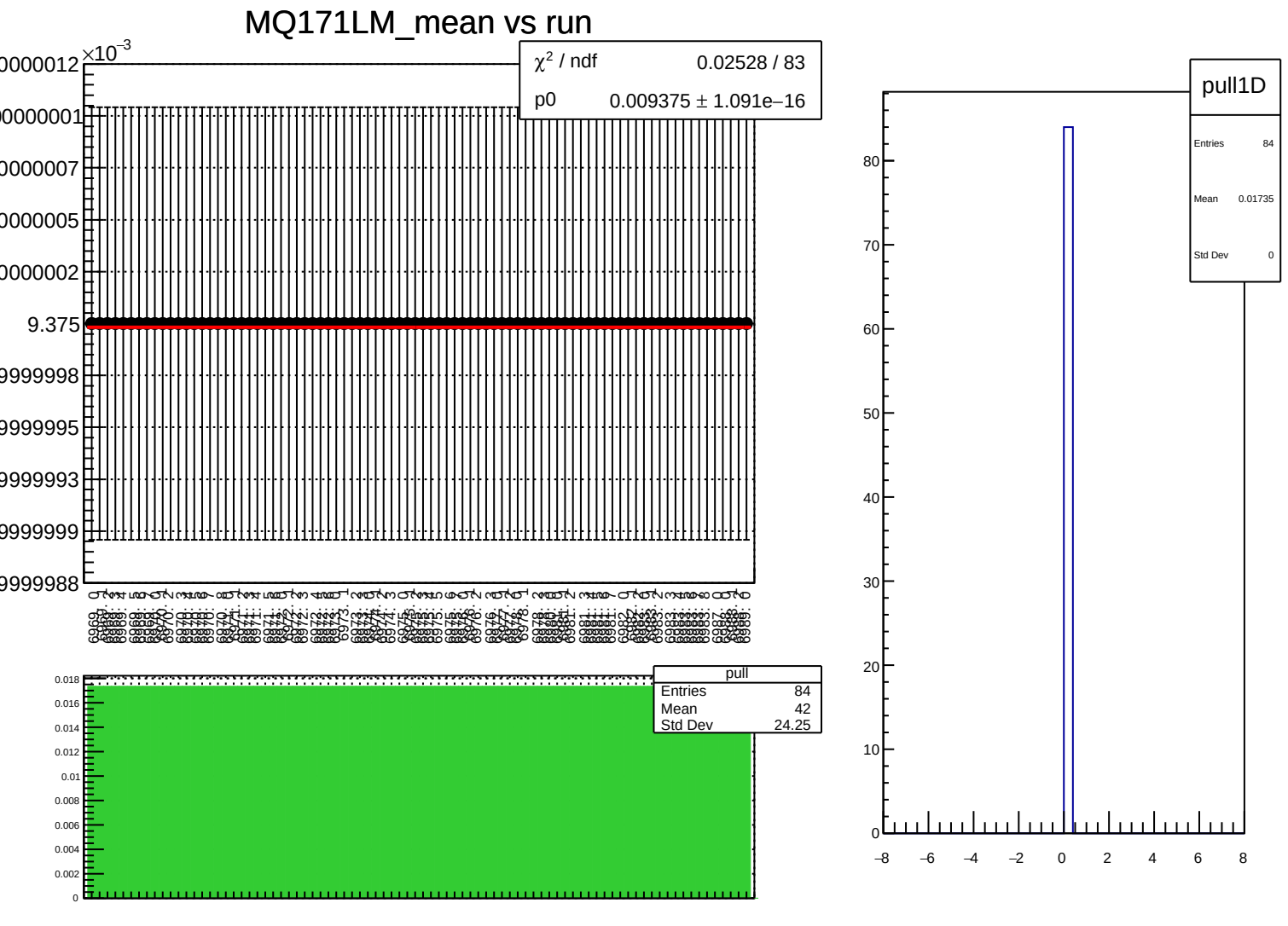

pull1D
Entries 84
Mean 0.01003
Std Dev 0.9767

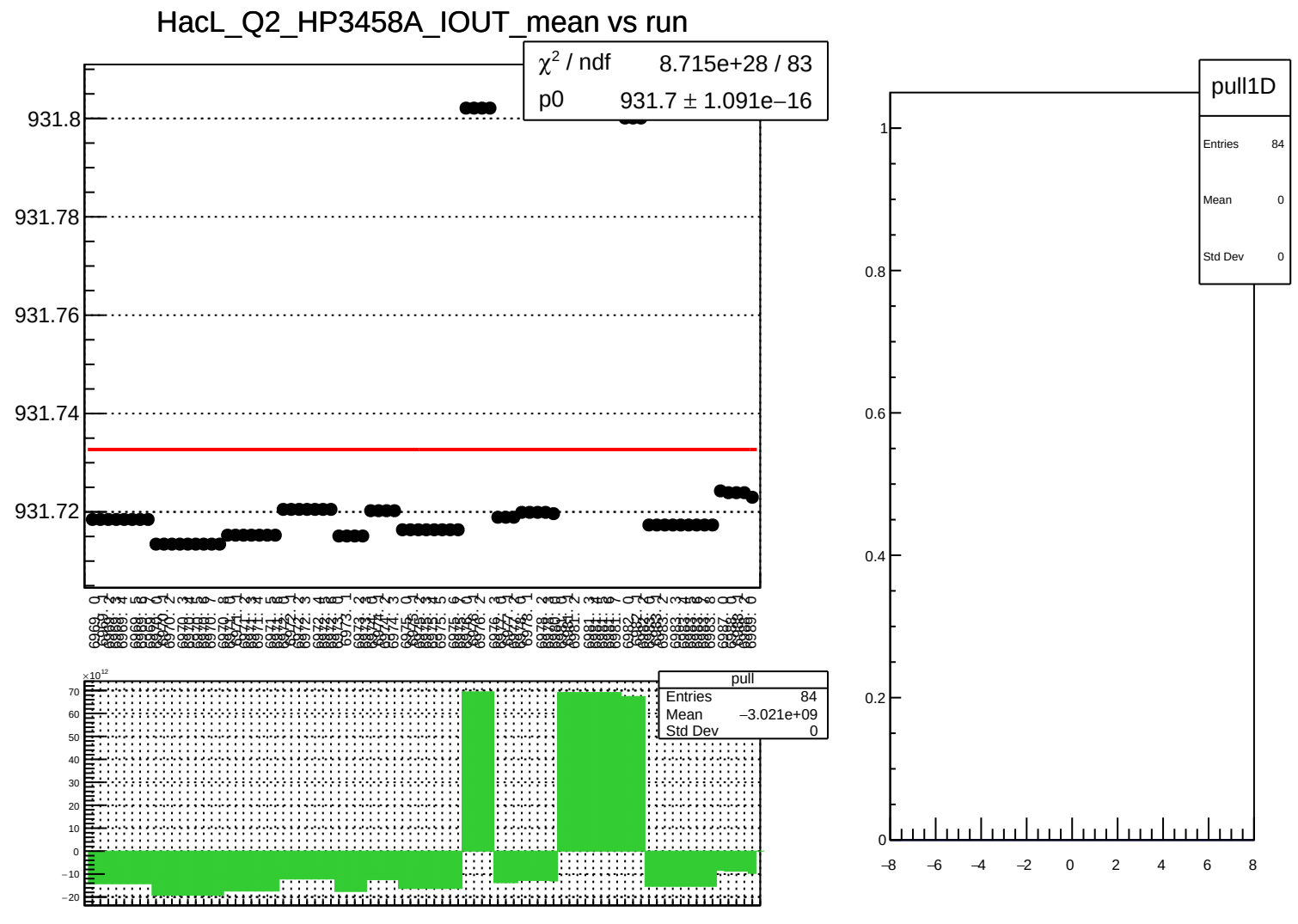

HALLA_p_mean vs run
χ² / ndf 3.515e+33 / 83
p0 2173 ± 1.091e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 84
Mean −5.995e+08
Std Dev 0
×10¹⁵
4
2
0
−2
−4
−6
−8
−10
−12
−14

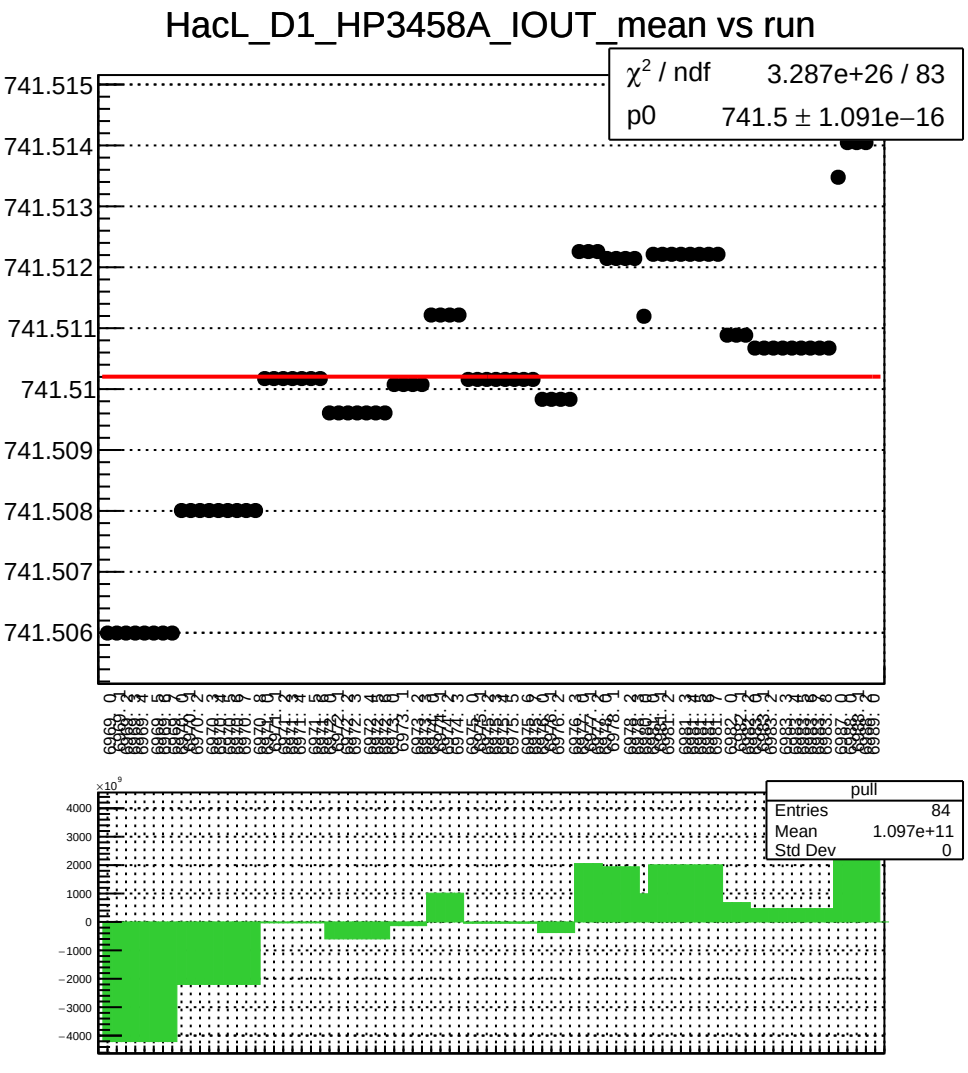

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

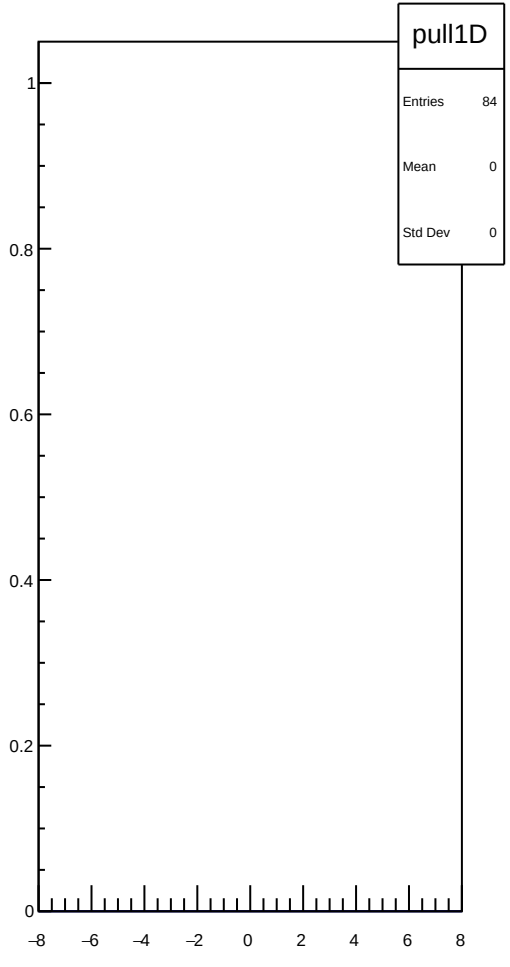

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.546e+23 / 83
p0 −3.608e−05 ± 1.091e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
40
20
0
−20
−40
−60
pull
Entries 84
Mean 5.223e+08
Std Dev 0

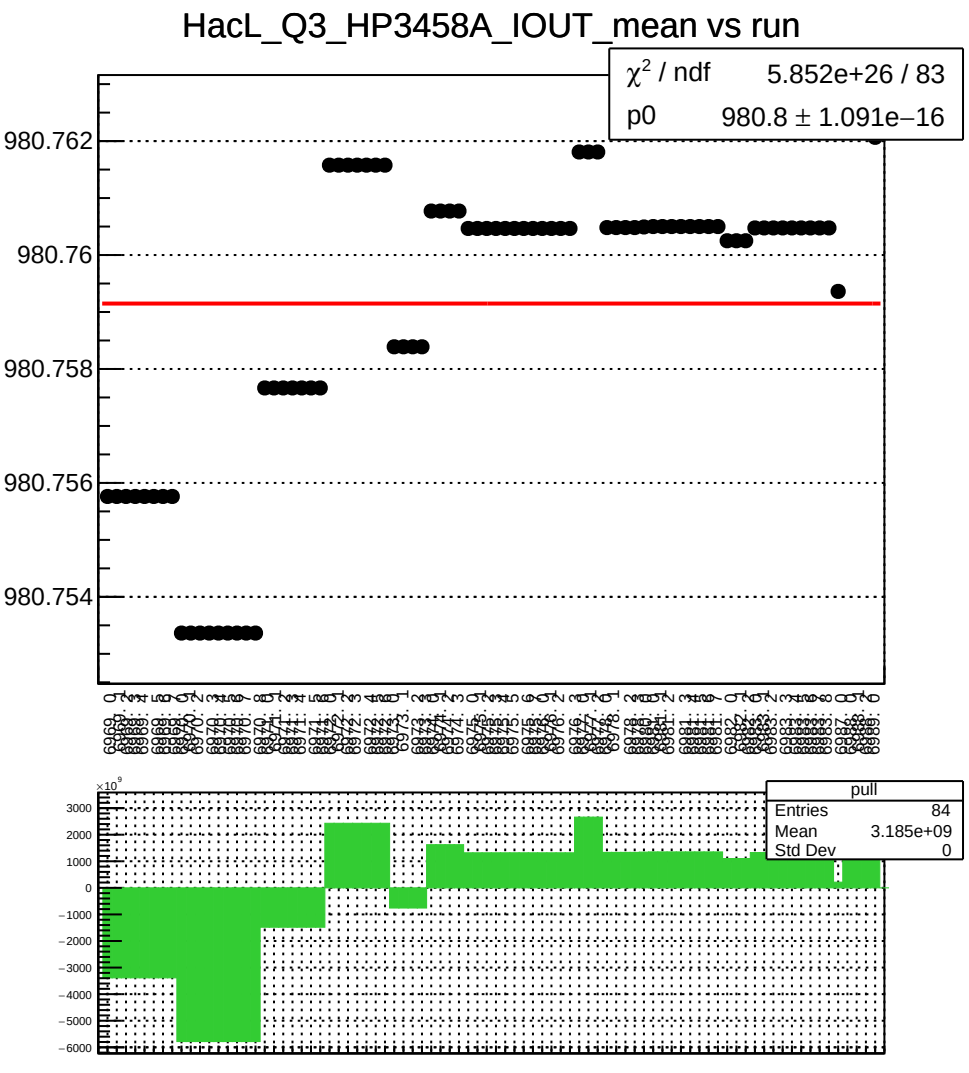

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

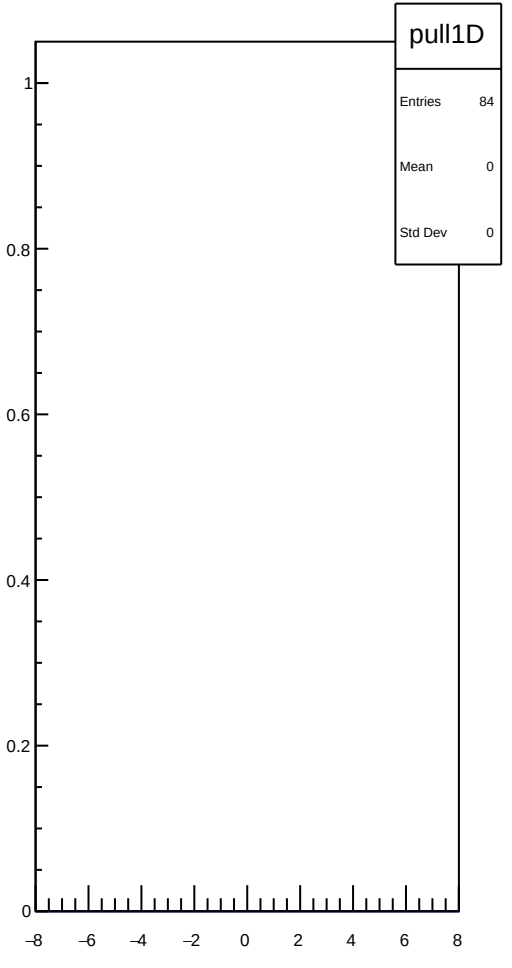

MQ171LM_mean vs run
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
9.375
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0.01735
Std Dev 0

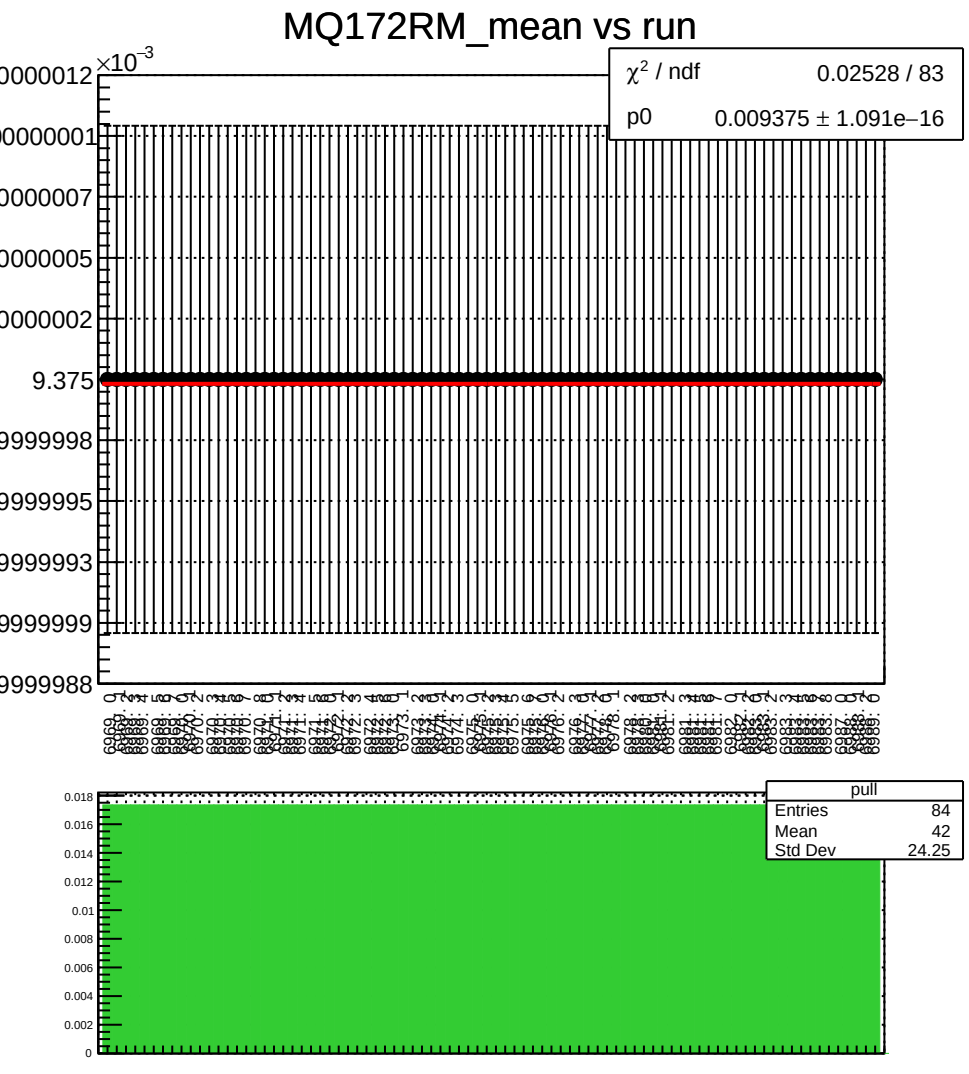

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.715e+28 / 83
p0 931.7 ± 1.091e−16
931.8
931.78
931.76
931.74
931.72
pull
Entries 84
Mean −3.021e+09
Std Dev 0
×10¹²
70
60
50
40
30
20
10
0
−10
−20
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

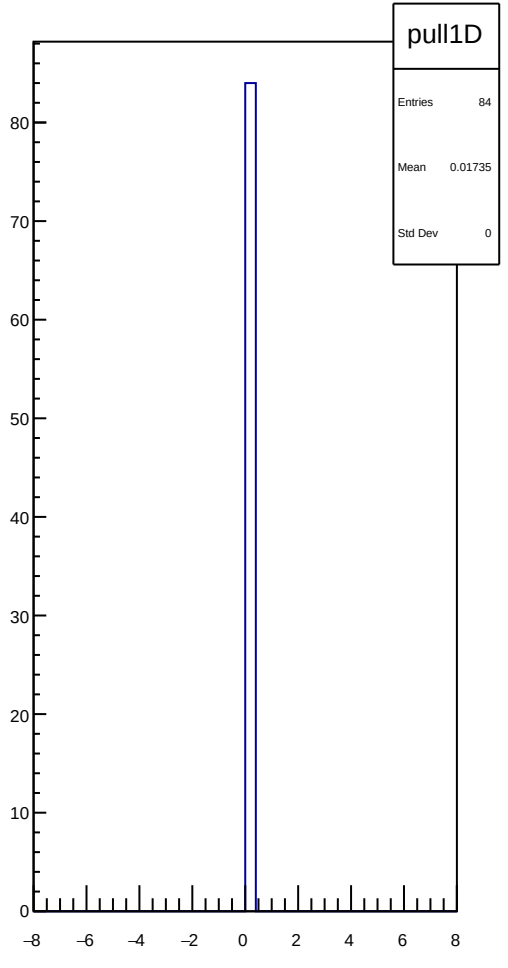

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.287e+26 / 83
p0 741.5 ± 1.091e−16
741.515
741.514
741.513
741.512
741.511
741.51
741.509
741.508
741.507
741.506
pull
Entries 84
Mean 1.097e+11
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000

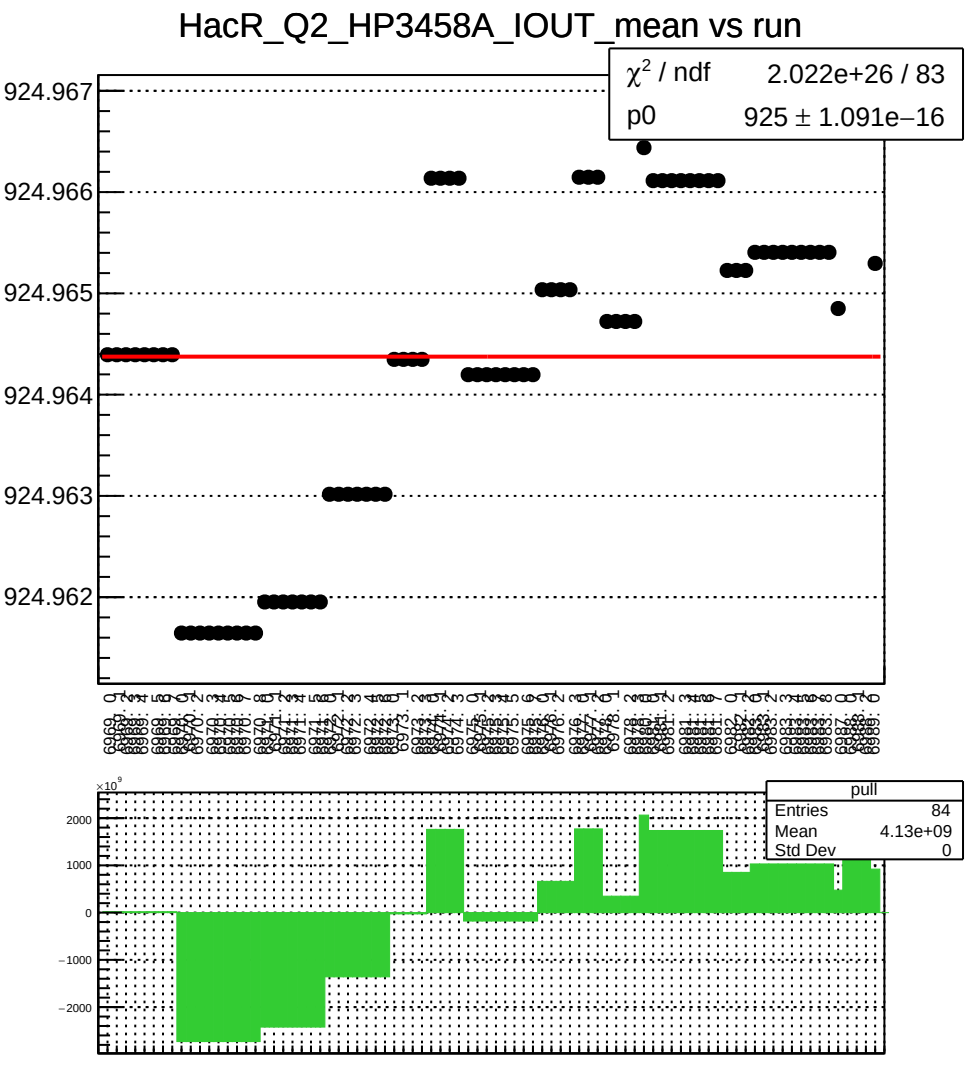

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

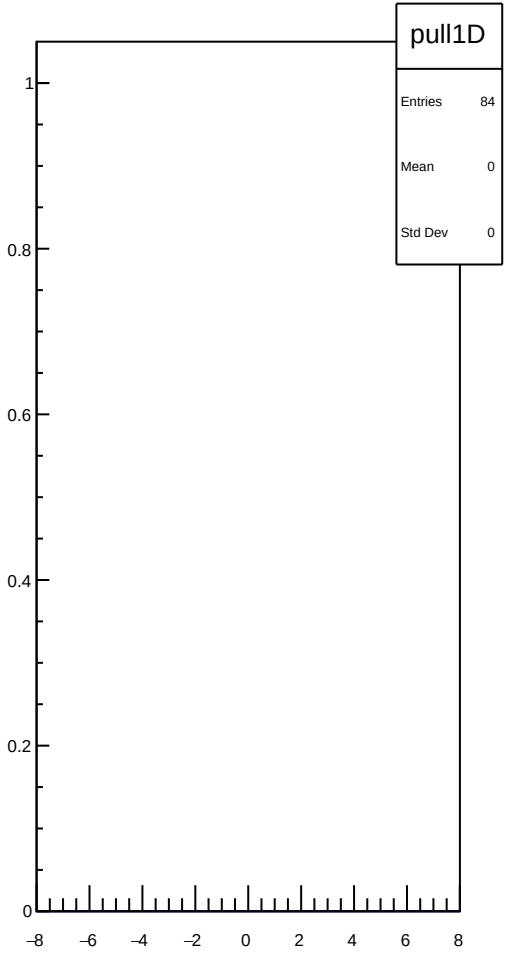

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.852e+26 / 83
p0 980.8 ± 1.091e−16
980.762
980.76
980.758
980.756
980.754
pull
Entries 84
Mean 3.185e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000

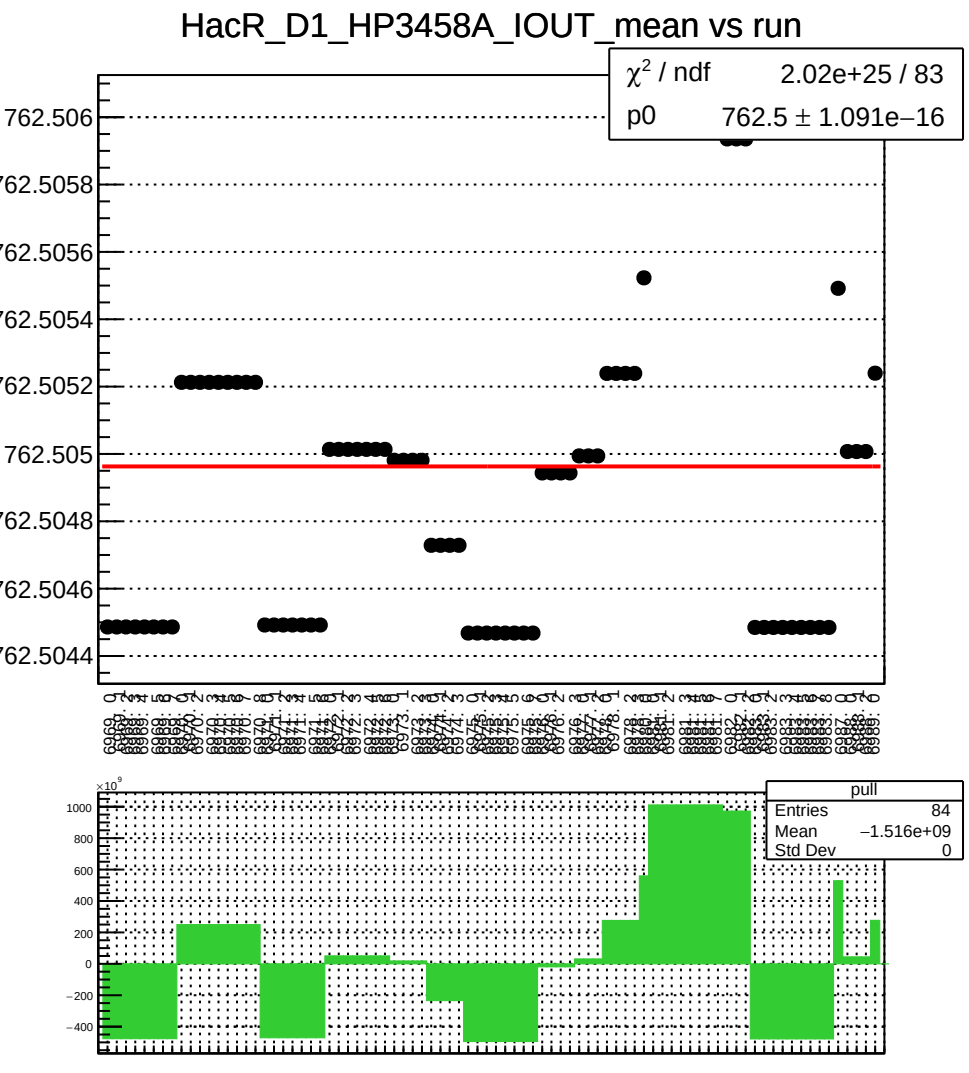

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

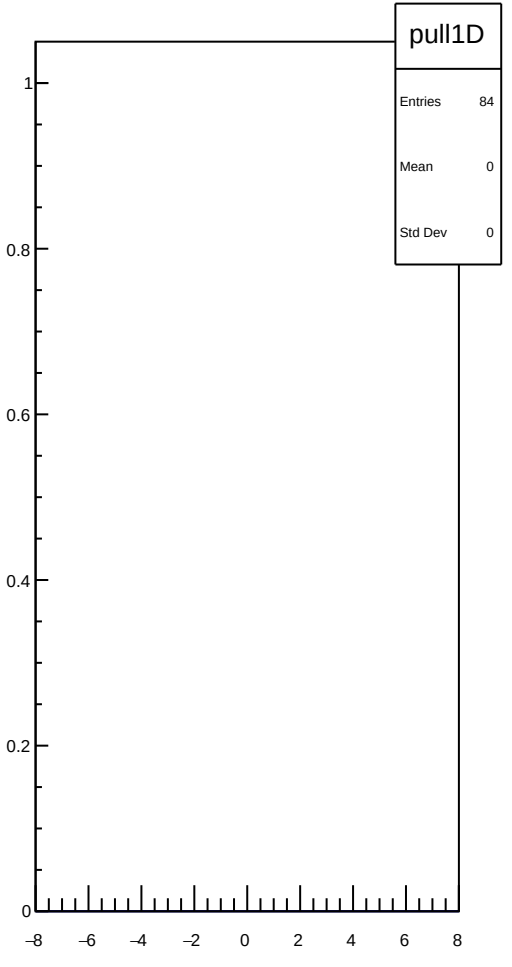

MQ172RM_mean vs run
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
9.375
pull
Entries 84
Mean 42
Std Dev 24.25

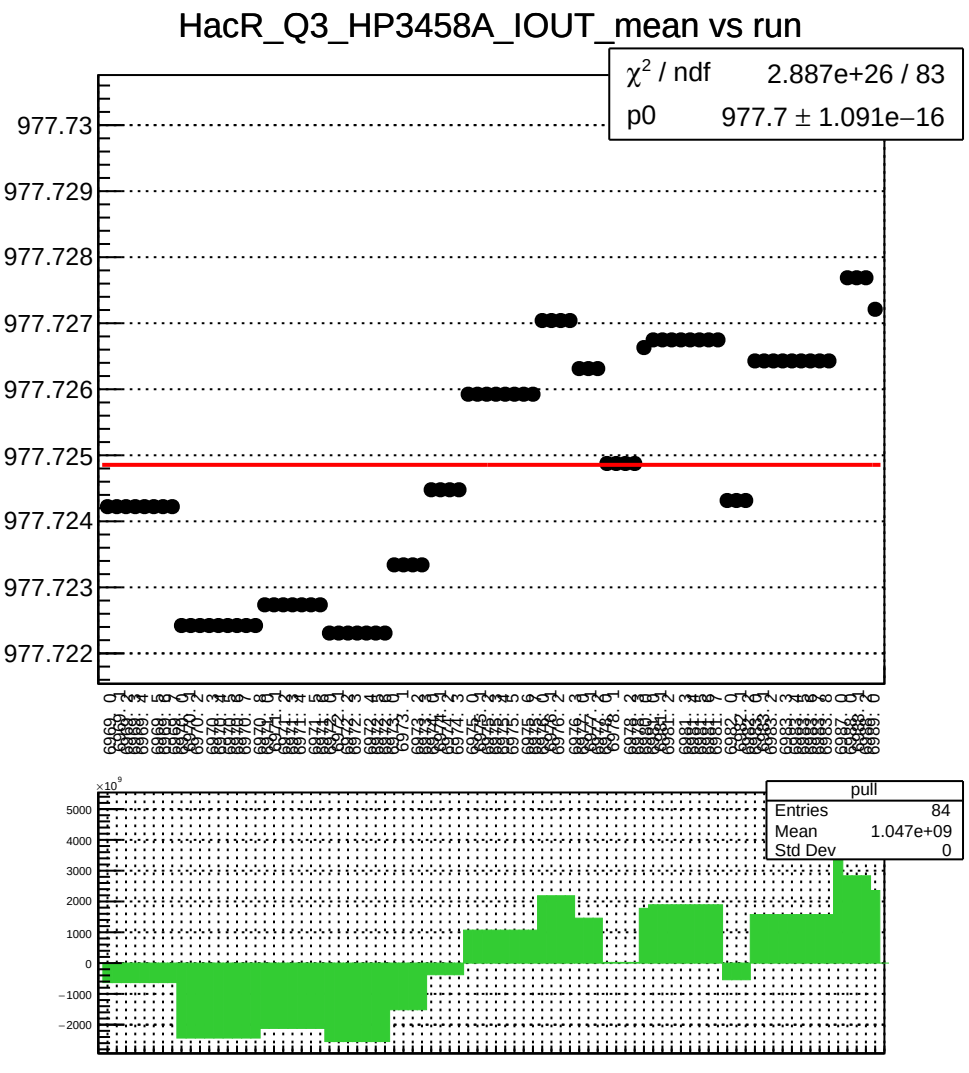

pull1D
Entries 84
Mean 0.01735
Std Dev 0

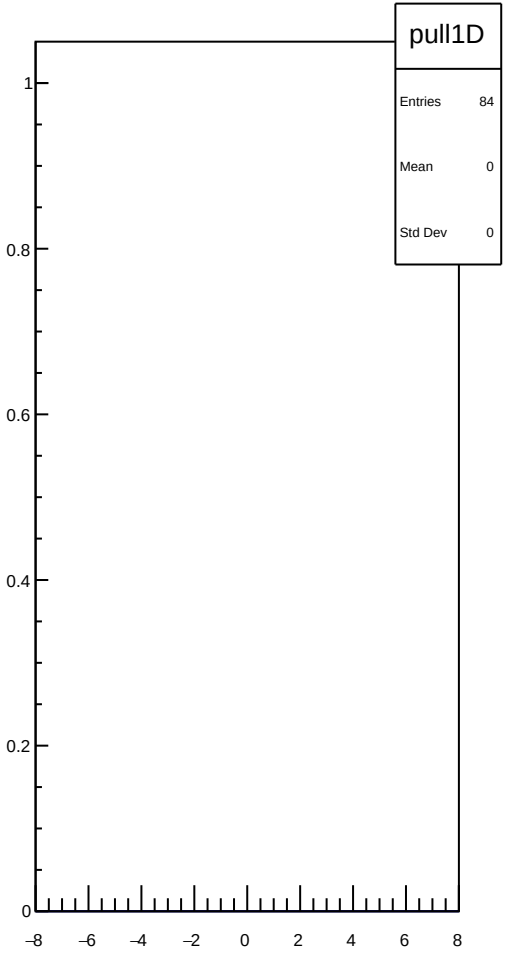

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.022e+26 / 83
p0 925 ± 1.091e−16
924.967
924.966
924.965
924.964
924.963
924.962
×10⁹
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 4.13e+09
Std Dev 0

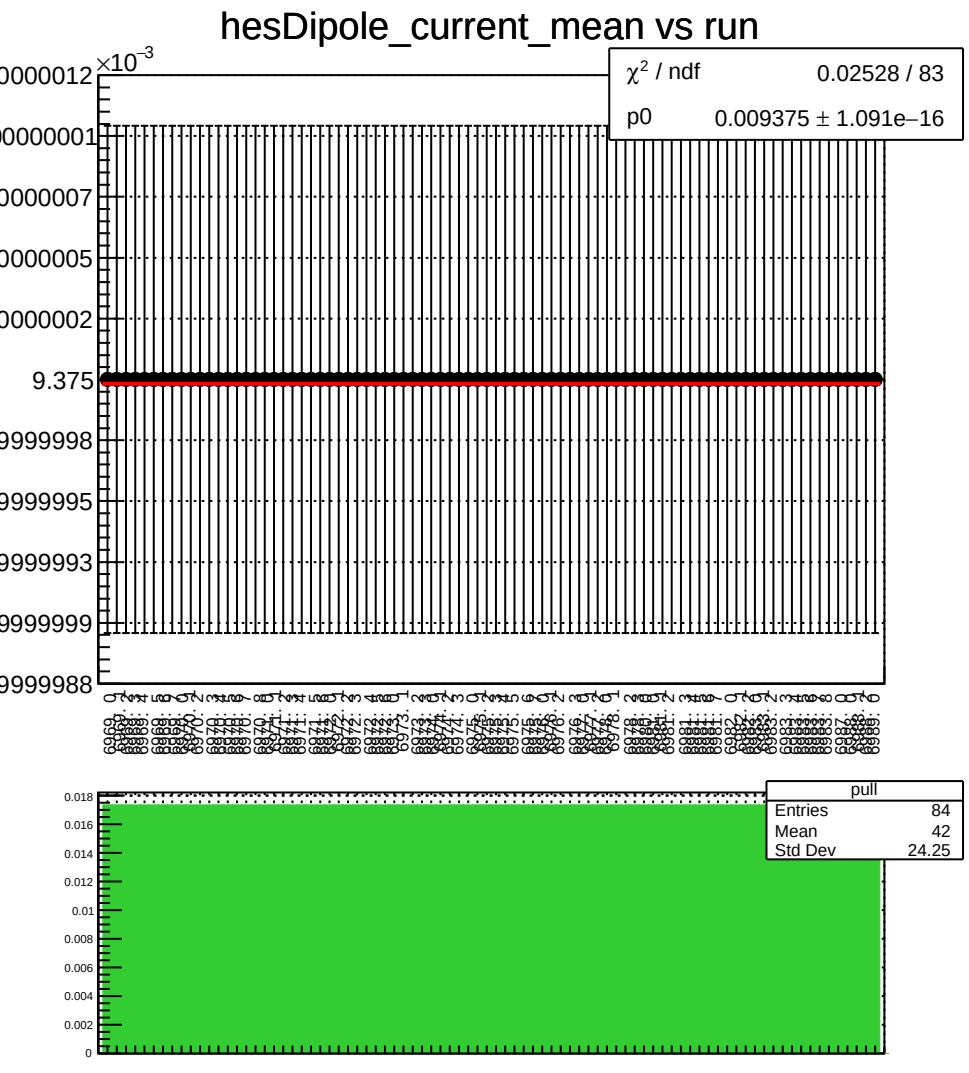

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

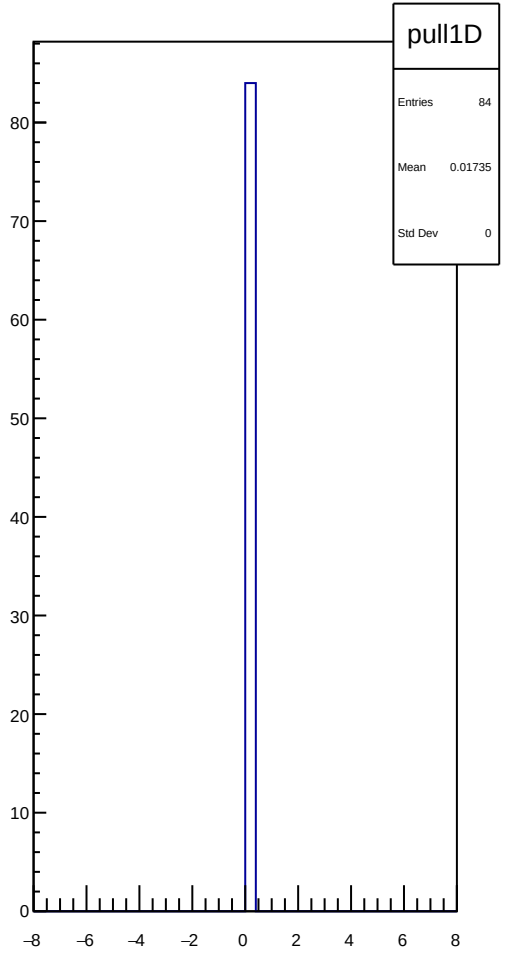

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.02e+25 / 83
p0 762.5 ± 1.091e−16
762.506
762.5058
762.5056
762.5054
762.5052
762.505
762.5048
762.5046
762.5044
pull
Entries 84
Mean −1.516e+09
Std Dev 0
×10⁹
1000
800
600
400
200
0
−200
−400

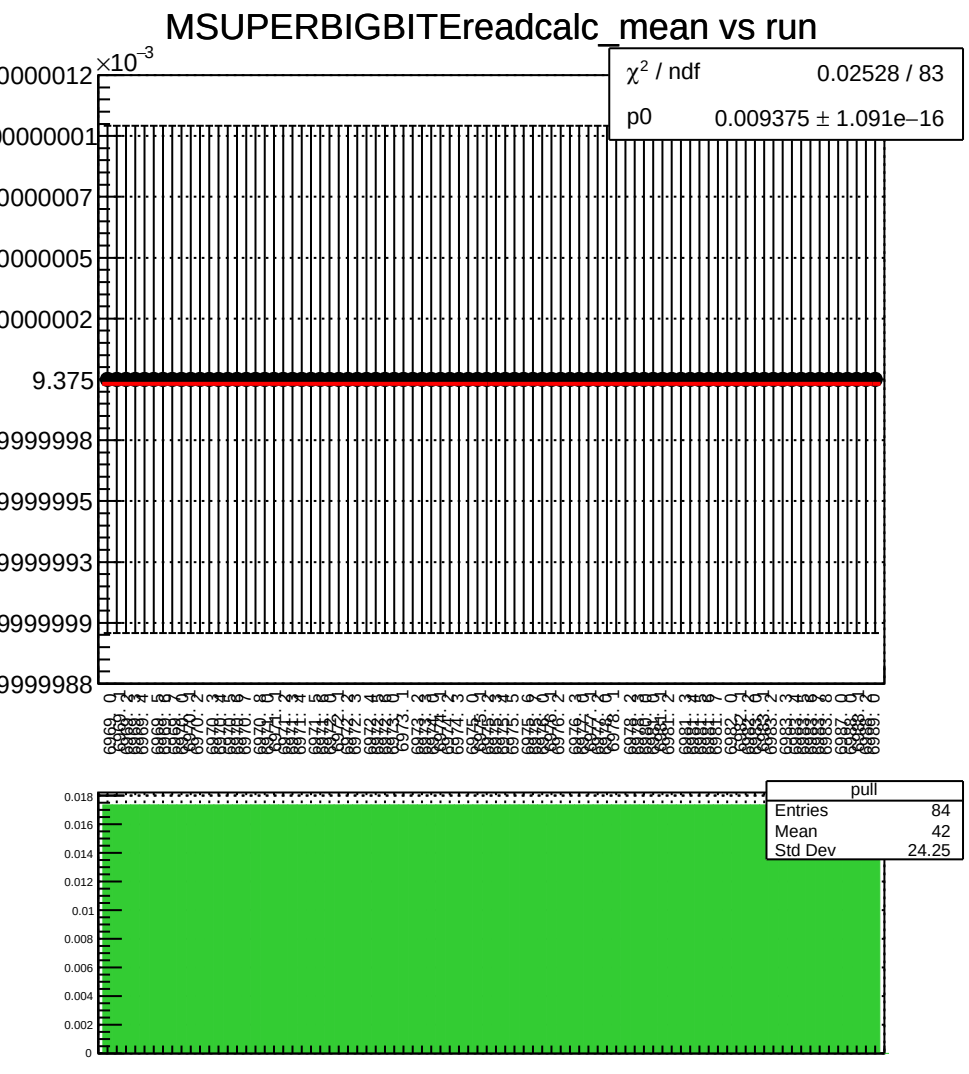

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

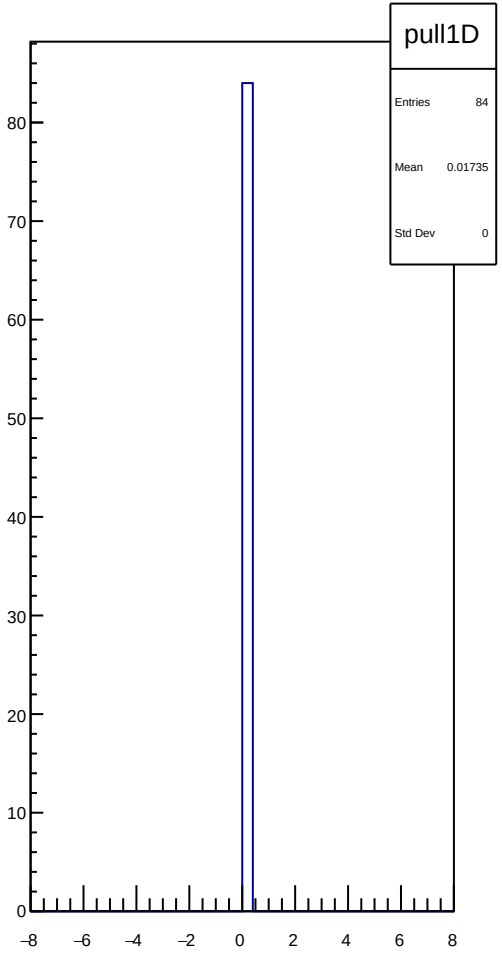

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.887e+26 / 83
p0 977.7 ± 1.091e−16
977.73
977.729
977.728
977.727
977.726
977.725
977.724
977.723
977.722
×10⁹
5000
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 1.047e+09
Std Dev 0

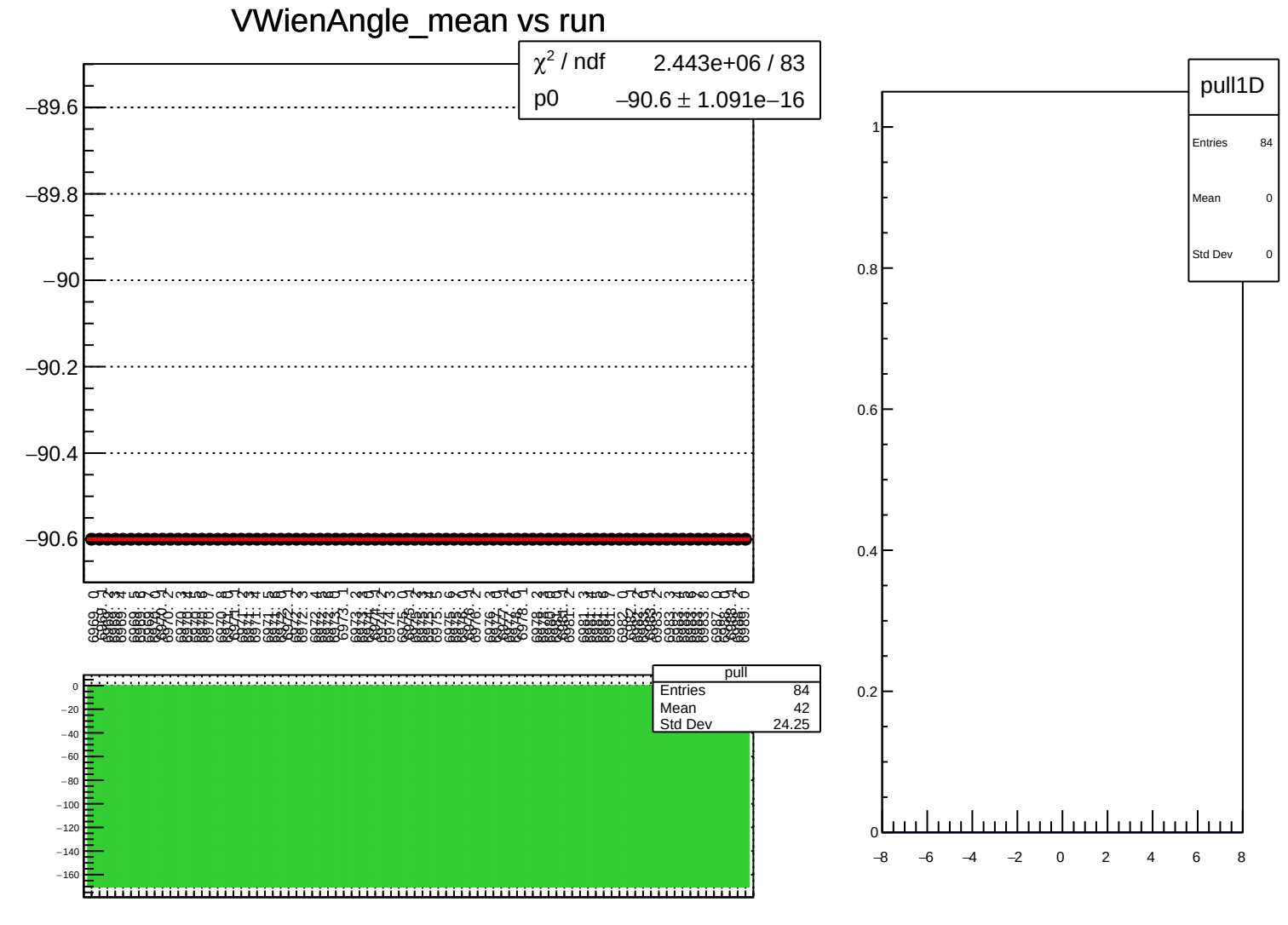

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

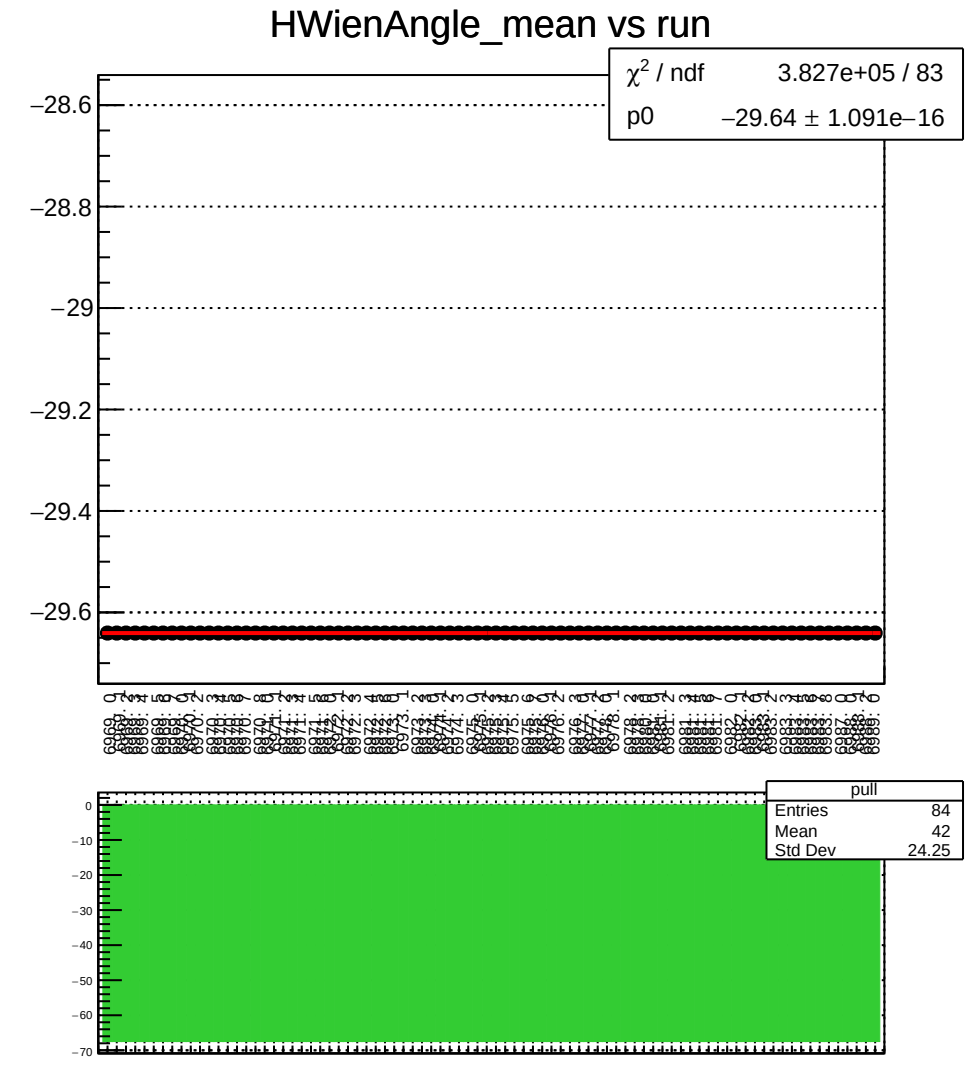

hesDipole_current_mean vs run
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
pull
Entries 84
Mean 42
Std Dev 24.25

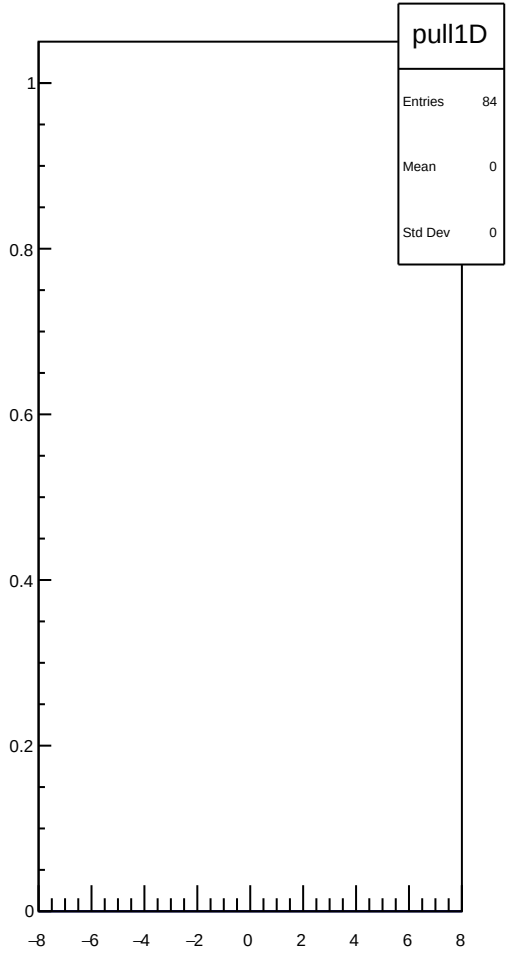

pull1D
Entries 84
Mean 0.01735
Std Dev 0

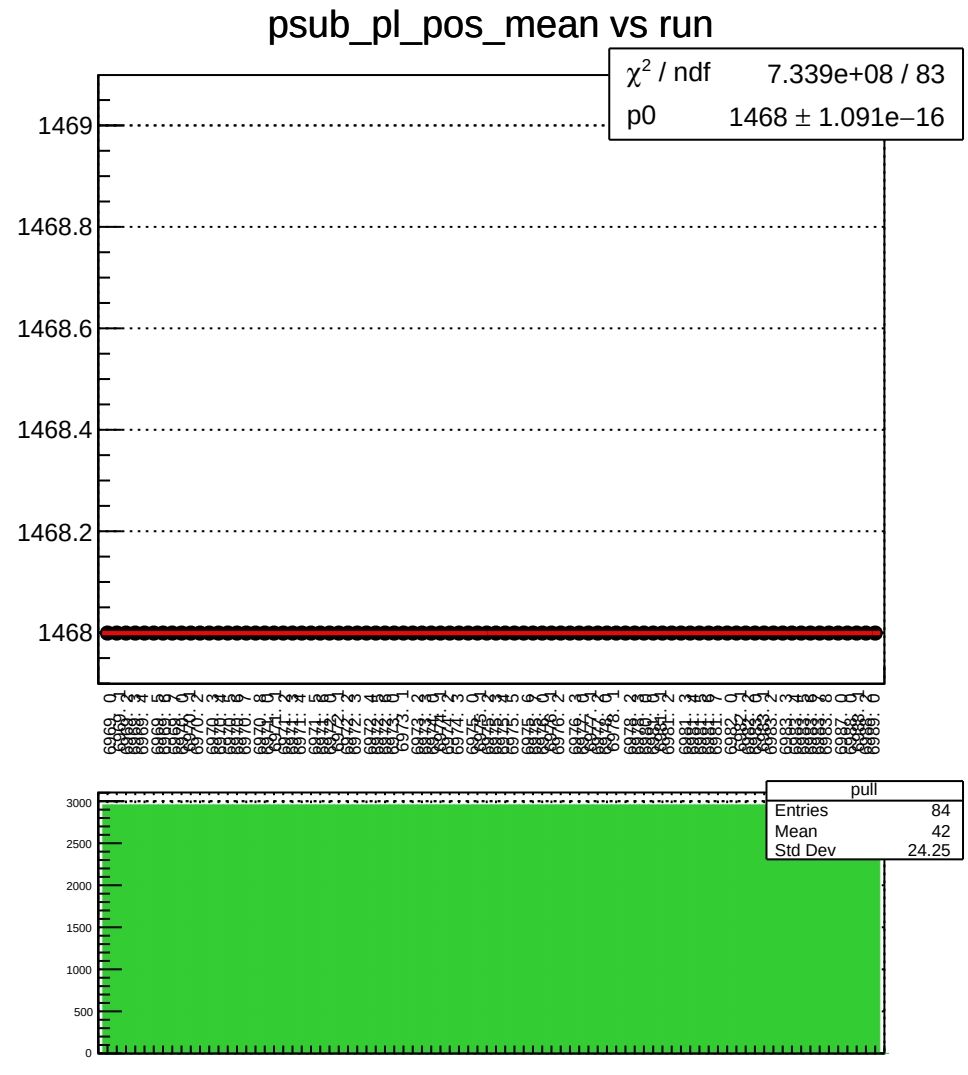

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
9.375
pull
Entries 84
Mean 42
Std Dev 24.25

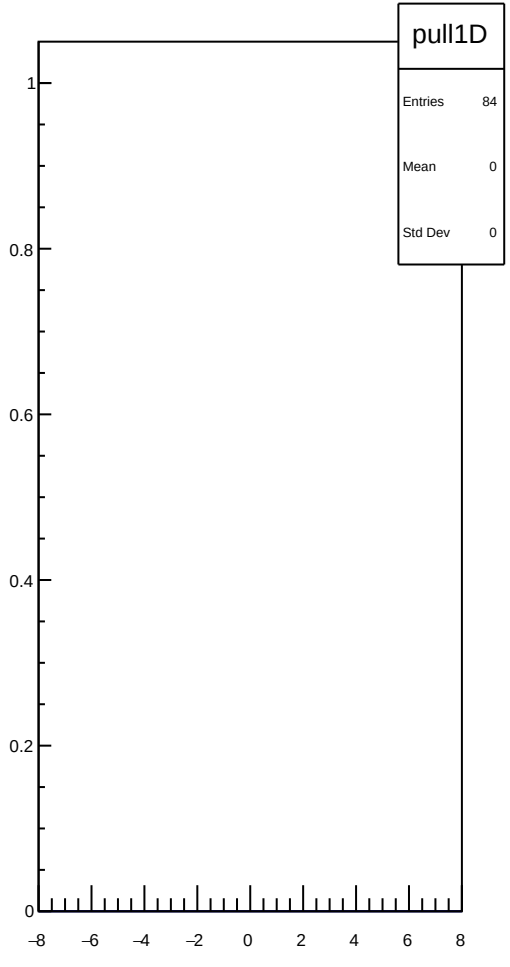

pull1D
Entries 84
Mean 0.01735
Std Dev 0

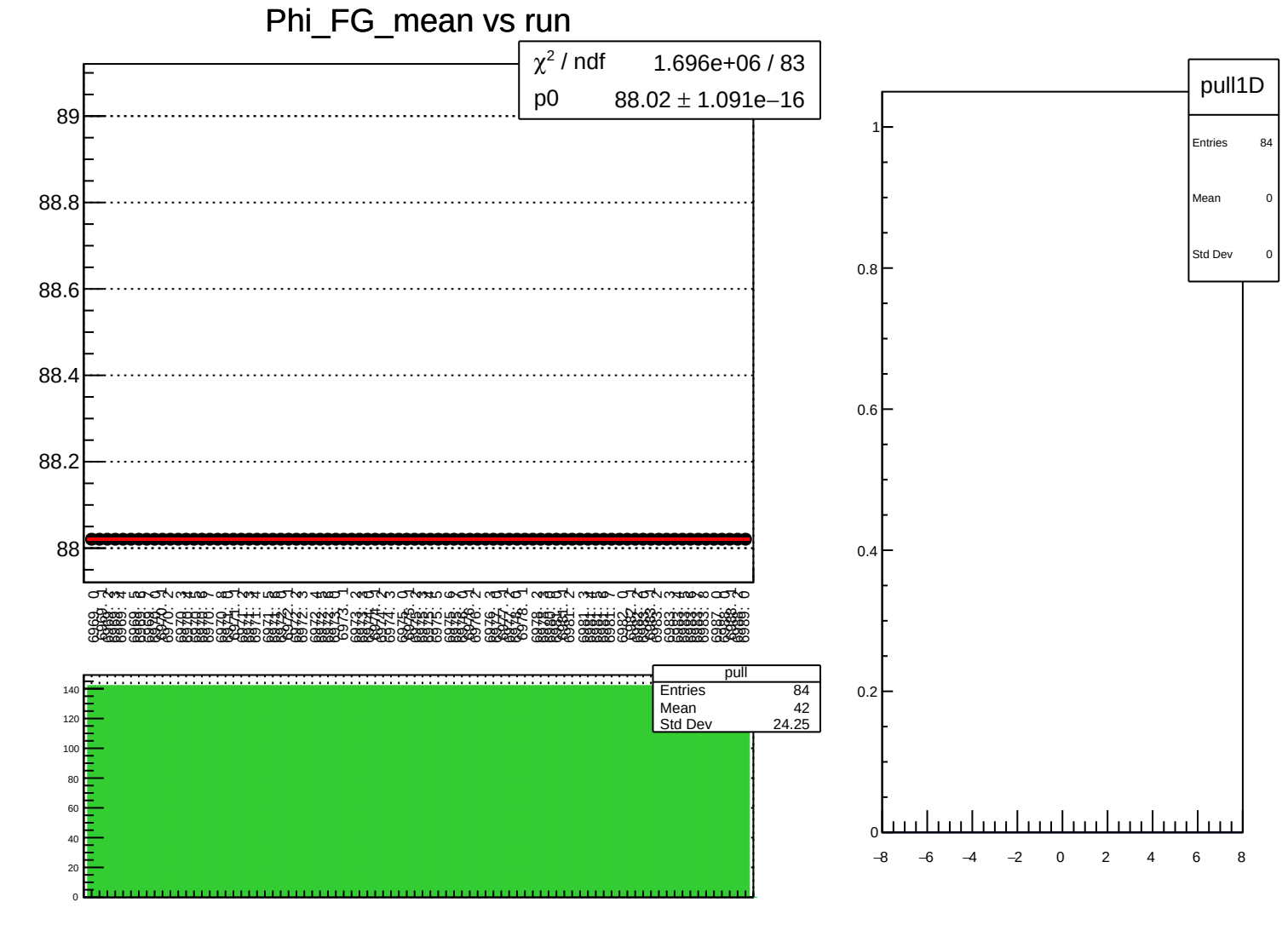

VWienAngle_mean vs run
χ² / ndf 2.443e+06 / 83
p0 −90.6 ± 1.091e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 84
Mean 42
Std Dev 24.25
0
−20
−40
−60
−80
−100
−120
−140
−160
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

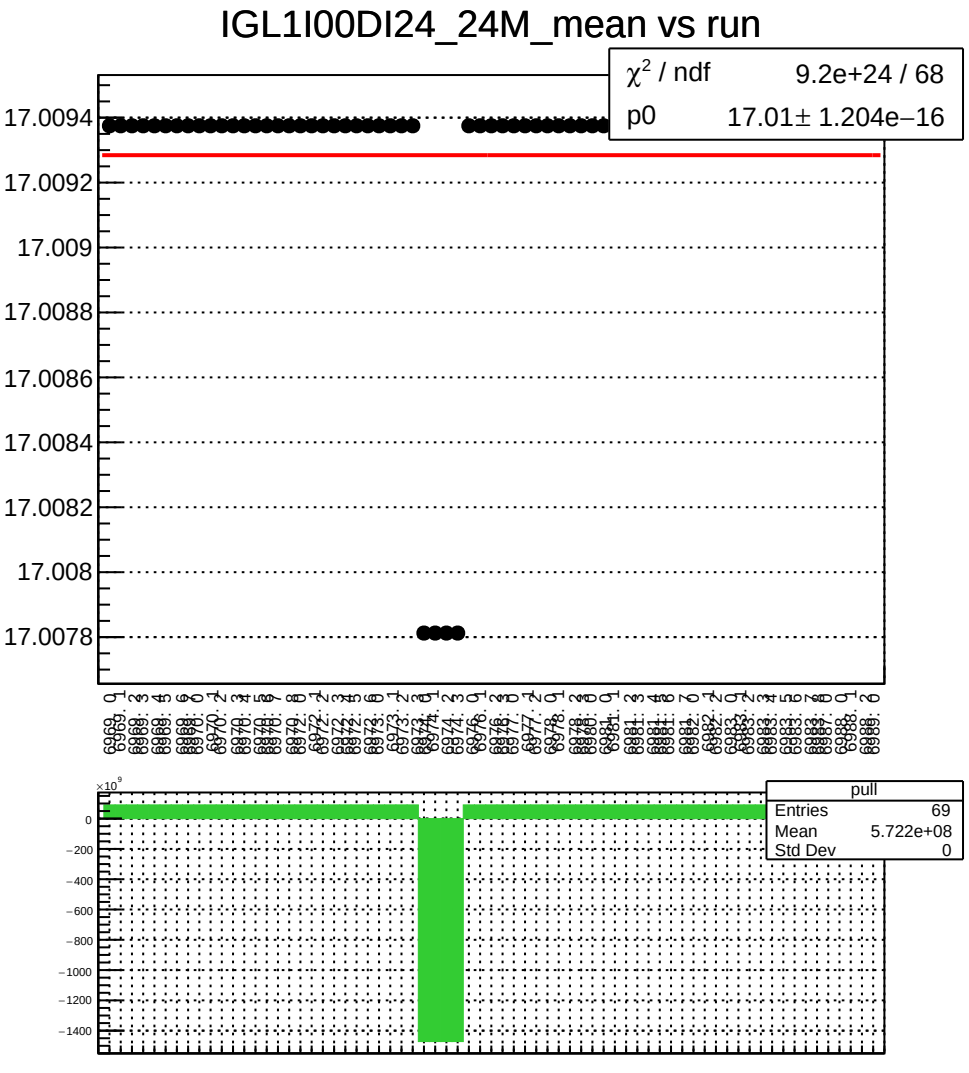

HWienAngle_mean vs run
χ² / ndf 3.827e+05 / 83
p0 −29.64 ± 1.091e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 84
Mean 42
Std Dev 24.25
0
−10
−20
−30
−40
−50
−60
−70

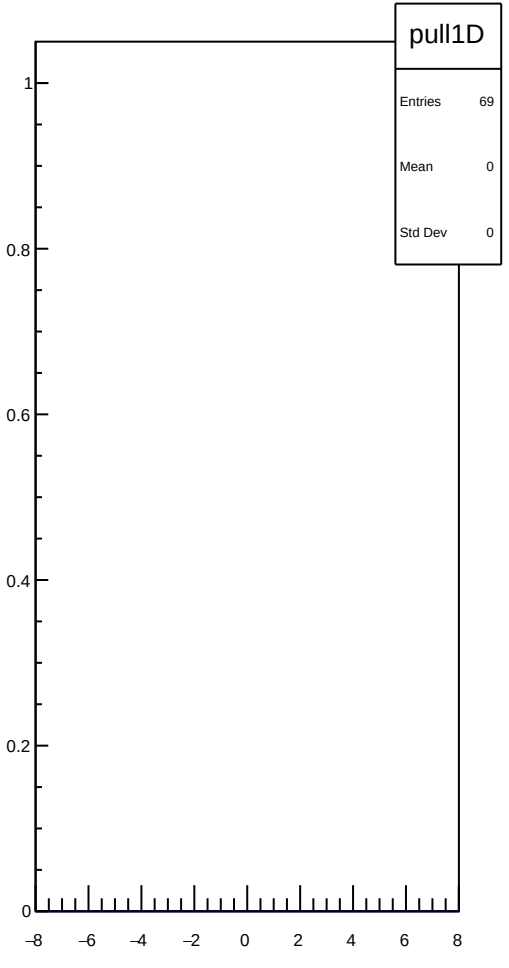

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

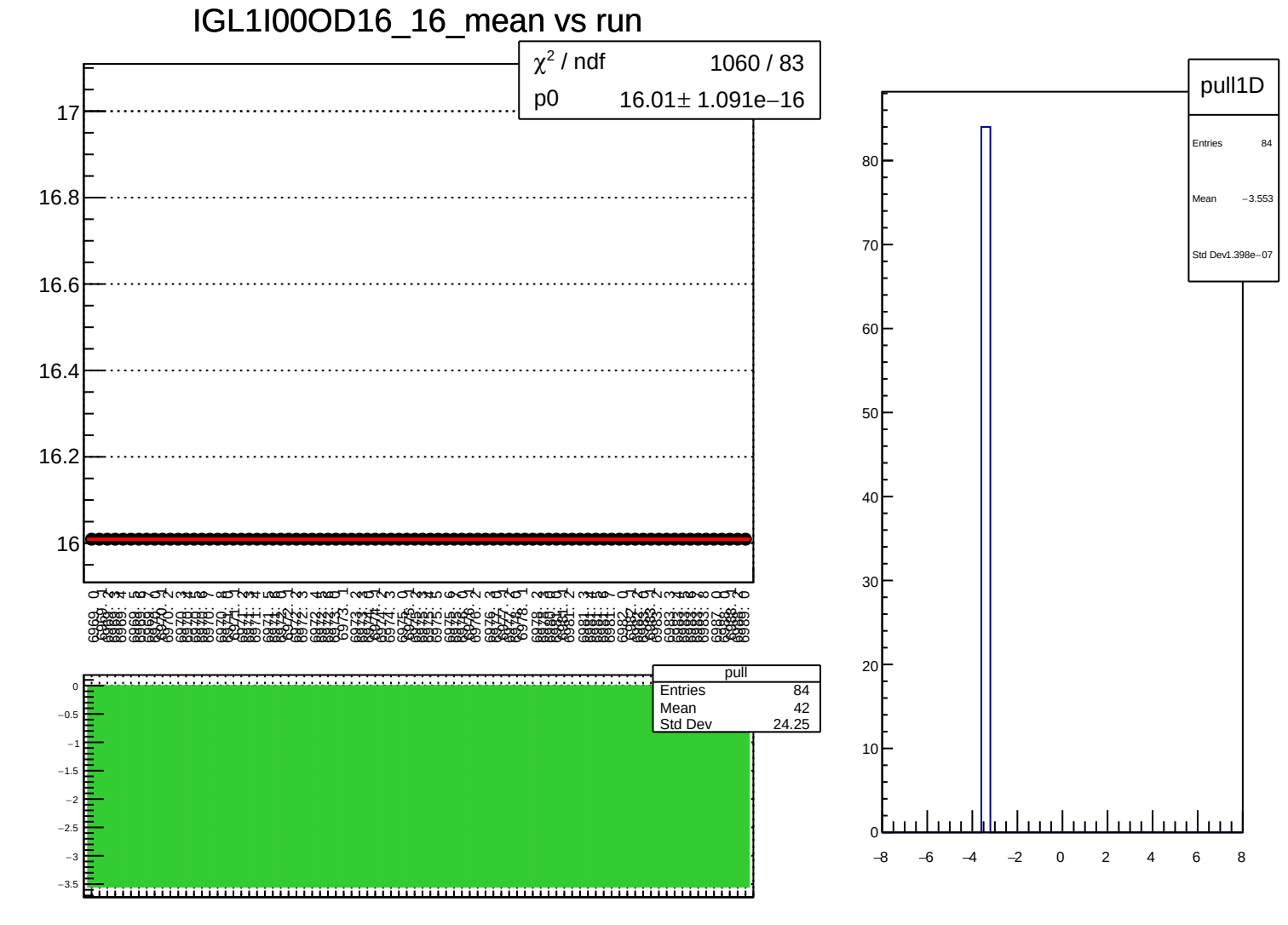

psub_pl_pos_mean vs run
χ² / ndf 7.339e+08 / 83
p0 1468 ± 1.091e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 84
Mean 42
Std Dev 24.25
3000
2500
2000
1500
1000
500
0

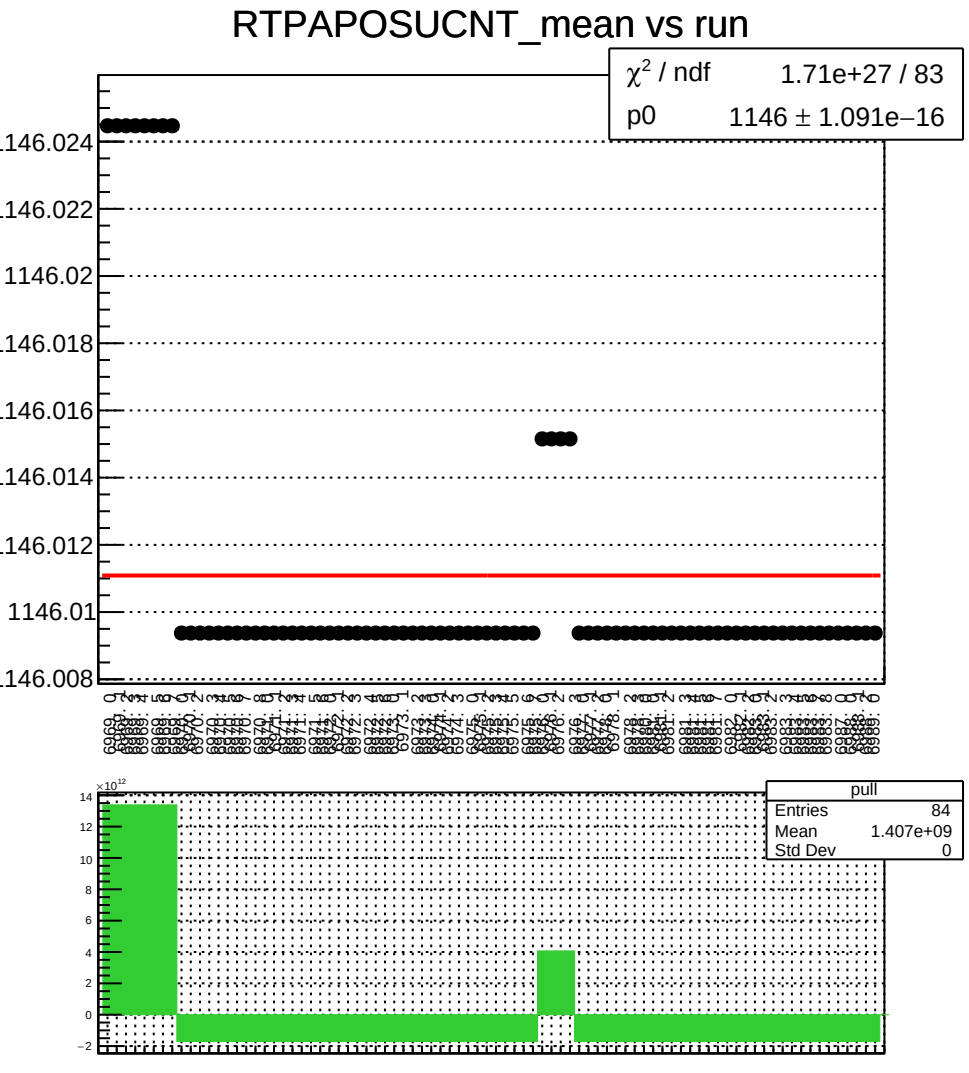

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

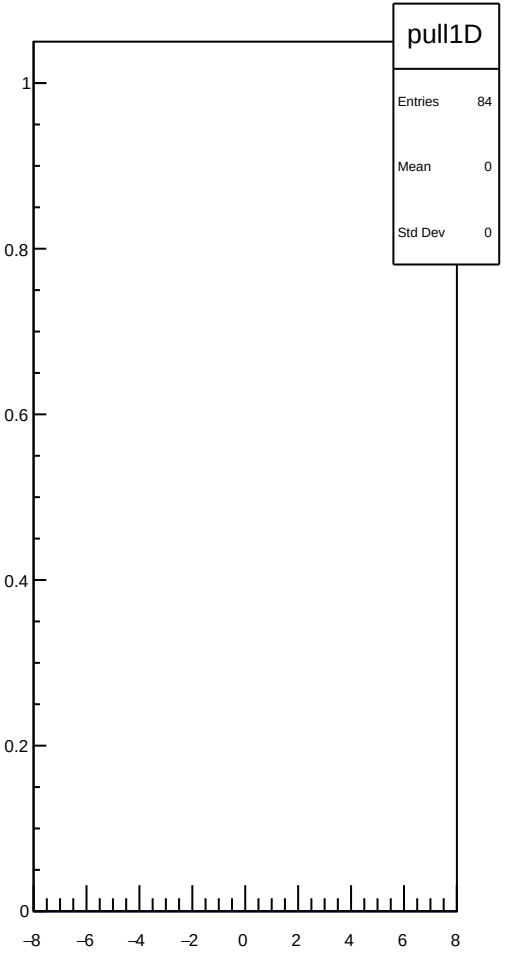

Phi_FG_mean vs run
χ² / ndf 1.696e+06 / 83
p0 88.02 ± 1.091e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 84
Mean 42
Std Dev 24.25
140
120
100
80
60
40
20
0
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

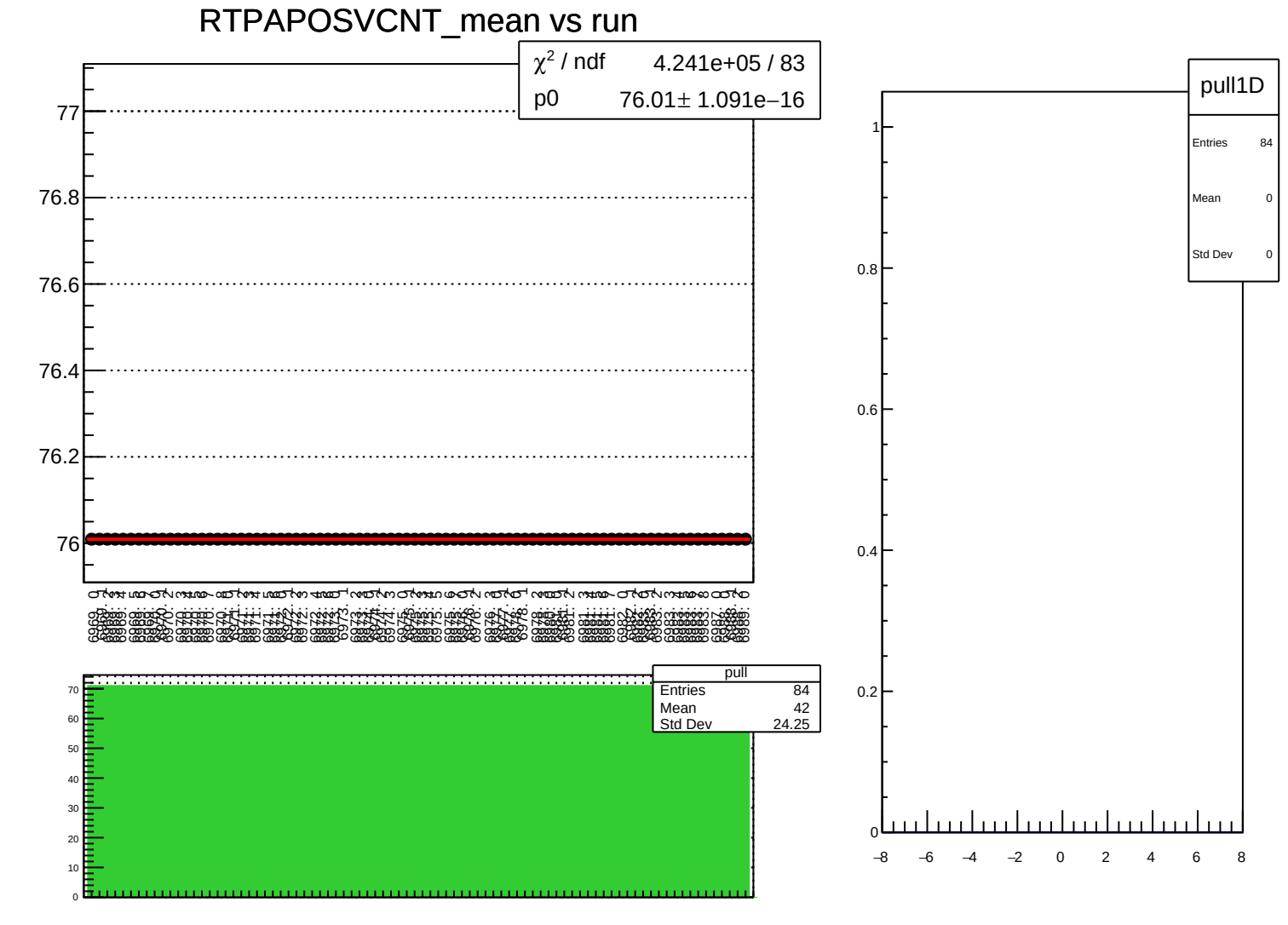

IGL1I00DI24_24M_mean vs run
χ² / ndf 9.2e+24 / 68
p0 17.01± 1.204e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 69
Mean 5.722e+08
Std Dev 0
×10⁹
0
−200
−400
−600
−800
−1000
−1200
−1400

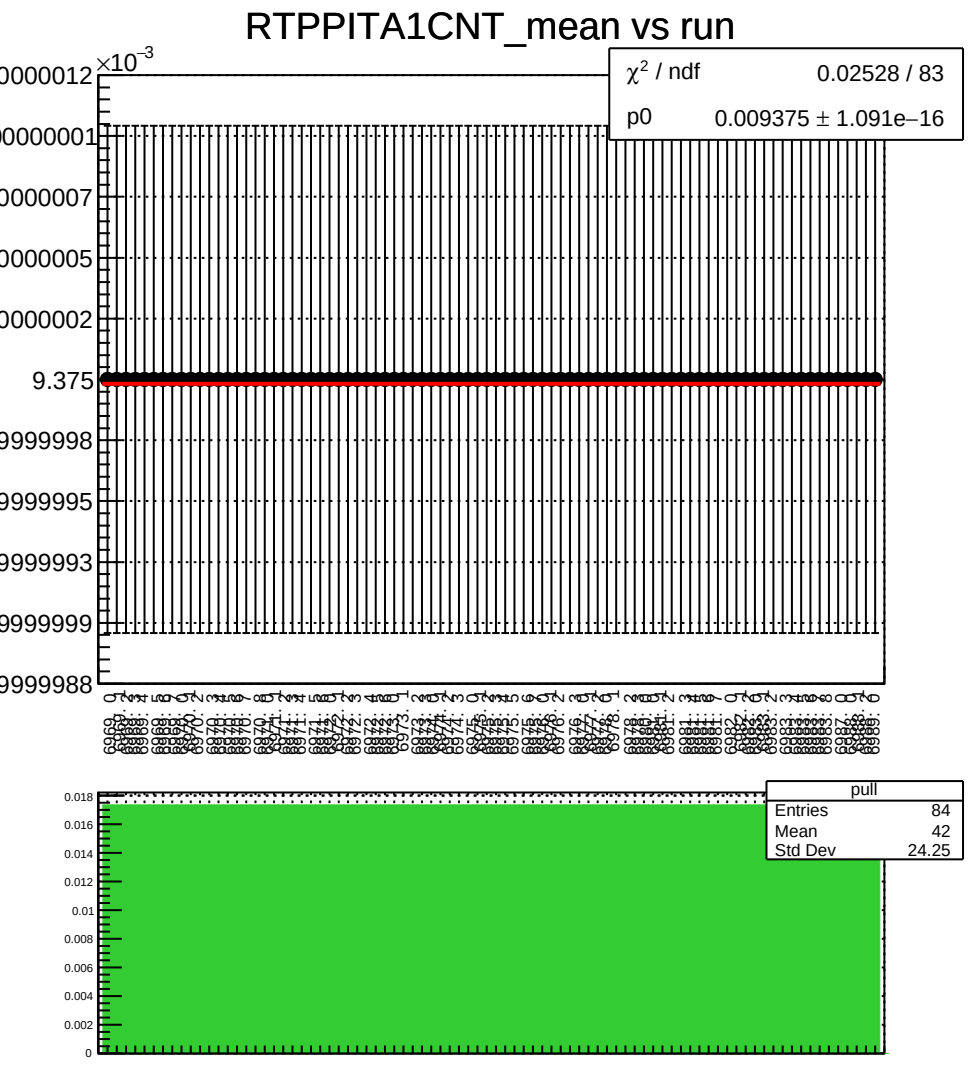

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

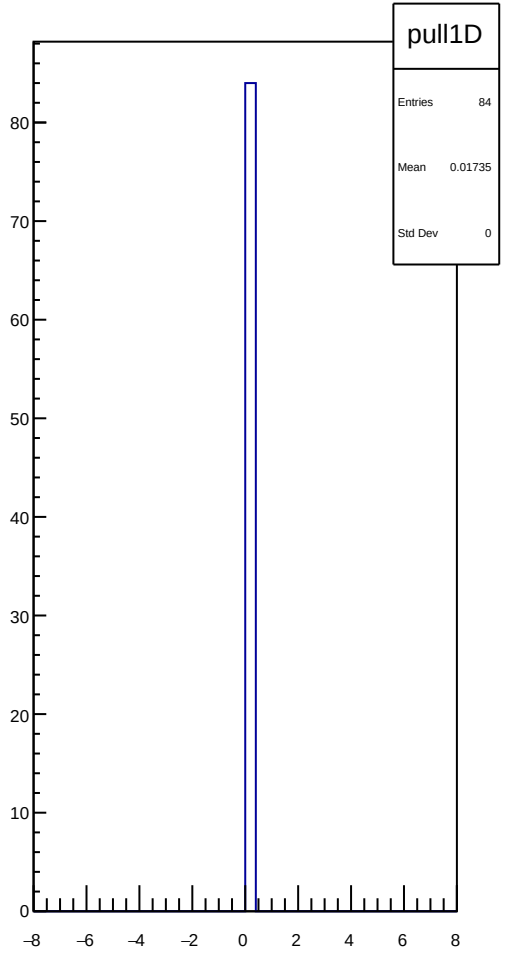

IGL1I00OD16_16_mean vs run
χ² / ndf 1060 / 83
p0 16.01± 1.091e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 84
Mean 42
Std Dev 24.25
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 84
Mean −3.553
Std Dev1.398e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

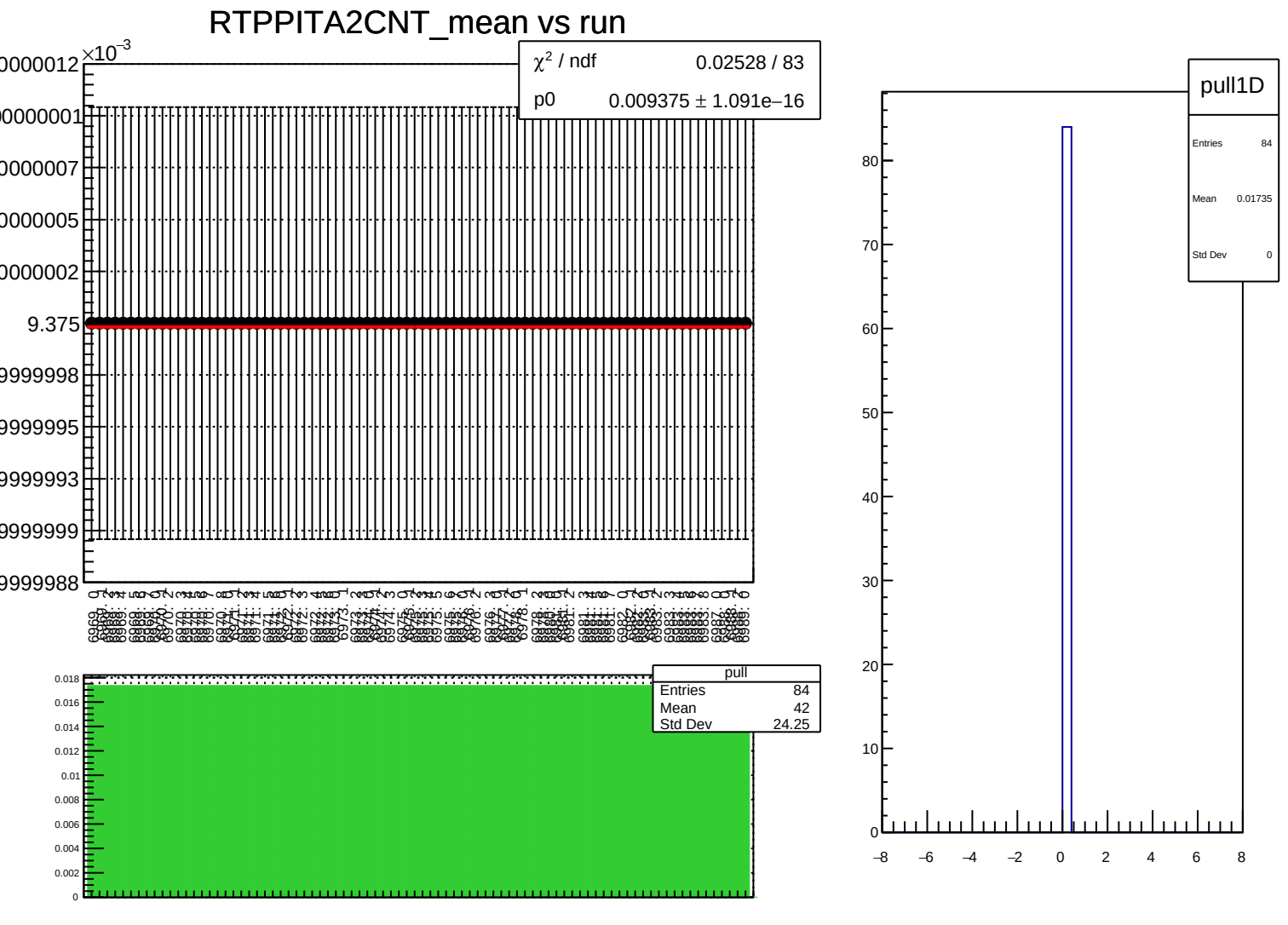

RTPAPOSUCNT_mean vs run
χ² / ndf 1.71e+27 / 83
p0 1146 ± 1.091e−16
1146.024
1146.022
1146.02
1146.018
1146.016
1146.014
1146.012
1146.01
1146.008
pull
Entries 84
Mean 1.407e+09
Std Dev 0
×10¹²
14
12
10
8
6
4
2
0
−2


pull1D
Entries 84
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 4.241e+05 / 83
p0 76.01± 1.091e−16
77
76.8
76.6
76.4
76.2
76
pull
Entries 84
Mean 42
Std Dev 24.25
70
60
50
40
30
20
10
0
pull1D
Entries 84
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 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
pull
Entries 84
Mean 42
Std Dev 24.25


pull1D
Entries 84
Mean 0.01735
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
9.375
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0.01735
Std Dev 0