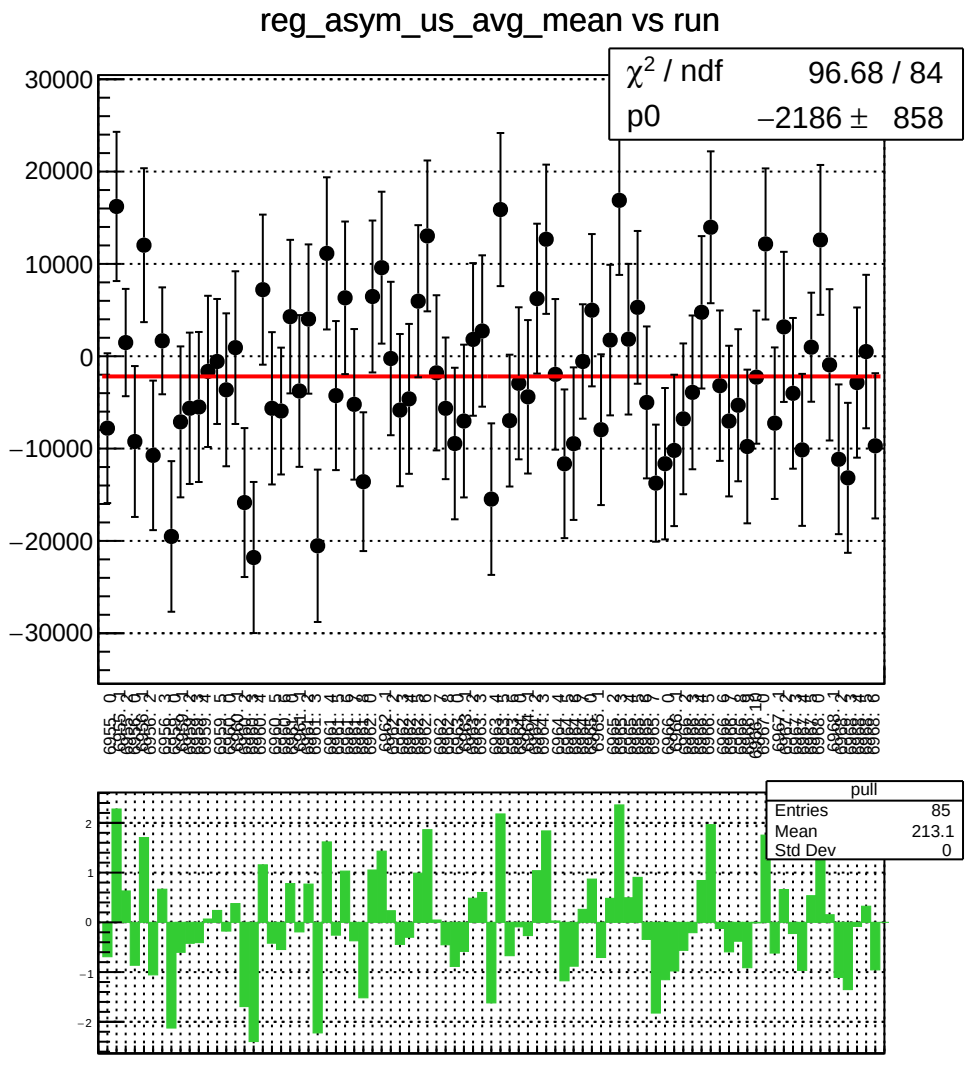
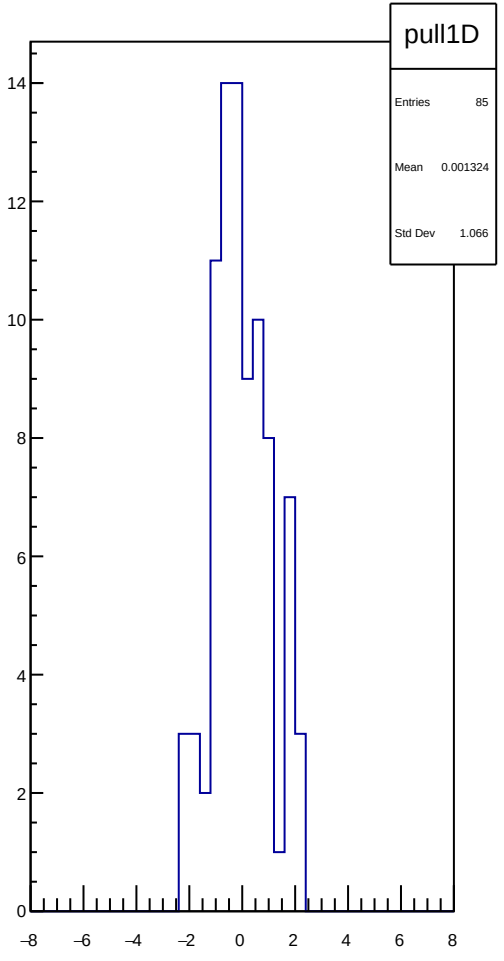
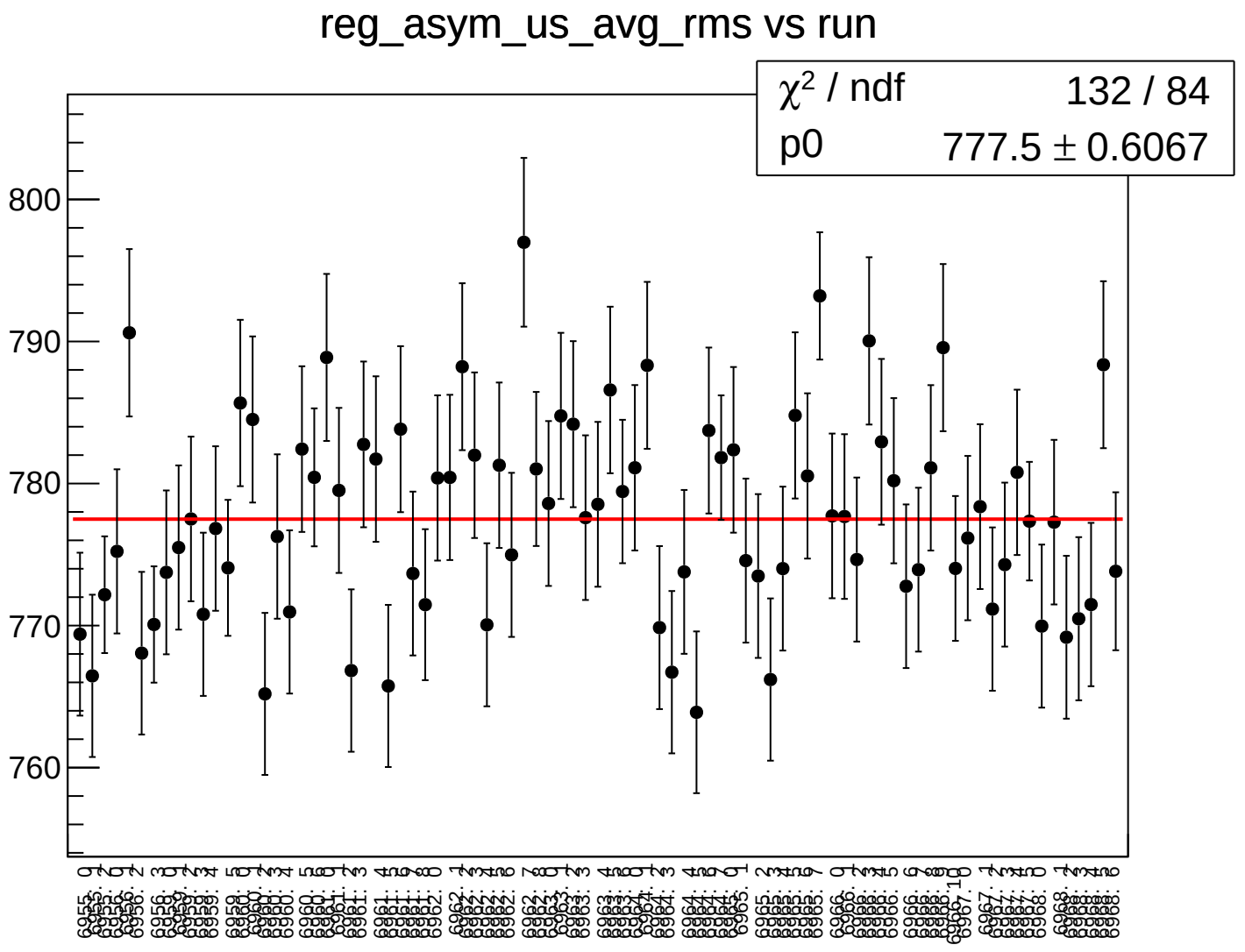
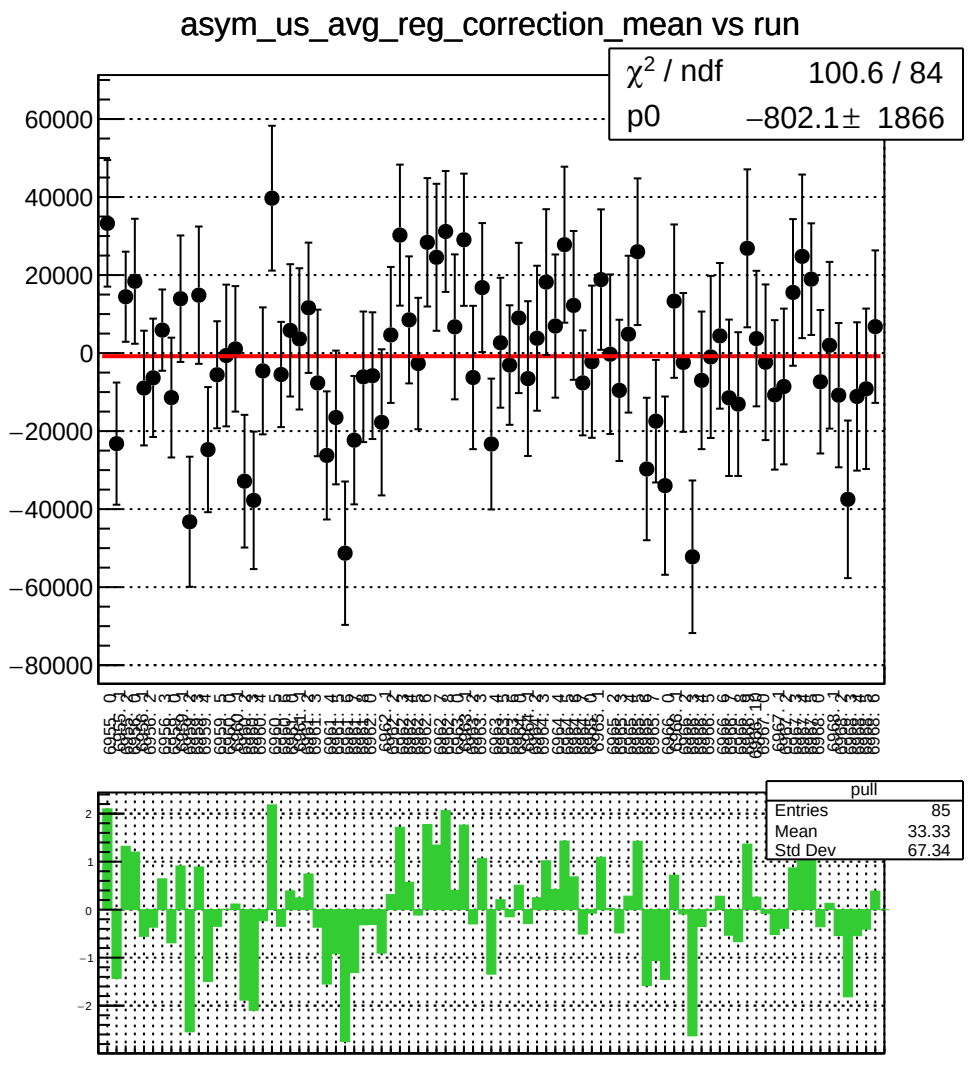
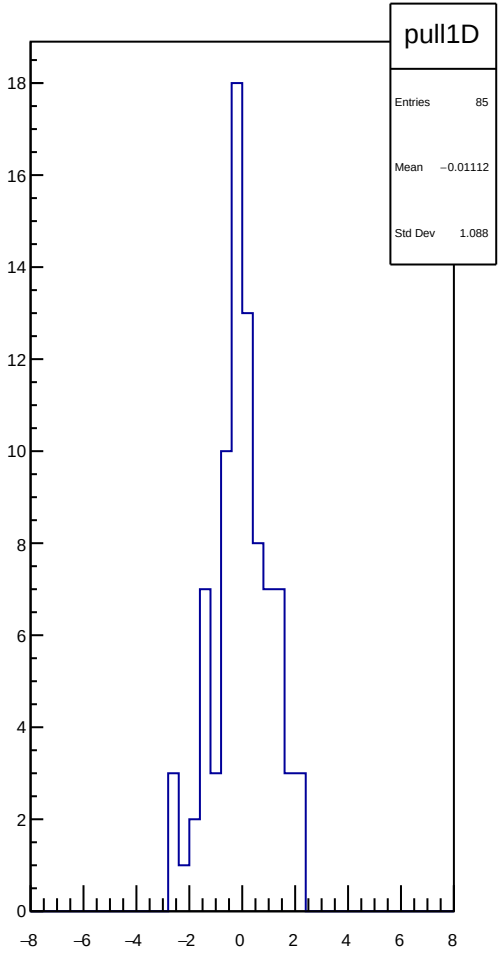
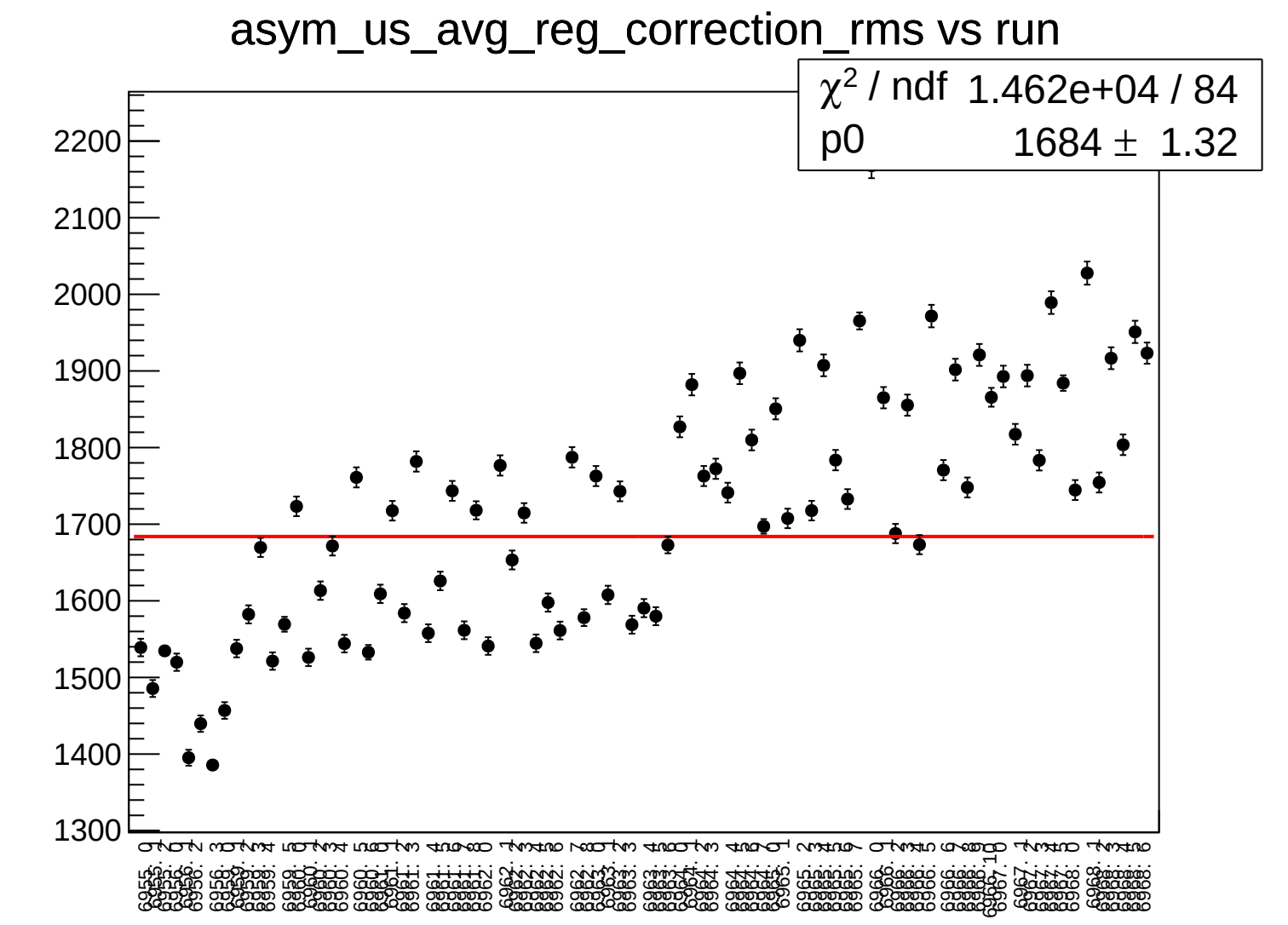

reg_asym_us_avg_mean vs run
χ² / ndf 96.68 / 84
p0 −2186 ± 858
pull
Entries 85
Mean 213.1
Std Dev 0

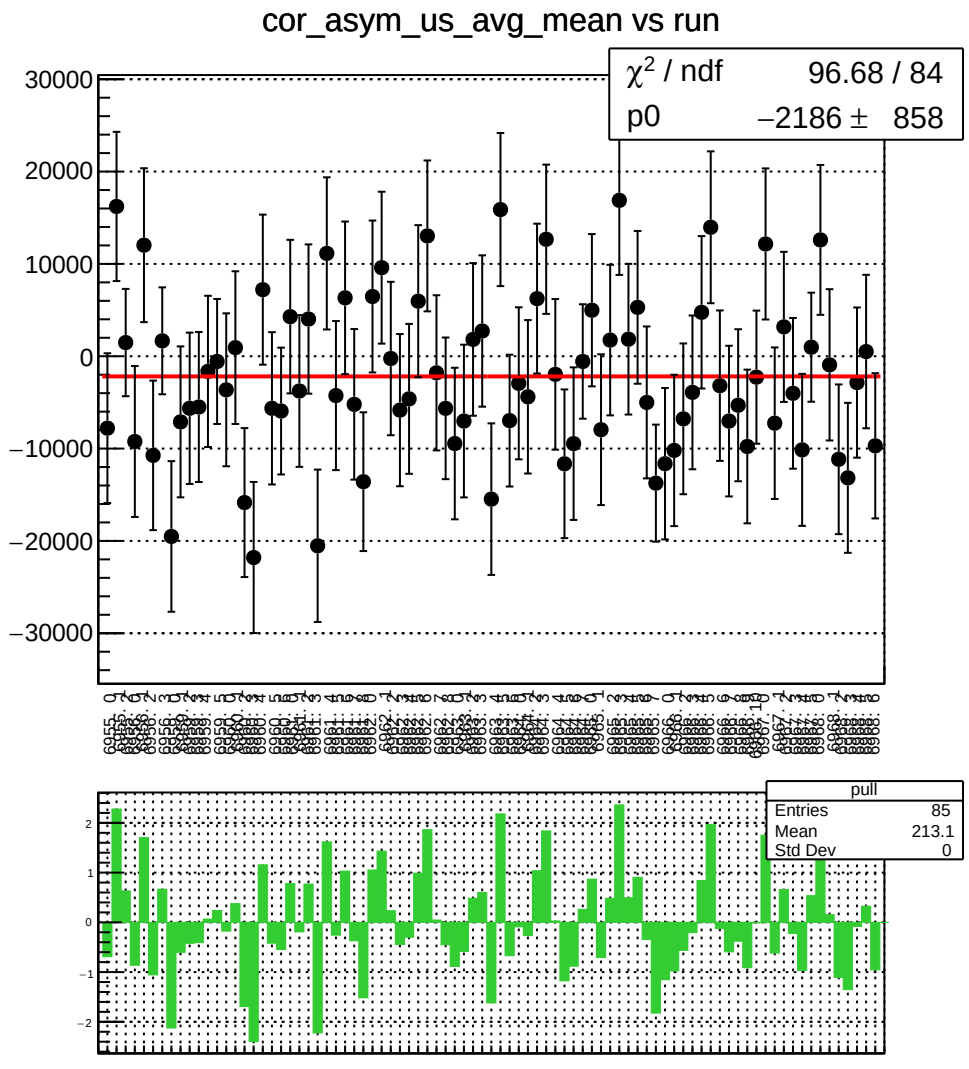

pull1D
Entries 85
Mean 0.001324
Std Dev 1.066

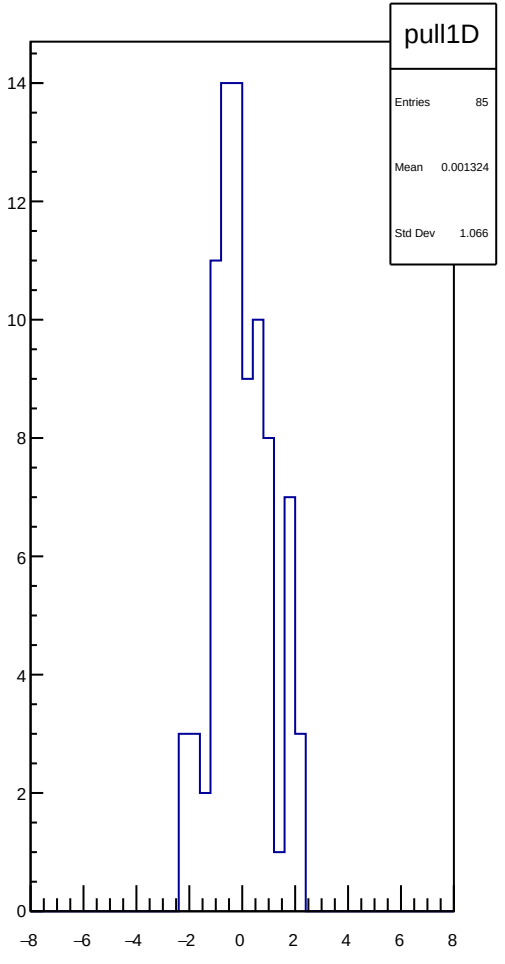

reg_asym_us_avg_rms vs run
$\chi^2$ / ndf 132 / 84
p0 777.5 ± 0.6067
800
790
780
770
760

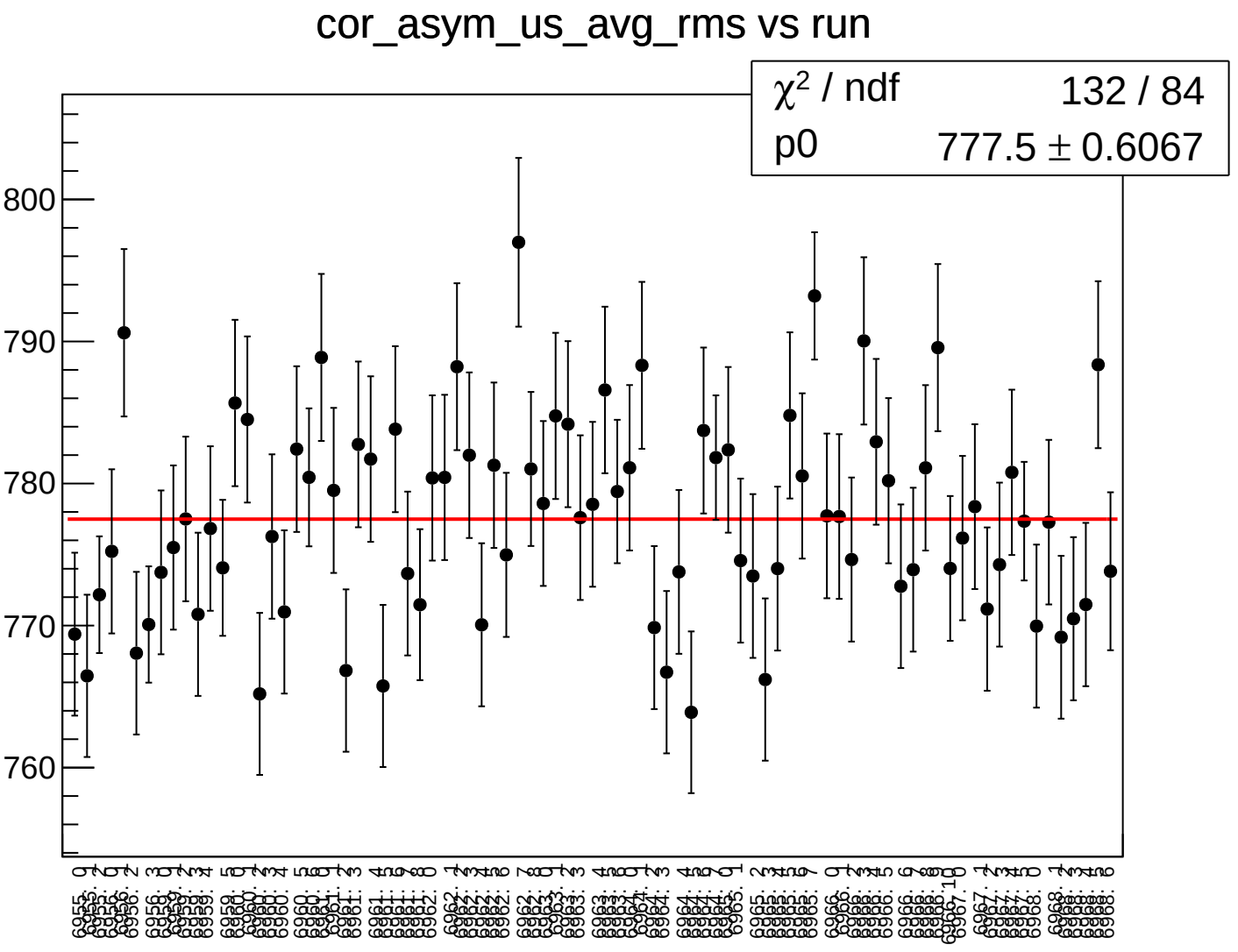

asym_us_avg_reg_correction_mean vs run
χ² / ndf 100.6 / 84
p0 −802.1± 1866
pull
Entries 85
Mean 33.33
Std Dev 67.34

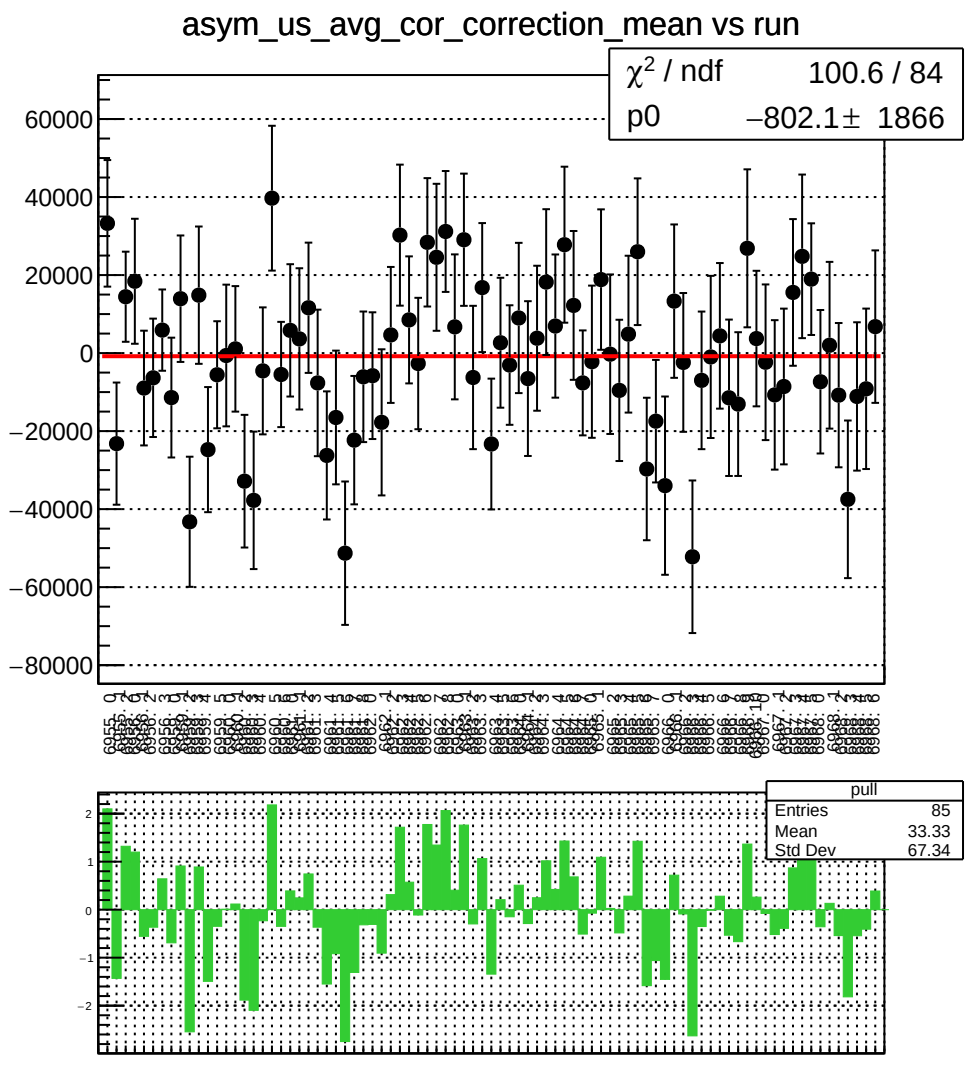

pull1D
Entries 85
Mean −0.01112
Std Dev 1.088

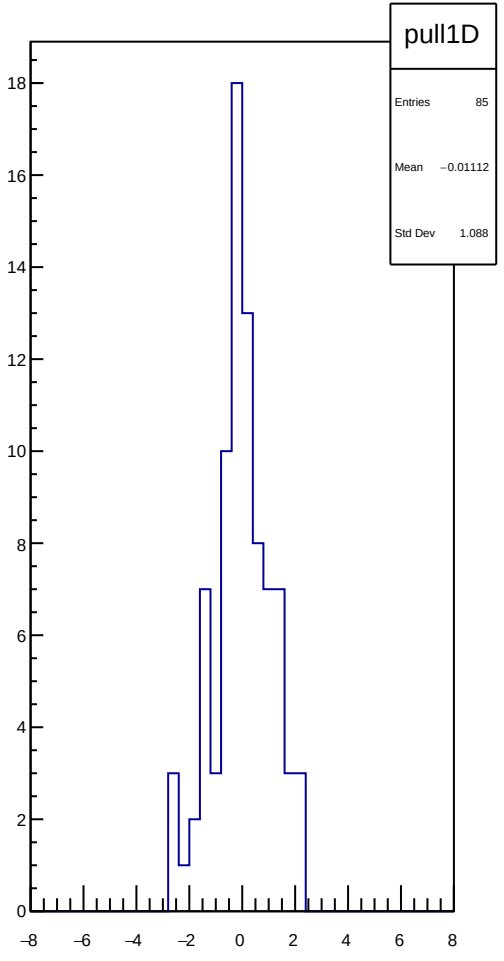

asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.462e+04 / 84
p0 1684 ± 1.32
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

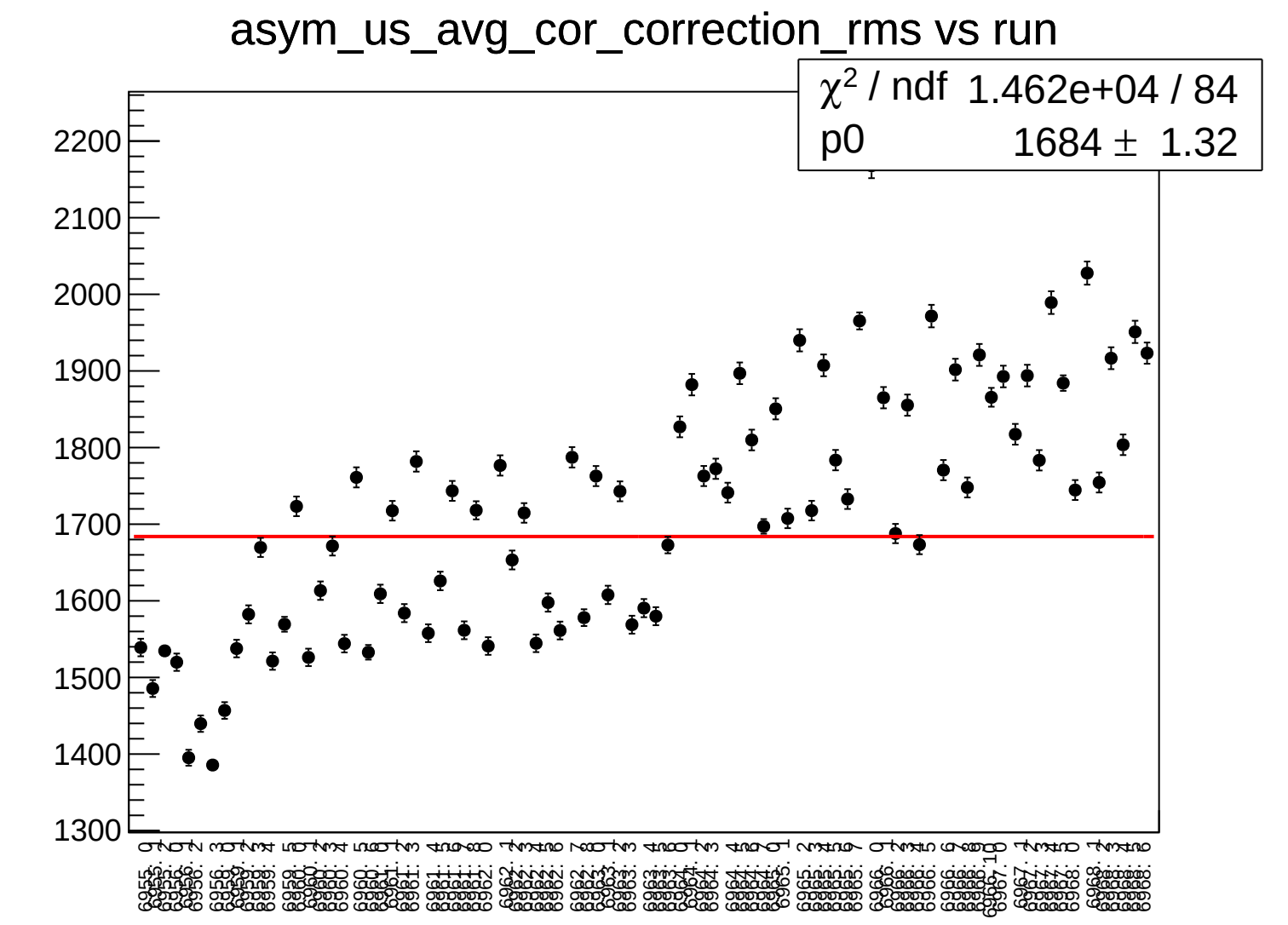

cor_asym_us_avg_mean vs run
χ² / ndf 96.68 / 84
p0 −2186 ± 858
pull
Entries 85
Mean 213.1
Std Dev 0

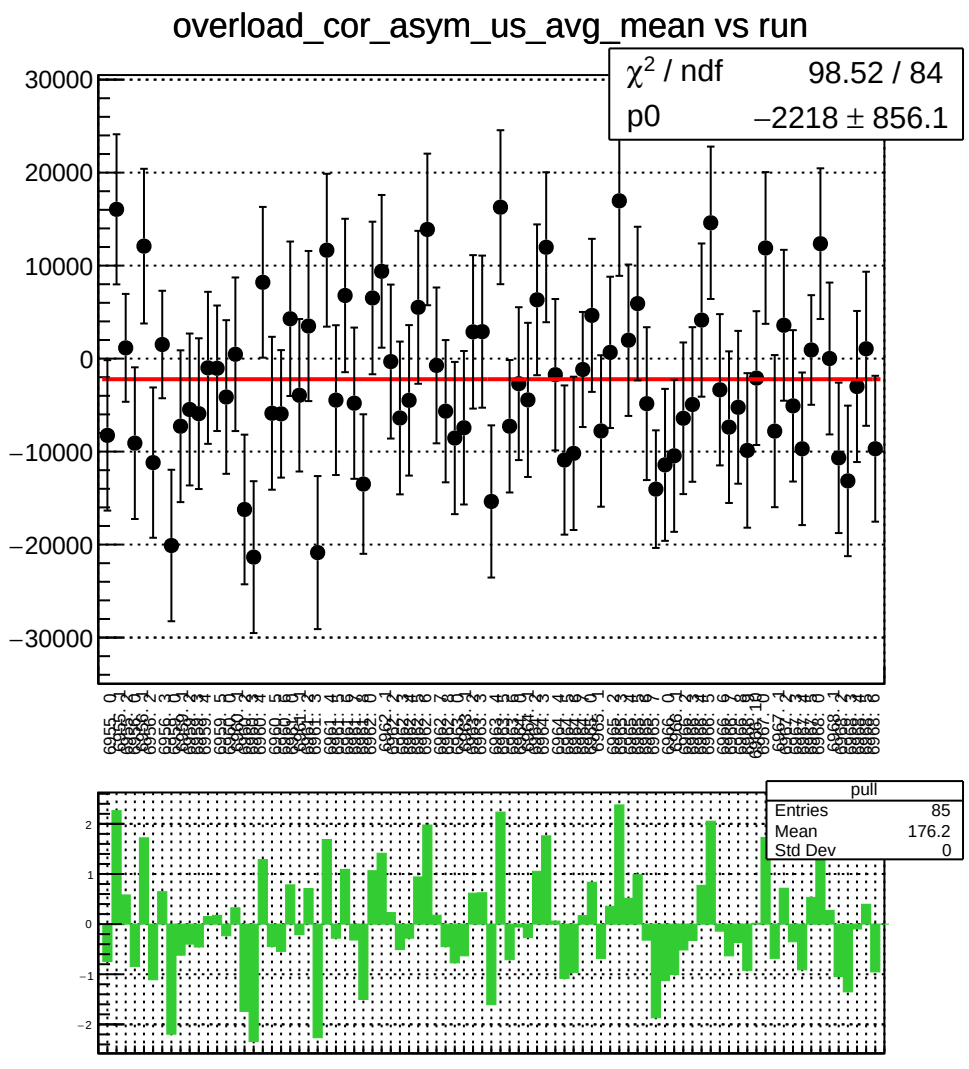

pull1D
Entries 85
Mean 0.001324
Std Dev 1.066

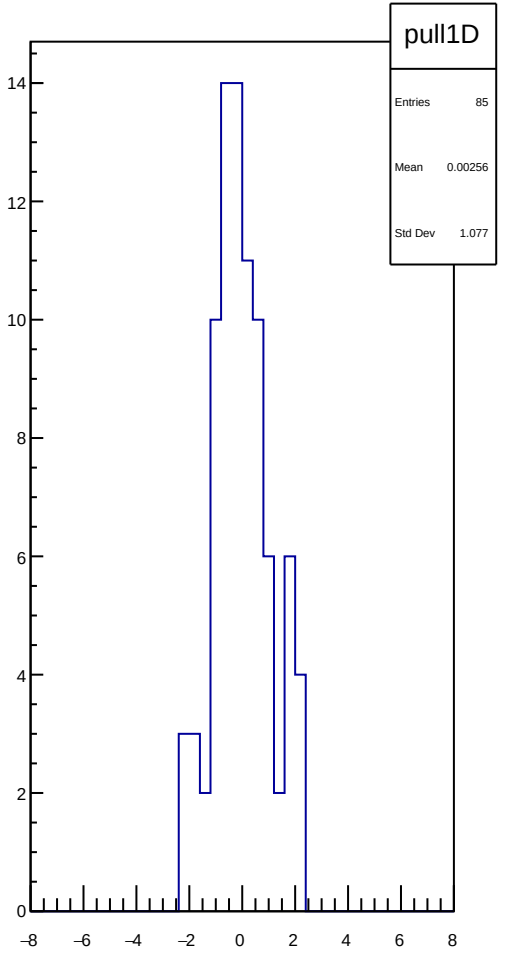

cor_asym_us_avg_rms vs run
$\chi^2$ / ndf 132 / 84
p0 777.5 ± 0.6067
800
790
780
770
760

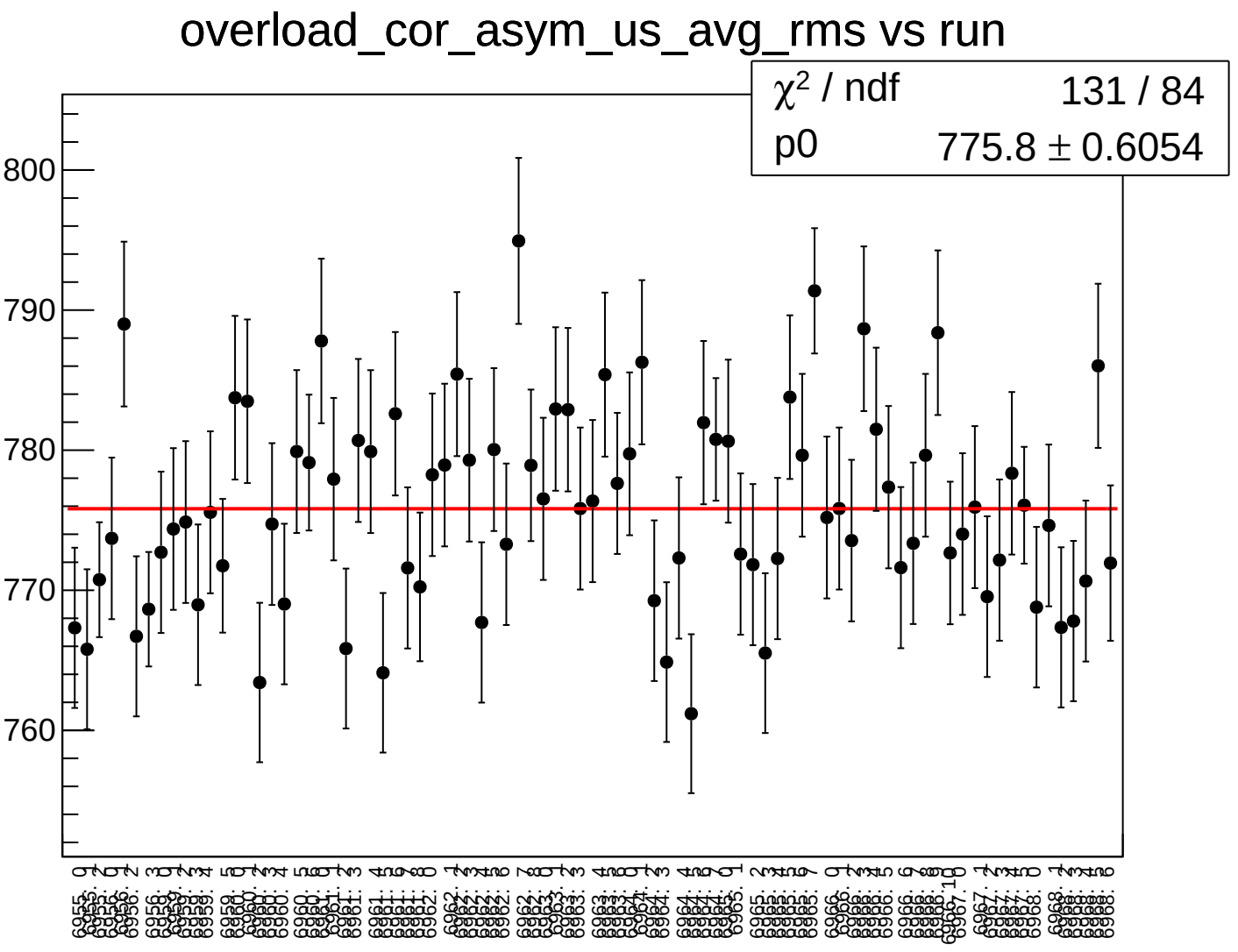

asym_us_avg_cor_correction_mean vs run
χ² / ndf 100.6 / 84
p0 −802.1± 1866
pull
Entries 85
Mean 33.33
Std Dev 67.34

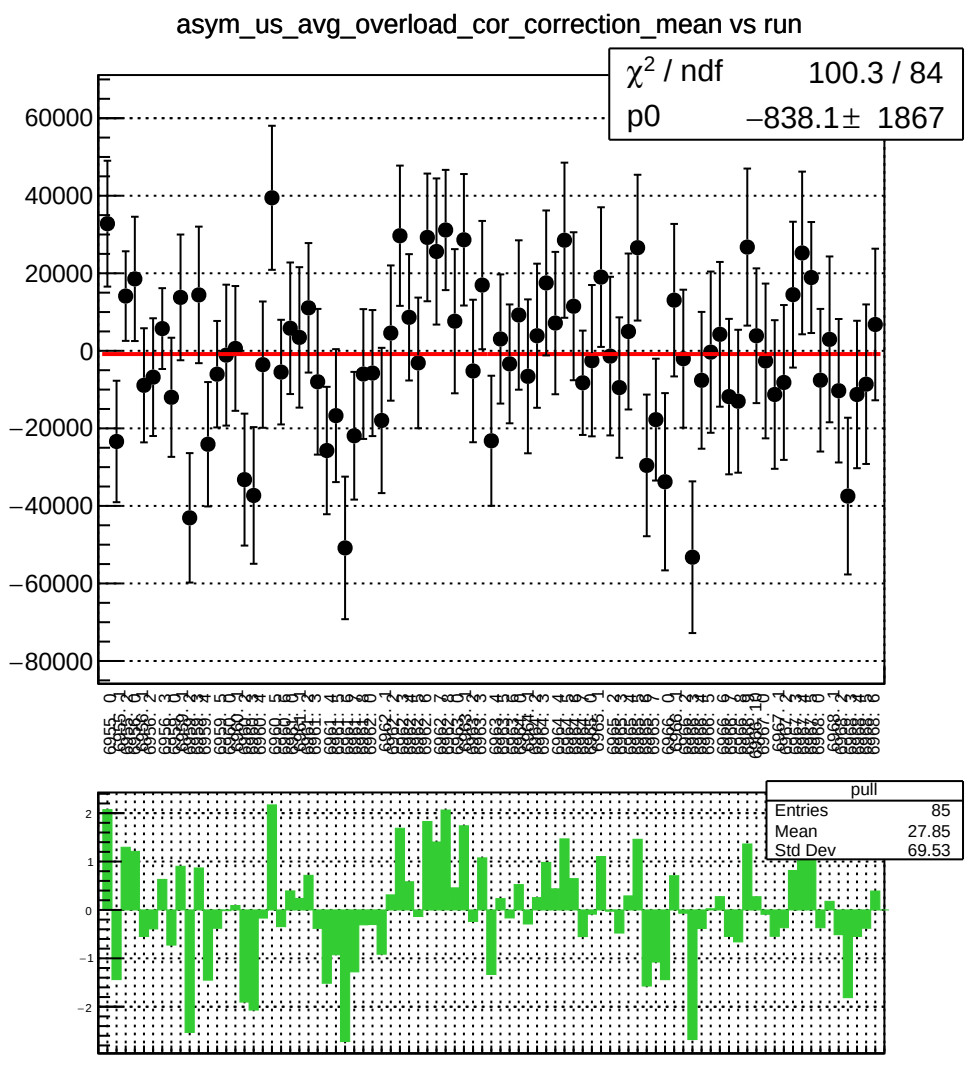

pull1D
Entries 85
Mean −0.01112
Std Dev 1.088

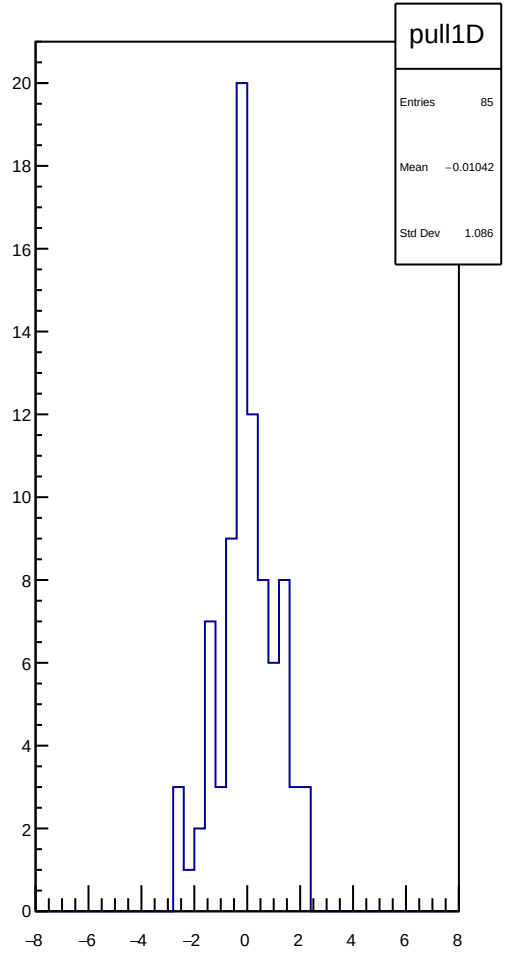

asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.462e+04 / 84
p0 1684 ± 1.32
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

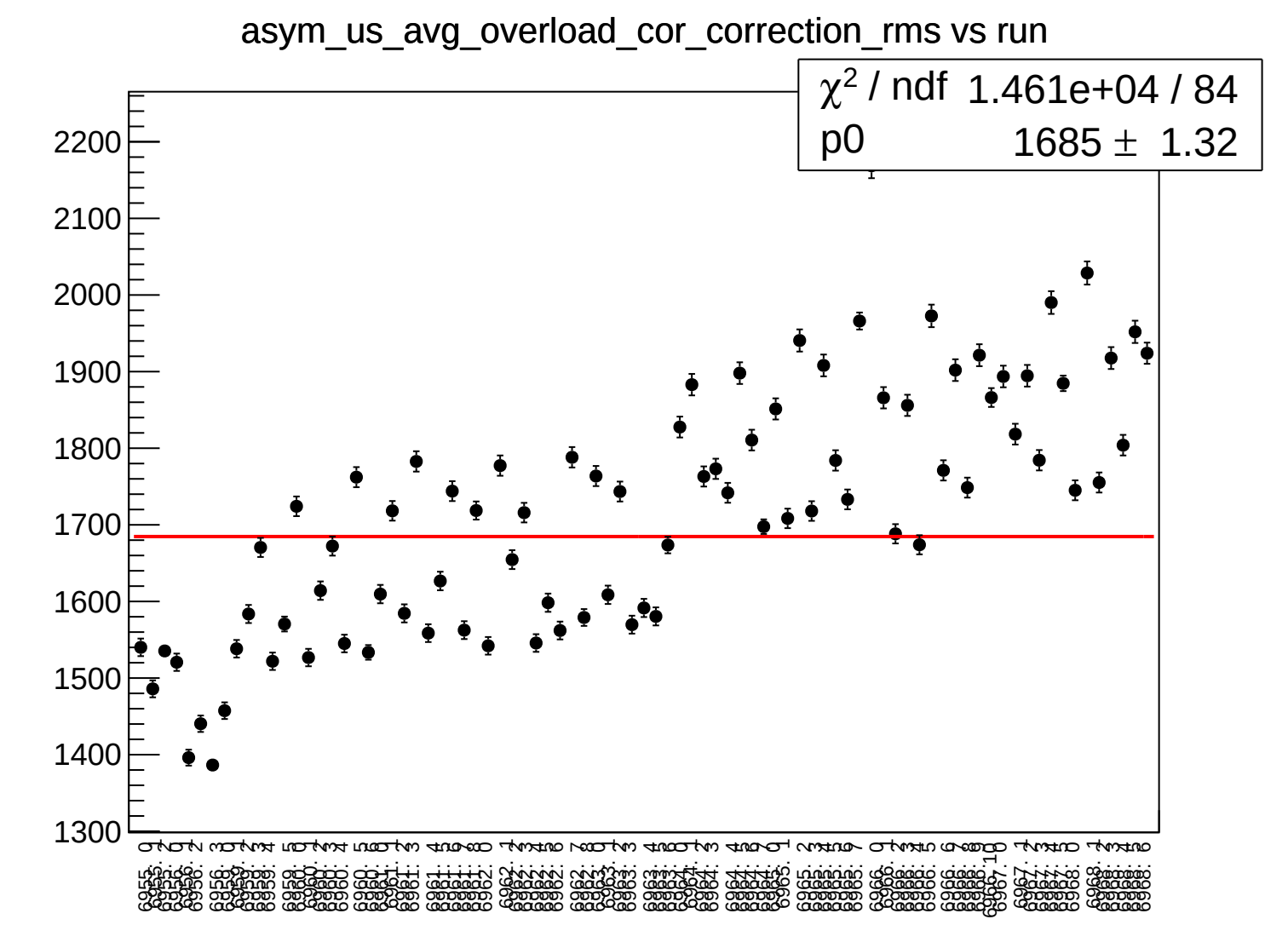

overload_cor_asym_us_avg_mean vs run
χ² / ndf 98.52 / 84
p0 −2218 ± 856.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 176.2
Std Dev 0
2
1
0
−1
−2

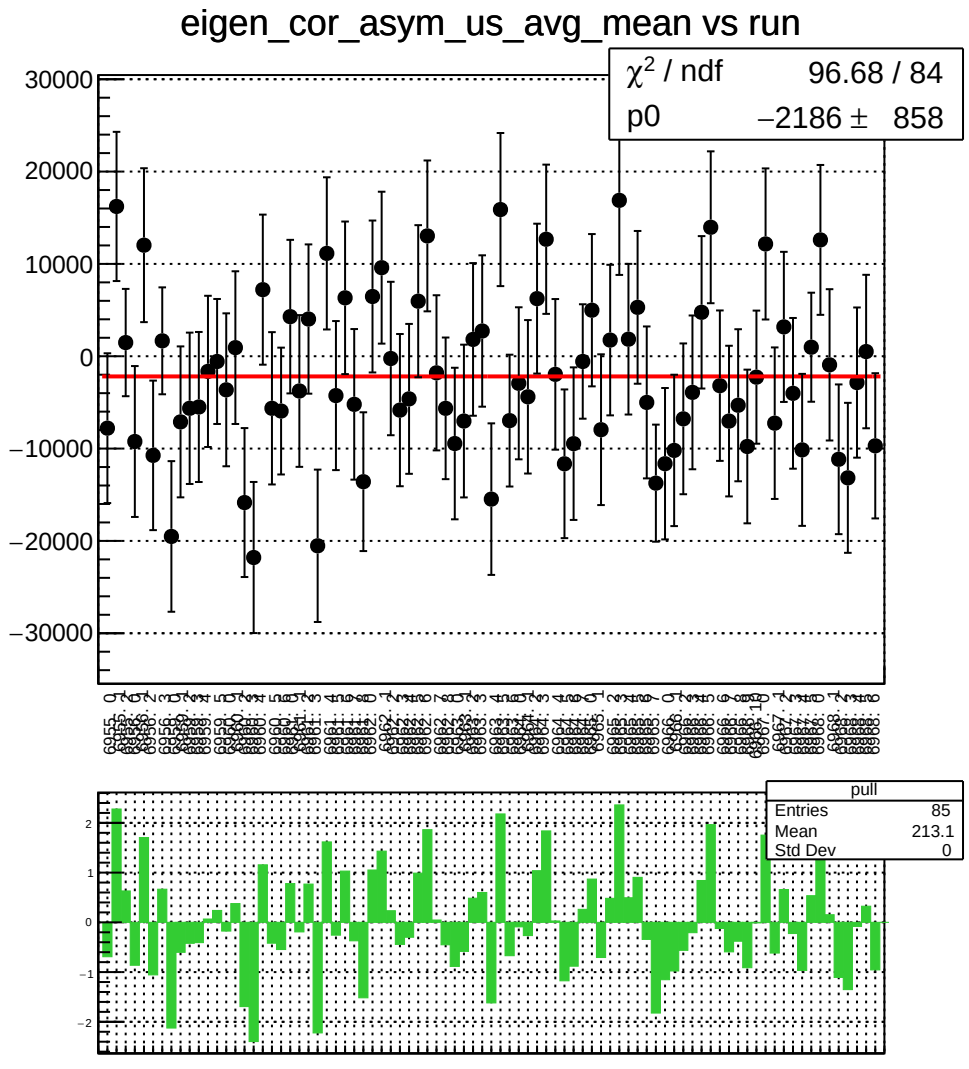

pull1D
Entries 85
Mean 0.00256
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

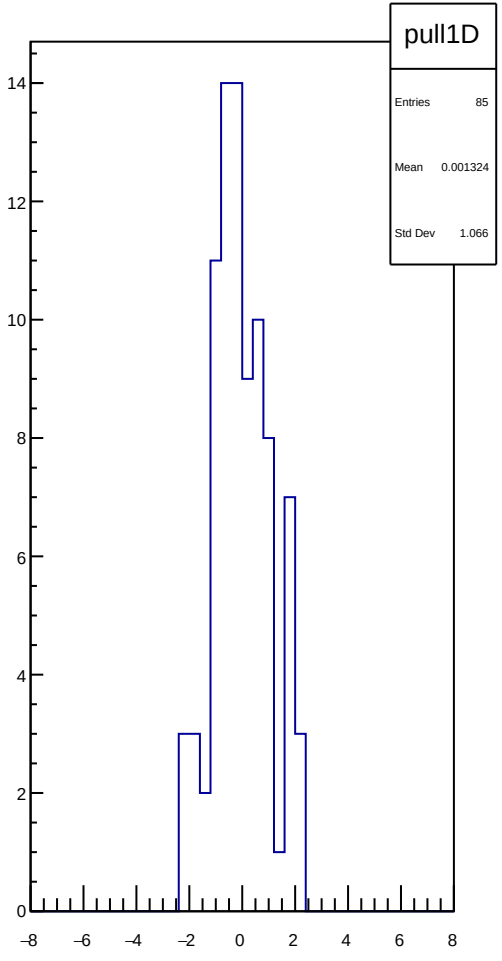

overload_cor_asym_us_avg_rms vs run
χ² / ndf 131 / 84
p0 775.8 ± 0.6054
800
790
780
770
760

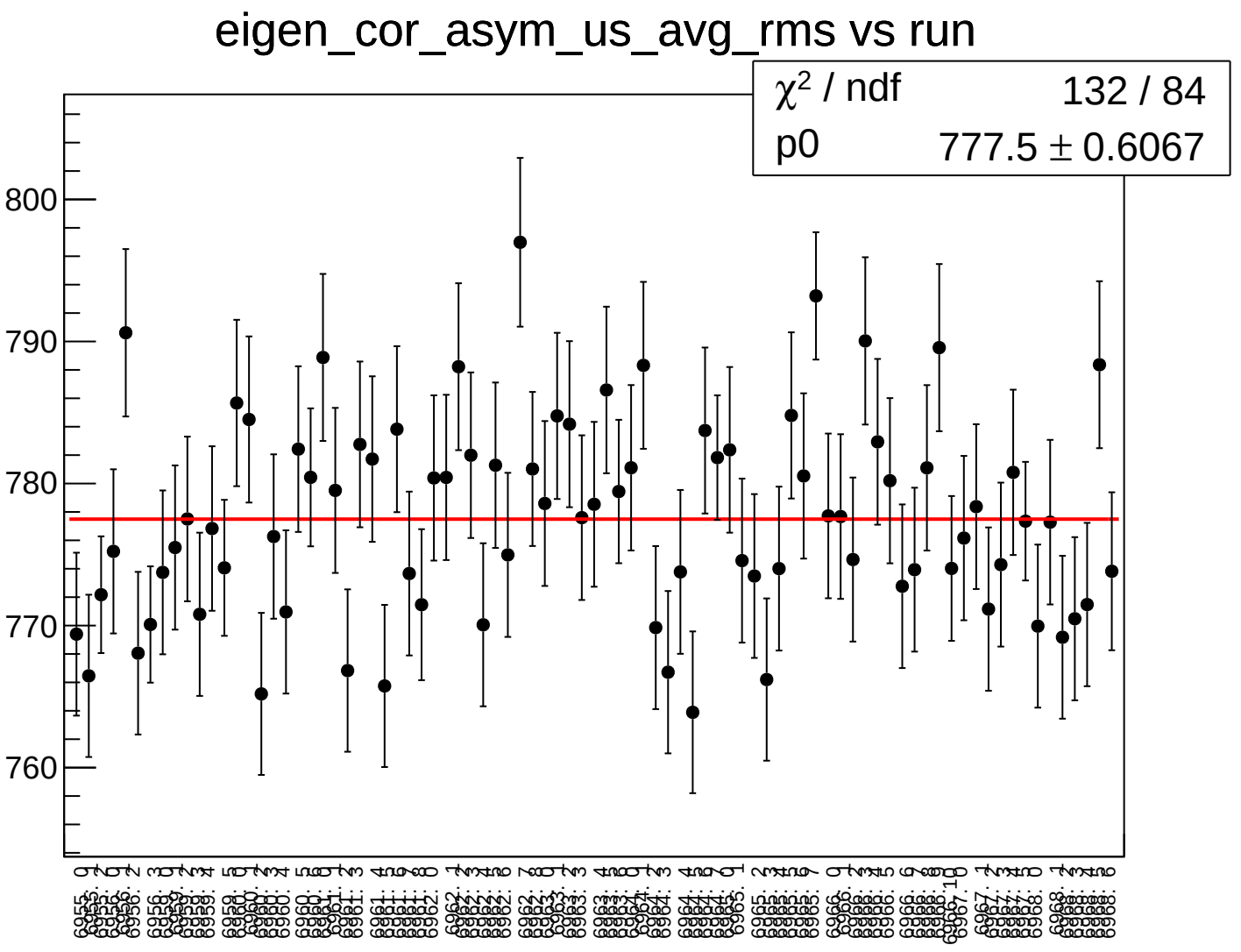

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 100.3 / 84
p0 −838.1± 1867
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 27.85
Std Dev 69.53
2
1
0
−1
−2

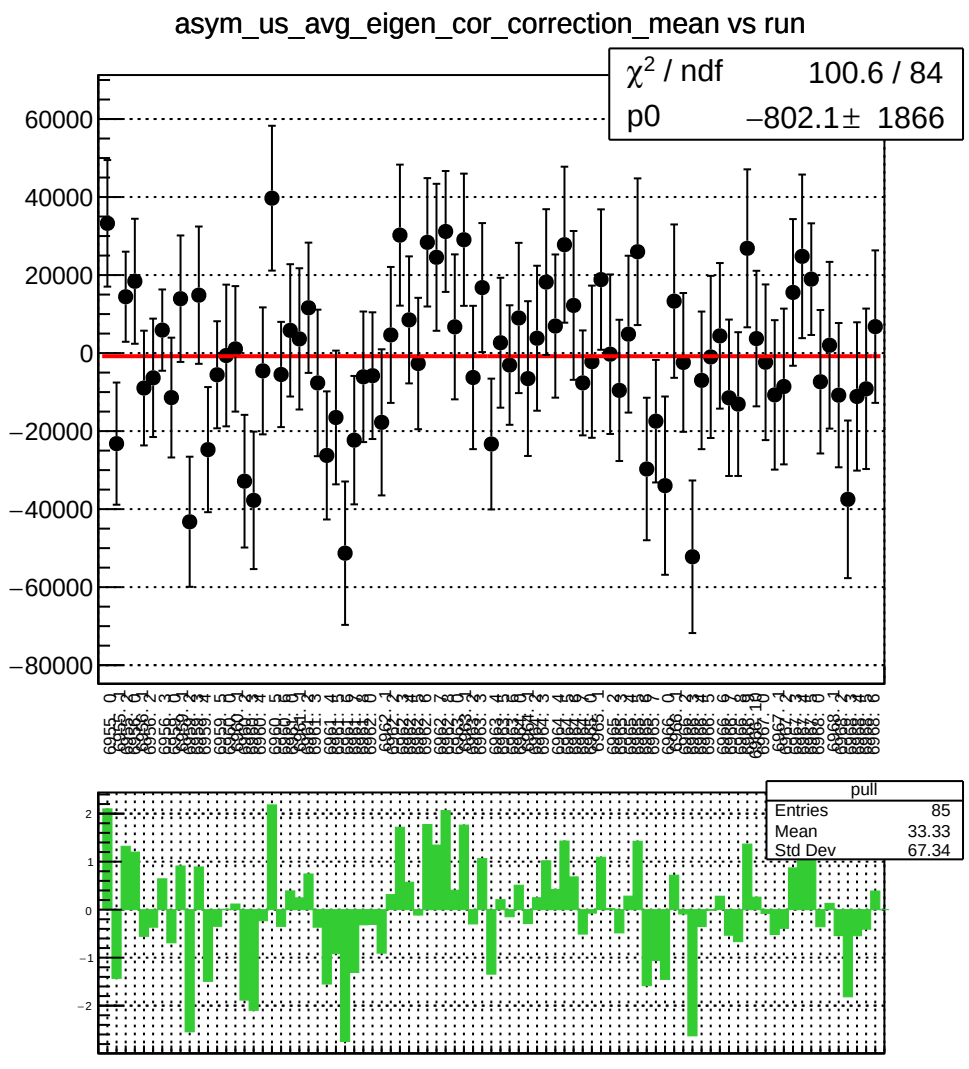

pull1D
Entries 85
Mean −0.01042
Std Dev 1.086
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

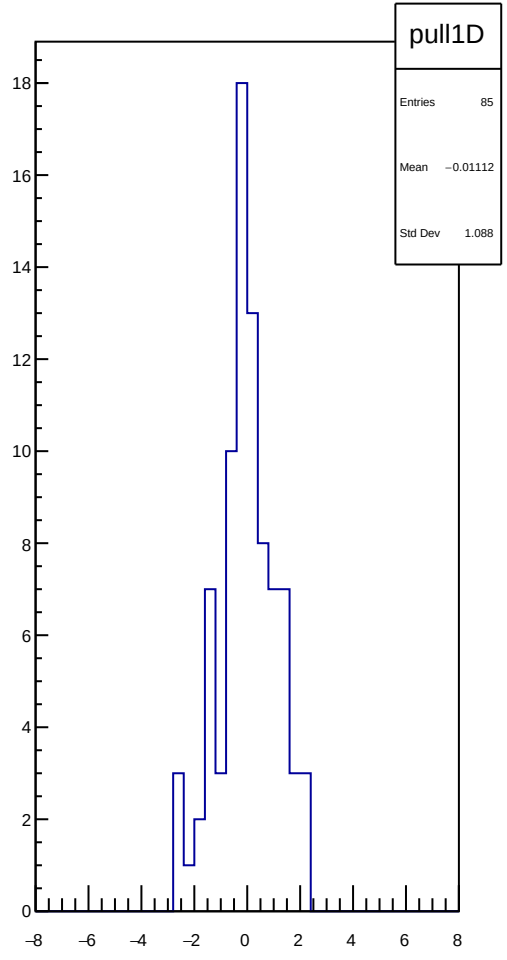

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.461e+04 / 84
p0 1685 ± 1.32
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

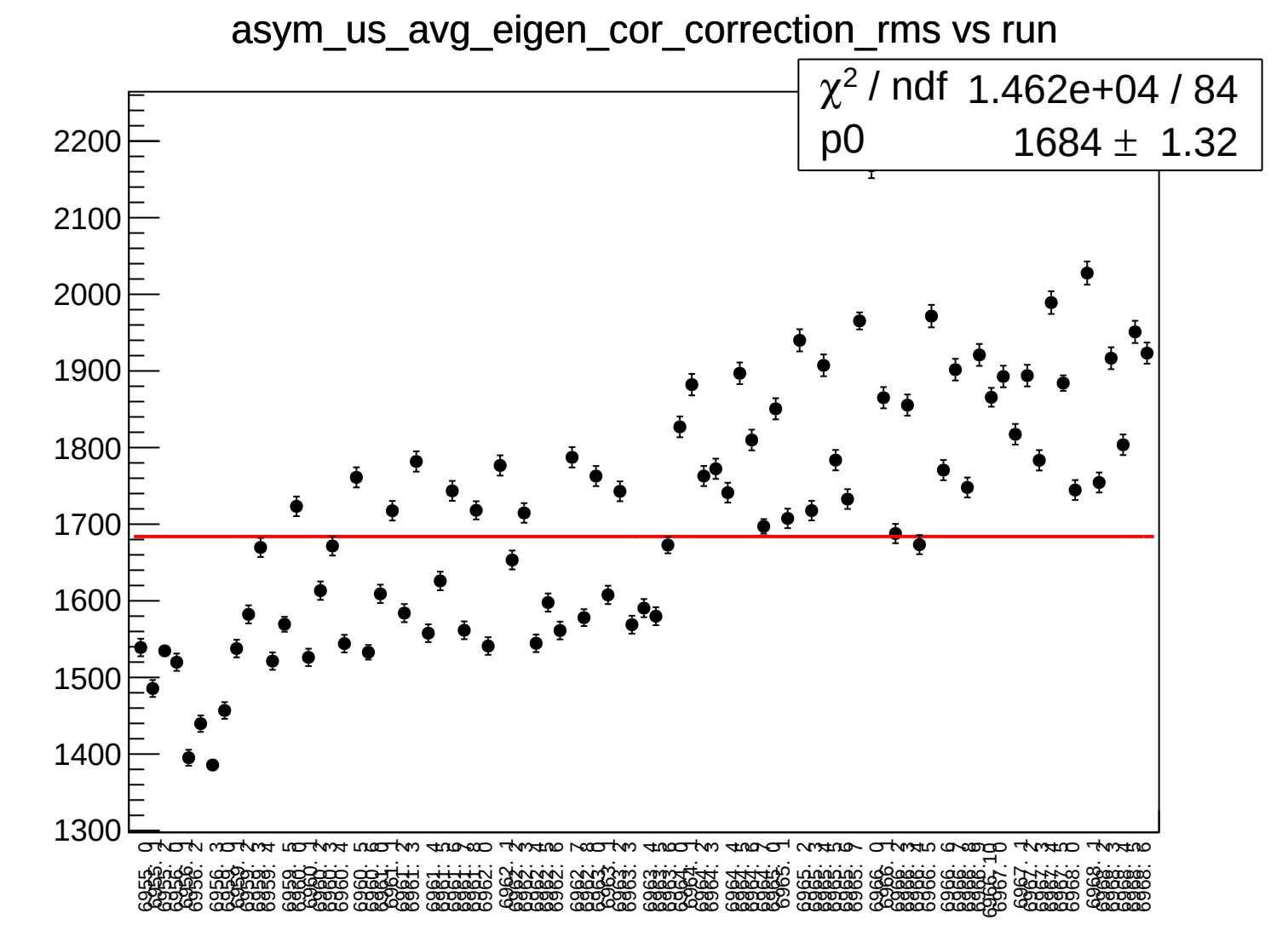

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 96.68 / 84
p0 −2186 ± 858
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 213.1
Std Dev 0
2
1
0
−1
−2

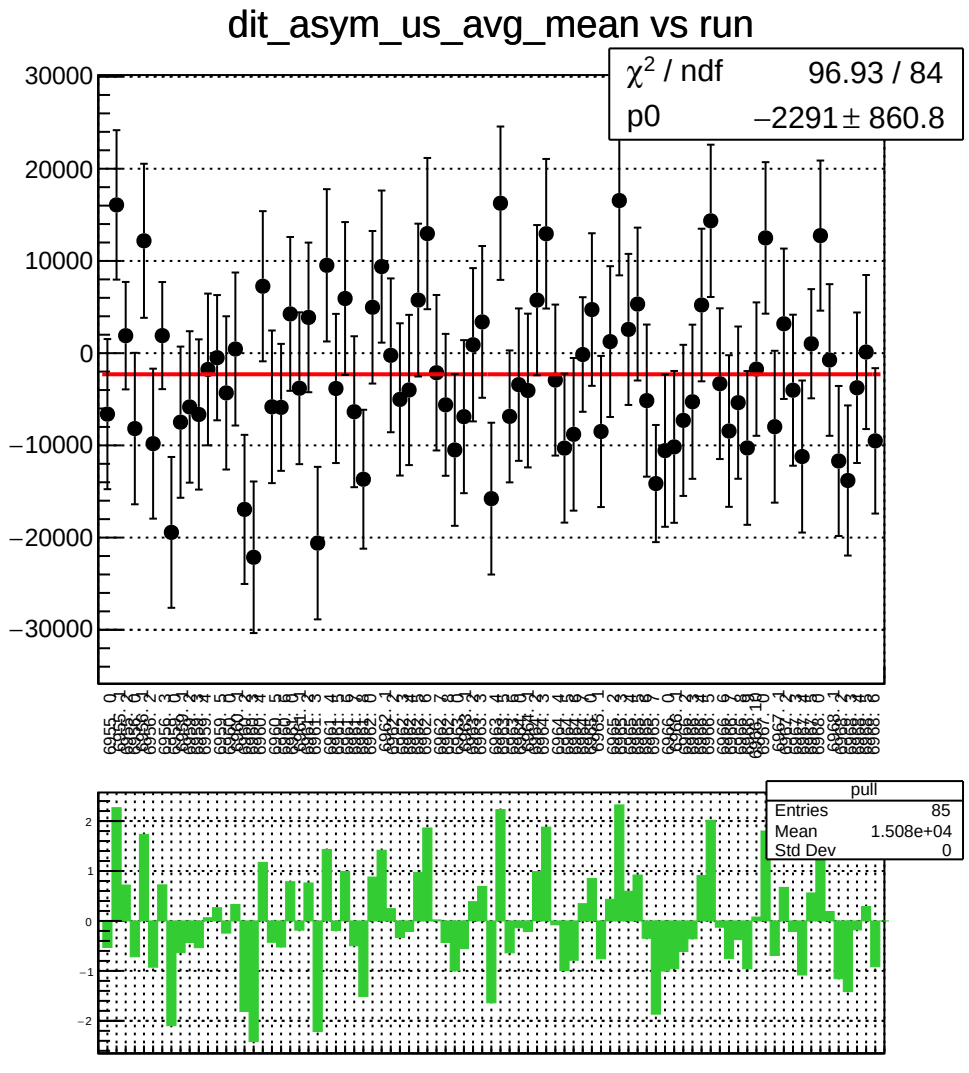

pull1D
Entries 85
Mean 0.001324
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

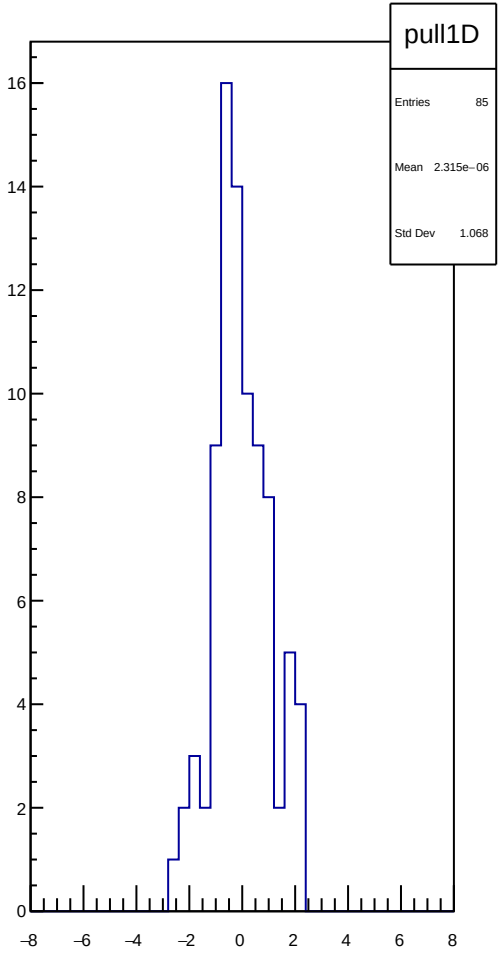

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 132 / 84
p0 777.5 ± 0.6067
800
790
780
770
760

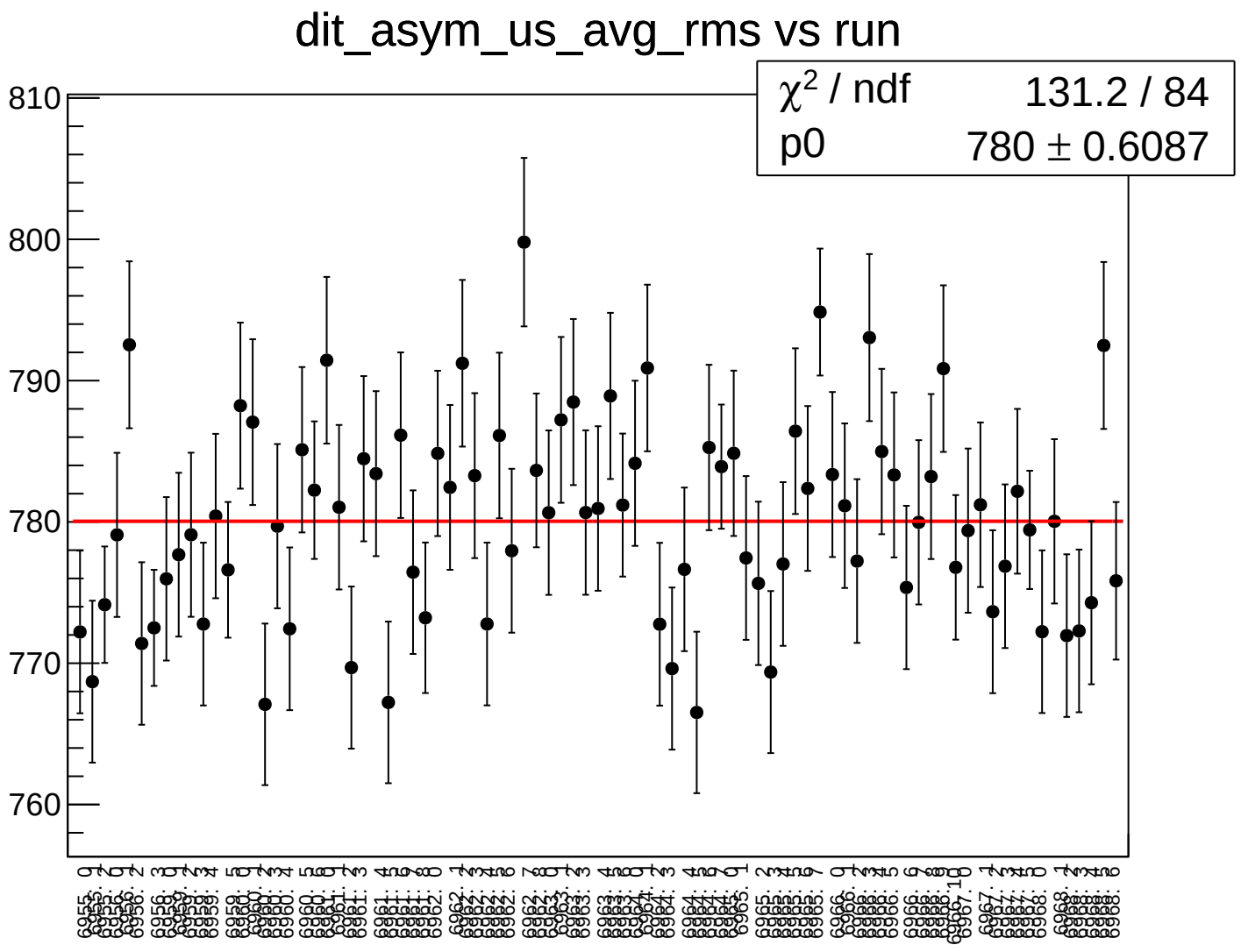

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.6 / 84
p0 −802.1± 1866
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 33.33
Std Dev 67.34
2
1
0
−1
−2

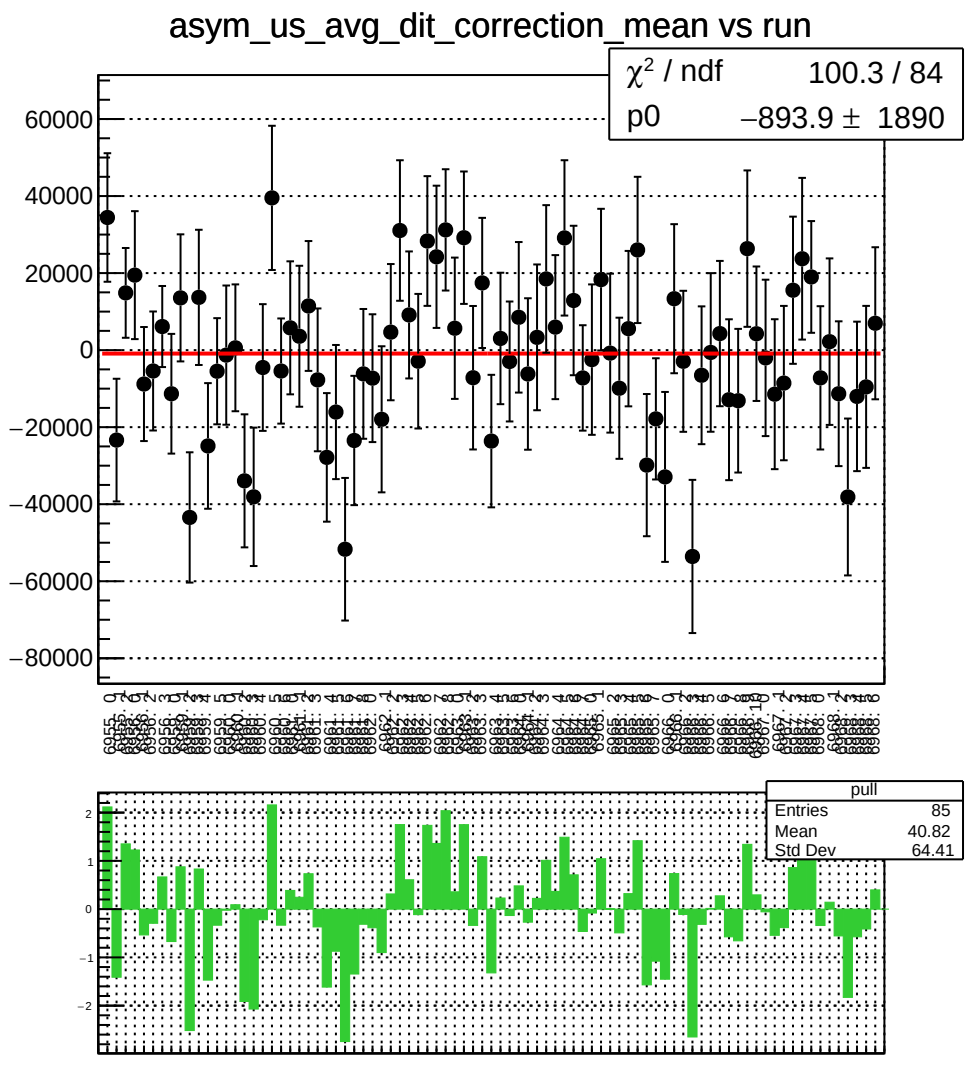

pull1D
Entries 85
Mean −0.01112
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

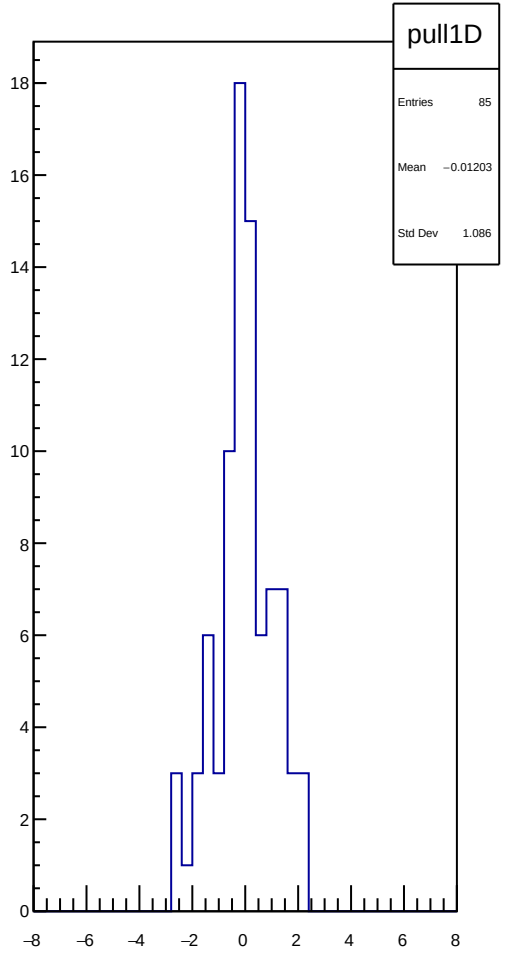

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.462e+04 / 84
p0 1684 ± 1.32
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

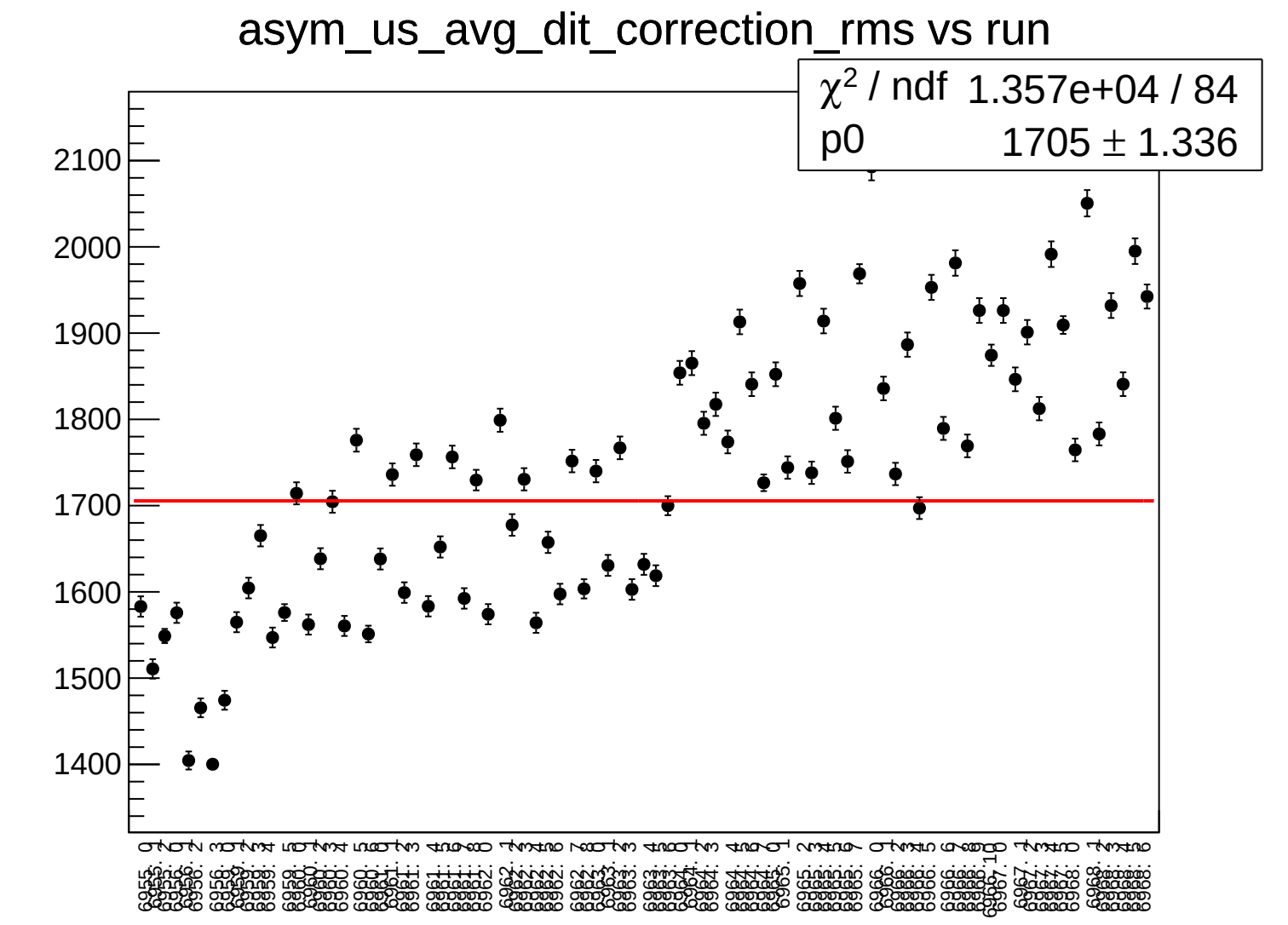

dit_asym_us_avg_mean vs run
χ² / ndf 96.93 / 84
p0 −2291 ± 860.8
pull
Entries 85
Mean 1.508e+04
Std Dev 0

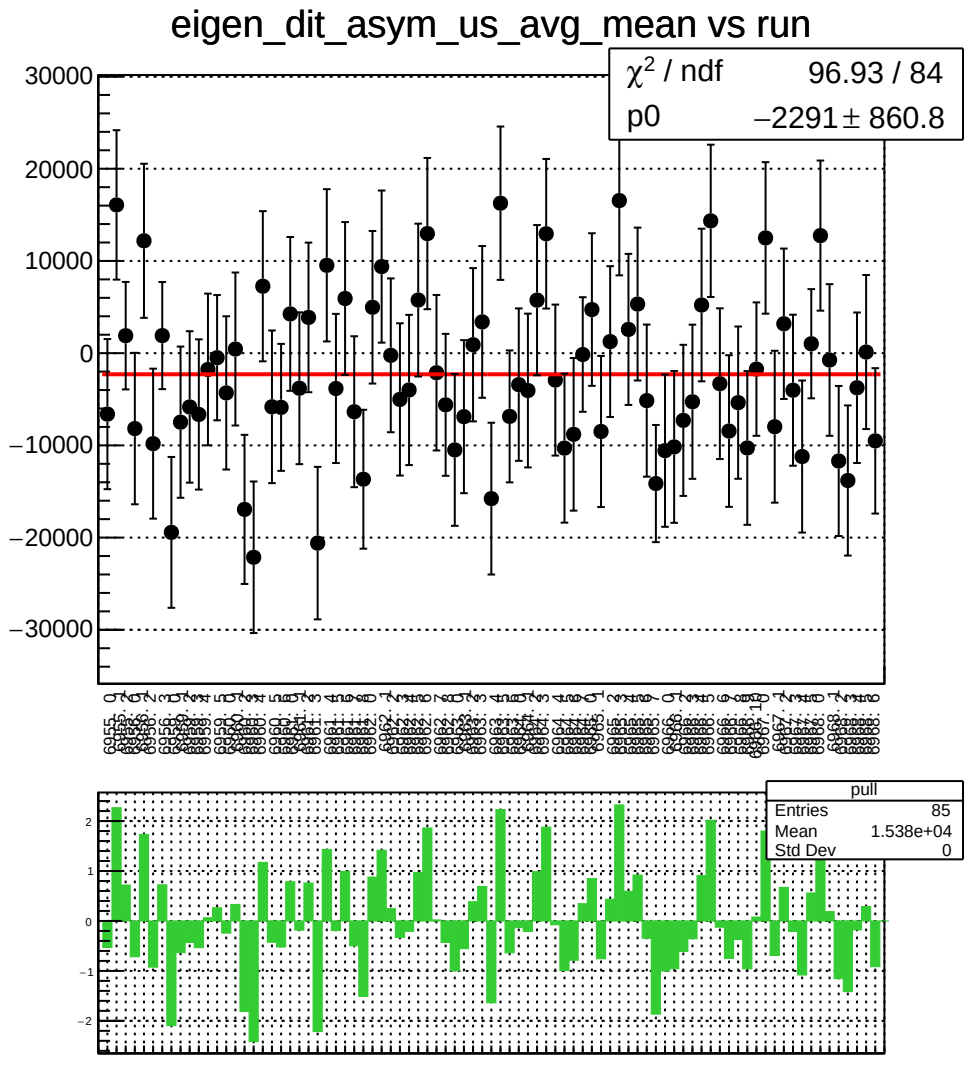

pull1D
Entries 85
Mean 2.315e−06
Std Dev 1.068

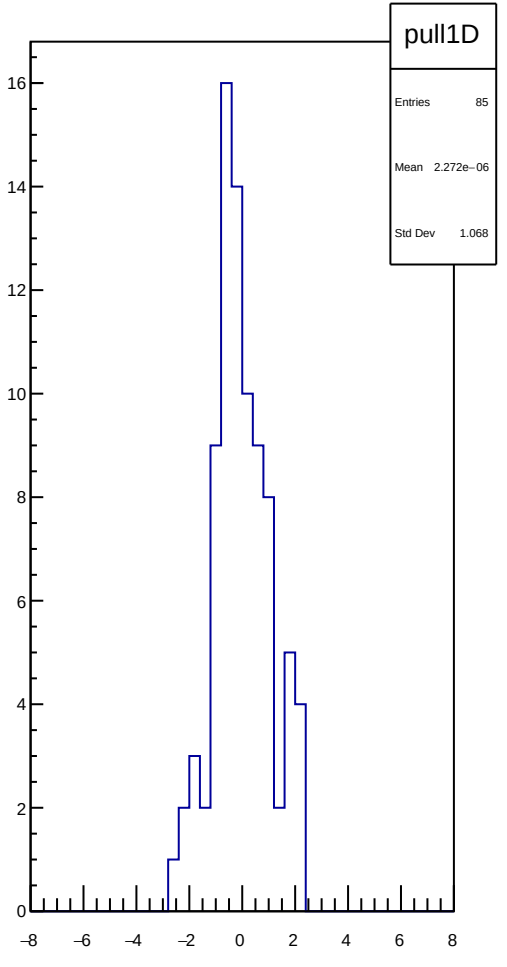

dit_asym_us_avg_rms vs run
$\chi^2$ / ndf 131.2 / 84
p0 780 ± 0.6087
810
800
790
780
770
760

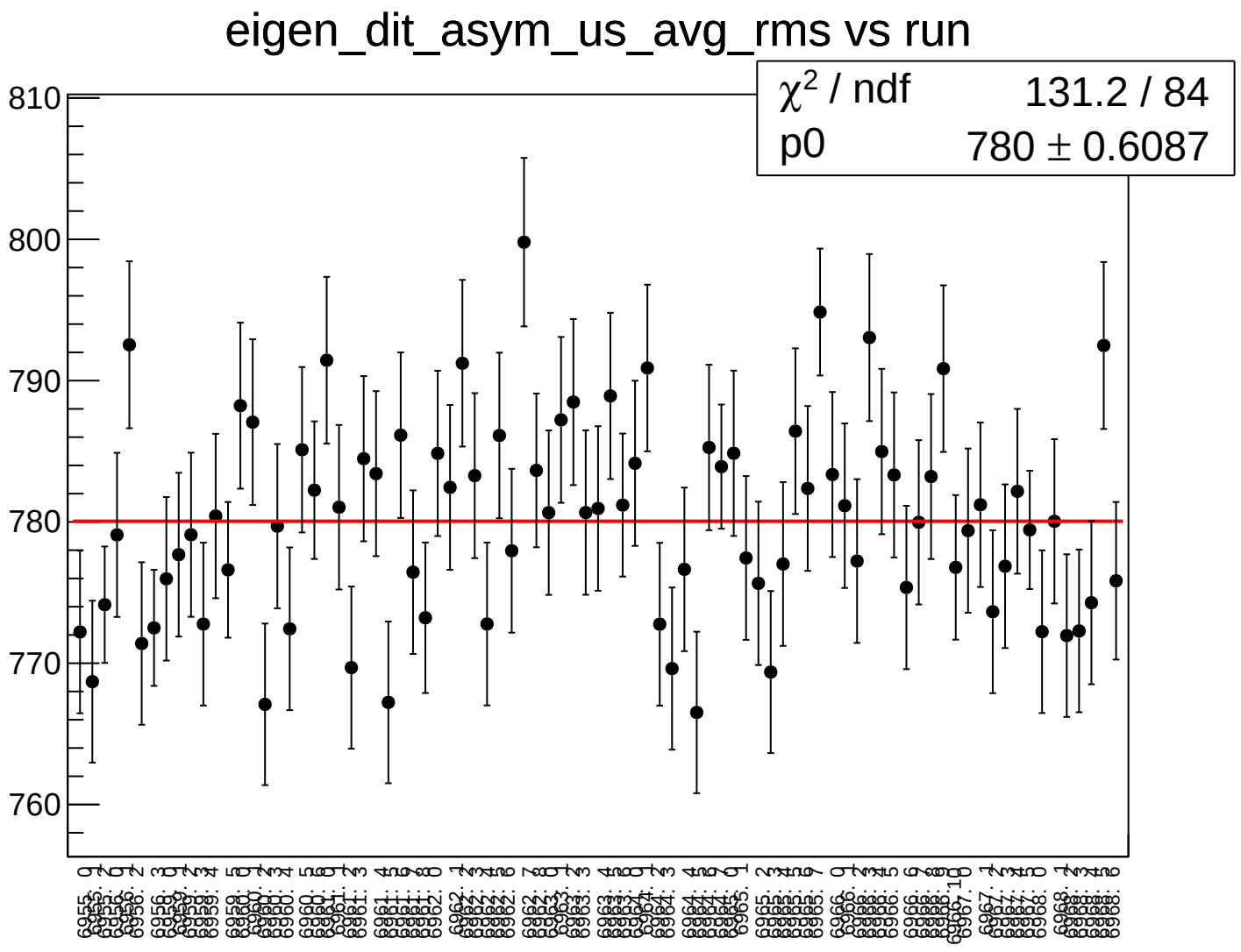

asym_us_avg_dit_correction_mean vs run
χ² / ndf 100.3 / 84
p0 −893.9 ± 1890
pull
Entries 85
Mean 40.82
Std Dev 64.41

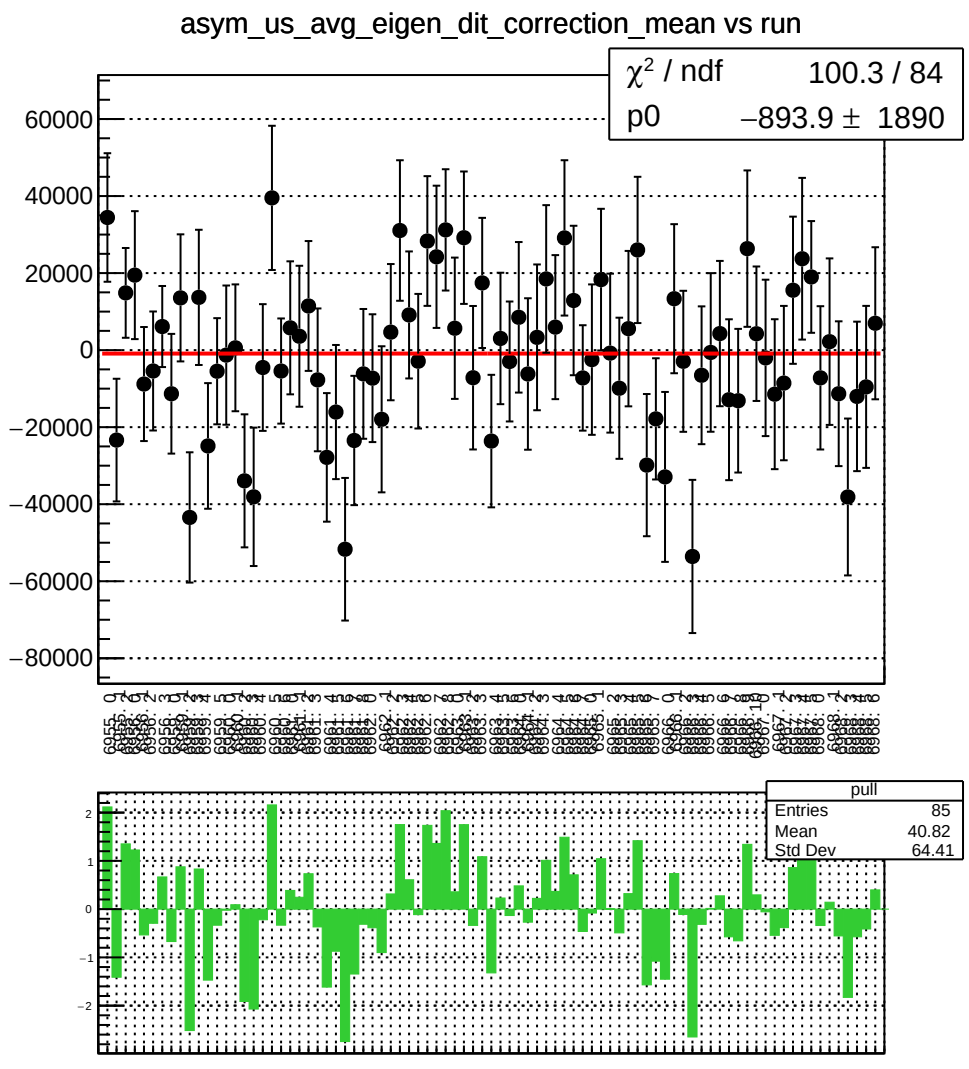

pull1D
Entries 85
Mean −0.01203
Std Dev 1.086

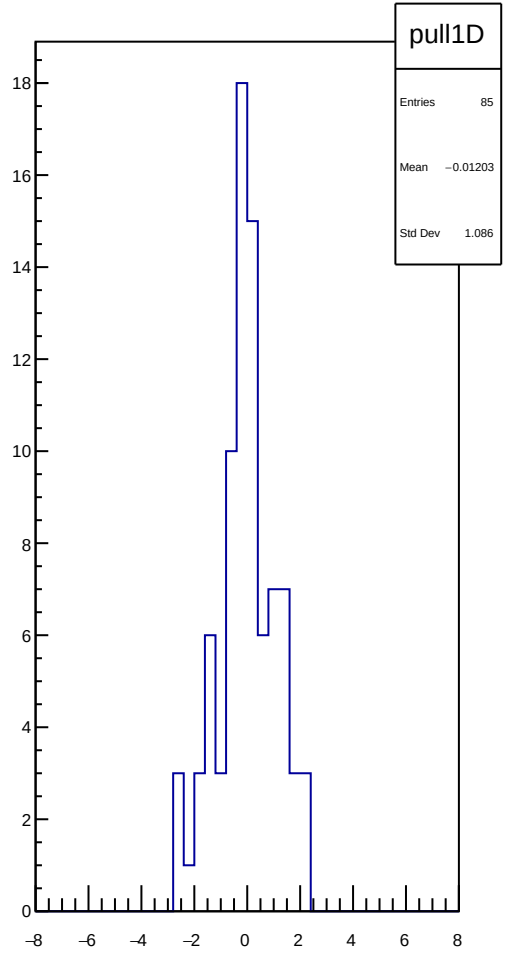

asym_us_avg_dit_correction_rms vs run
χ² / ndf 1.357e+04 / 84
p0 1705 ± 1.336
2100
2000
1900
1800
1700
1600
1500
1400

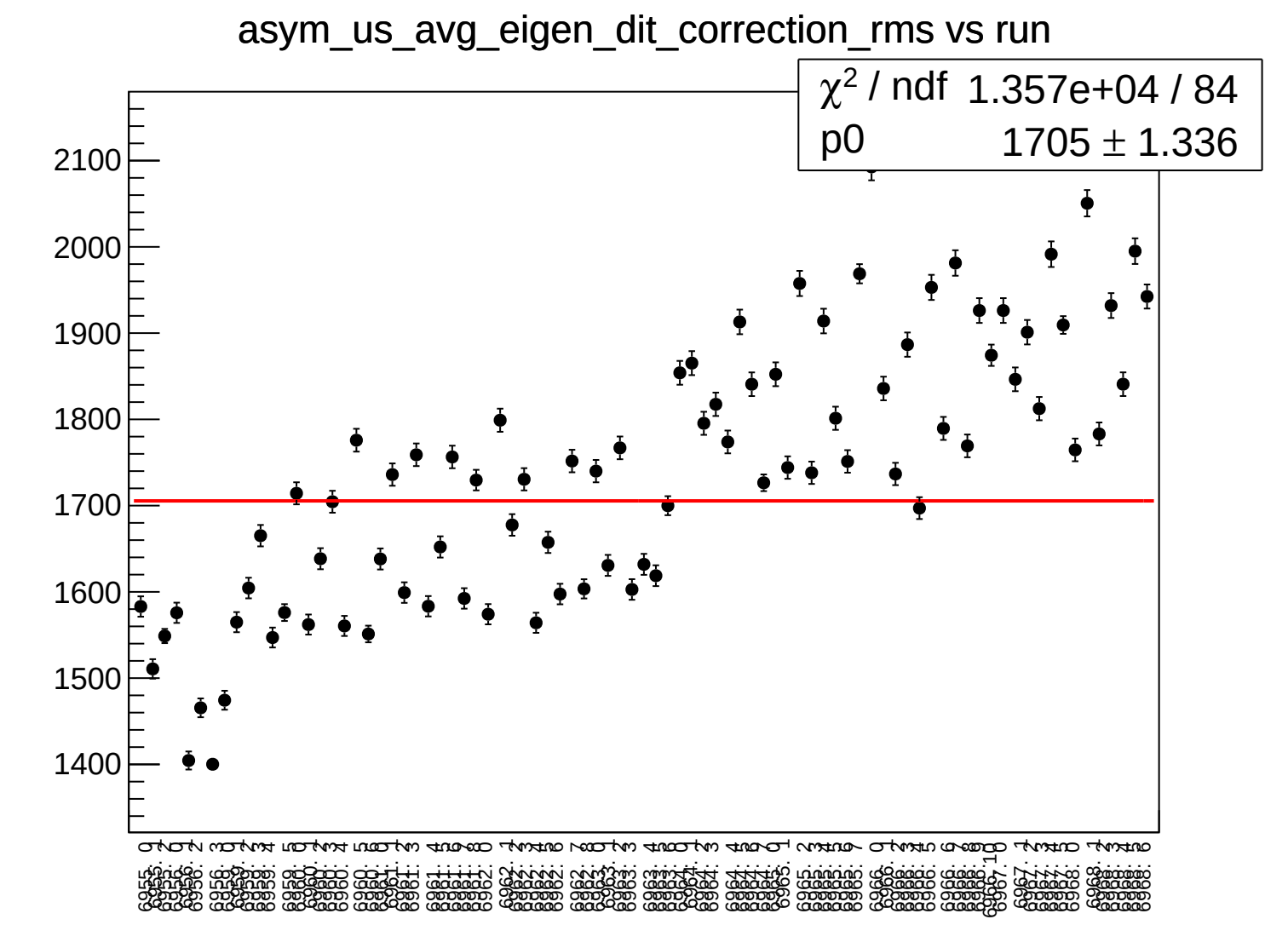

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 96.93 / 84
p0 −2291 ± 860.8
pull
Entries 85
Mean 1.538e+04
Std Dev 0

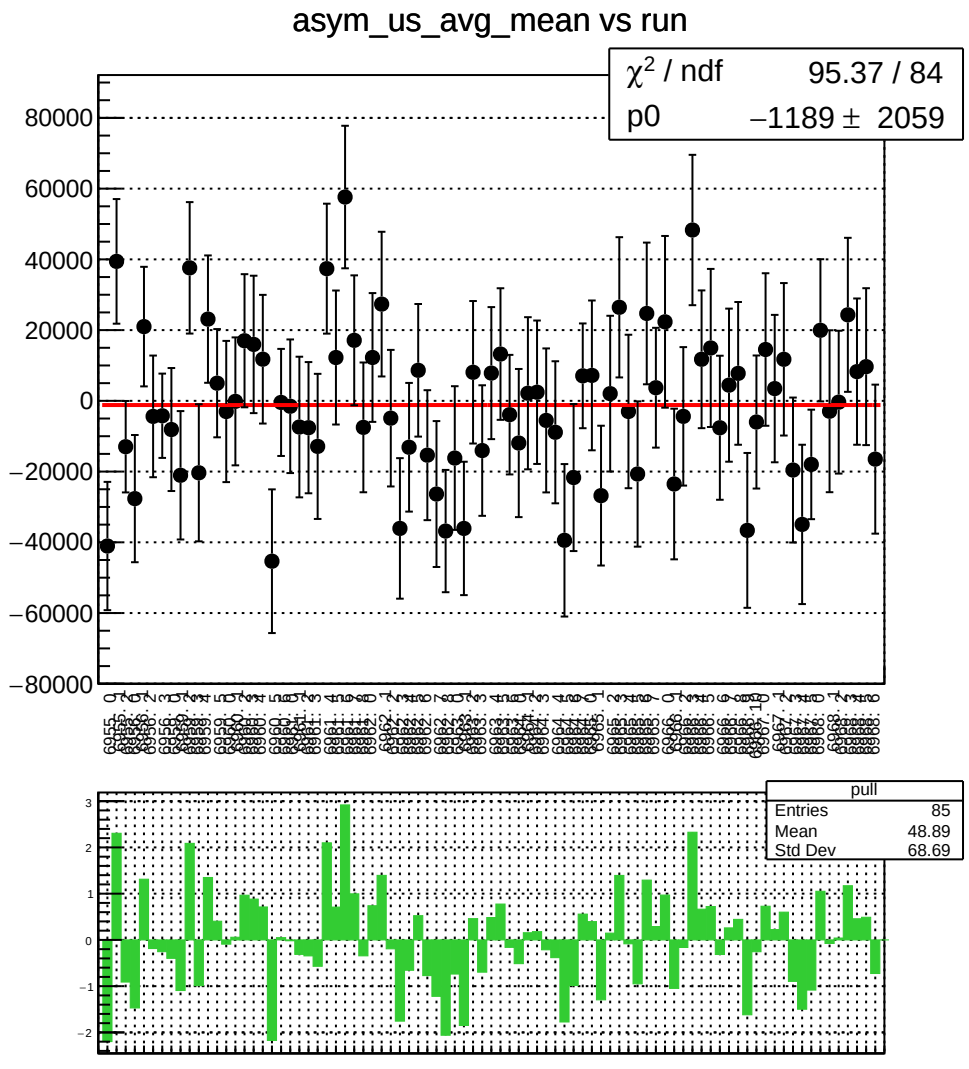

pull1D
Entries 85
Mean 2.272e−06
Std Dev 1.068

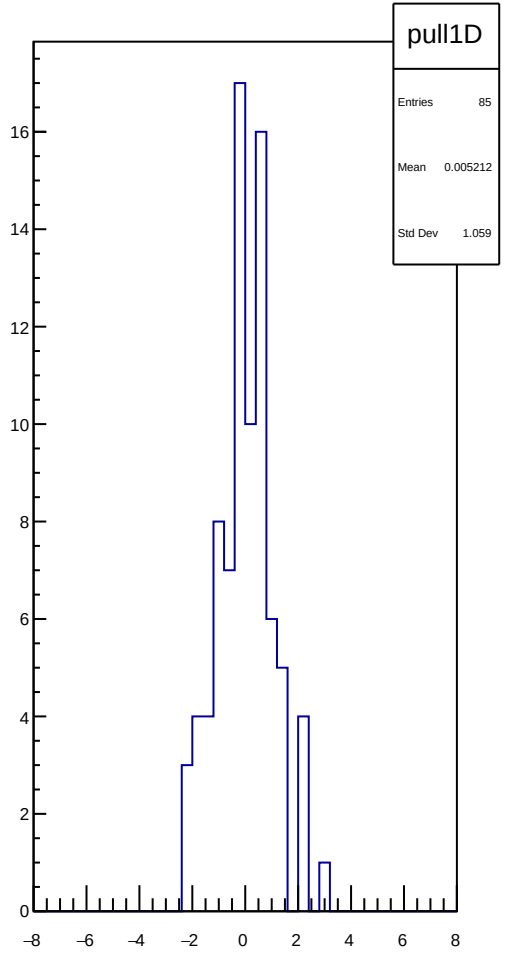

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 131.2 / 84
p0 780 ± 0.6087
810
800
790
780
770
760

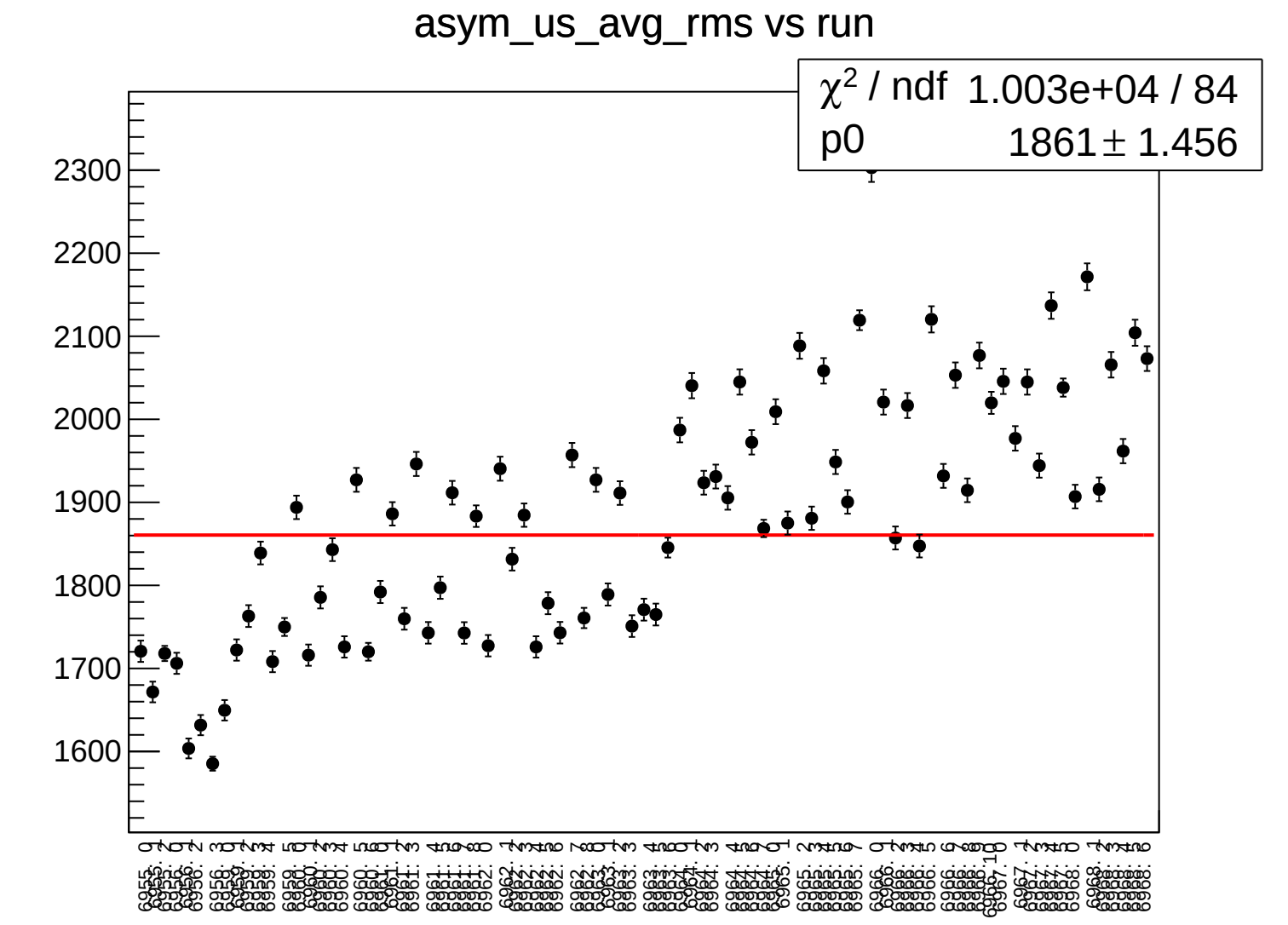

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.3 / 84
p0 −893.9 ± 1890
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 40.82
Std Dev 64.41
2
1
0
−1
−2

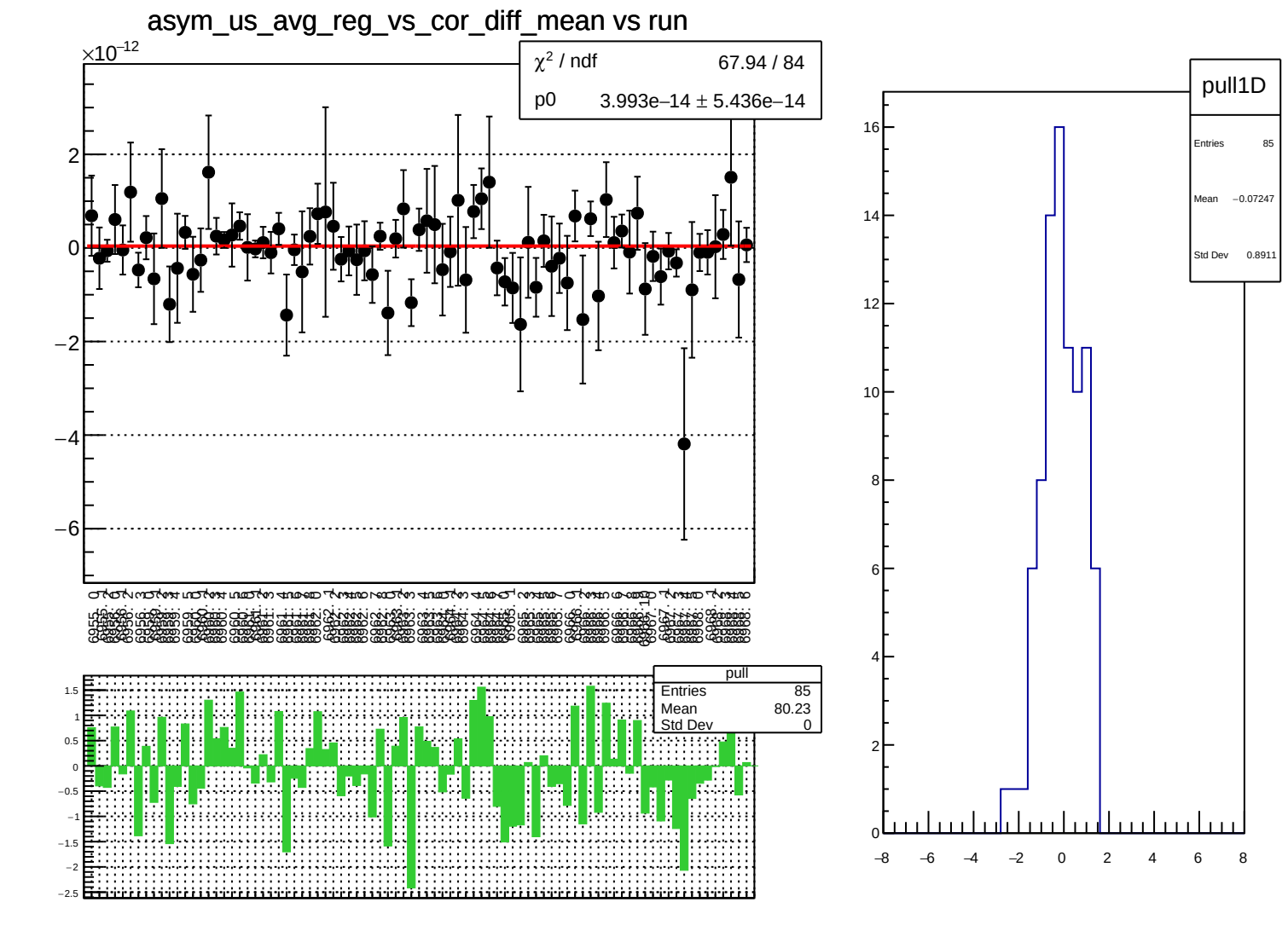

pull1D
Entries 85
Mean −0.01203
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

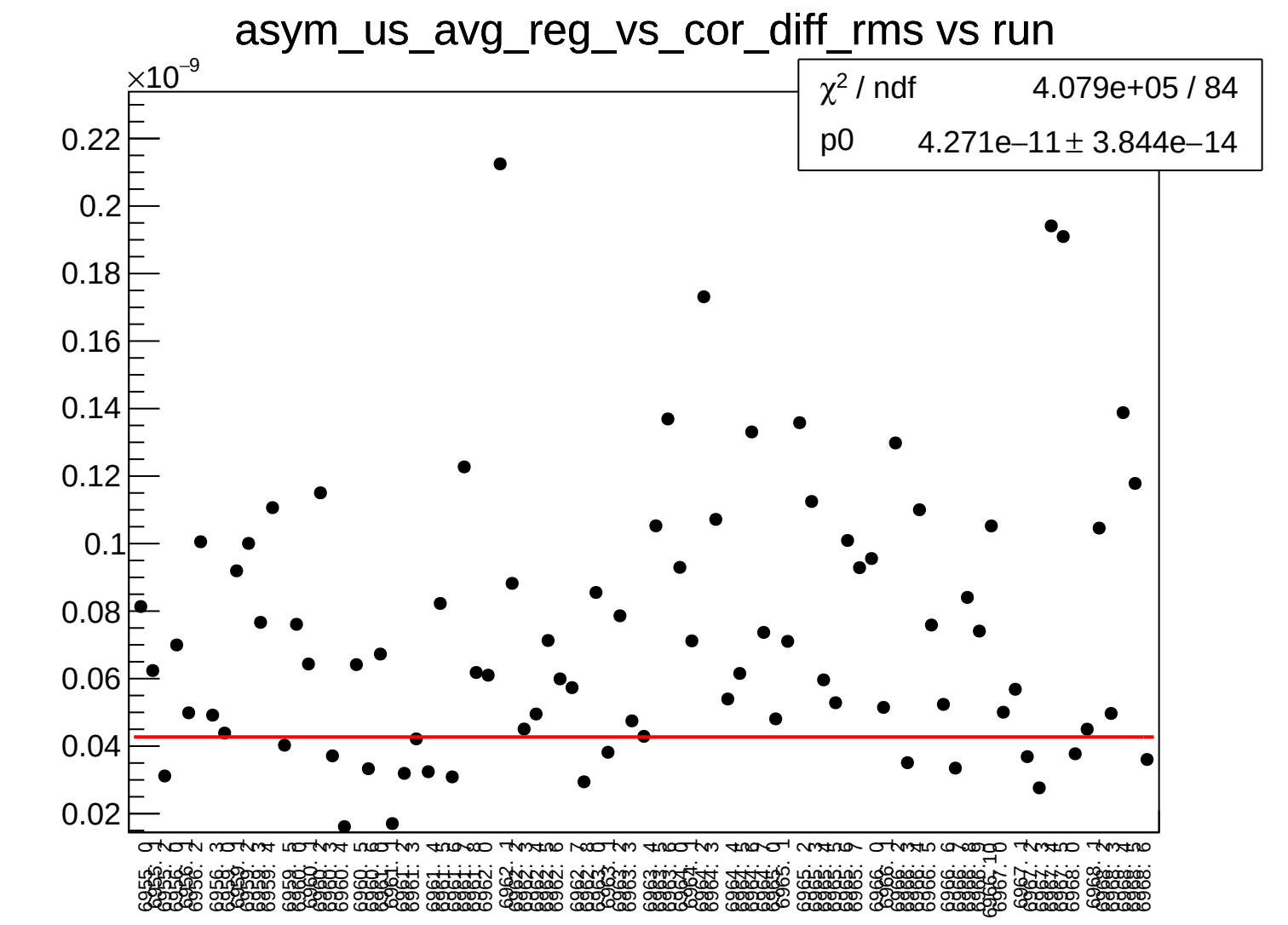

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.357e+04 / 84
p0 1705 ± 1.336
2100
2000
1900
1800
1700
1600
1500
1400

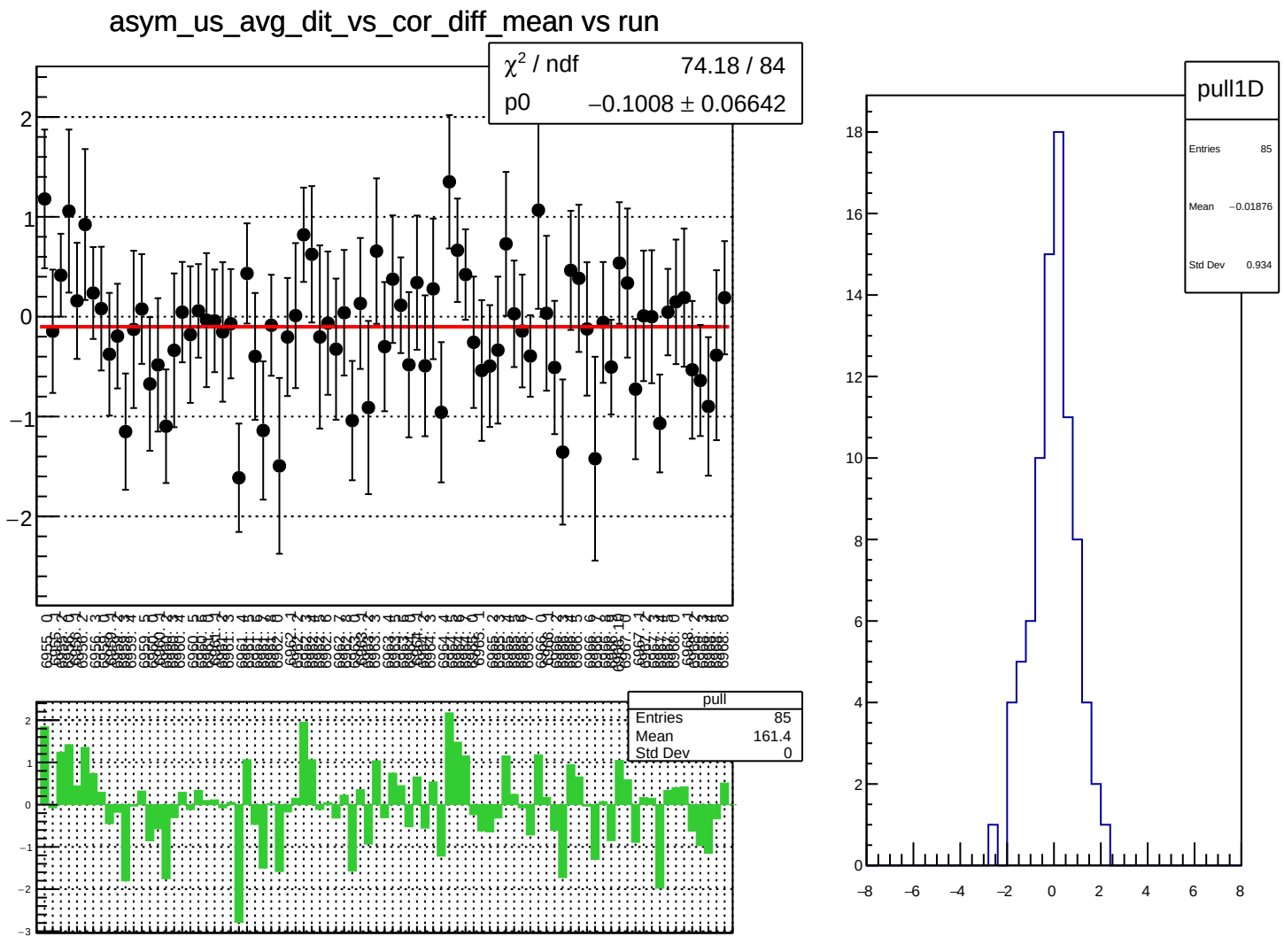

asym_us_avg_mean vs run
χ² / ndf 95.37 / 84
p0 −1189 ± 2059
pull
Entries 85
Mean 48.89
Std Dev 68.69

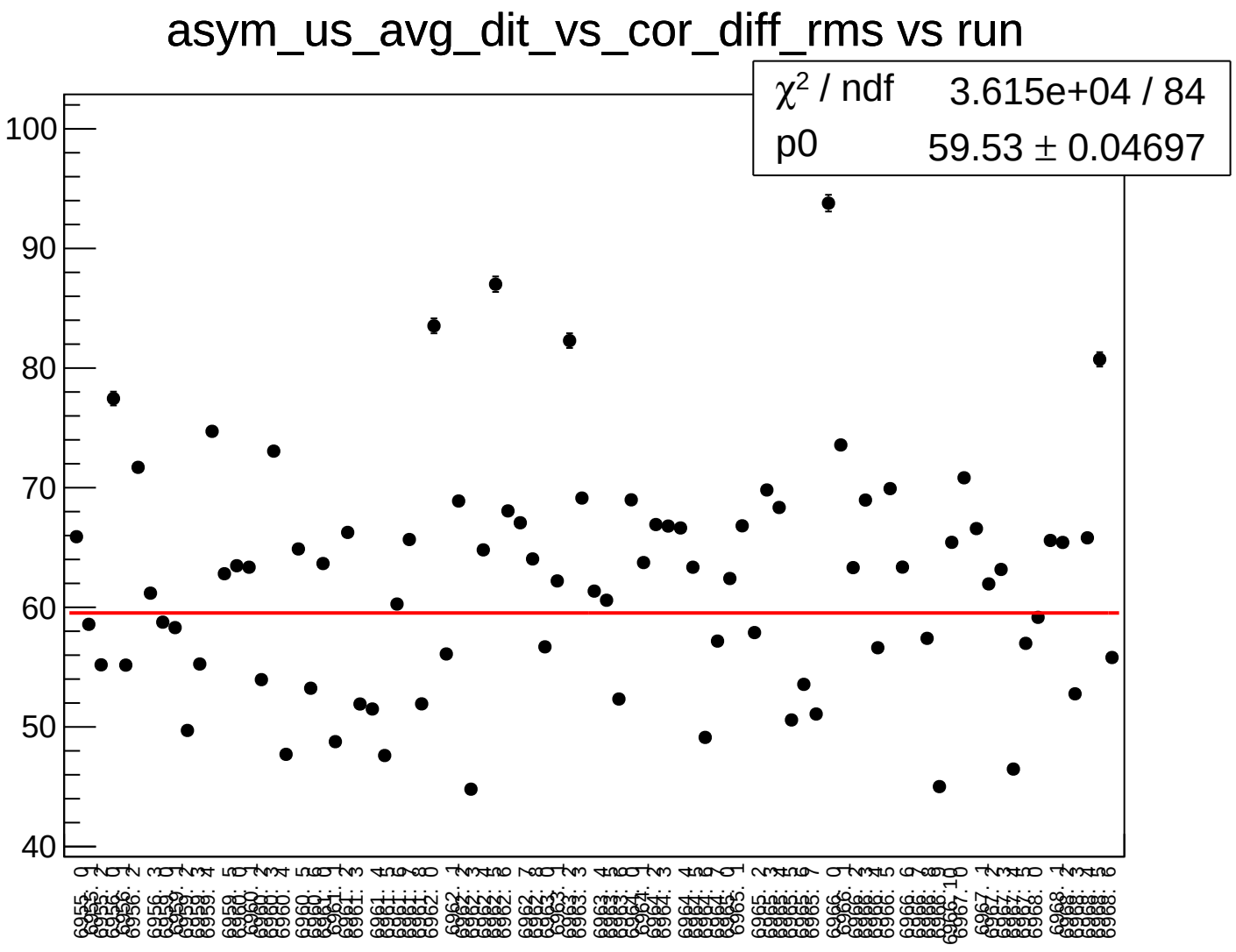

pull1D
Entries 85
Mean 0.005212
Std Dev 1.059

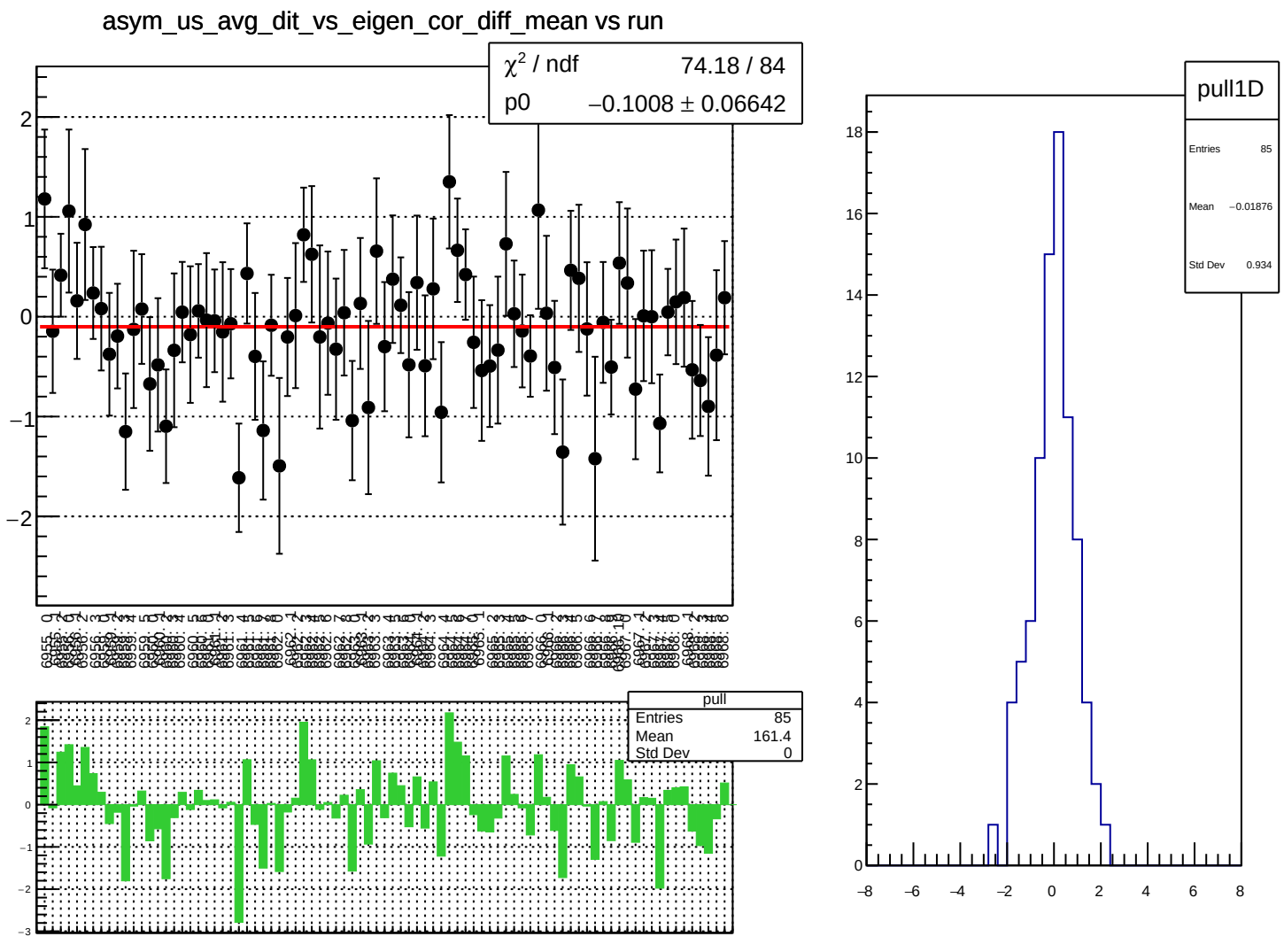

asym_us_avg_rms vs run
$\chi^2$ / ndf 1.003e+04 / 84
p0 1861 ± 1.456
2300
2200
2100
2000
1900
1800
1700
1600

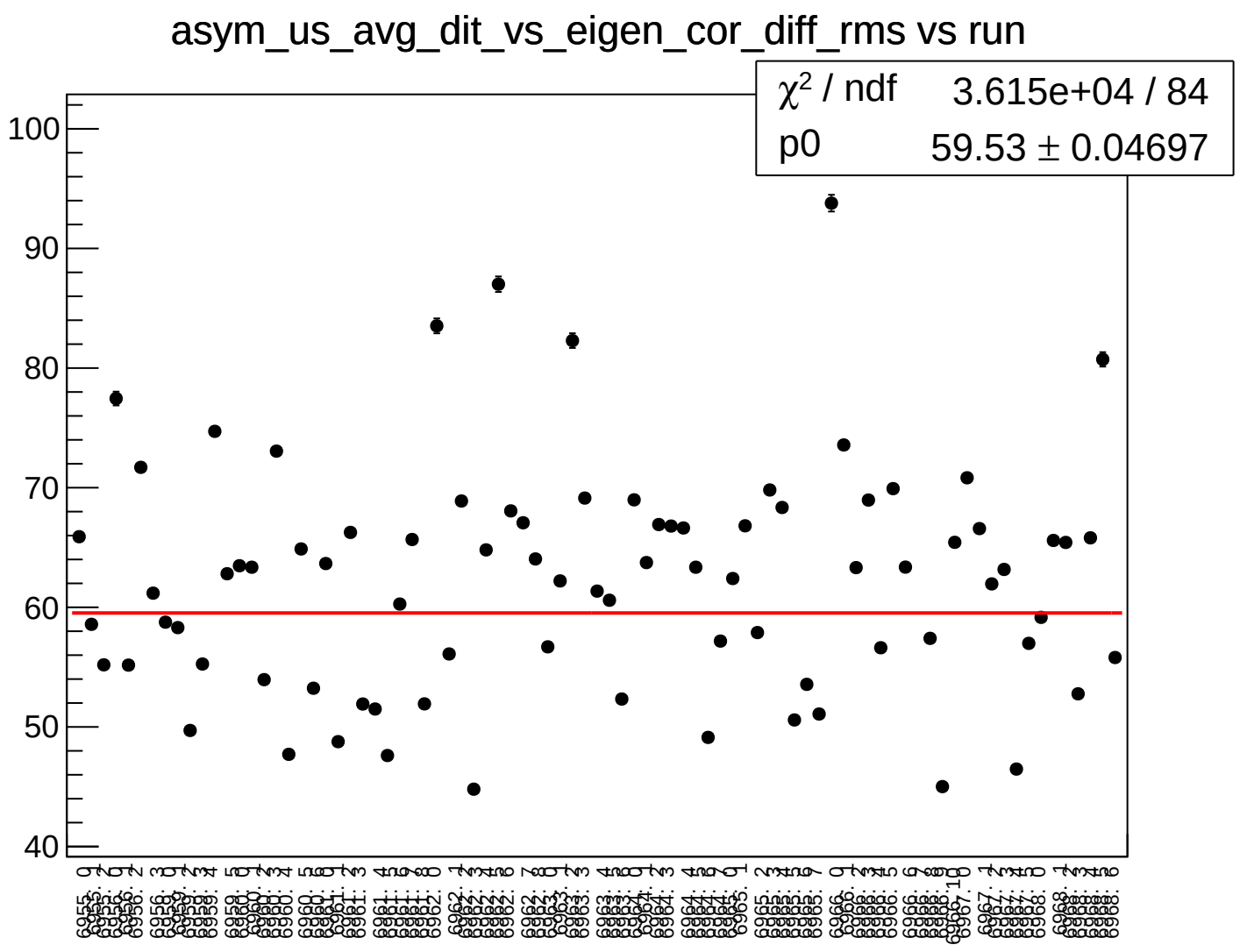

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.94 / 84
p0 3.993e−14 ± 5.436e−14
pull
Entries 85
Mean 80.23
Std Dev 0
pull1D
Entries 85
Mean −0.07247
Std Dev 0.8911

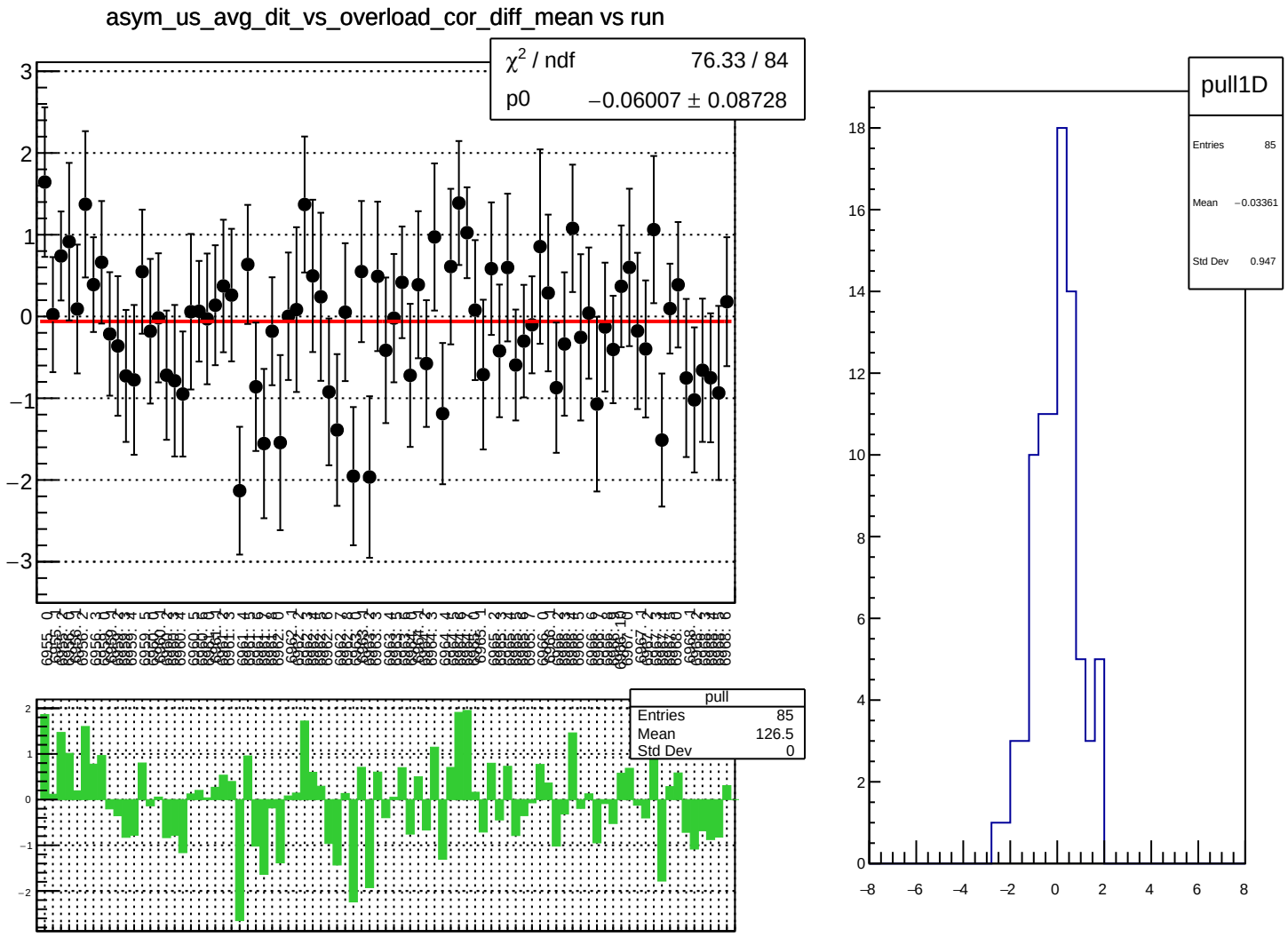

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.079e+05 / 84
p0 4.271e−11 ± 3.844e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

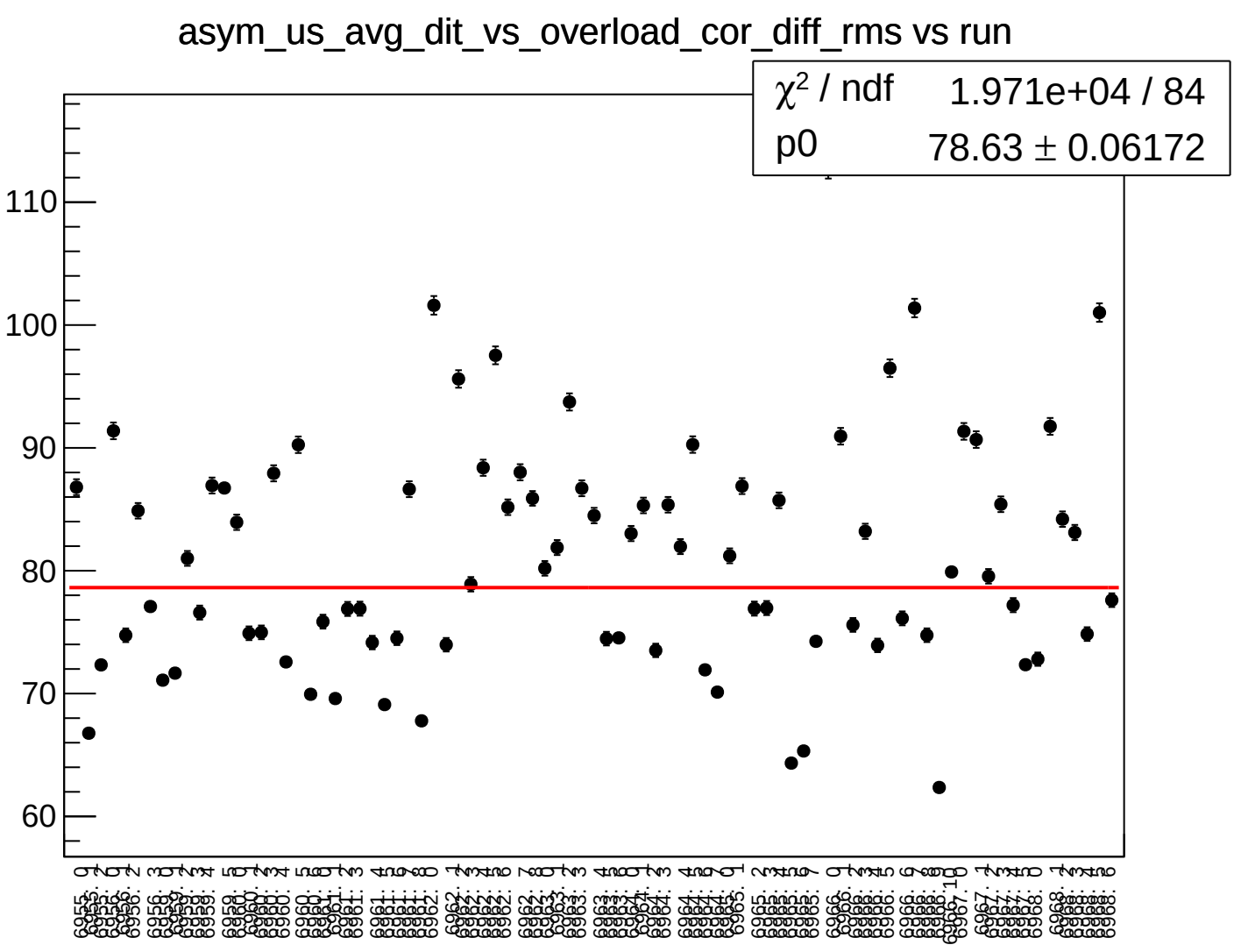

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.18 / 84
p0 −0.1008 ± 0.06642
pull
Entries 85
Mean 161.4
Std Dev 0
pull1D
Entries 85
Mean −0.01876
Std Dev 0.934

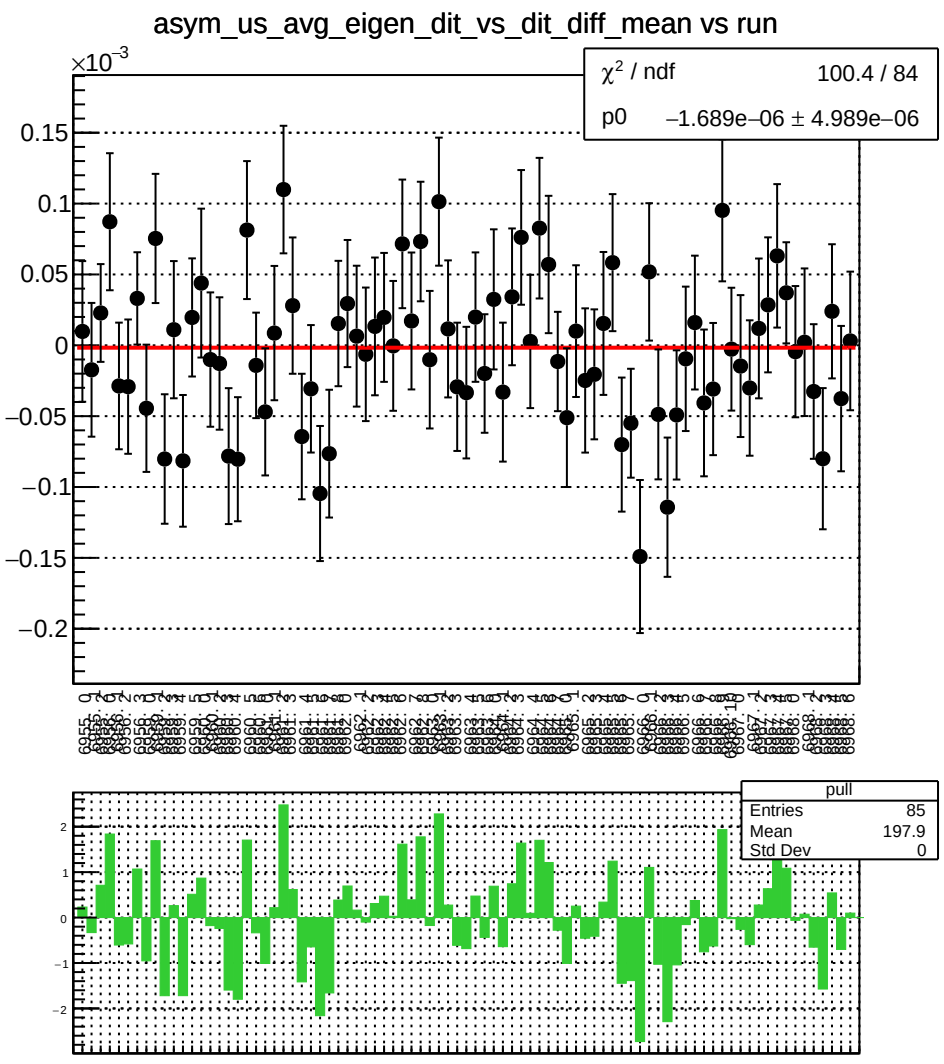

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.615e+04 / 84
p0 59.53 ± 0.04697
100
90
80
70
60
50
40

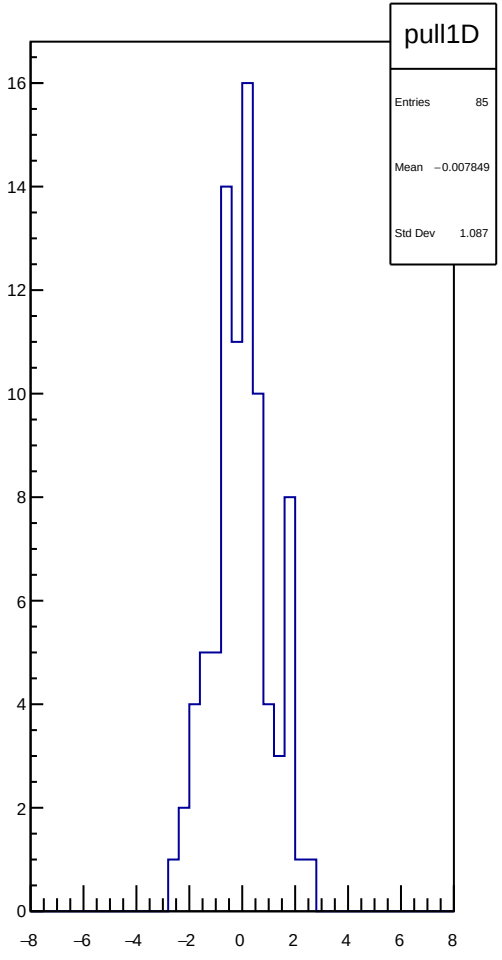

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.18 / 84
p0 −0.1008 ± 0.06642
pull
Entries 85
Mean 161.4
Std Dev 0
pull1D
Entries 85
Mean −0.01876
Std Dev 0.934

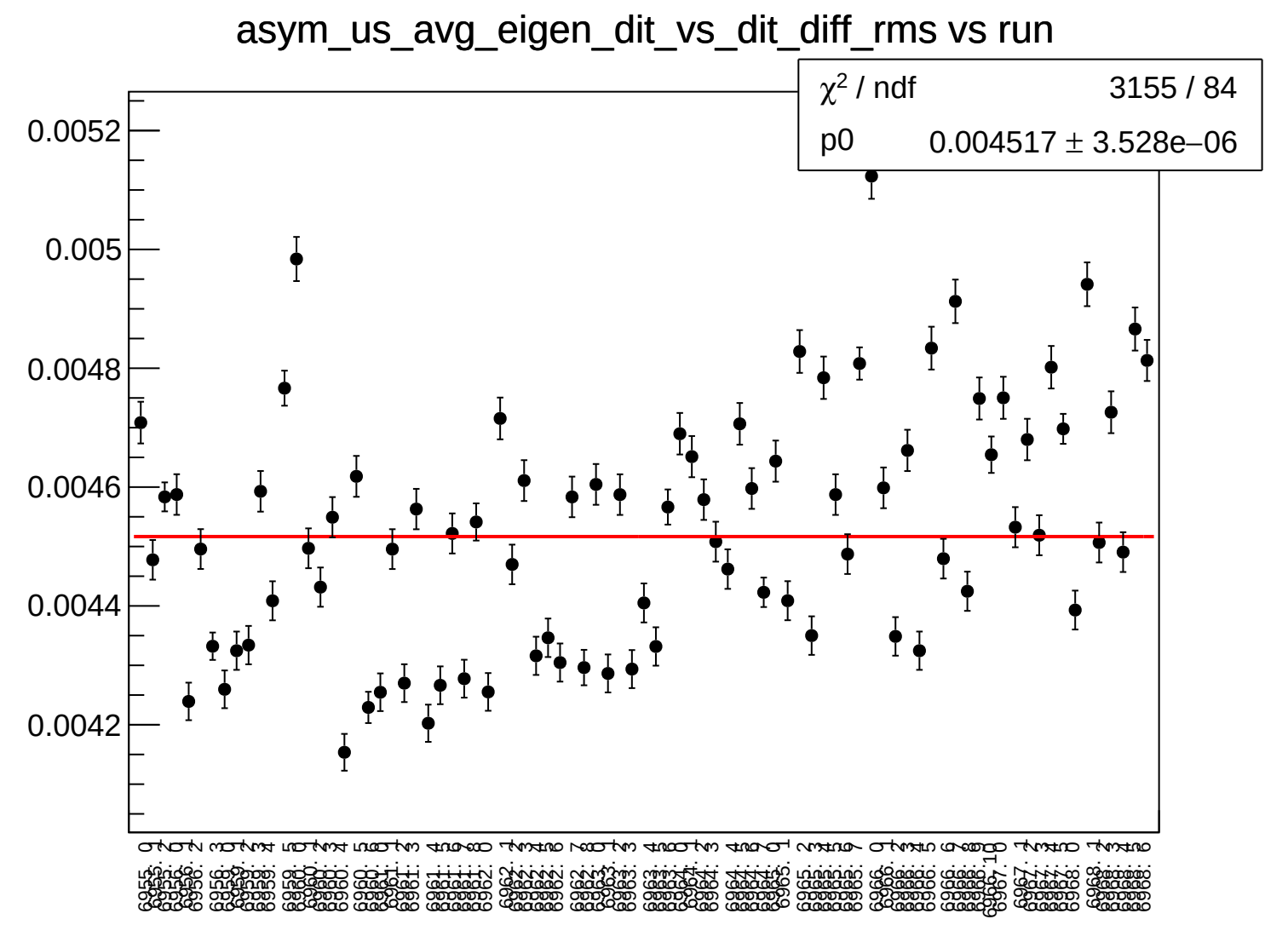

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.615e+04 / 84
p0 59.53 ± 0.04697
100
90
80
70
60
50
40

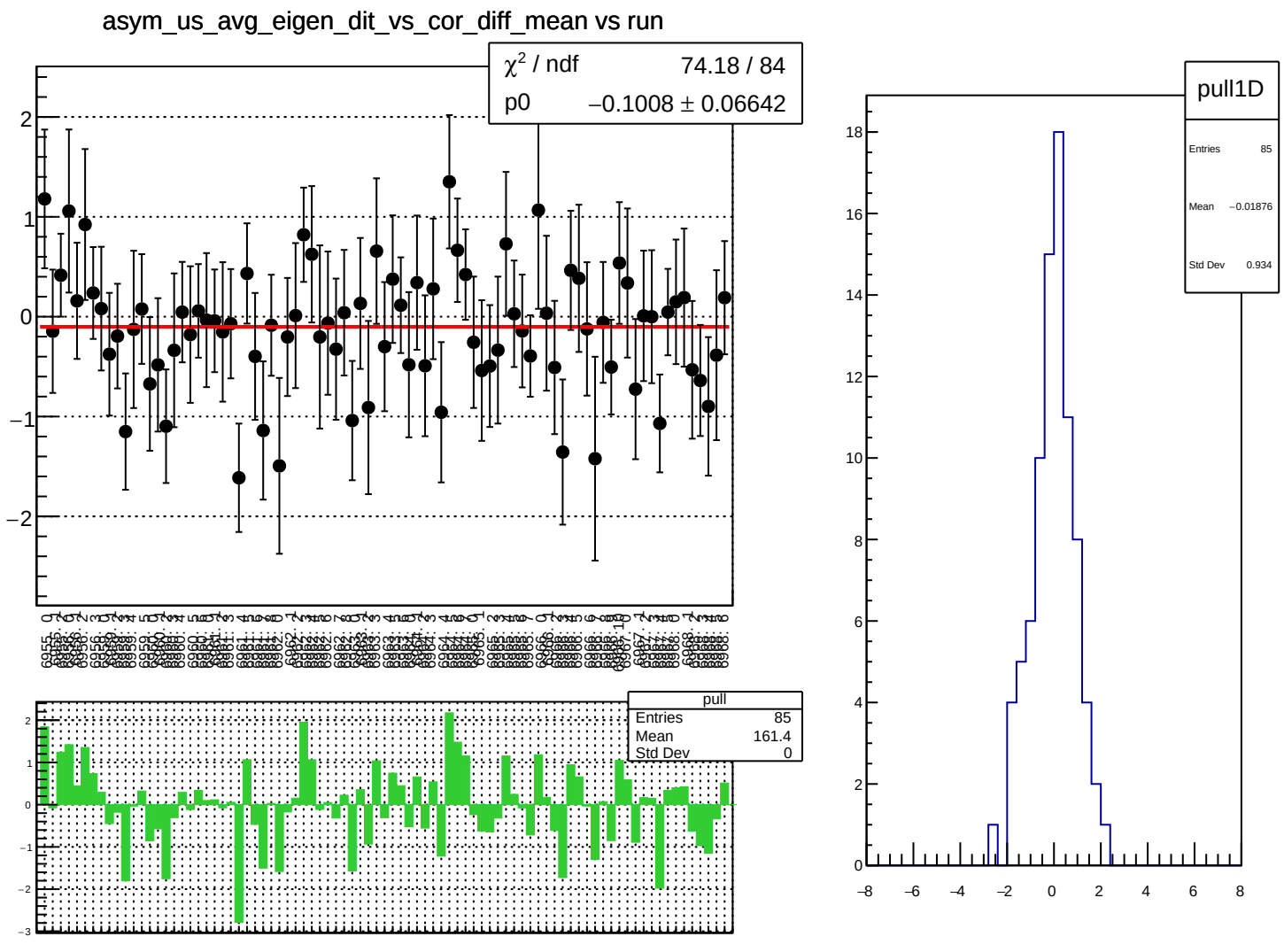

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 76.33 / 84
p0 −0.06007 ± 0.08728
pull
Entries 85
Mean 126.5
Std Dev 0
pull1D
Entries 85
Mean −0.03361
Std Dev 0.947

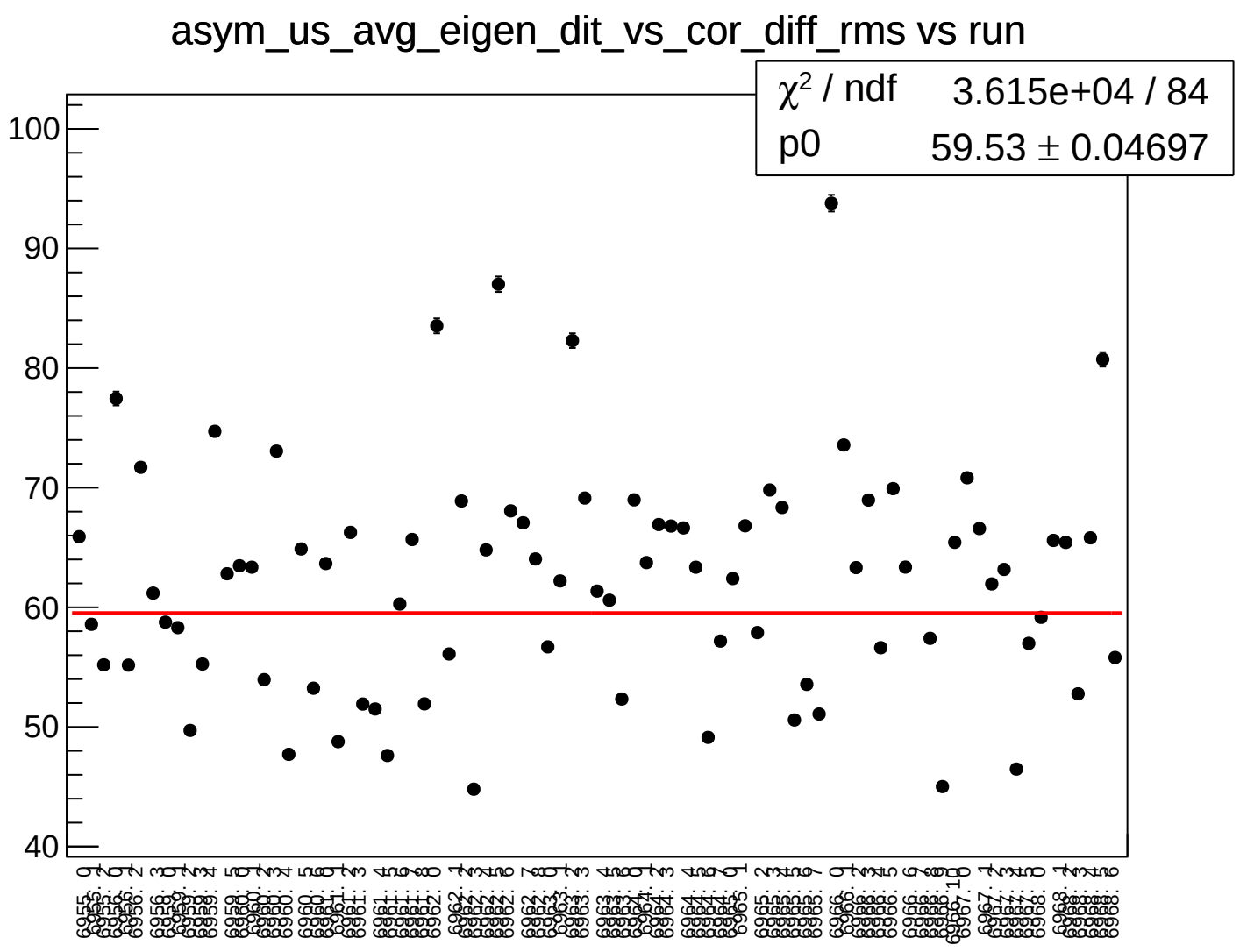

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.971e+04 / 84
p0 78.63 ± 0.06172
110
100
90
80
70
60

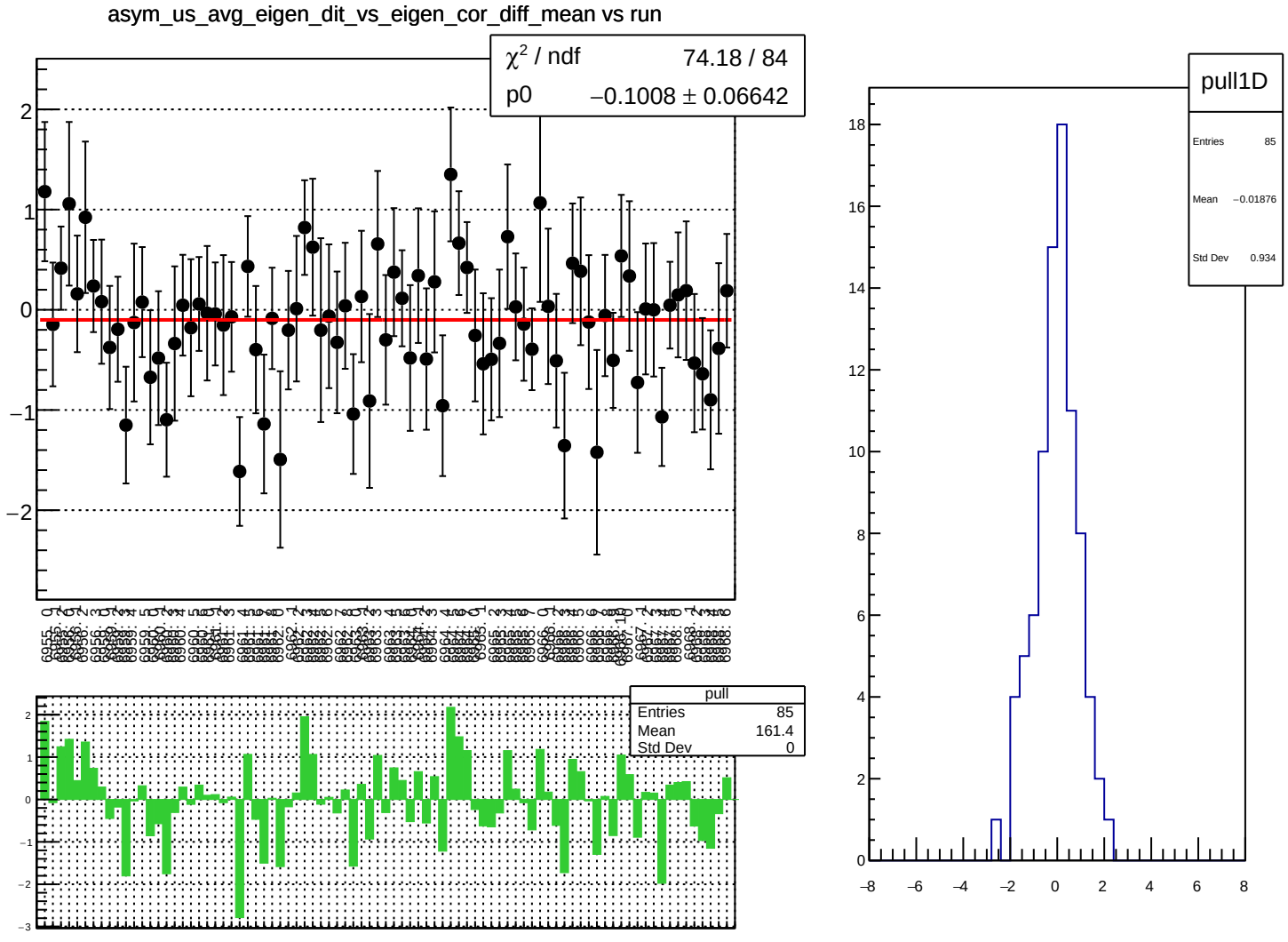

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 100.4 / 84
p0 −1.689e−06 ± 4.989e−06
×10⁻³
pull
Entries 85
Mean 197.9
Std Dev 0

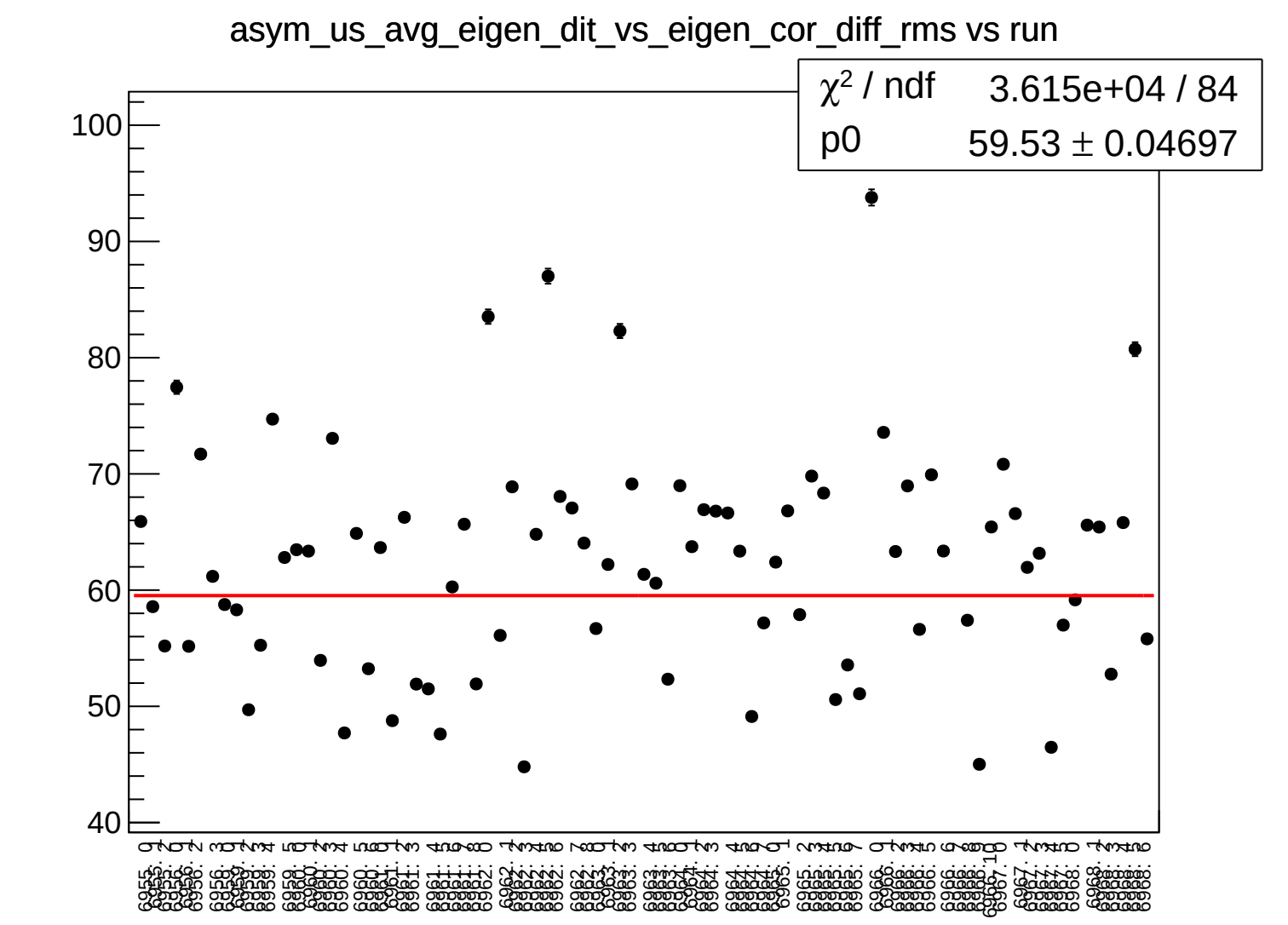

pull1D
Entries 85
Mean −0.007849
Std Dev 1.087


asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3155 / 84
p0 0.004517 ± 3.528e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

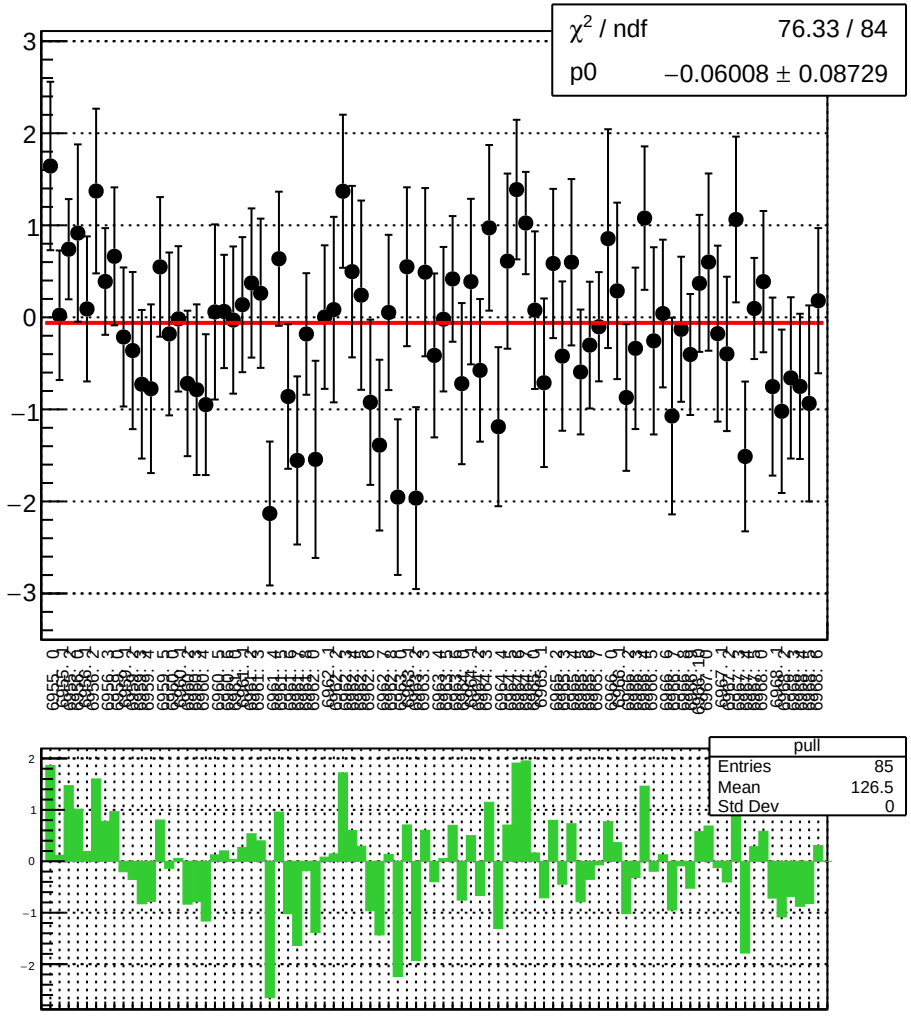

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.18 / 84
p0 −0.1008 ± 0.06642
pull
Entries 85
Mean 161.4
Std Dev 0
pull1D
Entries 85
Mean −0.01876
Std Dev 0.934

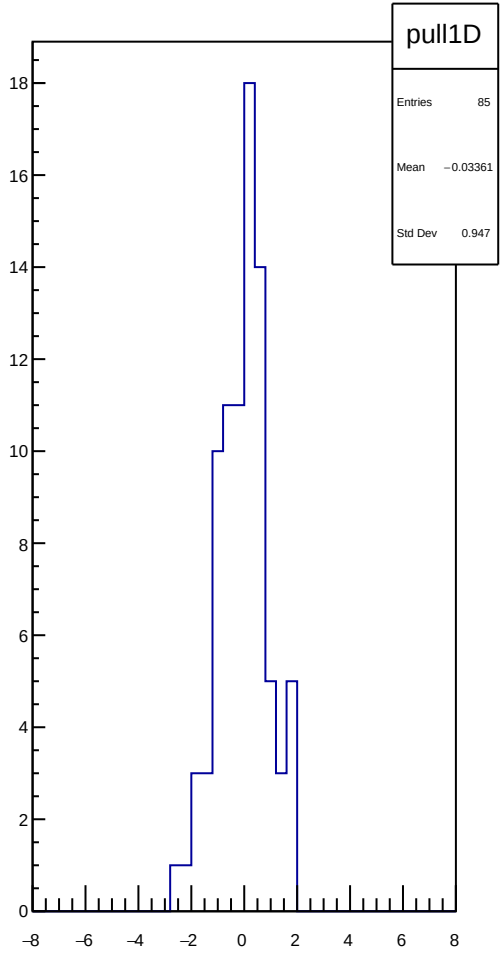

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.615e+04 / 84
p0 59.53 ± 0.04697
100
90
80
70
60
50
40

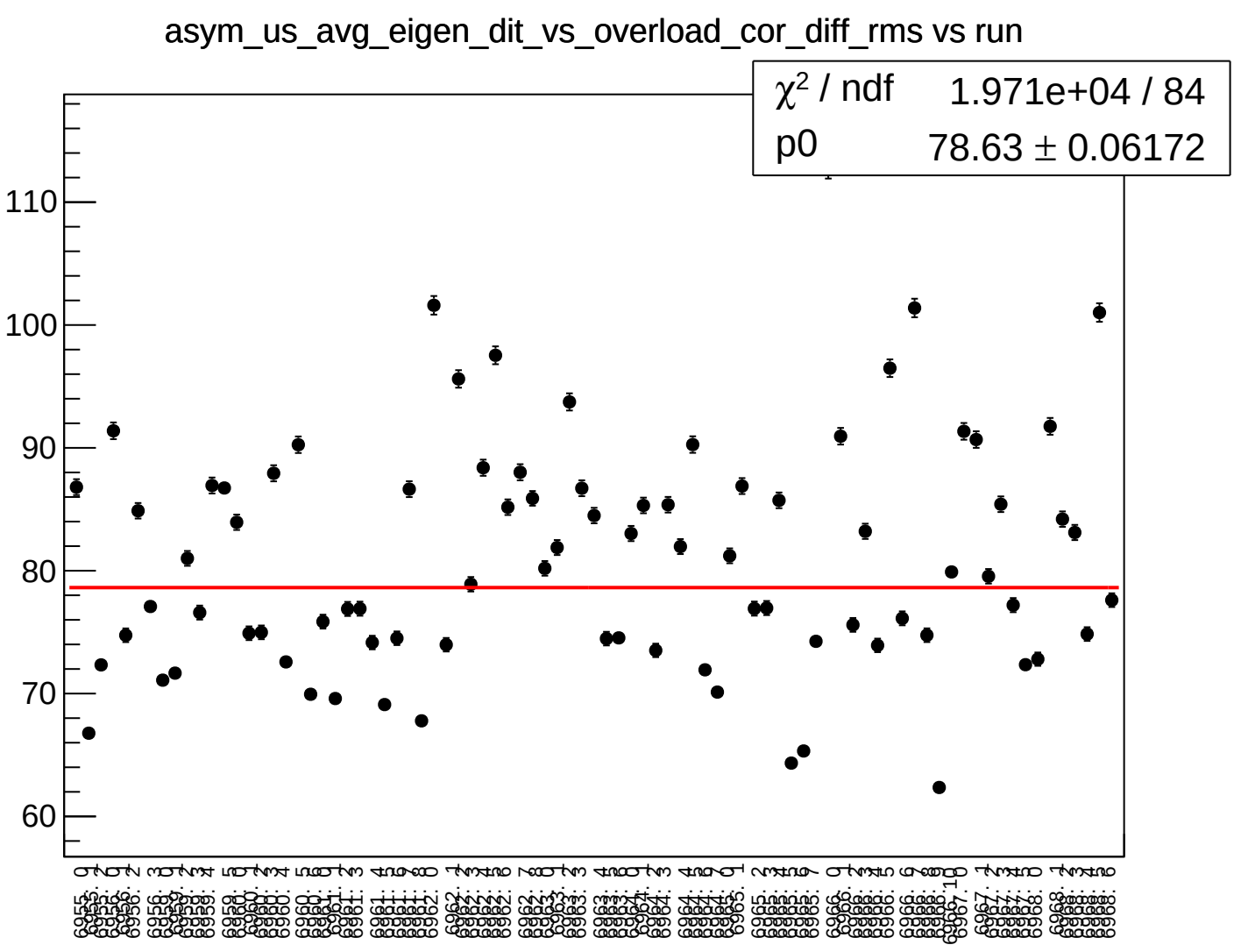

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.18 / 84
p0 −0.1008 ± 0.06642
pull
Entries 85
Mean 161.4
Std Dev 0
pull1D
Entries 85
Mean −0.01876
Std Dev 0.934

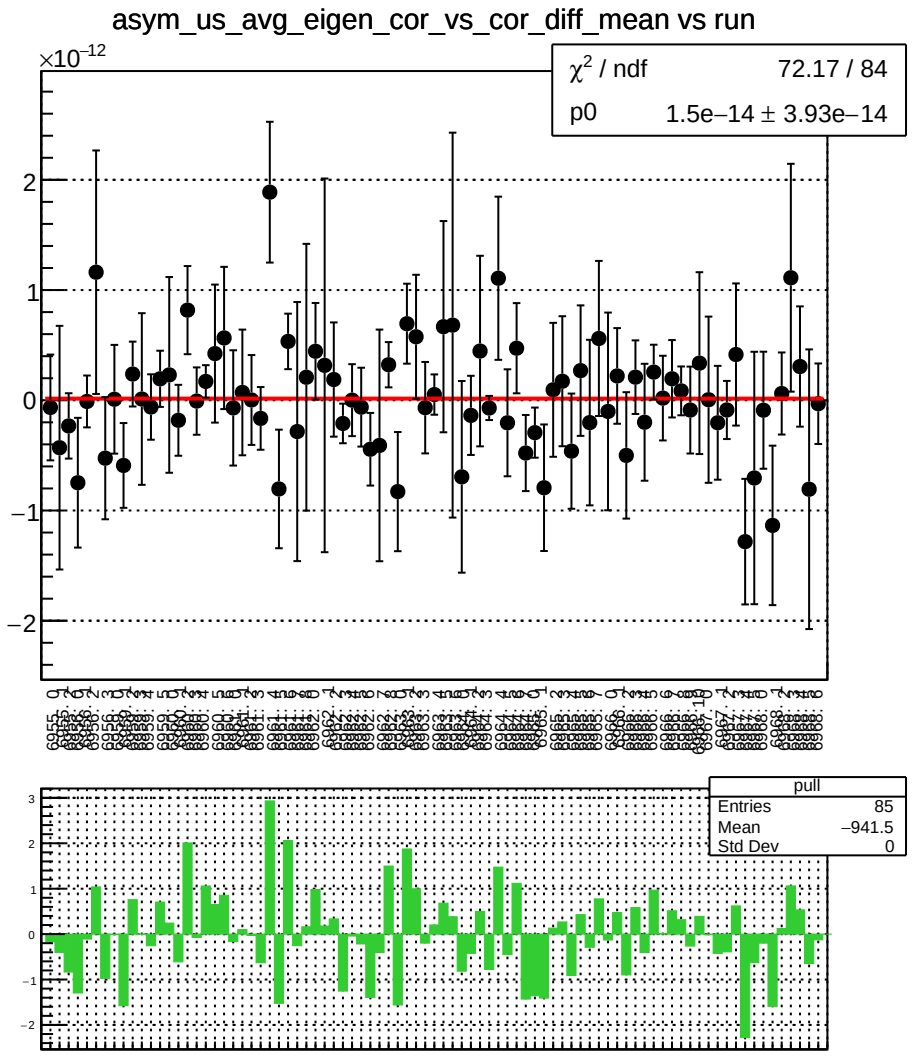

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 3.615e+04 / 84
p0 59.53 ± 0.04697
100
90
80
70
60
50
40

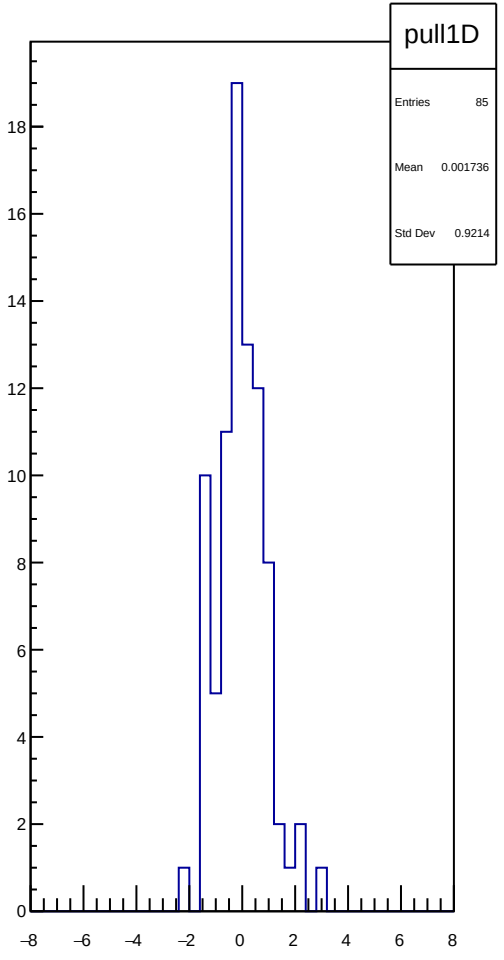
asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run

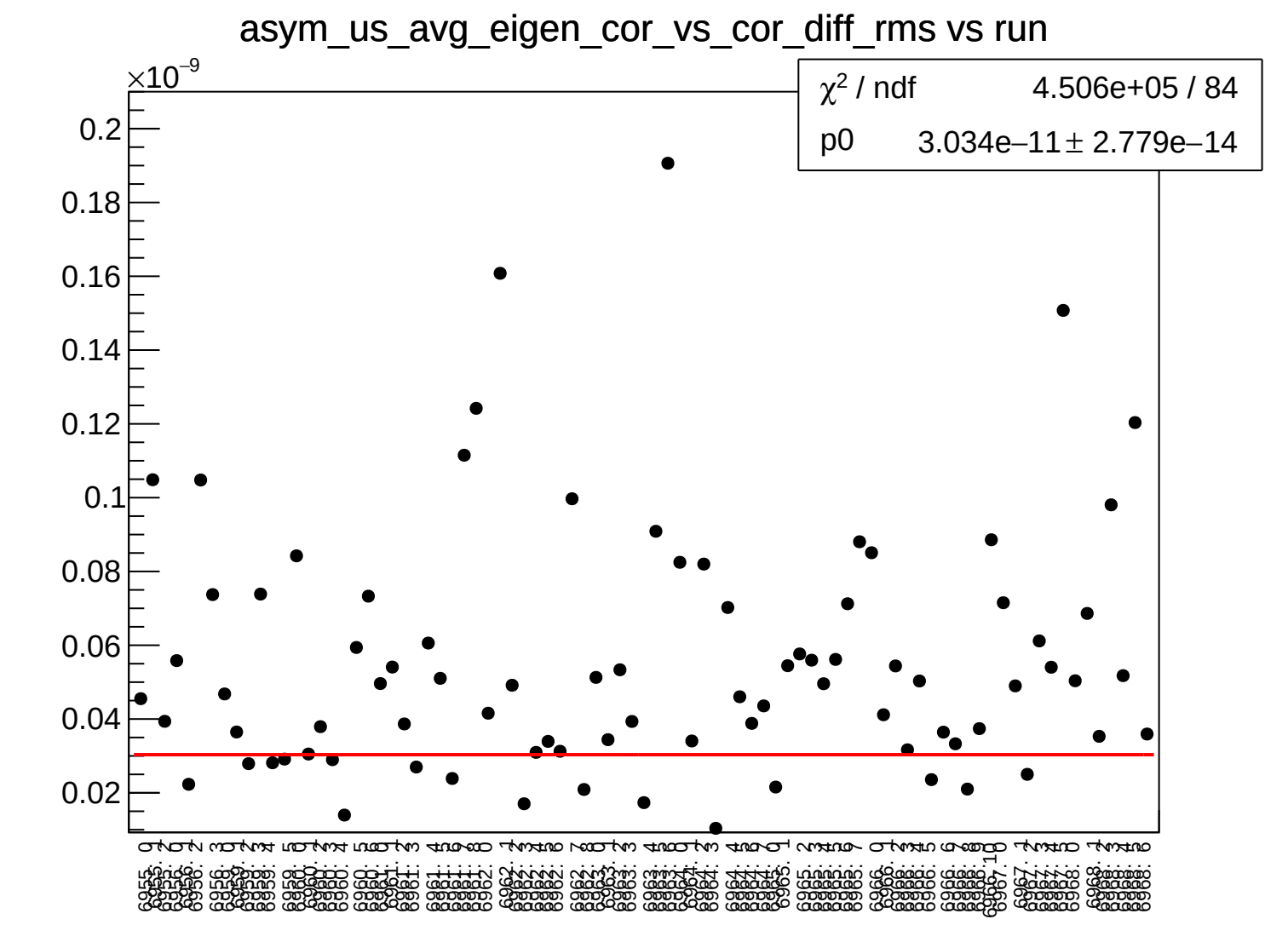


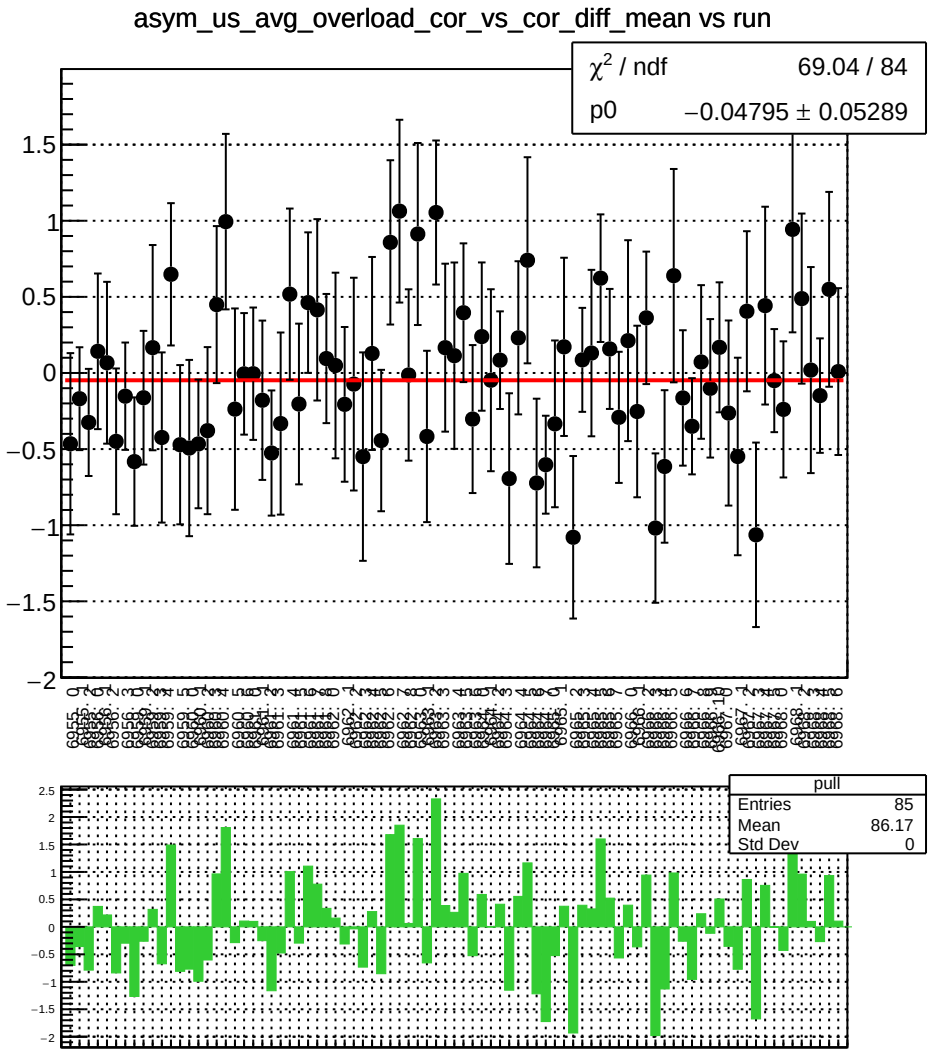



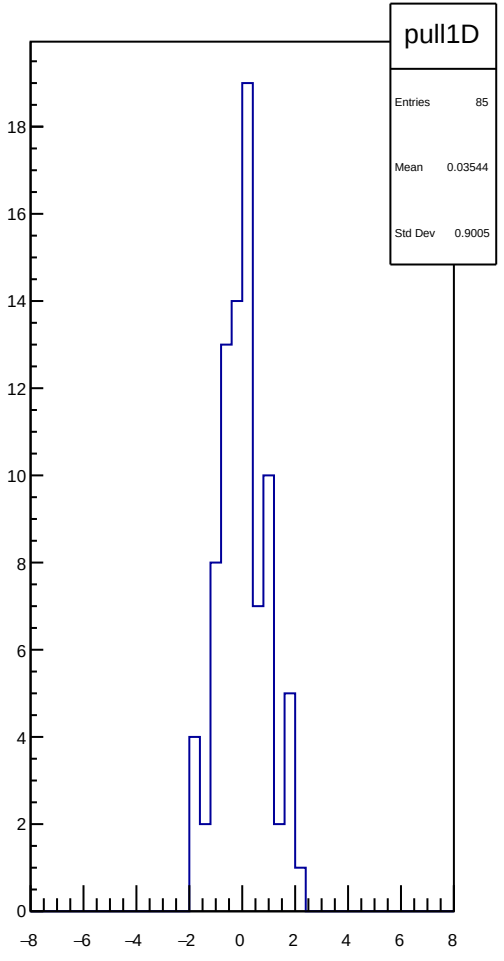

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.971e+04 / 84
p0 78.63 ± 0.06172
110
100
90
80
70
60

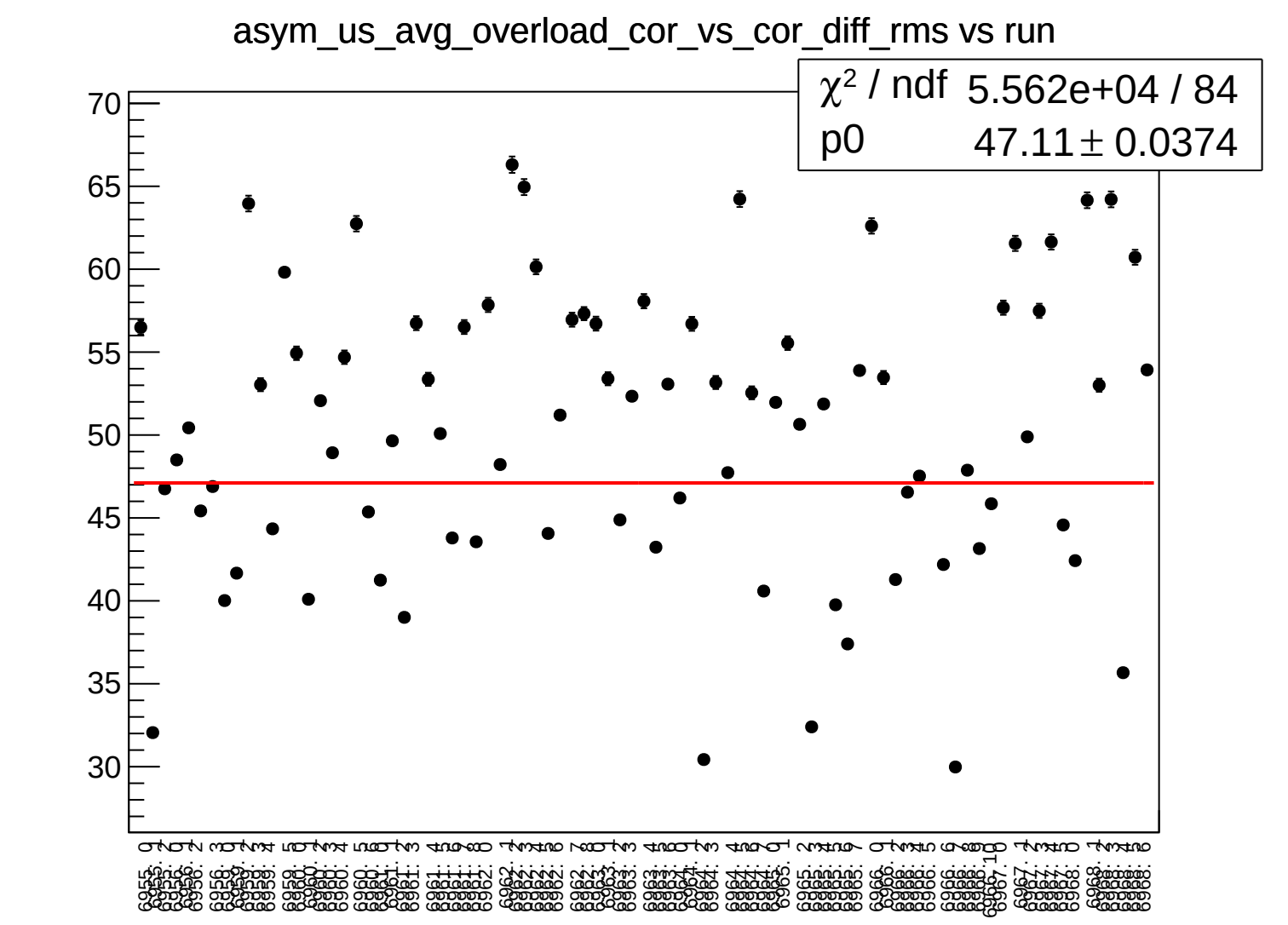

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.17 / 84
p0 1.5e−14 ± 3.93e−14
pull
Entries 85
Mean −941.5
Std Dev 0

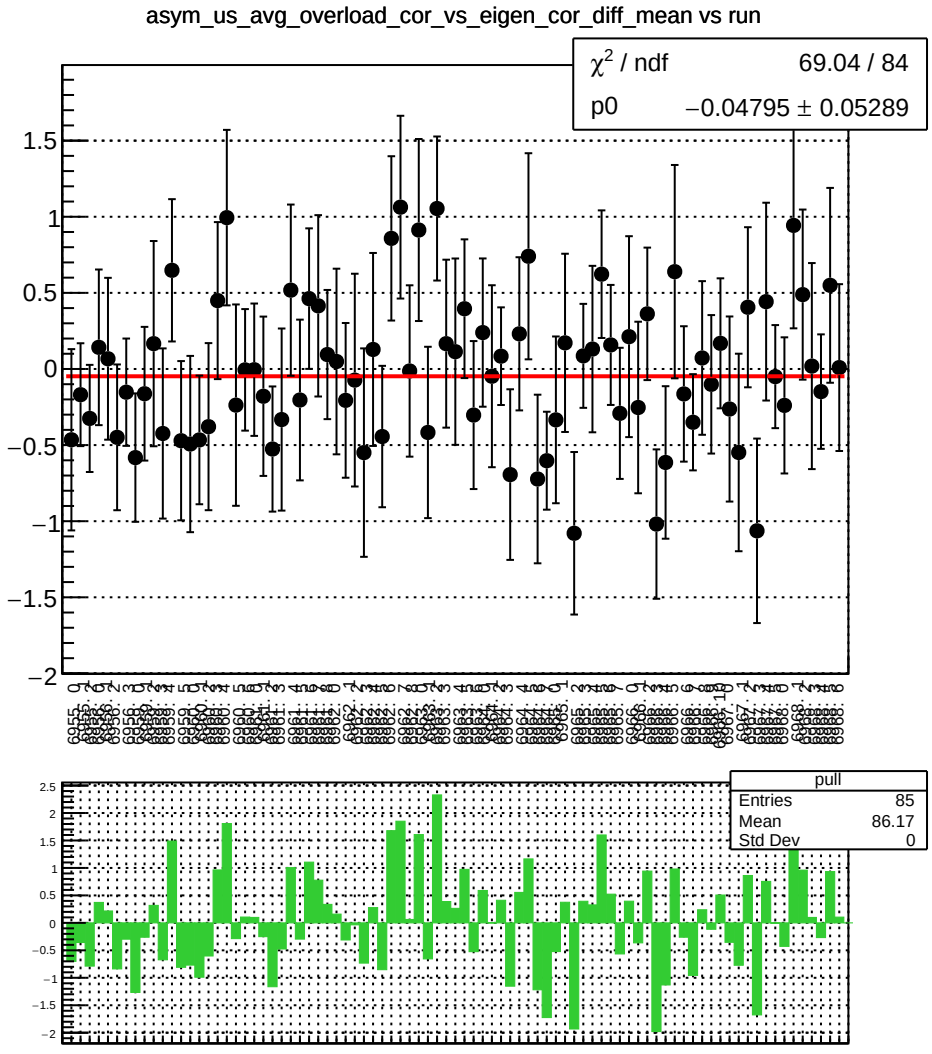

pull1D
Entries 85
Mean 0.001736
Std Dev 0.9214

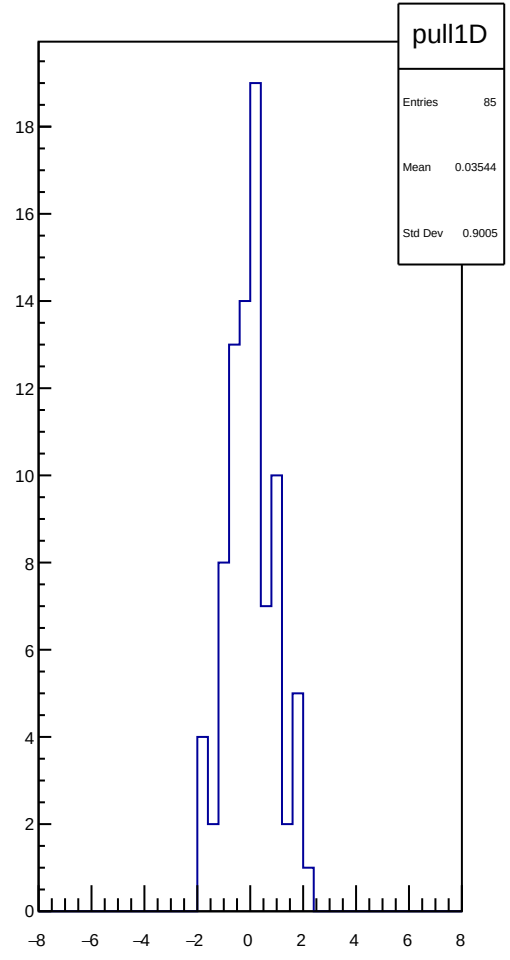

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.506e+05 / 84
p0 3.034e−11 ± 2.779e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

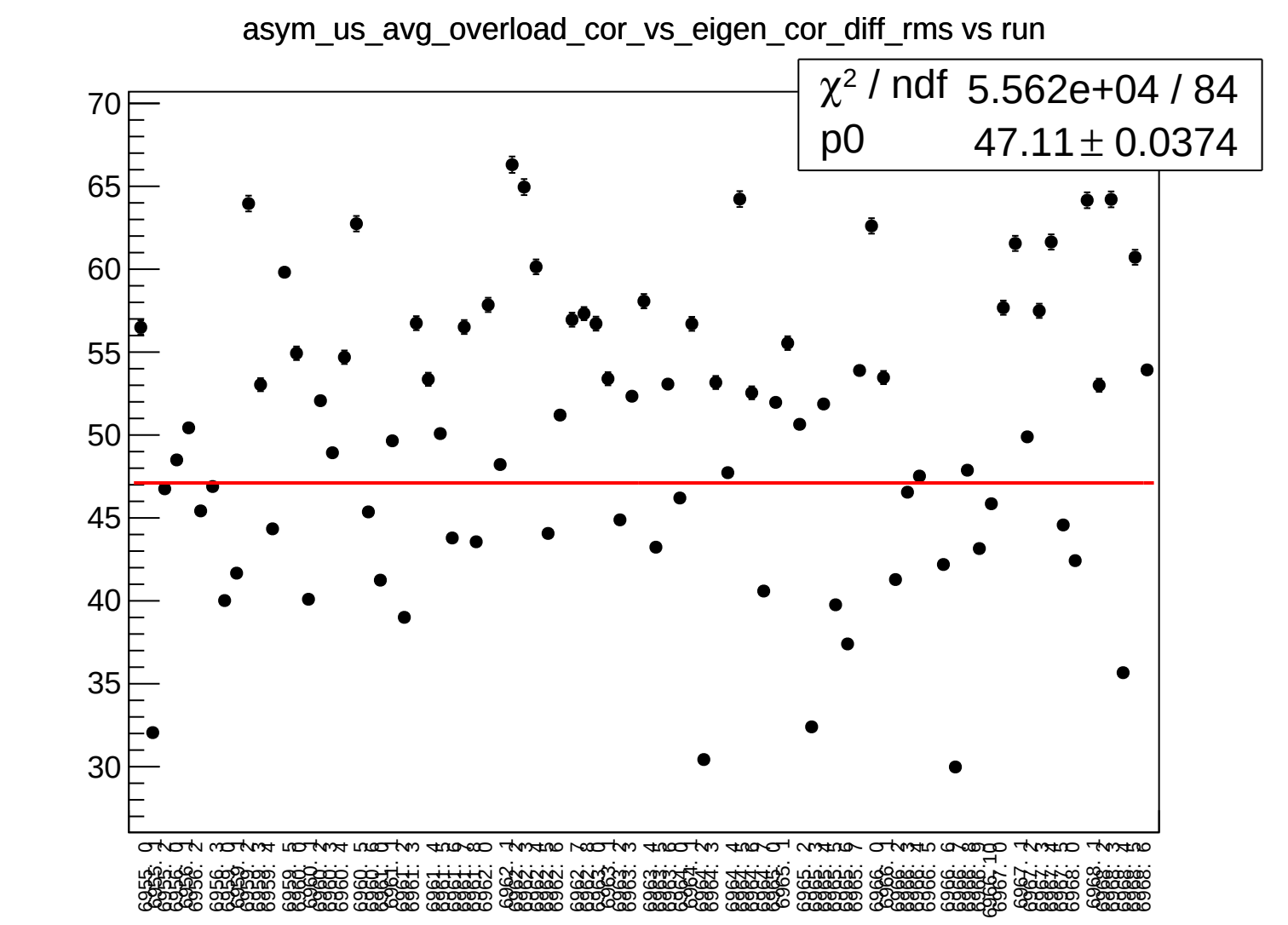

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 69.04 / 84
p0 −0.04795 ± 0.05289
pull
Entries 85
Mean 86.17
Std Dev 0

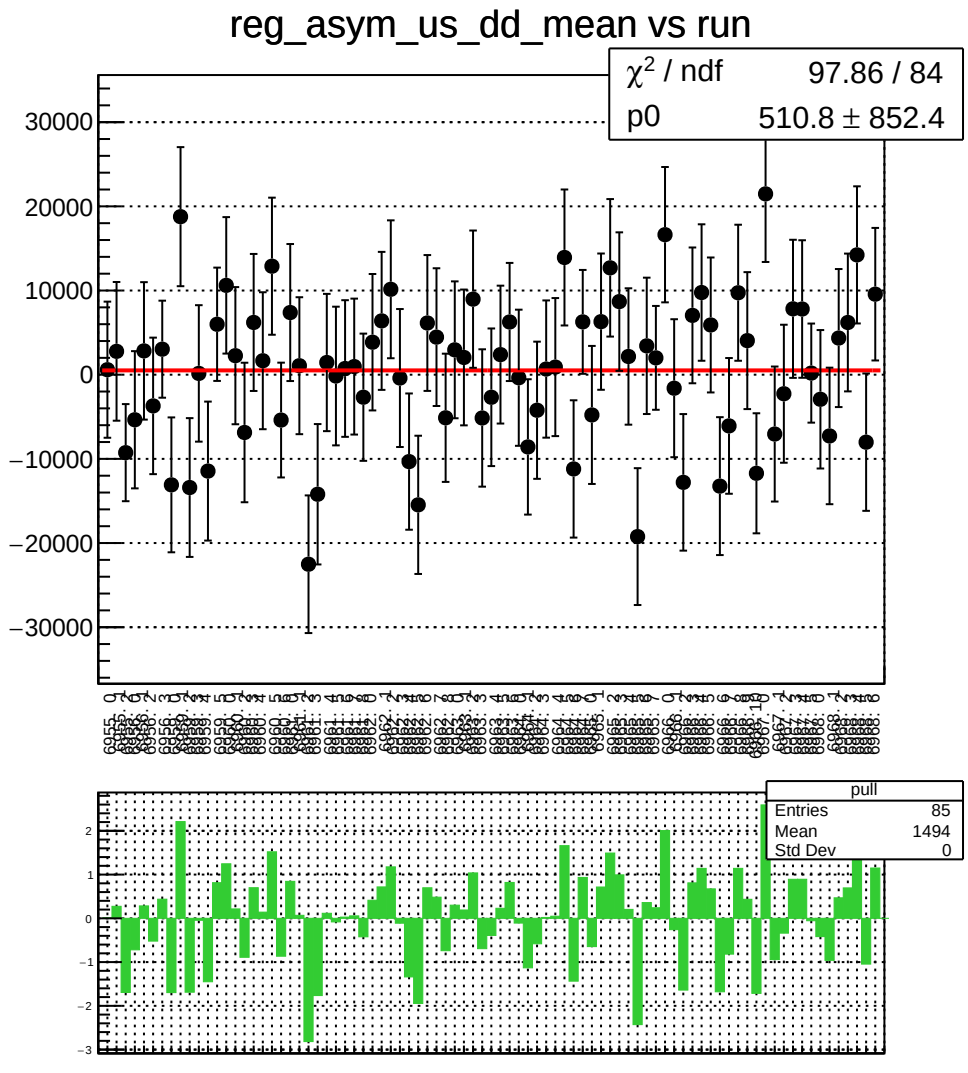

pull1D
Entries 85
Mean 0.03544
Std Dev 0.9005

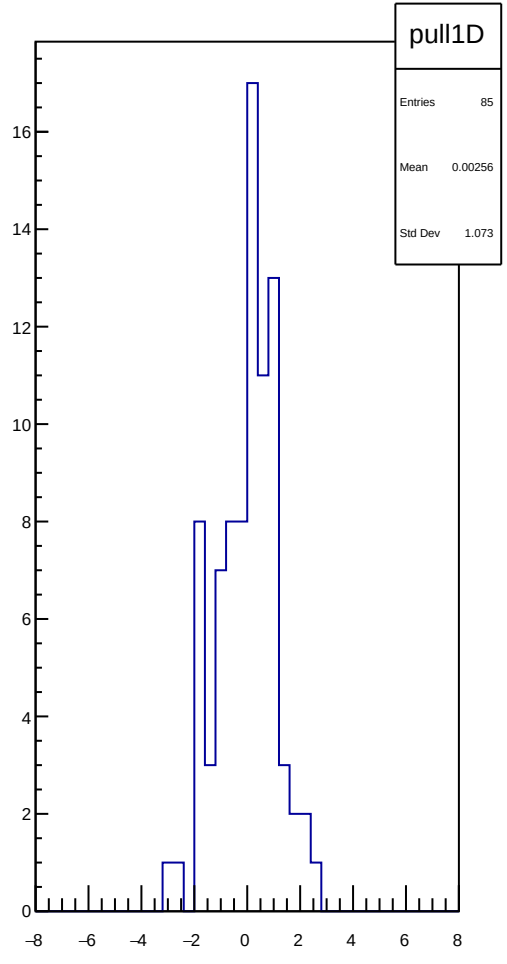

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.562e+04 / 84
p0 47.11 ± 0.0374
70
65
60
55
50
45
40
35
30

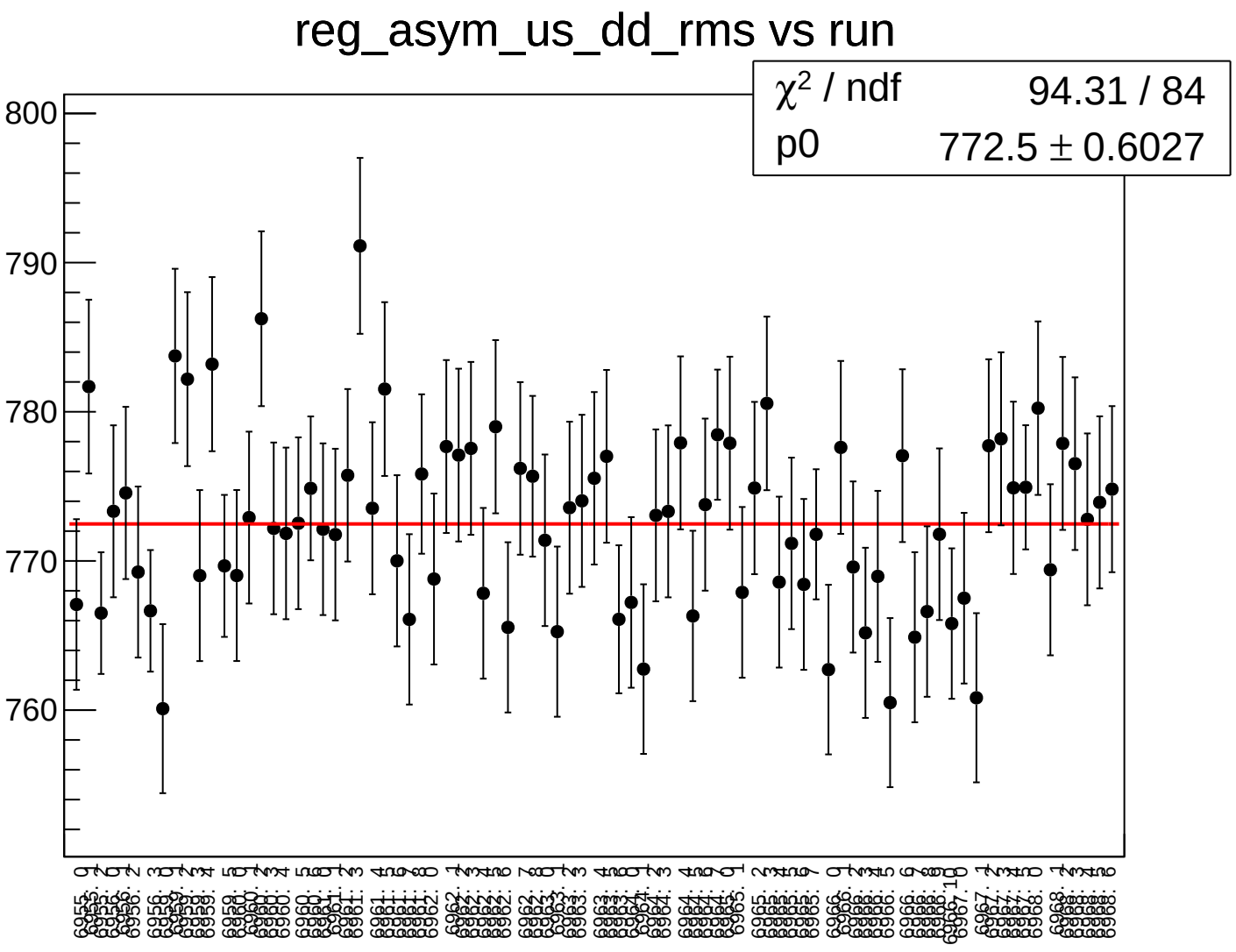

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.04 / 84
p0 −0.04795 ± 0.05289
pull
Entries 85
Mean 86.17
Std Dev 0

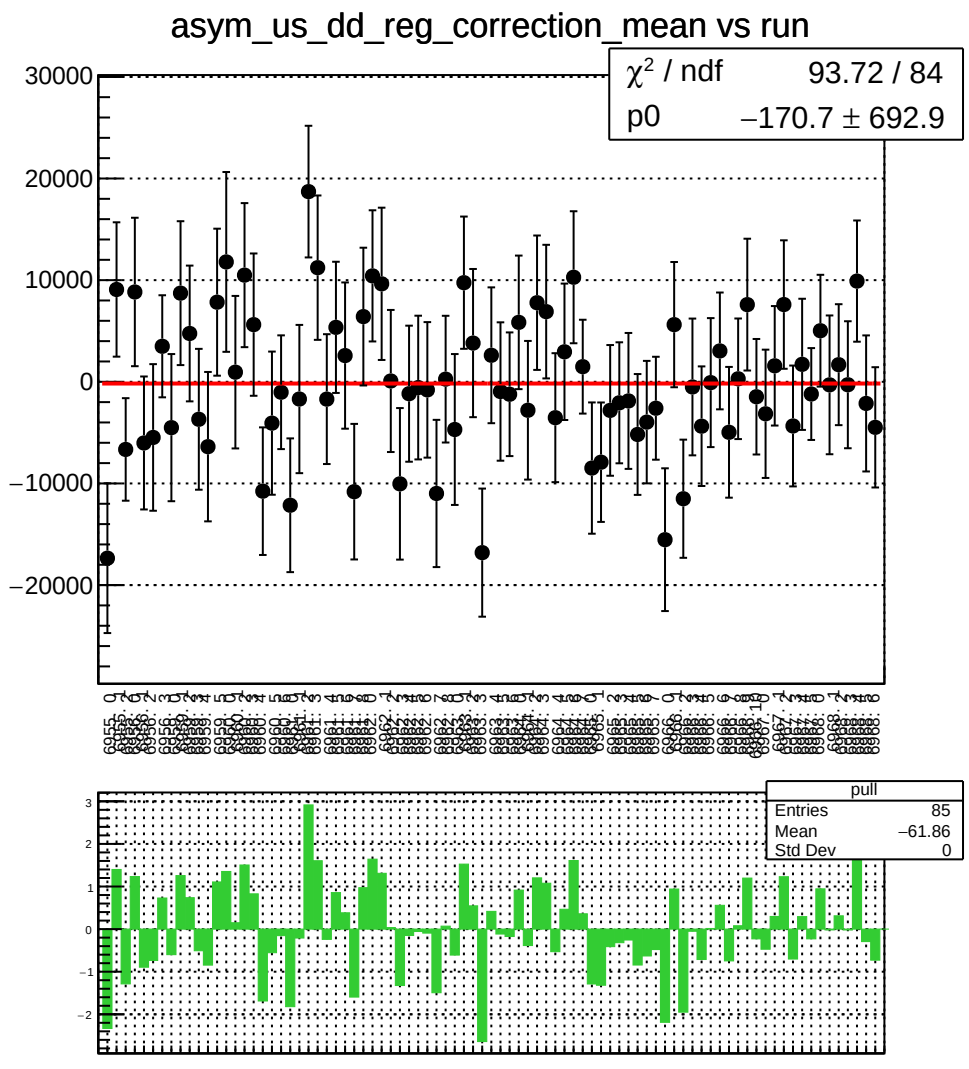

pull1D
Entries 85
Mean 0.03544
Std Dev 0.9005

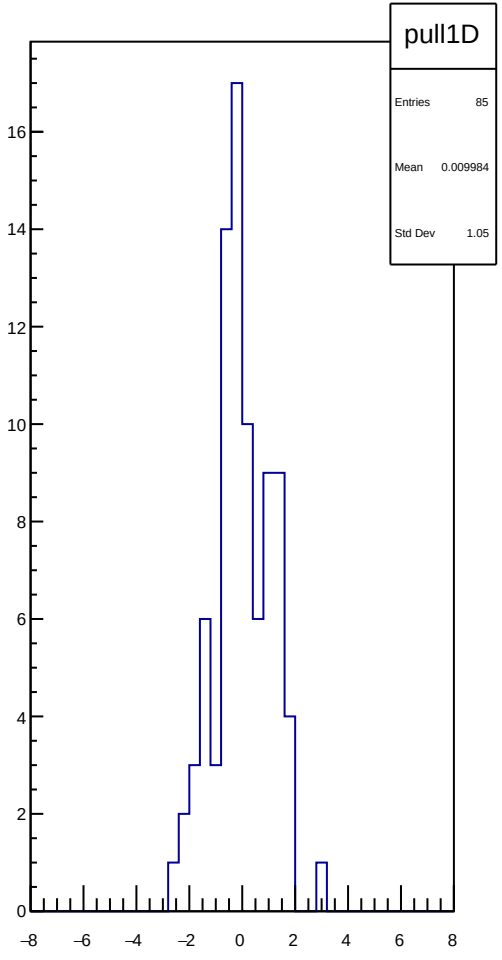

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.562e+04 / 84
p0 47.11 ± 0.0374
70
65
60
55
50
45
40
35
30

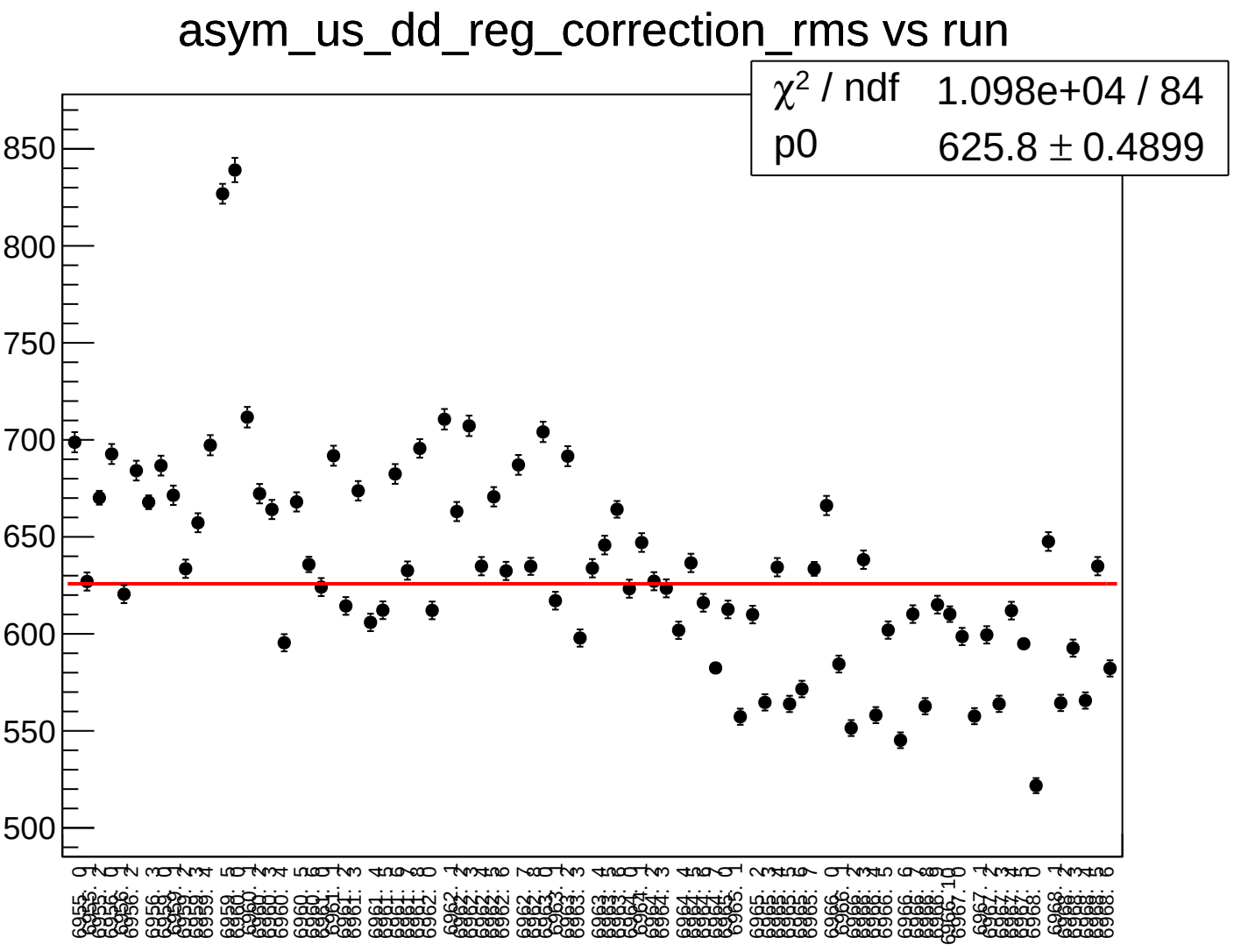

reg_asym_us_dd_mean vs run
χ² / ndf 97.86 / 84
p0 510.8 ± 852.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 1494
Std Dev 0
2
1
0
−1
−2
−3

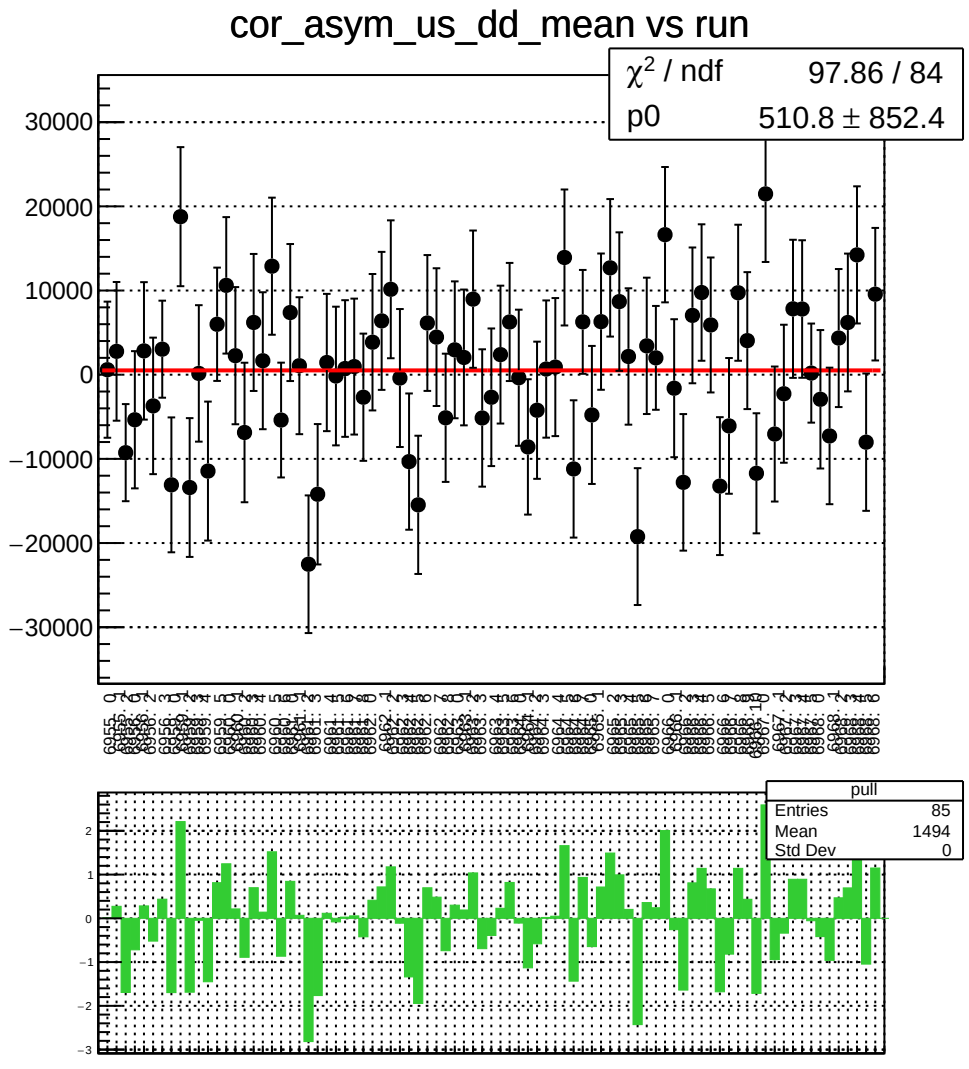

pull1D
Entries 85
Mean 0.00256
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

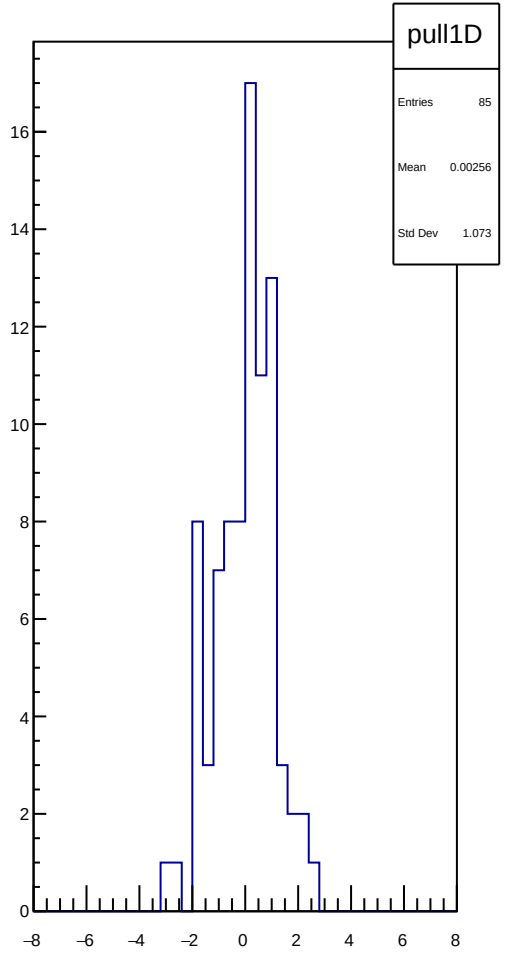

reg_asym_us_dd_rms vs run
χ² / ndf 94.31 / 84
p0 772.5 ± 0.6027
800
790
780
770
760

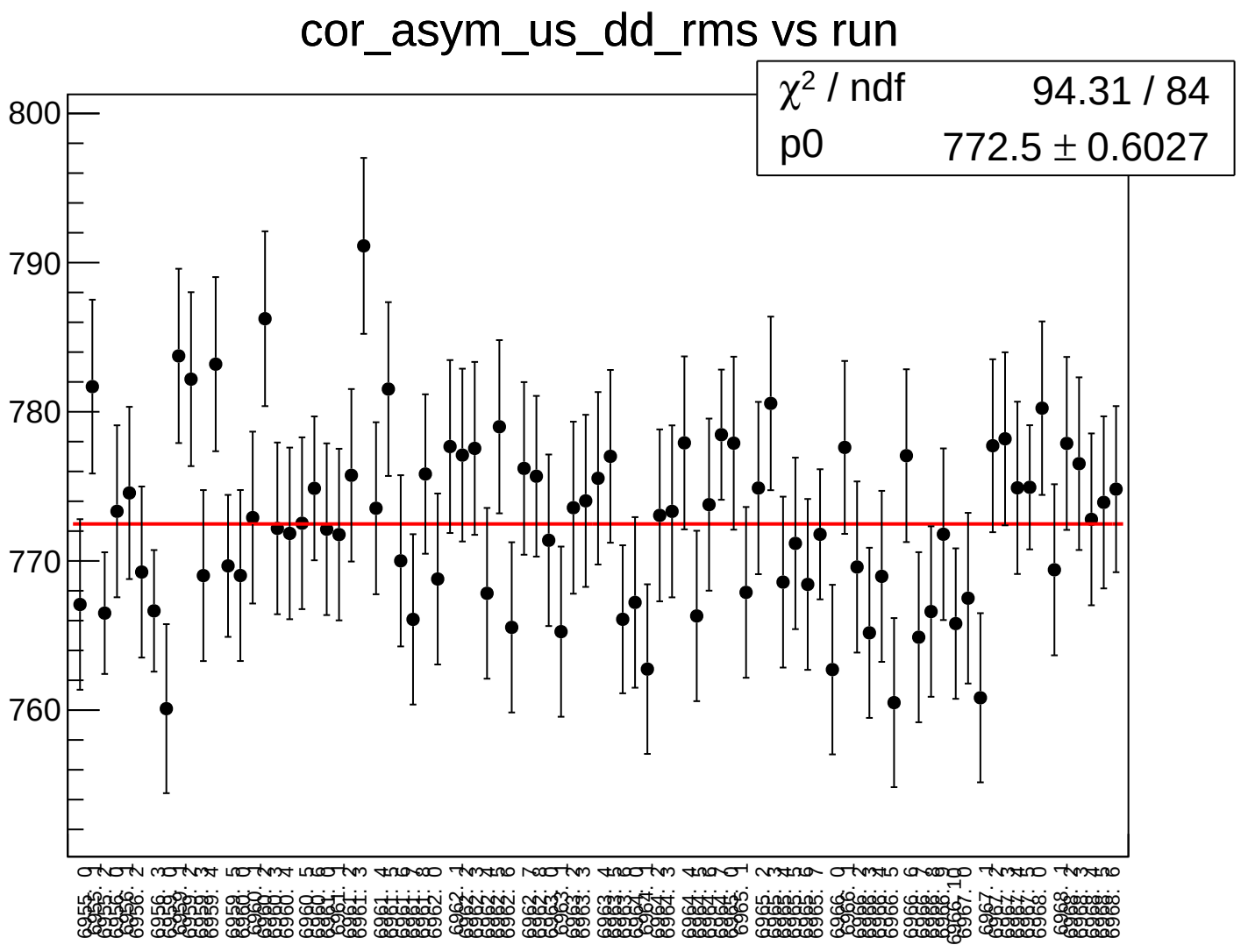

asym_us_dd_reg_correction_mean vs run
χ² / ndf 93.72 / 84
p0 −170.7 ± 692.9
pull
Entries 85
Mean −61.86
Std Dev 0

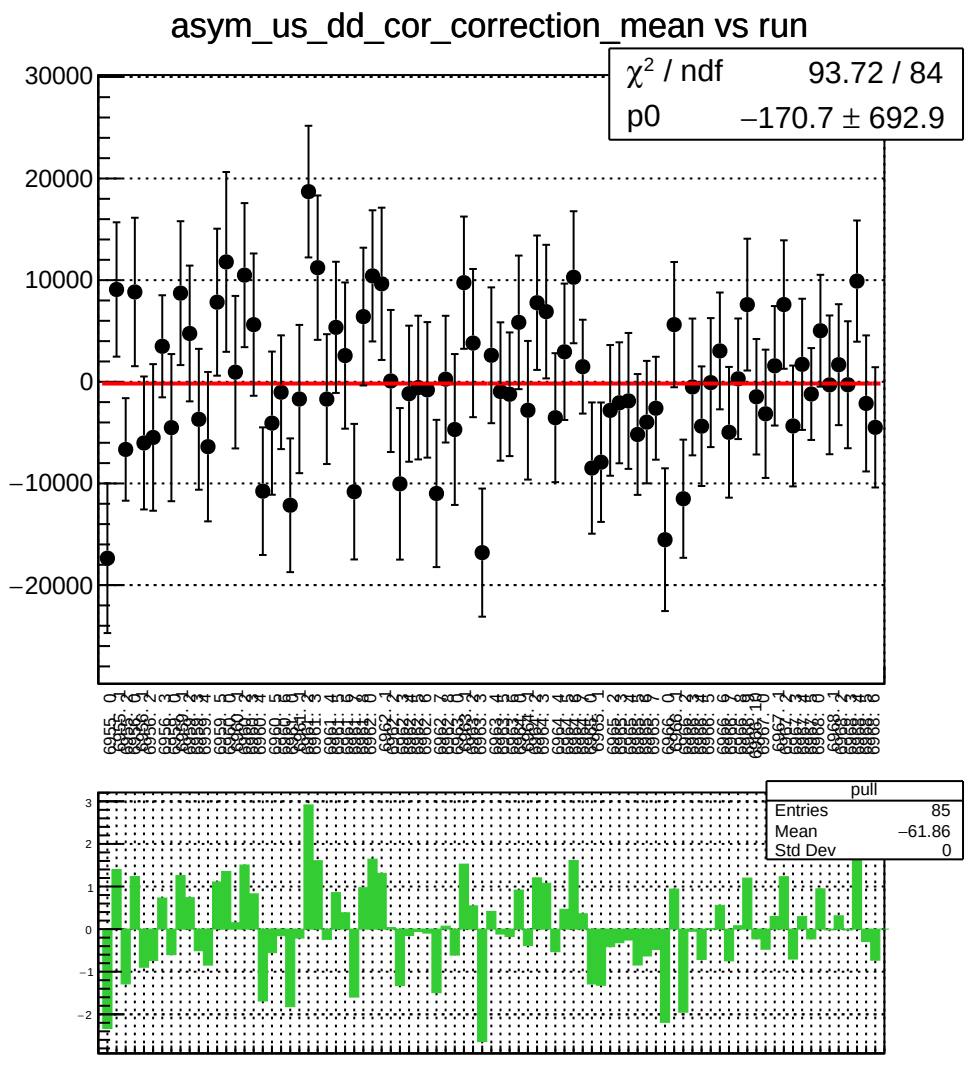

pull1D
Entries 85
Mean 0.009984
Std Dev 1.05

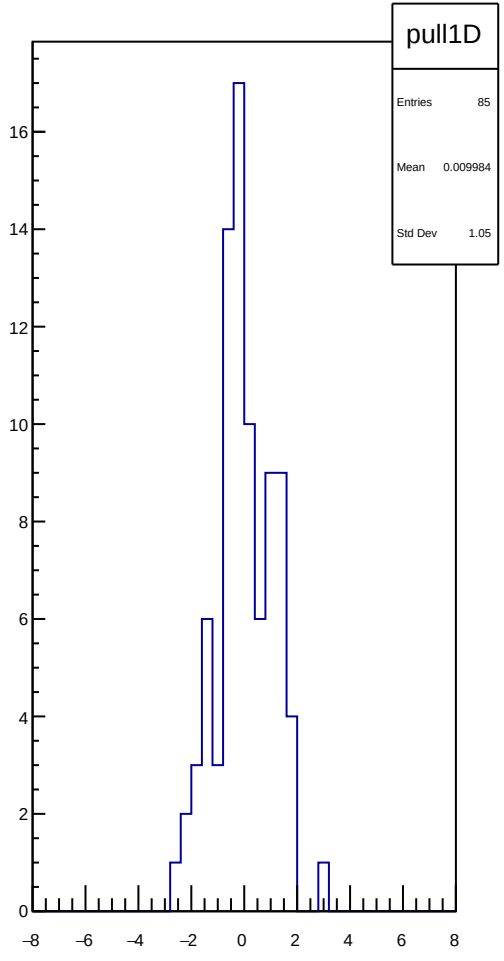

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.098e+04 / 84
p0 625.8 ± 0.4899
850
800
750
700
650
600
550
500

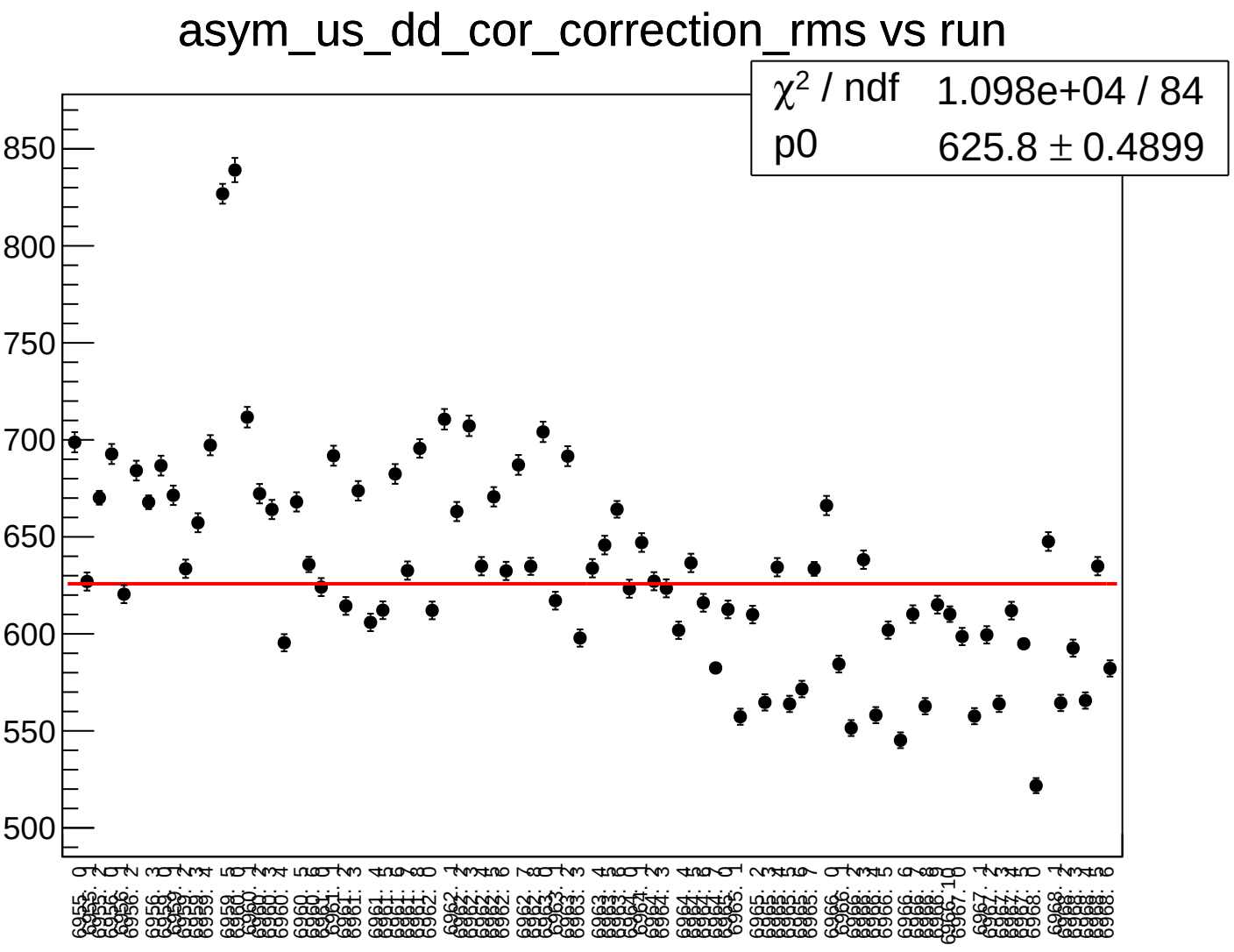

cor_asym_us_dd_mean vs run
χ² / ndf 97.86 / 84
p0 510.8 ± 852.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 1494
Std Dev 0
2
1
0
−1
−2
−3

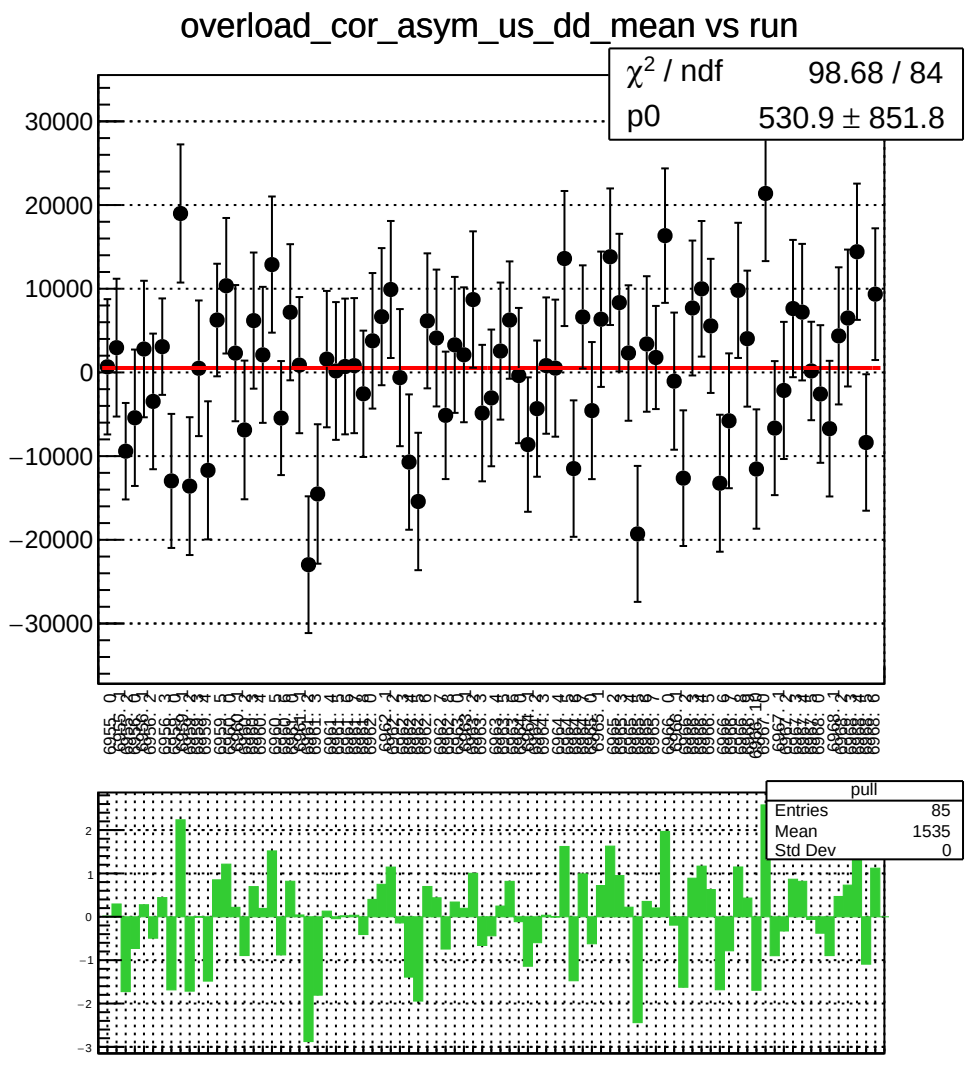

pull1D
Entries 85
Mean 0.00256
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

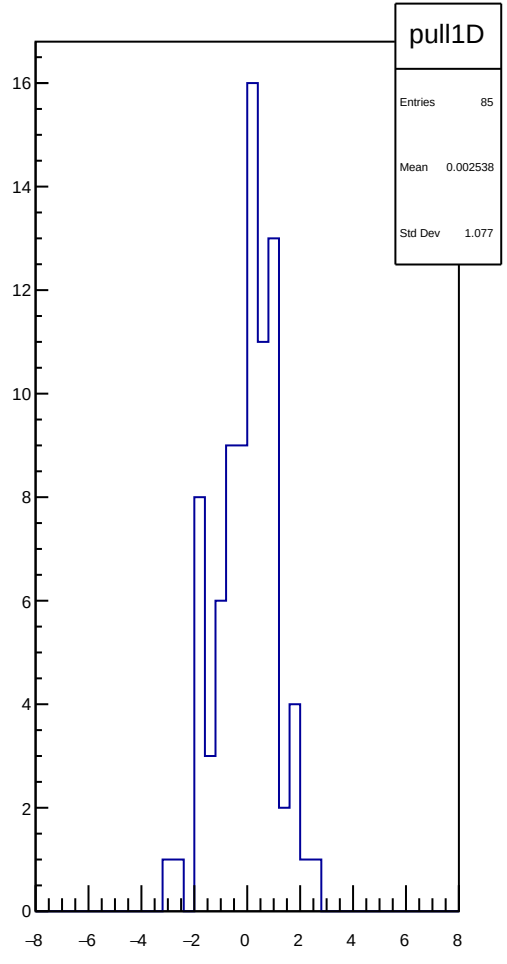

cor_asym_us_dd_rms vs run
χ² / ndf 94.31 / 84
p0 772.5 ± 0.6027
800
790
780
770
760

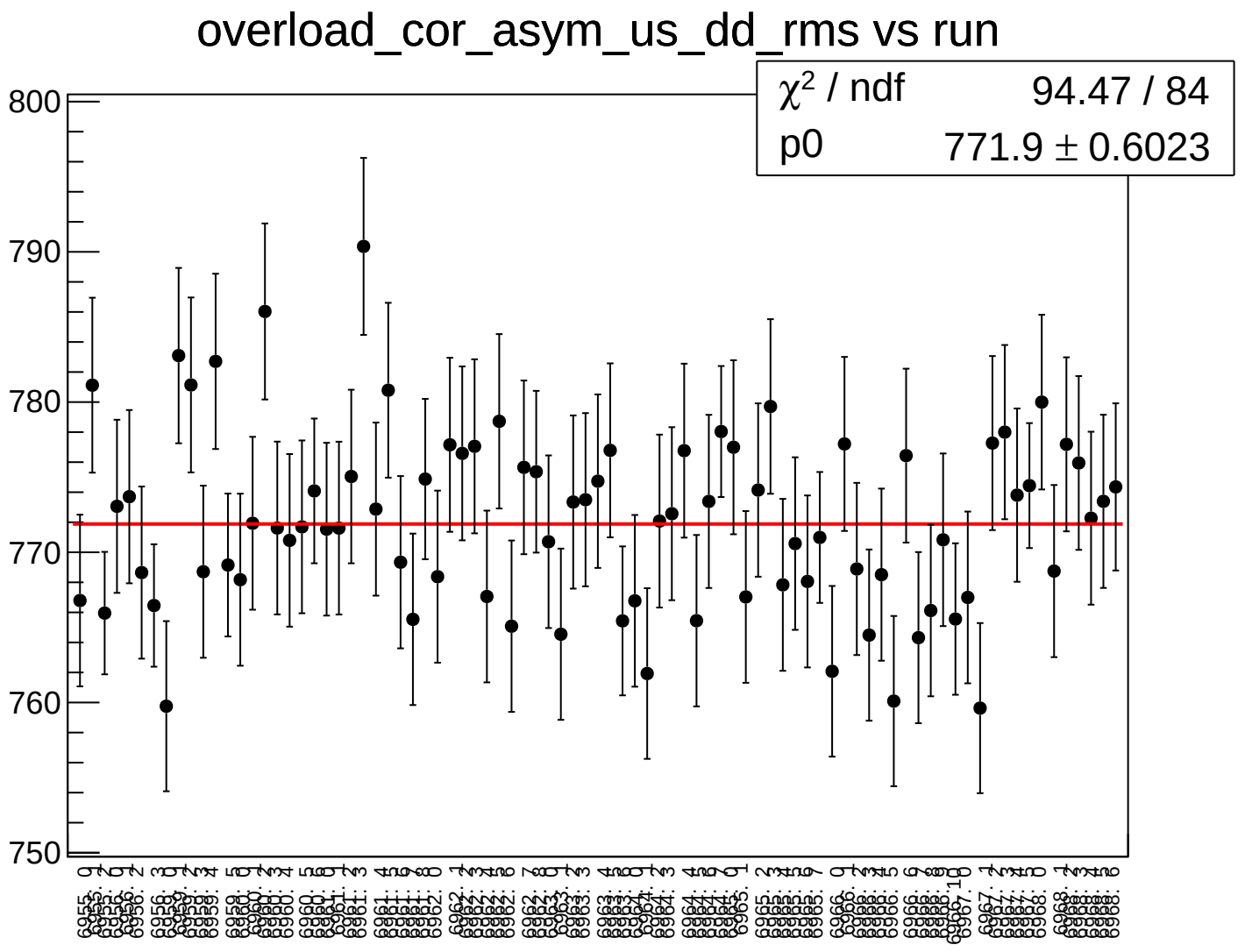

asym_us_dd_cor_correction_mean vs run
χ² / ndf 93.72 / 84
p0 −170.7 ± 692.9
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −61.86
Std Dev 0
3
2
1
0
−1
−2

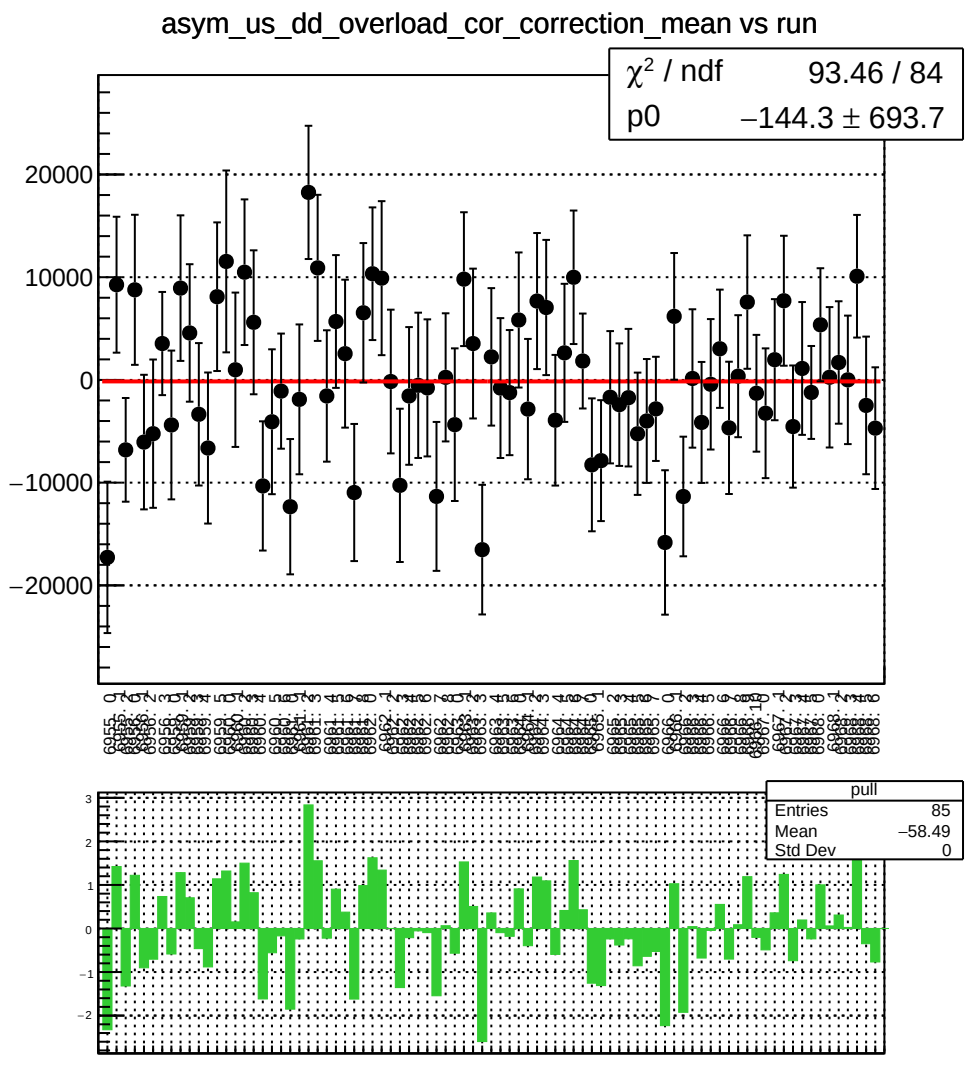

pull1D
Entries 85
Mean 0.009984
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

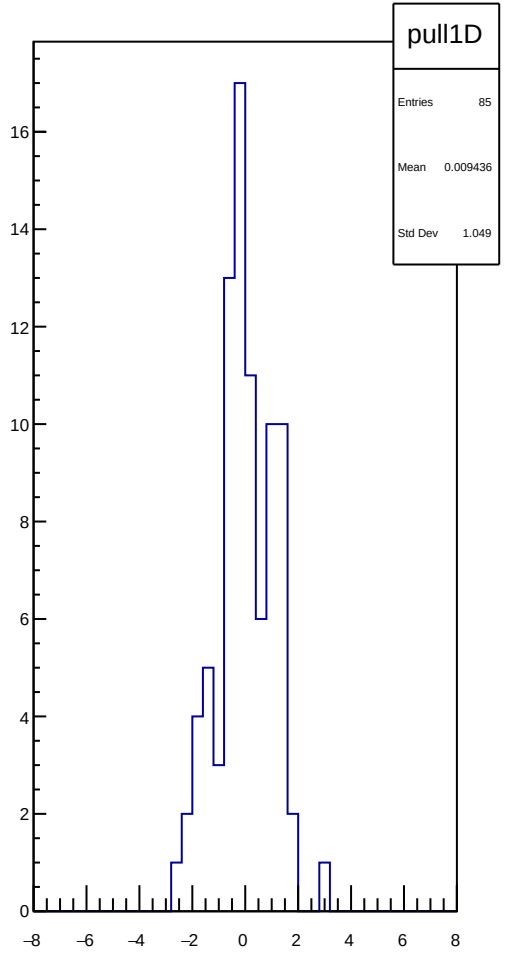

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.098e+04 / 84
p0 625.8 ± 0.4899
850
800
750
700
650
600
550
500

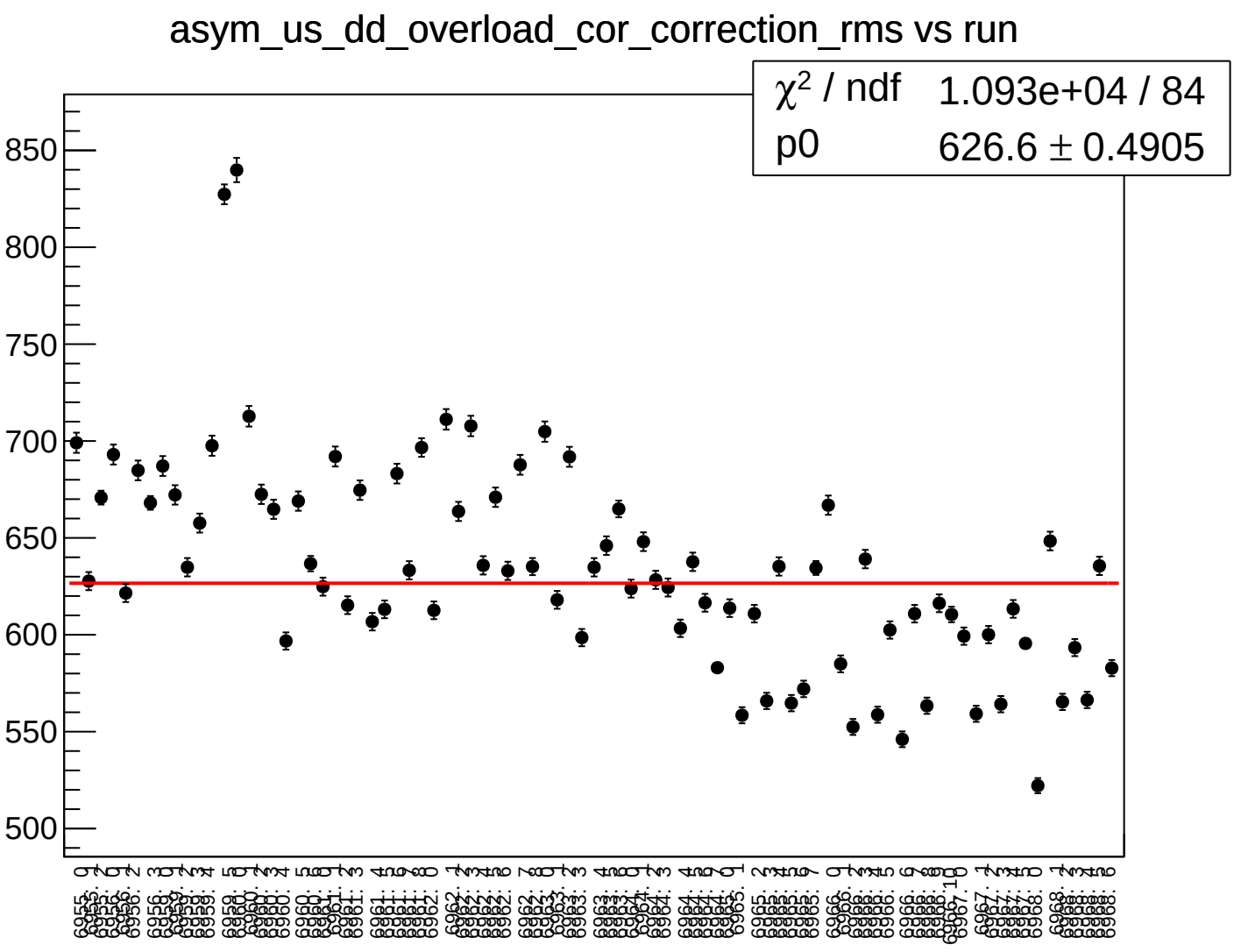

overload_cor_asym_us_dd_mean vs run
χ² / ndf 98.68 / 84
p0 530.9 ± 851.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 1535
Std Dev 0
2
1
0
−1
−2
−3

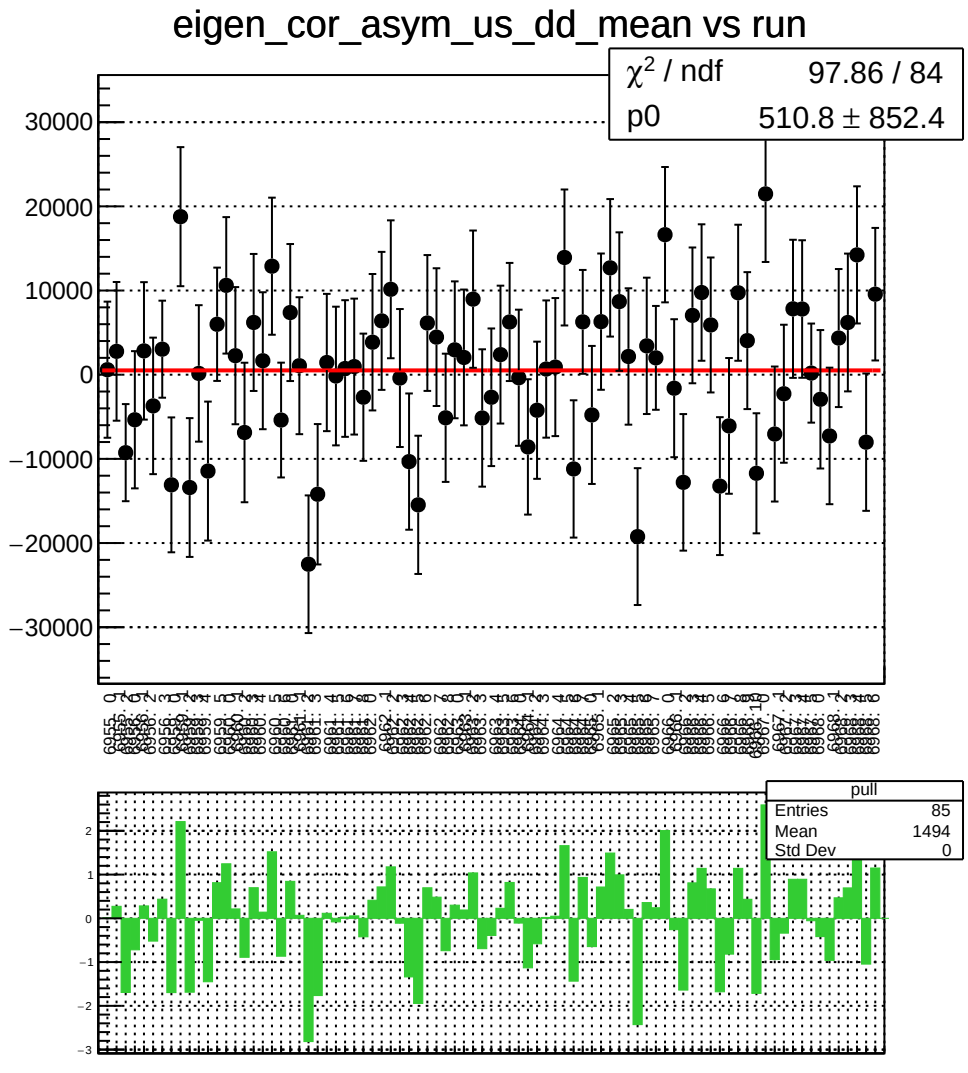

pull1D
Entries 85
Mean 0.002538
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

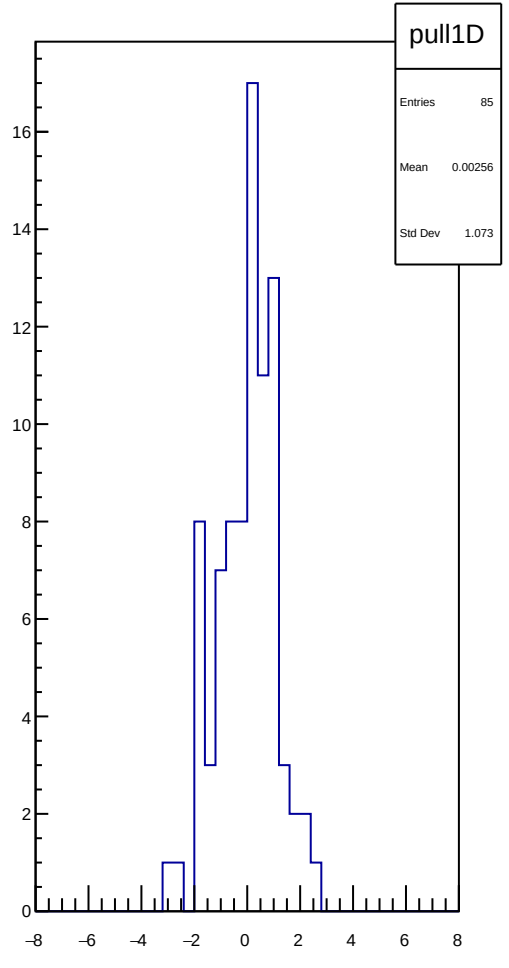

overload_cor_asym_us_dd_rms vs run
χ² / ndf 94.47 / 84
p0 771.9 ± 0.6023
800
790
780
770
760
750

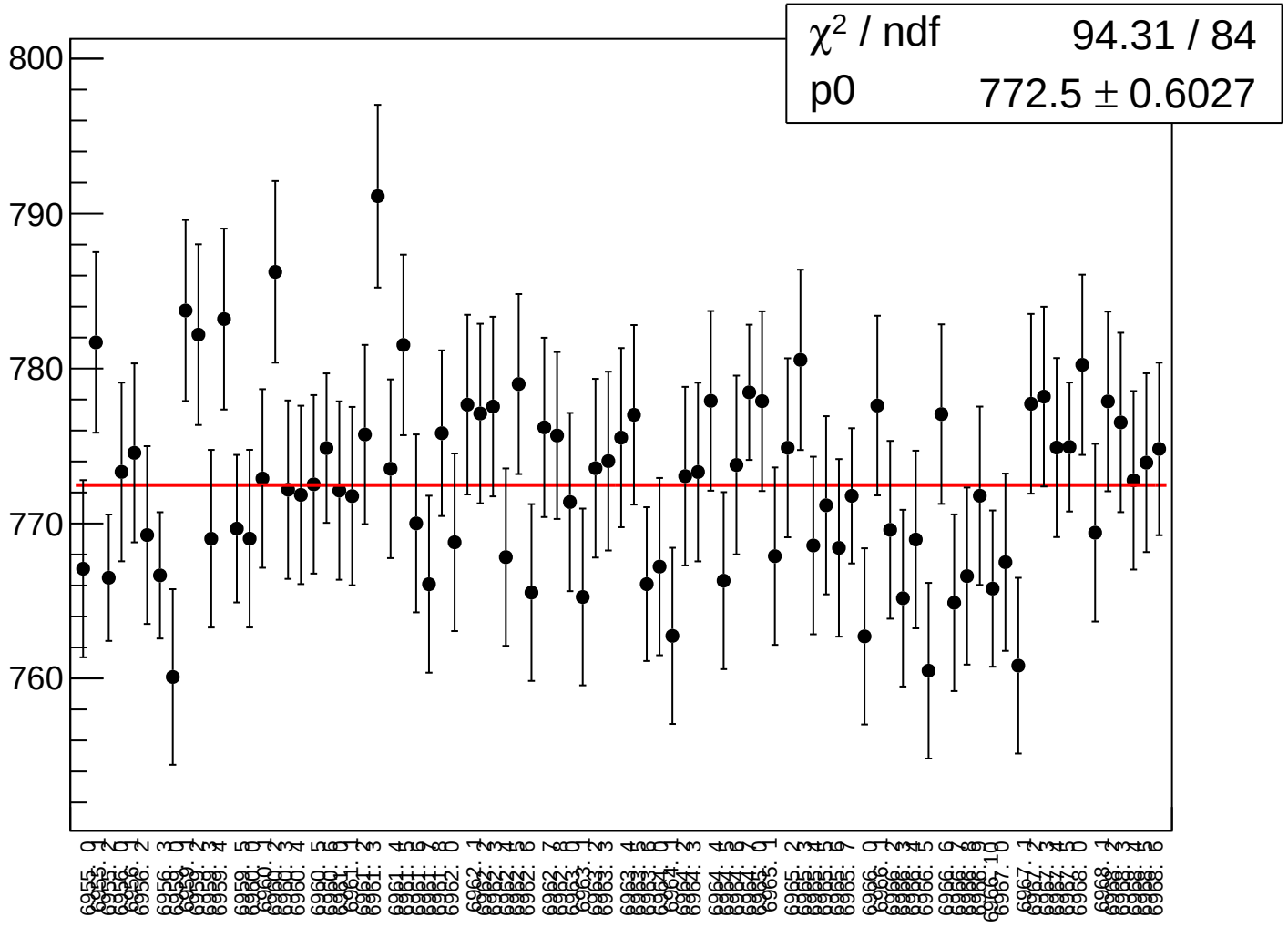

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 93.46 / 84
p0 −144.3 ± 693.7
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −58.49
Std Dev 0
3
2
1
0
−1
−2

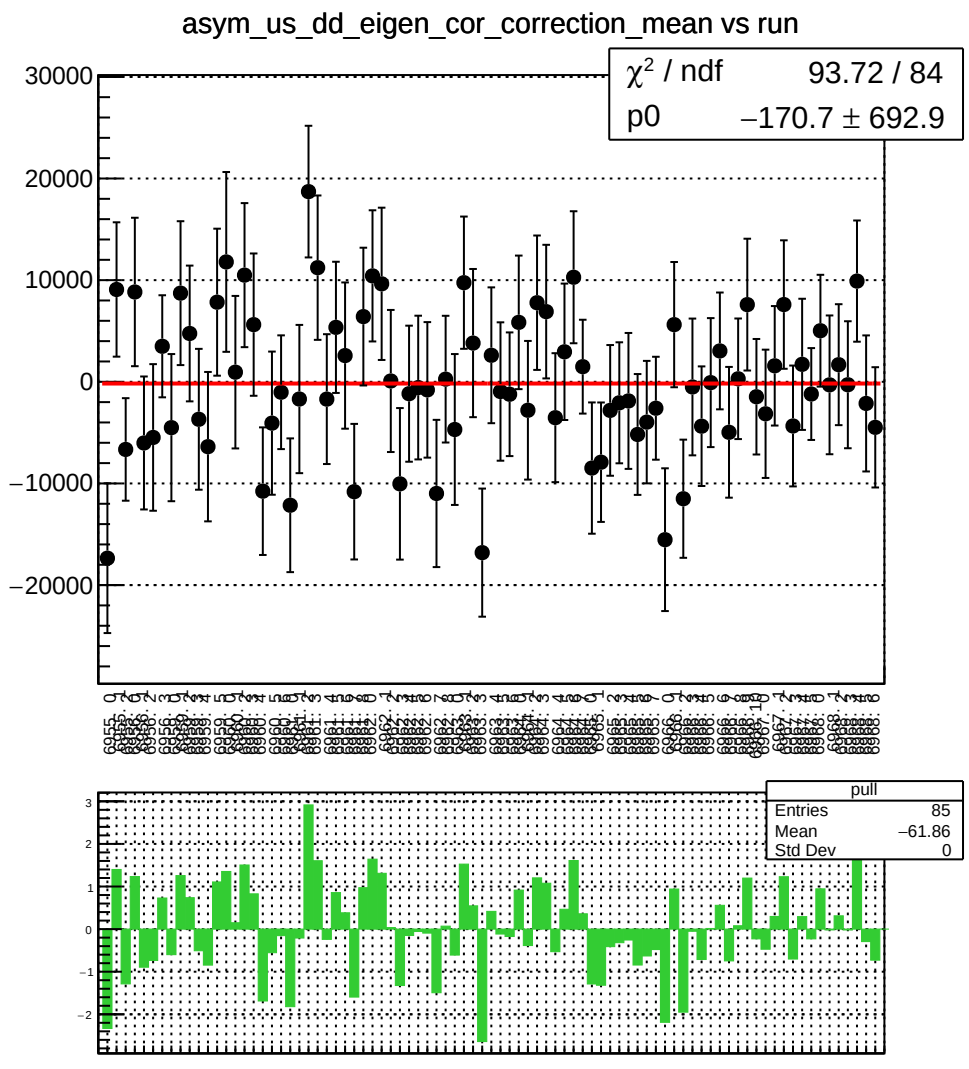

pull1D
Entries 85
Mean 0.009436
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

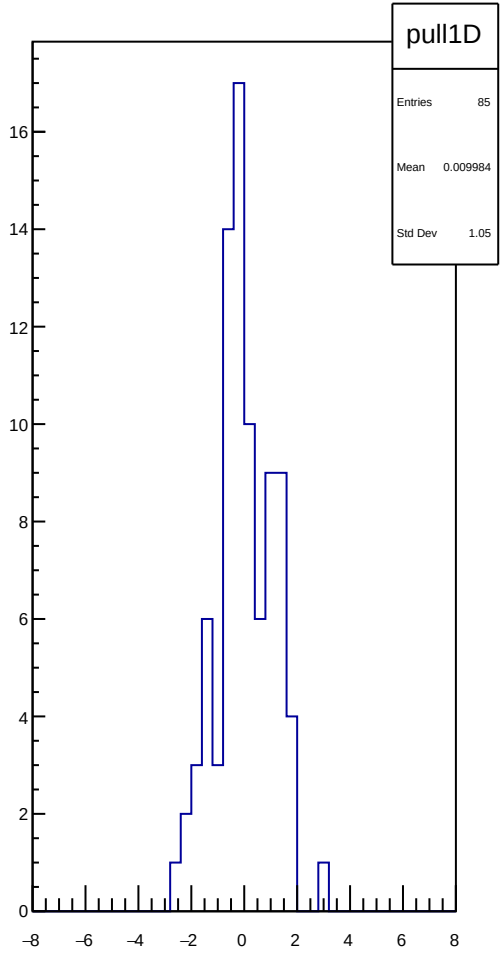

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.093e+04 / 84
p0 626.6 ± 0.4905
850
800
750
700
650
600
550
500

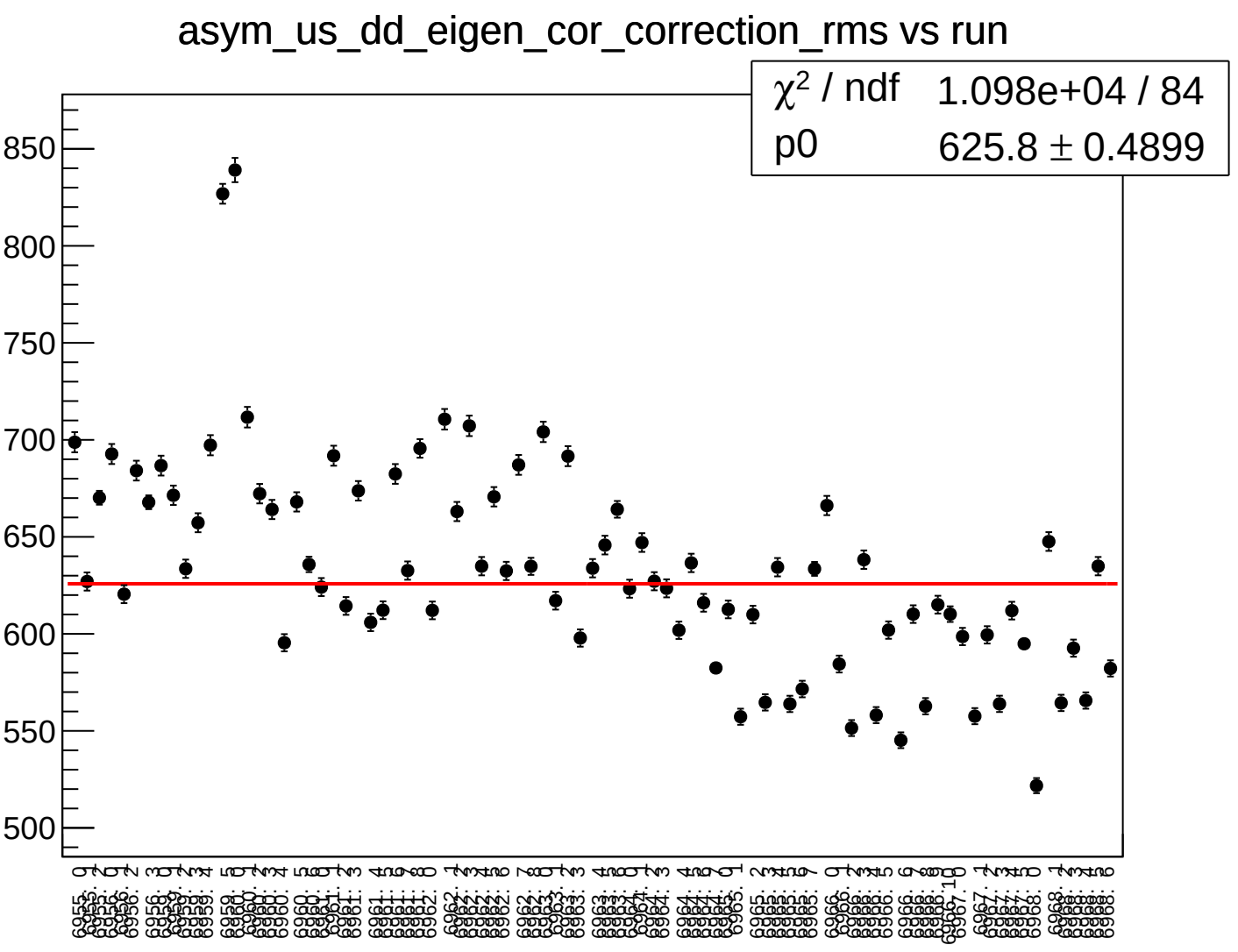

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 97.86 / 84
p0 510.8 ± 852.4
pull
Entries 85
Mean 1494
Std Dev 0

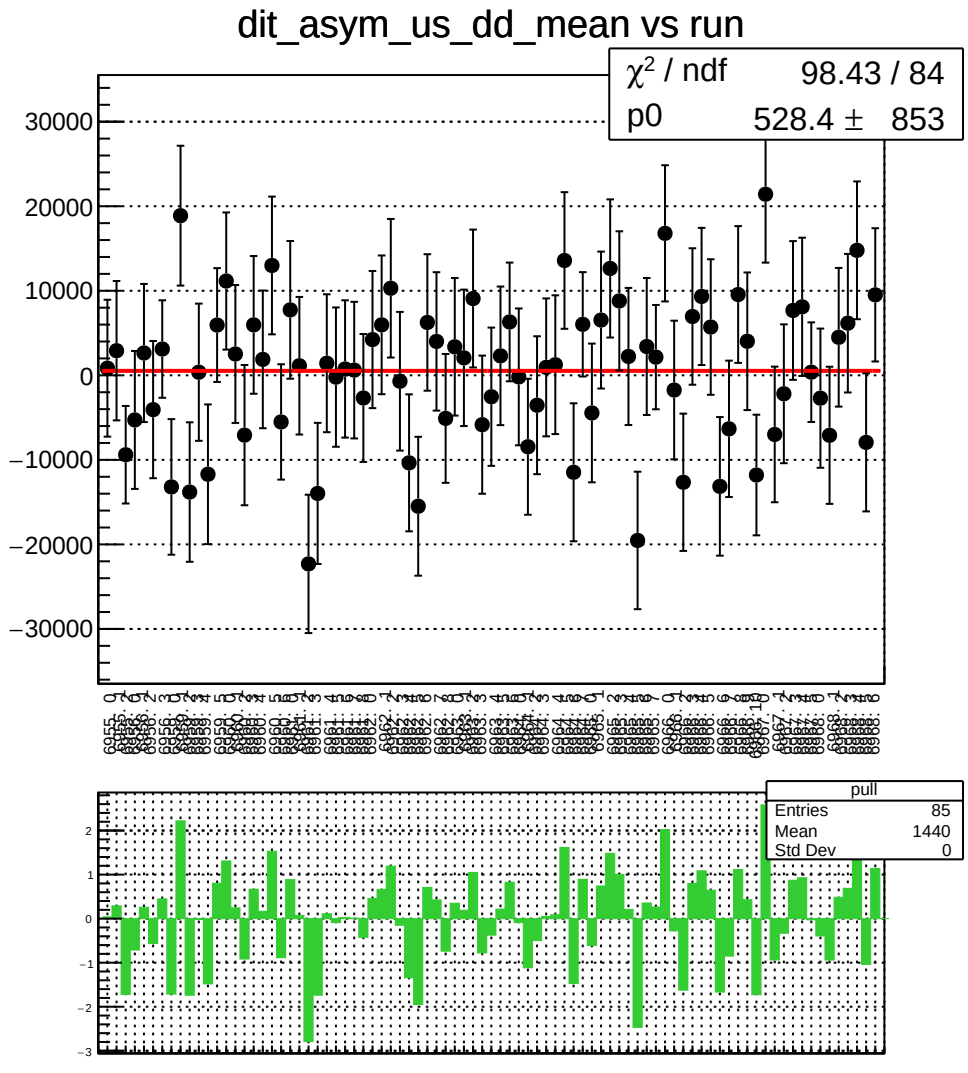

pull1D
Entries 85
Mean 0.00256
Std Dev 1.073

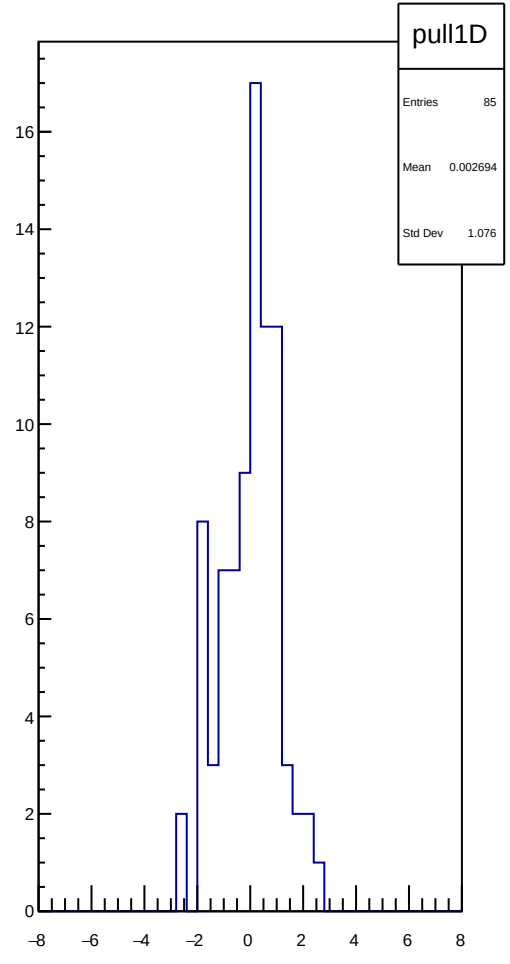

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 94.31 / 84
p0 772.5 ± 0.6027
800
790
780
770
760

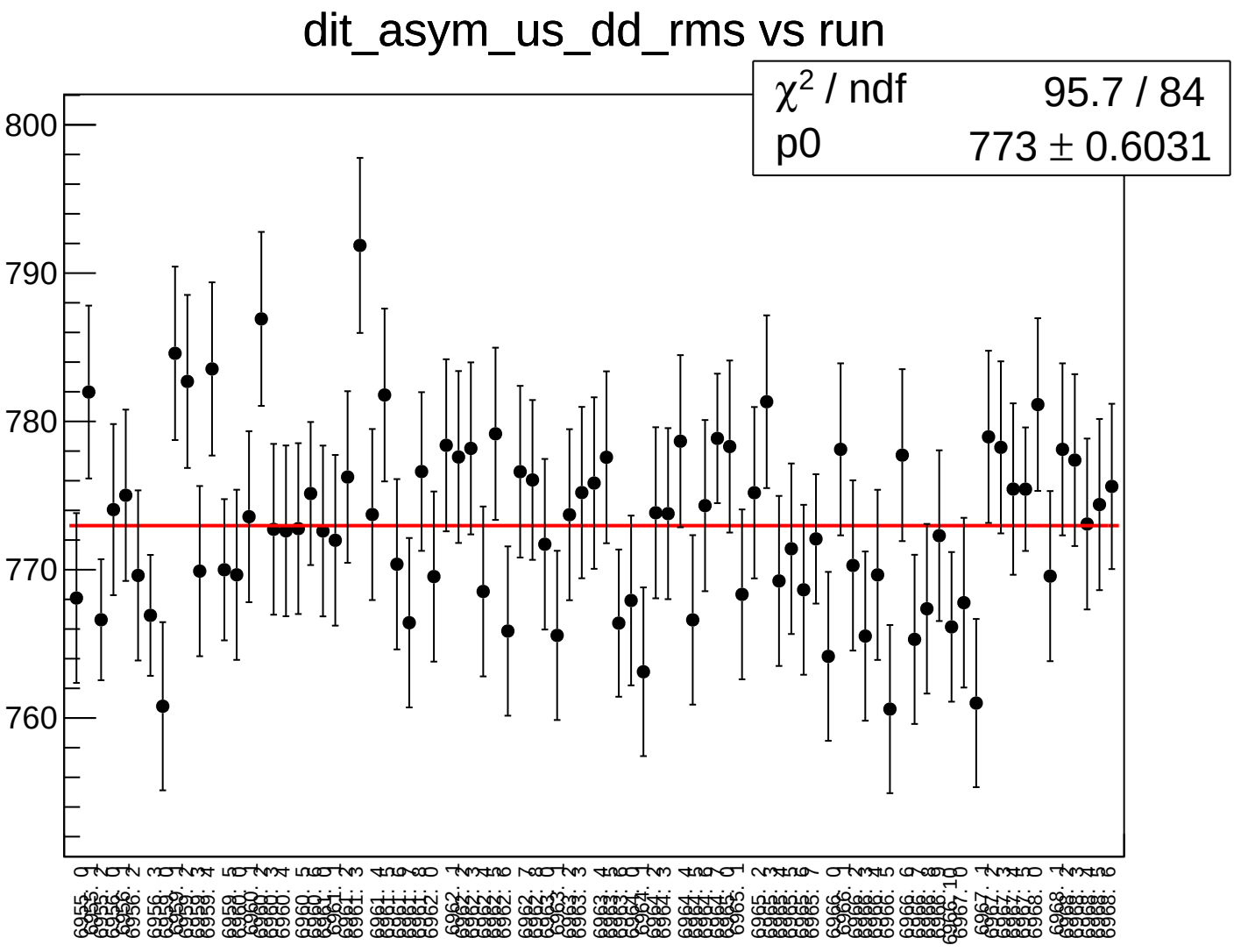

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.72 / 84
p0 −170.7 ± 692.9
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −61.86
Std Dev 0
3
2
1
0
−1
−2

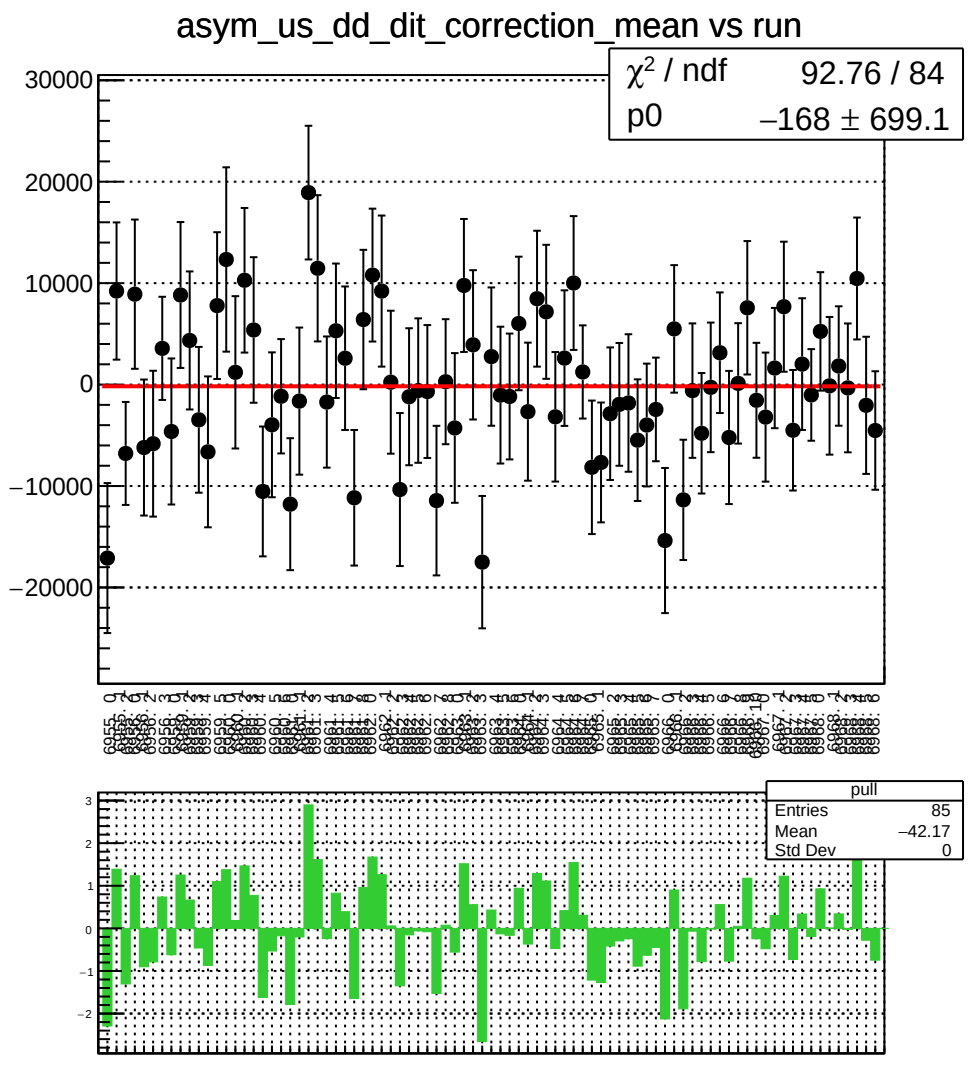

pull1D
Entries 85
Mean 0.009984
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

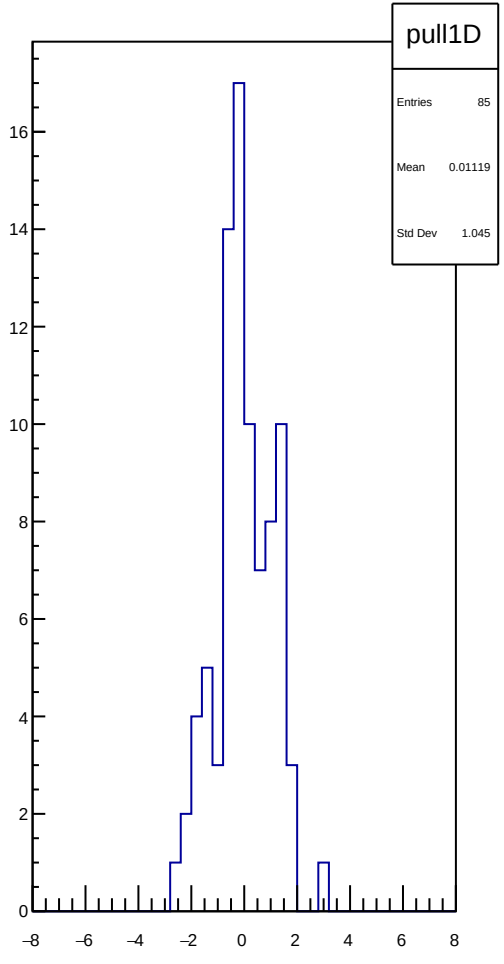

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.098e+04 / 84
p0 625.8 ± 0.4899
850
800
750
700
650
600
550
500

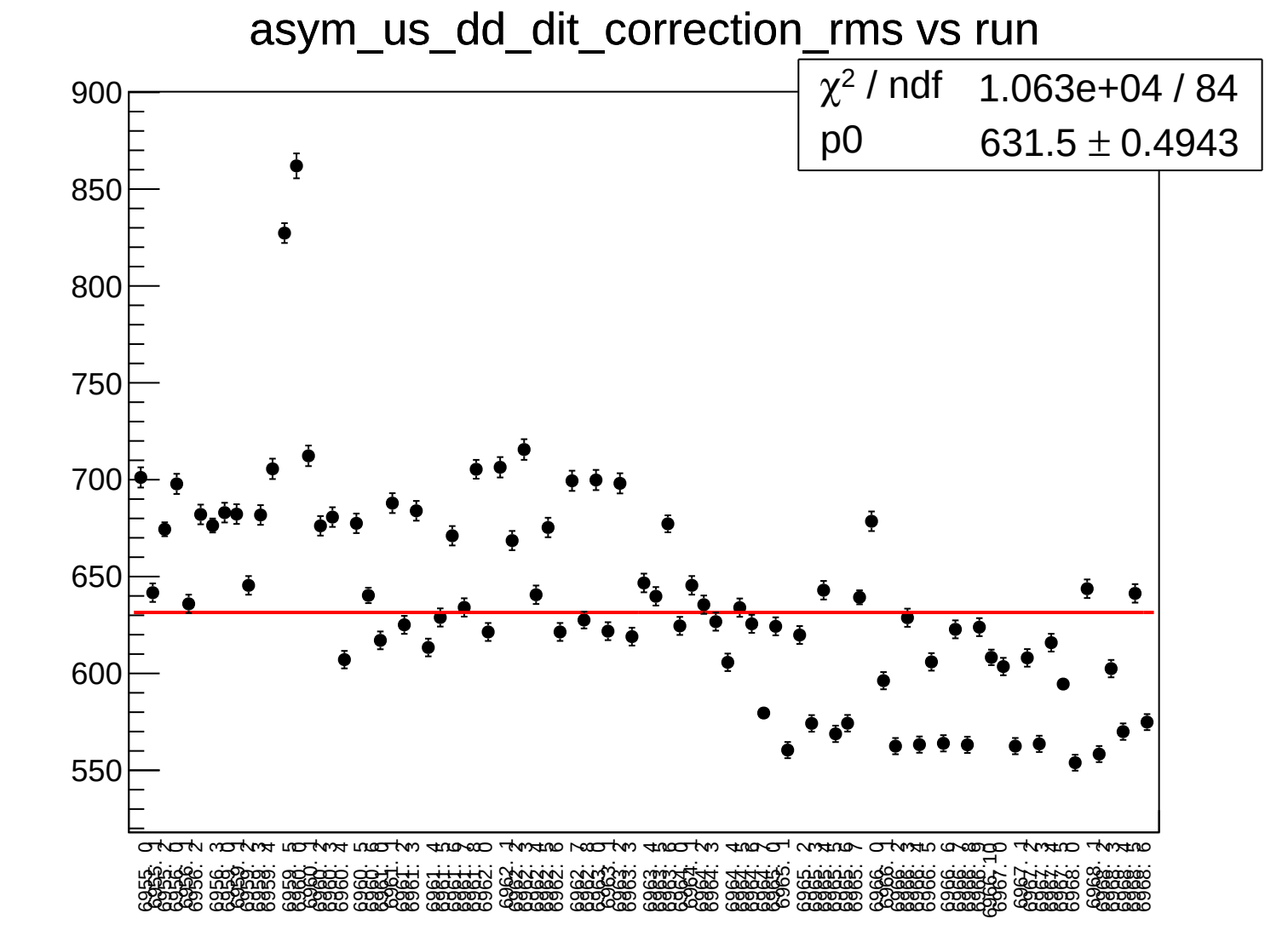

dit_asym_us_dd_mean vs run
χ² / ndf 98.43 / 84
p0 528.4 ± 853
pull
Entries 85
Mean 1440
Std Dev 0

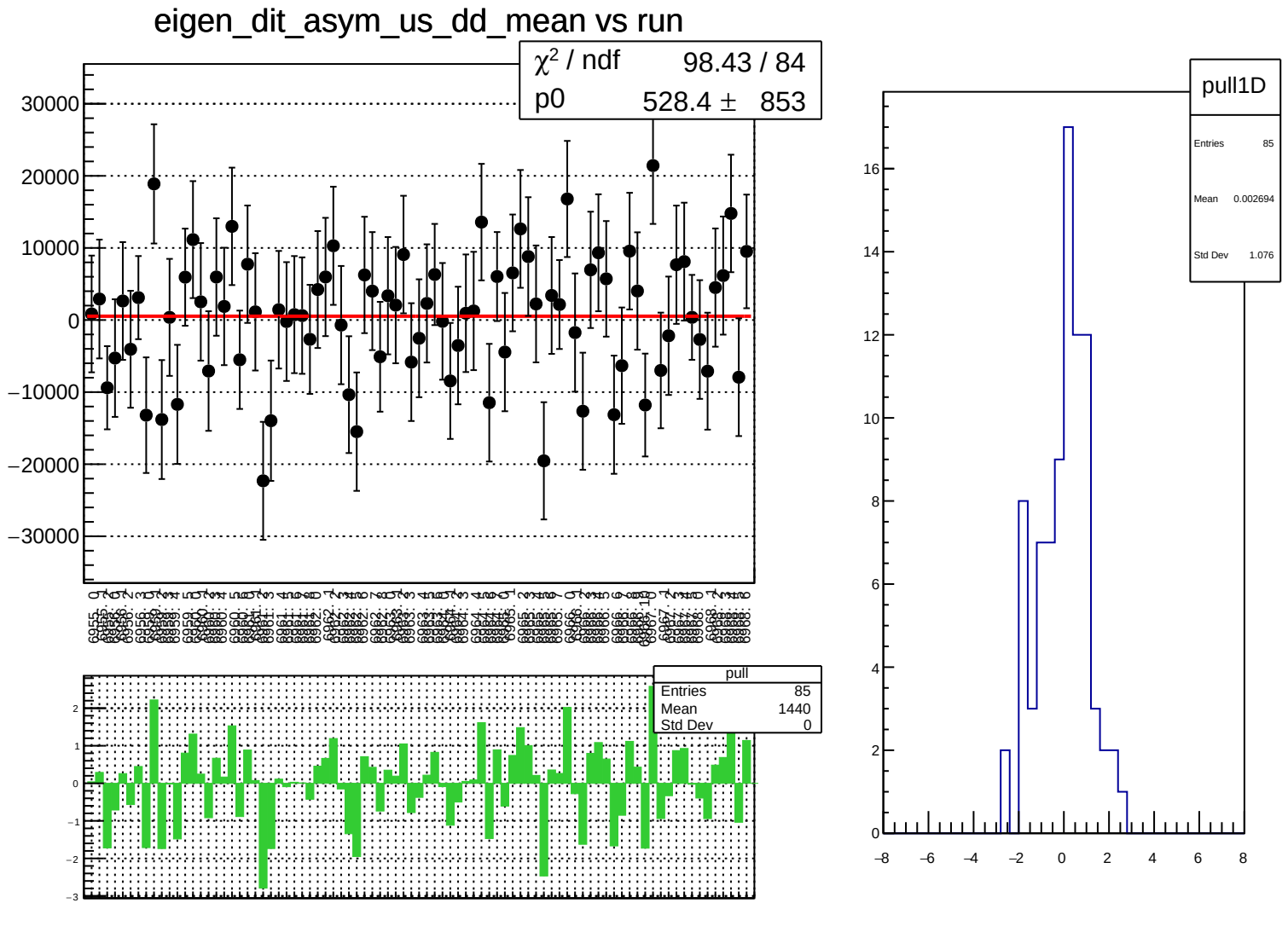

pull1D
Entries 85
Mean 0.002694
Std Dev 1.076

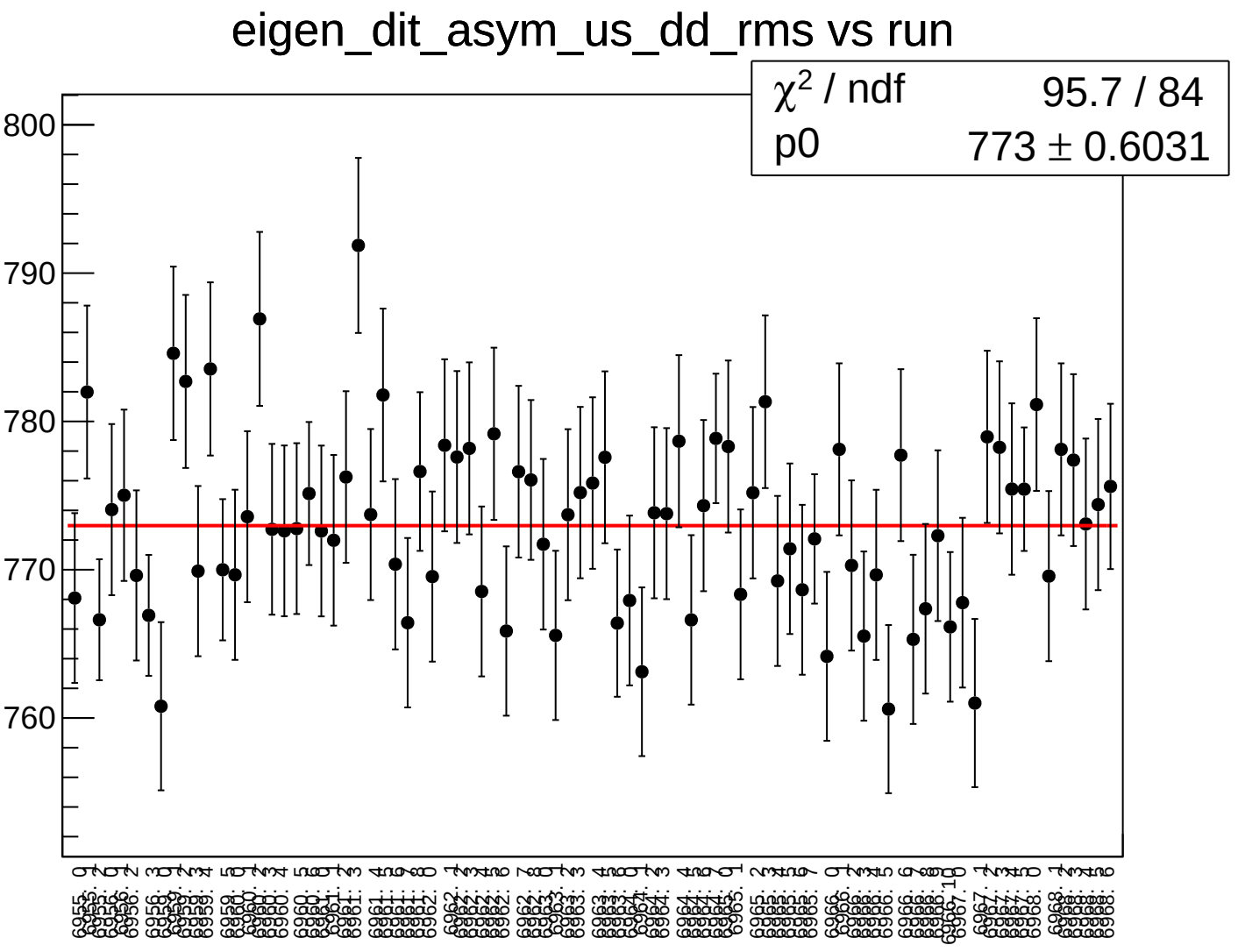

dit_asym_us_dd_rms vs run
χ² / ndf 95.7 / 84
p0 773 ± 0.6031
800
790
780
770
760

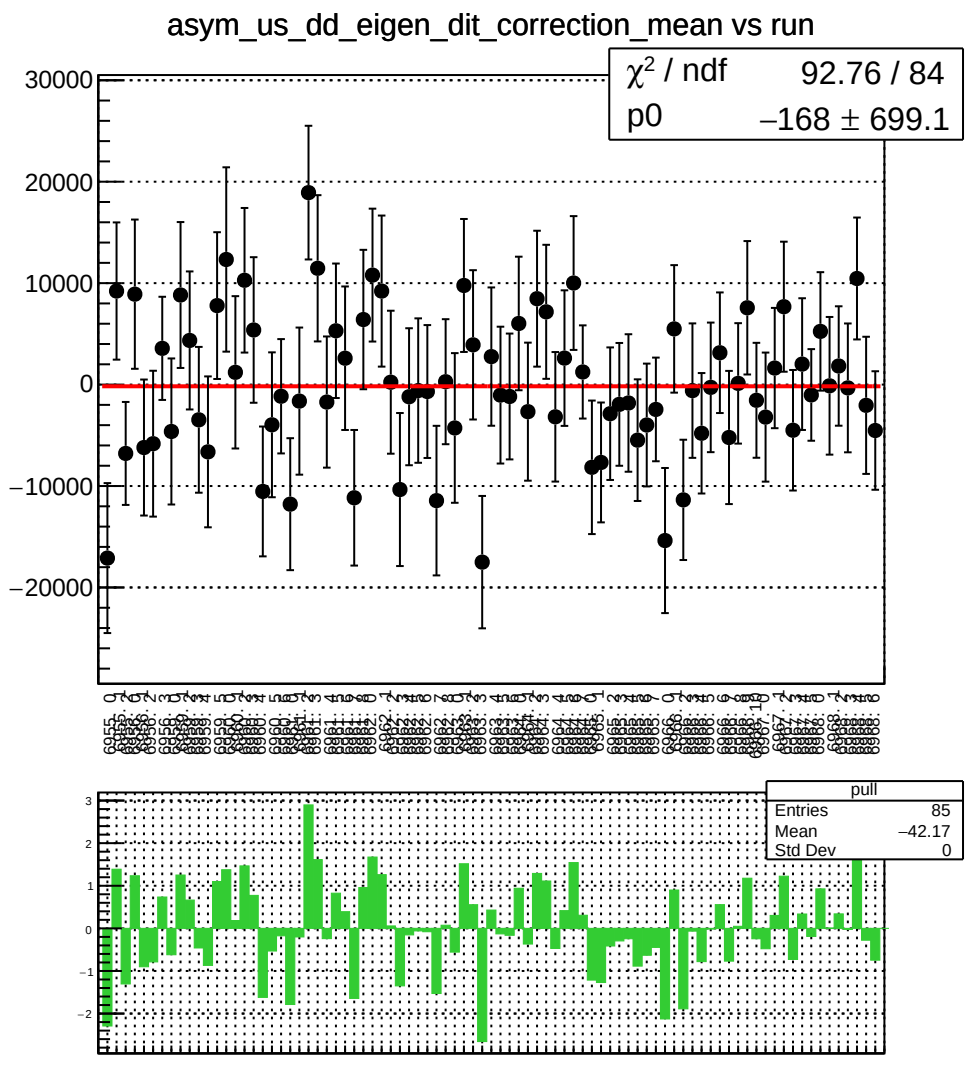

asym_us_dd_dit_correction_mean vs run
χ² / ndf 92.76 / 84
p0 −168 ± 699.1
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −42.17
Std Dev 0
3
2
1
0
−1
−2

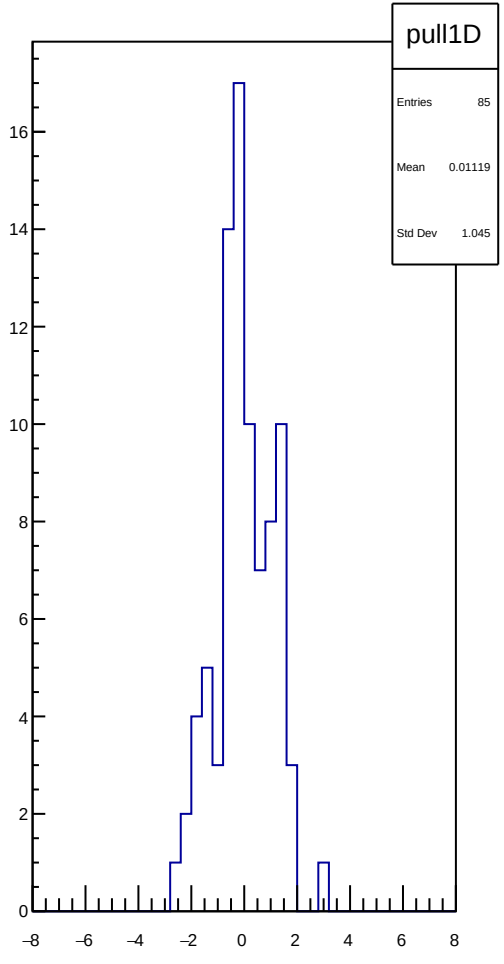

pull1D
Entries 85
Mean 0.01119
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

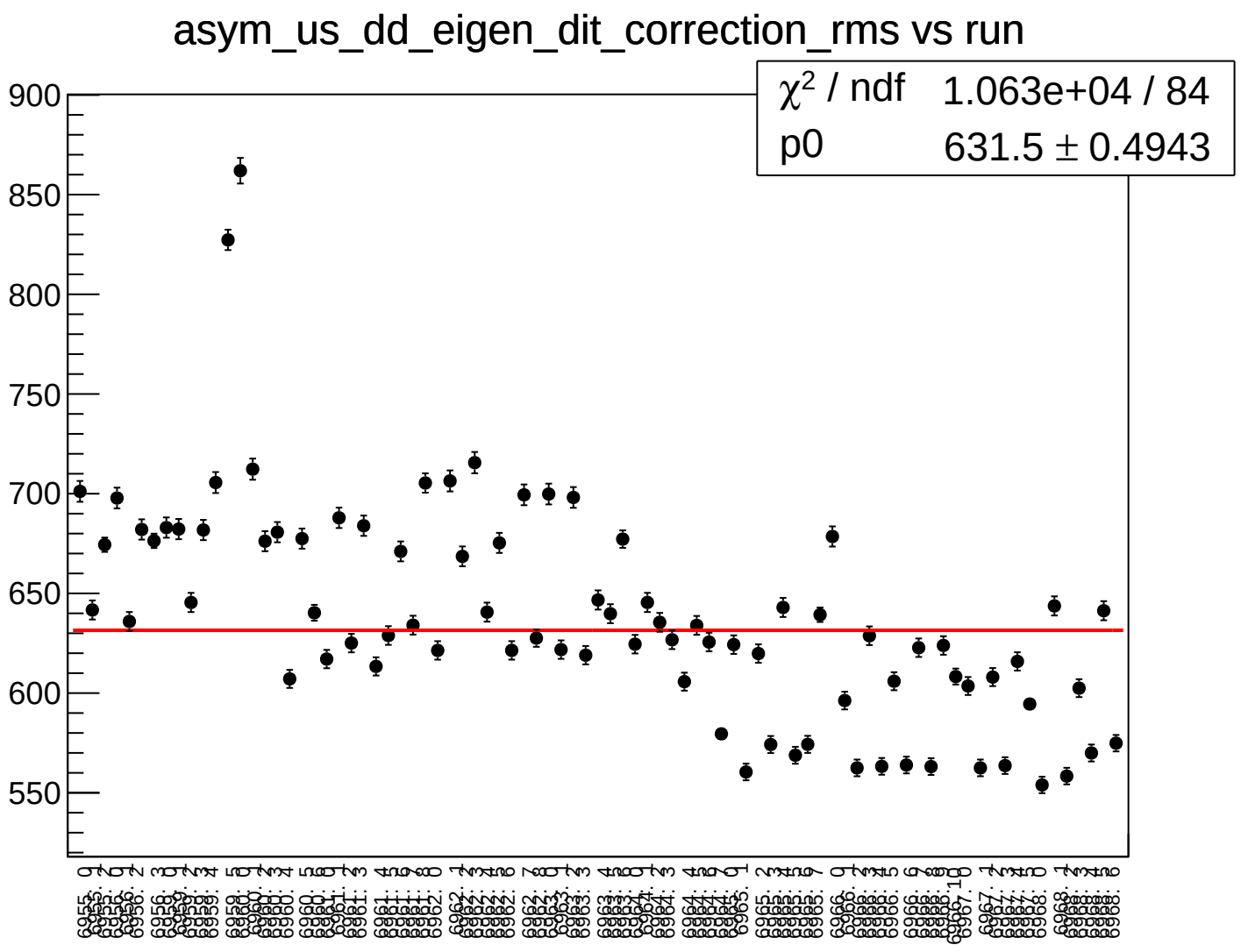

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.063e+04 / 84
p0 631.5 ± 0.4943
900
850
800
750
700
650
600
550

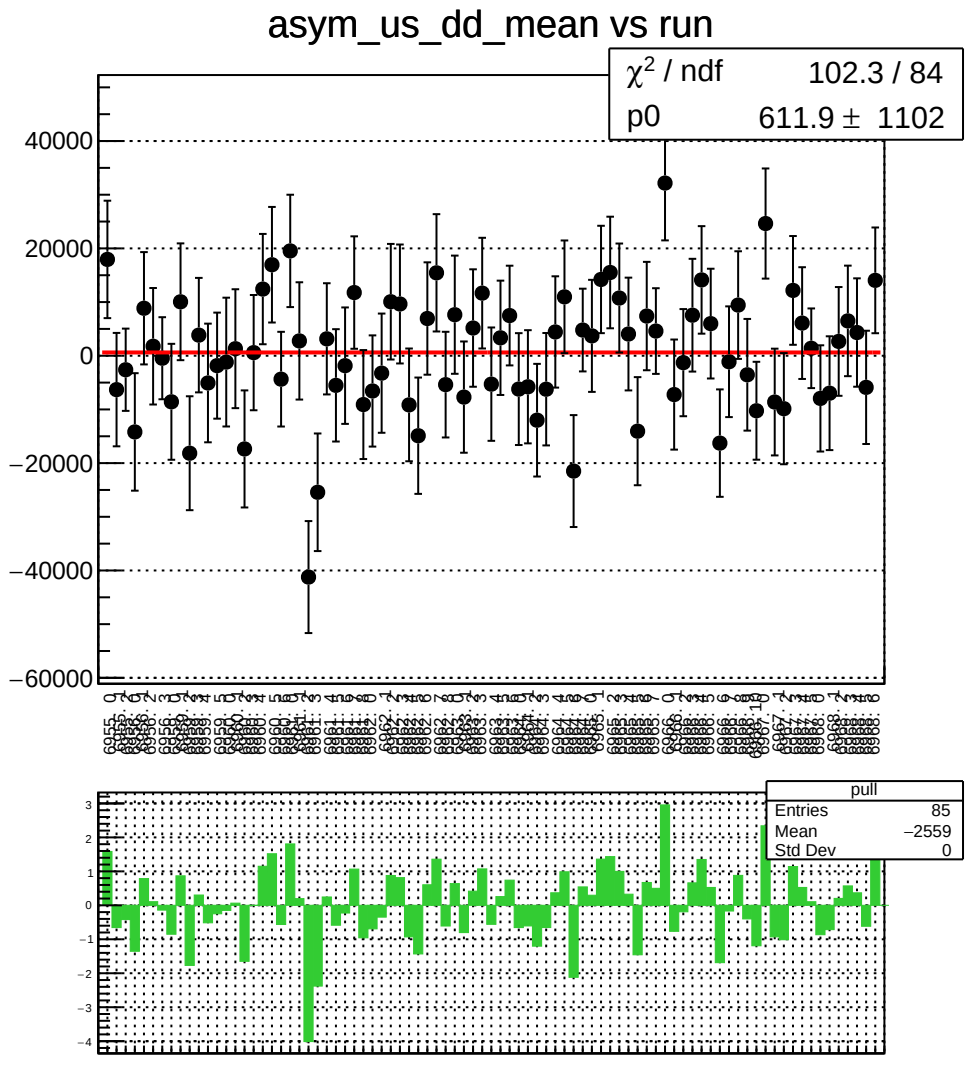

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 98.43 / 84
p0 528.4 ± 853
pull
Entries 85
Mean 1440
Std Dev 0
pull1D
Entries 85
Mean 0.002694
Std Dev 1.076

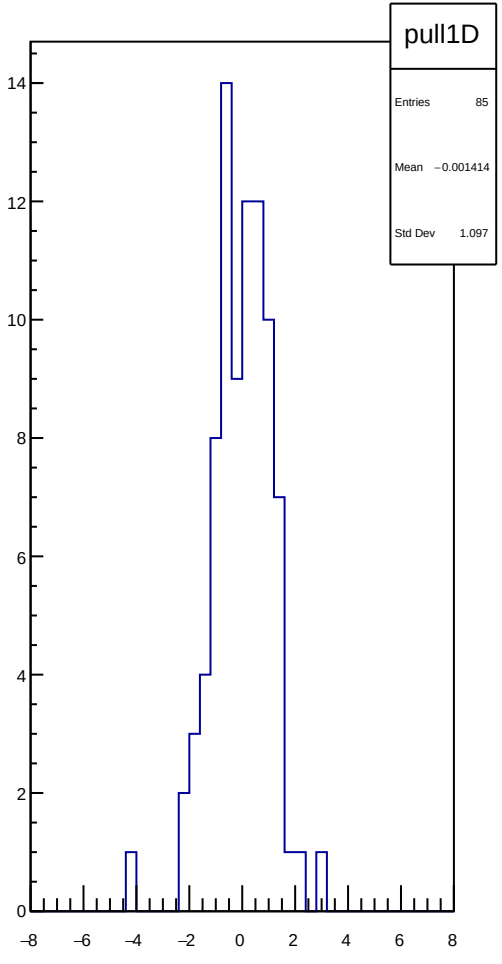

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 95.7 / 84
p0 773 ± 0.6031
800
790
780
770
760

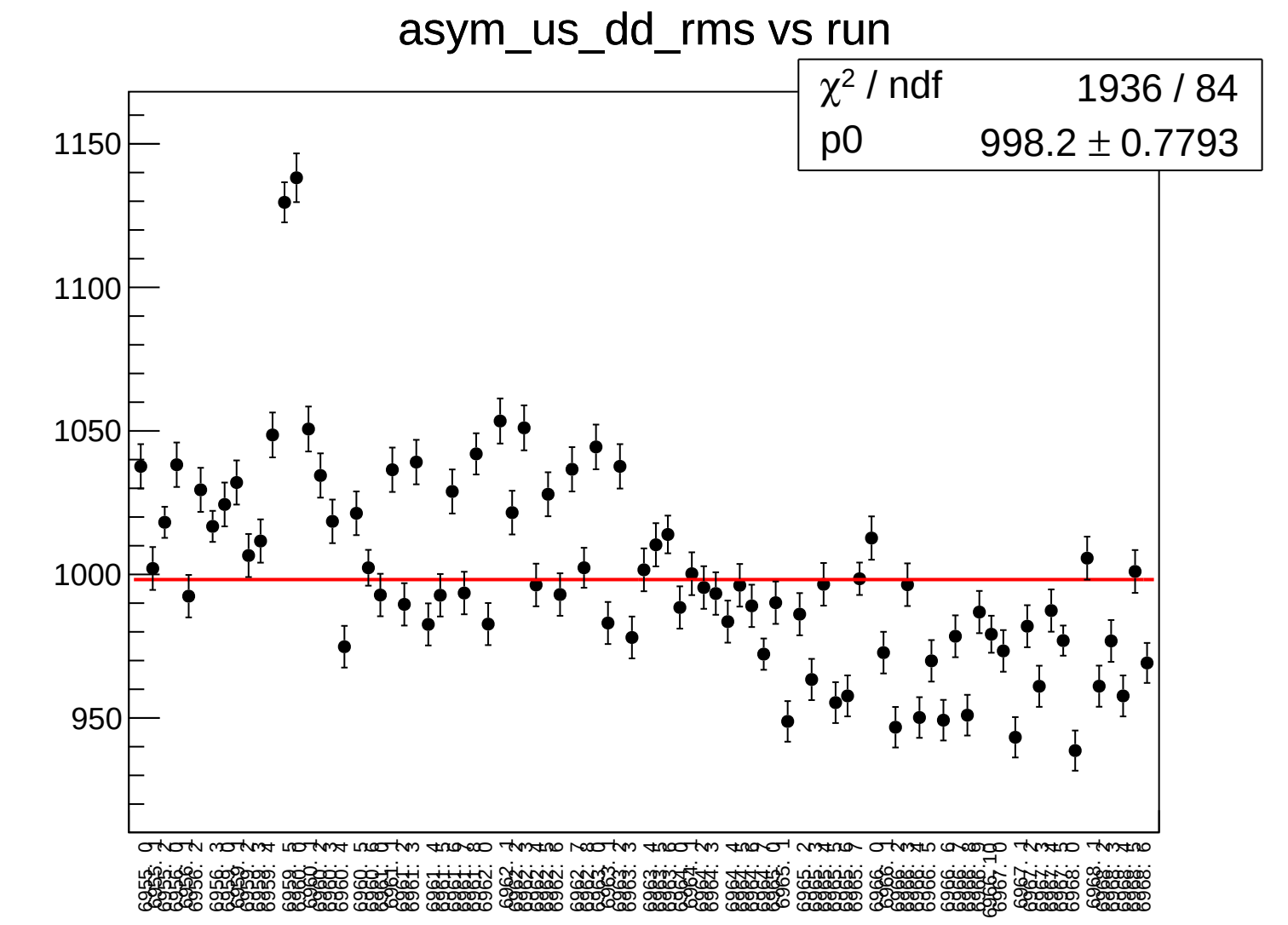

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.76 / 84
p0 −168 ± 699.1
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −42.17
Std Dev 0
3
2
1
0
−1
−2

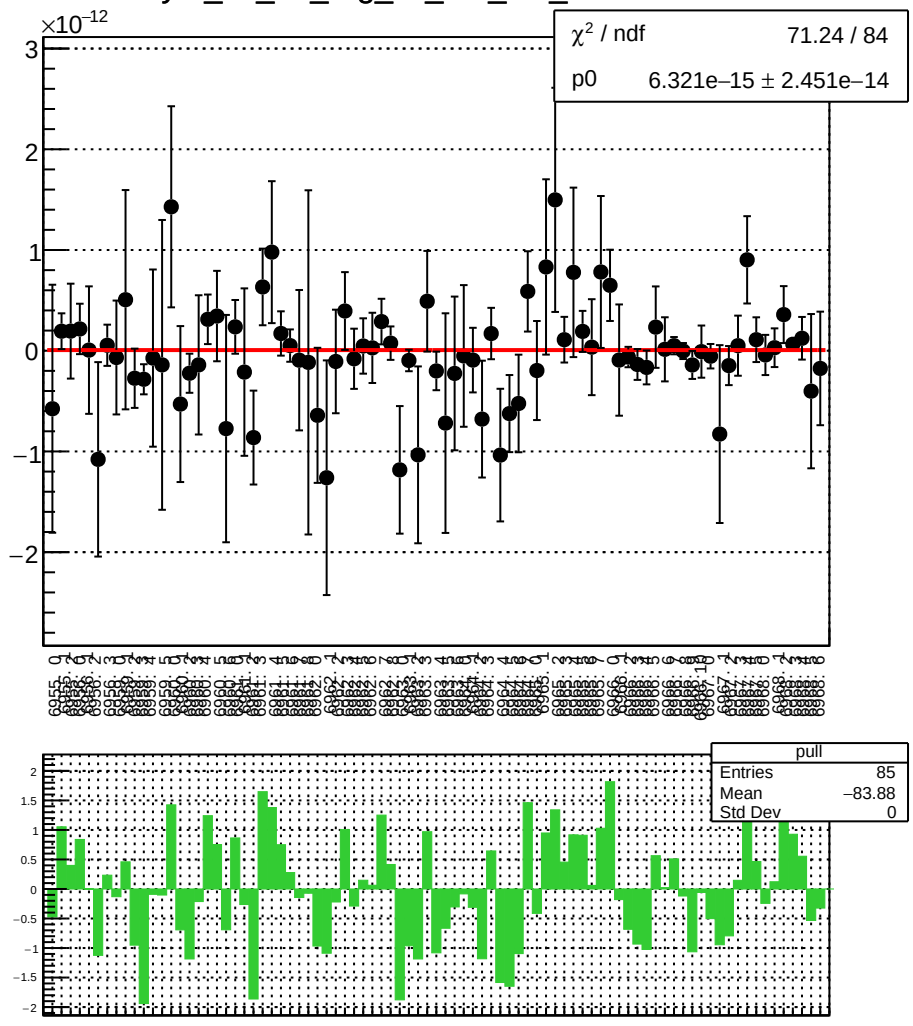

pull1D
Entries 85
Mean 0.01119
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

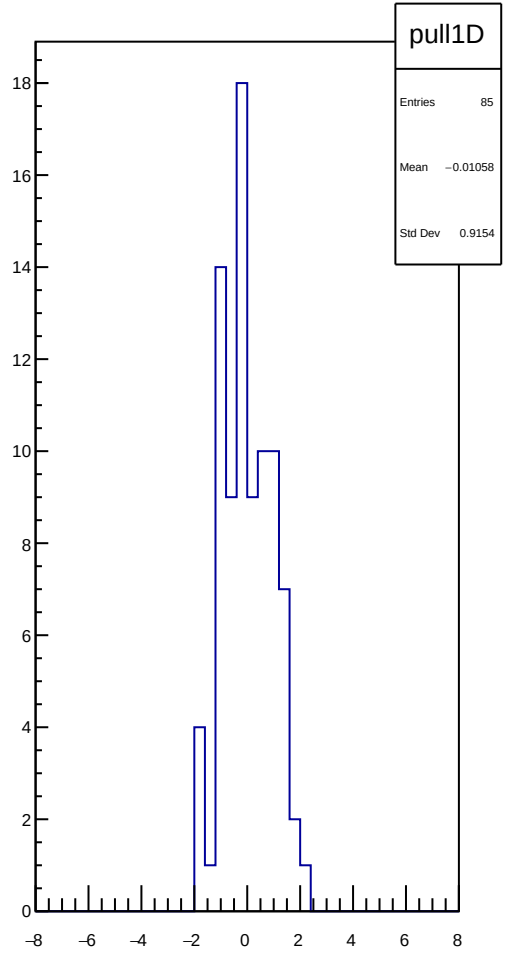

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.063e+04 / 84
p0 631.5 ± 0.4943
900
850
800
750
700
650
600
550

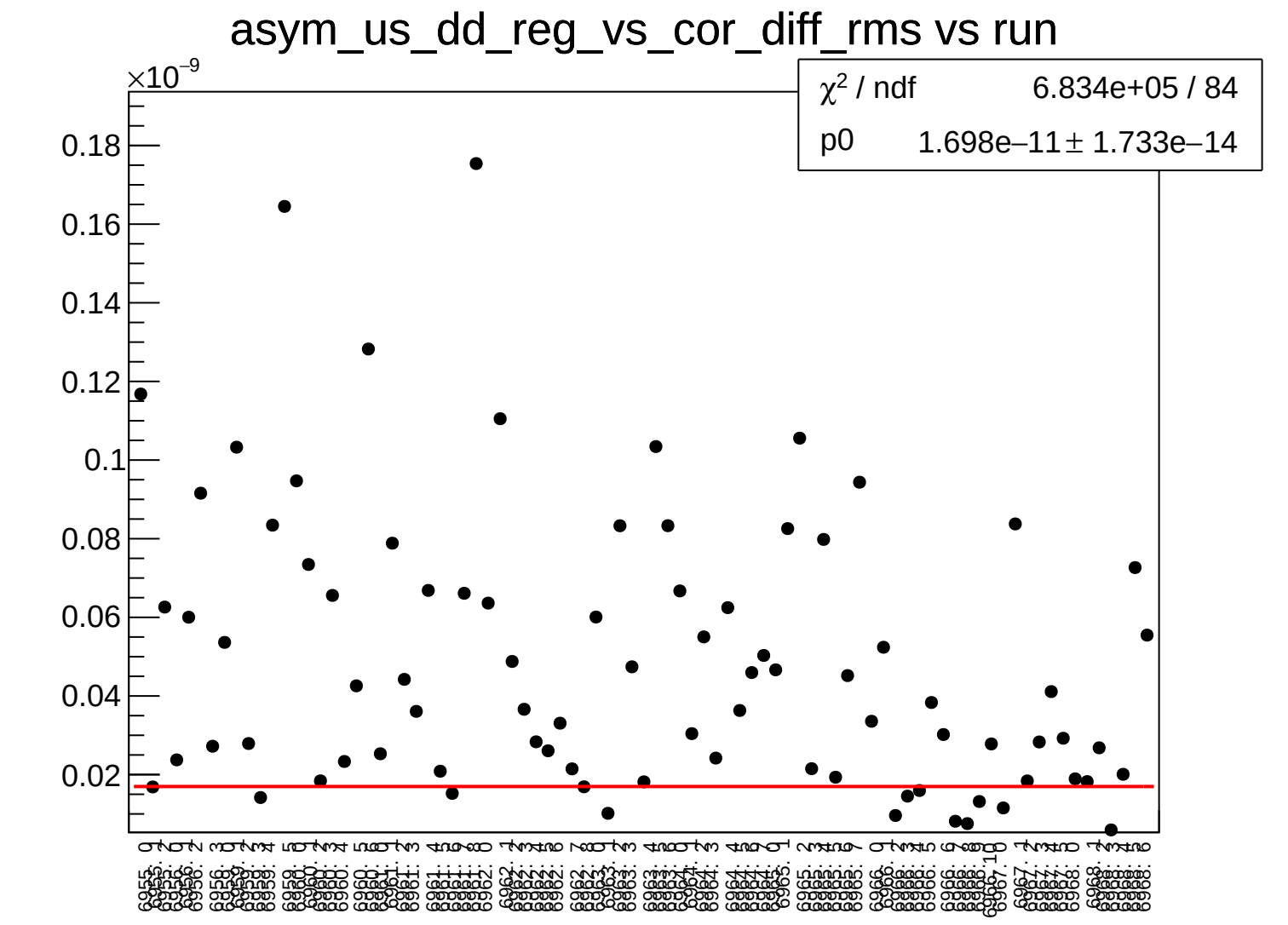

asym_us_dd_mean vs run
χ² / ndf 102.3 / 84
p0 611.9 ± 1102
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −2559
Std Dev 0
3
2
1
0
−1
−2
−3
−4

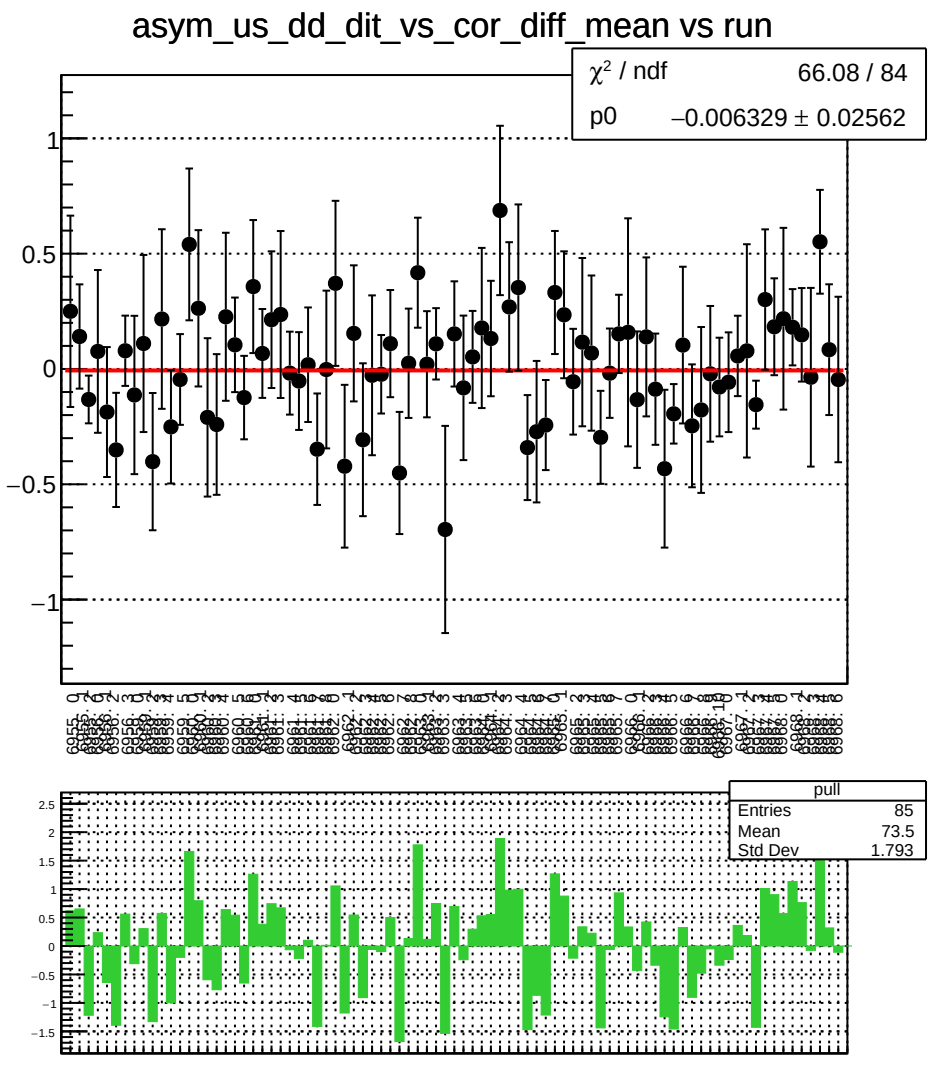

pull1D
Entries 85
Mean −0.001414
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

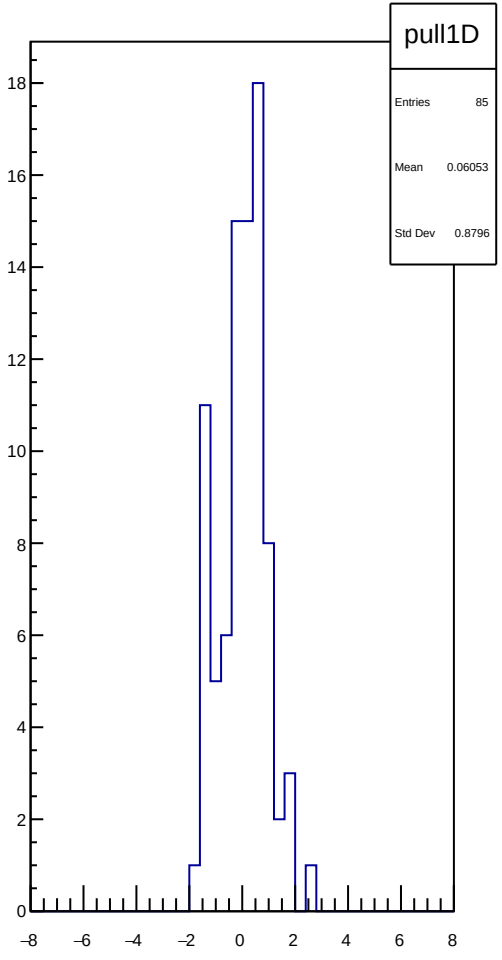

asym_us_dd_rms vs run
χ² / ndf 1936 / 84
p0 998.2 ± 0.7793
1150
1100
1050
1000
950

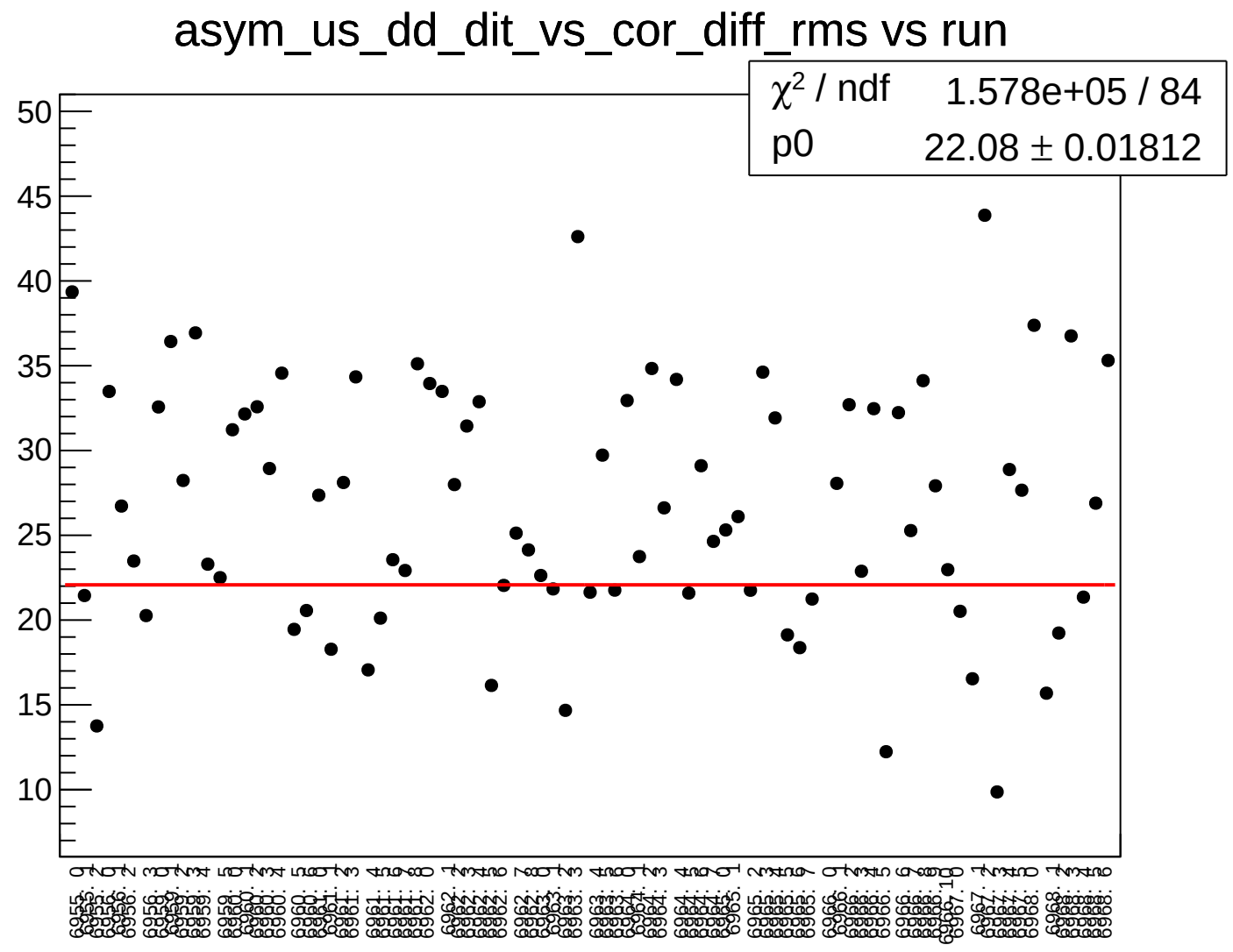

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.24 / 84
p0 6.321e−15 ± 2.451e−14
pull
Entries 85
Mean −83.88
Std Dev 0

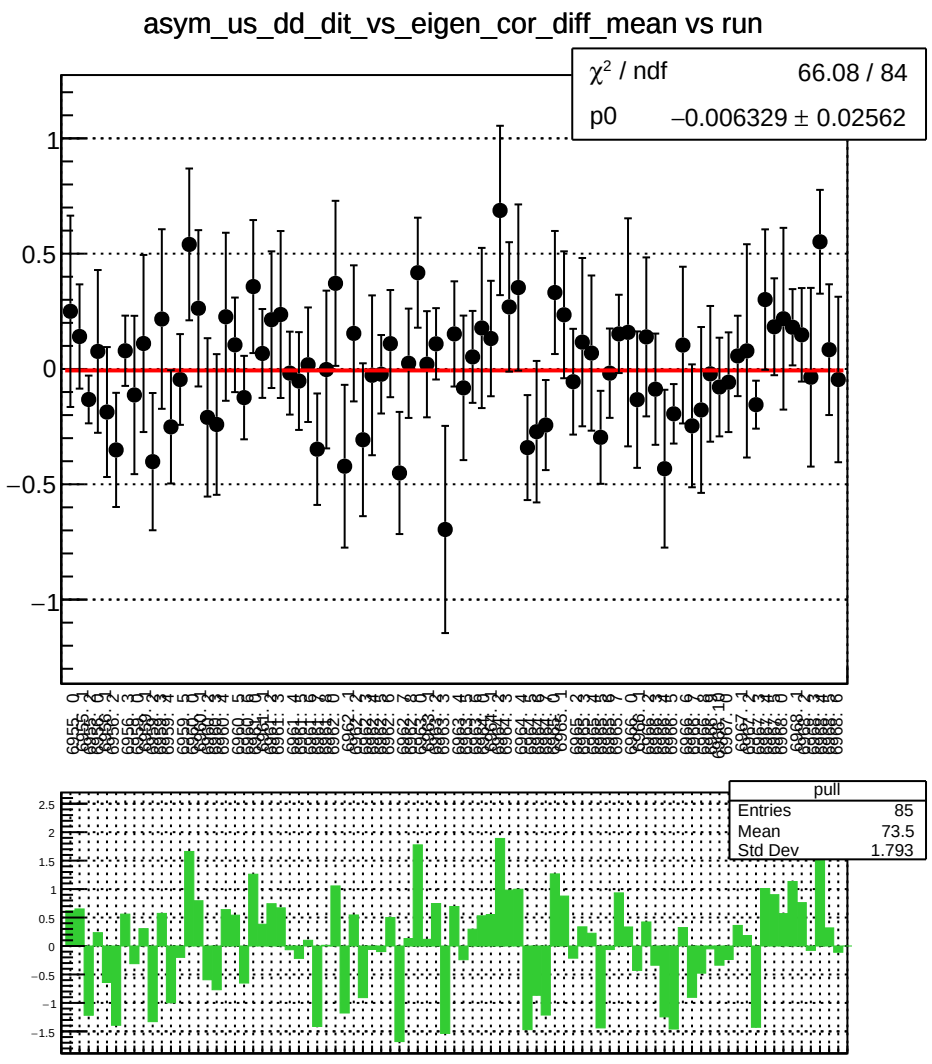

pull1D
Entries 85
Mean −0.01058
Std Dev 0.9154

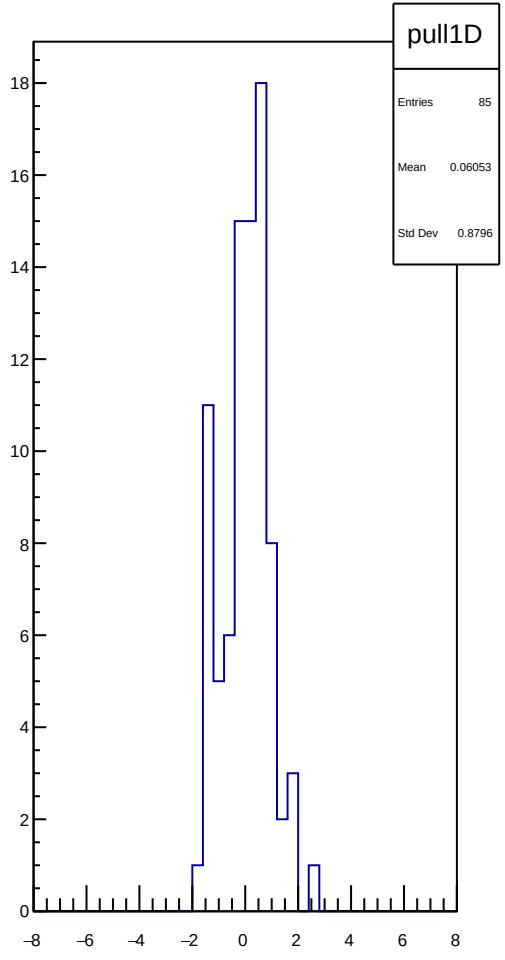

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.834e+05 / 84
p0 1.698e−11 ± 1.733e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

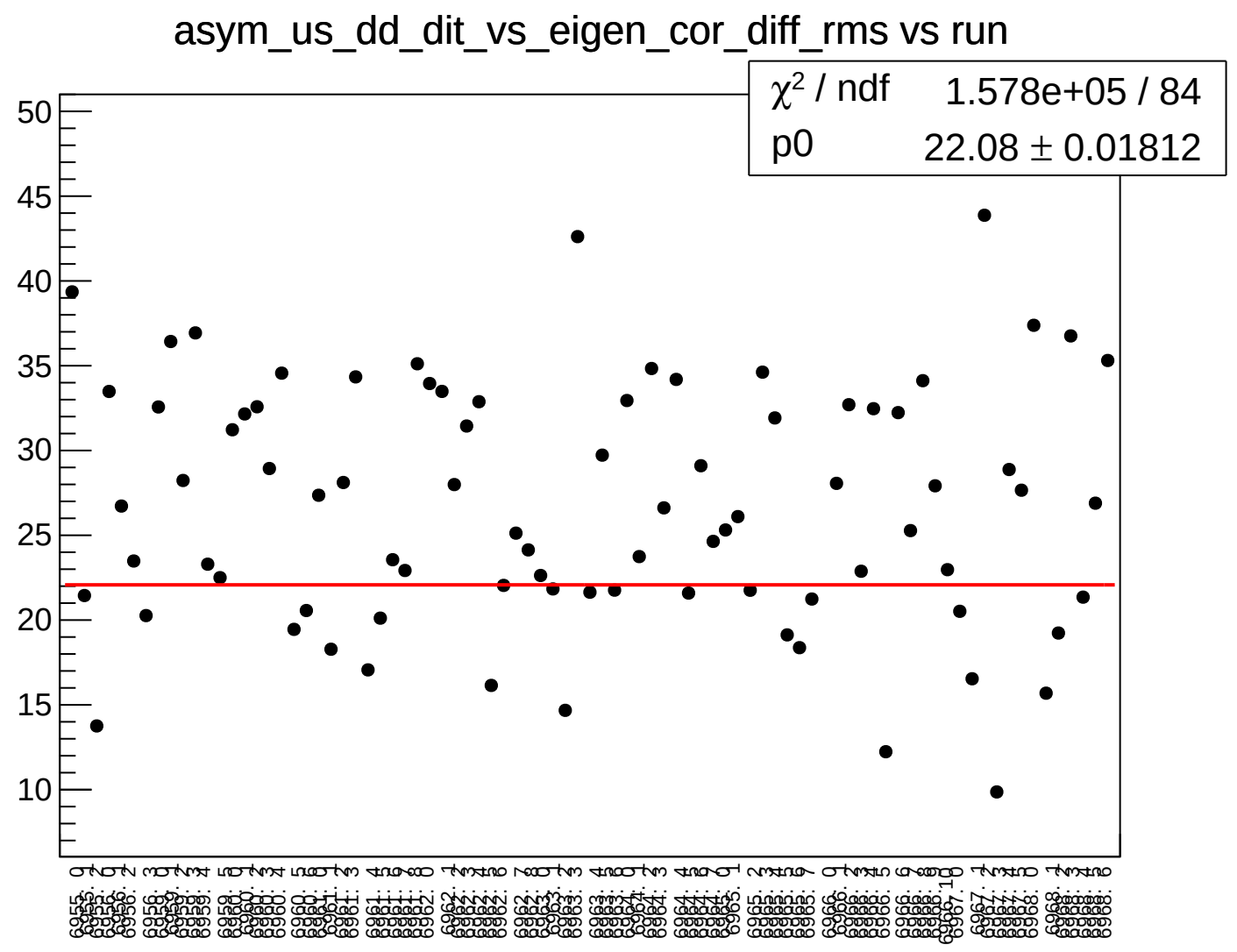

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.08 / 84
p0 −0.006329 ± 0.02562
pull
Entries 85
Mean 73.5
Std Dev 1.793

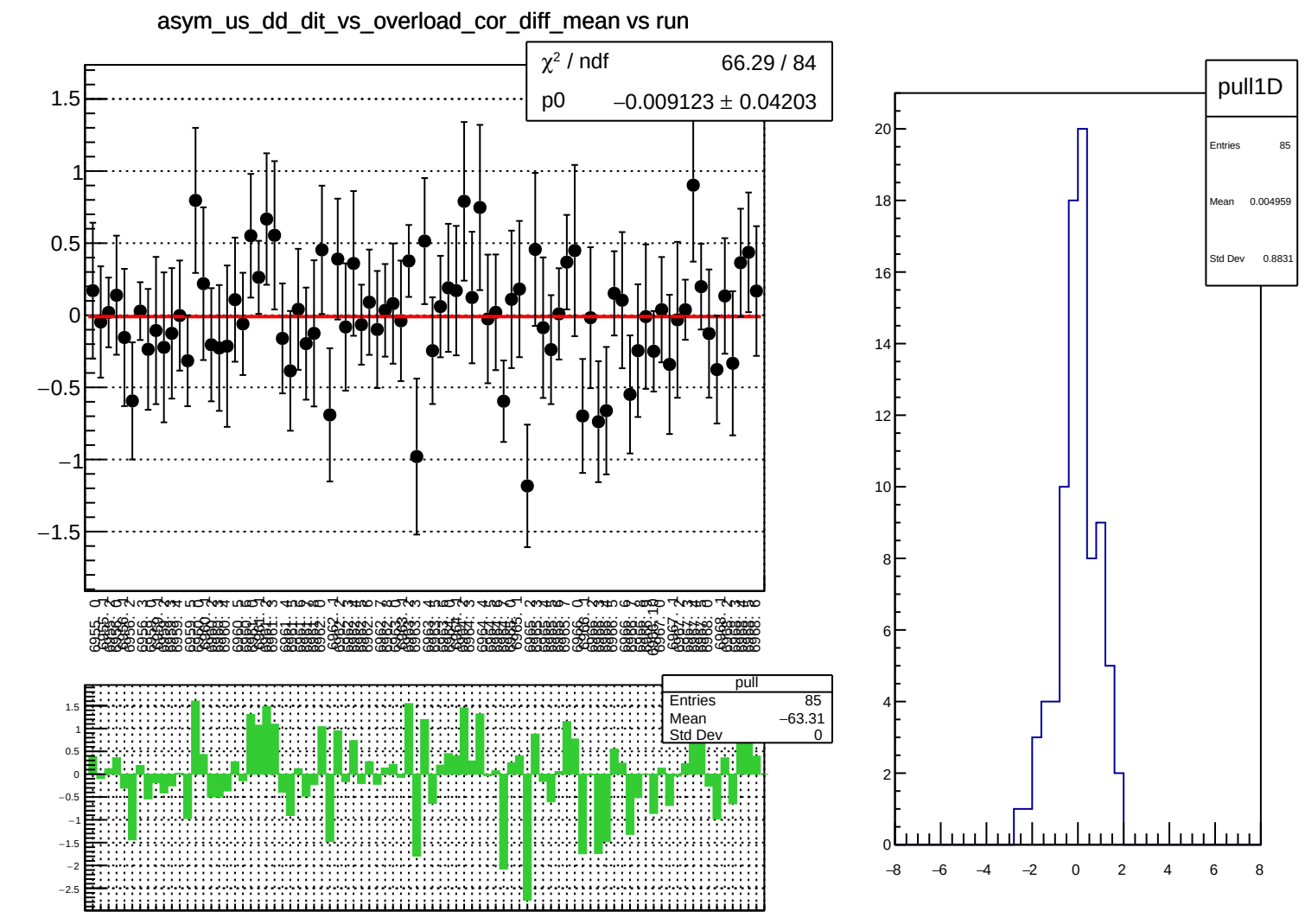

pull1D
Entries 85
Mean 0.06053
Std Dev 0.8796

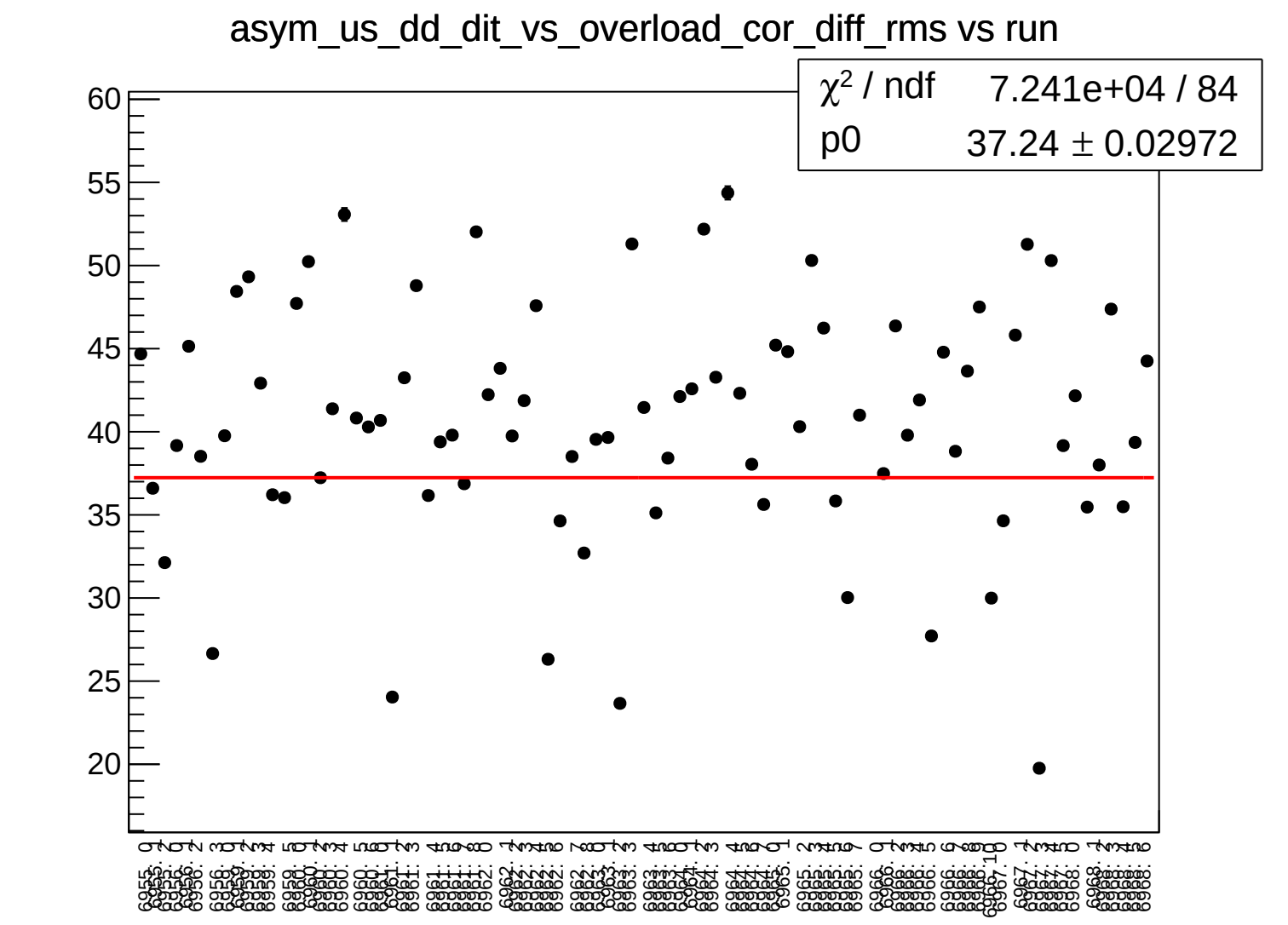

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.578e+05 / 84
p0 22.08 ± 0.01812
50
45
40
35
30
25
20
15
10

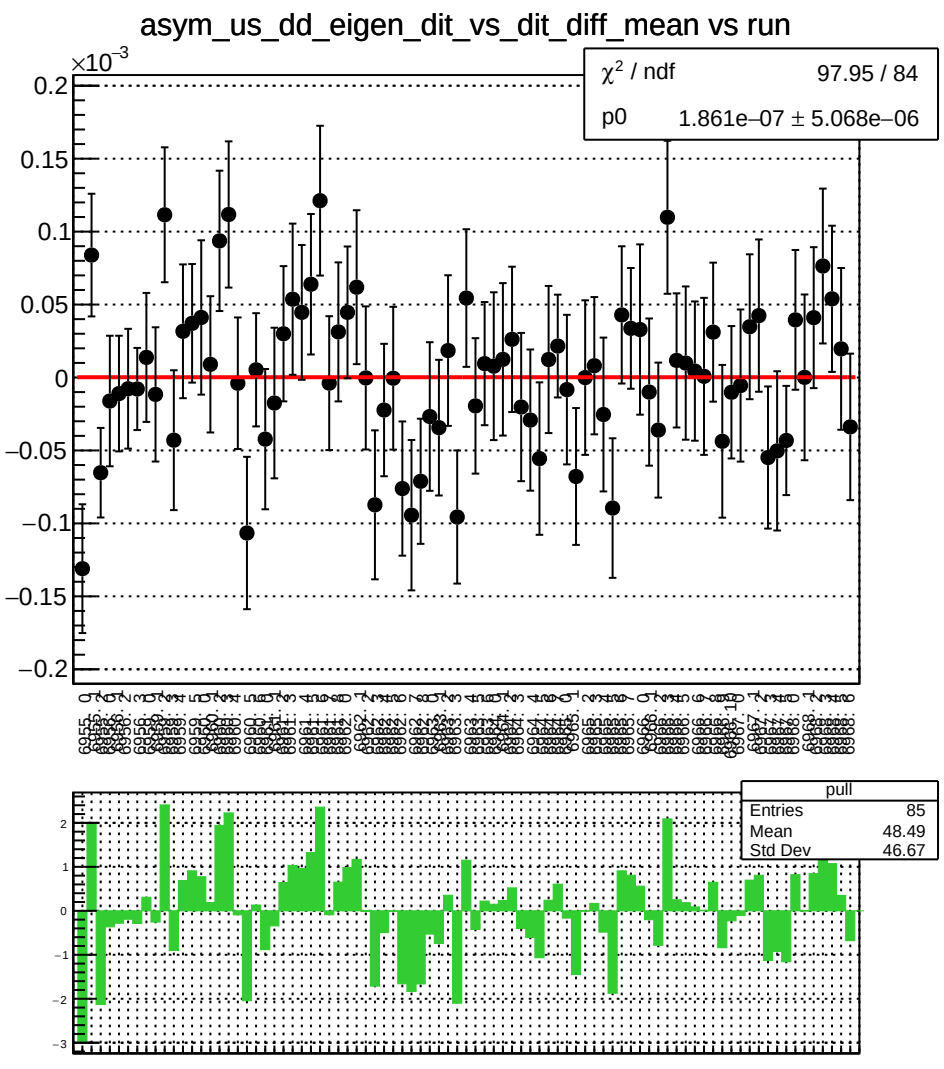

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.08 / 84
p0 −0.006329 ± 0.02562
pull
Entries 85
Mean 73.5
Std Dev 1.793

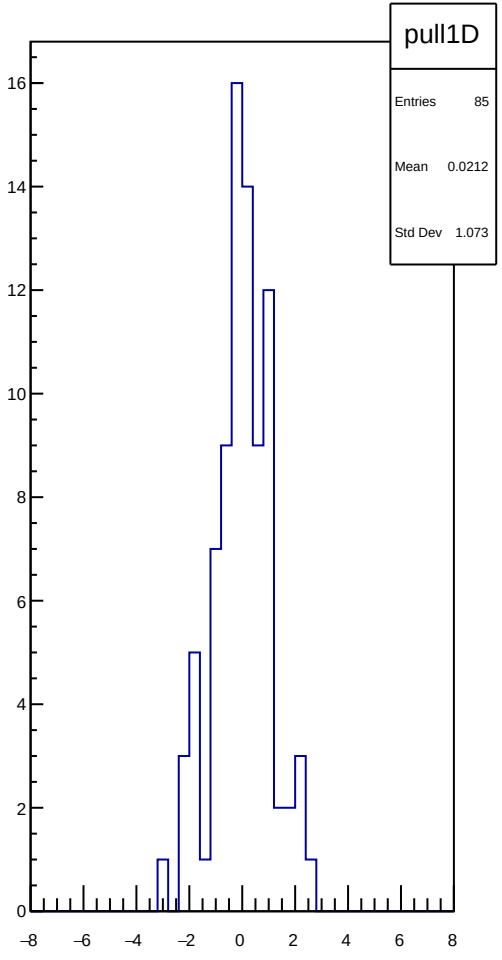

pull1D
Entries 85
Mean 0.06053
Std Dev 0.8796

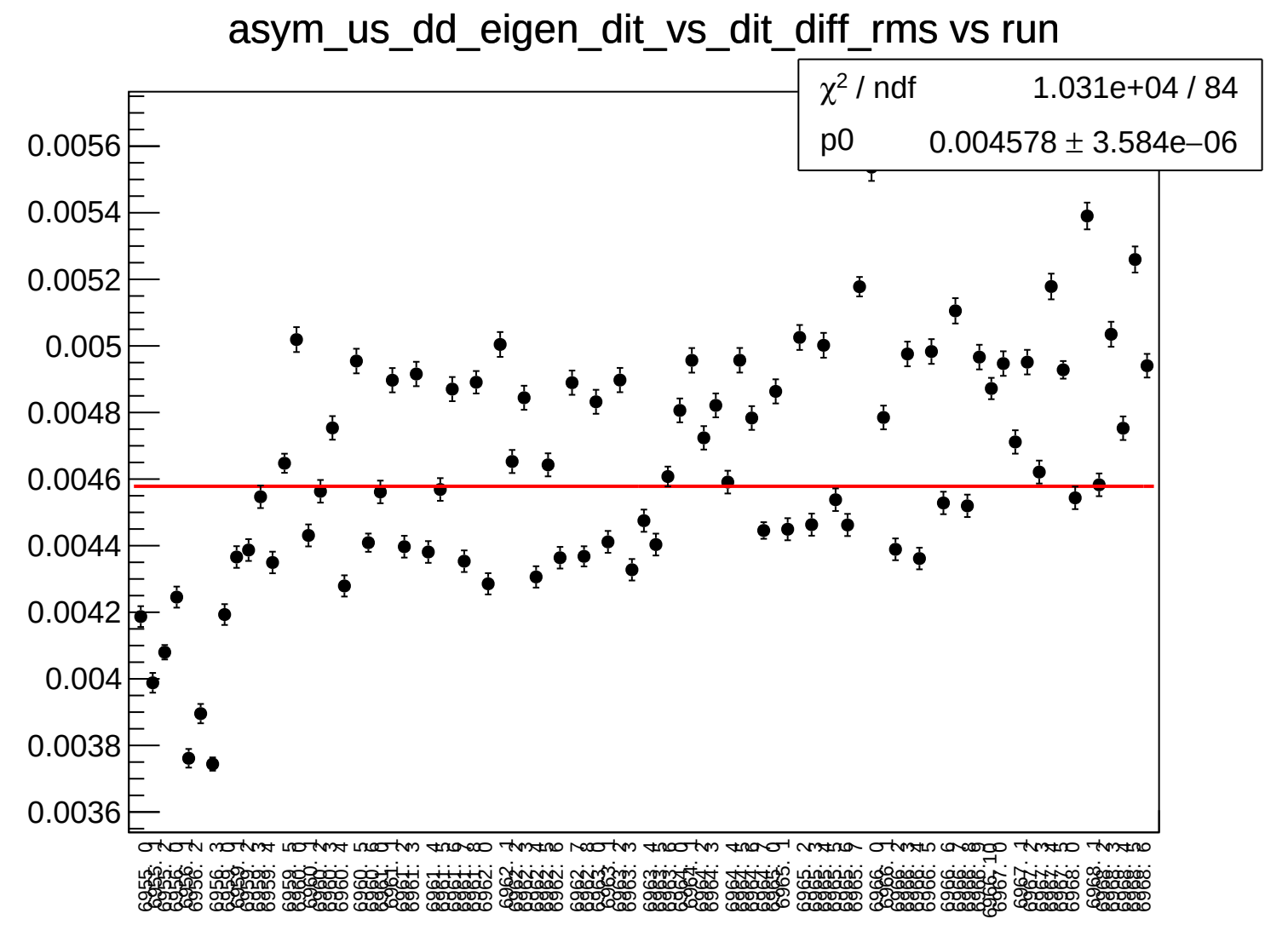

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.578e+05 / 84
p0 22.08 ± 0.01812
50
45
40
35
30
25
20
15
10

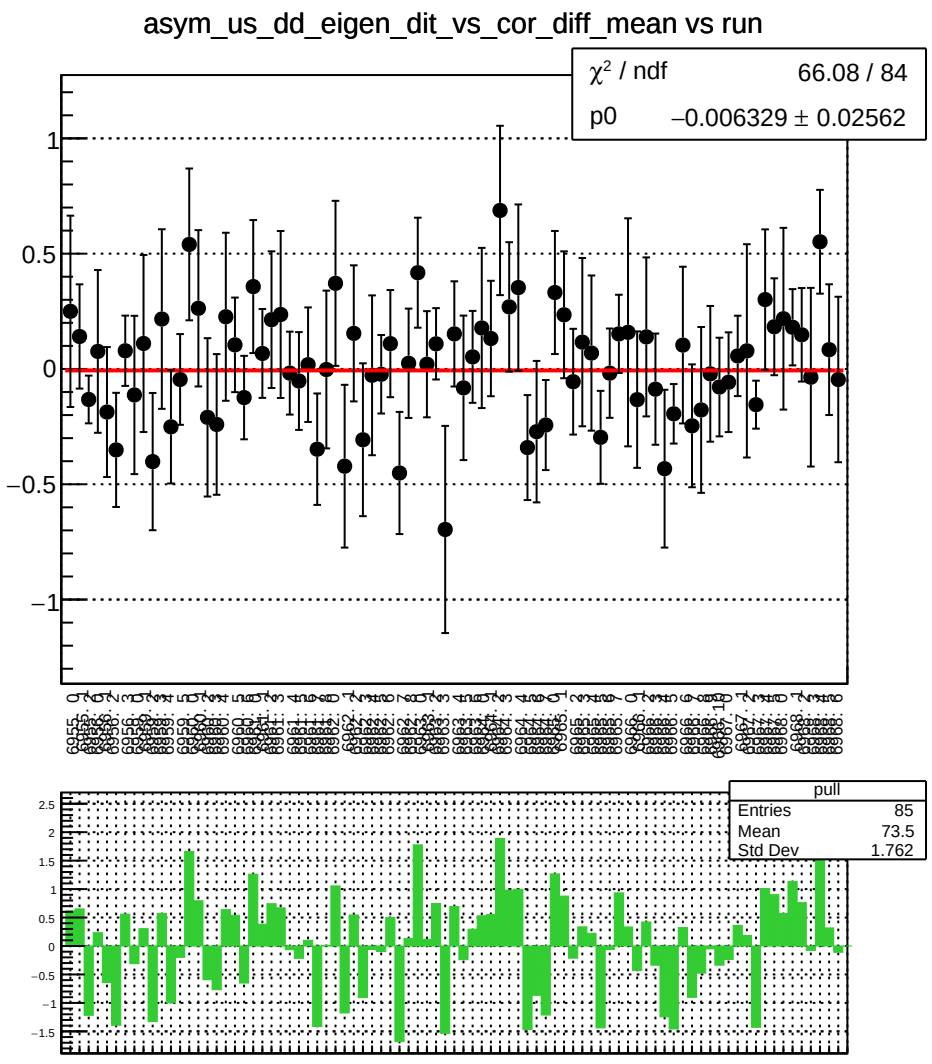

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 66.29 / 84
p0 −0.009123 ± 0.04203
pull
Entries 85
Mean −63.31
Std Dev 0
pull1D
Entries 85
Mean 0.004959
Std Dev 0.8831

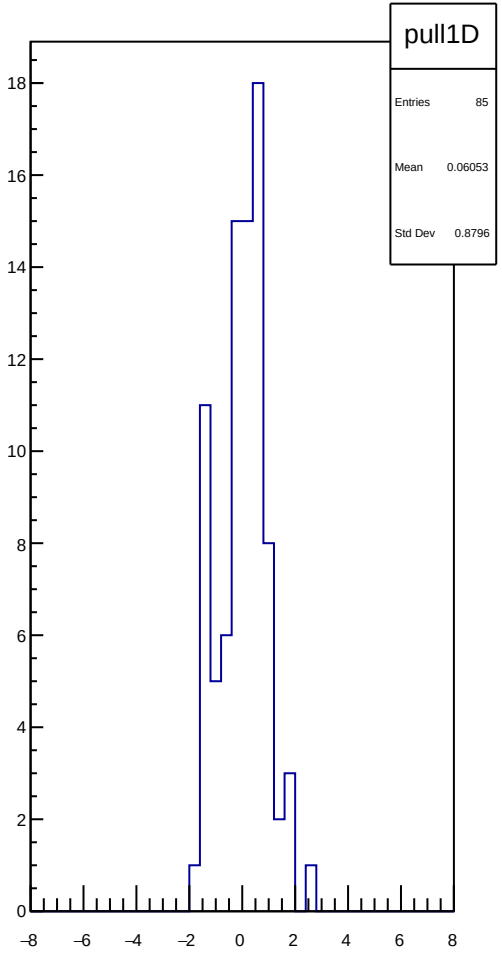

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.241e+04 / 84
p0 37.24 ± 0.02972
60
55
50
45
40
35
30
25
20

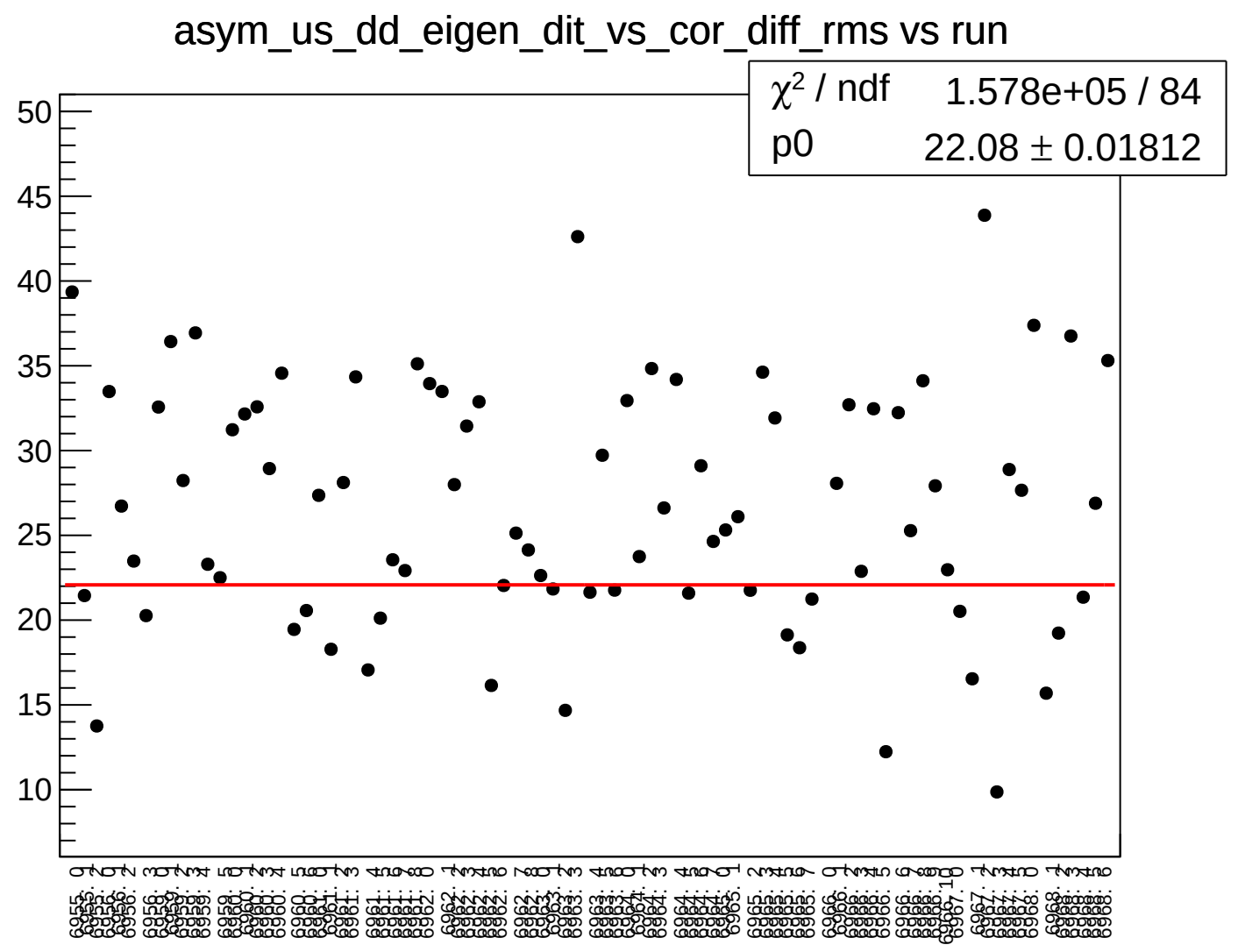

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.95 / 84
p0 1.861e−07 ± 5.068e−06
pull
Entries 85
Mean 48.49
Std Dev 46.67


pull1D
Entries 85
Mean 0.0212
Std Dev 1.073

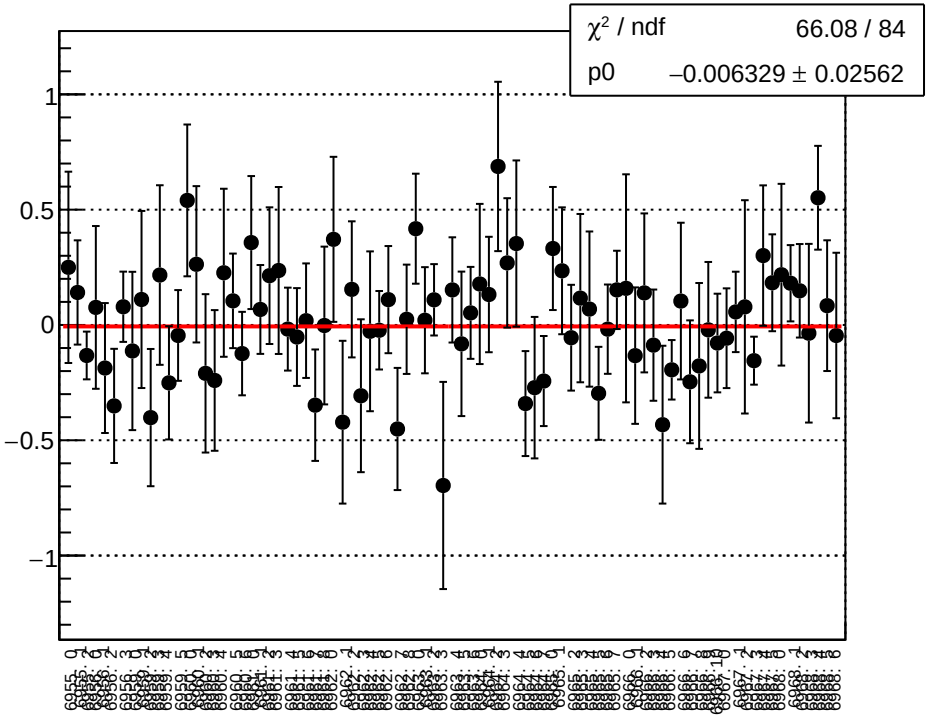

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.031e+04 / 84
p0 0.004578 ± 3.584e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

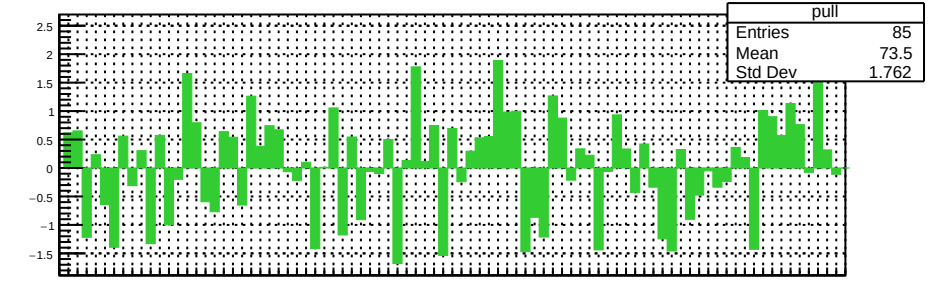

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.08 / 84
p0 −0.006329 ± 0.02562
pull
Entries 85
Mean 73.5
Std Dev 1.762

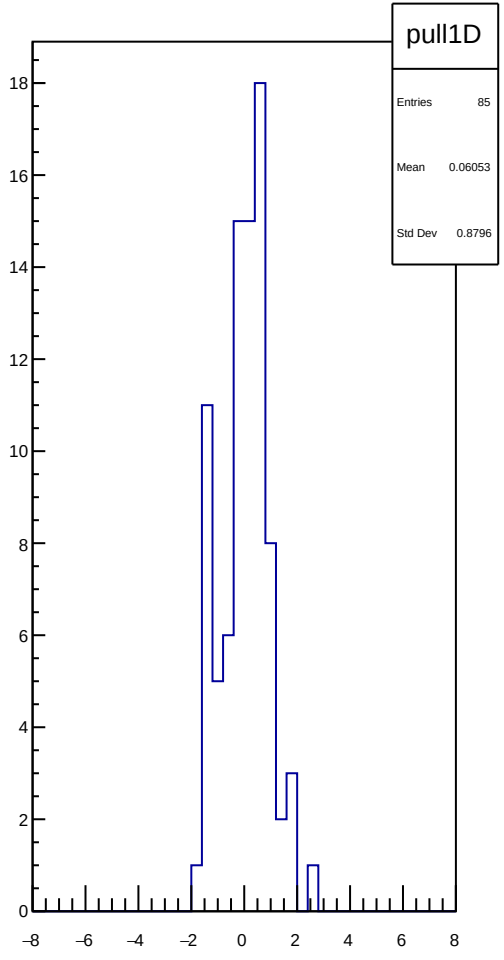

pull1D
Entries 85
Mean 0.06053
Std Dev 0.8796

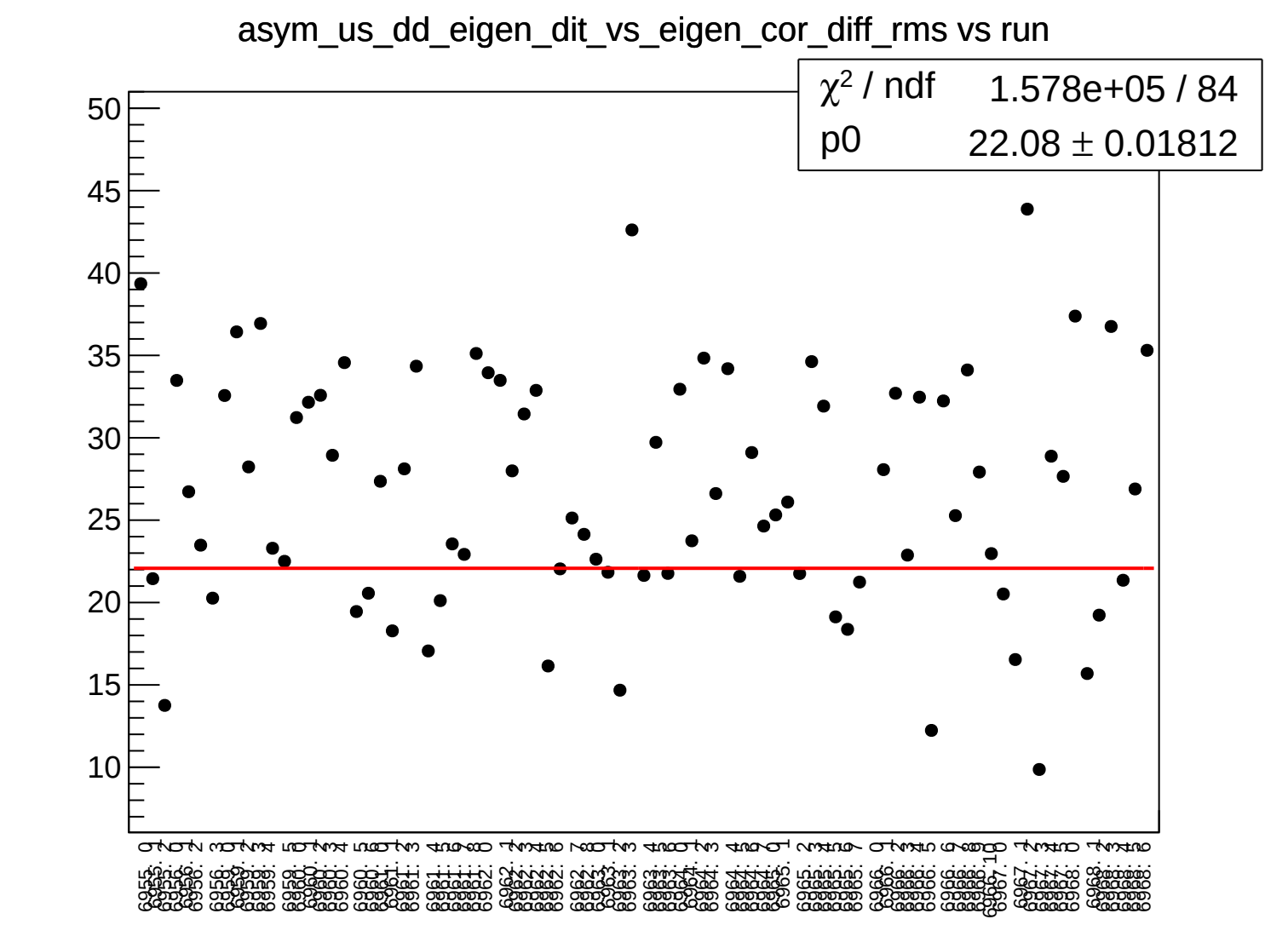

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.578e+05 / 84
p0 22.08 ± 0.01812
50
45
40
35
30
25
20
15
10

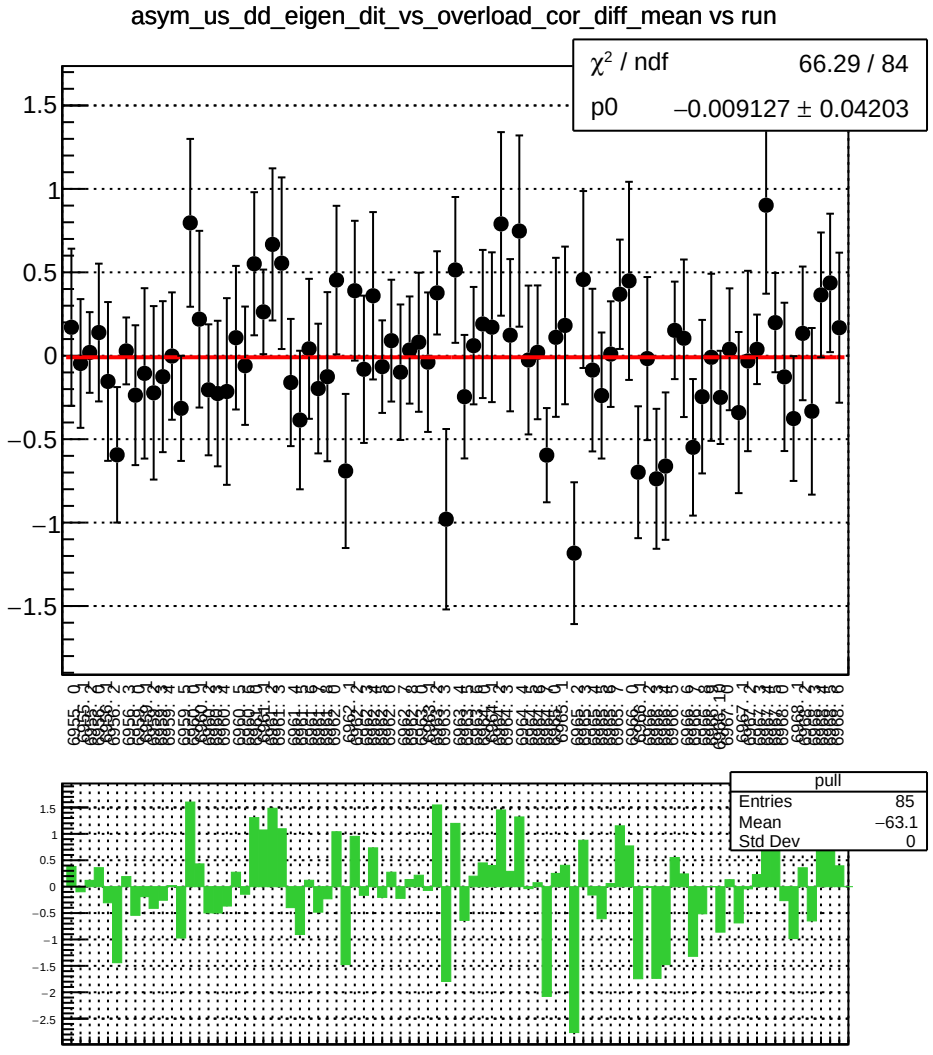
asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

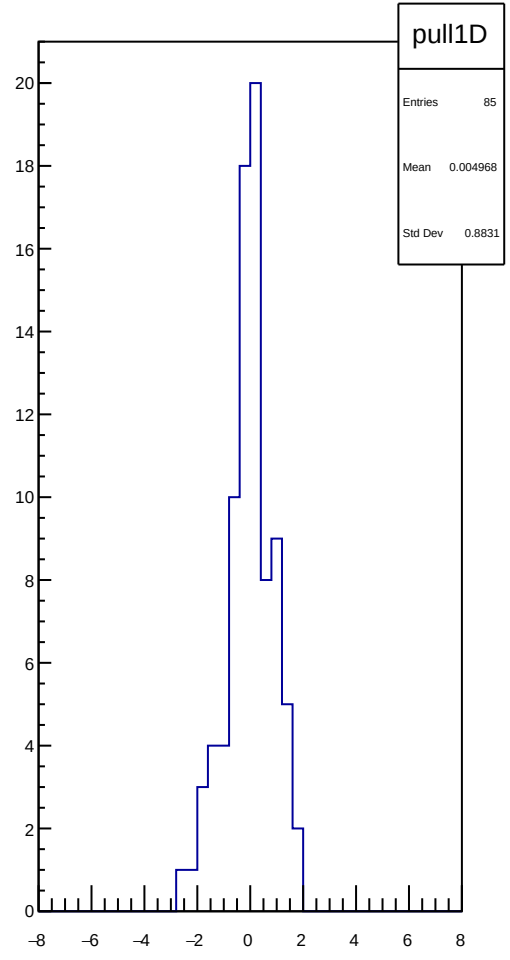


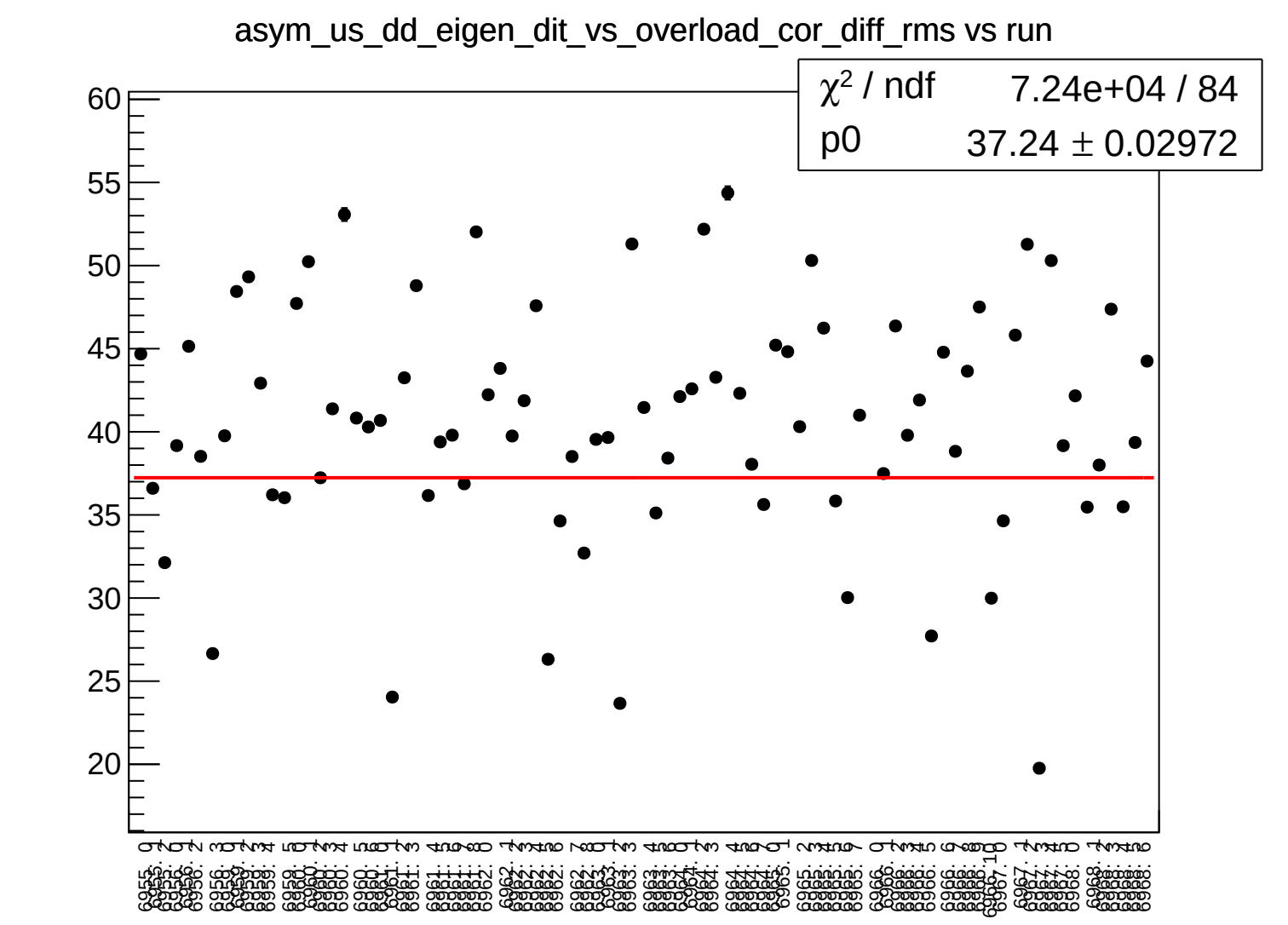



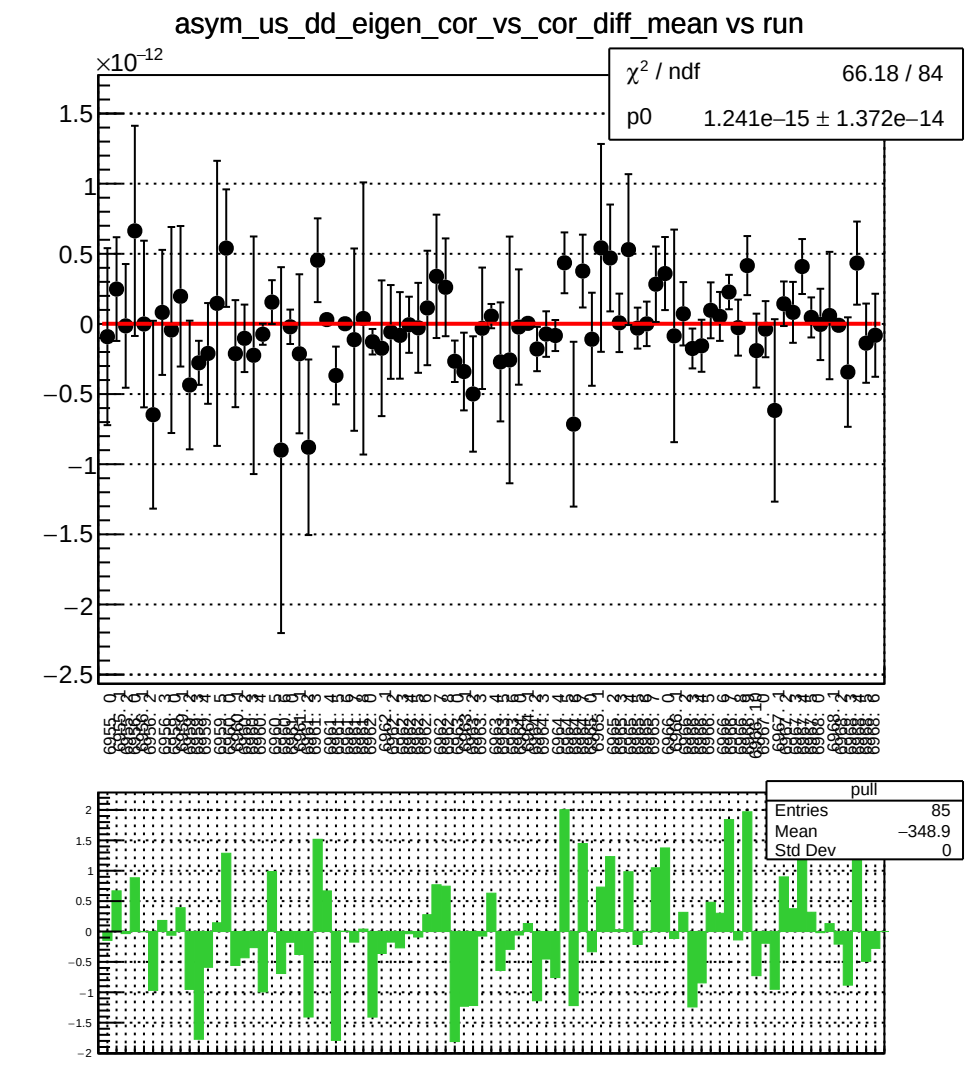



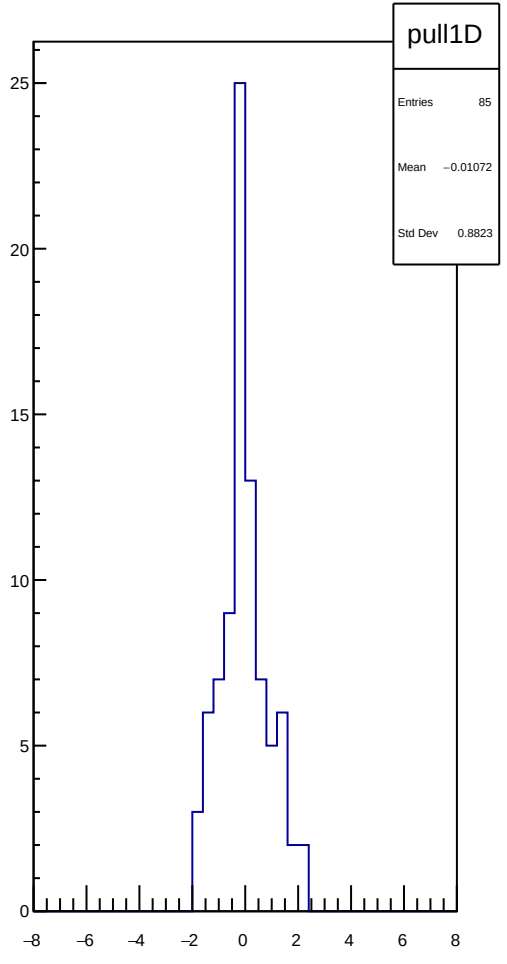

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.578e+05 / 84
p0 22.08 ± 0.01812
50
45
40
35
30
25
20
15
10

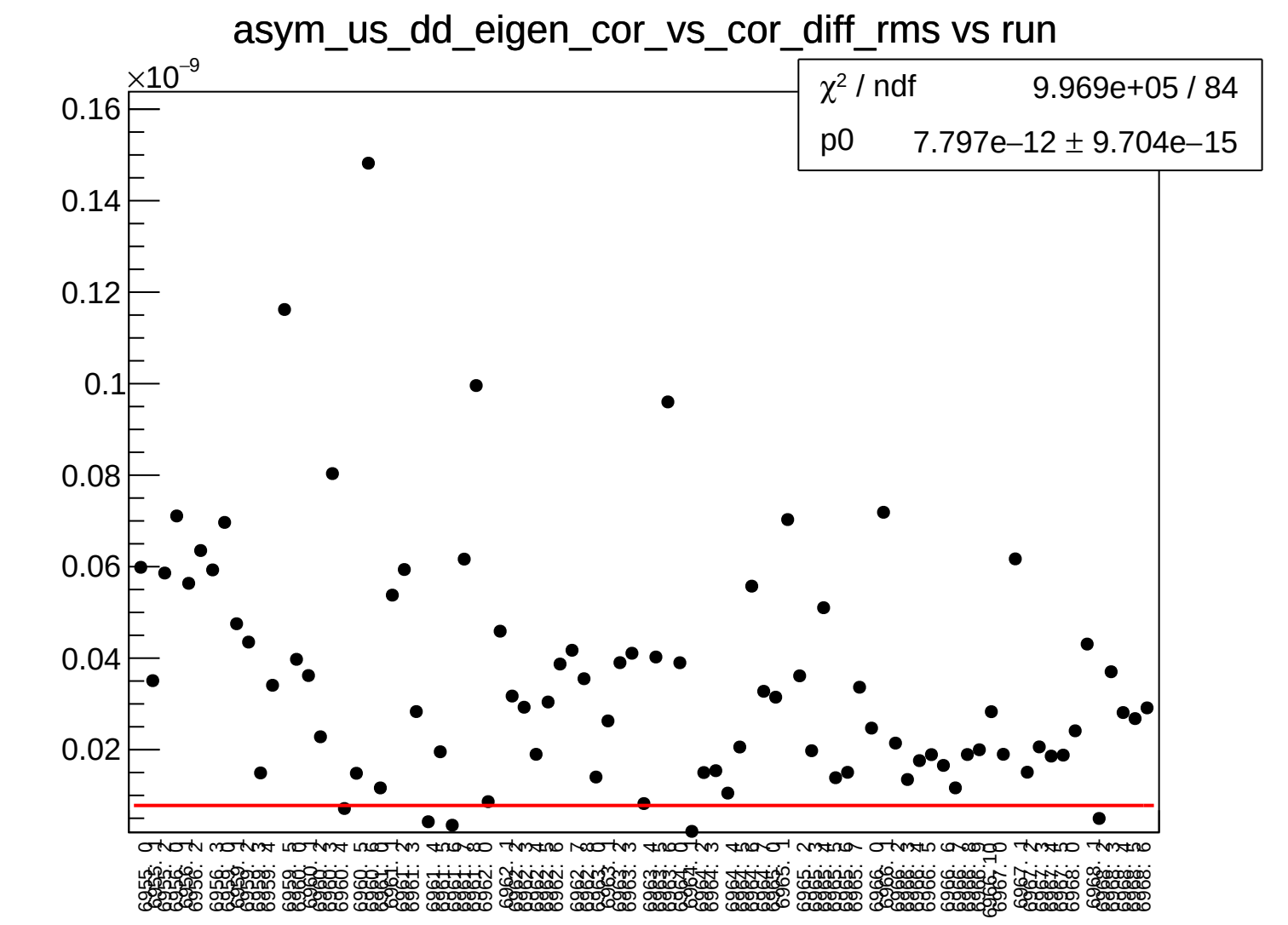

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 66.29 / 84
p0 −0.009127 ± 0.04203
pull
Entries 85
Mean −63.1
Std Dev 0

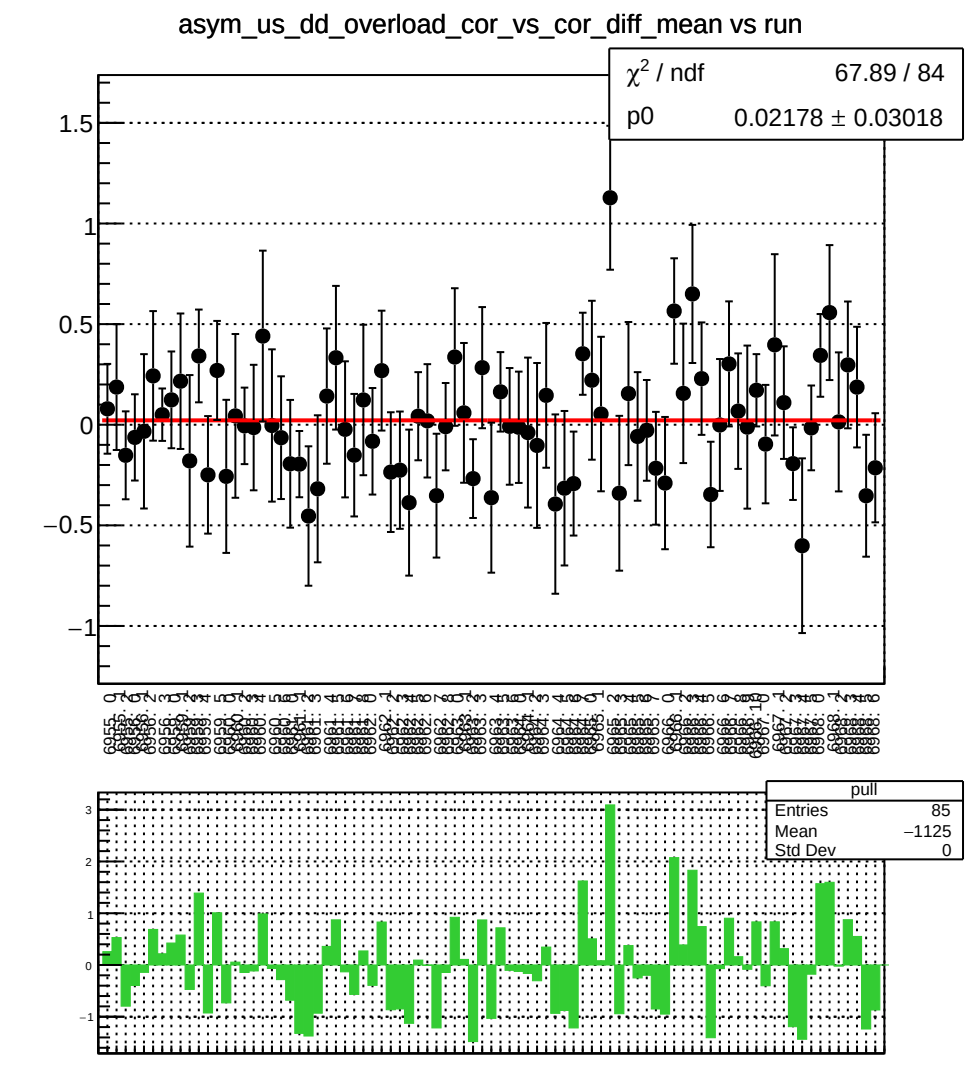

pull1D
Entries 85
Mean 0.004968
Std Dev 0.8831

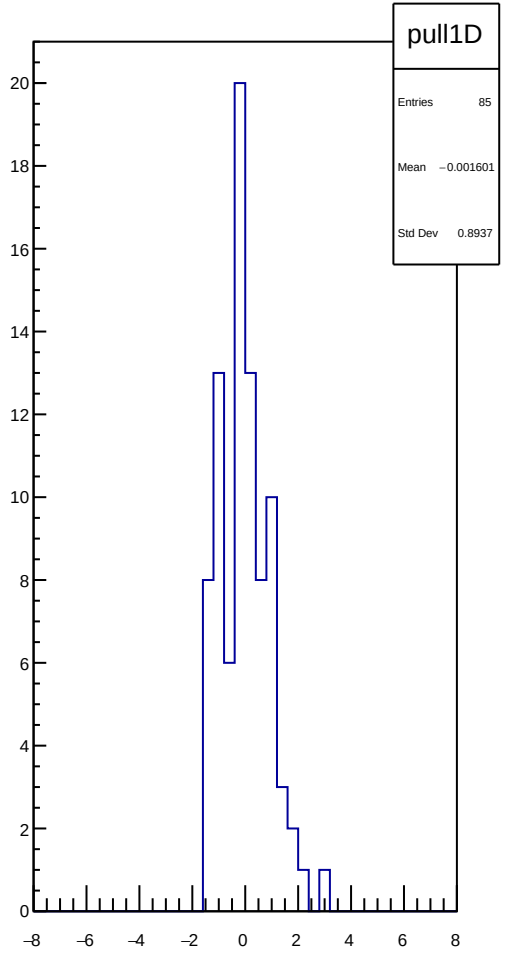

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.24e+04 / 84
p0 37.24 ± 0.02972
60
55
50
45
40
35
30
25
20

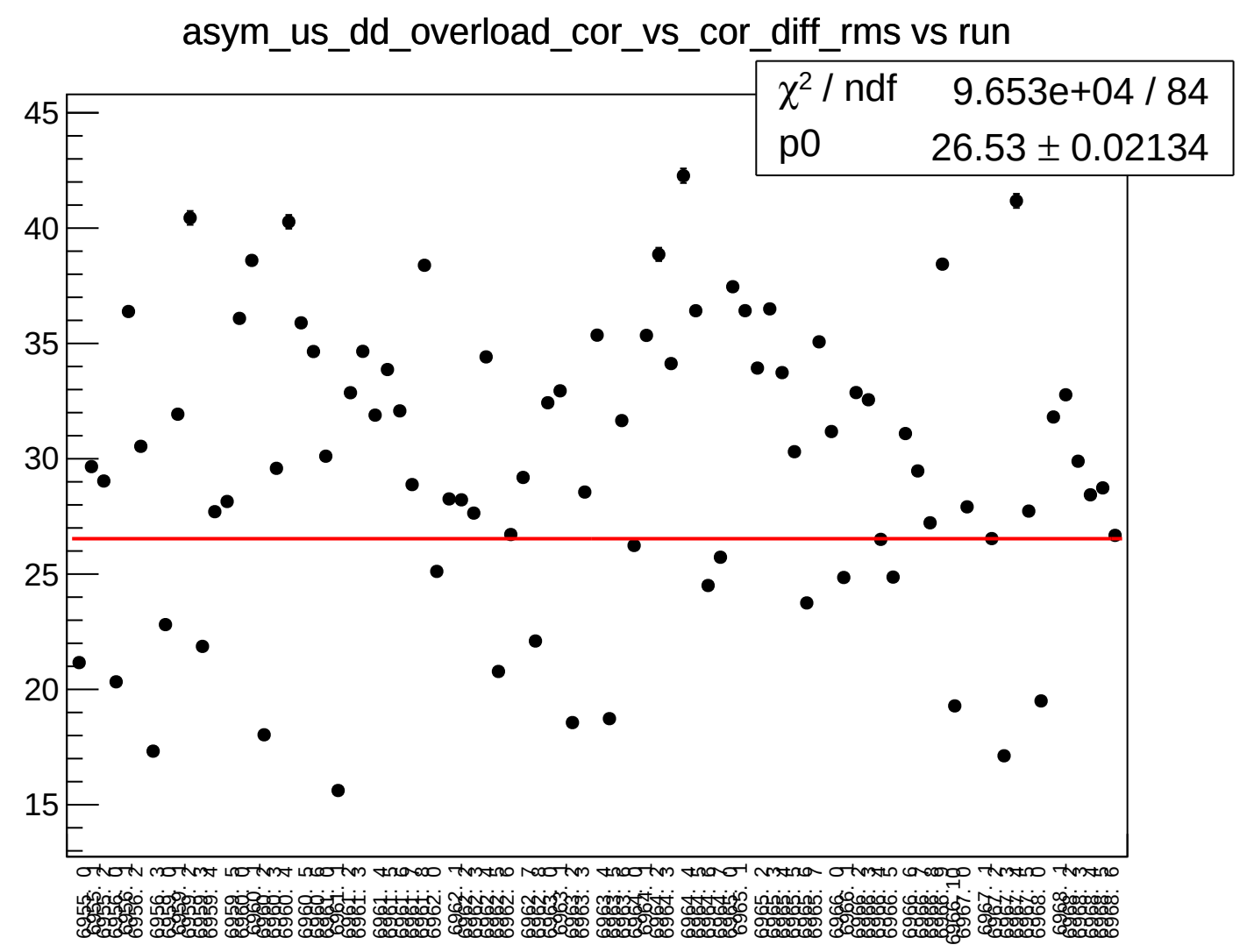

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.18 / 84
p0 1.241e−15 ± 1.372e−14
pull
Entries 85
Mean −348.9
Std Dev 0

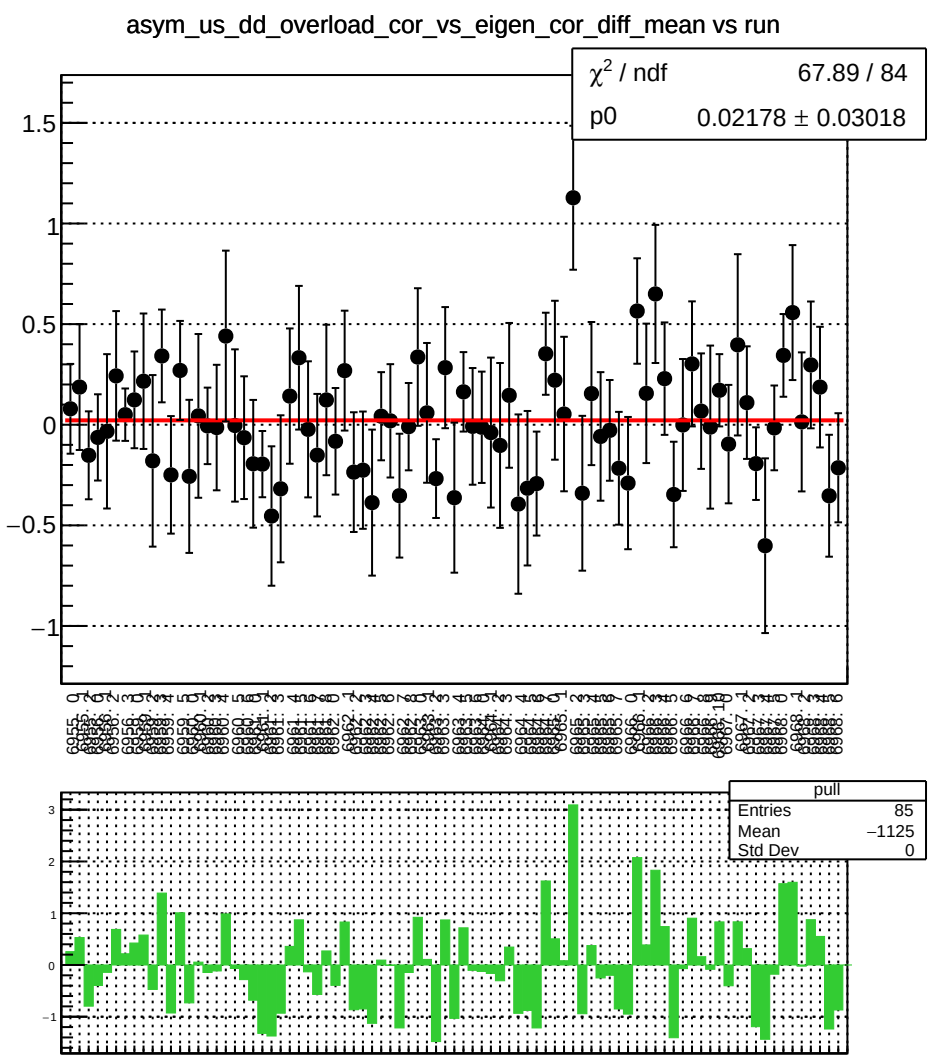

pull1D
Entries 85
Mean −0.01072
Std Dev 0.8823

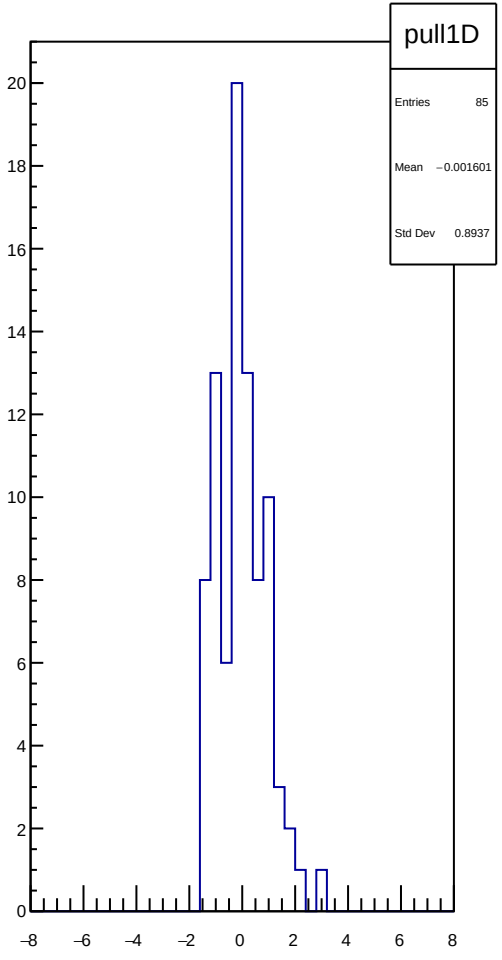

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.969e+05 / 84
p0 7.797e−12 ± 9.704e−15
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

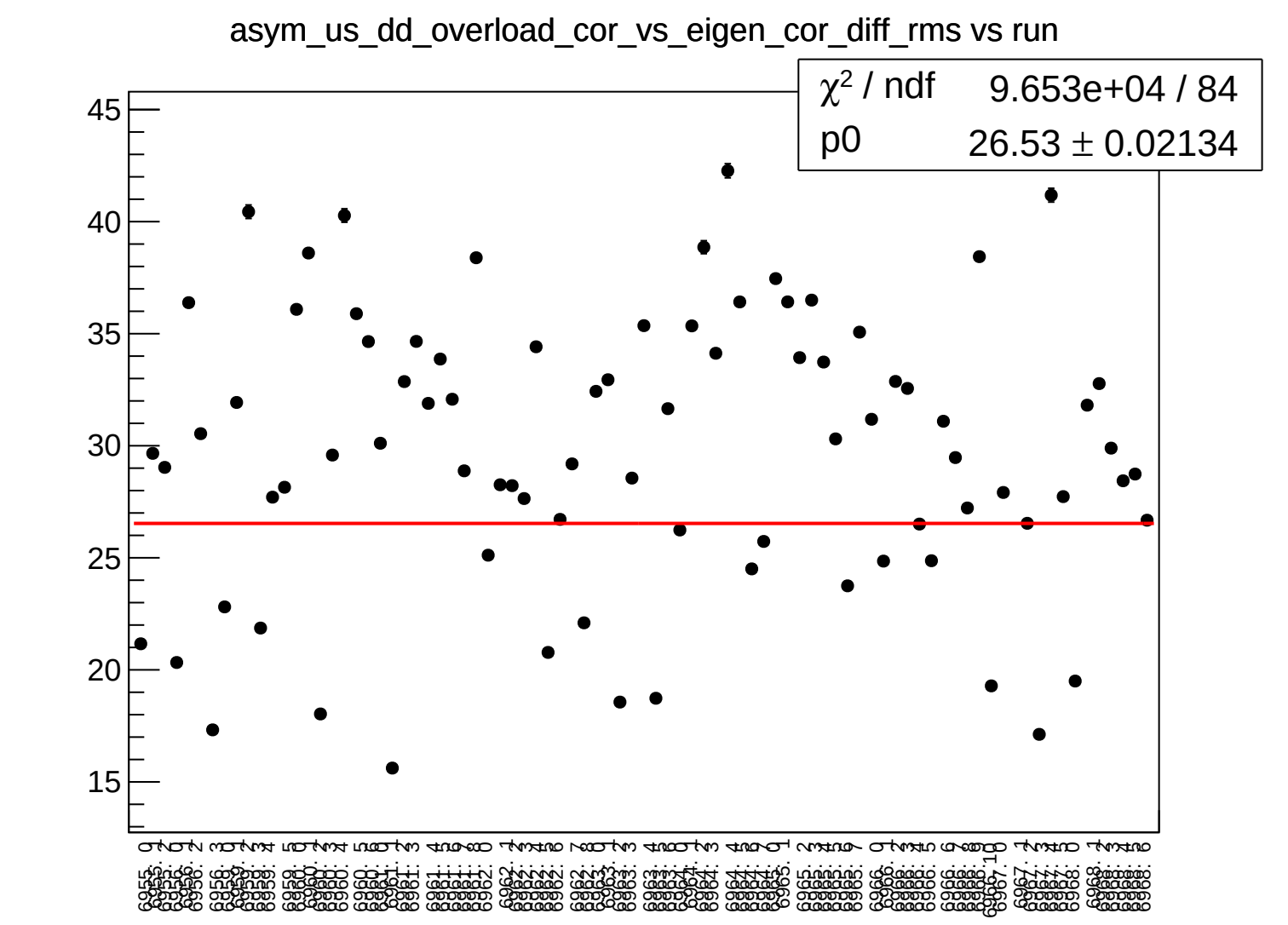

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 67.89 / 84
p0 0.02178 ± 0.03018
pull
Entries 85
Mean −1125
Std Dev 0

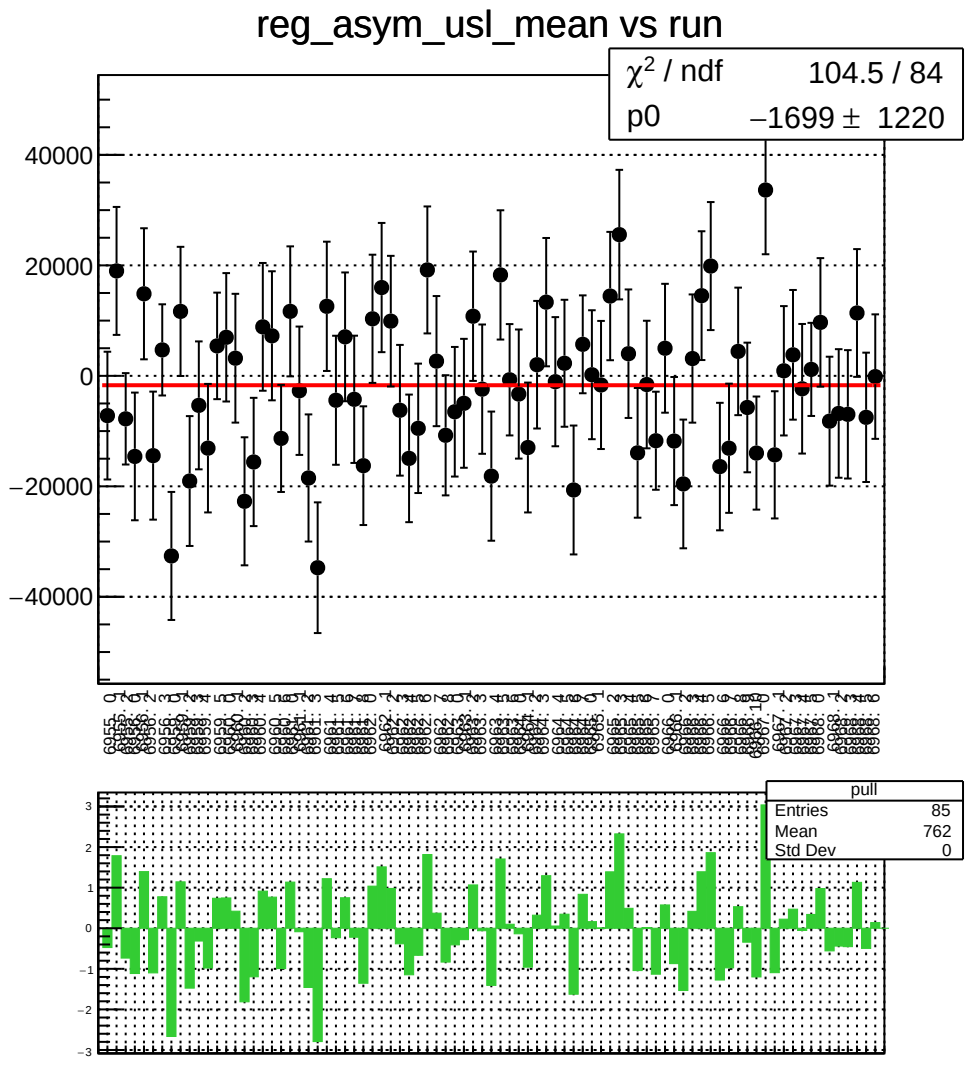

pull1D
Entries 85
Mean −0.001601
Std Dev 0.8937

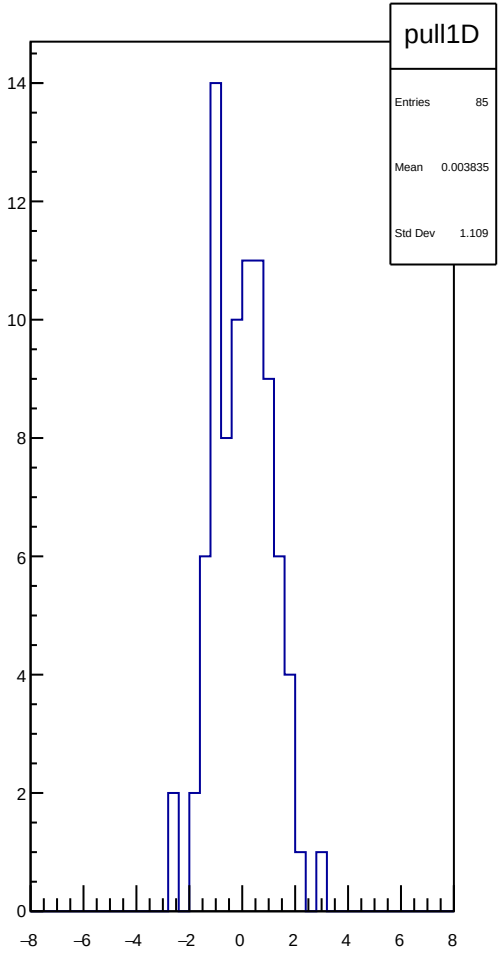

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 9.653e+04 / 84
p0 26.53 ± 0.02134
45
40
35
30
25
20
15

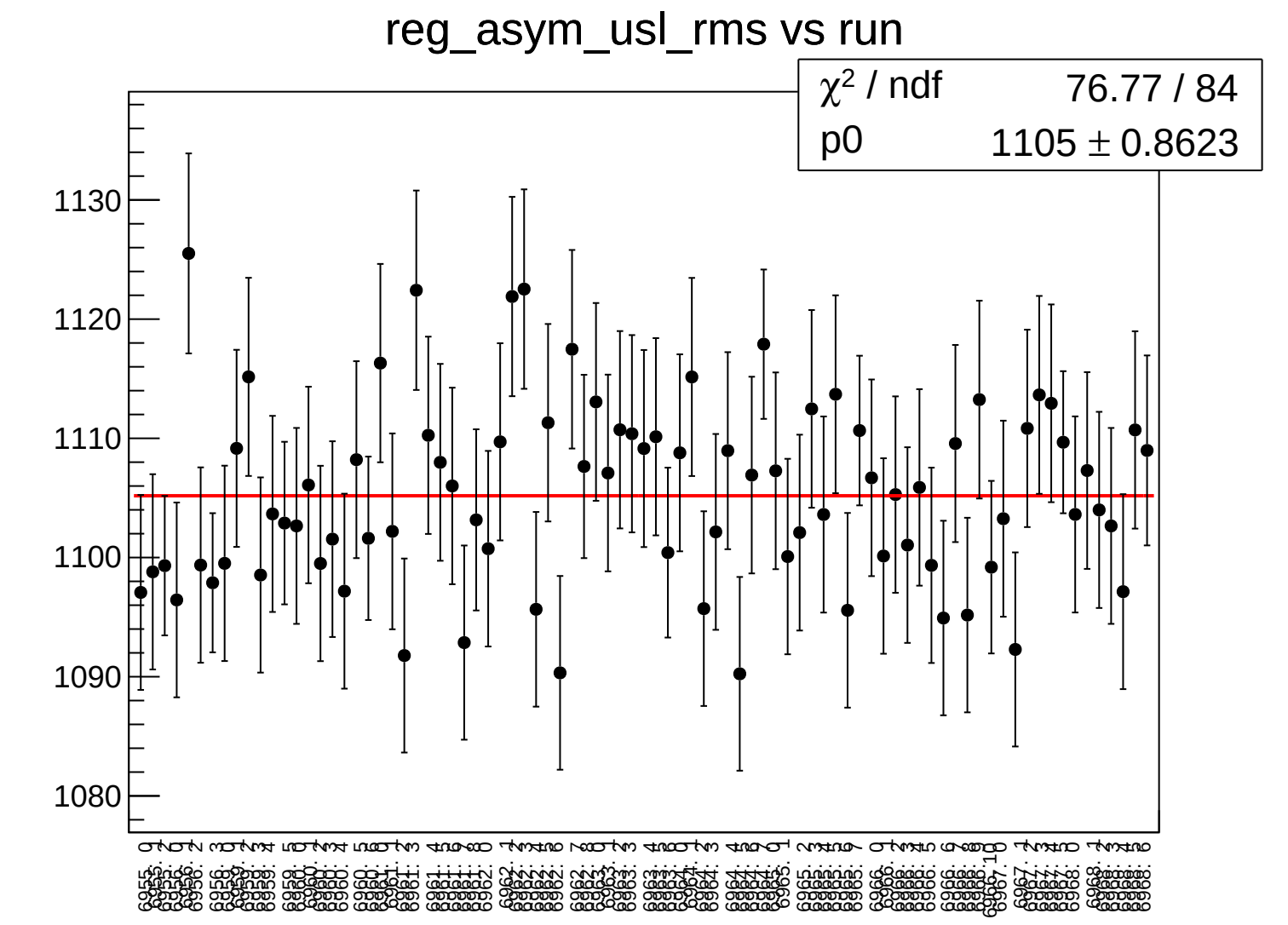

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.89 / 84
p0 0.02178 ± 0.03018
pull
Entries 85
Mean −1125
Std Dev 0

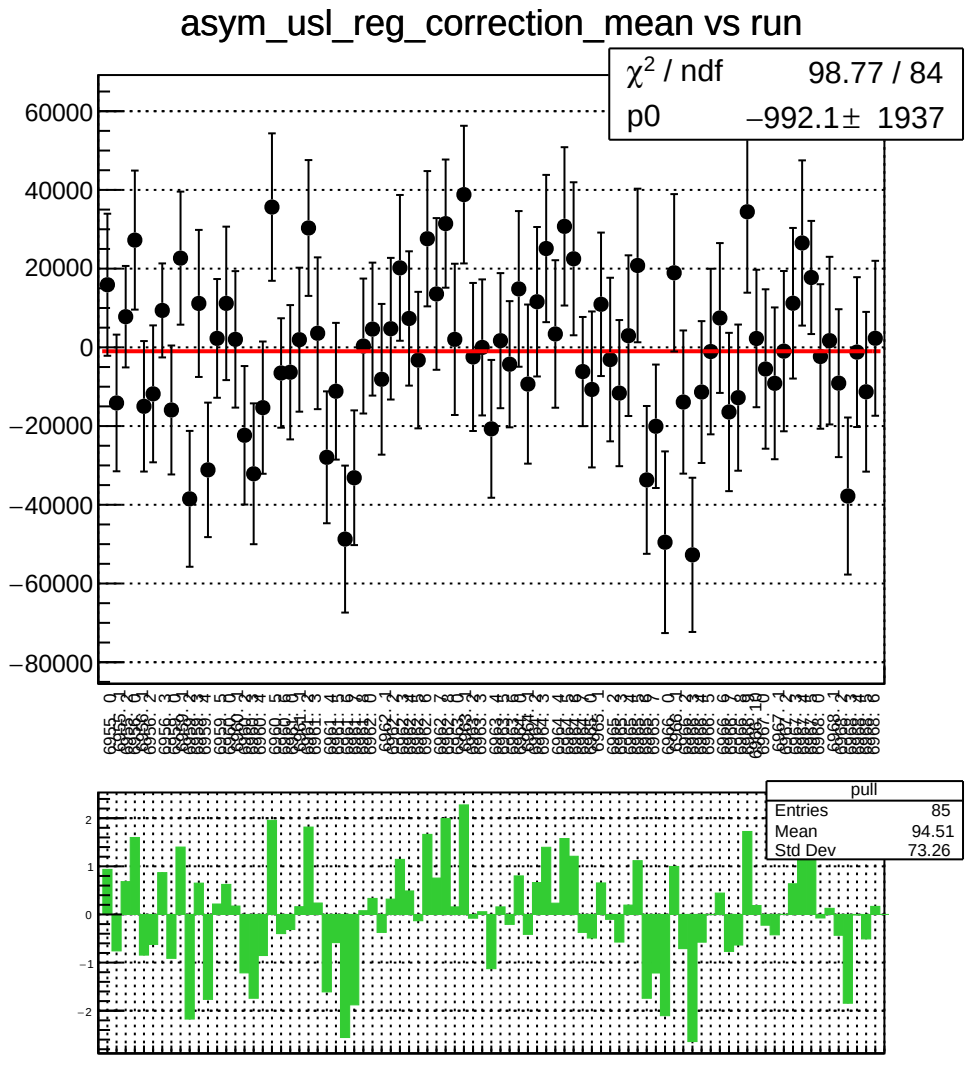

pull1D
Entries 85
Mean −0.001601
Std Dev 0.8937

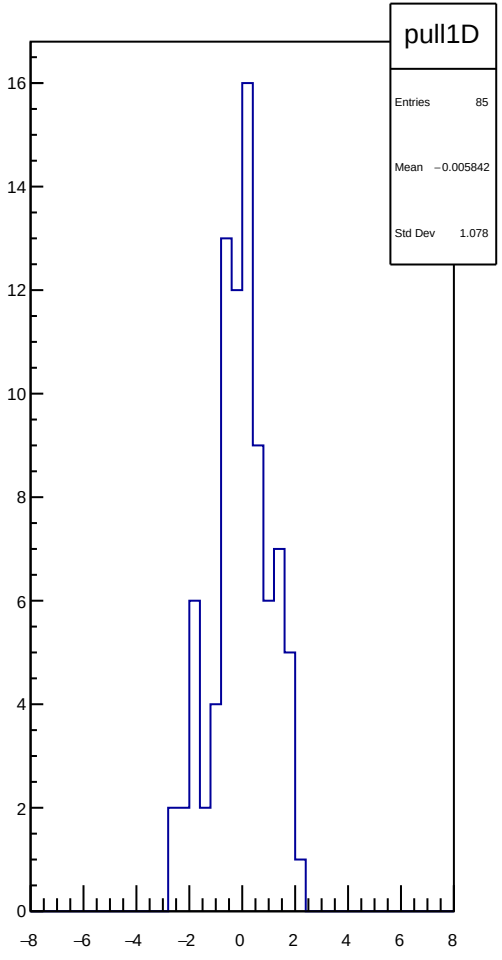

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.653e+04 / 84
p0 26.53 ± 0.02134
45
40
35
30
25
20
15

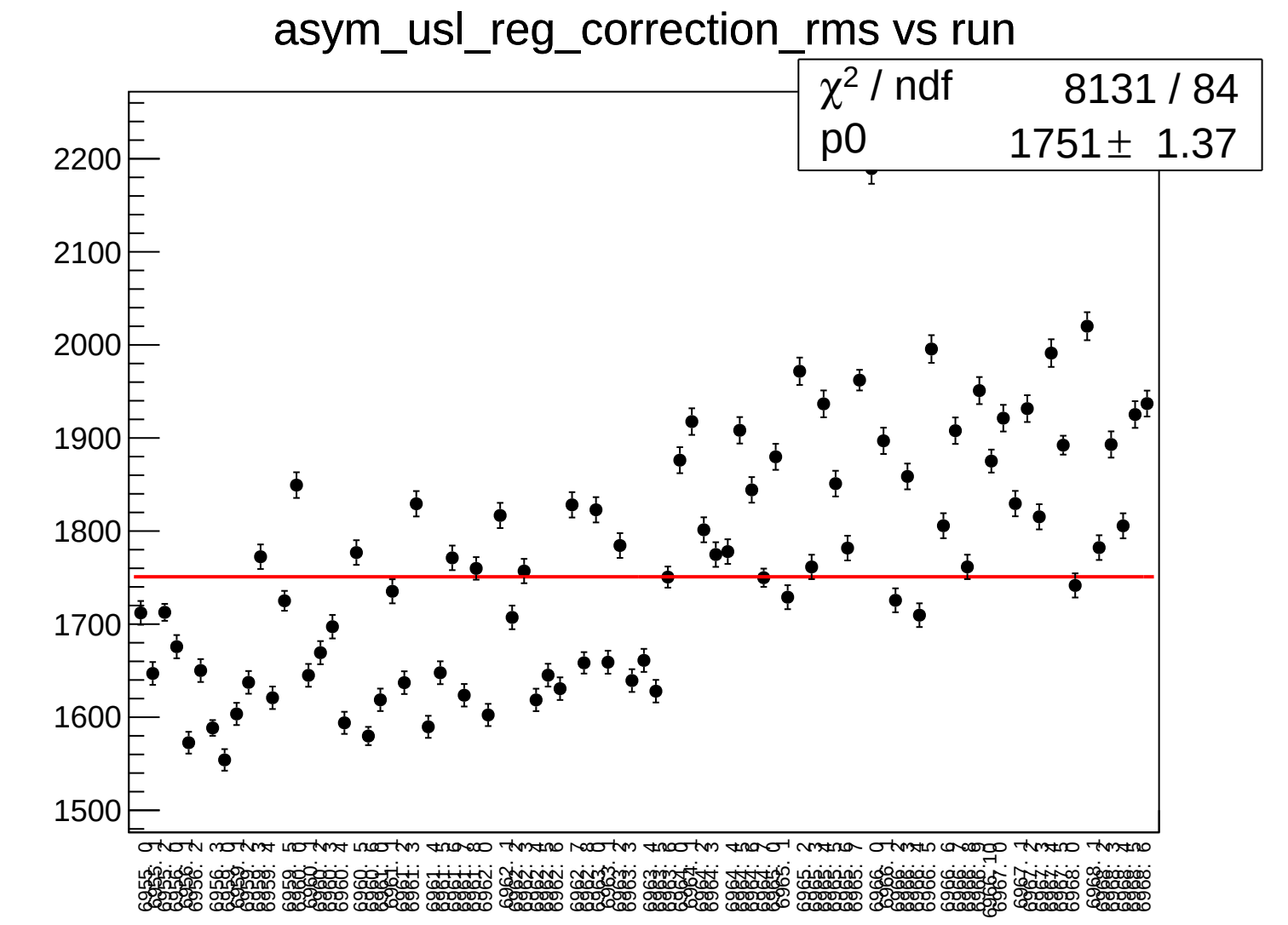

reg_asym_usl_mean vs run
χ² / ndf 104.5 / 84
p0 −1699 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 762
Std Dev 0
3
2
1
0
−1
−2
−3

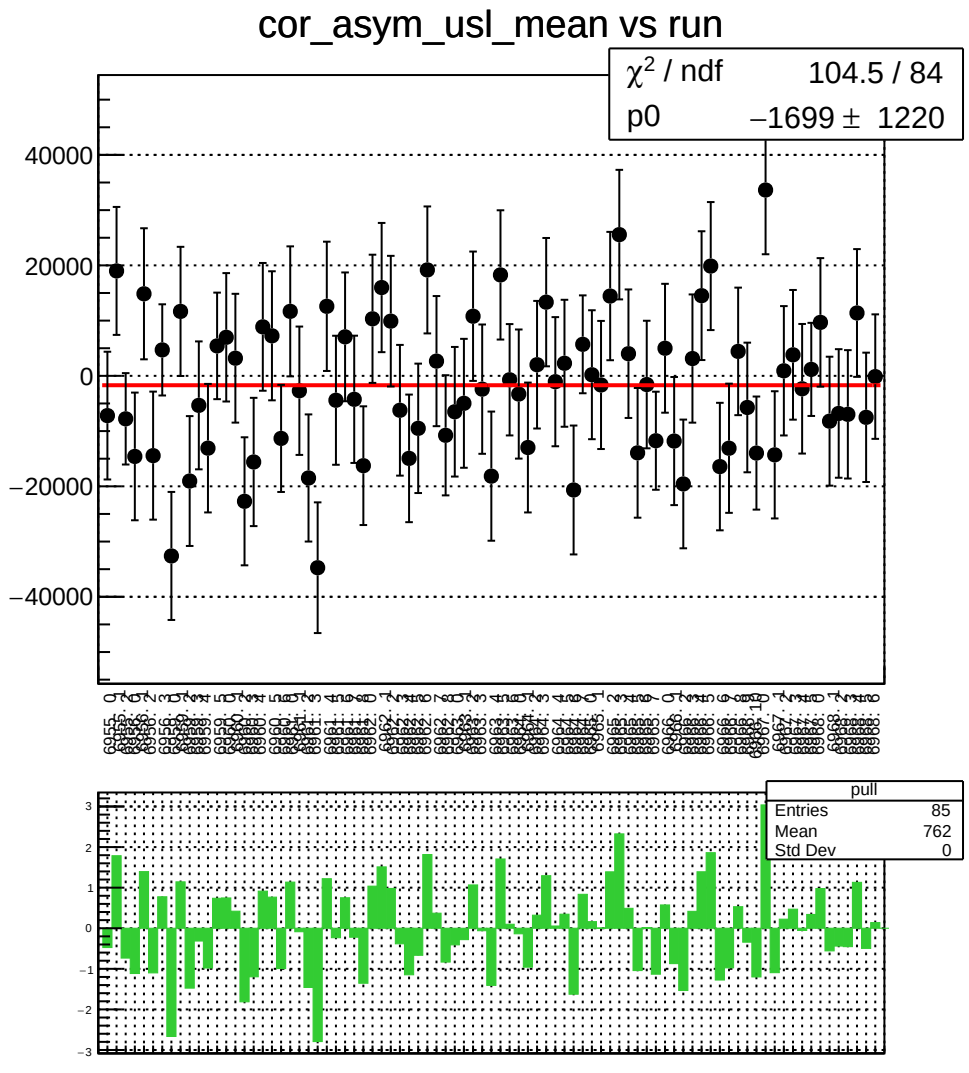

pull1D
Entries 85
Mean 0.003835
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

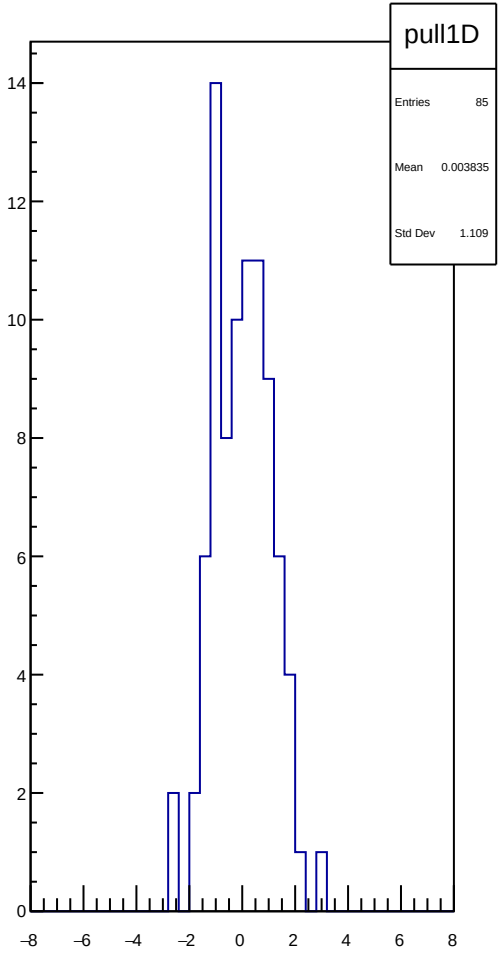

reg_asym_usl_rms vs run
χ² / ndf 76.77 / 84
p0 1105 ± 0.8623
1130
1120
1110
1100
1090
1080

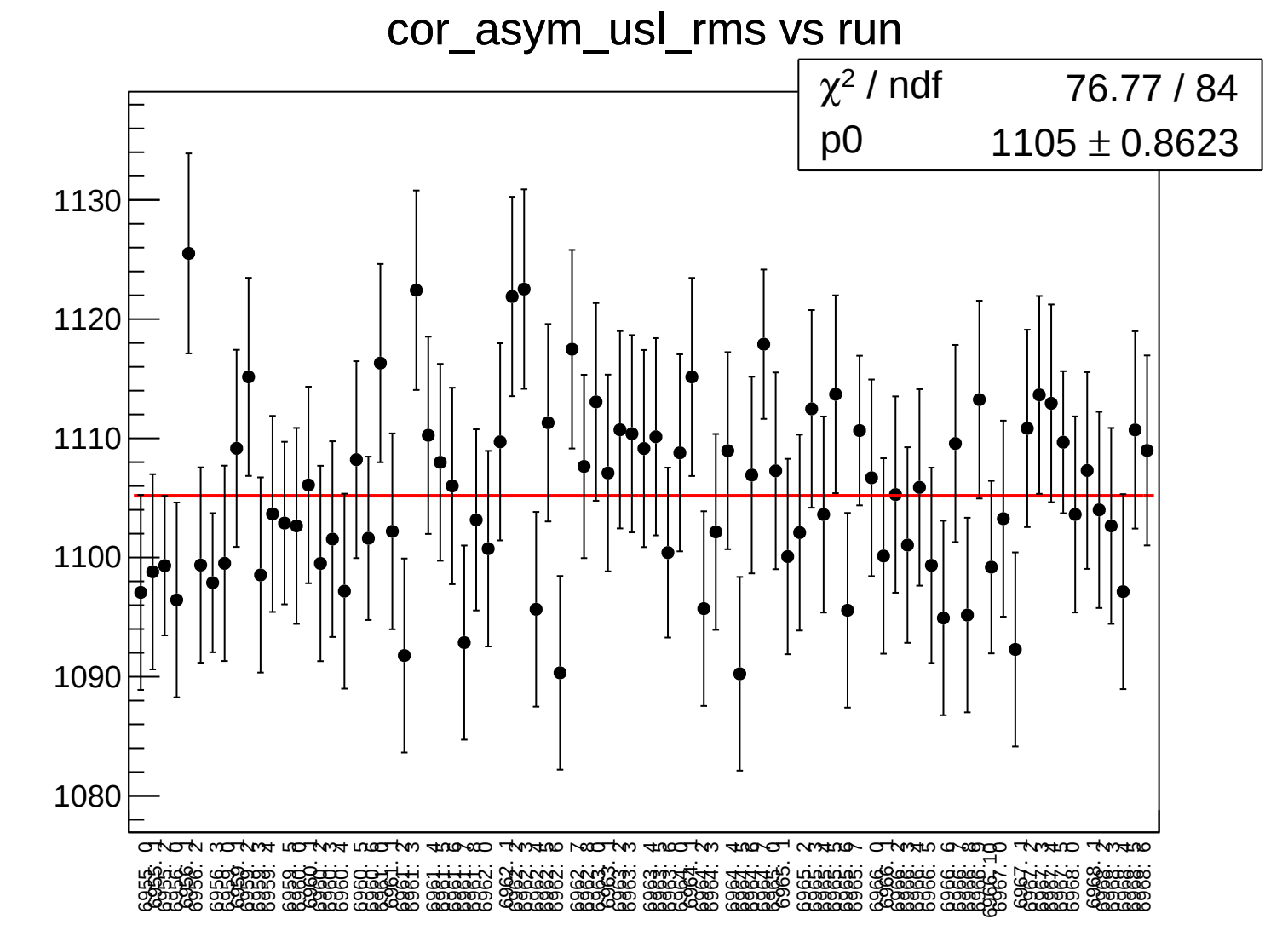

asym_usl_reg_correction_mean vs run
χ² / ndf 98.77 / 84
p0 −992.1± 1937
pull
Entries 85
Mean 94.51
Std Dev 73.26

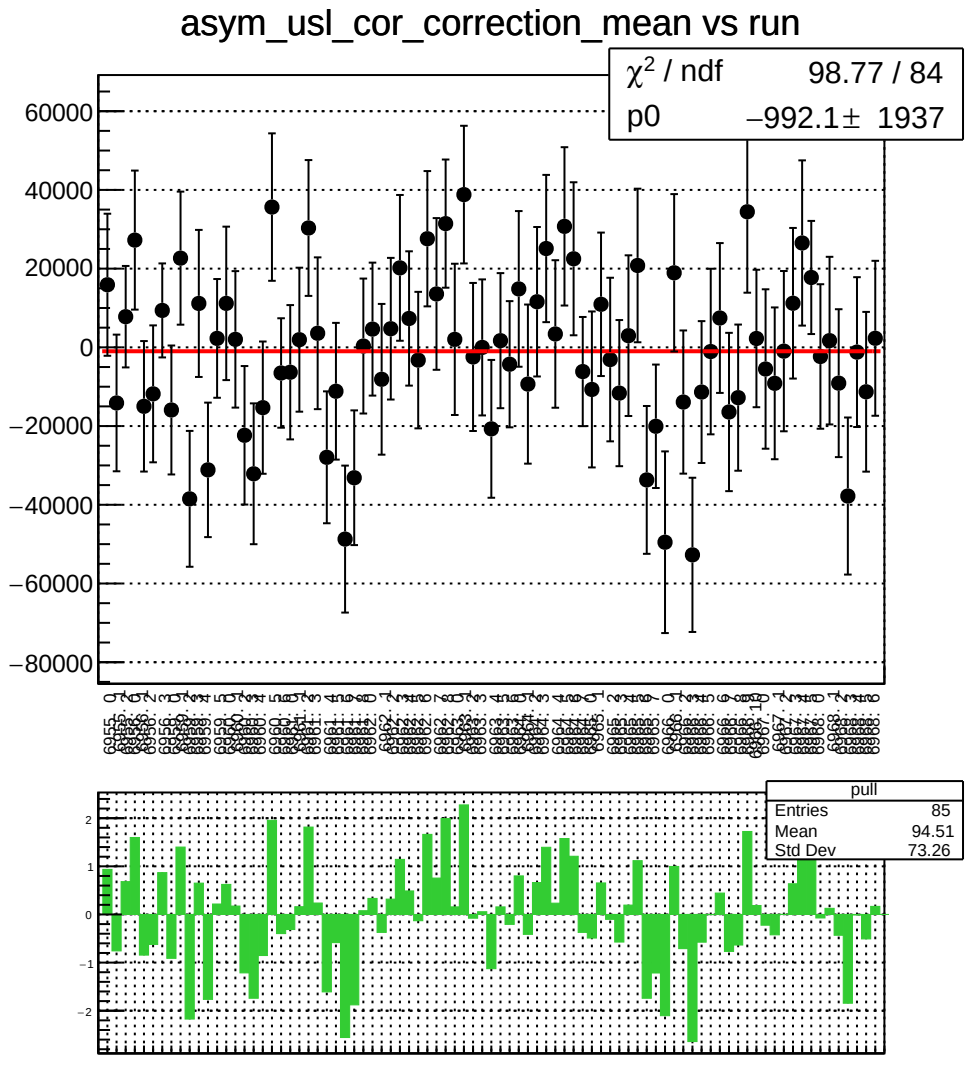

pull1D
Entries 85
Mean −0.005842
Std Dev 1.078

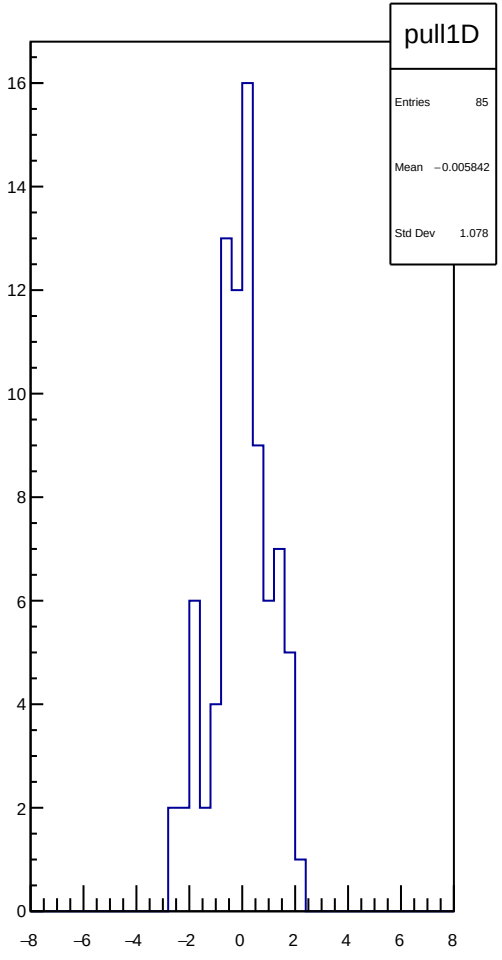

asym_usl_reg_correction_rms vs run
χ² / ndf 8131 / 84
p0 1751 ± 1.37
2200
2100
2000
1900
1800
1700
1600
1500

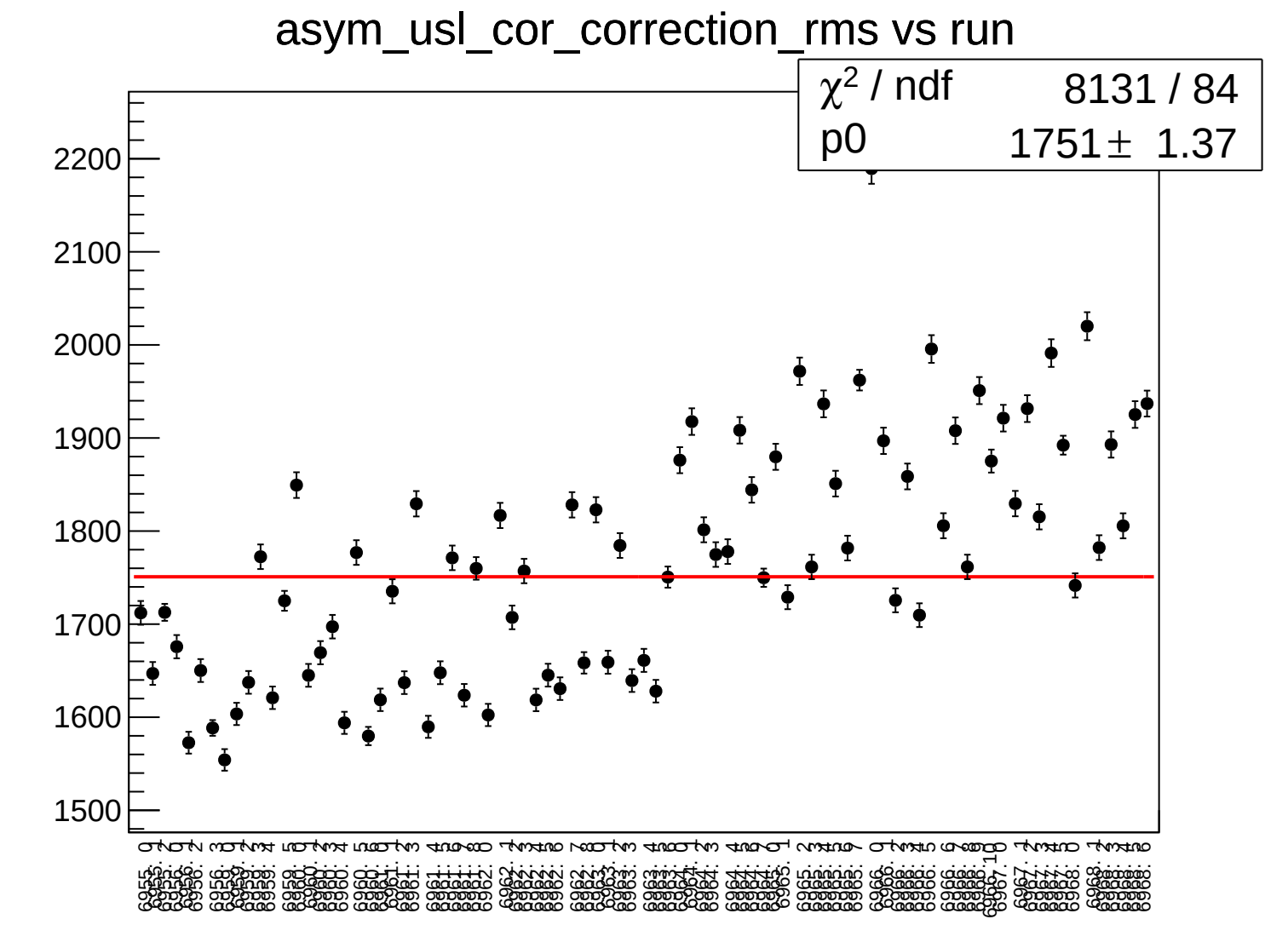

cor_asym_usl_mean vs run
χ² / ndf 104.5 / 84
p0 −1699 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 762
Std Dev 0
3
2
1
0
−1
−2
−3

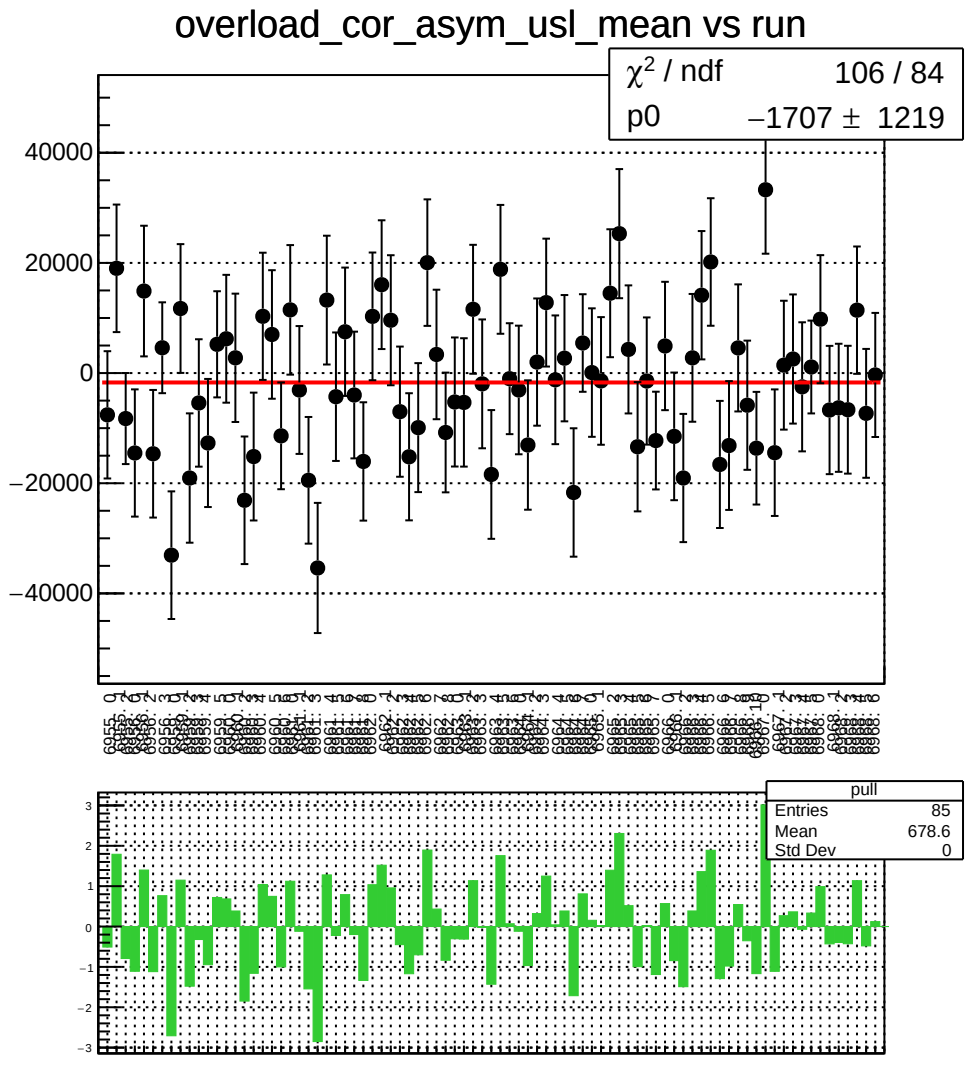

pull1D
Entries 85
Mean 0.003835
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

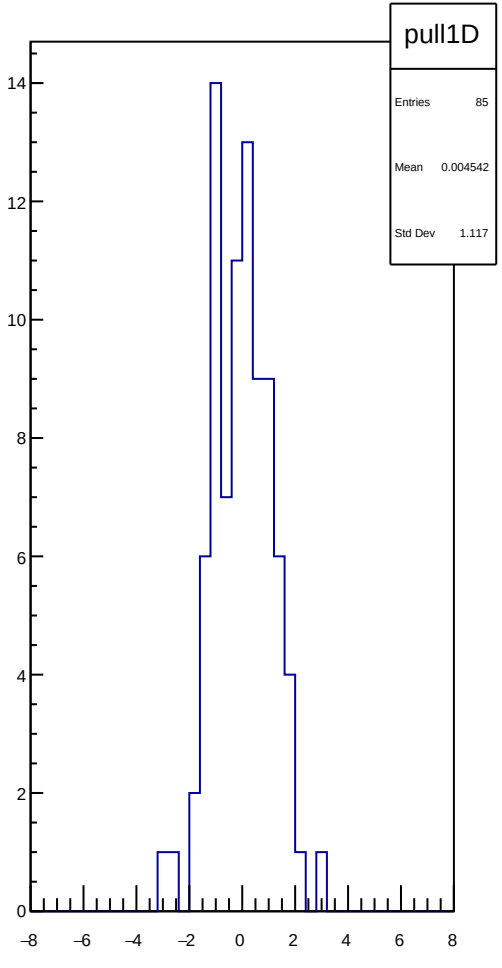

cor_asym_usl_rms vs run
$\chi^2$ / ndf 76.77 / 84
p0 1105 ± 0.8623
1130
1120
1110
1100
1090
1080

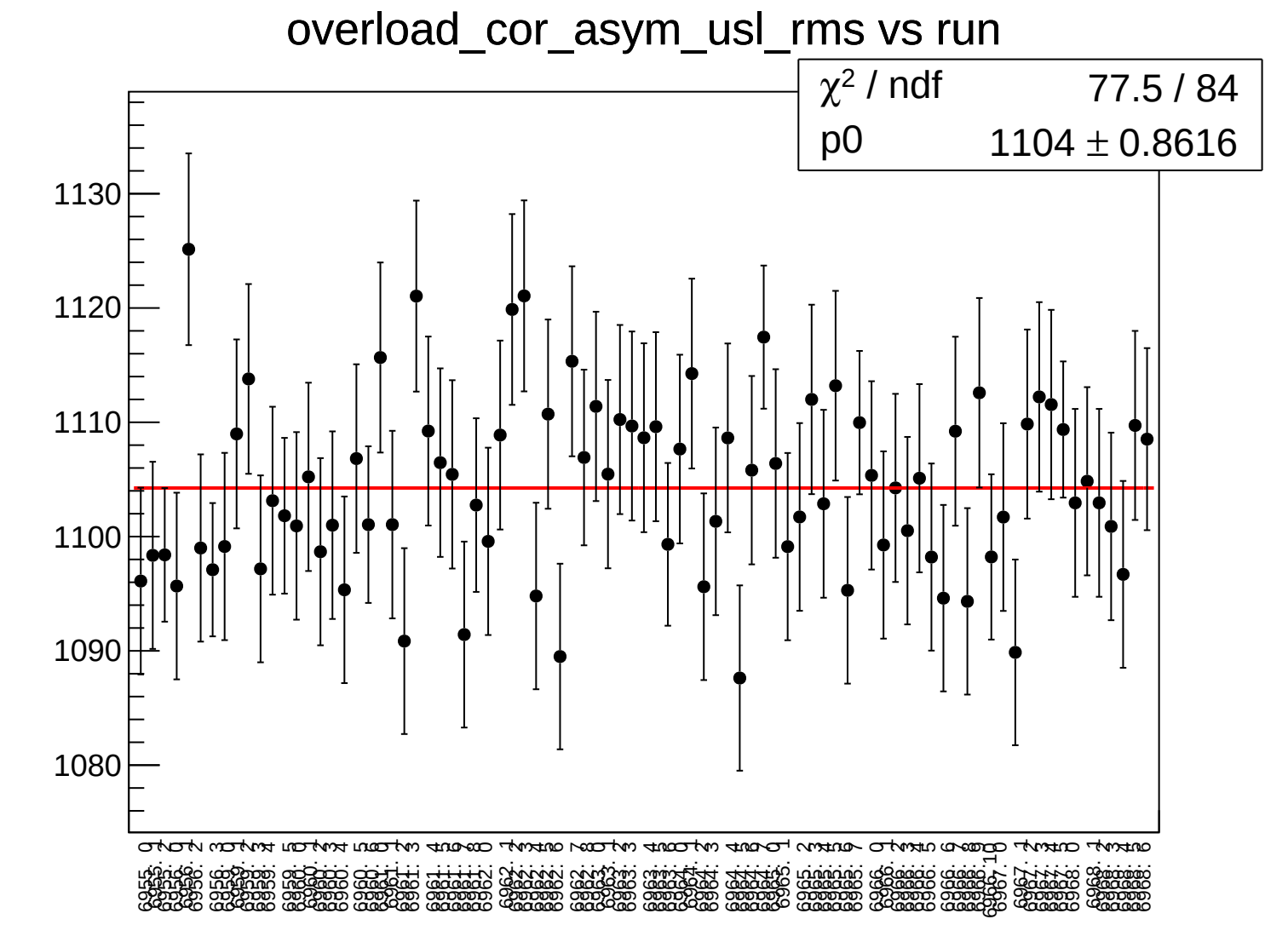

asym_usl_cor_correction_mean vs run
χ² / ndf 98.77 / 84
p0 −992.1± 1937
pull
Entries 85
Mean 94.51
Std Dev 73.26

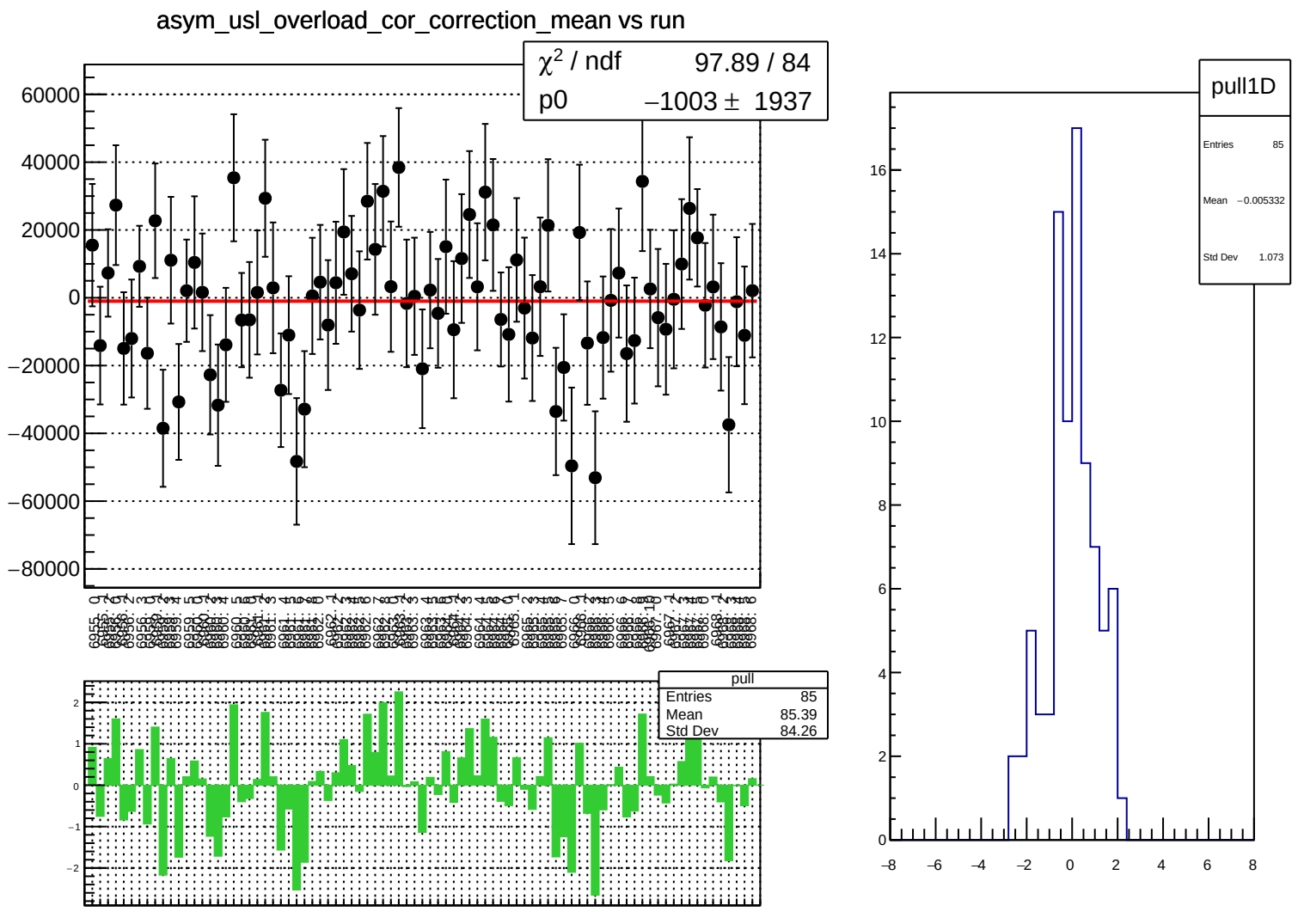

pull1D
Entries 85
Mean −0.005842
Std Dev 1.078

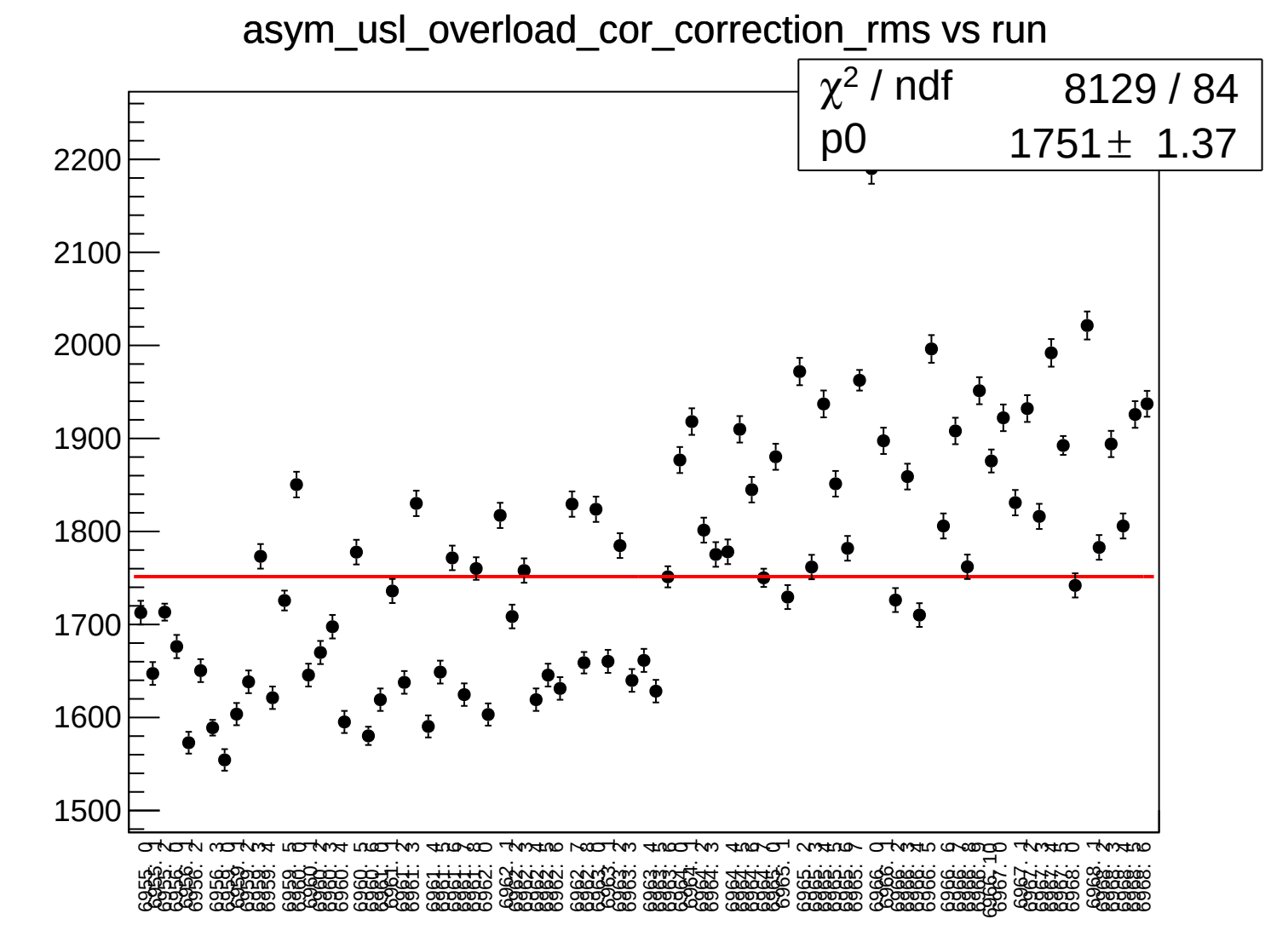

asym_usl_cor_correction_rms vs run
χ² / ndf 8131 / 84
p0 1751 ± 1.37
2200
2100
2000
1900
1800
1700
1600
1500

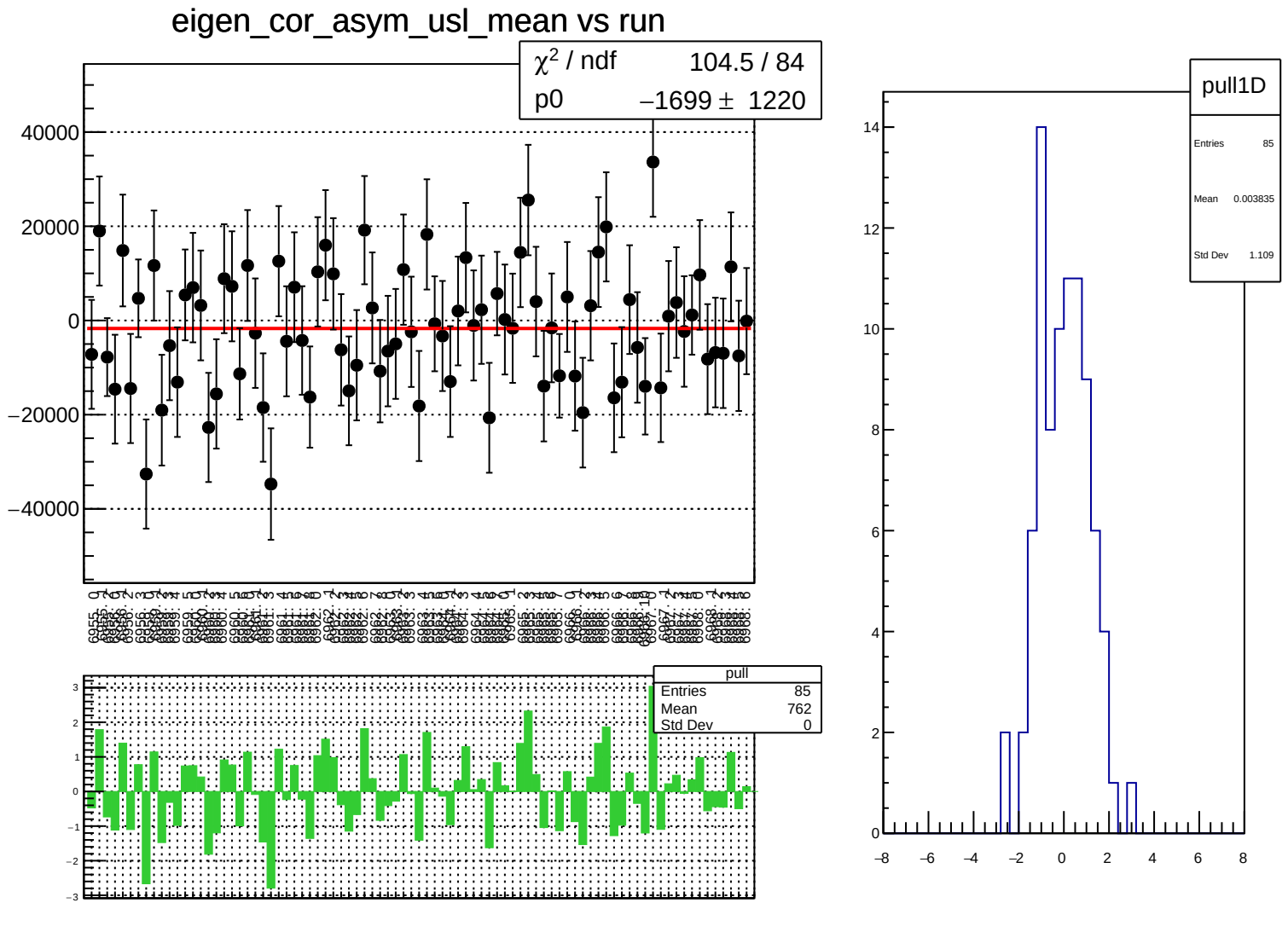

overload_cor_asym_usl_mean vs run
χ² / ndf 106 / 84
p0 −1707 ± 1219
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 678.6
Std Dev 0
3
2
1
0
−1
−2
−3

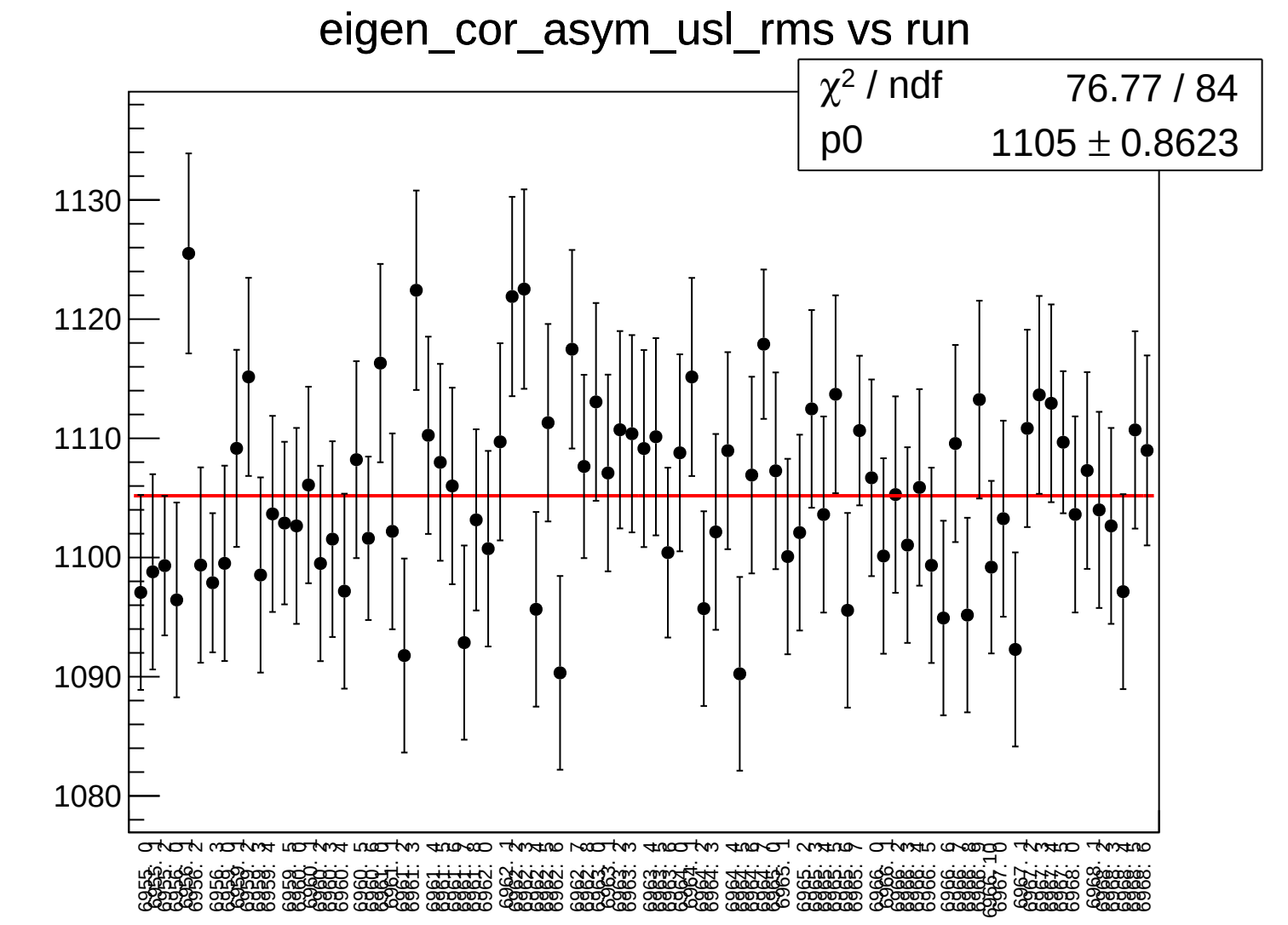

pull1D
Entries 85
Mean 0.004542
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

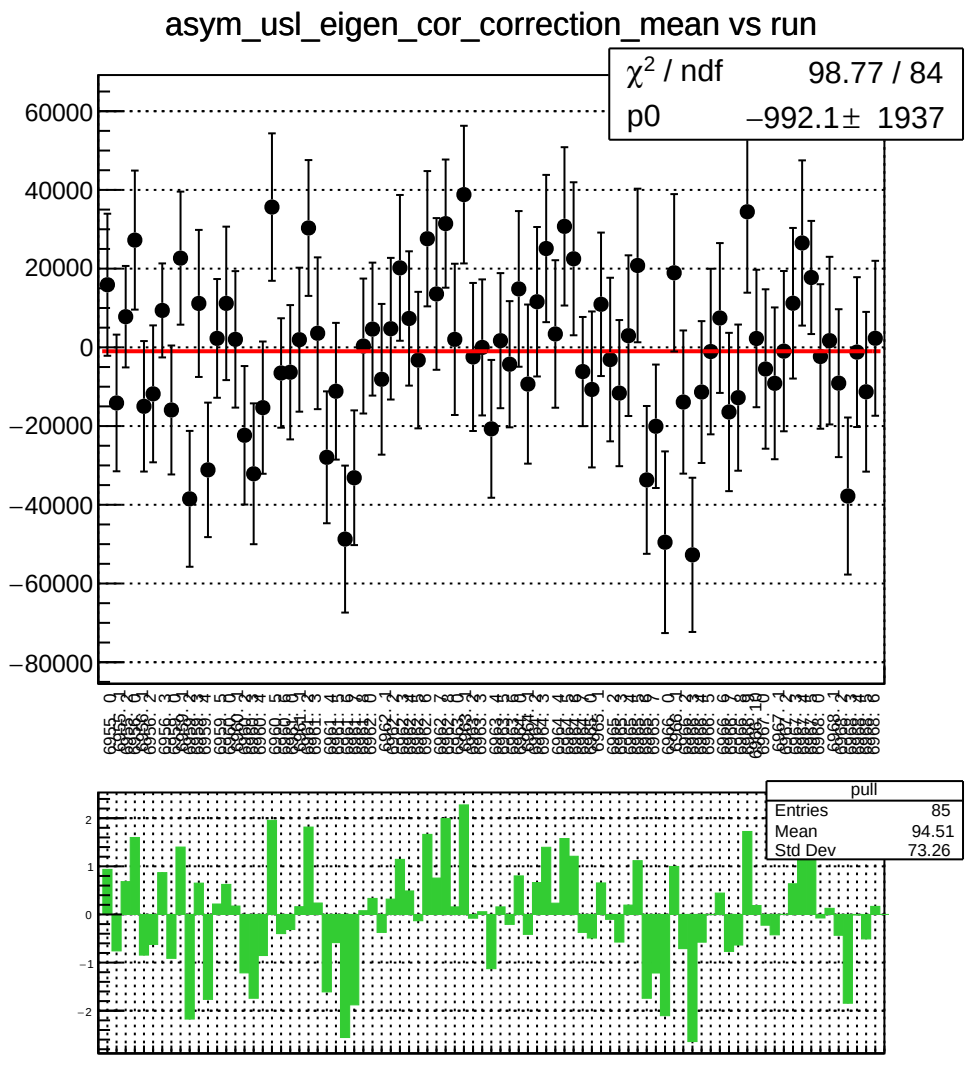

overload_cor_asym_usl_rms vs run
χ² / ndf 77.5 / 84
p0 1104 ± 0.8616
1130
1120
1110
1100
1090
1080

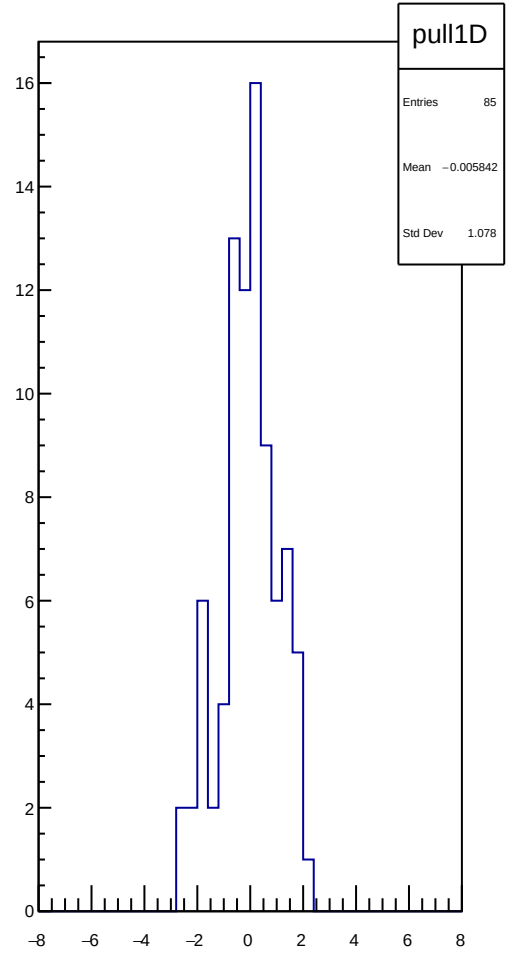

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 97.89 / 84
p0 −1003 ± 1937
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 85.39
Std Dev 84.26
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.005332
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

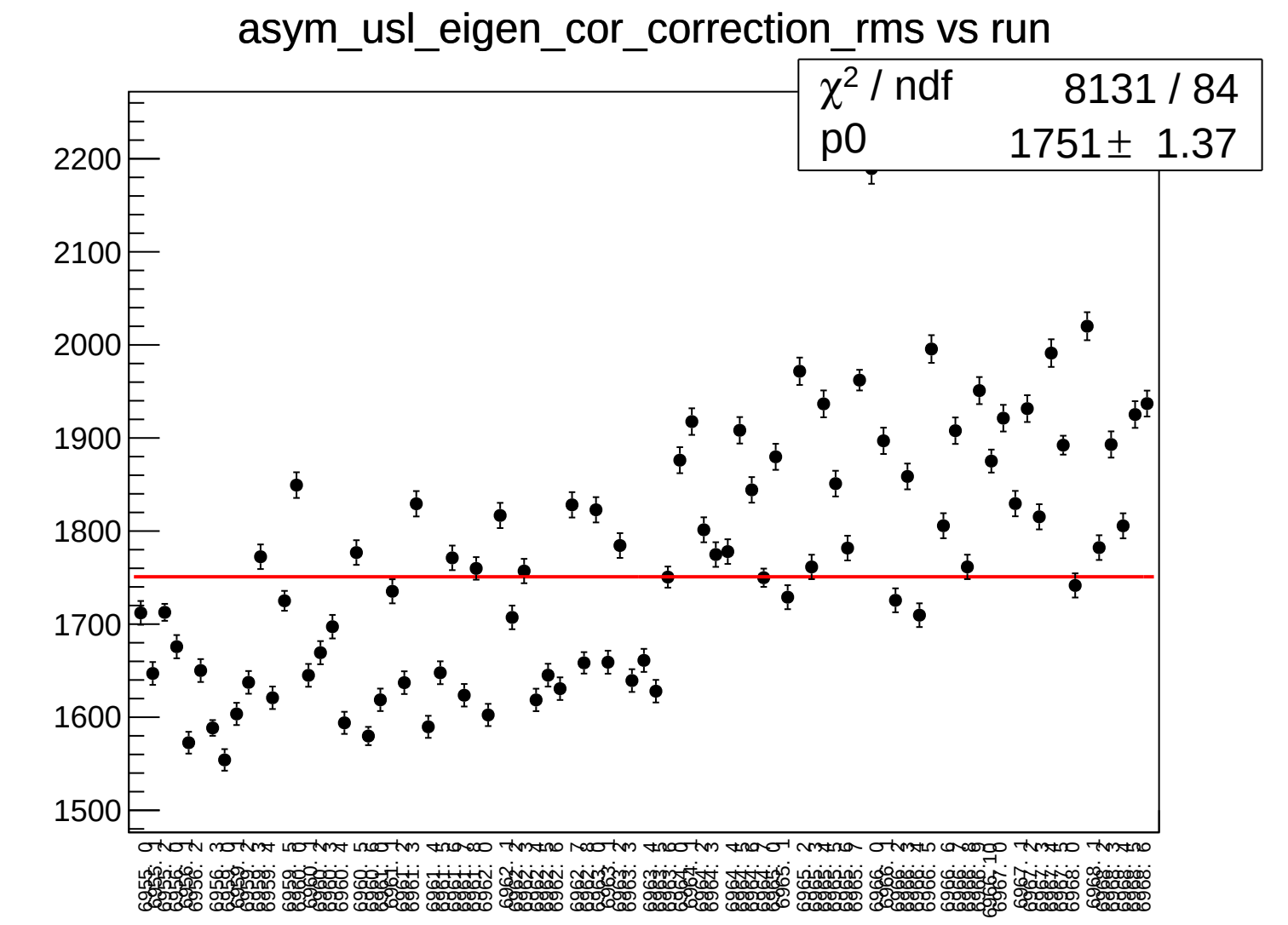

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 8129 / 84
p0 1751 ± 1.37
2200
2100
2000
1900
1800
1700
1600
1500

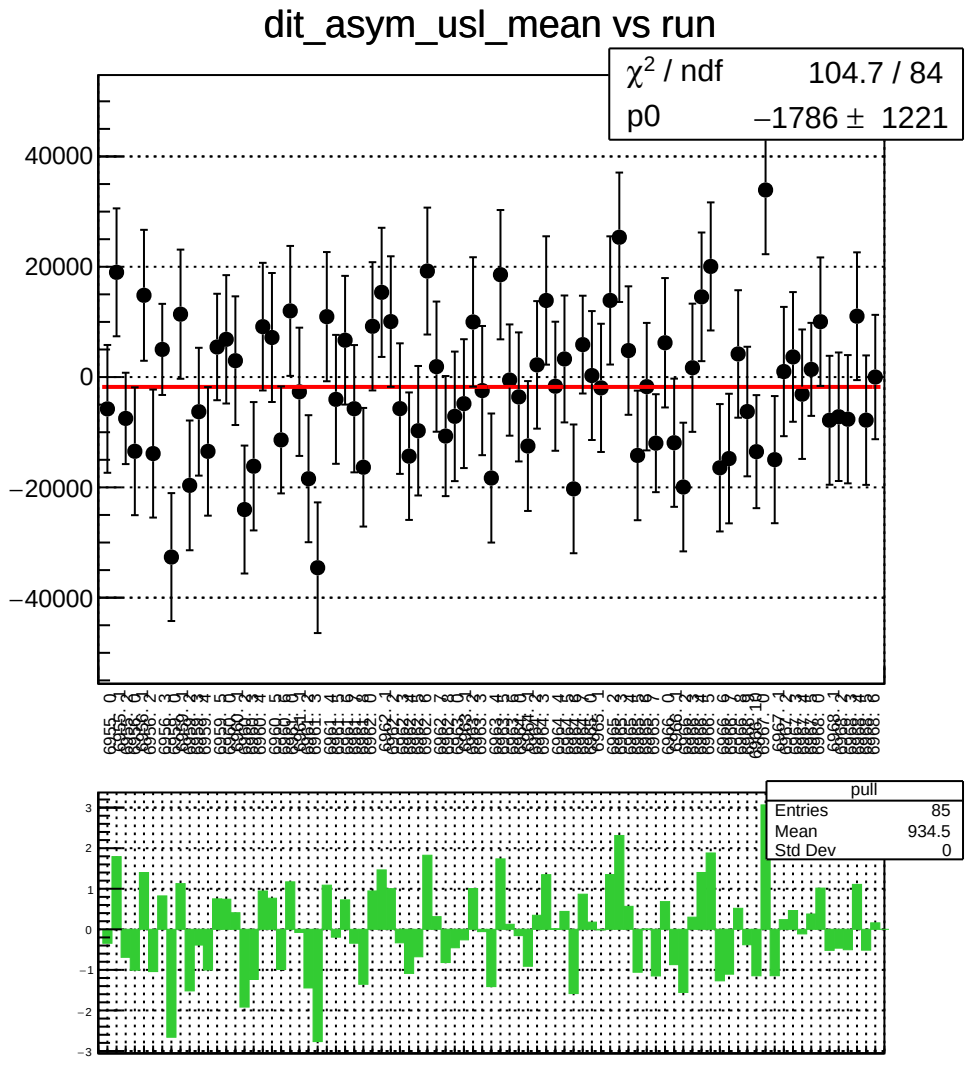

eigen_cor_asym_usl_mean vs run
χ² / ndf 104.5 / 84
p0 −1699 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 762
Std Dev 0
pull1D
Entries 85
Mean 0.003835
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

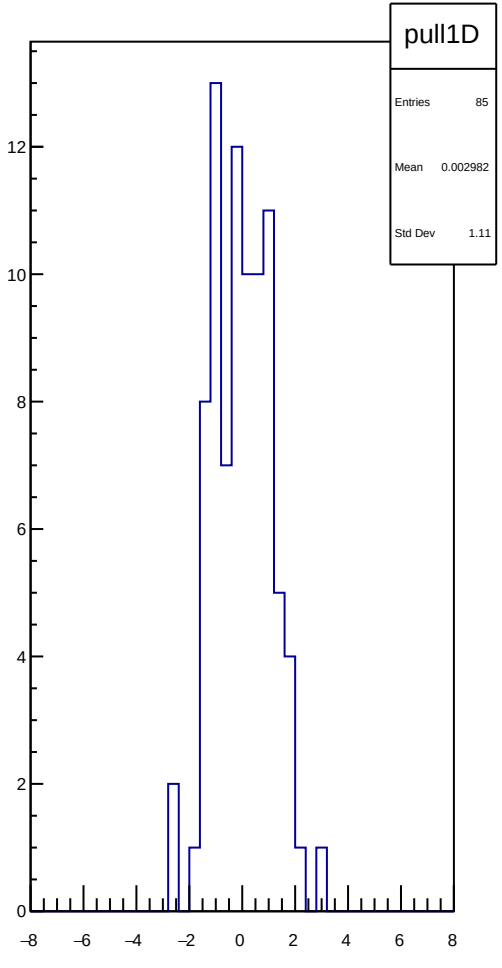

eigen_cor_asym_usl_rms vs run
χ² / ndf 76.77 / 84
p0 1105 ± 0.8623
1130
1120
1110
1100
1090
1080

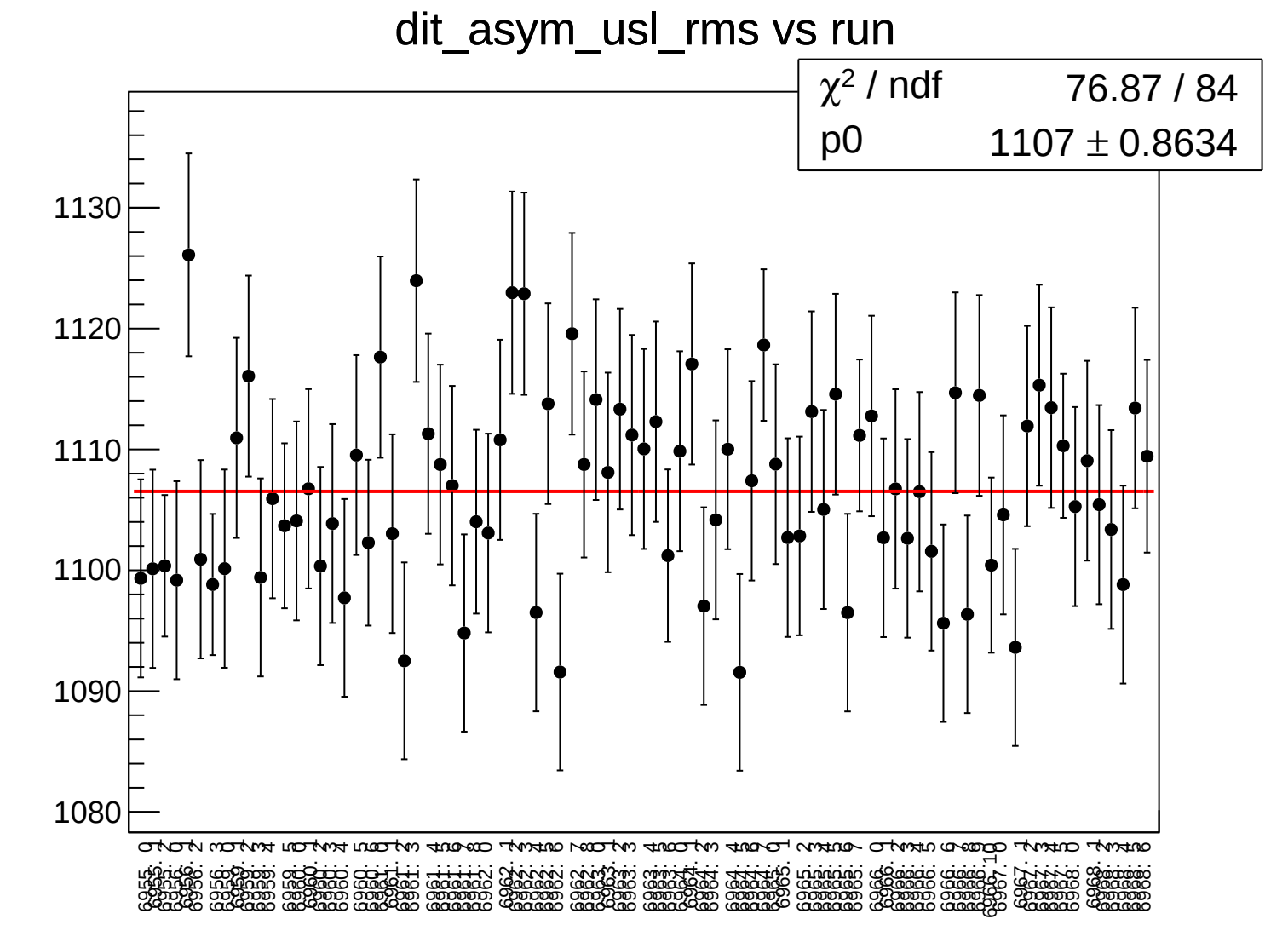

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 98.77 / 84
p0 −992.1± 1937
pull
Entries 85
Mean 94.51
Std Dev 73.26

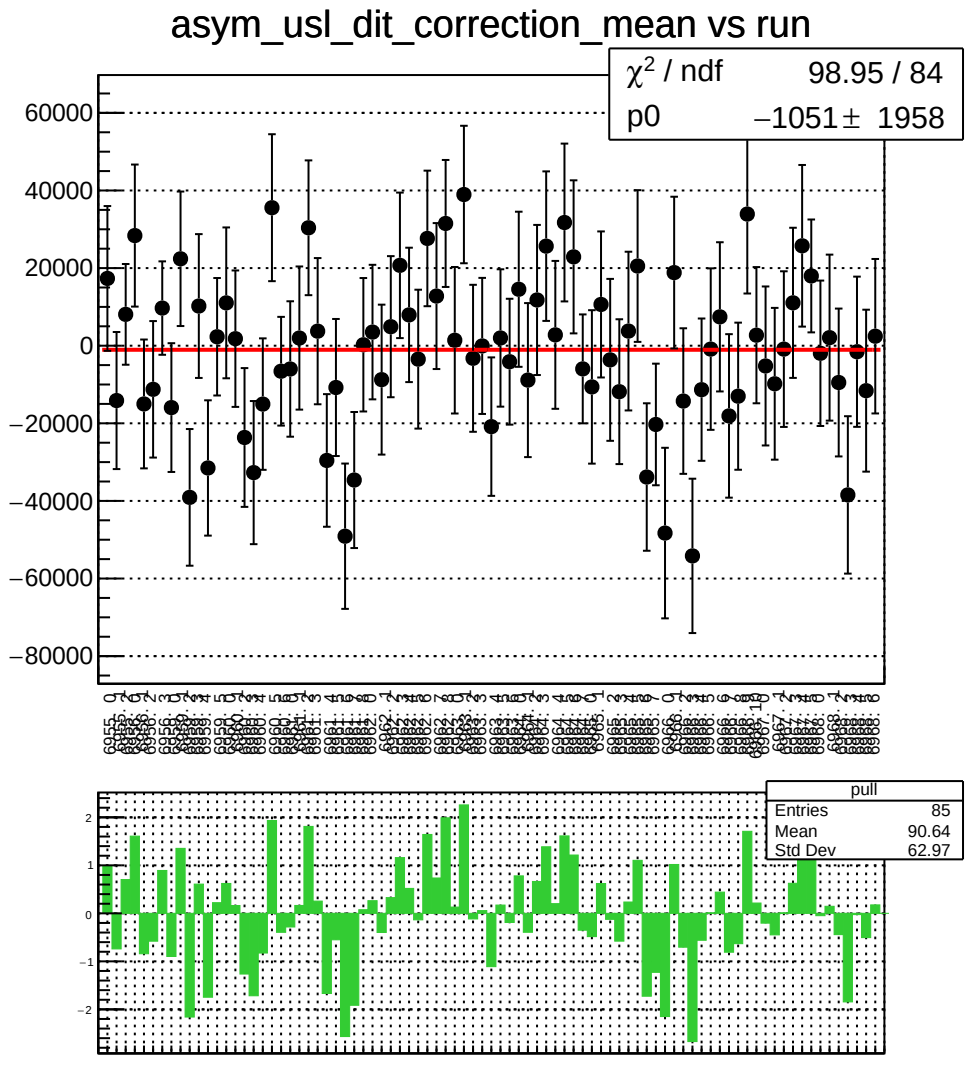

pull1D
Entries 85
Mean −0.005842
Std Dev 1.078

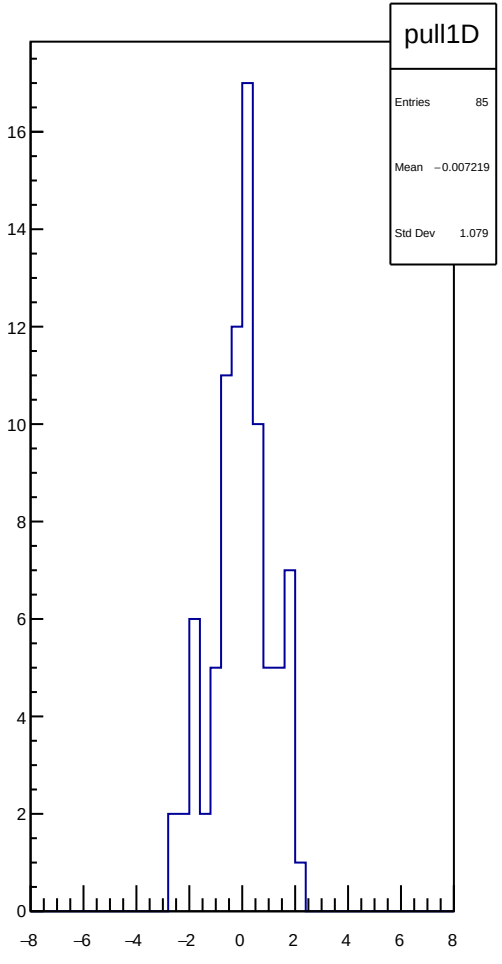

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 8131 / 84
p0 1751 ± 1.37
2200
2100
2000
1900
1800
1700
1600
1500

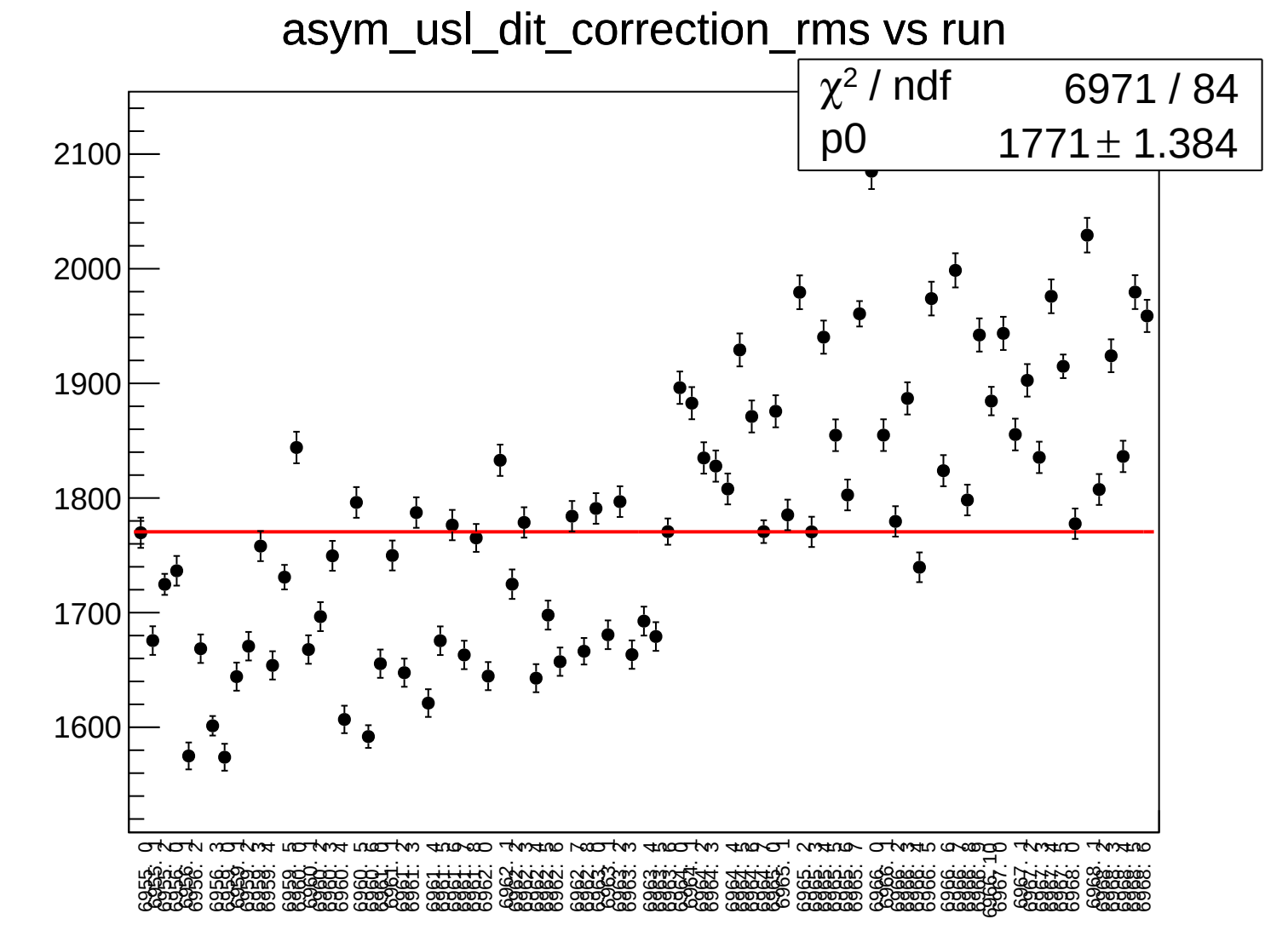

dit_asym_usl_mean vs run
χ² / ndf 104.7 / 84
p0 −1786 ± 1221
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 934.5
Std Dev 0
3
2
1
0
−1
−2
−3

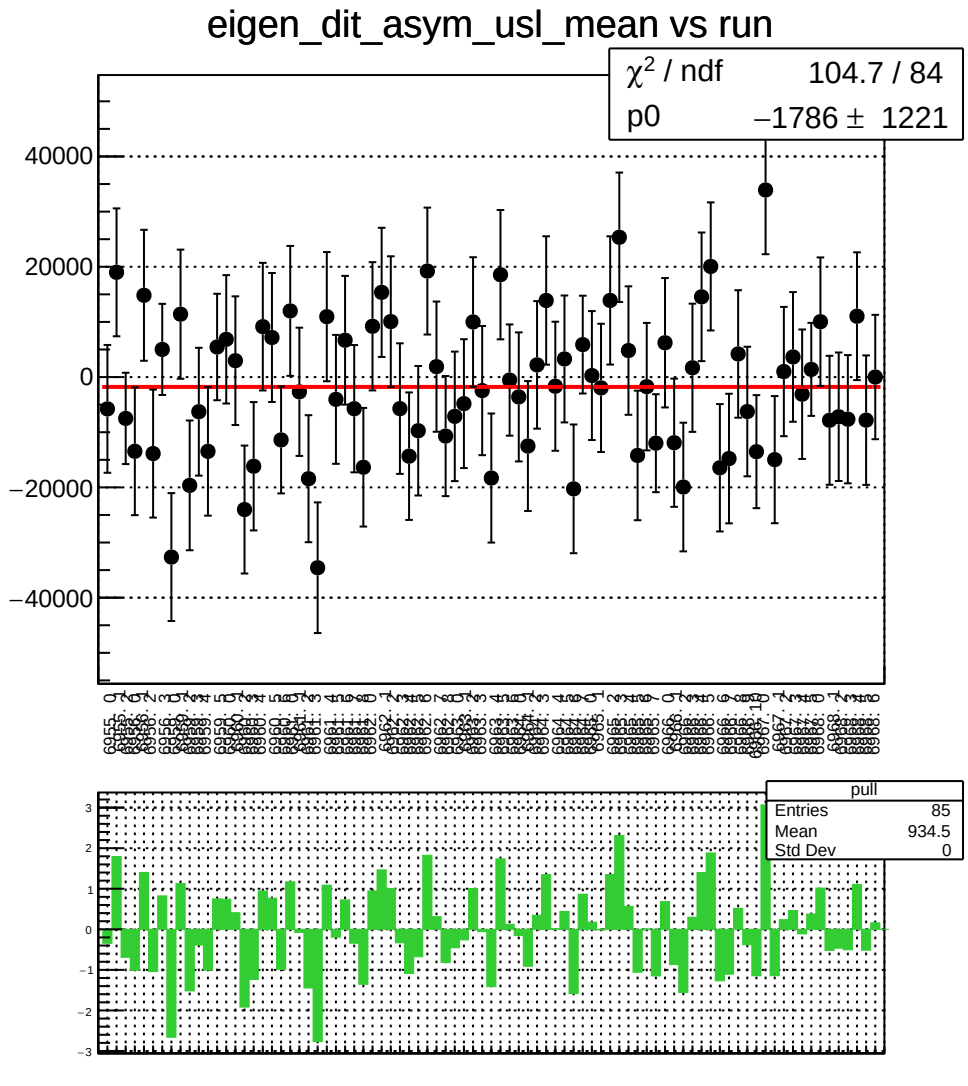

pull1D
Entries 85
Mean 0.002982
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

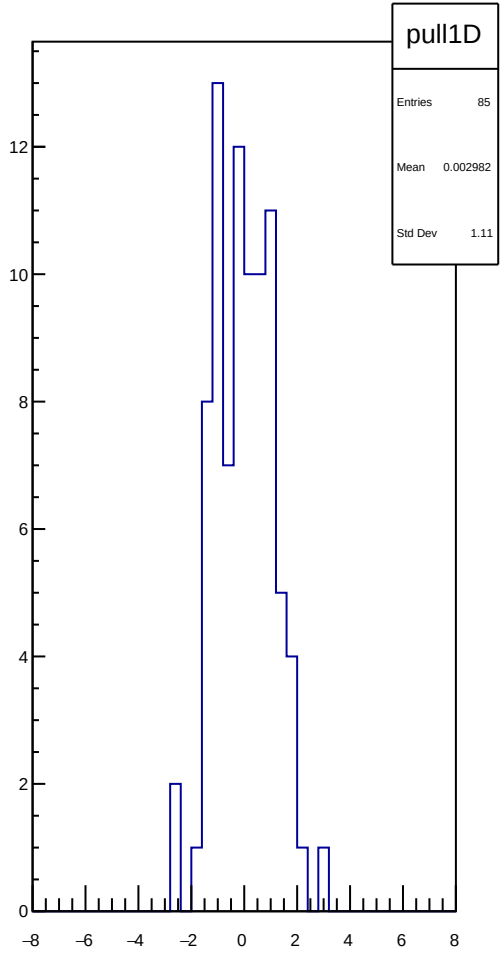

dit_asym_usl_rms vs run
$\chi^2$ / ndf 76.87 / 84
p0 1107 ± 0.8634
1130
1120
1110
1100
1090
1080

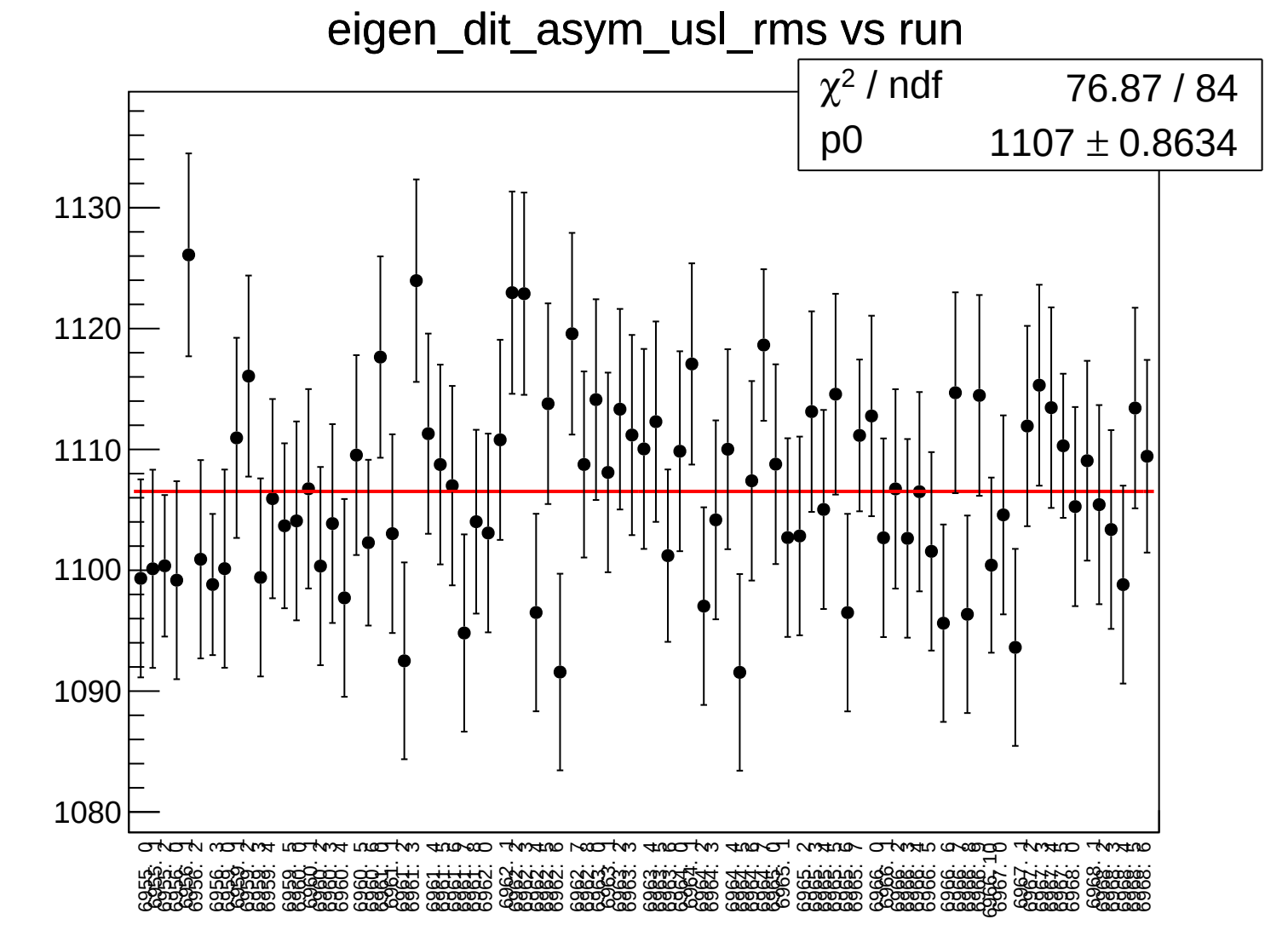

asym_usl_dit_correction_mean vs run
χ² / ndf 98.95 / 84
p0 −1051 ± 1958
pull
Entries 85
Mean 90.64
Std Dev 62.97

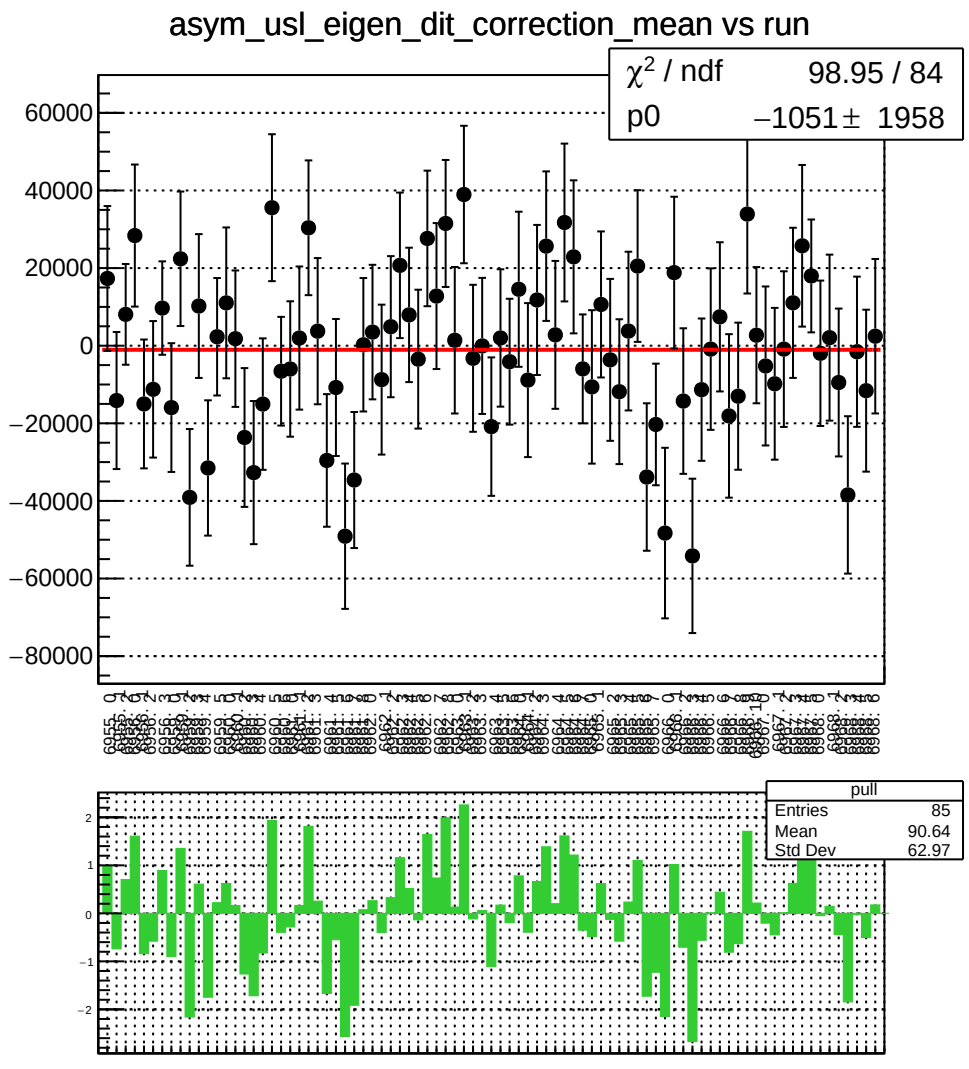

pull1D
Entries 85
Mean −0.007219
Std Dev 1.079

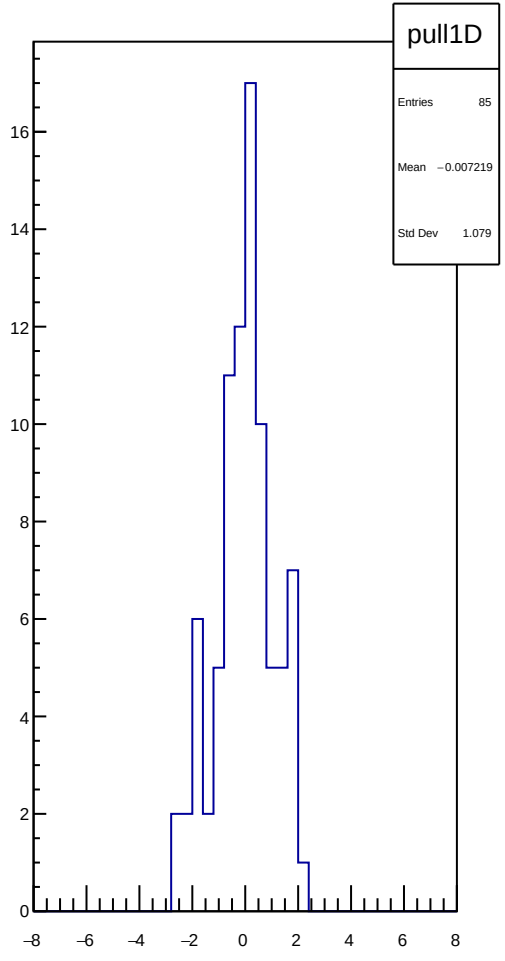

asym_usl_dit_correction_rms vs run
χ² / ndf 6971 / 84
p0 1771 ± 1.384
2100
2000
1900
1800
1700
1600

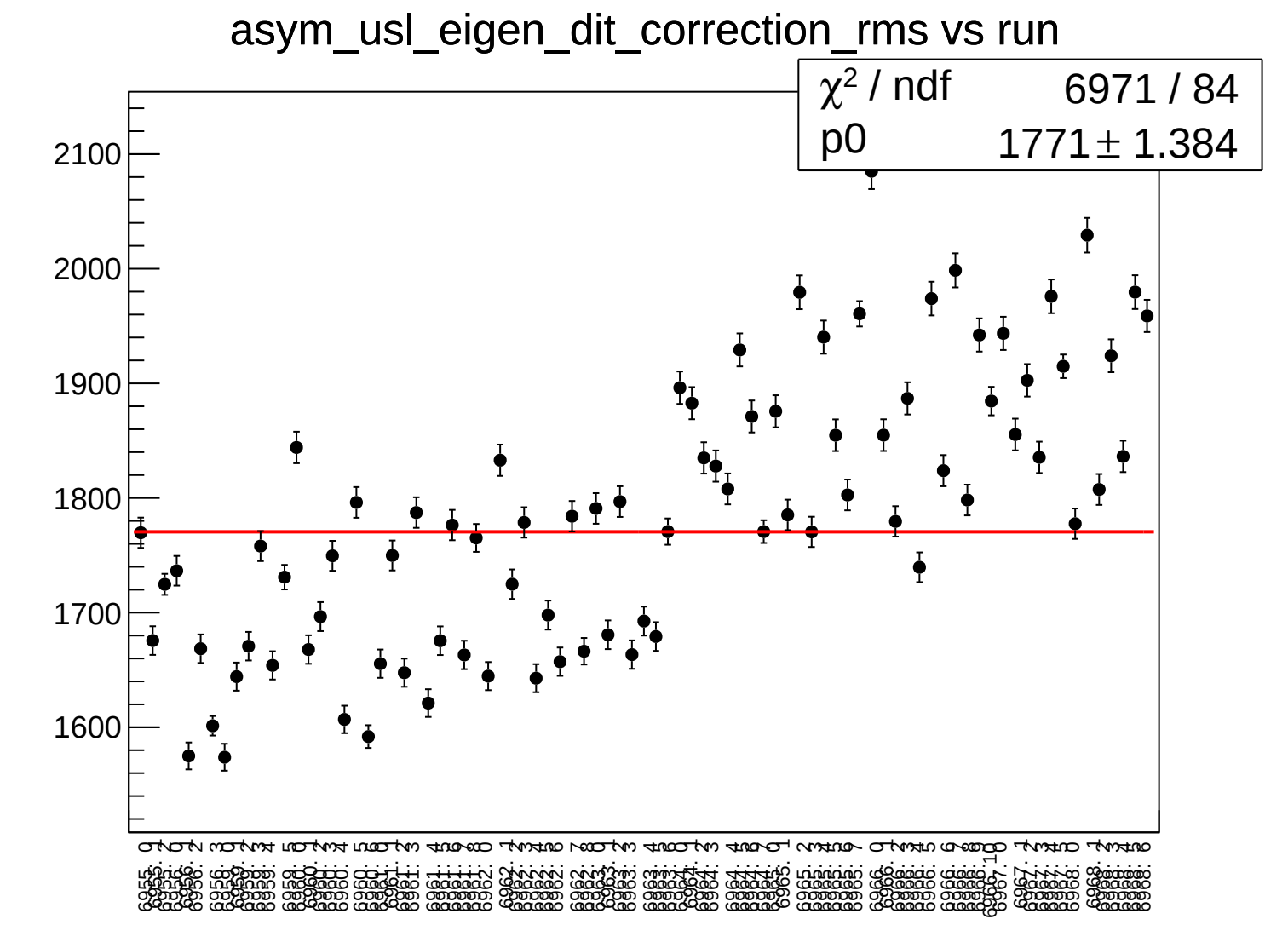

eigen_dit_asym_usl_mean vs run
χ² / ndf 104.7 / 84
p0 −1786 ± 1221
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 934.5
Std Dev 0
3
2
1
0
−1
−2
−3

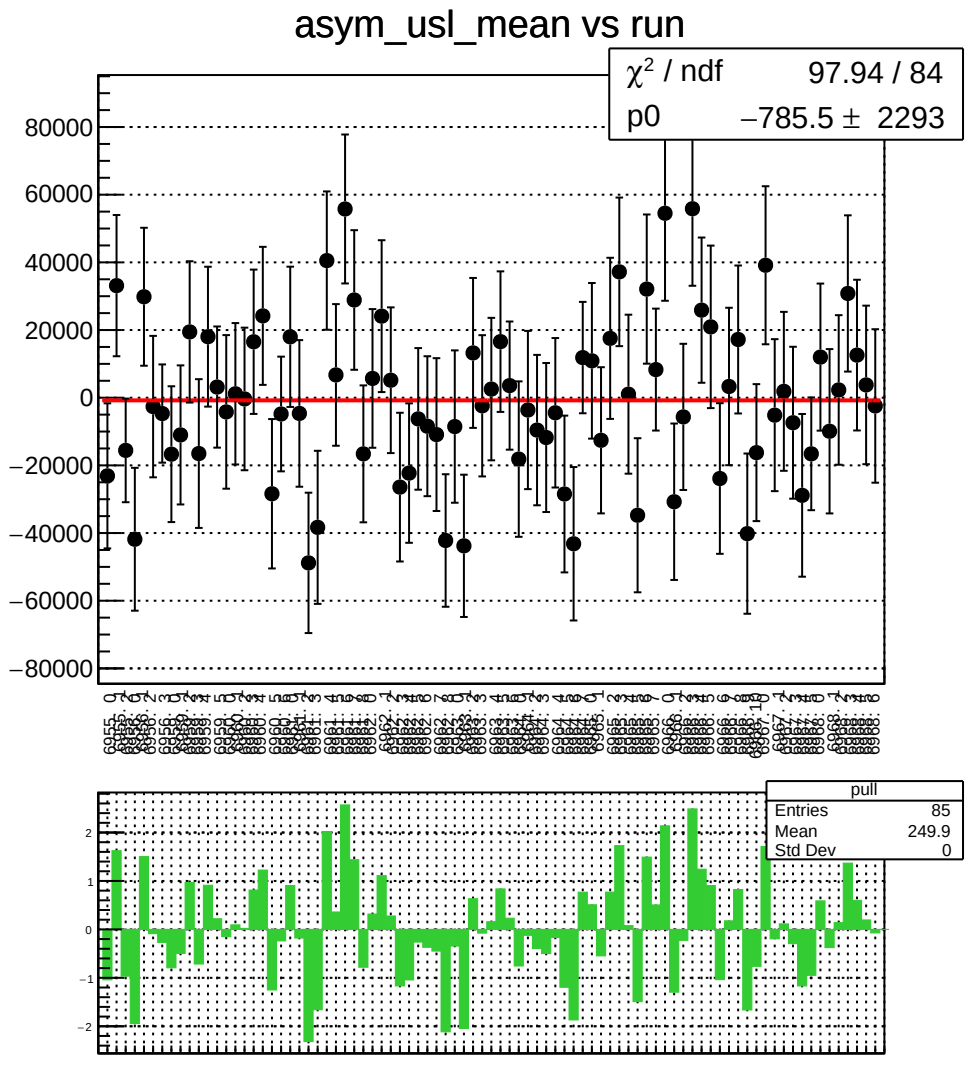

pull1D
Entries 85
Mean 0.002982
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

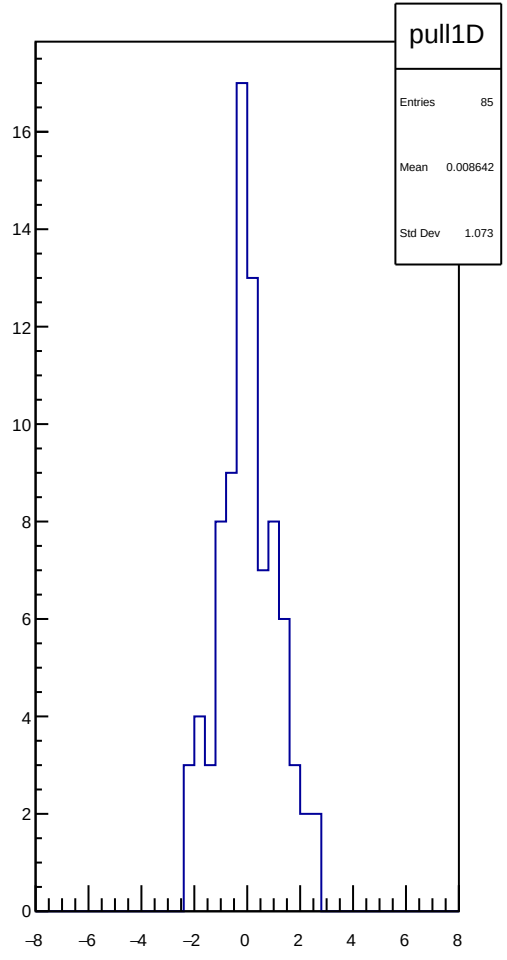

eigen_dit_asym_usl_rms vs run
$\chi^2$ / ndf 76.87 / 84
p0 1107 ± 0.8634
1130
1120
1110
1100
1090
1080

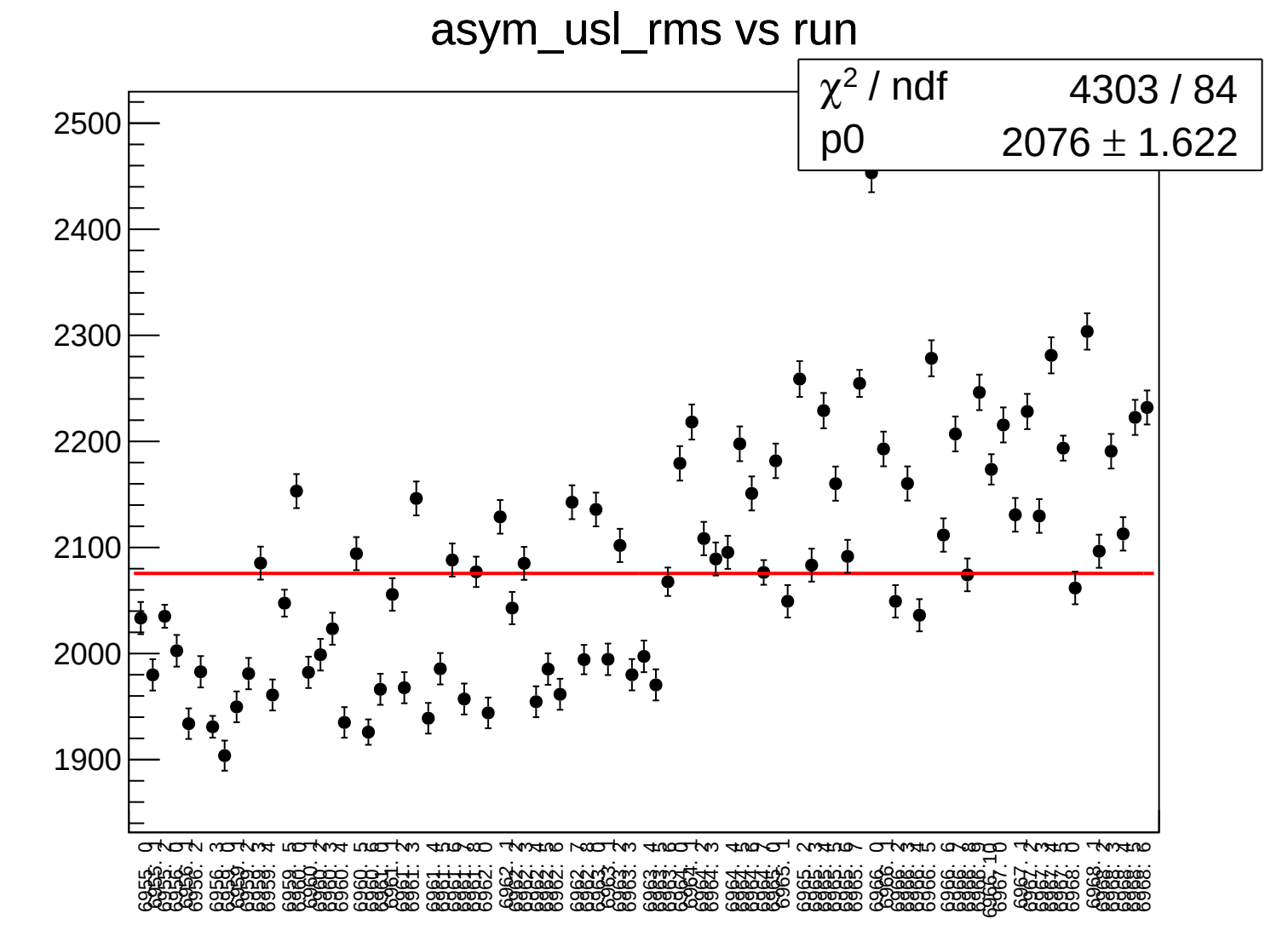

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 98.95 / 84
p0 −1051 ± 1958
pull
Entries 85
Mean 90.64
Std Dev 62.97

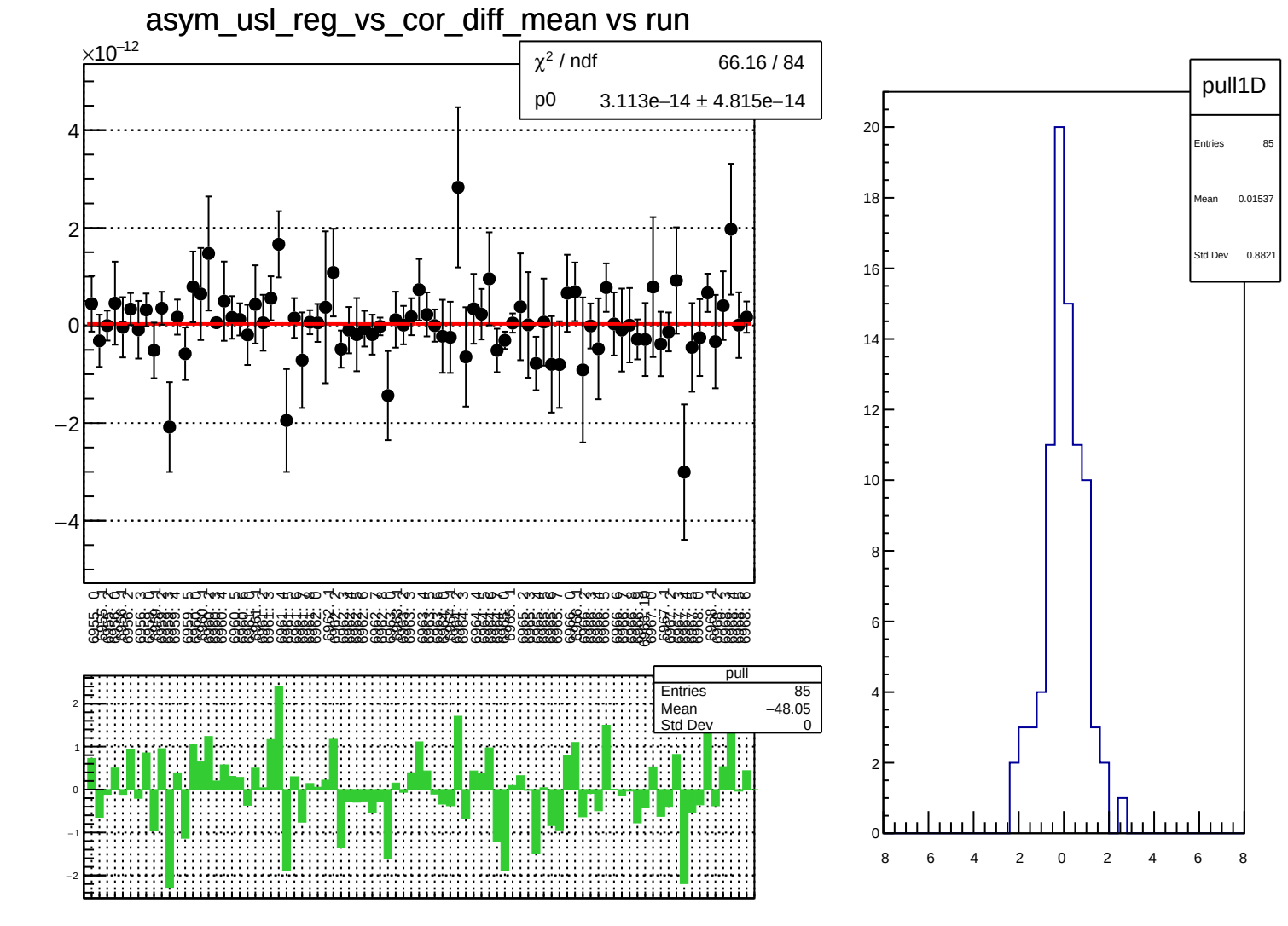

pull1D
Entries 85
Mean −0.007219
Std Dev 1.079

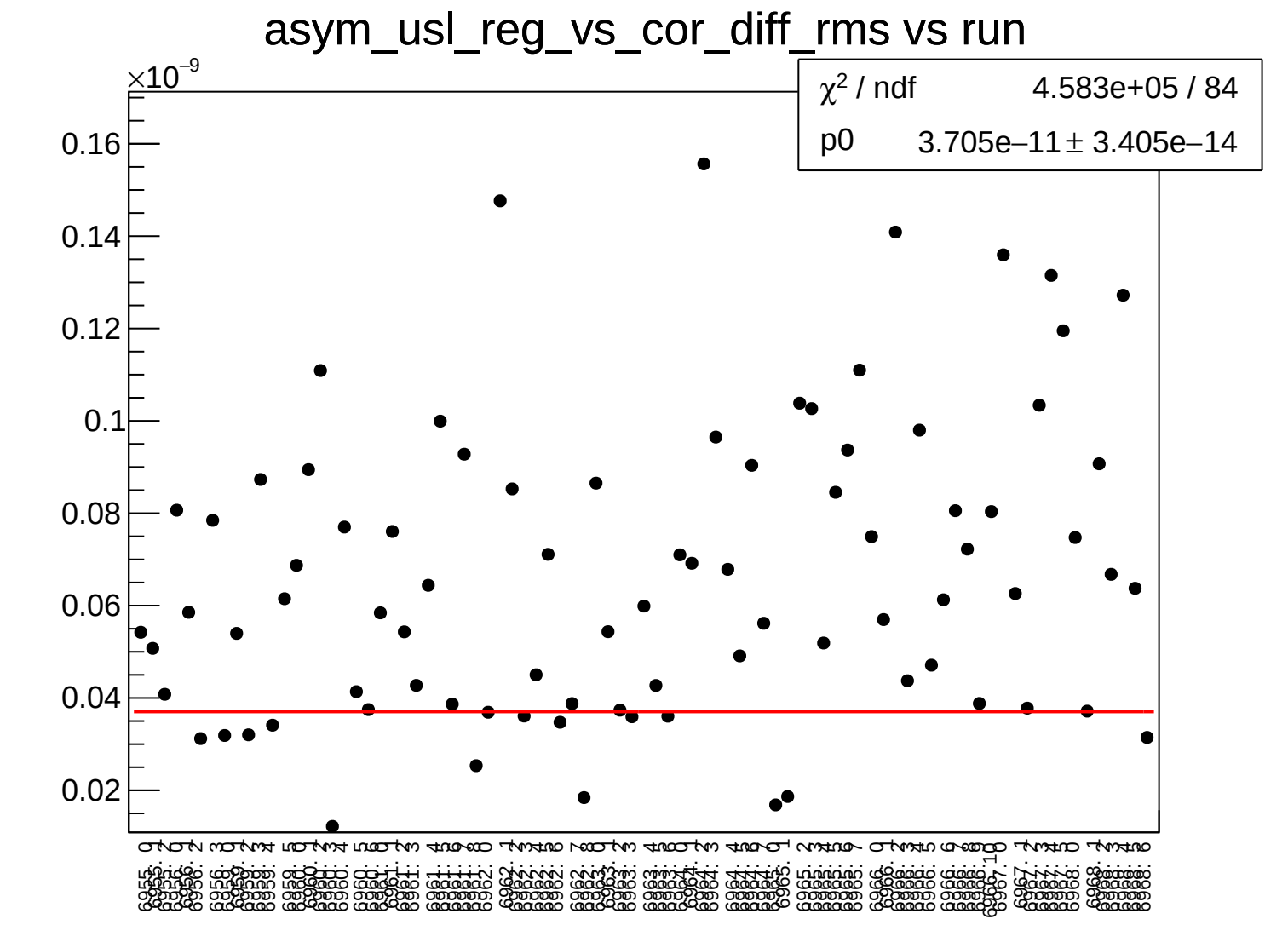

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 6971 / 84
p0 1771 ± 1.384
2100
2000
1900
1800
1700
1600

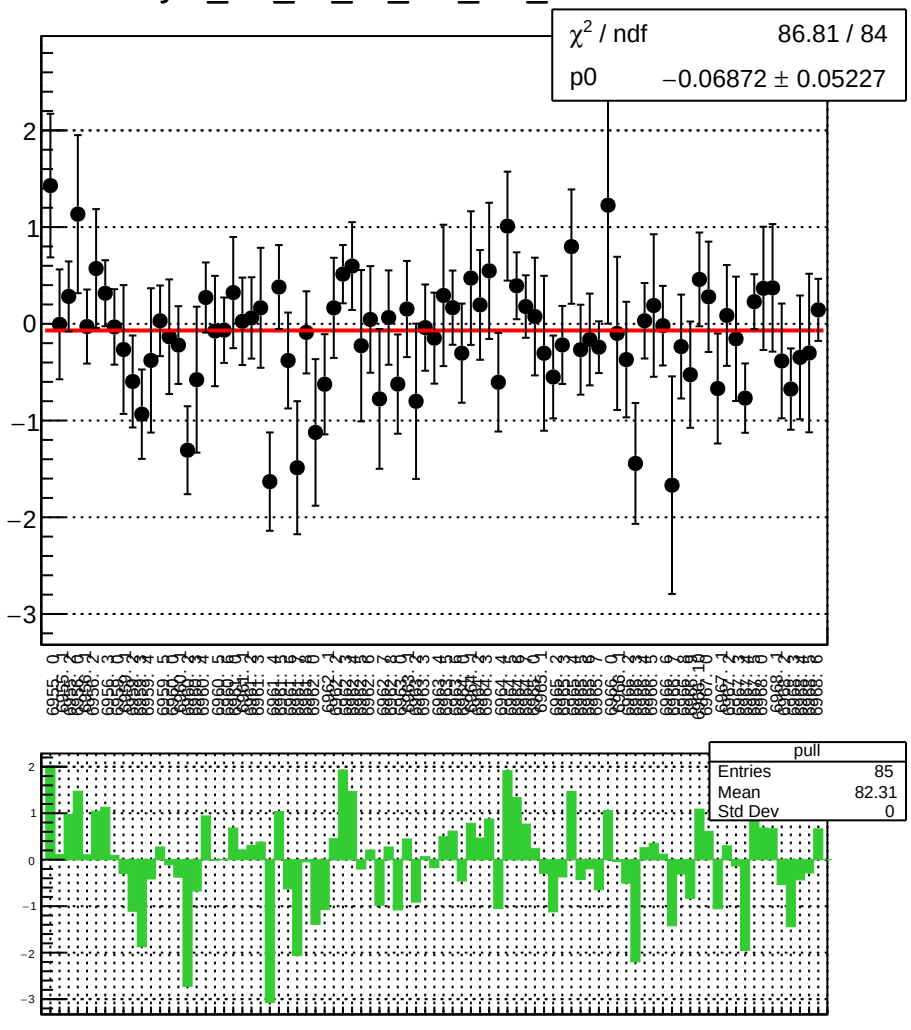

asym_usl_mean vs run
χ² / ndf 97.94 / 84
p0 −785.5 ± 2293
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 249.9
Std Dev 0
2
1
0
−1
−2

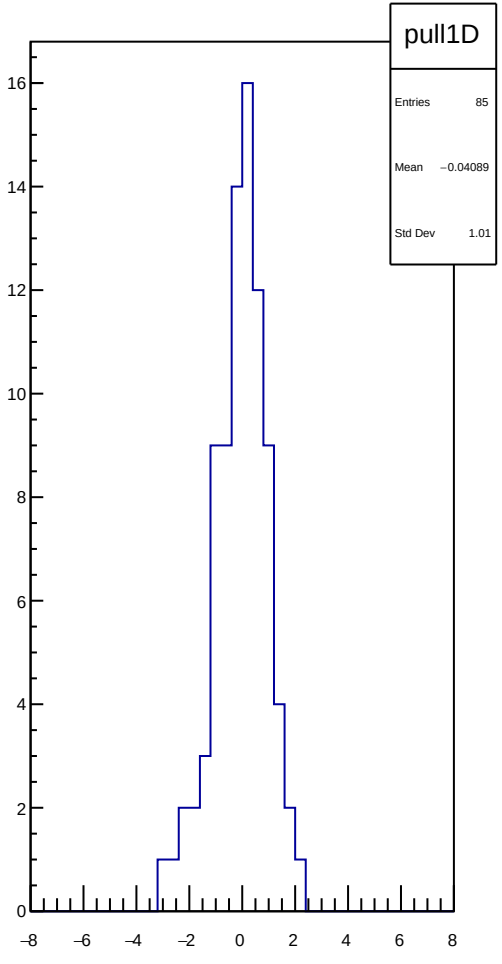

pull1D
Entries 85
Mean 0.008642
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

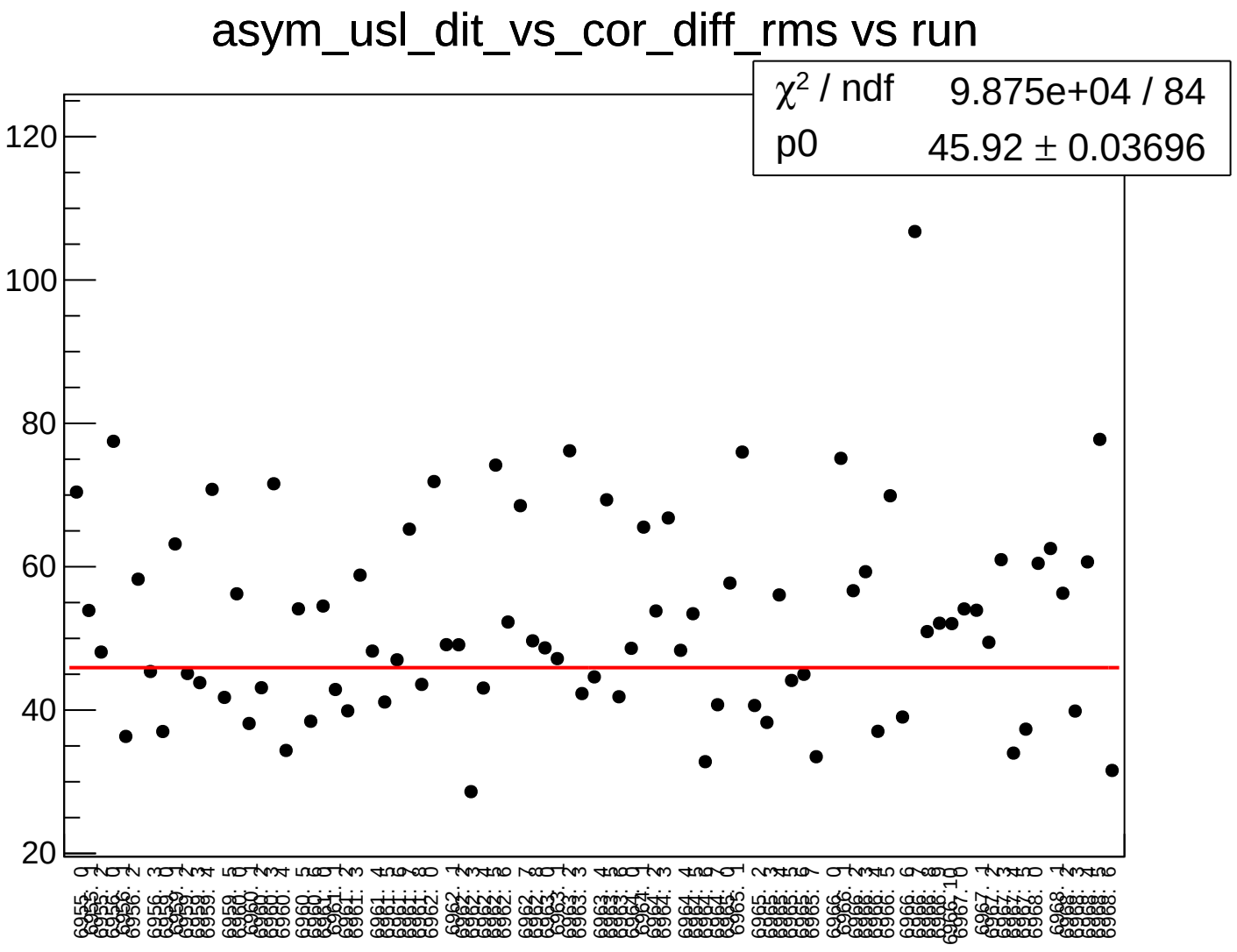

asym_usl_rms vs run
χ² / ndf 4303 / 84
p0 2076 ± 1.622
2500
2400
2300
2200
2100
2000
1900

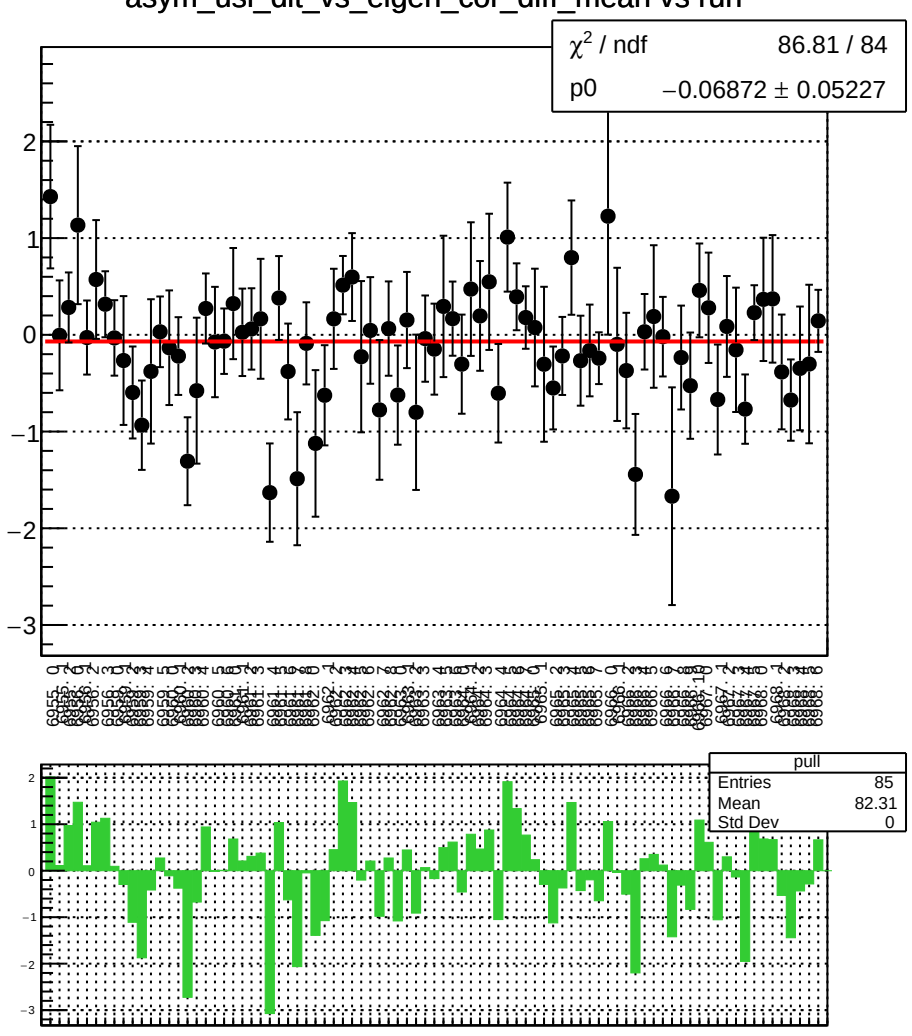

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.16 / 84
p0 3.113e−14 ± 4.815e−14
pull
Entries 85
Mean −48.05
Std Dev 0
pull1D
Entries 85
Mean 0.01537
Std Dev 0.8821

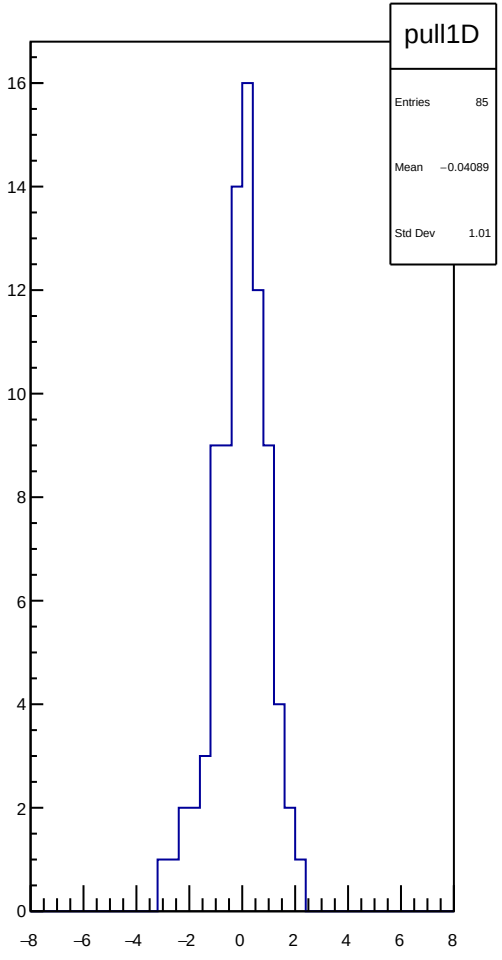

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.583e+05 / 84
p0 3.705e−11 ± 3.405e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

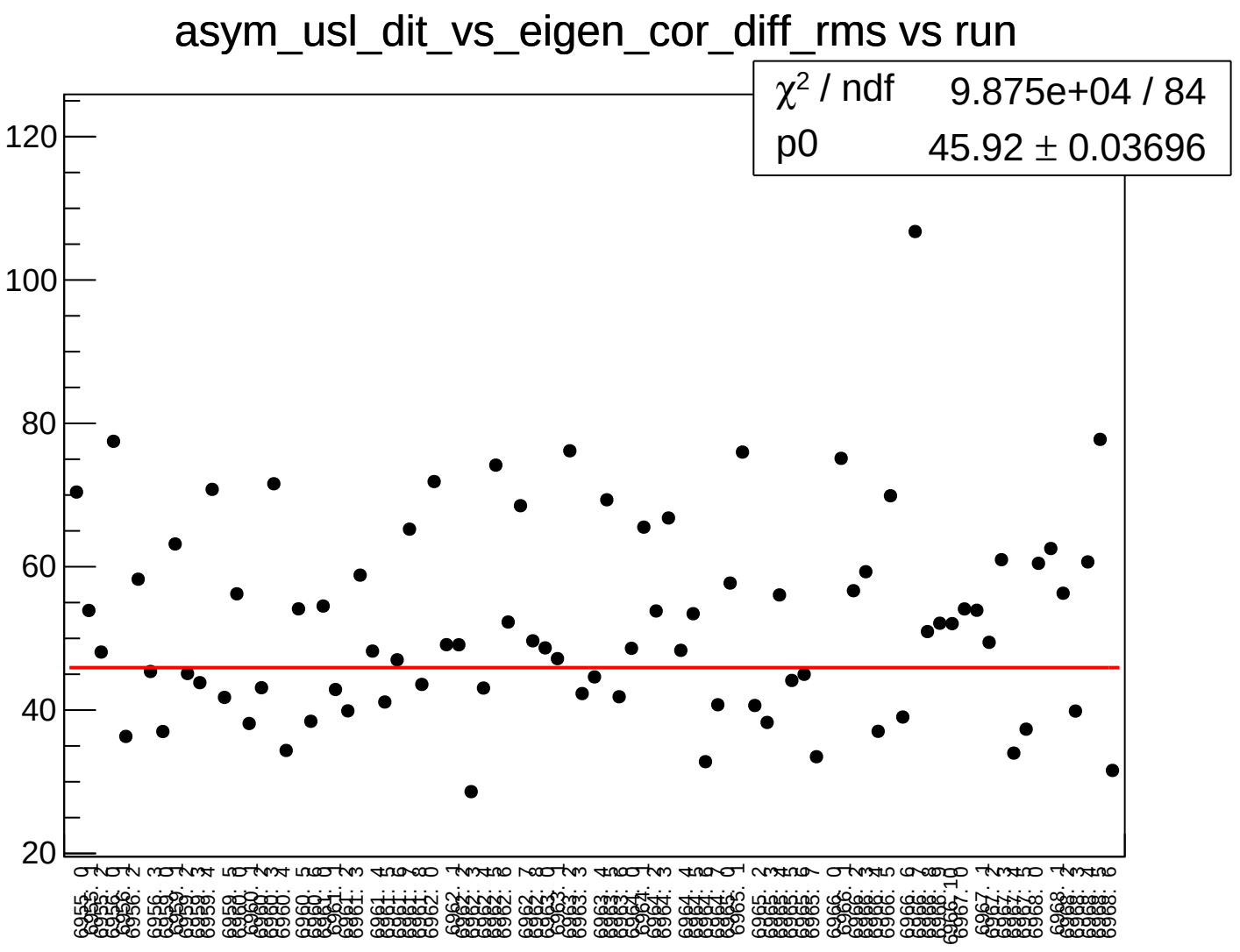

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 86.81 / 84
p0 −0.06872 ± 0.05227
pull
Entries 85
Mean 82.31
Std Dev 0

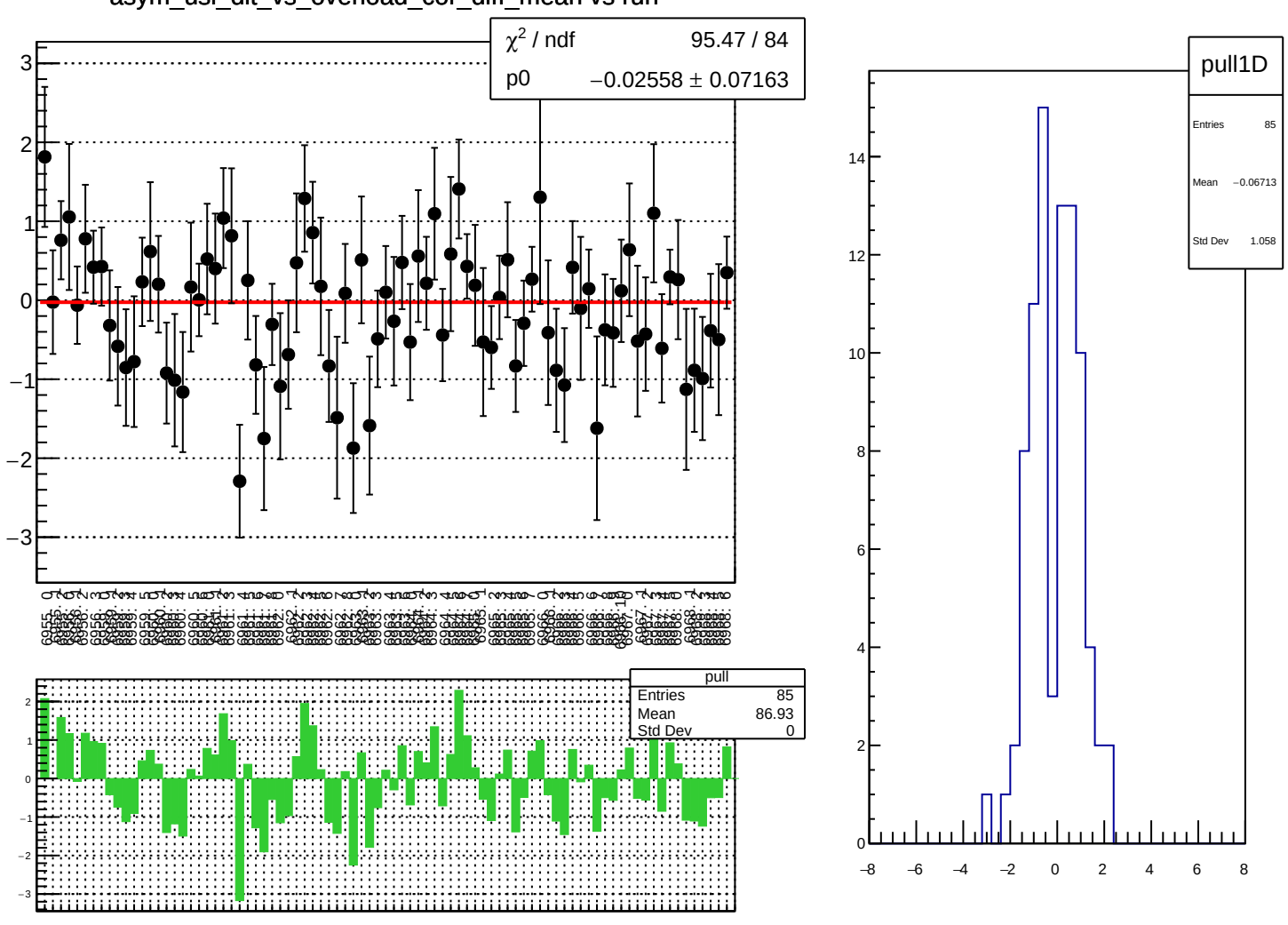

pull1D
Entries 85
Mean −0.04089
Std Dev 1.01

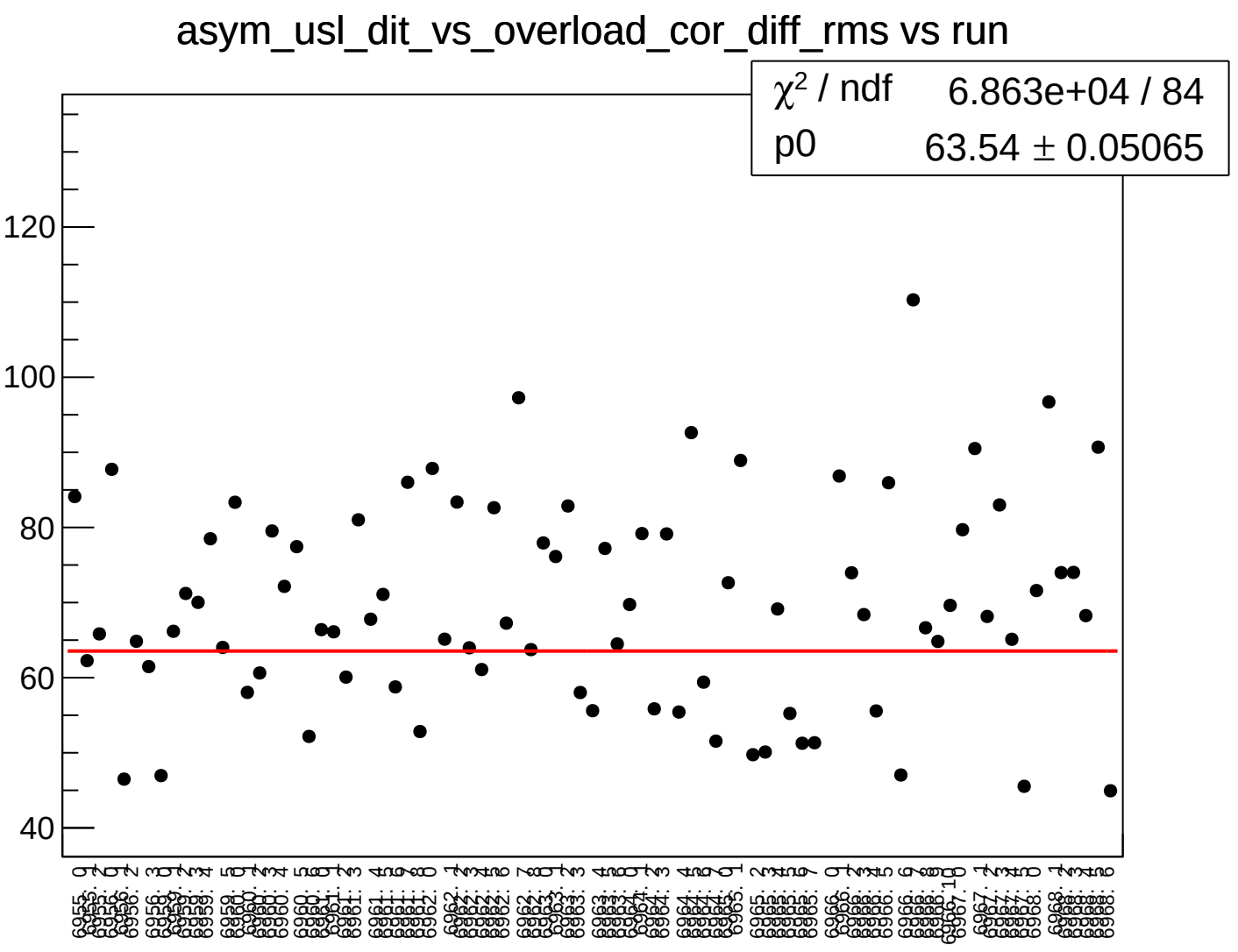

asym_usl_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 9.875e+04 / 84
p0 45.92 ± 0.03696
120
100
80
60
40
20

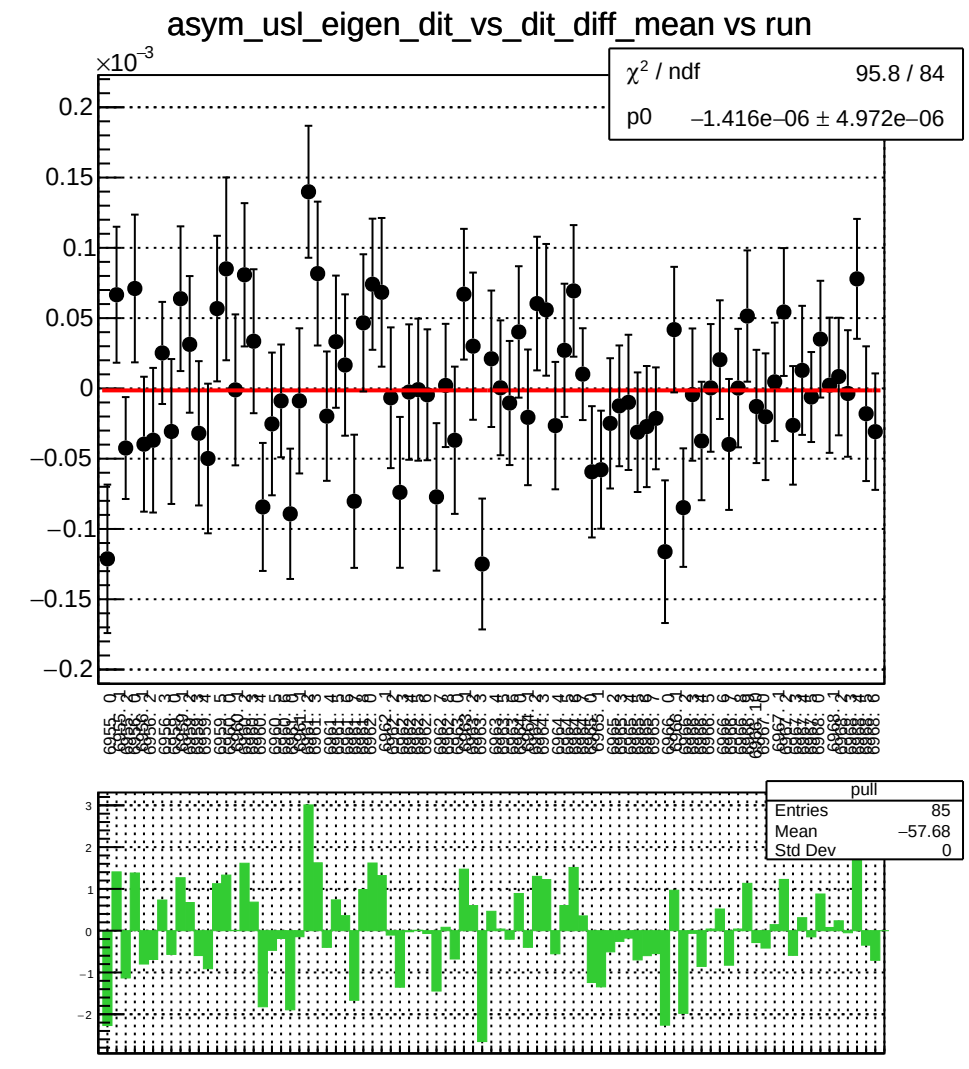

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.81 / 84
p0 −0.06872 ± 0.05227
pull
Entries 85
Mean 82.31
Std Dev 0

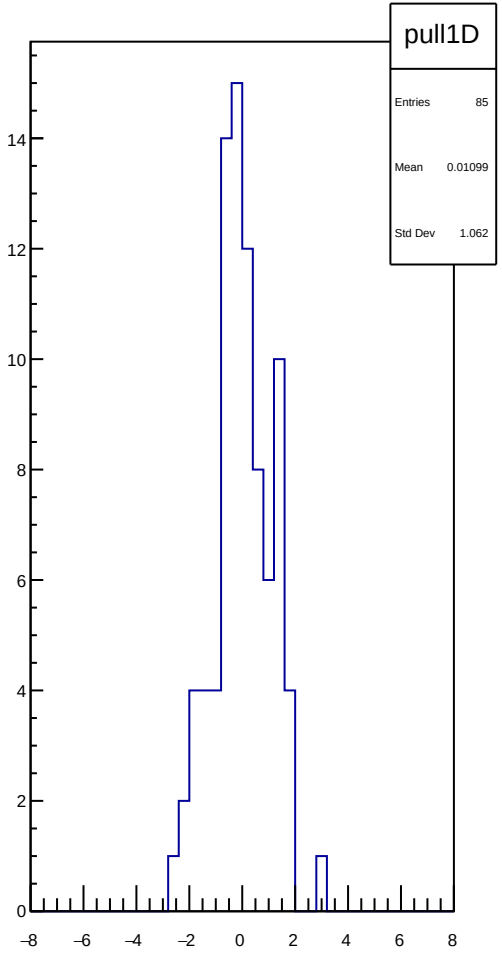

pull1D
Entries 85
Mean −0.04089
Std Dev 1.01

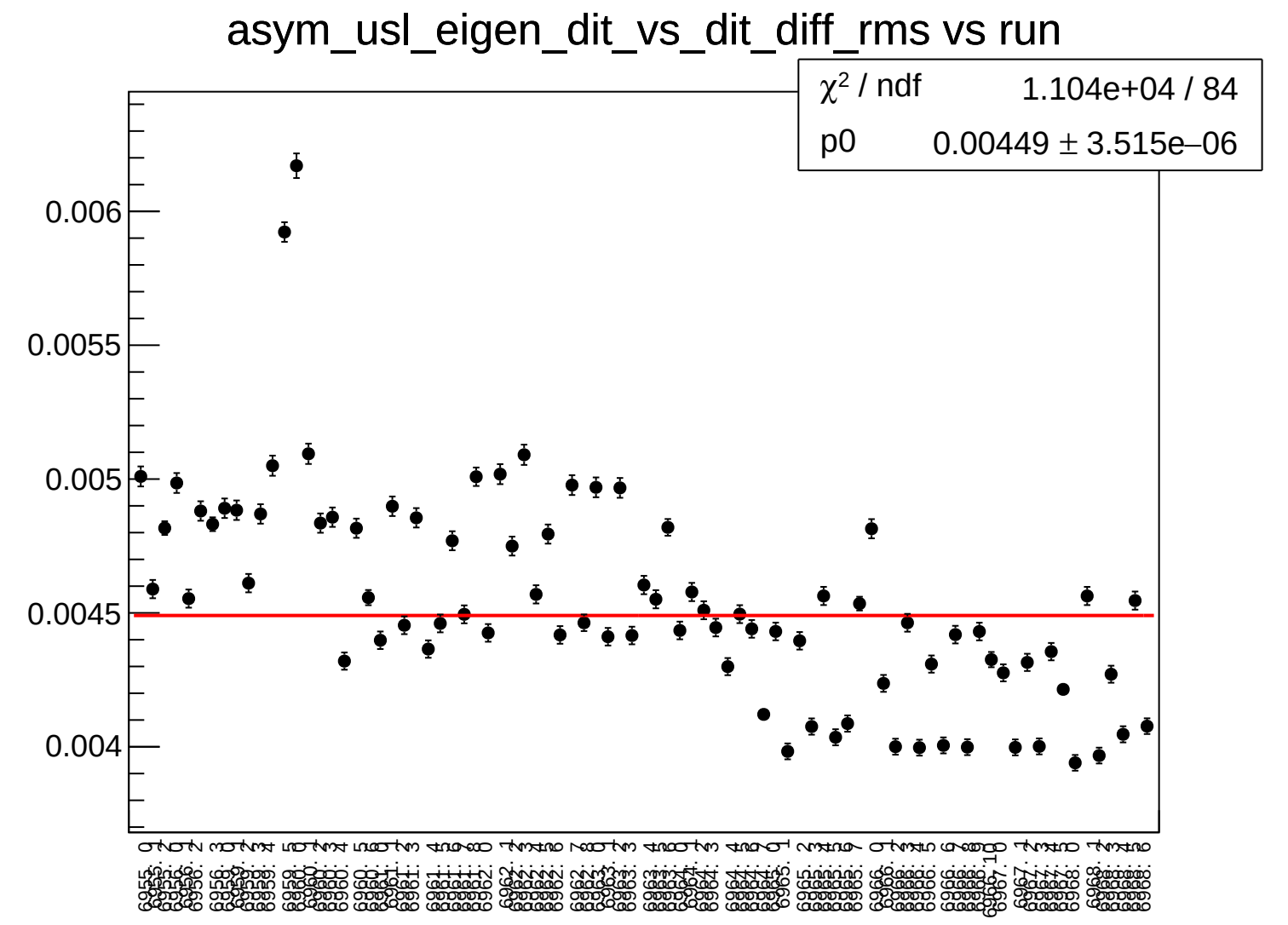

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.875e+04 / 84
p0 45.92 ± 0.03696
120
100
80
60
40
20

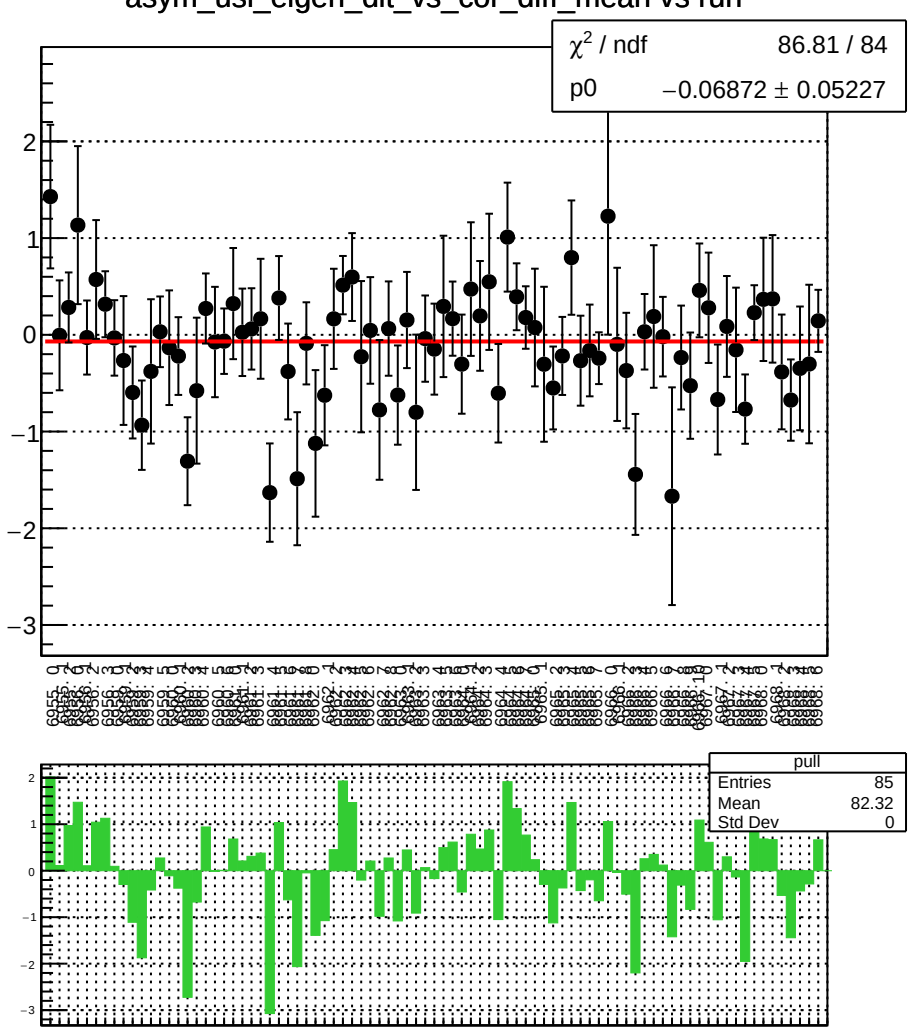

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 95.47 / 84
p0 −0.02558 ± 0.07163
pull
Entries 85
Mean 86.93
Std Dev 0
pull1D
Entries 85
Mean −0.06713
Std Dev 1.058

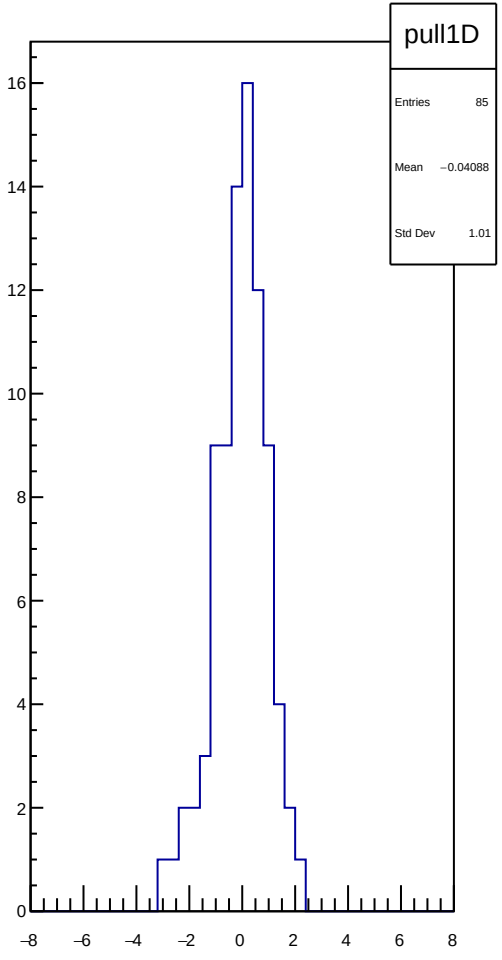

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.863e+04 / 84
p0 63.54 ± 0.05065
120
100
80
60
40

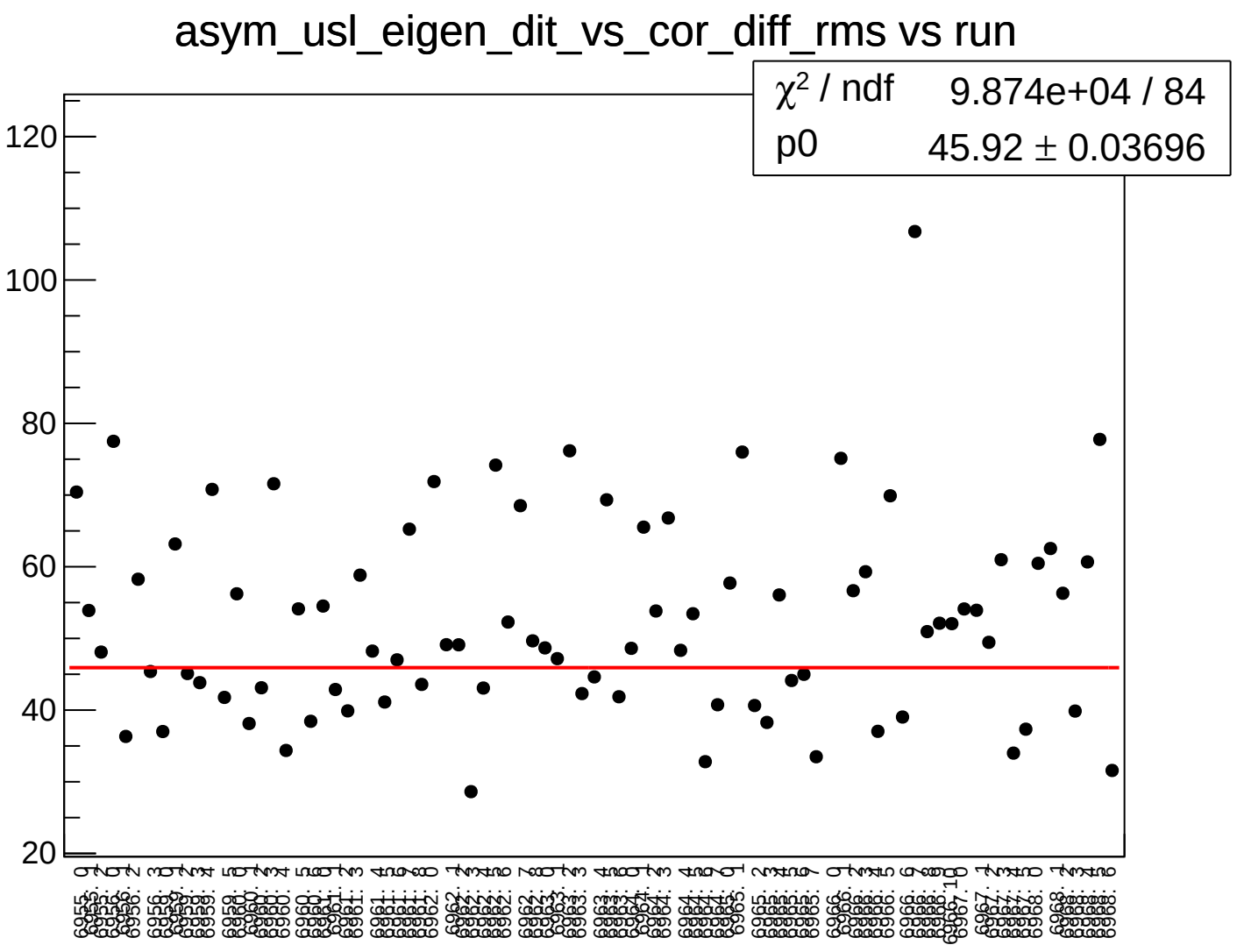

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.8 / 84
p0 −1.416e−06 ± 4.972e−06
pull
Entries 85
Mean −57.68
Std Dev 0

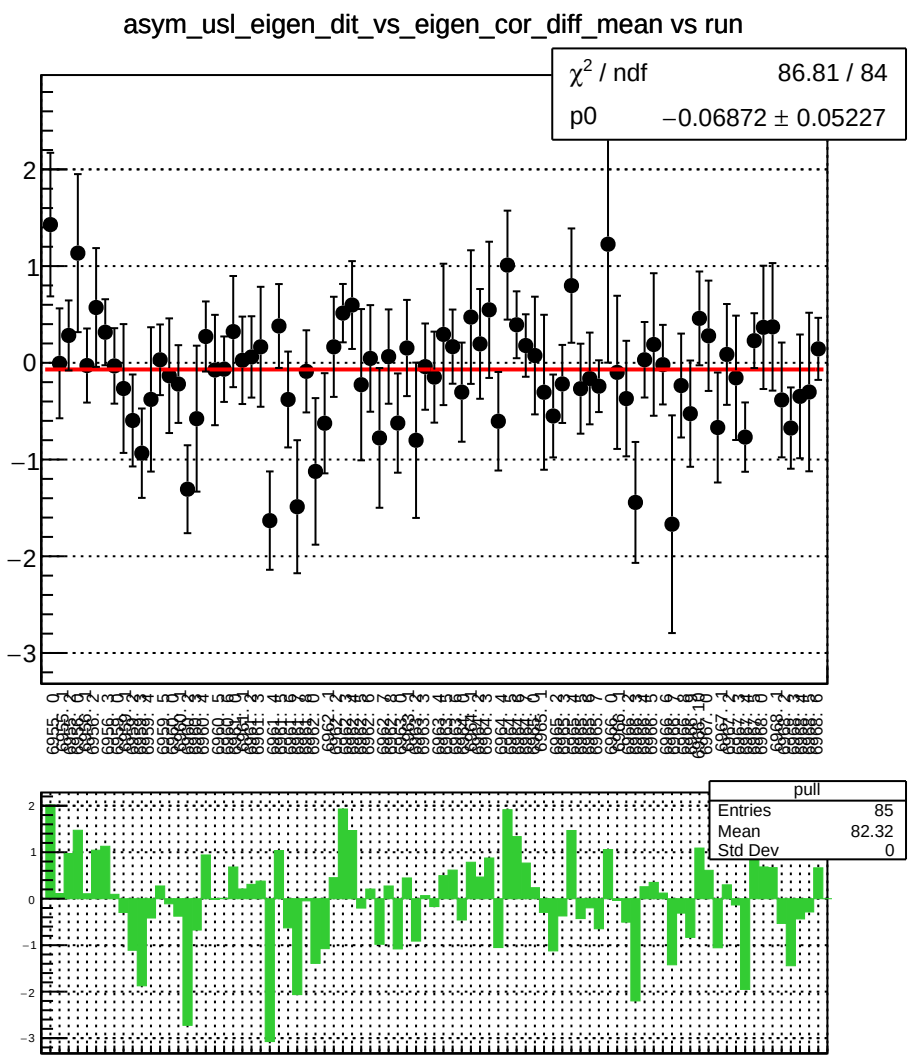

pull1D
Entries 85
Mean 0.01099
Std Dev 1.062

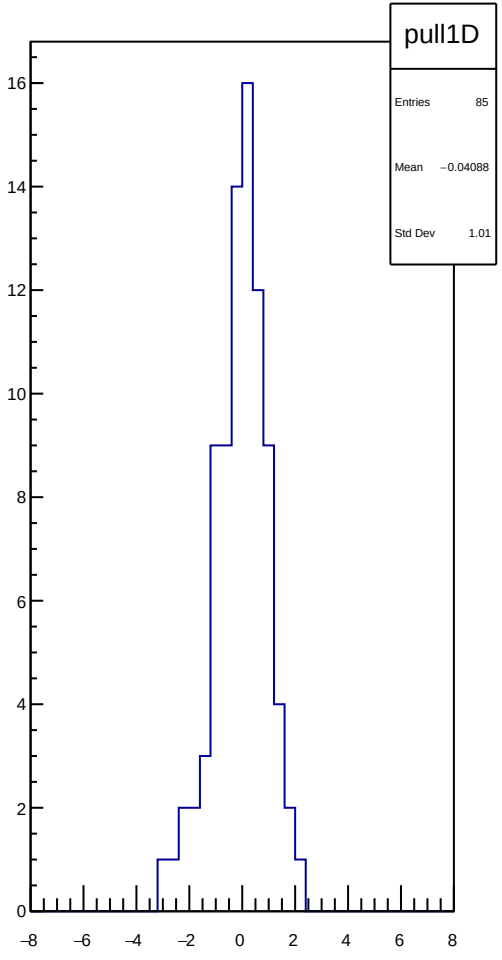

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.104e+04 / 84
p0 0.00449 ± 3.515e−06
0.006
0.0055
0.005
0.0045
0.004

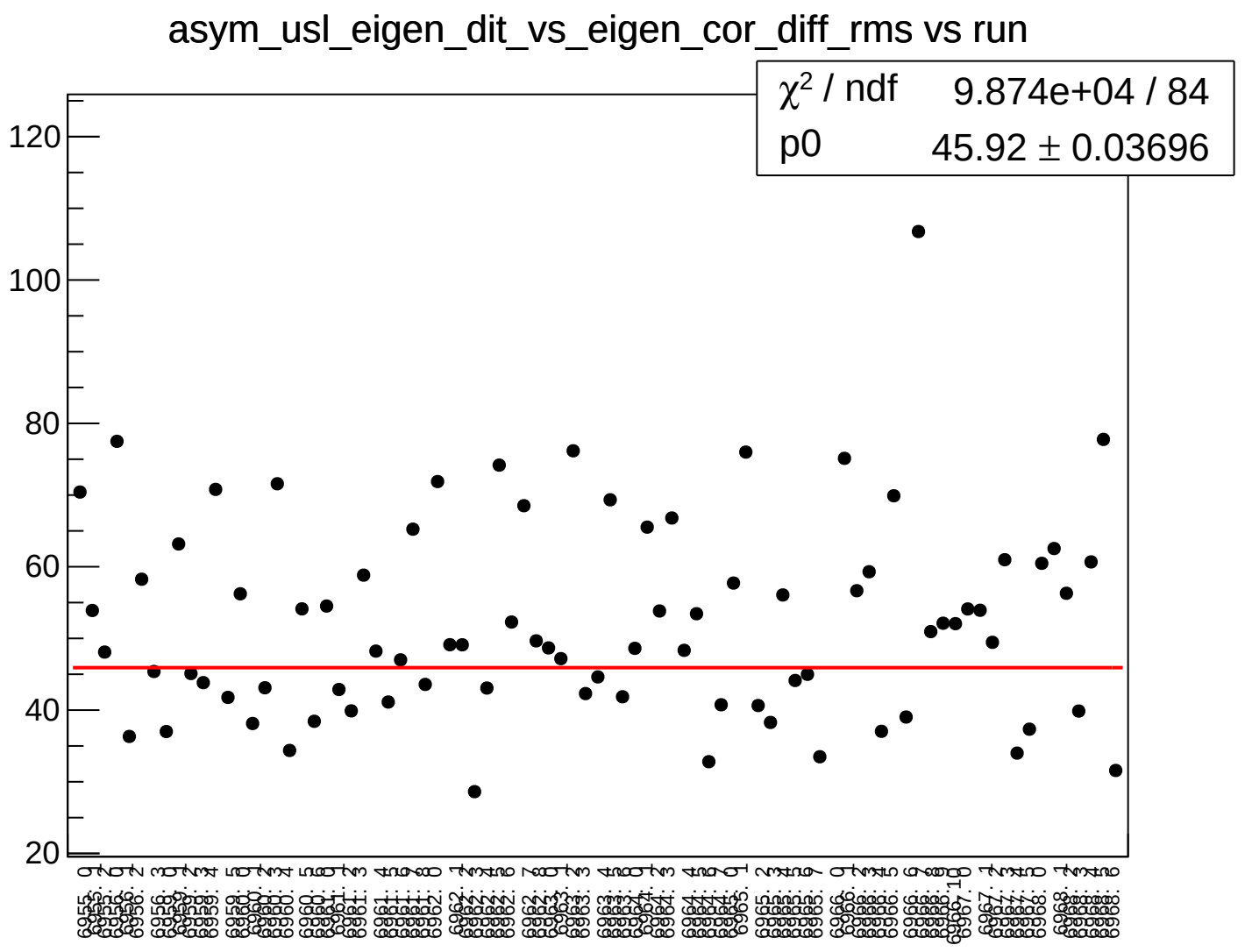

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.81 / 84
p0 −0.06872 ± 0.05227
pull
Entries 85
Mean 82.32
Std Dev 0

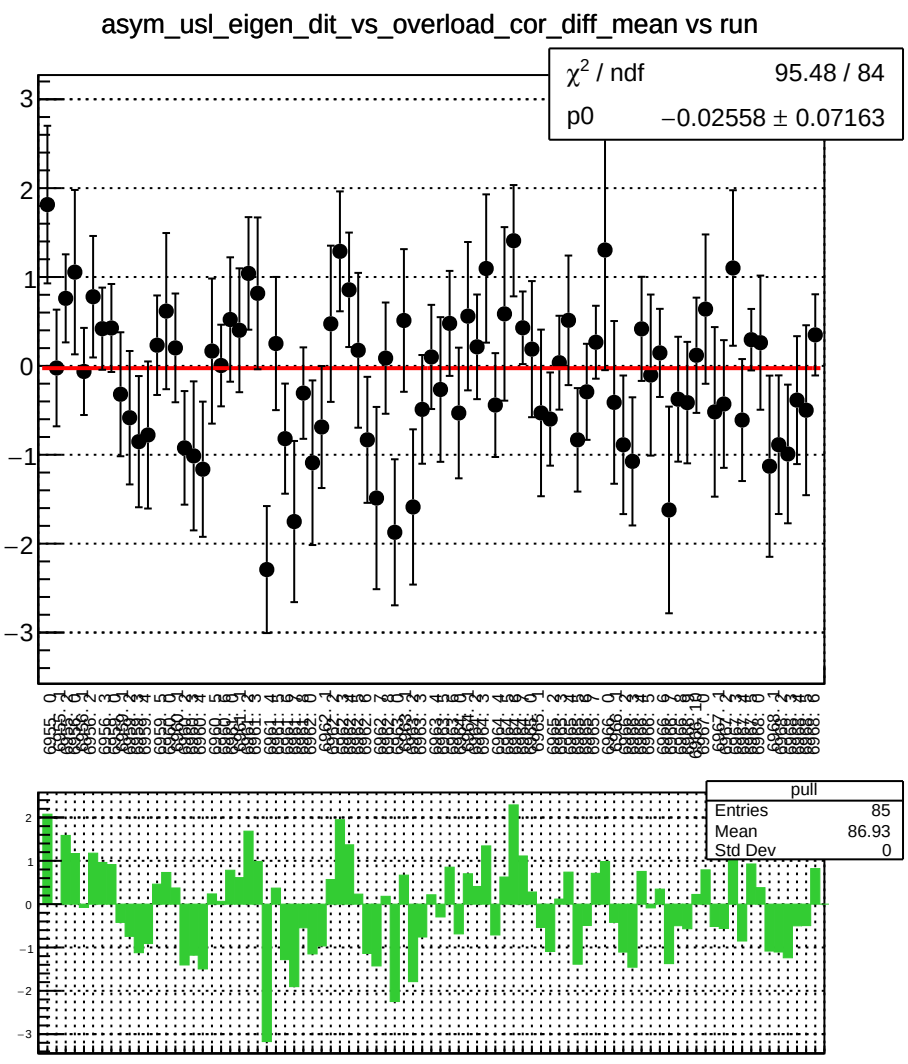

pull1D
Entries 85
Mean −0.04088
Std Dev 1.01

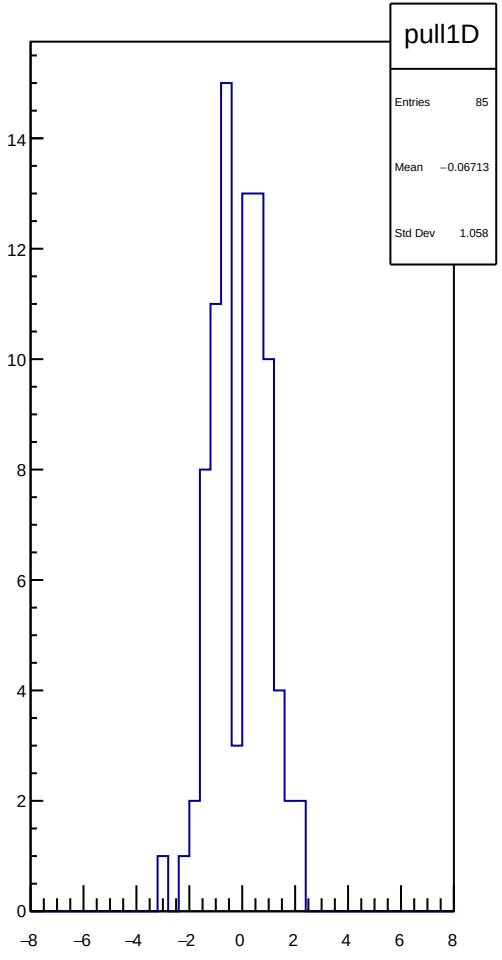

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.874e+04 / 84
p0 45.92 ± 0.03696
120
100
80
60
40
20

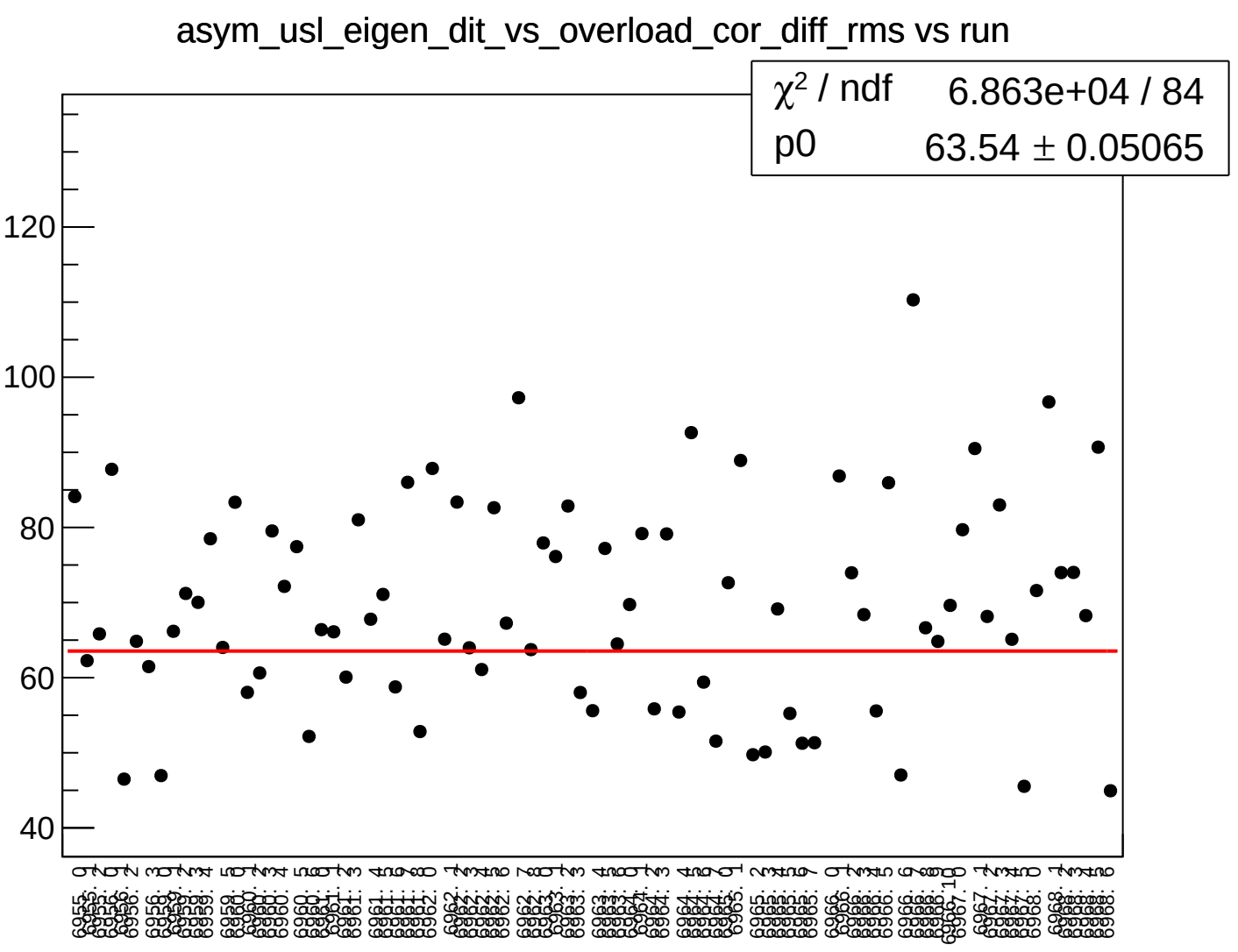

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.81 / 84
p0 −0.06872 ± 0.05227
pull
Entries 85
Mean 82.32
Std Dev 0

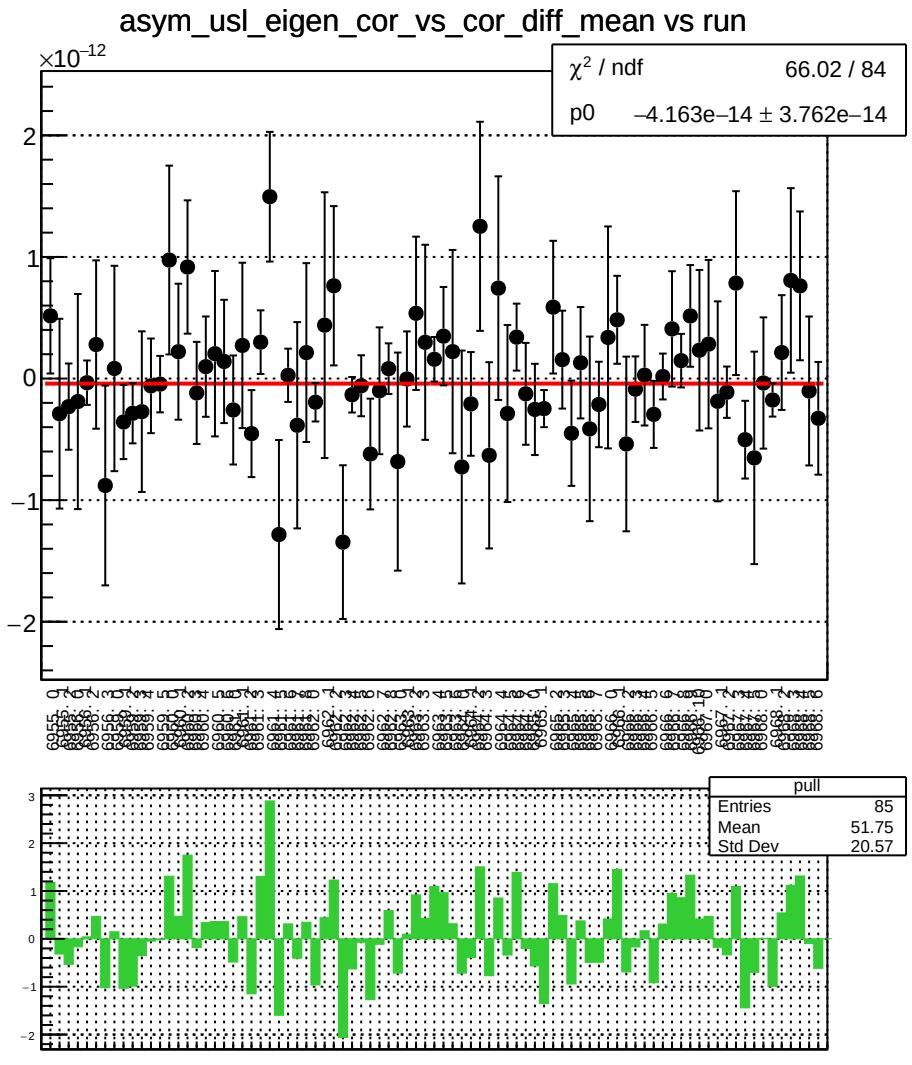

pull1D
Entries 85
Mean −0.04088
Std Dev 1.01

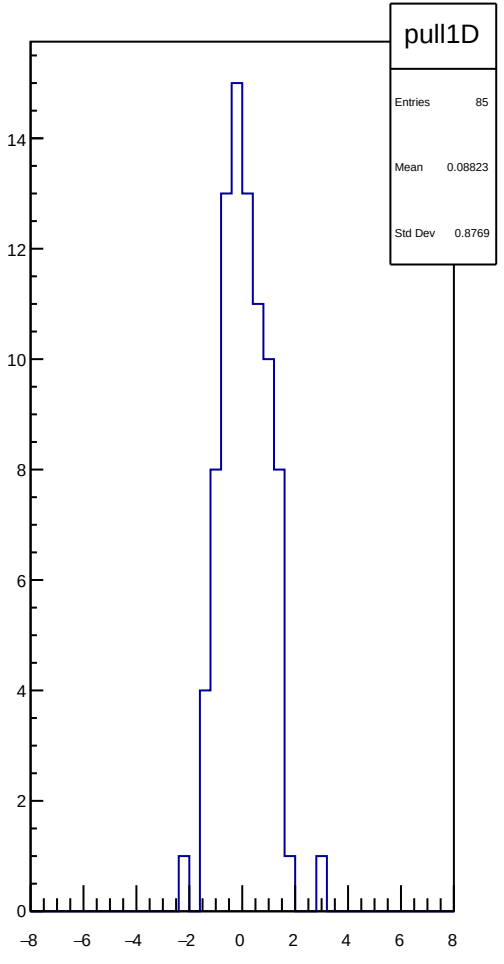

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.874e+04 / 84
p0 45.92 ± 0.03696
120
100
80
60
40
20

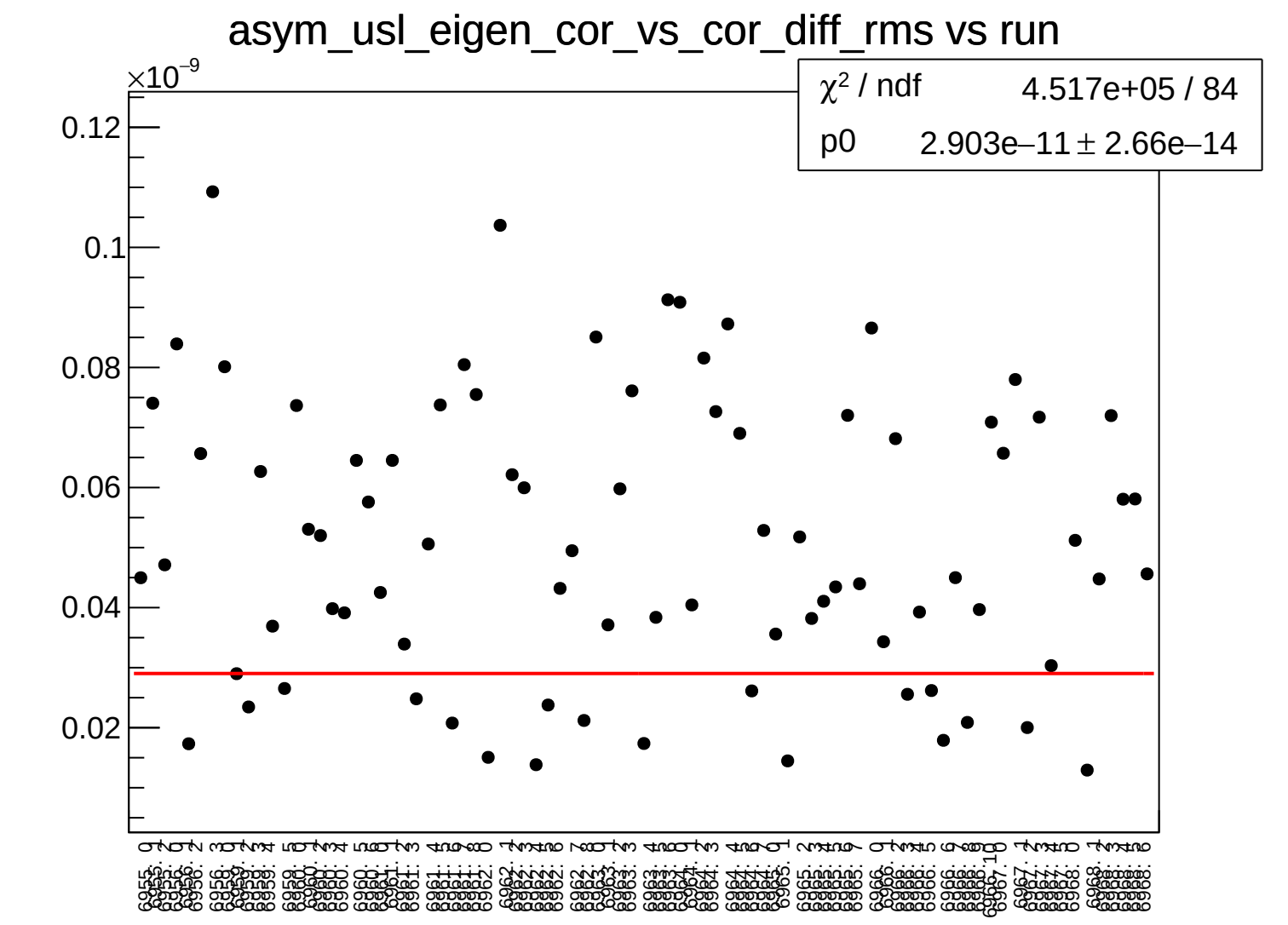

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 95.48 / 84
p0 −0.02558 ± 0.07163
pull
Entries 85
Mean 86.93
Std Dev 0

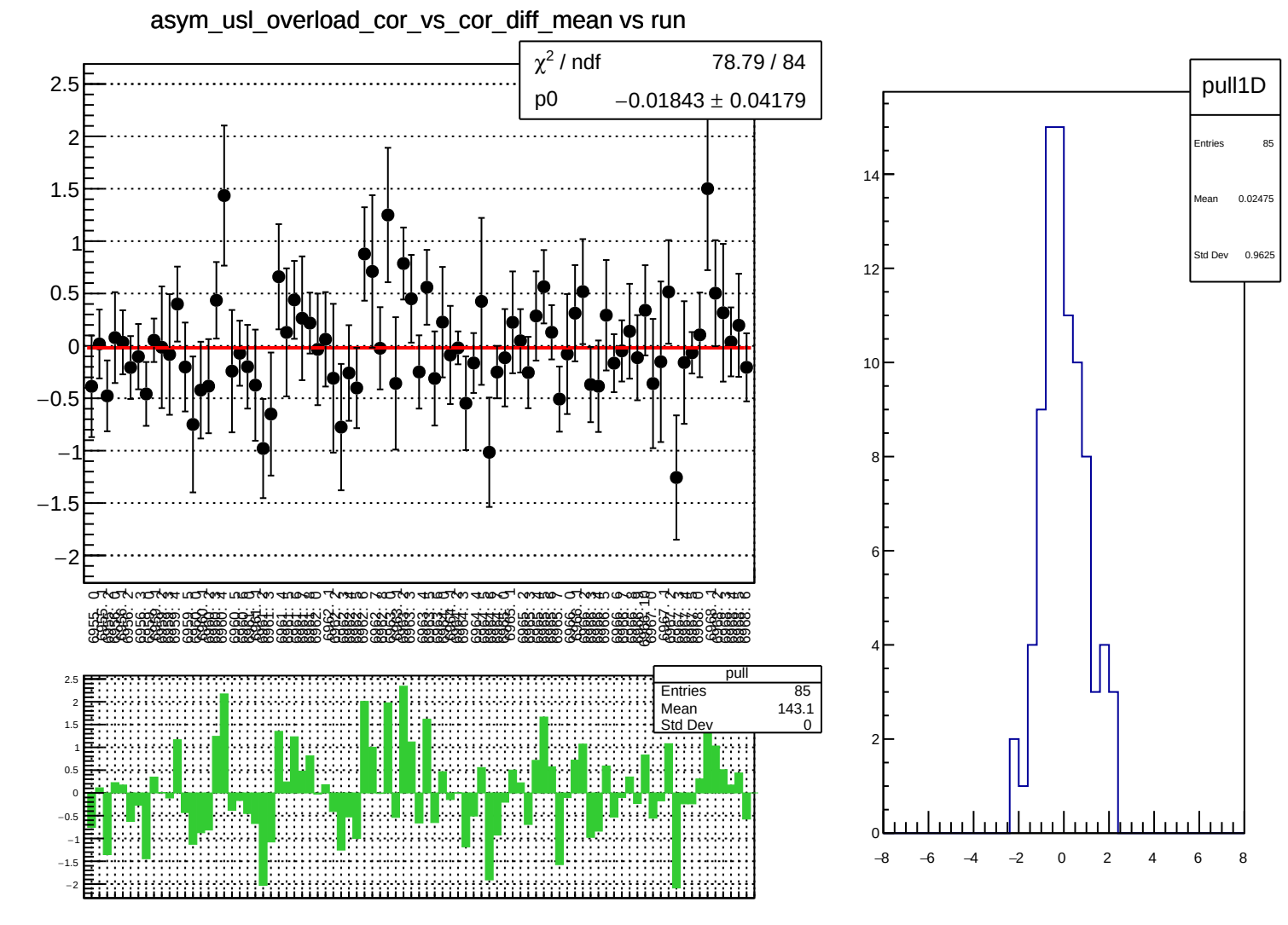

pull1D
Entries 85
Mean −0.06713
Std Dev 1.058

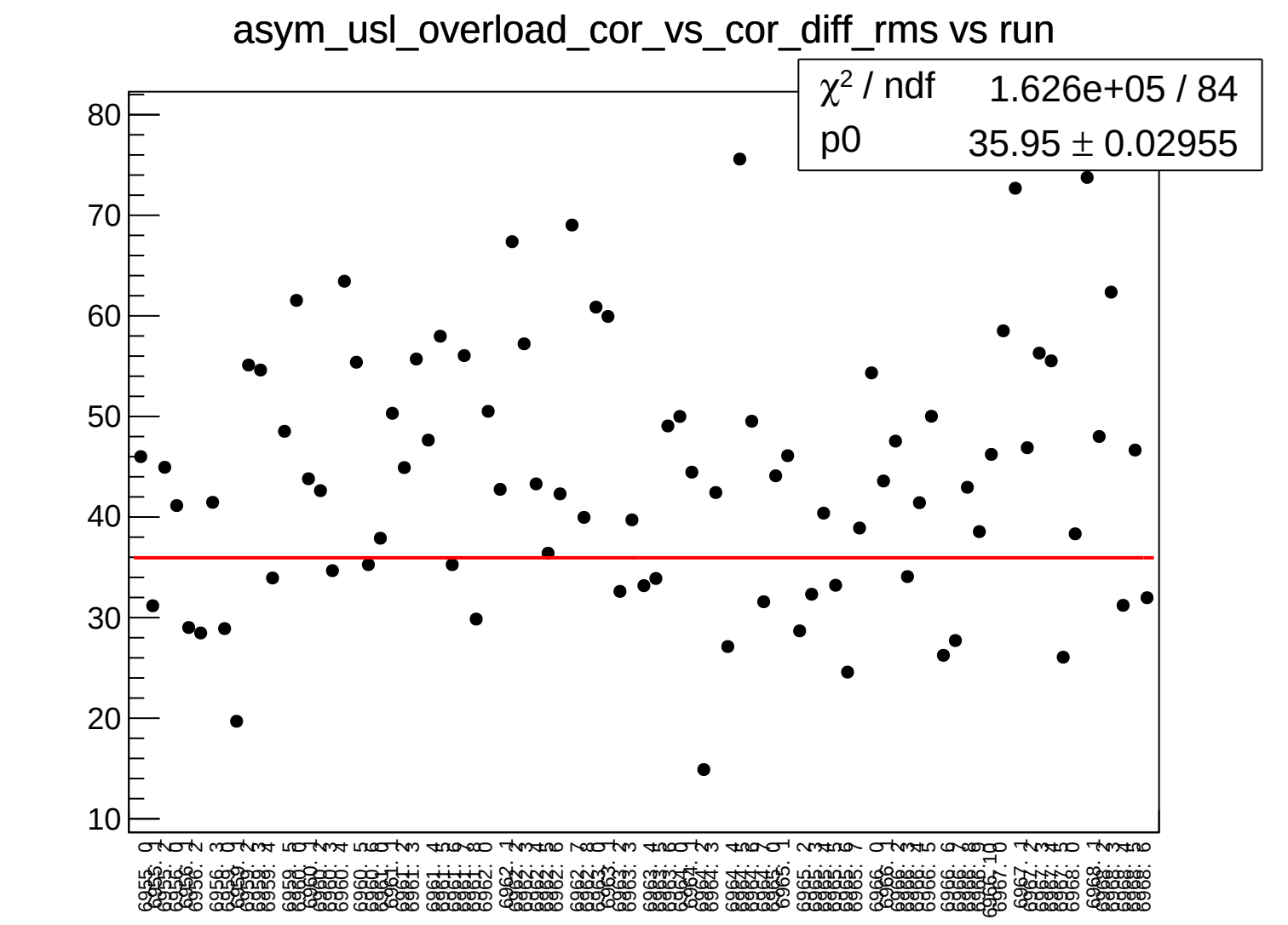

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.863e+04 / 84
p0 63.54 ± 0.05065
120
100
80
60
40

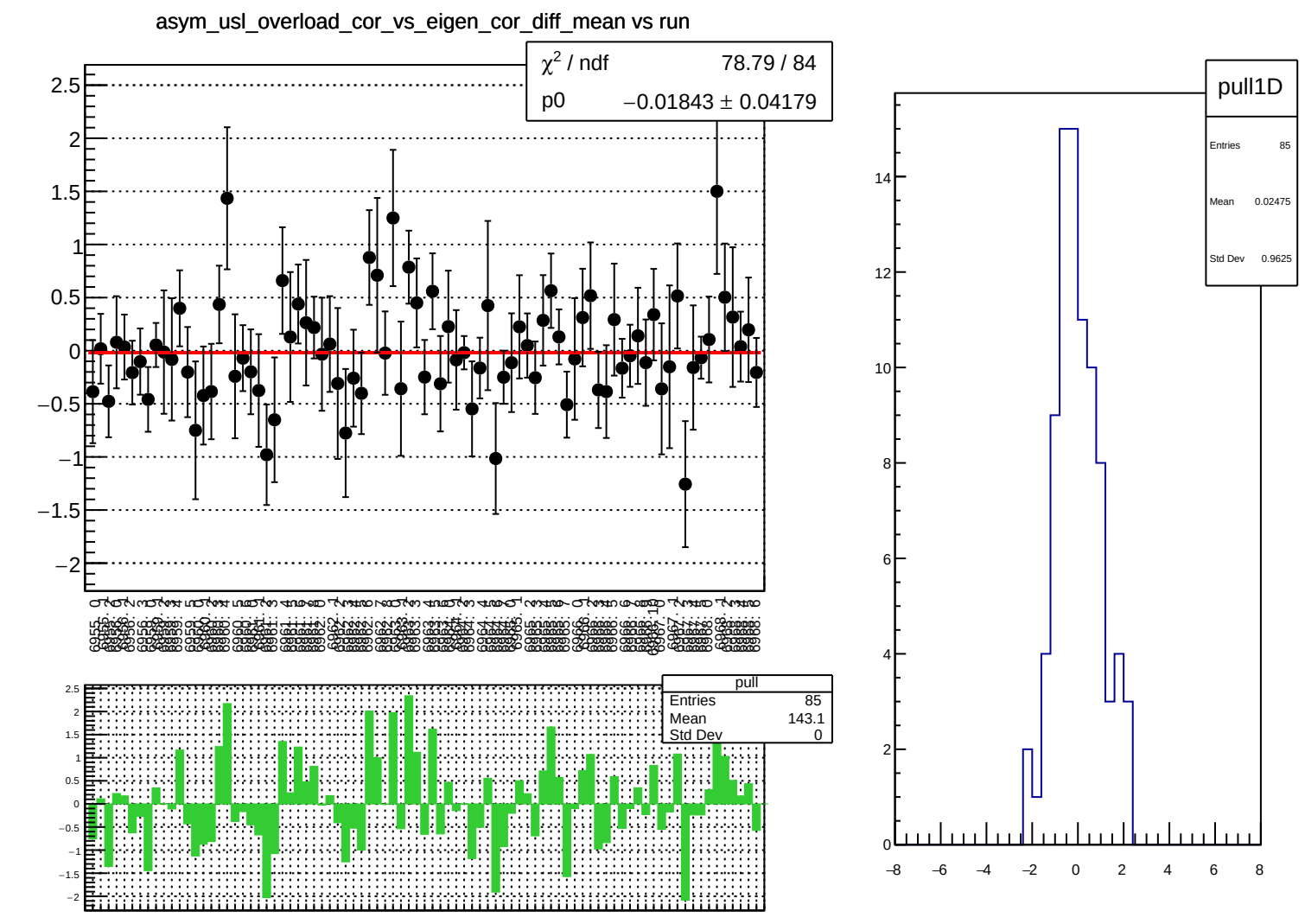

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.02 / 84
p0 −4.163e−14 ± 3.762e−14
pull
Entries 85
Mean 51.75
Std Dev 20.57

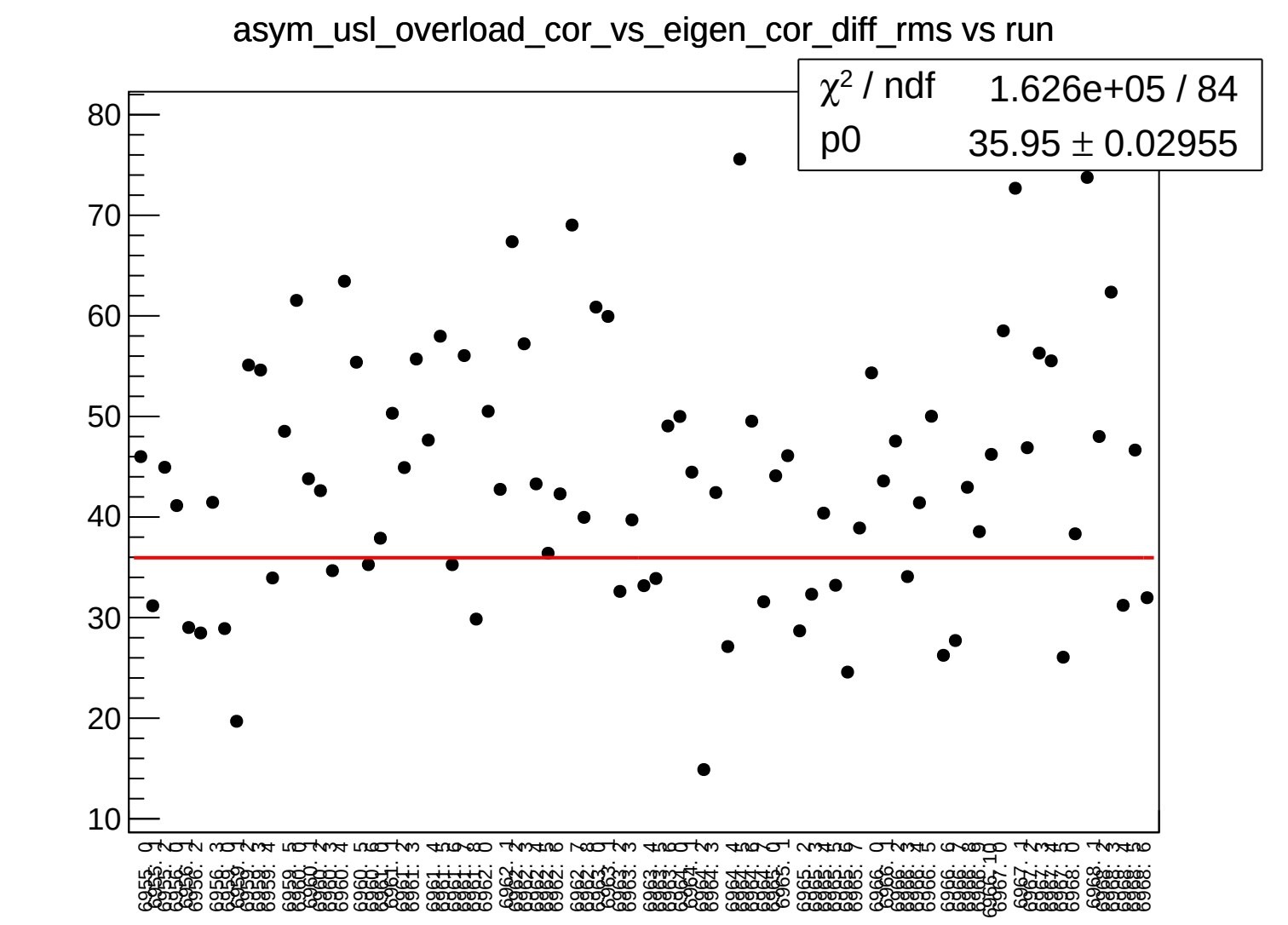

pull1D
Entries 85
Mean 0.08823
Std Dev 0.8769

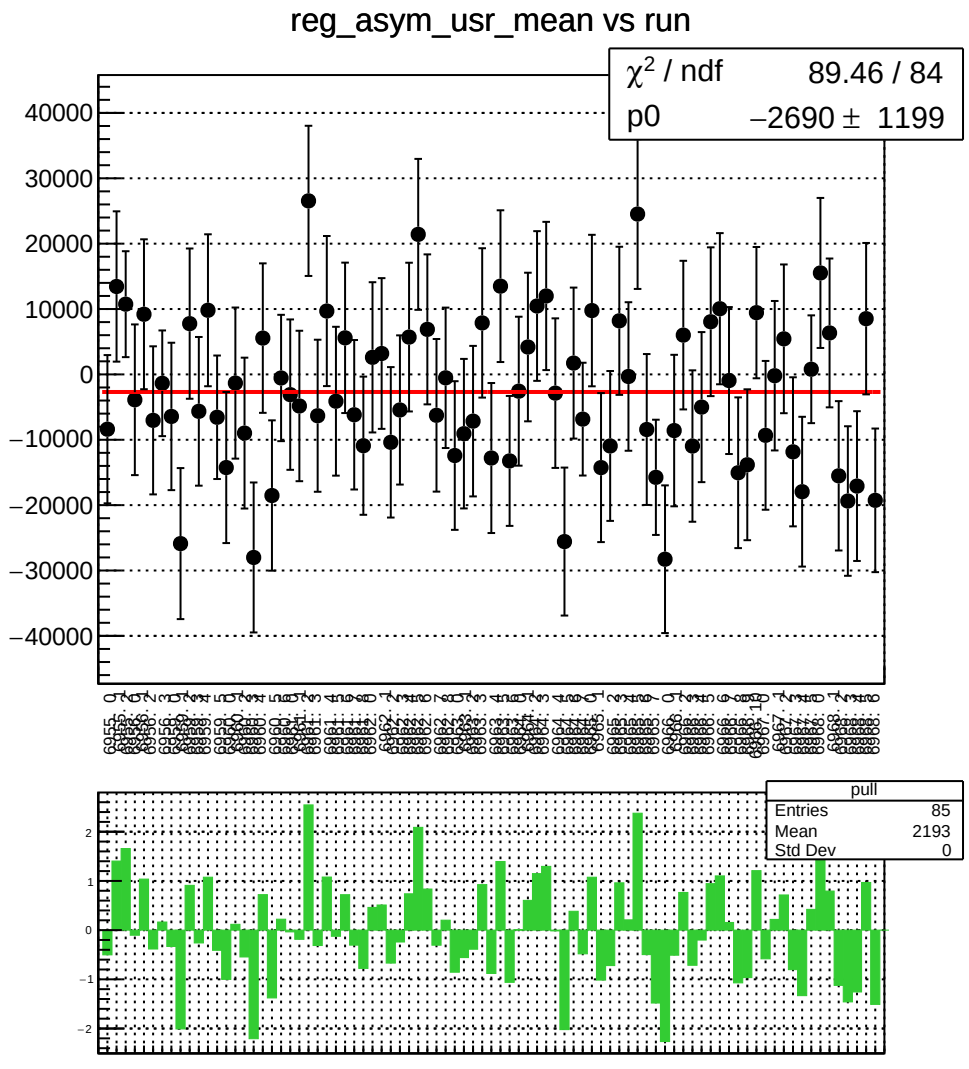

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.517e+05 / 84
p0 2.903e−11 ± 2.66e−14
0.12
0.1
0.08
0.06
0.04
0.02

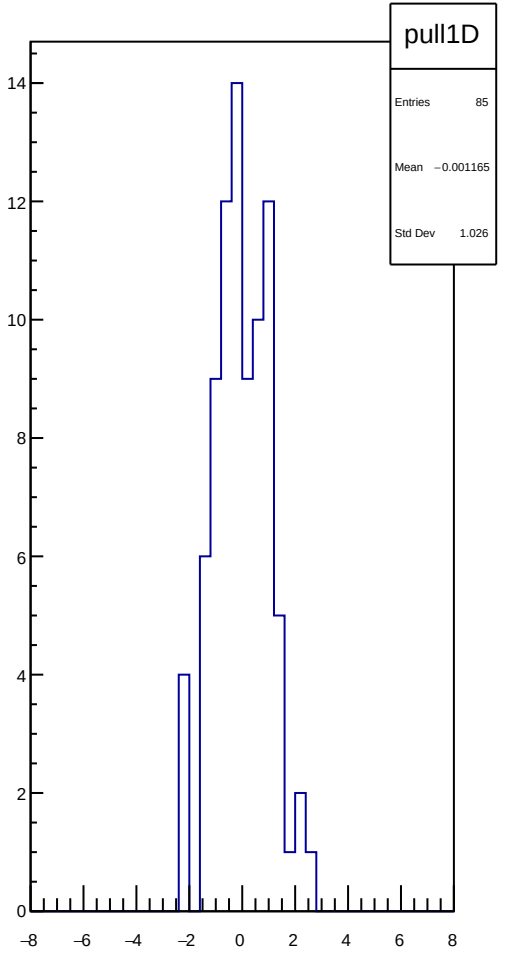

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 78.79 / 84
p0 −0.01843 ± 0.04179
pull
Entries 85
Mean 143.1
Std Dev 0
pull1D
Entries 85
Mean 0.02475
Std Dev 0.9625

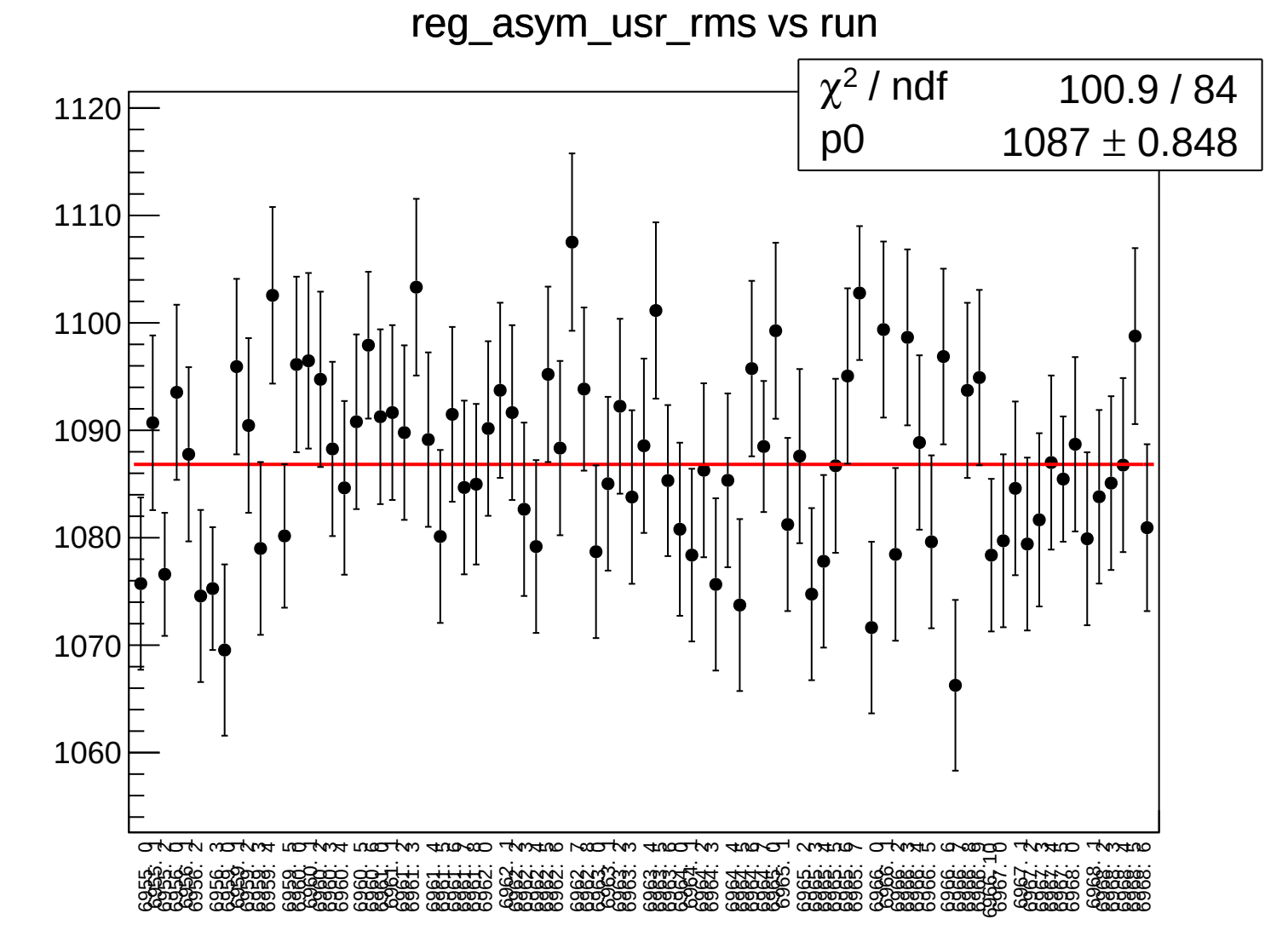

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.626e+05 / 84
p0 35.95 ± 0.02955
80
70
60
50
40
30
20
10

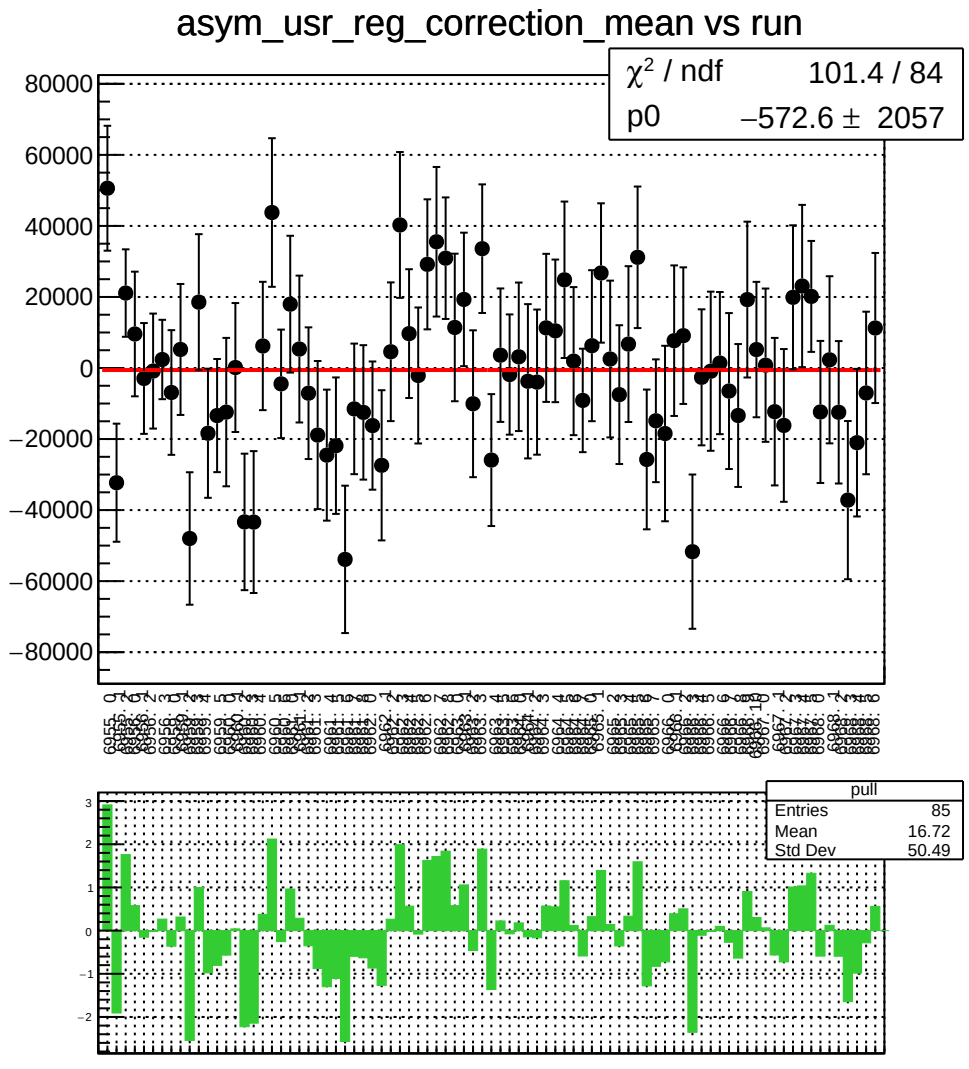

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.79 / 84
p0 −0.01843 ± 0.04179
pull
Entries 85
Mean 143.1
Std Dev 0
pull1D
Entries 85
Mean 0.02475
Std Dev 0.9625

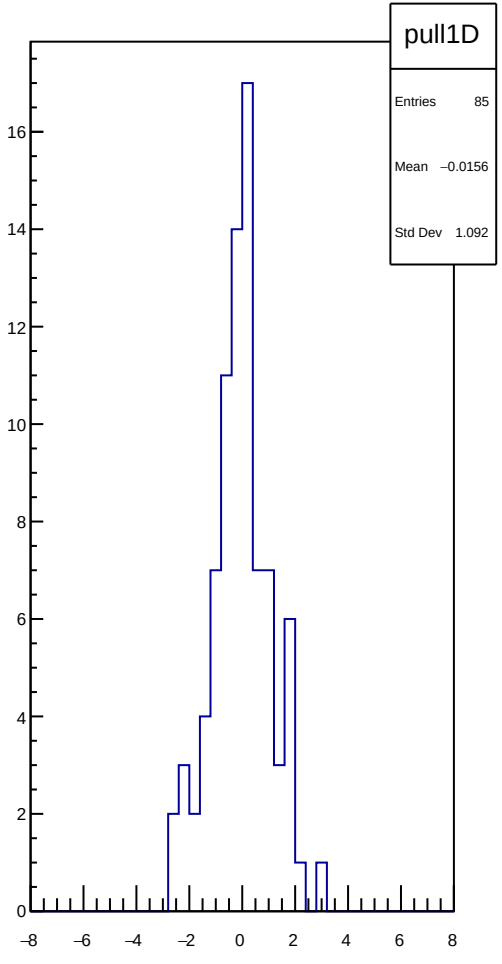

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.626e+05 / 84
p0 35.95 ± 0.02955
80
70
60
50
40
30
20
10

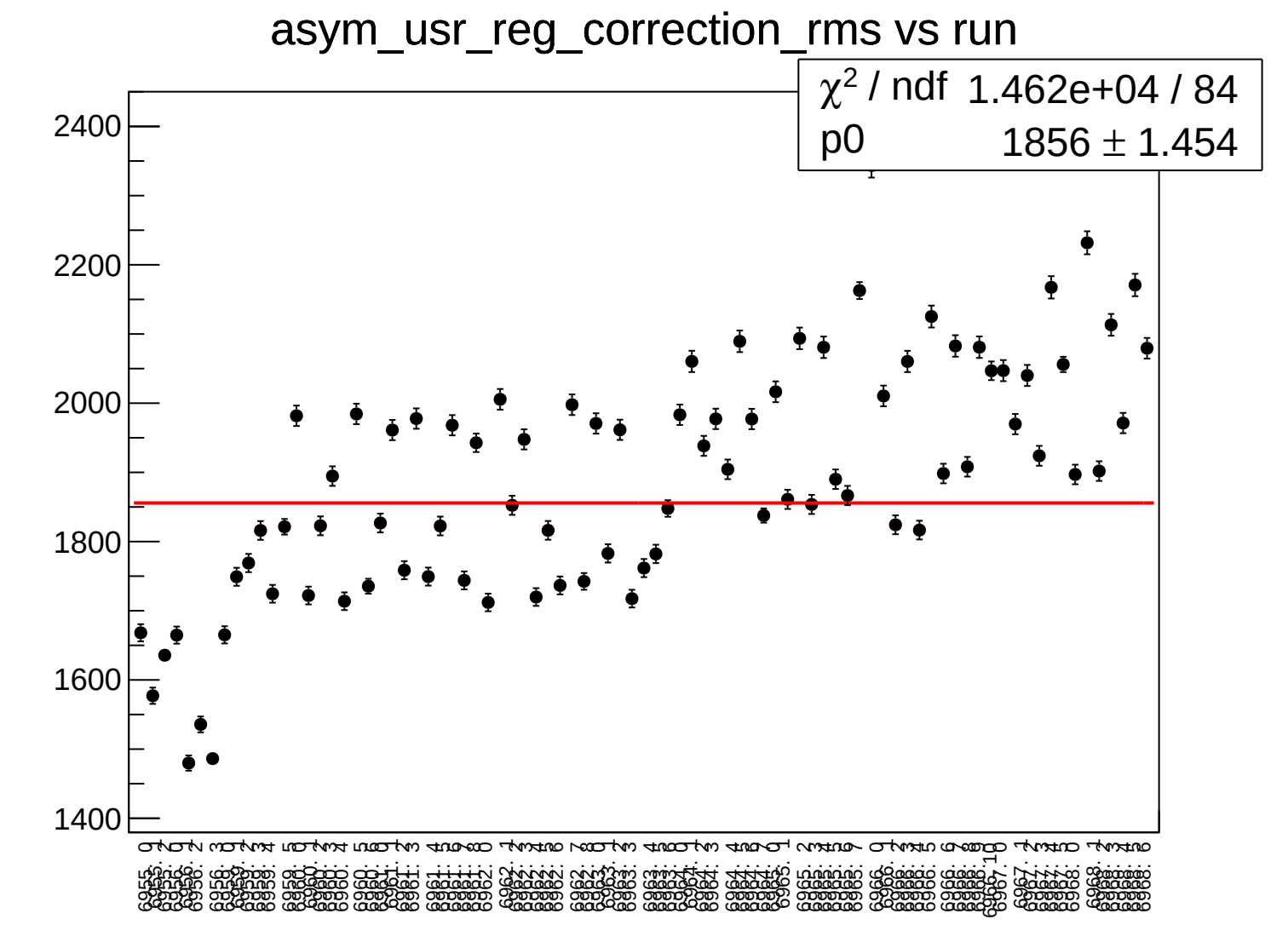

reg_asym_usr_mean vs run
χ² / ndf 89.46 / 84
p0 −2690 ± 1199
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 2193
Std Dev 0
2
1
0
−1
−2

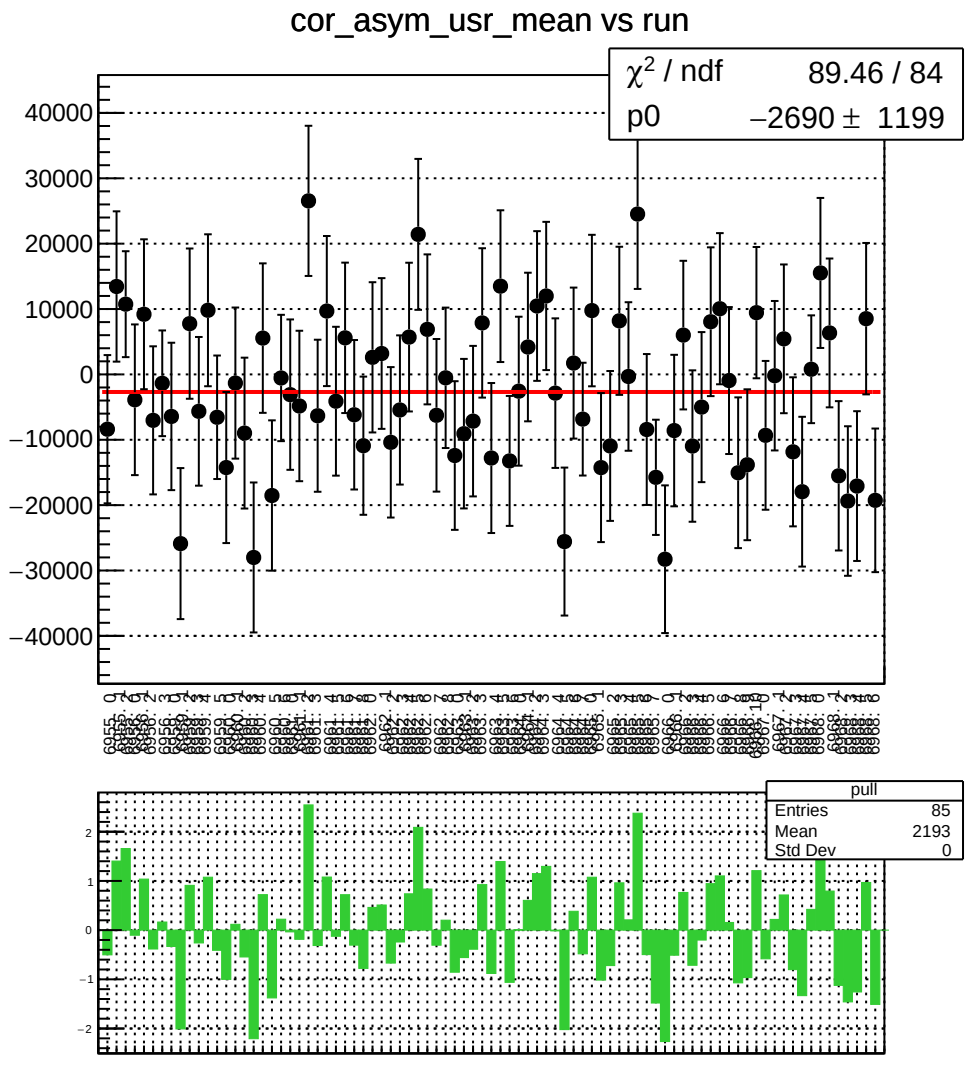

pull1D
Entries 85
Mean −0.001165
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

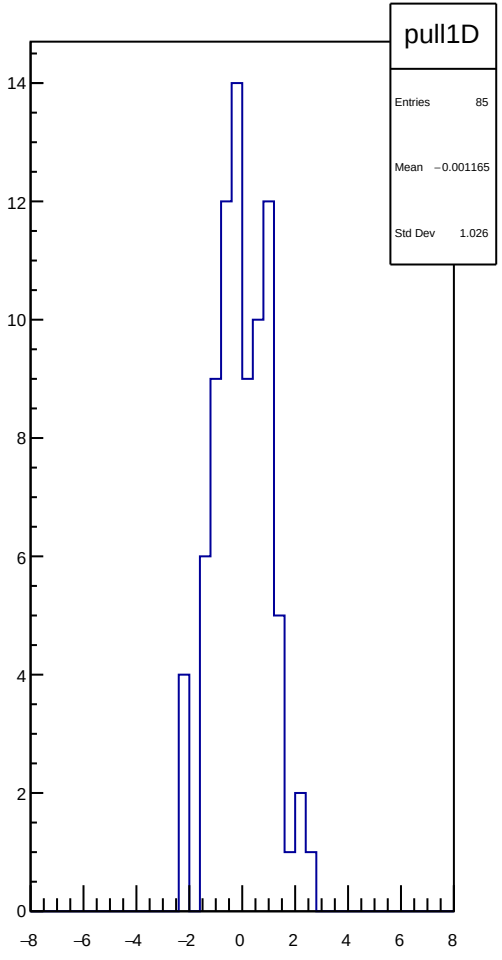

reg_asym_usr_rms vs run
$\chi^2$ / ndf 100.9 / 84
p0 1087 ± 0.848
1120
1110
1100
1090
1080
1070
1060

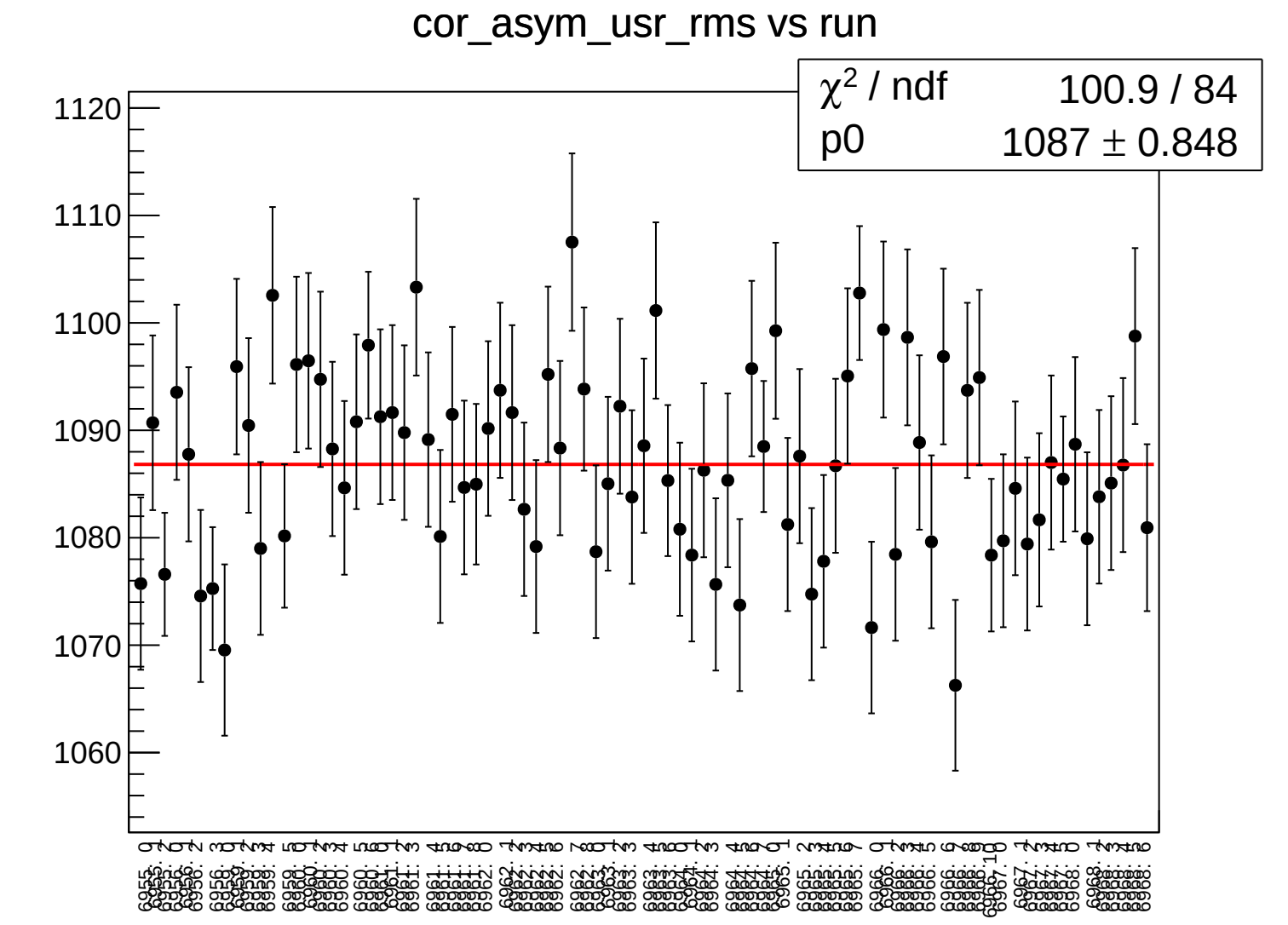

asym_usr_reg_correction_mean vs run
χ² / ndf 101.4 / 84
p0 −572.6 ± 2057
pull
Entries 85
Mean 16.72
Std Dev 50.49

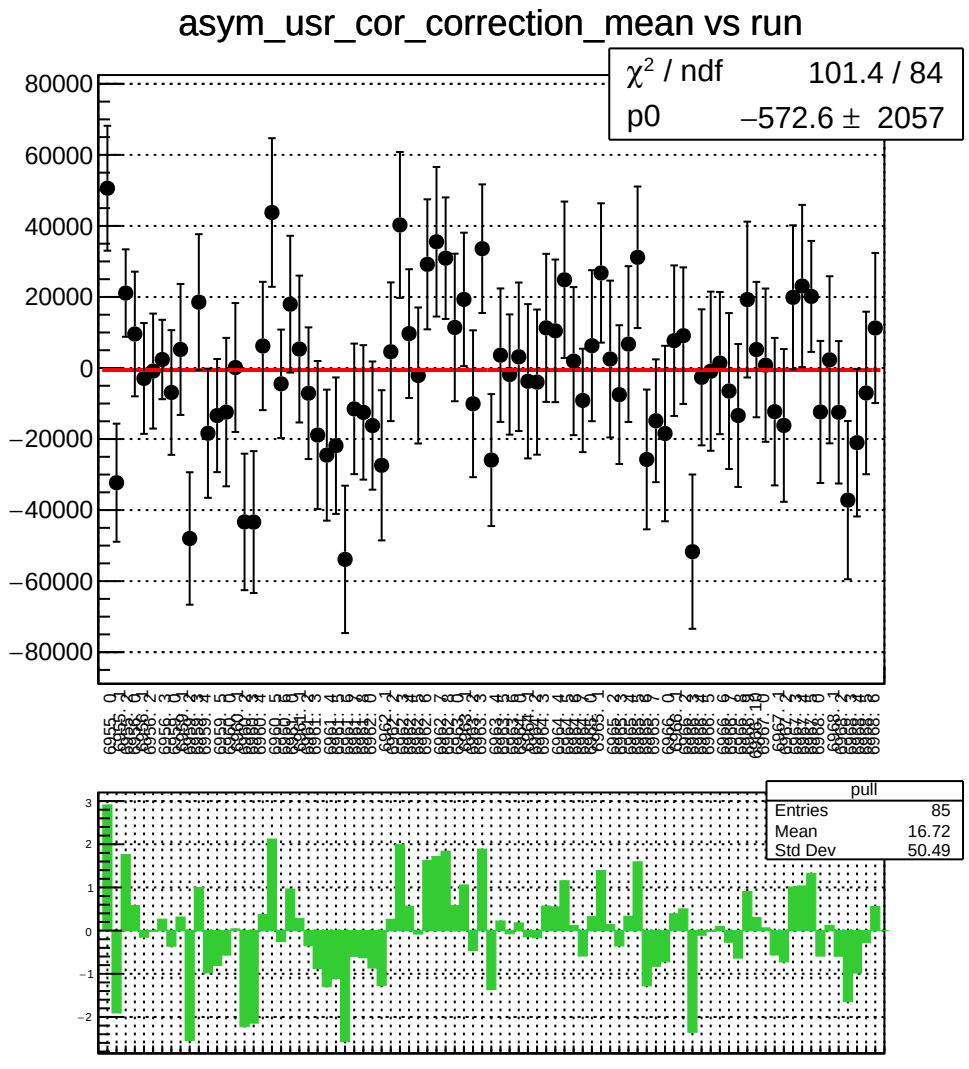

pull1D
Entries 85
Mean −0.0156
Std Dev 1.092

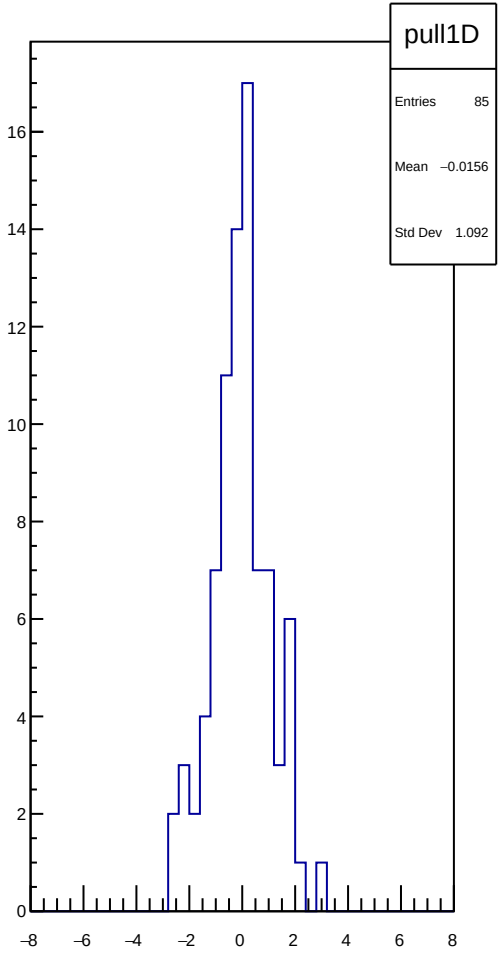

asym_usr_reg_correction_rms vs run
χ² / ndf 1.462e+04 / 84
p0 1856 ± 1.454
2400
2200
2000
1800
1600
1400

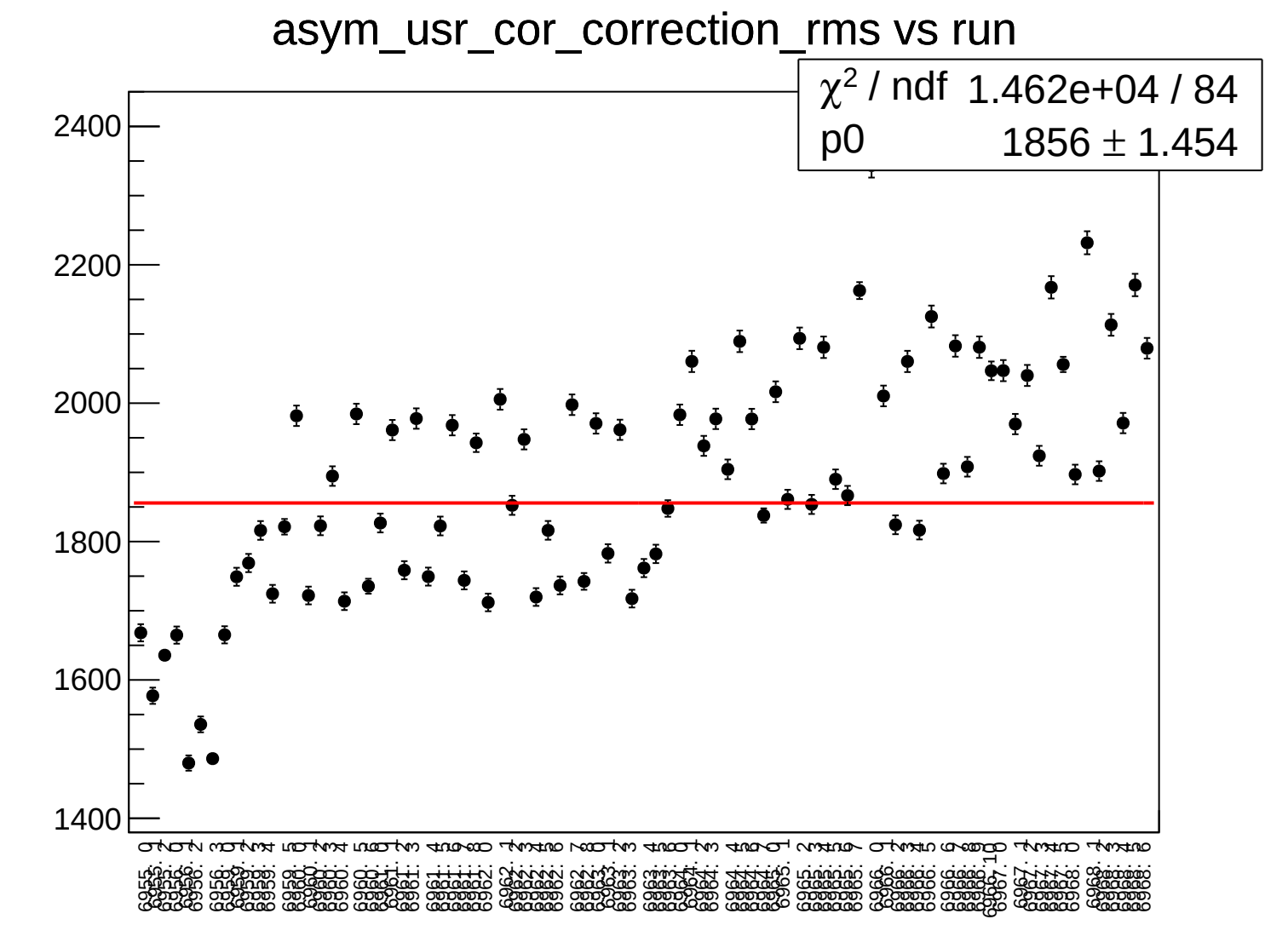

cor_asym_usr_mean vs run
χ² / ndf 89.46 / 84
p0 −2690 ± 1199
pull
Entries 85
Mean 2193
Std Dev 0

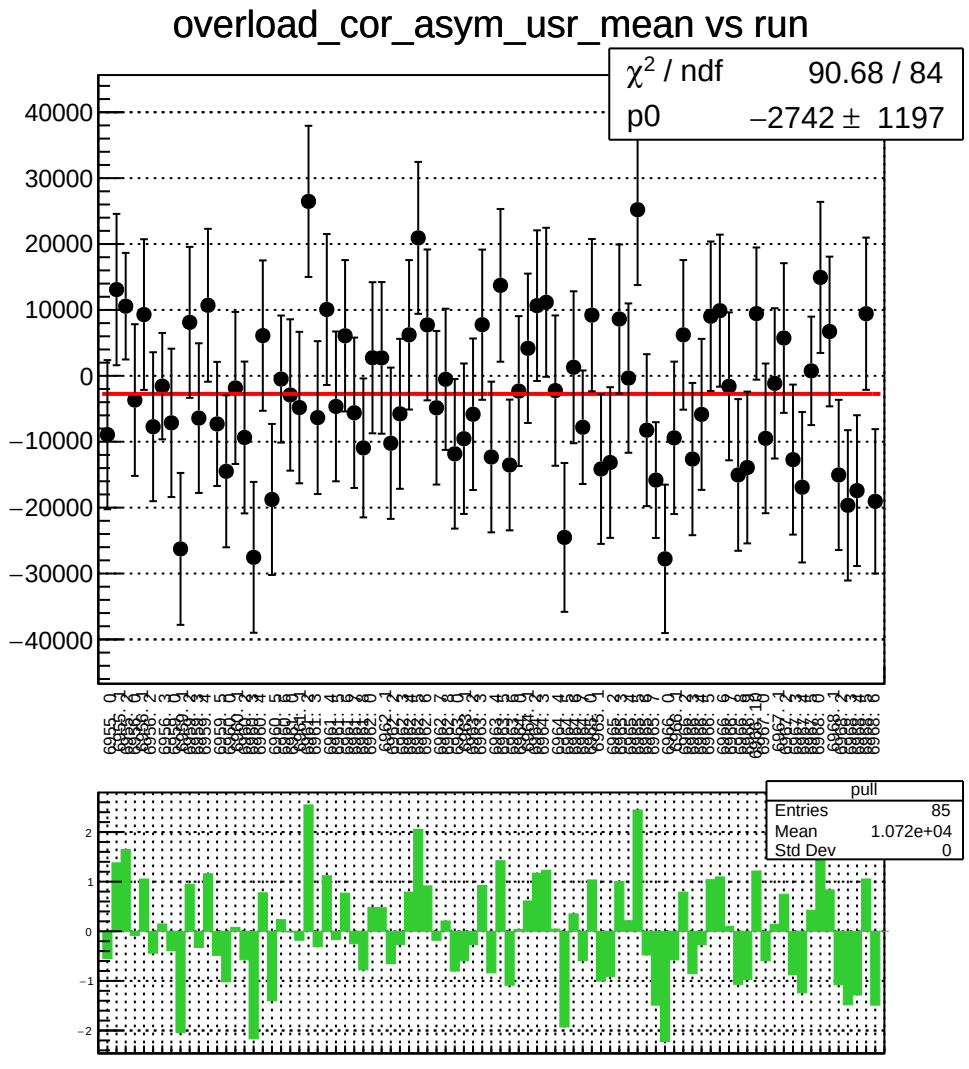

pull1D
Entries 85
Mean −0.001165
Std Dev 1.026

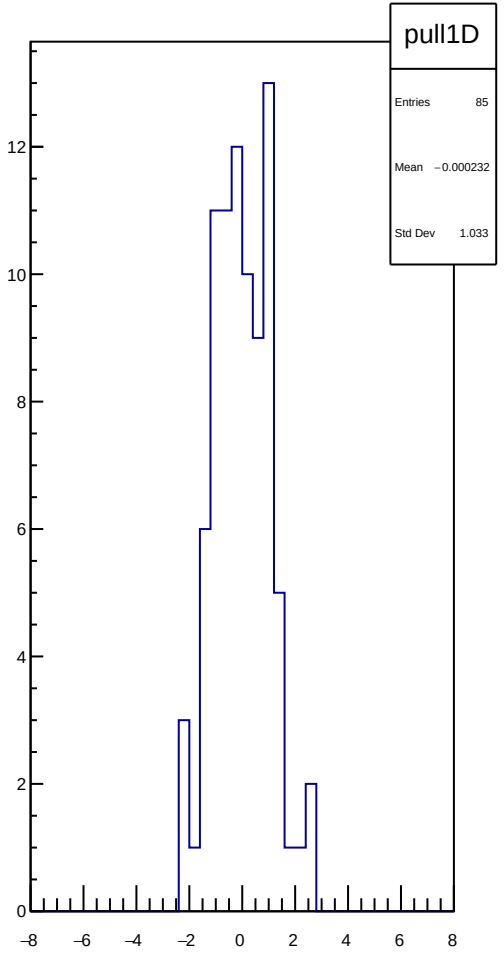

cor_asym_usr_rms vs run
χ² / ndf 100.9 / 84
p0 1087 ± 0.848
1120
1110
1100
1090
1080
1070
1060

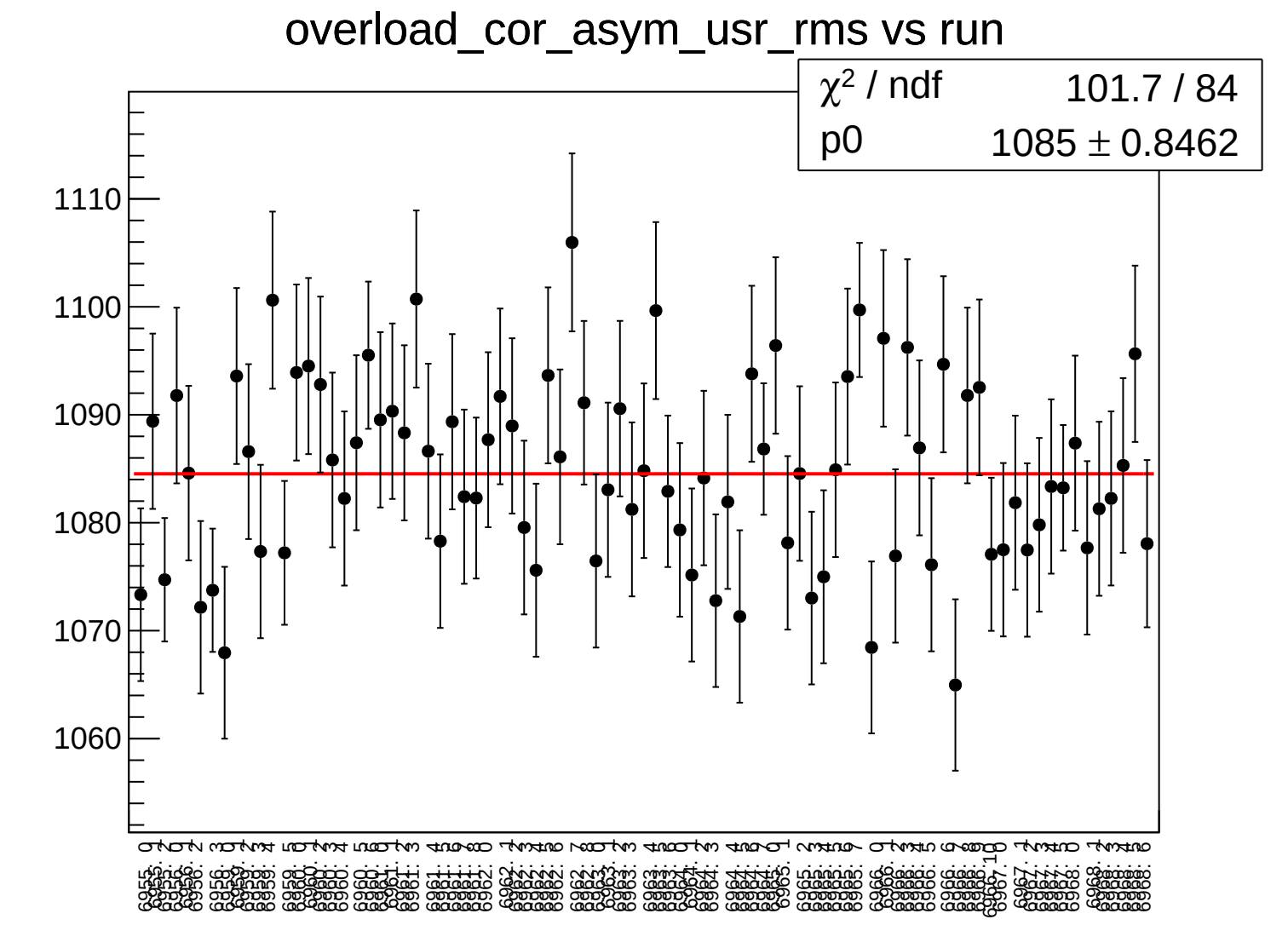

asym_usr_cor_correction_mean vs run
χ² / ndf 101.4 / 84
p0 −572.6 ± 2057
pull
Entries 85
Mean 16.72
Std Dev 50.49

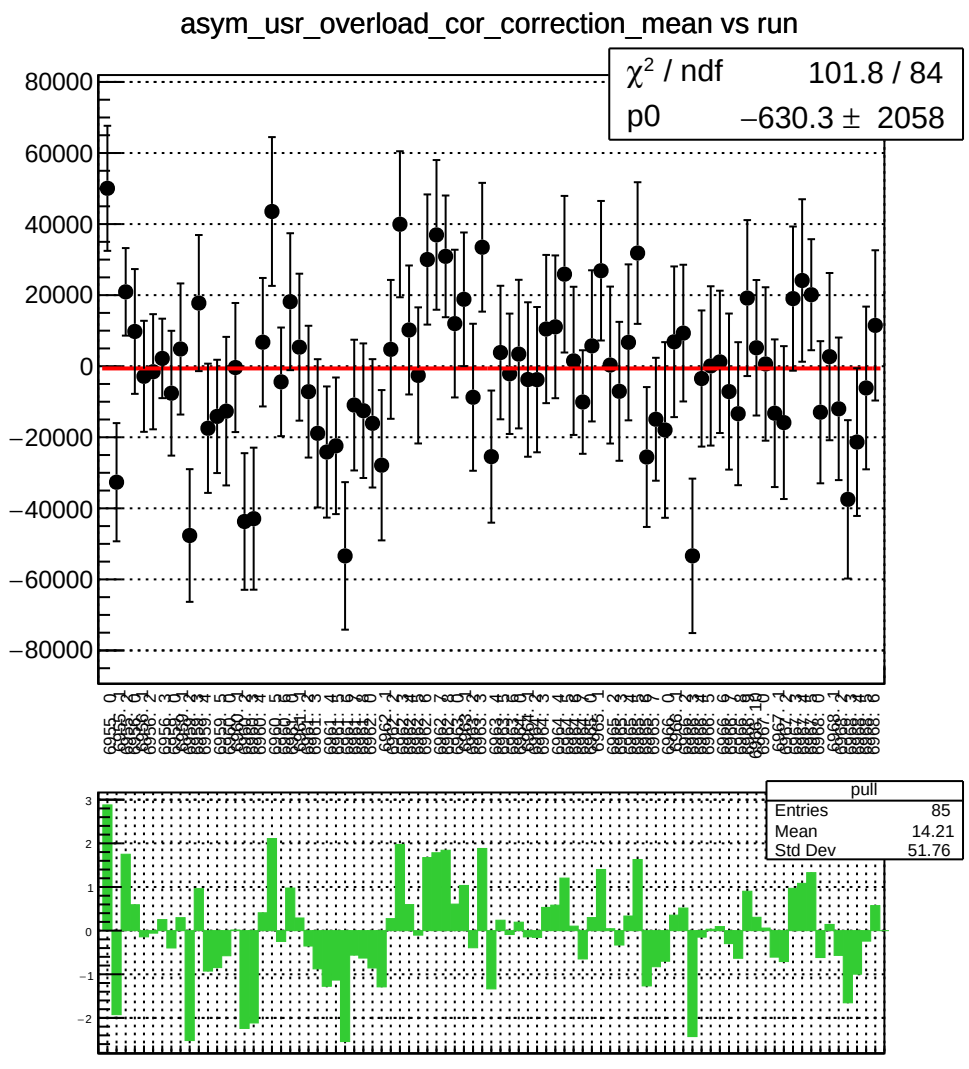

pull1D
Entries 85
Mean −0.0156
Std Dev 1.092

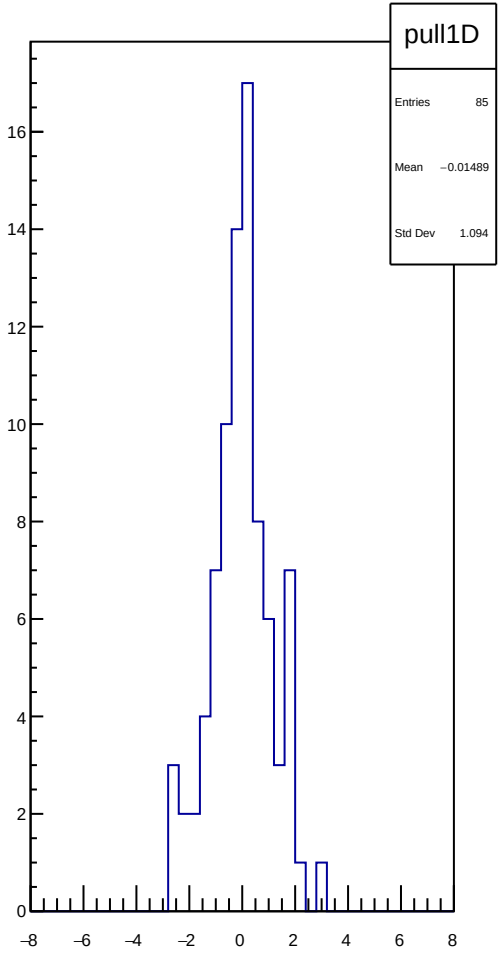

asym_usr_cor_correction_rms vs run
χ² / ndf 1.462e+04 / 84
p0 1856 ± 1.454
2400
2200
2000
1800
1600
1400

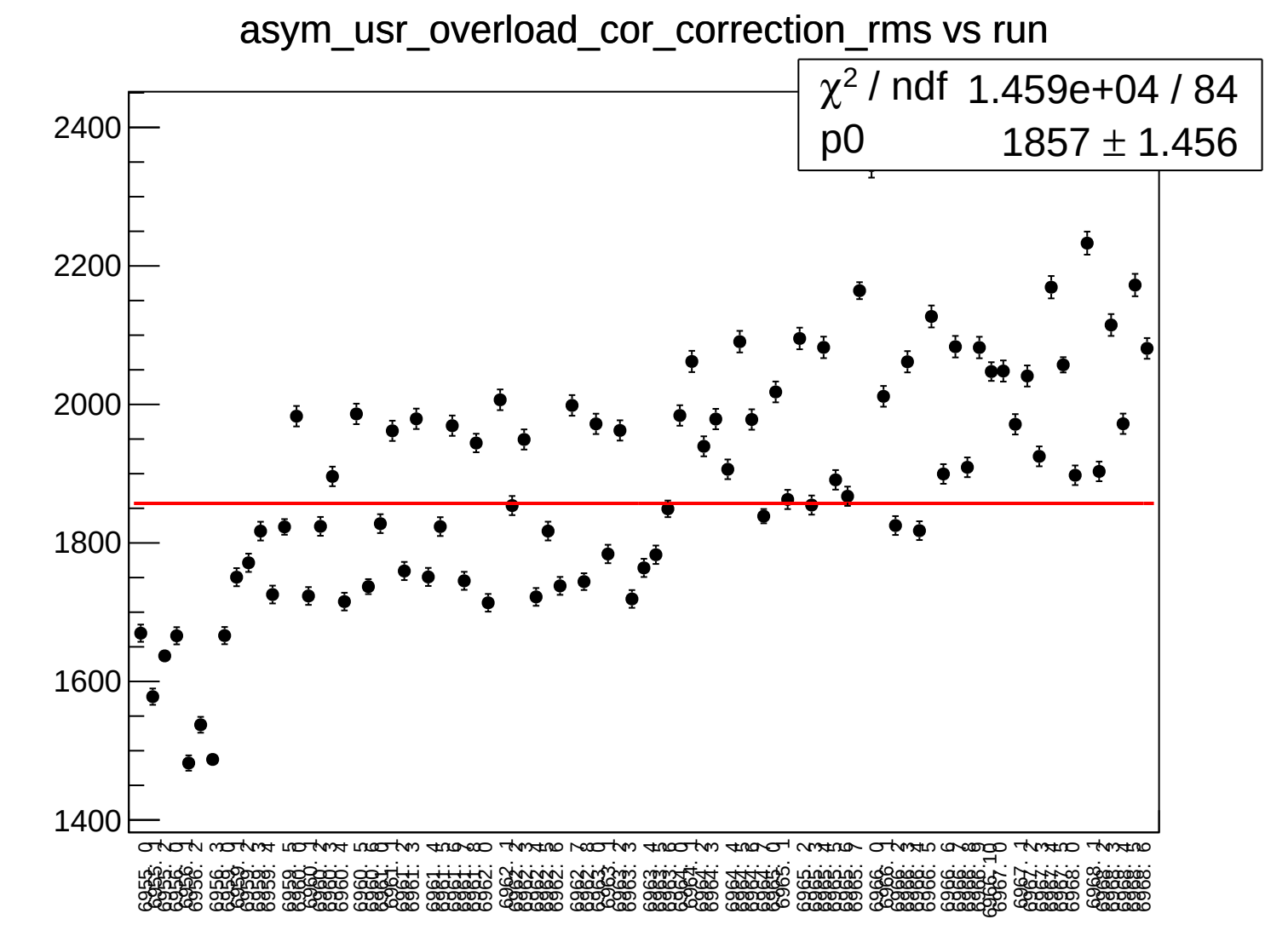

overload_cor_asym_usr_mean vs run
χ² / ndf 90.68 / 84
p0 −2742 ± 1197
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 1.072e+04
Std Dev 0
2
1
0
−1
−2

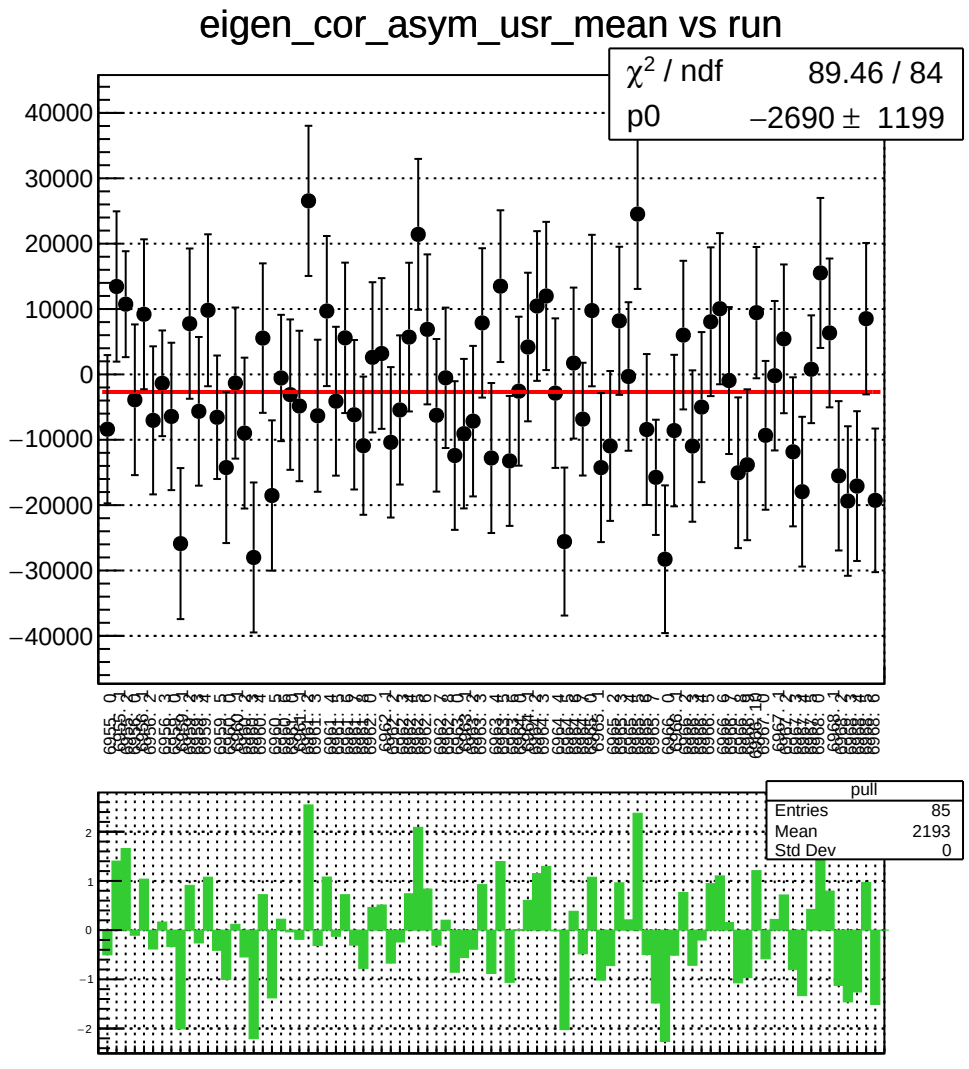

pull1D
Entries 85
Mean −0.000232
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

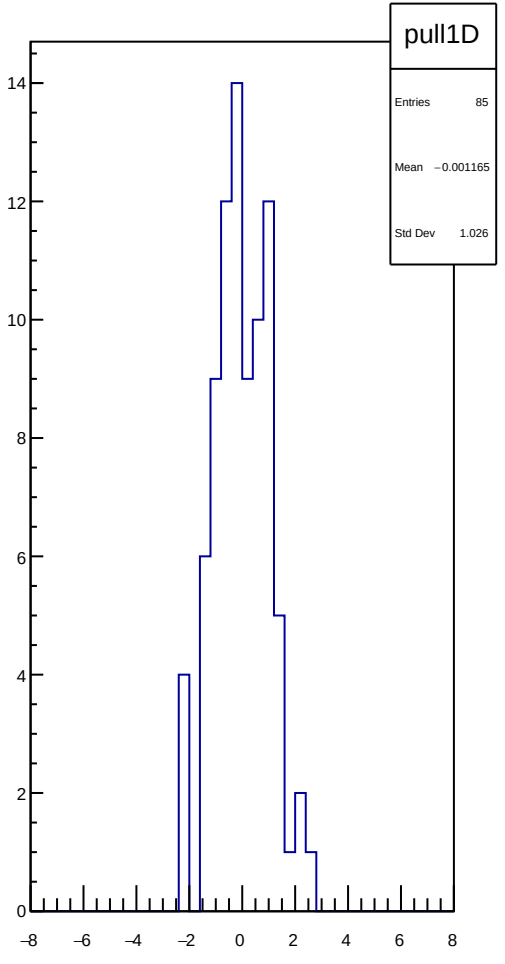

overload_cor_asym_usr_rms vs run
χ² / ndf 101.7 / 84
p0 1085 ± 0.8462
1110
1100
1090
1080
1070
1060

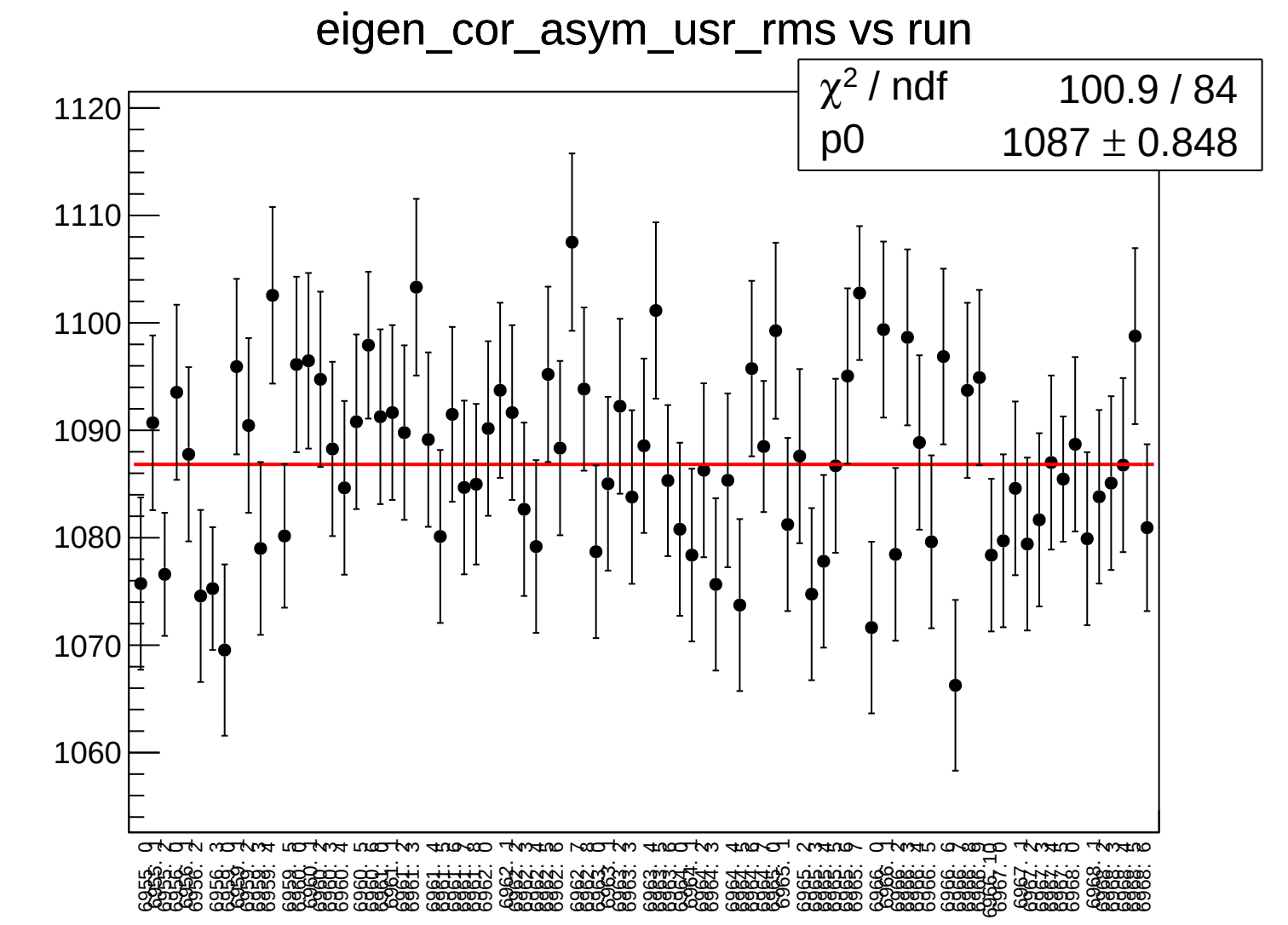

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 101.8 / 84
p0 −630.3 ± 2058
pull
Entries 85
Mean 14.21
Std Dev 51.76

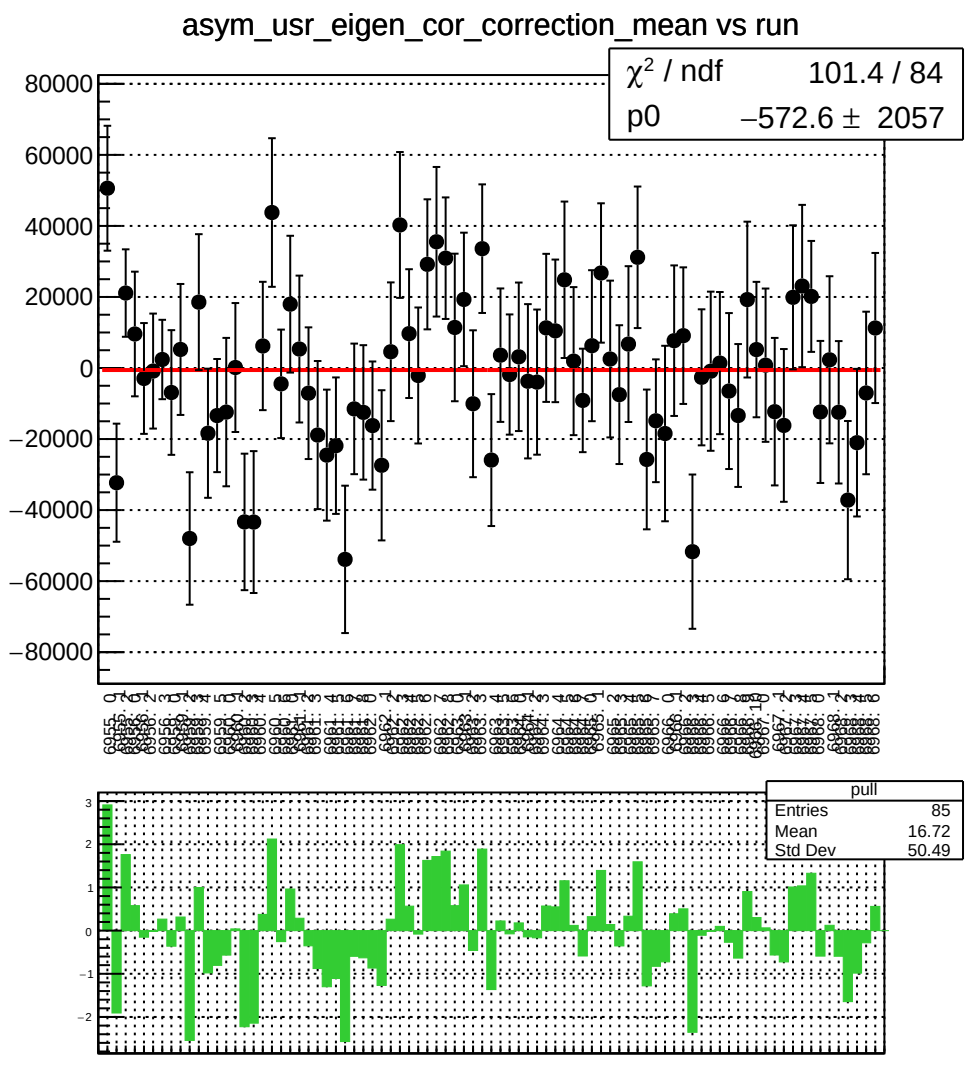

pull1D
Entries 85
Mean −0.01489
Std Dev 1.094

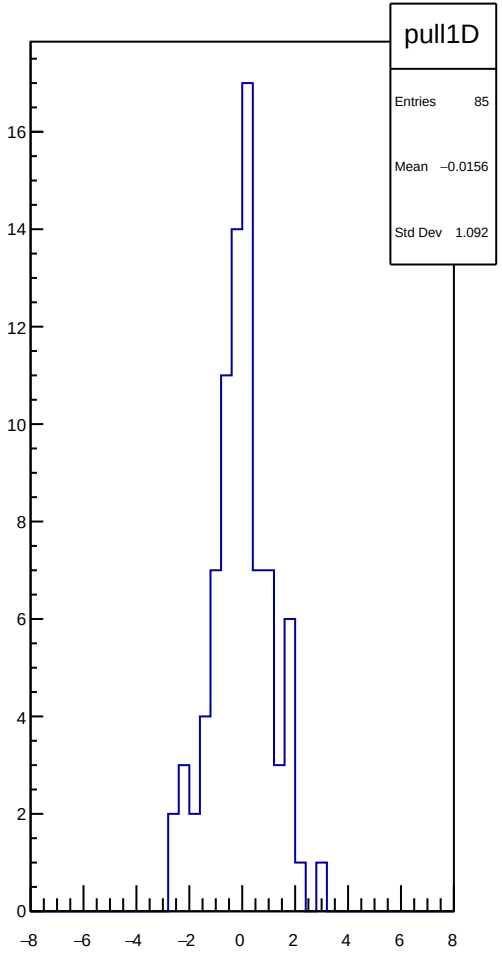

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.459e+04 / 84
p0 1857 ± 1.456
2400
2200
2000
1800
1600
1400

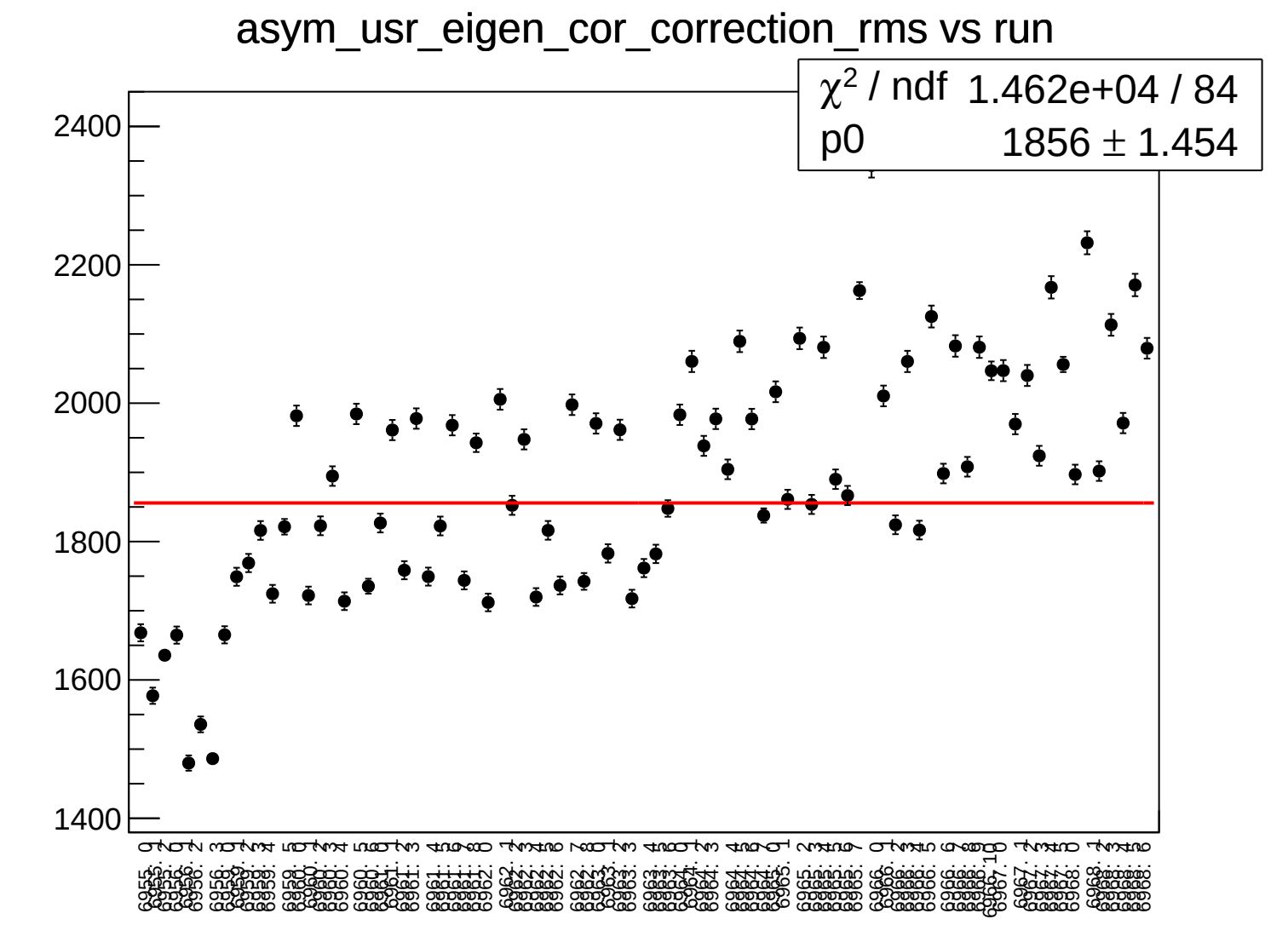

eigen_cor_asym_usr_mean vs run
χ² / ndf 89.46 / 84
p0 −2690 ± 1199
pull
Entries 85
Mean 2193
Std Dev 0

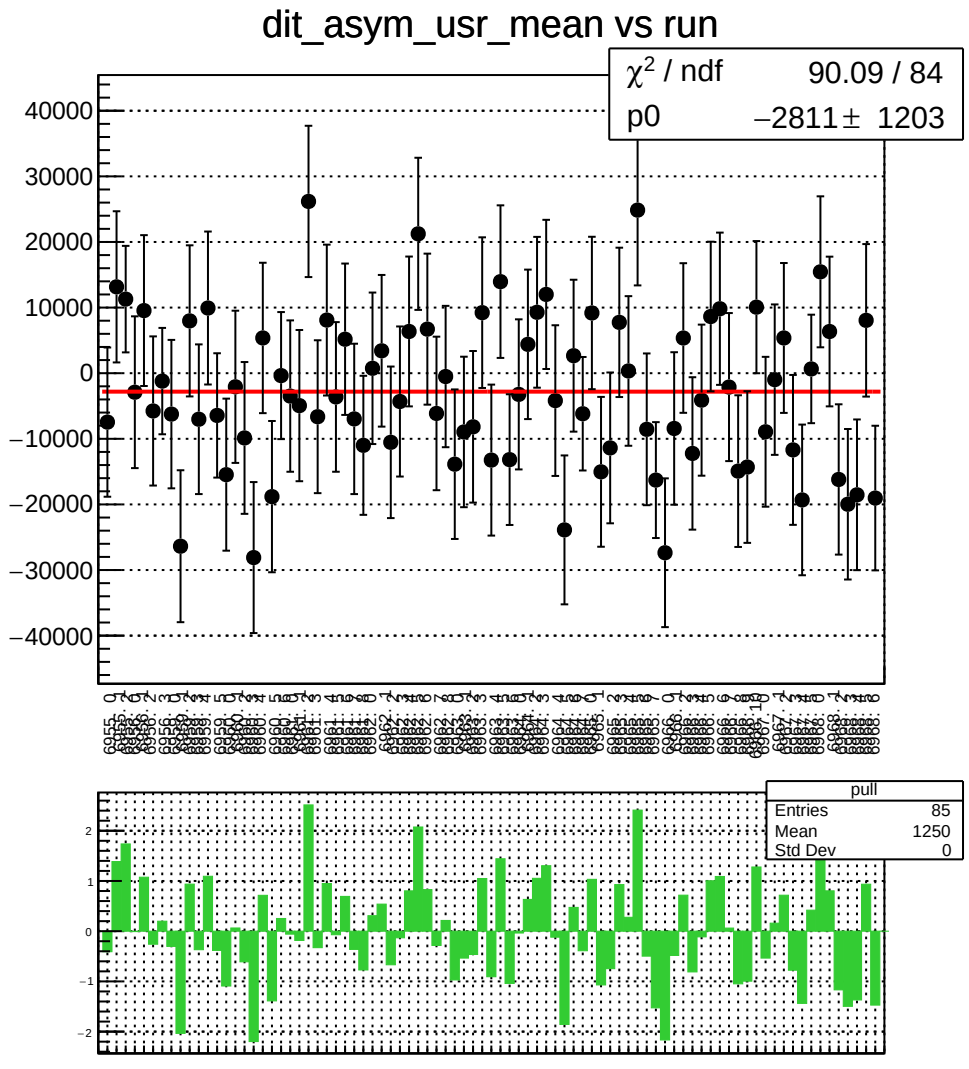

pull1D
Entries 85
Mean −0.001165
Std Dev 1.026

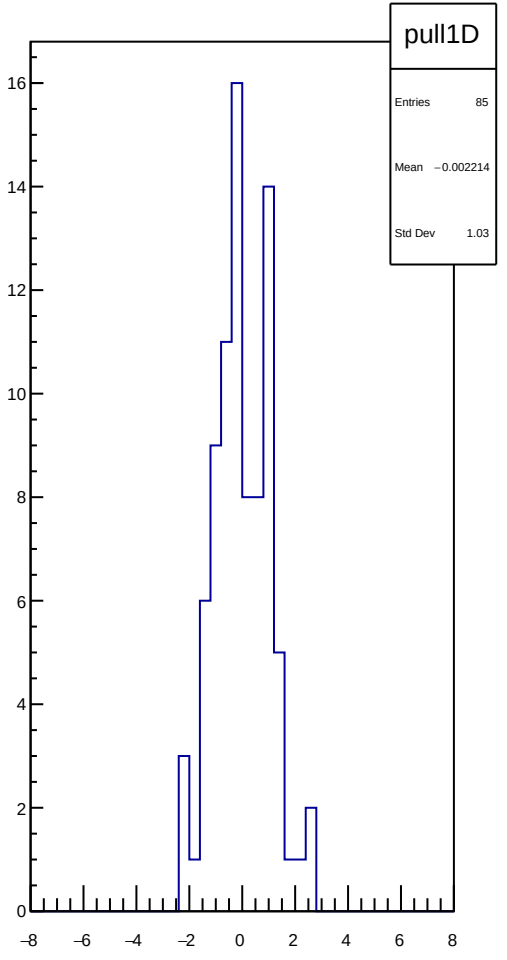

eigen_cor_asym_usr_rms vs run
$\chi^2$ / ndf 100.9 / 84
p0 1087 ± 0.848
1120
1110
1100
1090
1080
1070
1060

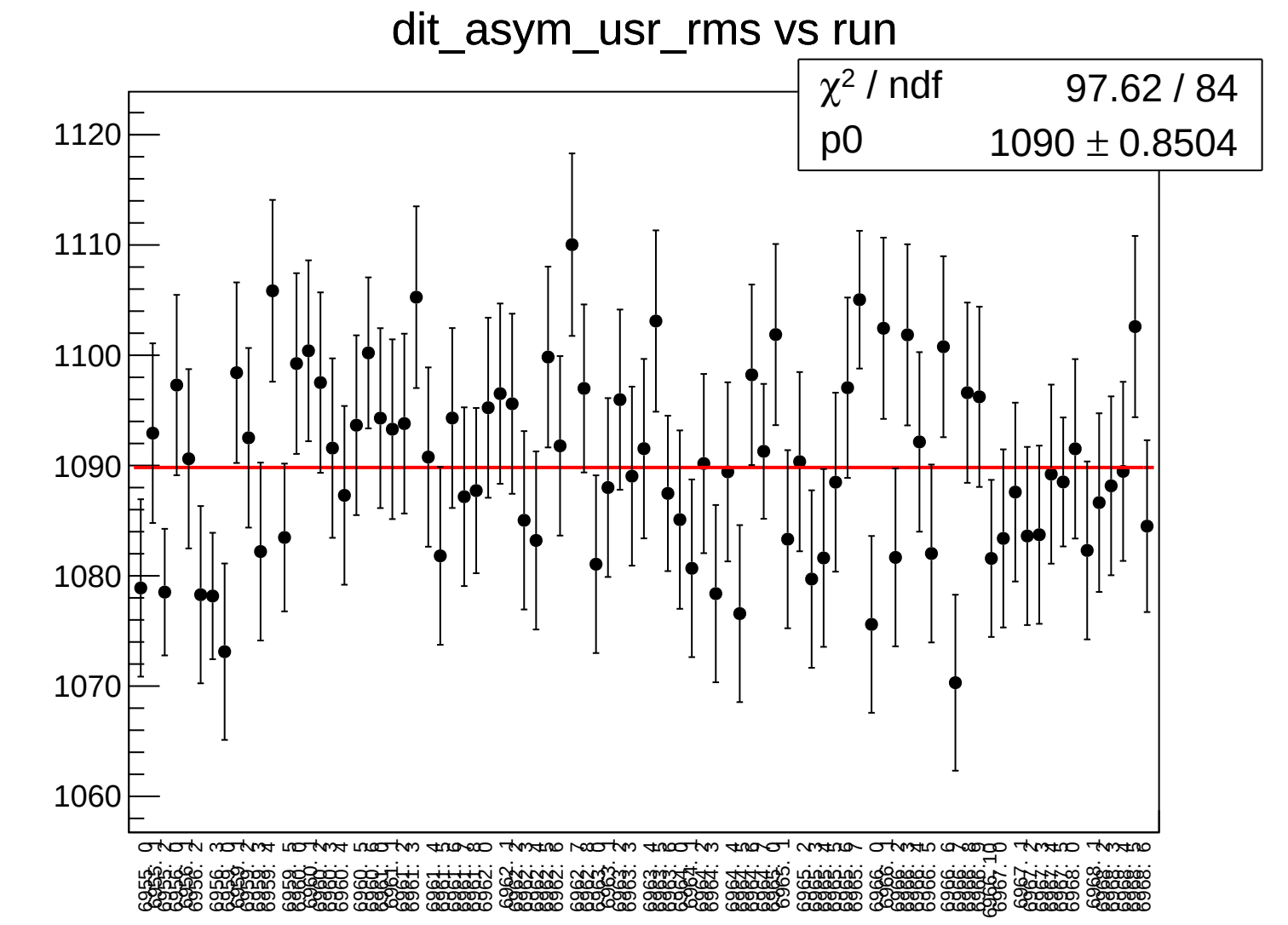

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 101.4 / 84
p0 −572.6 ± 2057
pull
Entries 85
Mean 16.72
Std Dev 50.49

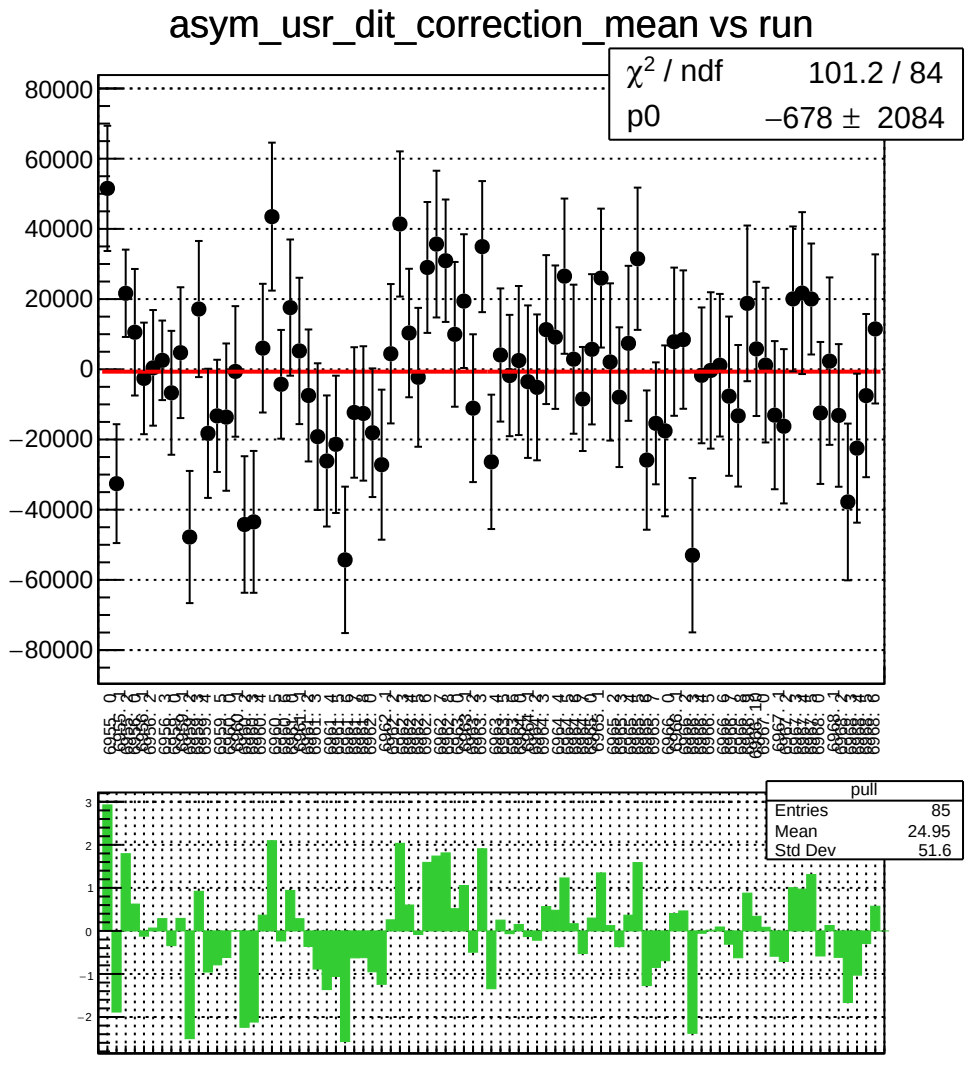

pull1D
Entries 85
Mean −0.0156
Std Dev 1.092

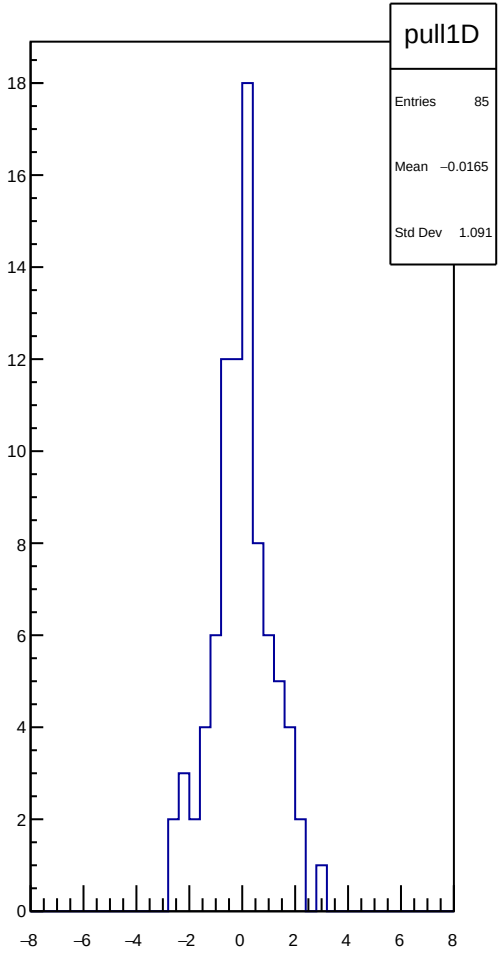

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1.462e+04 / 84
p0 1856 ± 1.454
2400
2200
2000
1800
1600
1400

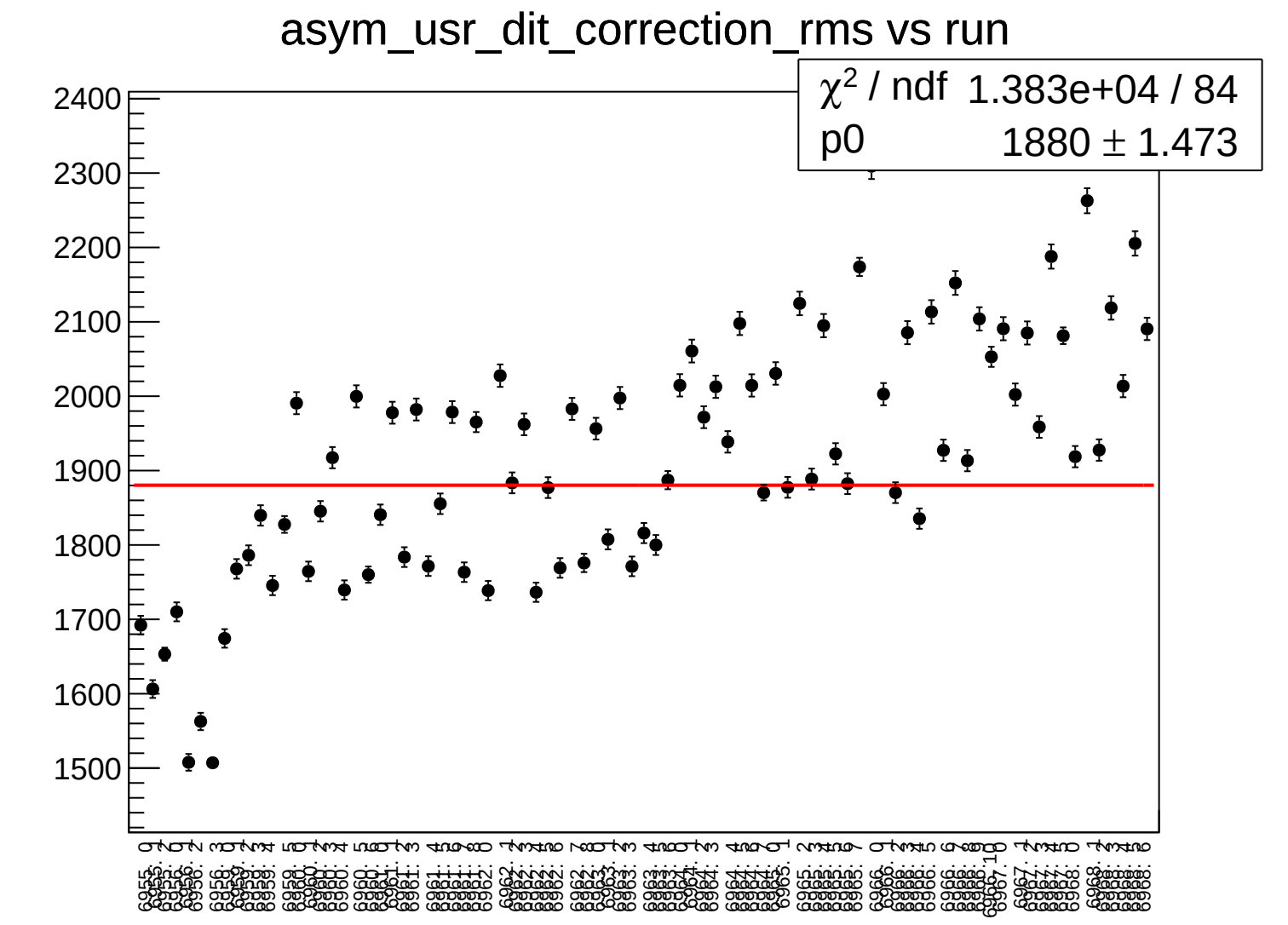

dit_asym_usr_mean vs run
χ² / ndf 90.09 / 84
p0 −2811 ± 1203
pull
Entries 85
Mean 1250
Std Dev 0

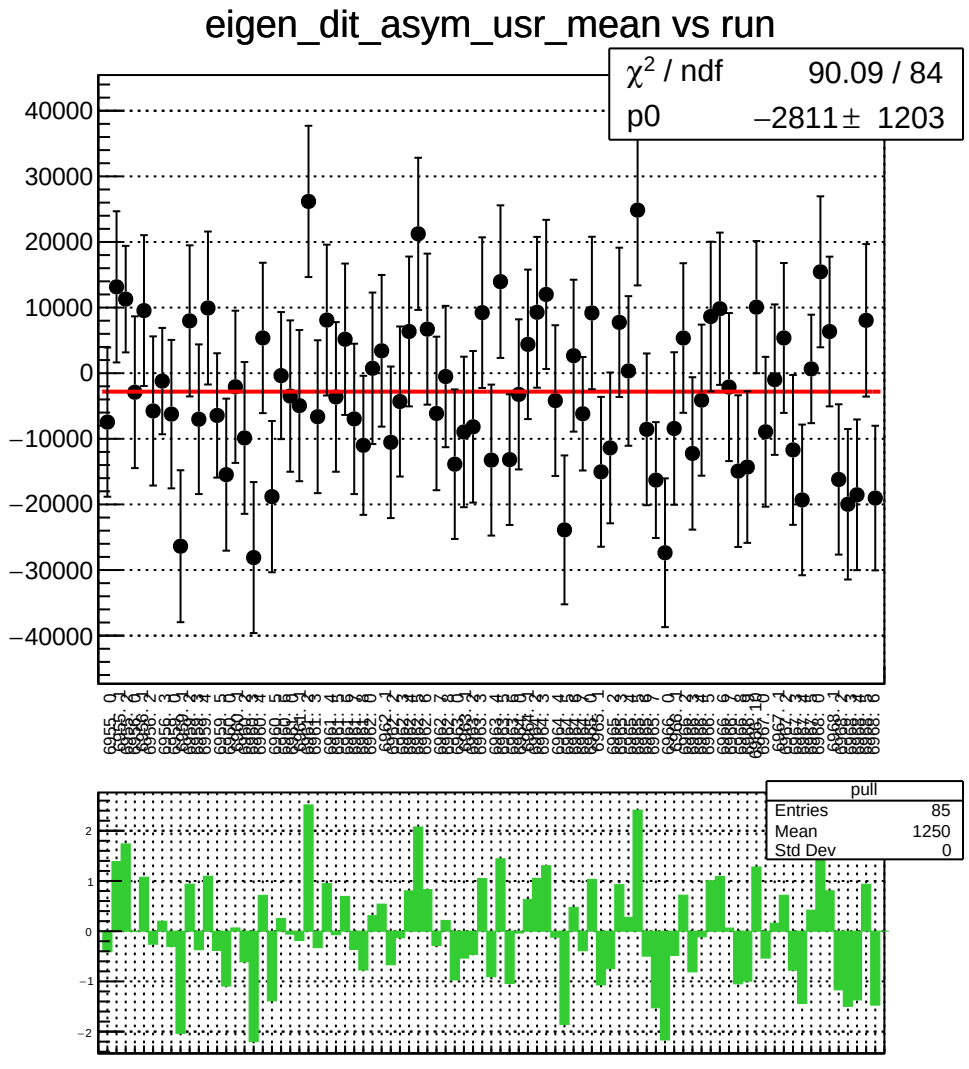

pull1D
Entries 85
Mean −0.002214
Std Dev 1.03

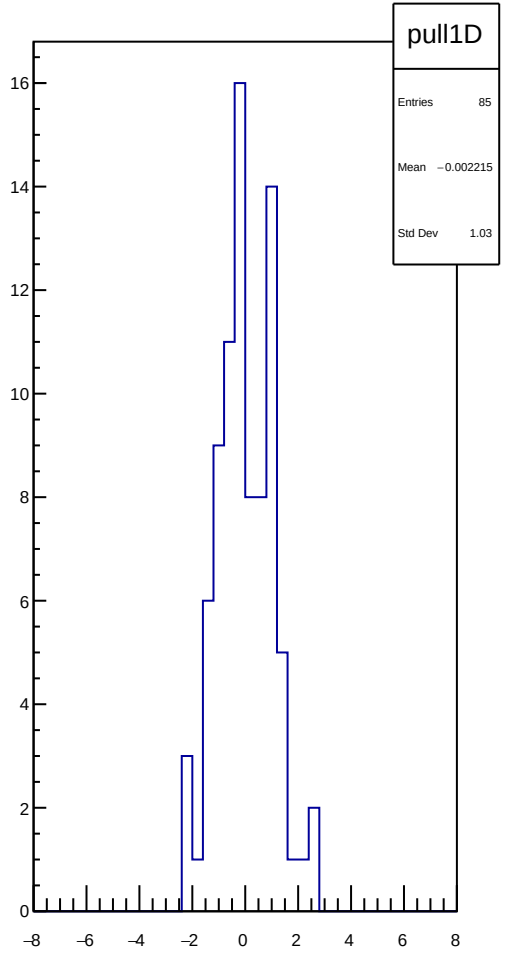

dit_asym_usr_rms vs run
$\chi^2$ / ndf 97.62 / 84
p0 1090 ± 0.8504
1120
1110
1100
1090
1080
1070
1060

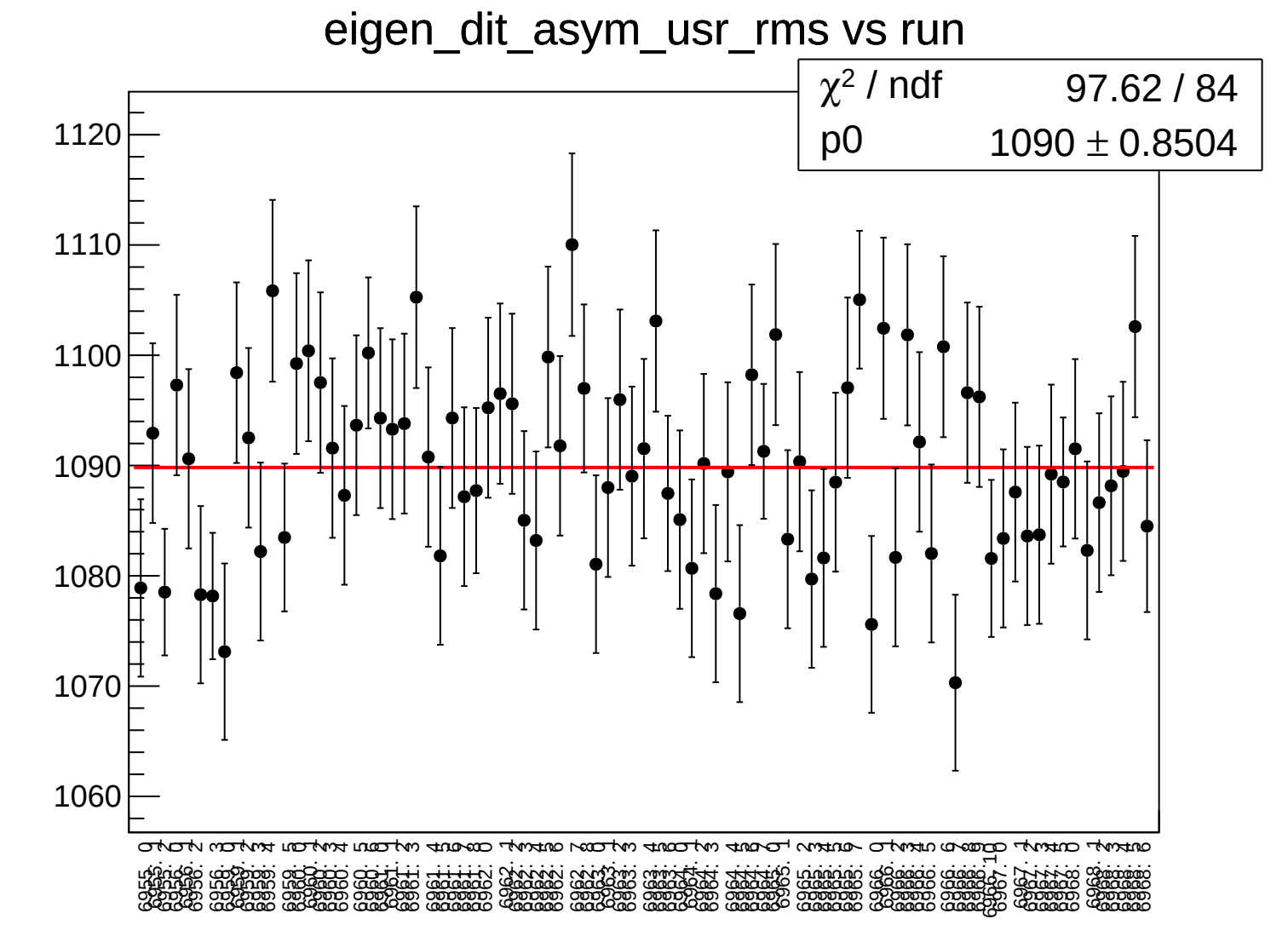

asym_usr_dit_correction_mean vs run
χ² / ndf 101.2 / 84
p0 −678 ± 2084
pull
Entries 85
Mean 24.95
Std Dev 51.6

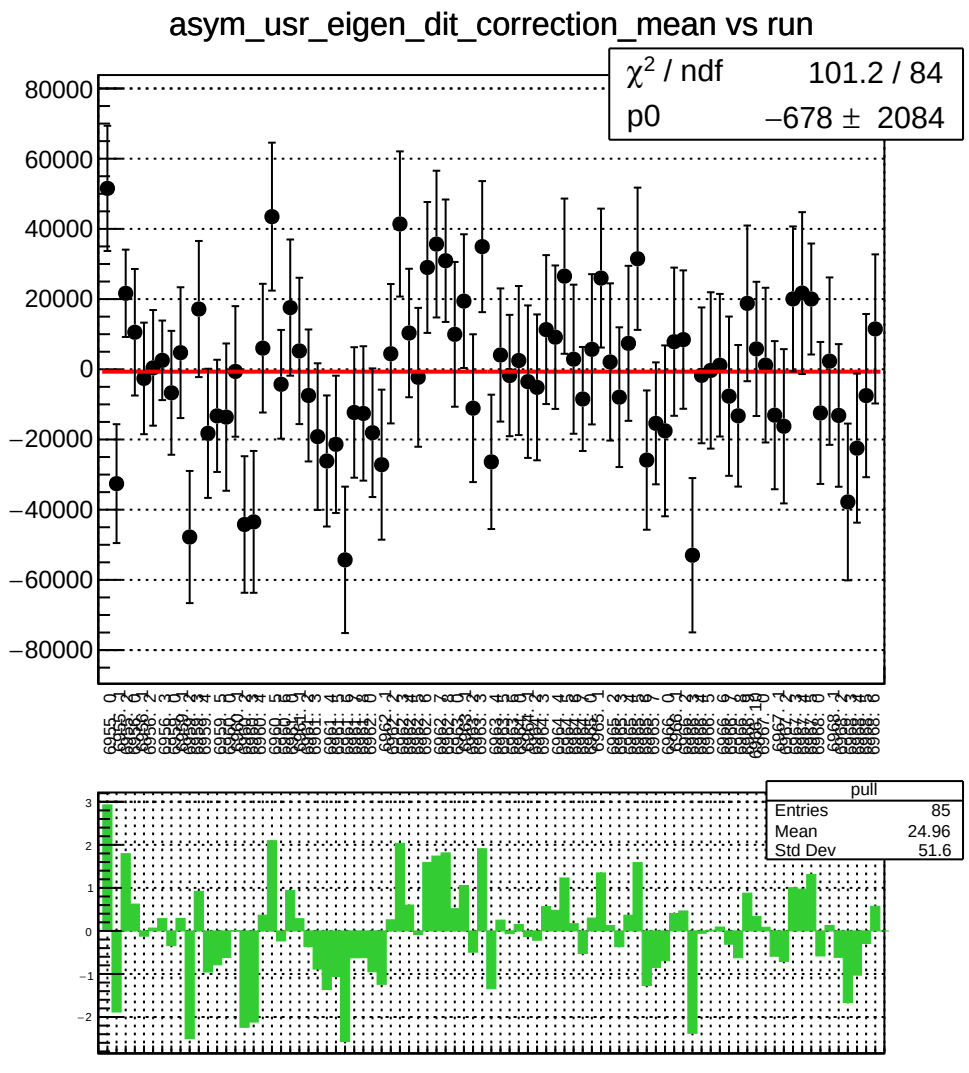

pull1D
Entries 85
Mean −0.0165
Std Dev 1.091

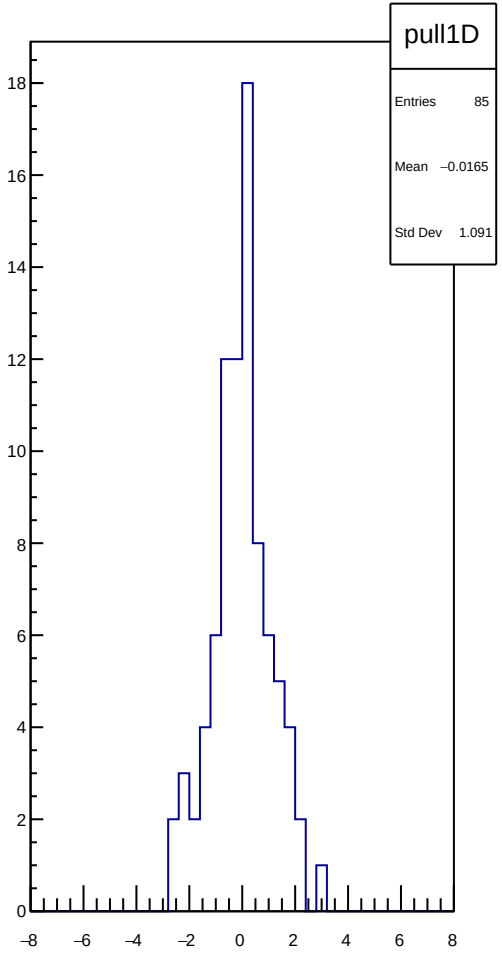

asym_usr_dit_correction_rms vs run
χ² / ndf 1.383e+04 / 84
p0 1880 ± 1.473
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

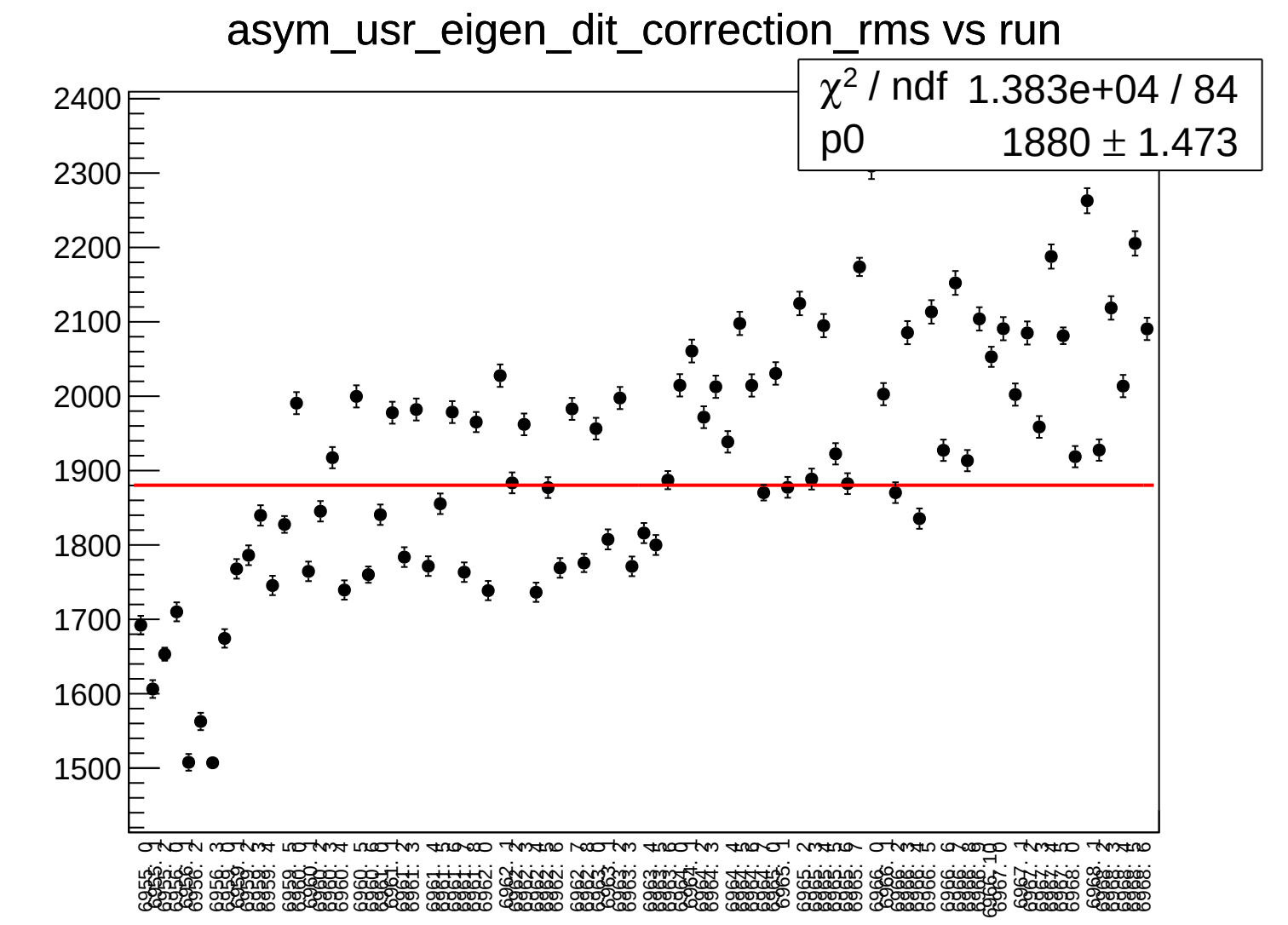

eigen_dit_asym_usr_mean vs run
χ² / ndf 90.09 / 84
p0 −2811 ± 1203
pull
Entries 85
Mean 1250
Std Dev 0

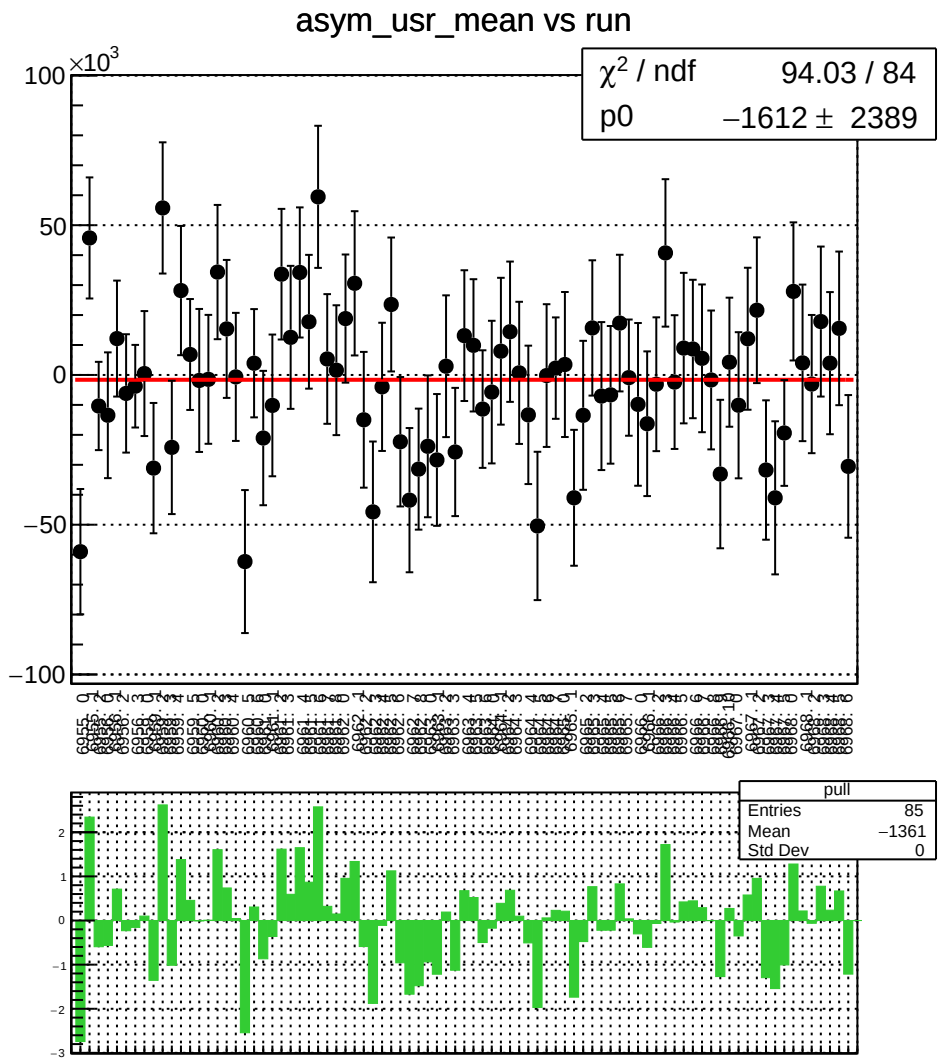

pull1D
Entries 85
Mean −0.002215
Std Dev 1.03

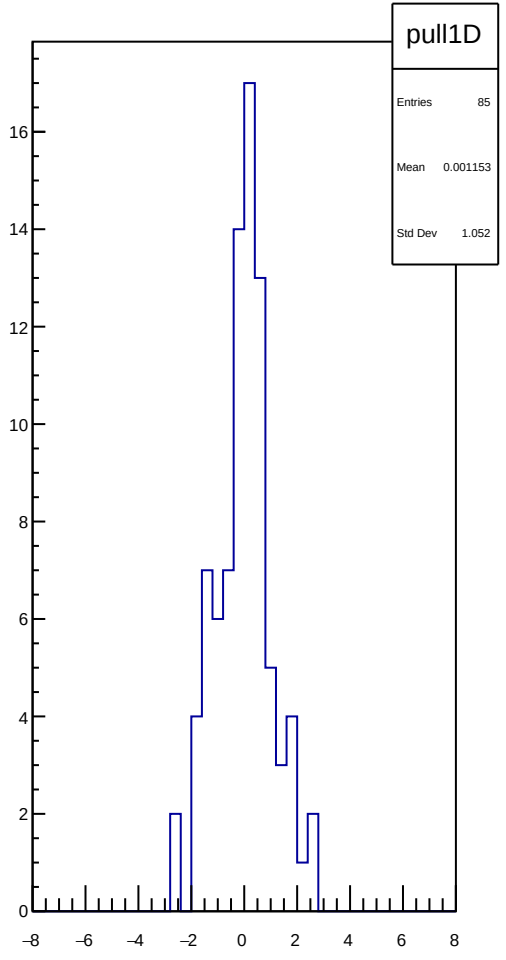

eigen_dit_asym_usr_rms vs run
$\chi^2$ / ndf 97.62 / 84
p0 1090 ± 0.8504
1120
1110
1100
1090
1080
1070
1060

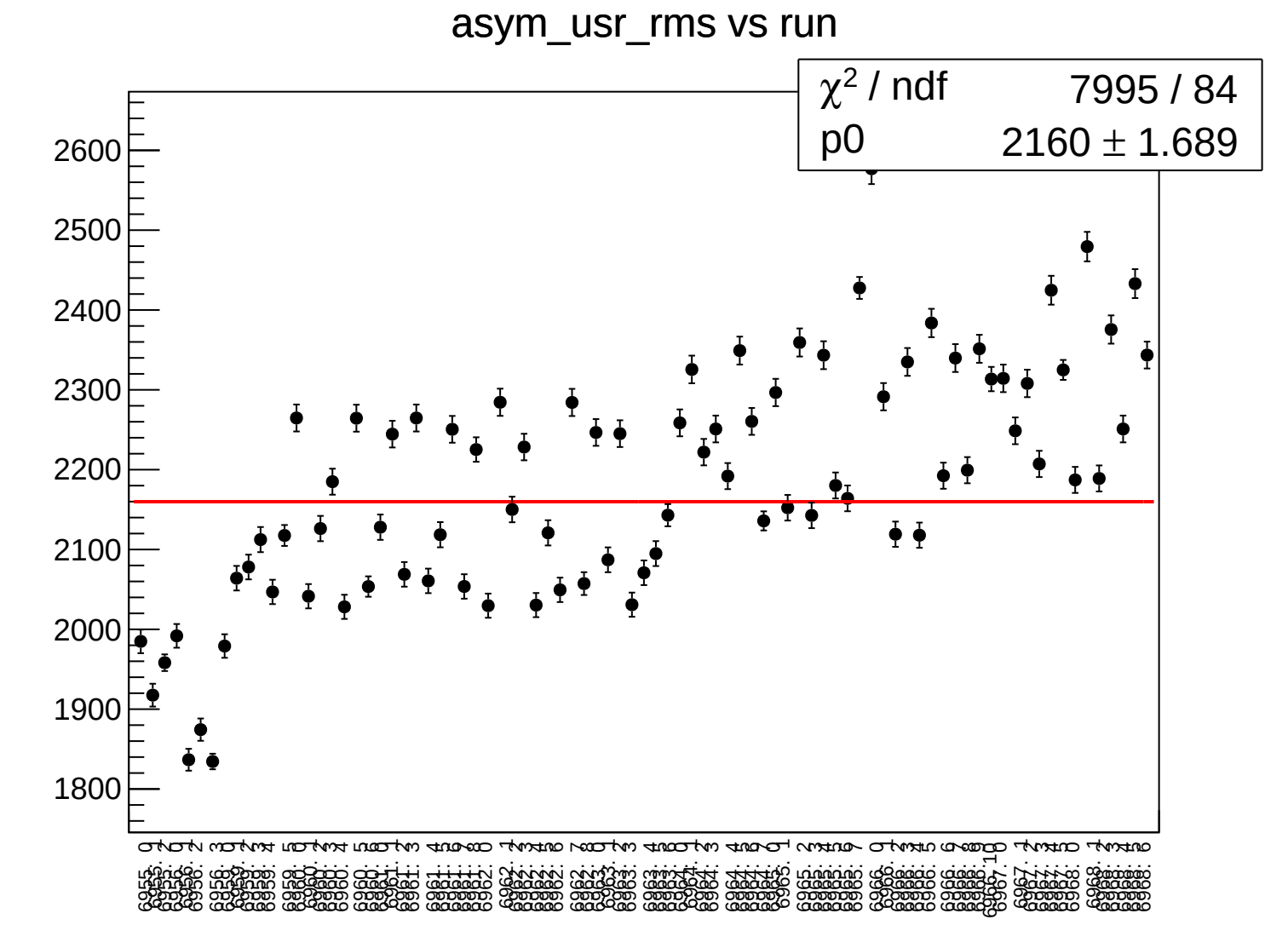

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 101.2 / 84
p0 −678 ± 2084
pull
Entries 85
Mean 24.96
Std Dev 51.6

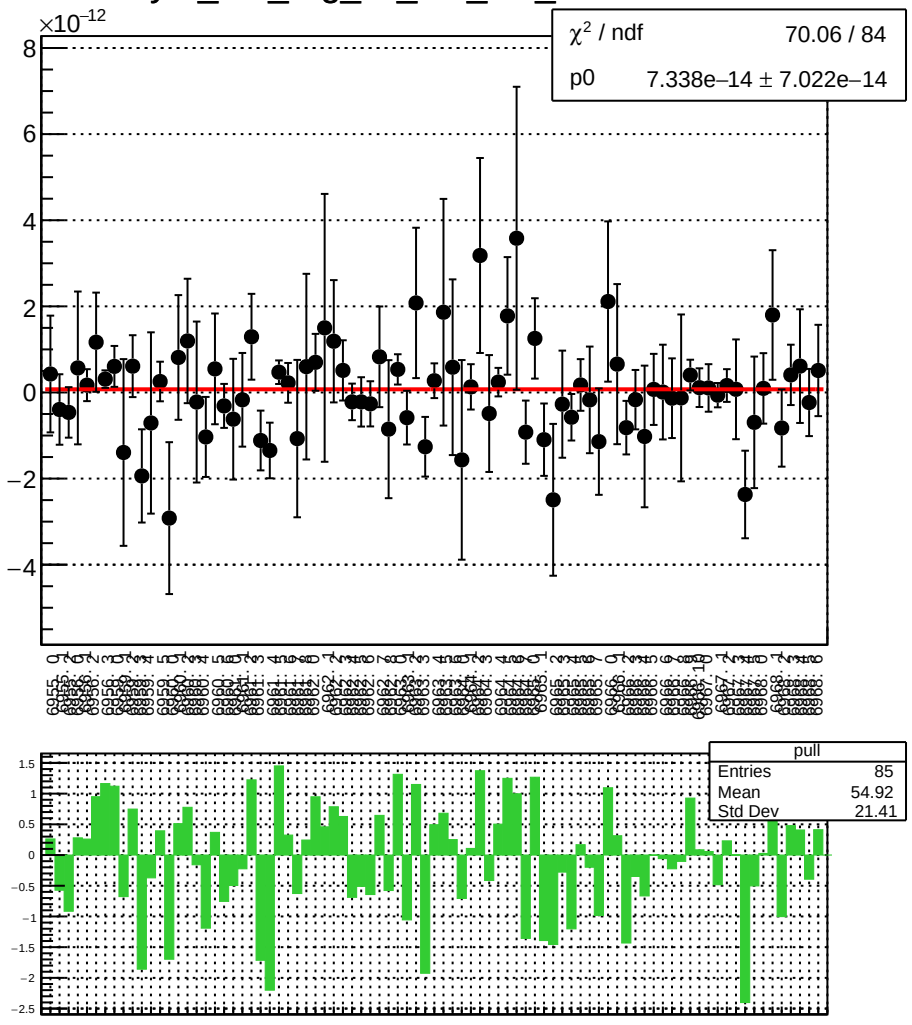

pull1D
Entries 85
Mean −0.0165
Std Dev 1.091

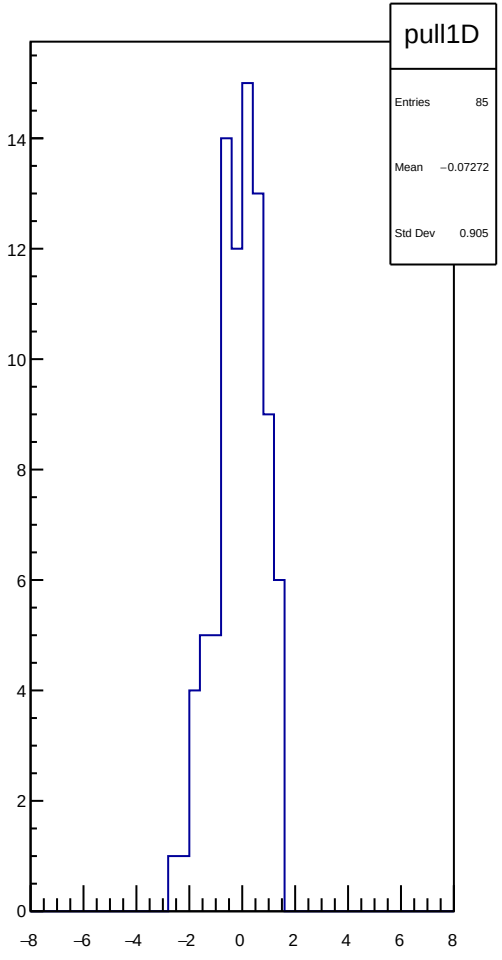

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 1.383e+04 / 84
p0 1880 ± 1.473
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

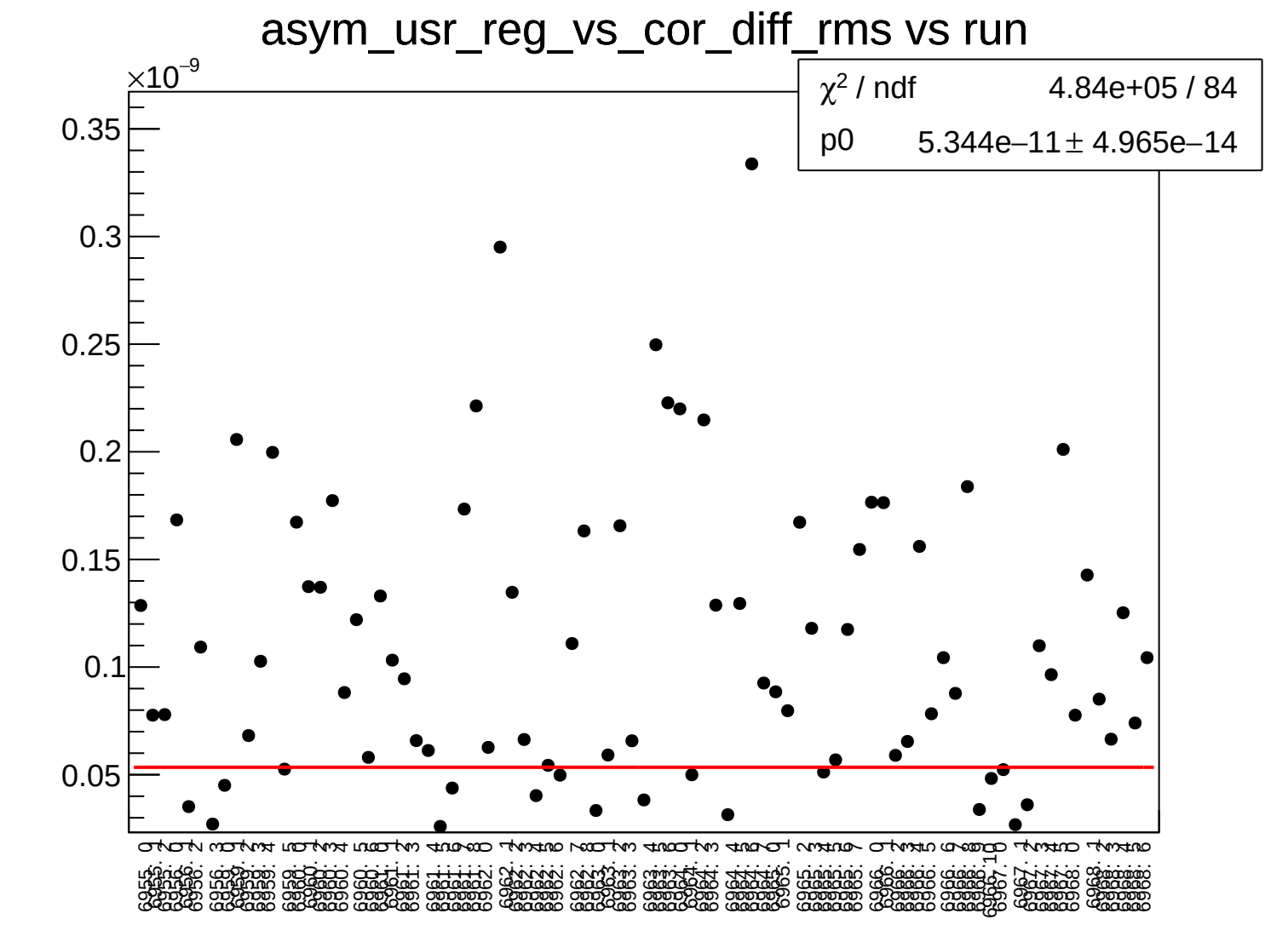

asym_usr_mean vs run
χ² / ndf 94.03 / 84
p0 −1612 ± 2389
×10³
100
50
0
−50
−100
pull
Entries 85
Mean −1361
Std Dev 0
2
1
0
−1
−2
−3

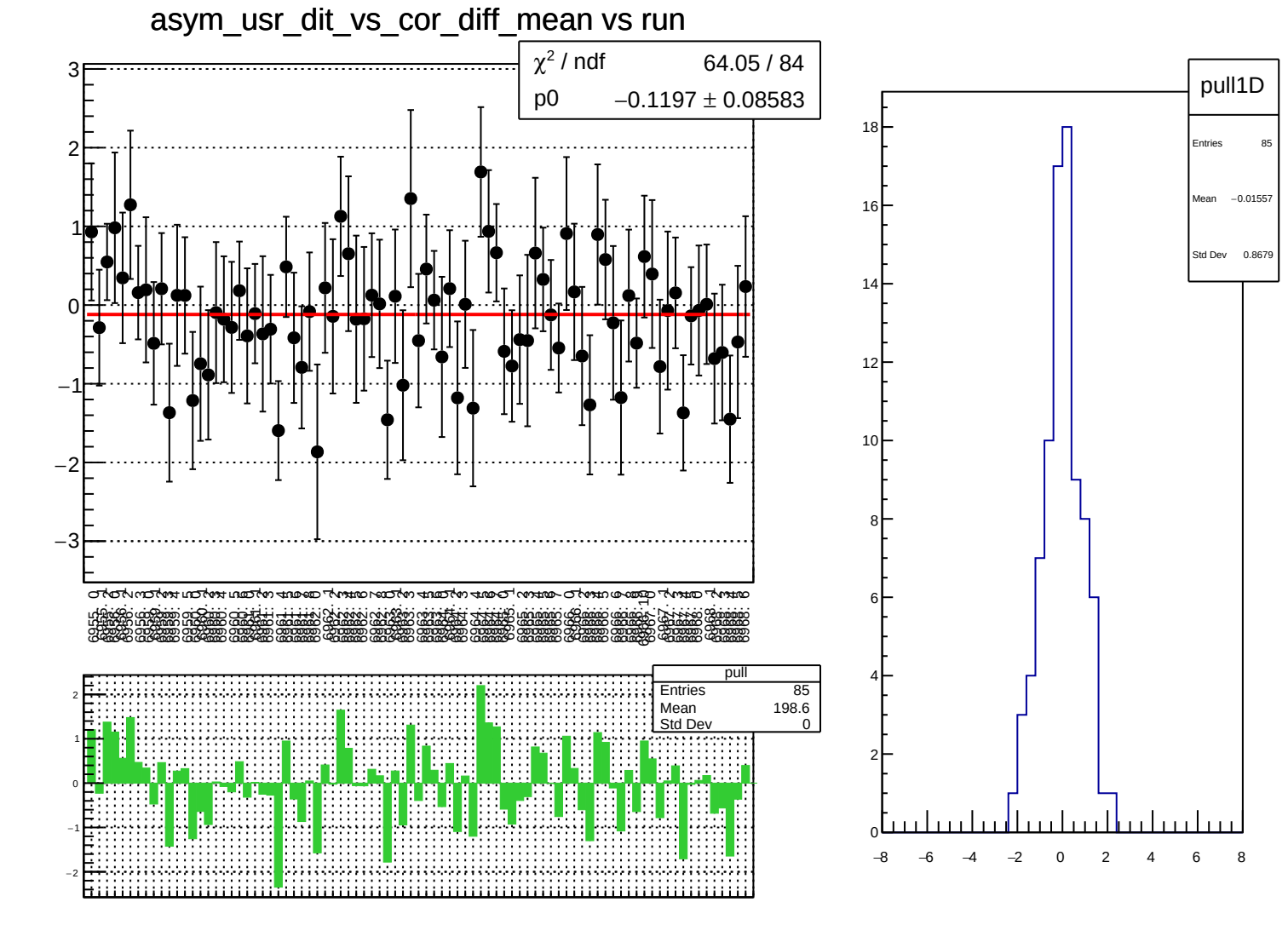

pull1D
Entries 85
Mean 0.001153
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

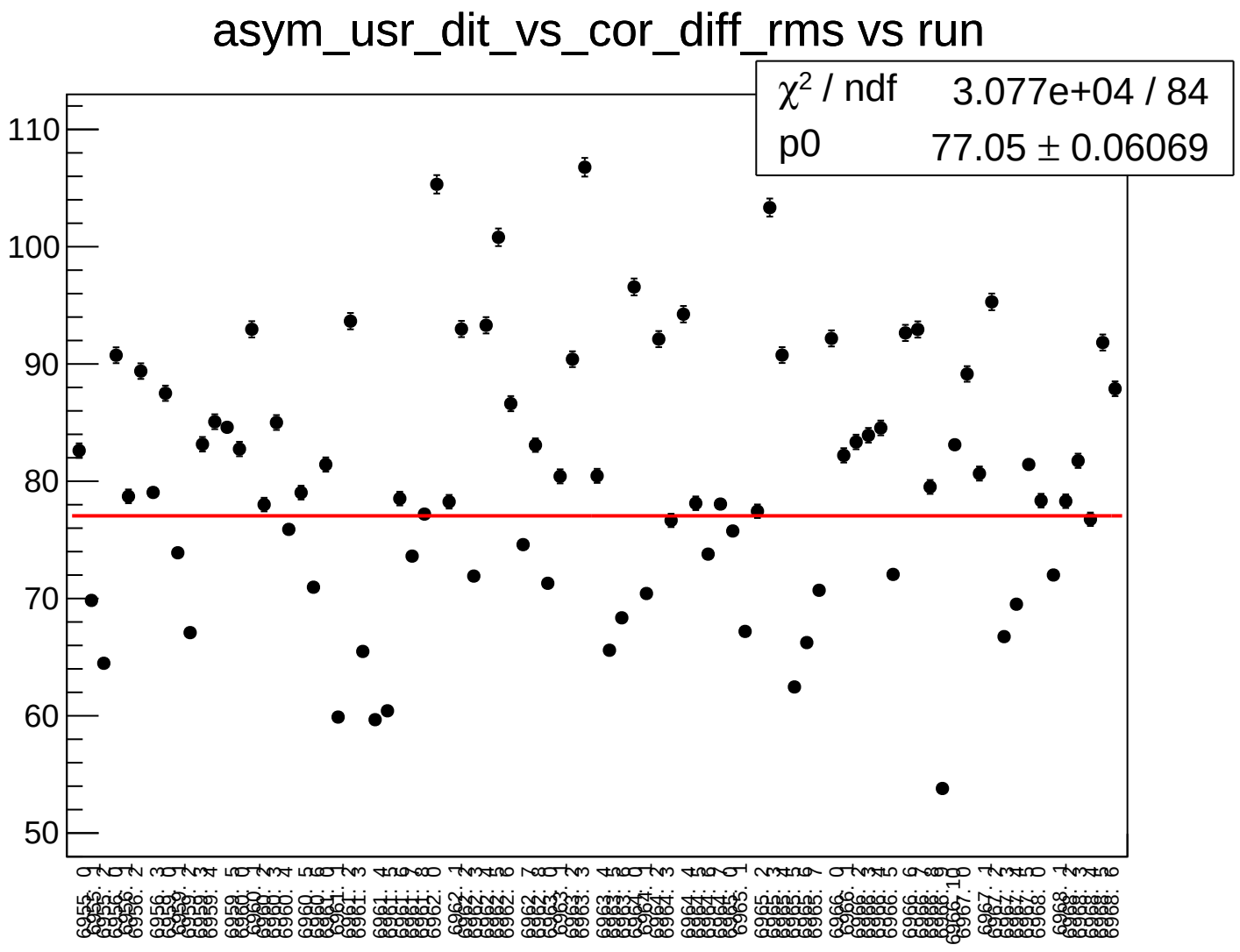

asym_usr_rms vs run
χ² / ndf 7995 / 84
p0 2160 ± 1.689
2600
2500
2400
2300
2200
2100
2000
1900
1800

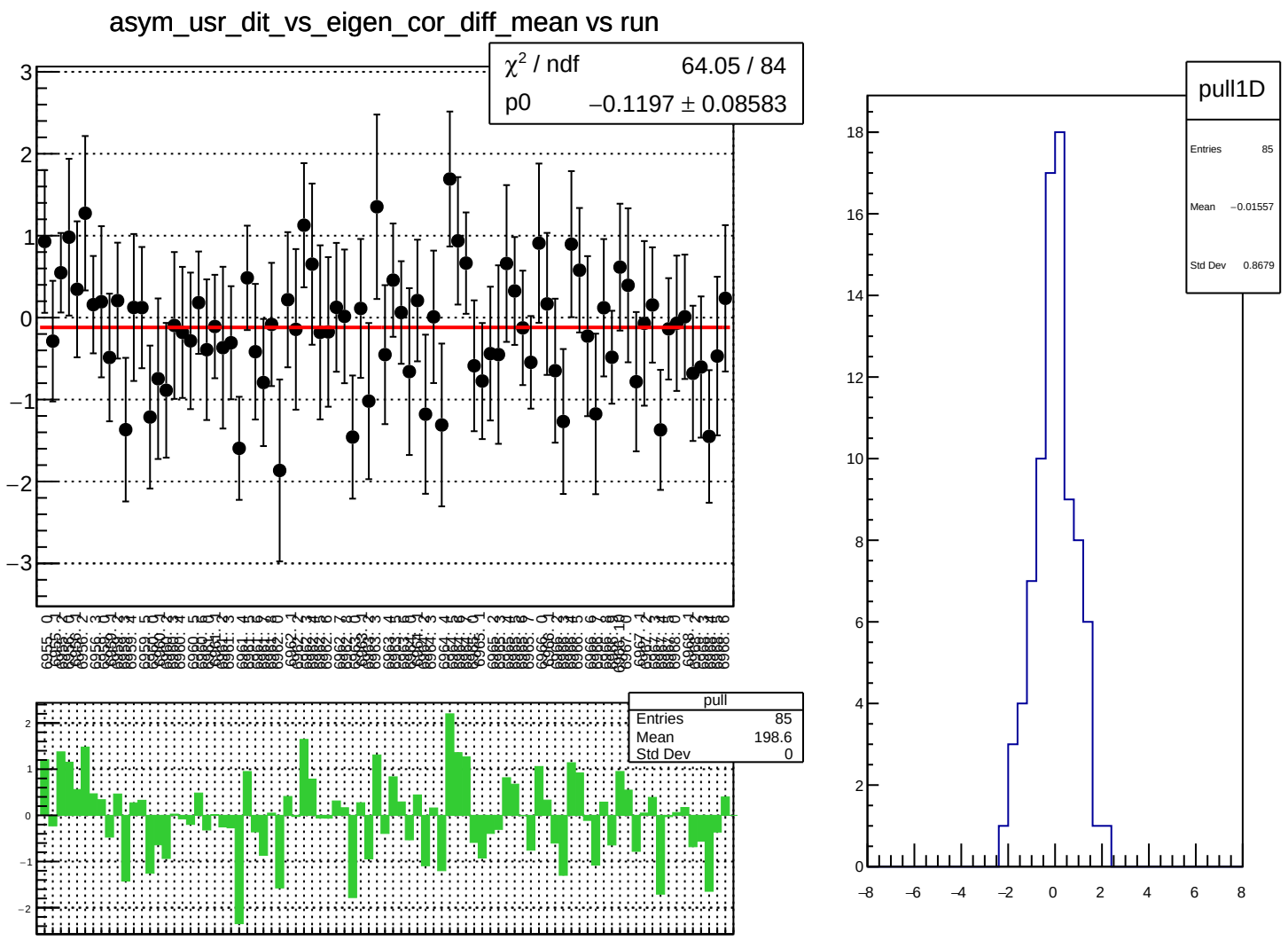

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.06 / 84
p0 7.338e−14 ± 7.022e−14
pull
Entries 85
Mean 54.92
Std Dev 21.41

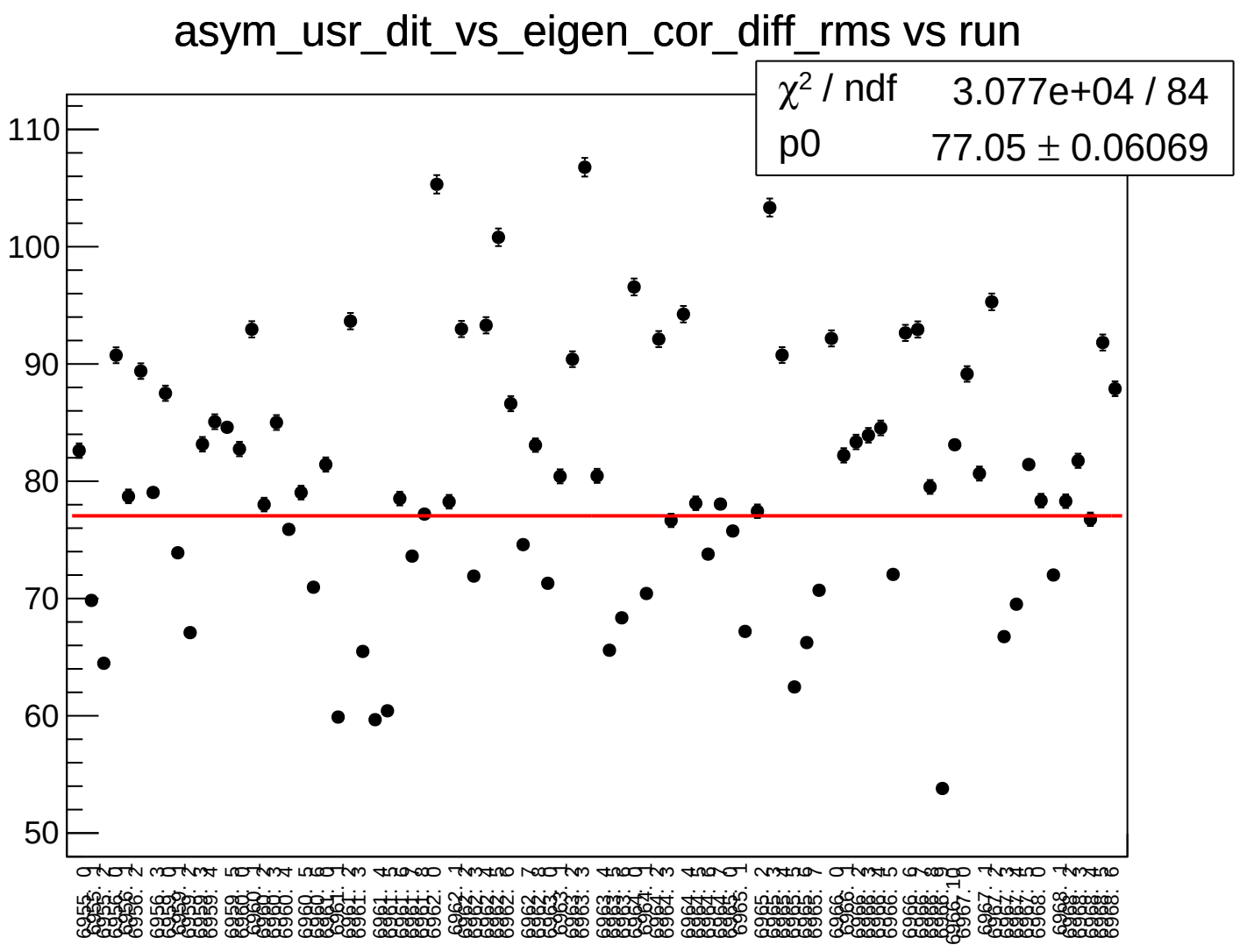

pull1D
Entries 85
Mean −0.07272
Std Dev 0.905

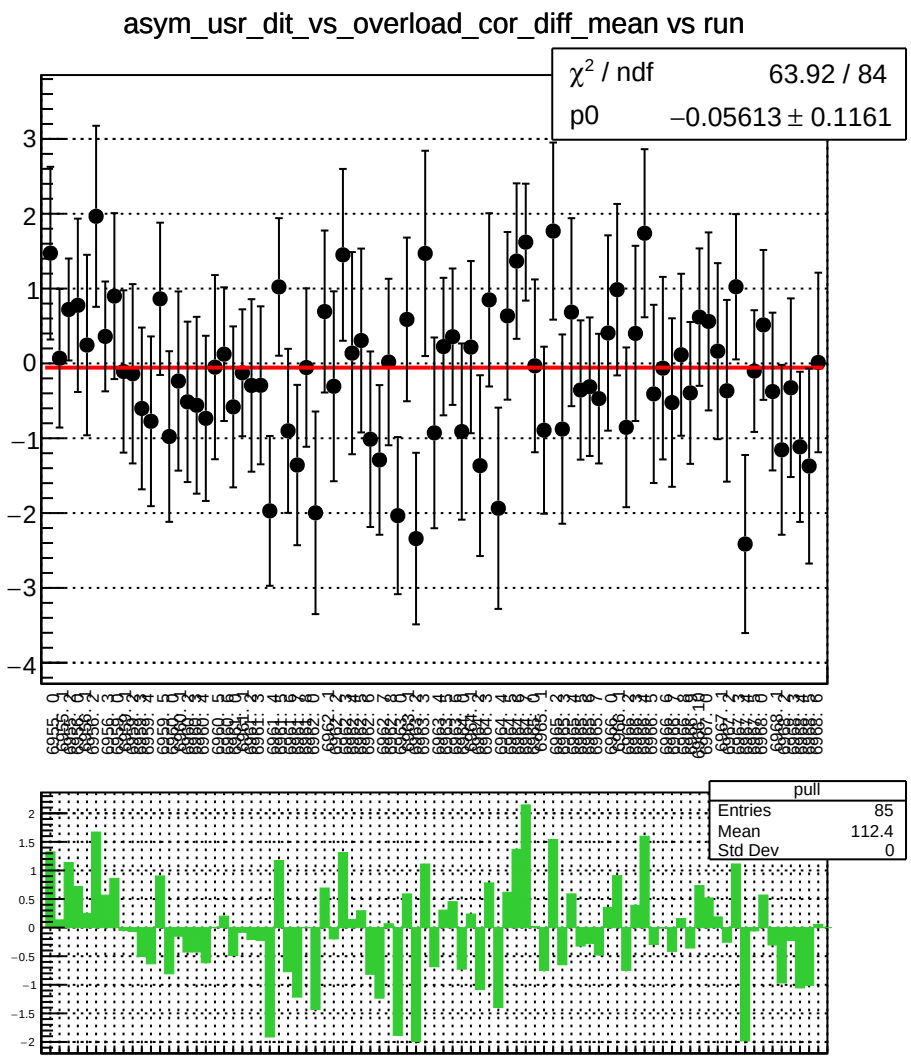

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.84e+05 / 84
p0 5.344e−11 ± 4.965e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

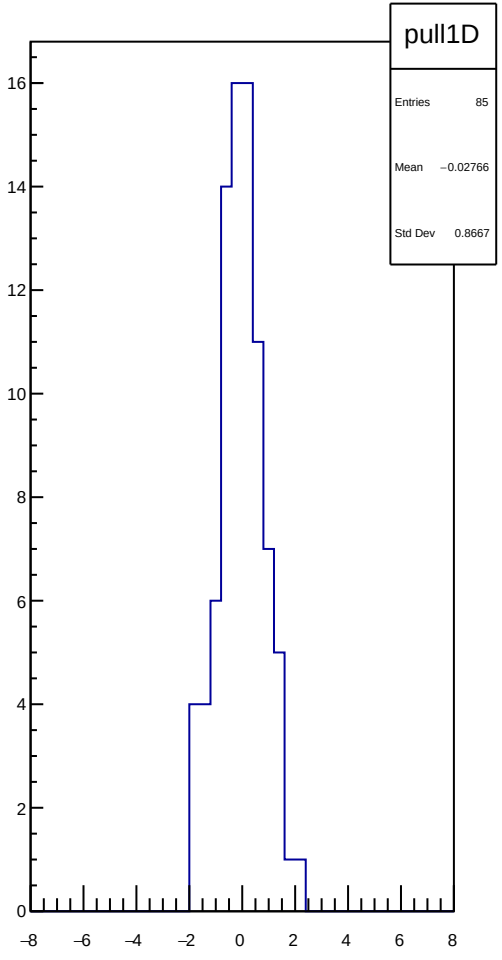

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 64.05 / 84
p0 −0.1197 ± 0.08583
pull
Entries 85
Mean 198.6
Std Dev 0
pull1D
Entries 85
Mean −0.01557
Std Dev 0.8679

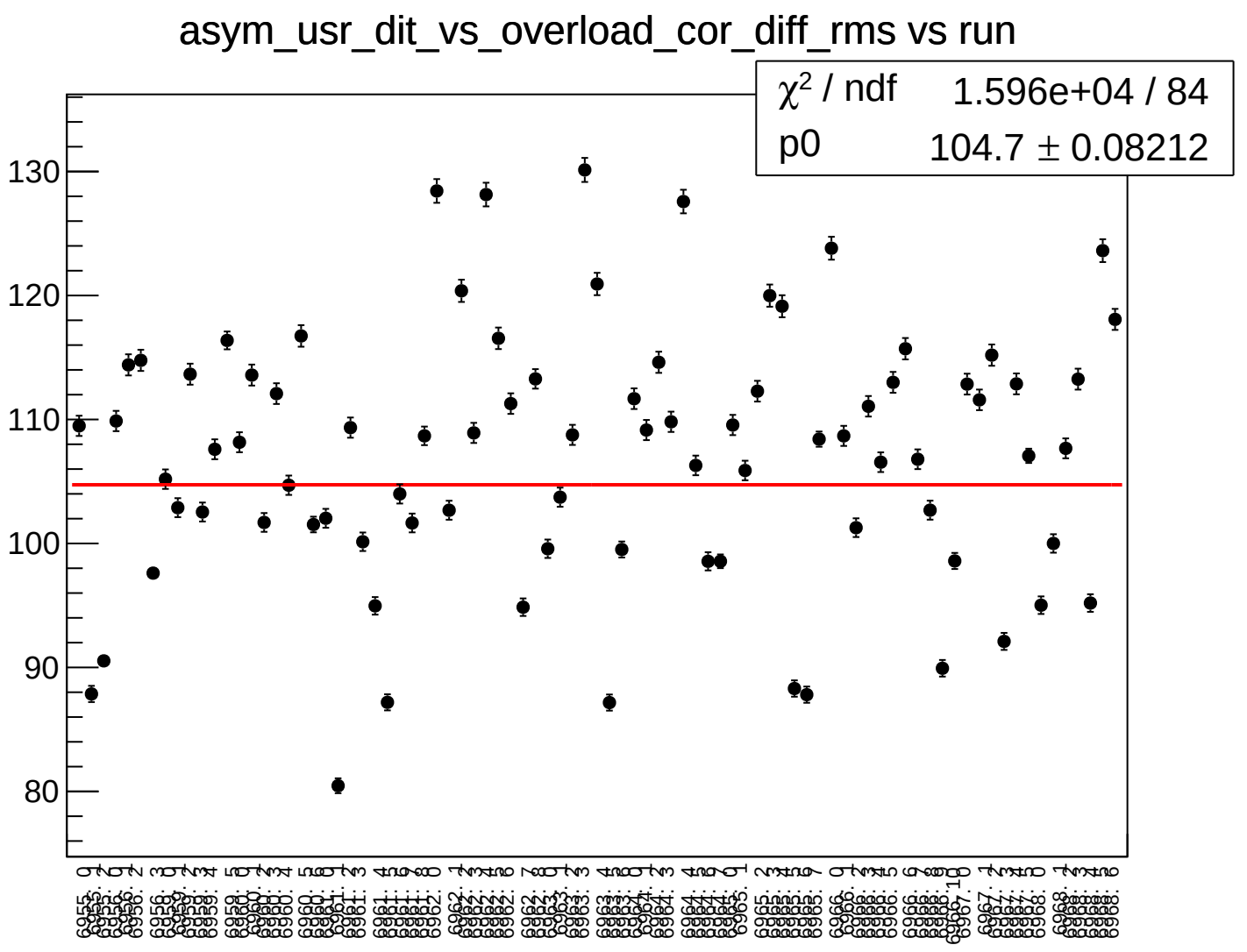

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 3.077e+04 / 84
p0 77.05 ± 0.06069
110
100
90
80
70
60
50

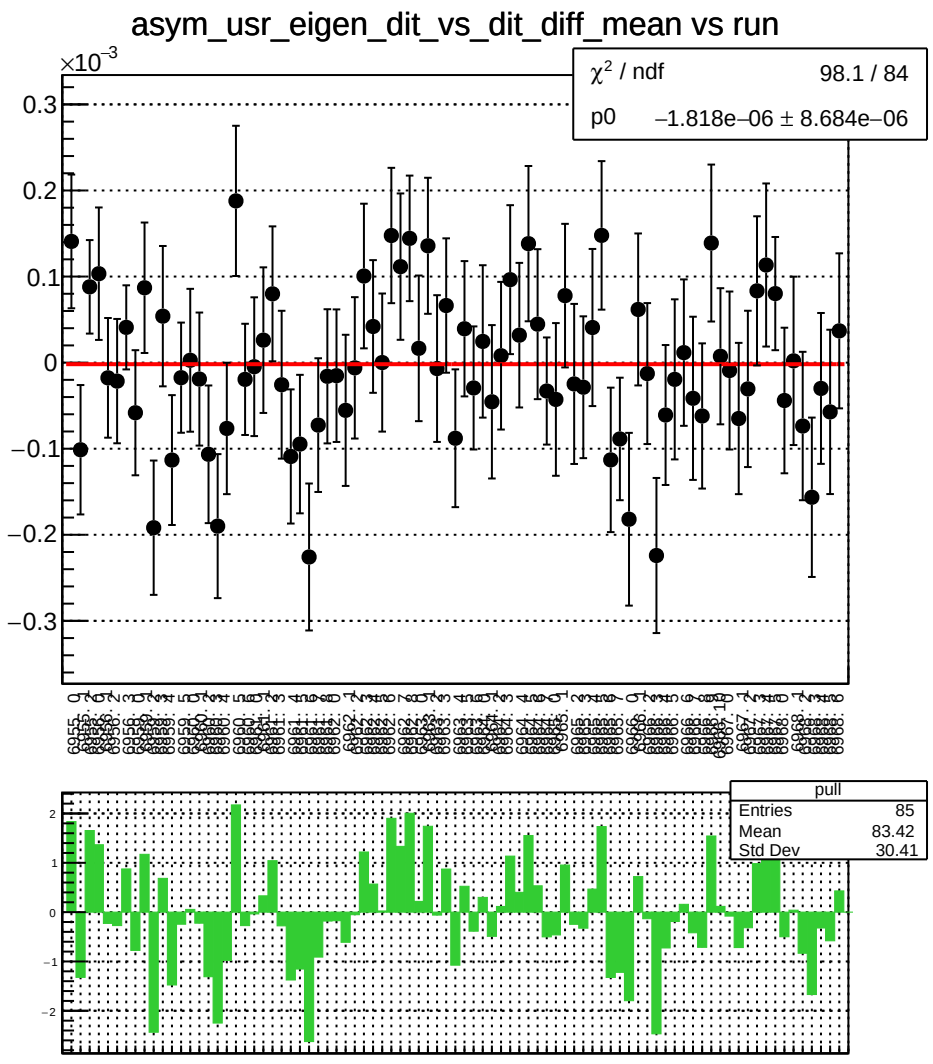

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.05 / 84
p0 −0.1197 ± 0.08583
pull
Entries 85
Mean 198.6
Std Dev 0
pull1D
Entries 85
Mean −0.01557
Std Dev 0.8679

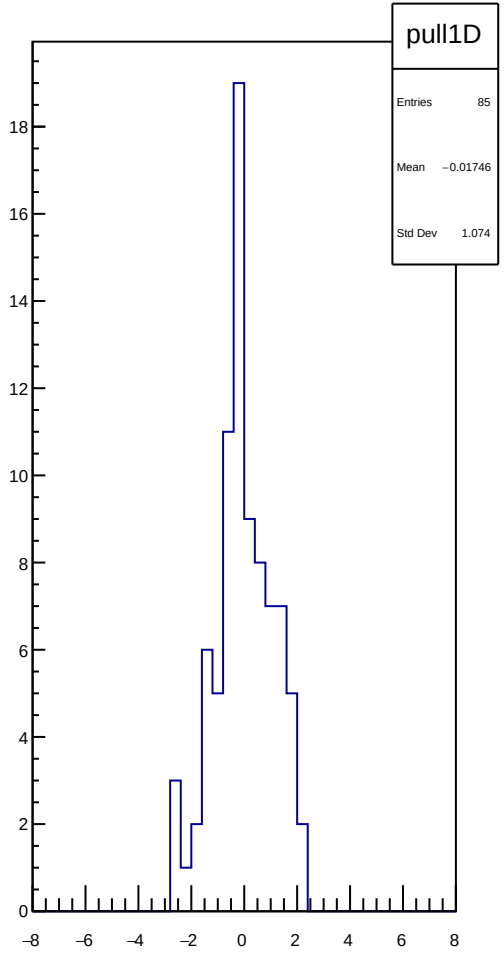

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.077e+04 / 84
p0 77.05 ± 0.06069
110
100
90
80
70
60
50

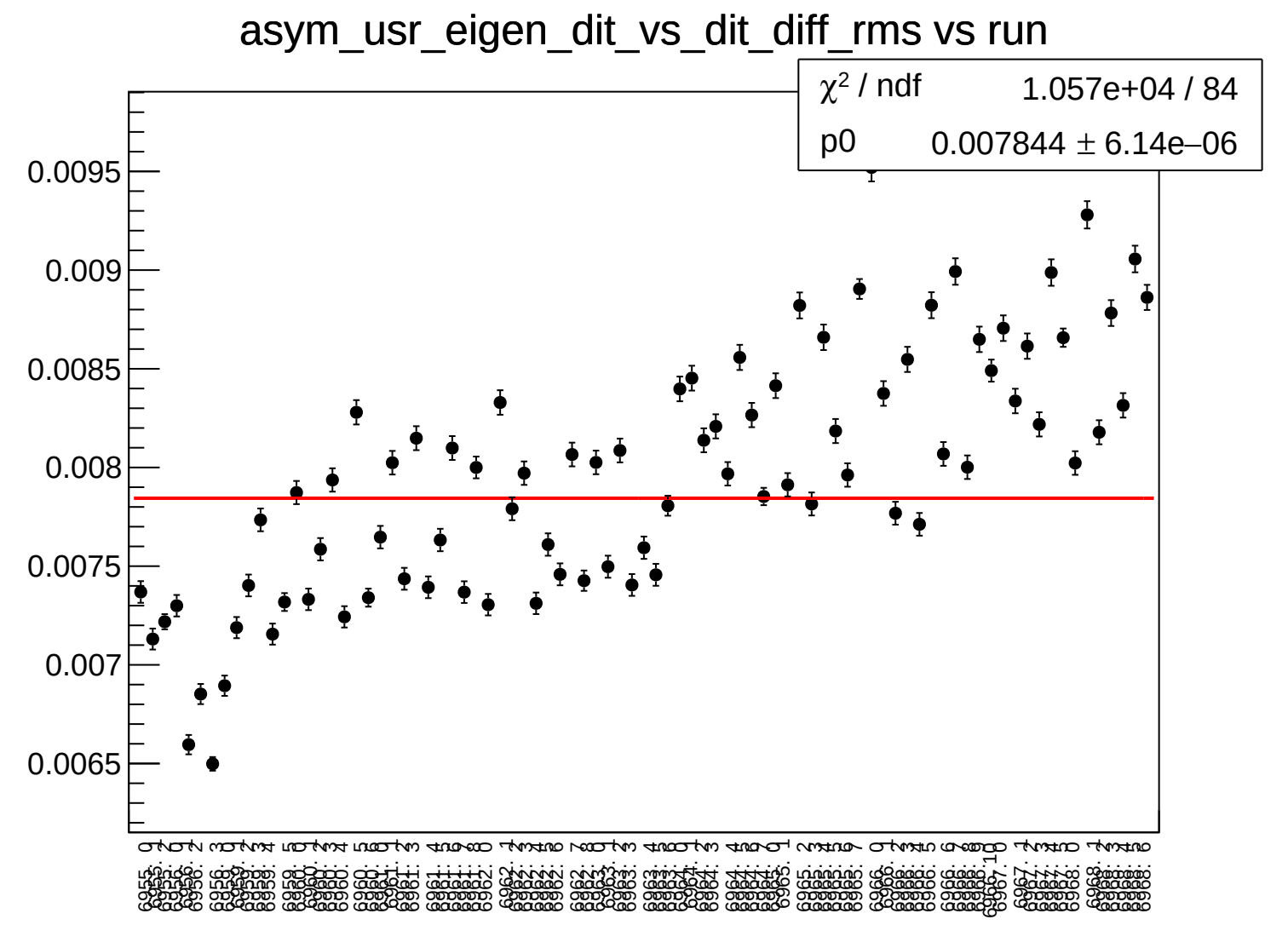

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 63.92 / 84
p0 −0.05613 ± 0.1161
pull
Entries 85
Mean 112.4
Std Dev 0

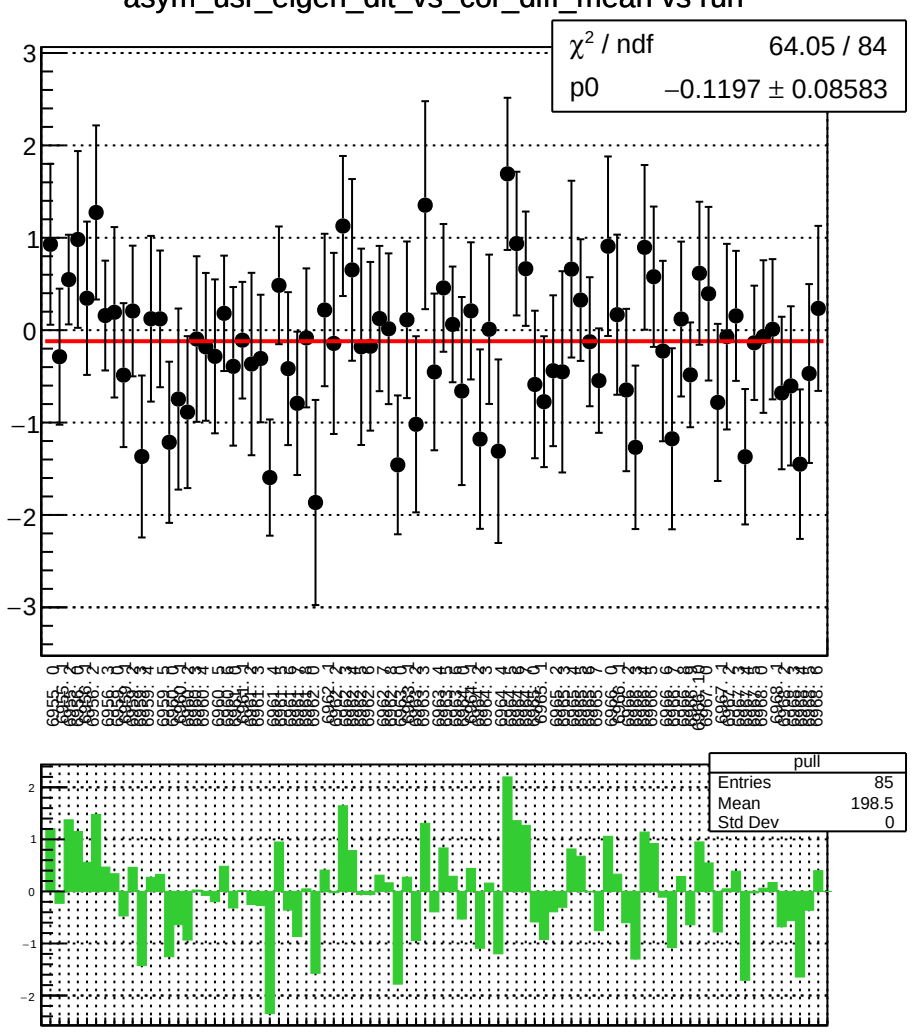

pull1D
Entries 85
Mean −0.02766
Std Dev 0.8667

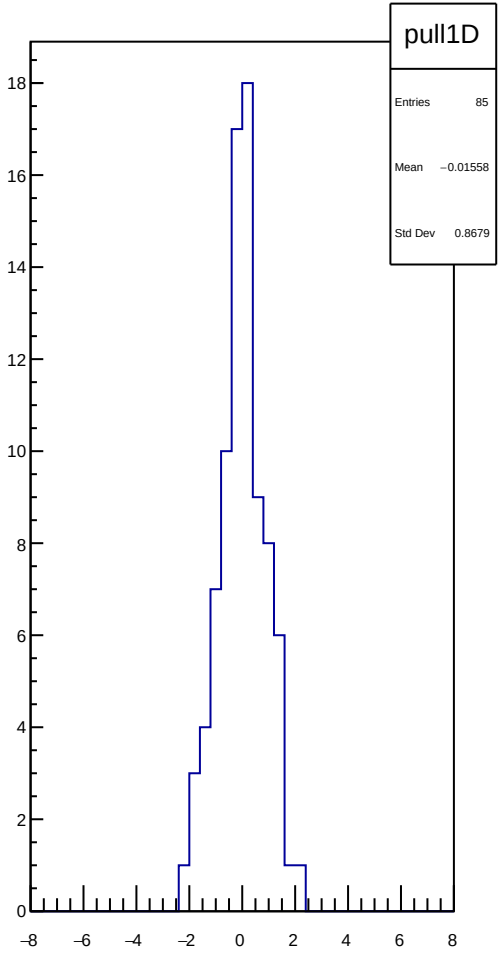

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.596e+04 / 84
p0 104.7 ± 0.08212
130
120
110
100
90
80

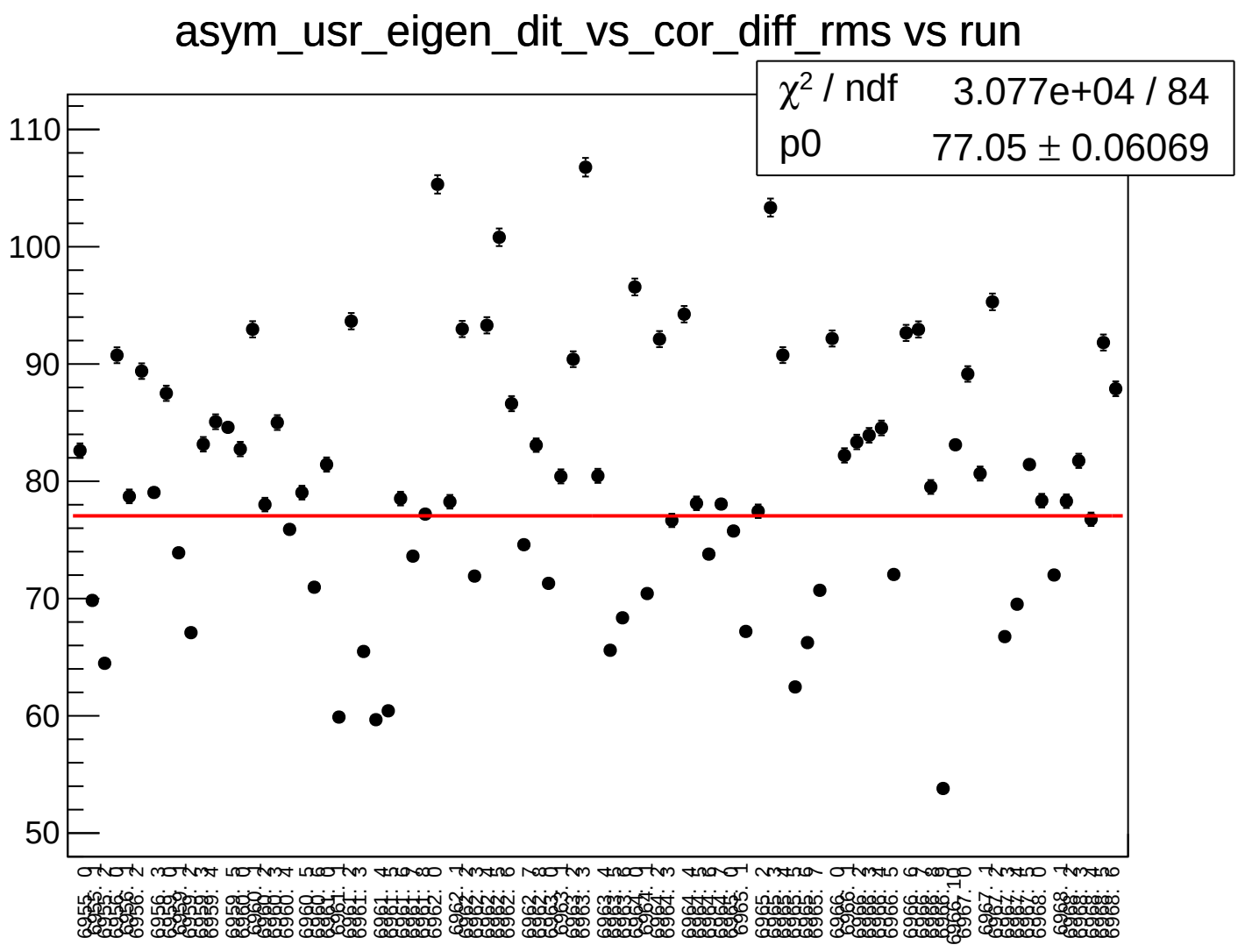

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.1 / 84
p0 −1.818e−06 ± 8.684e−06
pull
Entries 85
Mean 83.42
Std Dev 30.41

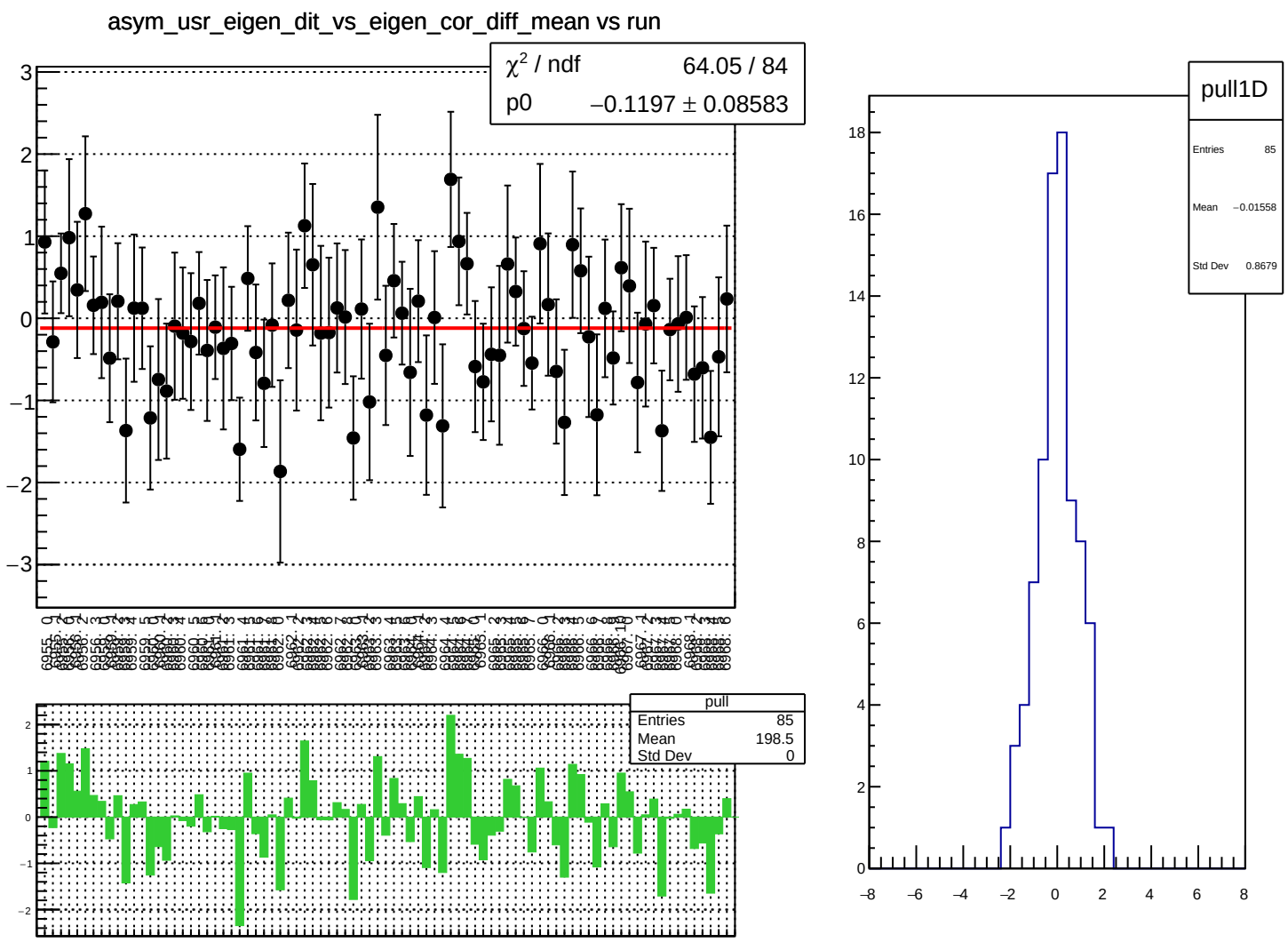

pull1D
Entries 85
Mean −0.01746
Std Dev 1.074

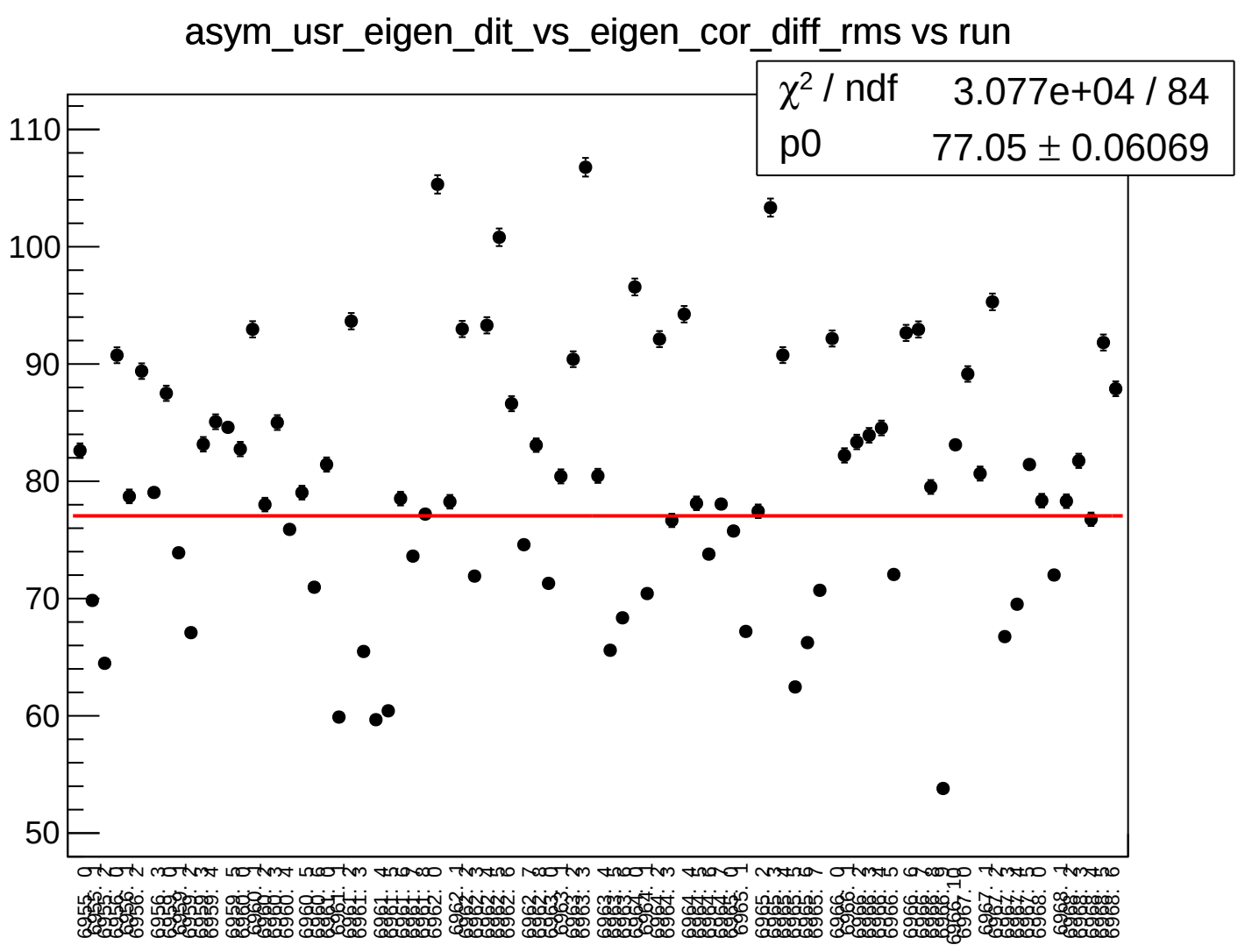

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.057e+04 / 84
p0 0.007844 ± 6.14e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

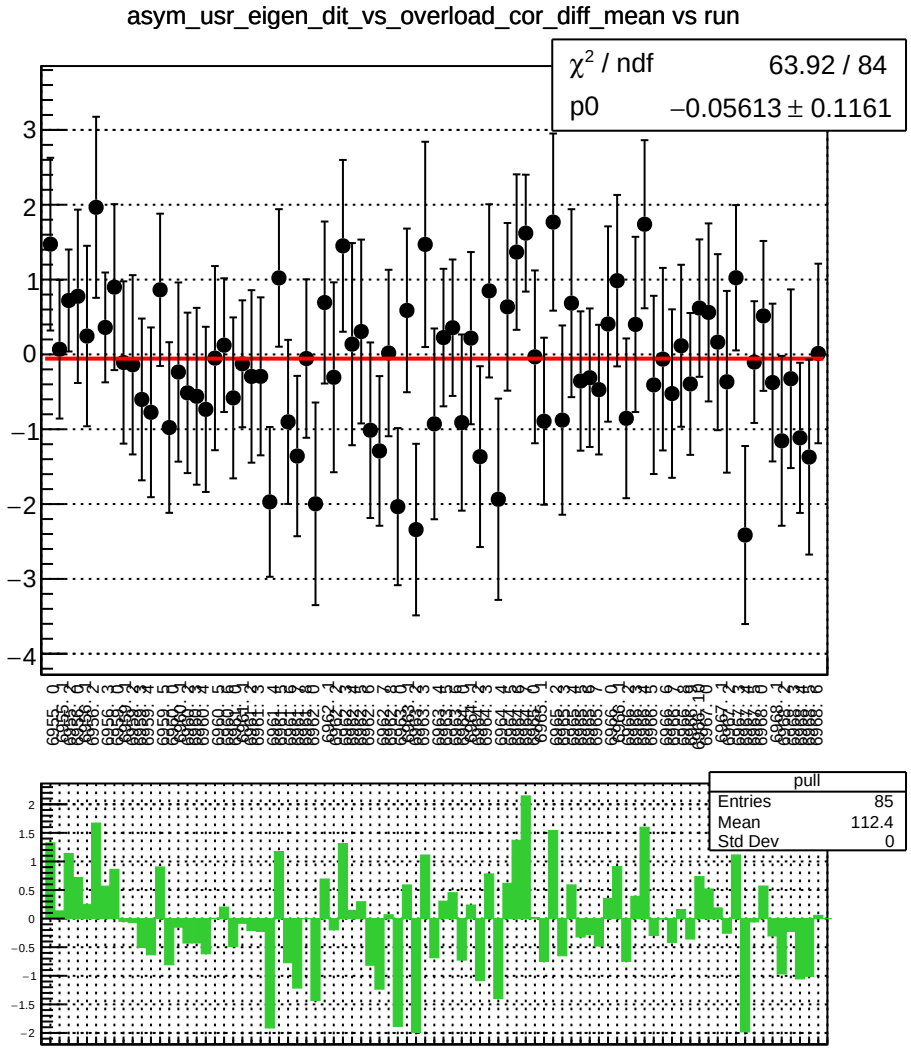

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.05 / 84
p0 −0.1197 ± 0.08583
pull
Entries 85
Mean 198.5
Std Dev 0

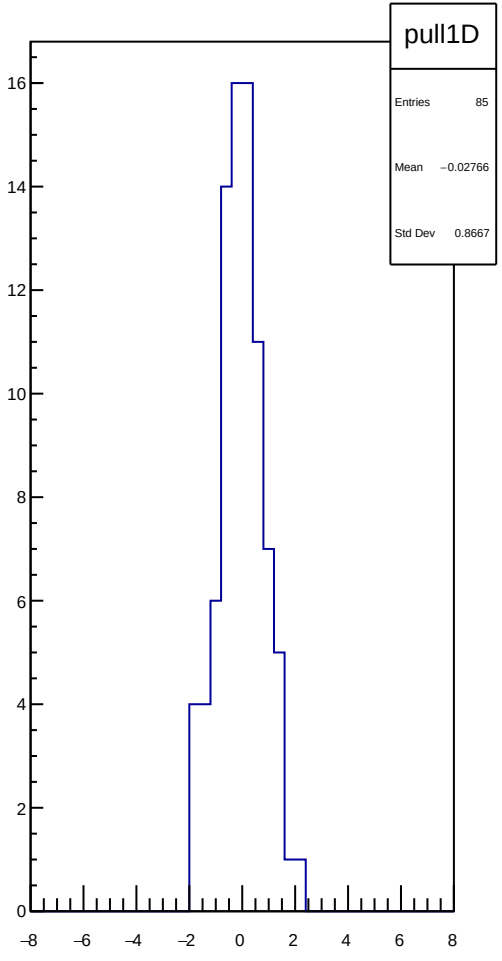

pull1D
Entries 85
Mean −0.01558
Std Dev 0.8679

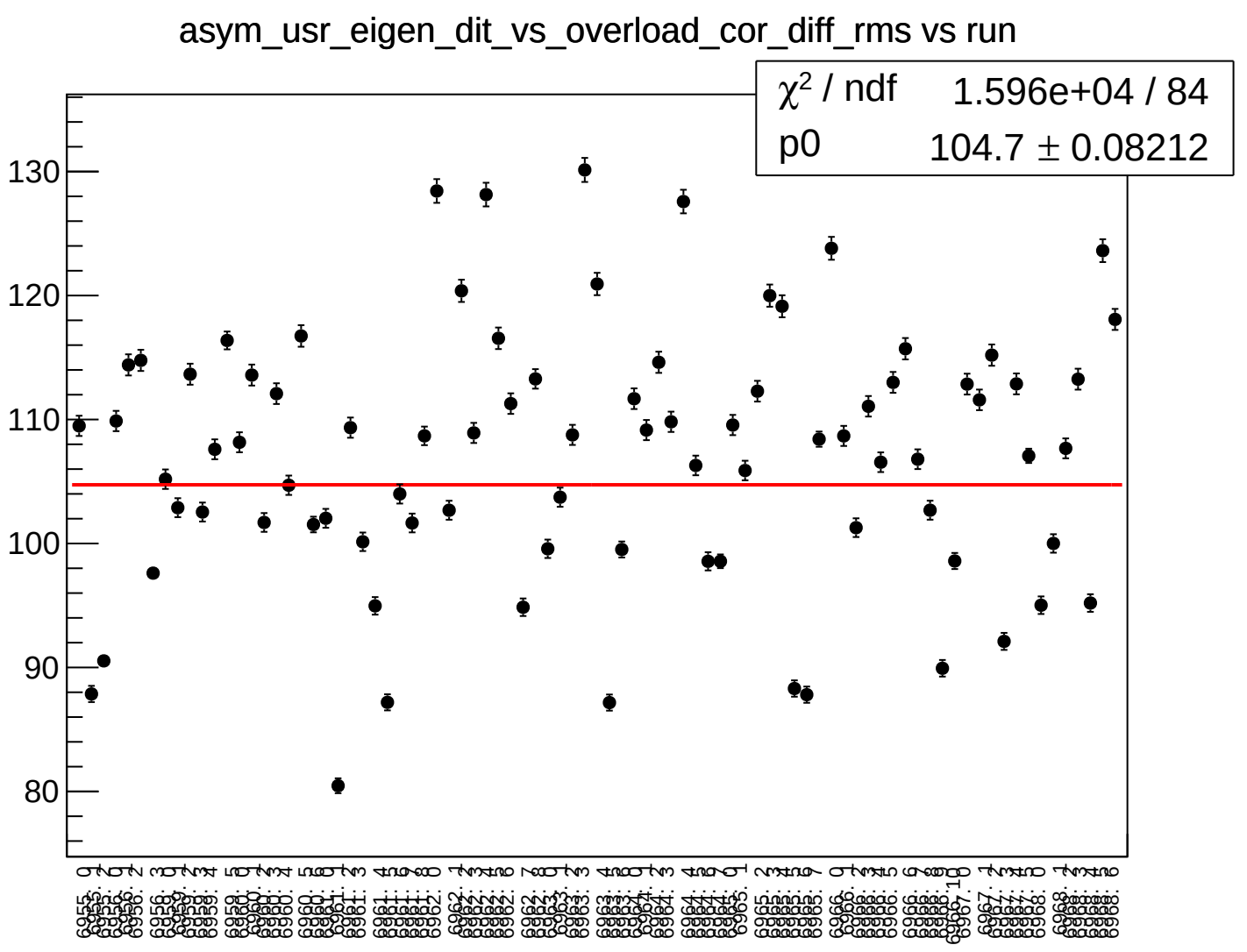

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.077e+04 / 84
p0 77.05 ± 0.06069
110
100
90
80
70
60
50

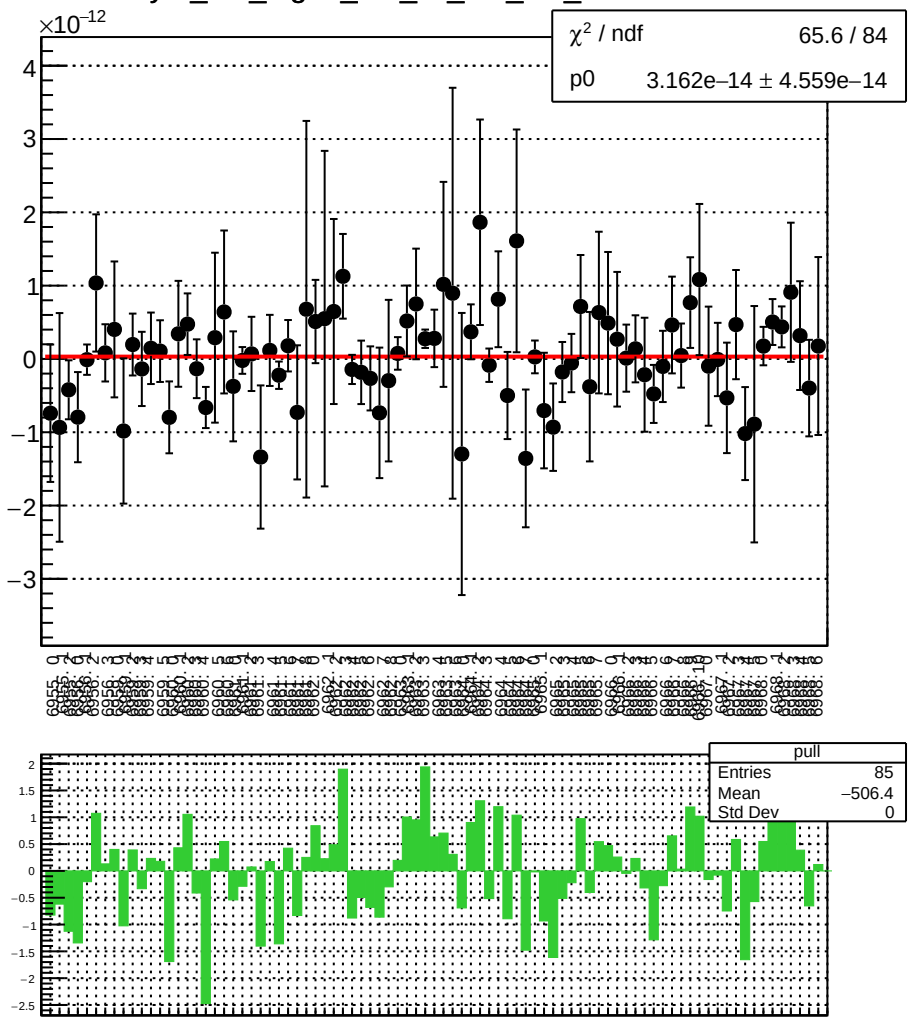

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.05 / 84
p0 −0.1197 ± 0.08583
pull
Entries 85
Mean 198.5
Std Dev 0
pull1D
Entries 85
Mean −0.01558
Std Dev 0.8679

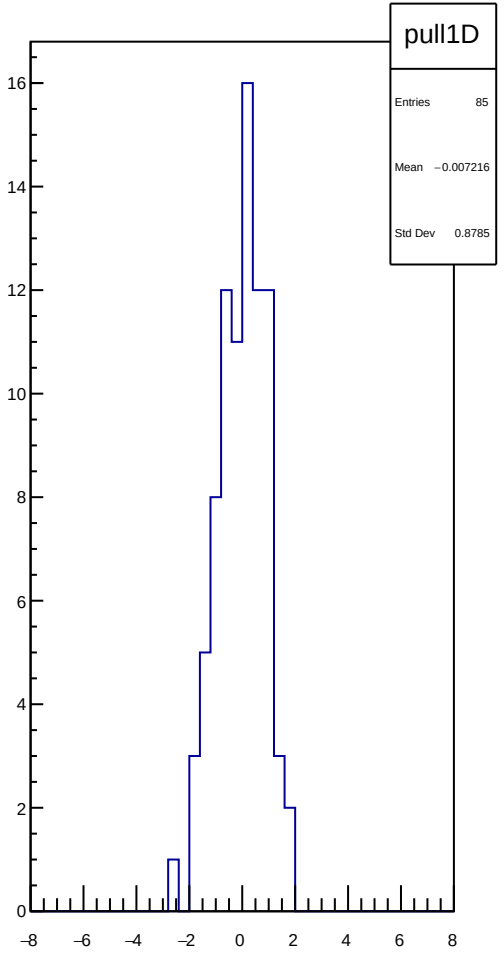

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.077e+04 / 84
p0 77.05 ± 0.06069
110
100
90
80
70
60
50

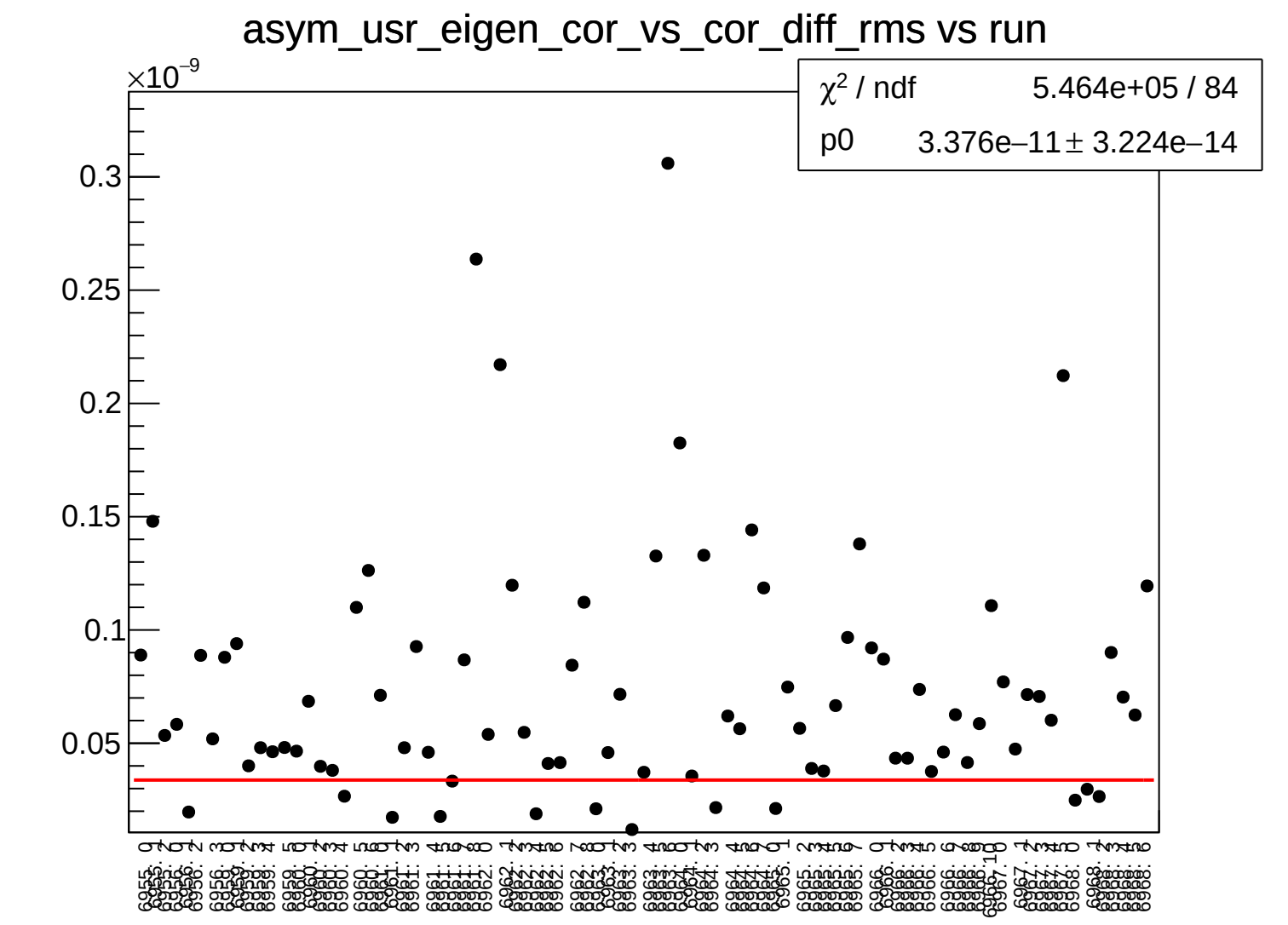

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 63.92 / 84
p0 −0.05613 ± 0.1161
pull
Entries 85
Mean 112.4
Std Dev 0

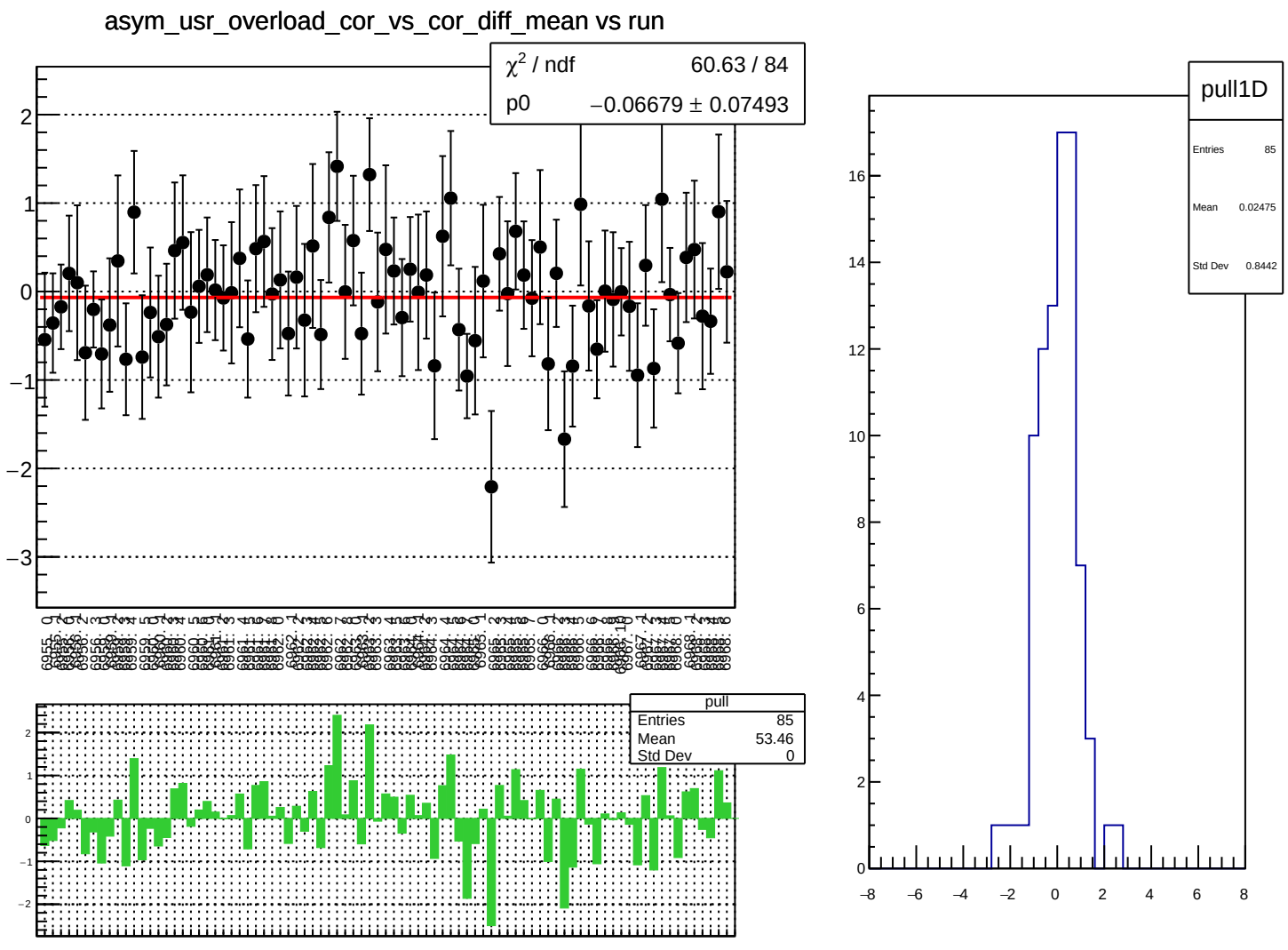

pull1D
Entries 85
Mean −0.02766
Std Dev 0.8667

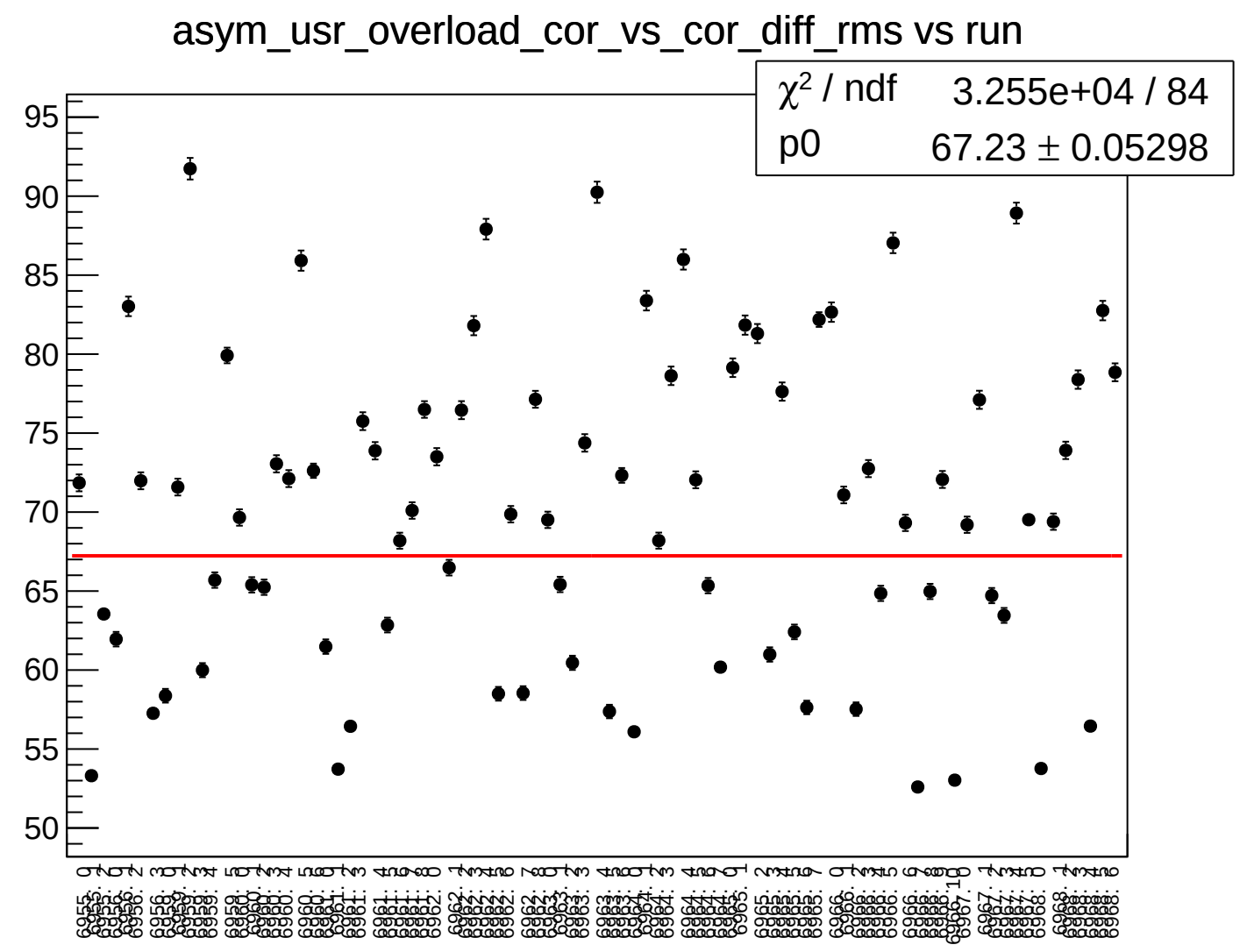

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.596e+04 / 84
p0 104.7 ± 0.08212
130
120
110
100
90
80

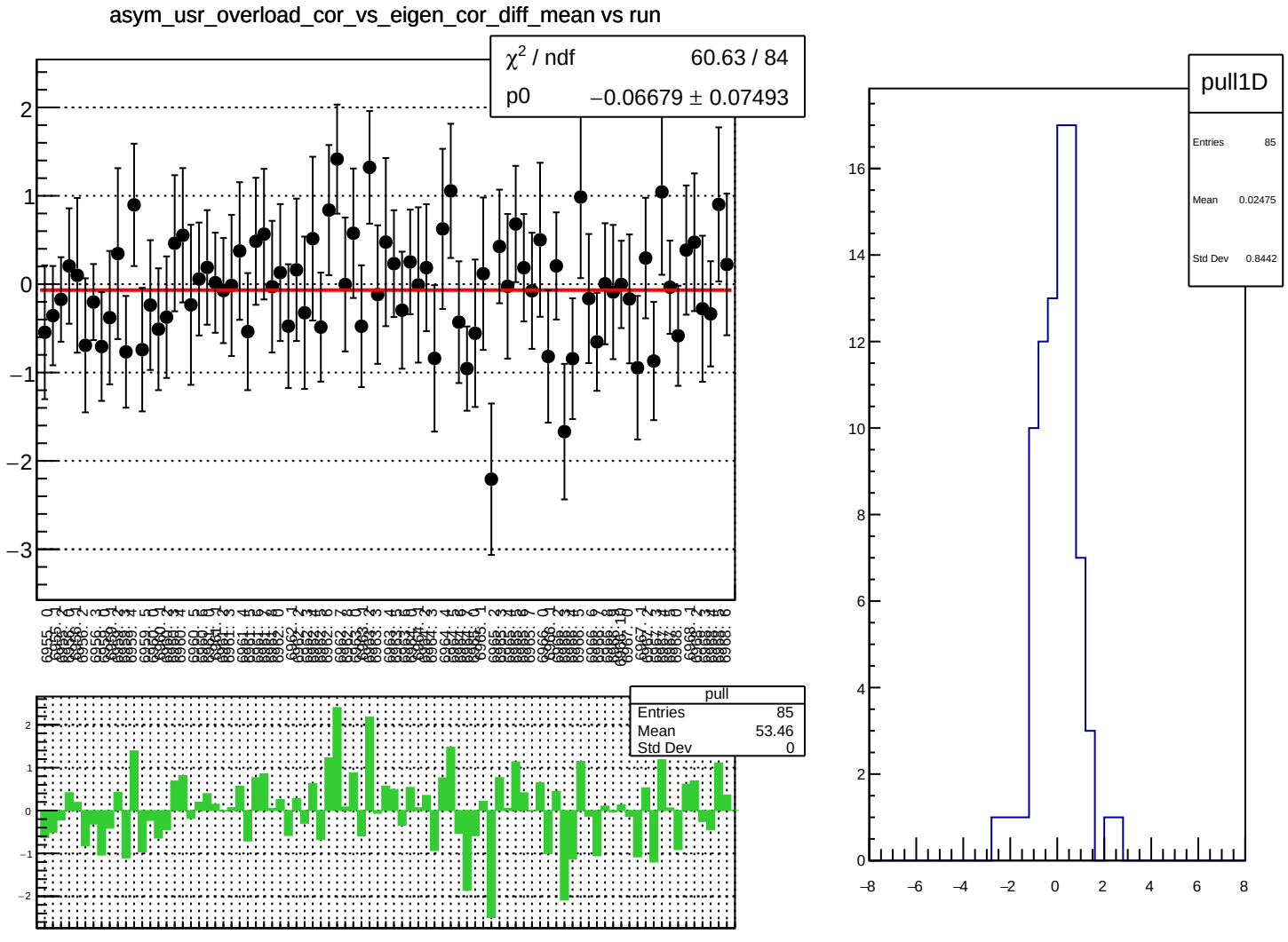

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.6 / 84
p0 3.162e−14 ± 4.559e−14
pull
Entries 85
Mean −506.4
Std Dev 0

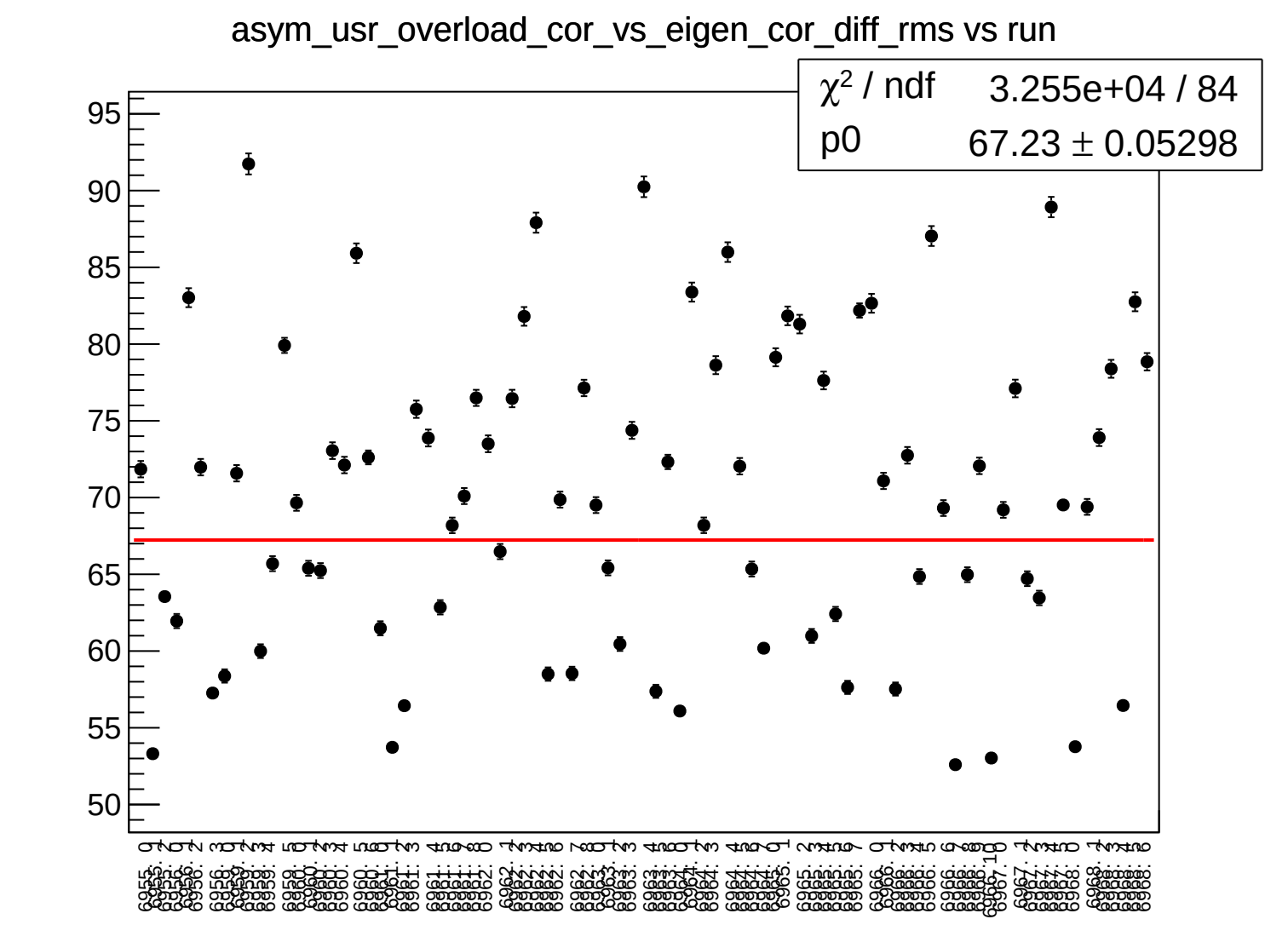

pull1D
Entries 85
Mean −0.007216
Std Dev 0.8785

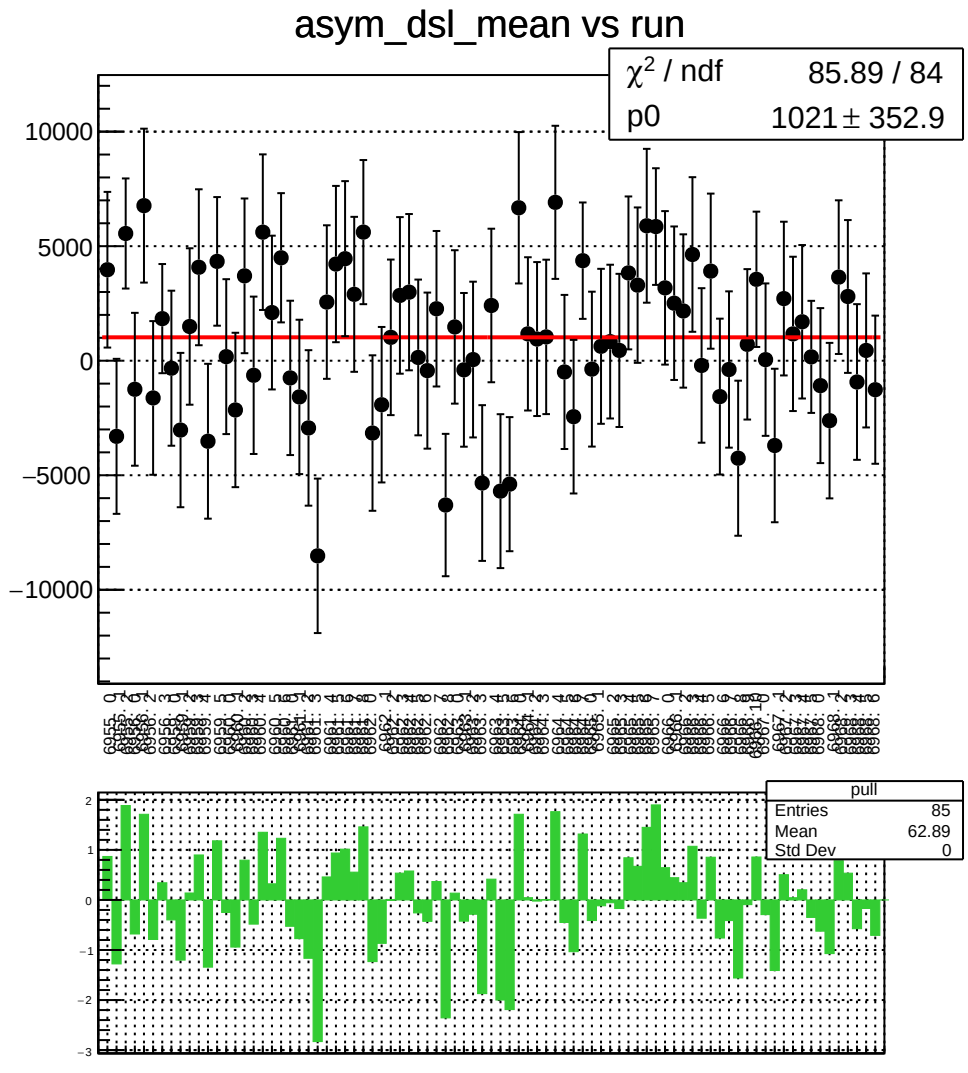

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.464e+05 / 84
p0 3.376e−11 ± 3.224e−14
0.3
0.25
0.2
0.15
0.1
0.05

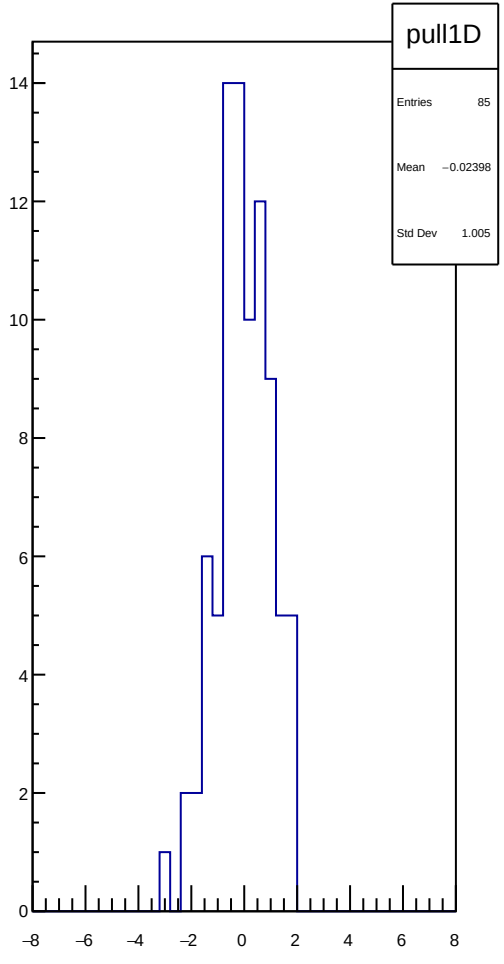

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 60.63 / 84
p0 −0.06679 ± 0.07493
pull
Entries 85
Mean 53.46
Std Dev 0
pull1D
Entries 85
Mean 0.02475
Std Dev 0.8442

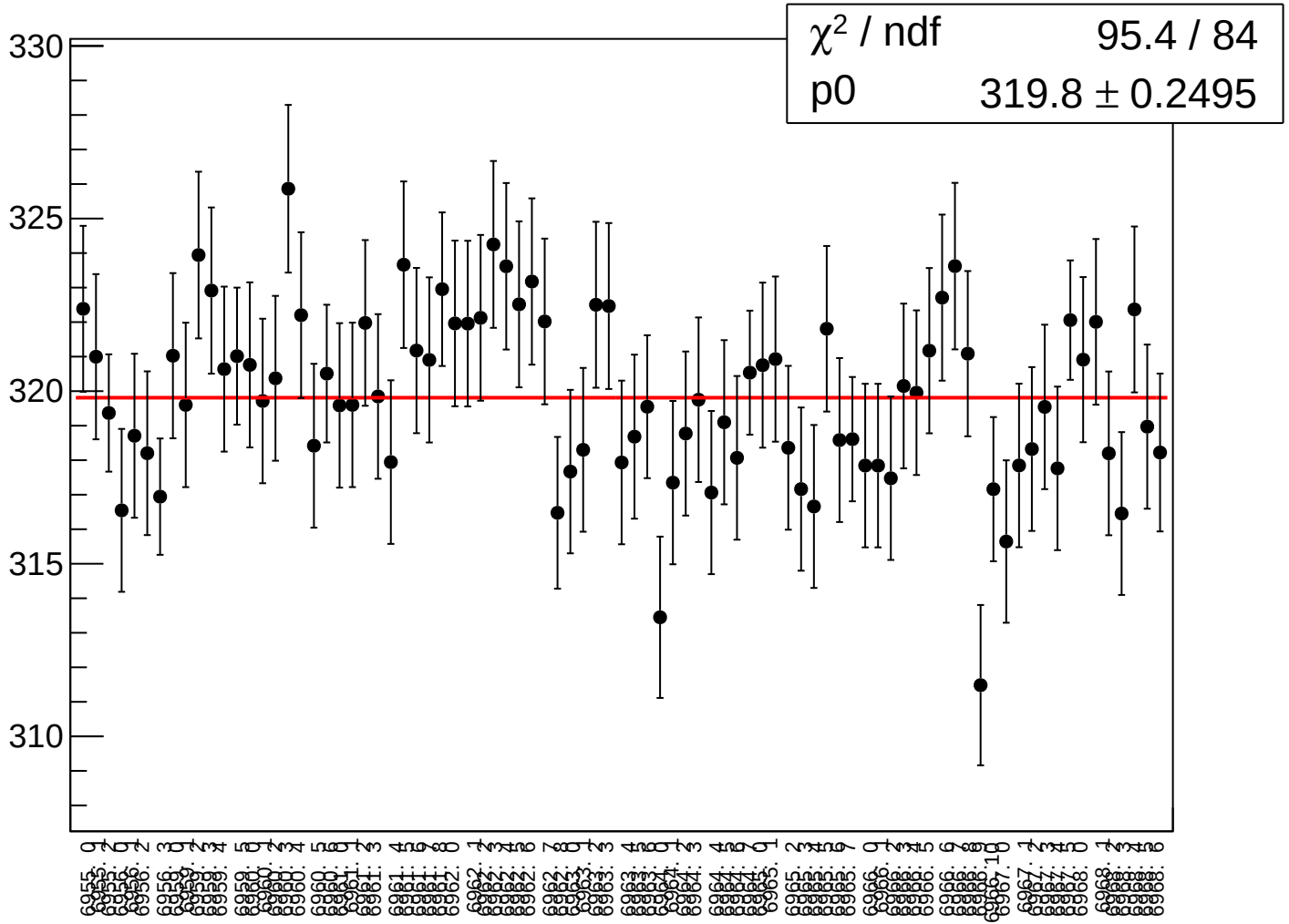

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.255e+04 / 84
p0 67.23 ± 0.05298
95
90
85
80
75
70
65
60
55
50

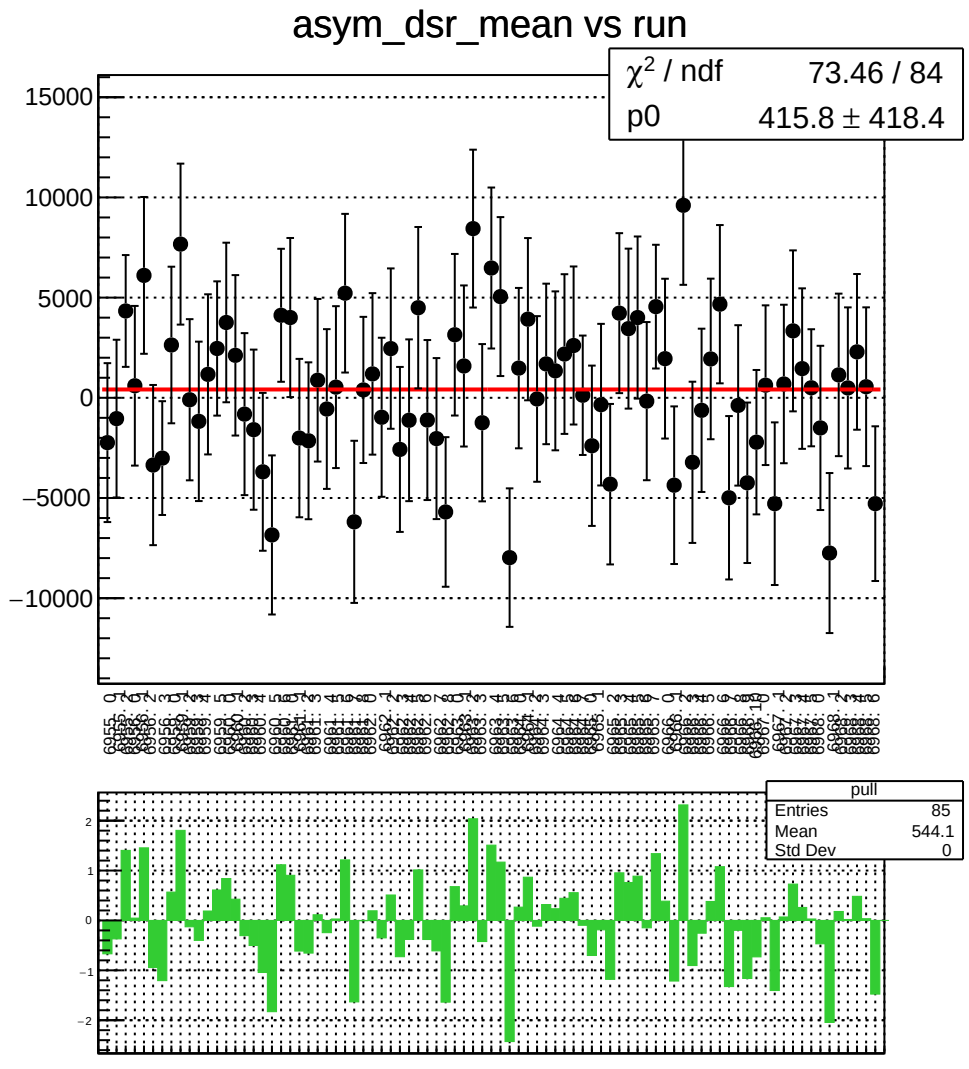

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.63 / 84
p0 −0.06679 ± 0.07493
pull
Entries 85
Mean 53.46
Std Dev 0
pull1D
Entries 85
Mean 0.02475
Std Dev 0.8442

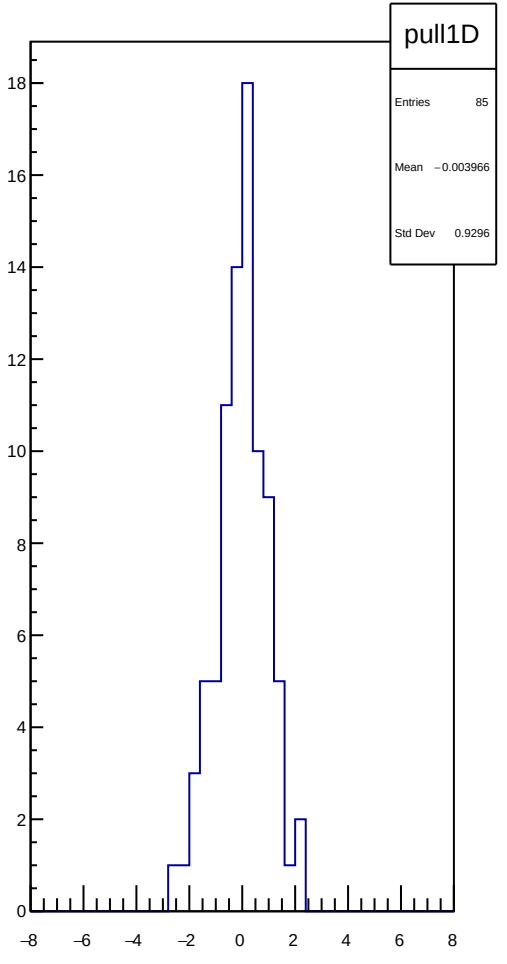

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.255e+04 / 84
p0 67.23 ± 0.05298
95
90
85
80
75
70
65
60
55
50

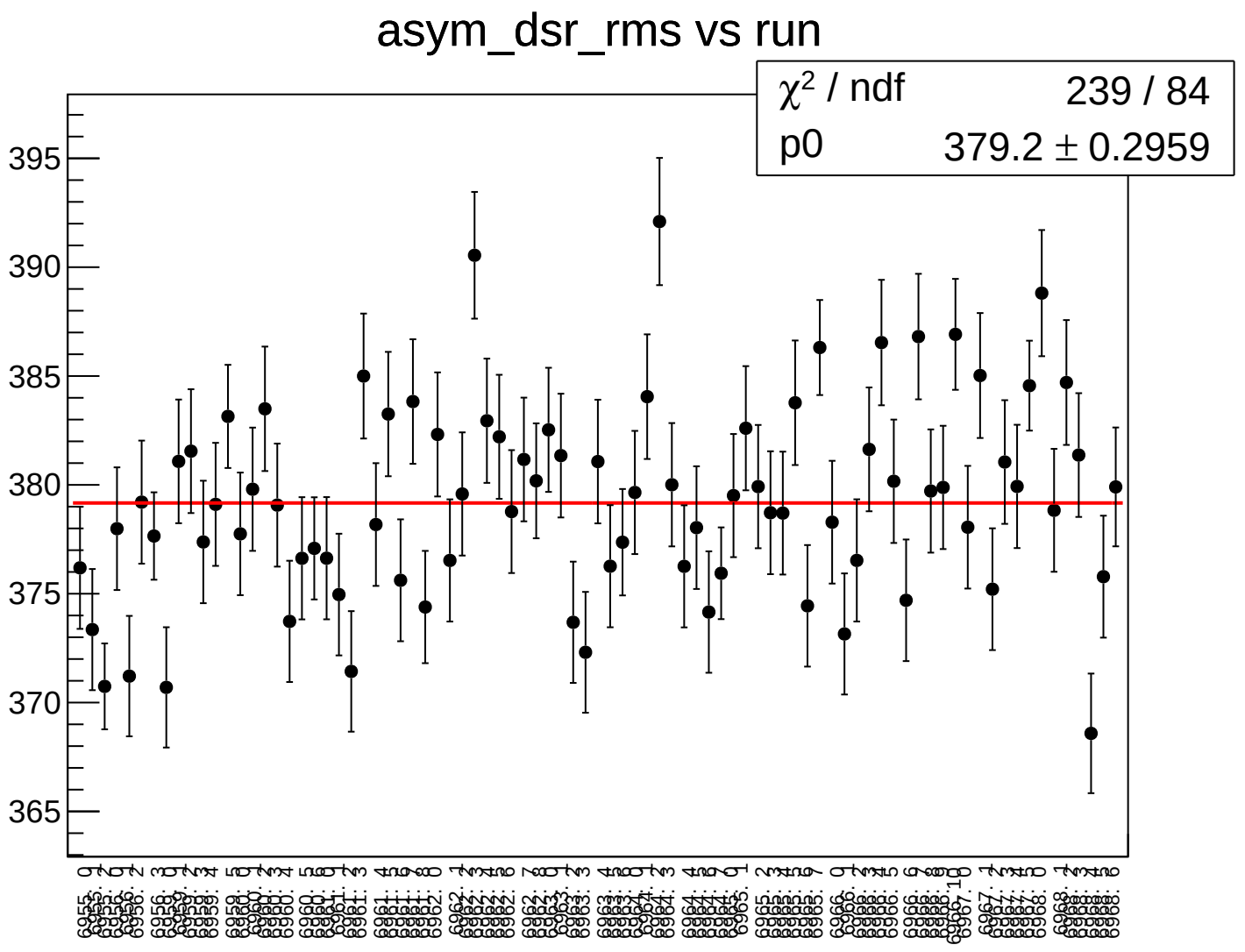

asym_dsl_mean vs run
$\chi^2$ / ndf 85.89 / 84
p0 1021 ± 352.9
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 62.89
Std Dev 0
2
1
0
−1
−2
−3

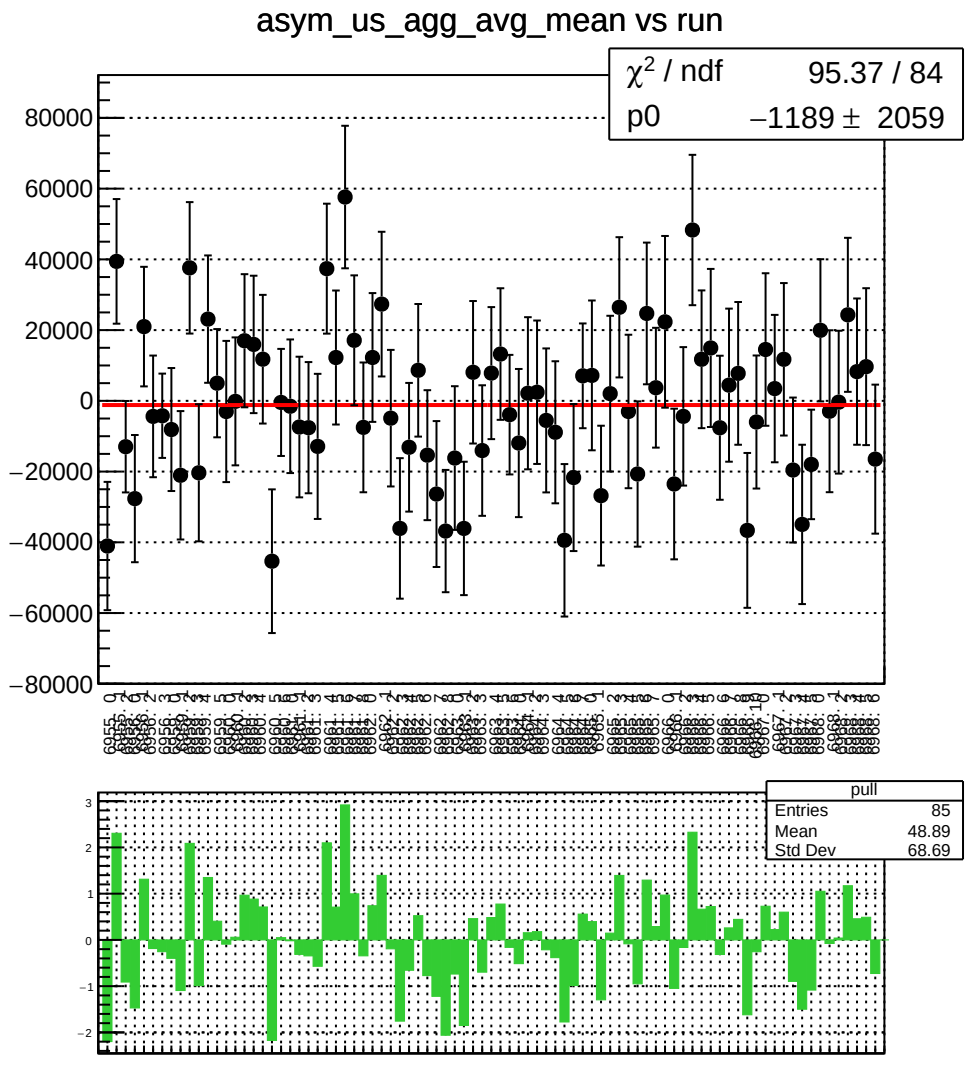

pull1D
Entries 85
Mean −0.02398
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

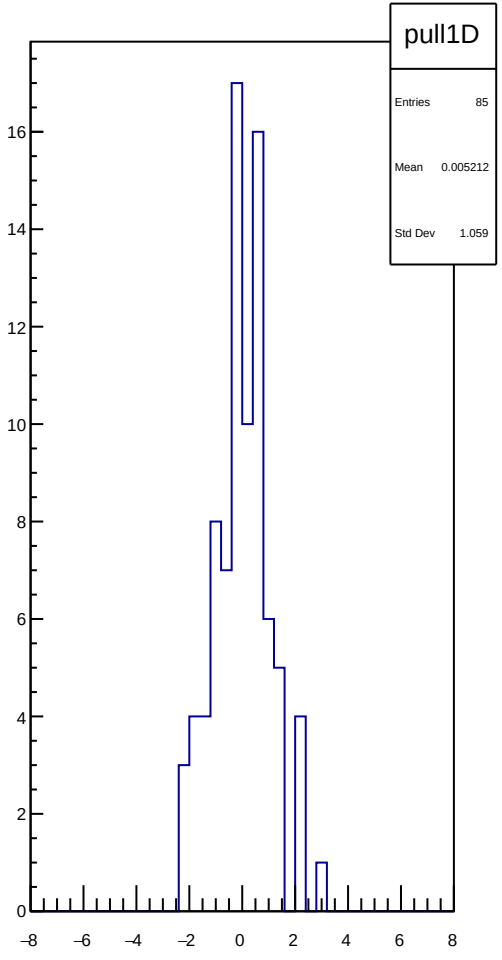

asym_dsl_rms vs run
χ² / ndf 95.4 / 84
p0 319.8 ± 0.2495
330
325
320
315
310

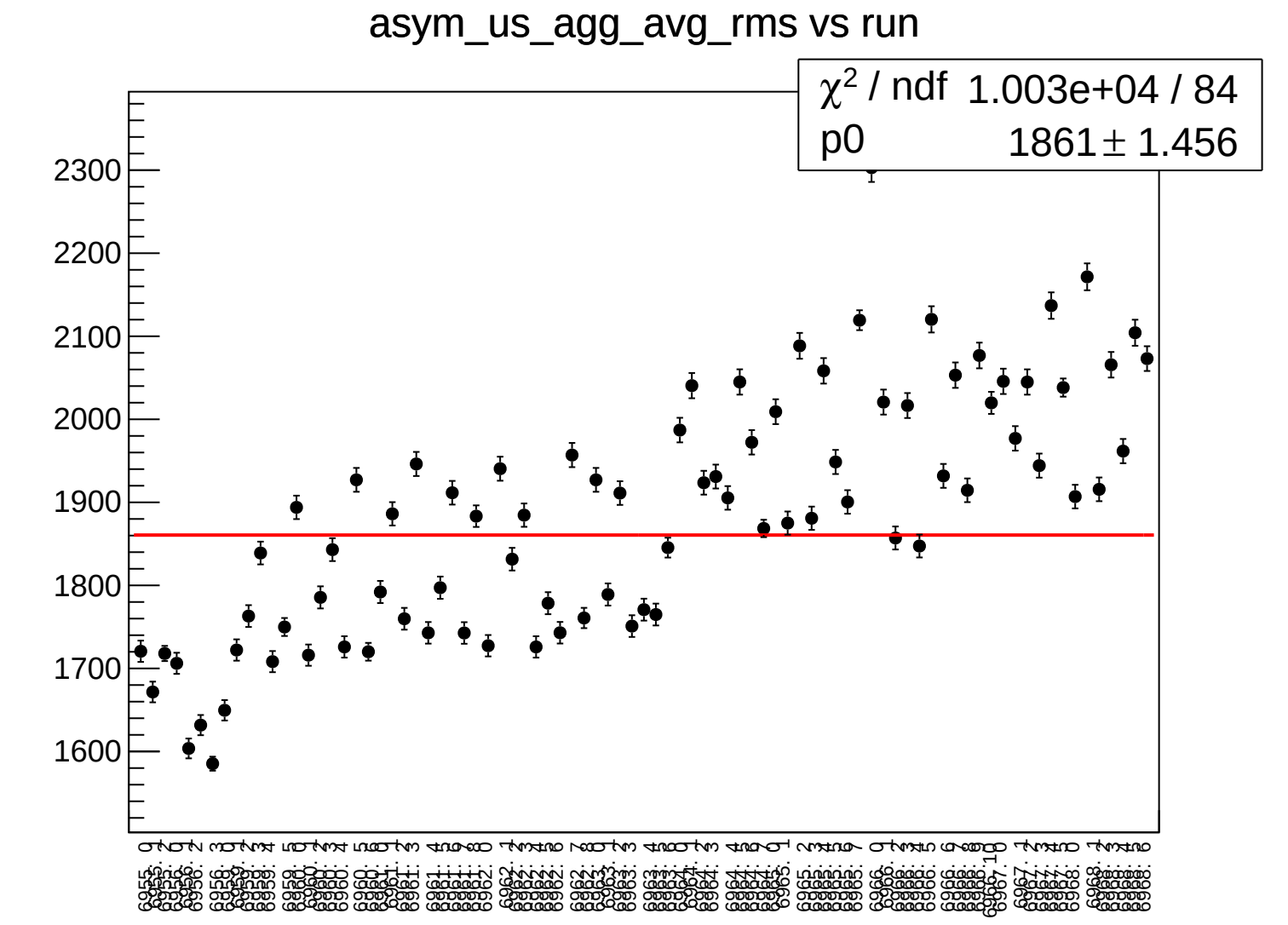

asym_dsr_mean vs run
χ² / ndf 73.46 / 84
p0 415.8 ± 418.4
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 544.1
Std Dev 0
2
1
0
−1
−2

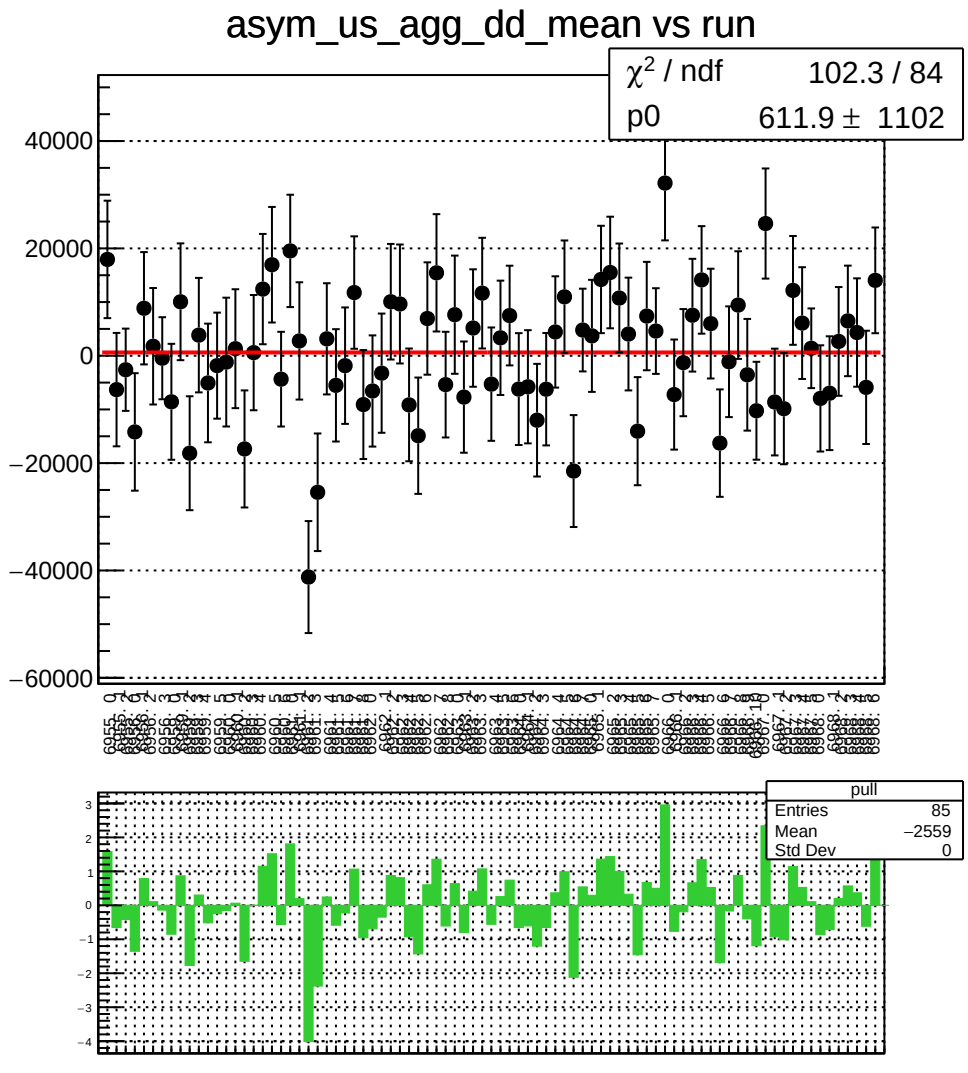

pull1D
Entries 85
Mean −0.003966
Std Dev 0.9296
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

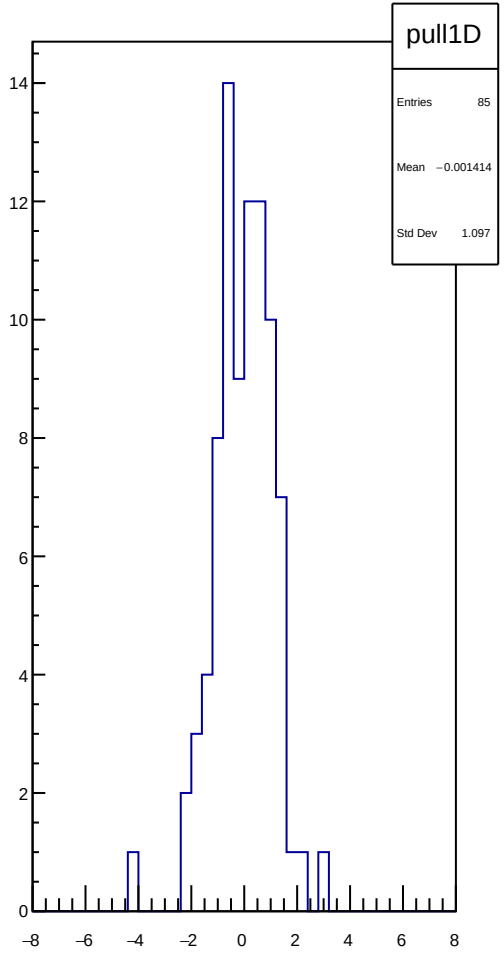

asym_dsr_rms vs run
$\chi^2$ / ndf 239 / 84
p0 379.2 ± 0.2959
395
390
385
380
375
370
365

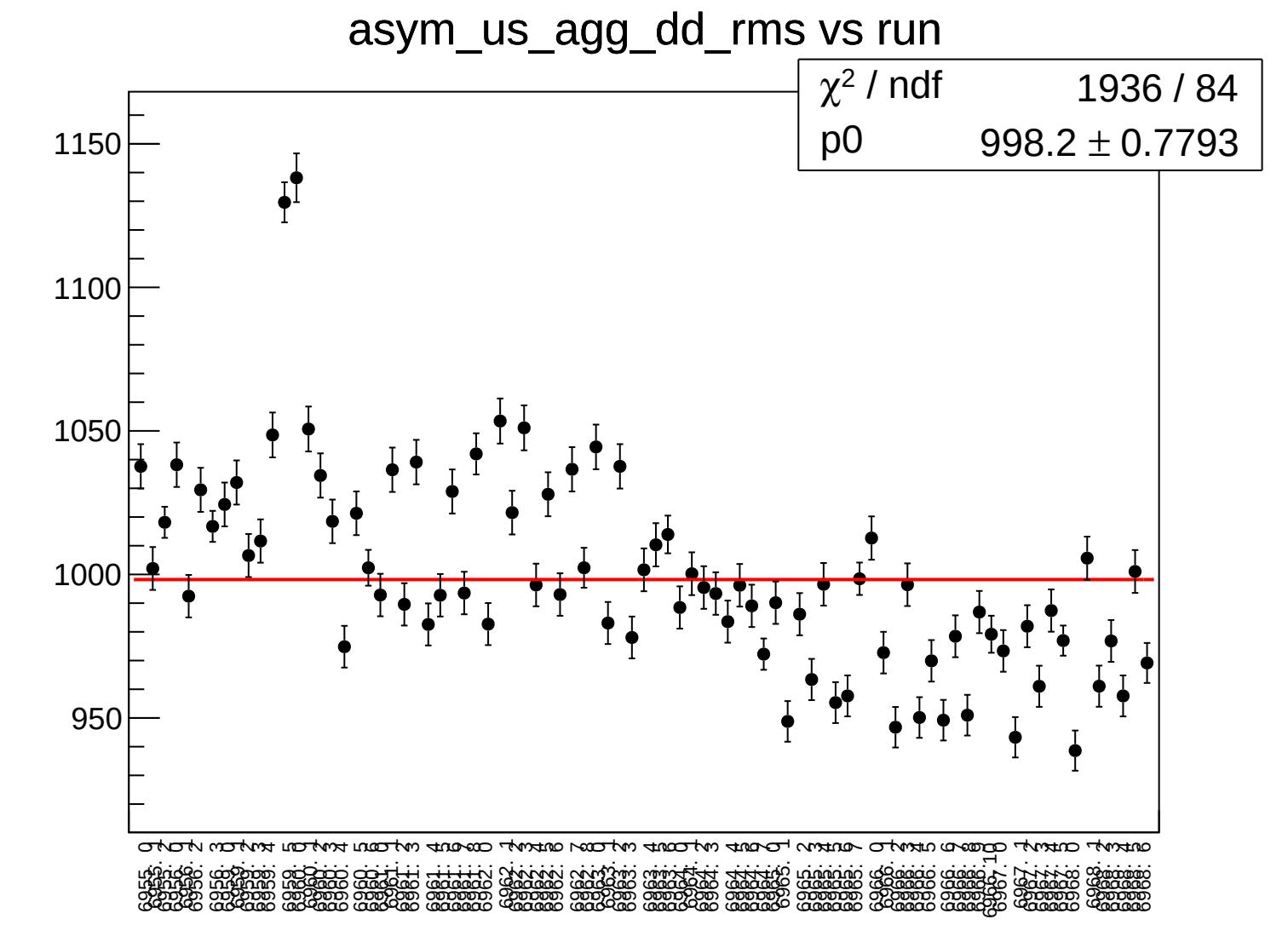

asym_us_agg_avg_mean vs run
χ² / ndf 95.37 / 84
p0 −1189 ± 2059
pull
Entries 85
Mean 48.89
Std Dev 68.69

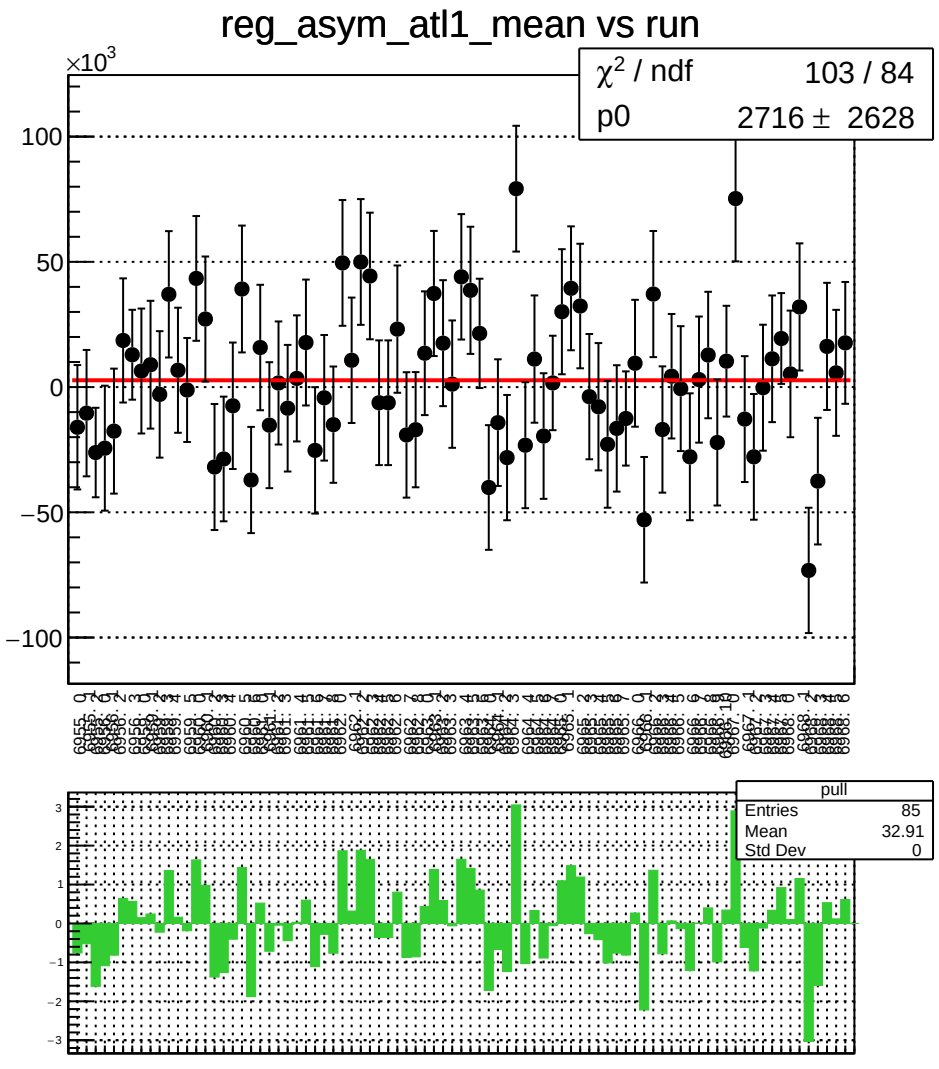

pull1D
Entries 85
Mean 0.005212
Std Dev 1.059

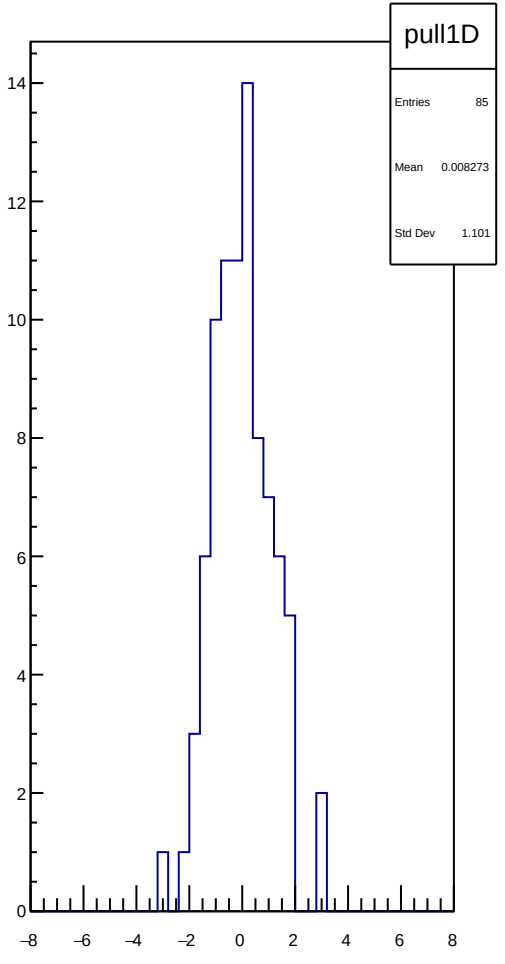

asym_us_agg_avg_rms vs run
χ² / ndf 1.003e+04 / 84
p0 1861 ± 1.456
2300
2200
2100
2000
1900
1800
1700
1600

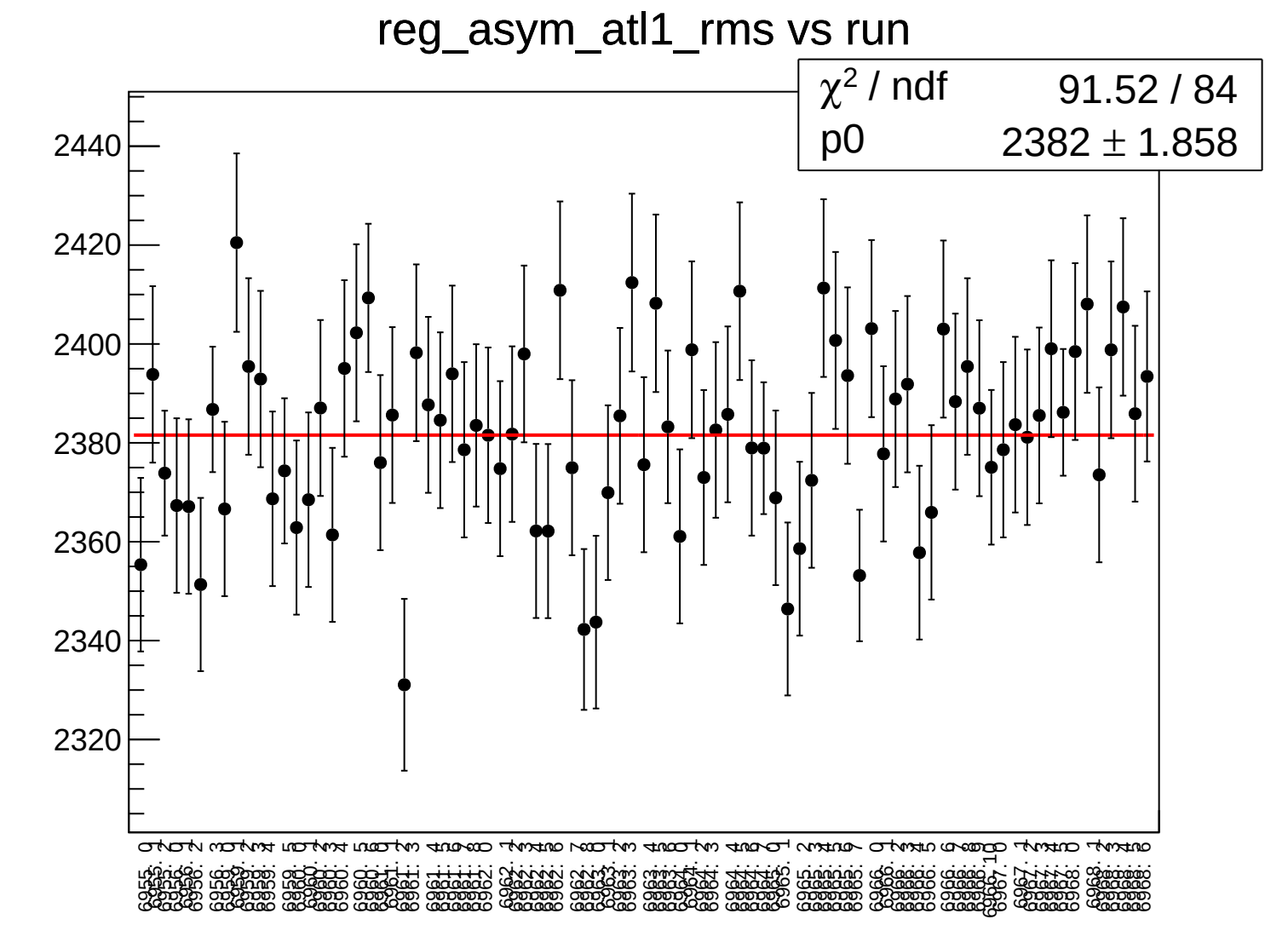

asym_us_agg_dd_mean vs run
χ² / ndf 102.3 / 84
p0 611.9 ± 1102
pull
Entries 85
Mean −2559
Std Dev 0

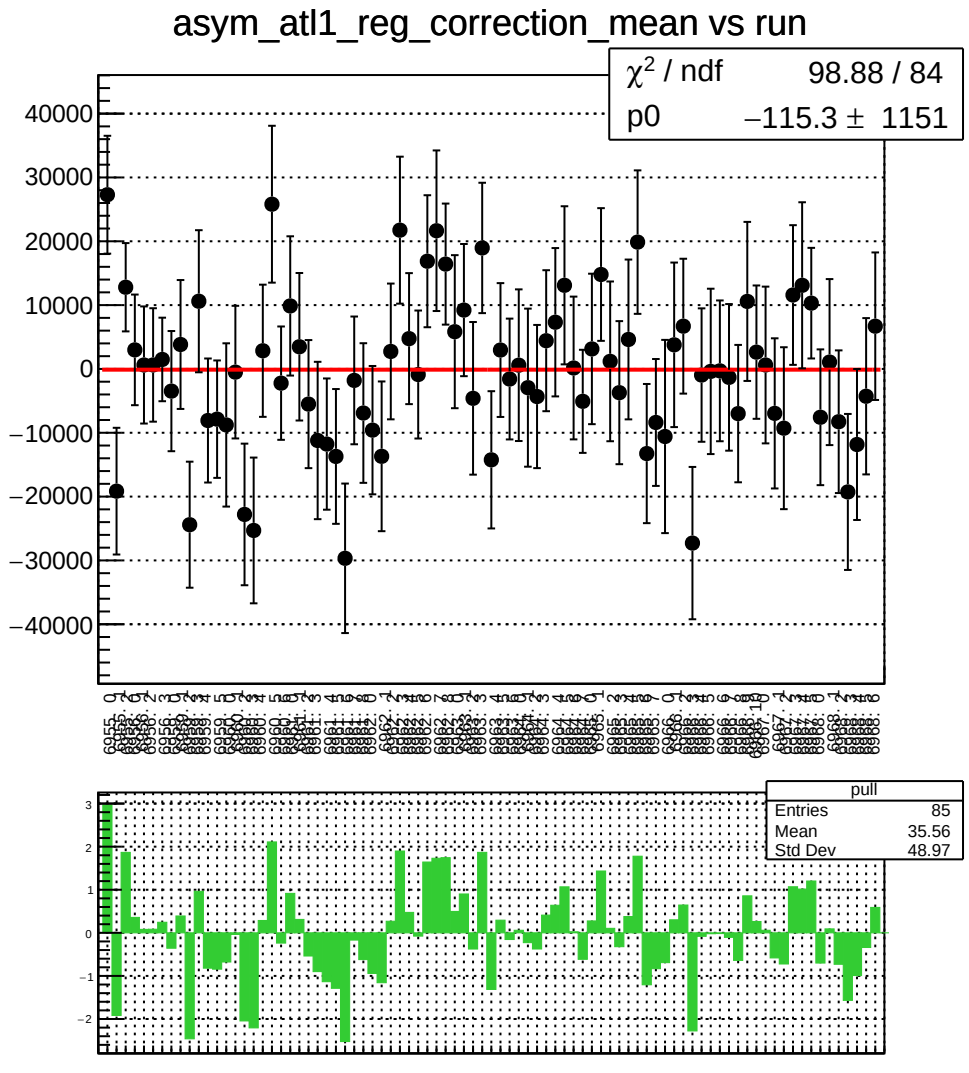

pull1D
Entries 85
Mean −0.001414
Std Dev 1.097

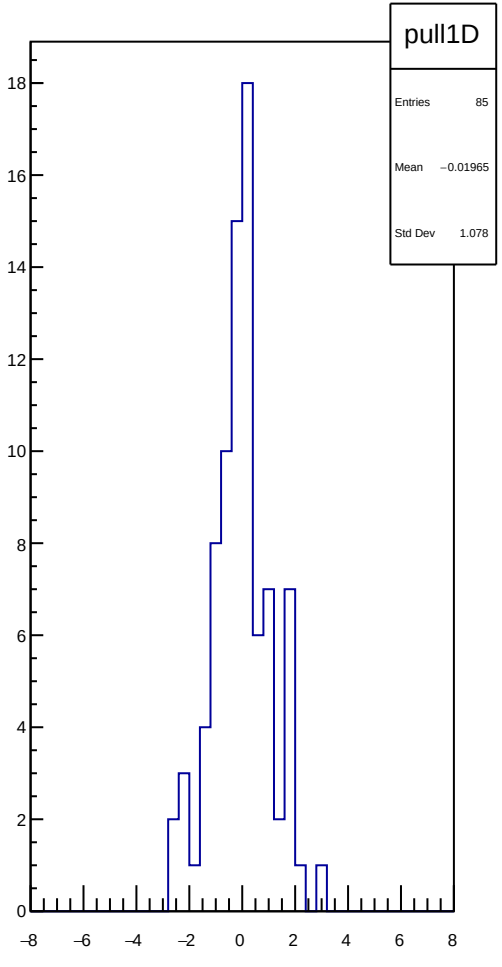

asym_us_agg_dd_rms vs run
χ² / ndf 1936 / 84
p0 998.2 ± 0.7793
1150
1100
1050
1000
950

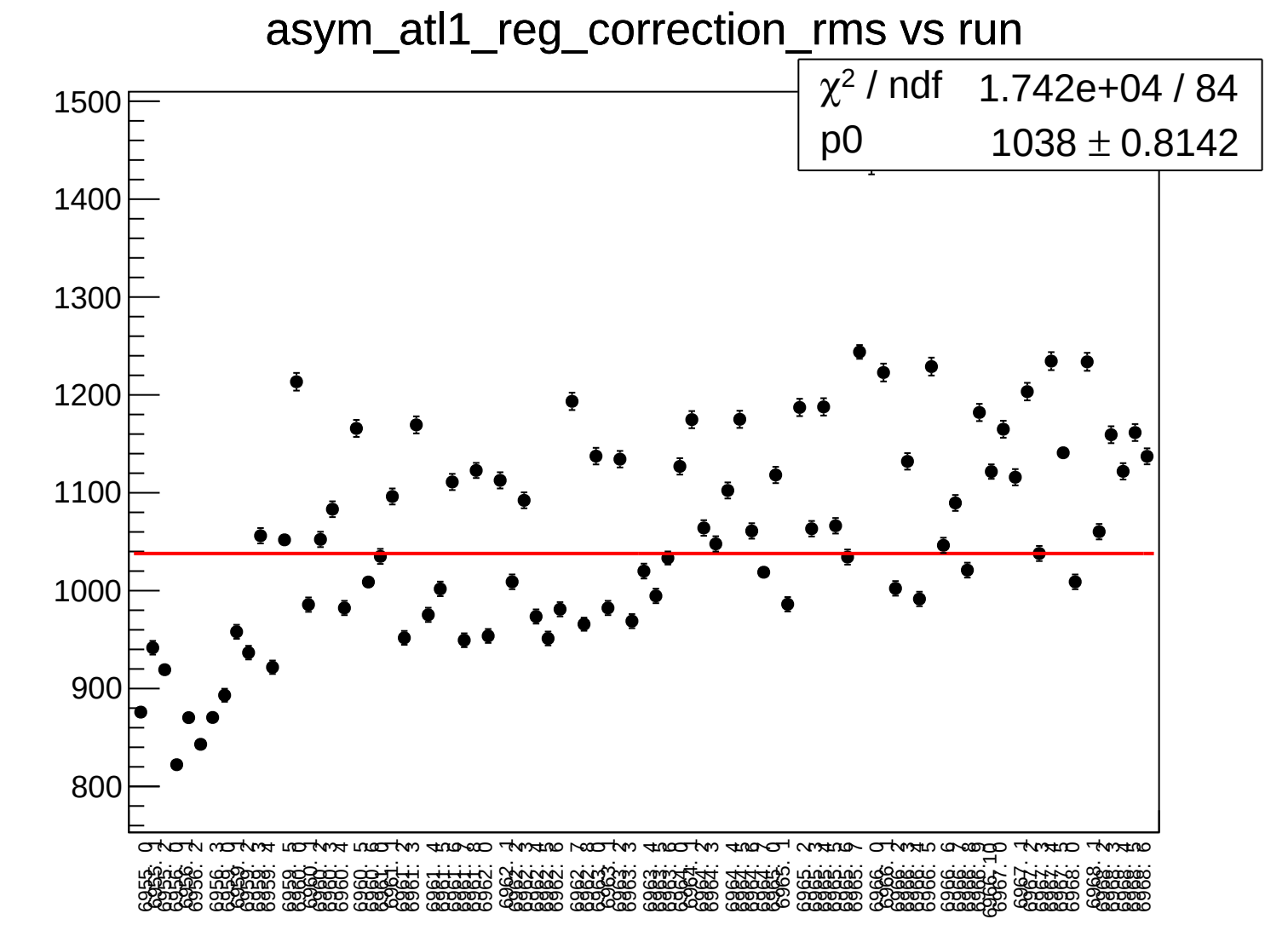

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 103 / 84
p0 2716 ± 2628
100
50
0
−50
−100
pull
Entries 85
Mean 32.91
Std Dev 0
3
2
1
0
−1
−2
−3

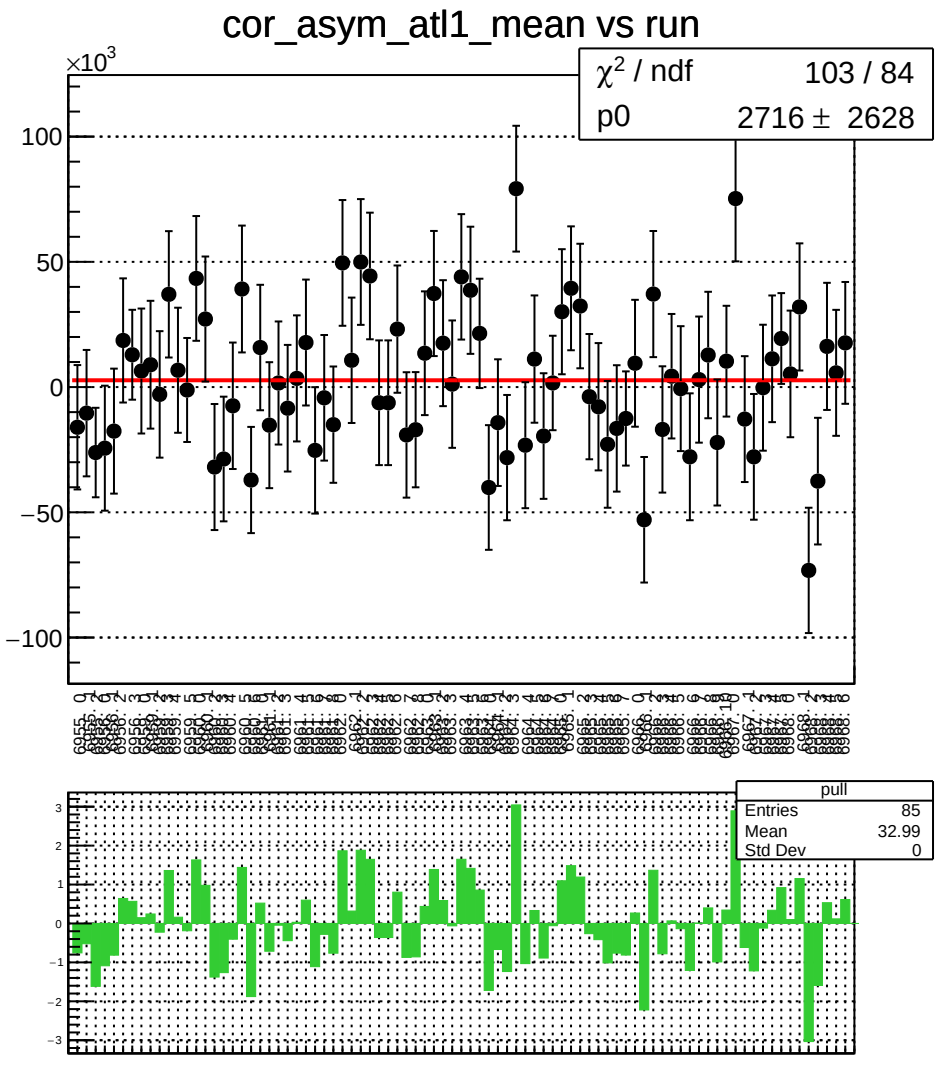

pull1D
Entries 85
Mean 0.008273
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

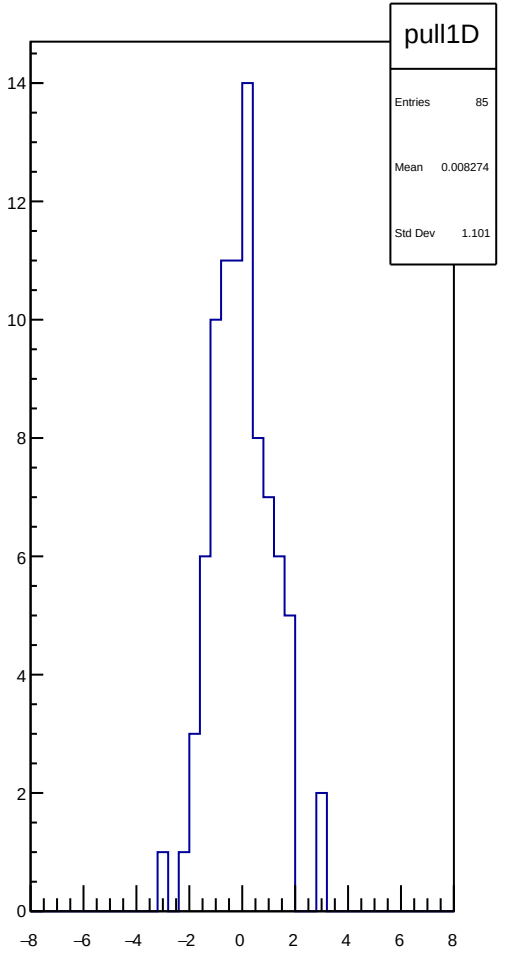

reg_asym_atl1_rms vs run
$\chi^2$ / ndf 91.52 / 84
p0 2382 ± 1.858
2440
2420
2400
2380
2360
2340
2320

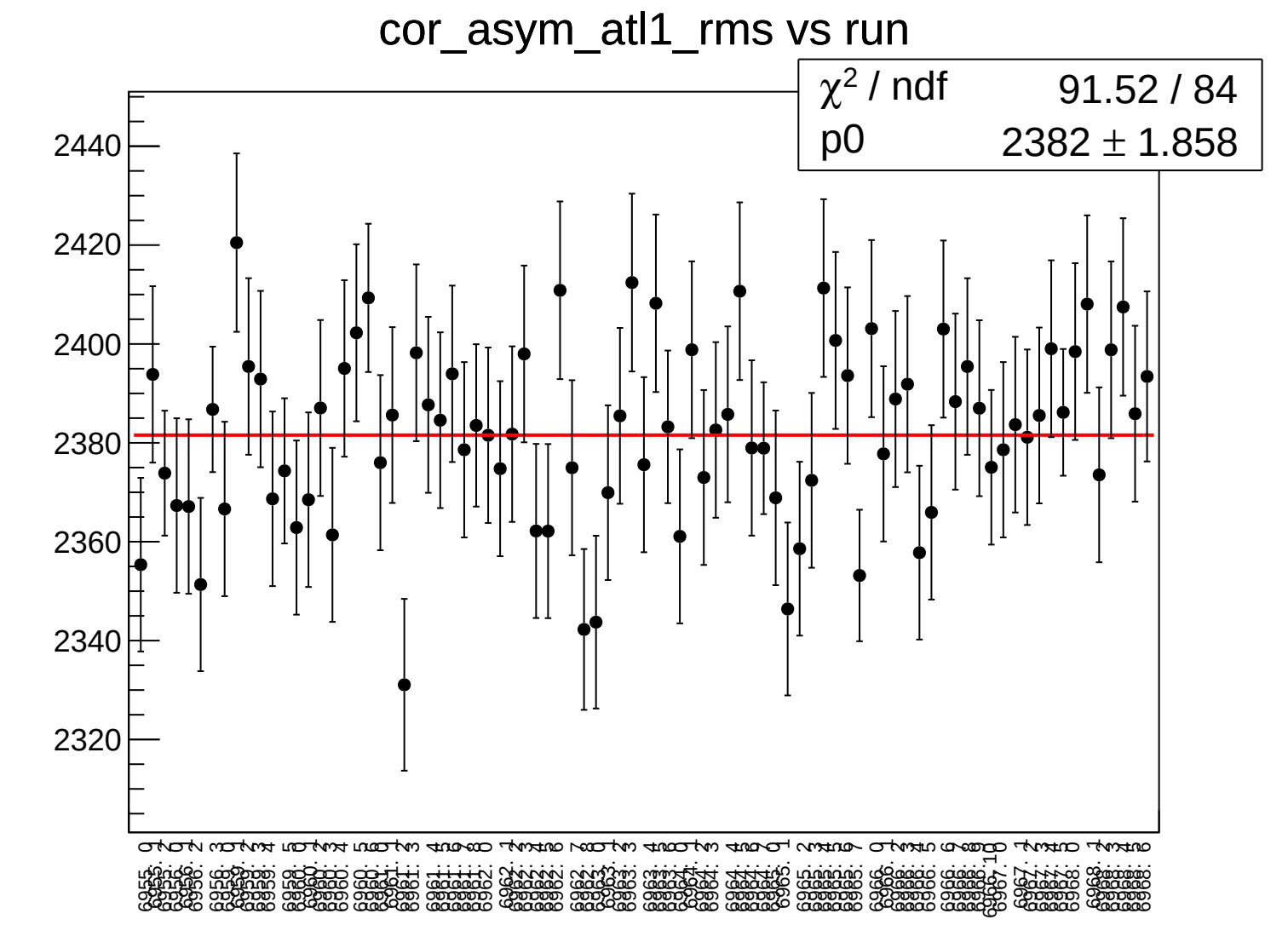

asym_atl1_reg_correction_mean vs run
χ² / ndf 98.88 / 84
p0 −115.3 ± 1151
pull
Entries 85
Mean 35.56
Std Dev 48.97

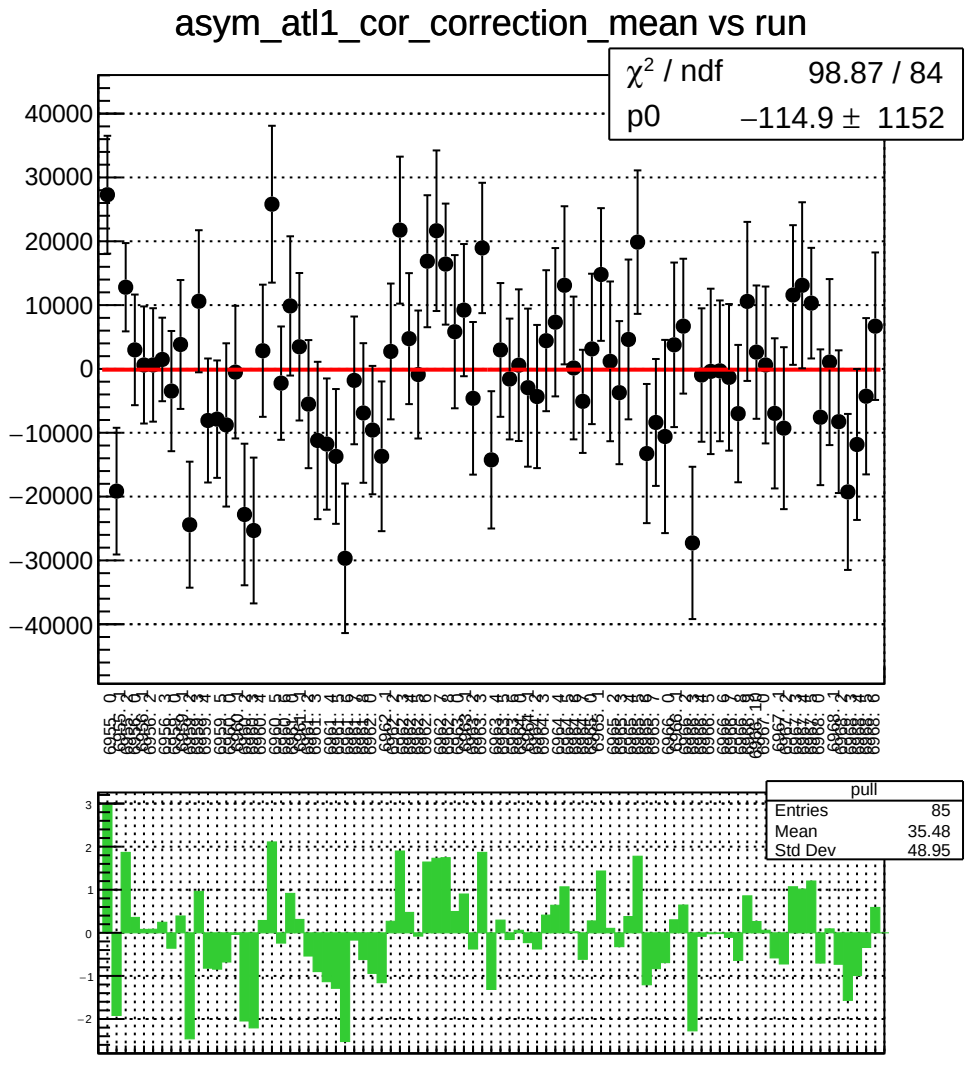

pull1D
Entries 85
Mean −0.01965
Std Dev 1.078

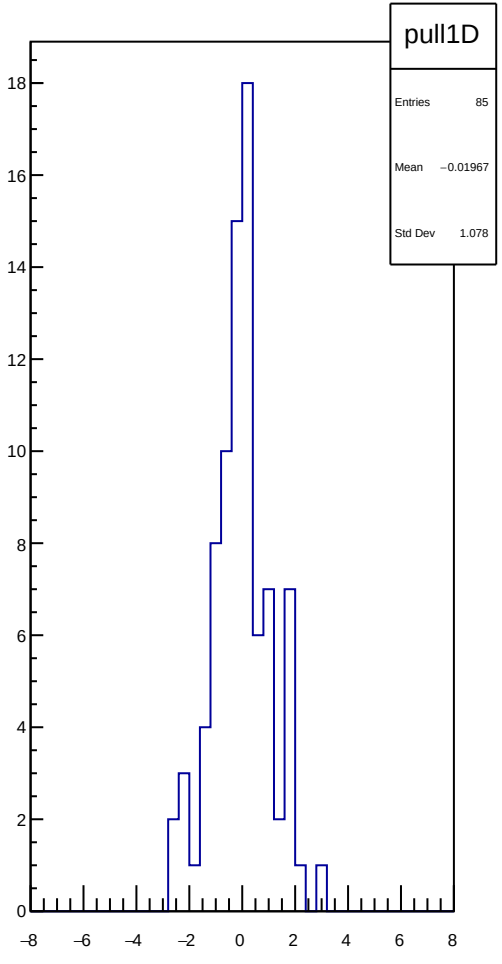

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.742e+04 / 84
p0 1038 ± 0.8142
1500
1400
1300
1200
1100
1000
900
800

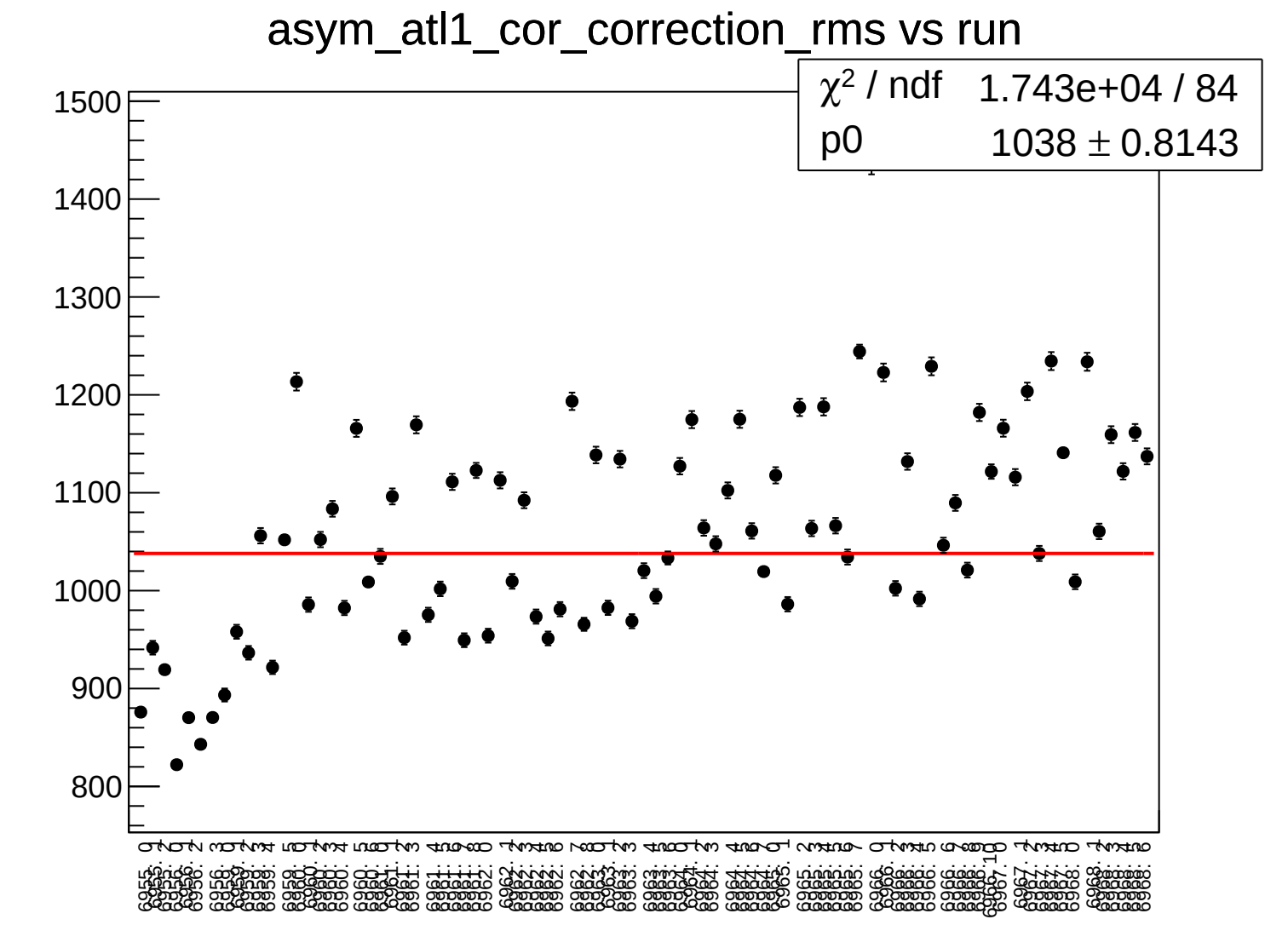

cor_asym_atl1_mean vs run
×10^3
χ² / ndf 103 / 84
p0 2716 ± 2628
100
50
0
−50
−100
pull
Entries 85
Mean 32.99
Std Dev 0
3
2
1
0
−1
−2
−3

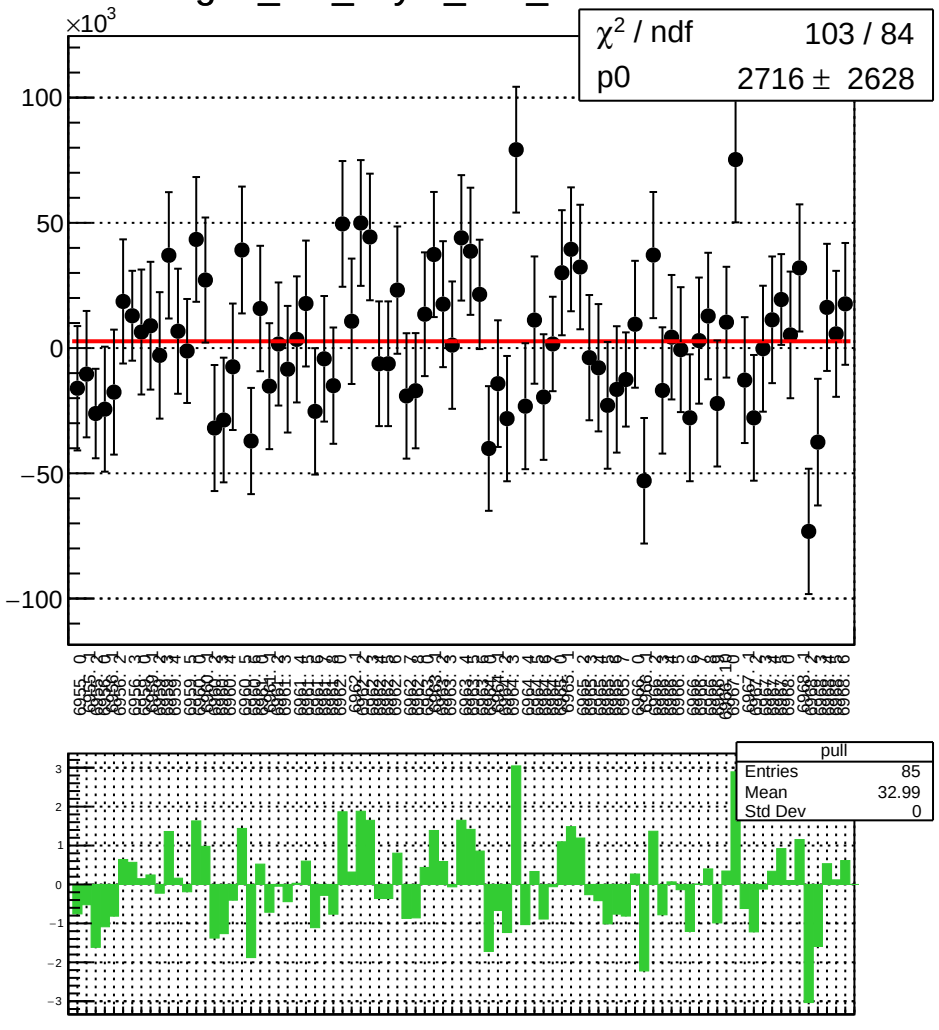

pull1D
Entries 85
Mean 0.008274
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

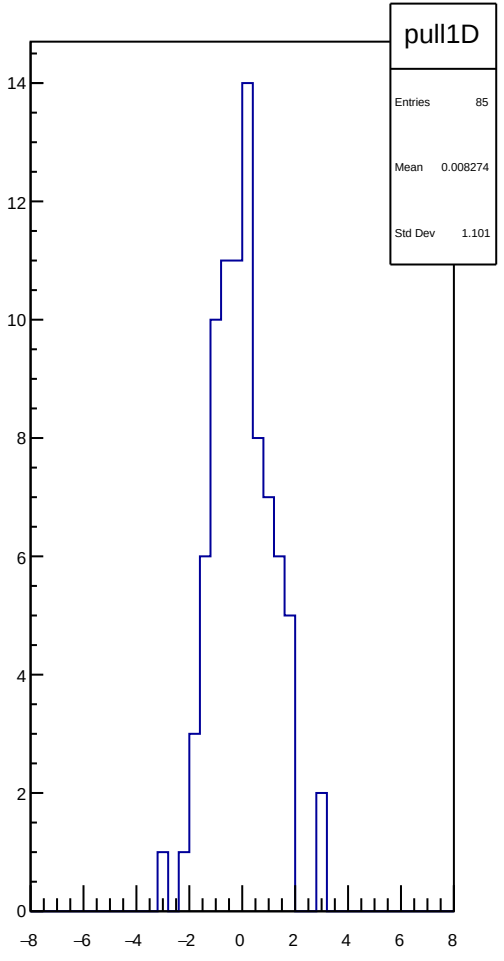

cor_asym_atl1_rms vs run
$\chi^2$ / ndf 91.52 / 84
p0 2382 ± 1.858
2440
2420
2400
2380
2360
2340
2320

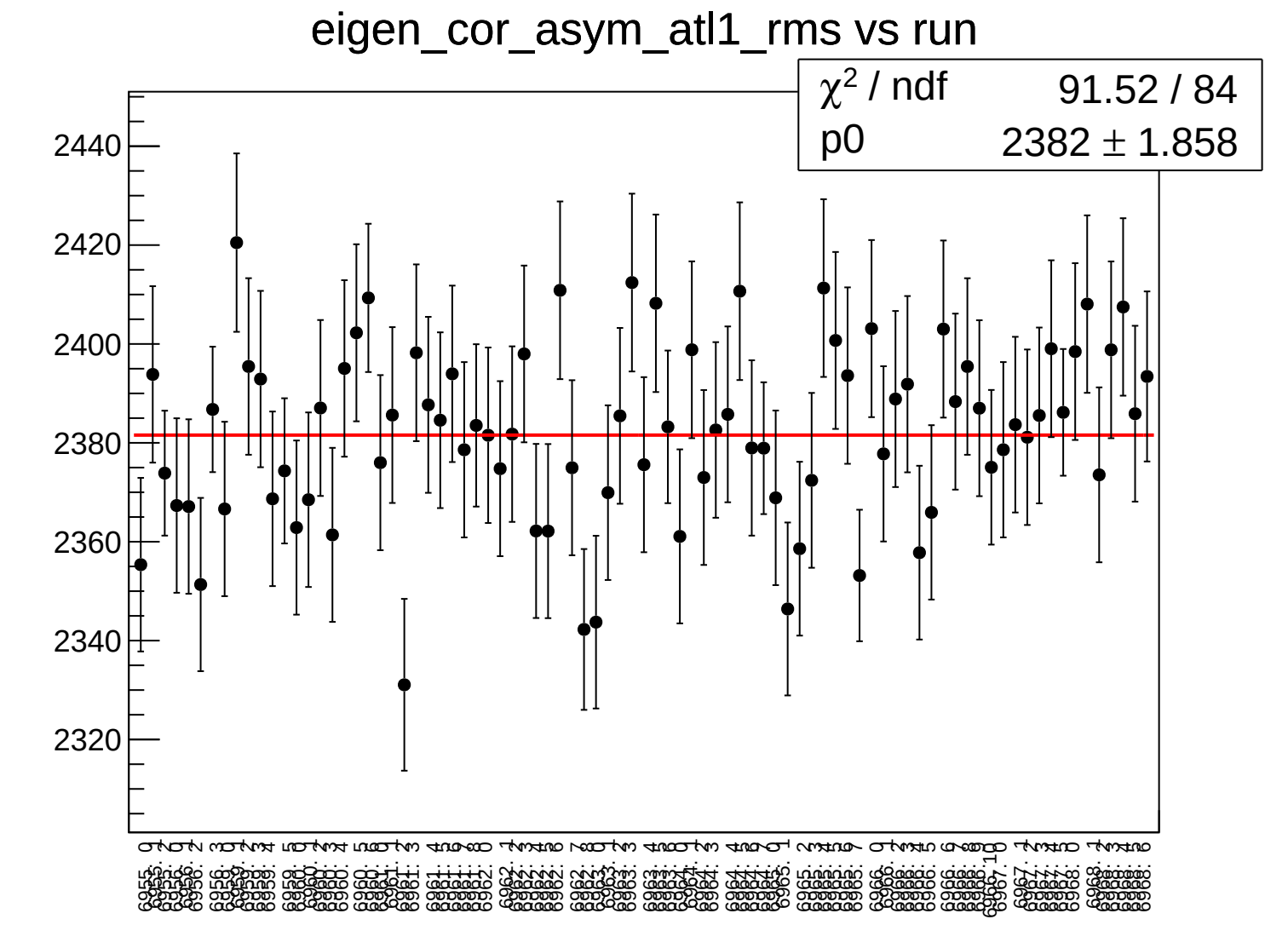

asym_atl1_cor_correction_mean vs run
χ² / ndf 98.87 / 84
p0 −114.9 ± 1152
pull
Entries 85
Mean 35.48
Std Dev 48.95

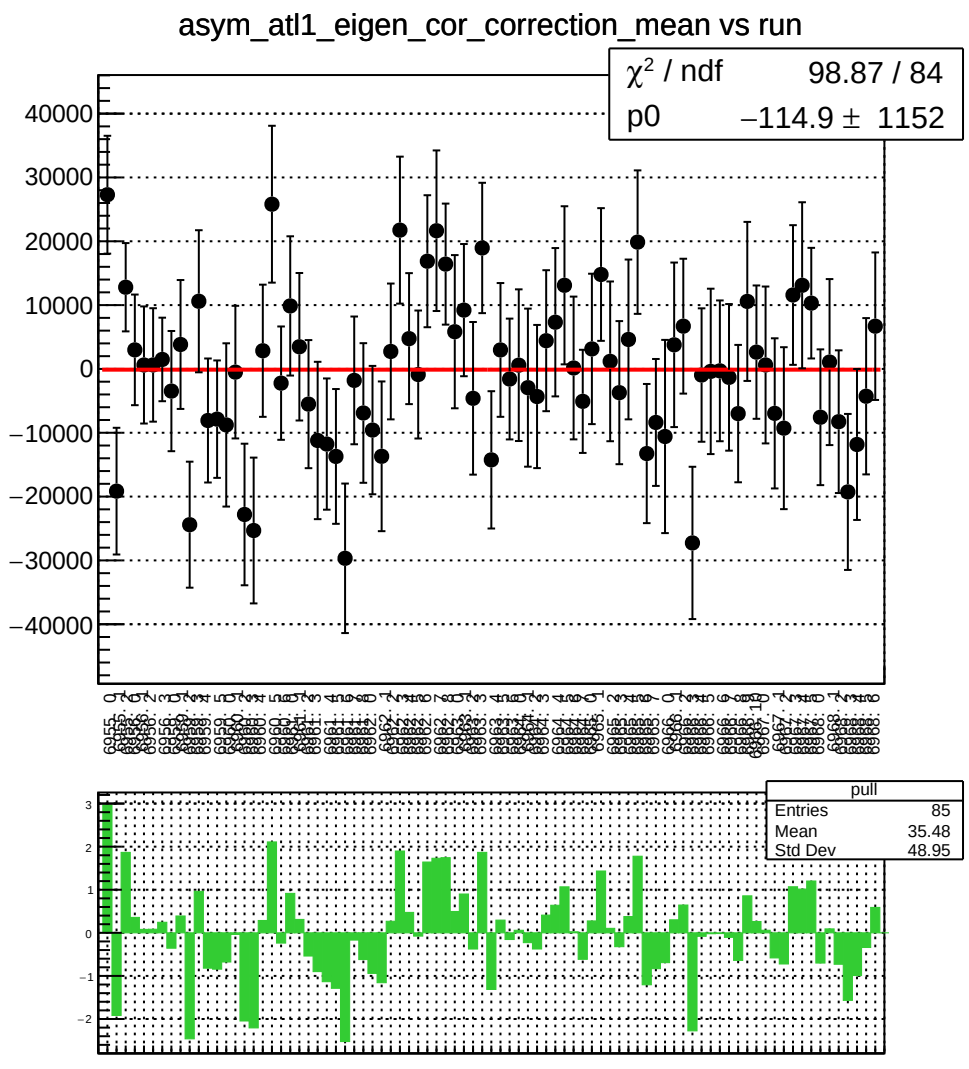

pull1D
Entries 85
Mean −0.01967
Std Dev 1.078

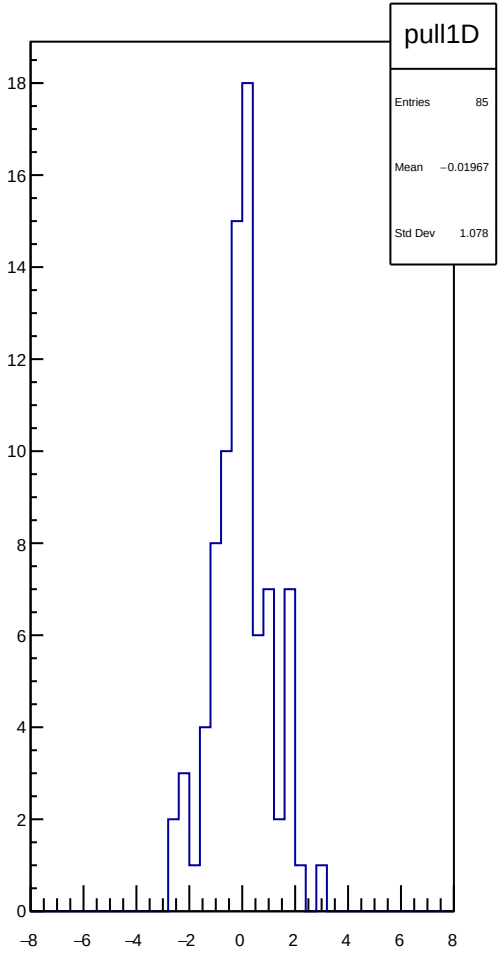

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.743e+04 / 84
p0 1038 ± 0.8143
1500
1400
1300
1200
1100
1000
900
800

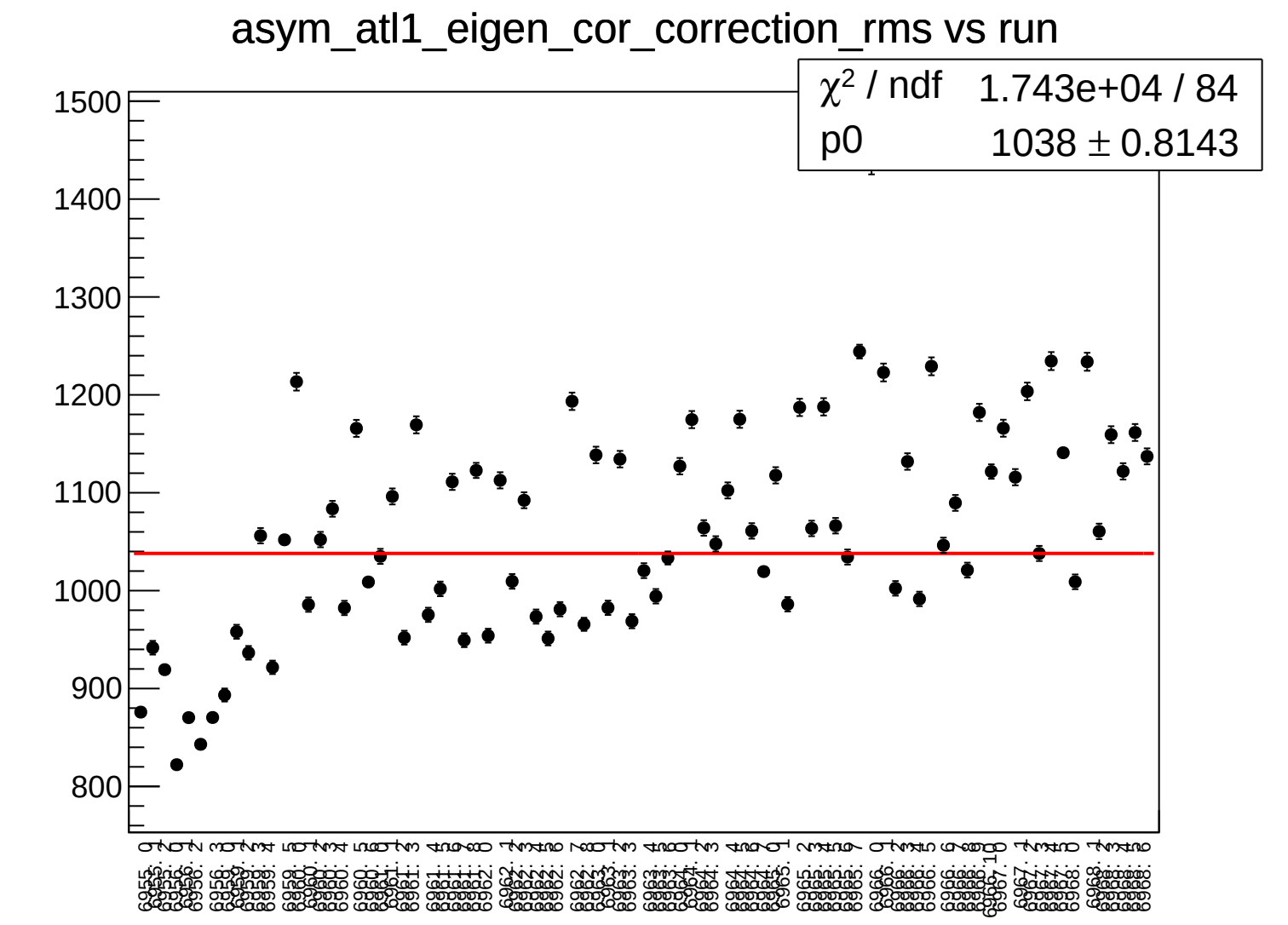

eigen_cor_asym_atl1_mean vs run
χ² / ndf 103 / 84
p0 2716 ± 2628
pull
Entries 85
Mean 32.99
Std Dev 0

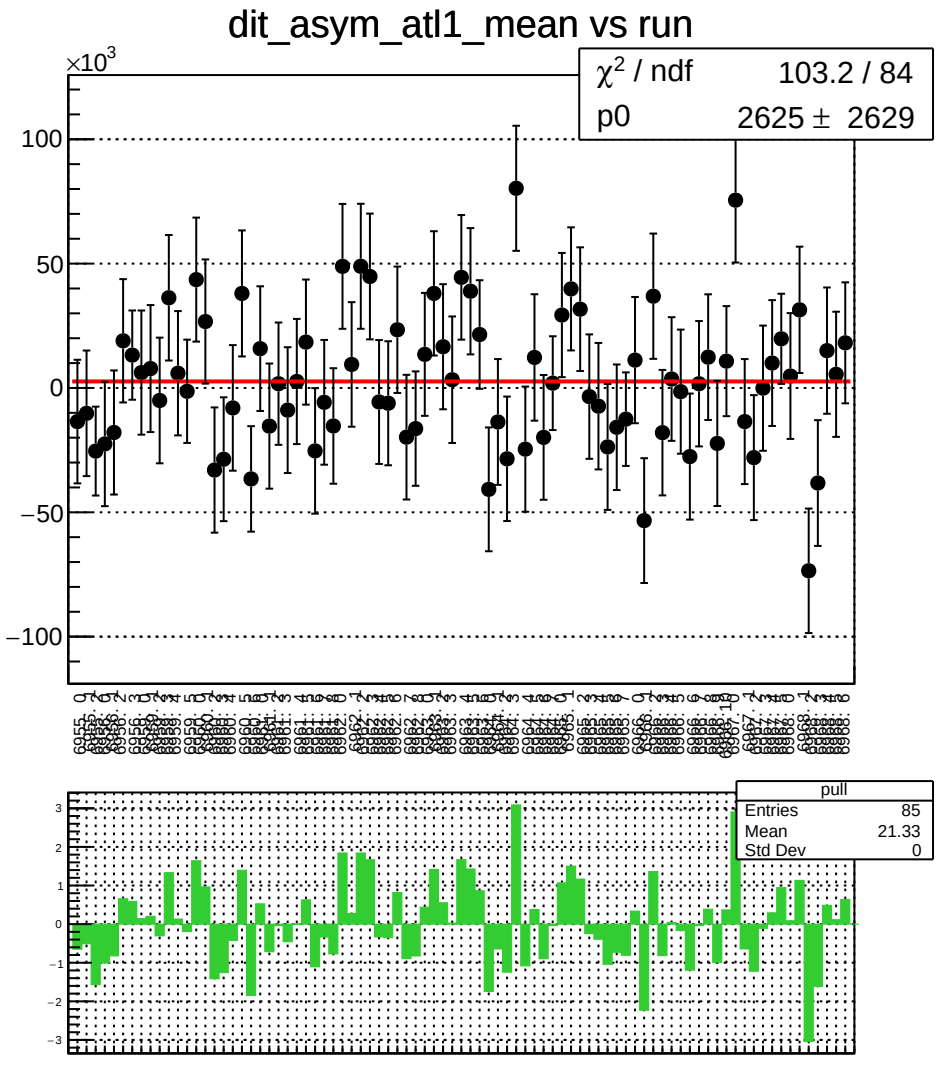

pull1D
Entries 85
Mean 0.008274
Std Dev 1.101

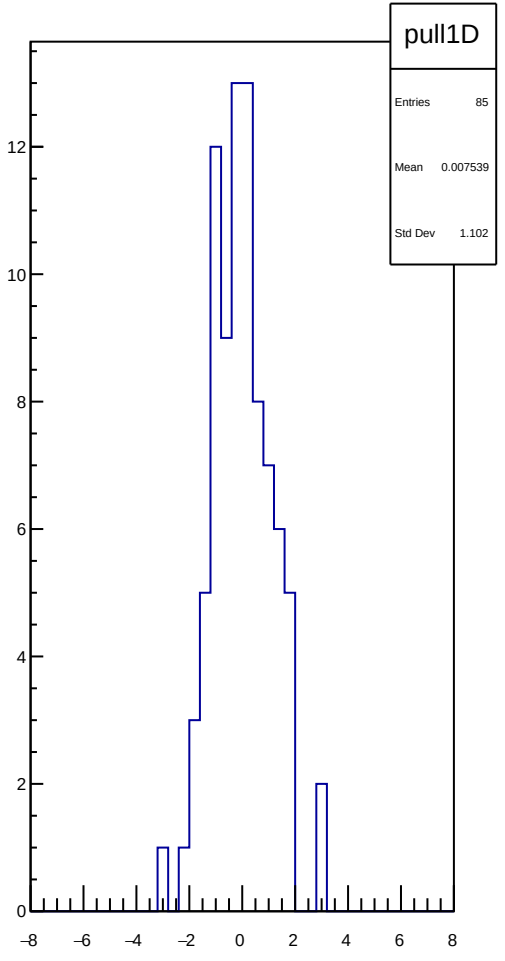

eigen_cor_asym_atl1_rms vs run
$\chi^2$ / ndf 91.52 / 84
p0 2382 ± 1.858
2440
2420
2400
2380
2360
2340
2320

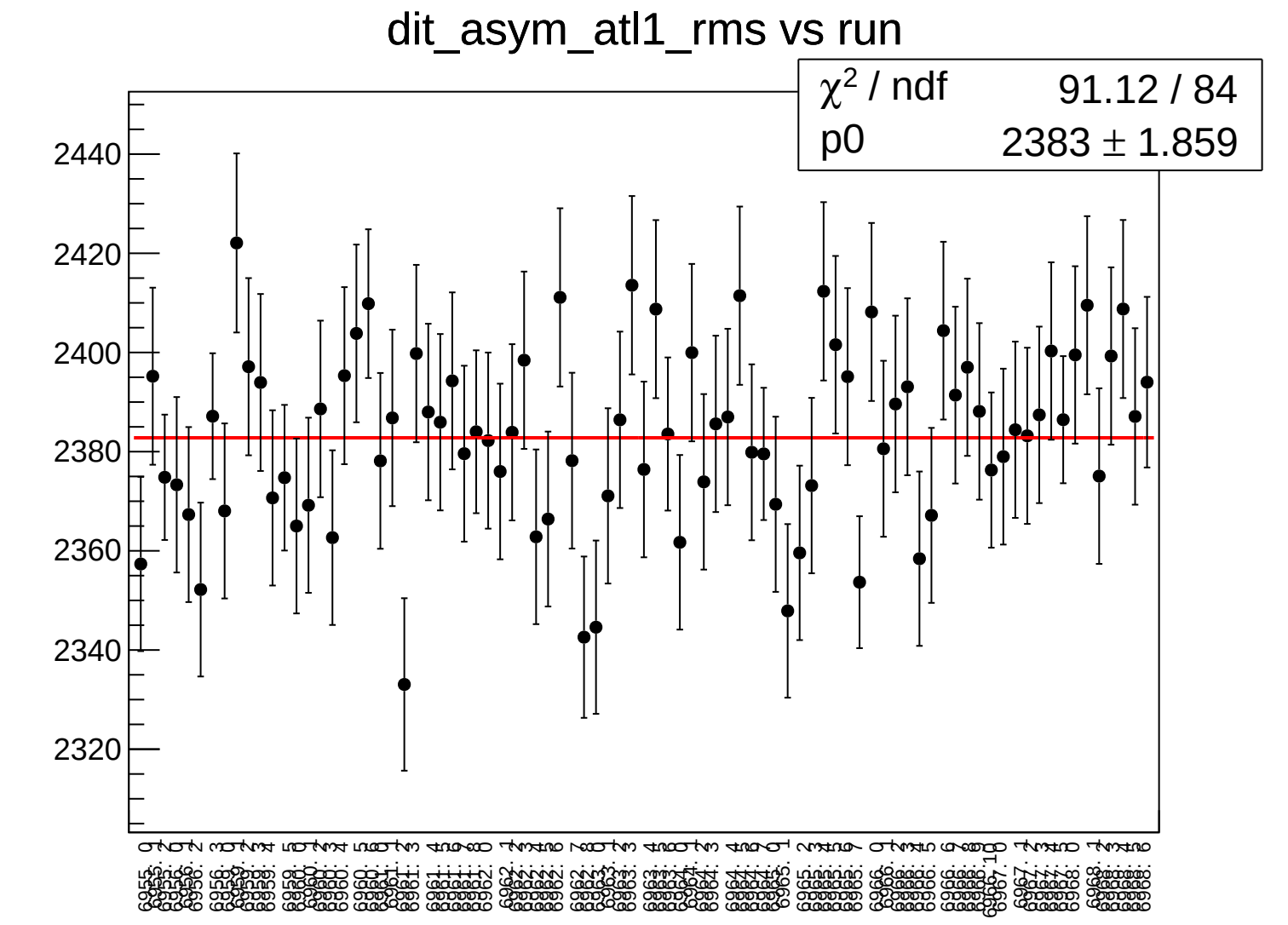

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 98.87 / 84
p0 −114.9 ± 1152
pull
Entries 85
Mean 35.48
Std Dev 48.95

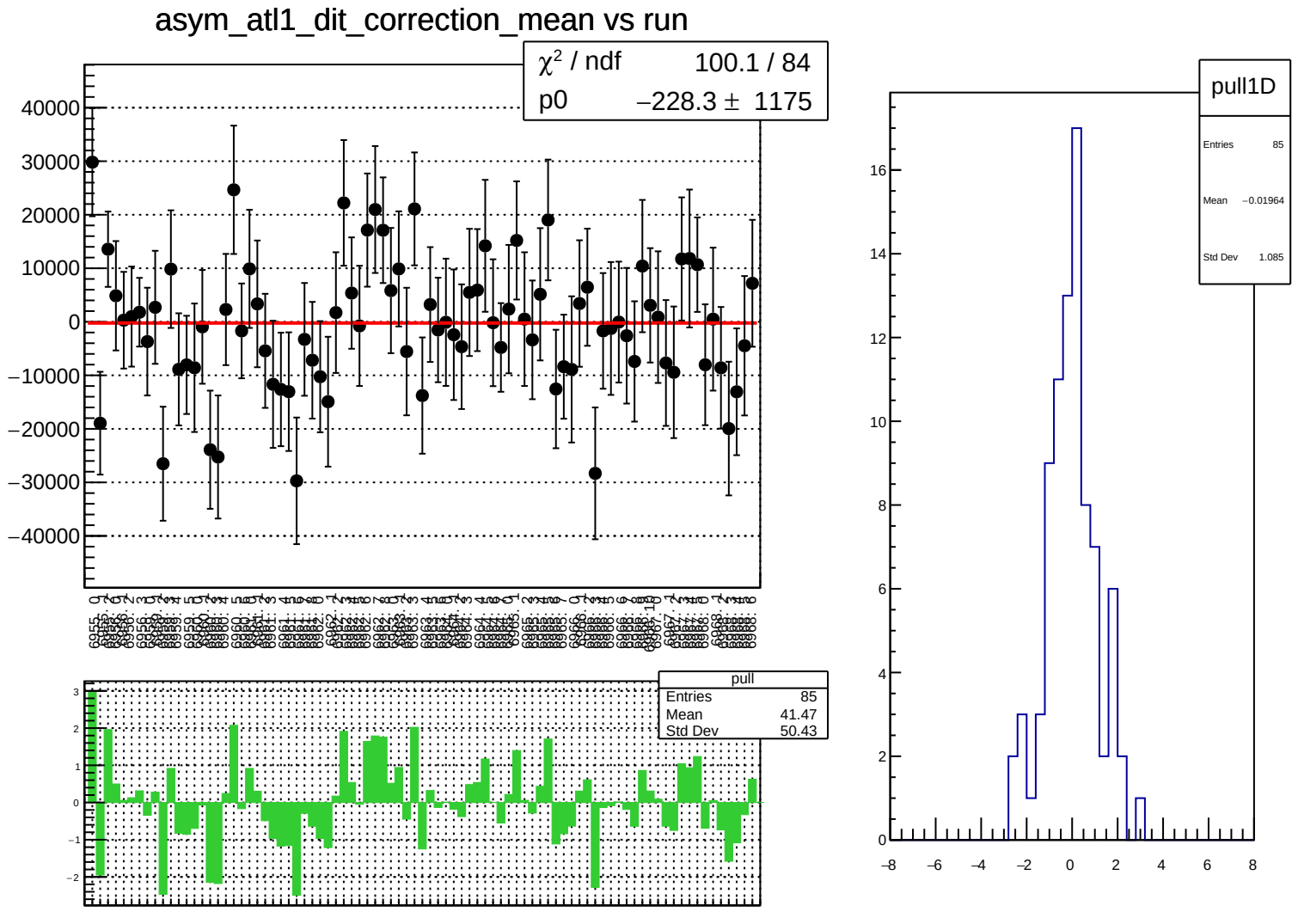

pull1D
Entries 85
Mean −0.01967
Std Dev 1.078

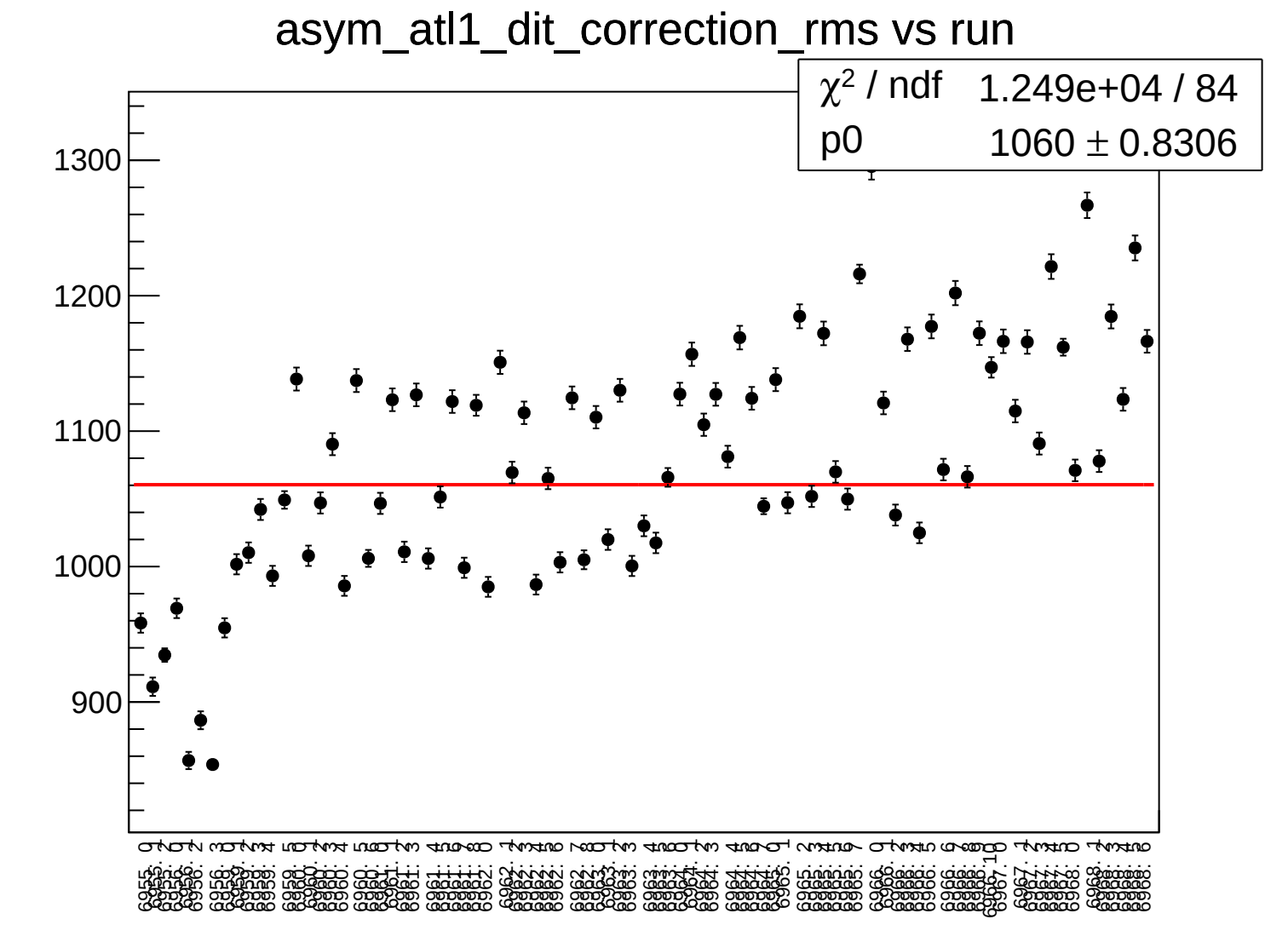

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.743e+04 / 84
p0 1038 ± 0.8143
1500
1400
1300
1200
1100
1000
900
800

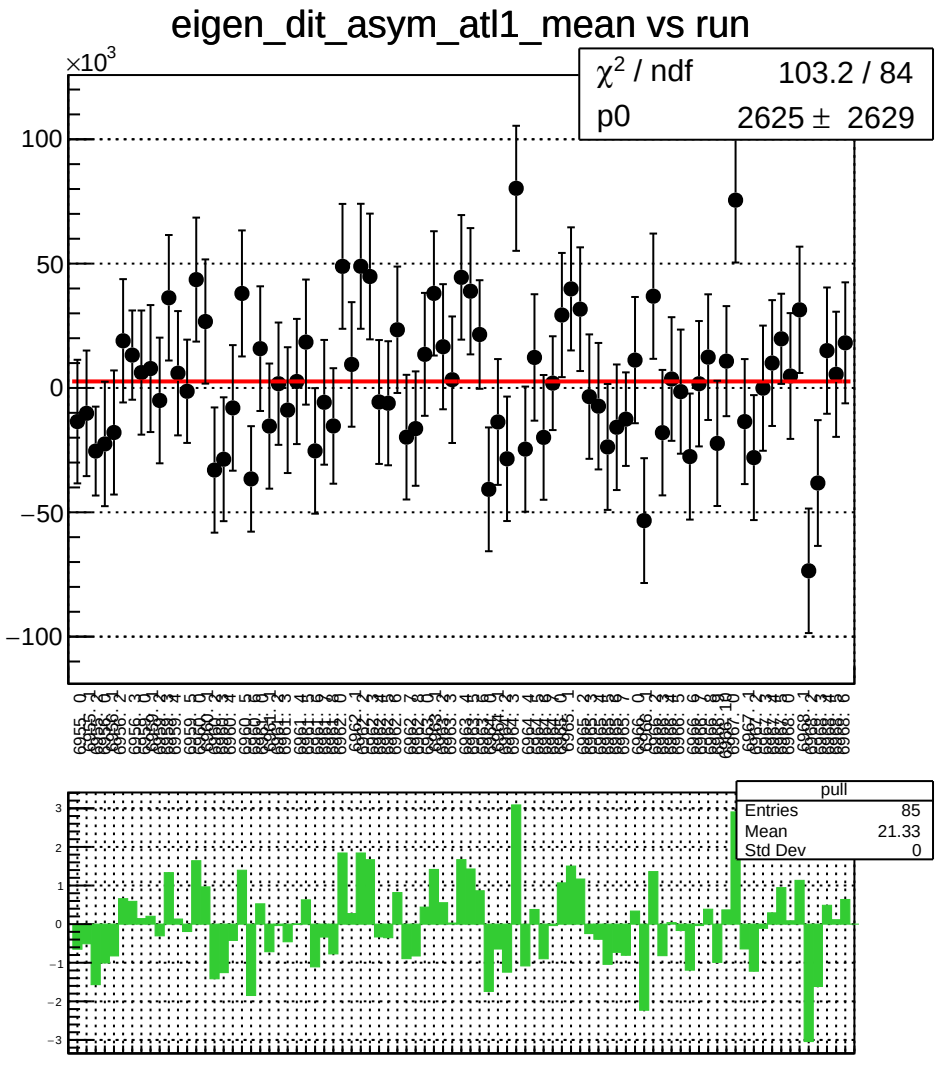

dit_asym_atl1_mean vs run
$\chi^2$ / ndf 103.2 / 84
p0 2625 ± 2629
×10^3
100
50
0
−50
−100
pull
Entries 85
Mean 21.33
Std Dev 0
3
2
1
0
−1
−2
−3

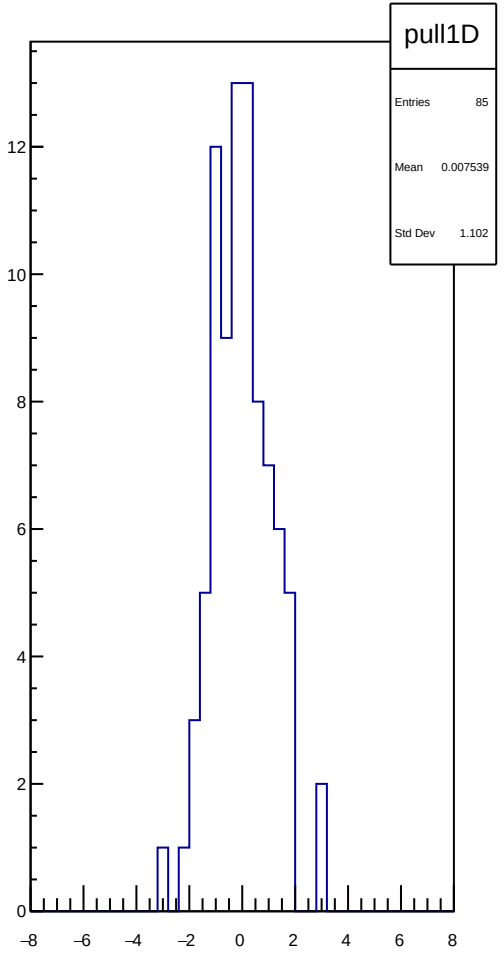

pull1D
Entries 85
Mean 0.007539
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

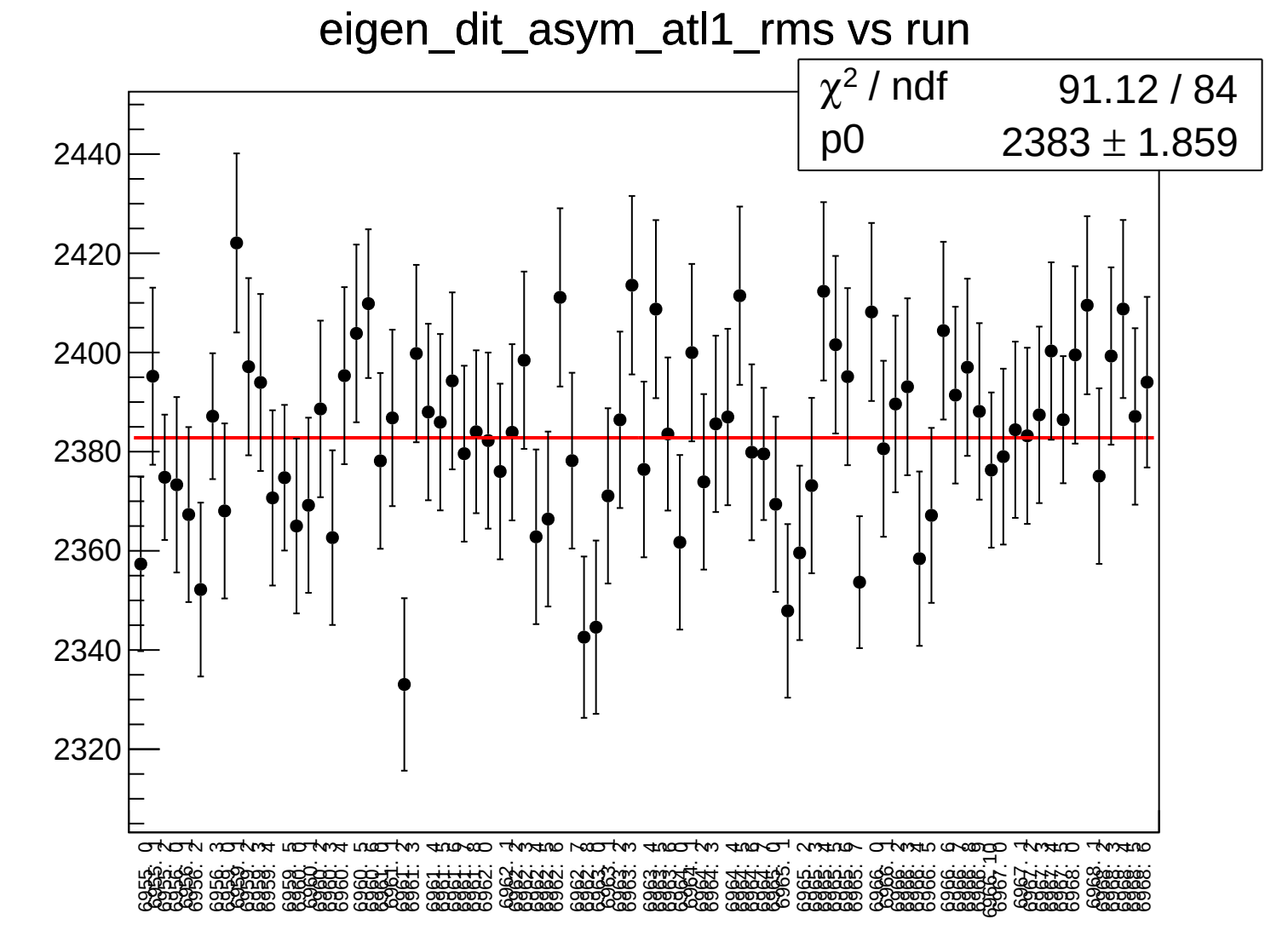

dit_asym_atl1_rms vs run
$\chi^2$ / ndf 91.12 / 84
p0 2383 ± 1.859
2440
2420
2400
2380
2360
2340
2320

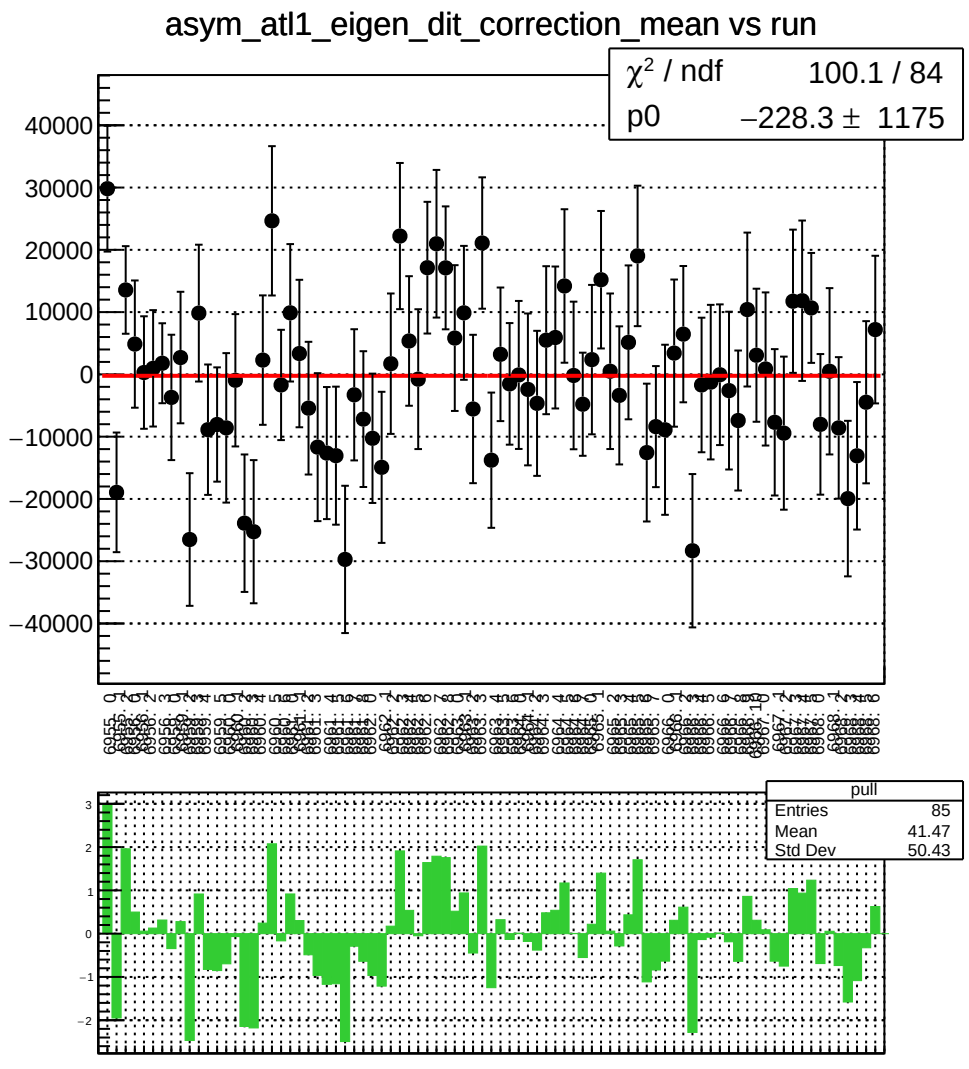

asym_atl1_dit_correction_mean vs run
χ² / ndf 100.1 / 84
p0 −228.3 ± 1175
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 41.47
Std Dev 50.43
3
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01964
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

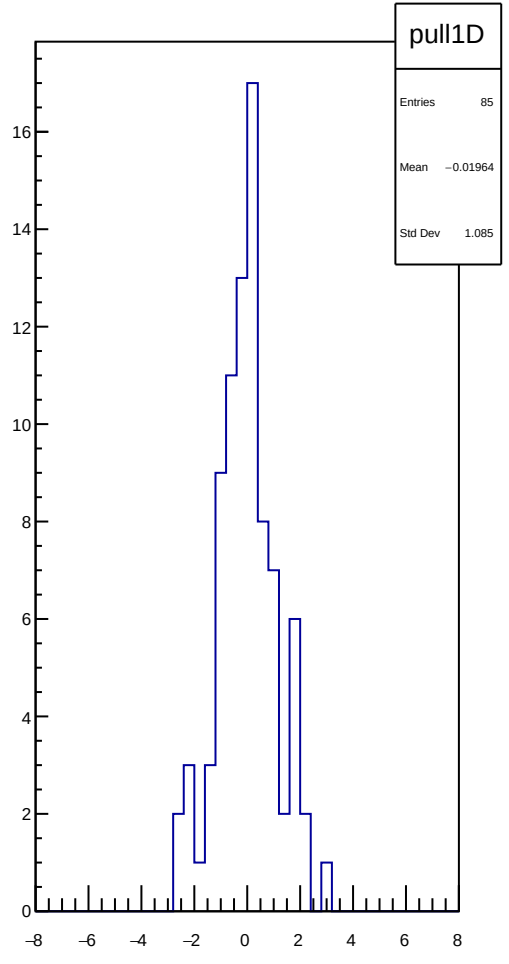

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.249e+04 / 84
p0 1060 ± 0.8306
1300
1200
1100
1000
900

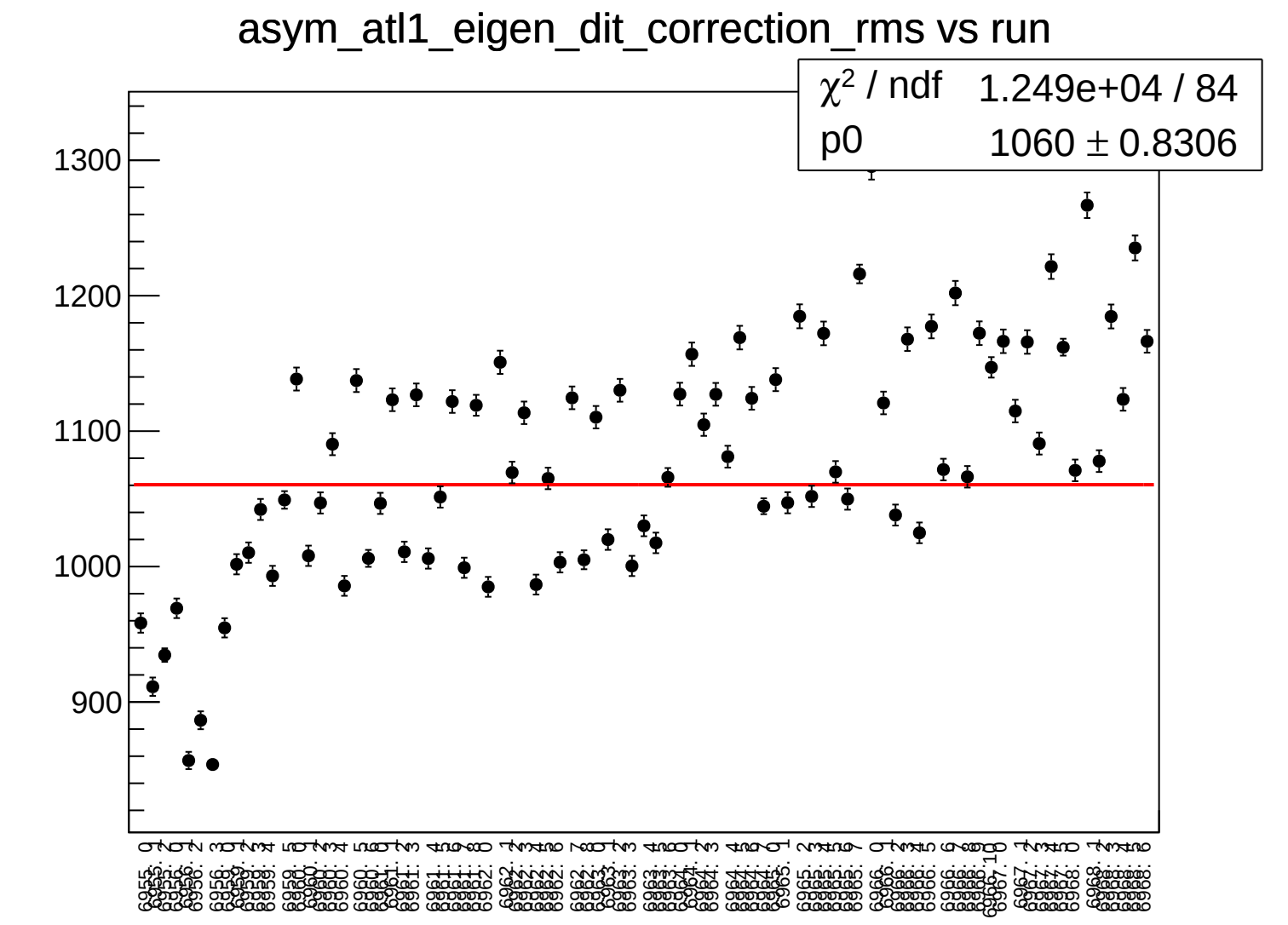

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 103.2 / 84
p0 2625 ± 2629
100
50
0
−50
−100
pull
Entries 85
Mean 21.33
Std Dev 0
3
2
1
0
−1
−2
−3

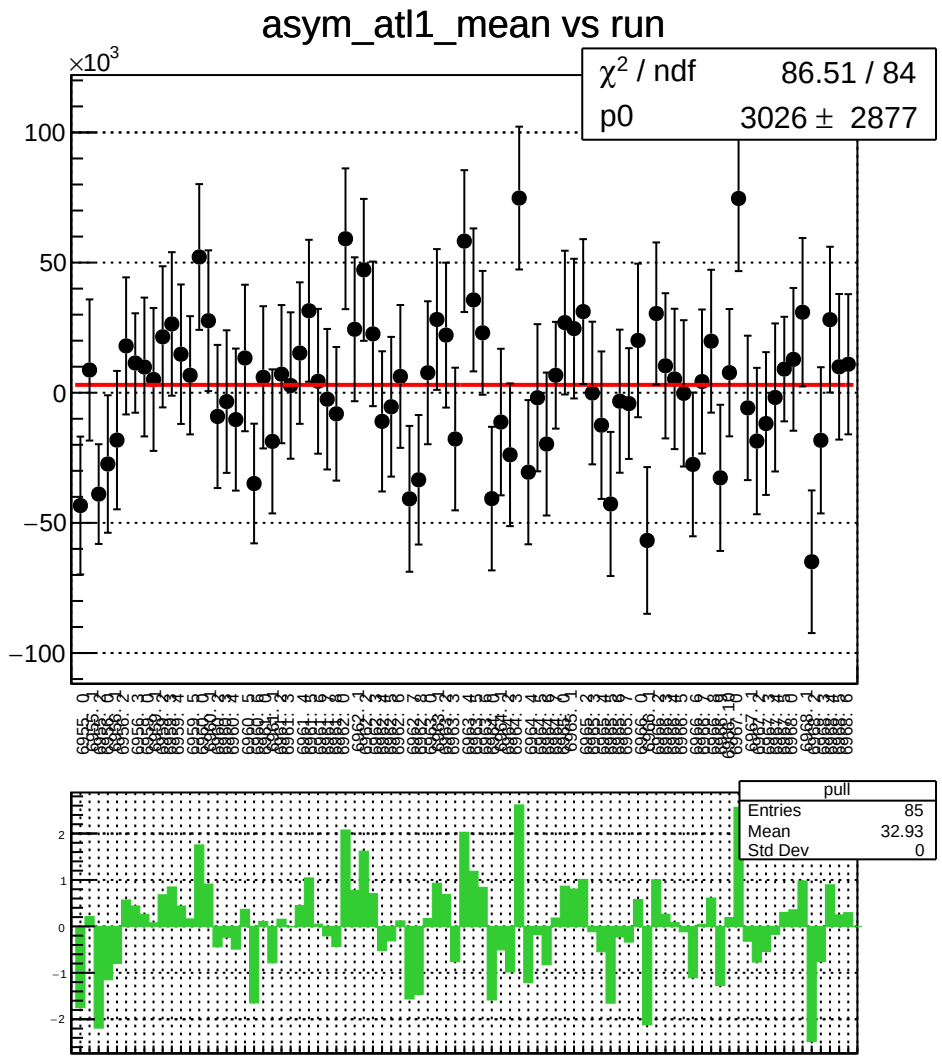

pull1D
Entries 85
Mean 0.007539
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

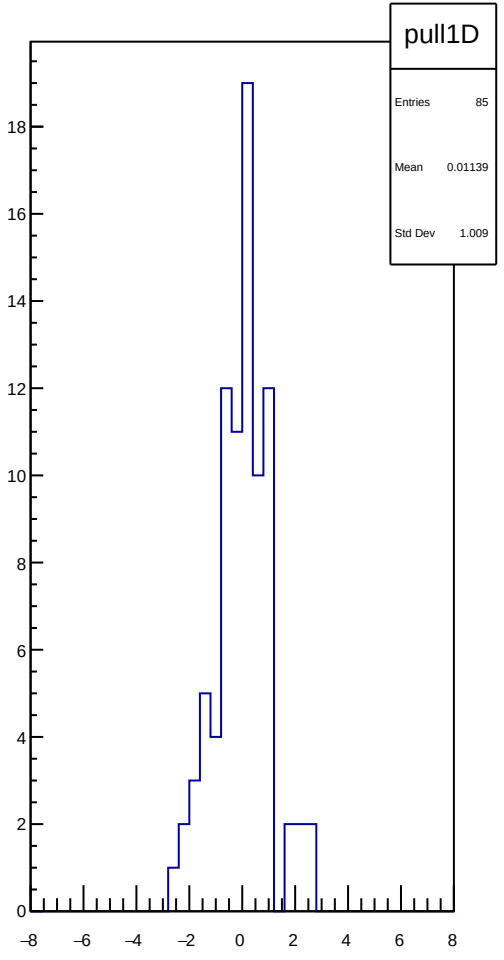

eigen_dit_asym_atl1_rms vs run
$\chi^2$ / ndf 91.12 / 84
p0 2383 ± 1.859
2440
2420
2400
2380
2360
2340
2320

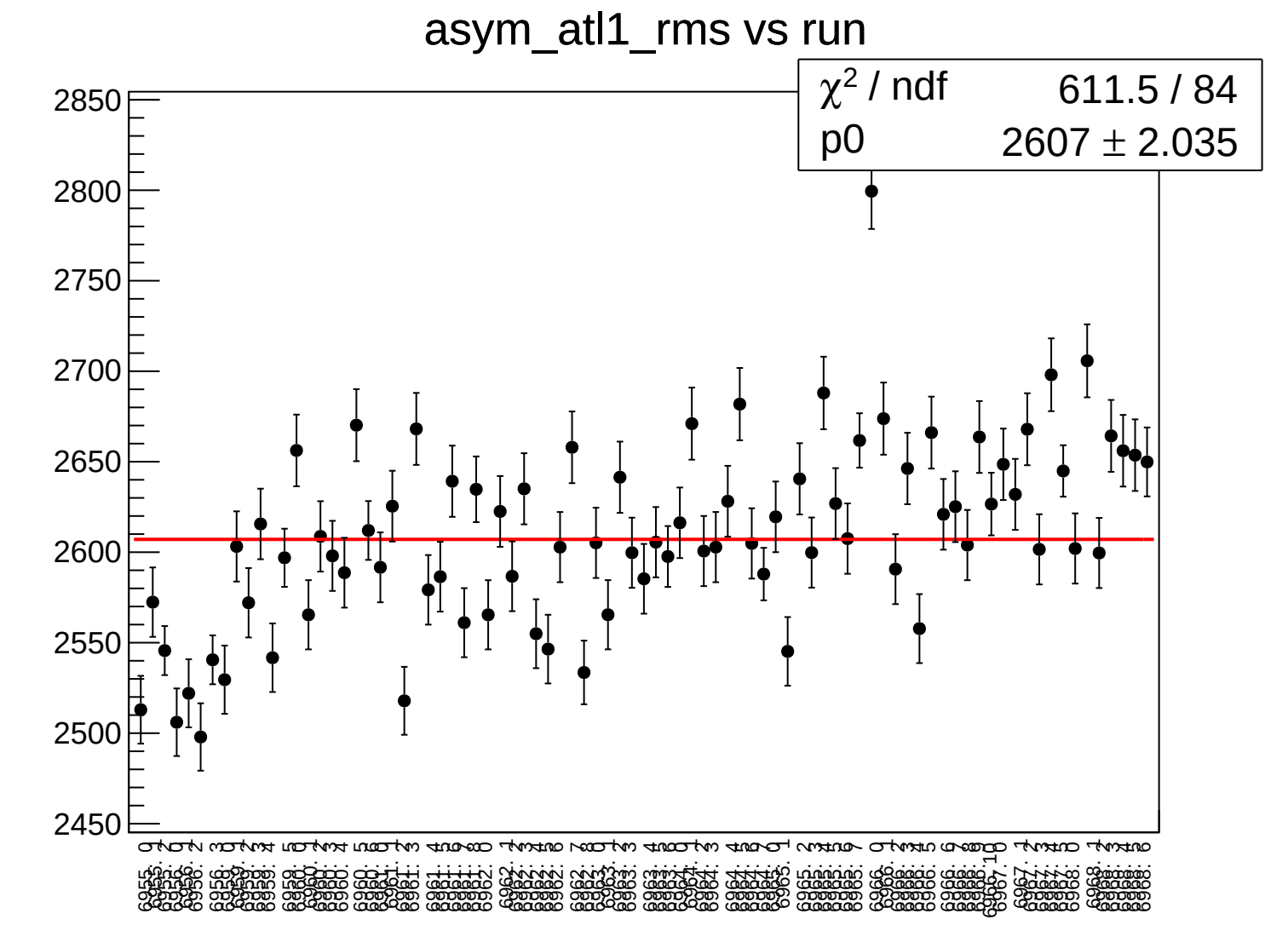

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 100.1 / 84
p0 −228.3 ± 1175
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 41.47
Std Dev 50.43
3
2
1
0
−1
−2

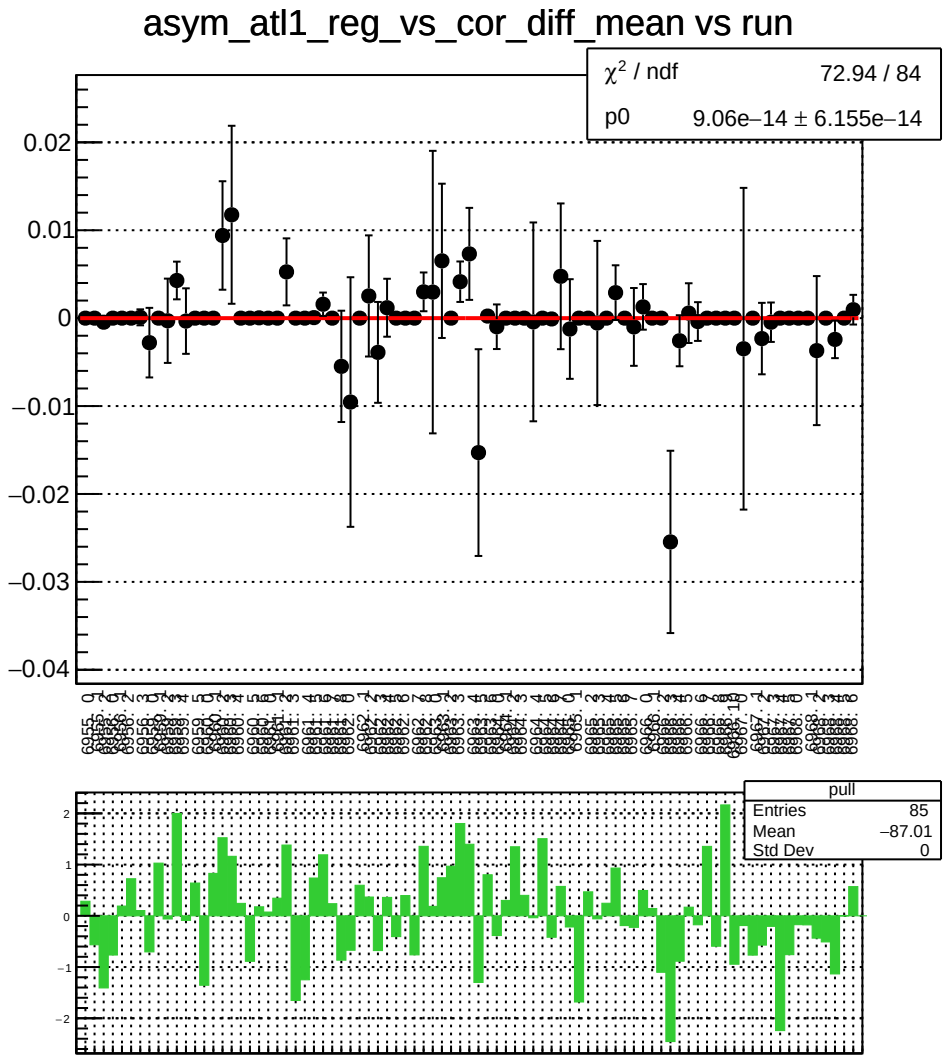

pull1D
Entries 85
Mean −0.01964
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

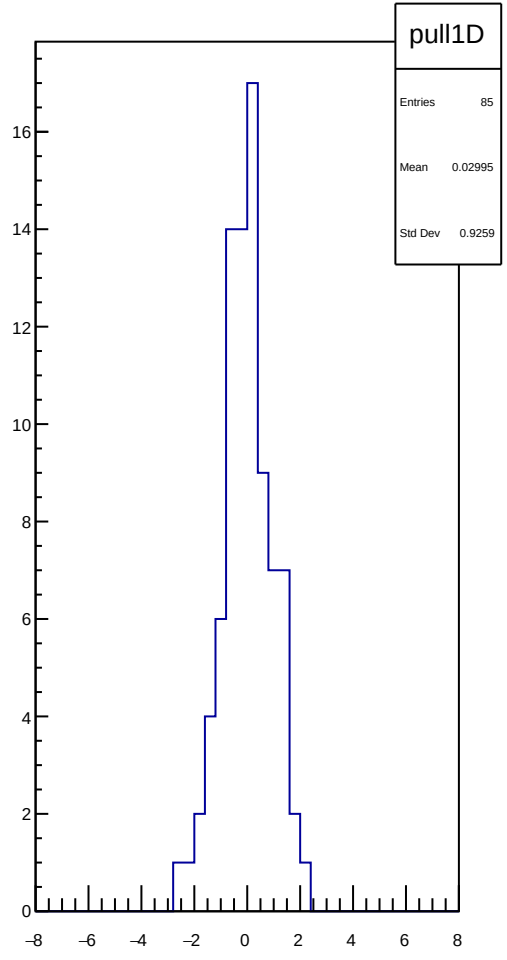

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.249e+04 / 84
p0 1060 ± 0.8306
1300
1200
1100
1000
900

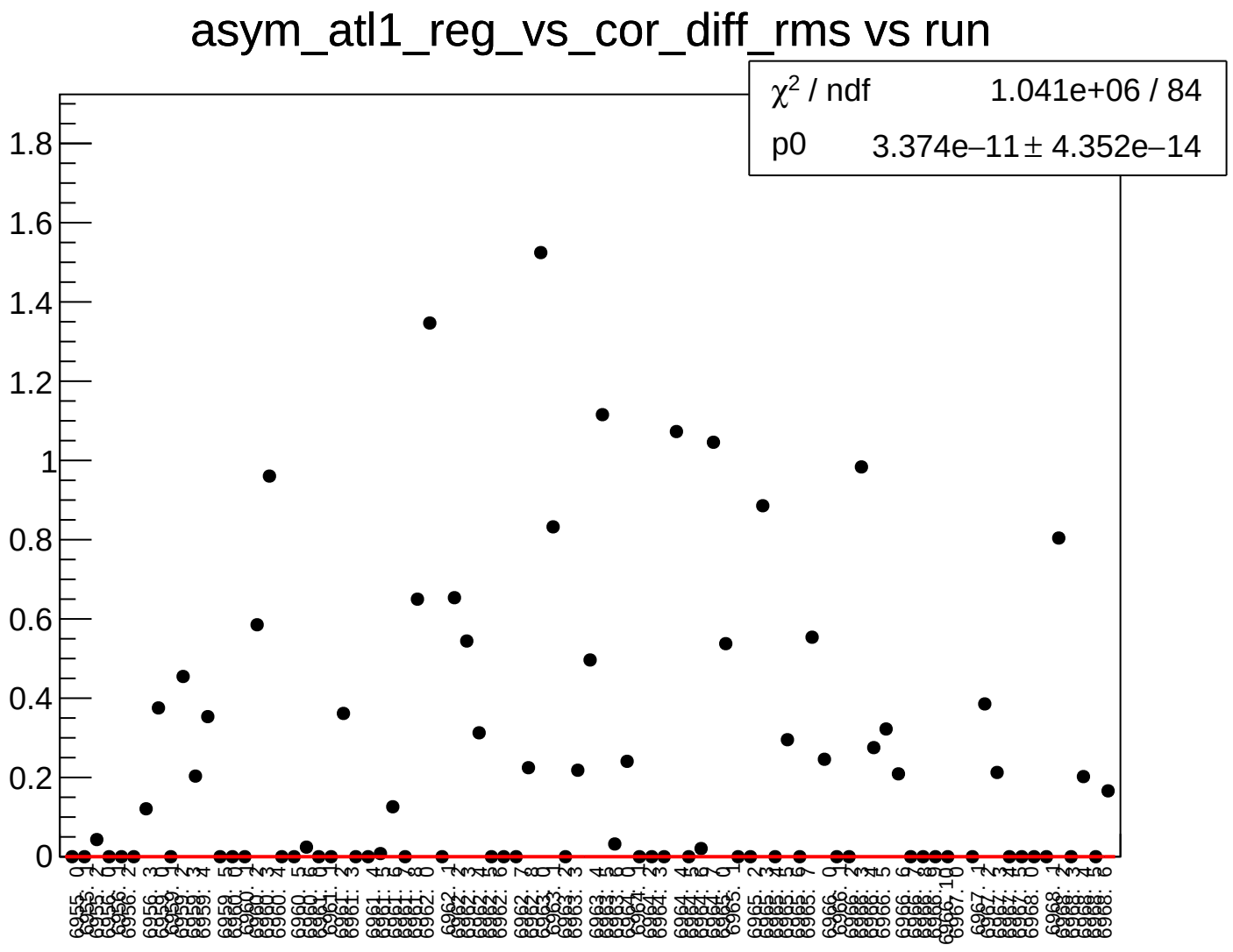

asym_atl1_mean vs run
×10^3
χ^2 / ndf 86.51 / 84
p0 3026 ± 2877
100
50
0
−50
−100
pull
Entries 85
Mean 32.93
Std Dev 0
2
1
0
−1
−2

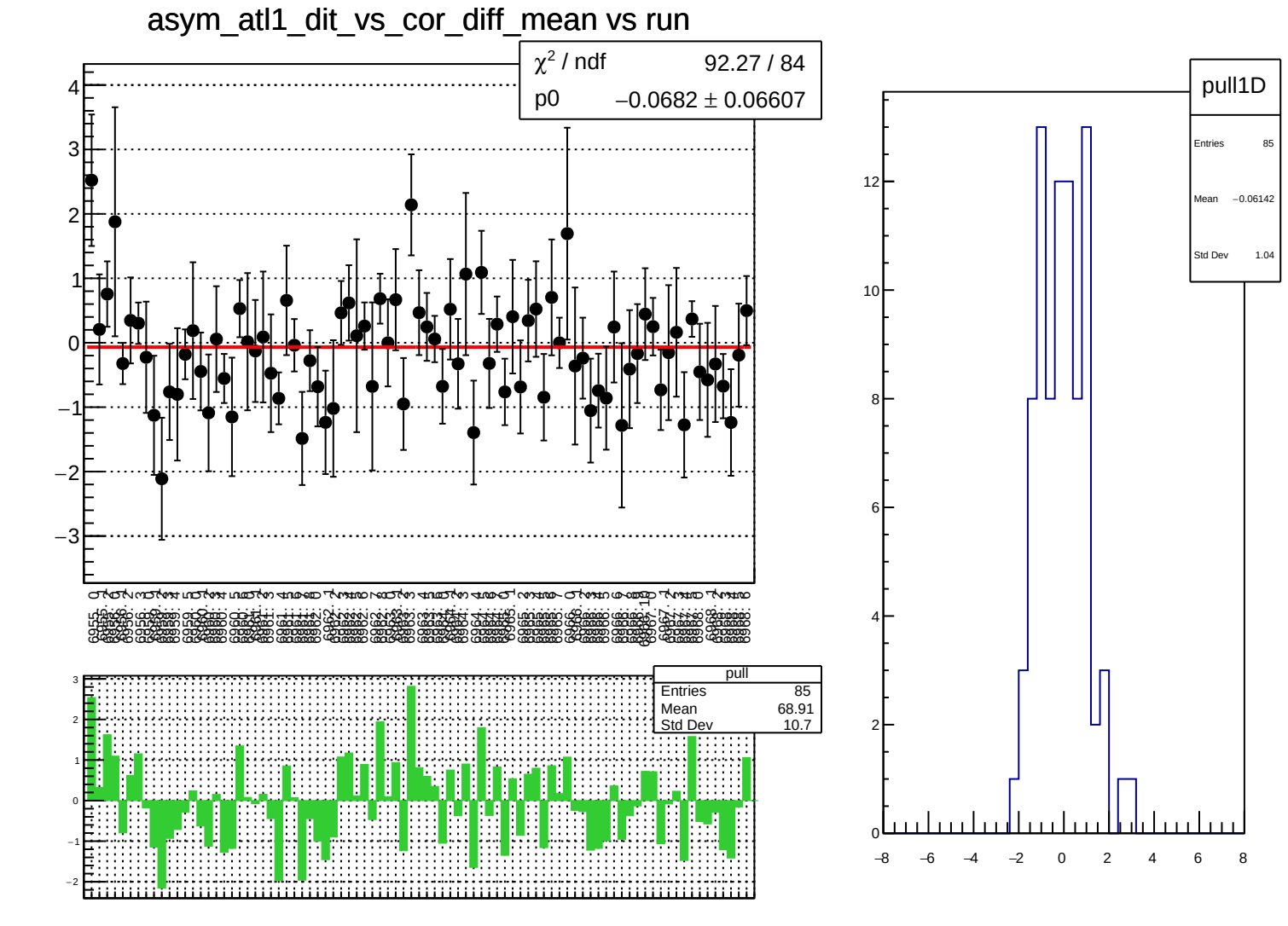

pull1D
Entries 85
Mean 0.01139
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

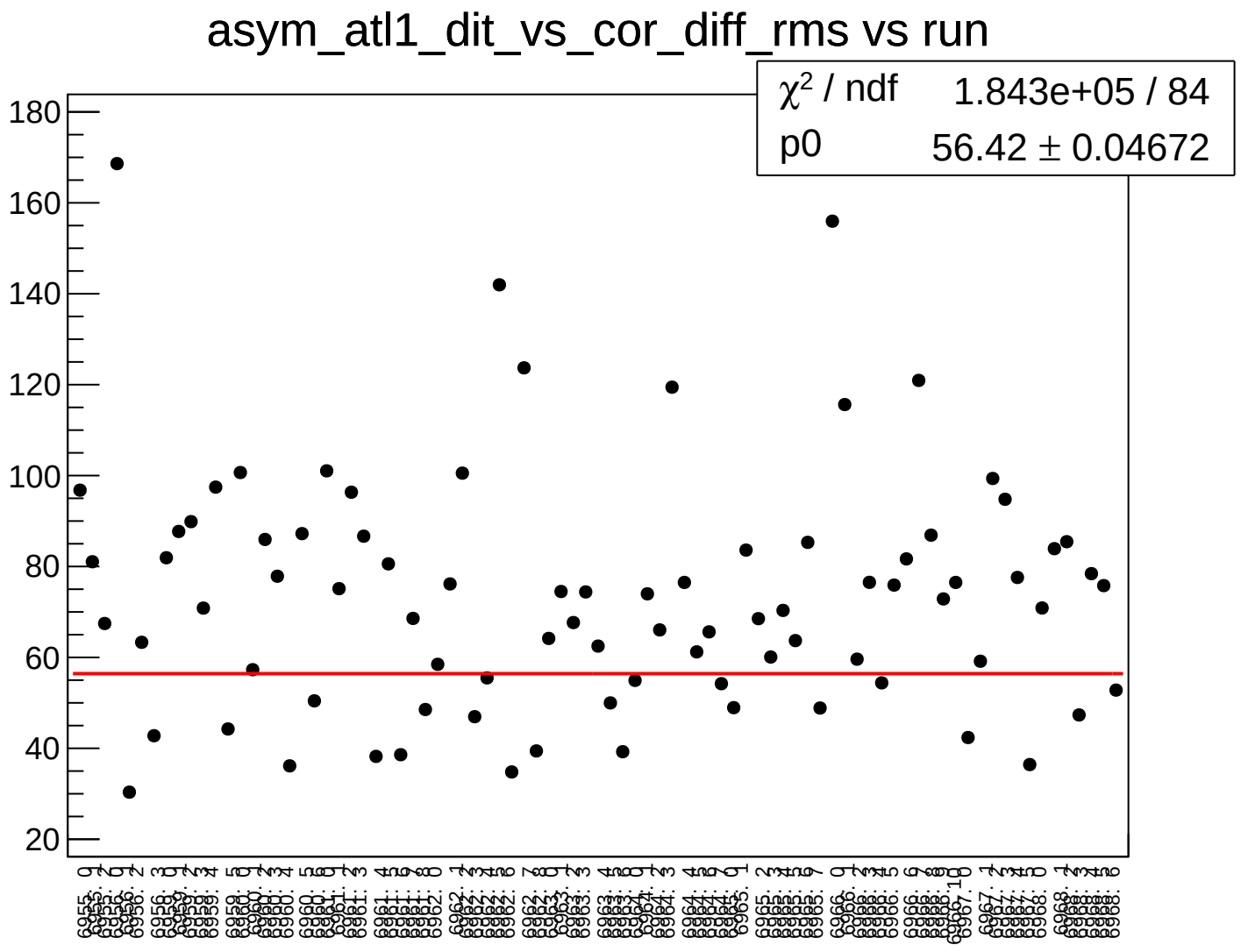

asym_atl1_rms vs run
$\chi^2$ / ndf 611.5 / 84
p0 2607 ± 2.035
2850
2800
2750
2700
2650
2600
2550
2500
2450

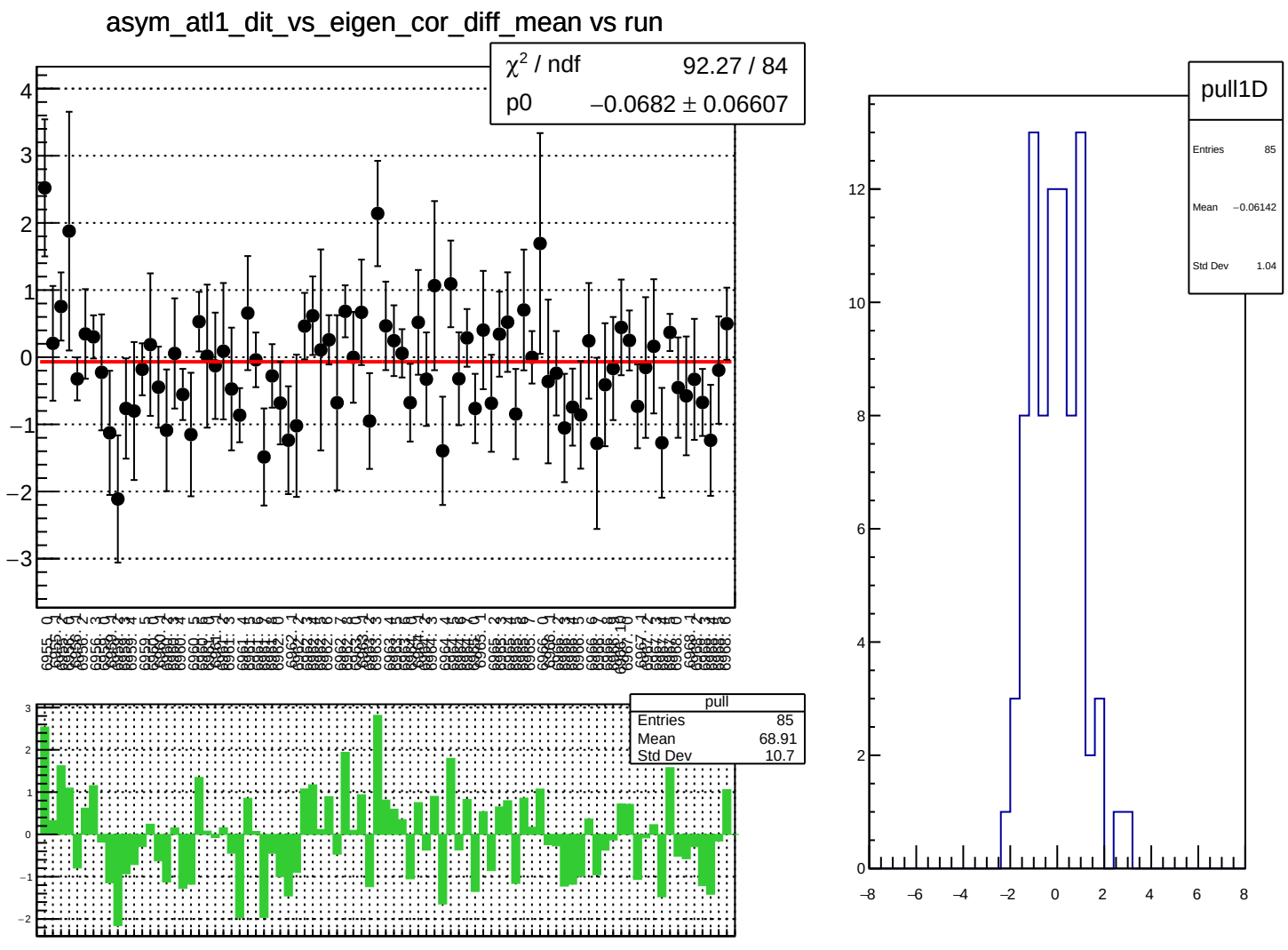

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 72.94 / 84
p0 9.06e−14 ± 6.155e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 85
Mean −87.01
Std Dev 0
2
1
0
−1
−2

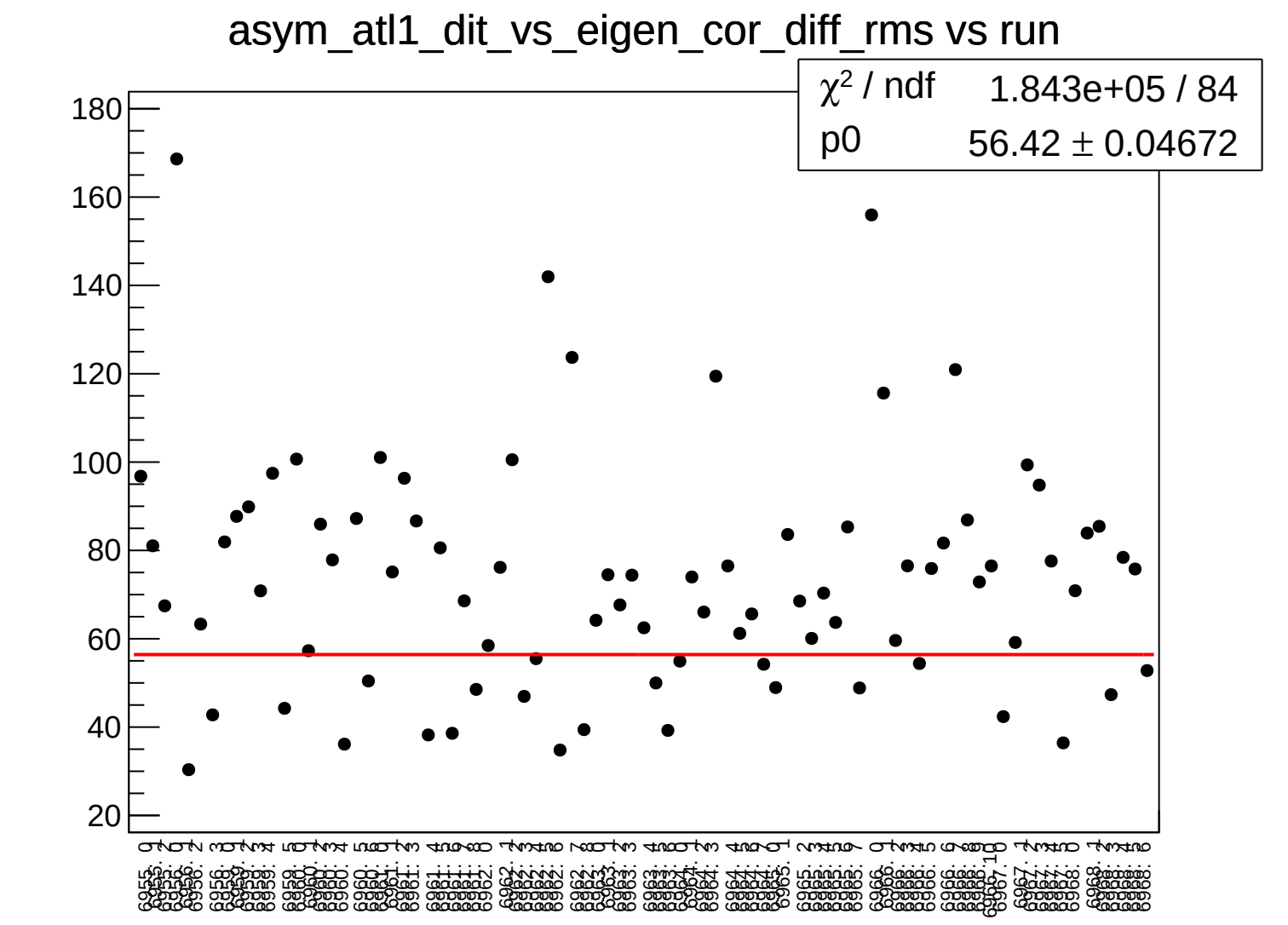

pull1D
Entries 85
Mean 0.02995
Std Dev 0.9259
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

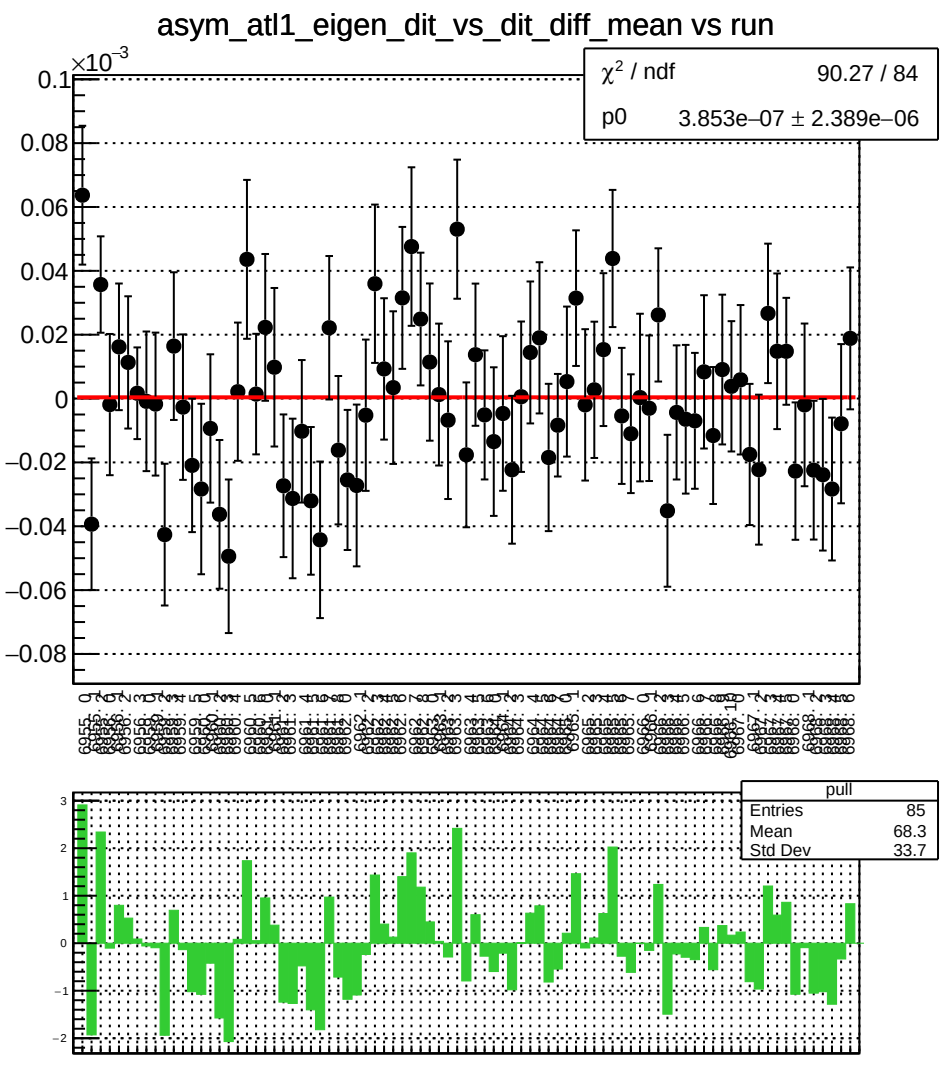

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.041e+06 / 84
p0 3.374e−11 ± 4.352e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

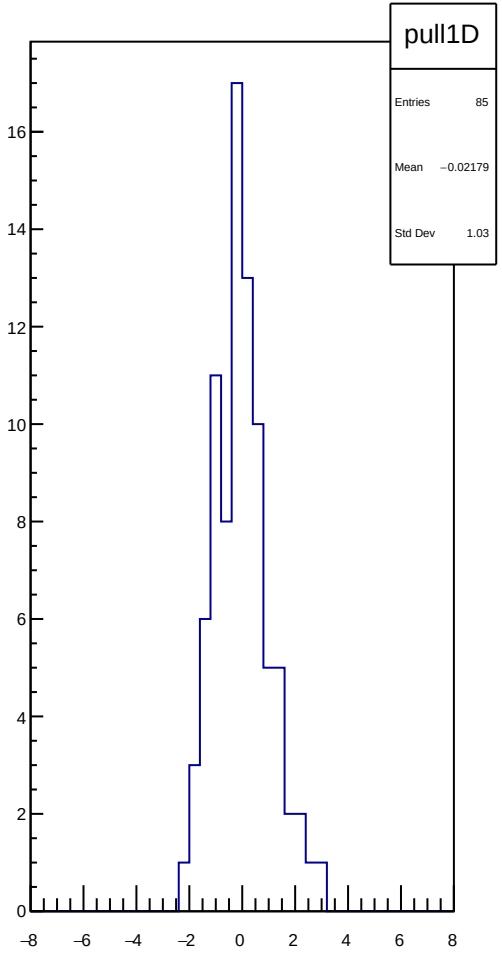

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 92.27 / 84
p0 −0.0682 ± 0.06607
pull
Entries 85
Mean 68.91
Std Dev 10.7
pull1D
Entries 85
Mean −0.06142
Std Dev 1.04

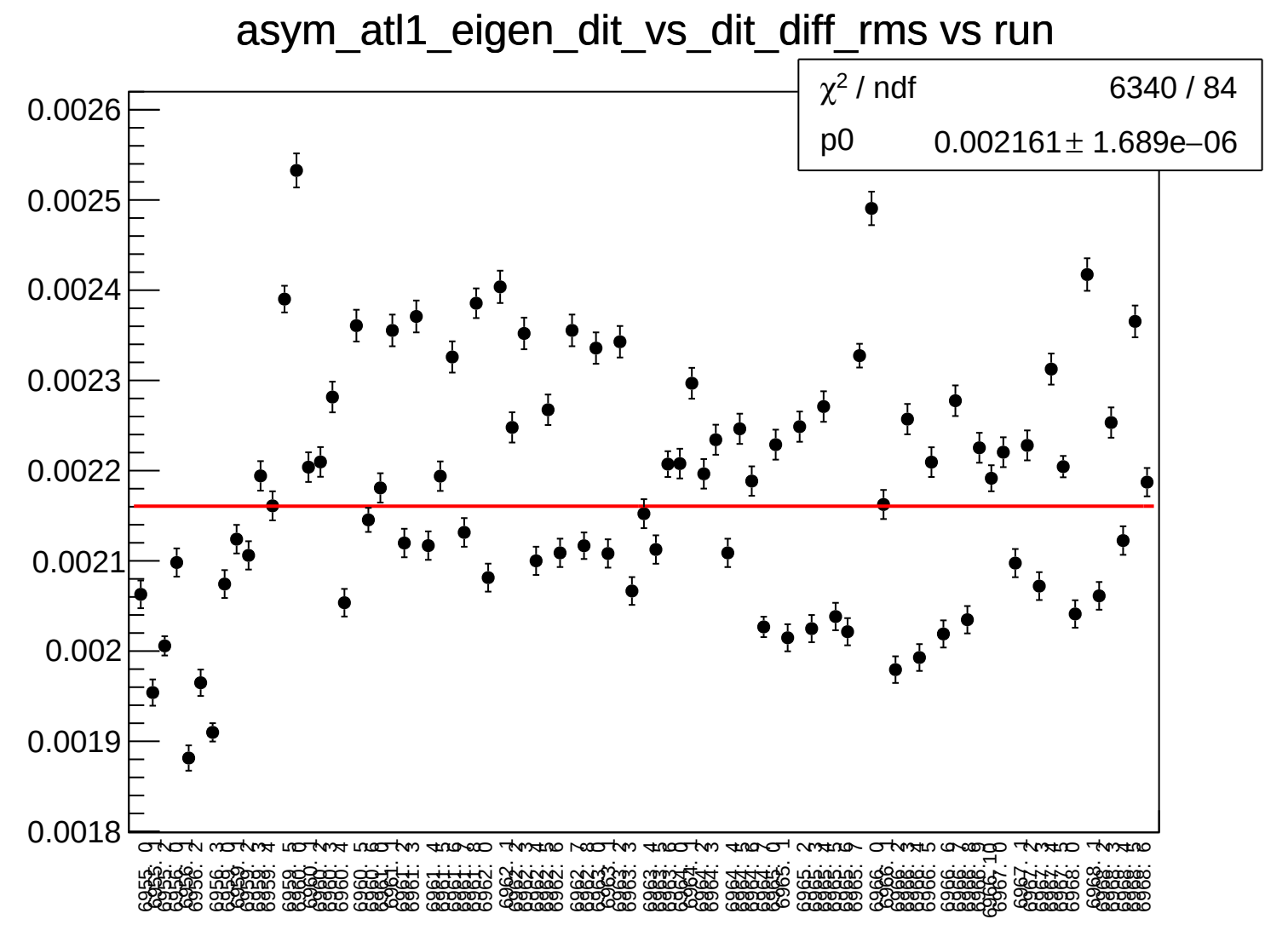

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.843e+05 / 84
p0 56.42 ± 0.04672
180
160
140
120
100
80
60
40
20

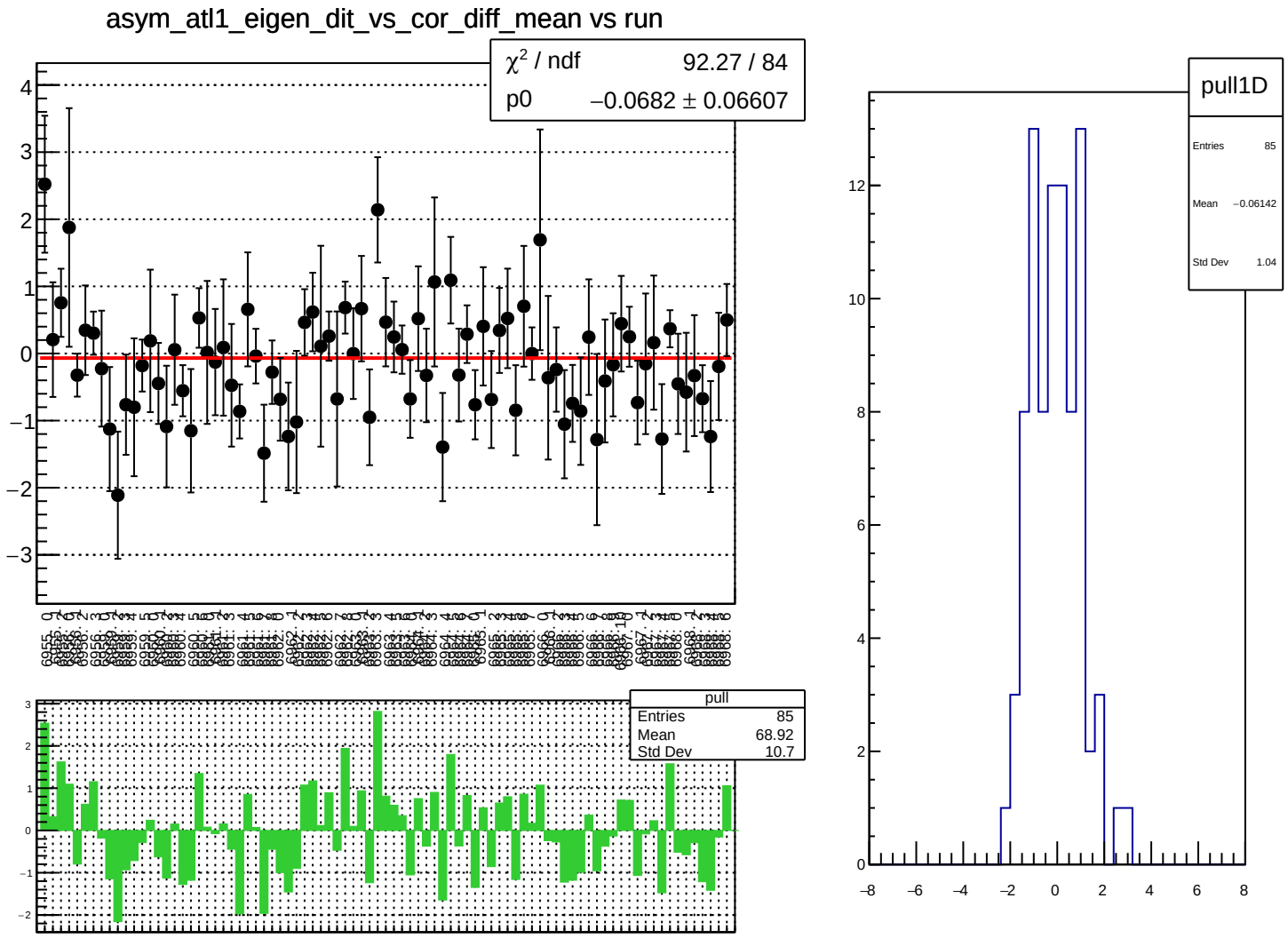

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.27 / 84
p0 −0.0682 ± 0.06607
pull
Entries 85
Mean 68.91
Std Dev 10.7
pull1D
Entries 85
Mean −0.06142
Std Dev 1.04

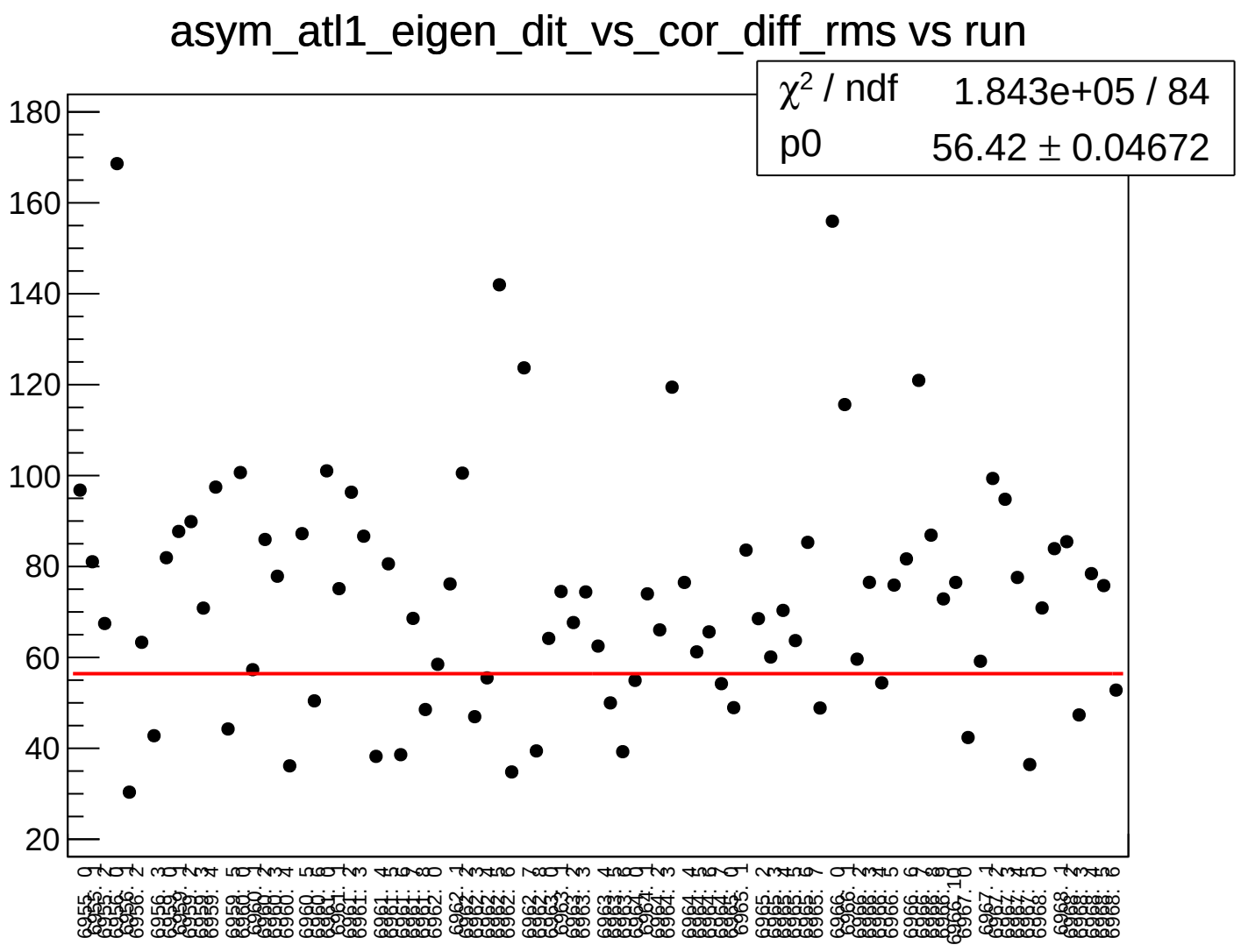

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.843e+05 / 84
p0 56.42 ± 0.04672
180
160
140
120
100
80
60
40
20

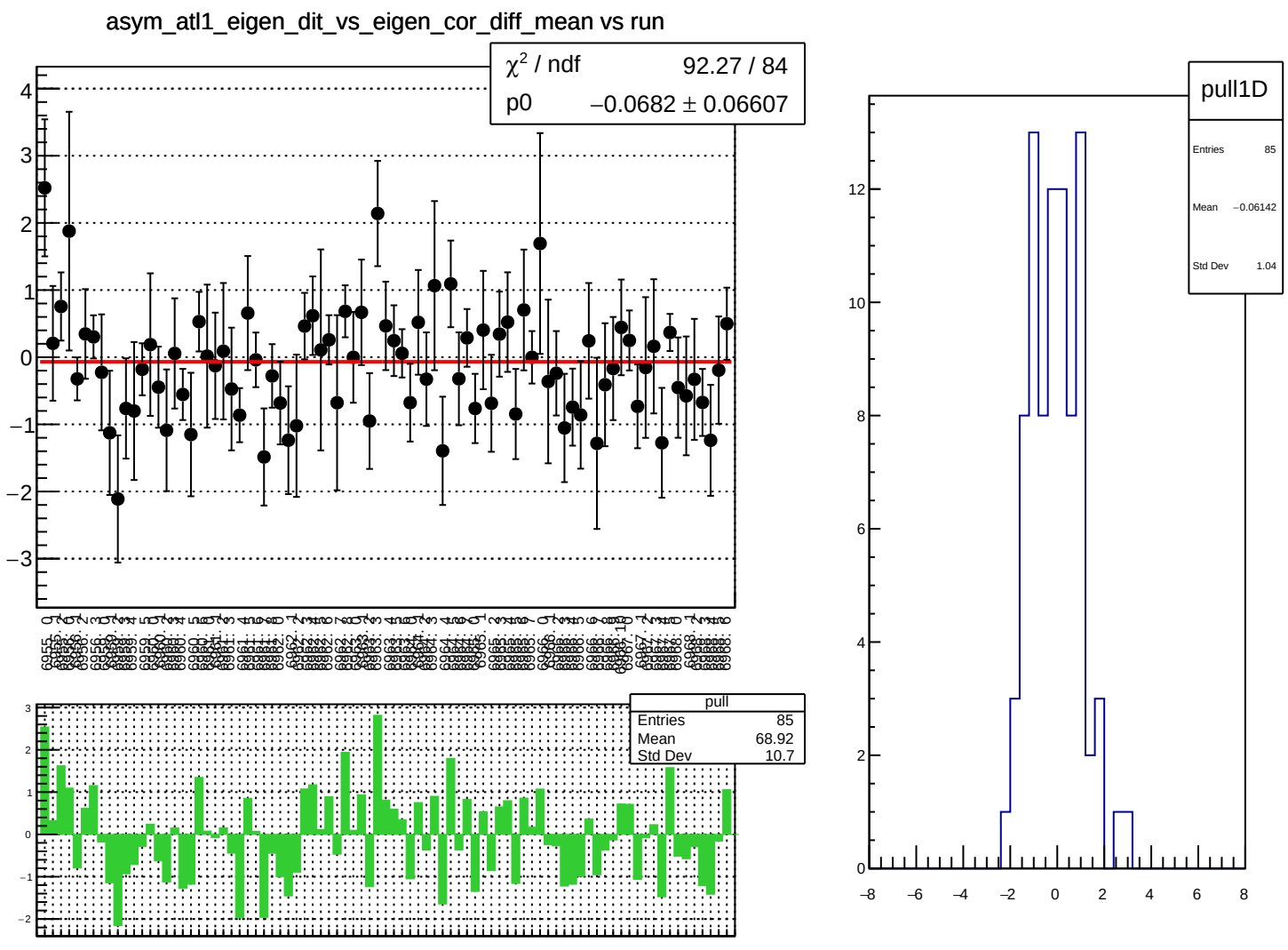

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.27 / 84
p0 3.853e−07 ± 2.389e−06
pull
Entries 85
Mean 68.3
Std Dev 33.7

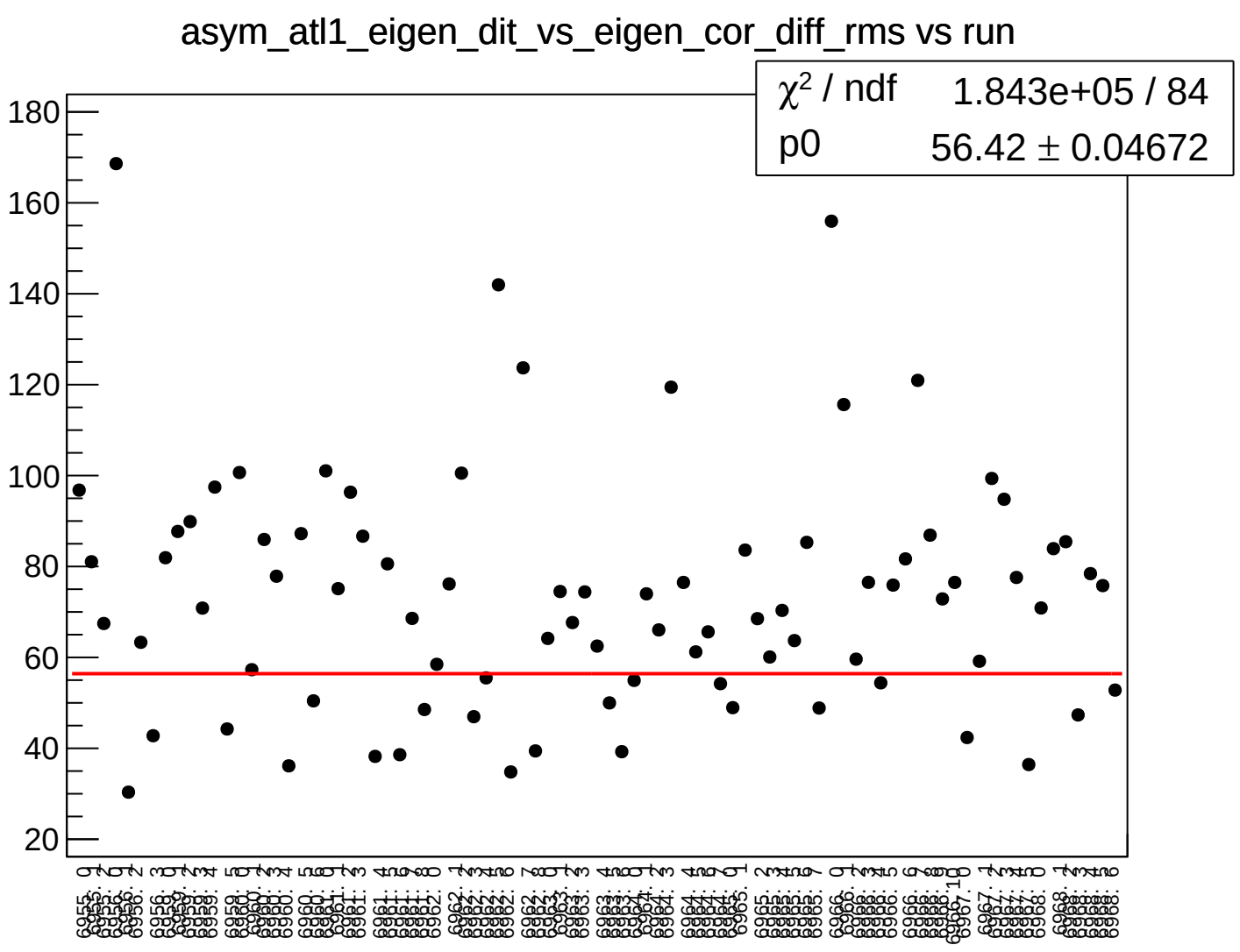

pull1D
Entries 85
Mean −0.02179
Std Dev 1.03

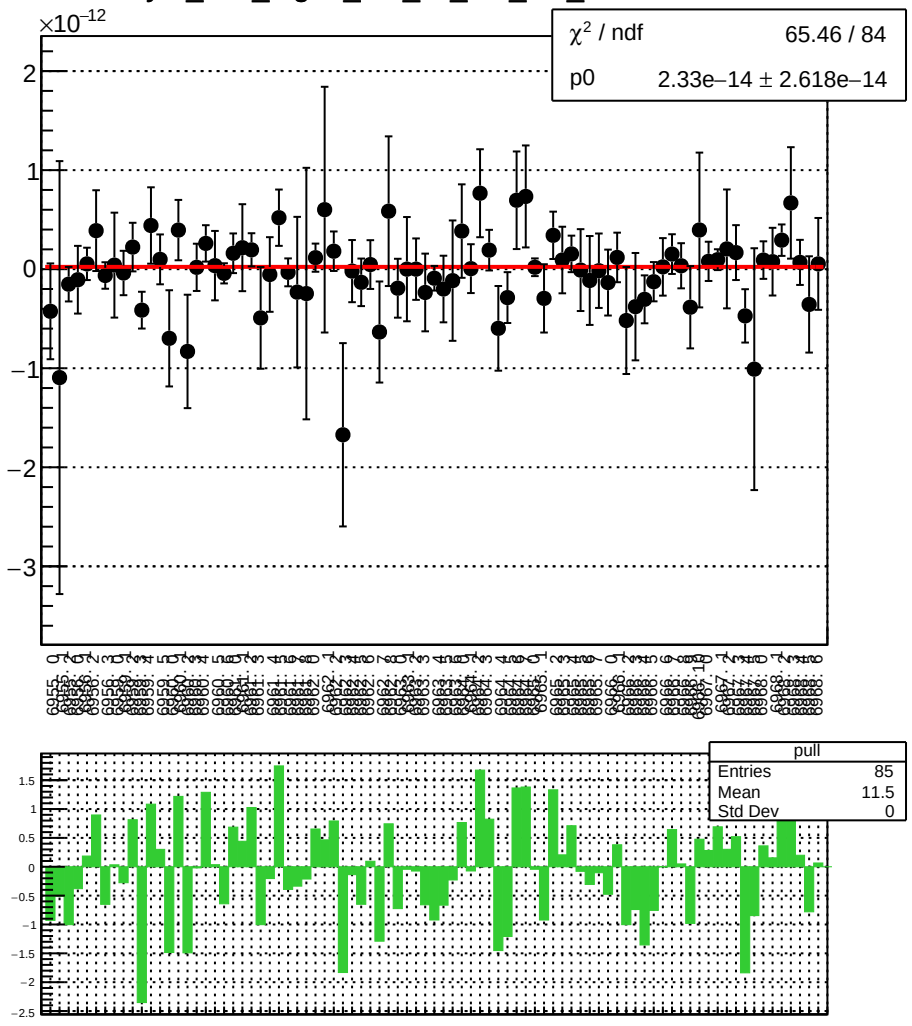

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6340 / 84
p0 0.002161 ± 1.689e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

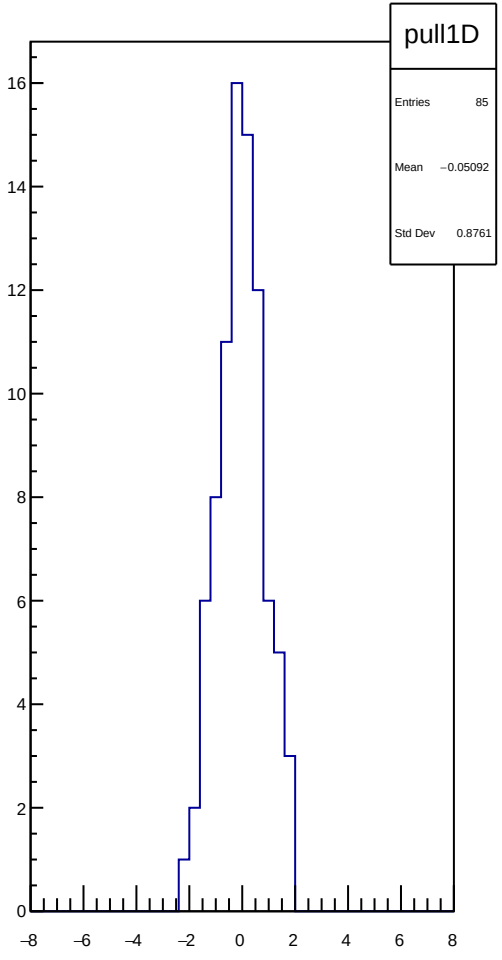

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.27 / 84
p0 −0.0682 ± 0.06607
pull
Entries 85
Mean 68.92
Std Dev 10.7
pull1D
Entries 85
Mean −0.06142
Std Dev 1.04

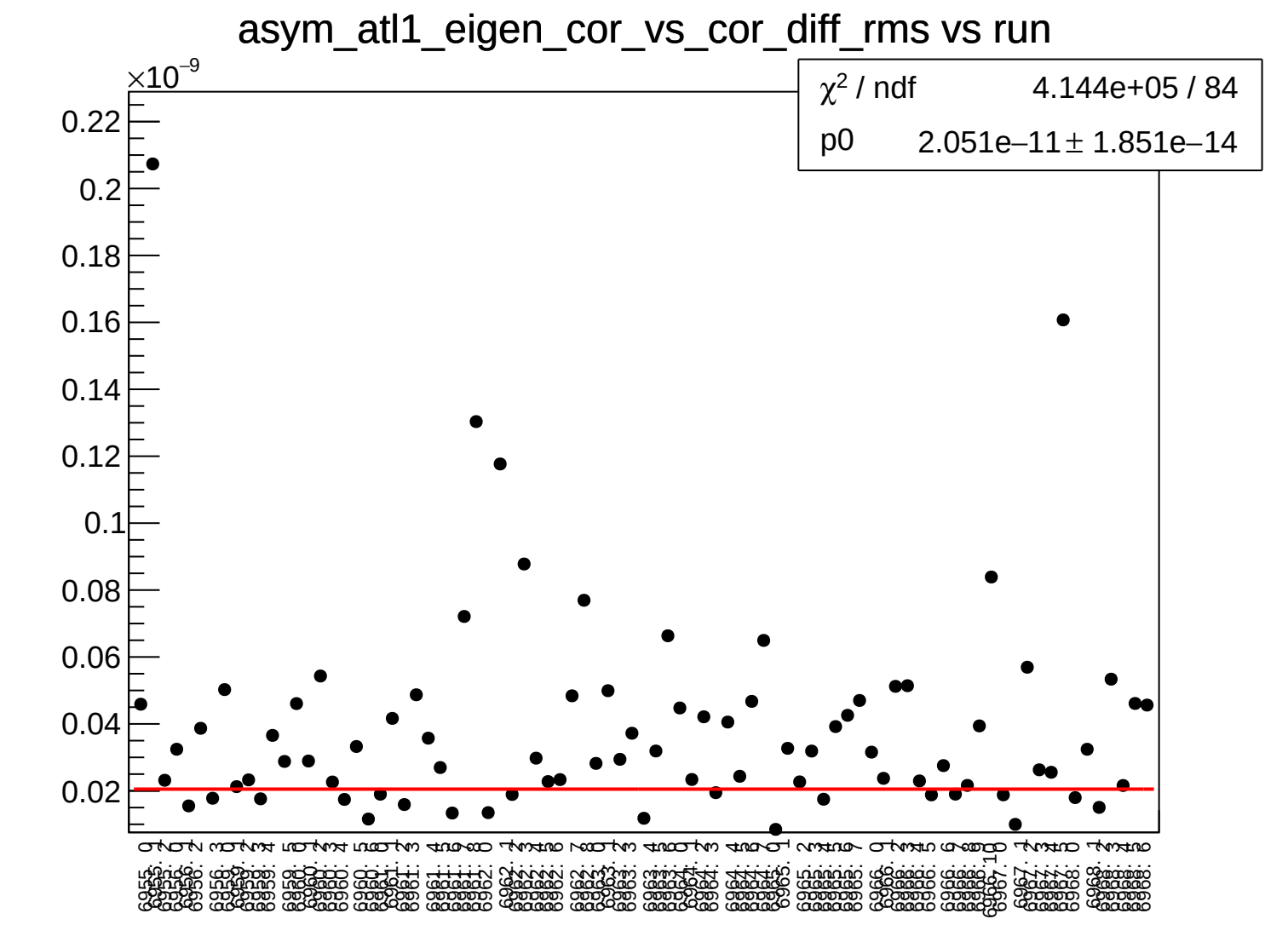

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.843e+05 / 84
p0 56.42 ± 0.04672
180
160
140
120
100
80
60
40
20

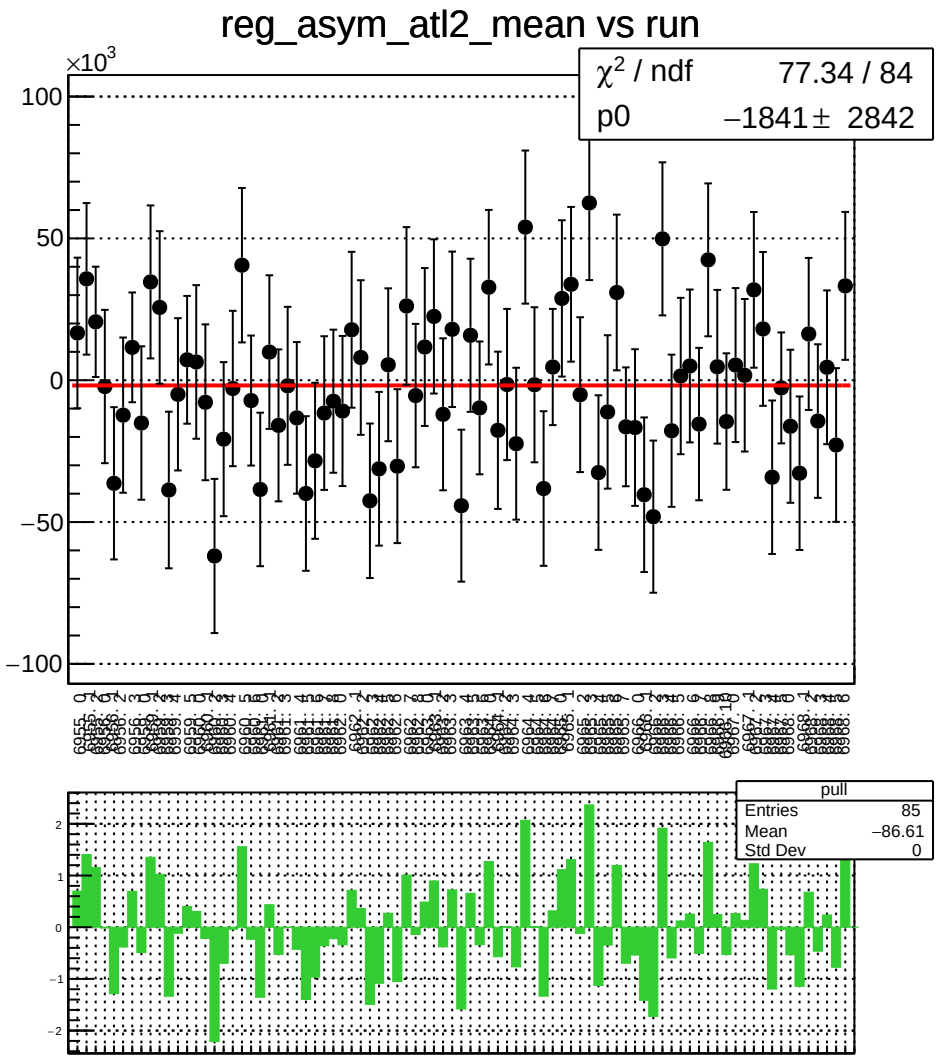

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.27 / 84
p0 −0.0682 ± 0.06607
pull
Entries 85
Mean 68.92
Std Dev 10.7
pull1D
Entries 85
Mean −0.06142
Std Dev 1.04

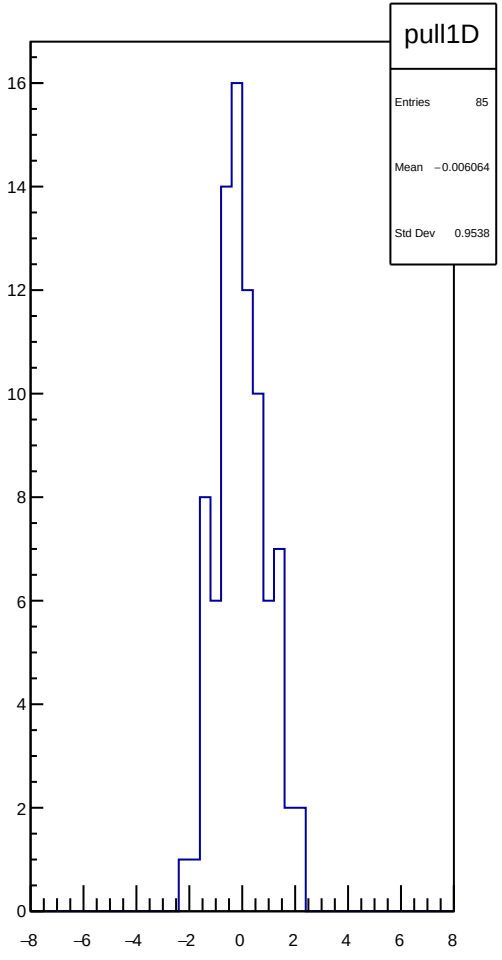

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.843e+05 / 84
p0 56.42 ± 0.04672
180
160
140
120
100
80
60
40
20

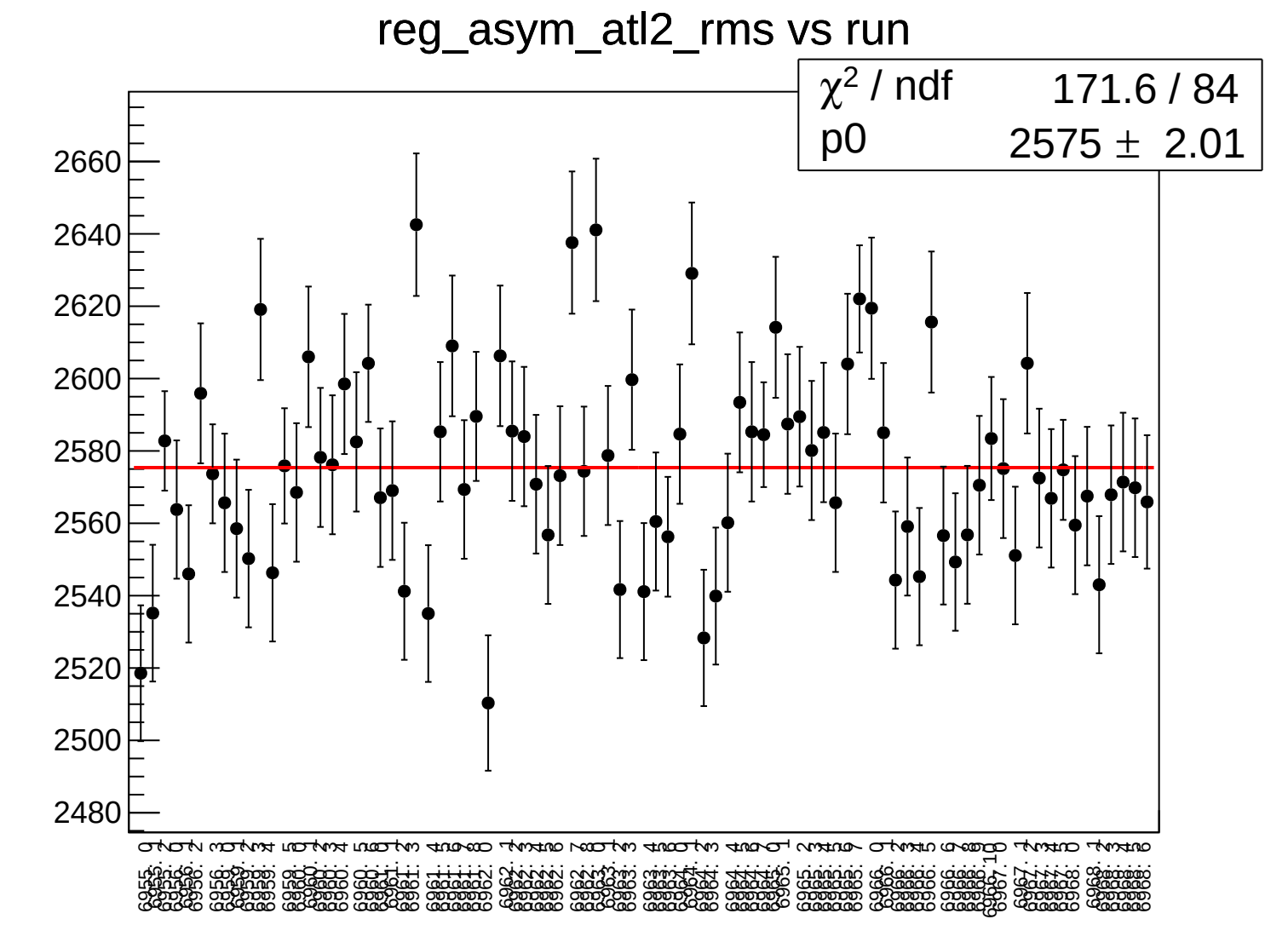

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.46 / 84
p0 2.33e−14 ± 2.618e−14
pull
Entries 85
Mean 11.5
Std Dev 0

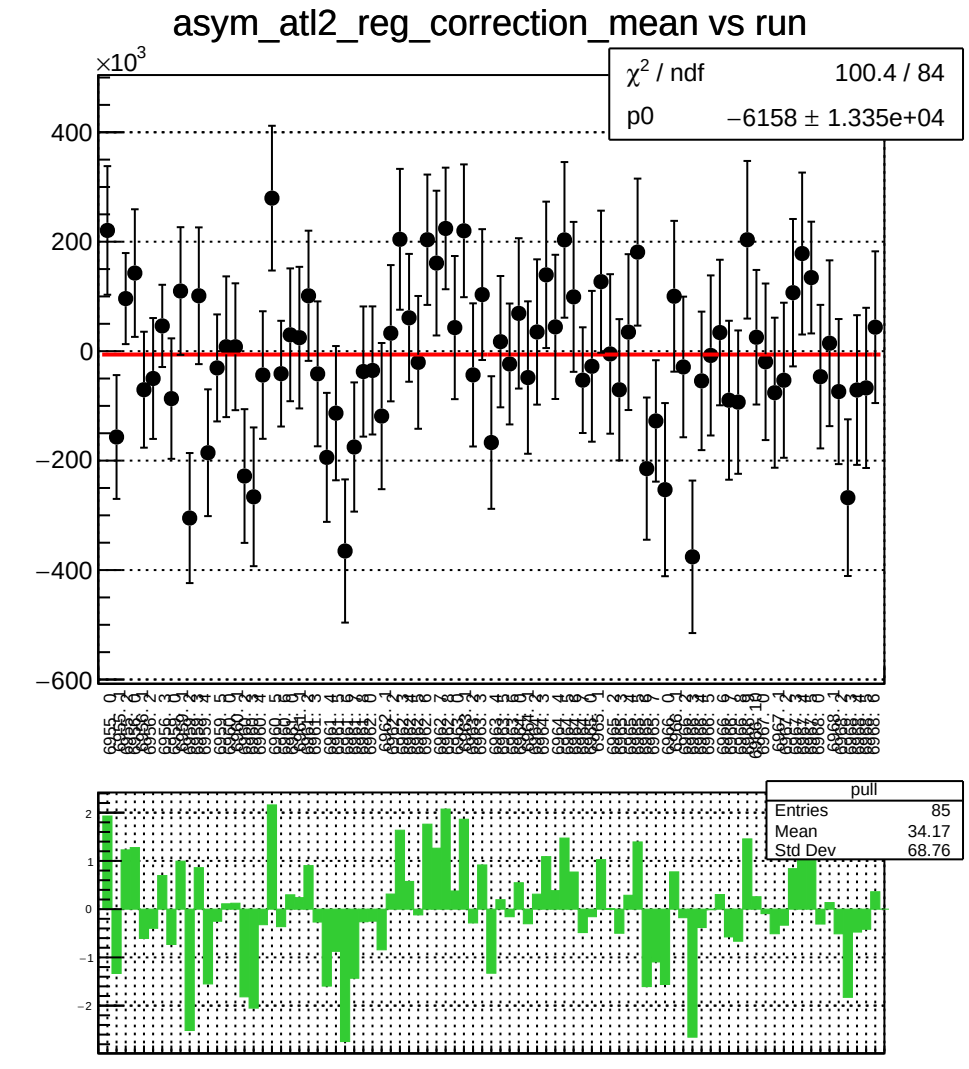

pull1D
Entries 85
Mean −0.05092
Std Dev 0.8761

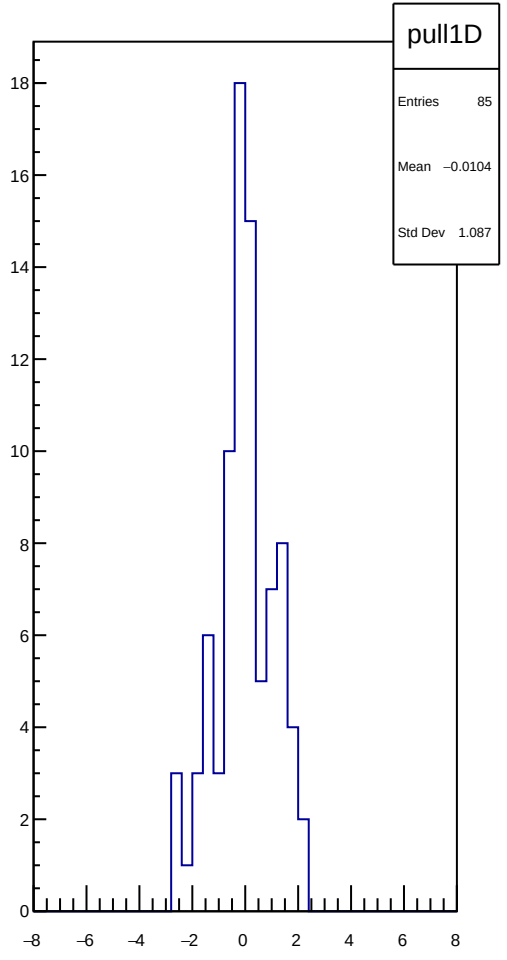

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.144e+05 / 84
p0 2.051e−11 ± 1.851e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

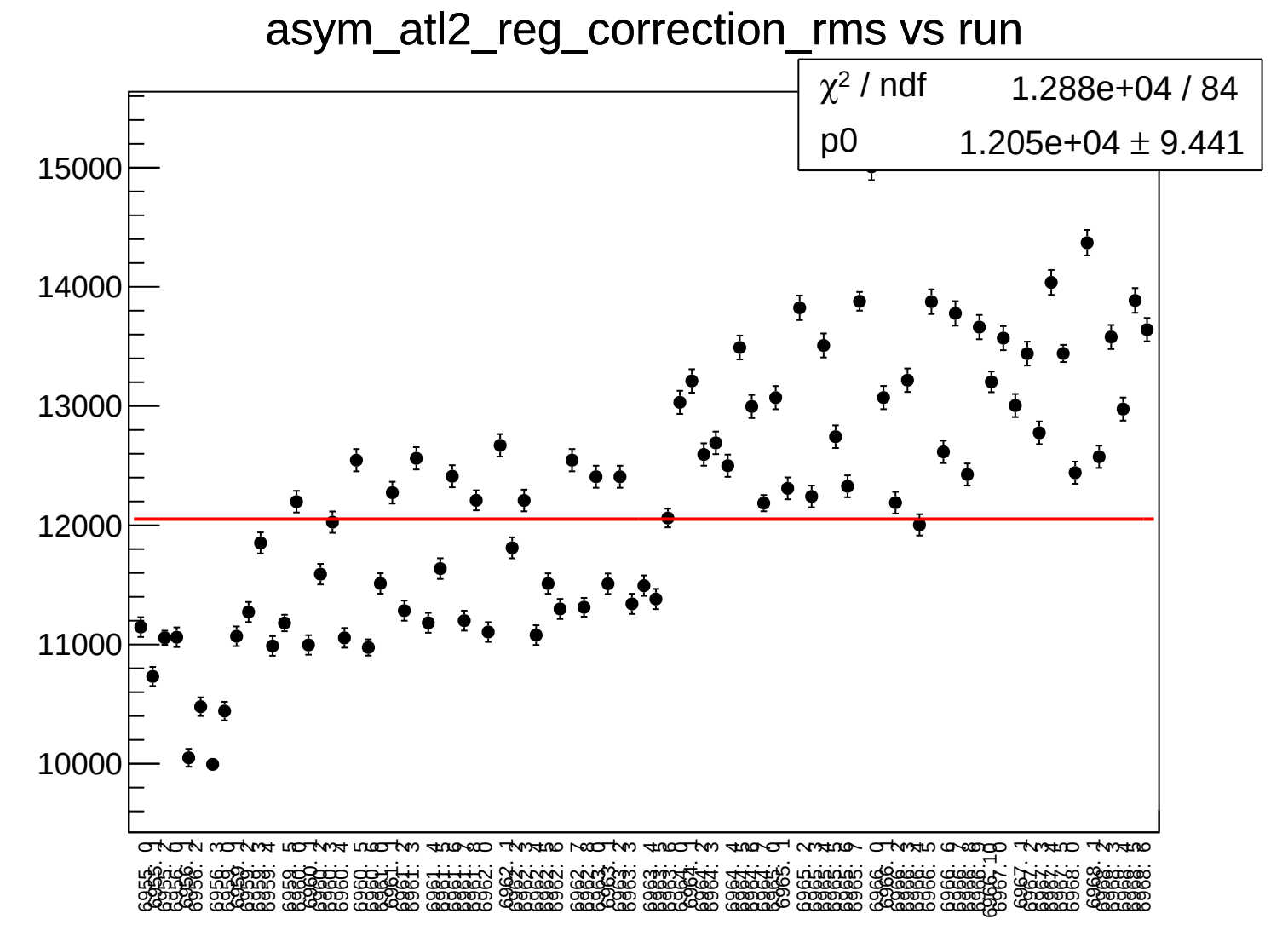

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 77.34 / 84
p0 −1841 ± 2842
pull
Entries 85
Mean −86.61
Std Dev 0

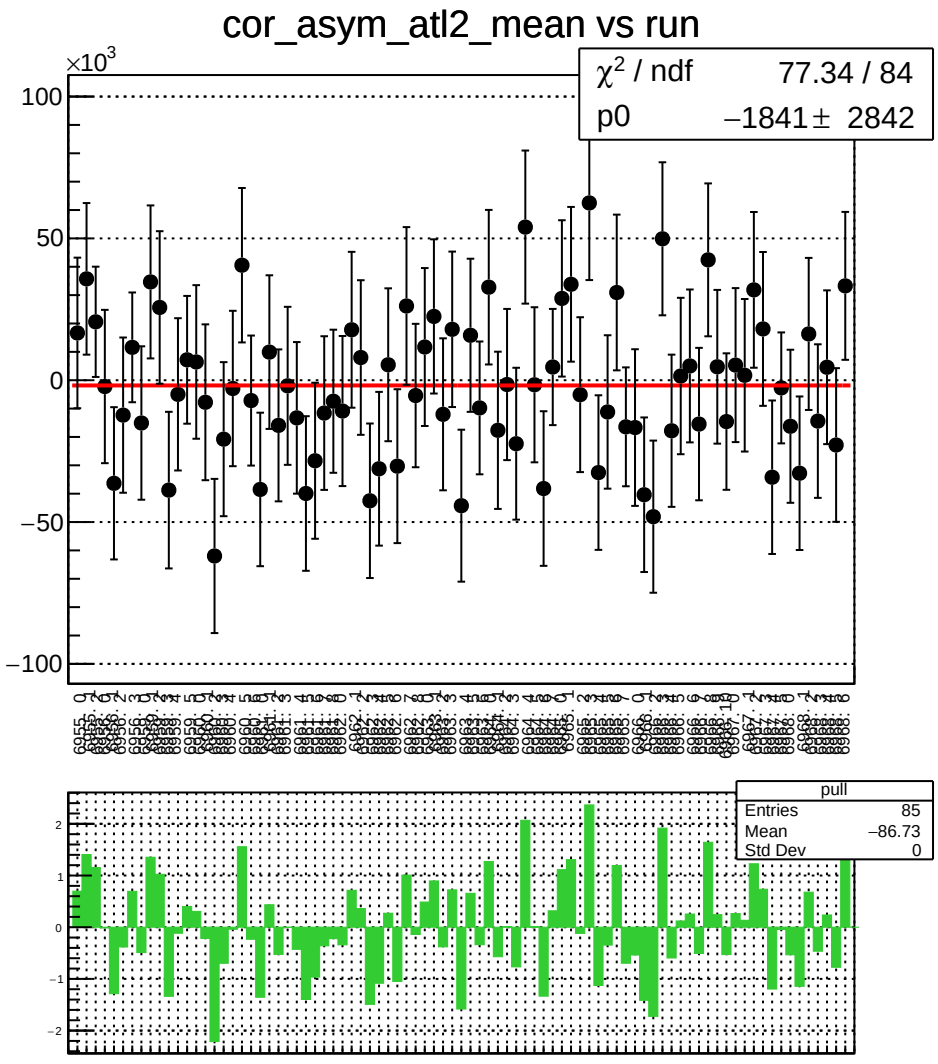

pull1D
Entries 85
Mean −0.006064
Std Dev 0.9538

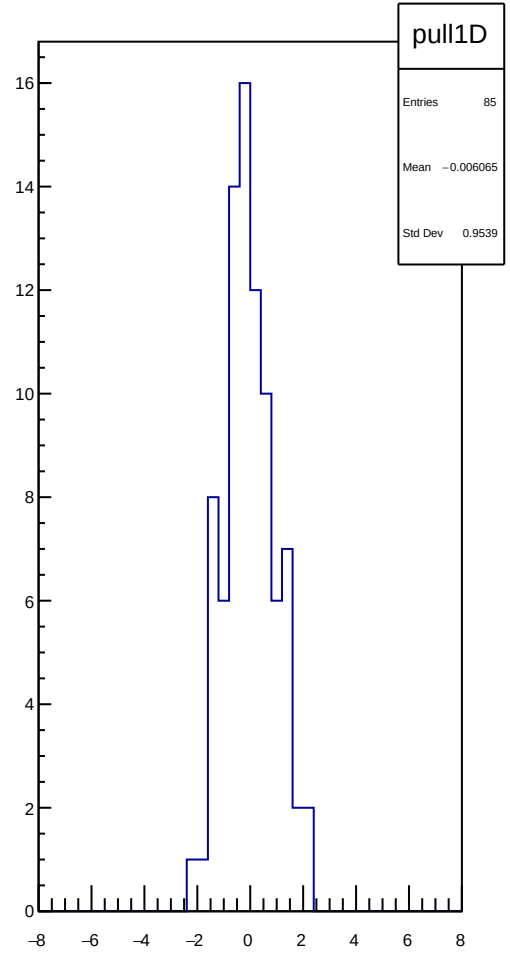

reg_asym_atl2_rms vs run
χ² / ndf 171.6 / 84
p0 2575 ± 2.01
2660
2640
2620
2600
2580
2560
2540
2520
2500
2480

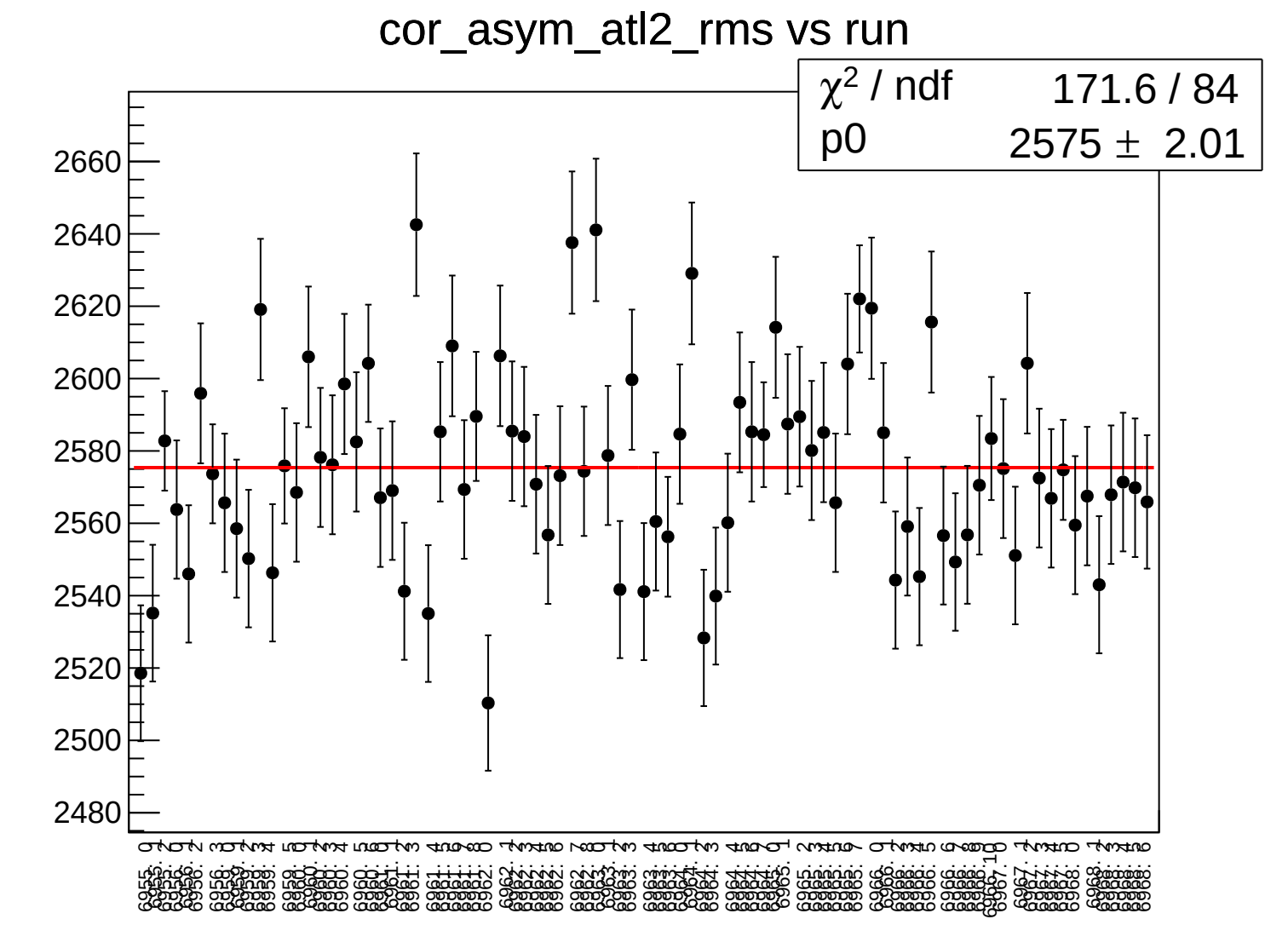

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 100.4 / 84
p0 −6158 ± 1.335e+04
400
200
0
−200
−400
−600
pull
Entries 85
Mean 34.17
Std Dev 68.76
2
1
0
−1
−2

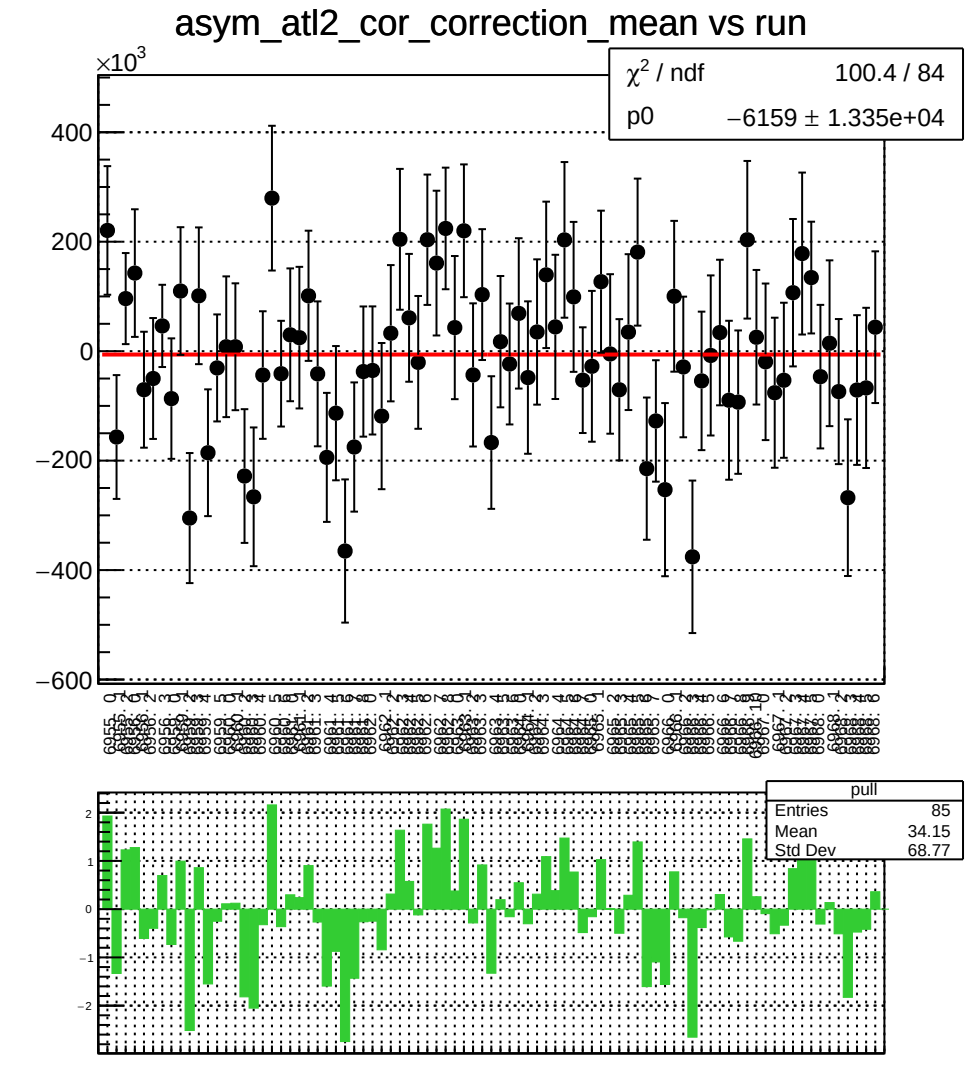

pull1D
Entries 85
Mean −0.0104
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

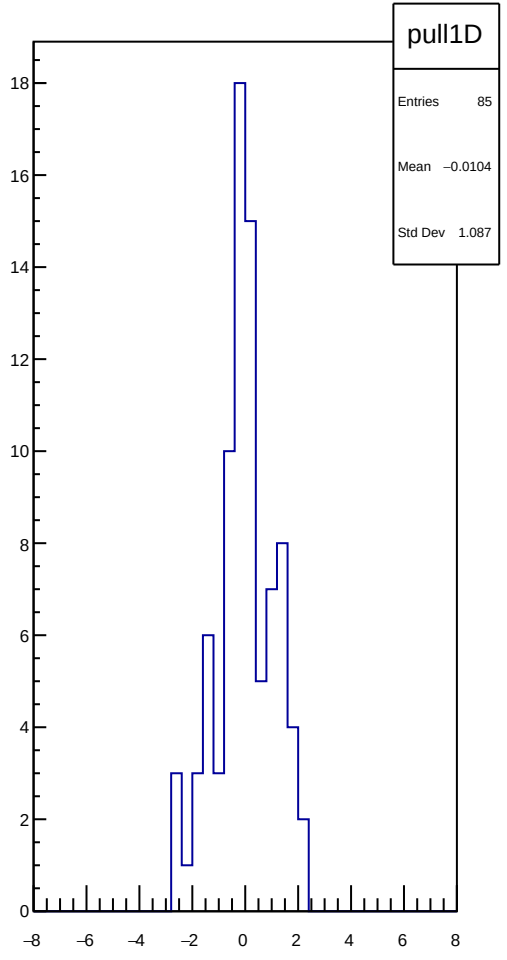

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.288e+04 / 84
p0 1.205e+04 ± 9.441
15000
14000
13000
12000
11000
10000

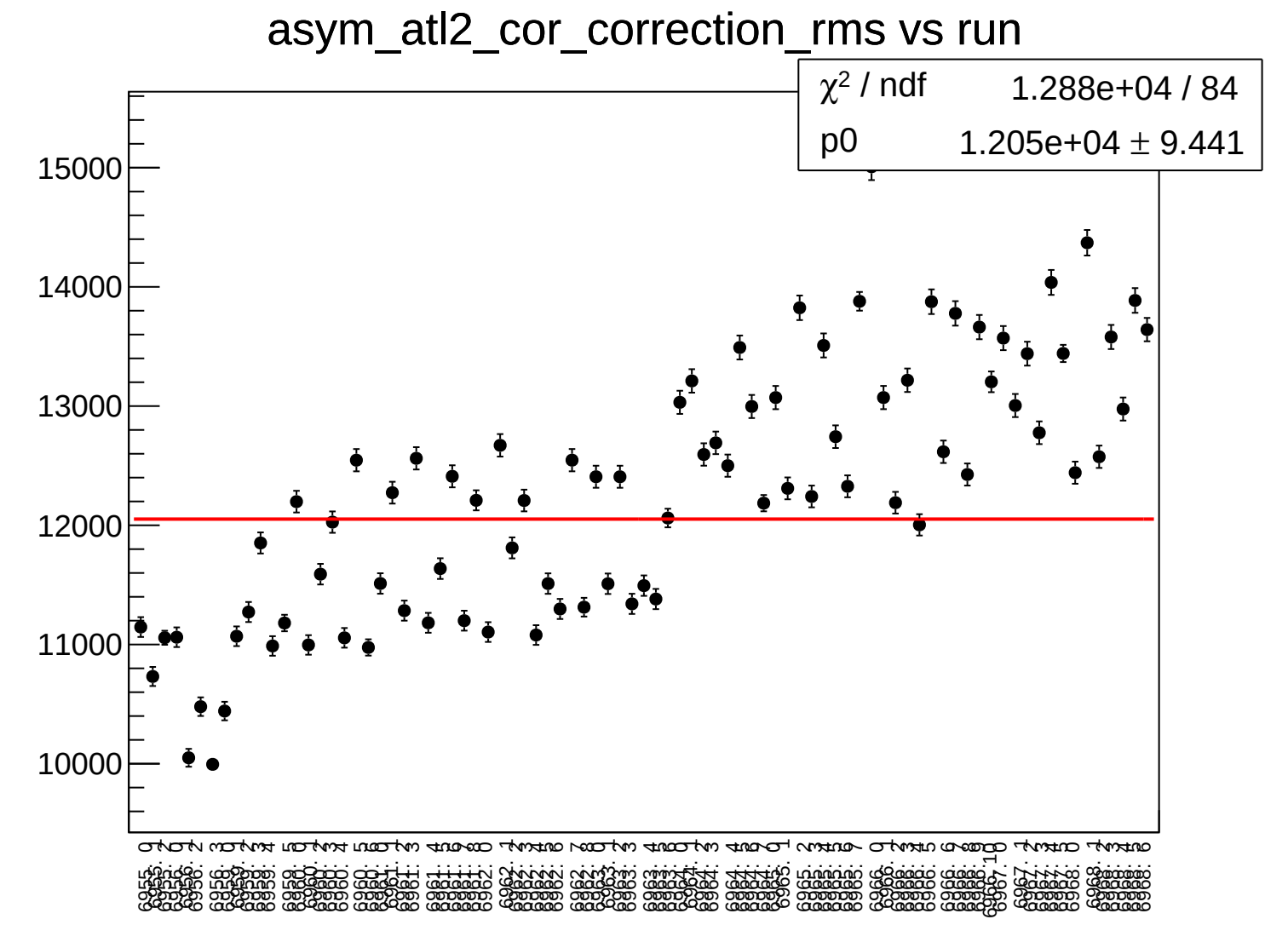

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 77.34 / 84
p0 −1841 ± 2842
100
50
0
−50
−100
pull
Entries 85
Mean −86.73
Std Dev 0
2
1
0
−1
−2

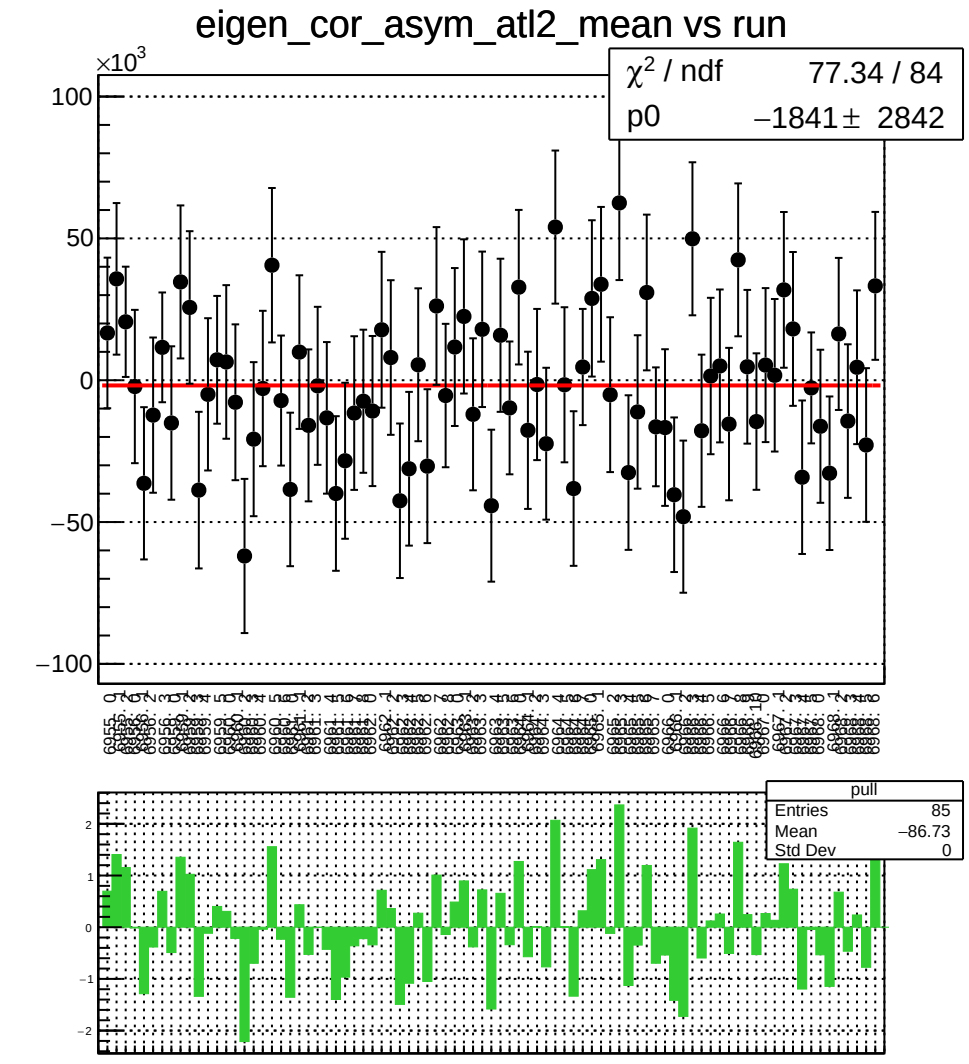

pull1D
Entries 85
Mean −0.006065
Std Dev 0.9539
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

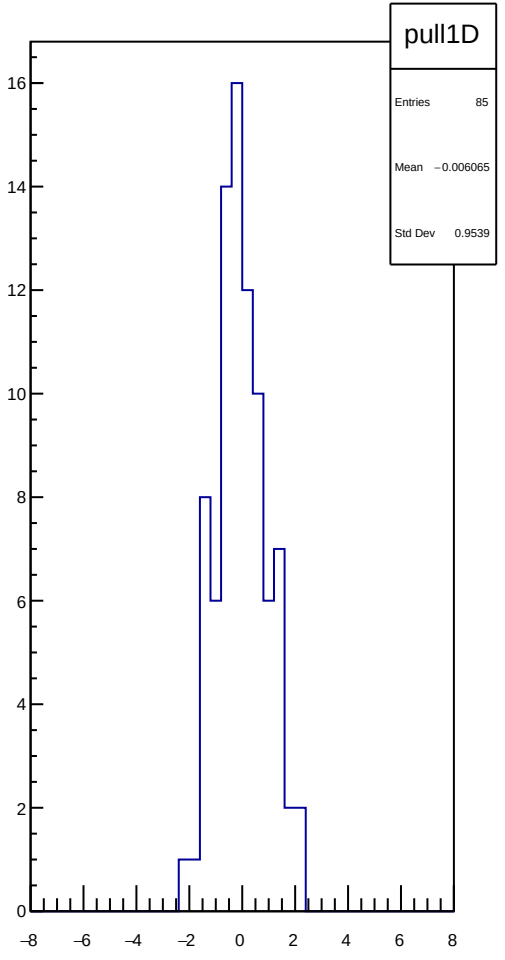

cor_asym_atl2_rms vs run
χ² / ndf 171.6 / 84
p0 2575 ± 2.01
2660
2640
2620
2600
2580
2560
2540
2520
2500
2480

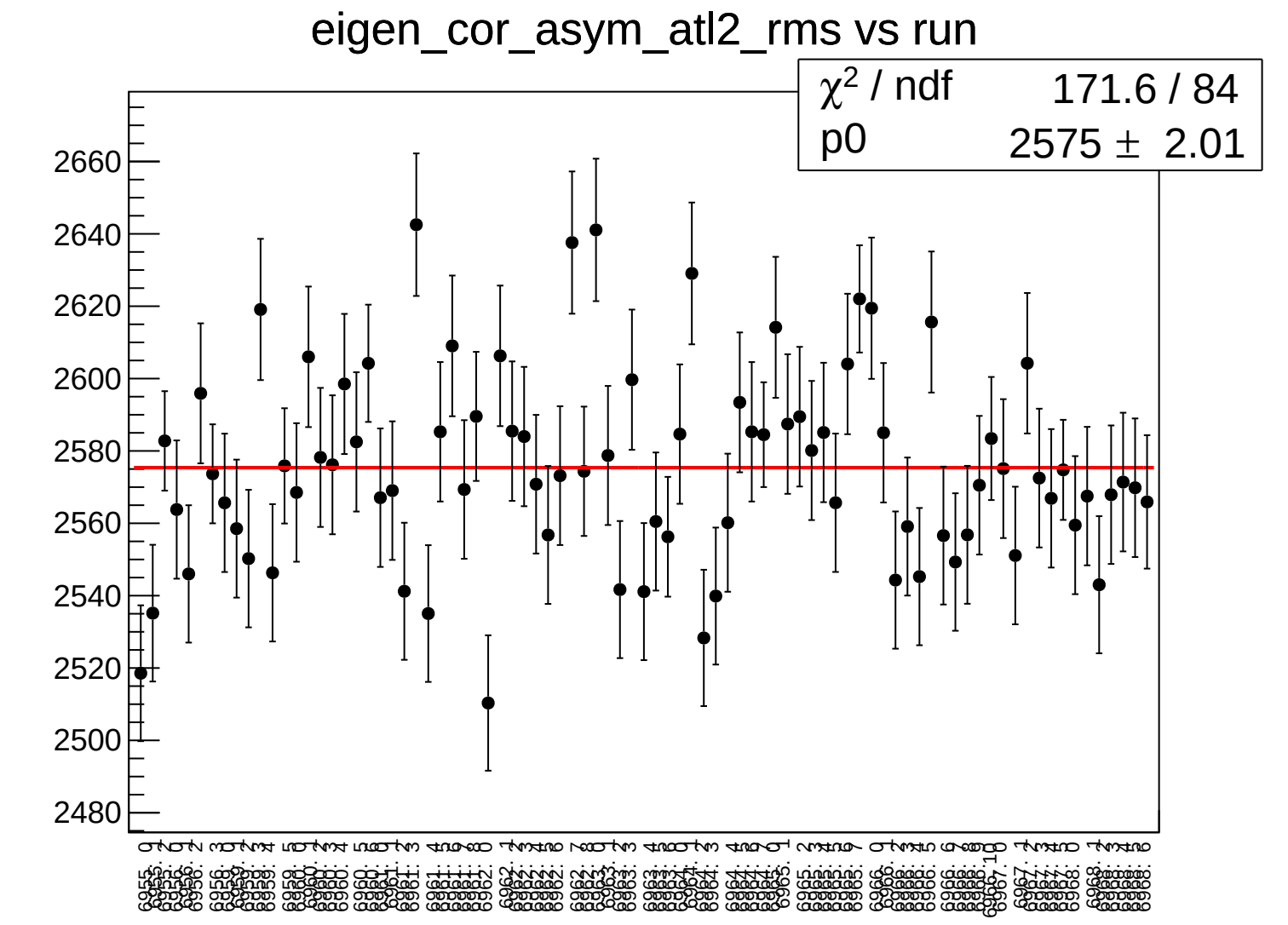

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 100.4 / 84
p0 −6159 ± 1.335e+04
400
200
0
−200
−400
−600
pull
Entries 85
Mean 34.15
Std Dev 68.77
2
1
0
−1
−2

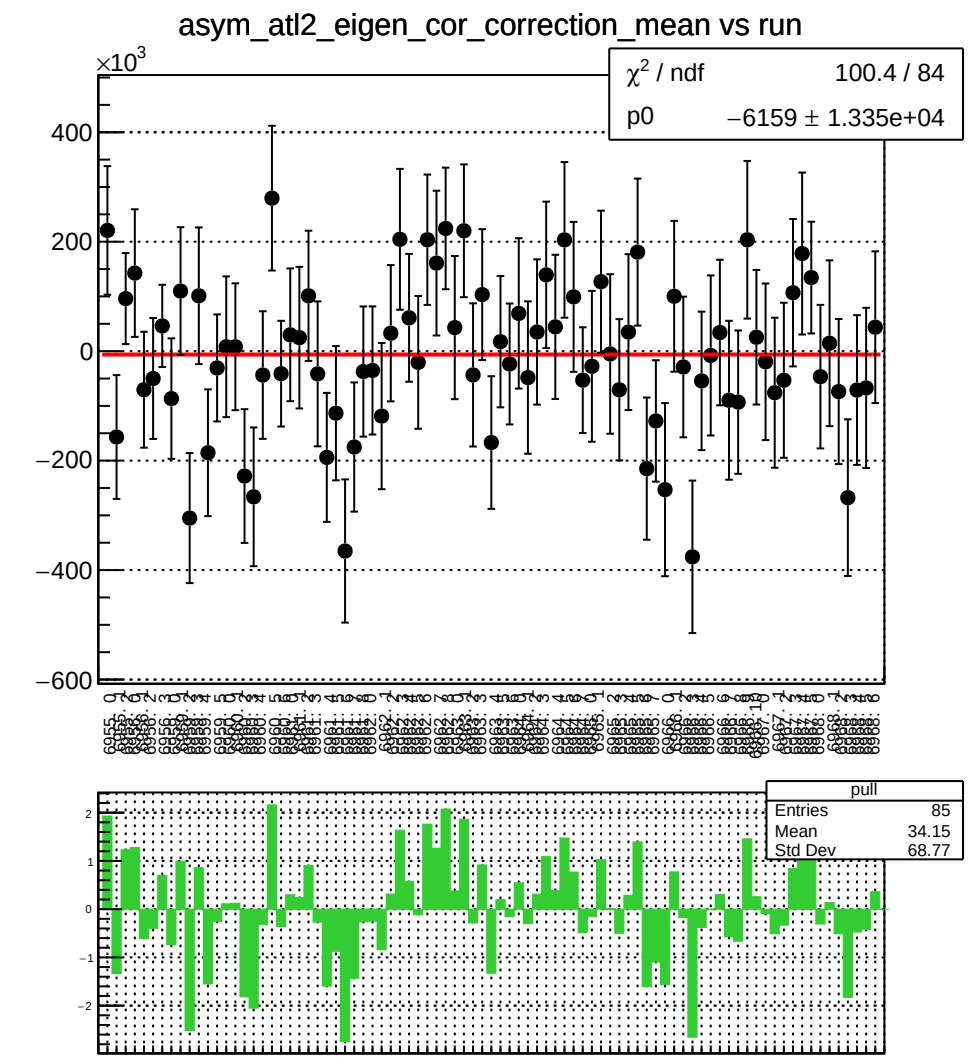

pull1D
Entries 85
Mean −0.0104
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

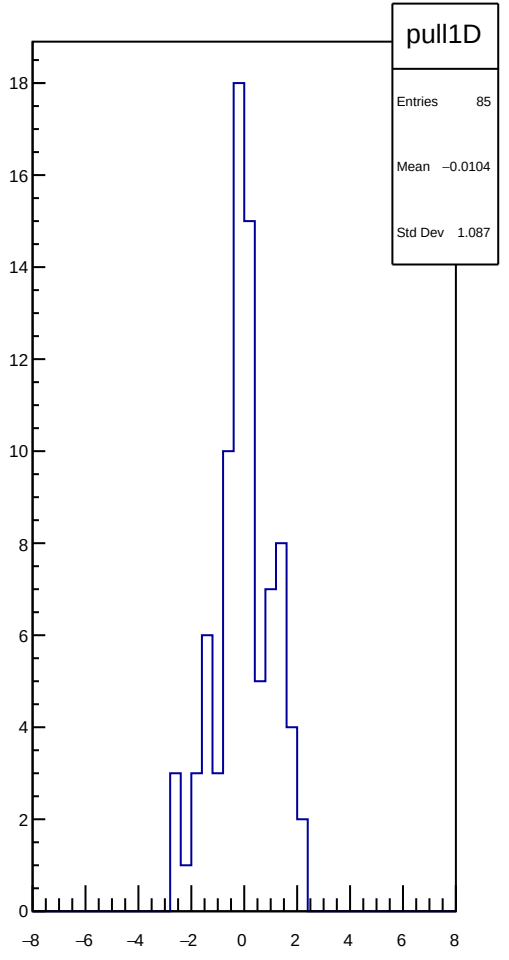

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.288e+04 / 84
p0 1.205e+04 ± 9.441
15000
14000
13000
12000
11000
10000

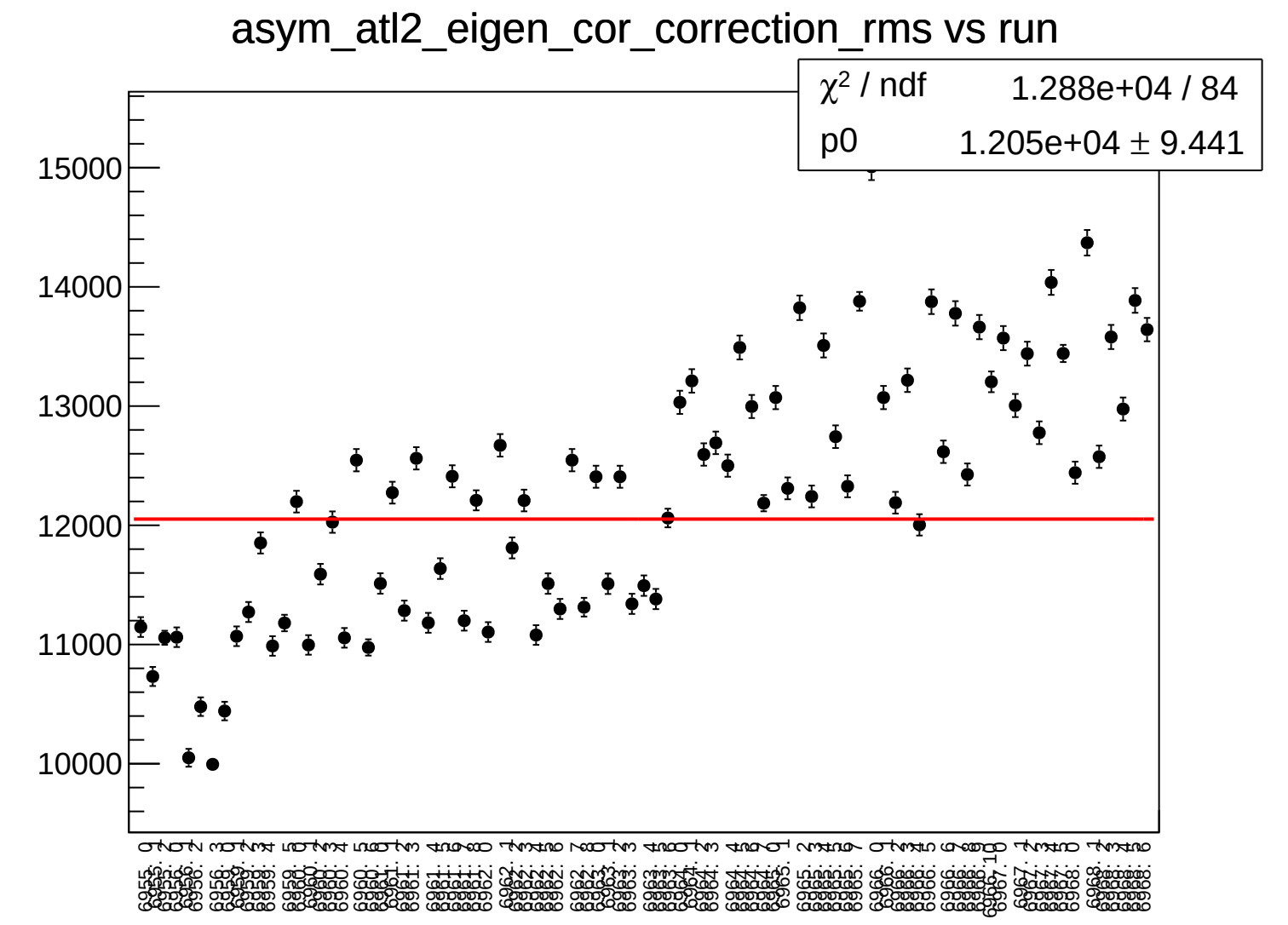

eigen_cor_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 77.34 / 84
p0 −1841 ± 2842
pull
Entries 85
Mean −86.73
Std Dev 0
2
1
0
−1
−2

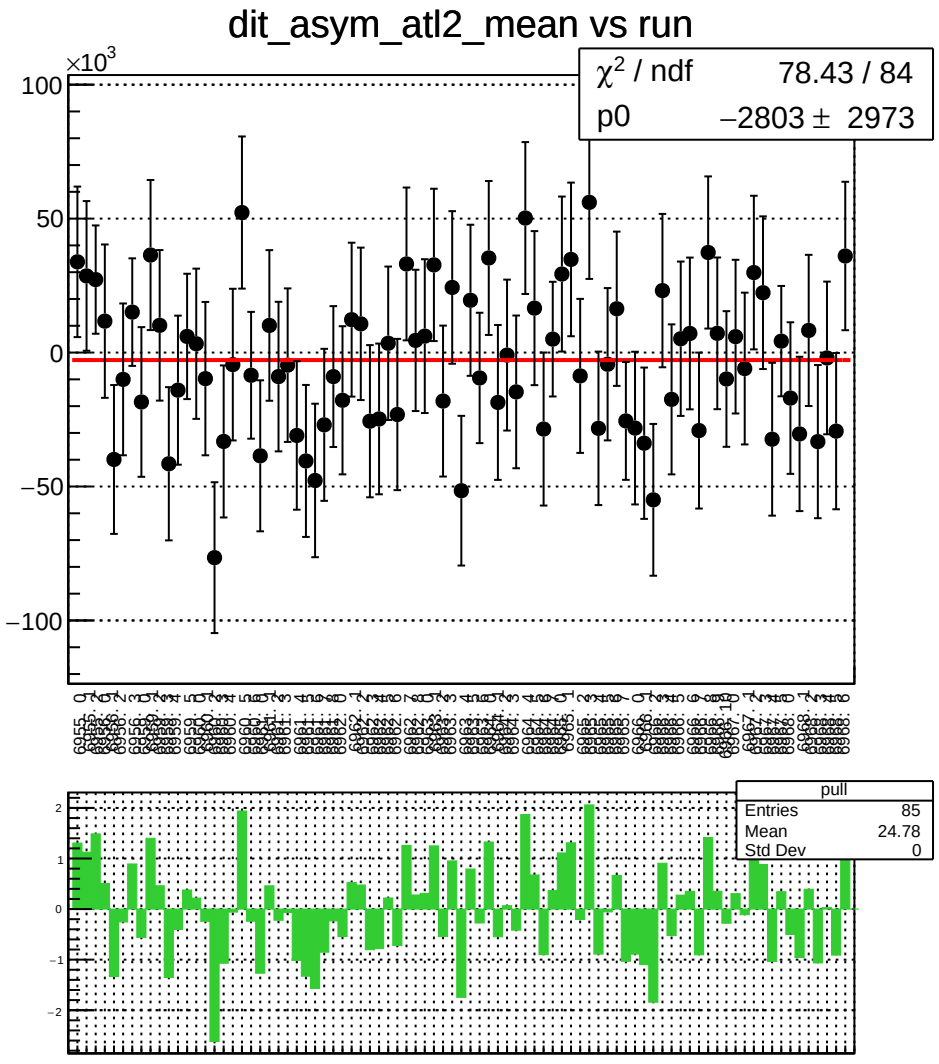

pull1D
Entries 85
Mean −0.006065
Std Dev 0.9539
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

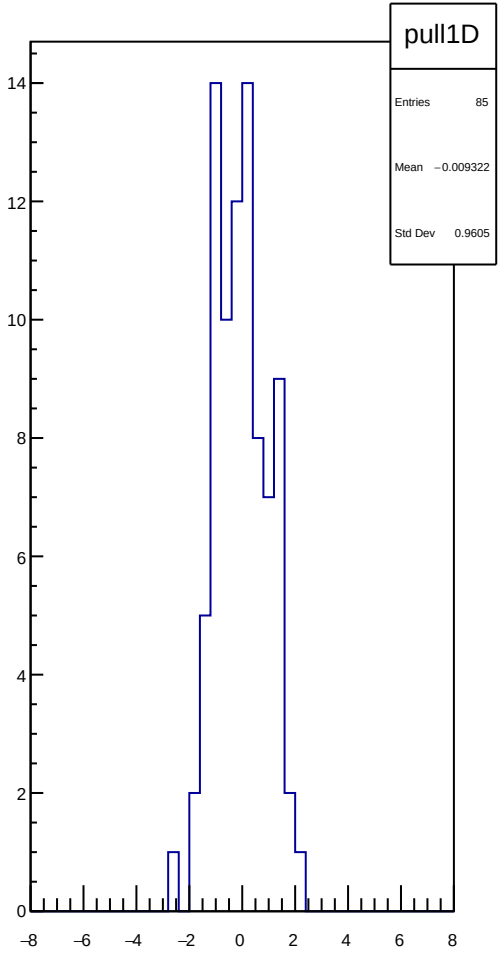

eigen_cor_asym_atl2_rms vs run
χ² / ndf 171.6 / 84
p0 2575 ± 2.01
2660
2640
2620
2600
2580
2560
2540
2520
2500
2480

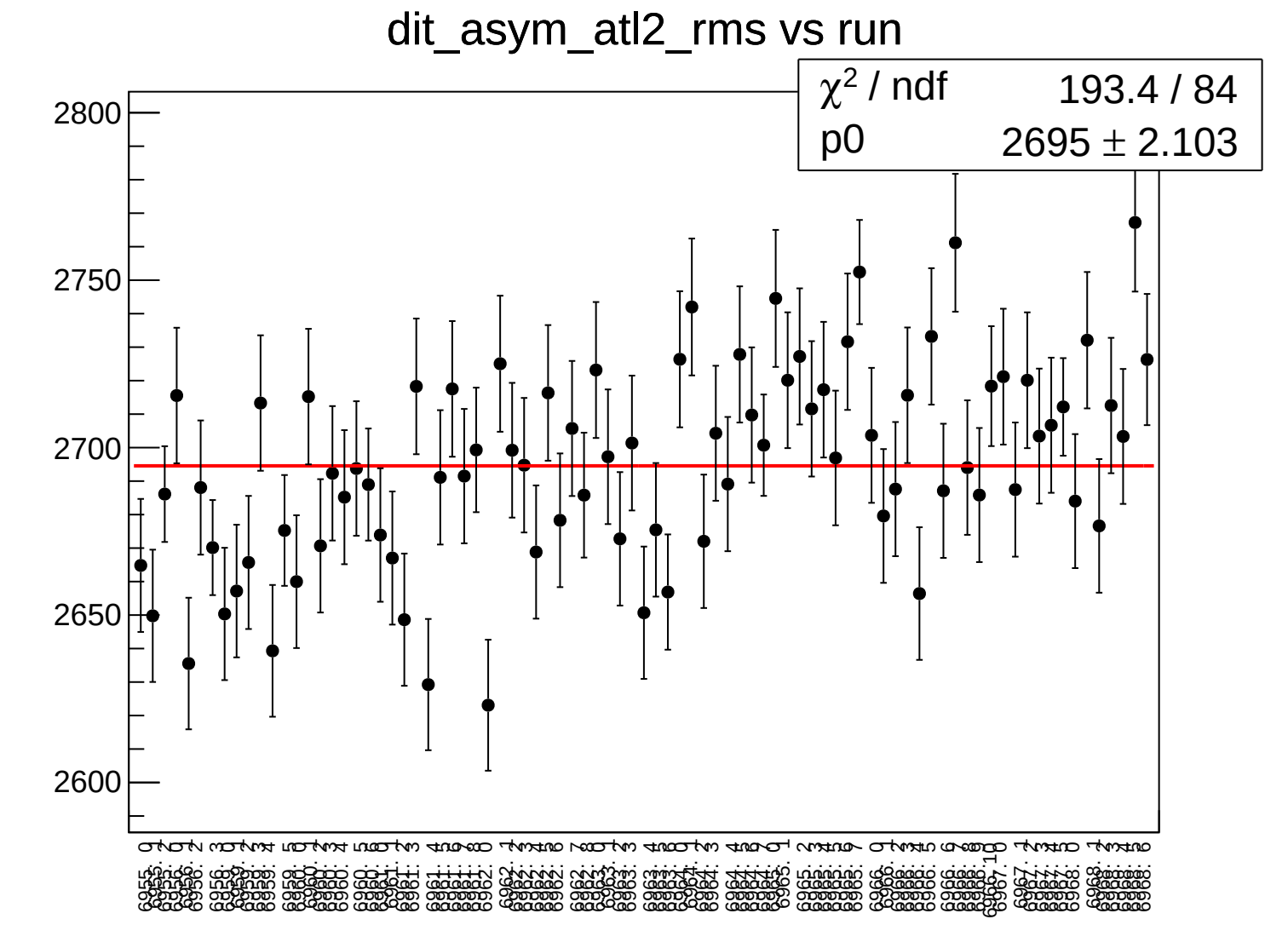

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.4 / 84
p0 −6159 ± 1.335e+04
400
200
0
−200
−400
−600
pull
Entries 85
Mean 34.15
Std Dev 68.77
2
1
0
−1
−2

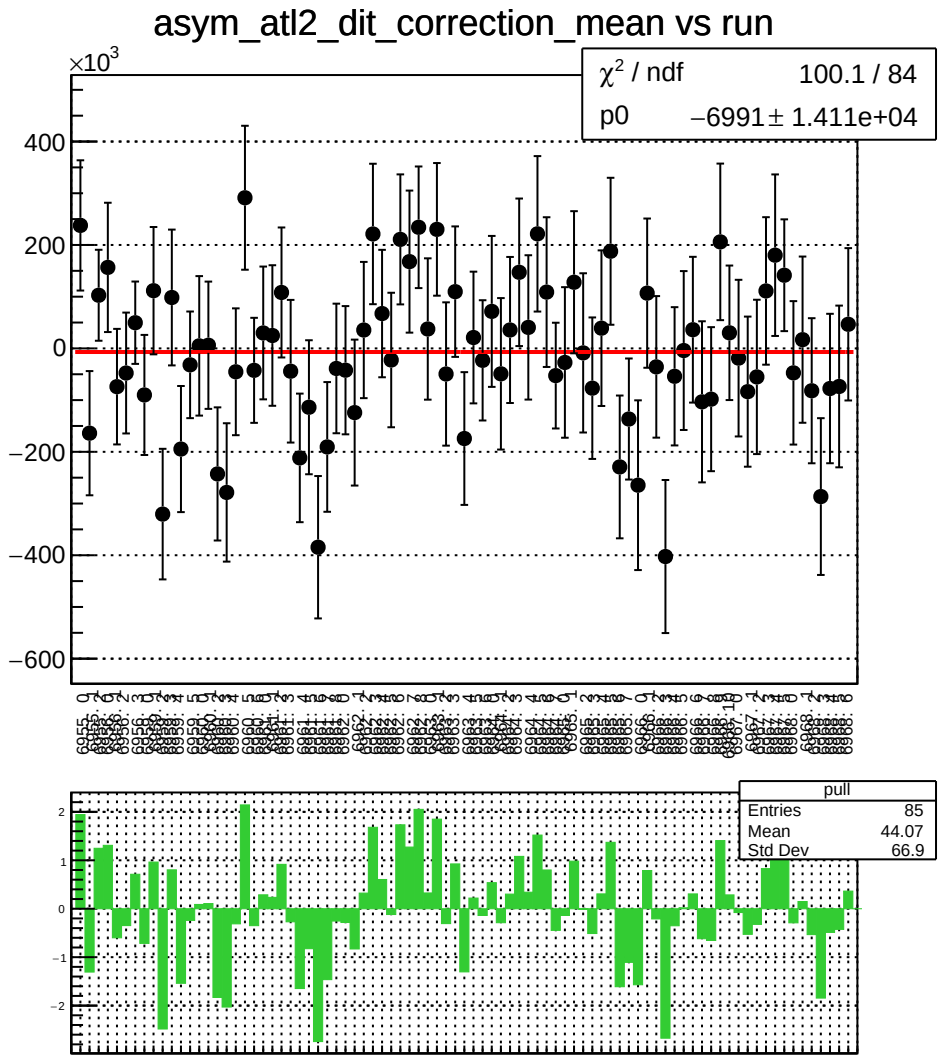

pull1D
Entries 85
Mean −0.0104
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

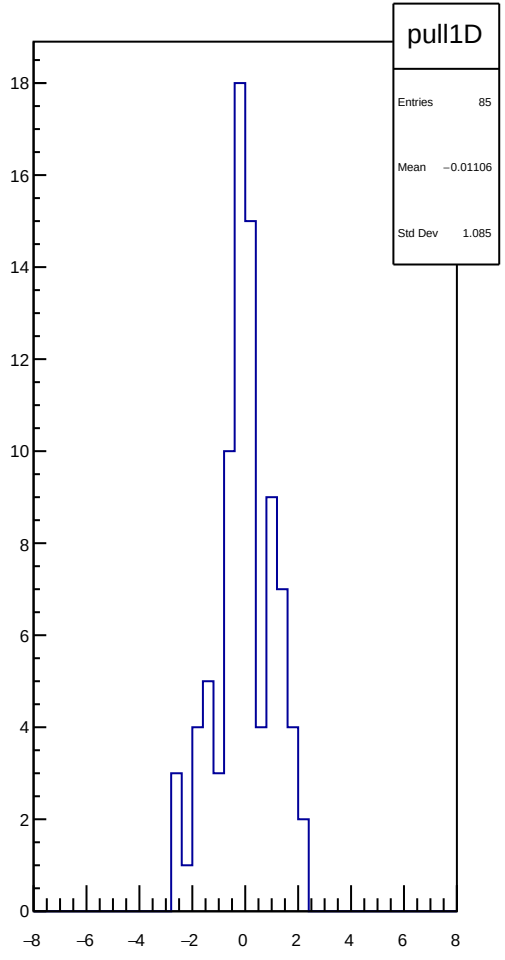

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.288e+04 / 84
p0 1.205e+04 ± 9.441
15000
14000
13000
12000
11000
10000

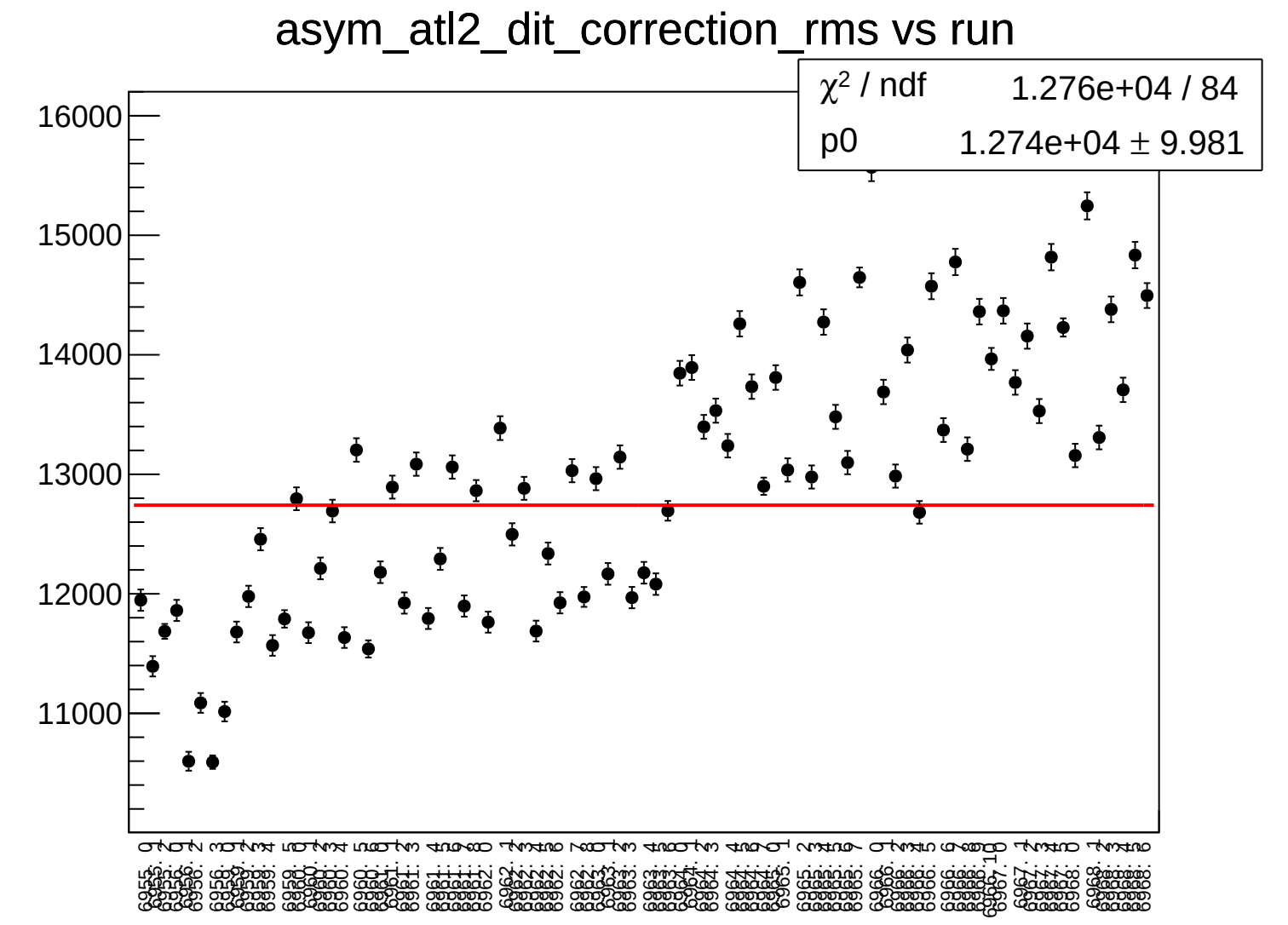

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 78.43 / 84
p0 −2803 ± 2973
100
50
0
−50
−100
pull
Entries 85
Mean 24.78
Std Dev 0
2
1
0
−1
−2

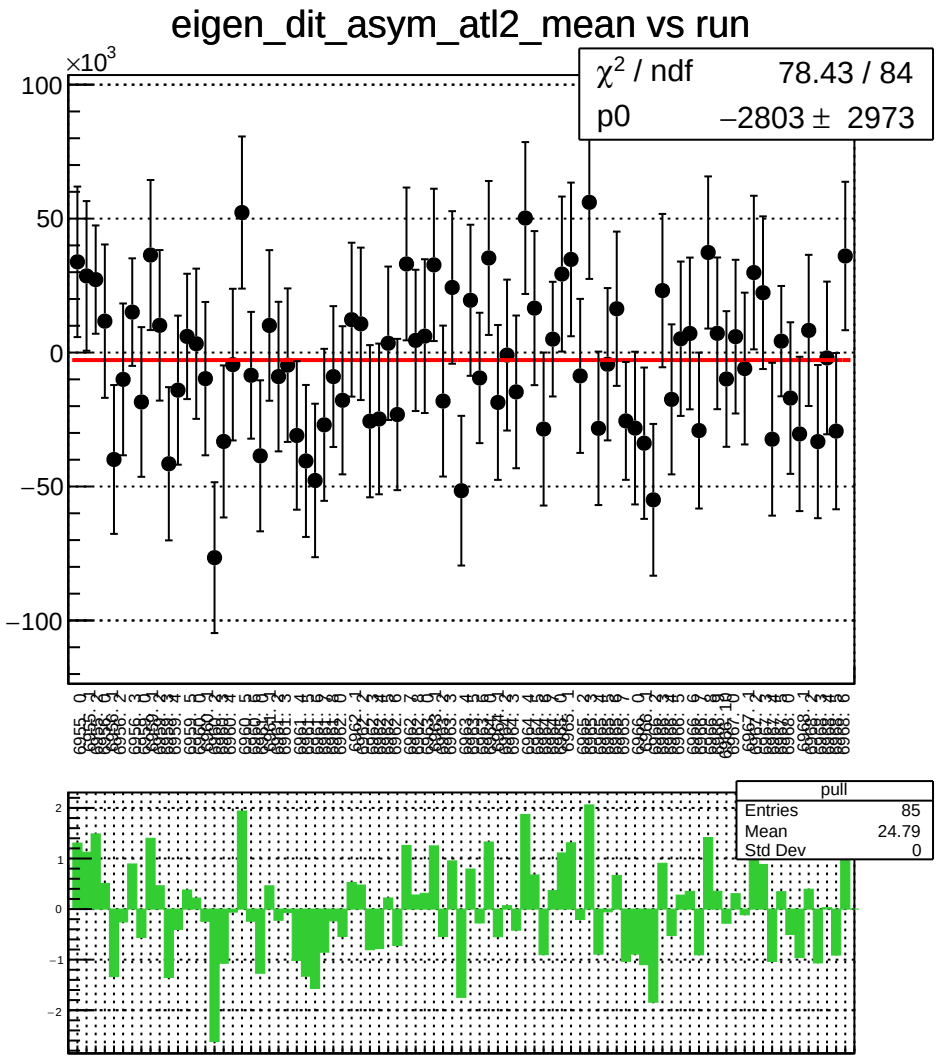

pull1D
Entries 85
Mean −0.009322
Std Dev 0.9605
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

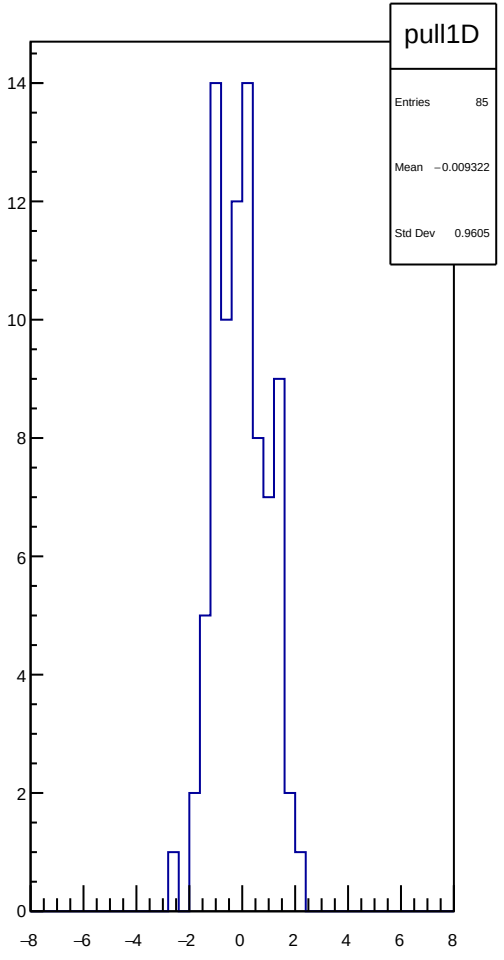

dit_asym_atl2_rms vs run
χ² / ndf 193.4 / 84
p0 2695 ± 2.103
2800
2750
2700
2650
2600

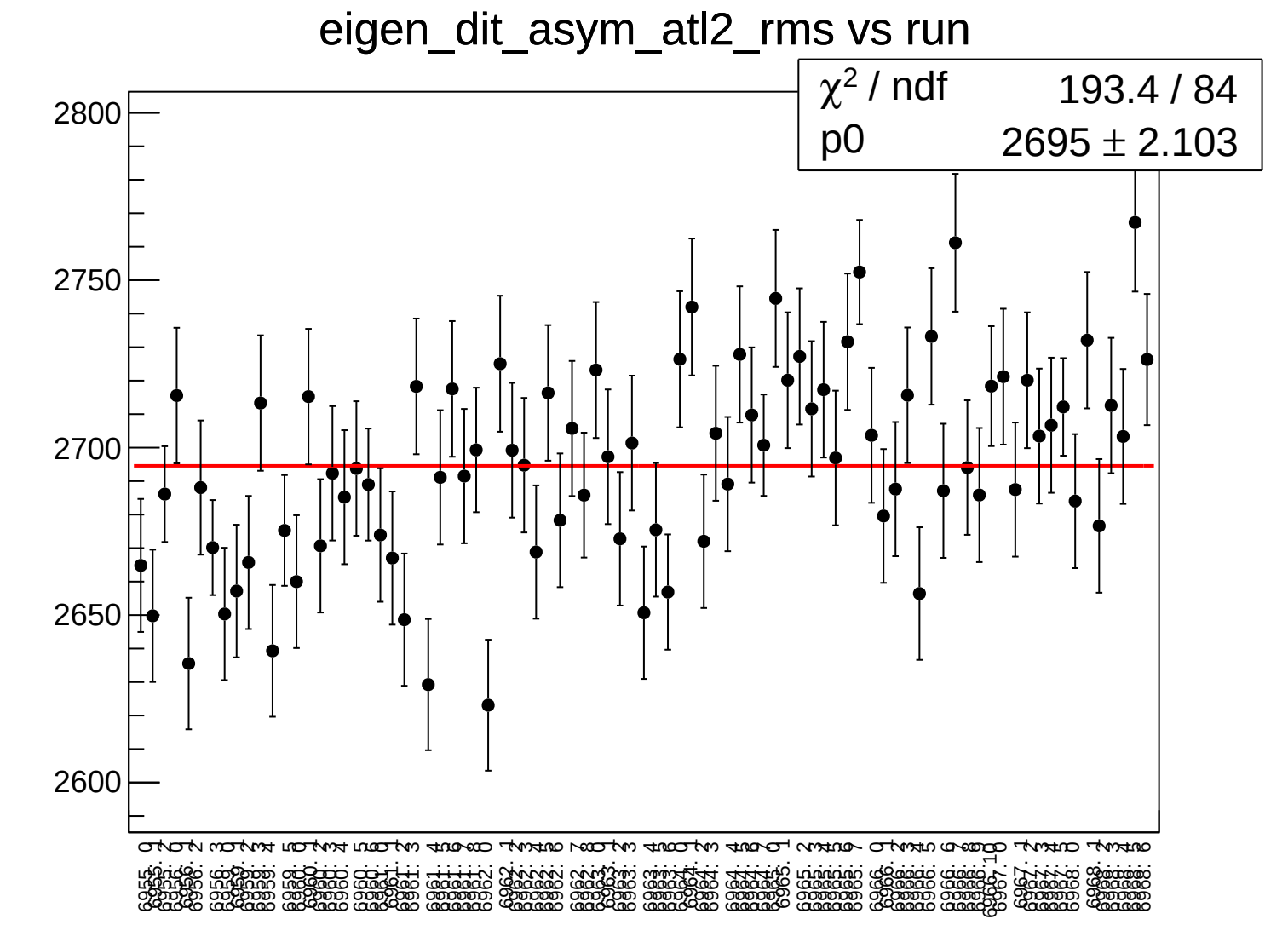

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 100.1 / 84
p0 −6991 ± 1.411e+04
400
200
0
−200
−400
−600
pull
Entries 85
Mean 44.07
Std Dev 66.9
2
1
0
−1
−2

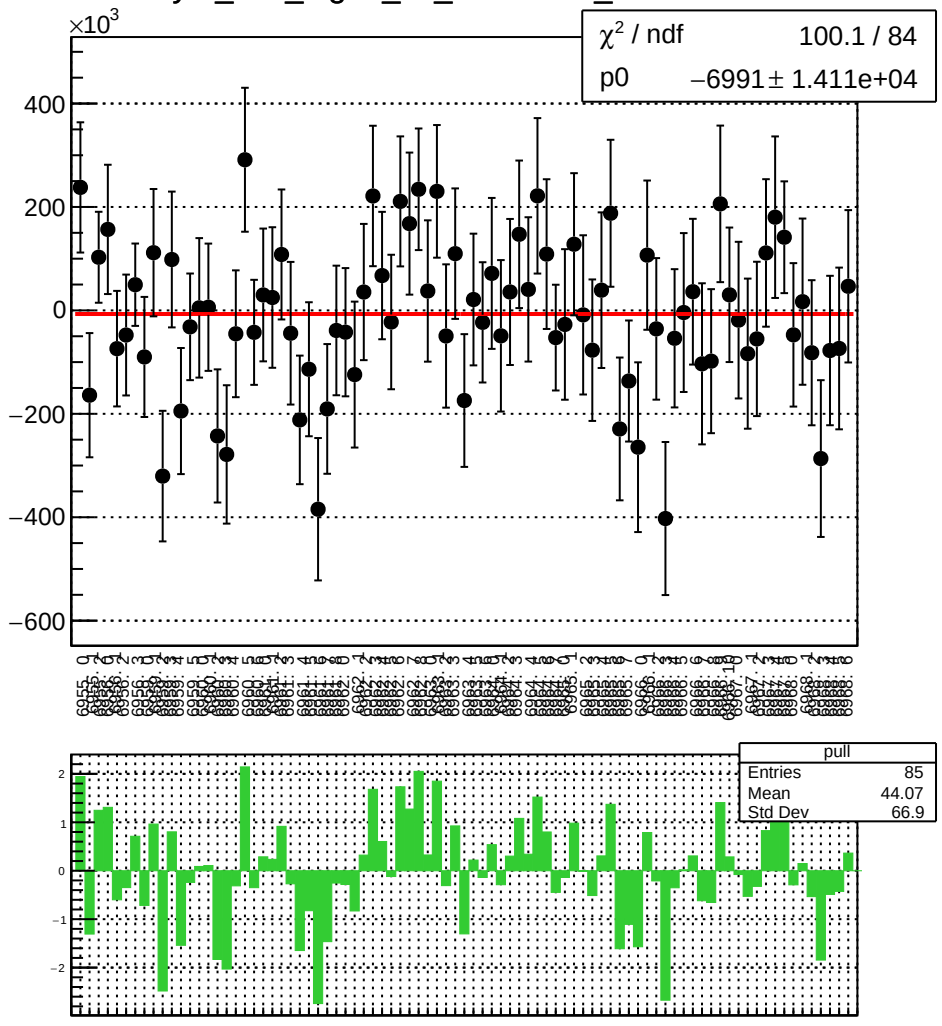

pull1D
Entries 85
Mean −0.01106
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

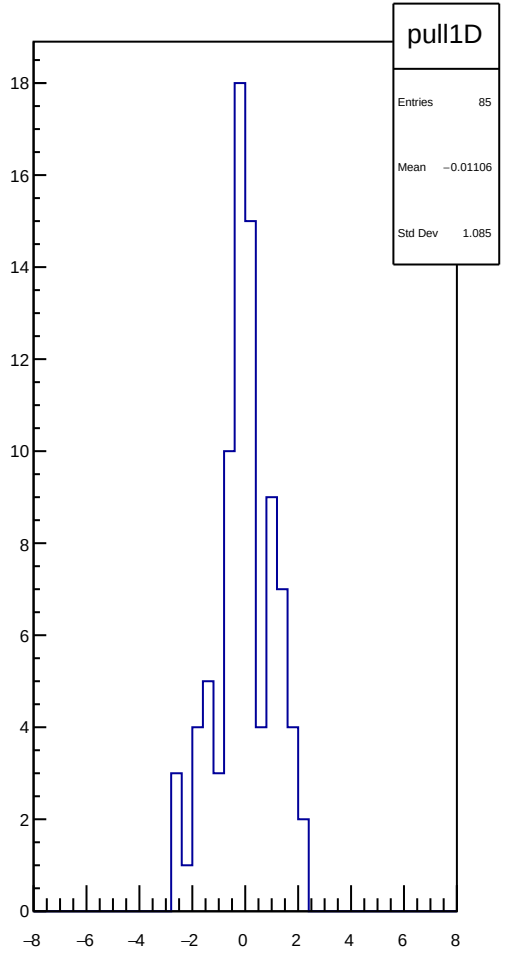

asym_atl2_dit_correction_rms vs run
χ² / ndf 1.276e+04 / 84
p0 1.274e+04 ± 9.981
16000
15000
14000
13000
12000
11000

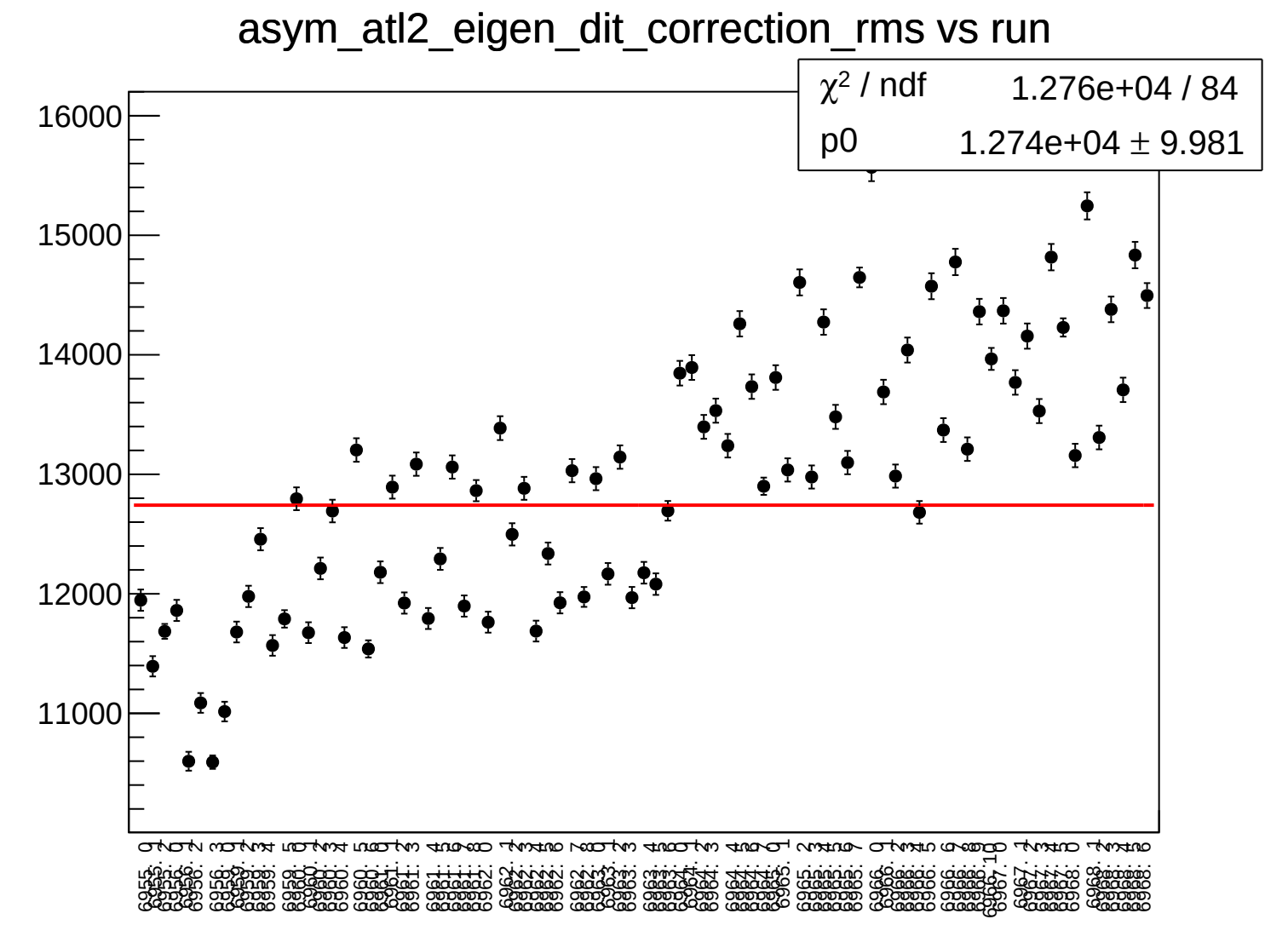

eigen_dit_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 78.43 / 84
p0 −2803 ± 2973
pull
Entries 85
Mean 24.79
Std Dev 0
2
1
0
−1
−2

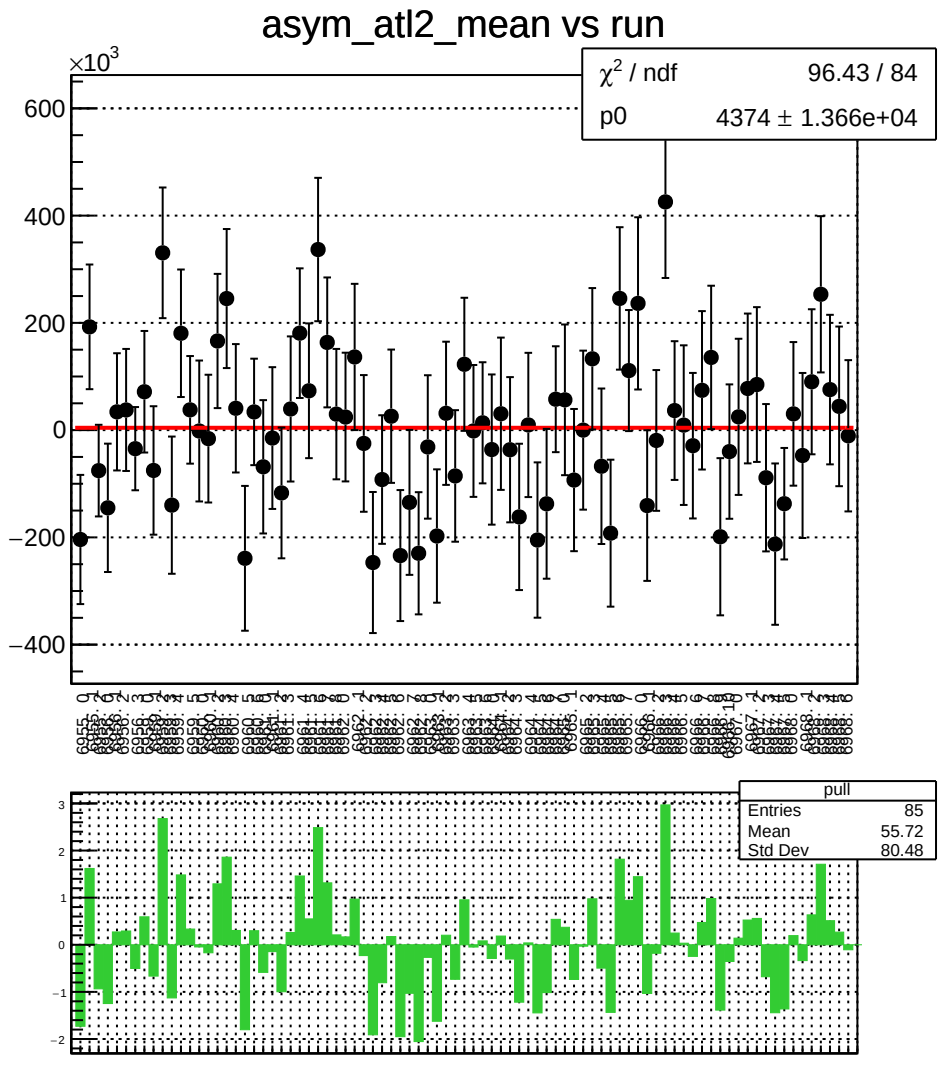

pull1D
Entries 85
Mean −0.009322
Std Dev 0.9605
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

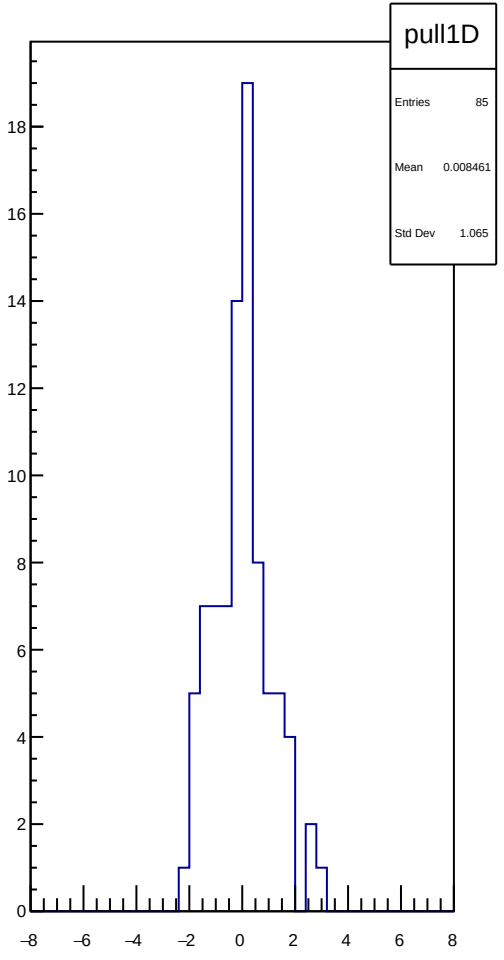

eigen_dit_asym_atl2_rms vs run
$\chi^2$ / ndf 193.4 / 84
p0 2695 ± 2.103
2800
2750
2700
2650
2600

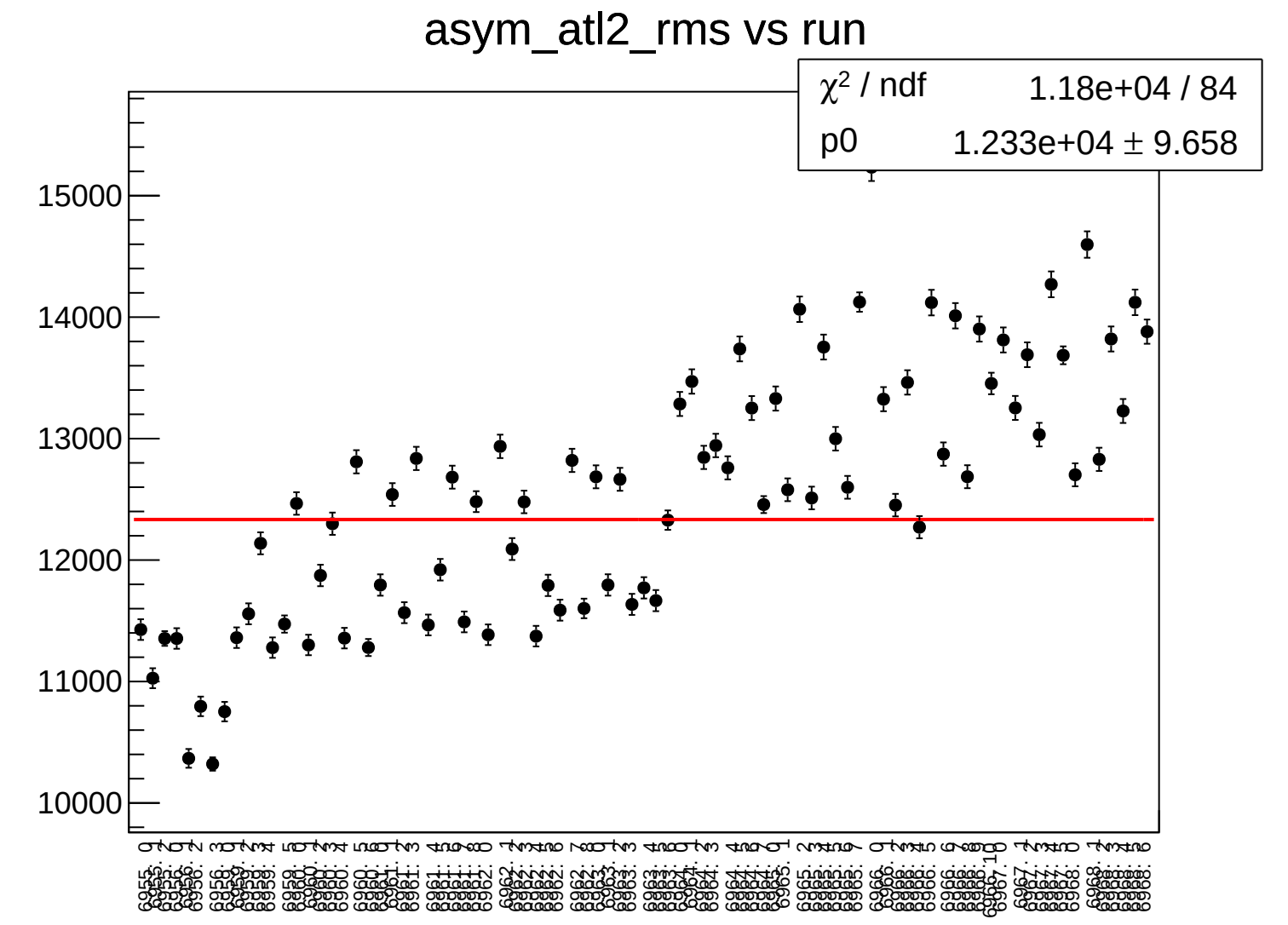

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.1 / 84
p0 −6991 ± 1.411e+04
400
200
0
−200
−400
−600
pull
Entries 85
Mean 44.07
Std Dev 66.9
2
1
0
−1
−2

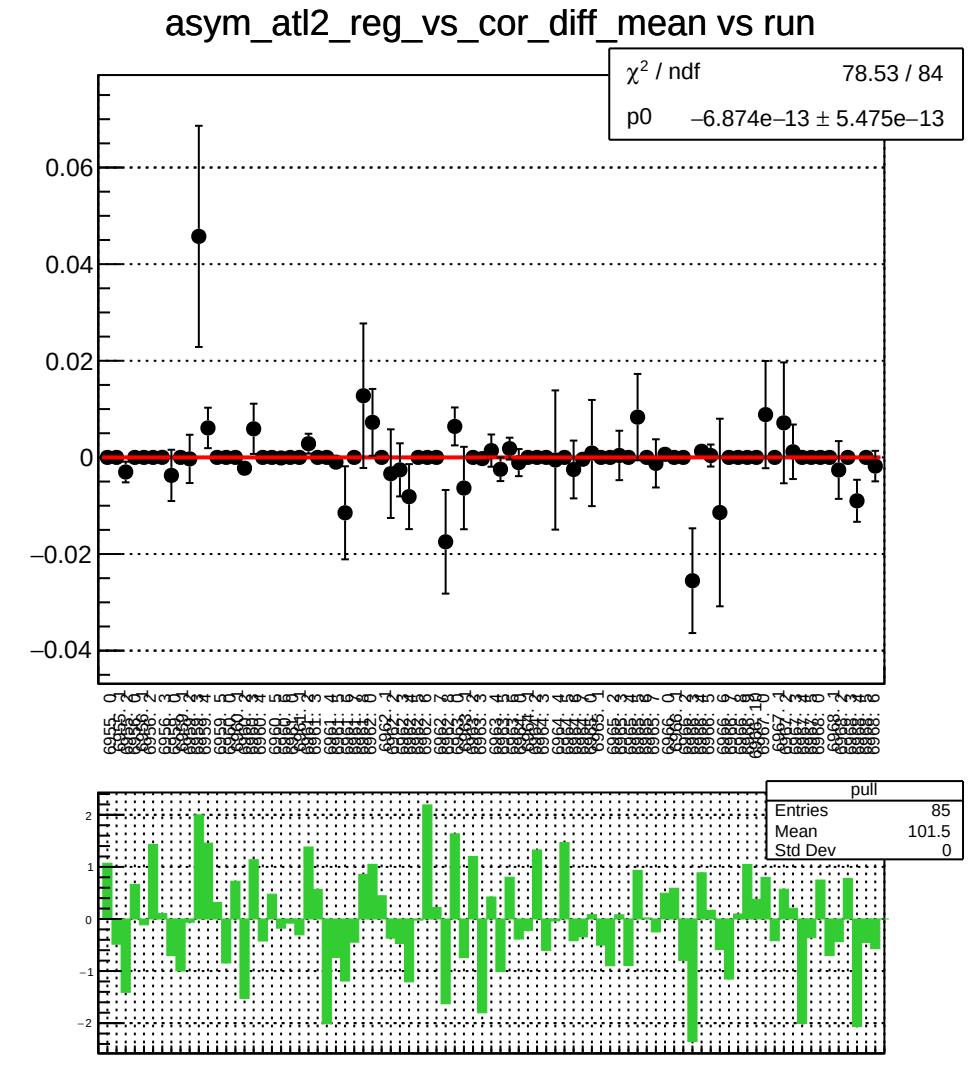

pull1D
Entries 85
Mean −0.01106
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

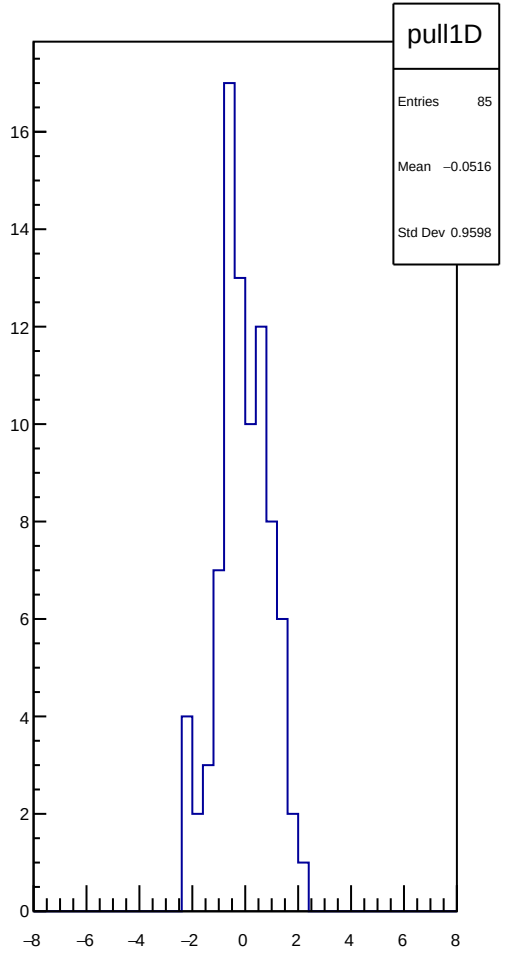

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1.276e+04 / 84
p0 1.274e+04 ± 9.981
16000
15000
14000
13000
12000
11000

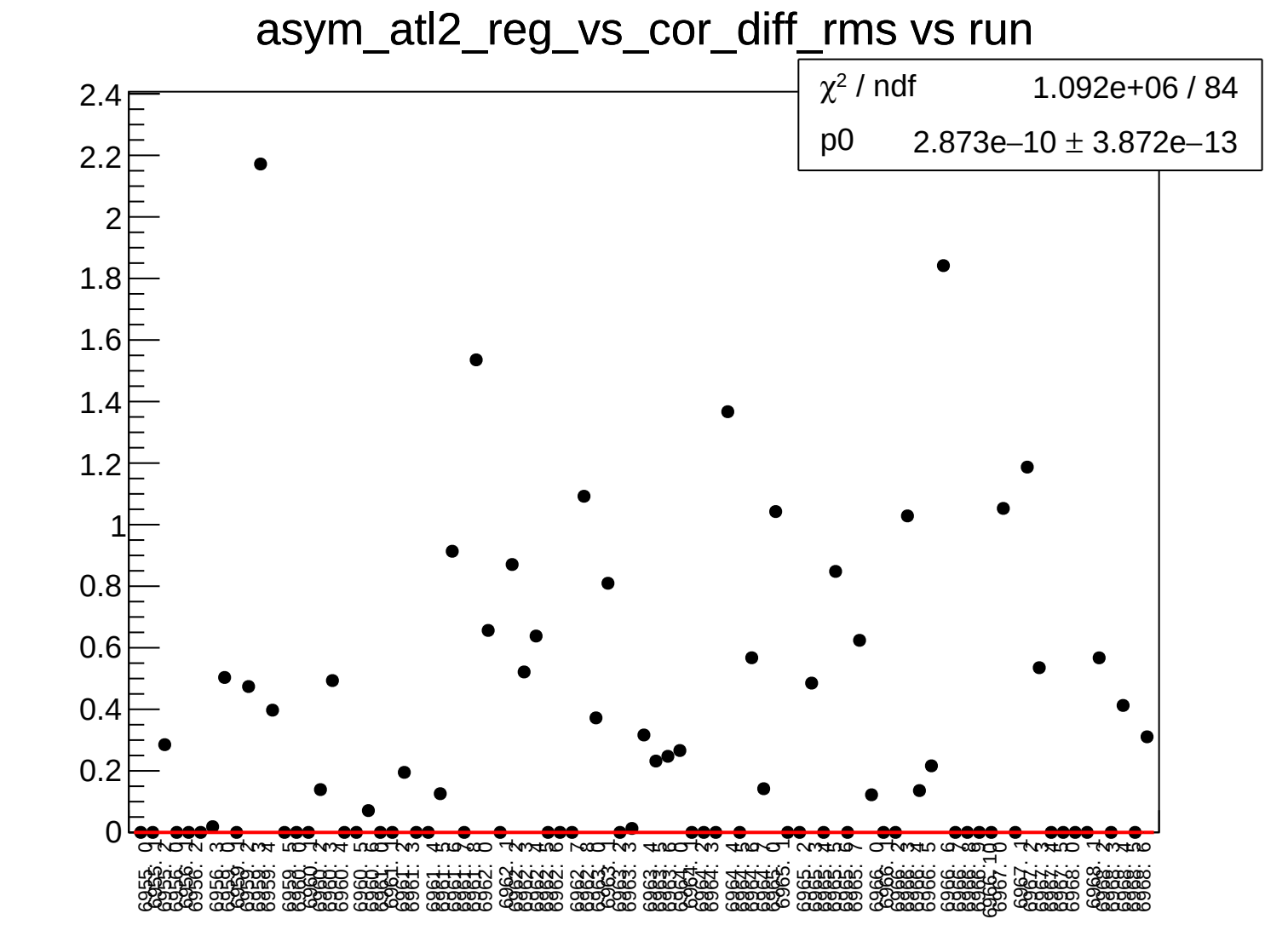

asym_atl2_mean vs run
×10^3
χ² / ndf 96.43 / 84
p0 4374 ± 1.366e+04
pull
Entries 85
Mean 55.72
Std Dev 80.48

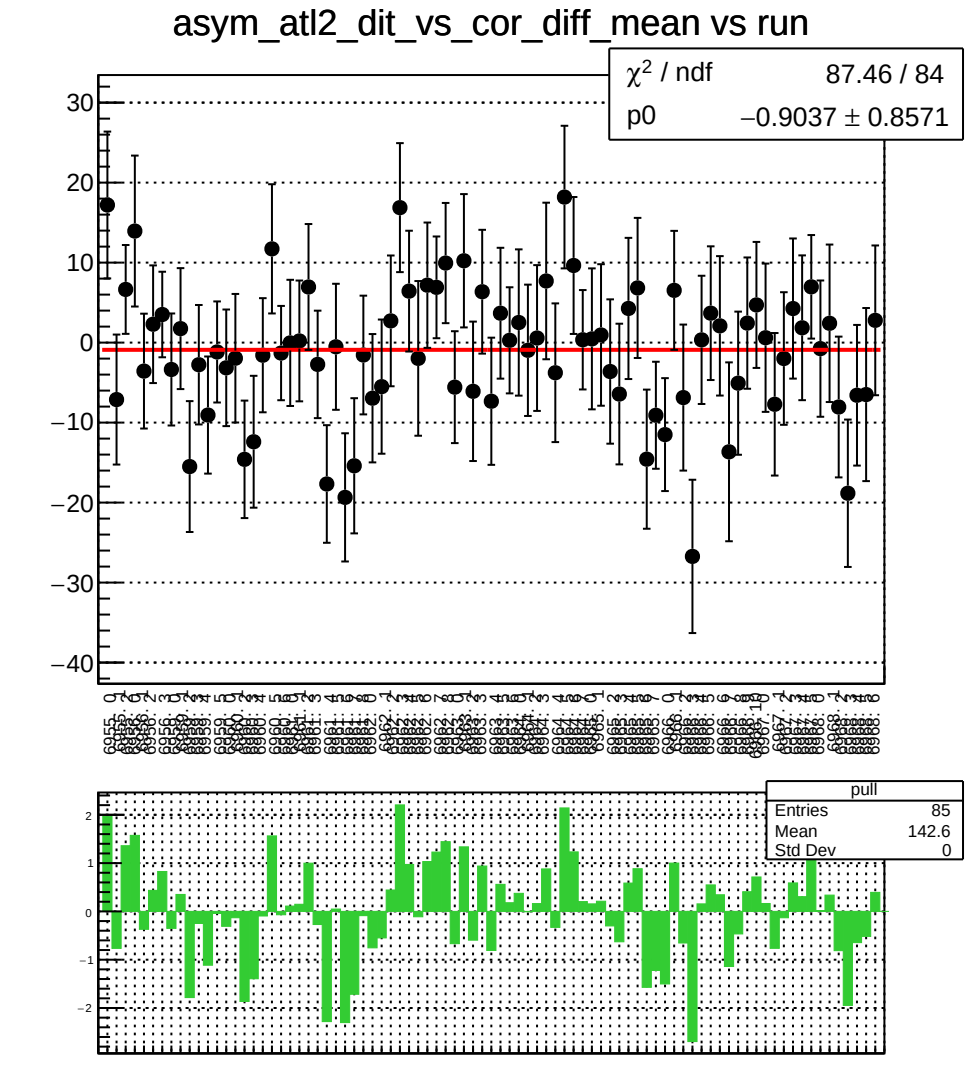

pull1D
Entries 85
Mean 0.008461
Std Dev 1.065

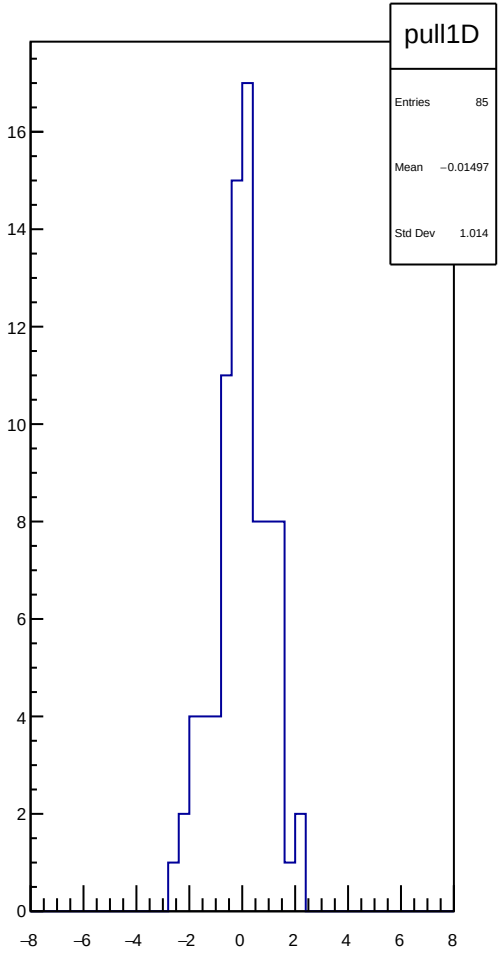

asym_atl2_rms vs run
χ² / ndf 1.18e+04 / 84
p0 1.233e+04 ± 9.658
15000
14000
13000
12000
11000
10000

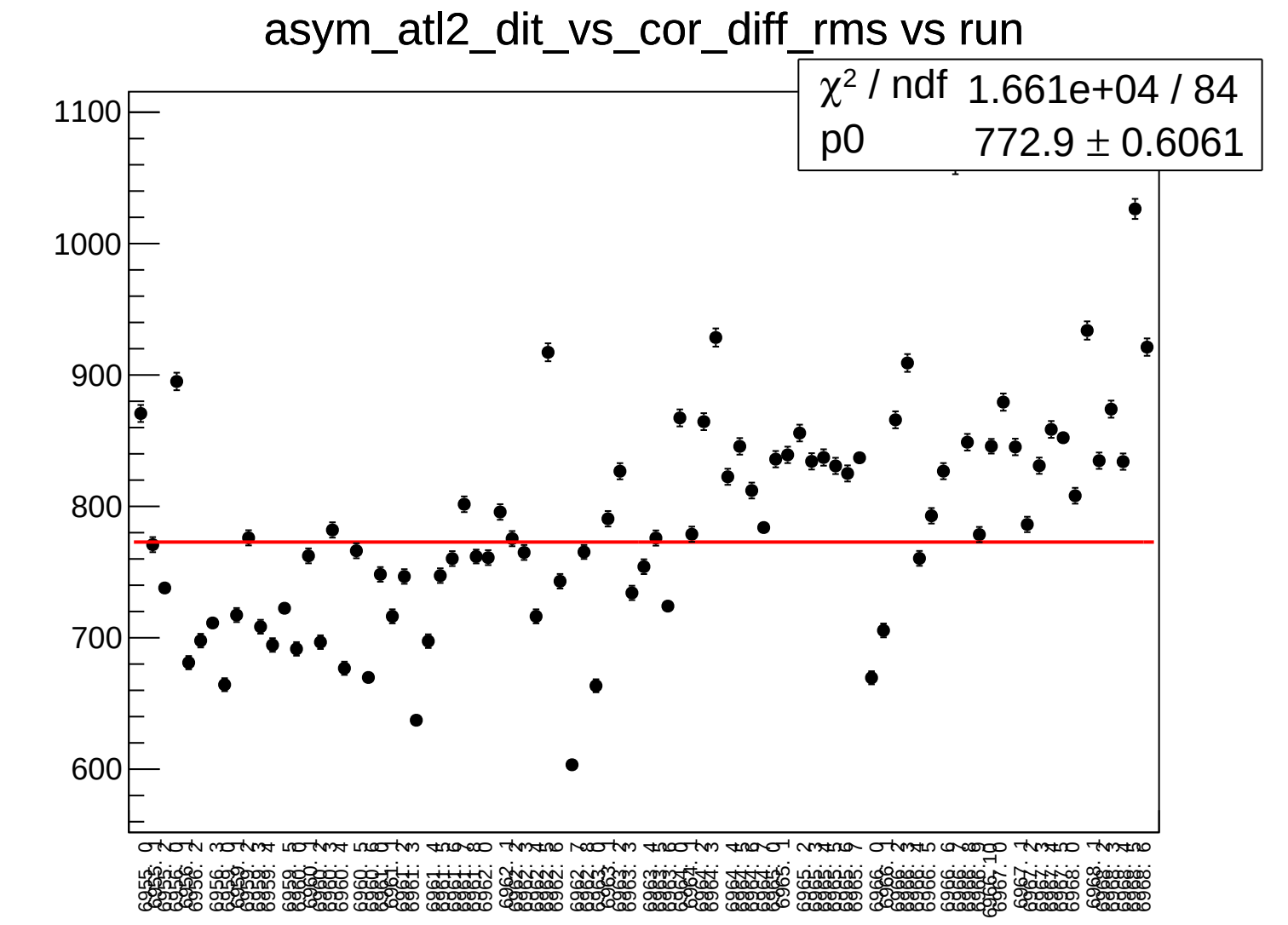

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 78.53 / 84
p0 −6.874e−13 ± 5.475e−13
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 85
Mean 101.5
Std Dev 0
2
1
0
−1
−2

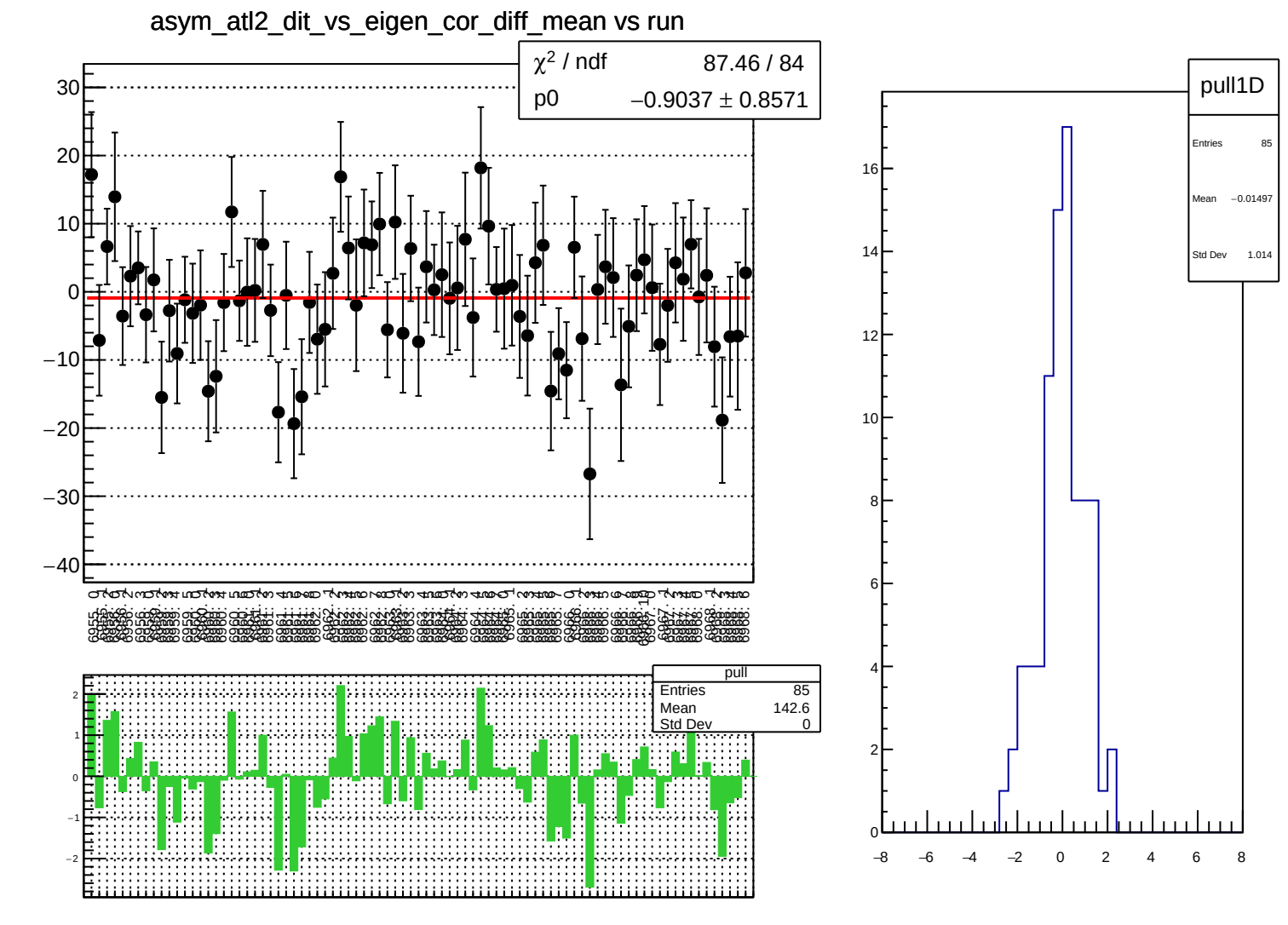

pull1D
Entries 85
Mean −0.0516
Std Dev 0.9598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

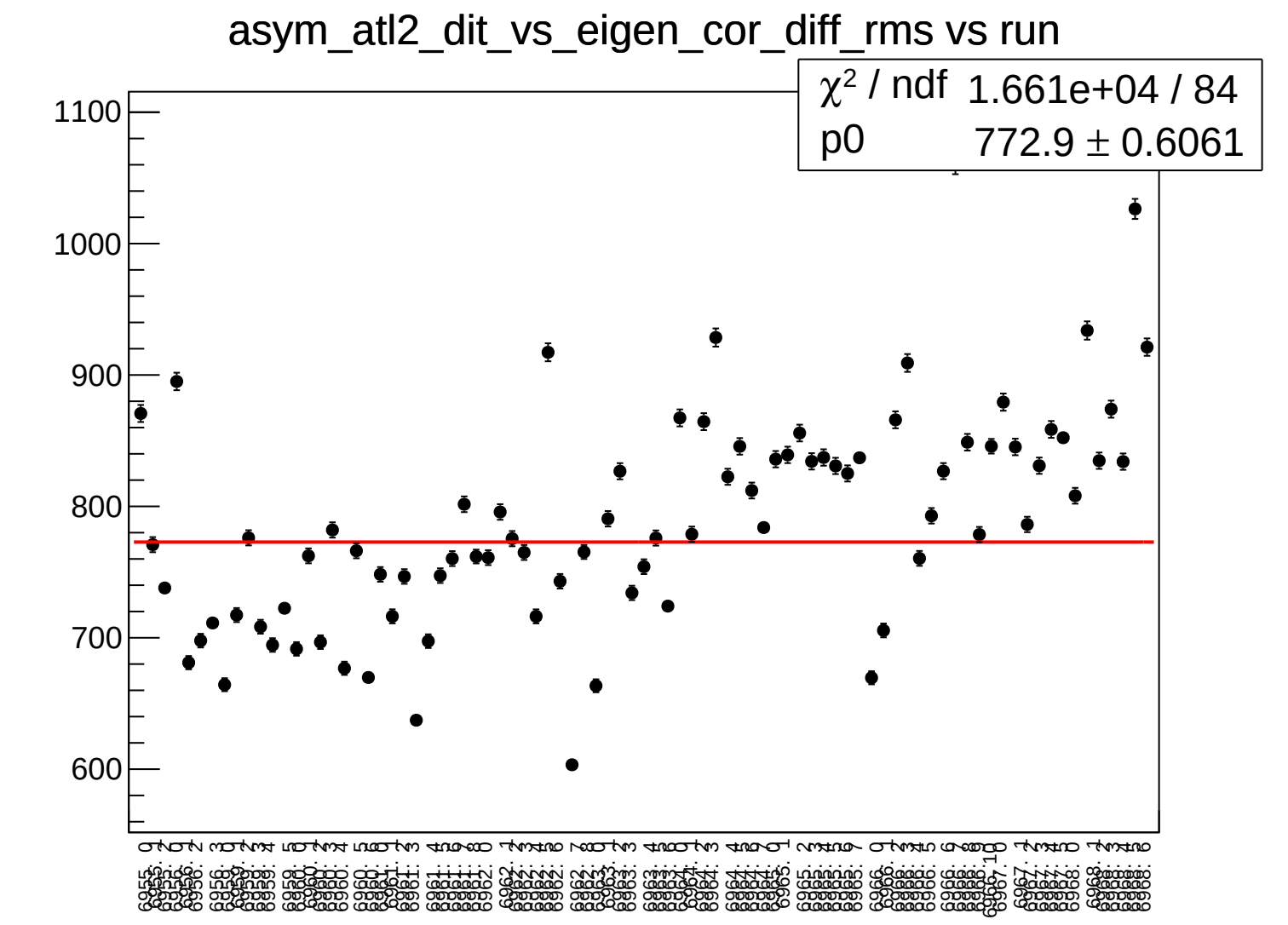

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.092e+06 / 84
p0 2.873e−10 ± 3.872e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

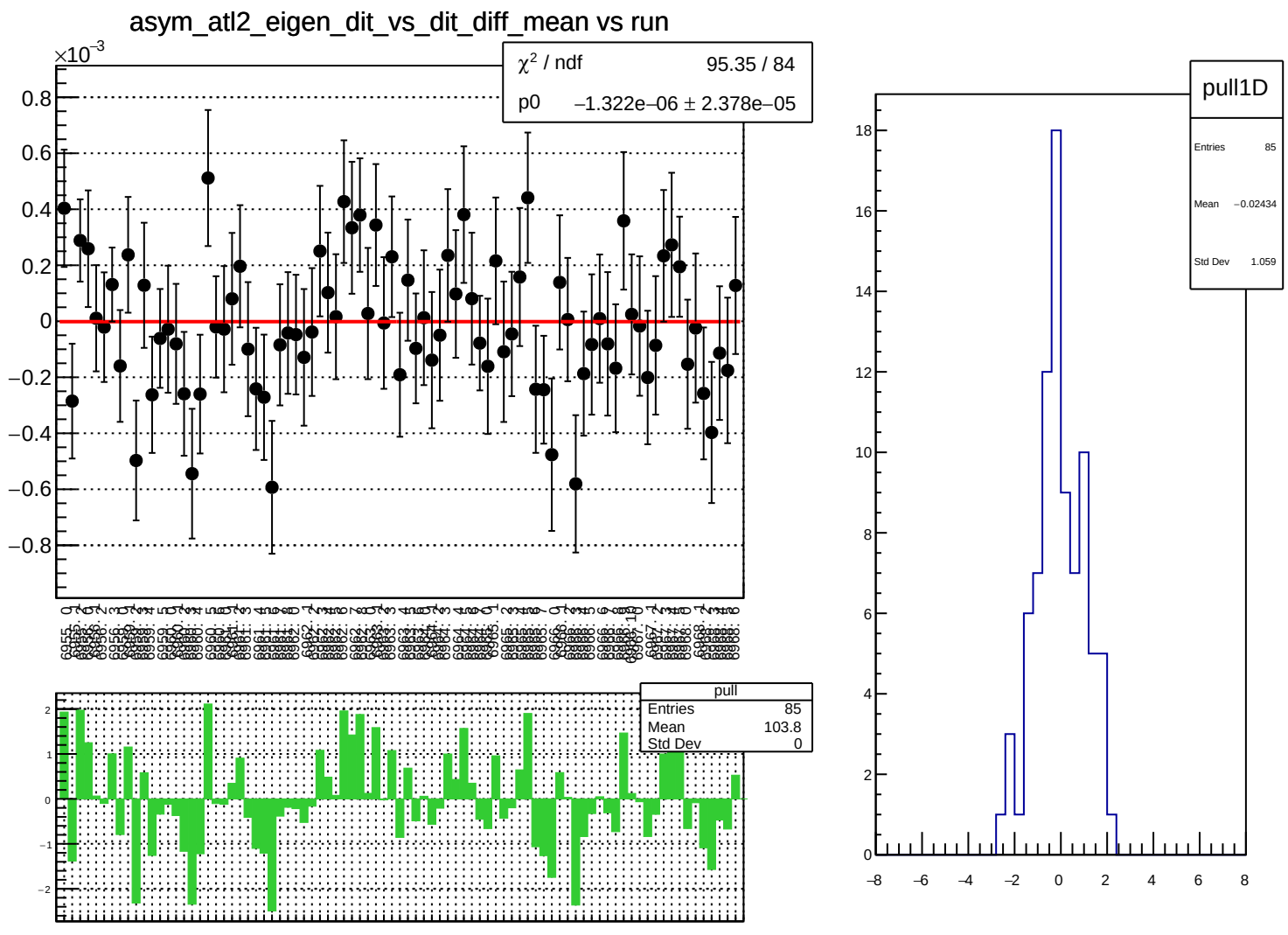

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 87.46 / 84
p0 −0.9037 ± 0.8571
pull
Entries 85
Mean 142.6
Std Dev 0

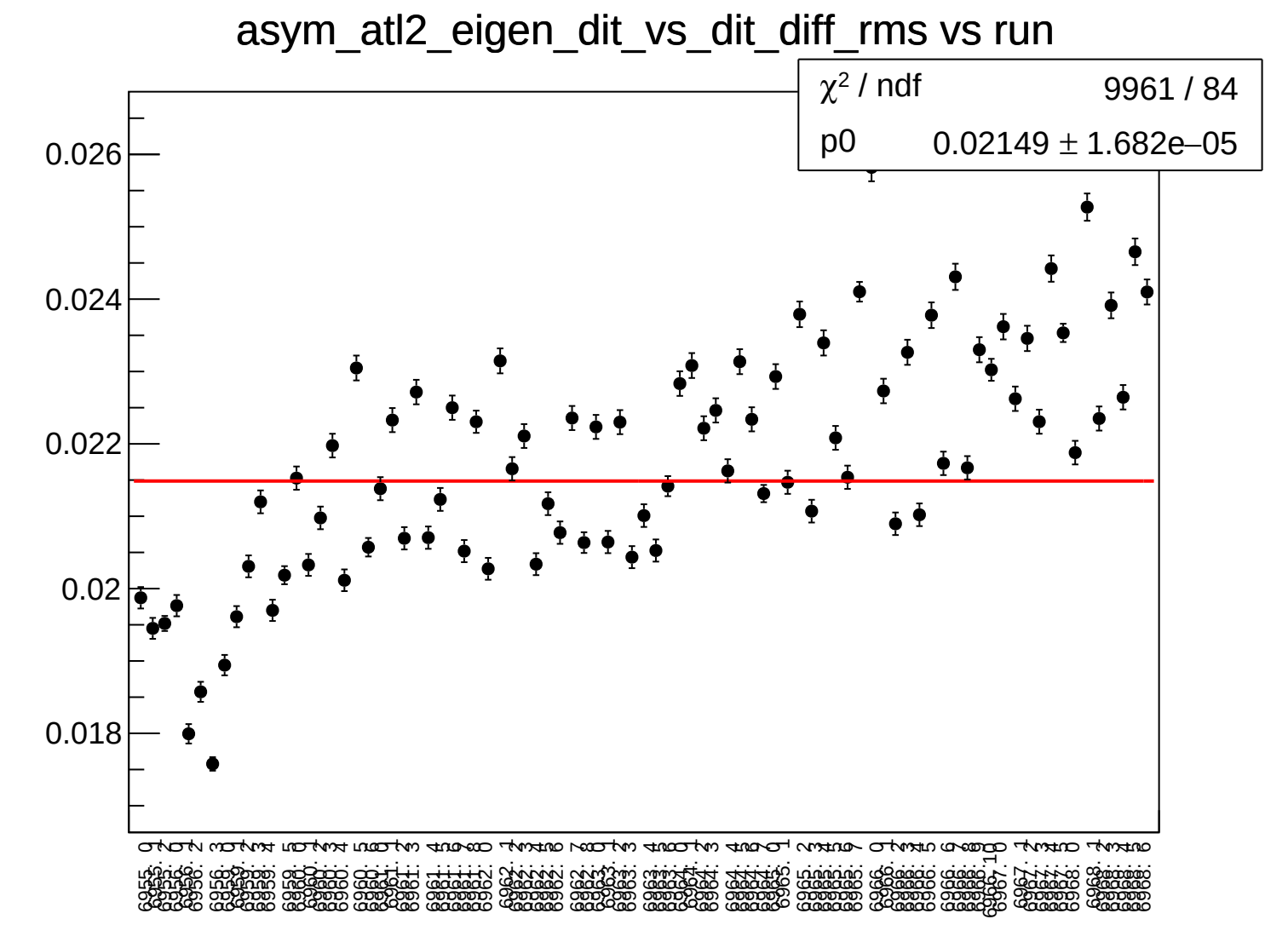

pull1D
Entries 85
Mean −0.01497
Std Dev 1.014

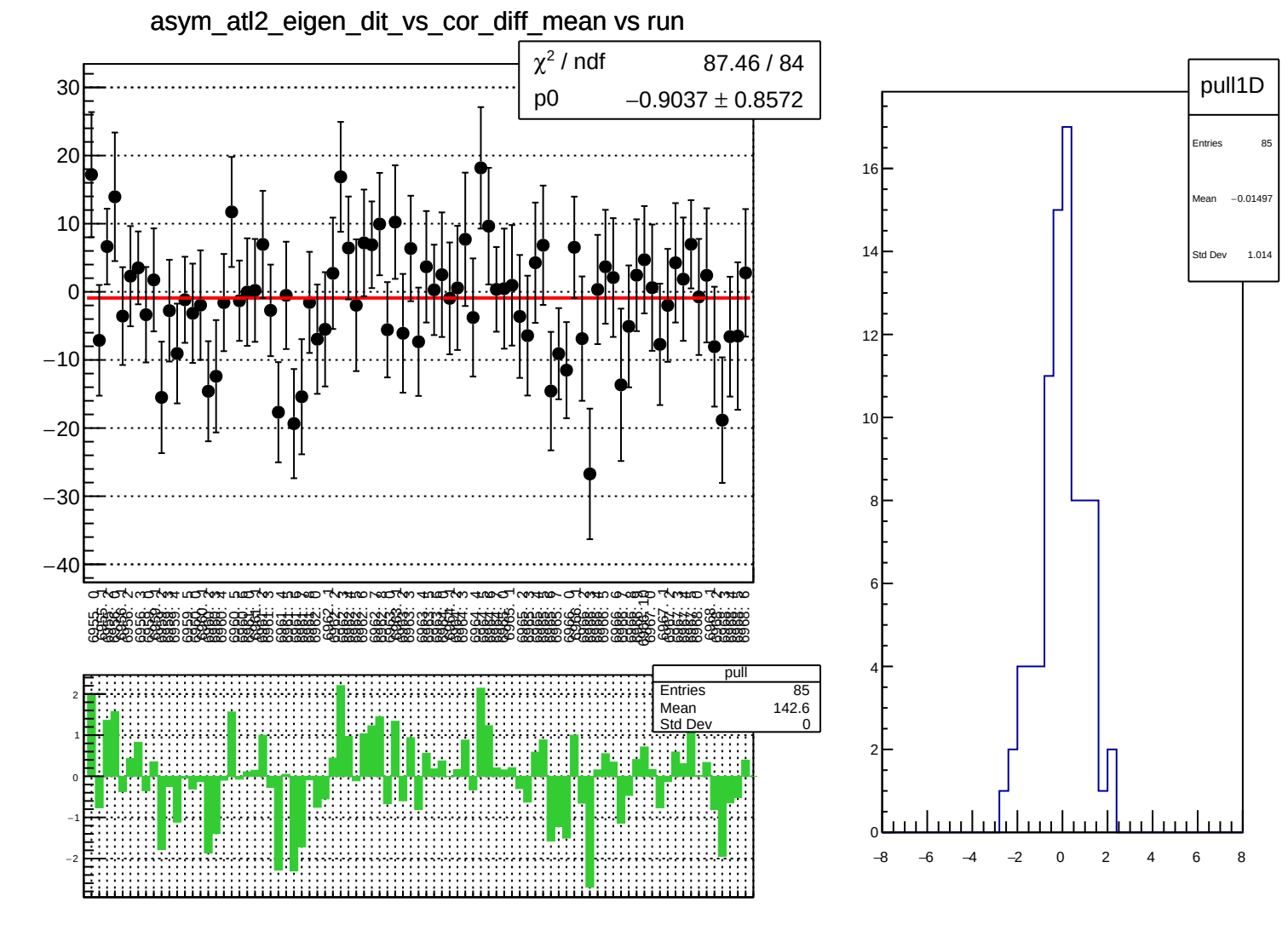

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.661e+04 / 84
p0 772.9 ± 0.6061
1100
1000
900
800
700
600

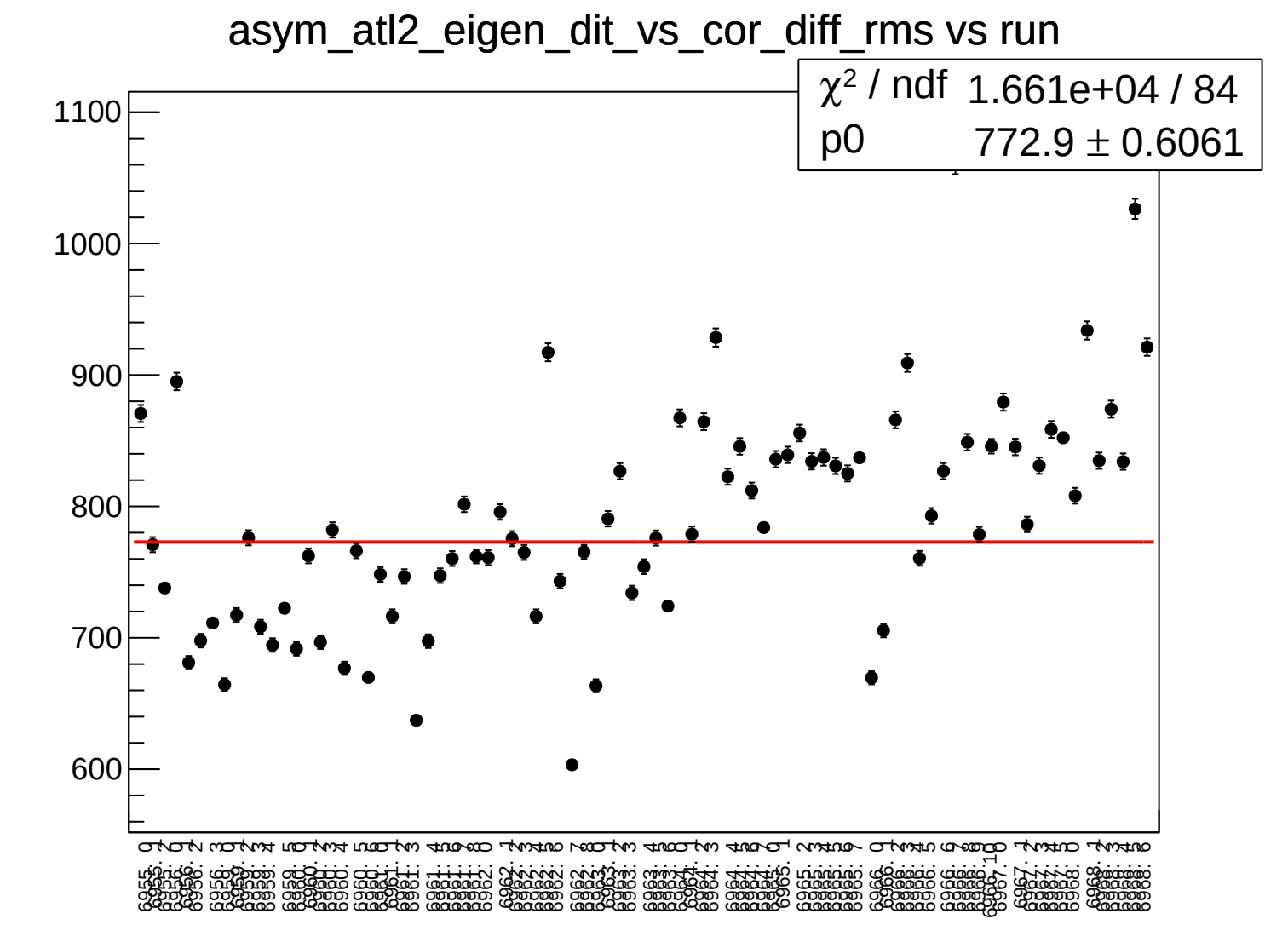

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.46 / 84
p0 −0.9037 ± 0.8571
pull
Entries 85
Mean 142.6
Std Dev 0
pull1D
Entries 85
Mean −0.01497
Std Dev 1.014

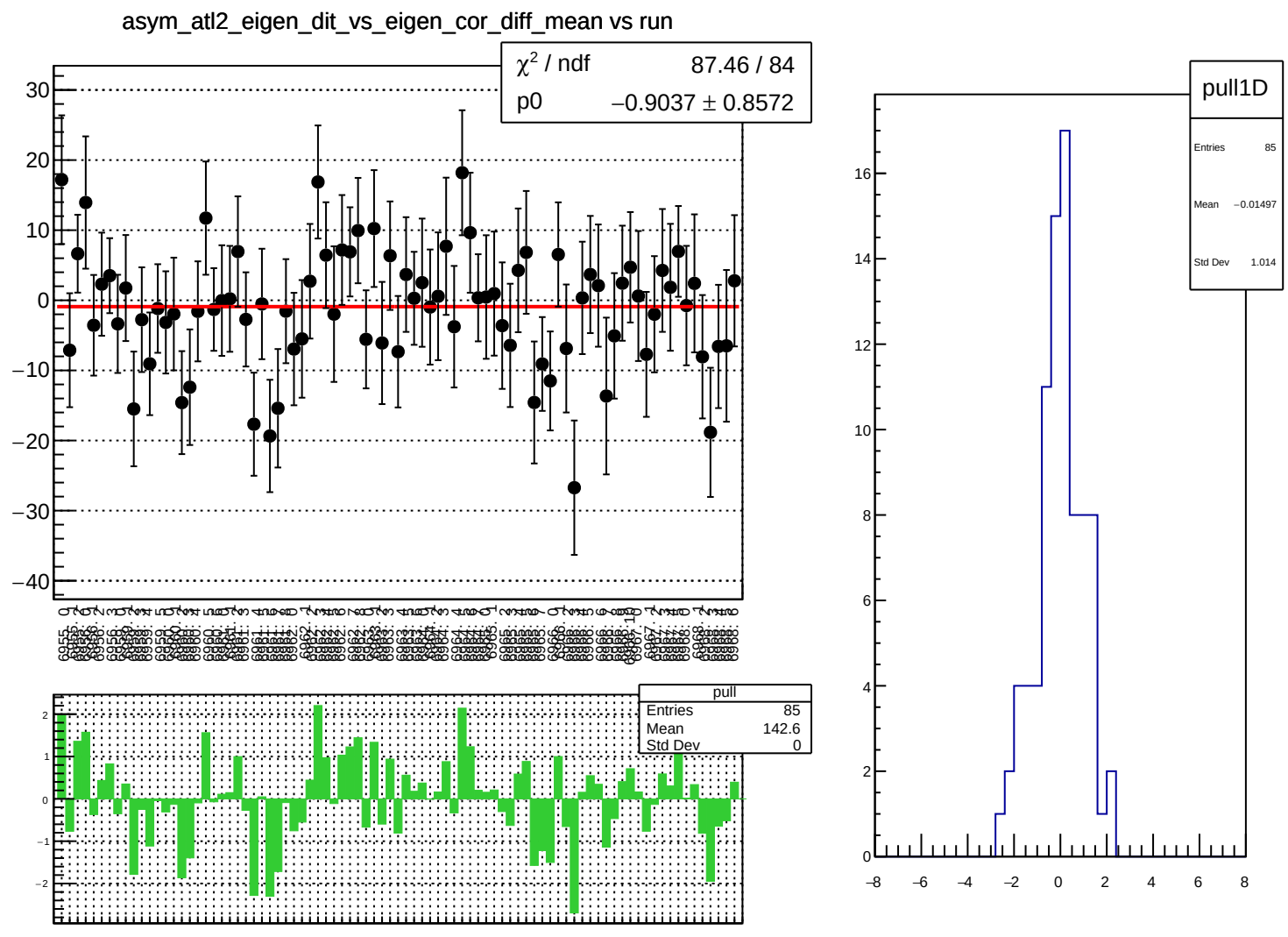

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.661e+04 / 84
p0 772.9 ± 0.6061
1100
1000
900
800
700
600

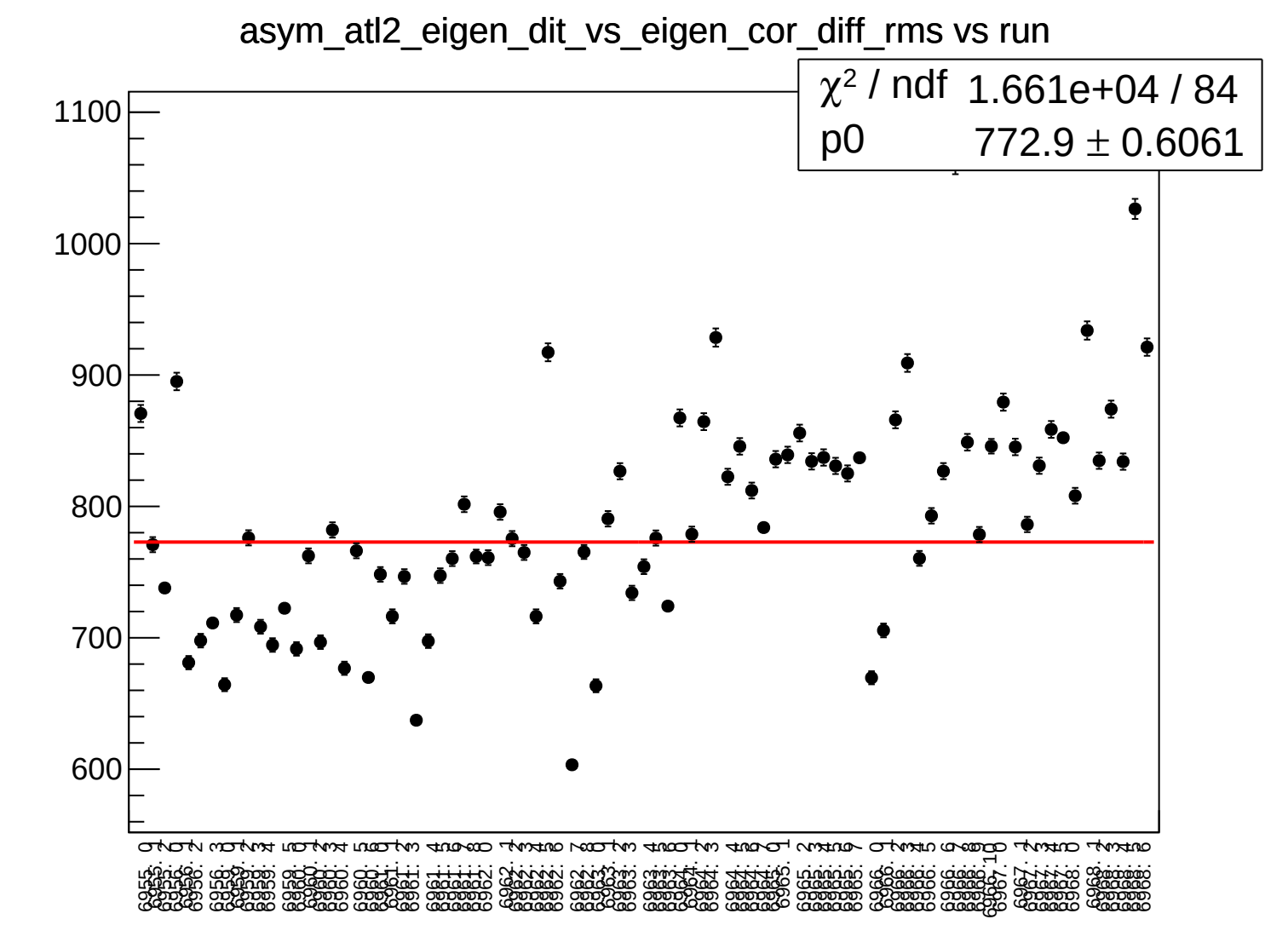

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 95.35 / 84
p0 −1.322e−06 ± 2.378e−05
pull
Entries 85
Mean 103.8
Std Dev 0
pull1D
Entries 85
Mean −0.02434
Std Dev 1.059

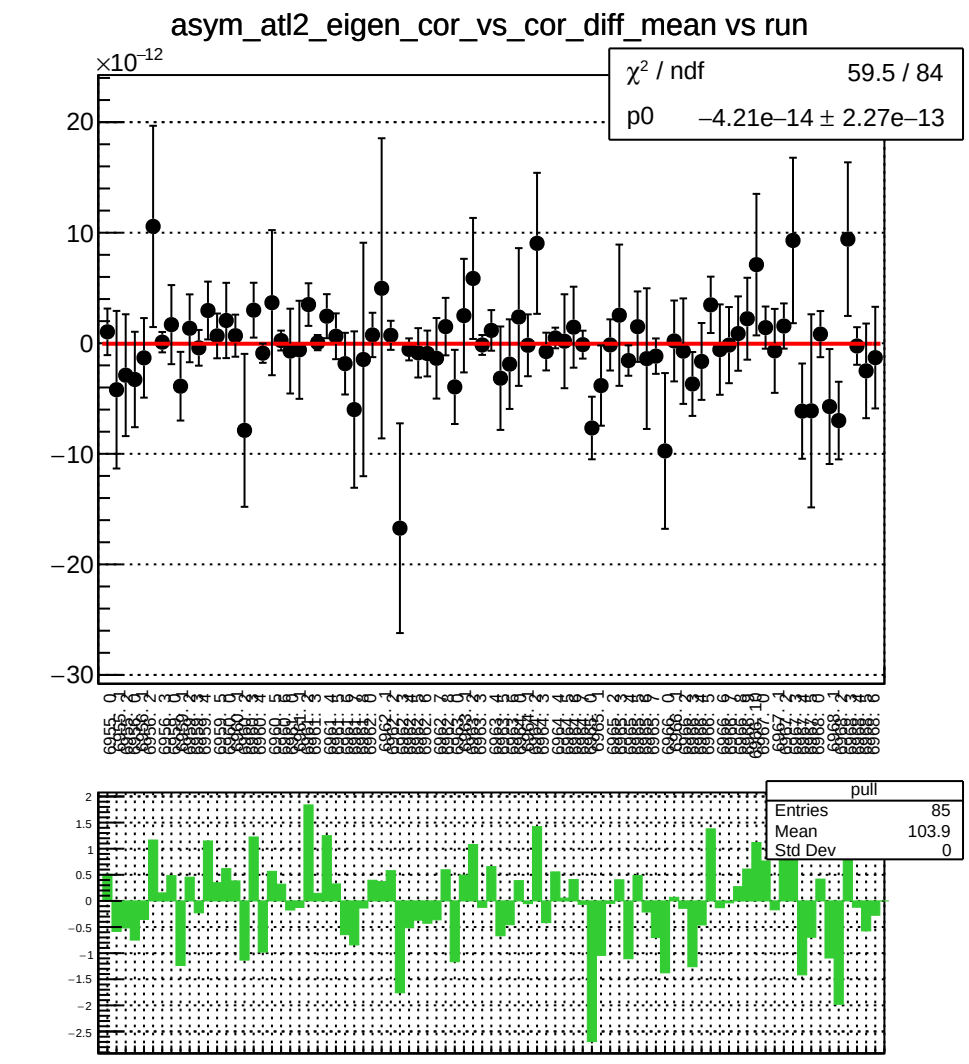

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9961 / 84
p0 0.02149 ± 1.682e−05
0.026
0.024
0.022
0.02
0.018

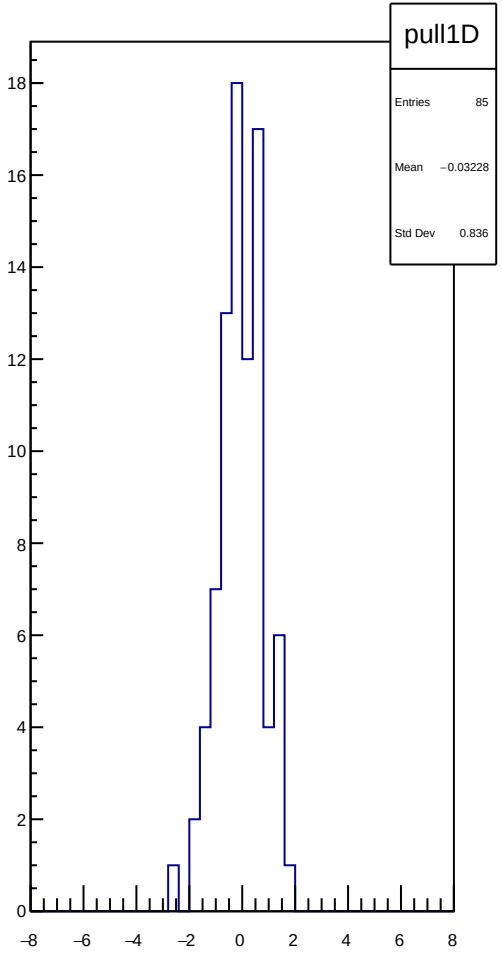

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.46 / 84
p0 −0.9037 ± 0.8572
pull
Entries 85
Mean 142.6
Std Dev 0
pull1D
Entries 85
Mean −0.01497
Std Dev 1.014

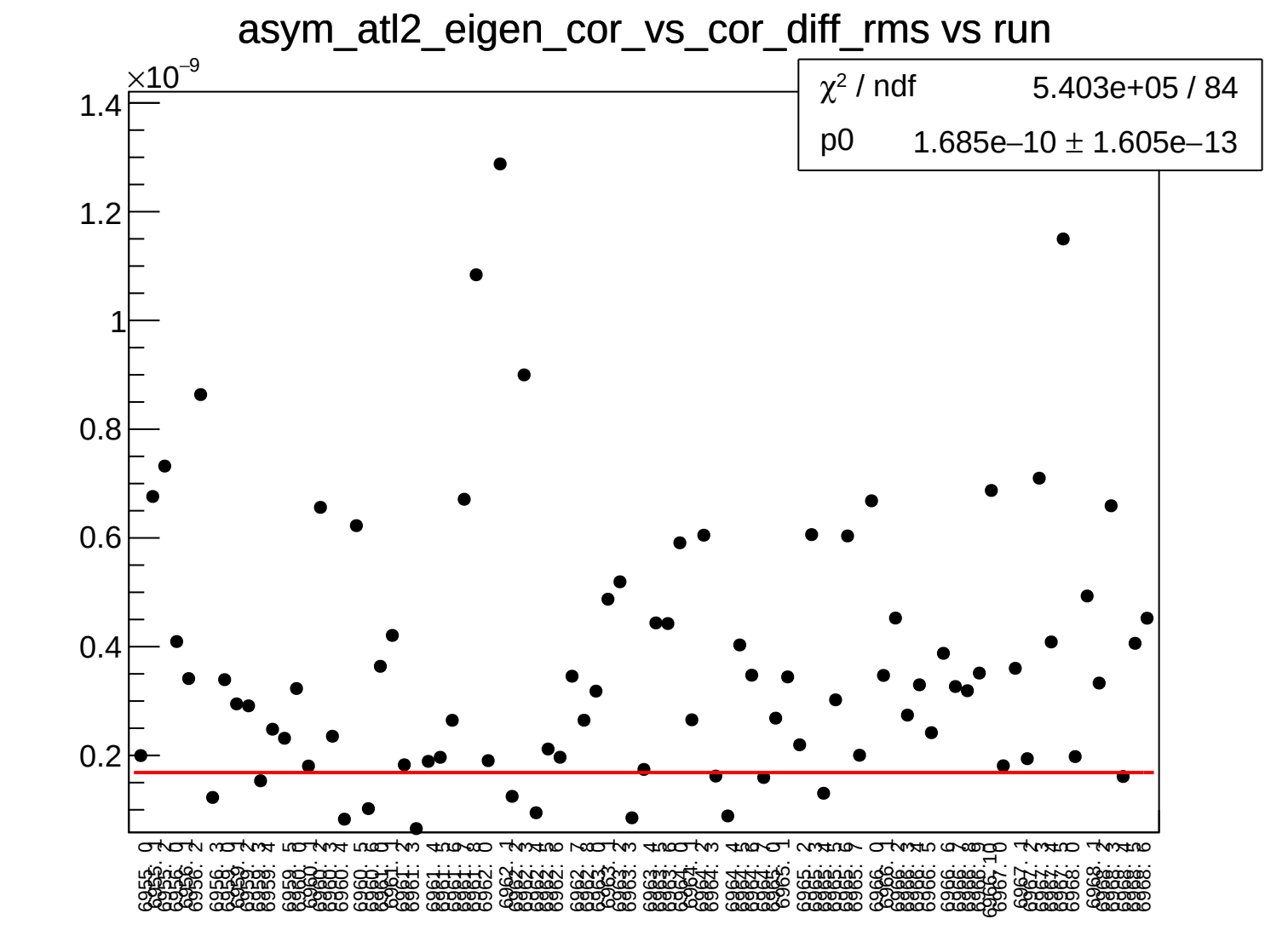

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.661e+04 / 84
p0 772.9 ± 0.6061
1100
1000
900
800
700
600

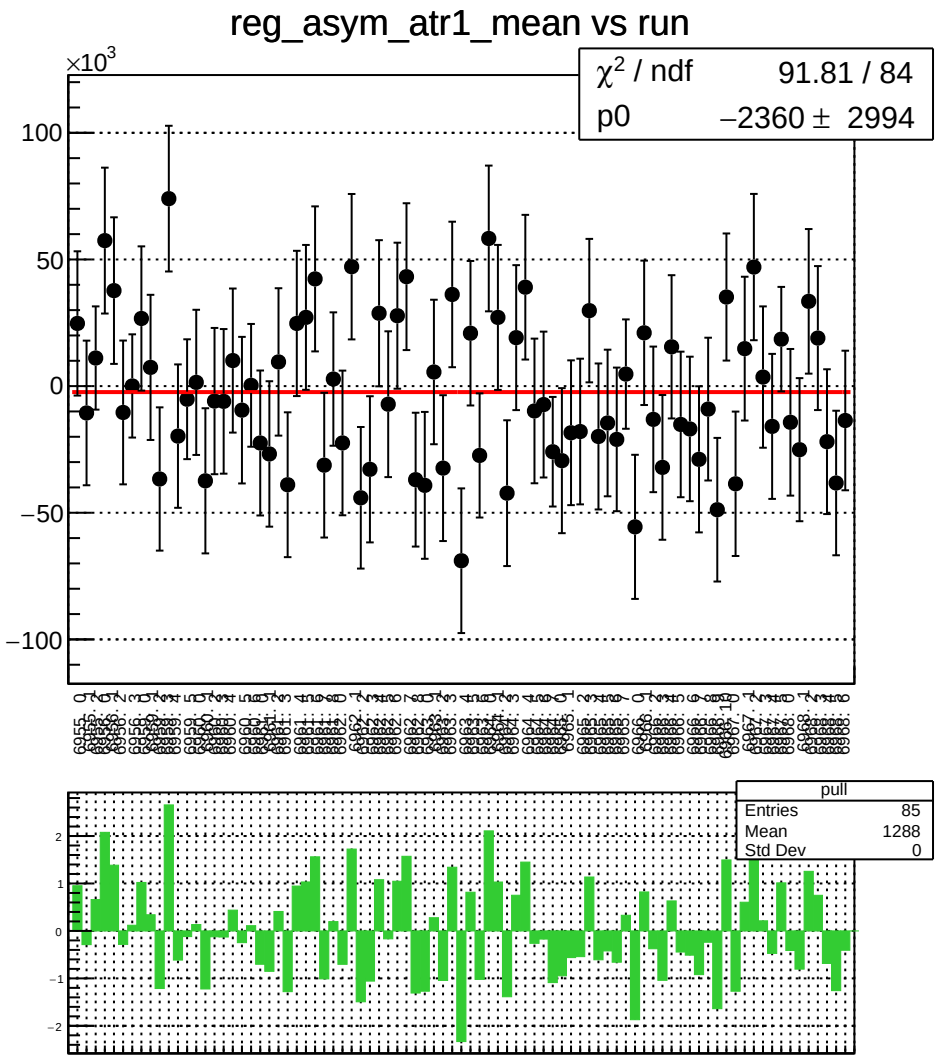

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.46 / 84
p0 −0.9037 ± 0.8572
pull
Entries 85
Mean 142.6
Std Dev 0
pull1D
Entries 85
Mean −0.01497
Std Dev 1.014

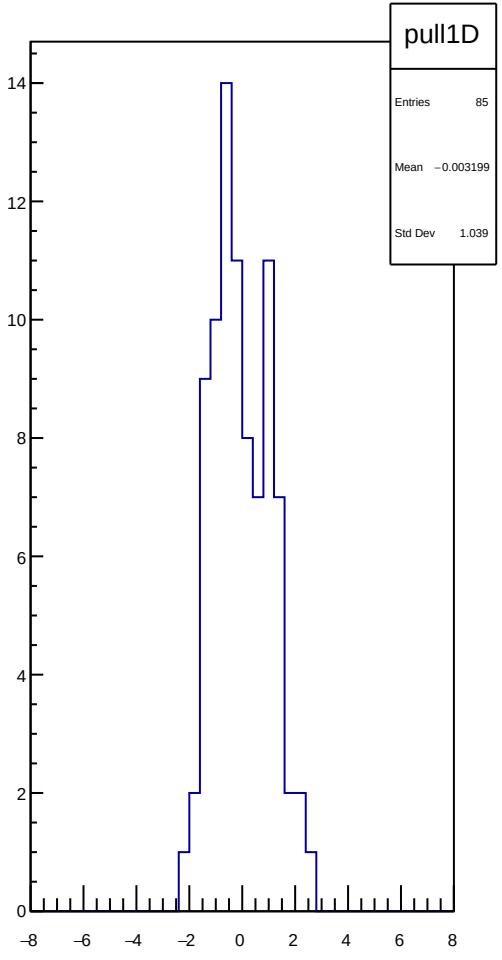

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.661e+04 / 84
p0 772.9 ± 0.6061
1100
1000
900
800
700
600

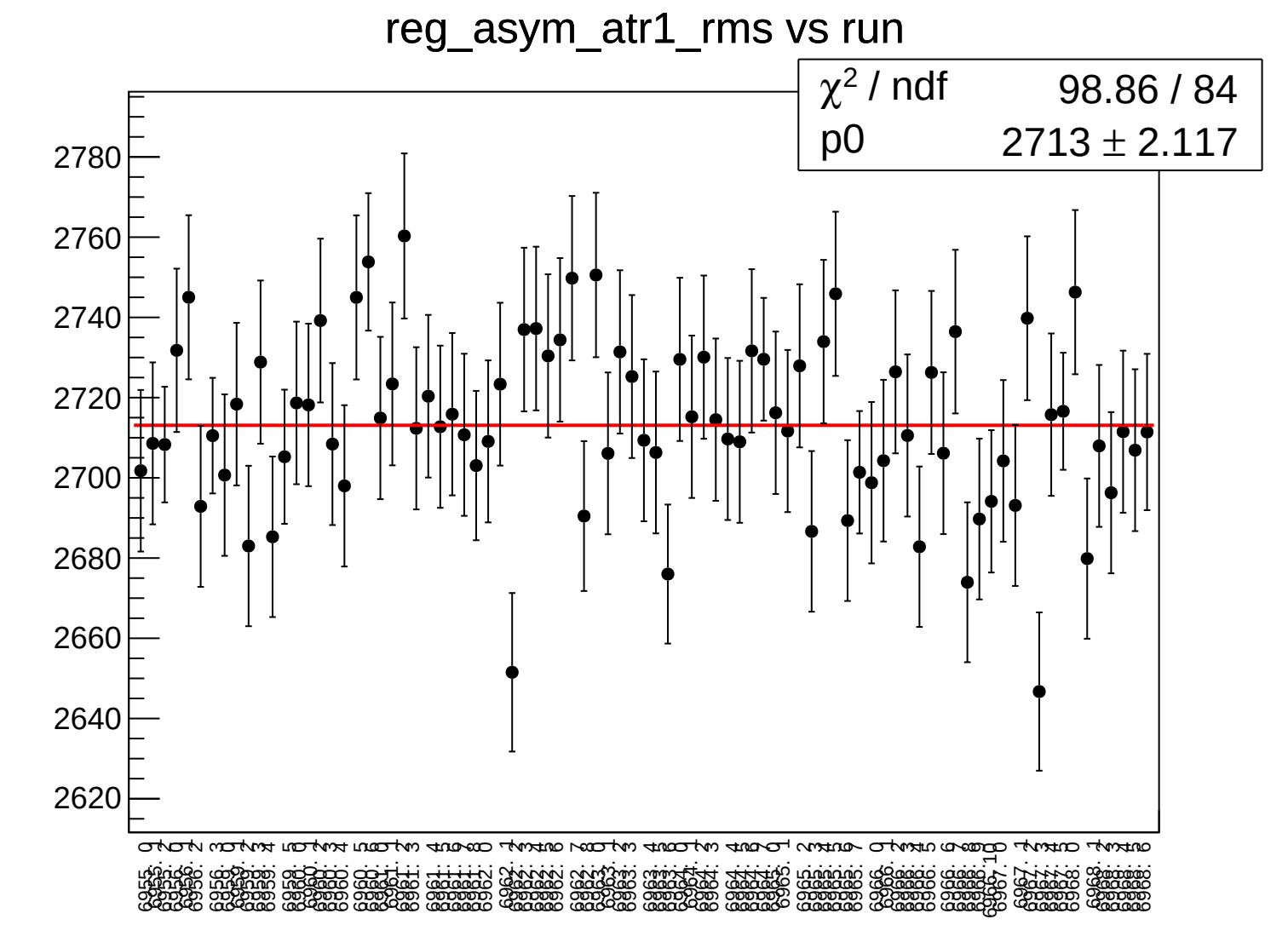

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.5 / 84
p0 −4.21e−14 ± 2.27e−13
pull
Entries 85
Mean 103.9
Std Dev 0

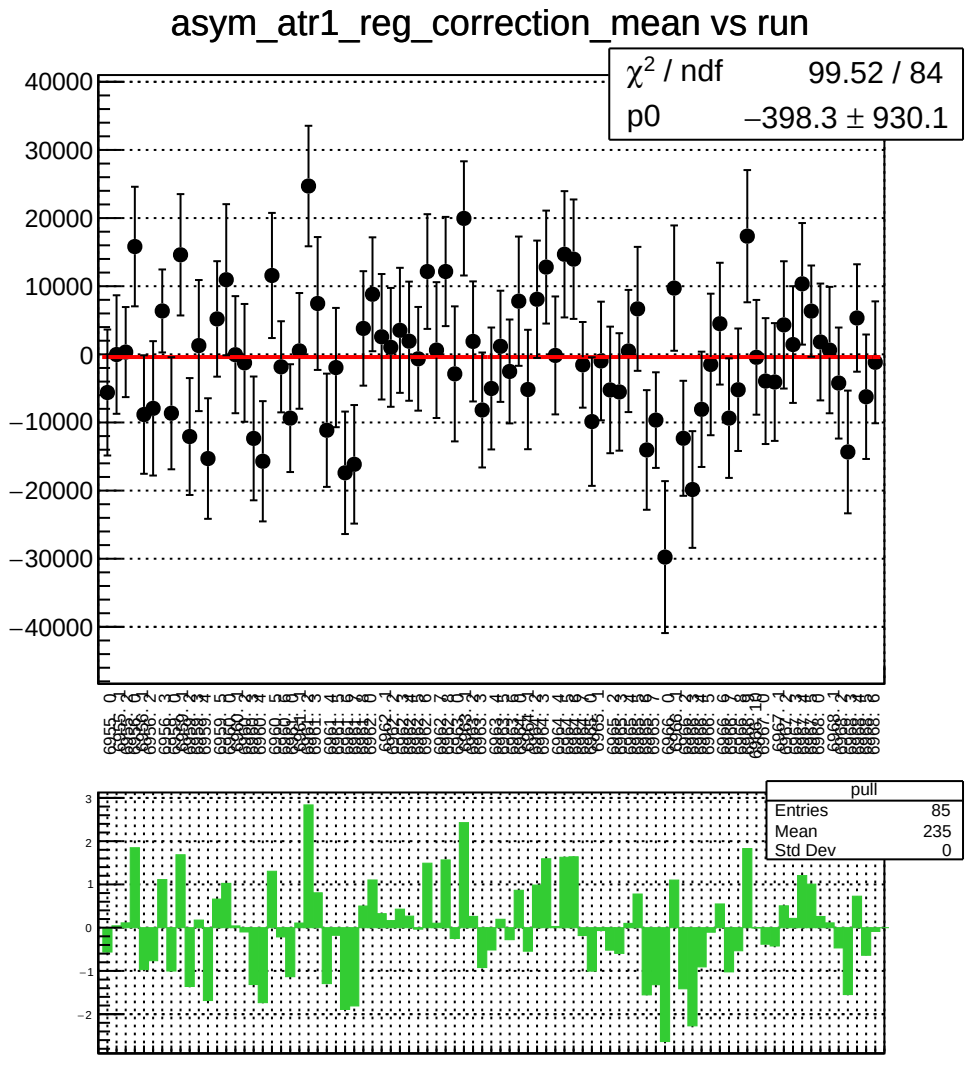

pull1D
Entries 85
Mean −0.03228
Std Dev 0.836

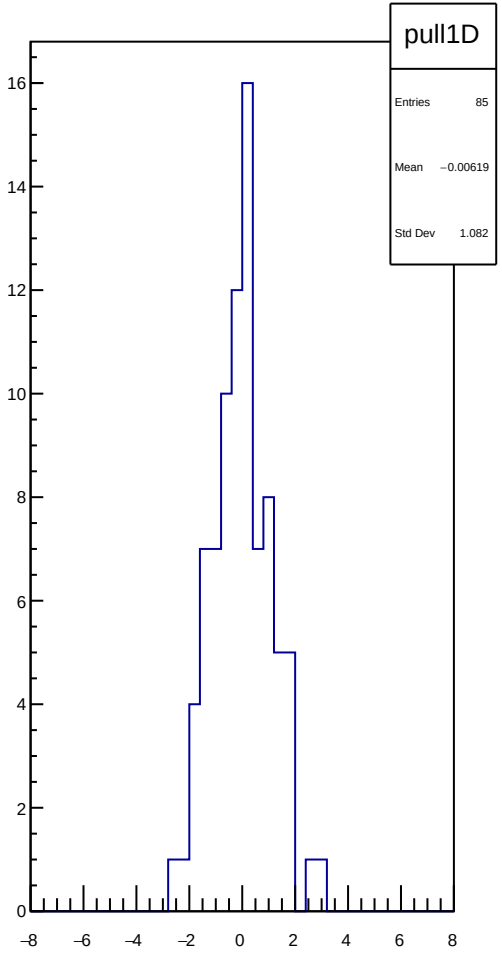

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.403e+05 / 84
p0 1.685e−10 ± 1.605e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

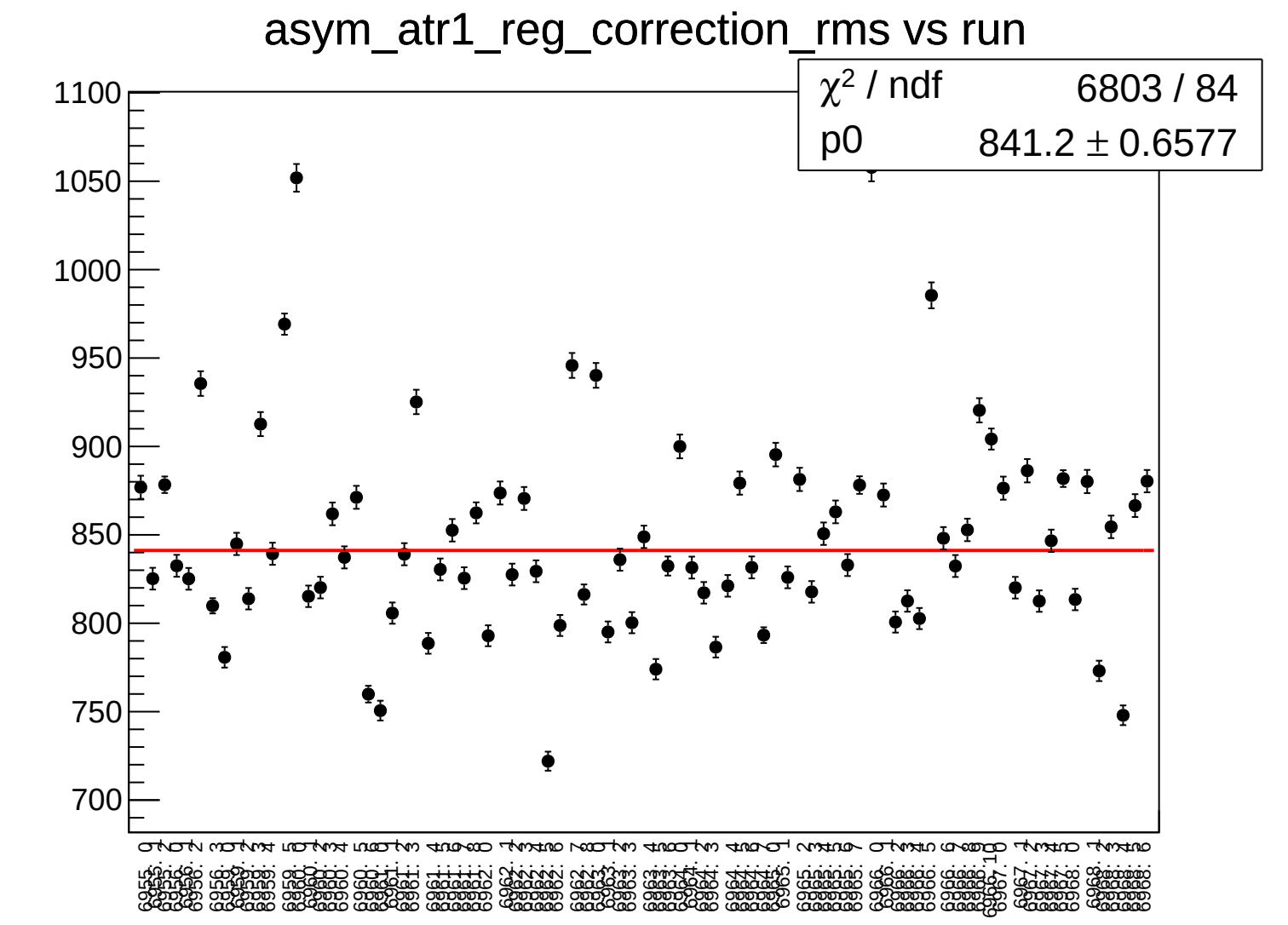

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 91.81 / 84
p0 −2360 ± 2994
100
50
0
−50
−100
pull
Entries 85
Mean 1288
Std Dev 0
2
1
0
−1
−2

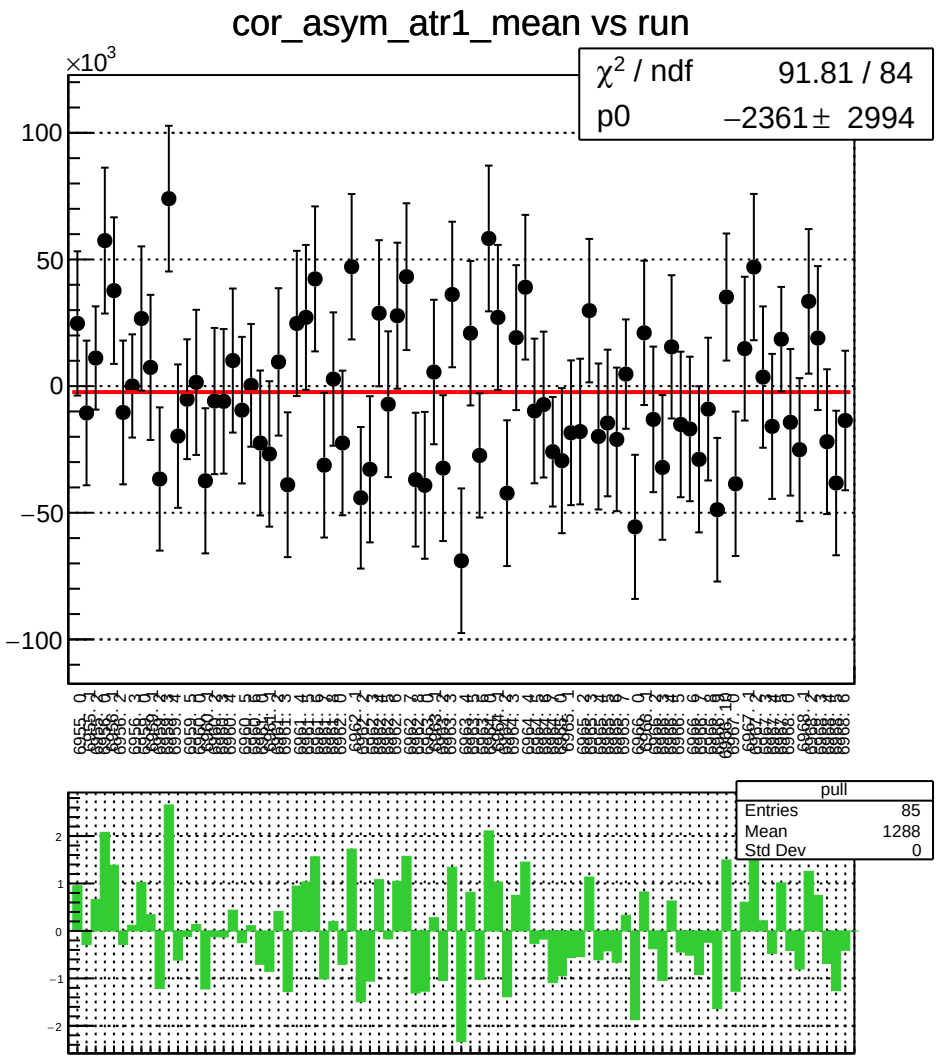

pull1D
Entries 85
Mean −0.003199
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

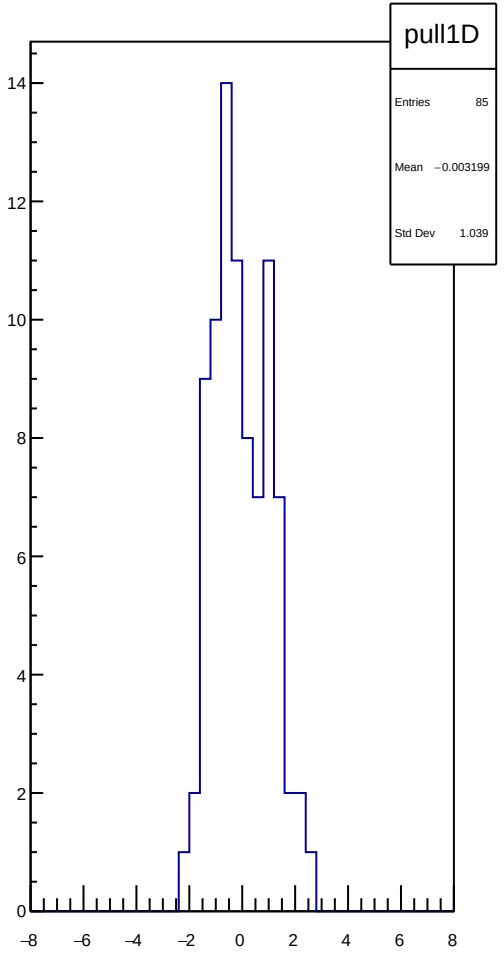

reg_asym_atr1_rms vs run
$\chi^2$ / ndf 98.86 / 84
p0 2713 ± 2.117
2780
2760
2740
2720
2700
2680
2660
2640
2620

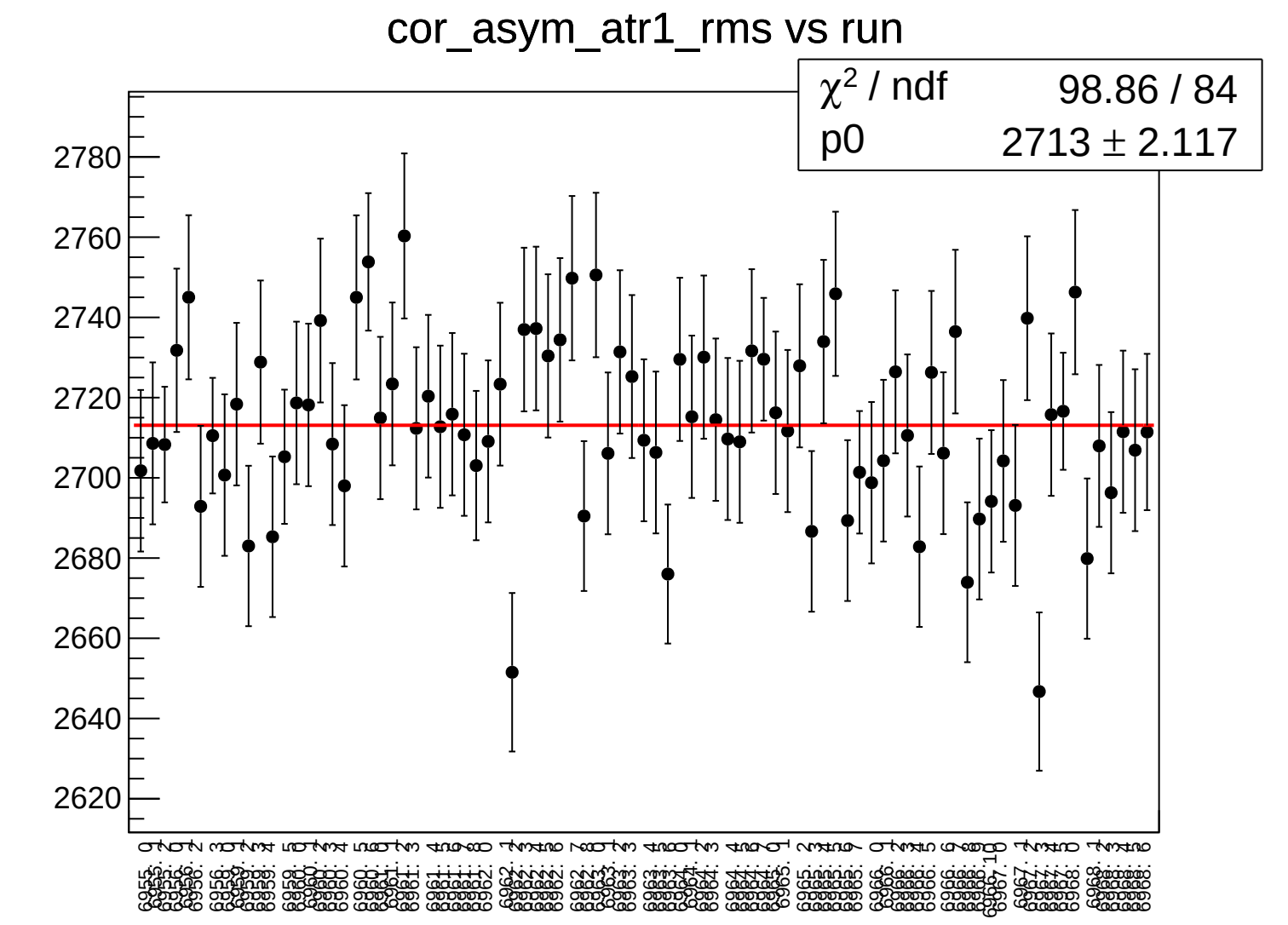

asym_atr1_reg_correction_mean vs run
χ² / ndf 99.52 / 84
p0 −398.3 ± 930.1
pull
Entries 85
Mean 235
Std Dev 0

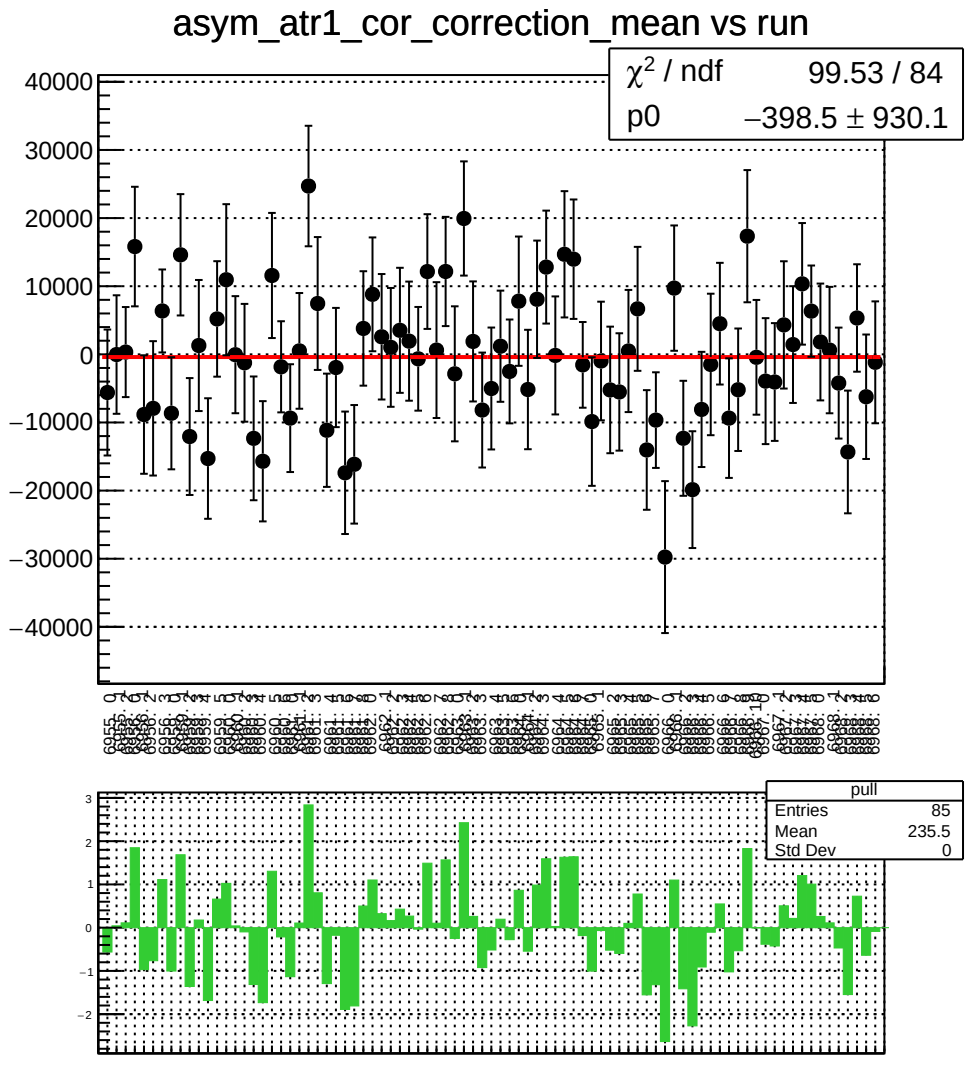

pull1D
Entries 85
Mean −0.00619
Std Dev 1.082

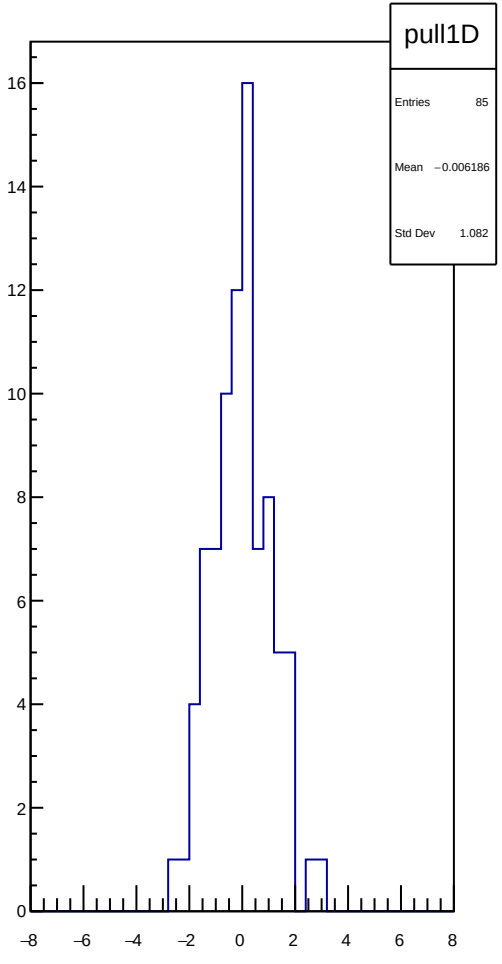

asym_atr1_reg_correction_rms vs run
χ² / ndf 6803 / 84
p0 841.2 ± 0.6577
1100
1050
1000
950
900
850
800
750
700

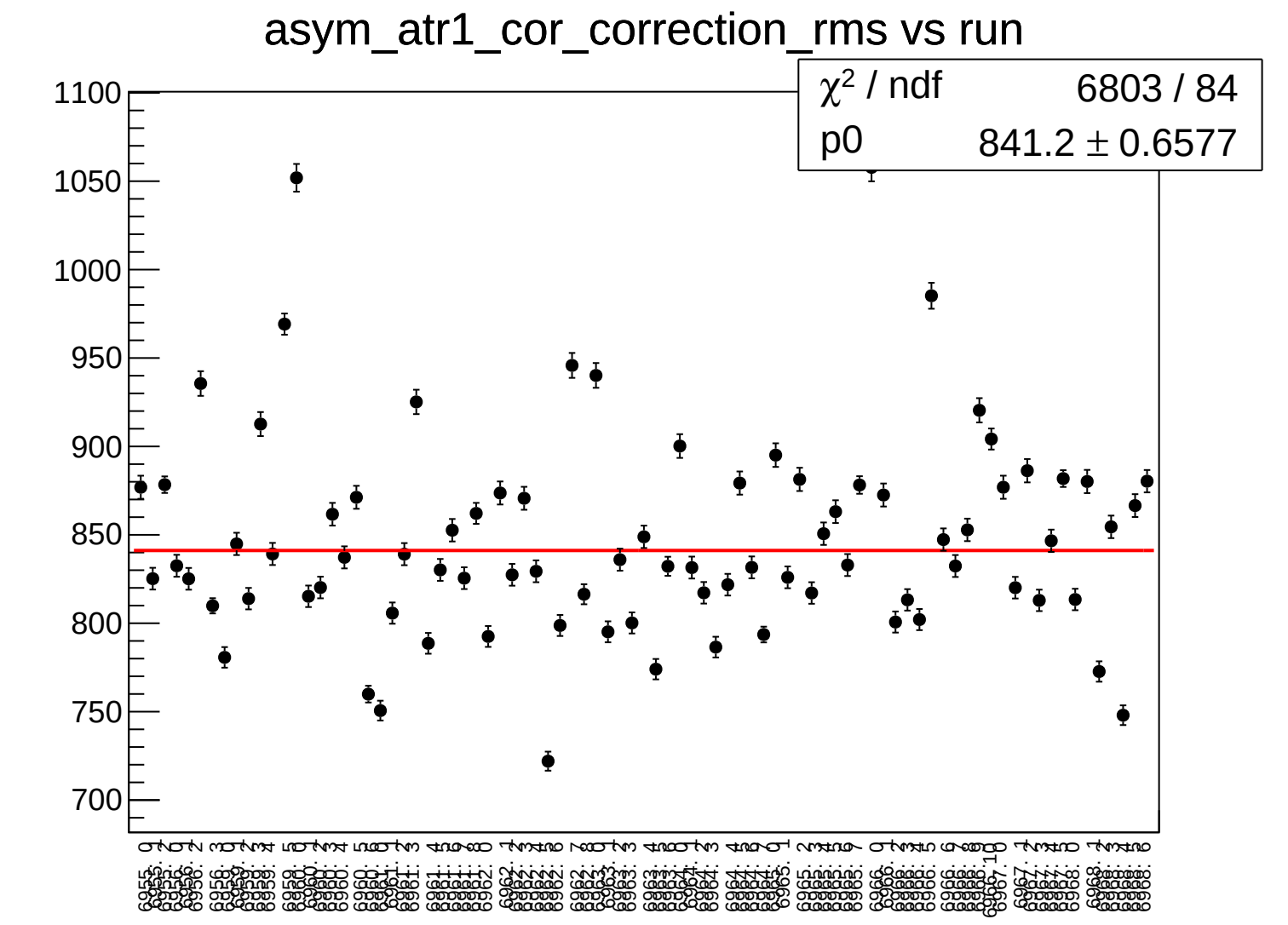

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 91.81 / 84
p0 −2361 ± 2994
100
50
0
−50
−100
pull
Entries 85
Mean 1288
Std Dev 0
2
1
0
−1
−2

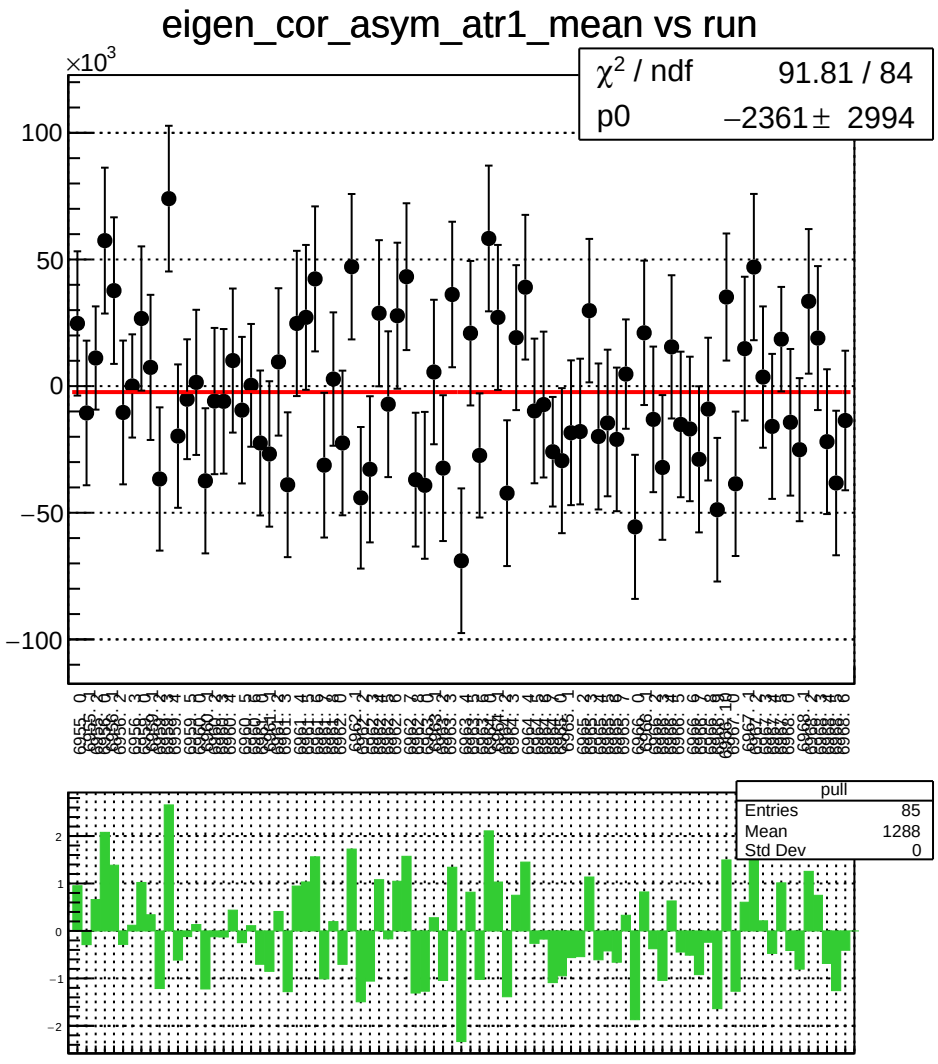

pull1D
Entries 85
Mean −0.003199
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

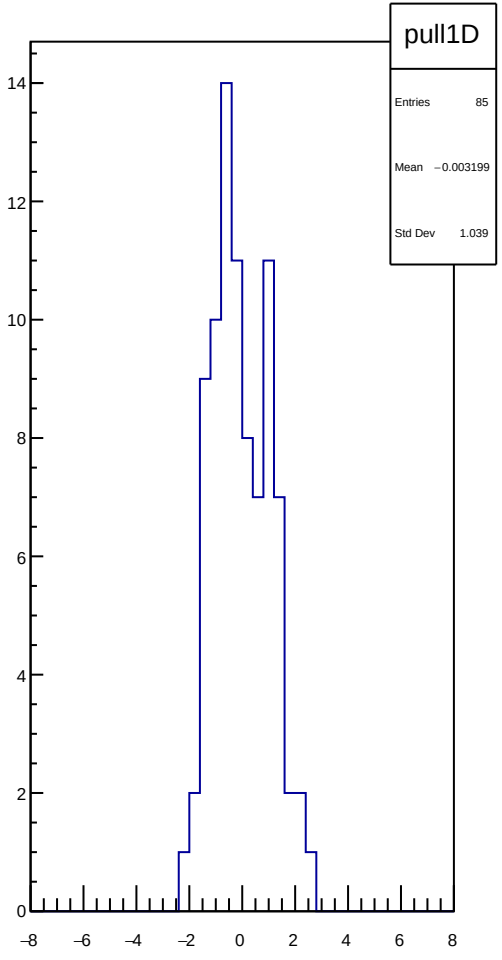

cor_asym_atr1_rms vs run
χ² / ndf 98.86 / 84
p0 2713 ± 2.117
2780
2760
2740
2720
2700
2680
2660
2640
2620

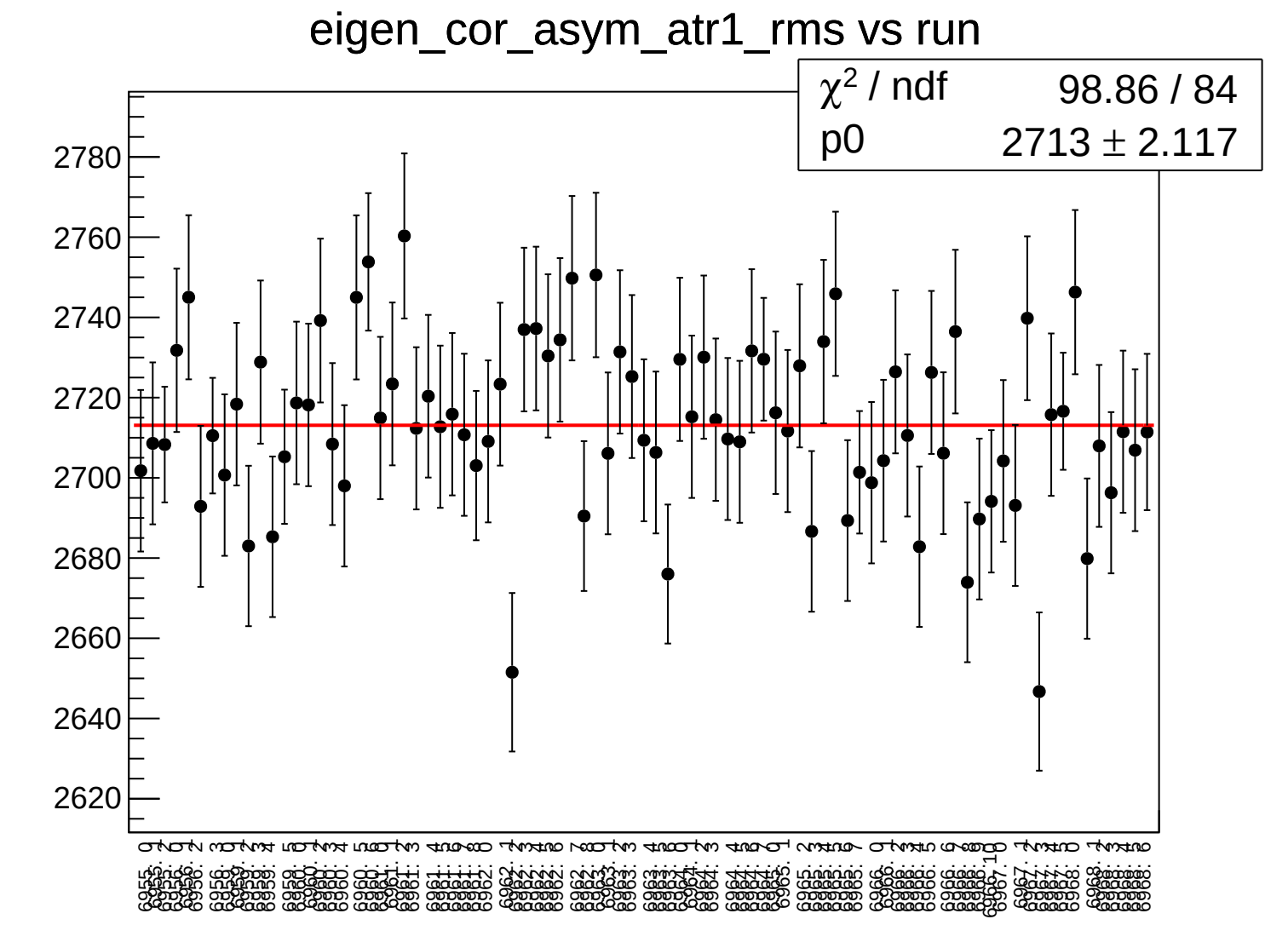

asym_atr1_cor_correction_mean vs run
χ² / ndf 99.53 / 84
p0 −398.5 ± 930.1
pull
Entries 85
Mean 235.5
Std Dev 0

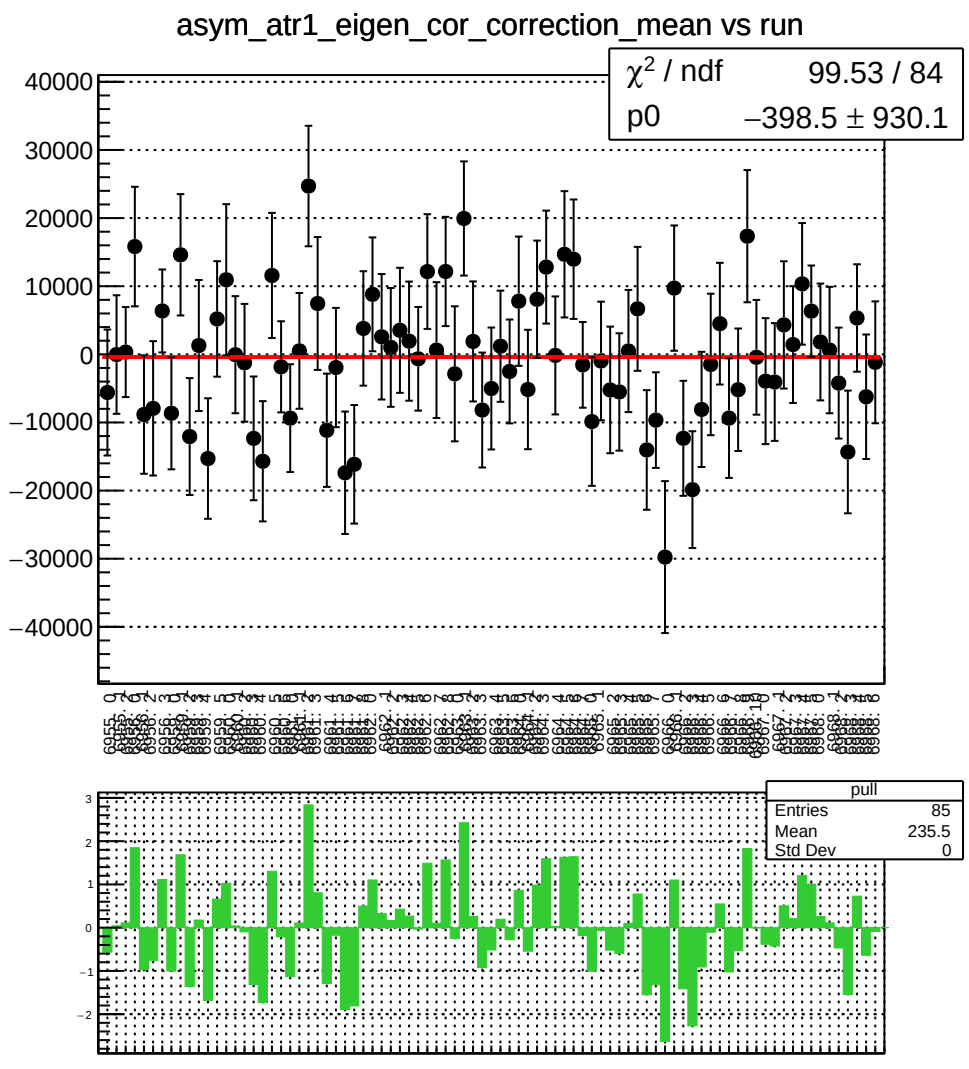

pull1D
Entries 85
Mean −0.006186
Std Dev 1.082

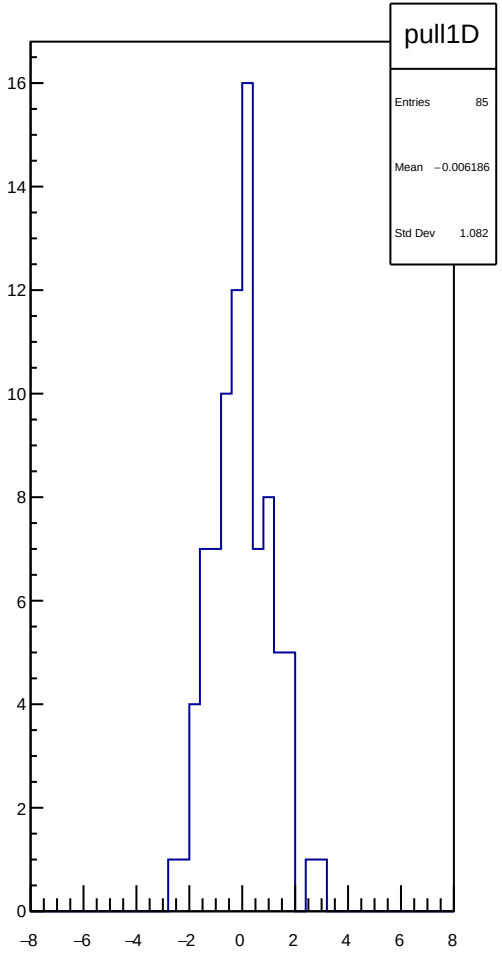

asym_atr1_cor_correction_rms vs run
χ² / ndf 6803 / 84
p0 841.2 ± 0.6577
1100
1050
1000
950
900
850
800
750
700

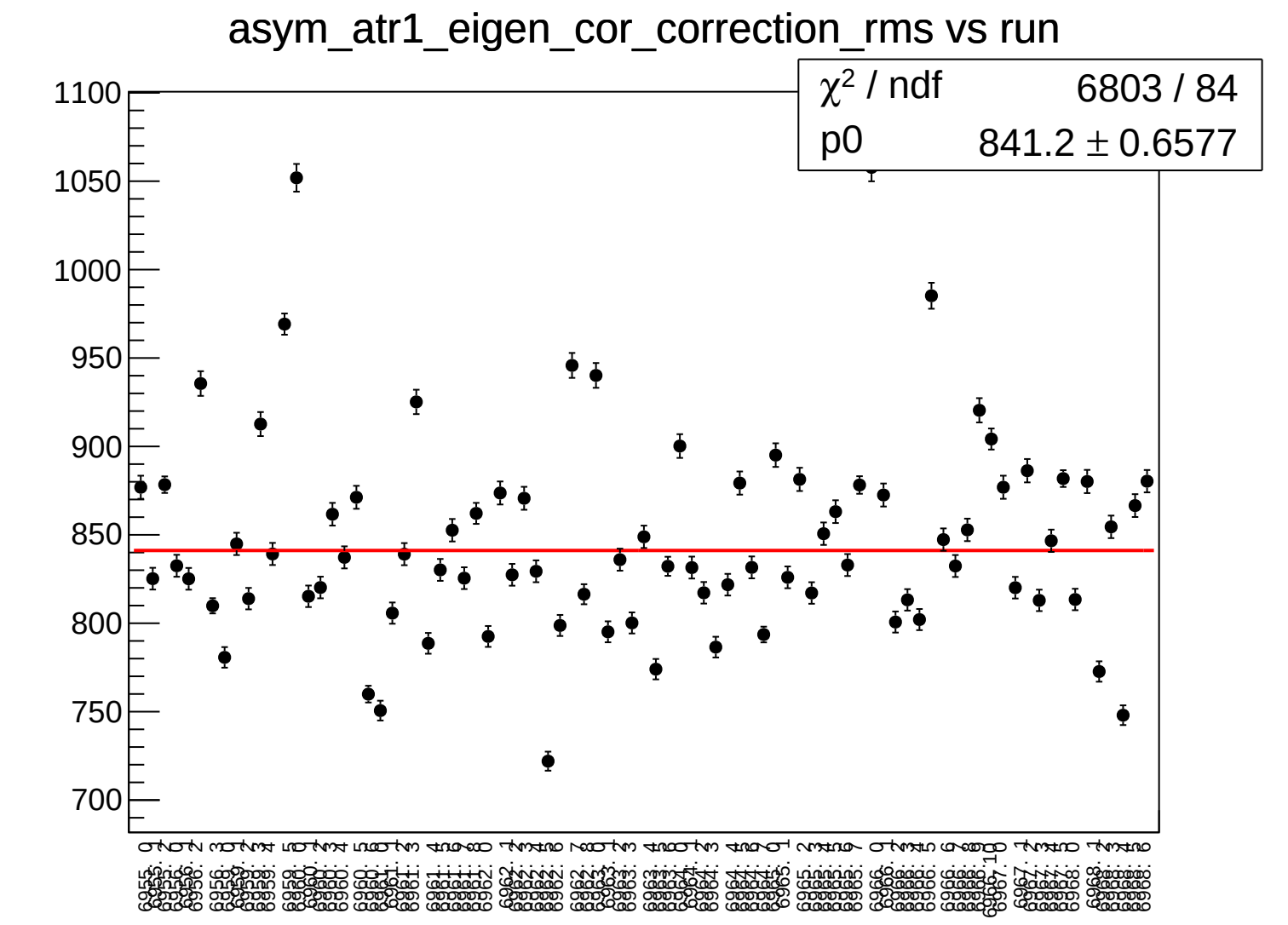

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 91.81 / 84
p0 −2361 ± 2994
100
50
0
−50
−100
pull
Entries 85
Mean 1288
Std Dev 0
2
1
0
−1
−2

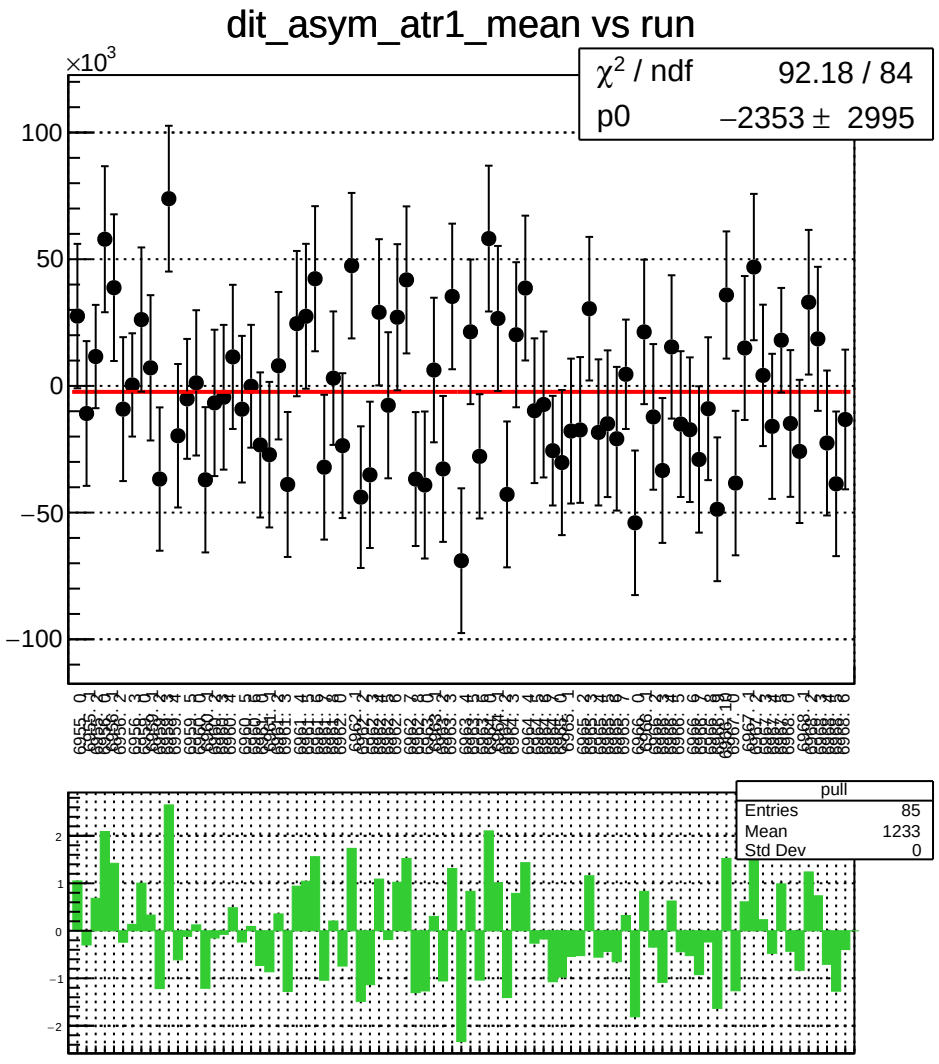

pull1D
Entries 85
Mean −0.003199
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

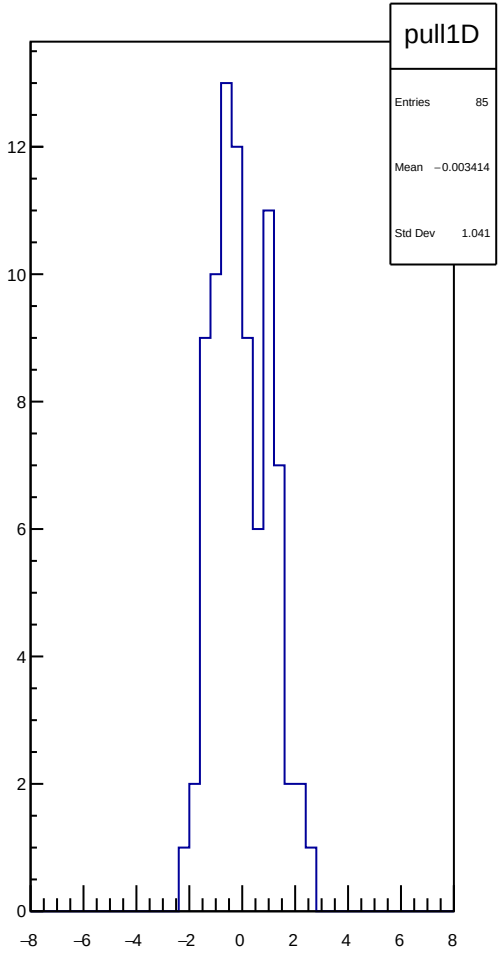

eigen_cor_asym_atr1_rms vs run
χ² / ndf 98.86 / 84
p0 2713 ± 2.117
2780
2760
2740
2720
2700
2680
2660
2640
2620

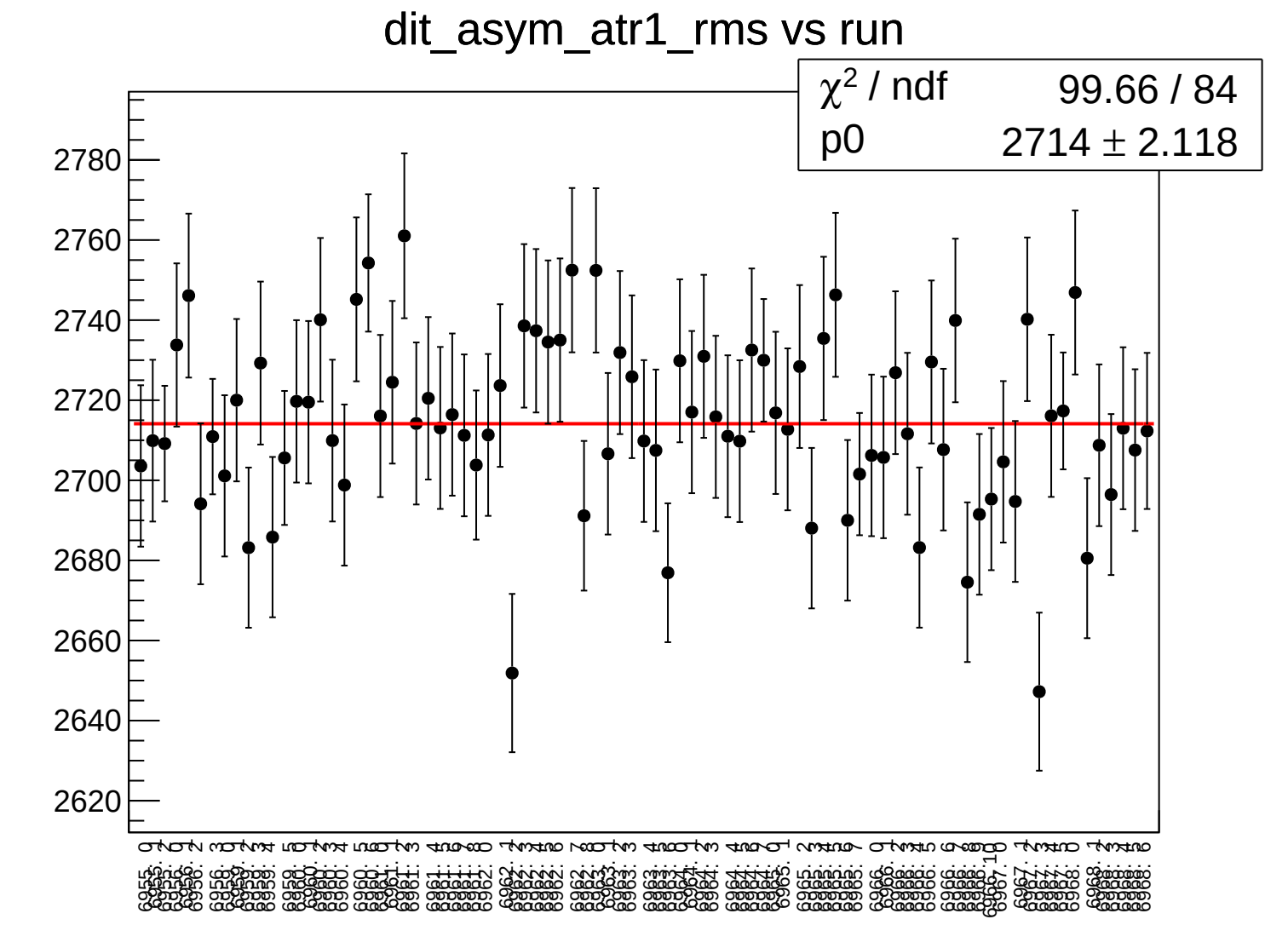

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 99.53 / 84
p0 −398.5 ± 930.1
pull
Entries 85
Mean 235.5
Std Dev 0

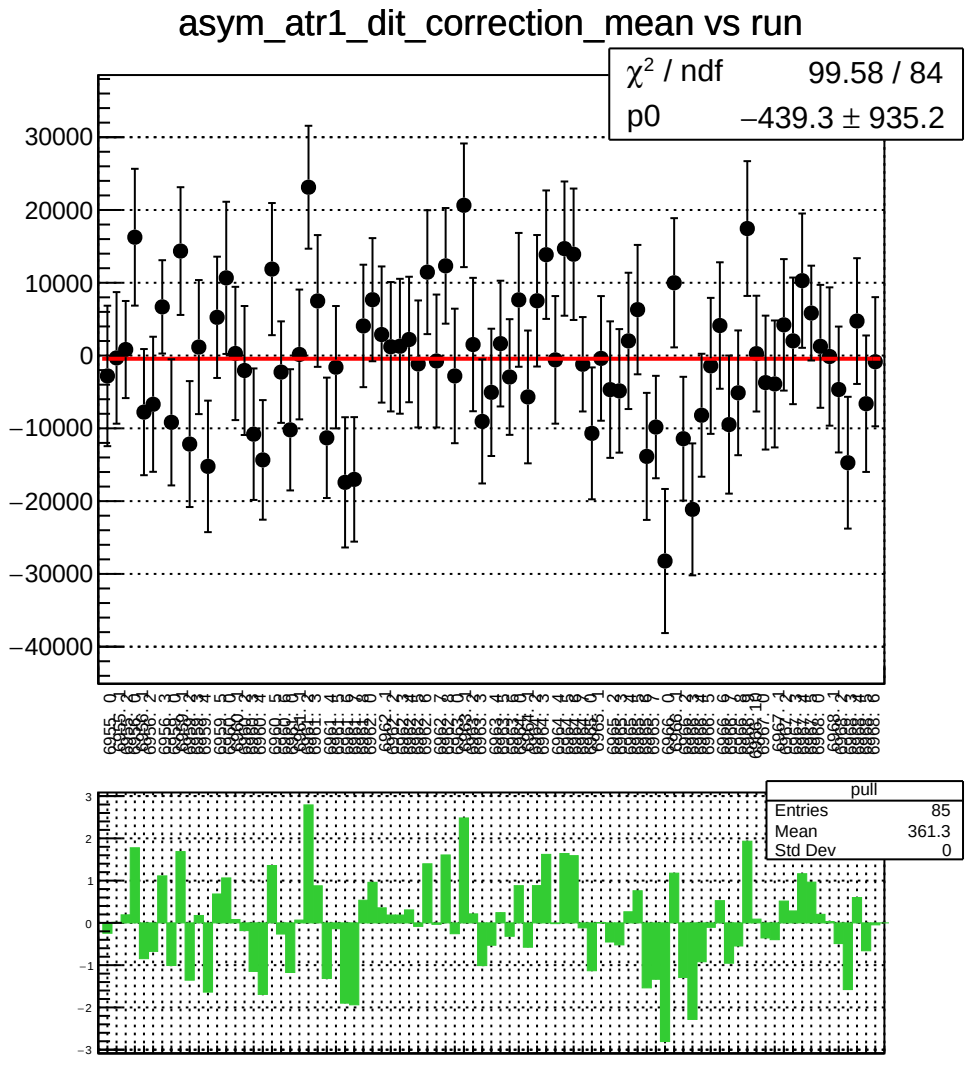

pull1D
Entries 85
Mean −0.006186
Std Dev 1.082

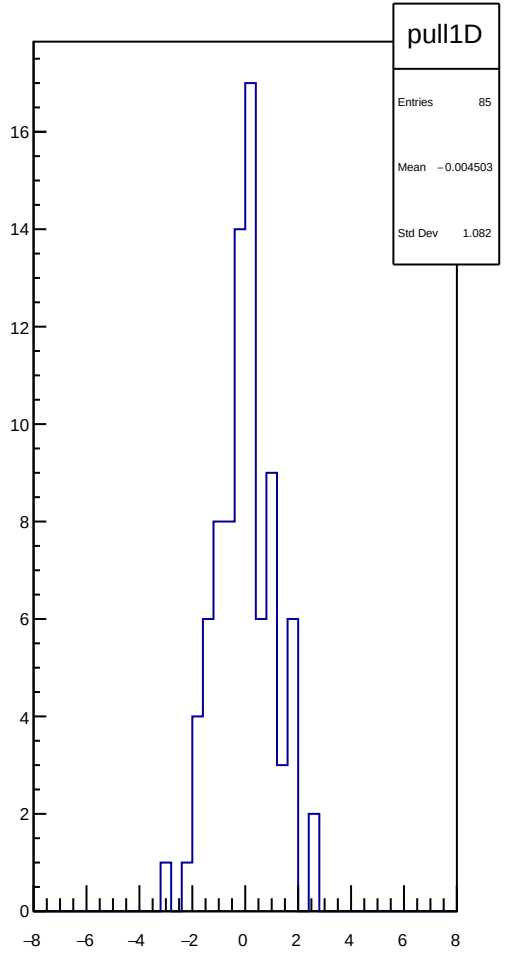

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 6803 / 84
p0 841.2 ± 0.6577
1100
1050
1000
950
900
850
800
750
700

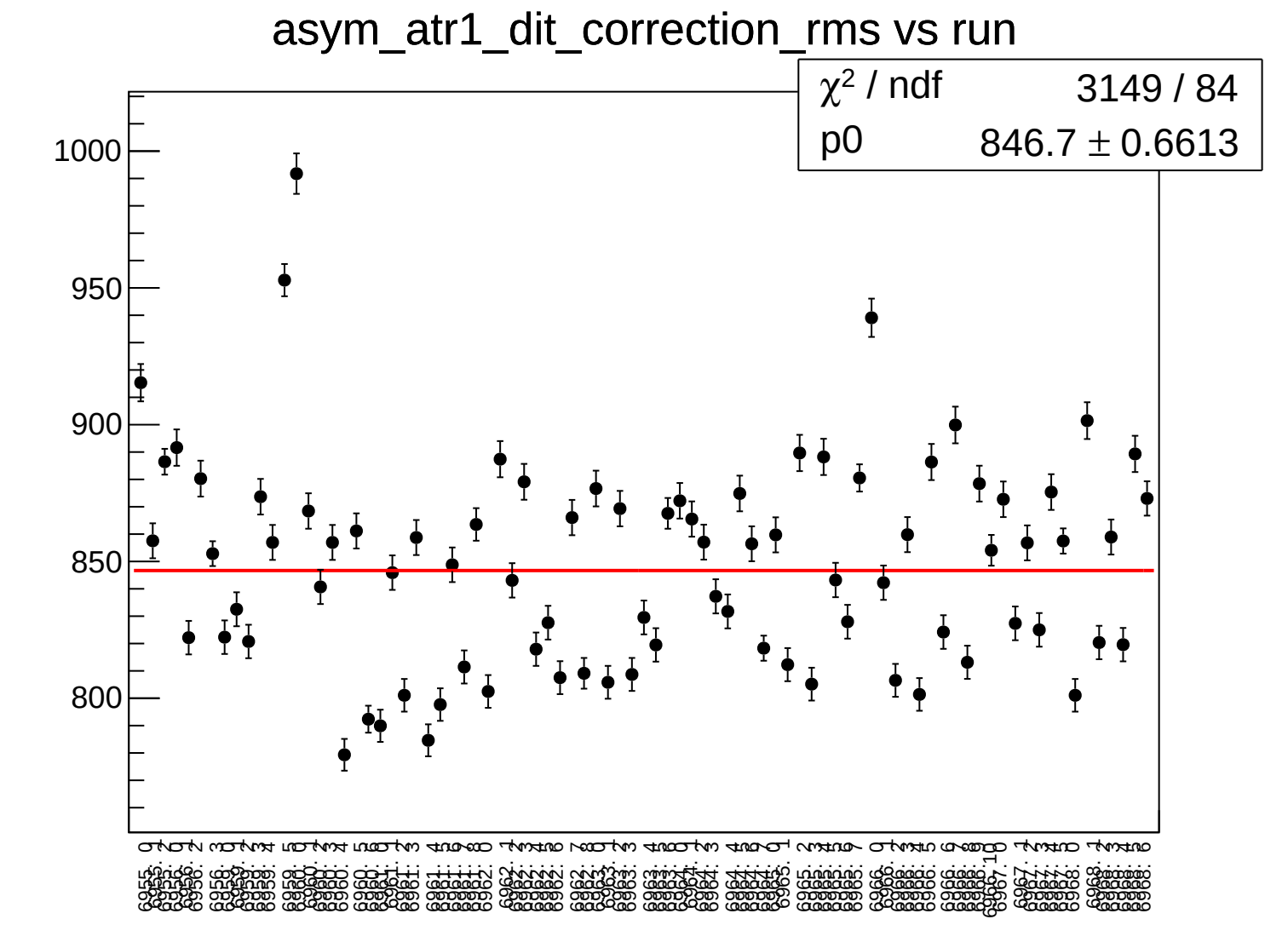

dit_asym_atr1_mean vs run
$\chi^2$ / ndf 92.18 / 84
p0 −2353 ± 2995
×10^3
100
50
0
−50
−100
pull
Entries 85
Mean 1233
Std Dev 0
2
1
0
−1
−2

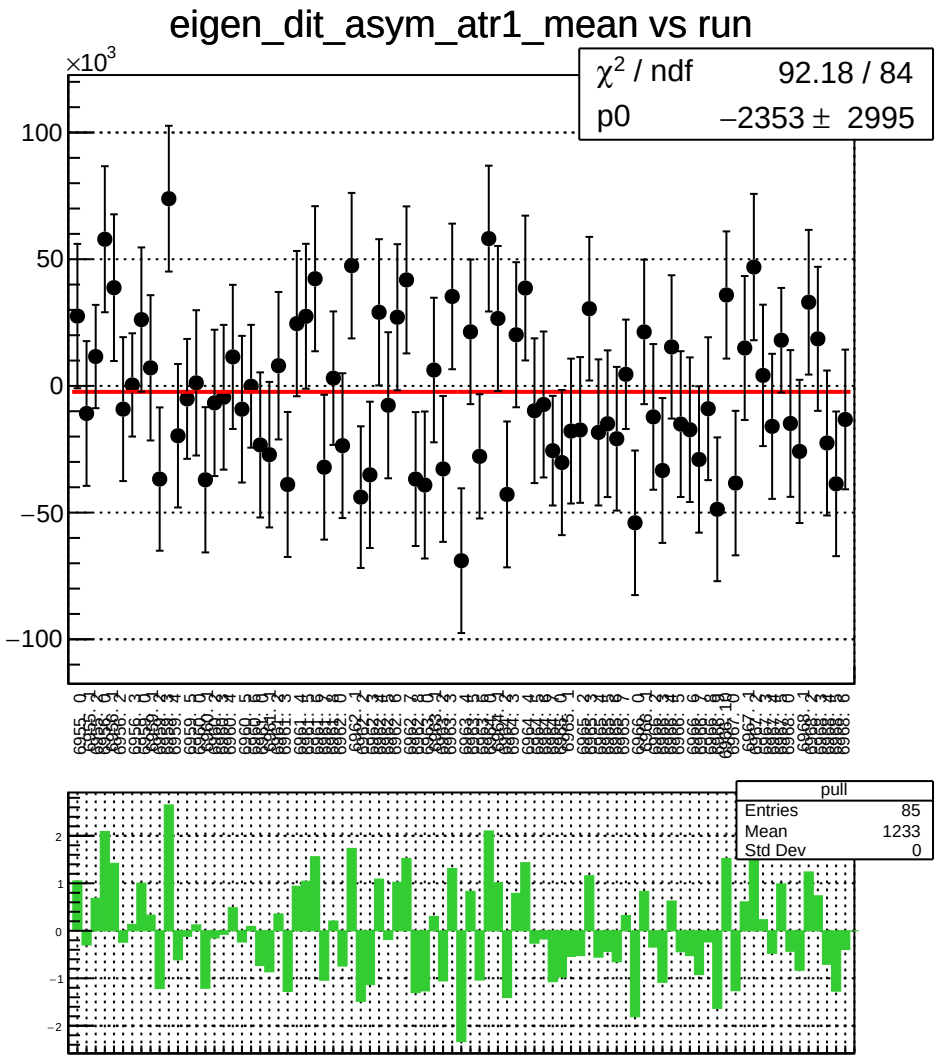

pull1D
Entries 85
Mean −0.003414
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

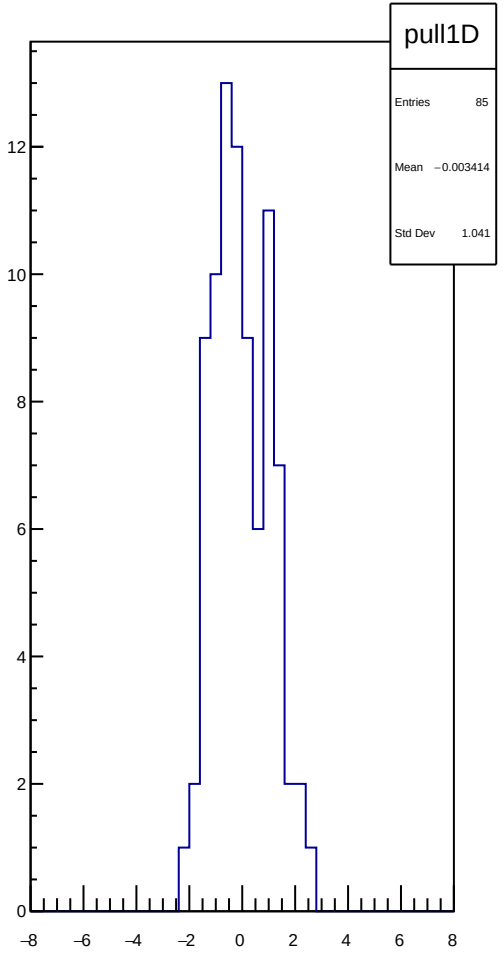

dit_asym_atr1_rms vs run
$\chi^2$ / ndf 99.66 / 84
p0 2714 ± 2.118
2780
2760
2740
2720
2700
2680
2660
2640
2620

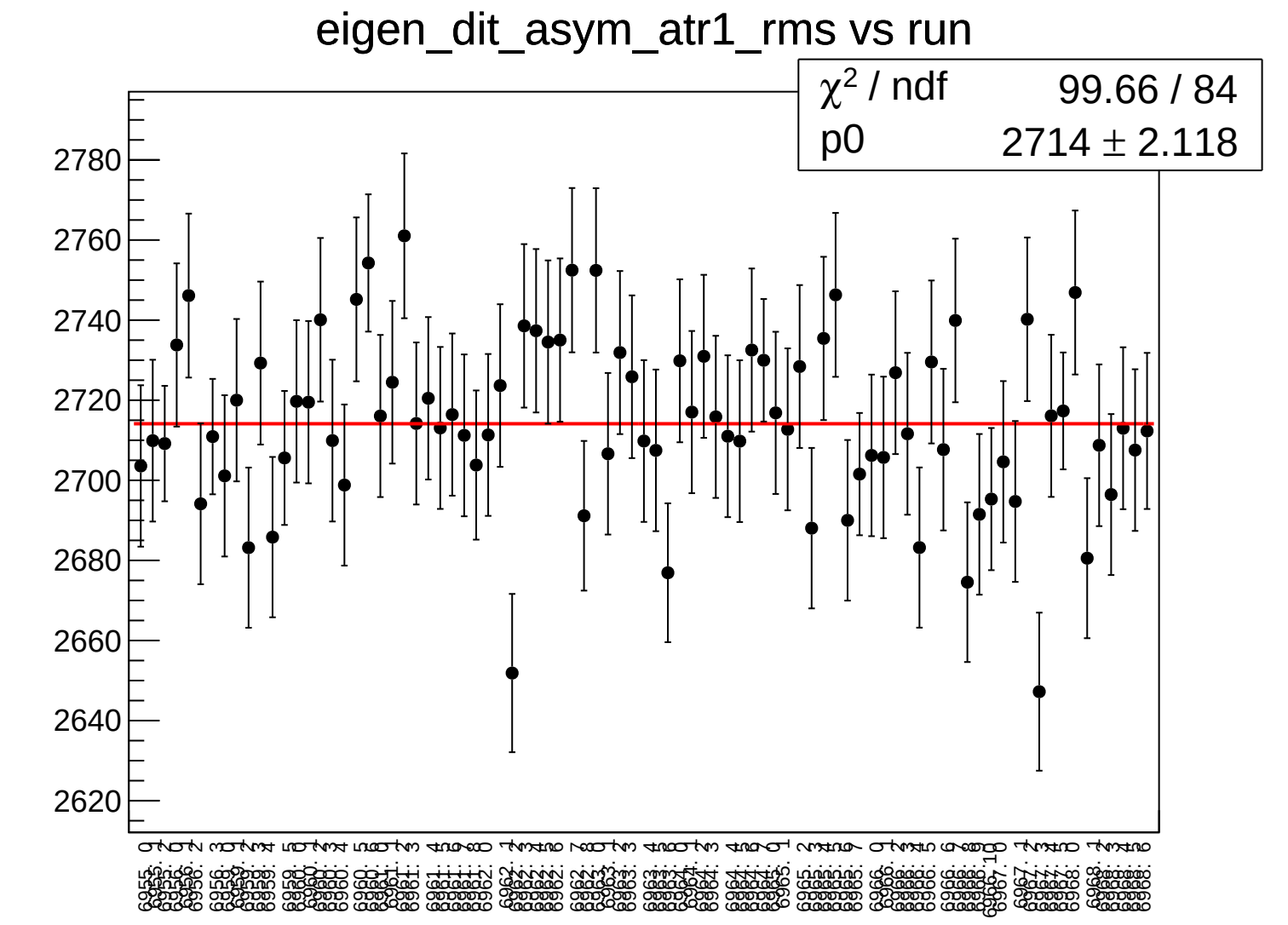

asym_atr1_dit_correction_mean vs run
χ² / ndf 99.58 / 84
p0 −439.3 ± 935.2
pull
Entries 85
Mean 361.3
Std Dev 0

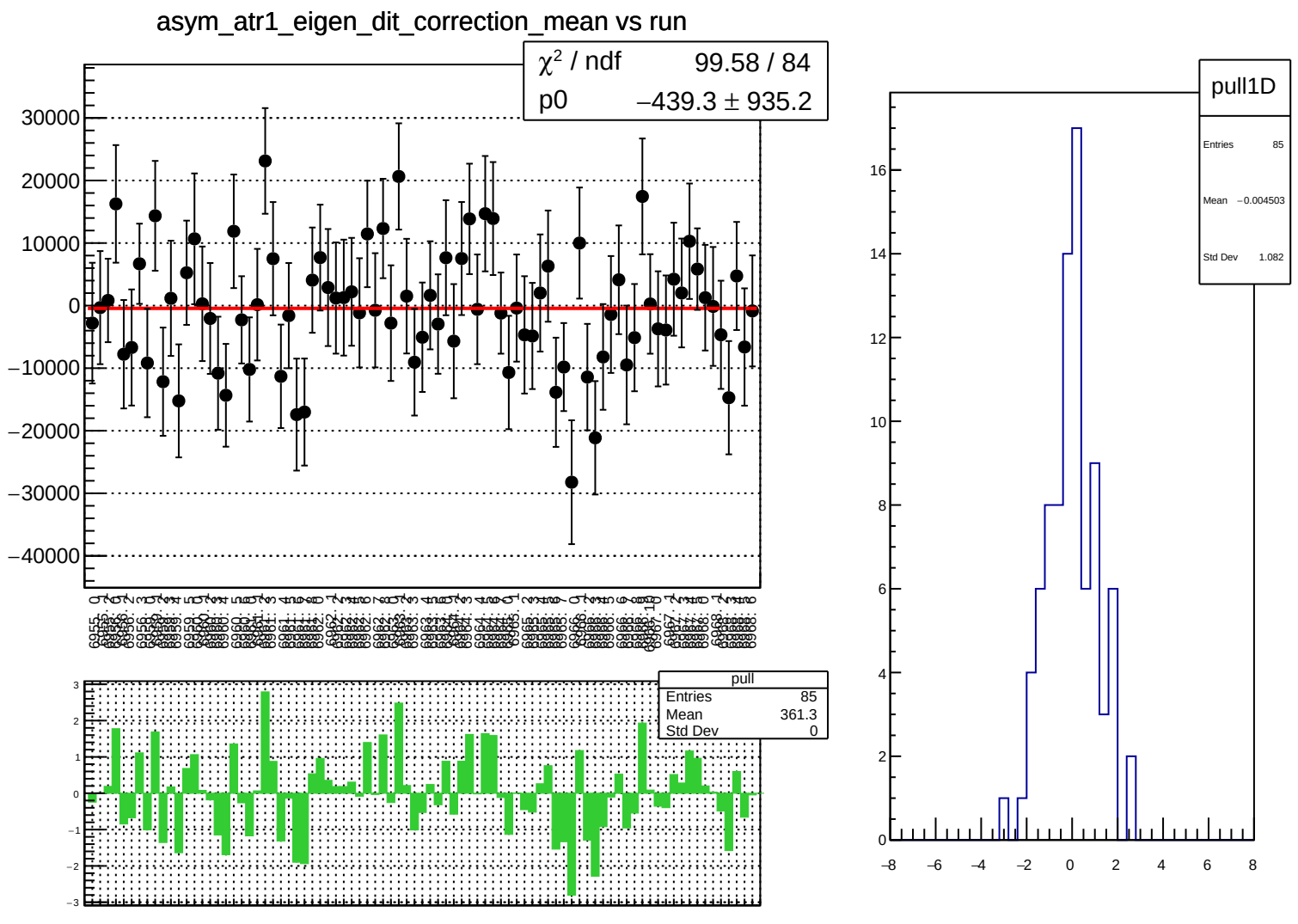

pull1D
Entries 85
Mean −0.004503
Std Dev 1.082

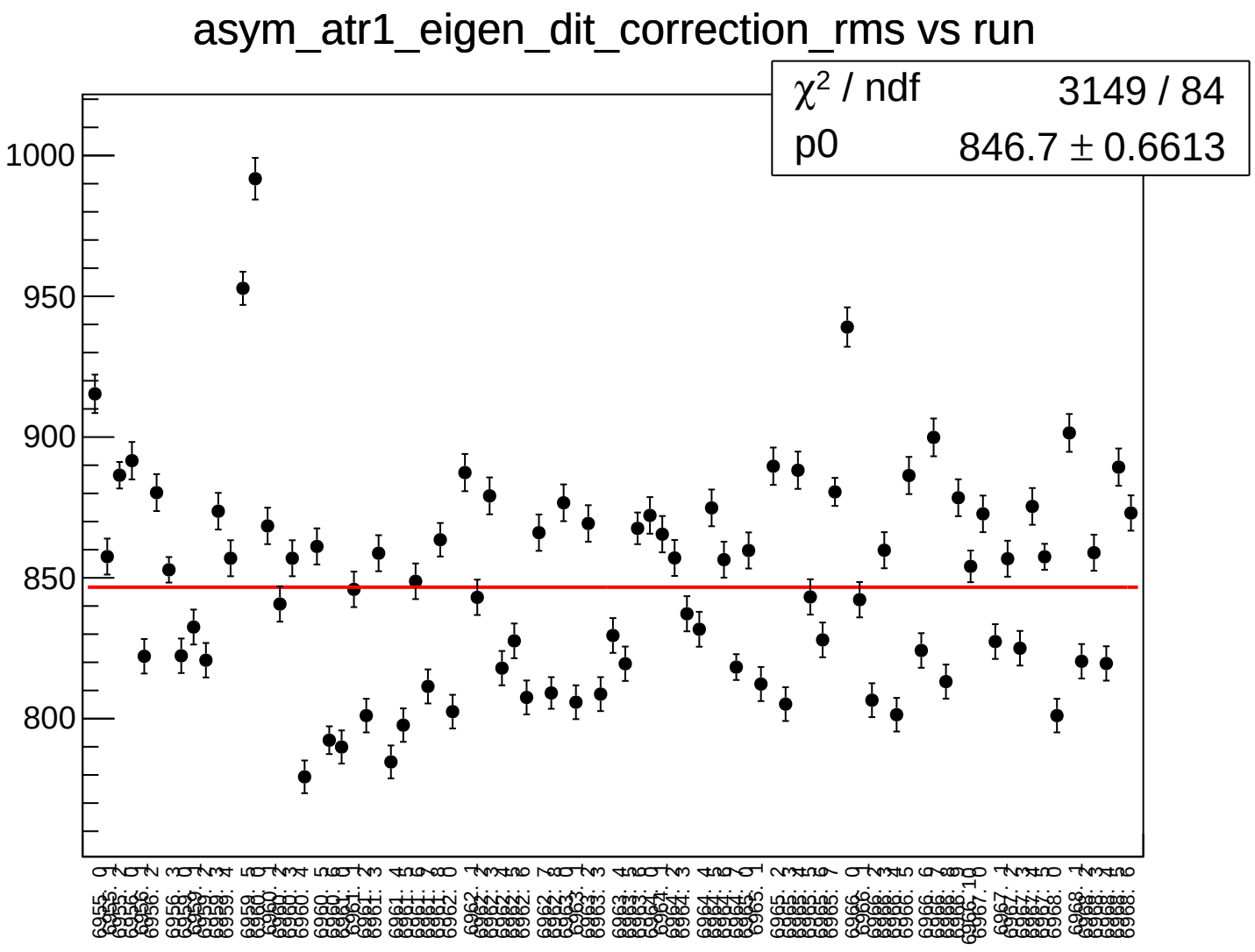

asym_atr1_dit_correction_rms vs run
χ² / ndf 3149 / 84
p0 846.7 ± 0.6613
1000
950
900
850
800

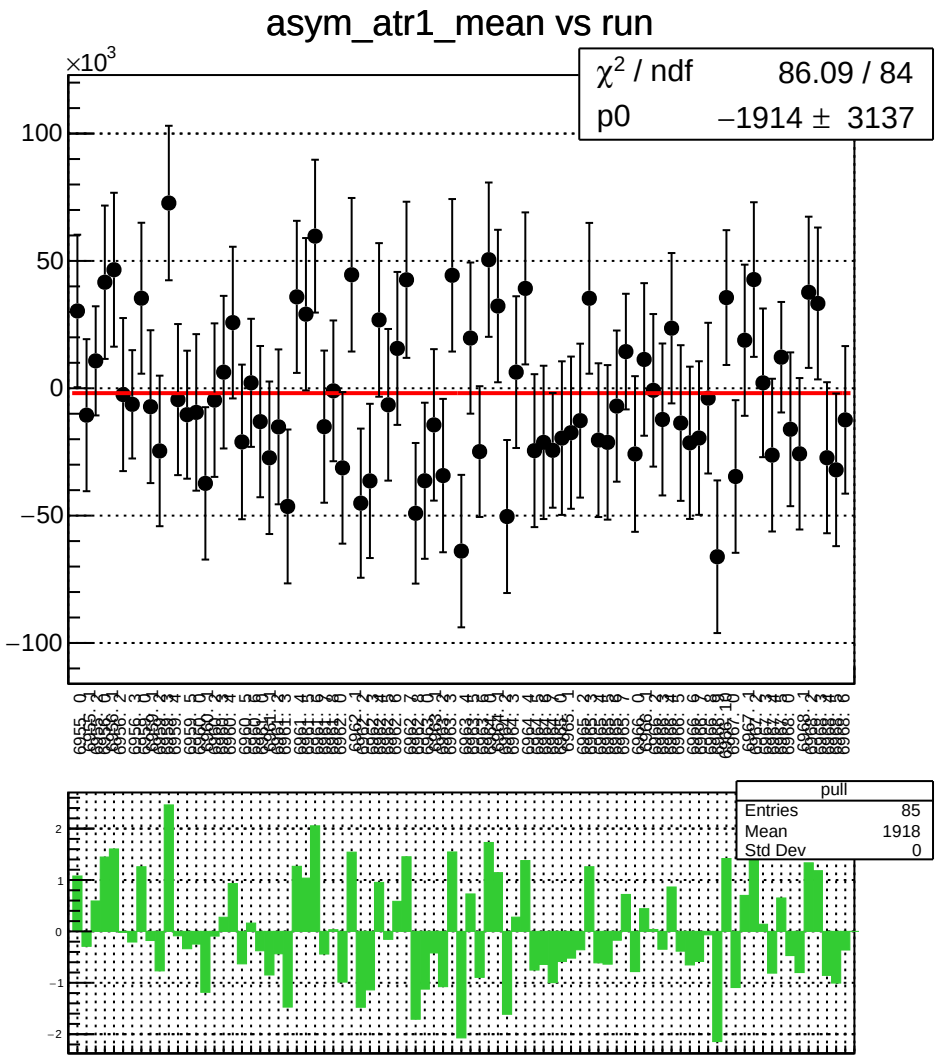

eigen_dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 92.18 / 84
p0 −2353 ± 2995
100
50
0
−50
−100
pull
Entries 85
Mean 1233
Std Dev 0
2
1
0
−1
−2

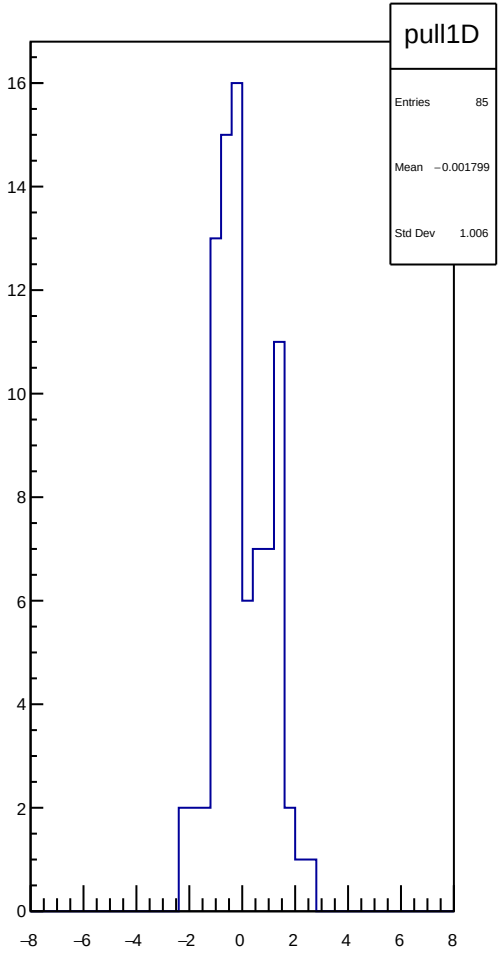

pull1D
Entries 85
Mean −0.003414
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

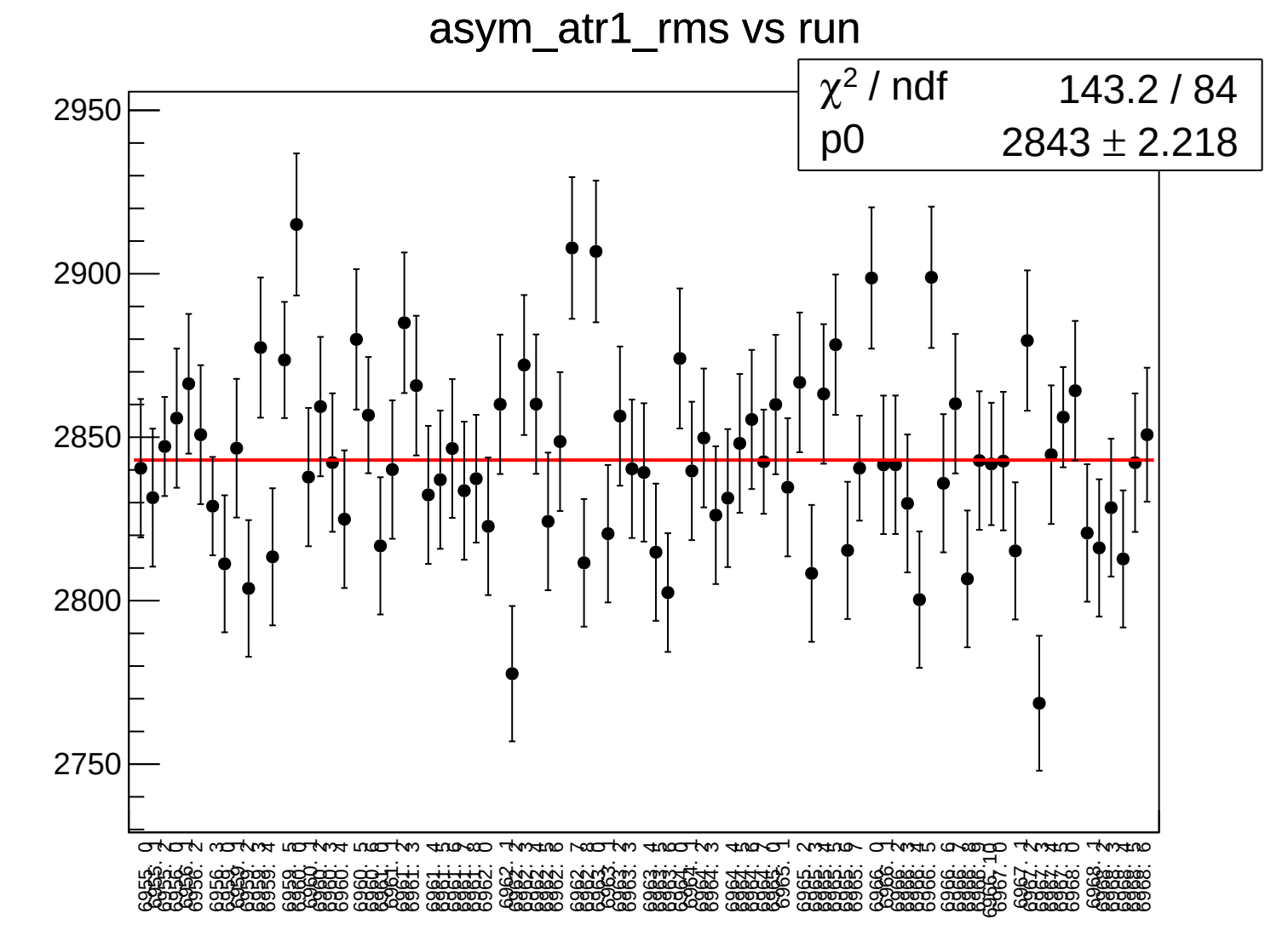

eigen_dit_asym_atr1_rms vs run
$\chi^2$ / ndf 99.66 / 84
p0 2714 ± 2.118
2780
2760
2740
2720
2700
2680
2660
2640
2620

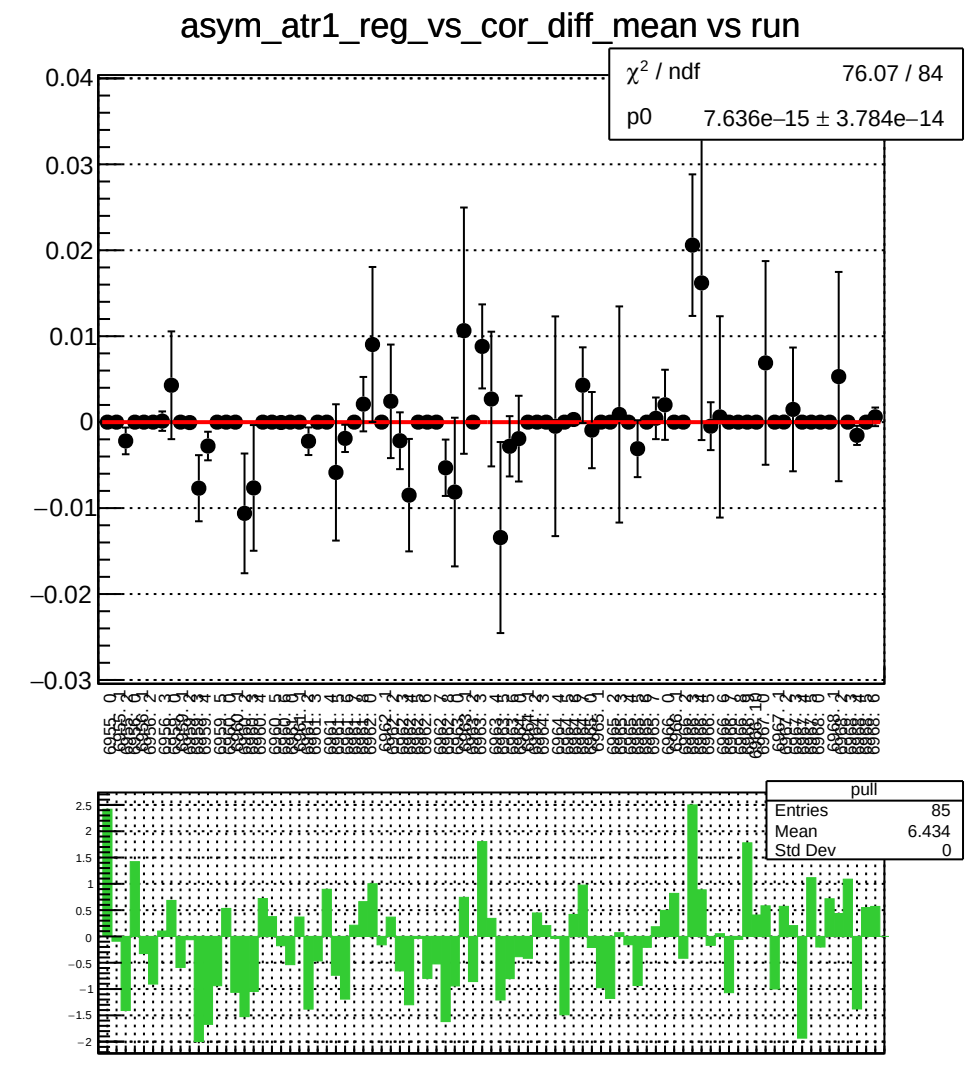

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 99.58 / 84
p0 −439.3 ± 935.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 361.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.004503
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

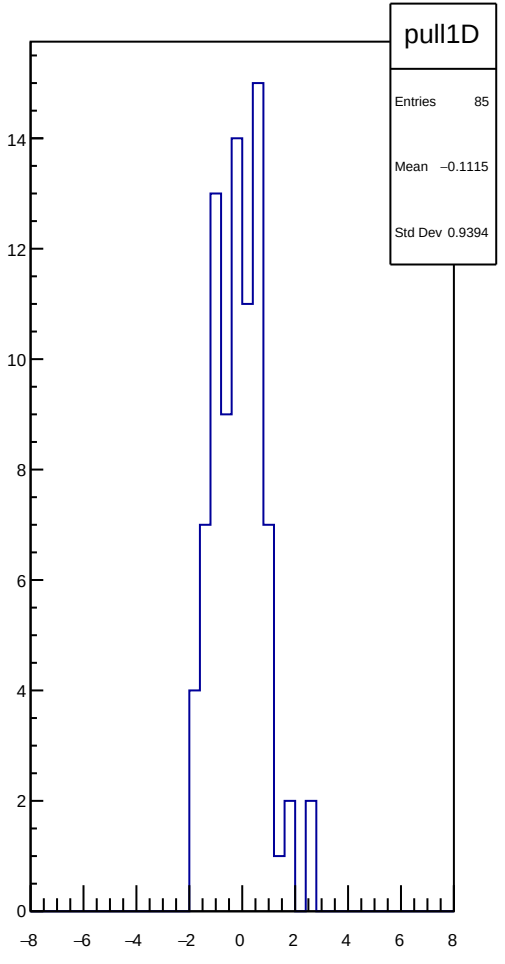

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 3149 / 84
p0 846.7 ± 0.6613
1000
950
900
850
800

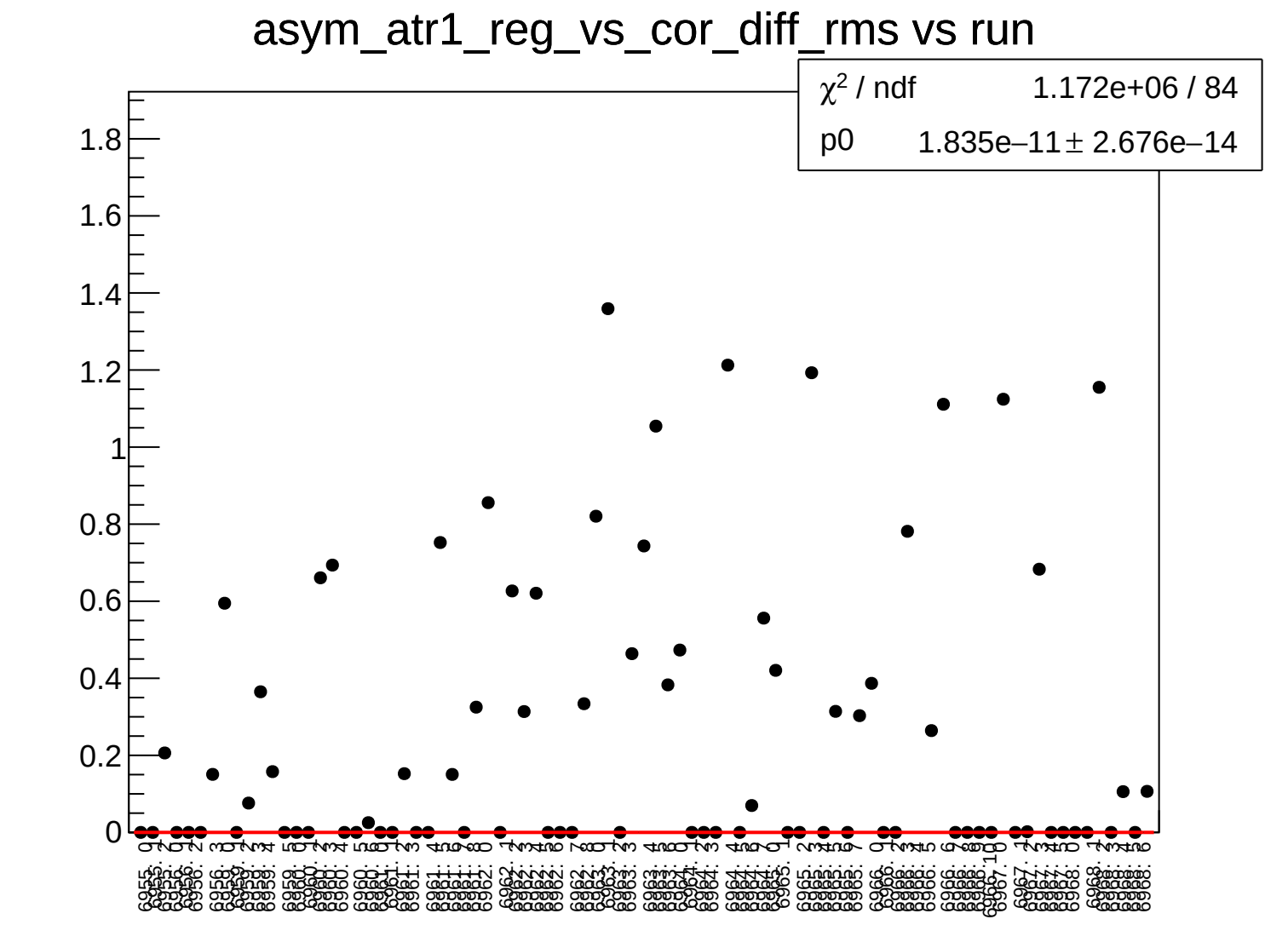

asym_atr1_mean vs run
×10^3
χ² / ndf 86.09 / 84
p0 −1914 ± 3137
100
50
0
−50
−100
pull
Entries 85
Mean 1918
Std Dev 0
2
1
0
−1
−2

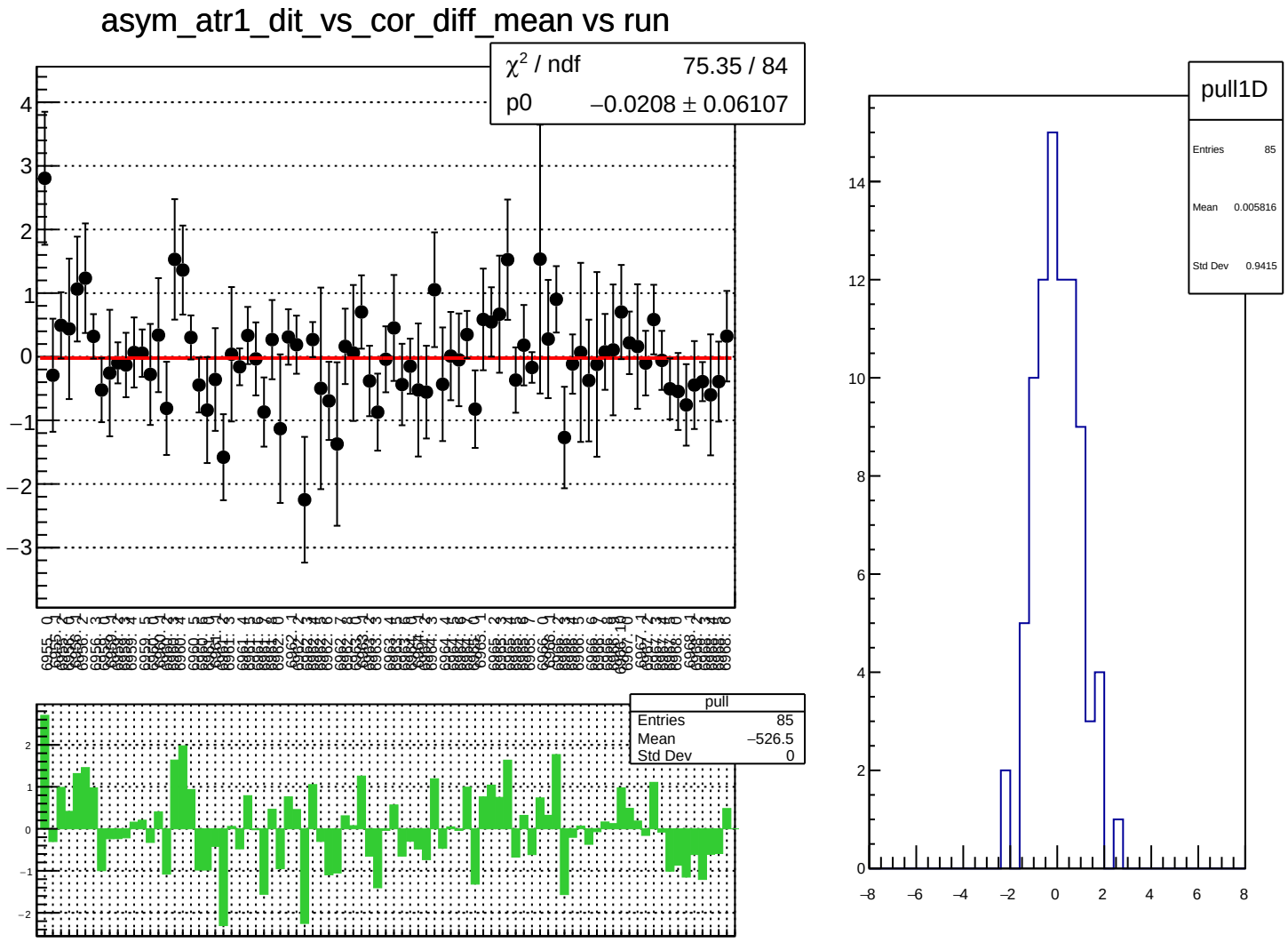

pull1D
Entries 85
Mean −0.001799
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

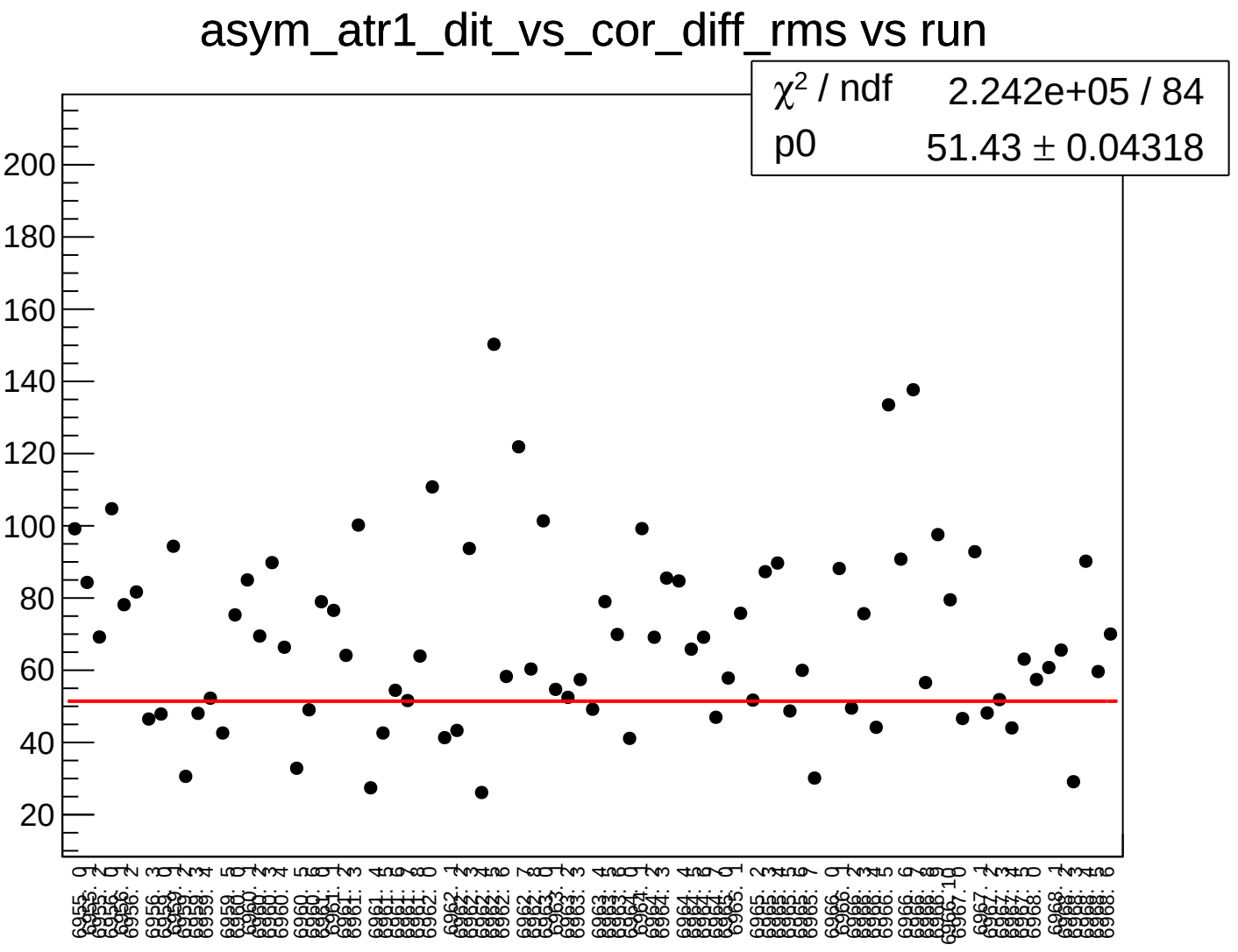

asym_atr1_rms vs run
$\chi^2$ / ndf 143.2 / 84
p0 2843 ± 2.218
2950
2900
2850
2800
2750

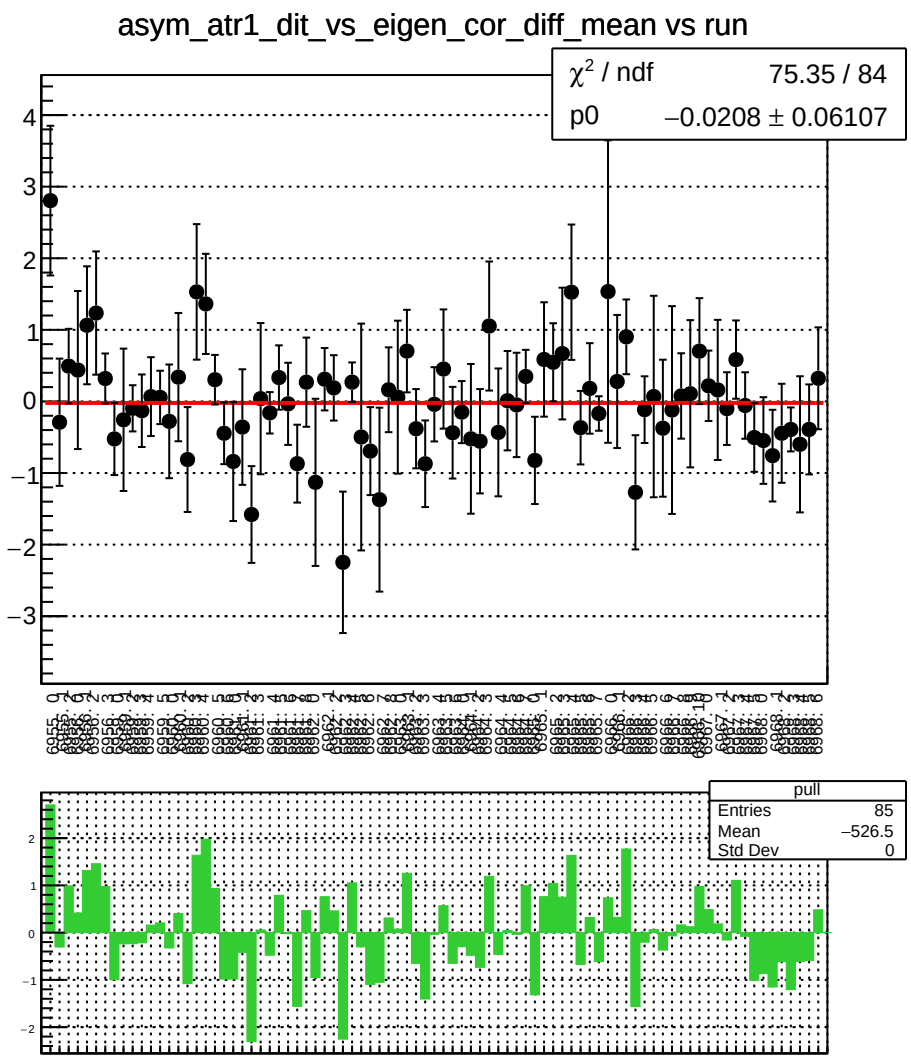

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 76.07 / 84
p0 7.636e−15 ± 3.784e−14
pull
Entries 85
Mean 6.434
Std Dev 0

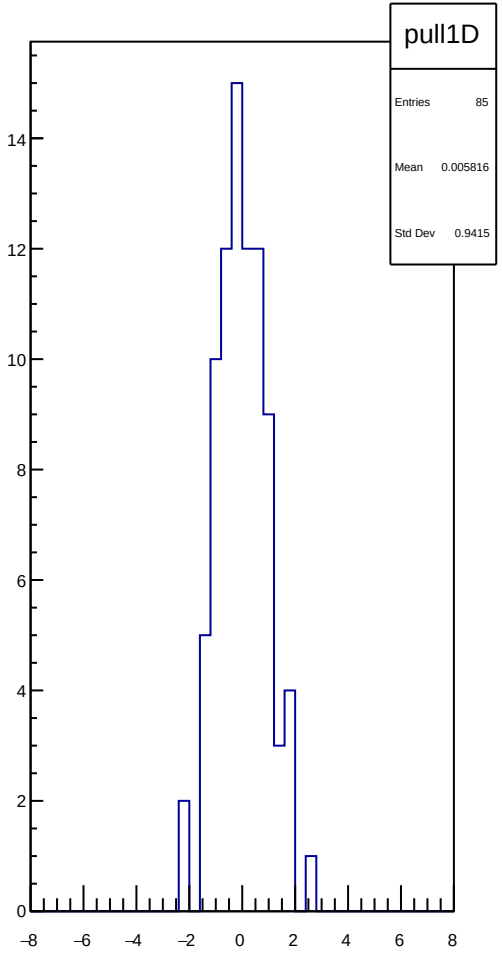

pull1D
Entries 85
Mean −0.1115
Std Dev 0.9394

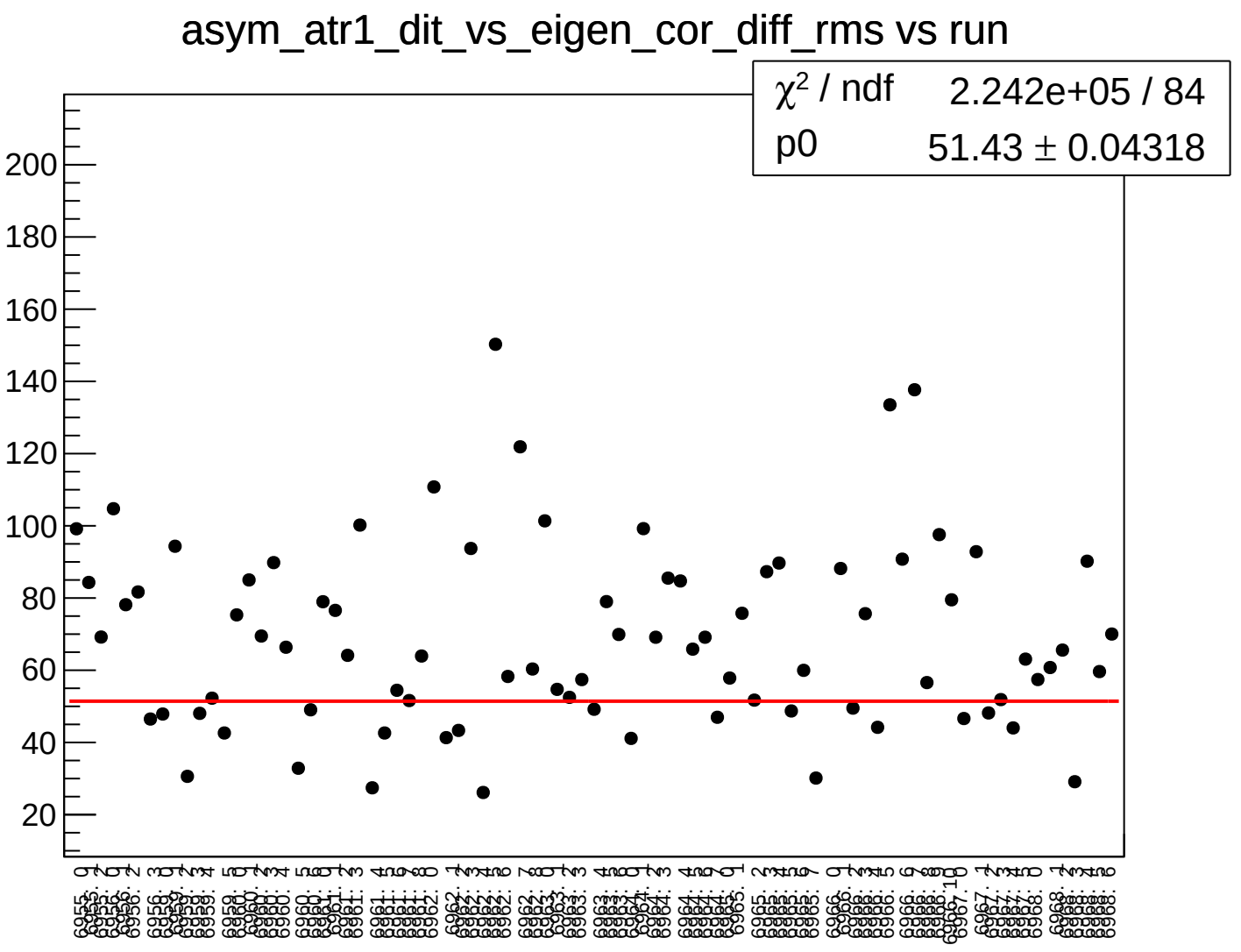

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.172e+06 / 84
p0 1.835e−11 ± 2.676e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

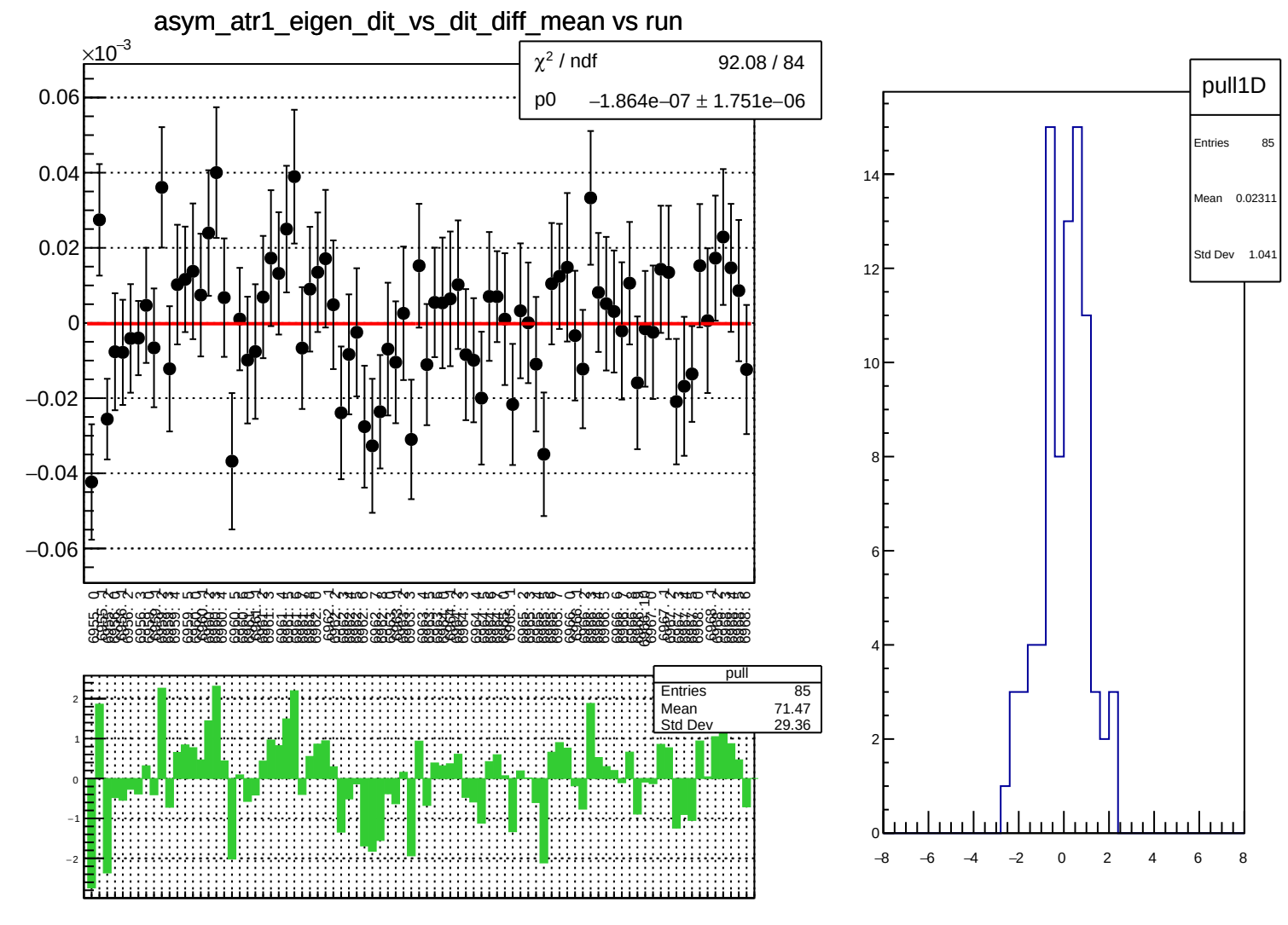

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 75.35 / 84
p0 −0.0208 ± 0.06107
pull
Entries 85
Mean −526.5
Std Dev 0
pull1D
Entries 85
Mean 0.005816
Std Dev 0.9415

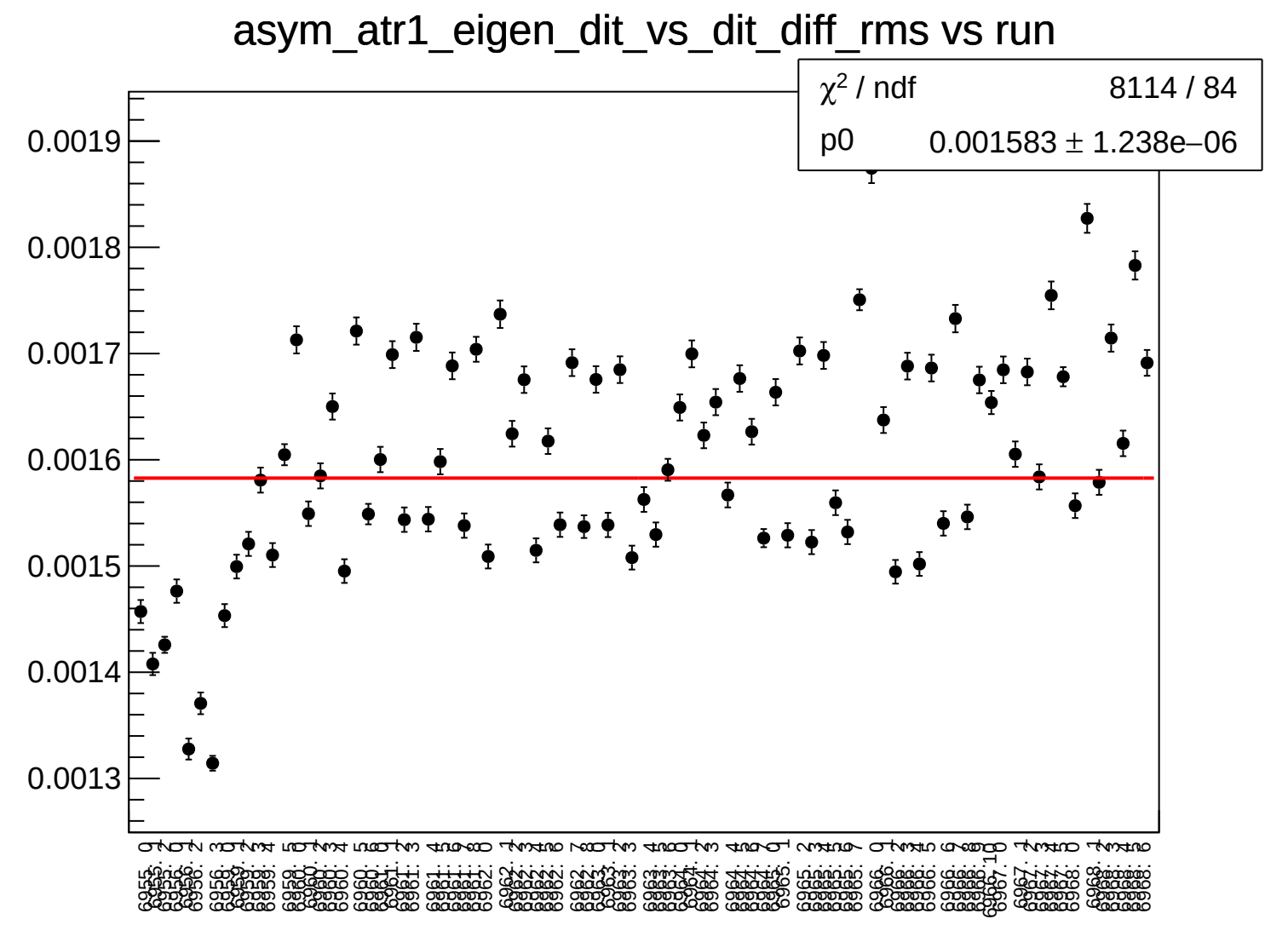

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.242e+05 / 84
p0 51.43 ± 0.04318
200
180
160
140
120
100
80
60
40
20

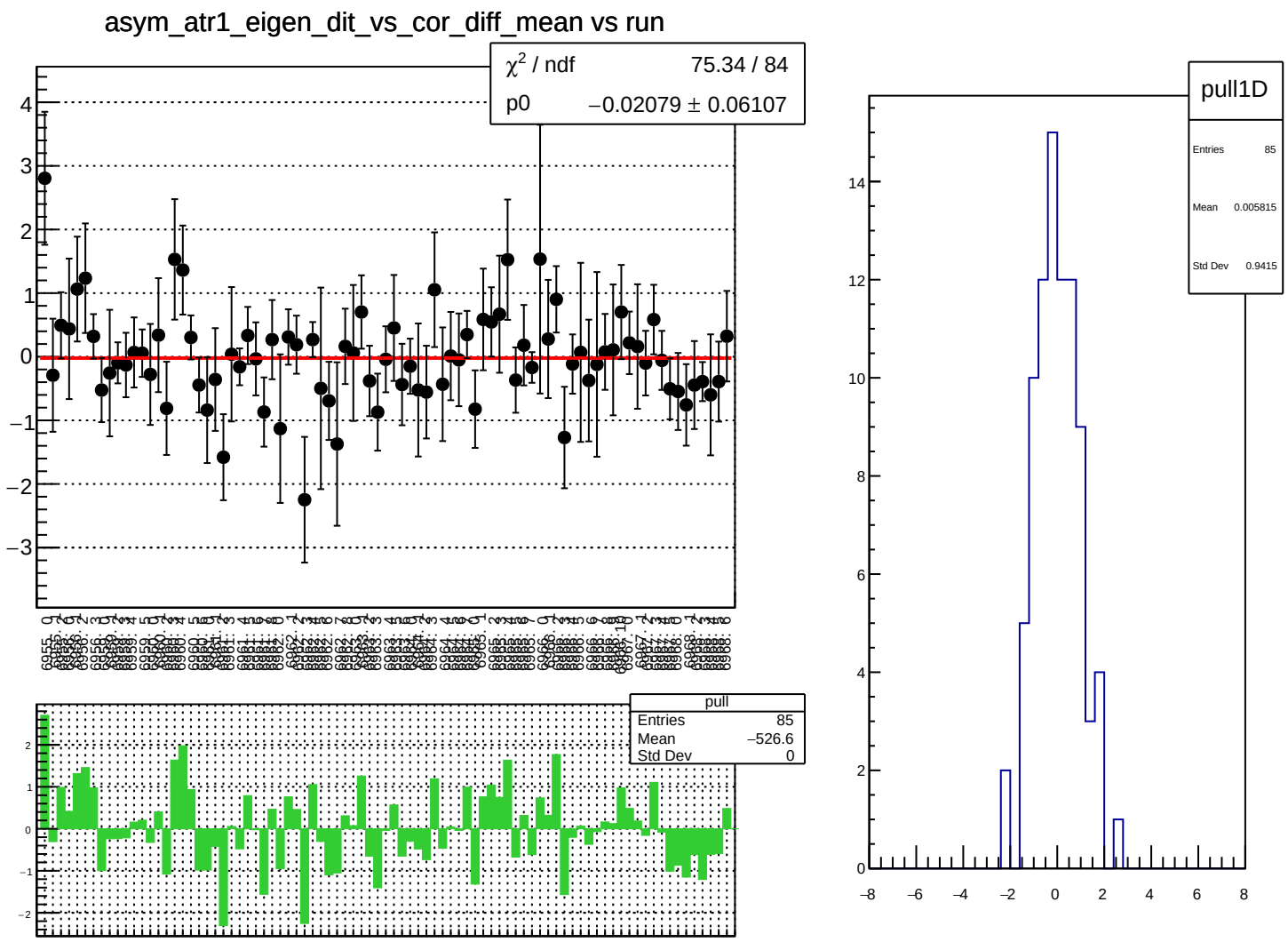

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.35 / 84
p0 −0.0208 ± 0.06107
pull
Entries 85
Mean −526.5
Std Dev 0

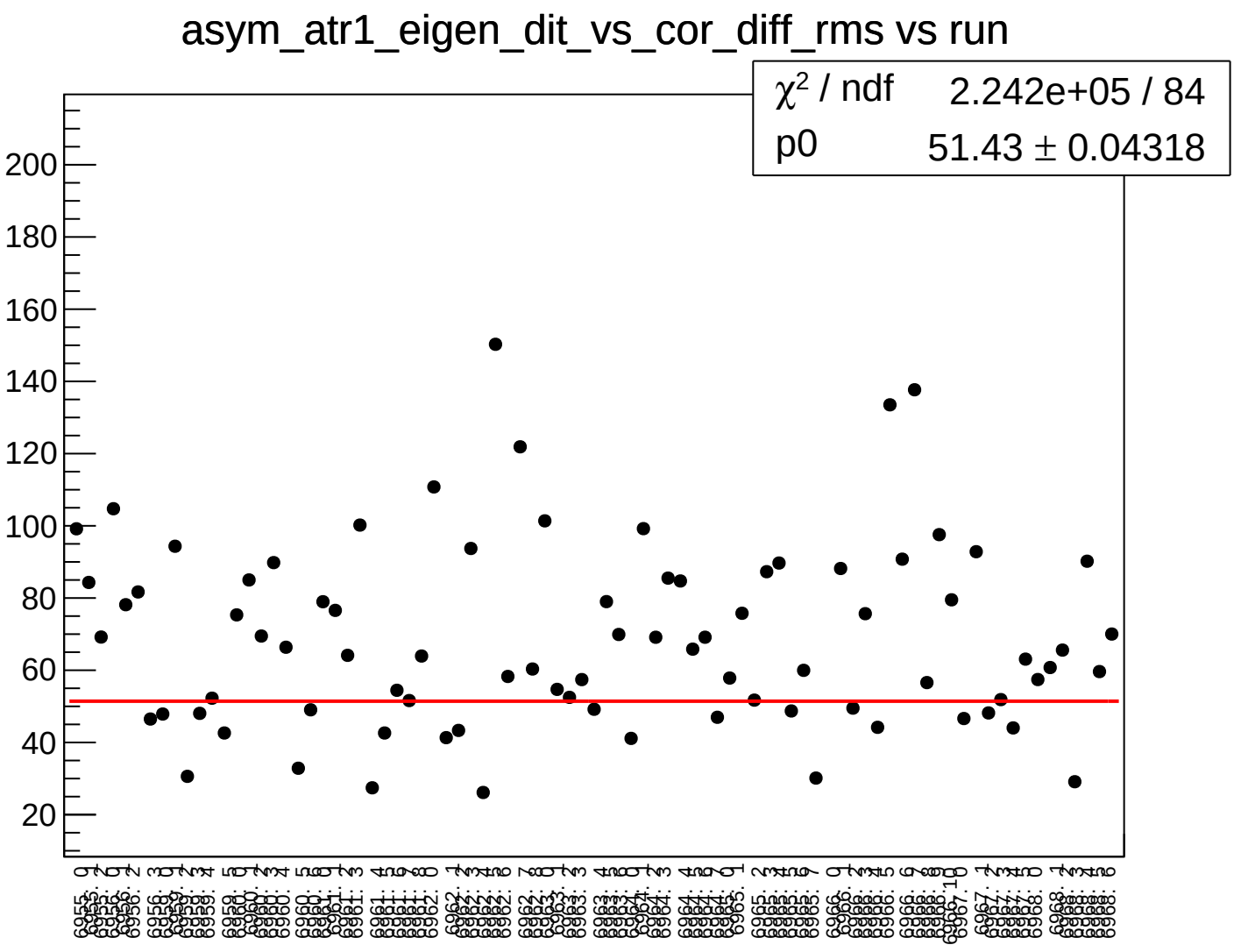

pull1D
Entries 85
Mean 0.005816
Std Dev 0.9415

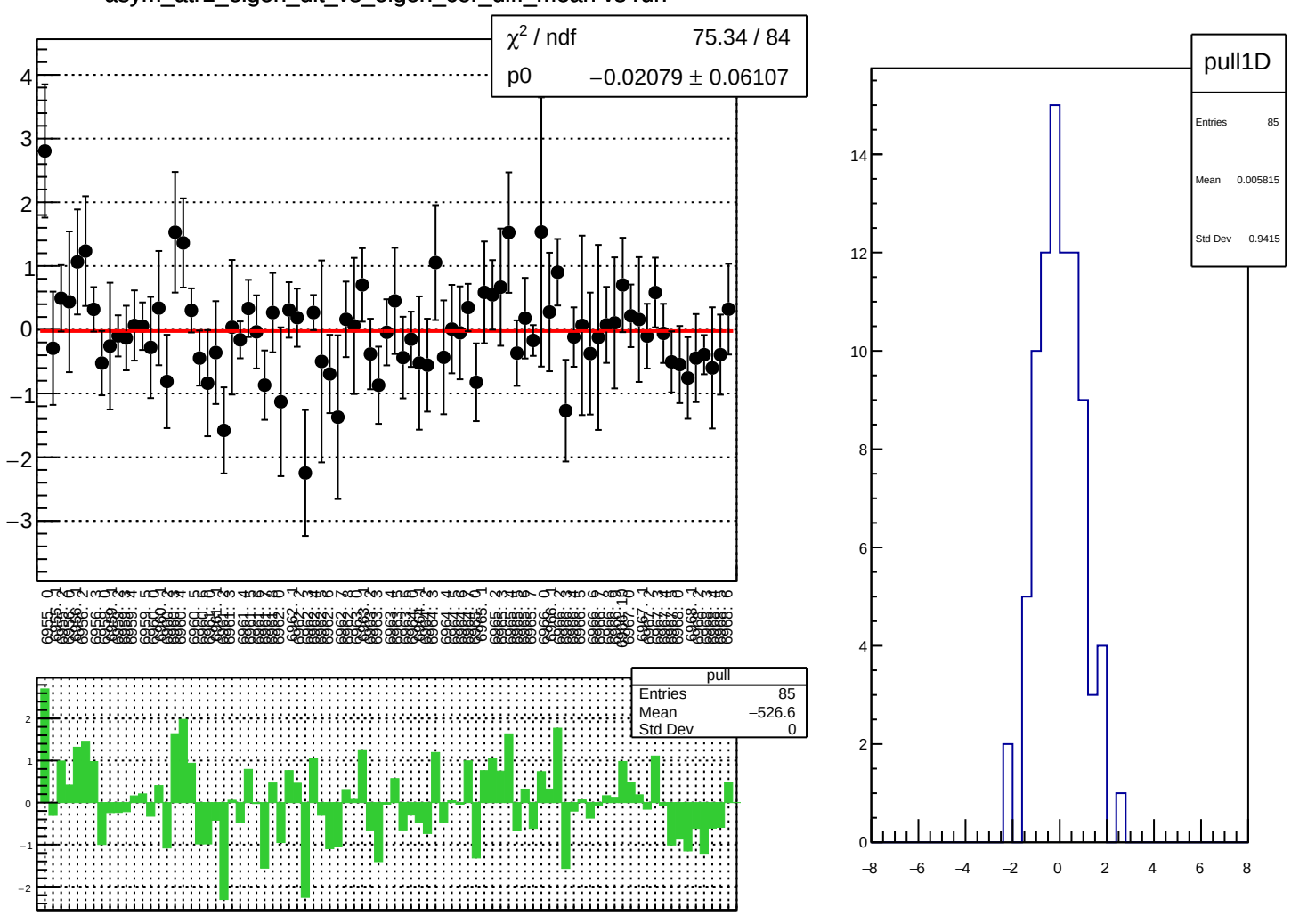

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.242e+05 / 84
p0 51.43 ± 0.04318
200
180
160
140
120
100
80
60
40
20

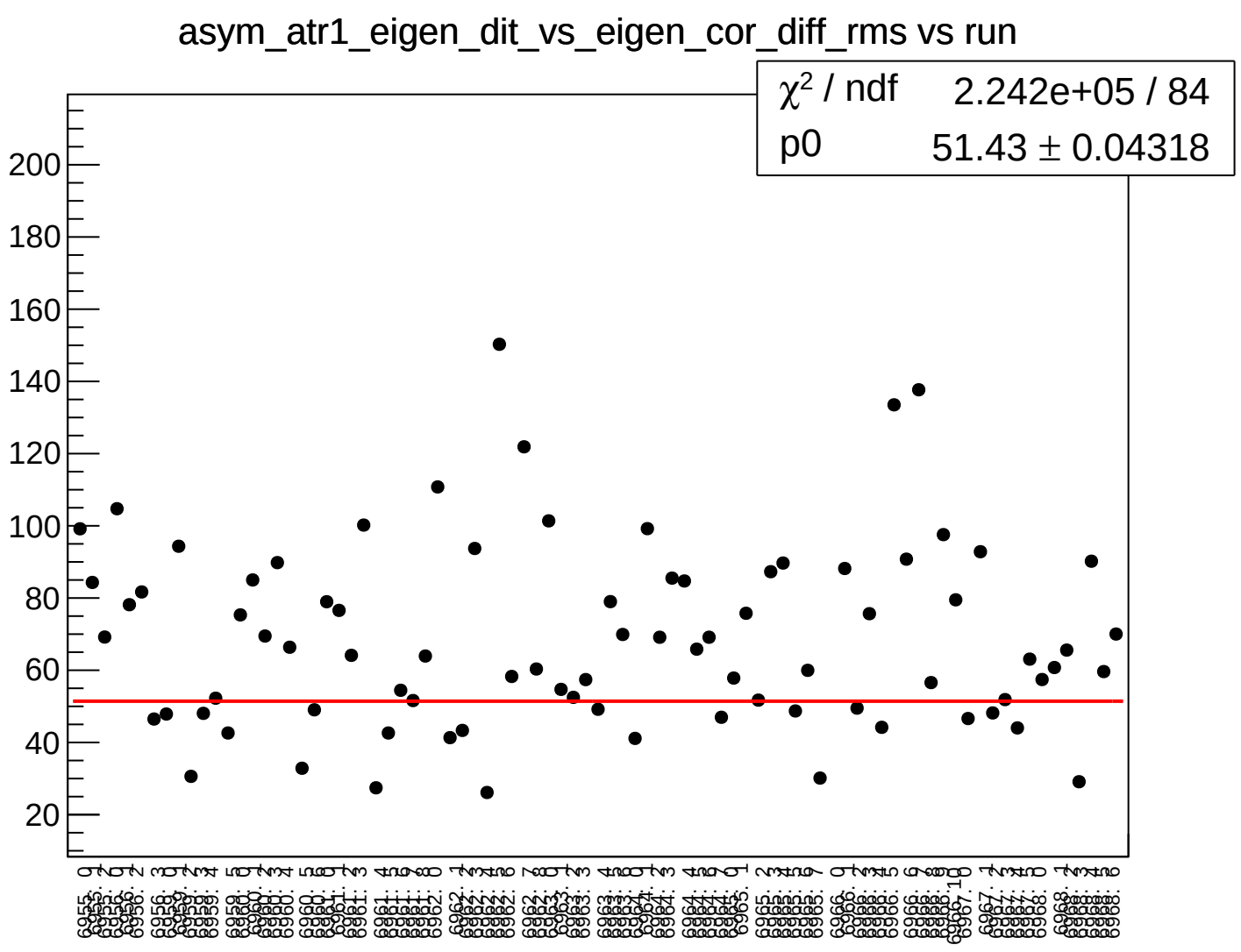

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.08 / 84
p0 −1.864e−07 ± 1.751e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 85
Mean 71.47
Std Dev 29.36
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.02311
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

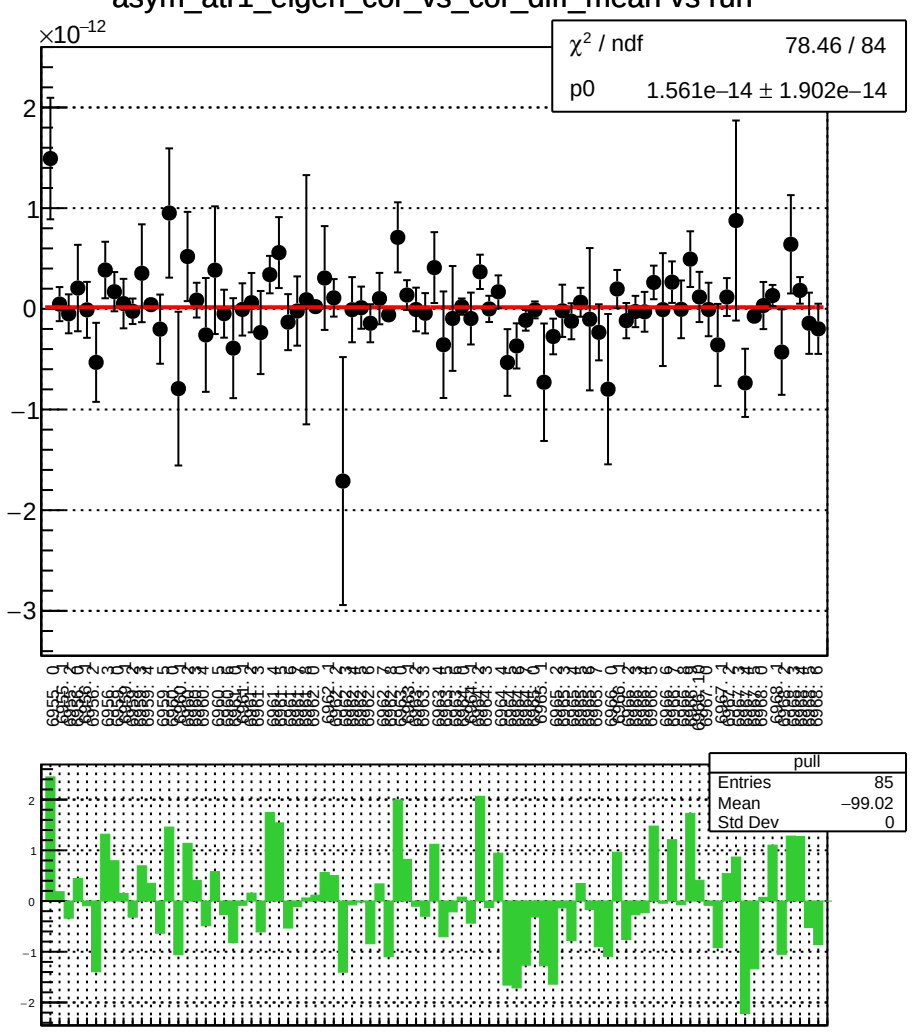

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8114 / 84
p0 0.001583 ± 1.238e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

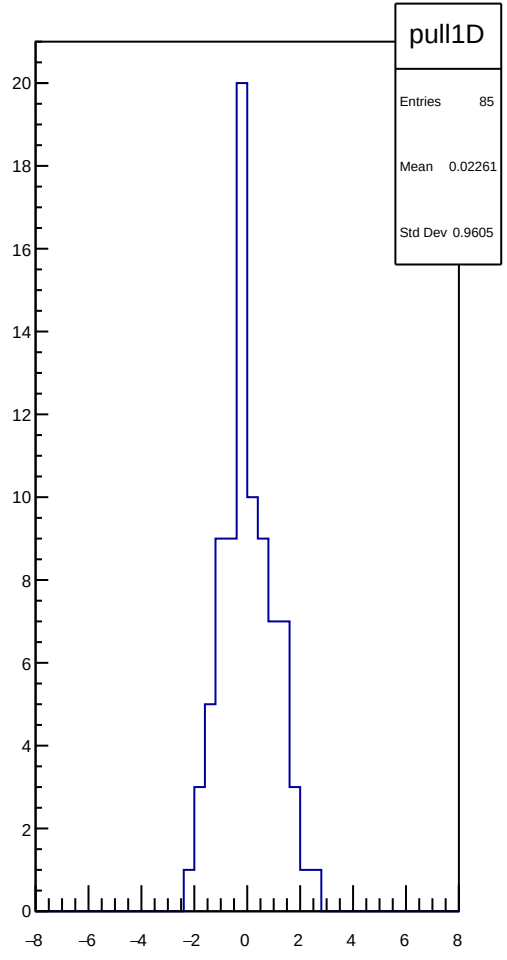

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.34 / 84
p0 −0.02079 ± 0.06107
pull
Entries 85
Mean −526.6
Std Dev 0
pull1D
Entries 85
Mean 0.005815
Std Dev 0.9415

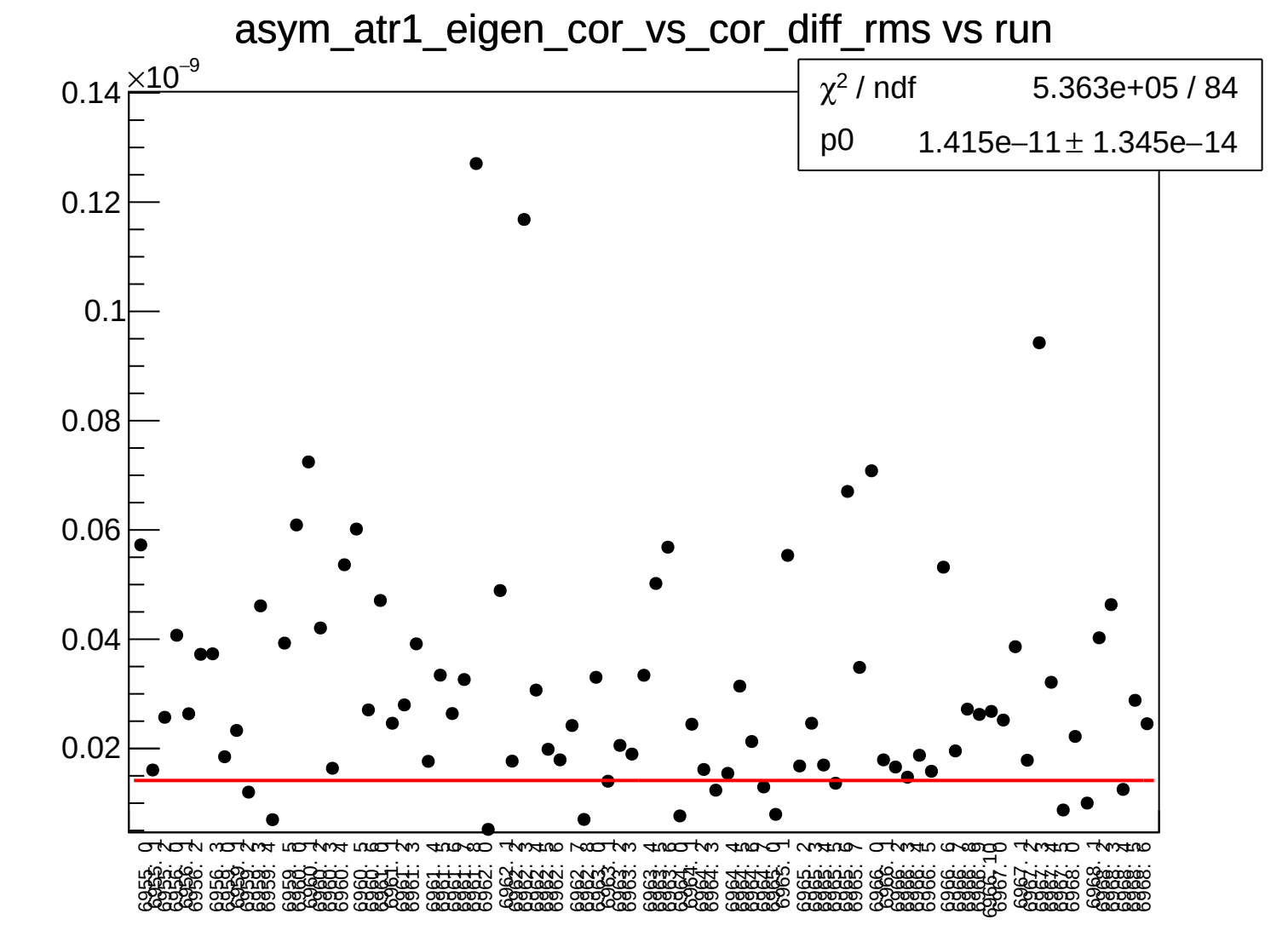

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.242e+05 / 84
p0 51.43 ± 0.04318
200
180
160
140
120
100
80
60
40
20

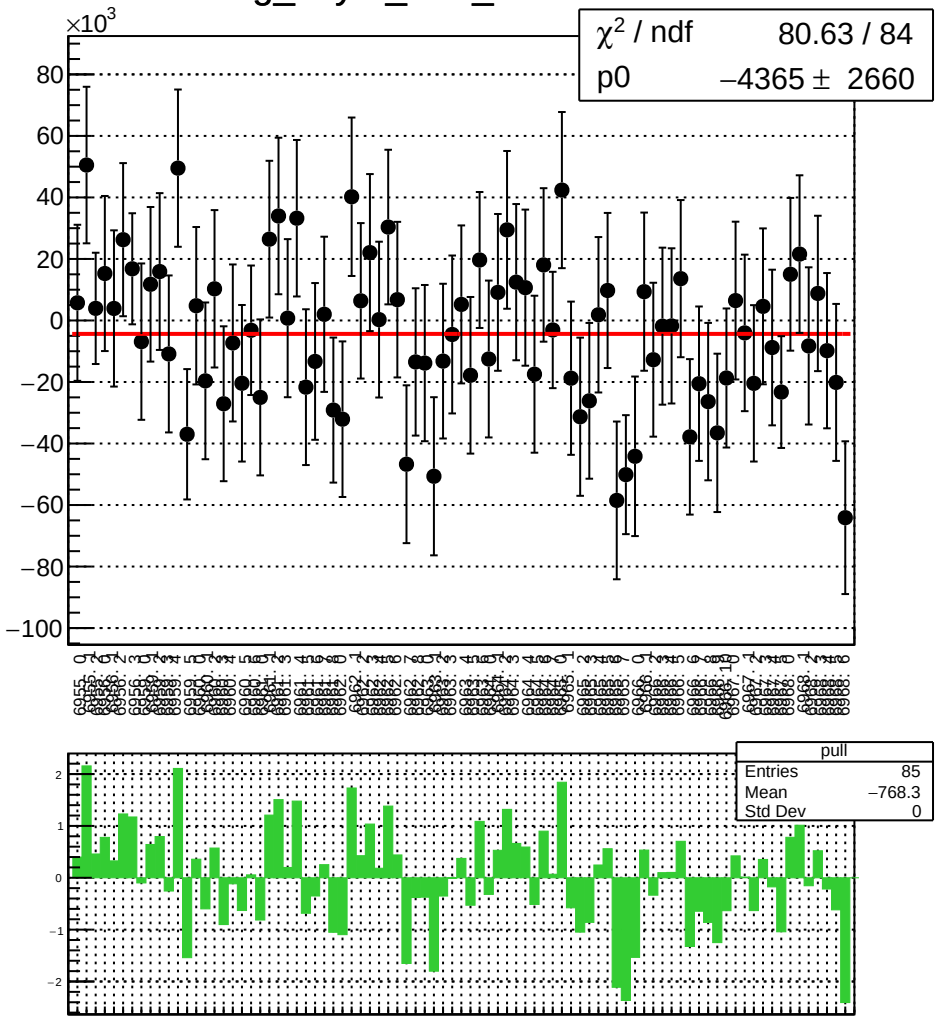

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.34 / 84
p0 −0.02079 ± 0.06107
pull
Entries 85
Mean −526.6
Std Dev 0
pull1D
Entries 85
Mean 0.005815
Std Dev 0.9415

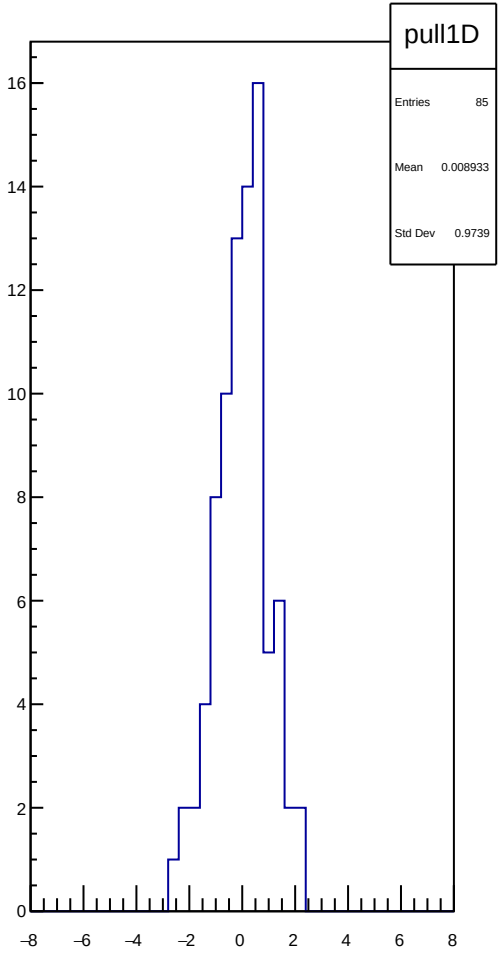

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.242e+05 / 84
p0 51.43 ± 0.04318
200
180
160
140
120
100
80
60
40
20

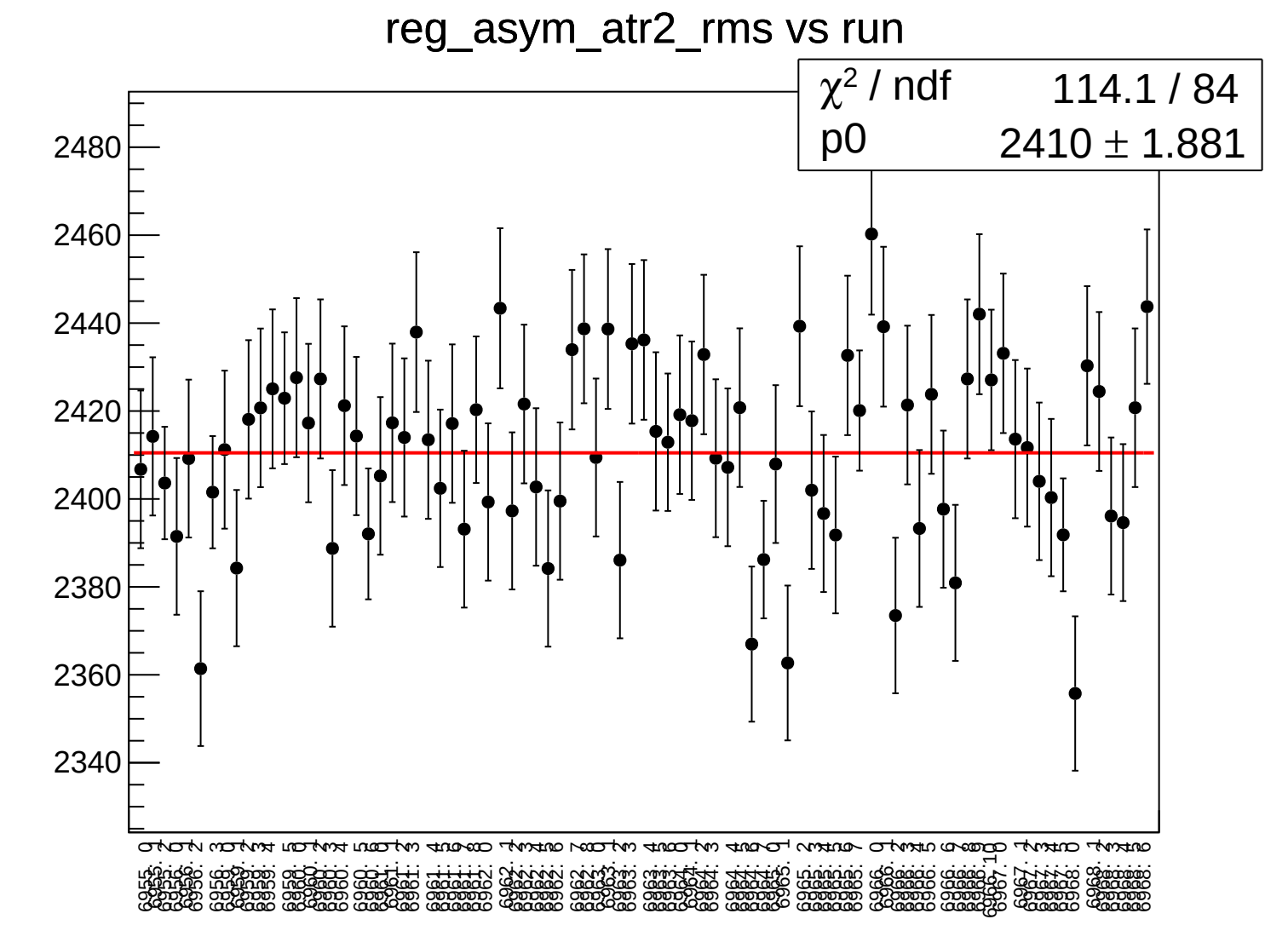

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.46 / 84
p0 1.561e−14 ± 1.902e−14
pull
Entries 85
Mean −99.02
Std Dev 0

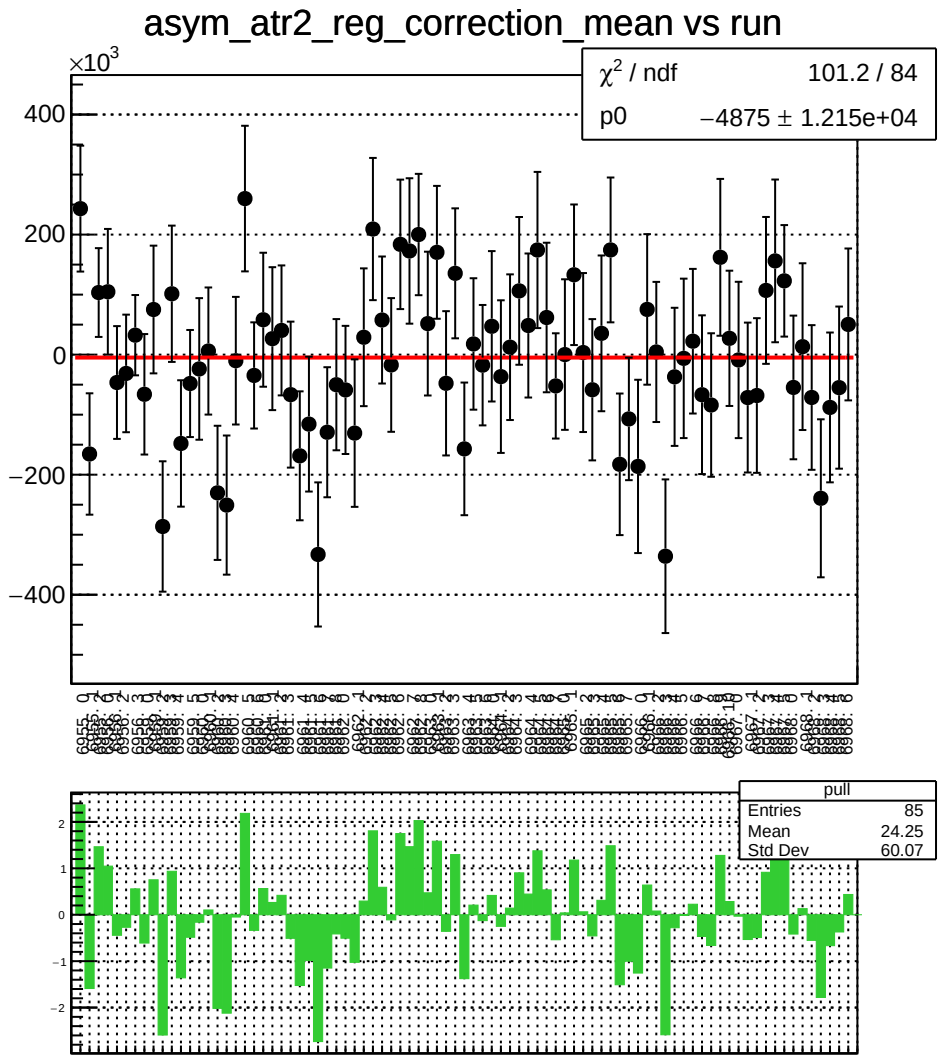

pull1D
Entries 85
Mean 0.02261
Std Dev 0.9605

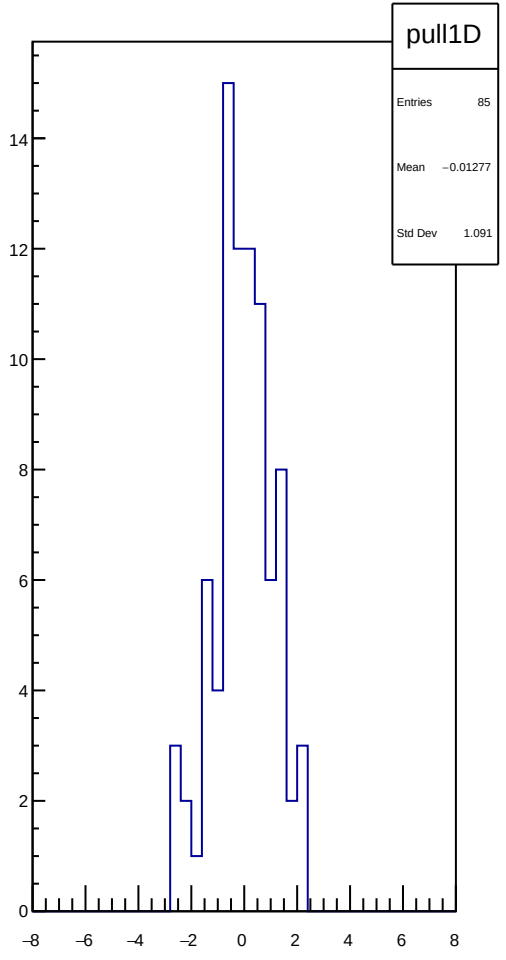

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.363e+05 / 84
p0 1.415e−11 ± 1.345e−14
×10⁻⁹
0.14
0.12
0.1
0.08
0.06
0.04
0.02

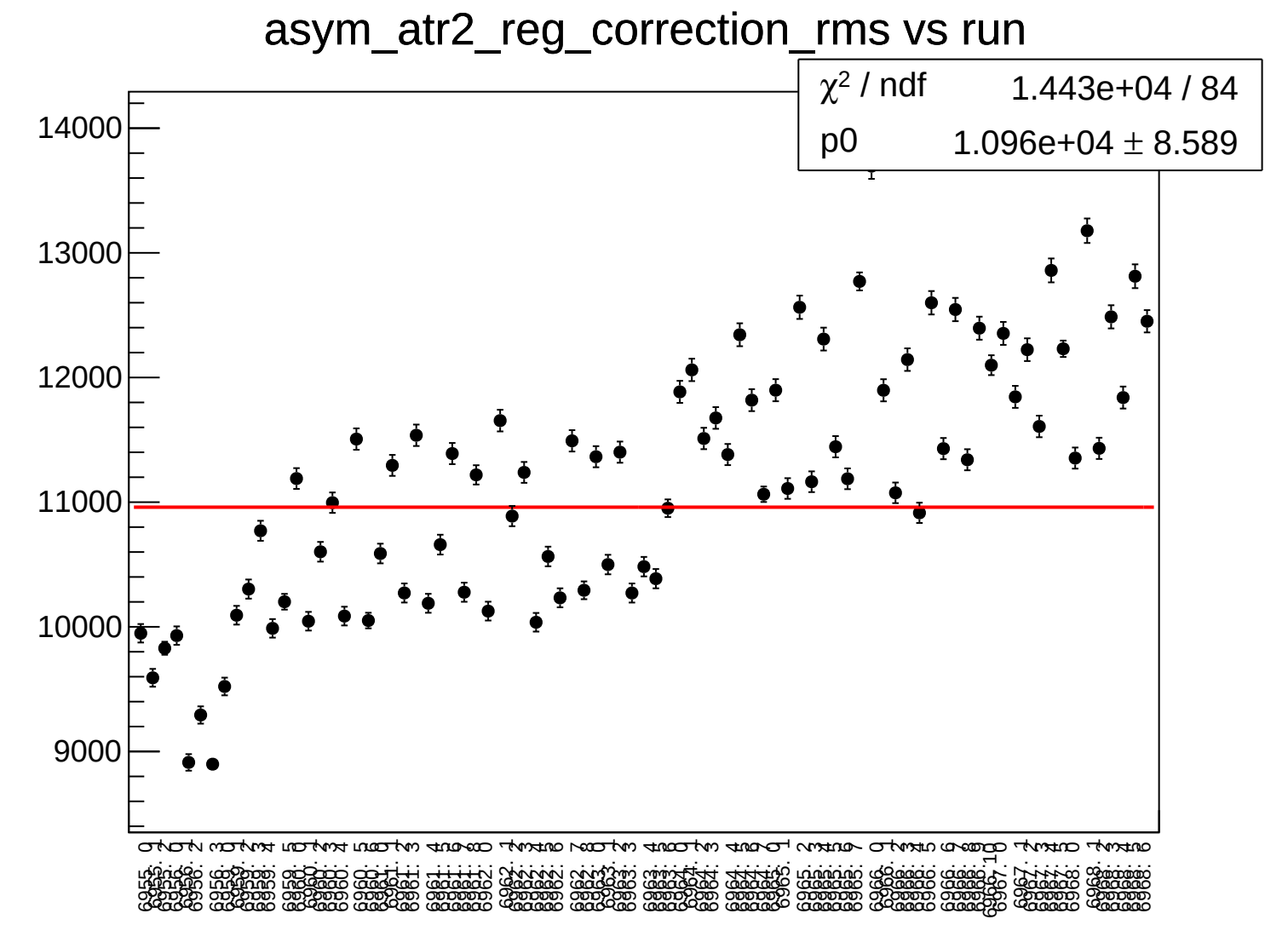

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 80.63 / 84
p0 −4365 ± 2660
pull
Entries 85
Mean −768.3
Std Dev 0

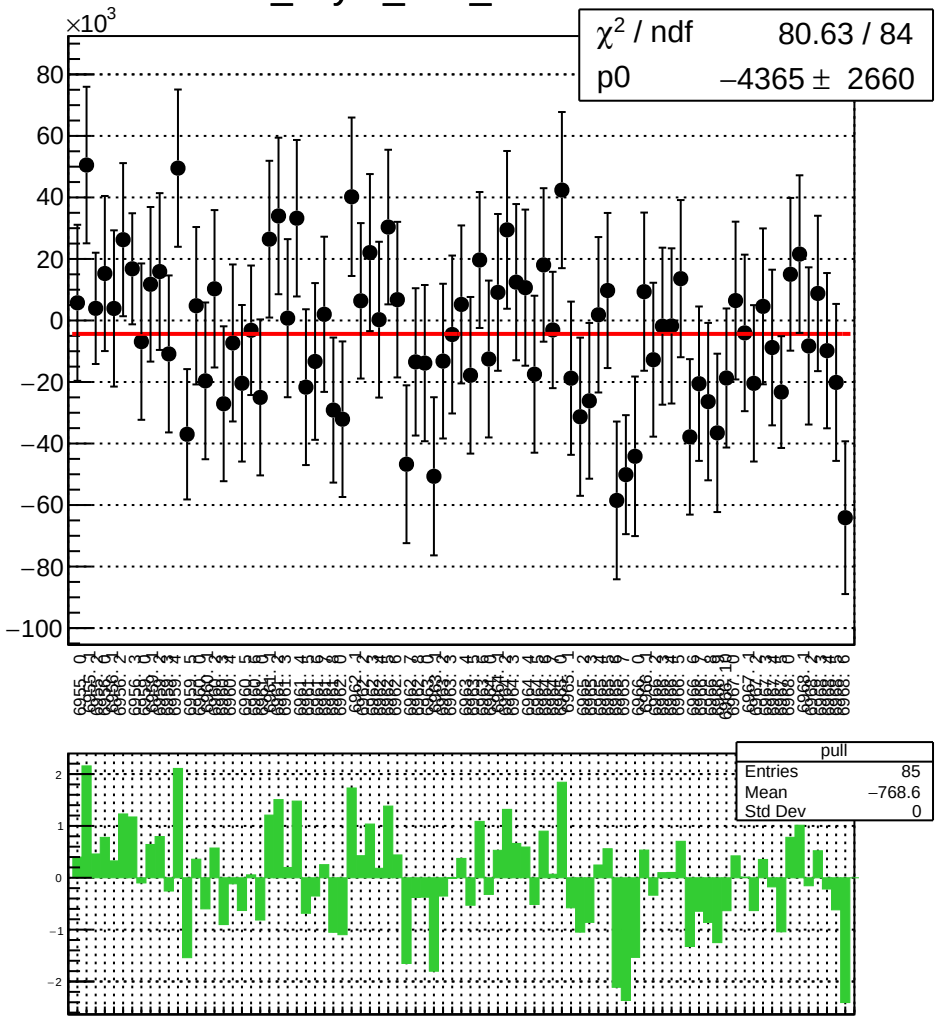

pull1D
Entries 85
Mean 0.008933
Std Dev 0.9739

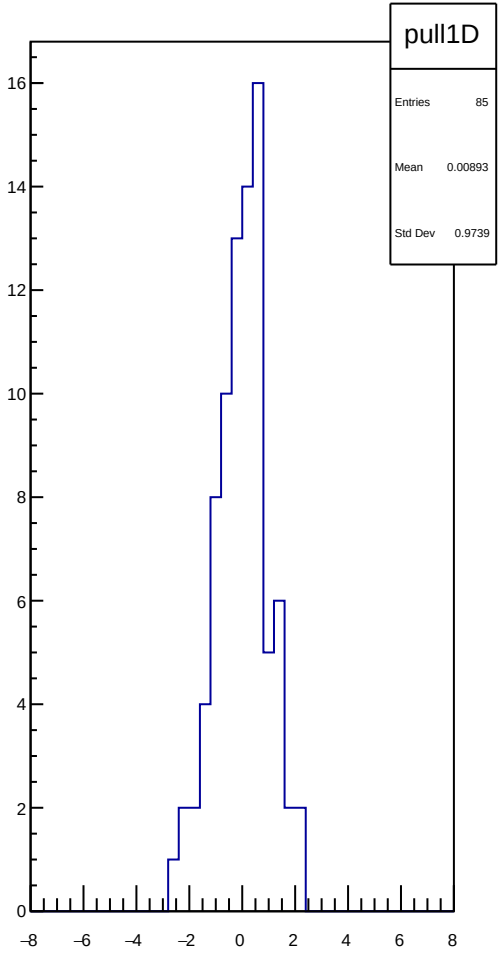

reg_asym_atr2_rms vs run
χ² / ndf 114.1 / 84
p0 2410 ± 1.881
2480
2460
2440
2420
2400
2380
2360
2340

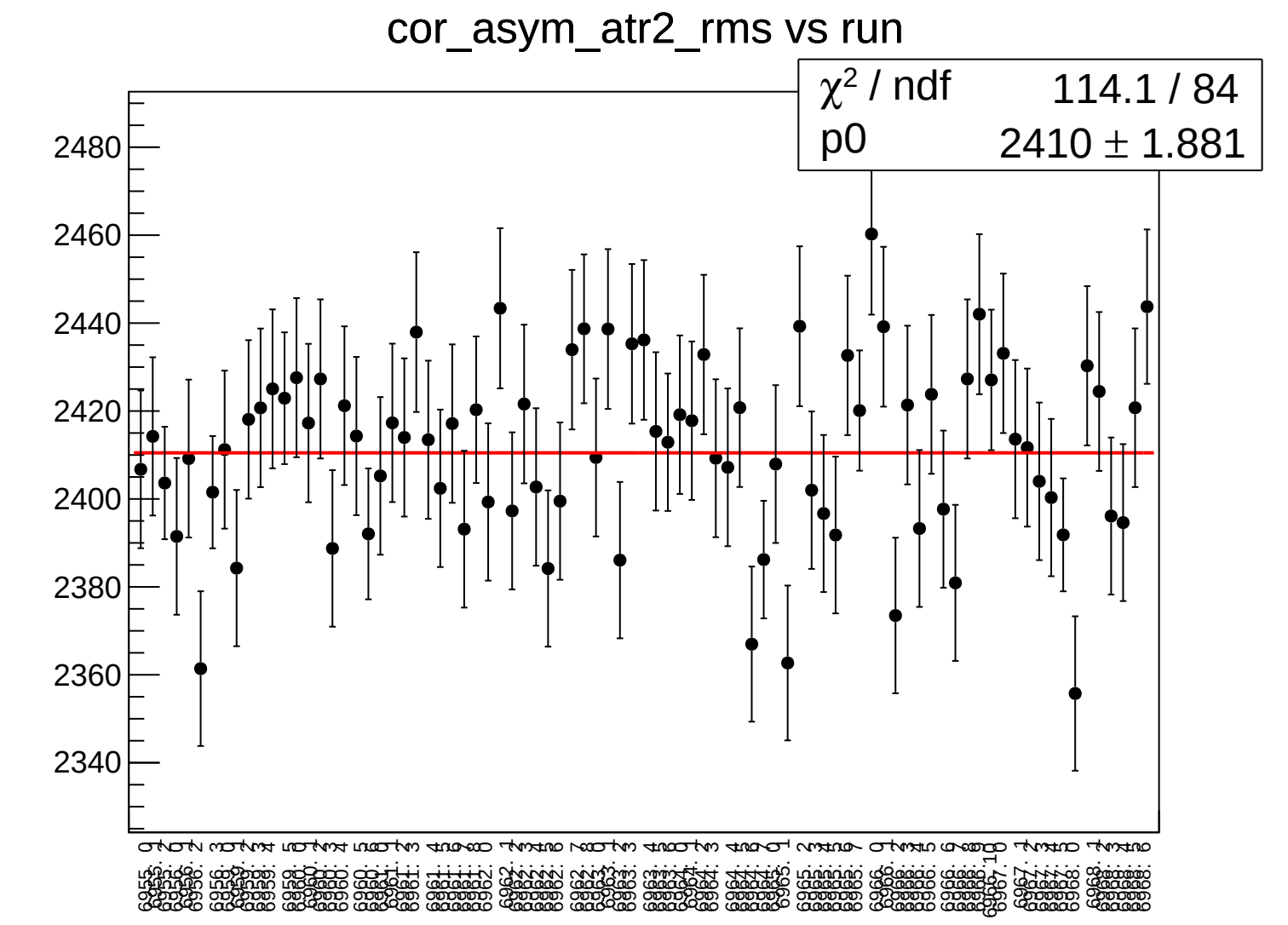

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 101.2 / 84
p0 −4875 ± 1.215e+04
400
200
0
−200
−400
pull
Entries 85
Mean 24.25
Std Dev 60.07
2
1
0
−1
−2

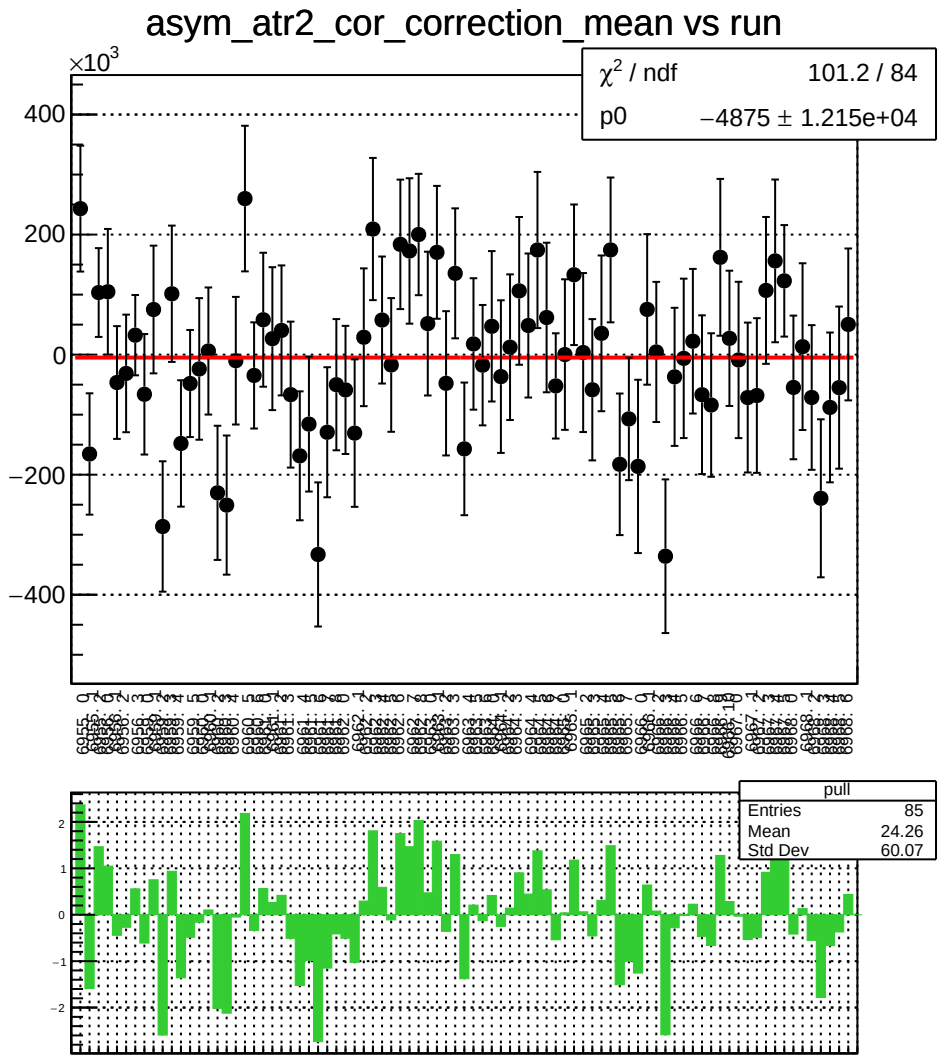

pull1D
Entries 85
Mean −0.01277
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

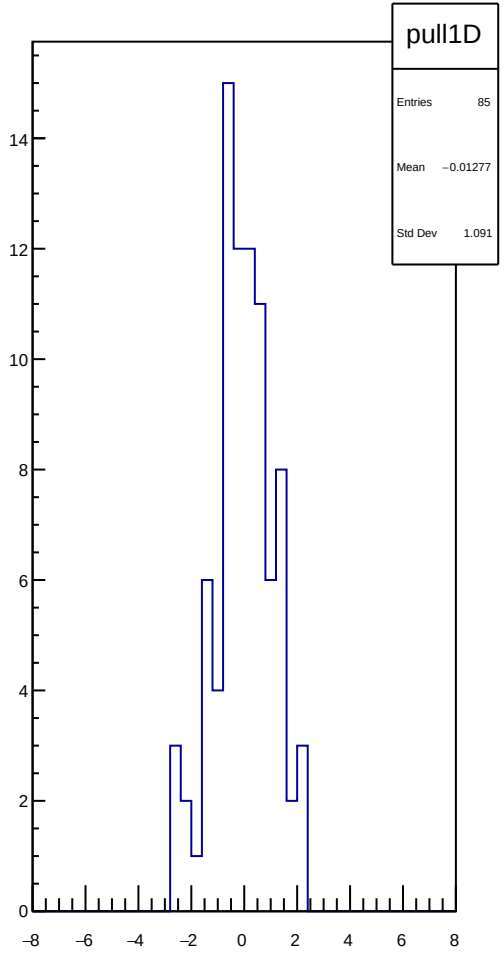

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.443e+04 / 84
p0 1.096e+04 ± 8.589
14000
13000
12000
11000
10000
9000

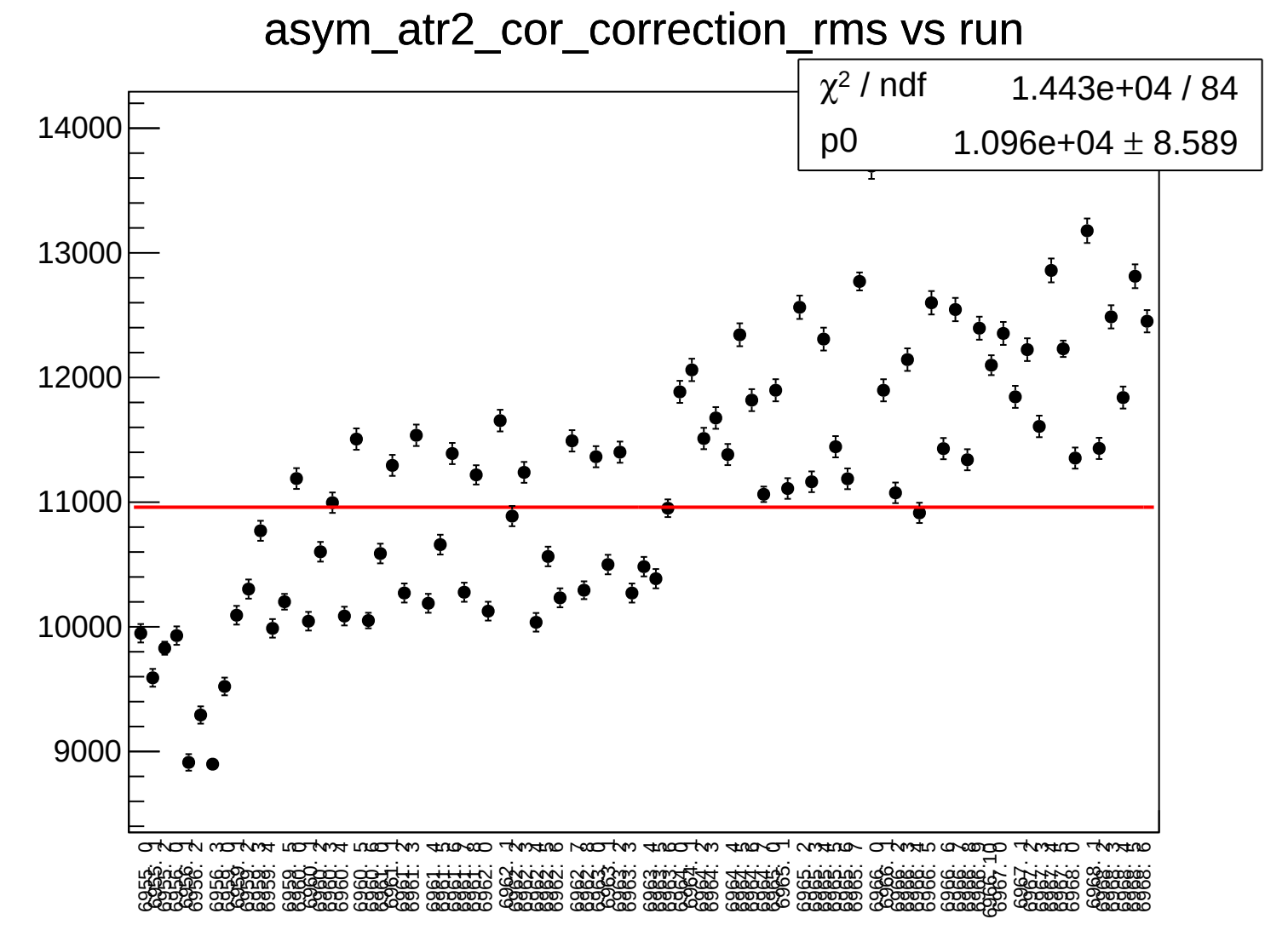

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 80.63 / 84
p0 −4365 ± 2660
pull
Entries 85
Mean −768.6
Std Dev 0

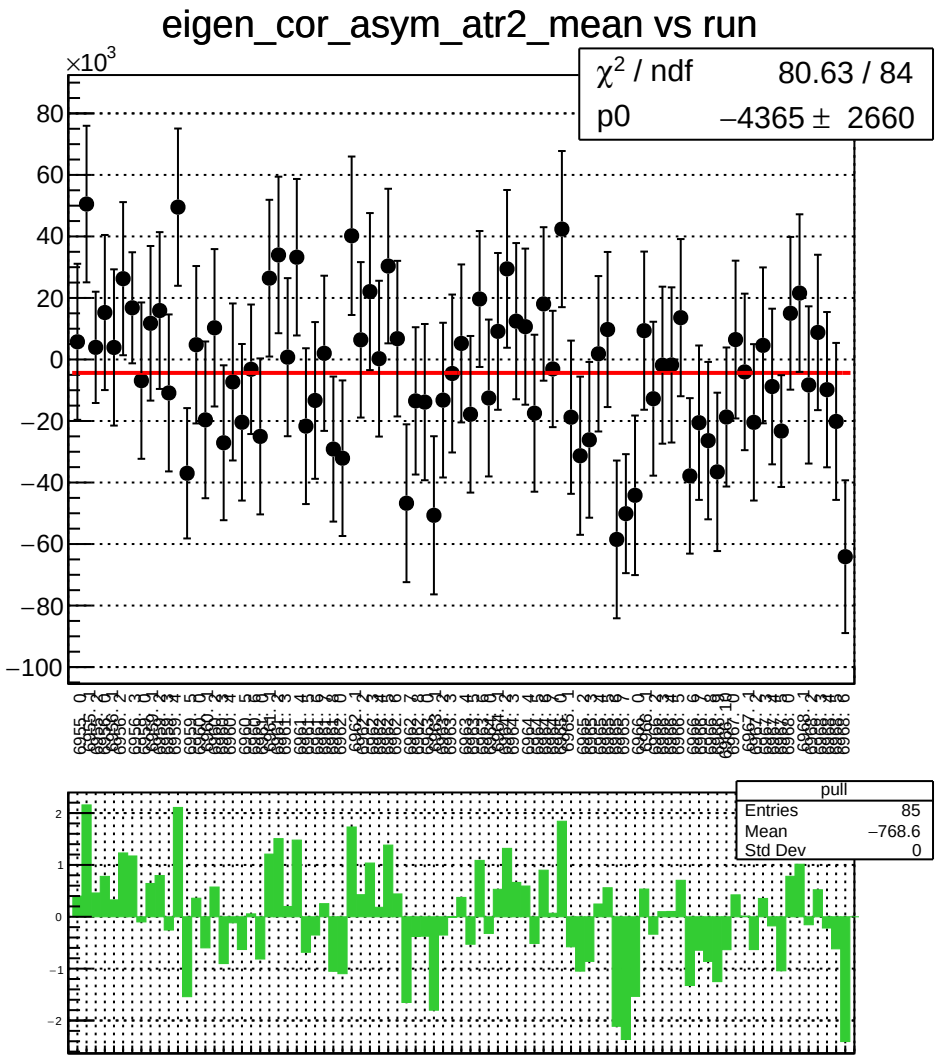

pull1D
Entries 85
Mean 0.00893
Std Dev 0.9739

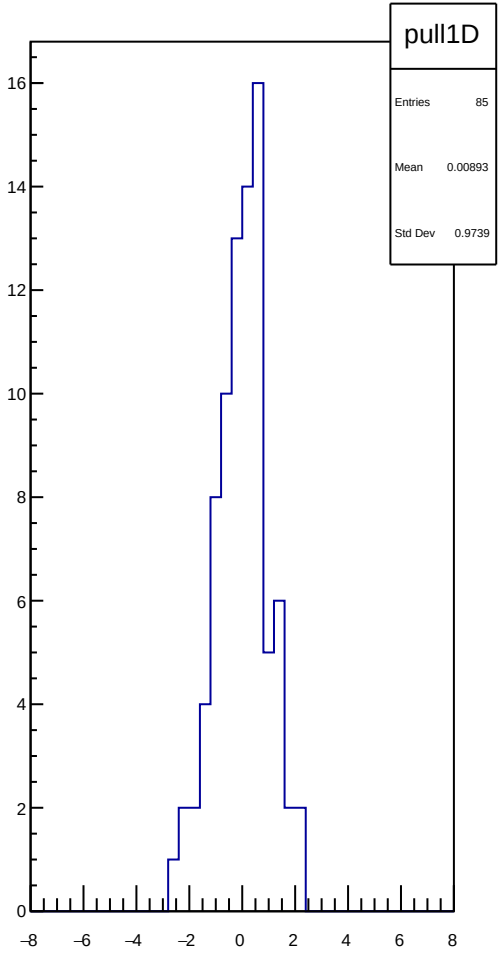

cor_asym_atr2_rms vs run
χ² / ndf 114.1 / 84
p0 2410 ± 1.881
2480
2460
2440
2420
2400
2380
2360
2340

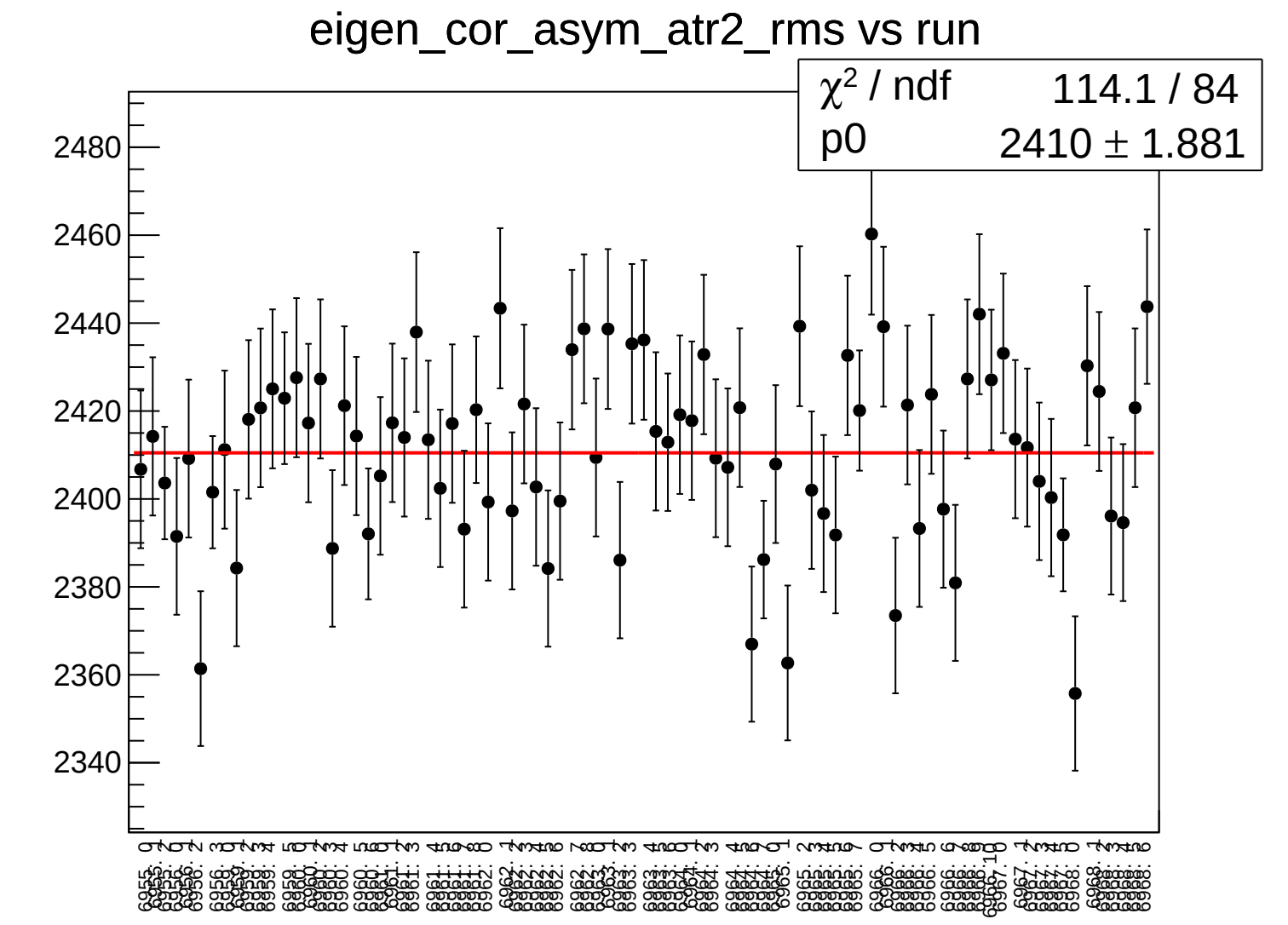

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 101.2 / 84
p0 −4875 ± 1.215e+04
400
200
0
−200
−400
pull
Entries 85
Mean 24.26
Std Dev 60.07
2
1
0
−1
−2

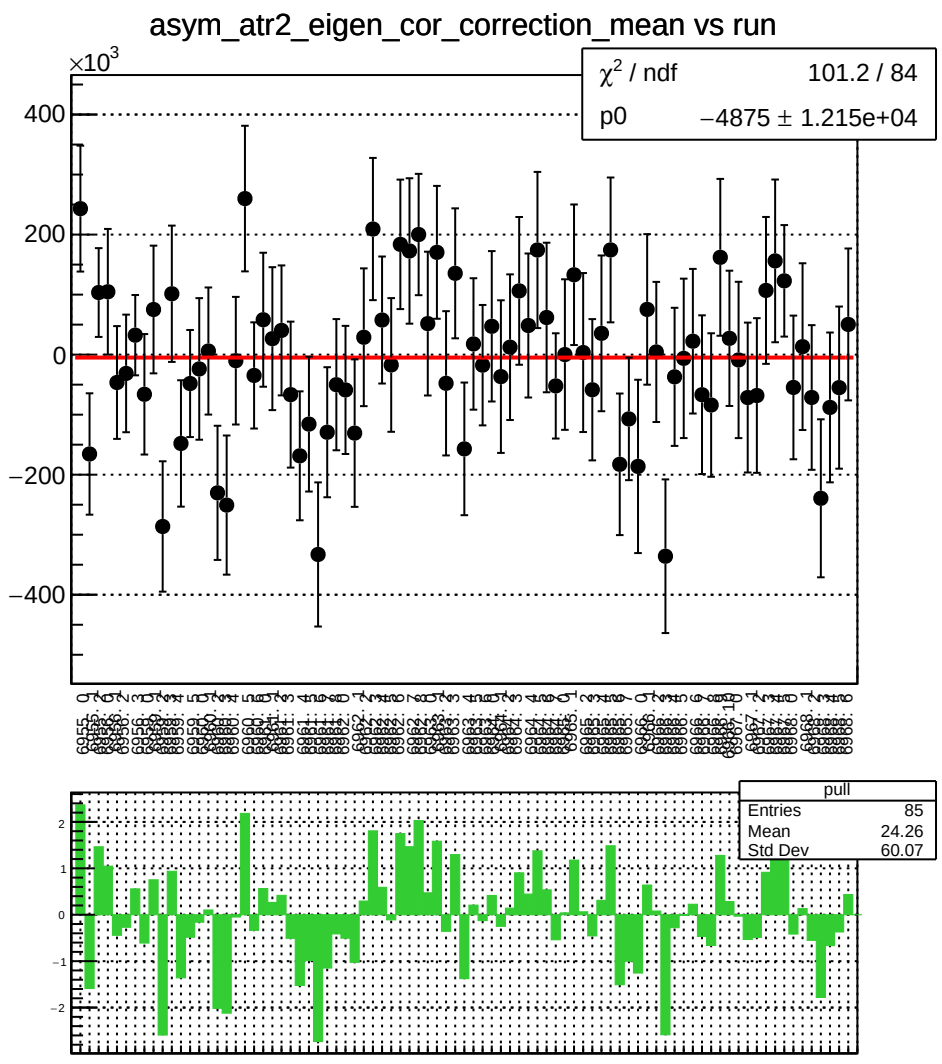

pull1D
Entries 85
Mean −0.01277
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

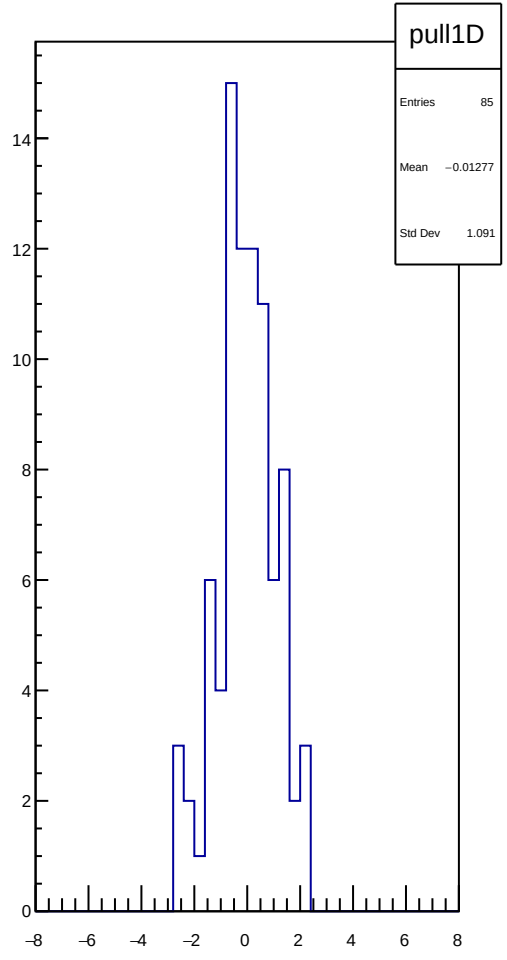

asym_atr2_cor_correction_rms vs run
χ² / ndf 1.443e+04 / 84
p0 1.096e+04 ± 8.589
14000
13000
12000
11000
10000
9000

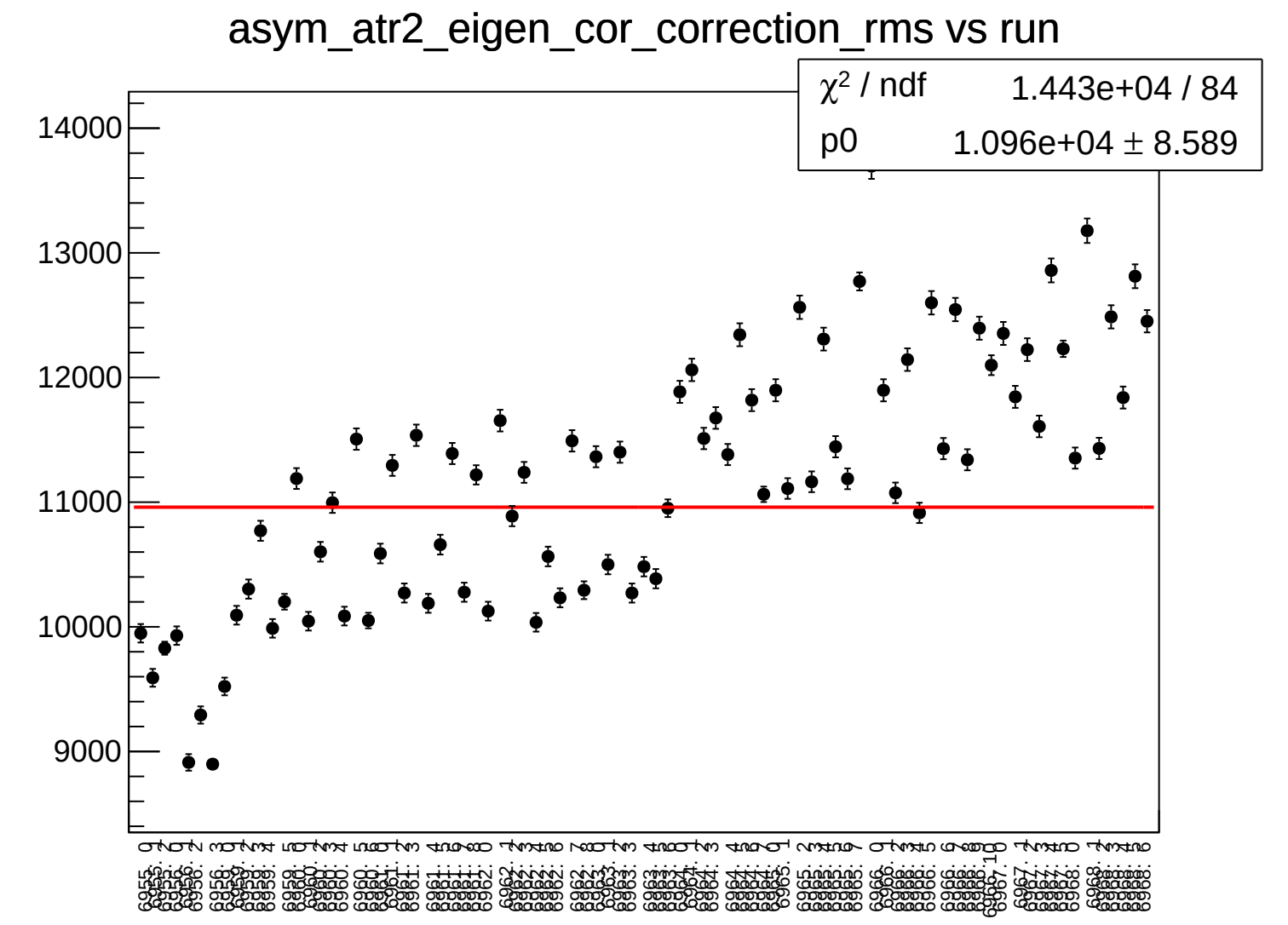

eigen_cor_asym_atr2_mean vs run
χ² / ndf 80.63 / 84
p0 −4365 ± 2660
×10³
pull
Entries 85
Mean −768.6
Std Dev 0

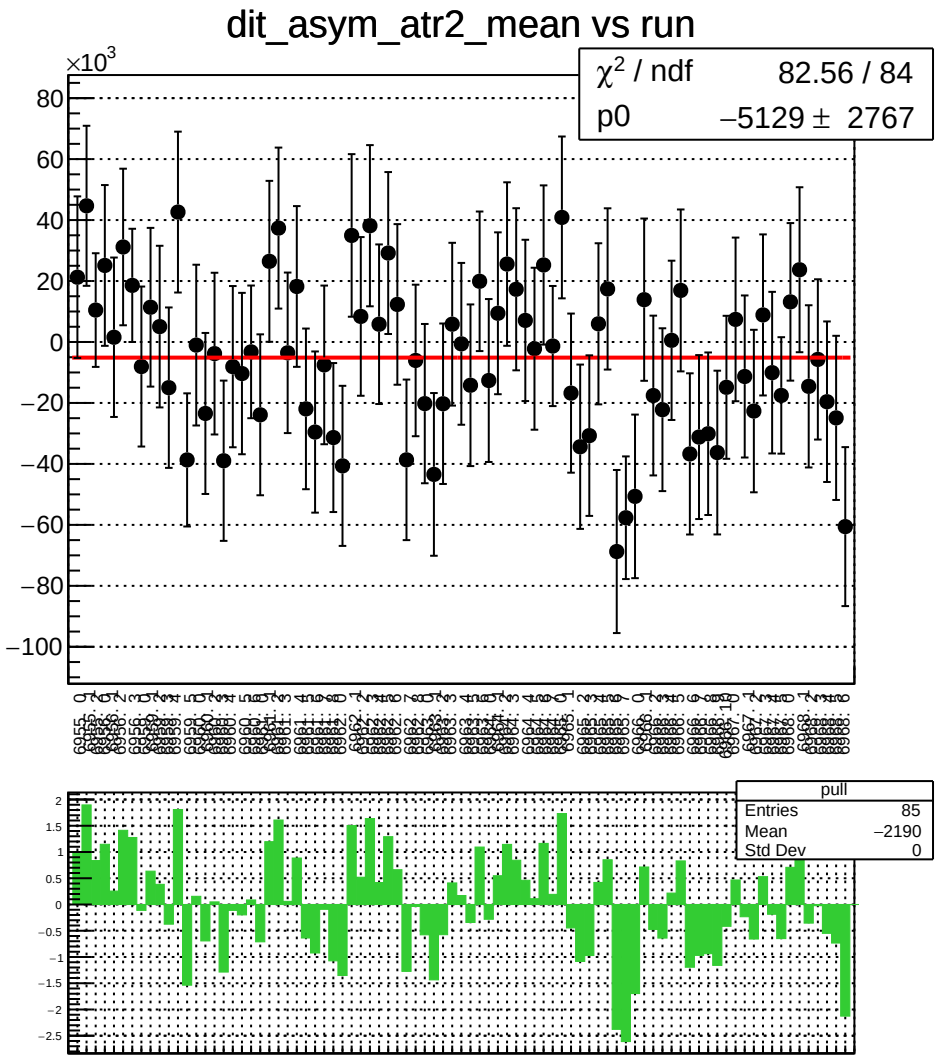

pull1D
Entries 85
Mean 0.00893
Std Dev 0.9739

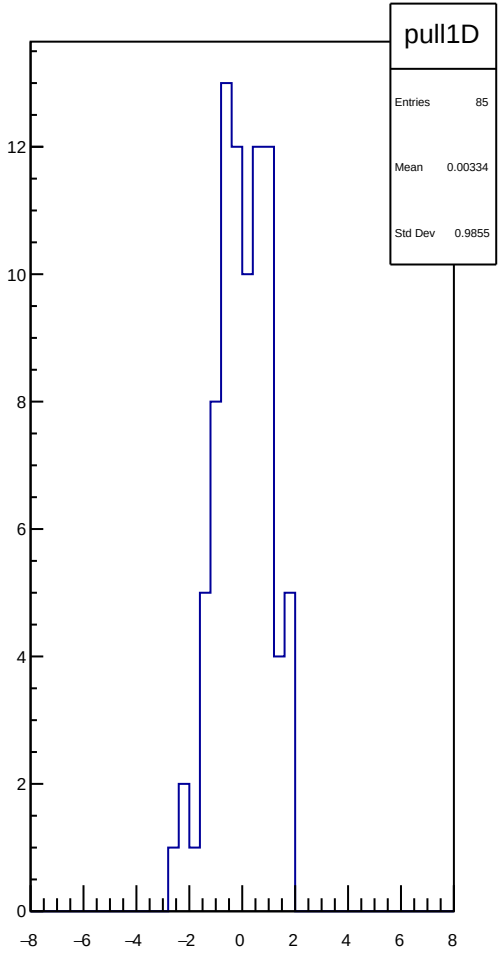

eigen_cor_asym_atr2_rms vs run
$\chi^2$ / ndf 114.1 / 84
p0 2410 ± 1.881
2480
2460
2440
2420
2400
2380
2360
2340

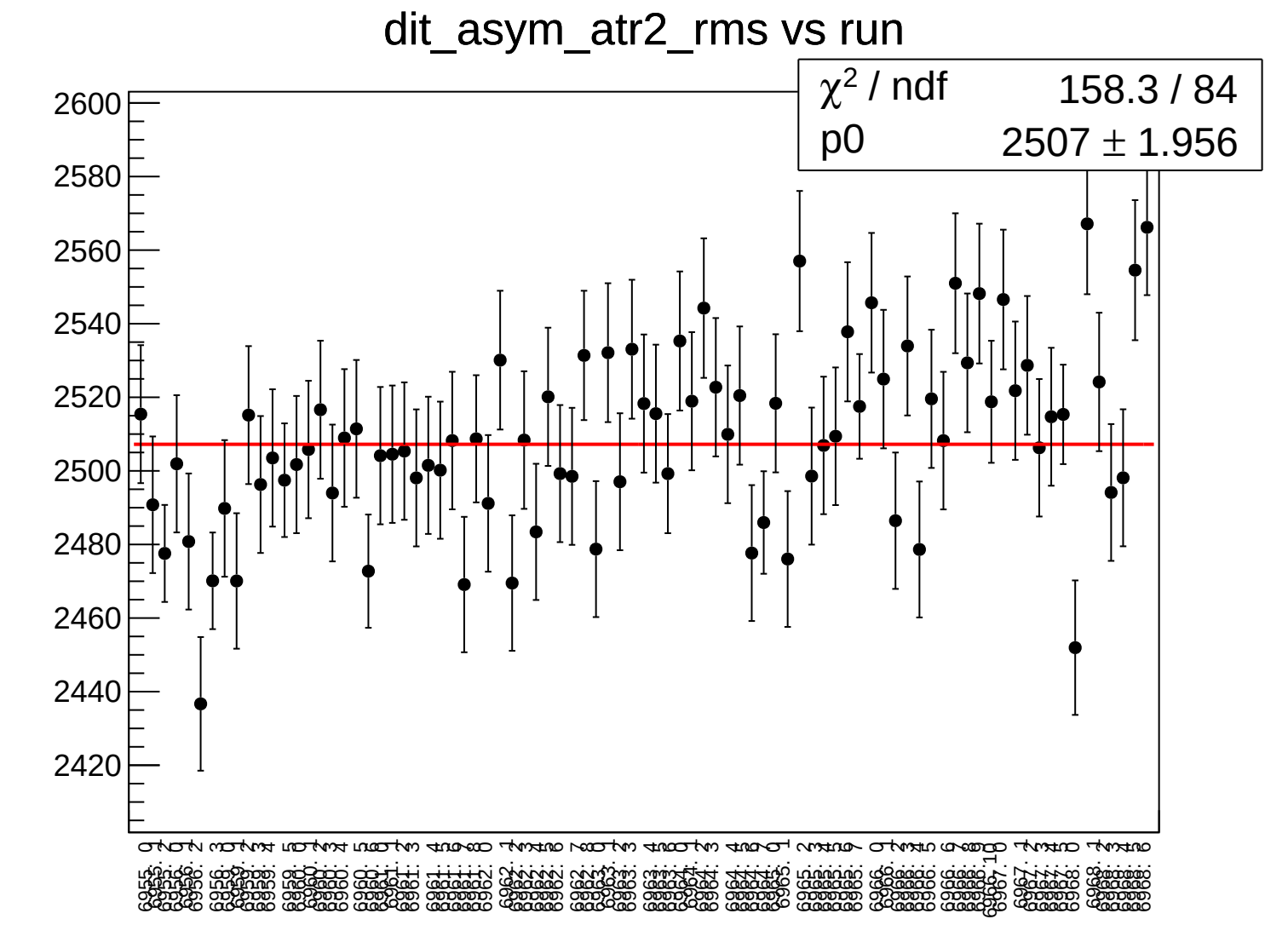

asym_atr2_eigen_cor_correction_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 101.2 / 84
p0 −4875 ± 1.215e+04
pull
Entries 85
Mean 24.26
Std Dev 60.07
2
1
0
−1
−2

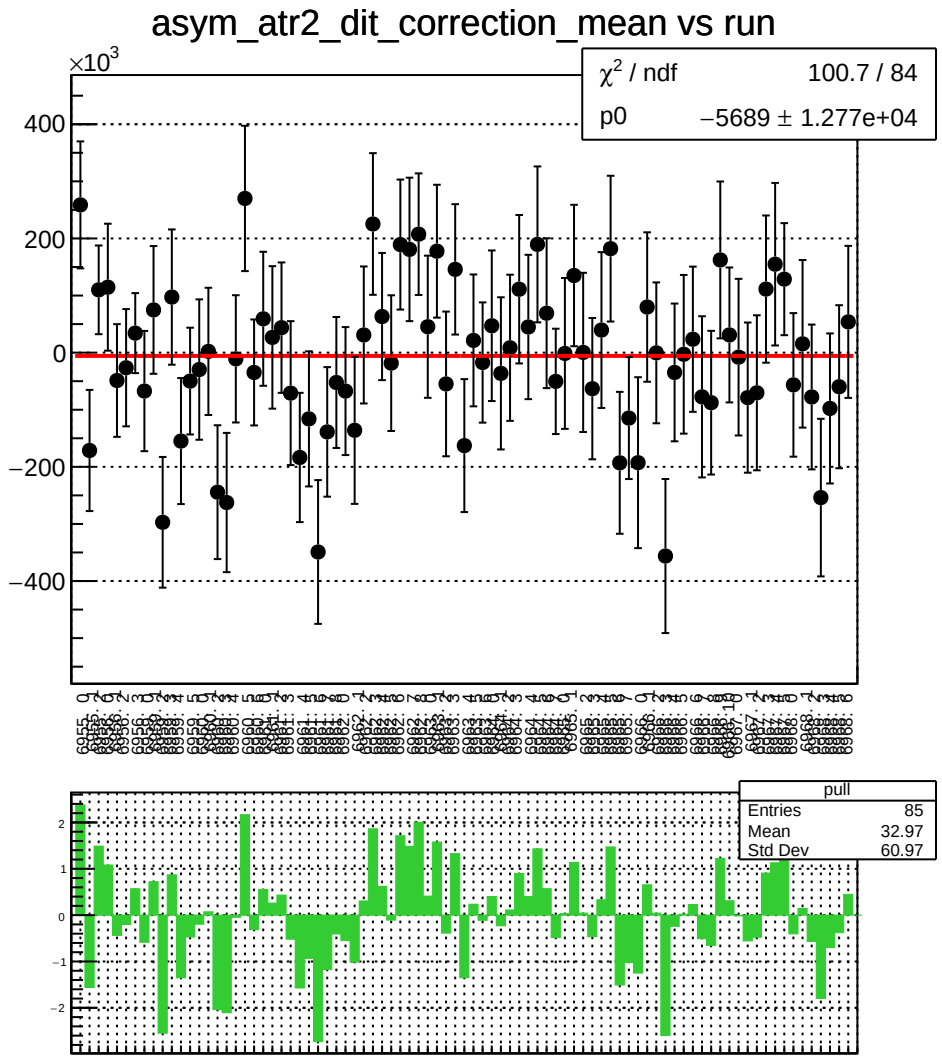

pull1D
Entries 85
Mean −0.01277
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

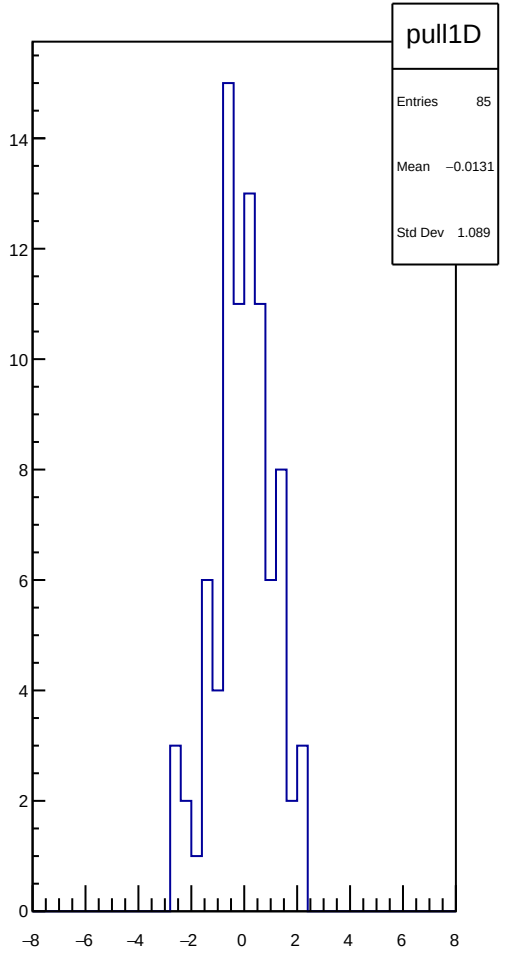

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.443e+04 / 84
p0 1.096e+04 ± 8.589
14000
13000
12000
11000
10000
9000

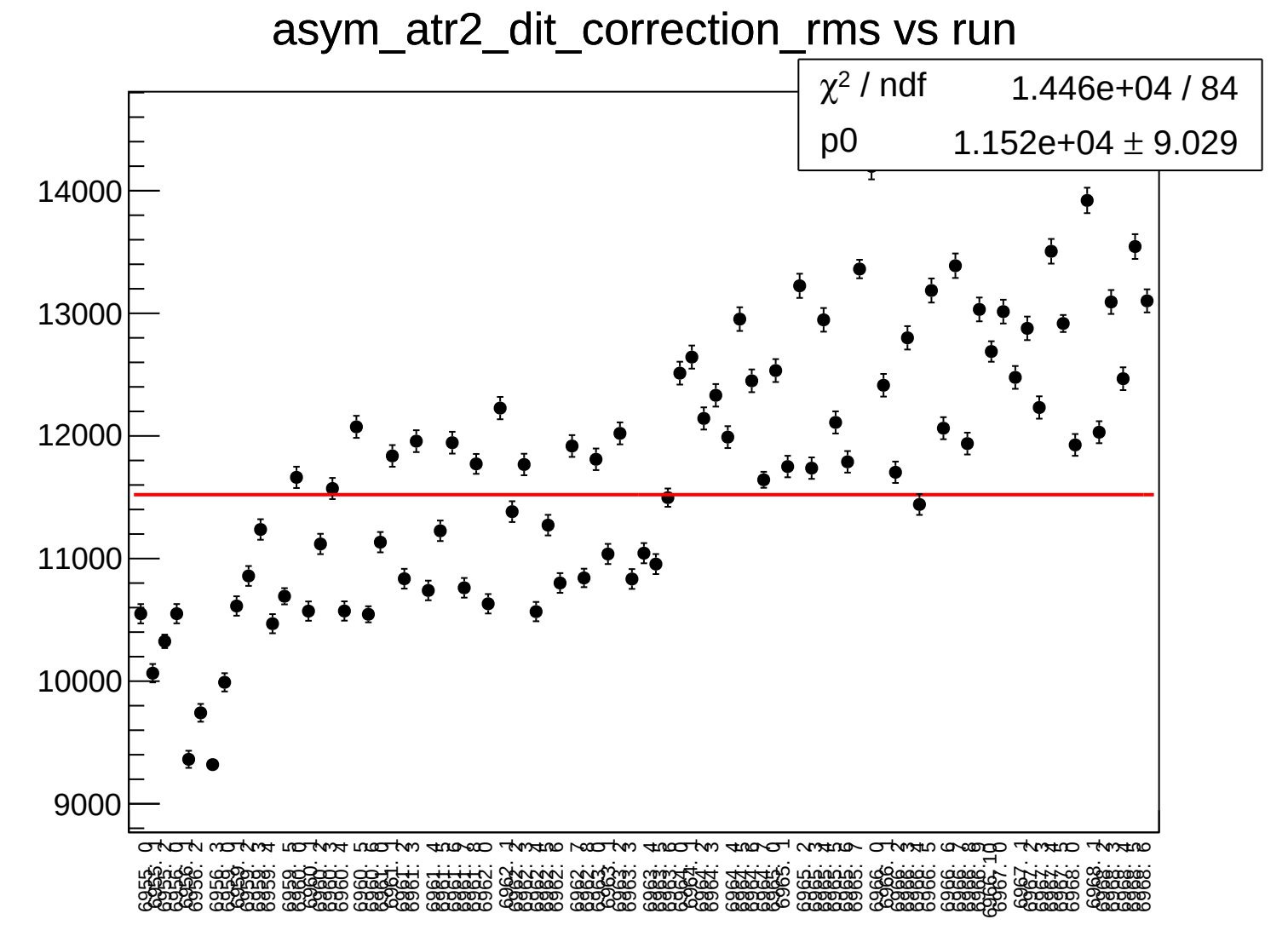

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 82.56 / 84
p0 −5129 ± 2767
pull
Entries 85
Mean −2190
Std Dev 0

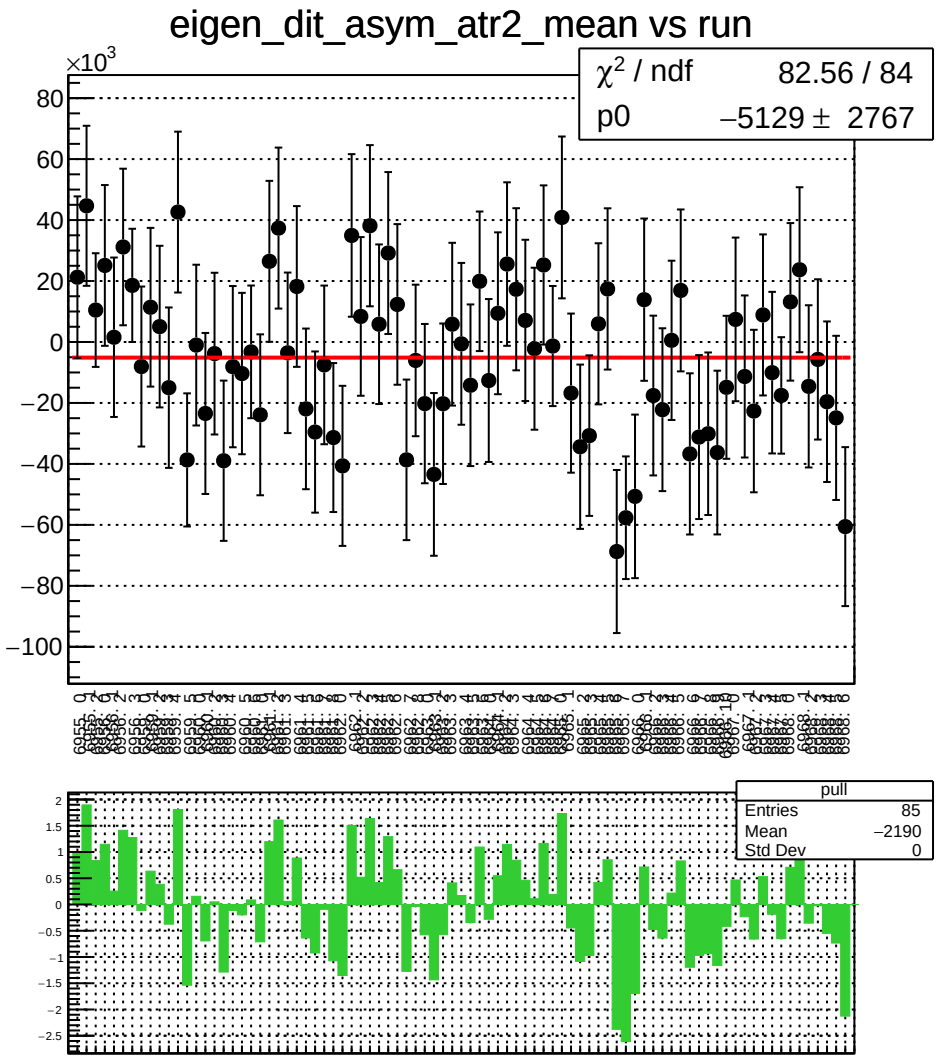

pull1D
Entries 85
Mean 0.00334
Std Dev 0.9855

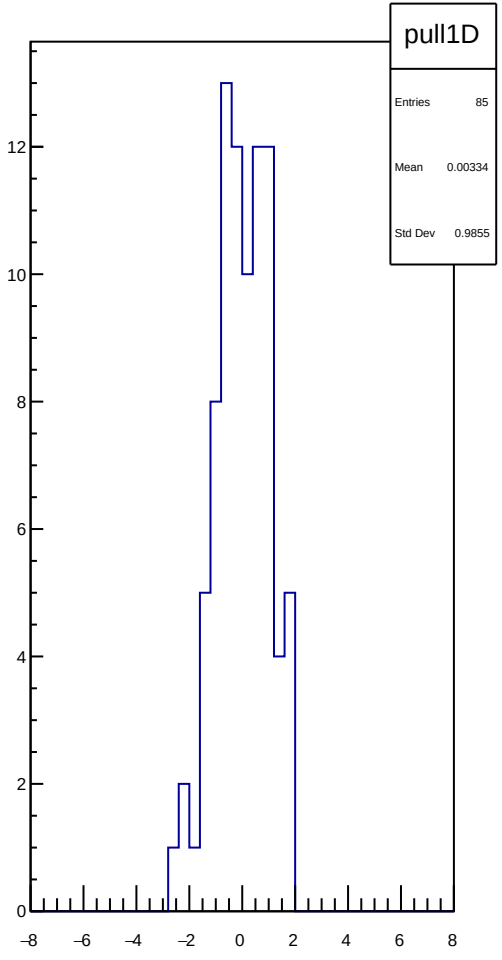

dit_asym_atr2_rms vs run
$\chi^2$ / ndf 158.3 / 84
p0 2507 ± 1.956
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

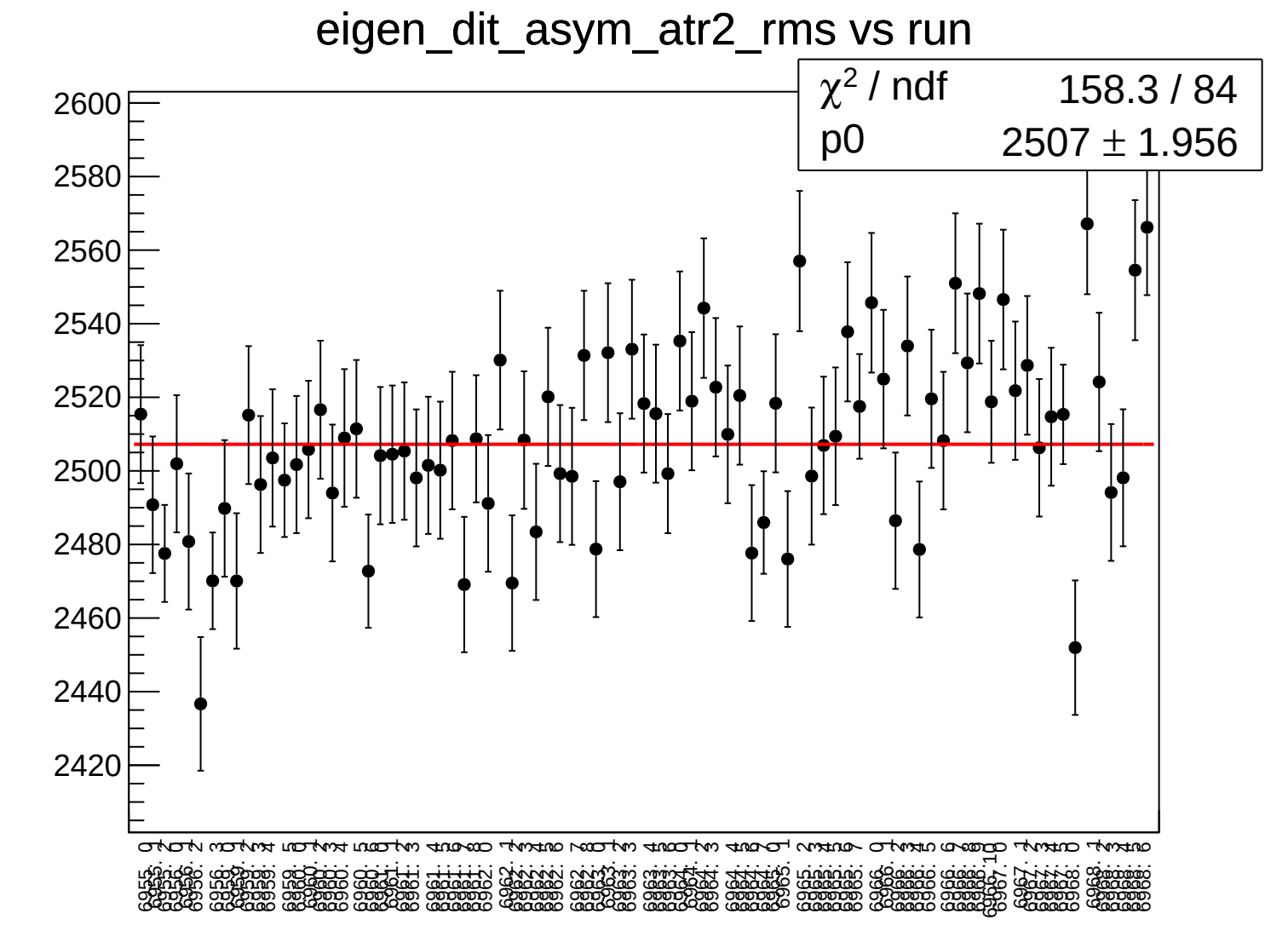

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 100.7 / 84
p0 −5689 ± 1.277e+04
400
200
0
−200
−400
pull
Entries 85
Mean 32.97
Std Dev 60.97
2
1
0
−1
−2

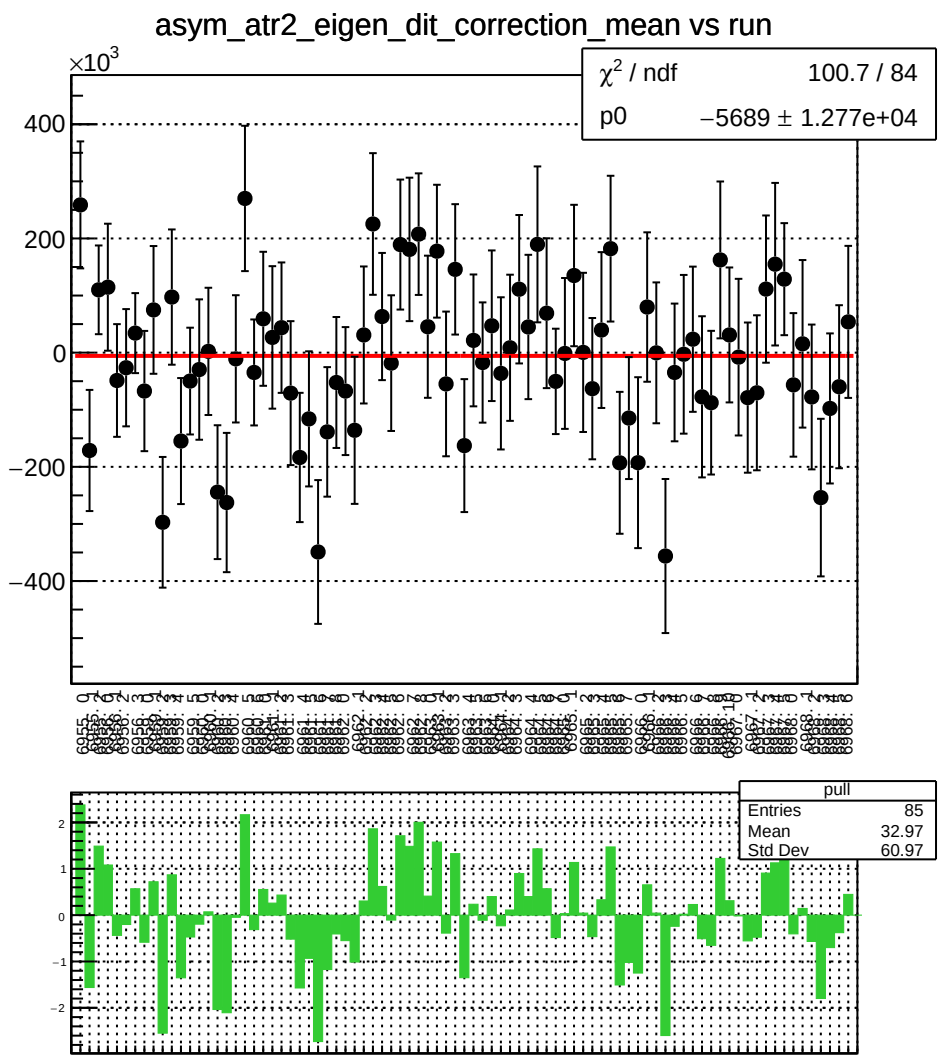

pull1D
Entries 85
Mean −0.0131
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

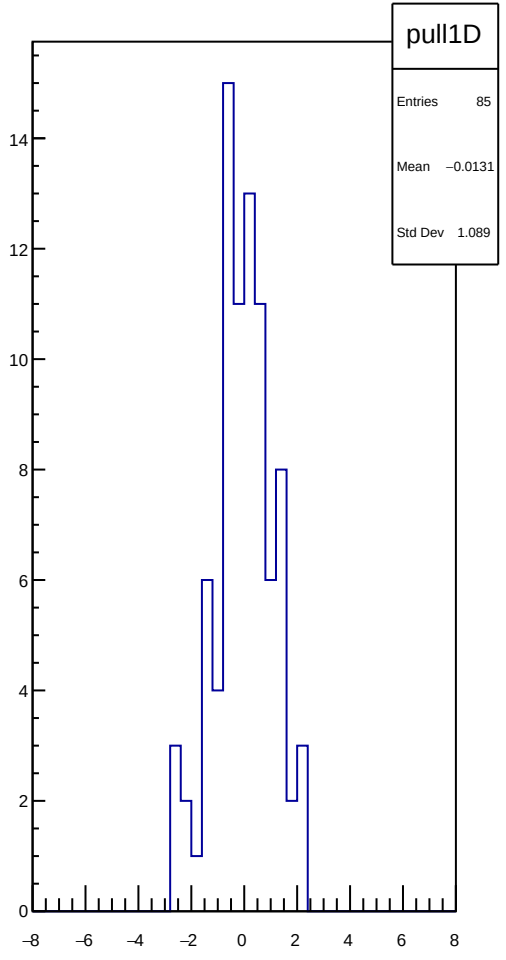

asym_atr2_dit_correction_rms vs run
χ² / ndf 1.446e+04 / 84
p0 1.152e+04 ± 9.029
14000
13000
12000
11000
10000
9000

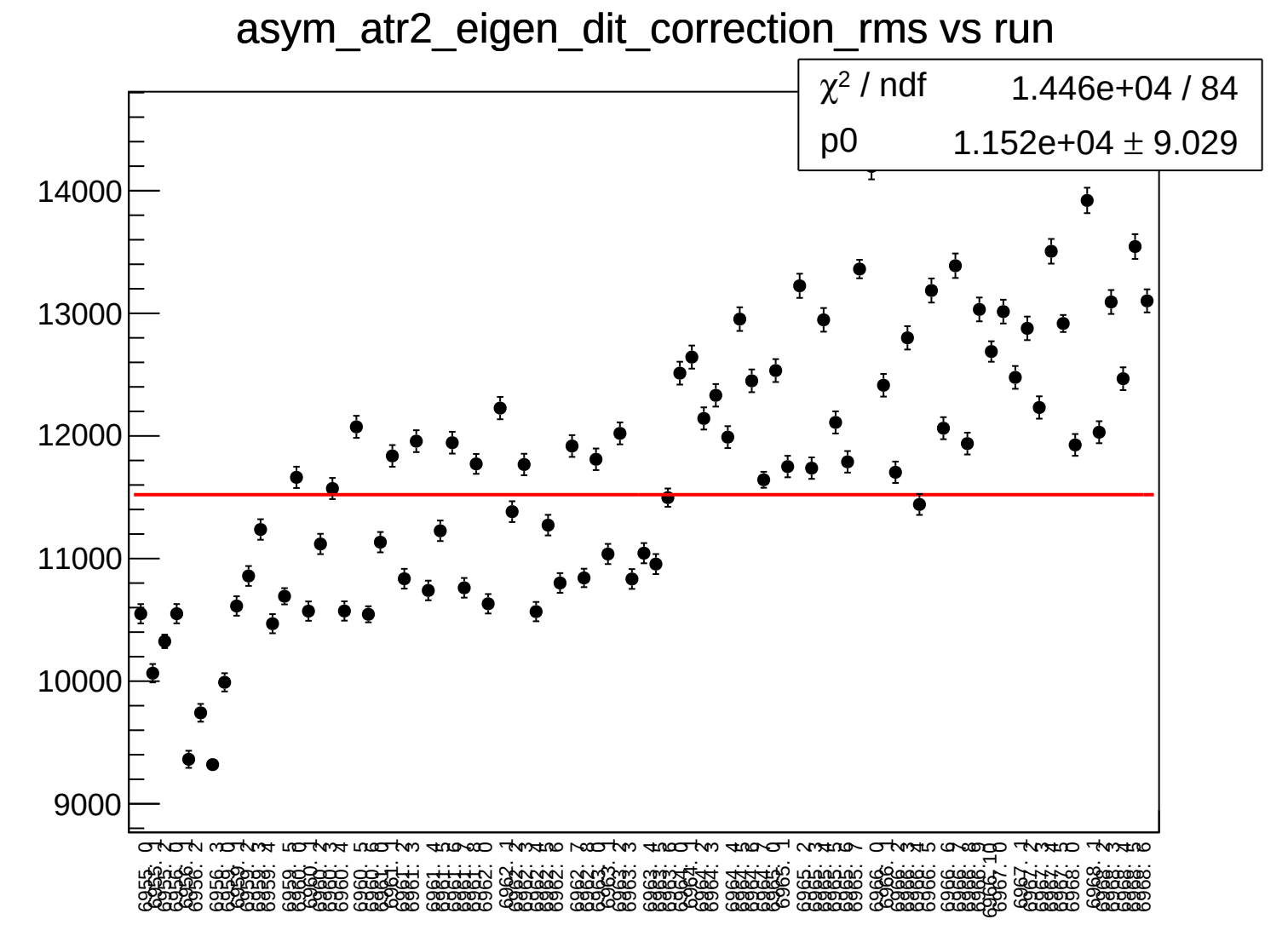

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 82.56 / 84
p0 −5129 ± 2767
pull
Entries 85
Mean −2190
Std Dev 0

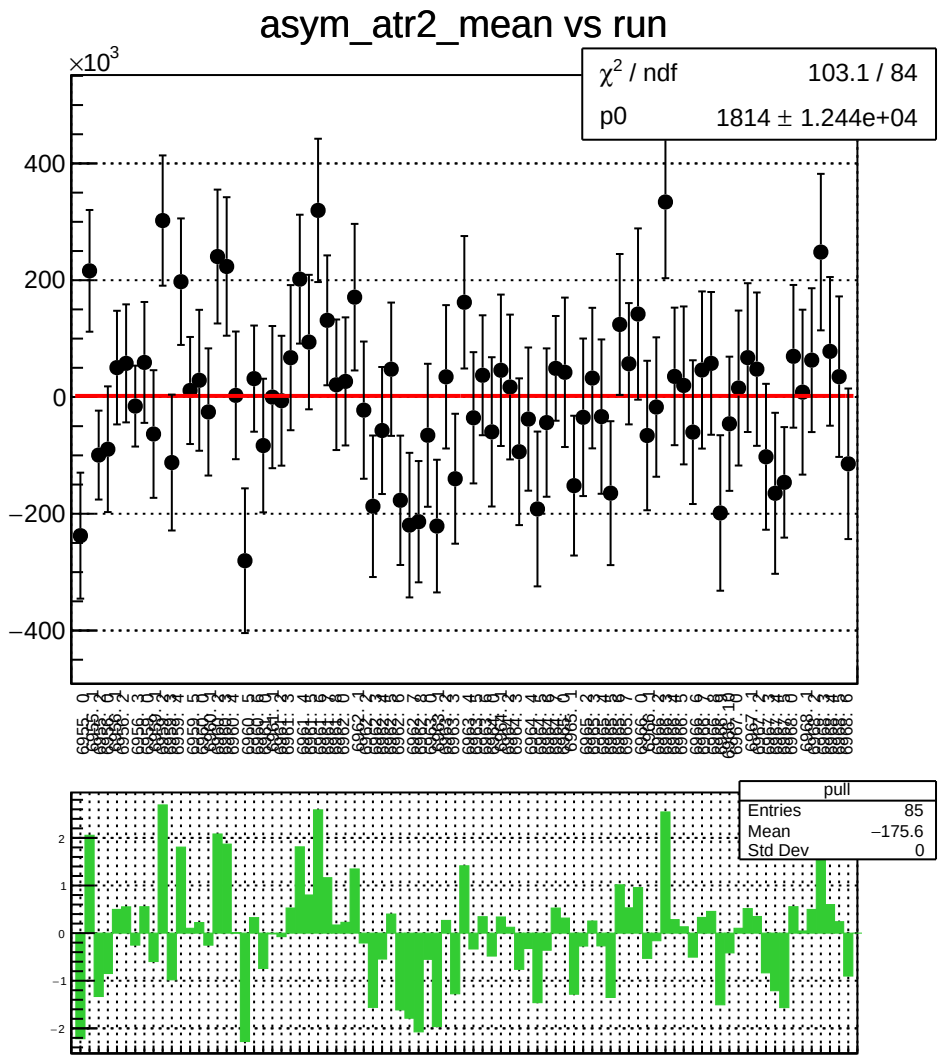

pull1D
Entries 85
Mean 0.00334
Std Dev 0.9855

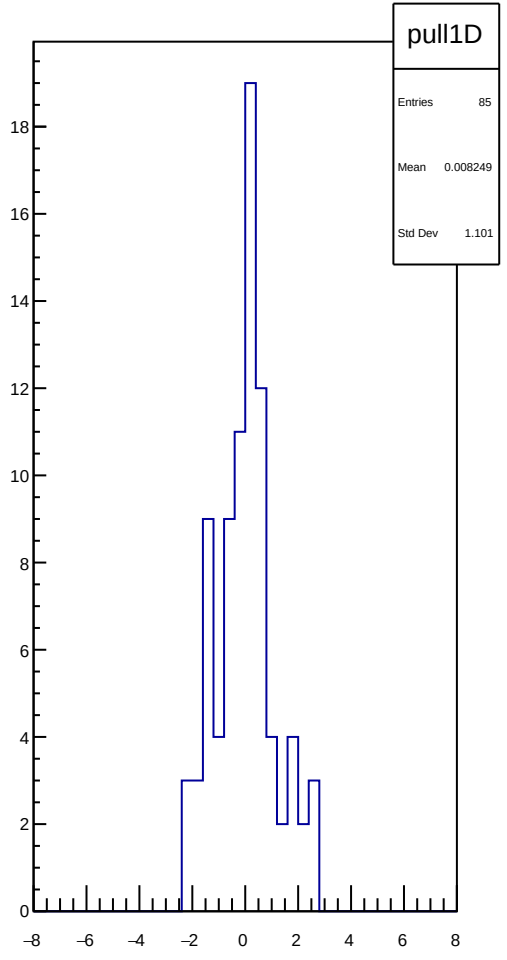

eigen_dit_asym_atr2_rms vs run
χ² / ndf 158.3 / 84
p0 2507 ± 1.956
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

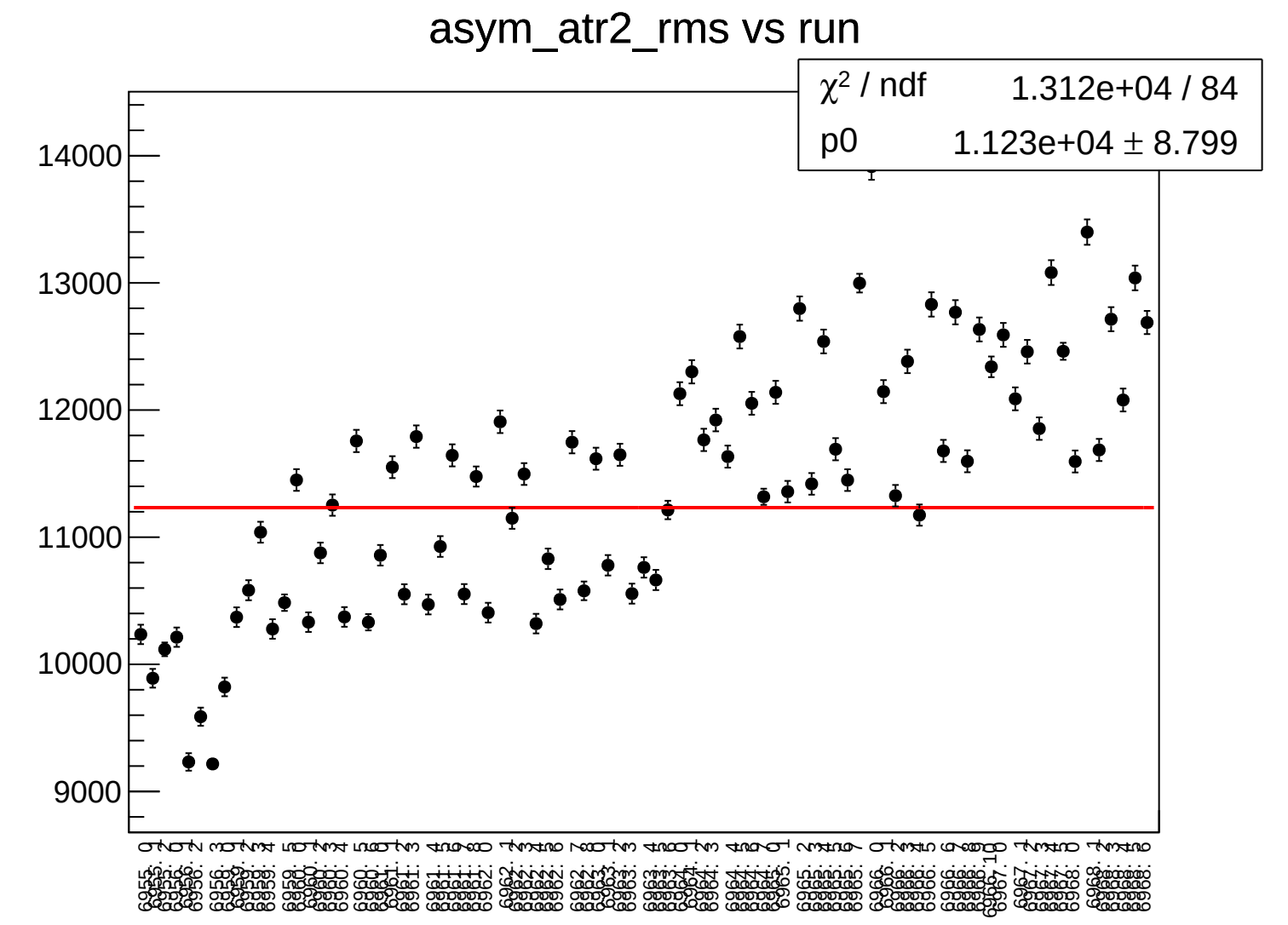

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.7 / 84
p0 −5689 ± 1.277e+04
400
200
0
−200
−400
pull
Entries 85
Mean 32.97
Std Dev 60.97
2
1
0
−1
−2

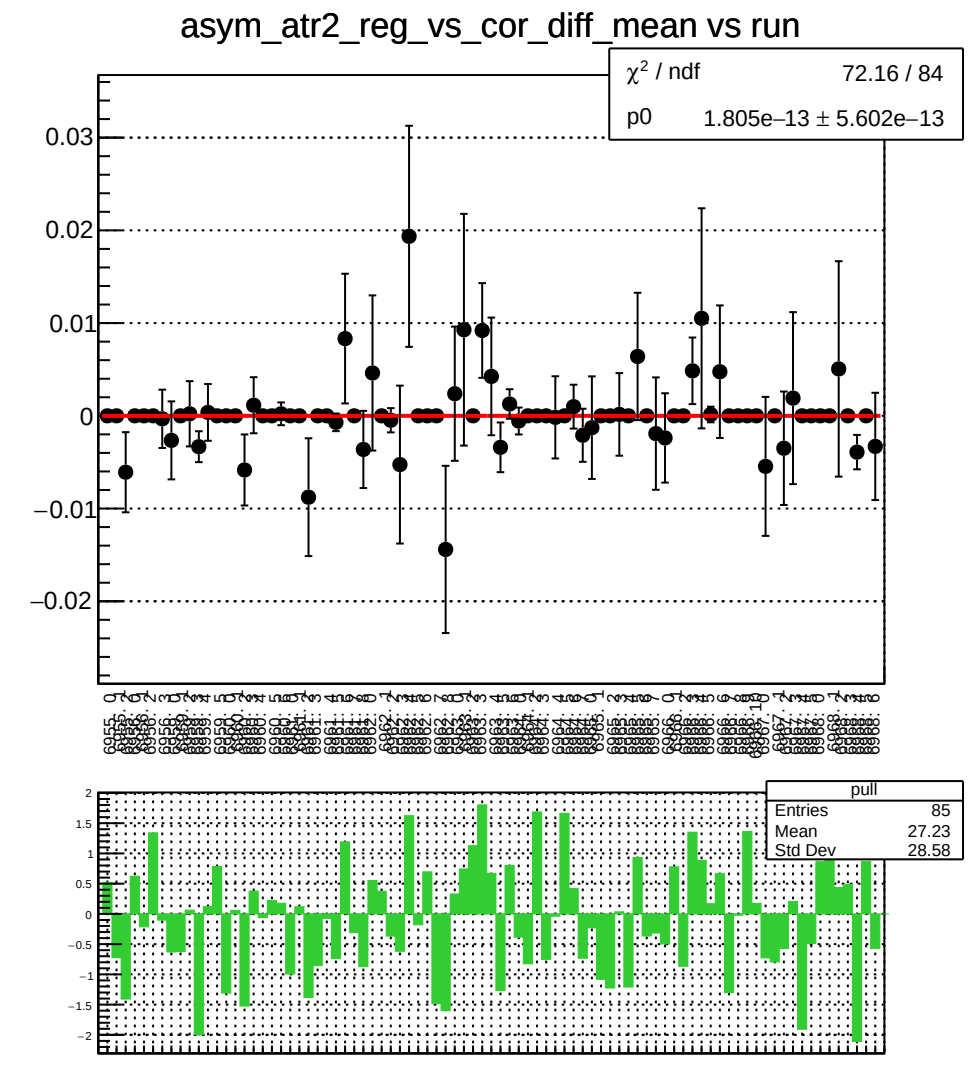

pull1D
Entries 85
Mean −0.0131
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

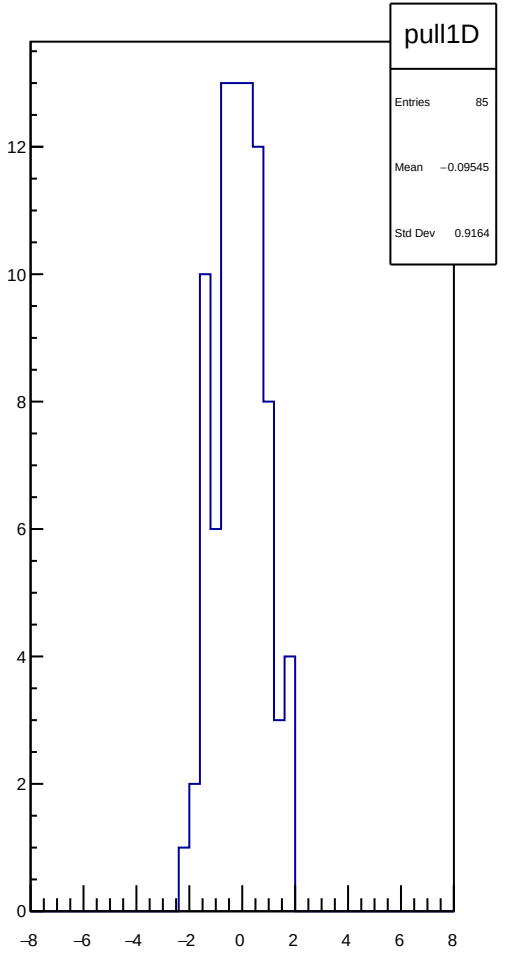

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 1.446e+04 / 84
p0 1.152e+04 ± 9.029
14000
13000
12000
11000
10000
9000

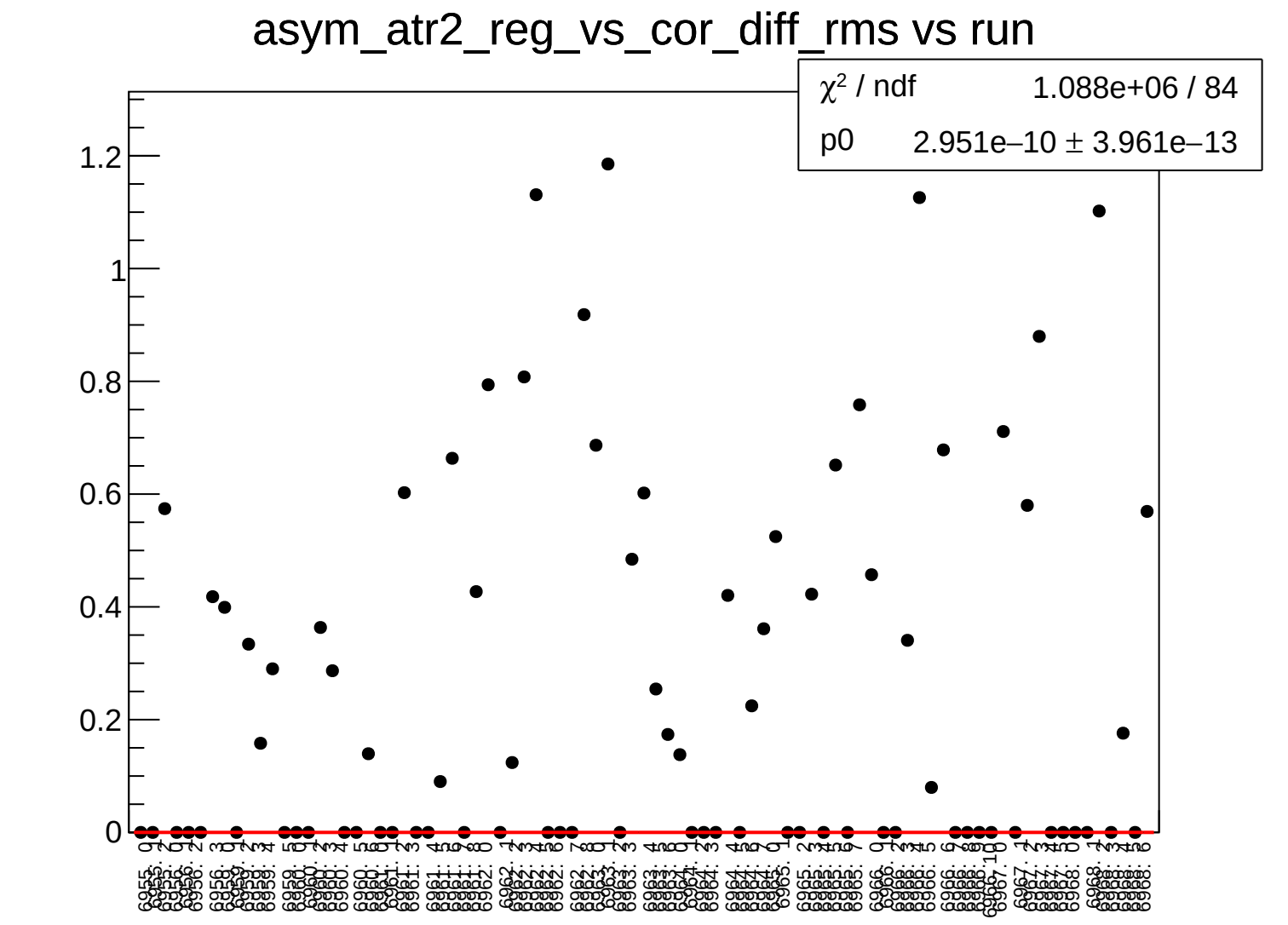

asym_atr2_mean vs run
×10^3
χ² / ndf 103.1 / 84
p0 1814 ± 1.244e+04
400
200
0
−200
−400
pull
Entries 85
Mean −175.6
Std Dev 0
2
1
0
−1
−2

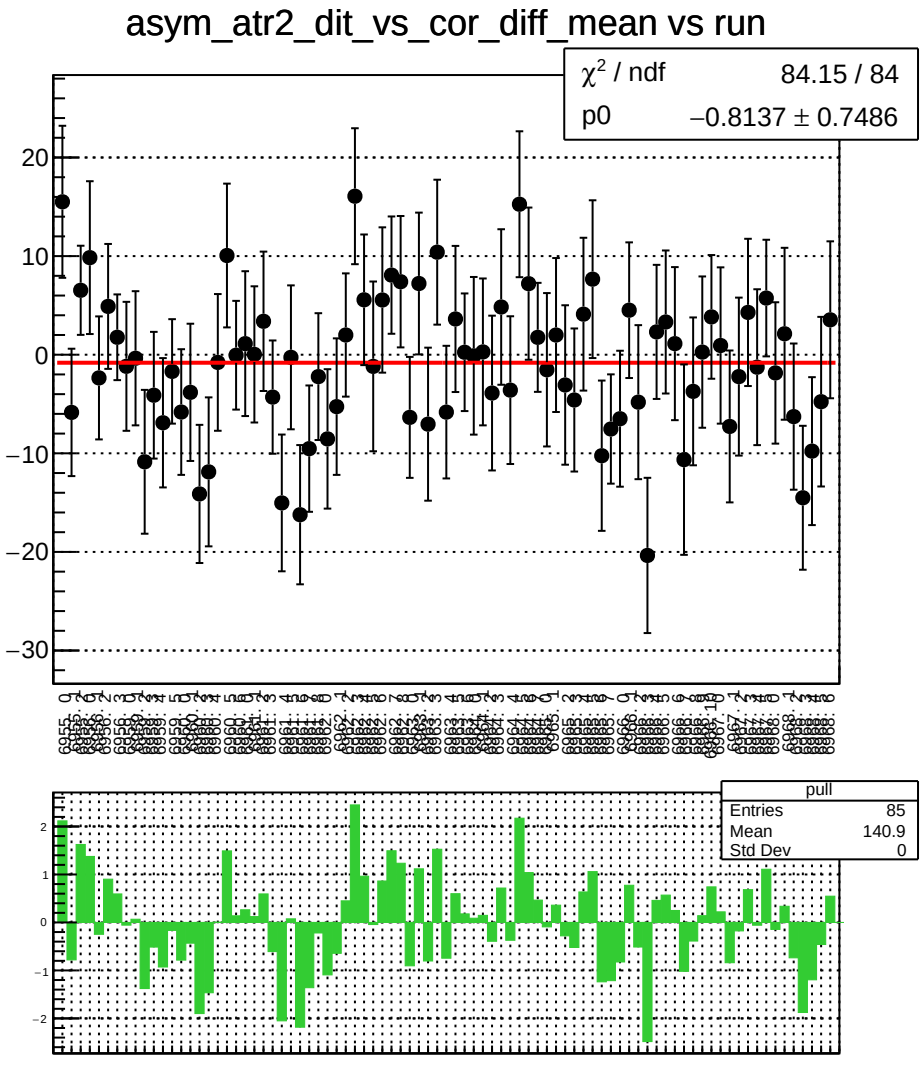

pull1D
Entries 85
Mean 0.008249
Std Dev 1.101
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

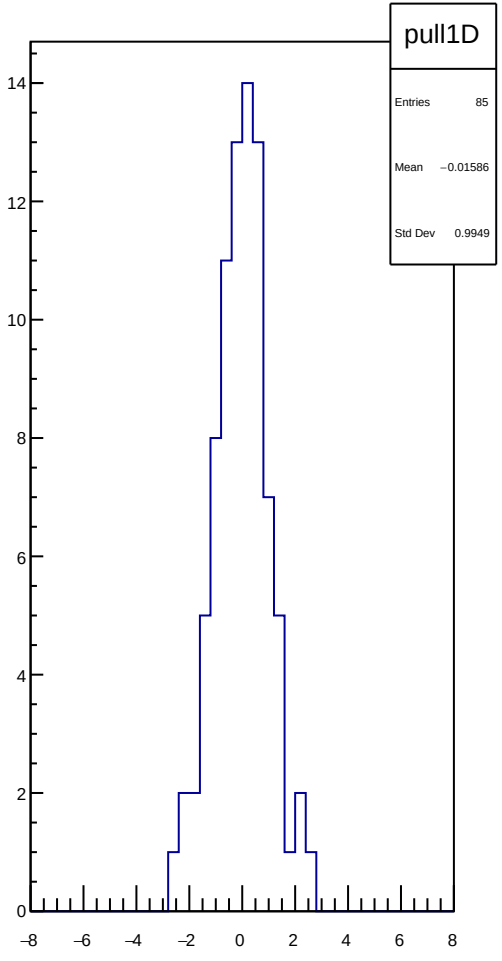

asym_atr2_rms vs run
χ² / ndf 1.312e+04 / 84
p0 1.123e+04 ± 8.799
14000
13000
12000
11000
10000
9000

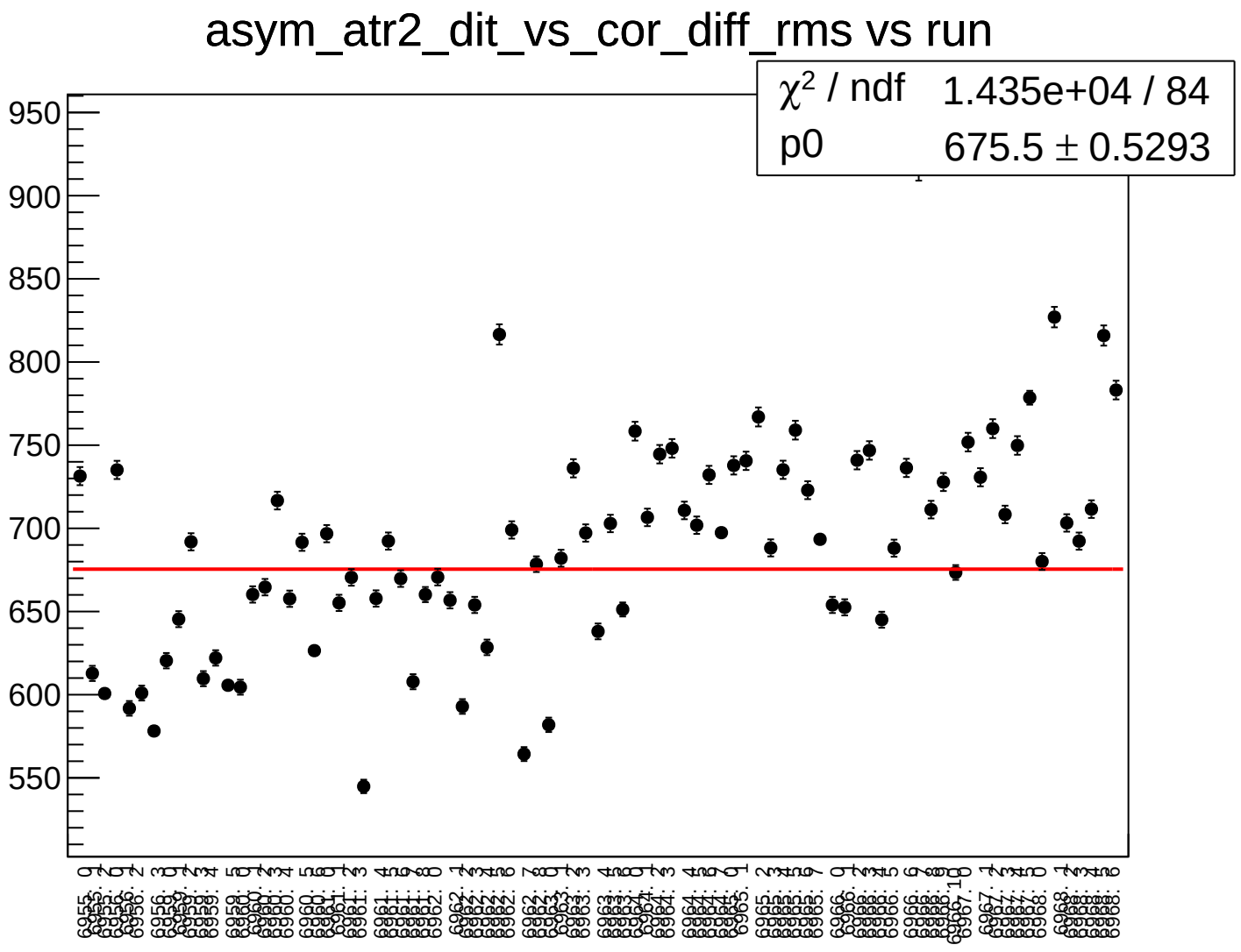

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 72.16 / 84
p0 1.805e−13 ± 5.602e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean 27.23
Std Dev 28.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

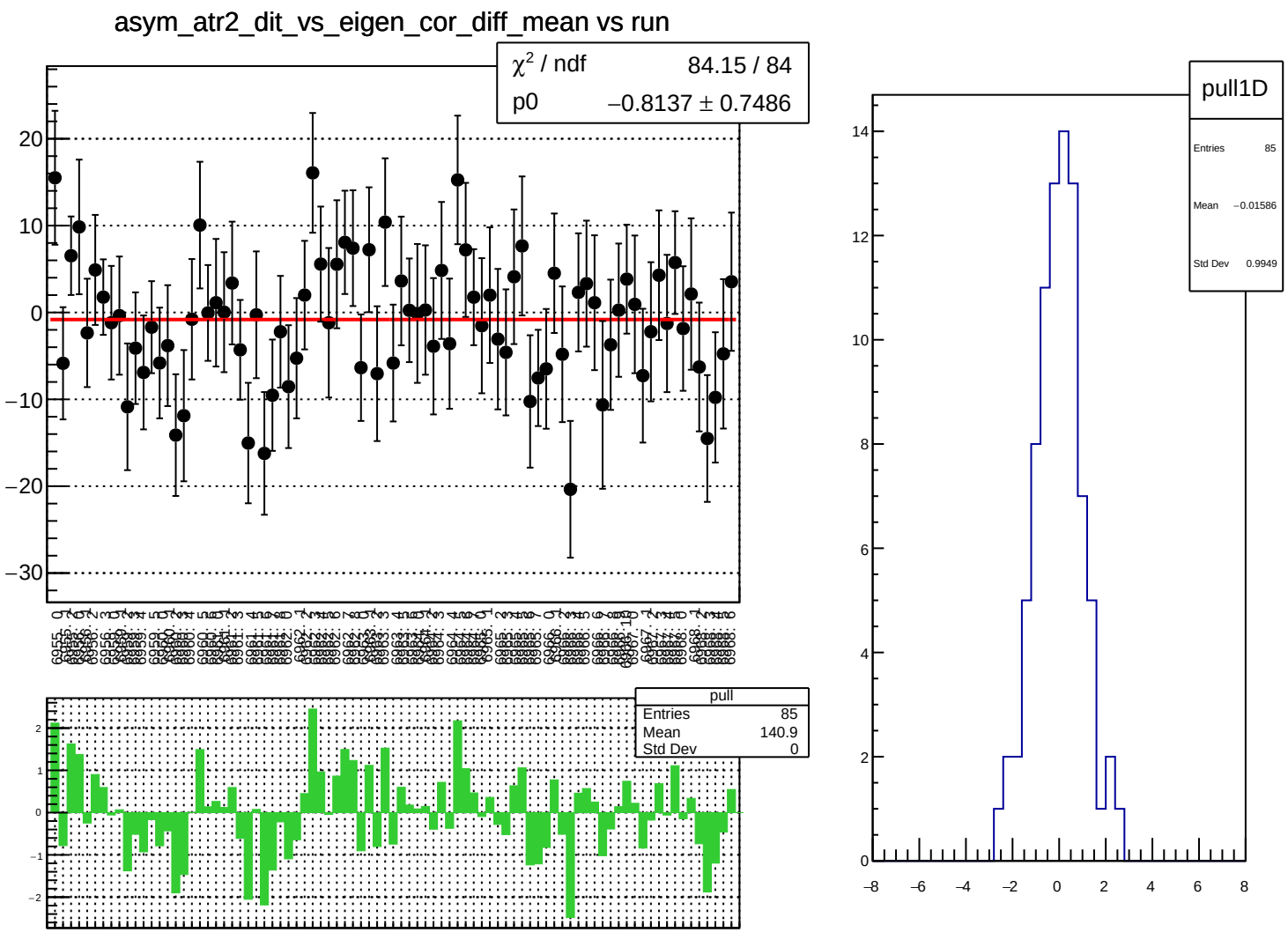

pull1D
Entries 85
Mean −0.09545
Std Dev 0.9164
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

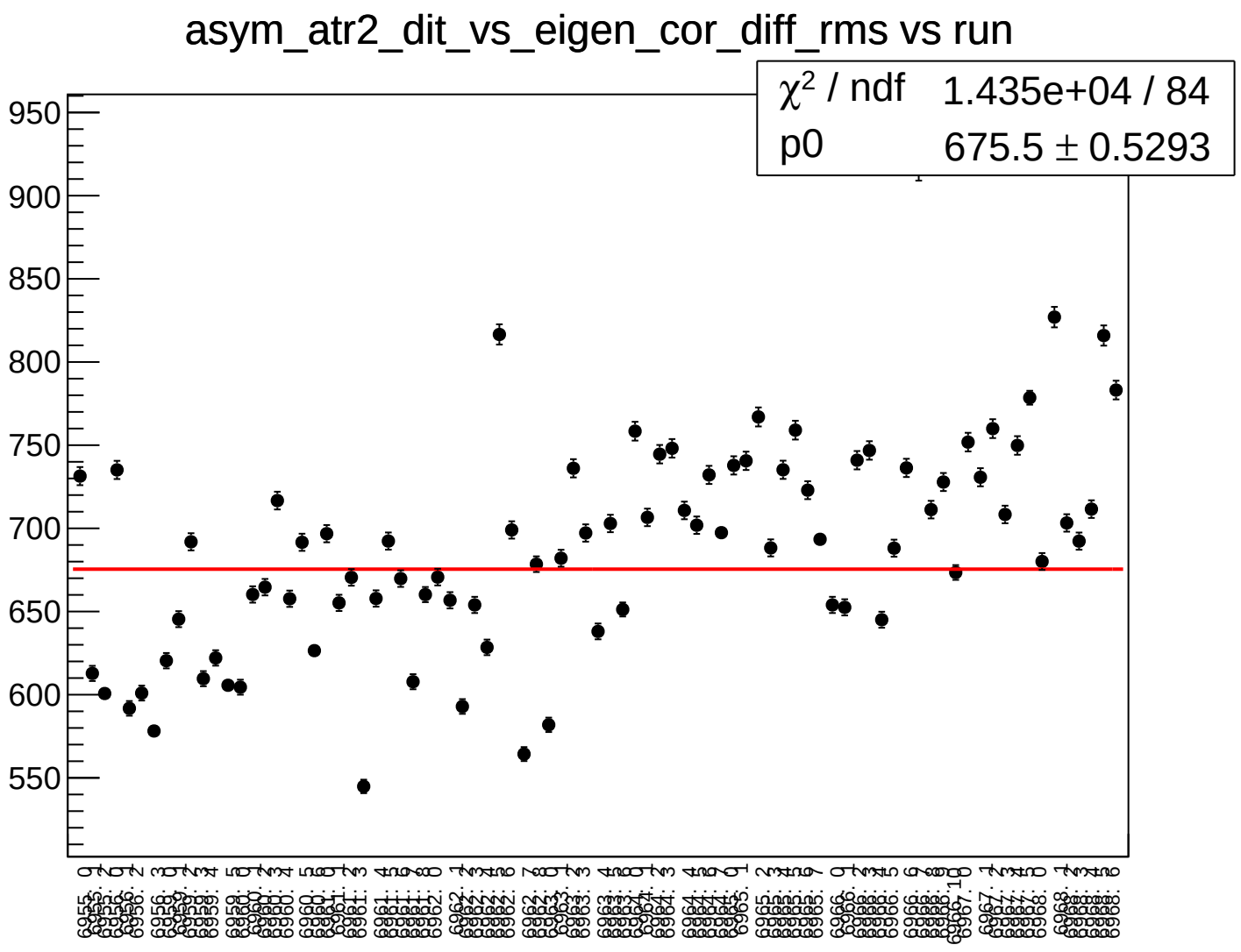

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.088e+06 / 84
p0 2.951e−10 ± 3.961e−13
1.2
1
0.8
0.6
0.4
0.2
0

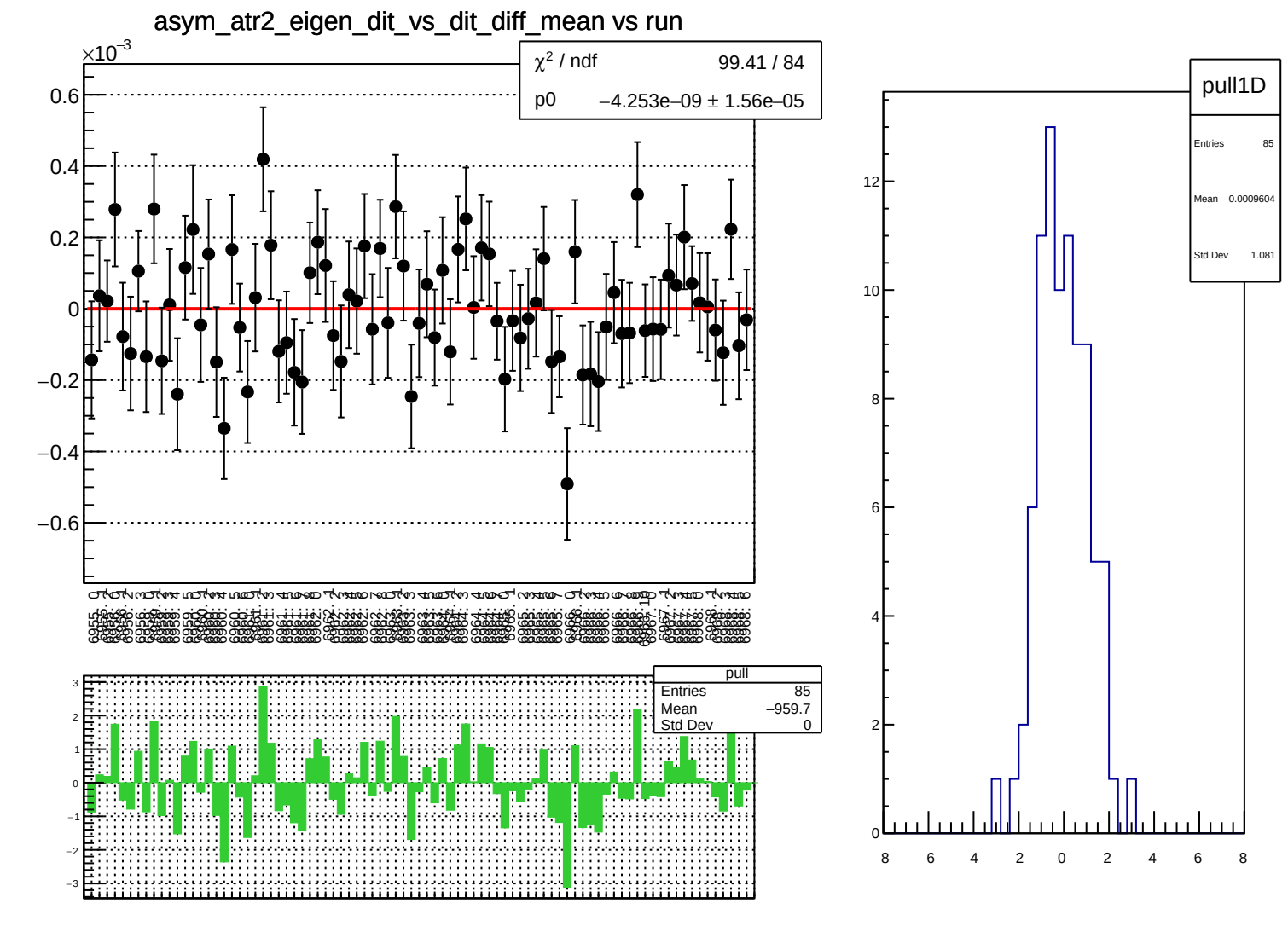

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 84.15 / 84
p0 −0.8137 ± 0.7486
pull
Entries 85
Mean 140.9
Std Dev 0

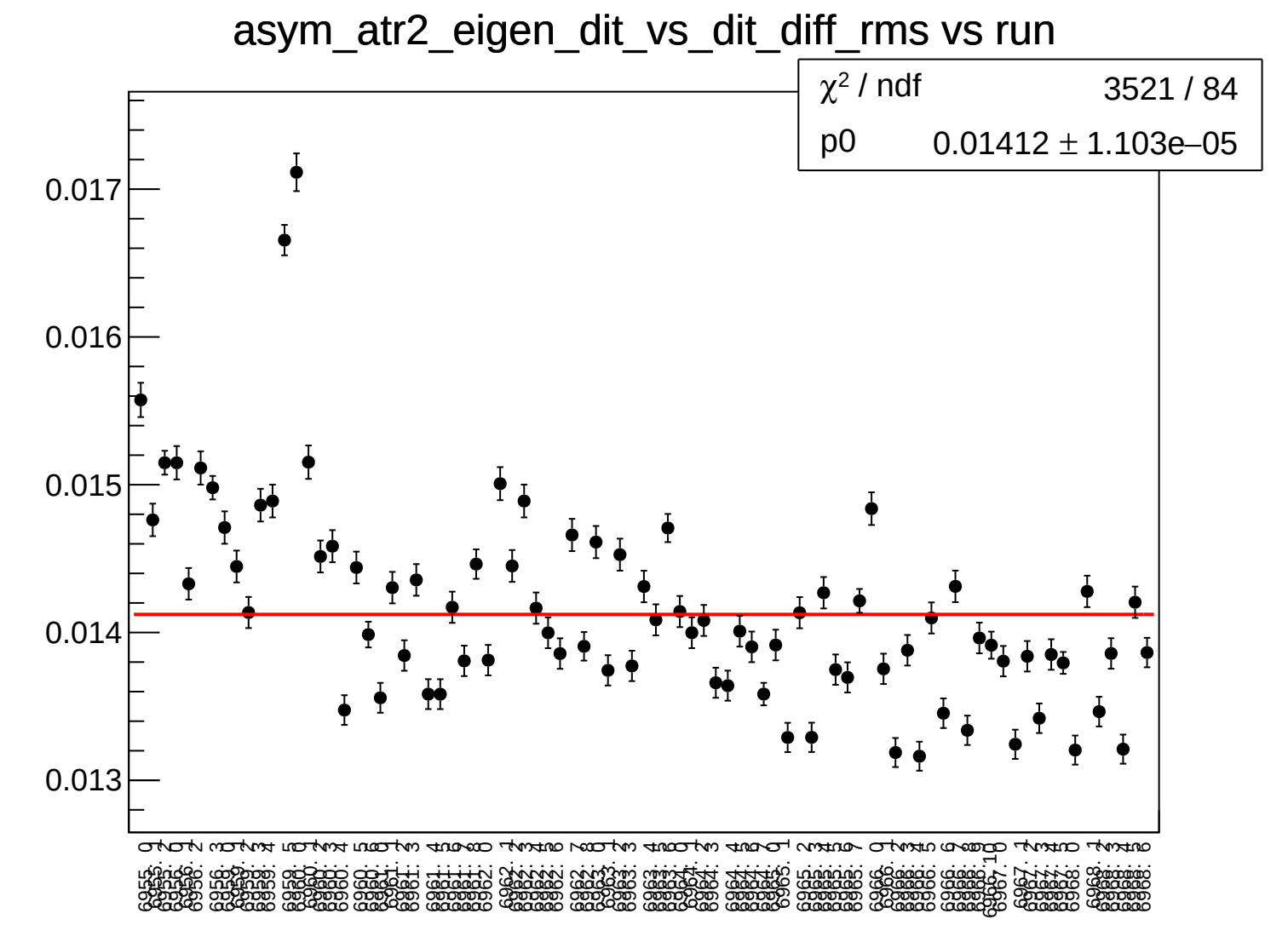

pull1D
Entries 85
Mean −0.01586
Std Dev 0.9949

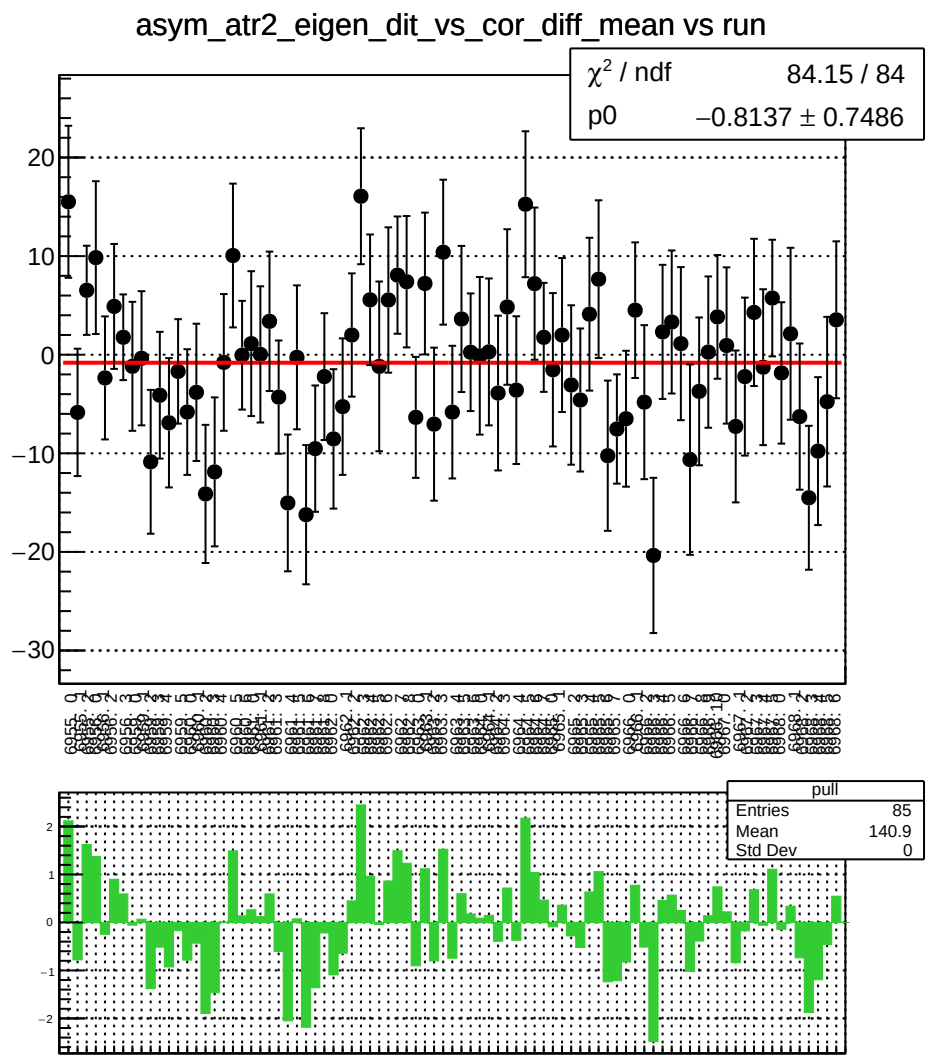

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.435e+04 / 84
p0 675.5 ± 0.5293
950
900
850
800
750
700
650
600
550

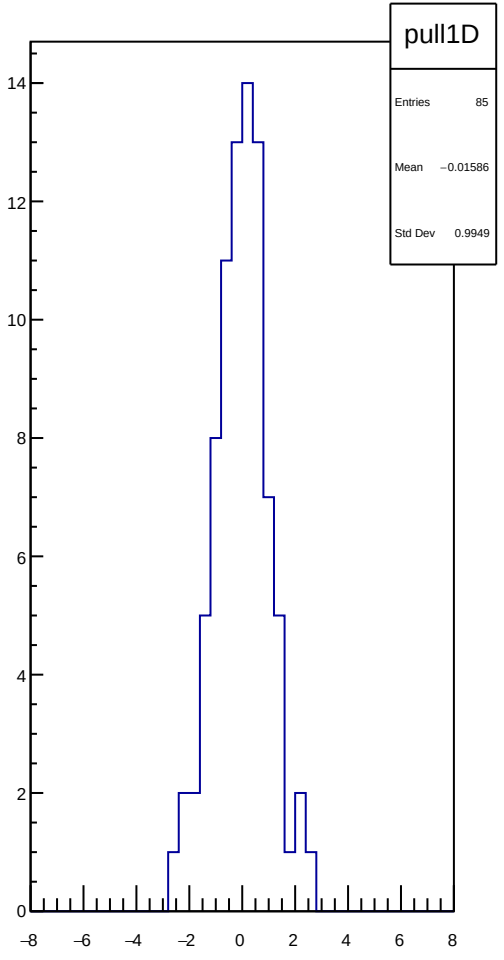

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.15 / 84
p0 −0.8137 ± 0.7486
pull
Entries 85
Mean 140.9
Std Dev 0
pull1D
Entries 85
Mean −0.01586
Std Dev 0.9949

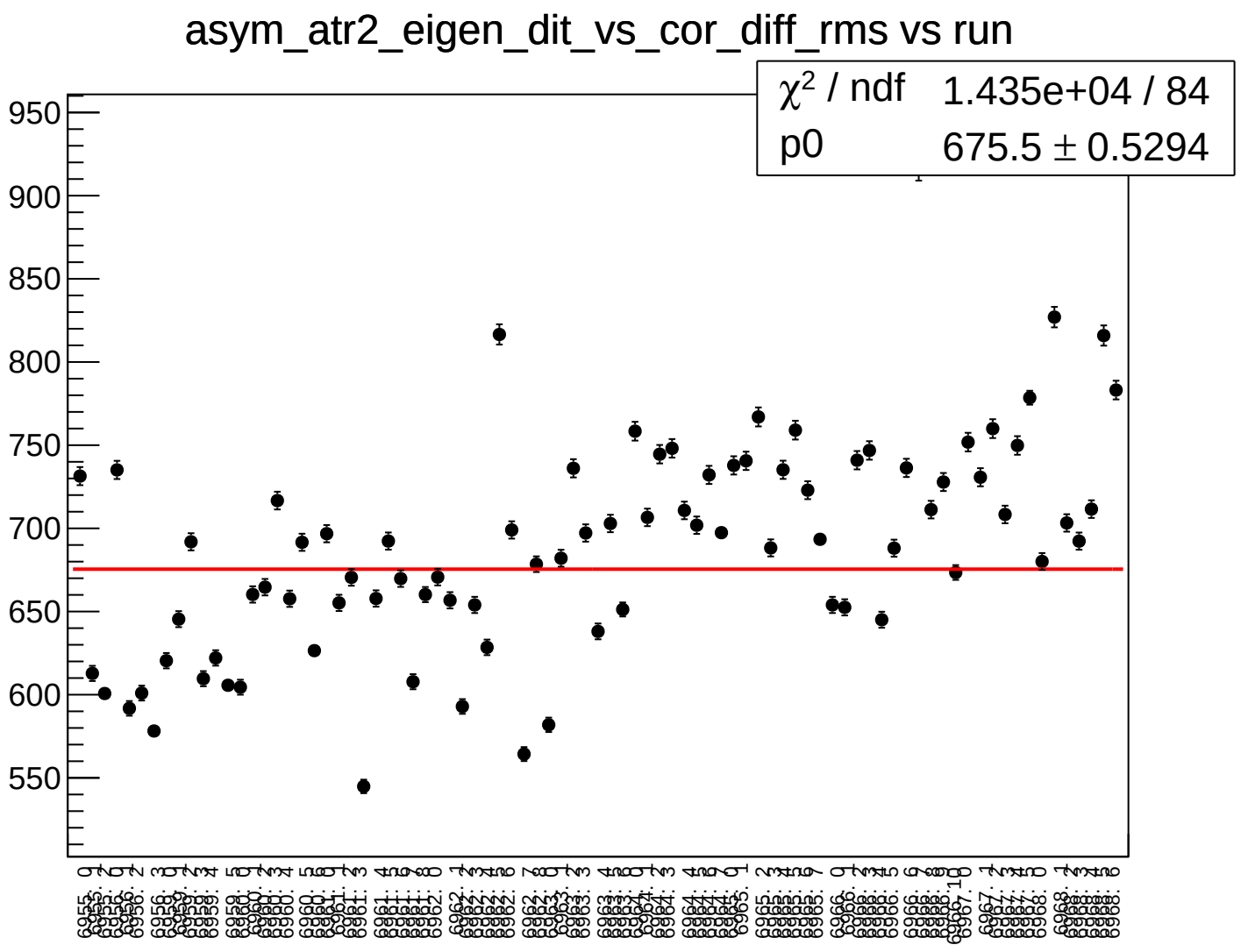

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.435e+04 / 84
p0 675.5 ± 0.5293
950
900
850
800
750
700
650
600
550

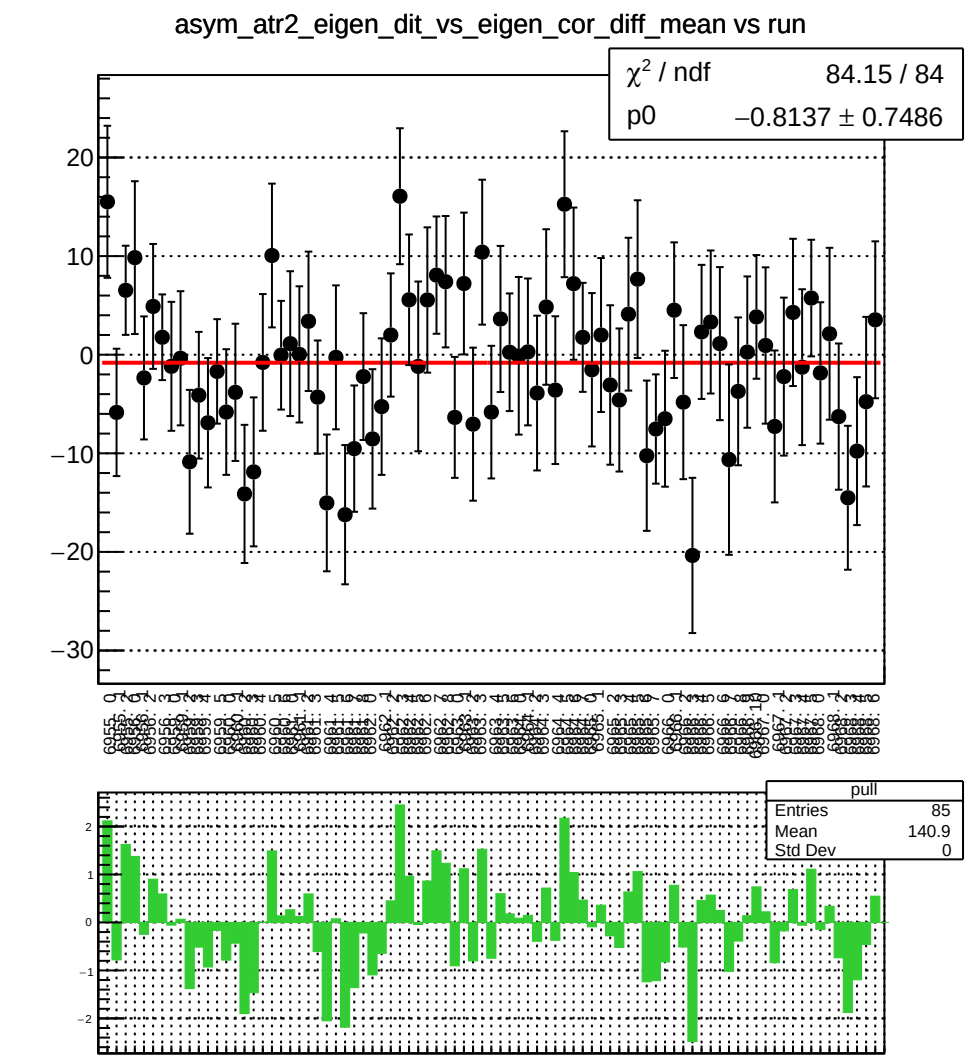

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.41 / 84
p0 −4.253e−09 ± 1.56e−05
pull
Entries 85
Mean −959.7
Std Dev 0
pull1D
Entries 85
Mean 0.0009604
Std Dev 1.081

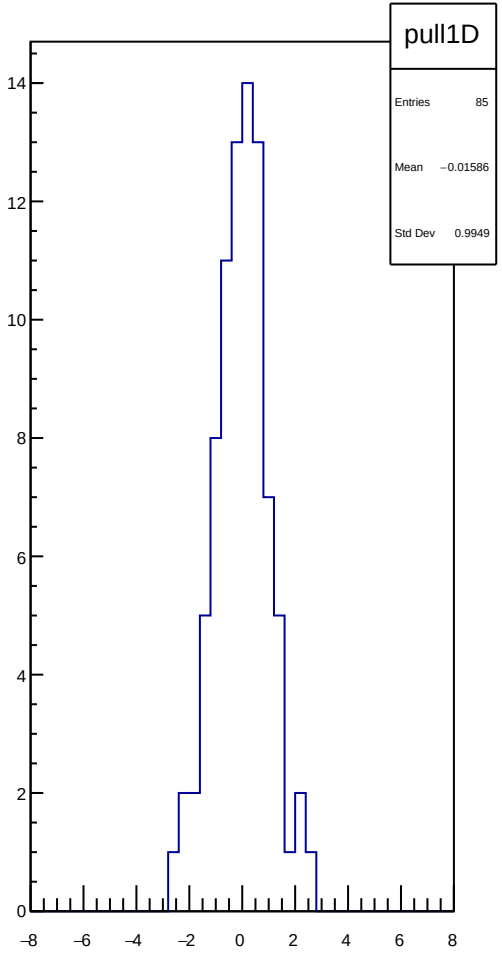

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3521 / 84
p0 0.01412 ± 1.103e–05
0.017
0.016
0.015
0.014
0.013

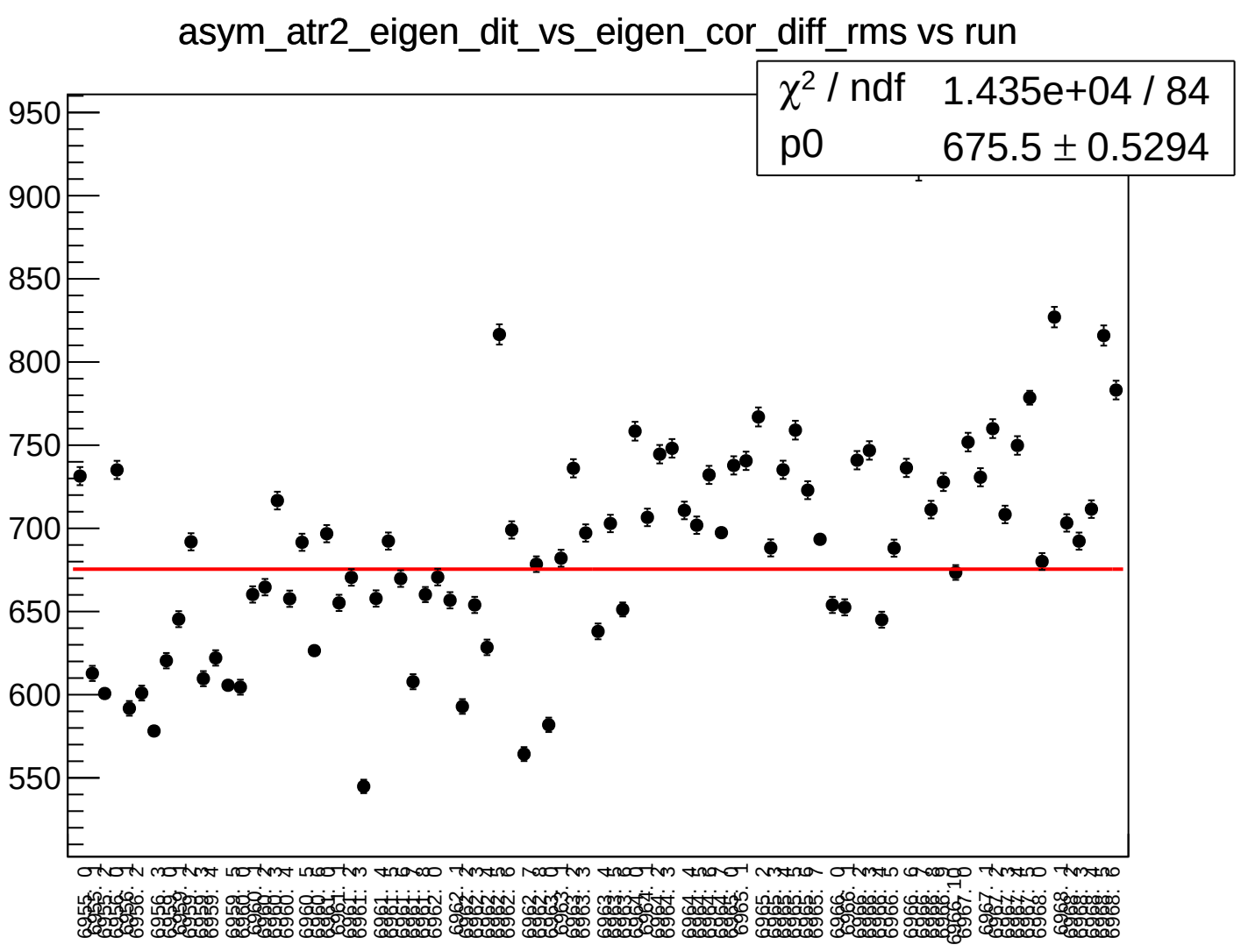

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.15 / 84
p0 −0.8137 ± 0.7486
pull
Entries 85
Mean 140.9
Std Dev 0

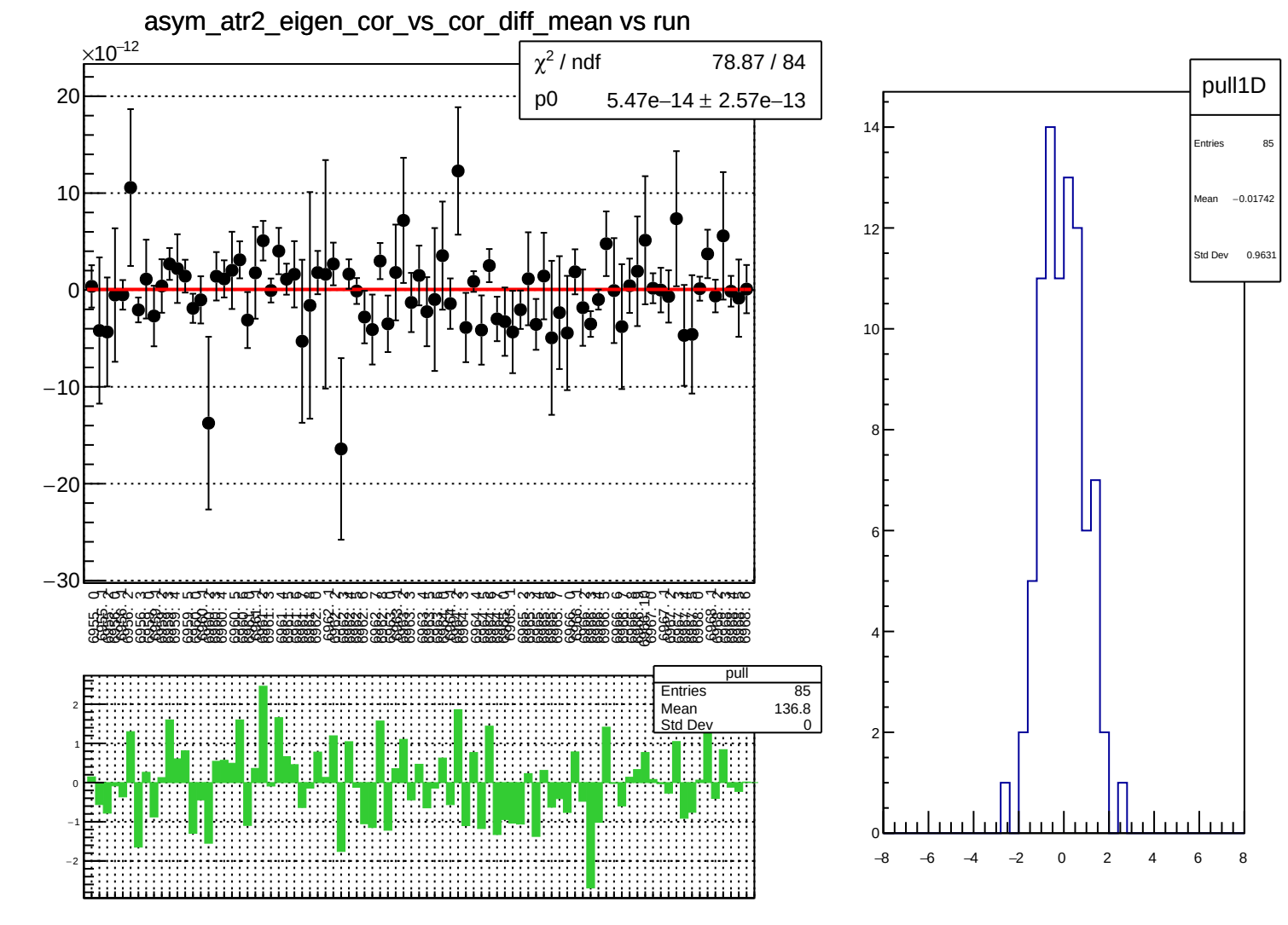

pull1D
Entries 85
Mean −0.01586
Std Dev 0.9949

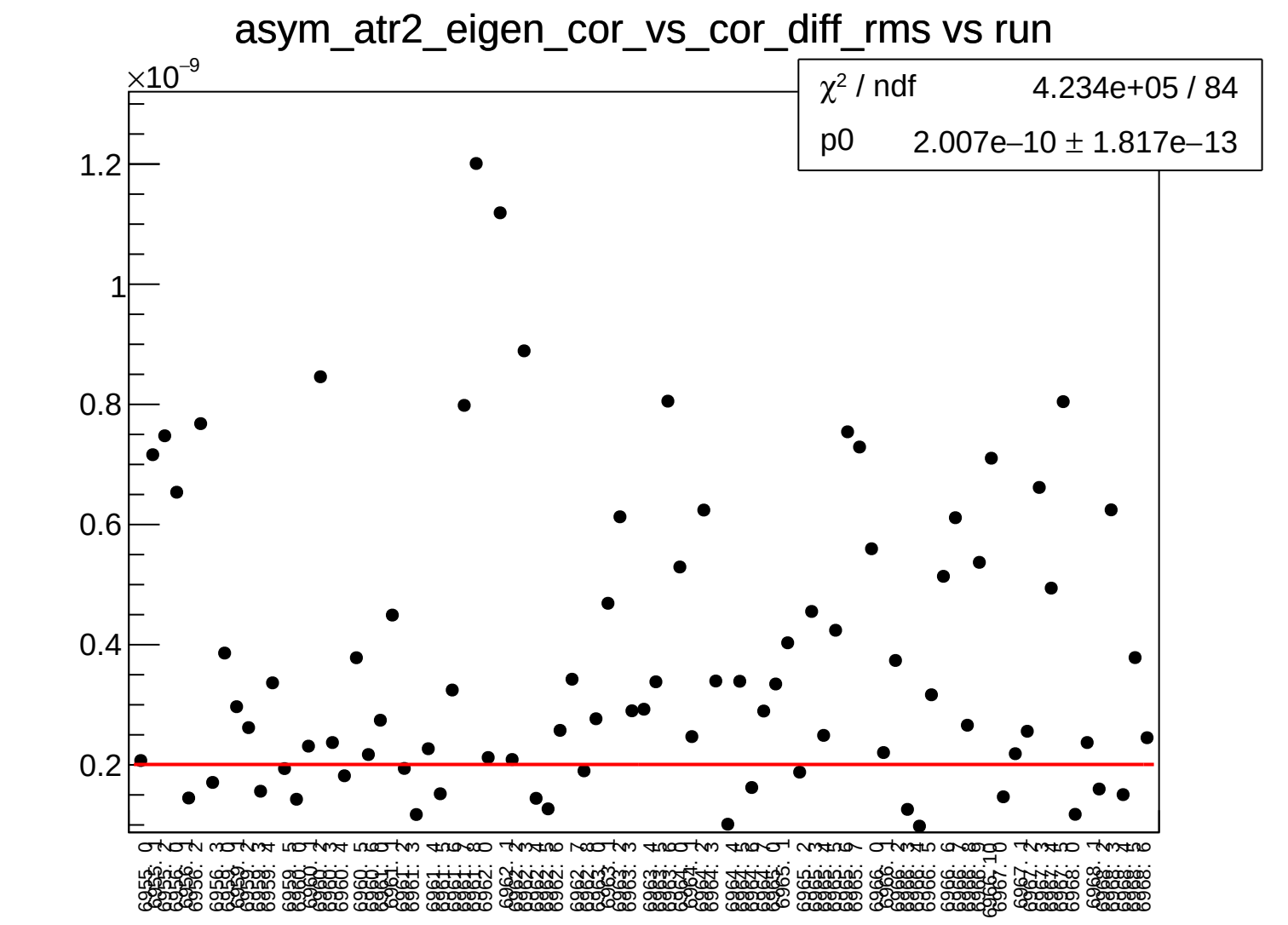

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.435e+04 / 84
p0 675.5 ± 0.5294
950
900
850
800
750
700
650
600
550

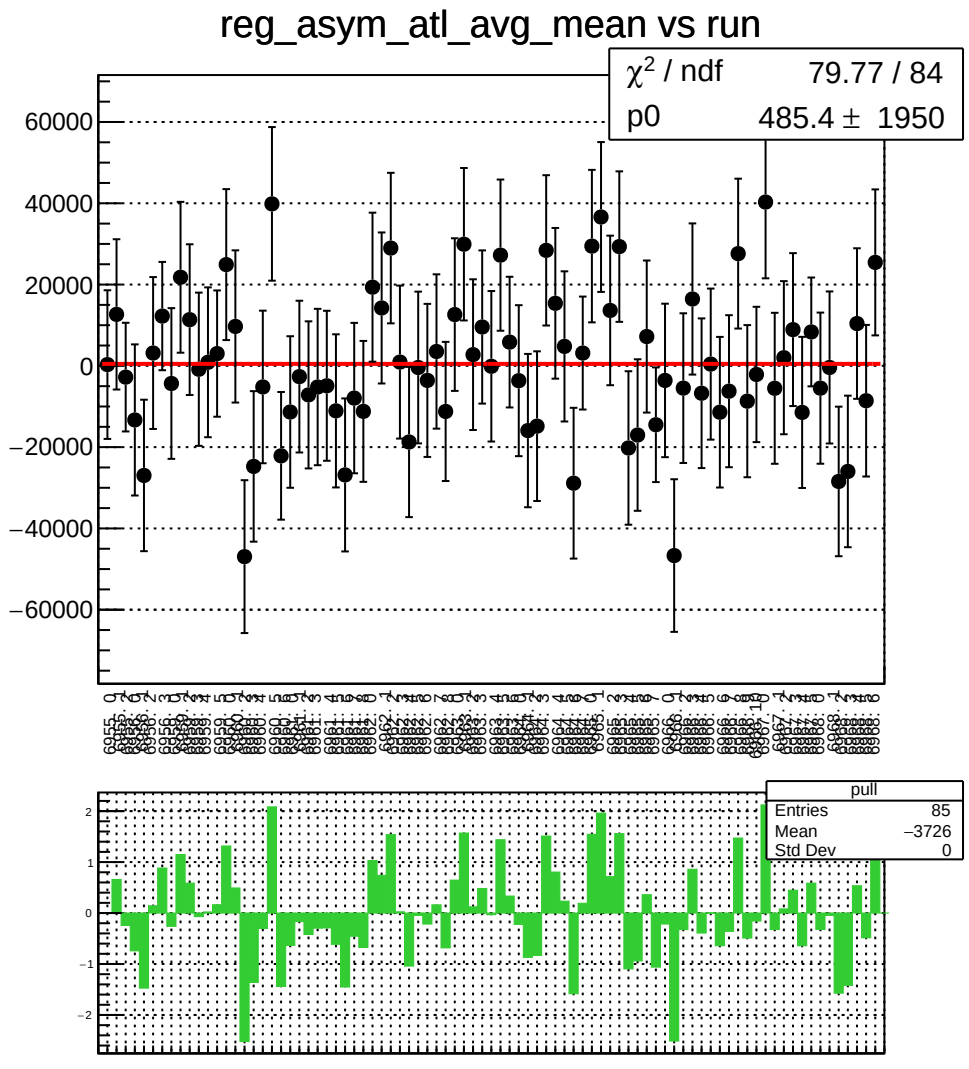

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.15 / 84
p0 −0.8137 ± 0.7486
pull
Entries 85
Mean 140.9
Std Dev 0

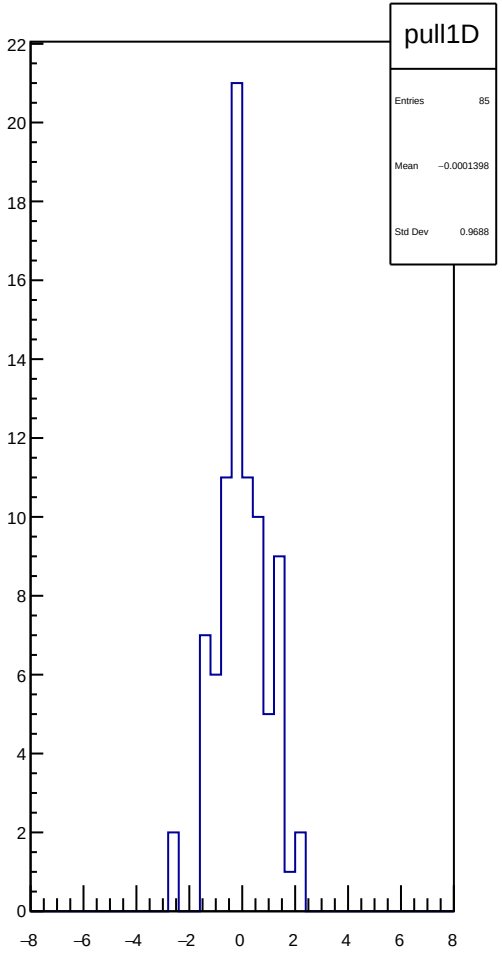

pull1D
Entries 85
Mean −0.01586
Std Dev 0.9949

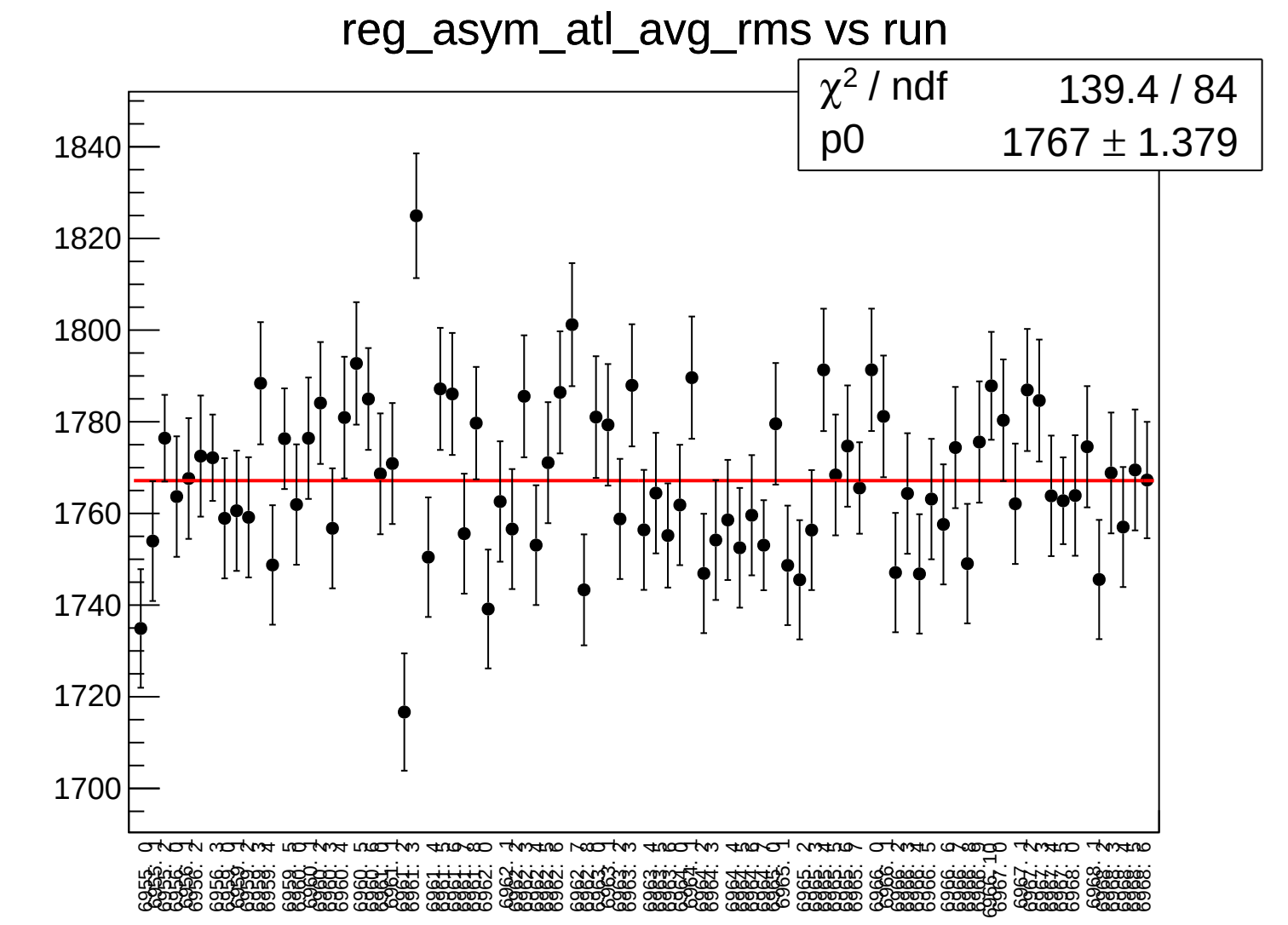

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.435e+04 / 84
p0 675.5 ± 0.5294
950
900
850
800
750
700
650
600
550

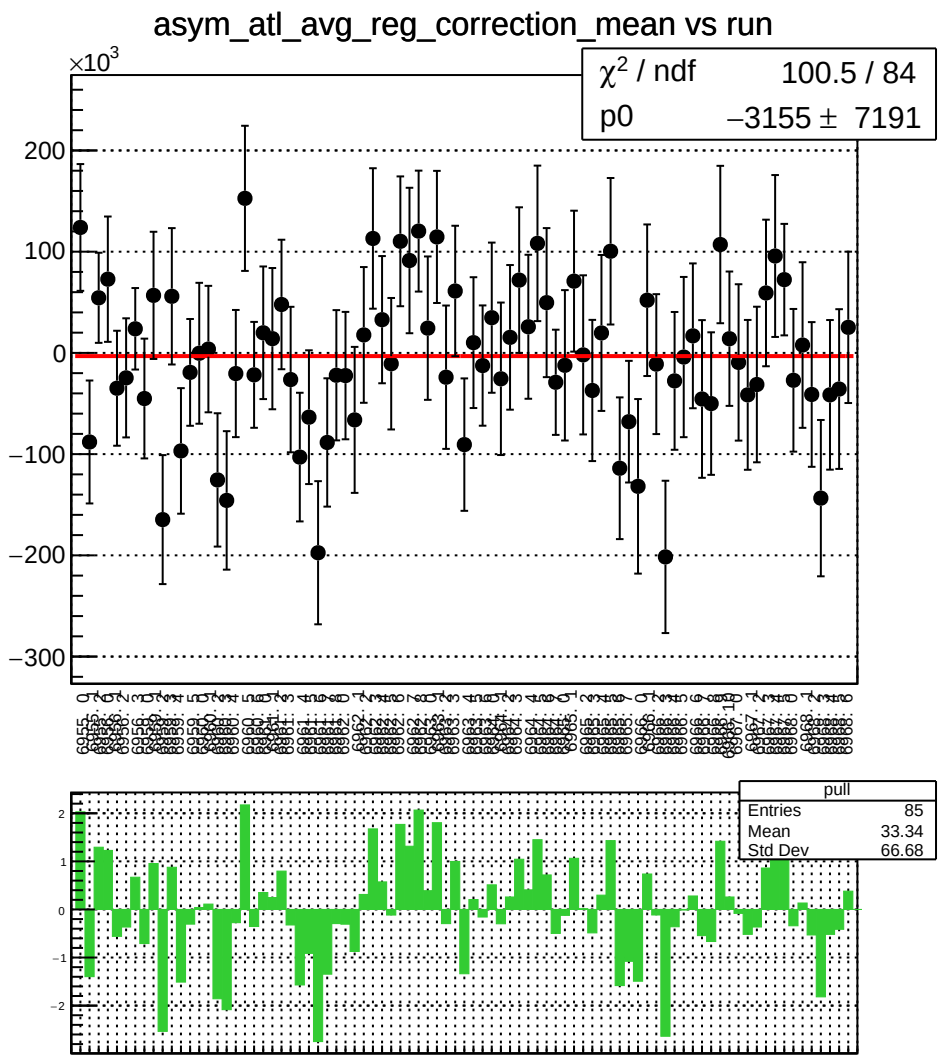

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.87 / 84
p0 5.47e−14 ± 2.57e−13
pull
Entries 85
Mean 136.8
Std Dev 0
pull1D
Entries 85
Mean −0.01742
Std Dev 0.9631

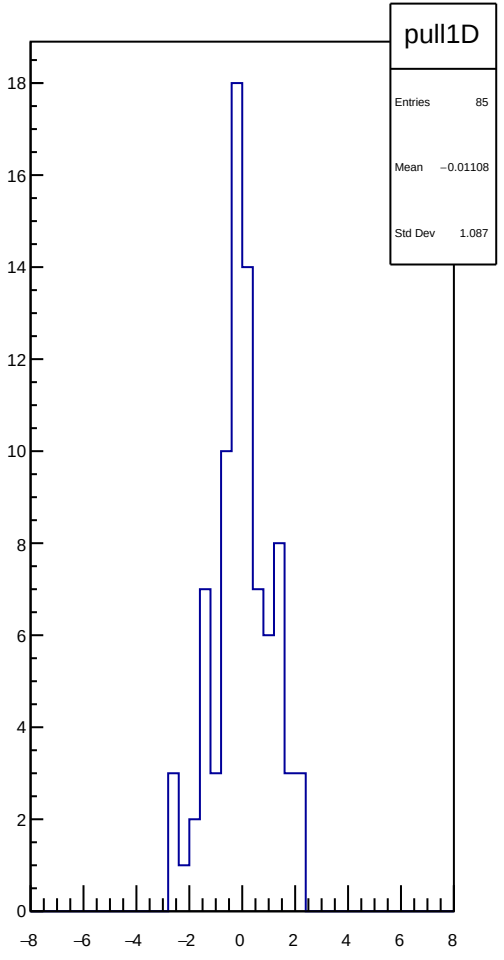

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.234e+05 / 84
p0 2.007e−10 ± 1.817e−13
1.2
1
0.8
0.6
0.4
0.2

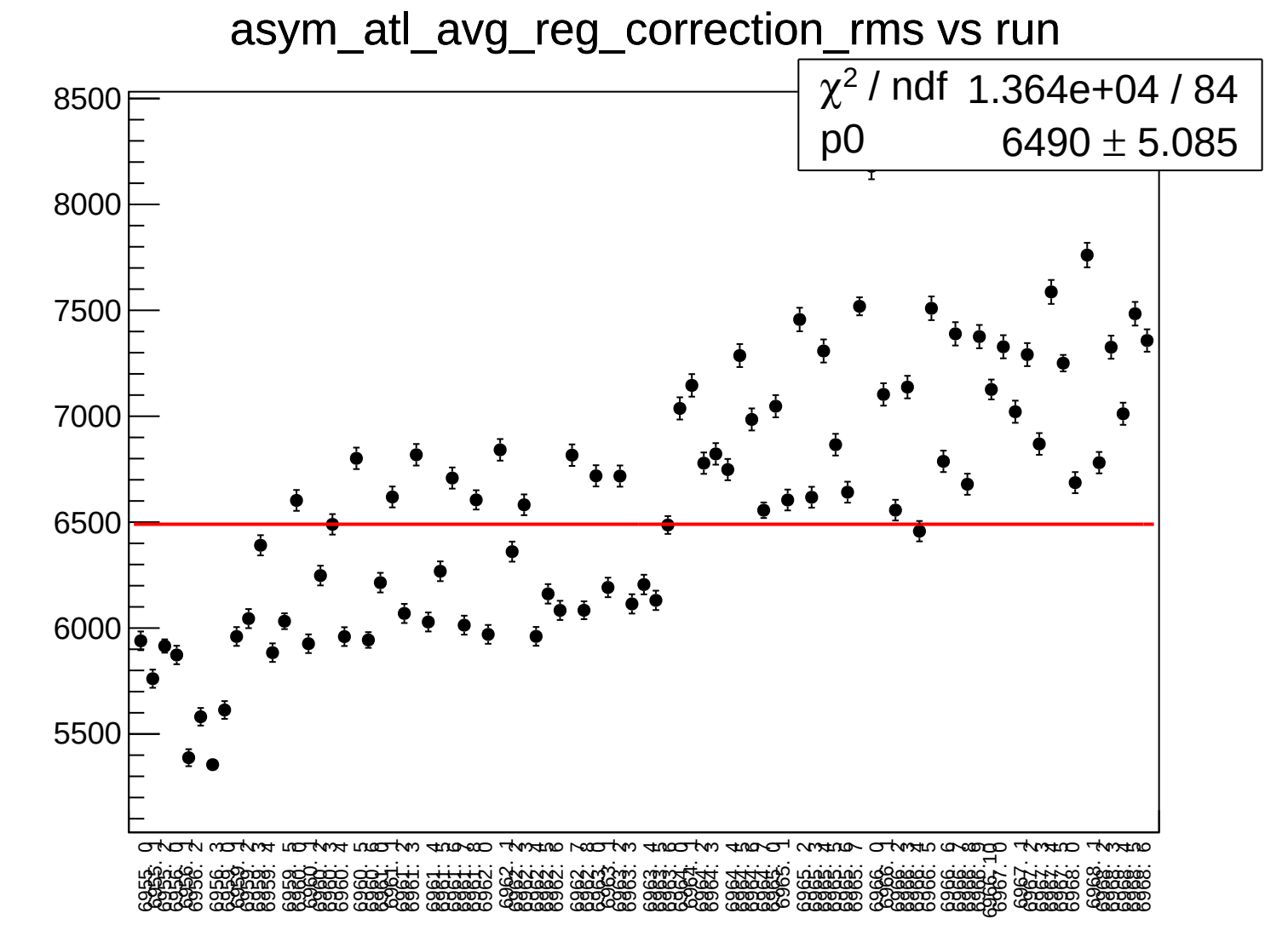

reg_asym_atl_avg_mean vs run
χ² / ndf 79.77 / 84
p0 485.4 ± 1950
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −3726
Std Dev 0
2
1
0
−1
−2

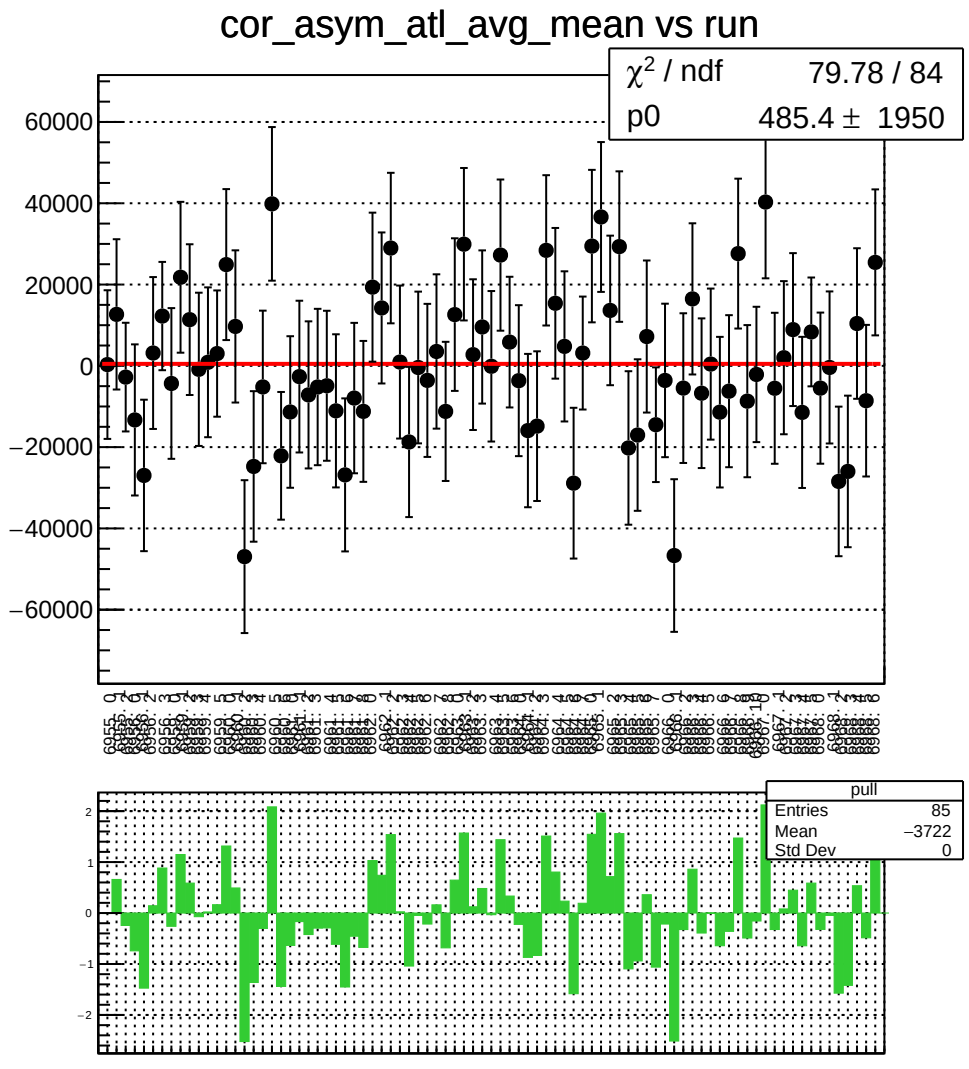

pull1D
Entries 85
Mean −0.0001398
Std Dev 0.9688
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

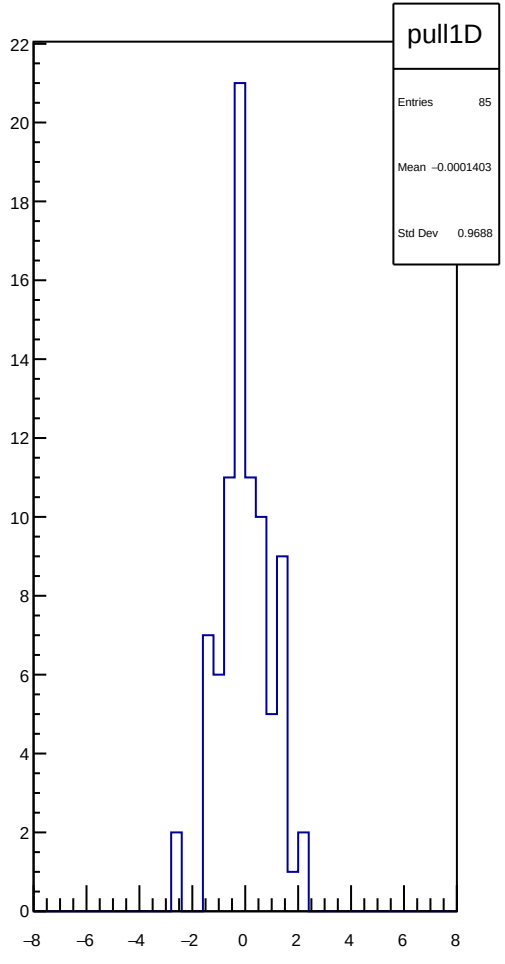

reg_asym_atl_avg_rms vs run
$\chi^2$ / ndf 139.4 / 84
p0 1767 ± 1.379
1840
1820
1800
1780
1760
1740
1720
1700

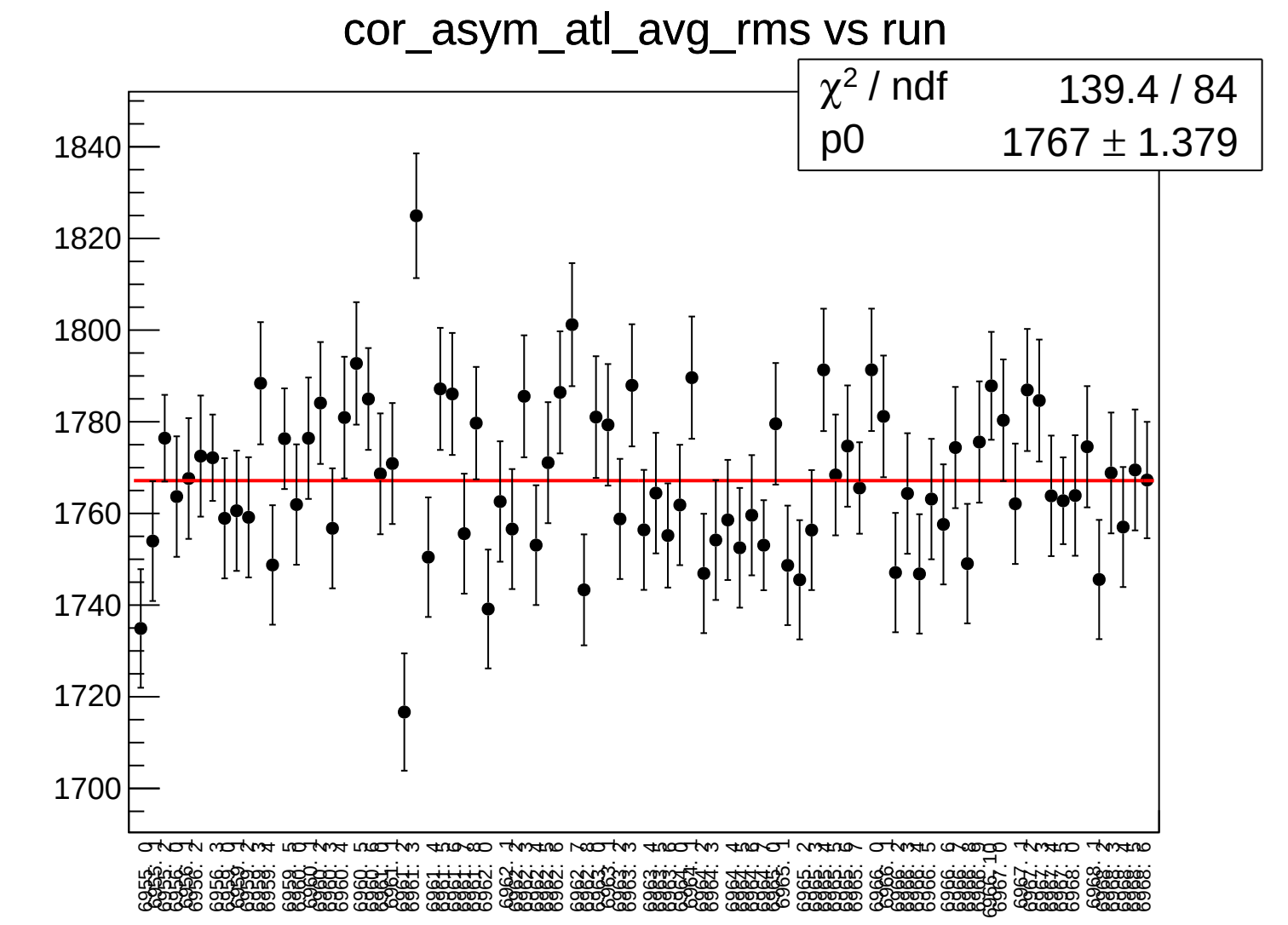

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 100.5 / 84
p0 −3155 ± 7191
×10³
pull
Entries 85
Mean 33.34
Std Dev 66.68

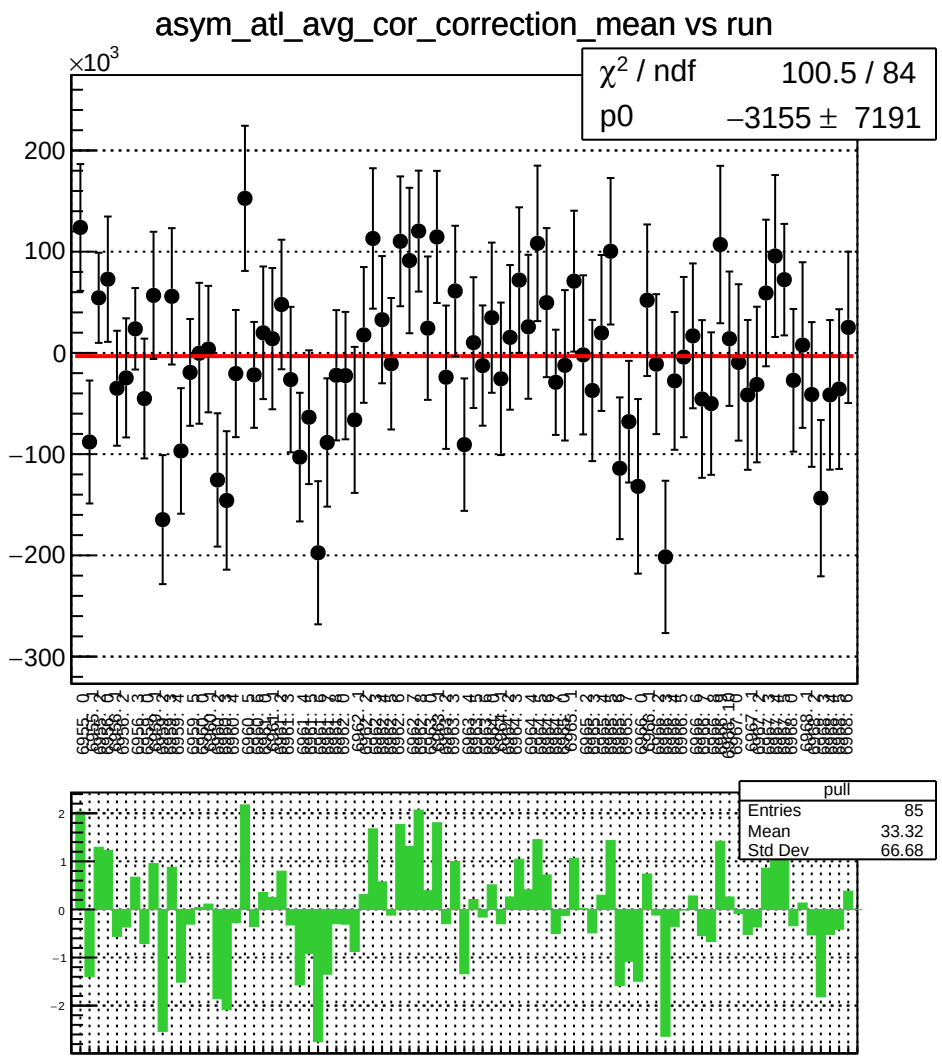

pull1D
Entries 85
Mean −0.01108
Std Dev 1.087

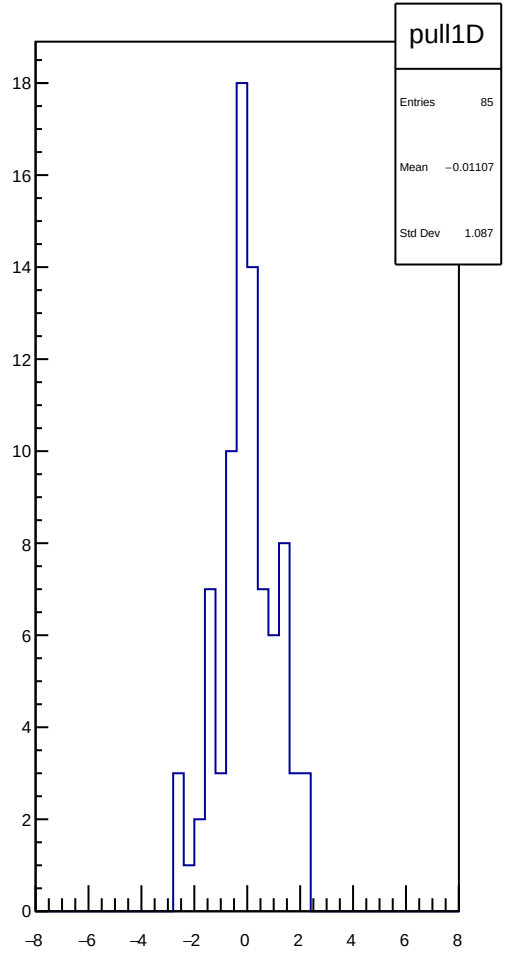

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.364e+04 / 84
p0 6490 ± 5.085
8500
8000
7500
7000
6500
6000
5500

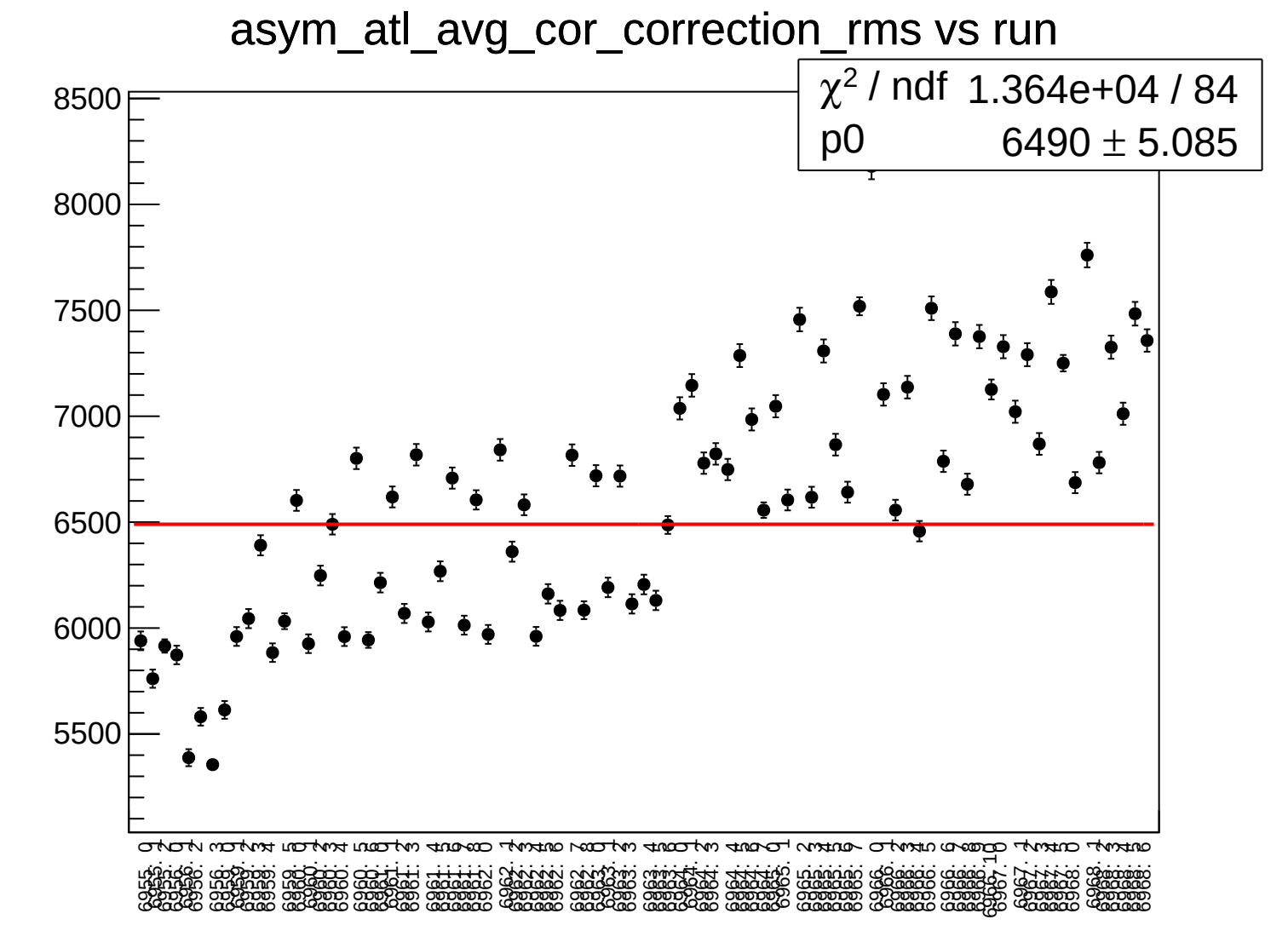

cor_asym_atl_avg_mean vs run
χ² / ndf 79.78 / 84
p0 485.4 ± 1950
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −3722
Std Dev 0
2
1
0
−1
−2

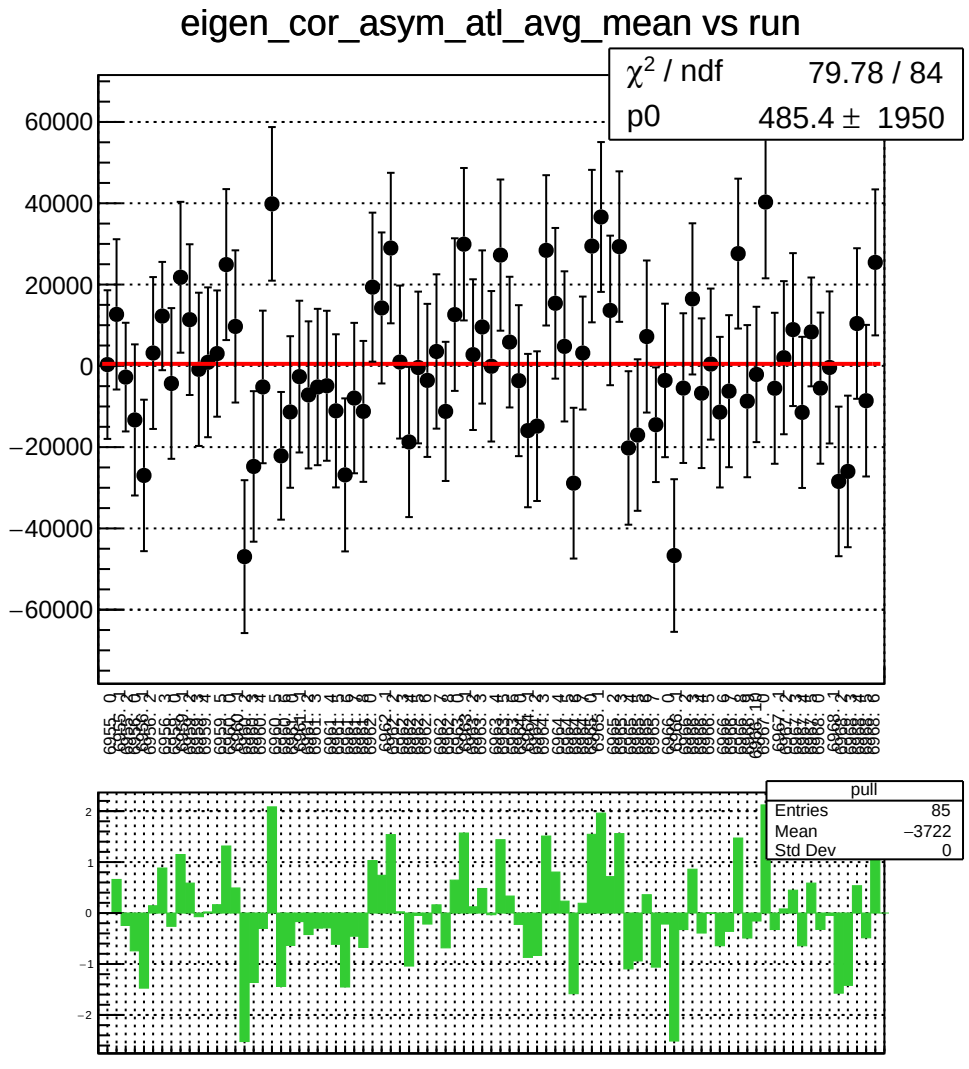

pull1D
Entries 85
Mean −0.0001403
Std Dev 0.9688
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

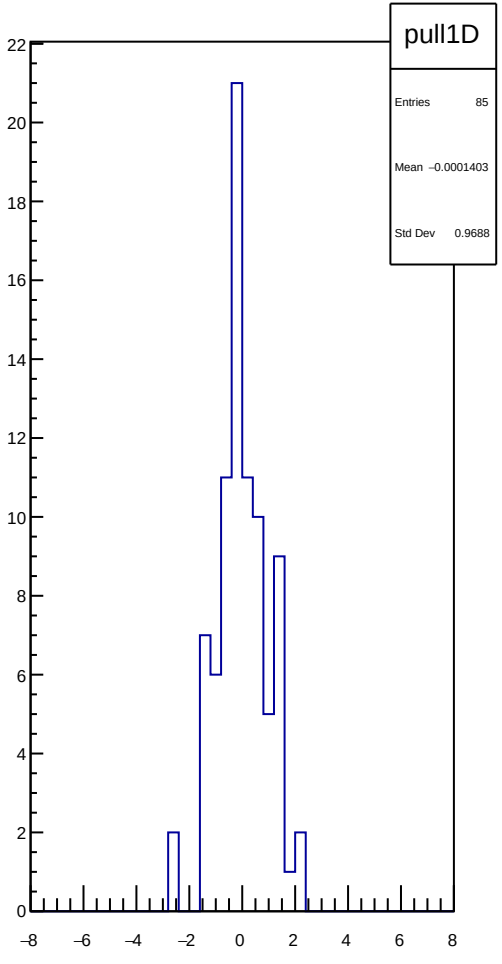

cor_asym_atl_avg_rms vs run
$\chi^2$ / ndf 139.4 / 84
p0 1767 ± 1.379
1840
1820
1800
1780
1760
1740
1720
1700

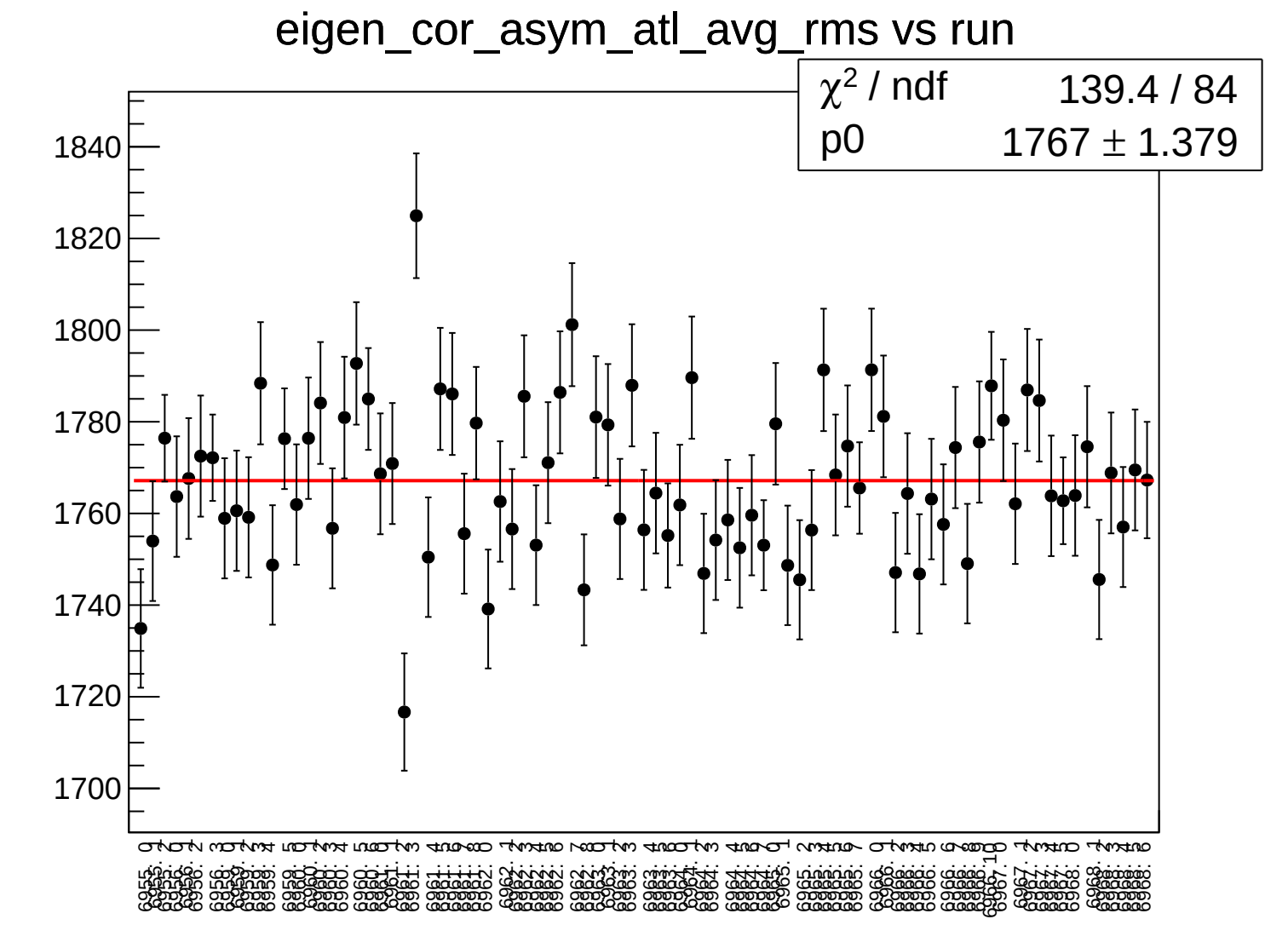

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 100.5 / 84
p0 −3155 ± 7191
×10³
pull
Entries 85
Mean 33.32
Std Dev 66.68

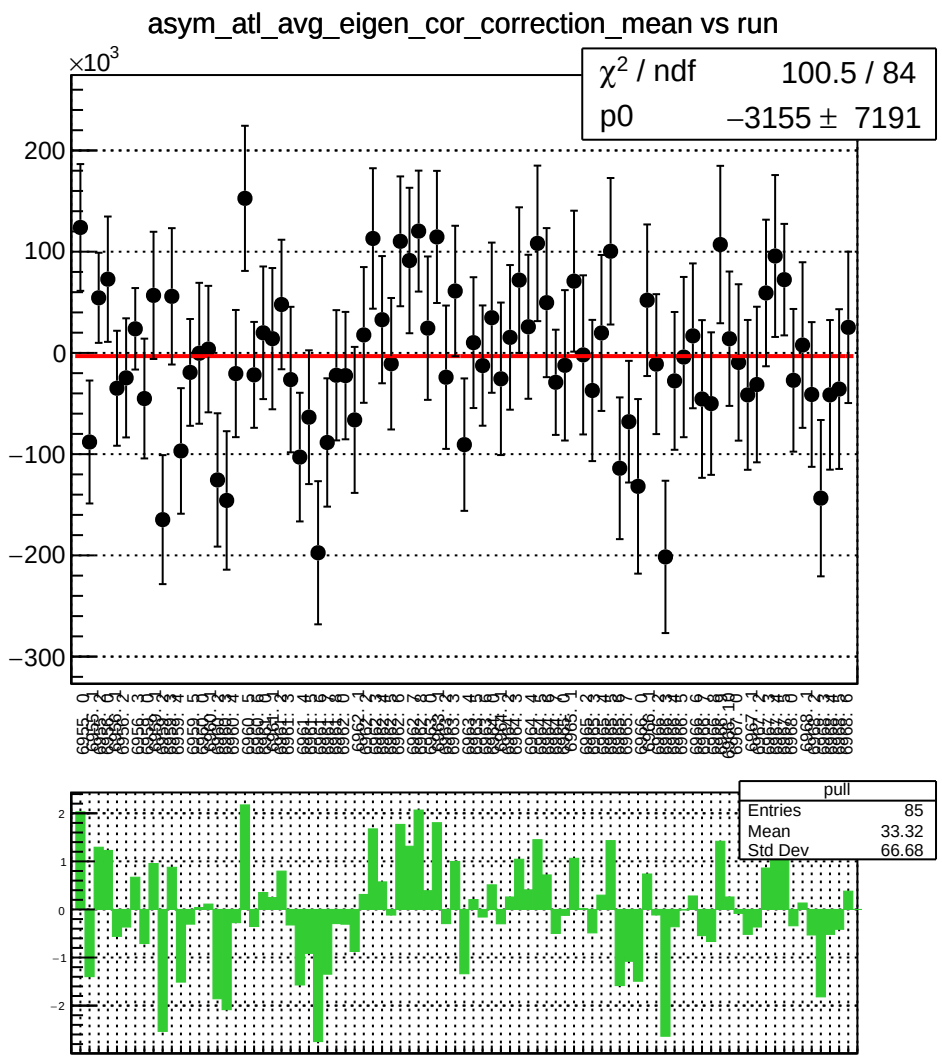

pull1D
Entries 85
Mean −0.01107
Std Dev 1.087

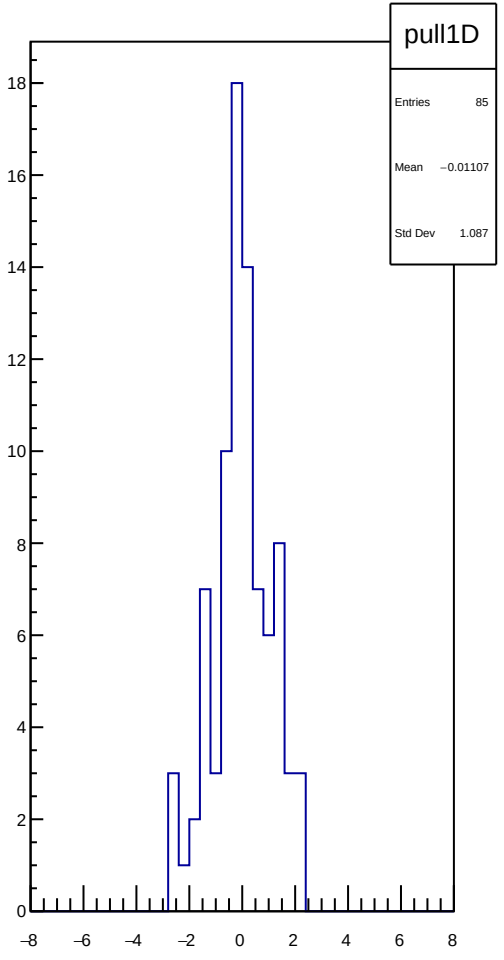

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.364e+04 / 84
p0 6490 ± 5.085
8500
8000
7500
7000
6500
6000
5500

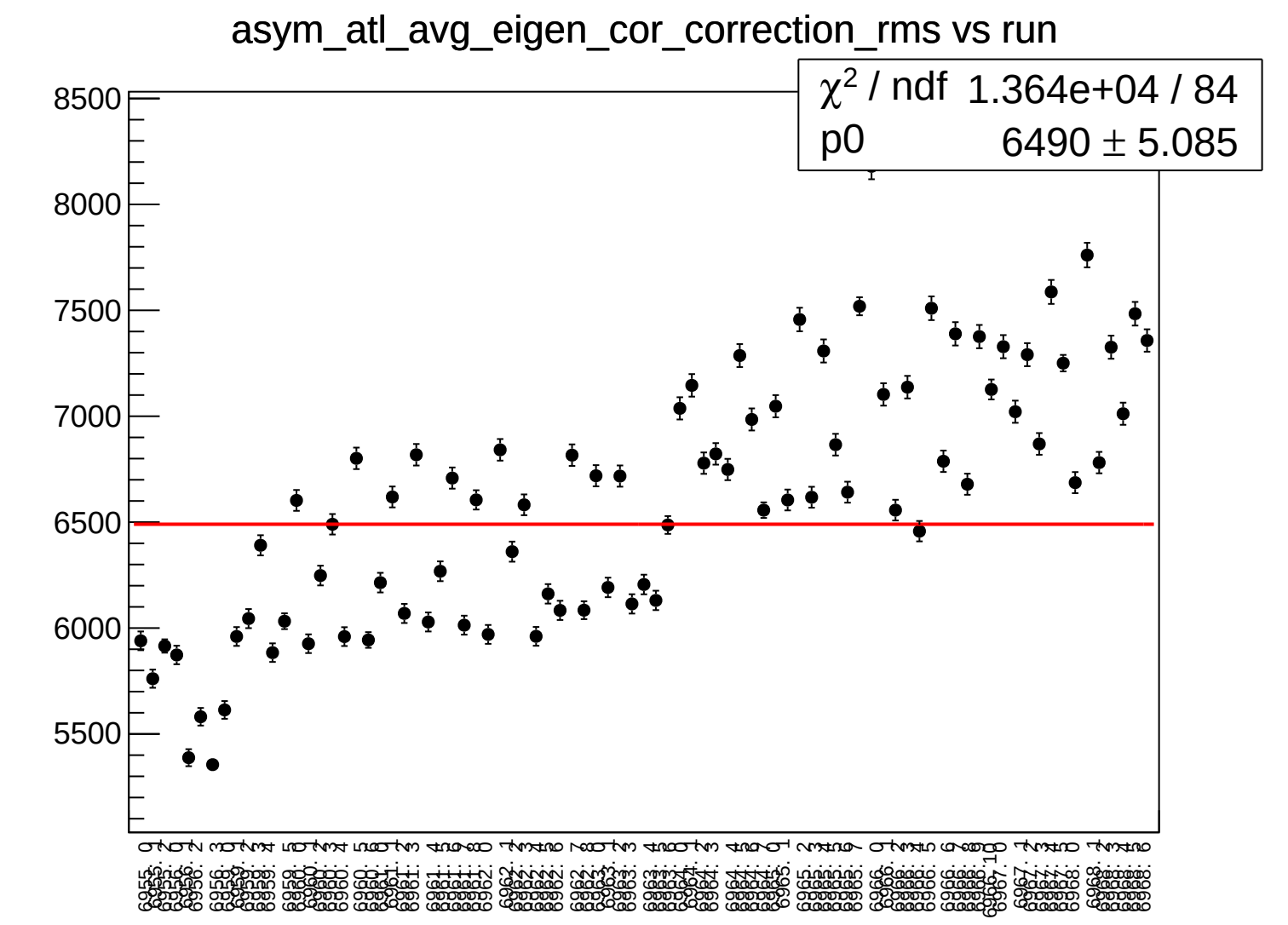

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 79.78 / 84
p0 485.4 ± 1950
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −3722
Std Dev 0
2
1
0
−1
−2

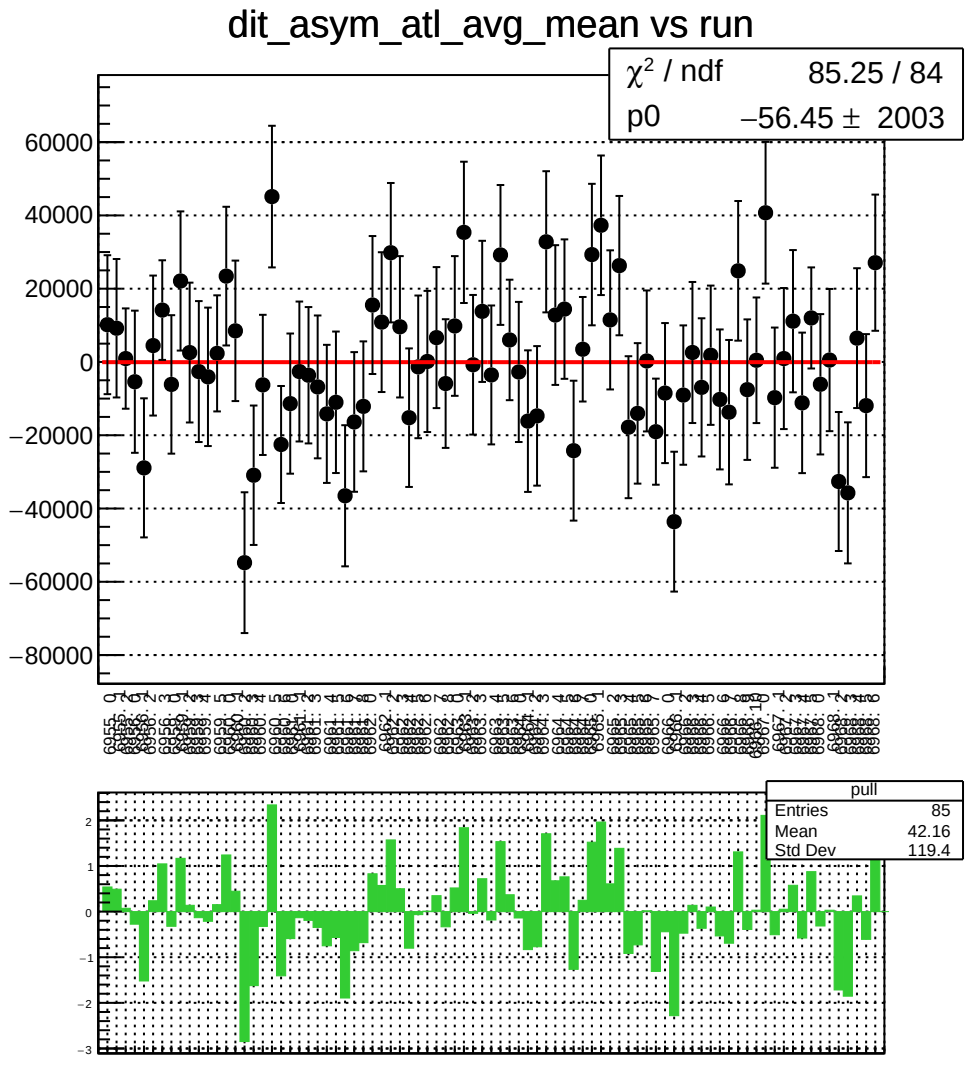

pull1D
Entries 85
Mean −0.0001403
Std Dev 0.9688
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

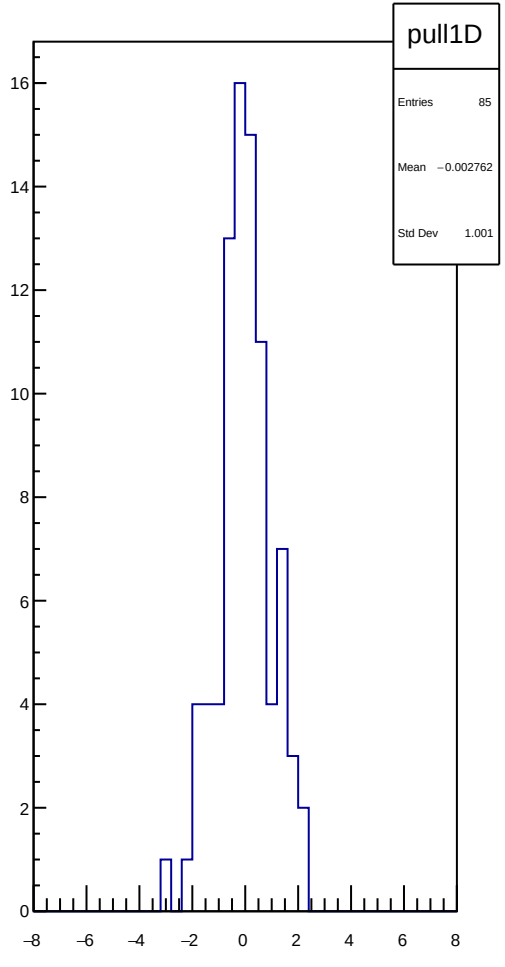

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 139.4 / 84
p0 1767 ± 1.379
1840
1820
1800
1780
1760
1740
1720
1700

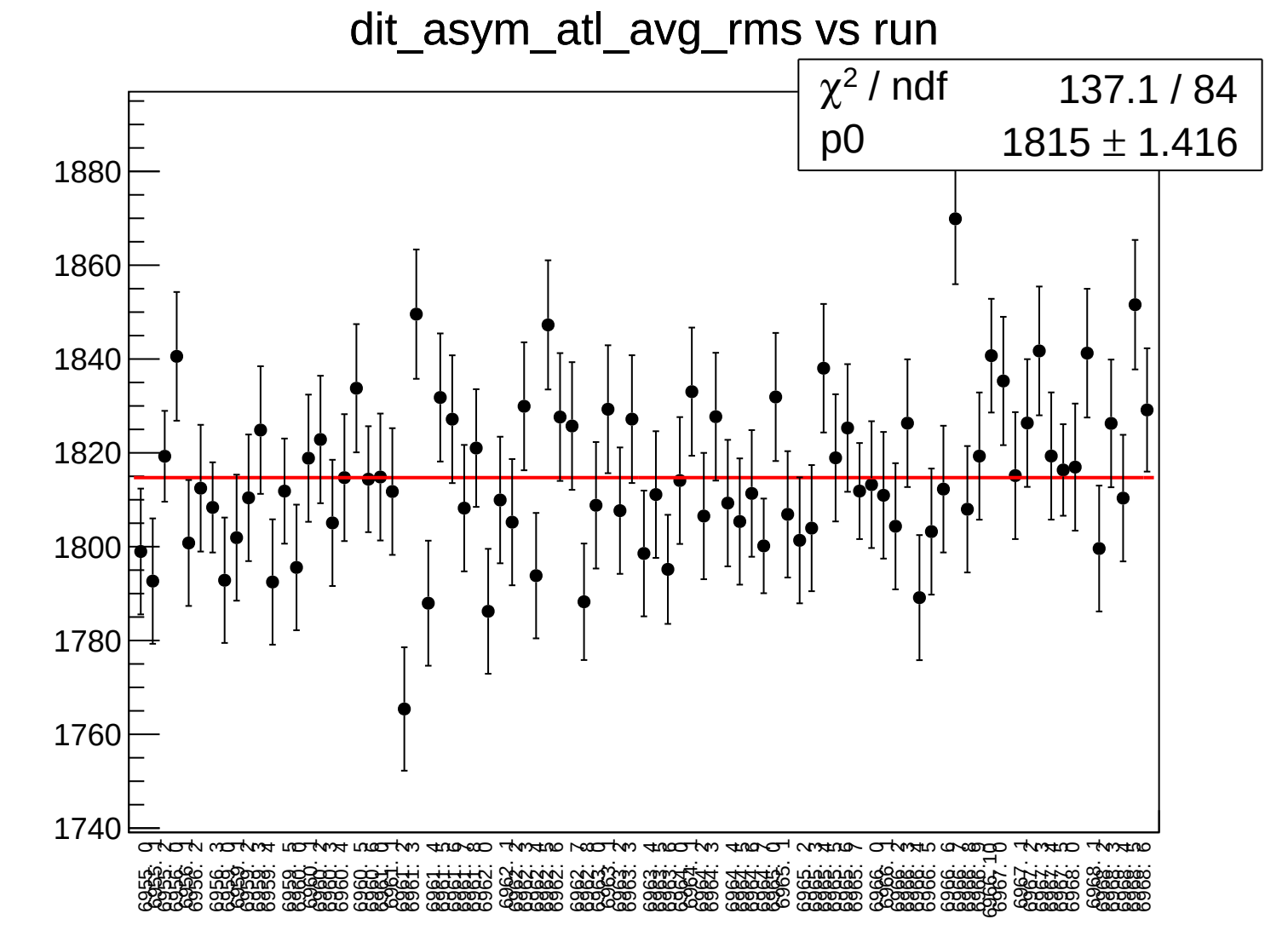

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.5 / 84
p0 −3155 ± 7191
×10³
pull
Entries 85
Mean 33.32
Std Dev 66.68

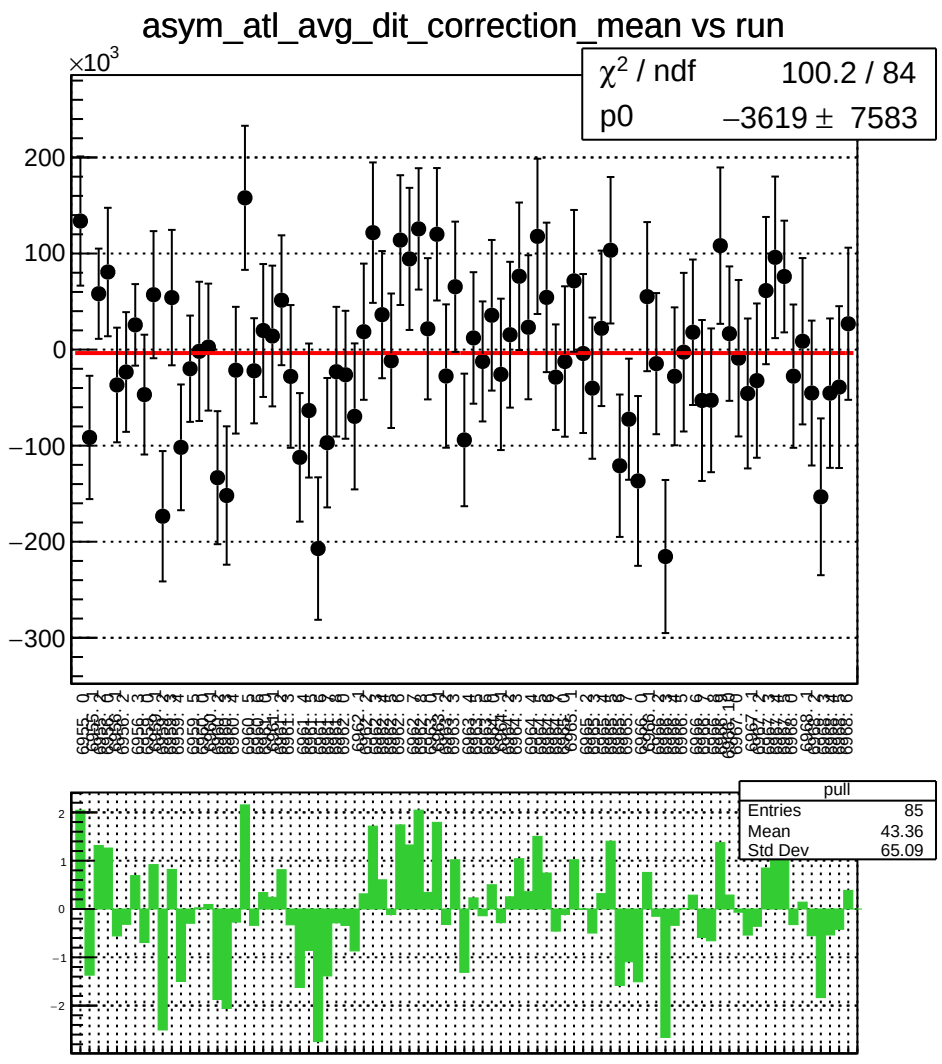

pull1D
Entries 85
Mean −0.01107
Std Dev 1.087

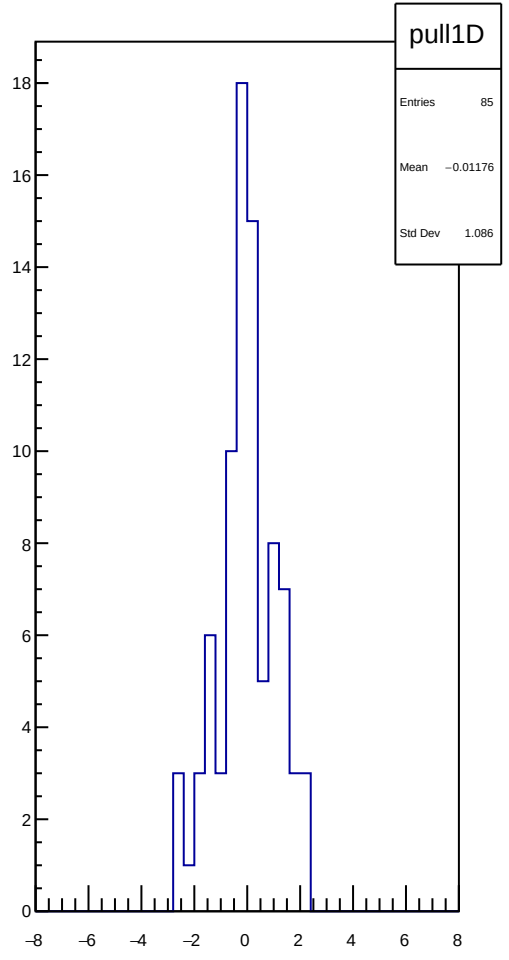

asym_atl_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 1.364e+04 / 84
p0 6490 ± 5.085
8500
8000
7500
7000
6500
6000
5500

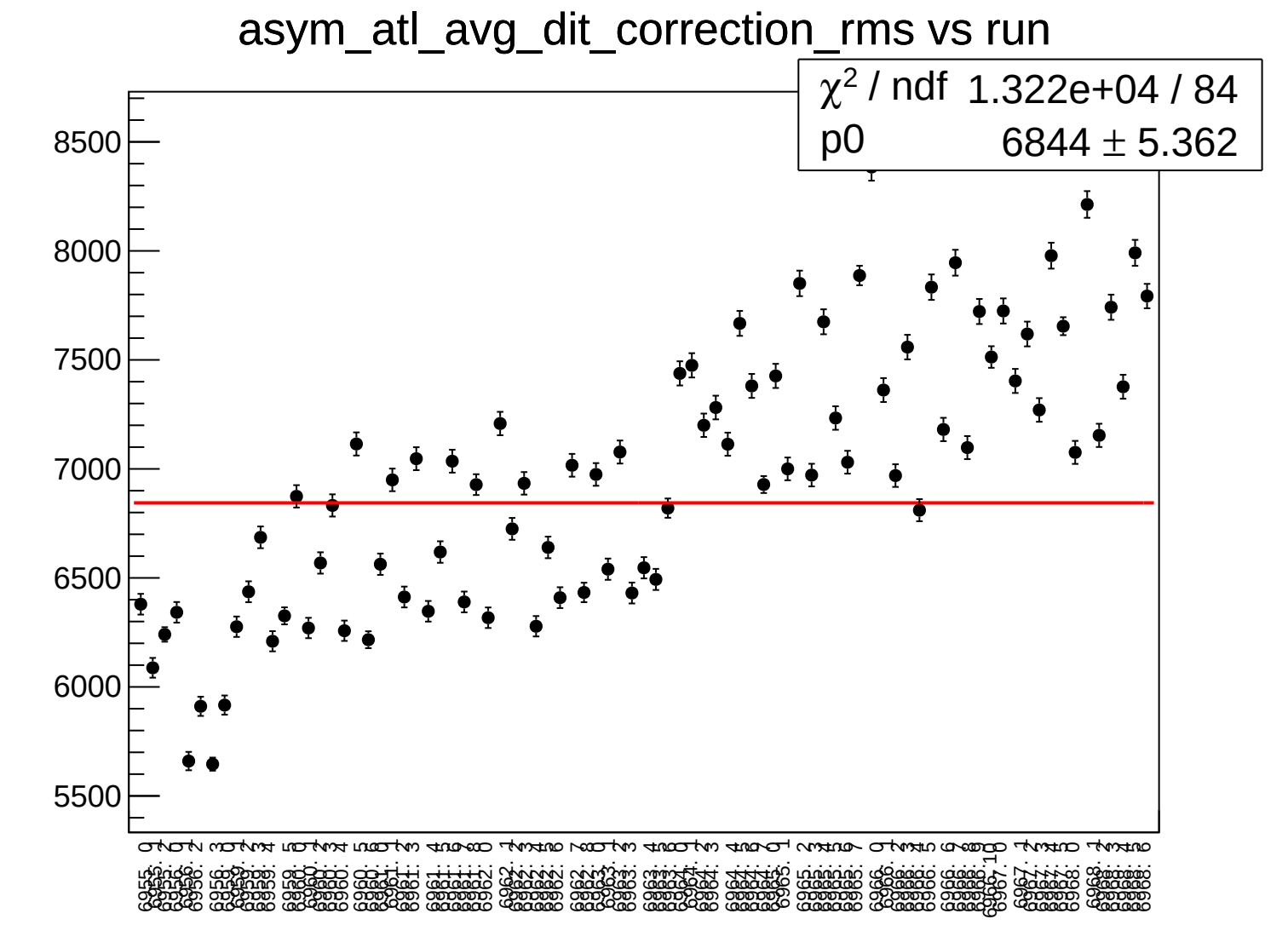

dit_asym_atl_avg_mean vs run
χ² / ndf 85.25 / 84
p0 −56.45 ± 2003
pull
Entries 85
Mean 42.16
Std Dev 119.4

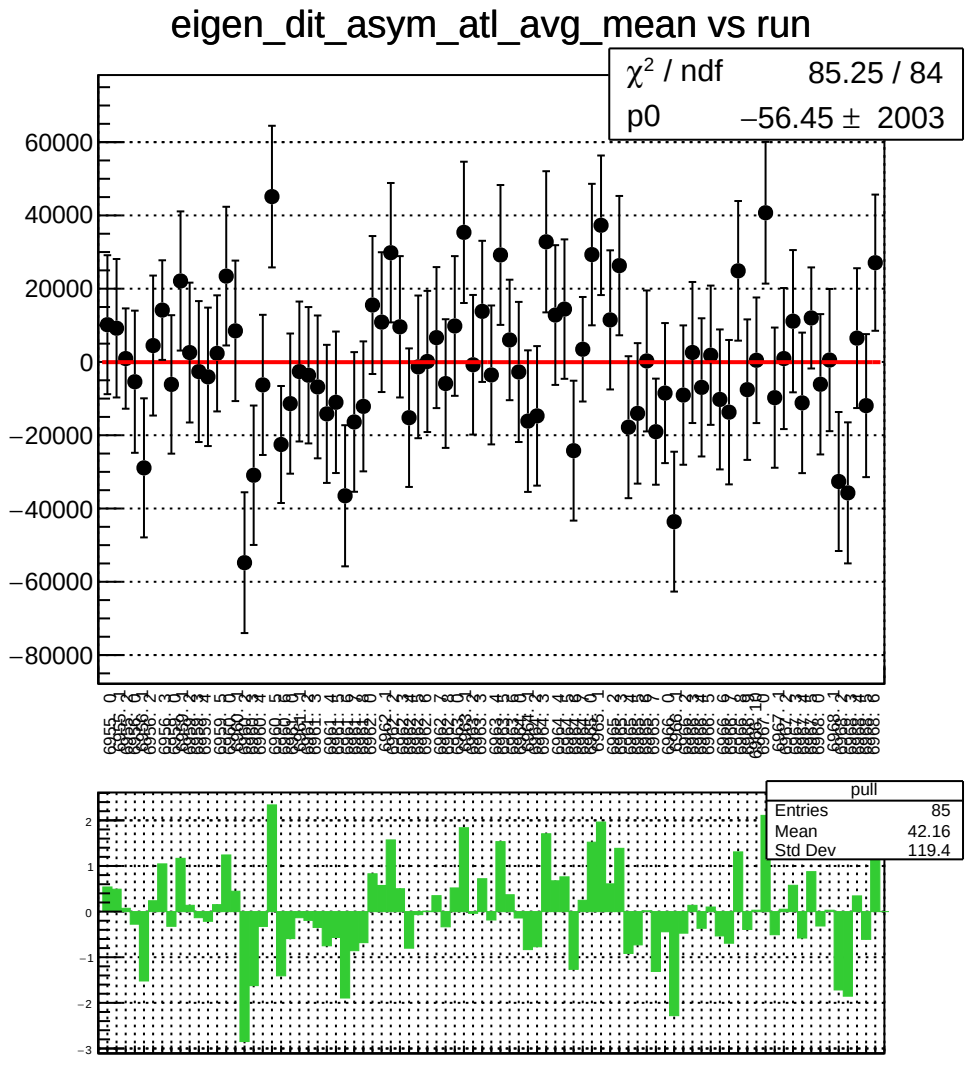

pull1D
Entries 85
Mean −0.002762
Std Dev 1.001

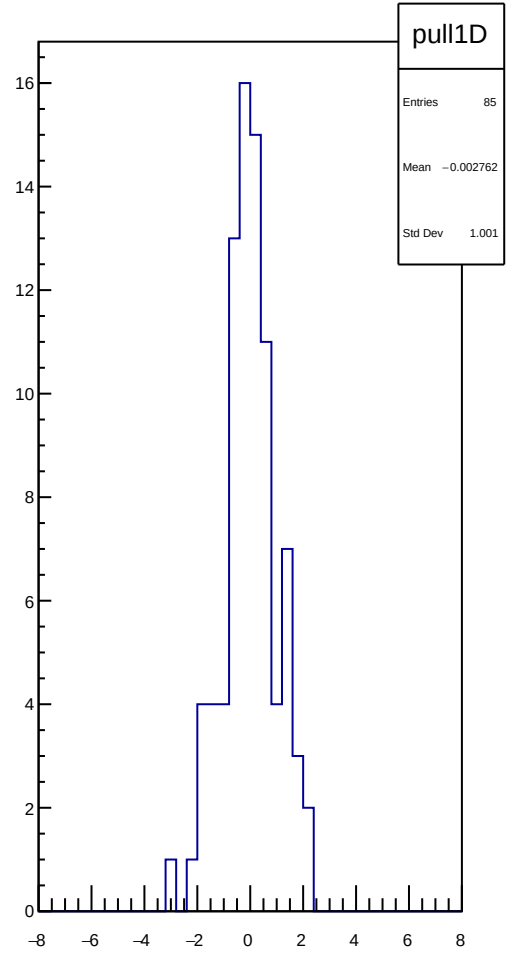

dit_asym_atl_avg_rms vs run
χ² / ndf 137.1 / 84
p0 1815 ± 1.416
1880
1860
1840
1820
1800
1780
1760
1740

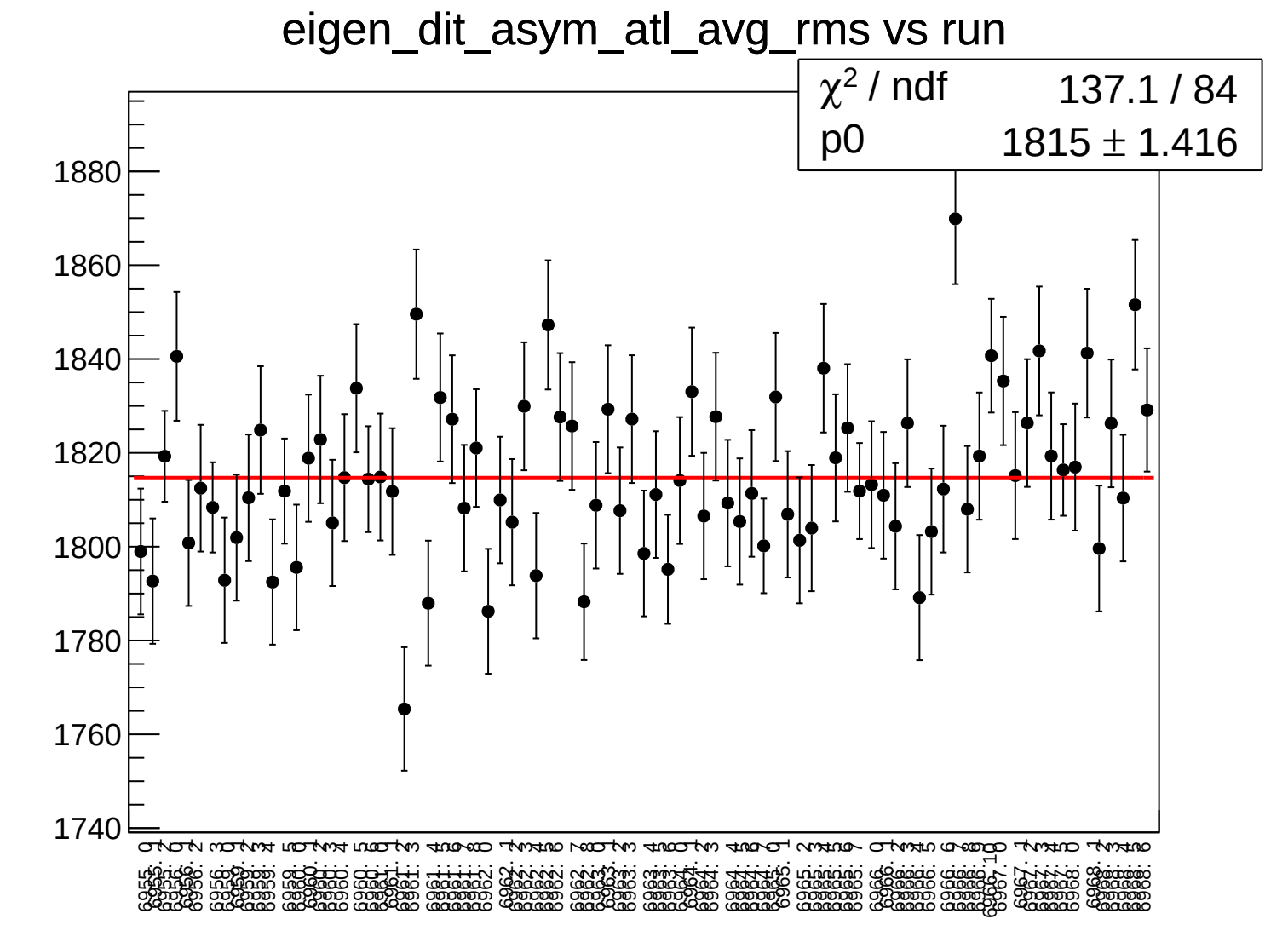

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 100.2 / 84
p0 −3619 ± 7583
200
100
0
−100
−200
−300
pull
Entries 85
Mean 43.36
Std Dev 65.09
2
1
0
−1
−2

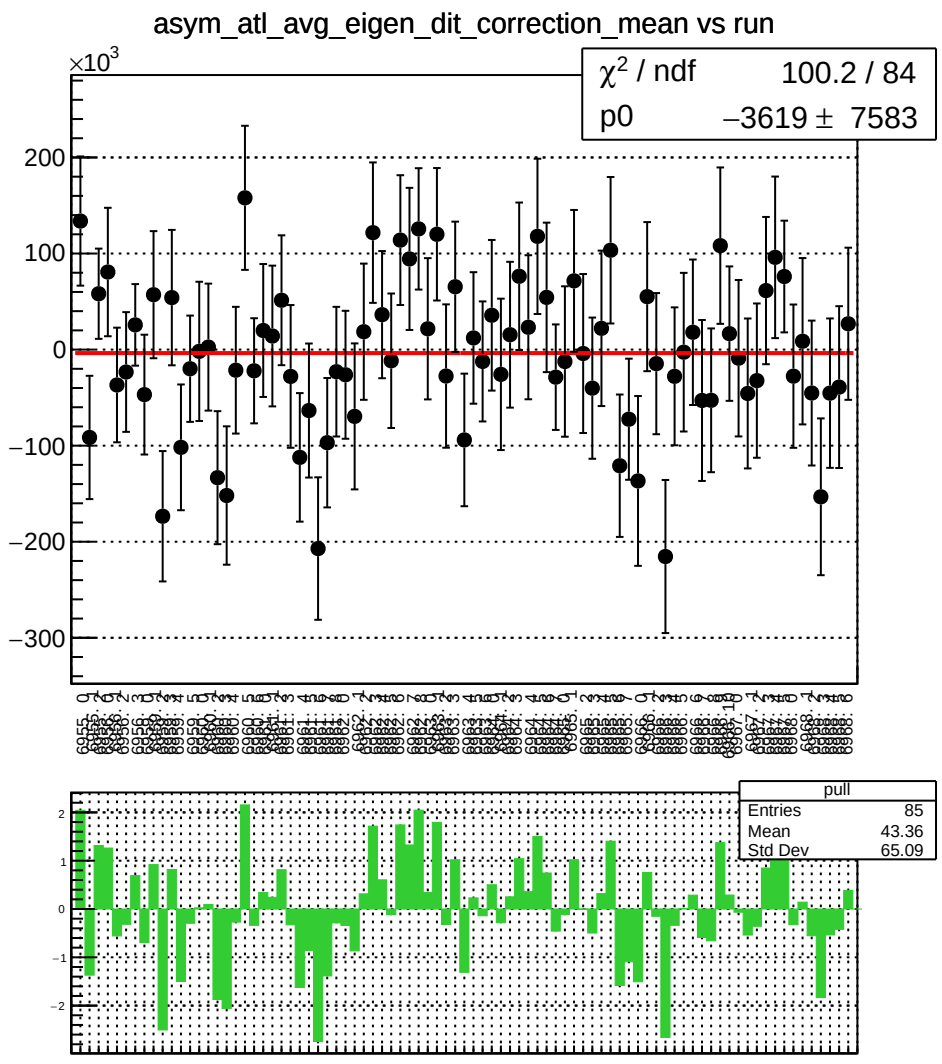

pull1D
Entries 85
Mean −0.01176
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

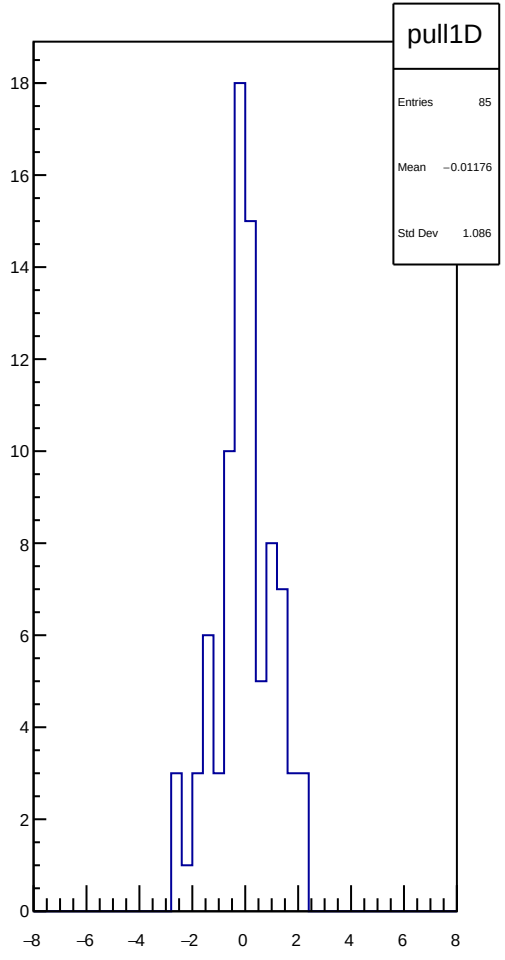

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1.322e+04 / 84
p0 6844 ± 5.362
8500
8000
7500
7000
6500
6000
5500

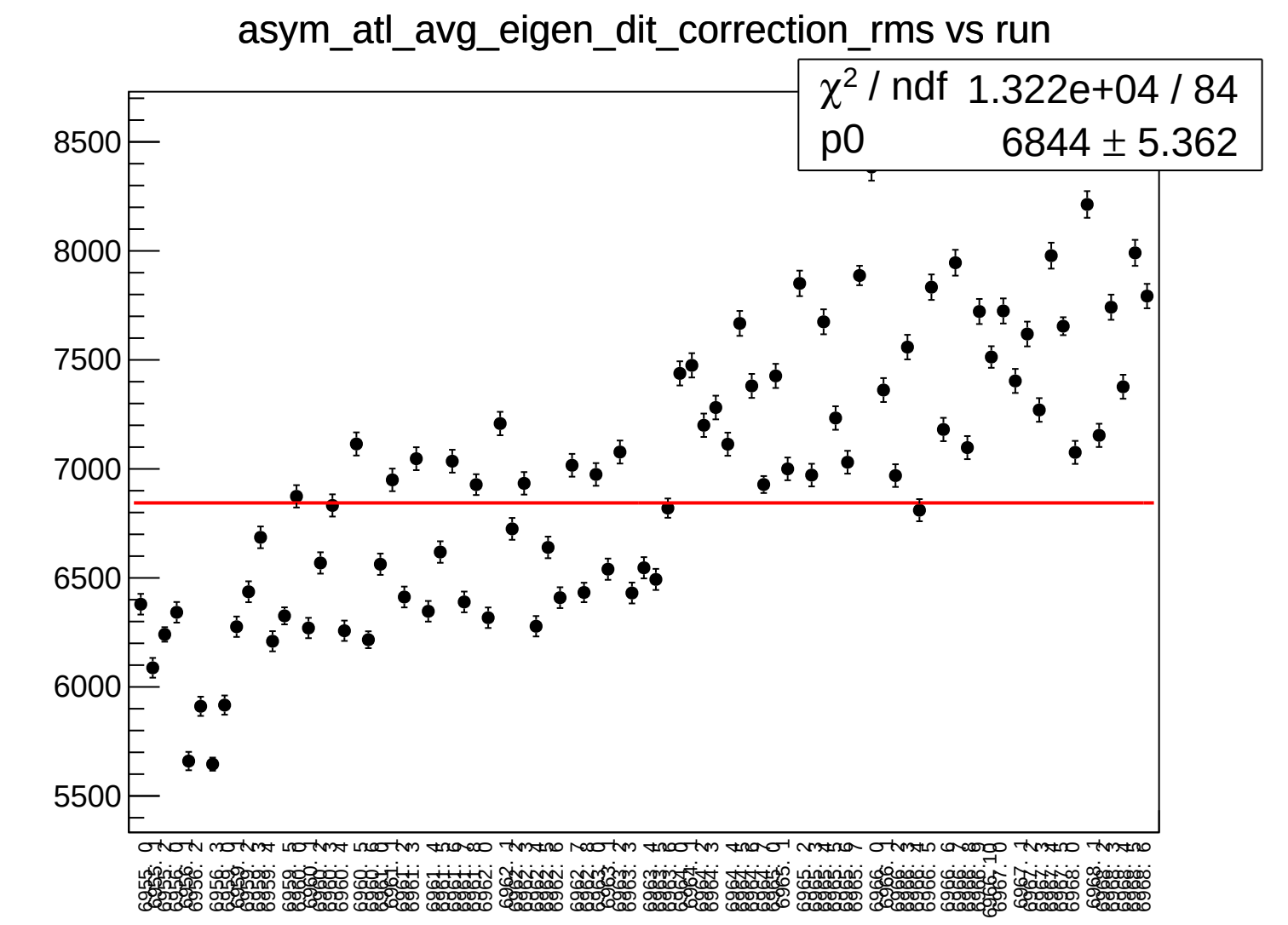

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 85.25 / 84
p0 −56.45 ± 2003
pull
Entries 85
Mean 42.16
Std Dev 119.4

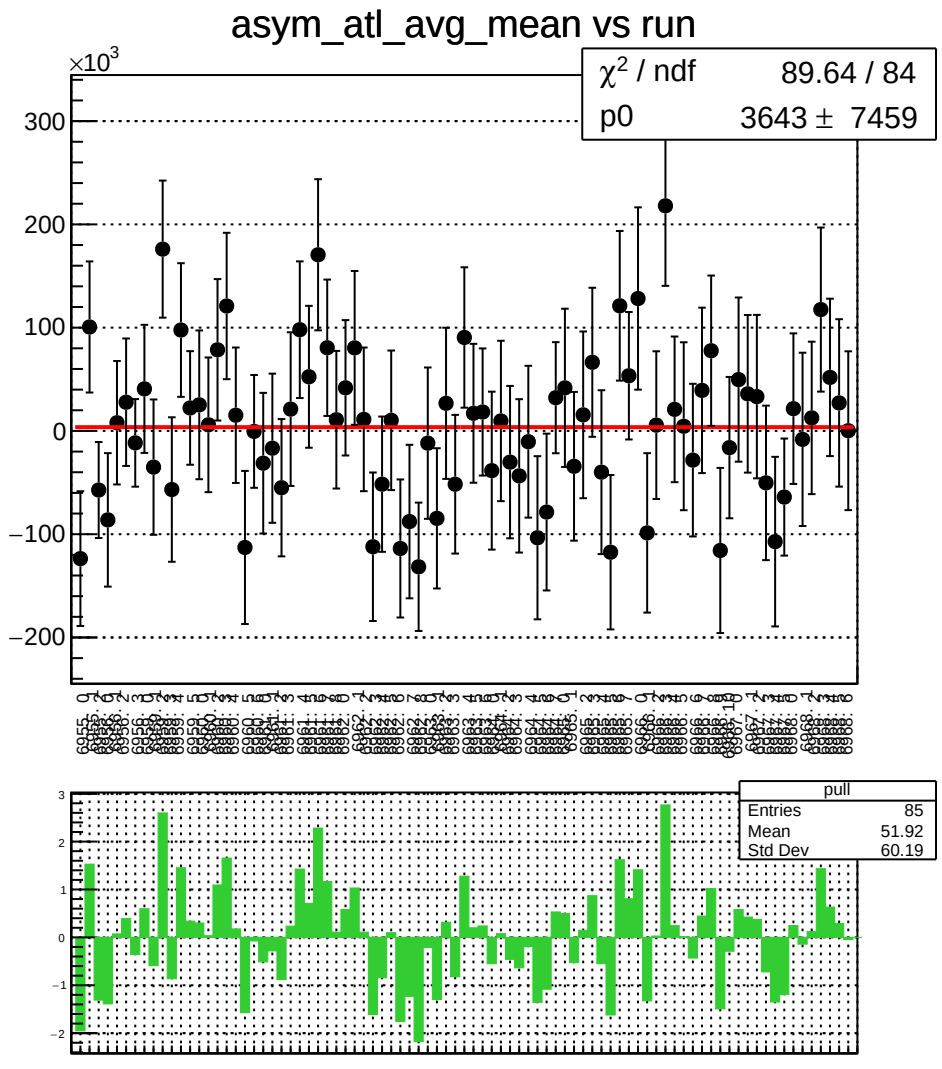

pull1D
Entries 85
Mean −0.002762
Std Dev 1.001

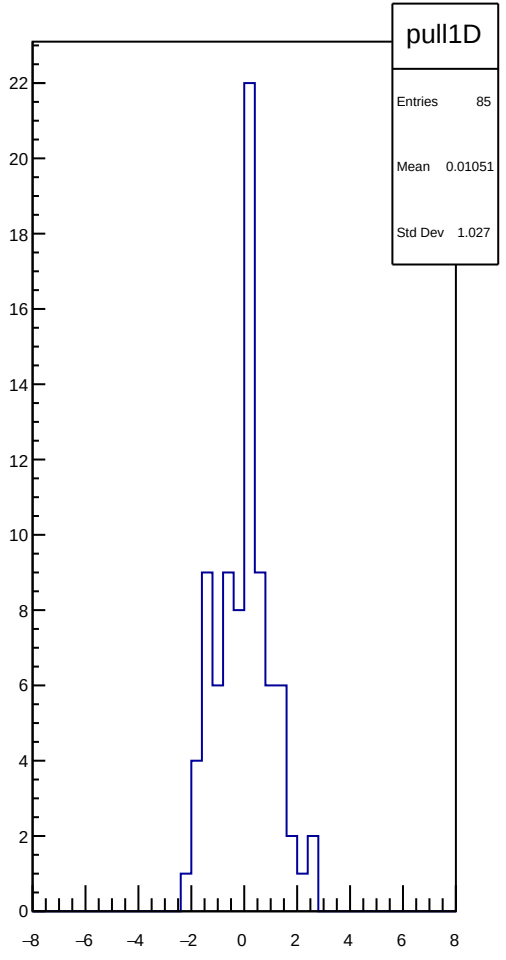

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 137.1 / 84
p0 1815 ± 1.416
1880
1860
1840
1820
1800
1780
1760
1740

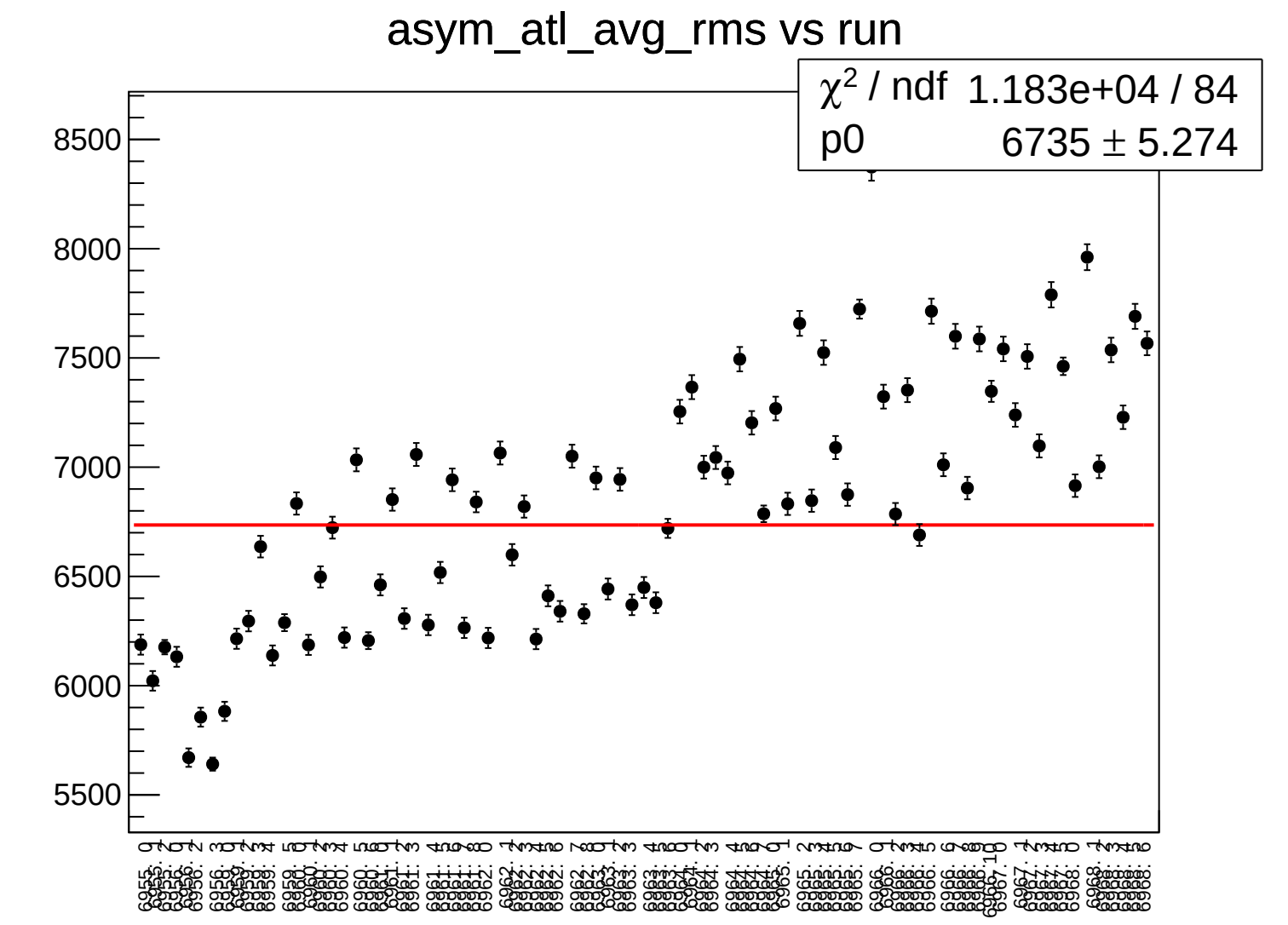

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.2 / 84
p0 −3619 ± 7583
200
100
0
−100
−200
−300
pull
Entries 85
Mean 43.36
Std Dev 65.09
2
1
0
−1
−2

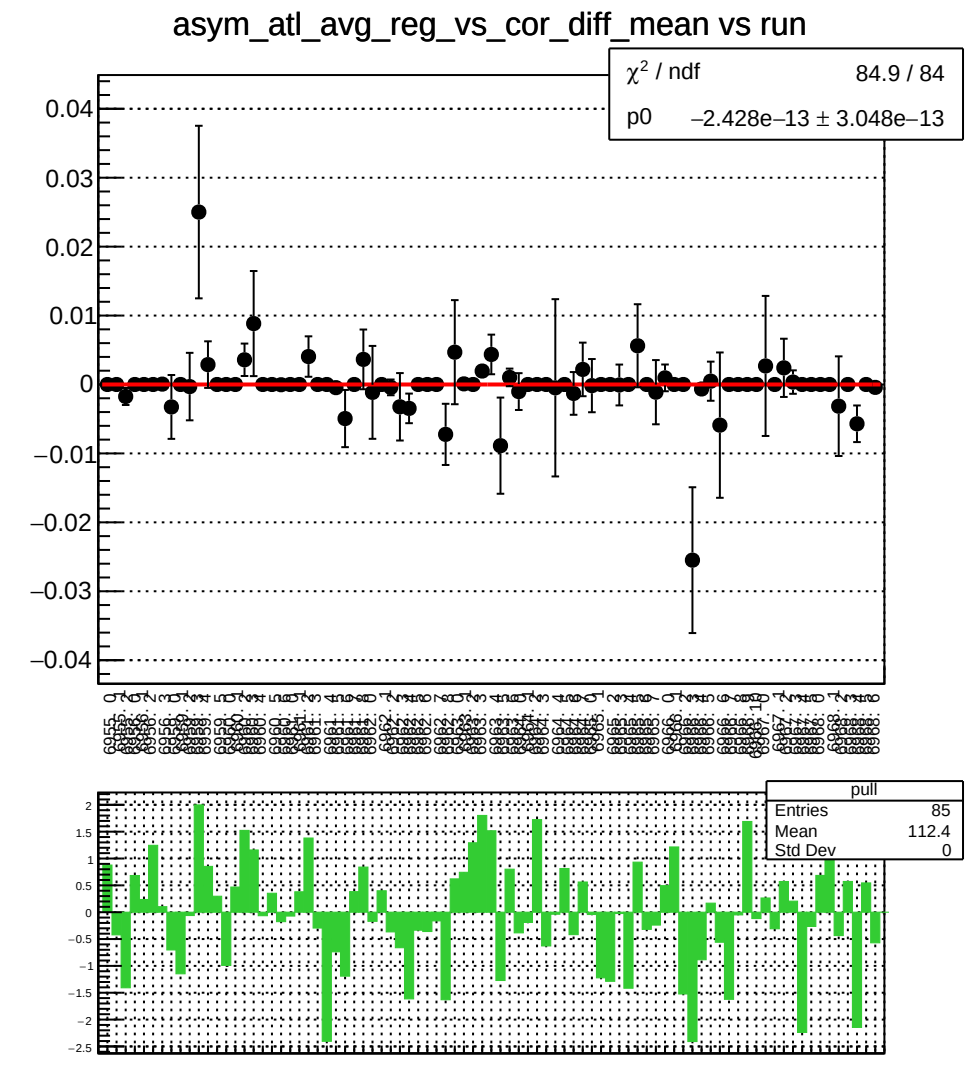

pull1D
Entries 85
Mean −0.01176
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

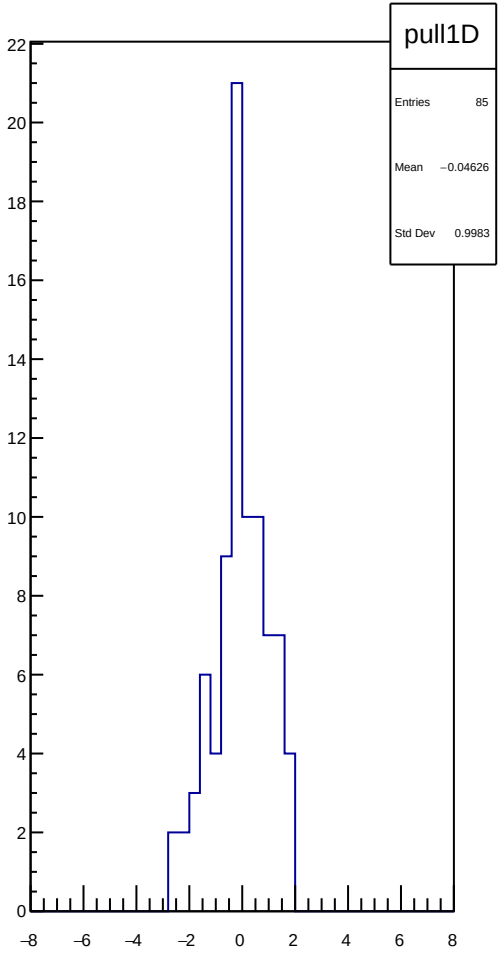

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.322e+04 / 84
p0 6844 ± 5.362
8500
8000
7500
7000
6500
6000
5500

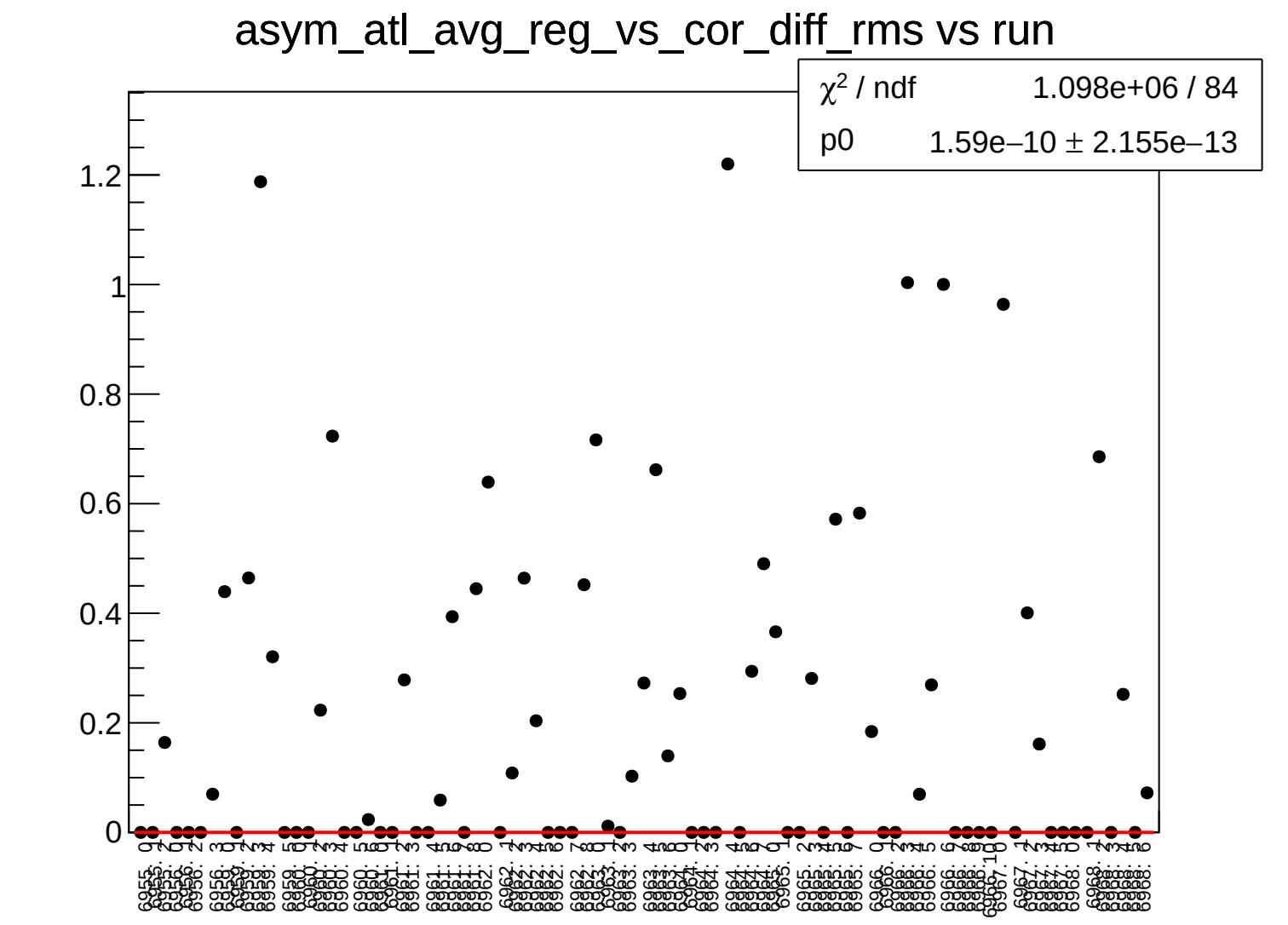

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 89.64 / 84
p0 3643 ± 7459
300
200
100
0
−100
−200
pull
Entries 85
Mean 51.92
Std Dev 60.19
3
2
1
0
−1
−2

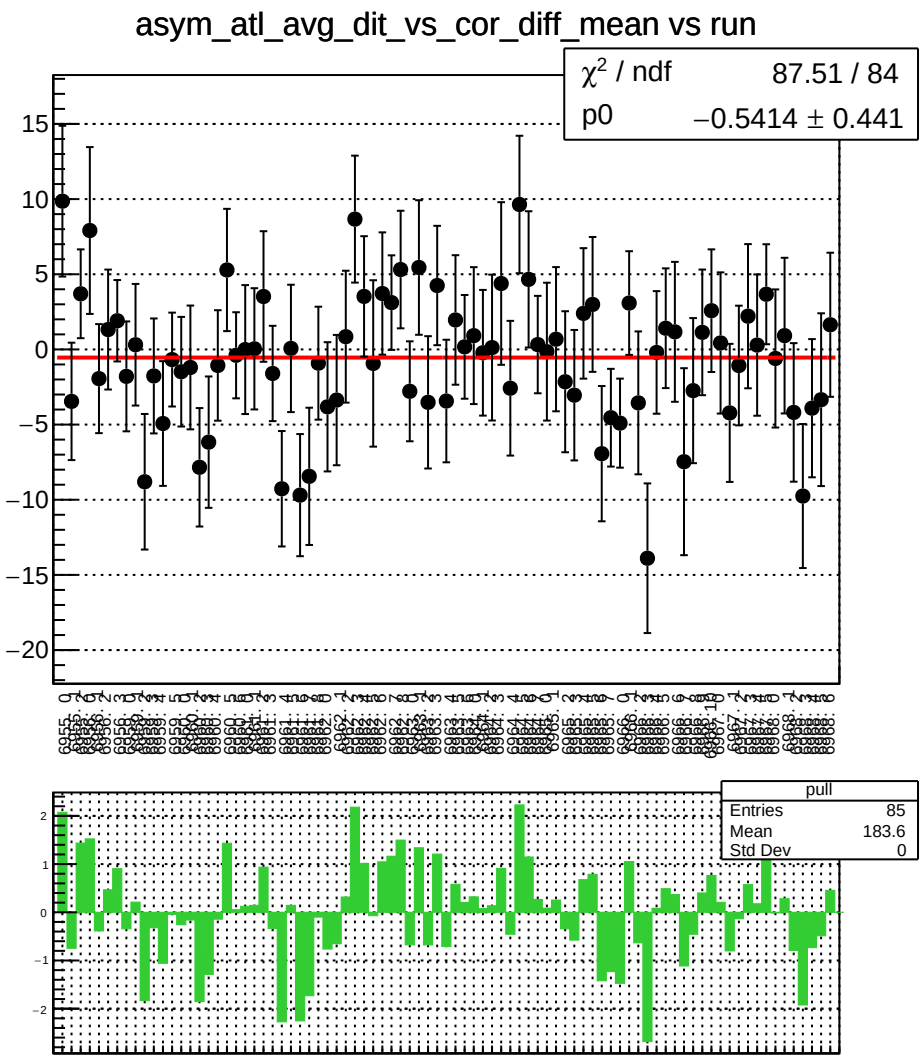

pull1D
Entries 85
Mean 0.01051
Std Dev 1.027
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

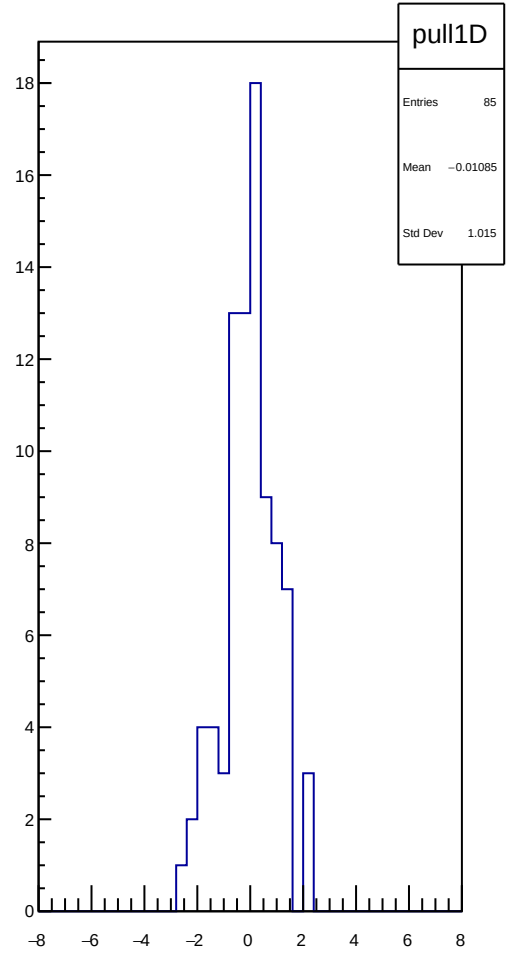

asym_atl_avg_rms vs run
$\chi^2$ / ndf 1.183e+04 / 84
p0 6735 ± 5.274
8500
8000
7500
7000
6500
6000
5500

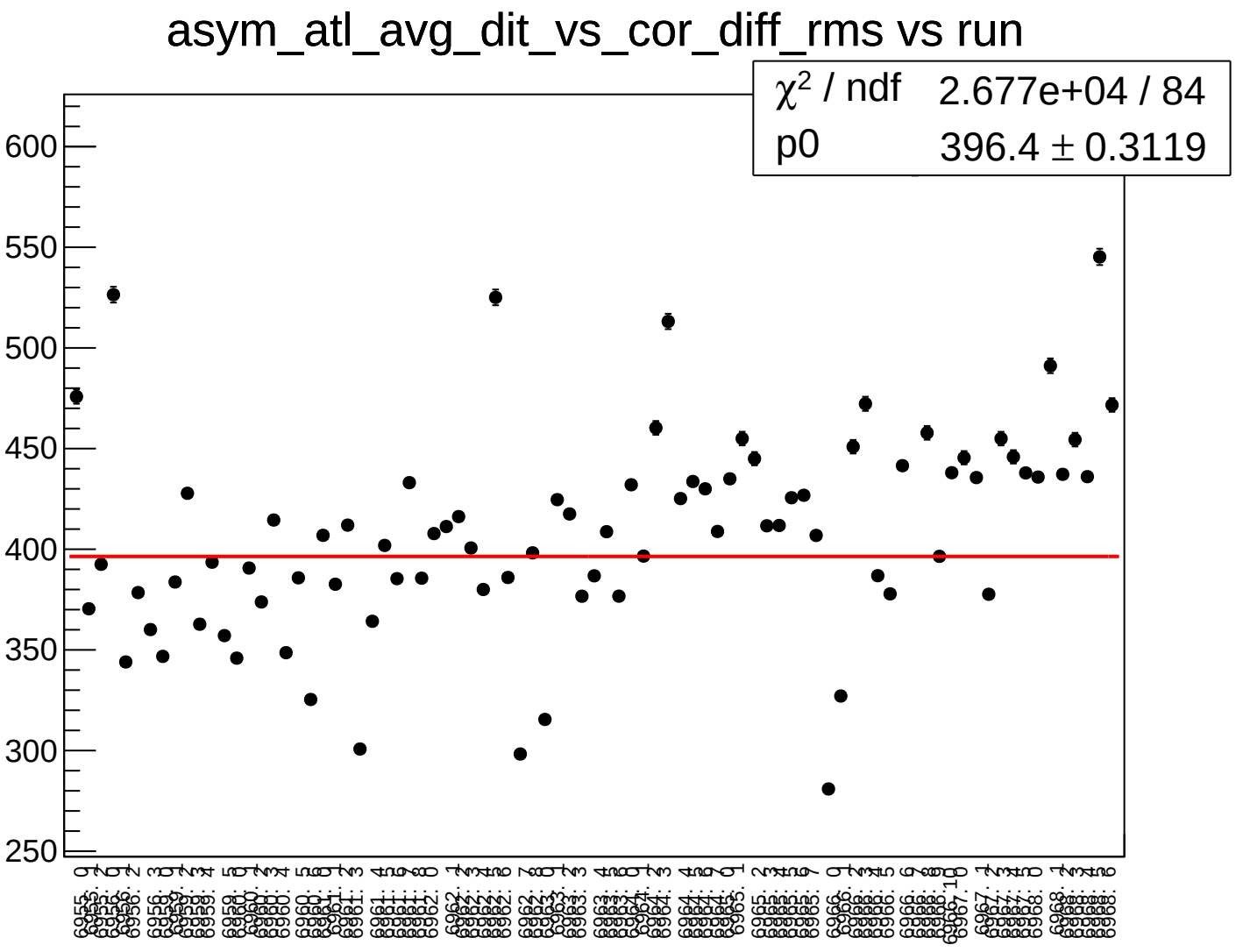

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.9 / 84
p0 −2.428e−13 ± 3.048e−13
pull
Entries 85
Mean 112.4
Std Dev 0

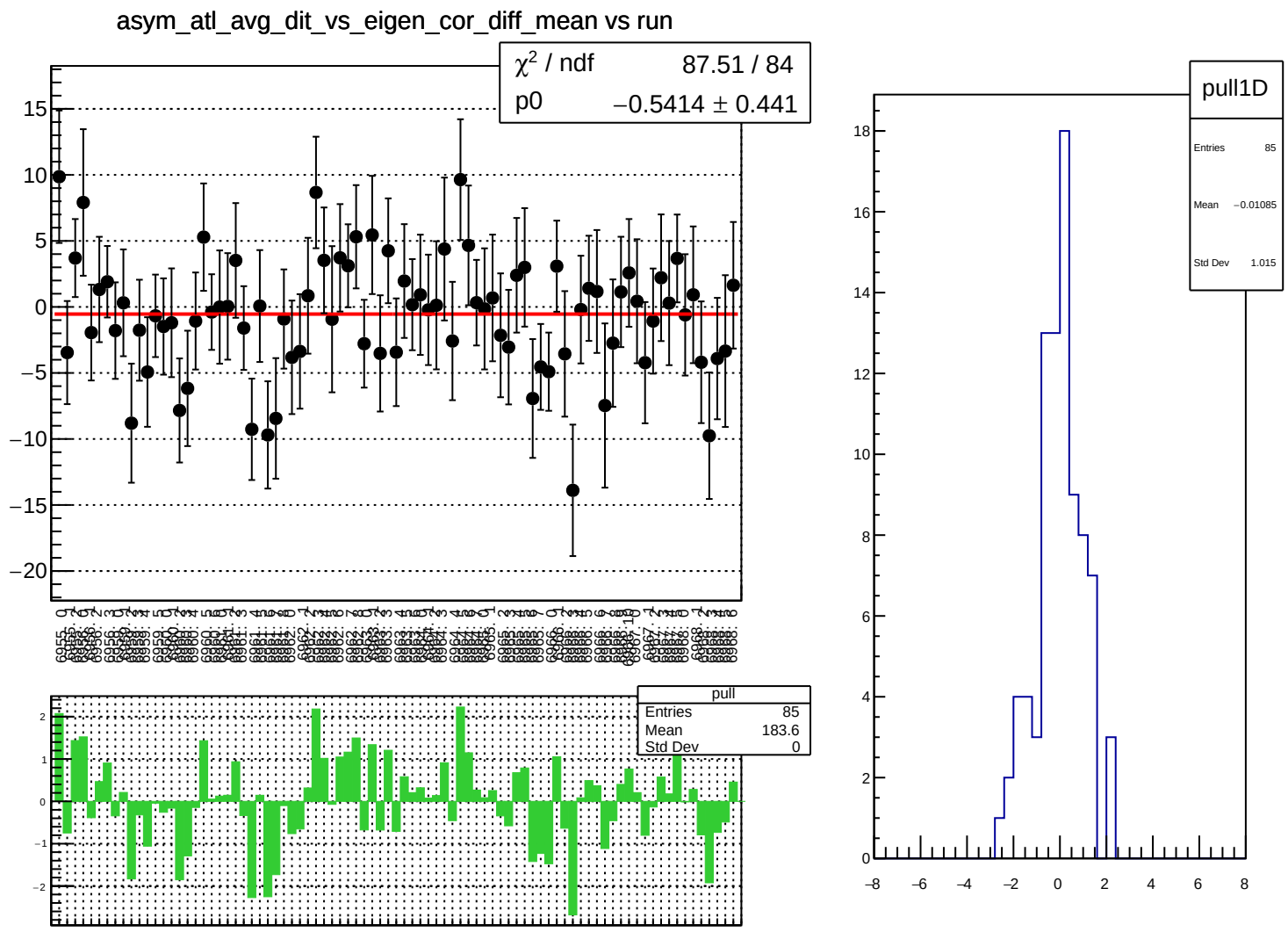

pull1D
Entries 85
Mean −0.04626
Std Dev 0.9983

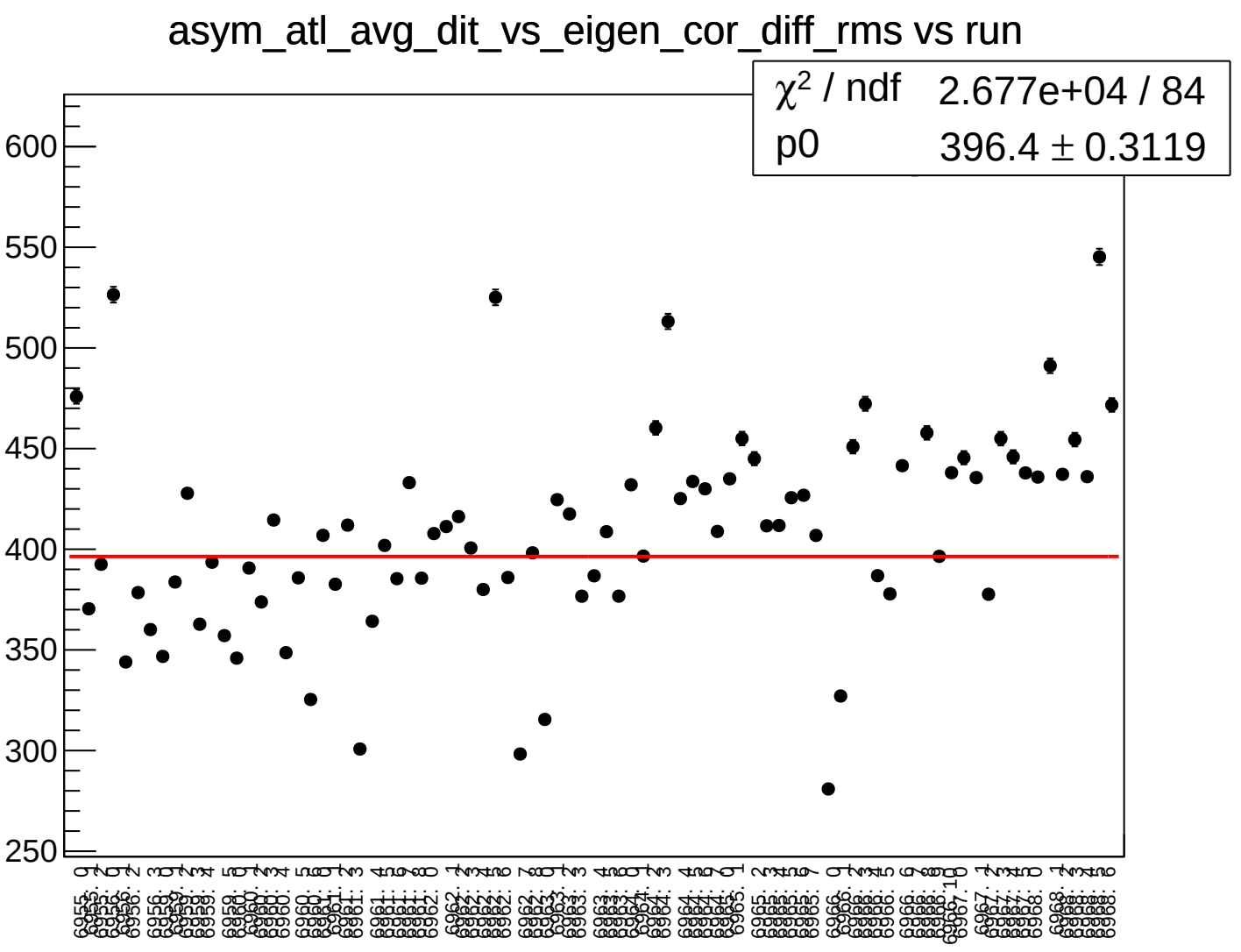

asym_atl_avg_reg_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.098e+06 / 84
p0 1.59e−10 ± 2.155e−13
1.2
1
0.8
0.6
0.4
0.2
0

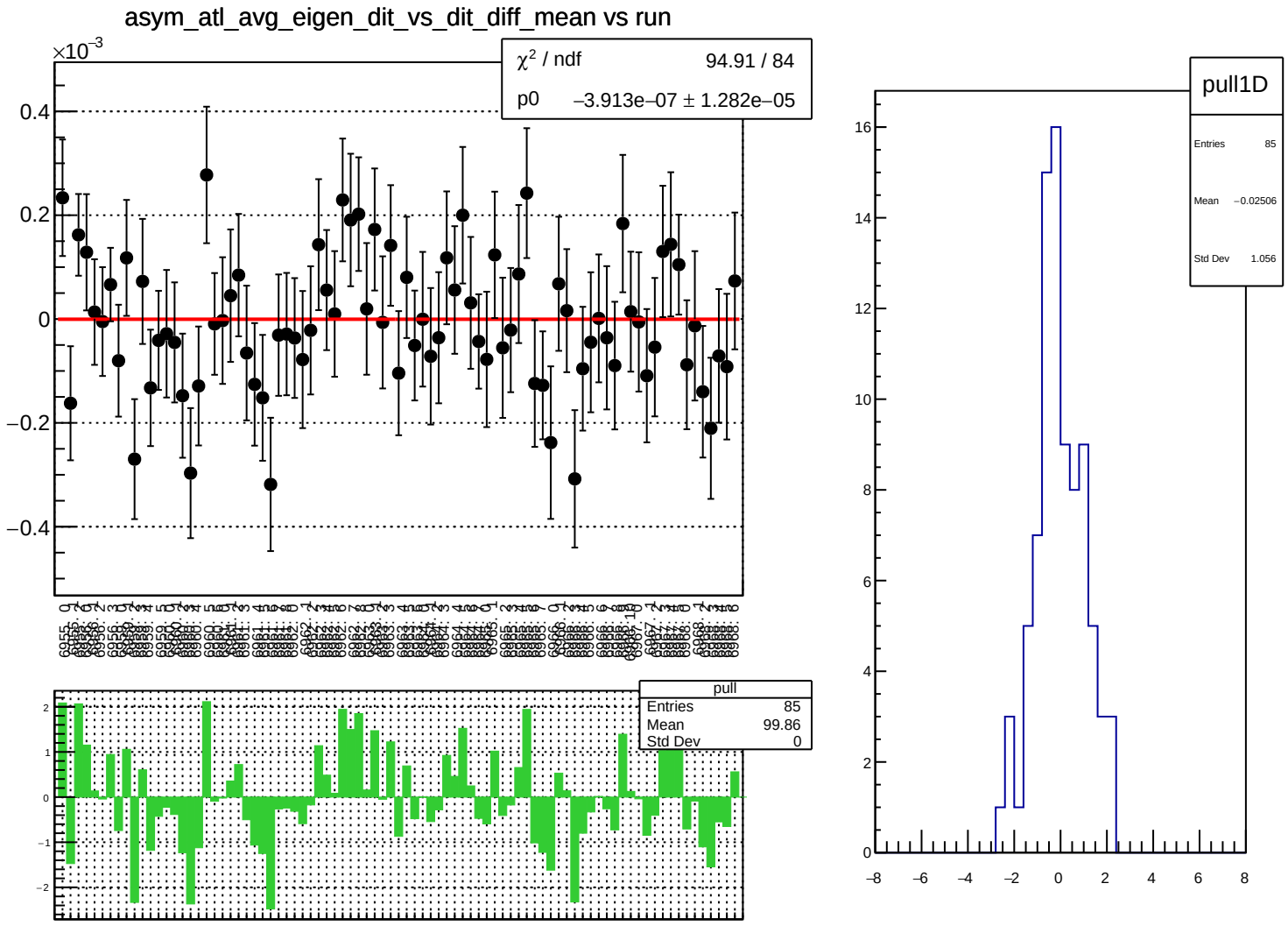

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.51 / 84
p0 −0.5414 ± 0.441
pull
Entries 85
Mean 183.6
Std Dev 0

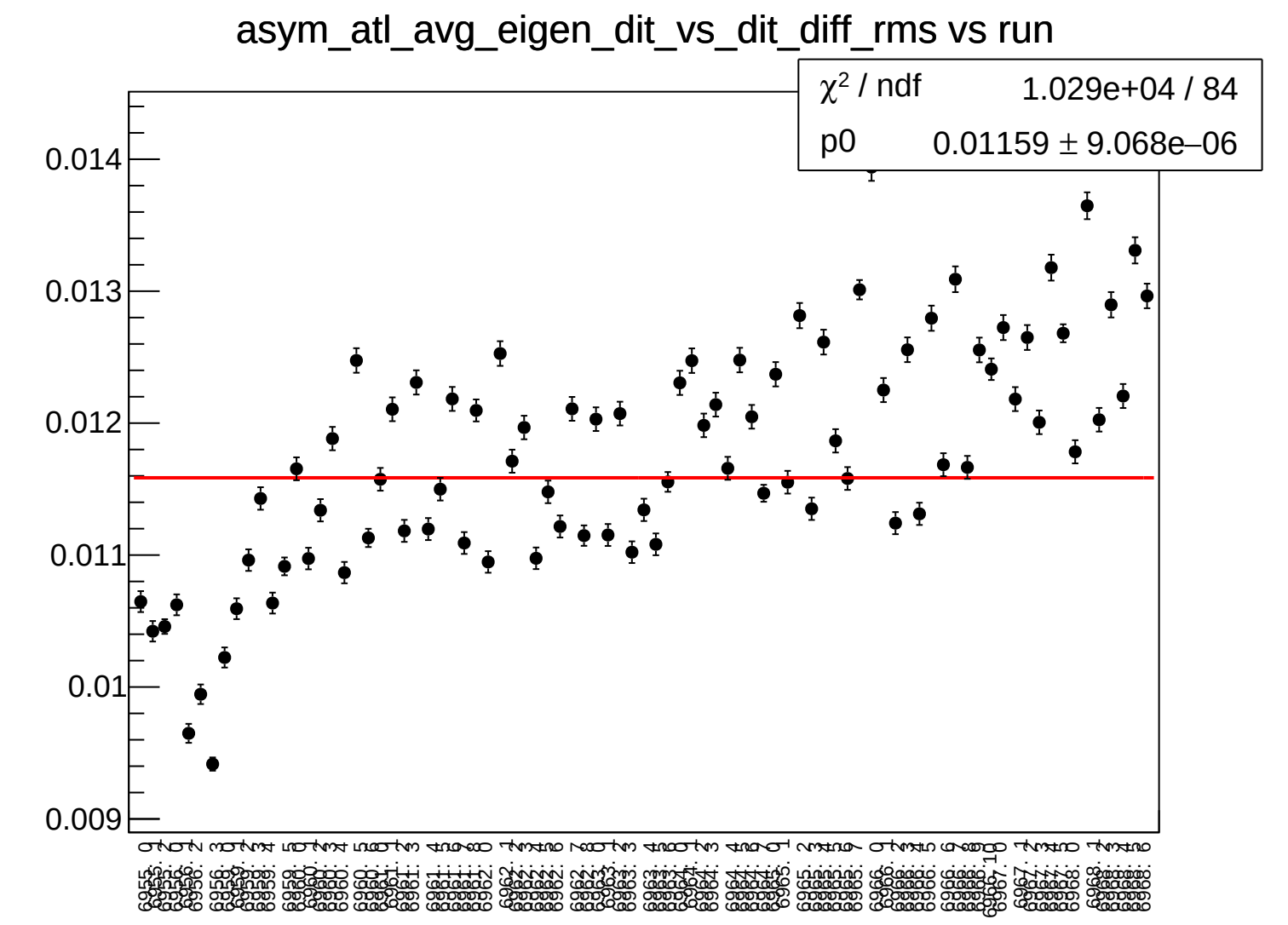

pull1D
Entries 85
Mean −0.01085
Std Dev 1.015

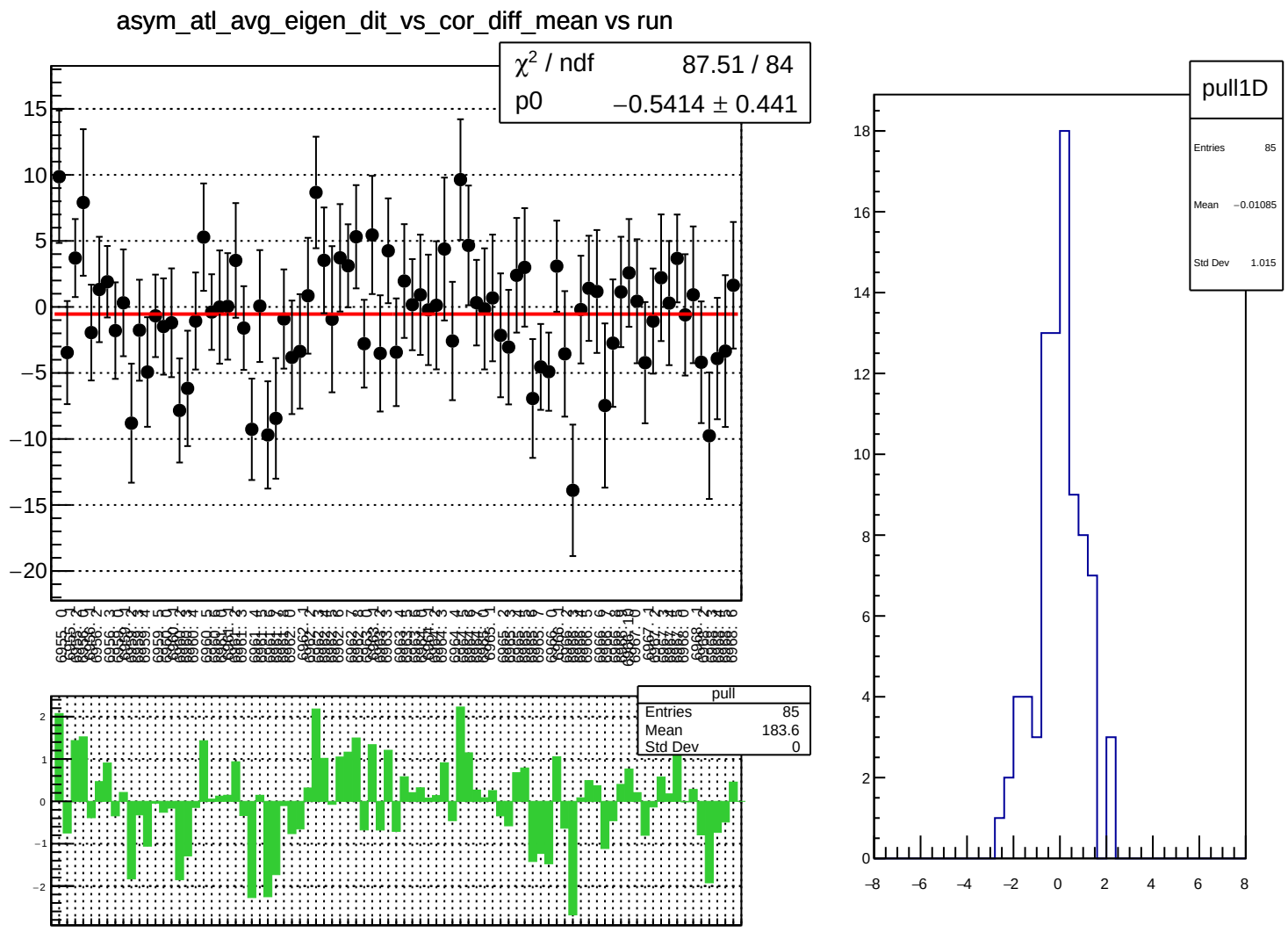

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.677e+04 / 84
p0 396.4 ± 0.3119
600
550
500
450
400
350
300
250

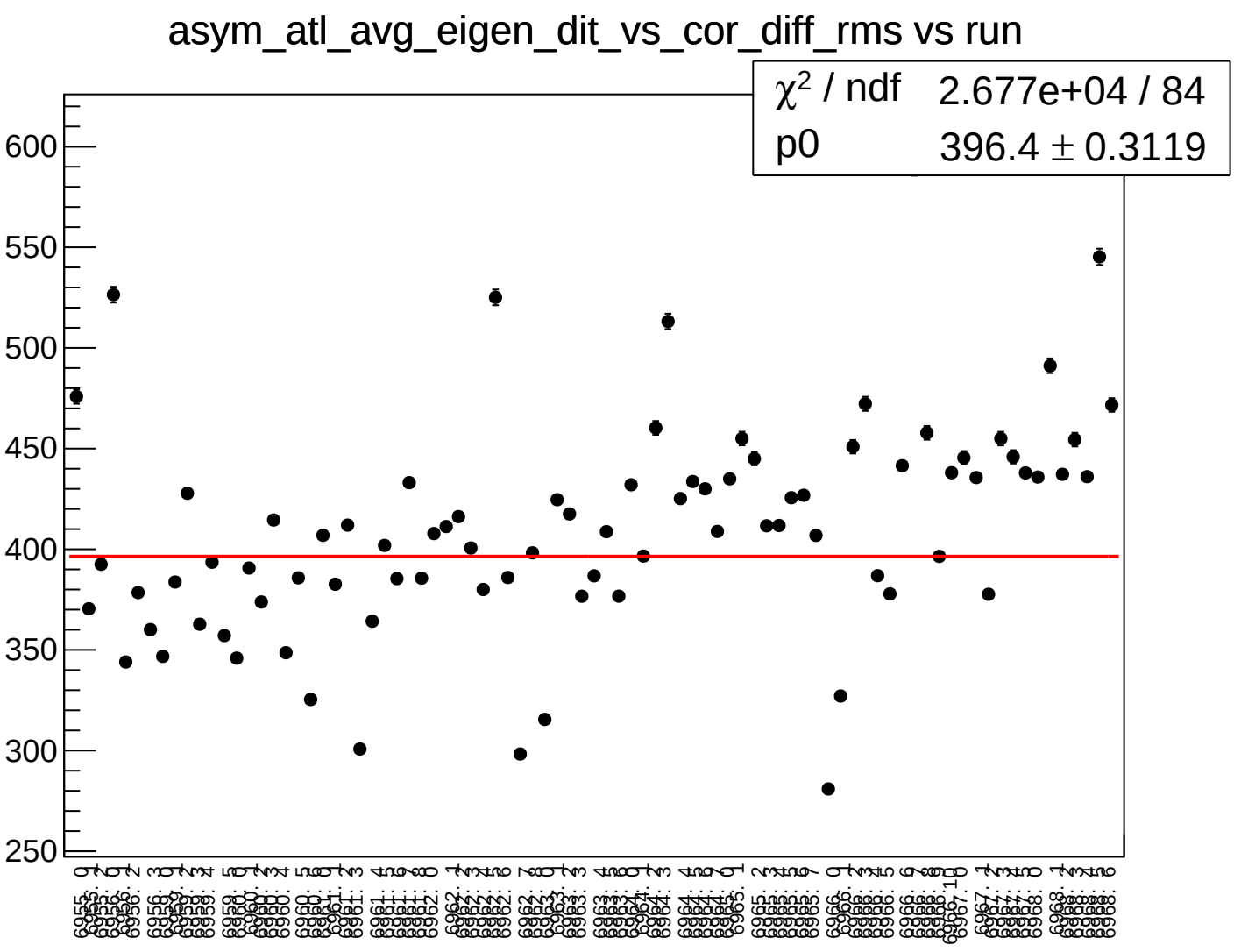

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.51 / 84
p0 −0.5414 ± 0.441
pull
Entries 85
Mean 183.6
Std Dev 0
pull1D
Entries 85
Mean −0.01085
Std Dev 1.015

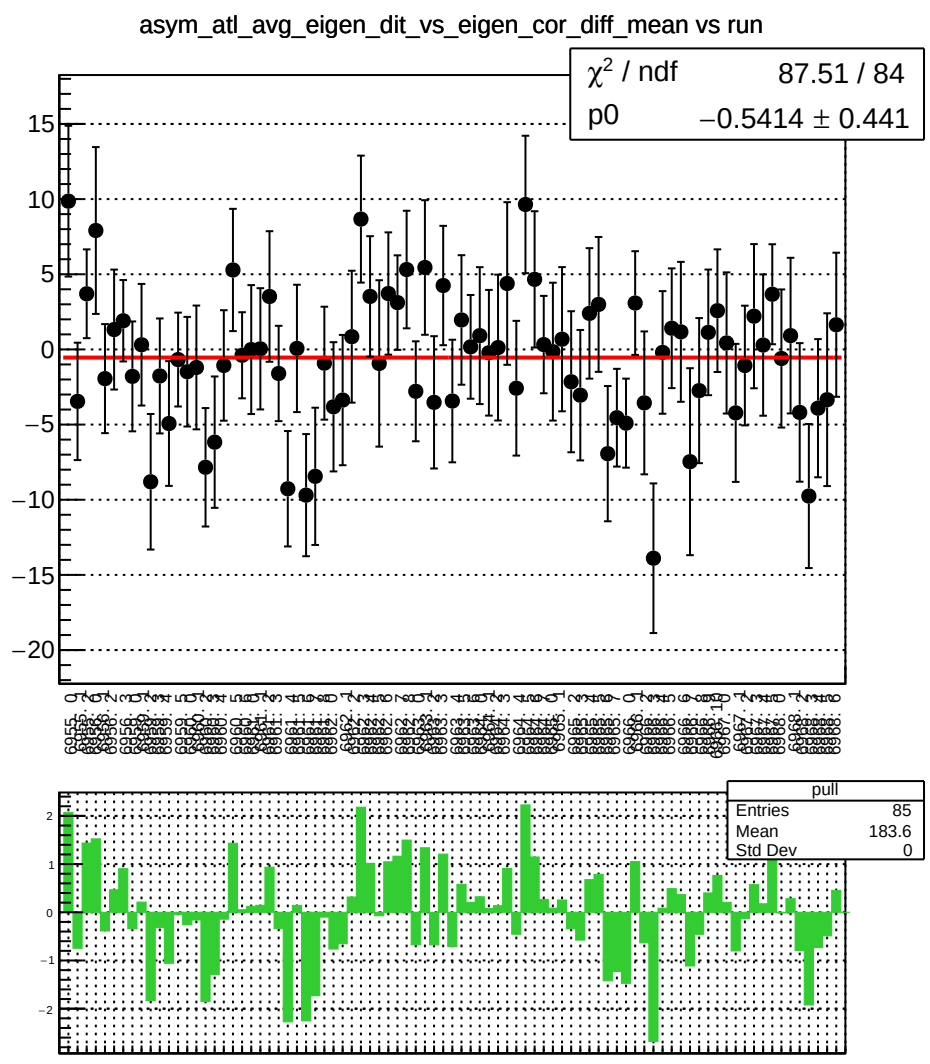

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.677e+04 / 84
p0 396.4 ± 0.3119
600
550
500
450
400
350
300
250

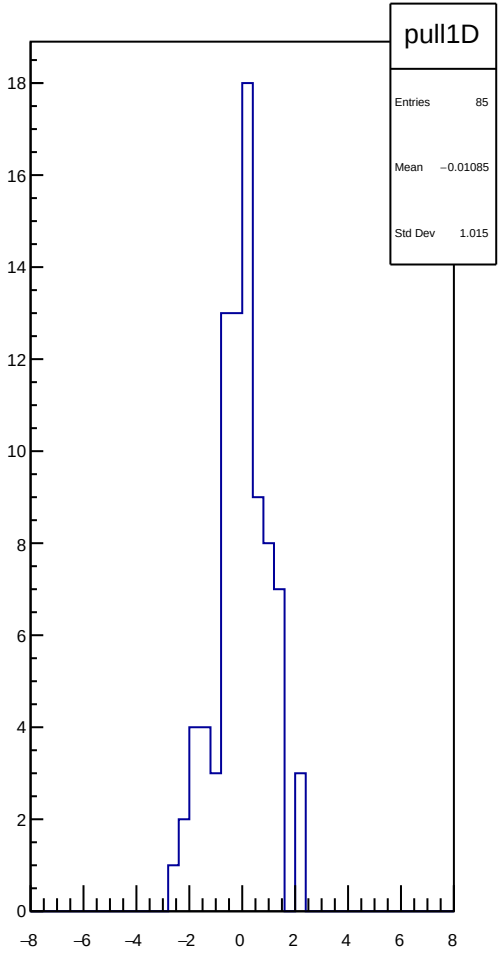

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.91 / 84
p0 −3.913e−07 ± 1.282e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 85
Mean 99.86
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.02506
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

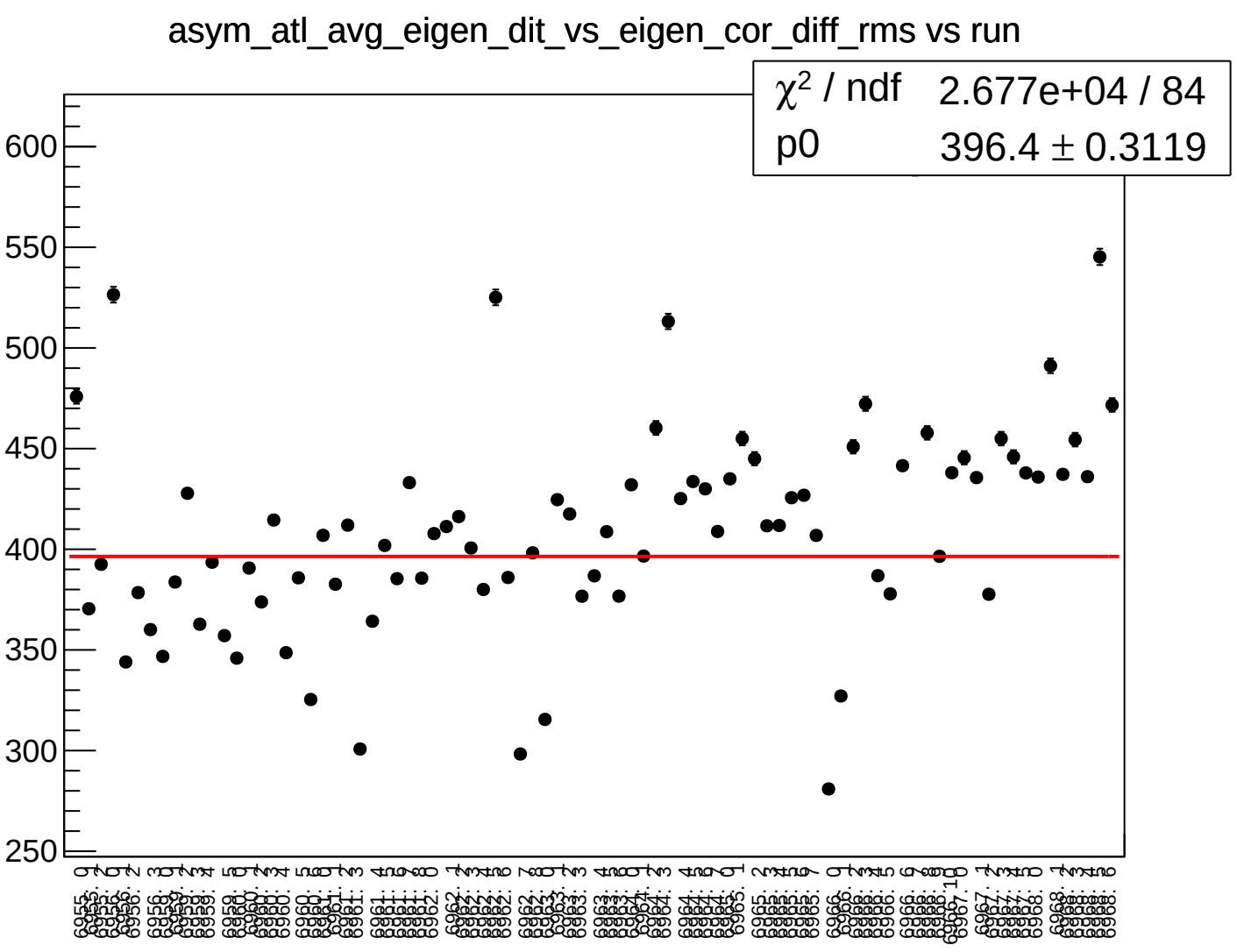

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.029e+04 / 84
p0 0.01159 ± 9.068e−06
0.014
0.013
0.012
0.011
0.01
0.009

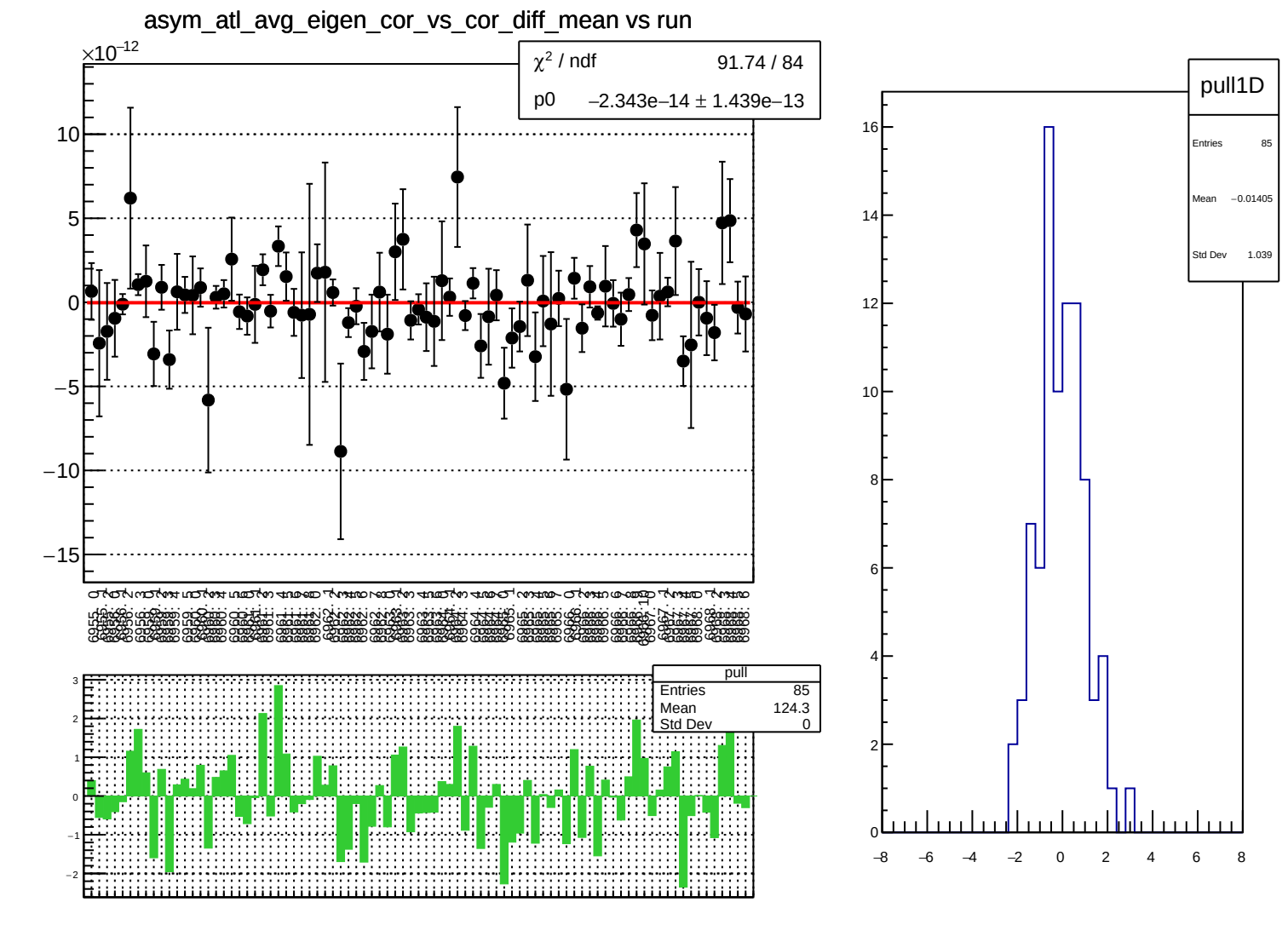

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.51 / 84
p0 −0.5414 ± 0.441
pull
Entries 85
Mean 183.6
Std Dev 0
pull1D
Entries 85
Mean −0.01085
Std Dev 1.015

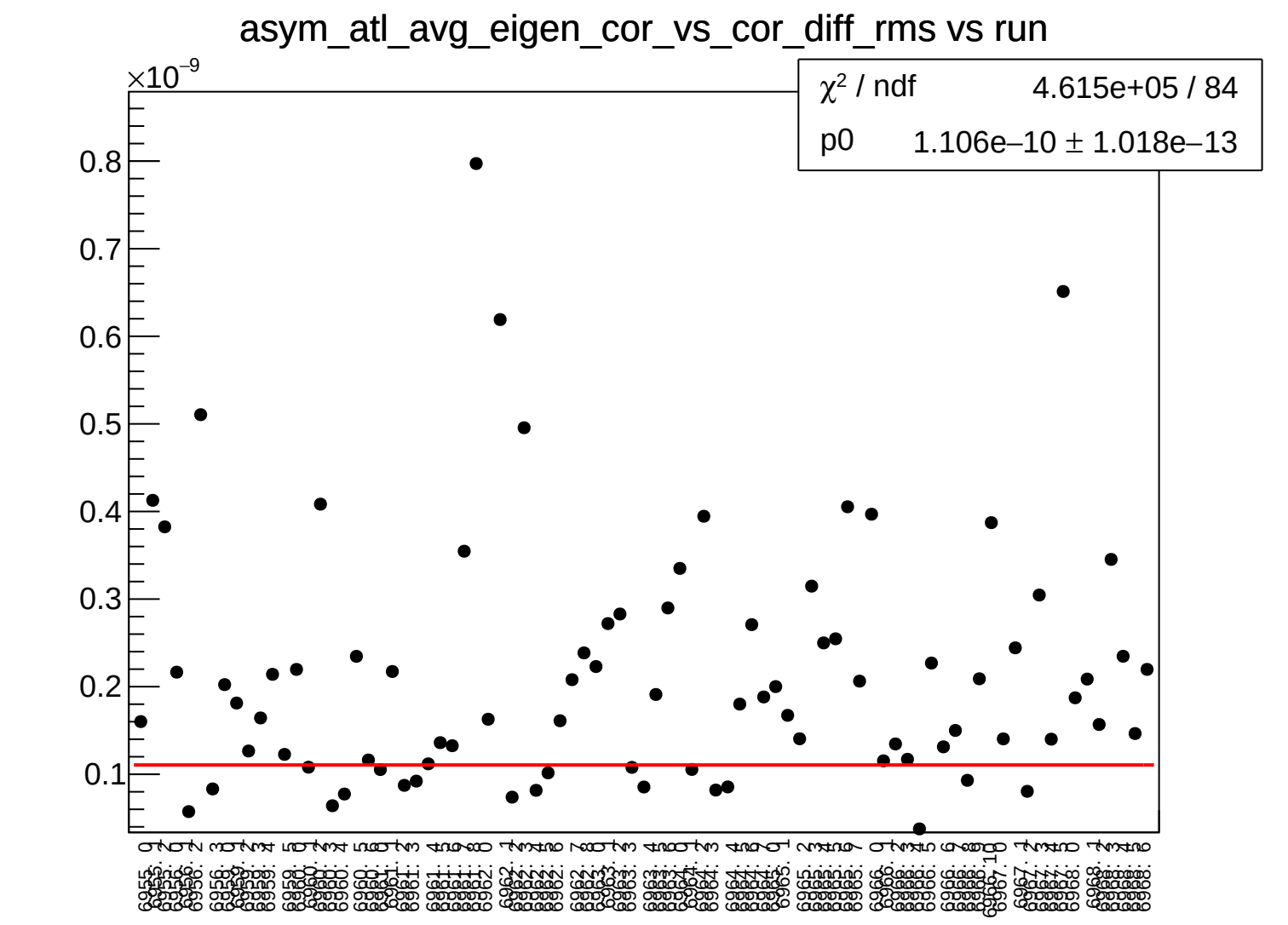

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.677e+04 / 84
p0 396.4 ± 0.3119
600
550
500
450
400
350
300
250

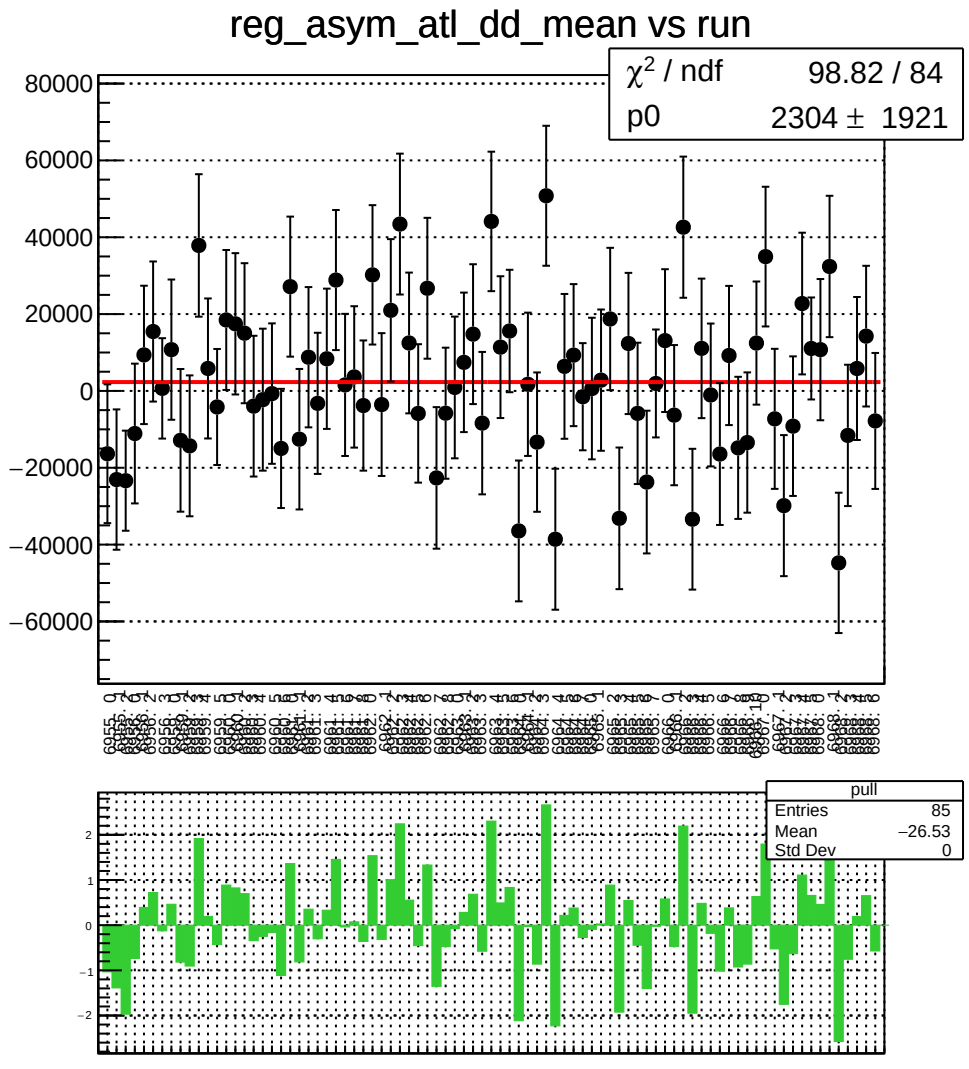

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.51 / 84
p0 −0.5414 ± 0.441
pull
Entries 85
Mean 183.6
Std Dev 0

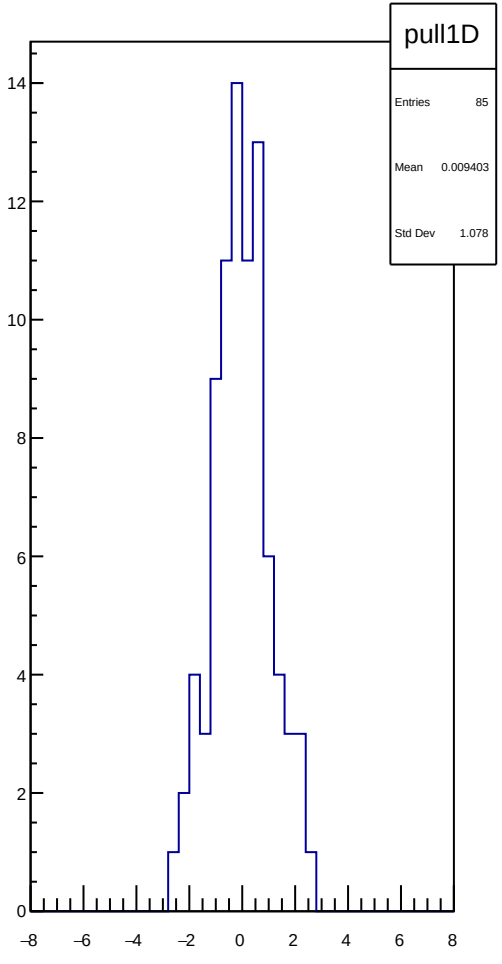

pull1D
Entries 85
Mean −0.01085
Std Dev 1.015

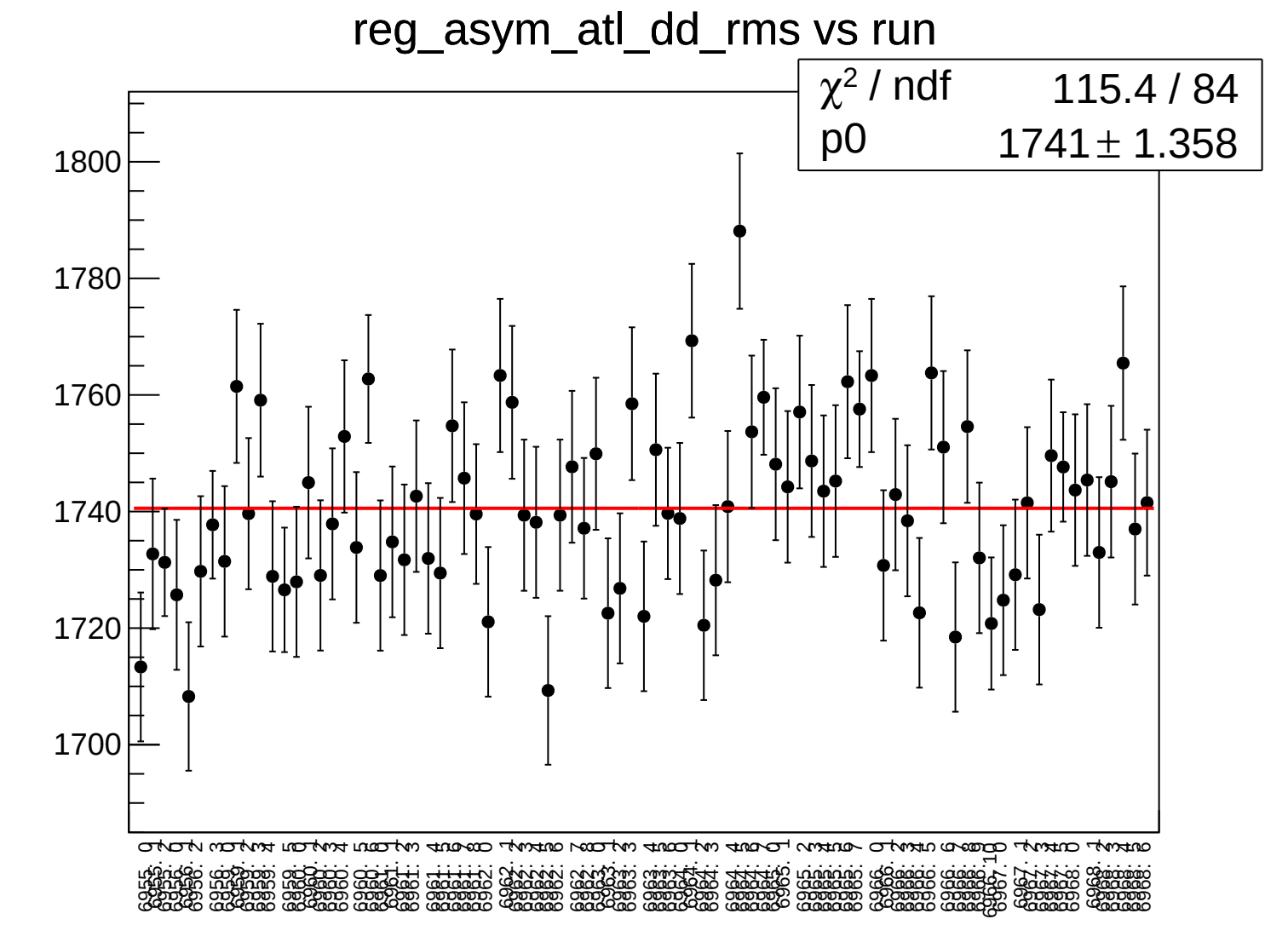

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.677e+04 / 84
p0 396.4 ± 0.3119
600
550
500
450
400
350
300
250

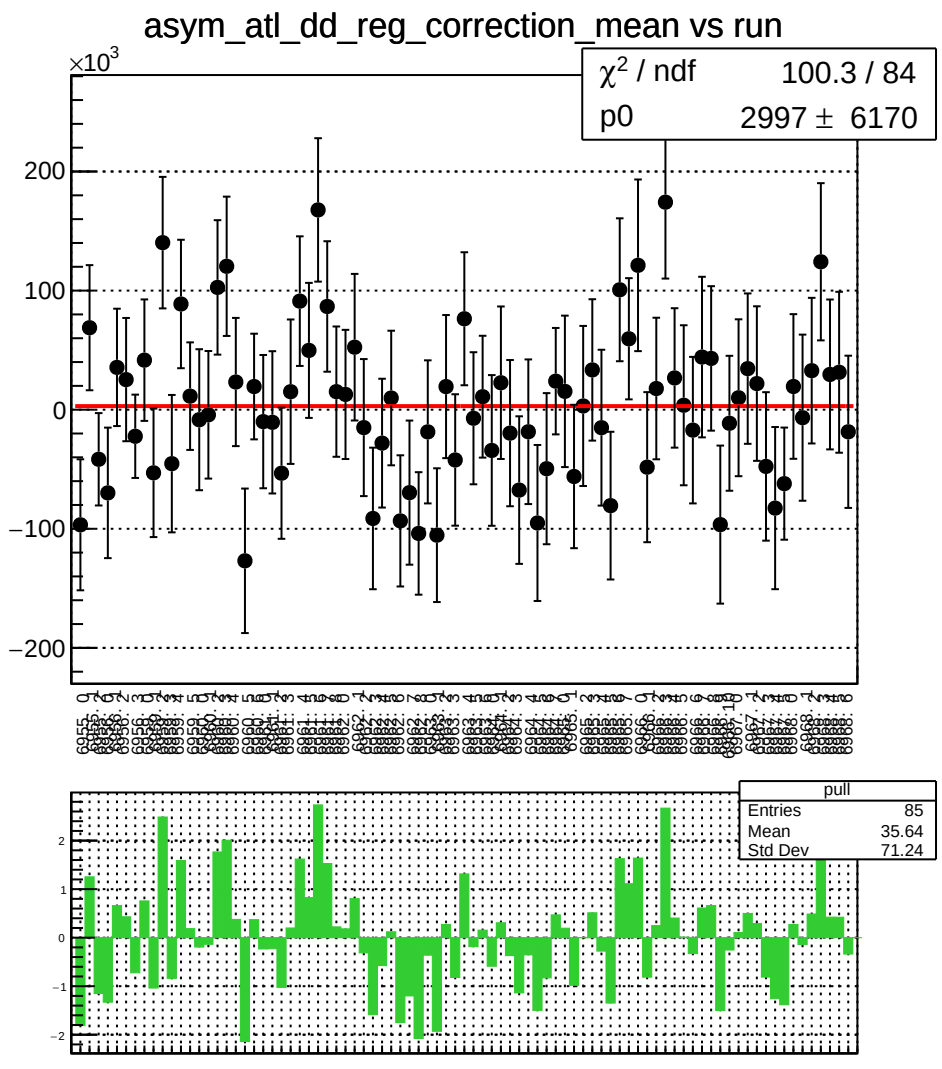

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.74 / 84
p0 −2.343e−14 ± 1.439e−13
pull
Entries 85
Mean 124.3
Std Dev 0
pull1D
Entries 85
Mean −0.01405
Std Dev 1.039

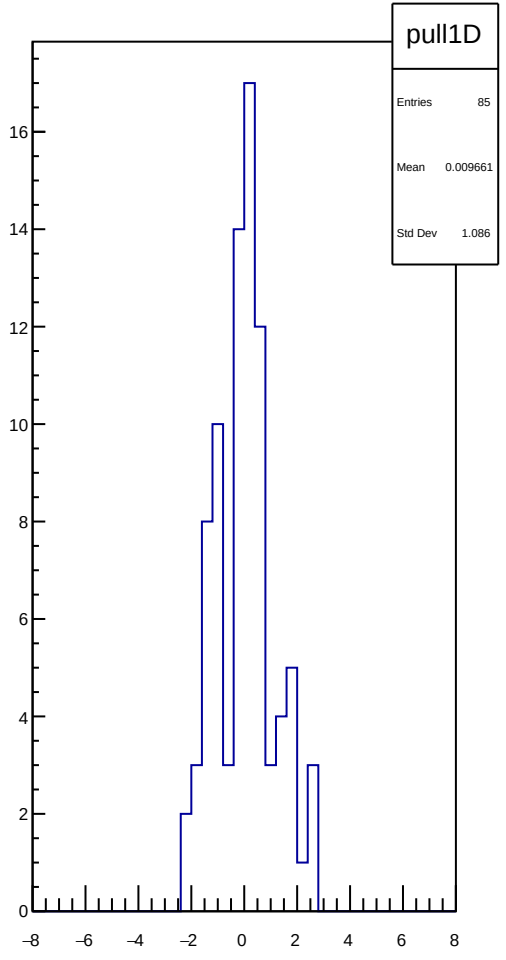

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.615e+05 / 84
p0 1.106e−10 ± 1.018e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

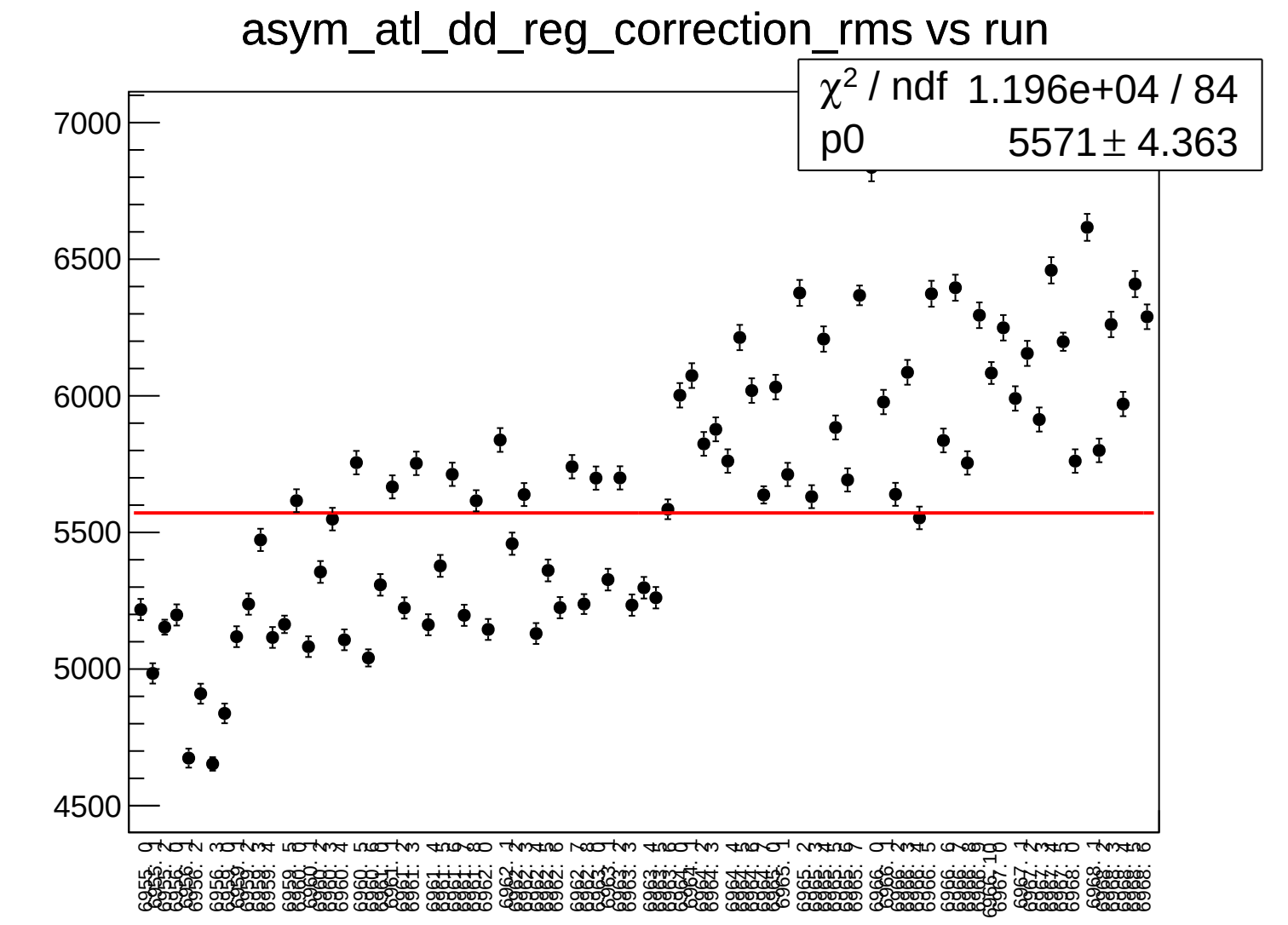

reg_asym_atl_dd_mean vs run
χ² / ndf 98.82 / 84
p0 2304 ± 1921
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −26.53
Std Dev 0
2
1
0
−1
−2

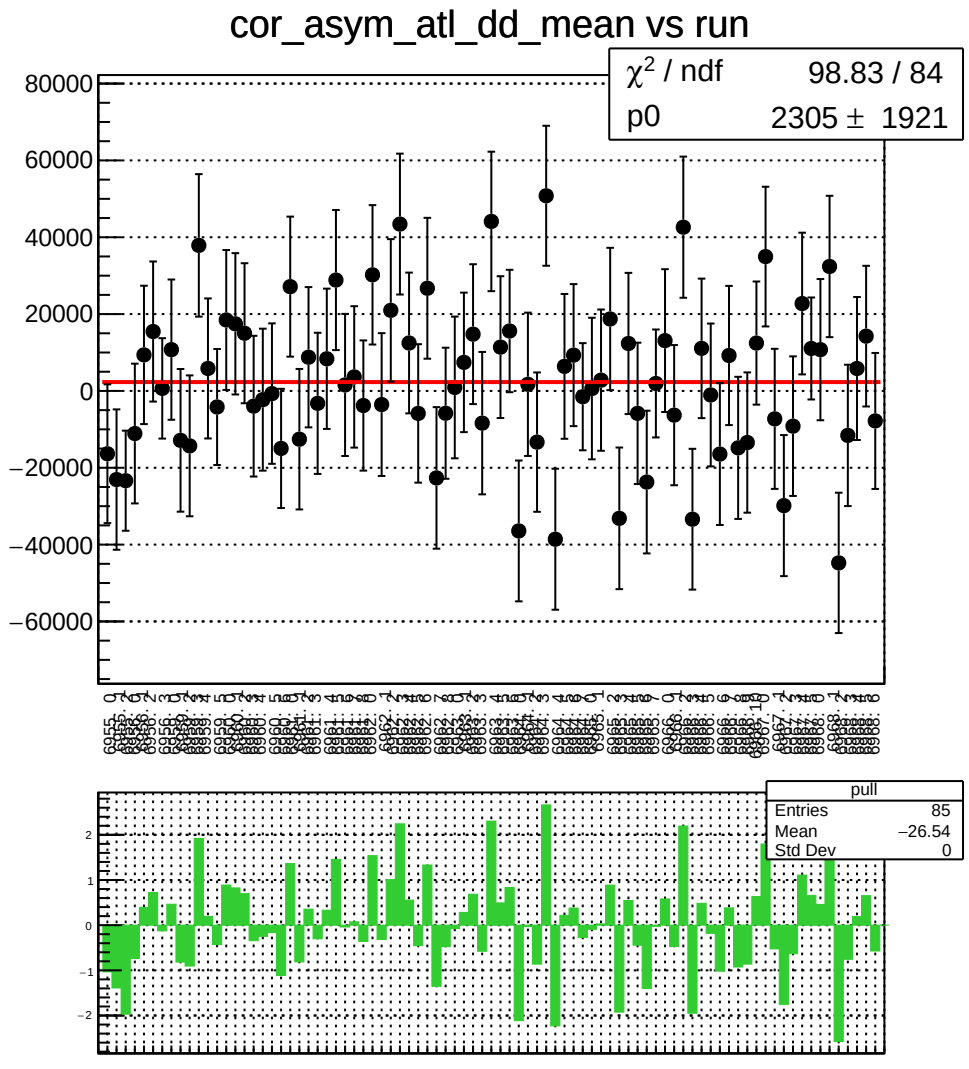

pull1D
Entries 85
Mean 0.009403
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

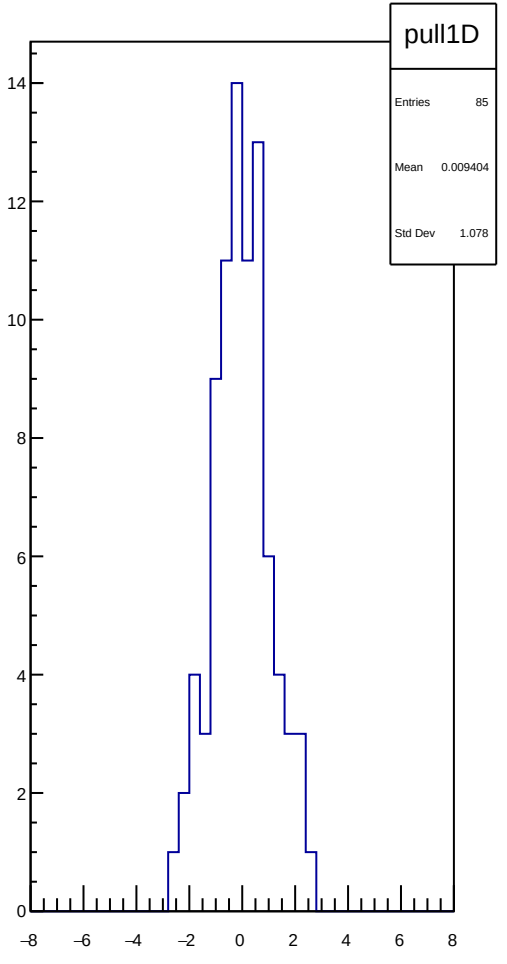

reg_asym_atl_dd_rms vs run
$\chi^2$ / ndf 115.4 / 84
p0 1741 ± 1.358
1800
1780
1760
1740
1720
1700

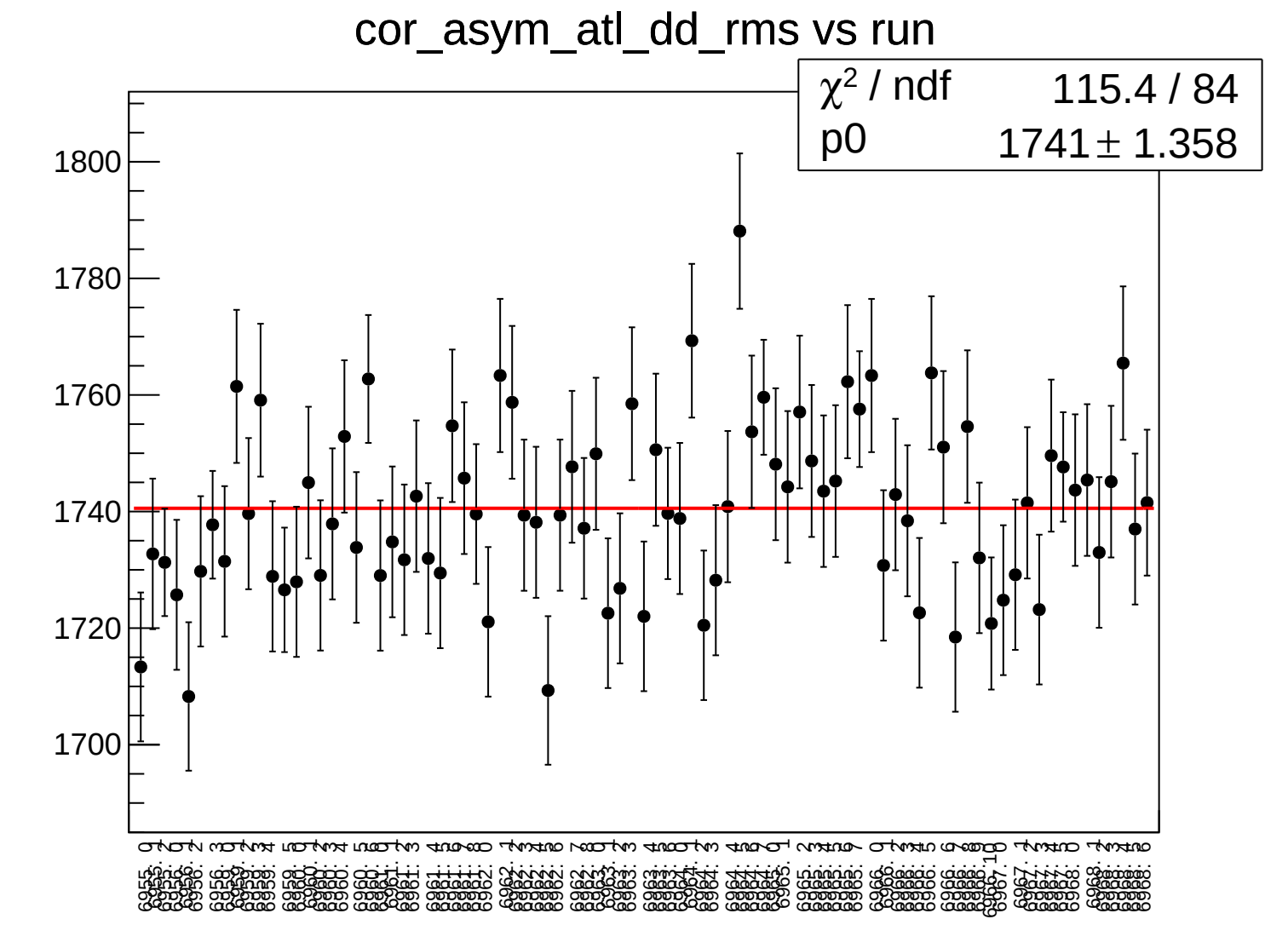

asym_atl_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 100.3 / 84
p0 2997 ± 6170
200
100
0
−100
−200
pull
Entries 85
Mean 35.64
Std Dev 71.24
2
1
0
−1
−2

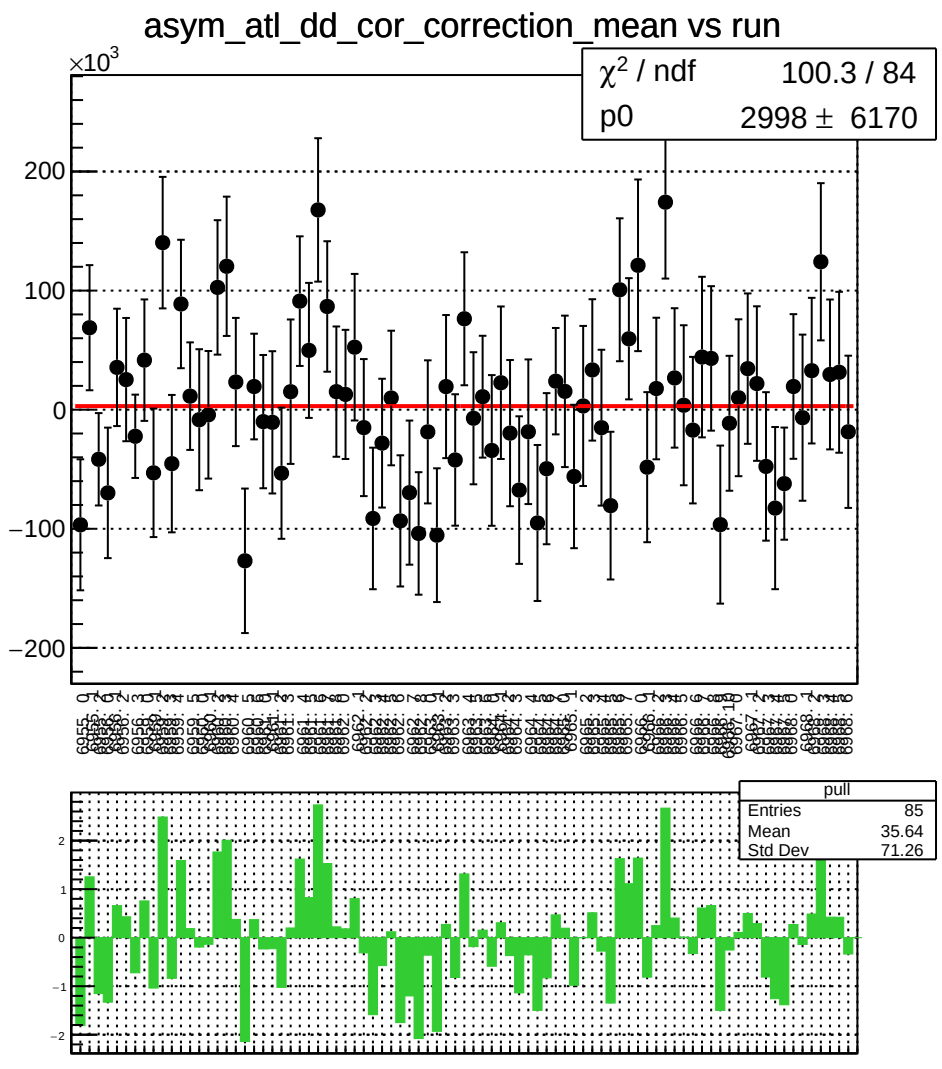

pull1D
Entries 85
Mean 0.009661
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

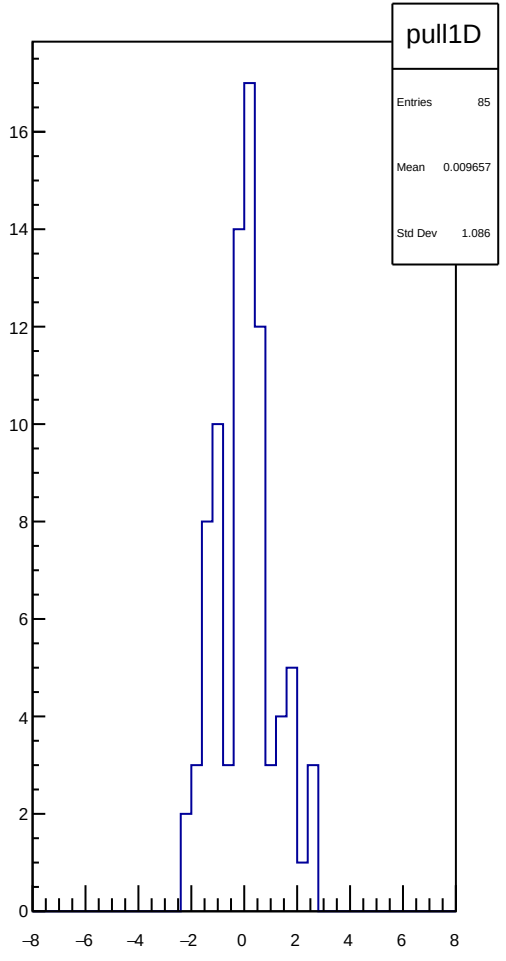

asym_atl_dd_reg_correction_rms vs run
$\chi^2$ / ndf 1.196e+04 / 84
p0 5571 ± 4.363
7000
6500
6000
5500
5000
4500

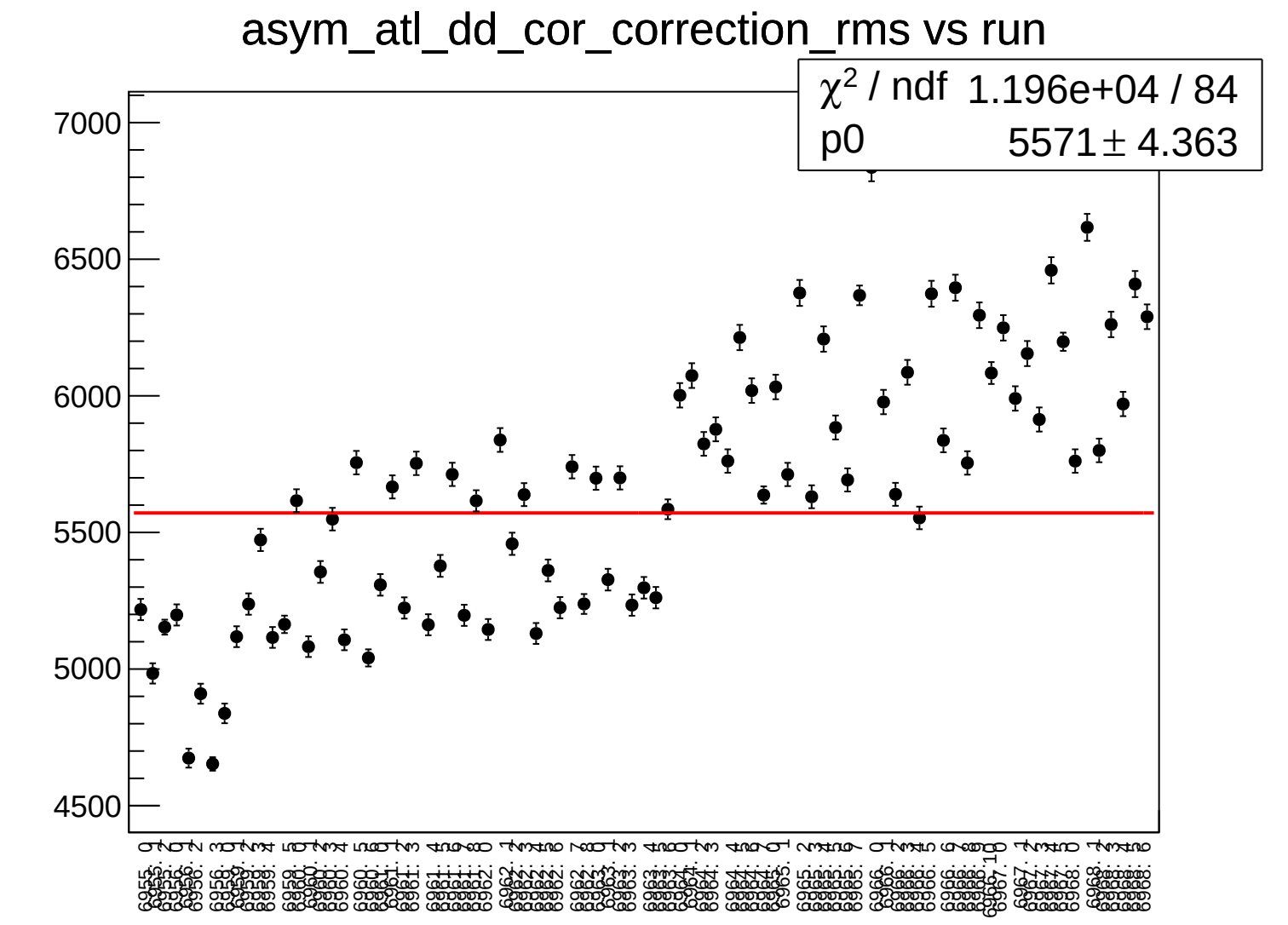

cor_asym_atl_dd_mean vs run
χ² / ndf 98.83 / 84
p0 2305 ± 1921
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −26.54
Std Dev 0
2
1
0
−1
−2

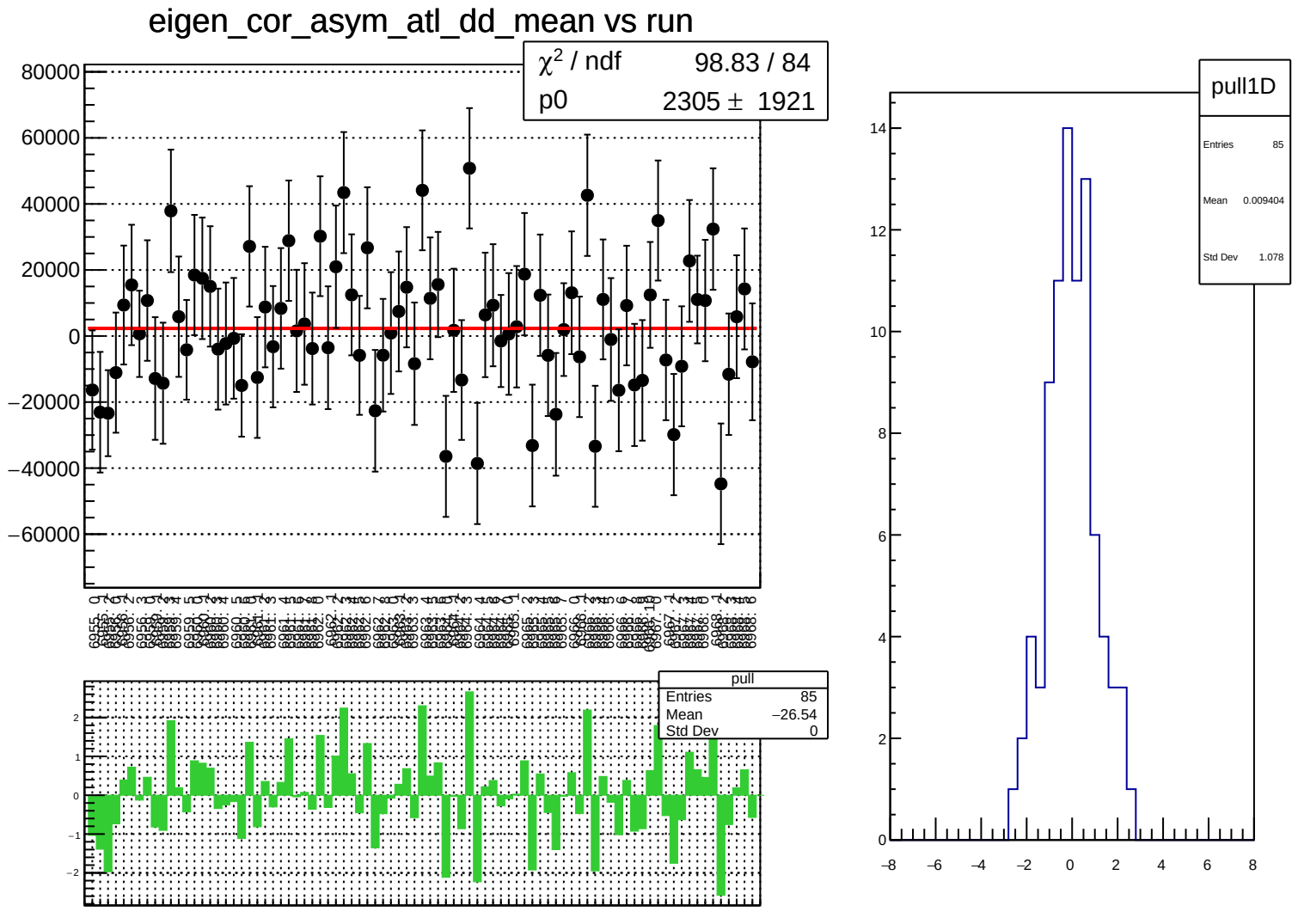

pull1D
Entries 85
Mean 0.009404
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

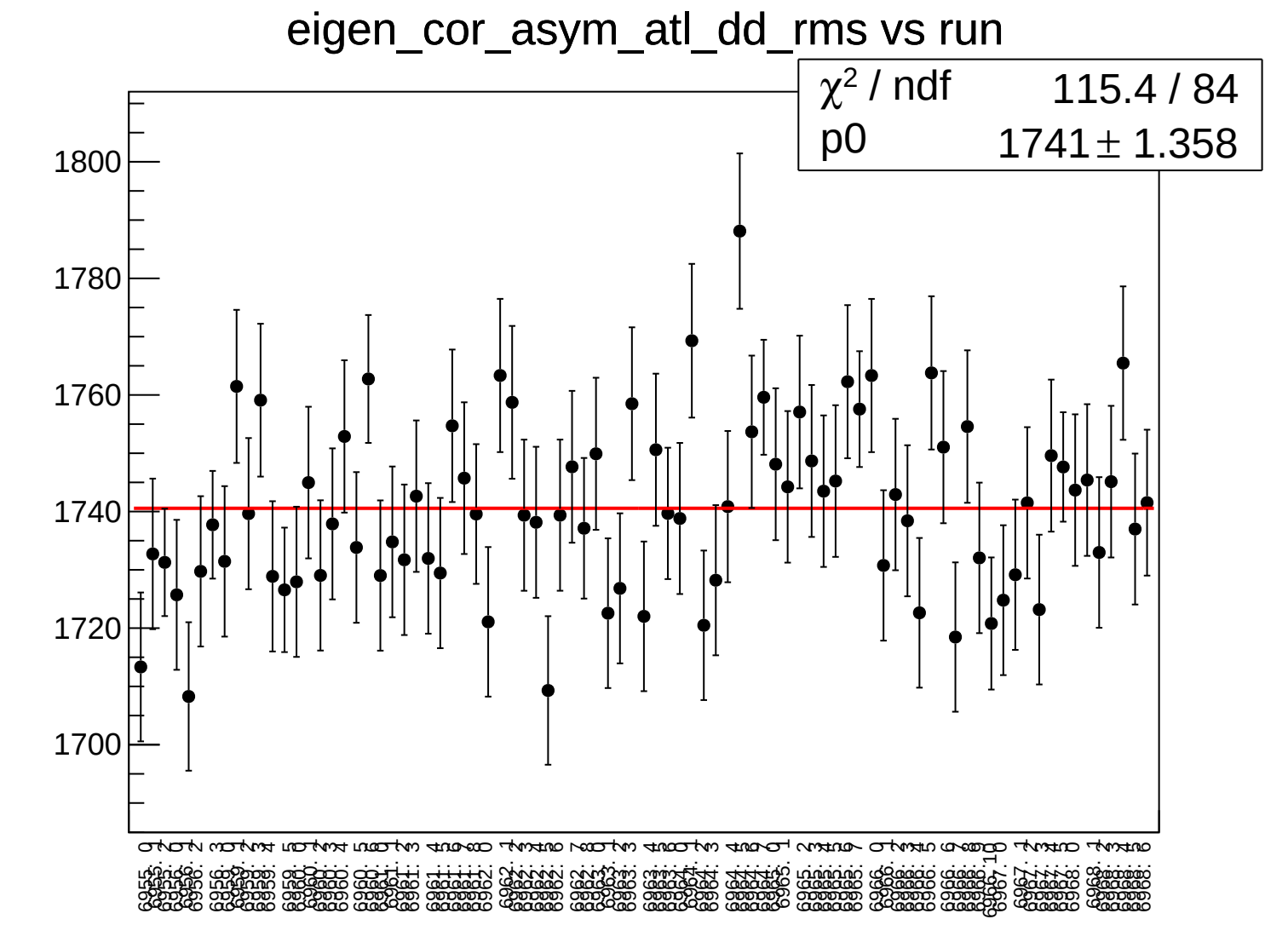

cor_asym_atl_dd_rms vs run
$\chi^2$ / ndf 115.4 / 84
p0 1741 ± 1.358
1800
1780
1760
1740
1720
1700

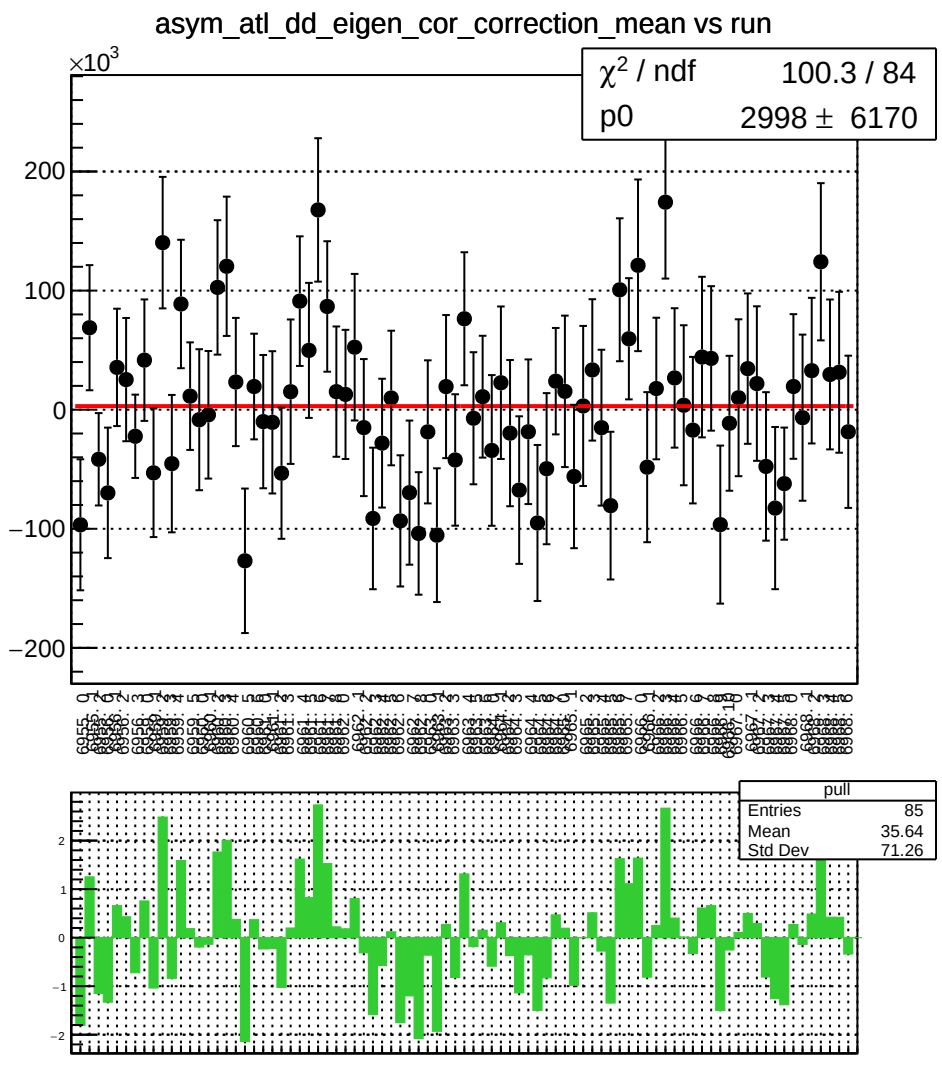

asym_atl_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.3 / 84
p0 2998 ± 6170
200
100
0
−100
−200
pull
Entries 85
Mean 35.64
Std Dev 71.26
2
1
0
−1
−2

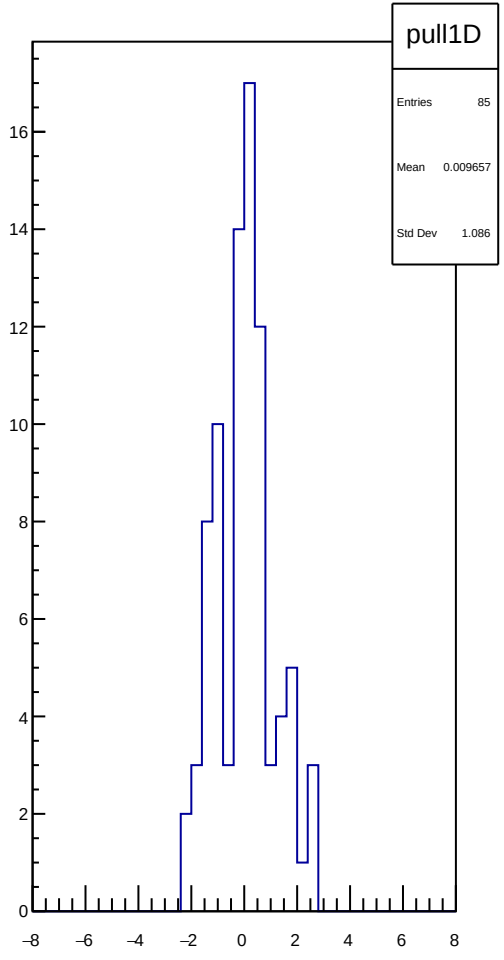

pull1D
Entries 85
Mean 0.009657
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

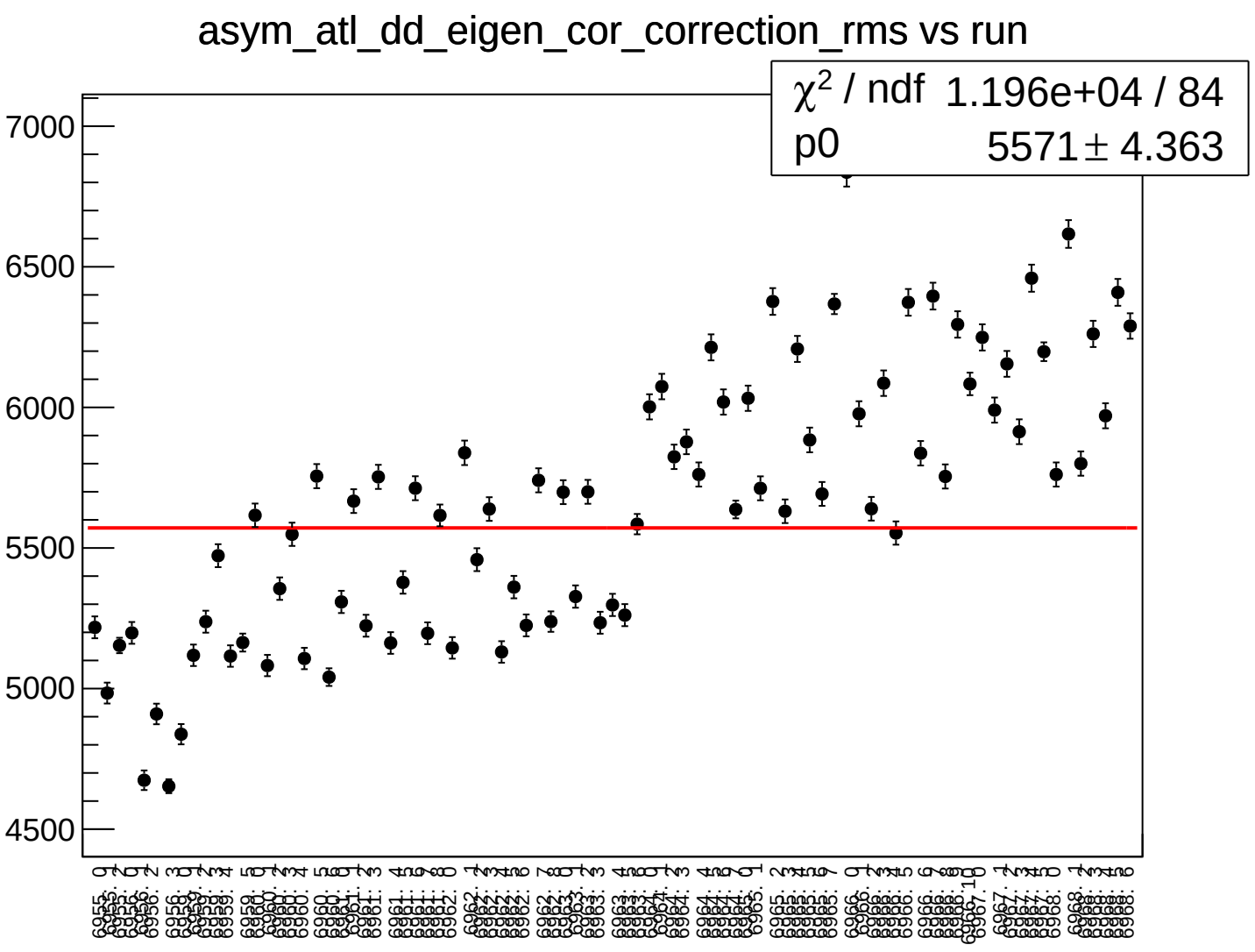

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.196e+04 / 84
p0 5571 ± 4.363
7000
6500
6000
5500
5000
4500

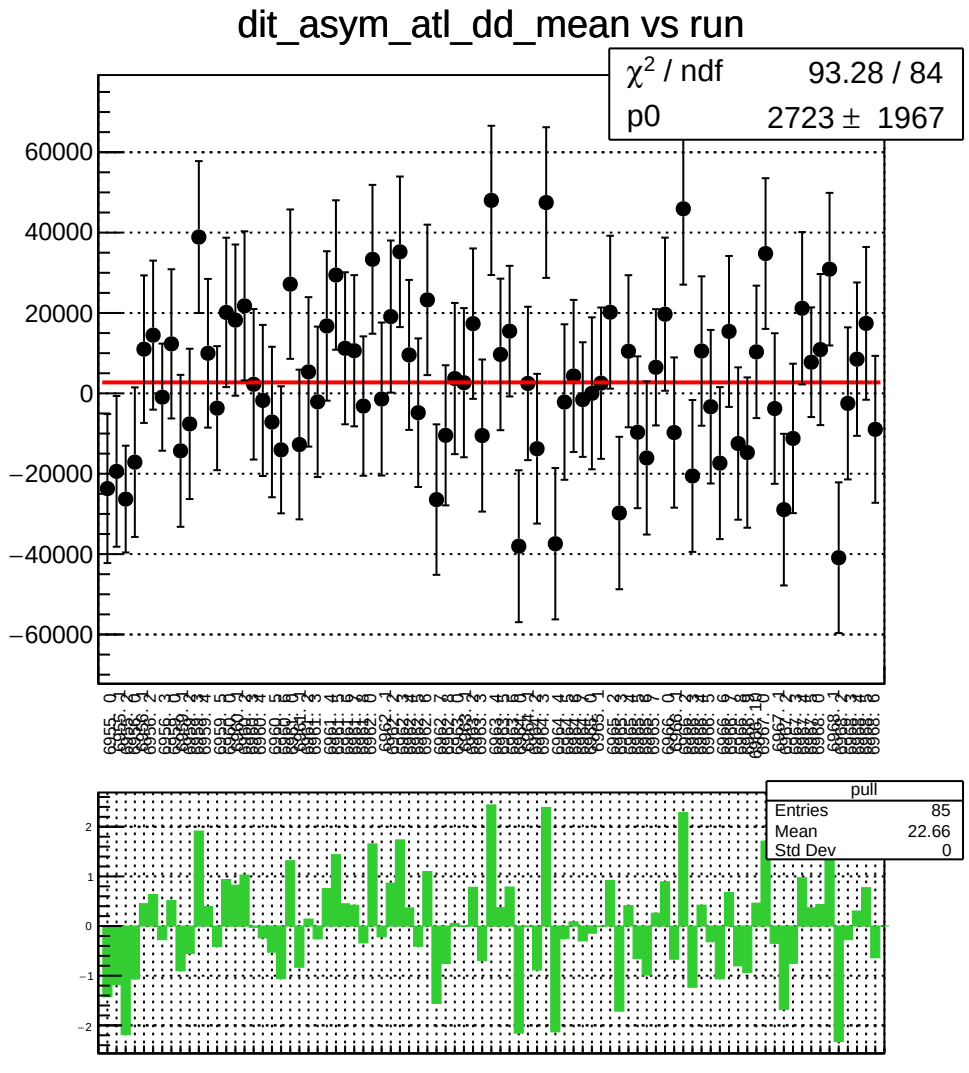

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 98.83 / 84
p0 2305 ± 1921
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −26.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.009404
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

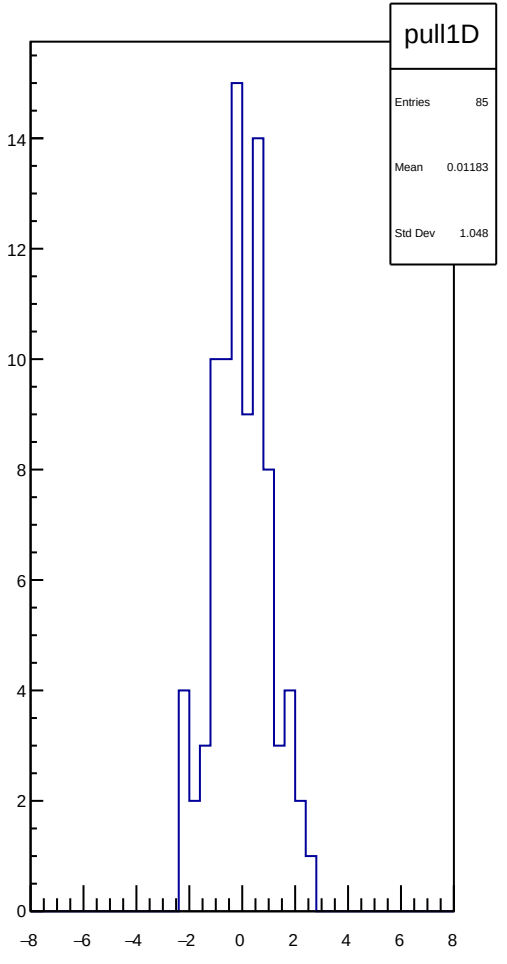

eigen_cor_asym_atl_dd_rms vs run
$\chi^2$ / ndf 115.4 / 84
p0 1741 ± 1.358
1800
1780
1760
1740
1720
1700

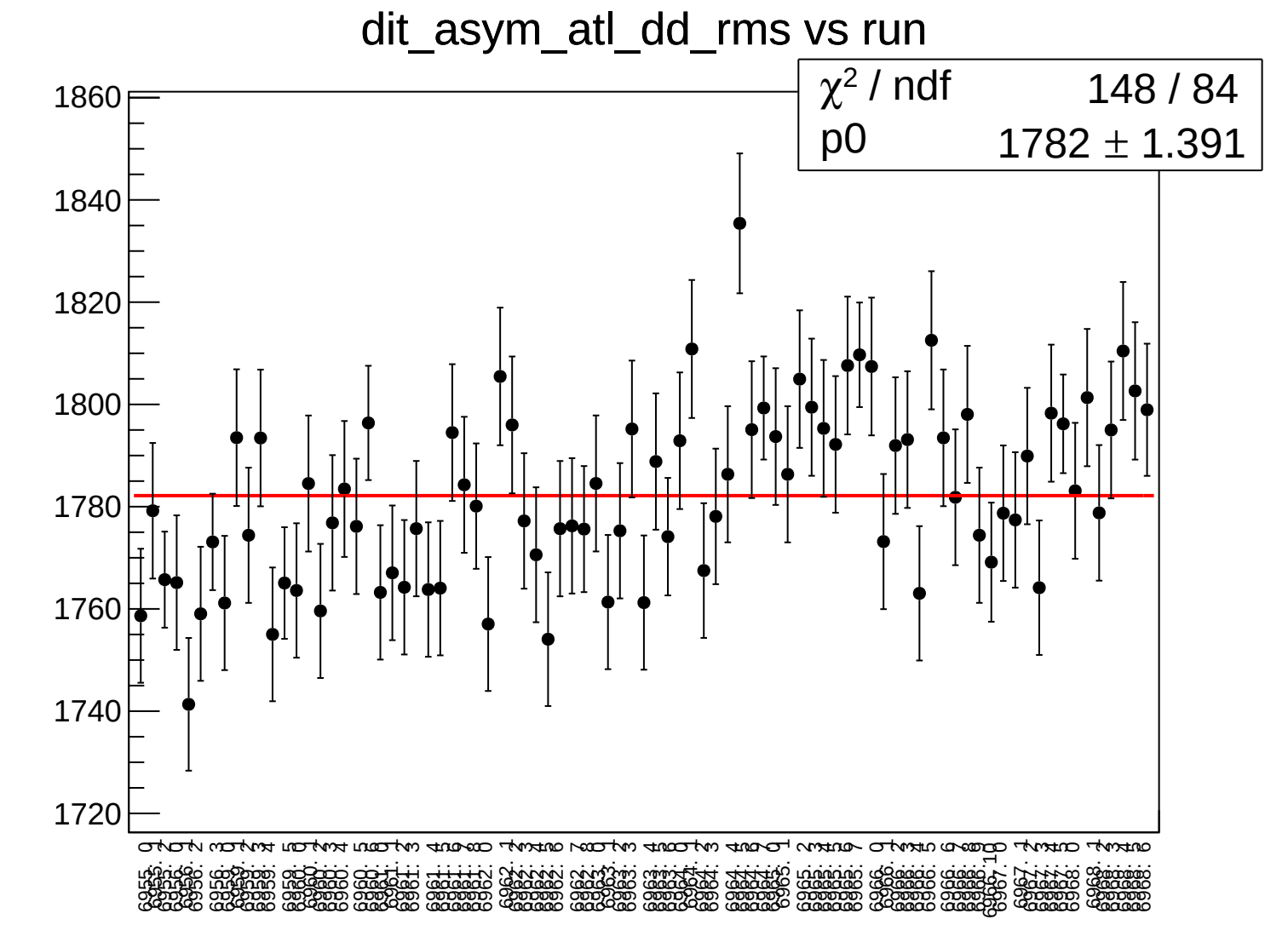

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.3 / 84
p0 2998 ± 6170
×10³
200
100
0
−100
−200
pull
Entries 85
Mean 35.64
Std Dev 71.26
2
1
0
−1
−2

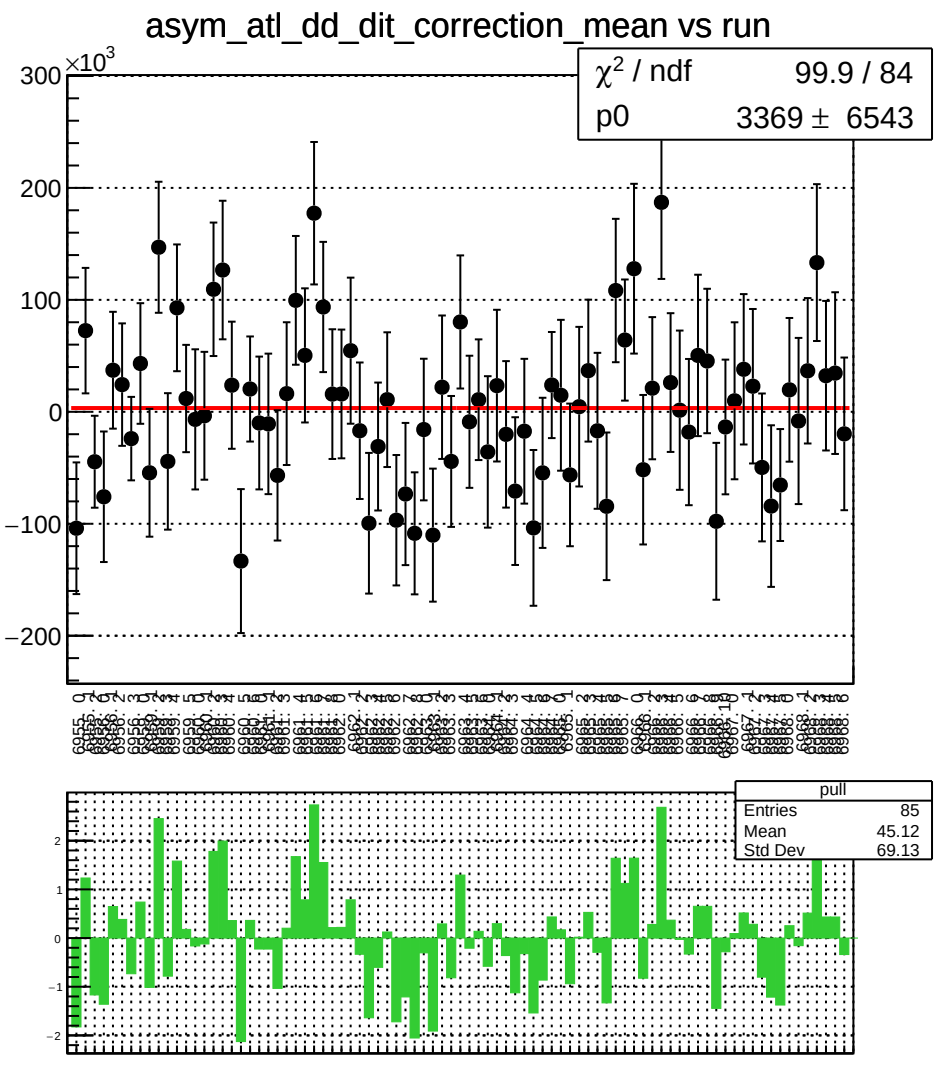

pull1D
Entries 85
Mean 0.009657
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

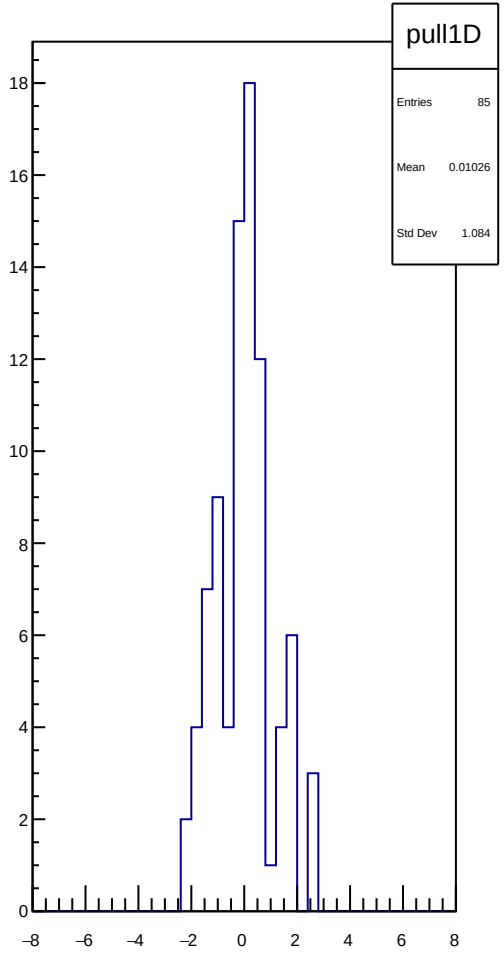

asym_atl_dd_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 1.196e+04 / 84
p0 5571 ± 4.363
7000
6500
6000
5500
5000
4500

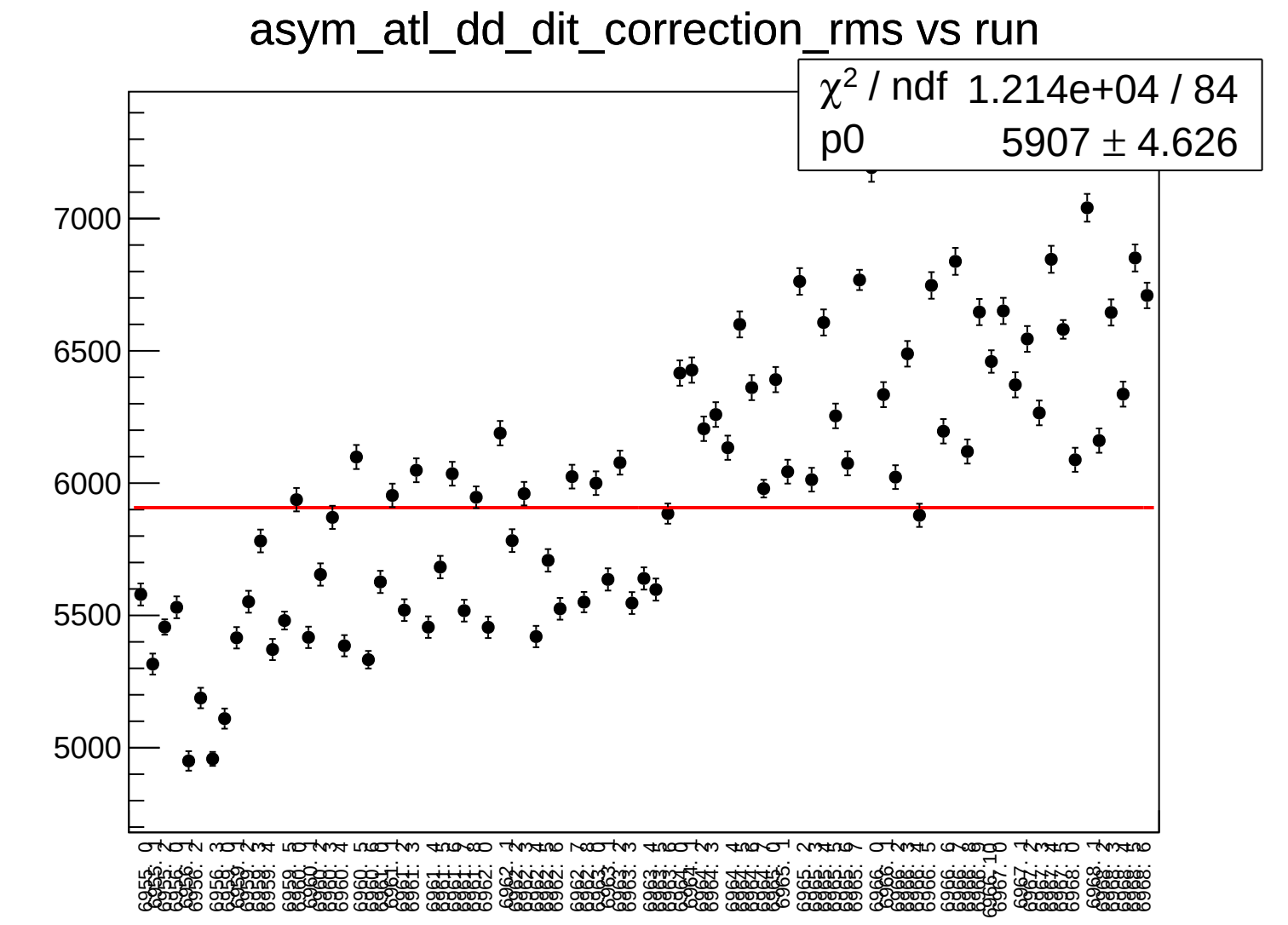

dit_asym_atl_dd_mean vs run
χ² / ndf 93.28 / 84
p0 2723 ± 1967
pull
Entries 85
Mean 22.66
Std Dev 0

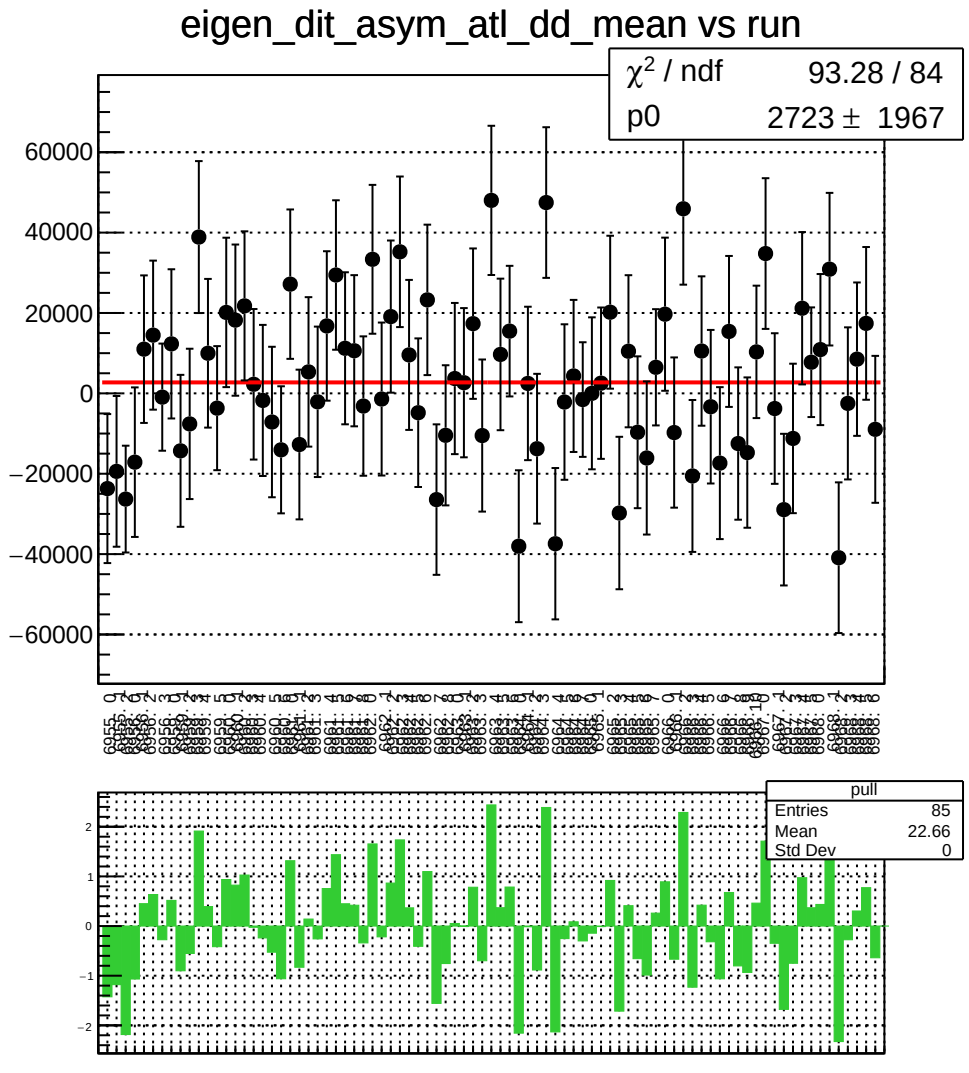

pull1D
Entries 85
Mean 0.01183
Std Dev 1.048

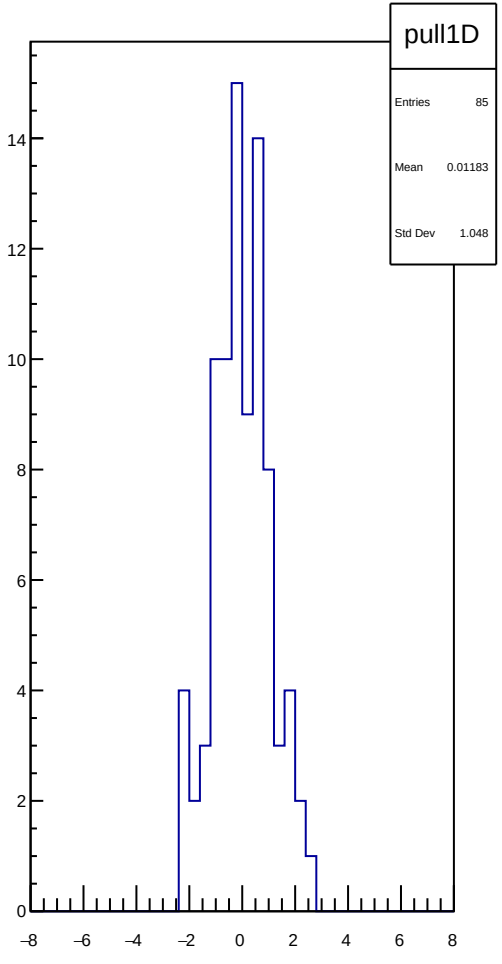

dit_asym_atl_dd_rms vs run
χ² / ndf 148 / 84
p0 1782 ± 1.391
1860
1840
1820
1800
1780
1760
1740
1720

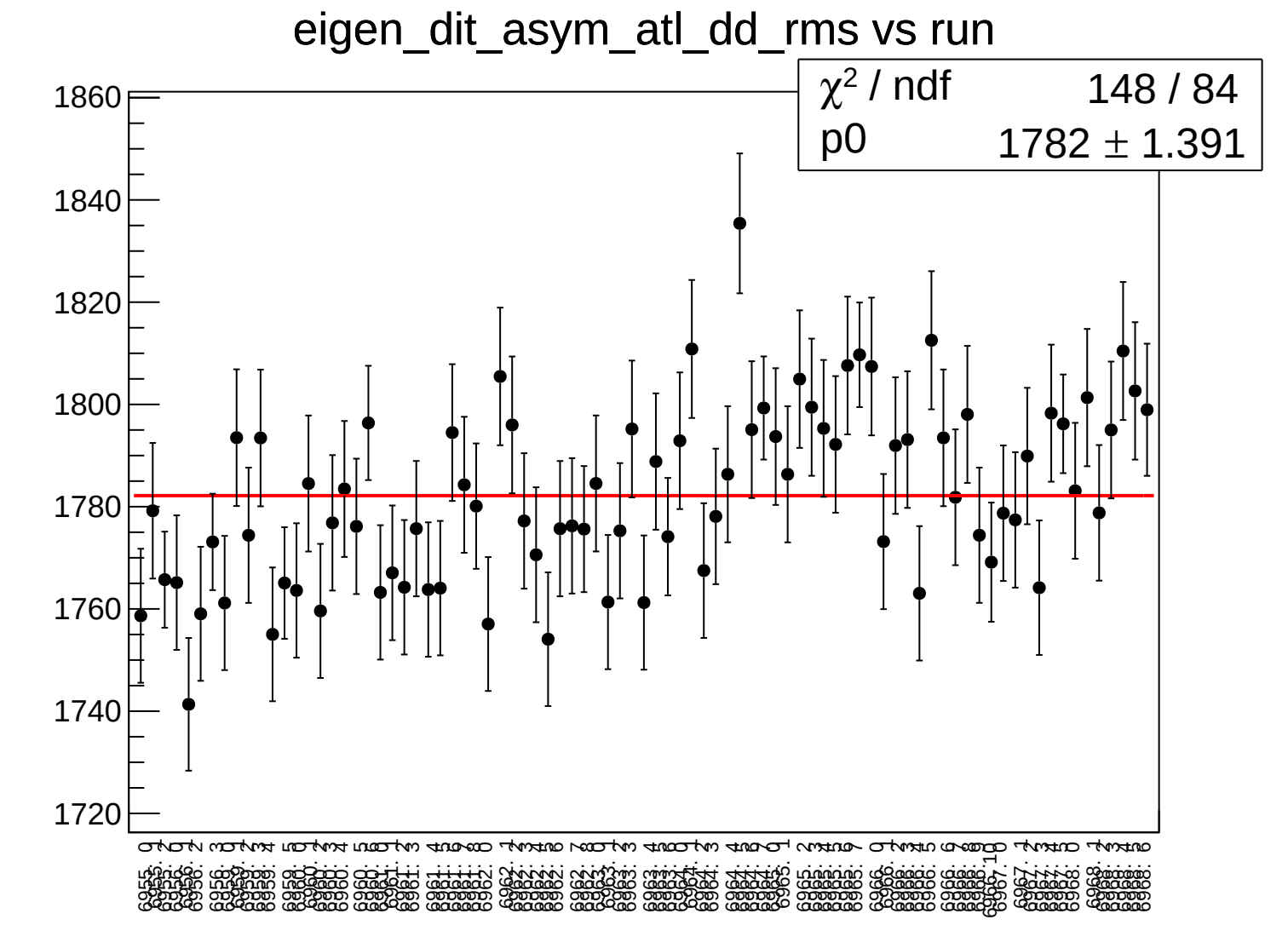

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 99.9 / 84
p0 3369 ± 6543
×10³
300
200
100
0
−100
−200
pull
Entries 85
Mean 45.12
Std Dev 69.13
2
1
0
−1
−2

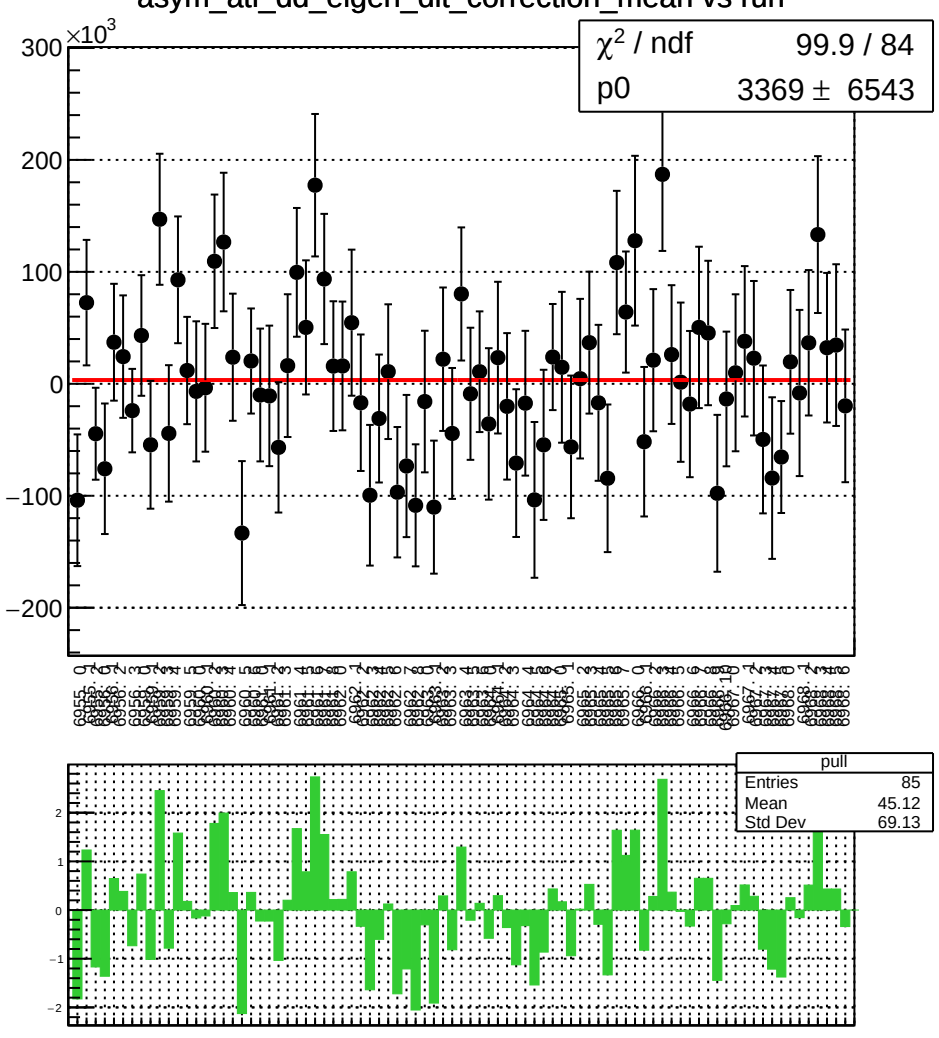

pull1D
Entries 85
Mean 0.01026
Std Dev 1.084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

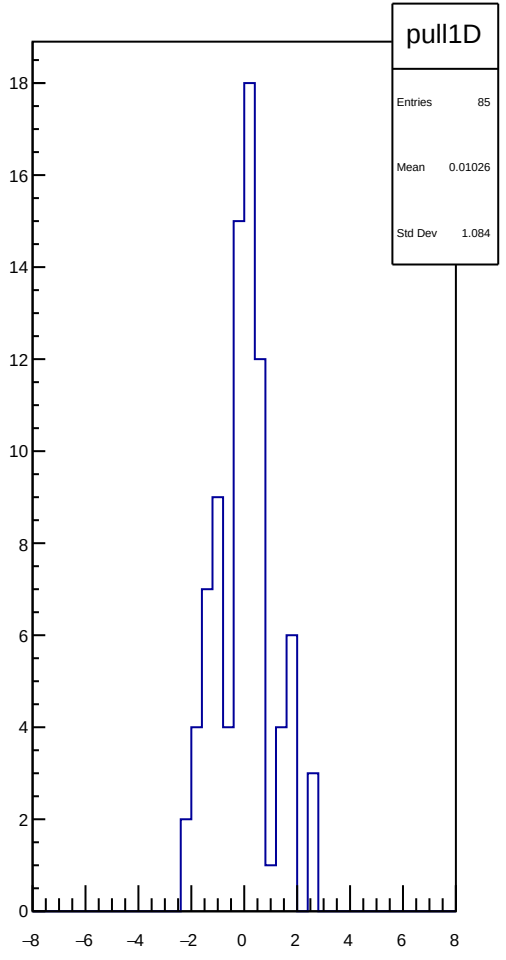

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1.214e+04 / 84
p0 5907 ± 4.626
7000
6500
6000
5500
5000

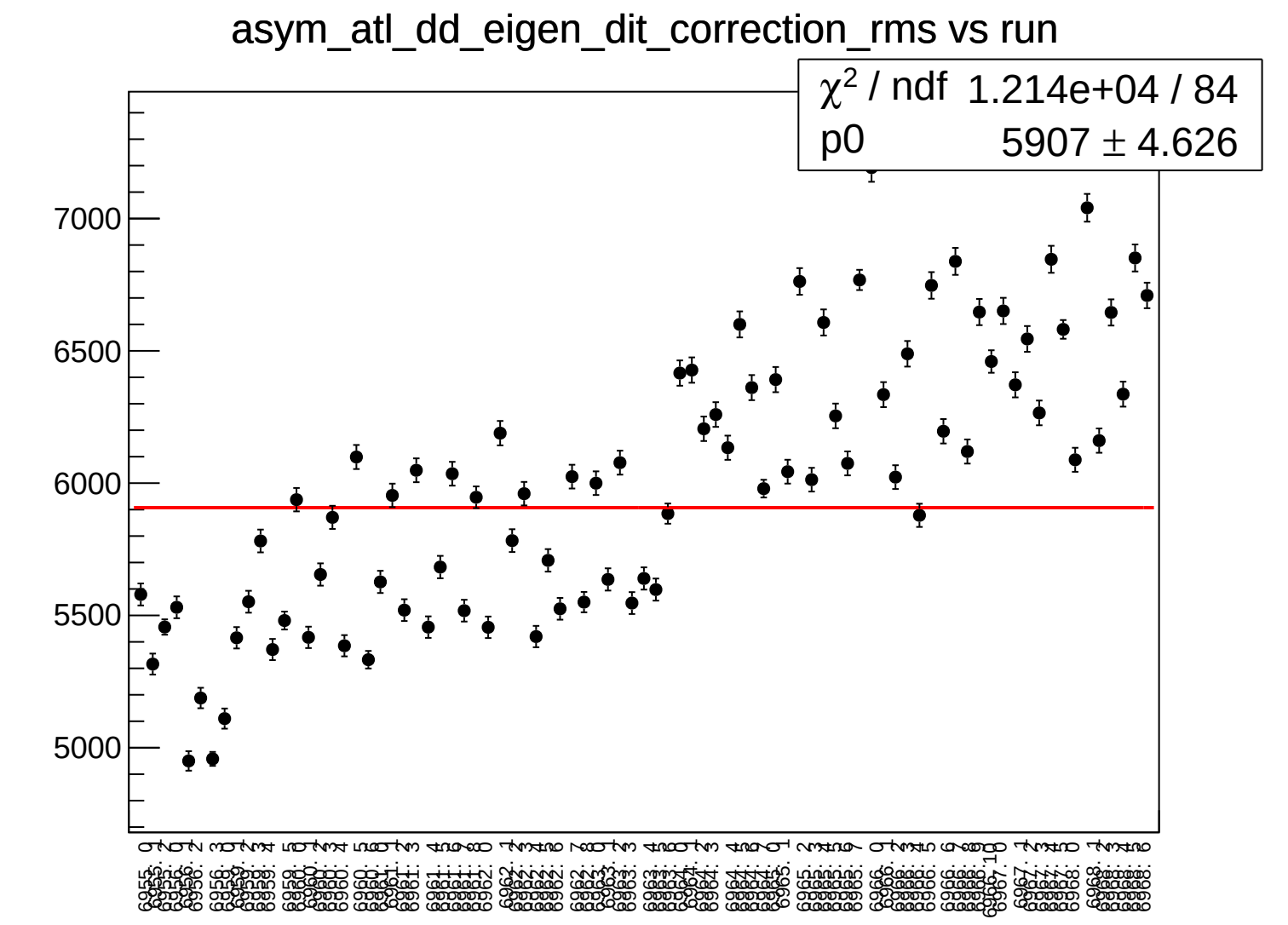

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 93.28 / 84
p0 2723 ± 1967
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 22.66
Std Dev 0
2
1
0
−1
−2

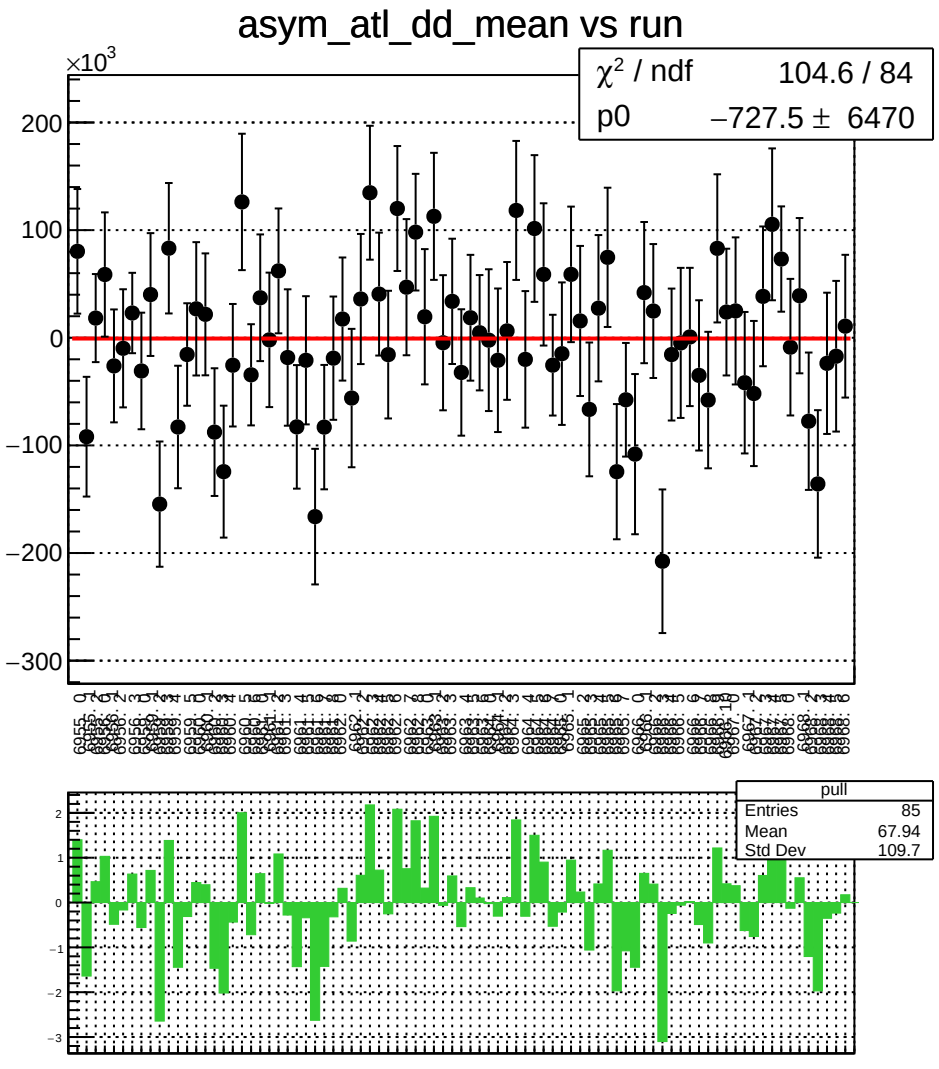

pull1D
Entries 85
Mean 0.01183
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

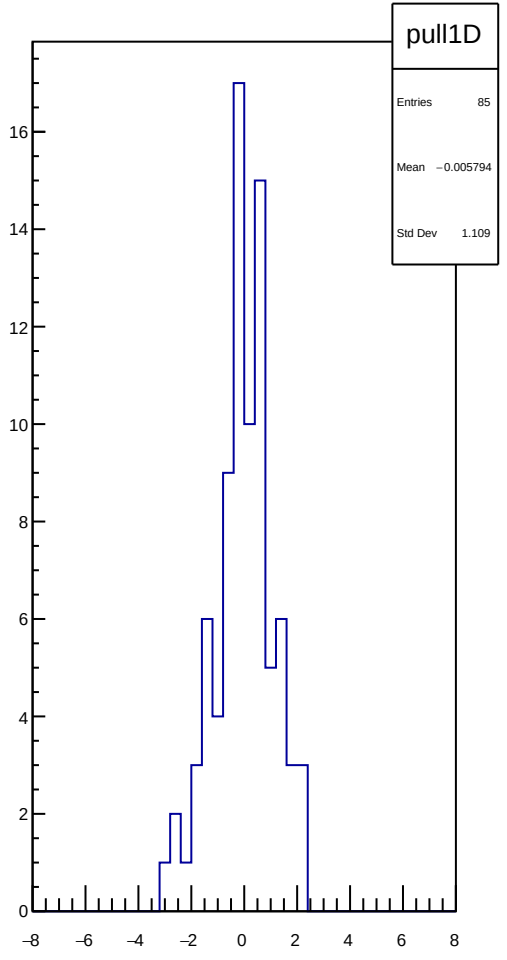

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 148 / 84
p0 1782 ± 1.391
1860
1840
1820
1800
1780
1760
1740
1720

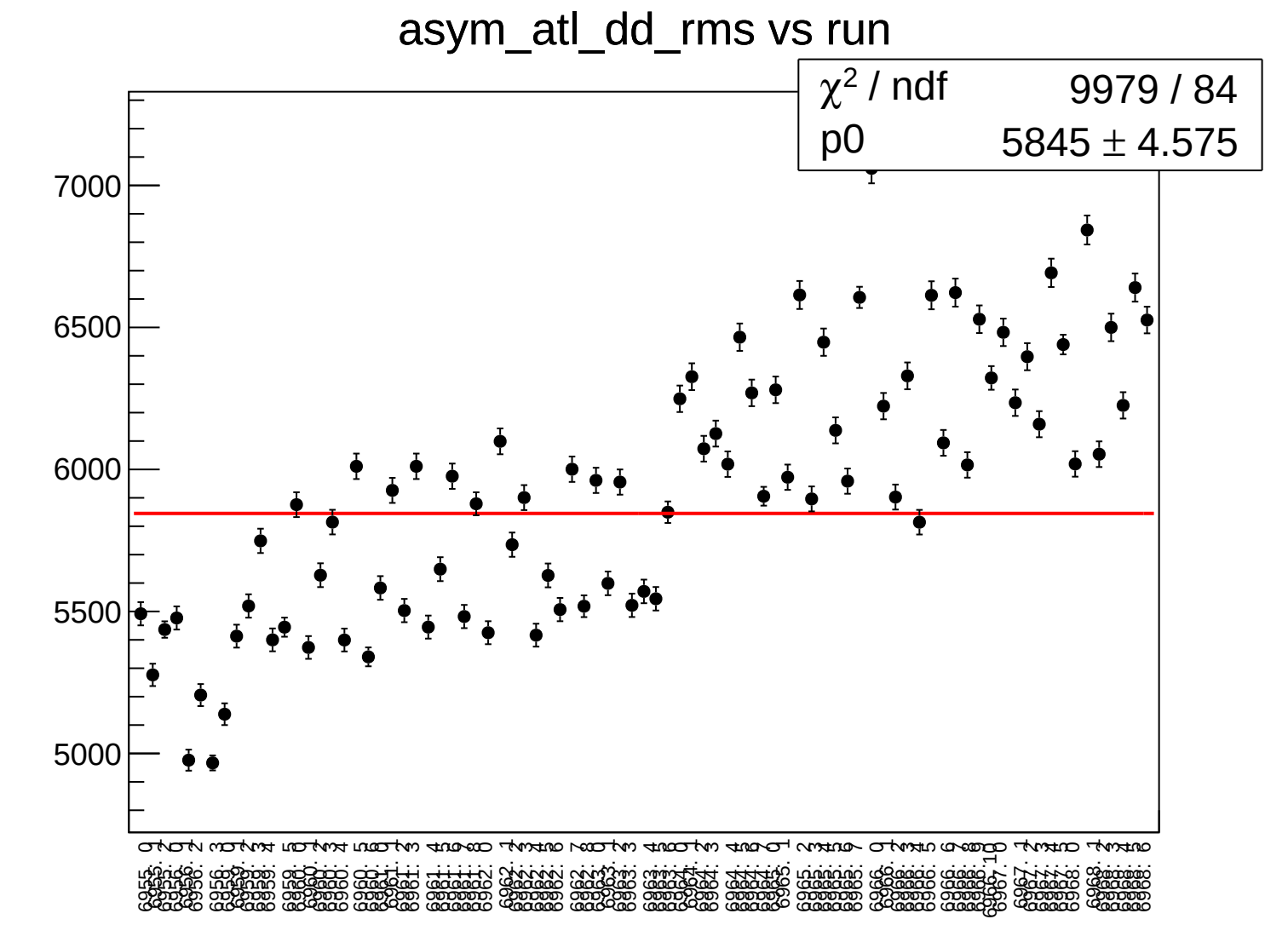

asym_atl_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.9 / 84
p0 3369 ± 6543
×10³
pull
Entries 85
Mean 45.12
Std Dev 69.13

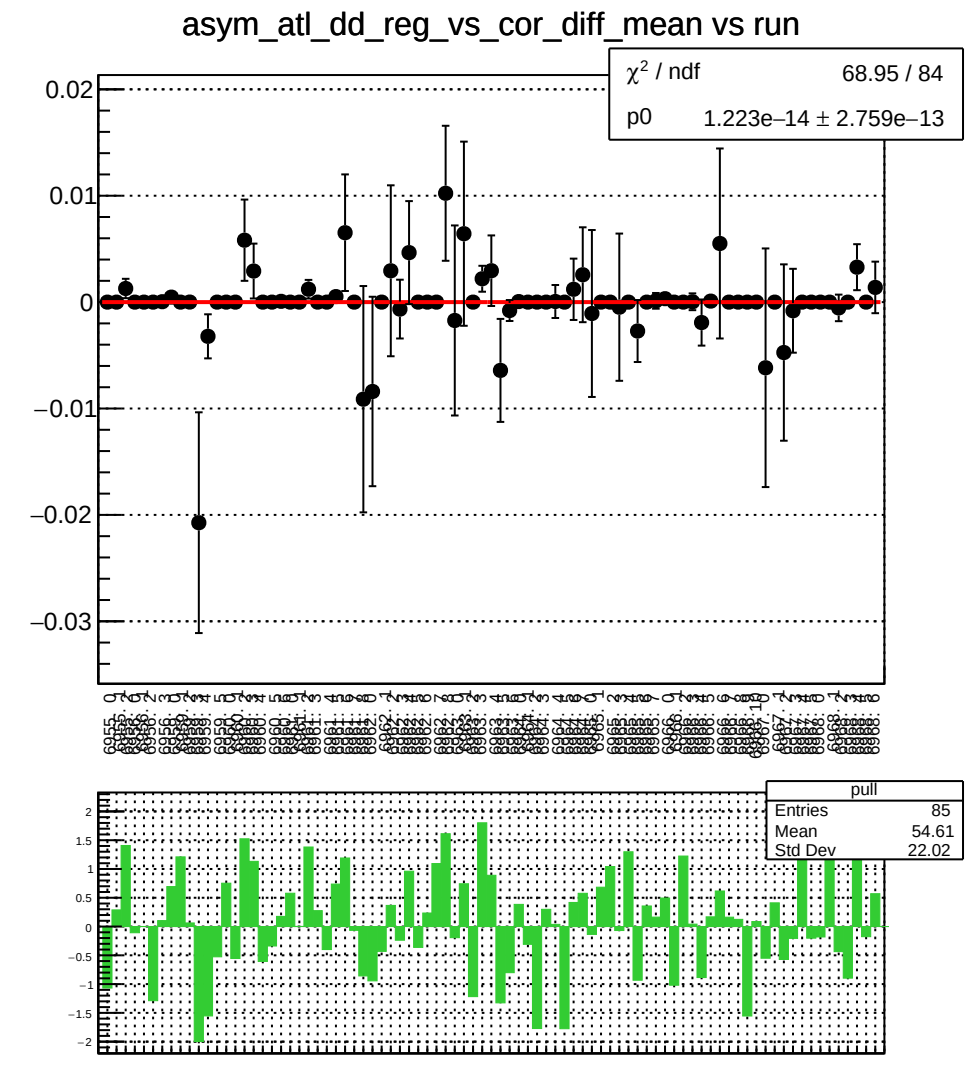

pull1D
Entries 85
Mean 0.01026
Std Dev 1.084

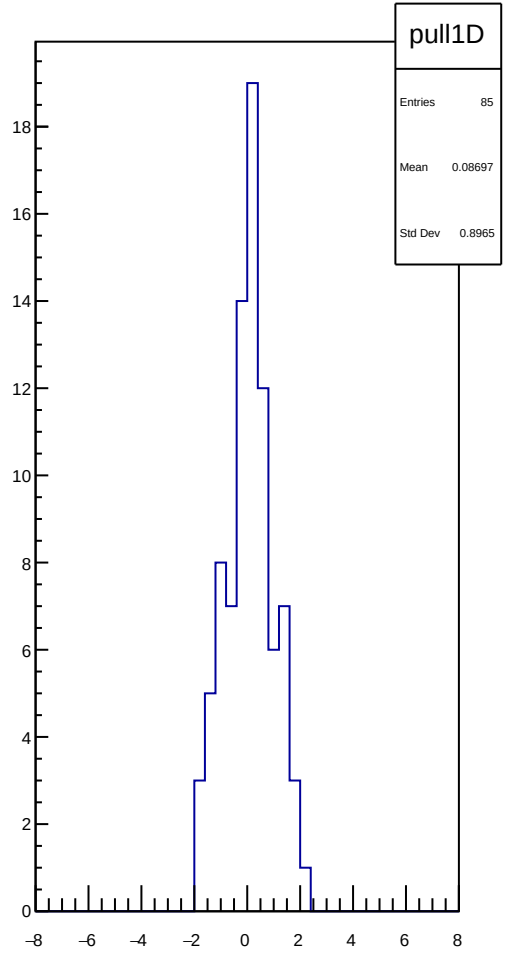

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.214e+04 / 84
p0 5907 ± 4.626
7000
6500
6000
5500
5000

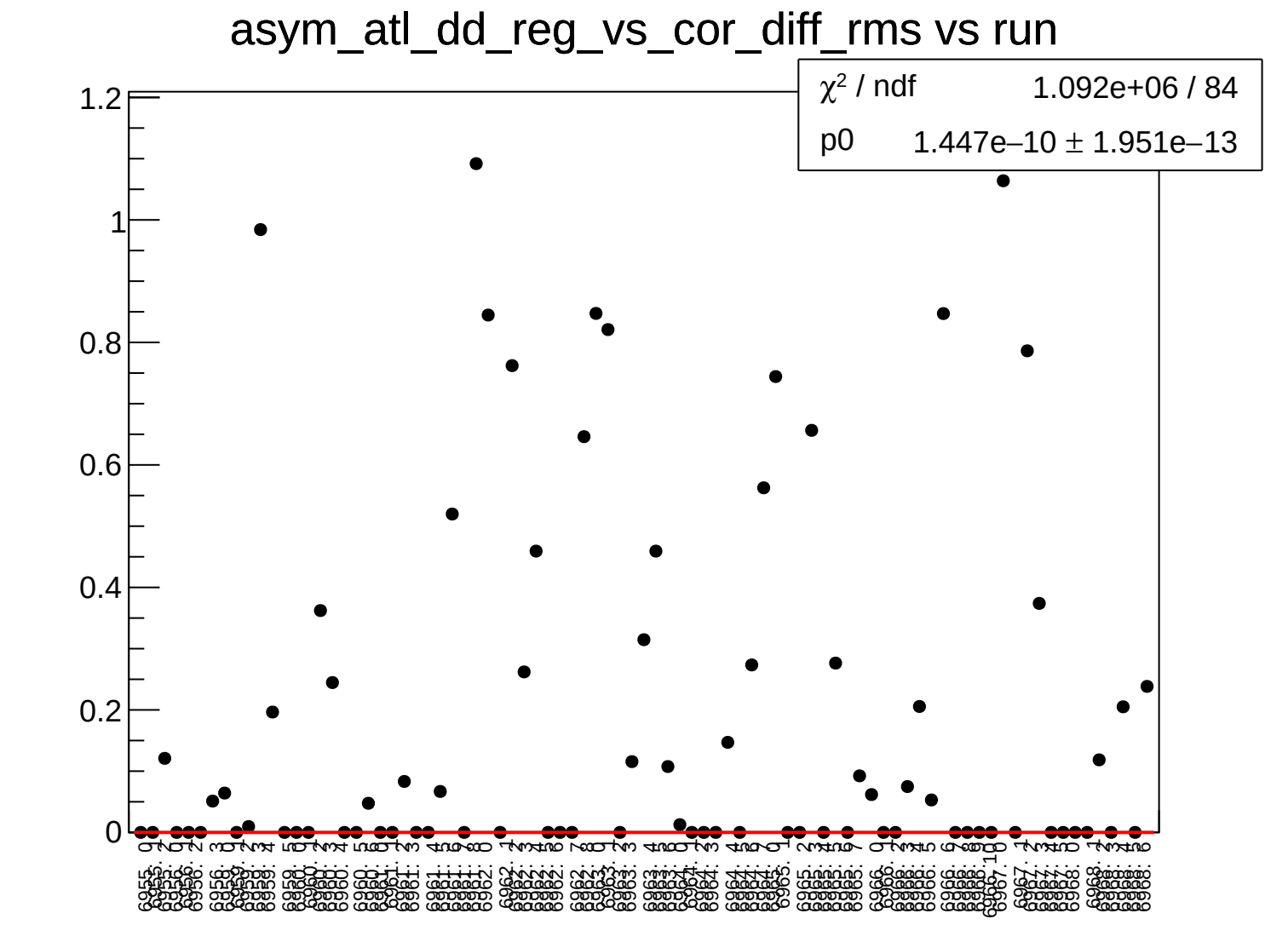

asym_atl_dd_mean vs run
×10^3
χ² / ndf 104.6 / 84
p0 −727.5 ± 6470
200
100
0
−100
−200
−300
pull
Entries 85
Mean 67.94
Std Dev 109.7
2
1
0
−1
−2
−3

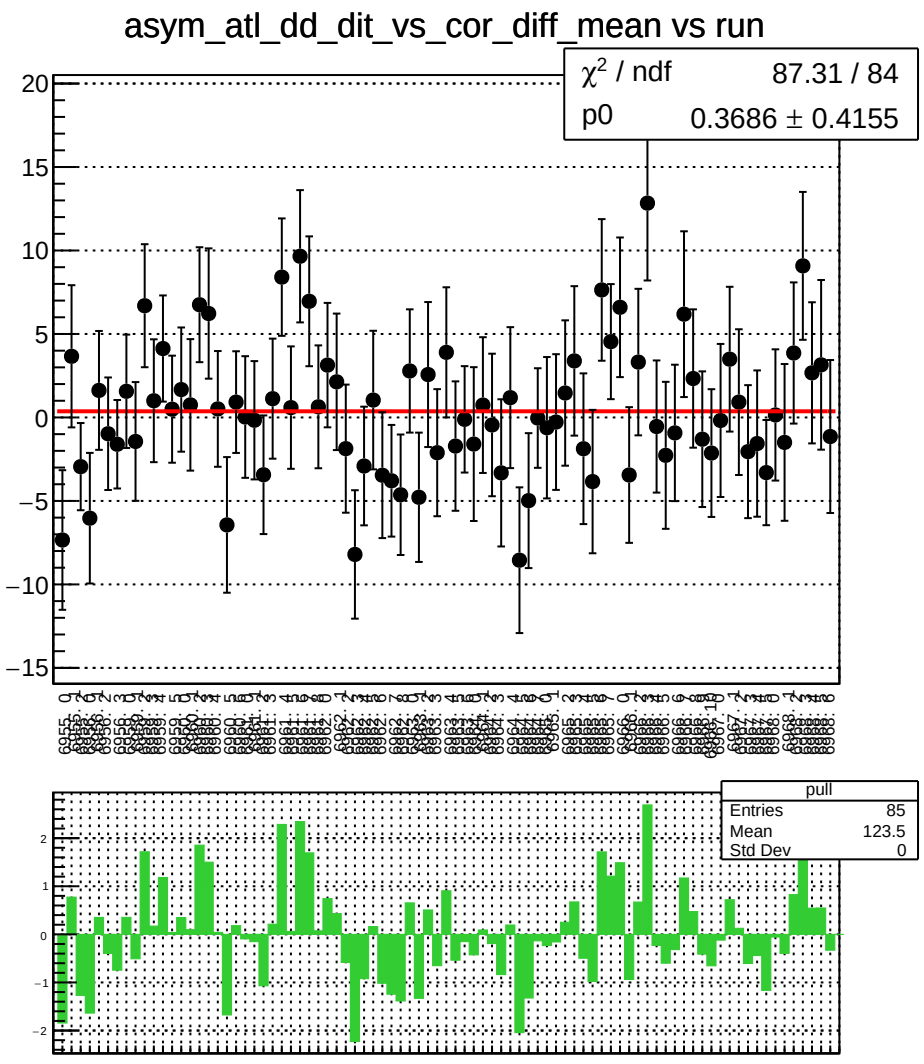

pull1D
Entries 85
Mean −0.005794
Std Dev 1.109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

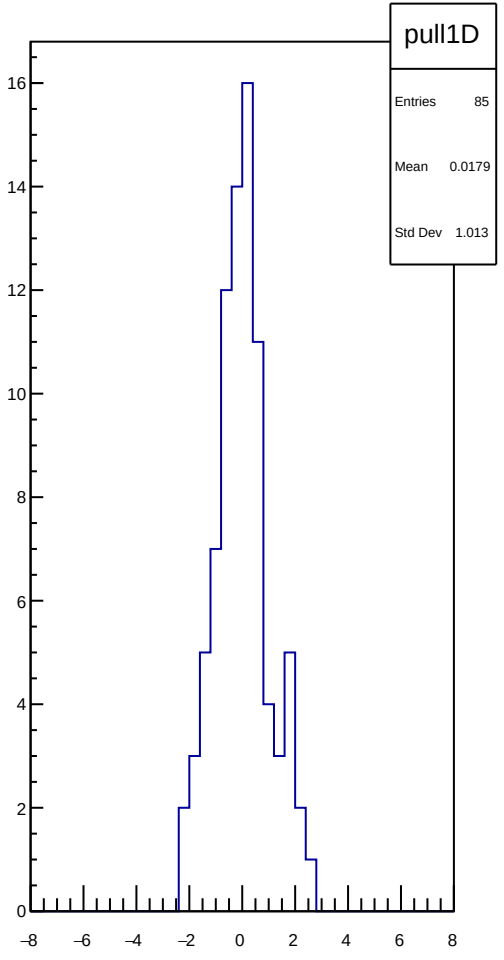

asym_atl_dd_rms vs run
$\chi^2$ / ndf 9979 / 84
p0 5845 ± 4.575
7000
6500
6000
5500
5000

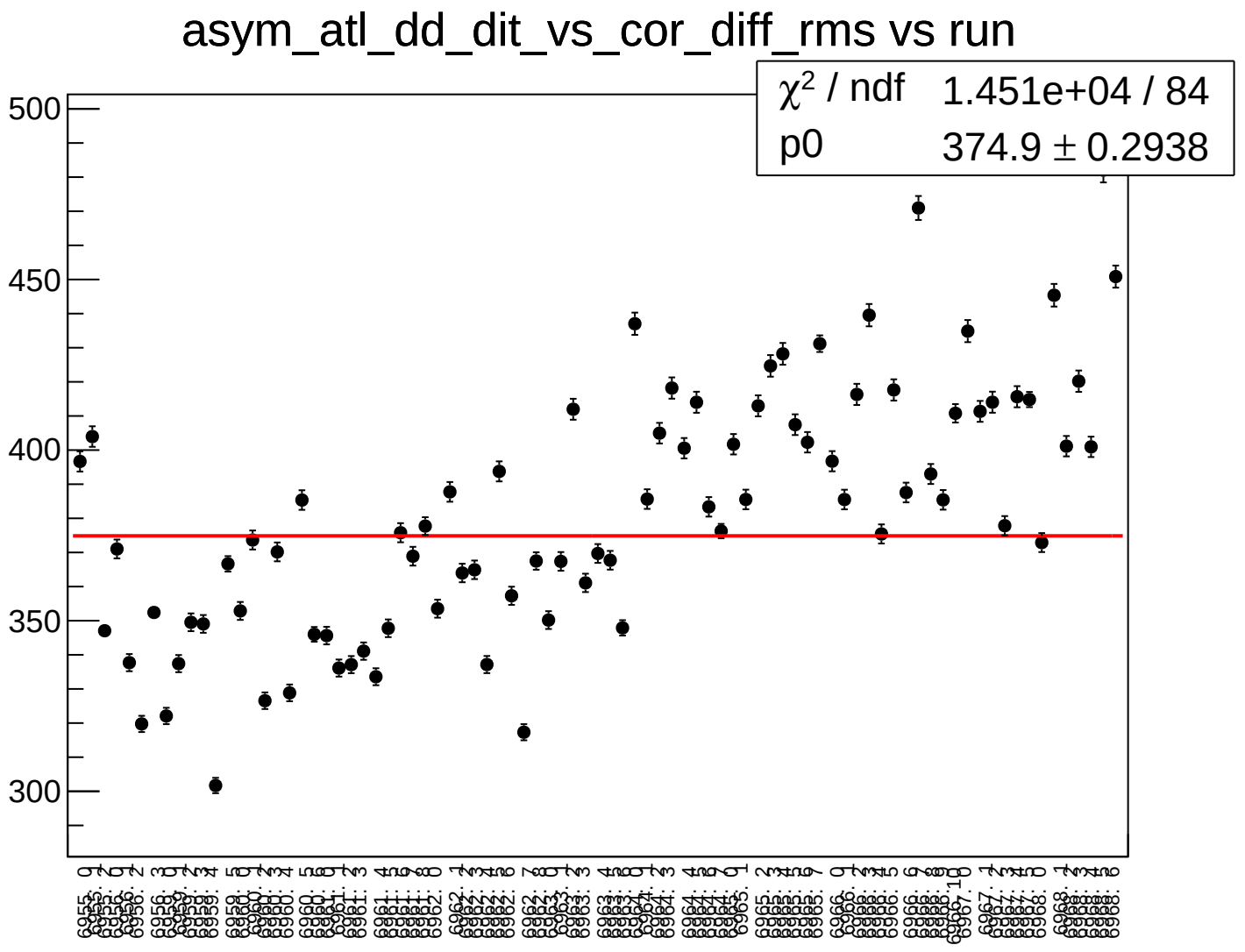

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.95 / 84
p0 1.223e−14 ± 2.759e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean 54.61
Std Dev 22.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

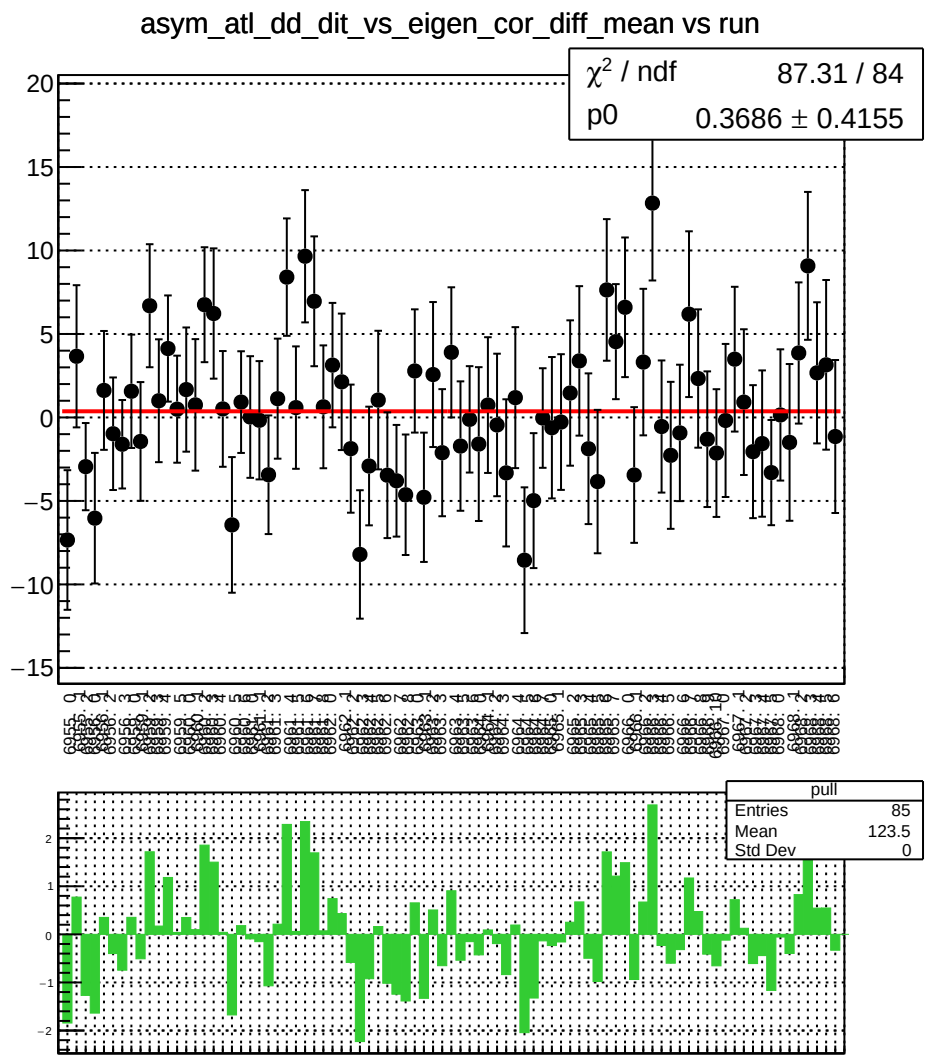

pull1D
Entries 85
Mean 0.08697
Std Dev 0.8965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

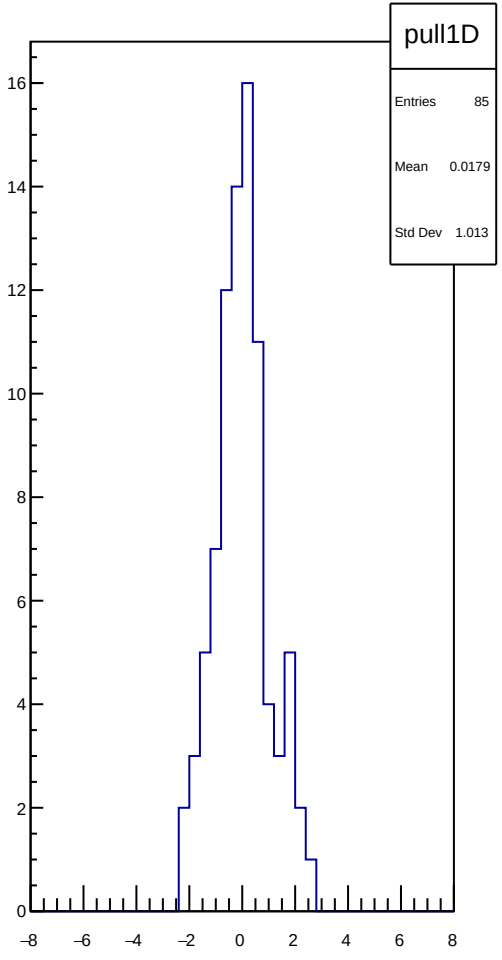

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.092e+06 / 84
p0 1.447e−10 ± 1.951e−13
1.2
1
0.8
0.6
0.4
0.2
0

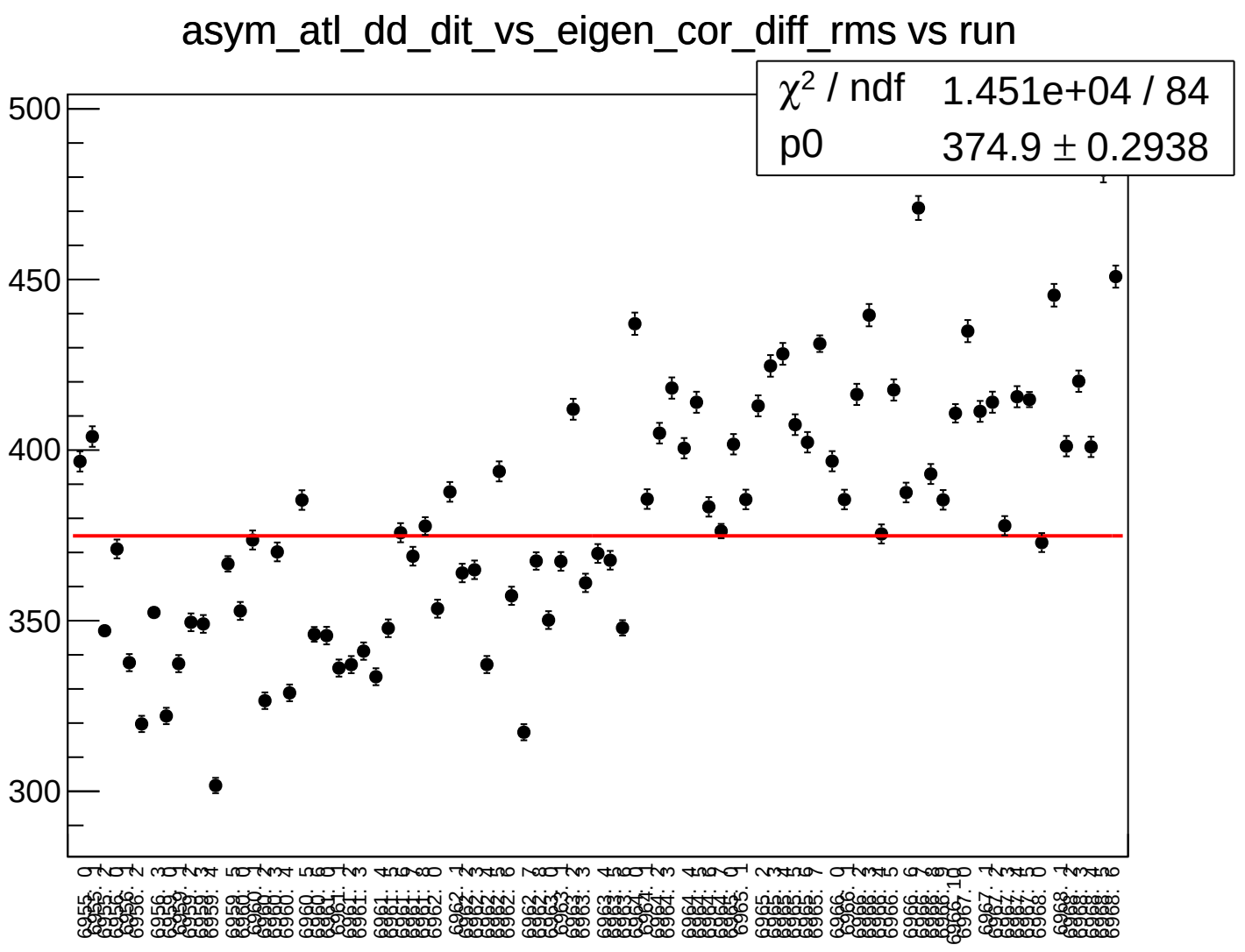

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.31 / 84
p0 0.3686 ± 0.4155
pull
Entries 85
Mean 123.5
Std Dev 0

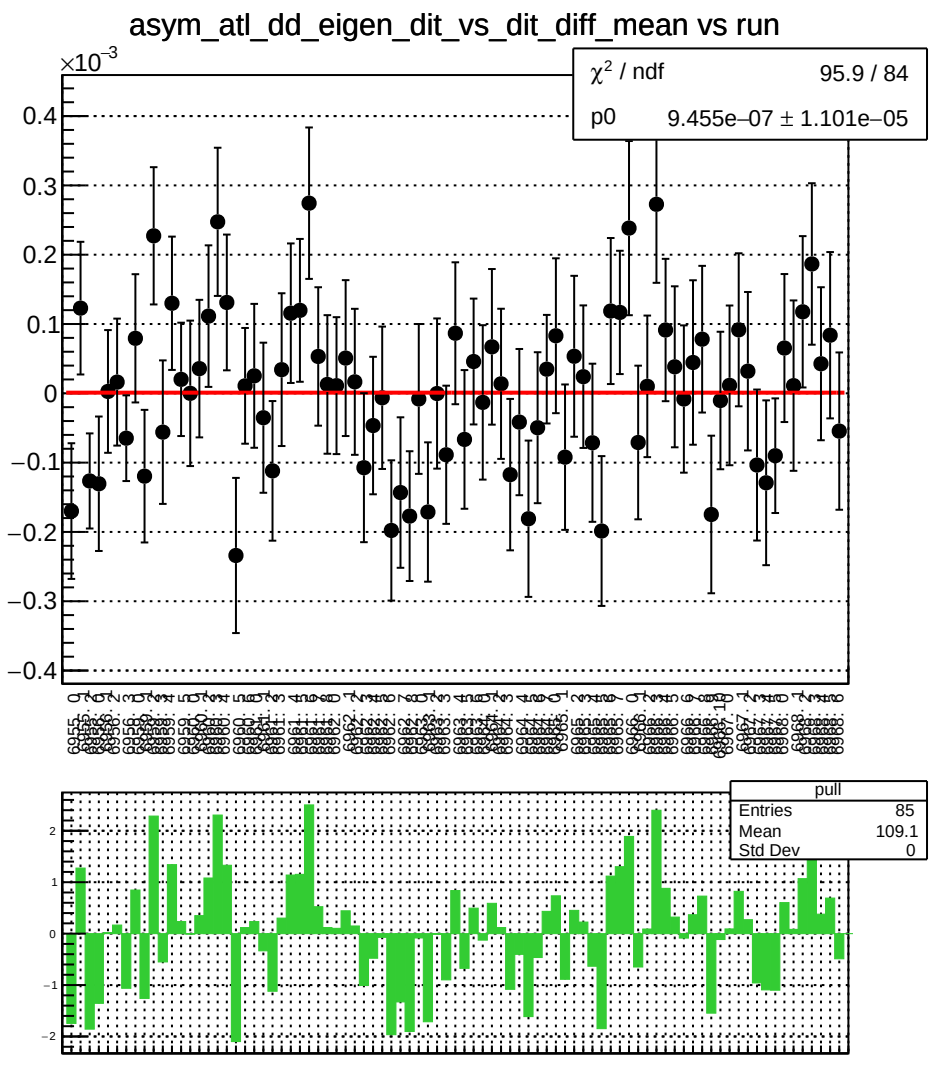

pull1D
Entries 85
Mean 0.0179
Std Dev 1.013

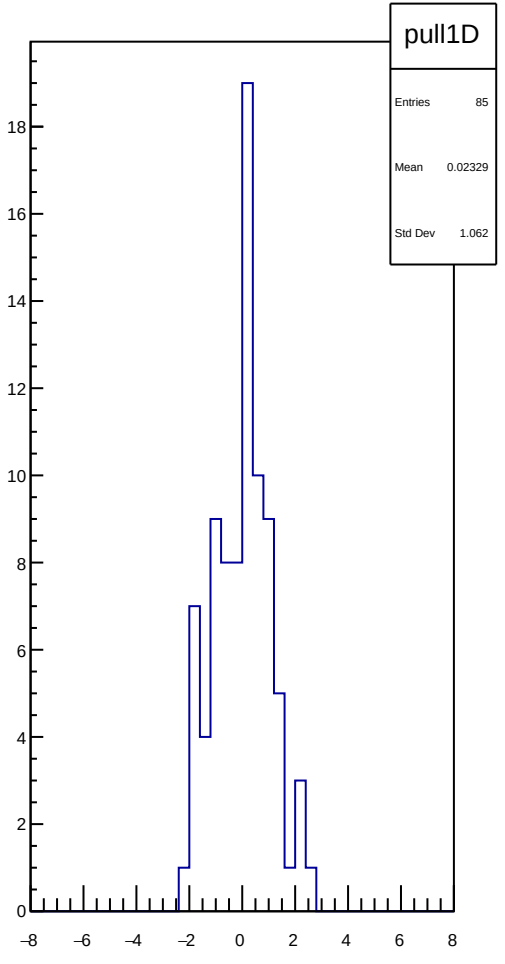

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.451e+04 / 84
p0 374.9 ± 0.2938
500
450
400
350
300

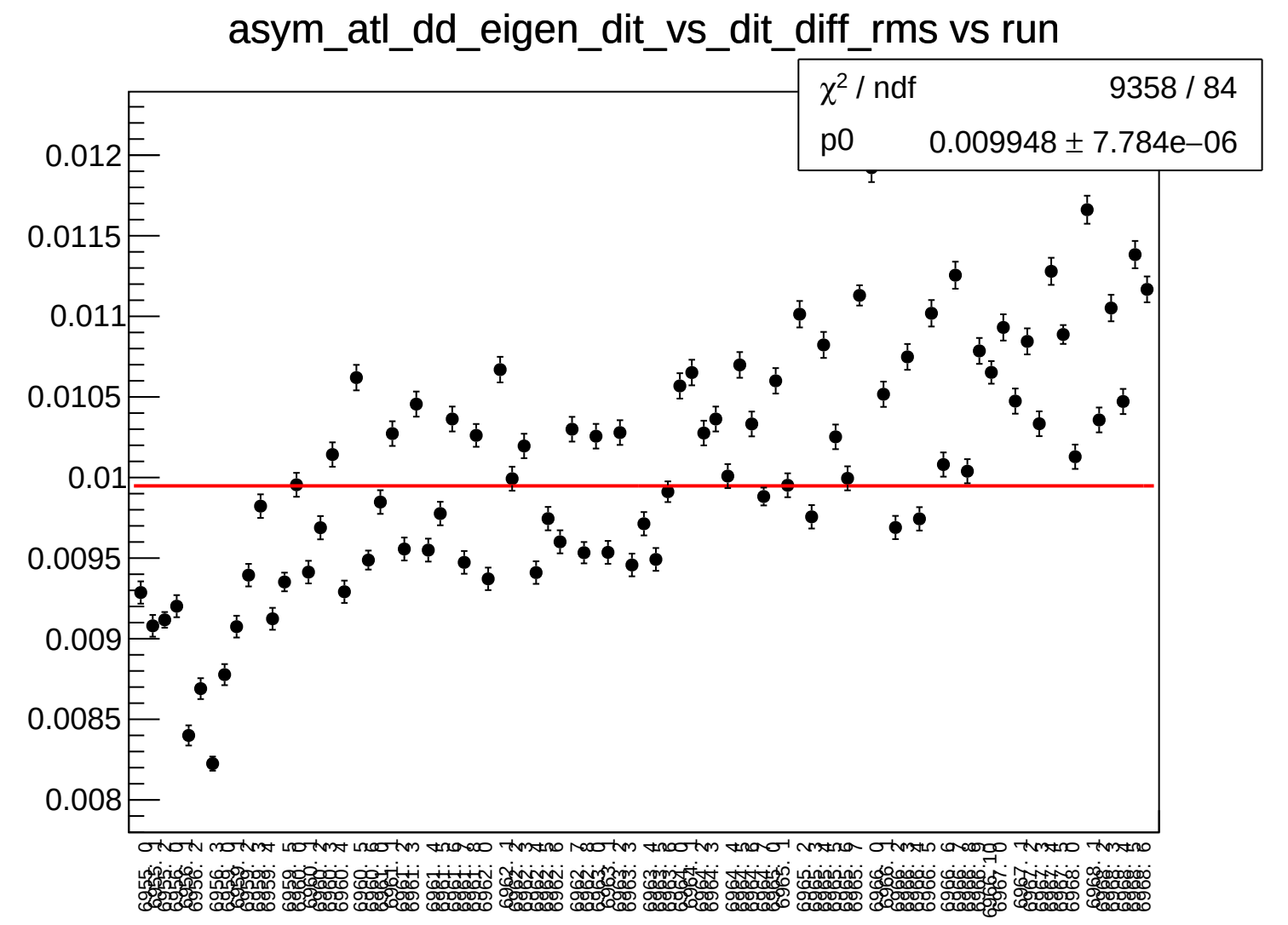

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.31 / 84
p0 0.3686 ± 0.4155
pull
Entries 85
Mean 123.5
Std Dev 0

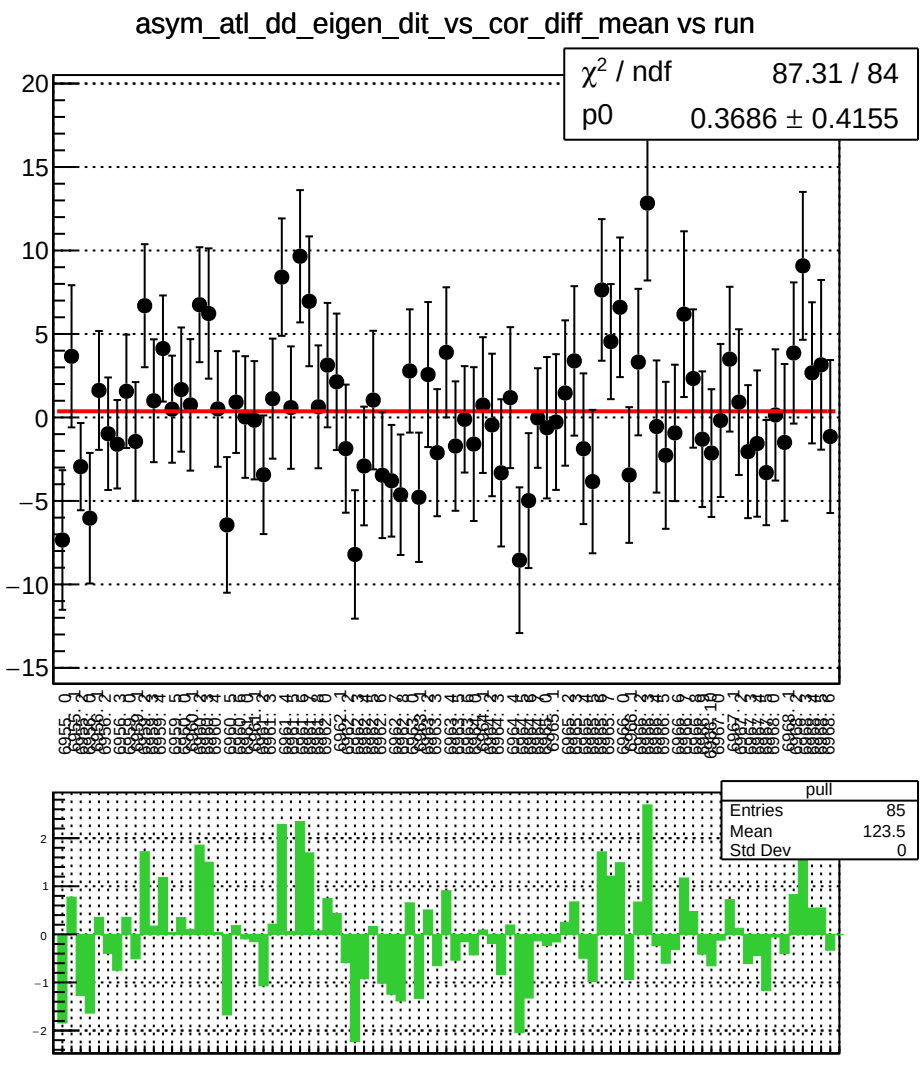

pull1D
Entries 85
Mean 0.0179
Std Dev 1.013

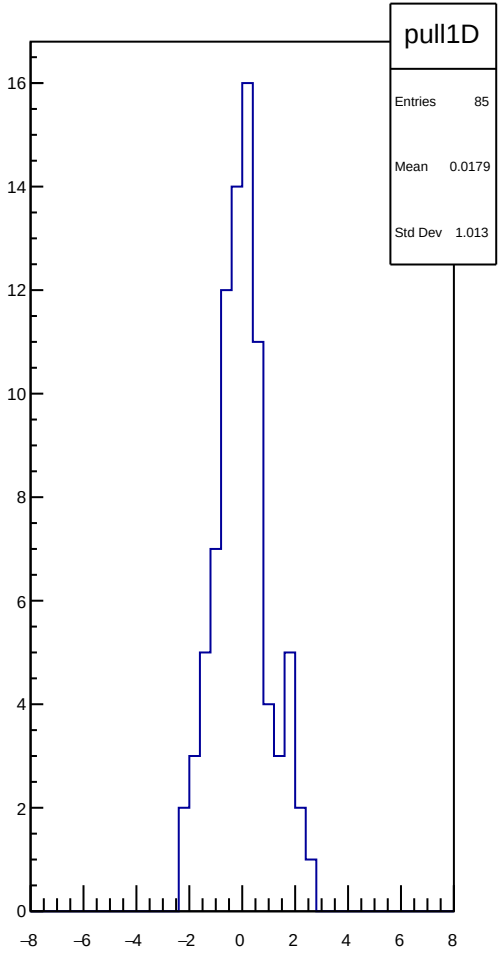

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.451e+04 / 84
p0 374.9 ± 0.2938
500
450
400
350
300

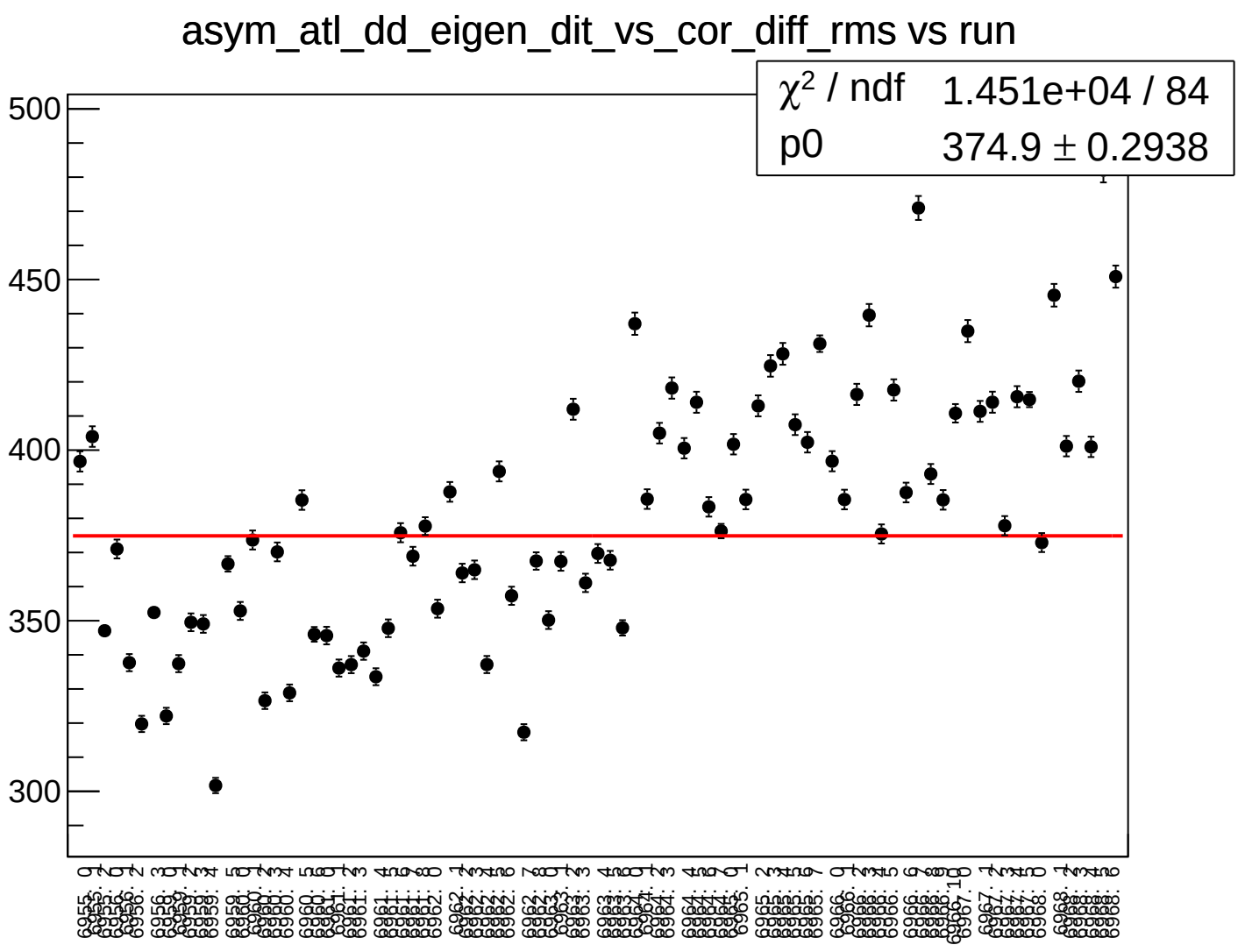

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.9 / 84
p0 9.455e−07 ± 1.101e−05
pull
Entries 85
Mean 109.1
Std Dev 0


pull1D
Entries 85
Mean 0.02329
Std Dev 1.062

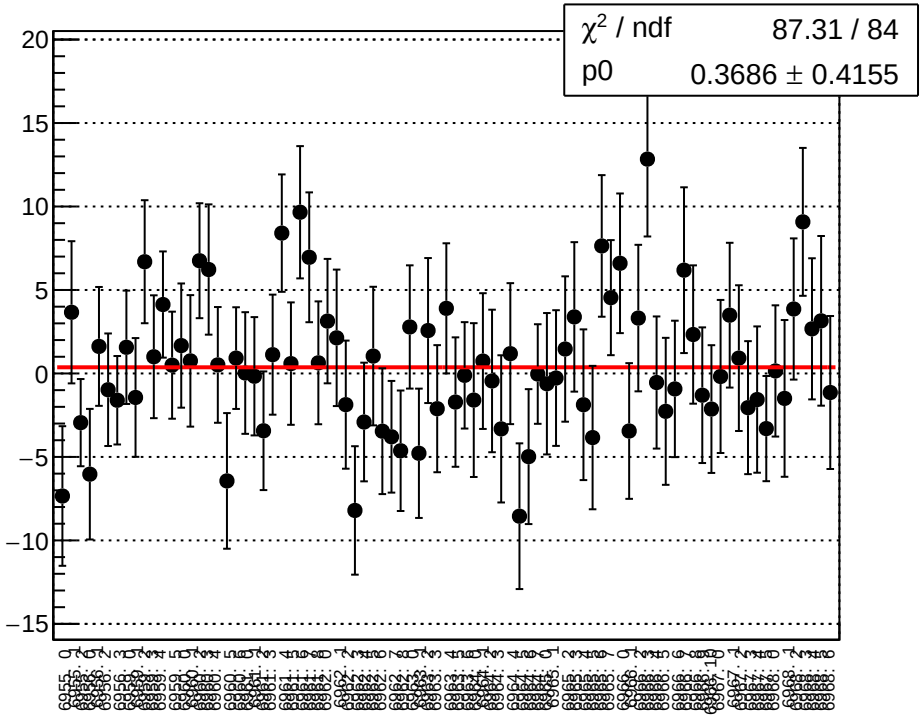

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9358 / 84
p0 0.009948 ± 7.784e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

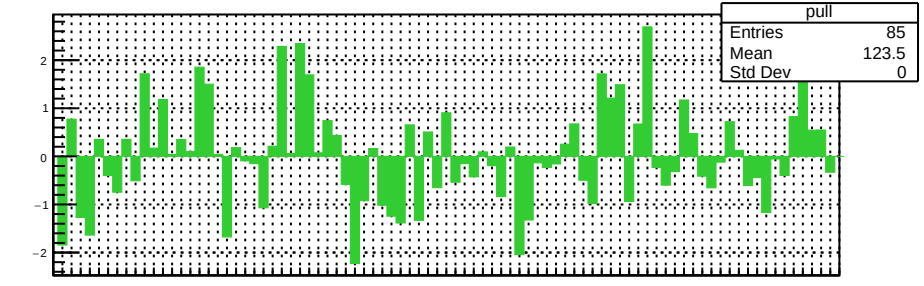

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.31 / 84
p0 0.3686 ± 0.4155
pull
Entries 85
Mean 123.5
Std Dev 0

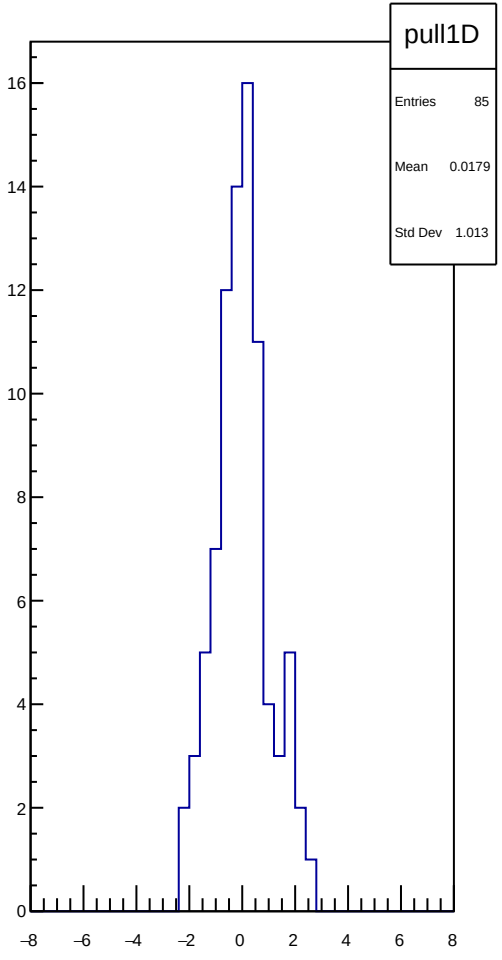

pull1D
Entries 85
Mean 0.0179
Std Dev 1.013

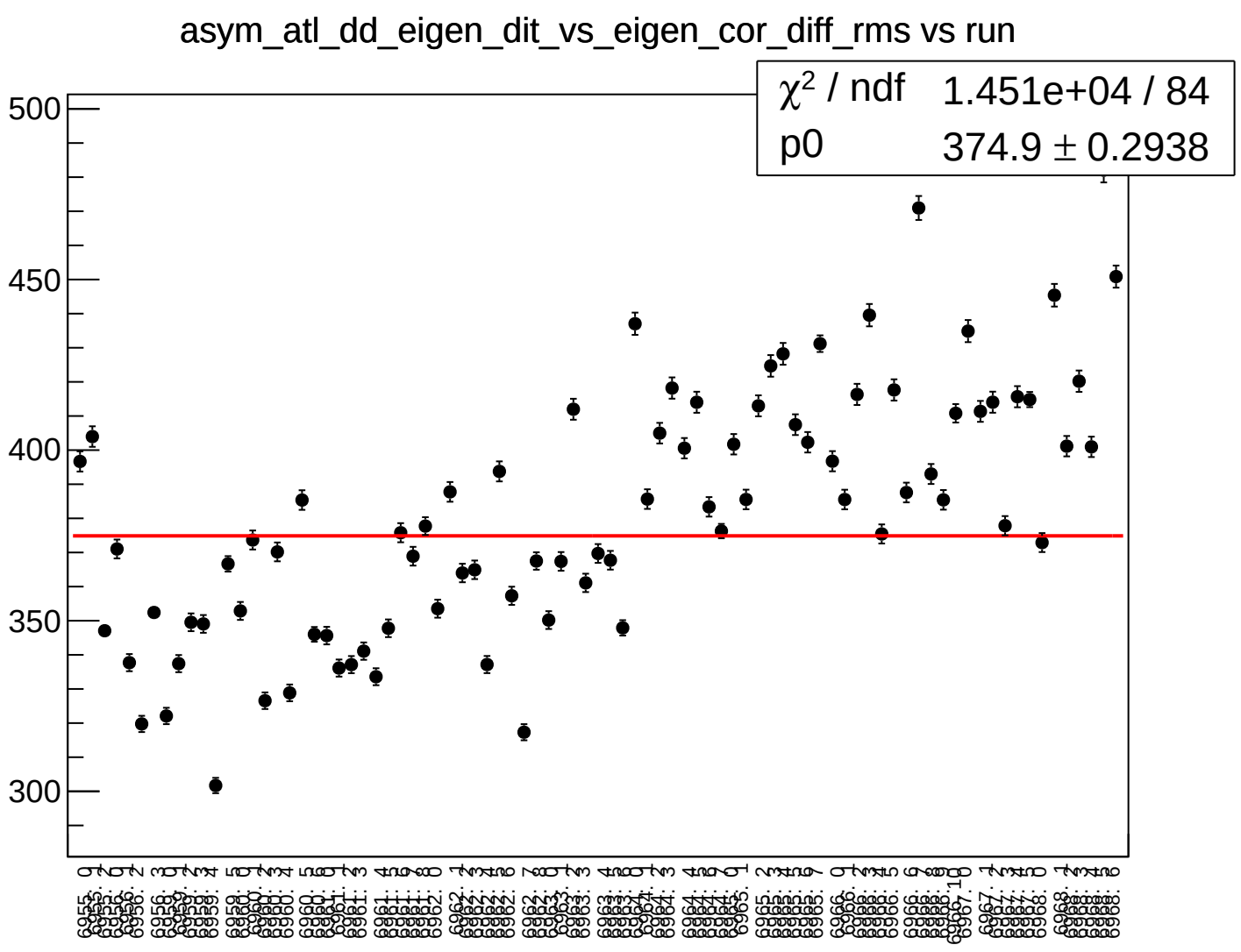

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.451e+04 / 84
p0 374.9 ± 0.2938
500
450
400
350
300

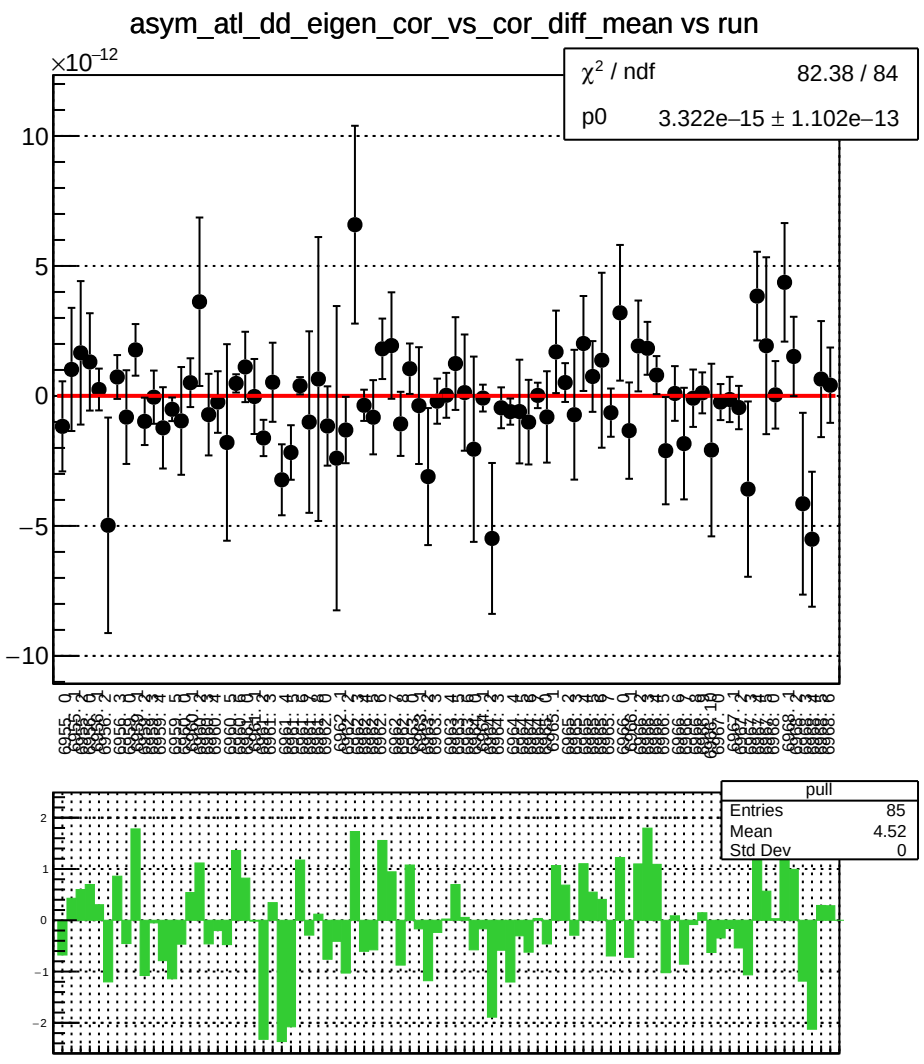
asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

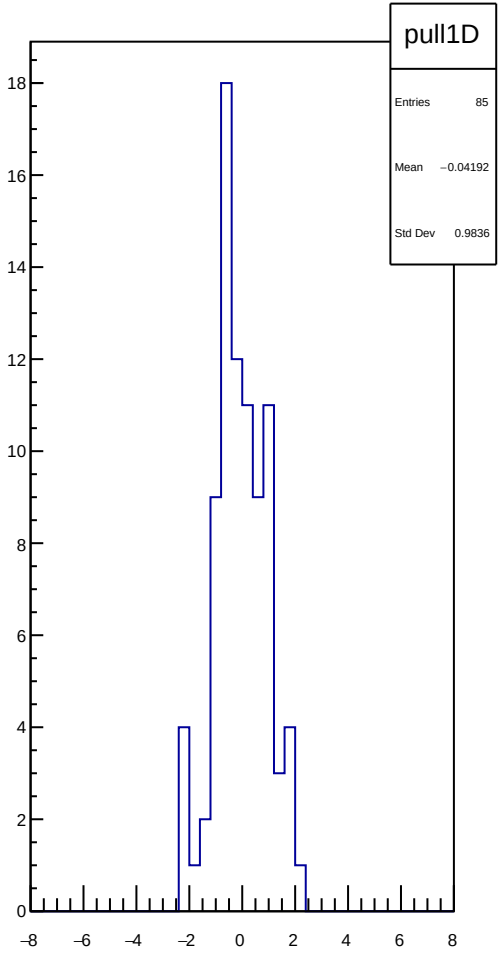


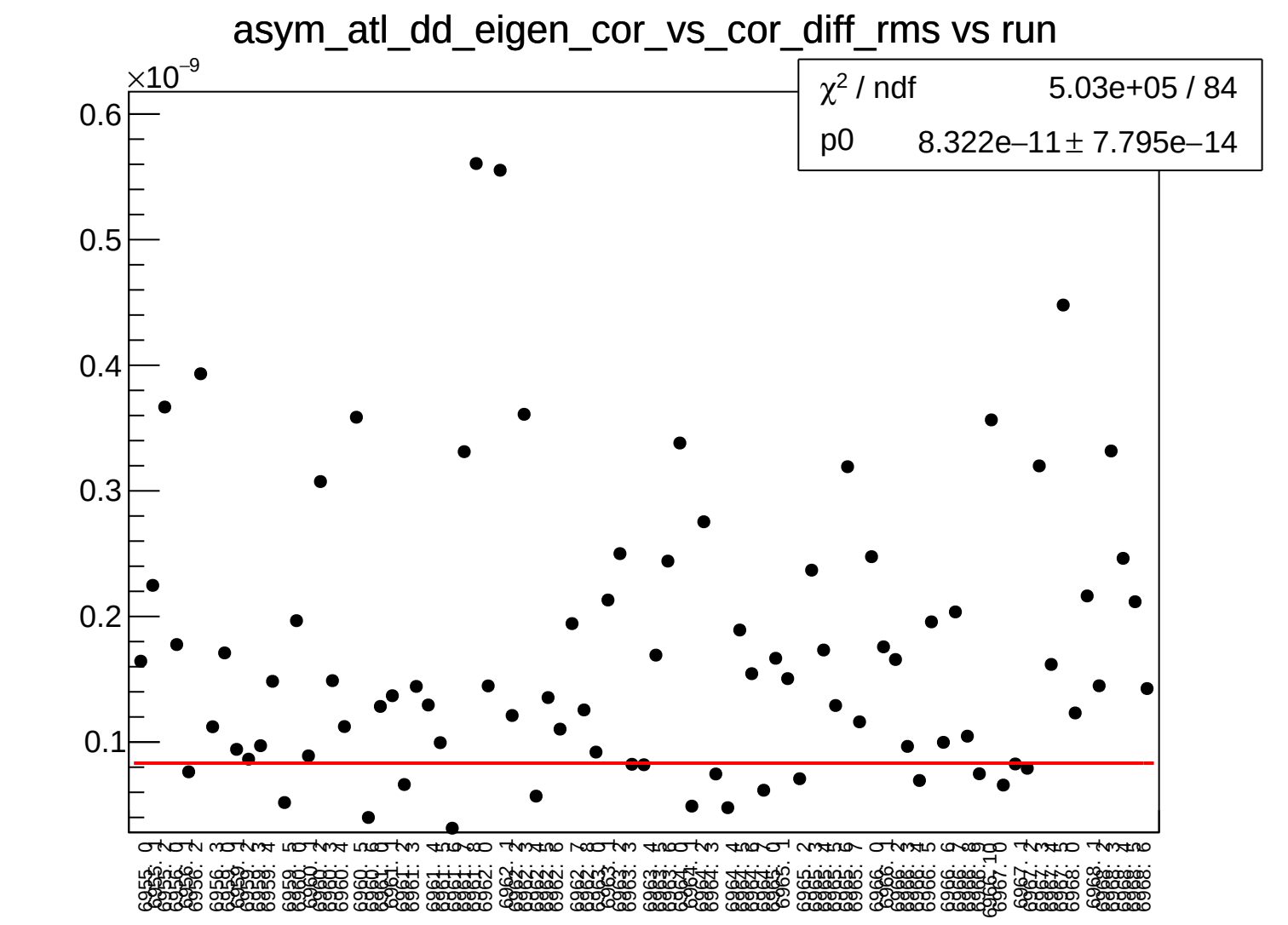



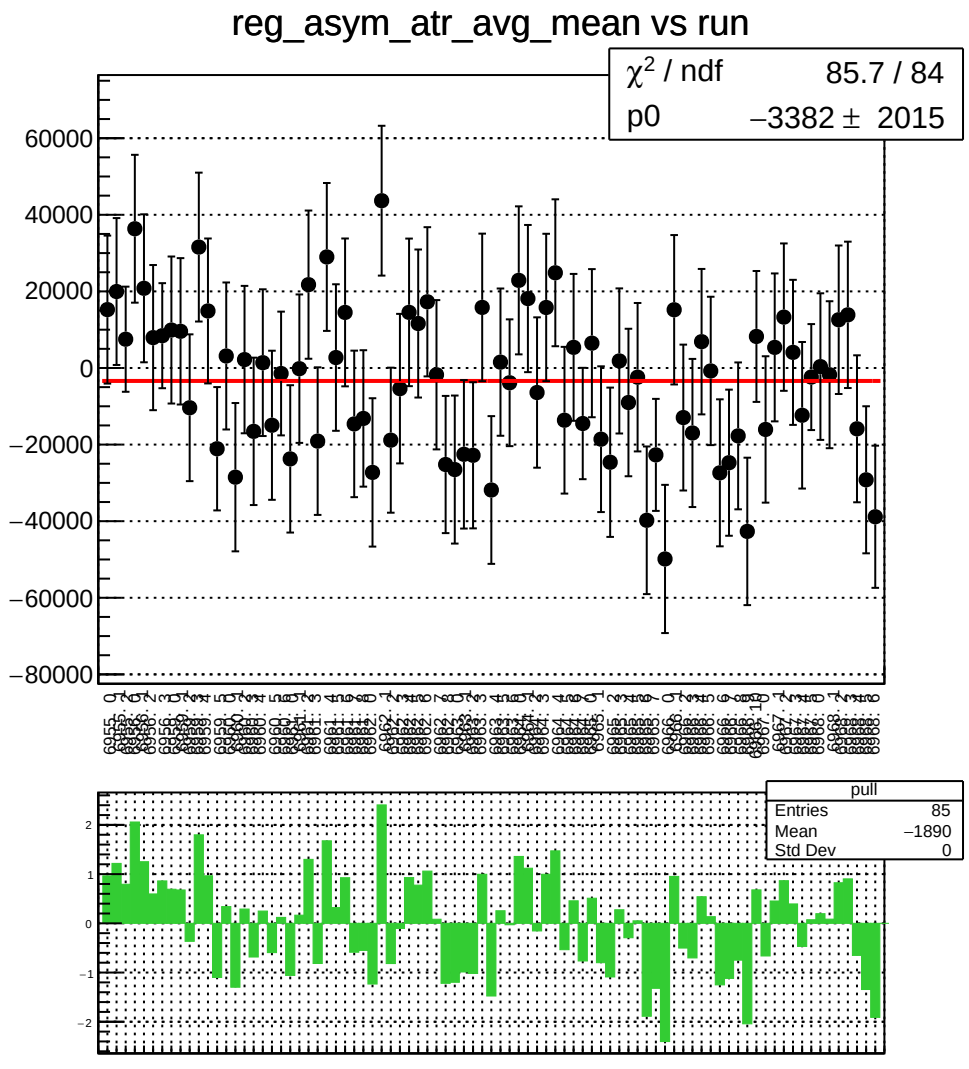



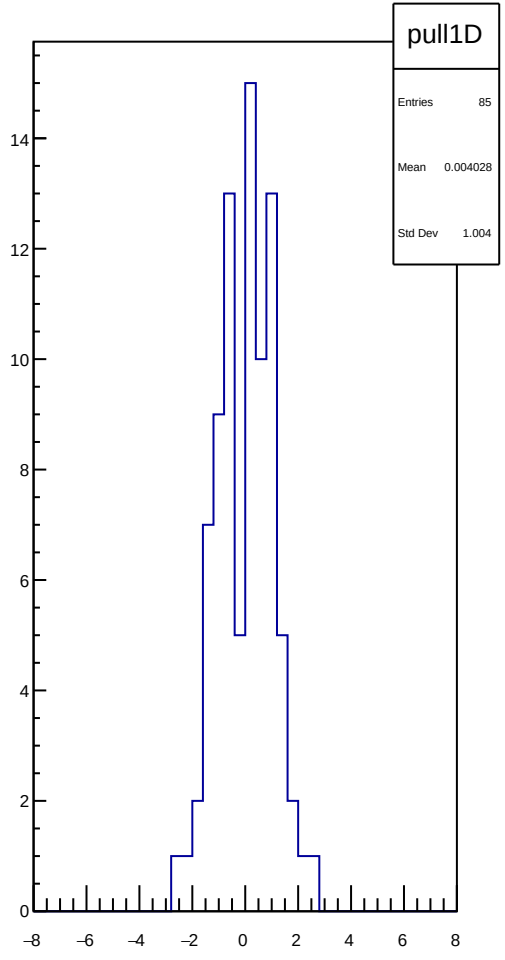

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.451e+04 / 84
p0 374.9 ± 0.2938
500
450
400
350
300

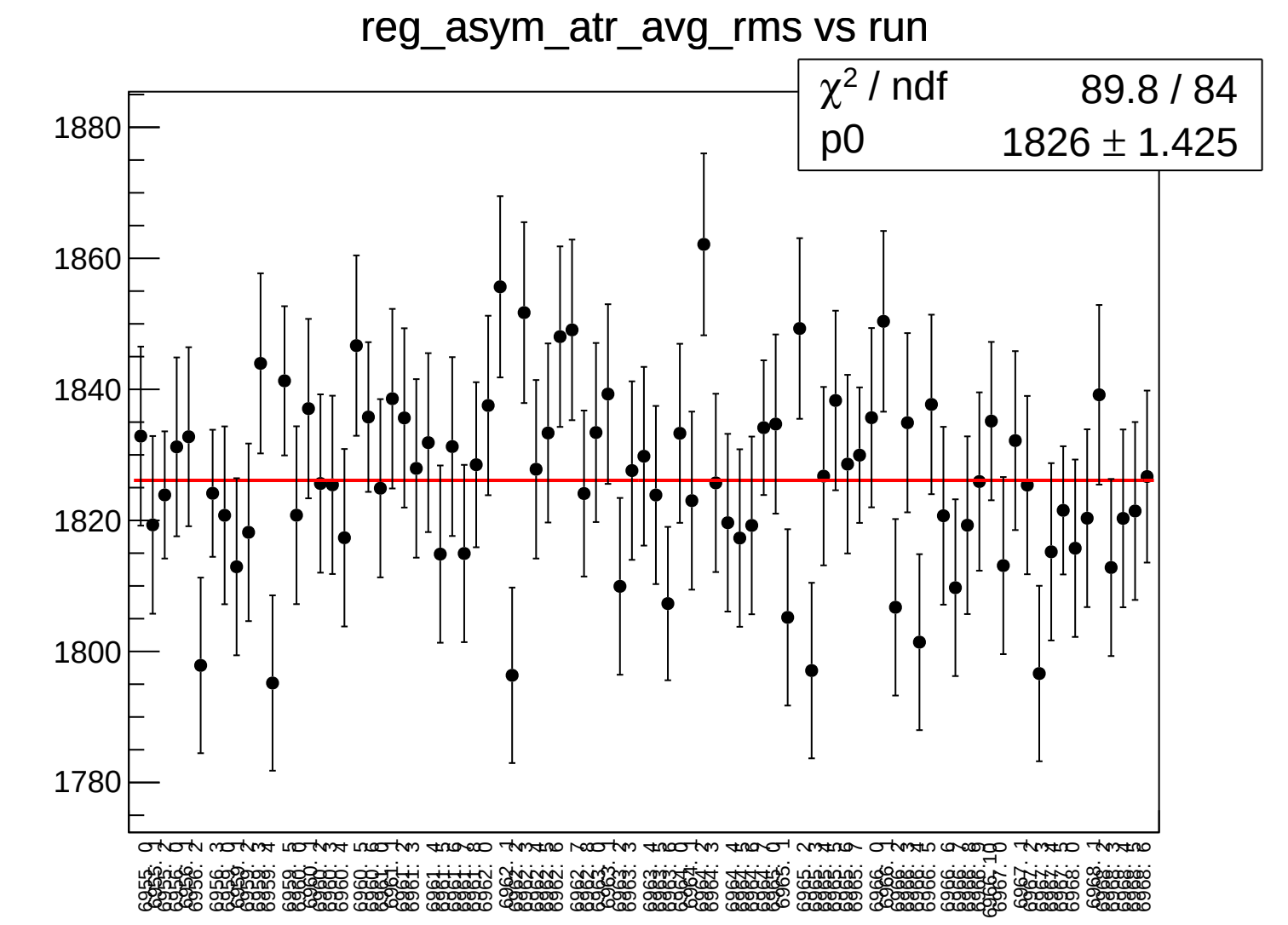

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.38 / 84
p0 3.322e−15 ± 1.102e−13
pull
Entries 85
Mean 4.52
Std Dev 0

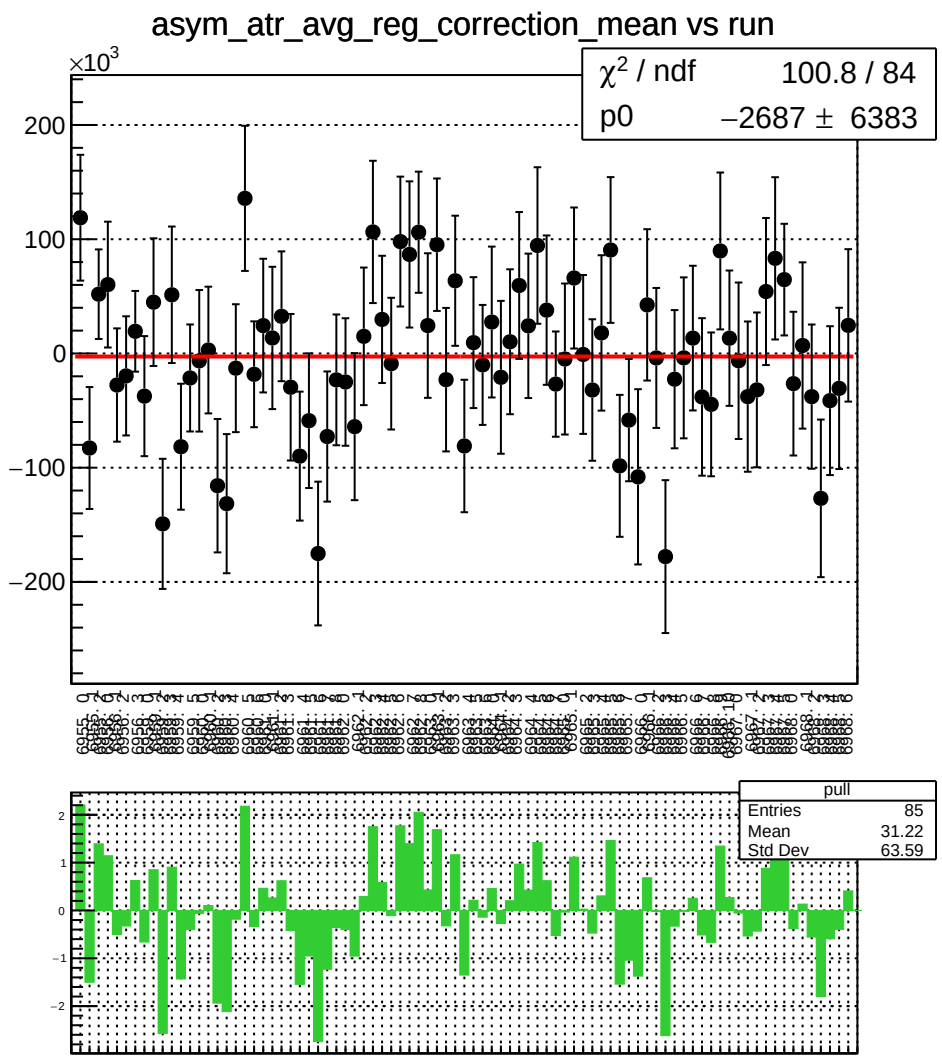

pull1D
Entries 85
Mean −0.04192
Std Dev 0.9836

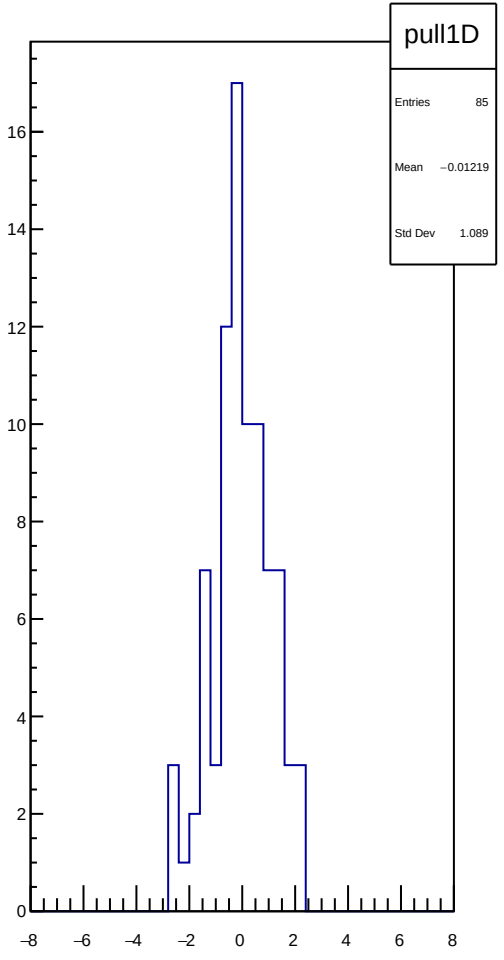

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.03e+05 / 84
p0 8.322e−11 ± 7.795e−14
0.6
0.5
0.4
0.3
0.2
0.1

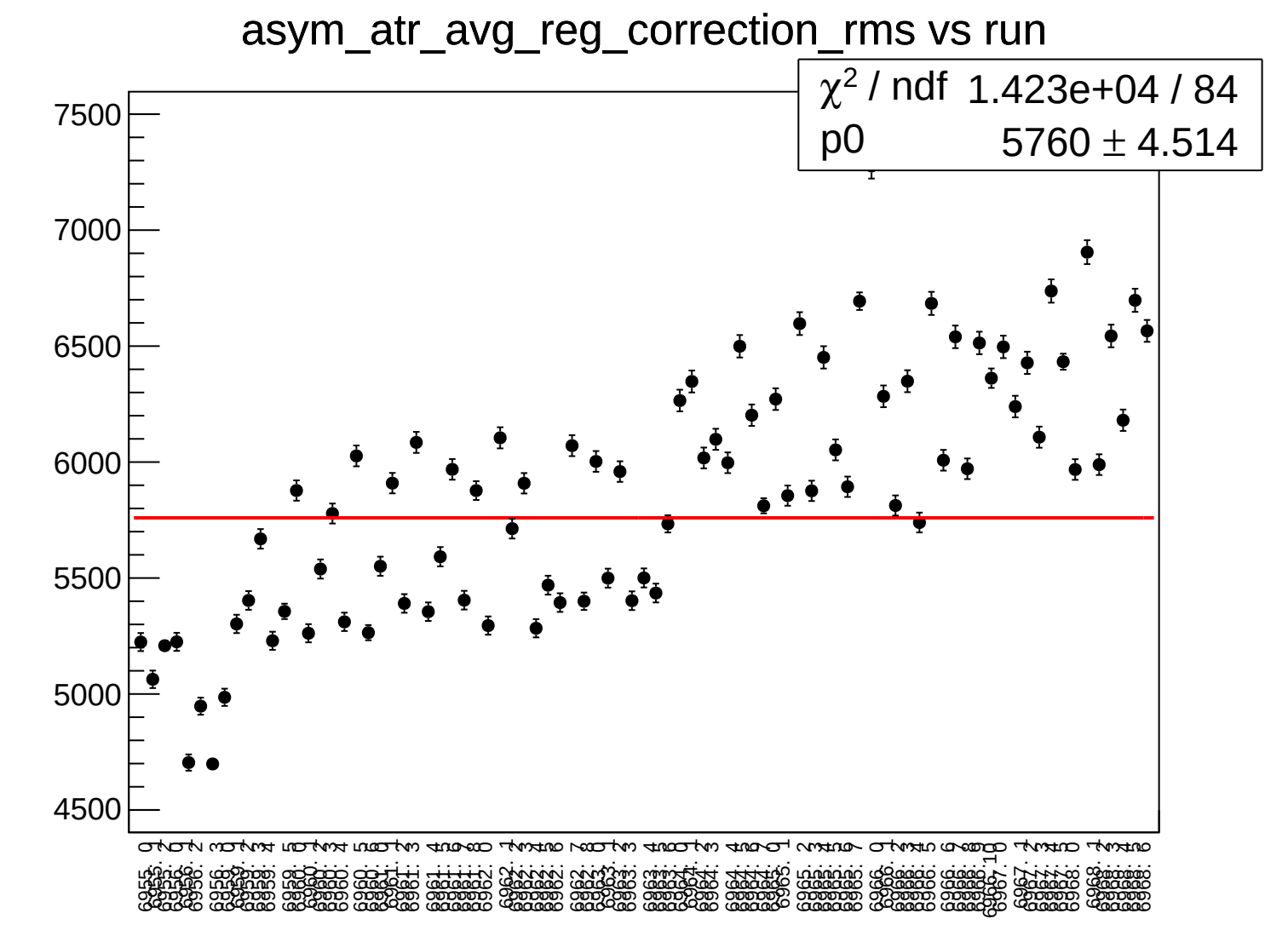

reg_asym_atr_avg_mean vs run
χ² / ndf 85.7 / 84
p0 −3382 ± 2015
pull
Entries 85
Mean −1890
Std Dev 0

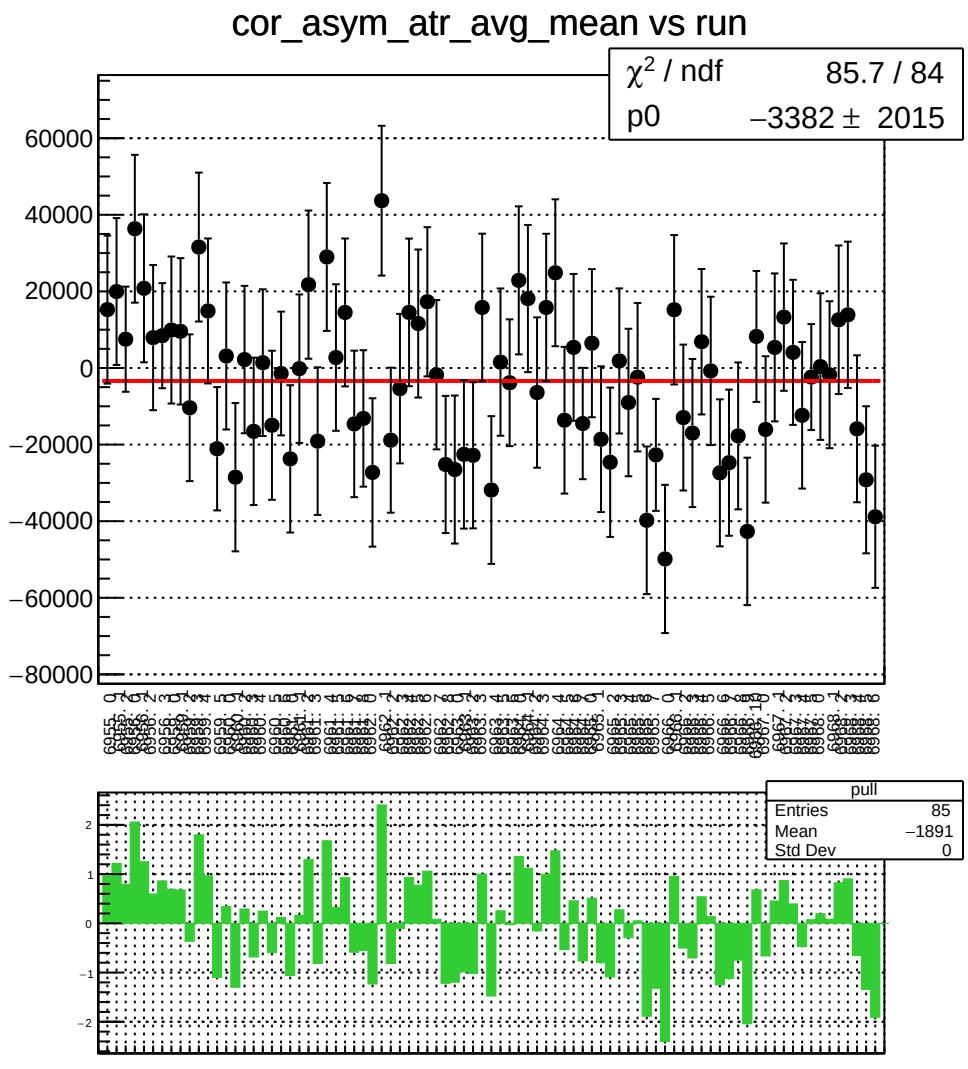

pull1D
Entries 85
Mean 0.004028
Std Dev 1.004

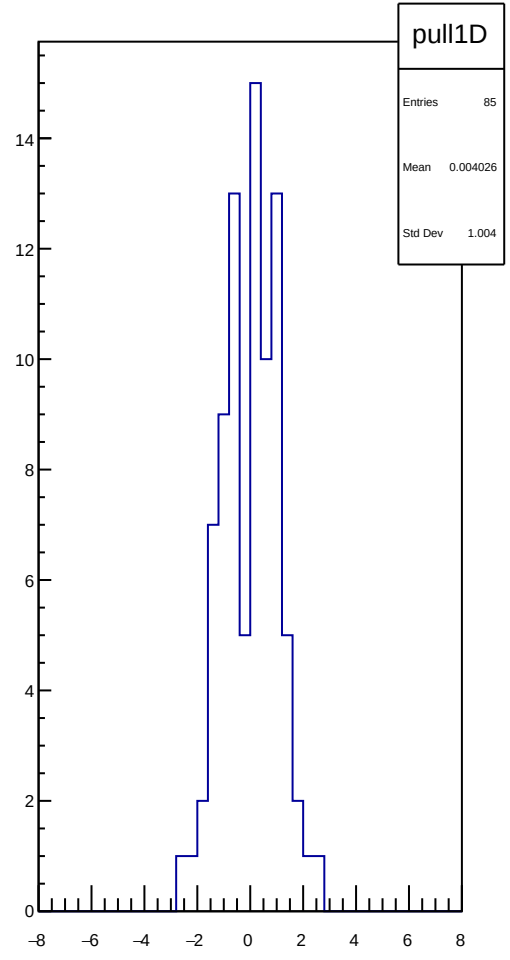

reg_asym_atr_avg_rms vs run
χ² / ndf 89.8 / 84
p0 1826 ± 1.425
1880
1860
1840
1820
1800
1780

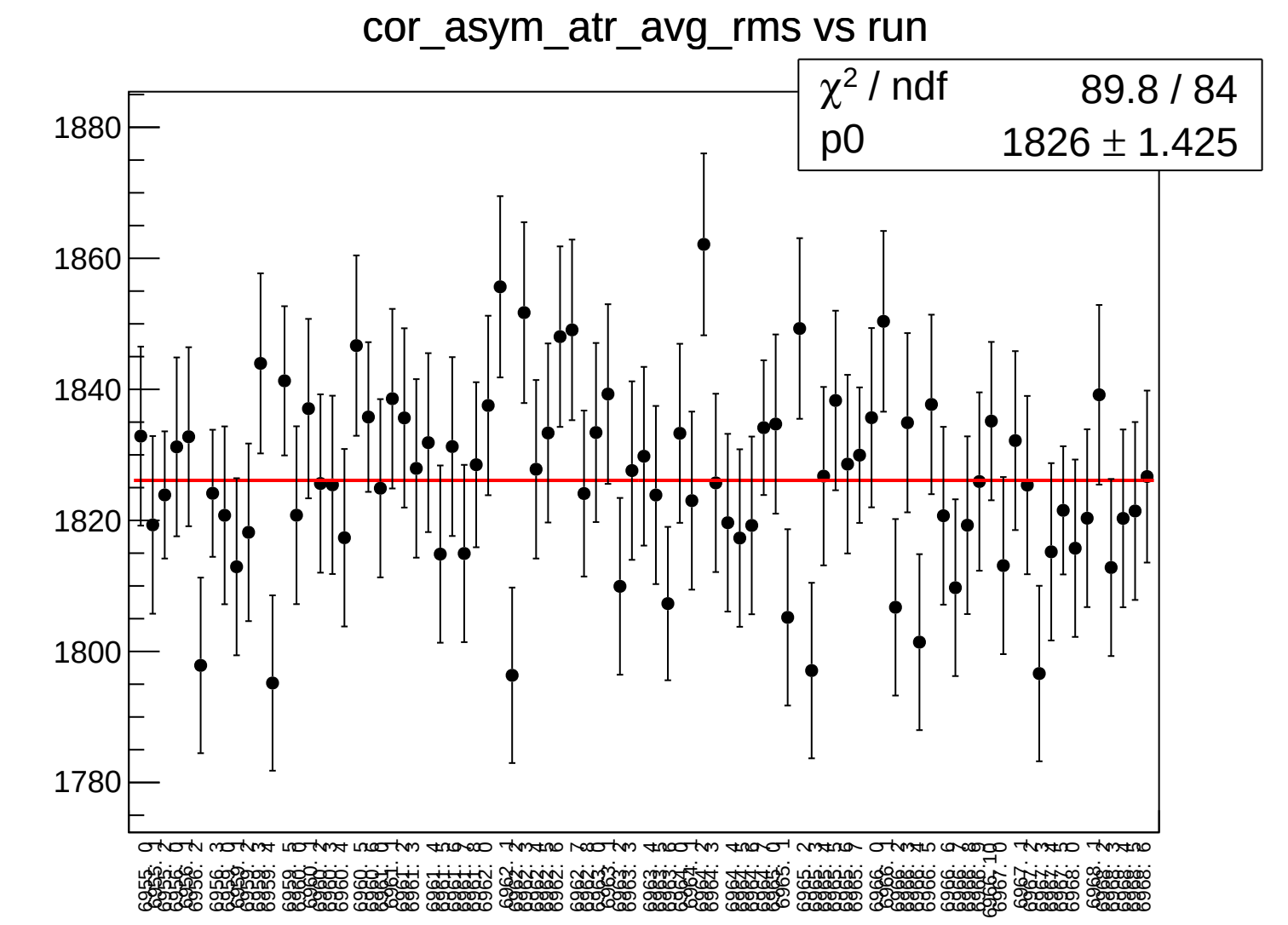

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.8 / 84
p0 −2687 ± 6383
200
100
0
−100
−200
pull
Entries 85
Mean 31.22
Std Dev 63.59
2
1
0
−1
−2

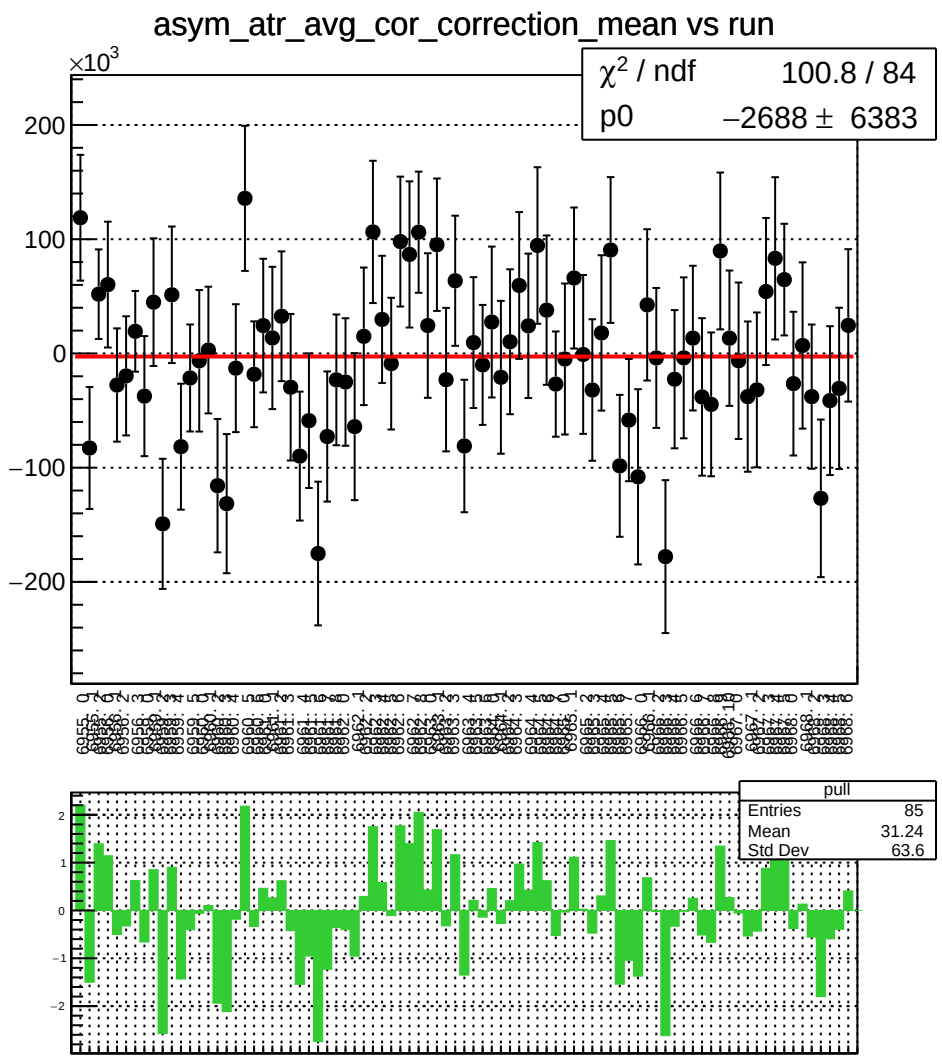

pull1D
Entries 85
Mean −0.01219
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

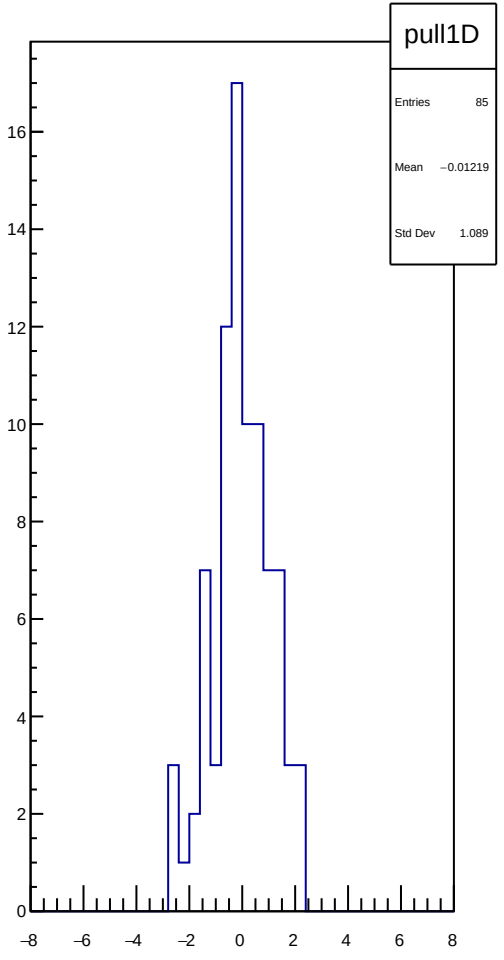

asym_atr_avg_reg_correction_rms vs run
$\chi^2$ / ndf 1.423e+04 / 84
p0 5760 ± 4.514
7500
7000
6500
6000
5500
5000
4500

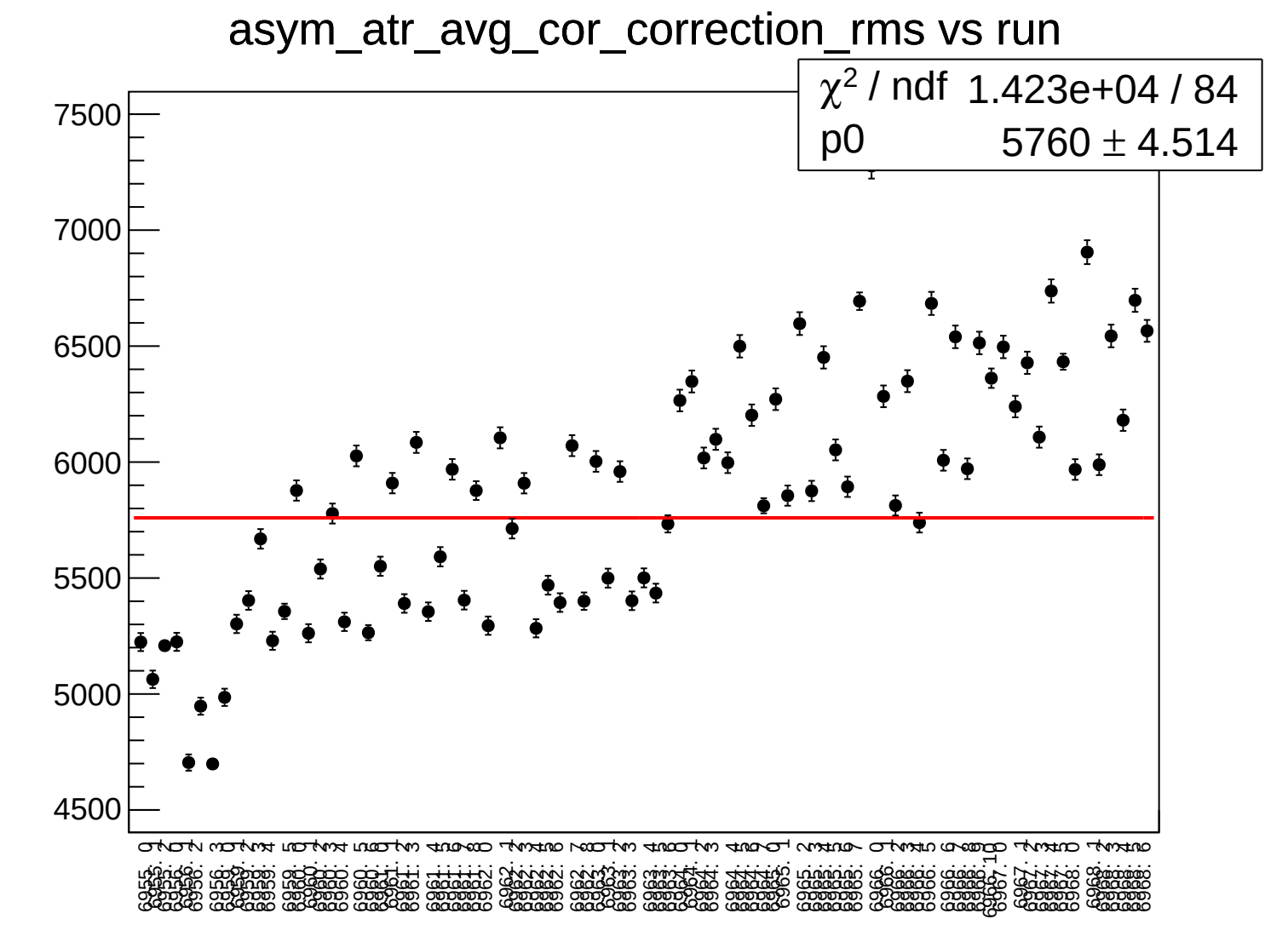

cor_asym_atr_avg_mean vs run
χ² / ndf 85.7 / 84
p0 −3382 ± 2015
pull
Entries 85
Mean −1891
Std Dev 0

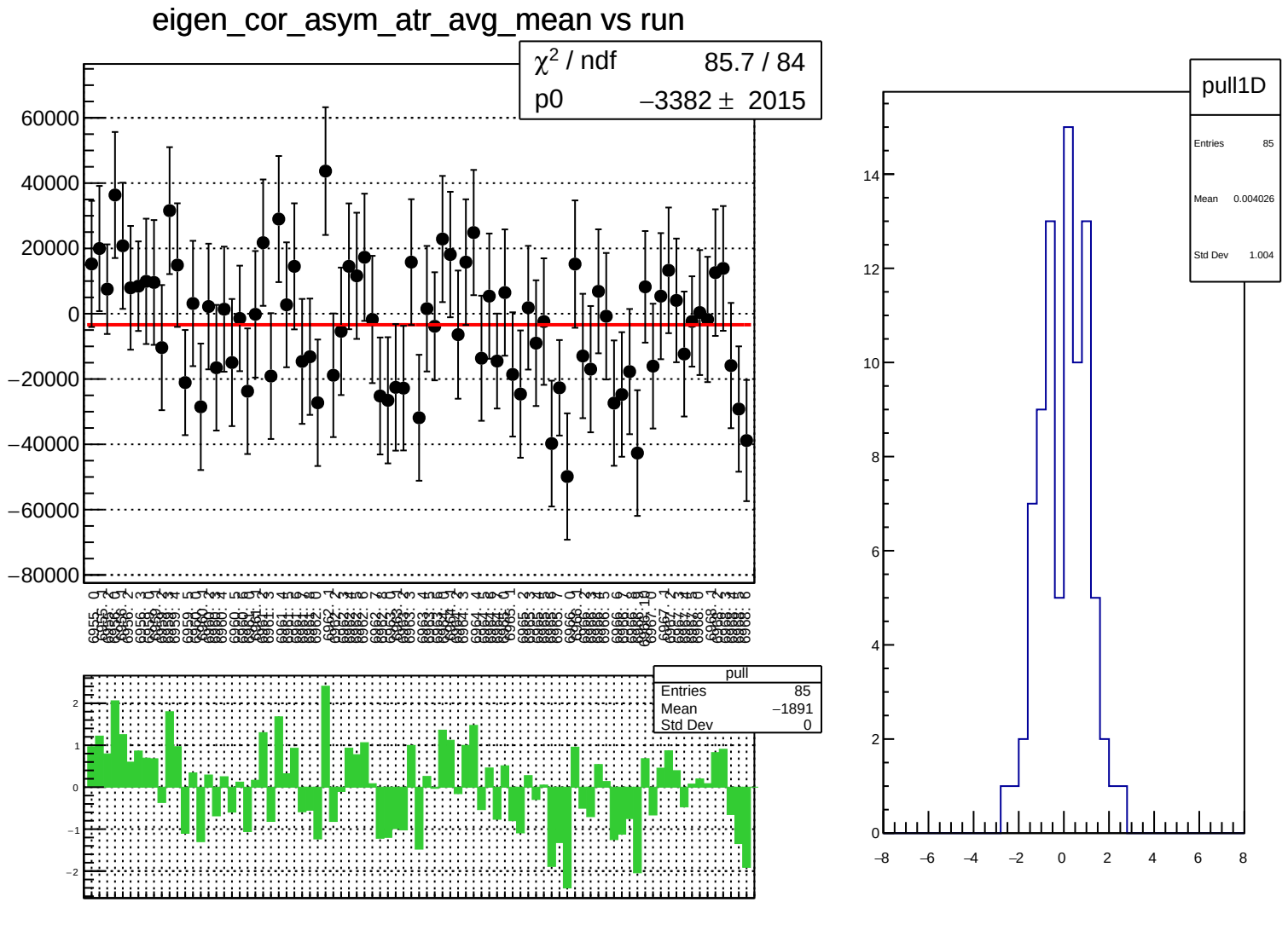

pull1D
Entries 85
Mean 0.004026
Std Dev 1.004

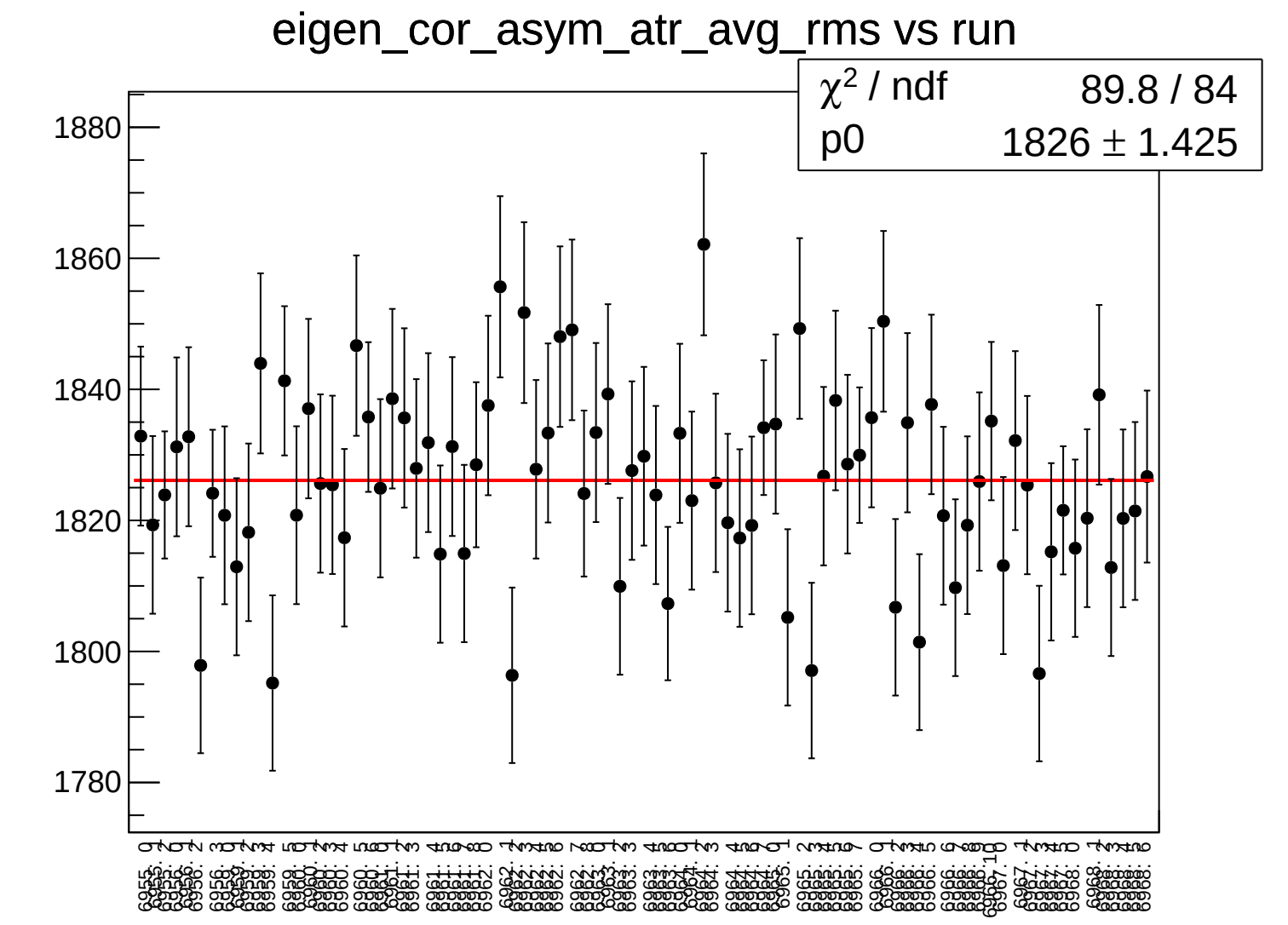

cor_asym_atr_avg_rms vs run
$\chi^2$ / ndf 89.8 / 84
p0 1826 ± 1.425
1880
1860
1840
1820
1800
1780

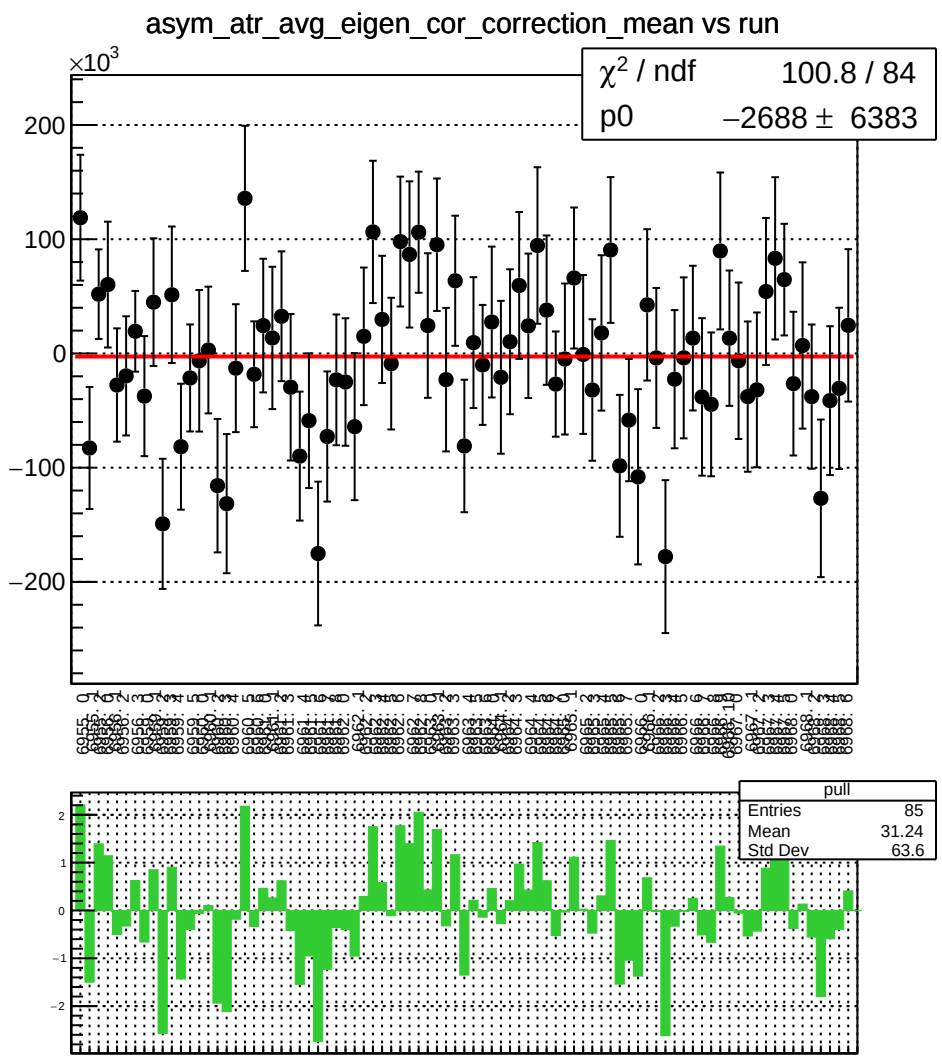

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.8 / 84
p0 −2688 ± 6383
200
100
0
−100
−200
pull
Entries 85
Mean 31.24
Std Dev 63.6
2
1
0
−1
−2

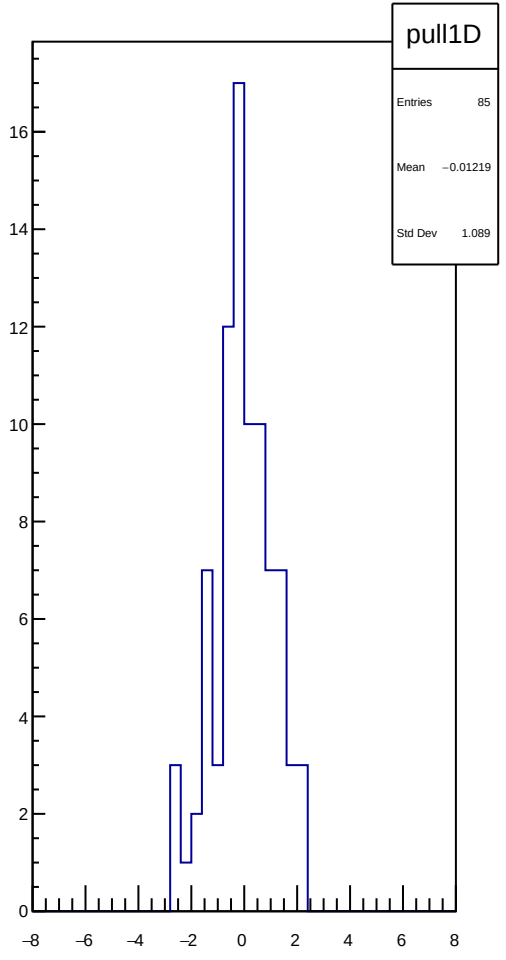

pull1D
Entries 85
Mean −0.01219
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

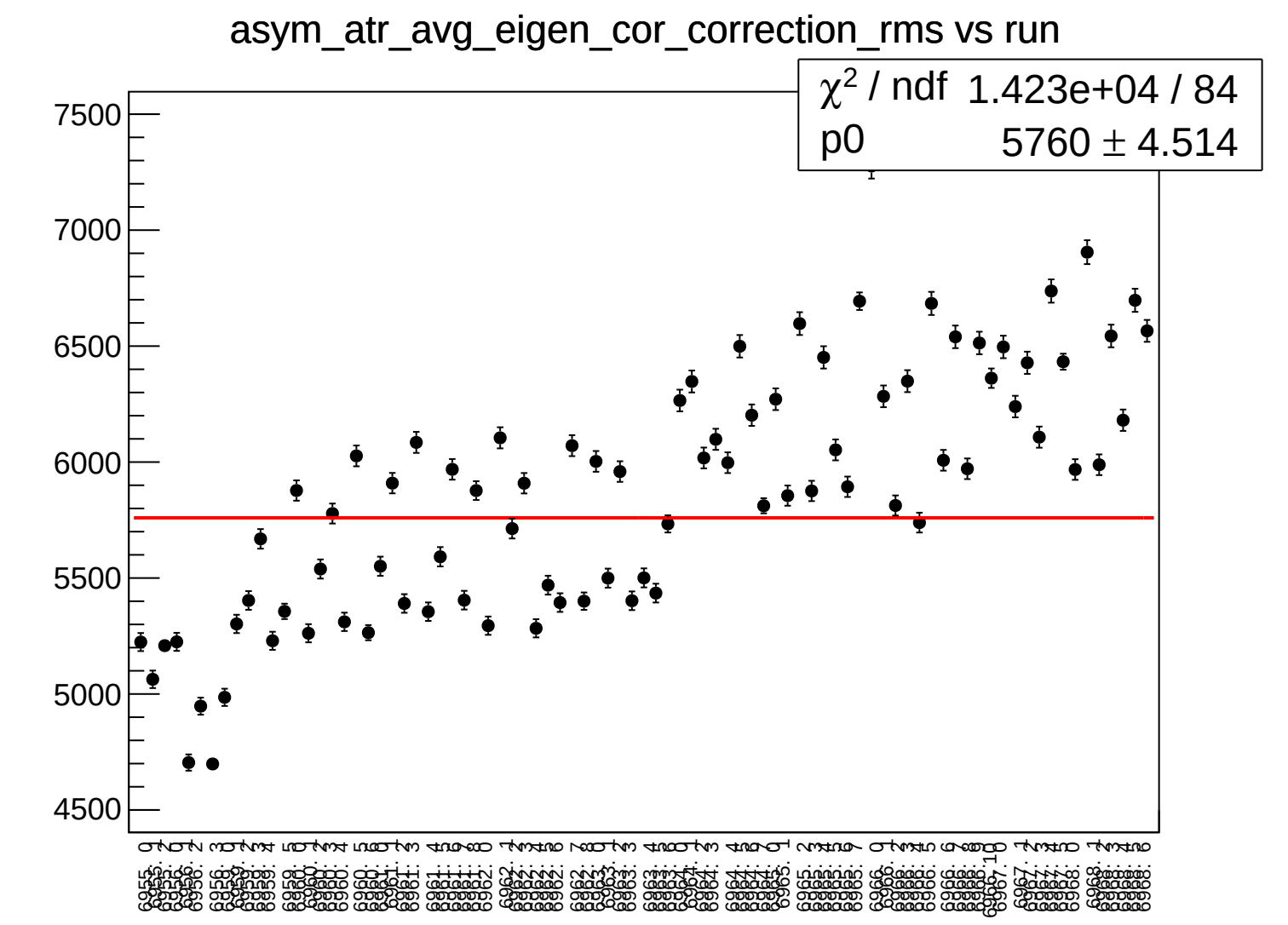

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1.423e+04 / 84
p0 5760 ± 4.514
7500
7000
6500
6000
5500
5000
4500

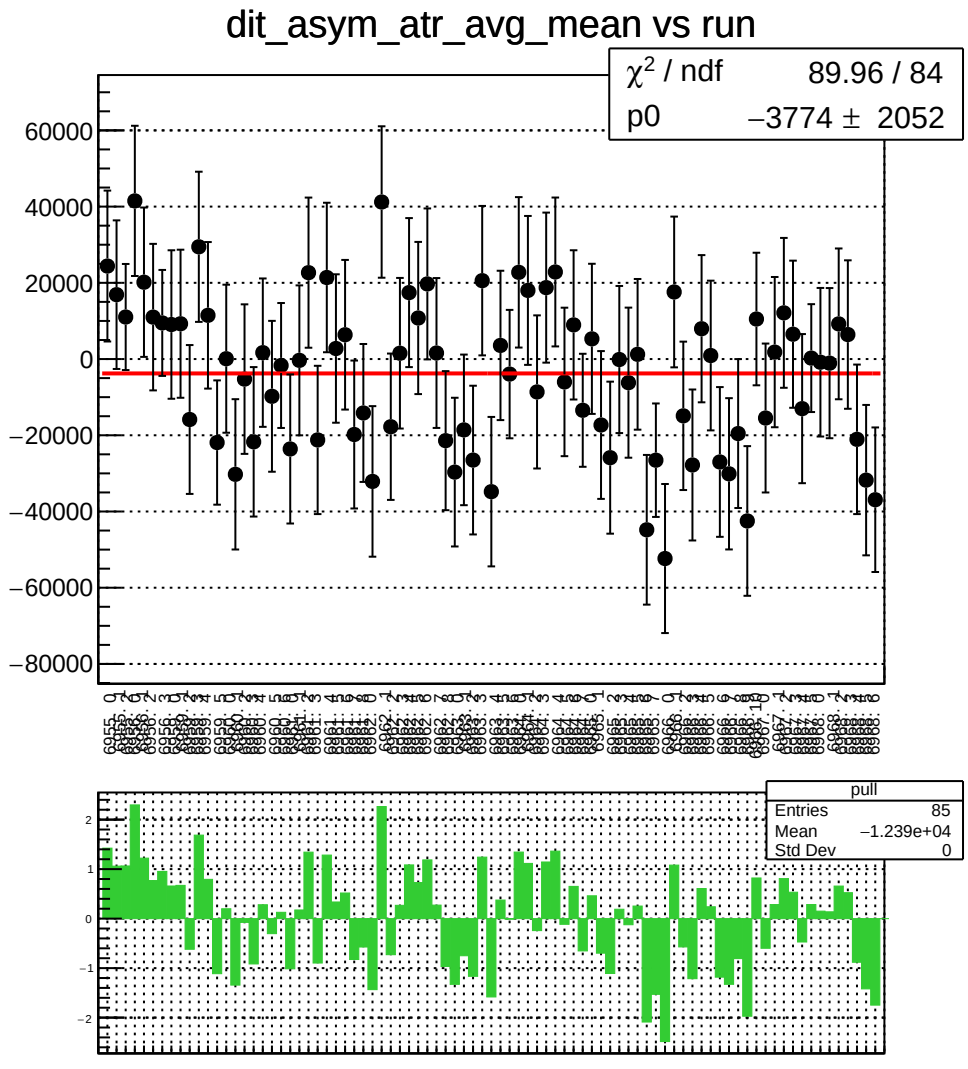

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 85.7 / 84
p0 −3382 ± 2015
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −1891
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.004026
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

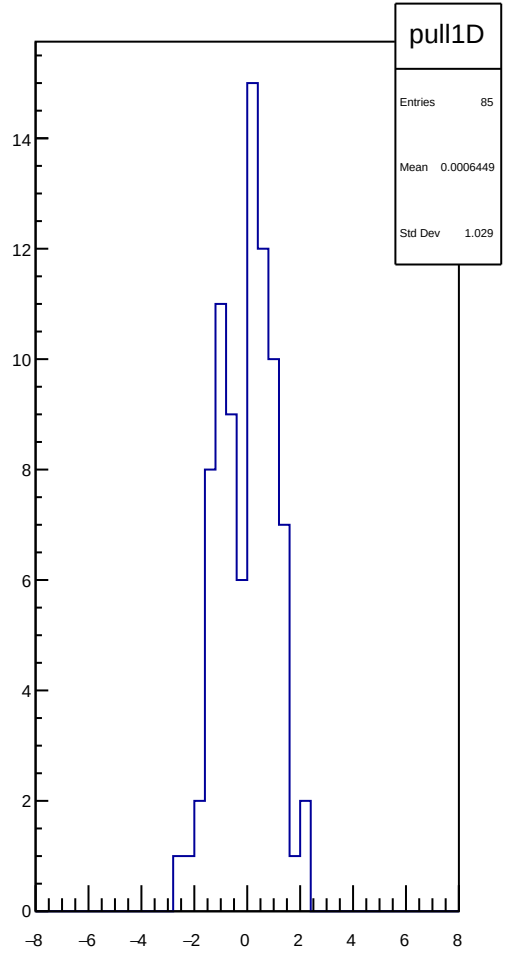

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 89.8 / 84
p0 1826 ± 1.425
1880
1860
1840
1820
1800
1780

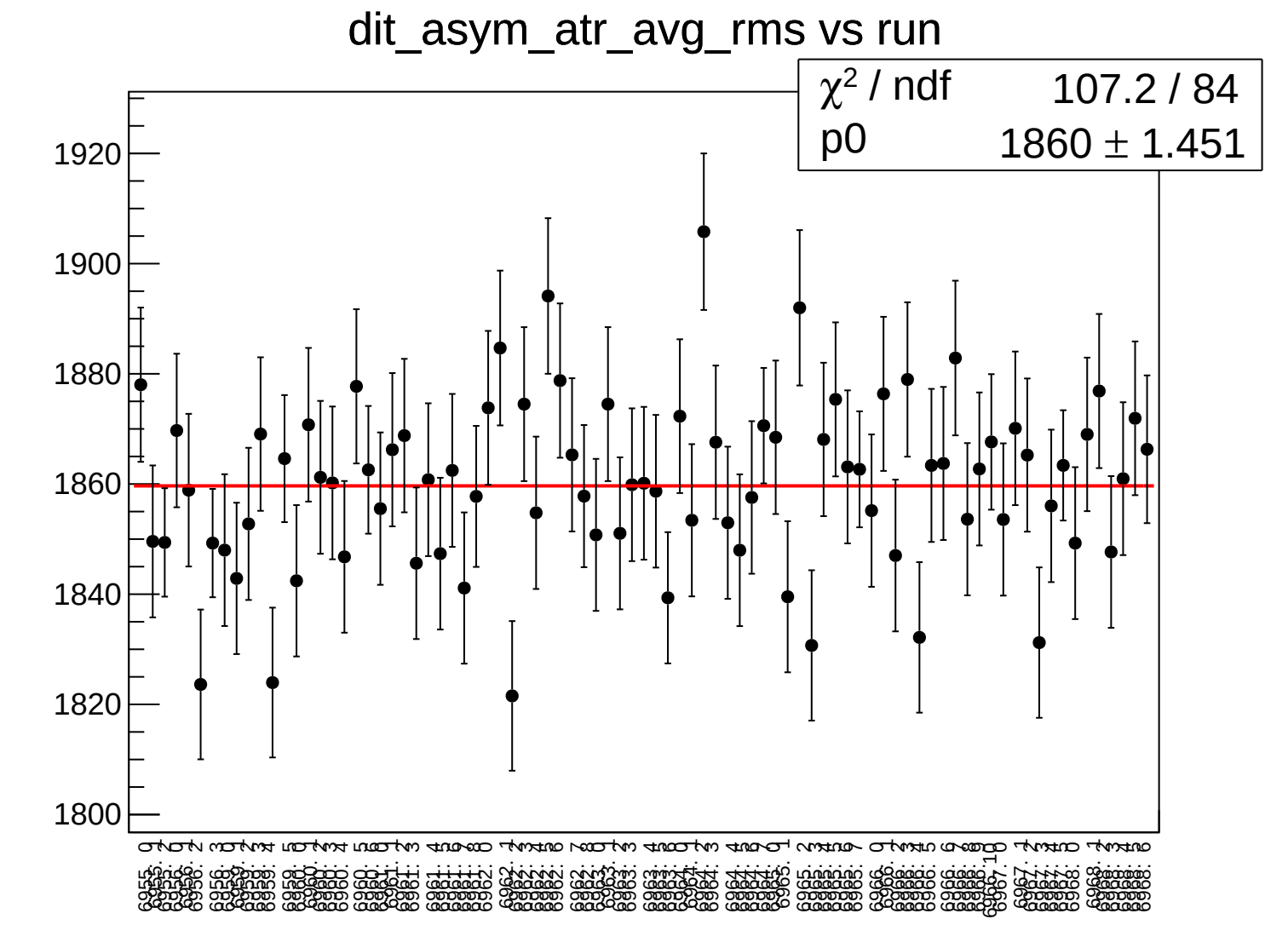

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.8 / 84
p0 −2688 ± 6383
×10³
200
100
0
−100
−200
pull
Entries 85
Mean 31.24
Std Dev 63.6
2
1
0
−1
−2

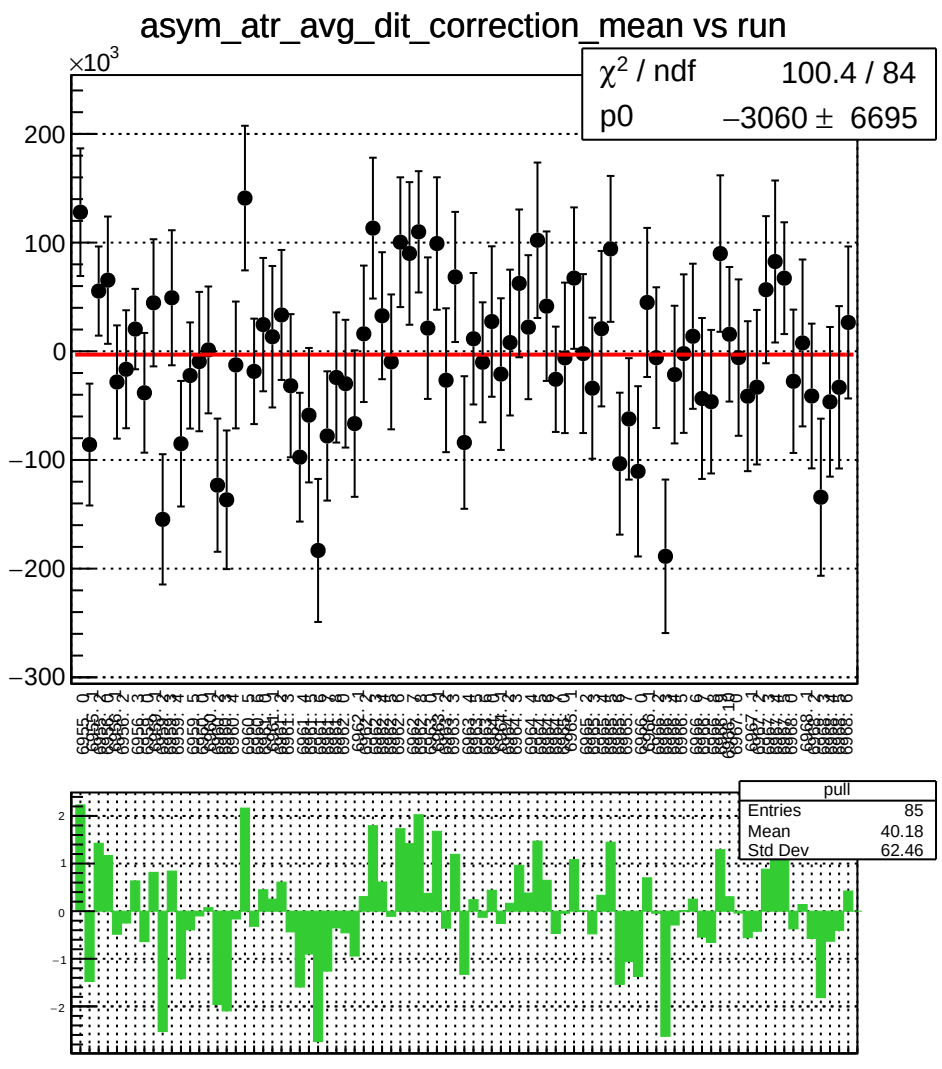

pull1D
Entries 85
Mean −0.01219
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

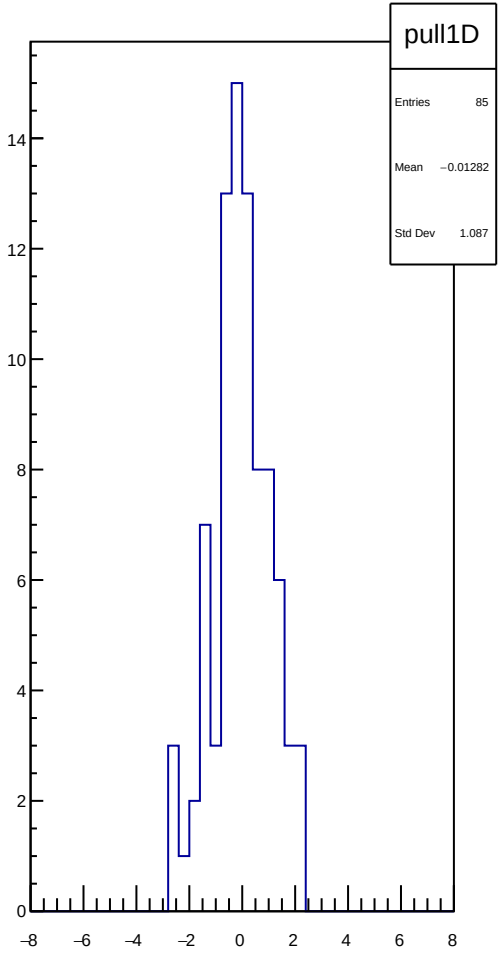

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.423e+04 / 84
p0 5760 ± 4.514
7500
7000
6500
6000
5500
5000
4500

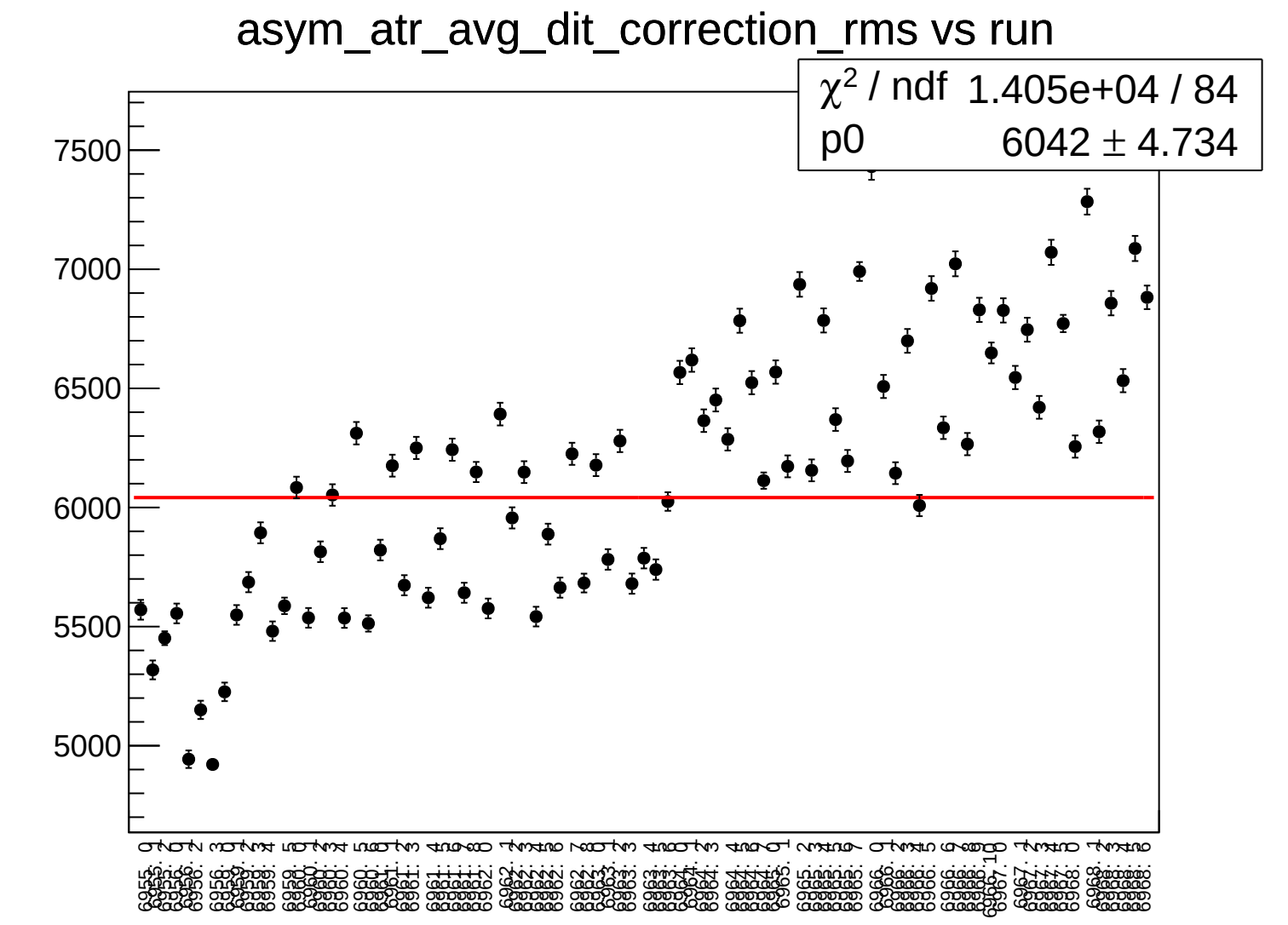

dit_asym_atr_avg_mean vs run
χ² / ndf 89.96 / 84
p0 −3774 ± 2052
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −1.239e+04
Std Dev 0
2
1
0
−1
−2

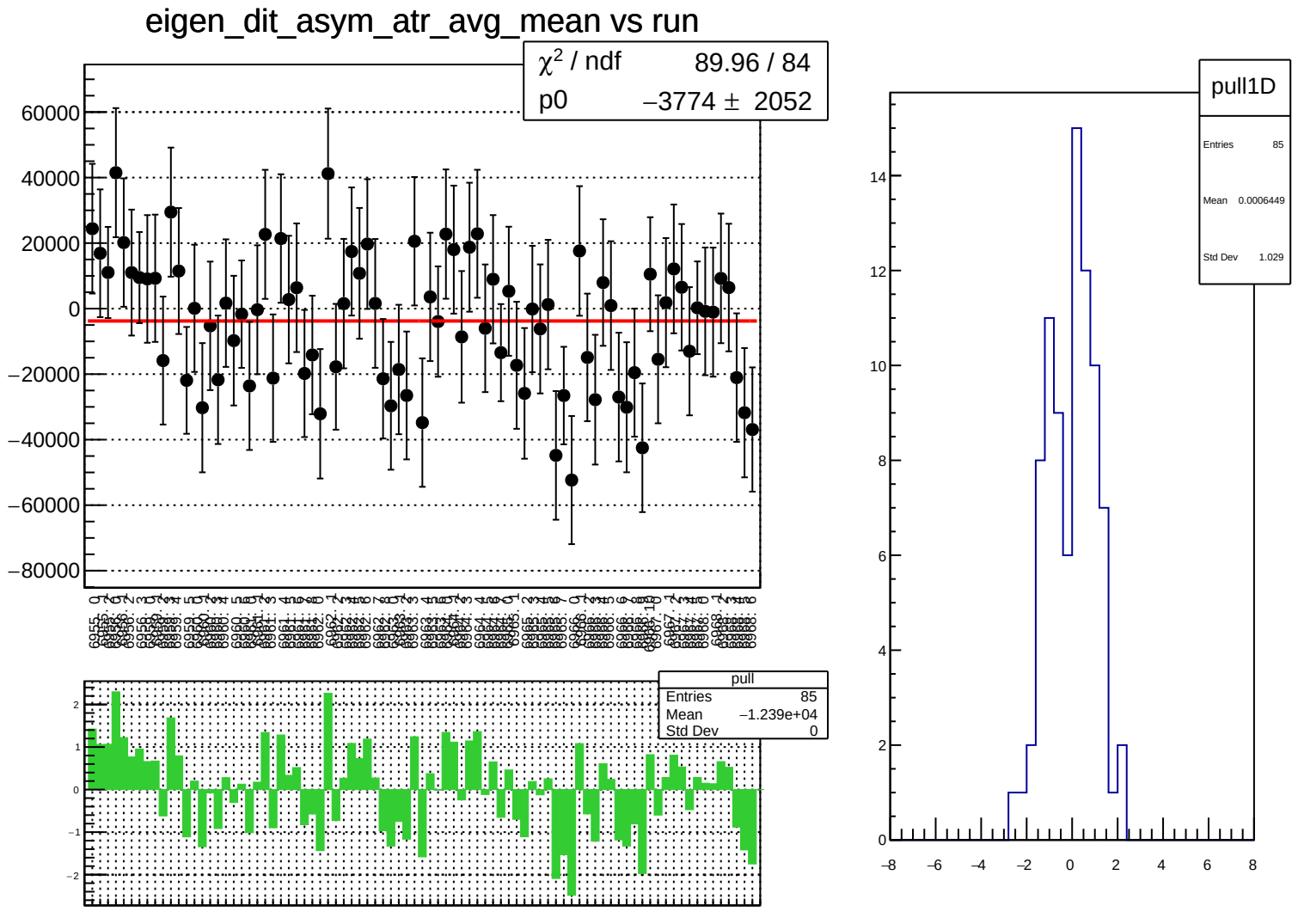

pull1D
Entries 85
Mean 0.0006449
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

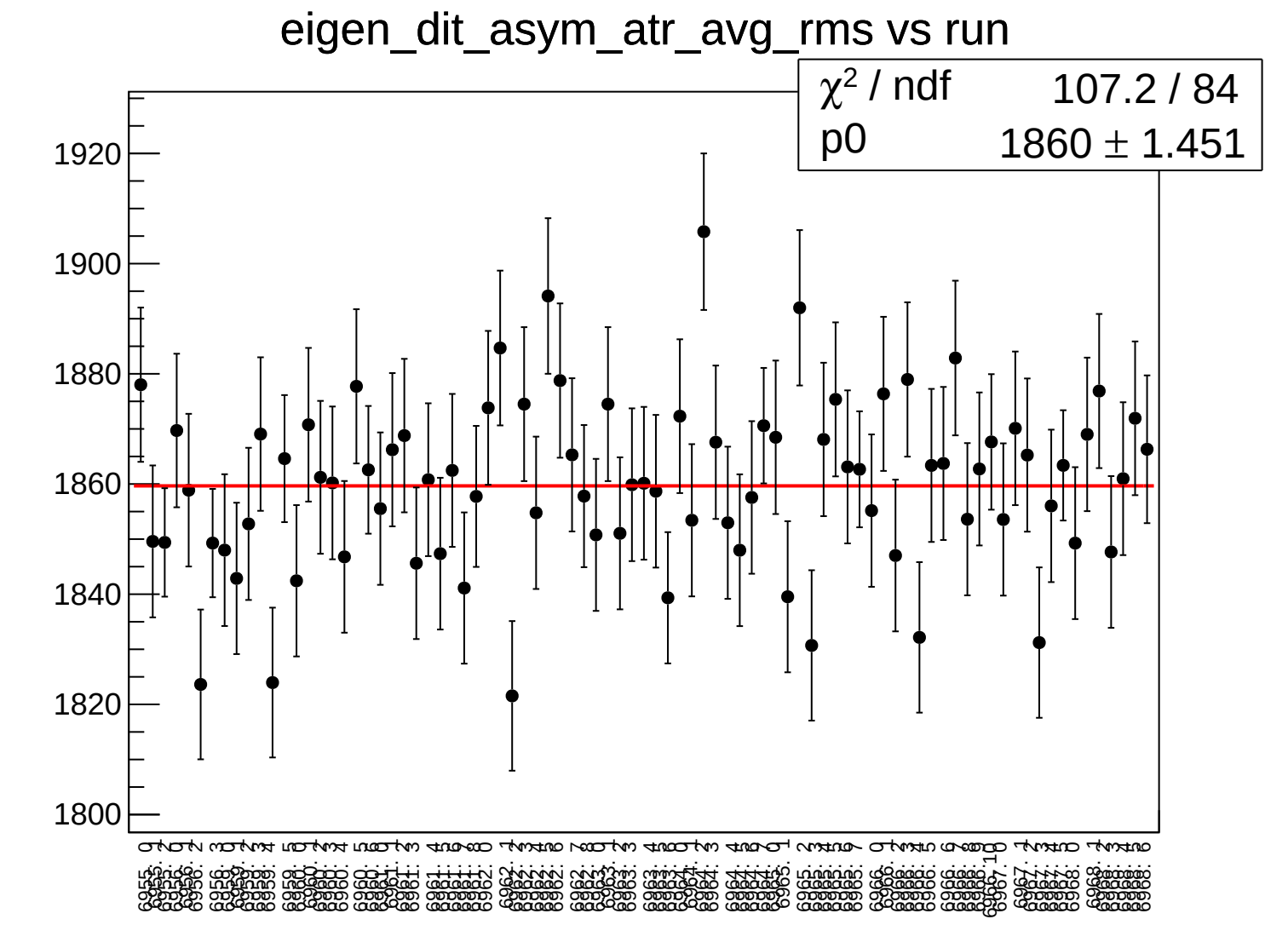

dit_asym_atr_avg_rms vs run
χ² / ndf 107.2 / 84
p0 1860 ± 1.451
1920
1900
1880
1860
1840
1820
1800

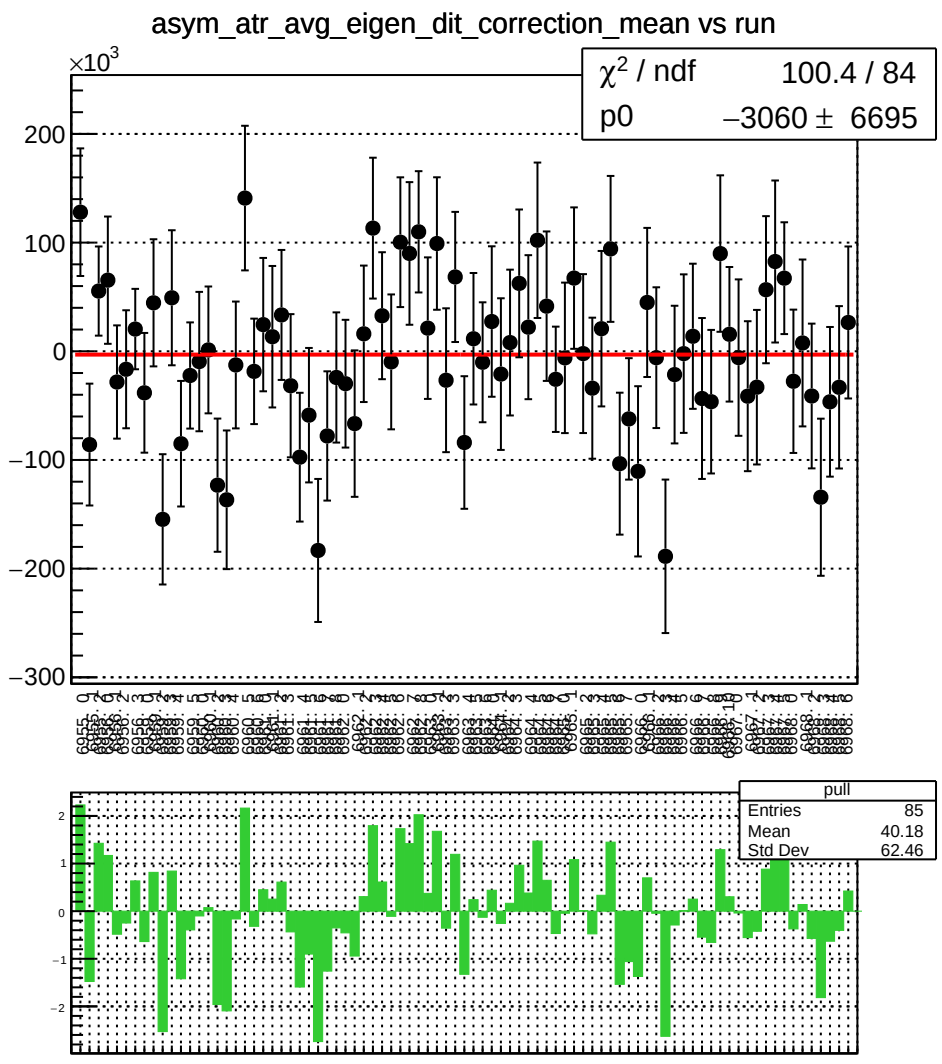

asym_atr_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.4 / 84
p0 −3060 ± 6695
200
100
0
−100
−200
−300
pull
Entries 85
Mean 40.18
Std Dev 62.46
2
1
0
−1
−2

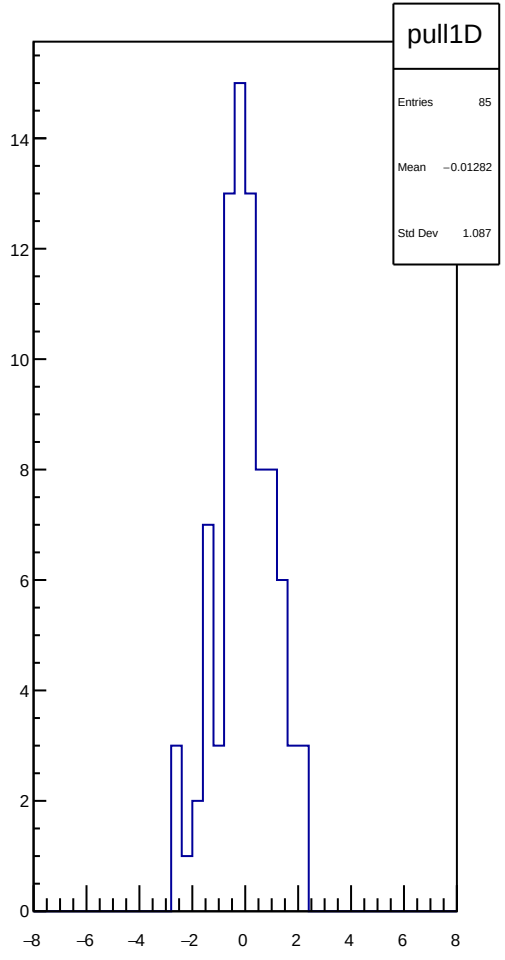

pull1D
Entries 85
Mean −0.01282
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

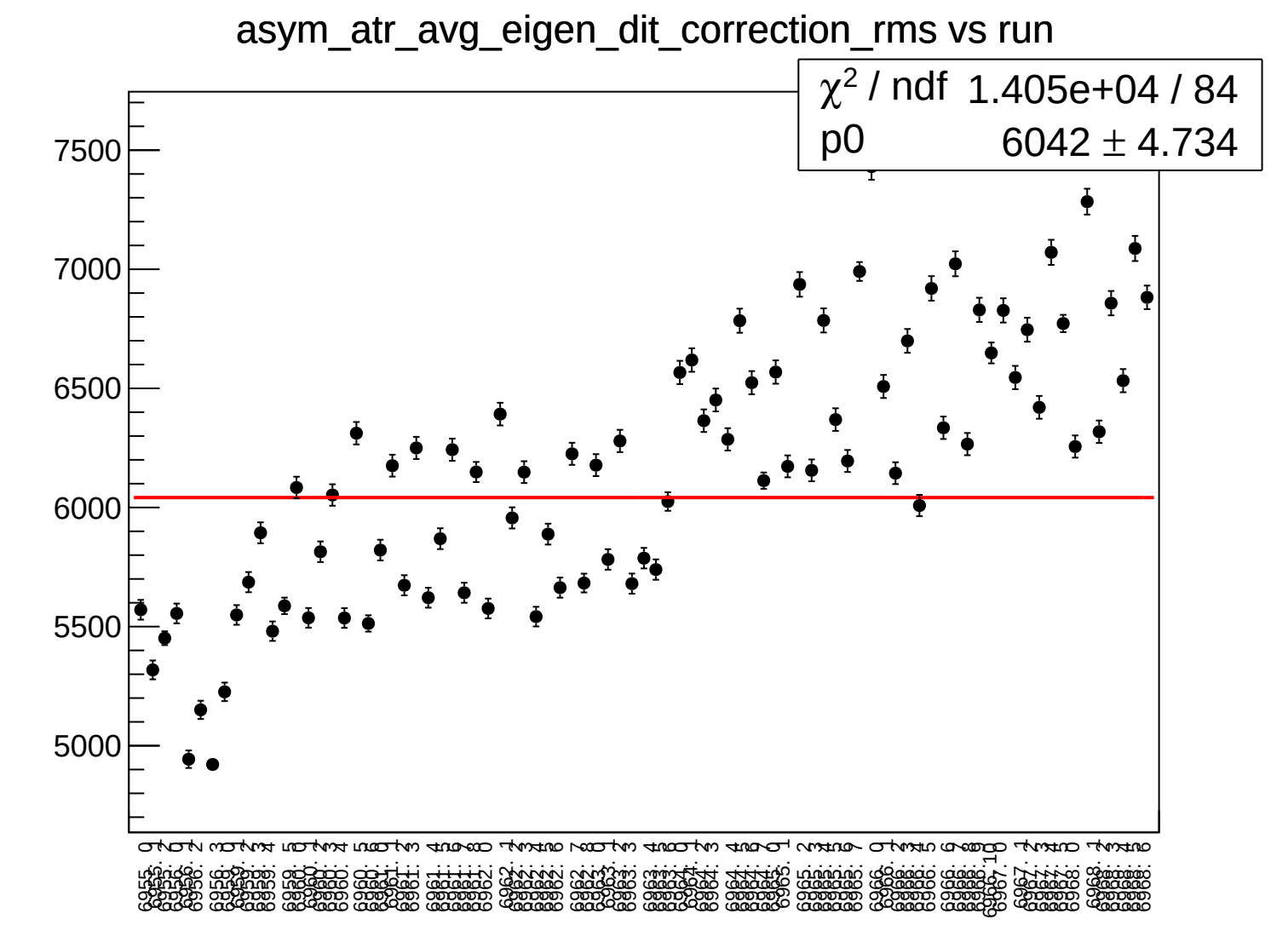

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 1.405e+04 / 84
p0 6042 ± 4.734
7500
7000
6500
6000
5500
5000

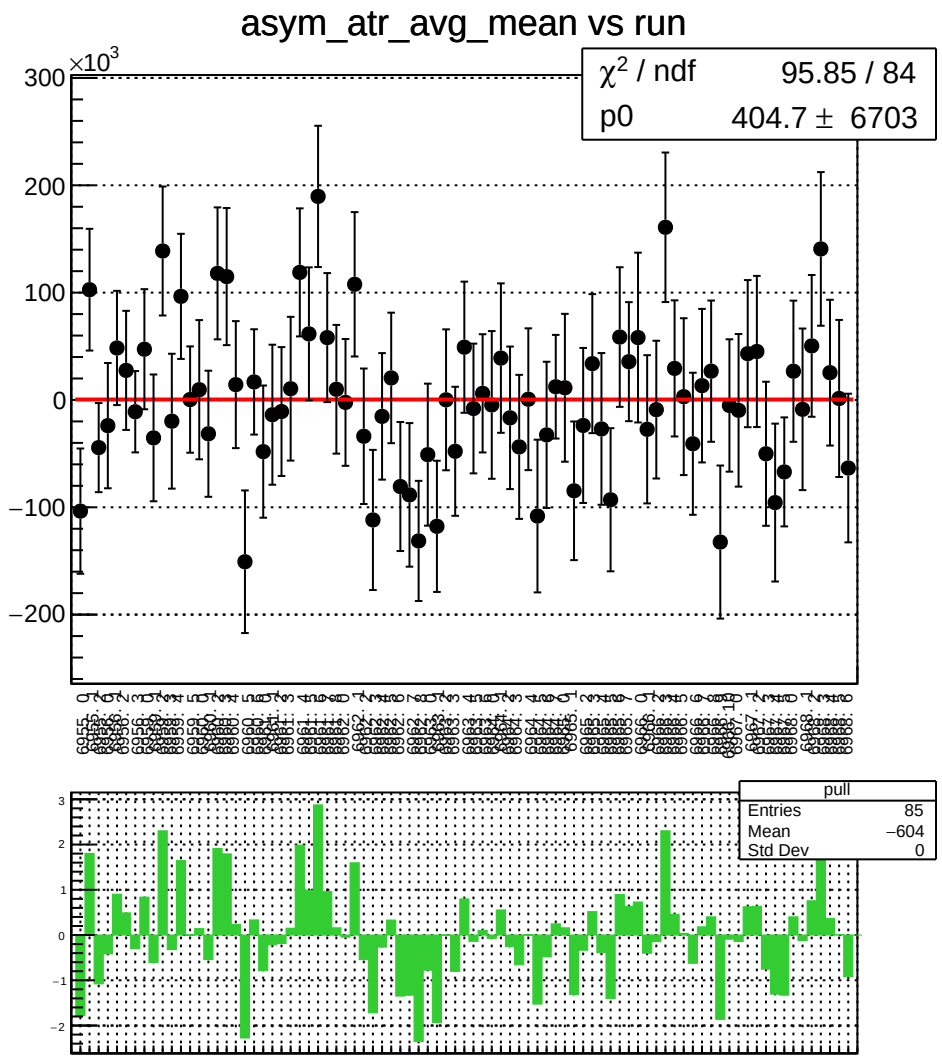

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 89.96 / 84
p0 −3774 ± 2052
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −1.239e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.0006449
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

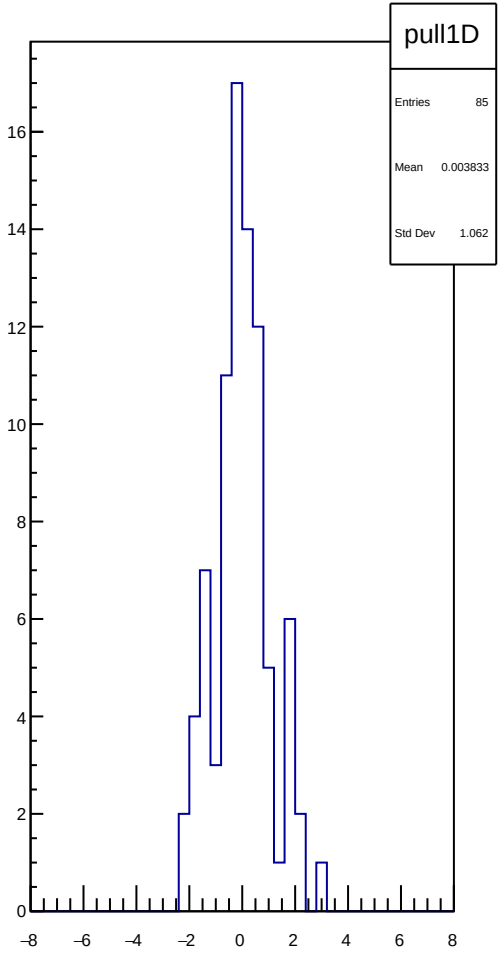

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 107.2 / 84
p0 1860 ± 1.451
1920
1900
1880
1860
1840
1820
1800

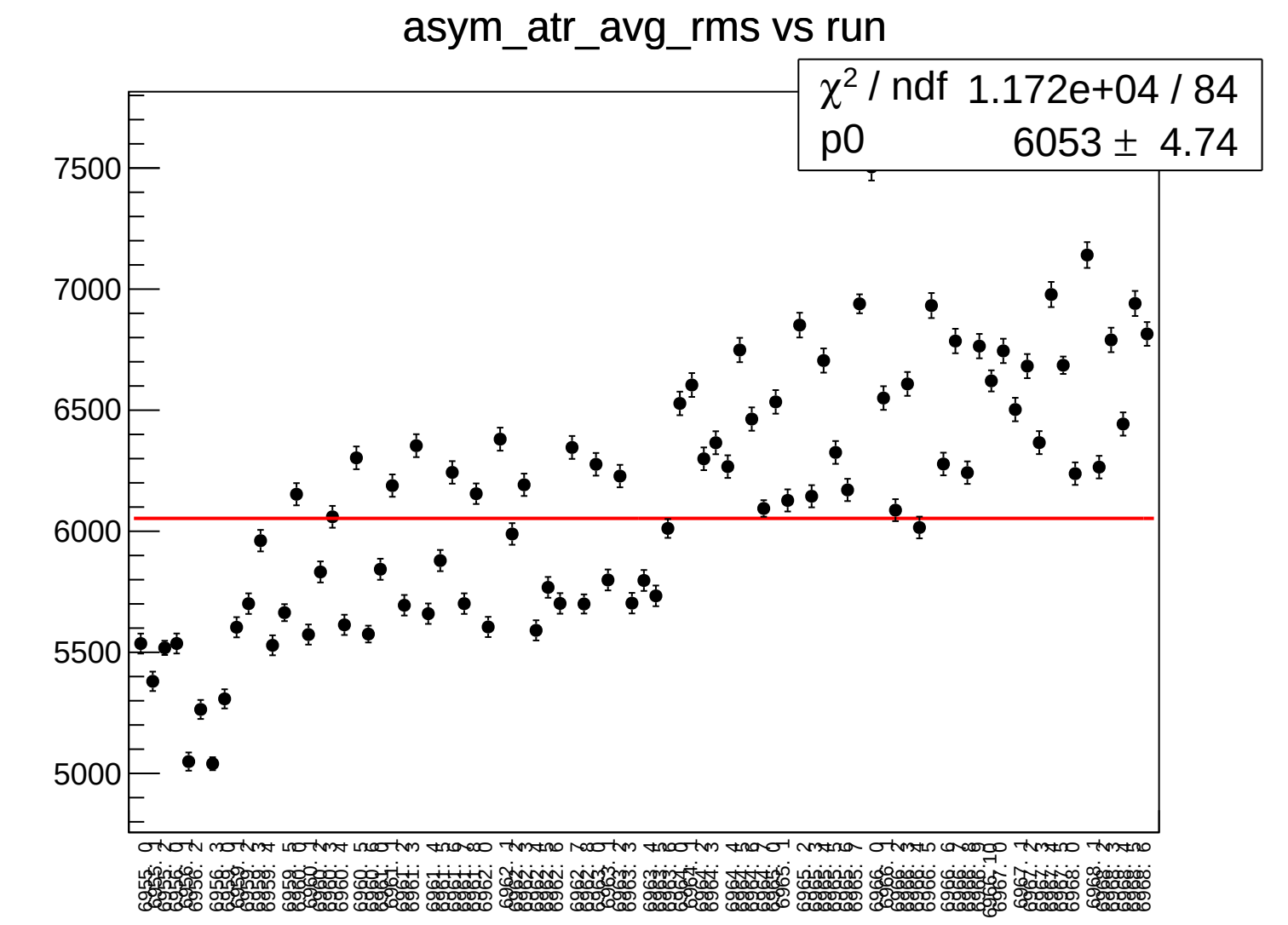

asym_atr_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.4 / 84
p0 −3060 ± 6695
×10³
pull
Entries 85
Mean 40.18
Std Dev 62.46

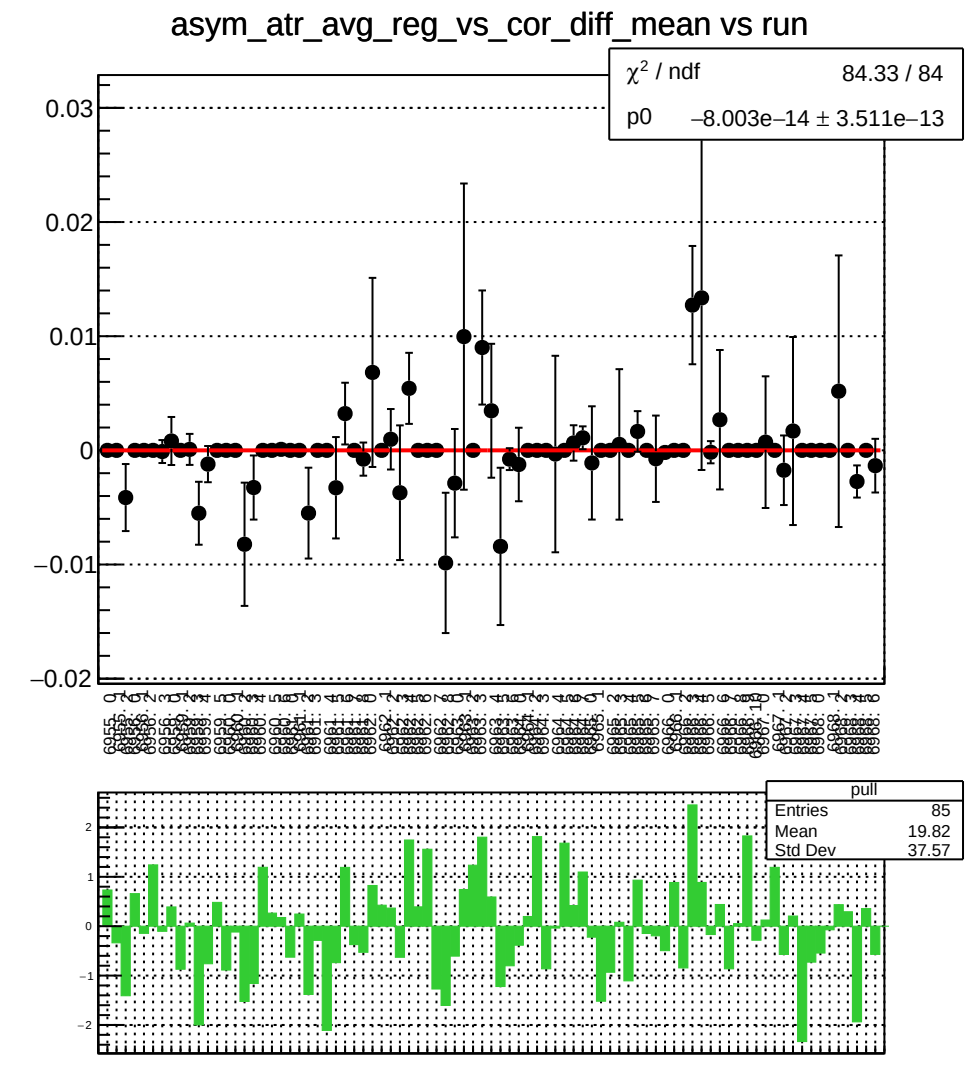

pull1D
Entries 85
Mean −0.01282
Std Dev 1.087

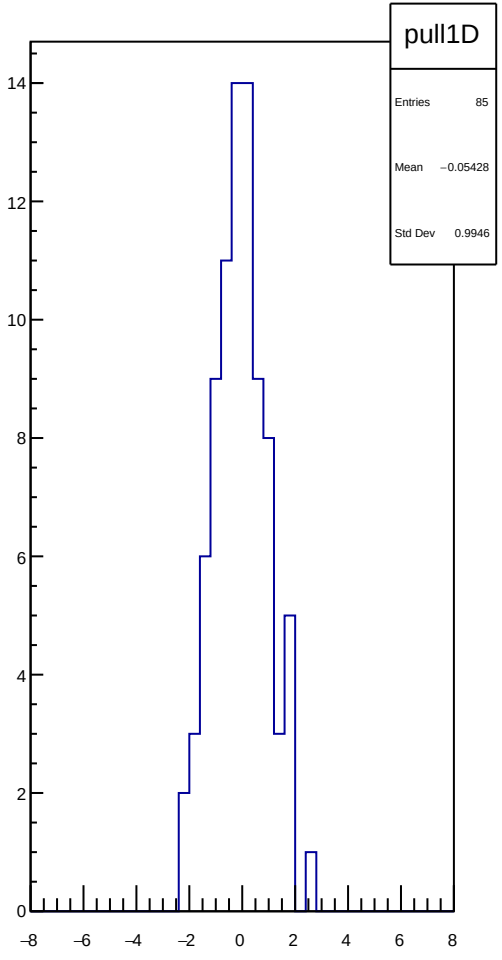

asym_atr_avg_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 1.405e+04 / 84
p0 6042 ± 4.734
7500
7000
6500
6000
5500
5000

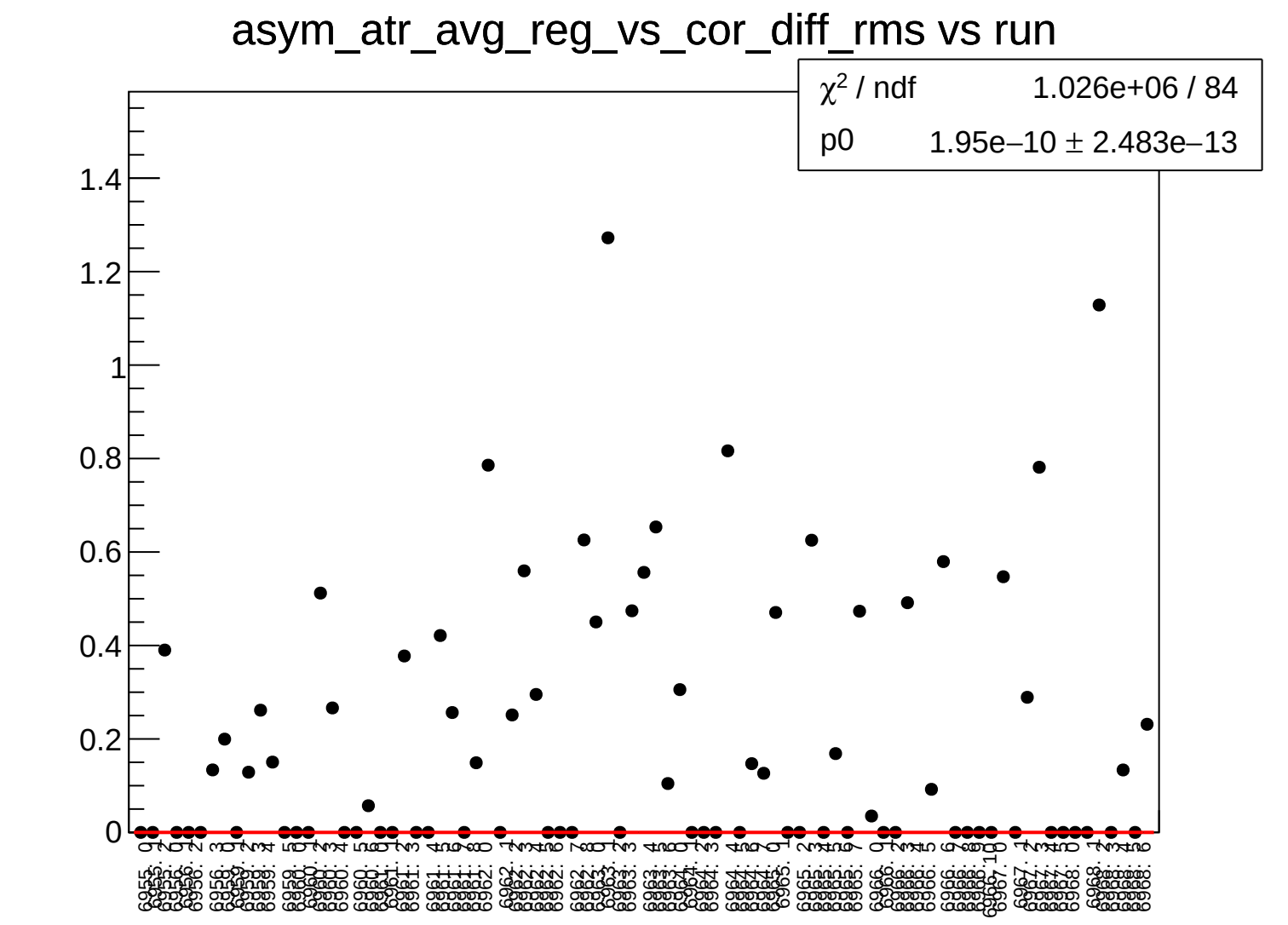

asym_atr_avg_mean vs run
×10^3
χ² / ndf 95.85 / 84
p0 404.7 ± 6703
pull
Entries 85
Mean −604
Std Dev 0

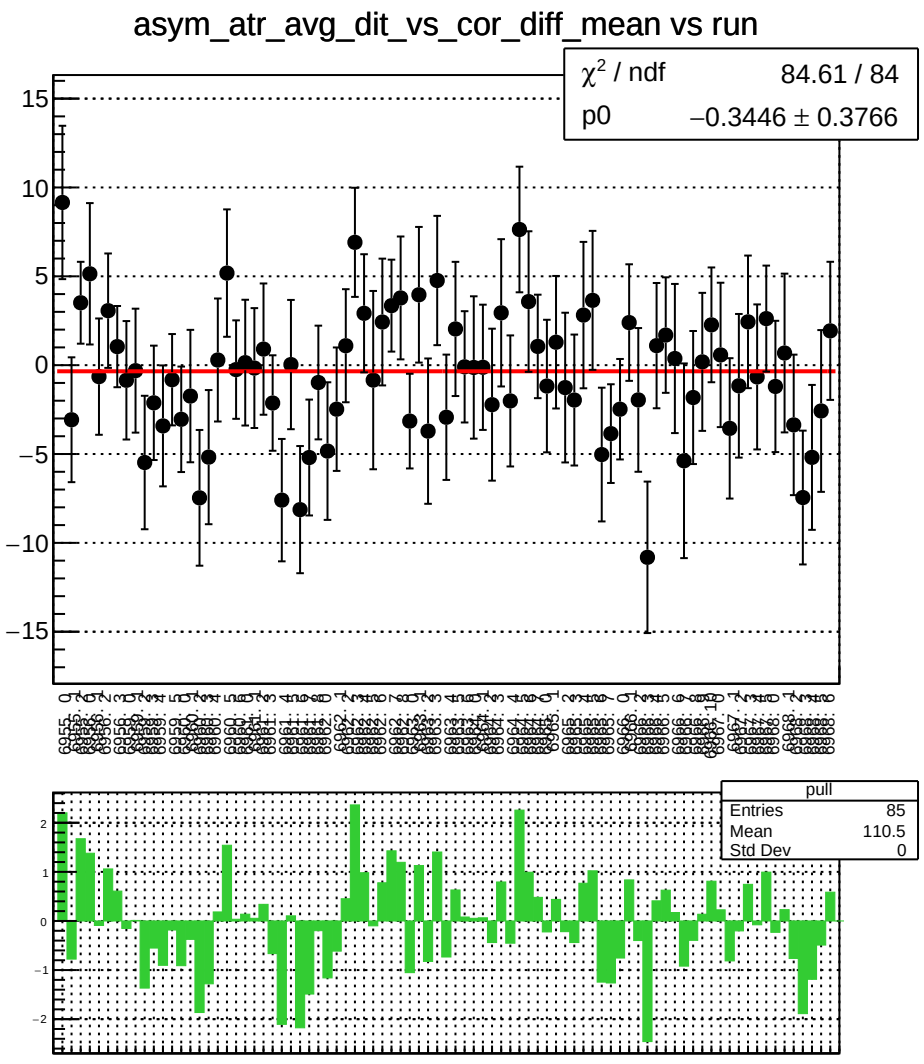

pull1D
Entries 85
Mean 0.003833
Std Dev 1.062

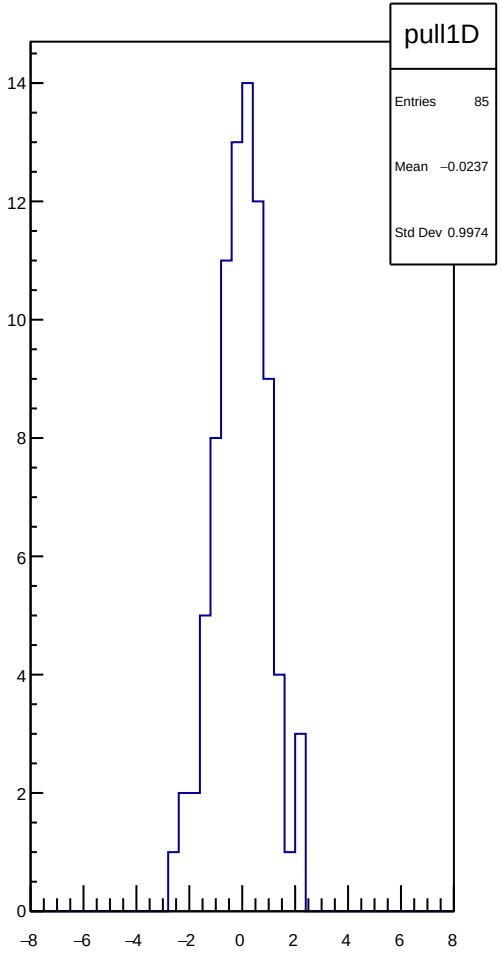

asym_atr_avg_rms vs run
χ² / ndf 1.172e+04 / 84
p0 6053 ± 4.74
7500
7000
6500
6000
5500
5000

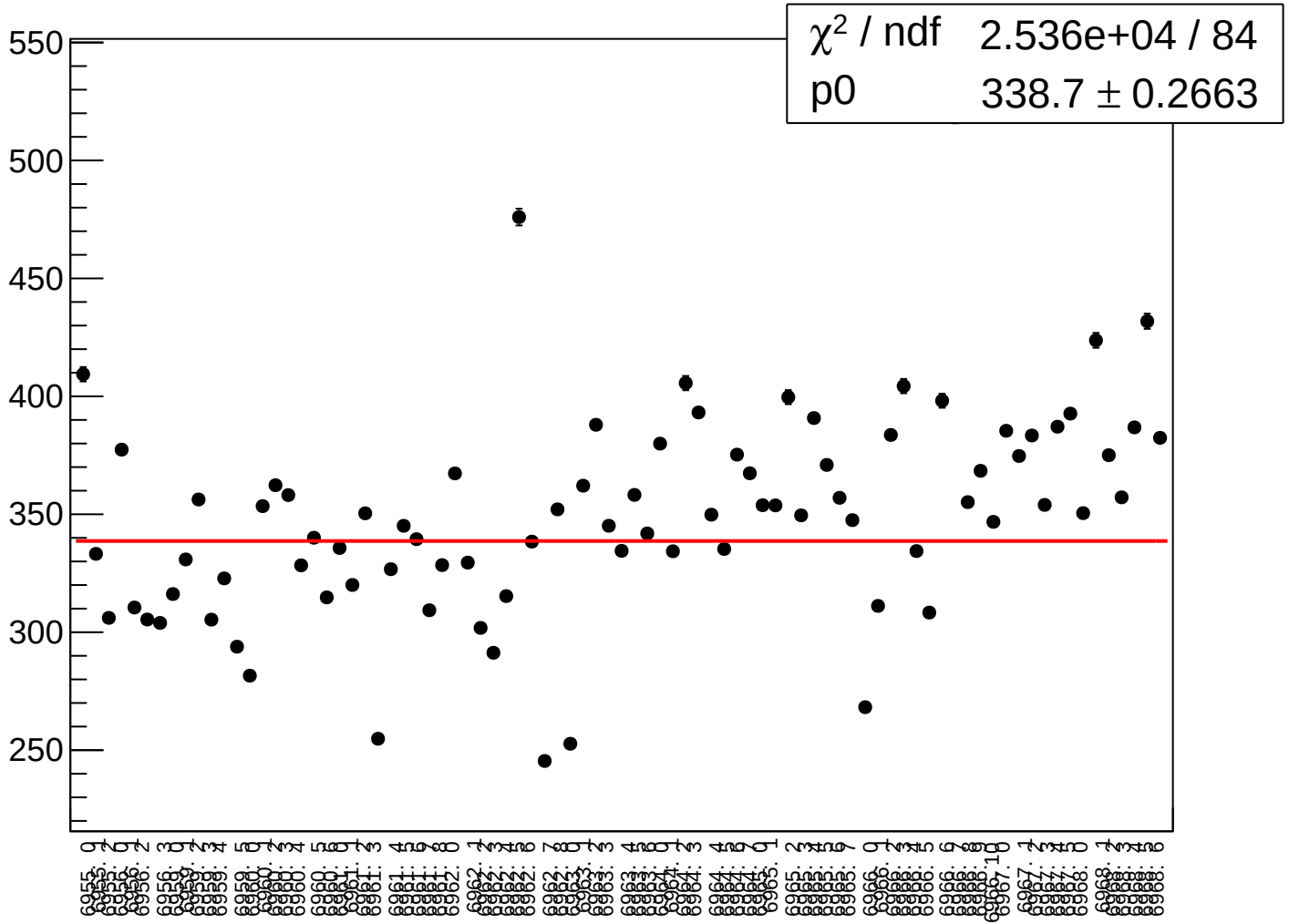

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.33 / 84
p0 −8.003e−14 ± 3.511e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean 19.82
Std Dev 37.57
2
1
0
−1
−2

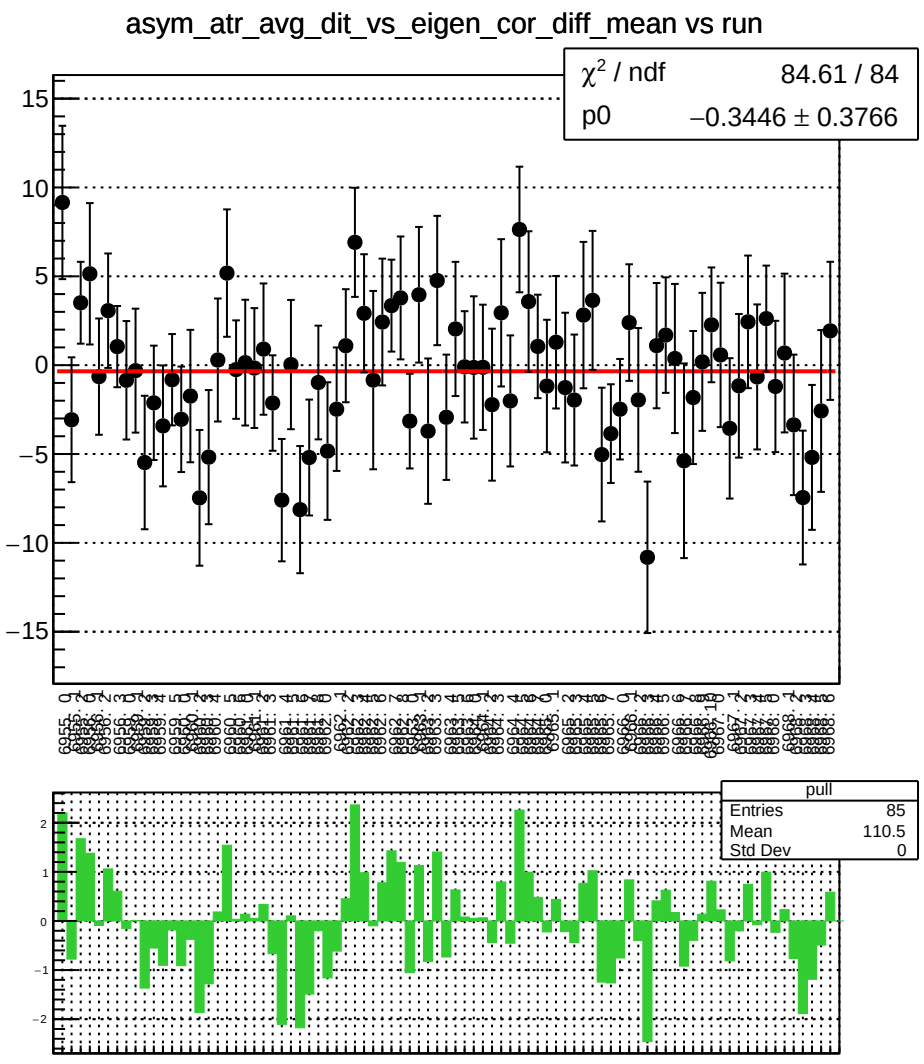

pull1D
Entries 85
Mean −0.05428
Std Dev 0.9946
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

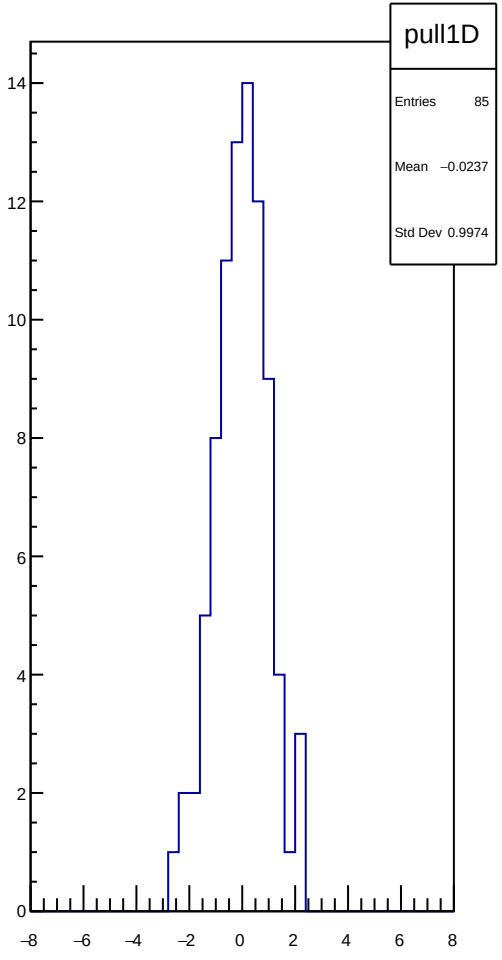

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 84
p0 1.95e−10 ± 2.483e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

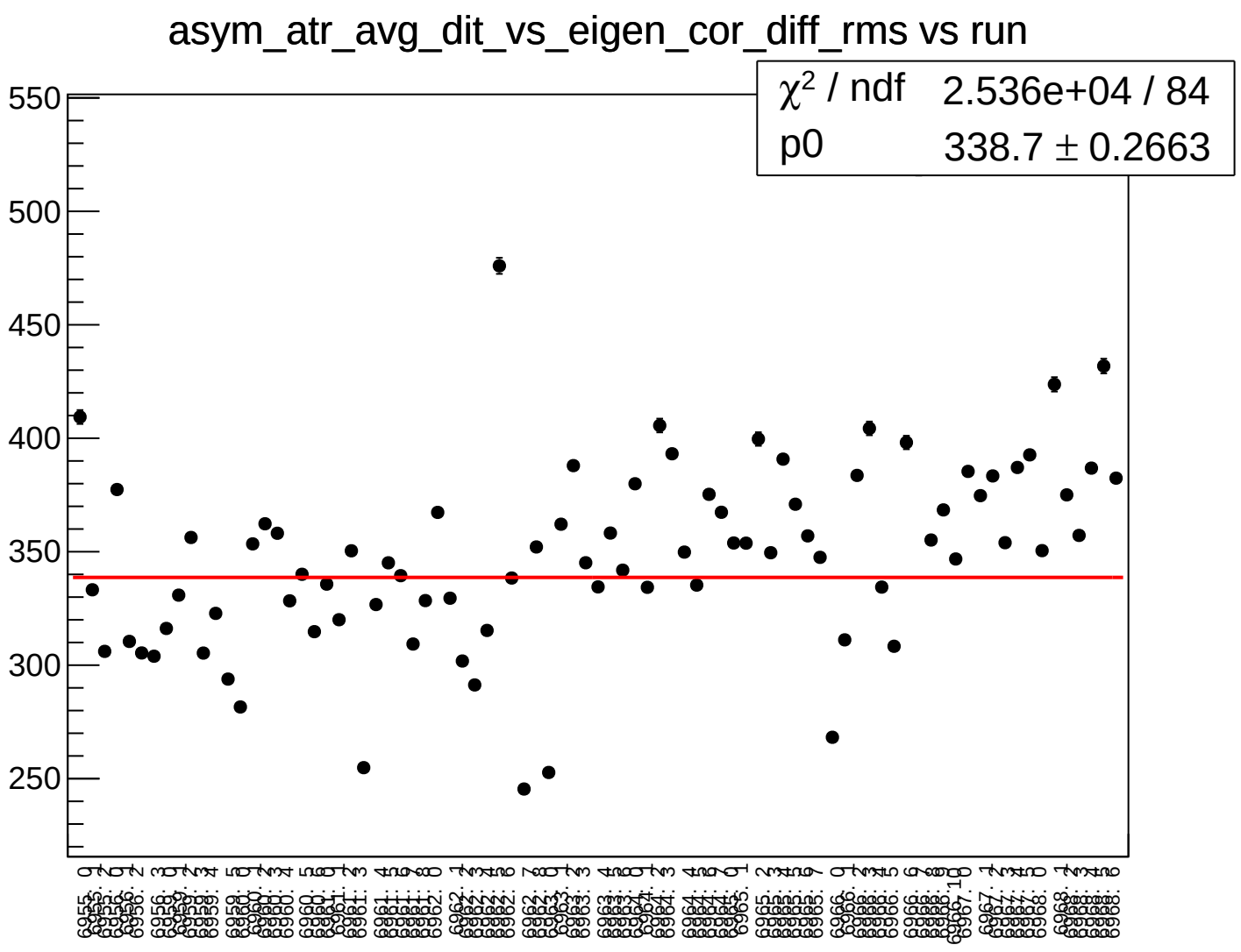

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.61 / 84
p0 −0.3446 ± 0.3766
pull
Entries 85
Mean 110.5
Std Dev 0

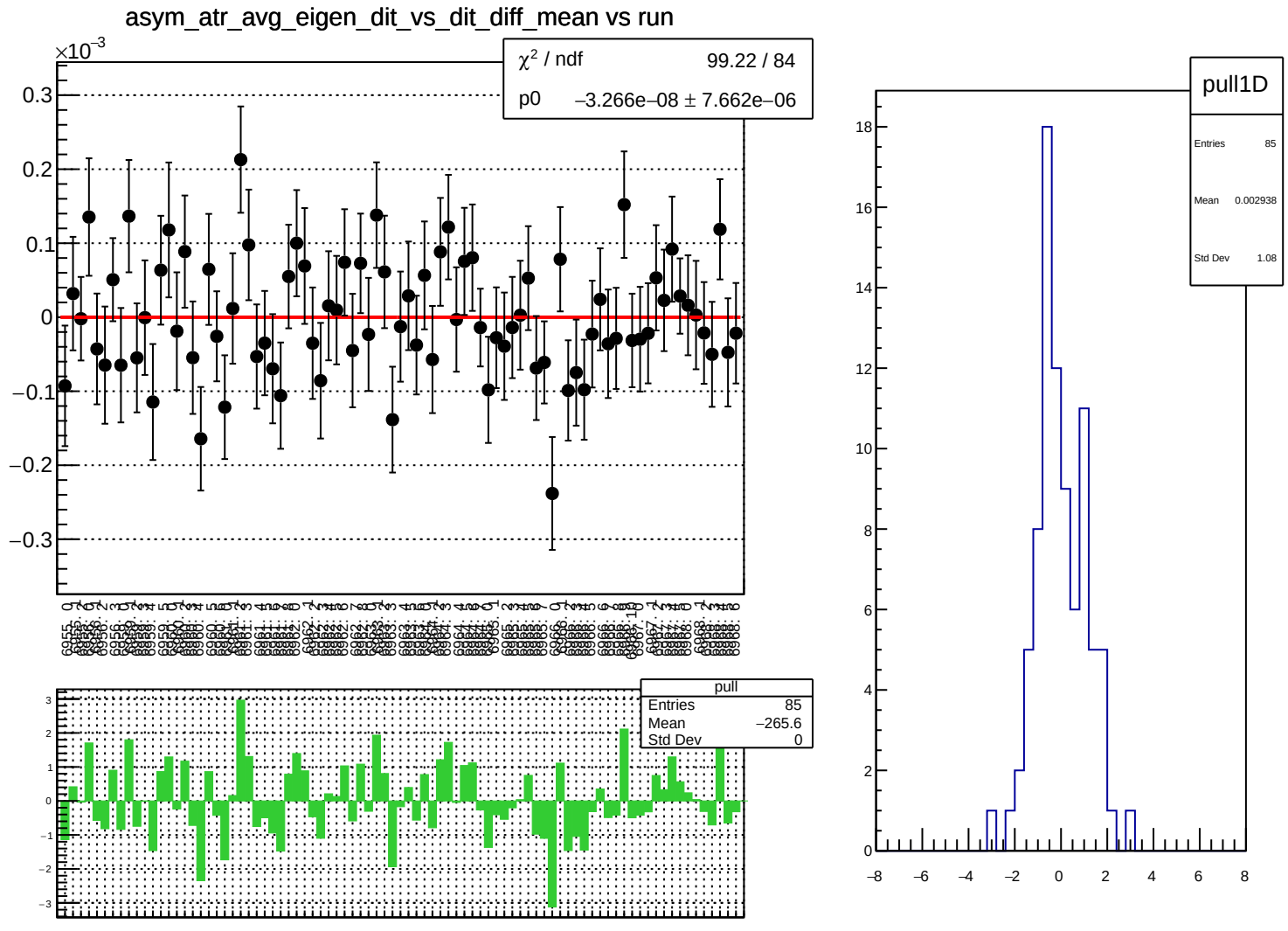

pull1D
Entries 85
Mean −0.0237
Std Dev 0.9974

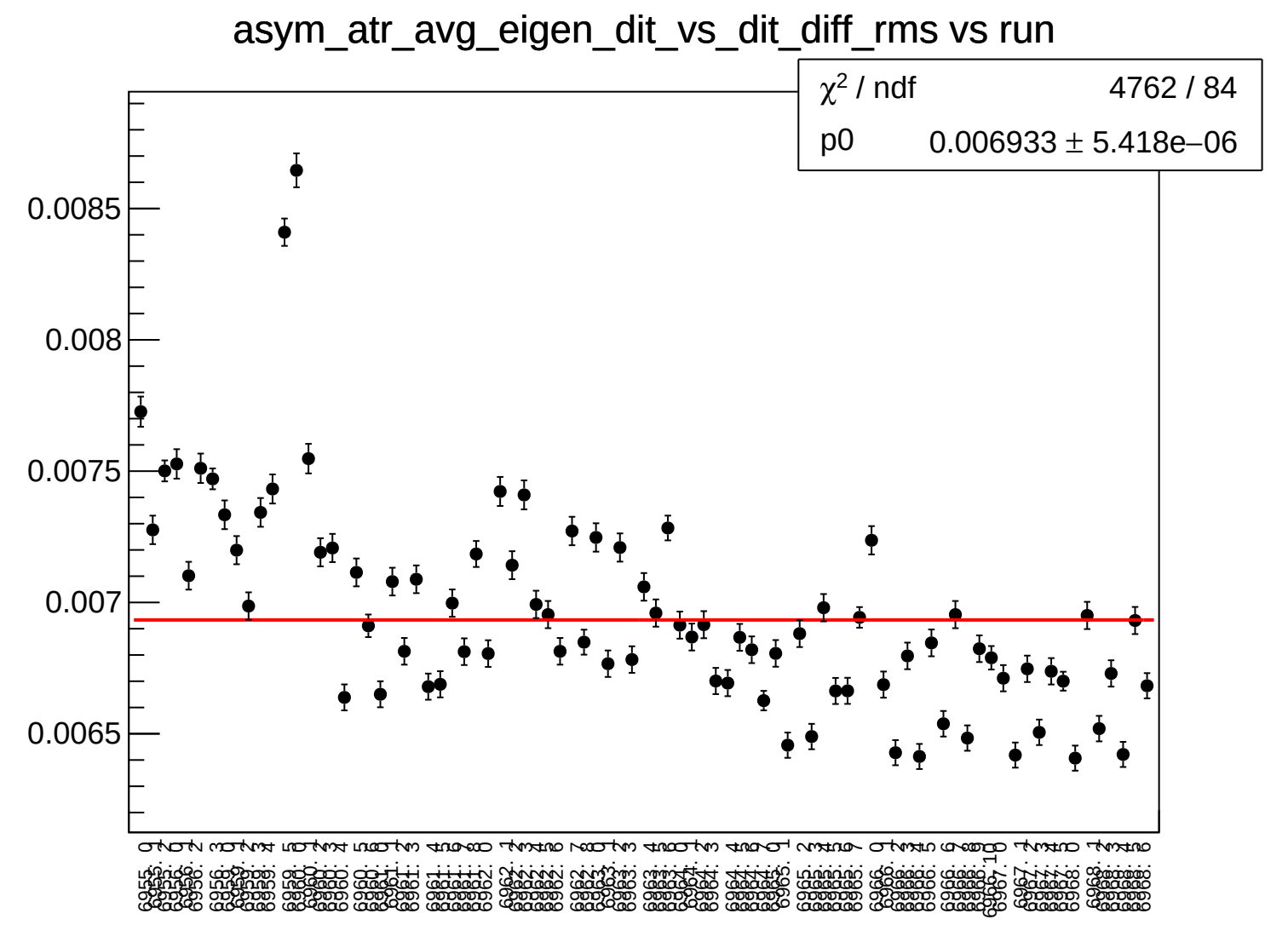

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.536e+04 / 84
p0 338.7 ± 0.2663
550
500
450
400
350
300
250

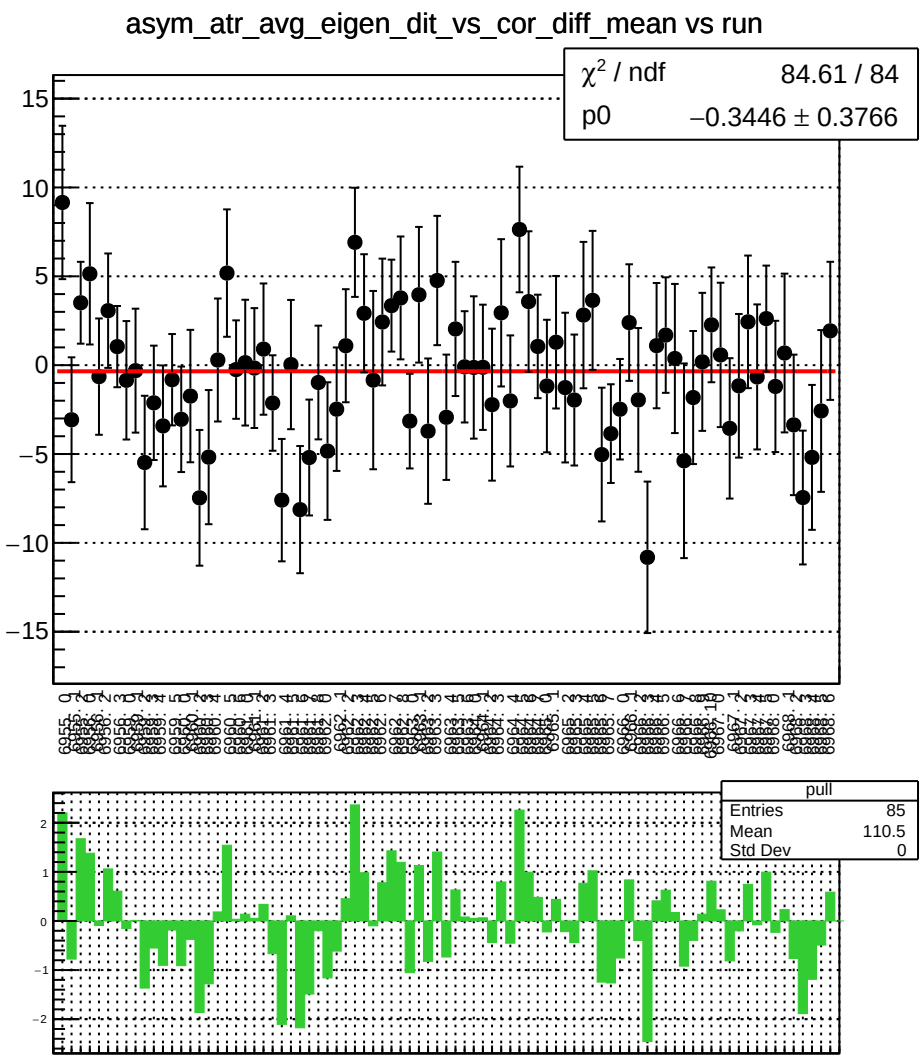

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.61 / 84
p0 −0.3446 ± 0.3766
pull
Entries 85
Mean 110.5
Std Dev 0

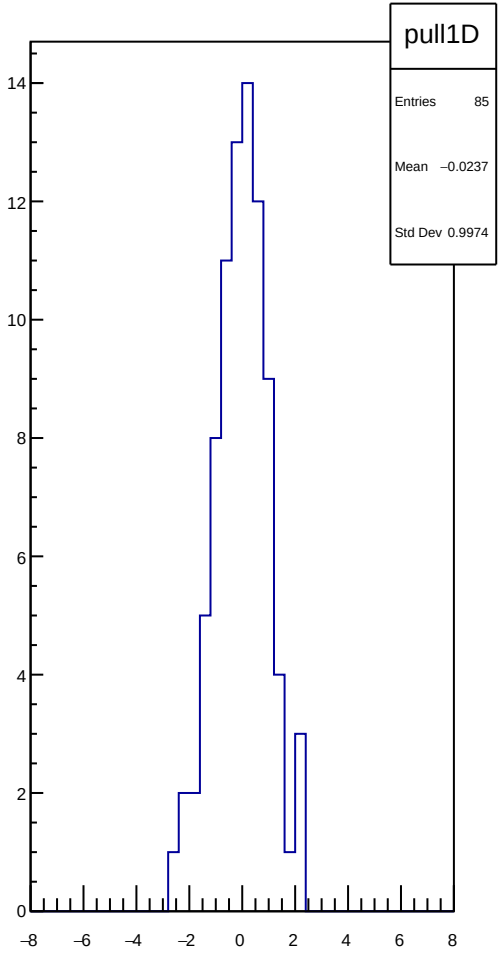

pull1D
Entries 85
Mean −0.0237
Std Dev 0.9974

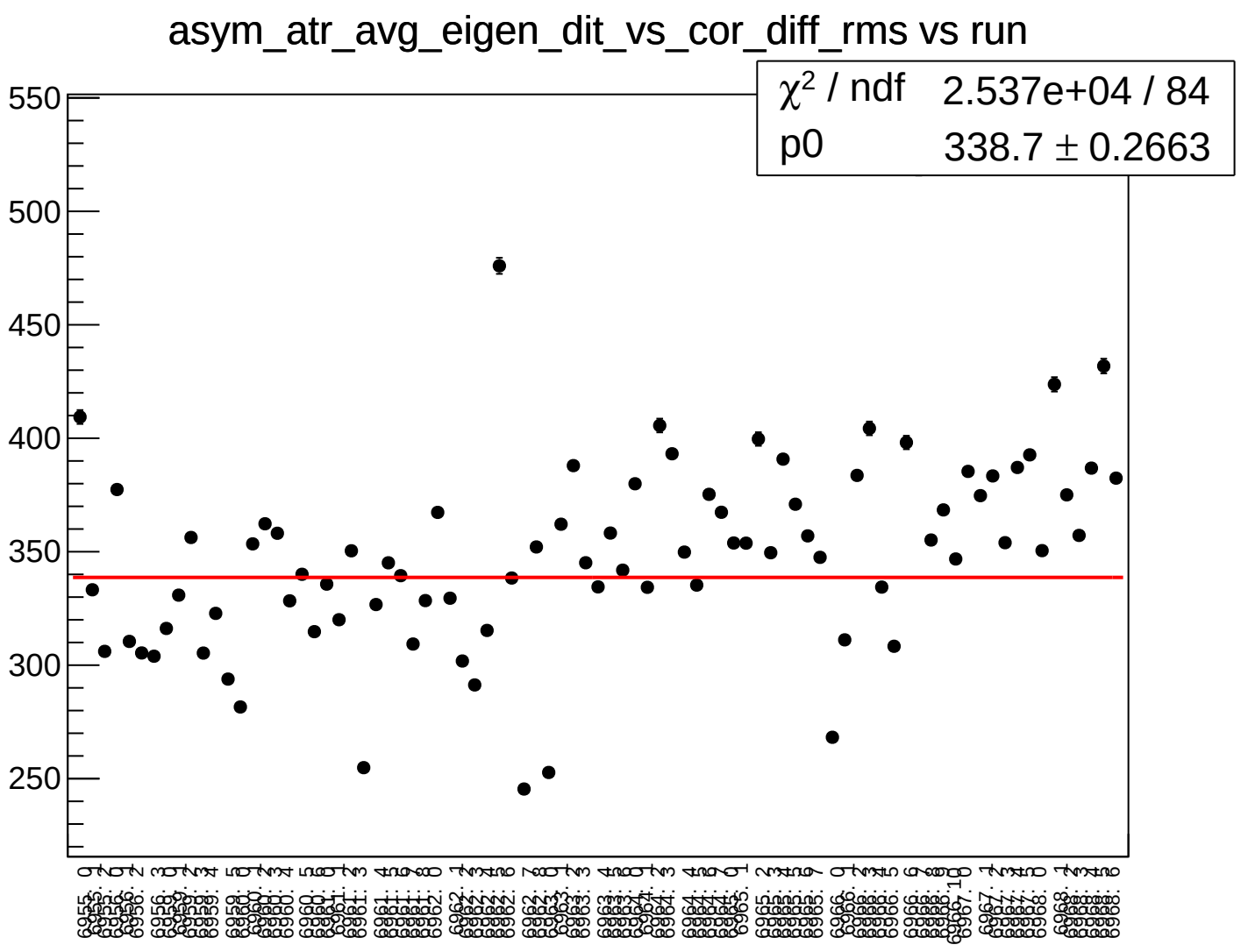

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.536e+04 / 84
p0 338.7 ± 0.2663
550
500
450
400
350
300
250

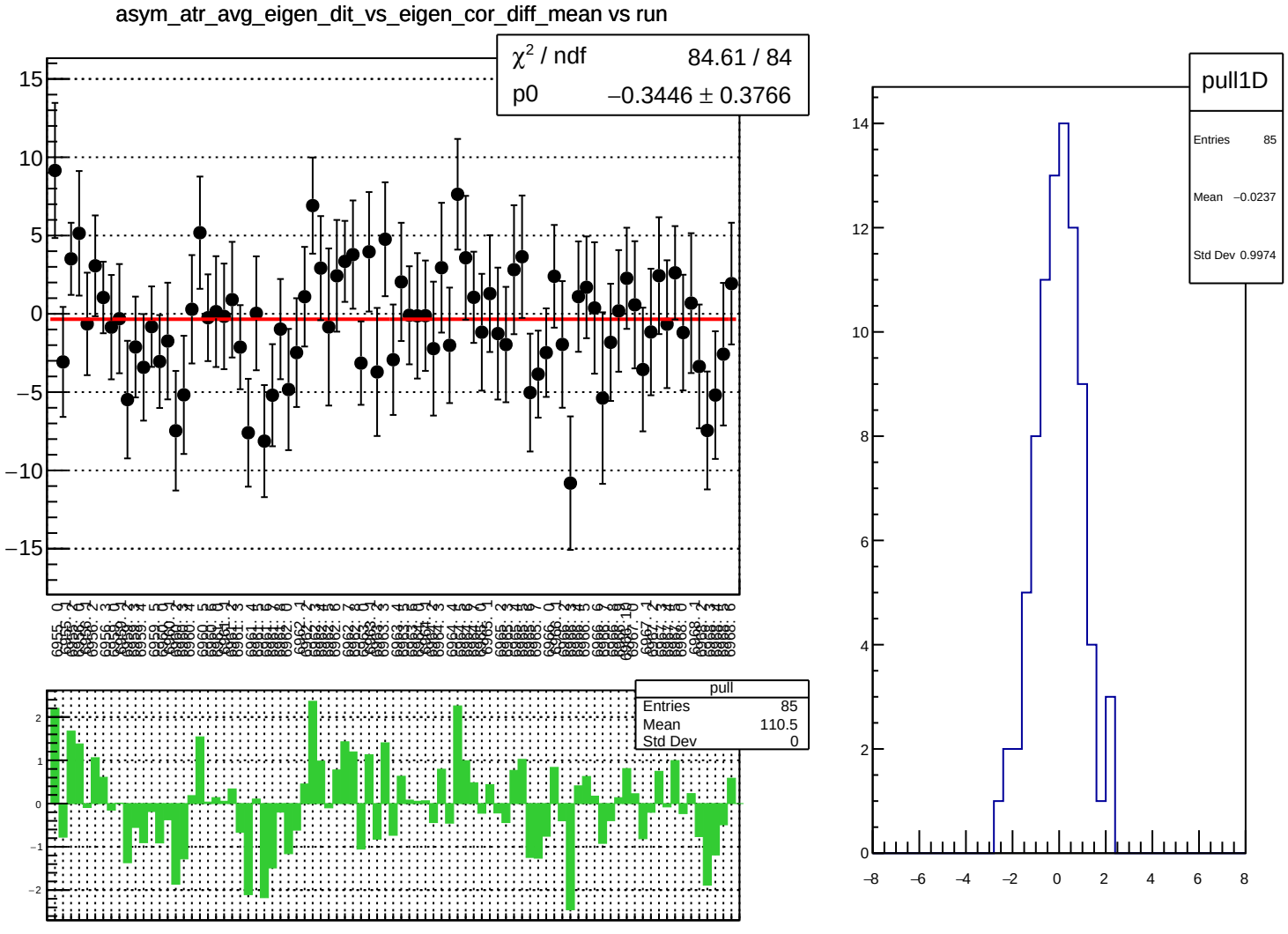

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.22 / 84
p0 −3.266e−08 ± 7.662e−06
pull
Entries 85
Mean −265.6
Std Dev 0
pull1D
Entries 85
Mean 0.002938
Std Dev 1.08

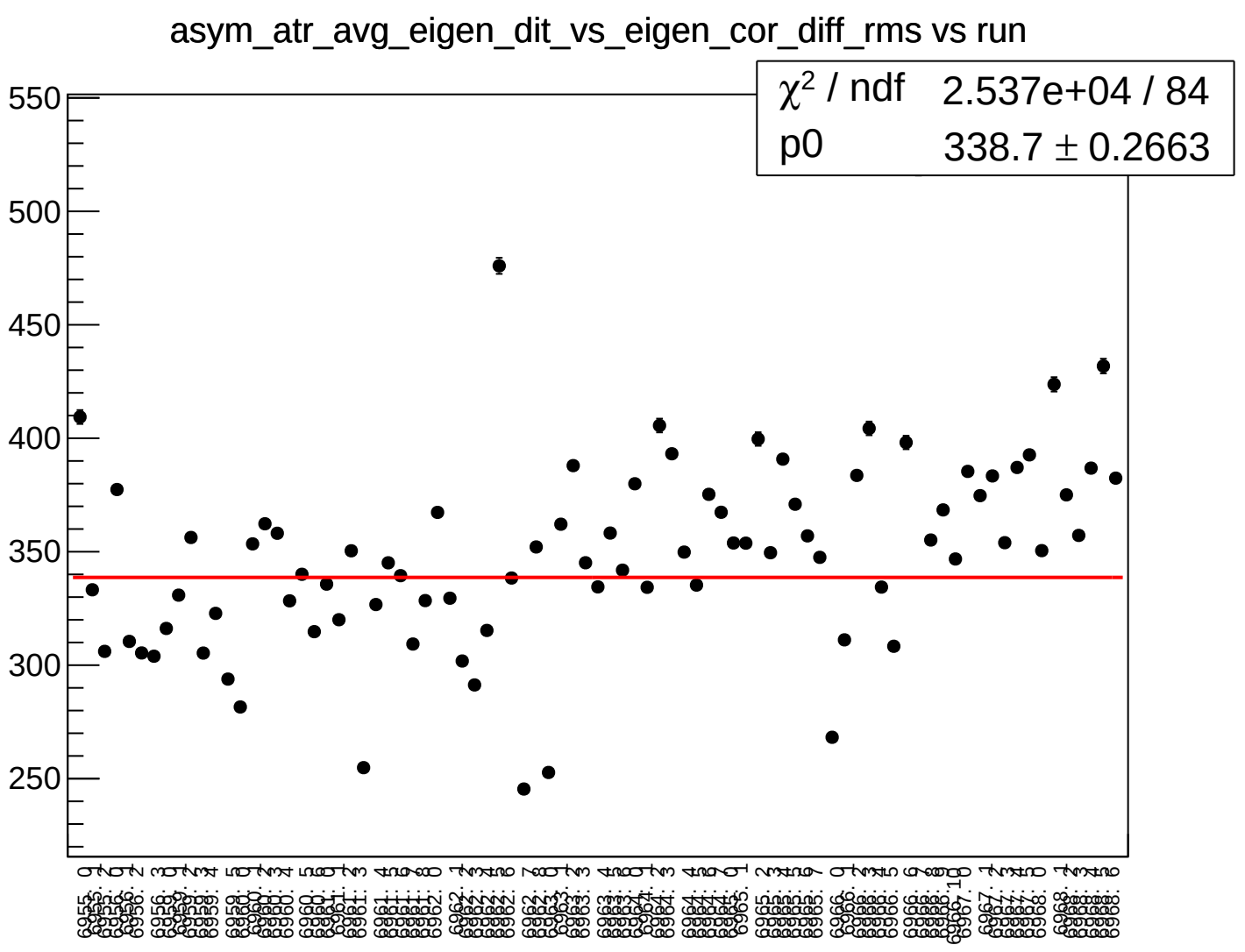

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4762 / 84
p0 0.006933 ± 5.418e−06
0.0085
0.008
0.0075
0.007
0.0065

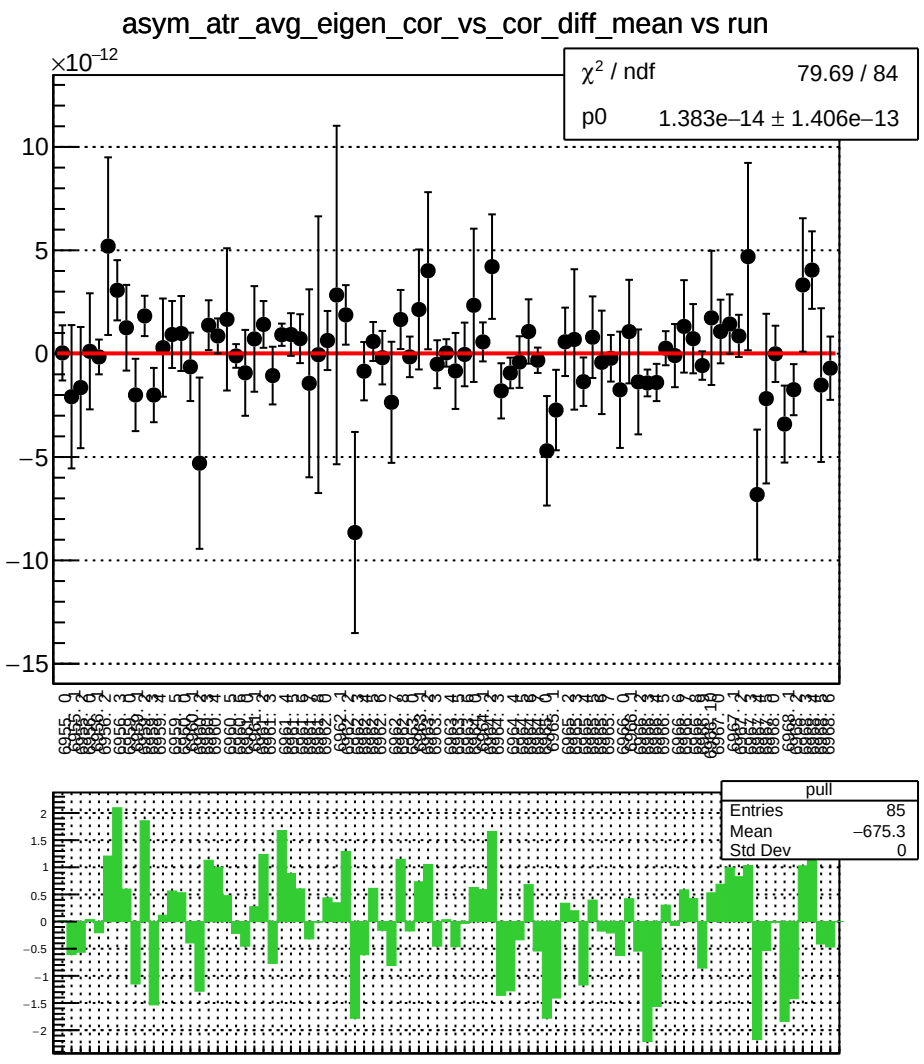

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.61 / 84
p0 −0.3446 ± 0.3766
pull
Entries 85
Mean 110.5
Std Dev 0

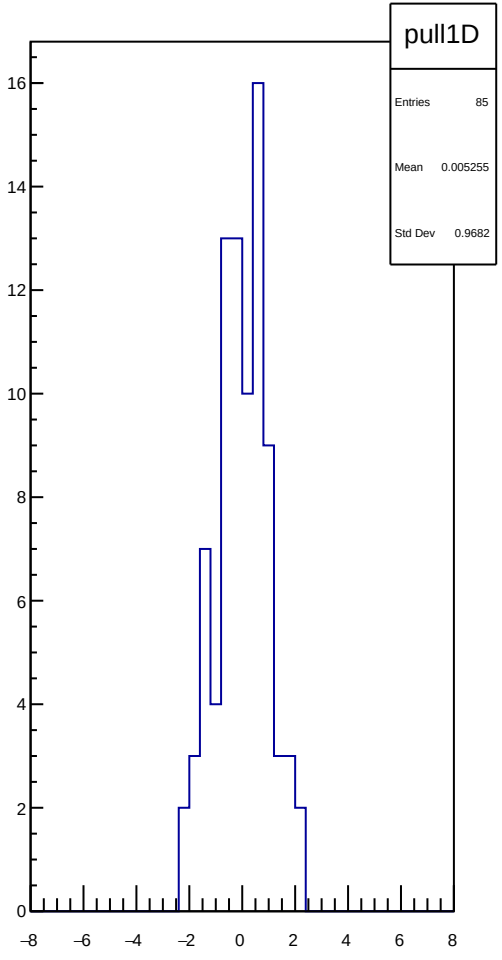

pull1D
Entries 85
Mean −0.0237
Std Dev 0.9974

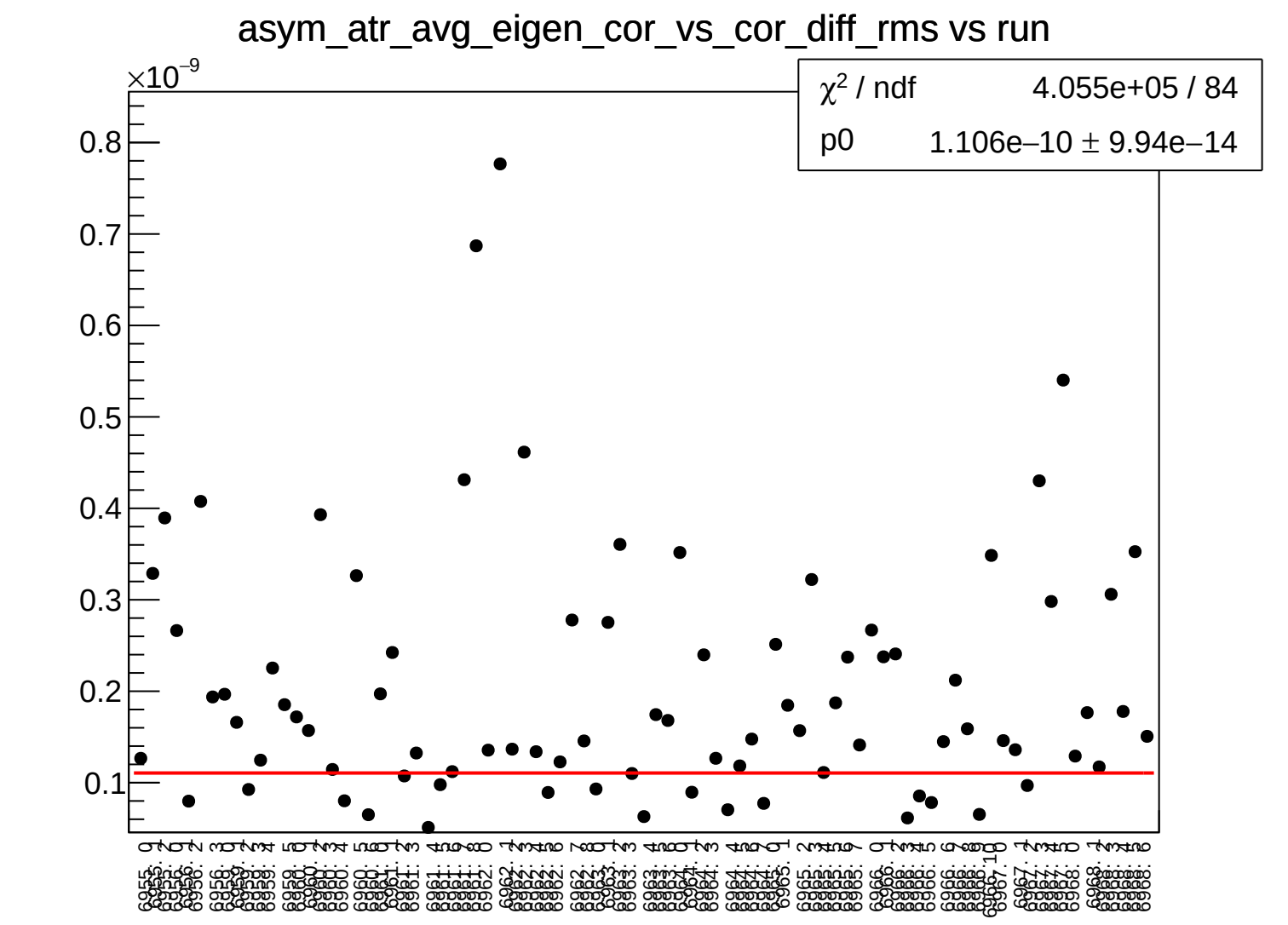

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.537e+04 / 84
p0 338.7 ± 0.2663
550
500
450
400
350
300
250

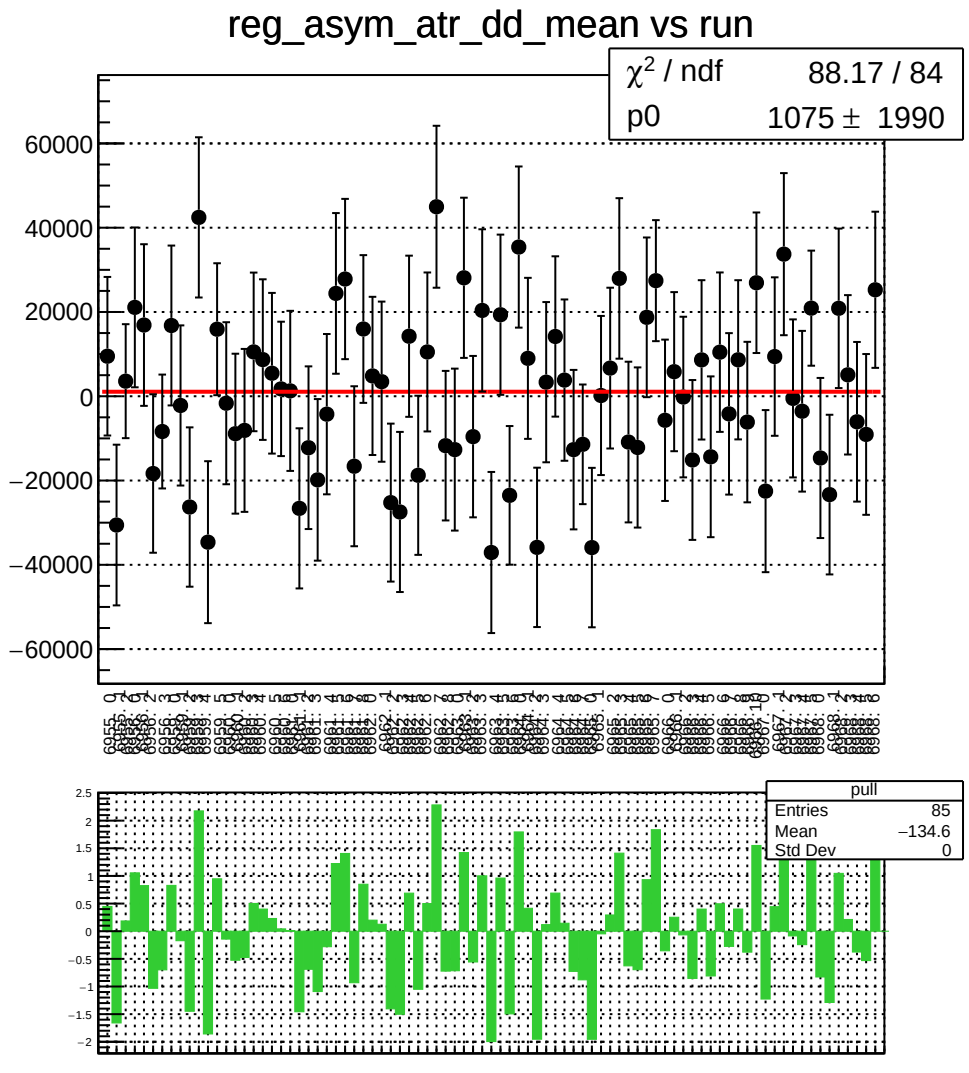

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.61 / 84
p0 −0.3446 ± 0.3766
pull
Entries 85
Mean 110.5
Std Dev 0
pull1D
Entries 85
Mean −0.0237
Std Dev 0.9974

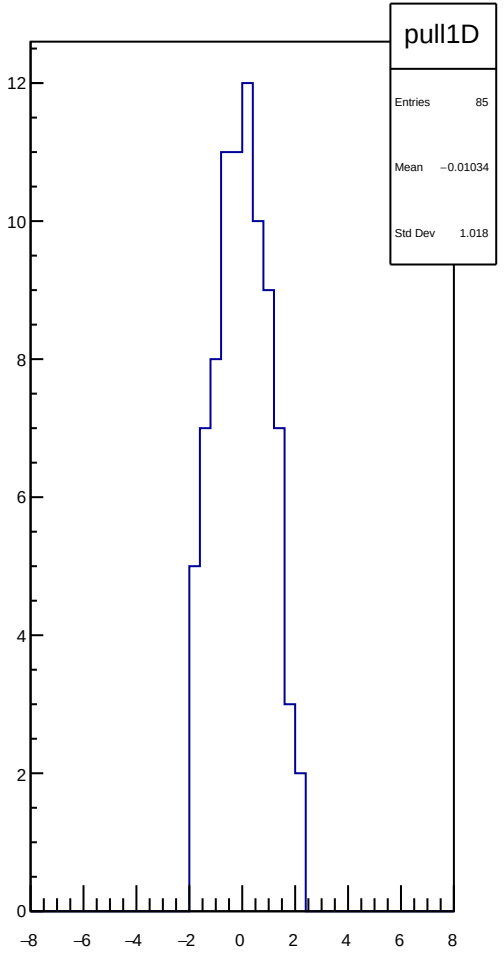

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.537e+04 / 84
p0 338.7 ± 0.2663
550
500
450
400
350
300
250

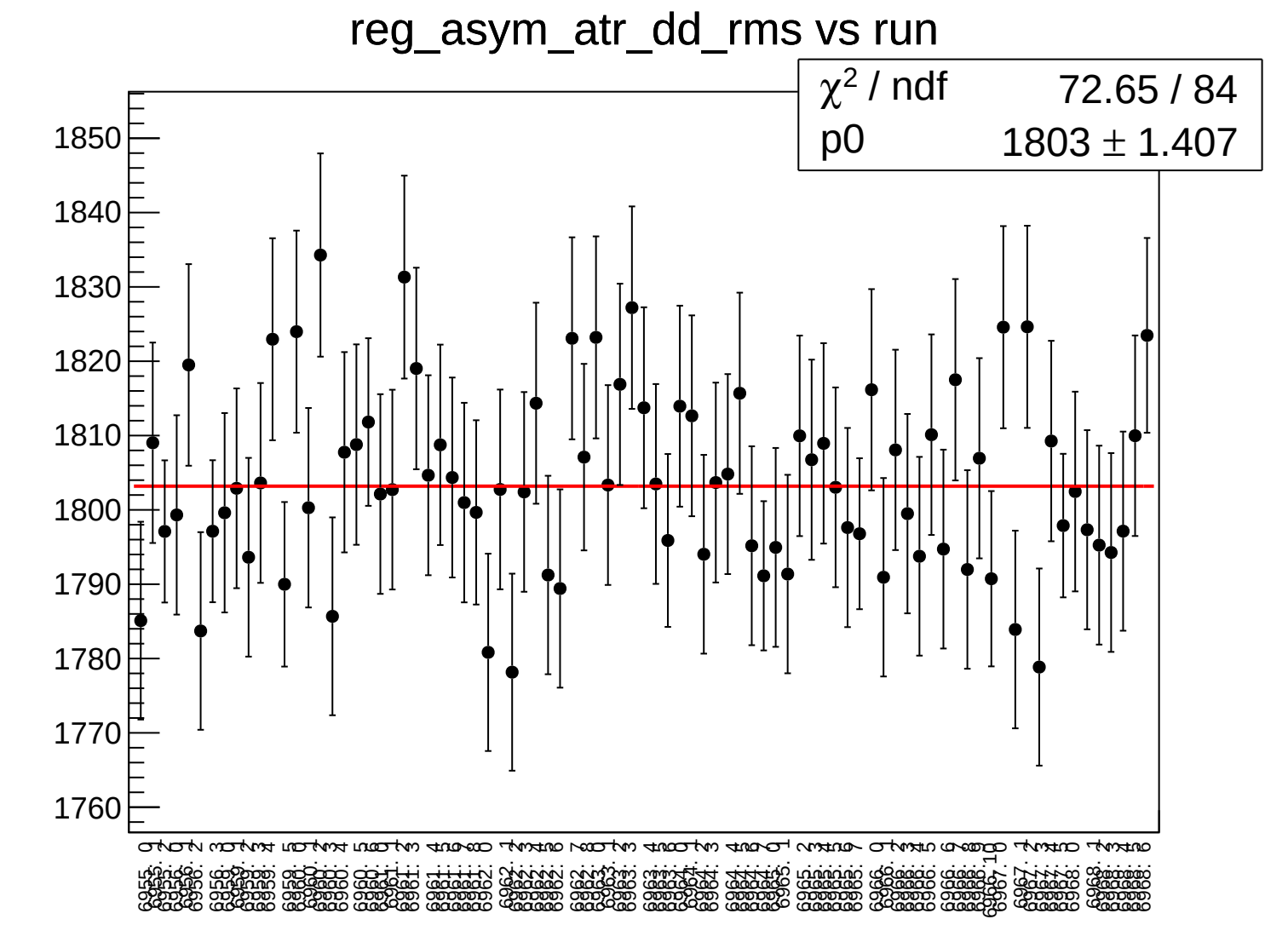

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.69 / 84
p0 1.383e−14 ± 1.406e−13
pull
Entries 85
Mean −675.3
Std Dev 0

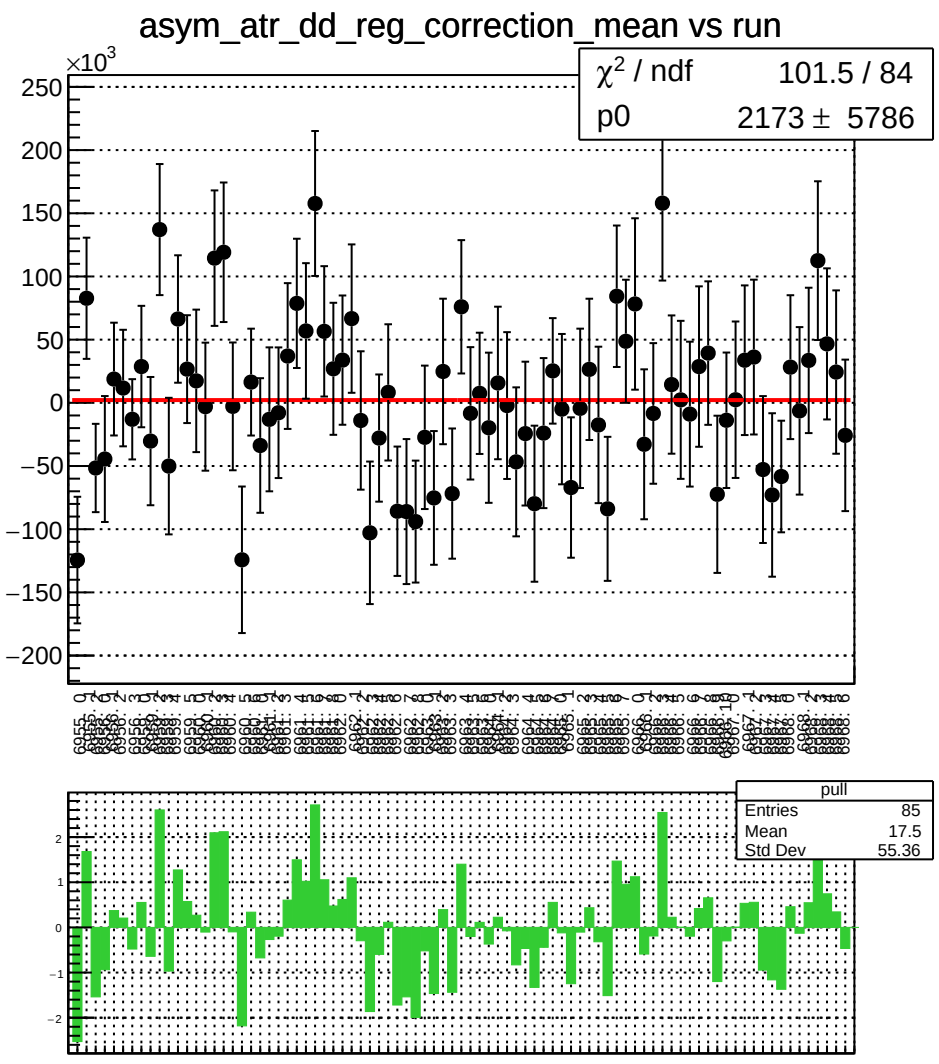

pull1D
Entries 85
Mean 0.005255
Std Dev 0.9682

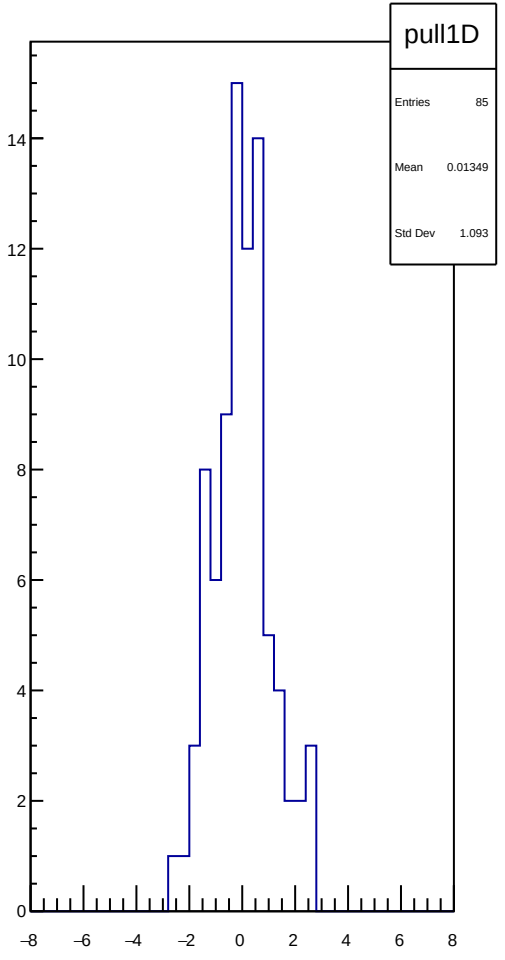

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.055e+05 / 84
p0 1.106e−10 ± 9.94e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

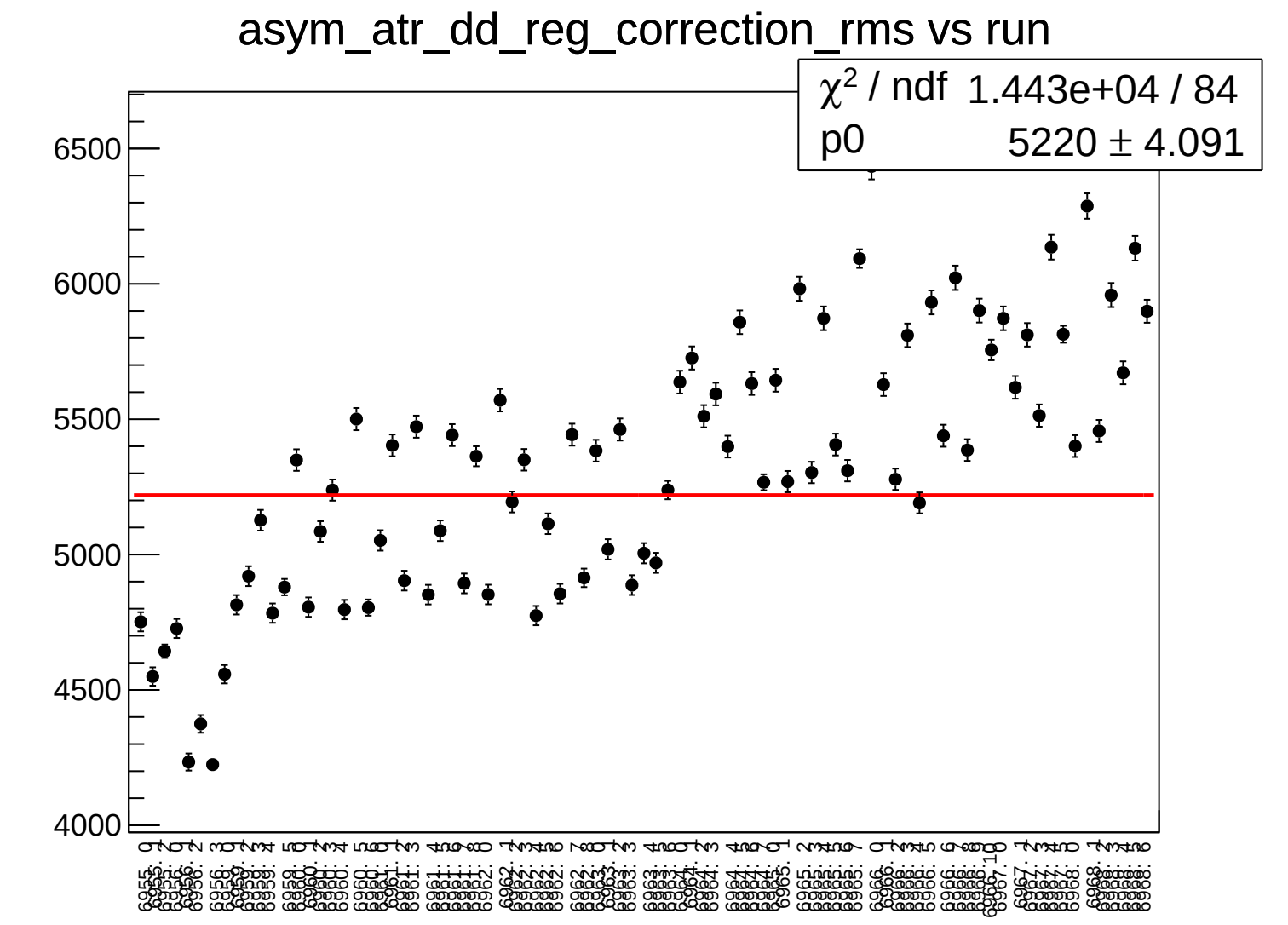

reg_asym_atr_dd_mean vs run
χ² / ndf 88.17 / 84
p0 1075 ± 1990
pull
Entries 85
Mean −134.6
Std Dev 0

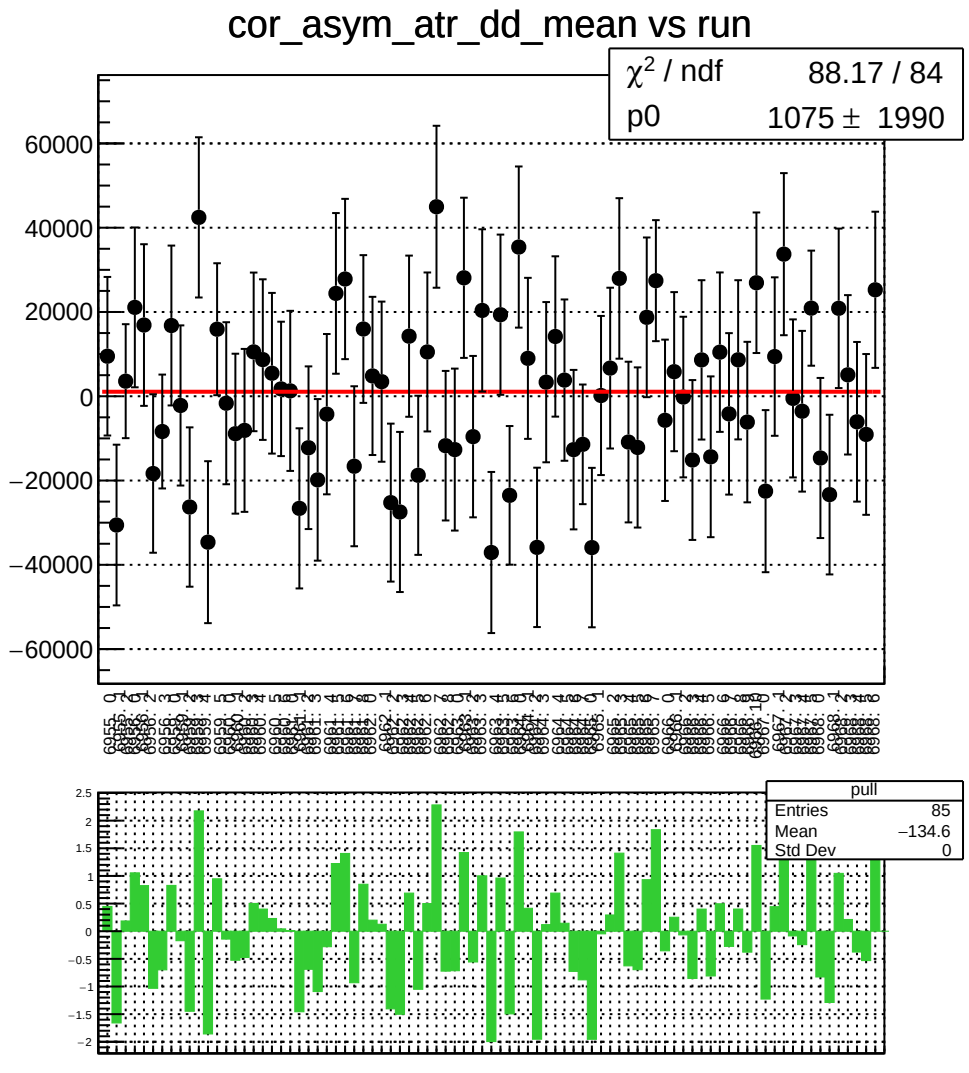

pull1D
Entries 85
Mean −0.01034
Std Dev 1.018

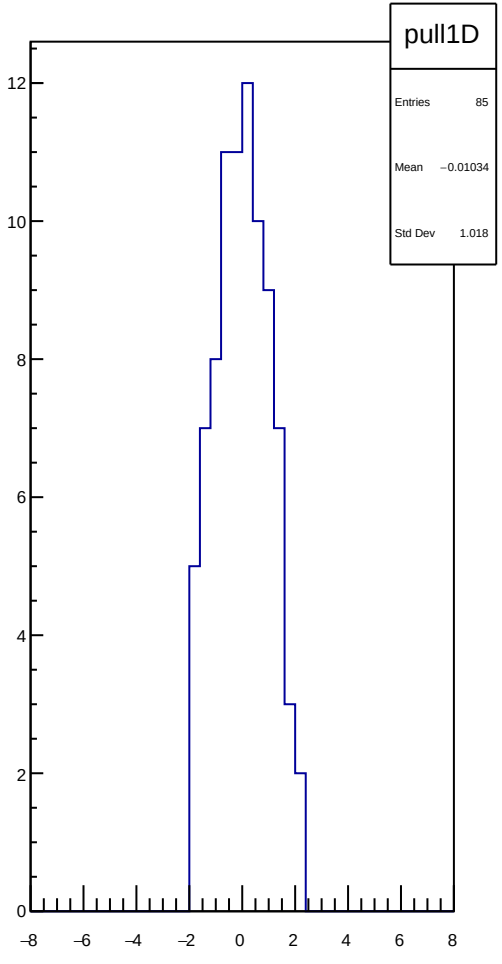

reg_asym_atr_dd_rms vs run
$\chi^2$ / ndf 72.65 / 84
p0 1803 ± 1.407
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

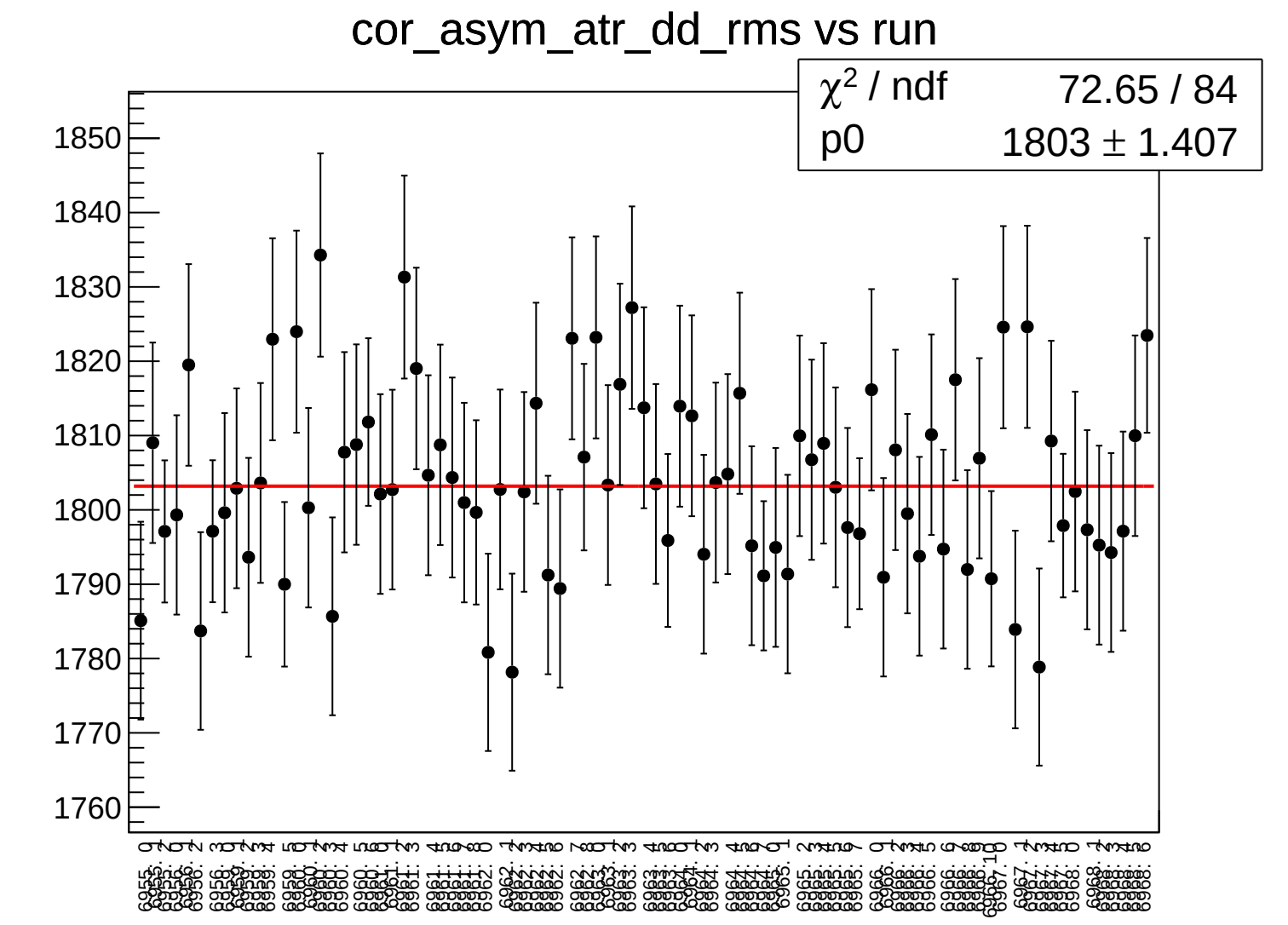

asym_atr_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 101.5 / 84
p0 2173 ± 5786
pull
Entries 85
Mean 17.5
Std Dev 55.36

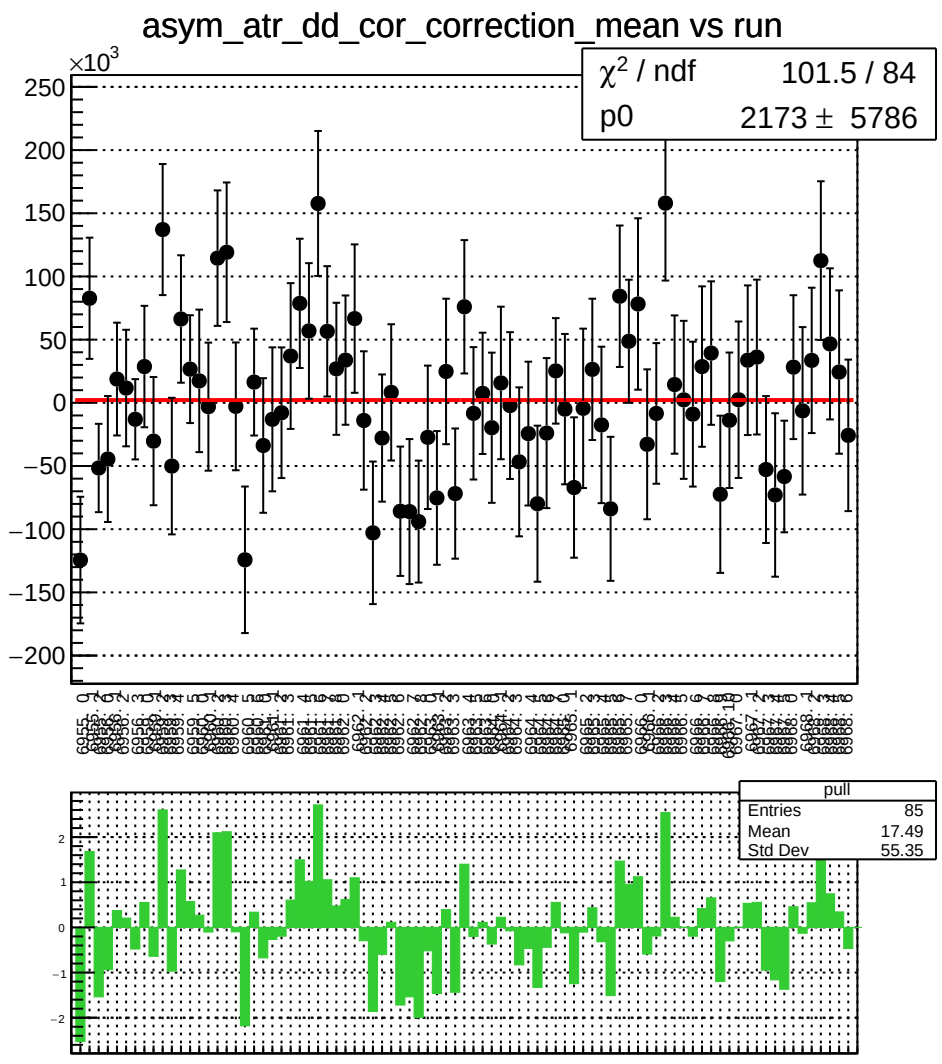

pull1D
Entries 85
Mean 0.01349
Std Dev 1.093

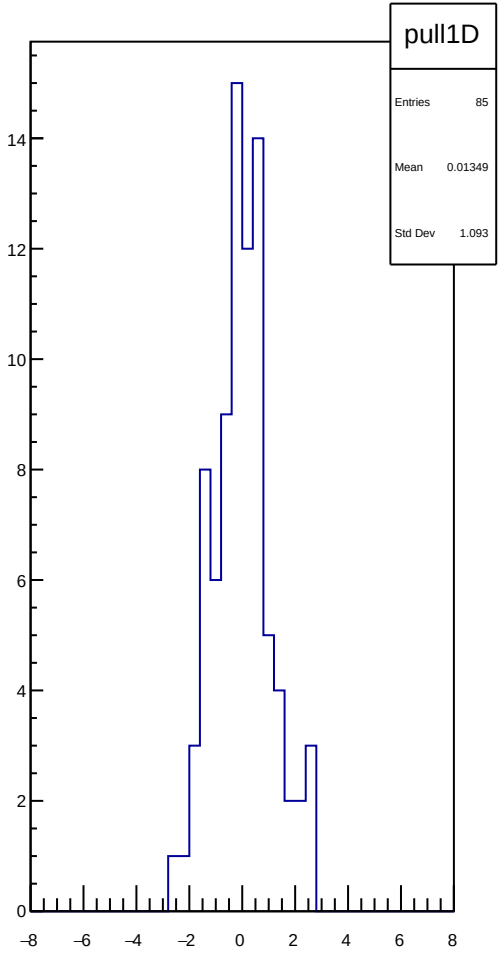

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.443e+04 / 84
p0 5220 ± 4.091
6500
6000
5500
5000
4500
4000

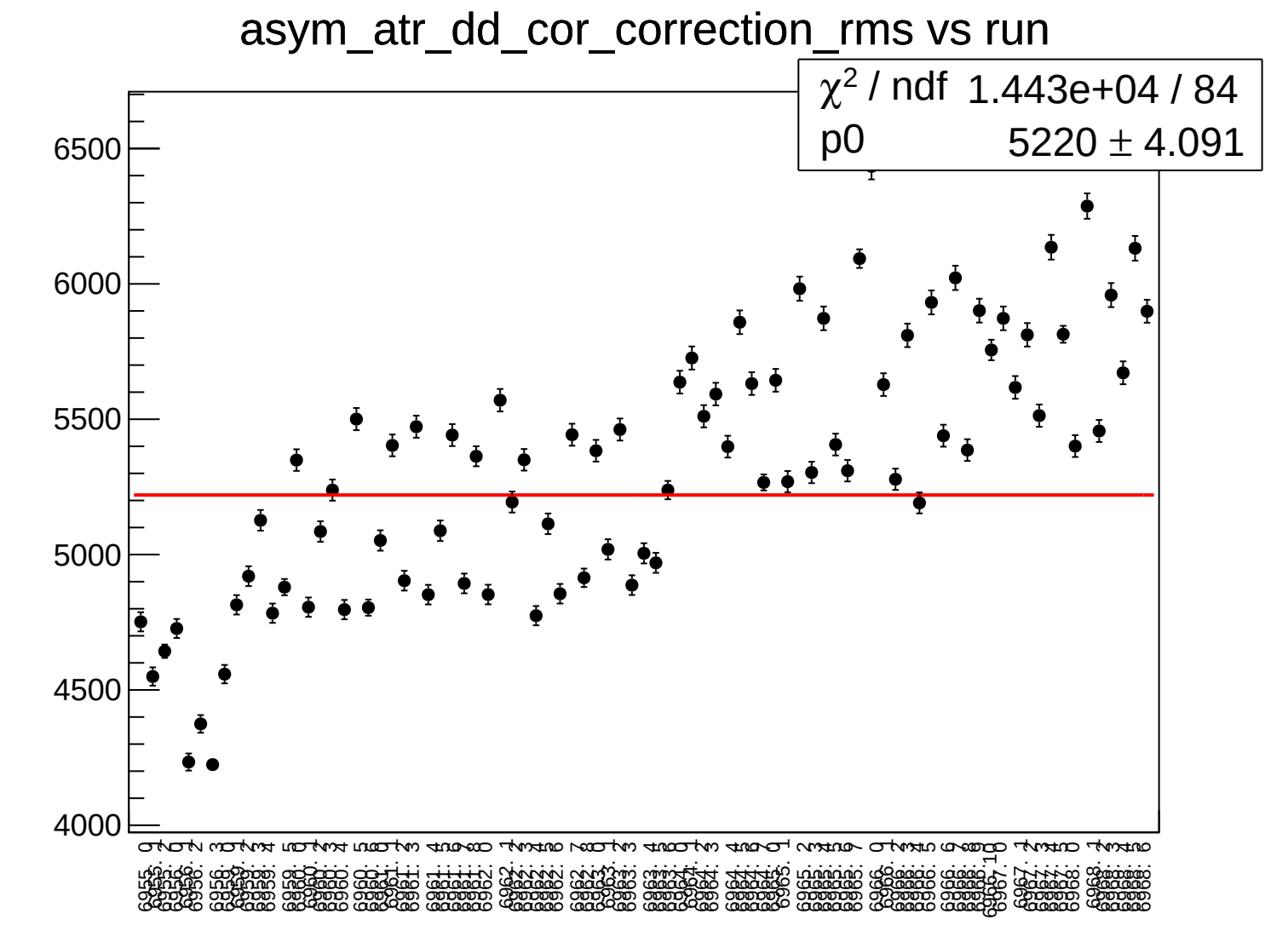

cor_asym_atr_dd_mean vs run
χ² / ndf 88.17 / 84
p0 1075 ± 1990
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −134.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

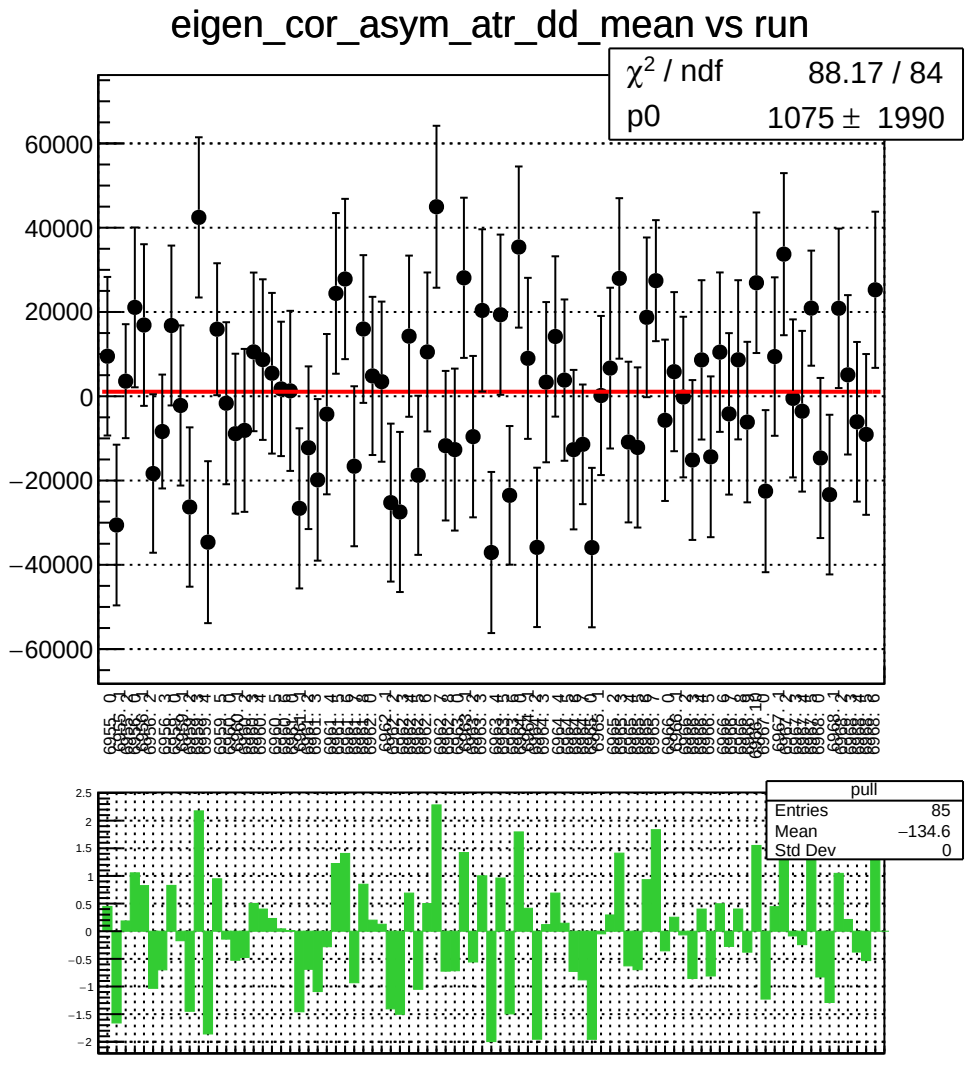

pull1D
Entries 85
Mean −0.01034
Std Dev 1.018
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

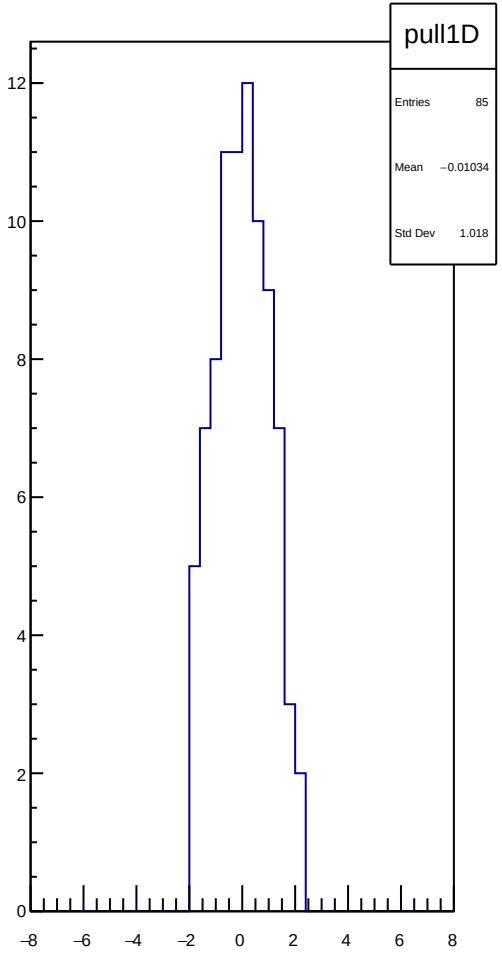

cor_asym_atr_dd_rms vs run
χ² / ndf 72.65 / 84
p0 1803 ± 1.407
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

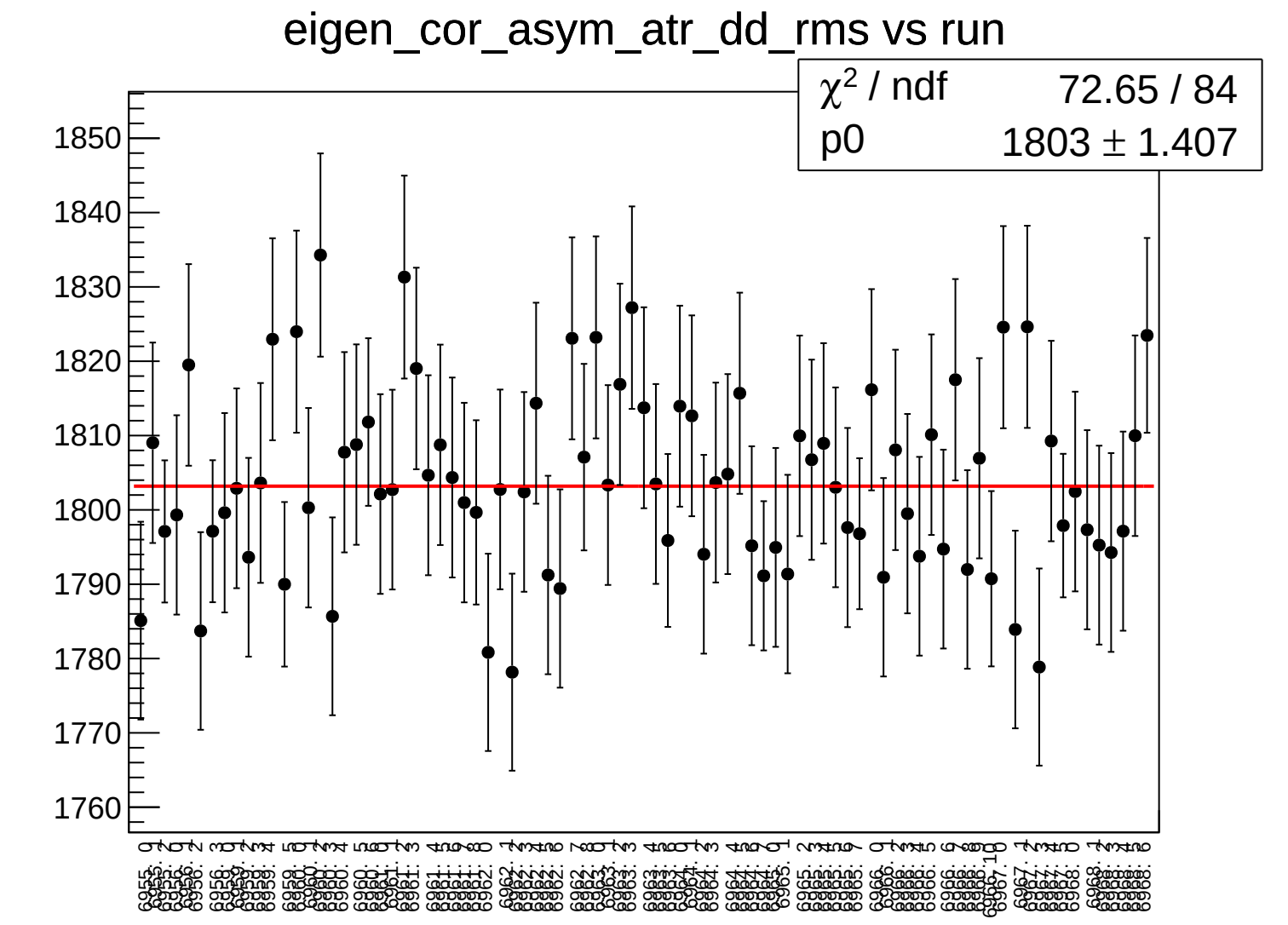

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 101.5 / 84
p0 2173 ± 5786
×10³
pull
Entries 85
Mean 17.49
Std Dev 55.35

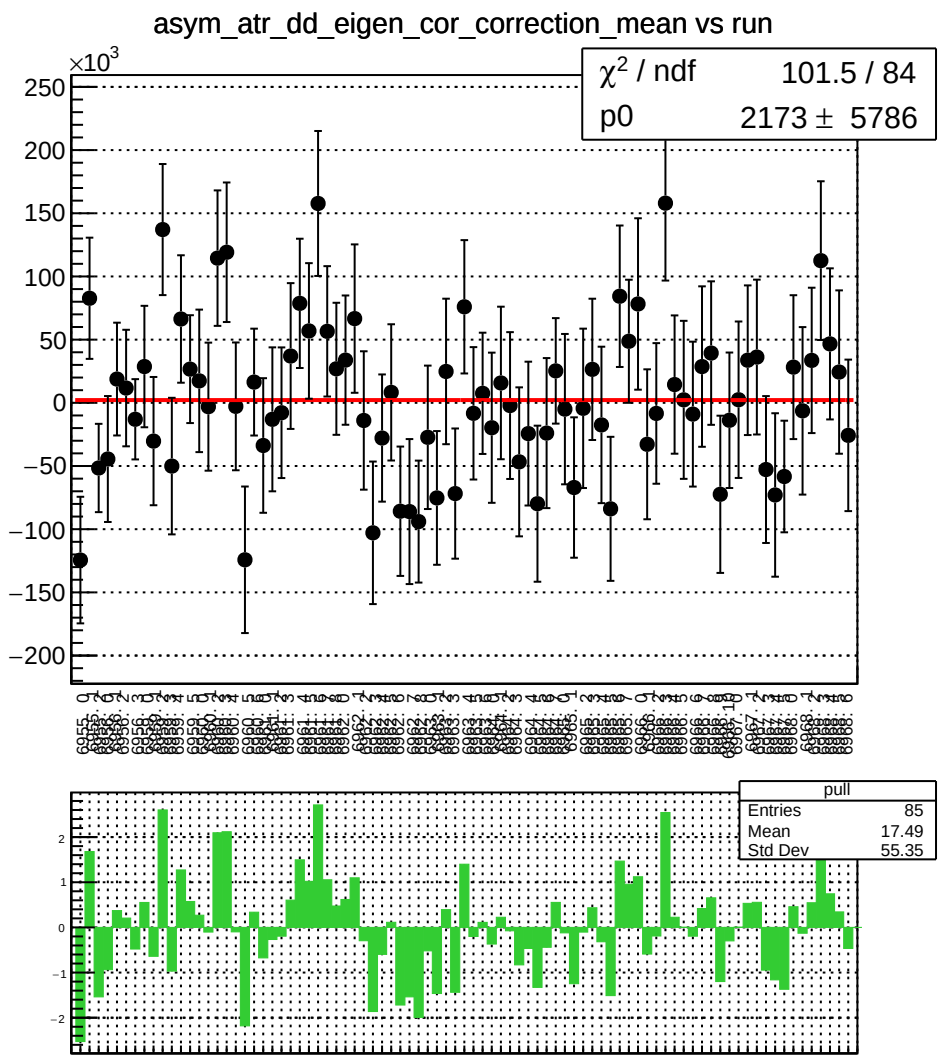

pull1D
Entries 85
Mean 0.01349
Std Dev 1.093

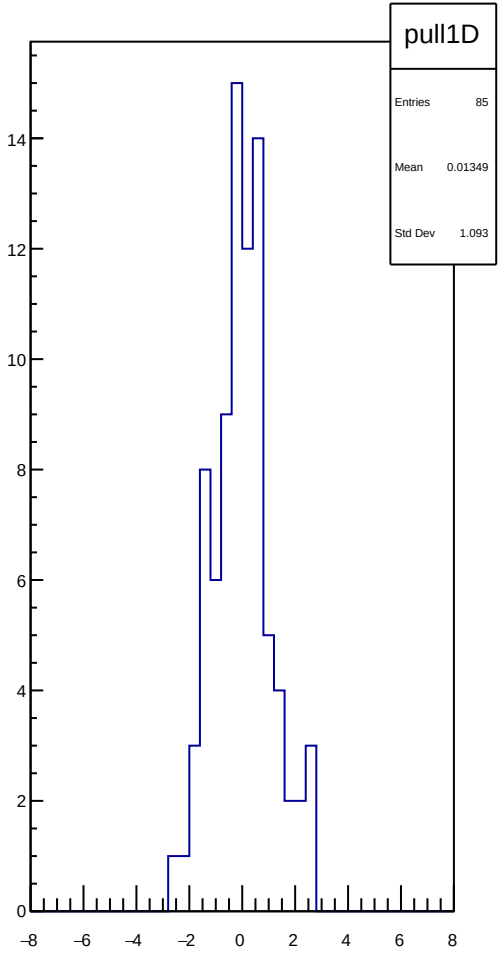

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.443e+04 / 84
p0 5220 ± 4.091
6500
6000
5500
5000
4500
4000

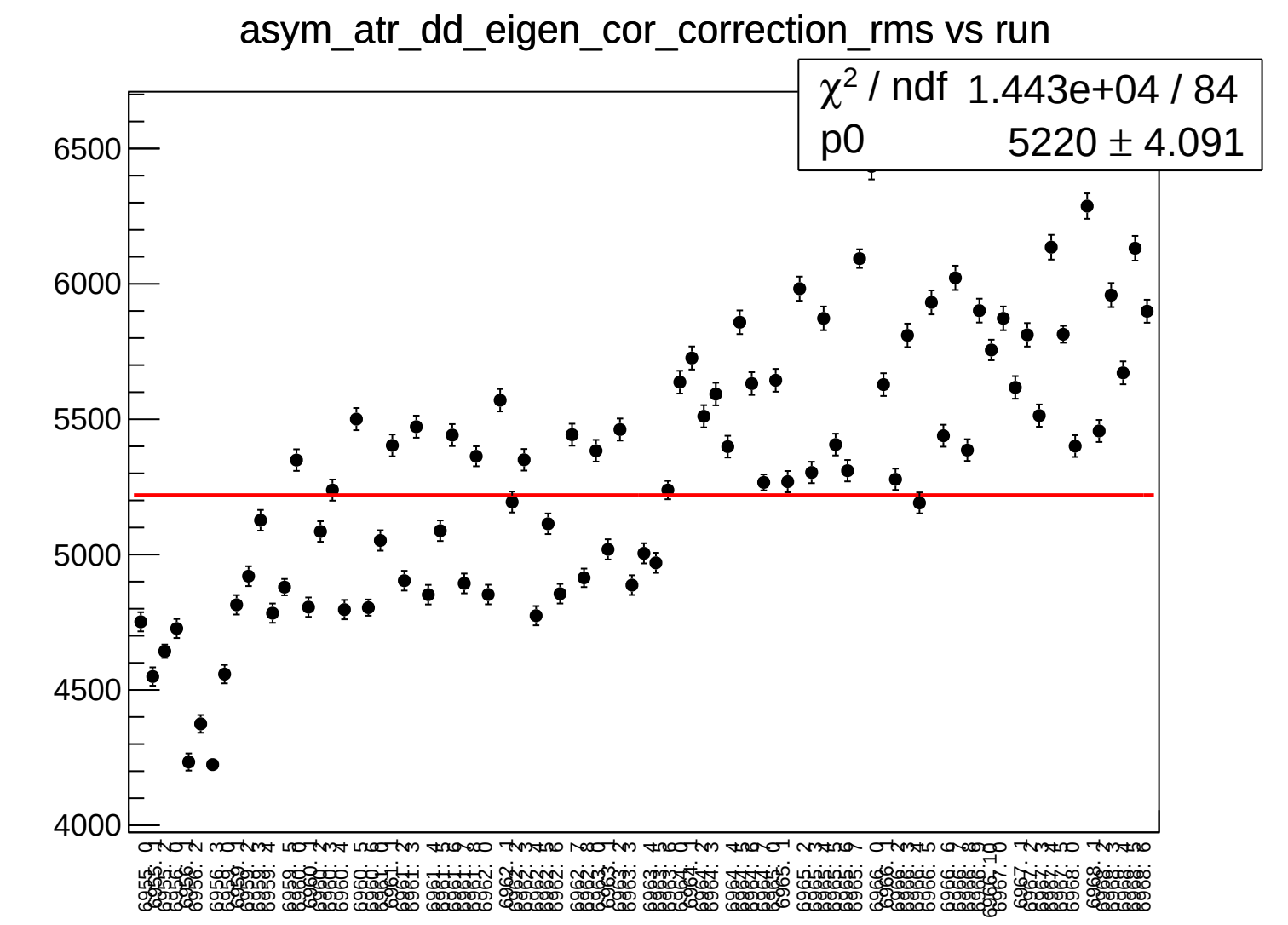

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 88.17 / 84
p0 1075 ± 1990
pull
Entries 85
Mean −134.6
Std Dev 0

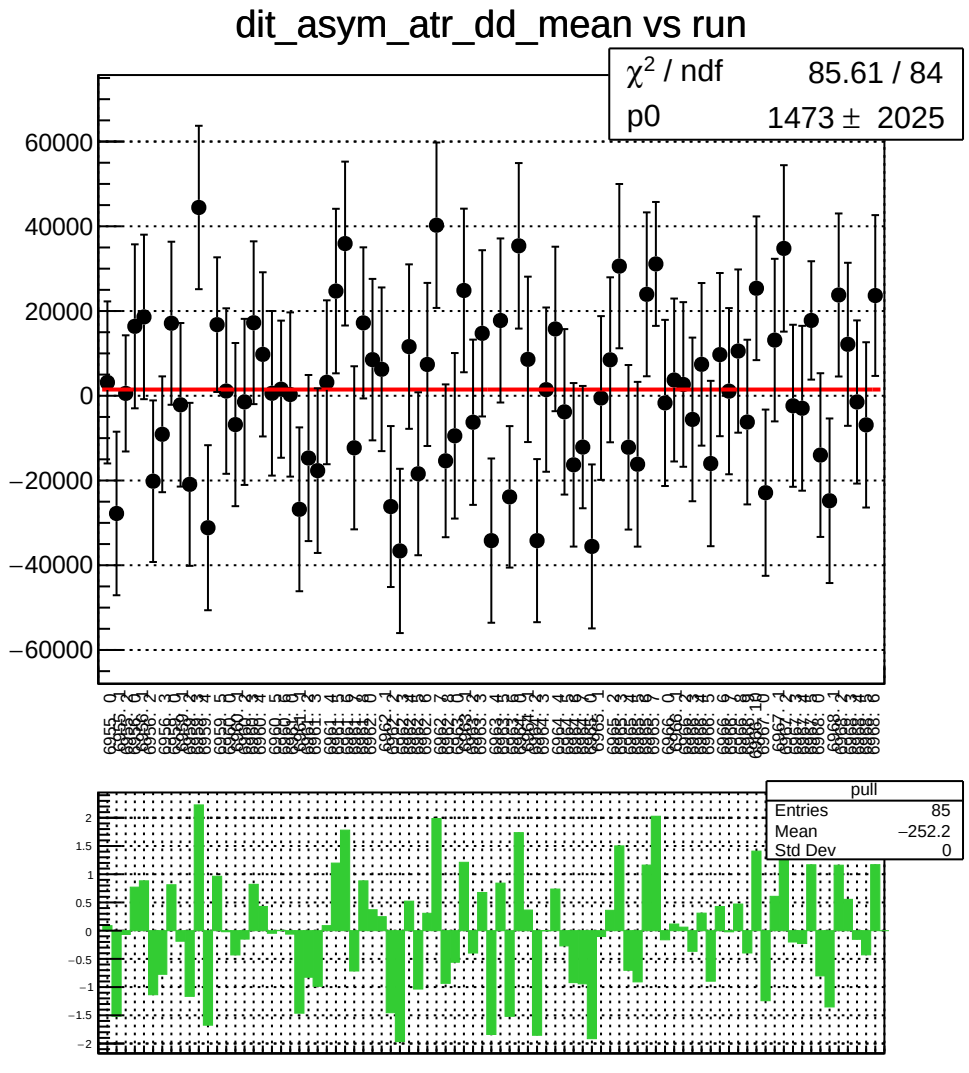

pull1D
Entries 85
Mean −0.01034
Std Dev 1.018

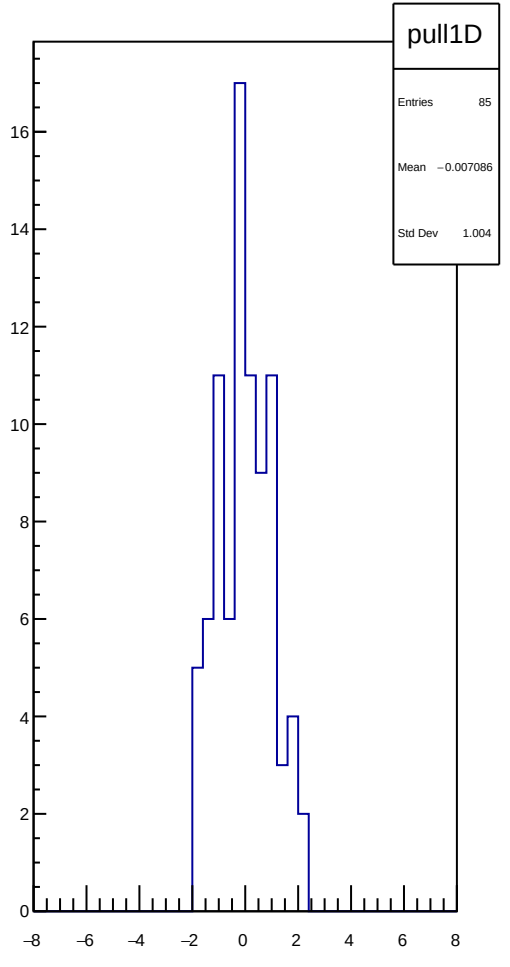

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 72.65 / 84
p0 1803 ± 1.407
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

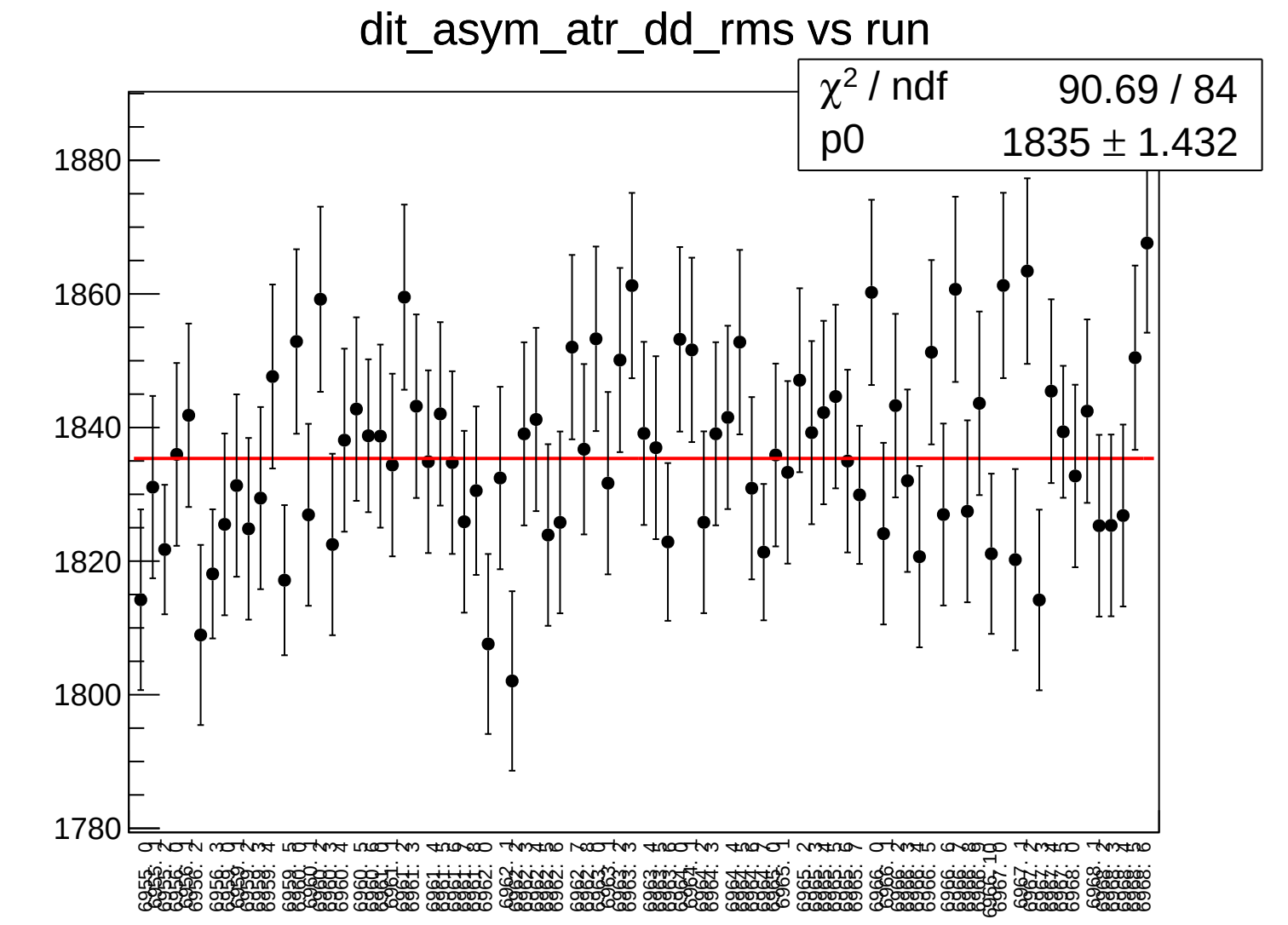

asym_atr_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.5 / 84
p0 2173 ± 5786
pull
Entries 85
Mean 17.49
Std Dev 55.35

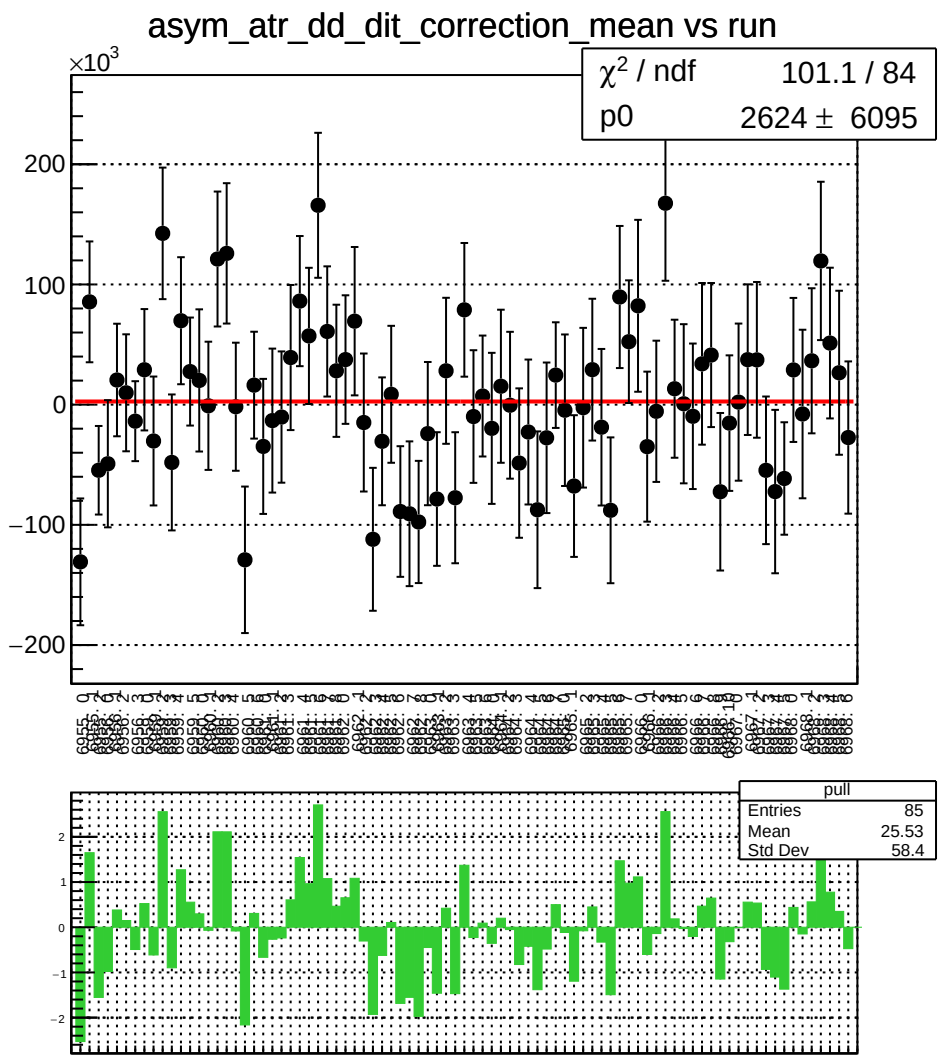

pull1D
Entries 85
Mean 0.01349
Std Dev 1.093

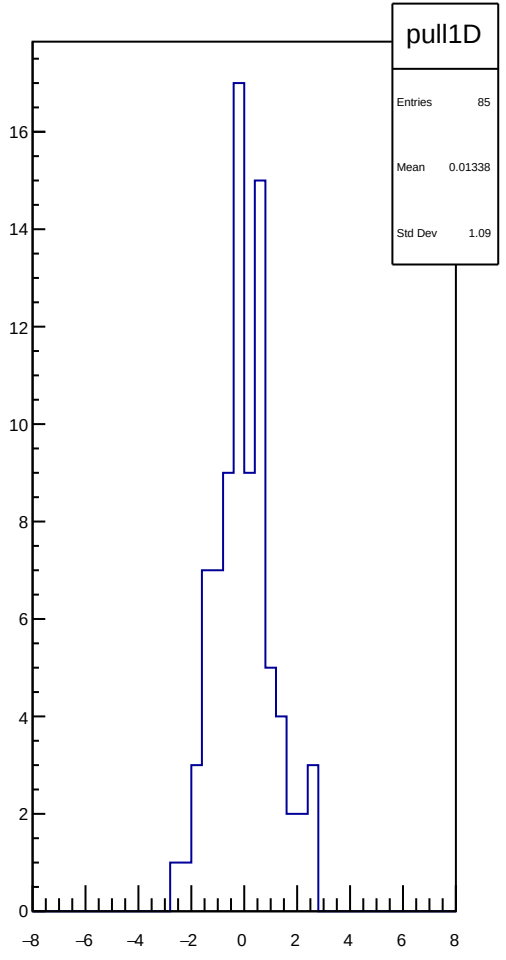

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.443e+04 / 84
p0 5220 ± 4.091
6500
6000
5500
5000
4500
4000

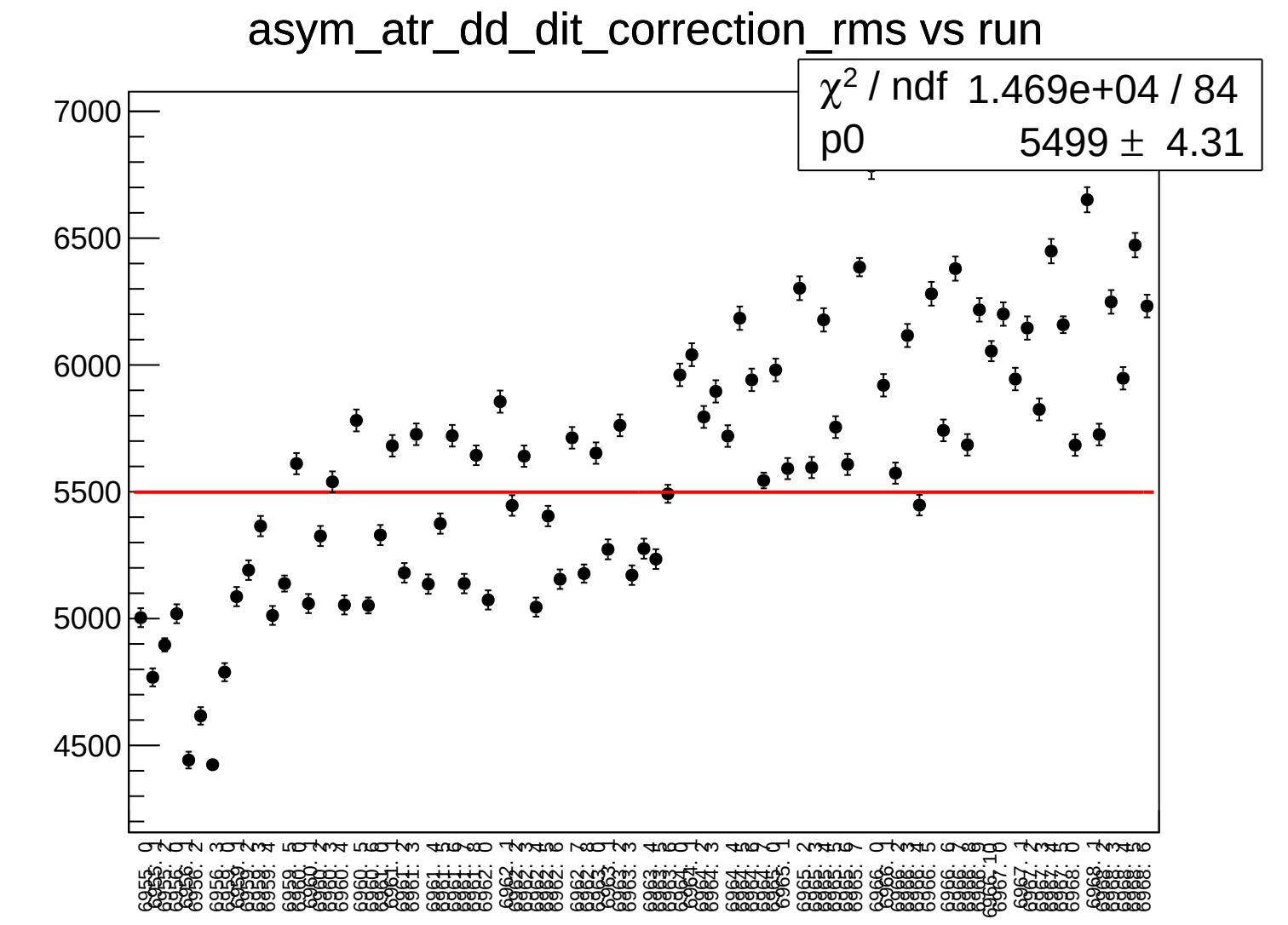

dit_asym_atr_dd_mean vs run
χ² / ndf 85.61 / 84
p0 1473 ± 2025
pull
Entries 85
Mean −252.2
Std Dev 0

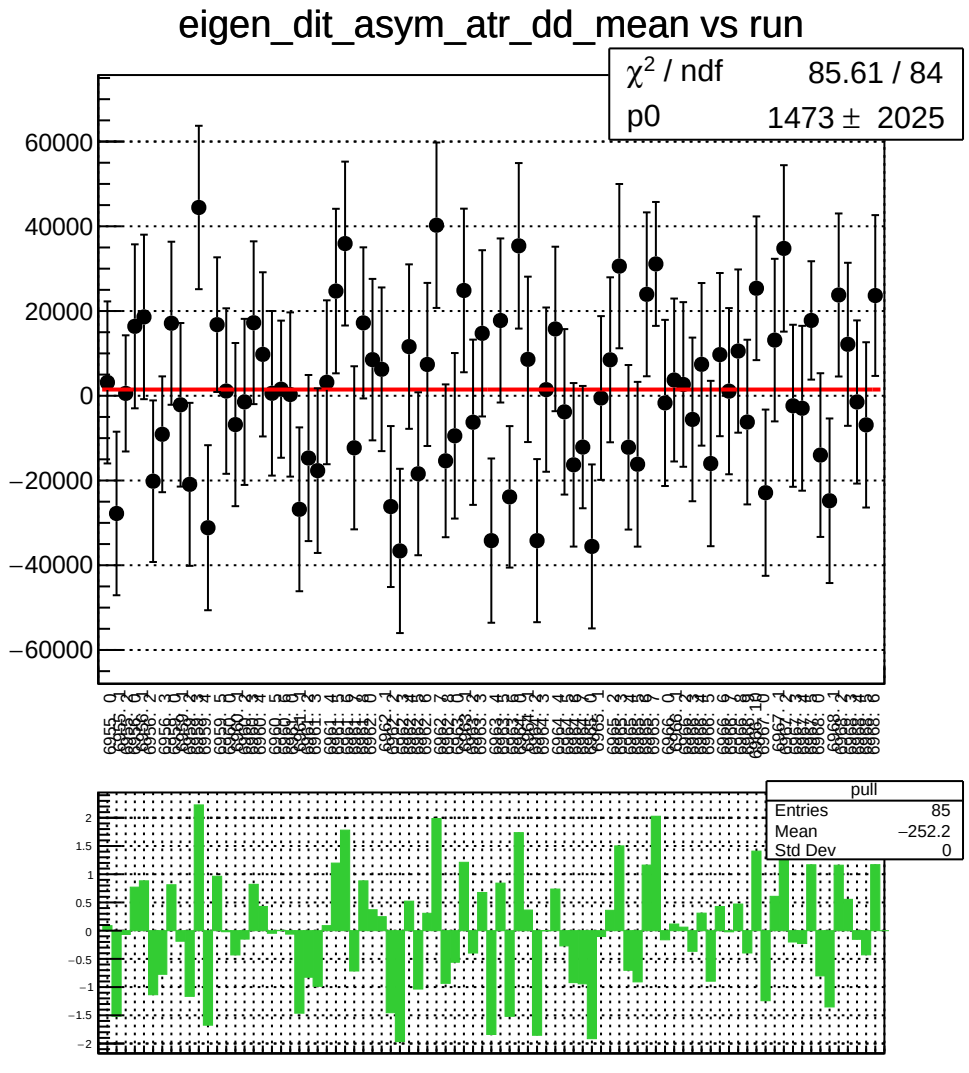

pull1D
Entries 85
Mean −0.007086
Std Dev 1.004

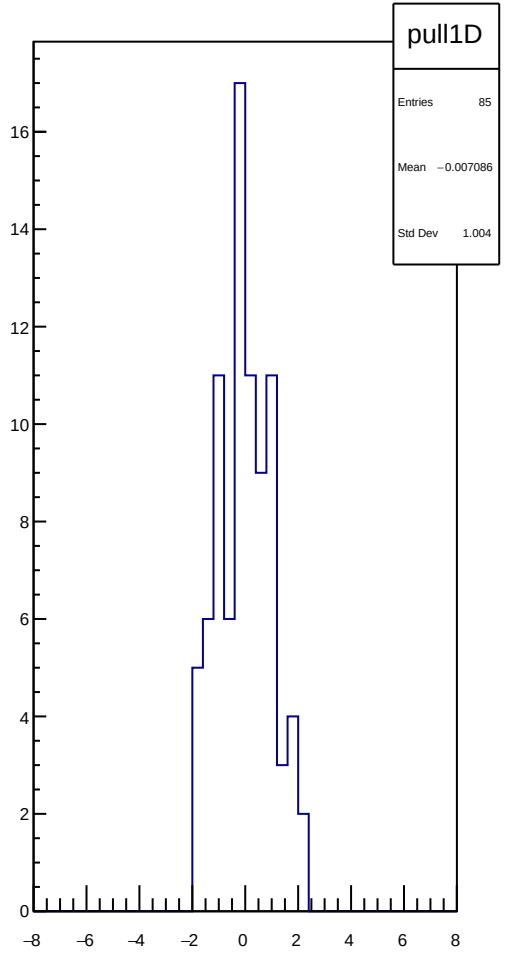

dit_asym_atr_dd_rms vs run
χ² / ndf 90.69 / 84
p0 1835 ± 1.432
1880
1860
1840
1820
1800
1780

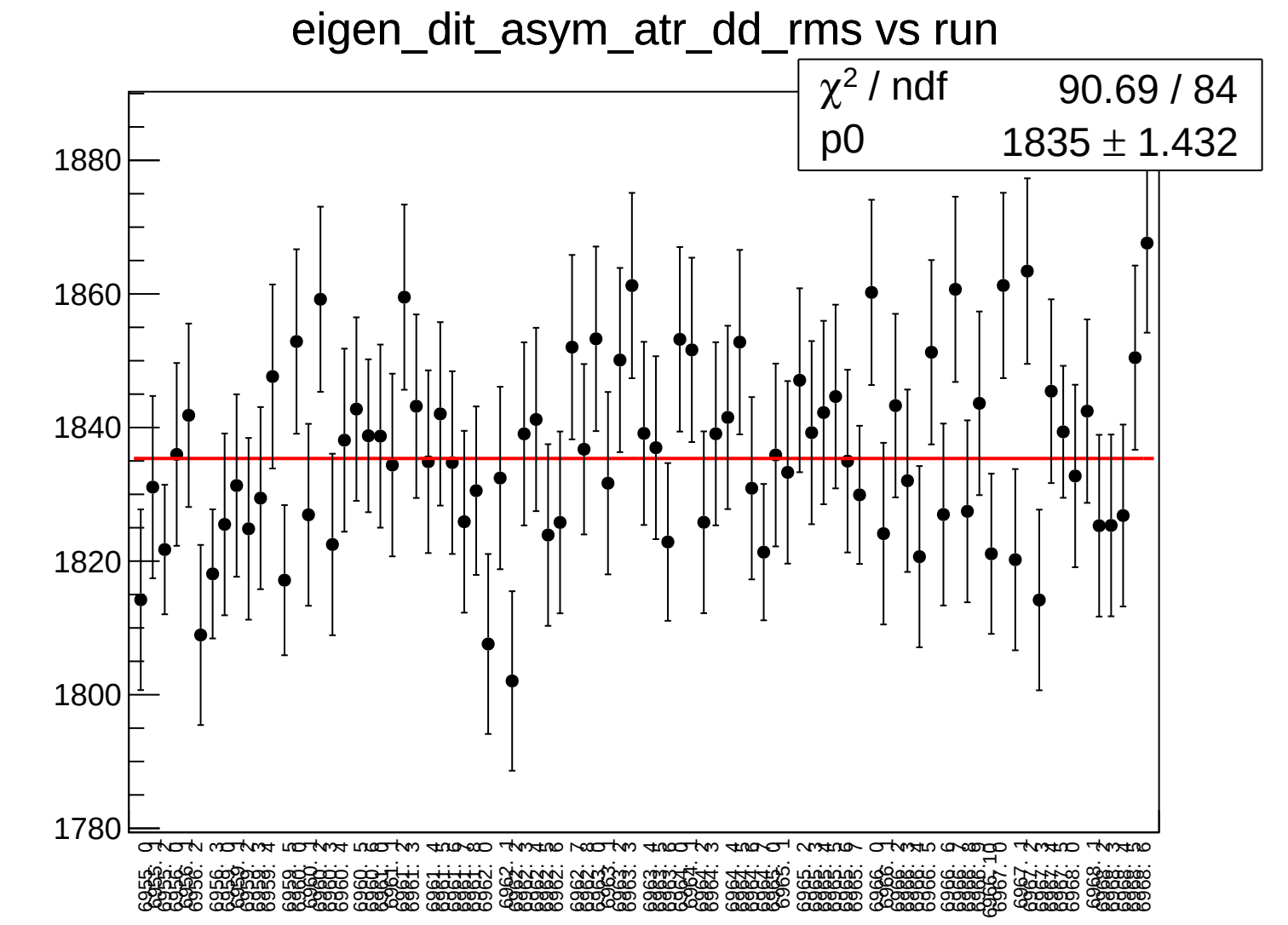

asym_atr_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 101.1 / 84
p0 2624 ± 6095
200
100
0
−100
−200
pull
Entries 85
Mean 25.53
Std Dev 58.4
2
1
0
−1
−2

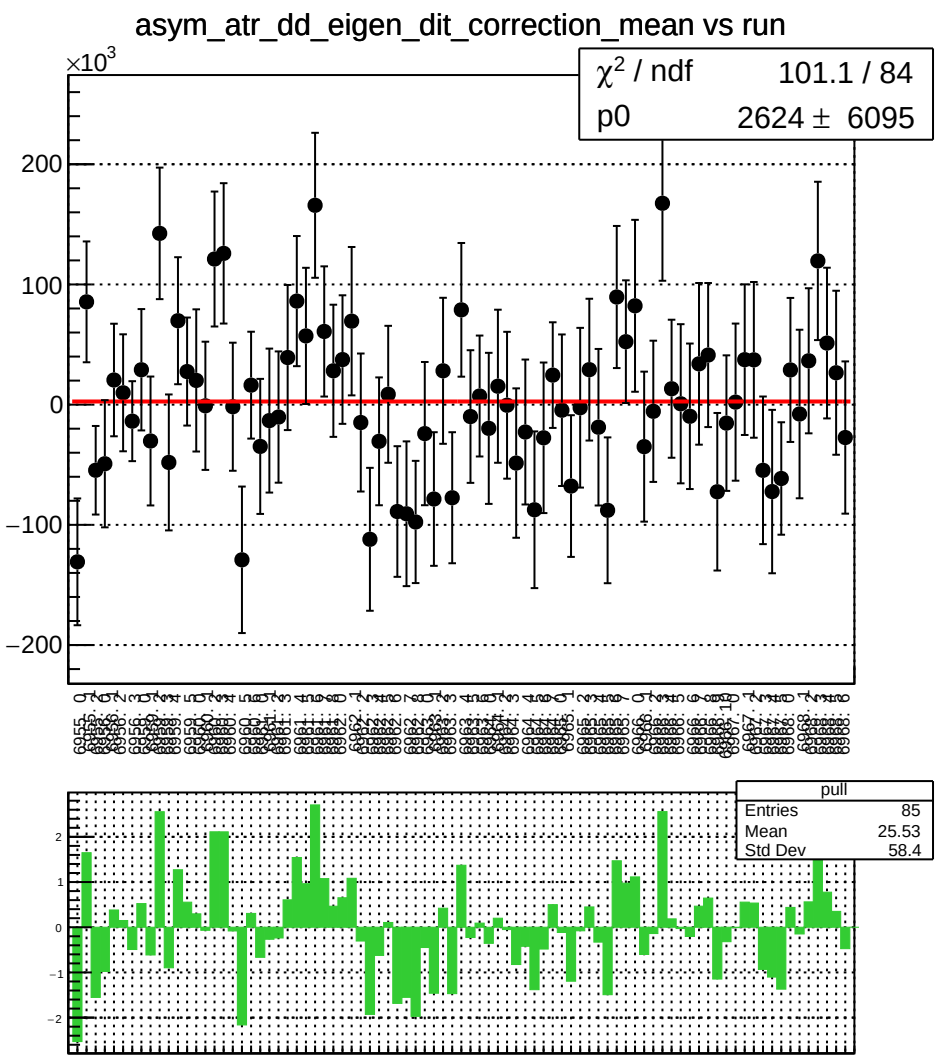

pull1D
Entries 85
Mean 0.01338
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

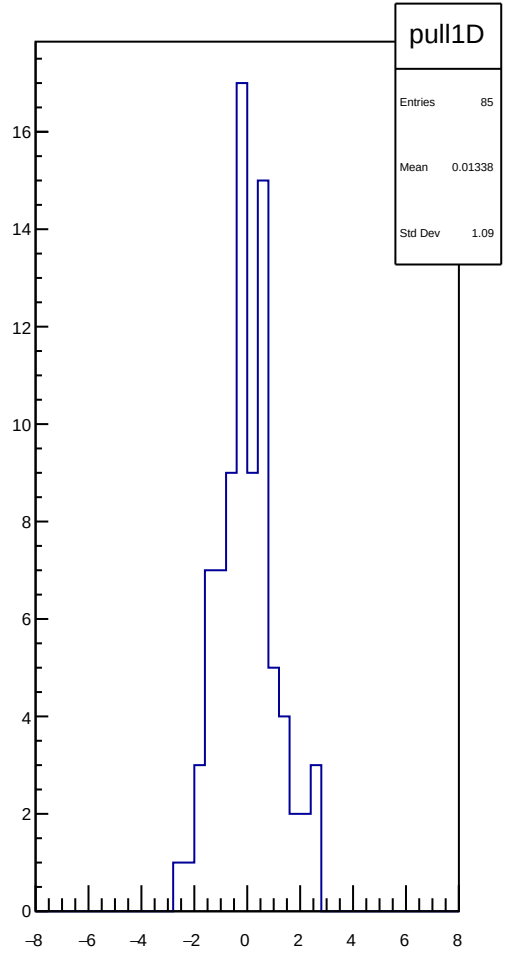

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 1.469e+04 / 84
p0 5499 ± 4.31
7000
6500
6000
5500
5000
4500

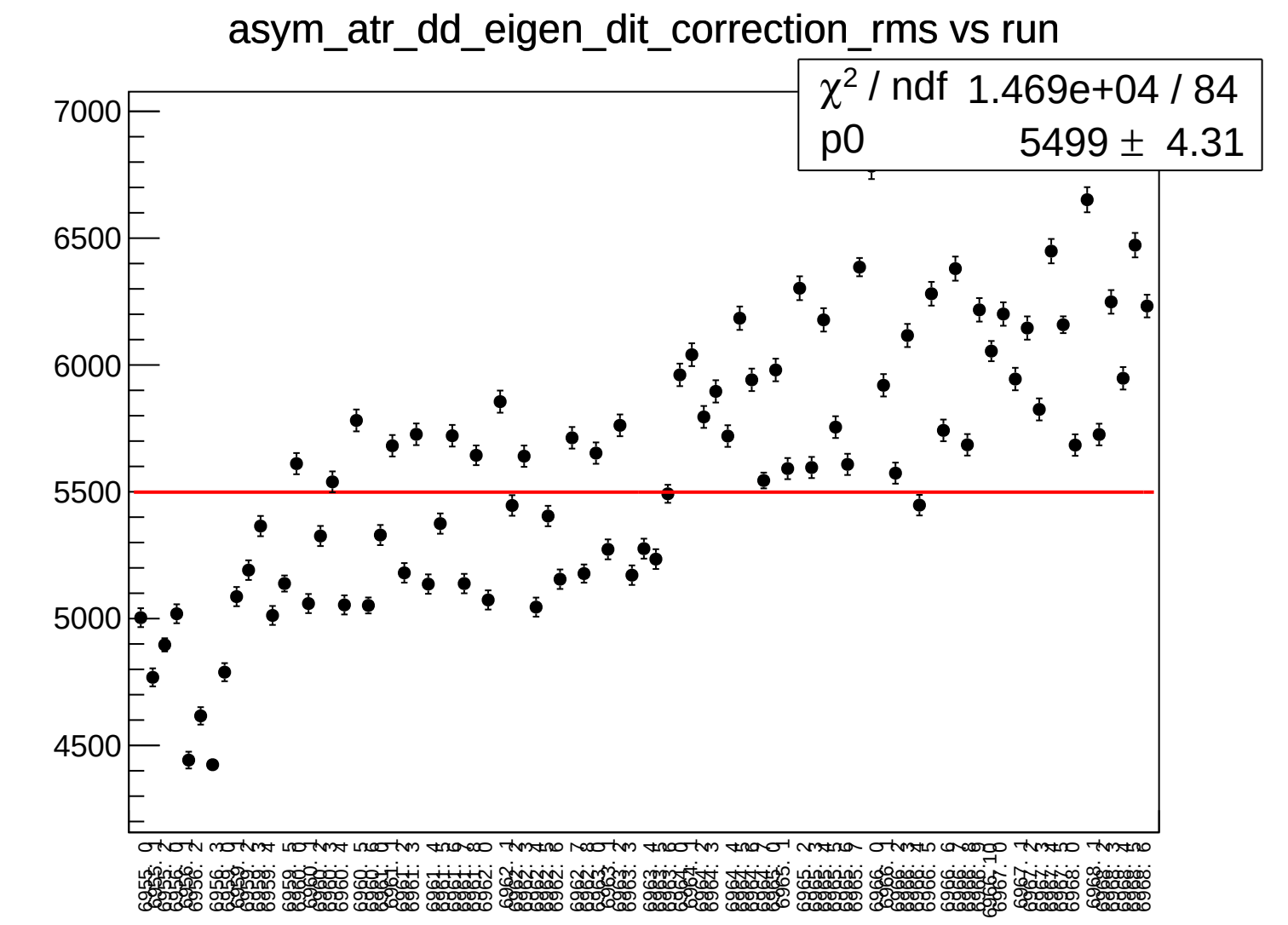

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 85.61 / 84
p0 1473 ± 2025
pull
Entries 85
Mean −252.2
Std Dev 0

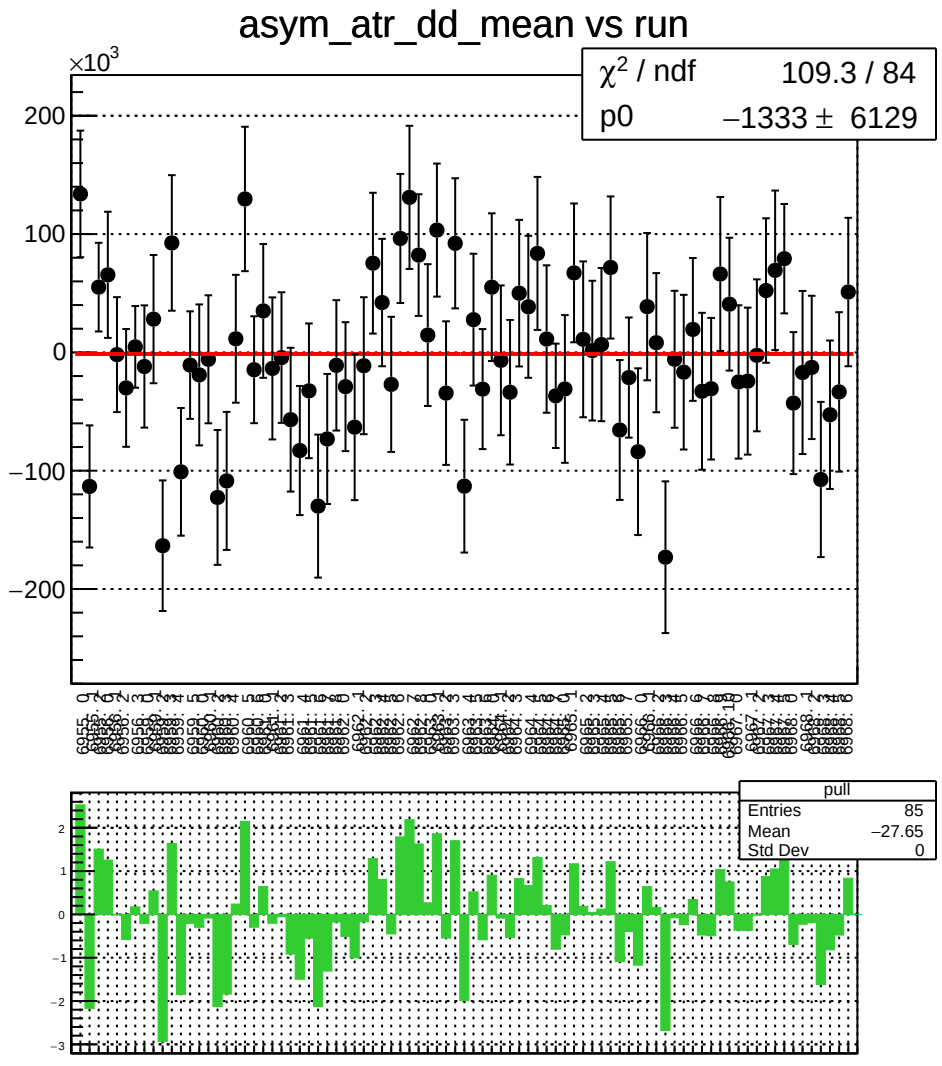

pull1D
Entries 85
Mean −0.007086
Std Dev 1.004

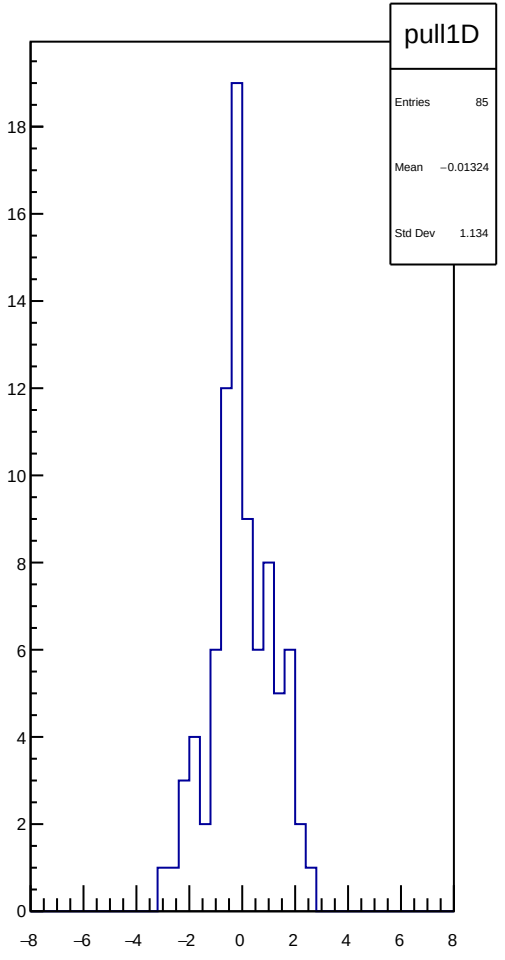

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 90.69 / 84
p0 1835 ± 1.432
1880
1860
1840
1820
1800
1780

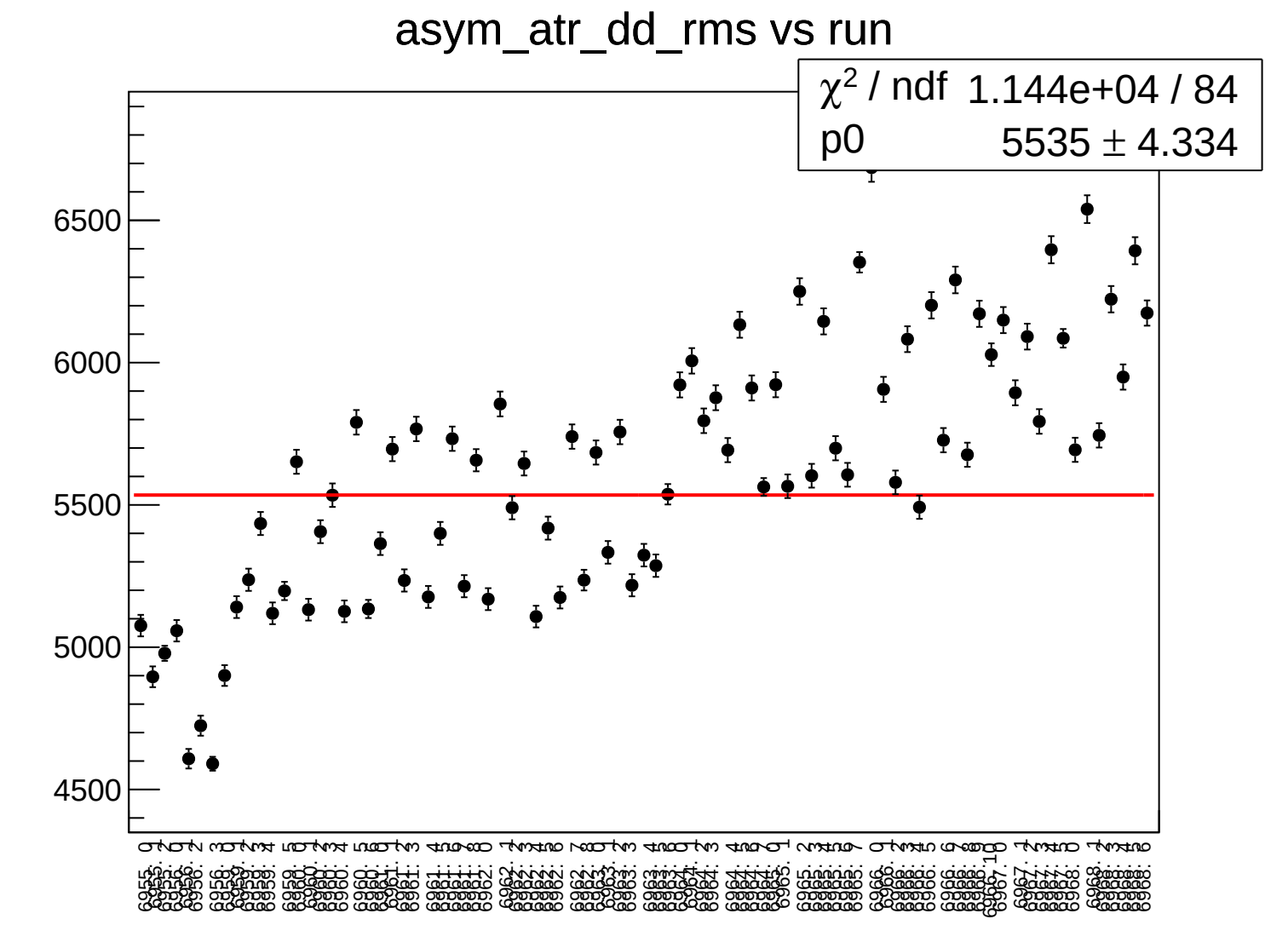

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 101.1 / 84
p0 2624 ± 6095
200
100
0
−100
−200
pull
Entries 85
Mean 25.53
Std Dev 58.4
2
1
0
−1
−2

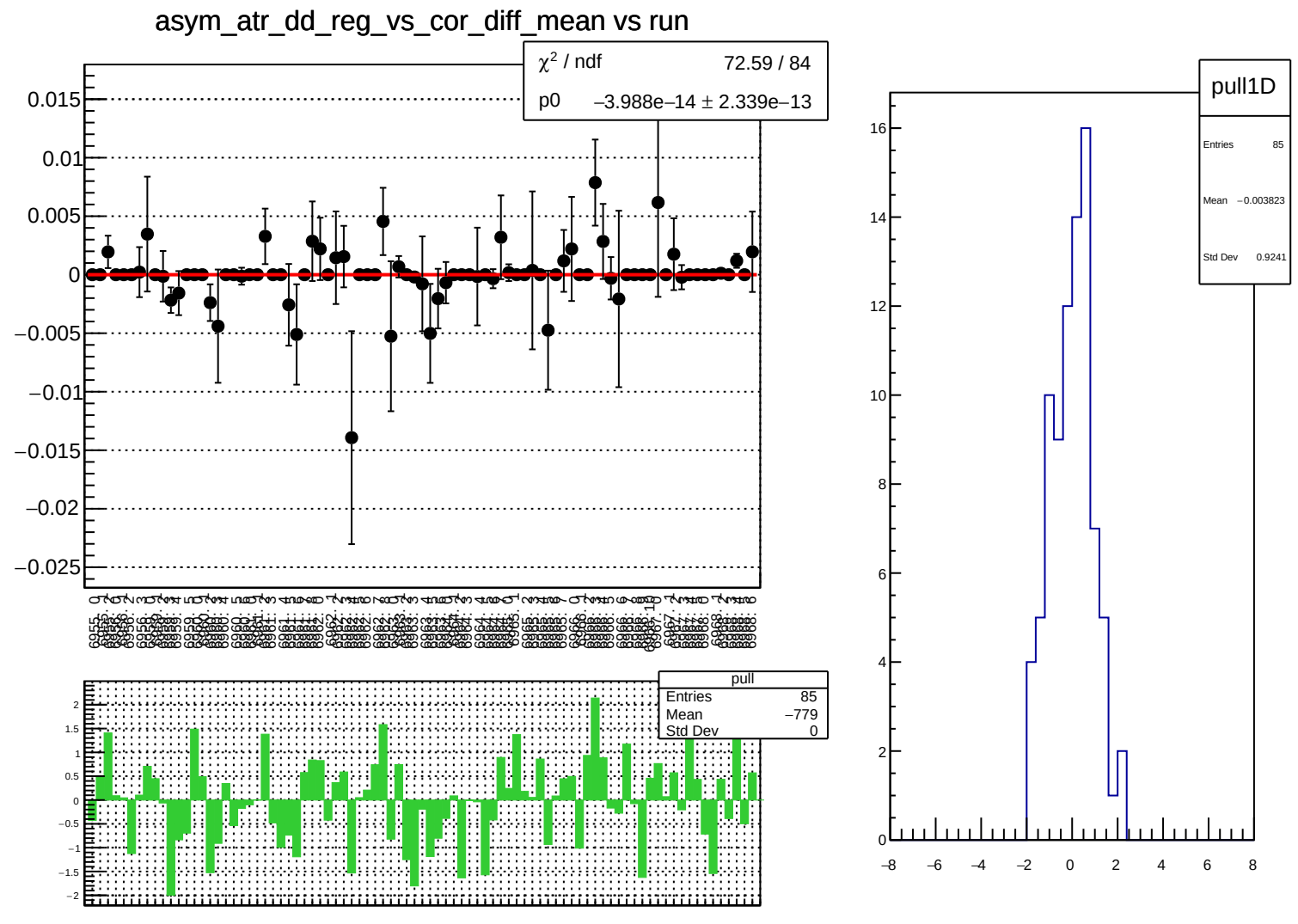

pull1D
Entries 85
Mean 0.01338
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

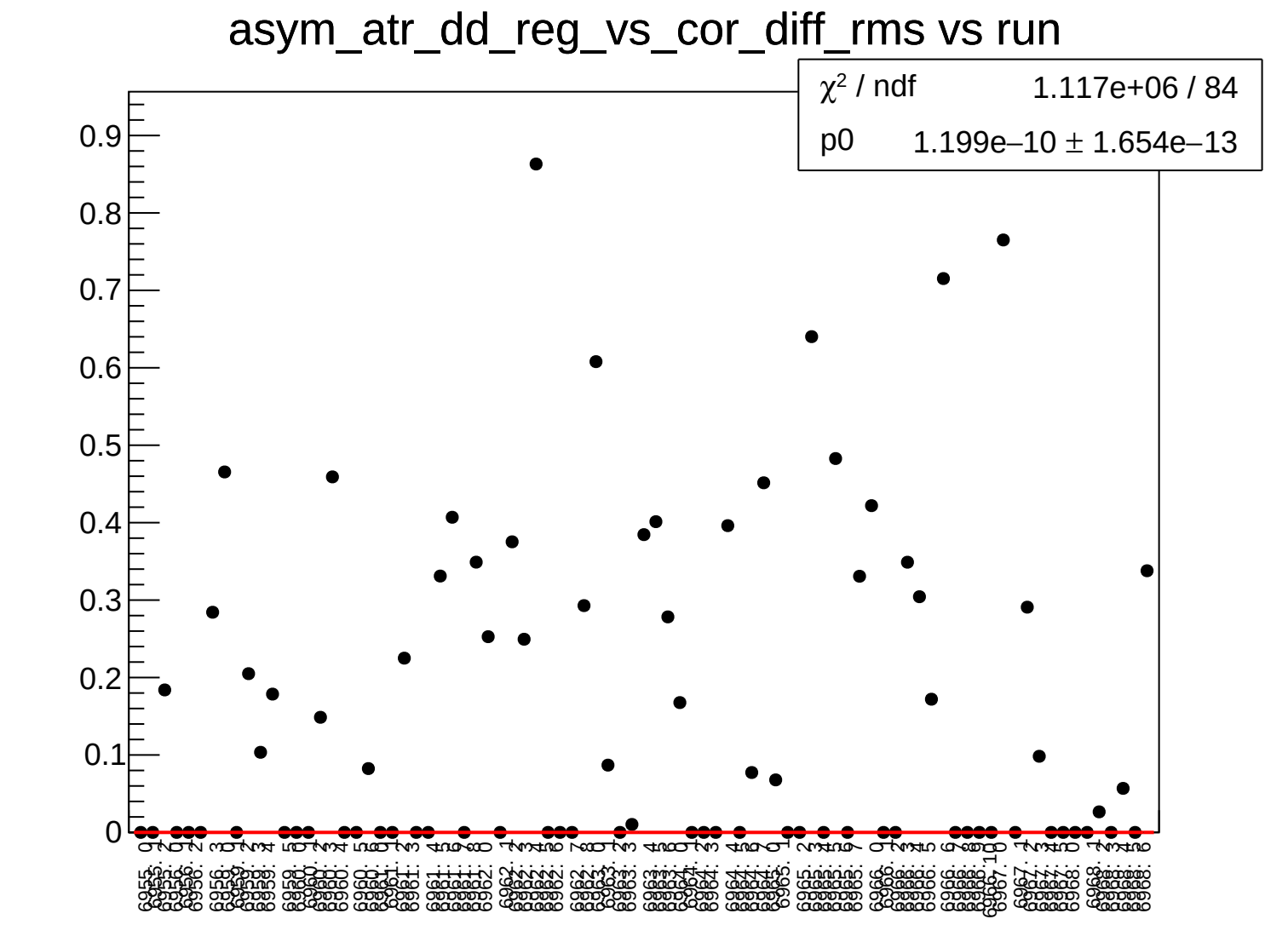

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.469e+04 / 84
p0 5499 ± 4.31
7000
6500
6000
5500
5000
4500

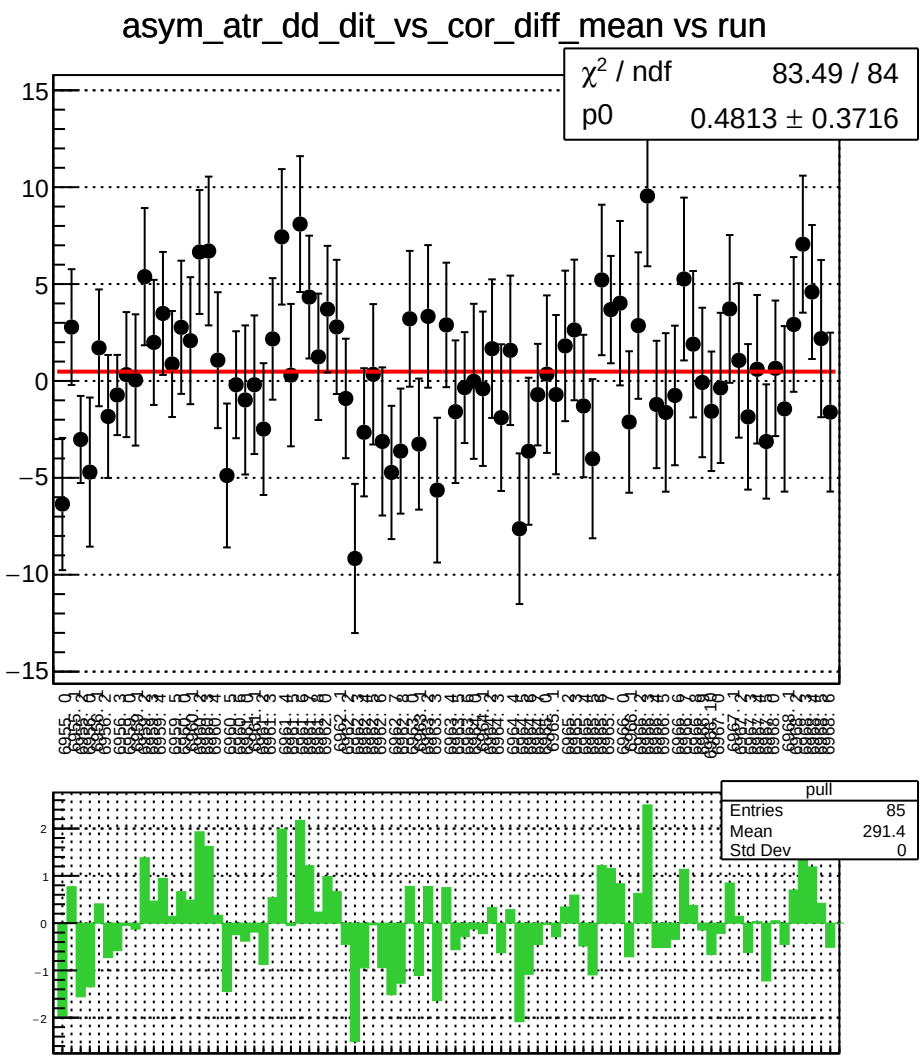

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 109.3 / 84
p0 −1333 ± 6129
200
100
0
−100
−200
pull
Entries 85
Mean −27.65
Std Dev 0
2
1
0
−1
−2
−3

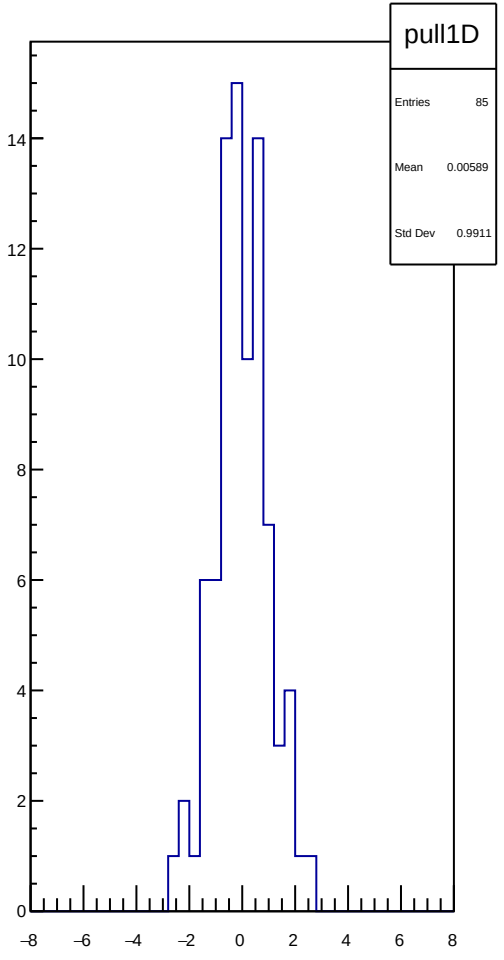

pull1D
Entries 85
Mean −0.01324
Std Dev 1.134
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

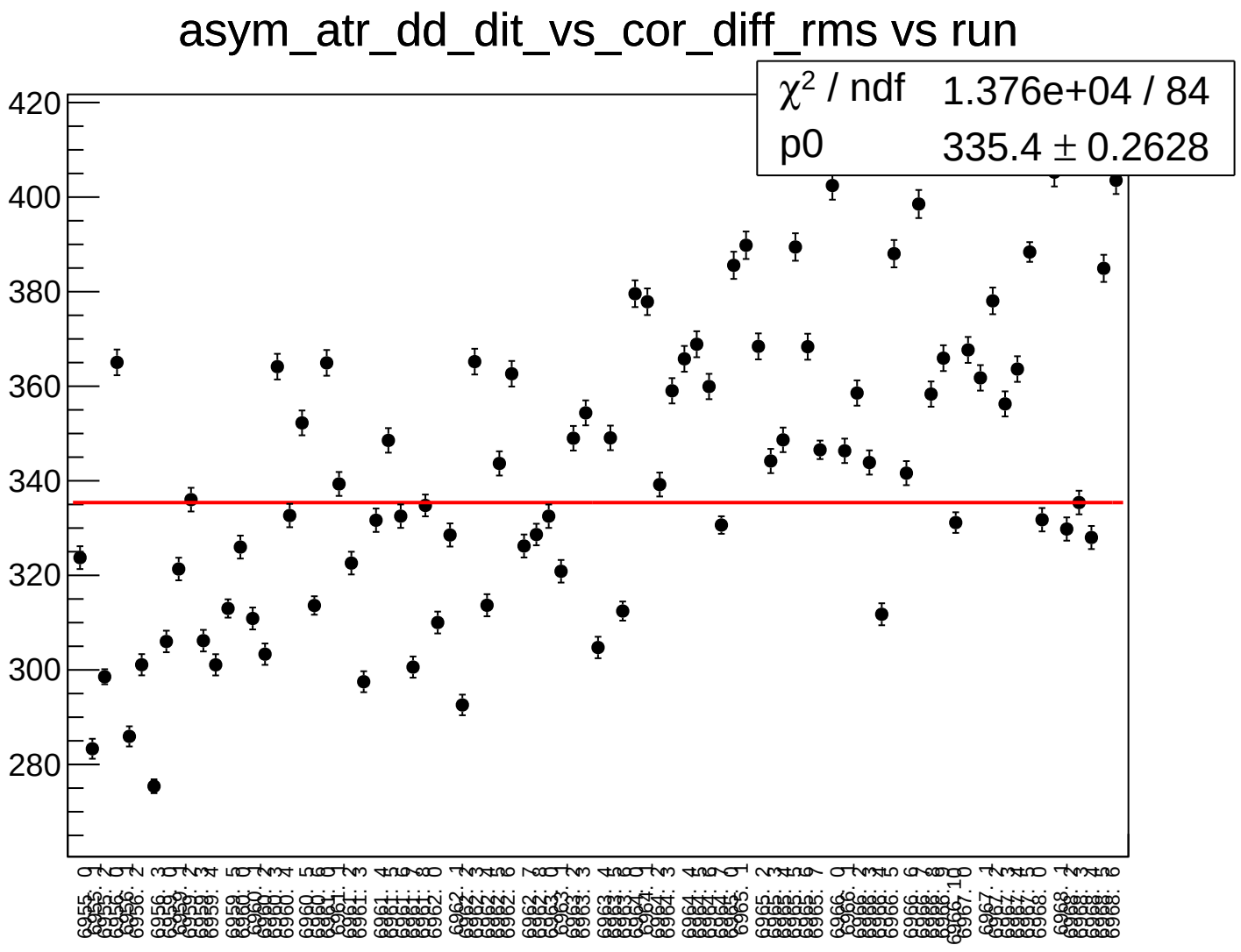

asym_atr_dd_rms vs run
χ² / ndf 1.144e+04 / 84
p0 5535 ± 4.334
6500
6000
5500
5000
4500

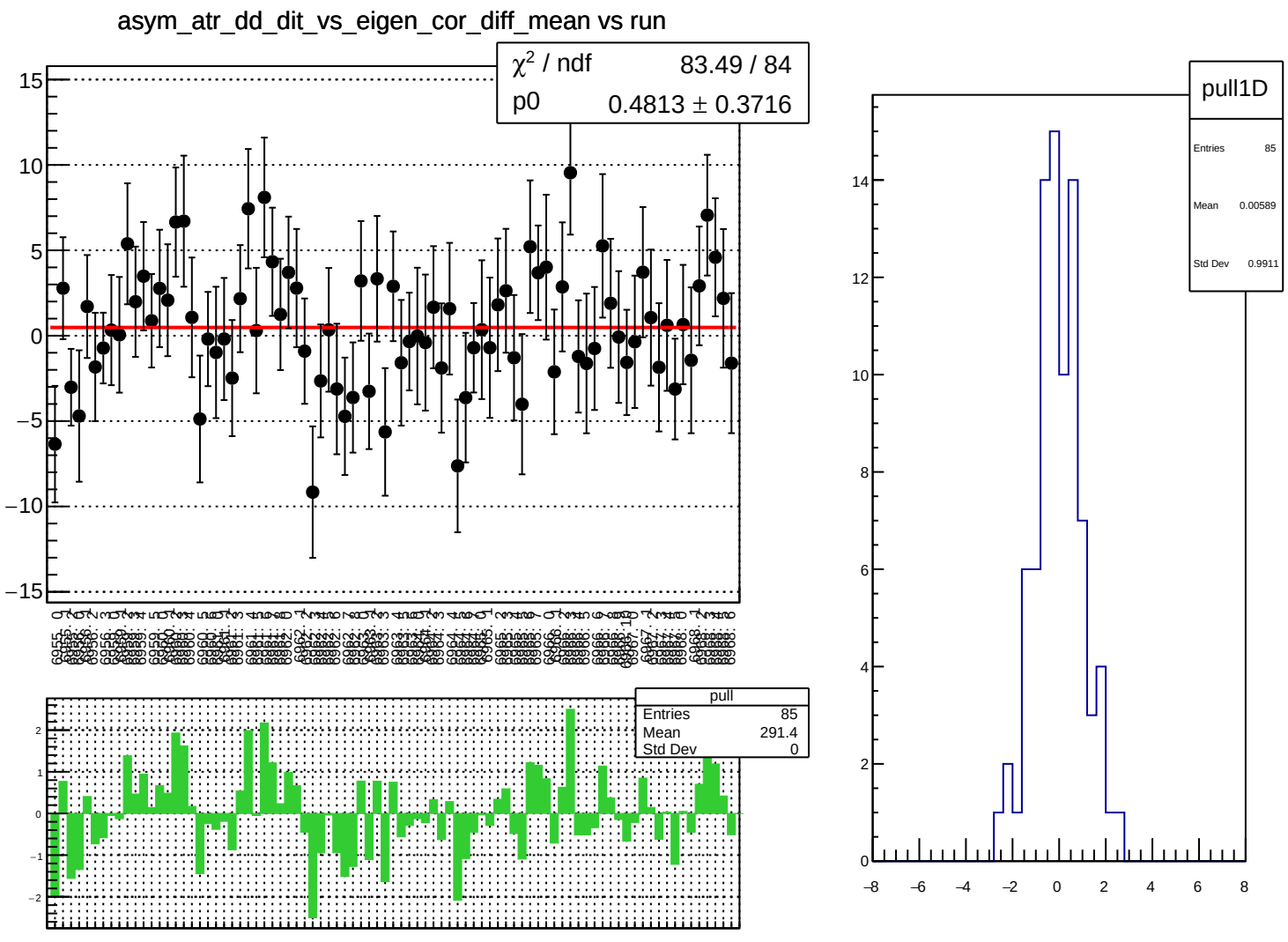

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.59 / 84
p0 −3.988e−14 ± 2.339e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 85
Mean −779
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.003823
Std Dev 0.9241
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

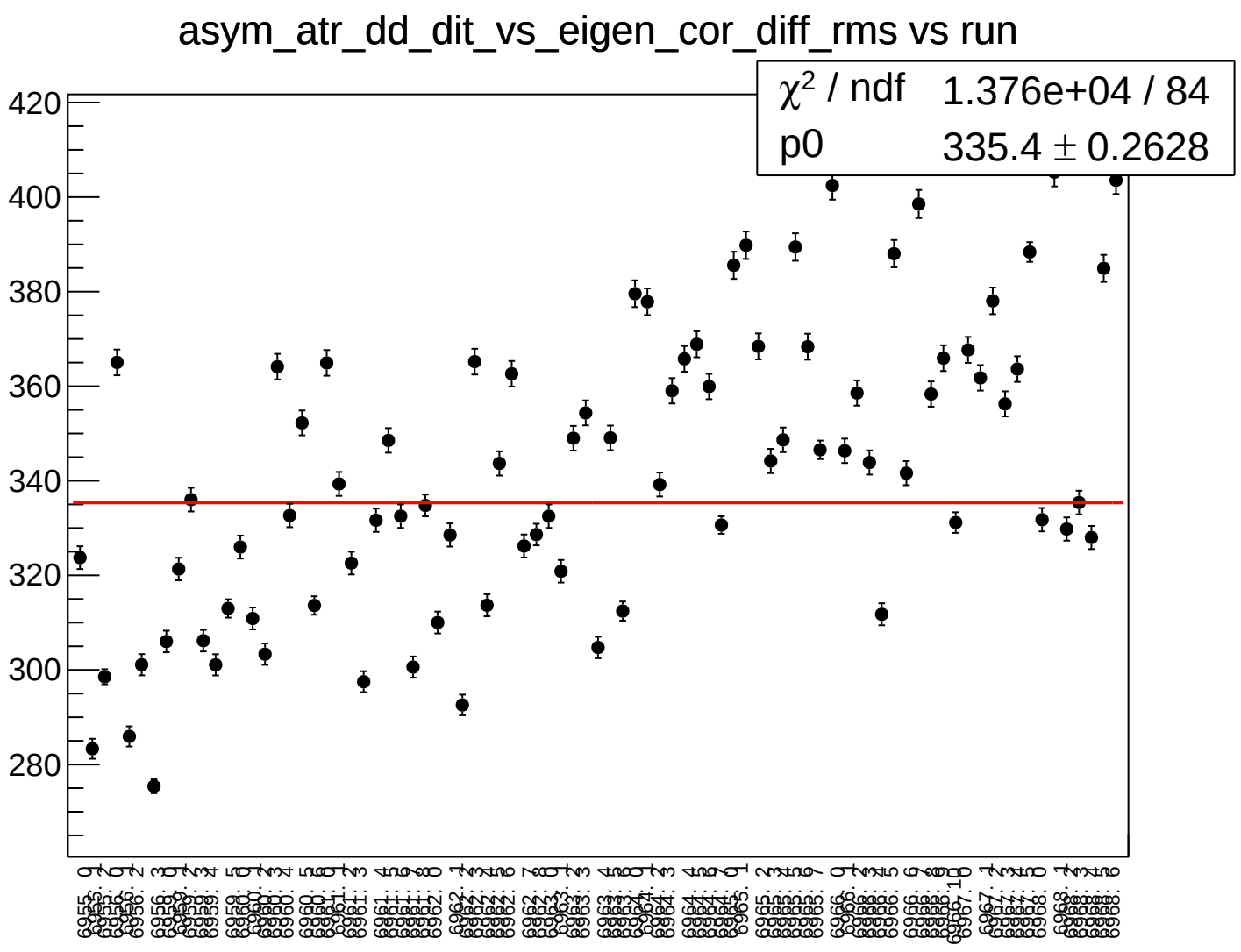

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.117e+06 / 84
p0 1.199e−10 ± 1.654e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

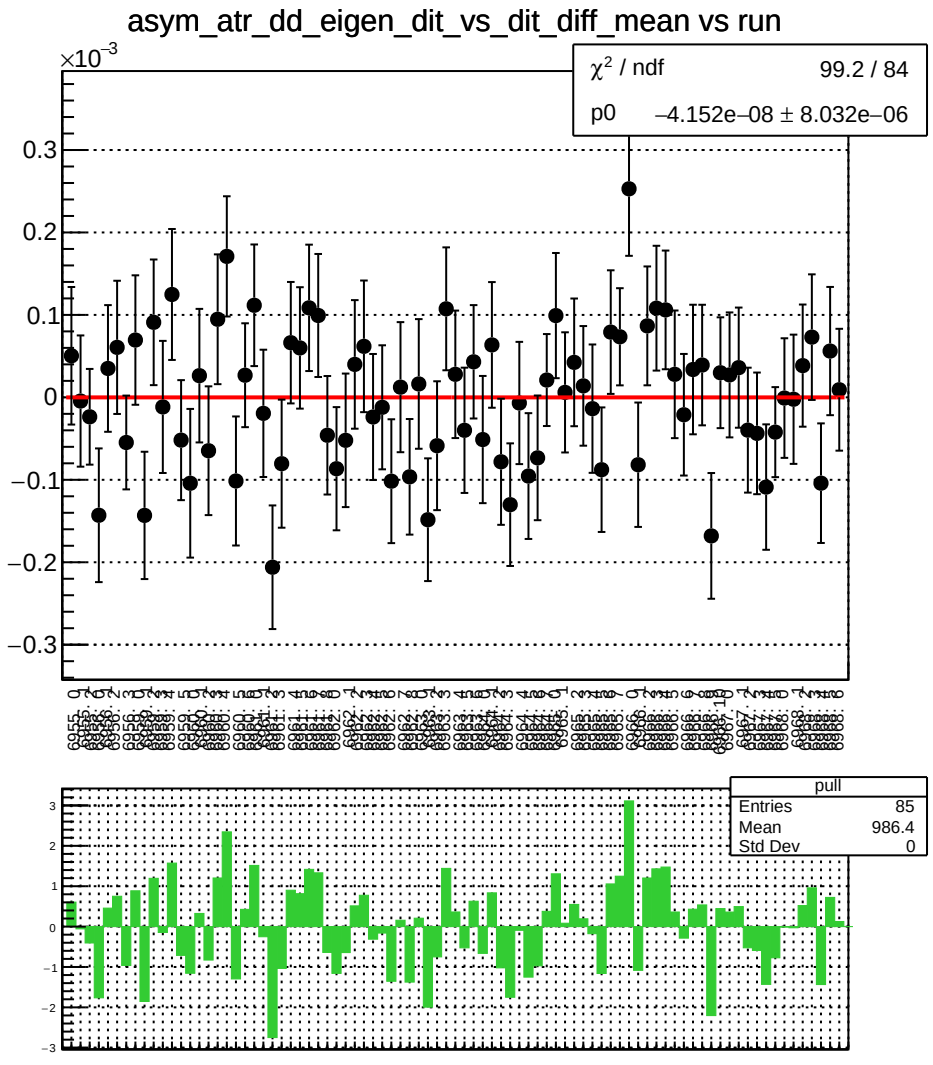

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.49 / 84
p0 0.4813 ± 0.3716
pull
Entries 85
Mean 291.4
Std Dev 0

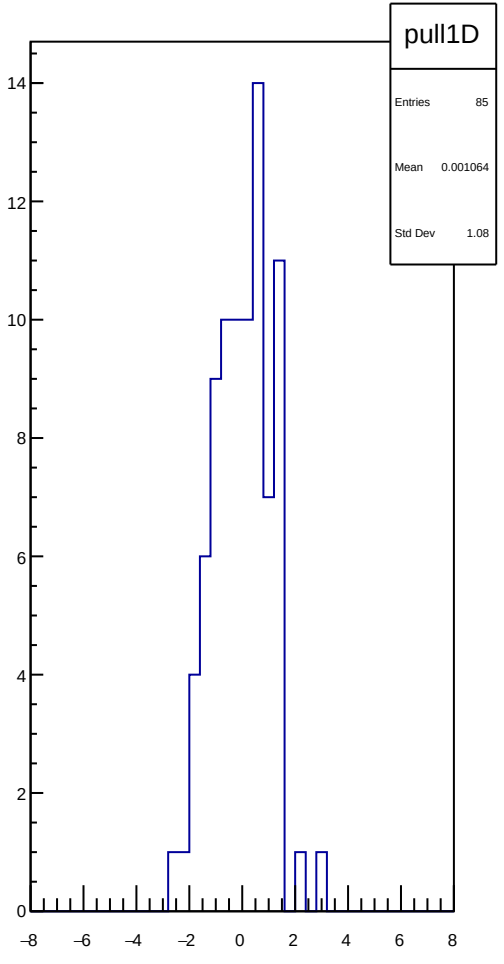

pull1D
Entries 85
Mean 0.00589
Std Dev 0.9911

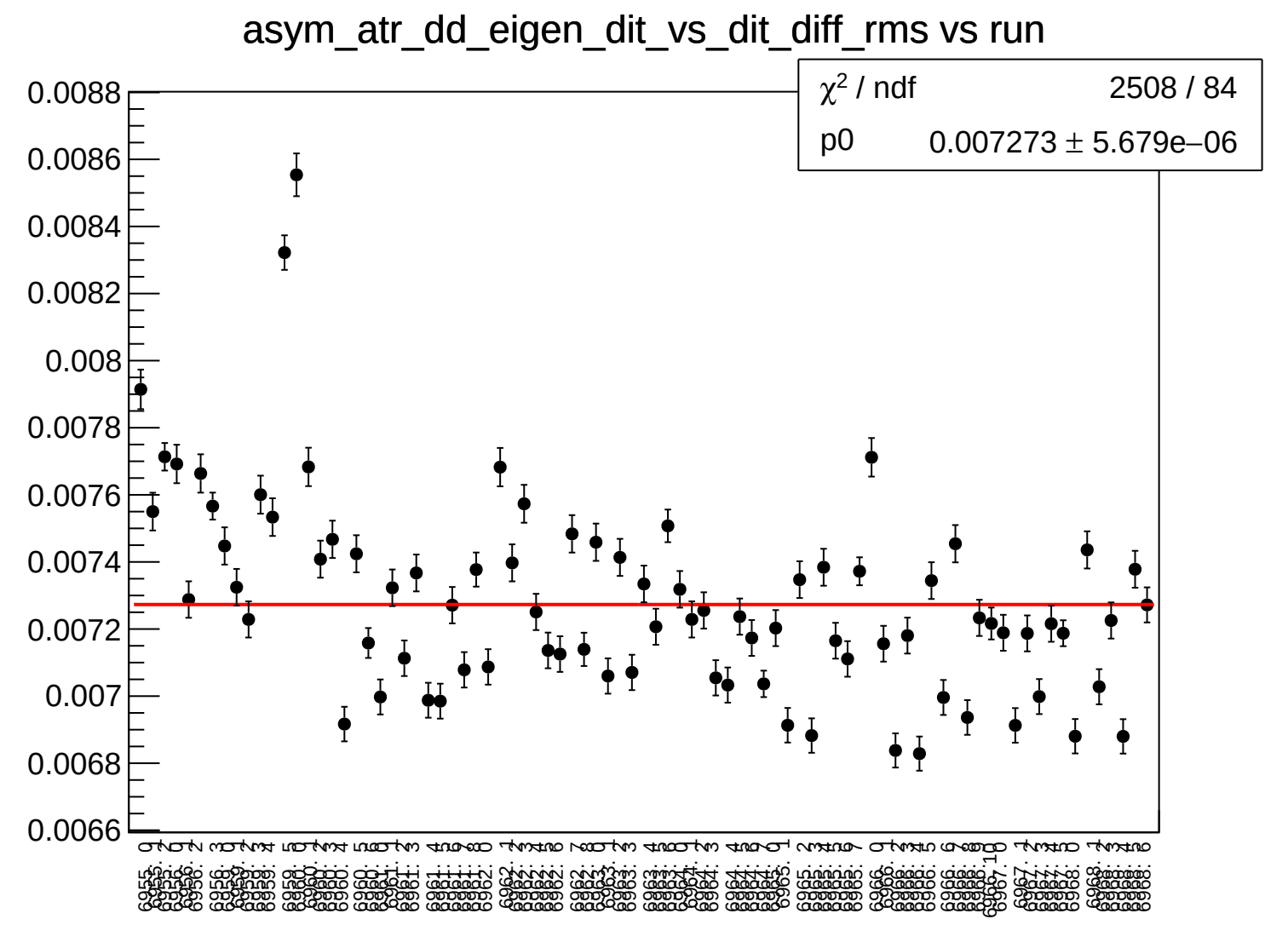

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.376e+04 / 84
p0 335.4 ± 0.2628
420
400
380
360
340
320
300
280

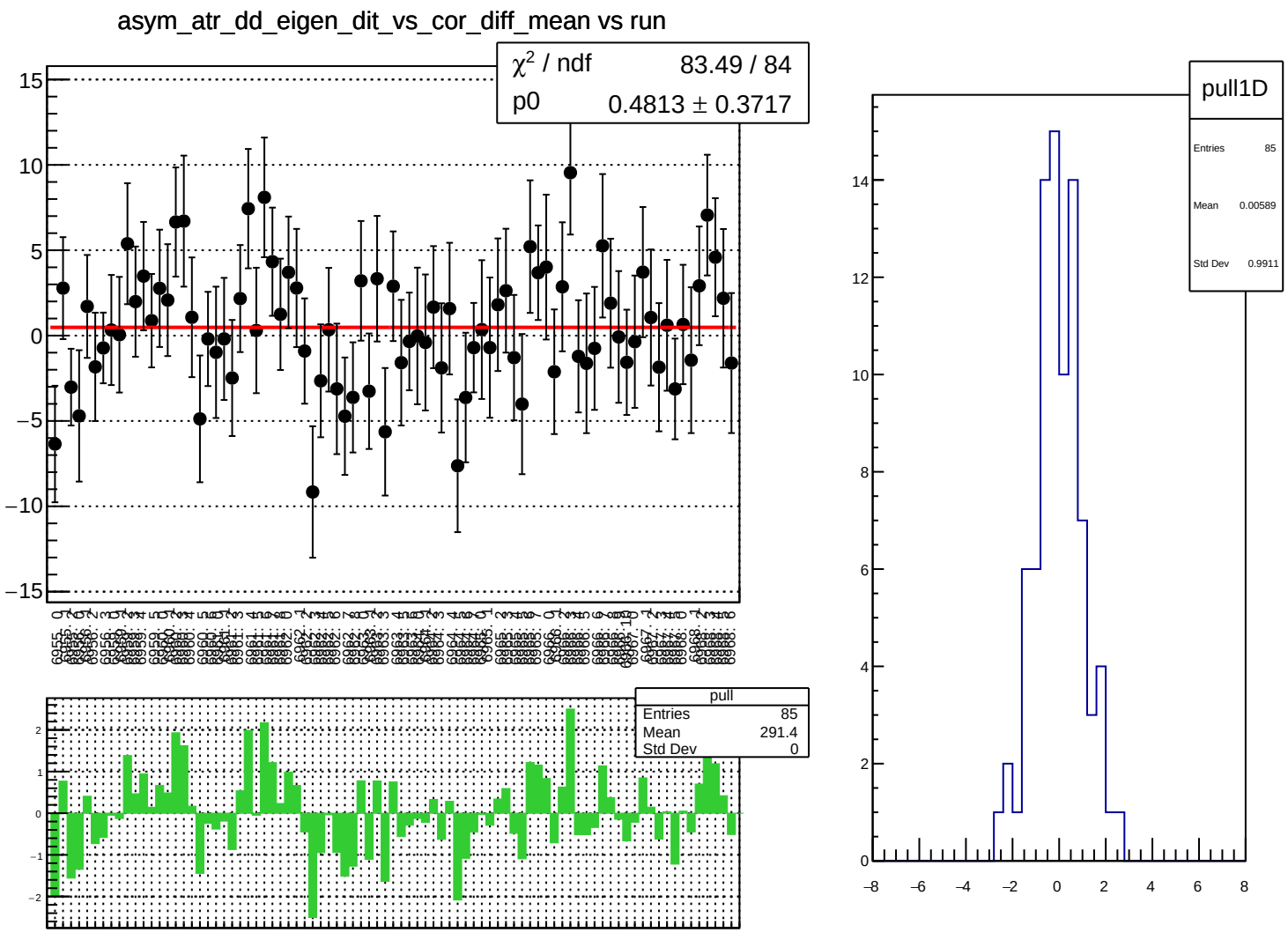

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.49 / 84
p0 0.4813 ± 0.3716
pull
Entries 85
Mean 291.4
Std Dev 0
pull1D
Entries 85
Mean 0.00589
Std Dev 0.9911

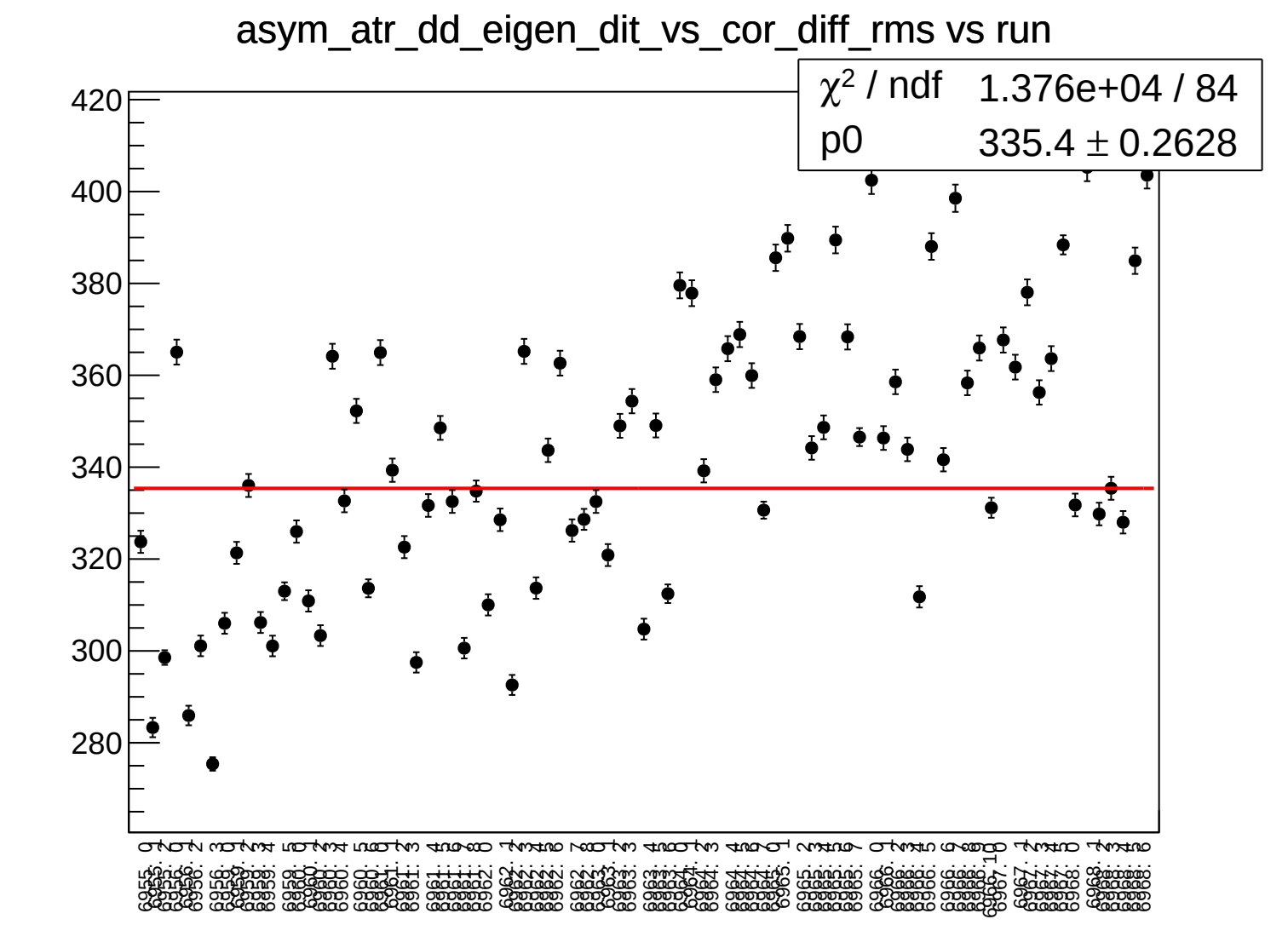

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.376e+04 / 84
p0 335.4 ± 0.2628
420
400
380
360
340
320
300
280

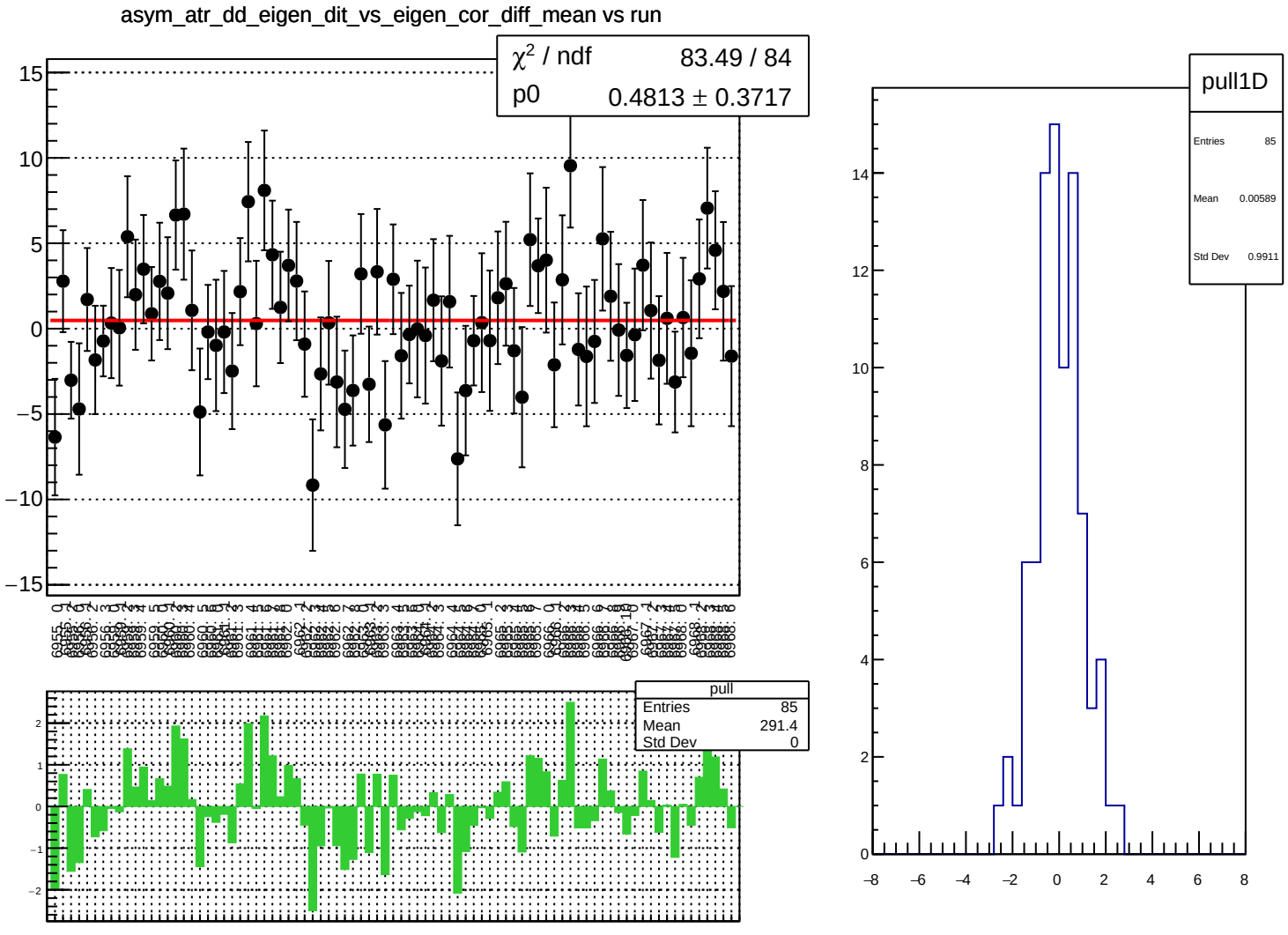

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.2 / 84
p0 −4.152e−08 ± 8.032e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 85
Mean 986.4
Std Dev 0
3
2
1
0
−1
−2
−3

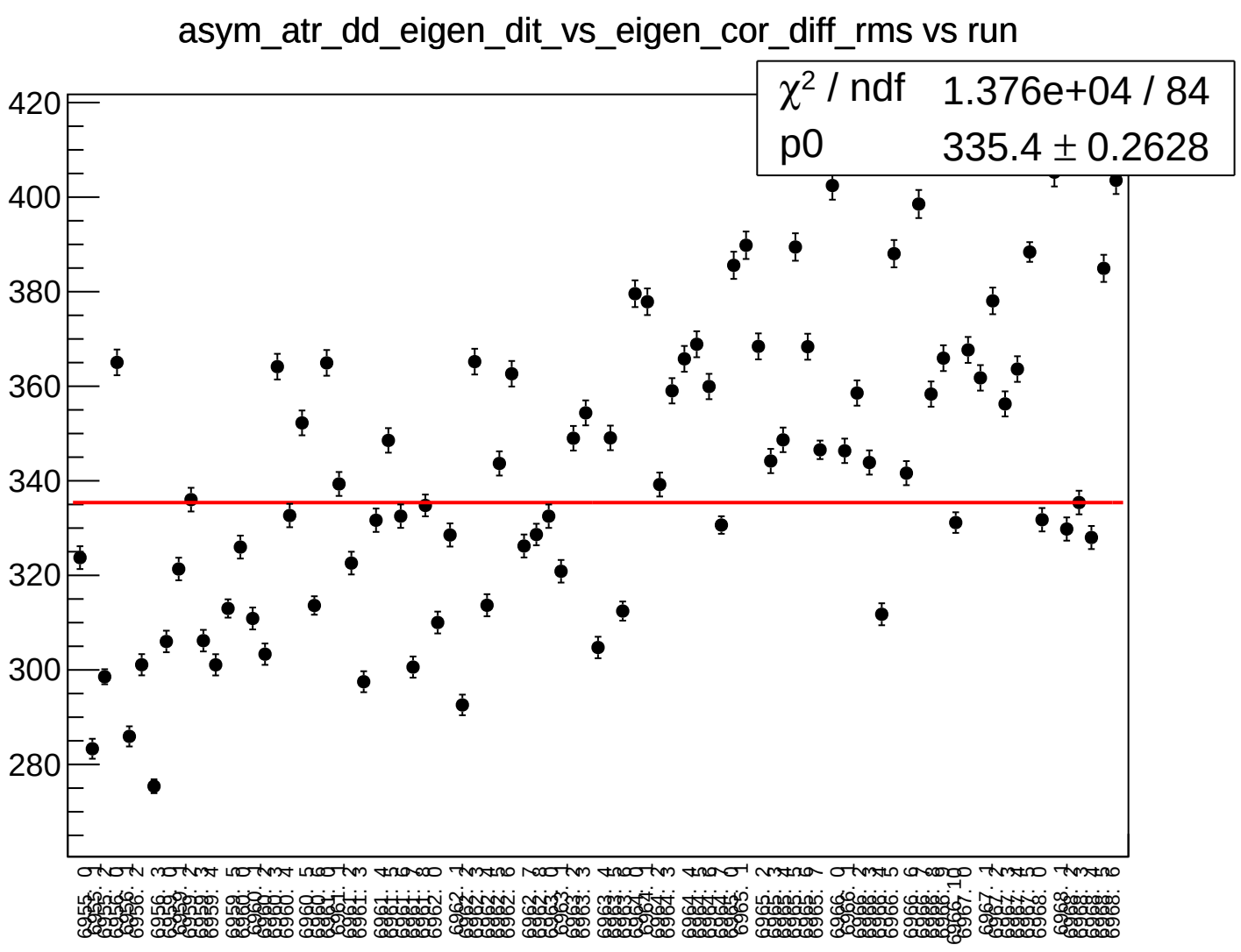

pull1D
Entries 85
Mean 0.001064
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

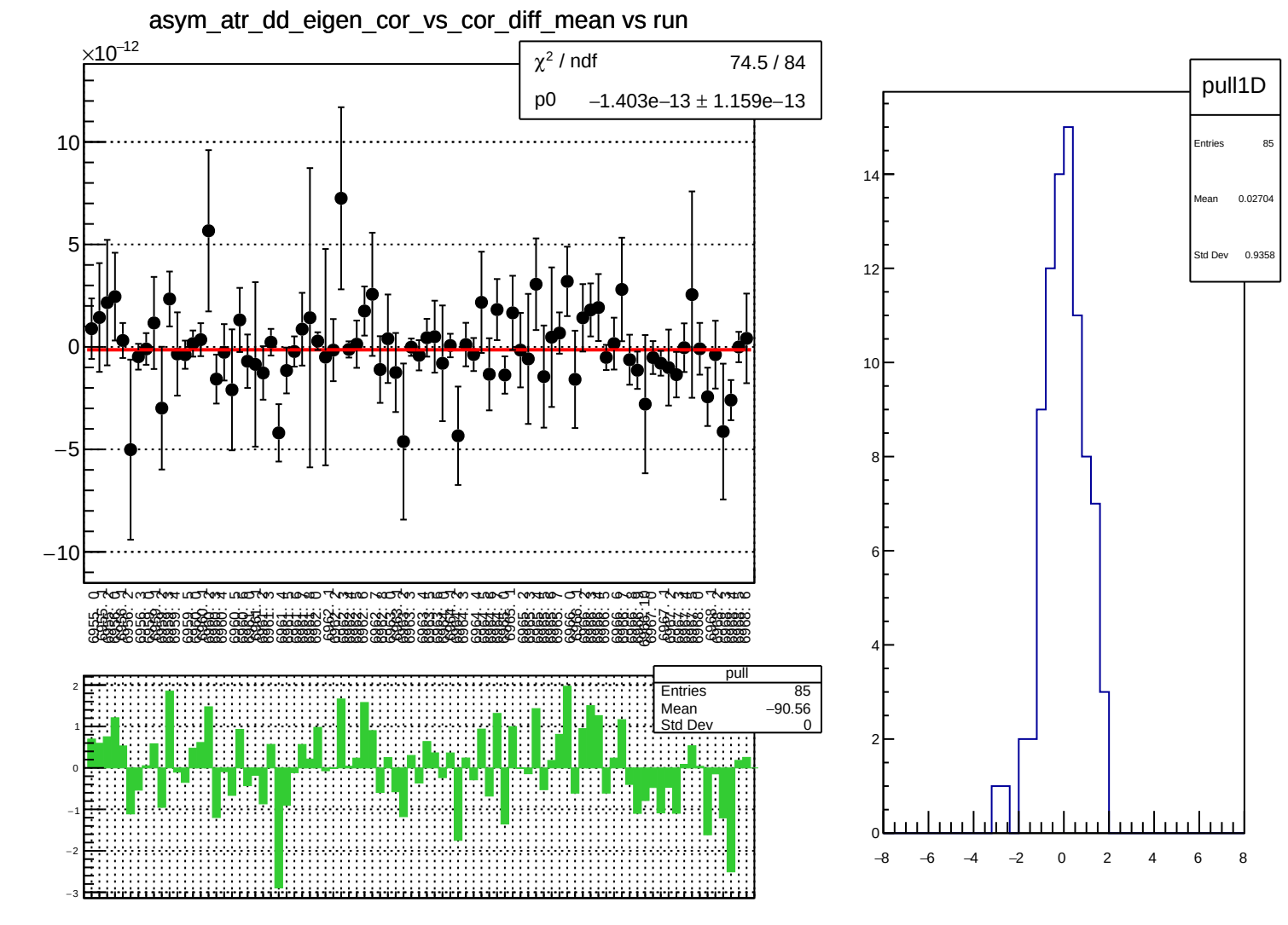

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2508 / 84
p0 0.007273 ± 5.679e−06
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066

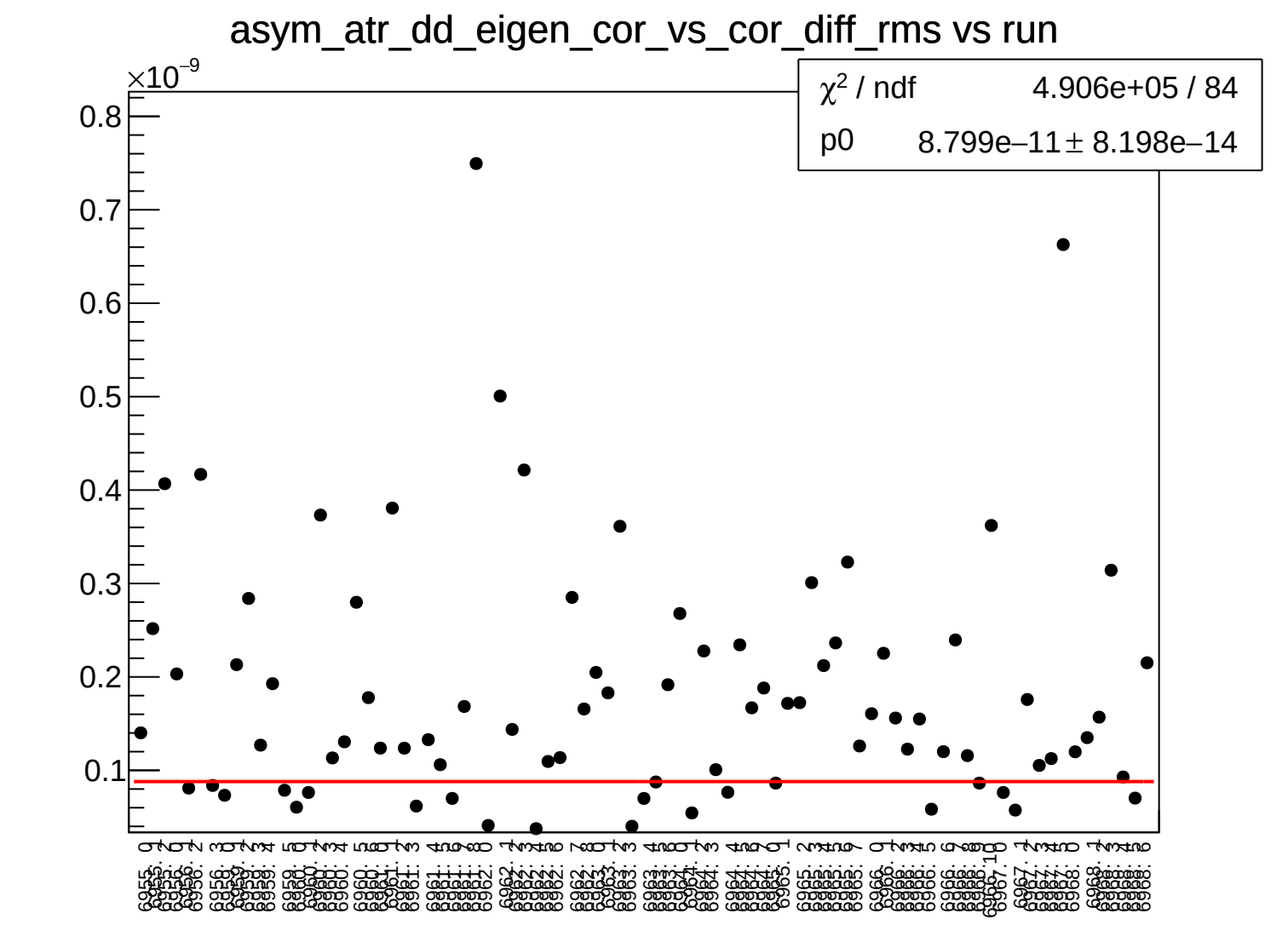

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.49 / 84
p0 0.4813 ± 0.3717
pull
Entries 85
Mean 291.4
Std Dev 0
pull1D
Entries 85
Mean 0.00589
Std Dev 0.9911

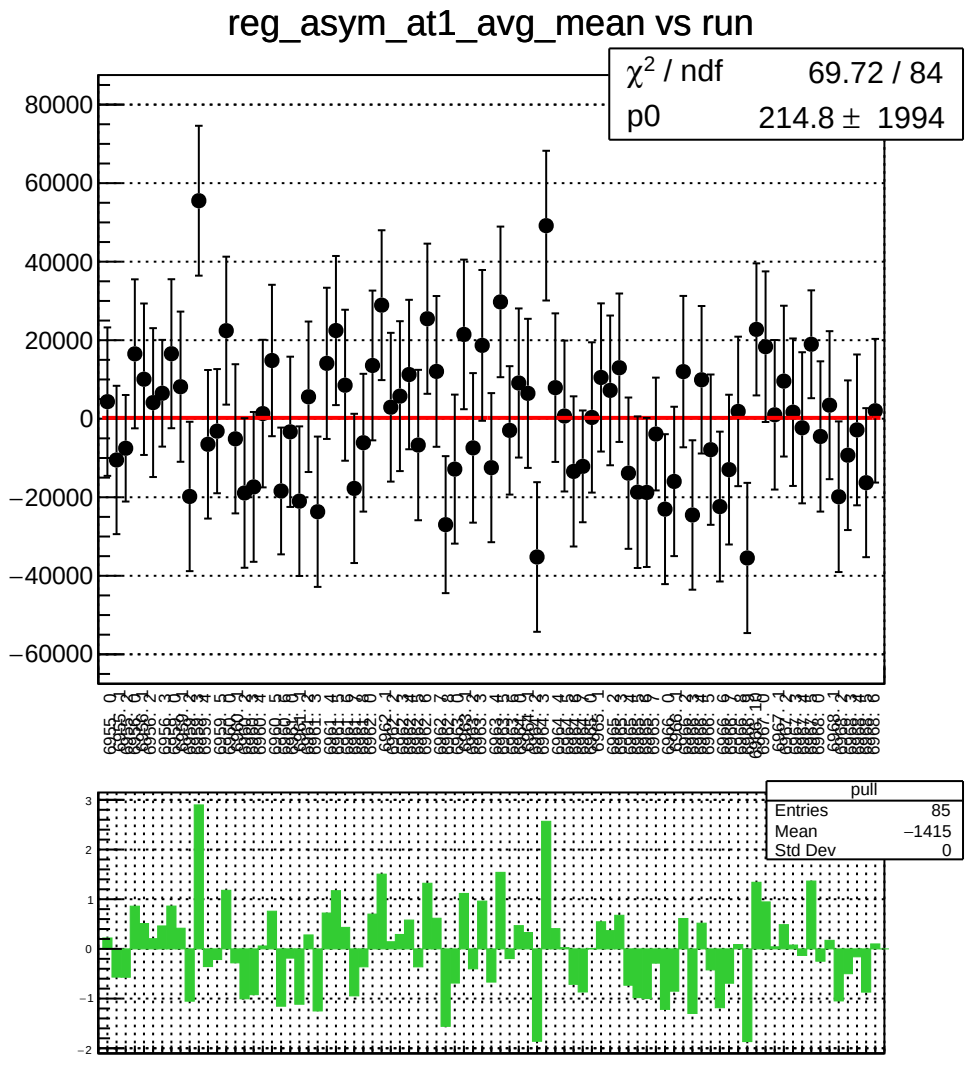

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.376e+04 / 84
p0 335.4 ± 0.2628
420
400
380
360
340
320
300
280

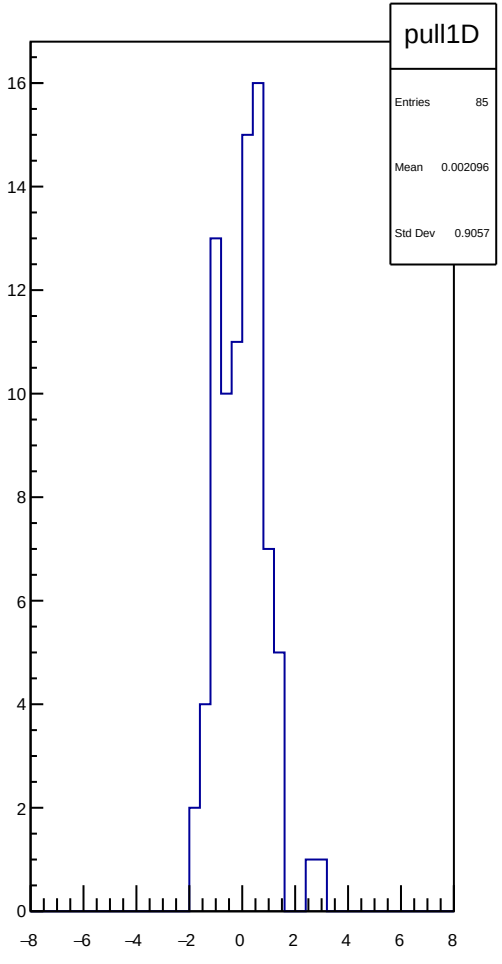

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.49 / 84
p0 0.4813 ± 0.3717
pull
Entries 85
Mean 291.4
Std Dev 0
pull1D
Entries 85
Mean 0.00589
Std Dev 0.9911

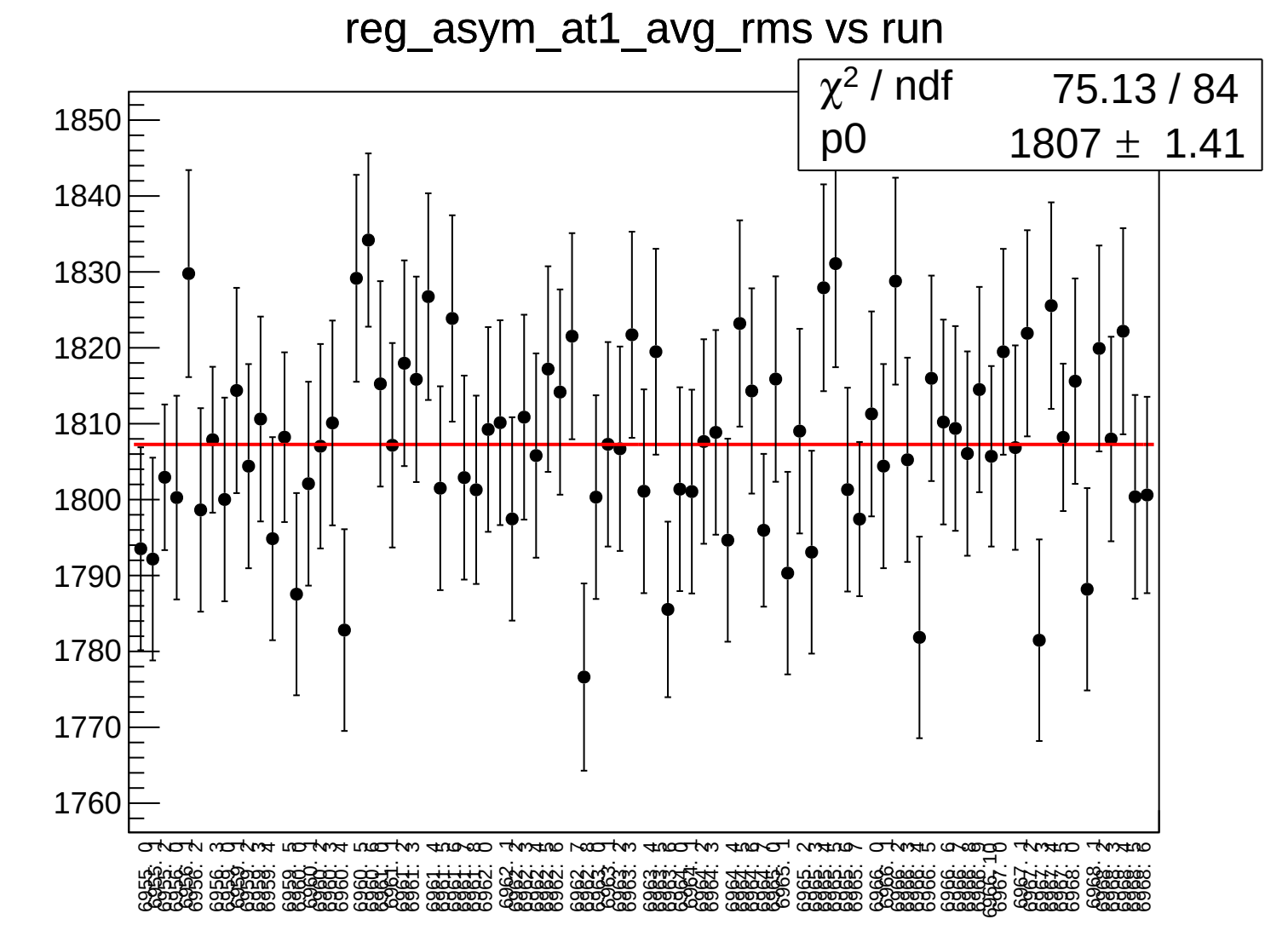

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.376e+04 / 84
p0 335.4 ± 0.2628
420
400
380
360
340
320
300
280

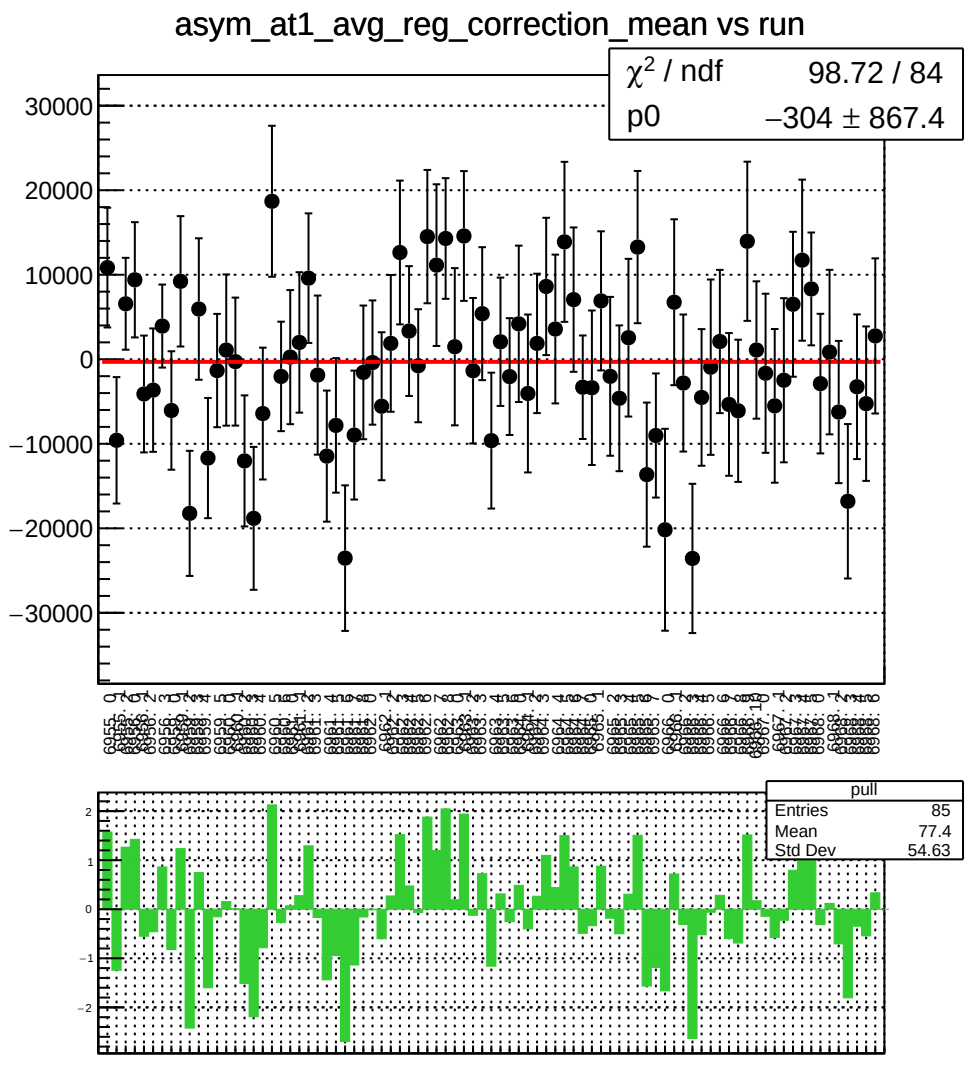

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.5 / 84
p0 −1.403e−13 ± 1.159e−13
pull
Entries 85
Mean −90.56
Std Dev 0
pull1D
Entries 85
Mean 0.02704
Std Dev 0.9358

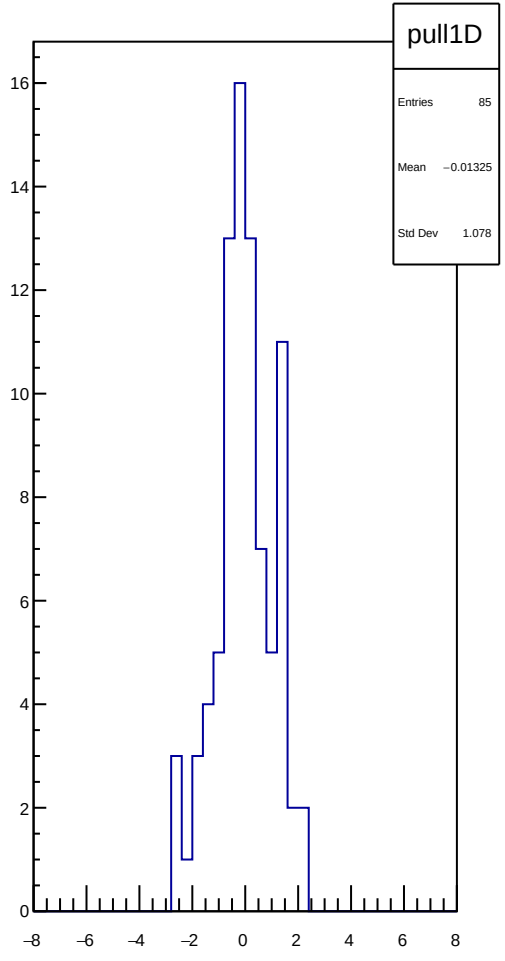

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.906e+05 / 84
p0 8.799e−11 ± 8.198e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

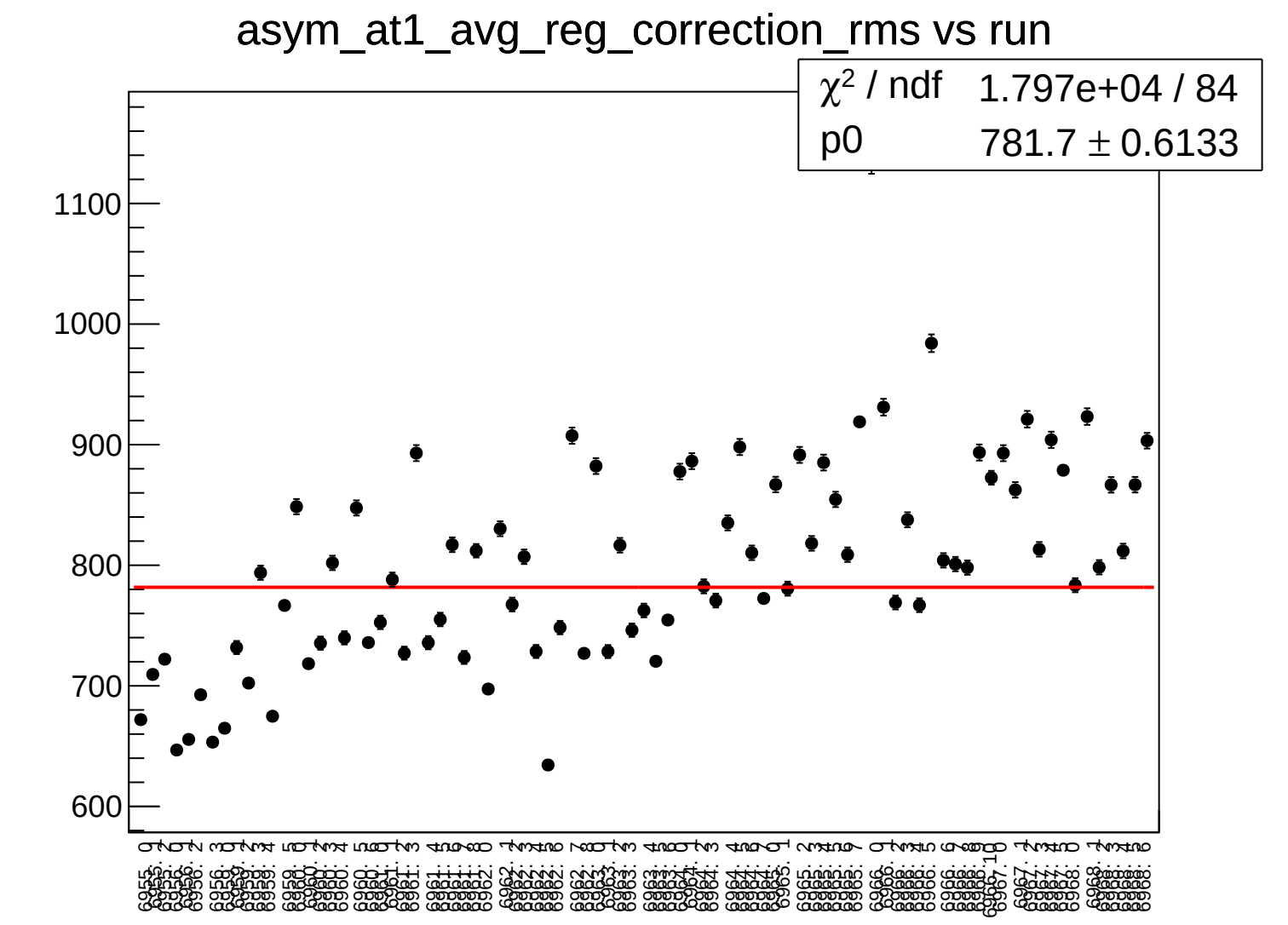

reg_asym_at1_avg_mean vs run
χ² / ndf 69.72 / 84
p0 214.8 ± 1994
pull
Entries 85
Mean −1415
Std Dev 0

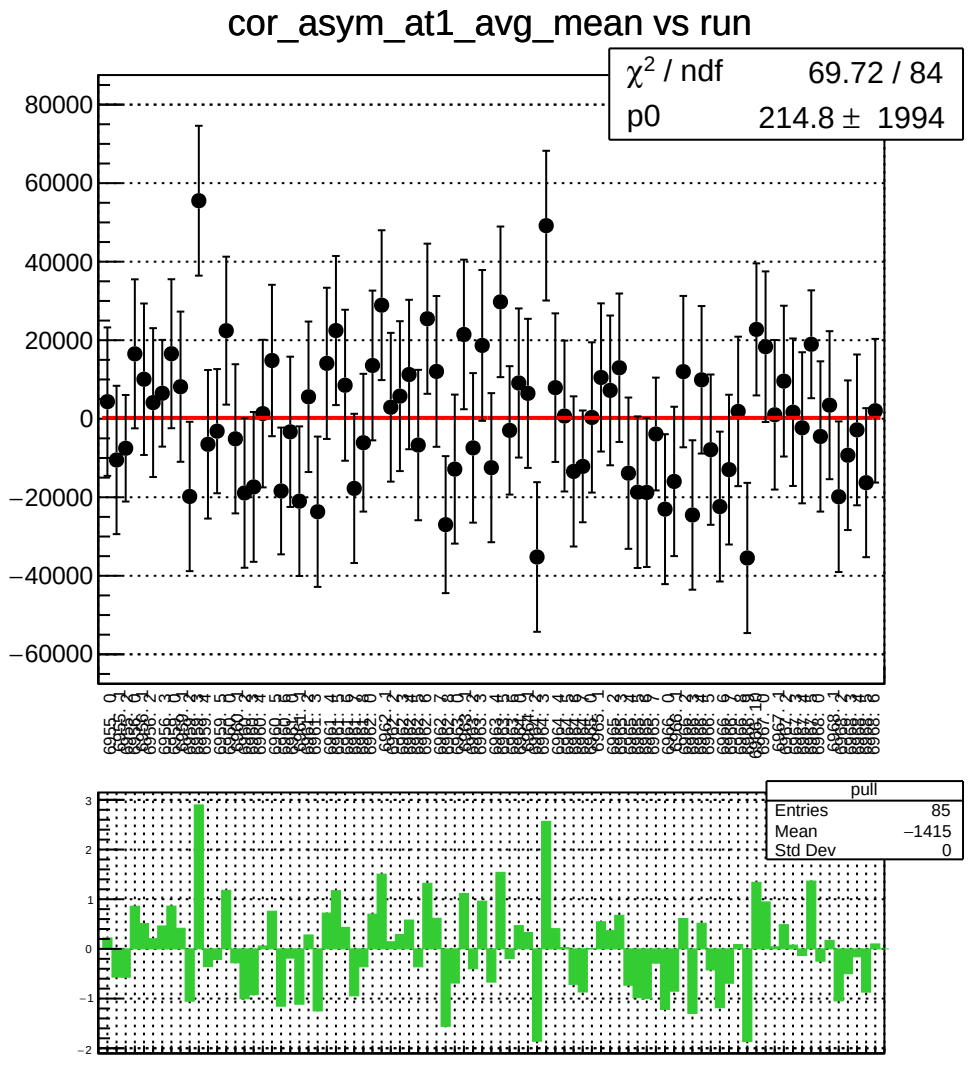

pull1D
Entries 85
Mean 0.002096
Std Dev 0.9057

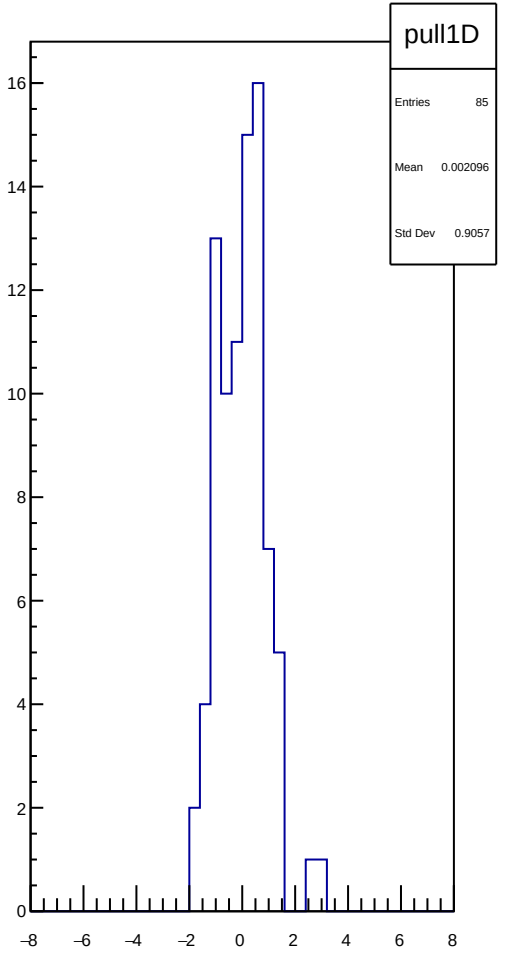

reg_asym_at1_avg_rms vs run
$\chi^2$ / ndf 75.13 / 84
p0 1807 ± 1.41
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

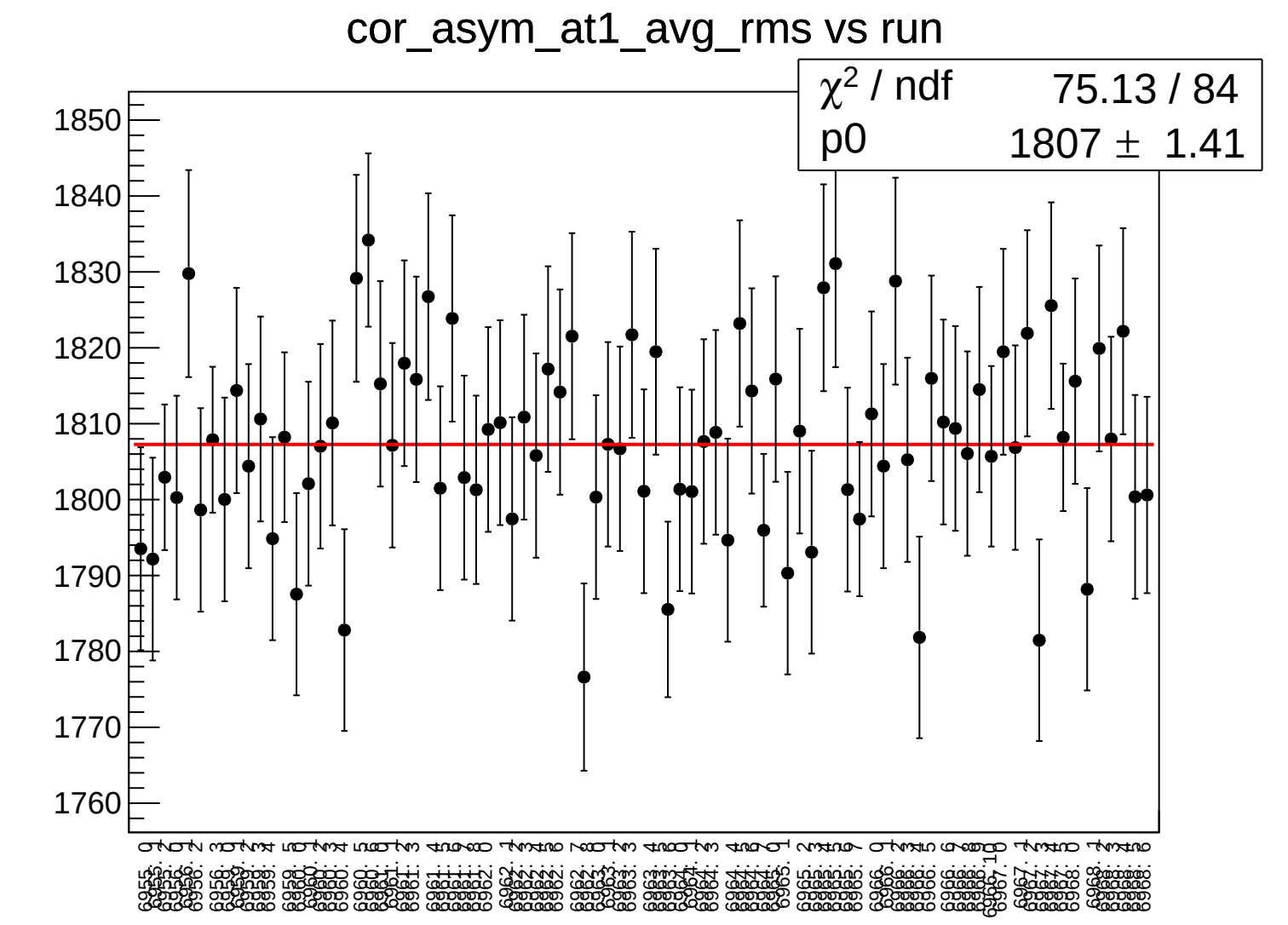

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 98.72 / 84
p0 −304 ± 867.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 77.4
Std Dev 54.63
2
1
0
−1
−2

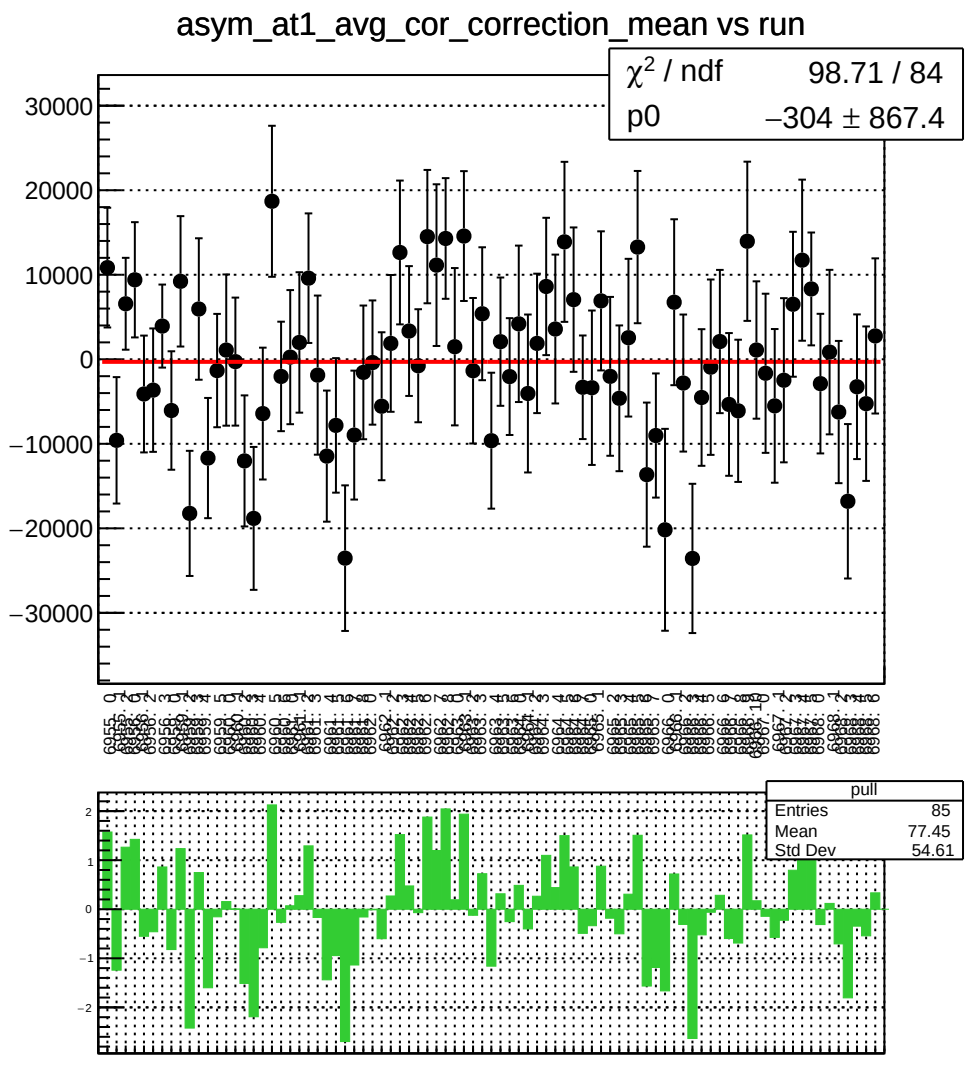

pull1D
Entries 85
Mean −0.01325
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

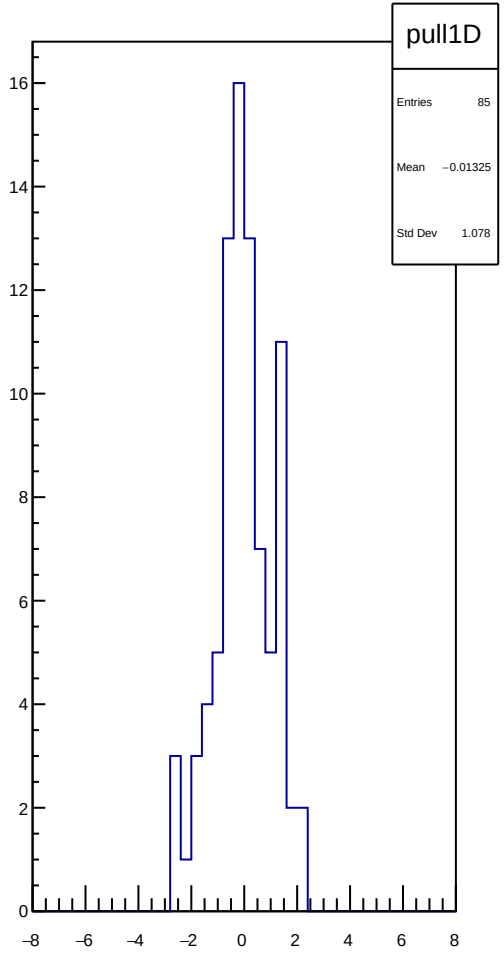

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.797e+04 / 84
p0 781.7 ± 0.6133
1100
1000
900
800
700
600

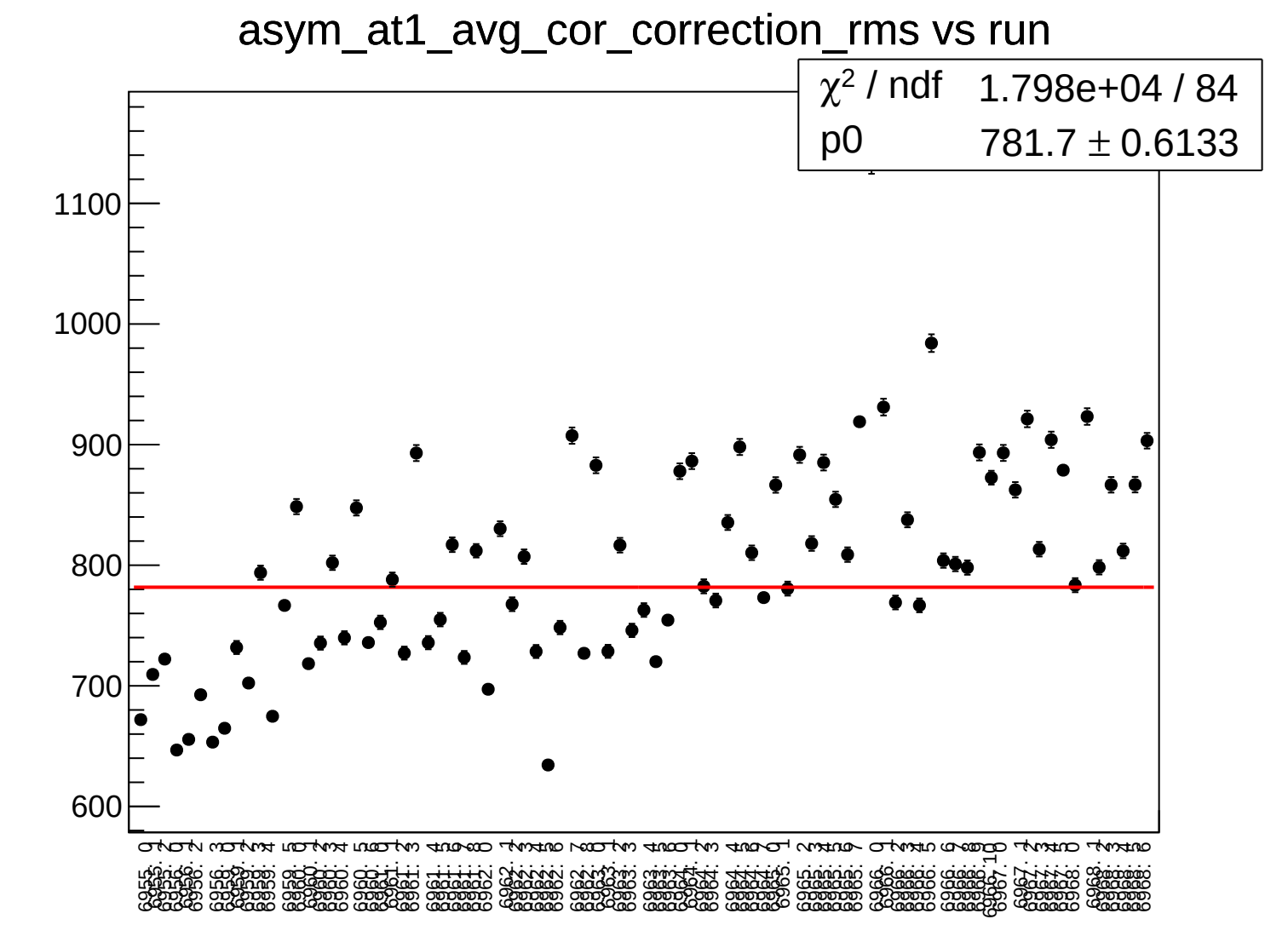

cor_asym_at1_avg_mean vs run
χ² / ndf 69.72 / 84
p0 214.8 ± 1994
pull
Entries 85
Mean −1415
Std Dev 0

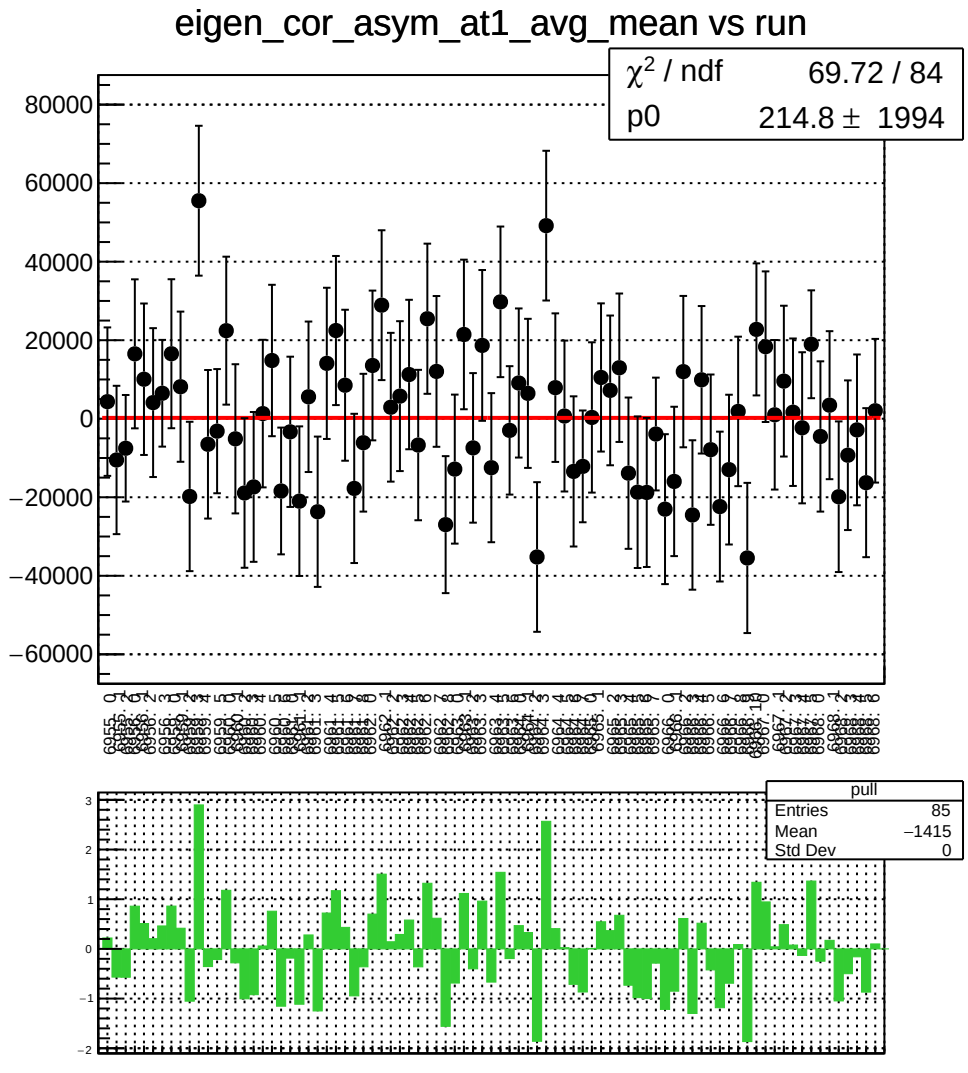

pull1D
Entries 85
Mean 0.002096
Std Dev 0.9057

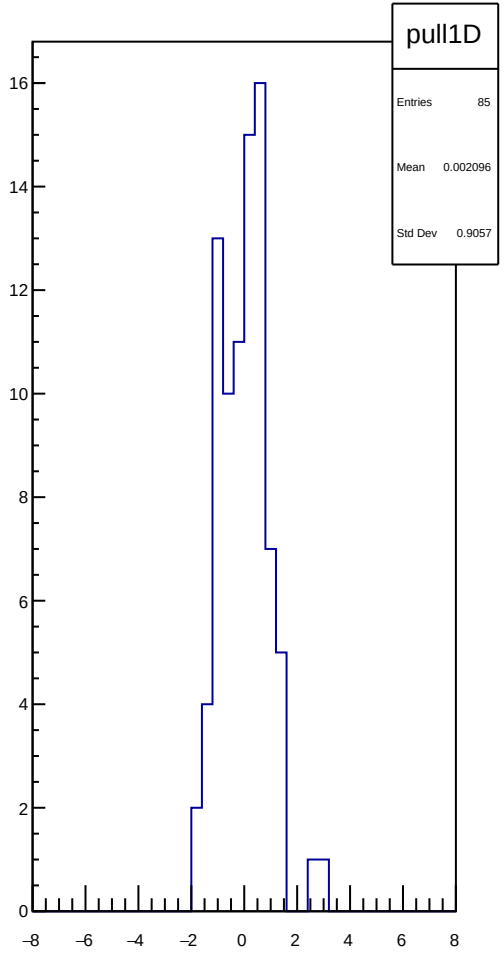

cor_asym_at1_avg_rms vs run
$\chi^2$ / ndf 75.13 / 84
p0 1807 ± 1.41
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

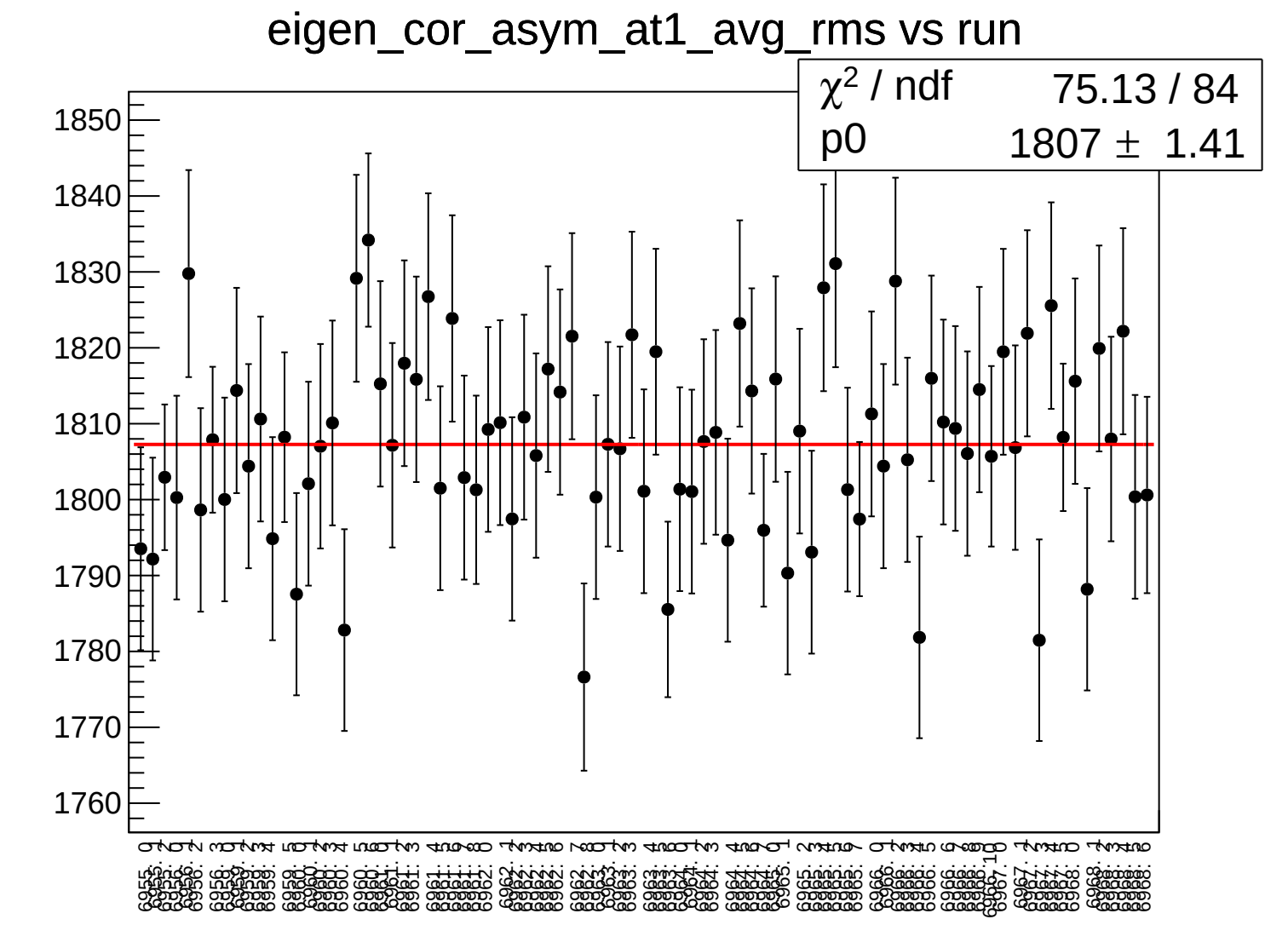

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 98.71 / 84
p0 −304 ± 867.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 77.45
Std Dev 54.61
2
1
0
−1
−2

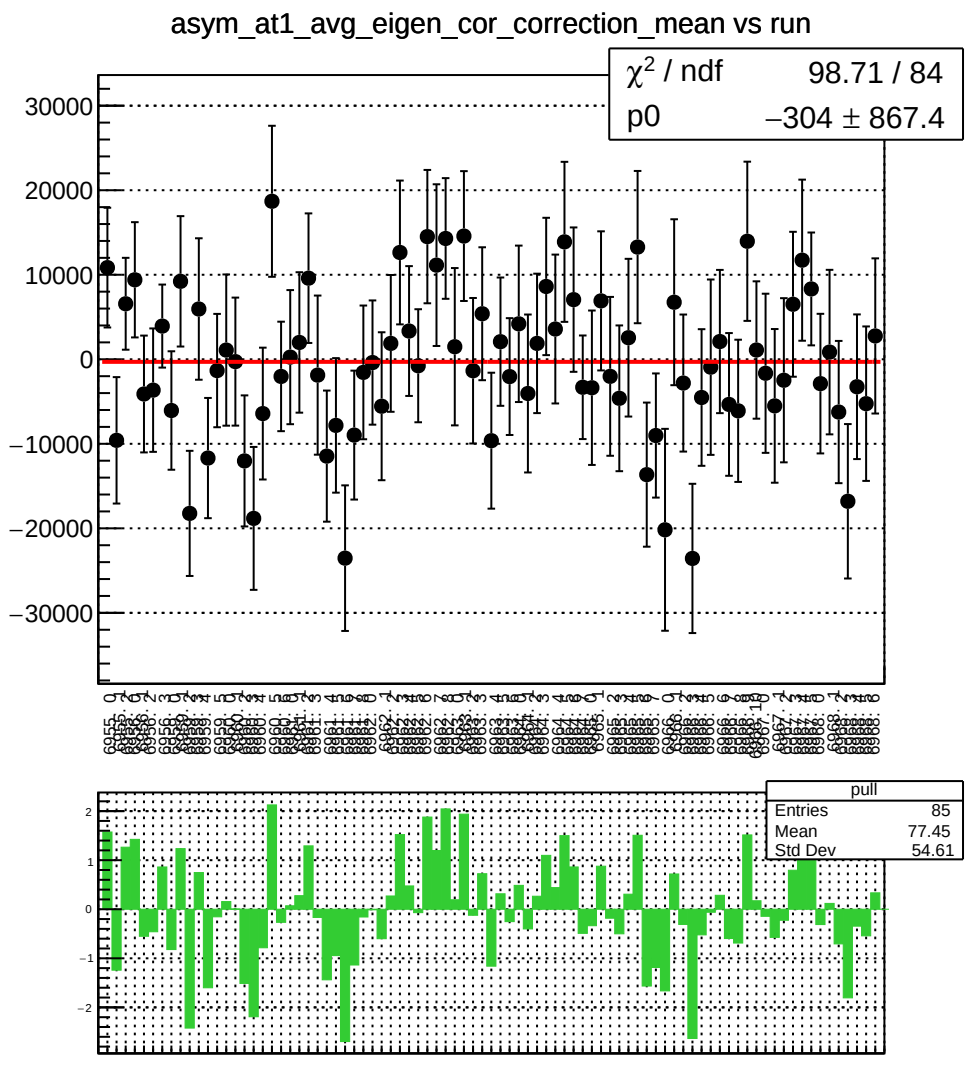

pull1D
Entries 85
Mean −0.01325
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

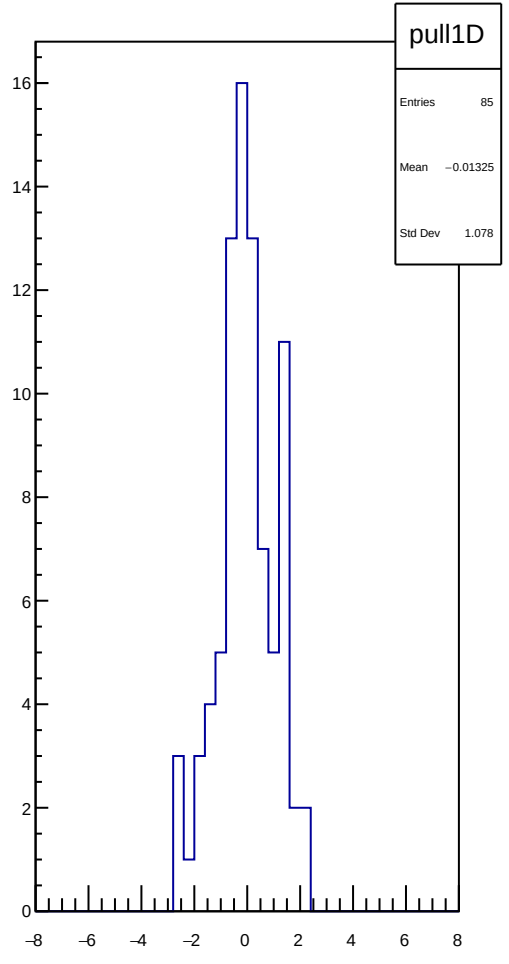

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.798e+04 / 84
p0 781.7 ± 0.6133
1100
1000
900
800
700
600

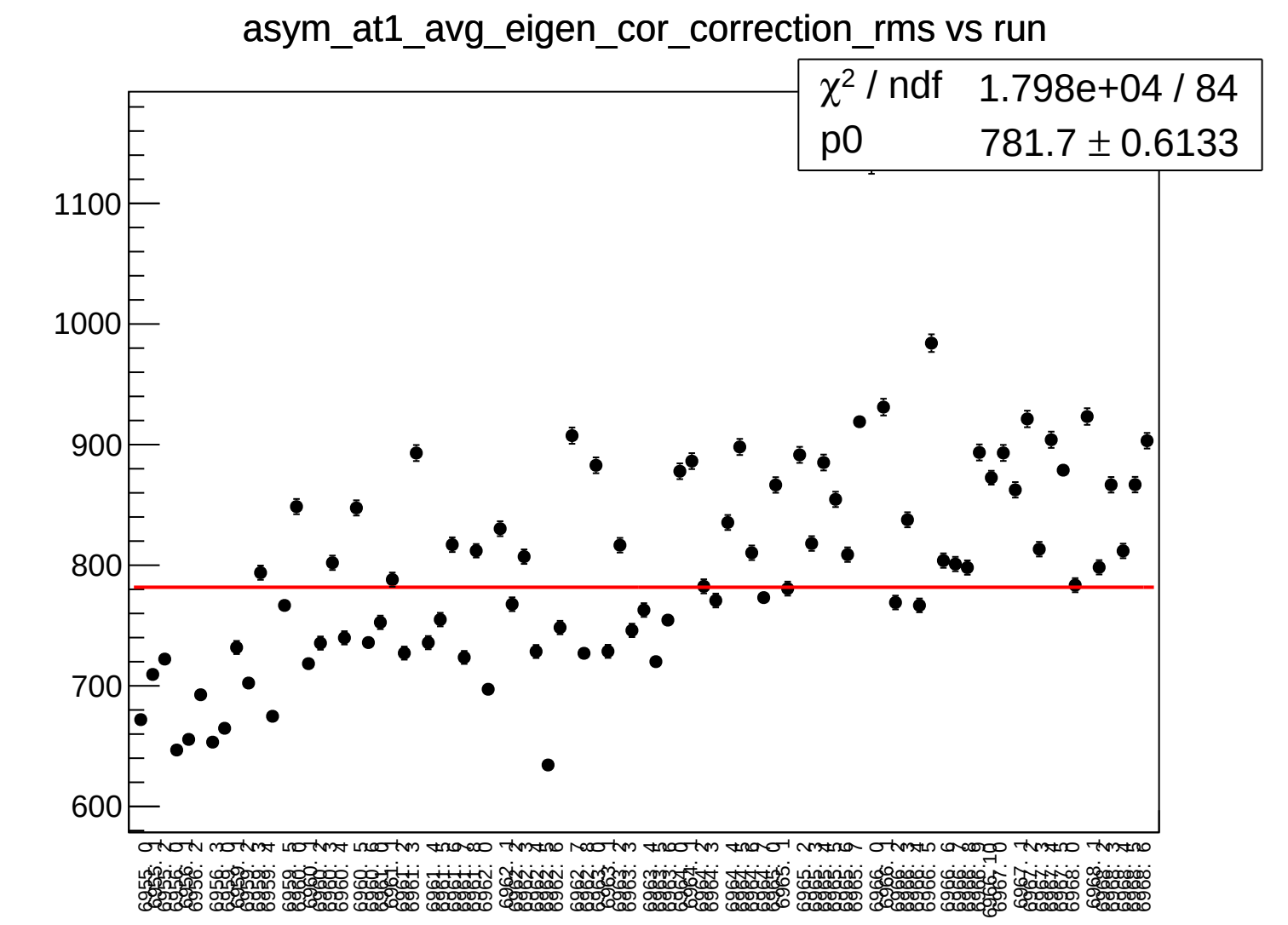

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 69.72 / 84
p0 214.8 ± 1994
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −1415
Std Dev 0
3
2
1
0
−1
−2

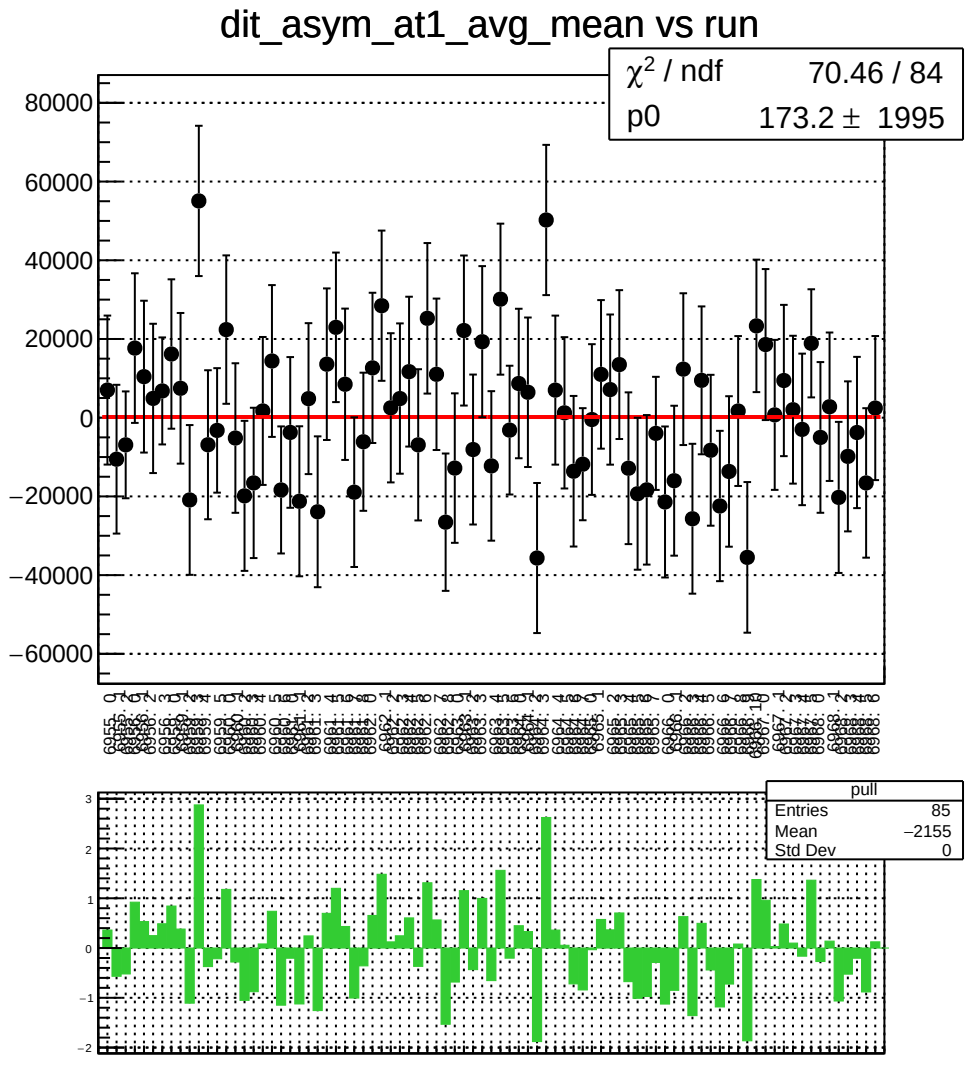

pull1D
Entries 85
Mean 0.002096
Std Dev 0.9057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

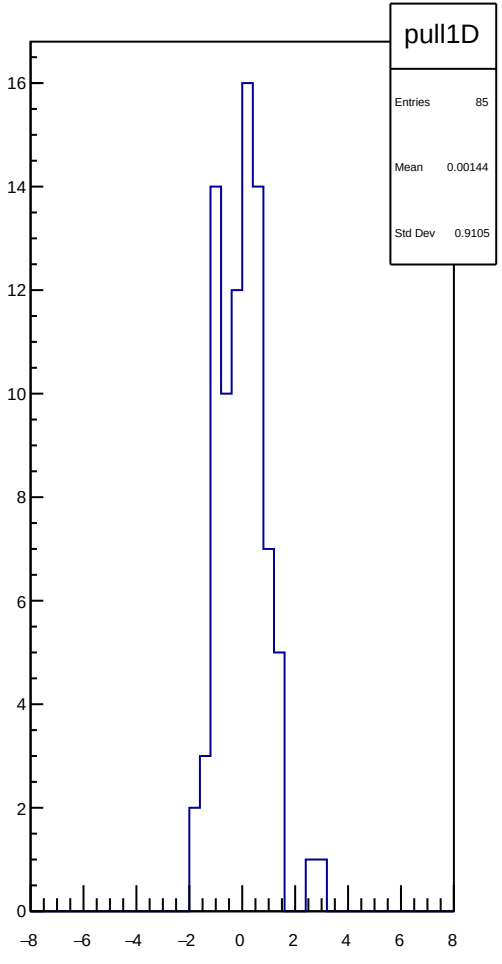

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 75.13 / 84
p0 1807 ± 1.41
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

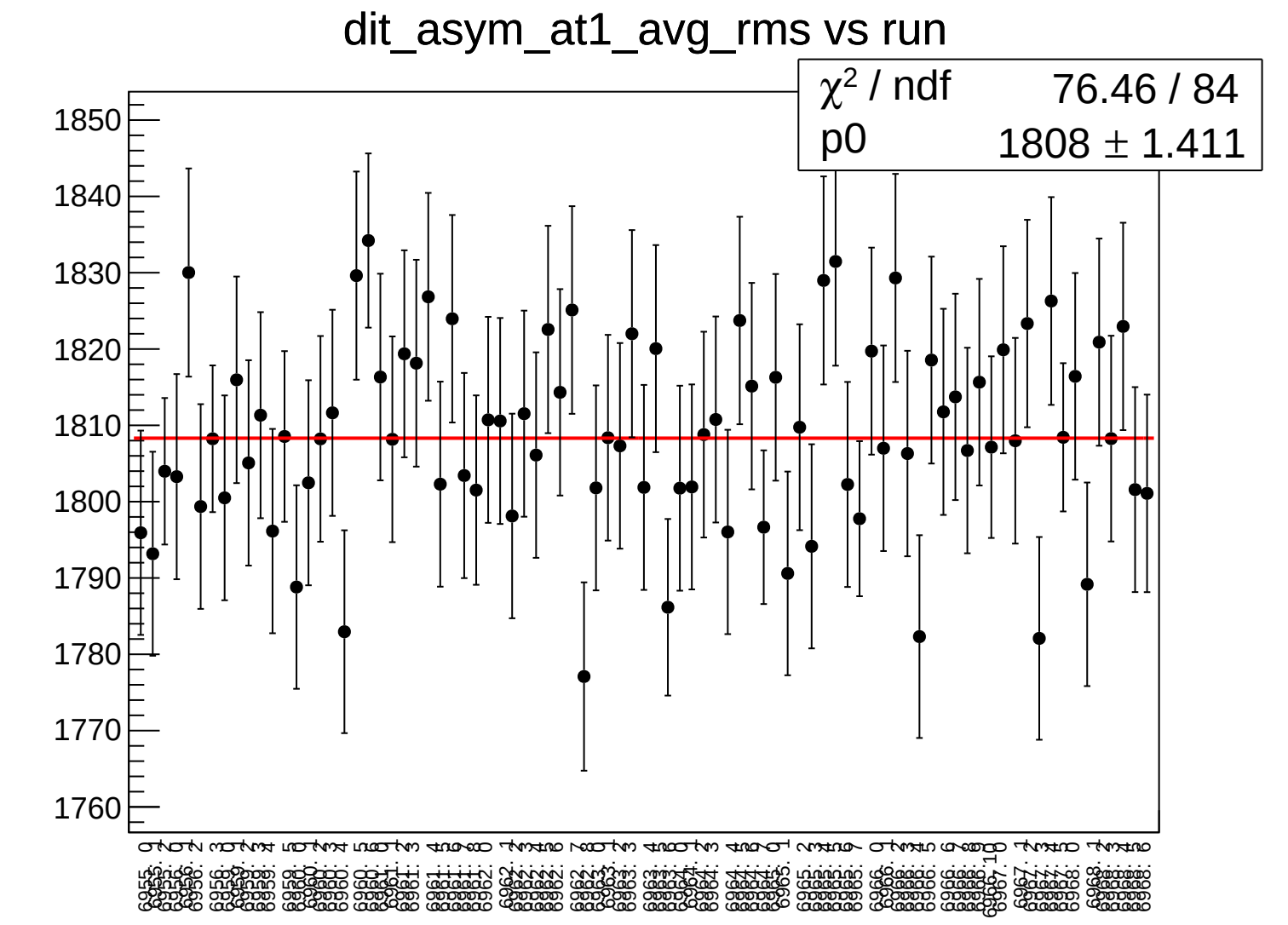

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.71 / 84
p0 −304 ± 867.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 77.45
Std Dev 54.61
2
1
0
−1
−2

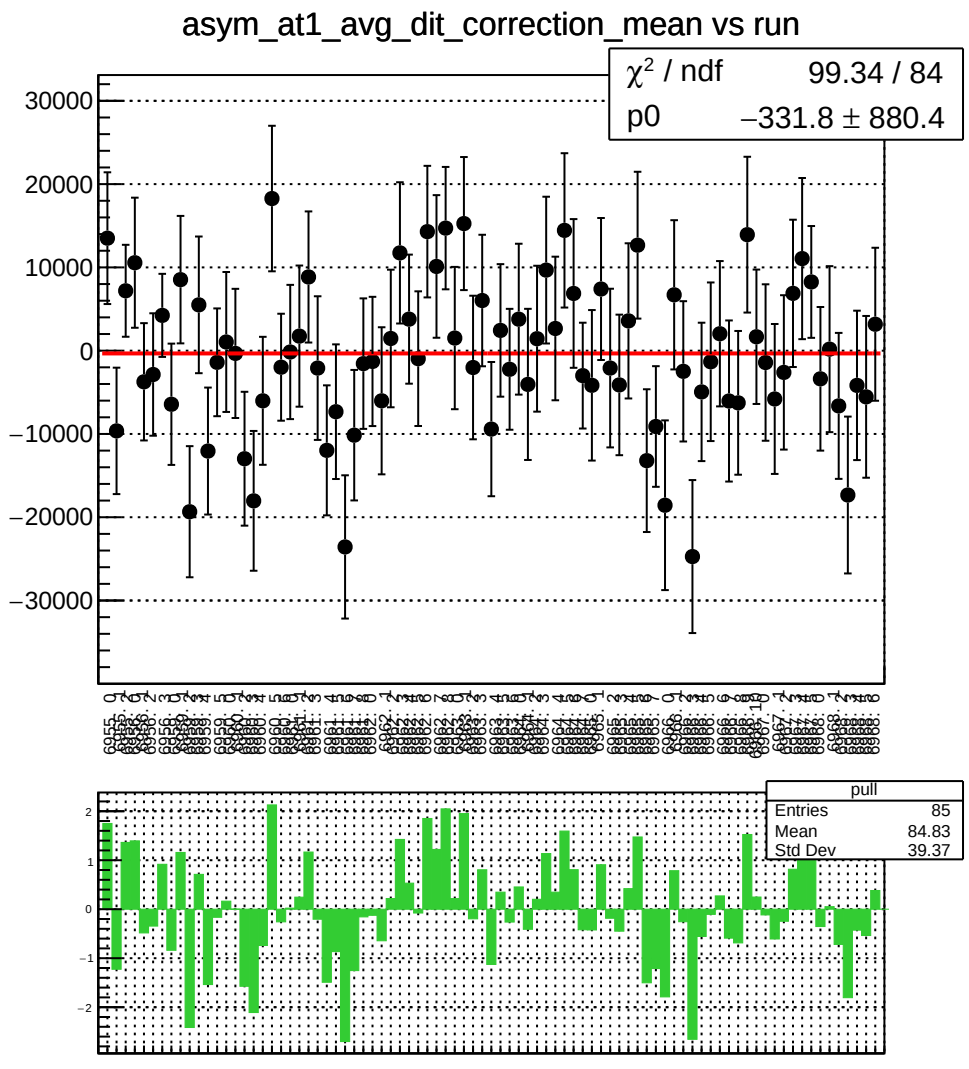

pull1D
Entries 85
Mean −0.01325
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

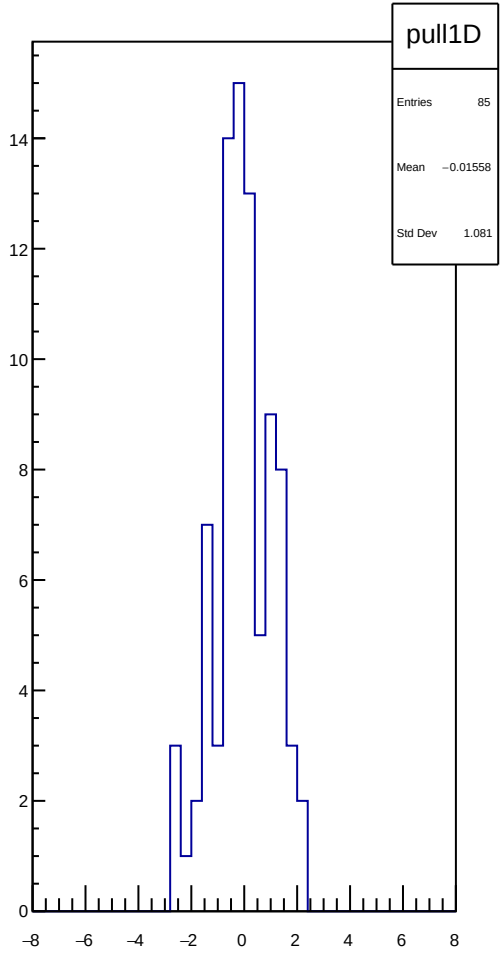

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.798e+04 / 84
p0 781.7 ± 0.6133
1100
1000
900
800
700
600

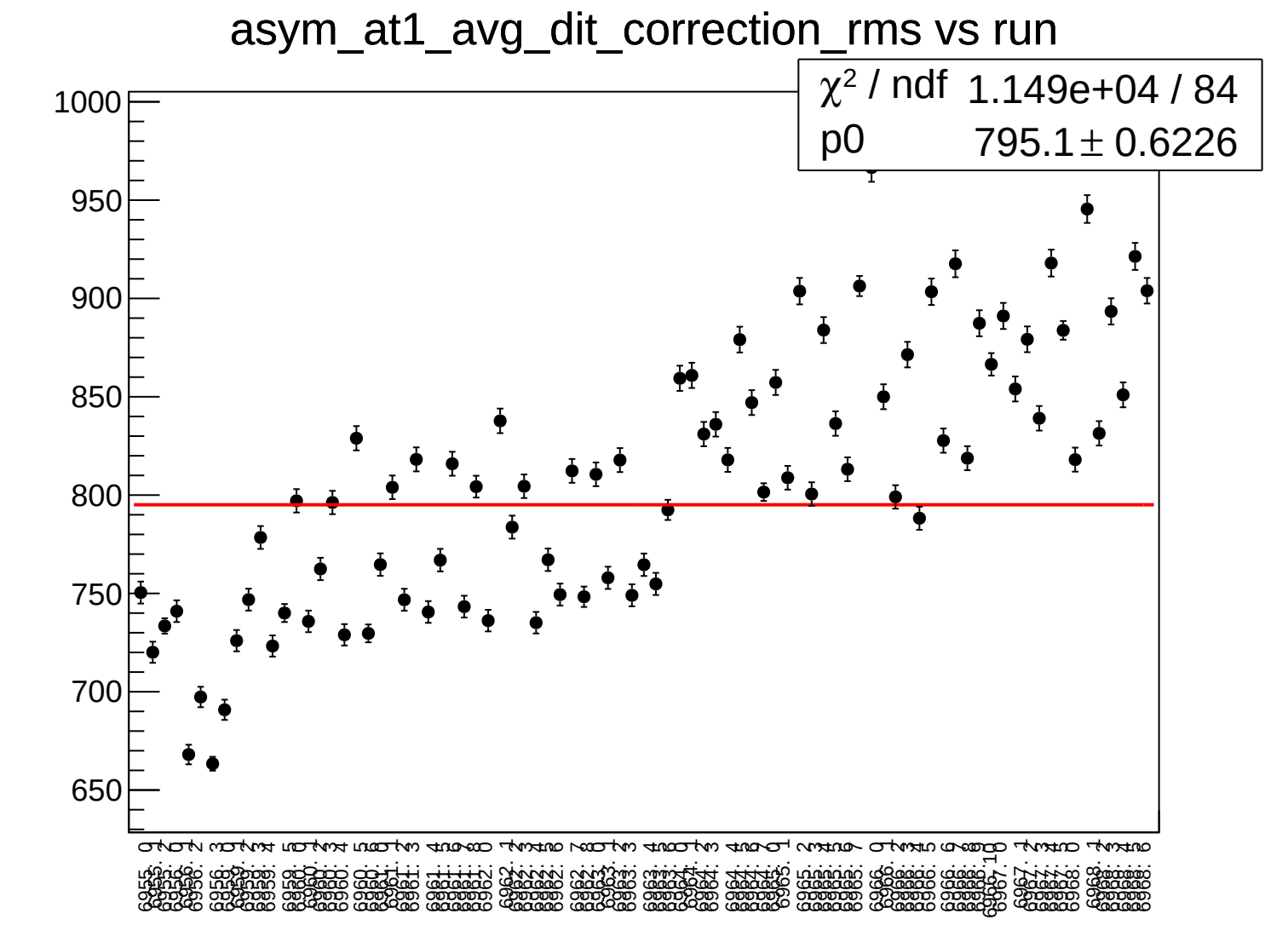

dit_asym_at1_avg_mean vs run
χ² / ndf 70.46 / 84
p0 173.2 ± 1995
pull
Entries 85
Mean −2155
Std Dev 0

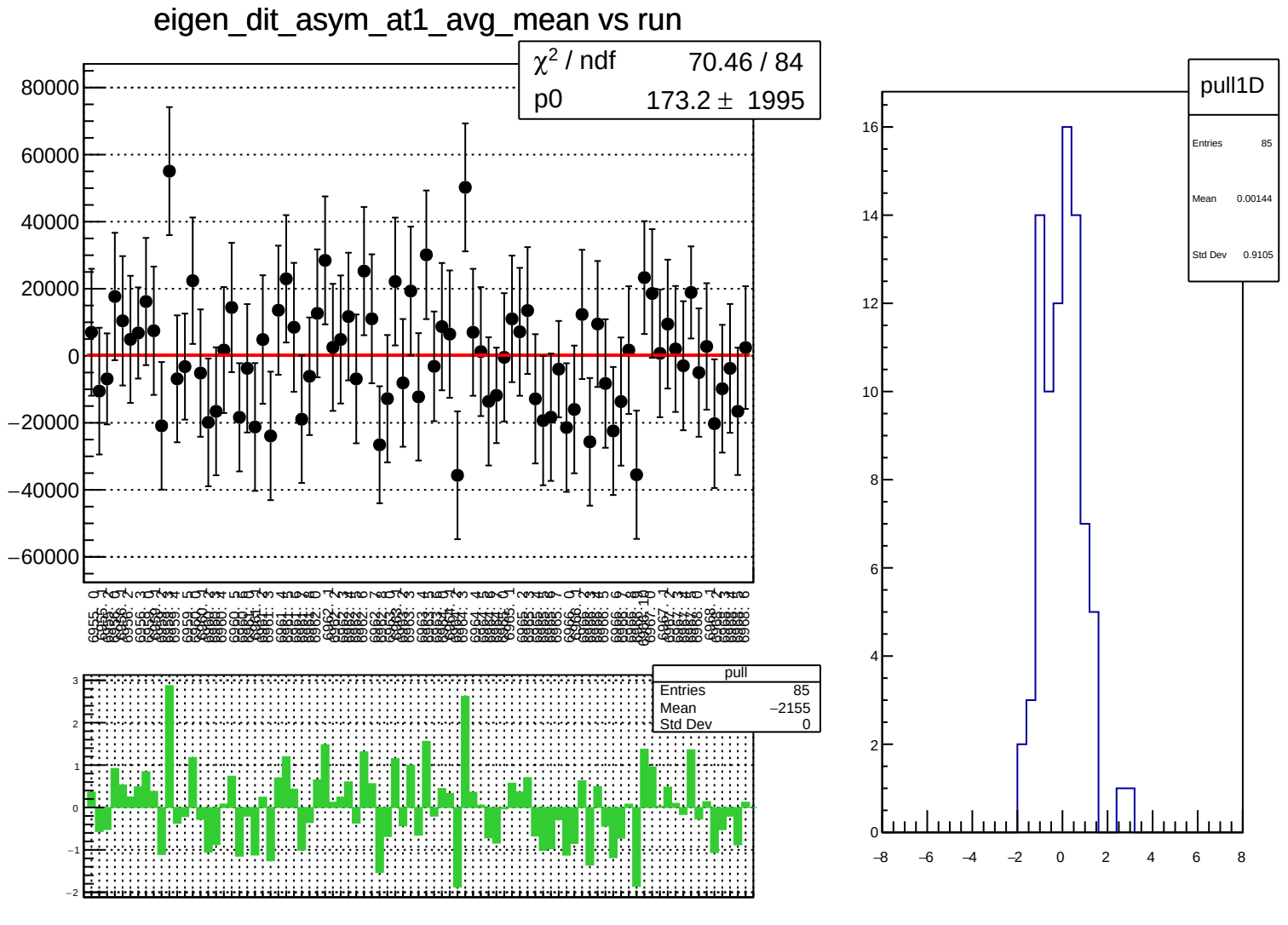

pull1D
Entries 85
Mean 0.00144
Std Dev 0.9105

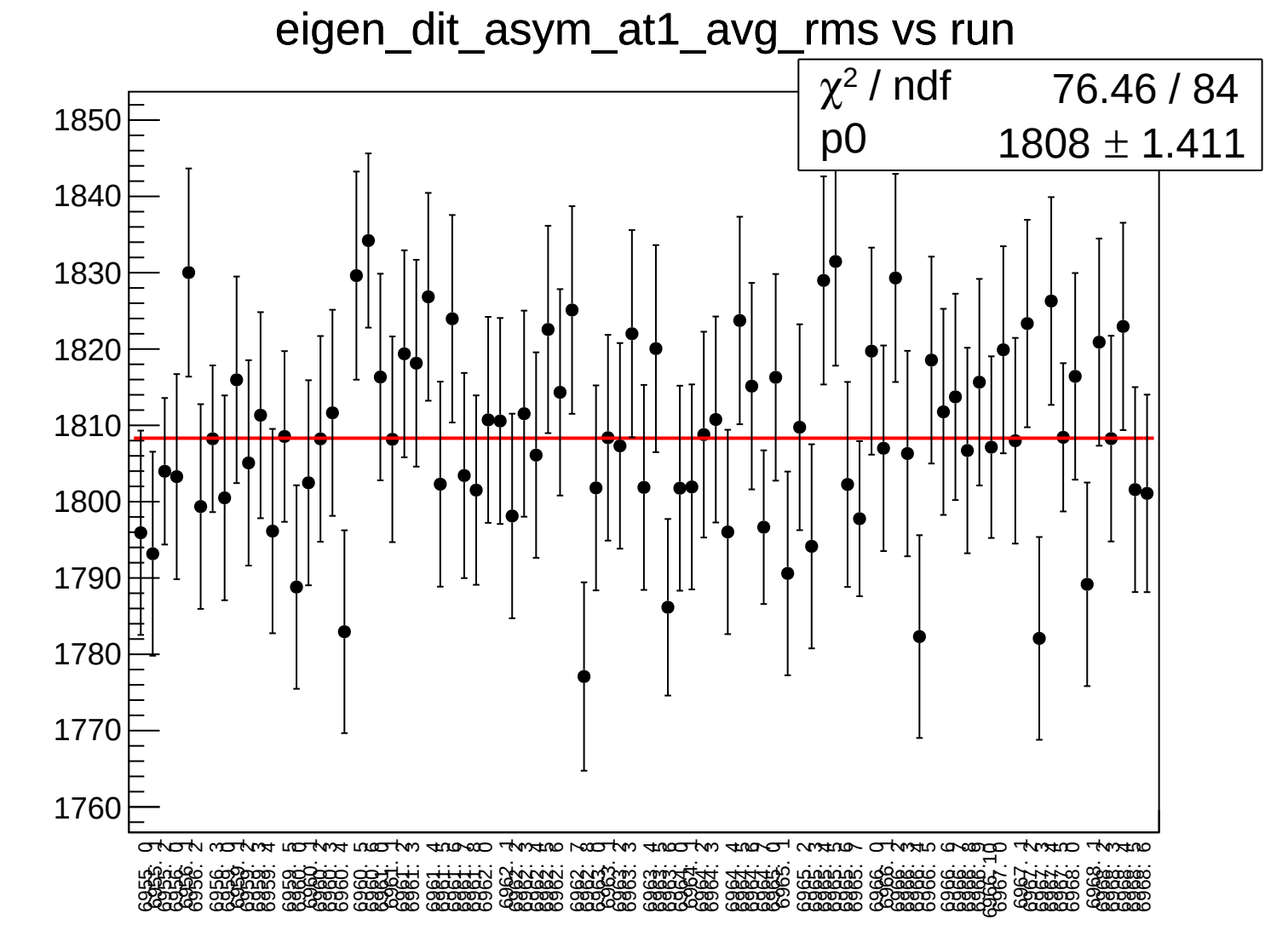

dit_asym_at1_avg_rms vs run
$\chi^2$ / ndf 76.46 / 84
p0 1808 ± 1.411
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

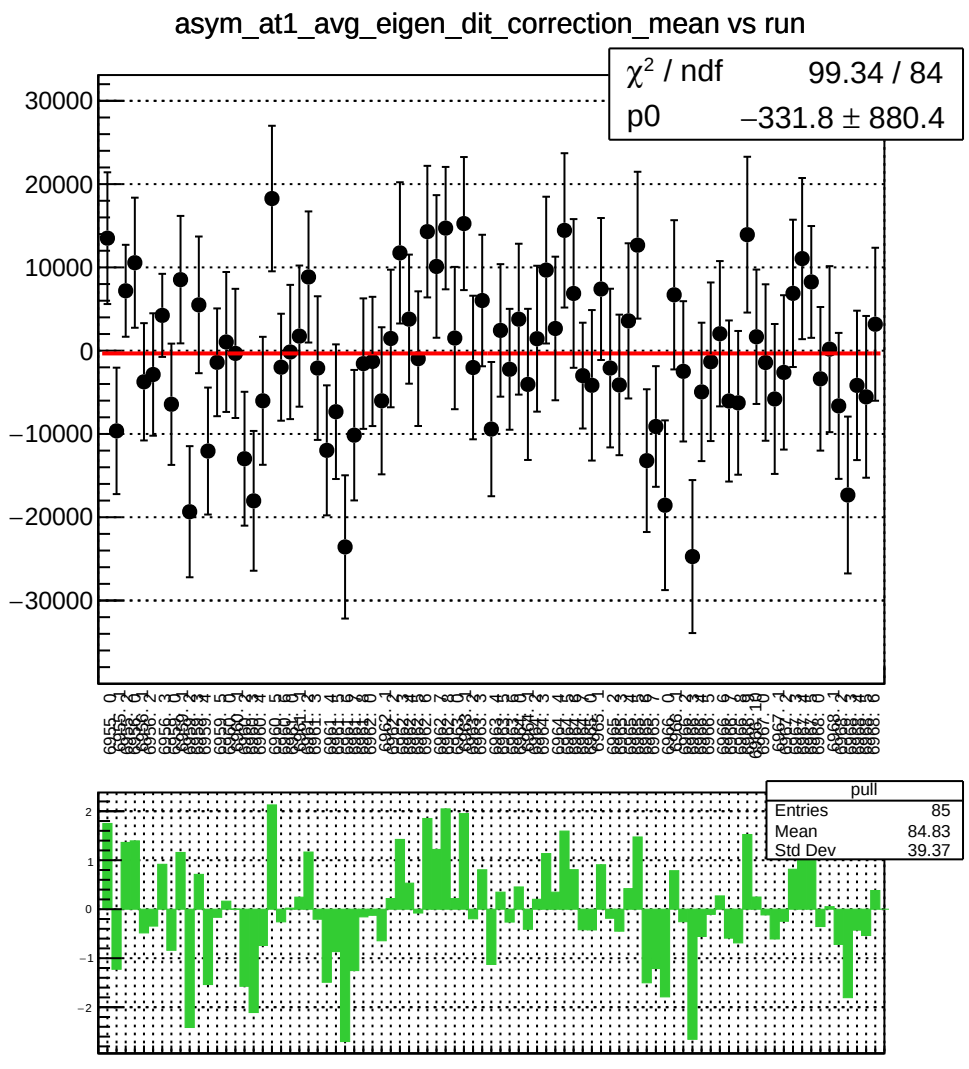

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 99.34 / 84
p0 −331.8 ± 880.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 84.83
Std Dev 39.37
2
1
0
−1
−2

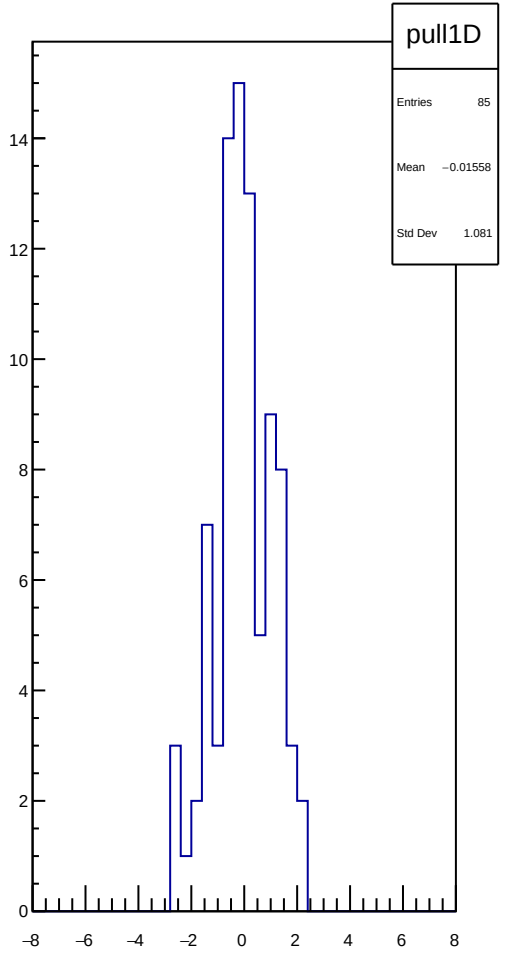

pull1D
Entries 85
Mean −0.01558
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

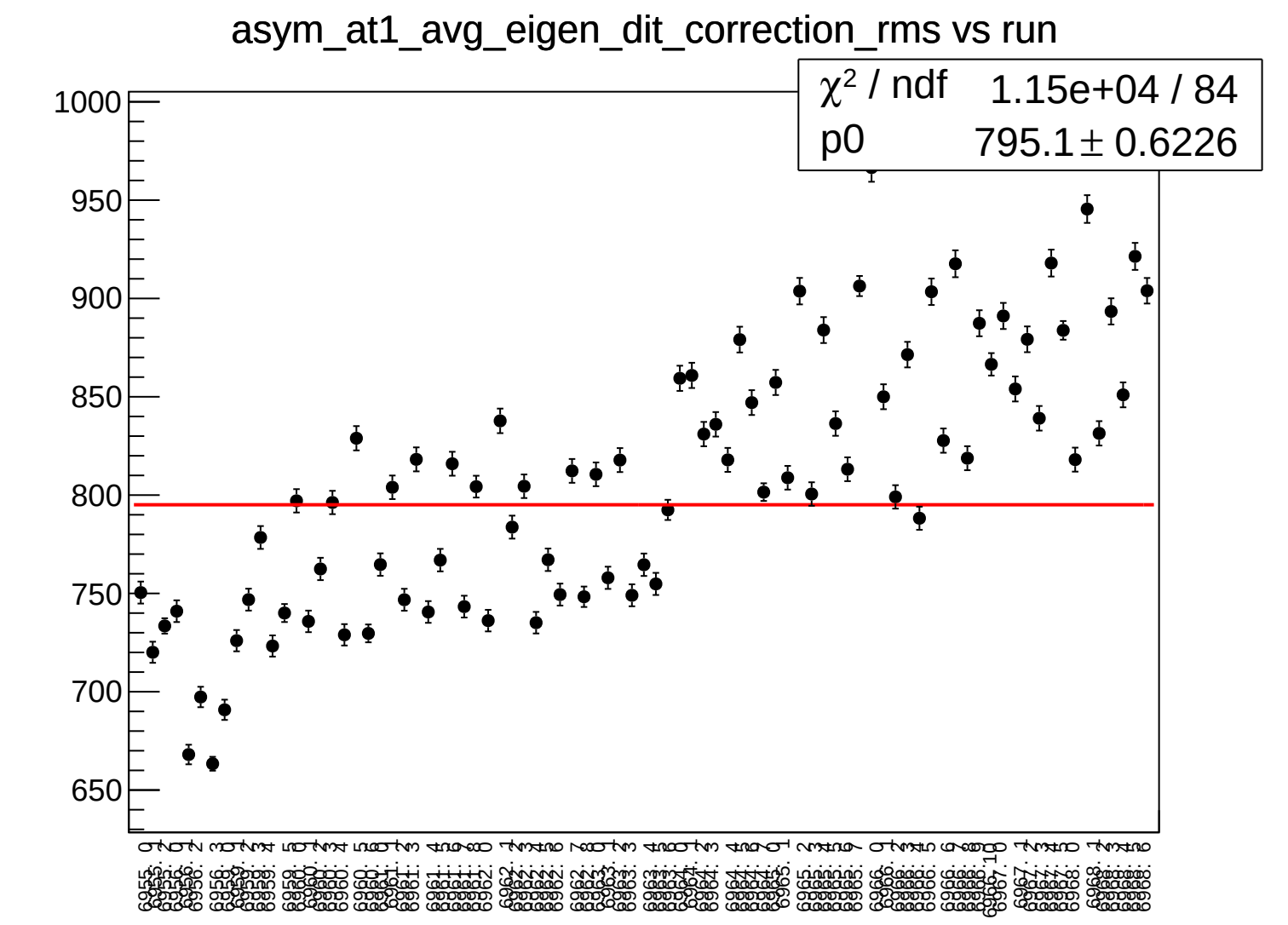

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.149e+04 / 84
p0 795.1 ± 0.6226
1000
950
900
850
800
750
700
650

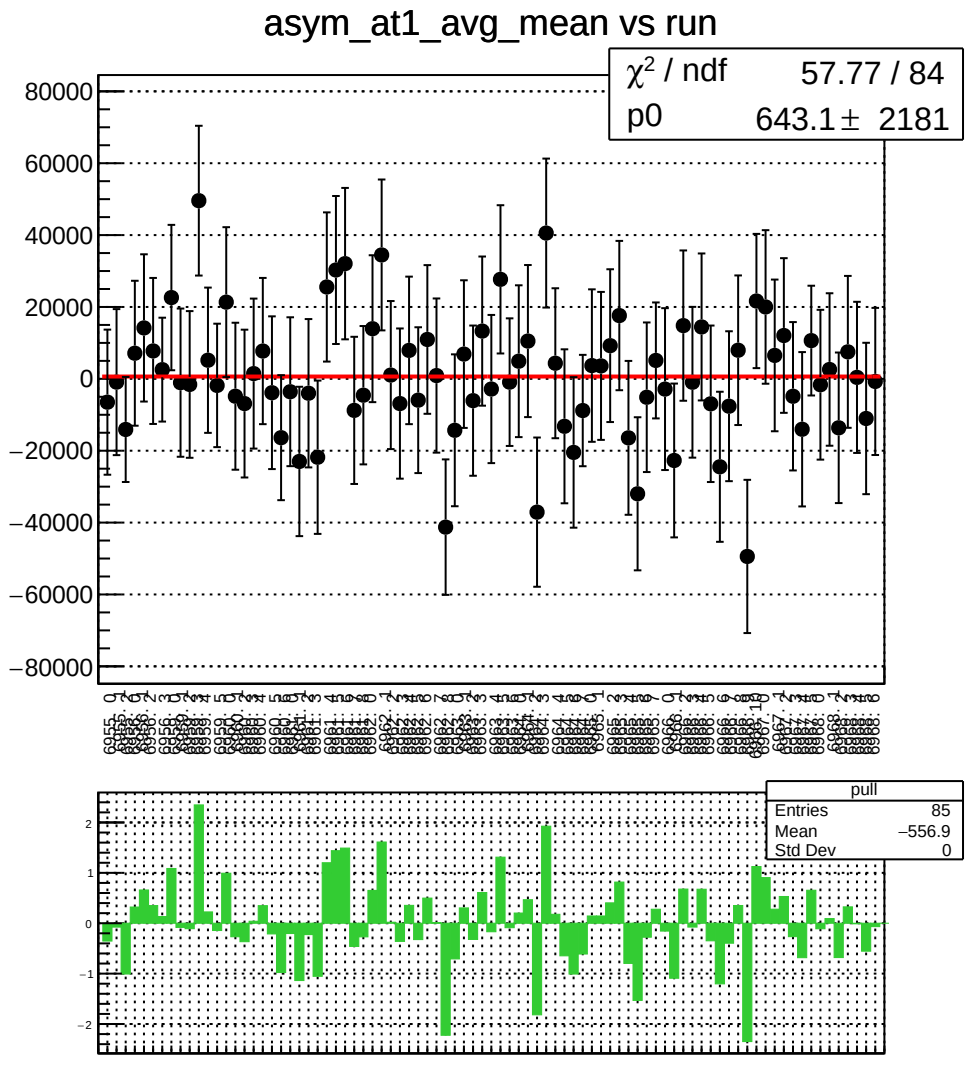

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 70.46 / 84
p0 173.2 ± 1995
pull
Entries 85
Mean −2155
Std Dev 0
pull1D
Entries 85
Mean 0.00144
Std Dev 0.9105

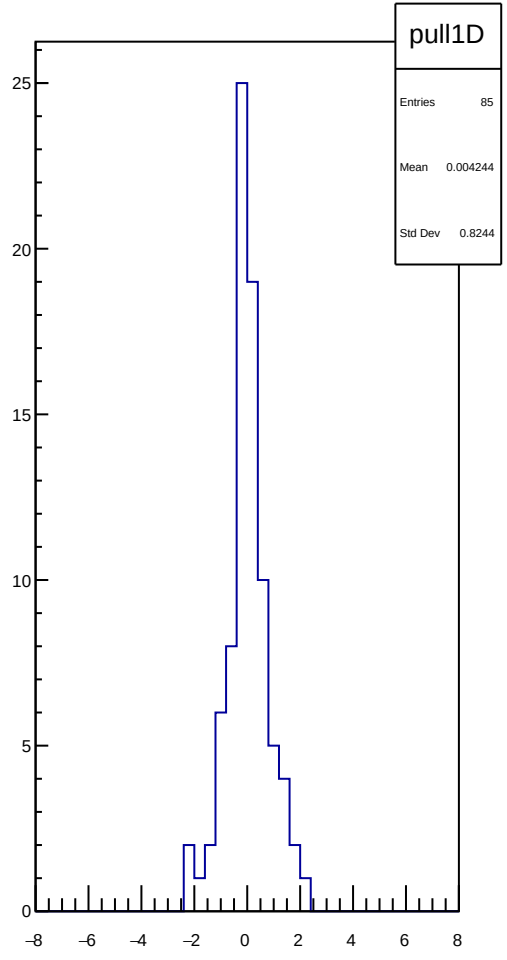

eigen_dit_asym_at1_avg_rms vs run
$\chi^2$ / ndf 76.46 / 84
p0 1808 ± 1.411
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

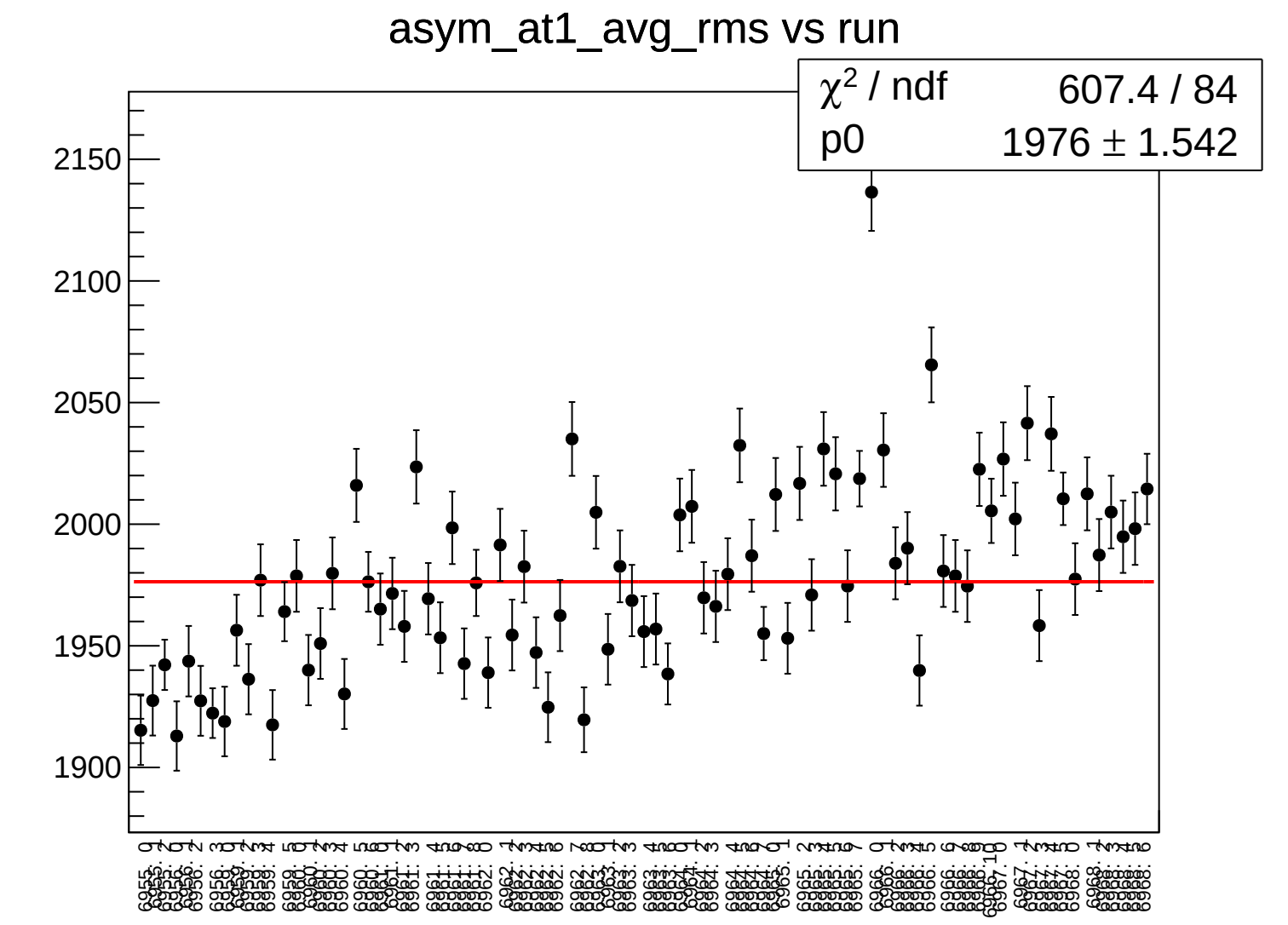

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.34 / 84
p0 −331.8 ± 880.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 84.83
Std Dev 39.37
2
1
0
−1
−2

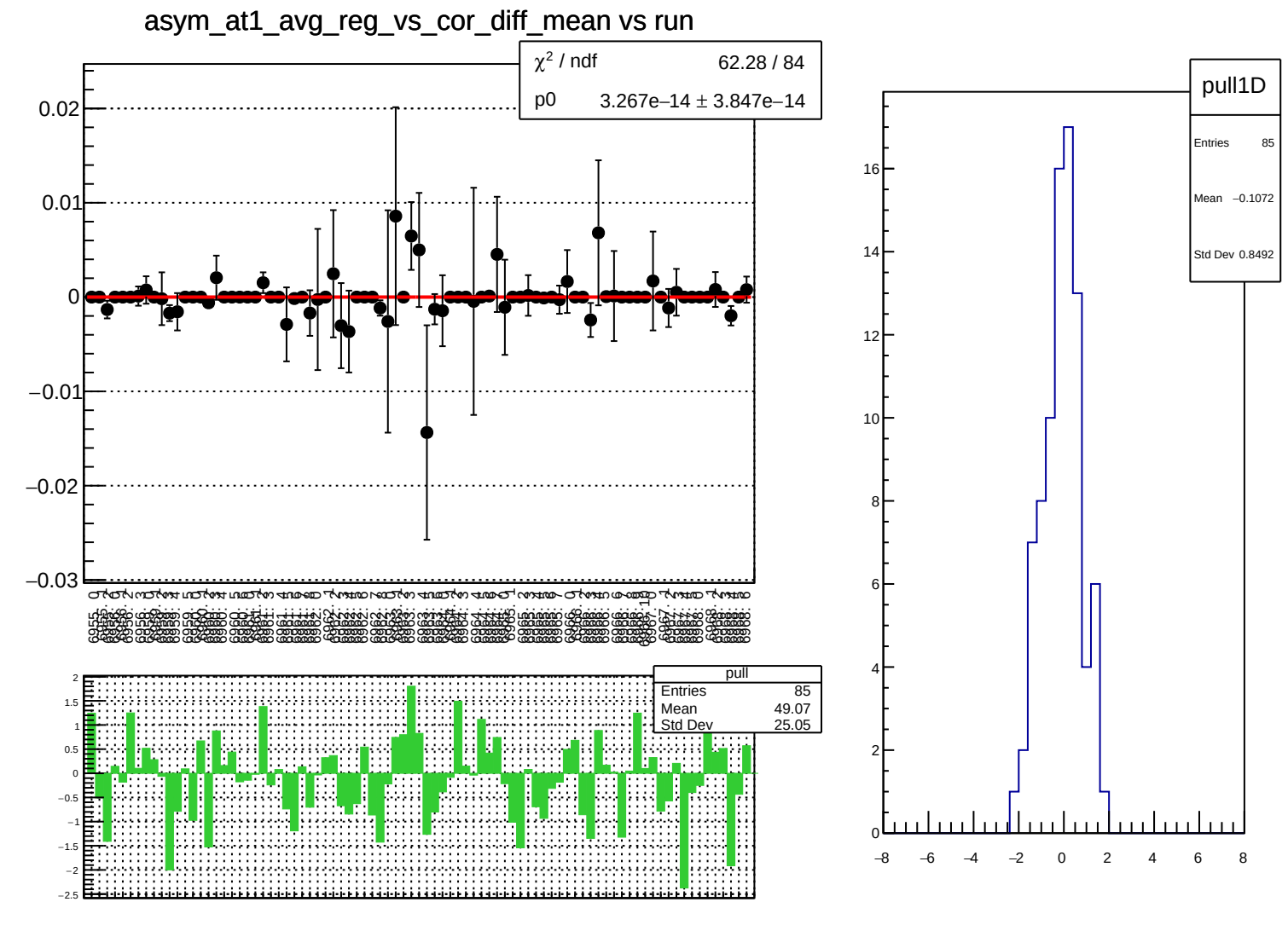

pull1D
Entries 85
Mean −0.01558
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

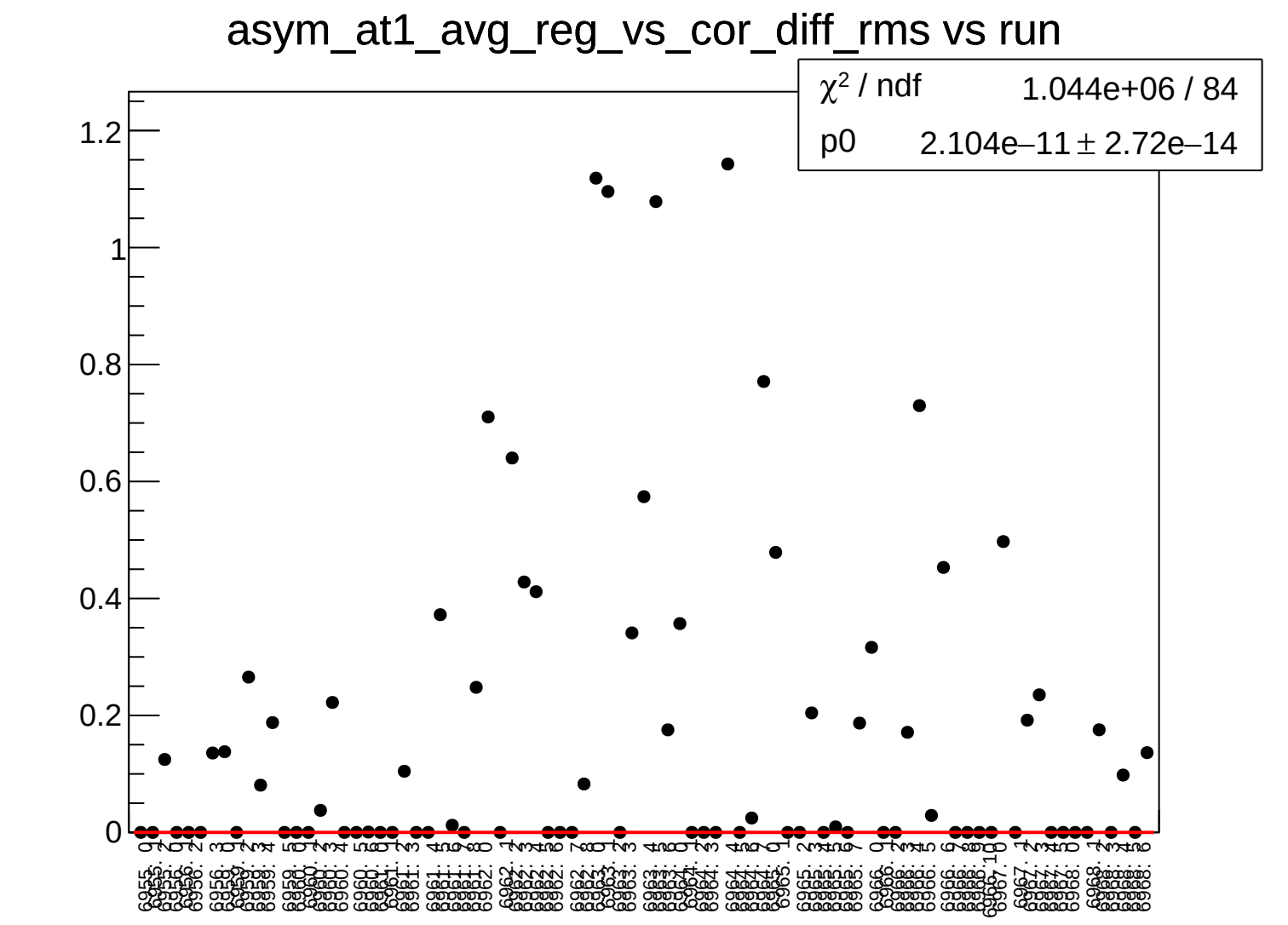

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.15e+04 / 84
p0 795.1 ± 0.6226
1000
950
900
850
800
750
700
650

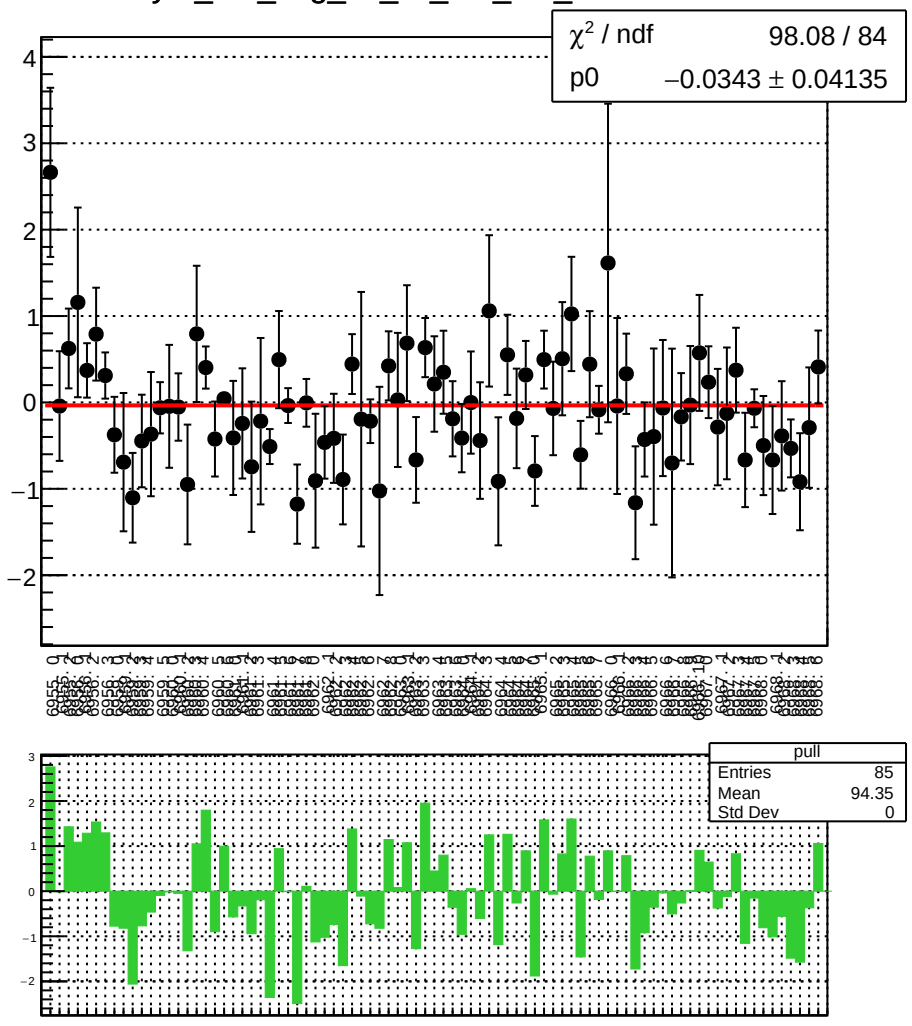

asym_at1_avg_mean vs run
χ² / ndf 57.77 / 84
p0 643.1 ± 2181
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −556.9
Std Dev 0
2
1
0
−1
−2

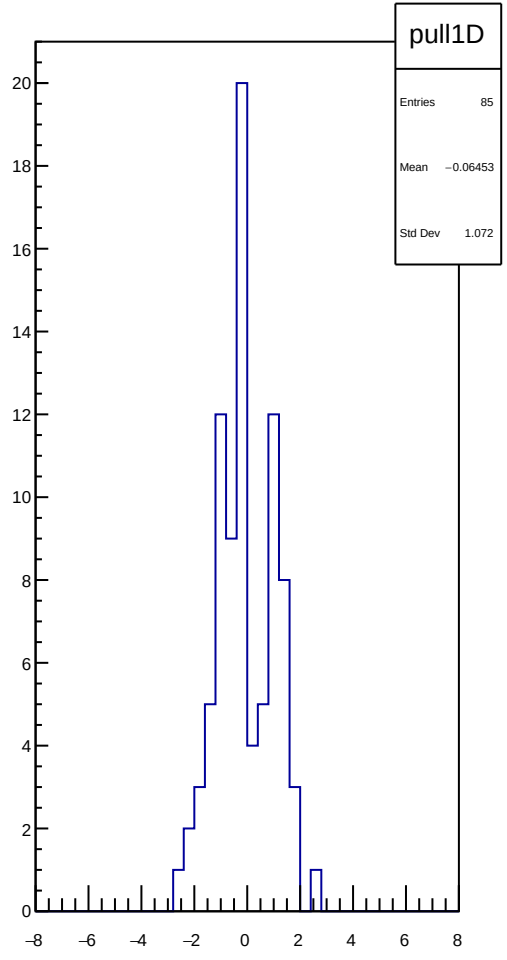

pull1D
Entries 85
Mean 0.004244
Std Dev 0.8244
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

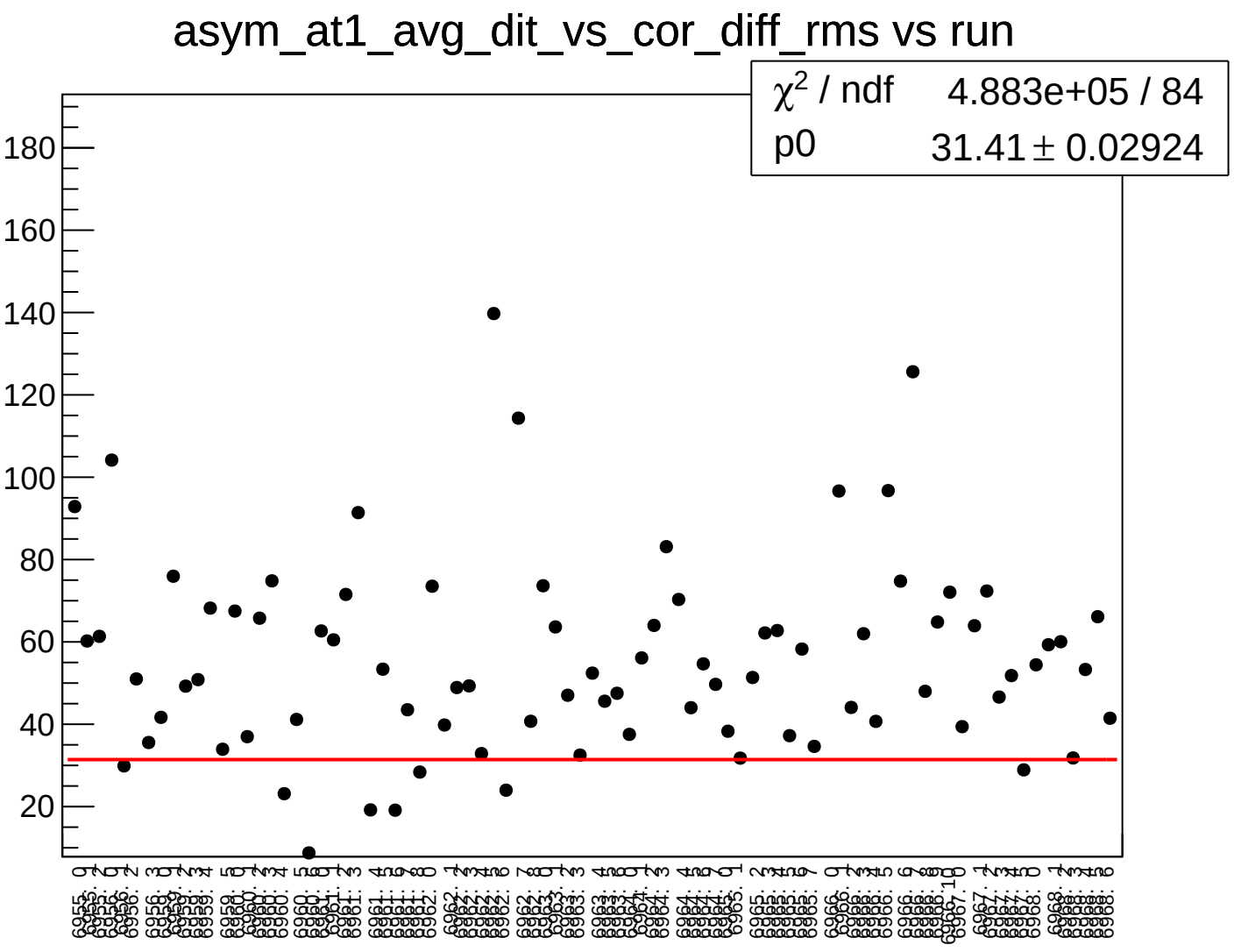

asym_at1_avg_rms vs run
$\chi^2$ / ndf 607.4 / 84
p0 1976 ± 1.542
2150
2100
2050
2000
1950
1900

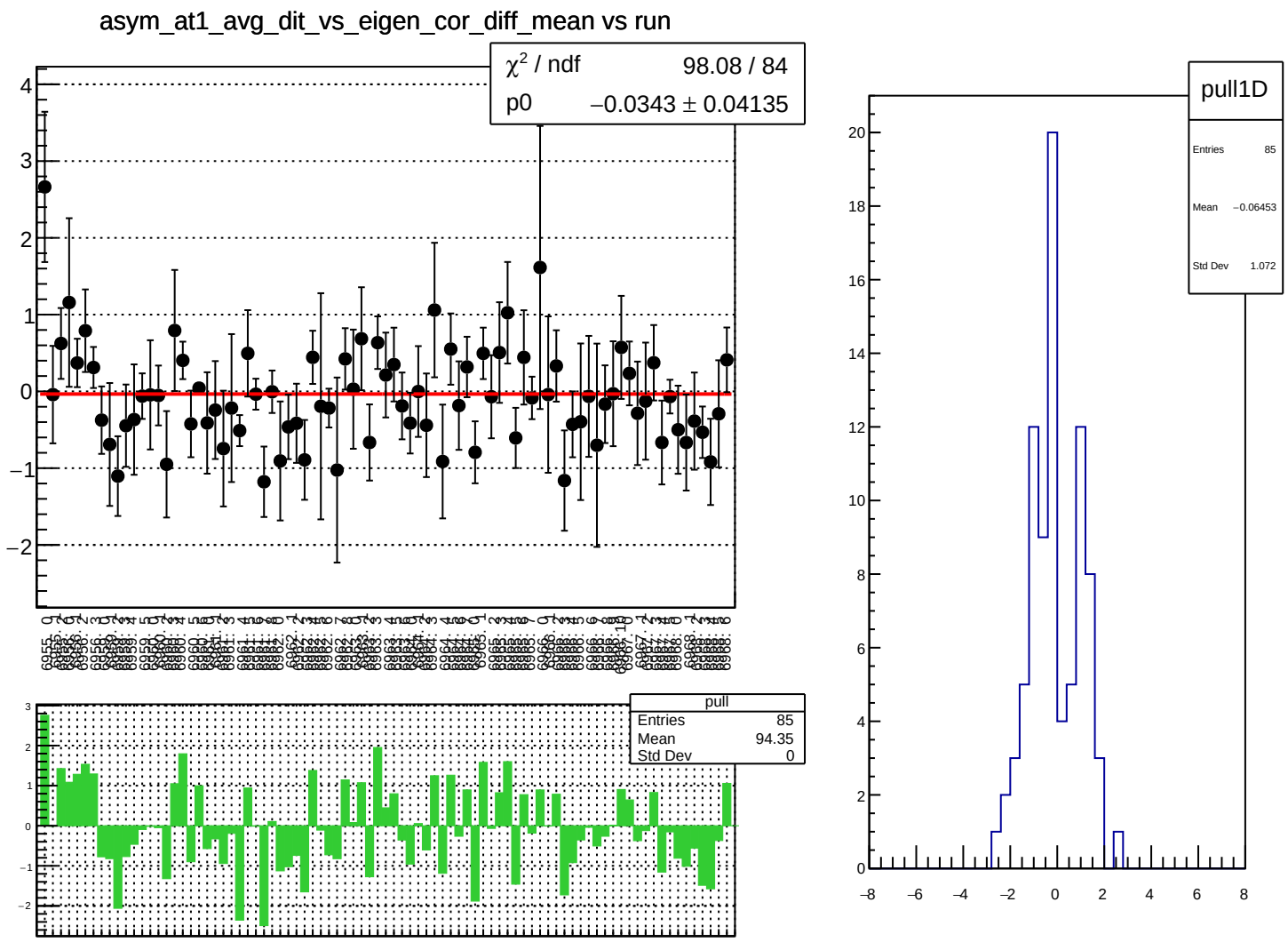

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.28 / 84
p0 3.267e−14 ± 3.847e−14
pull
Entries 85
Mean 49.07
Std Dev 25.05
pull1D
Entries 85
Mean −0.1072
Std Dev 0.8492

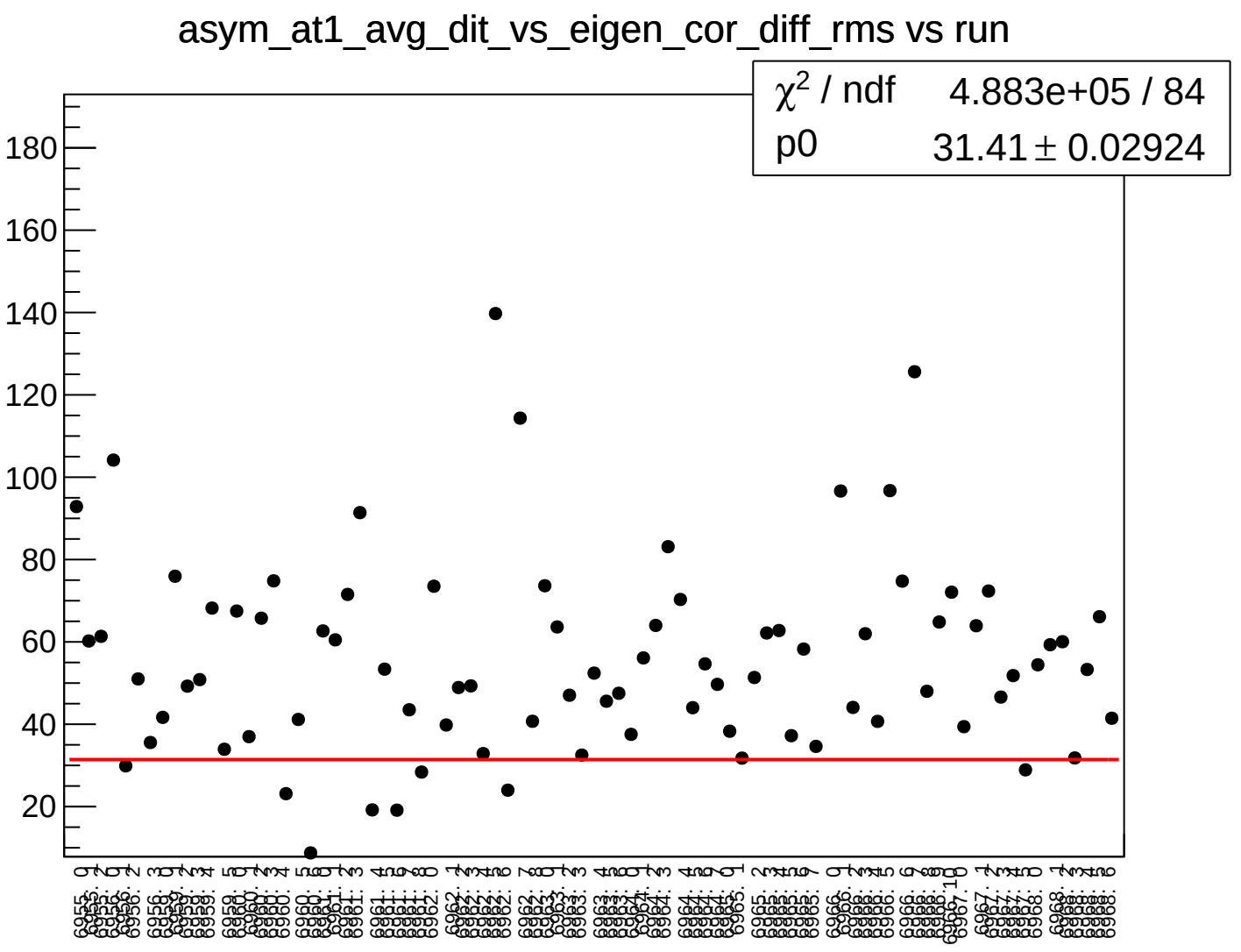

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.044e+06 / 84
p0 2.104e−11 ± 2.72e−14
1.2
1
0.8
0.6
0.4
0.2
0

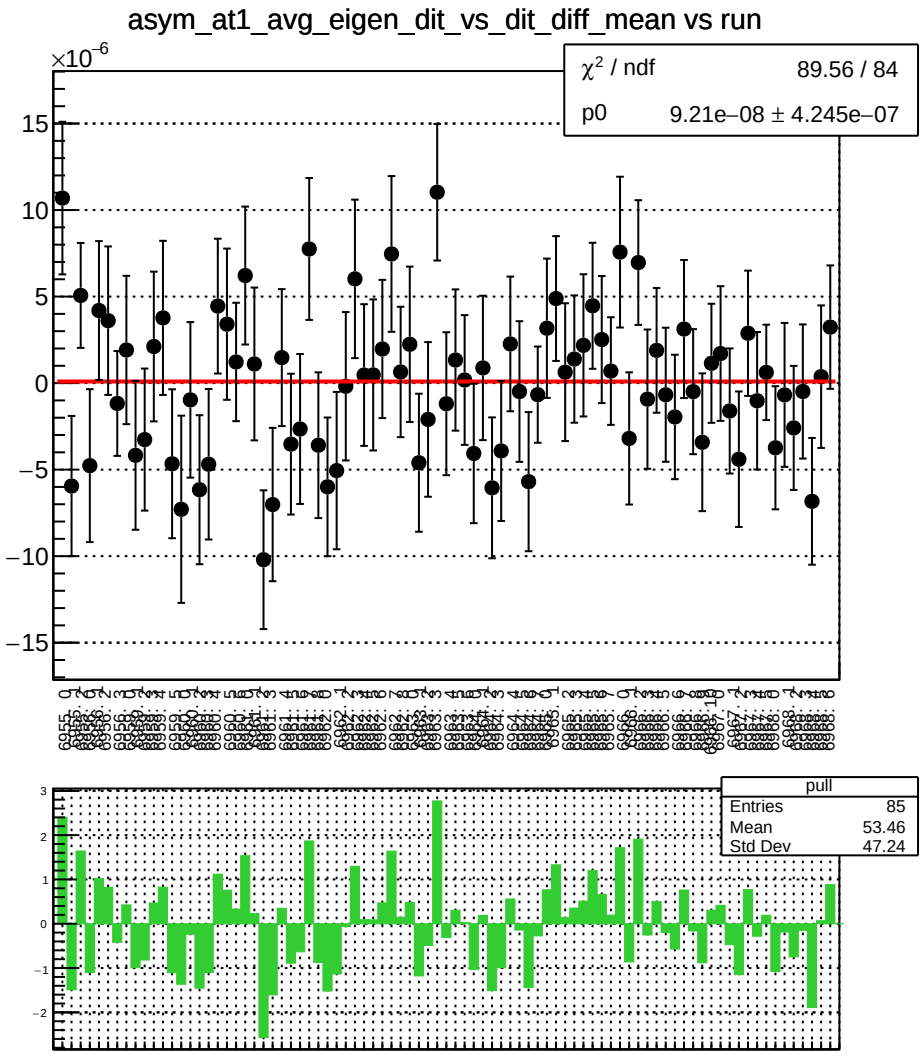

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.08 / 84
p0 −0.0343 ± 0.04135
pull
Entries 85
Mean 94.35
Std Dev 0

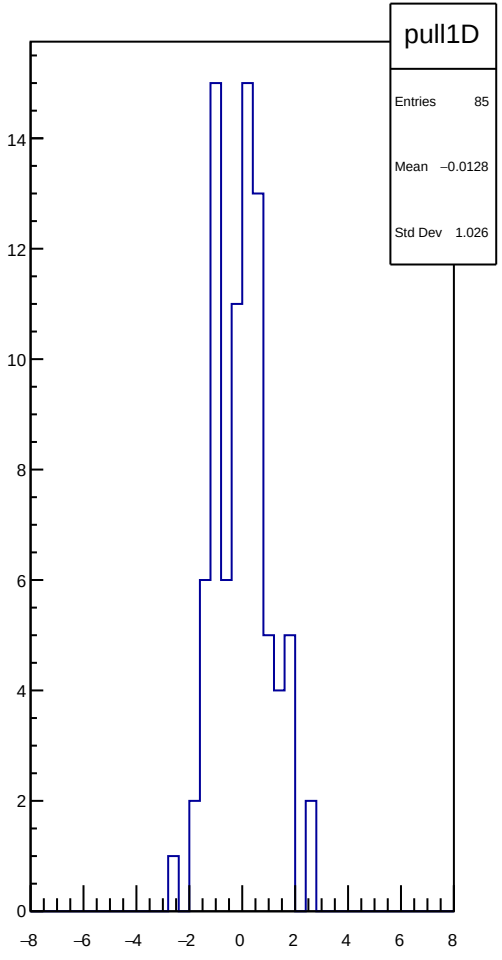

pull1D
Entries 85
Mean −0.06453
Std Dev 1.072

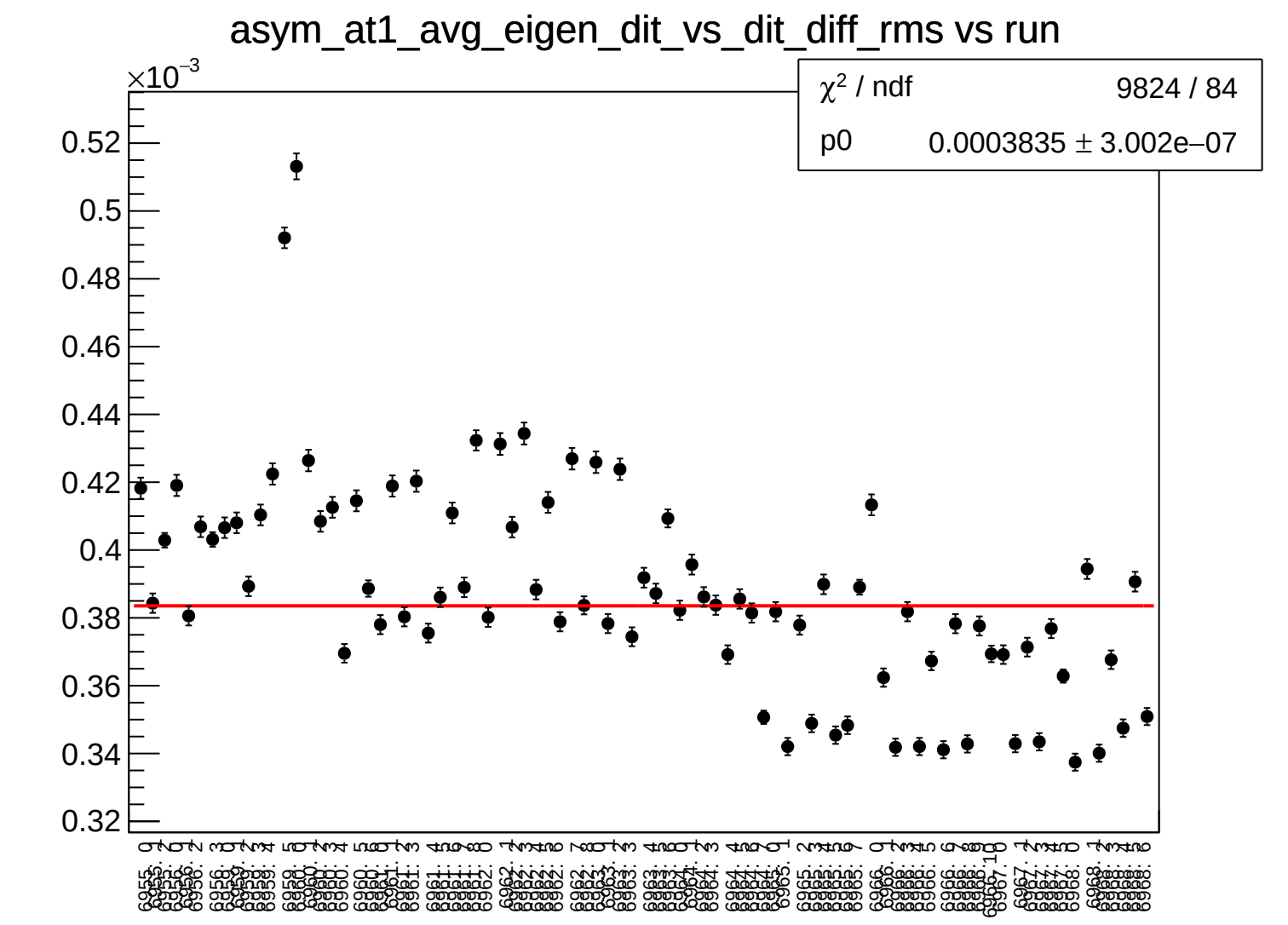

asym_at1_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.883e+05 / 84
p0 31.41 ± 0.02924
180
160
140
120
100
80
60
40
20

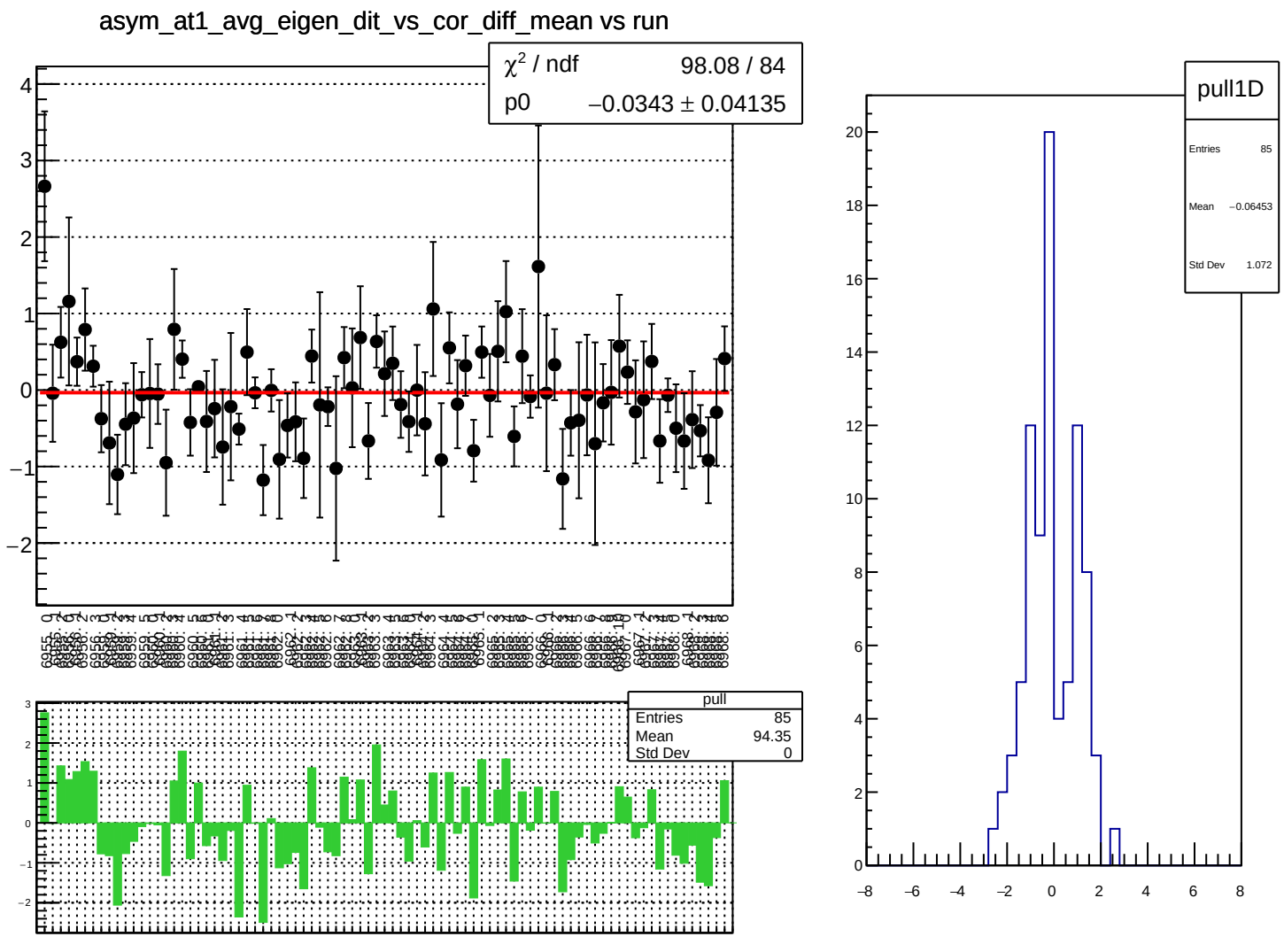

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.08 / 84
p0 −0.0343 ± 0.04135
pull
Entries 85
Mean 94.35
Std Dev 0
pull1D
Entries 85
Mean −0.06453
Std Dev 1.072

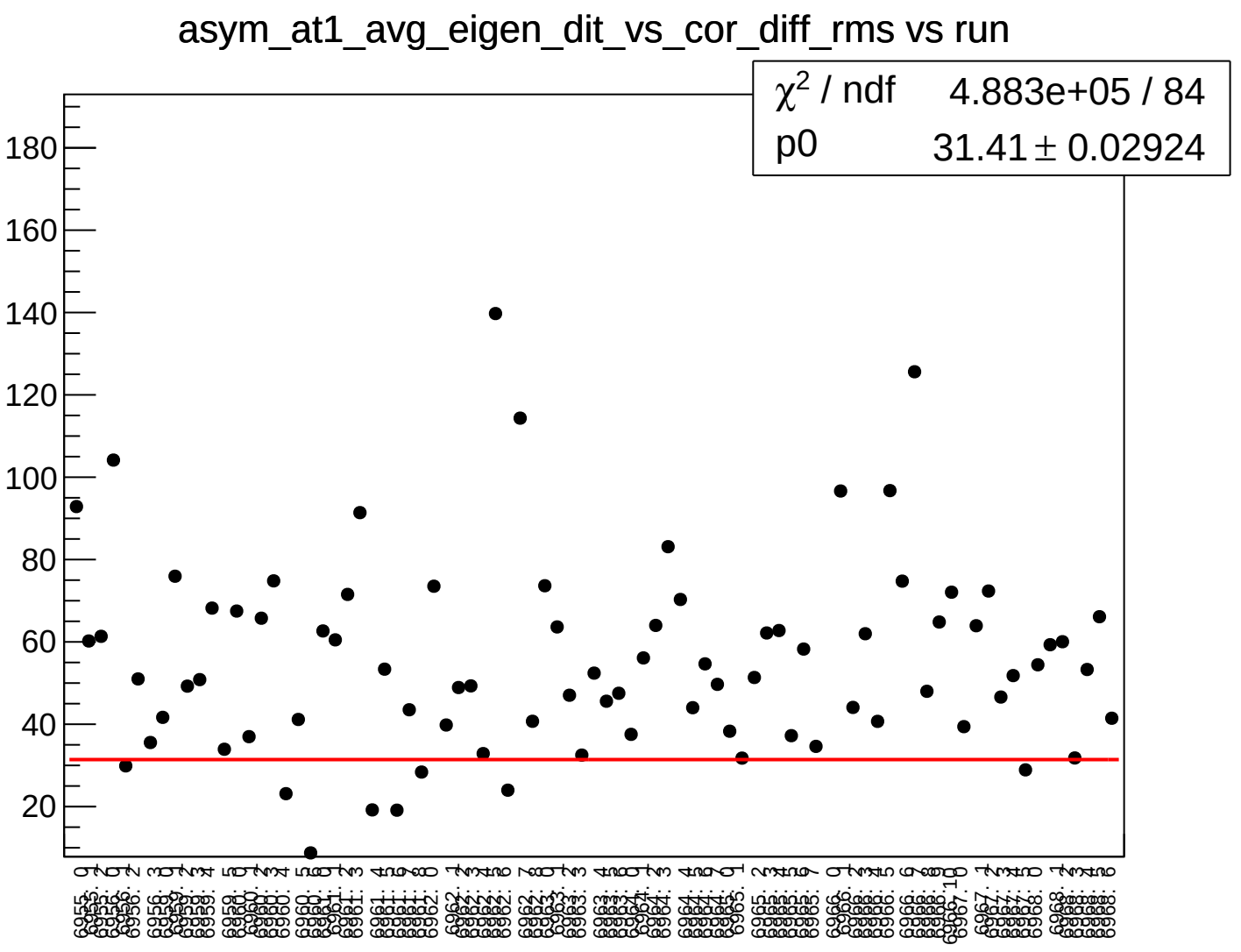

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 4.883e+05 / 84
p0 31.41 ± 0.02924
180
160
140
120
100
80
60
40
20

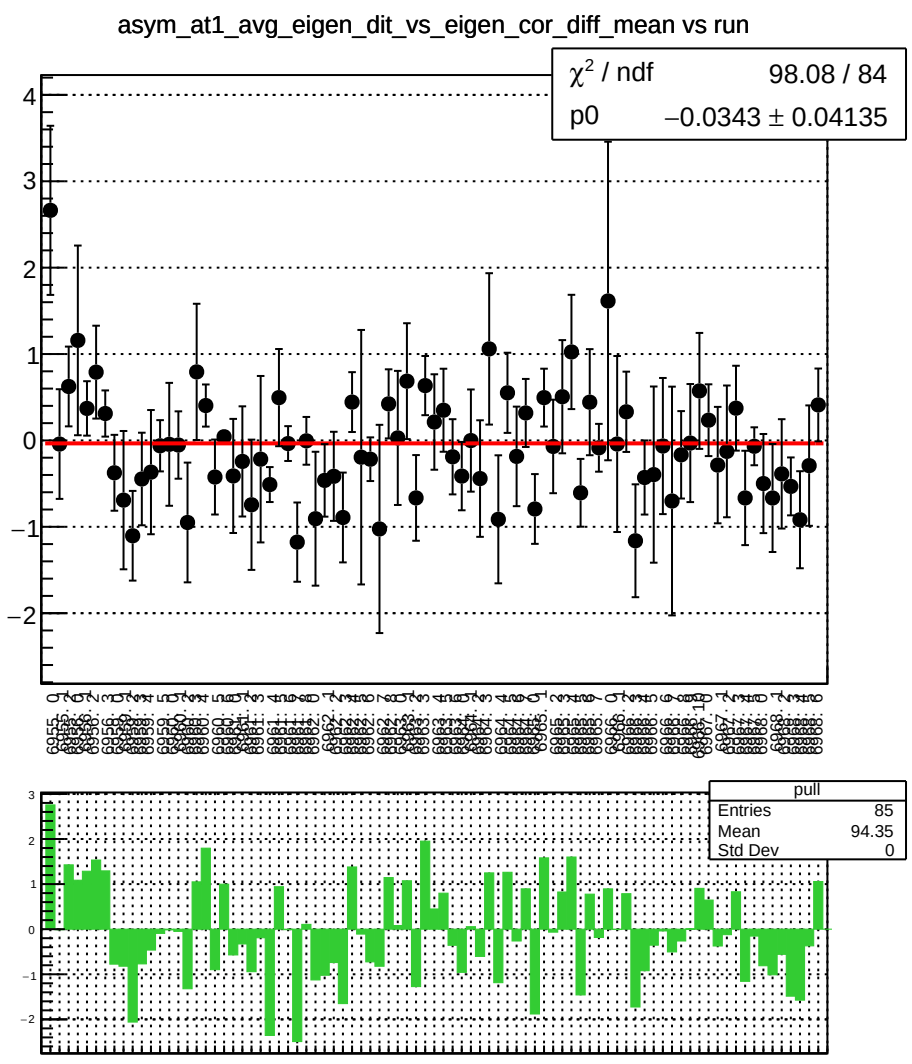

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 89.56 / 84
p0 9.21e−08 ± 4.245e−07
pull
Entries 85
Mean 53.46
Std Dev 47.24

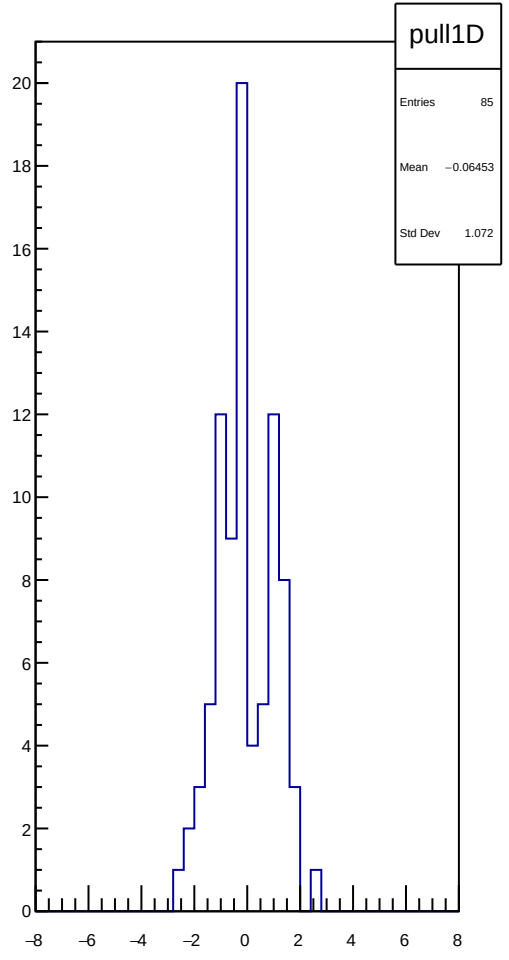

pull1D
Entries 85
Mean −0.0128
Std Dev 1.026

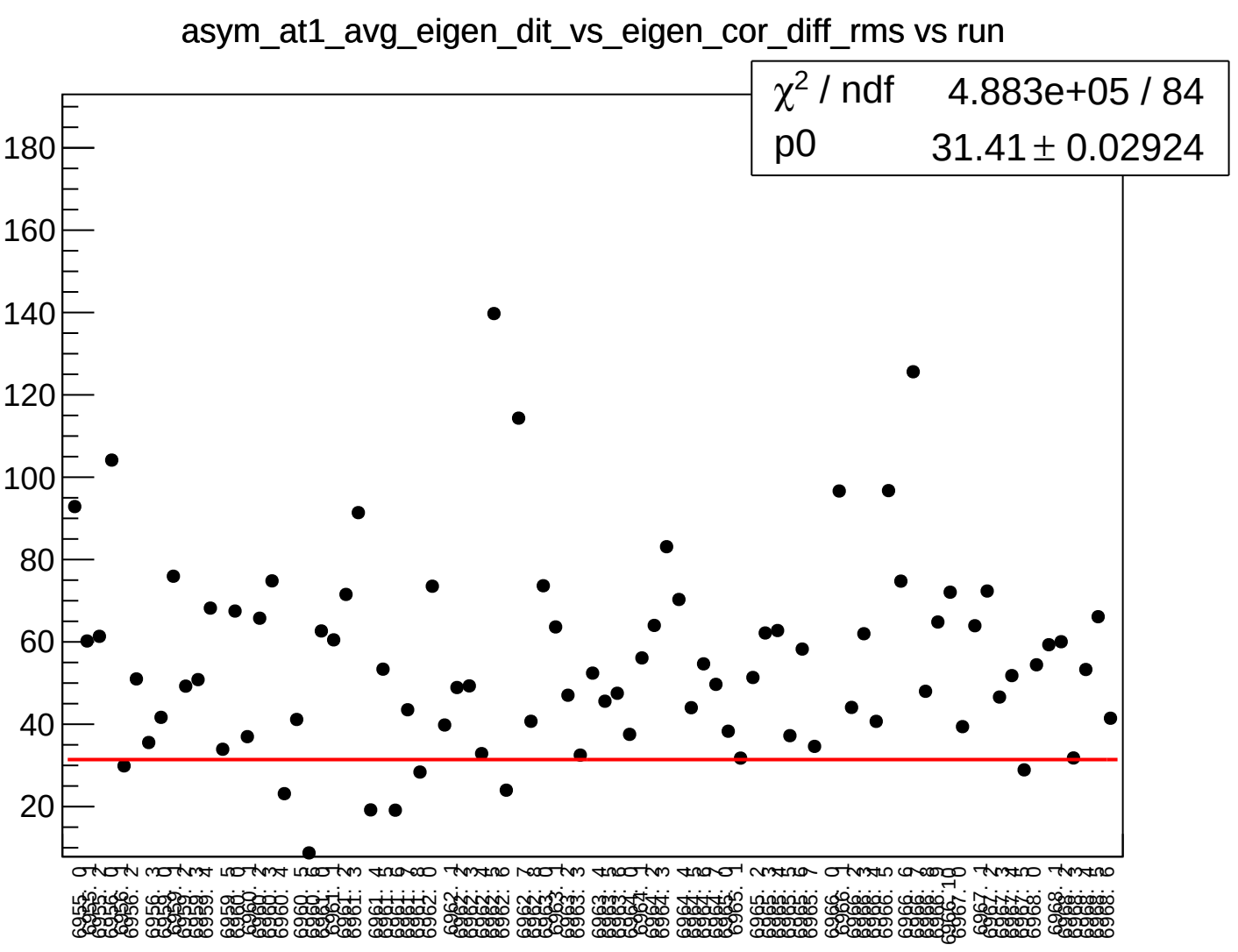

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 9824 / 84
p0 0.0003835 ± 3.002e−07
0.52
0.5
0.48
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32

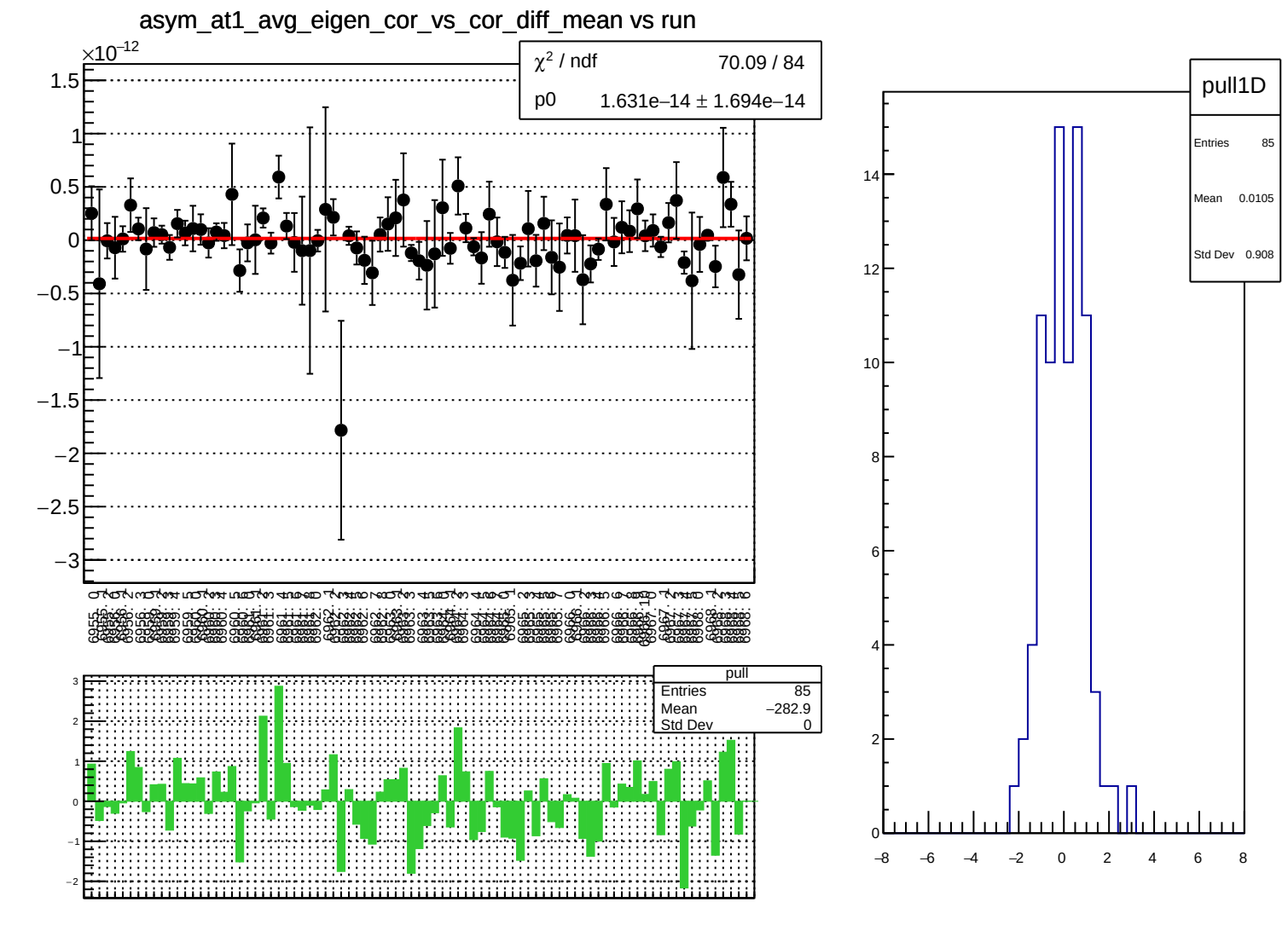

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.08 / 84
p0 −0.0343 ± 0.04135
pull
Entries 85
Mean 94.35
Std Dev 0
pull1D
Entries 85
Mean −0.06453
Std Dev 1.072

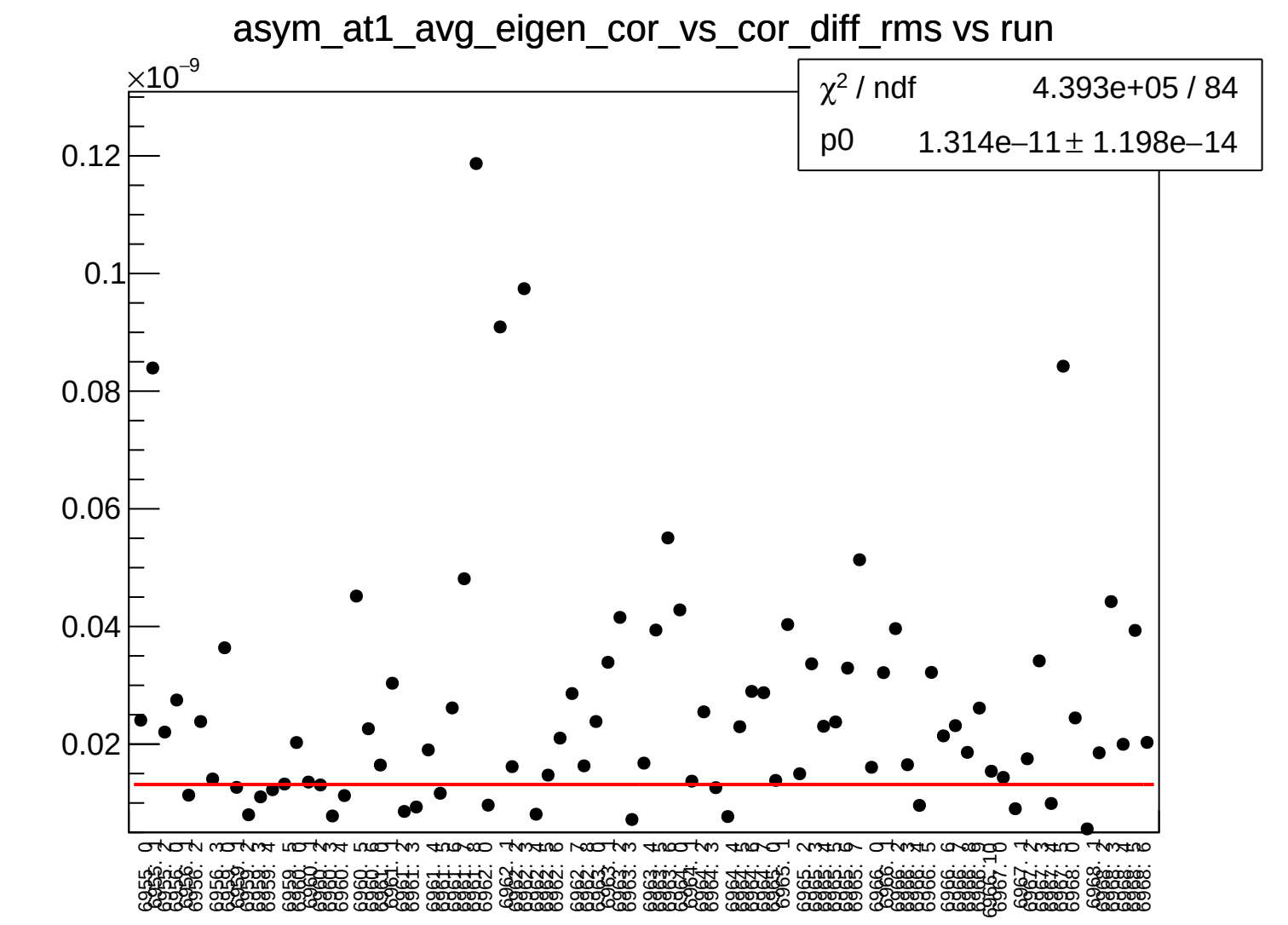

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.883e+05 / 84
p0 31.41 ± 0.02924
180
160
140
120
100
80
60
40
20

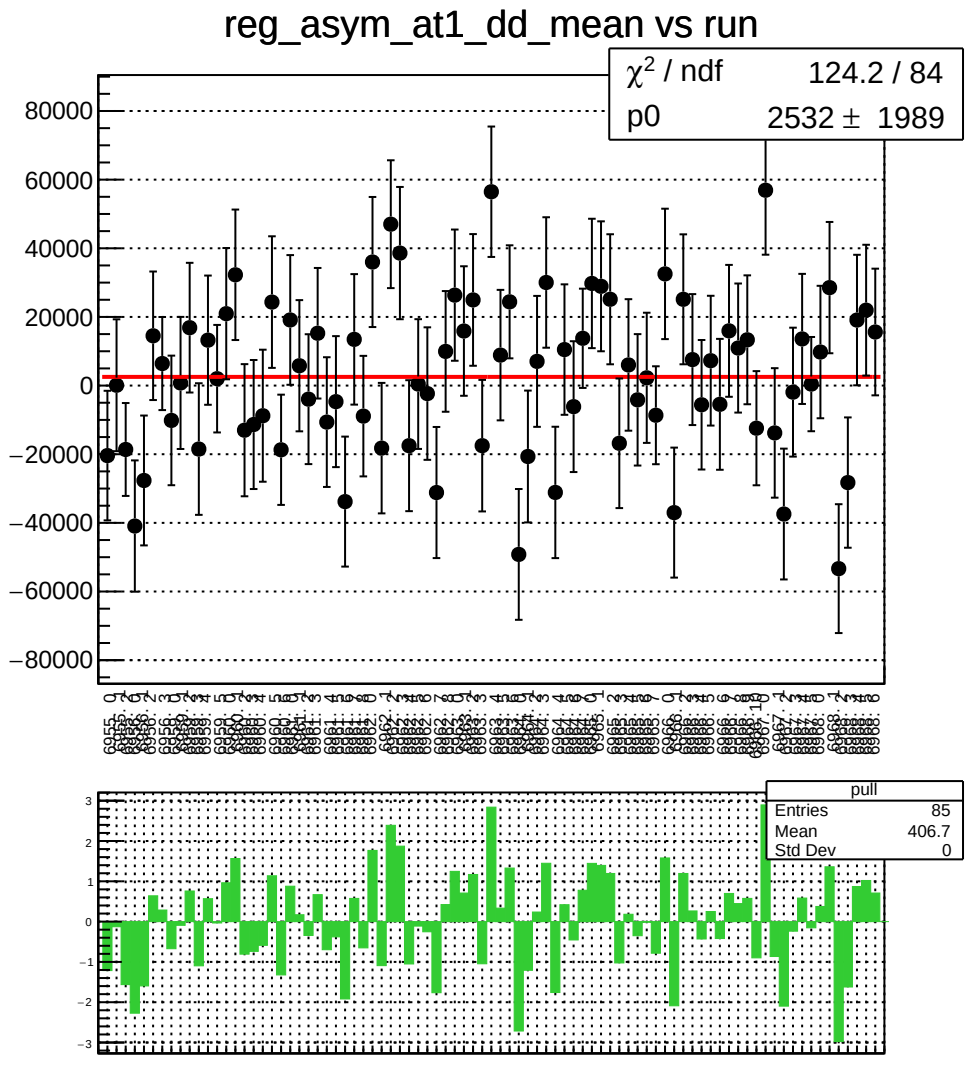

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.08 / 84
p0 −0.0343 ± 0.04135
pull
Entries 85
Mean 94.35
Std Dev 0

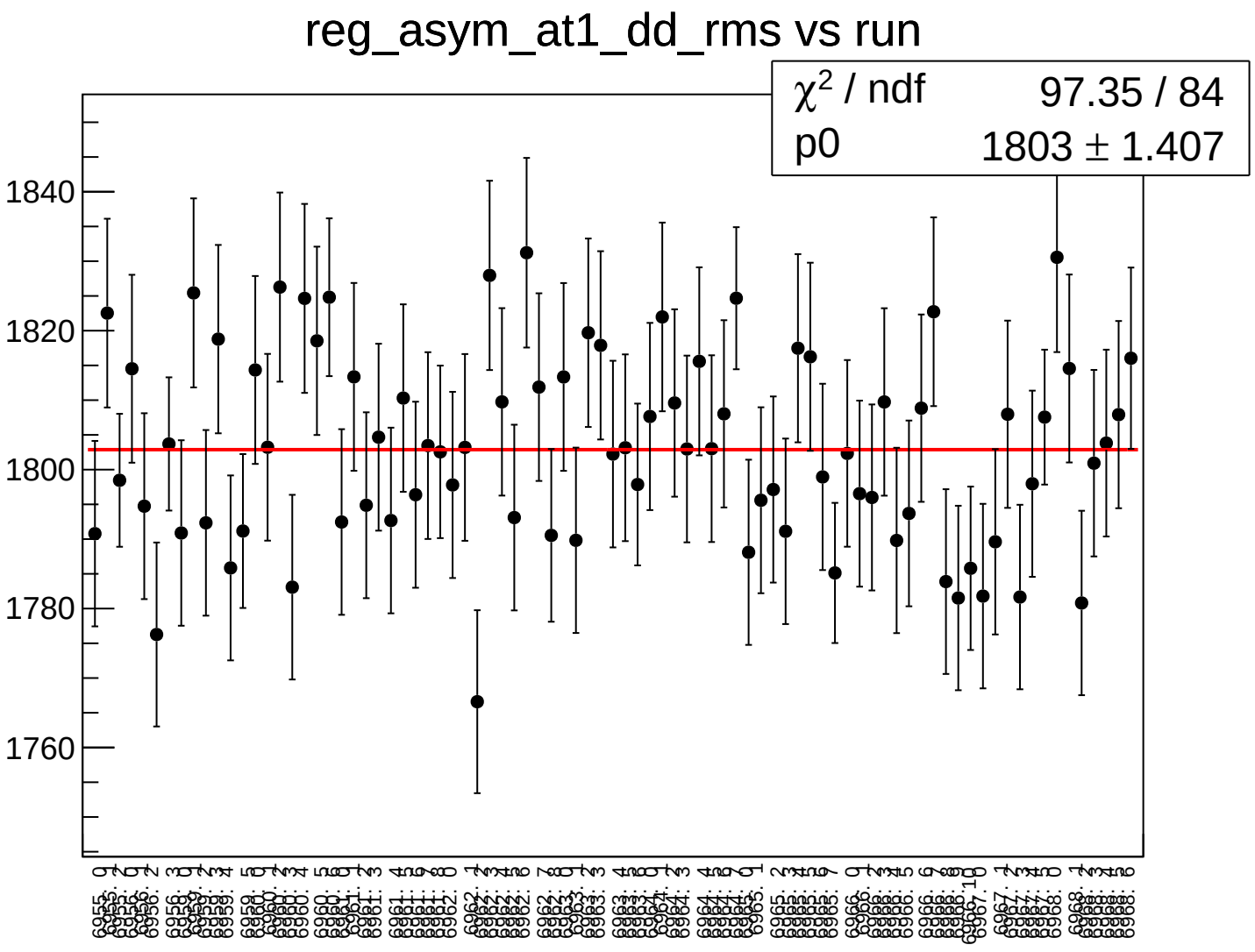

pull1D
Entries 85
Mean −0.06453
Std Dev 1.072

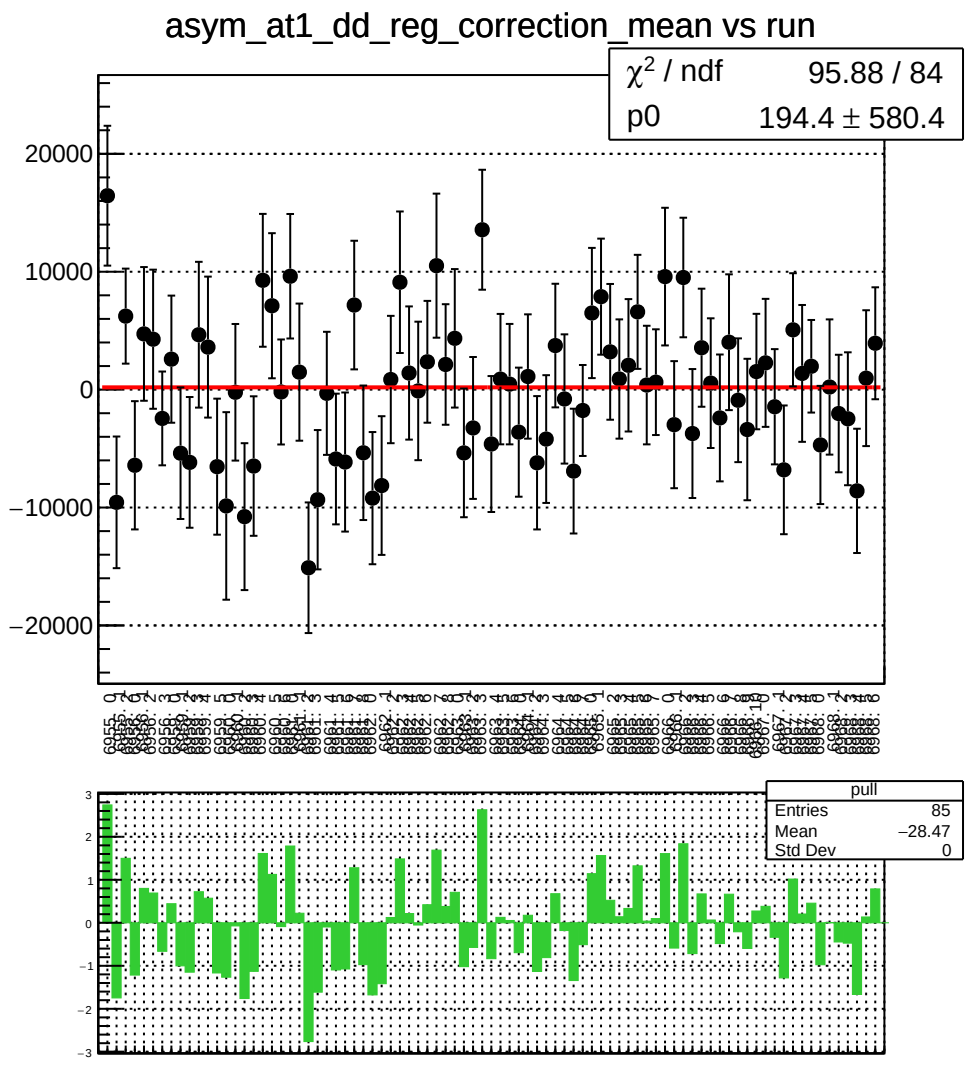

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.883e+05 / 84
p0 31.41 ± 0.02924
180
160
140
120
100
80
60
40
20

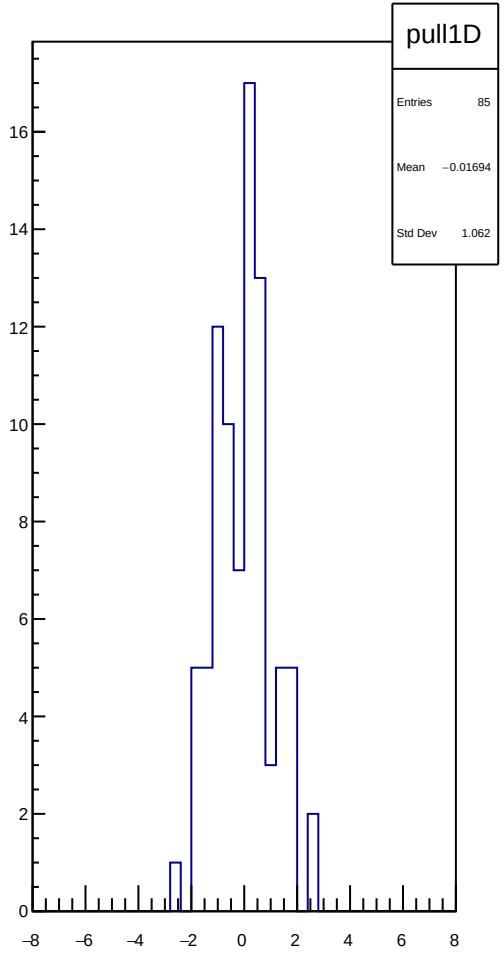

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.09 / 84
p0 1.631e−14 ± 1.694e−14
pull
Entries 85
Mean −282.9
Std Dev 0
pull1D
Entries 85
Mean 0.0105
Std Dev 0.908

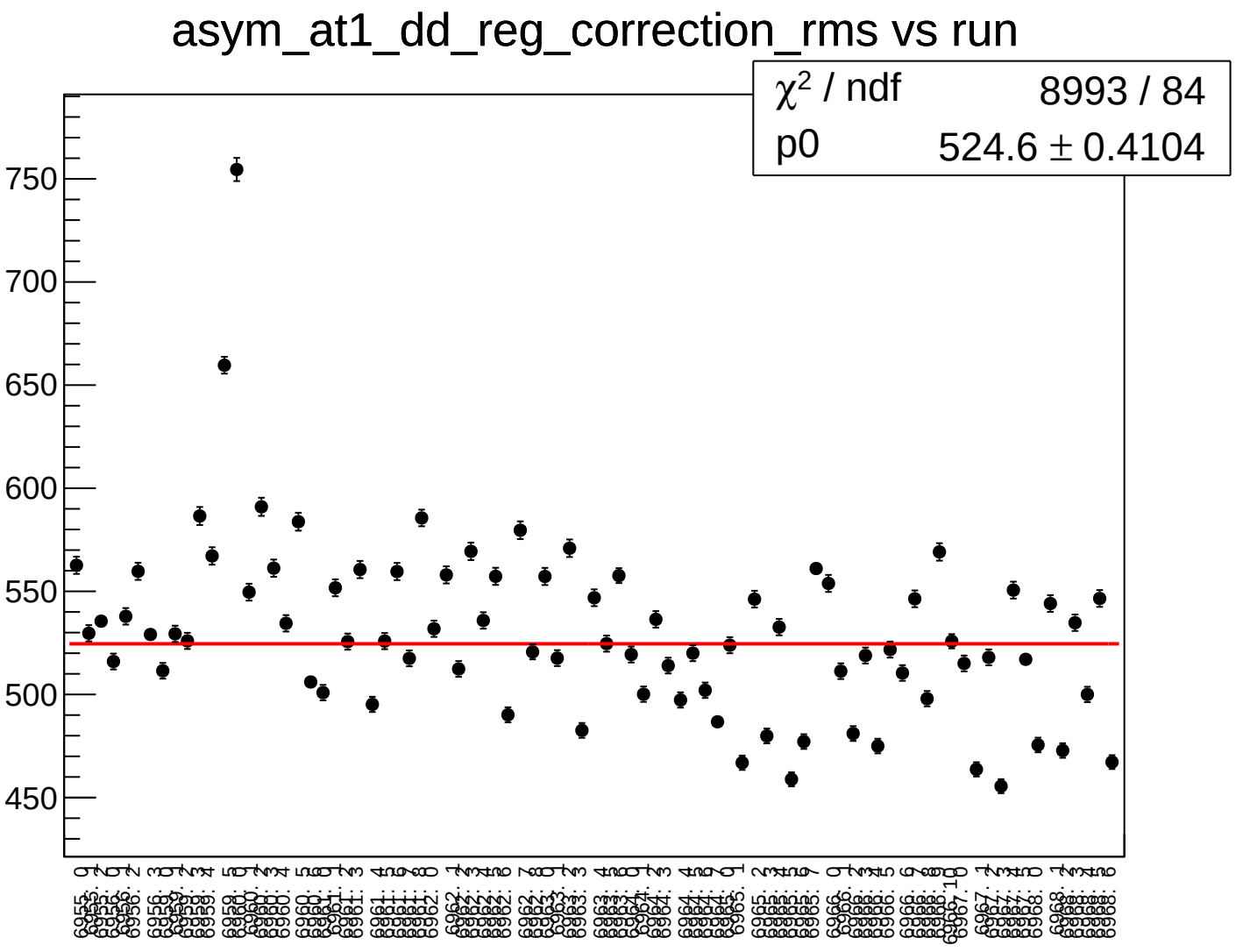

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.393e+05 / 84
p0 1.314e−11 ± 1.198e−14
0.12
0.1
0.08
0.06
0.04
0.02

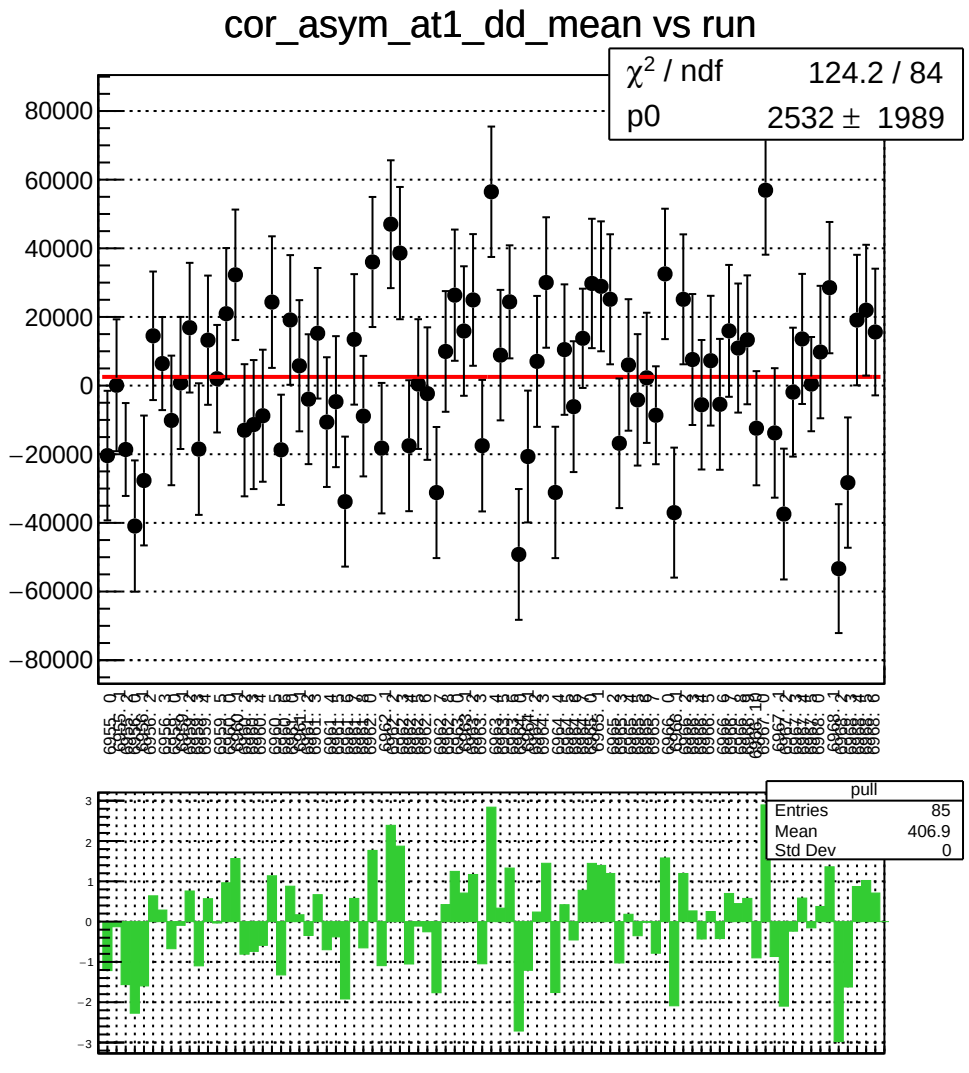

reg_asym_at1_dd_mean vs run
χ² / ndf 124.2 / 84
p0 2532 ± 1989
pull
Entries 85
Mean 406.7
Std Dev 0
pull1D
Entries 85
Mean 0.00806
Std Dev 1.209

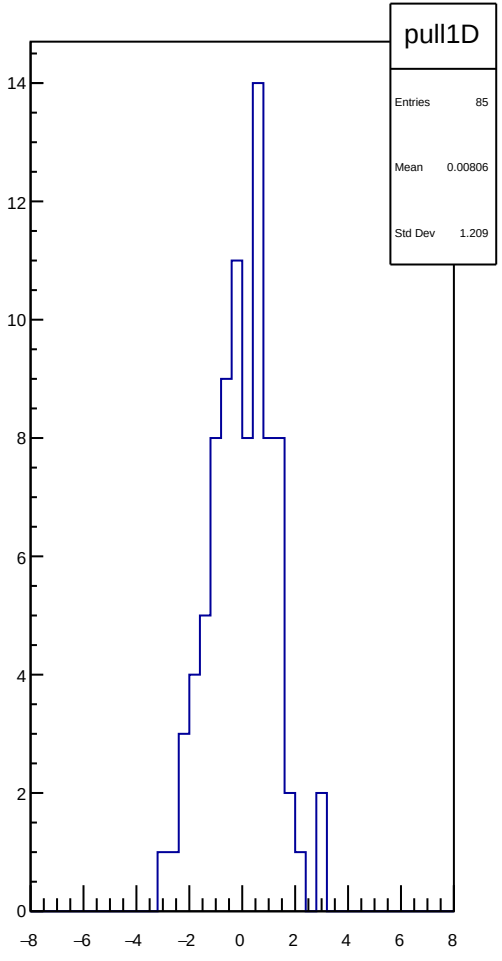

reg_asym_at1_dd_rms vs run
χ² / ndf 97.35 / 84
p0 1803 ± 1.407
1840
1820
1800
1780
1760

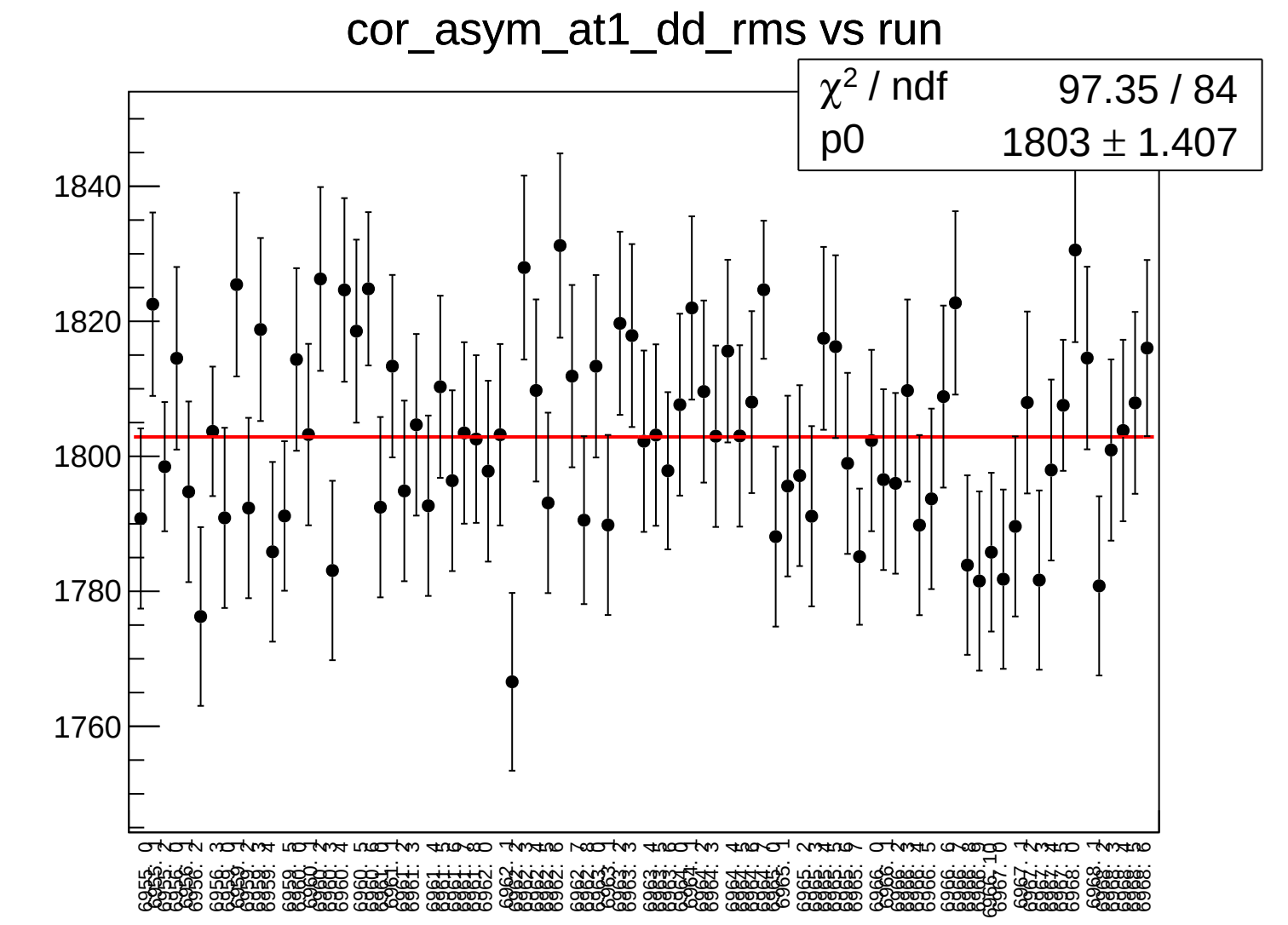

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 95.88 / 84
p0 194.4 ± 580.4
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −28.47
Std Dev 0
3
2
1
0
−1
−2
−3

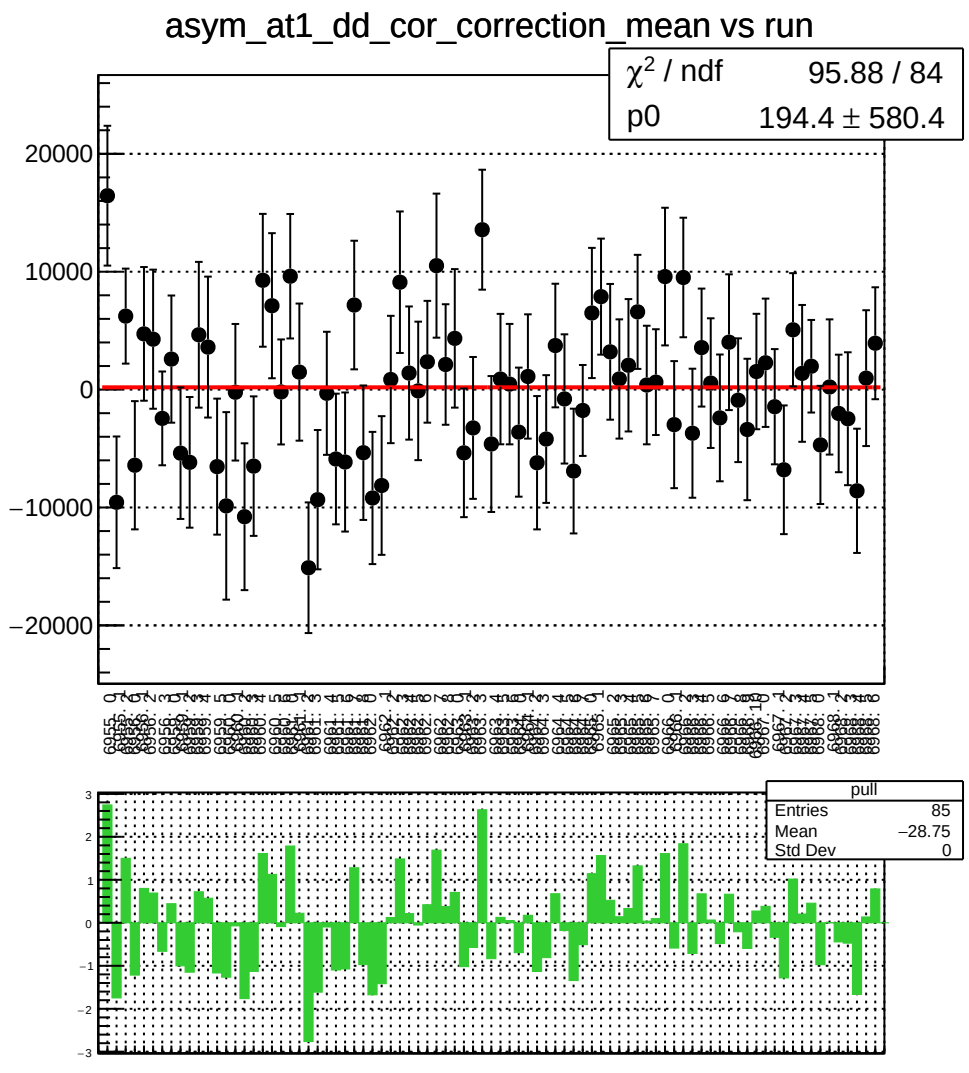

pull1D
Entries 85
Mean −0.01694
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

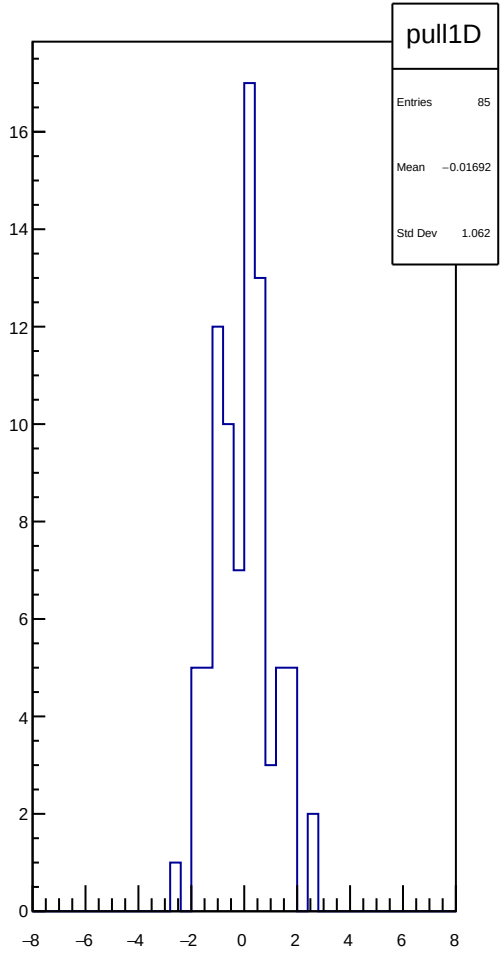

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 8993 / 84
p0 524.6 ± 0.4104
750
700
650
600
550
500
450

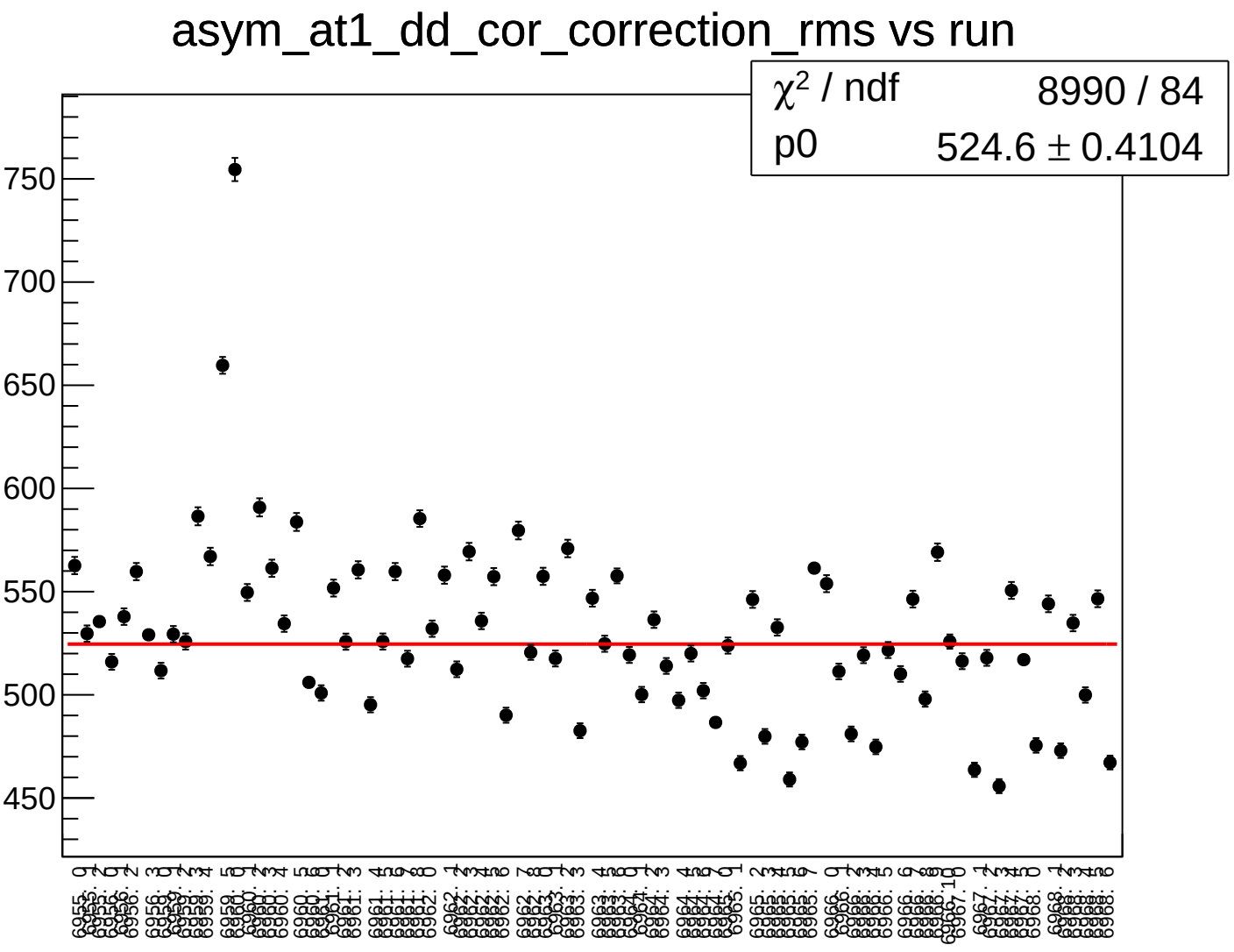

cor_asym_at1_dd_mean vs run
χ² / ndf 124.2 / 84
p0 2532 ± 1989
pull
Entries 85
Mean 406.9
Std Dev 0

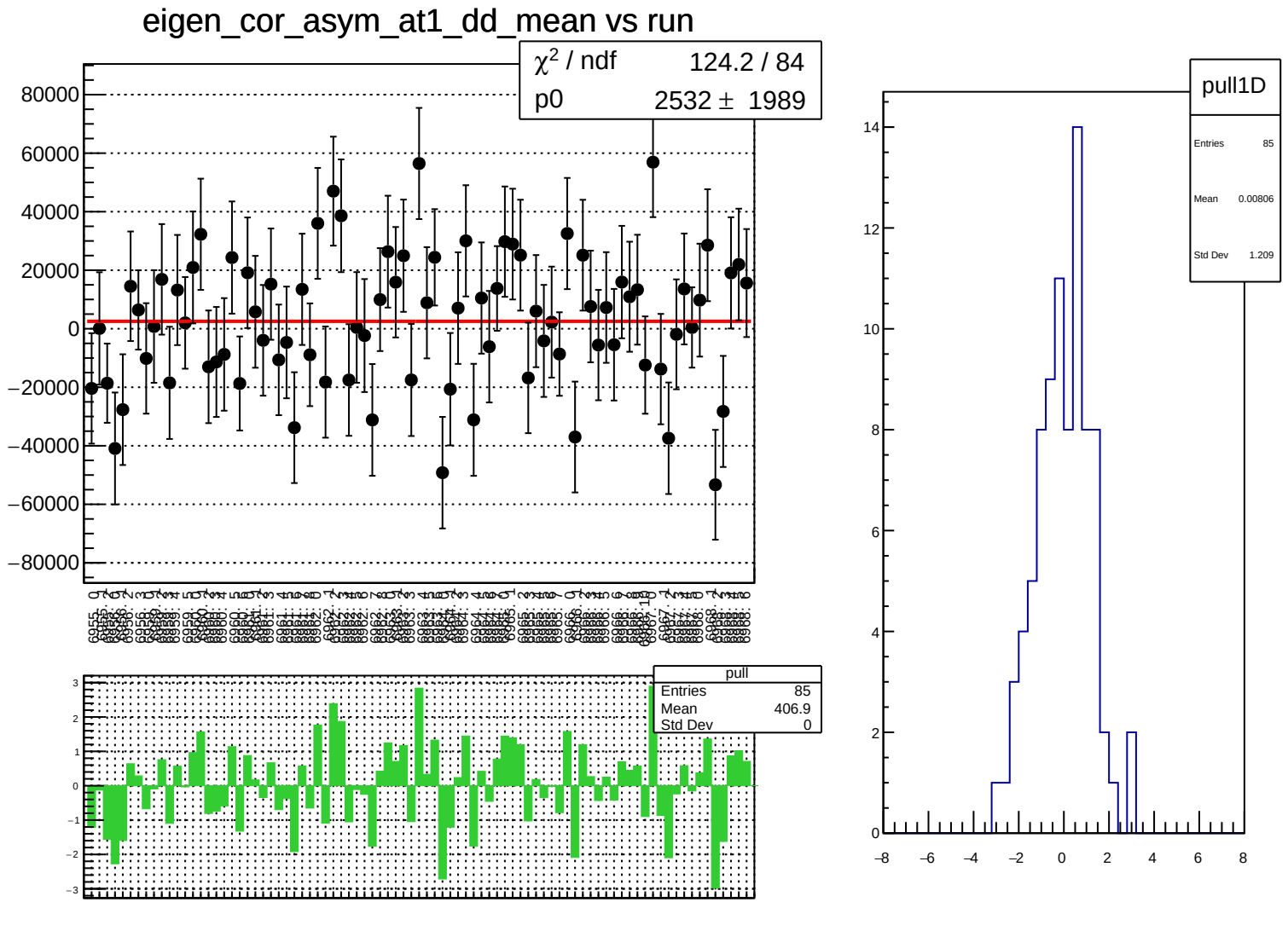

pull1D
Entries 85
Mean 0.00806
Std Dev 1.209

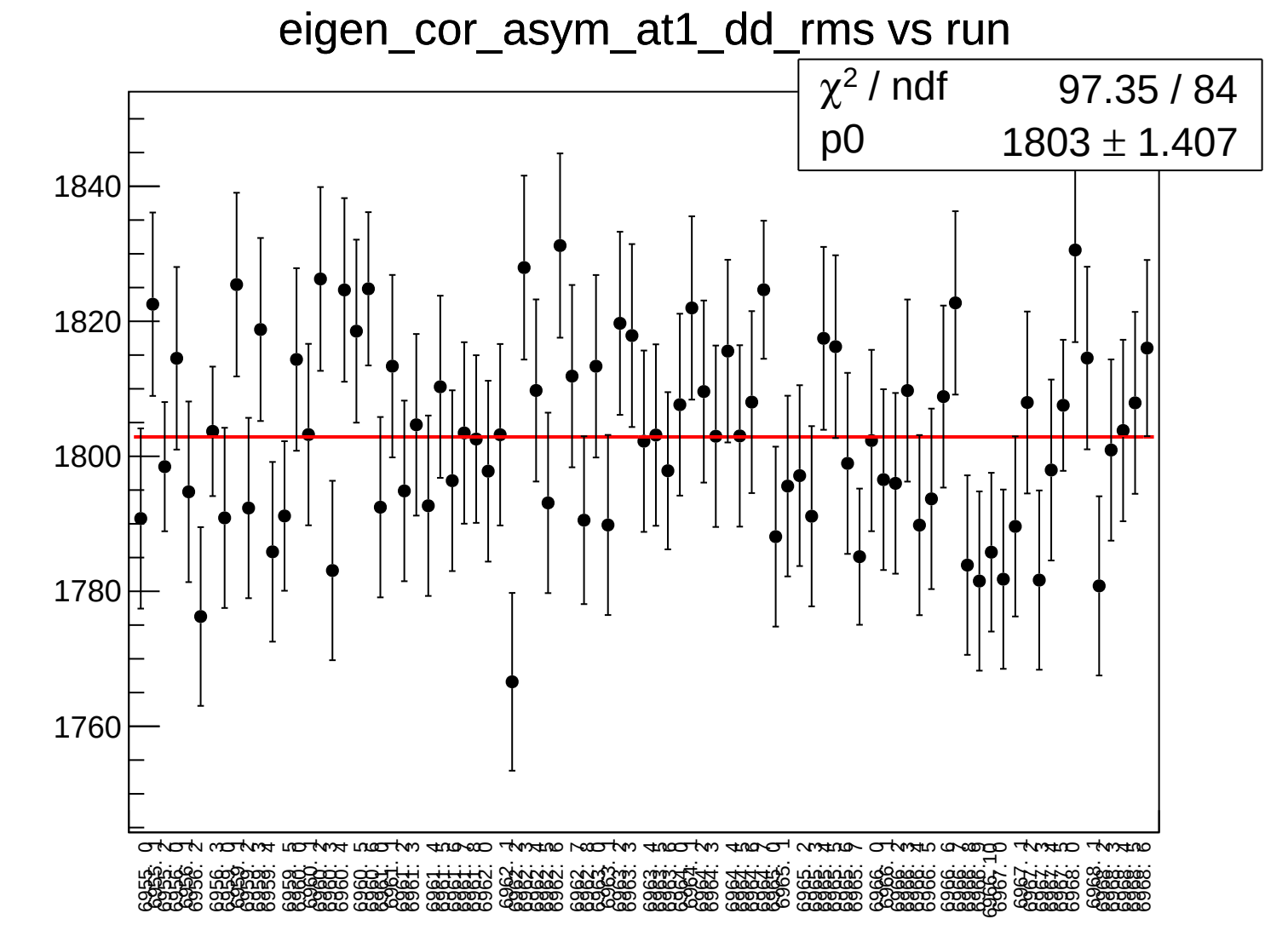

cor_asym_at1_dd_rms vs run
$\chi^2$ / ndf 97.35 / 84
p0 1803 ± 1.407
1840
1820
1800
1780
1760

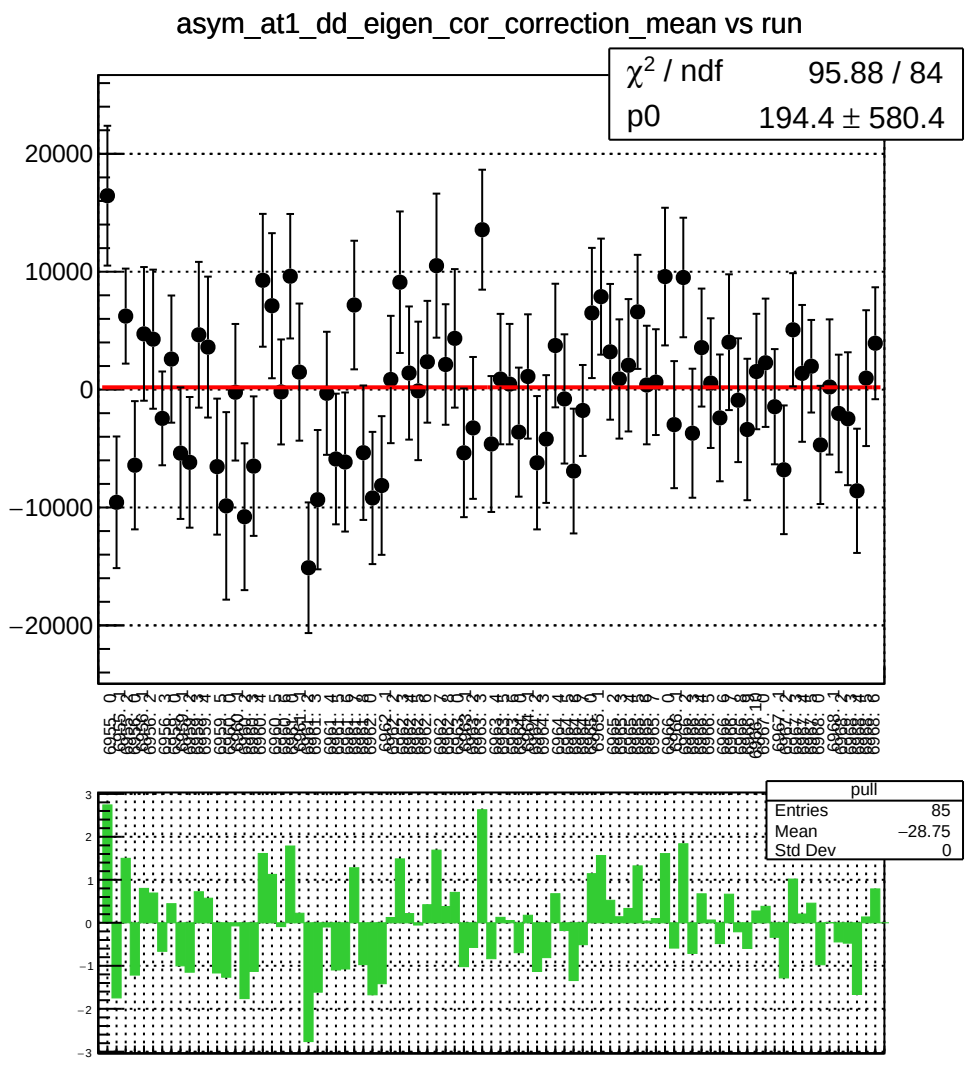

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 95.88 / 84
p0 194.4 ± 580.4
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −28.75
Std Dev 0
3
2
1
0
−1
−2
−3

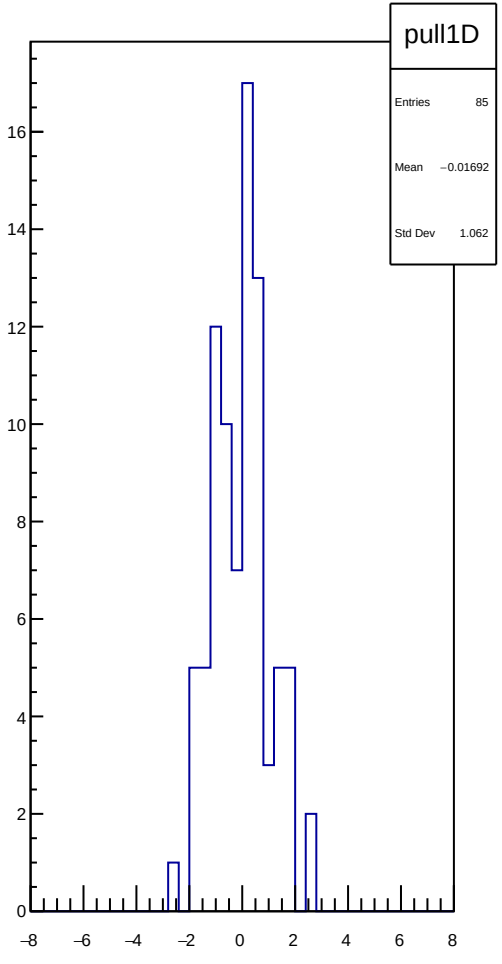

pull1D
Entries 85
Mean −0.01692
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

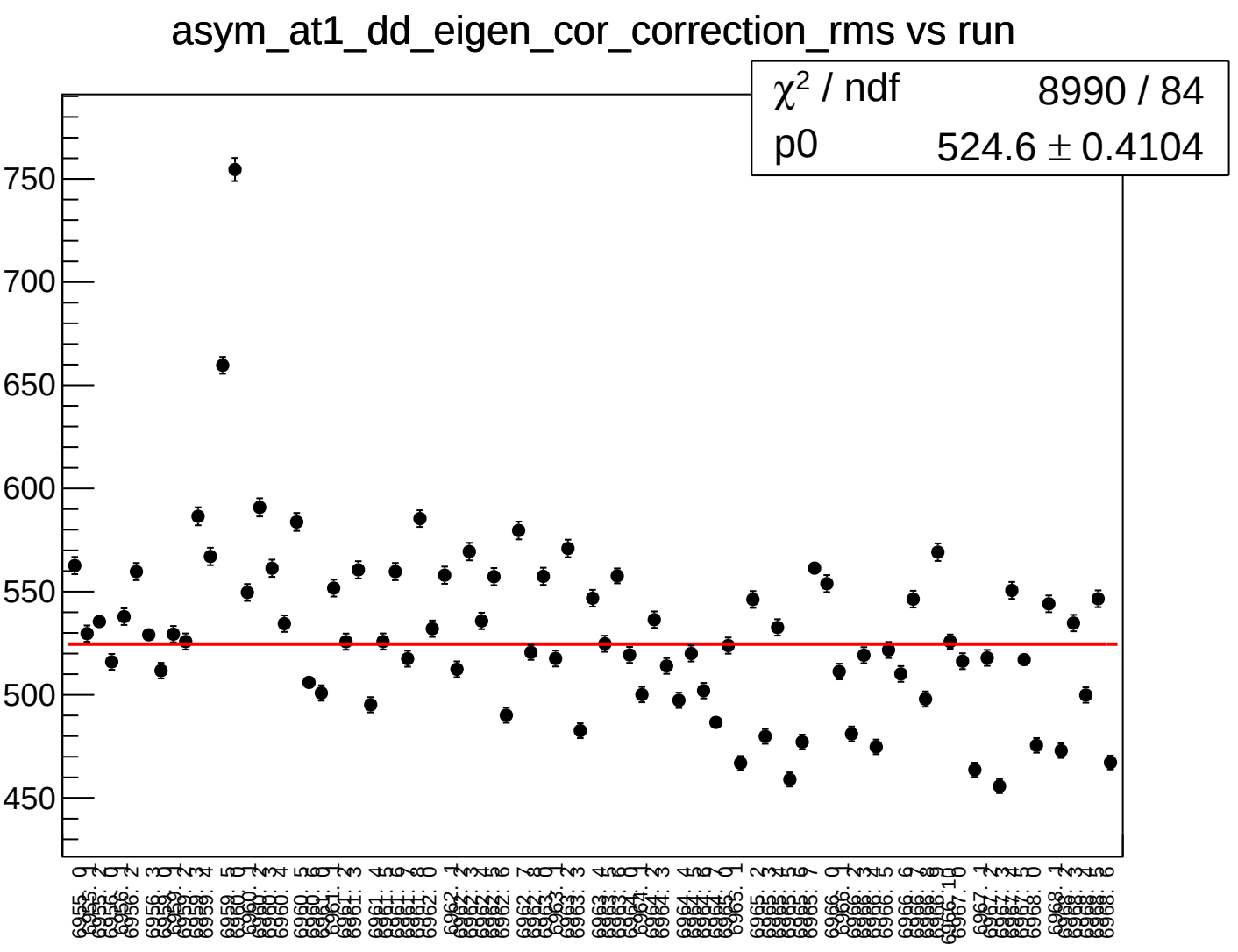

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 8990 / 84
p0 524.6 ± 0.4104
750
700
650
600
550
500
450

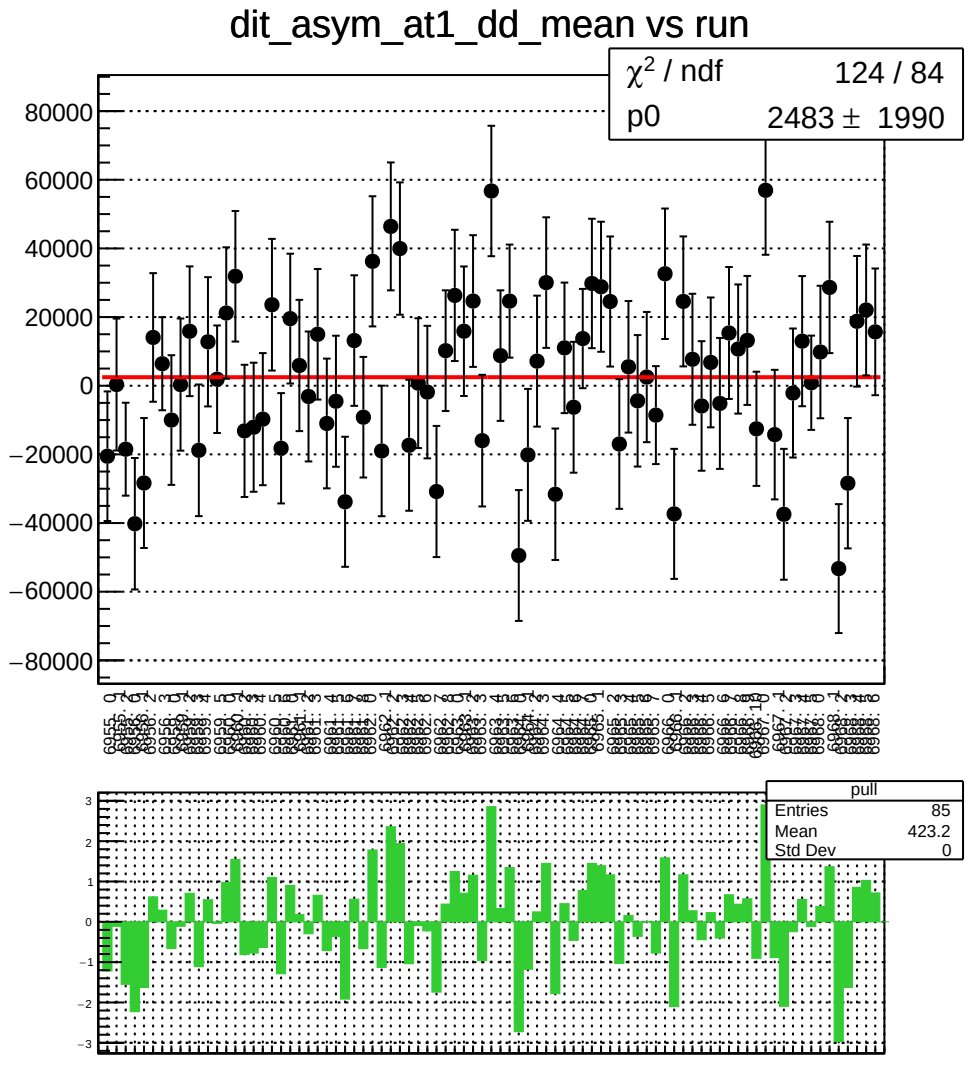

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 124.2 / 84
p0 2532 ± 1989
pull
Entries 85
Mean 406.9
Std Dev 0
pull1D
Entries 85
Mean 0.00806
Std Dev 1.209

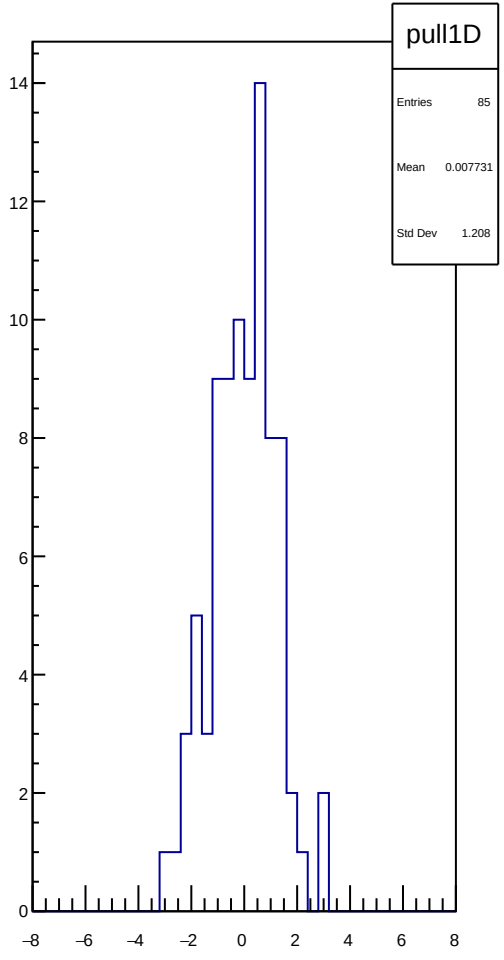

eigen_cor_asym_at1_dd_rms vs run
$\chi^2$ / ndf 97.35 / 84
p0 1803 ± 1.407
1840
1820
1800
1780
1760

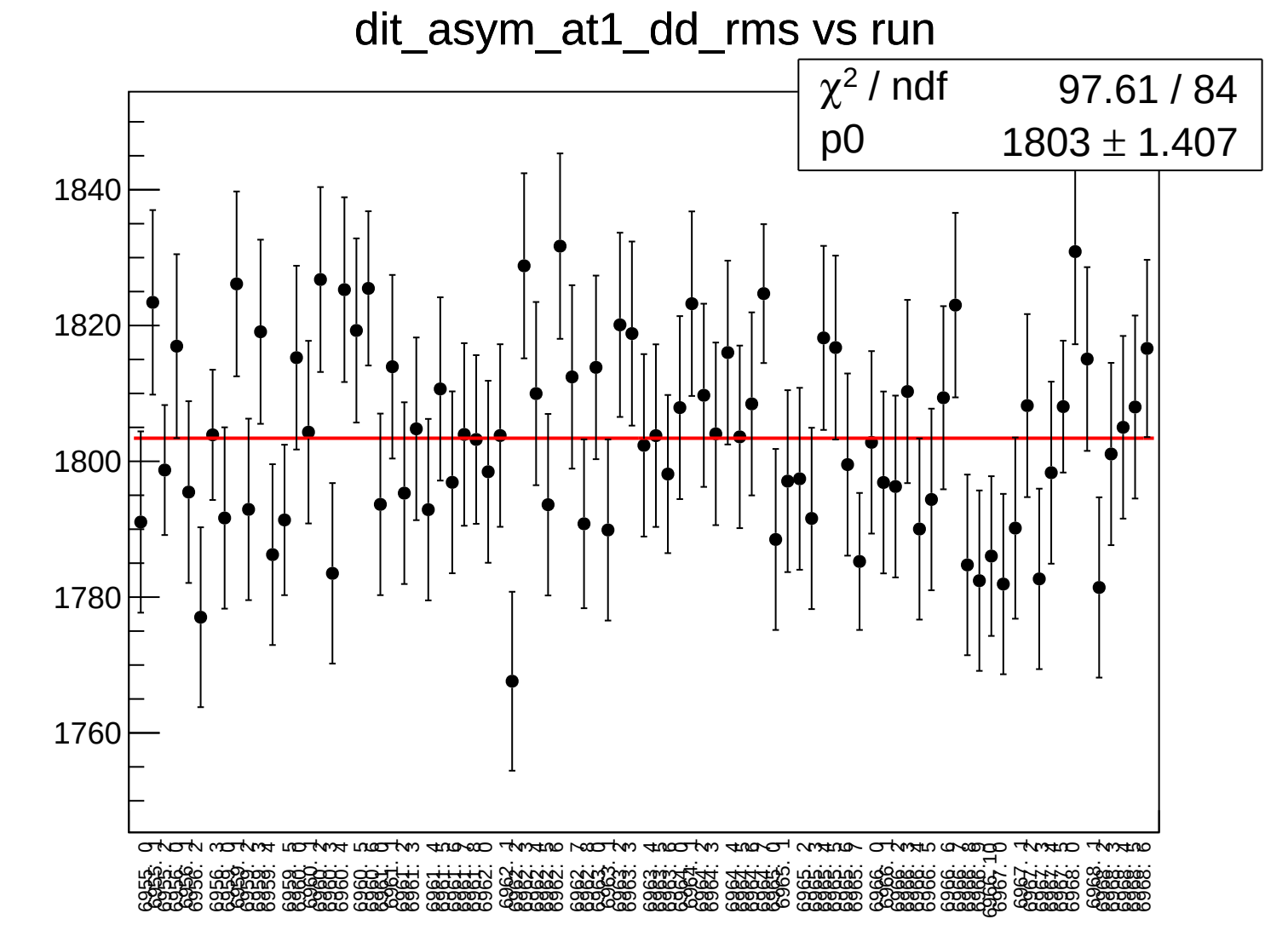

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.88 / 84
p0 194.4 ± 580.4
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −28.75
Std Dev 0
3
2
1
0
−1
−2
−3

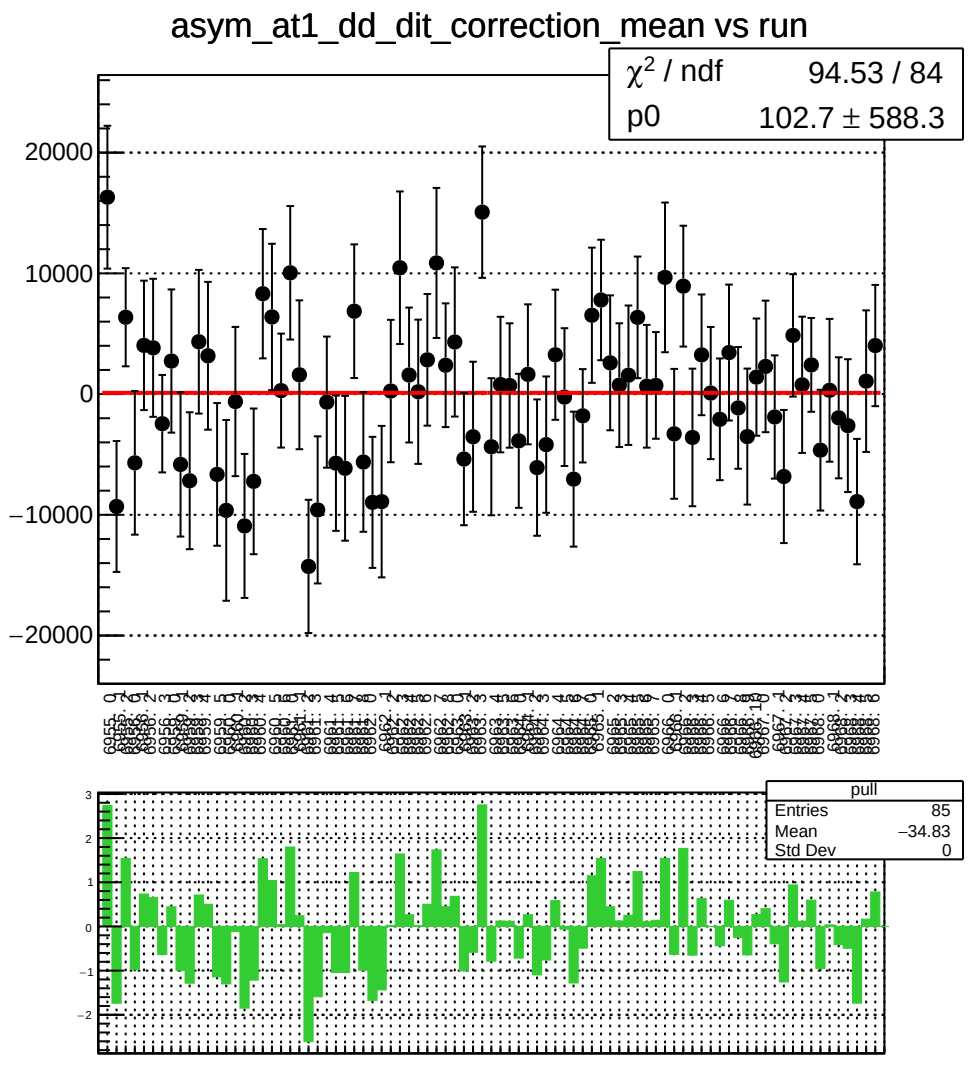

pull1D
Entries 85
Mean −0.01692
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

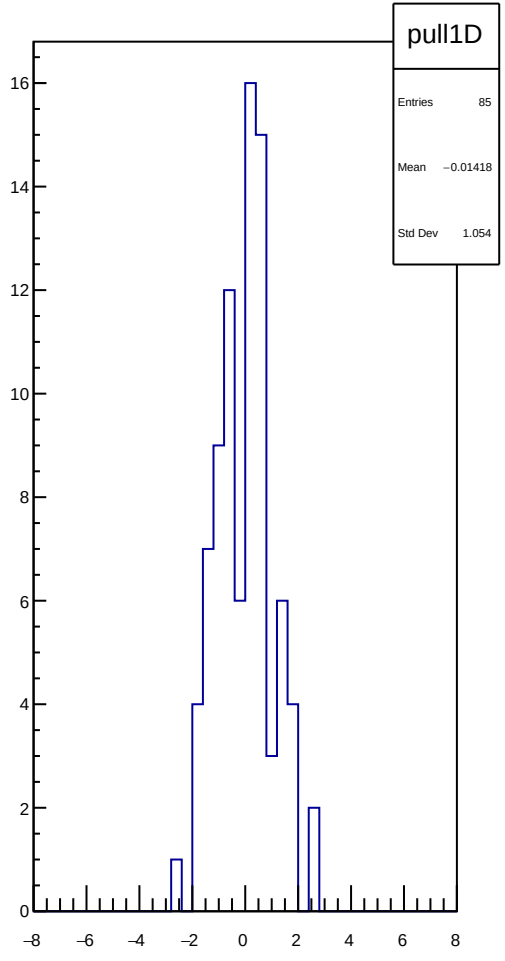

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 8990 / 84
p0 524.6 ± 0.4104
750
700
650
600
550
500
450

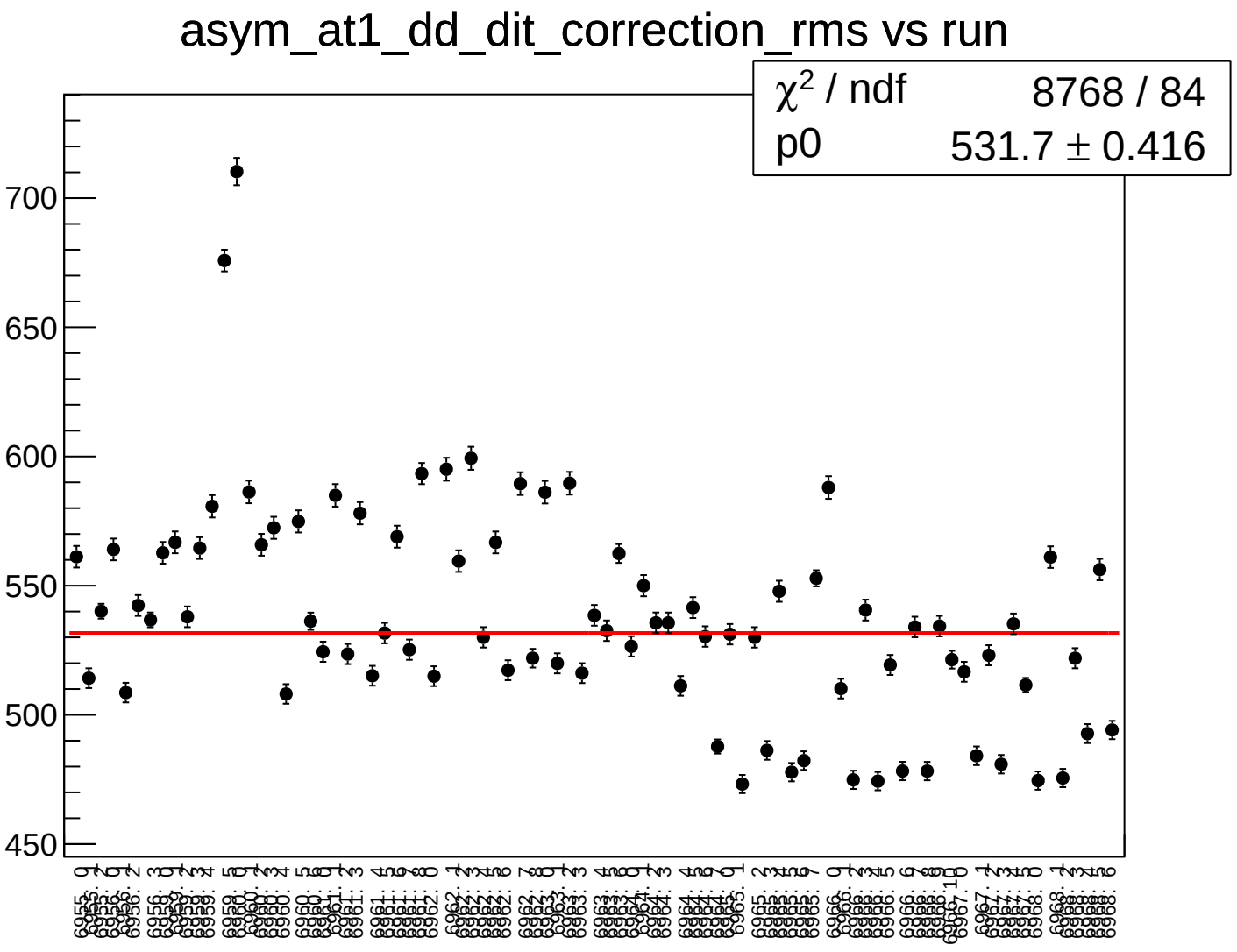

dit_asym_at1_dd_mean vs run
χ² / ndf 124 / 84
p0 2483 ± 1990
pull
Entries 85
Mean 423.2
Std Dev 0

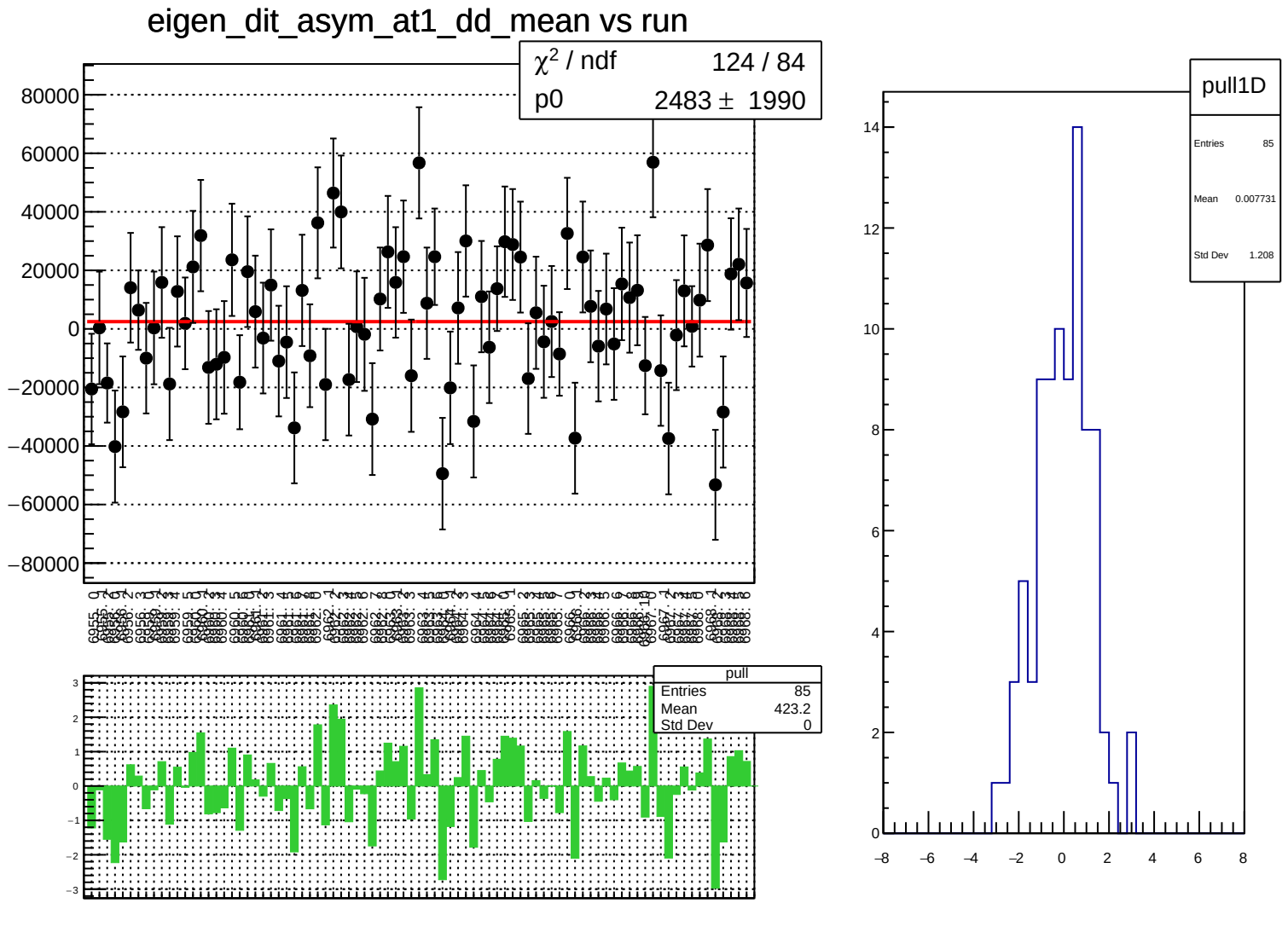

pull1D
Entries 85
Mean 0.007731
Std Dev 1.208

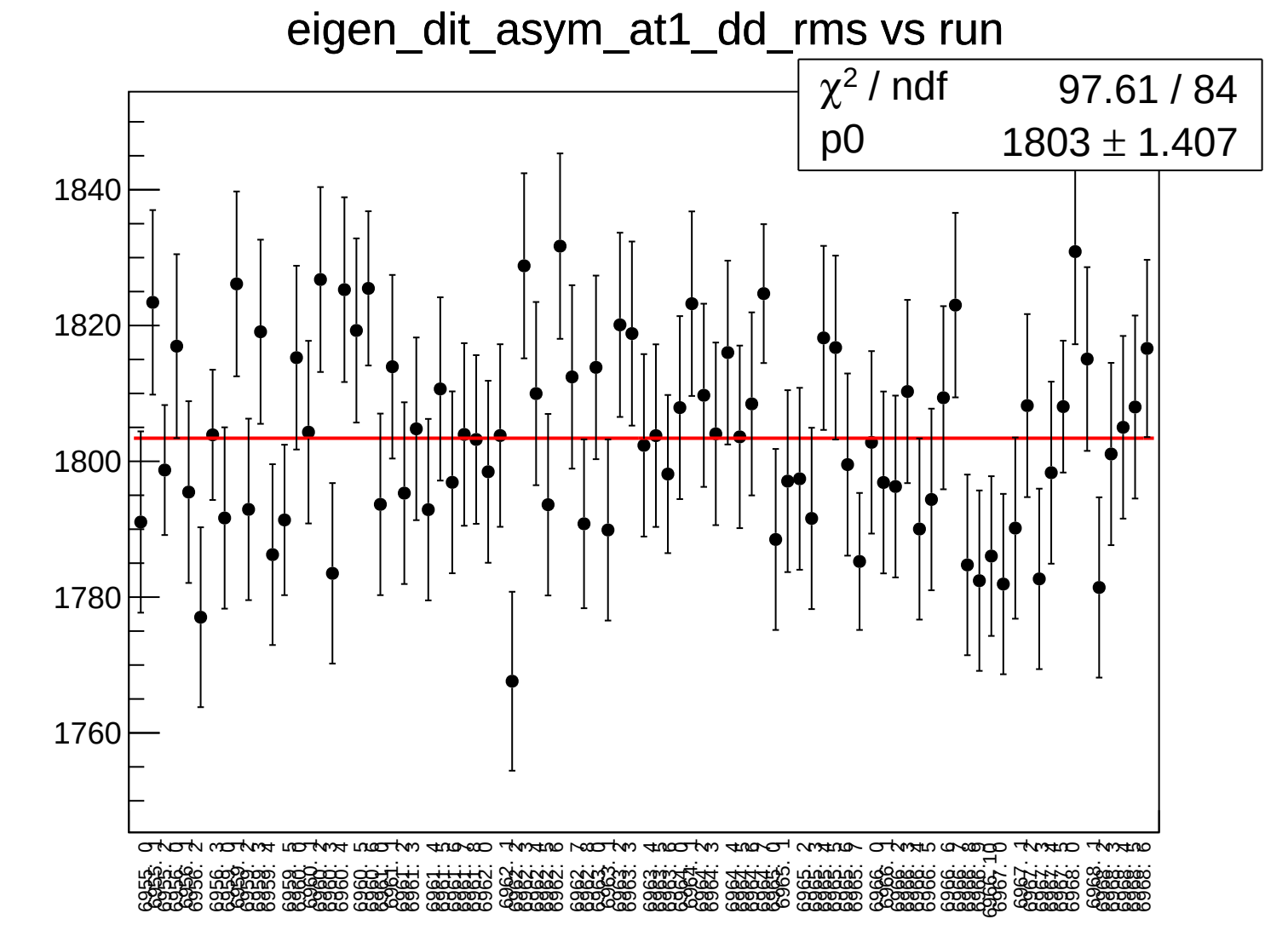

dit_asym_at1_dd_rms vs run
$\chi^2$ / ndf 97.61 / 84
p0 1803 ± 1.407
1840
1820
1800
1780
1760

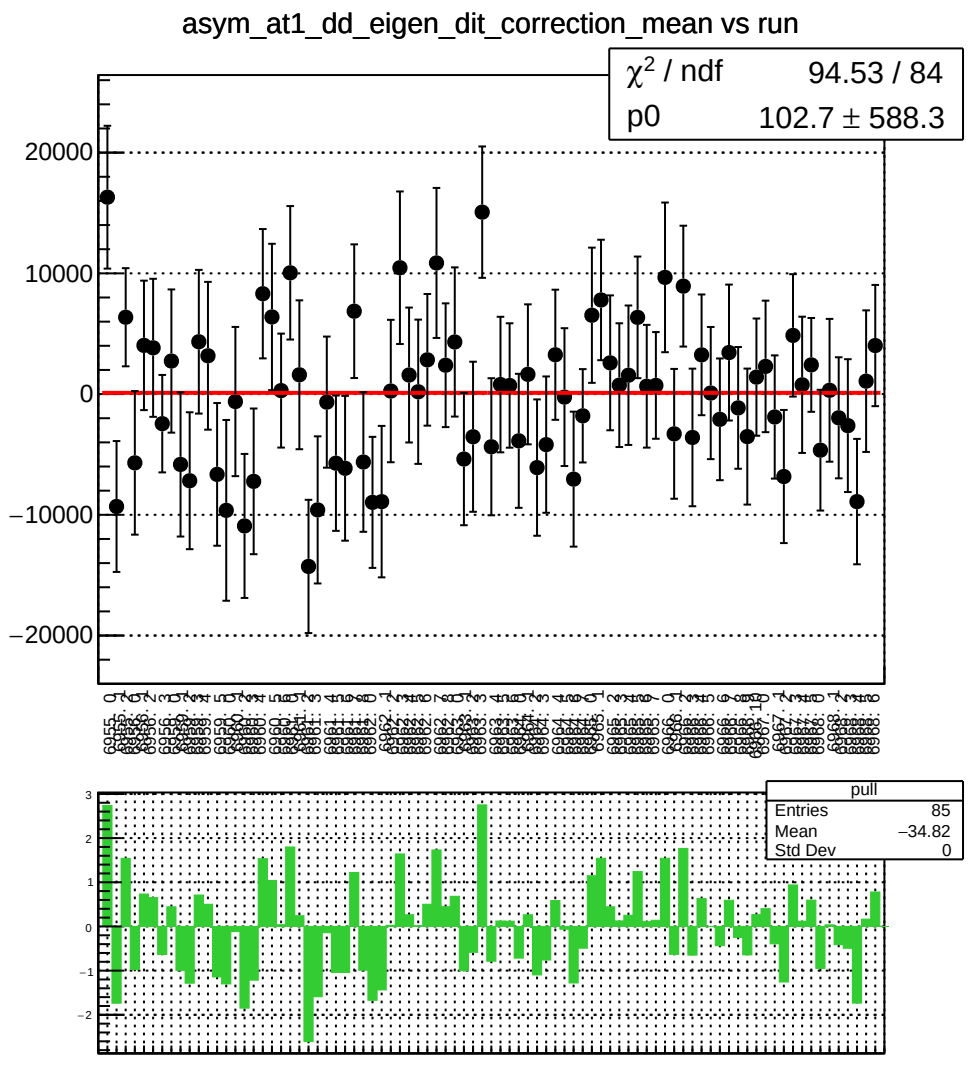

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 94.53 / 84
p0 102.7 ± 588.3
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −34.83
Std Dev 0
3
2
1
0
−1
−2

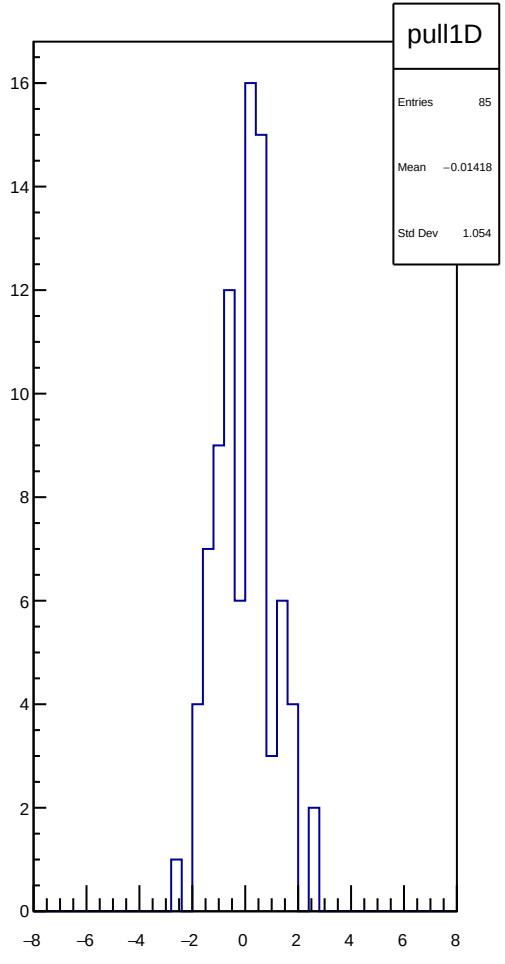

pull1D
Entries 85
Mean −0.01418
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

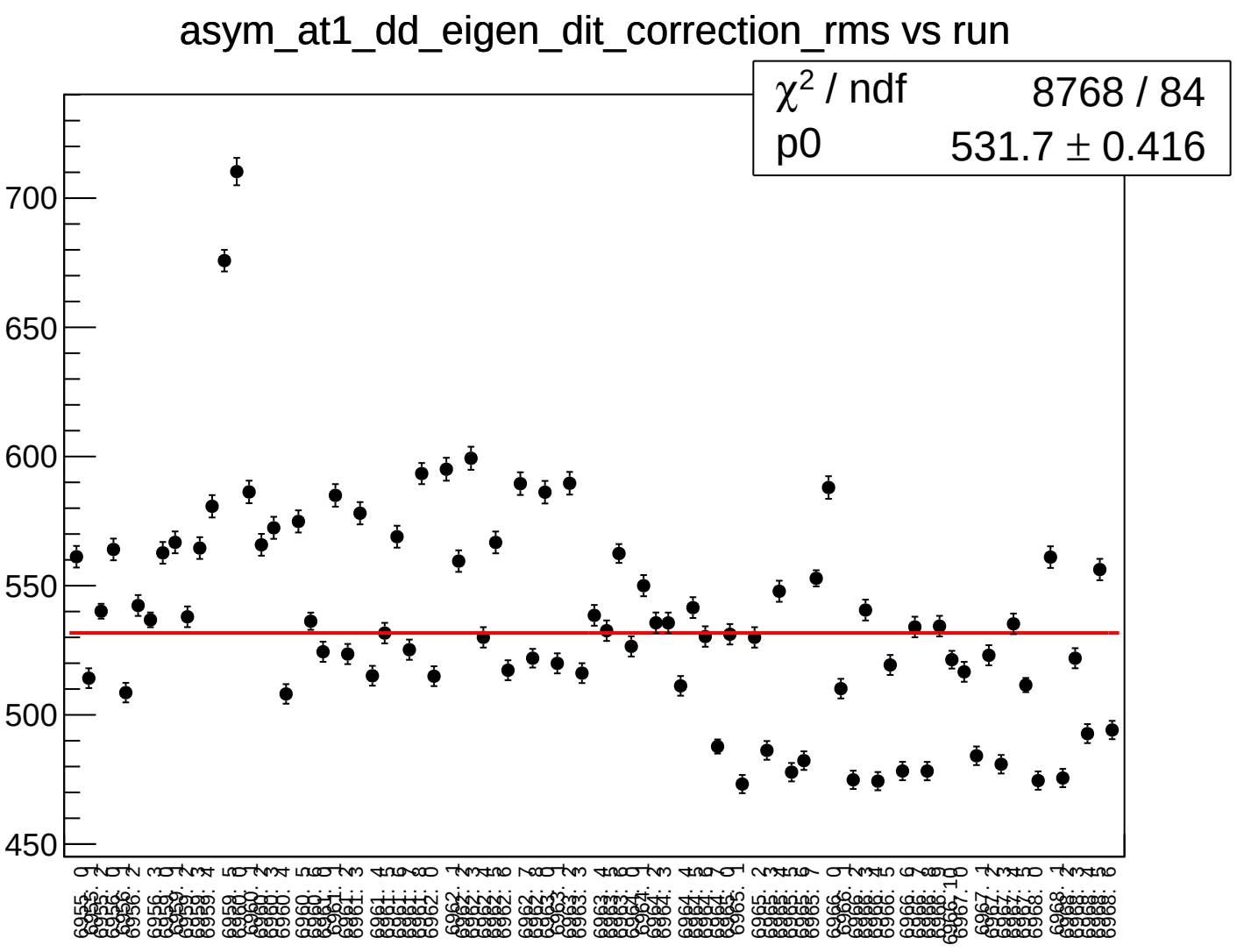

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 8768 / 84
p0 531.7 ± 0.416
700
650
600
550
500
450

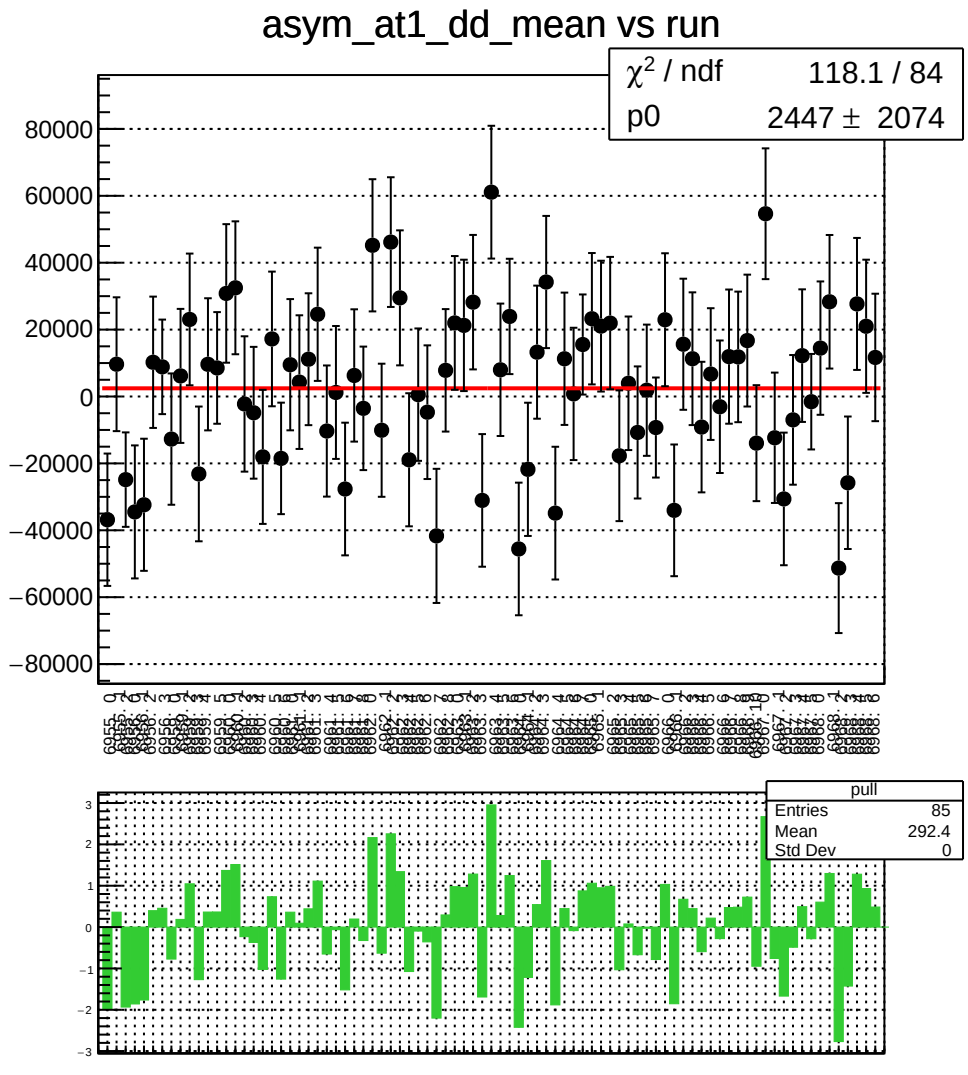

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 124 / 84
p0 2483 ± 1990
pull
Entries 85
Mean 423.2
Std Dev 0
pull1D
Entries 85
Mean 0.007731
Std Dev 1.208

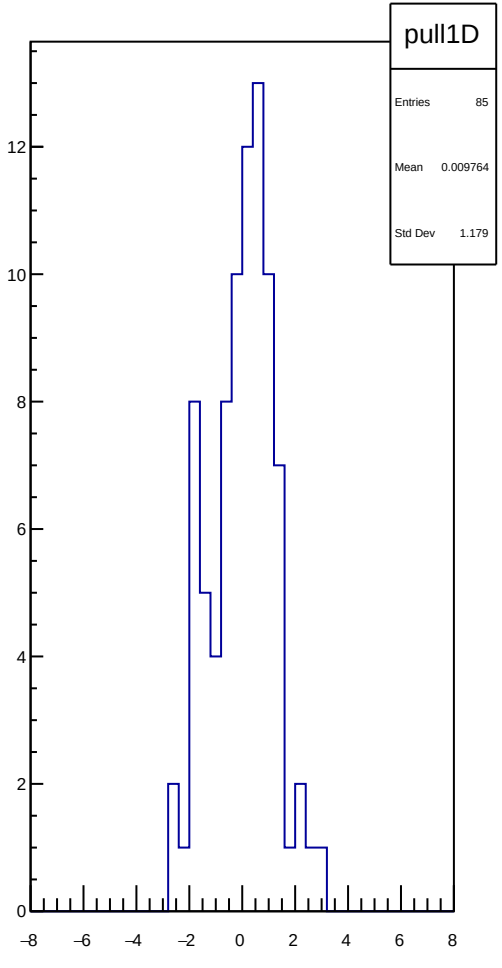

eigen_dit_asym_at1_dd_rms vs run
$\chi^2$ / ndf 97.61 / 84
p0 1803 ± 1.407
1840
1820
1800
1780
1760

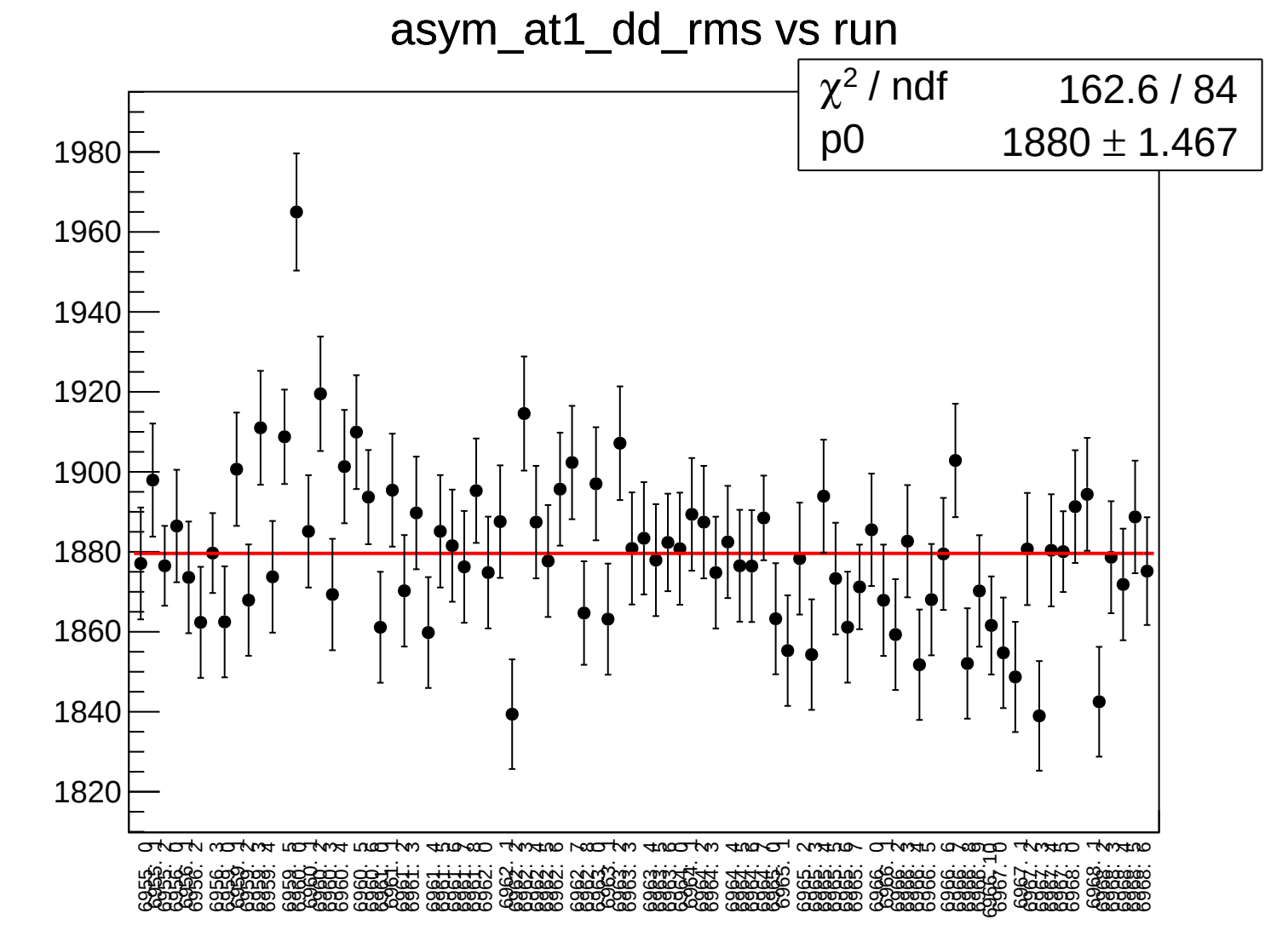

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.53 / 84
p0 102.7 ± 588.3
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −34.82
Std Dev 0
3
2
1
0
−1
−2

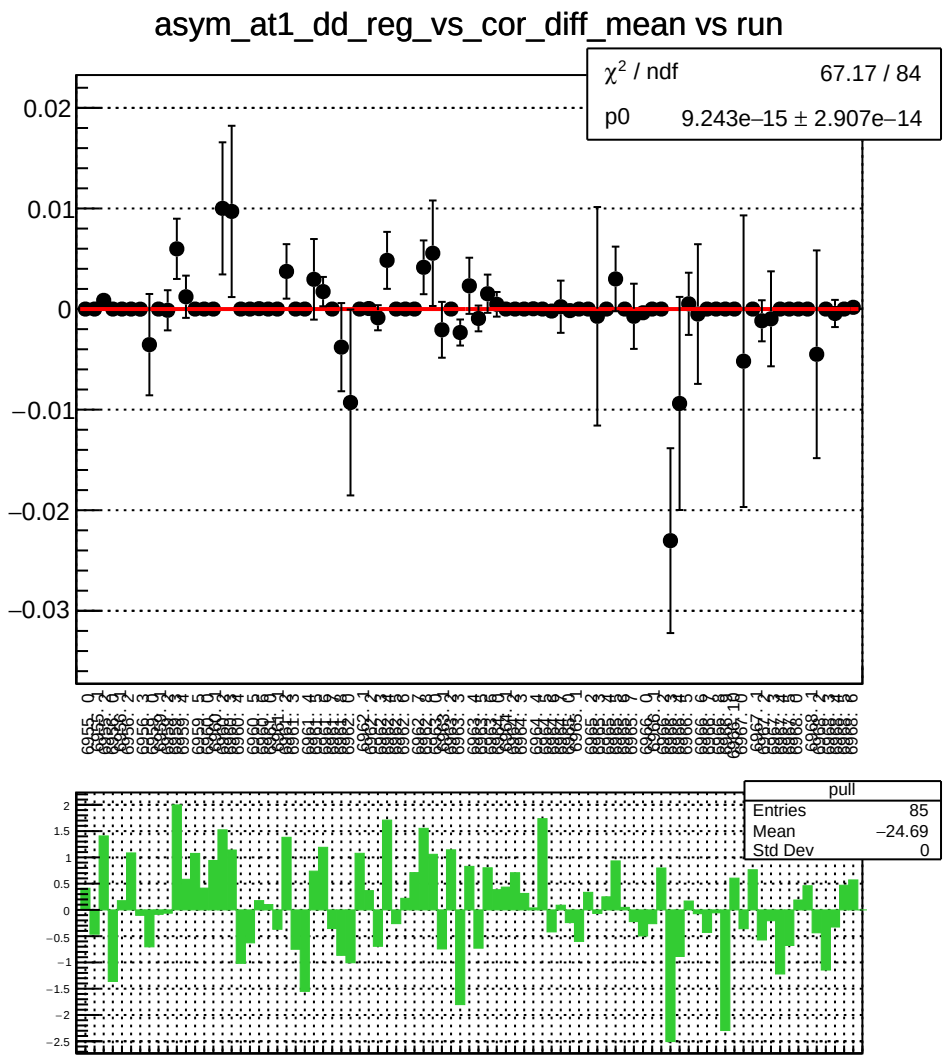

pull1D
Entries 85
Mean −0.01418
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

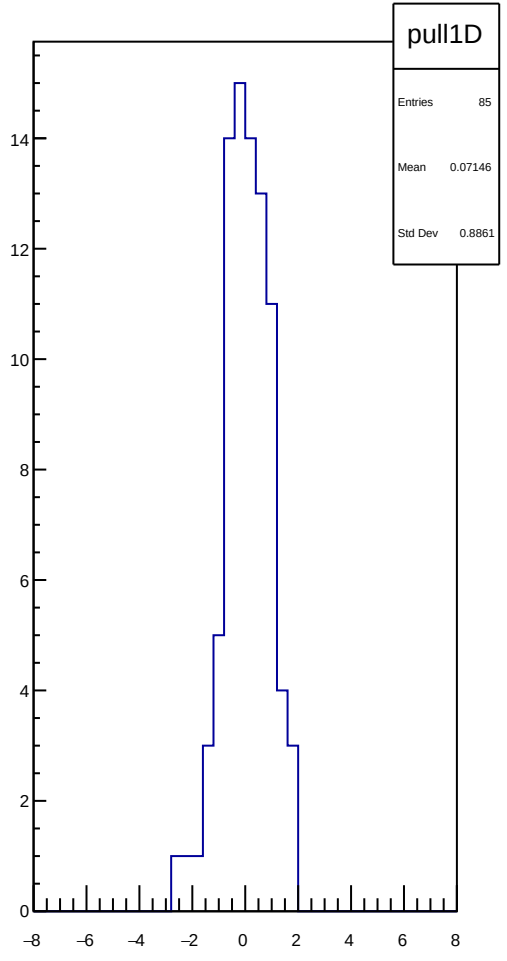

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 8768 / 84
p0 531.7 ± 0.416
700
650
600
550
500
450

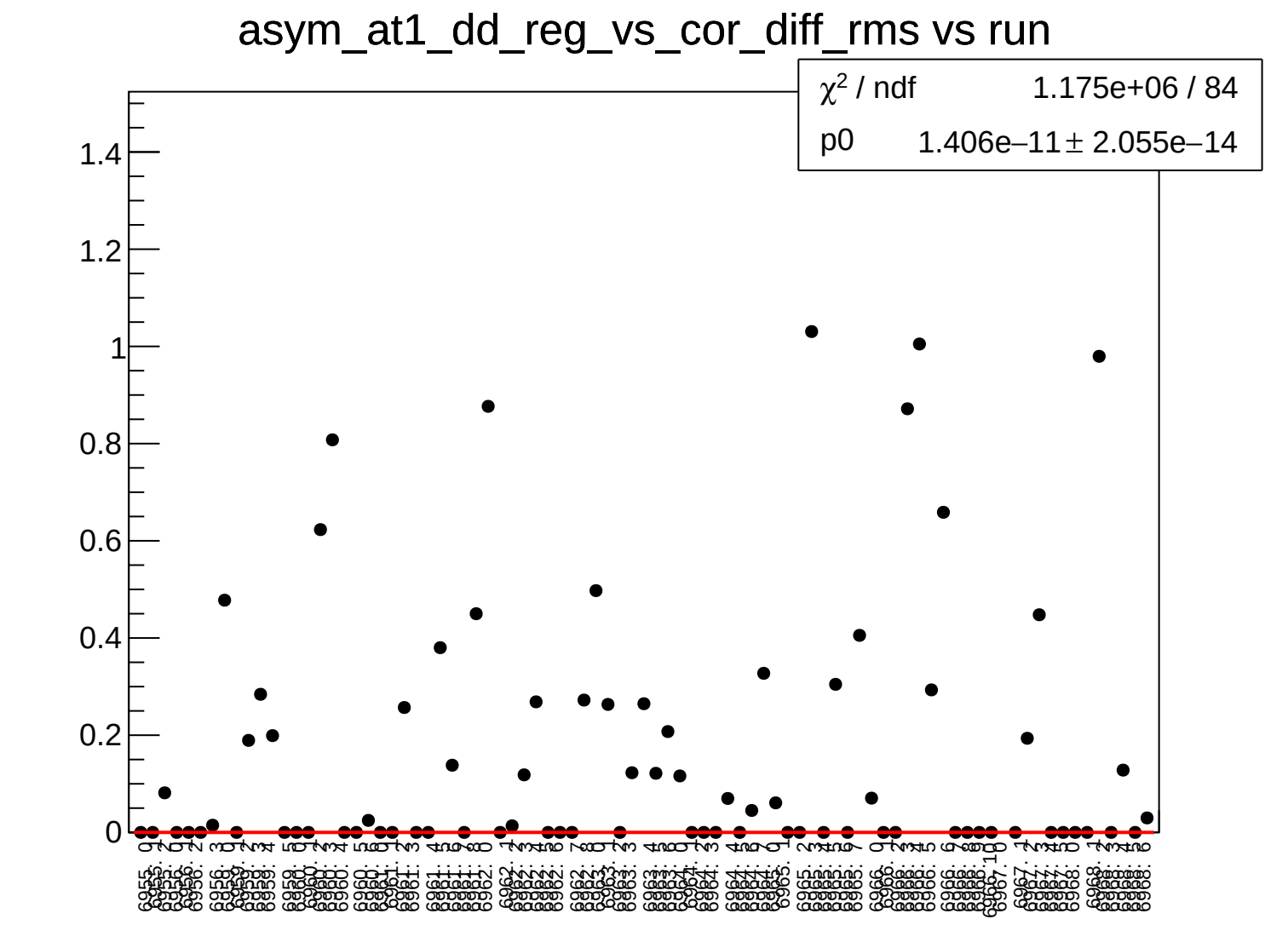

asym_at1_dd_mean vs run
$\chi^2$ / ndf 118.1 / 84
p0 2447 ± 2074
pull
Entries 85
Mean 292.4
Std Dev 0

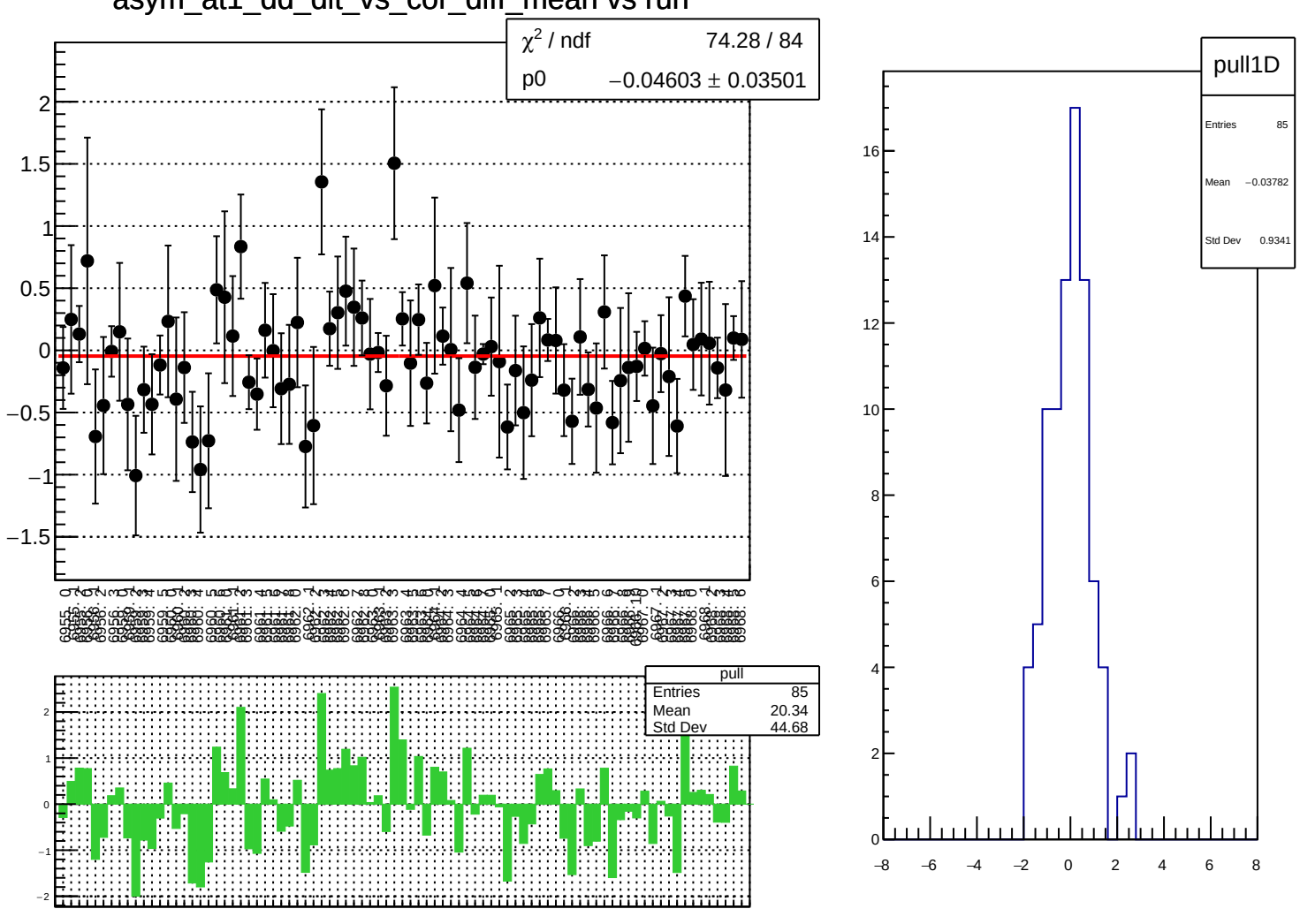

pull1D
Entries 85
Mean 0.009764
Std Dev 1.179

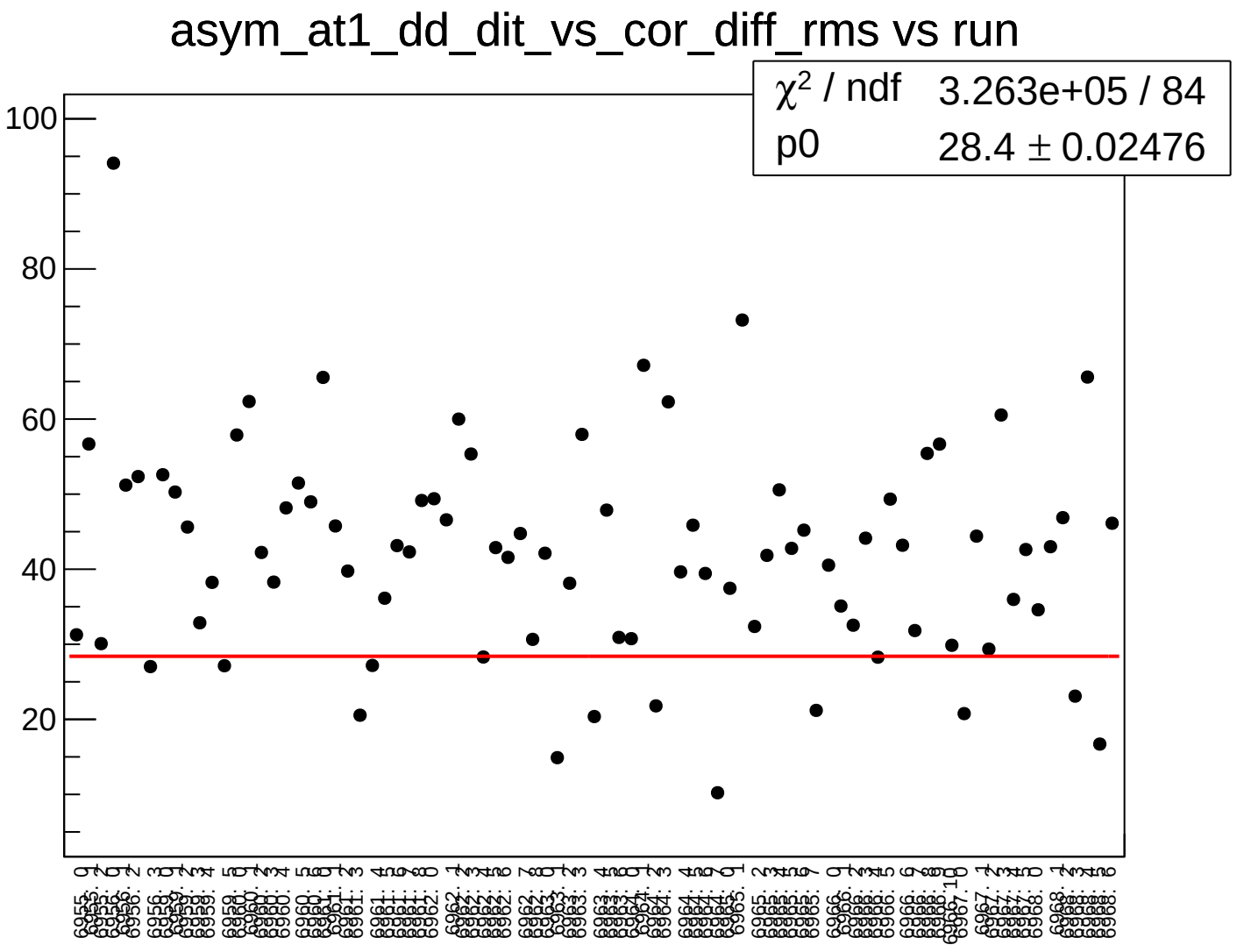

asym_at1_dd_rms vs run
$\chi^2$ / ndf 162.6 / 84
p0 1880 ± 1.467
1980
1960
1940
1920
1900
1880
1860
1840
1820

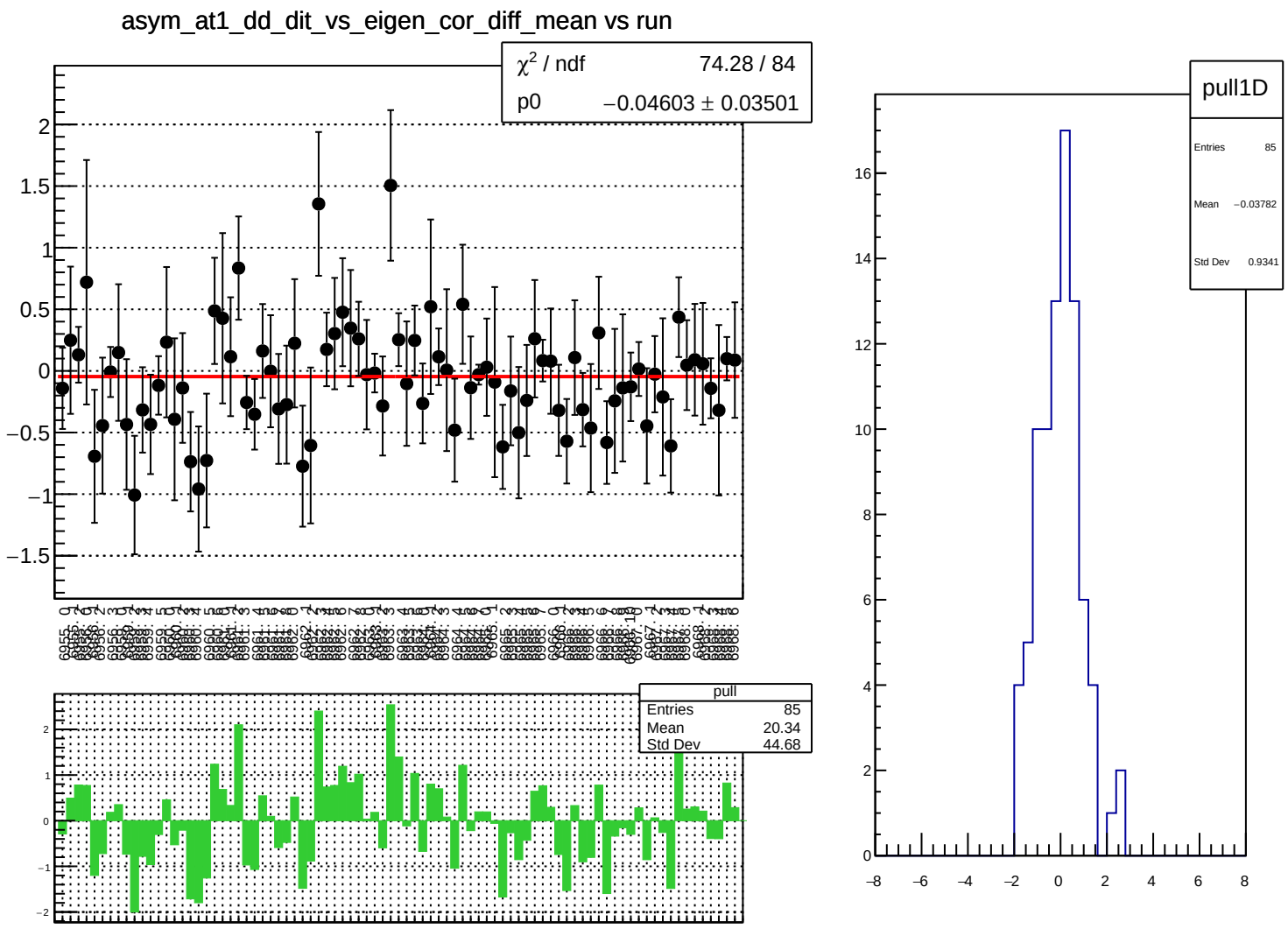

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 67.17 / 84
p0 9.243e−15 ± 2.907e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean −24.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

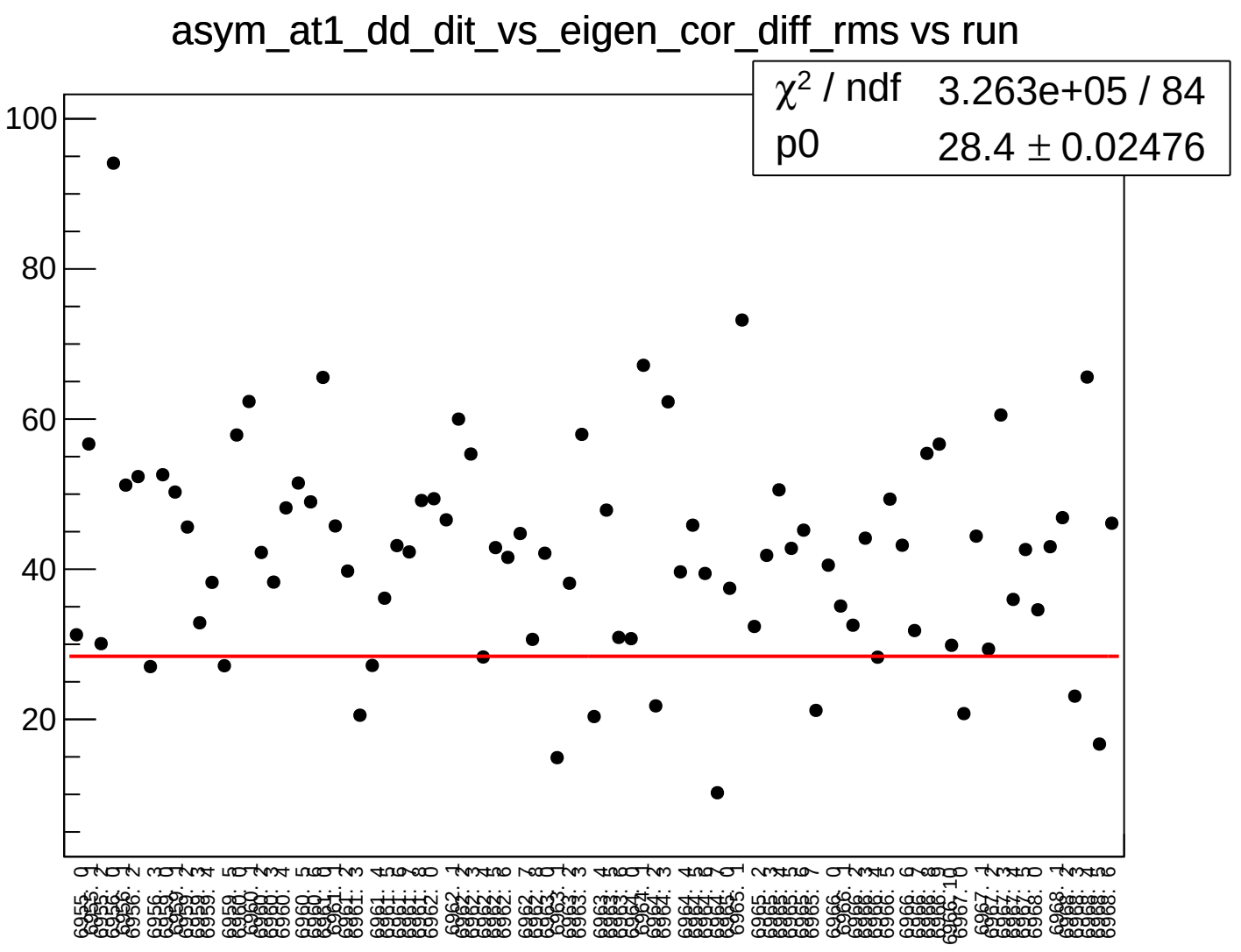

pull1D
Entries 85
Mean 0.07146
Std Dev 0.8861
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

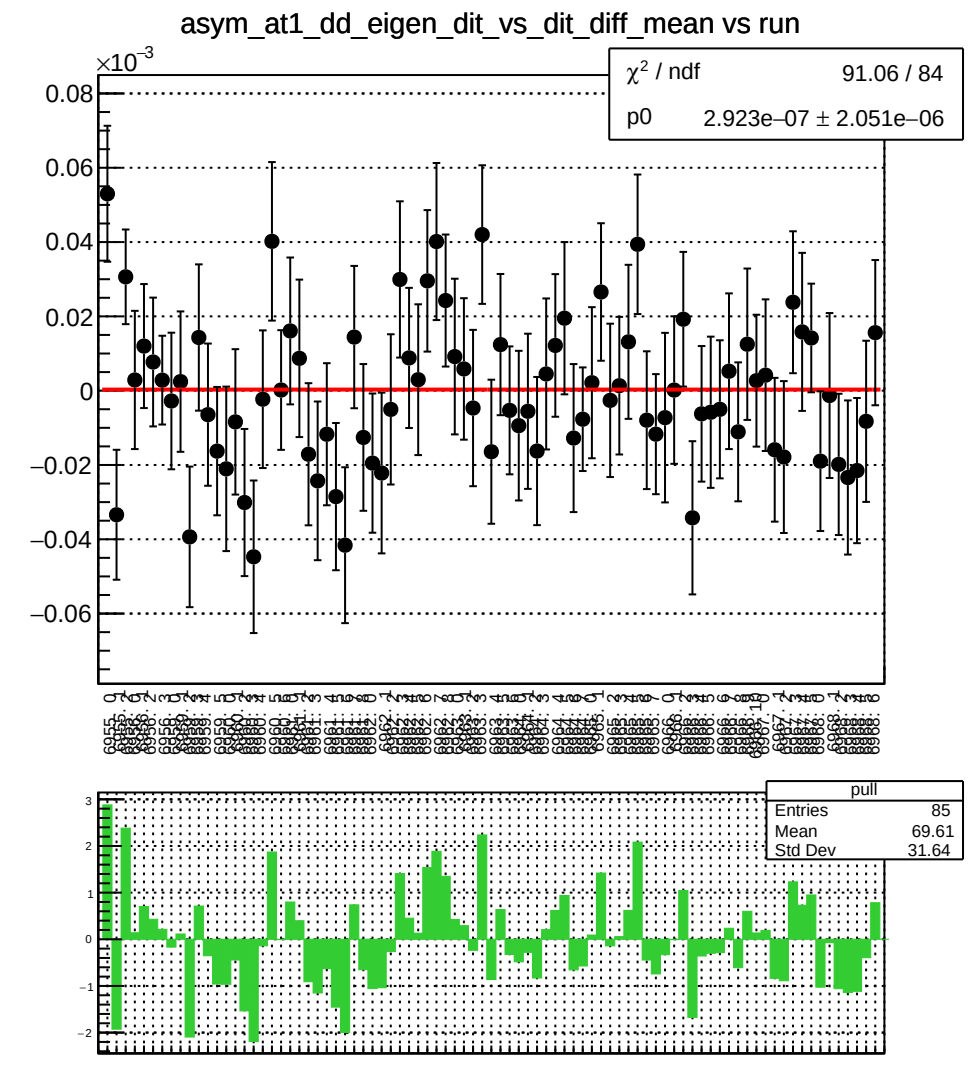

asym_at1_dd_reg_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.175e+06 / 84
p0 1.406e−11 ± 2.055e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

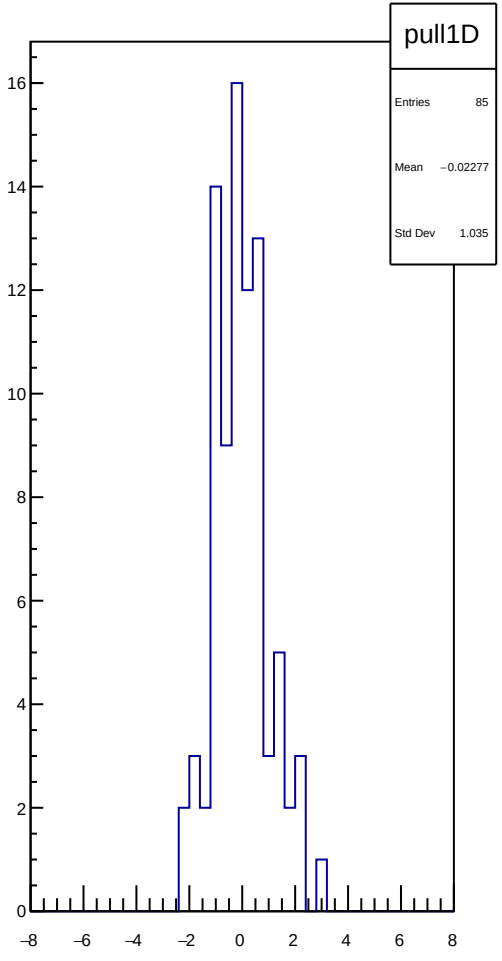

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.28 / 84
p0 −0.04603 ± 0.03501
pull
Entries 85
Mean 20.34
Std Dev 44.68
pull1D
Entries 85
Mean −0.03782
Std Dev 0.9341

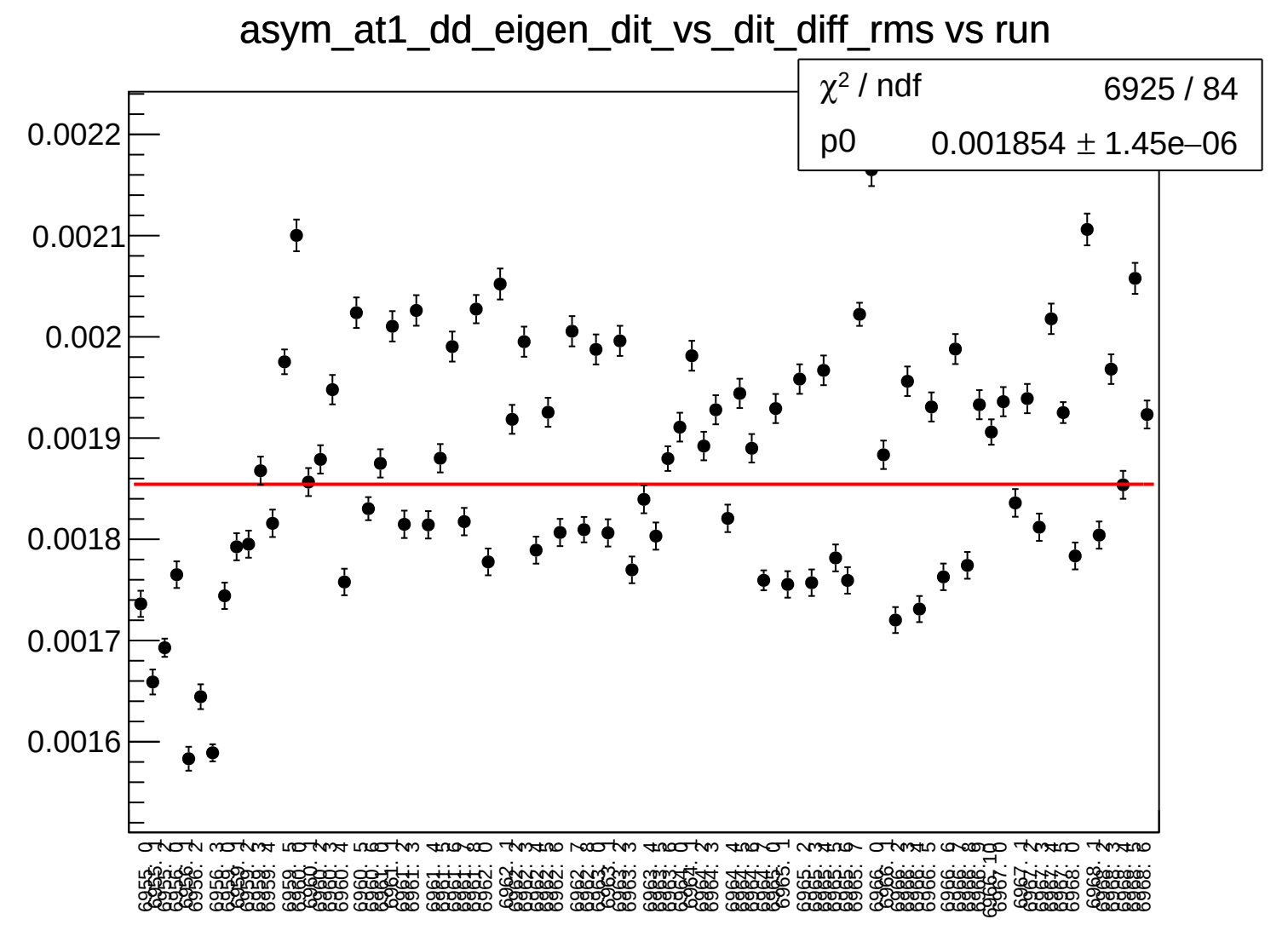

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.263e+05 / 84
p0 28.4 ± 0.02476
100
80
60
40
20

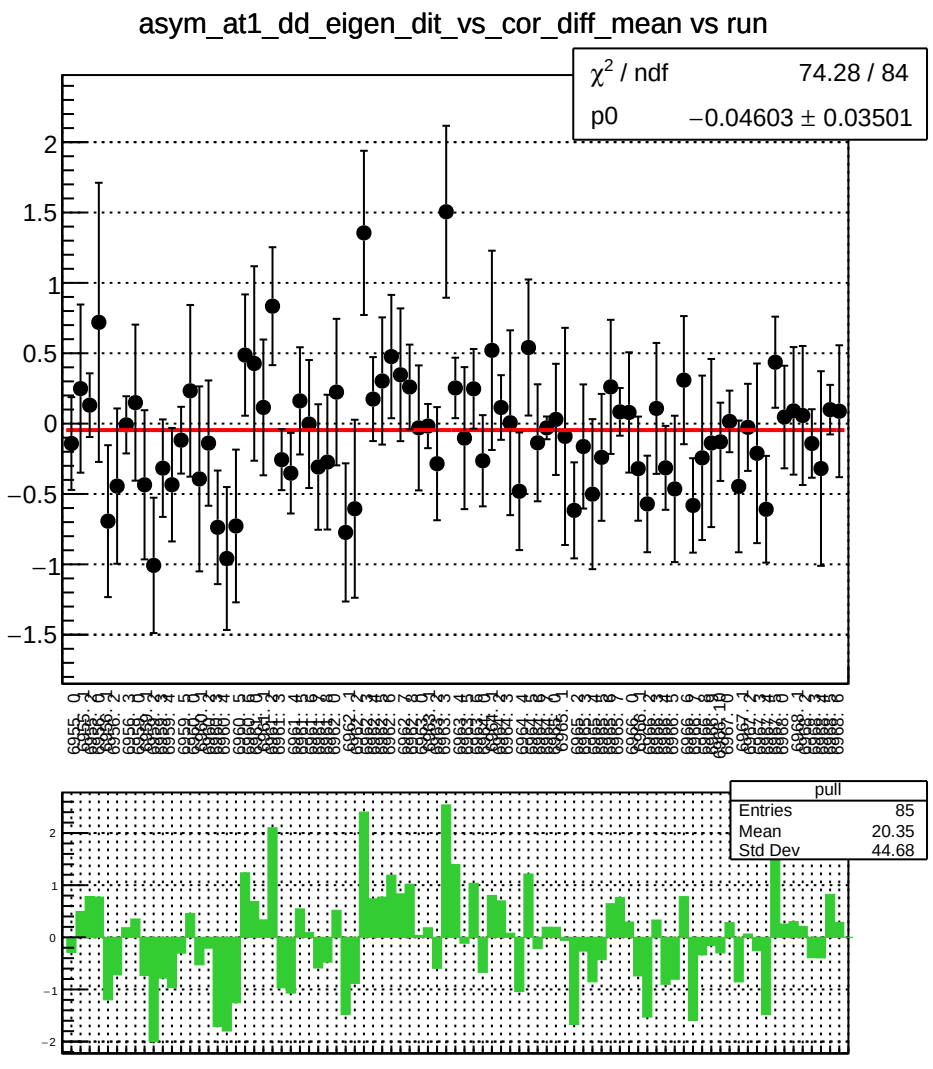

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.28 / 84
p0 −0.04603 ± 0.03501
pull
Entries 85
Mean 20.34
Std Dev 44.68
pull1D
Entries 85
Mean −0.03782
Std Dev 0.9341

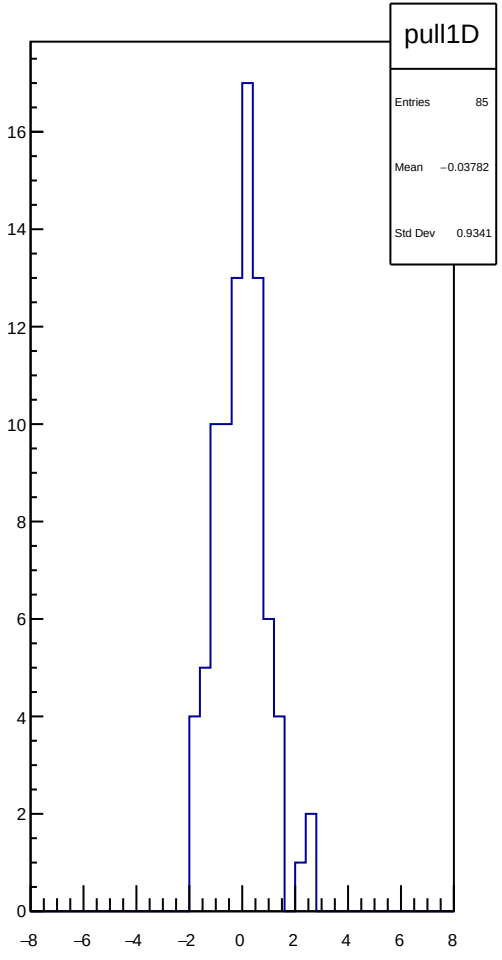

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 3.263e+05 / 84
p0 28.4 ± 0.02476
100
80
60
40
20

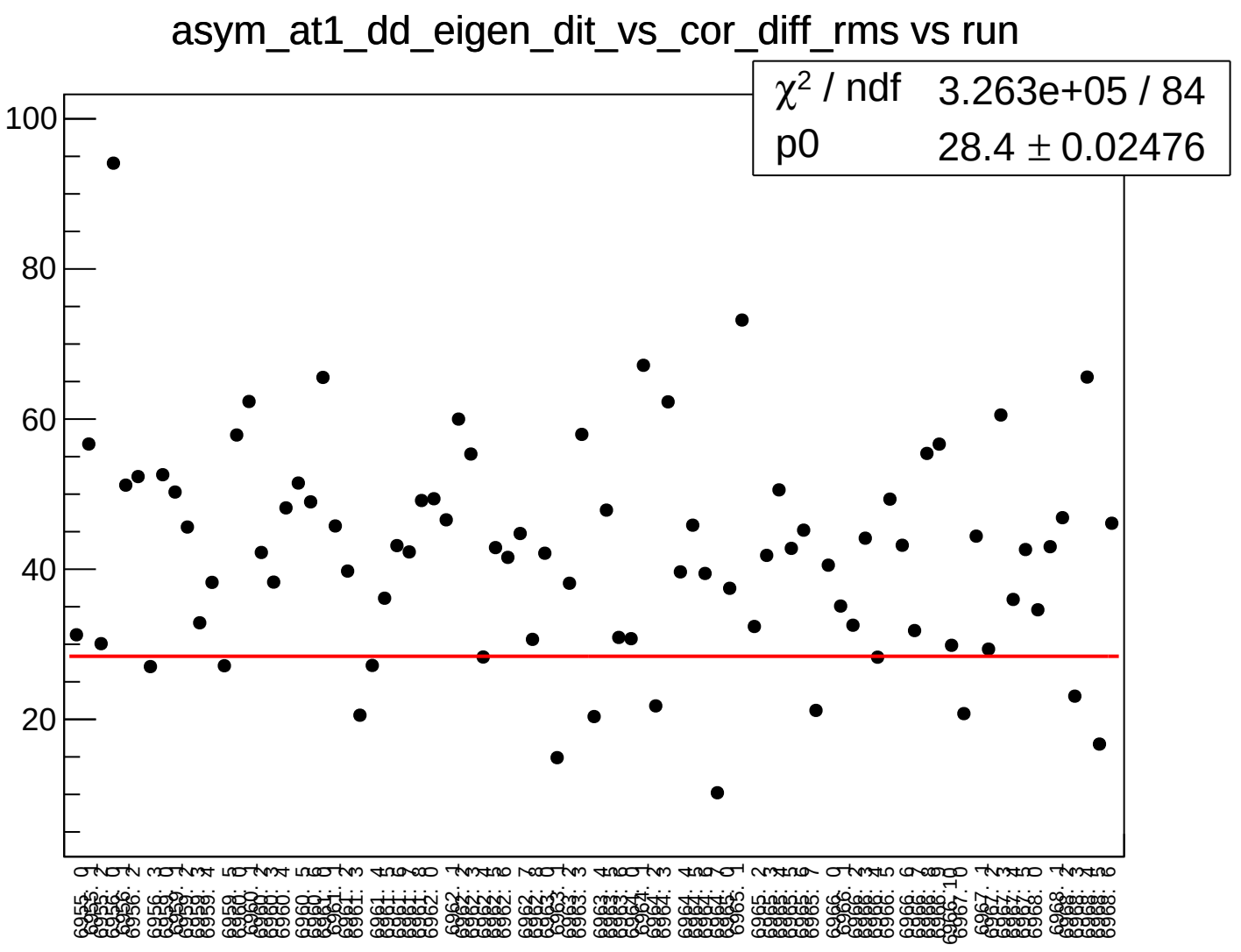

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.06 / 84
p0 2.923e−07 ± 2.051e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 85
Mean 69.61
Std Dev 31.64
3
2
1
0
−1
−2

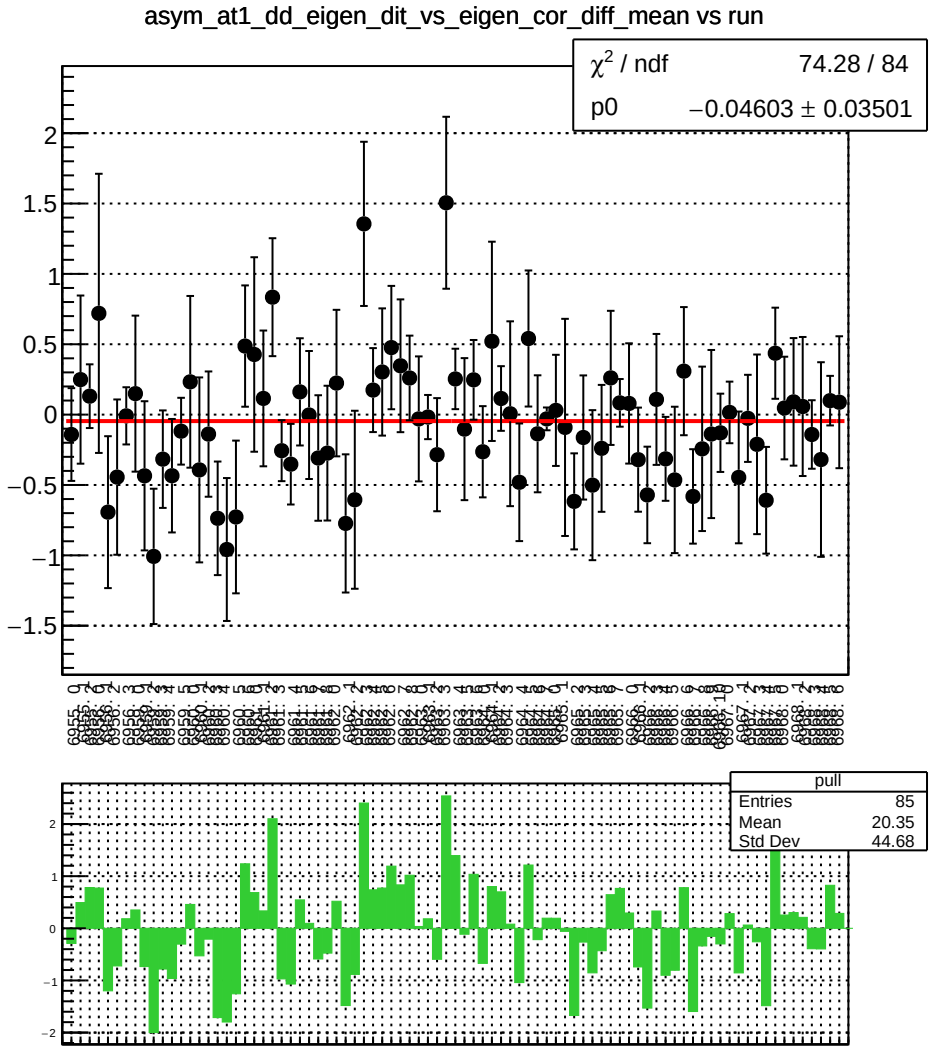

pull1D
Entries 85
Mean −0.02277
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

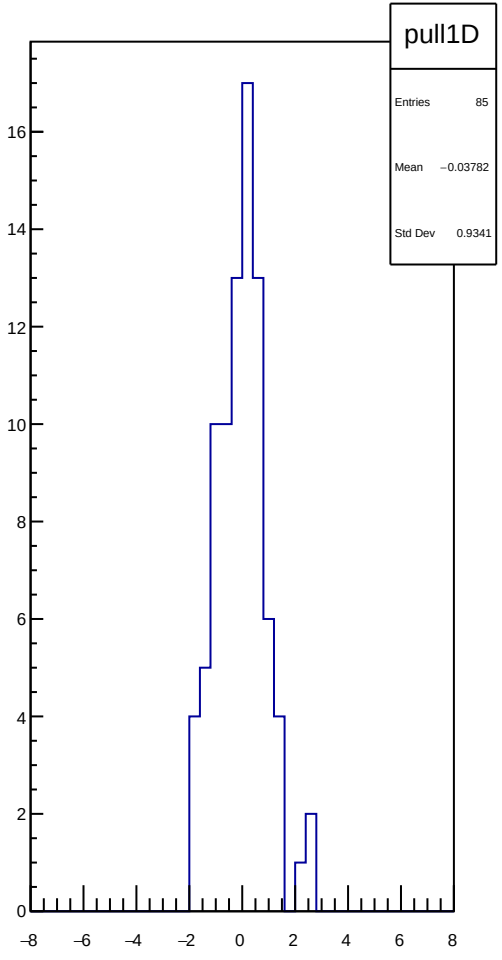

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6925 / 84
p0 0.001854 ± 1.45e–06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

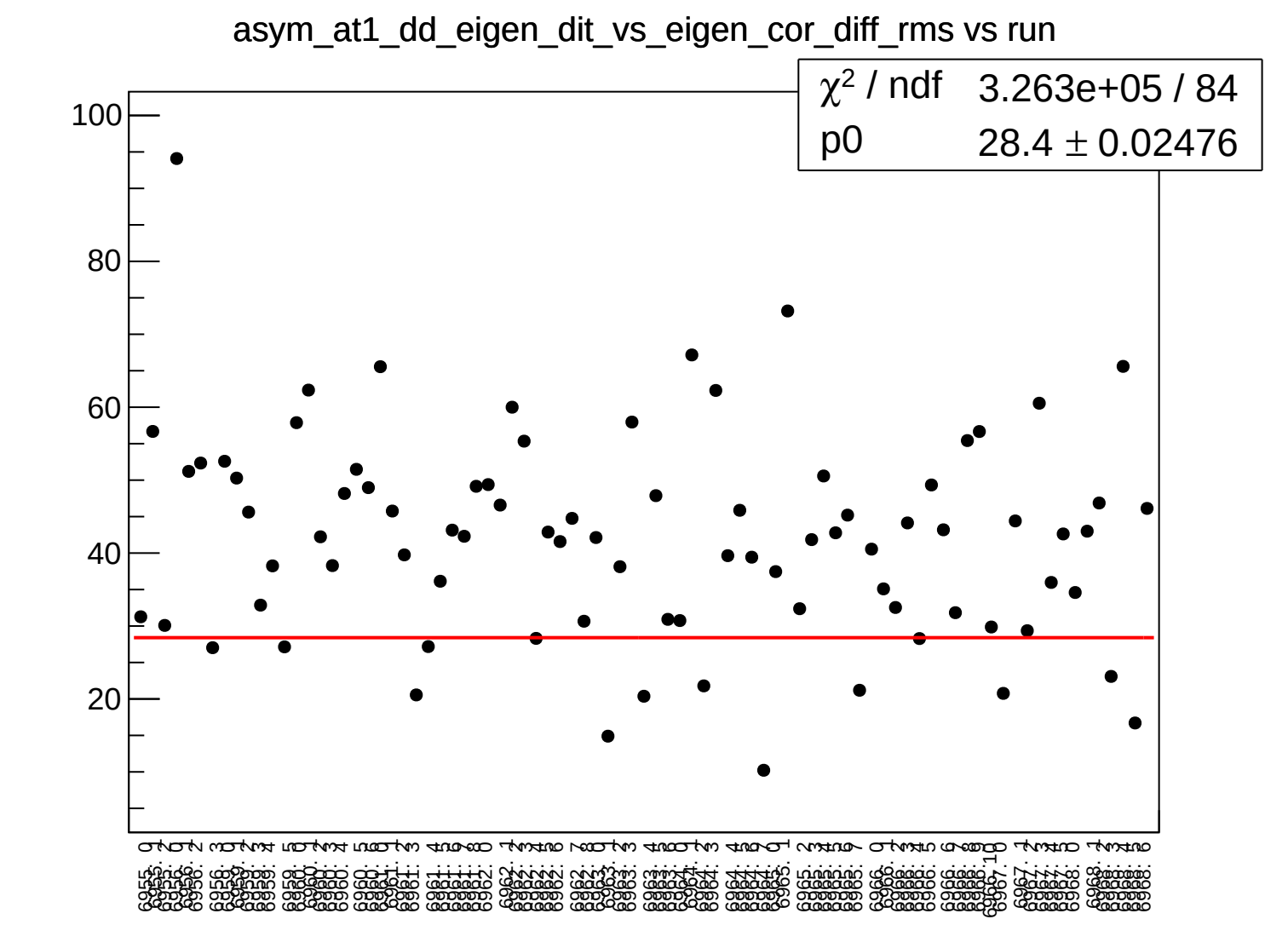

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.28 / 84
p0 −0.04603 ± 0.03501
pull
Entries 85
Mean 20.35
Std Dev 44.68

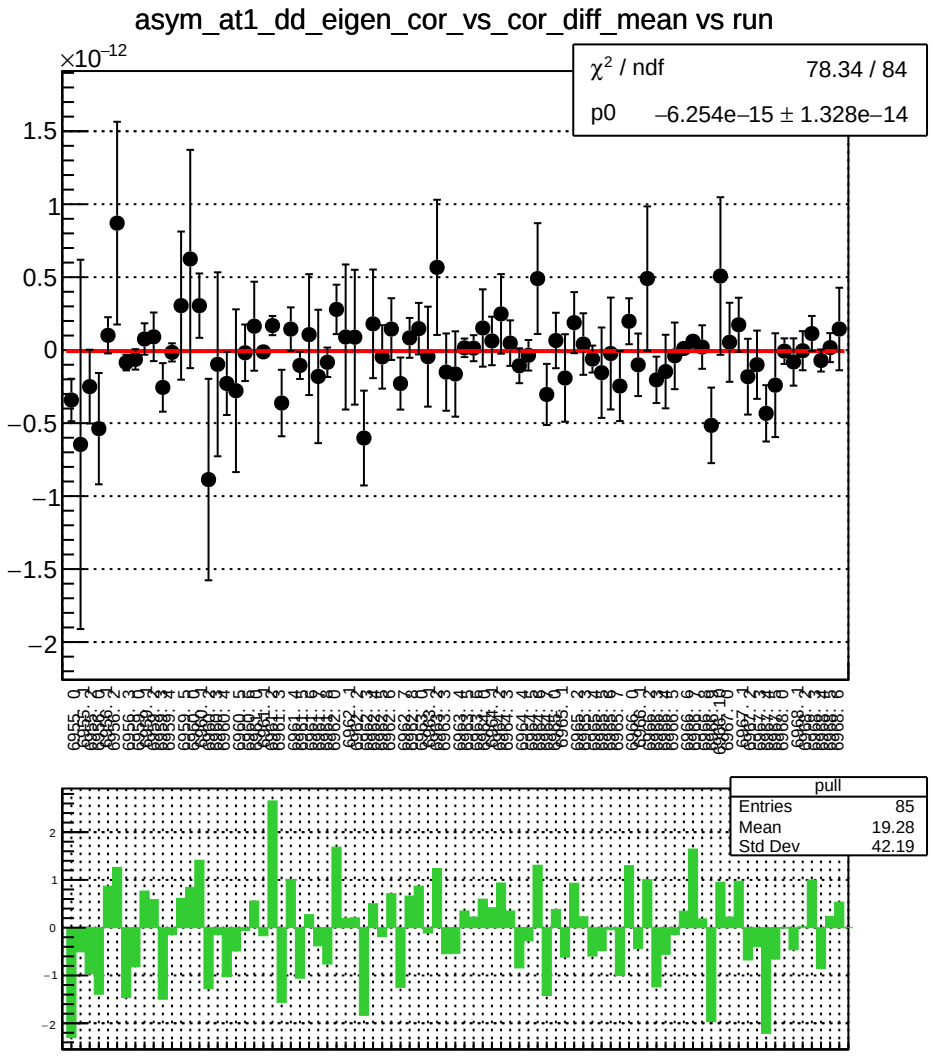

pull1D
Entries 85
Mean −0.03782
Std Dev 0.9341

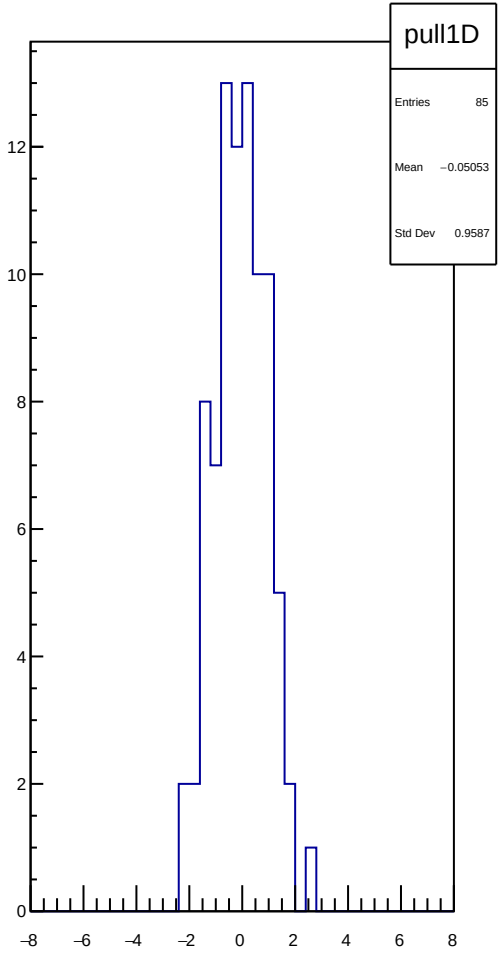

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.263e+05 / 84
p0 28.4 ± 0.02476
100
80
60
40
20

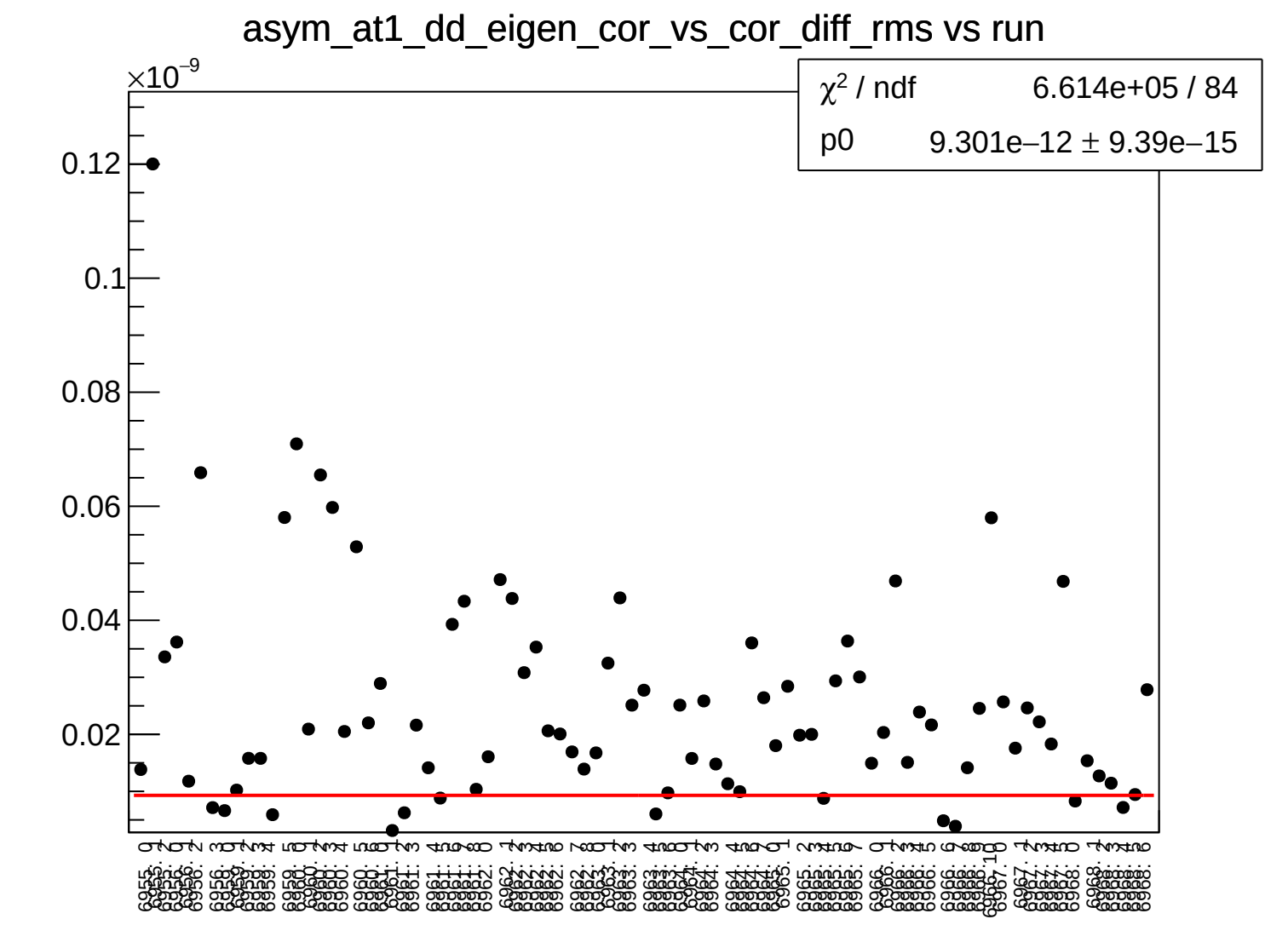

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.28 / 84
p0 −0.04603 ± 0.03501
pull
Entries 85
Mean 20.35
Std Dev 44.68

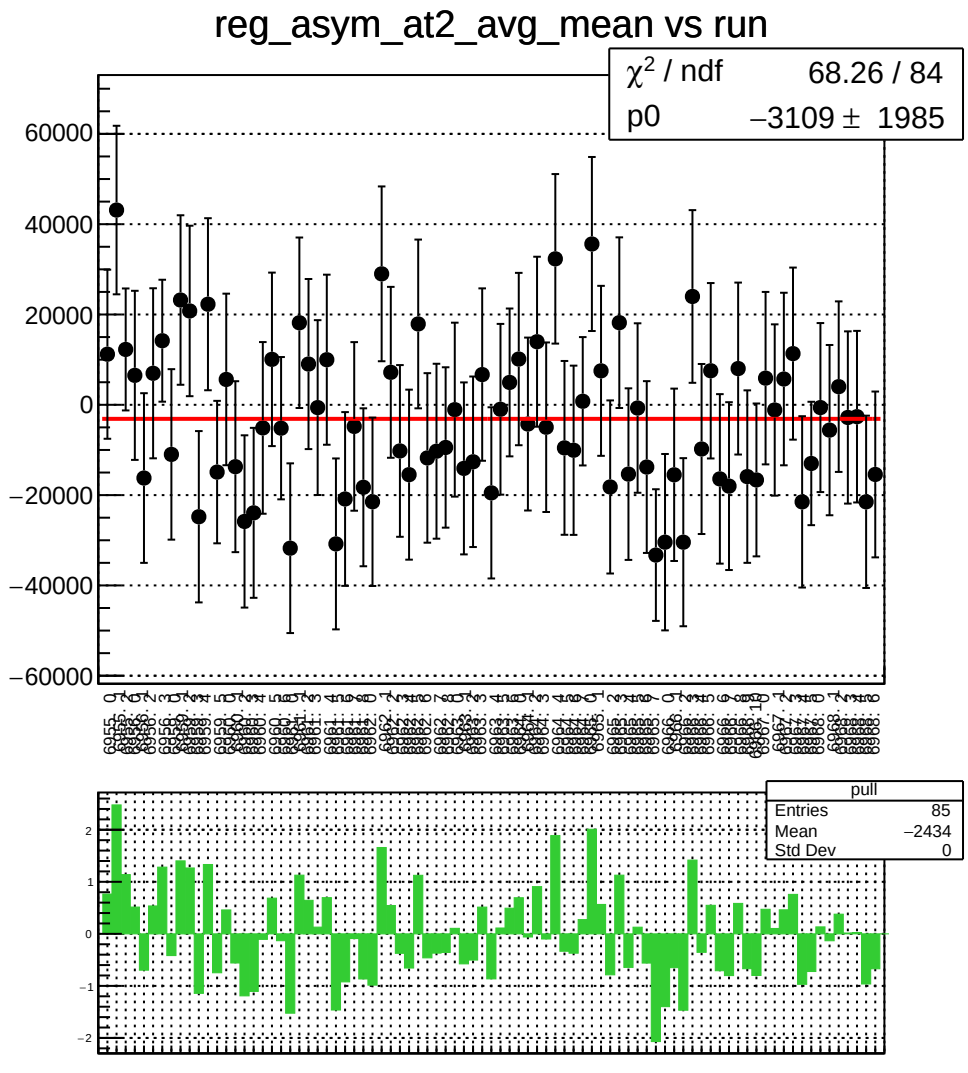

pull1D
Entries 85
Mean −0.03782
Std Dev 0.9341

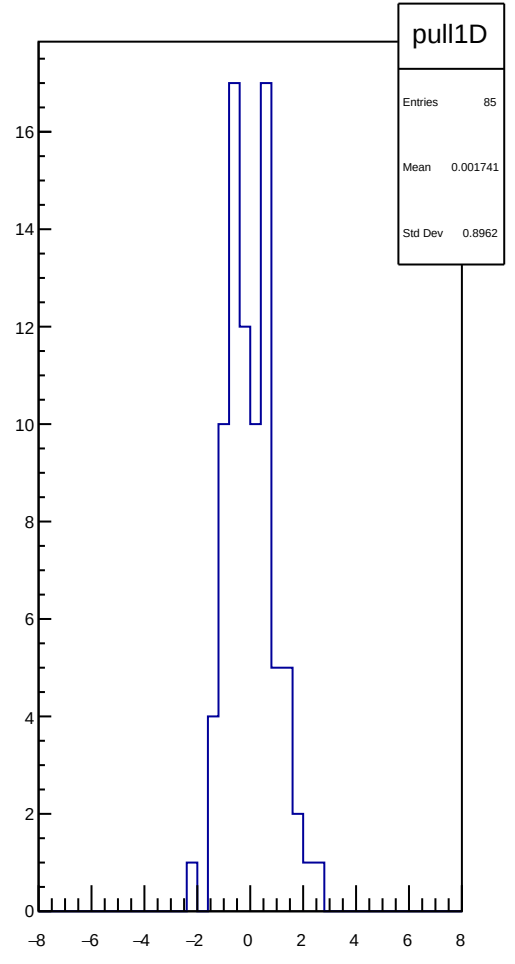

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.263e+05 / 84
p0 28.4 ± 0.02476
100
80
60
40
20

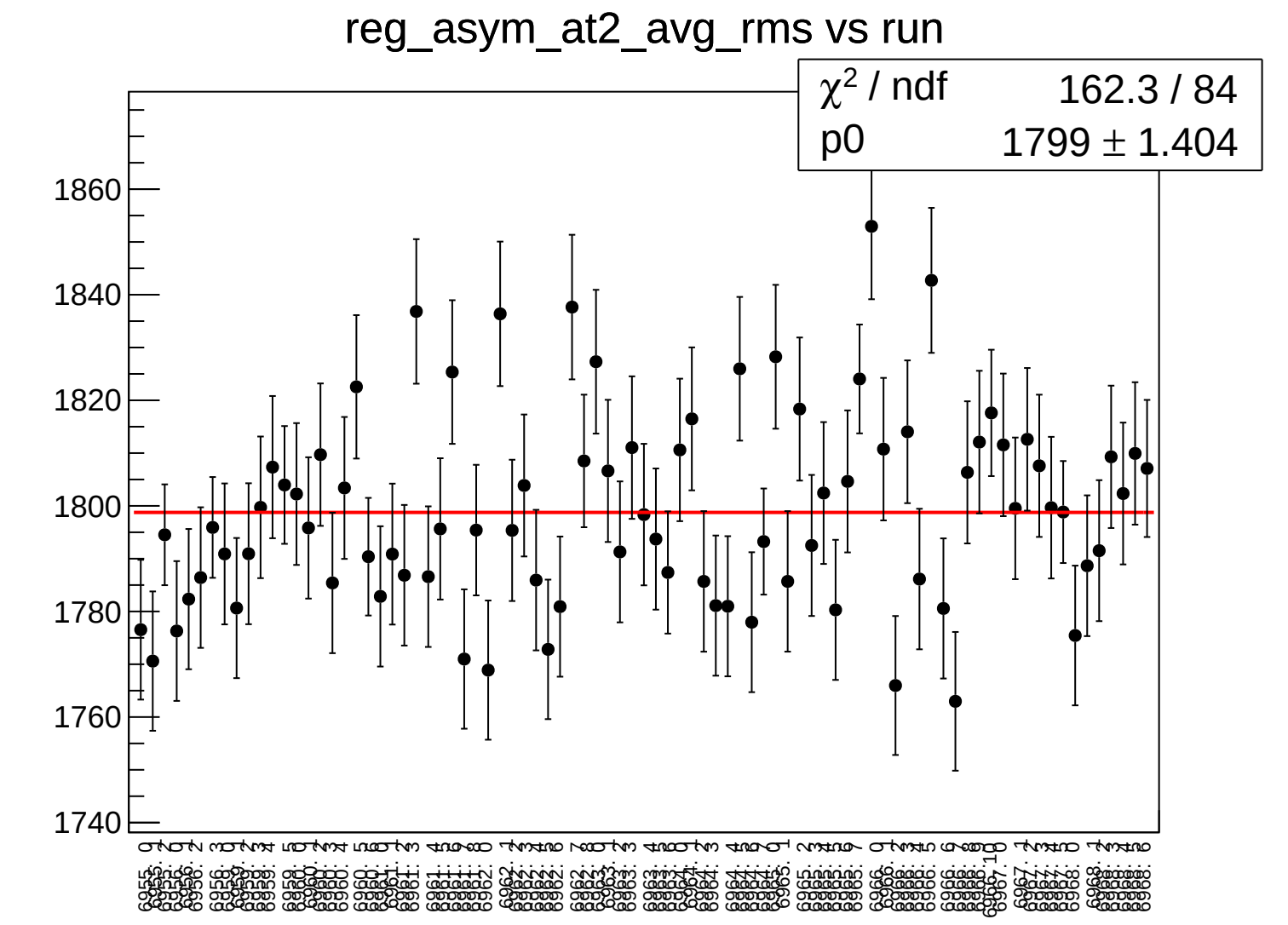

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.34 / 84
p0 −6.254e−15 ± 1.328e−14
pull
Entries 85
Mean 19.28
Std Dev 42.19

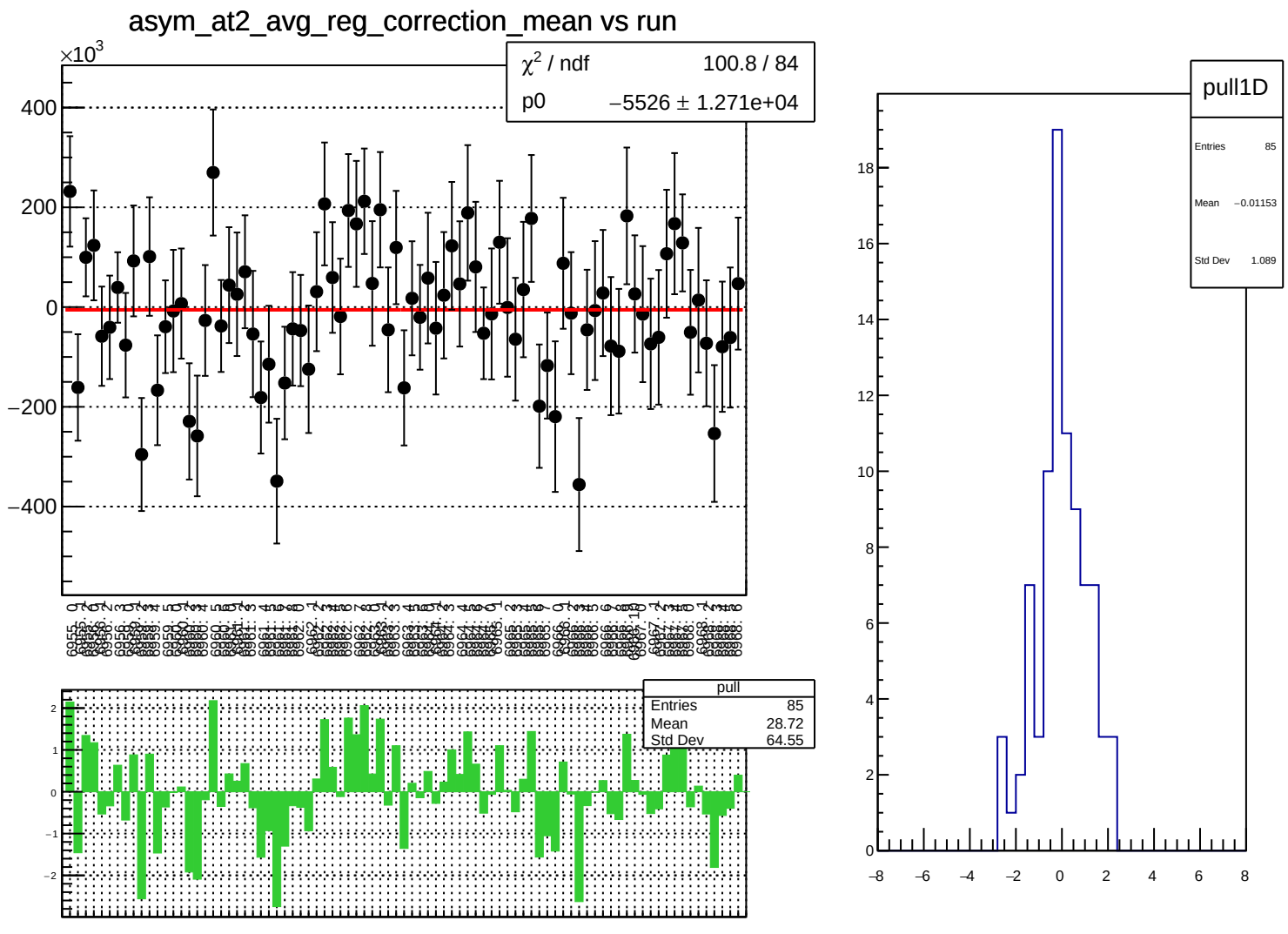

pull1D
Entries 85
Mean −0.05053
Std Dev 0.9587

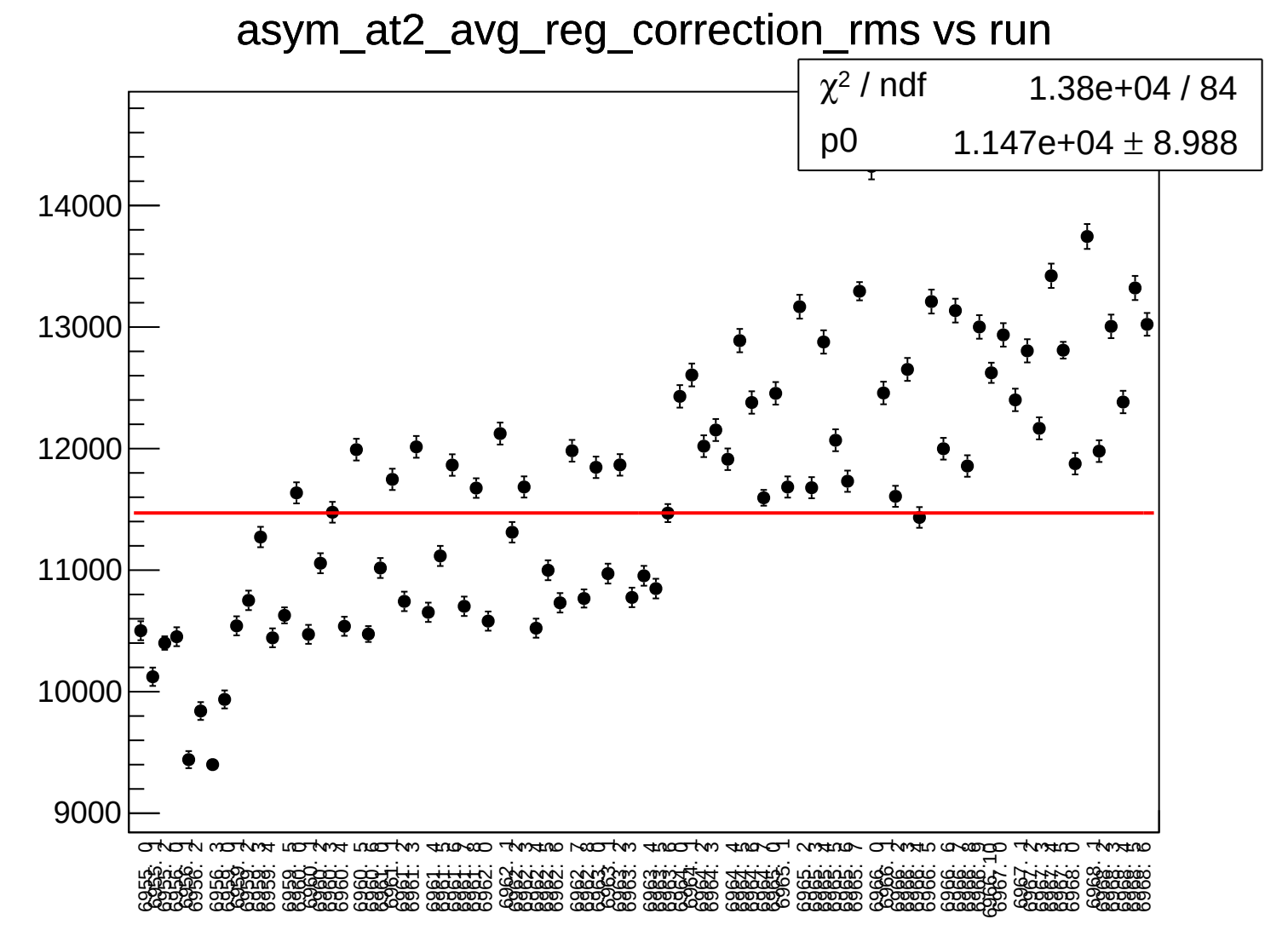

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.614e+05 / 84
p0 9.301e−12 ± 9.39e−15
0.12
0.1
0.08
0.06
0.04
0.02

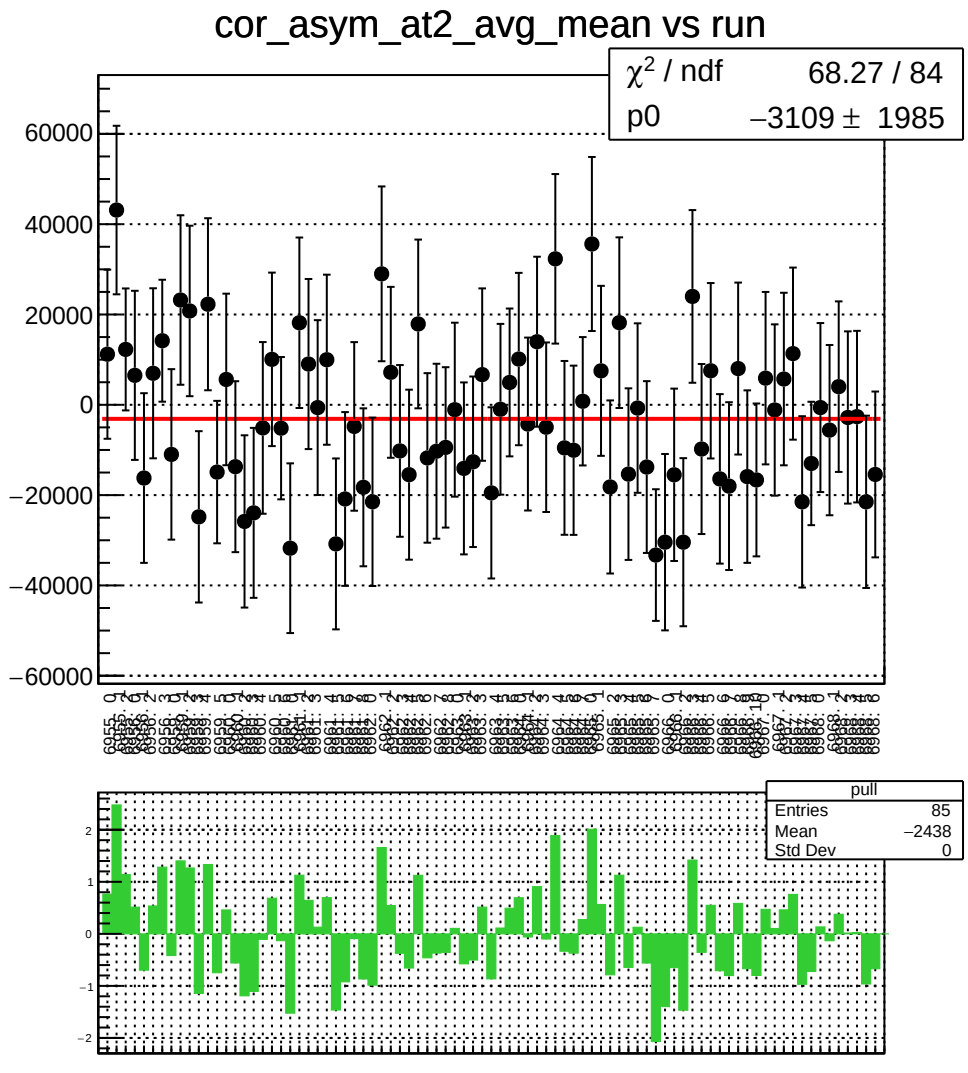

reg_asym_at2_avg_mean vs run
χ² / ndf 68.26 / 84
p0 −3109 ± 1985
pull
Entries 85
Mean −2434
Std Dev 0

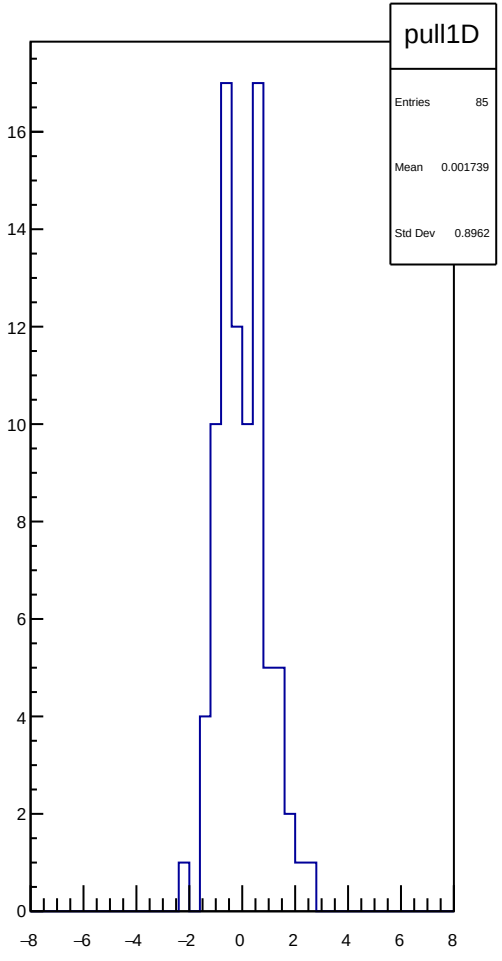

pull1D
Entries 85
Mean 0.001741
Std Dev 0.8962

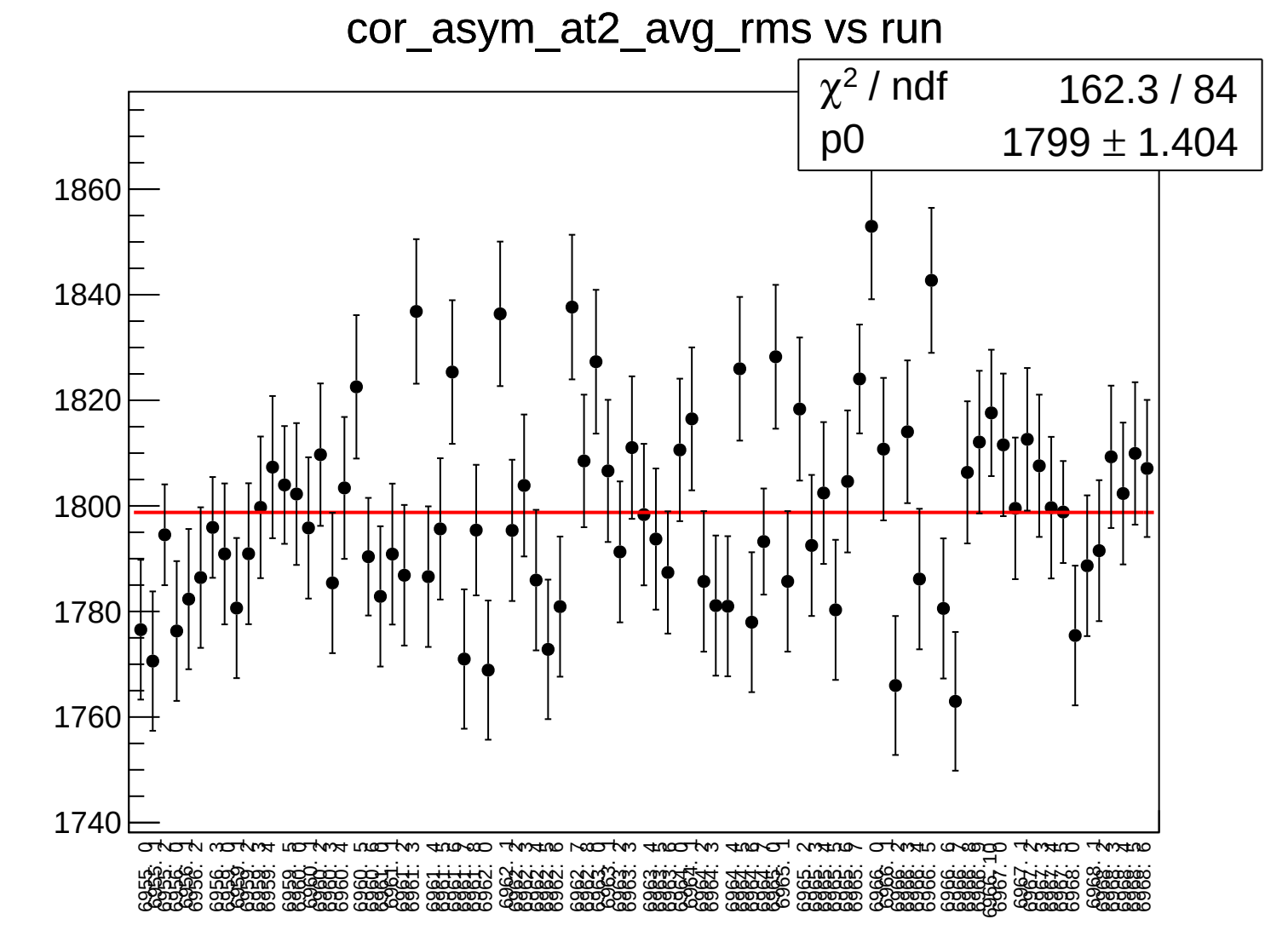

reg_asym_at2_avg_rms vs run
$\chi^2$ / ndf 162.3 / 84
p0 1799 ± 1.404
1860
1840
1820
1800
1780
1760
1740

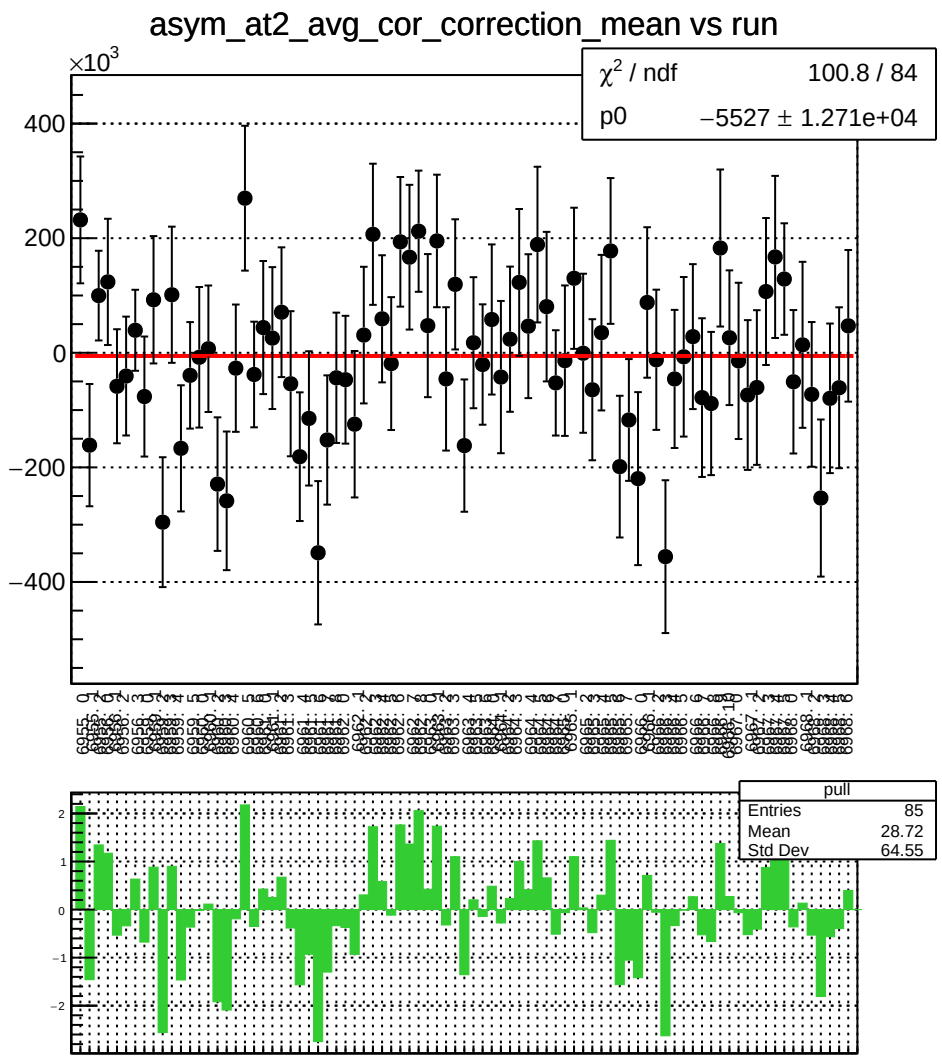

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.8 / 84
p0 −5526 ± 1.271e+04
400
200
0
−200
−400
pull
Entries 85
Mean 28.72
Std Dev 64.55
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01153
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

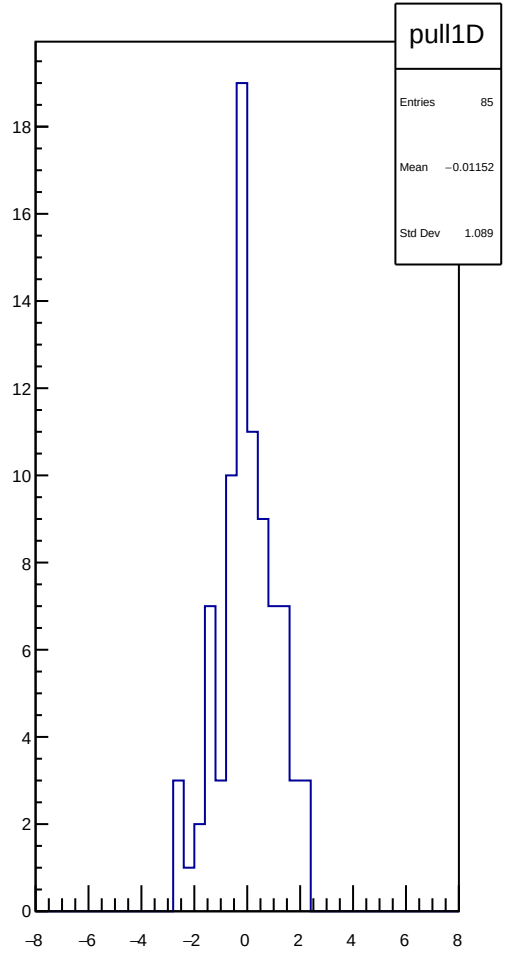

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.38e+04 / 84
p0 1.147e+04 ± 8.988
14000
13000
12000
11000
10000
9000

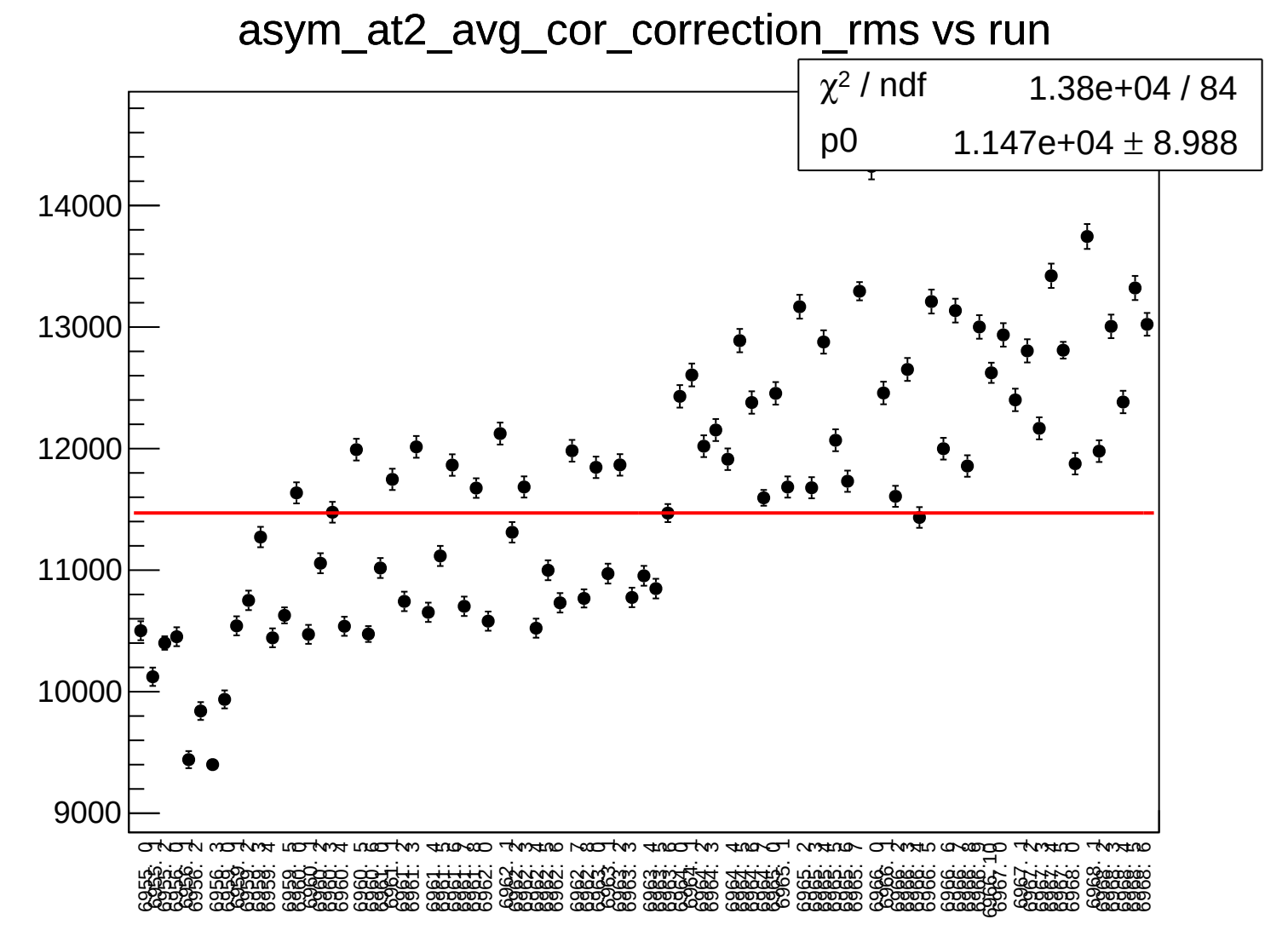

cor_asym_at2_avg_mean vs run
χ² / ndf 68.27 / 84
p0 −3109 ± 1985
pull
Entries 85
Mean −2438
Std Dev 0

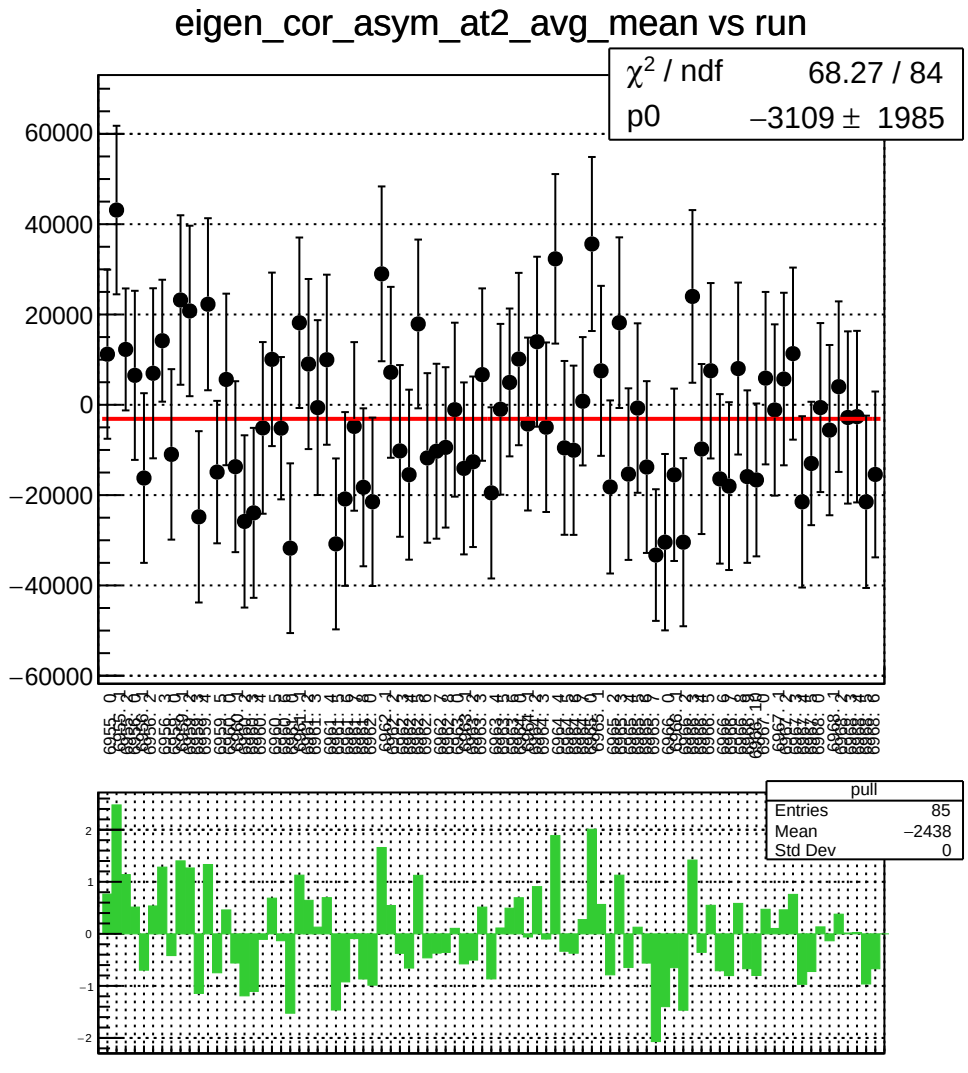

pull1D
Entries 85
Mean 0.001739
Std Dev 0.8962

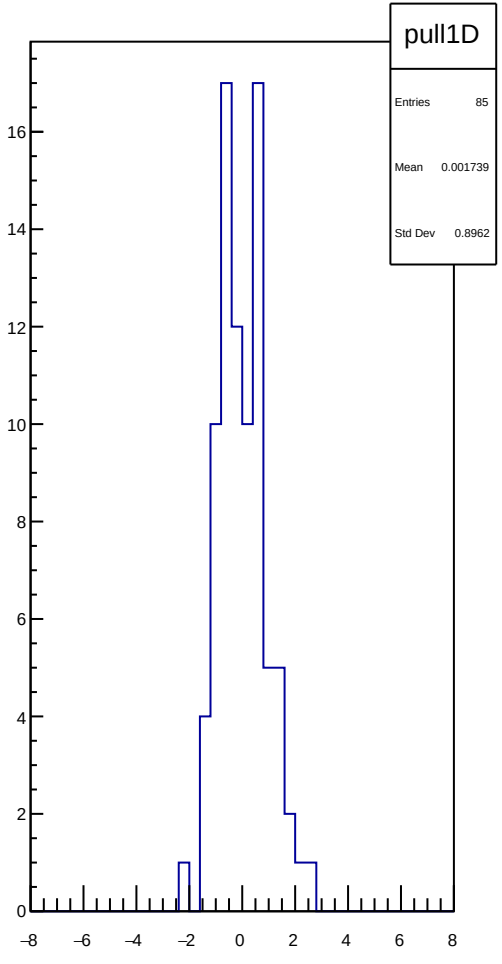

cor_asym_at2_avg_rms vs run
$\chi^2$ / ndf 162.3 / 84
p0 1799 ± 1.404
1860
1840
1820
1800
1780
1760
1740

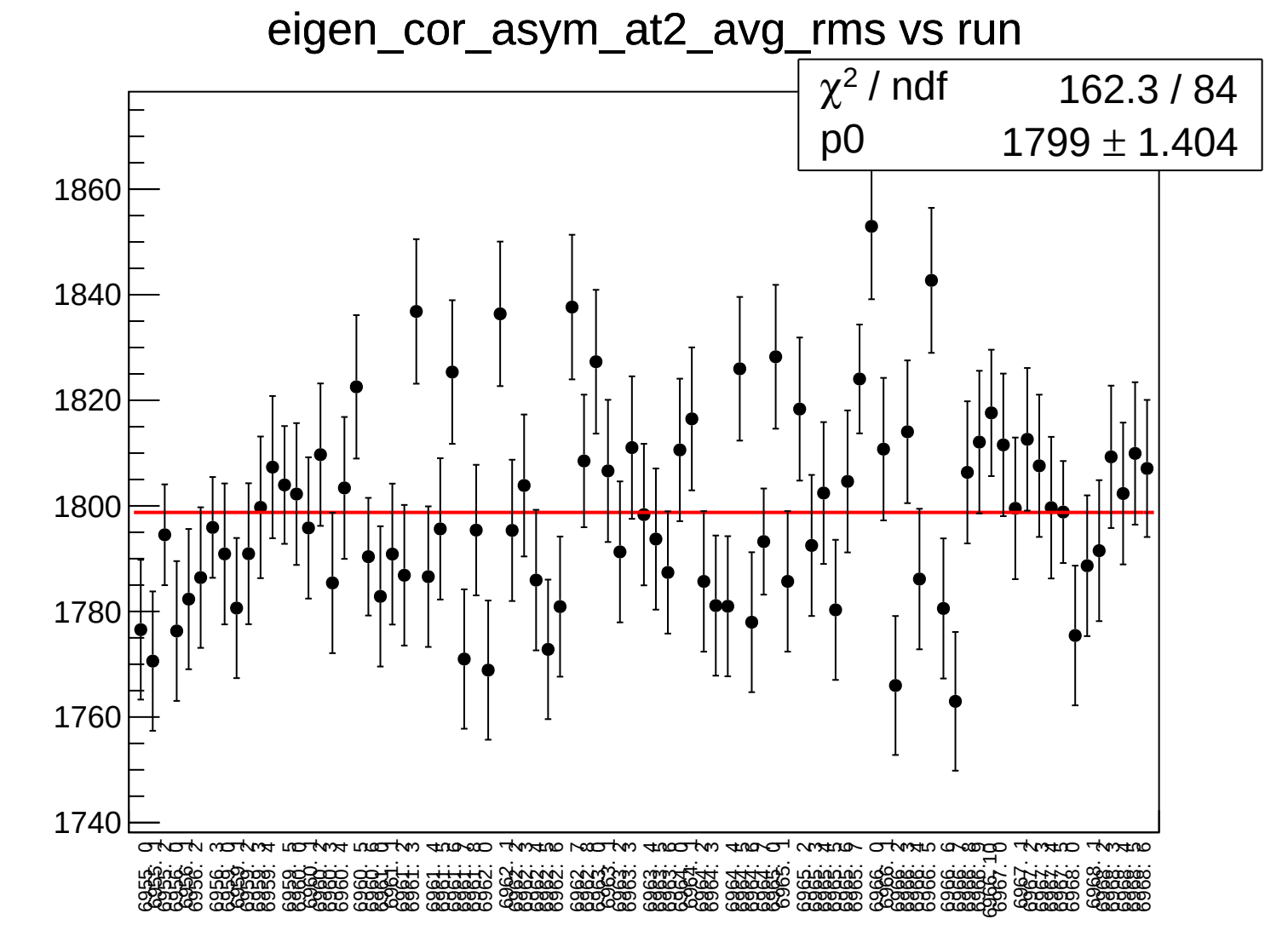

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.8 / 84
p0 −5527 ± 1.271e+04
400
200
0
−200
−400
pull
Entries 85
Mean 28.72
Std Dev 64.55
2
1
0
−1
−2

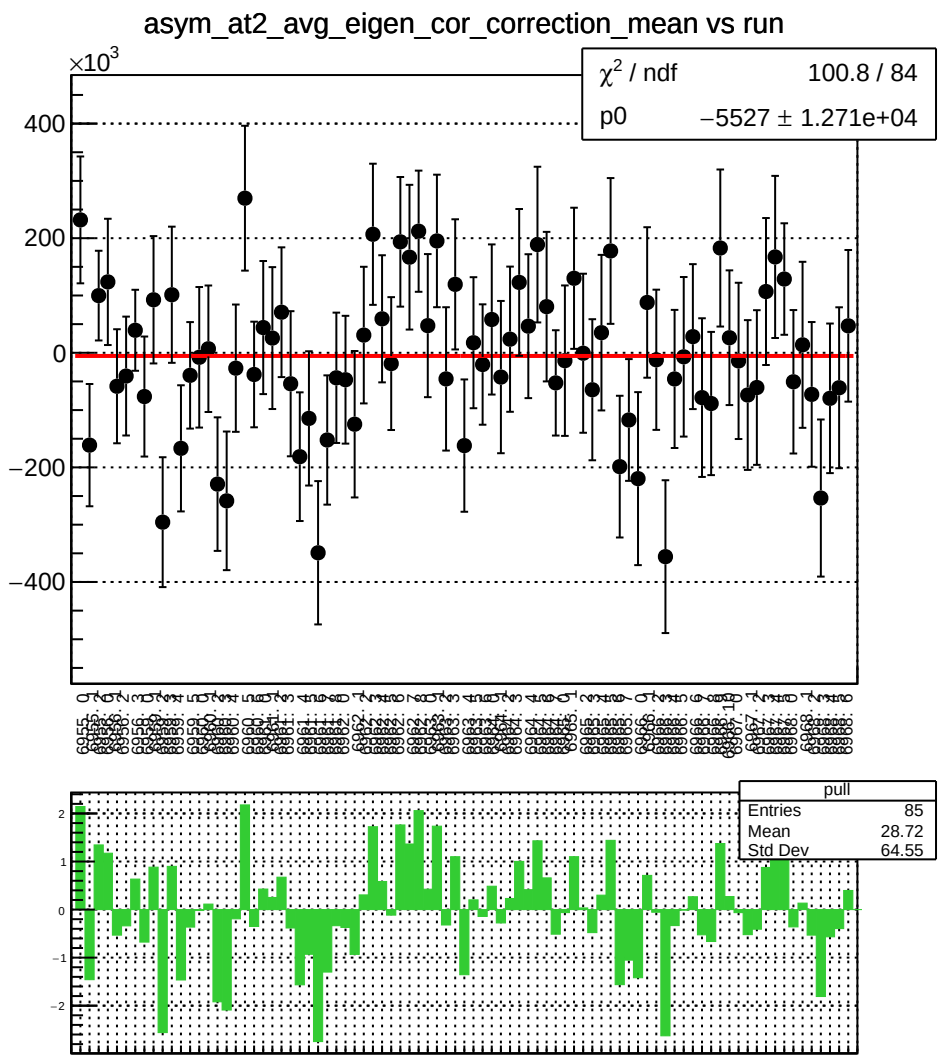

pull1D
Entries 85
Mean −0.01152
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

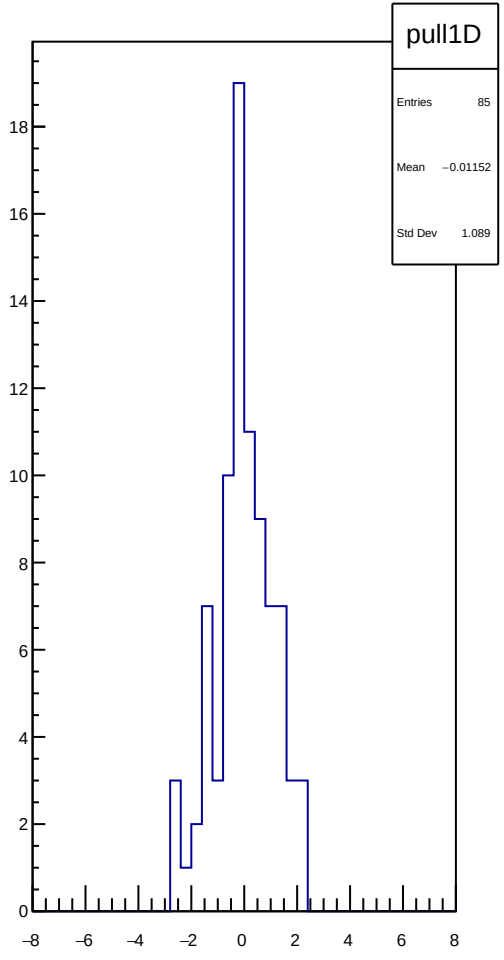

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.38e+04 / 84
p0 1.147e+04 ± 8.988
14000
13000
12000
11000
10000
9000

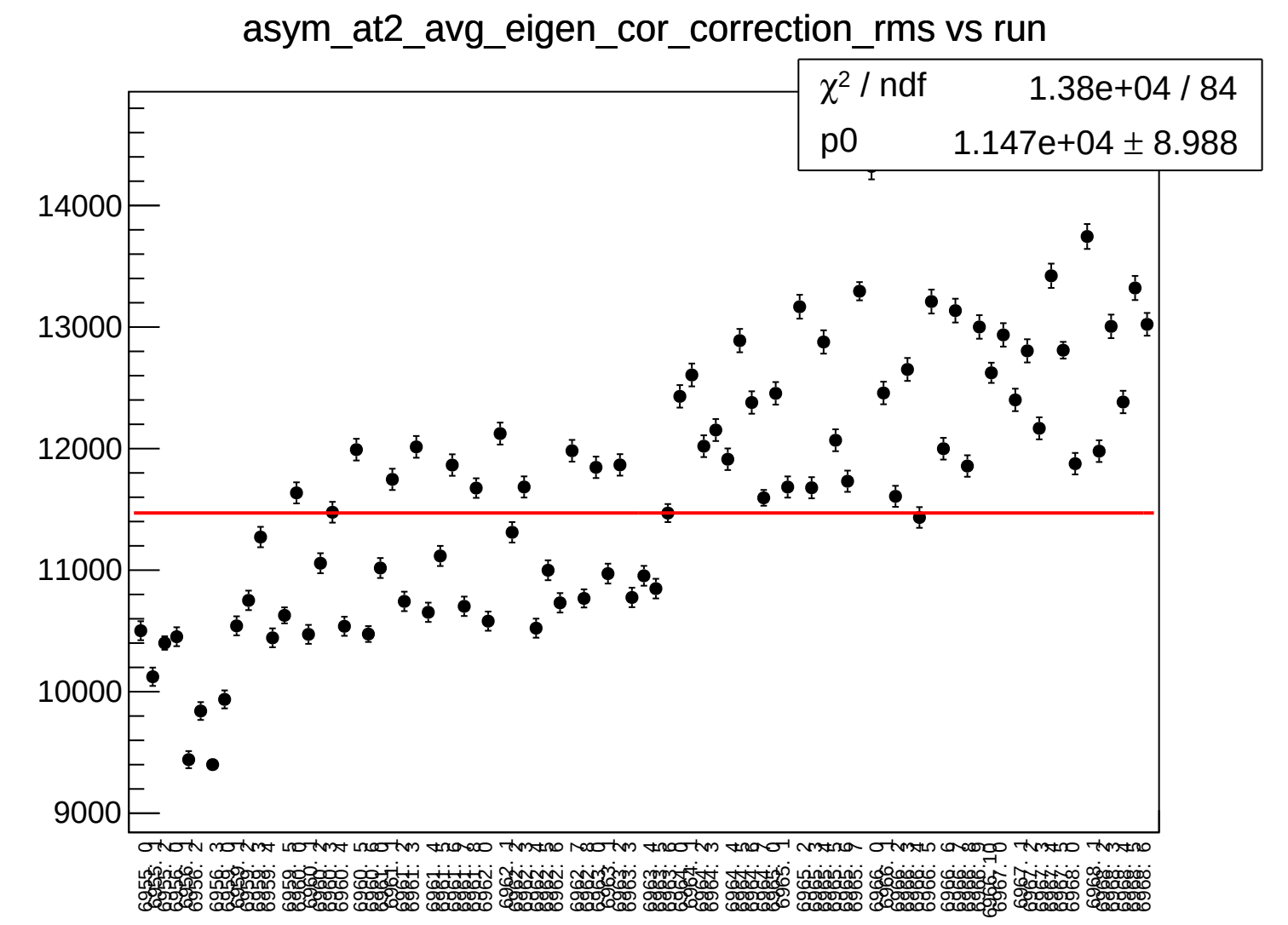

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 68.27 / 84
p0 −3109 ± 1985
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −2438
Std Dev 0
2
1
0
−1
−2

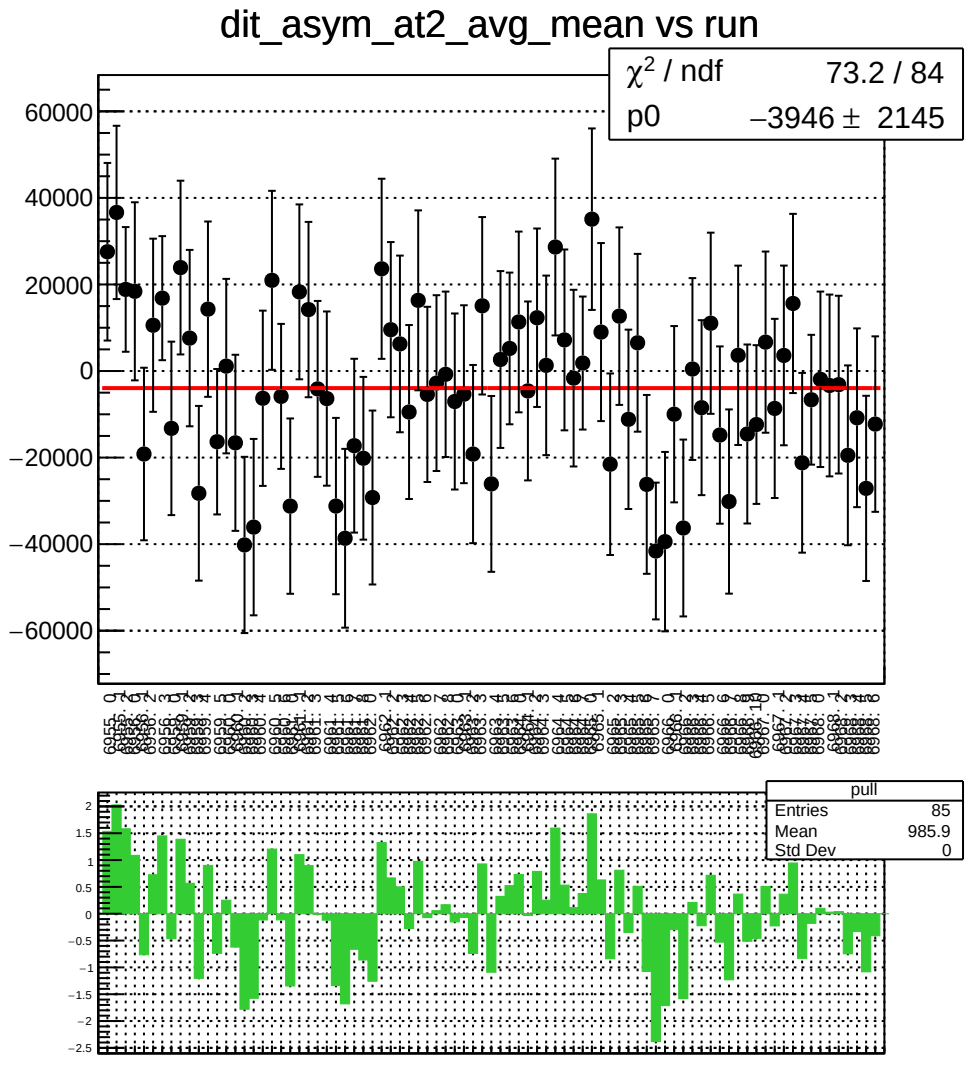

pull1D
Entries 85
Mean 0.001739
Std Dev 0.8962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

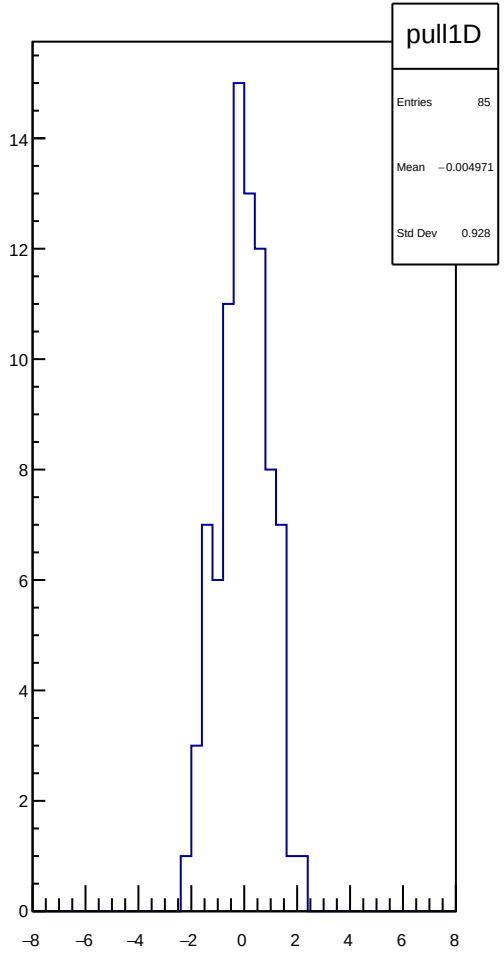

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 162.3 / 84
p0 1799 ± 1.404
1860
1840
1820
1800
1780
1760
1740

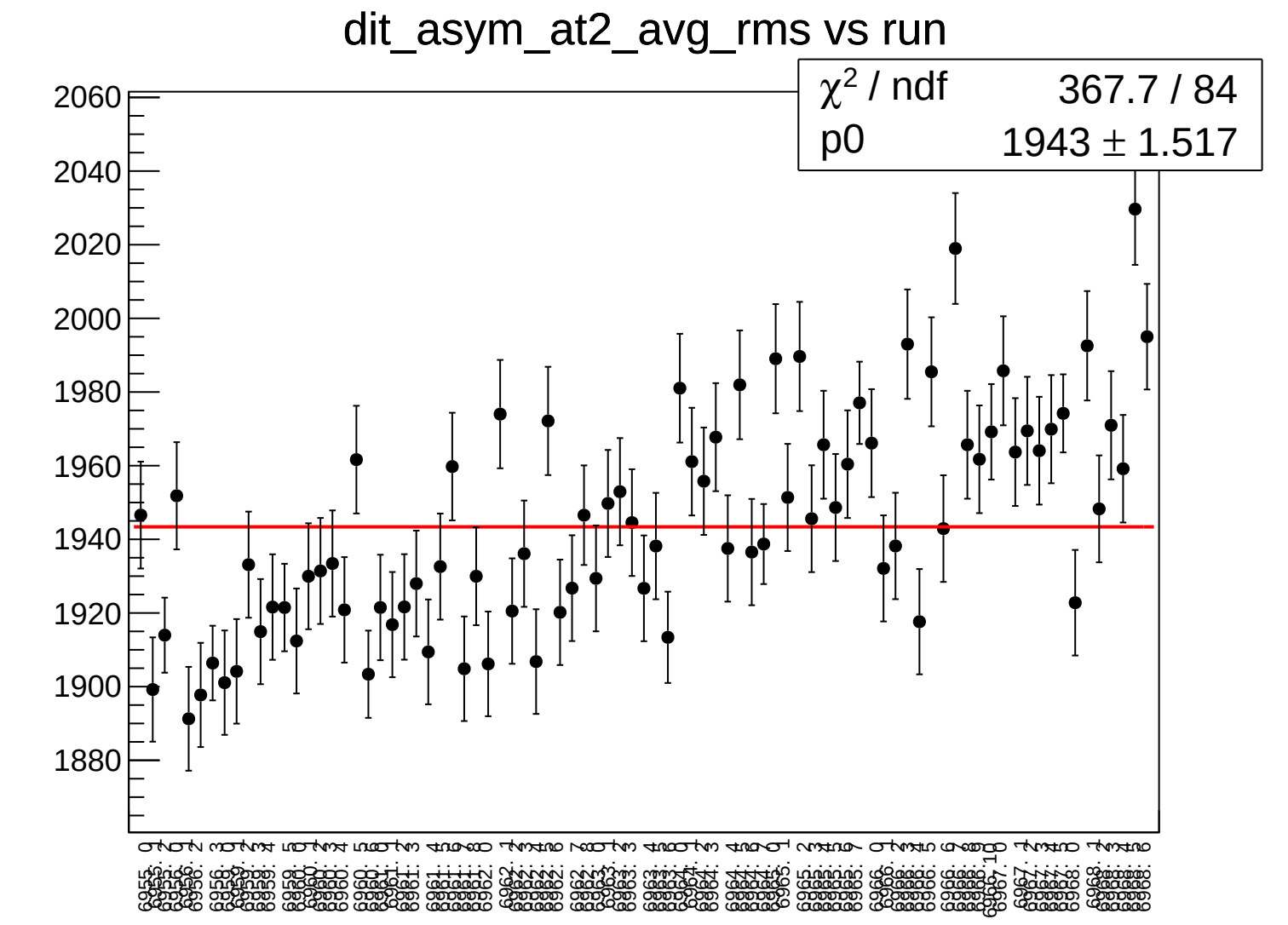

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.8 / 84
p0 −5527 ± 1.271e+04
400
200
0
−200
−400
pull
Entries 85
Mean 28.72
Std Dev 64.55
2
1
0
−1
−2

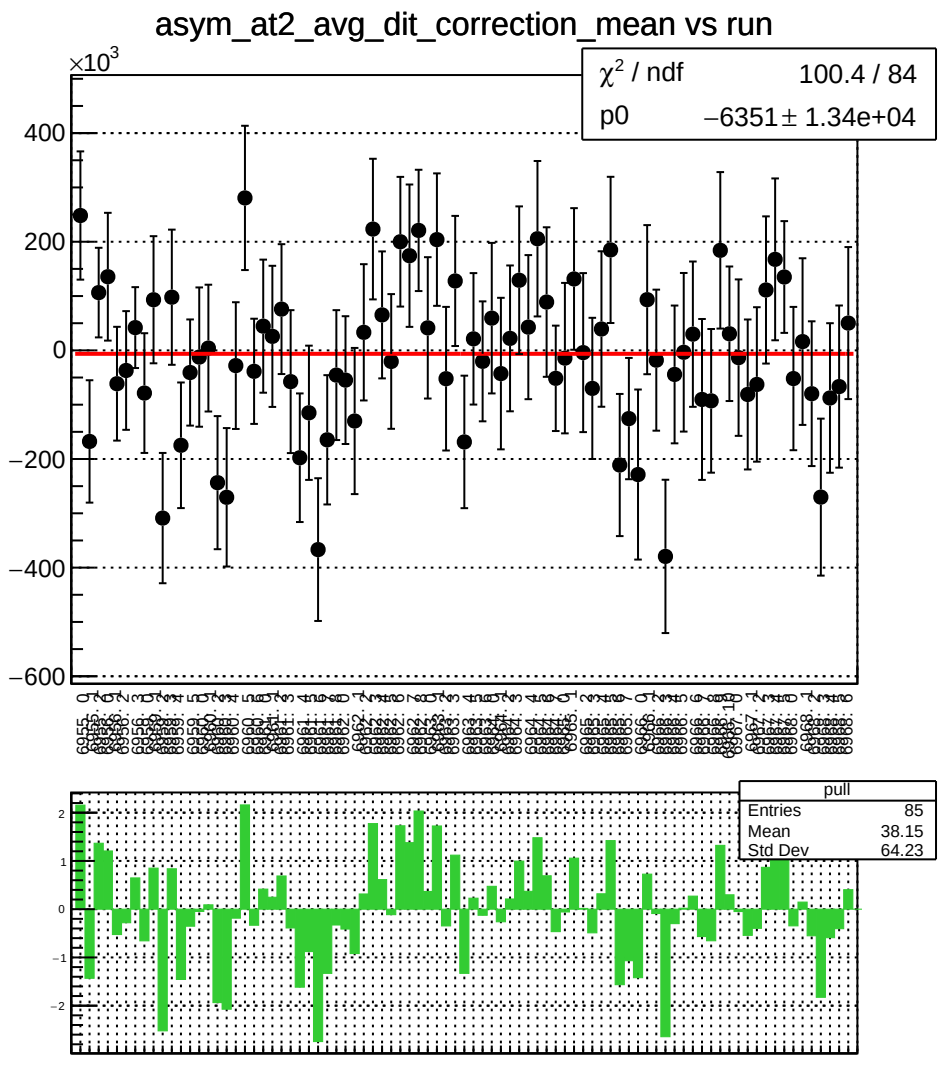

pull1D
Entries 85
Mean −0.01152
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

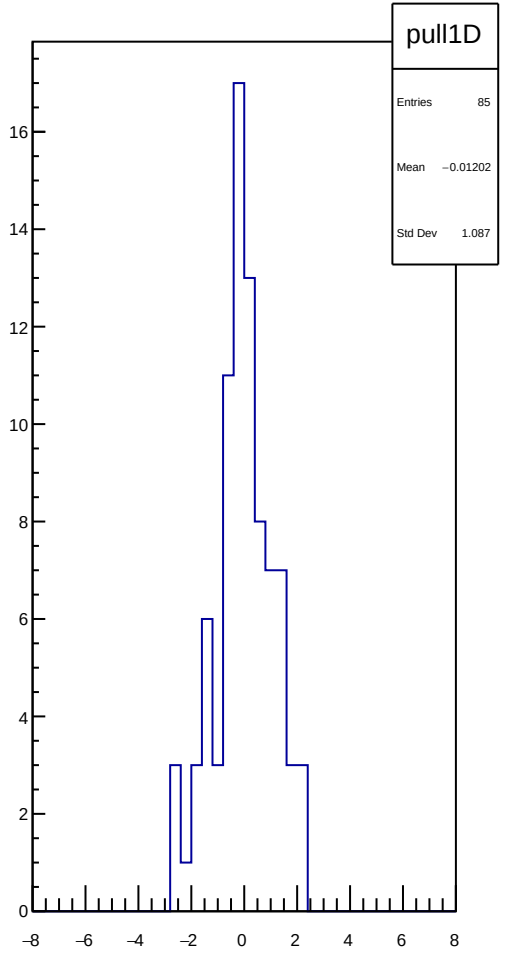

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.38e+04 / 84
p0 1.147e+04 ± 8.988
14000
13000
12000
11000
10000
9000

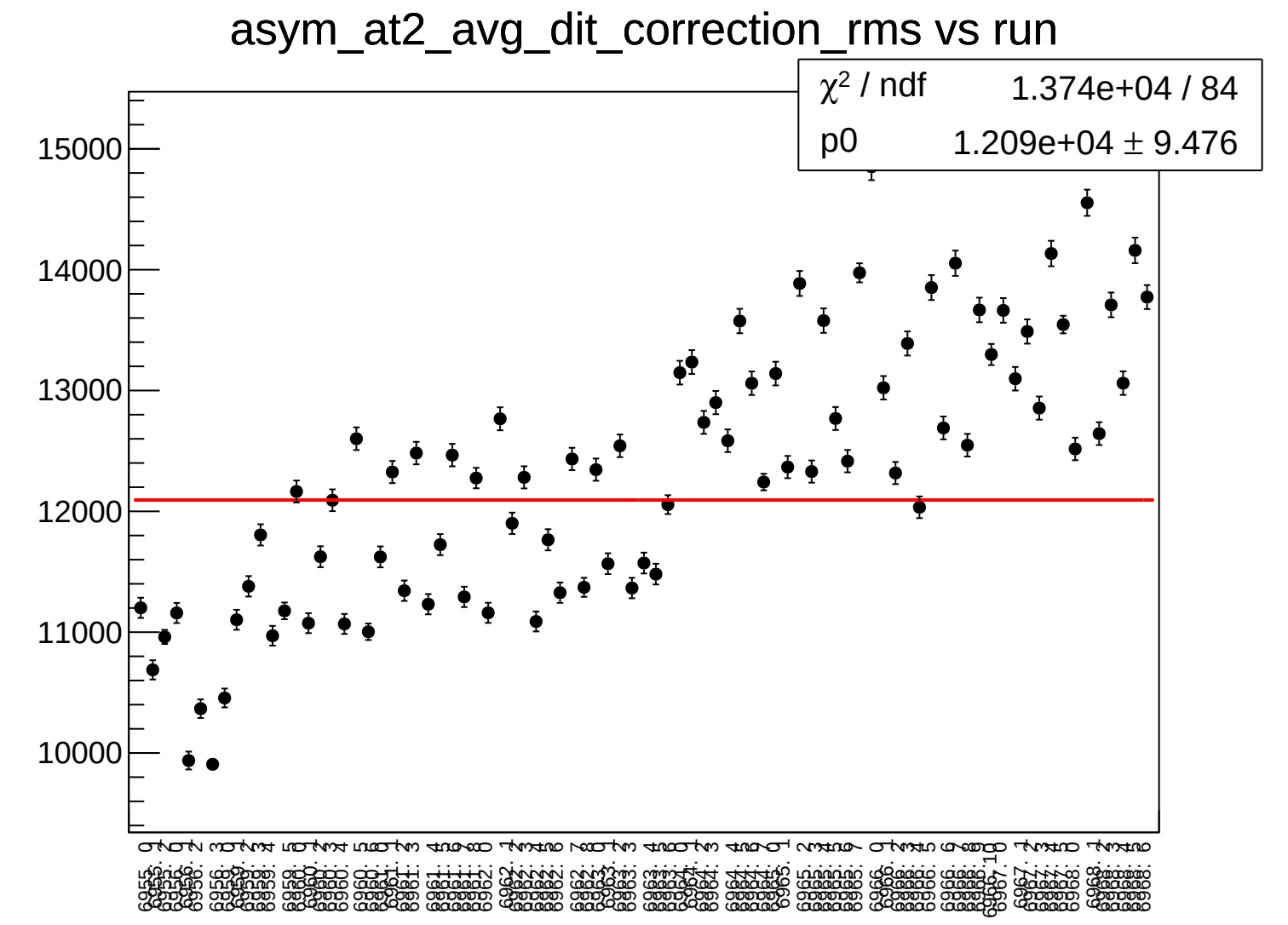

dit_asym_at2_avg_mean vs run
χ² / ndf 73.2 / 84
p0 −3946 ± 2145
pull
Entries 85
Mean 985.9
Std Dev 0

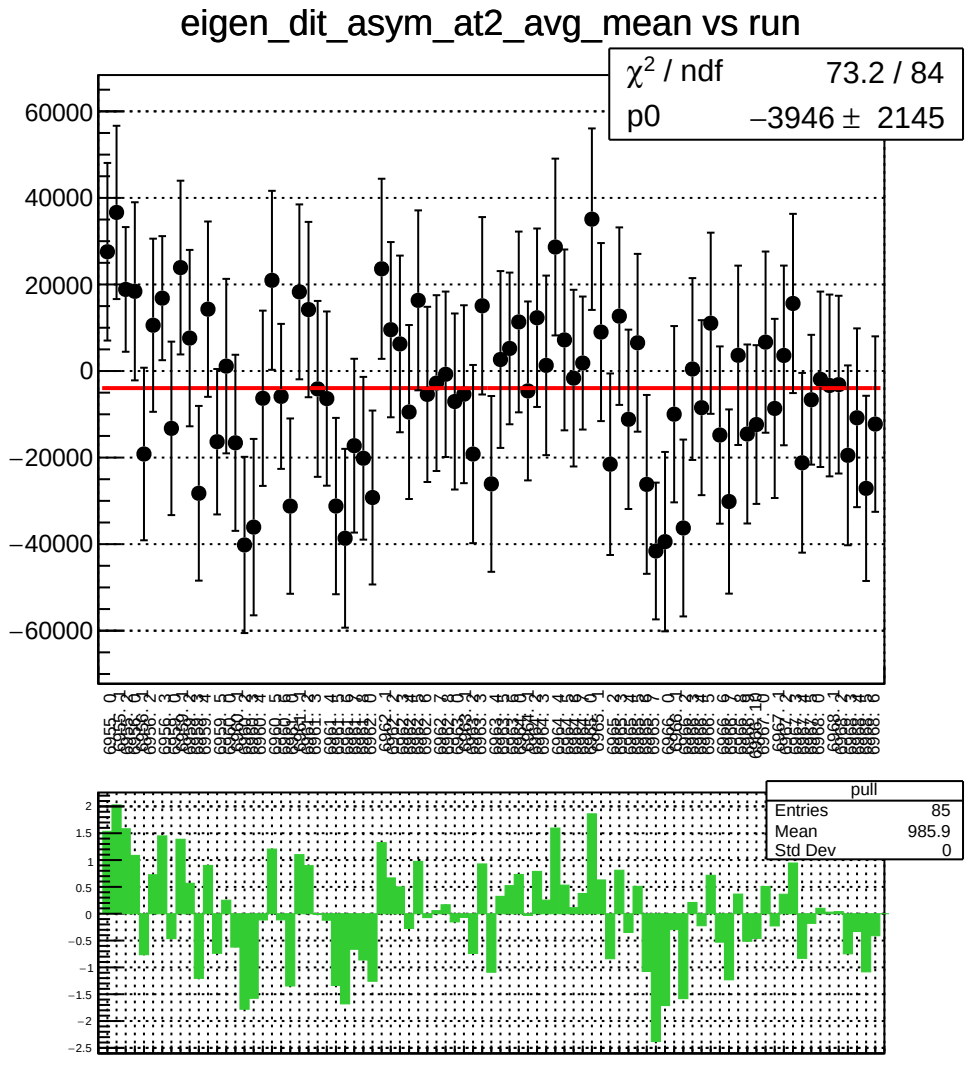

pull1D
Entries 85
Mean −0.004971
Std Dev 0.928

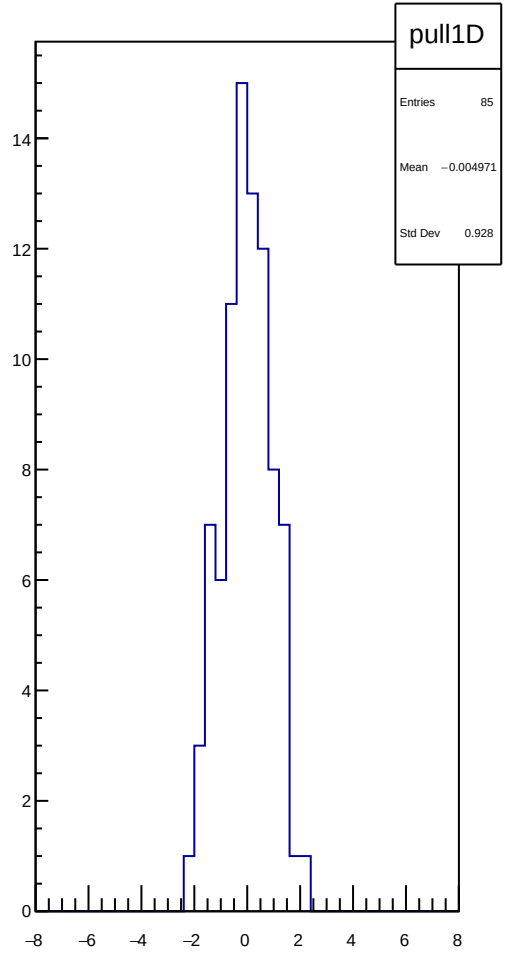

dit_asym_at2_avg_rms vs run
$\chi^2$ / ndf 367.7 / 84
p0 1943 ± 1.517
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

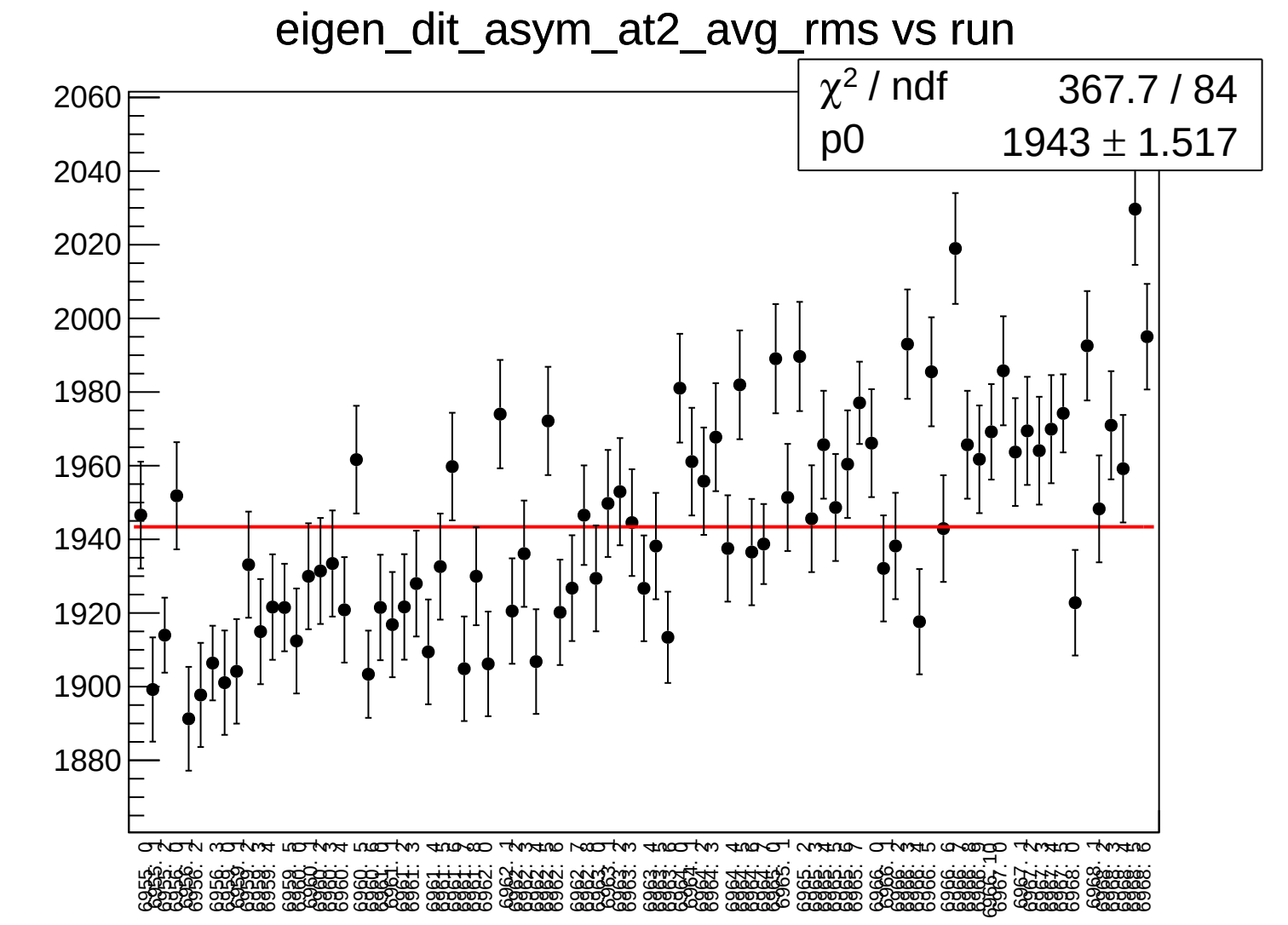

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 100.4 / 84
p0 −6351 ± 1.34e+04
400
200
0
−200
−400
−600
pull
Entries 85
Mean 38.15
Std Dev 64.23
2
1
0
−1
−2

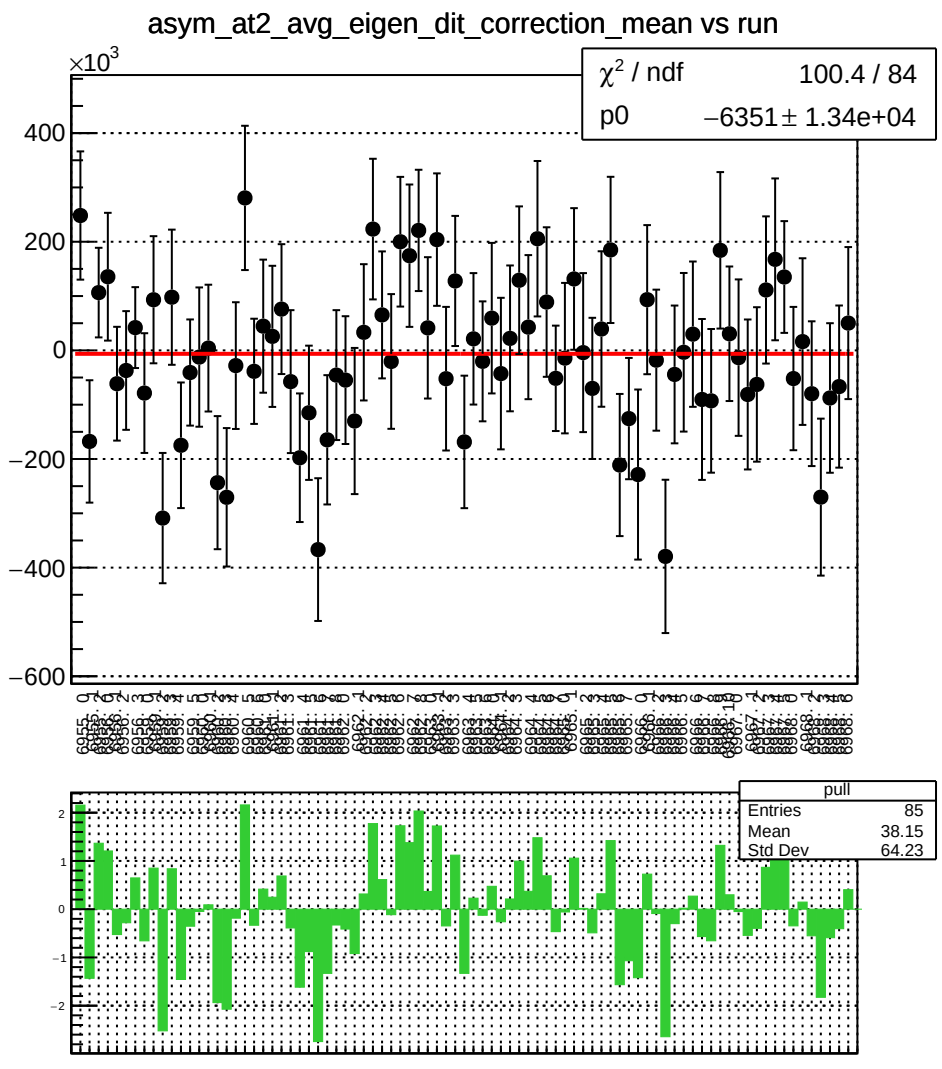

pull1D
Entries 85
Mean −0.01202
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

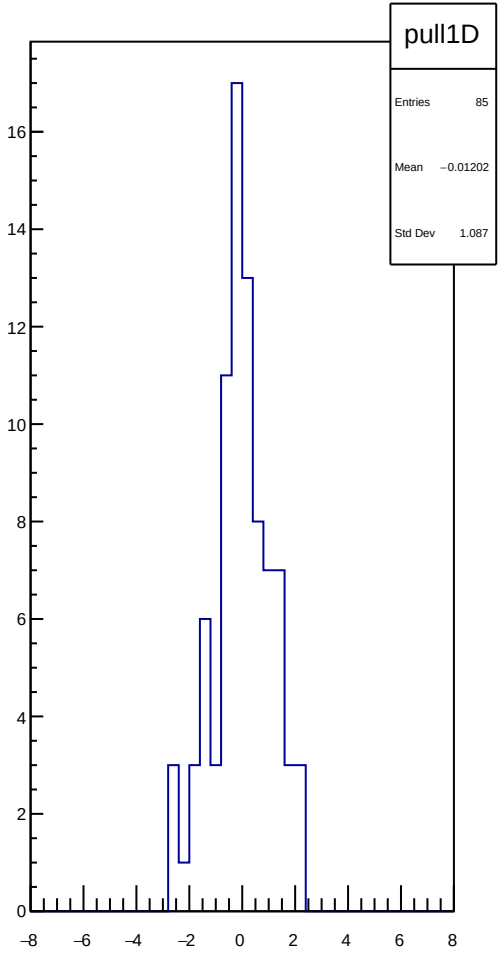

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1.374e+04 / 84
p0 1.209e+04 ± 9.476
15000
14000
13000
12000
11000
10000

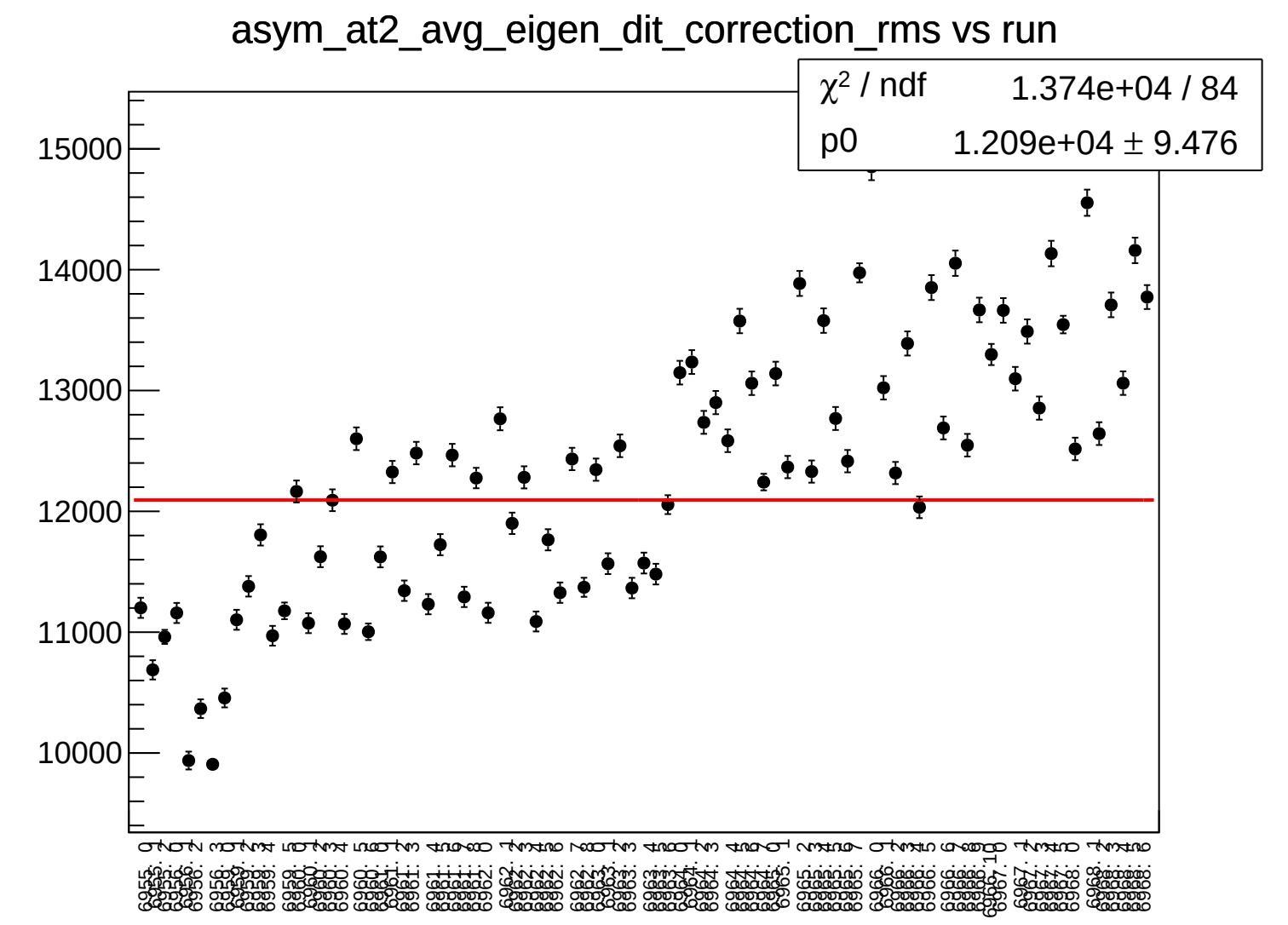

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 73.2 / 84
p0 −3946 ± 2145
pull
Entries 85
Mean 985.9
Std Dev 0

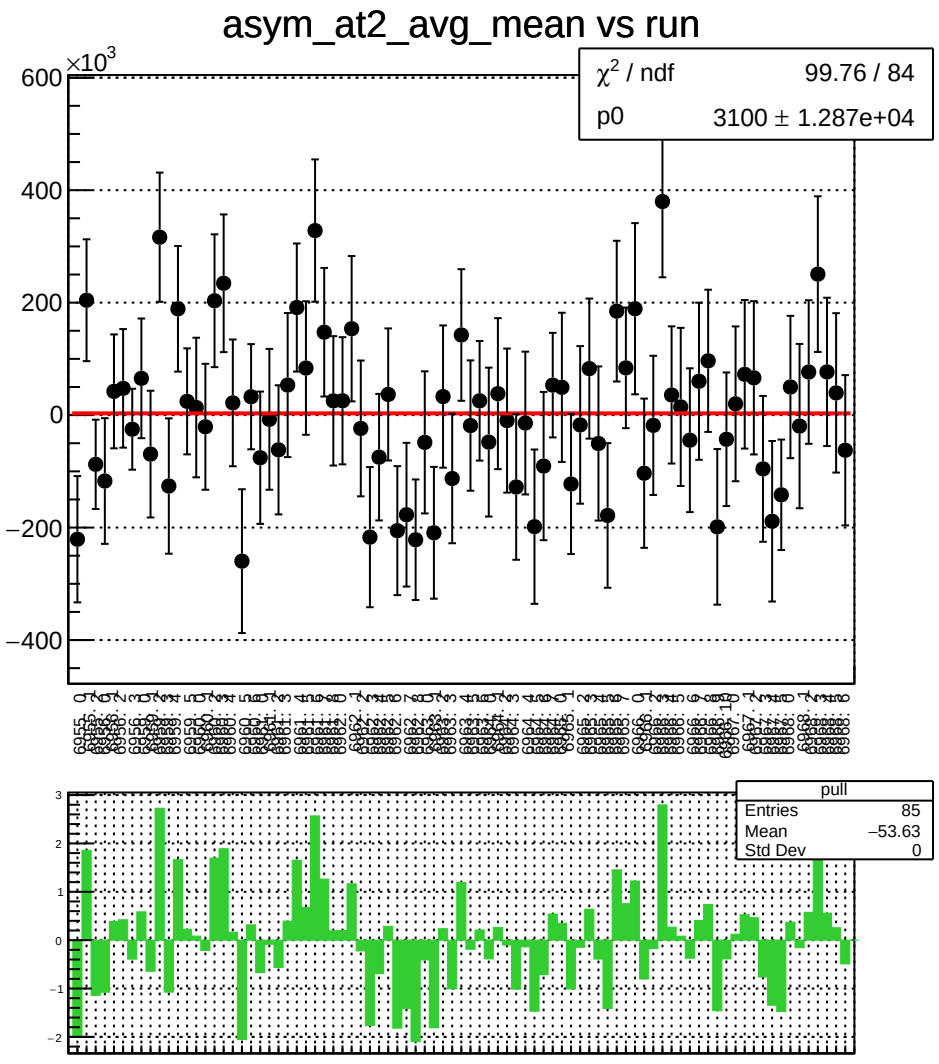

pull1D
Entries 85
Mean −0.004971
Std Dev 0.928

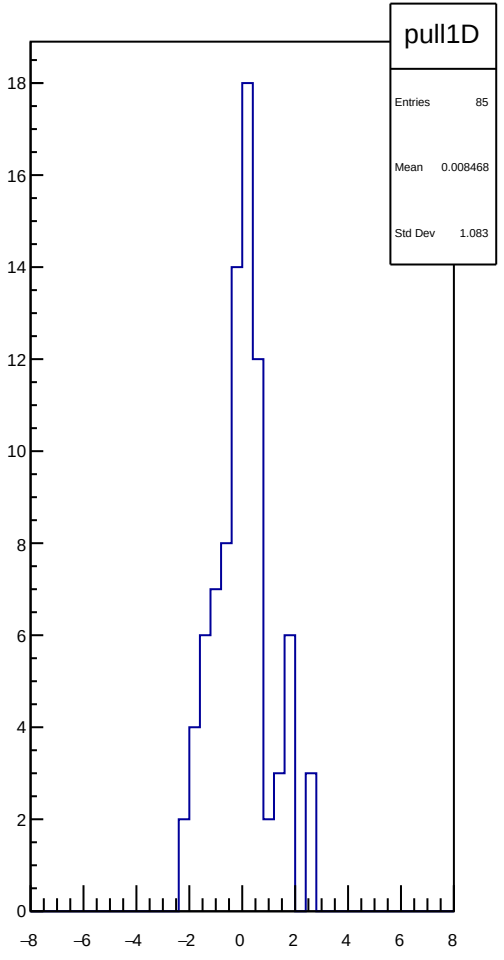

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 367.7 / 84
p0 1943 ± 1.517
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

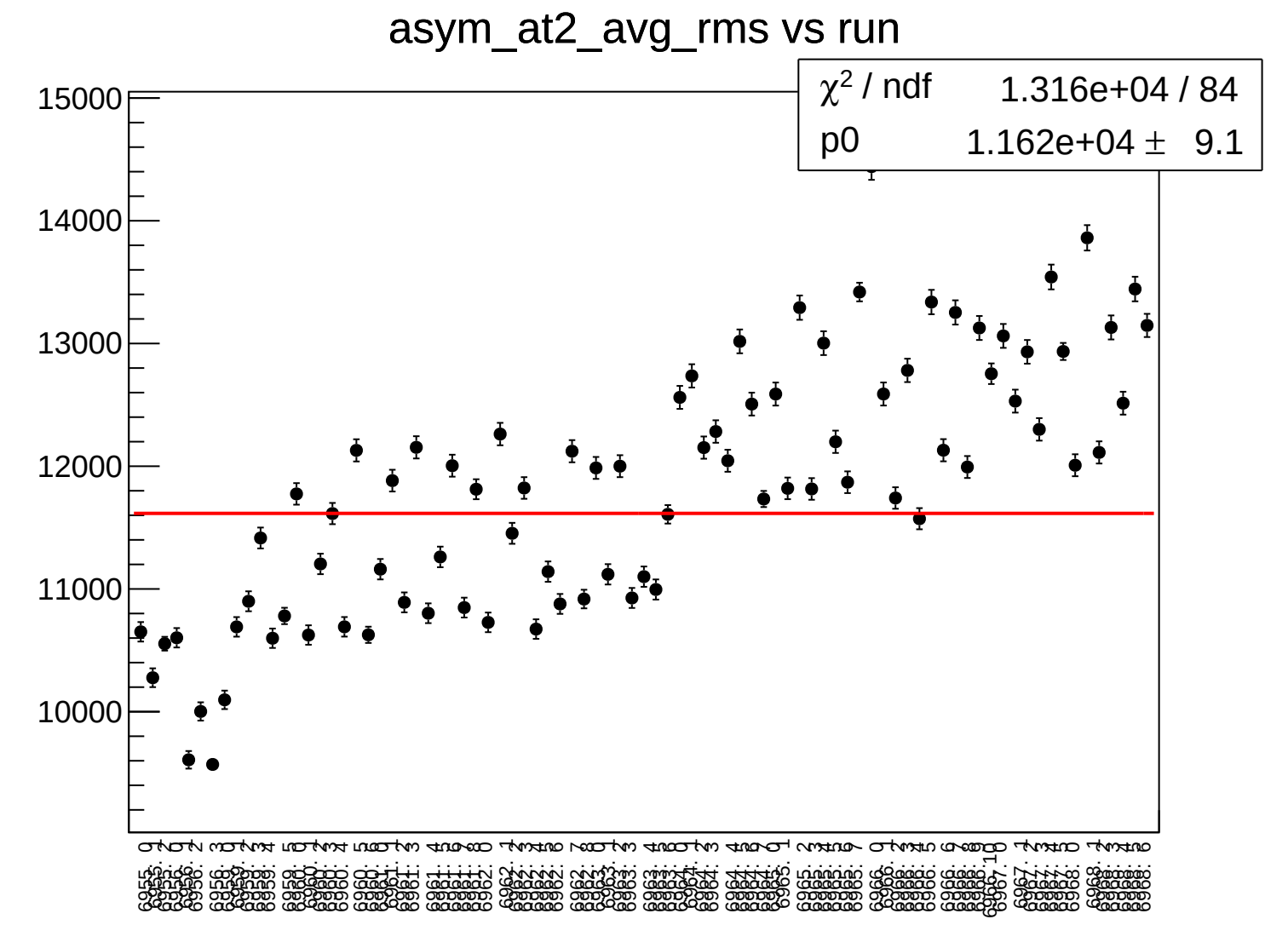

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.4 / 84
p0 −6351 ± 1.34e+04
400
200
0
−200
−400
−600
pull
Entries 85
Mean 38.15
Std Dev 64.23
2
1
0
−1
−2

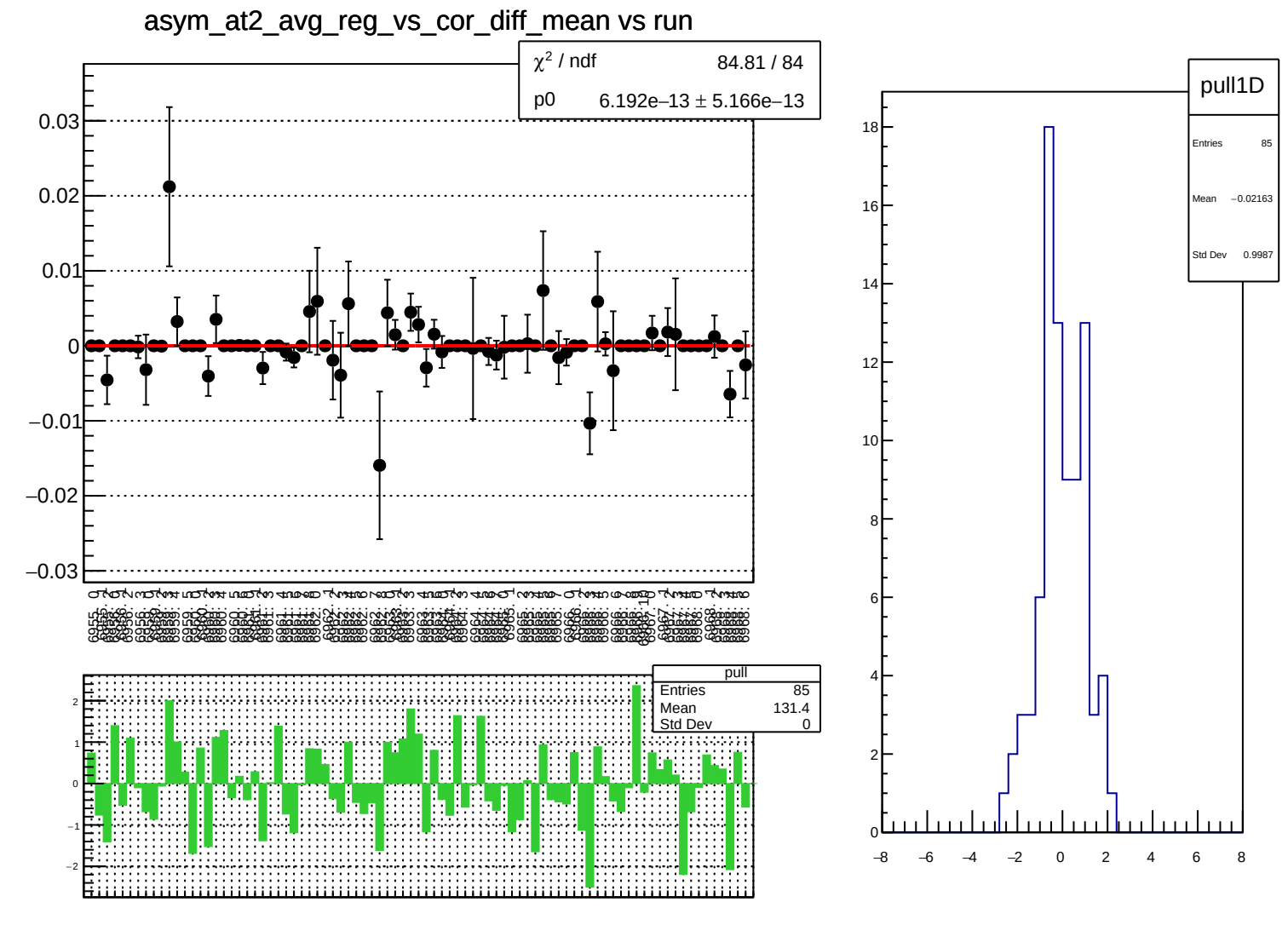

pull1D
Entries 85
Mean −0.01202
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

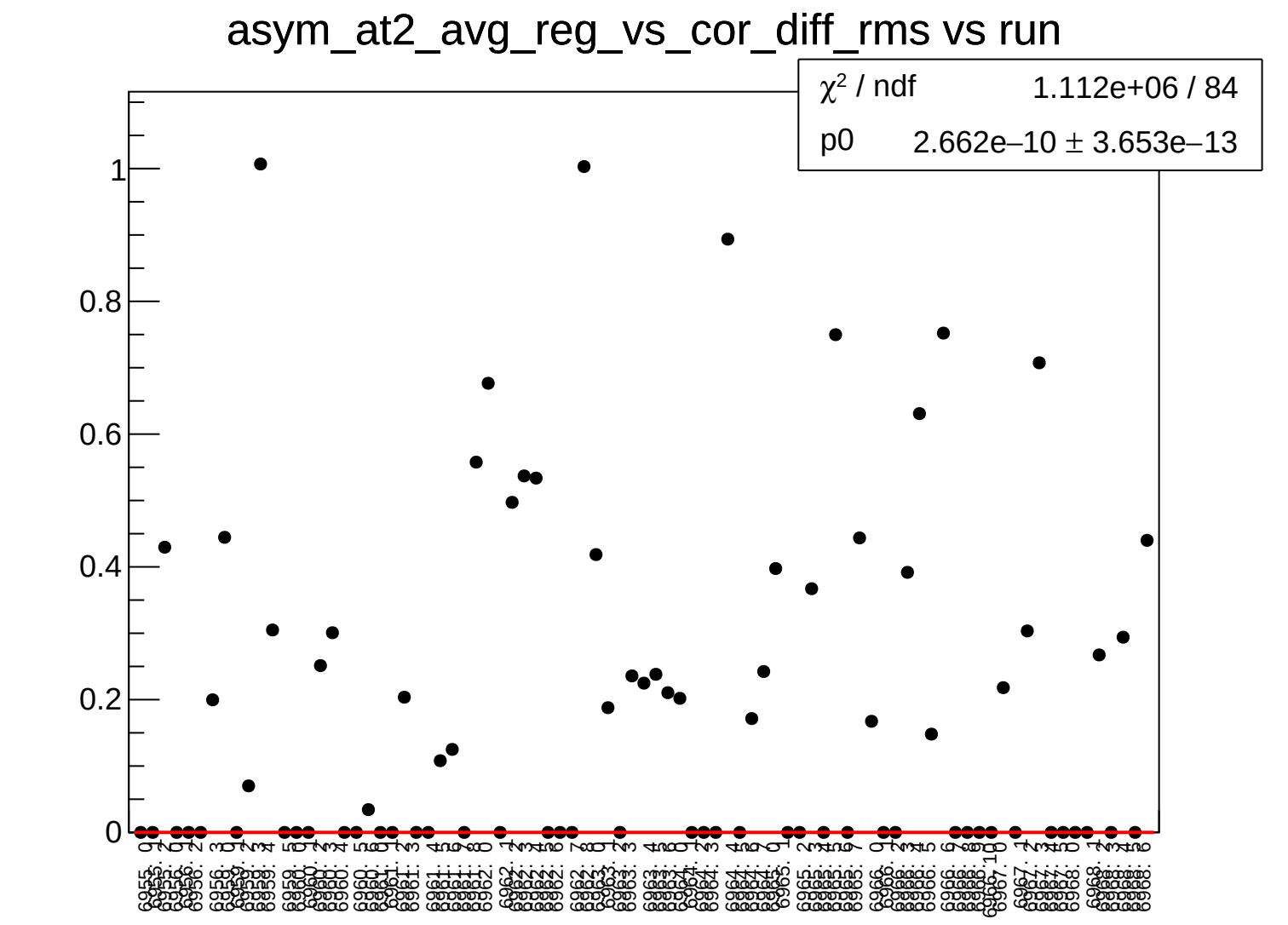

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.374e+04 / 84
p0 1.209e+04 ± 9.476
15000
14000
13000
12000
11000
10000

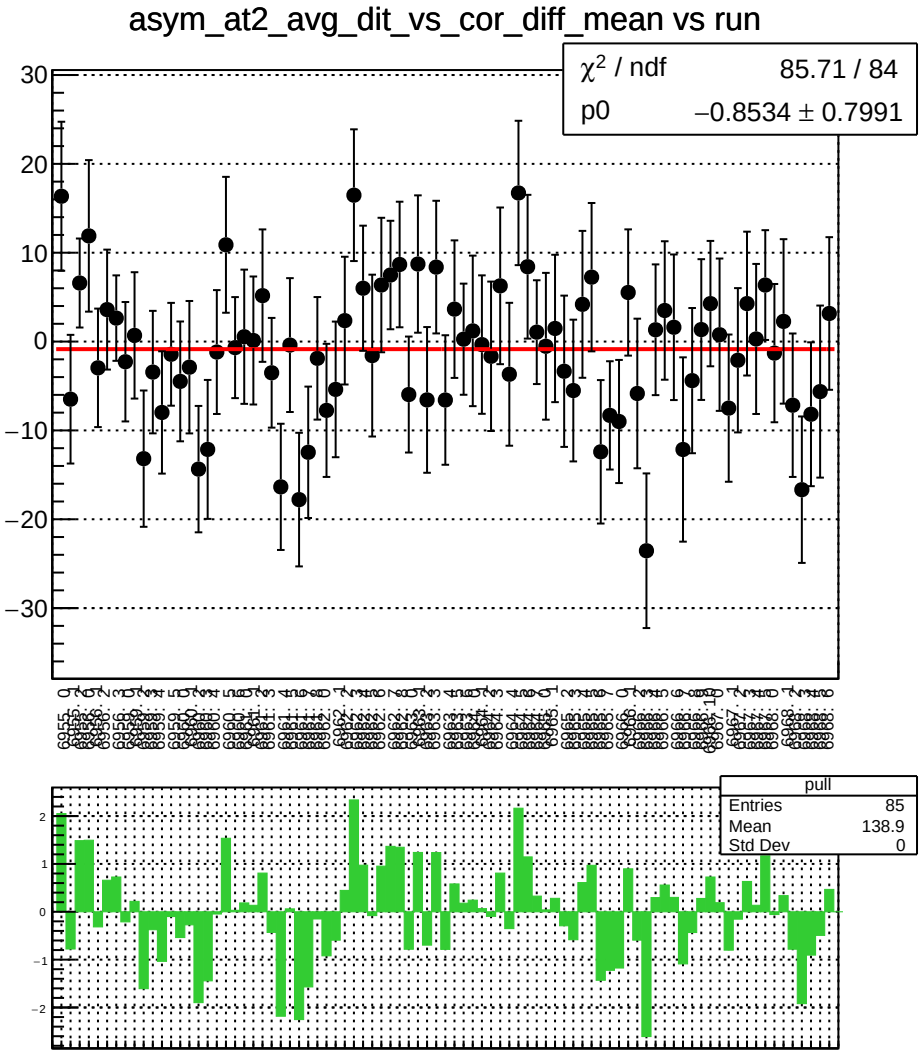

asym_at2_avg_mean vs run
χ² / ndf 99.76 / 84
p0 3100 ± 1.287e+04
×10³
pull
Entries 85
Mean −53.63
Std Dev 0

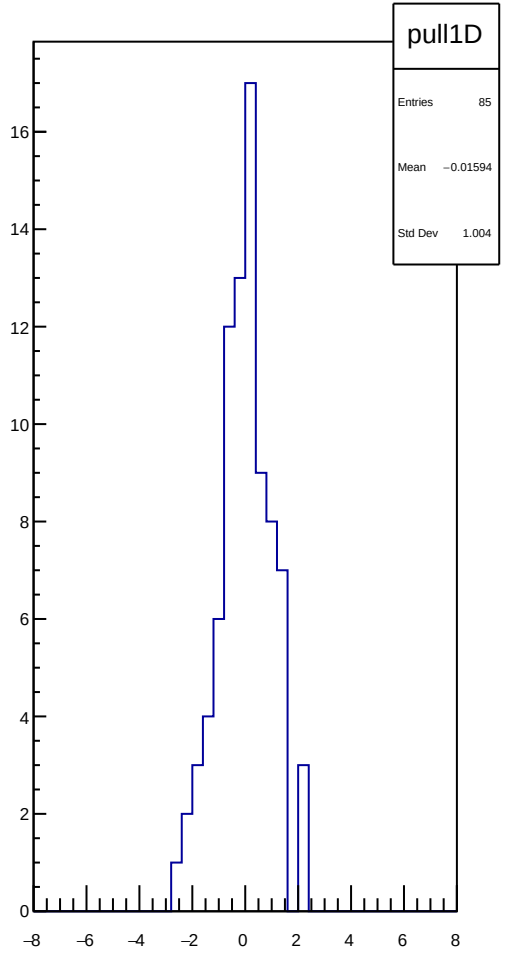

pull1D
Entries 85
Mean 0.008468
Std Dev 1.083

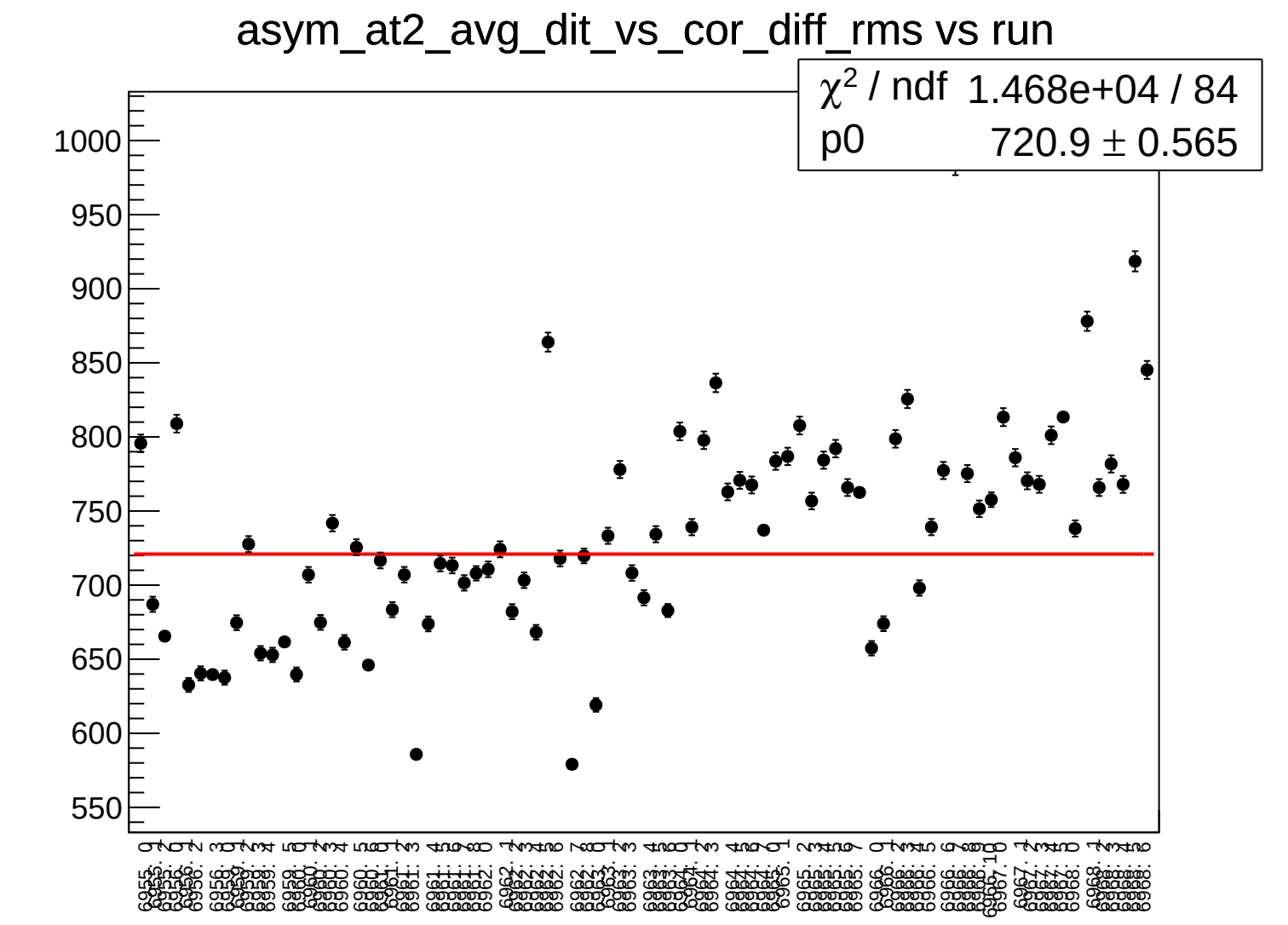

asym_at2_avg_rms vs run
$\chi^2$ / ndf 1.316e+04 / 84
p0 1.162e+04 ± 9.1
15000
14000
13000
12000
11000
10000

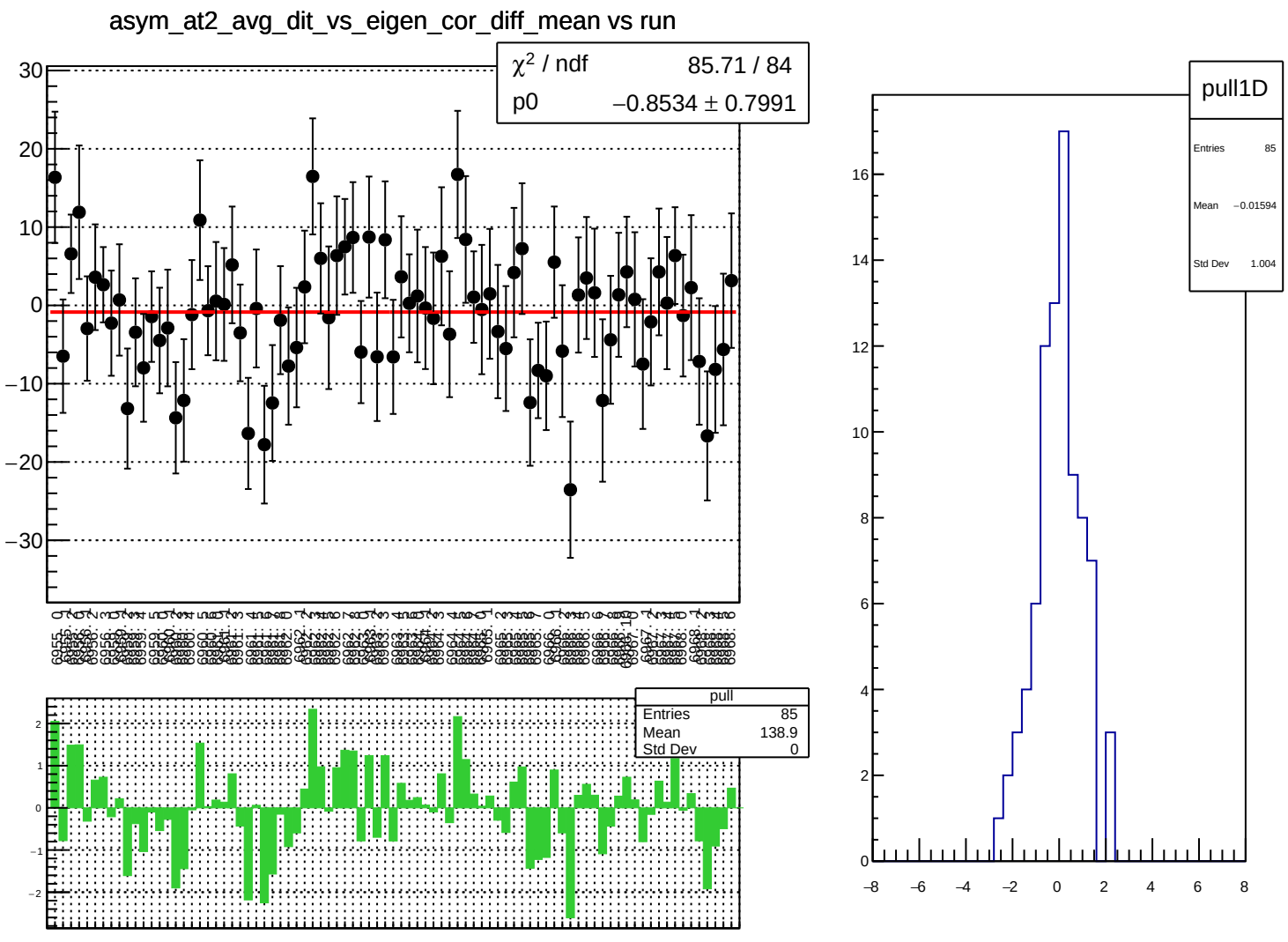

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.81 / 84
p0 6.192e−13 ± 5.166e−13
pull
Entries 85
Mean 131.4
Std Dev 0
pull1D
Entries 85
Mean −0.02163
Std Dev 0.9987

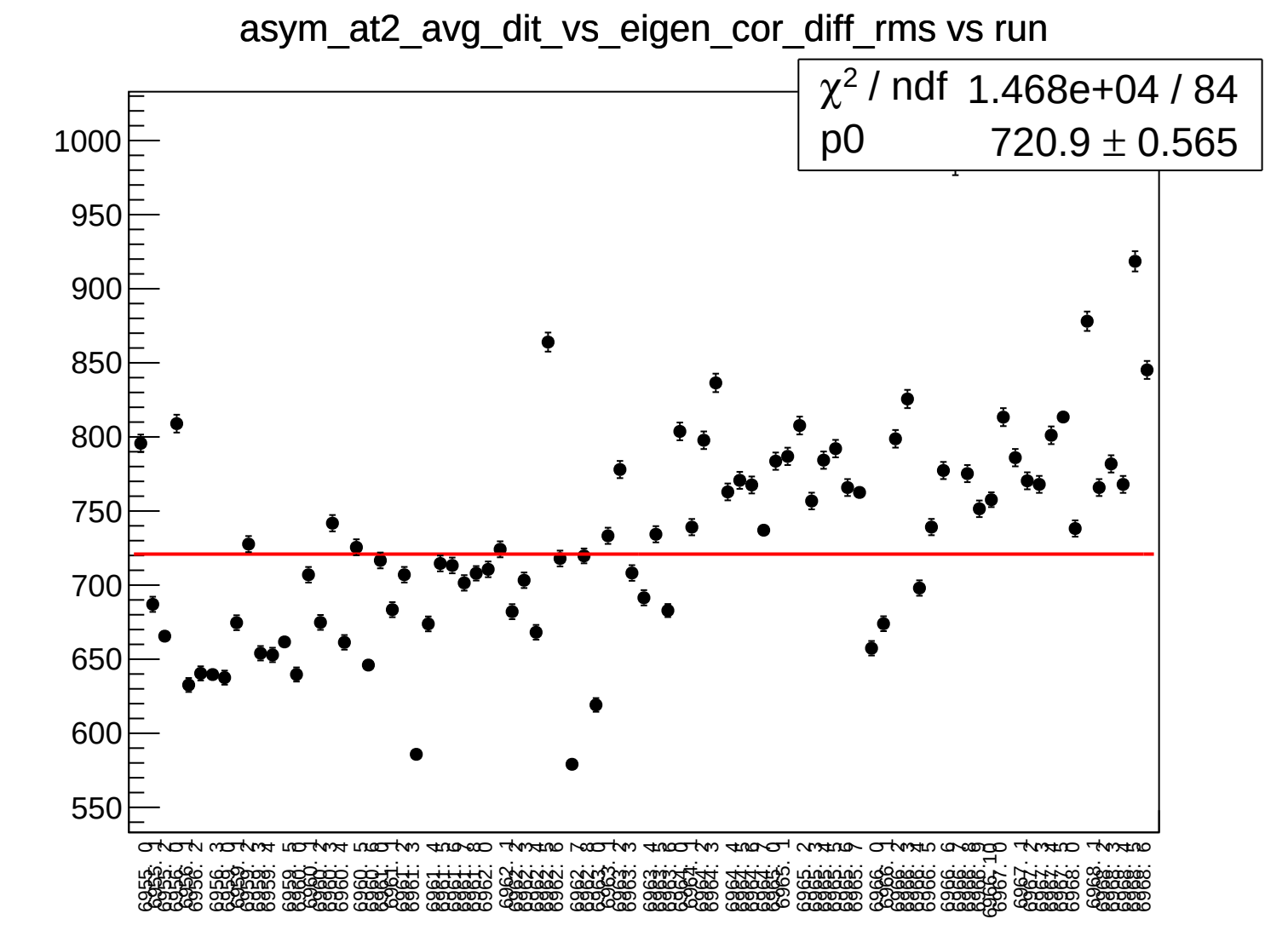

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.112e+06 / 84
p0 2.662e−10 ± 3.653e−13
1
0.8
0.6
0.4
0.2
0

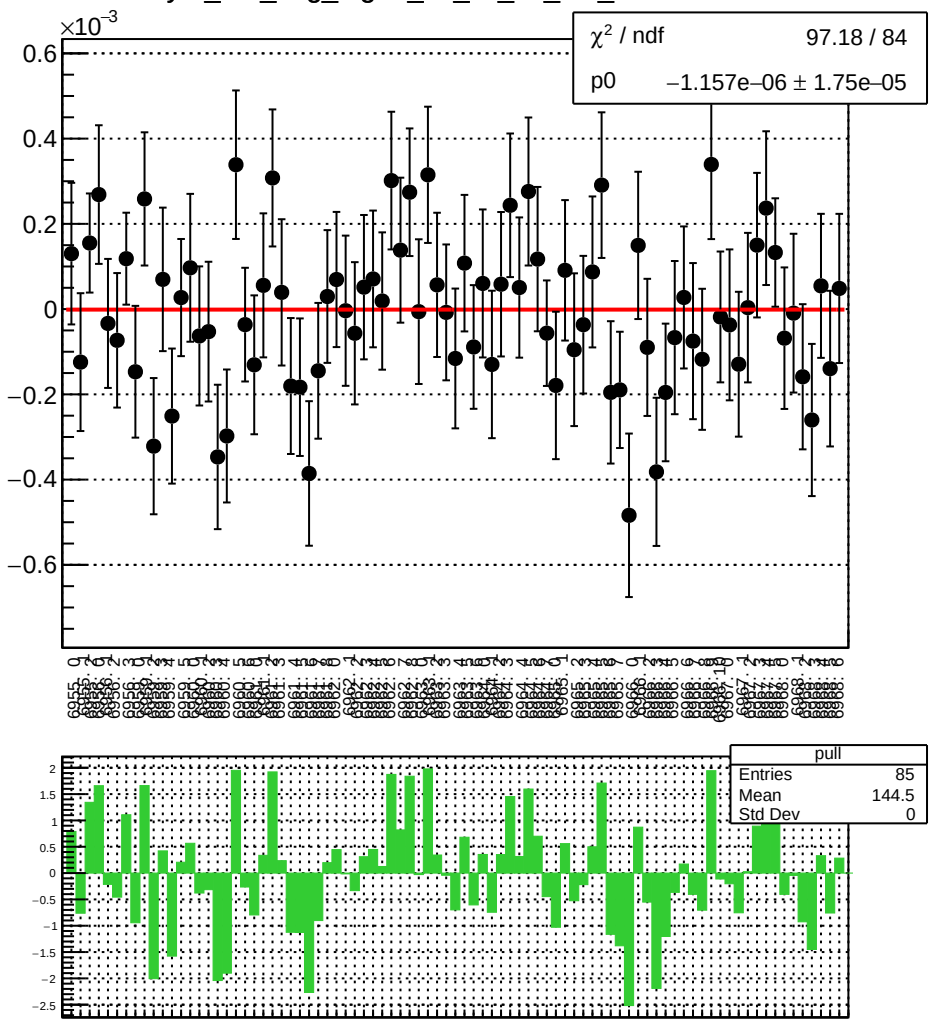

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.71 / 84
p0 −0.8534 ± 0.7991
pull
Entries 85
Mean 138.9
Std Dev 0

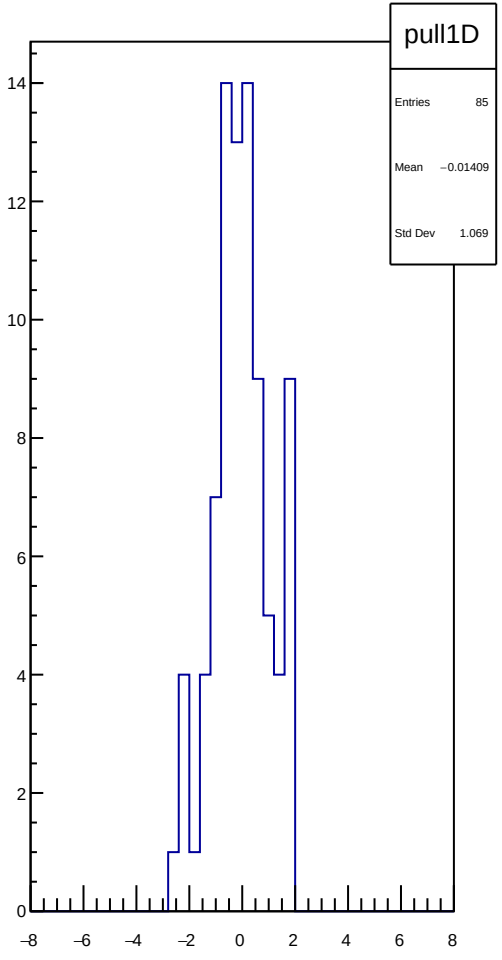

pull1D
Entries 85
Mean −0.01594
Std Dev 1.004

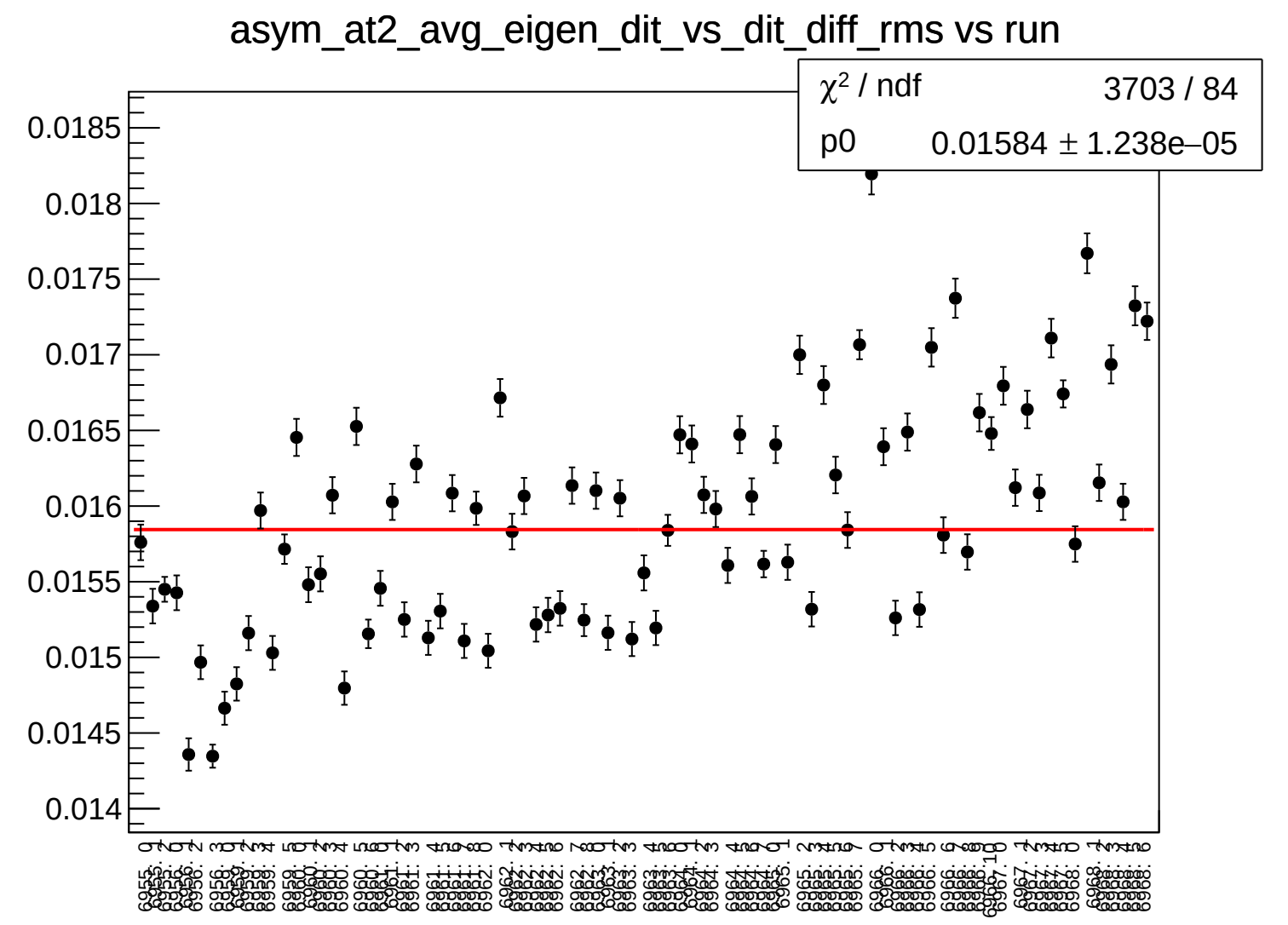

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.468e+04 / 84
p0 720.9 ± 0.565
1000
950
900
850
800
750
700
650
600
550

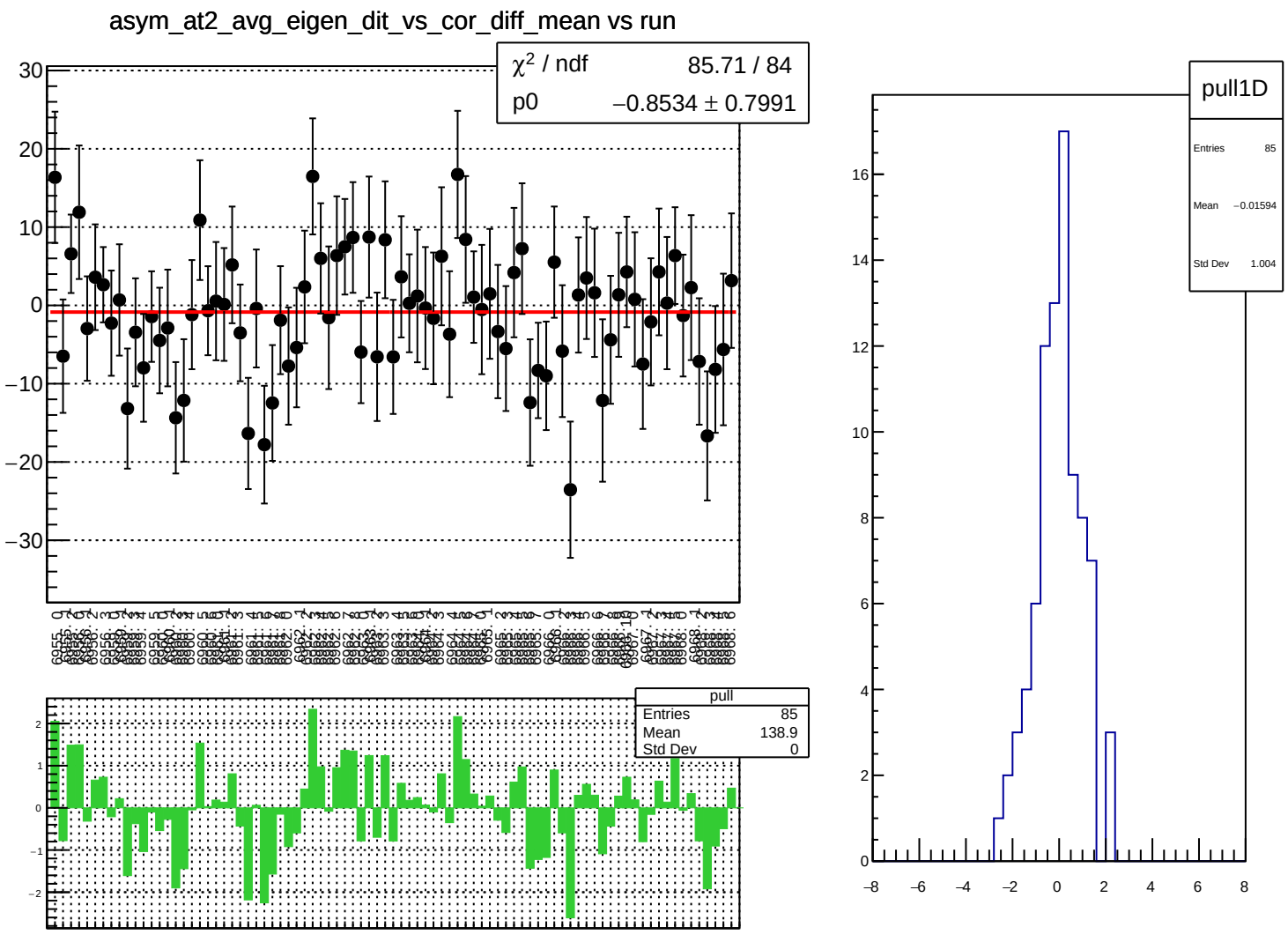

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.71 / 84
p0 −0.8534 ± 0.7991
pull
Entries 85
Mean 138.9
Std Dev 0
pull1D
Entries 85
Mean −0.01594
Std Dev 1.004

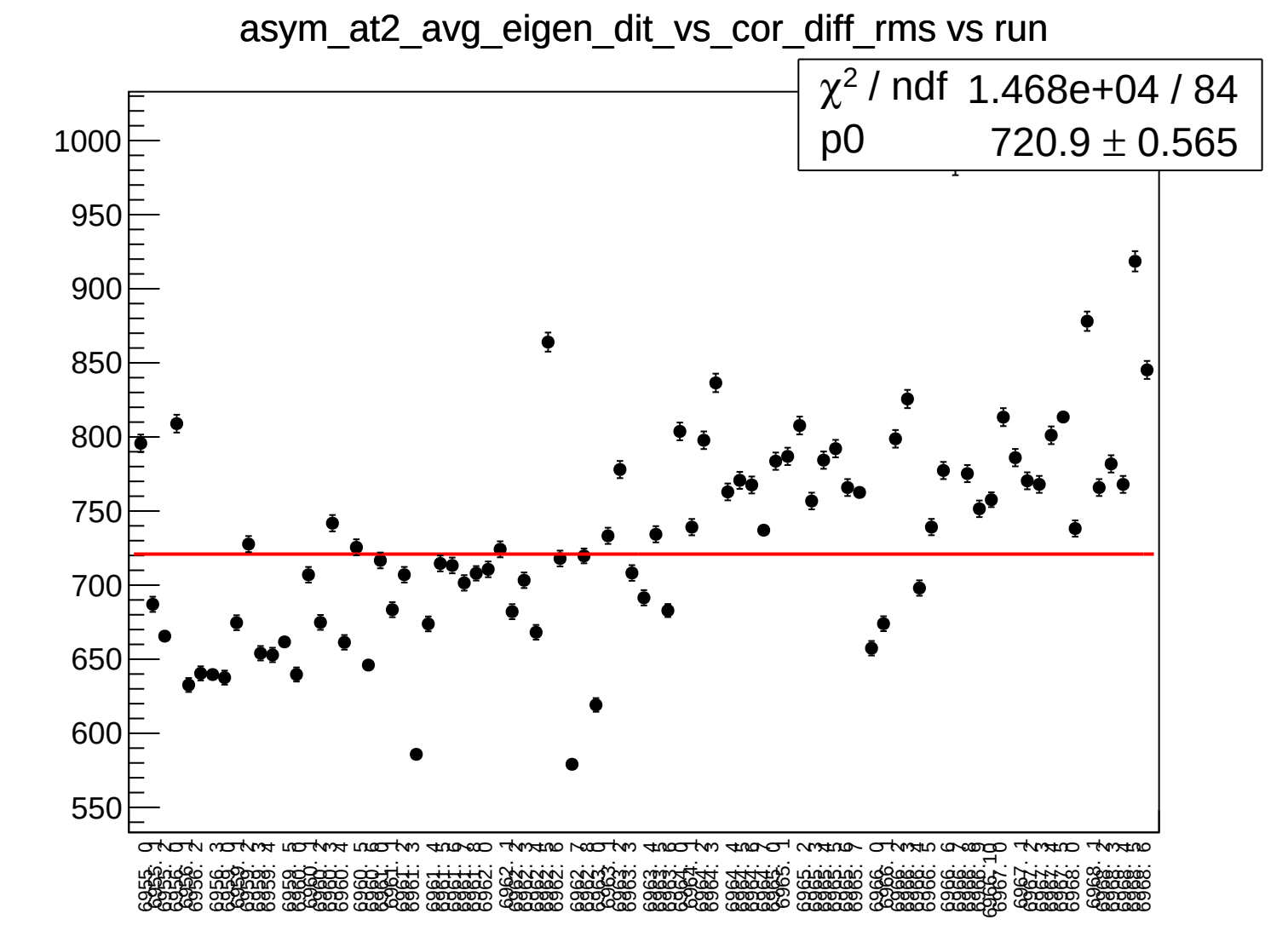

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.468e+04 / 84
p0 720.9 ± 0.565
1000
950
900
850
800
750
700
650
600
550

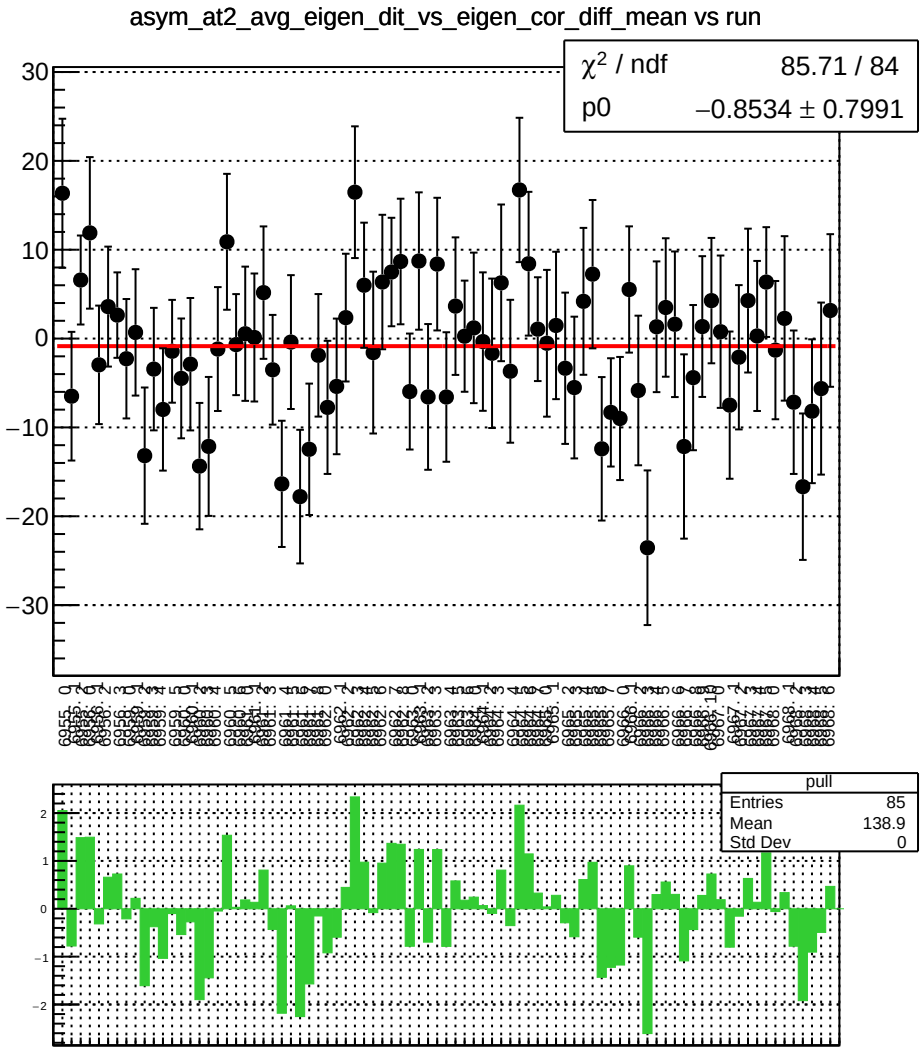

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.18 / 84
p0 −1.157e−06 ± 1.75e−05
pull
Entries 85
Mean 144.5
Std Dev 0

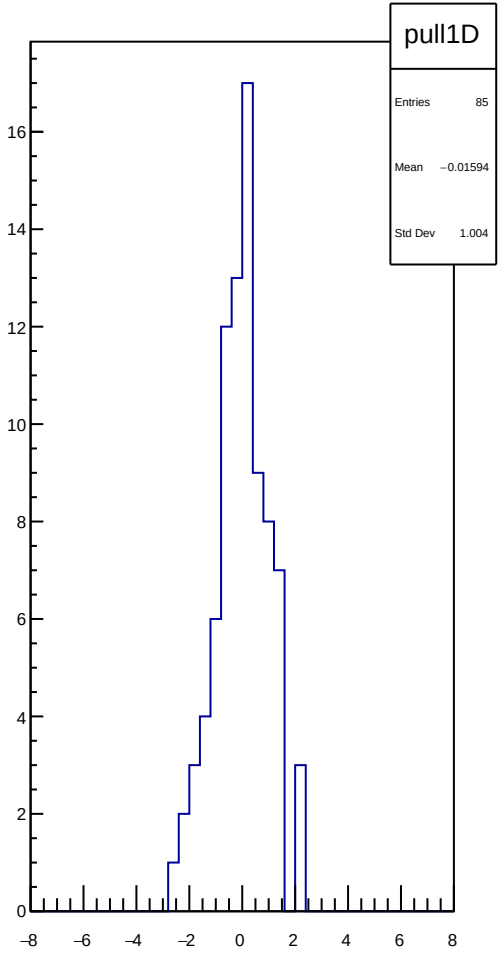

pull1D
Entries 85
Mean −0.01409
Std Dev 1.069

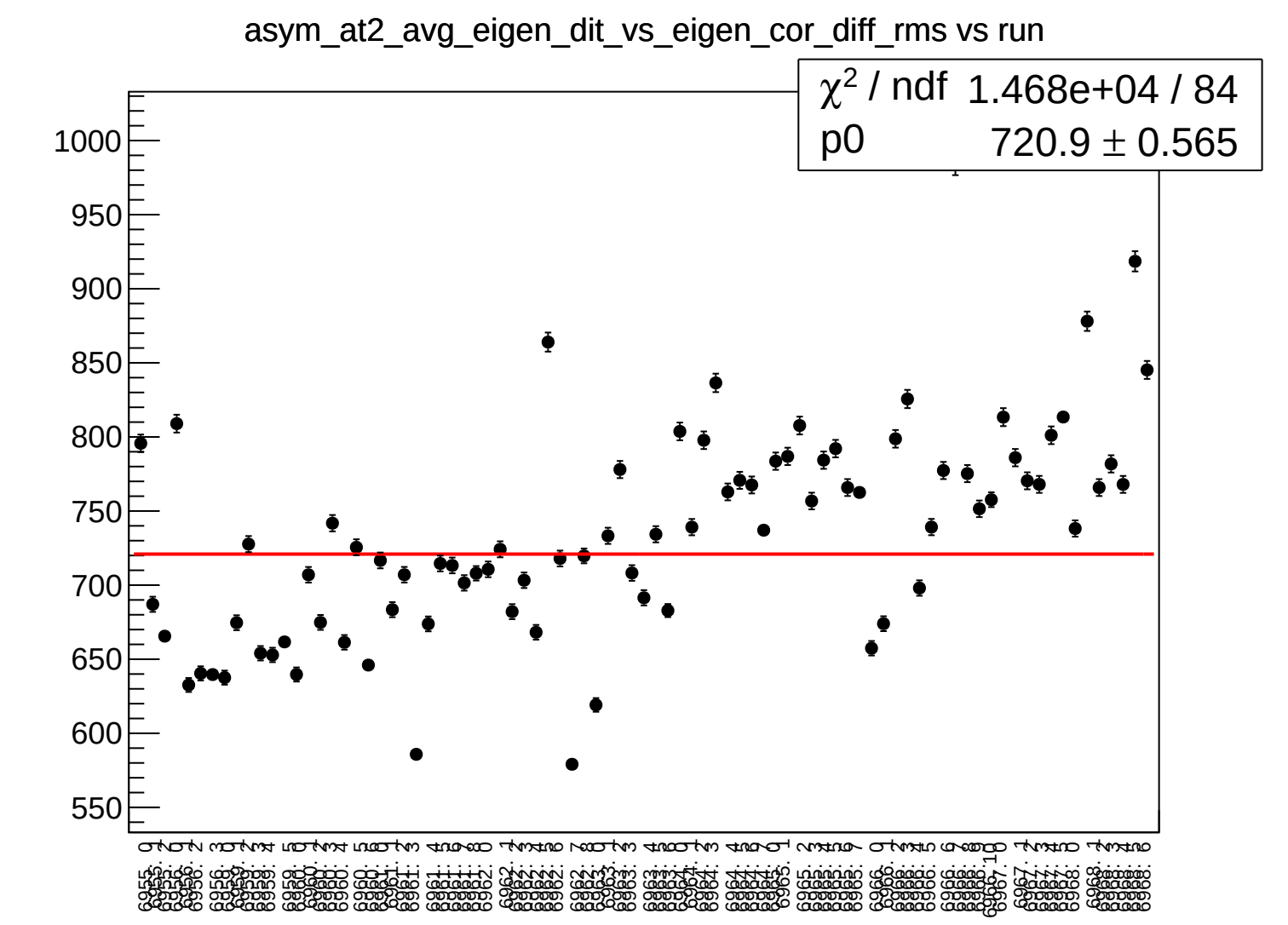

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3703 / 84
p0 0.01584 ± 1.238e−05
0.0185
0.018
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014

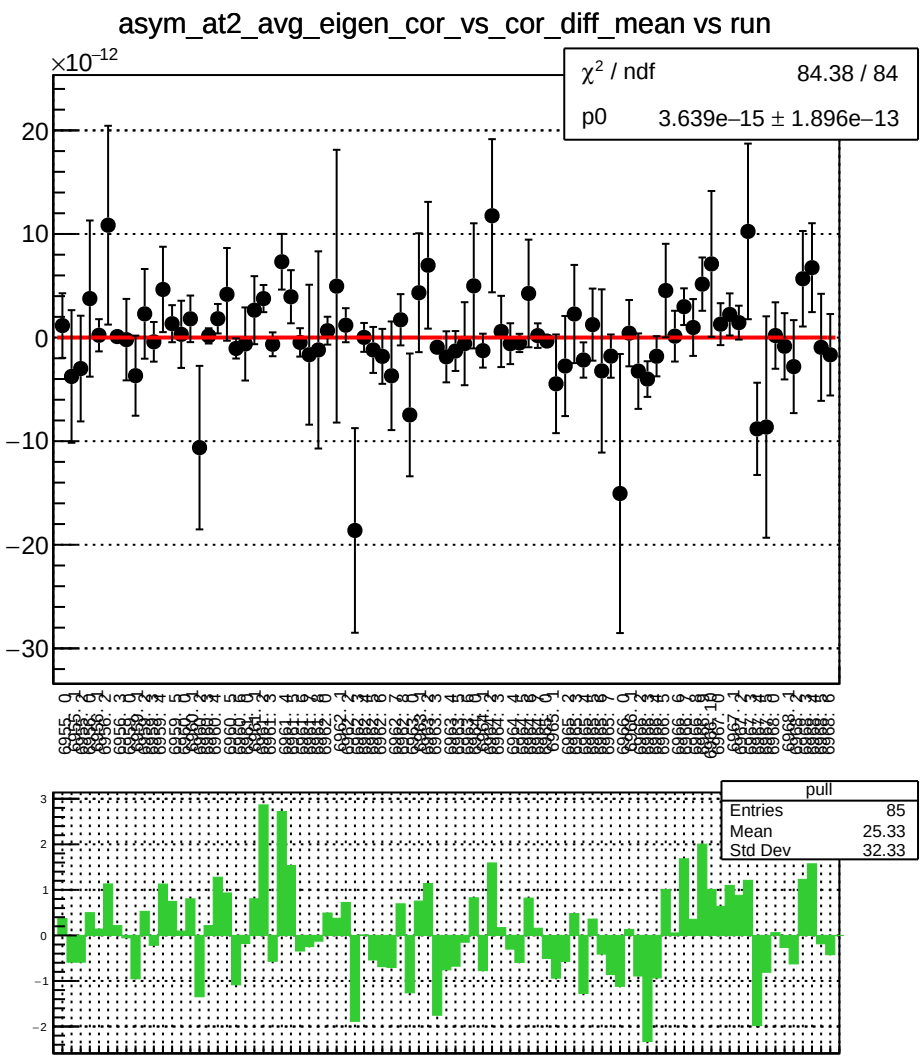

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.71 / 84
p0 −0.8534 ± 0.7991
pull
Entries 85
Mean 138.9
Std Dev 0
pull1D
Entries 85
Mean −0.01594
Std Dev 1.004

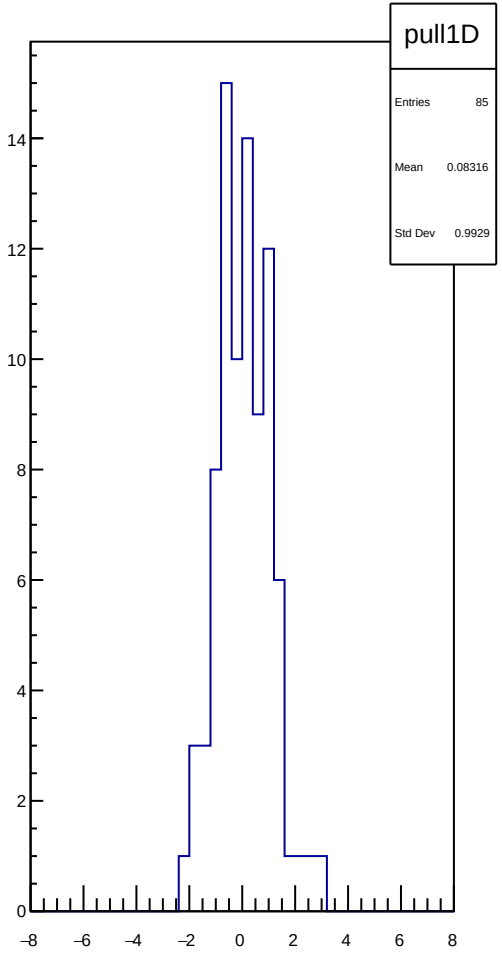

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.468e+04 / 84
p0 720.9 ± 0.565
1000
950
900
850
800
750
700
650
600
550

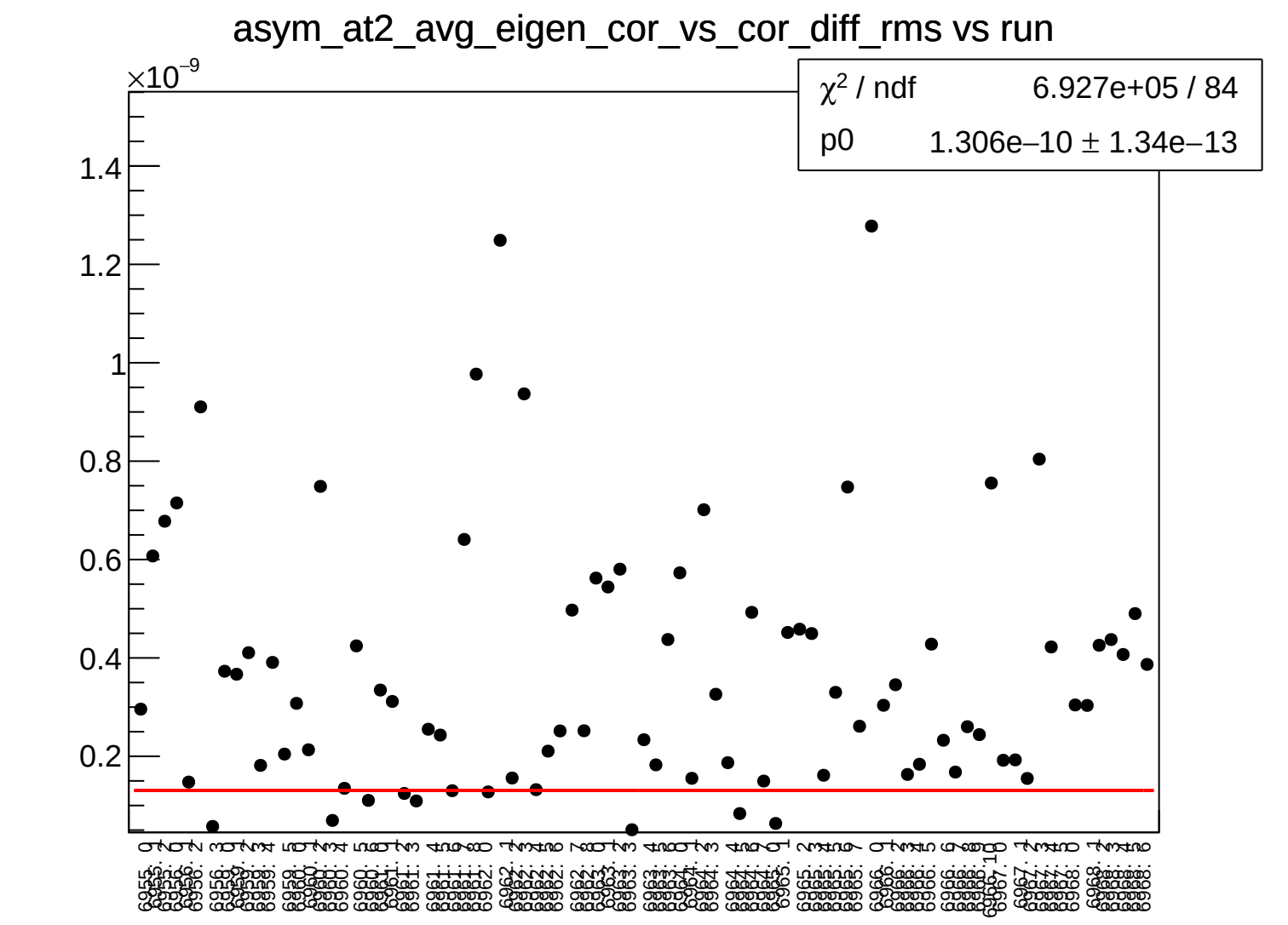

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.71 / 84
p0 −0.8534 ± 0.7991
pull
Entries 85
Mean 138.9
Std Dev 0

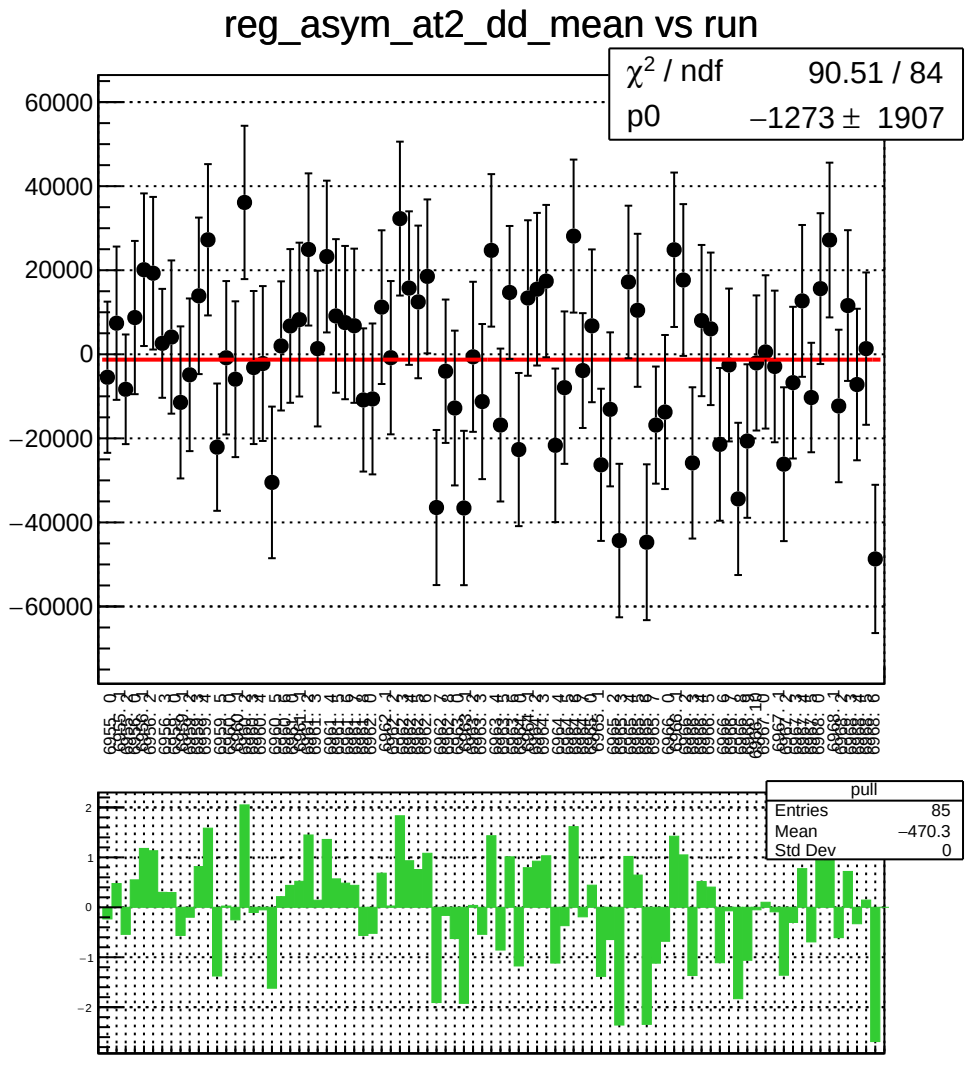

pull1D
Entries 85
Mean −0.01594
Std Dev 1.004

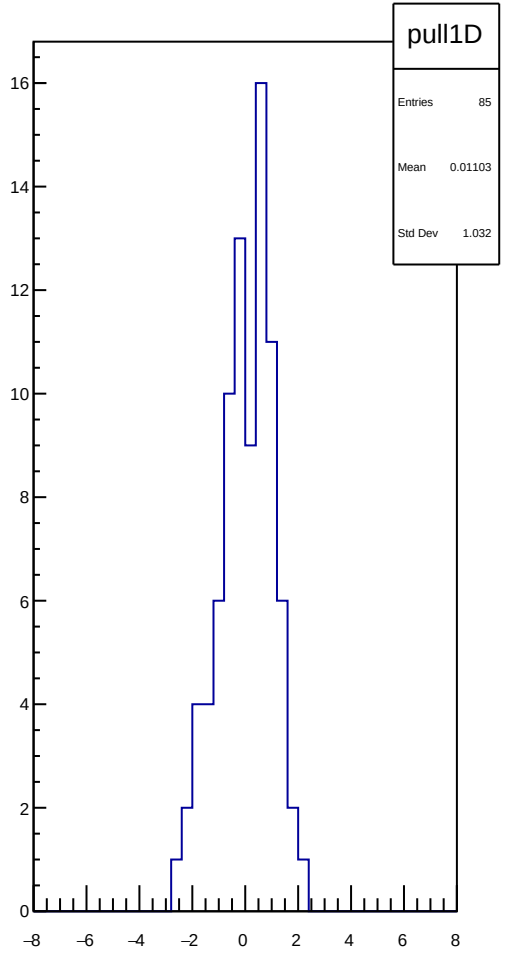

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.468e+04 / 84
p0 720.9 ± 0.565
1000
950
900
850
800
750
700
650
600
550

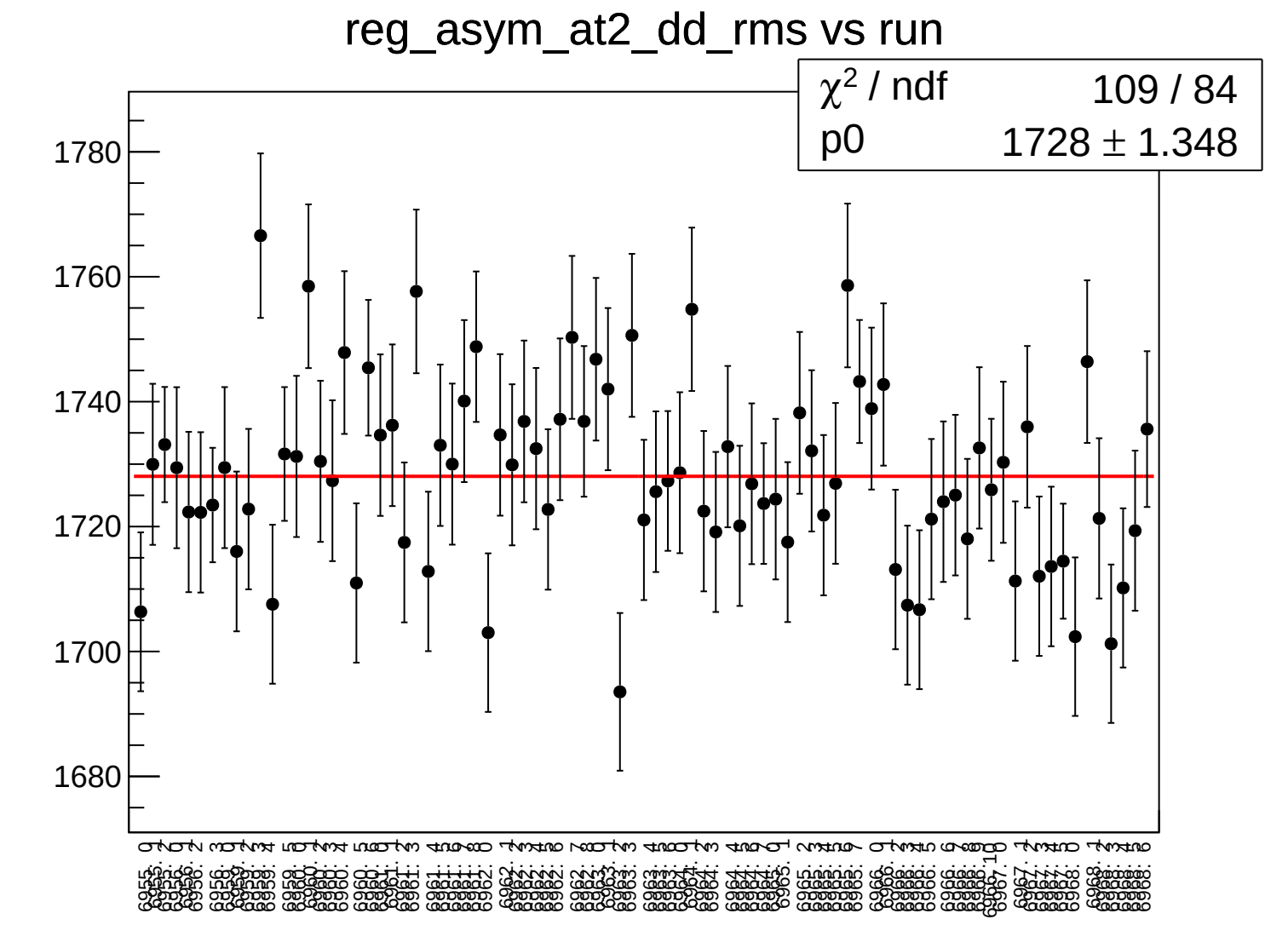

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.38 / 84
p0 3.639e−15 ± 1.896e−13
pull
Entries 85
Mean 25.33
Std Dev 32.33

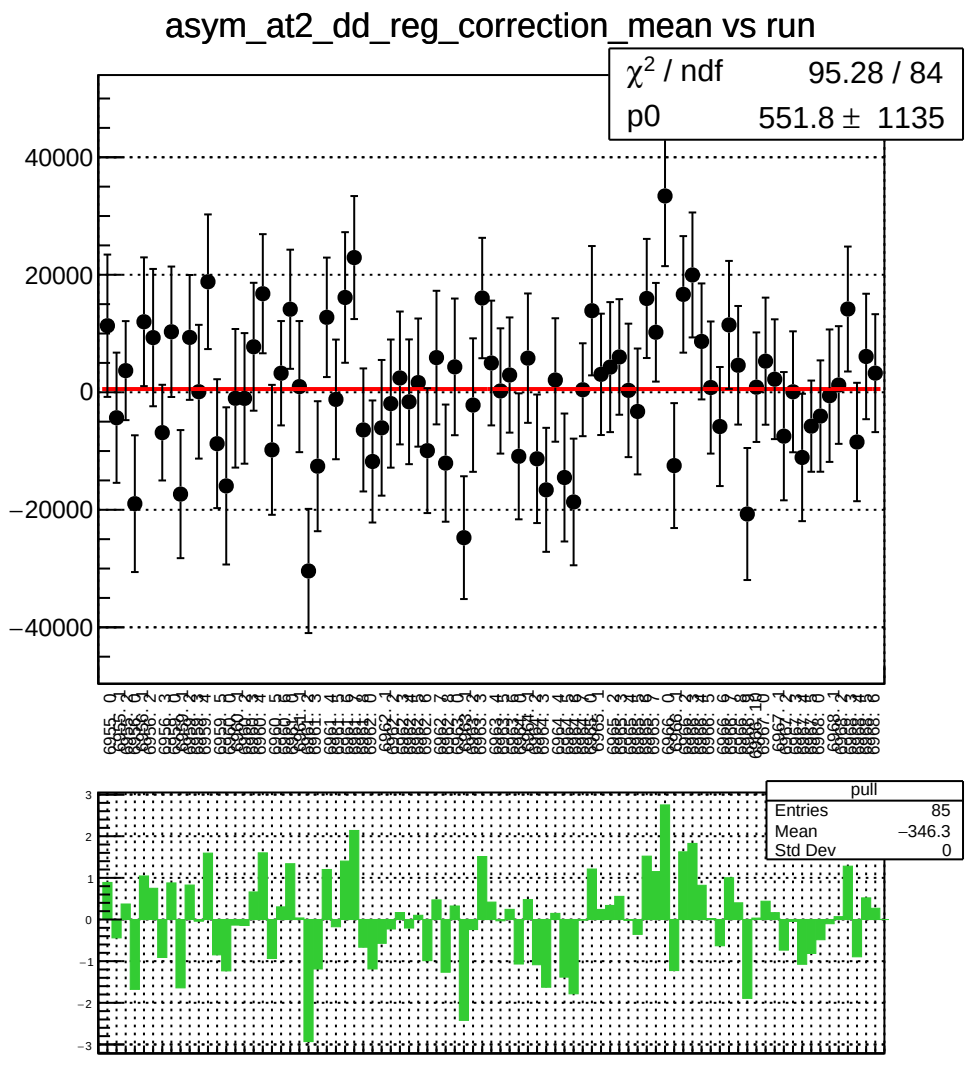

pull1D
Entries 85
Mean 0.08316
Std Dev 0.9929

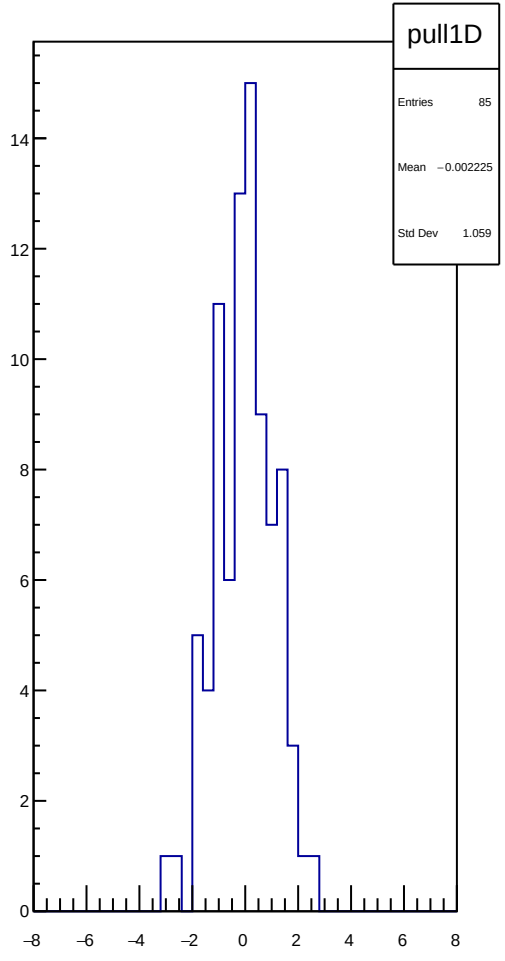

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.927e+05 / 84
p0 1.306e−10 ± 1.34e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

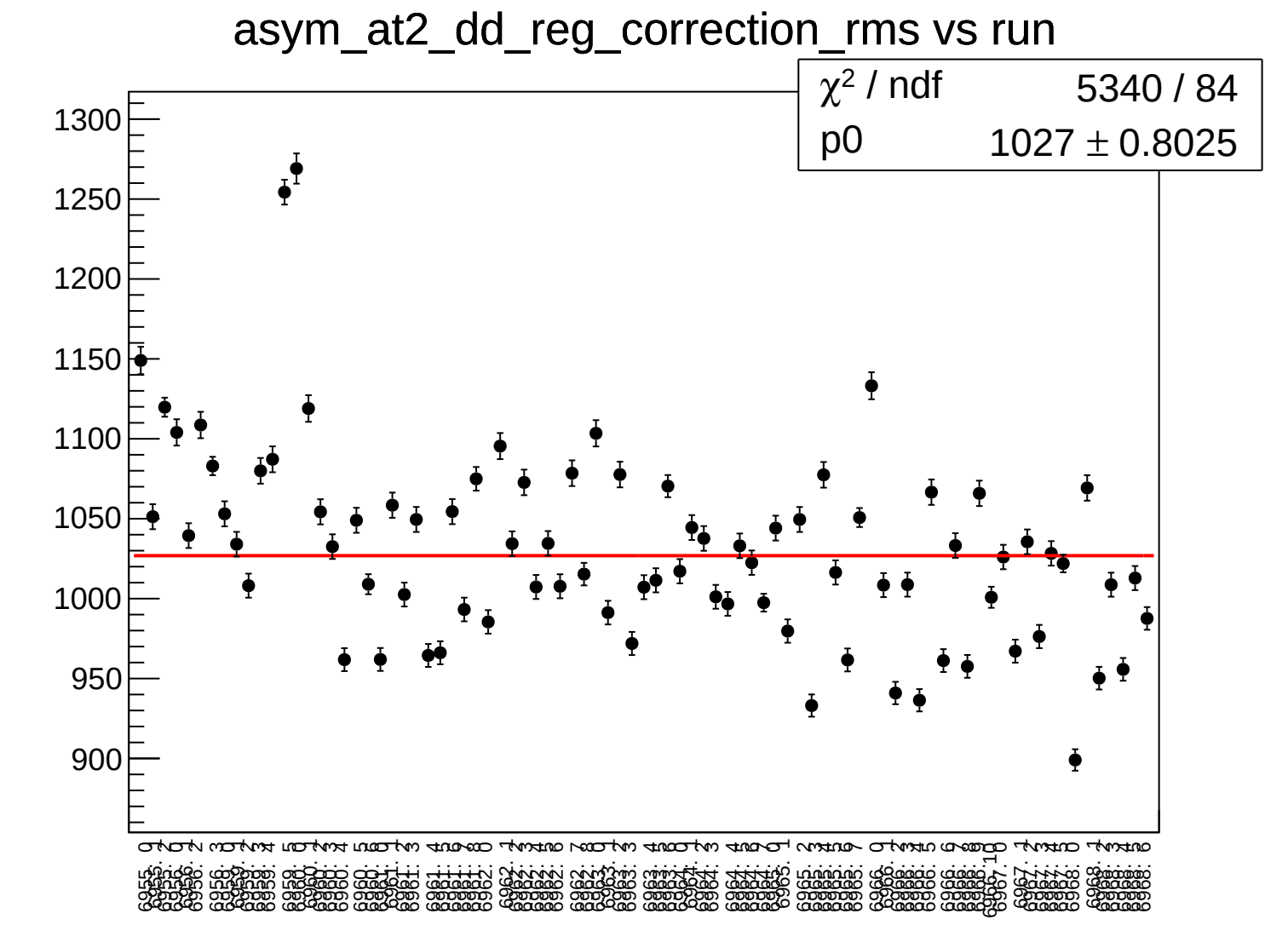

reg_asym_at2_dd_mean vs run
χ² / ndf 90.51 / 84
p0 −1273 ± 1907
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −470.3
Std Dev 0
2
1
0
−1
−2

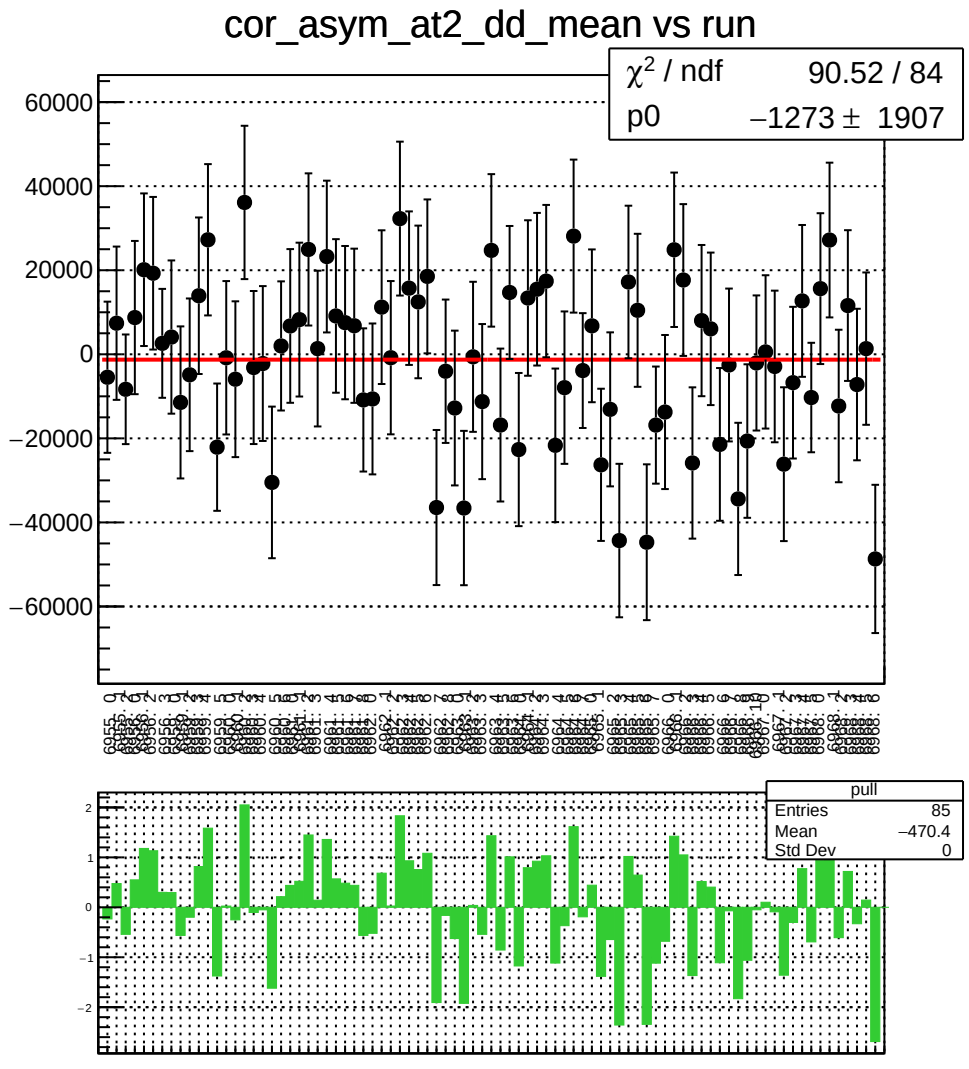

pull1D
Entries 85
Mean 0.01103
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

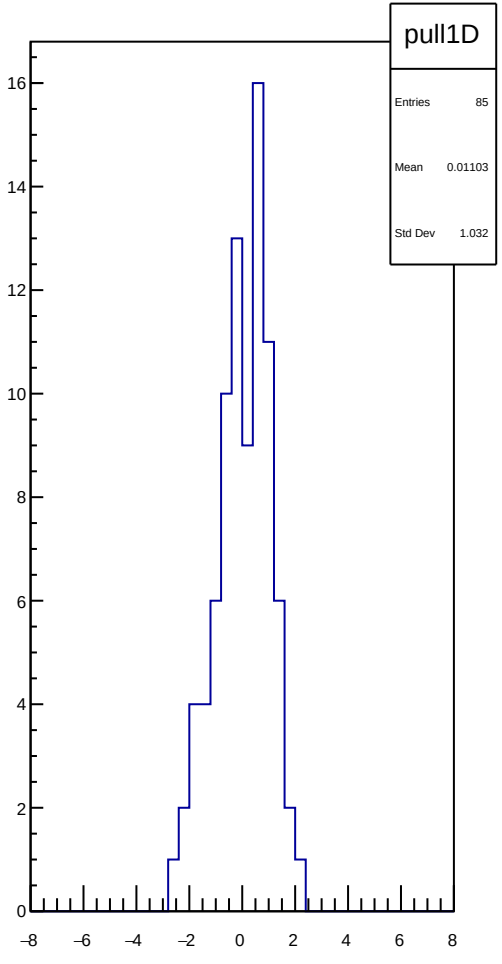

reg_asym_at2_dd_rms vs run
χ² / ndf 109 / 84
p0 1728 ± 1.348
1780
1760
1740
1720
1700
1680

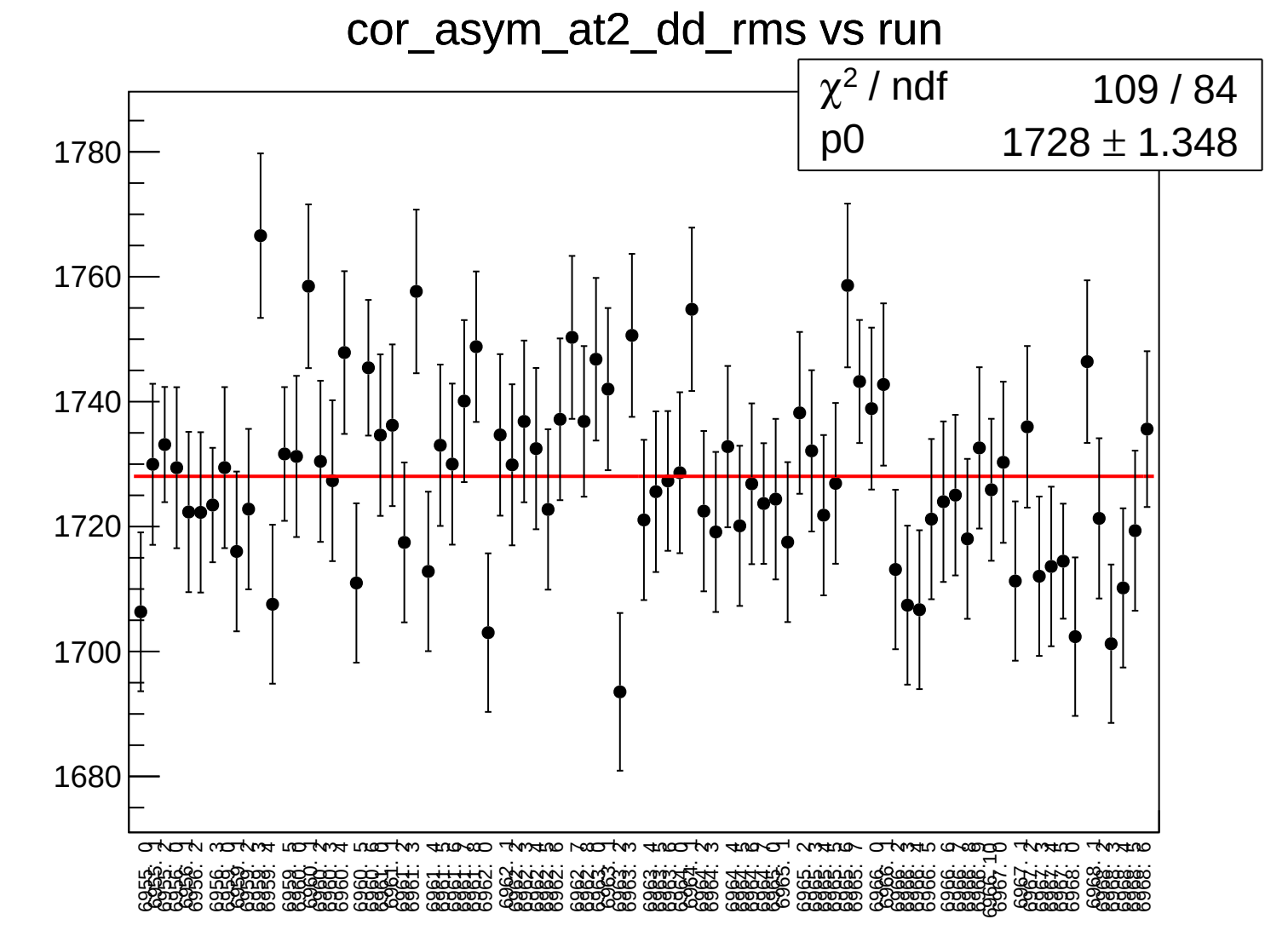

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 95.28 / 84
p0 551.8 ± 1135
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −346.3
Std Dev 0
3
2
1
0
−1
−2
−3

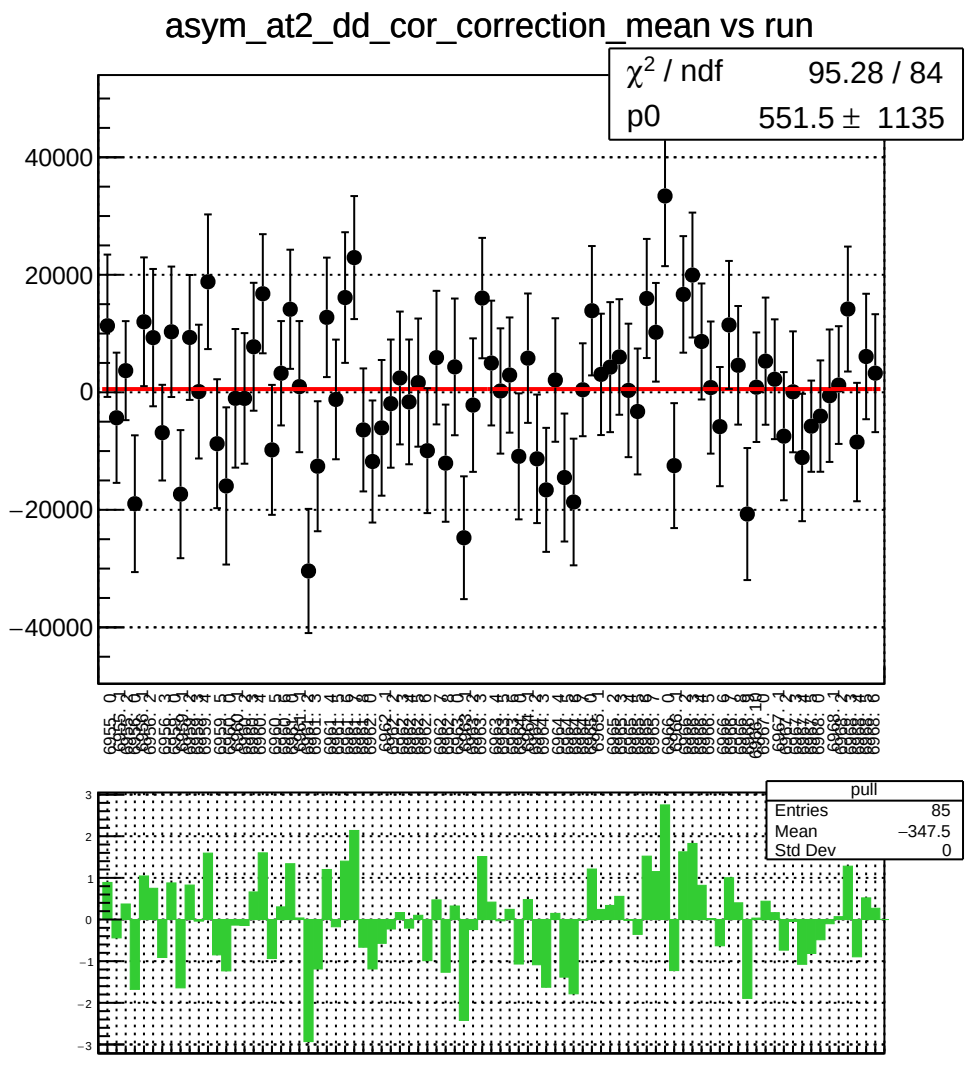

pull1D
Entries 85
Mean −0.002225
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

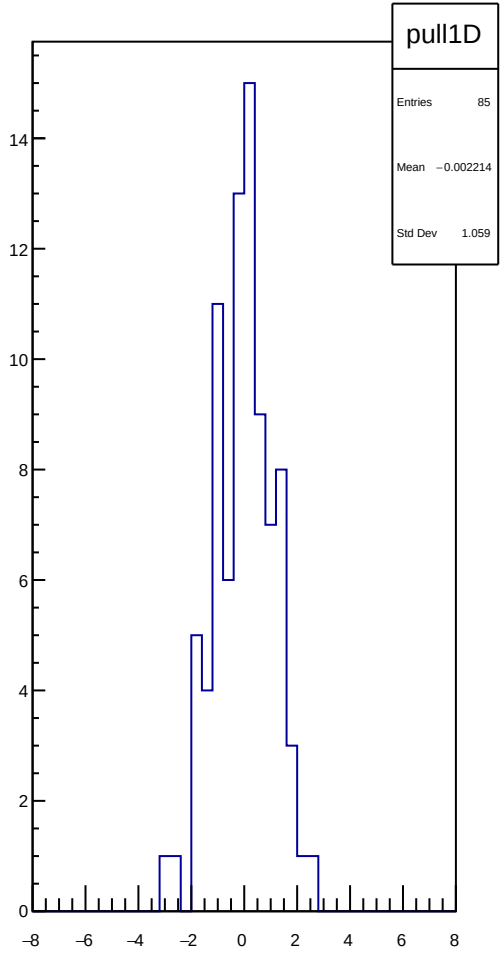

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 5340 / 84
p0 1027 ± 0.8025
1300
1250
1200
1150
1100
1050
1000
950
900

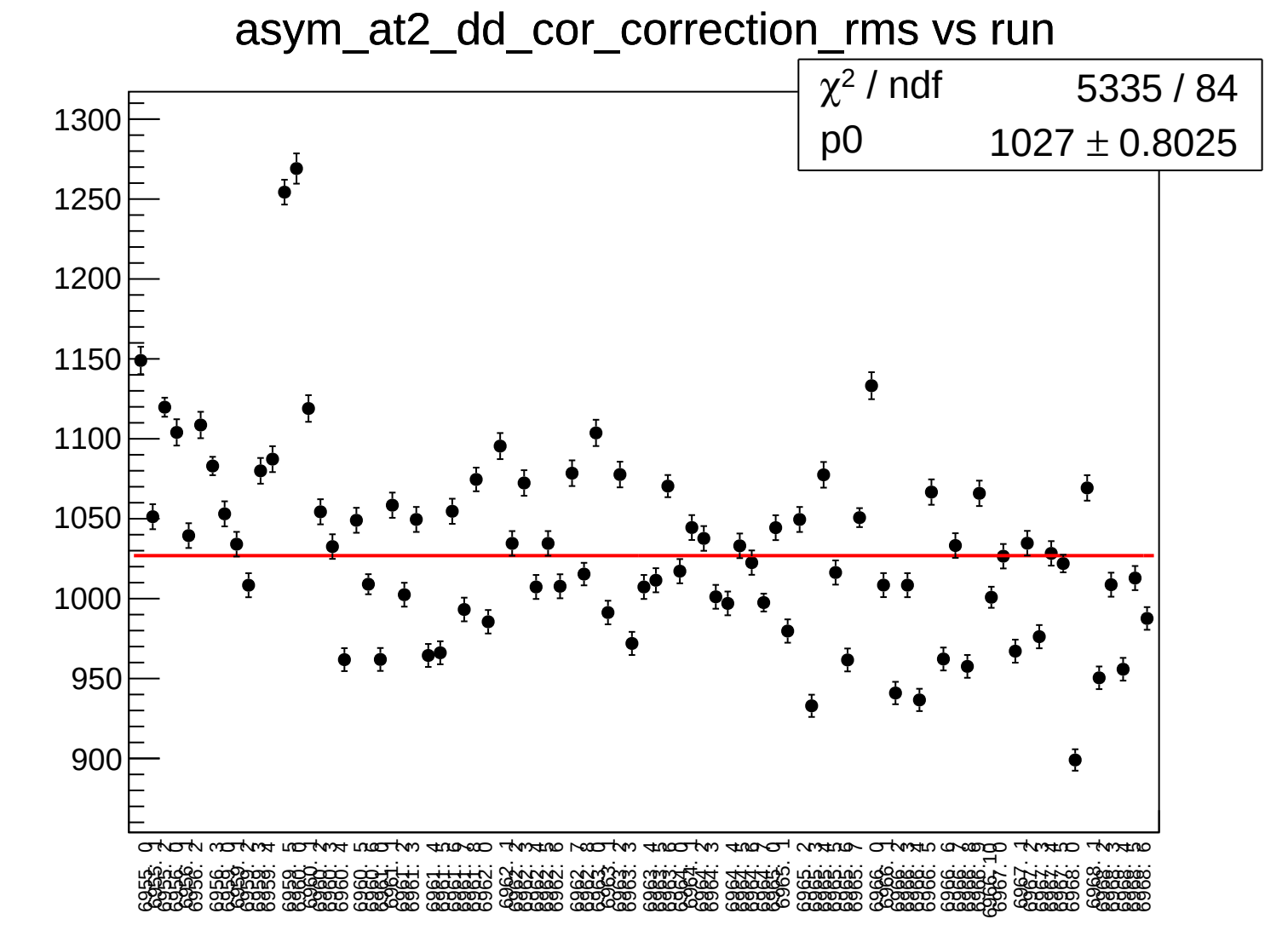

cor_asym_at2_dd_mean vs run
χ² / ndf 90.52 / 84
p0 −1273 ± 1907
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −470.4
Std Dev 0
2
1
0
−1
−2

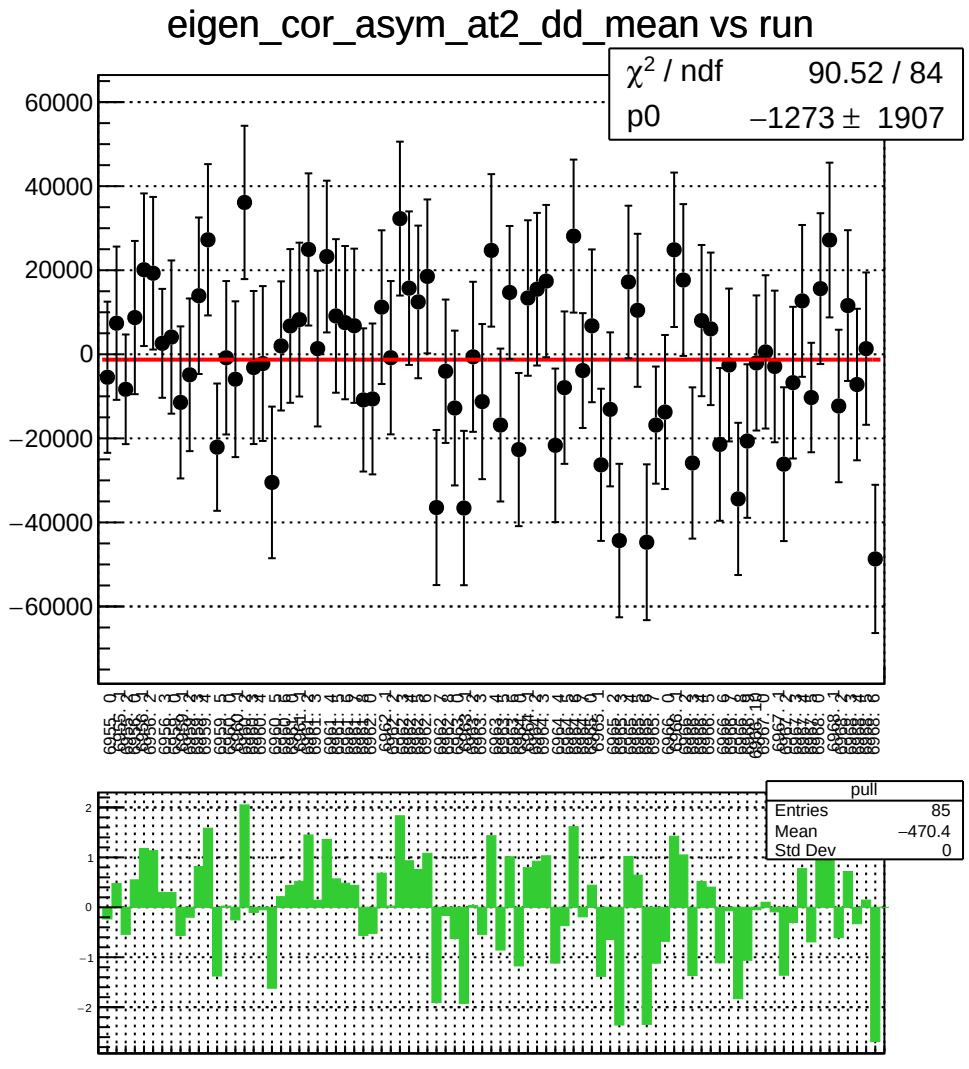

pull1D
Entries 85
Mean 0.01103
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

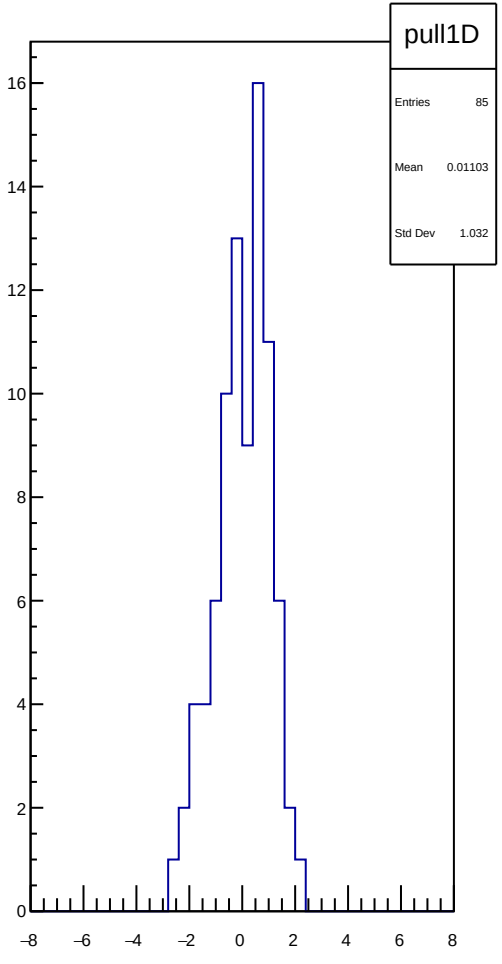

cor_asym_at2_dd_rms vs run
$\chi^2$ / ndf 109 / 84
p0 1728 ± 1.348
1780
1760
1740
1720
1700
1680

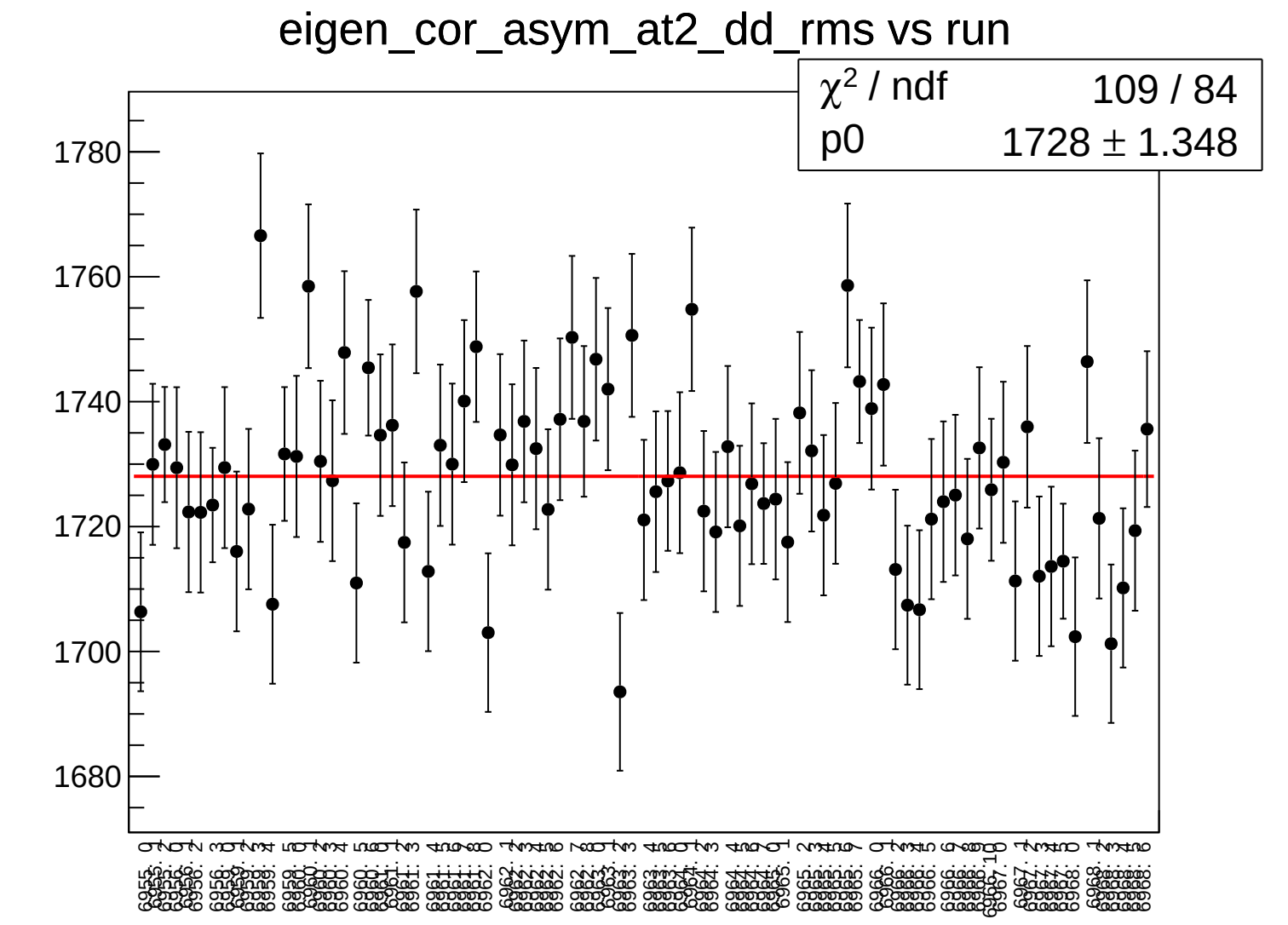

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 95.28 / 84
p0 551.5 ± 1135
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −347.5
Std Dev 0
3
2
1
0
−1
−2
−3

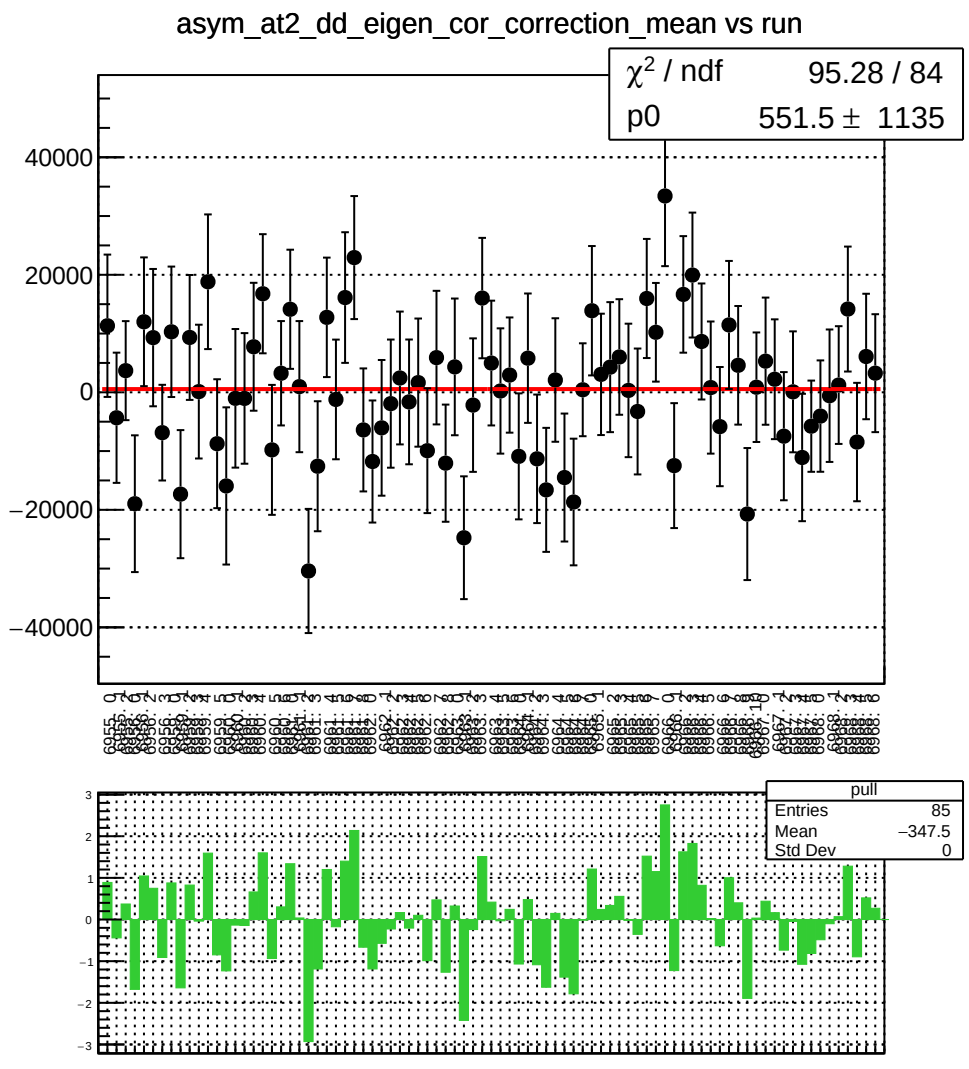

pull1D
Entries 85
Mean −0.002214
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

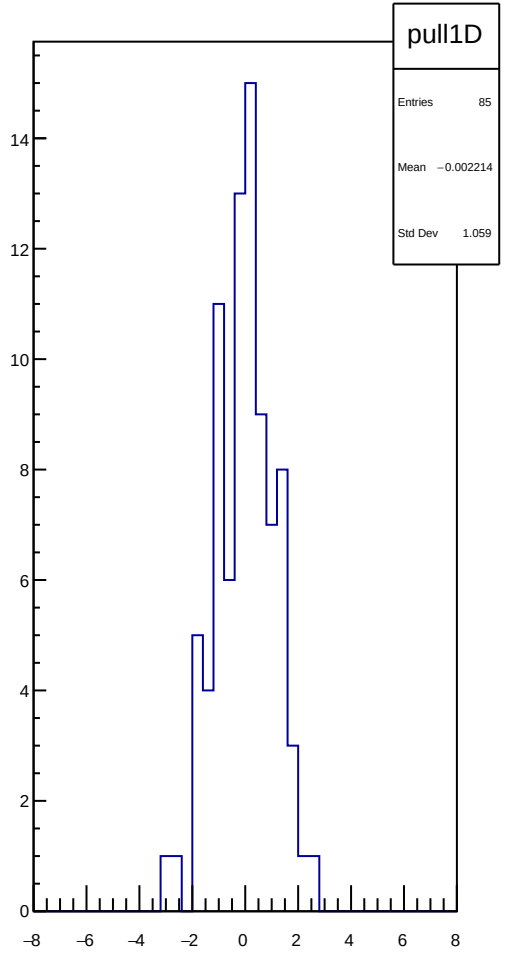

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 5335 / 84
p0 1027 ± 0.8025
1300
1250
1200
1150
1100
1050
1000
950
900

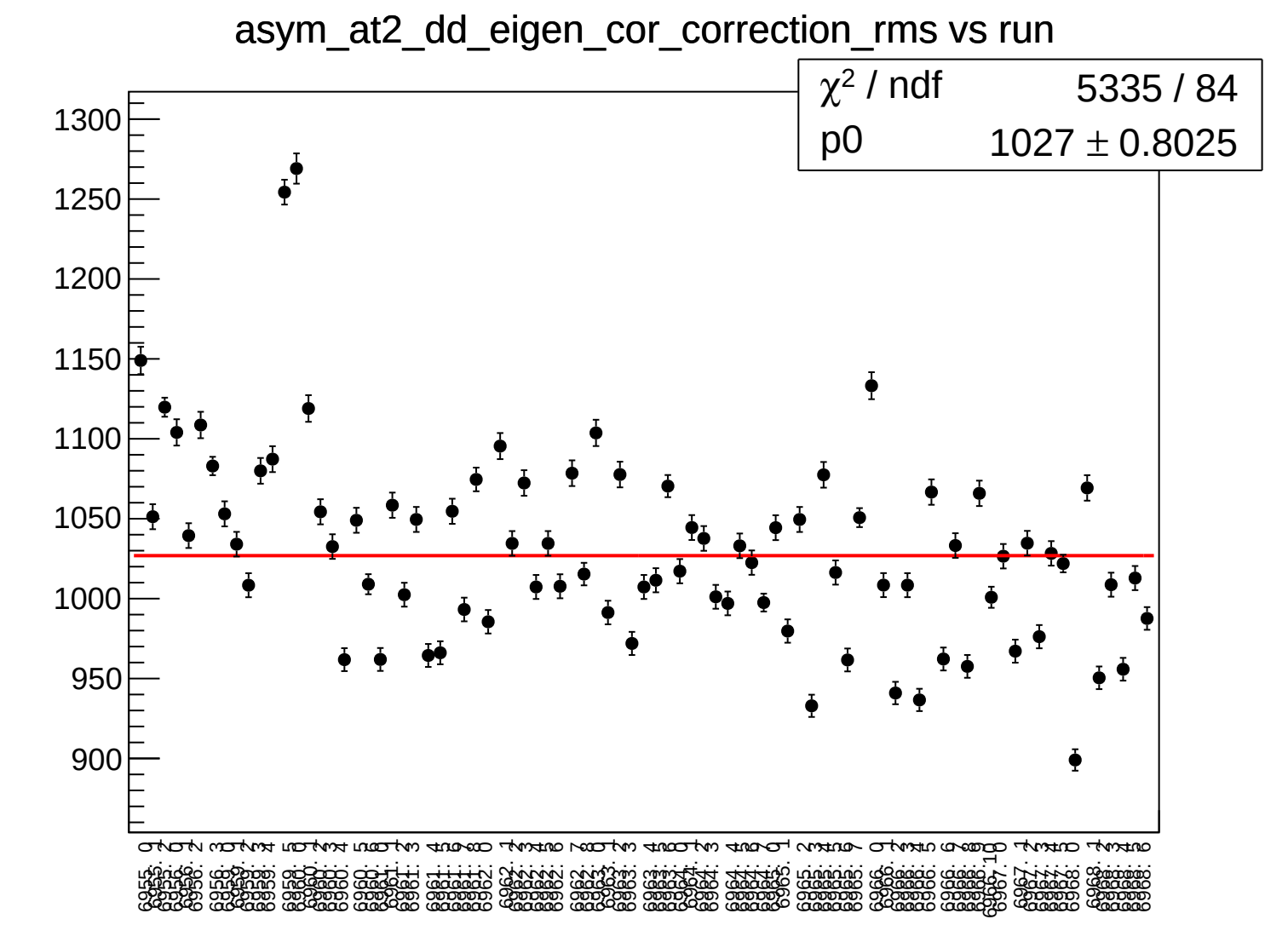

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 90.52 / 84
p0 −1273 ± 1907
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −470.4
Std Dev 0
2
1
0
−1
−2

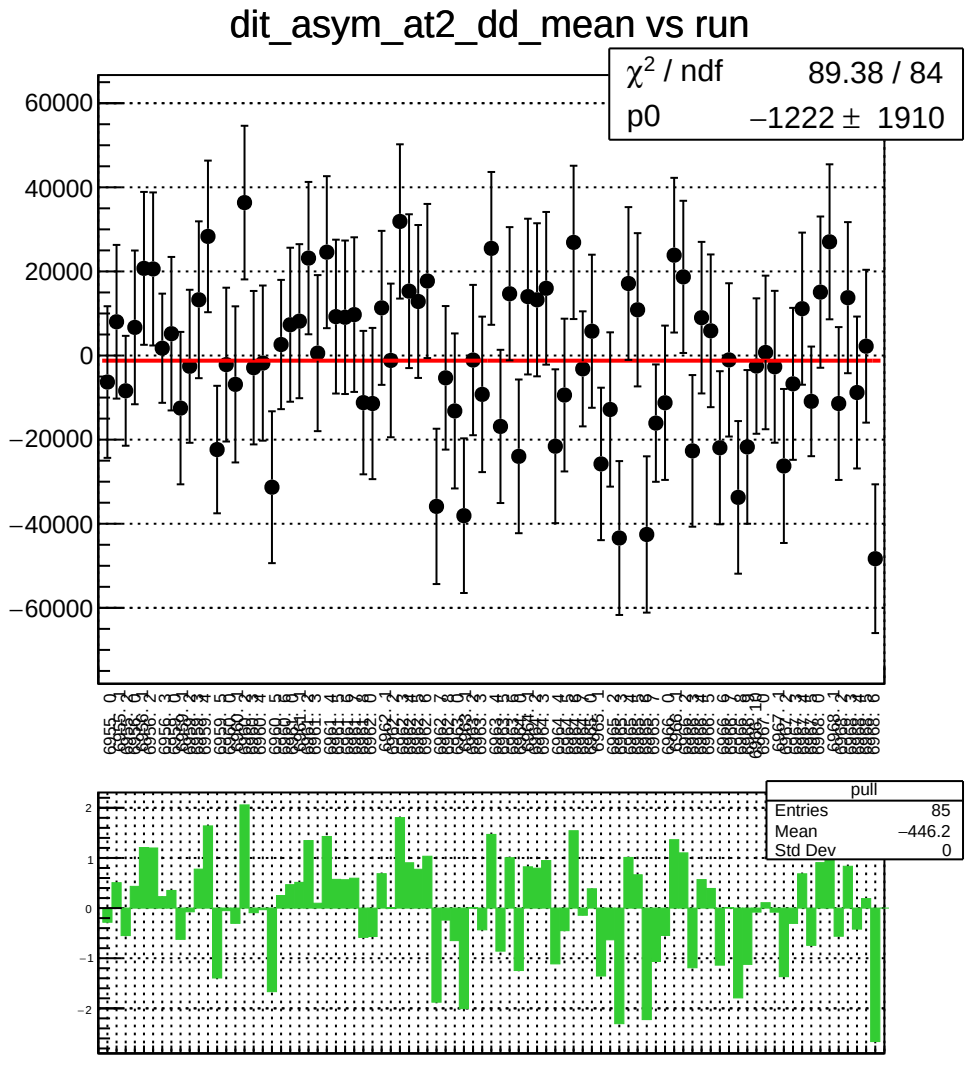

pull1D
Entries 85
Mean 0.01103
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

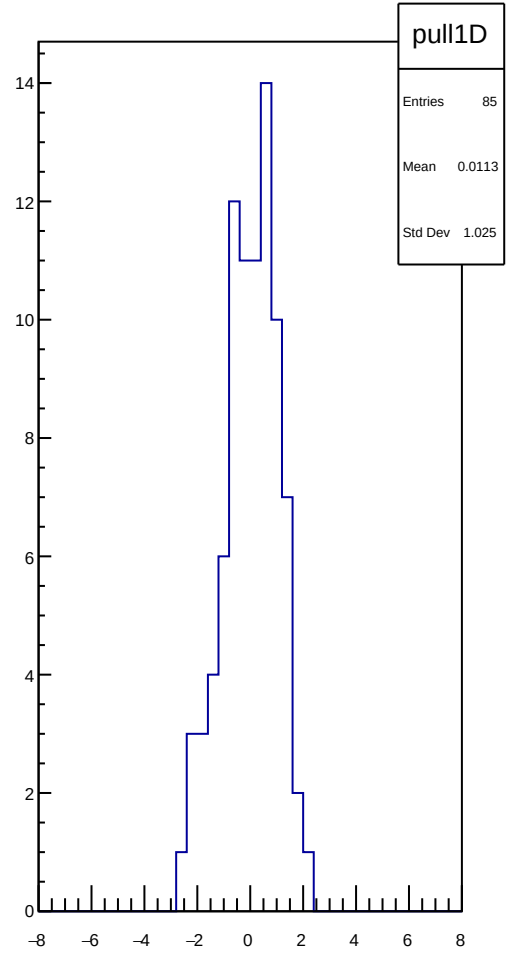

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 109 / 84
p0 1728 ± 1.348
1780
1760
1740
1720
1700
1680

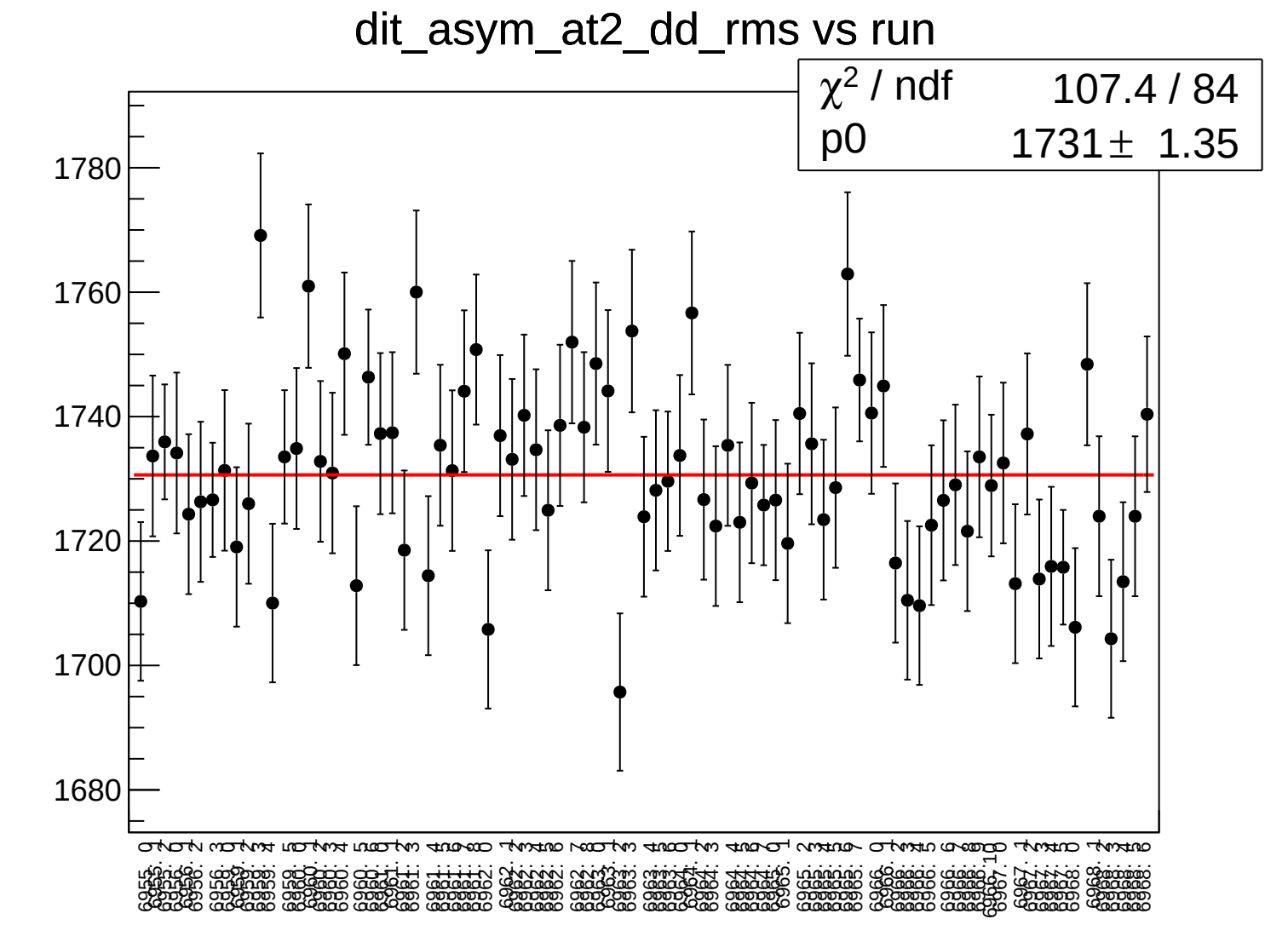

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.28 / 84
p0 551.5 ± 1135
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −347.5
Std Dev 0
3
2
1
0
−1
−2
−3

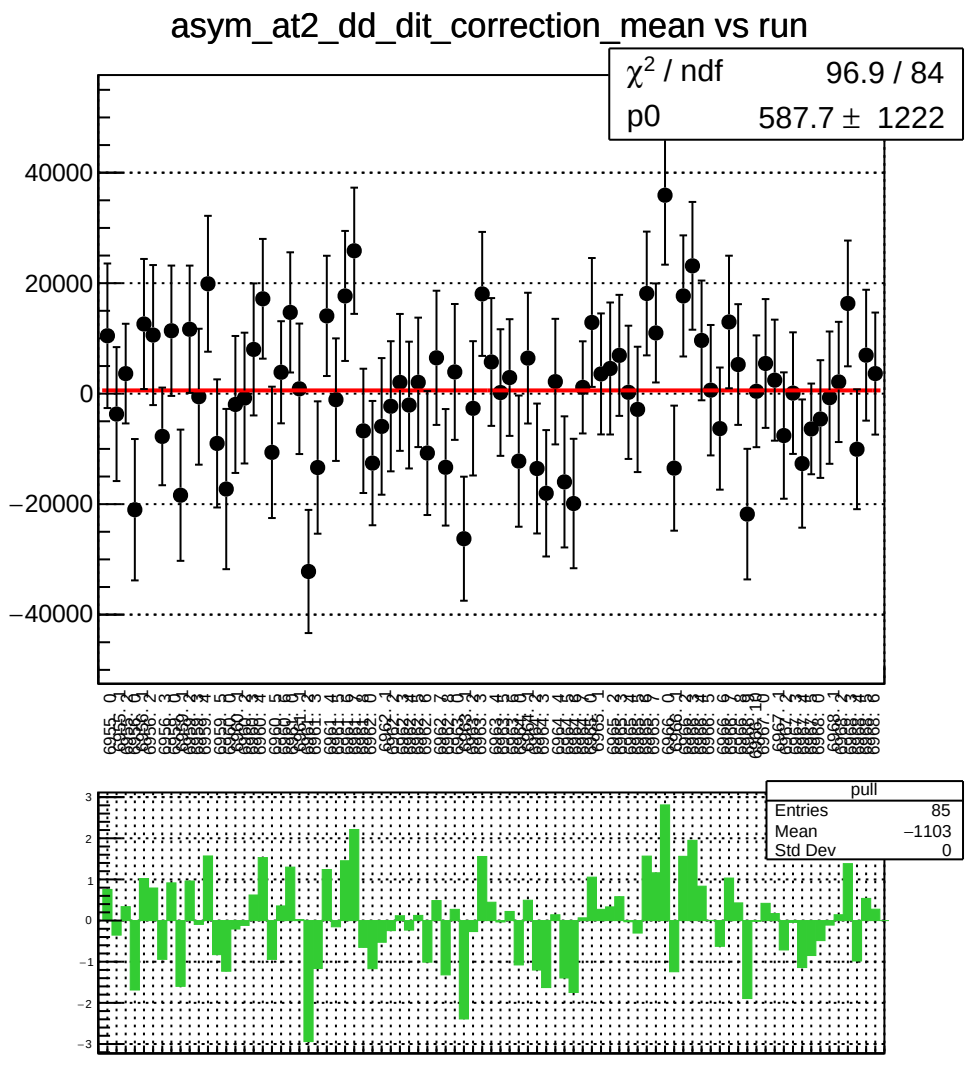

pull1D
Entries 85
Mean −0.002214
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

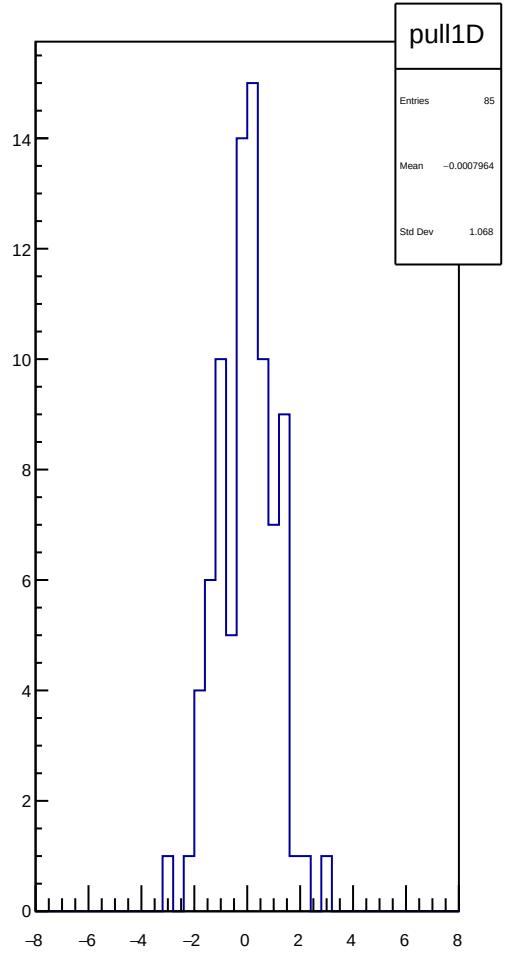

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5335 / 84
p0 1027 ± 0.8025
1300
1250
1200
1150
1100
1050
1000
950
900

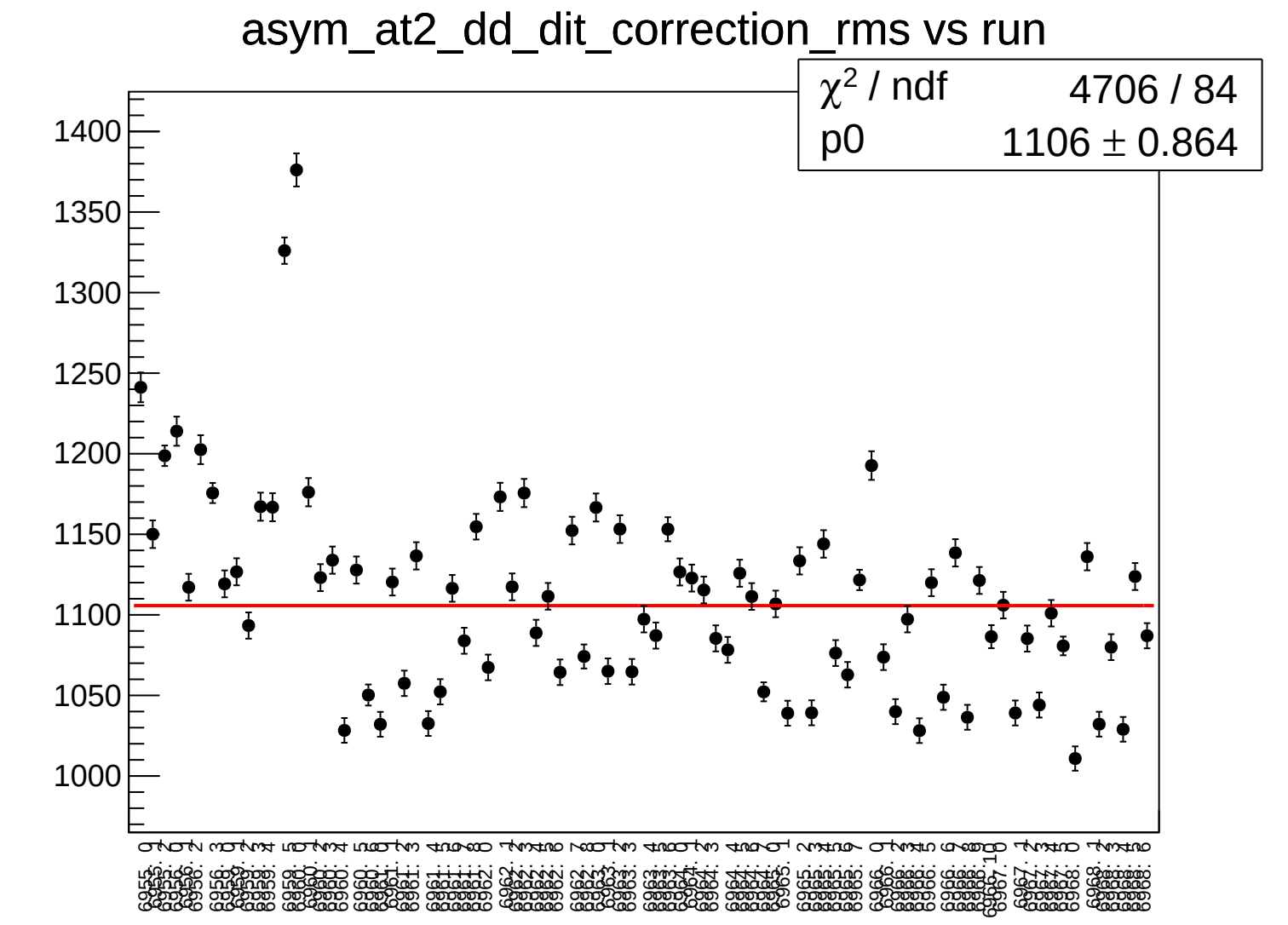

dit_asym_at2_dd_mean vs run
χ² / ndf 89.38 / 84
p0 −1222 ± 1910
pull
Entries 85
Mean −446.2
Std Dev 0

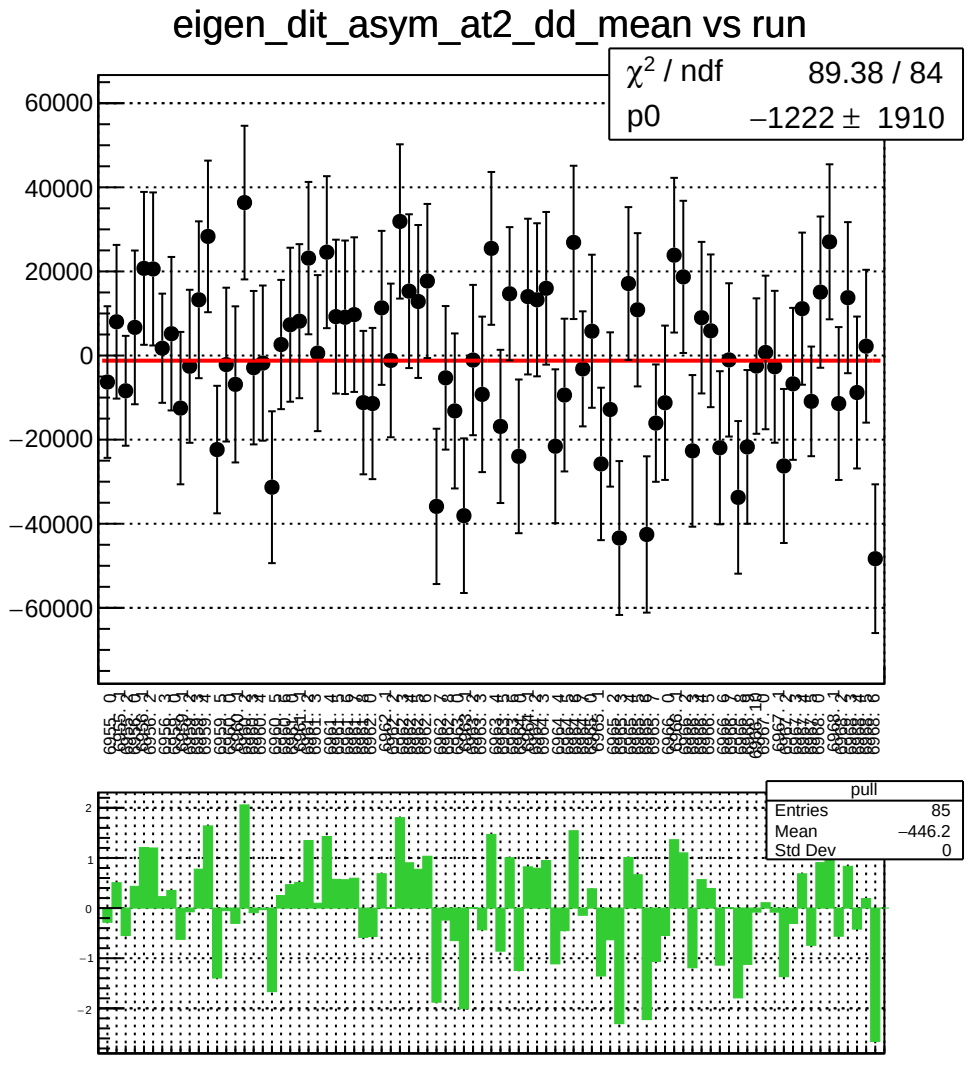

pull1D
Entries 85
Mean 0.0113
Std Dev 1.025

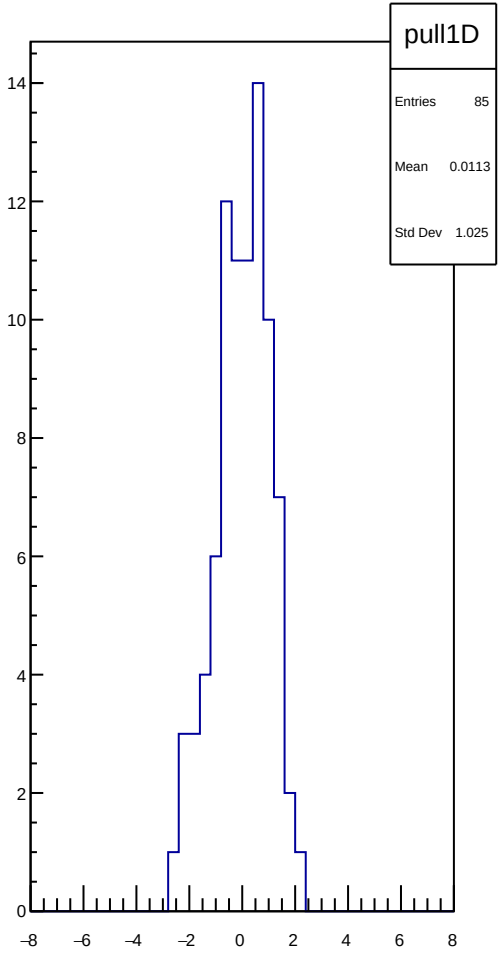

dit_asym_at2_dd_rms vs run
χ² / ndf 107.4 / 84
p0 1731 ± 1.35
1780
1760
1740
1720
1700
1680

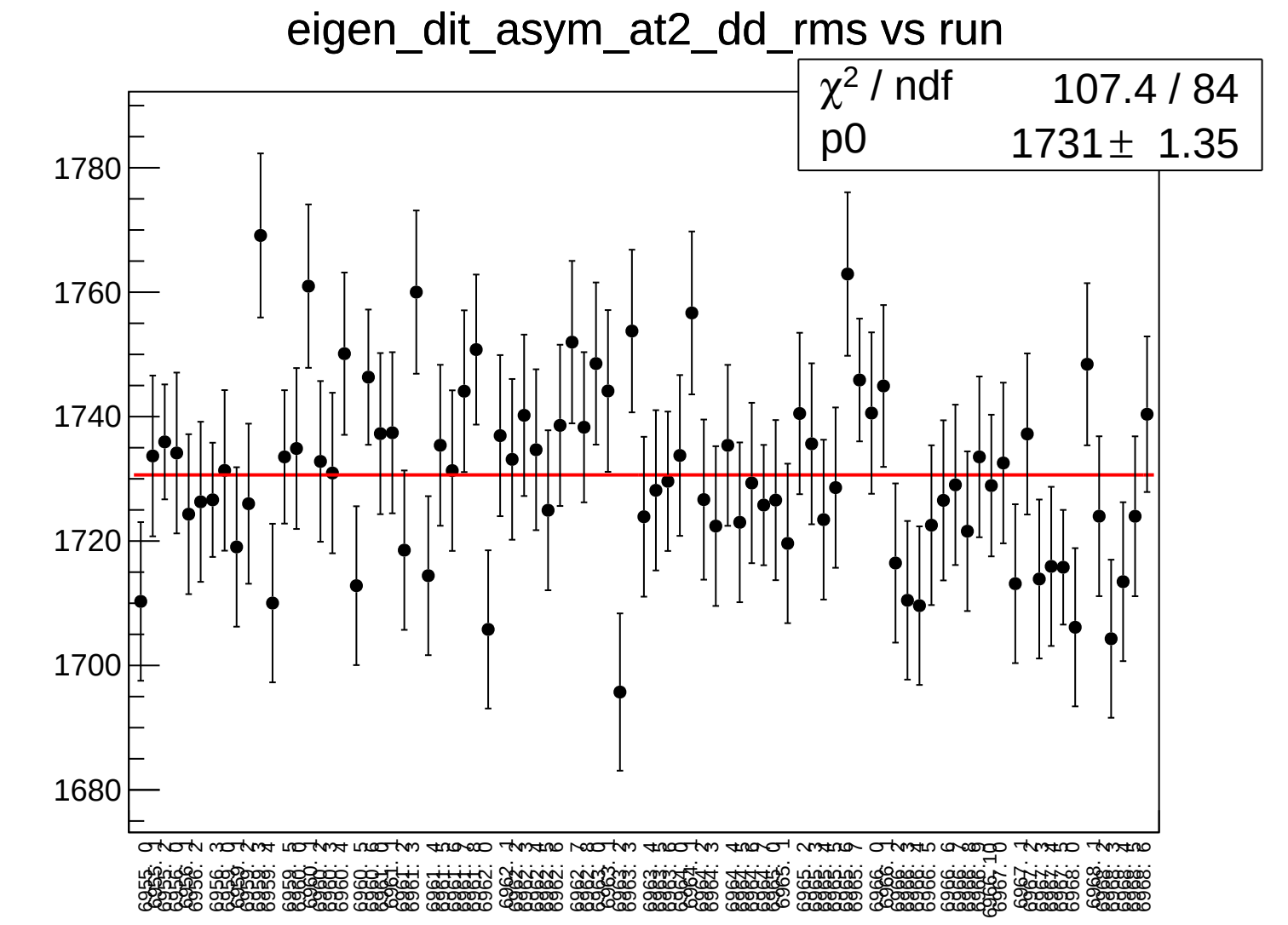

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 96.9 / 84
p0 587.7 ± 1222
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1103
Std Dev 0
3
2
1
0
−1
−2
−3

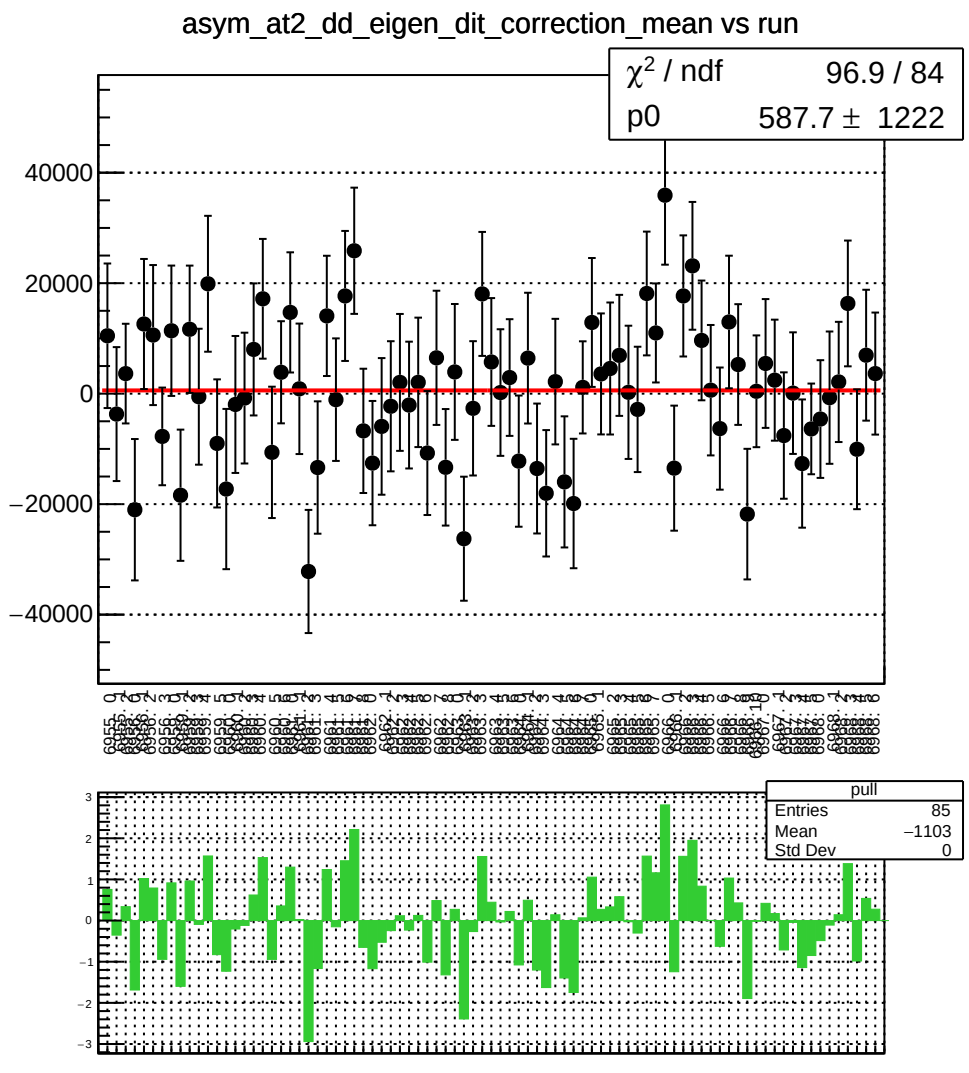

pull1D
Entries 85
Mean −0.0007964
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

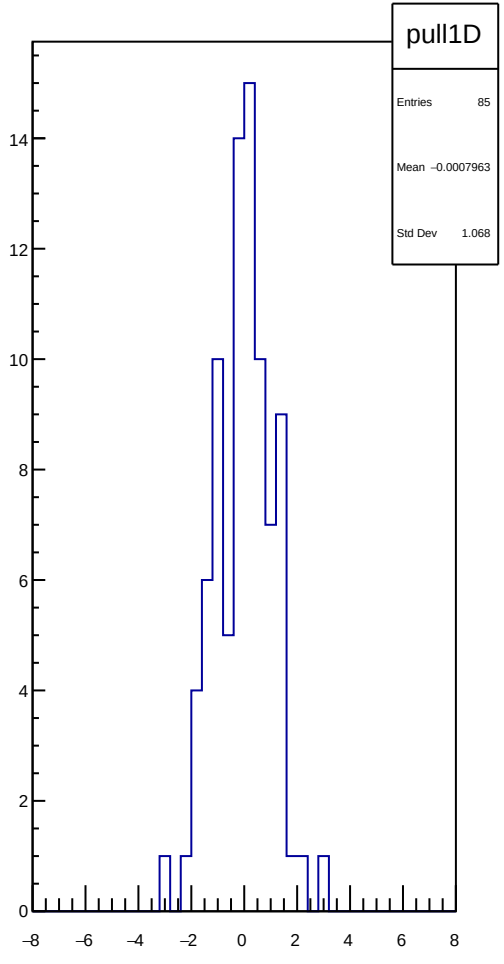

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 4706 / 84
p0 1106 ± 0.864
1400
1350
1300
1250
1200
1150
1100
1050
1000

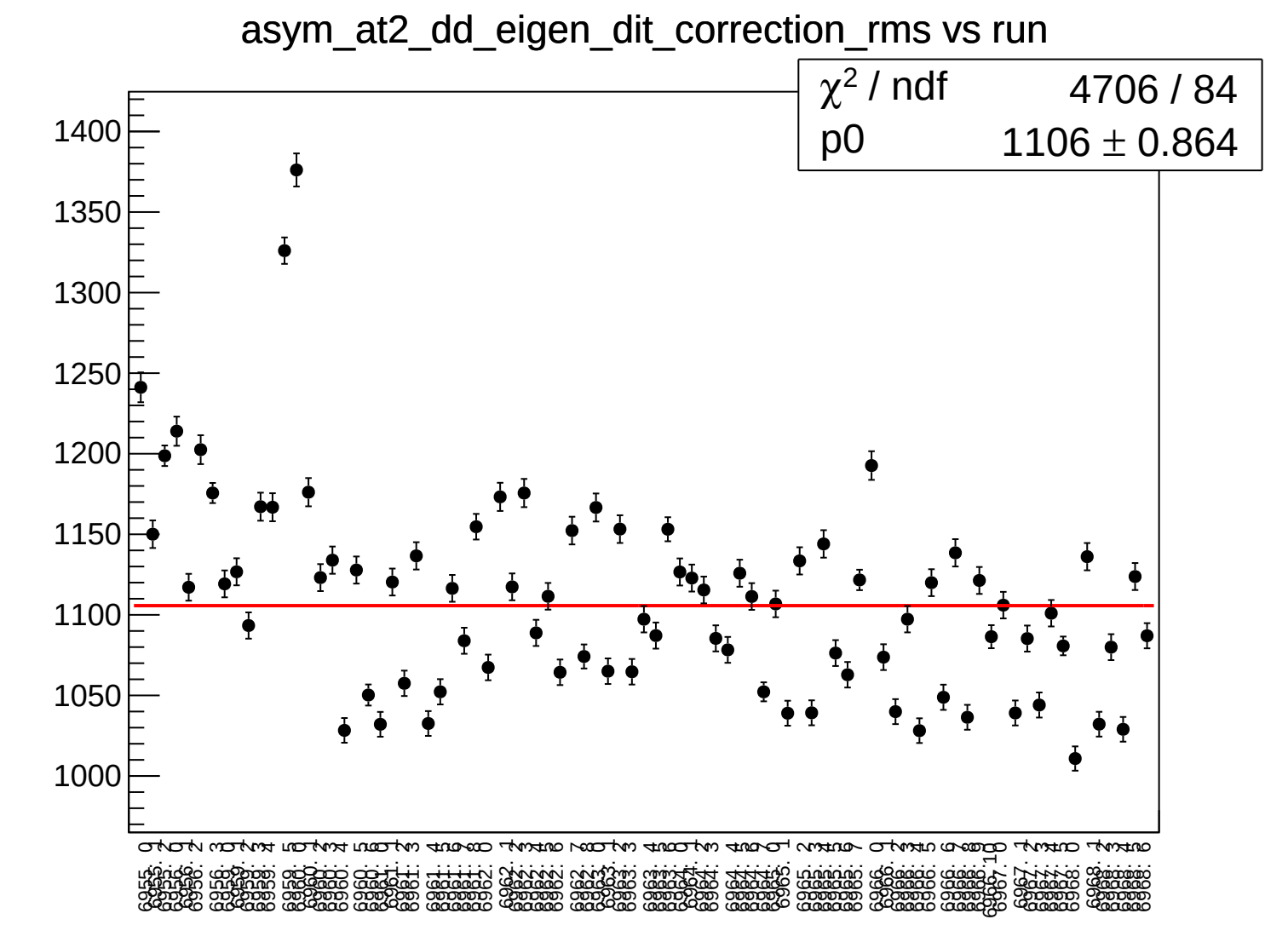

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 89.38 / 84
p0 −1222 ± 1910
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −446.2
Std Dev 0
2
1
0
−1
−2

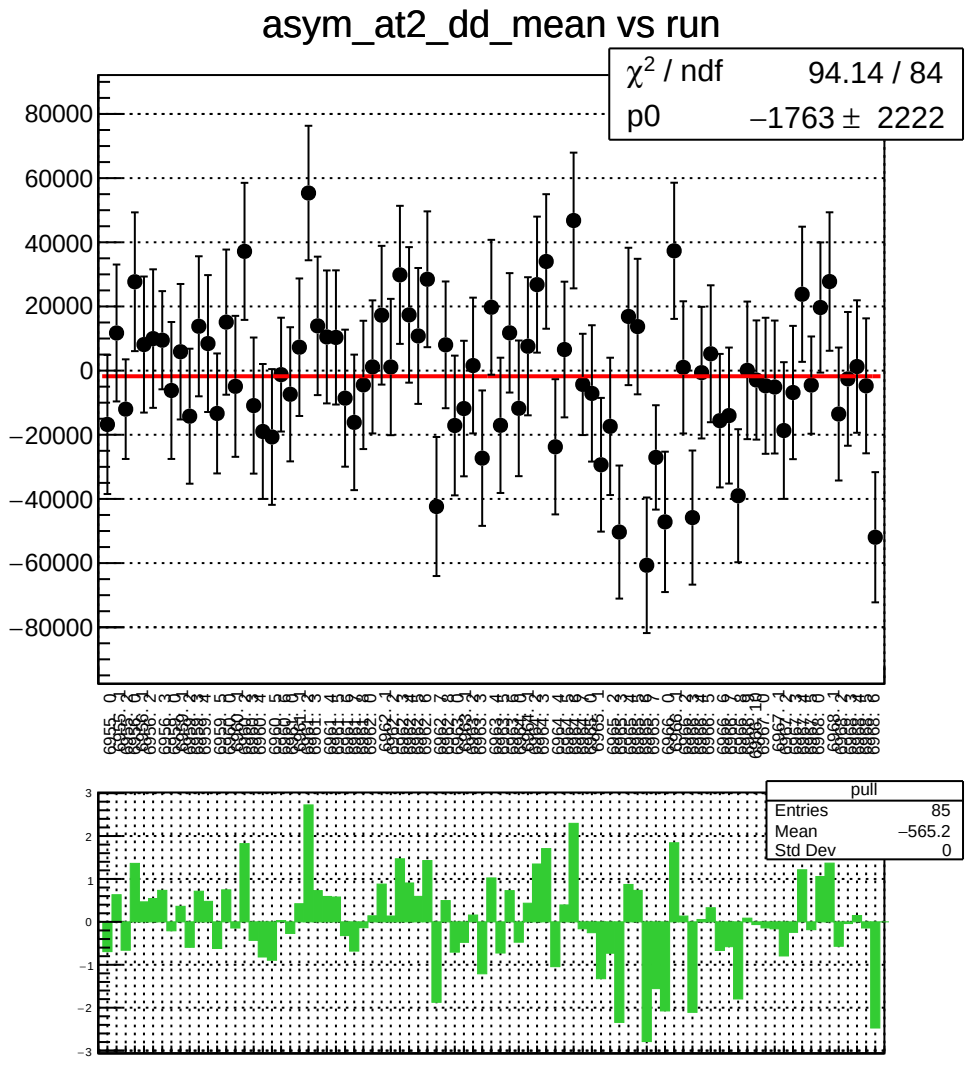

pull1D
Entries 85
Mean 0.0113
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

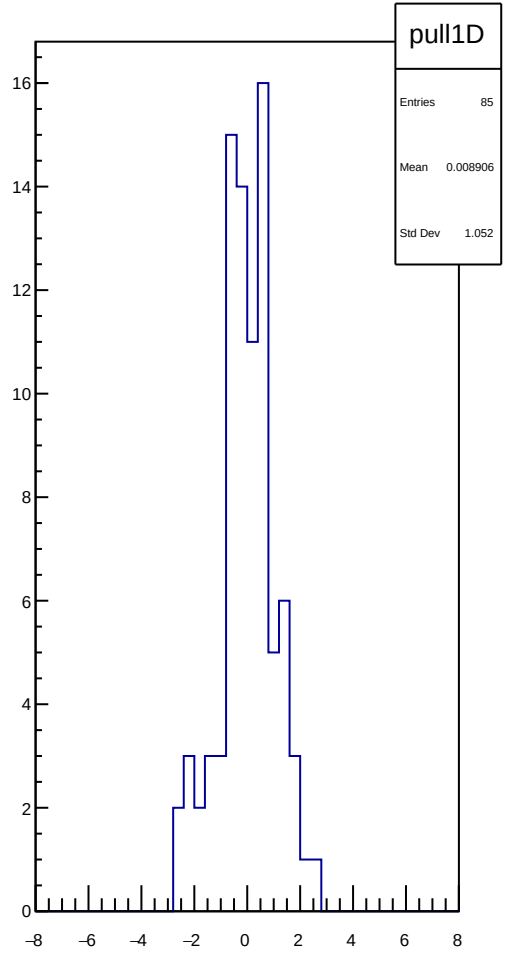

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 107.4 / 84
p0 1731 ± 1.35
1780
1760
1740
1720
1700
1680

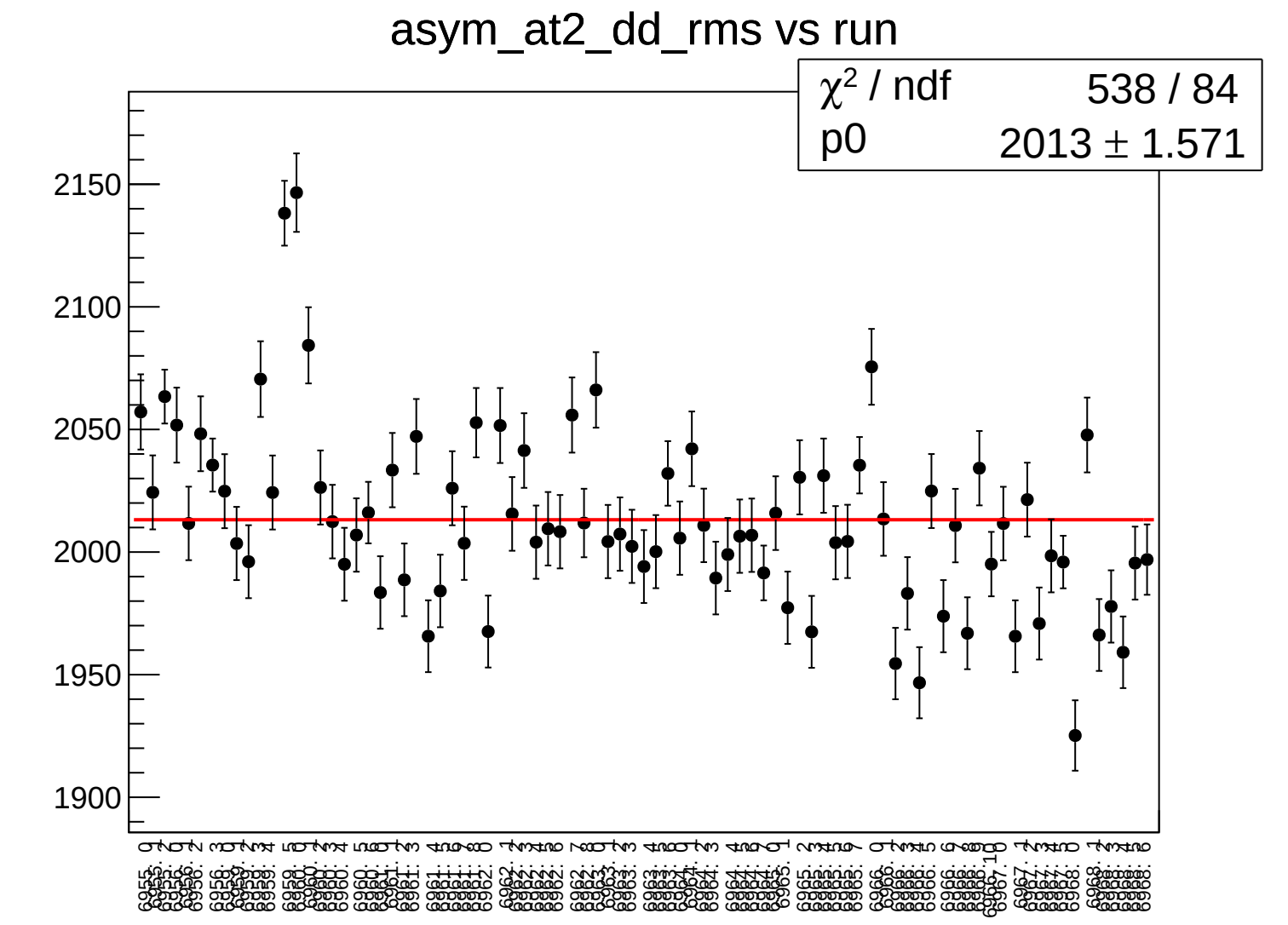

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.9 / 84
p0 587.7 ± 1222
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1103
Std Dev 0
3
2
1
0
−1
−2
−3

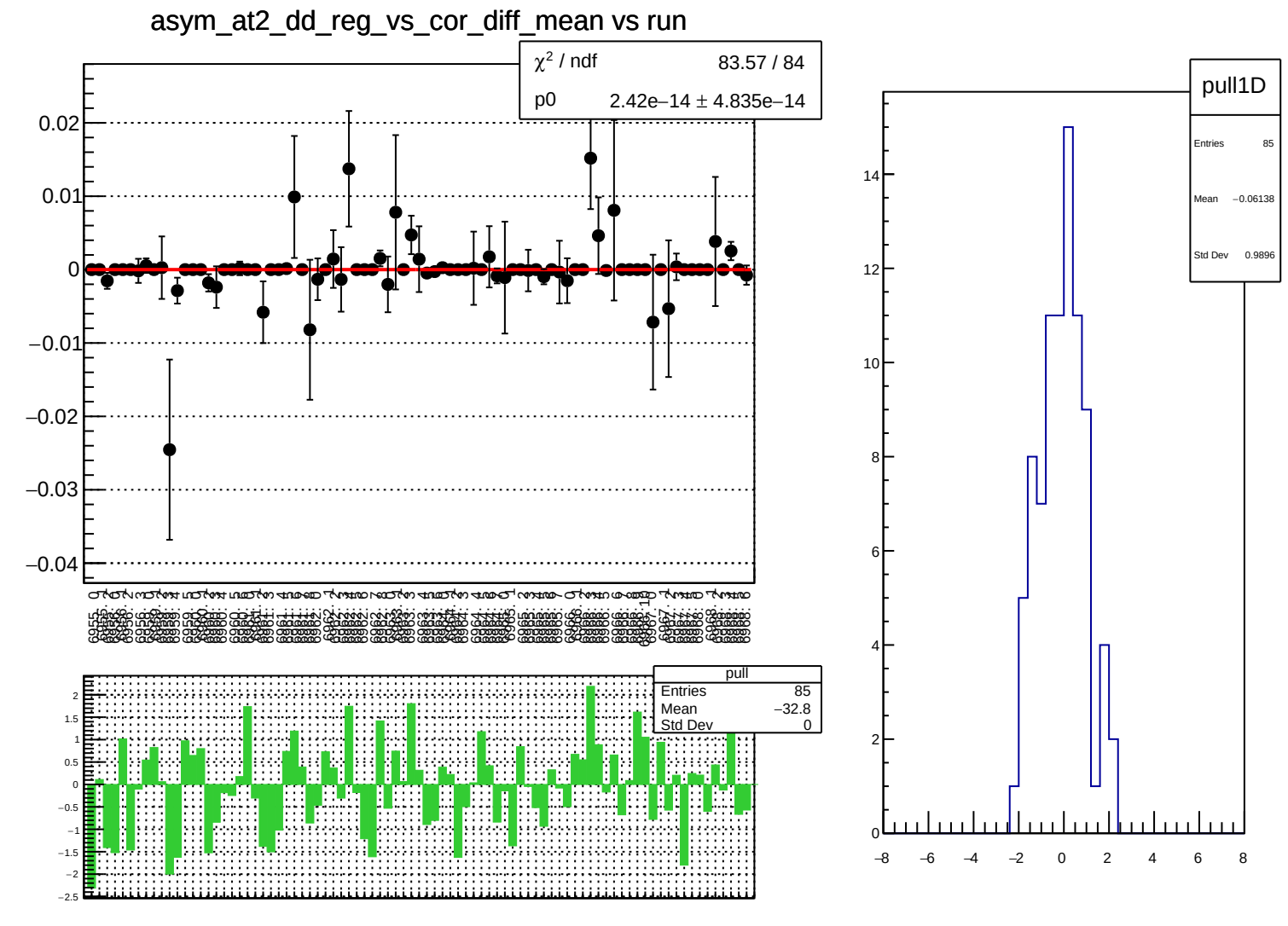

pull1D
Entries 85
Mean −0.0007963
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

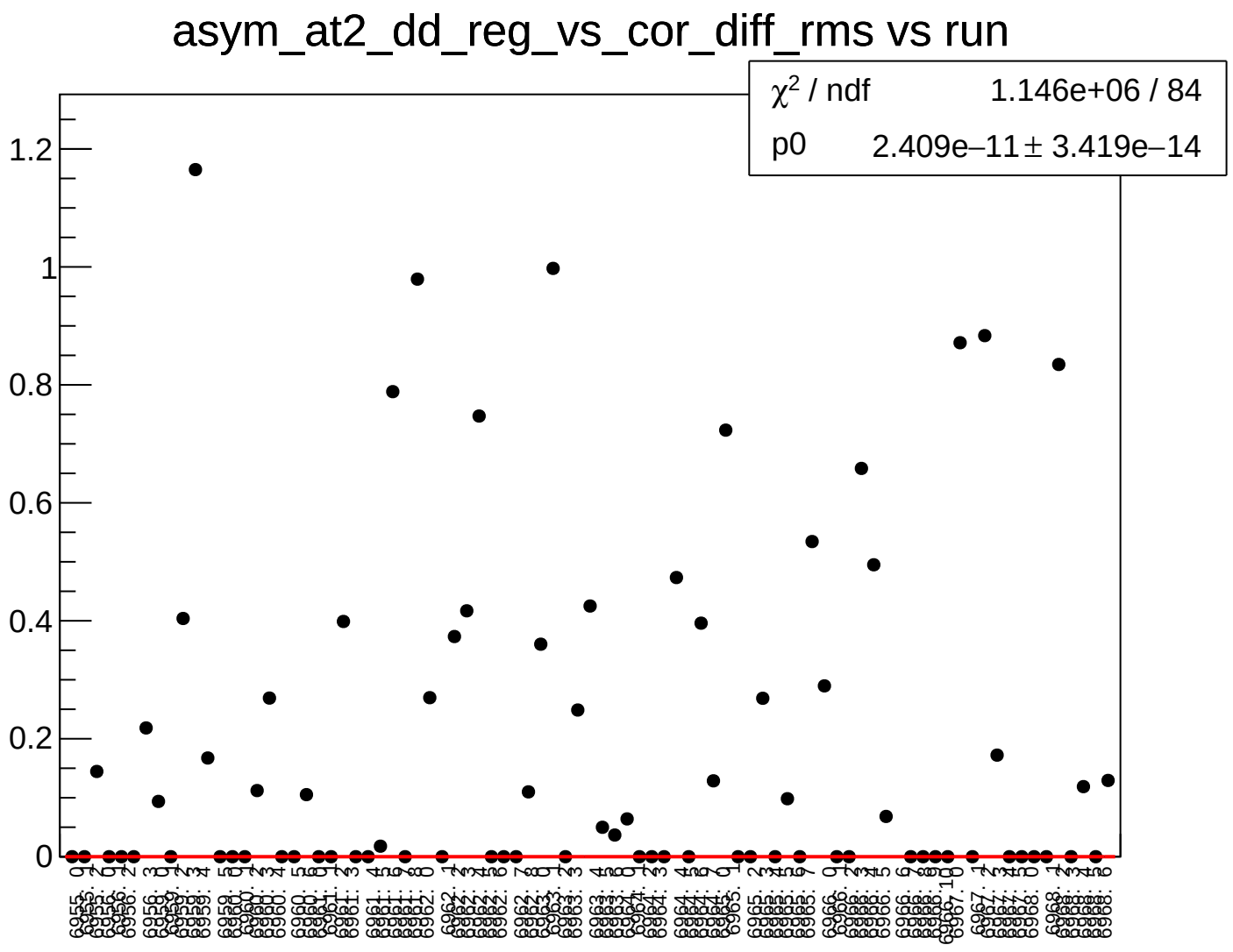

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4706 / 84
p0 1106 ± 0.864
1400
1350
1300
1250
1200
1150
1100
1050
1000

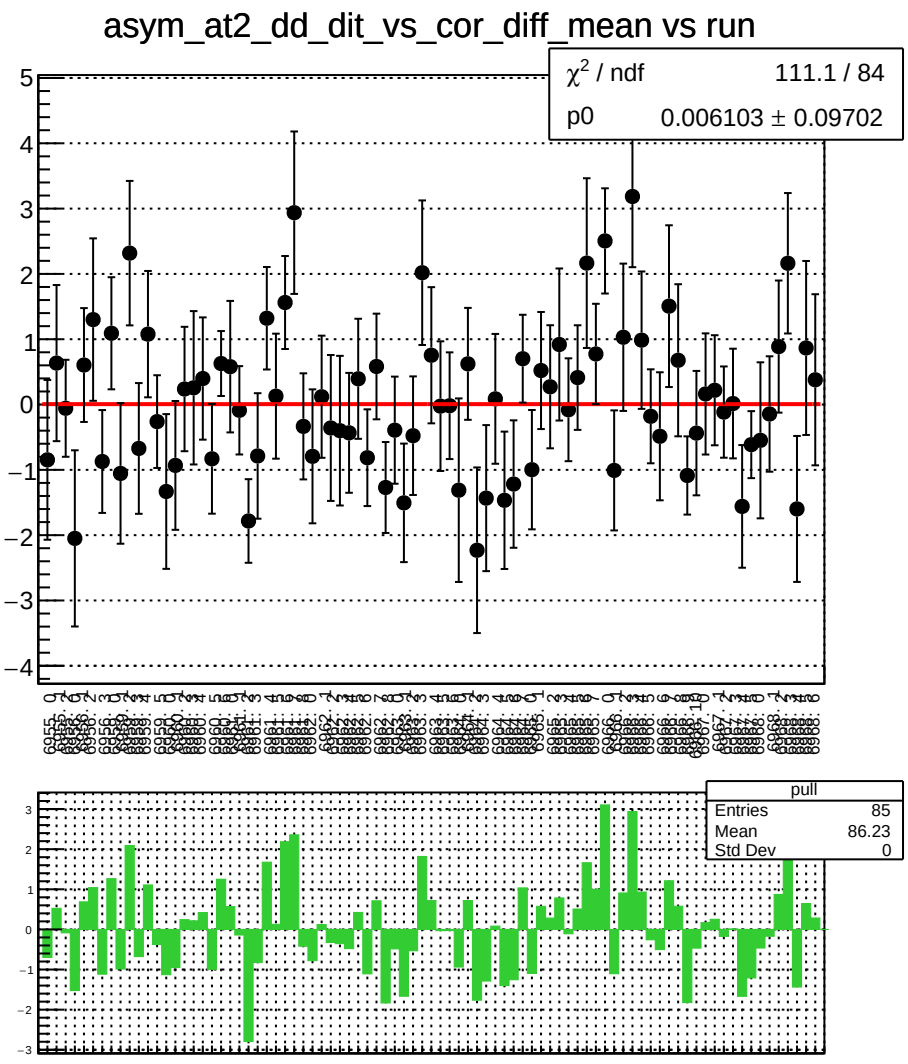

asym_at2_dd_mean vs run
χ² / ndf 94.14 / 84
p0 −1763 ± 2222
pull
Entries 85
Mean −565.2
Std Dev 0

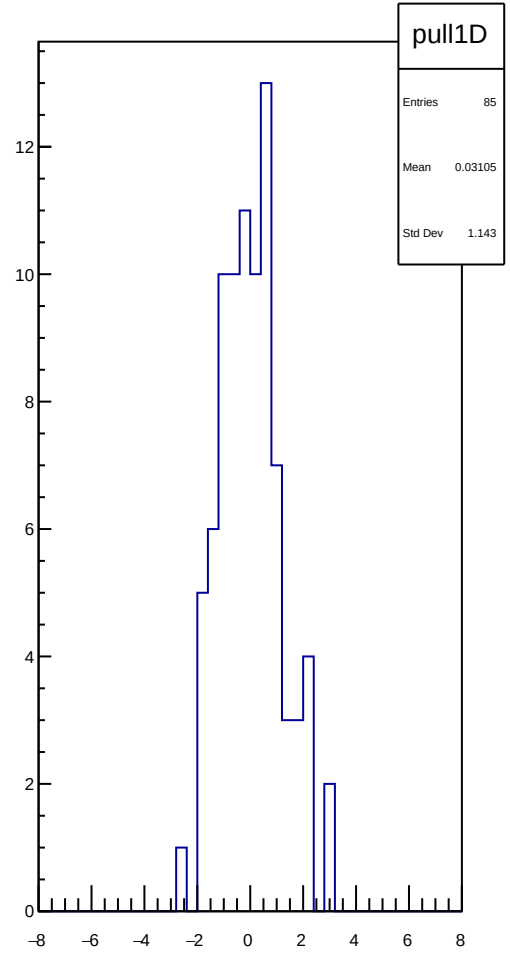

pull1D
Entries 85
Mean 0.008906
Std Dev 1.052

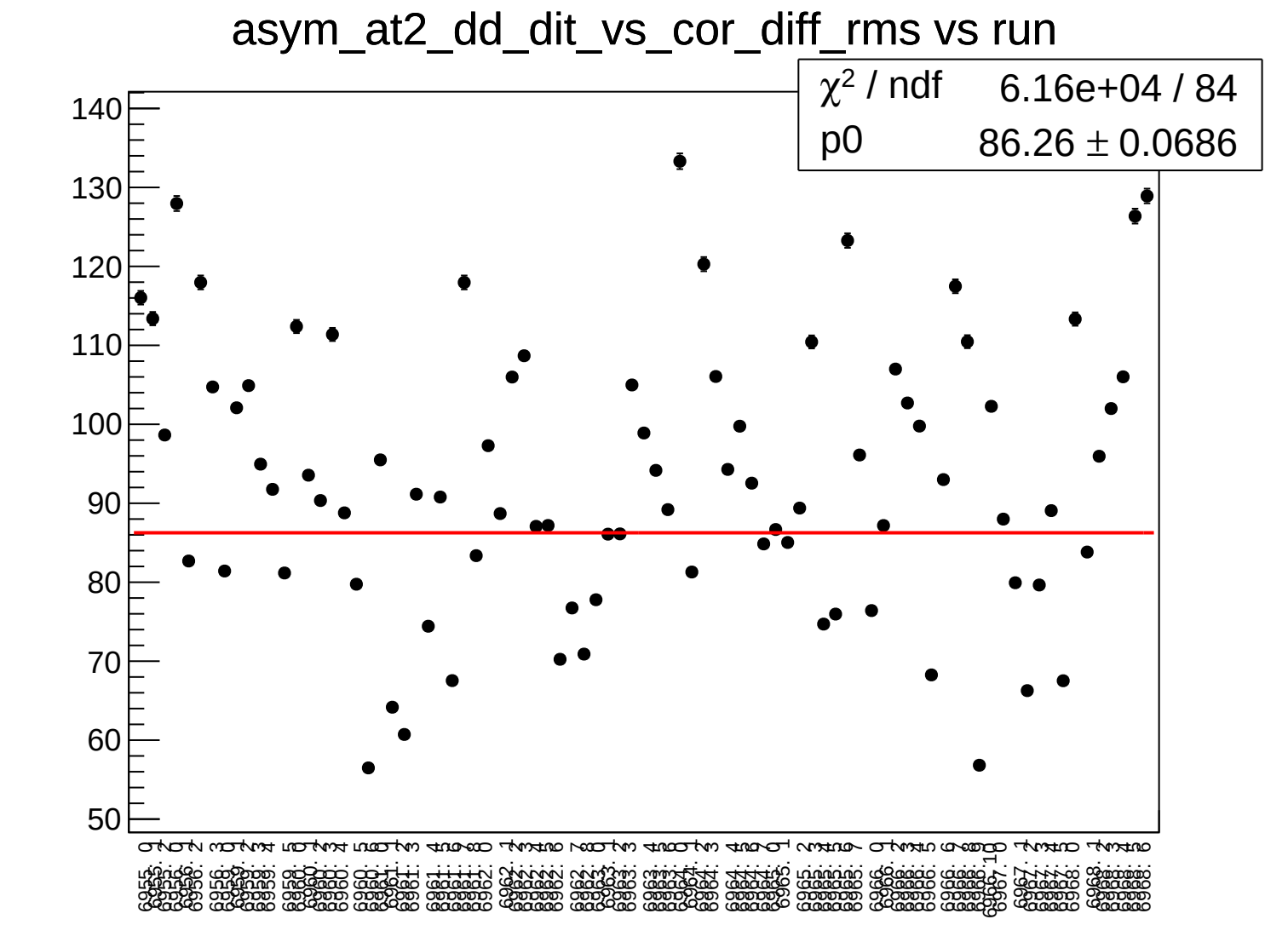

asym_at2_dd_rms vs run
$\chi^2$ / ndf 538 / 84
p0 2013 ± 1.571
2150
2100
2050
2000
1950
1900

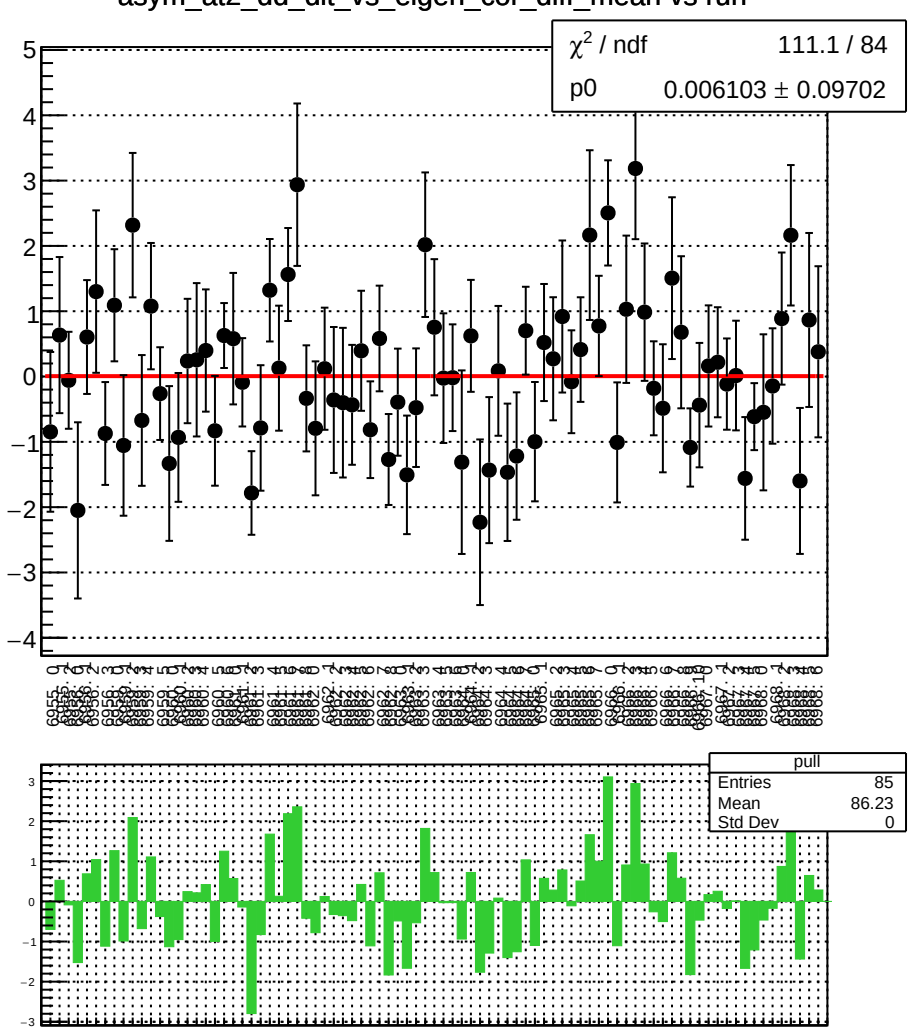

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.57 / 84
p0 2.42e−14 ± 4.835e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 85
Mean −32.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean −0.06138
Std Dev 0.9896
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

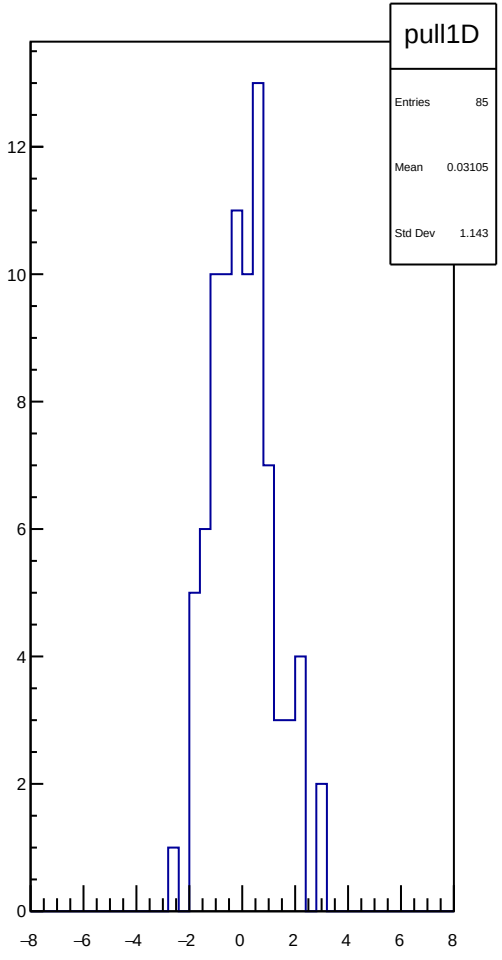

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.146e+06 / 84
p0 2.409e−11 ± 3.419e−14
1.2
1
0.8
0.6
0.4
0.2
0

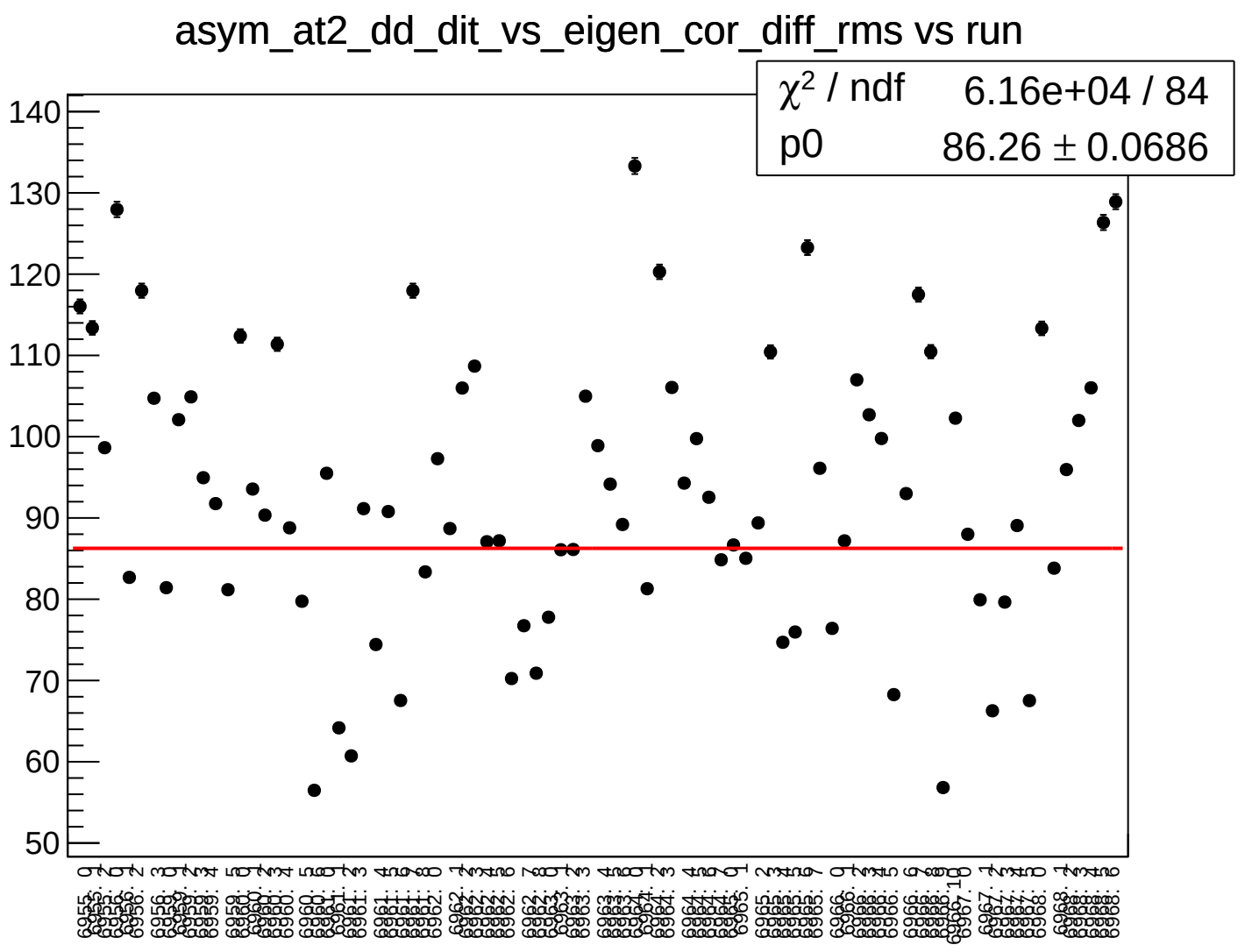

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 111.1 / 84
p0 0.006103 ± 0.09702
pull
Entries 85
Mean 86.23
Std Dev 0

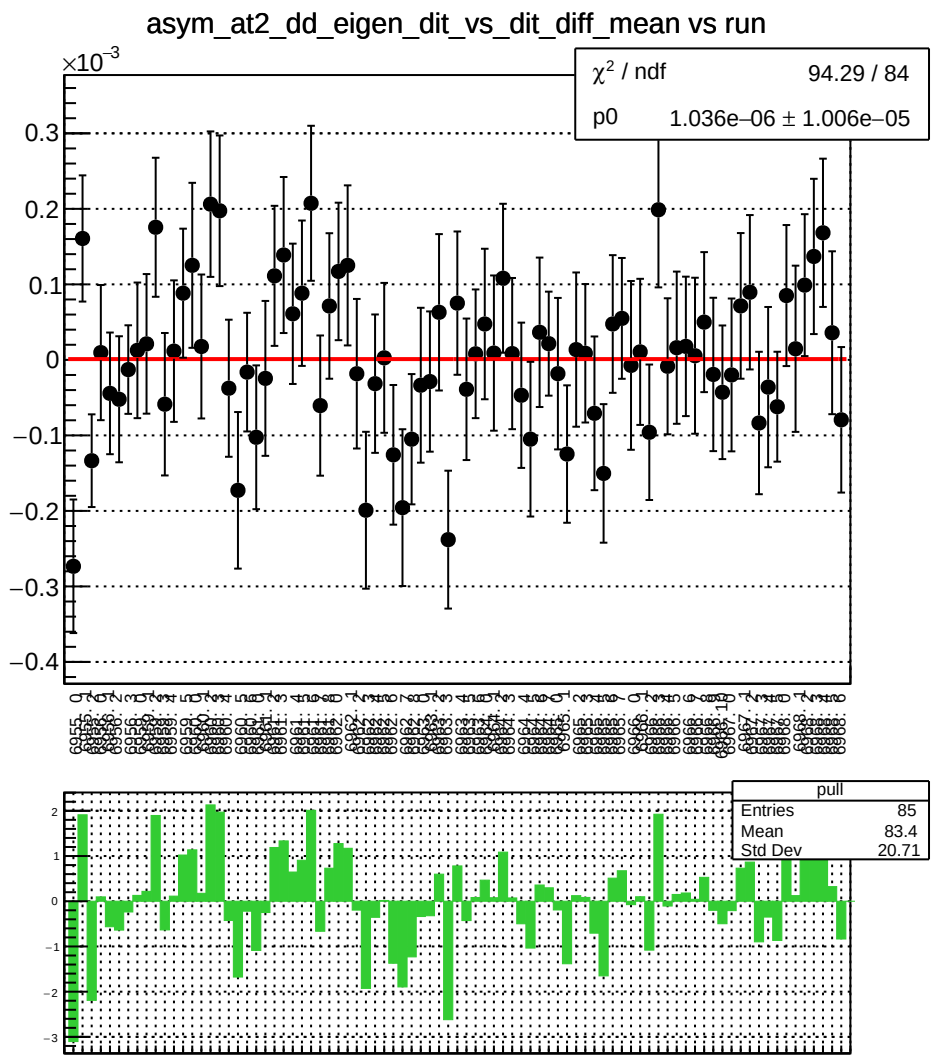

pull1D
Entries 85
Mean 0.03105
Std Dev 1.143

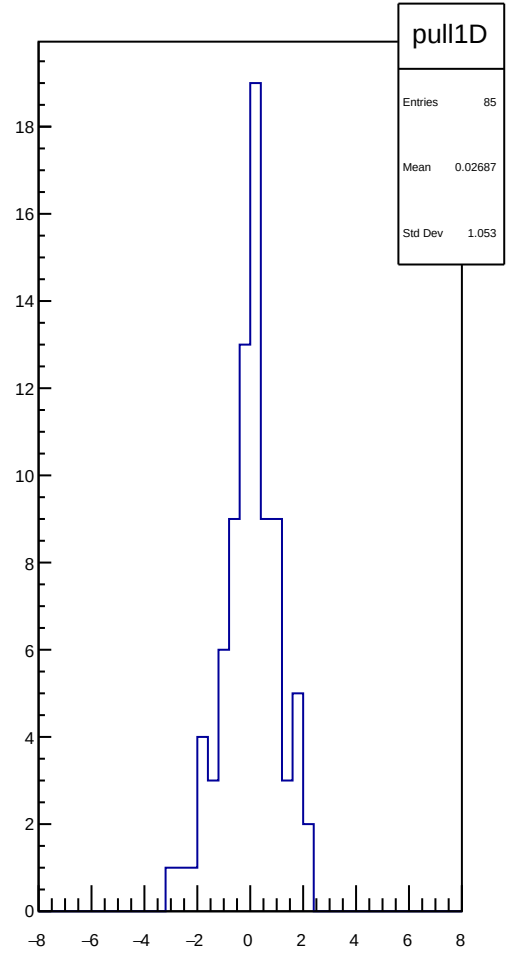

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.16e+04 / 84
p0 86.26 ± 0.0686
140
130
120
110
100
90
80
70
60
50

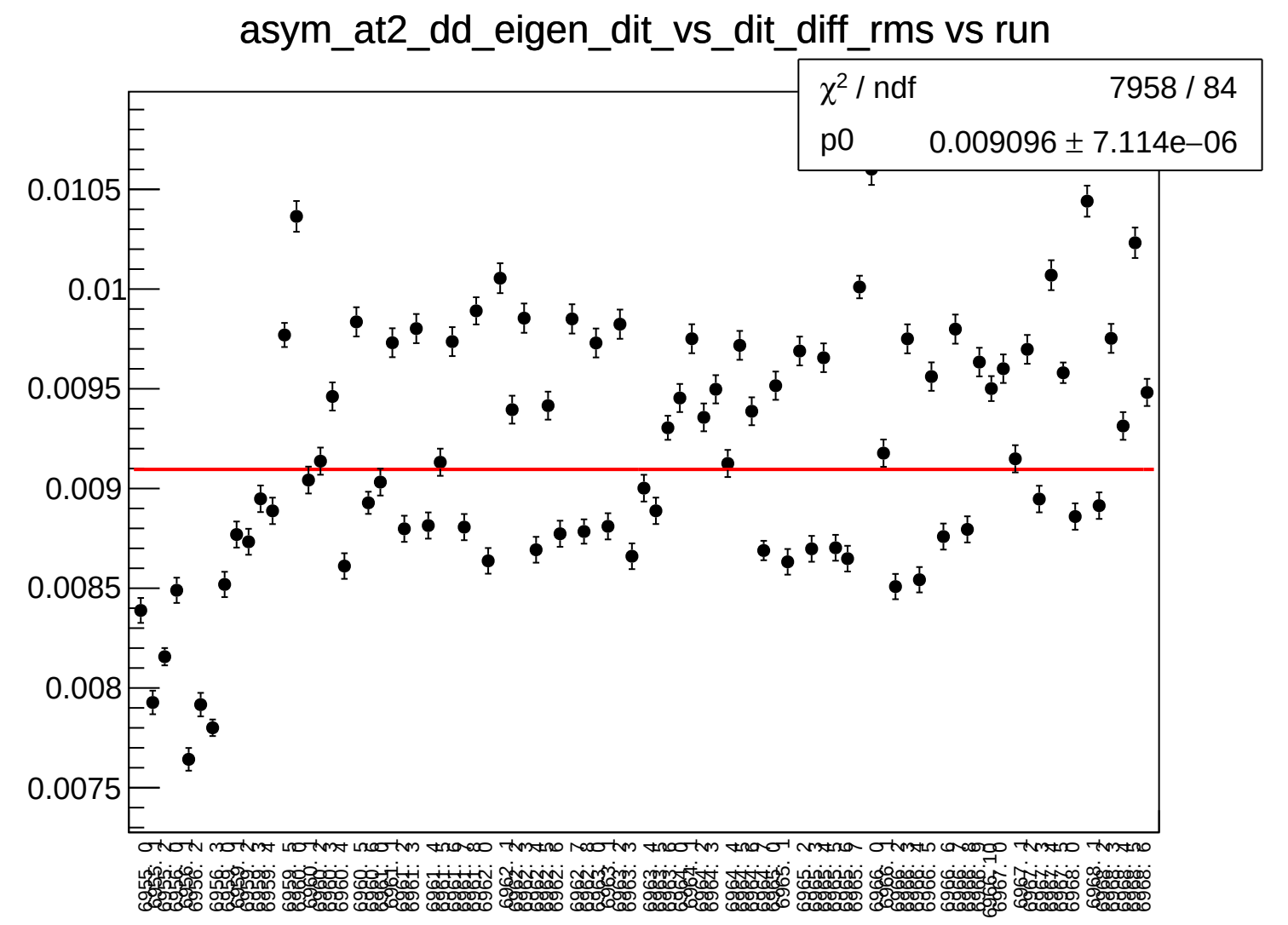

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.1 / 84
p0 0.006103 ± 0.09702
pull
Entries 85
Mean 86.23
Std Dev 0

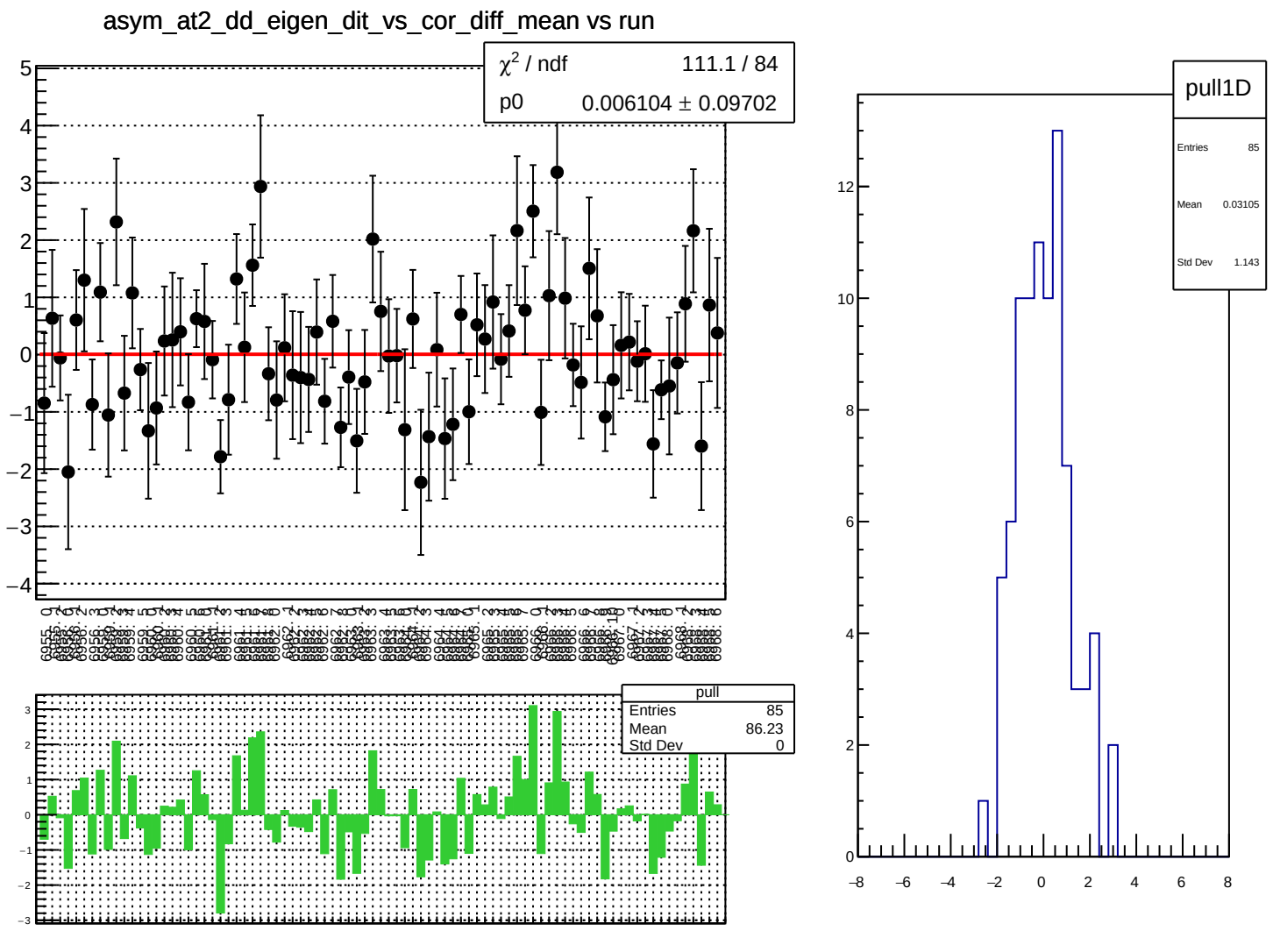

pull1D
Entries 85
Mean 0.03105
Std Dev 1.143

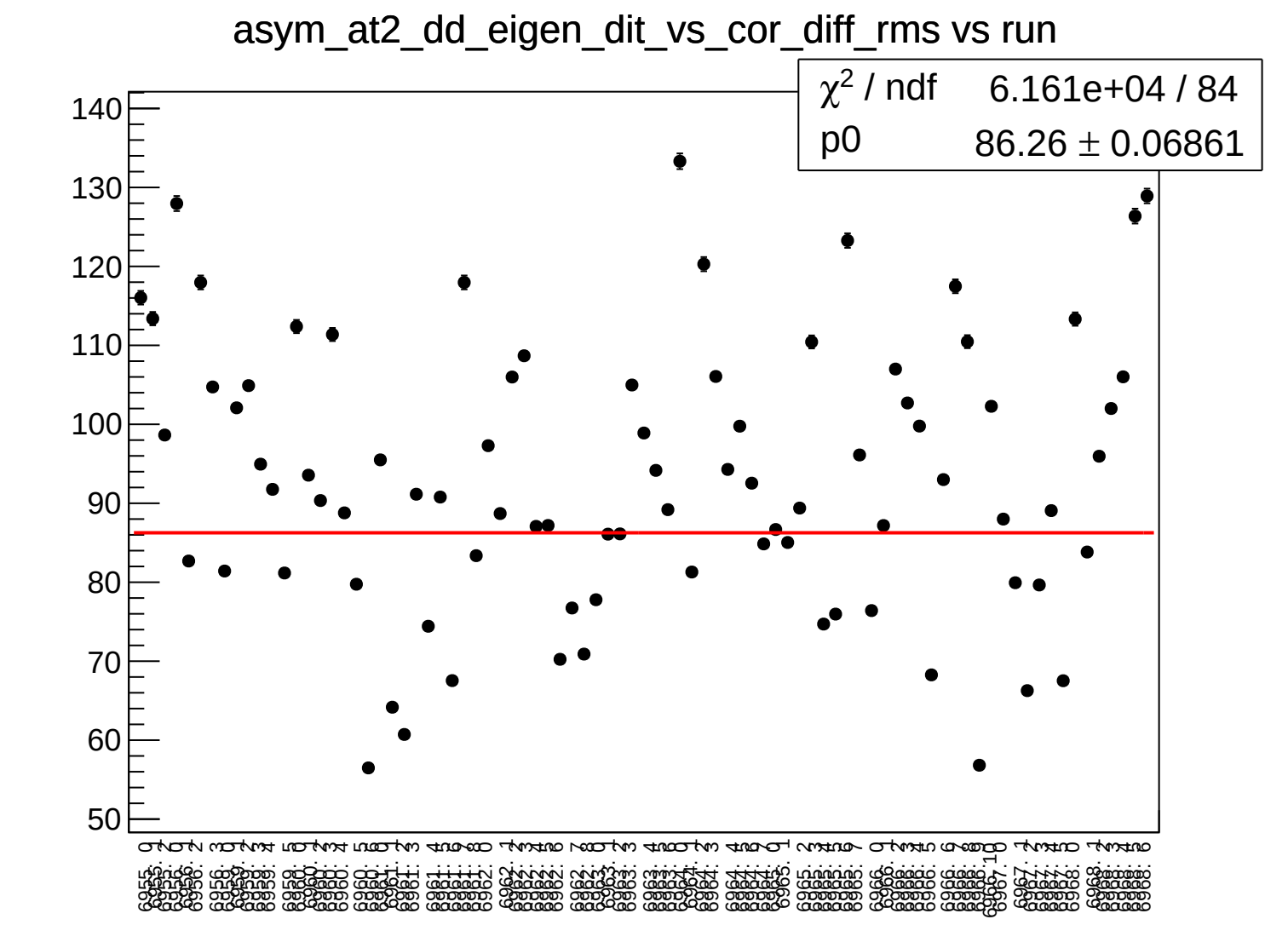

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.16e+04 / 84
p0 86.26 ± 0.0686
140
130
120
110
100
90
80
70
60
50

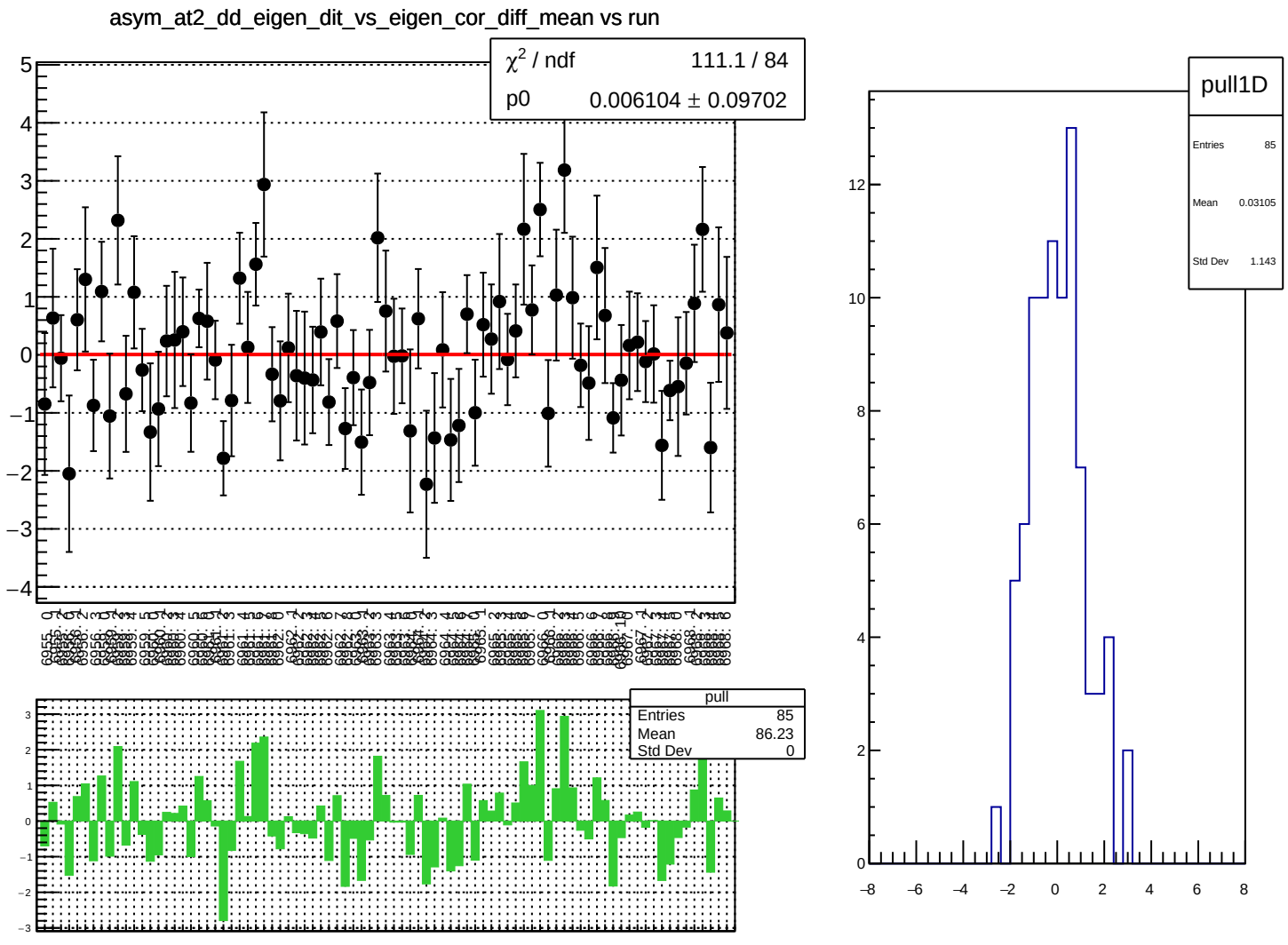

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 94.29 / 84
p0 1.036e−06 ± 1.006e−05
pull
Entries 85
Mean 83.4
Std Dev 20.71

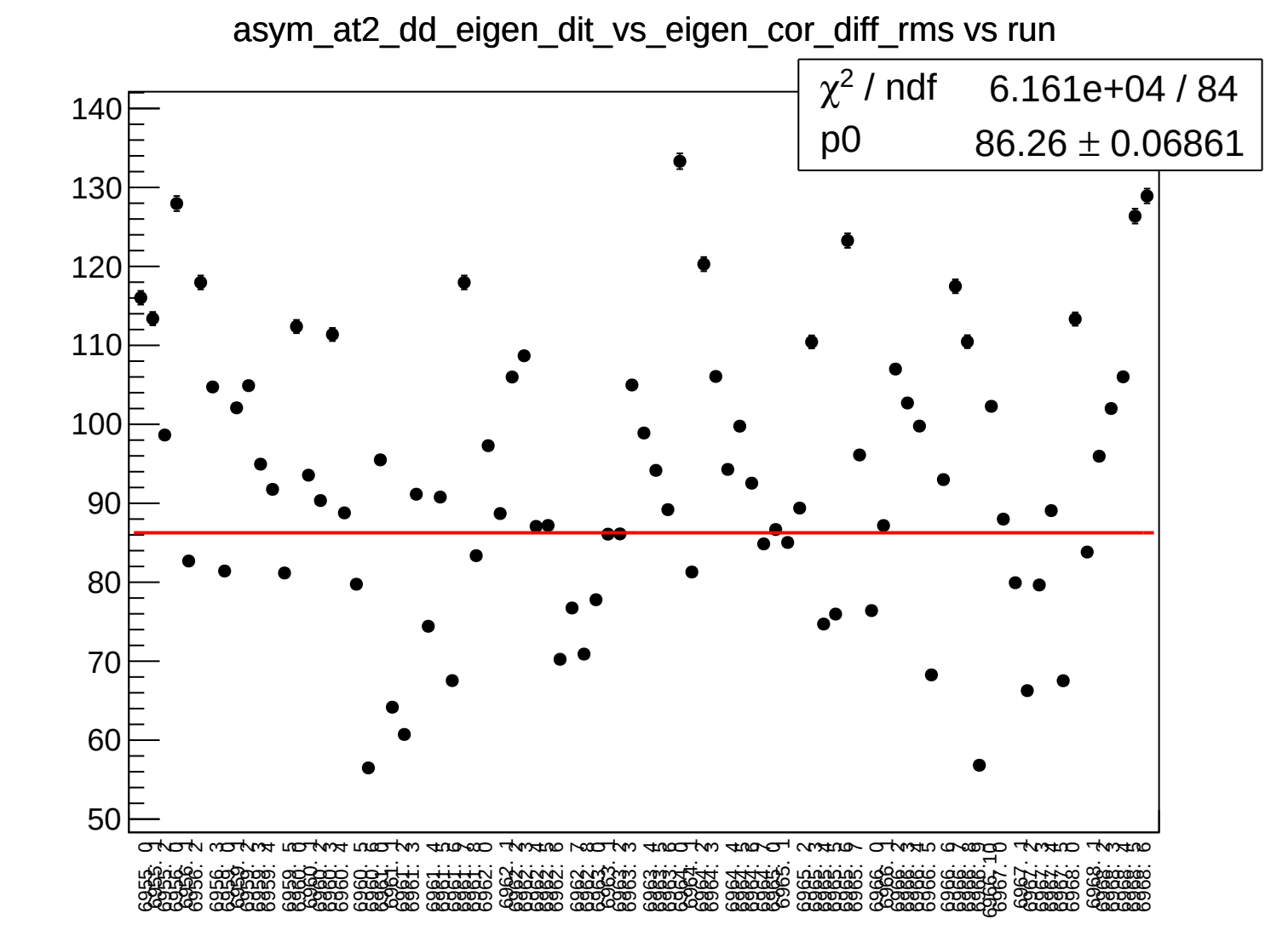

pull1D
Entries 85
Mean 0.02687
Std Dev 1.053


asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7958 / 84
p0 0.009096 ± 7.114e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

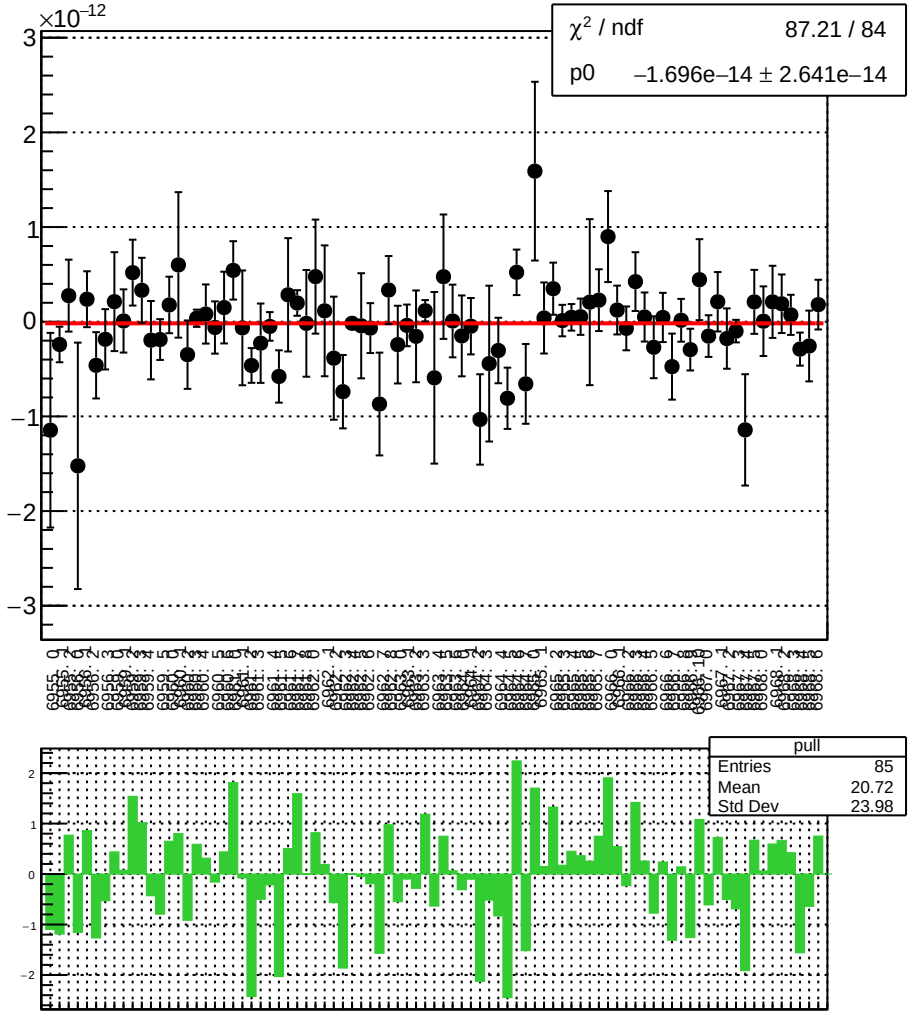

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.1 / 84
p0 0.006104 ± 0.09702
pull
Entries 85
Mean 86.23
Std Dev 0
pull1D
Entries 85
Mean 0.03105
Std Dev 1.143

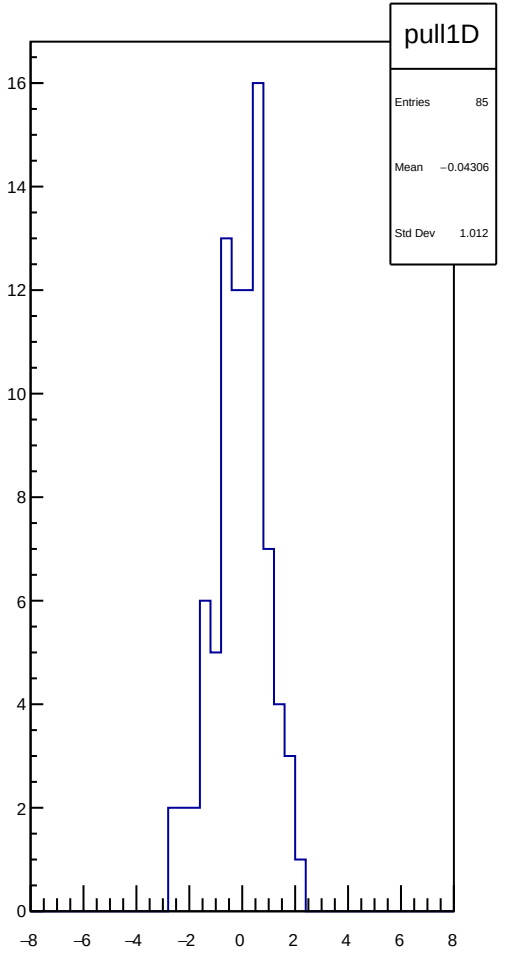

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.161e+04 / 84
p0 86.26 ± 0.06861
140
130
120
110
100
90
80
70
60
50

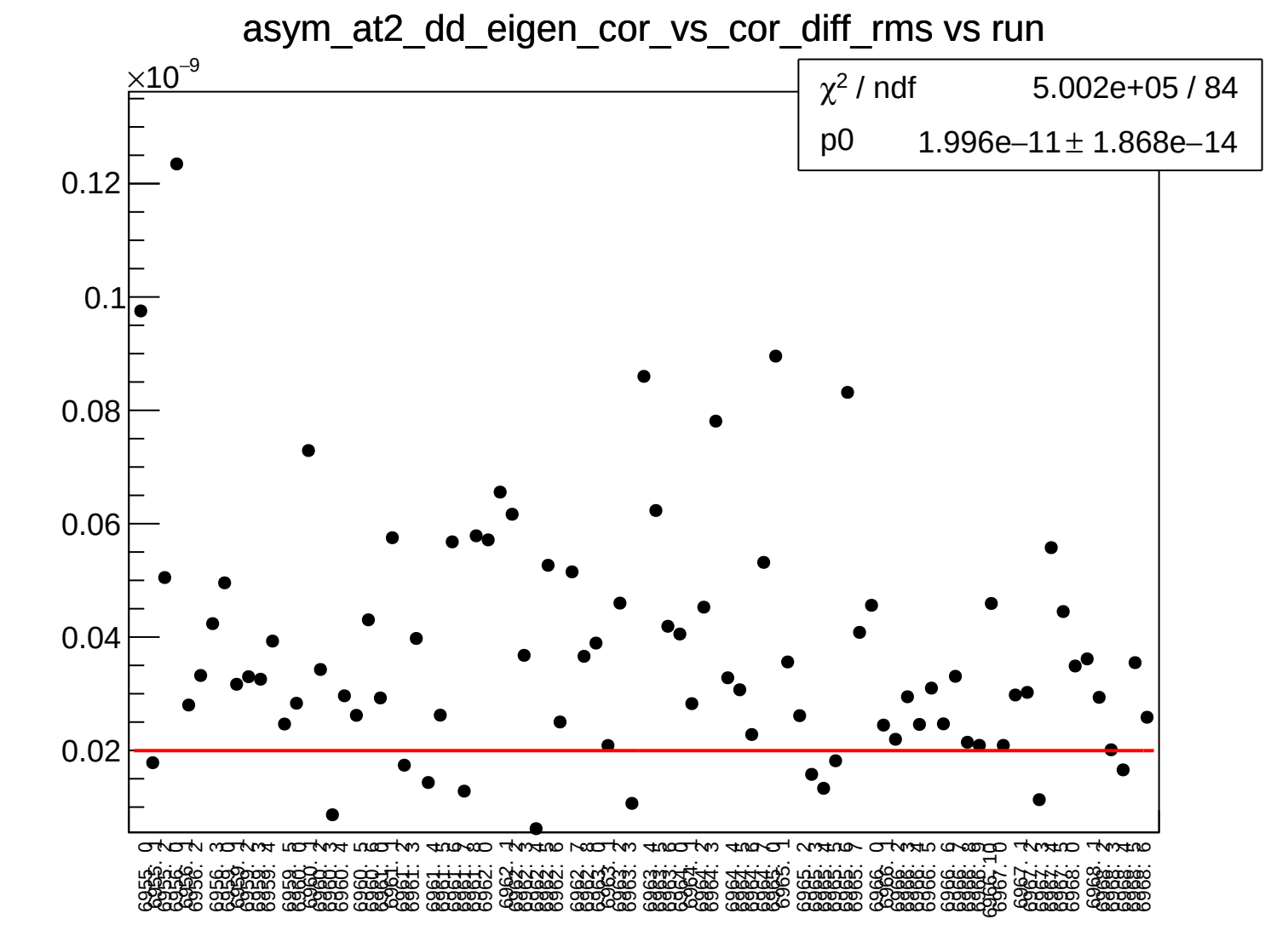

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.1 / 84
p0 0.006104 ± 0.09702
pull
Entries 85
Mean 86.23
Std Dev 0
pull1D
Entries 85
Mean 0.03105
Std Dev 1.143

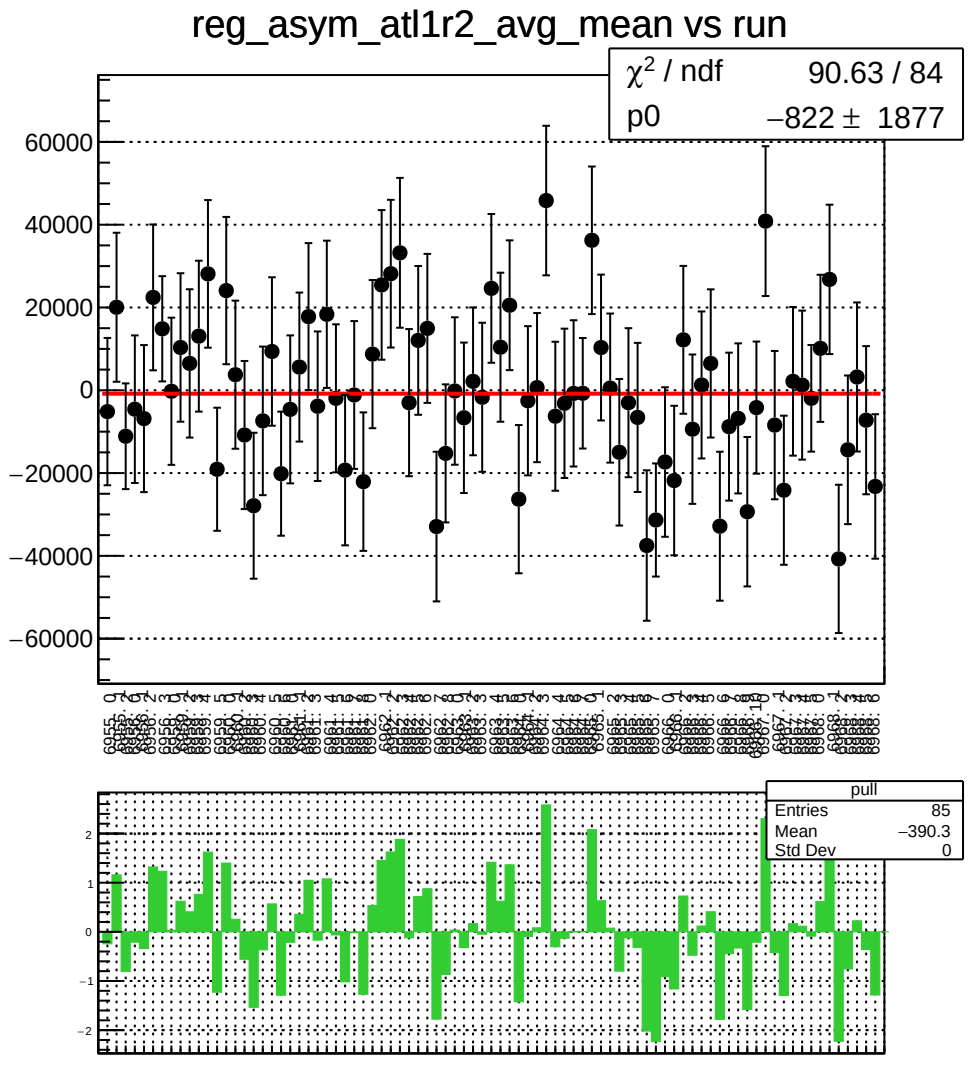

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.161e+04 / 84
p0 86.26 ± 0.06861
140
130
120
110
100
90
80
70
60
50

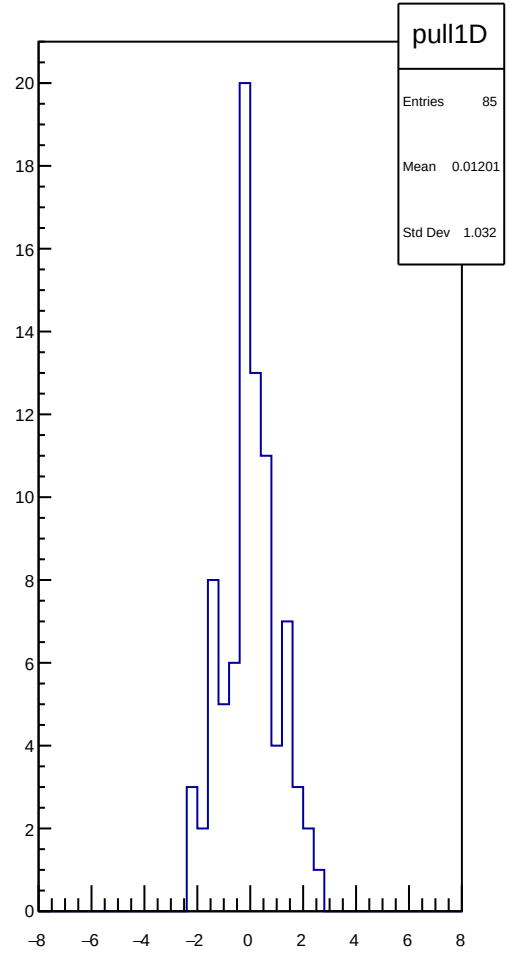
asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run

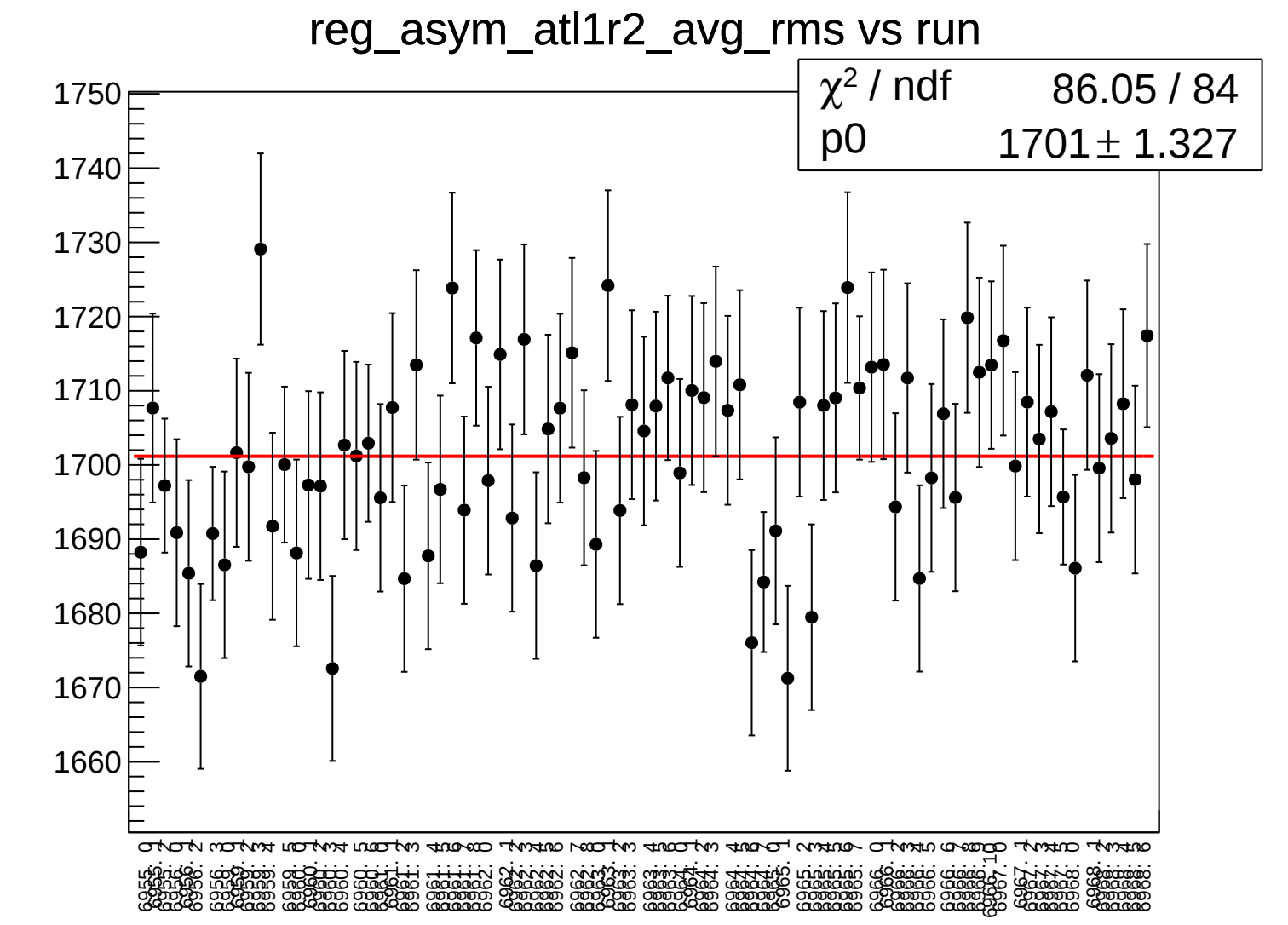


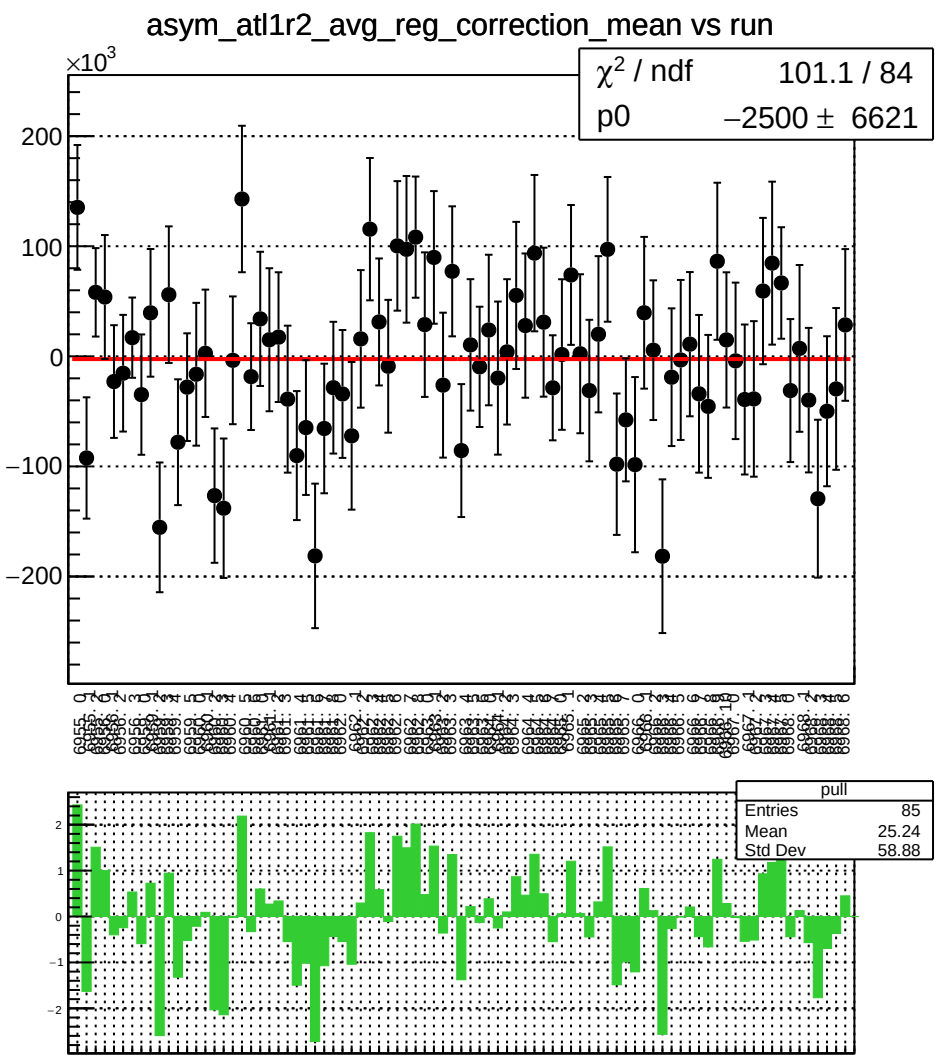



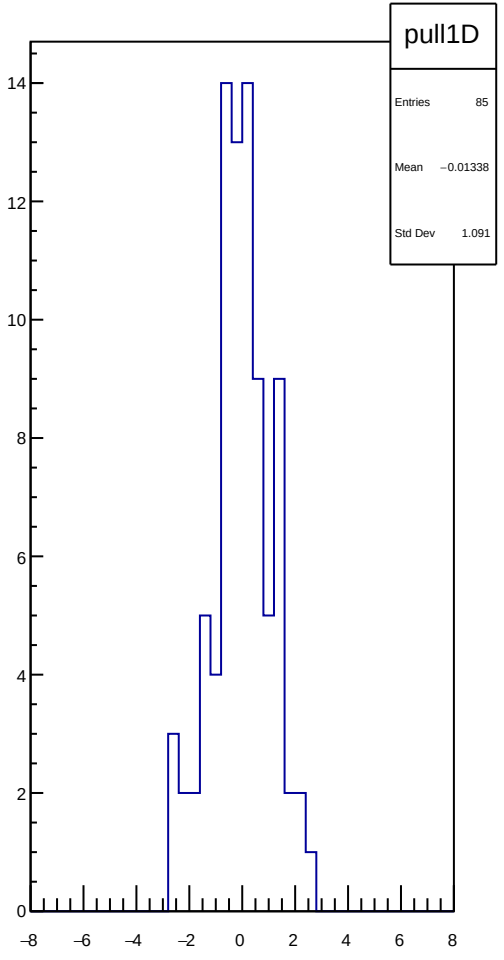

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.002e+05 / 84
p0 1.996e−11 ± 1.868e−14
0.12
0.1
0.08
0.06
0.04
0.02

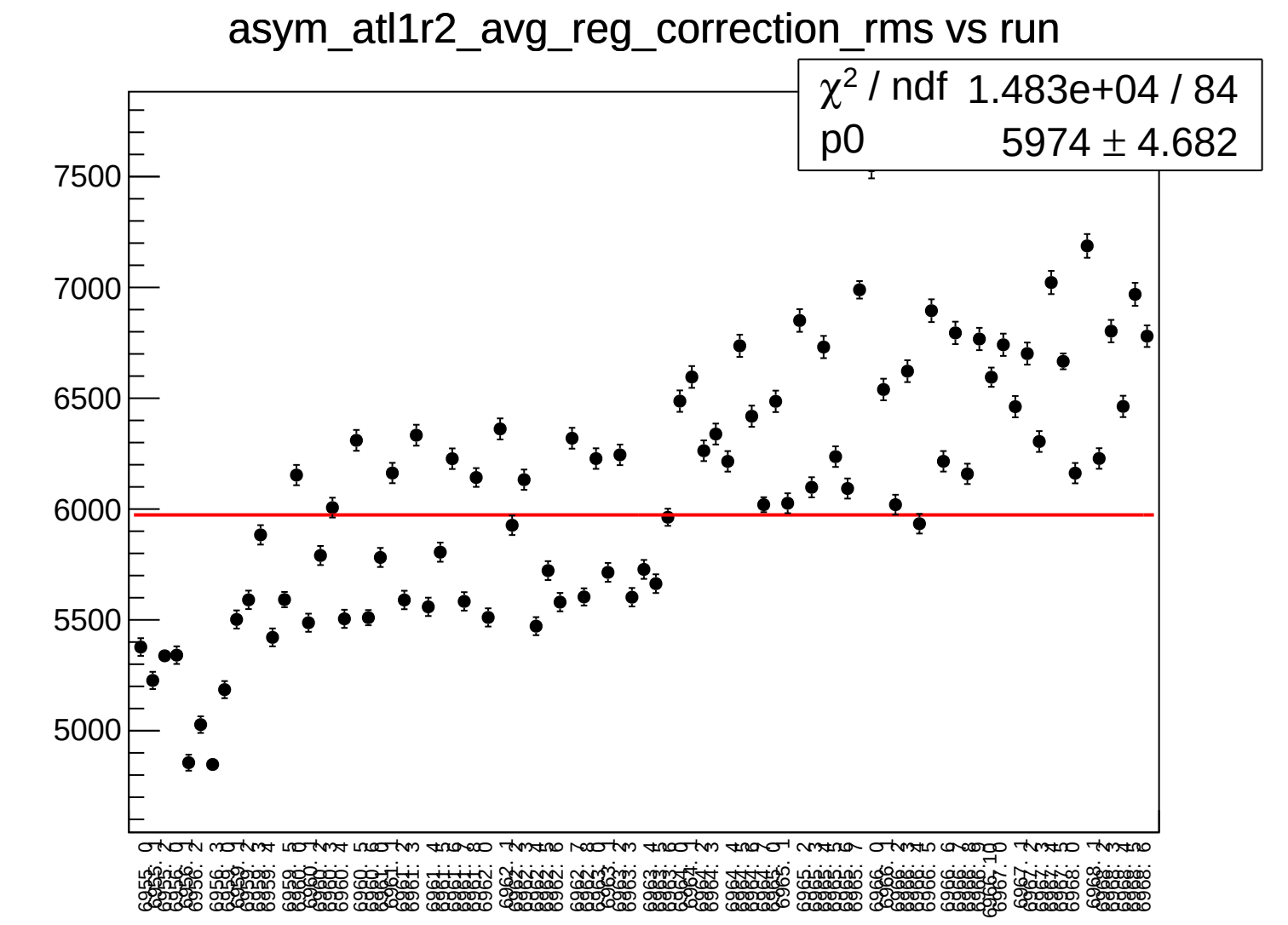

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 90.63 / 84
p0 −822 ± 1877
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −390.3
Std Dev 0
2
1
0
−1
−2

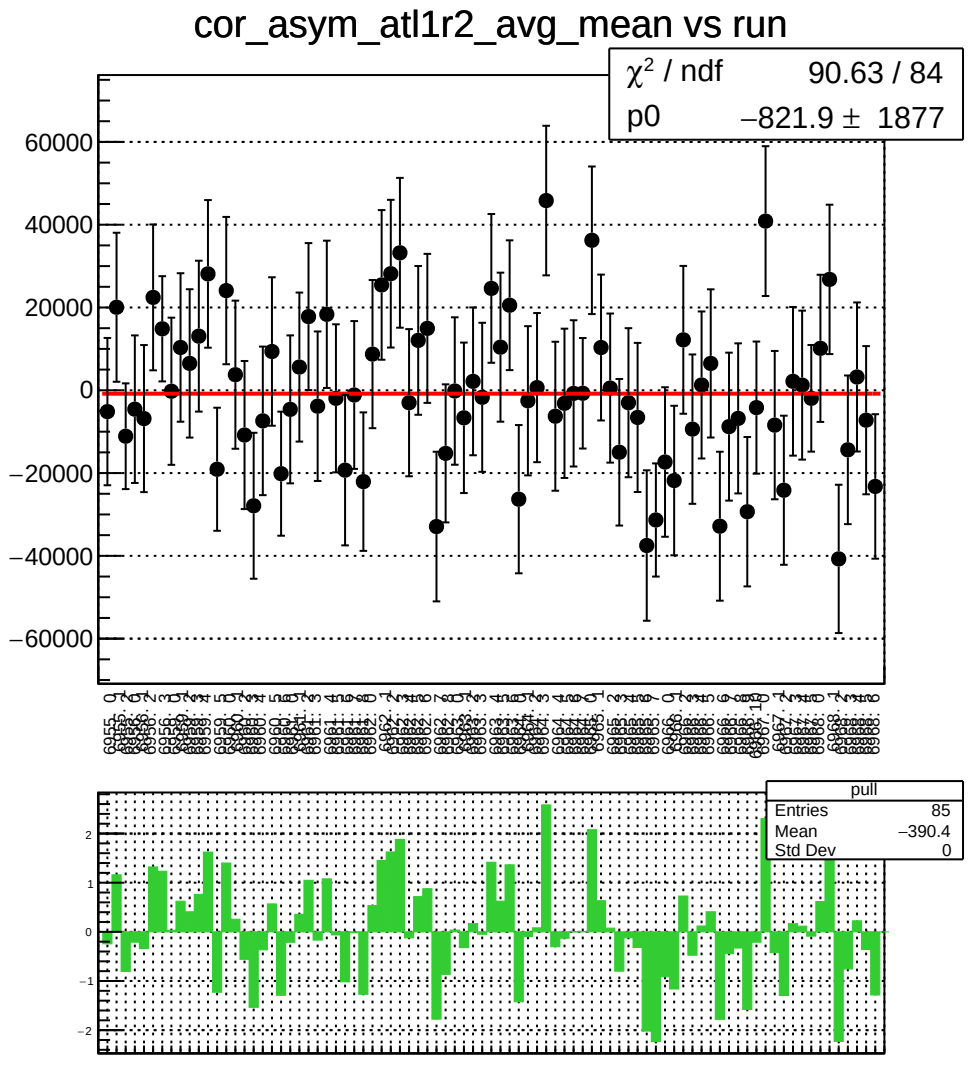

pull1D
Entries 85
Mean 0.01201
Std Dev 1.032
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

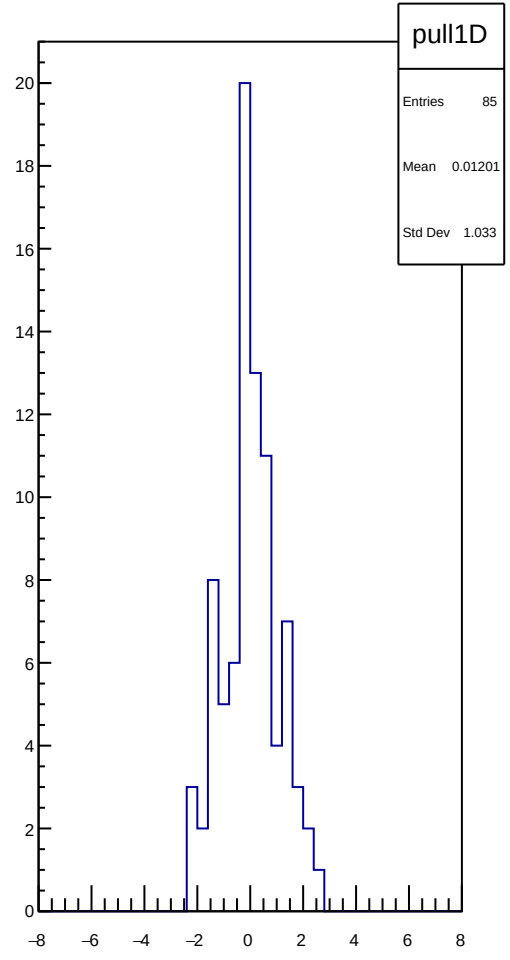

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 86.05 / 84
p0 1701 ± 1.327
1750
1740
1730
1720
1710
1700
1690
1680
1670
1660

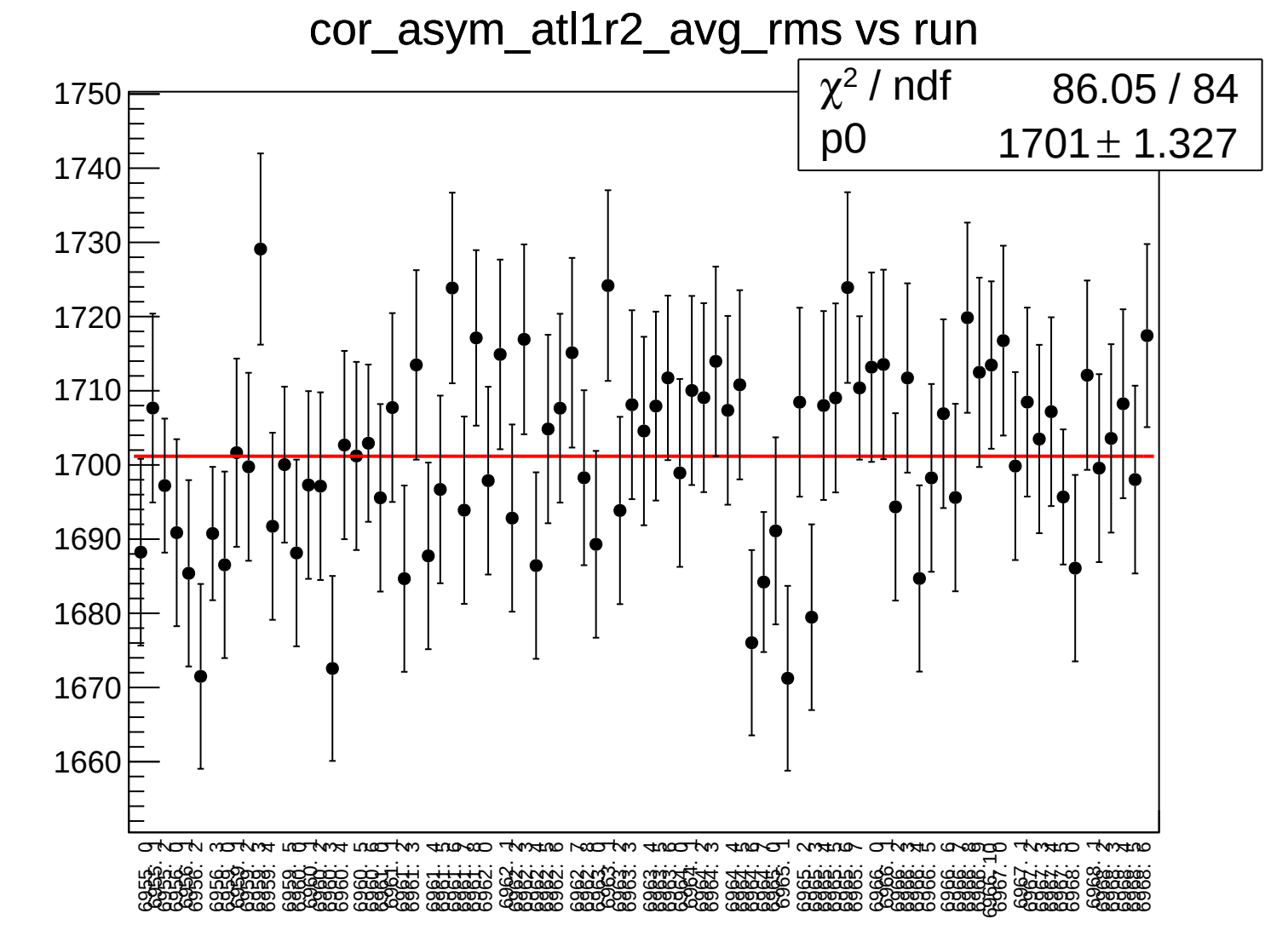

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.1 / 84
p0 −2500 ± 6621
200
100
0
−100
−200
pull
Entries 85
Mean 25.24
Std Dev 58.88
2
1
0
−1
−2

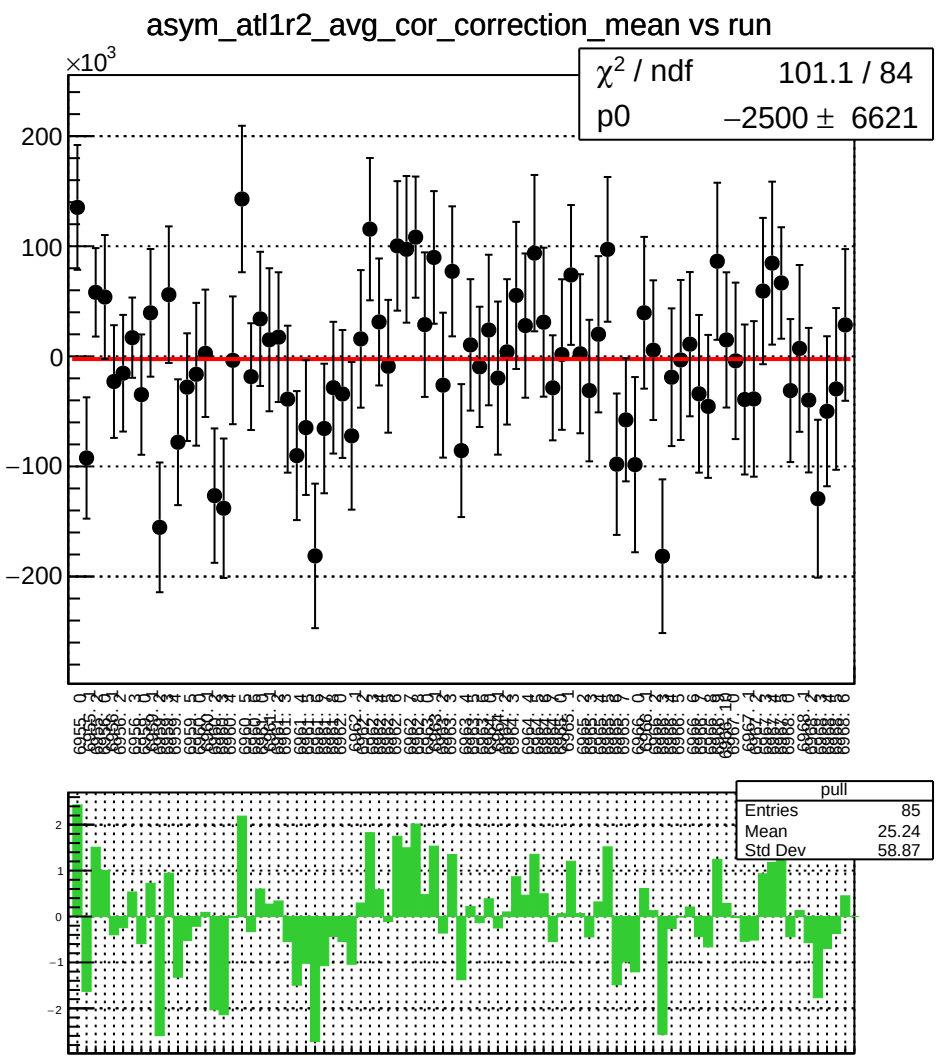

pull1D
Entries 85
Mean −0.01338
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

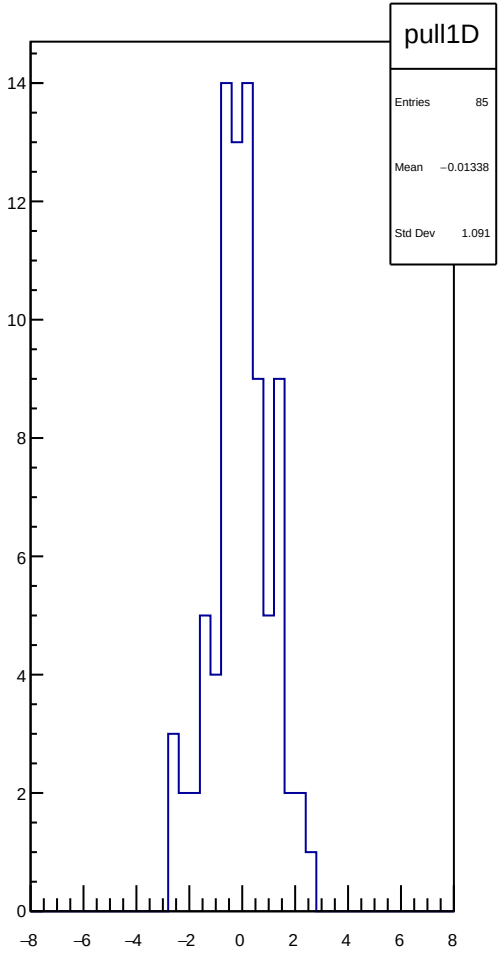

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1.483e+04 / 84
p0 5974 ± 4.682
7500
7000
6500
6000
5500
5000


cor_asym_atl1r2_avg_mean vs run
χ² / ndf 90.63 / 84
p0 −821.9 ± 1877
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −390.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 85
Mean 0.01201
Std Dev 1.033
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_avg_rms vs run
$\chi^2$ / ndf 86.05 / 84
p0 1701 ± 1.327
1750
1740
1730
1720
1710
1700
1690
1680
1670
1660


asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 101.1 / 84
p0 −2500 ± 6621
200
100
0
−100
−200
pull
Entries 85
Mean 25.24
Std Dev 58.87
2
1
0
−1
−2


pull1D
Entries 85
Mean −0.01338
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
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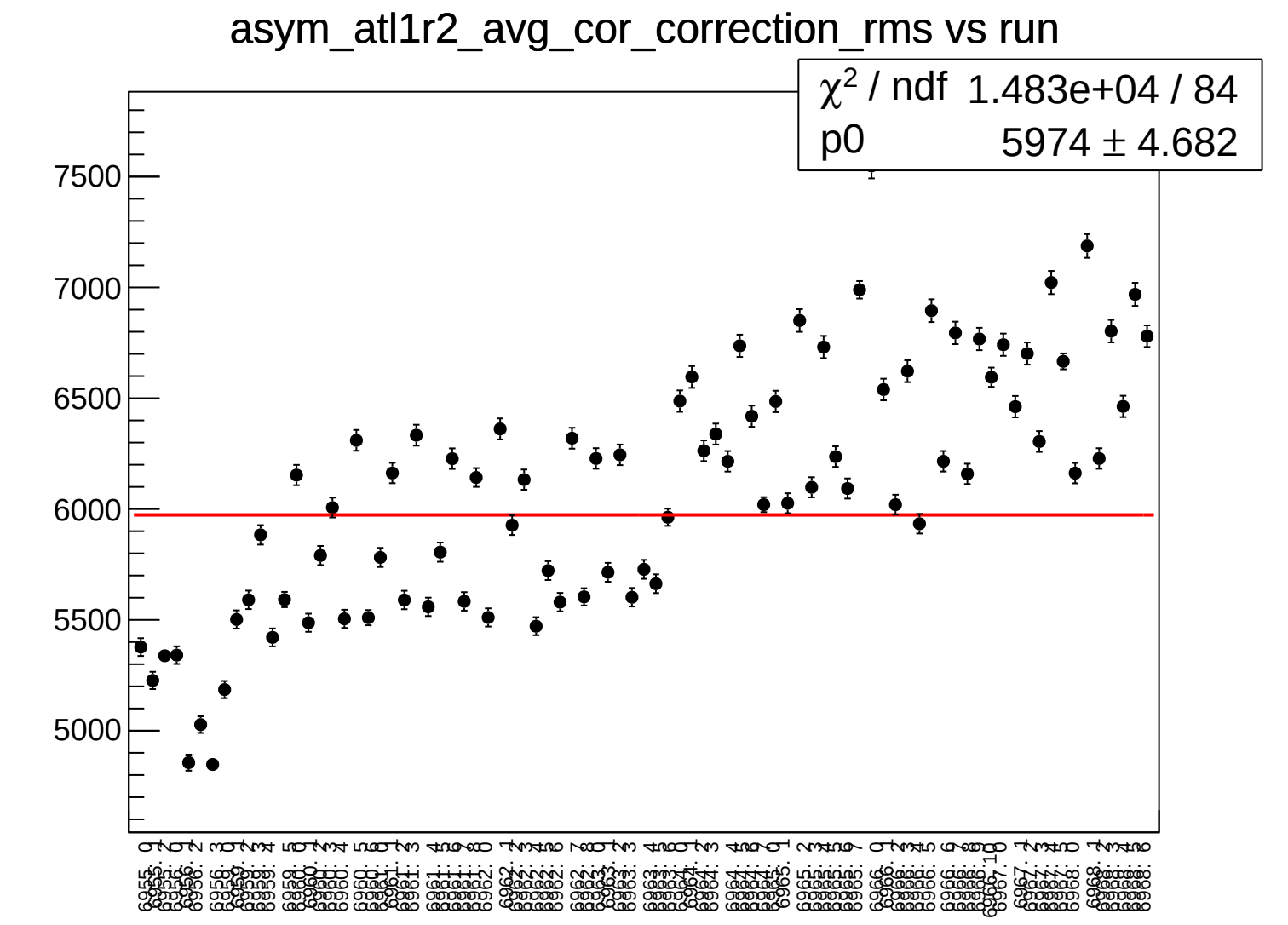
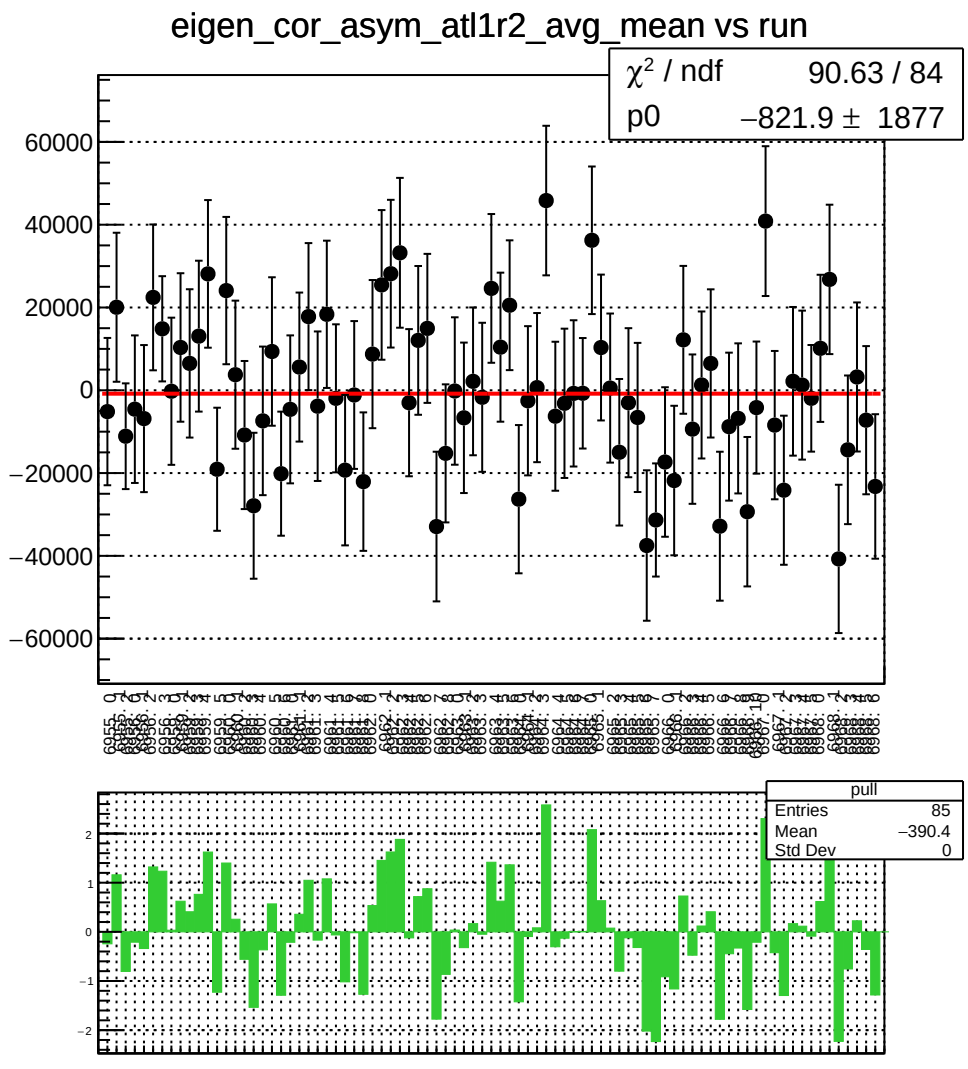
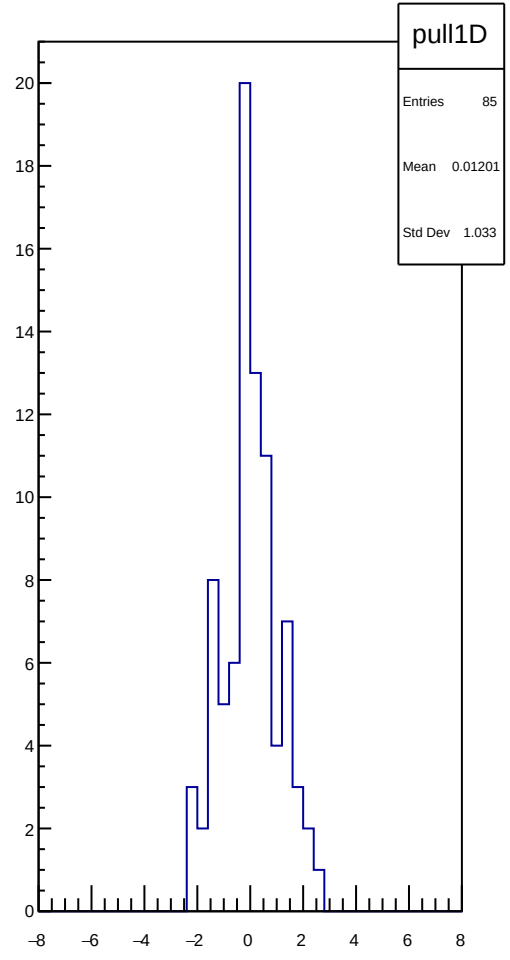
2
4
6
8


asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1.483e+04 / 84
p0 5974 ± 4.682
7500
7000
6500
6000
5500
5000


eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 90.63 / 84
p0 −821.9 ± 1877
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −390.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 85
Mean 0.01201
Std Dev 1.033
20
18
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2
4
6
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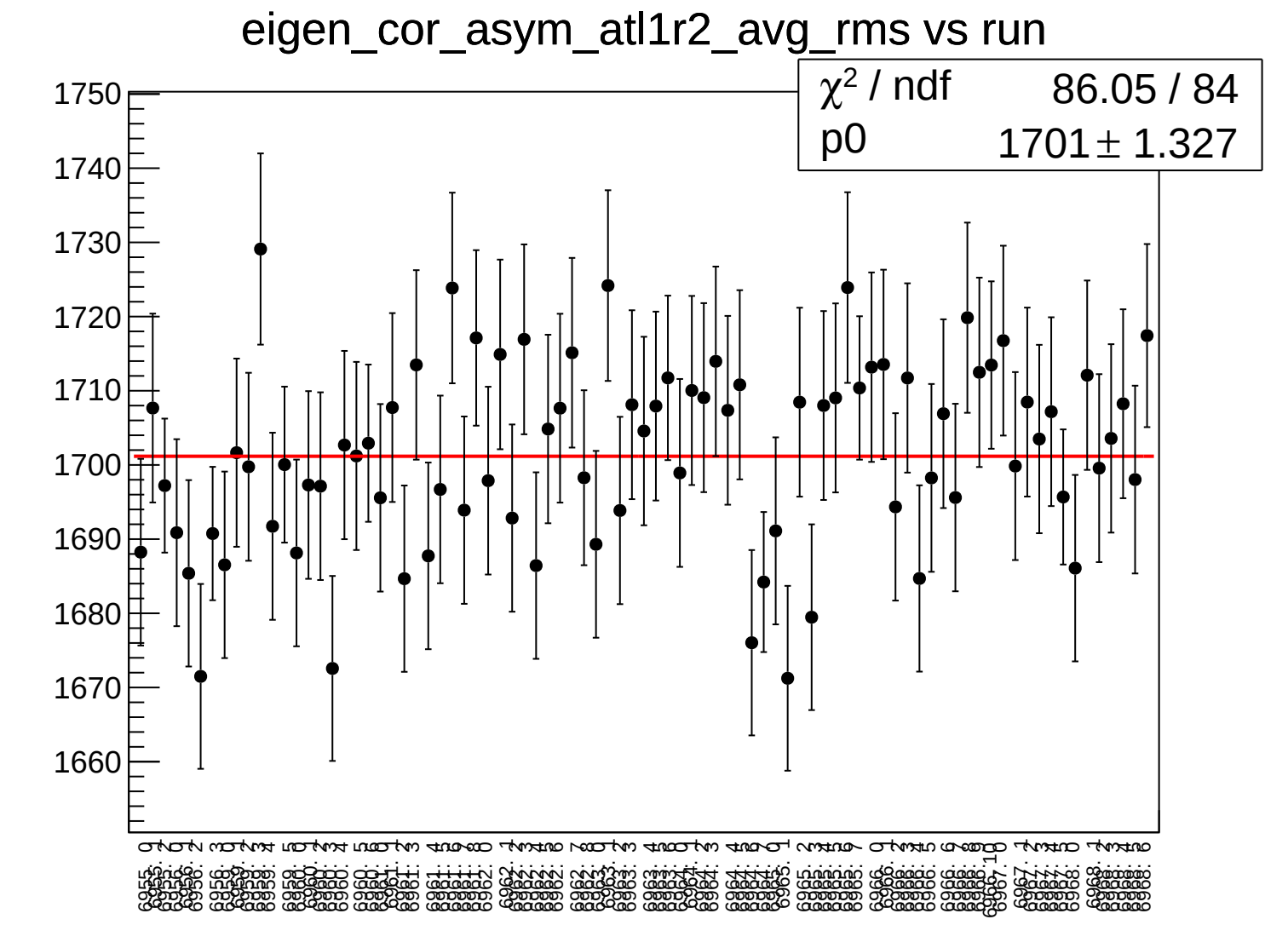
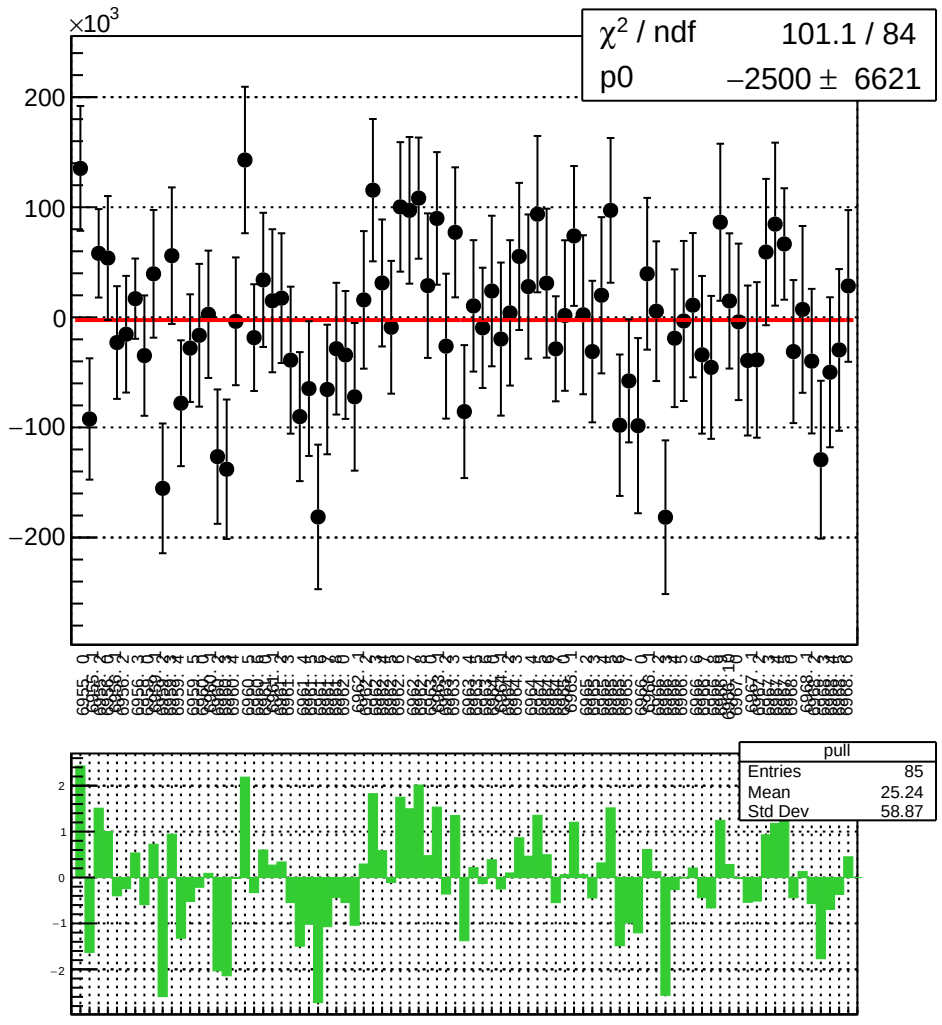
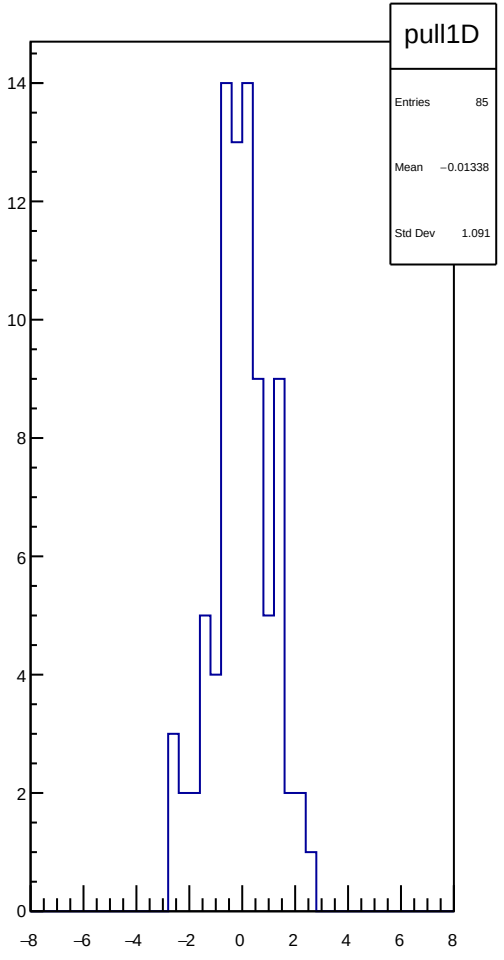

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 86.05 / 84
p0 1701 ± 1.327
1750
1740
1730
1720
1710
1700
1690
1680
1670
1660


asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 101.1 / 84
p0 −2500 ± 6621
200
100
0
−100
−200
pull
Entries 85
Mean 25.24
Std Dev 58.87
2
1
0
−1
−2


pull1D
Entries 85
Mean −0.01338
Std Dev 1.091
14
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10
8
6
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2
0
−8
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2
4
6
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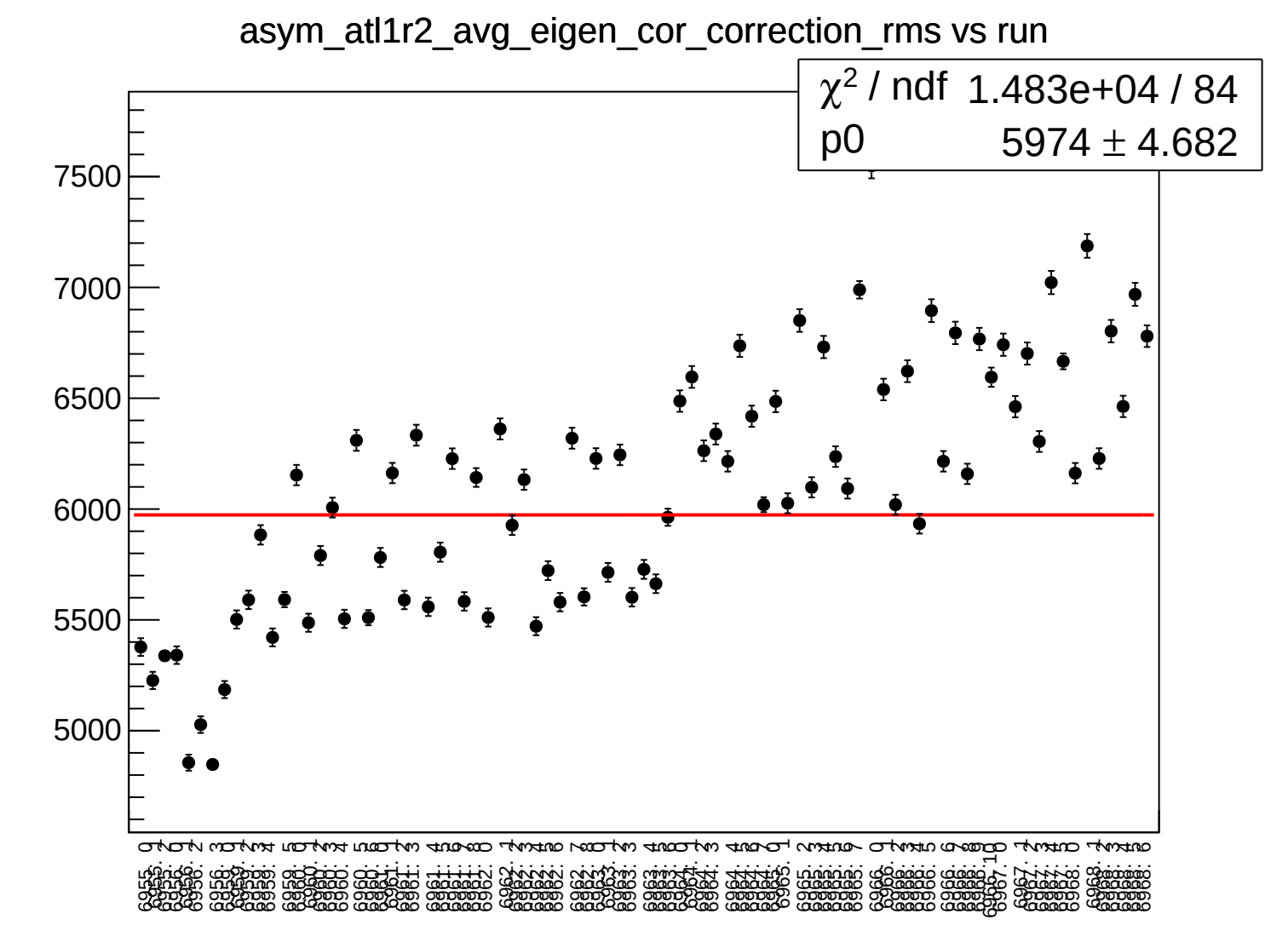
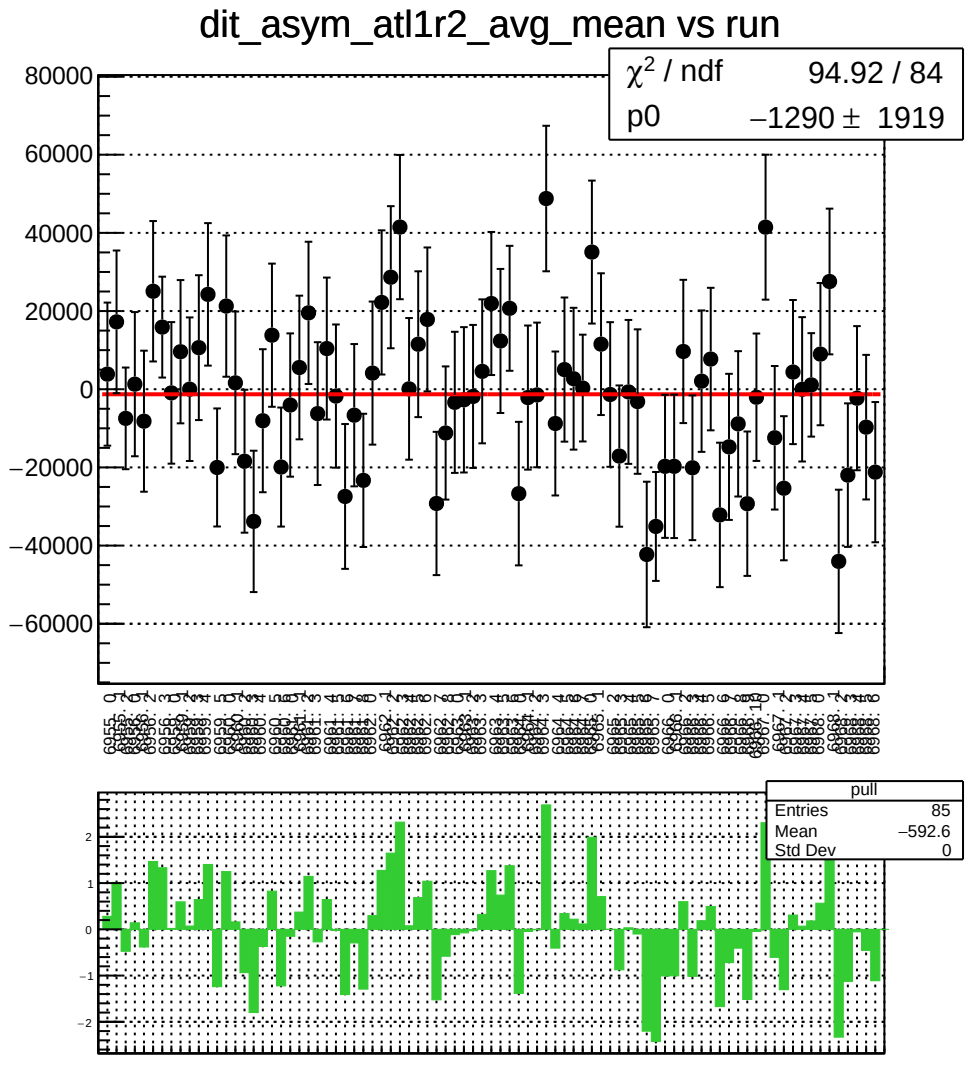
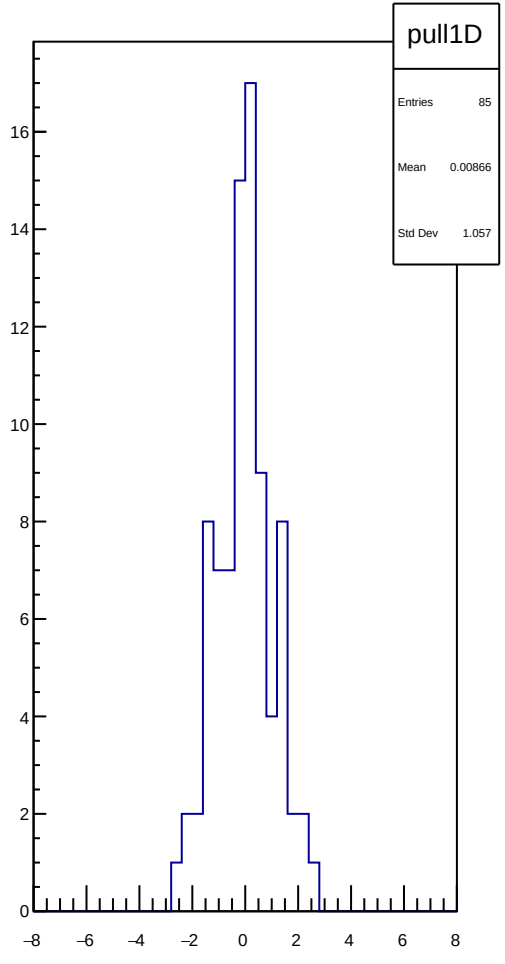
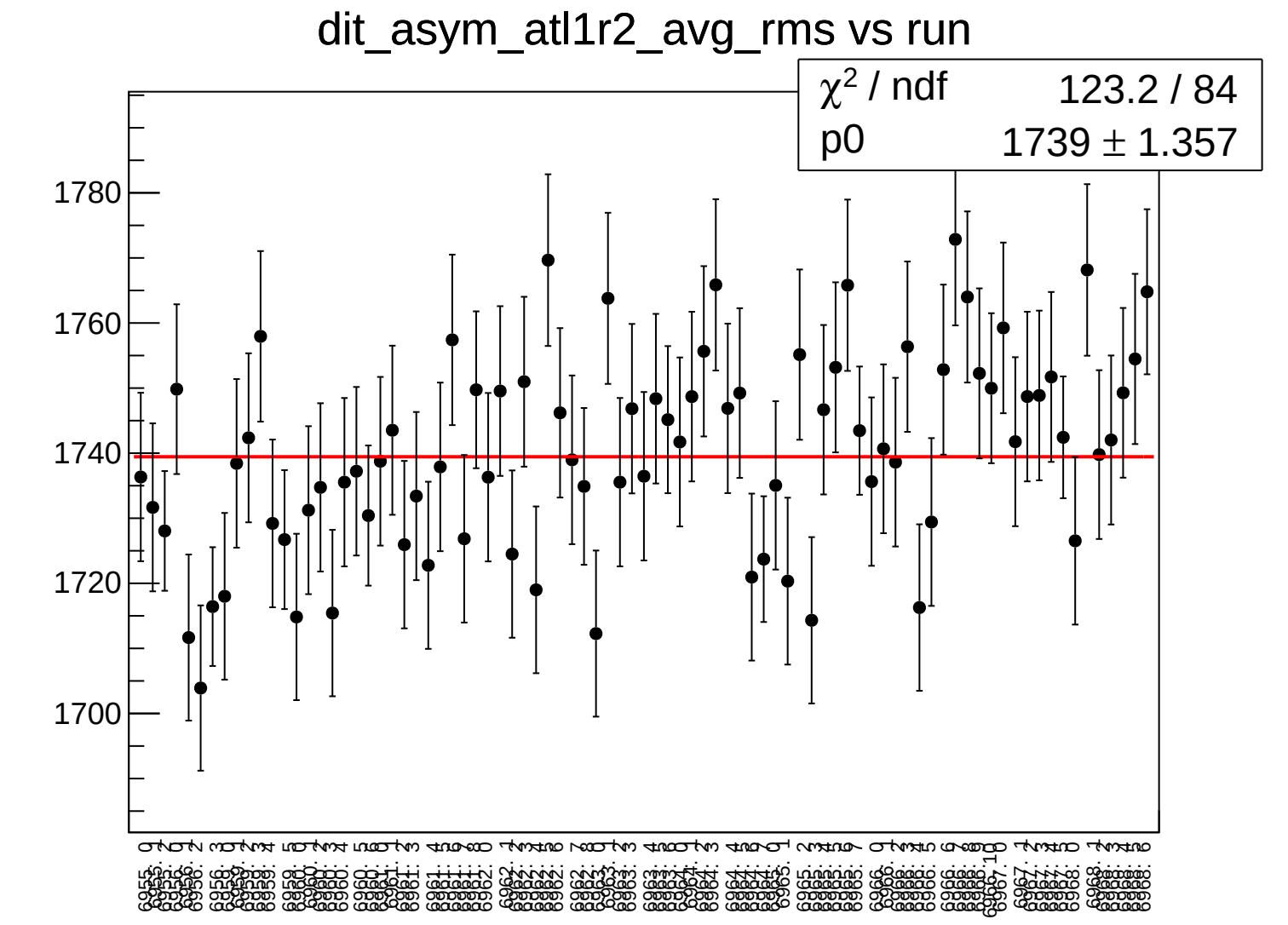
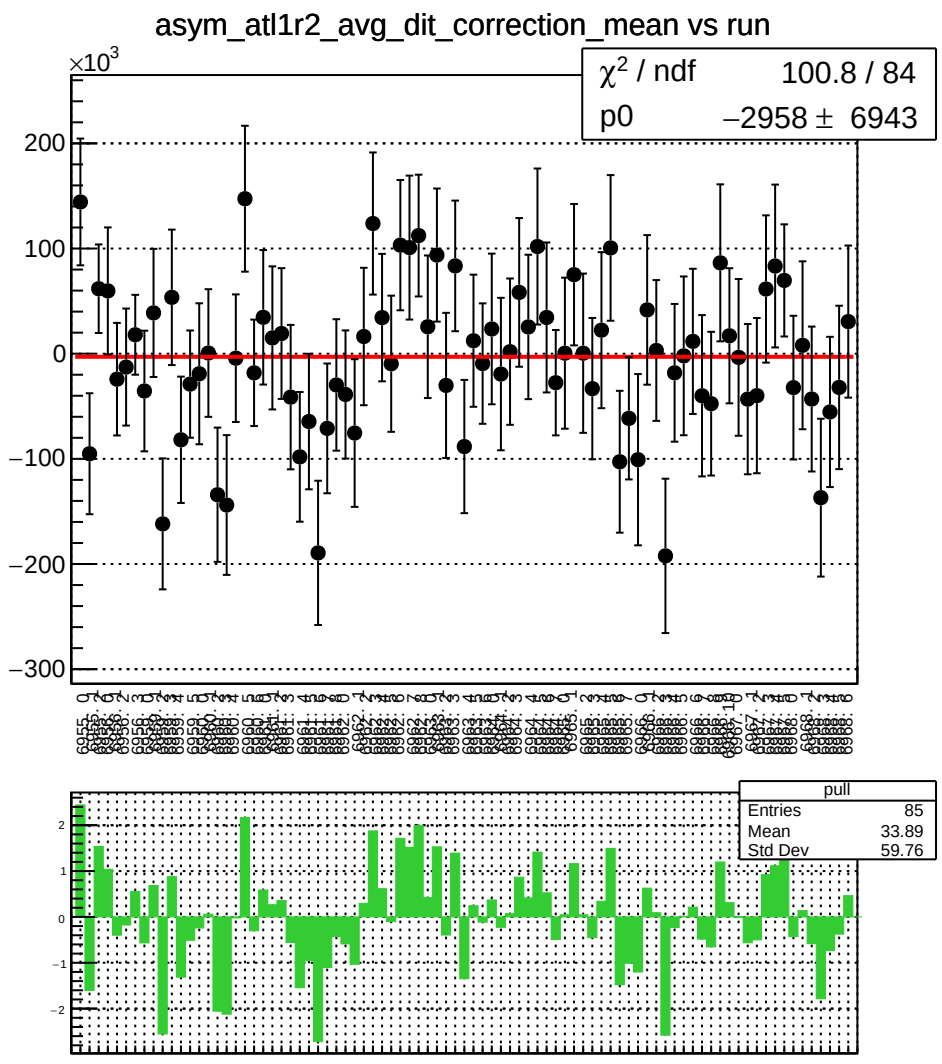
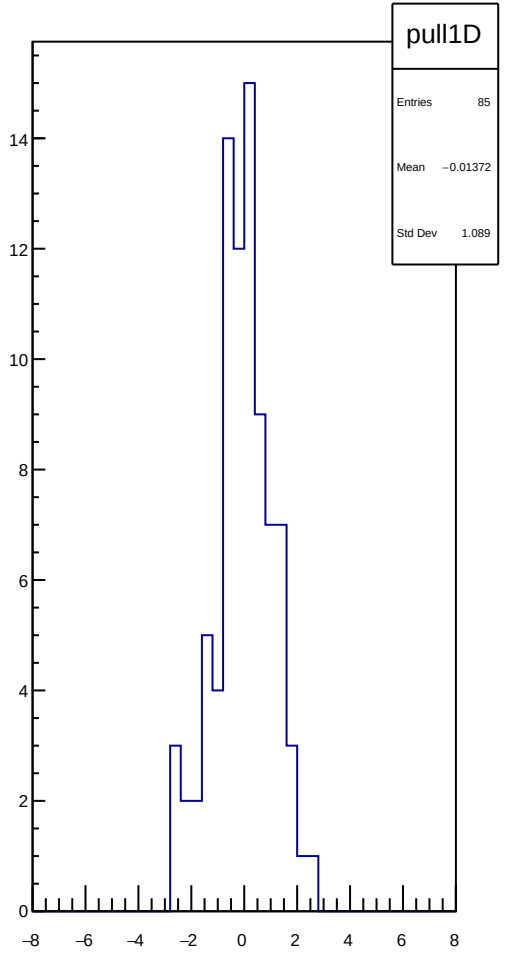

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.483e+04 / 84
p0 5974 ± 4.682
7500
7000
6500
6000
5500
5000


dit_asym_atl1r2_avg_mean vs run
χ² / ndf 94.92 / 84
p0 −1290 ± 1919
pull
Entries 85
Mean −592.6
Std Dev 0


pull1D
Entries 85
Mean 0.00866
Std Dev 1.057


dit_asym_atl1r2_avg_rms vs run
$\chi^2$ / ndf 123.2 / 84
p0 1739 ± 1.357
1780
1760
1740
1720
1700


asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 100.8 / 84
p0 −2958 ± 6943
200
100
0
−100
−200
−300
pull
Entries 85
Mean 33.89
Std Dev 59.76
2
1
0
−1
−2


pull1D
Entries 85
Mean −0.01372
Std Dev 1.089
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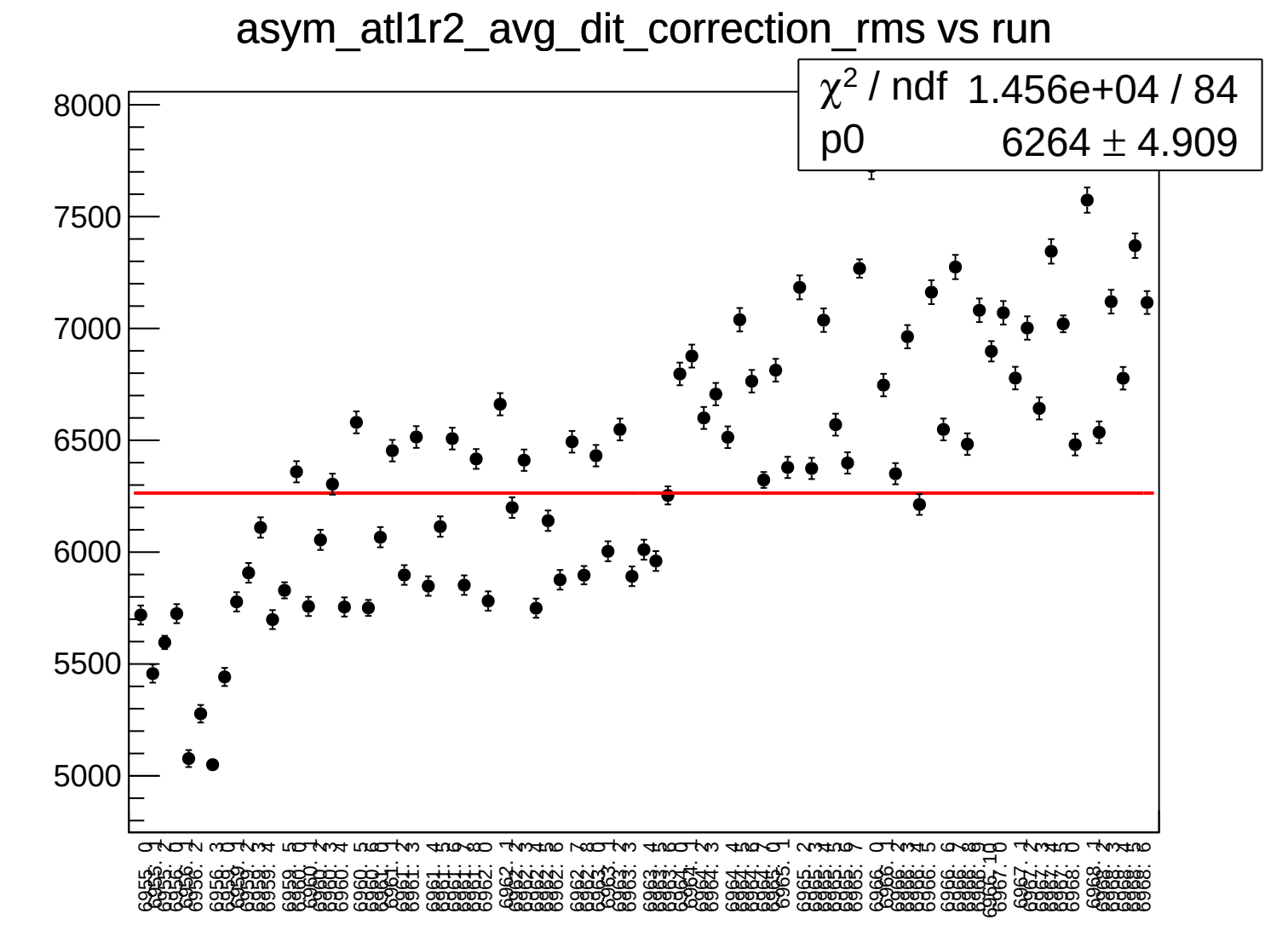
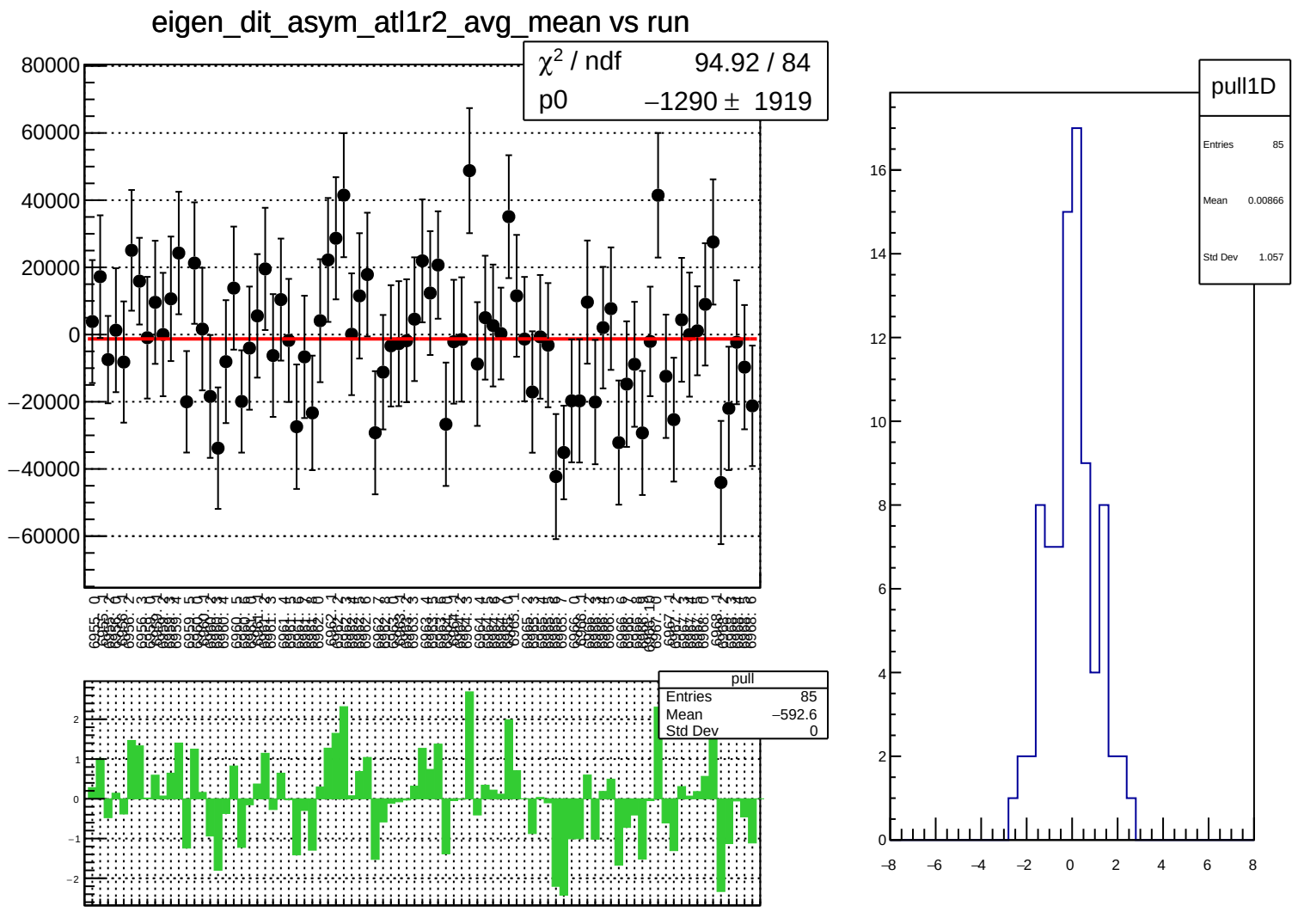
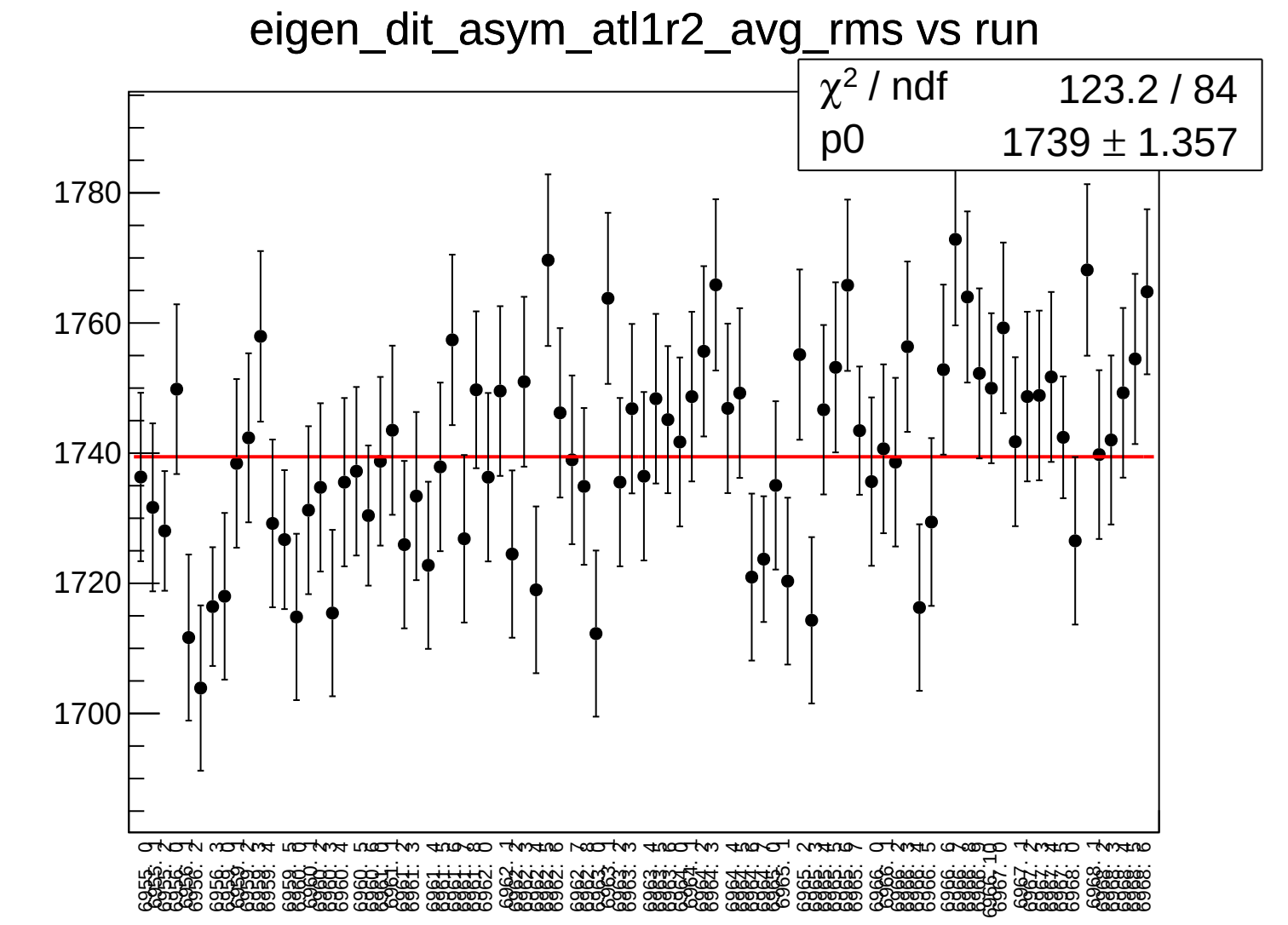
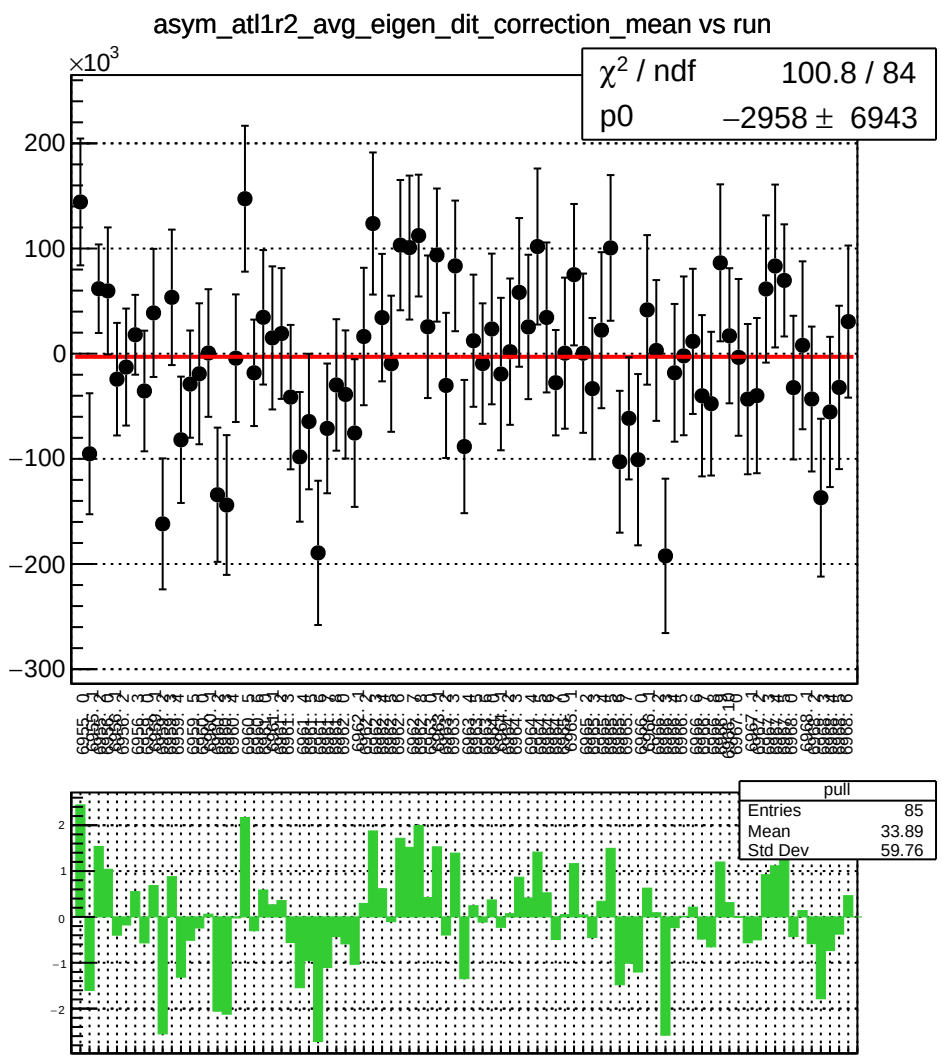
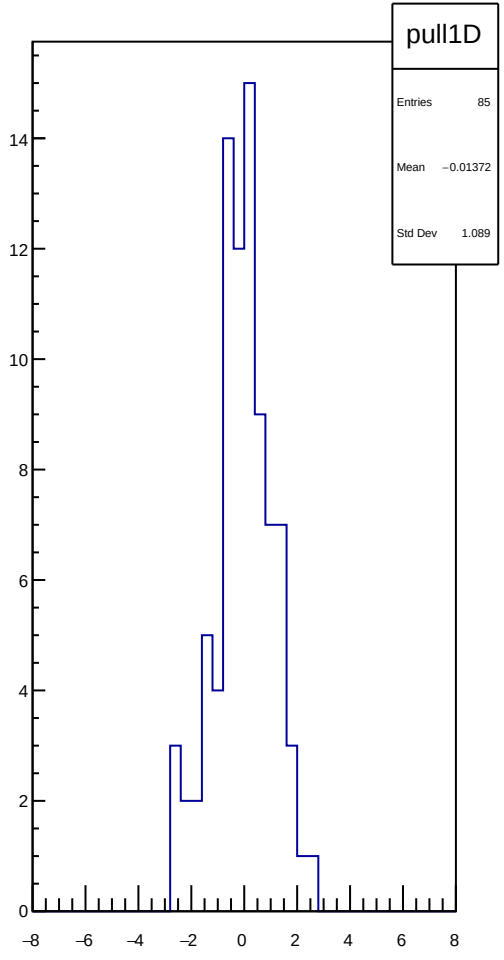
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

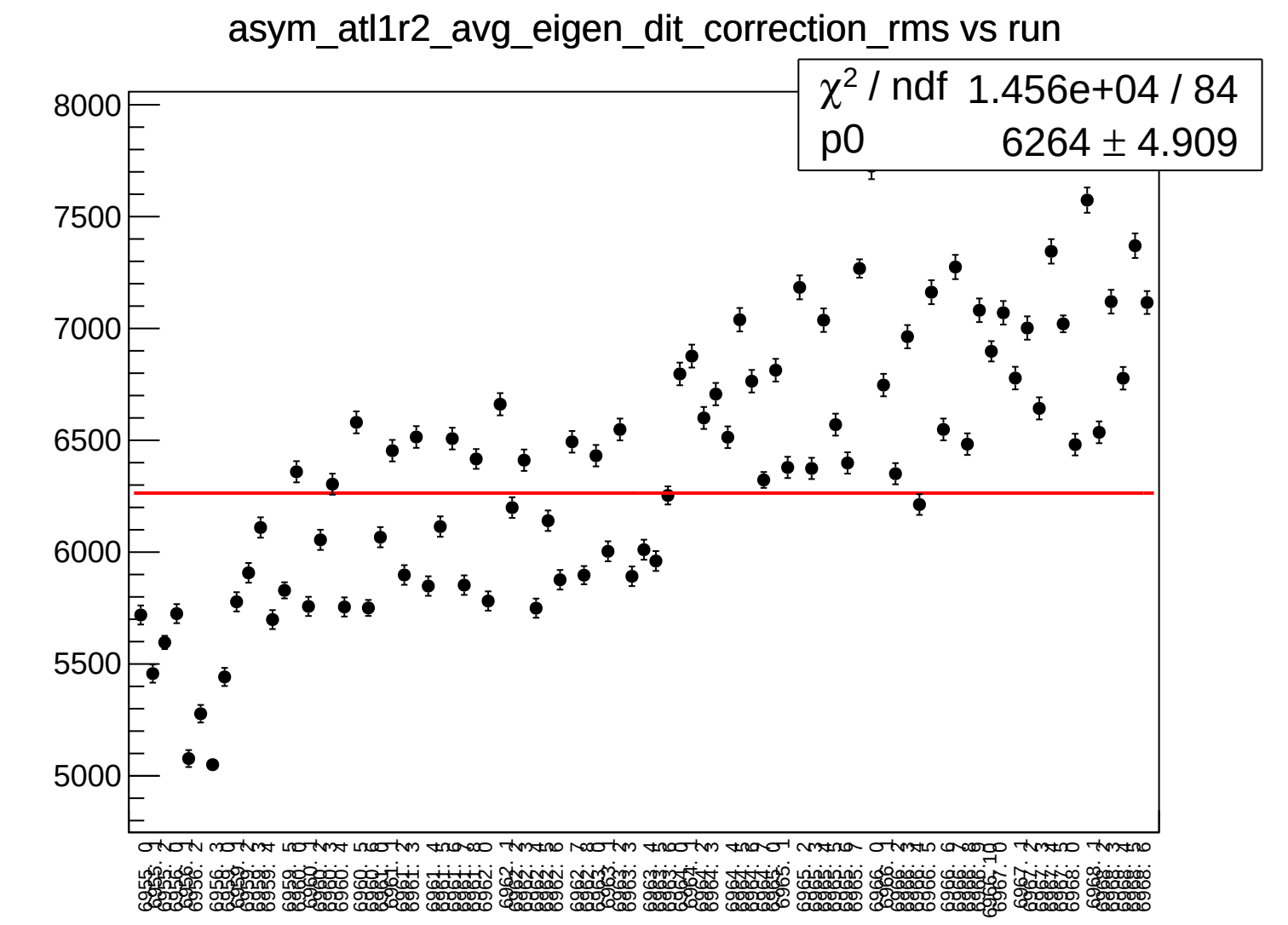

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 1.456e+04 / 84
p0 6264 ± 4.909
8000
7500
7000
6500
6000
5500
5000

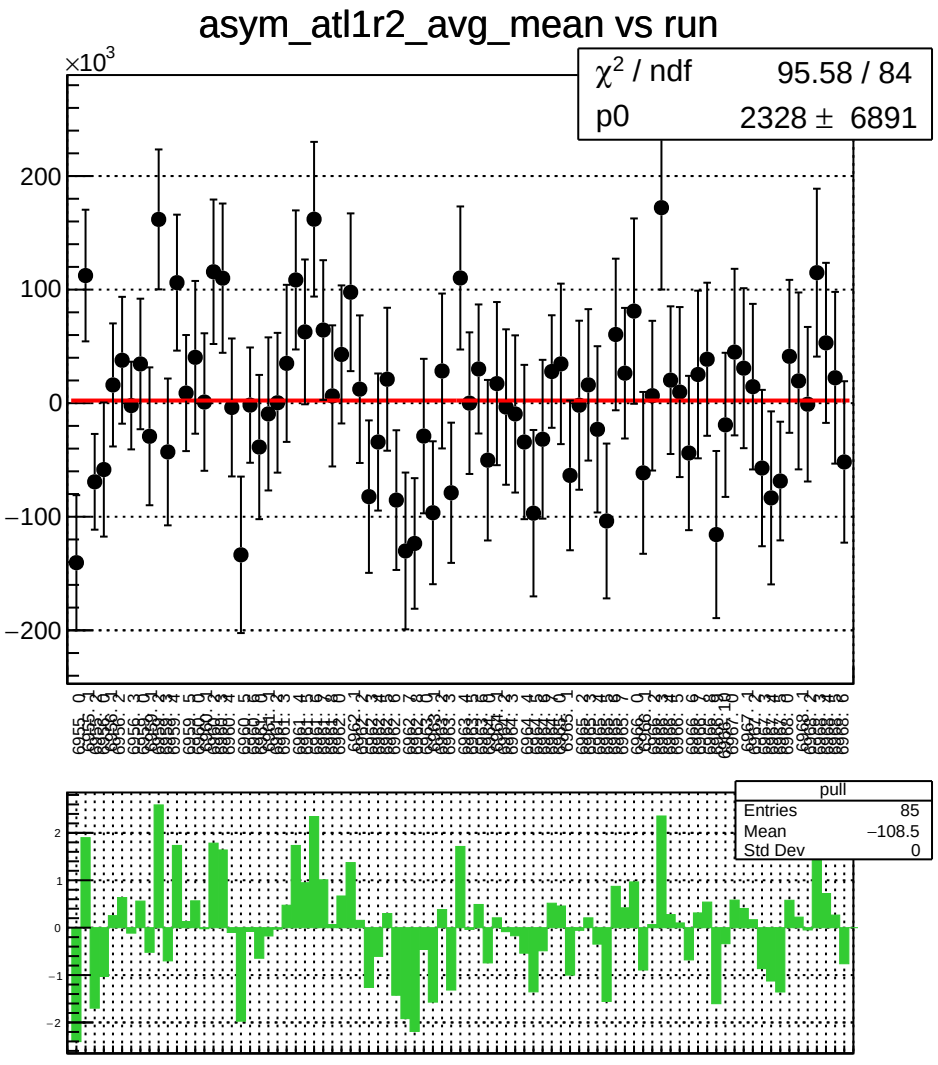

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 94.92 / 84
p0 −1290 ± 1919
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −592.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.00866
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

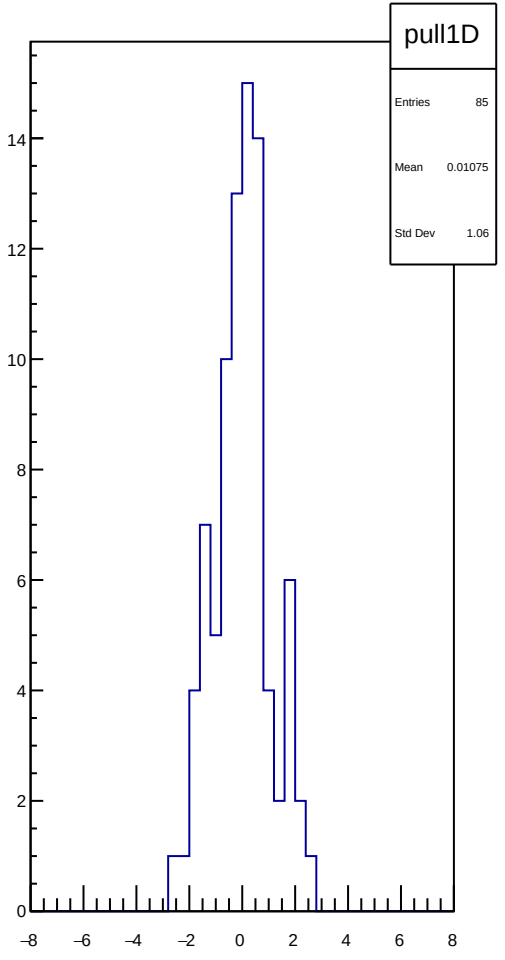

eigen_dit_asym_atl1r2_avg_rms vs run
$\chi^2$ / ndf 123.2 / 84
p0 1739 ± 1.357
1780
1760
1740
1720
1700

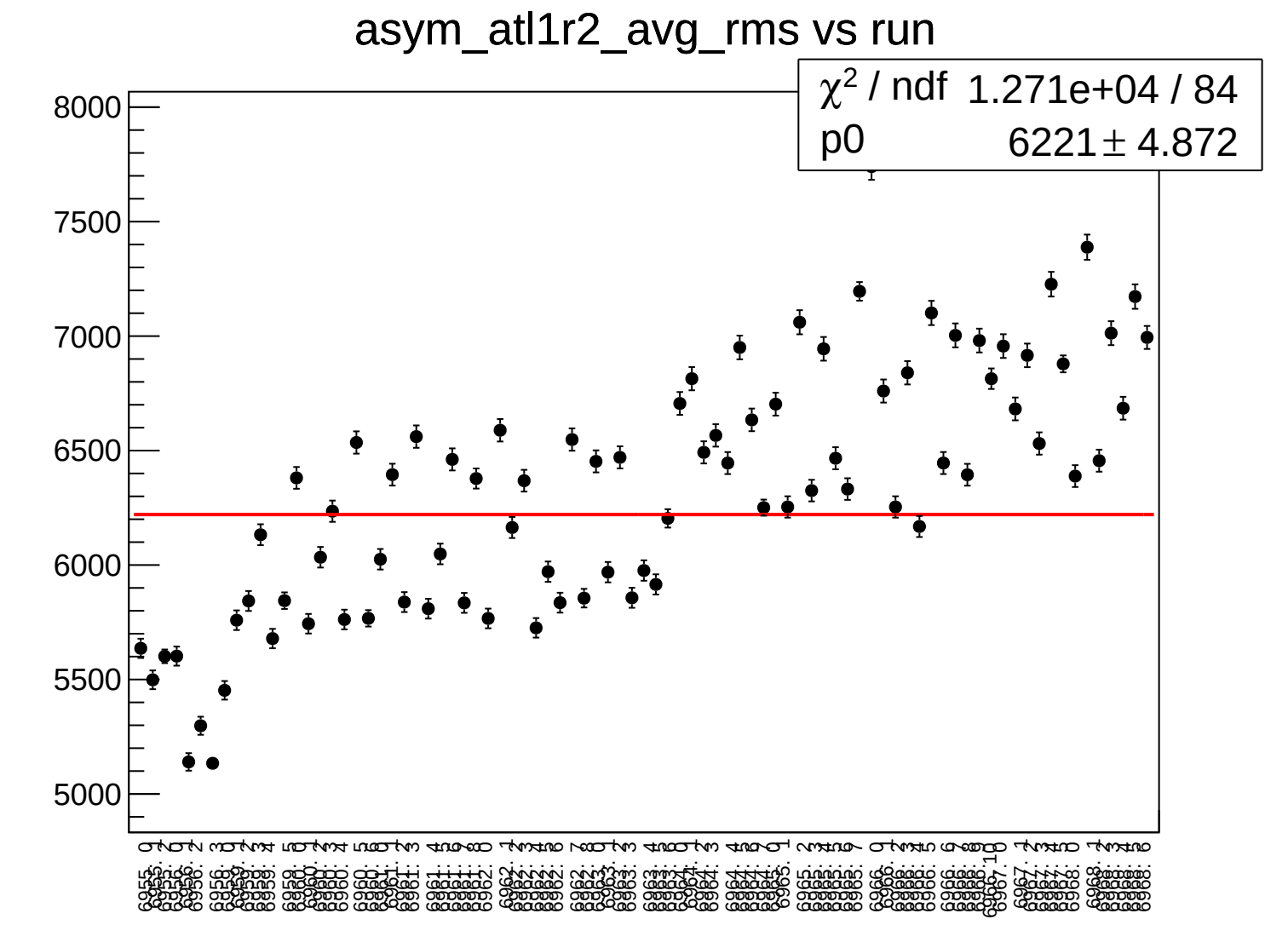

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.8 / 84
p0 −2958 ± 6943
200
100
0
−100
−200
−300
pull
Entries 85
Mean 33.89
Std Dev 59.76
2
1
0
−1
−2

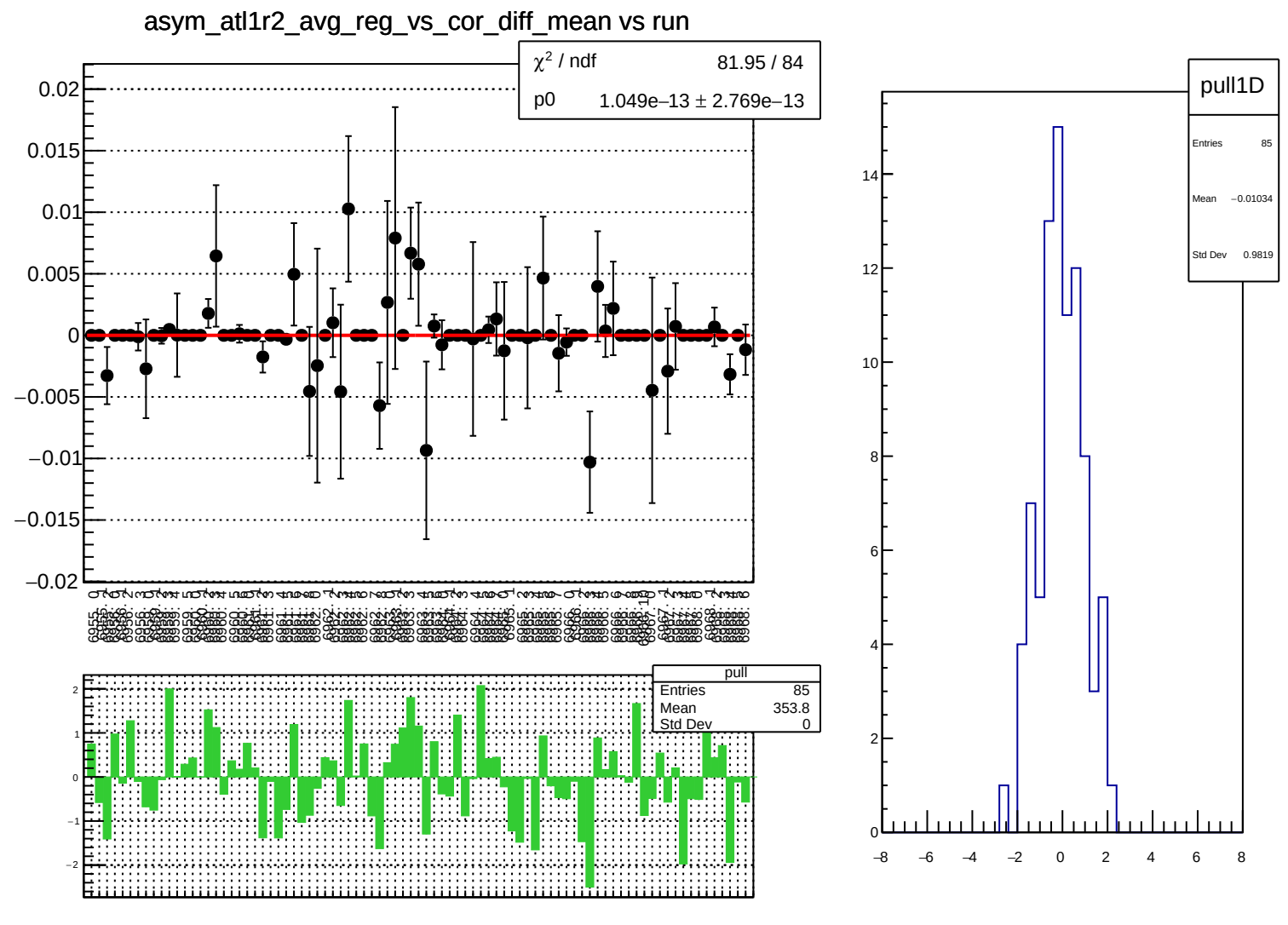

pull1D
Entries 85
Mean −0.01372
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

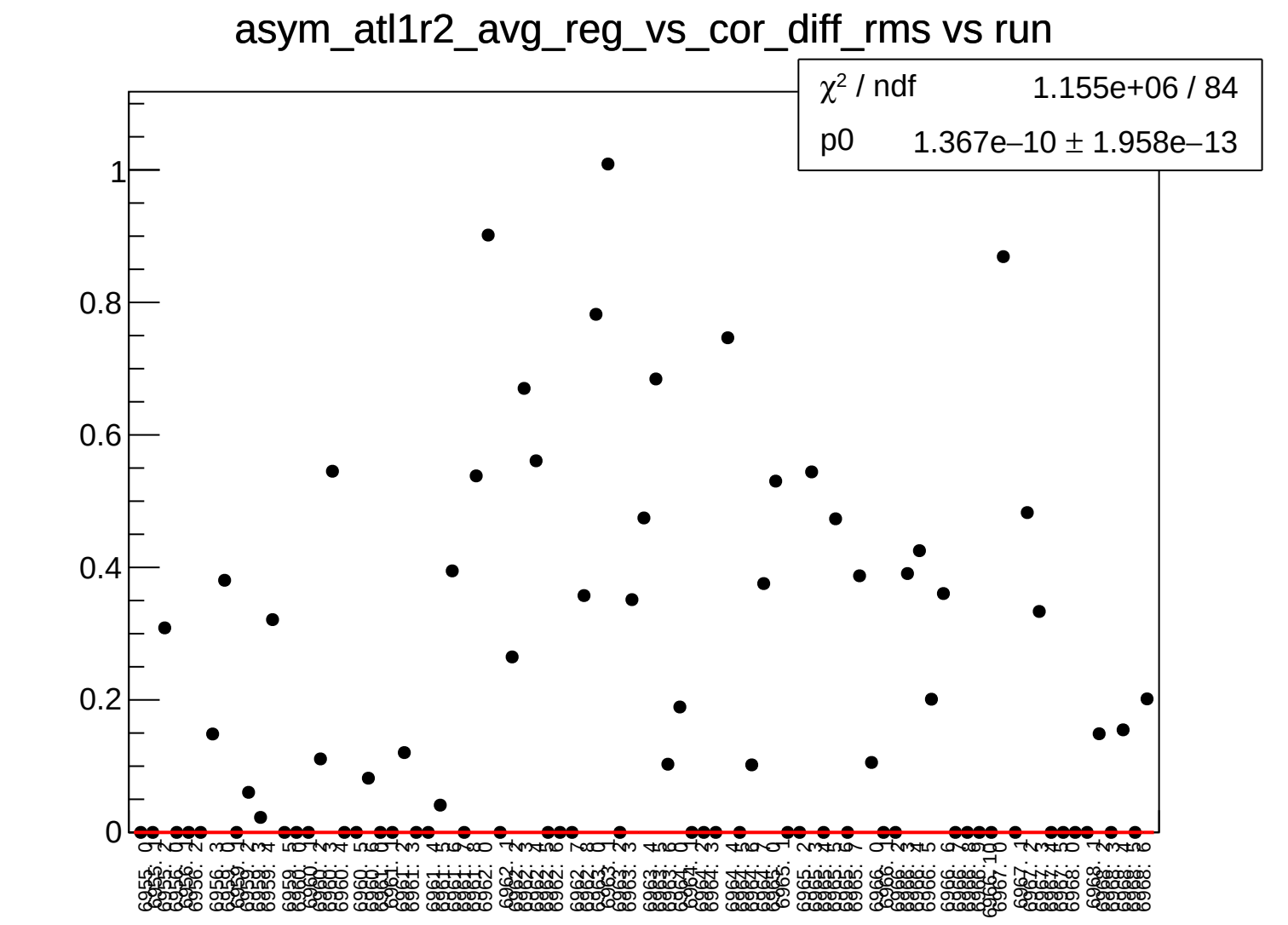

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.456e+04 / 84
p0 6264 ± 4.909
8000
7500
7000
6500
6000
5500
5000

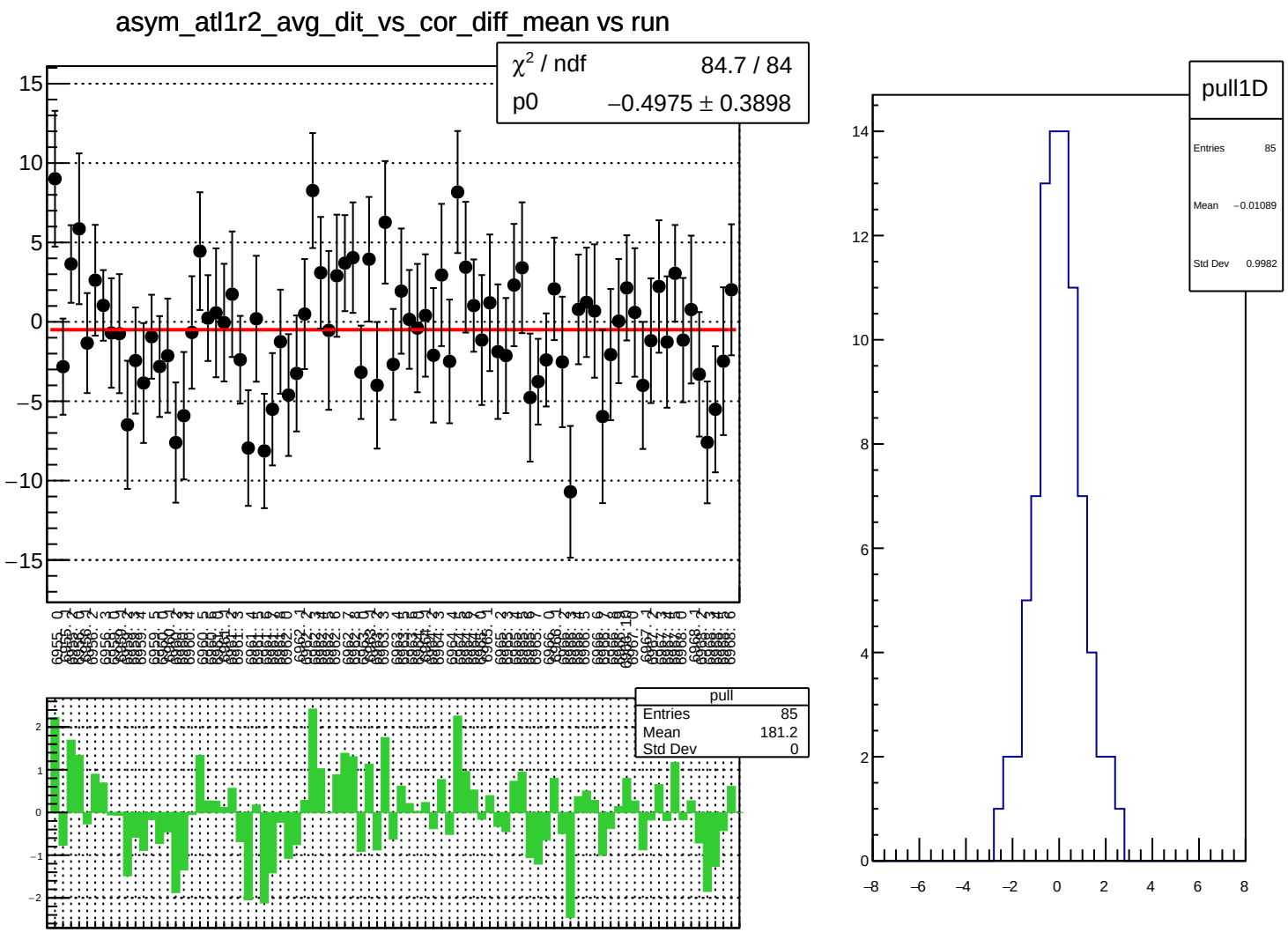

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 95.58 / 84
p0 2328 ± 6891
200
100
0
−100
−200
pull
Entries 85
Mean −108.5
Std Dev 0
2
1
0
−1
−2

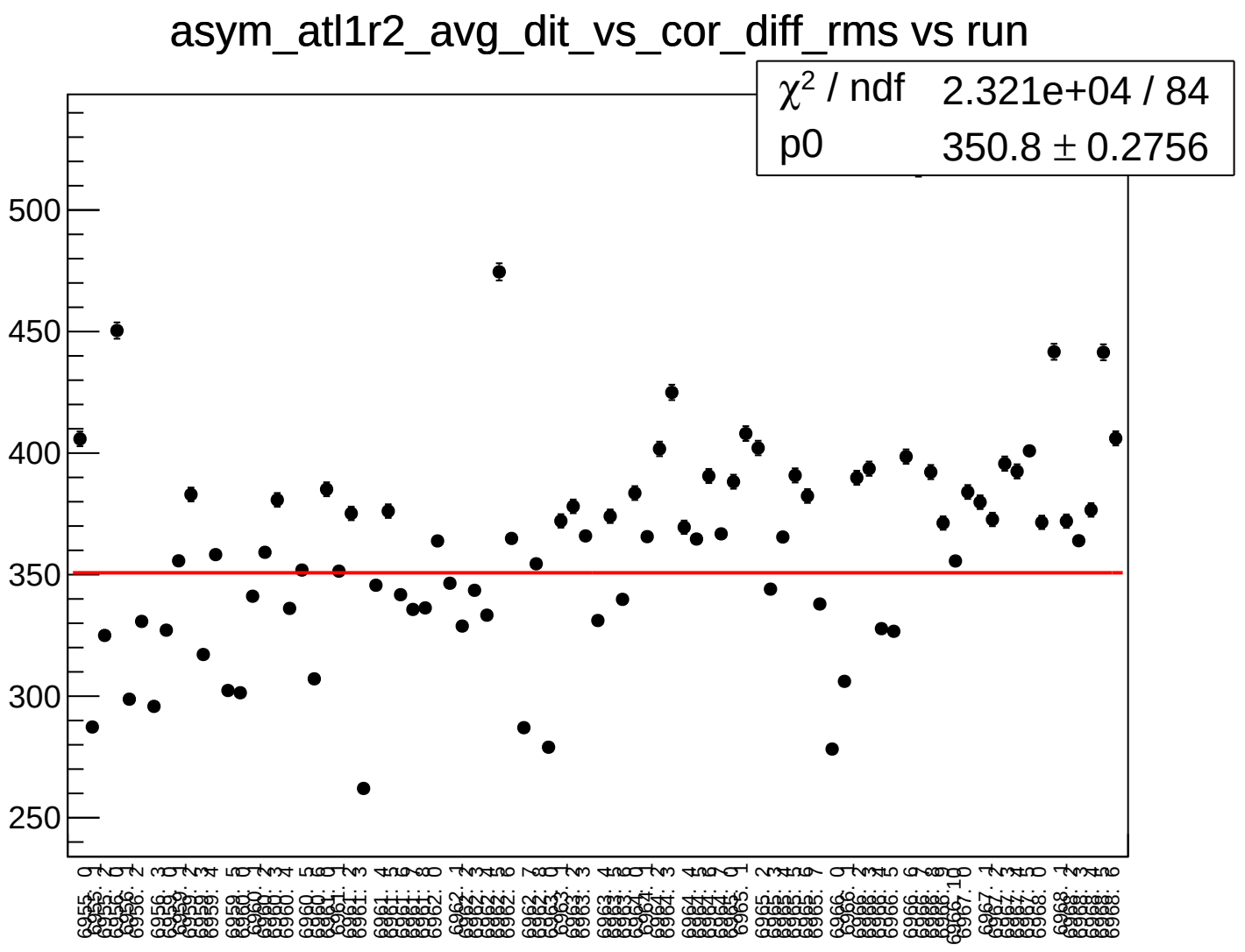

pull1D
Entries 85
Mean 0.01075
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

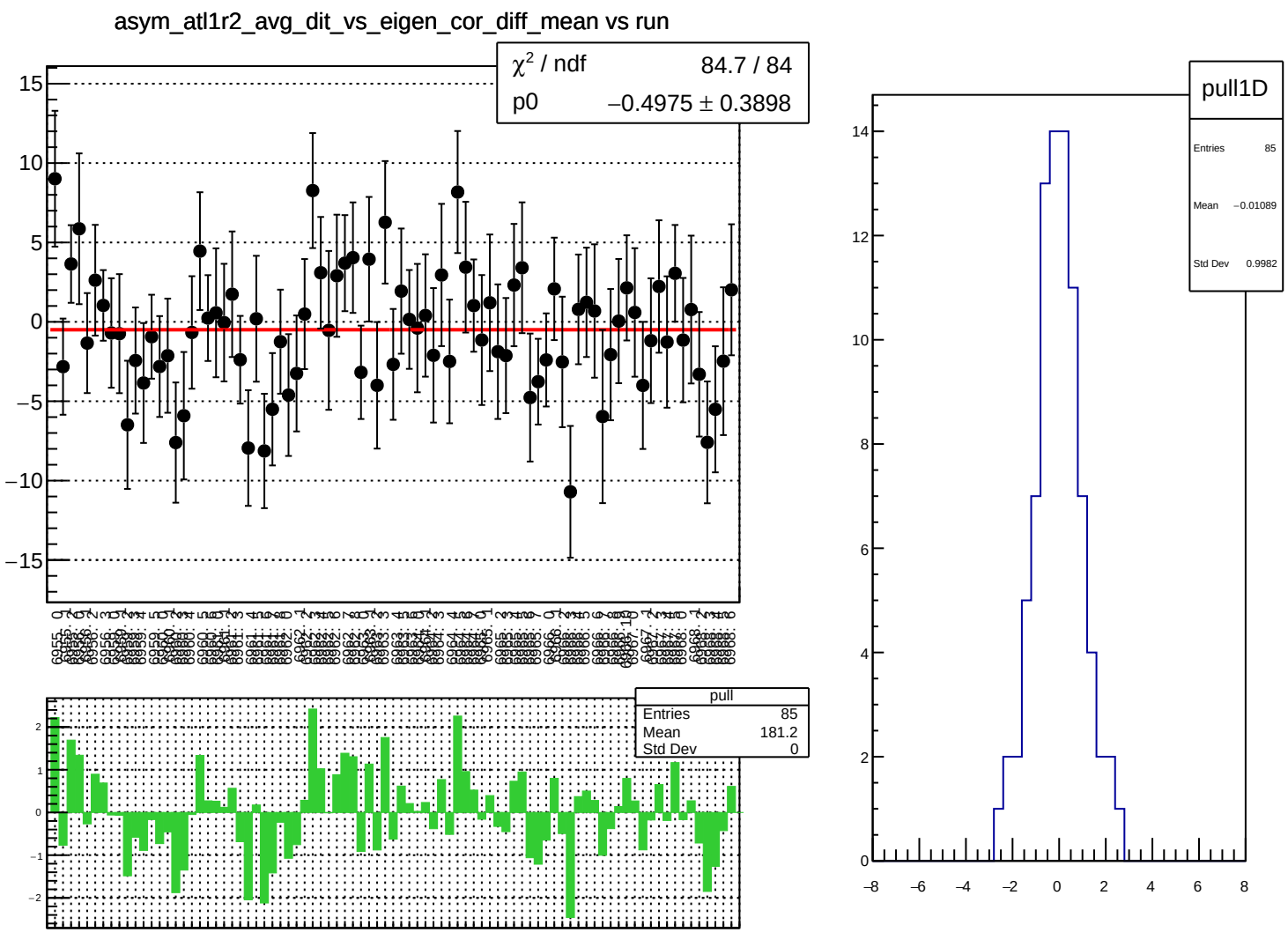

asym_atl1r2_avg_rms vs run
χ² / ndf 1.271e+04 / 84
p0 6221 ± 4.872
8000
7500
7000
6500
6000
5500
5000

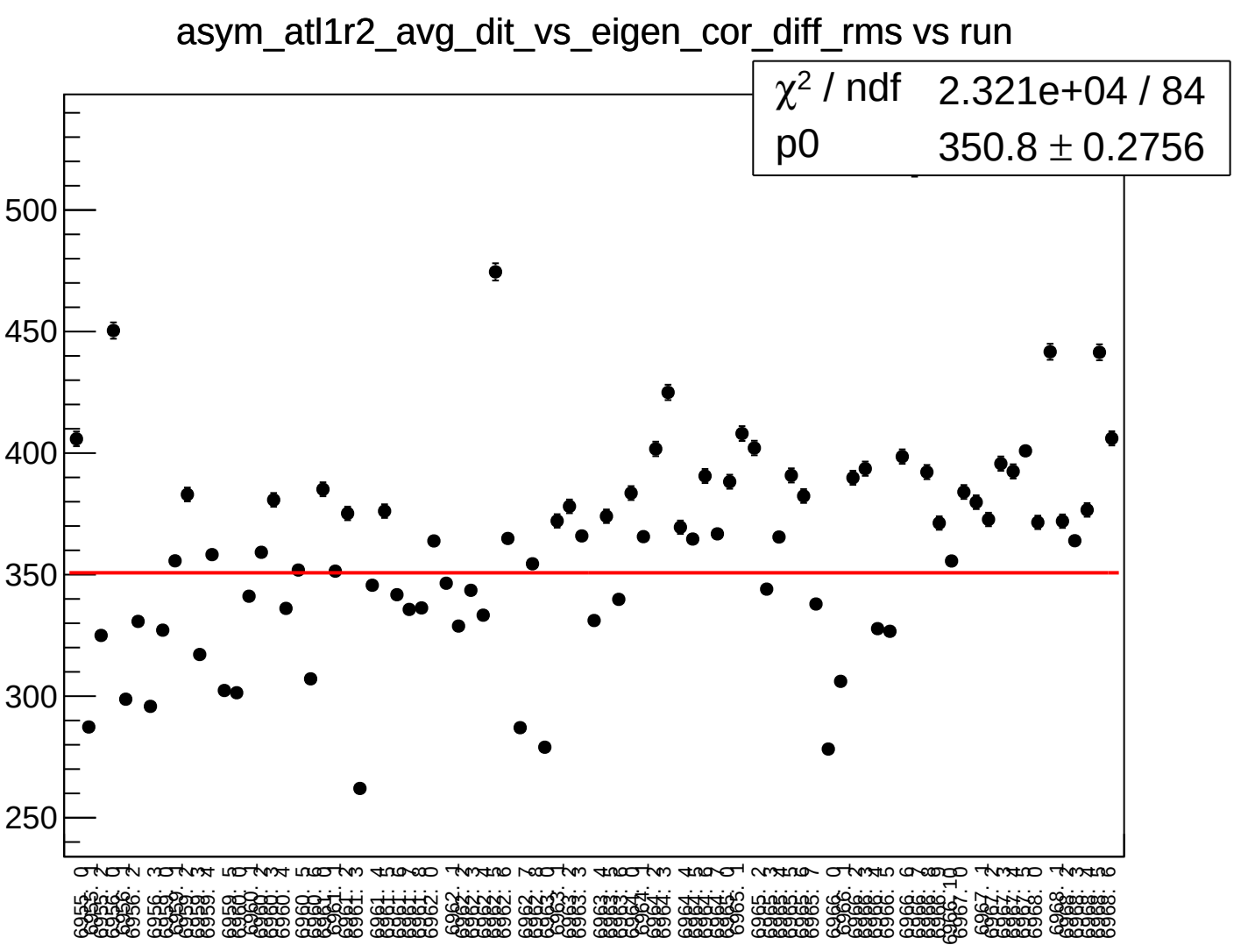

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.95 / 84
p0 1.049e−13 ± 2.769e−13
pull
Entries 85
Mean 353.8
Std Dev 0
pull1D
Entries 85
Mean −0.01034
Std Dev 0.9819

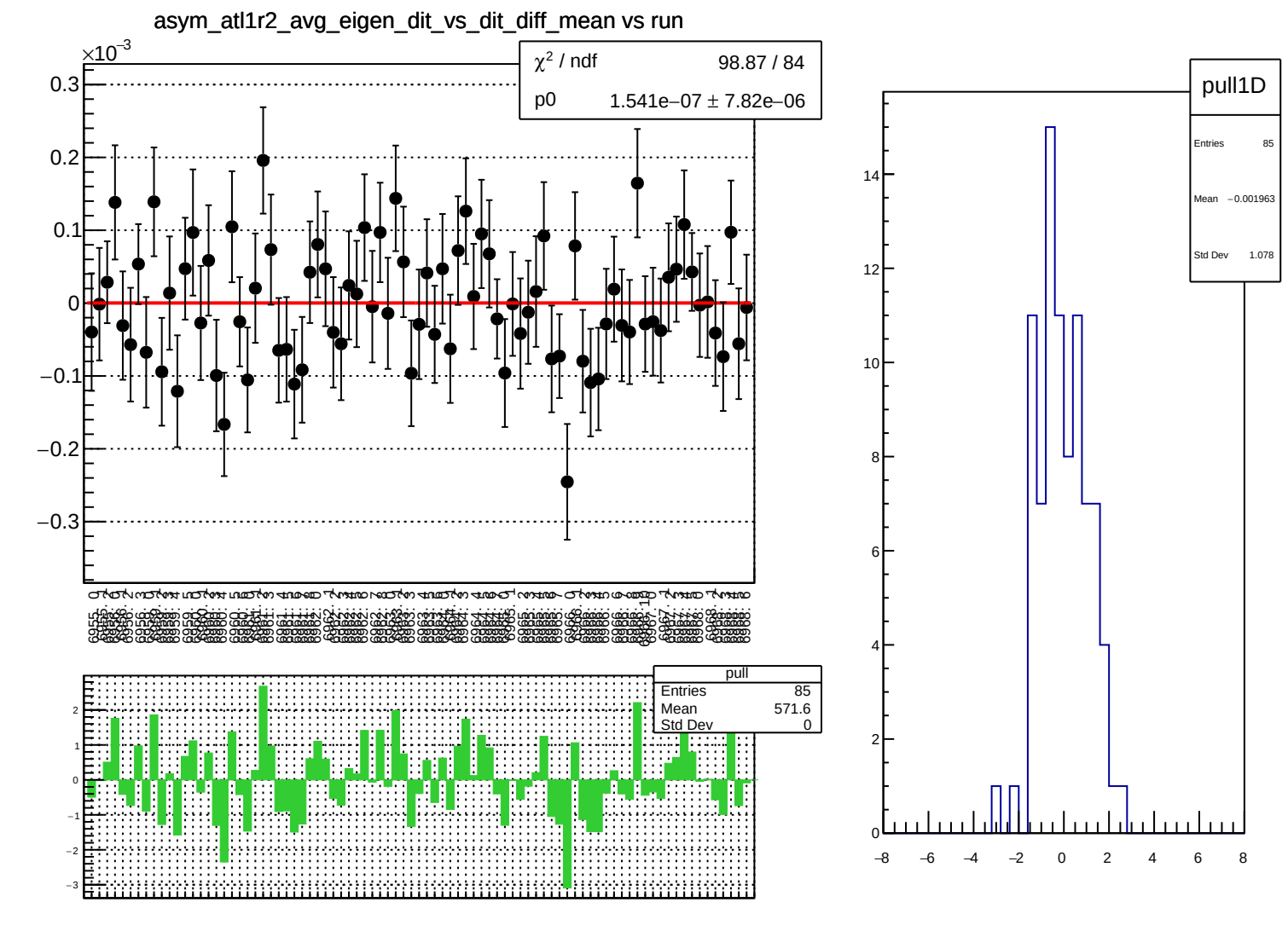

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.155e+06 / 84
p0 1.367e−10 ± 1.958e−13
1
0.8
0.6
0.4
0.2
0

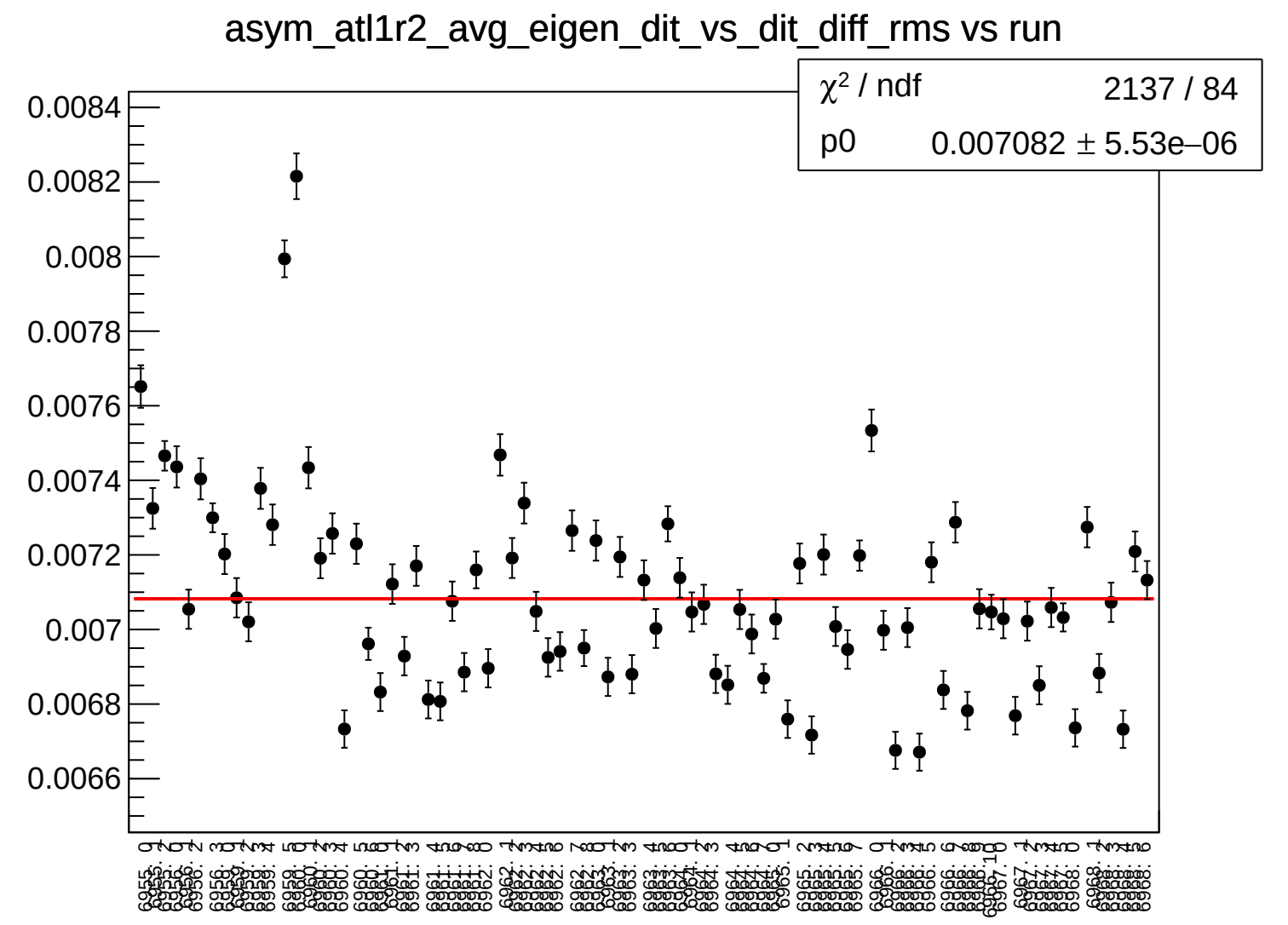

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.7 / 84
p0 −0.4975 ± 0.3898
pull
Entries 85
Mean 181.2
Std Dev 0
pull1D
Entries 85
Mean −0.01089
Std Dev 0.9982

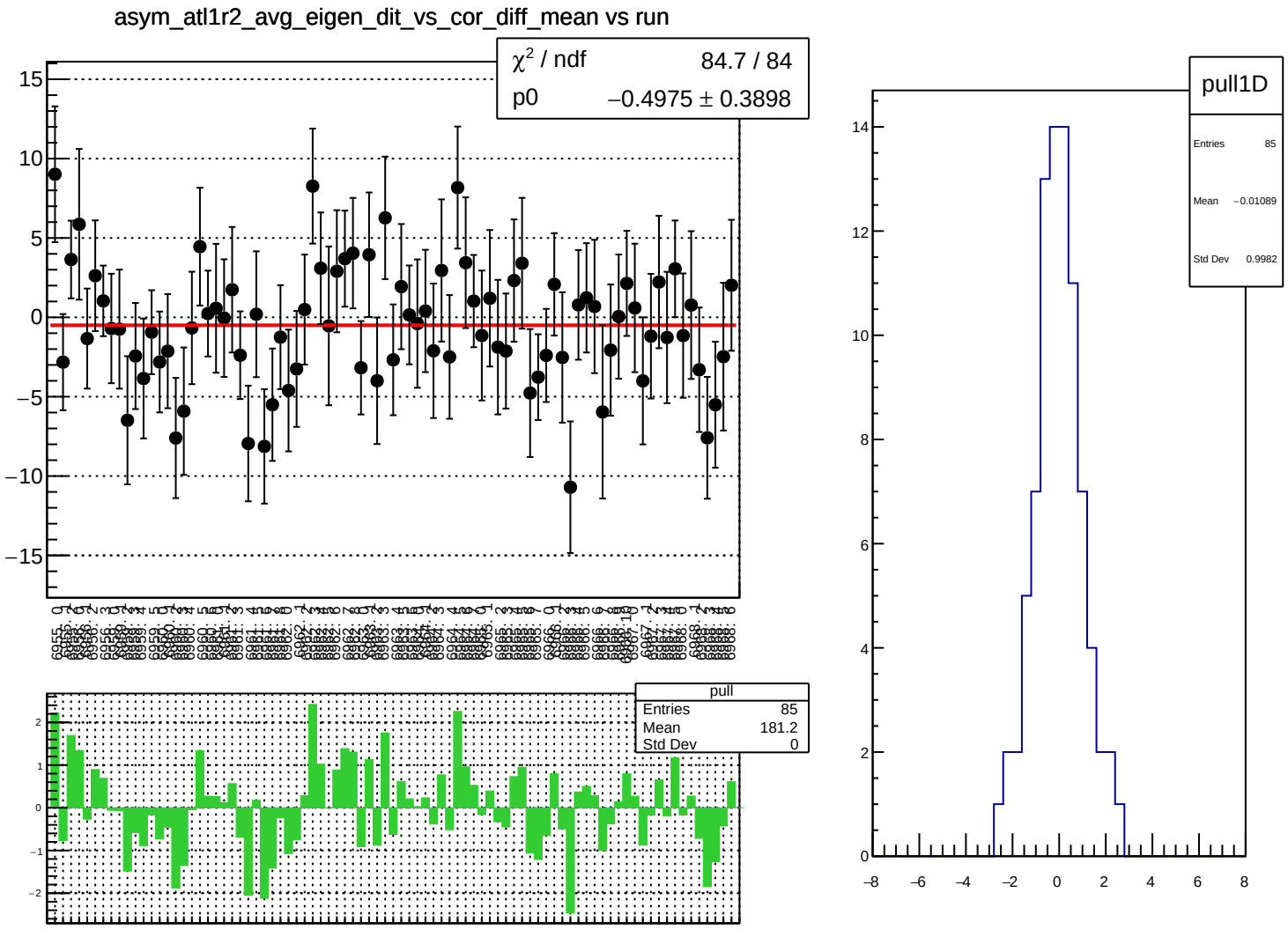

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.321e+04 / 84
p0 350.8 ± 0.2756
500
450
400
350
300
250

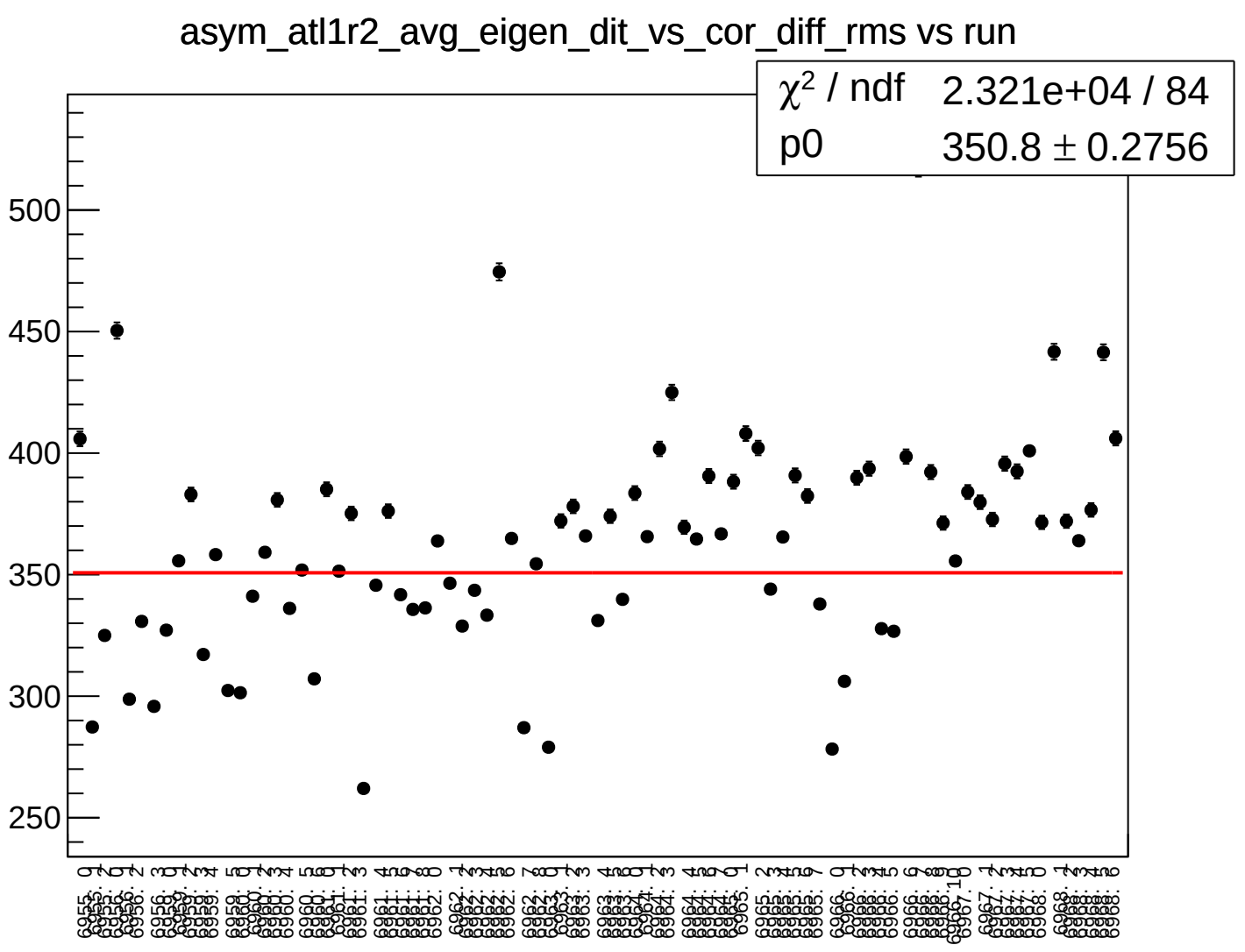

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.7 / 84
p0 −0.4975 ± 0.3898
pull
Entries 85
Mean 181.2
Std Dev 0
pull1D
Entries 85
Mean −0.01089
Std Dev 0.9982

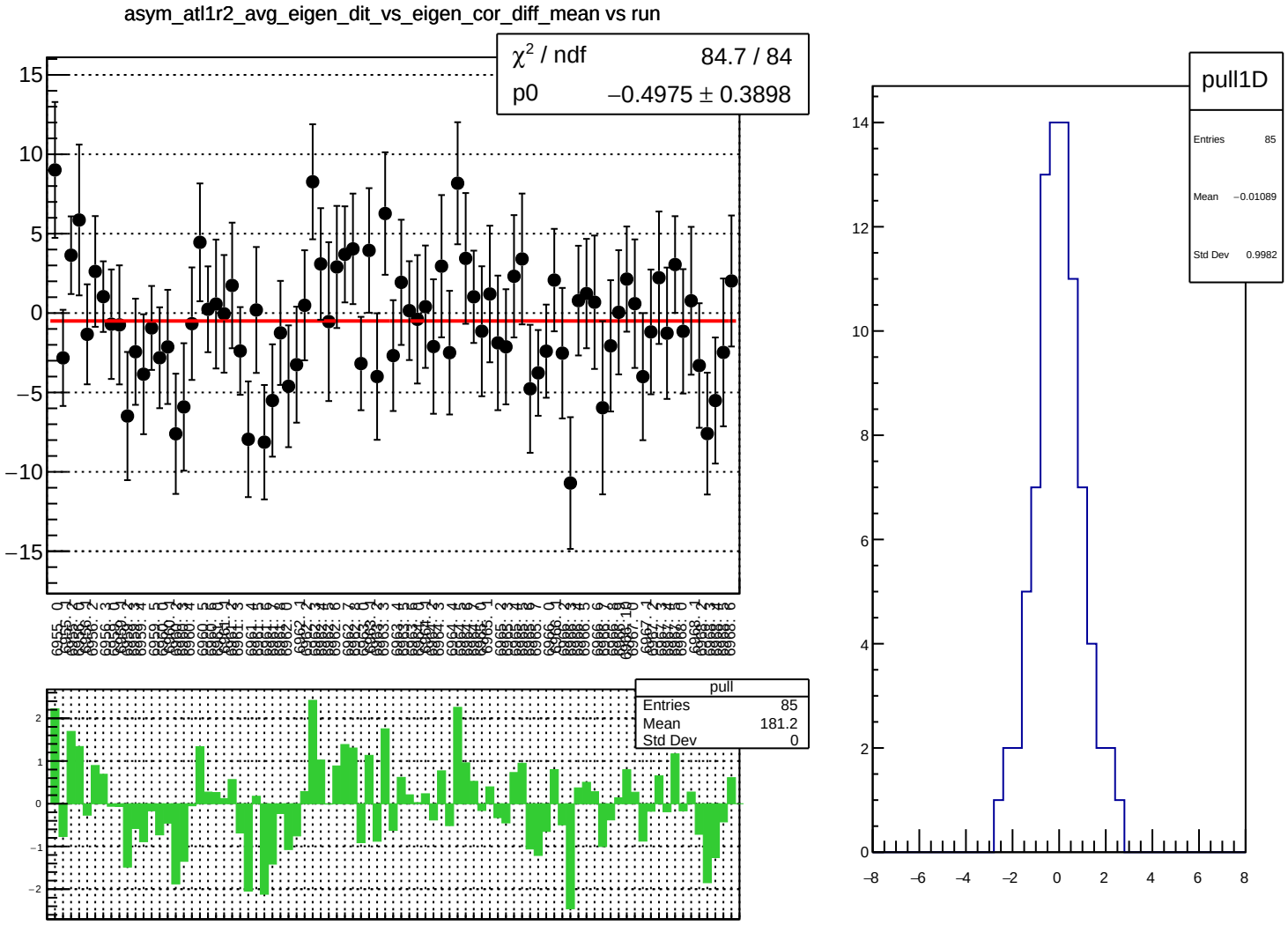

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.321e+04 / 84
p0 350.8 ± 0.2756
500
450
400
350
300
250

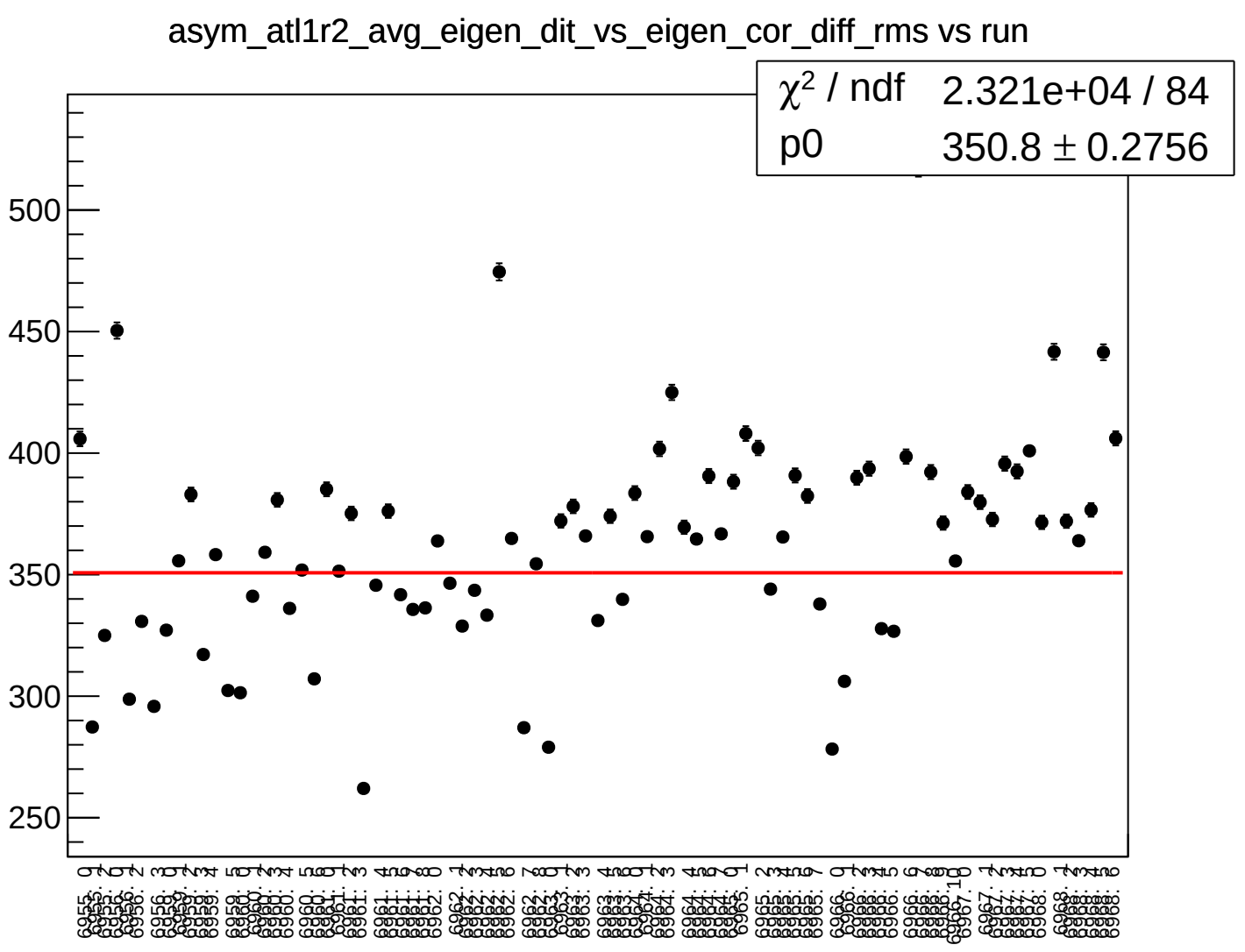

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 98.87 / 84
p0 1.541e−07 ± 7.82e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 85
Mean 571.6
Std Dev 0
pull1D
Entries 85
Mean −0.001963
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

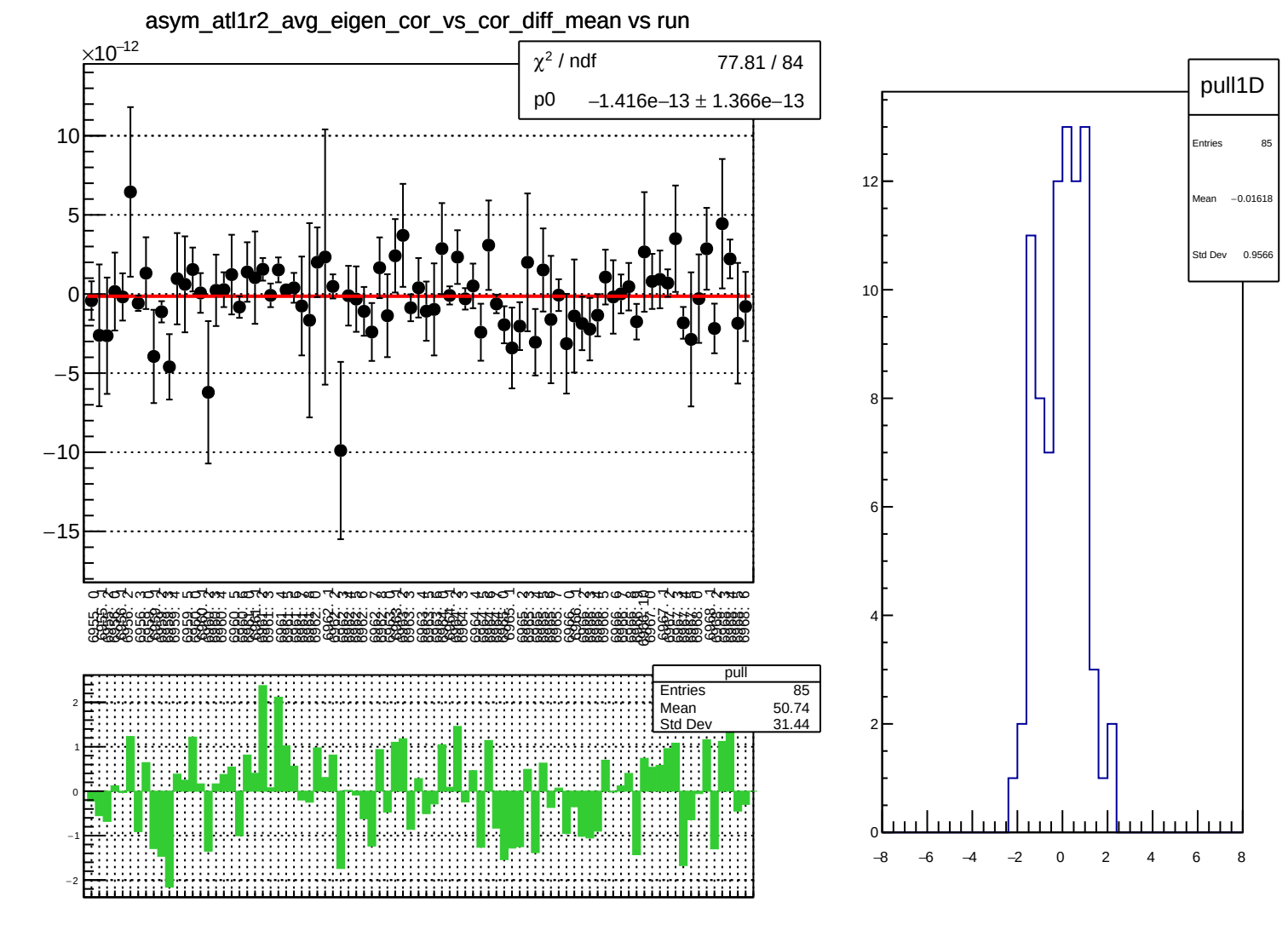

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2137 / 84
p0 0.007082 ± 5.53e–06
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066

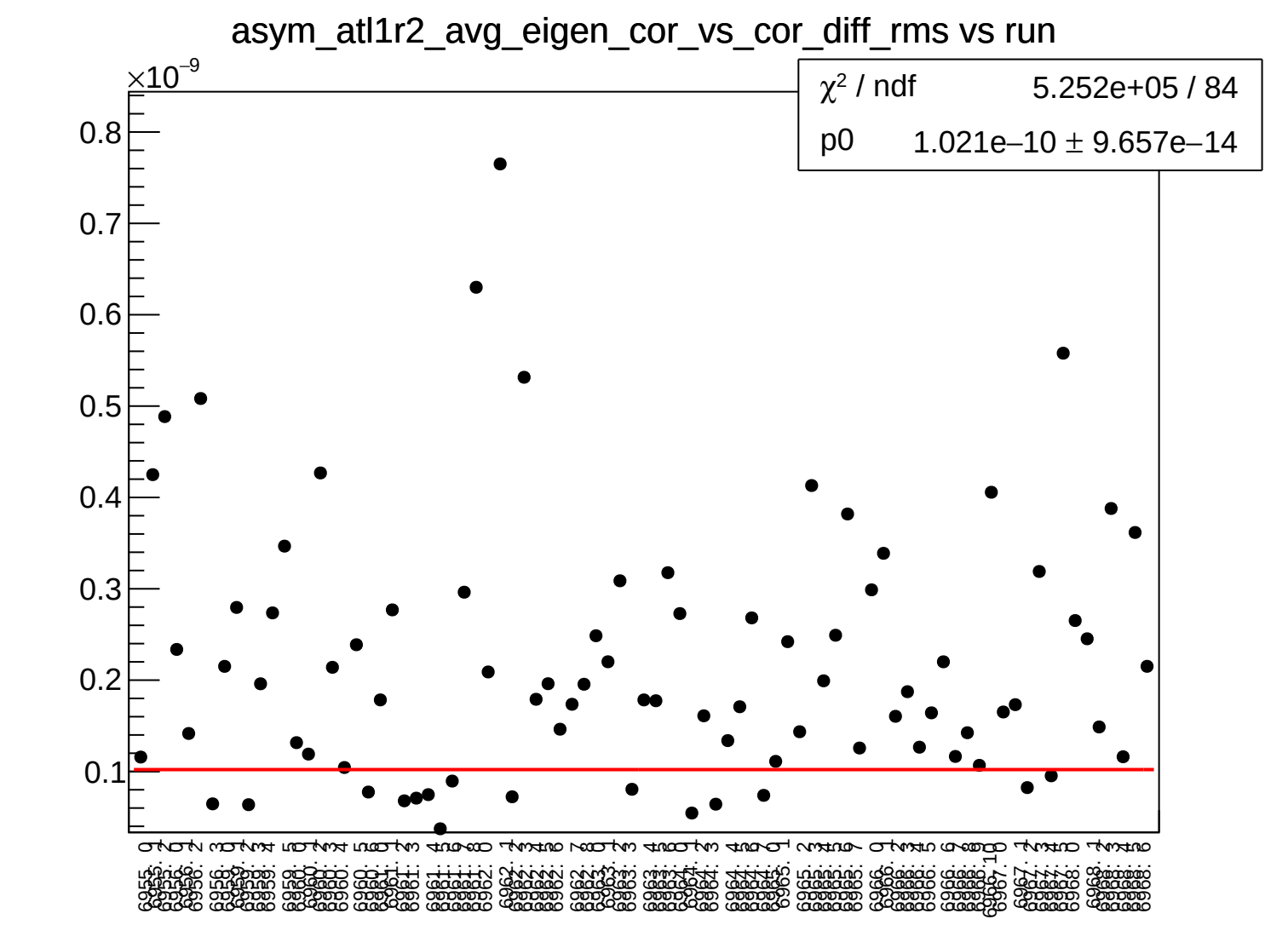

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.7 / 84
p0 −0.4975 ± 0.3898
pull
Entries 85
Mean 181.2
Std Dev 0
pull1D
Entries 85
Mean −0.01089
Std Dev 0.9982

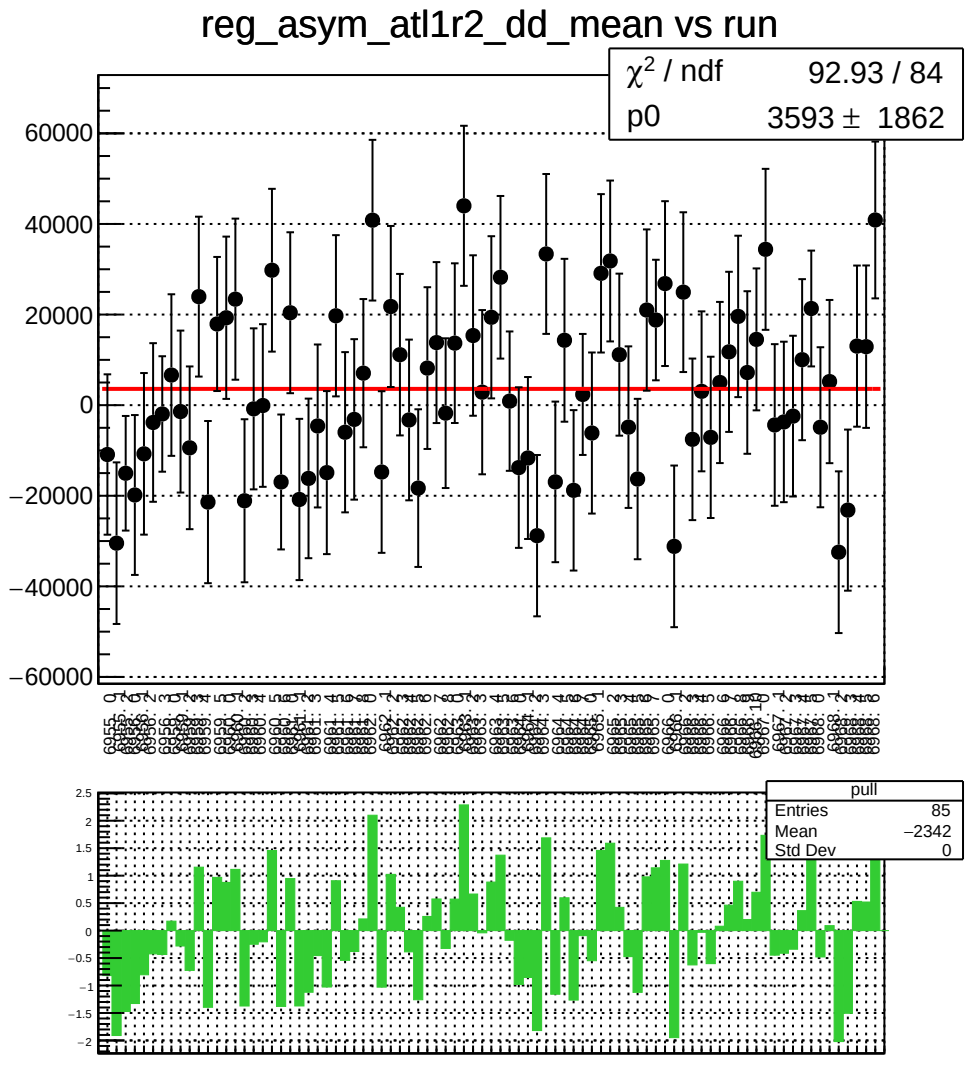

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.321e+04 / 84
p0 350.8 ± 0.2756
500
450
400
350
300
250

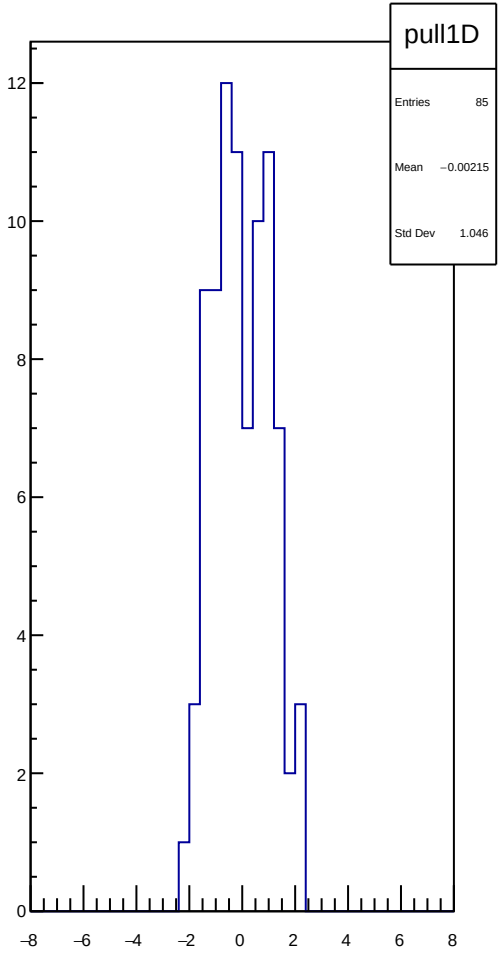

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.7 / 84
p0 −0.4975 ± 0.3898
pull
Entries 85
Mean 181.2
Std Dev 0
pull1D
Entries 85
Mean −0.01089
Std Dev 0.9982

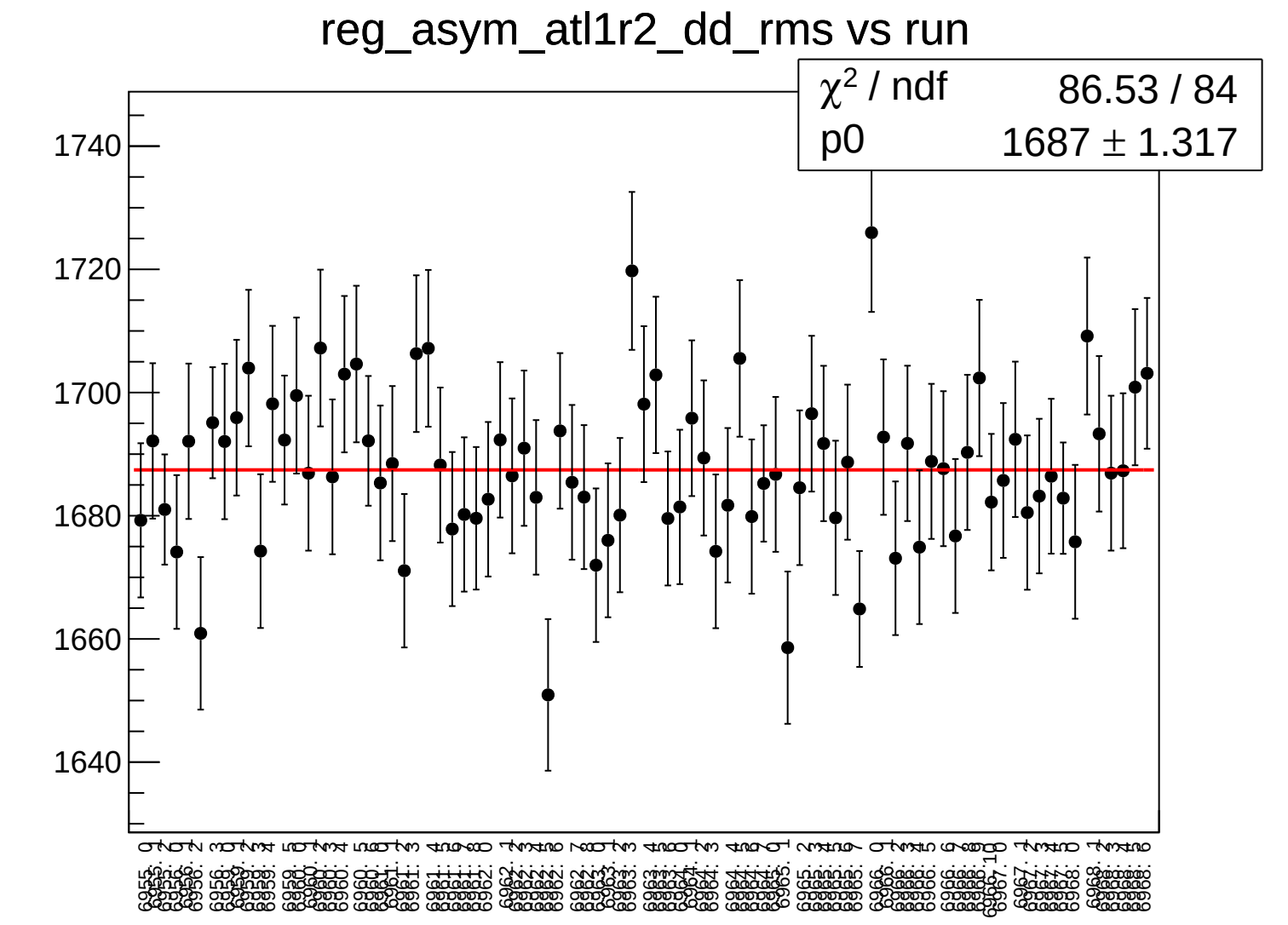

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.321e+04 / 84
p0 350.8 ± 0.2756
500
450
400
350
300
250

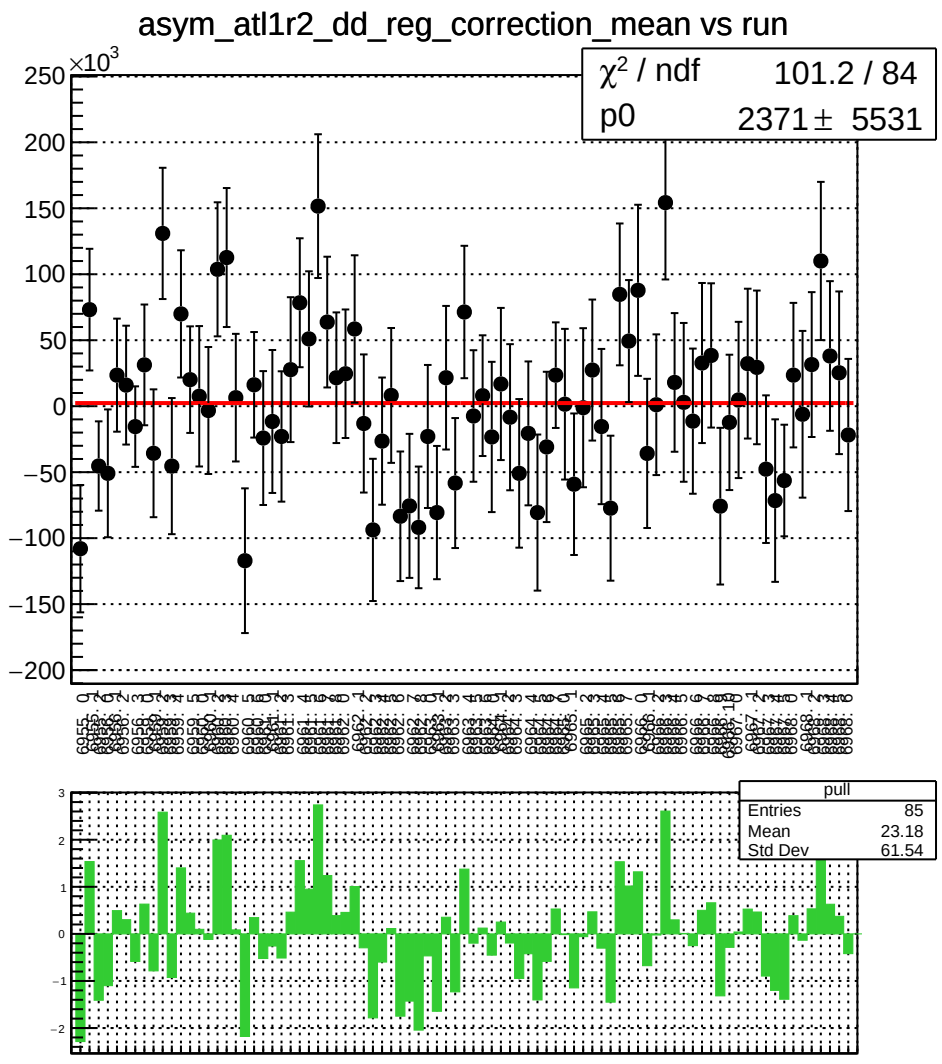

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.81 / 84
p0 −1.416e−13 ± 1.366e−13
10
5
0
−5
−10
−15
pull
Entries 85
Mean 50.74
Std Dev 31.44
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01618
Std Dev 0.9566
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

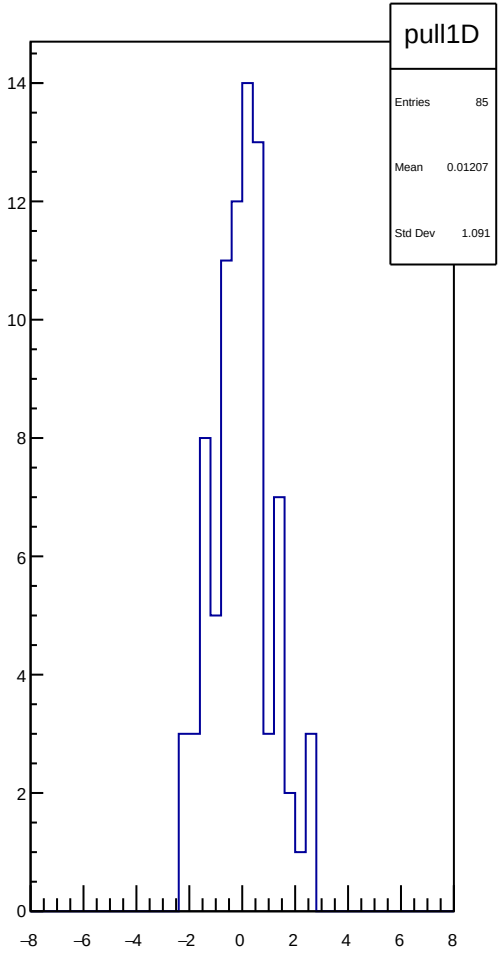

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.252e+05 / 84
p0 1.021e−10 ± 9.657e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

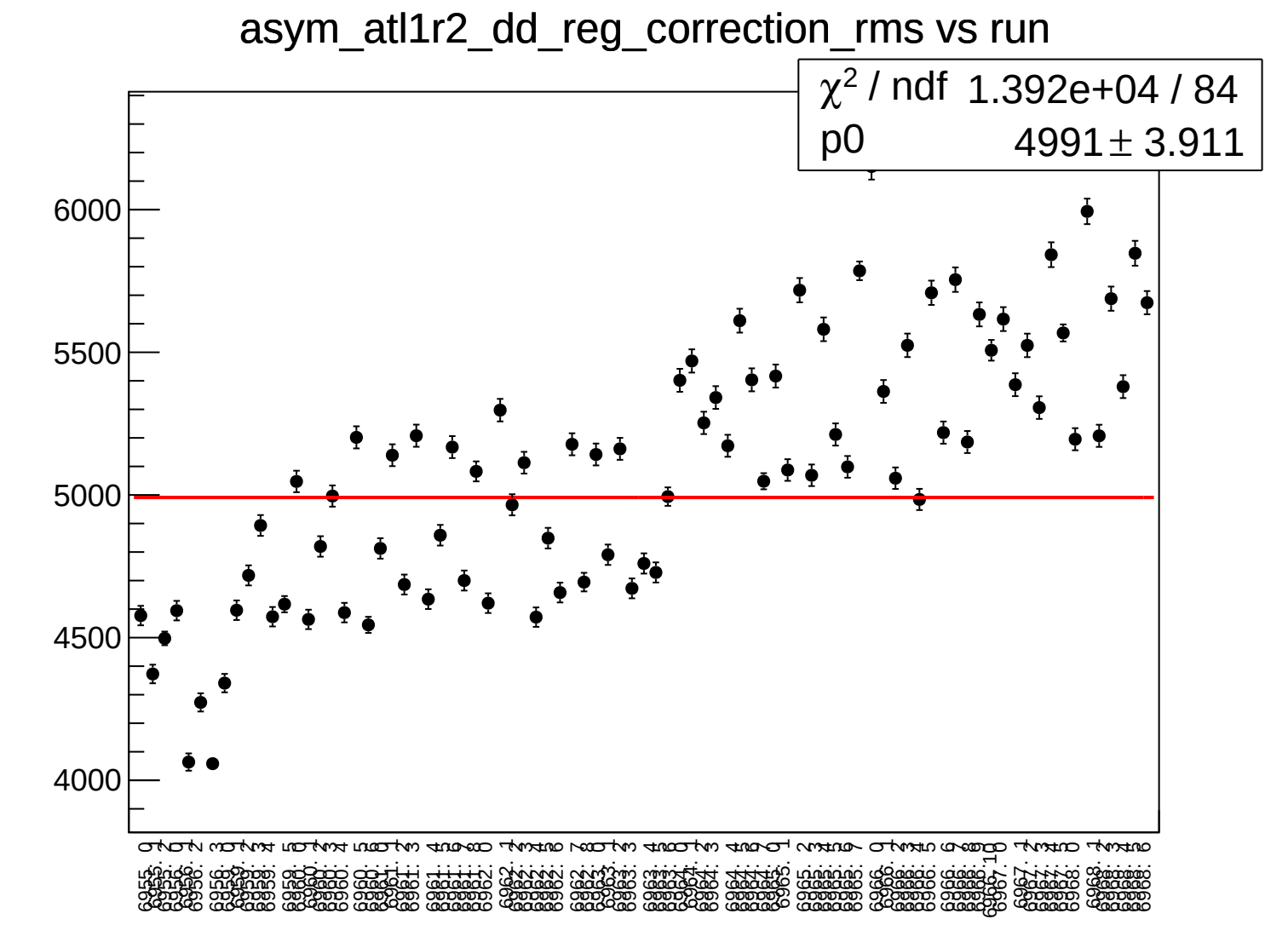

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 92.93 / 84
p0 3593 ± 1862
pull
Entries 85
Mean −2342
Std Dev 0

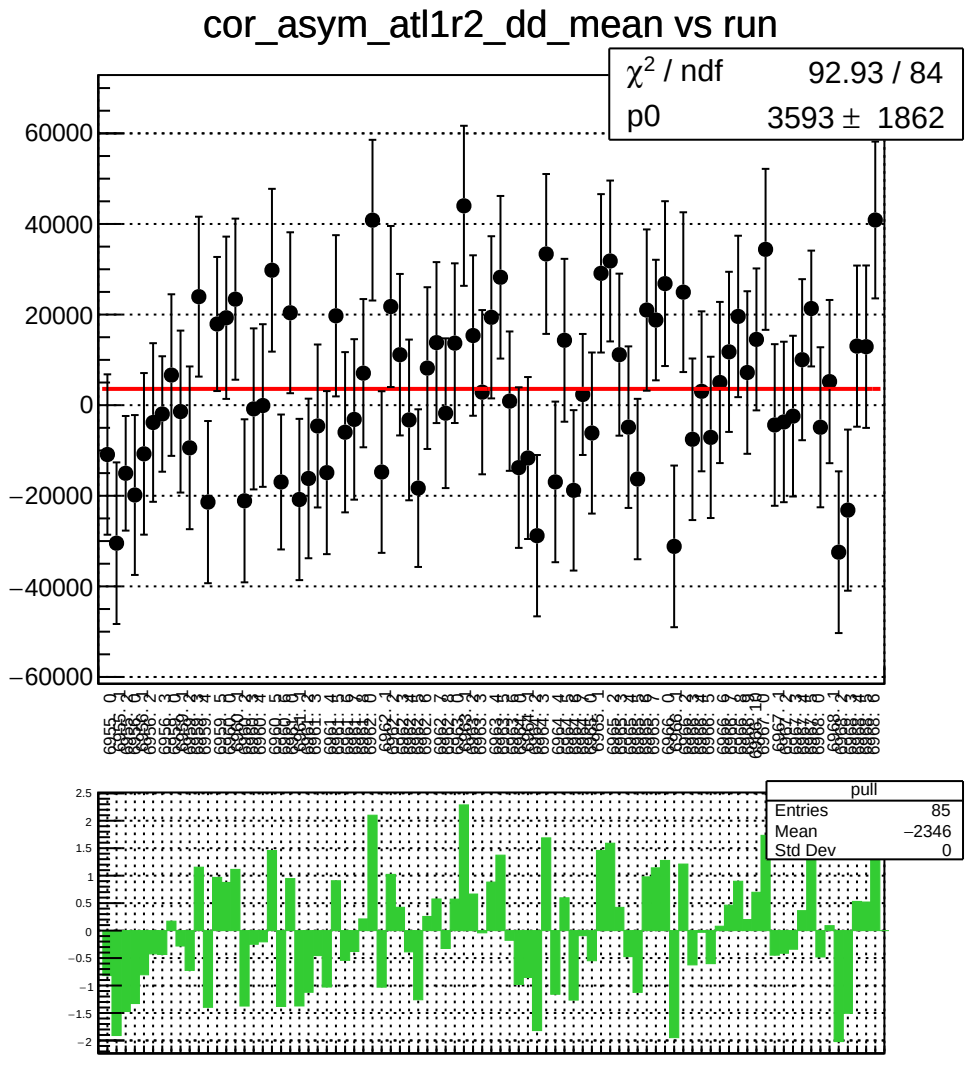

pull1D
Entries 85
Mean −0.00215
Std Dev 1.046

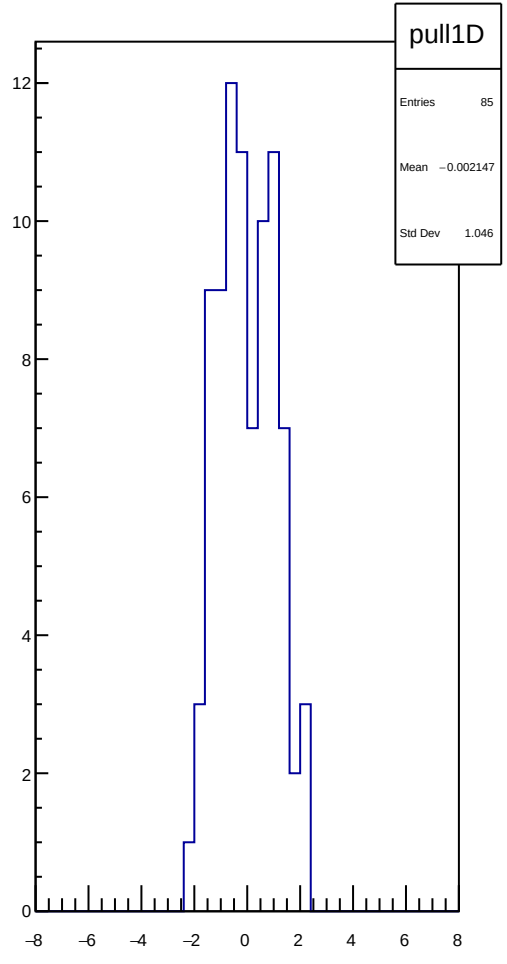

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 86.53 / 84
p0 1687 ± 1.317
1740
1720
1700
1680
1660
1640

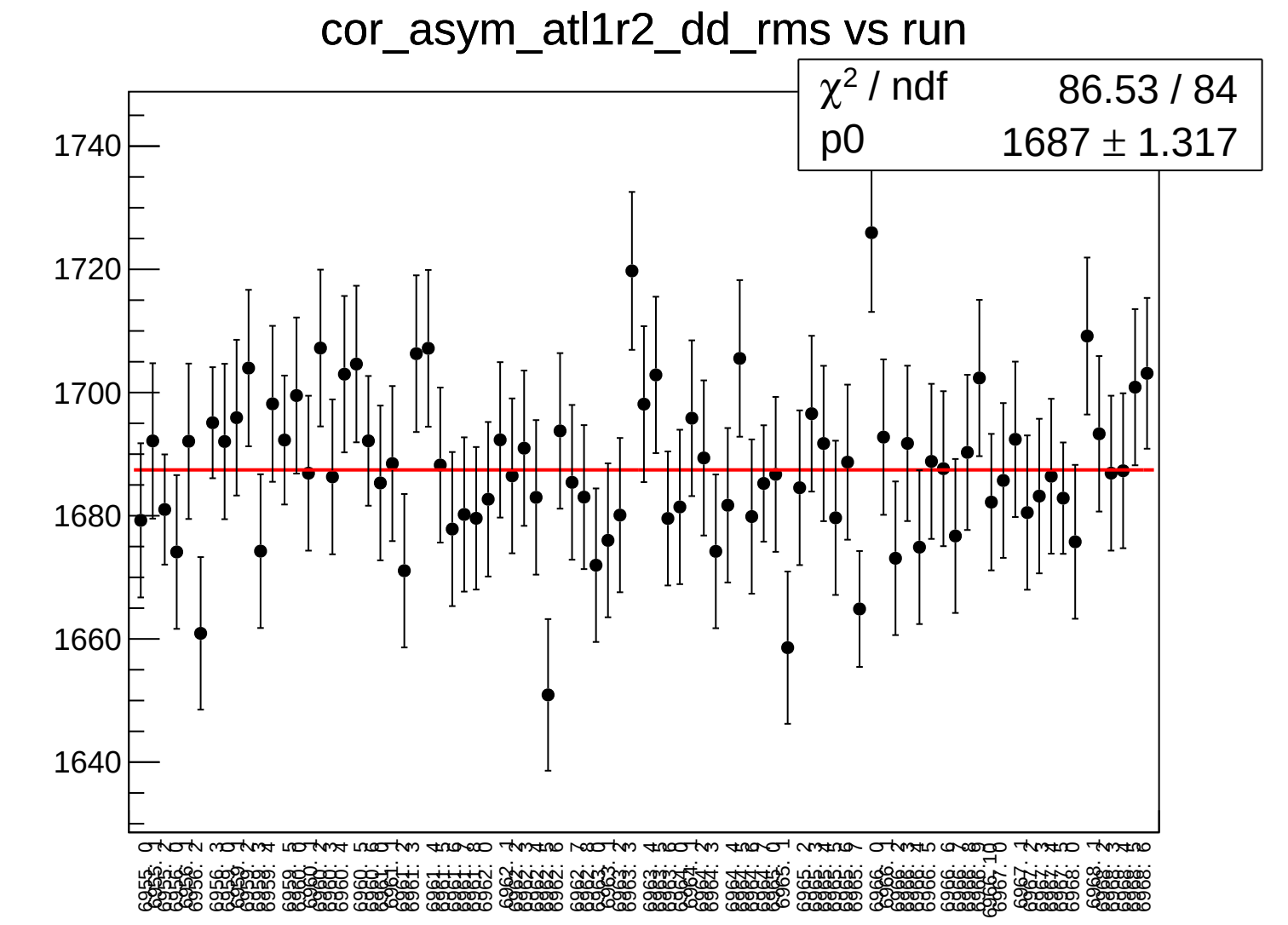

asym_atl1r2_dd_reg_correction_mean vs run
χ² / ndf 101.2 / 84
p0 2371 ± 5531
×10³
pull
Entries 85
Mean 23.18
Std Dev 61.54

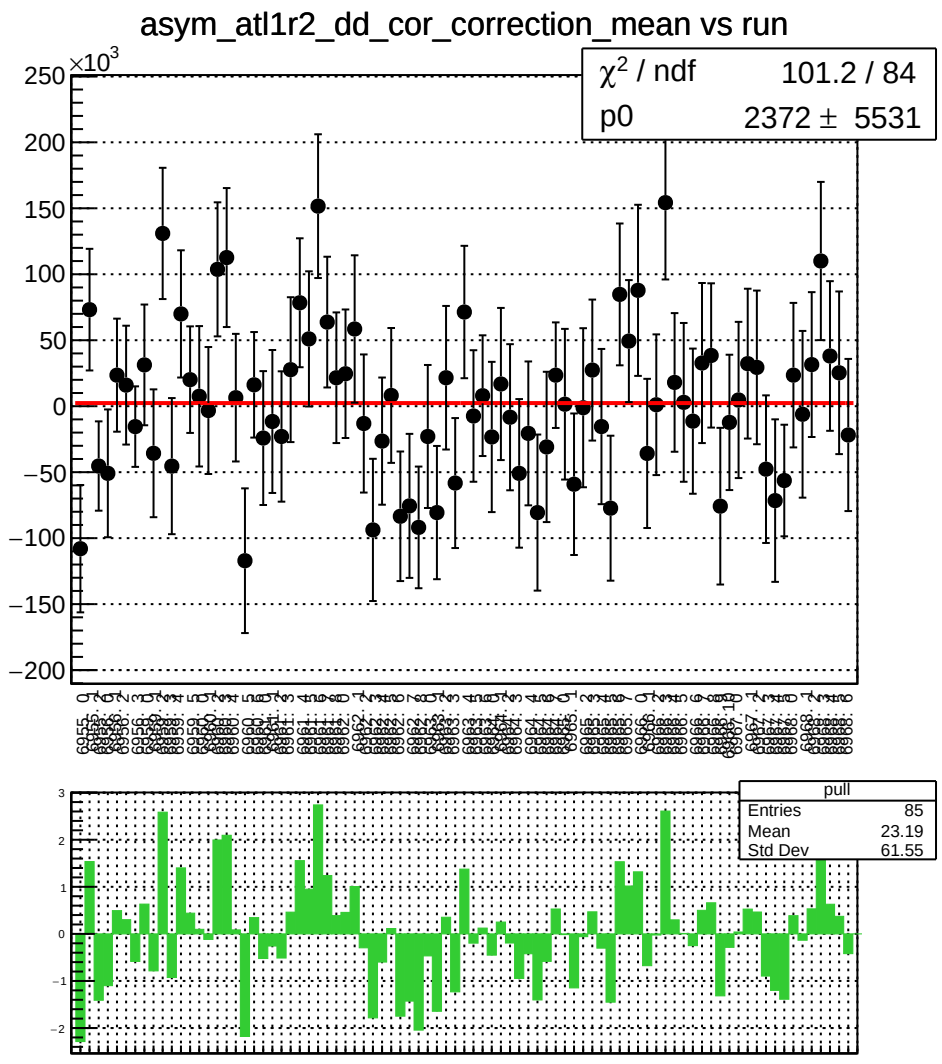

pull1D
Entries 85
Mean 0.01207
Std Dev 1.091

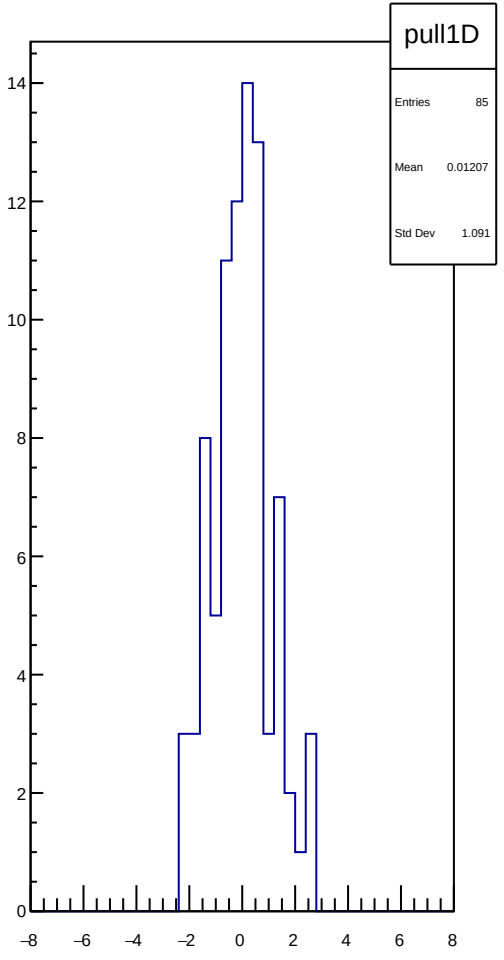

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 1.392e+04 / 84
p0 4991 ± 3.911
6000
5500
5000
4500
4000

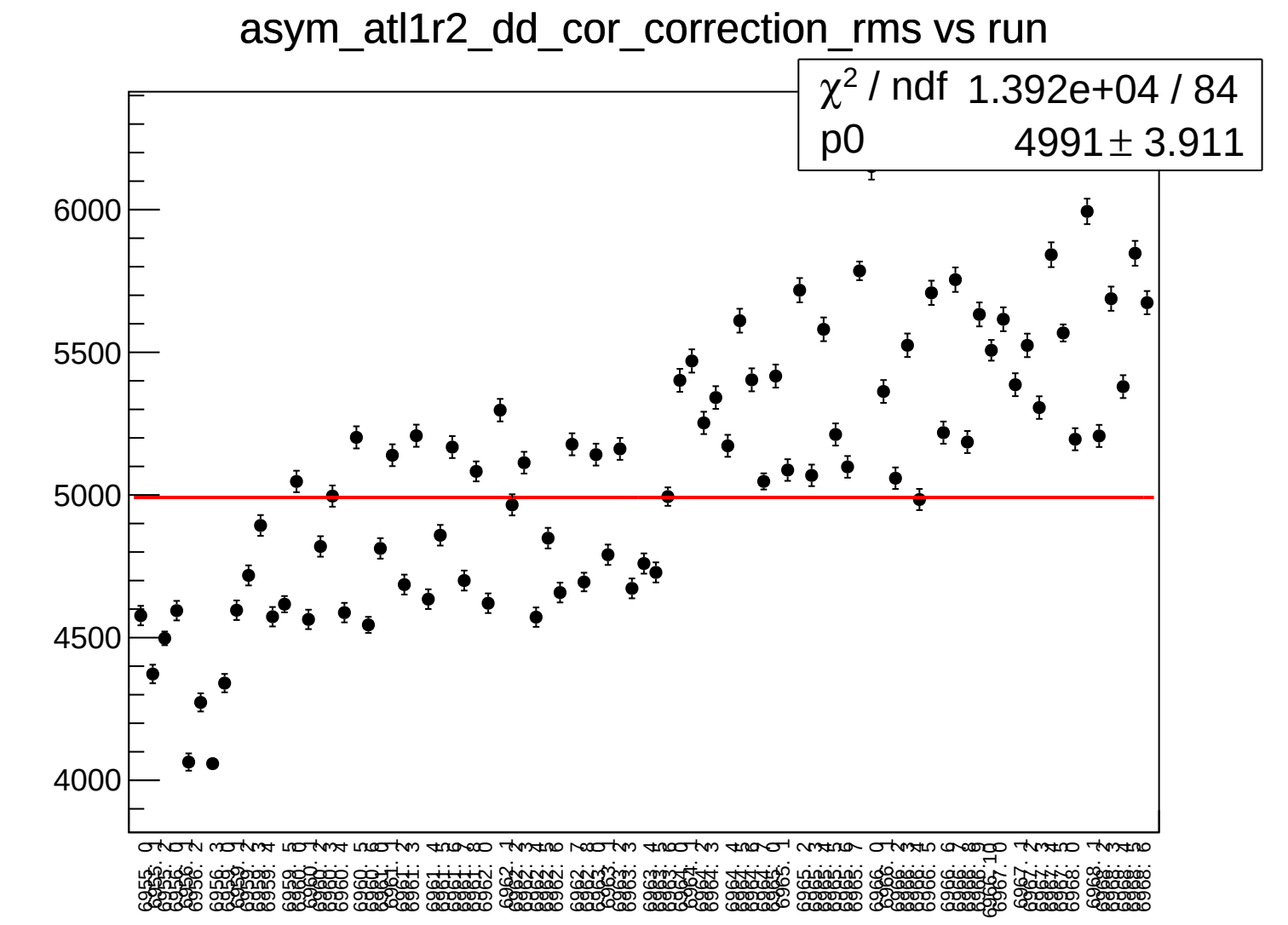

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 92.93 / 84
p0 3593 ± 1862
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −2346
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

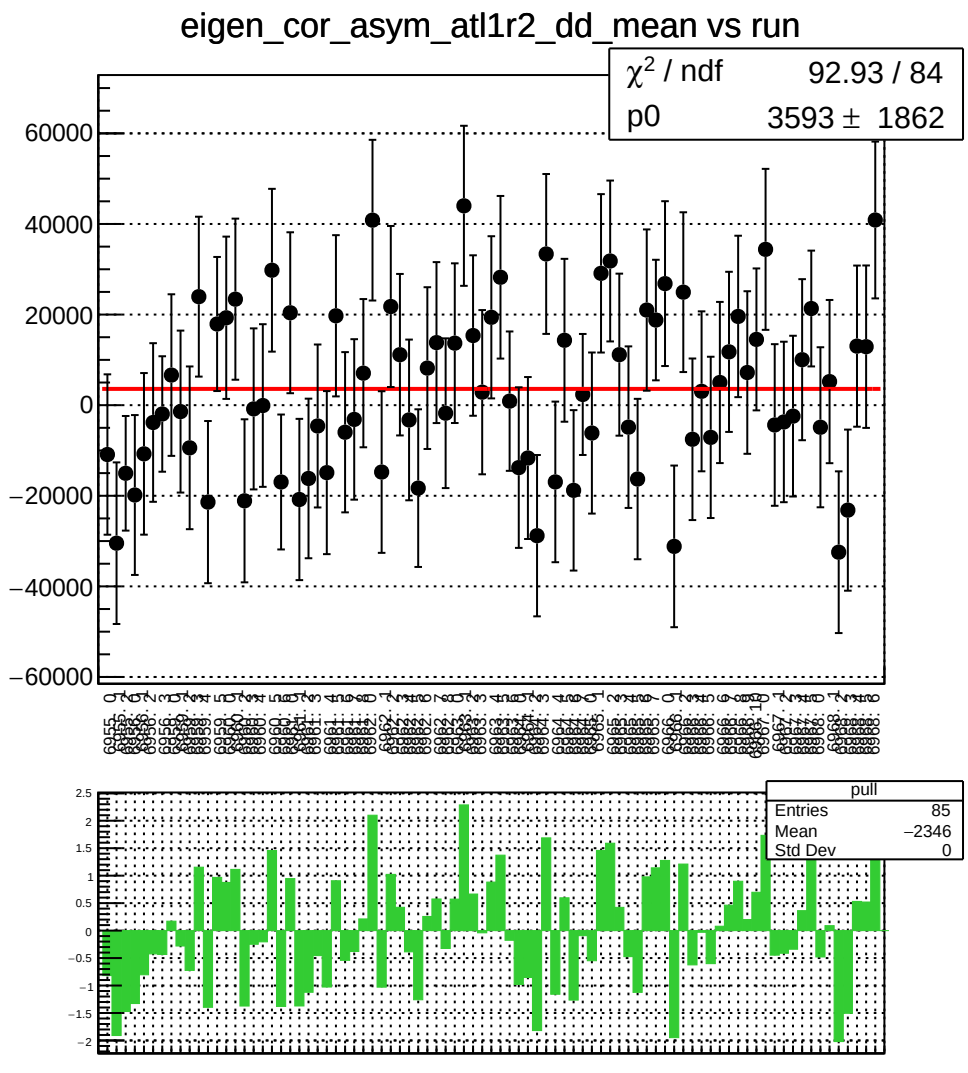

pull1D
Entries 85
Mean −0.002147
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

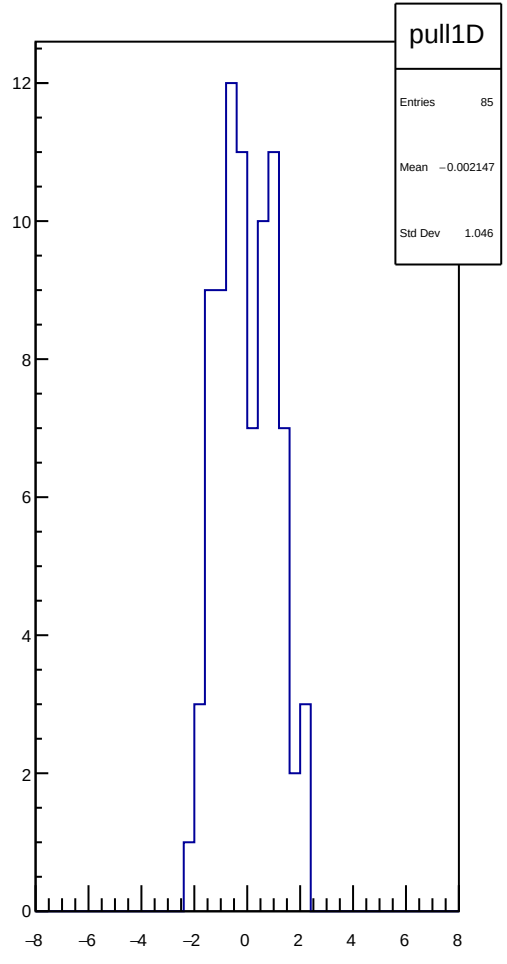

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 86.53 / 84
p0 1687 ± 1.317
1740
1720
1700
1680
1660
1640

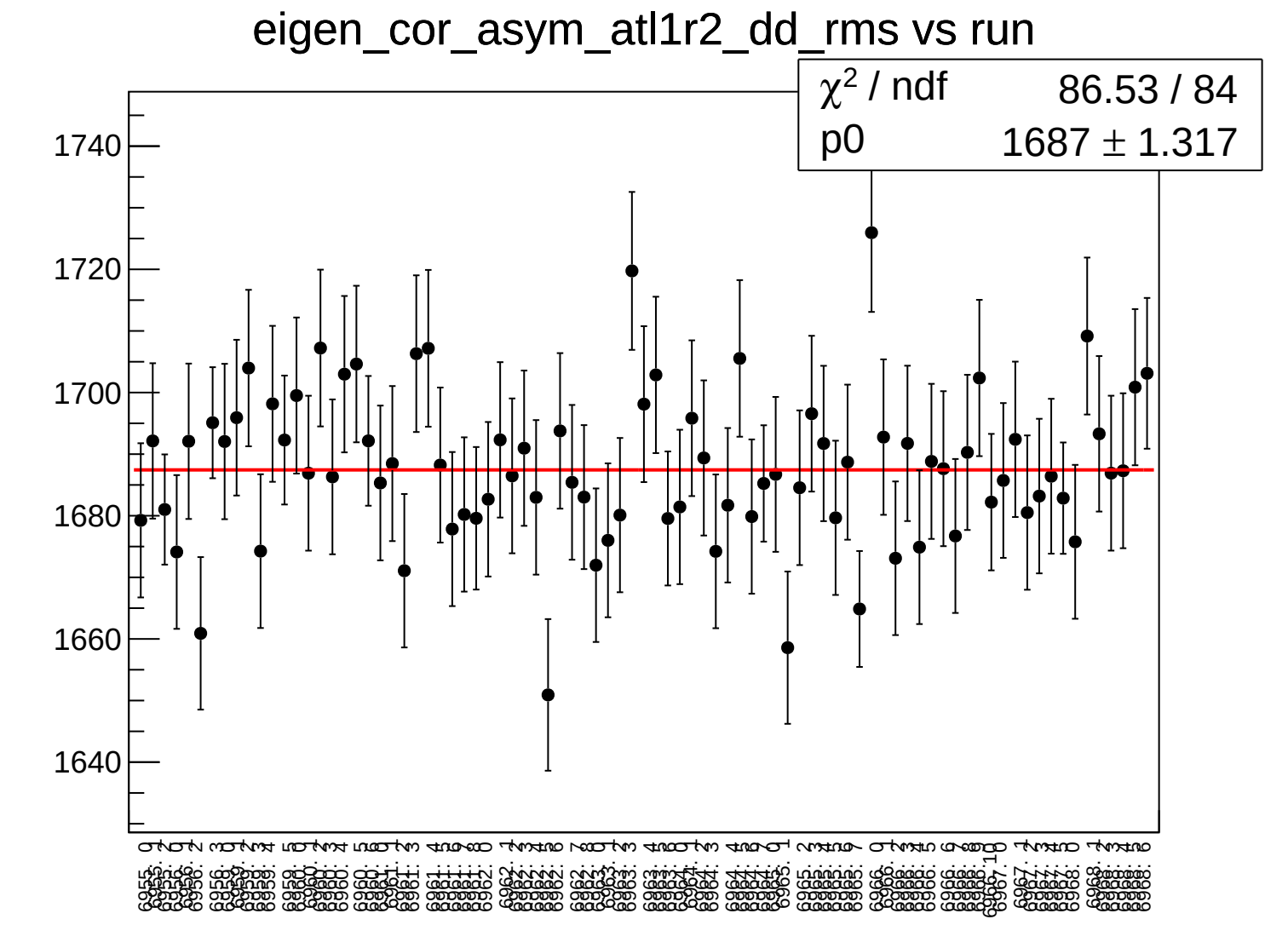

asym_atl1r2_dd_cor_correction_mean vs run
χ² / ndf 101.2 / 84
p0 2372 ± 5531
×10³
pull
Entries 85
Mean 23.19
Std Dev 61.55


pull1D
Entries 85
Mean 0.01207
Std Dev 1.091

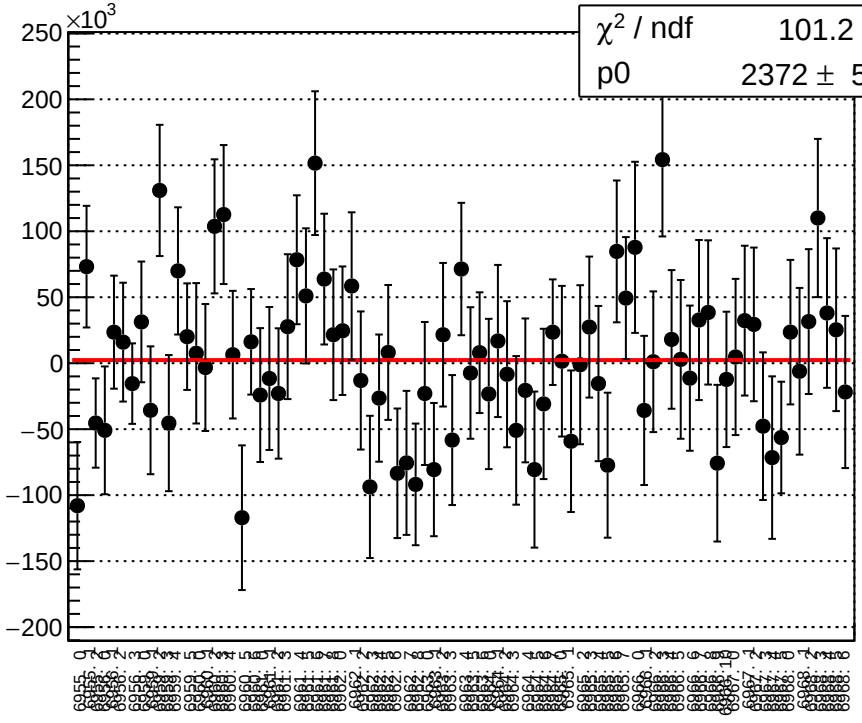

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 1.392e+04 / 84
p0 4991 ± 3.911
6000
5500
5000
4500
4000

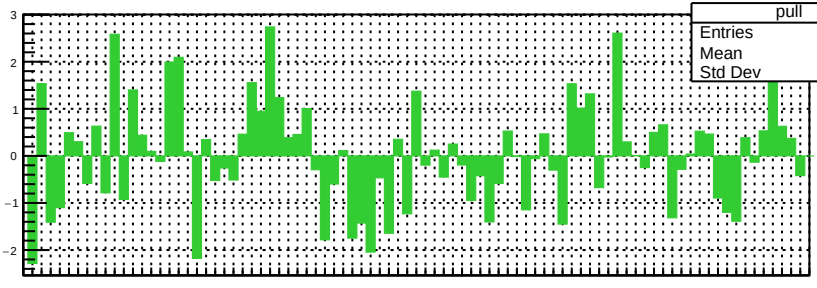

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 92.93 / 84
p0 3593 ± 1862
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −2346
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

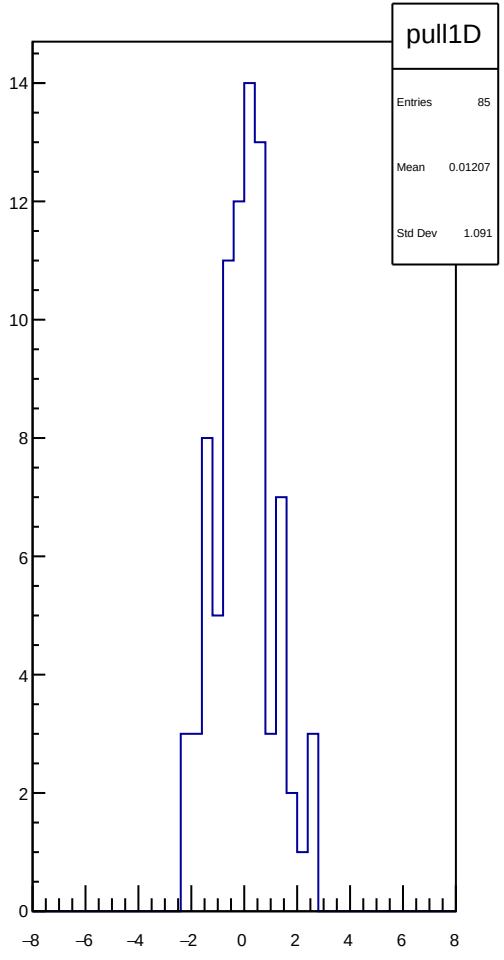

pull1D
Entries 85
Mean −0.002147
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

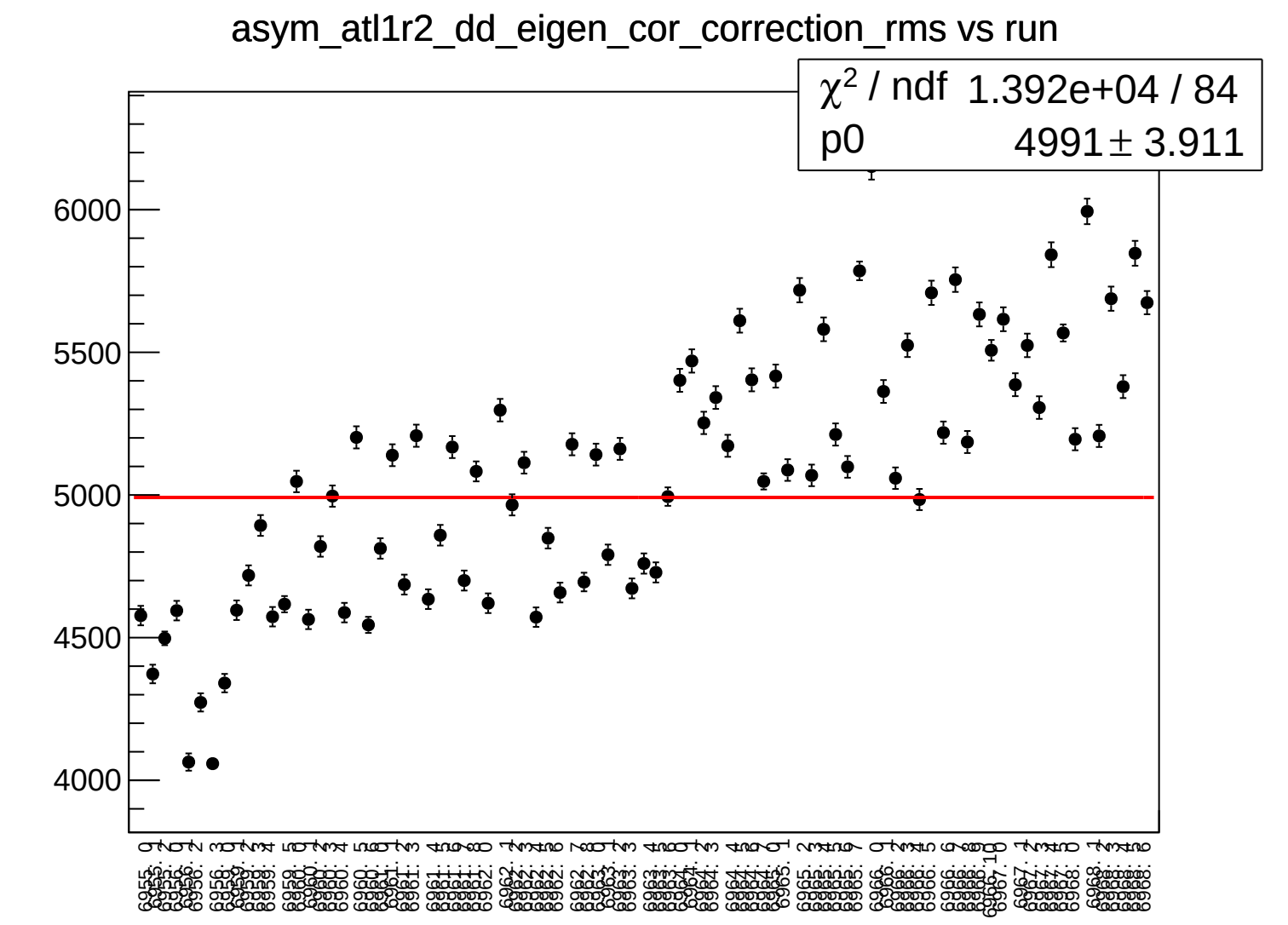

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 86.53 / 84
p0 1687 ± 1.317
1740
1720
1700
1680
1660
1640

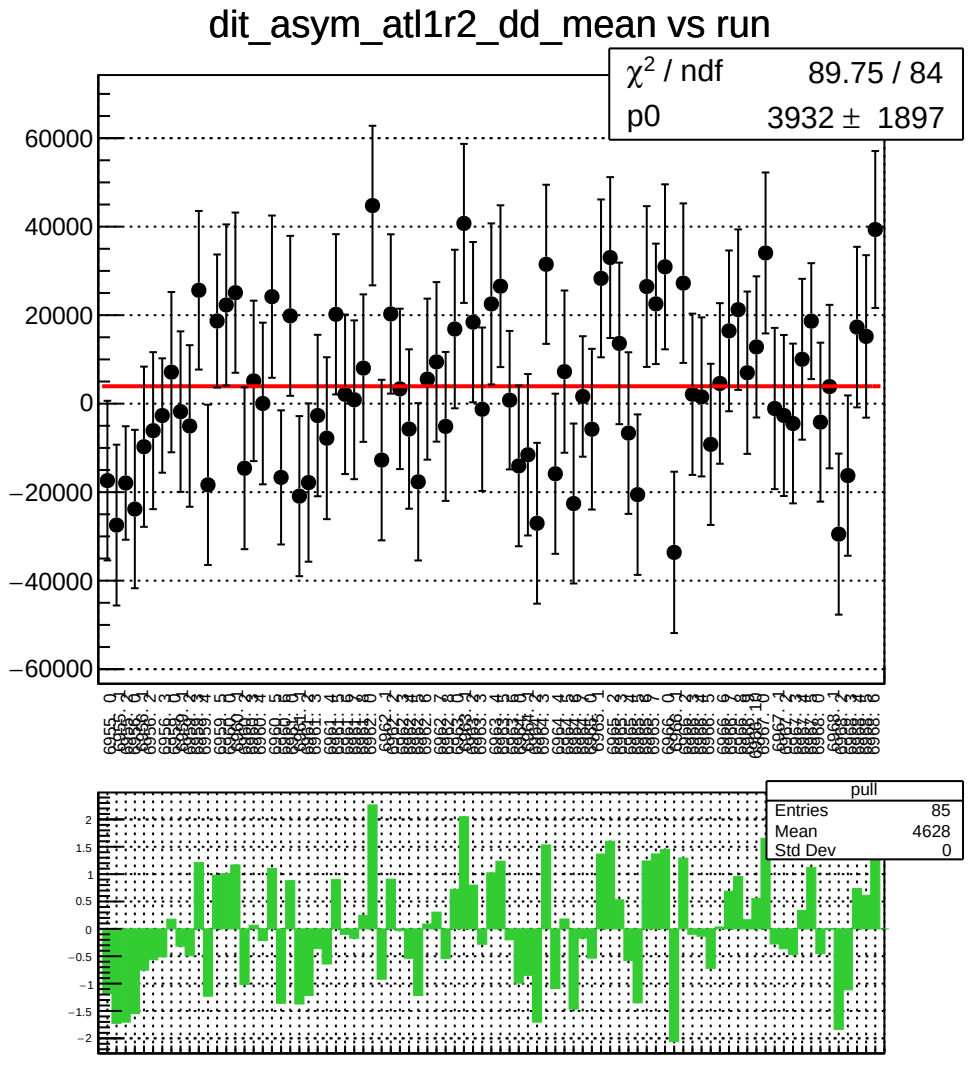
asym_atl1r2_dd_eigen_cor_correction_mean vs run

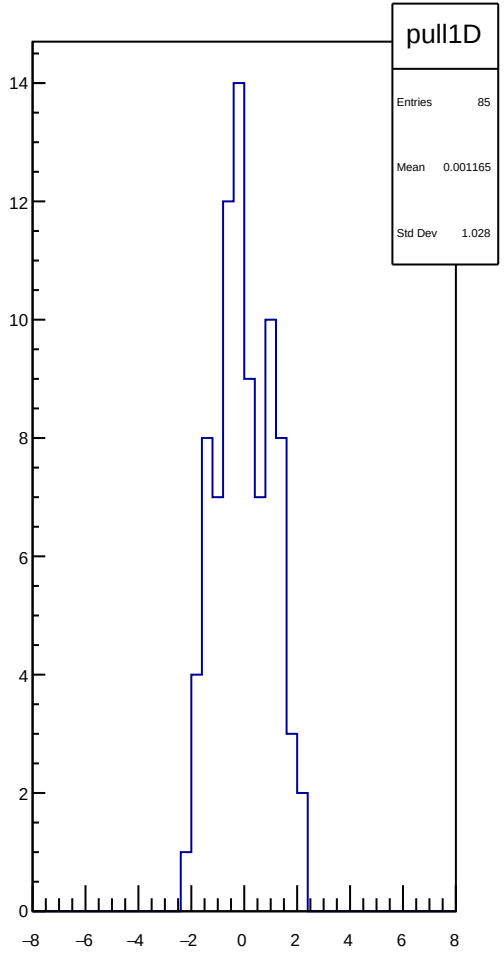


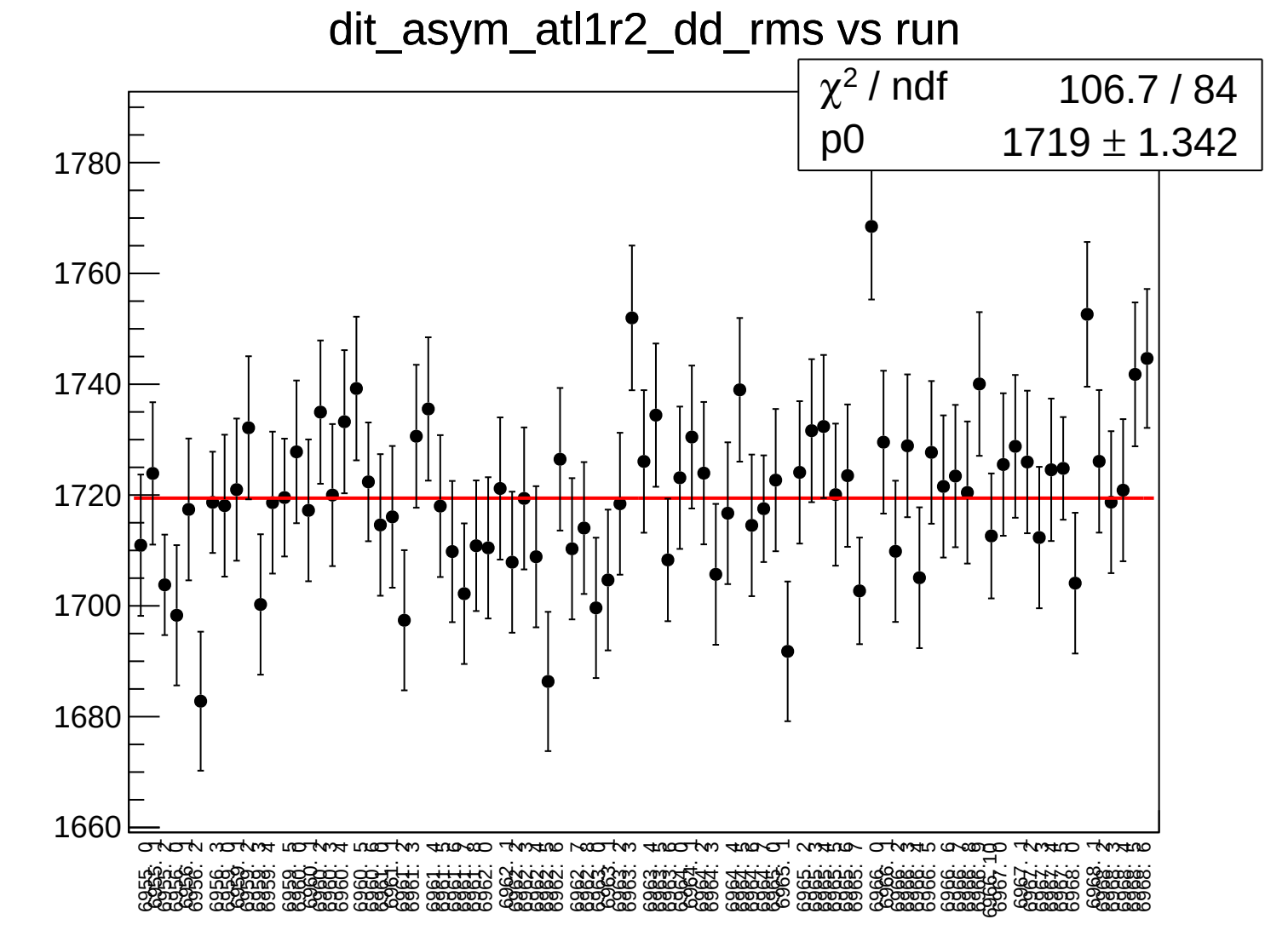



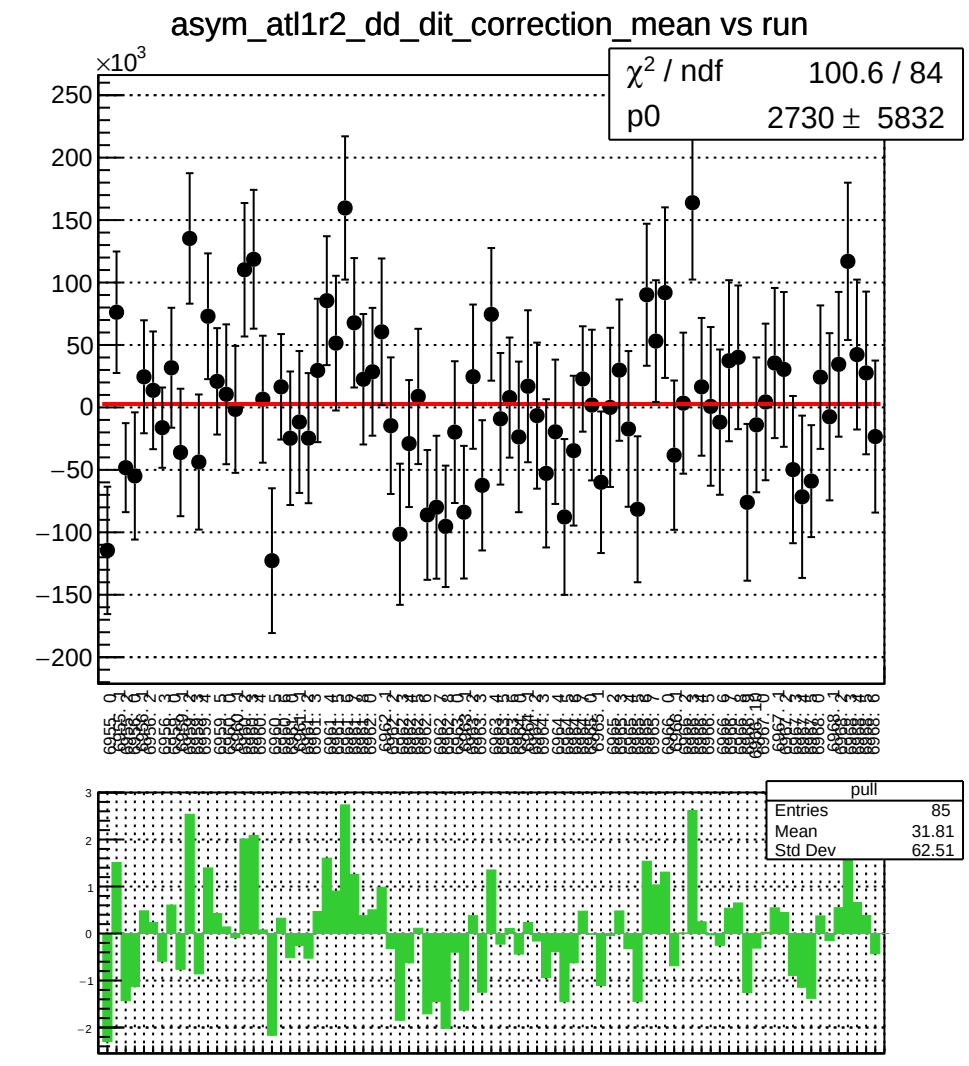



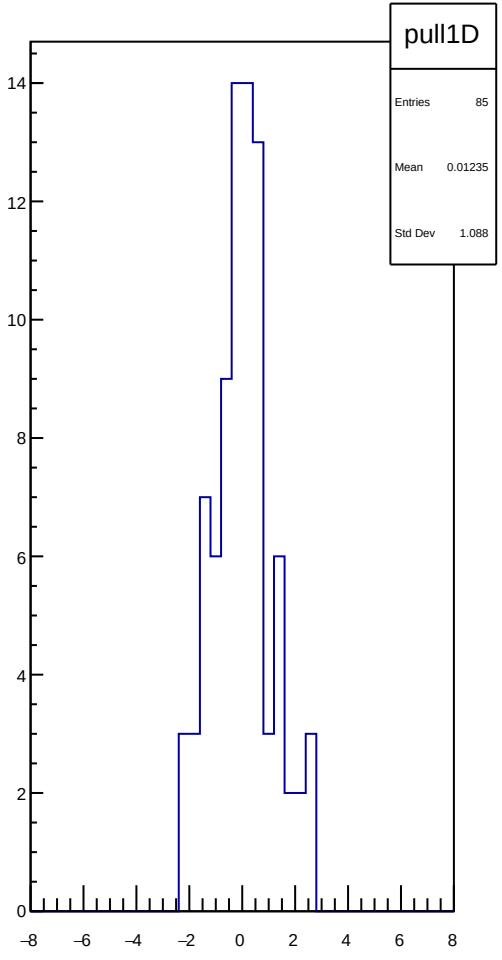

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.392e+04 / 84
p0 4991 ± 3.911
6000
5500
5000
4500
4000

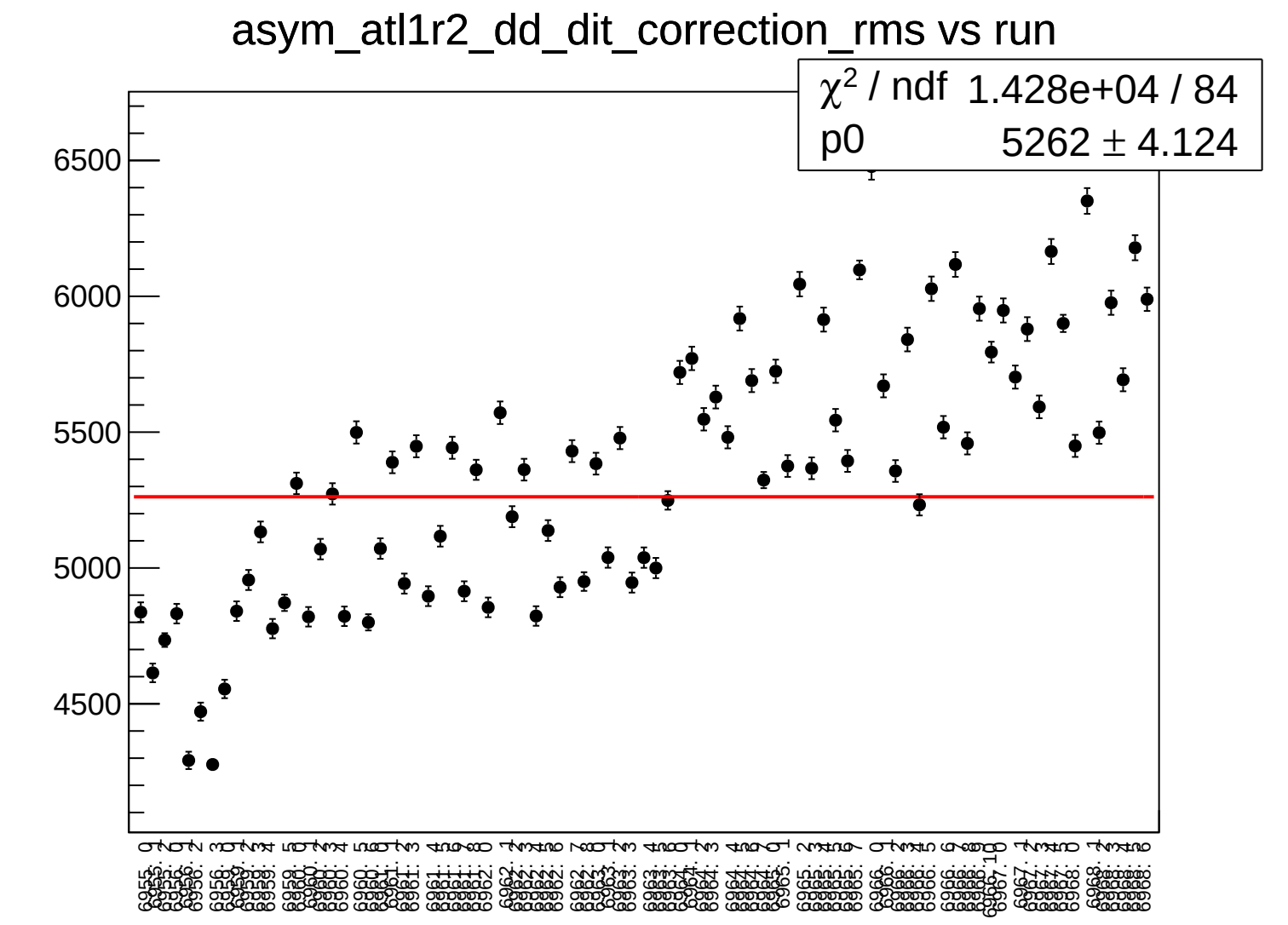

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 89.75 / 84
p0 3932 ± 1897
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 4628
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

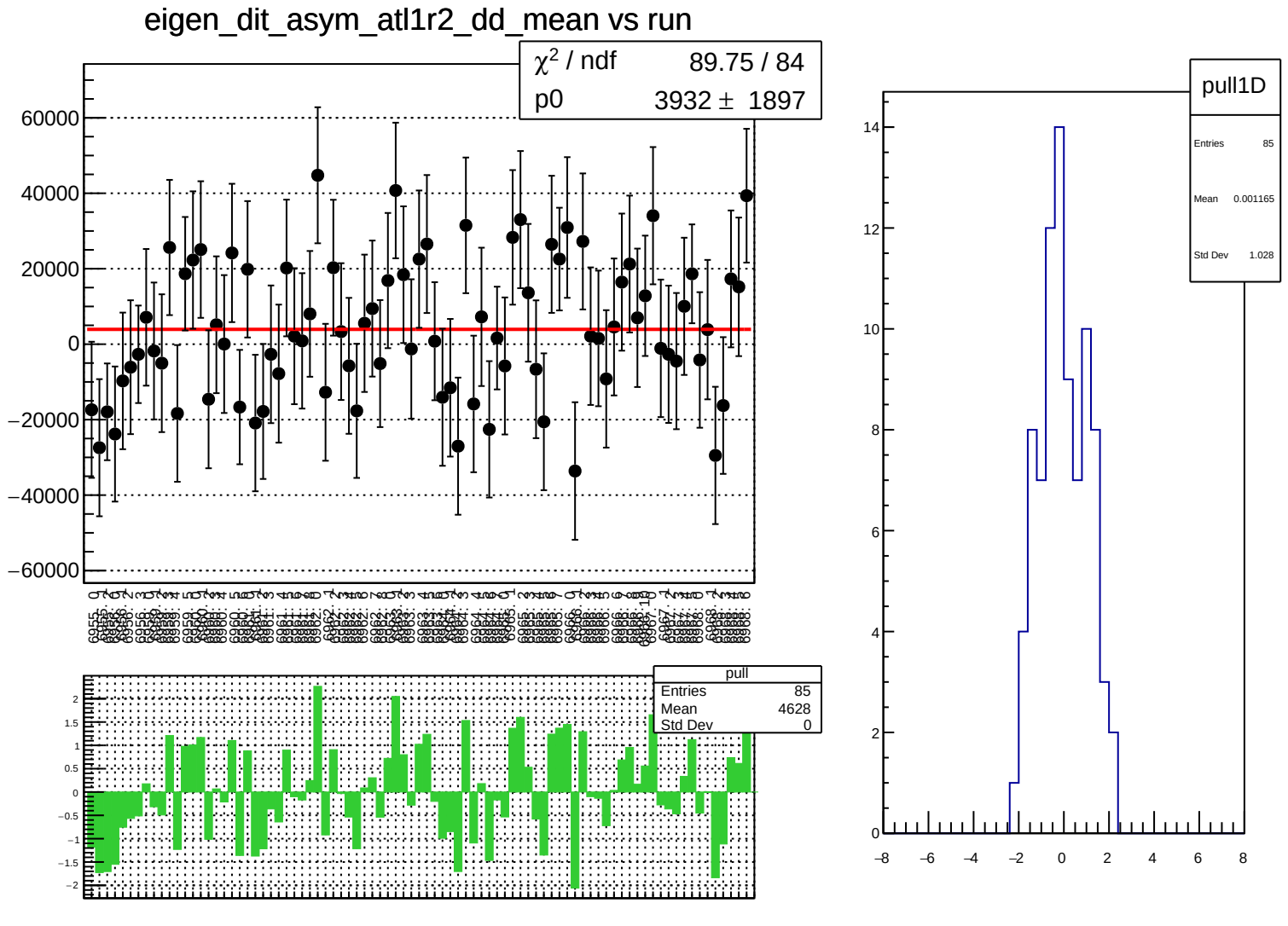

pull1D
Entries 85
Mean 0.001165
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

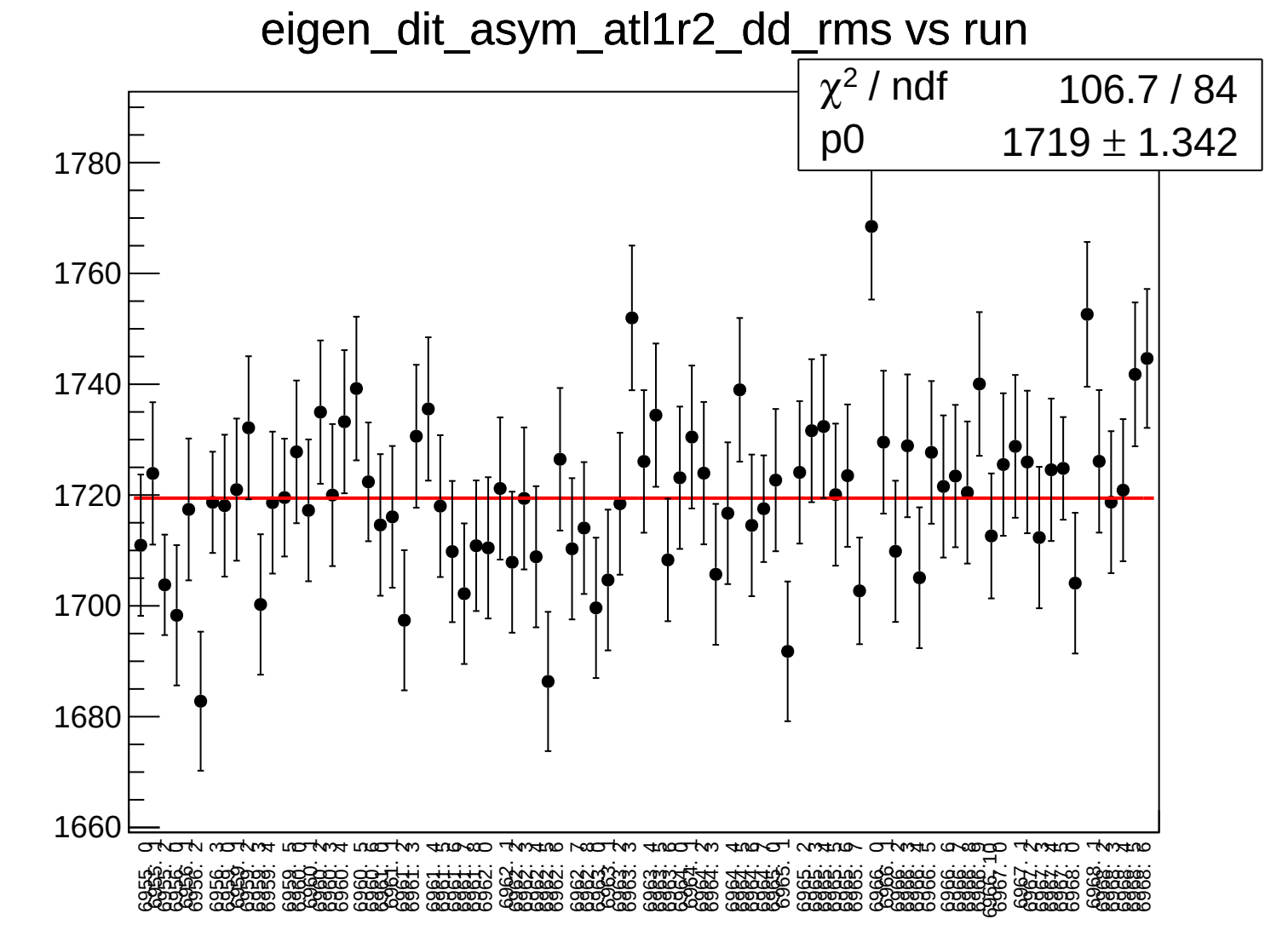

dit_asym_atl1r2_dd_rms vs run
$\chi^2$ / ndf 106.7 / 84
p0 1719 ± 1.342
1780
1760
1740
1720
1700
1680
1660

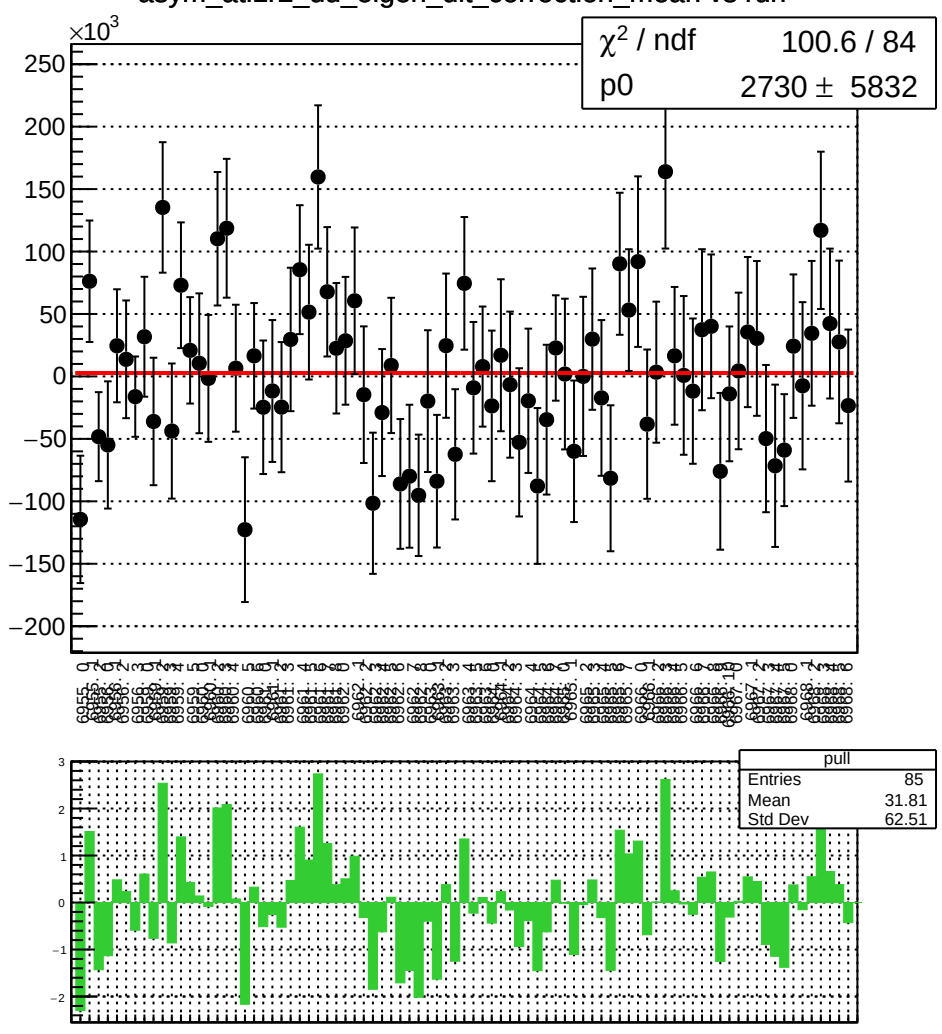

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 100.6 / 84
p0 2730 ± 5832
pull
Entries 85
Mean 31.81
Std Dev 62.51

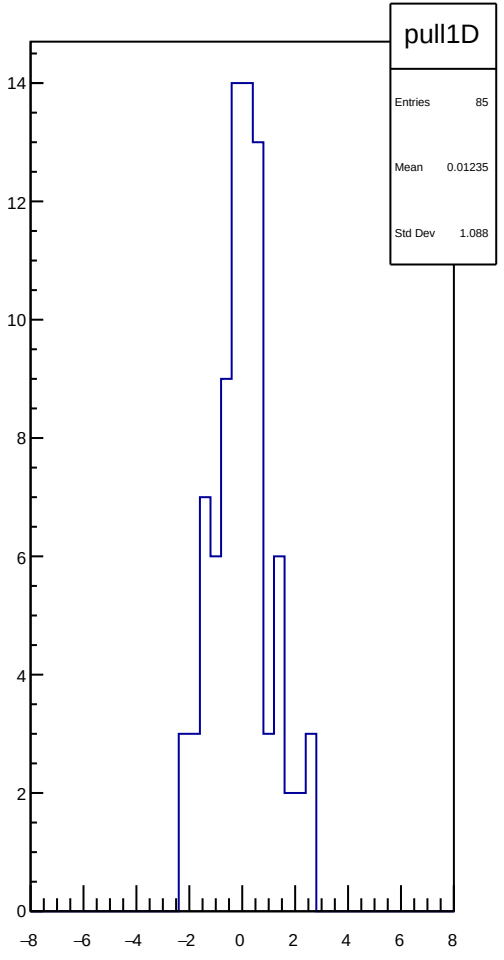

pull1D
Entries 85
Mean 0.01235
Std Dev 1.088

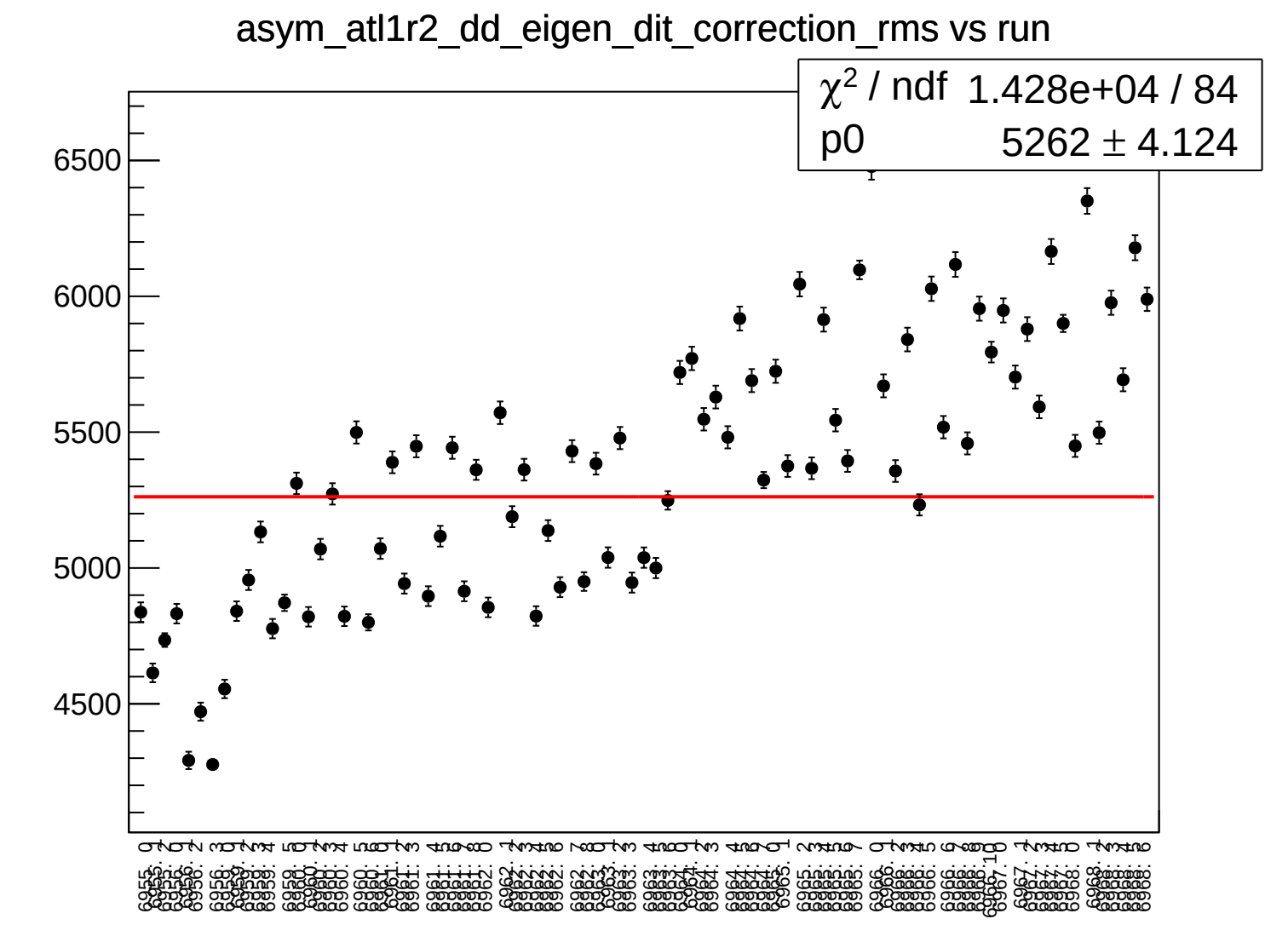

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 1.428e+04 / 84
p0 5262 ± 4.124
6500
6000
5500
5000
4500

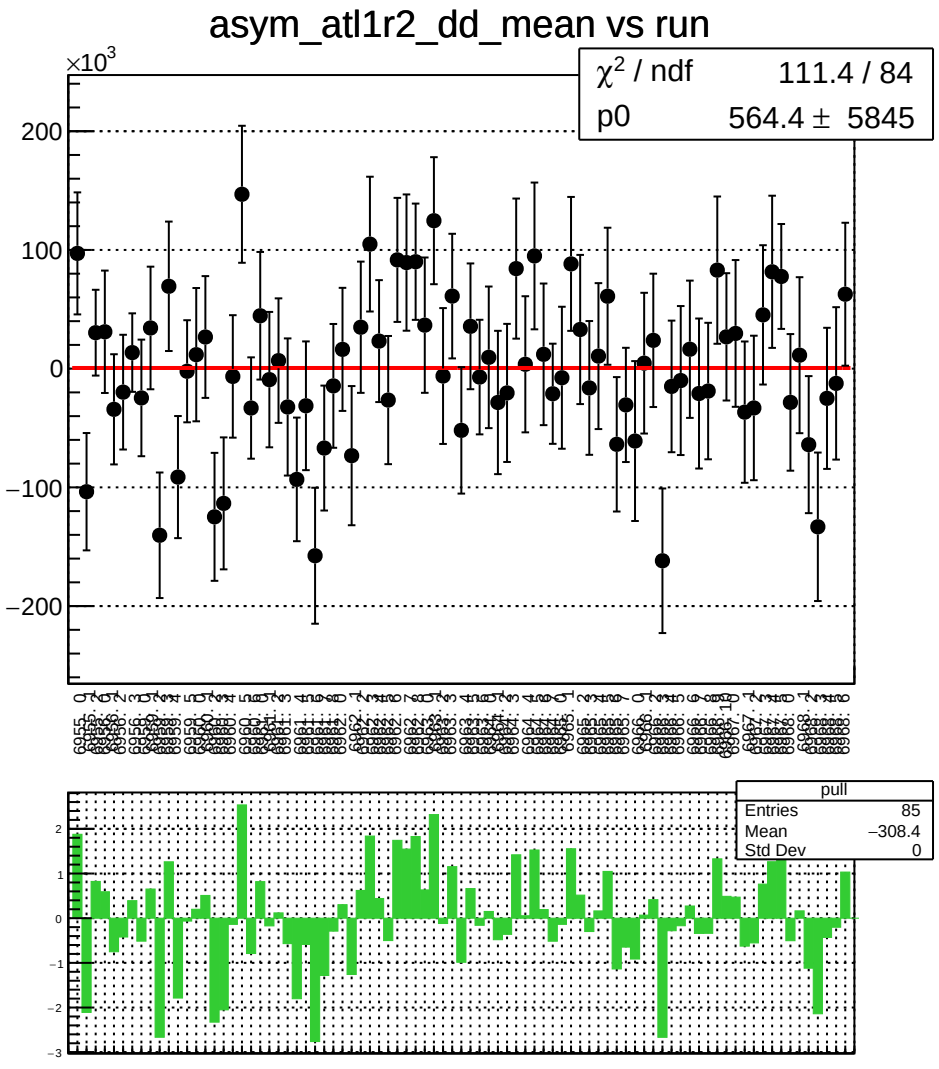

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 89.75 / 84
p0 3932 ± 1897
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 4628
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.001165
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

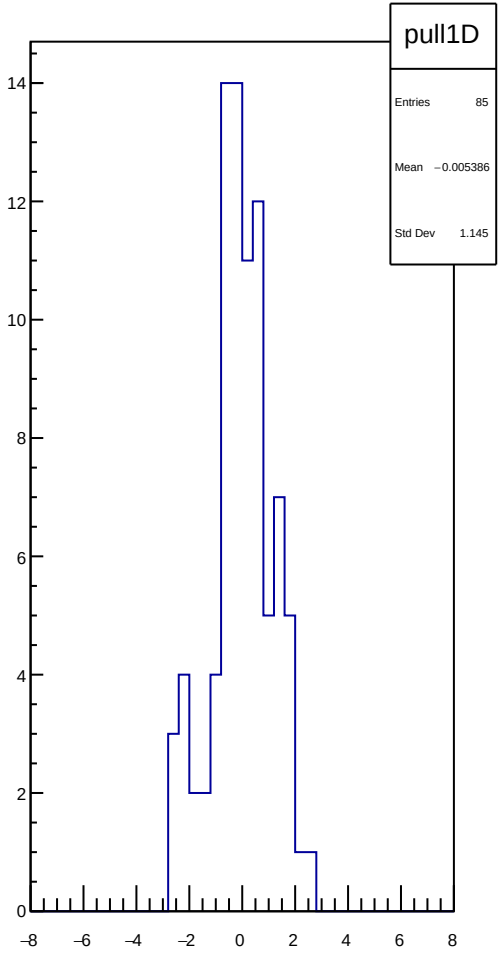

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 106.7 / 84
p0 1719 ± 1.342
1780
1760
1740
1720
1700
1680
1660

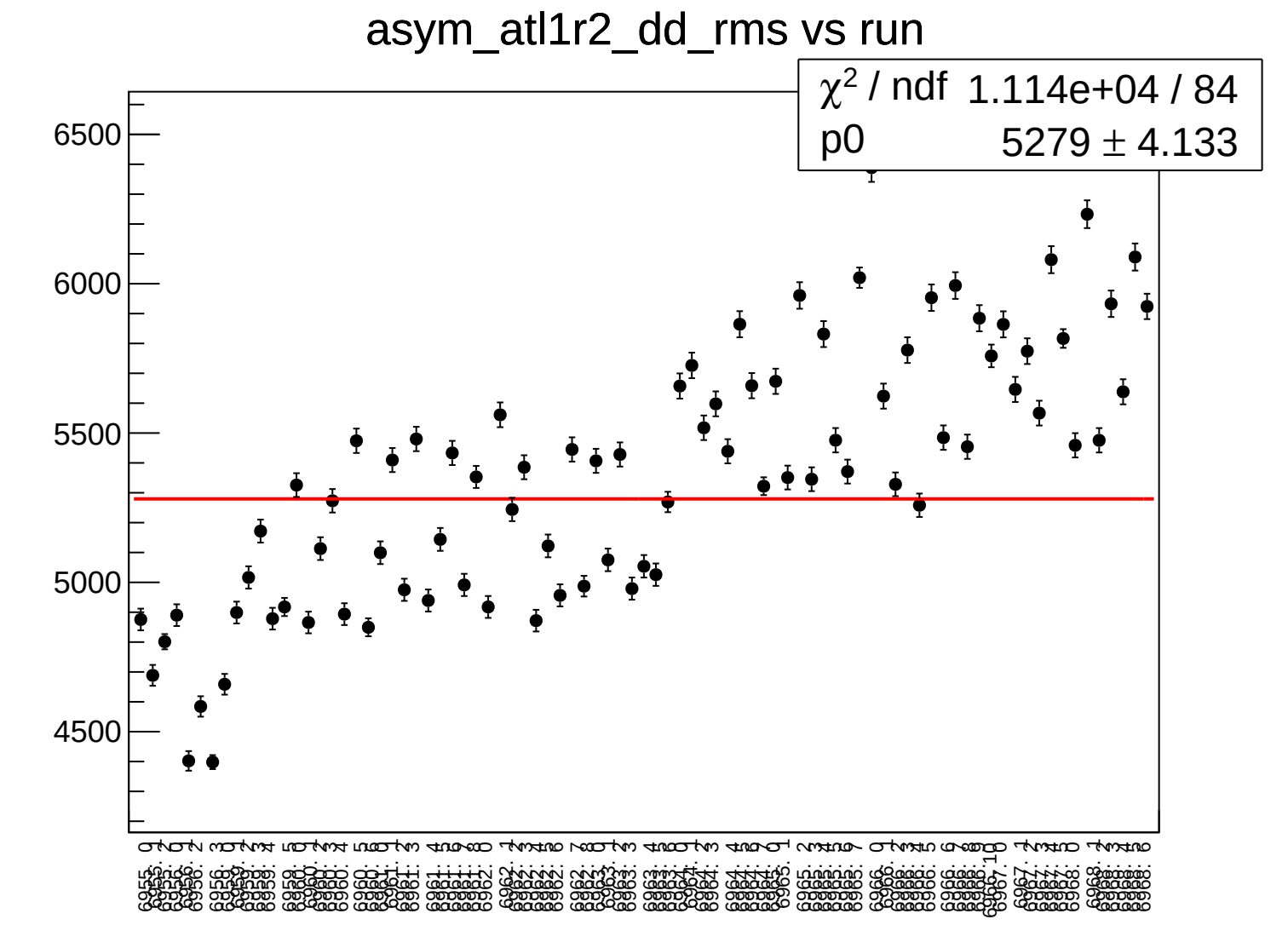

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.6 / 84
p0 2730 ± 5832
pull
Entries 85
Mean 31.81
Std Dev 62.51

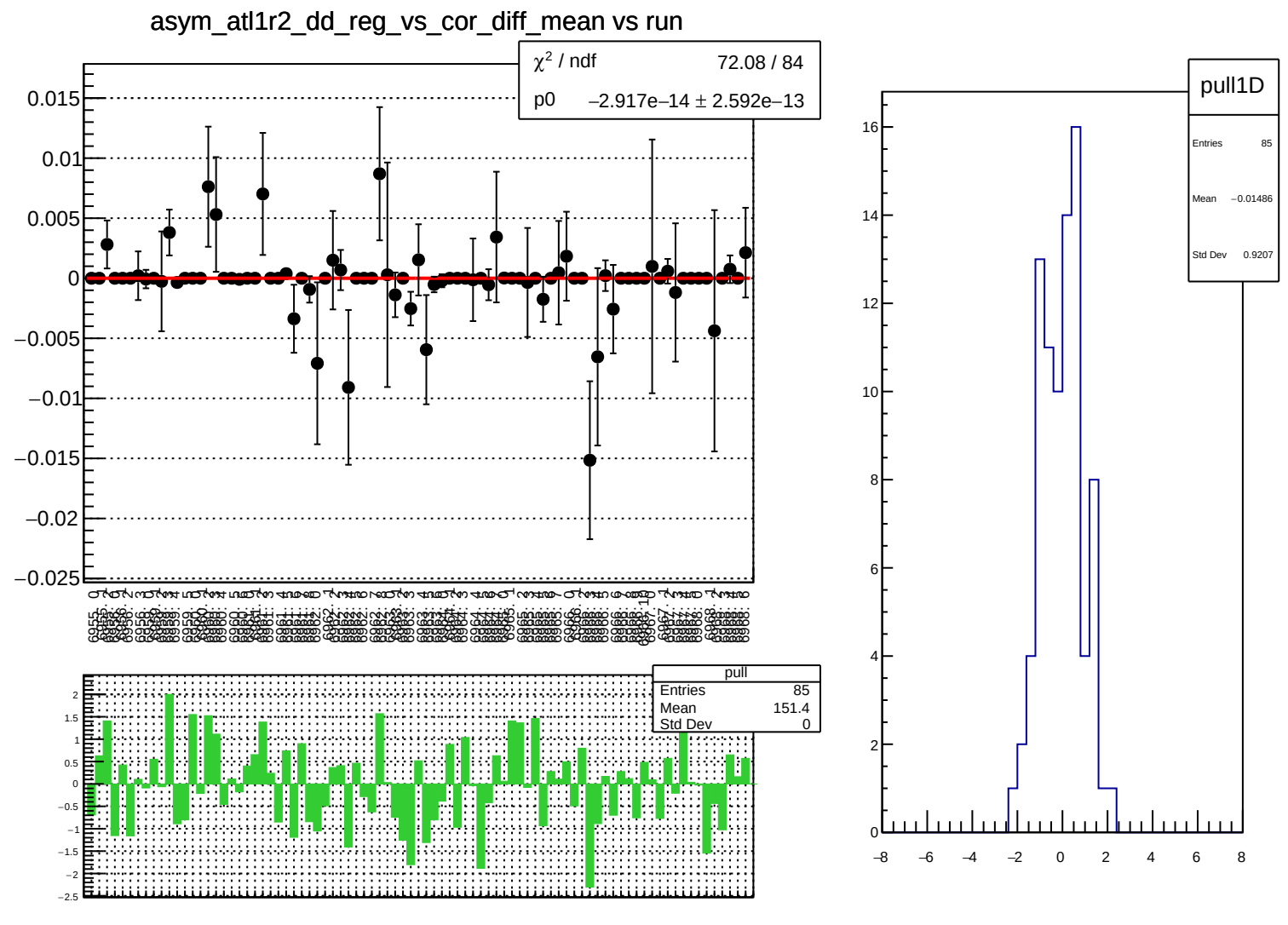

pull1D
Entries 85
Mean 0.01235
Std Dev 1.088

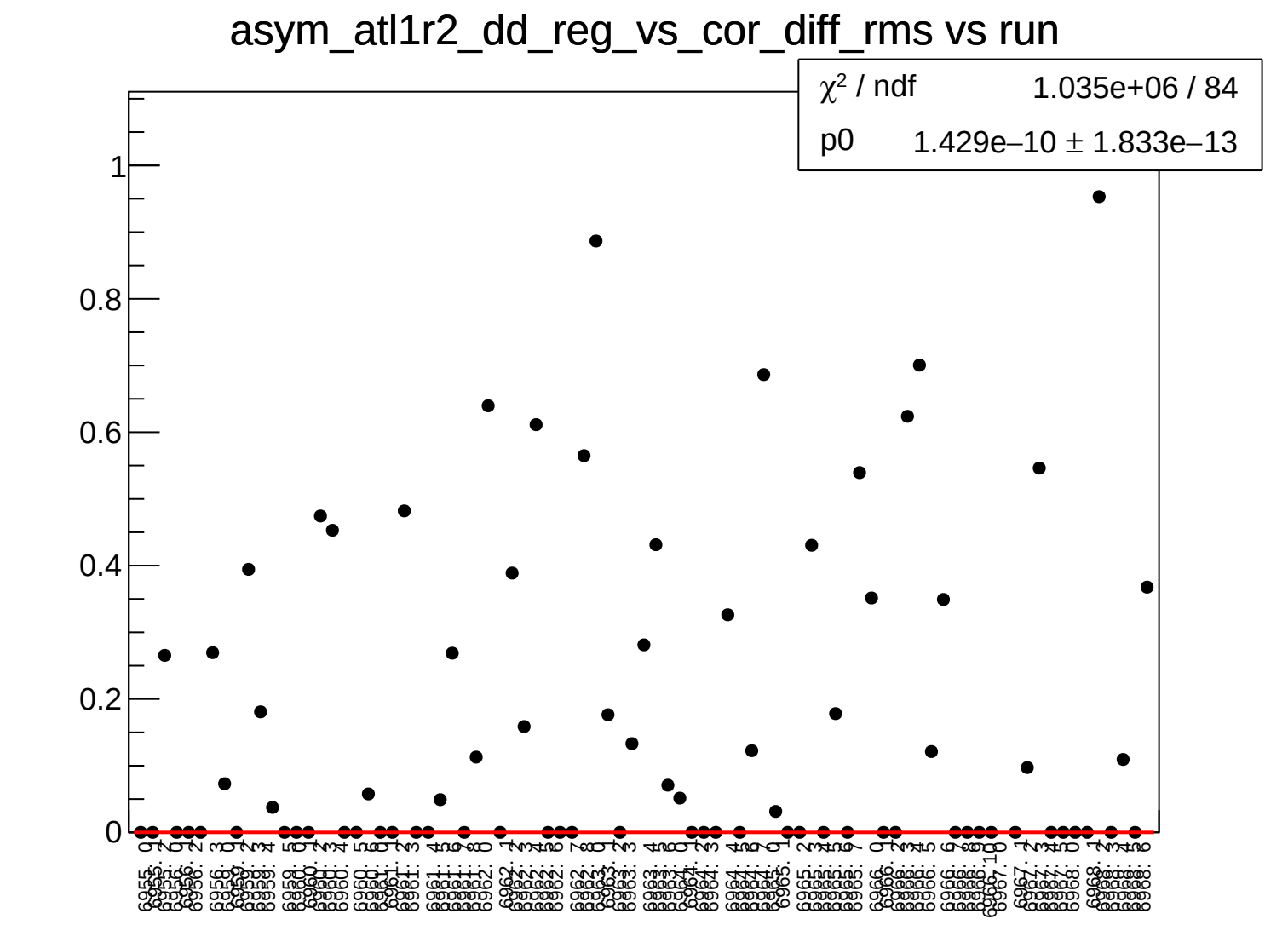

asym_atl1r2_dd_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 1.428e+04 / 84
p0 5262 ± 4.124
6500
6000
5500
5000
4500

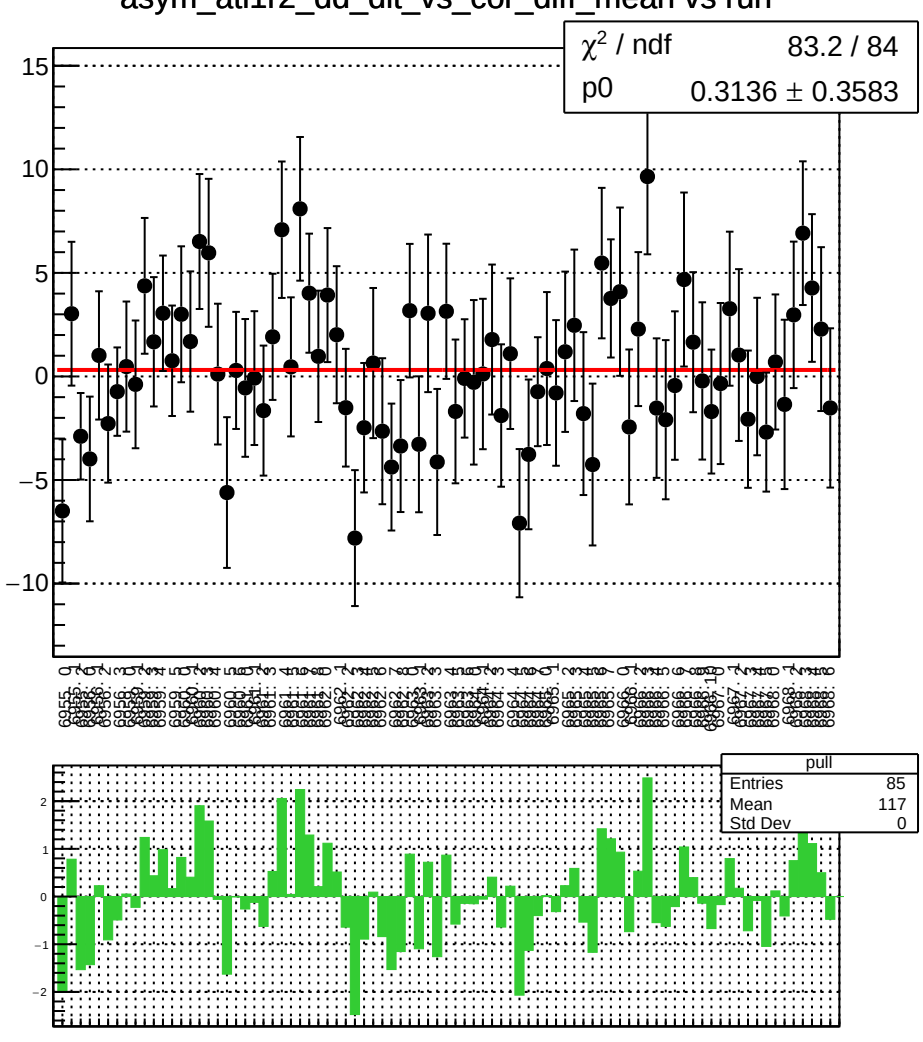

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 111.4 / 84
p0 564.4 ± 5845
200
100
0
−100
−200
pull
Entries 85
Mean −308.4
Std Dev 0
2
1
0
−1
−2
−3

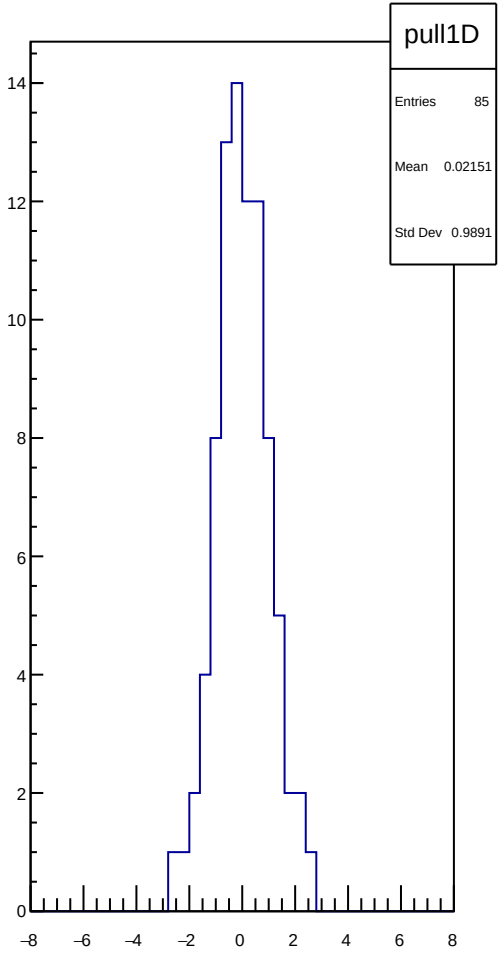

pull1D
Entries 85
Mean −0.005386
Std Dev 1.145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

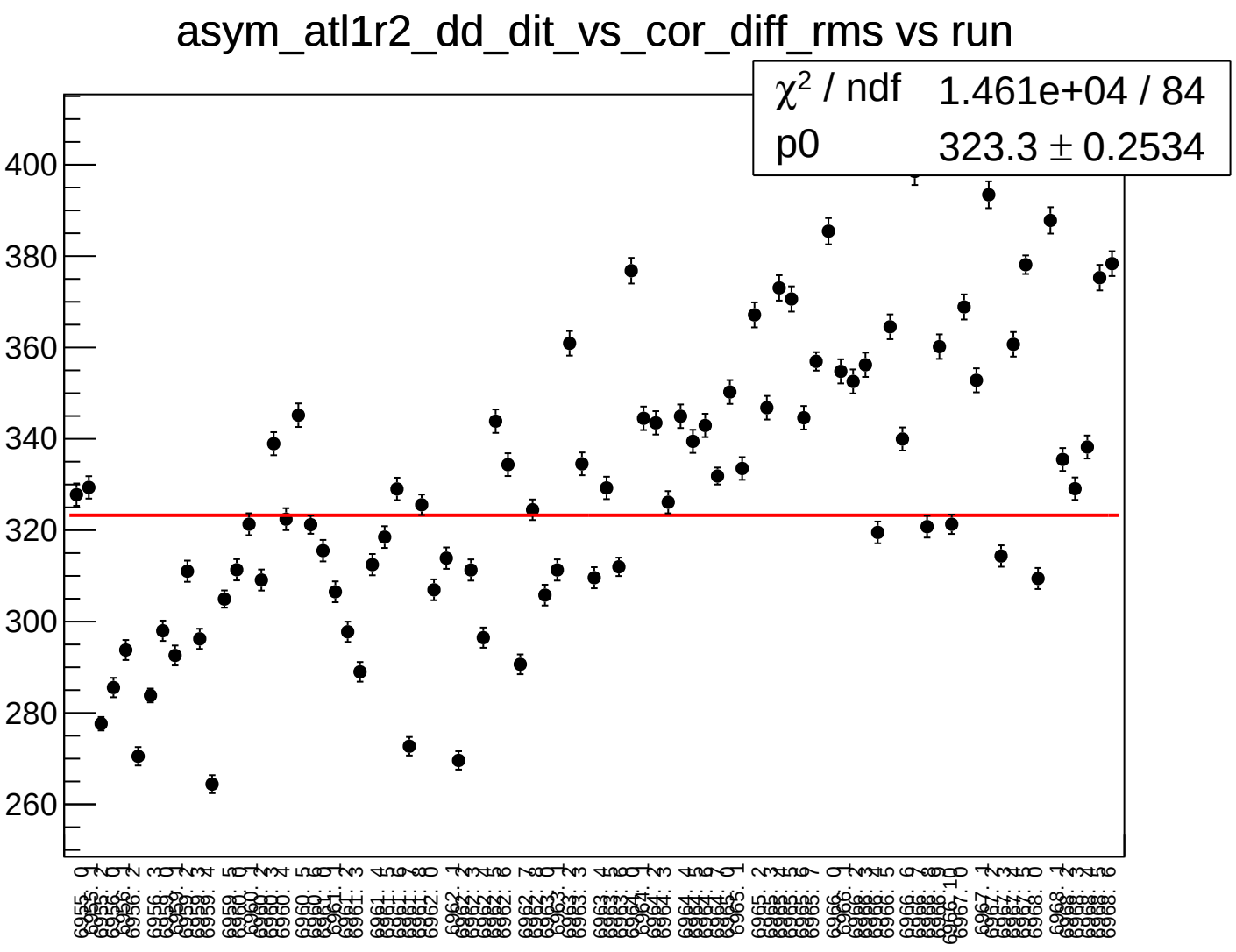

asym_atl1r2_dd_rms vs run
χ² / ndf 1.114e+04 / 84
p0 5279 ± 4.133
6500
6000
5500
5000
4500

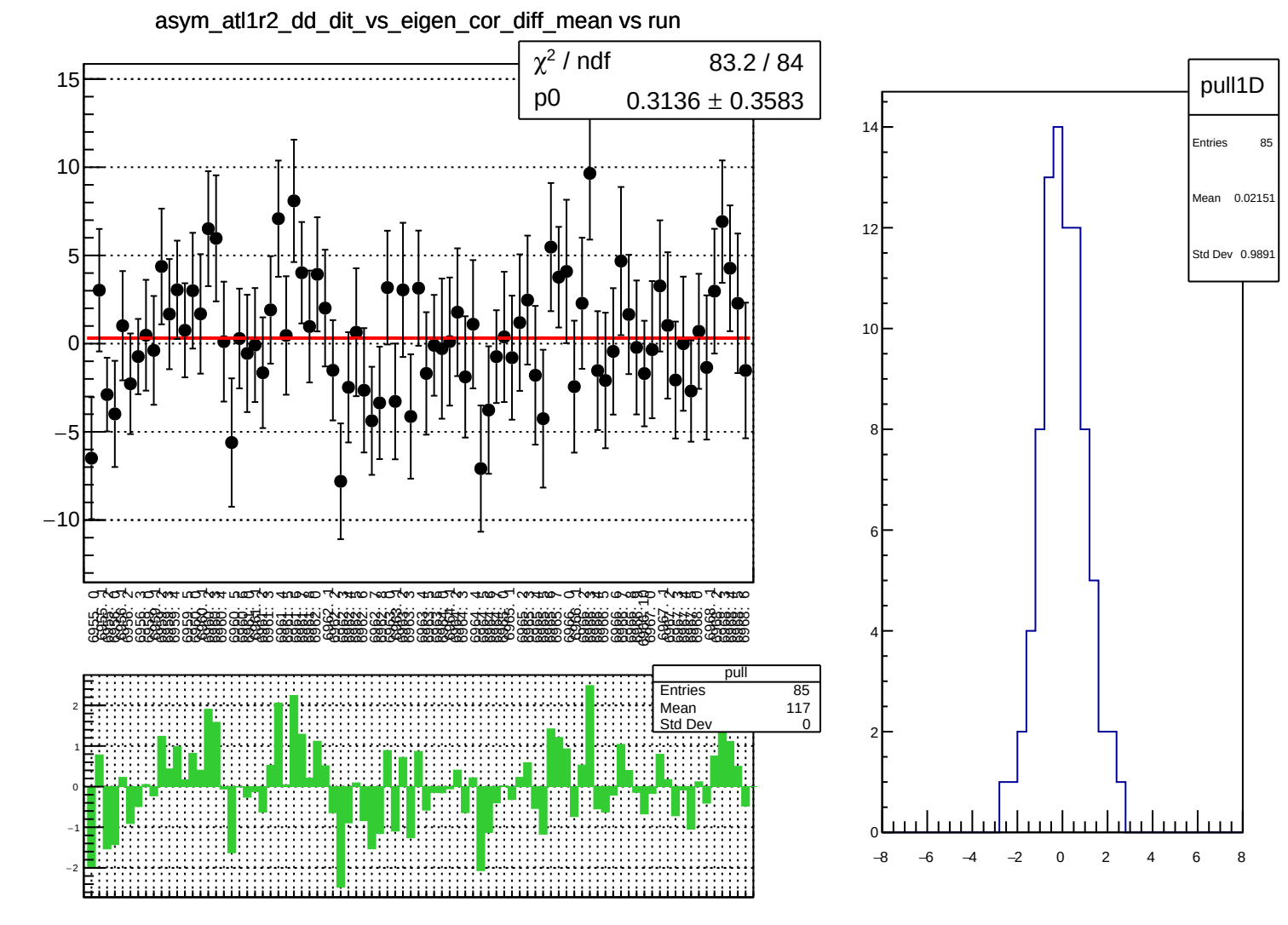

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.08 / 84
p0 −2.917e−14 ± 2.592e−13
pull
Entries 85
Mean 151.4
Std Dev 0
pull1D
Entries 85
Mean −0.01486
Std Dev 0.9207

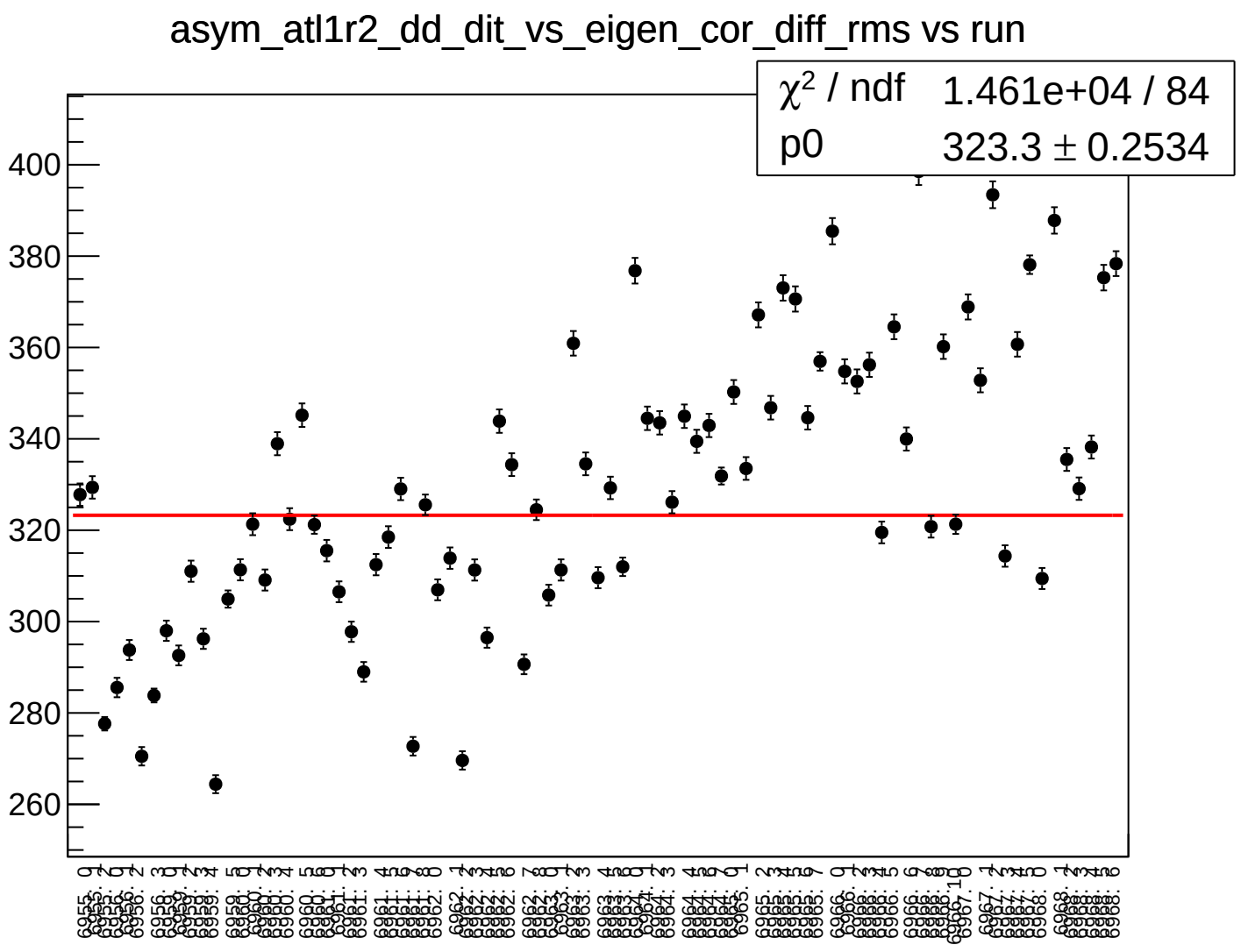

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.035e+06 / 84
p0 1.429e−10 ± 1.833e−13
1
0.8
0.6
0.4
0.2
0

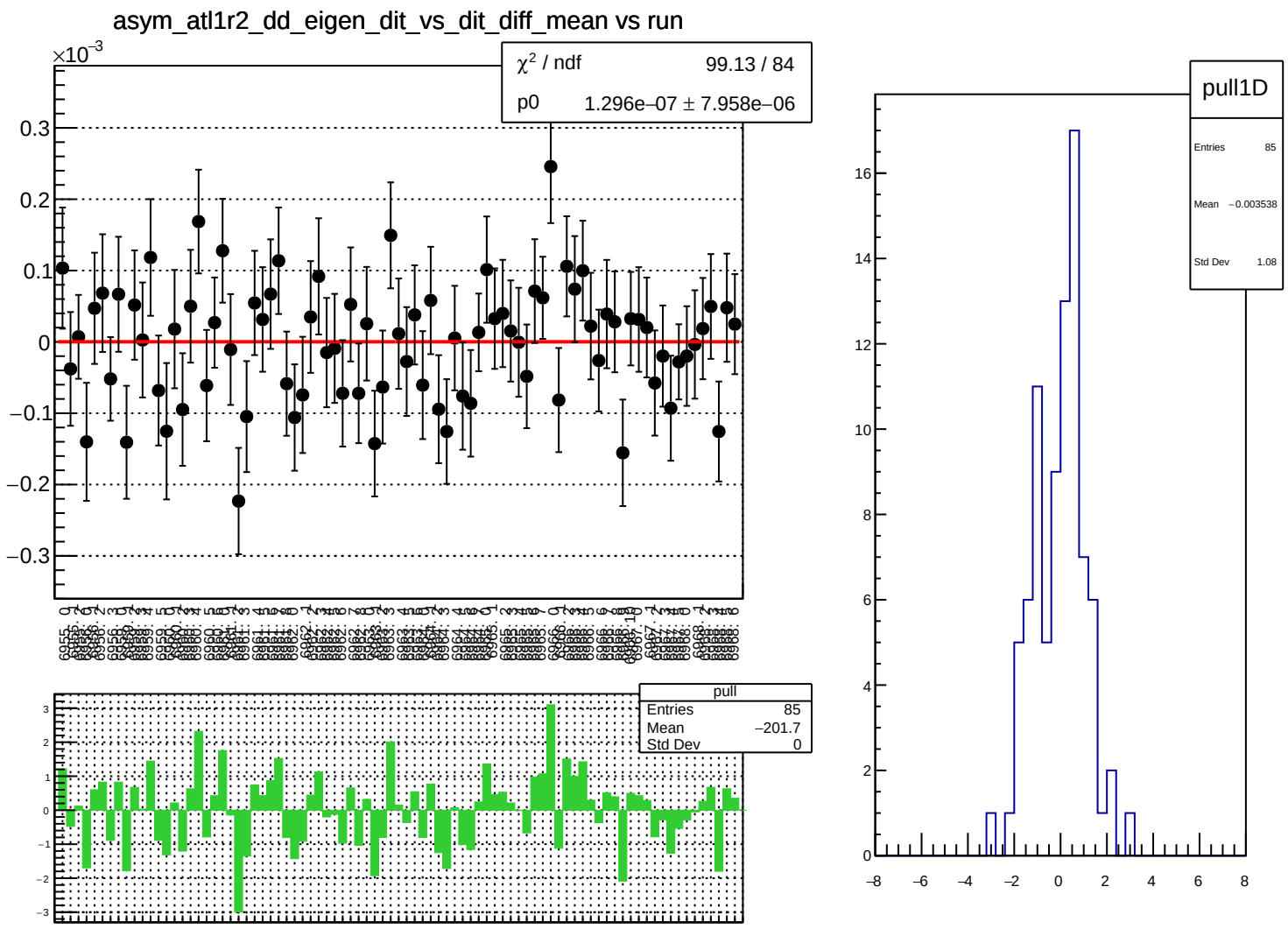

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.2 / 84
p0 0.3136 ± 0.3583
pull
Entries 85
Mean 117
Std Dev 0

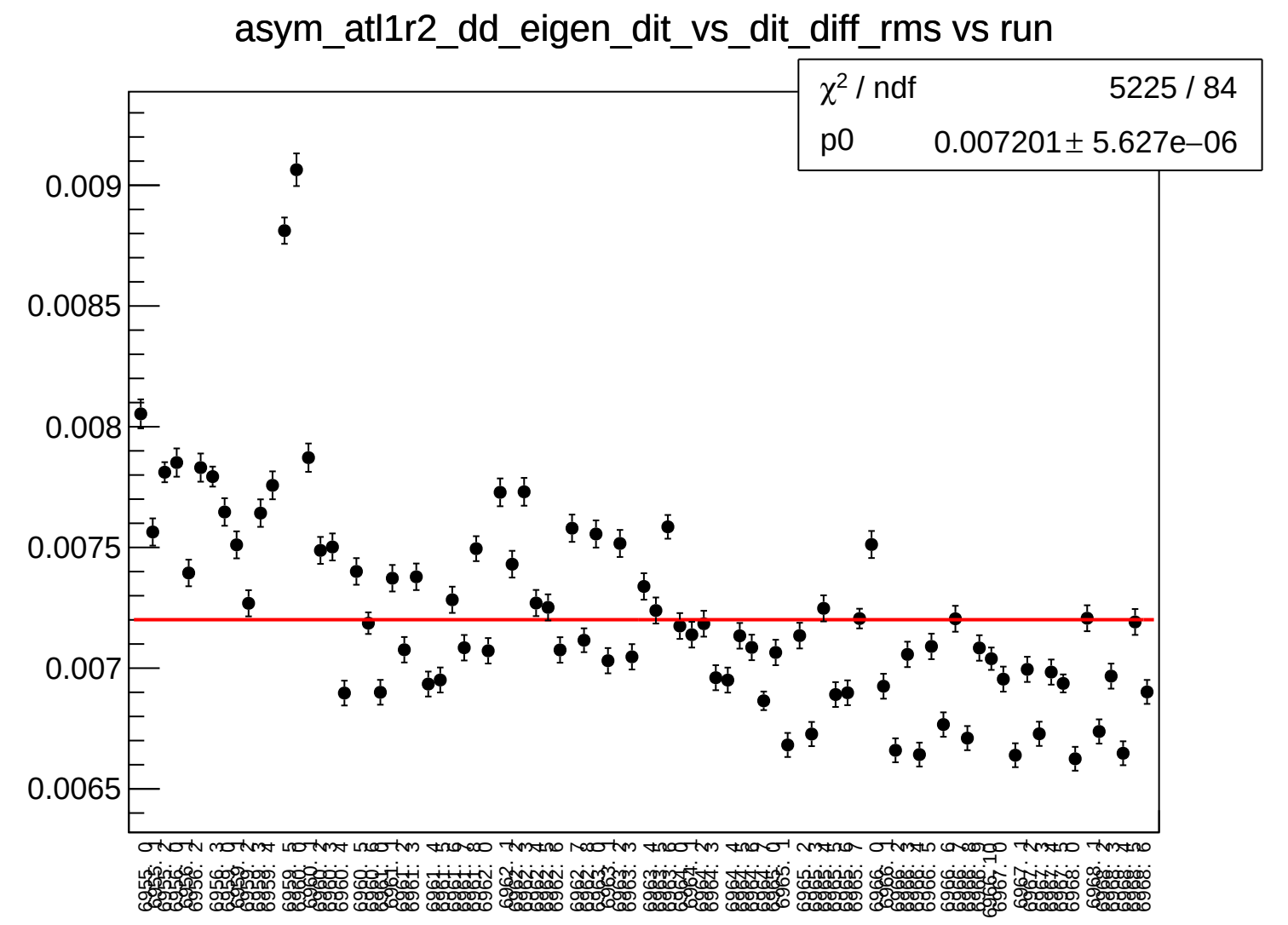

pull1D
Entries 85
Mean 0.02151
Std Dev 0.9891

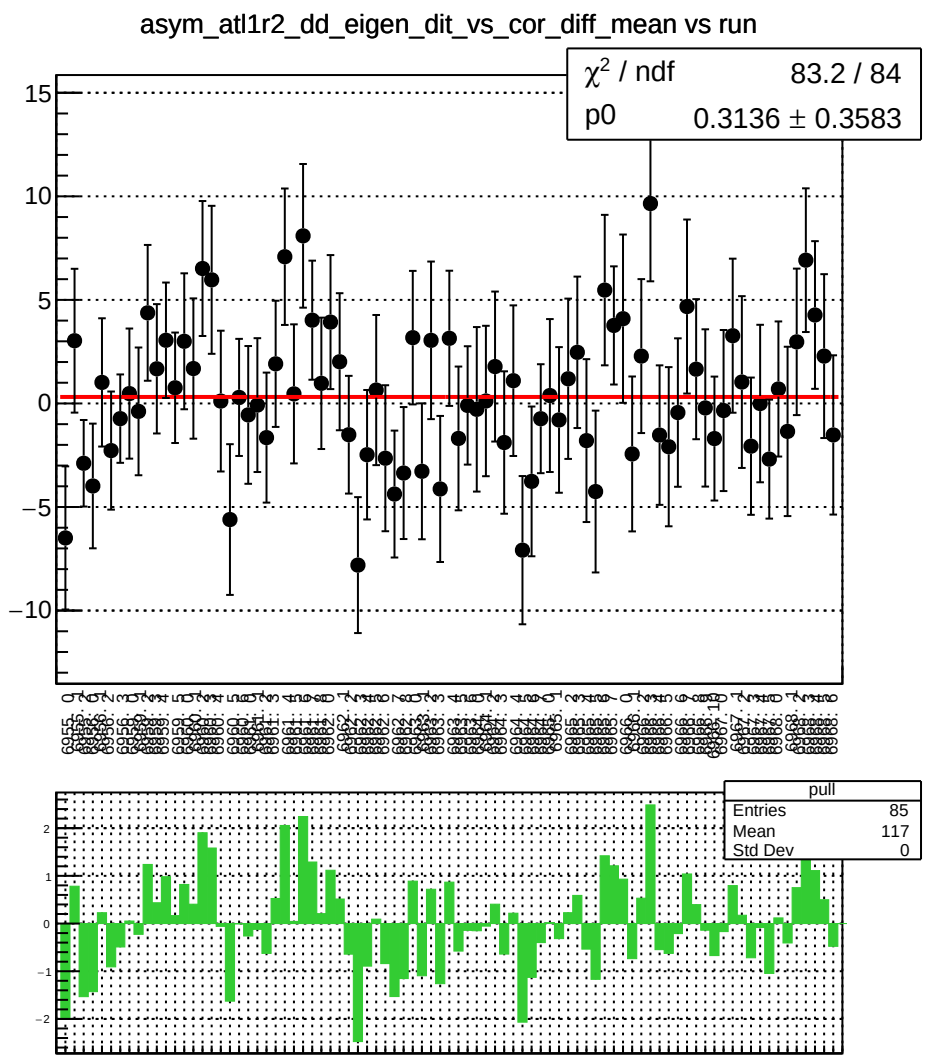

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.461e+04 / 84
p0 323.3 ± 0.2534
400
380
360
340
320
300
280
260

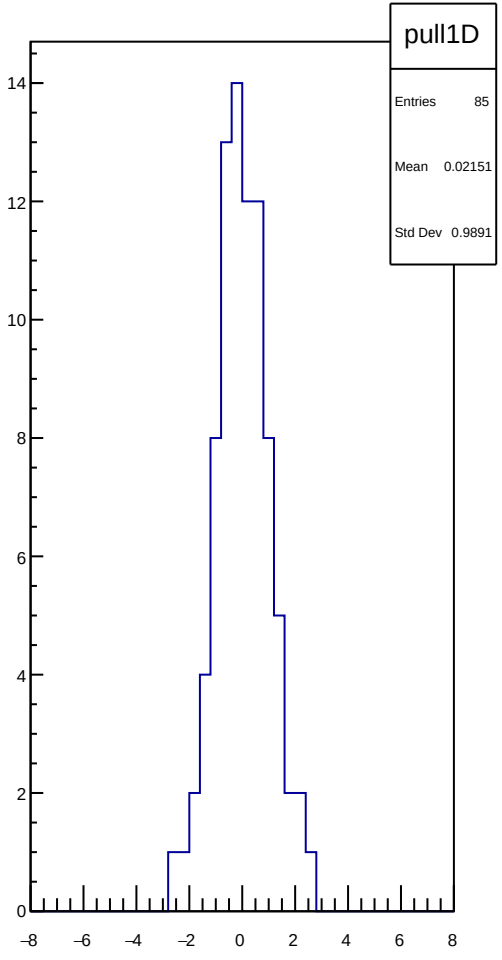

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.2 / 84
p0 0.3136 ± 0.3583
pull
Entries 85
Mean 117
Std Dev 0
pull1D
Entries 85
Mean 0.02151
Std Dev 0.9891

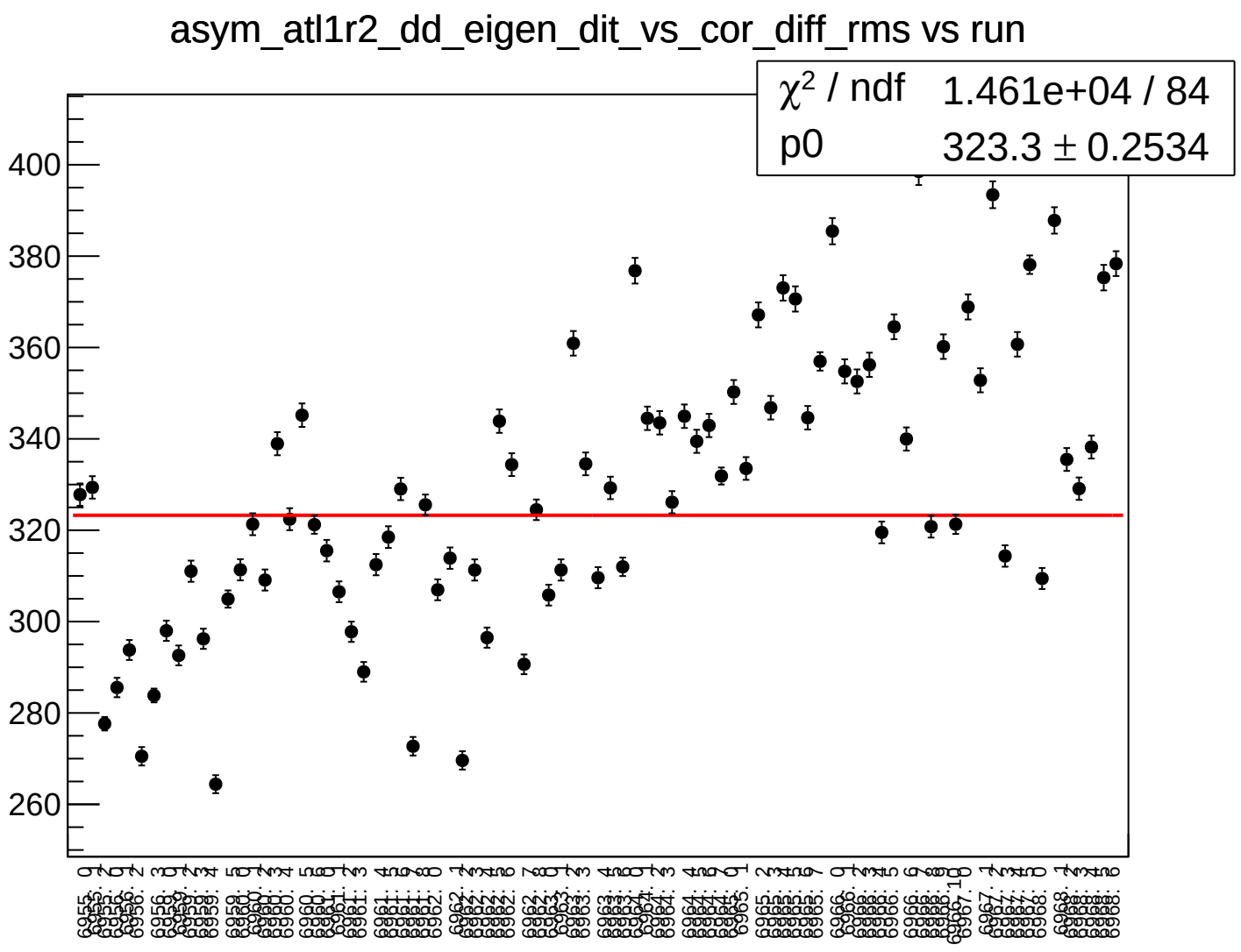

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.461e+04 / 84
p0 323.3 ± 0.2534
400
380
360
340
320
300
280
260

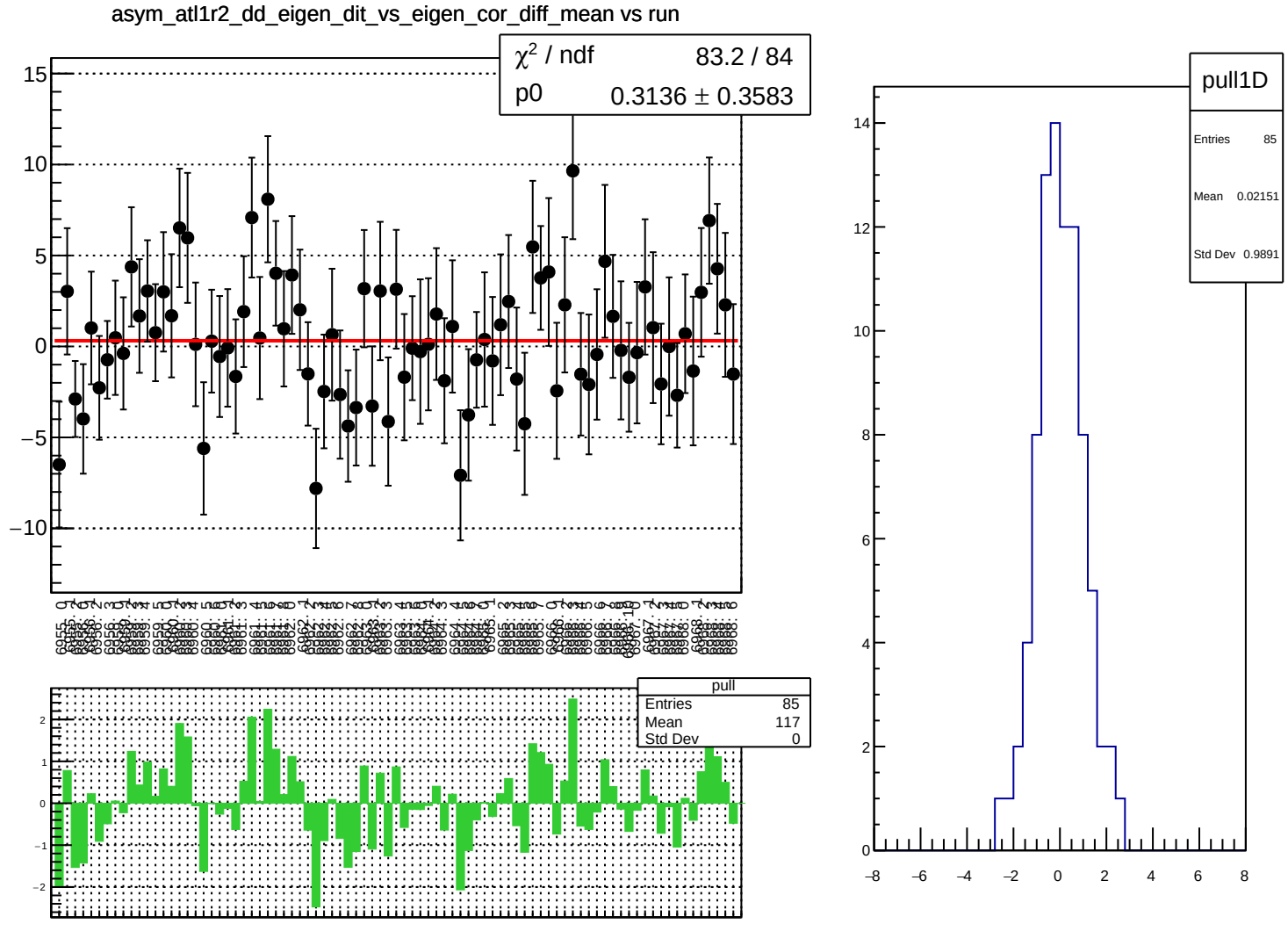

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 99.13 / 84
p0 1.296e−07 ± 7.958e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 85
Mean −201.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.003538
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

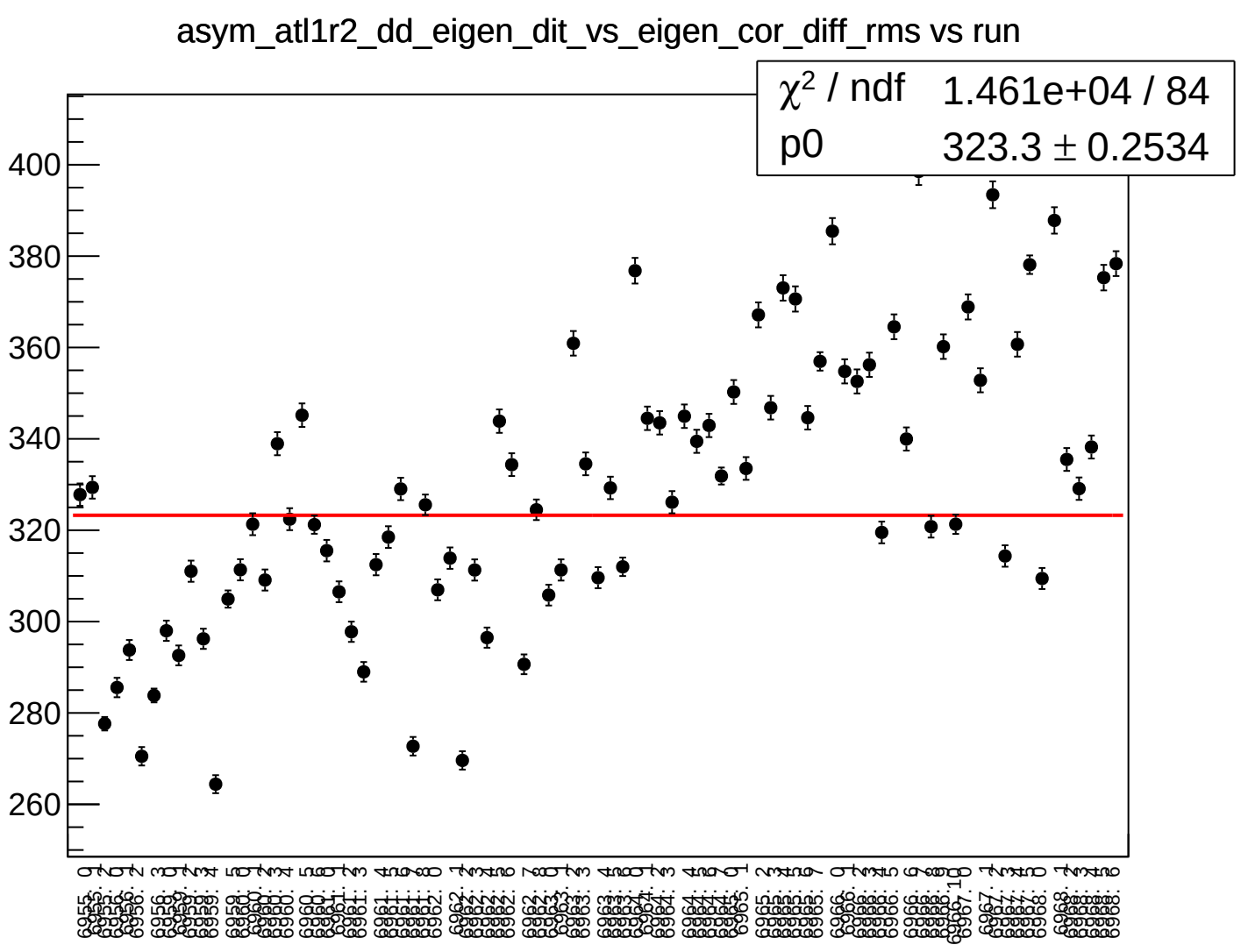

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5225 / 84
p0 0.007201 ± 5.627e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065

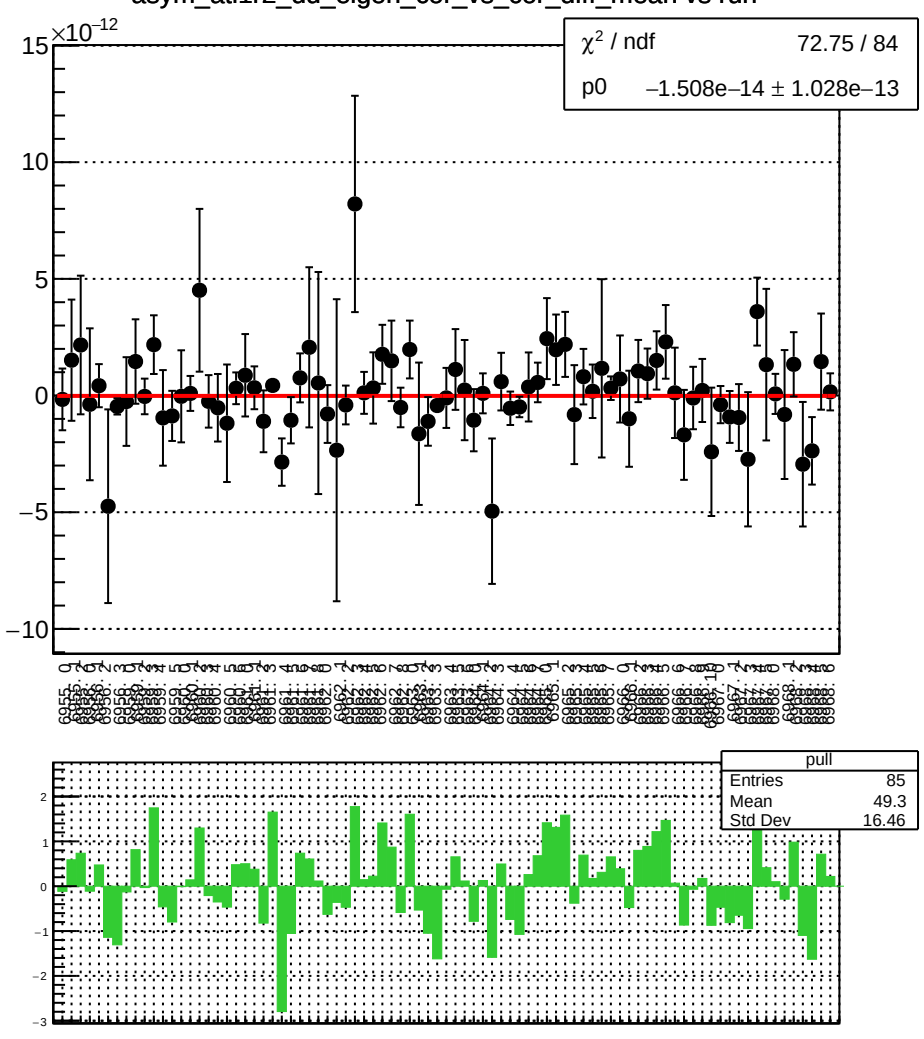

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.2 / 84
p0 0.3136 ± 0.3583
15
10
5
0
−5
−10
pull
Entries 85
Mean 117
Std Dev 0
2
1
0
−1
−2

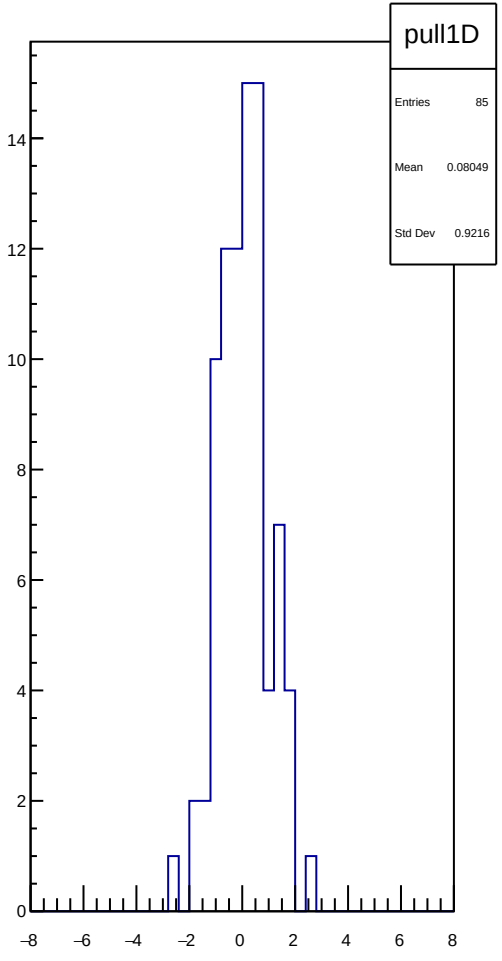

pull1D
Entries 85
Mean 0.02151
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

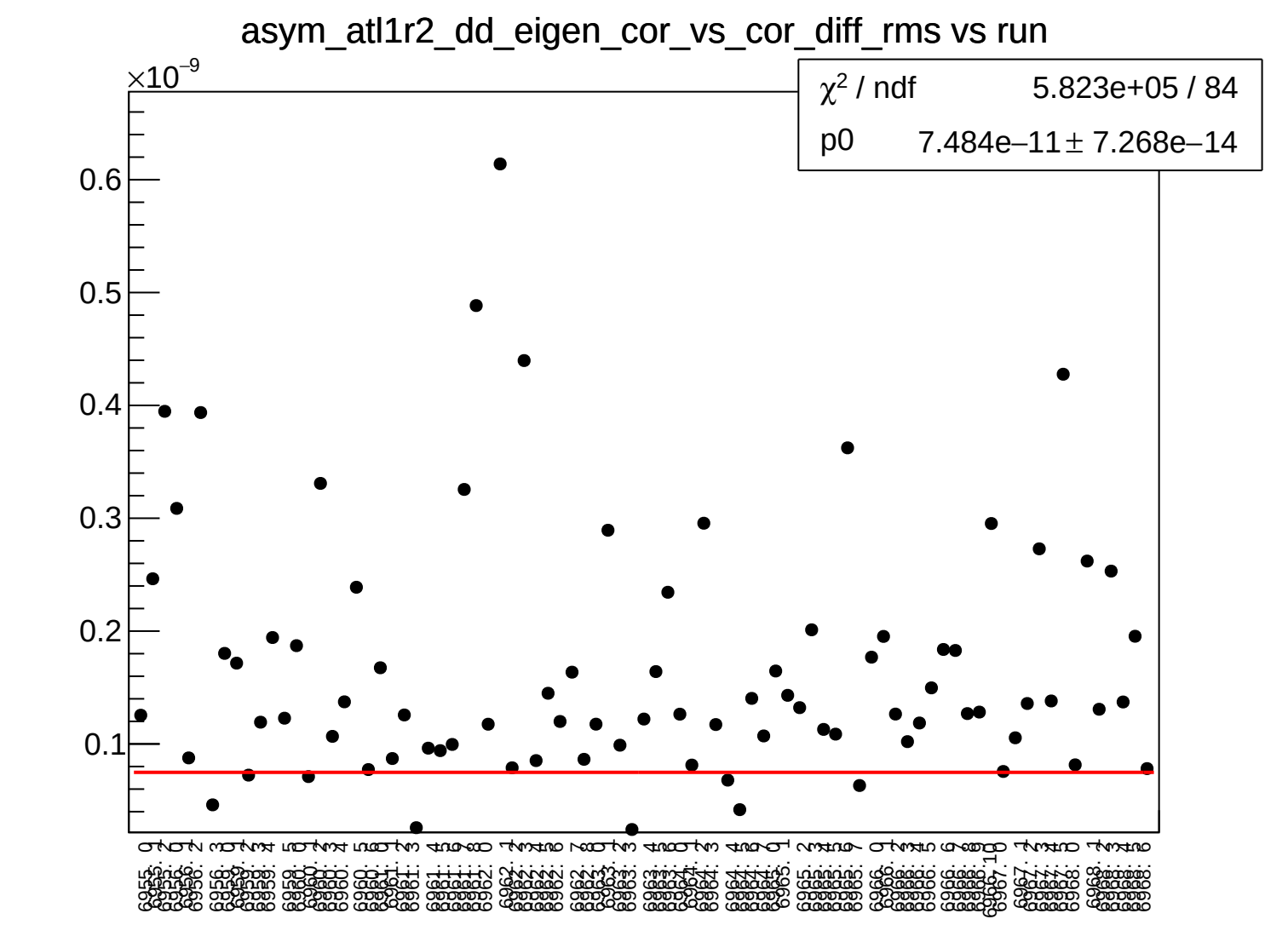

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.461e+04 / 84
p0 323.3 ± 0.2534
400
380
360
340
320
300
280
260

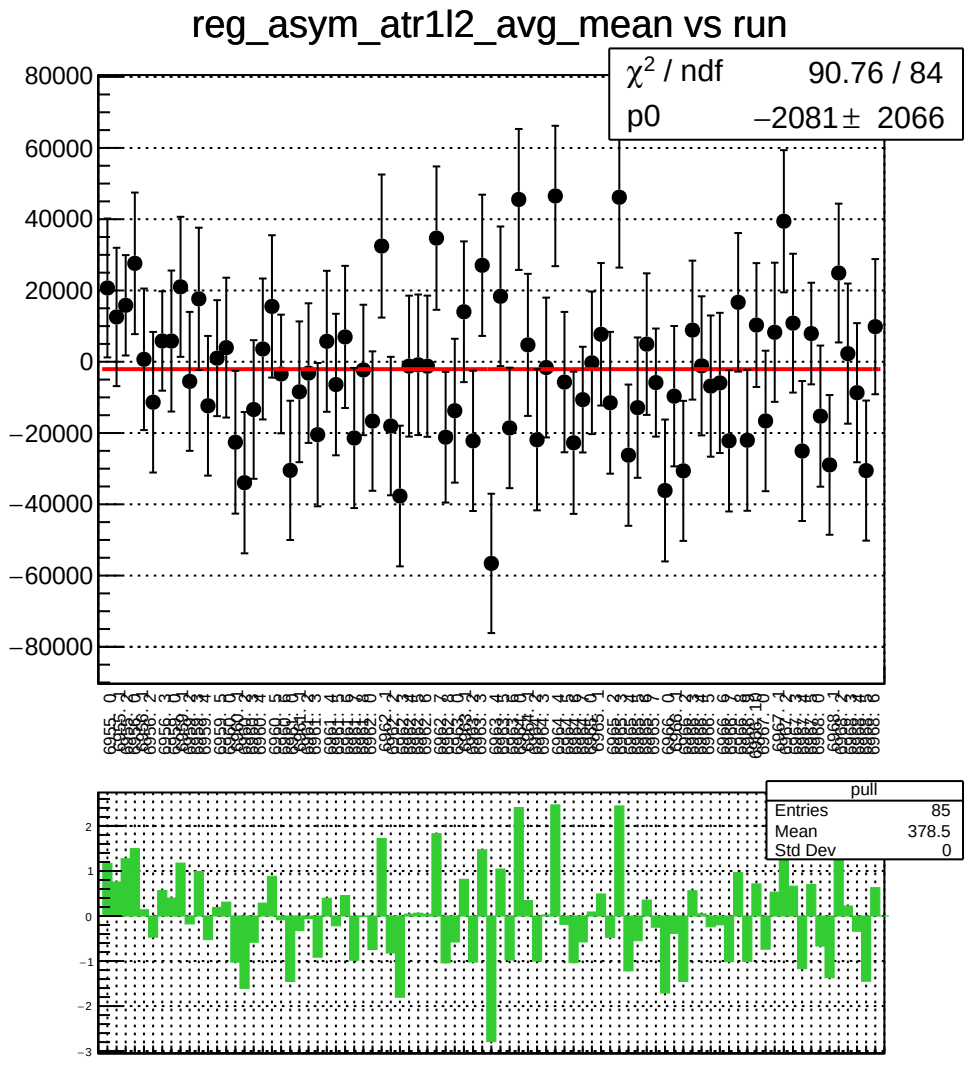

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.2 / 84
p0 0.3136 ± 0.3583
pull
Entries 85
Mean 117
Std Dev 0
pull1D
Entries 85
Mean 0.02151
Std Dev 0.9891

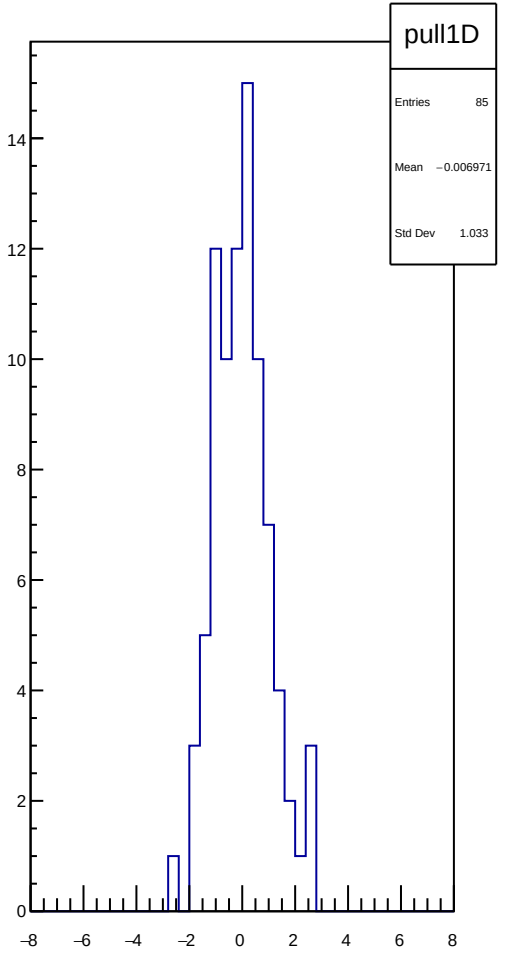

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.461e+04 / 84
p0 323.3 ± 0.2534
400
380
360
340
320
300
280
260

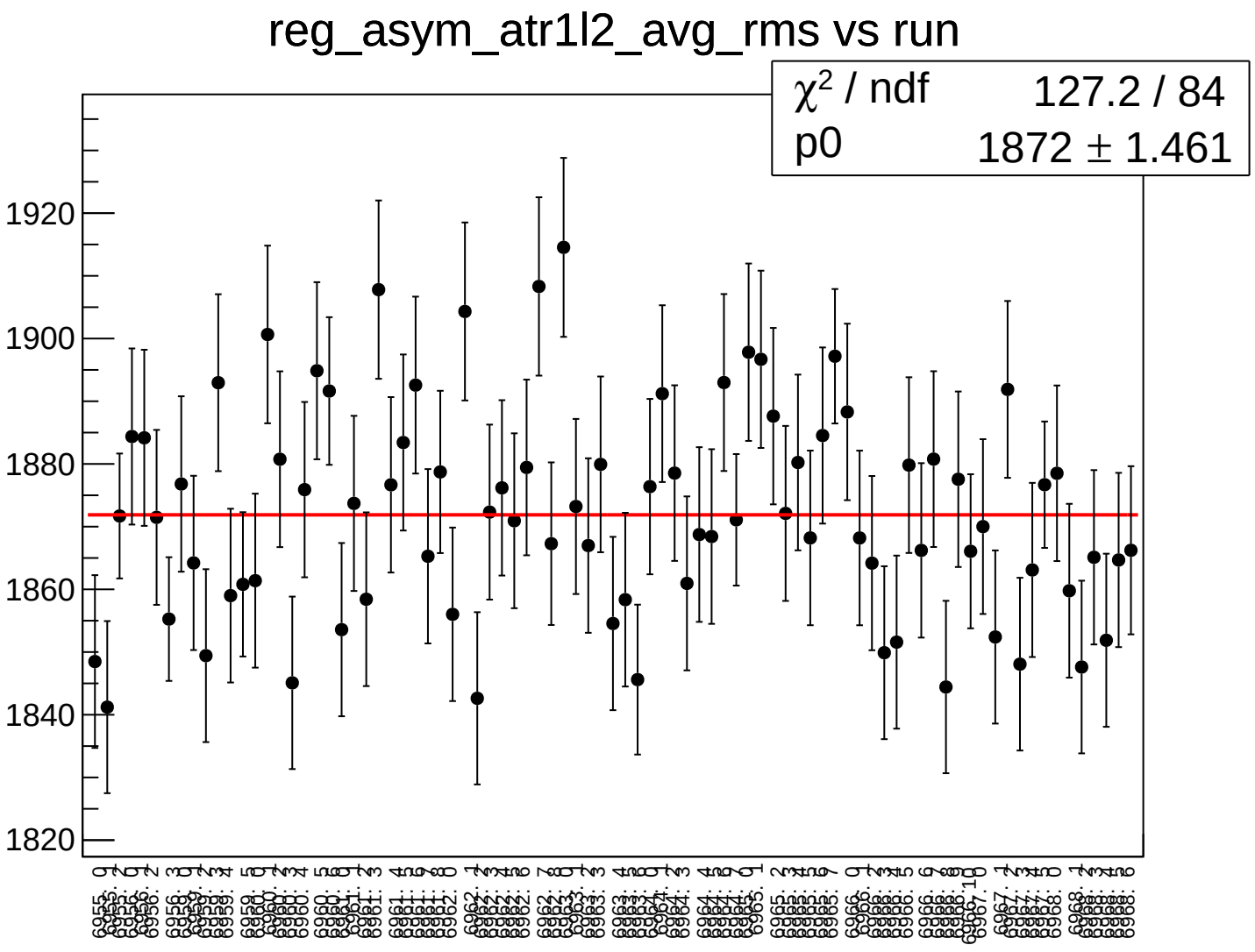

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
χ² / ndf 72.75 / 84
p0 −1.508e−14 ± 1.028e−13
×10⁻¹²
pull
Entries 85
Mean 49.3
Std Dev 16.46

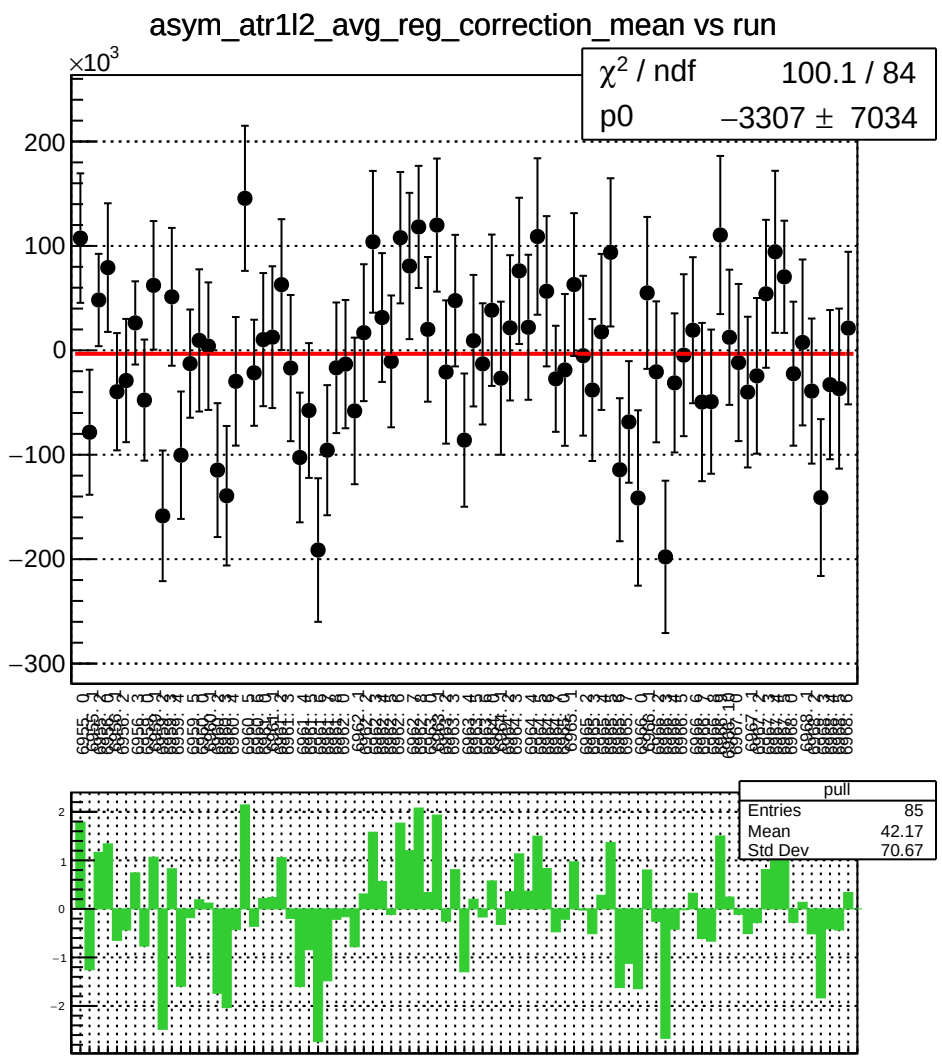

pull1D
Entries 85
Mean 0.08049
Std Dev 0.9216

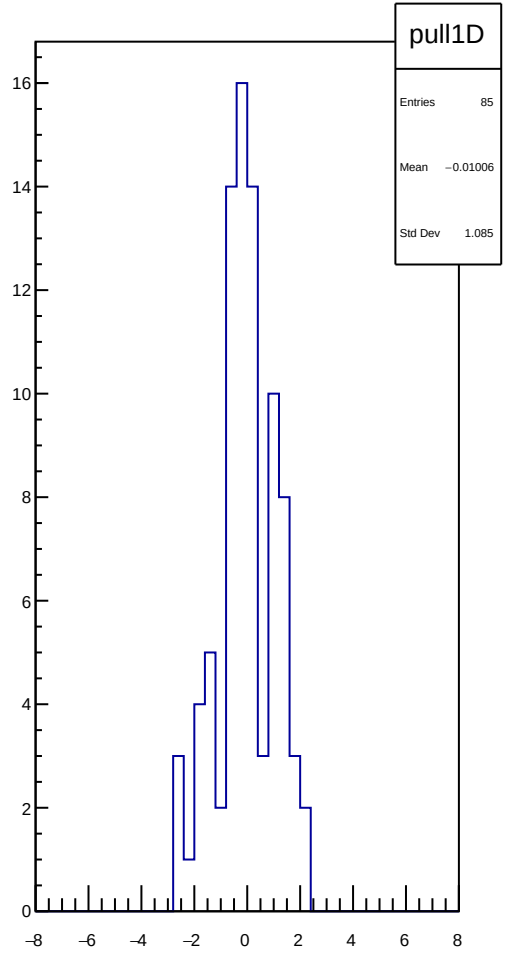

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.823e+05 / 84
p0 7.484e−11 ± 7.268e−14
0.6
0.5
0.4
0.3
0.2
0.1

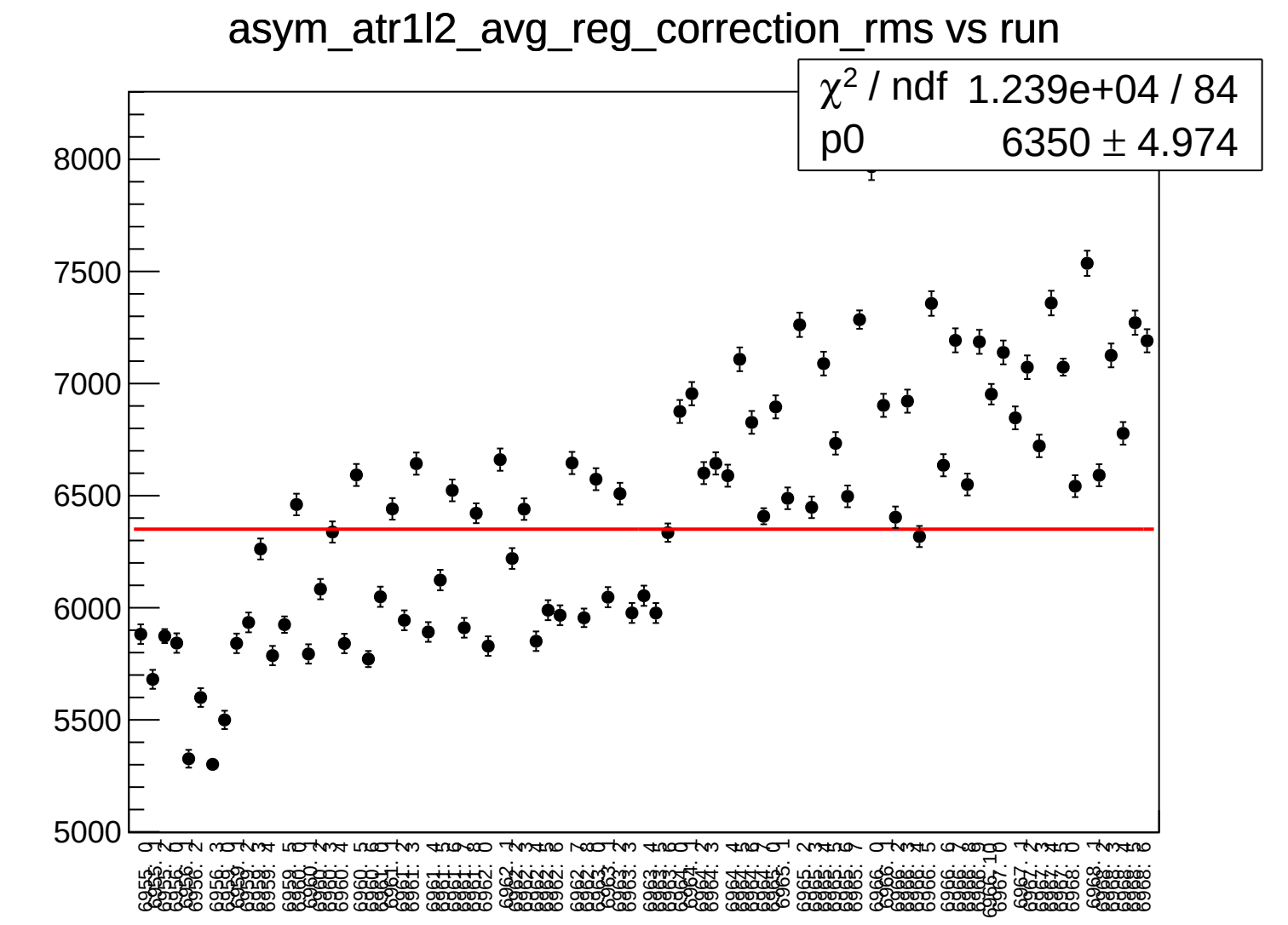

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 90.76 / 84
p0 −2081 ± 2066
pull
Entries 85
Mean 378.5
Std Dev 0

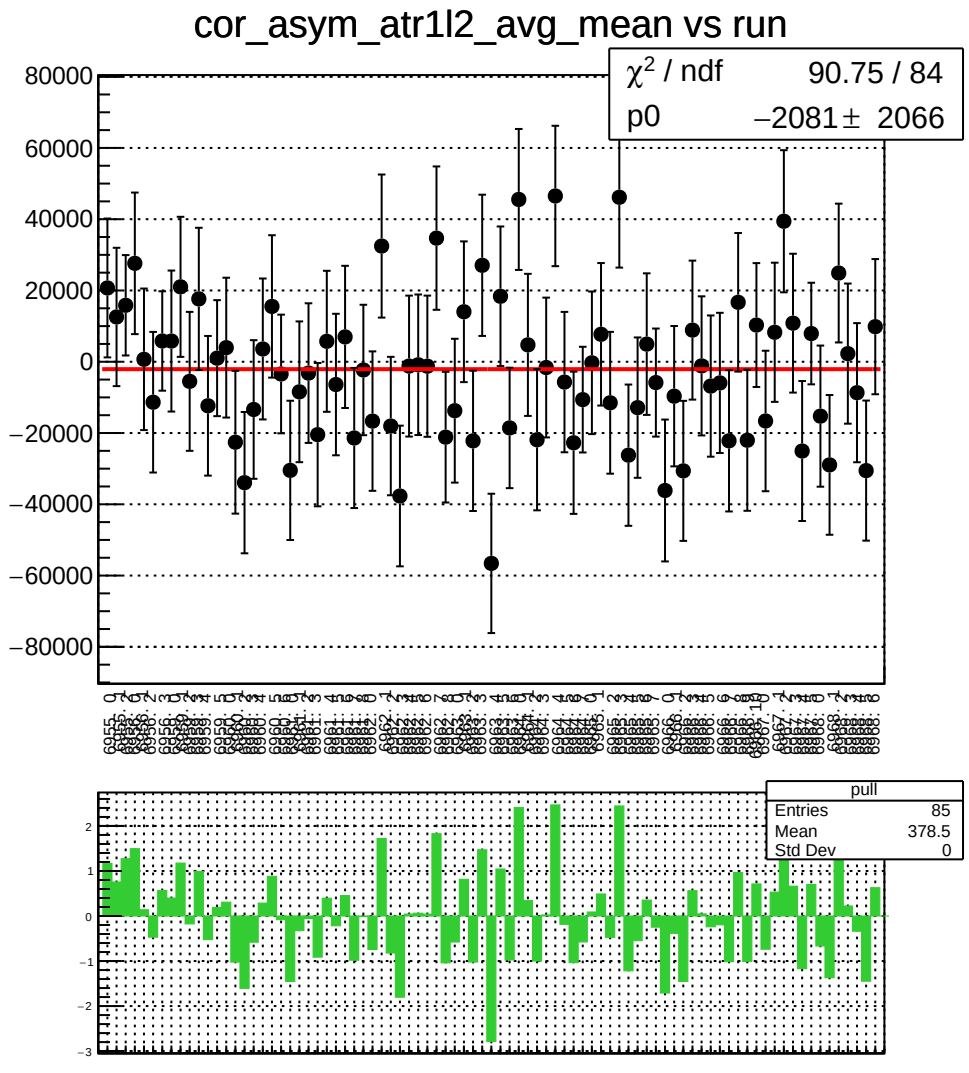

pull1D
Entries 85
Mean −0.006971
Std Dev 1.033

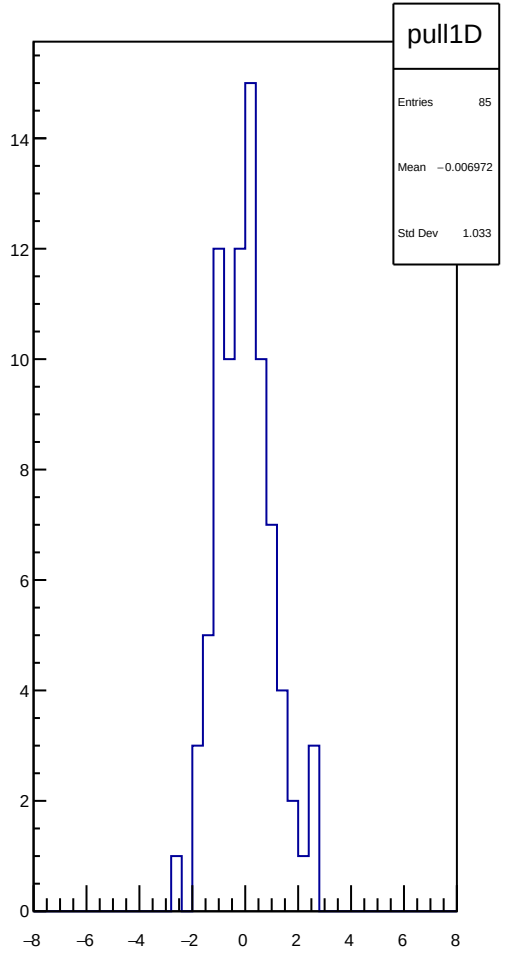

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 127.2 / 84
p0 1872 ± 1.461
1920
1900
1880
1860
1840
1820

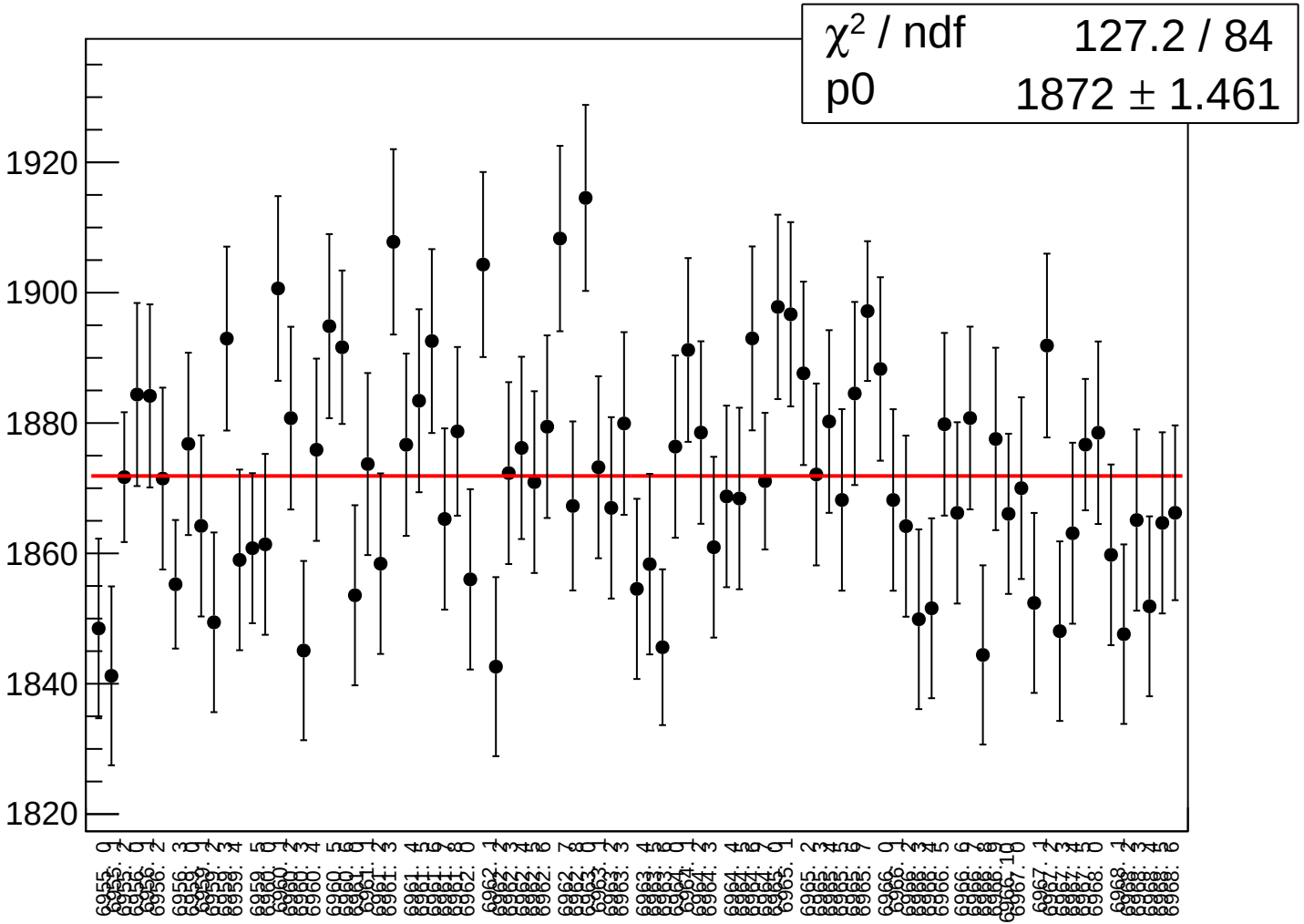

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.1 / 84
p0 −3307 ± 7034
200
100
0
−100
−200
−300
pull
Entries 85
Mean 42.17
Std Dev 70.67
2
1
0
−1
−2

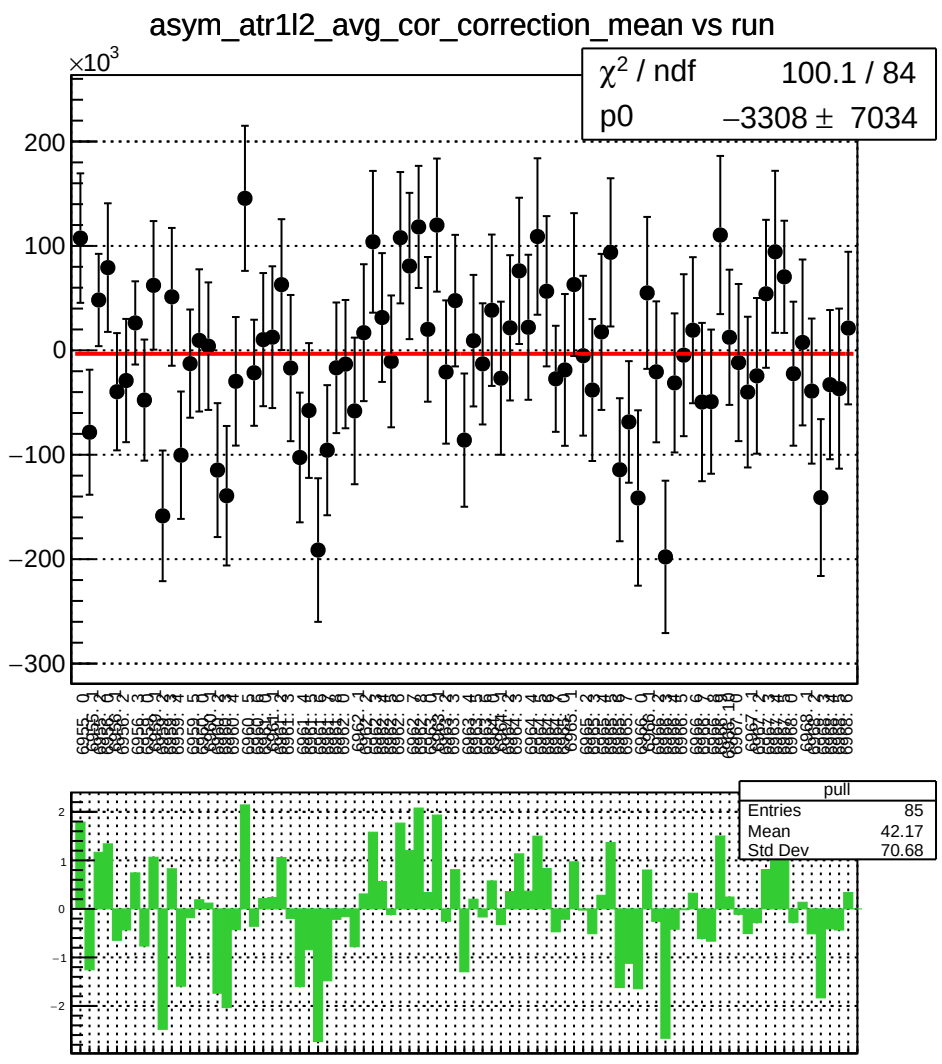

pull1D
Entries 85
Mean −0.01006
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

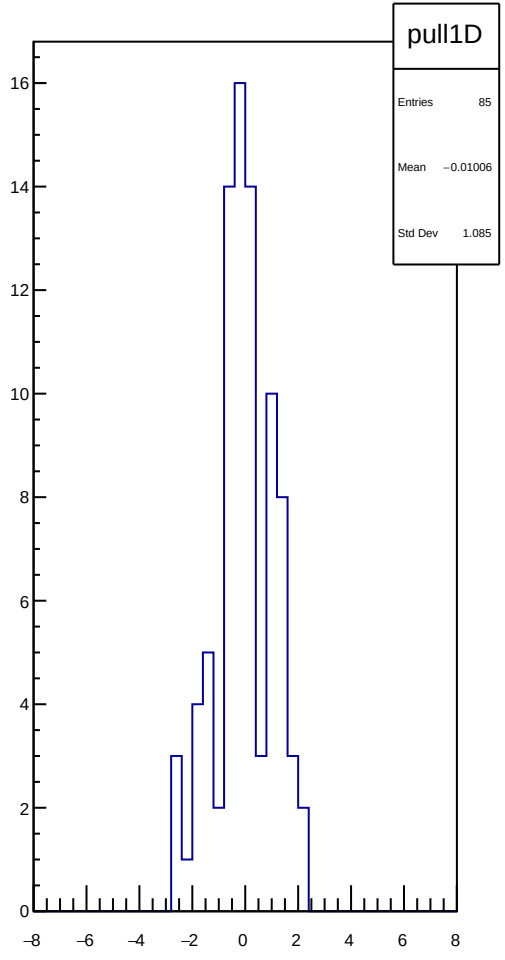

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1.239e+04 / 84
p0 6350 ± 4.974
8000
7500
7000
6500
6000
5500
5000

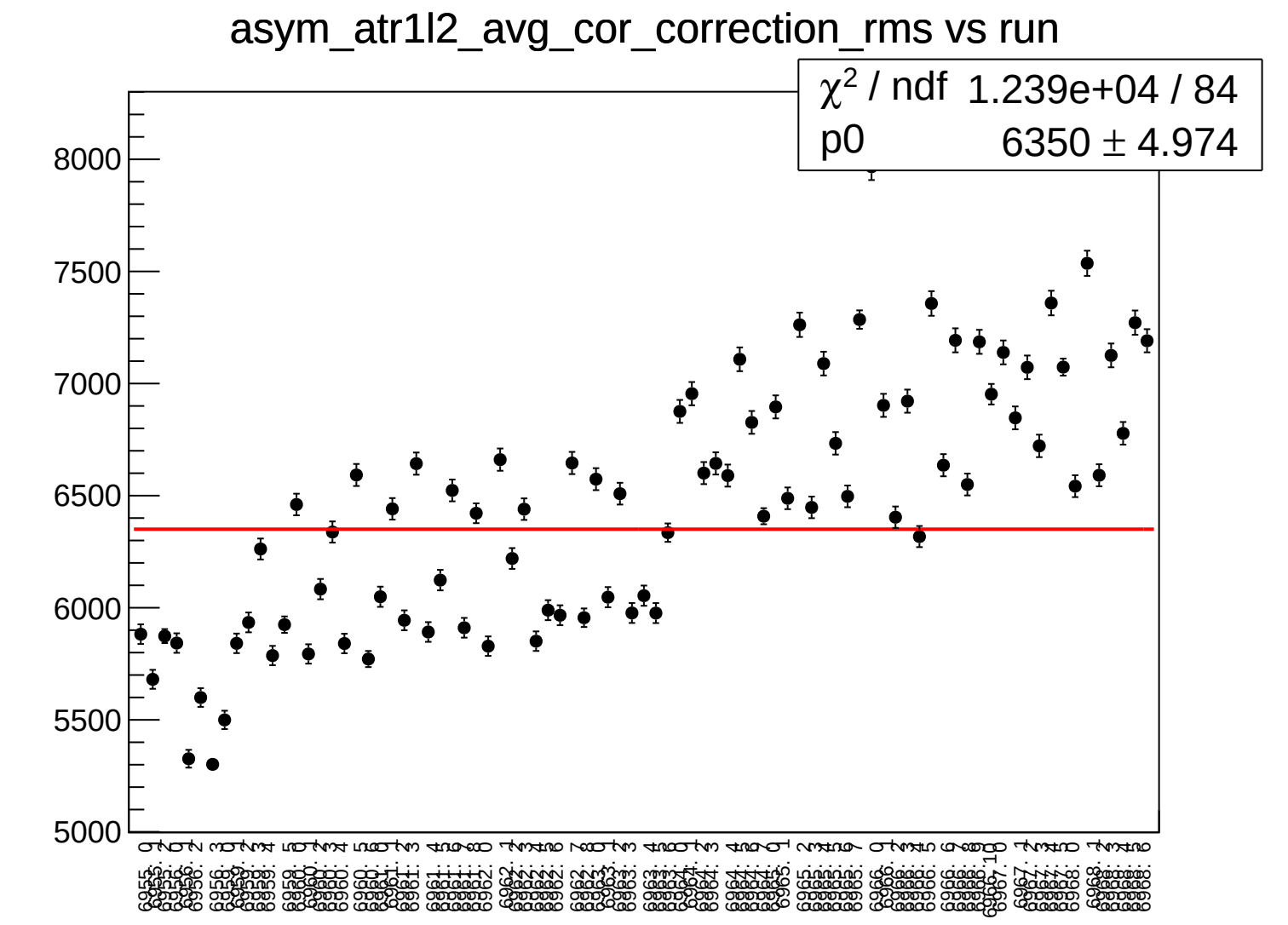

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 90.75 / 84
p0 −2081 ± 2066
pull
Entries 85
Mean 378.5
Std Dev 0

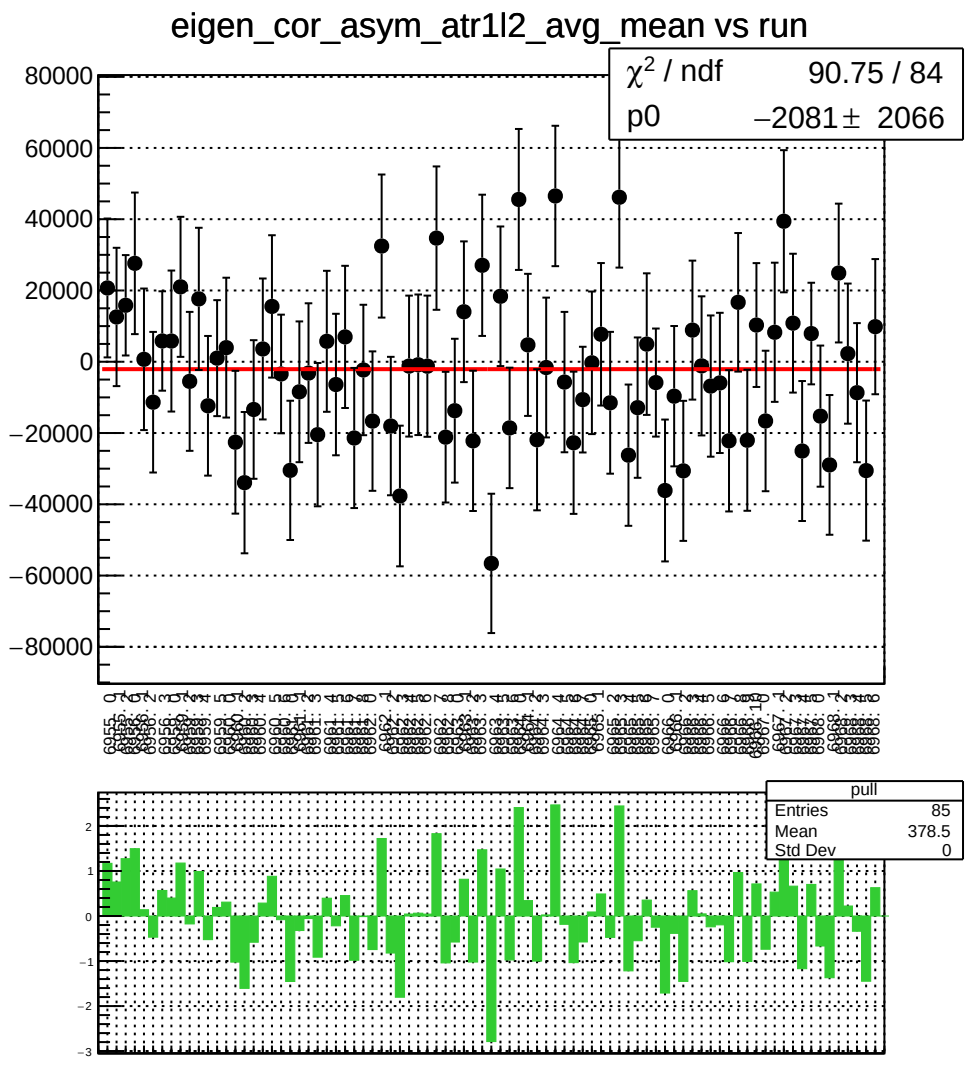

pull1D
Entries 85
Mean −0.006972
Std Dev 1.033

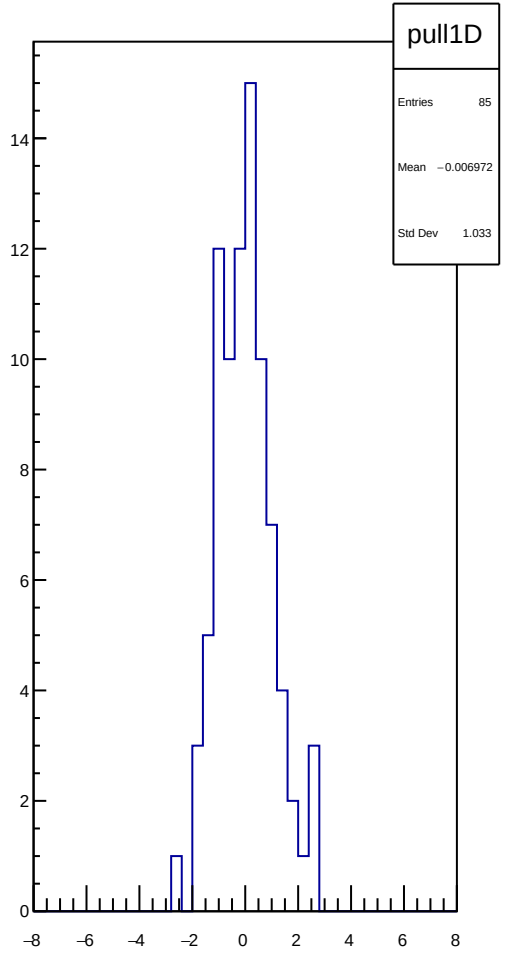

cor_asym_atr1l2_avg_rms vs run
$\chi^2$ / ndf 127.2 / 84
p0 1872 ± 1.461
1920
1900
1880
1860
1840
1820

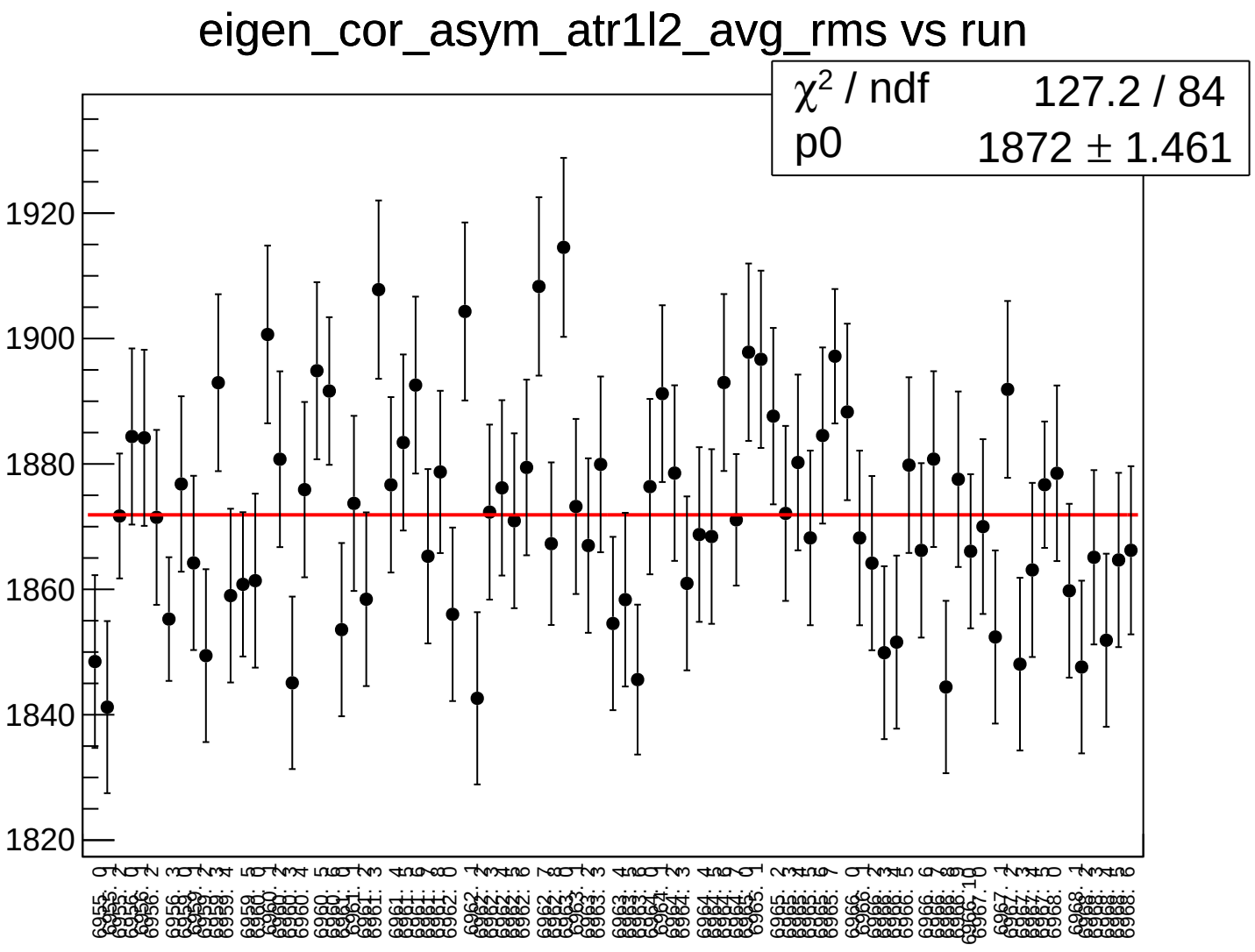

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.1 / 84
p0 −3308 ± 7034
200
100
0
−100
−200
−300
pull
Entries 85
Mean 42.17
Std Dev 70.68
2
1
0
−1
−2

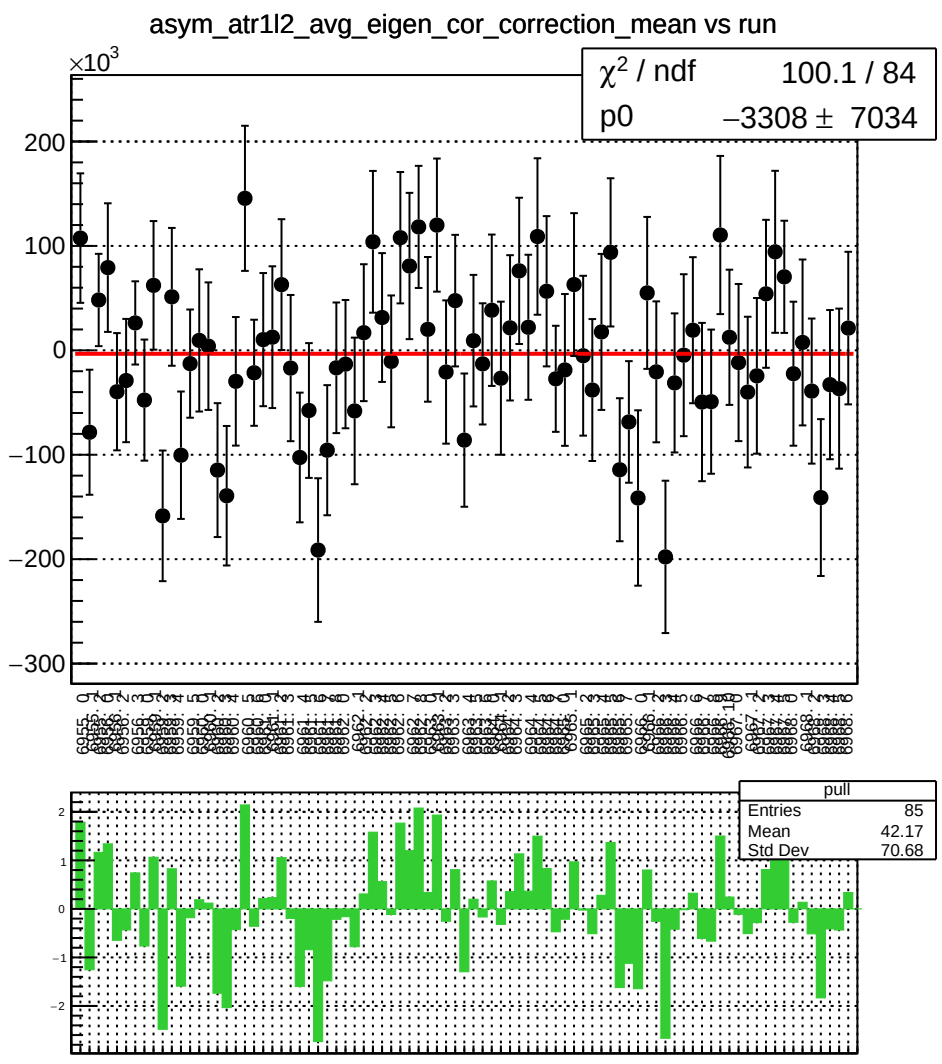

pull1D
Entries 85
Mean −0.01006
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

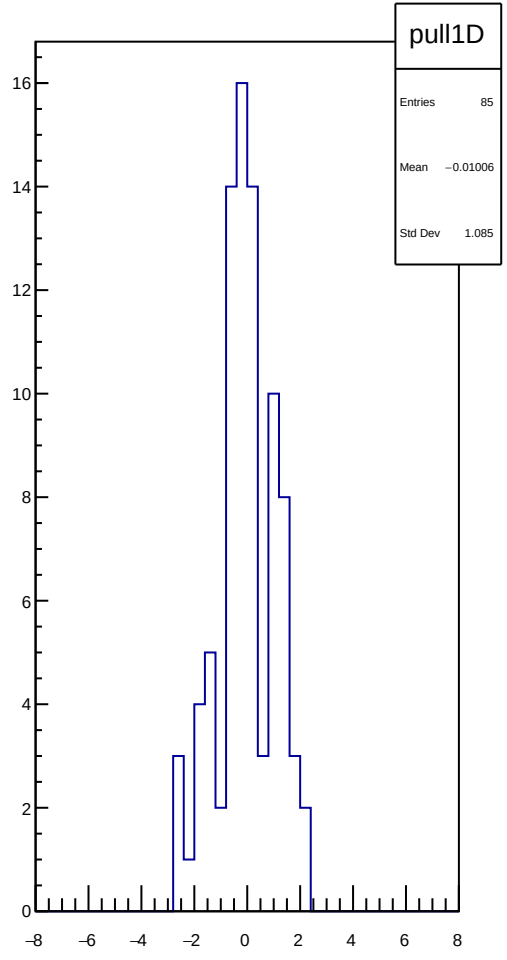

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.239e+04 / 84
p0 6350 ± 4.974
8000
7500
7000
6500
6000
5500
5000

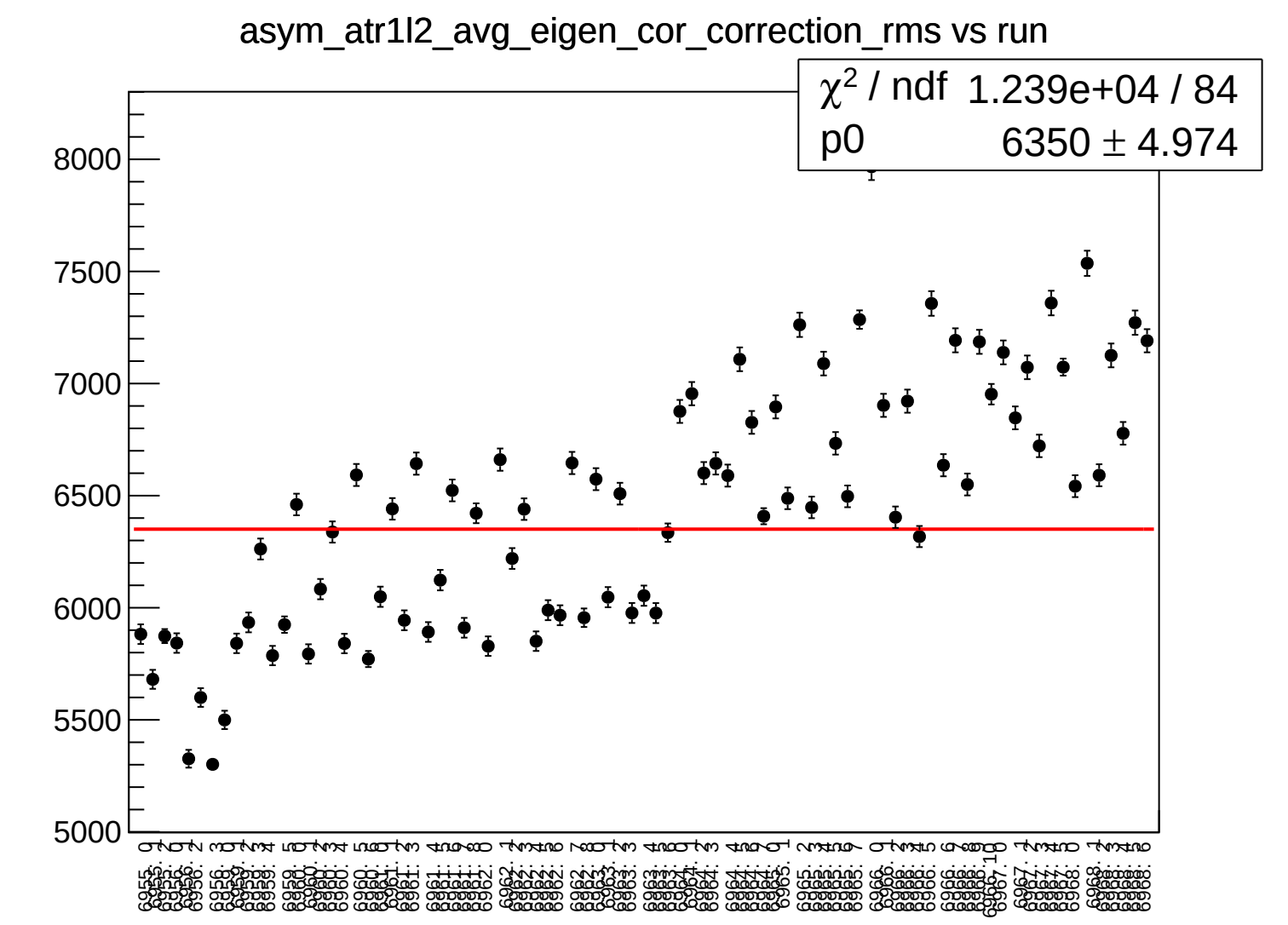

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 90.75 / 84
p0 −2081 ± 2066
pull
Entries 85
Mean 378.5
Std Dev 0

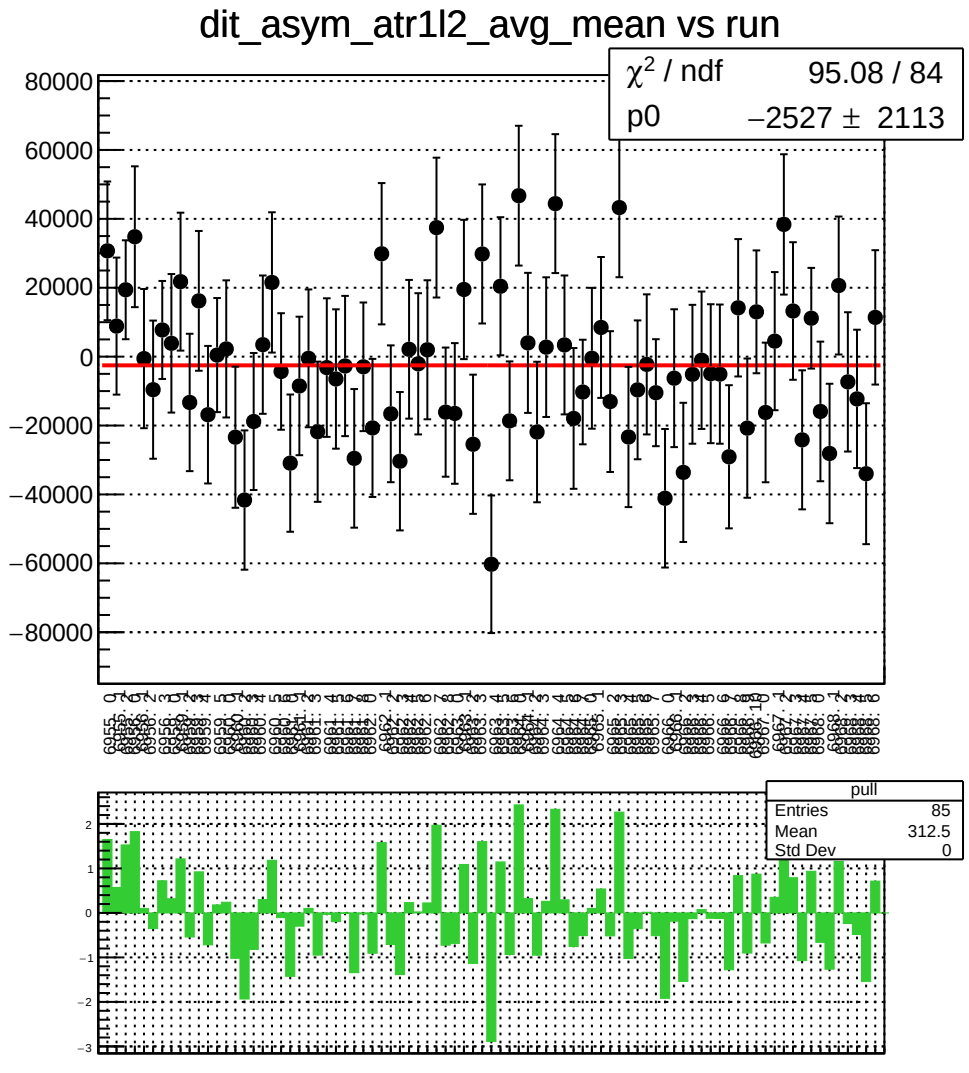

pull1D
Entries 85
Mean −0.006972
Std Dev 1.033

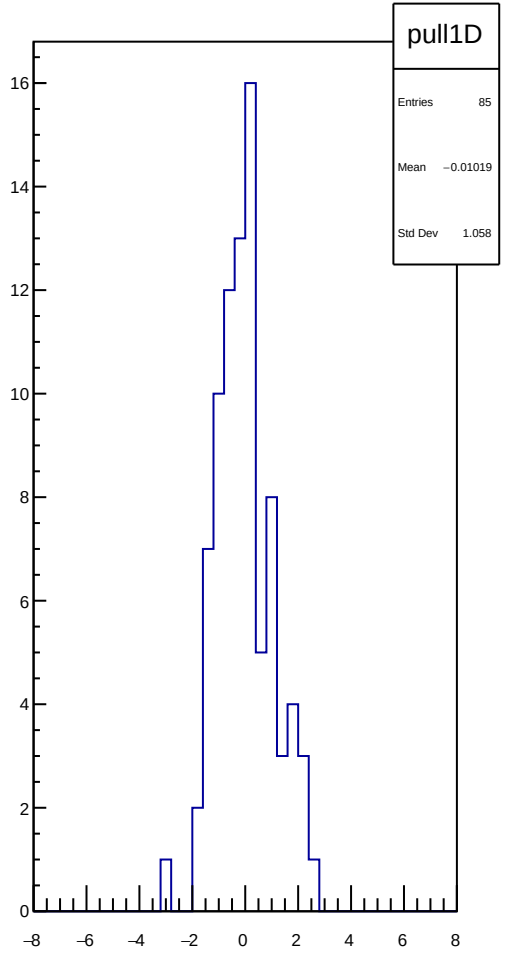

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 127.2 / 84
p0 1872 ± 1.461
1920
1900
1880
1860
1840
1820

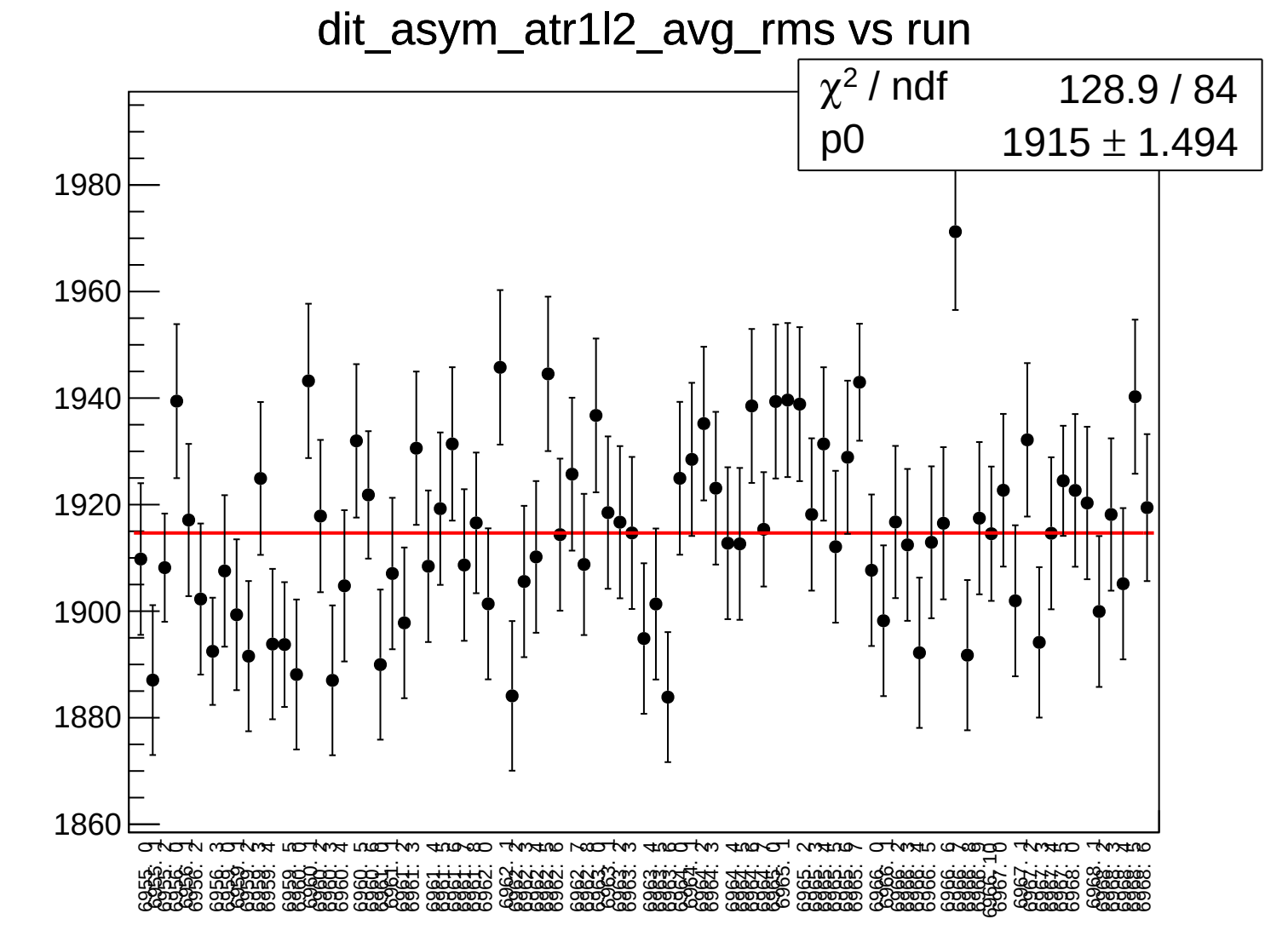

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.1 / 84
p0 −3308 ± 7034
200
100
0
−100
−200
−300
pull
Entries 85
Mean 42.17
Std Dev 70.68
2
1
0
−1
−2

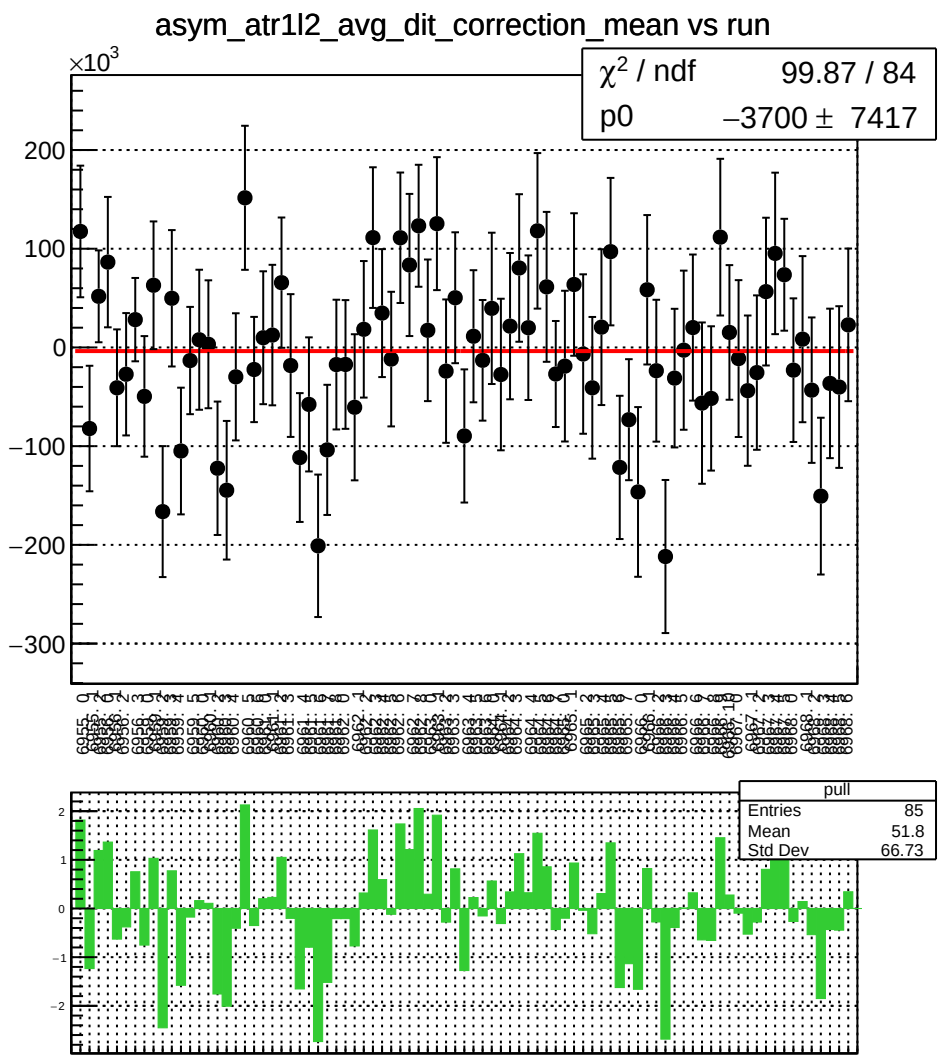

pull1D
Entries 85
Mean −0.01006
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

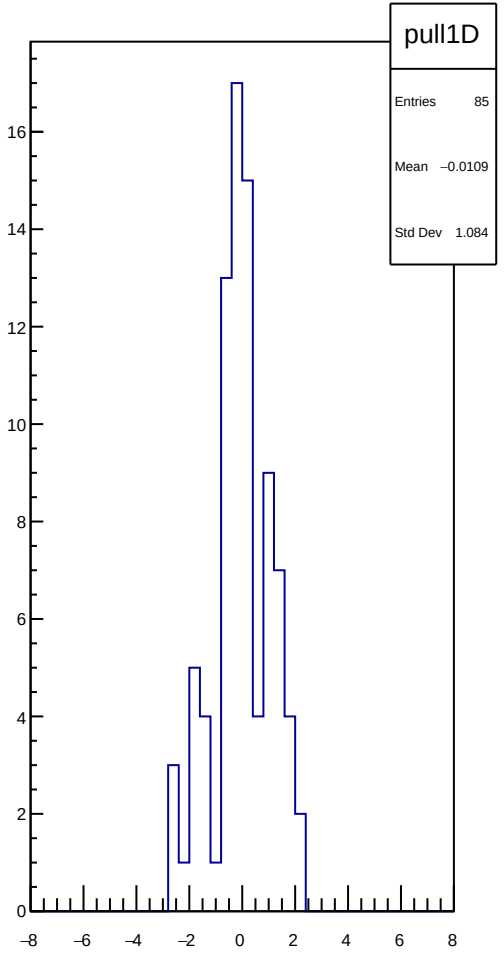

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.239e+04 / 84
p0 6350 ± 4.974
8000
7500
7000
6500
6000
5500
5000

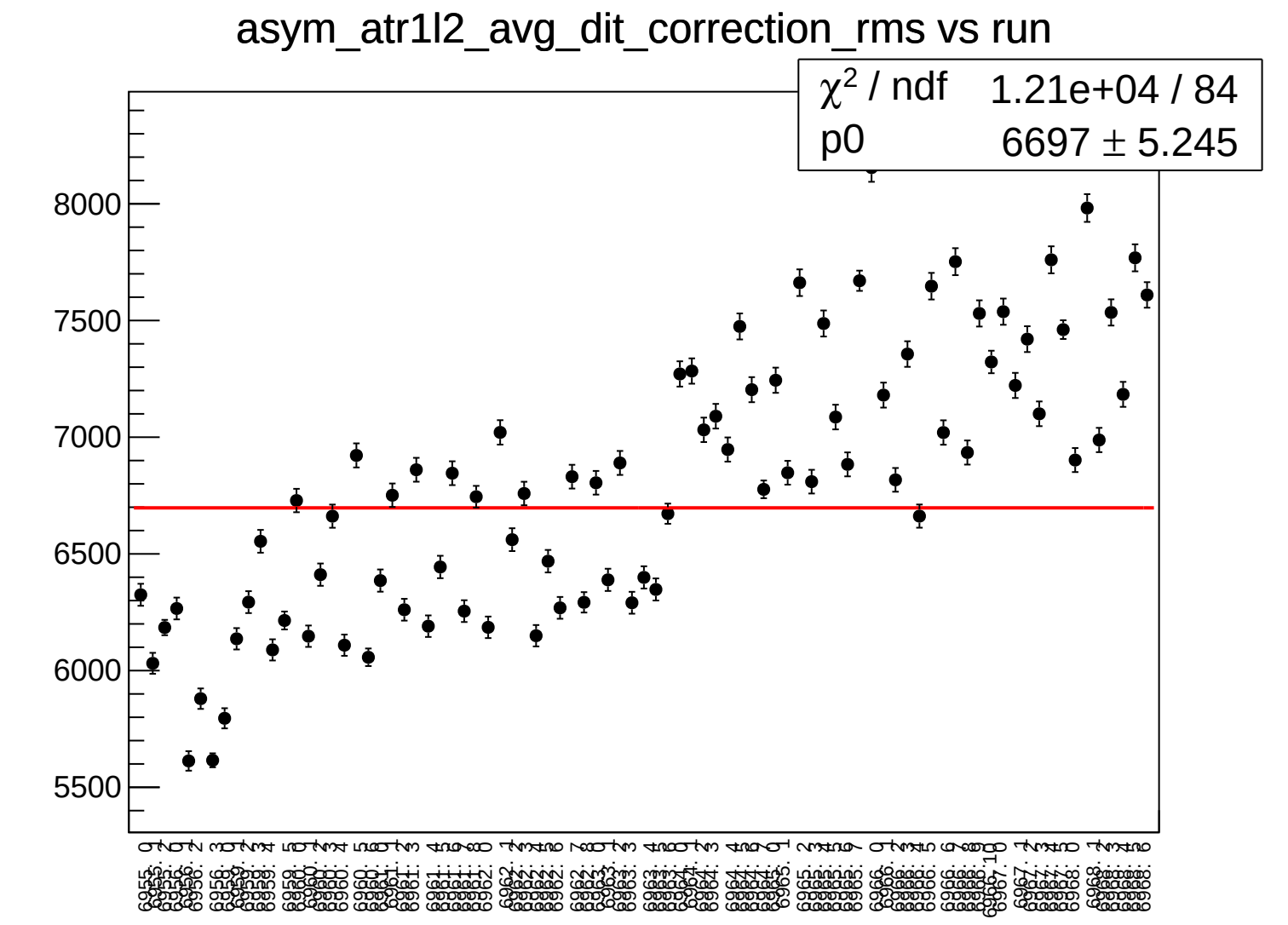

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 95.08 / 84
p0 −2527 ± 2113
pull
Entries 85
Mean 312.5
Std Dev 0

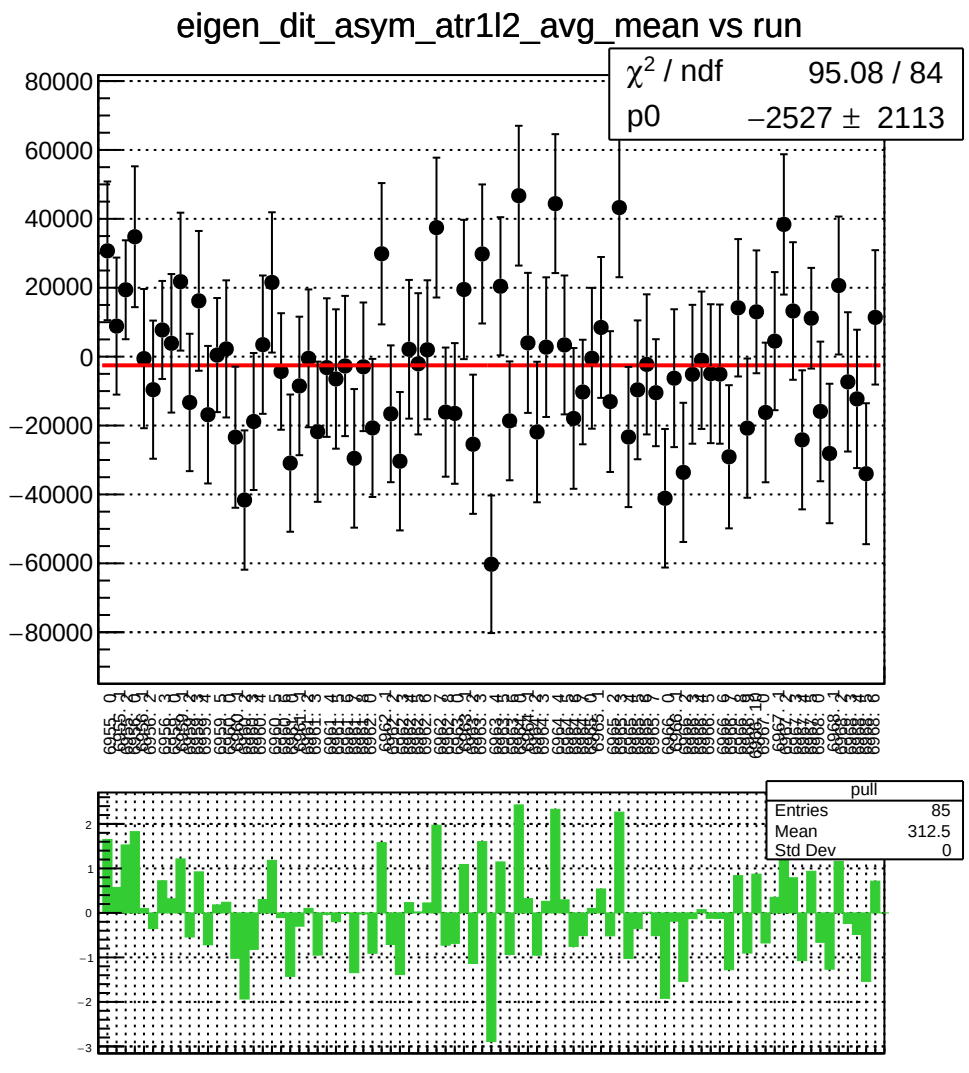

pull1D
Entries 85
Mean −0.01019
Std Dev 1.058

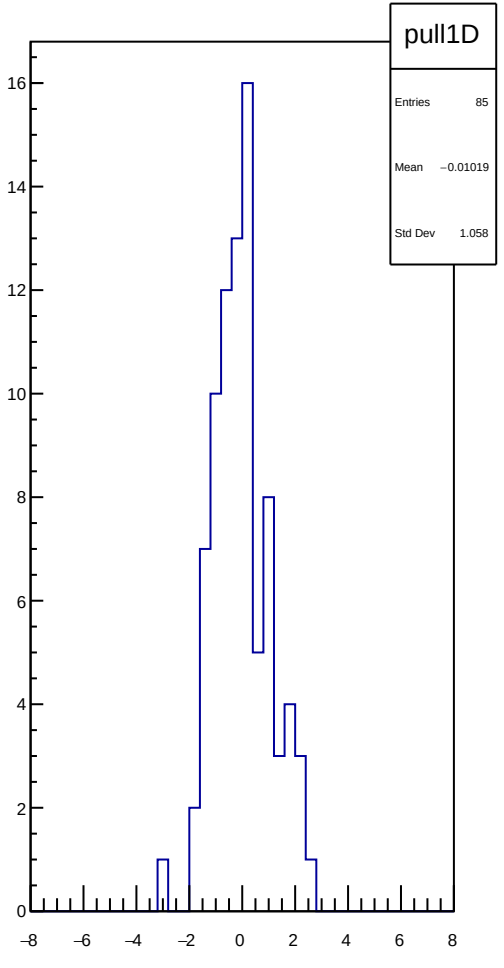

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 128.9 / 84
p0 1915 ± 1.494
1980
1960
1940
1920
1900
1880
1860

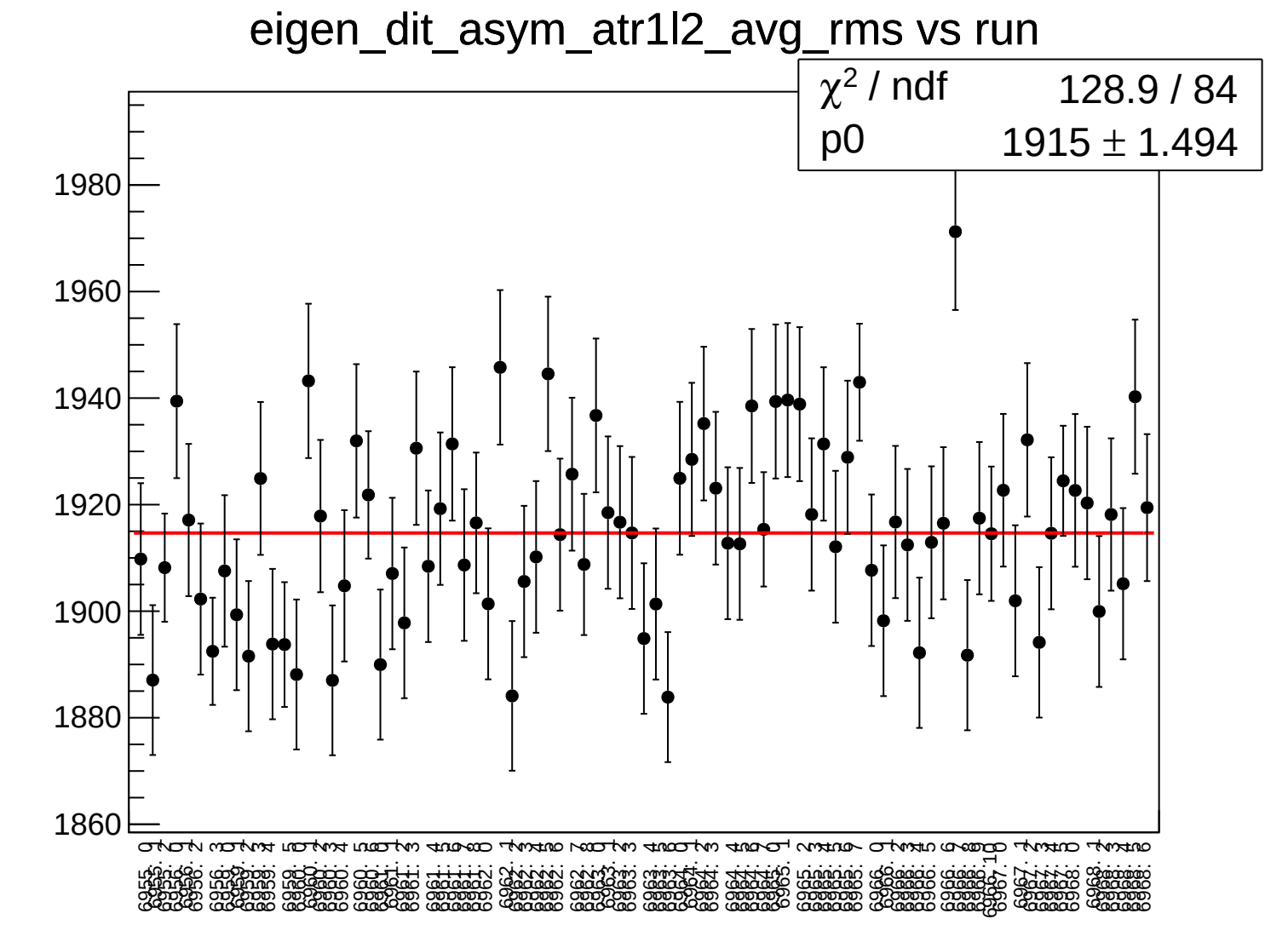

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.87 / 84
p0 −3700 ± 7417
200
100
0
−100
−200
−300
pull
Entries 85
Mean 51.8
Std Dev 66.73
2
1
0
−1
−2

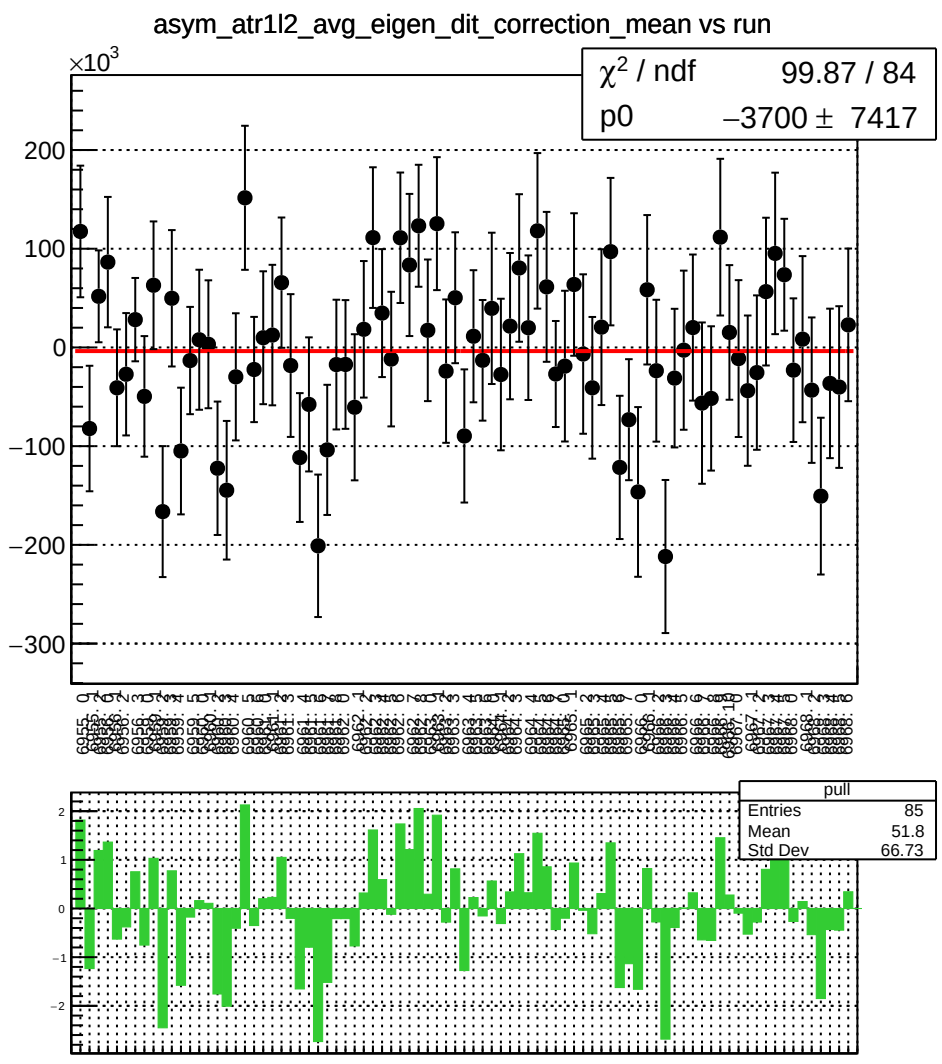

pull1D
Entries 85
Mean −0.0109
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

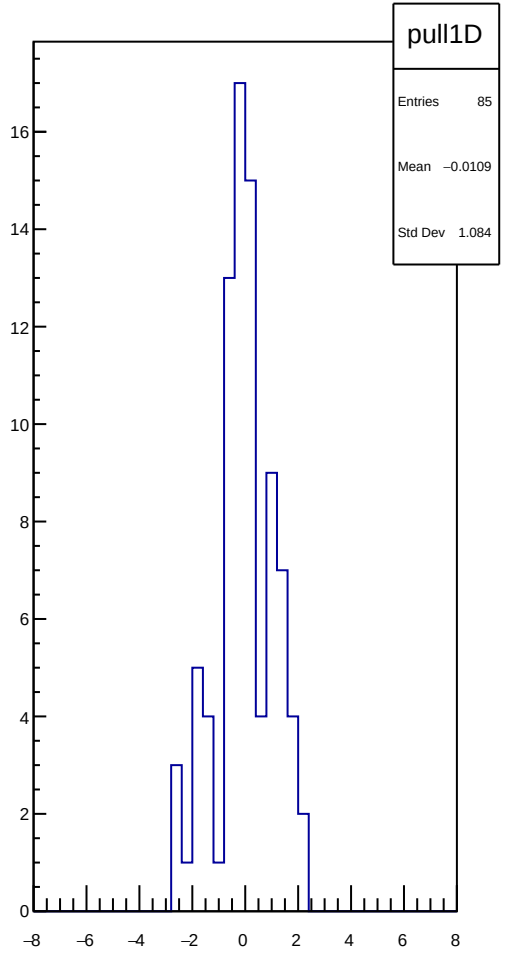

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.21e+04 / 84
p0 6697 ± 5.245
8000
7500
7000
6500
6000
5500

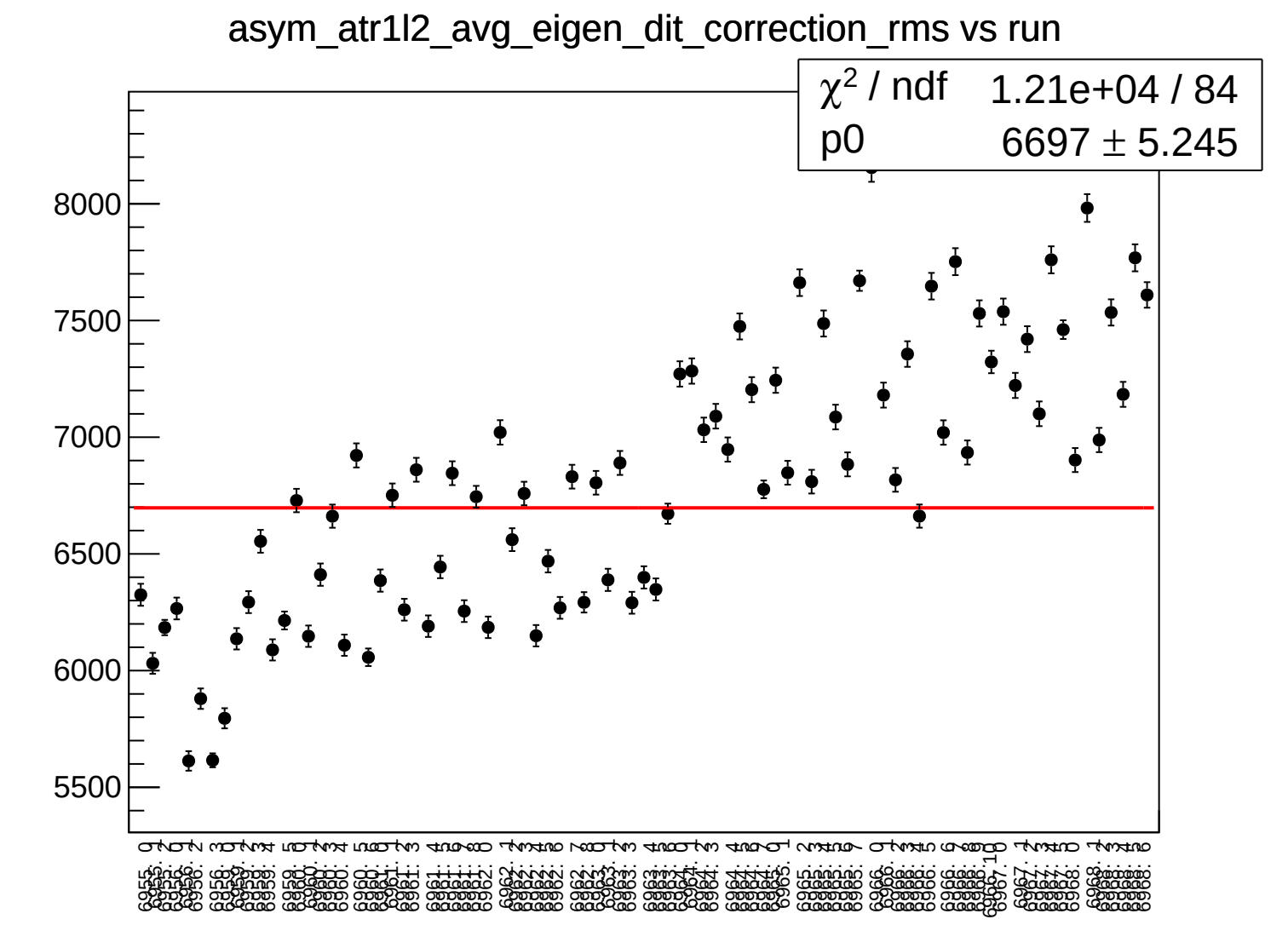

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 95.08 / 84
p0 −2527 ± 2113
pull
Entries 85
Mean 312.5
Std Dev 0

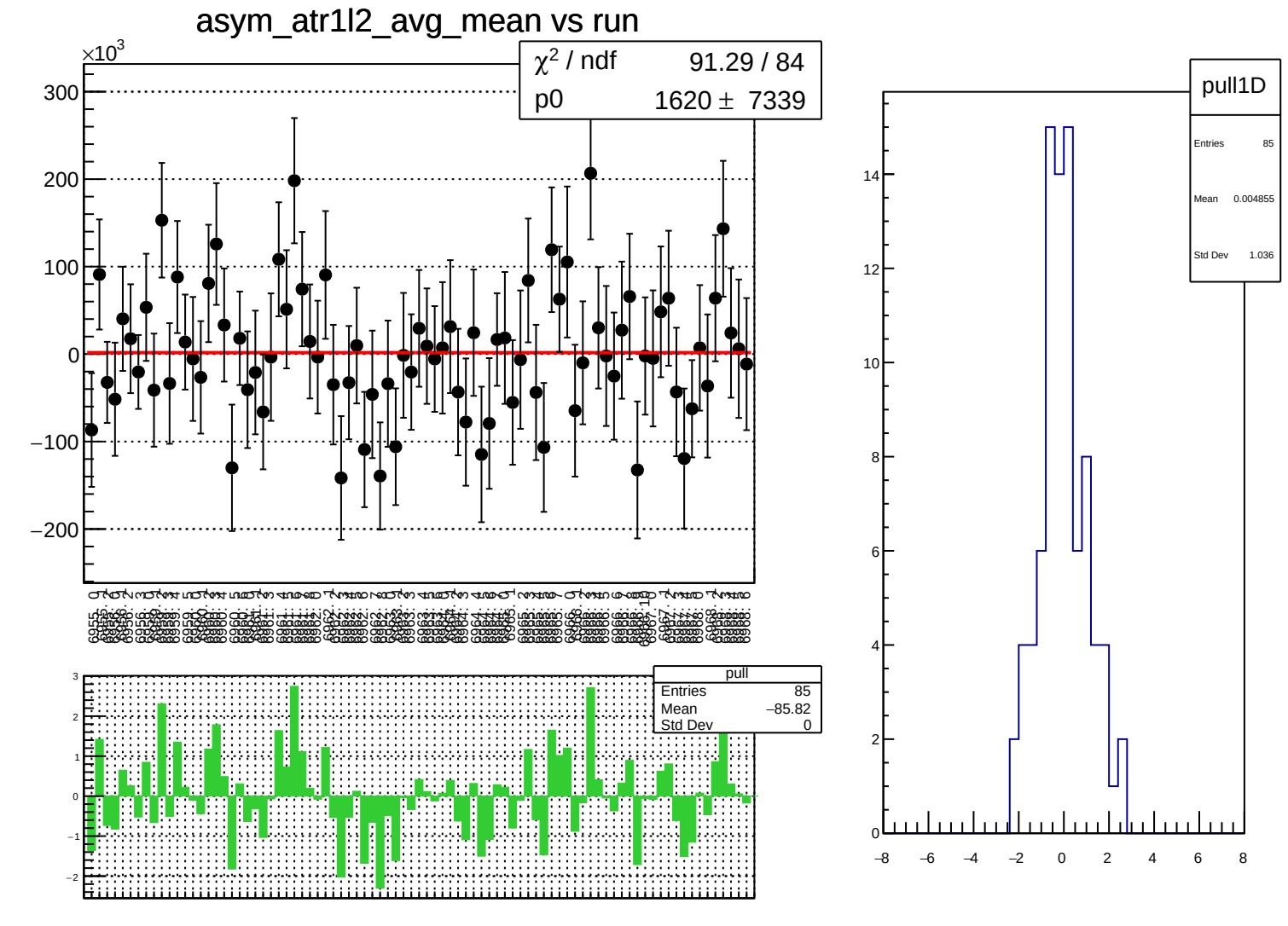

pull1D
Entries 85
Mean −0.01019
Std Dev 1.058

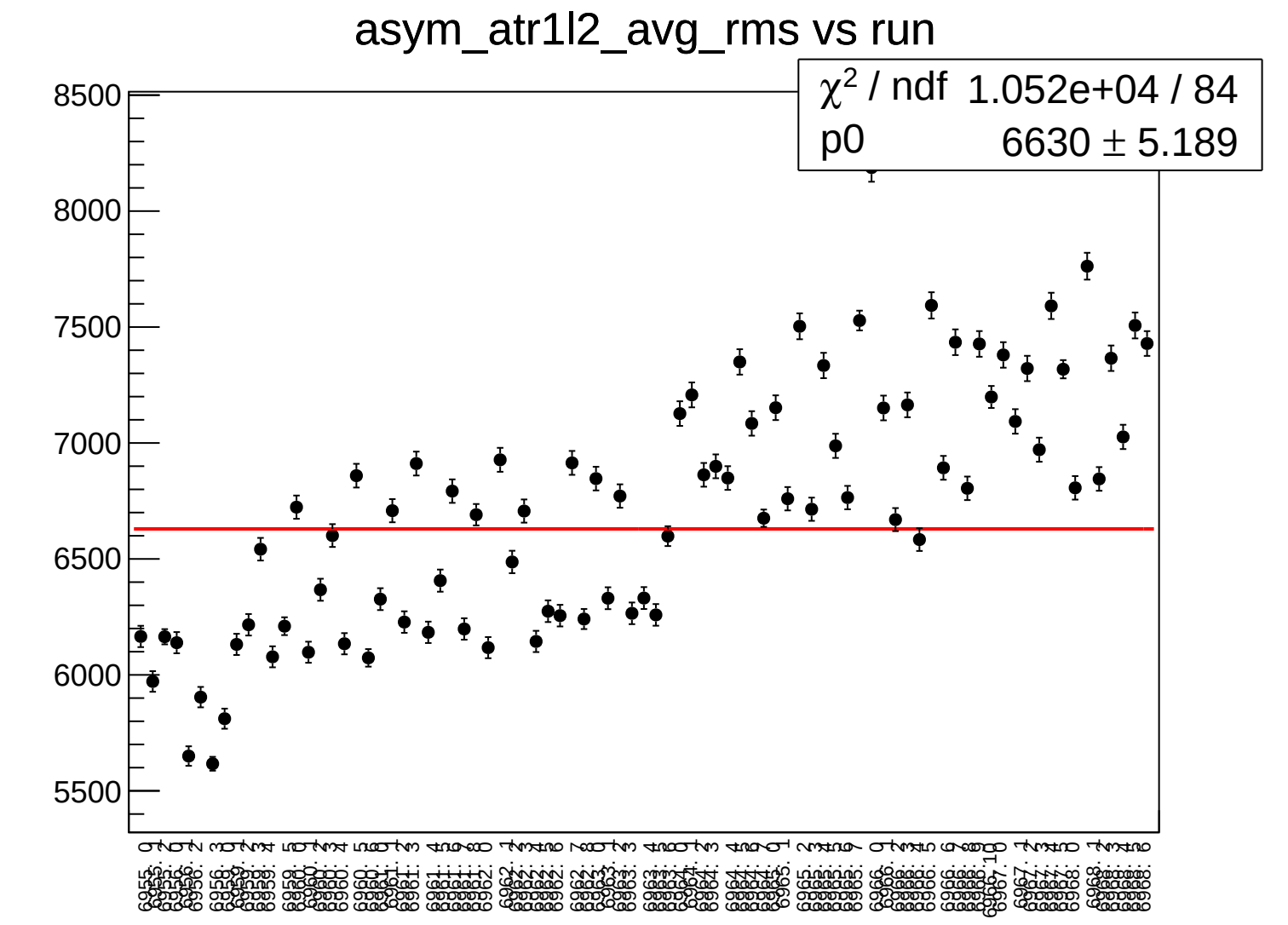

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 128.9 / 84
p0 1915 ± 1.494
1980
1960
1940
1920
1900
1880
1860

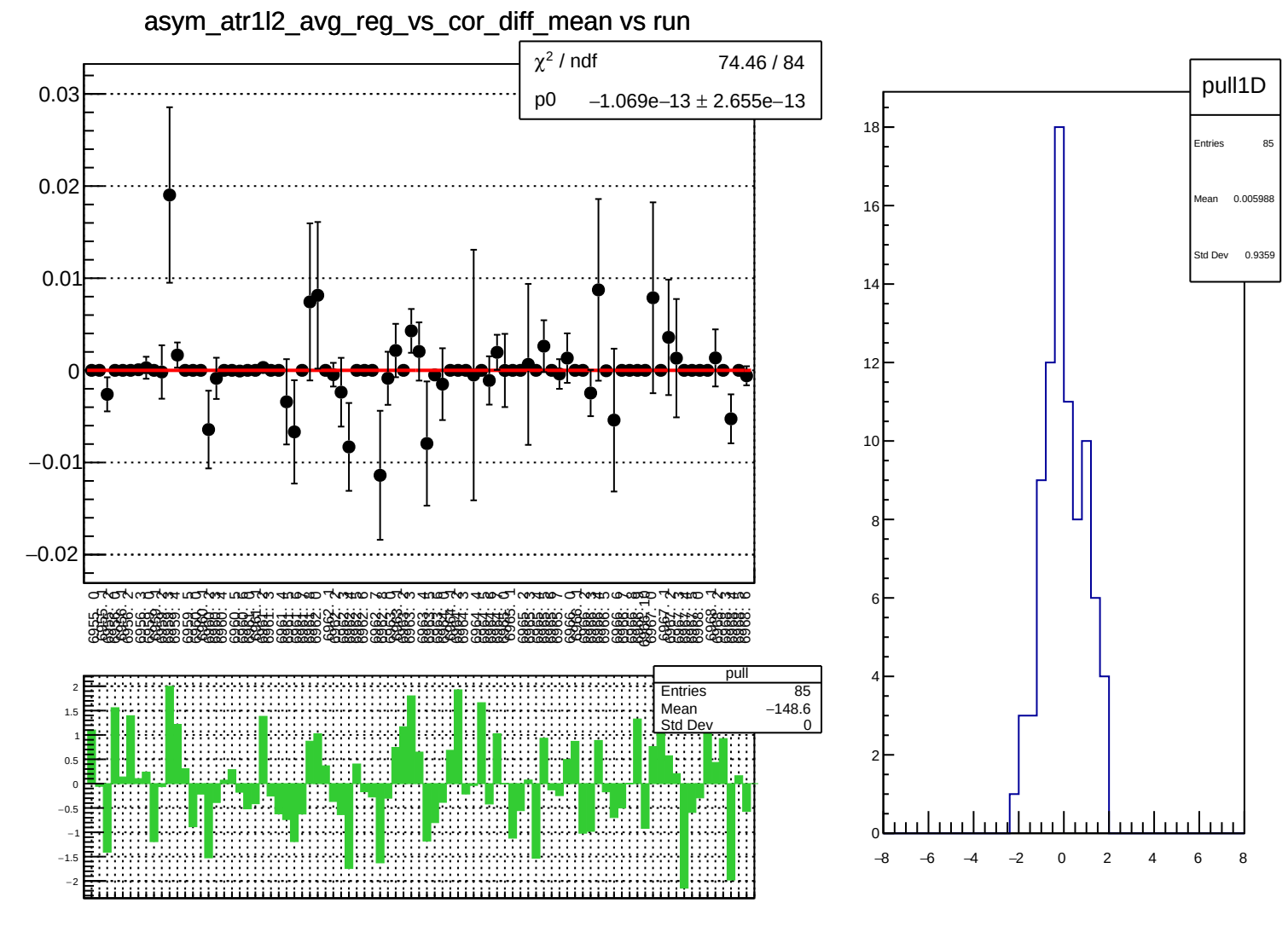

asym_atr1l2_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.87 / 84
p0 −3700 ± 7417
×10³
200
100
0
−100
−200
−300
pull
Entries 85
Mean 51.8
Std Dev 66.73
2
1
0
−1
−2

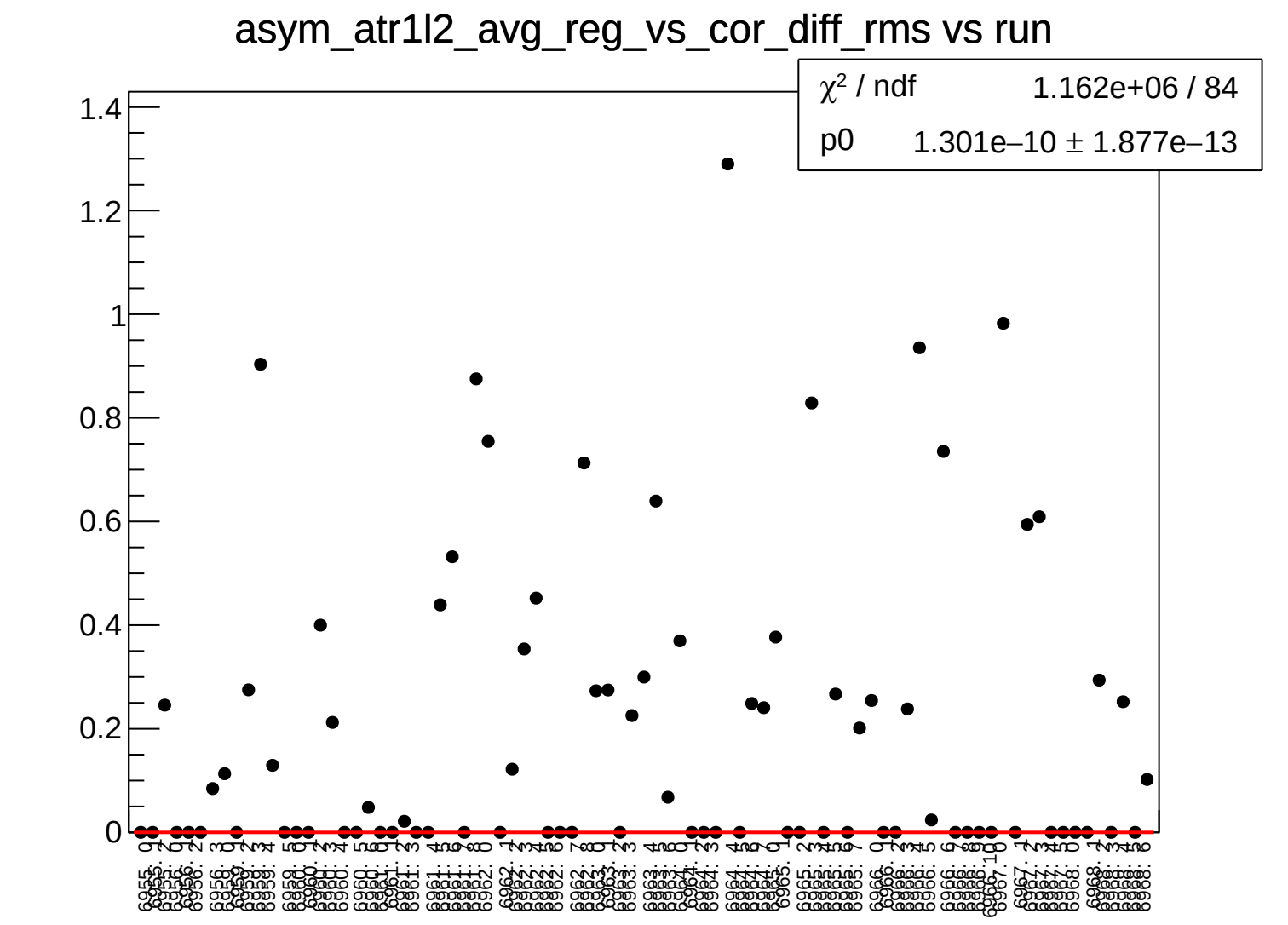

pull1D
Entries 85
Mean −0.0109
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

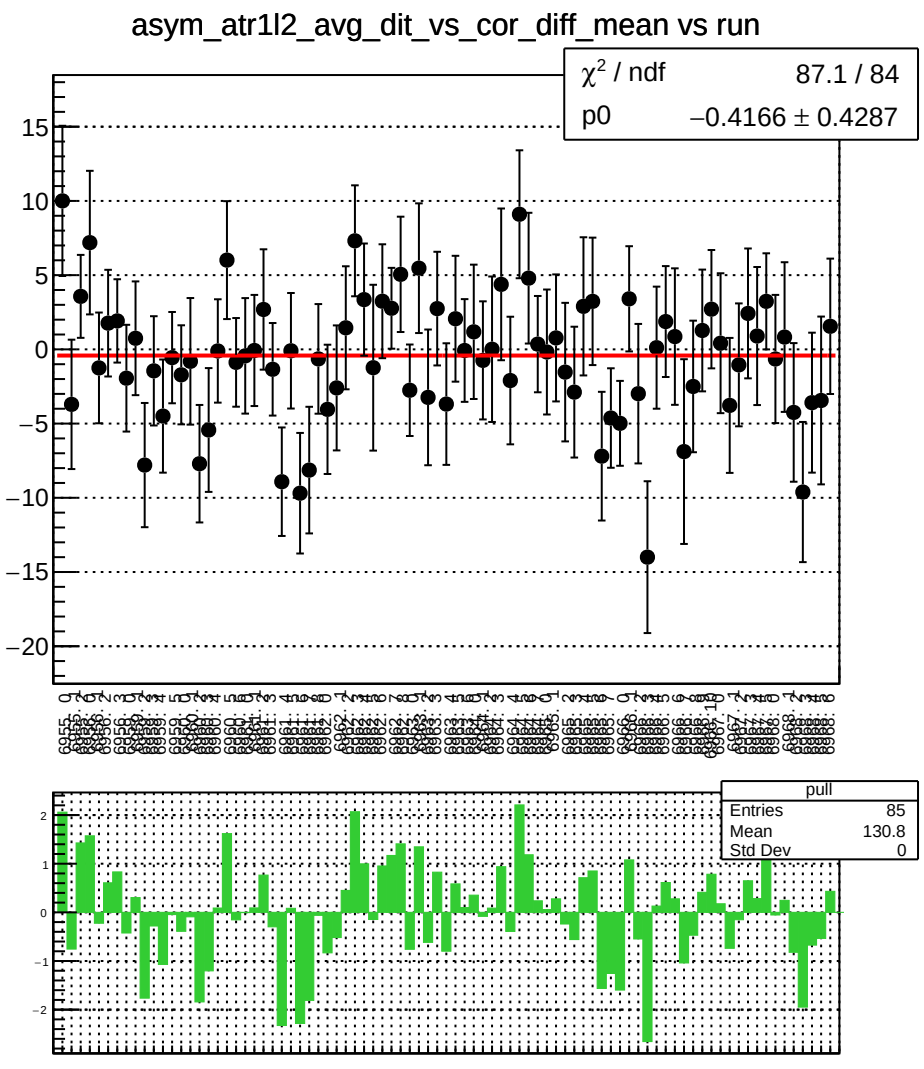

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.21e+04 / 84
p0 6697 ± 5.245
8000
7500
7000
6500
6000
5500

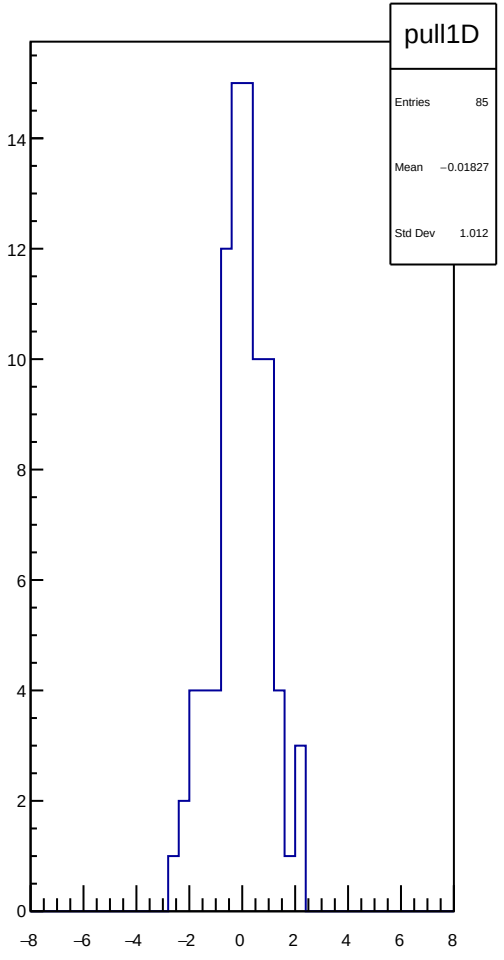

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 91.29 / 84
p0 1620 ± 7339
300
200
100
0
−100
−200
pull
Entries 85
Mean −85.82
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.004855
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

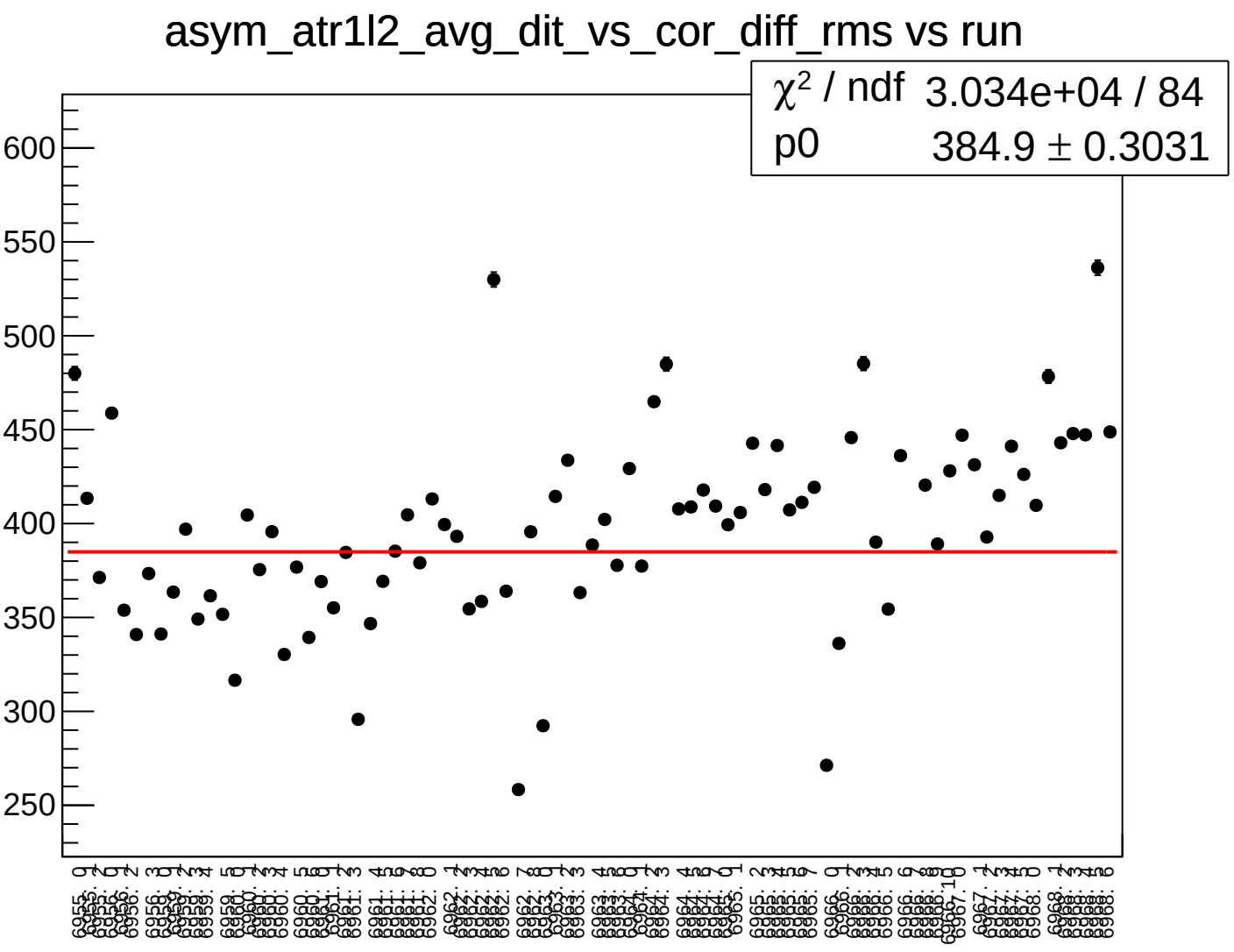

asym_atr1l2_avg_rms vs run
χ² / ndf 1.052e+04 / 84
p0 6630 ± 5.189
8500
8000
7500
7000
6500
6000
5500

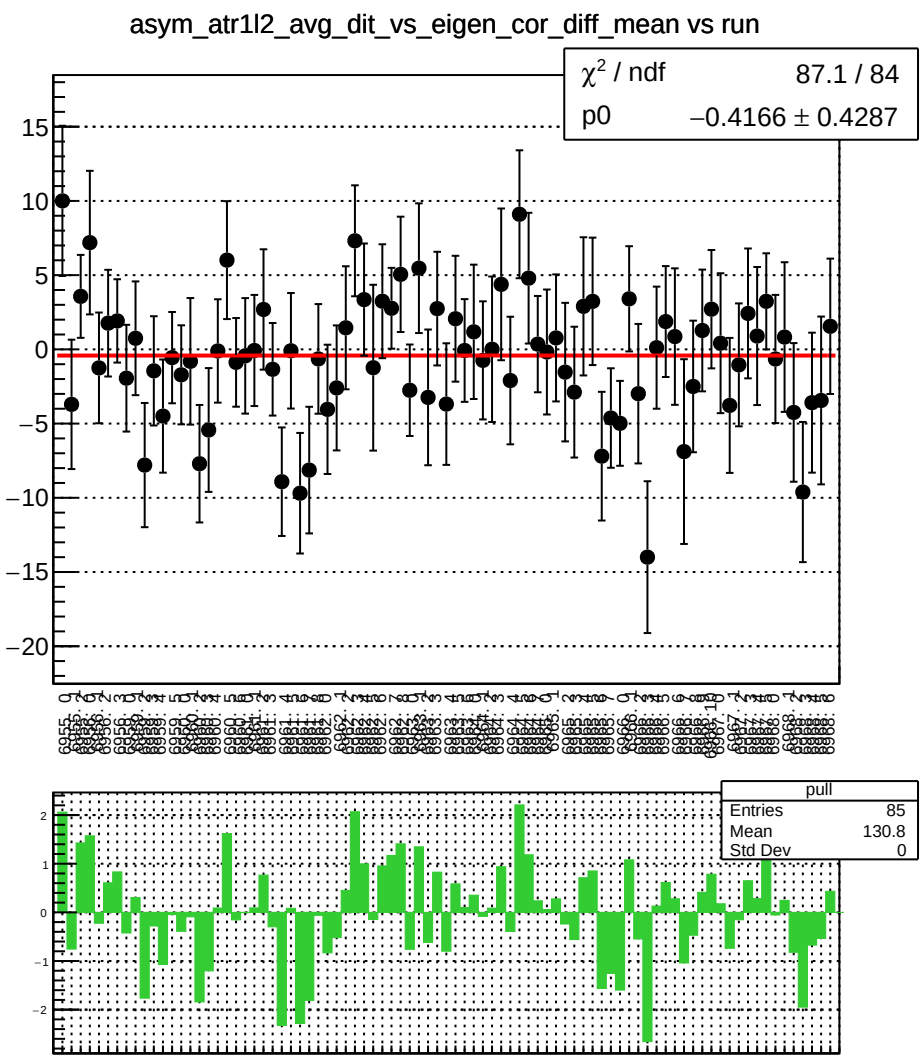

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.46 / 84
p0 −1.069e−13 ± 2.655e−13
pull
Entries 85
Mean −148.6
Std Dev 0
pull1D
Entries 85
Mean 0.005988
Std Dev 0.9359

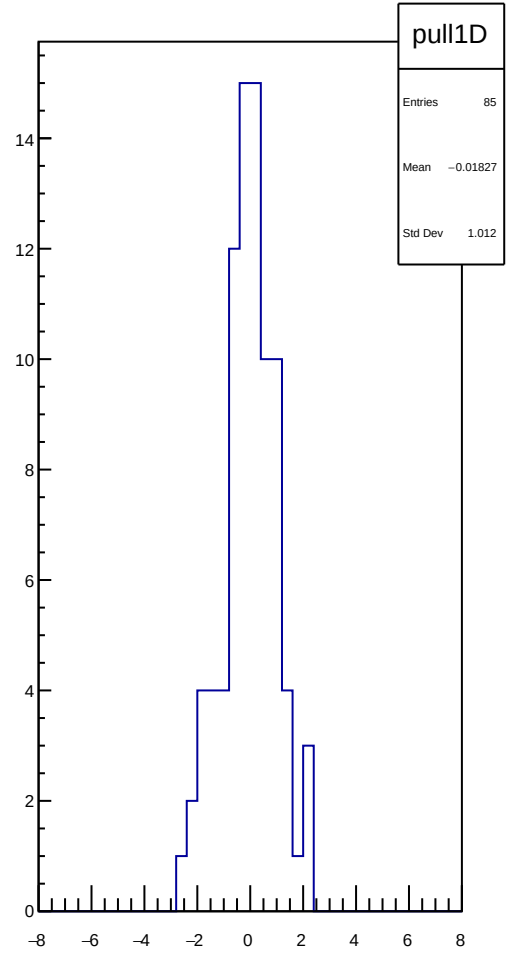

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.162e+06 / 84
p0 1.301e−10 ± 1.877e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

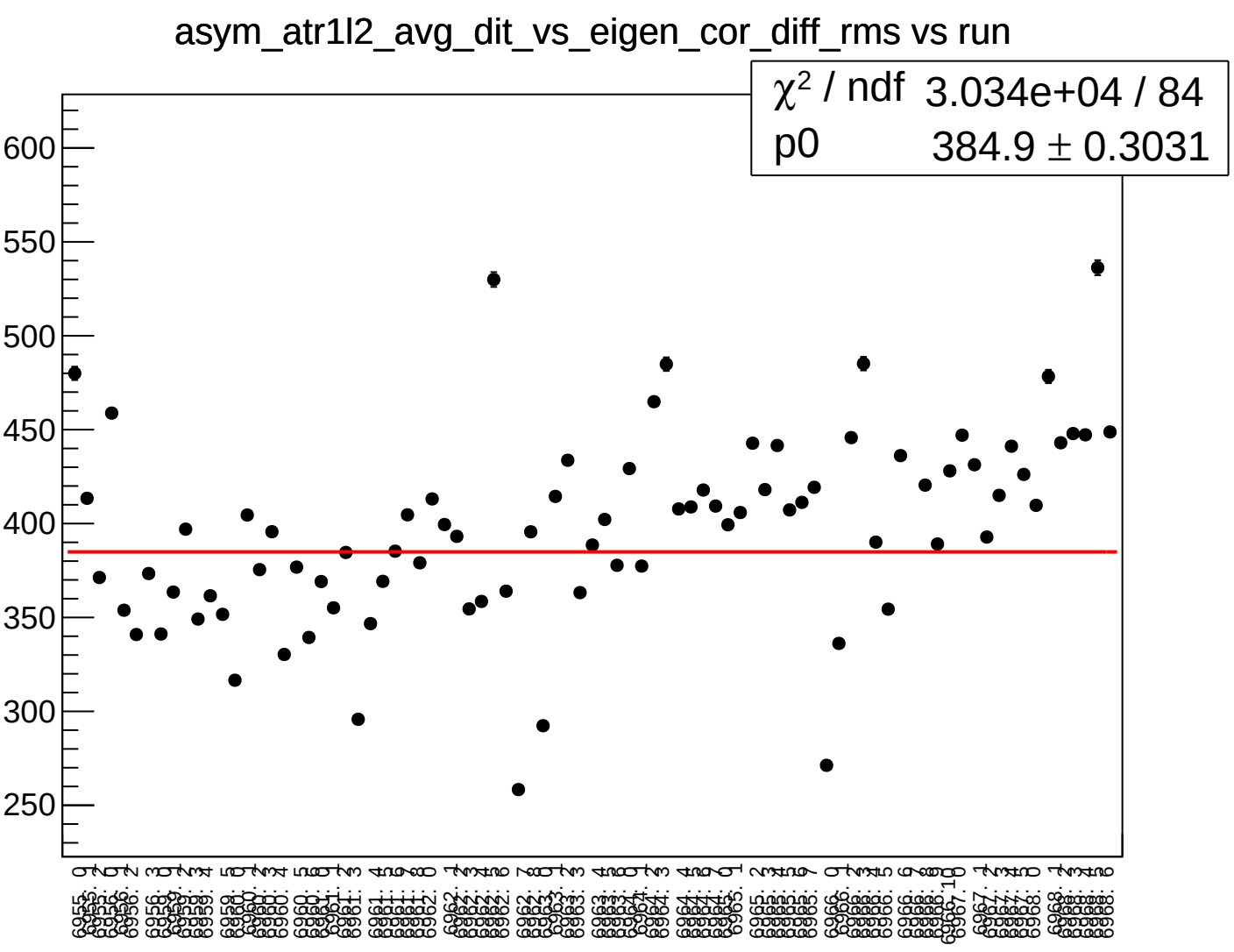

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.1 / 84
p0 −0.4166 ± 0.4287
pull
Entries 85
Mean 130.8
Std Dev 0

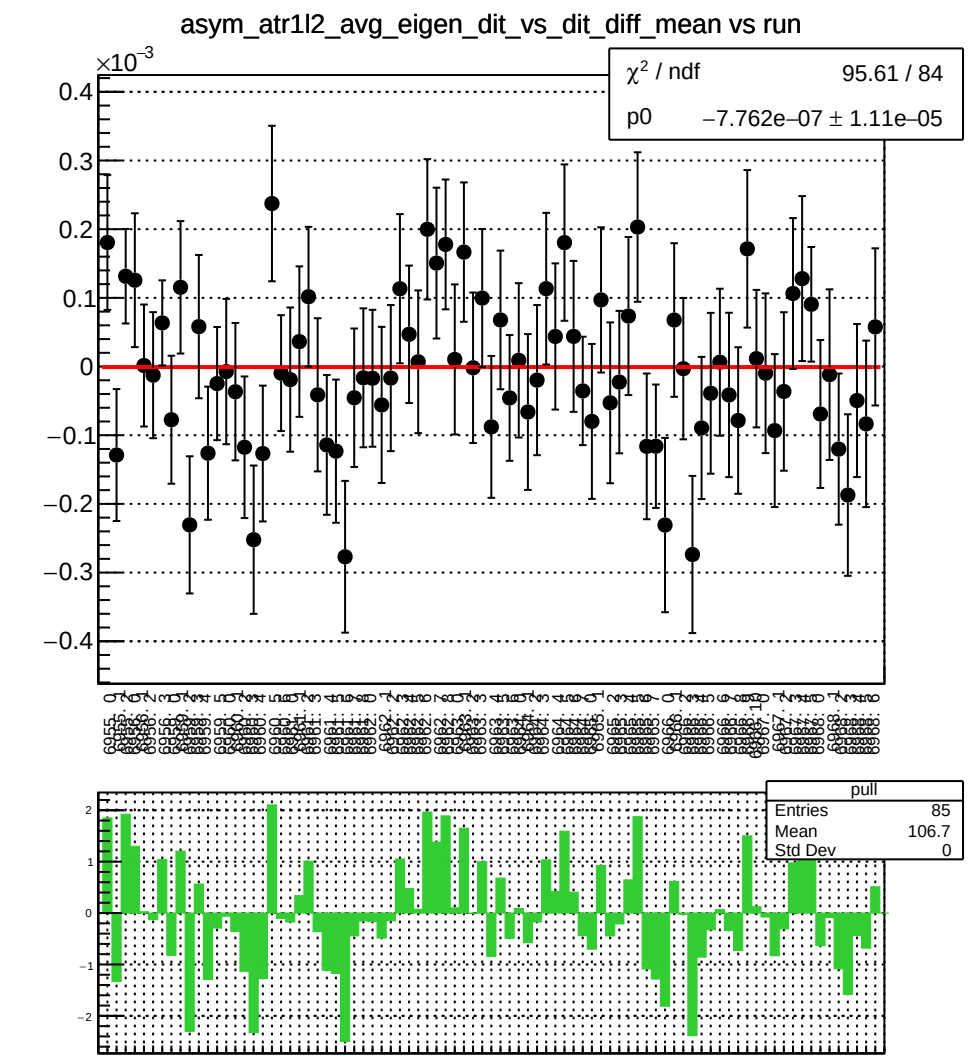

pull1D
Entries 85
Mean −0.01827
Std Dev 1.012

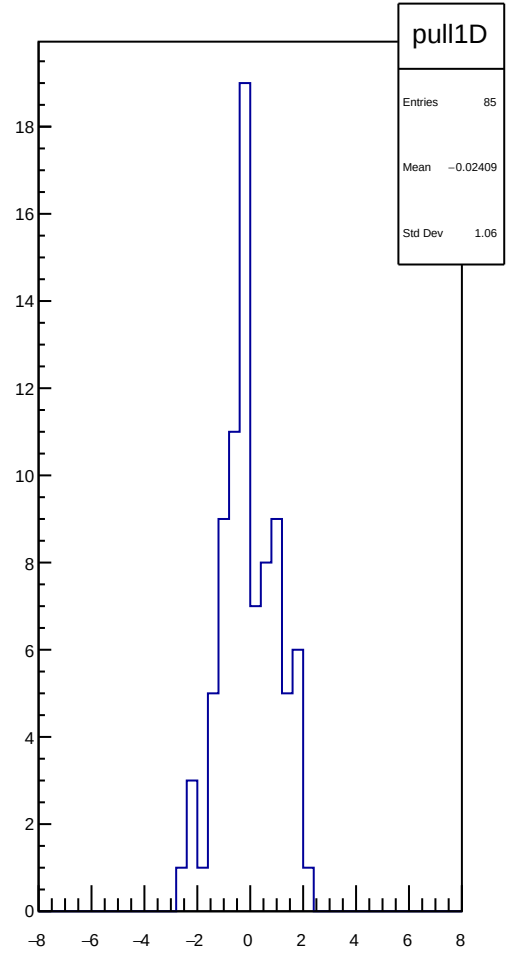

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.034e+04 / 84
p0 384.9 ± 0.3031
600
550
500
450
400
350
300
250

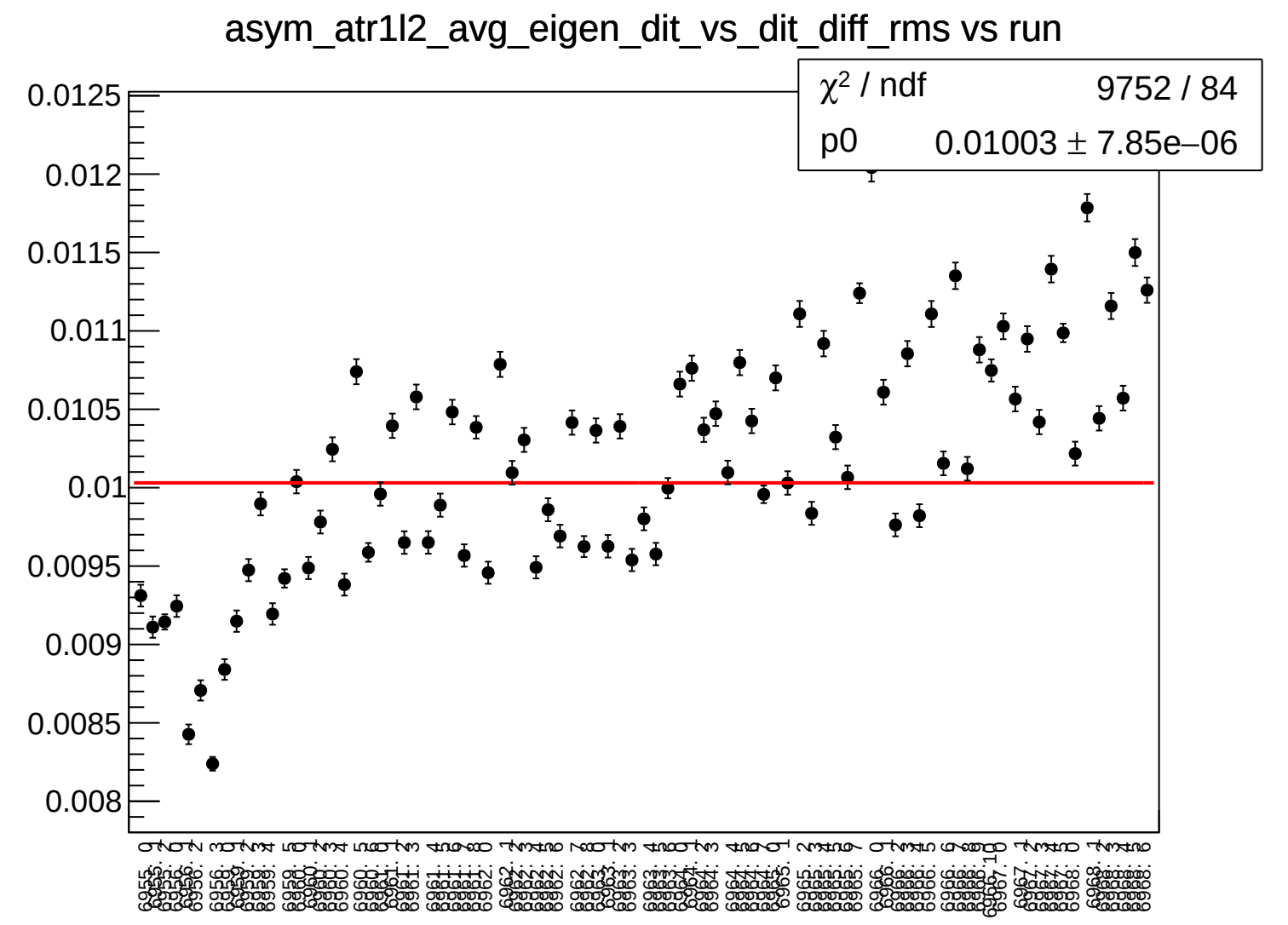

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.1 / 84
p0 −0.4166 ± 0.4287
pull
Entries 85
Mean 130.8
Std Dev 0

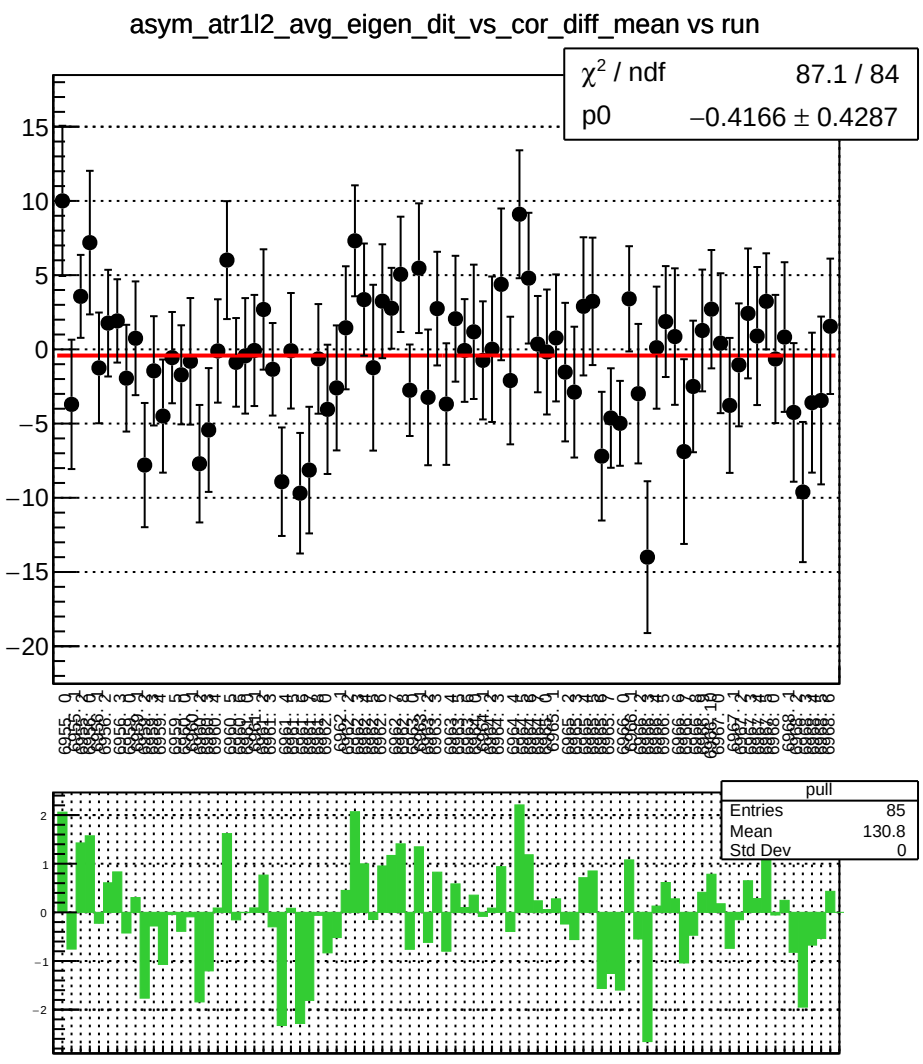

pull1D
Entries 85
Mean −0.01827
Std Dev 1.012

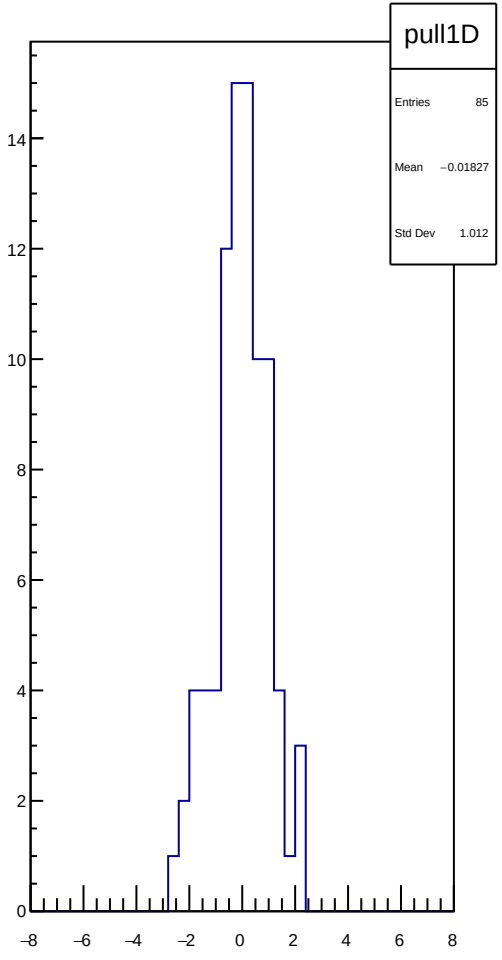

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.034e+04 / 84
p0 384.9 ± 0.3031
600
550
500
450
400
350
300
250

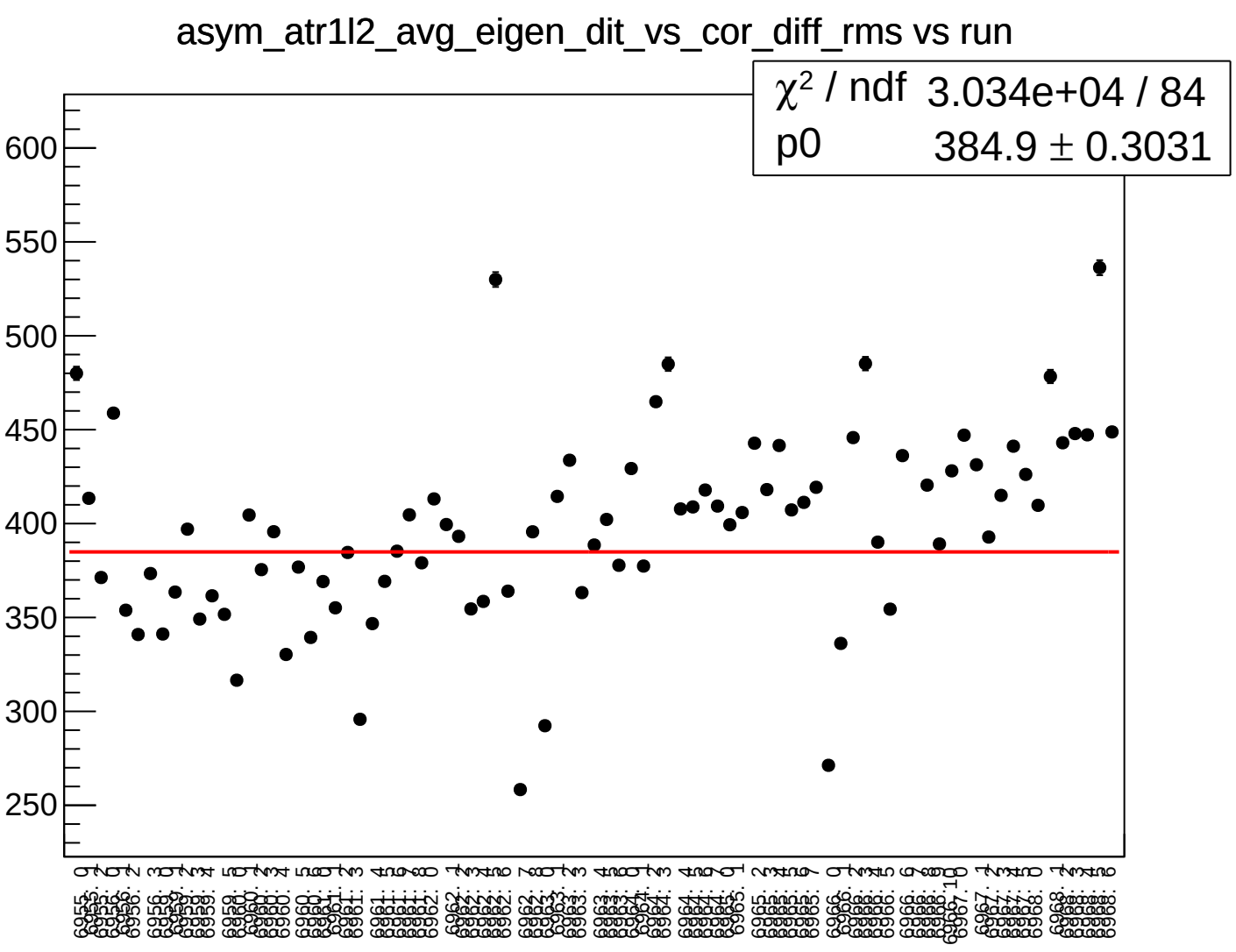

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.61 / 84
p0 −7.762e−07 ± 1.11e−05
pull
Entries 85
Mean 106.7
Std Dev 0

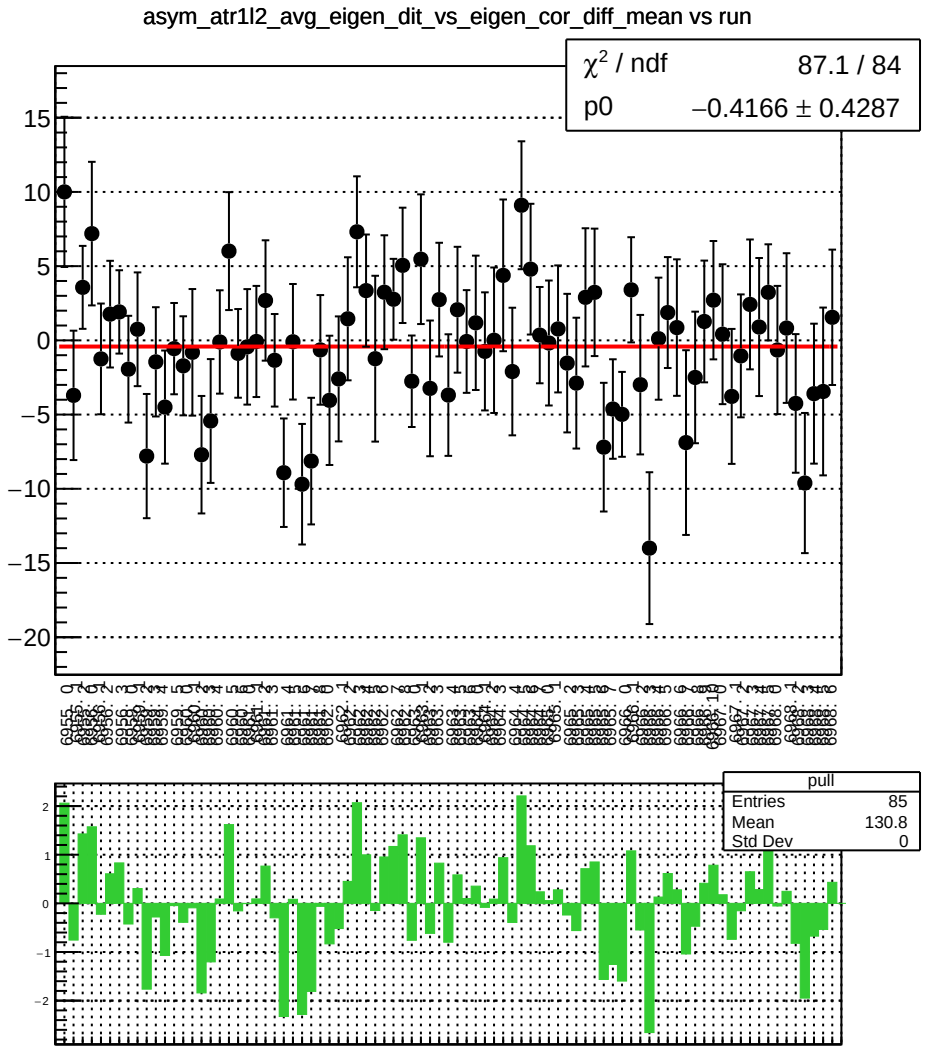

pull1D
Entries 85
Mean −0.02409
Std Dev 1.06

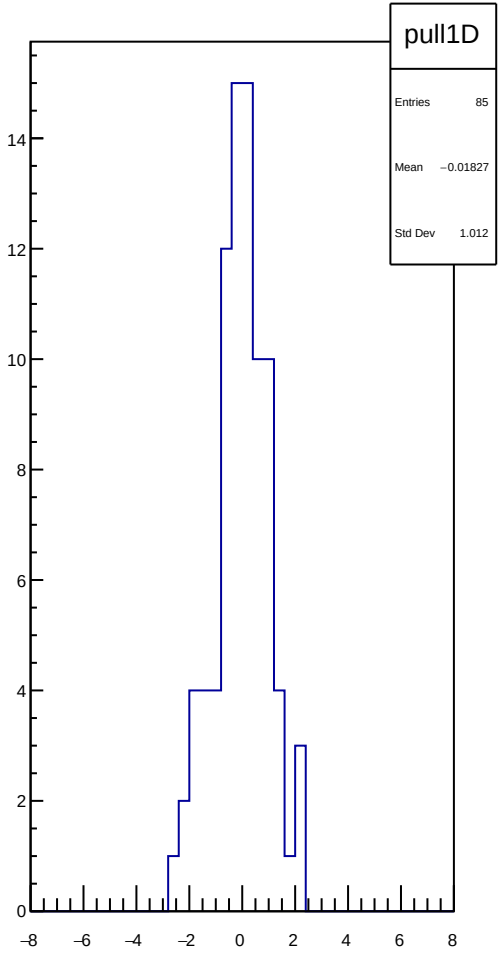

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9752 / 84
p0 0.01003 ± 7.85e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

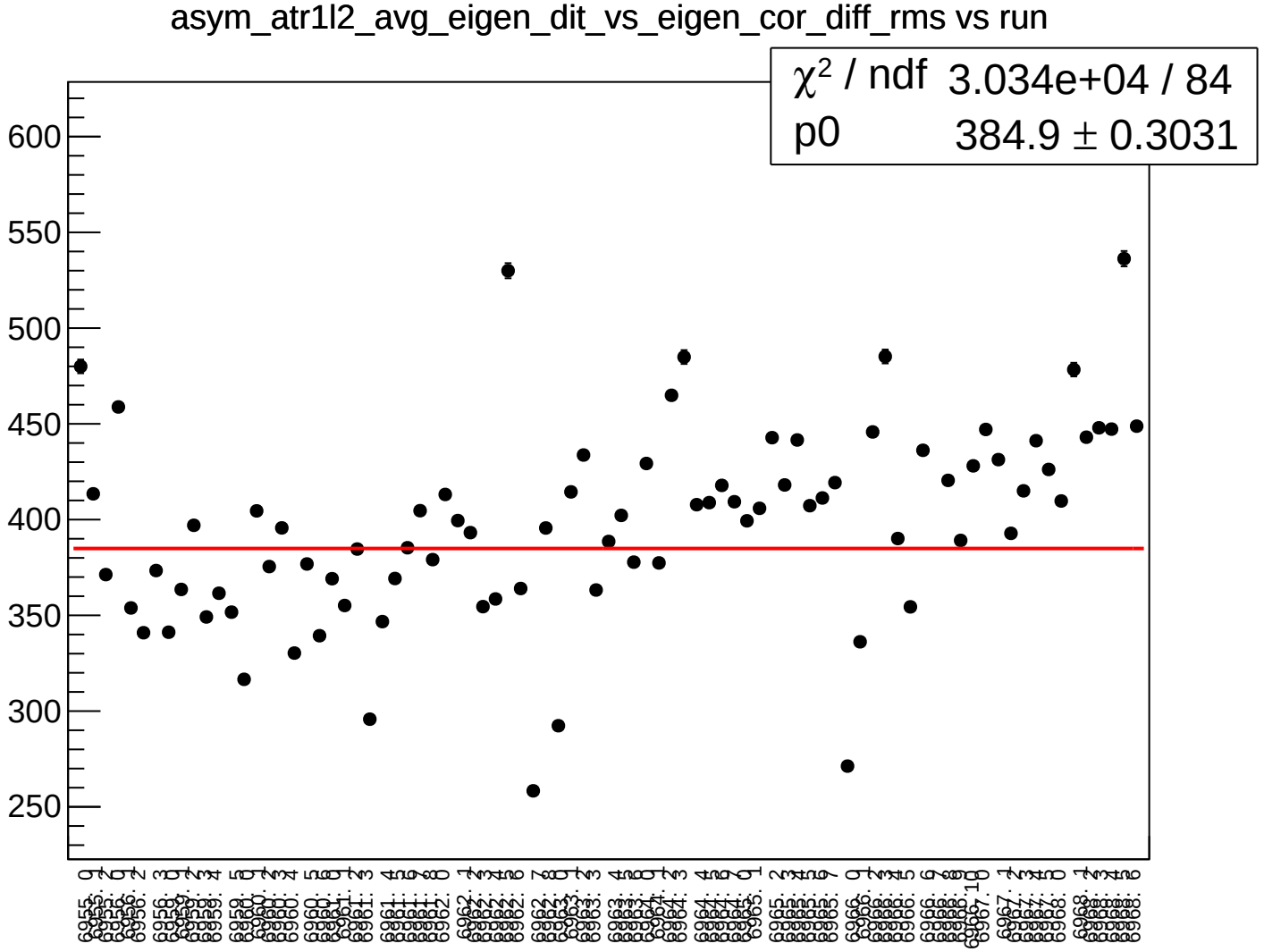

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.1 / 84
p0 −0.4166 ± 0.4287
pull
Entries 85
Mean 130.8
Std Dev 0


pull1D
Entries 85
Mean −0.01827
Std Dev 1.012

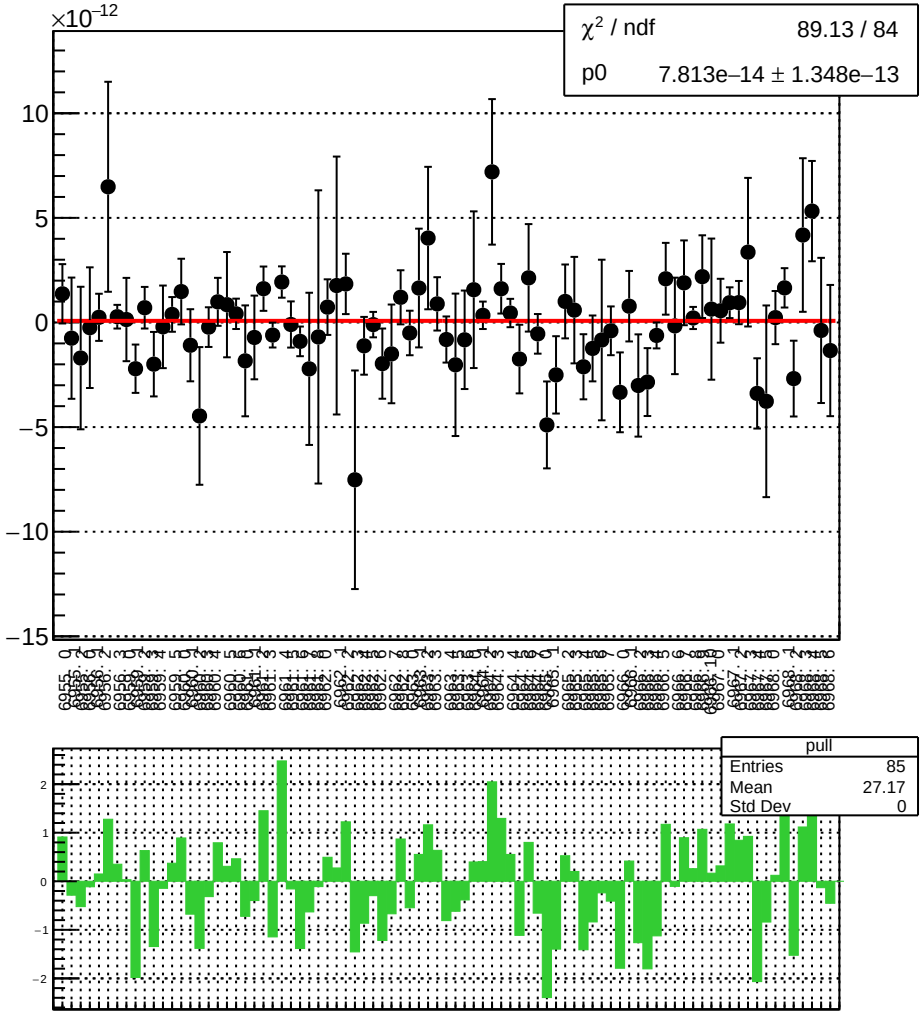

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.034e+04 / 84
p0 384.9 ± 0.3031
600
550
500
450
400
350
300
250

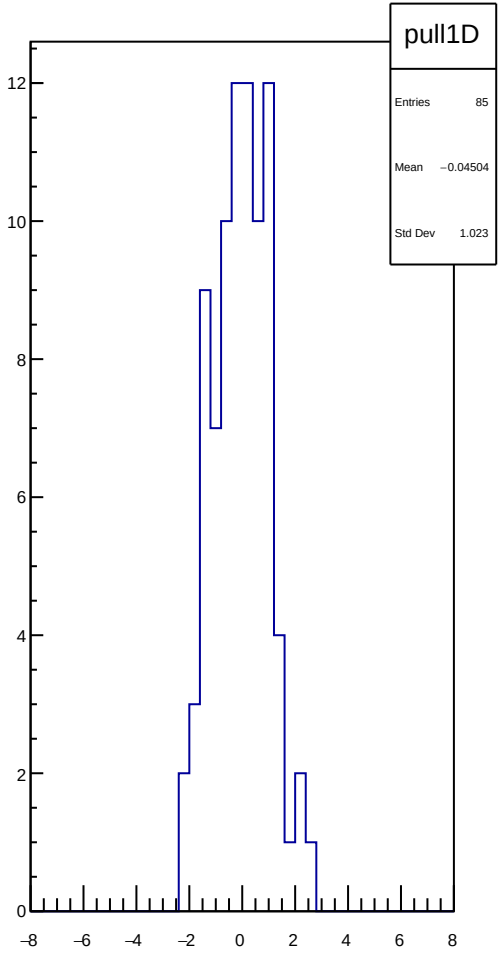

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.1 / 84
p0 −0.4166 ± 0.4287
pull
Entries 85
Mean 130.8
Std Dev 0

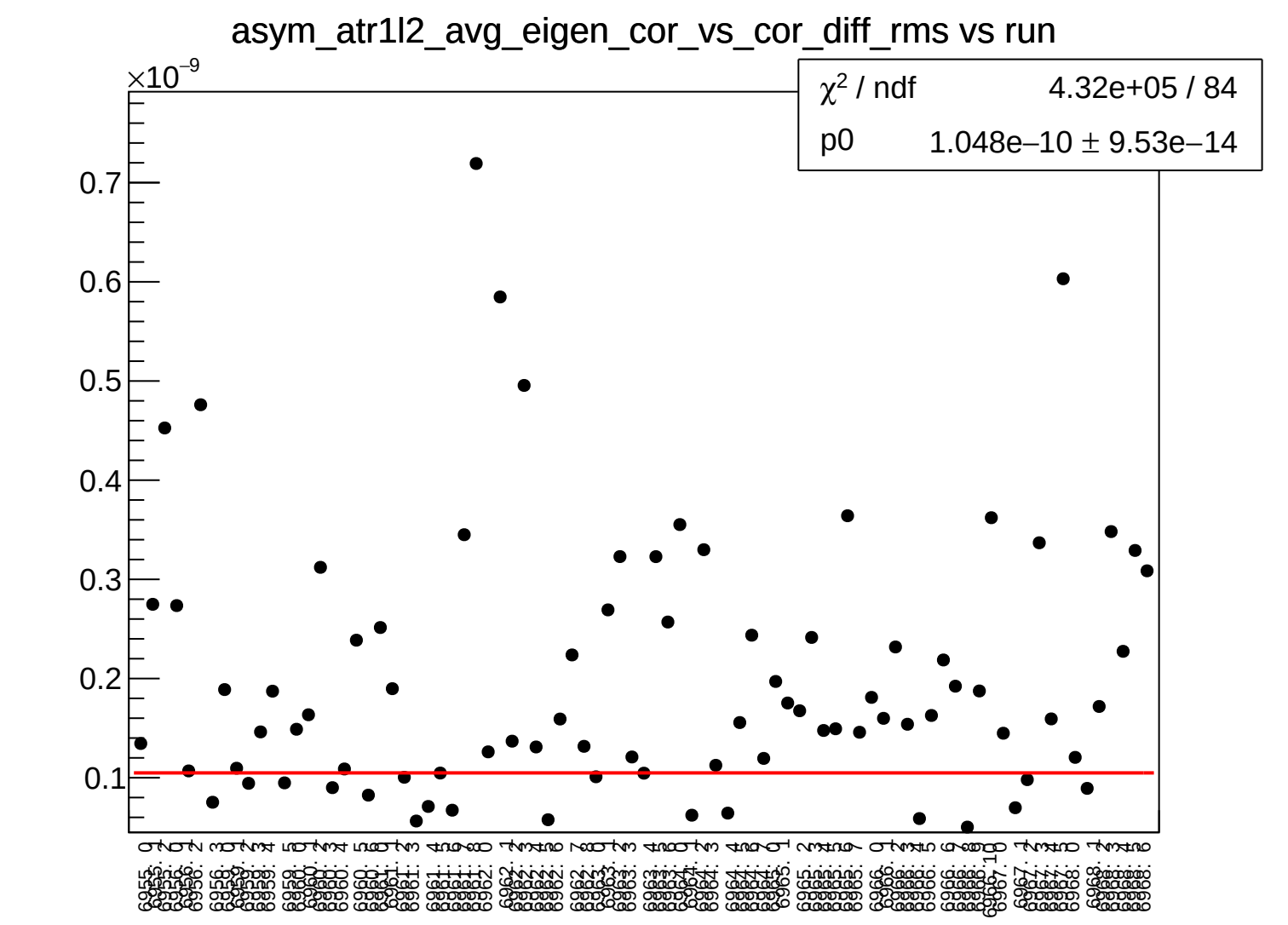

pull1D
Entries 85
Mean −0.01827
Std Dev 1.012

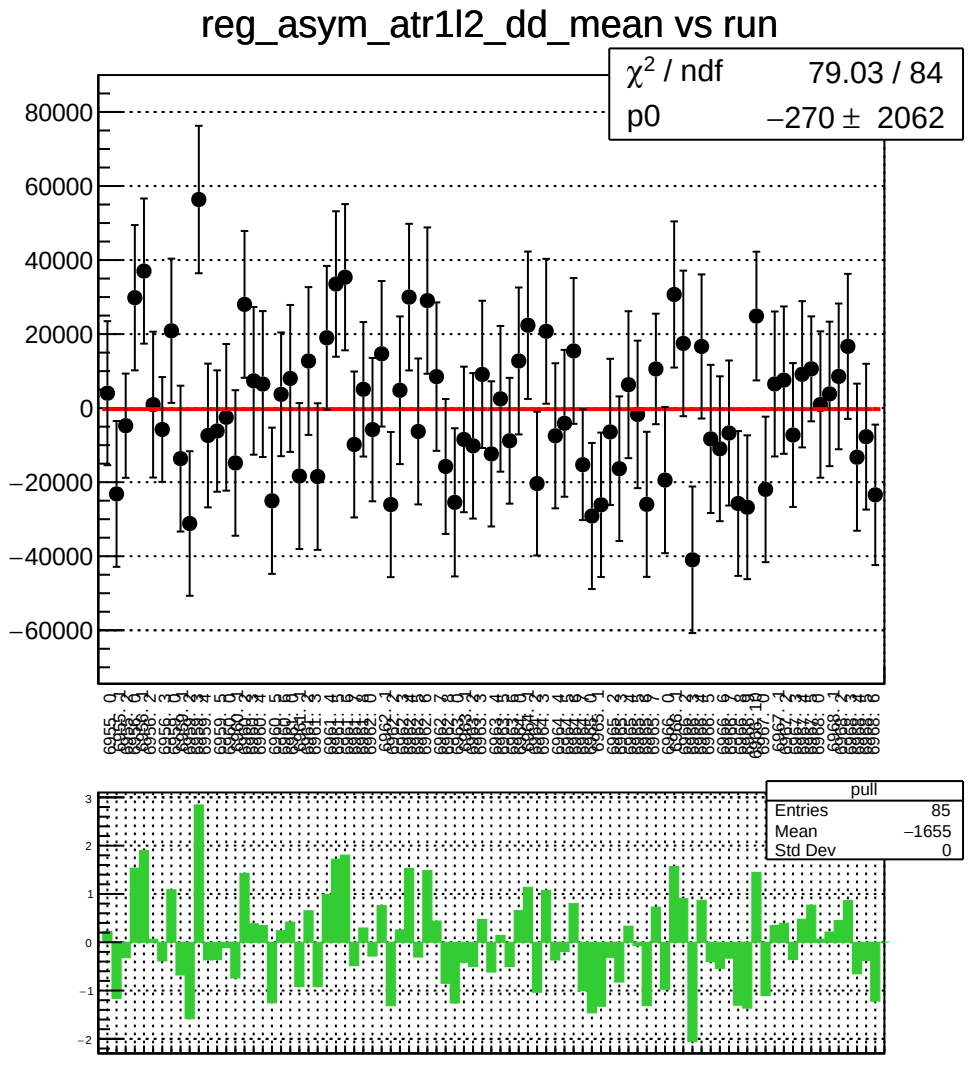

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.034e+04 / 84
p0 384.9 ± 0.3031
600
550
500
450
400
350
300
250

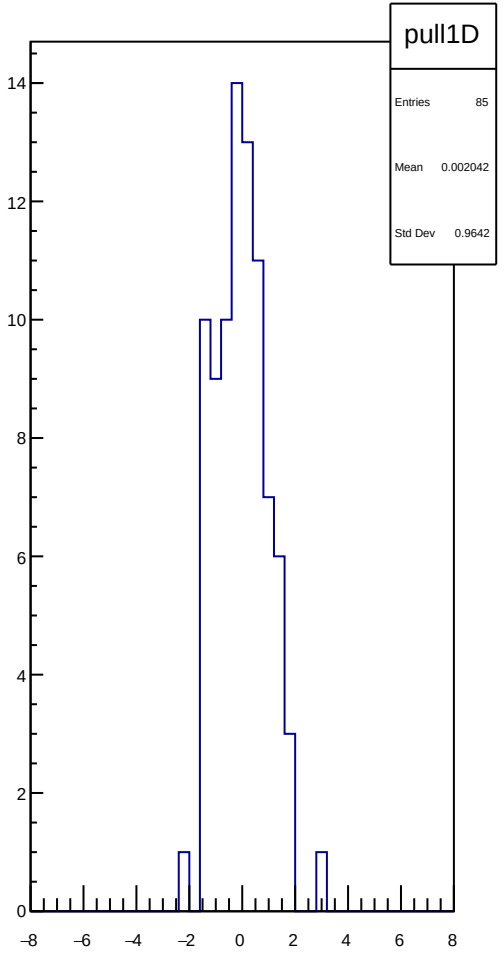
asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run

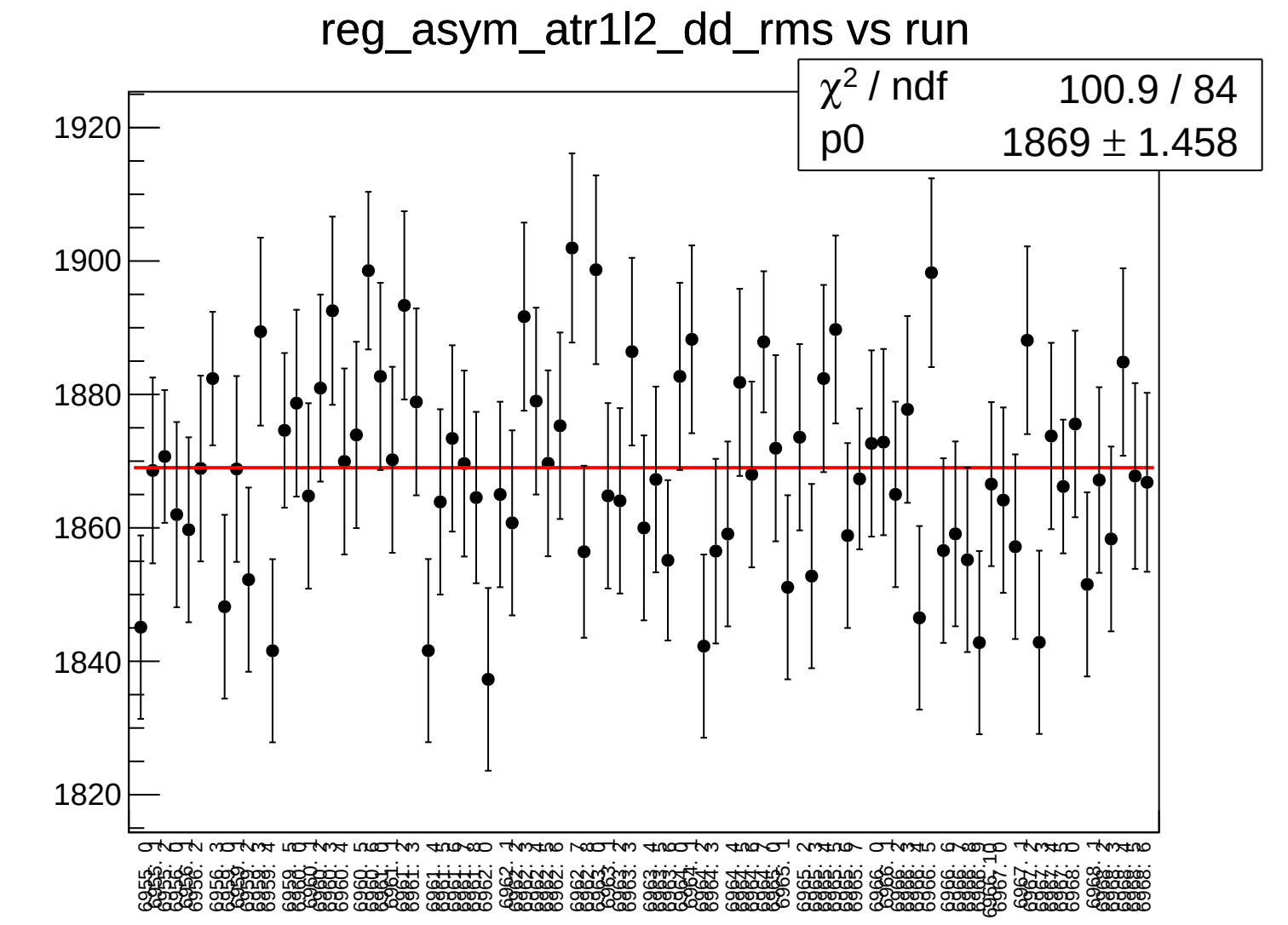


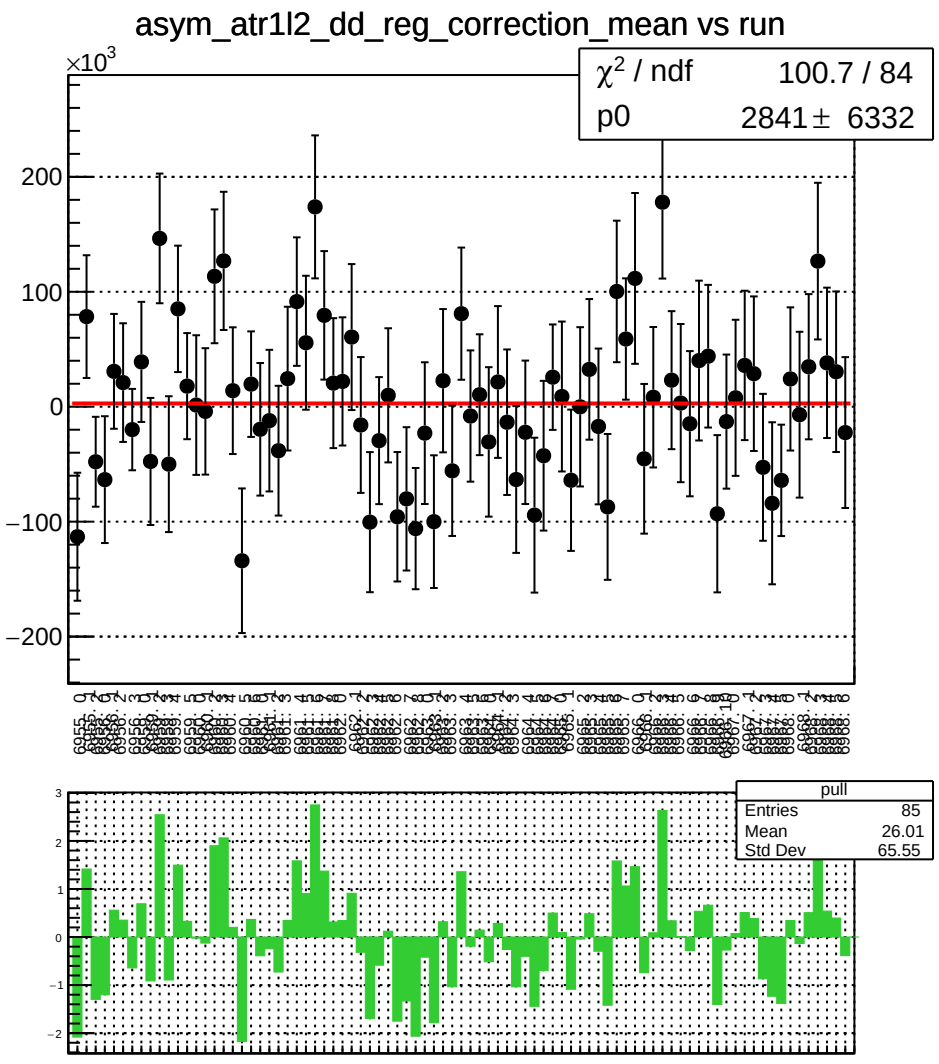



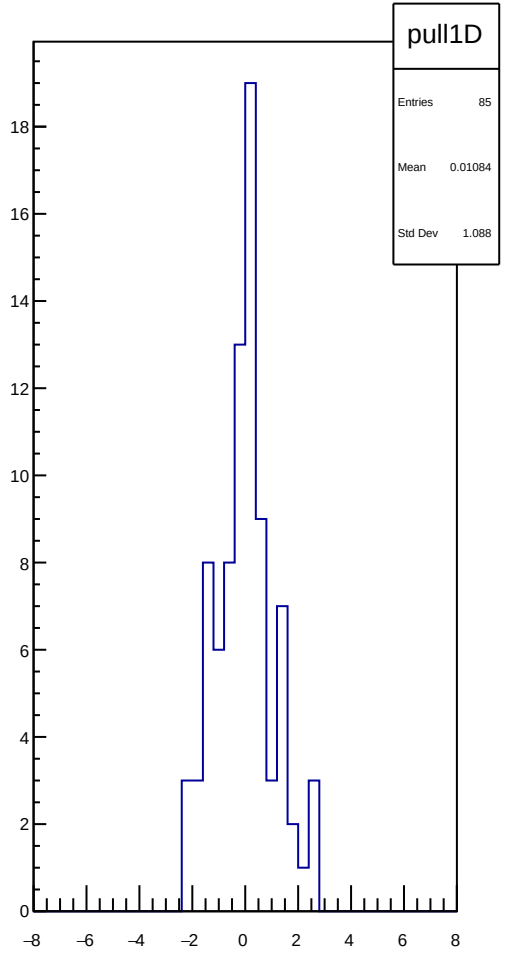

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.32e+05 / 84
p0 1.048e−10 ± 9.53e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

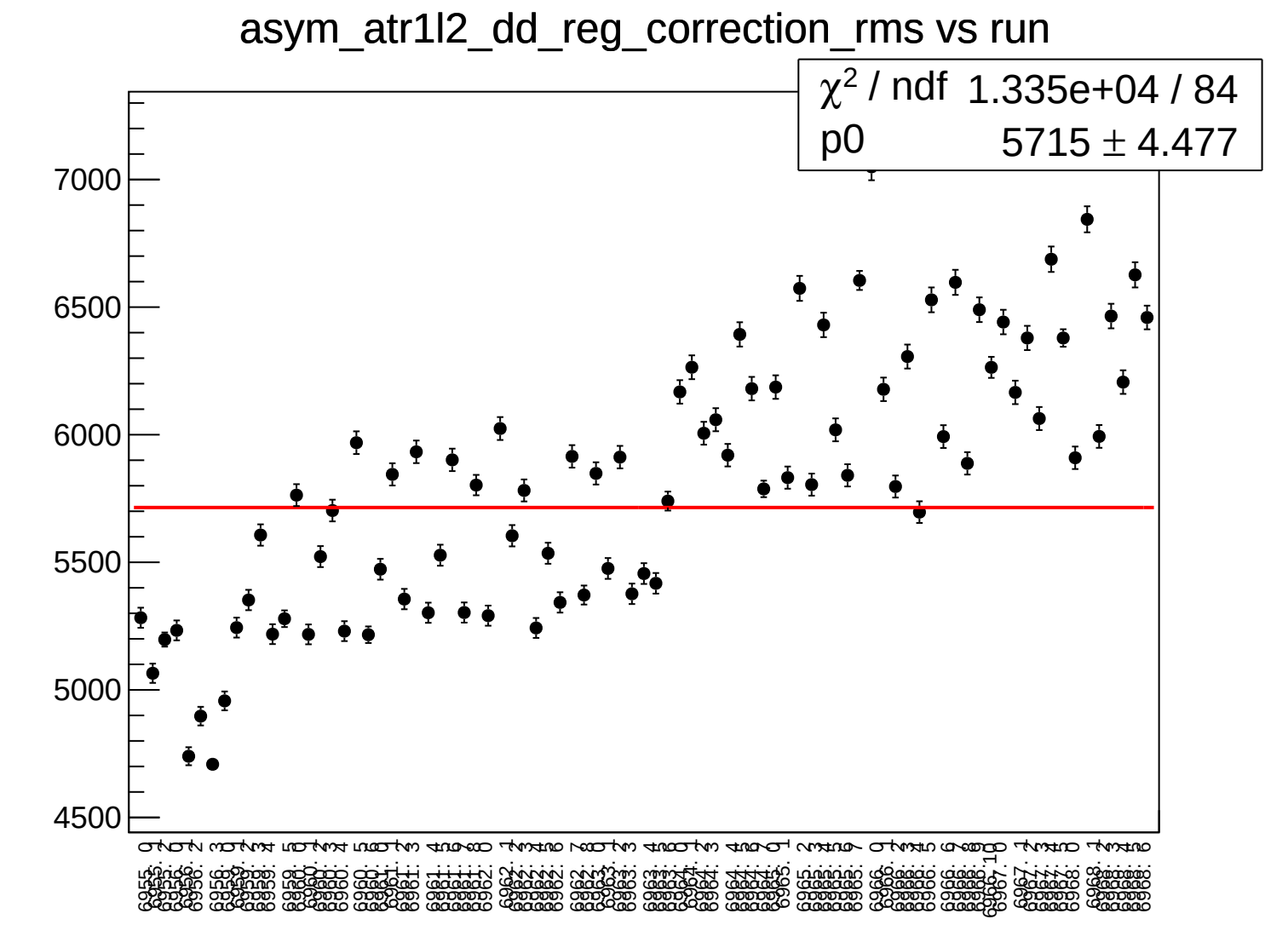

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 79.03 / 84
p0 −270 ± 2062
pull
Entries 85
Mean −1655
Std Dev 0

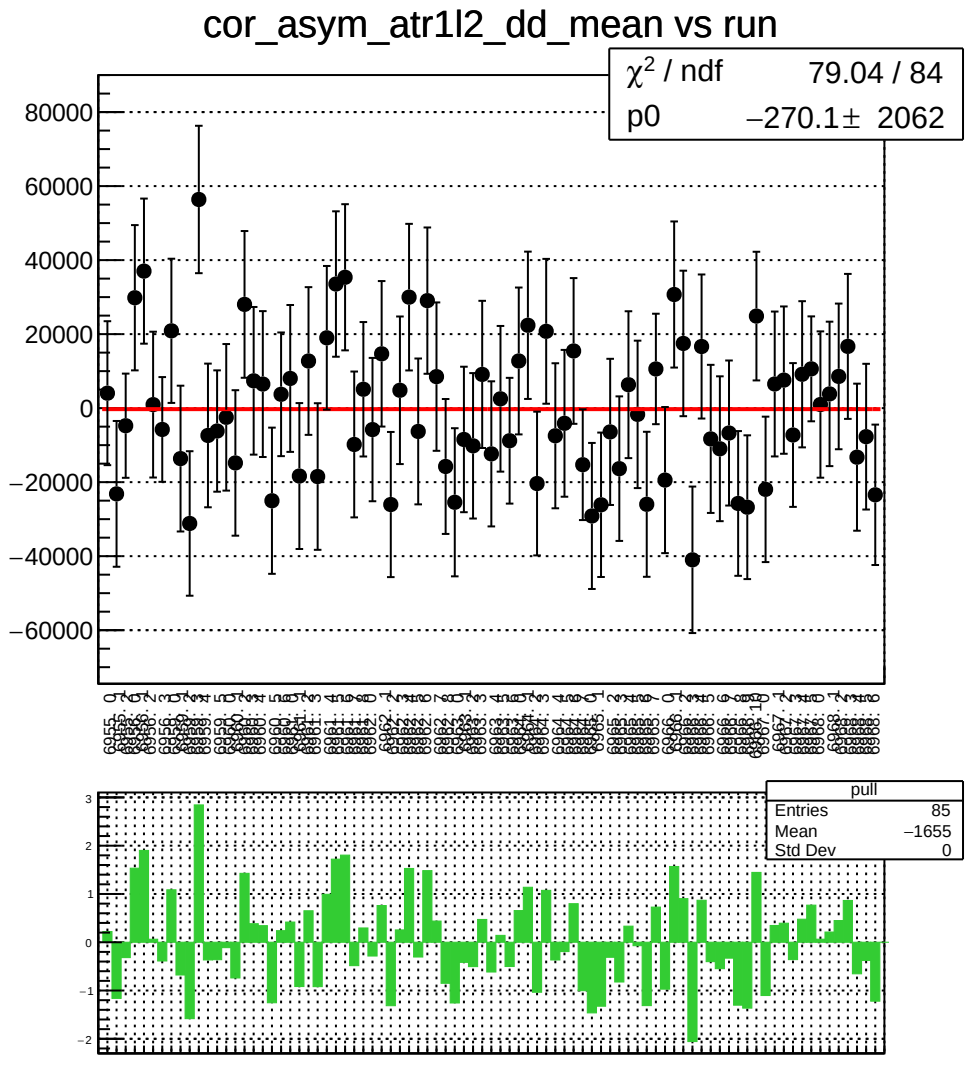

pull1D
Entries 85
Mean 0.002042
Std Dev 0.9642

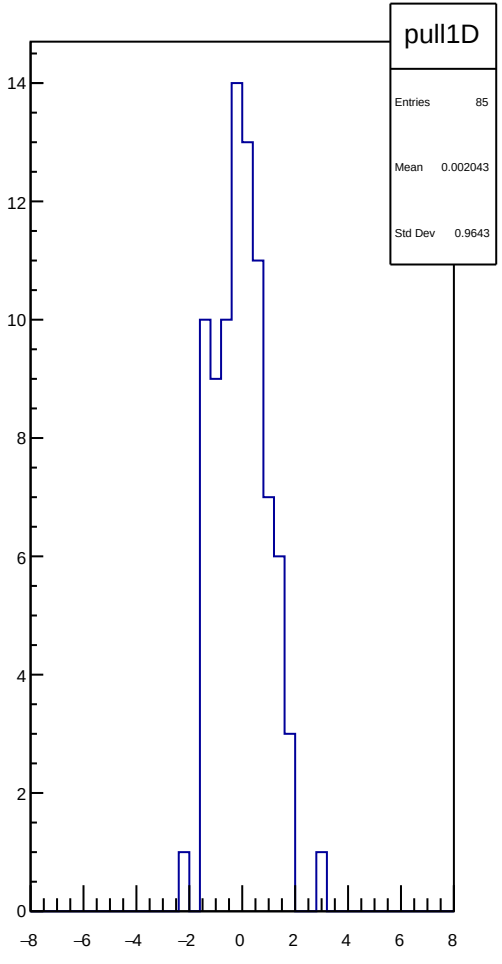

reg_asym_atr1l2_dd_rms vs run
$\chi^2$ / ndf 100.9 / 84
p0 1869 ± 1.458
1920
1900
1880
1860
1840
1820

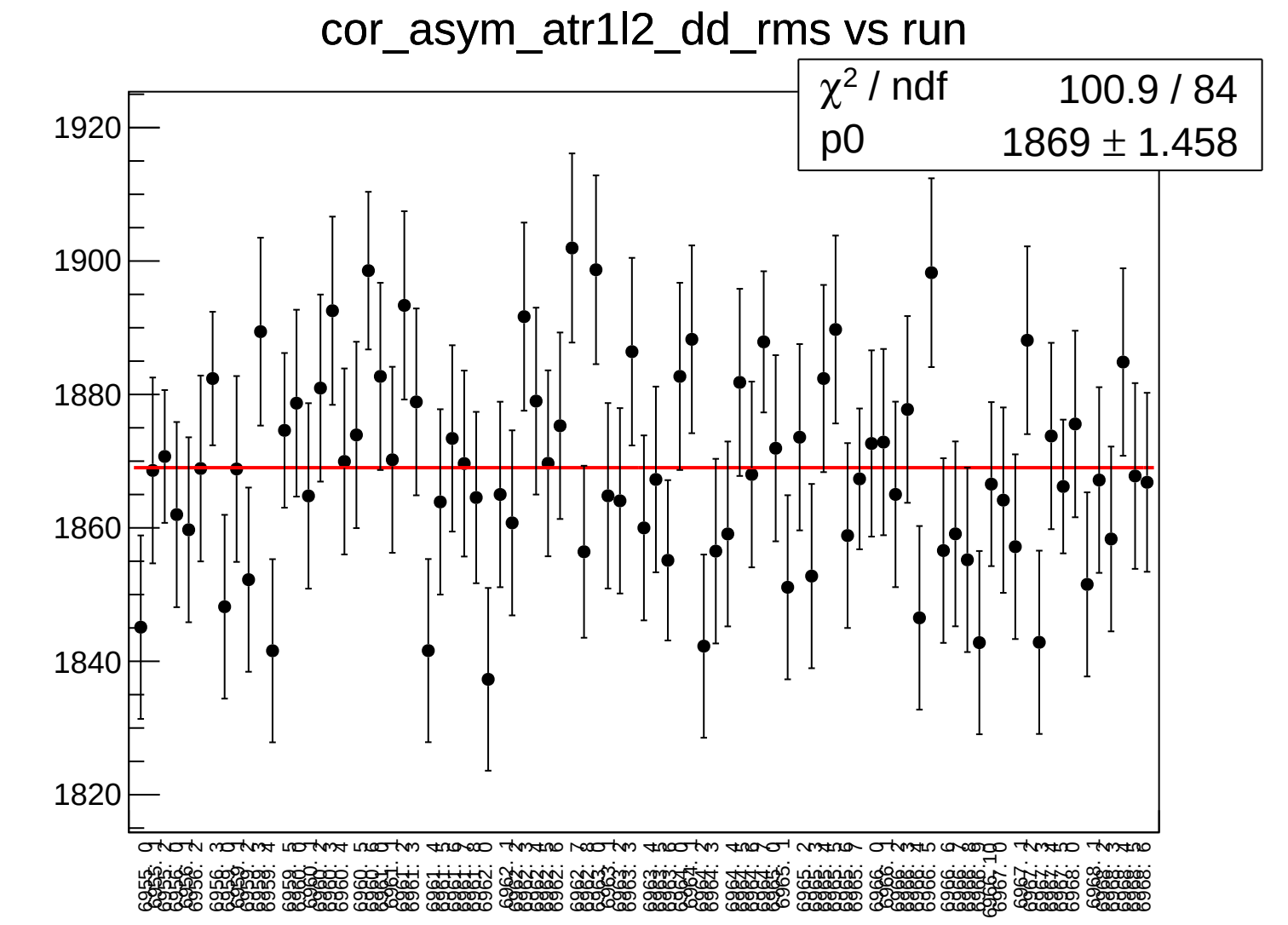

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.7 / 84
p0 2841 ± 6332
200
100
0
−100
−200
pull
Entries 85
Mean 26.01
Std Dev 65.55
3
2
1
0
−1
−2

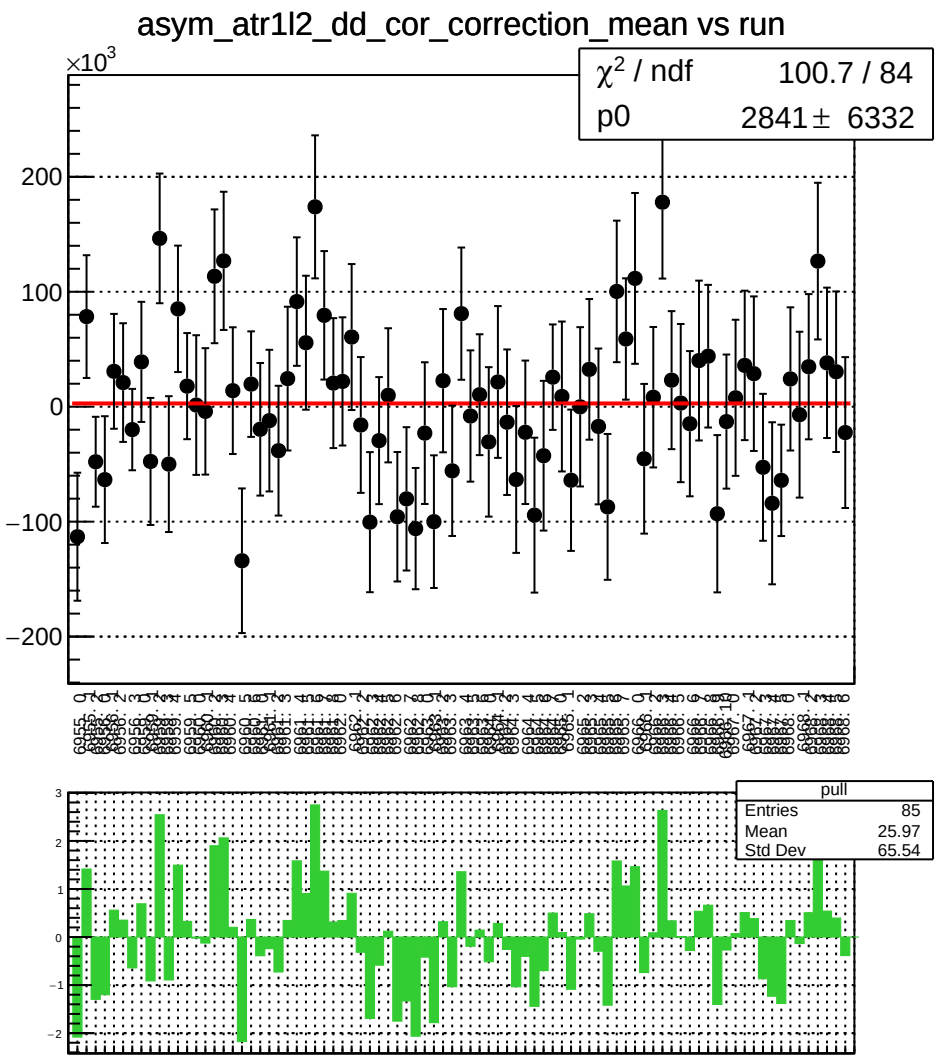

pull1D
Entries 85
Mean 0.01084
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

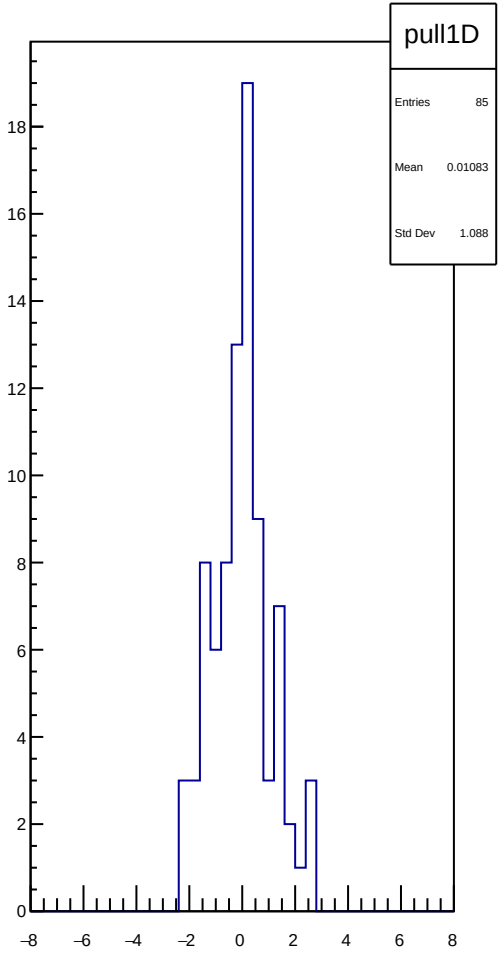

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.335e+04 / 84
p0 5715 ± 4.477
7000
6500
6000
5500
5000
4500

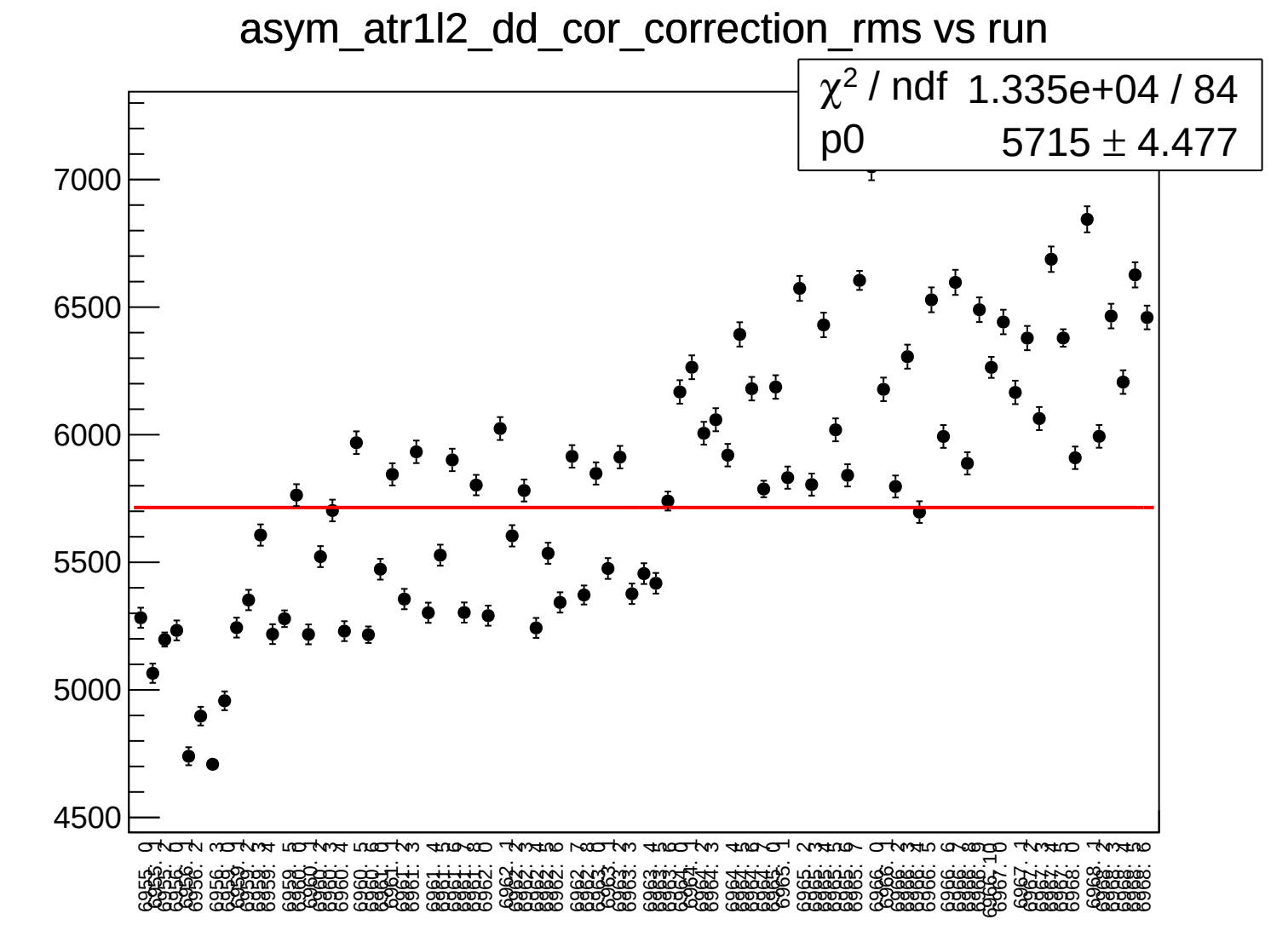

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 79.04 / 84
p0 −270.1± 2062
pull
Entries 85
Mean −1655
Std Dev 0

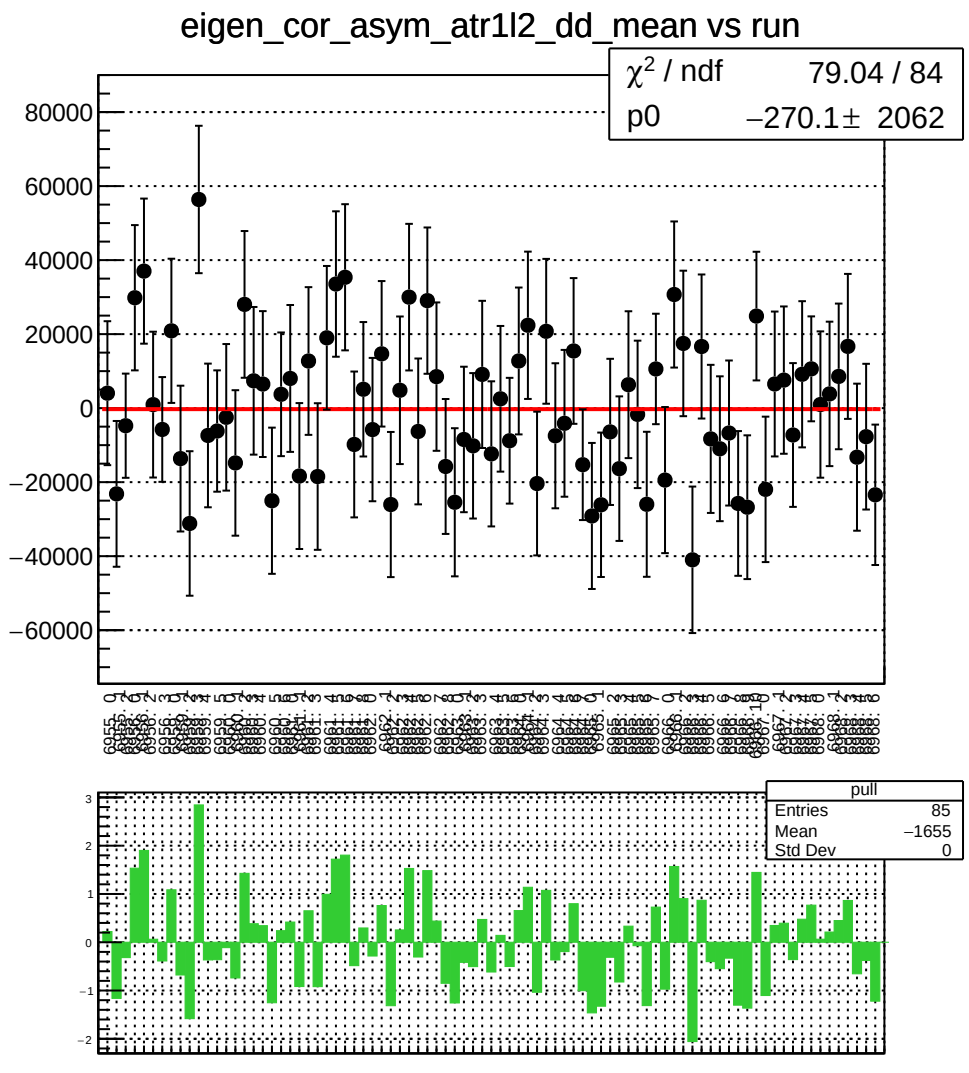

pull1D
Entries 85
Mean 0.002043
Std Dev 0.9643

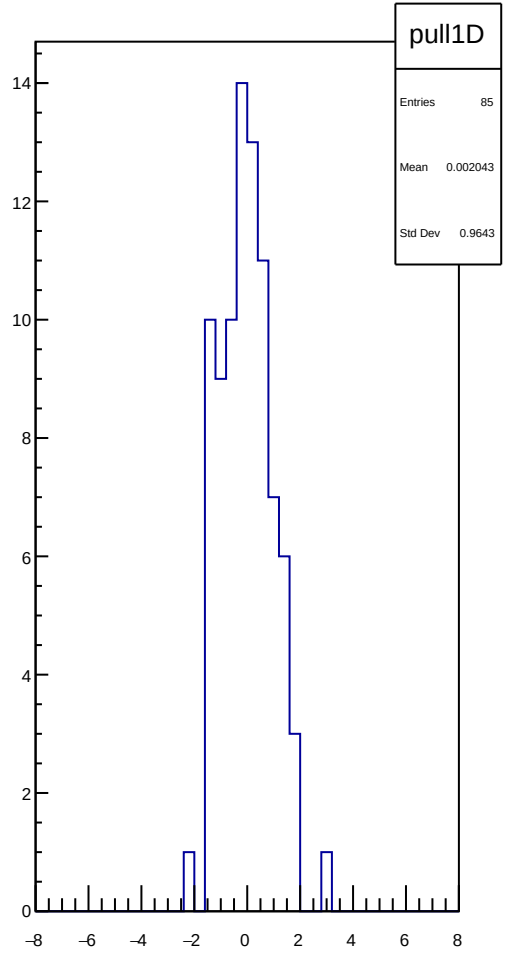

cor_asym_atr1l2_dd_rms vs run
$\chi^2$ / ndf 100.9 / 84
p0 1869 ± 1.458
1920
1900
1880
1860
1840
1820

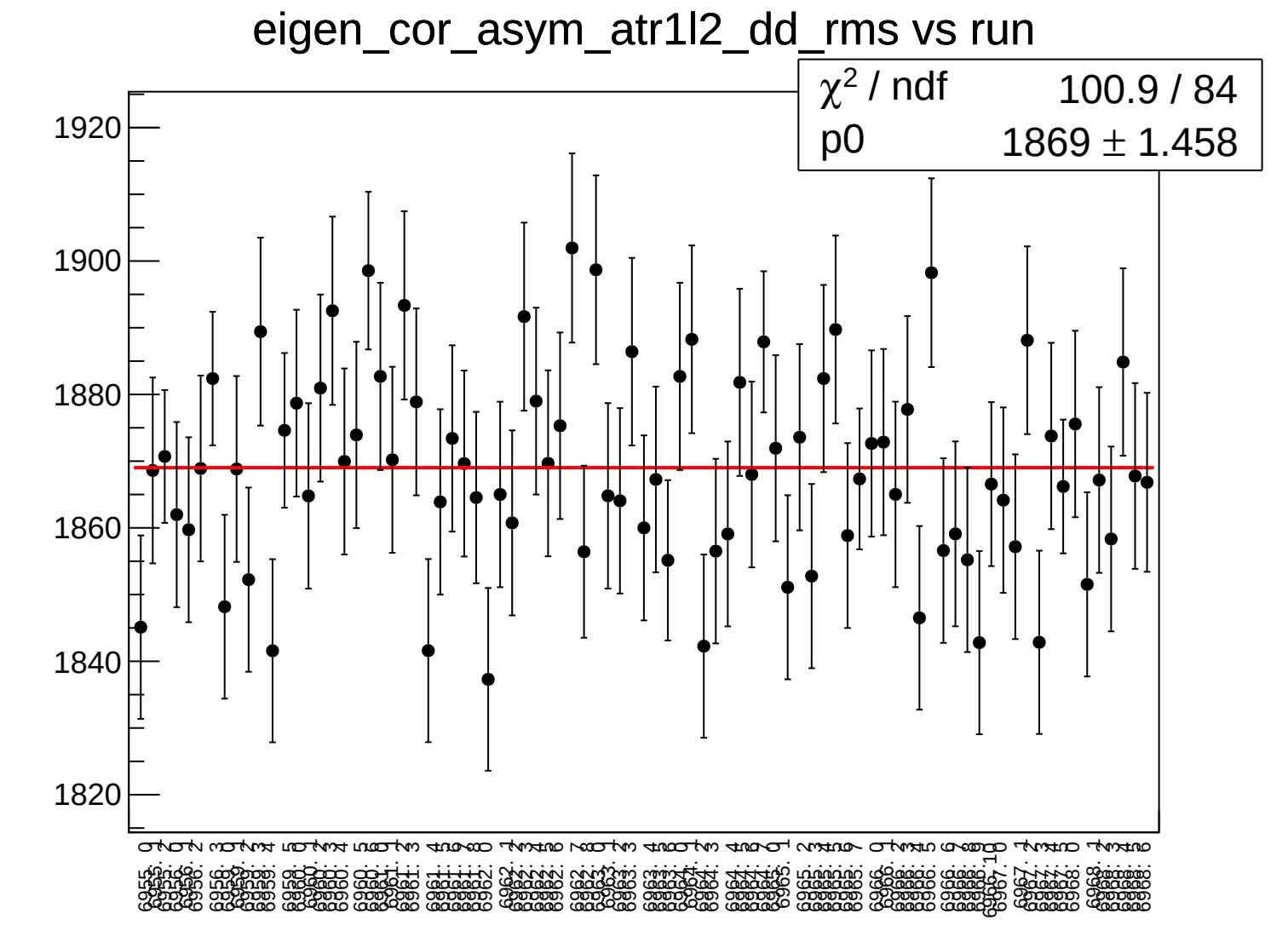

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.7 / 84
p0 2841 ± 6332
200
100
0
−100
−200
pull
Entries 85
Mean 25.97
Std Dev 65.54
3
2
1
0
−1
−2

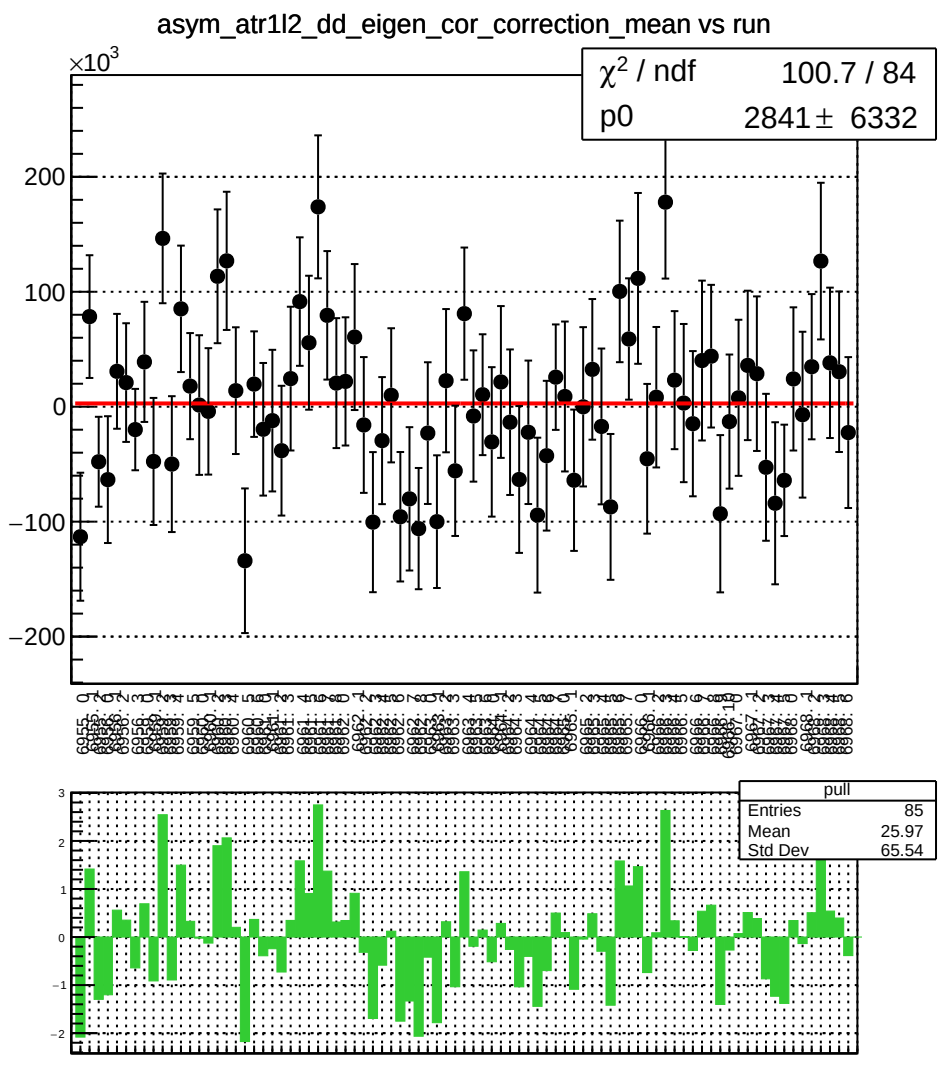

pull1D
Entries 85
Mean 0.01083
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

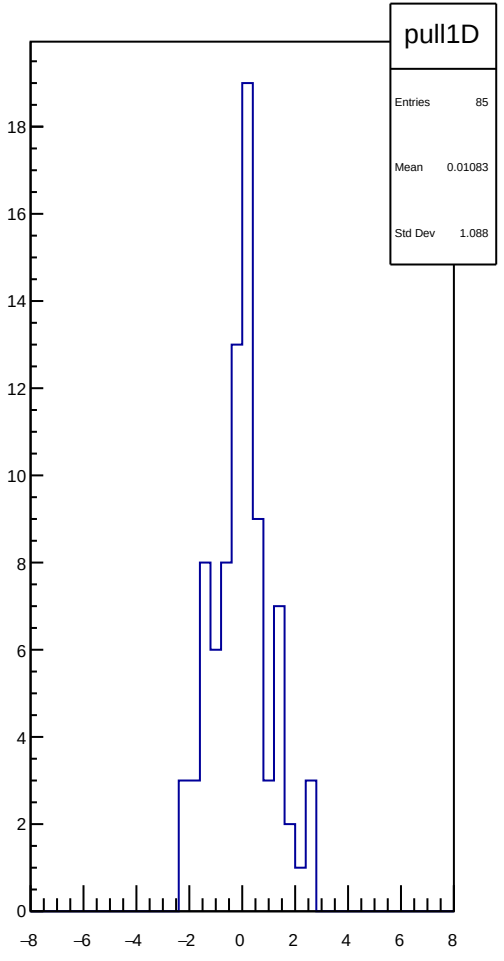

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.335e+04 / 84
p0 5715 ± 4.477
7000
6500
6000
5500
5000
4500

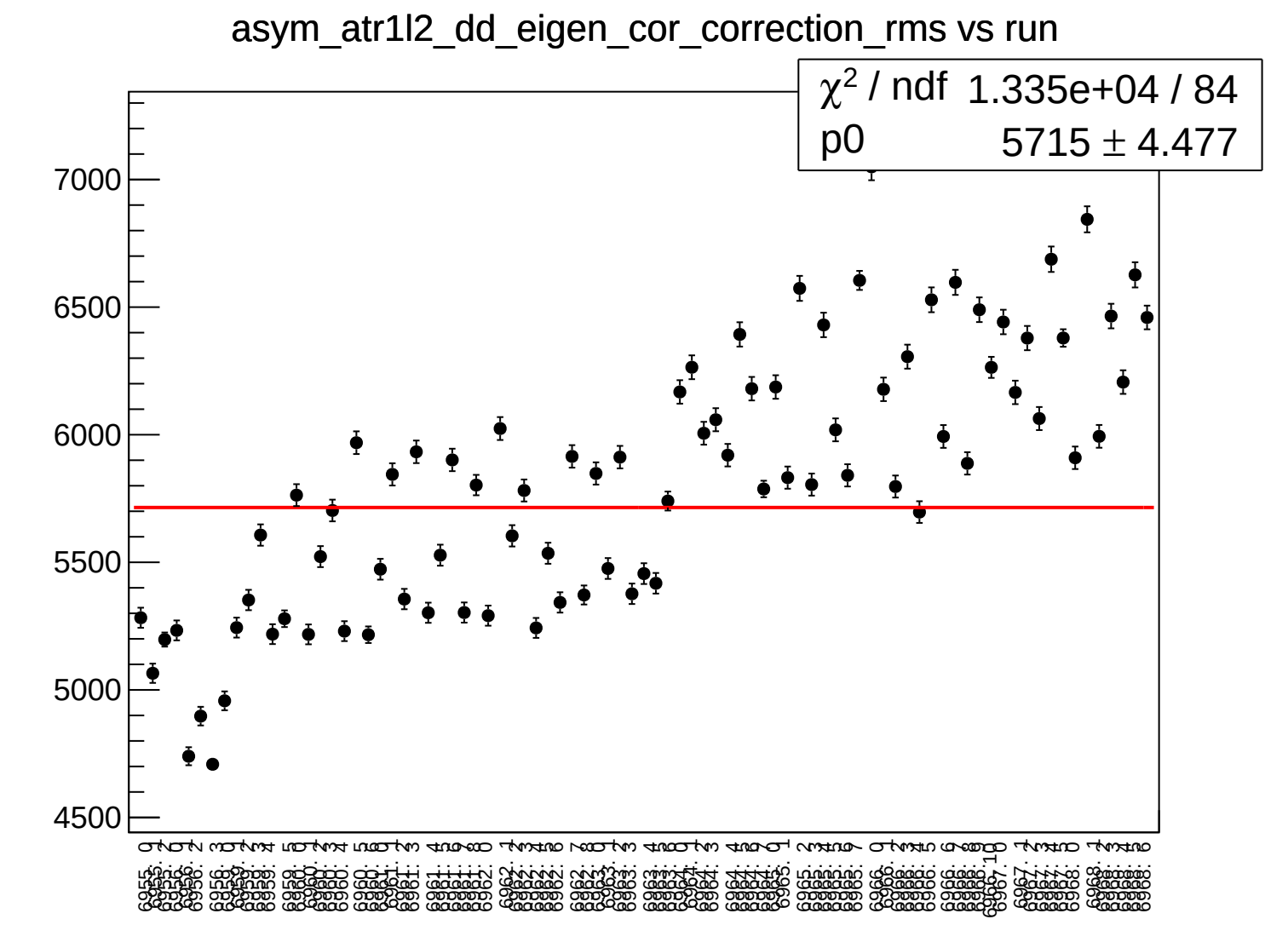

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 79.04 / 84
p0 −270.1± 2062
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −1655
Std Dev 0
3
2
1
0
−1
−2

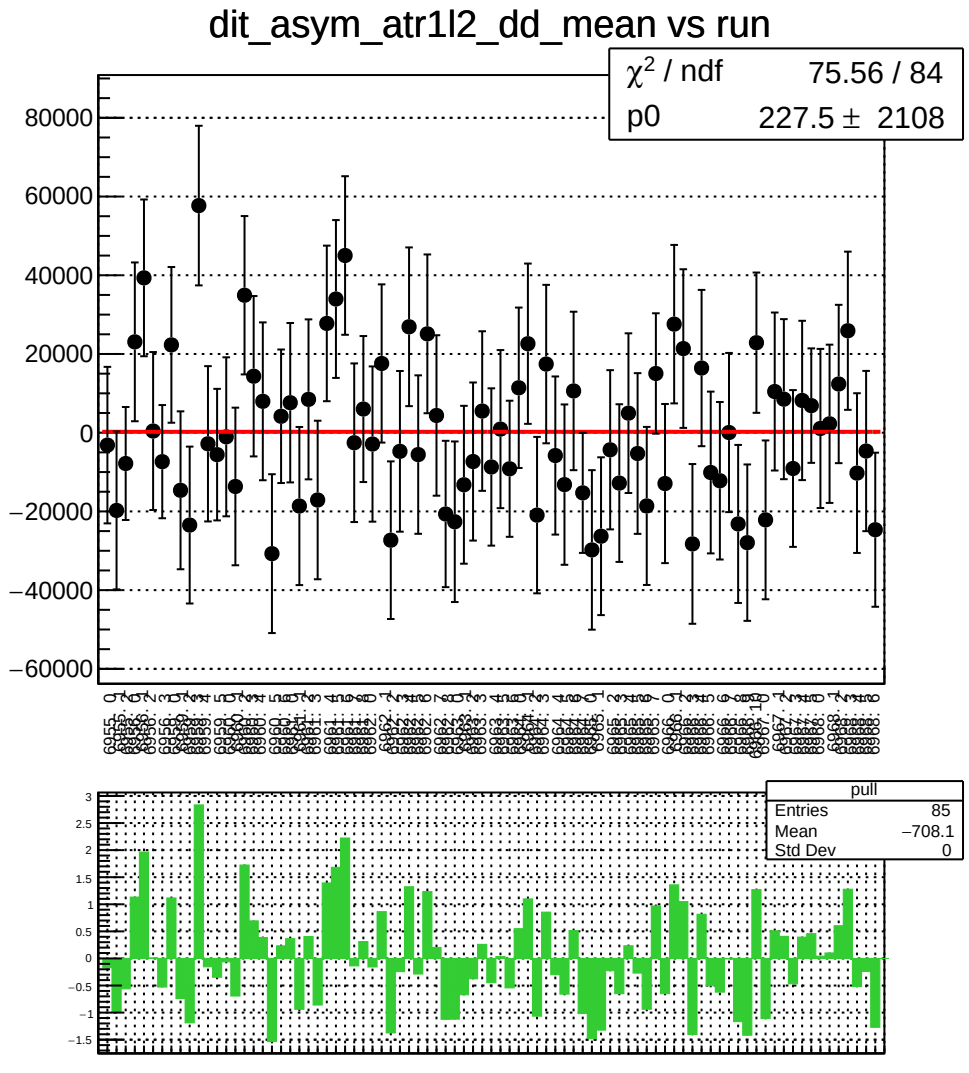

pull1D
Entries 85
Mean 0.002043
Std Dev 0.9643
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

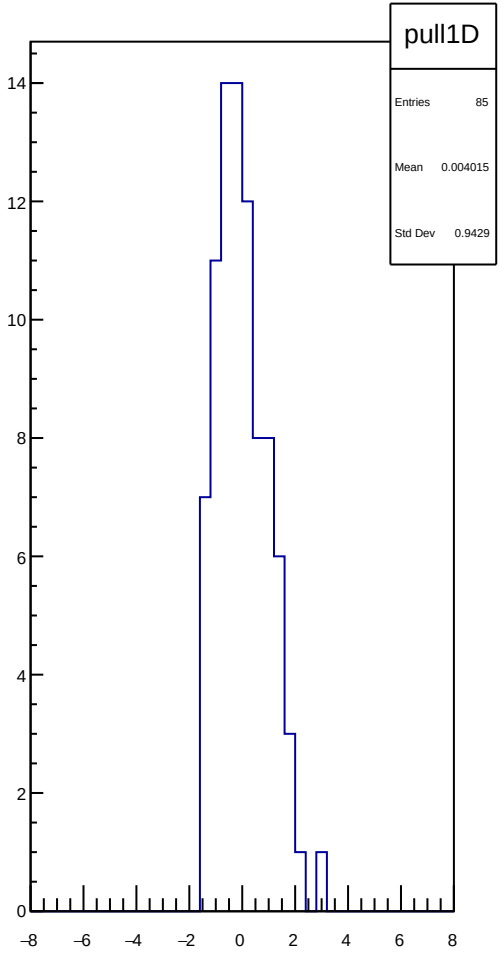

eigen_cor_asym_atr1l2_dd_rms vs run
$\chi^2$ / ndf 100.9 / 84
p0 1869 ± 1.458
1920
1900
1880
1860
1840
1820

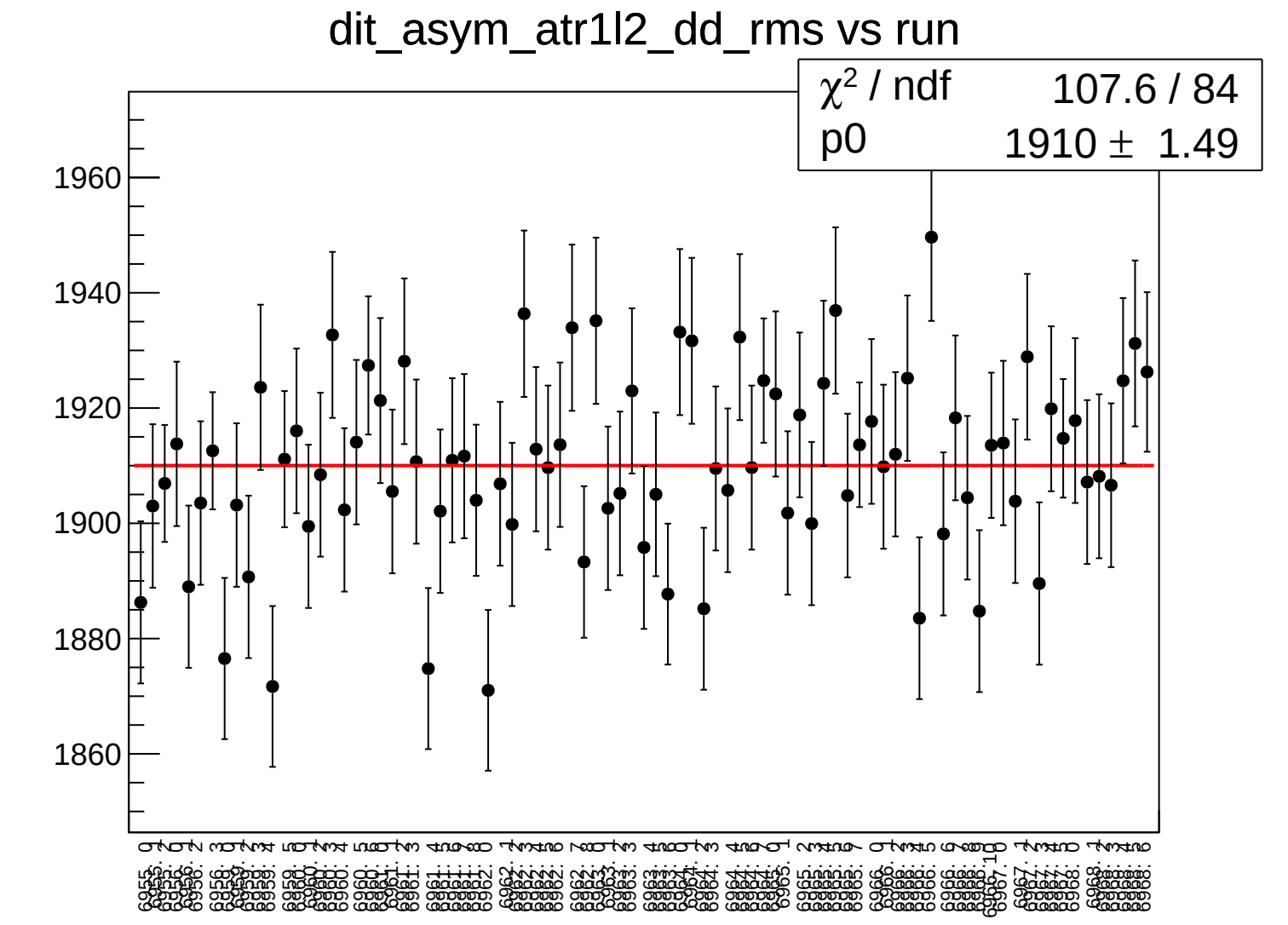

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.7 / 84
p0 2841 ± 6332
pull
Entries 85
Mean 25.97
Std Dev 65.54

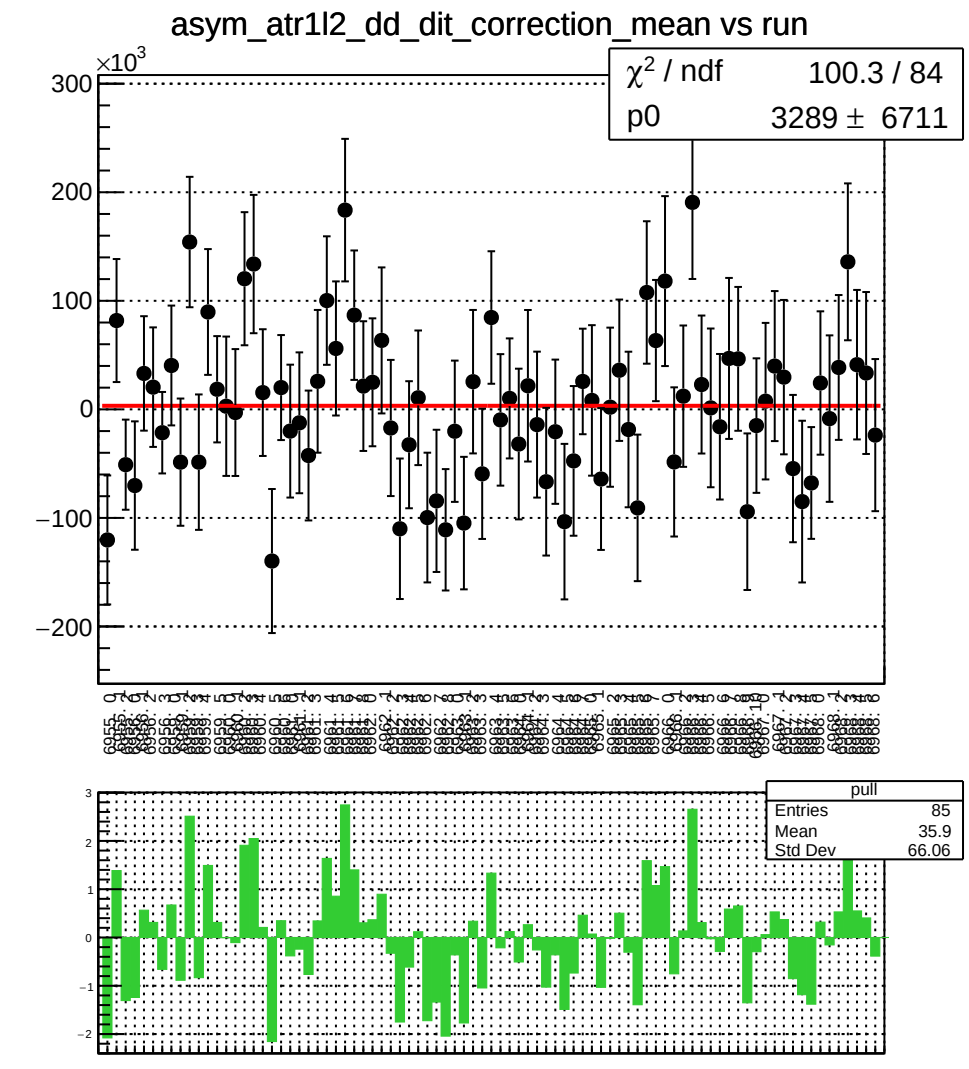

pull1D
Entries 85
Mean 0.01083
Std Dev 1.088

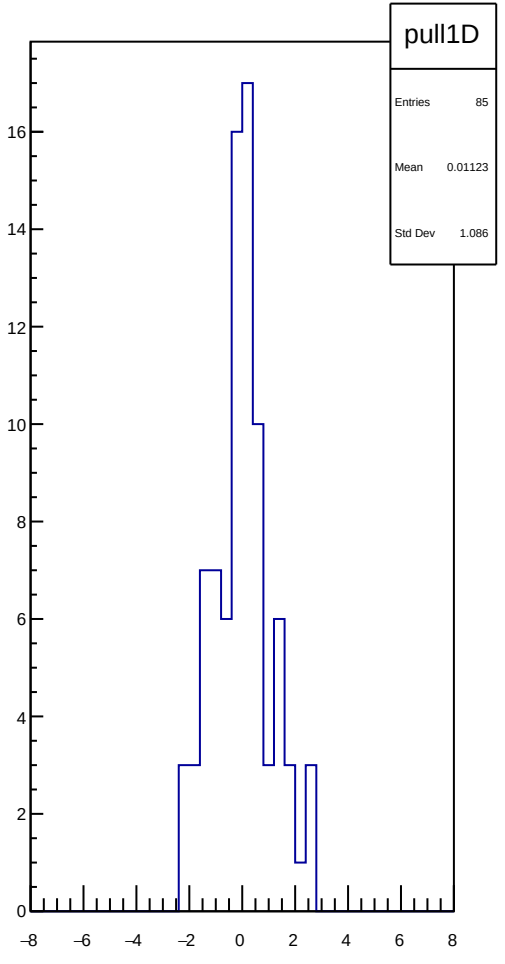

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.335e+04 / 84
p0 5715 ± 4.477
7000
6500
6000
5500
5000
4500

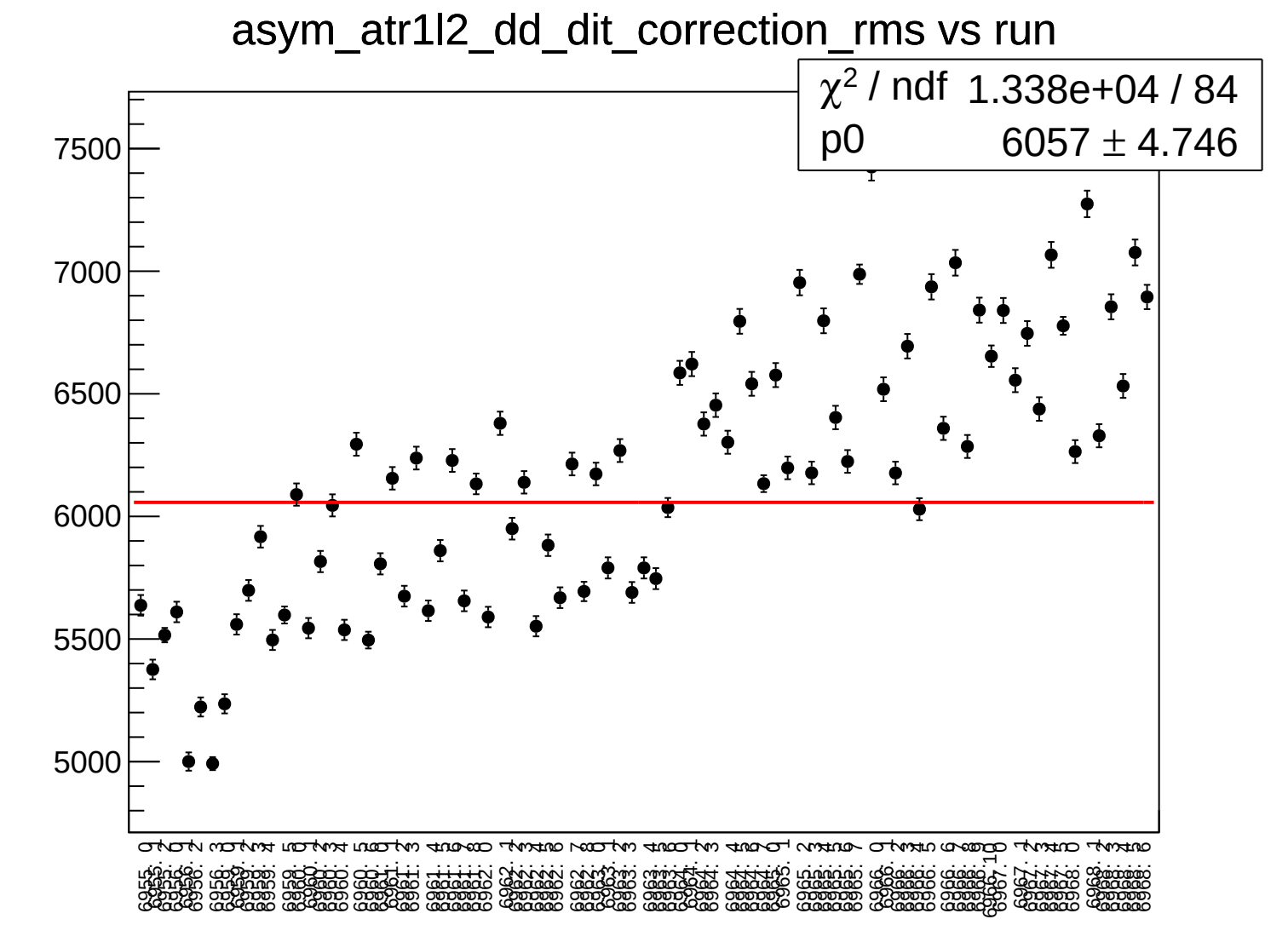

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 75.56 / 84
p0 227.5 ± 2108
pull
Entries 85
Mean −708.1
Std Dev 0

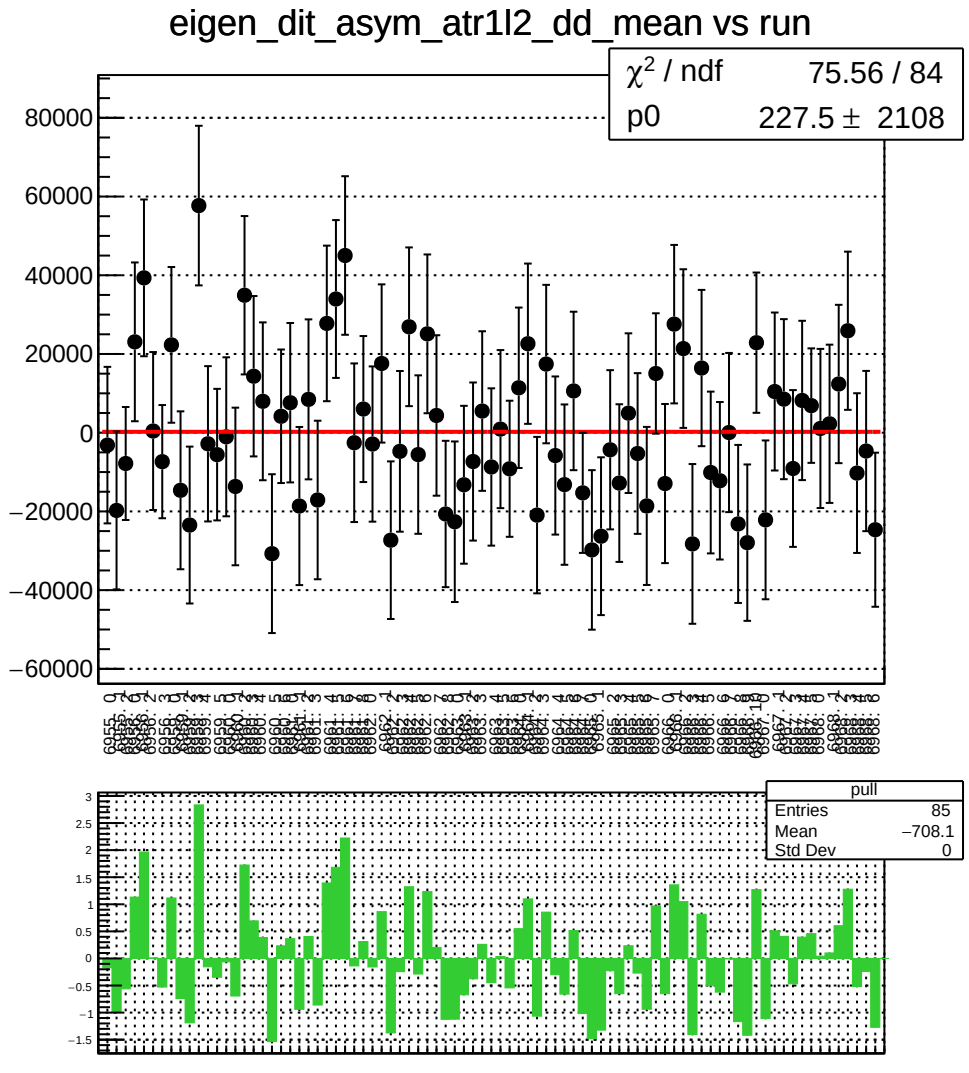

pull1D
Entries 85
Mean 0.004015
Std Dev 0.9429

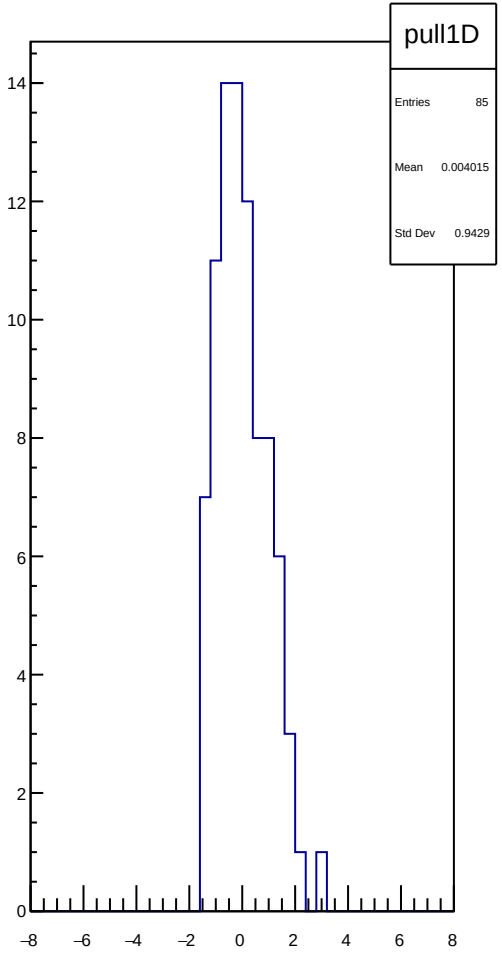

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 107.6 / 84
p0 1910 ± 1.49
1960
1940
1920
1900
1880
1860

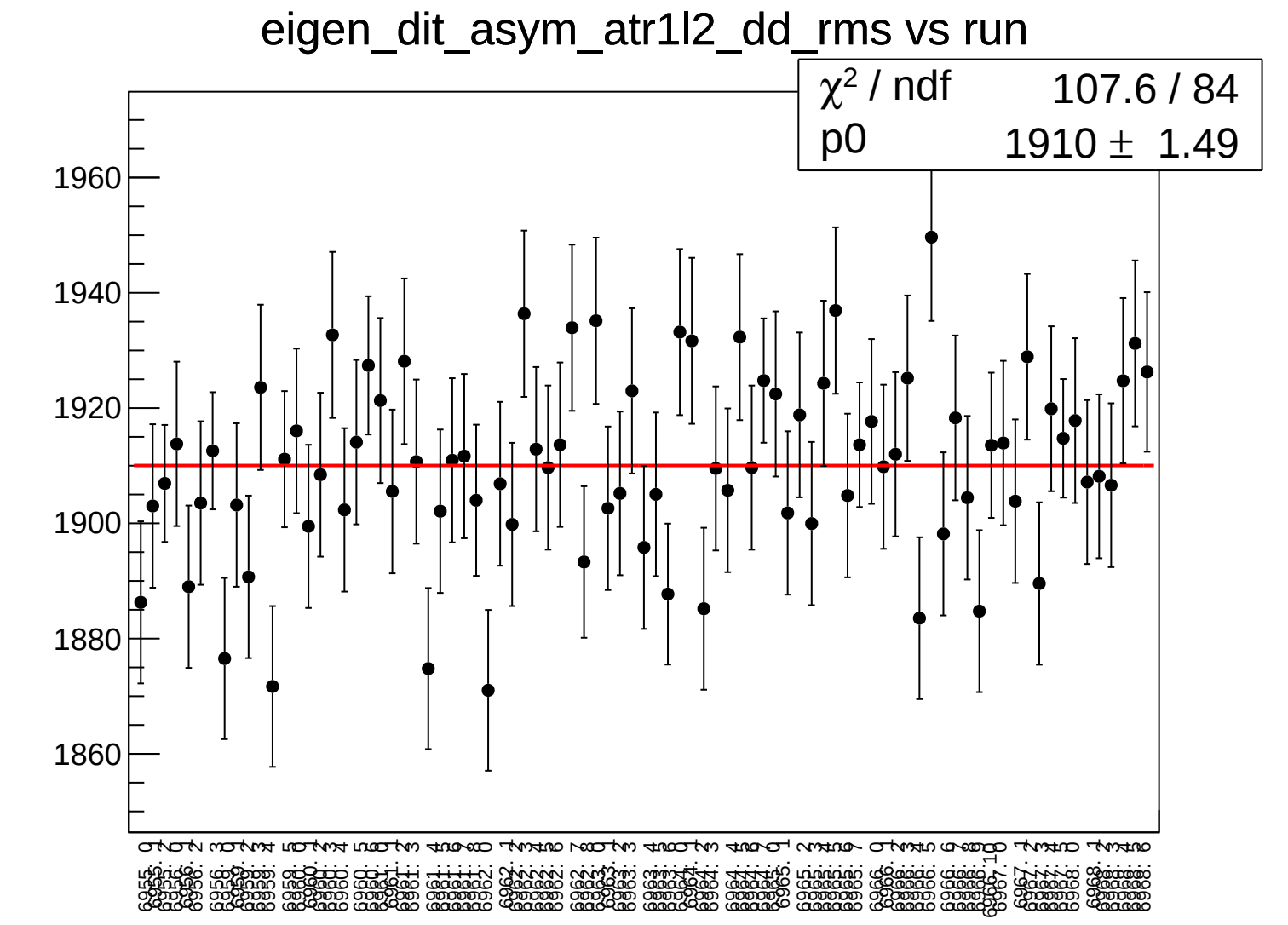

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 100.3 / 84
p0 3289 ± 6711
300
200
100
0
−100
−200
pull
Entries 85
Mean 35.9
Std Dev 66.06
3
2
1
0
−1
−2

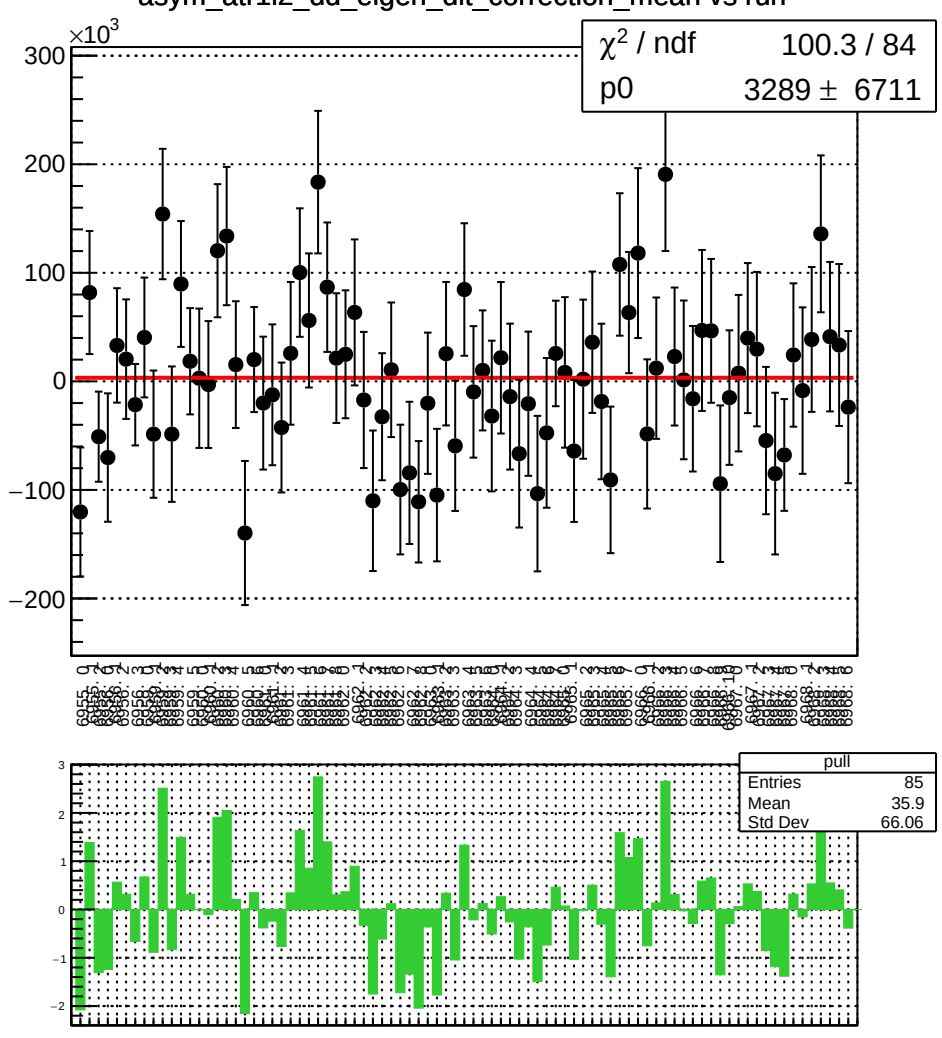

pull1D
Entries 85
Mean 0.01123
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

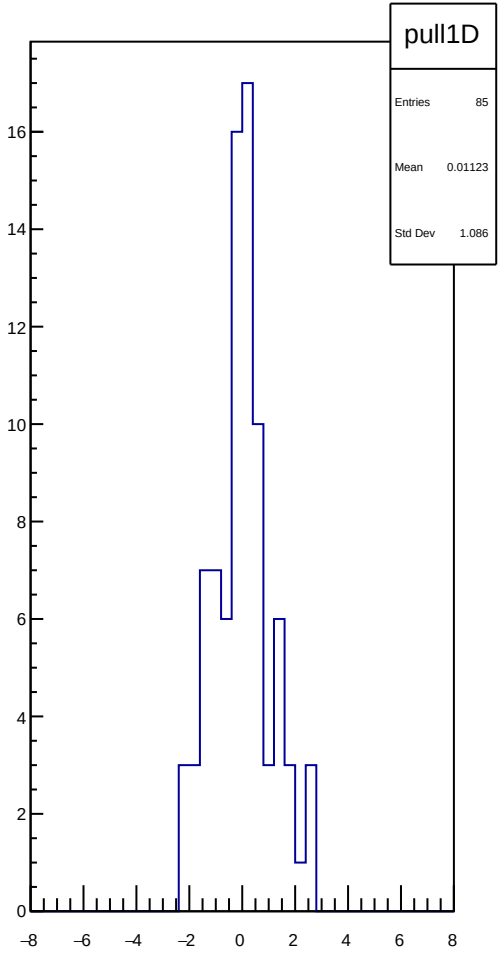

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.338e+04 / 84
p0 6057 ± 4.746
7500
7000
6500
6000
5500
5000

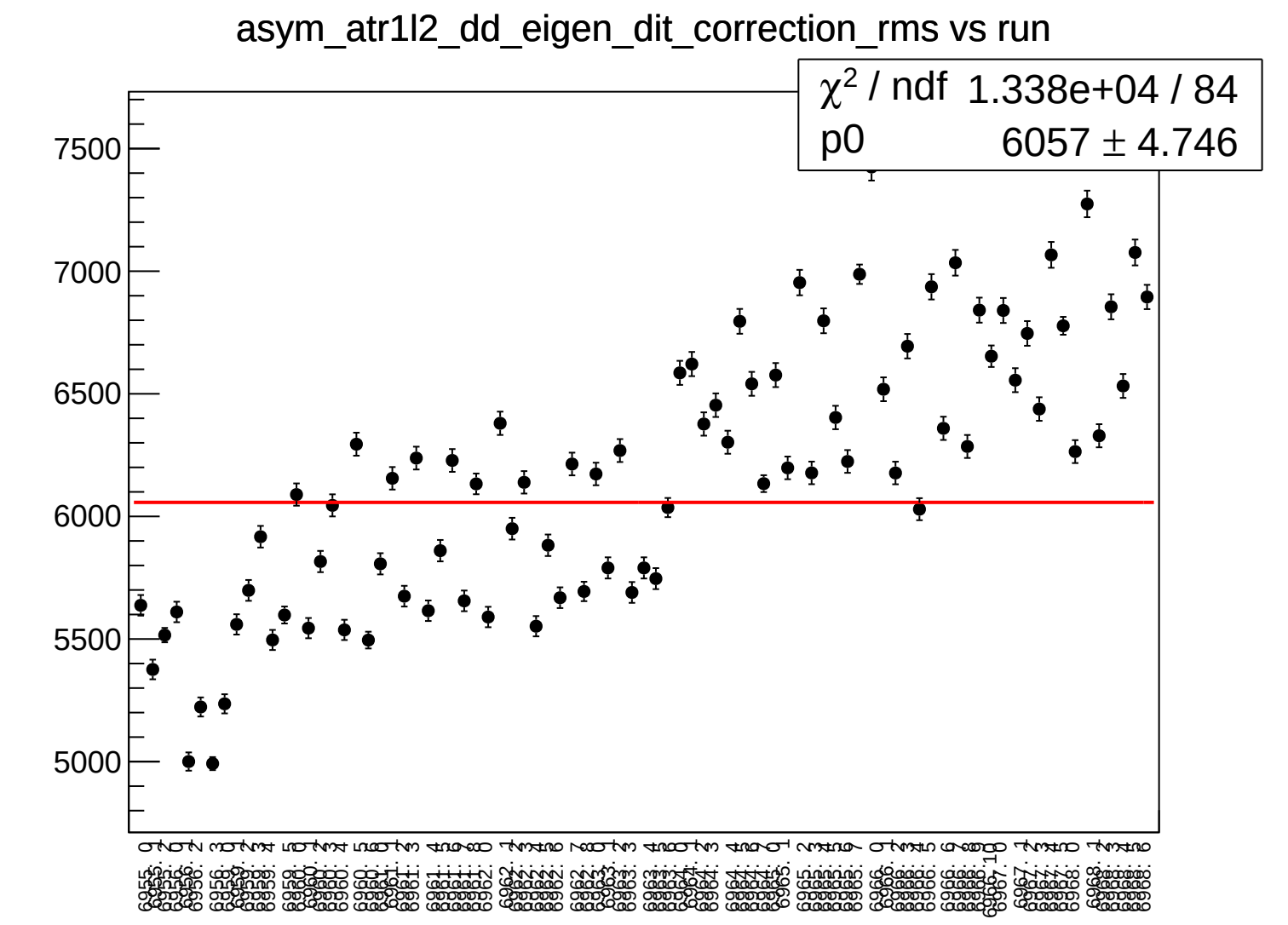

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 75.56 / 84
p0 227.5 ± 2108
pull
Entries 85
Mean −708.1
Std Dev 0

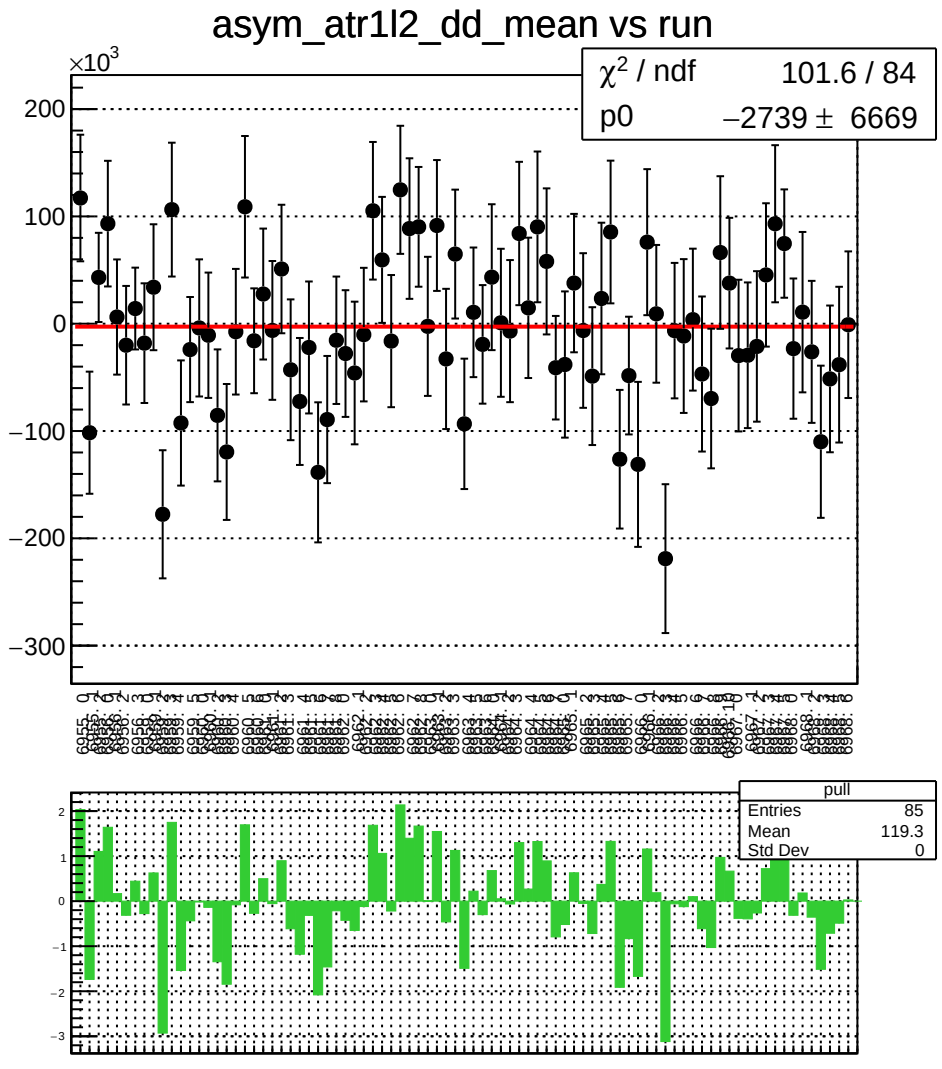

pull1D
Entries 85
Mean 0.004015
Std Dev 0.9429

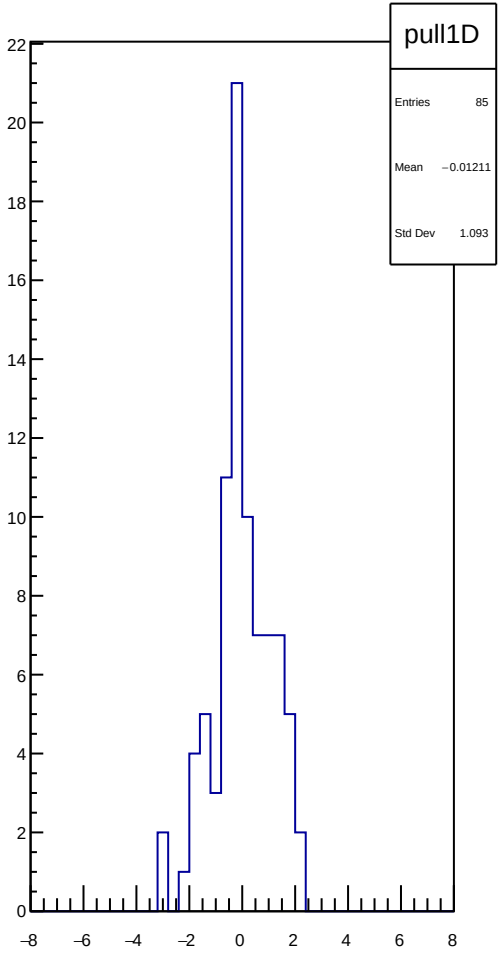

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 107.6 / 84
p0 1910 ± 1.49
1960
1940
1920
1900
1880
1860

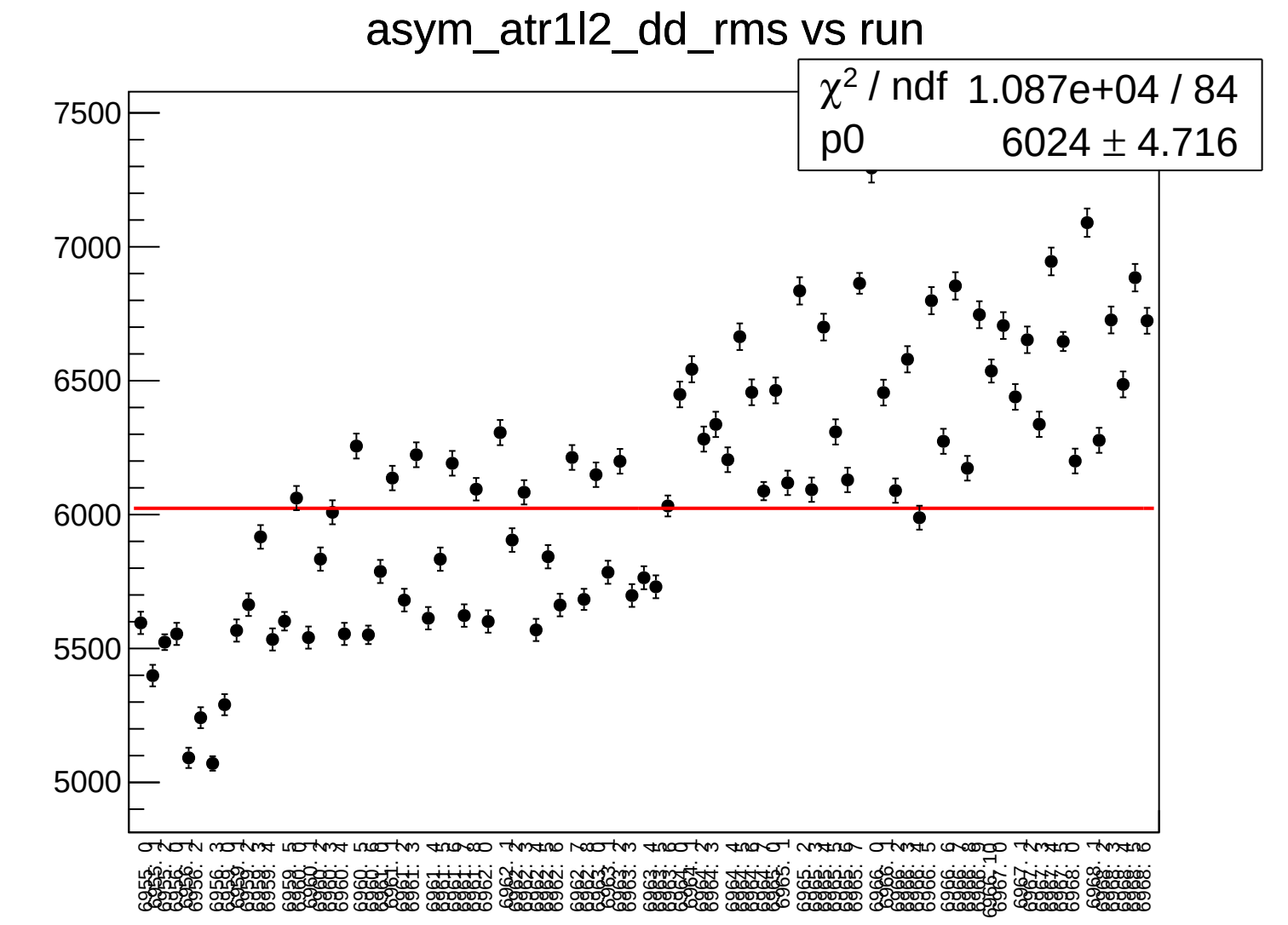

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.3 / 84
p0 3289 ± 6711
pull
Entries 85
Mean 35.9
Std Dev 66.06

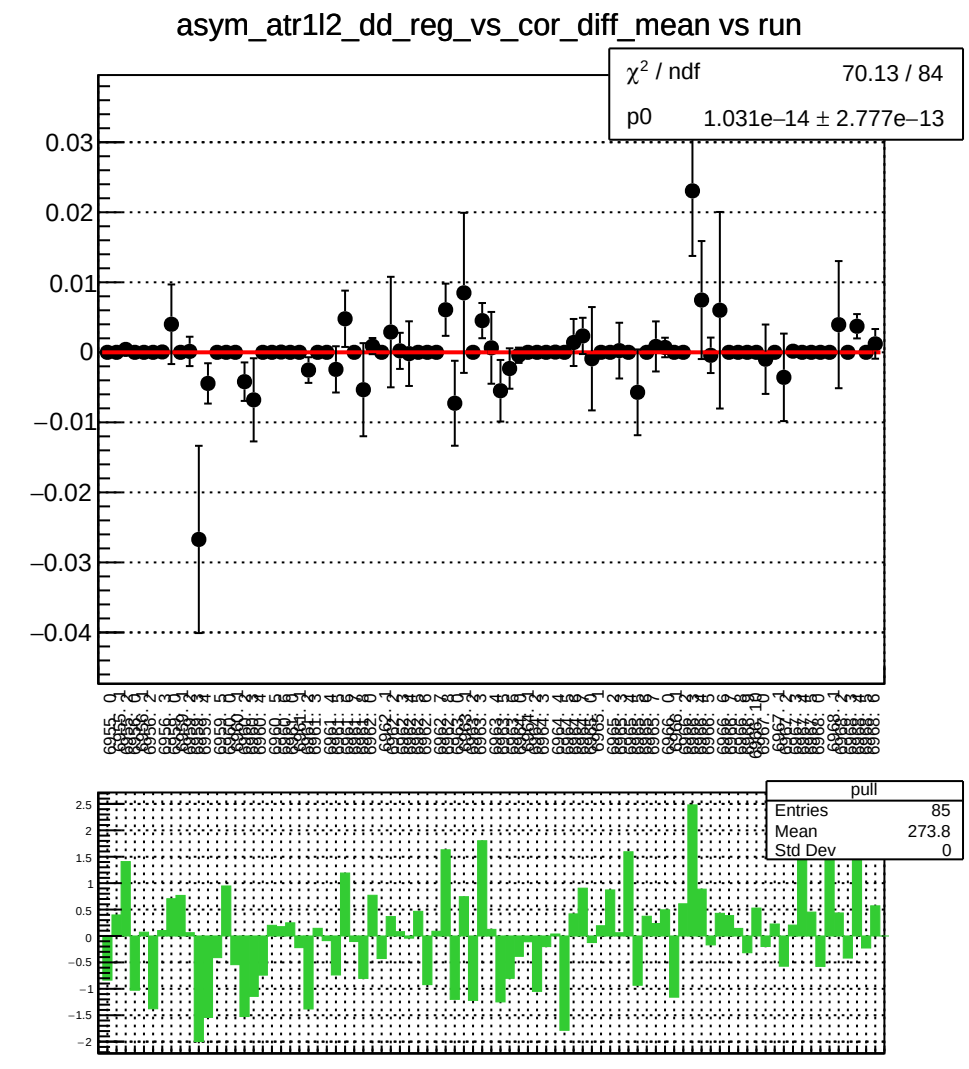

pull1D
Entries 85
Mean 0.01123
Std Dev 1.086

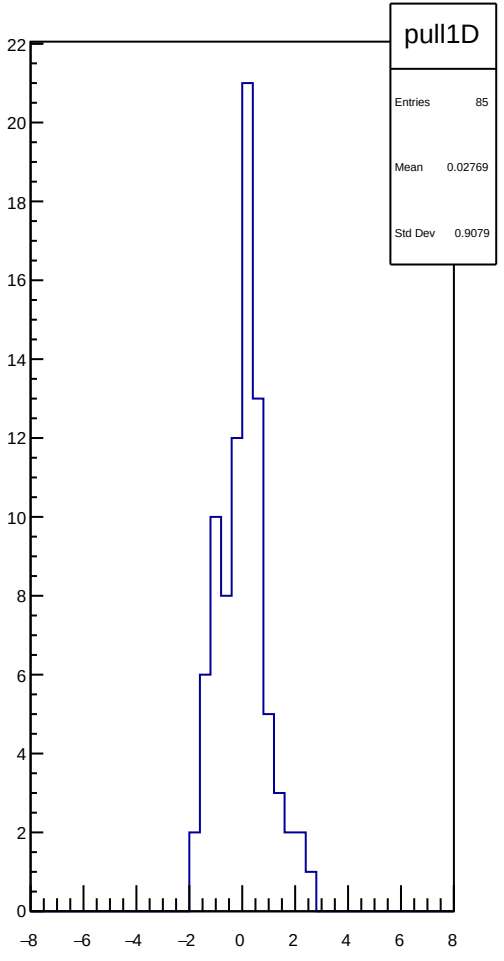

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.338e+04 / 84
p0 6057 ± 4.746
7500
7000
6500
6000
5500
5000

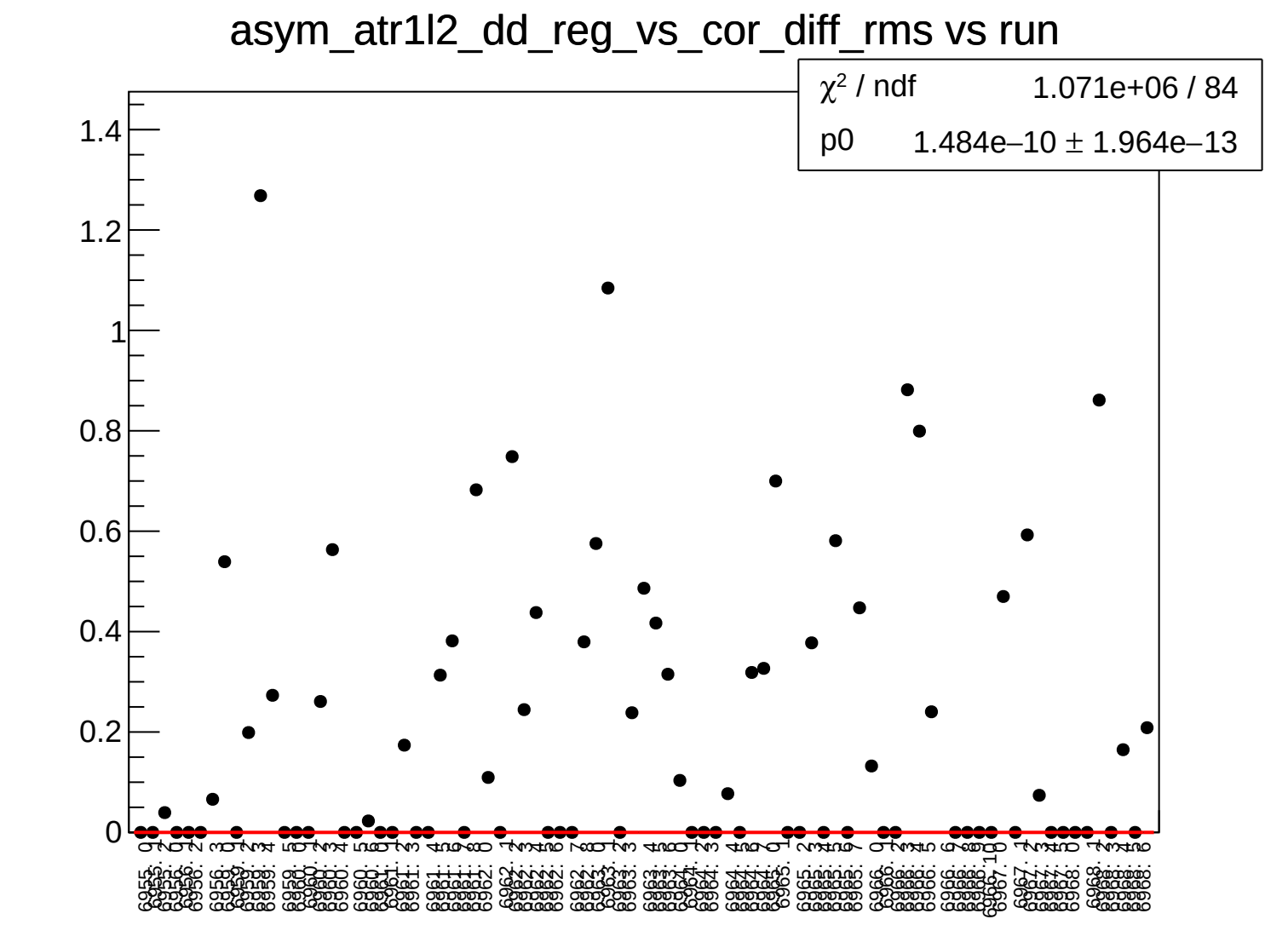

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 101.6 / 84
p0 −2739 ± 6669
200
100
0
−100
−200
−300
pull
Entries 85
Mean 119.3
Std Dev 0
2
1
0
−1
−2
−3

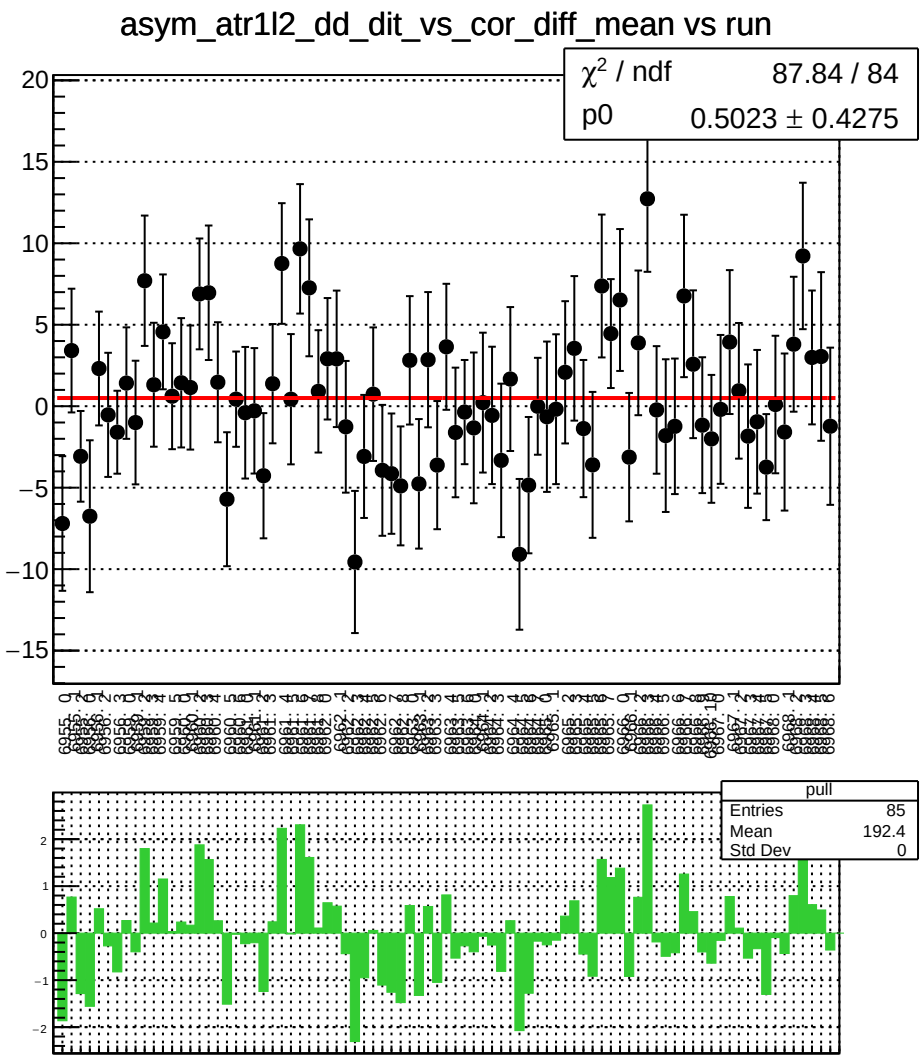

pull1D
Entries 85
Mean −0.01211
Std Dev 1.093
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

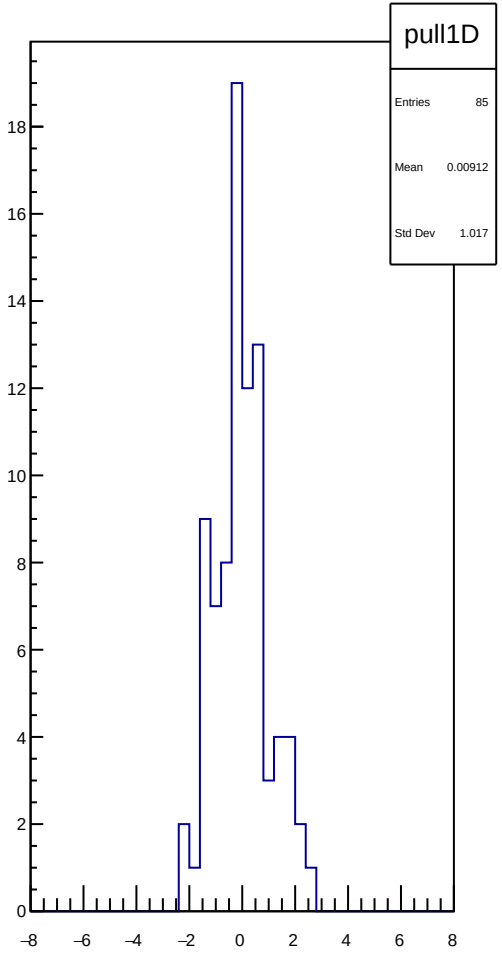

asym_atr1l2_dd_rms vs run
$\chi^2$ / ndf 1.087e+04 / 84
p0 6024 ± 4.716
7500
7000
6500
6000
5500
5000

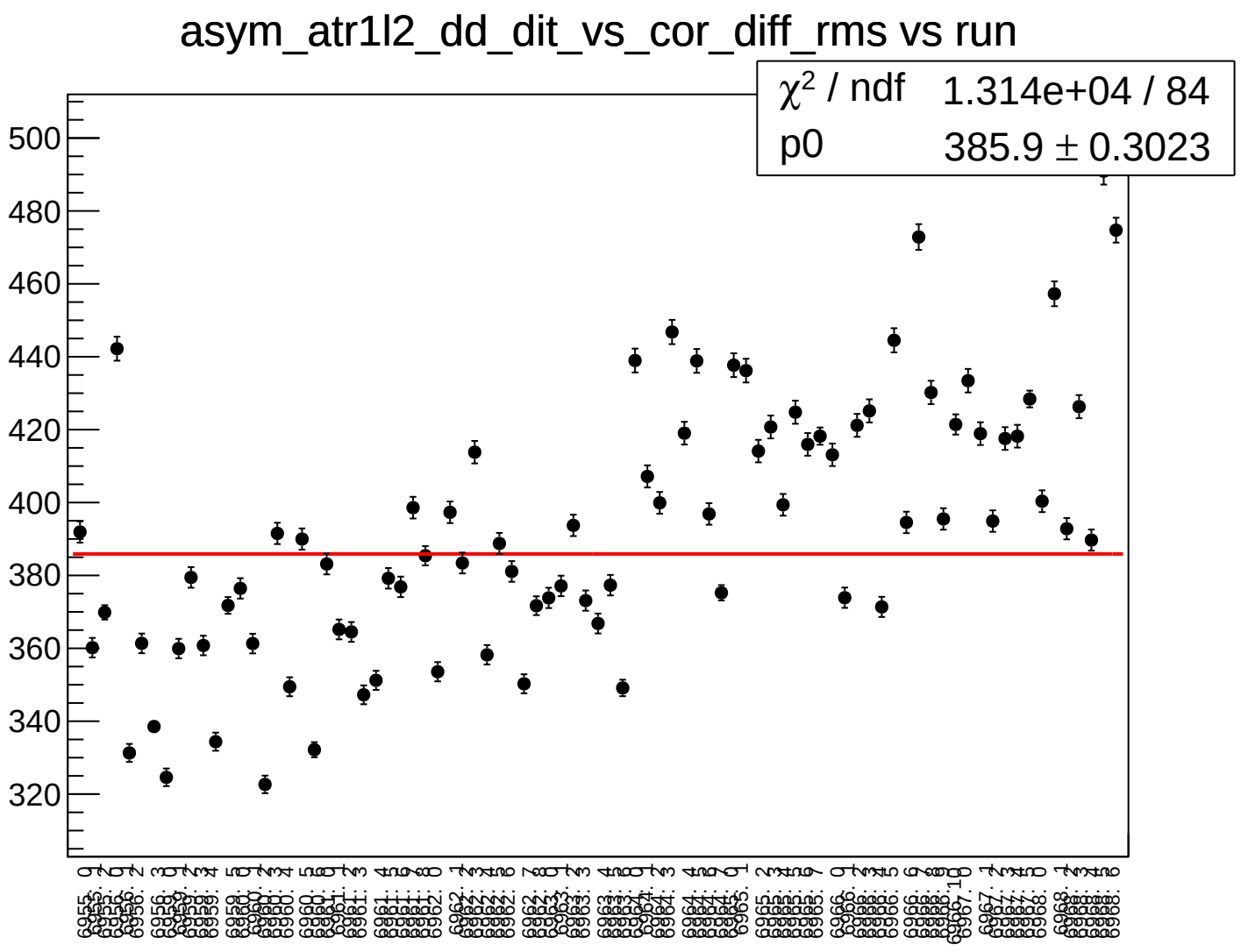

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.13 / 84
p0 1.031e−14 ± 2.777e−13
pull
Entries 85
Mean 273.8
Std Dev 0

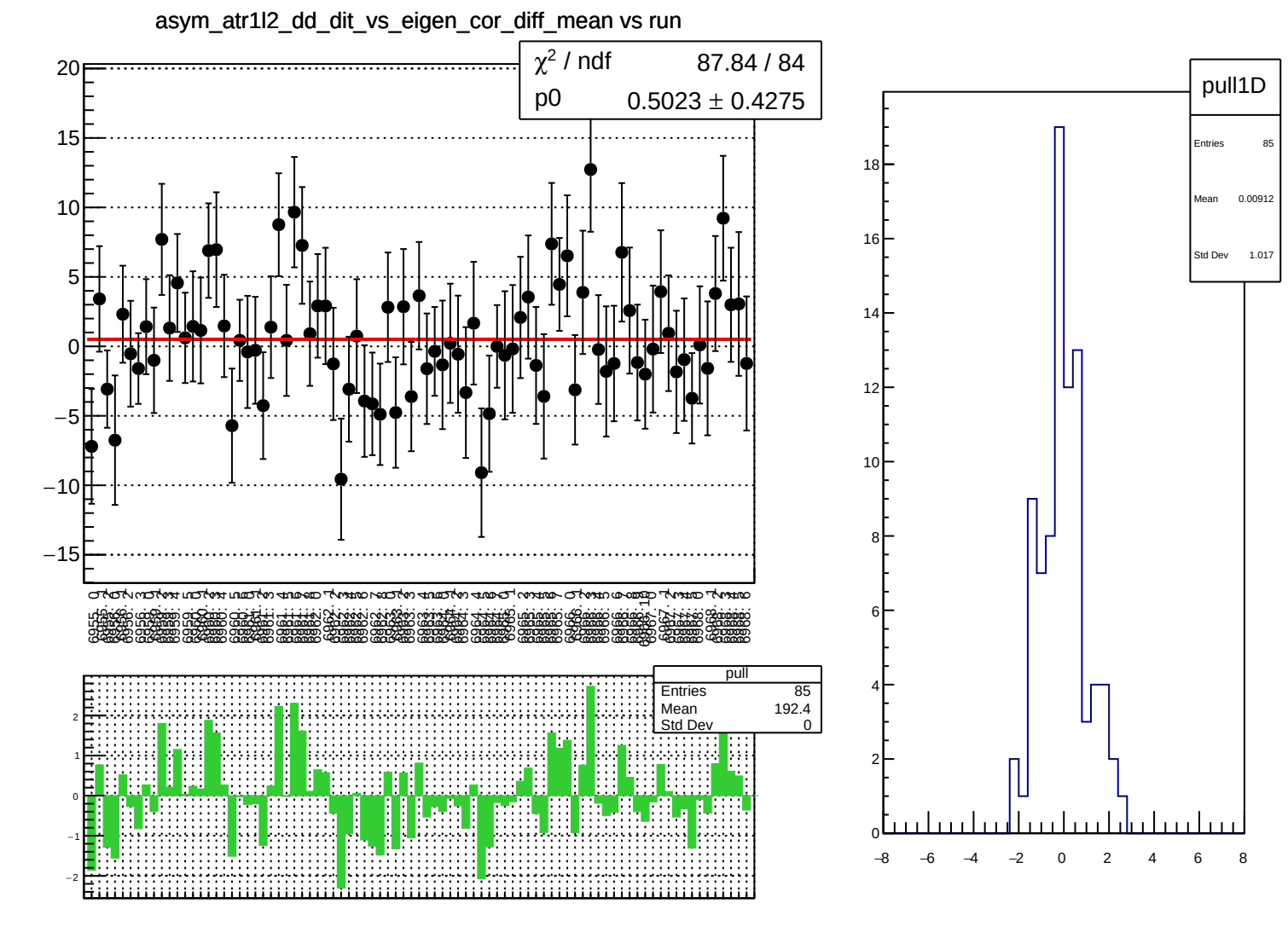

pull1D
Entries 85
Mean 0.02769
Std Dev 0.9079

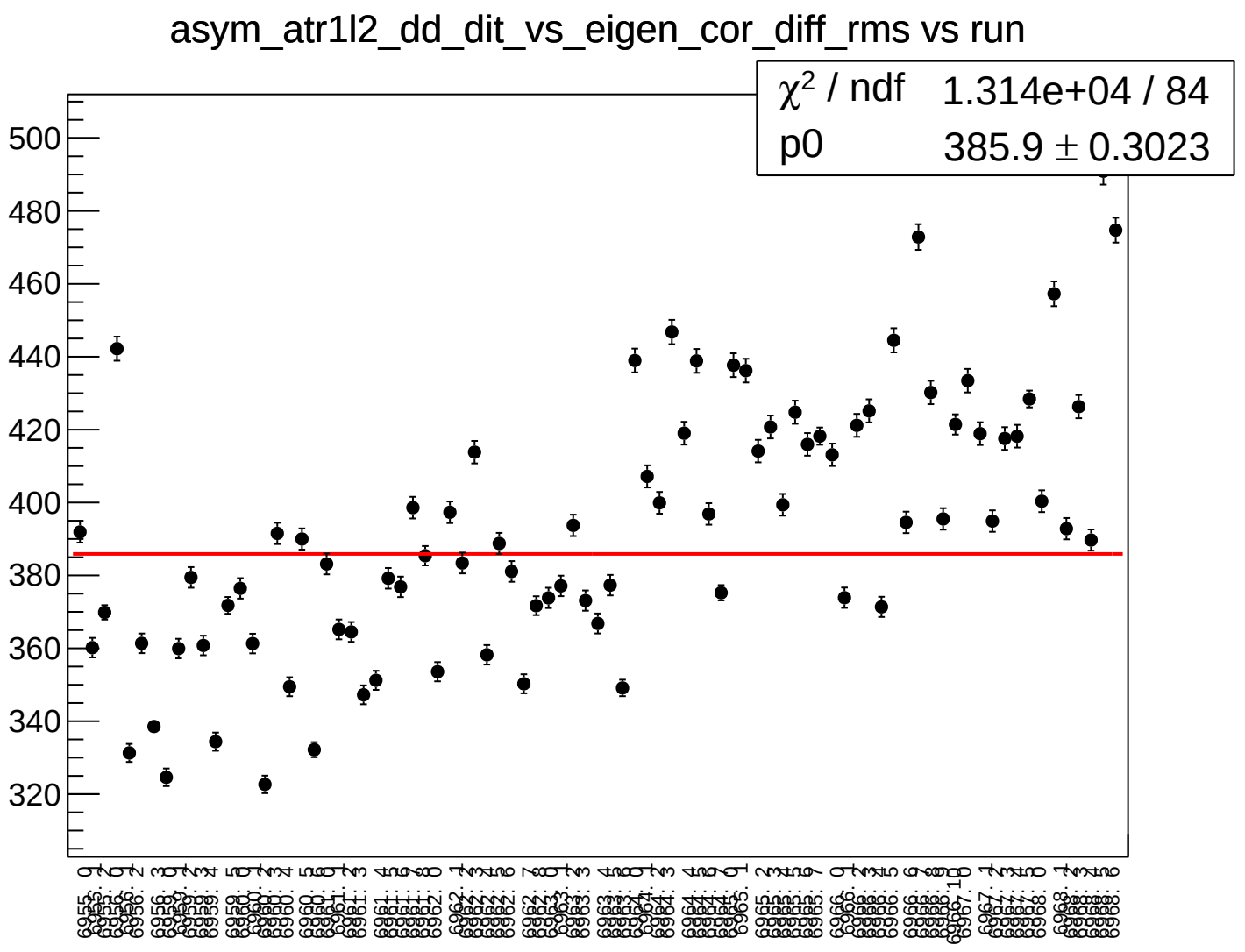

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.071e+06 / 84
p0 1.484e−10 ± 1.964e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

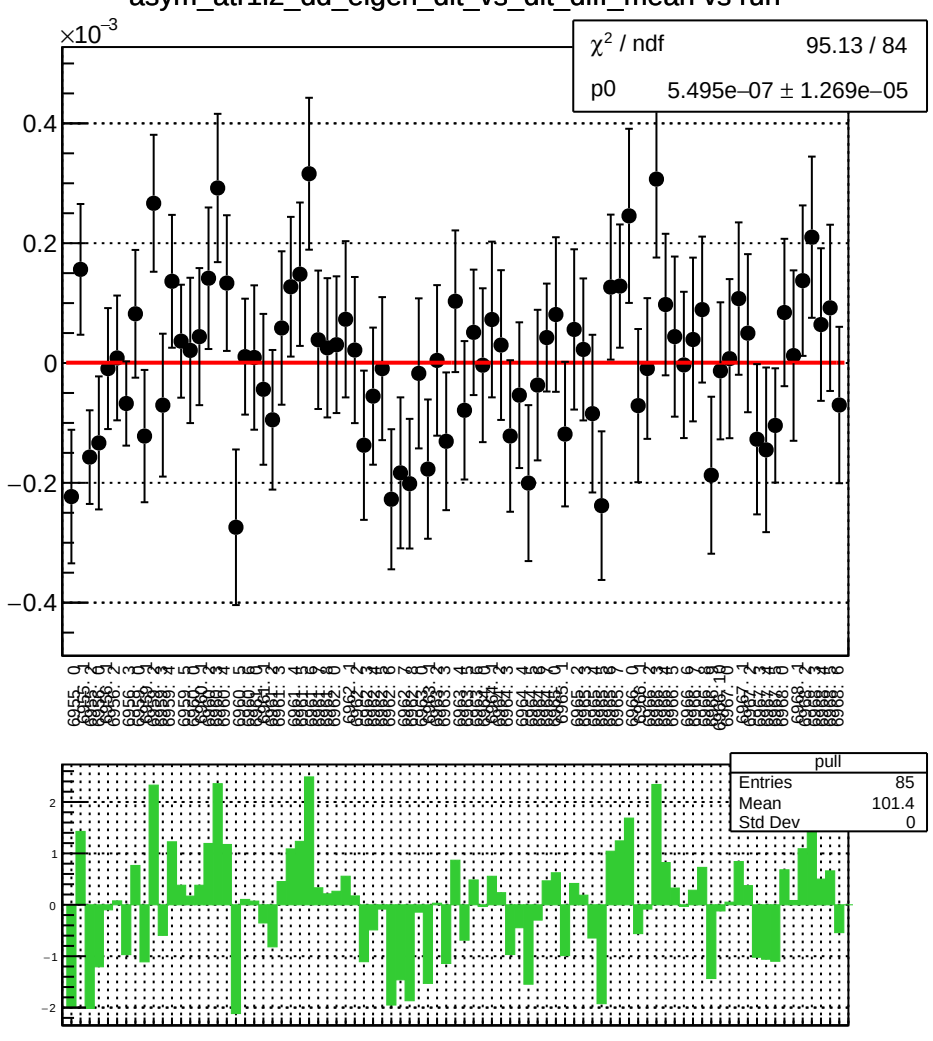

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.84 / 84
p0 0.5023 ± 0.4275
pull
Entries 85
Mean 192.4
Std Dev 0

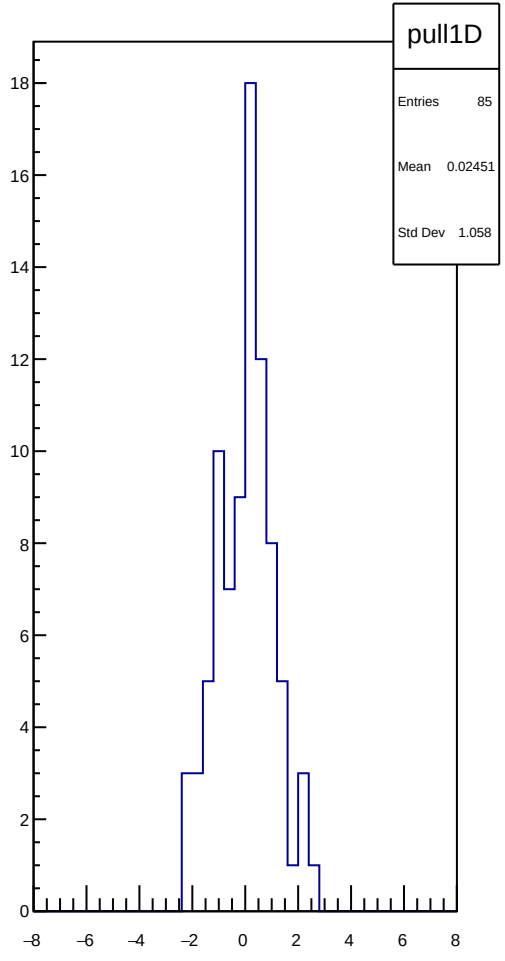

pull1D
Entries 85
Mean 0.00912
Std Dev 1.017

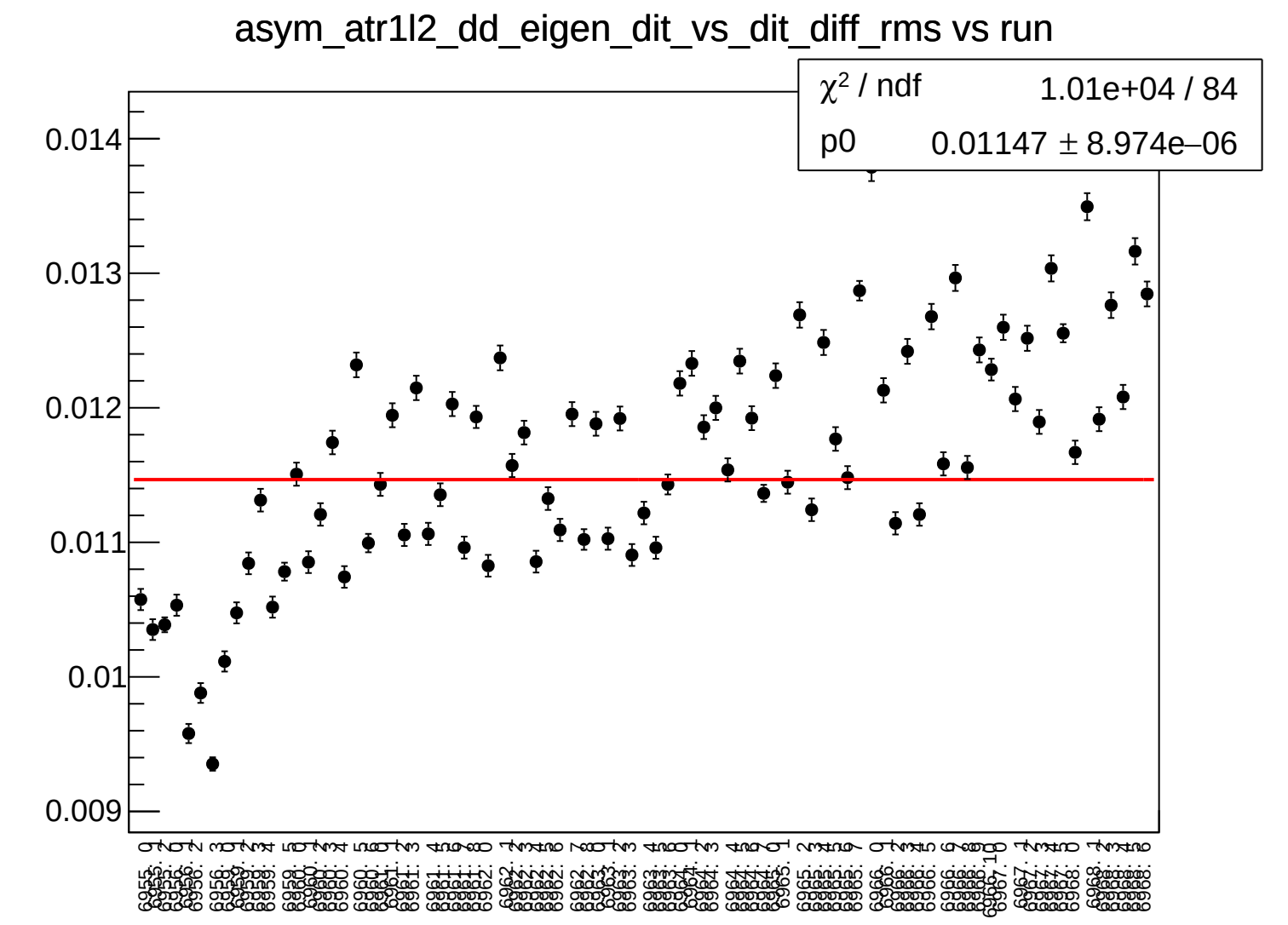

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.314e+04 / 84
p0 385.9 ± 0.3023
500
480
460
440
420
400
380
360
340
320

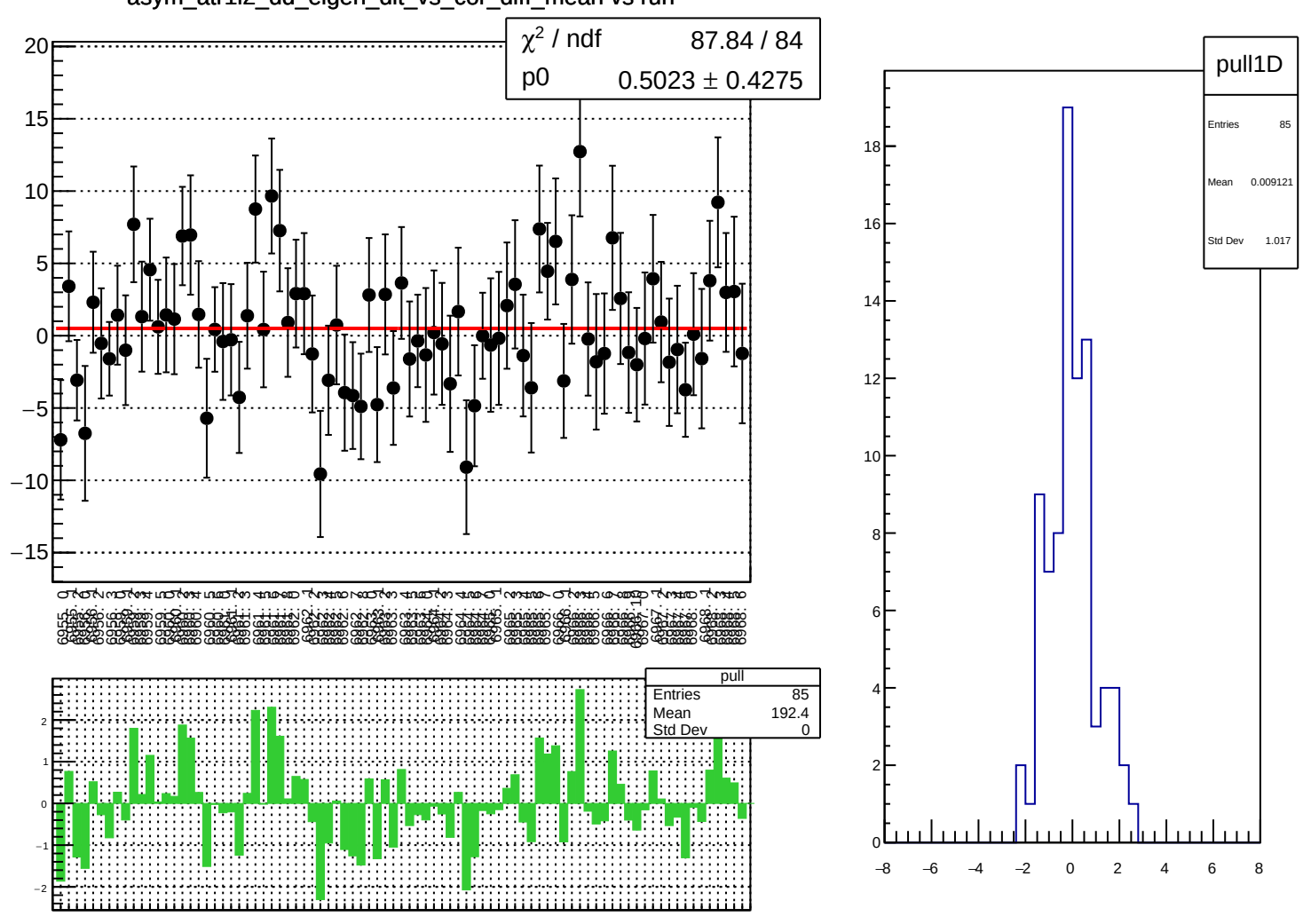

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.84 / 84
p0 0.5023 ± 0.4275
pull
Entries 85
Mean 192.4
Std Dev 0
pull1D
Entries 85
Mean 0.00912
Std Dev 1.017

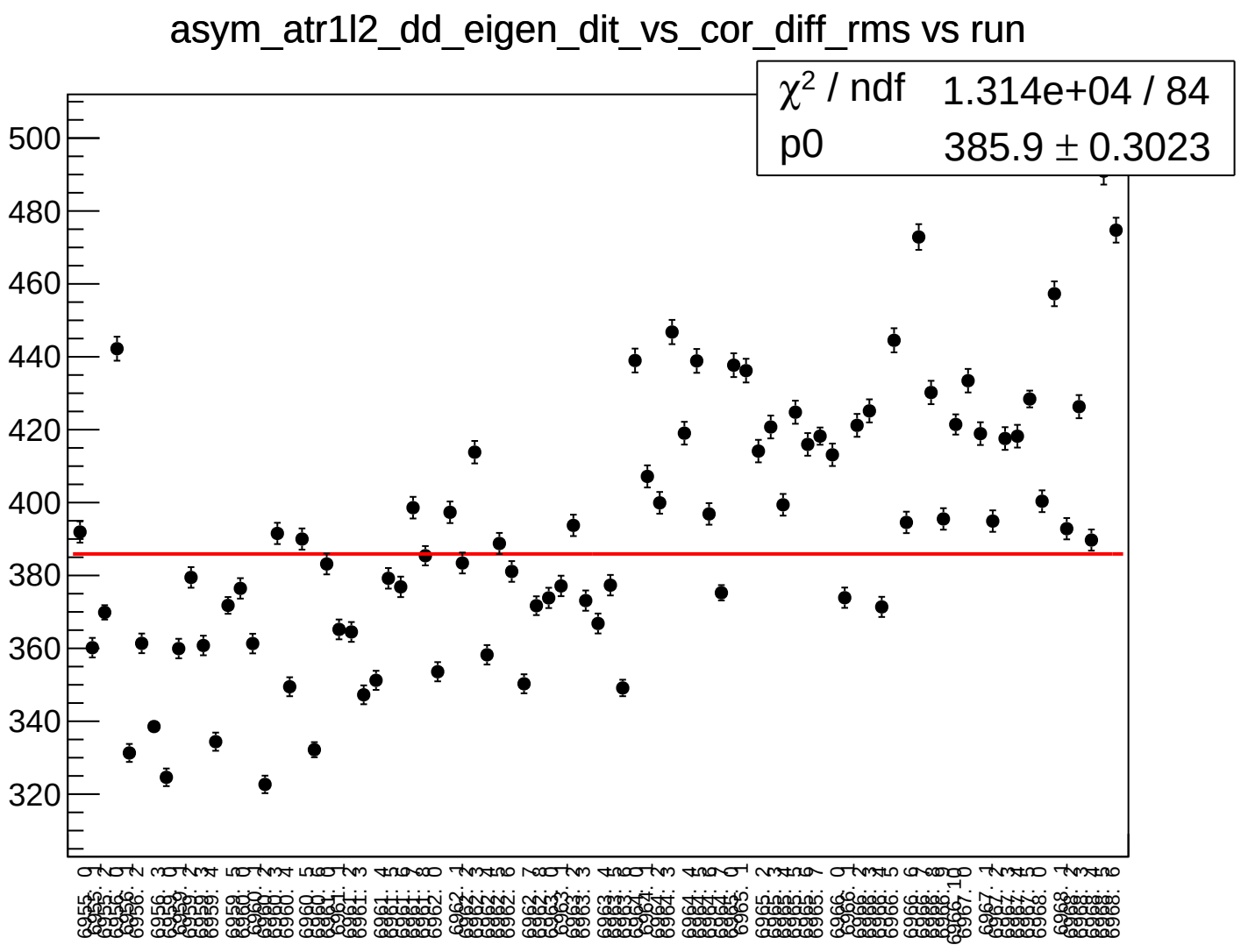

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.314e+04 / 84
p0 385.9 ± 0.3023
500
480
460
440
420
400
380
360
340
320

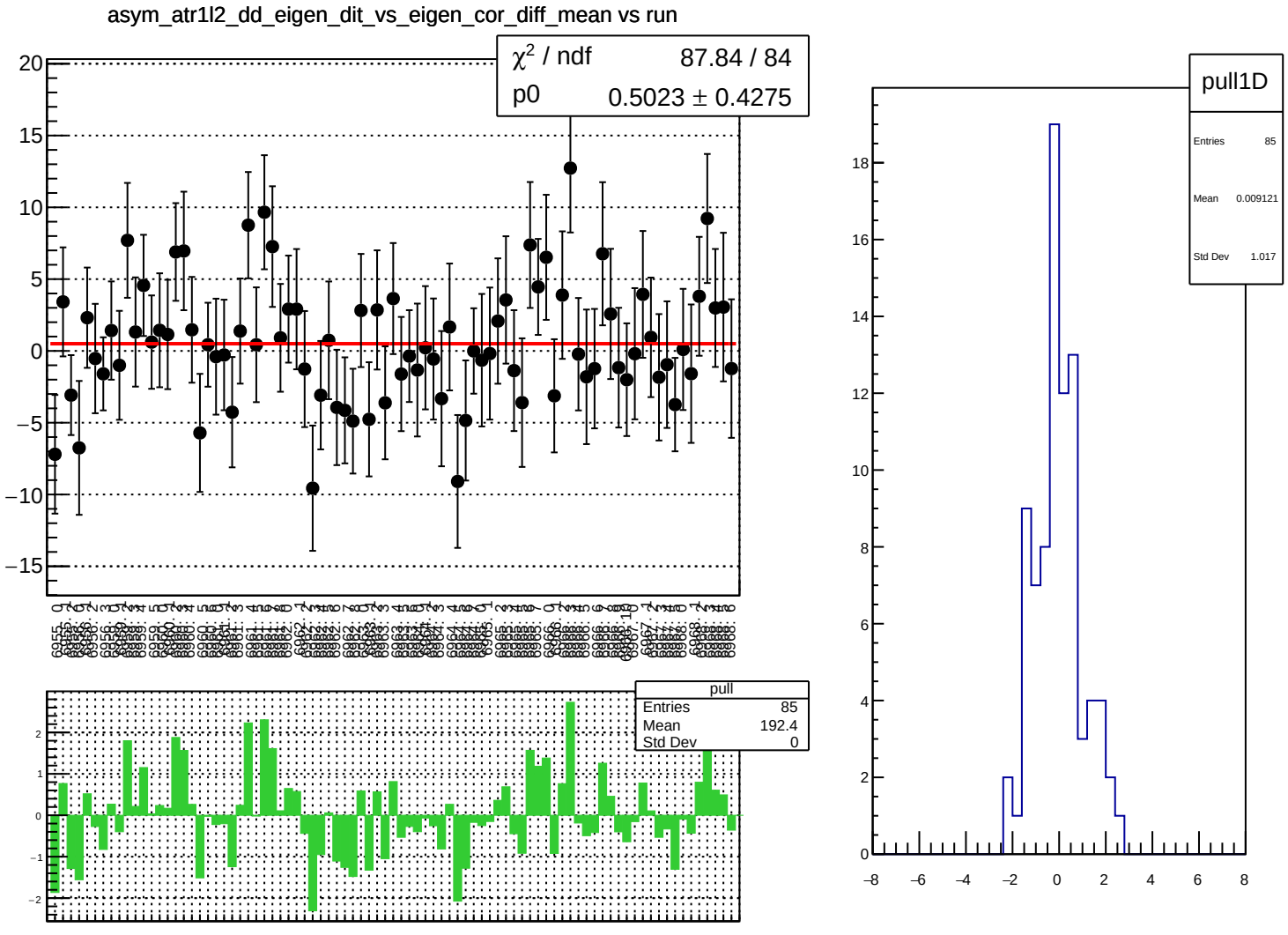

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.13 / 84
p0 5.495e−07 ± 1.269e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 85
Mean 101.4
Std Dev 0
2
1
0
−1
−2

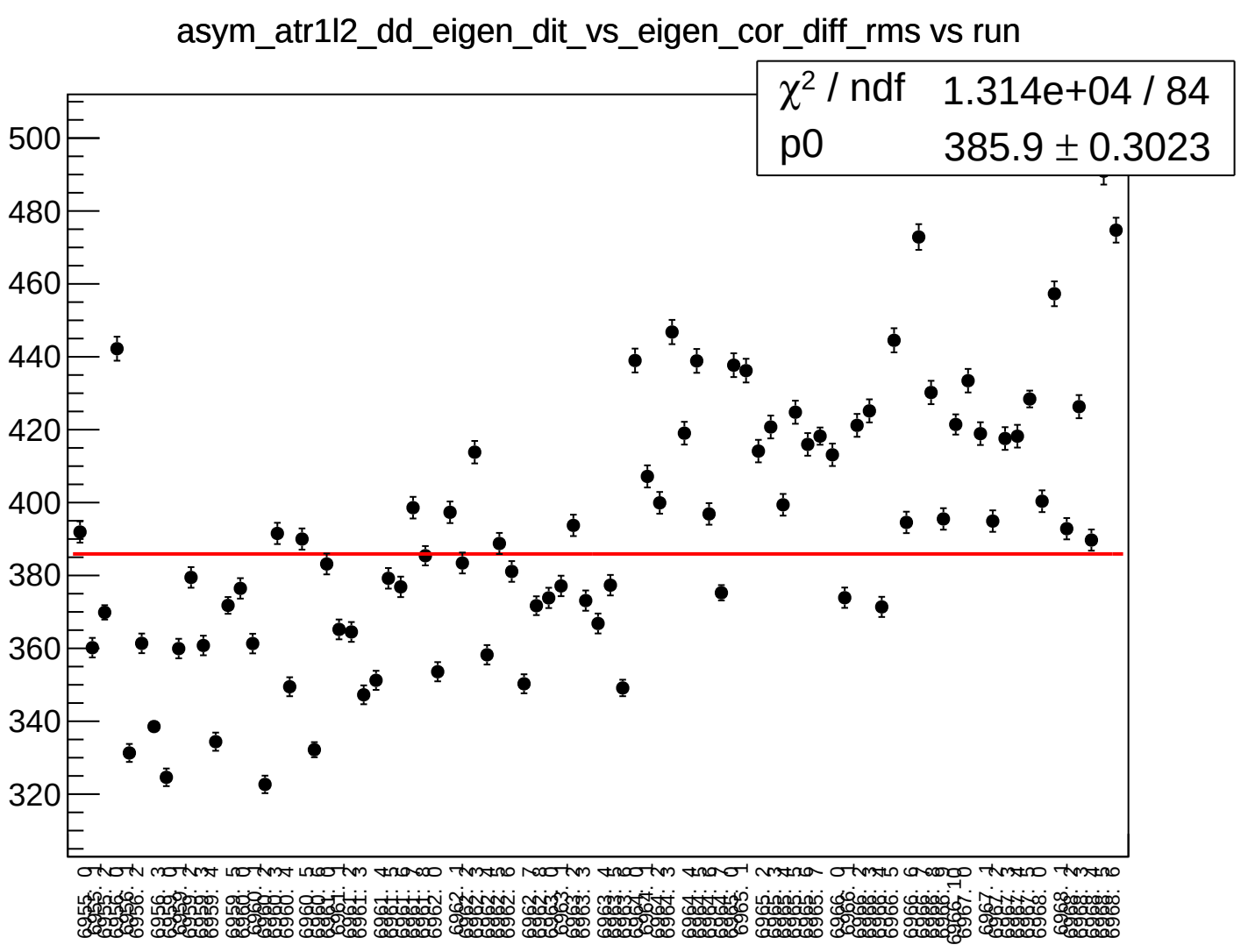

pull1D
Entries 85
Mean 0.02451
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

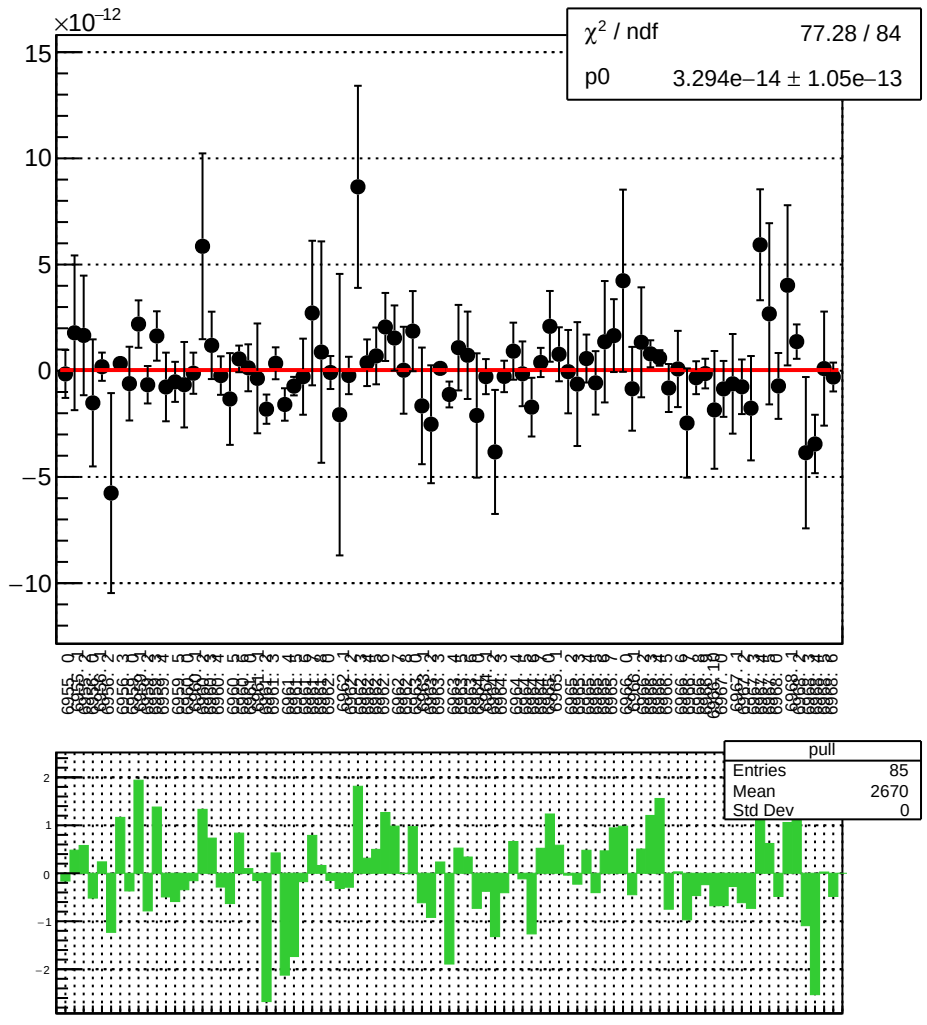

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.01e+04 / 84
p0 0.01147 ± 8.974e−06
0.014
0.013
0.012
0.011
0.01
0.009

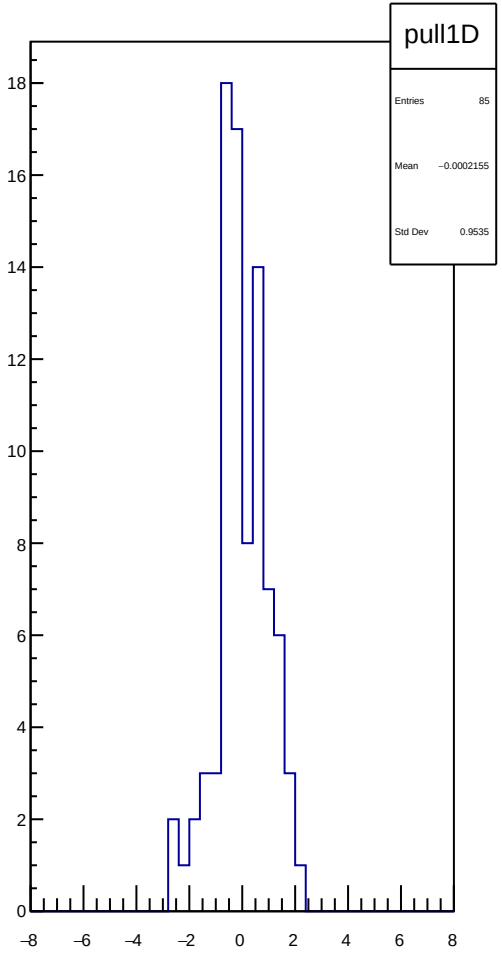

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.84 / 84
p0 0.5023 ± 0.4275
pull
Entries 85
Mean 192.4
Std Dev 0
pull1D
Entries 85
Mean 0.009121
Std Dev 1.017

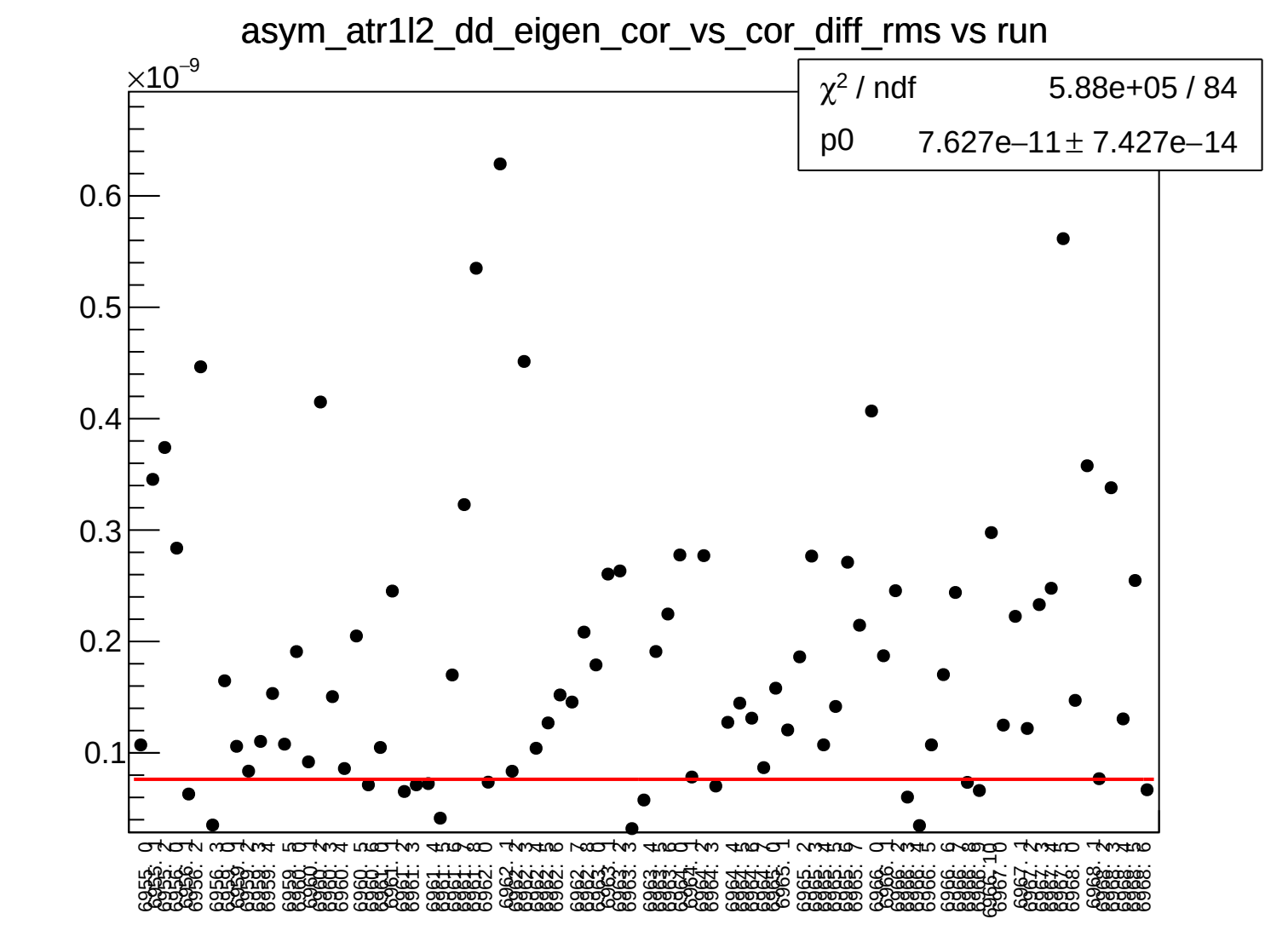

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.314e+04 / 84
p0 385.9 ± 0.3023
500
480
460
440
420
400
380
360
340
320

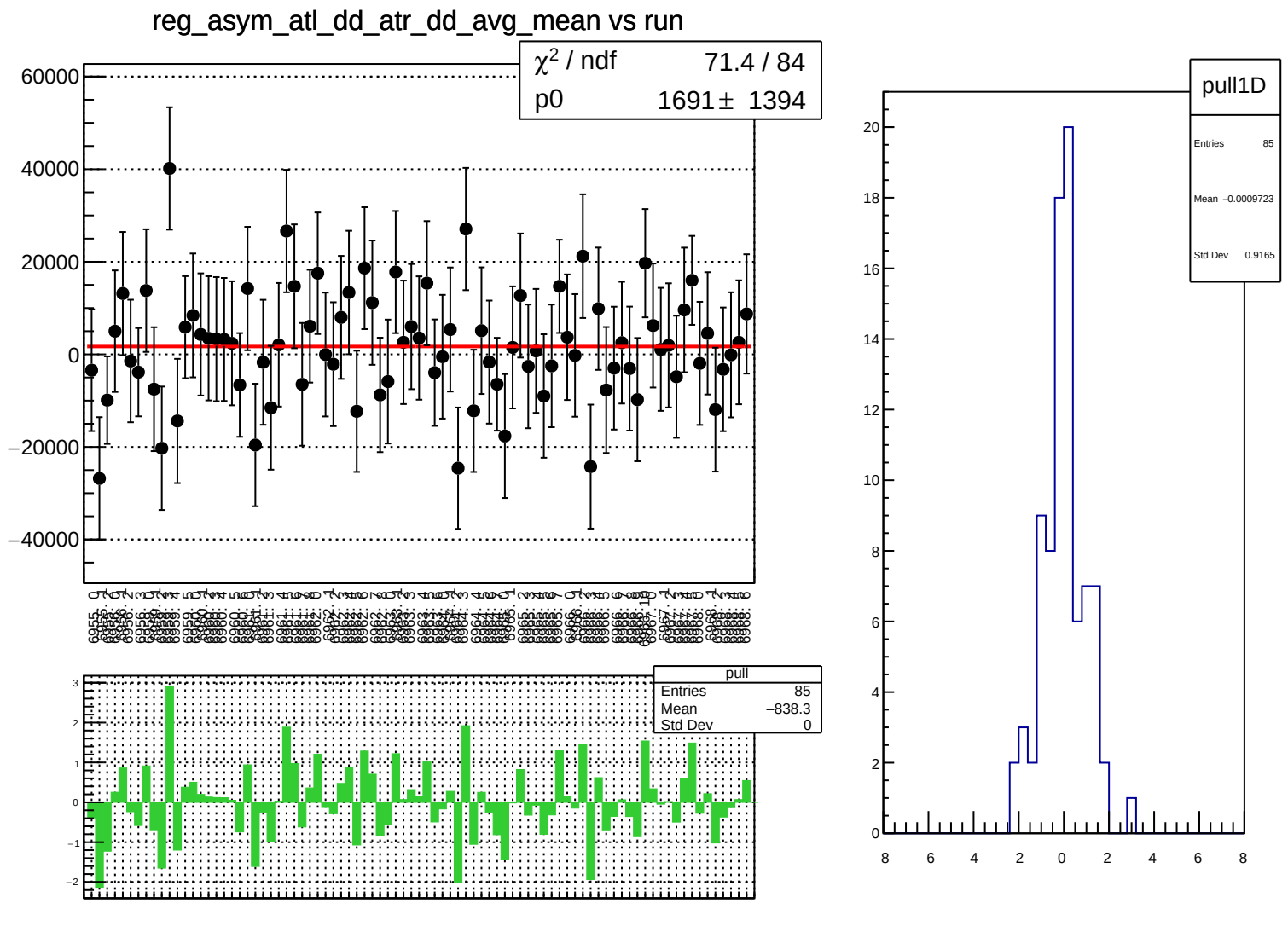

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.84 / 84
p0 0.5023 ± 0.4275
pull
Entries 85
Mean 192.4
Std Dev 0
pull1D
Entries 85
Mean 0.009121
Std Dev 1.017

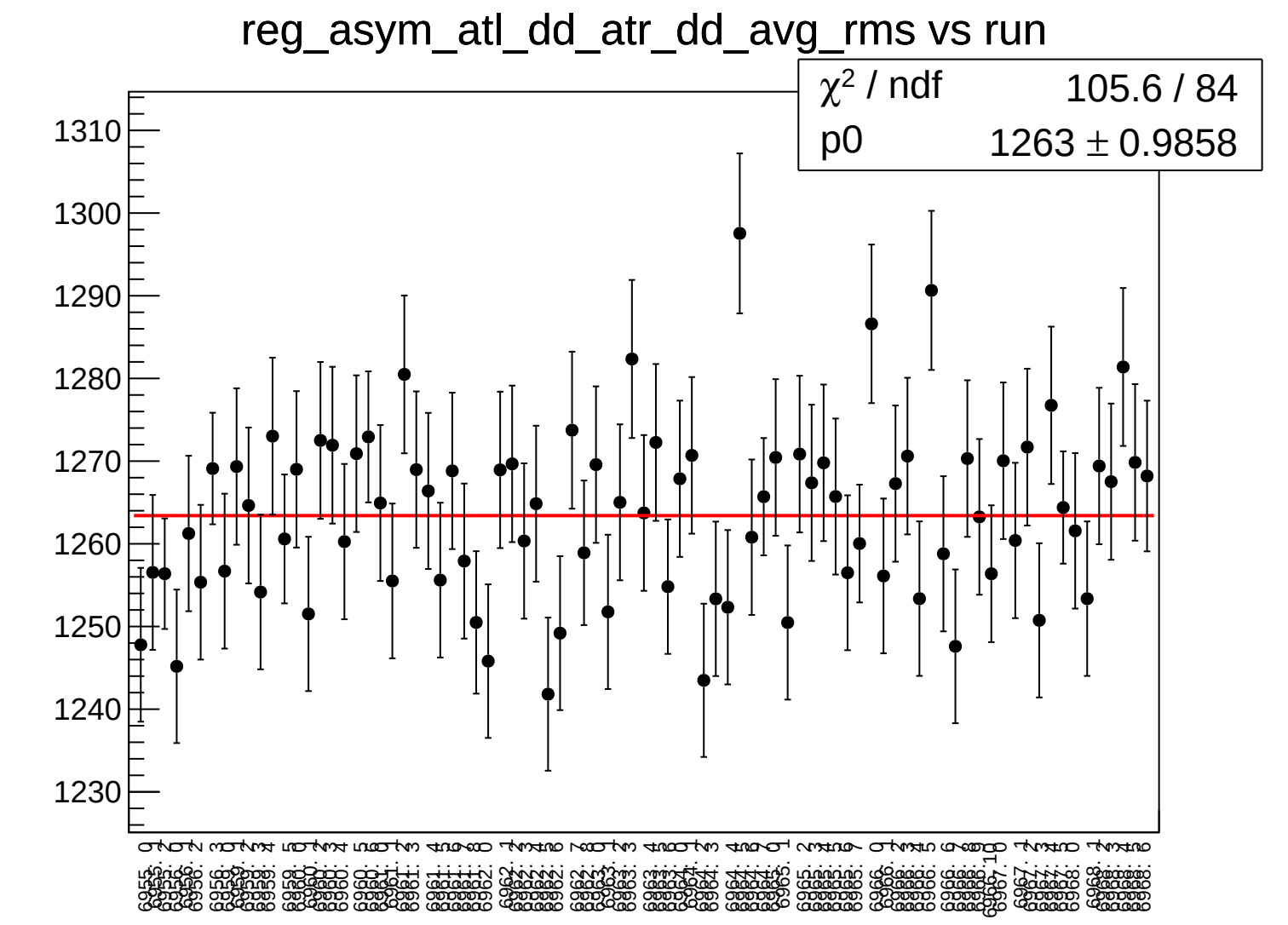

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.314e+04 / 84
p0 385.9 ± 0.3023
500
480
460
440
420
400
380
360
340
320

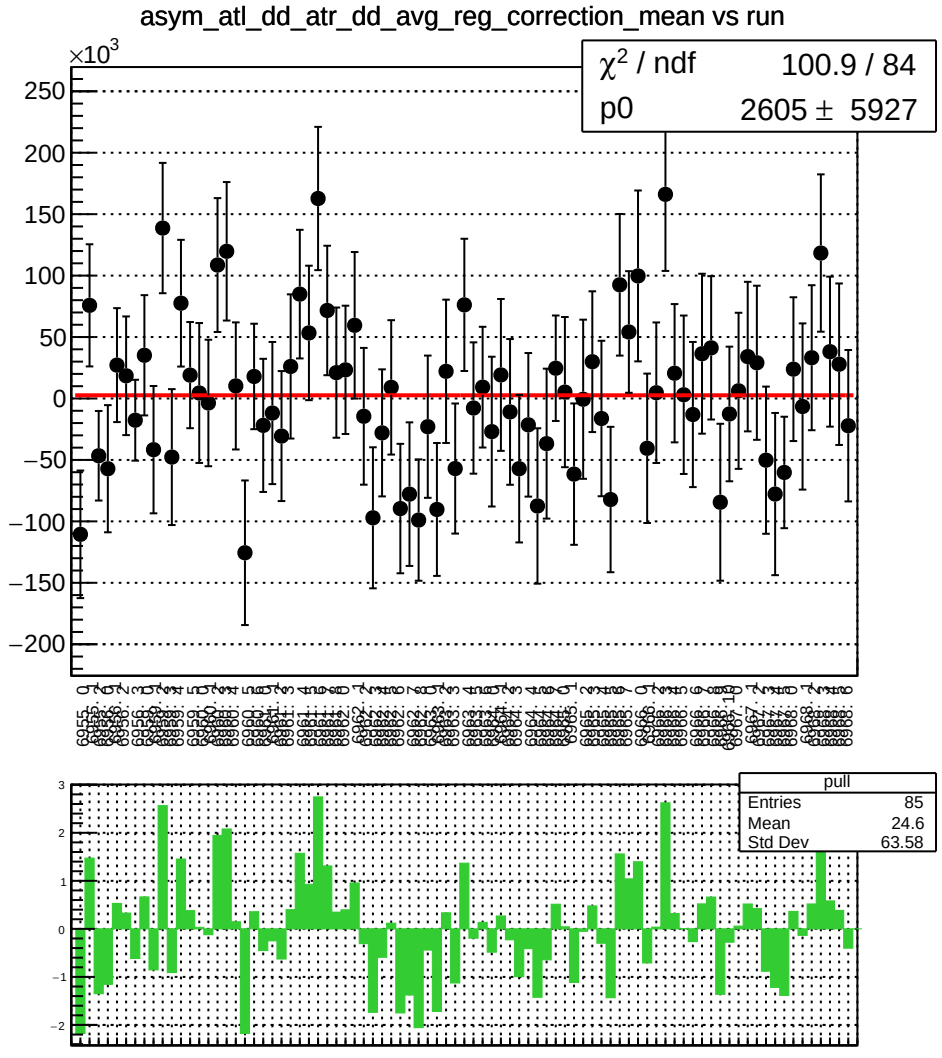

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.28 / 84
p0 3.294e−14 ± 1.05e−13
pull
Entries 85
Mean 2670
Std Dev 0

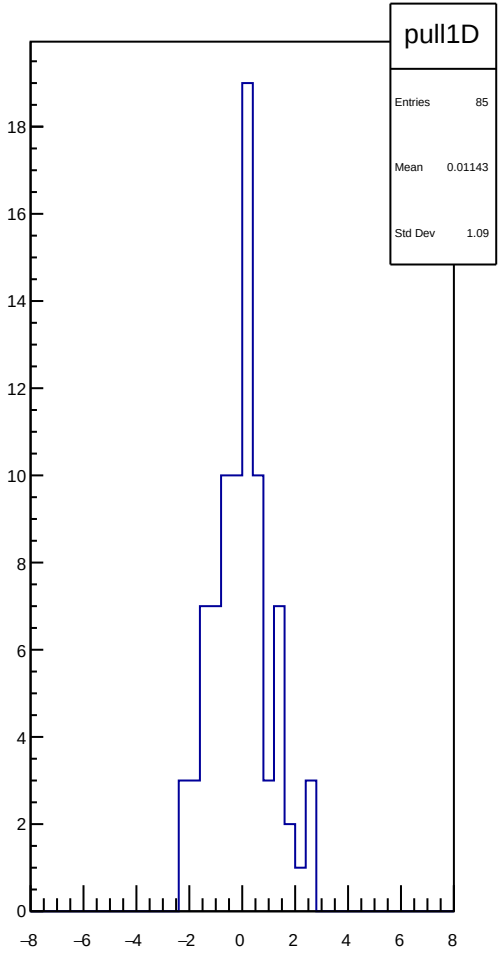

pull1D
Entries 85
Mean −0.0002155
Std Dev 0.9535

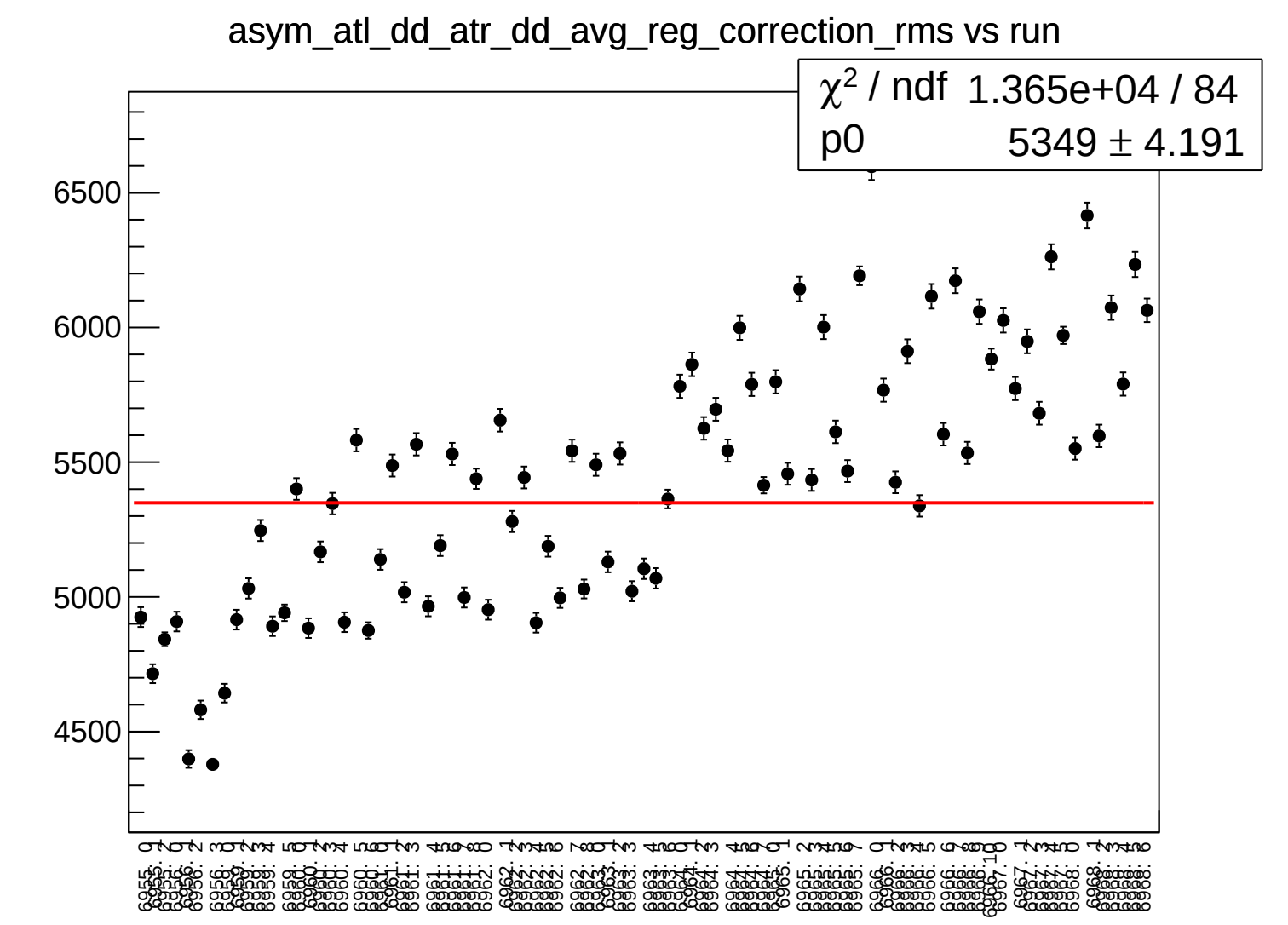

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.88e+05 / 84
p0 7.627e−11 ± 7.427e−14
0.6
0.5
0.4
0.3
0.2
0.1

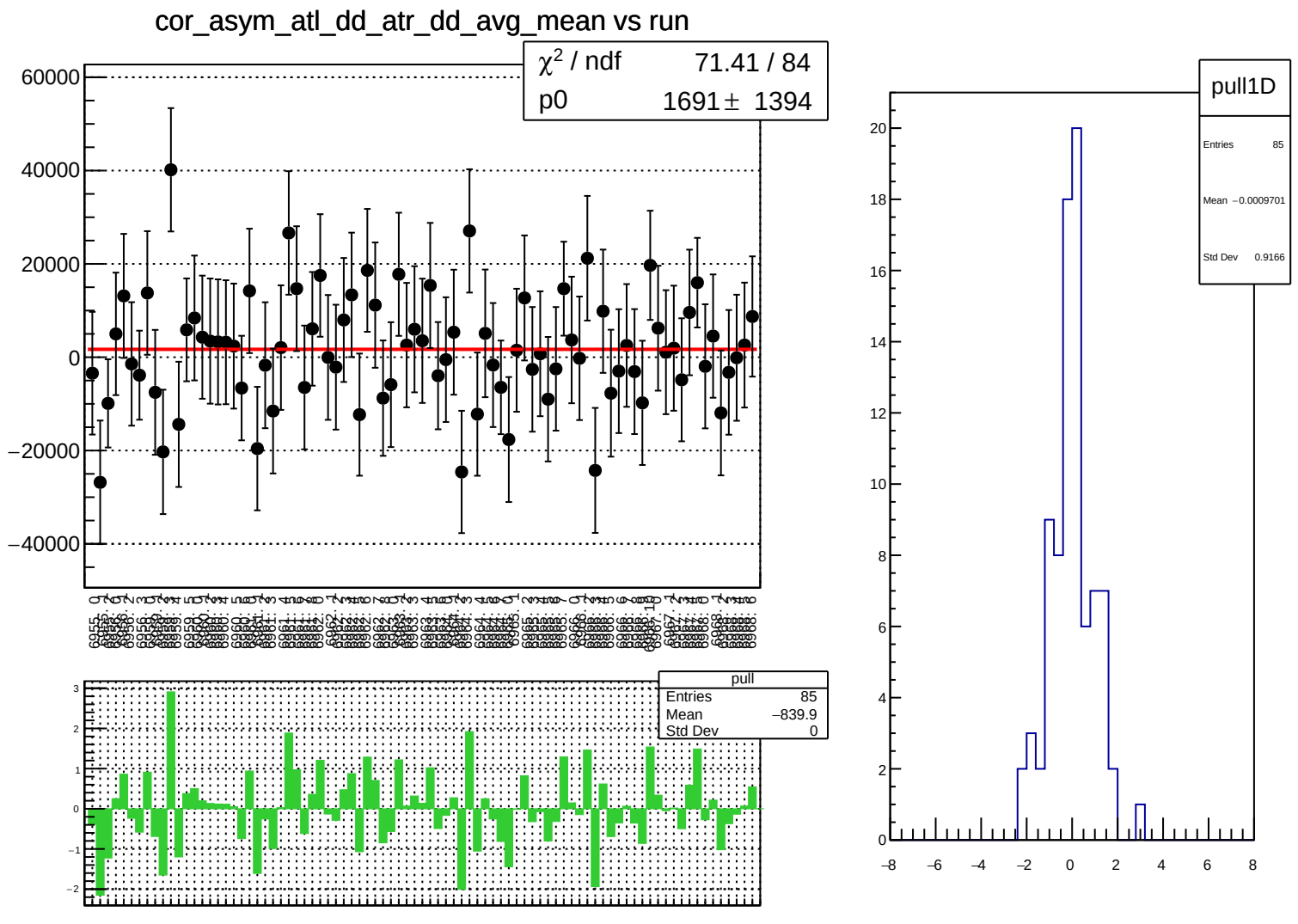

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 71.4 / 84
p0 1691 ± 1394
pull
Entries 85
Mean −838.3
Std Dev 0
pull1D
Entries 85
Mean −0.0009723
Std Dev 0.9165

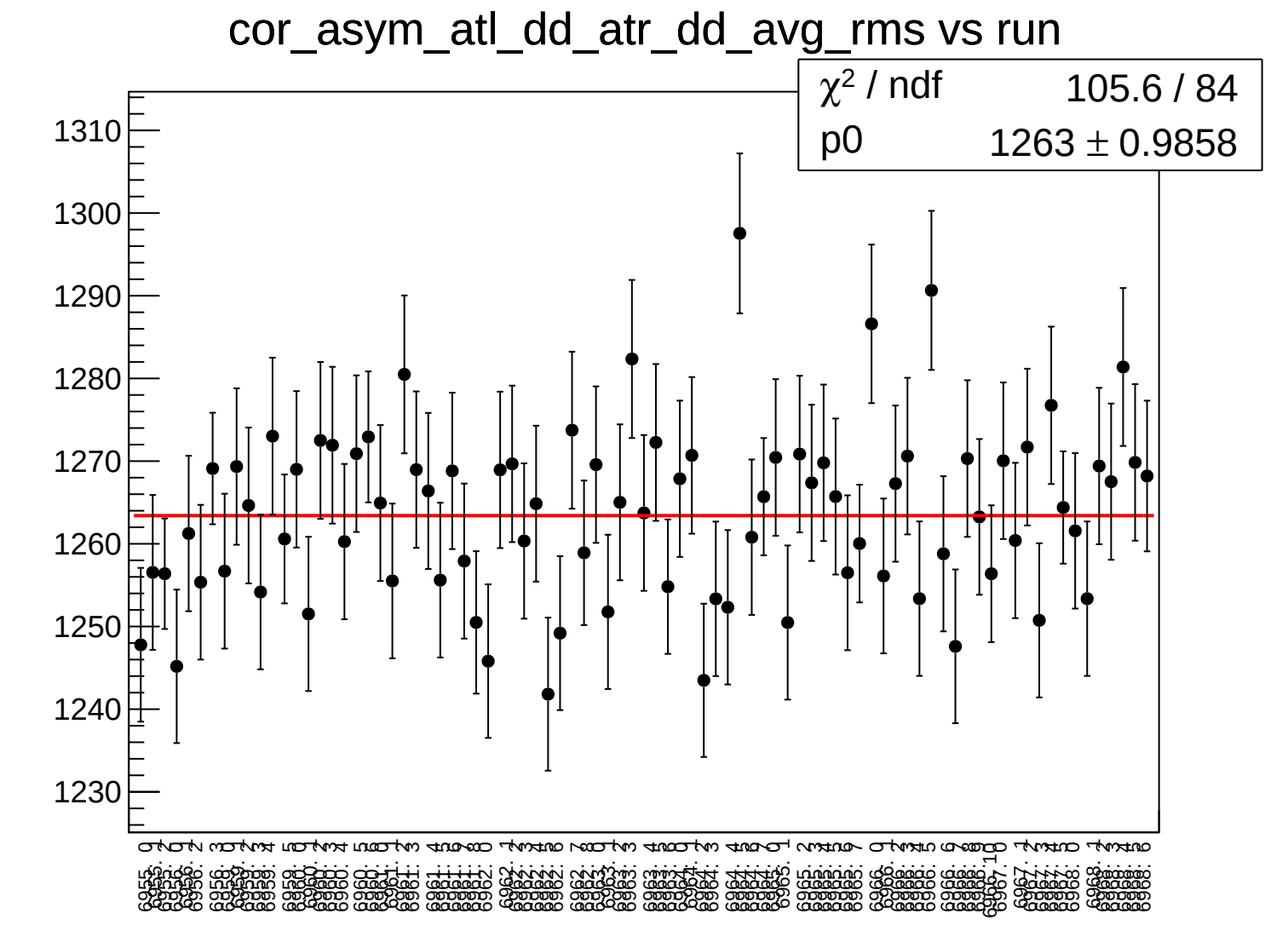

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 105.6 / 84
p0 1263 ± 0.9858
1310
1300
1290
1280
1270
1260
1250
1240
1230

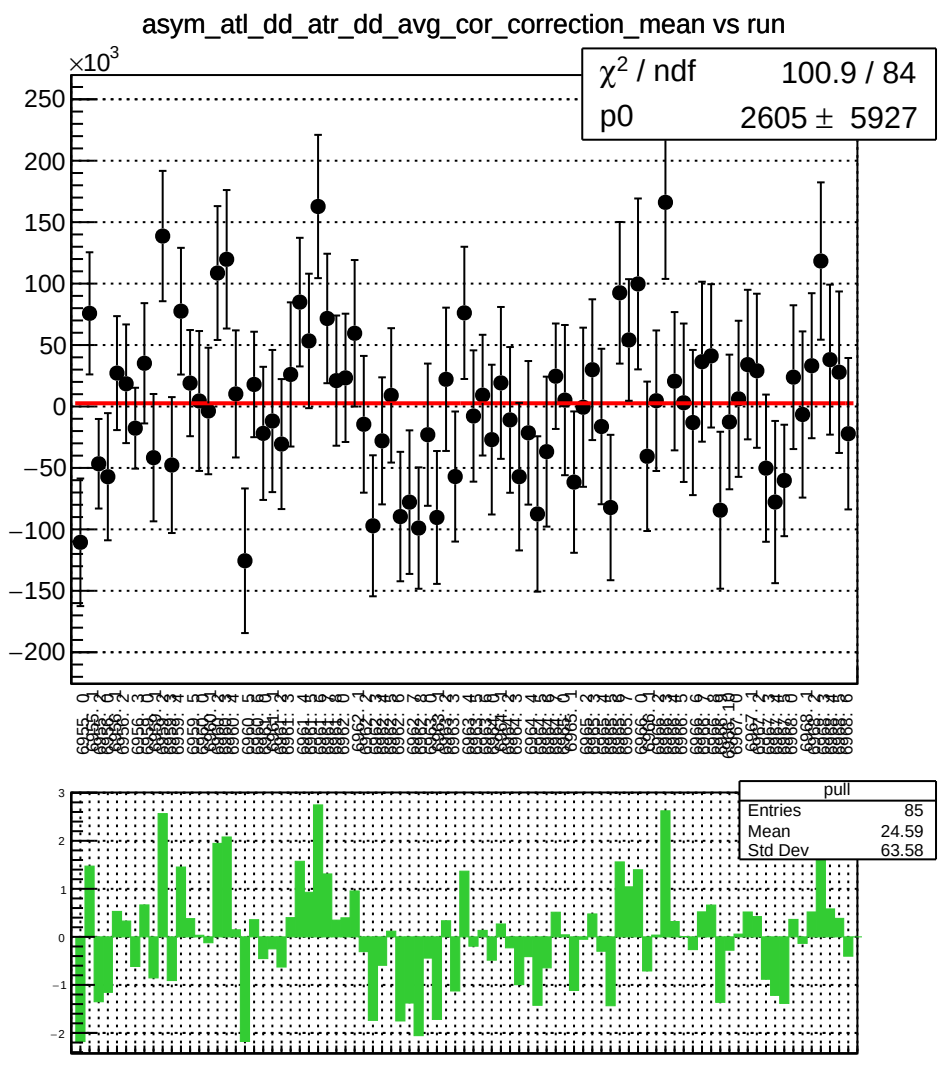

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.9 / 84
p0 2605 ± 5927
pull
Entries 85
Mean 24.6
Std Dev 63.58

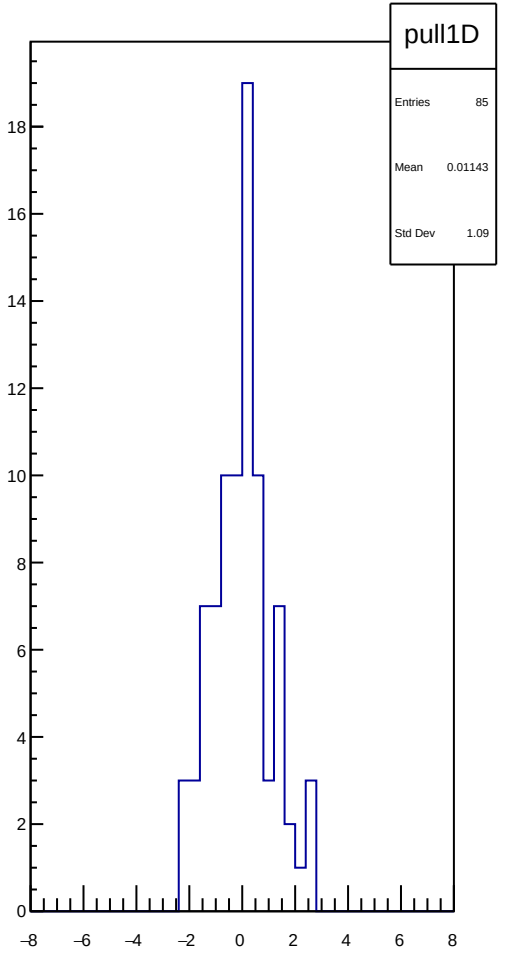

pull1D
Entries 85
Mean 0.01143
Std Dev 1.09

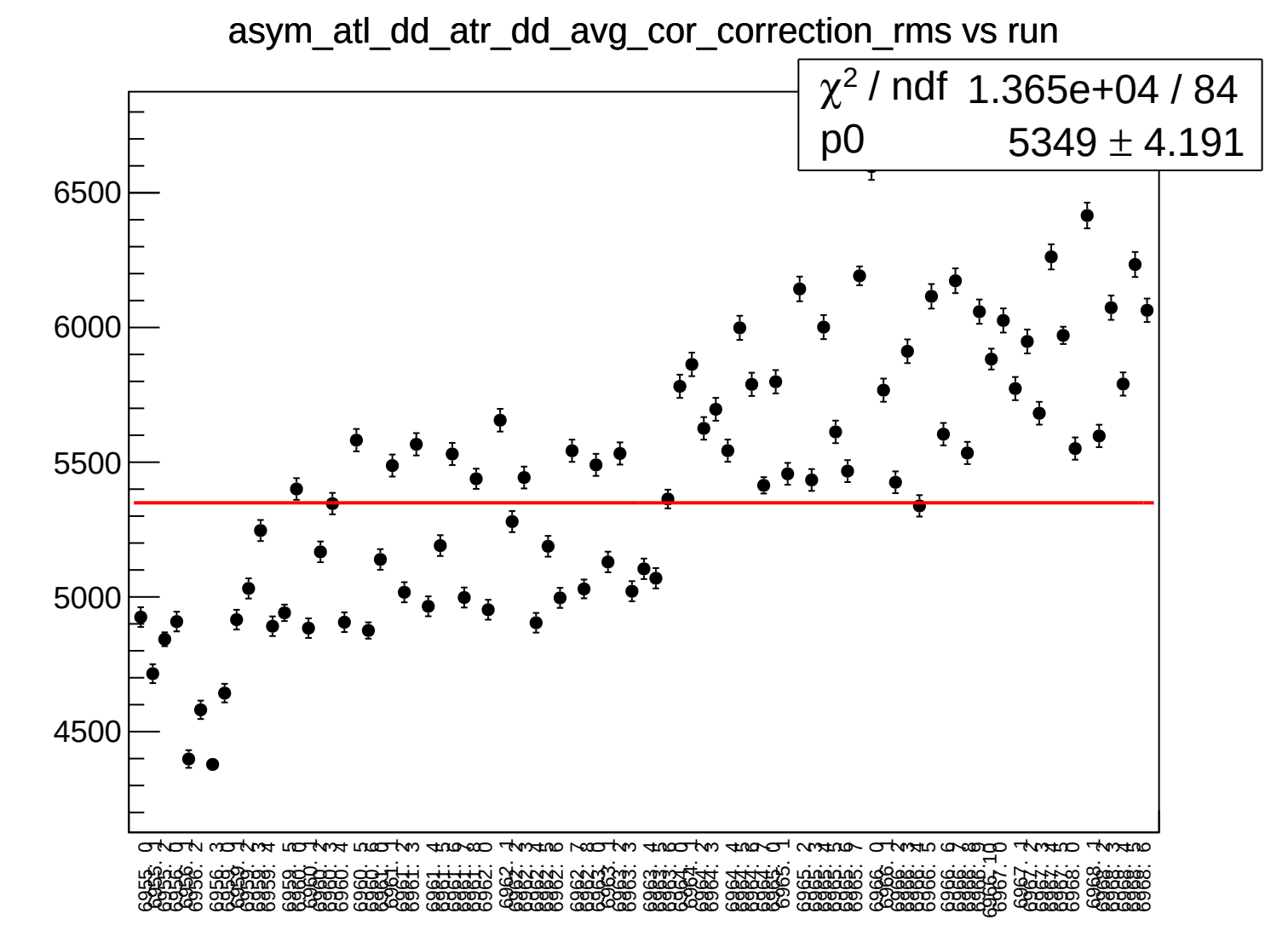

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.365e+04 / 84
p0 5349 ± 4.191
6500
6000
5500
5000
4500

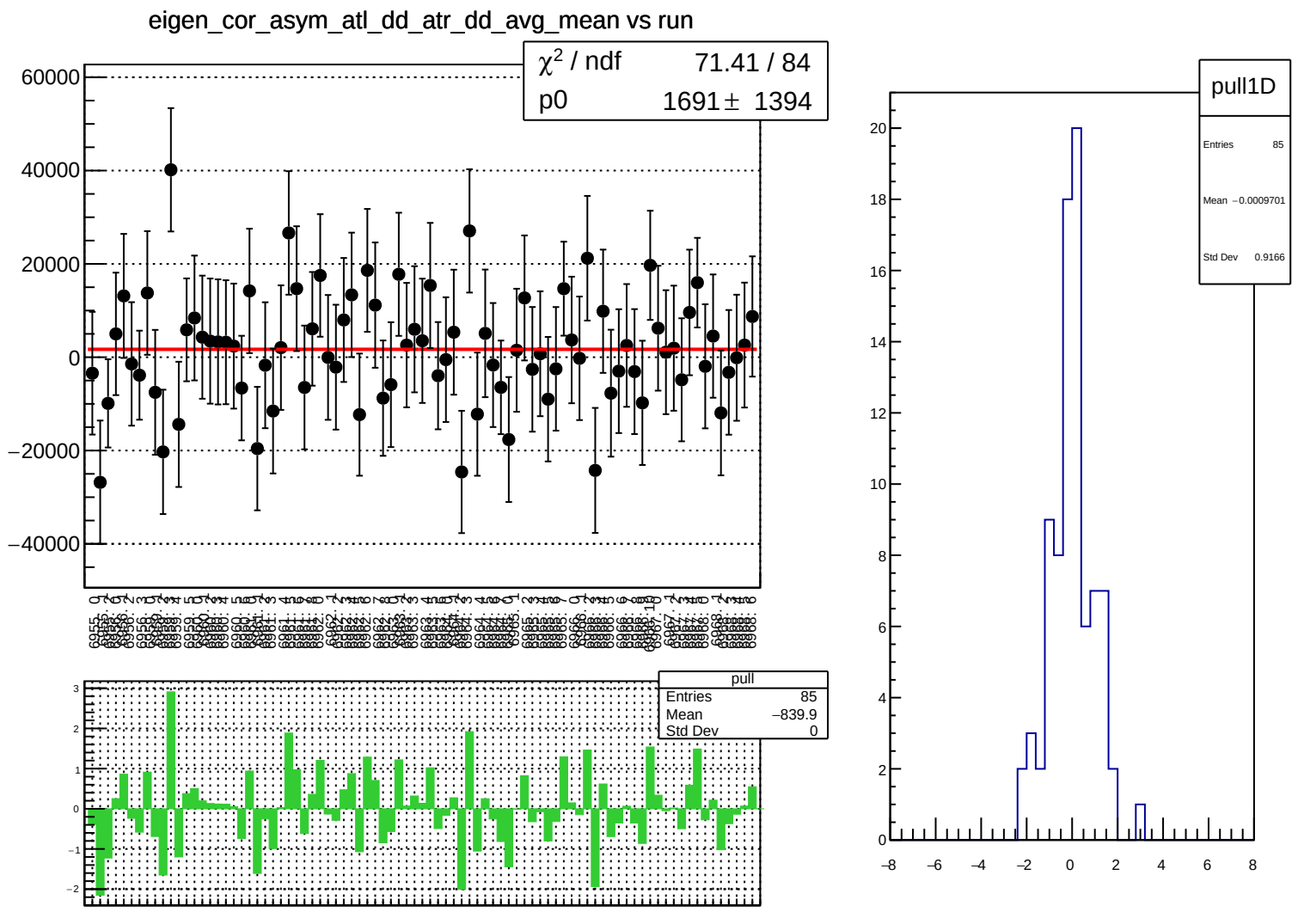

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 71.41 / 84
p0 1691 ± 1394
pull
Entries 85
Mean −839.9
Std Dev 0
pull1D
Entries 85
Mean −0.0009701
Std Dev 0.9166

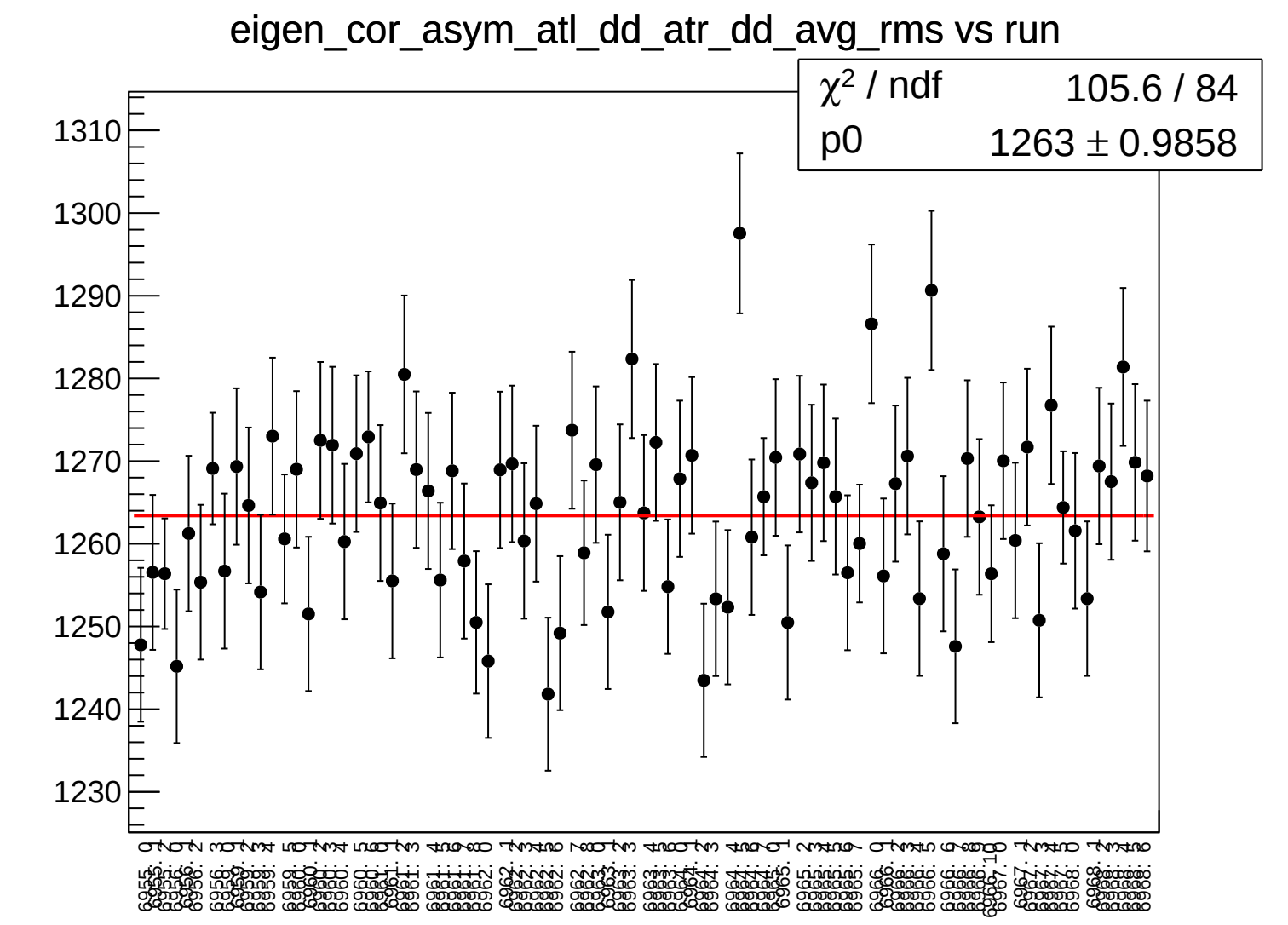

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 105.6 / 84
p0 1263 ± 0.9858
1310
1300
1290
1280
1270
1260
1250
1240
1230

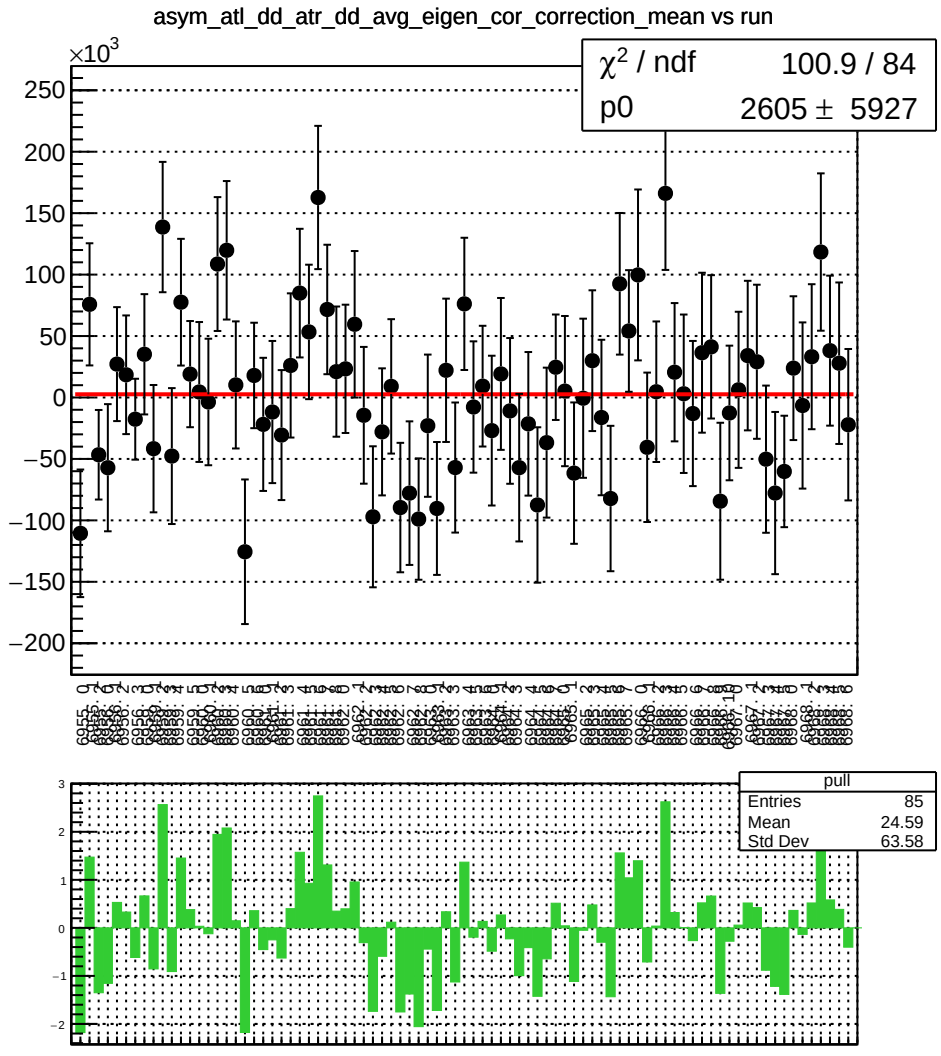

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.9 / 84
p0 2605 ± 5927
pull
Entries 85
Mean 24.59
Std Dev 63.58

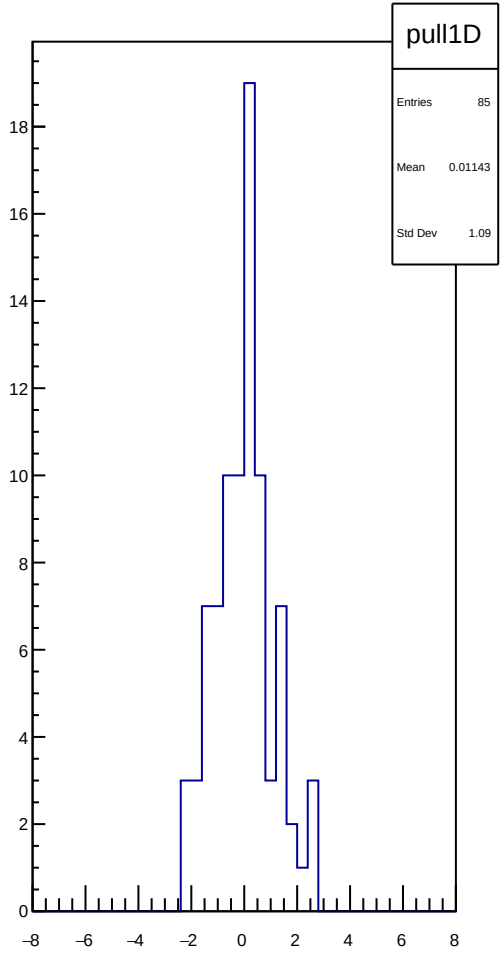

pull1D
Entries 85
Mean 0.01143
Std Dev 1.09

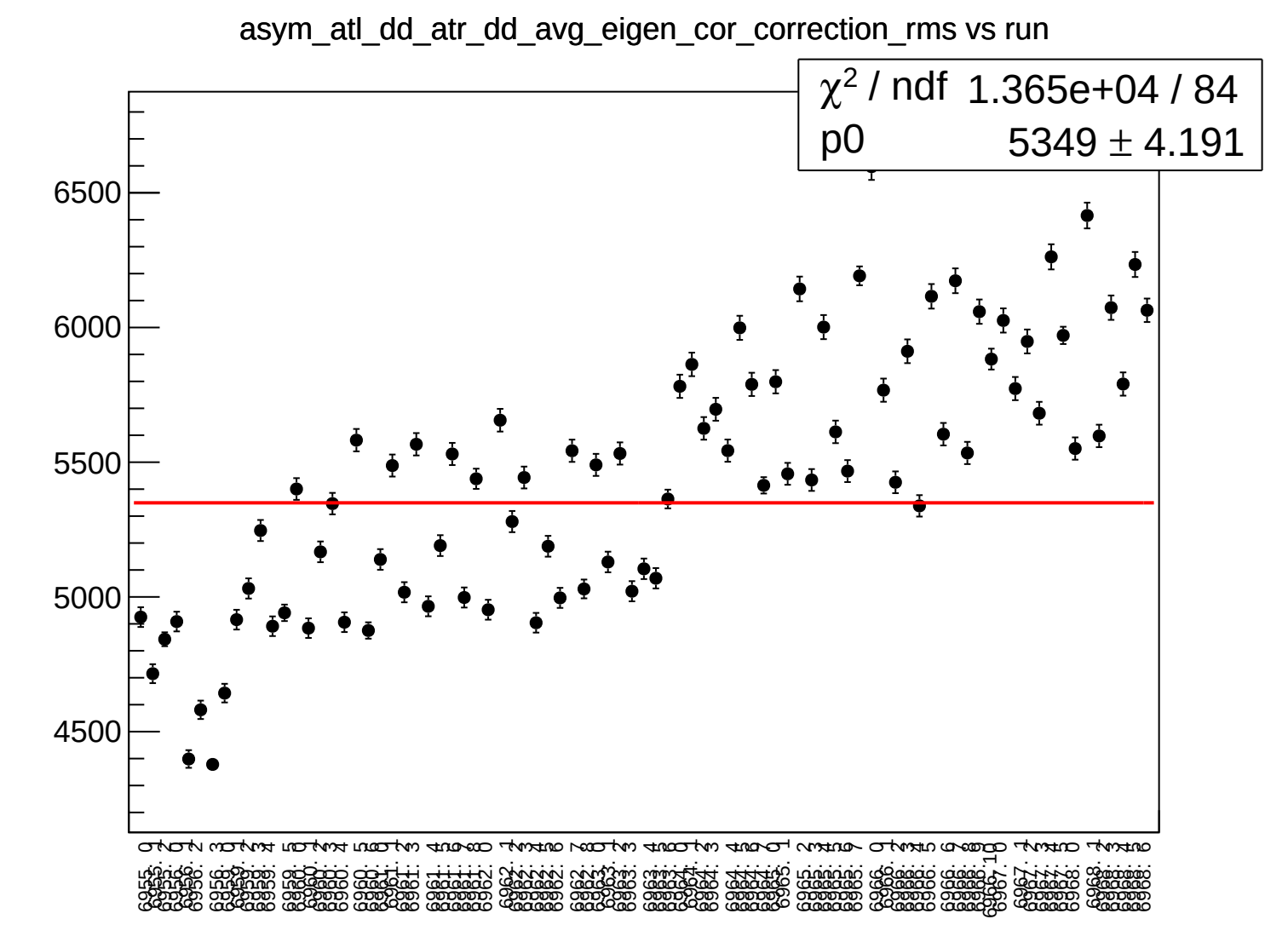

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.365e+04 / 84
p0 5349 ± 4.191
6500
6000
5500
5000
4500

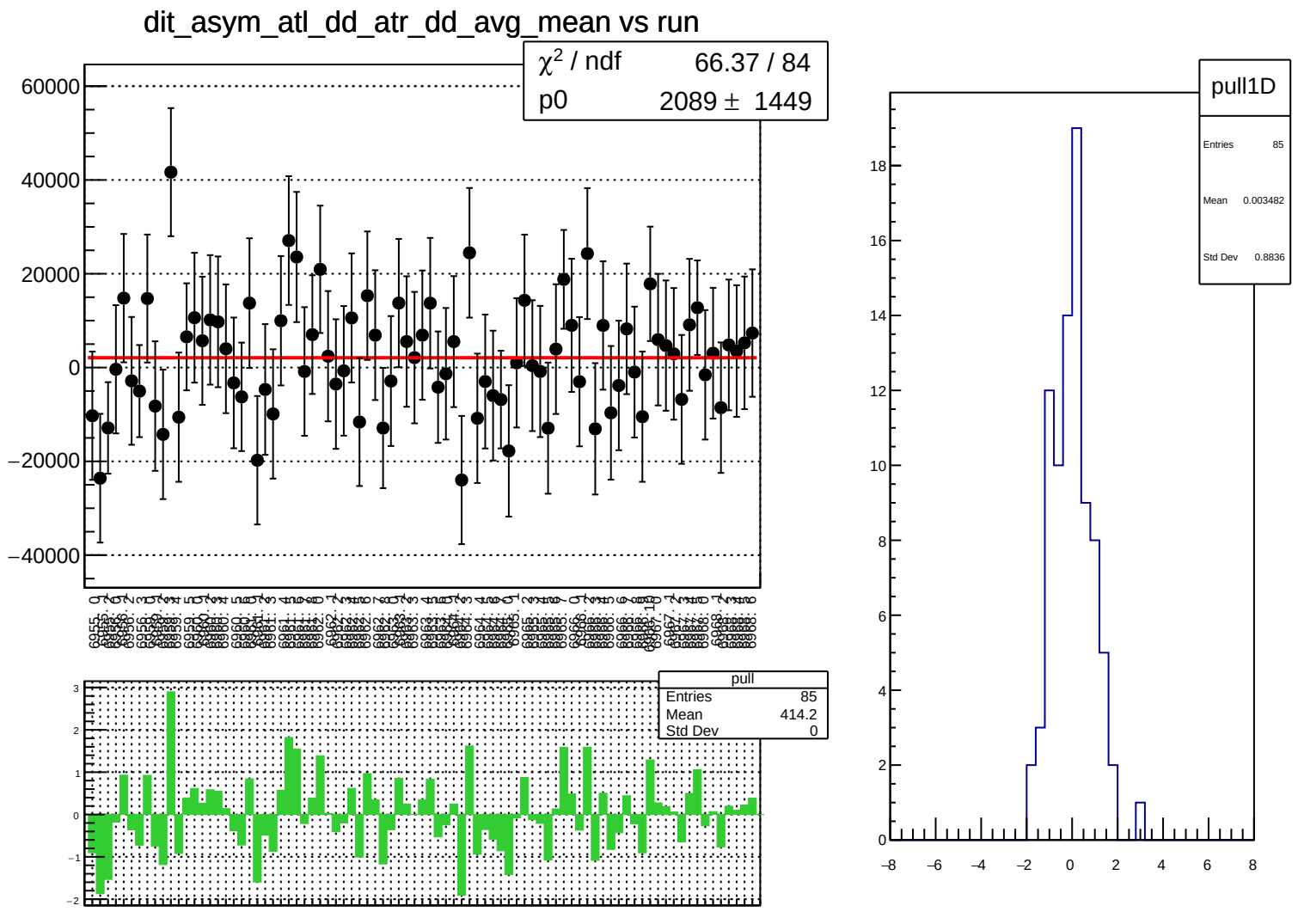

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 71.41 / 84
p0 1691 ± 1394
pull
Entries 85
Mean −839.9
Std Dev 0
pull1D
Entries 85
Mean −0.0009701
Std Dev 0.9166

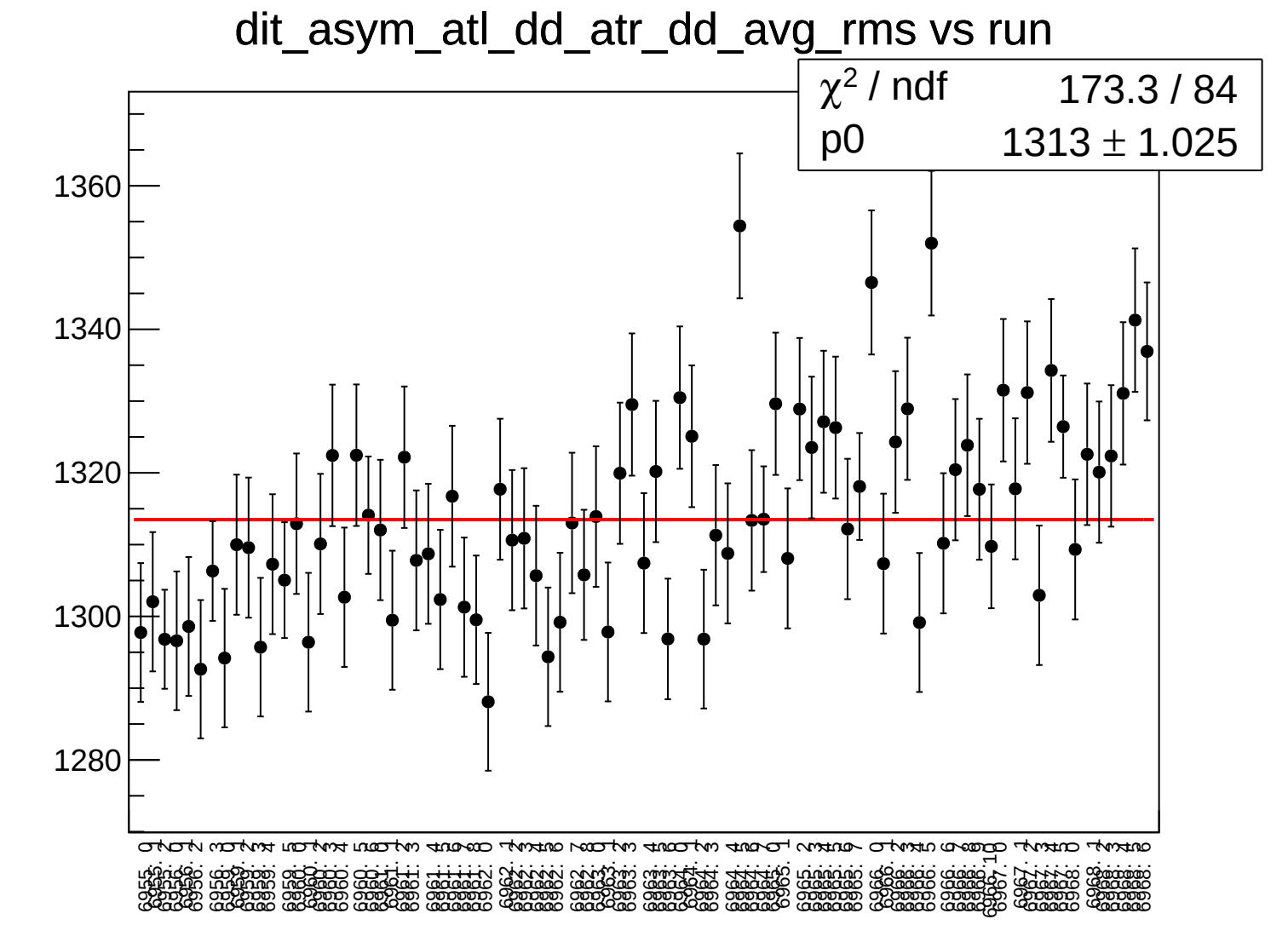

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 105.6 / 84
p0 1263 ± 0.9858
1310
1300
1290
1280
1270
1260
1250
1240
1230

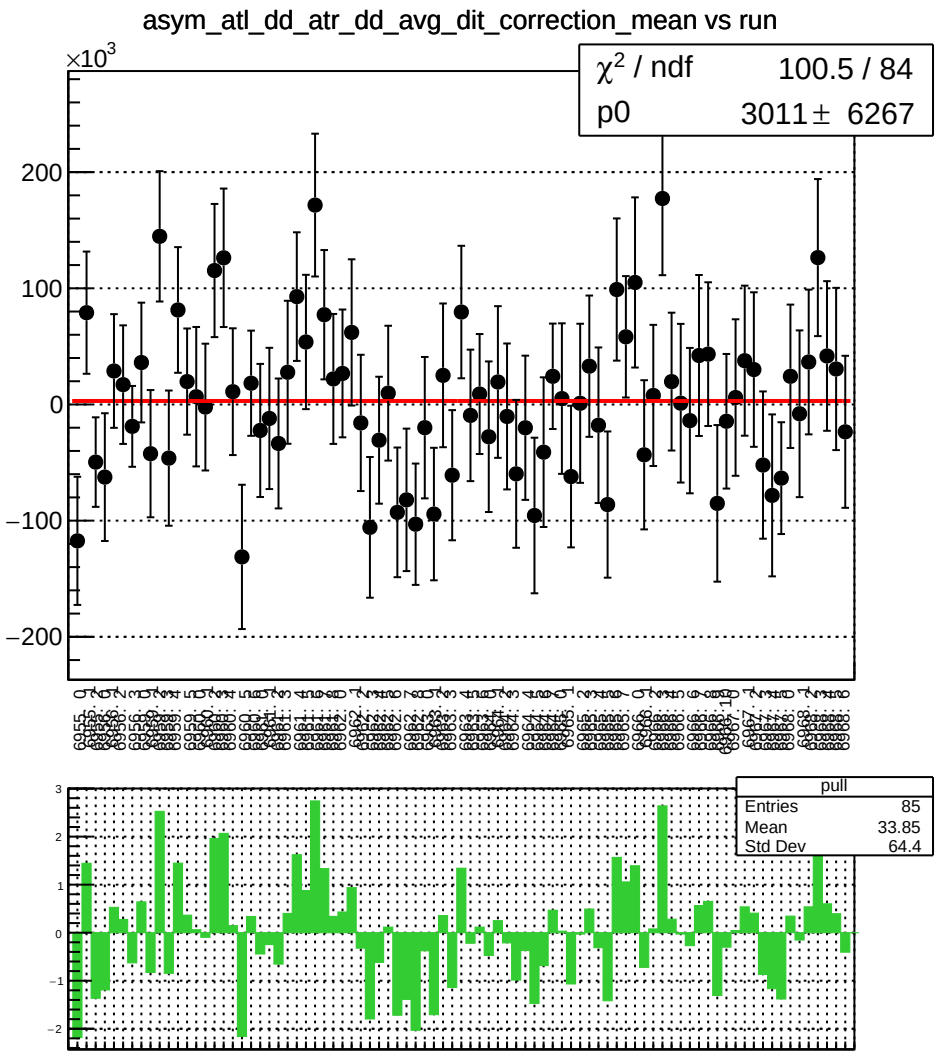

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.9 / 84
p0 2605 ± 5927
pull
Entries 85
Mean 24.59
Std Dev 63.58

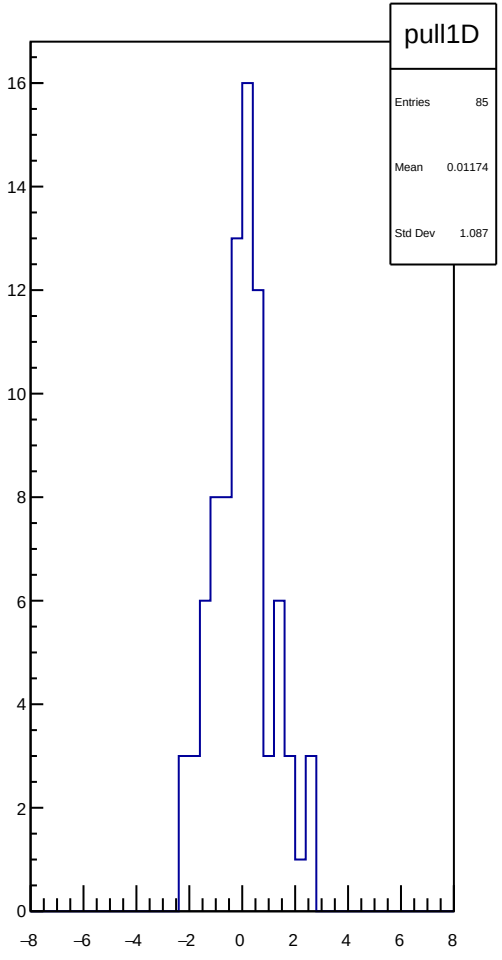

pull1D
Entries 85
Mean 0.01143
Std Dev 1.09

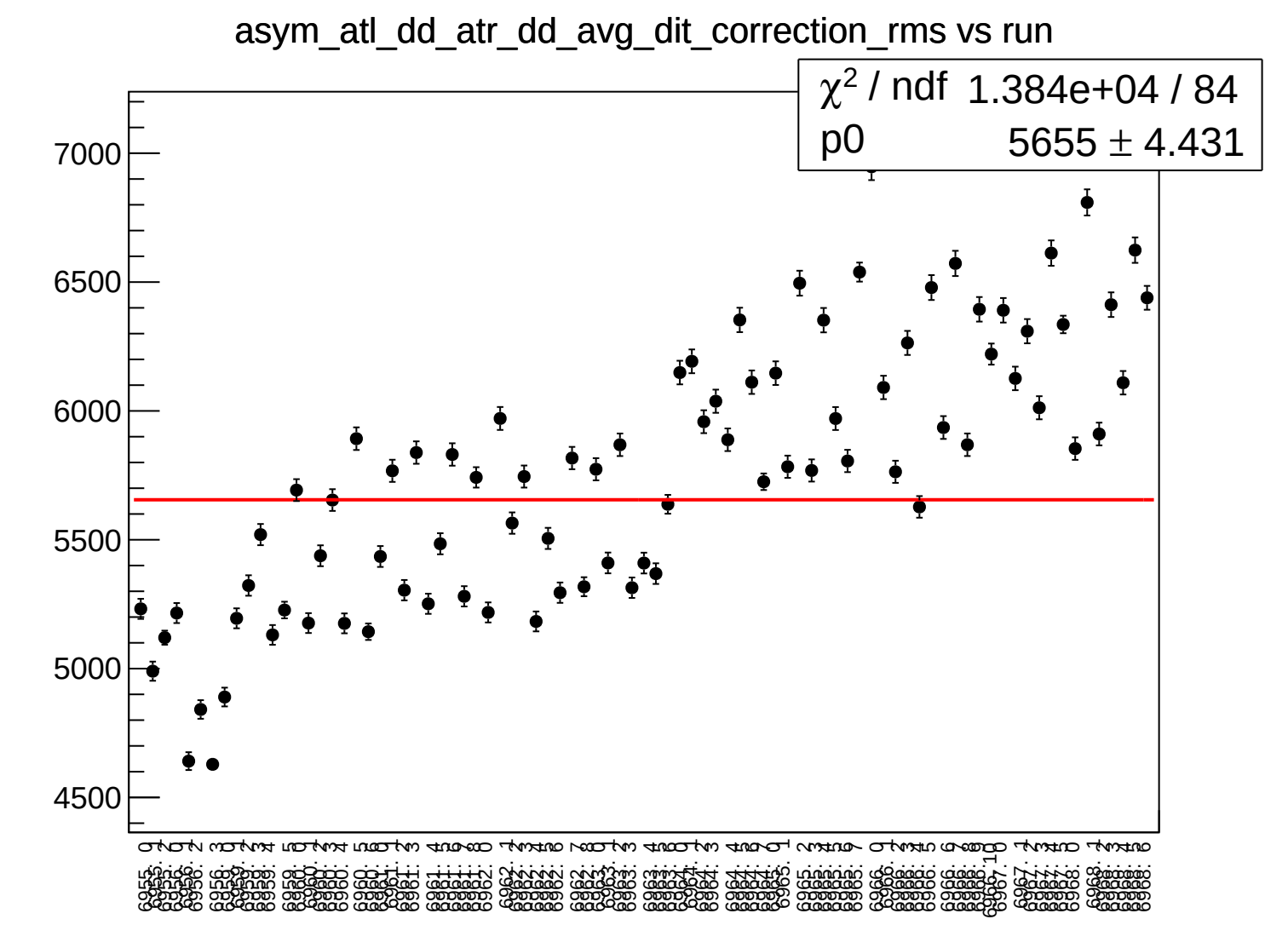

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.365e+04 / 84
p0 5349 ± 4.191
6500
6000
5500
5000
4500

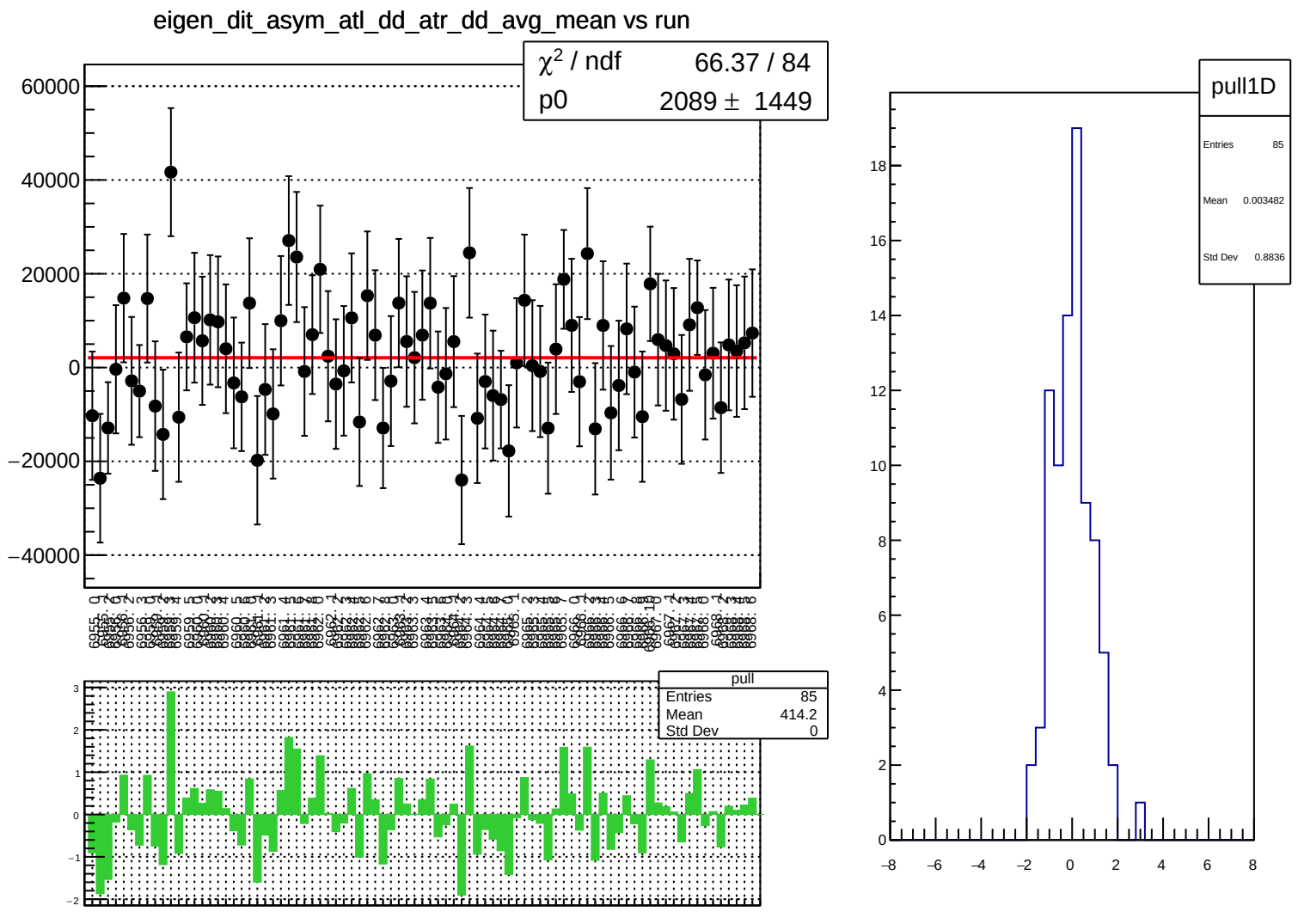

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 66.37 / 84
p0 2089 ± 1449
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 414.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.003482
Std Dev 0.8836
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

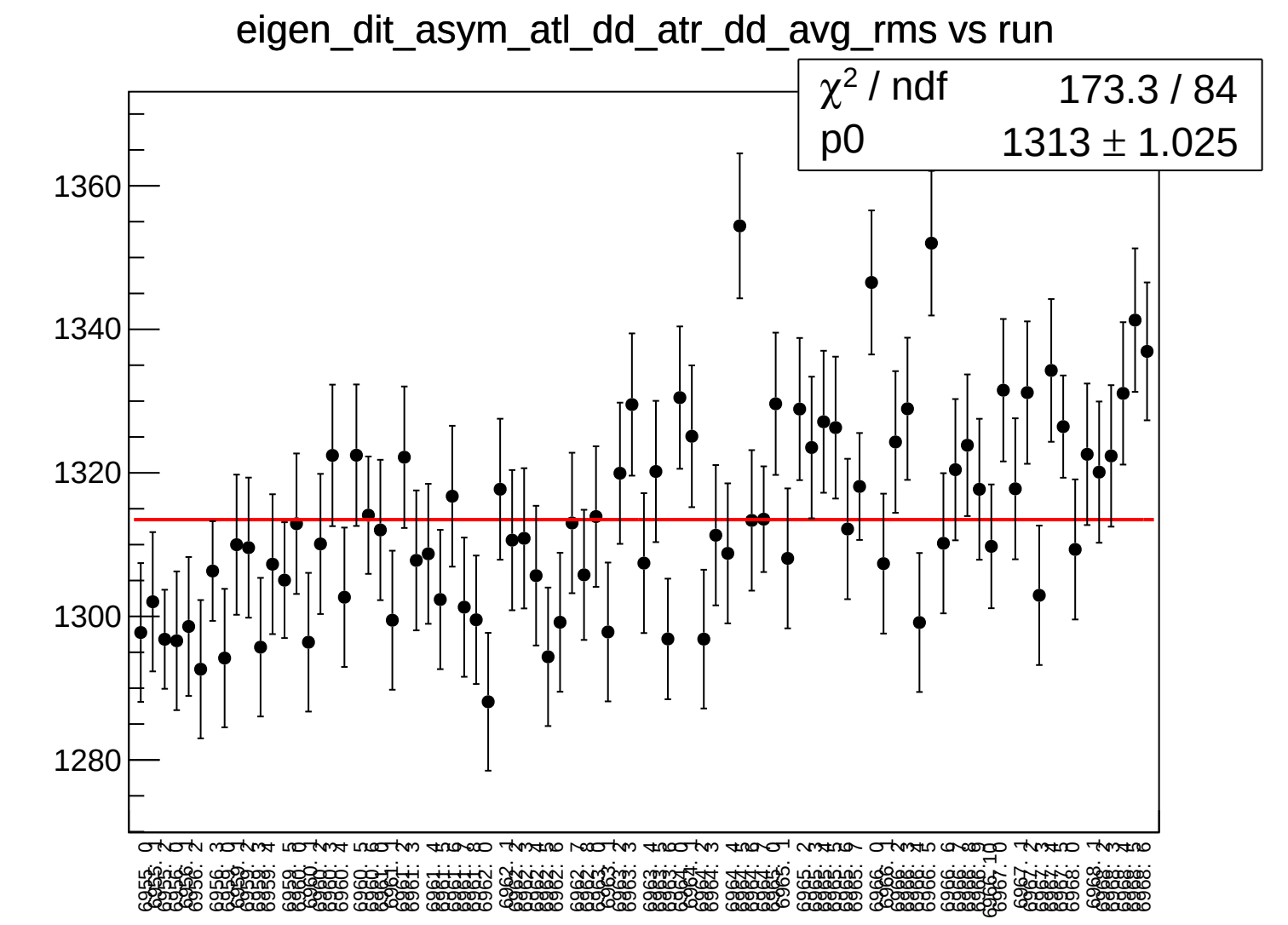

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 173.3 / 84
p0 1313 ± 1.025
1360
1340
1320
1300
1280

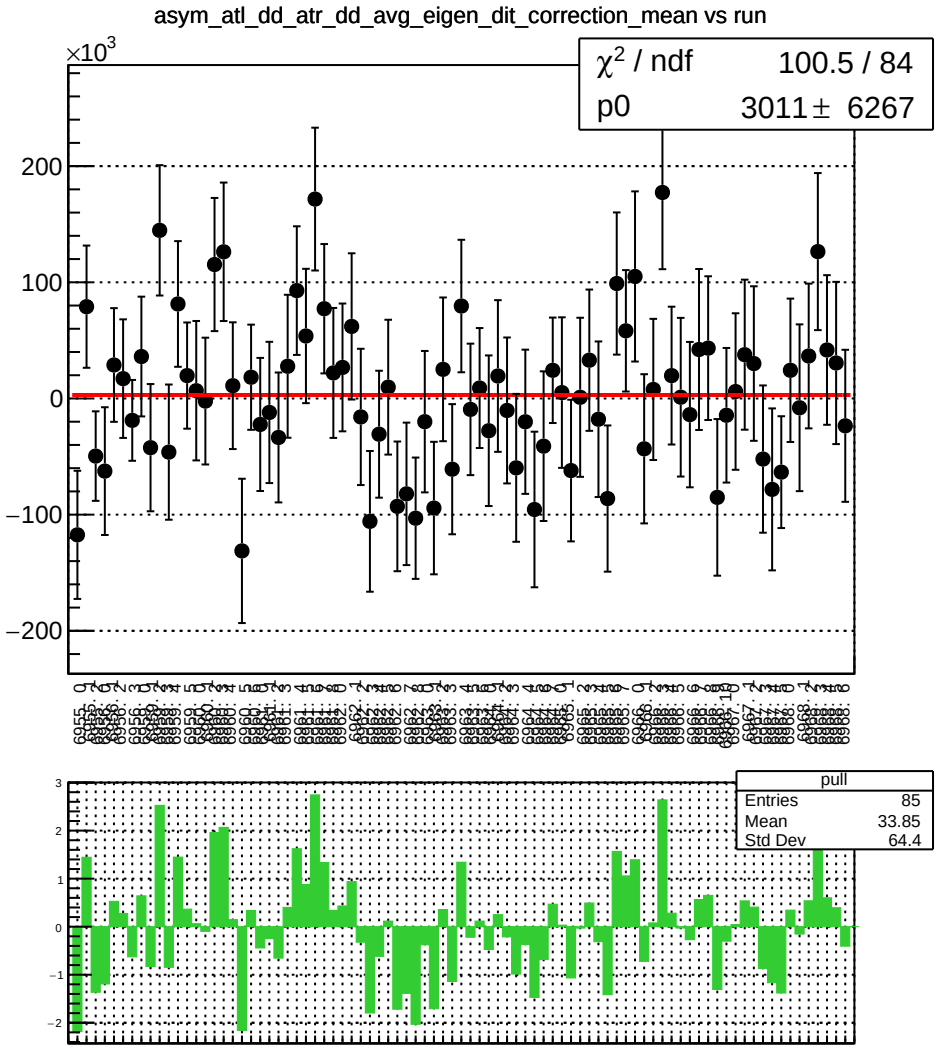

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
χ² / ndf 100.5 / 84
p0 3011 ± 6267
pull
Entries 85
Mean 33.85
Std Dev 64.4

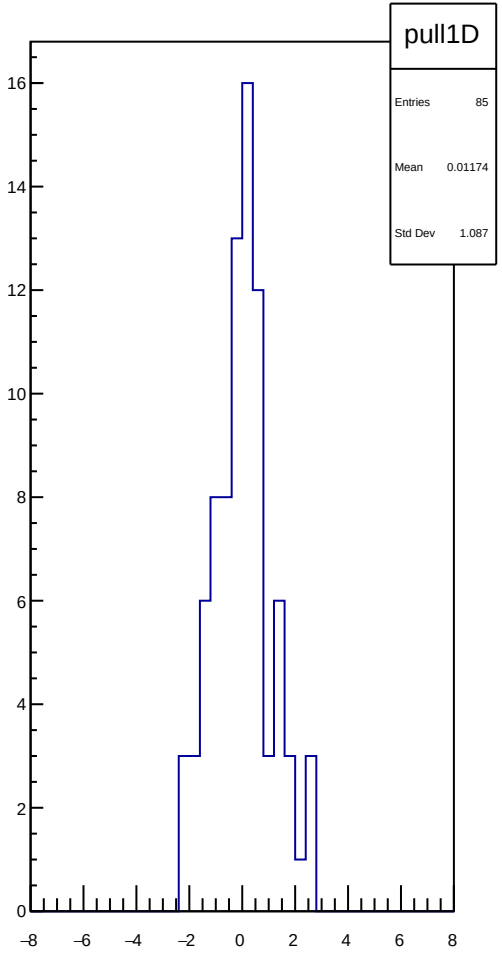

pull1D
Entries 85
Mean 0.01174
Std Dev 1.087

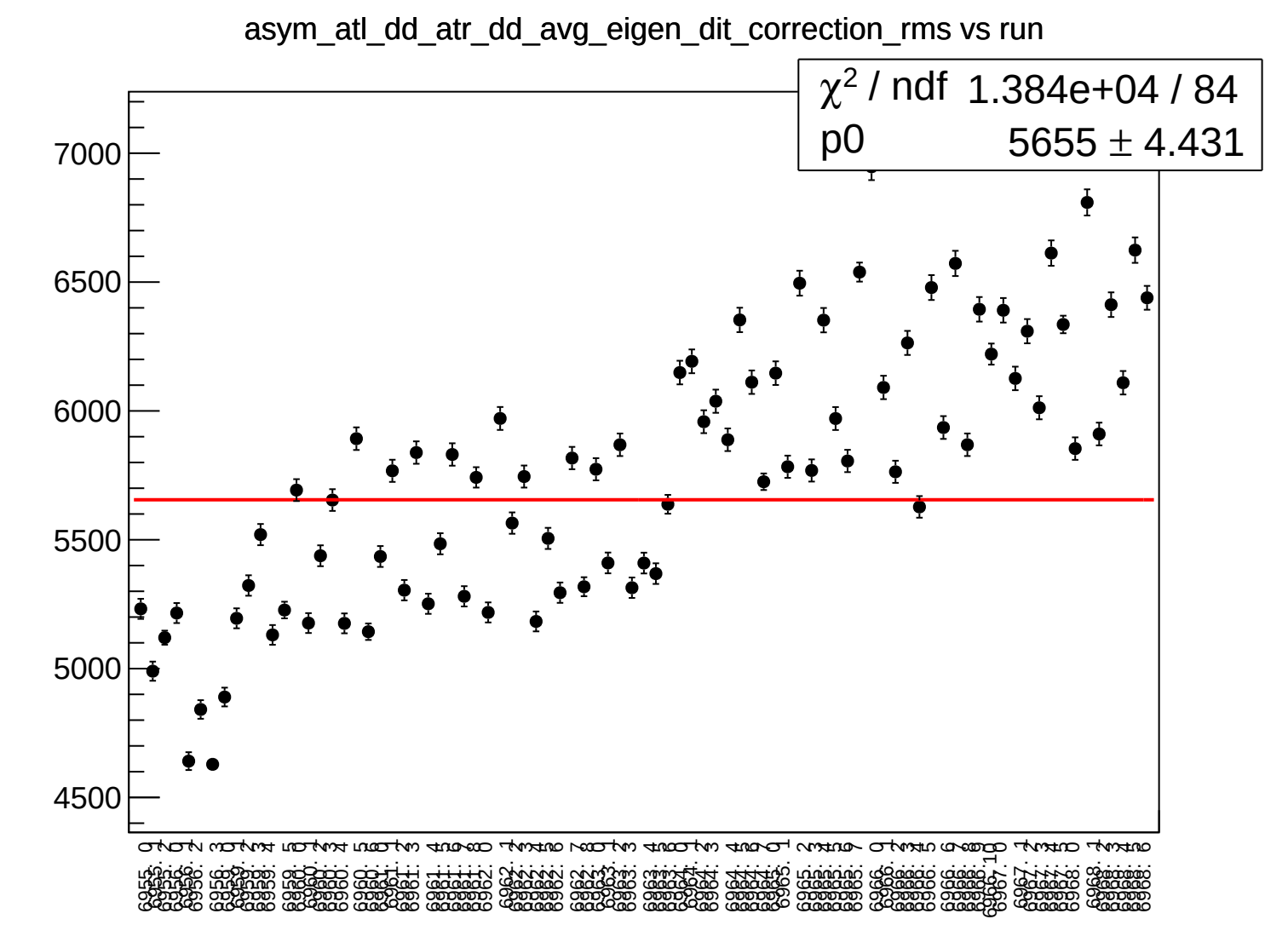

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.384e+04 / 84
p0 5655 ± 4.431
7000
6500
6000
5500
5000
4500

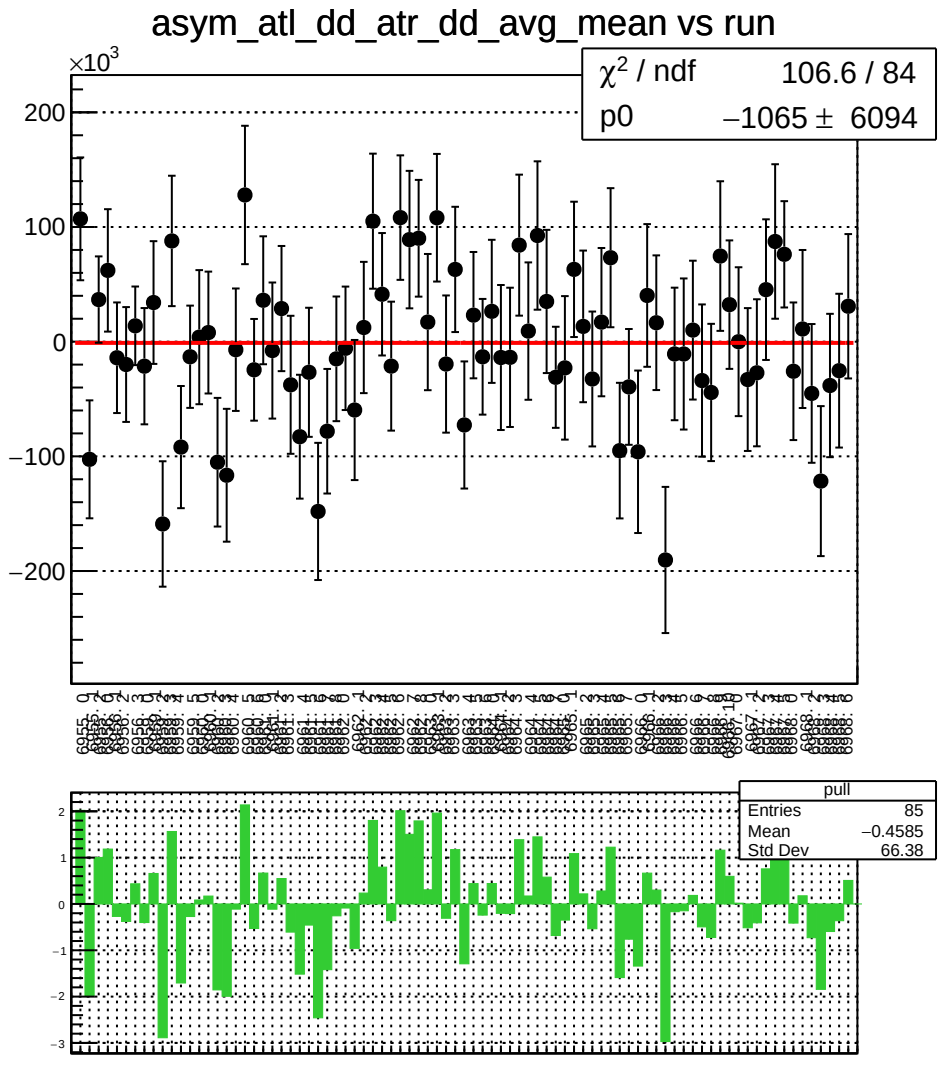

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 66.37 / 84
p0 2089 ± 1449
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 414.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.003482
Std Dev 0.8836
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

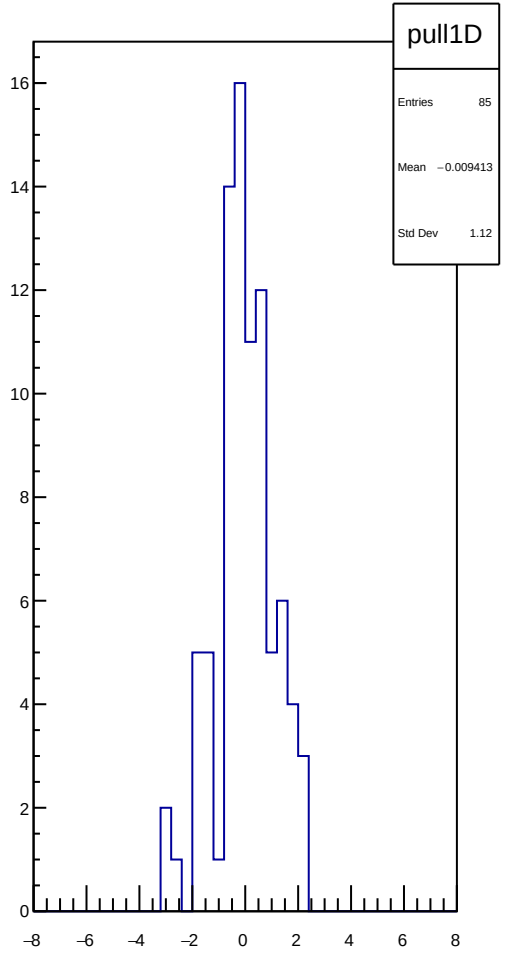

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 173.3 / 84
p0 1313 ± 1.025
1360
1340
1320
1300
1280

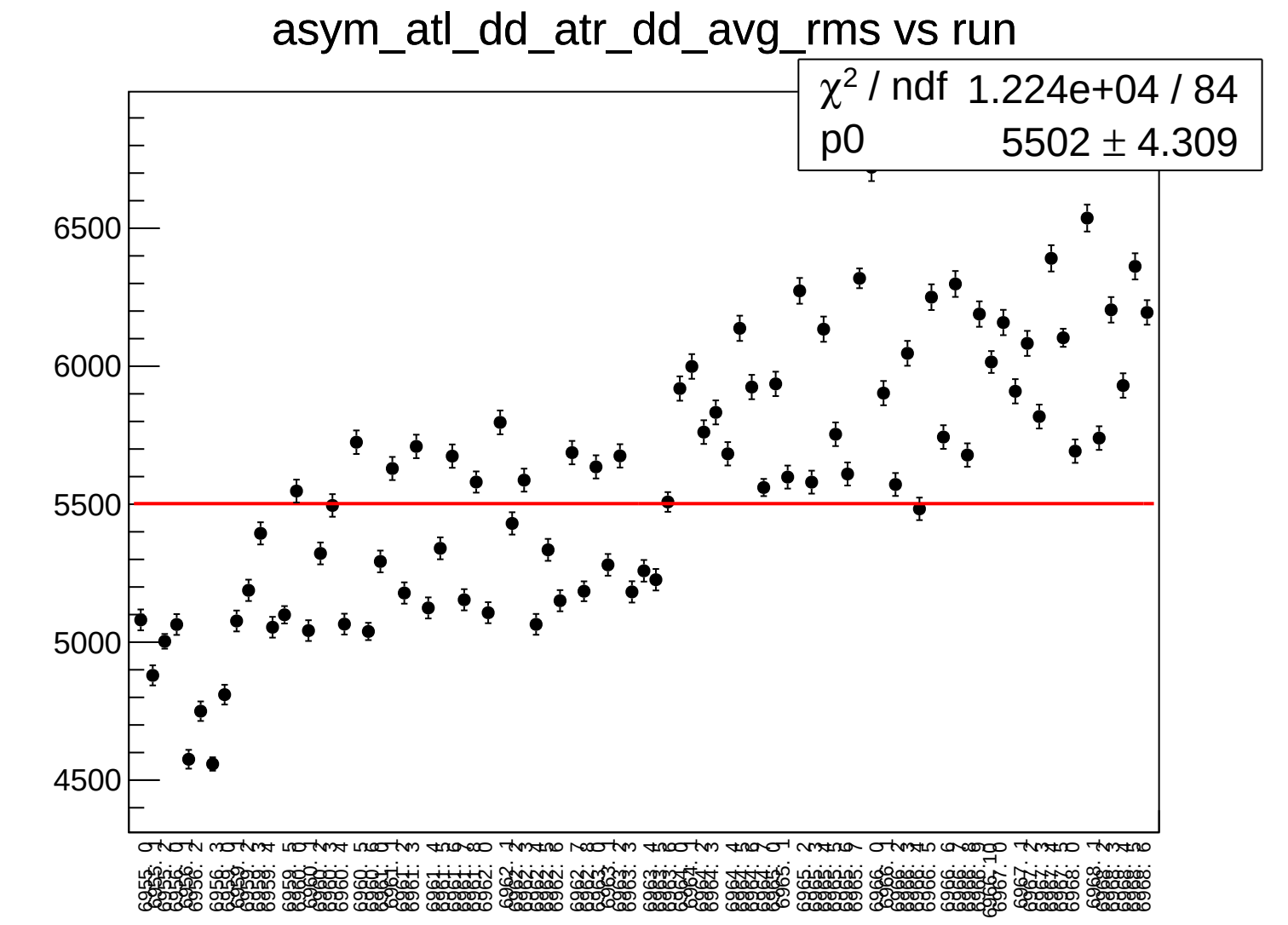

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.5 / 84
p0 3011 ± 6267
×10³
pull
Entries 85
Mean 33.85
Std Dev 64.4

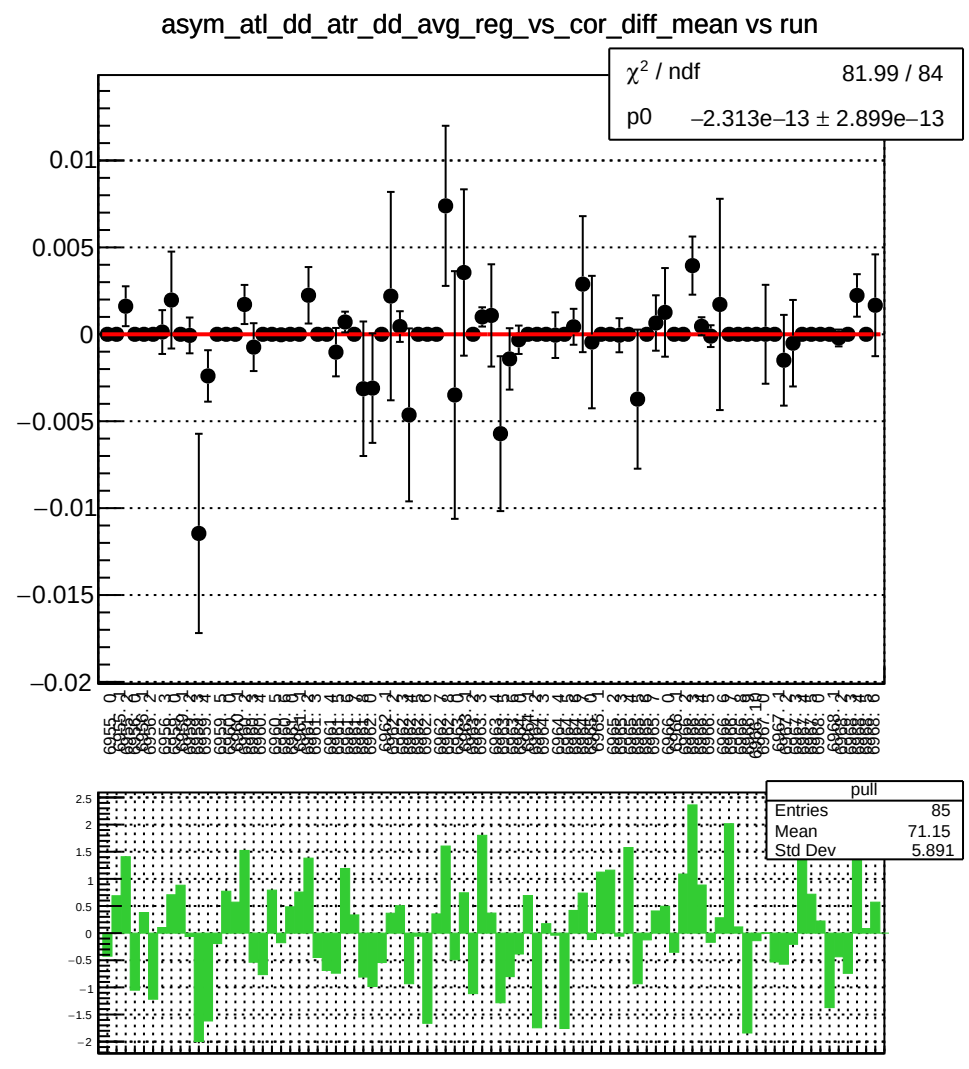

pull1D
Entries 85
Mean 0.01174
Std Dev 1.087

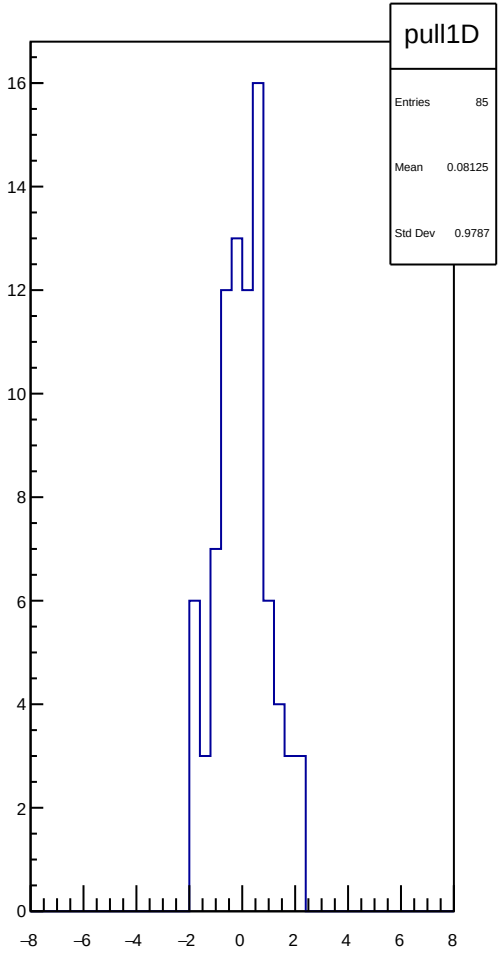

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.384e+04 / 84
p0 5655 ± 4.431
7000
6500
6000
5500
5000
4500

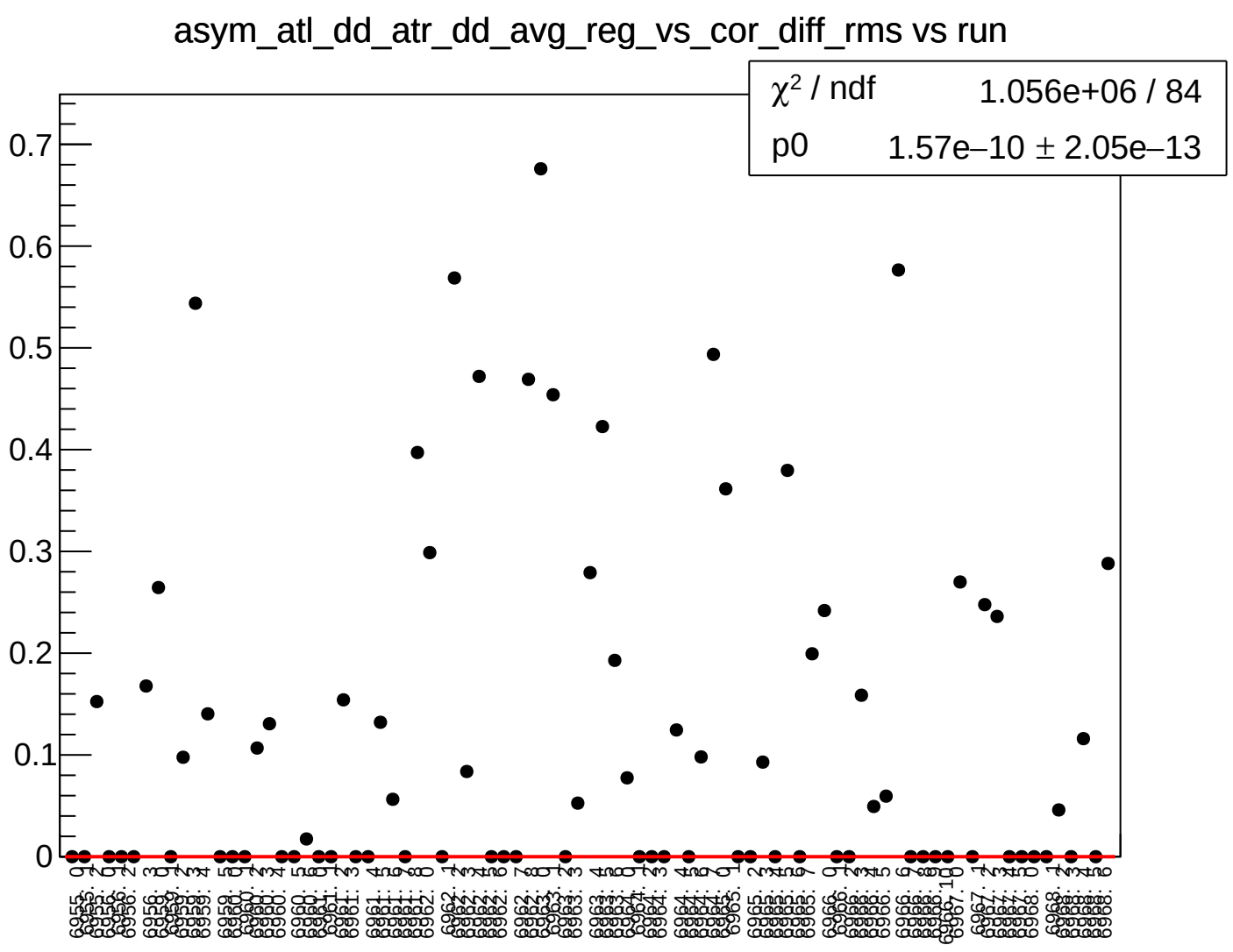

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 106.6 / 84
p0 −1065 ± 6094
200
100
0
−100
−200
pull
Entries 85
Mean −0.4585
Std Dev 66.38
2
1
0
−1
−2
−3

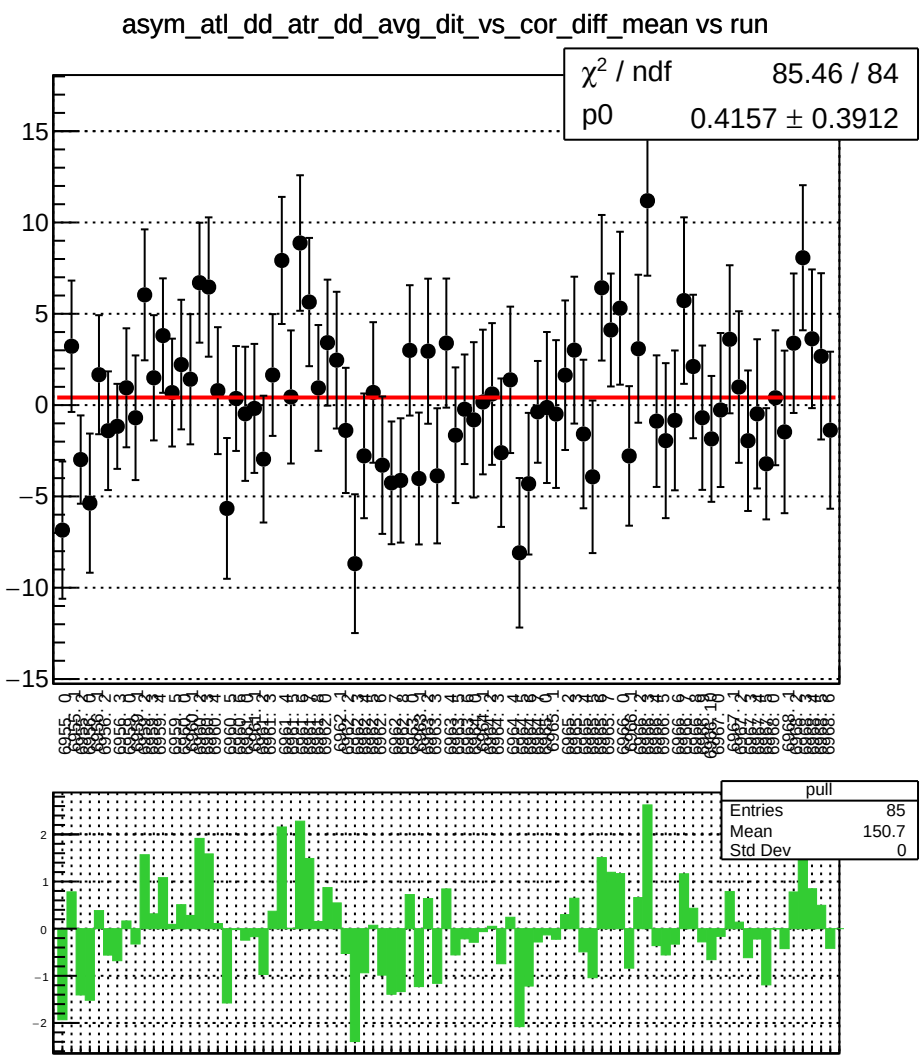

pull1D
Entries 85
Mean −0.009413
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

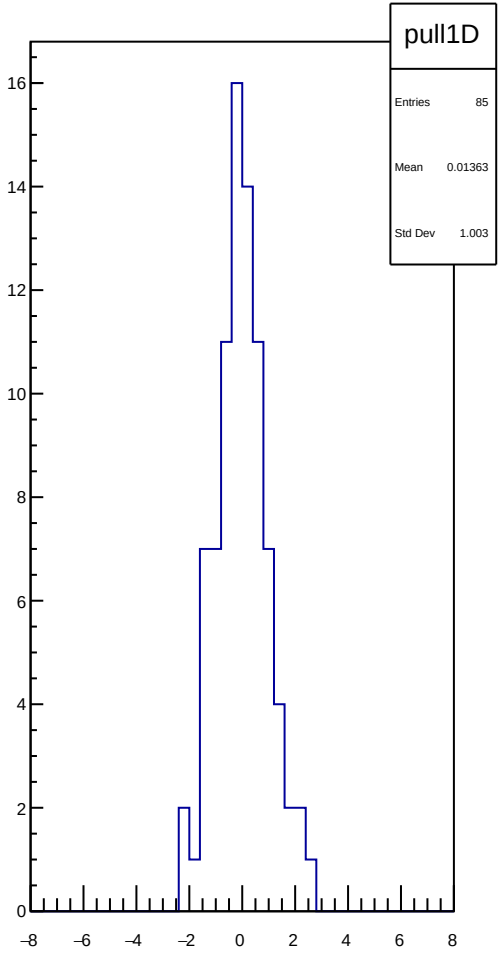

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.224e+04 / 84
p0 5502 ± 4.309
6500
6000
5500
5000
4500

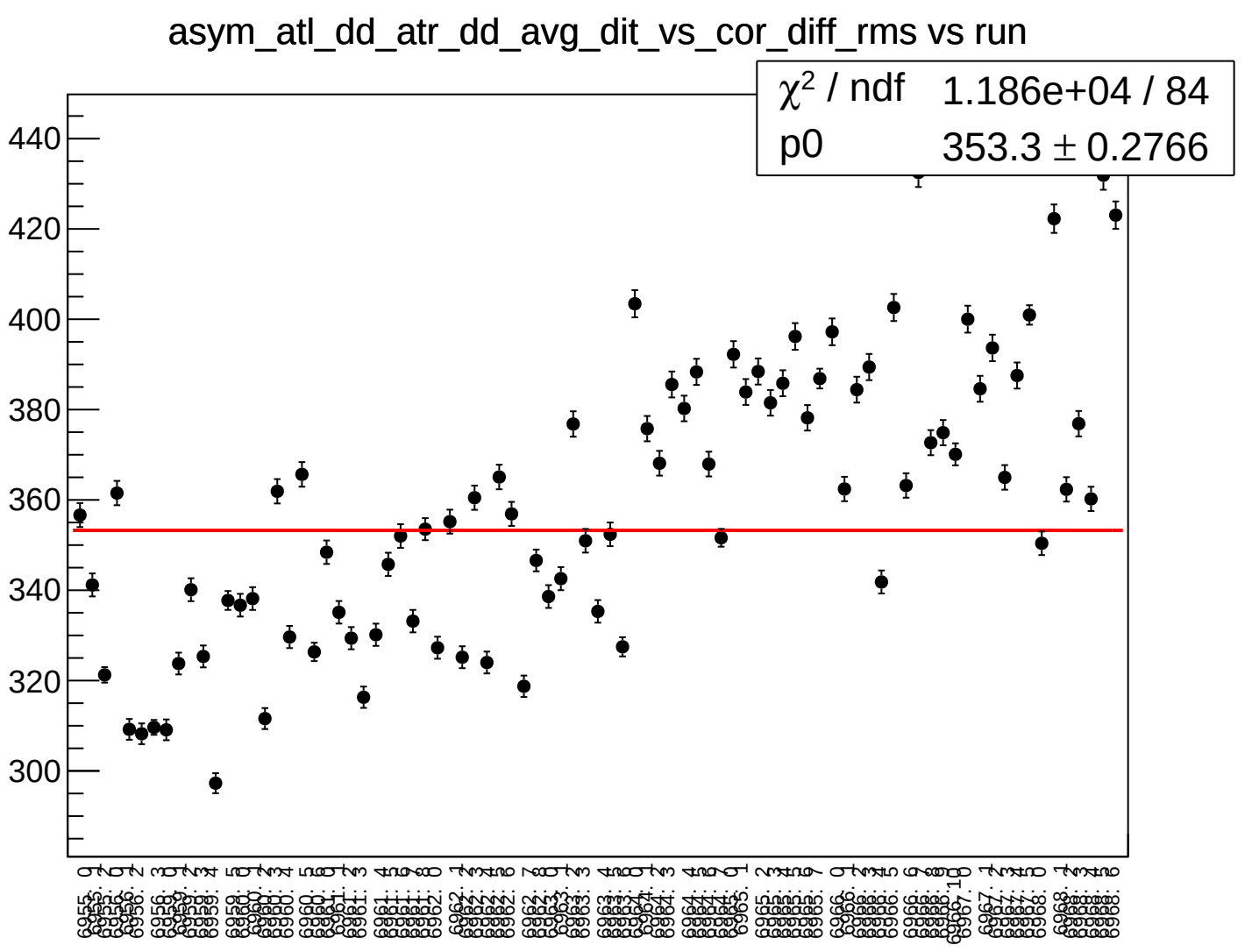

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.99 / 84
p0 −2.313e−13 ± 2.899e−13
pull
Entries 85
Mean 71.15
Std Dev 5.891

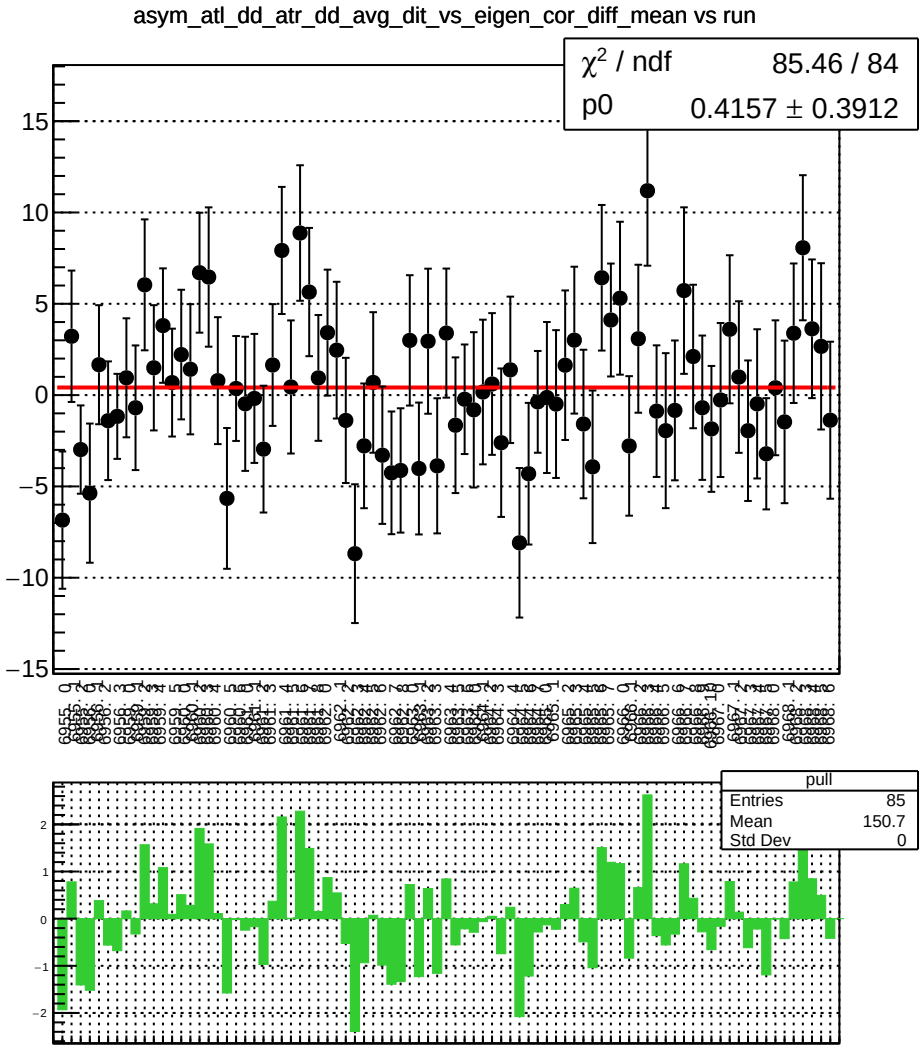

pull1D
Entries 85
Mean 0.08125
Std Dev 0.9787

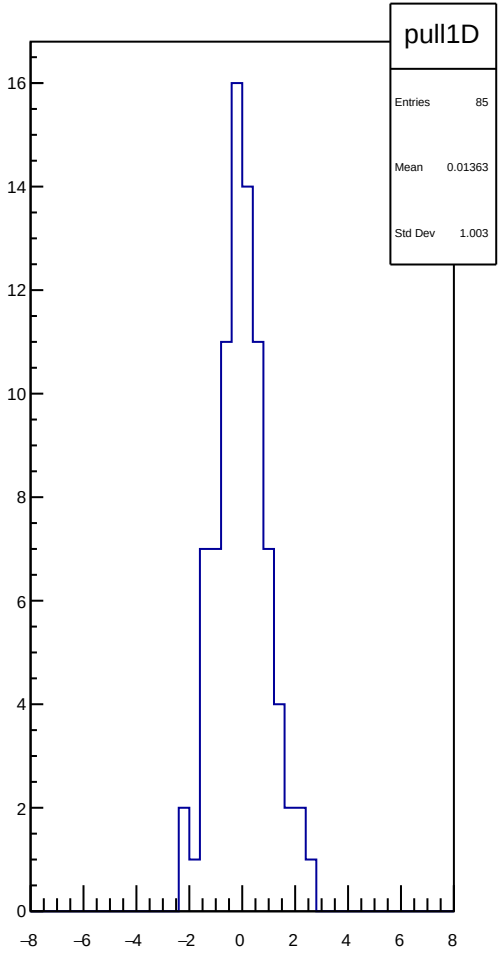

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.056e+06 / 84
p0 1.57e−10 ± 2.05e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

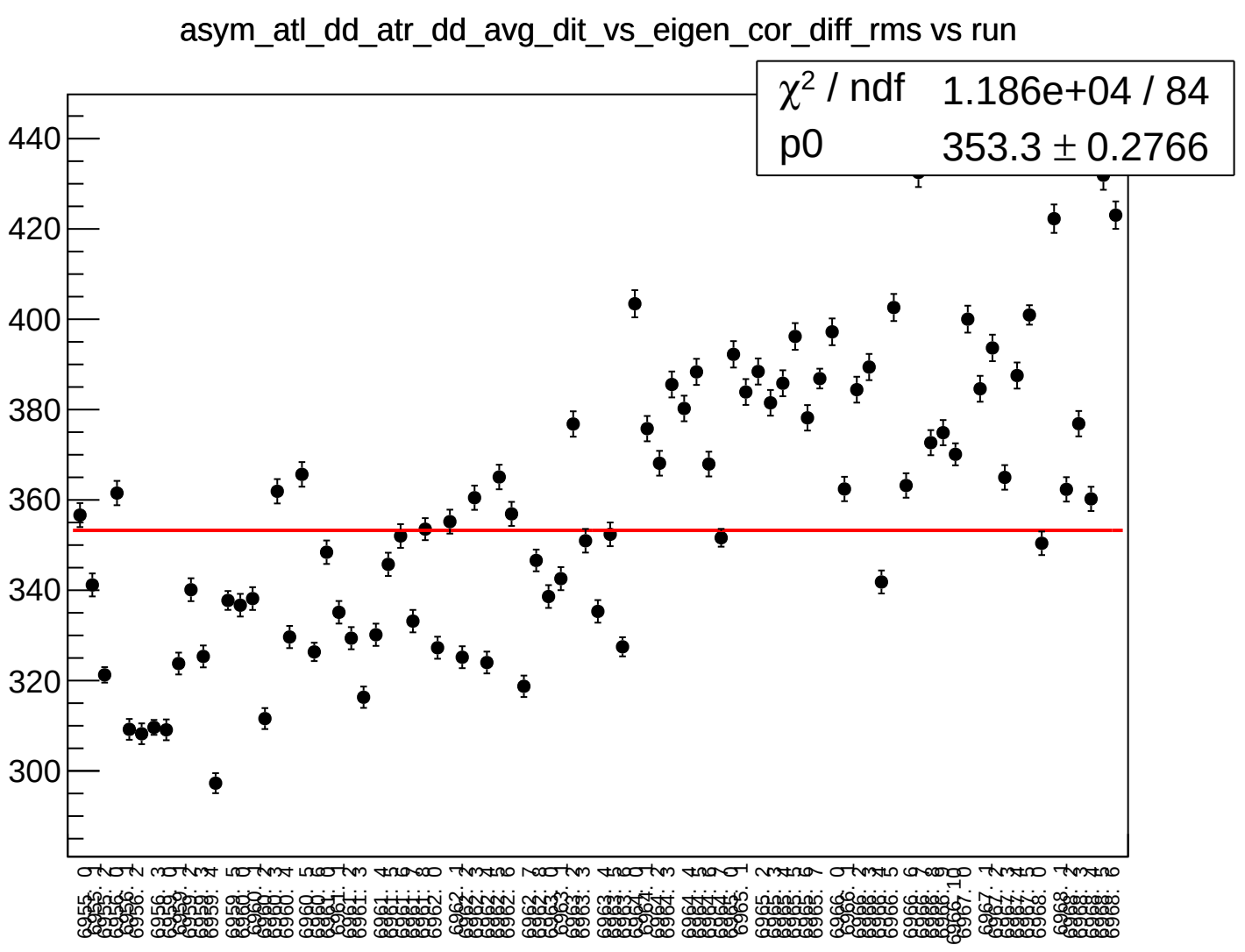

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.46 / 84
p0 0.4157 ± 0.3912
pull
Entries 85
Mean 150.7
Std Dev 0

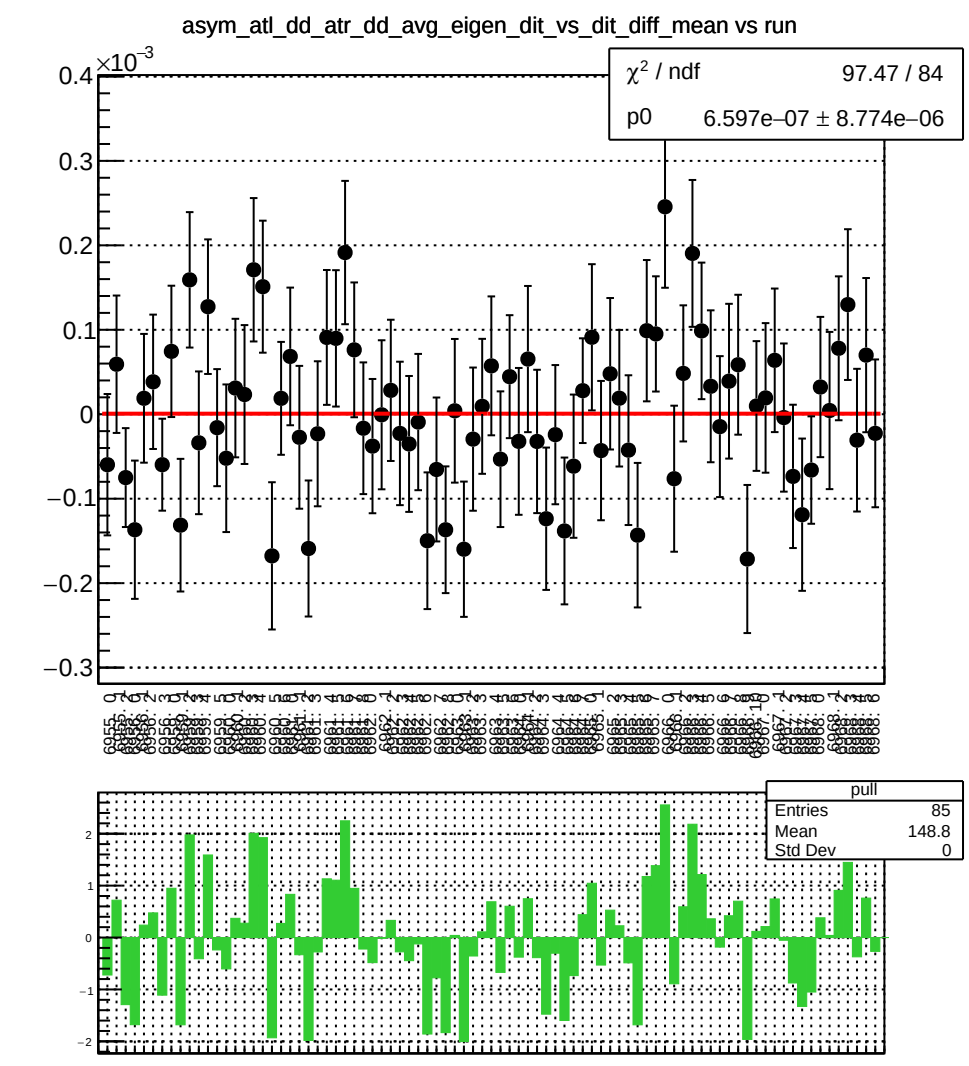

pull1D
Entries 85
Mean 0.01363
Std Dev 1.003

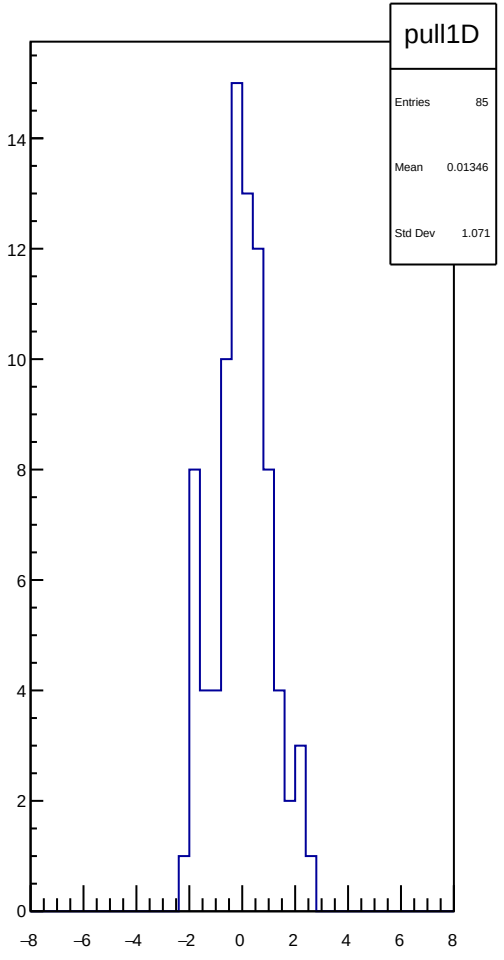

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 84
p0 353.3 ± 0.2766
440
420
400
380
360
340
320
300

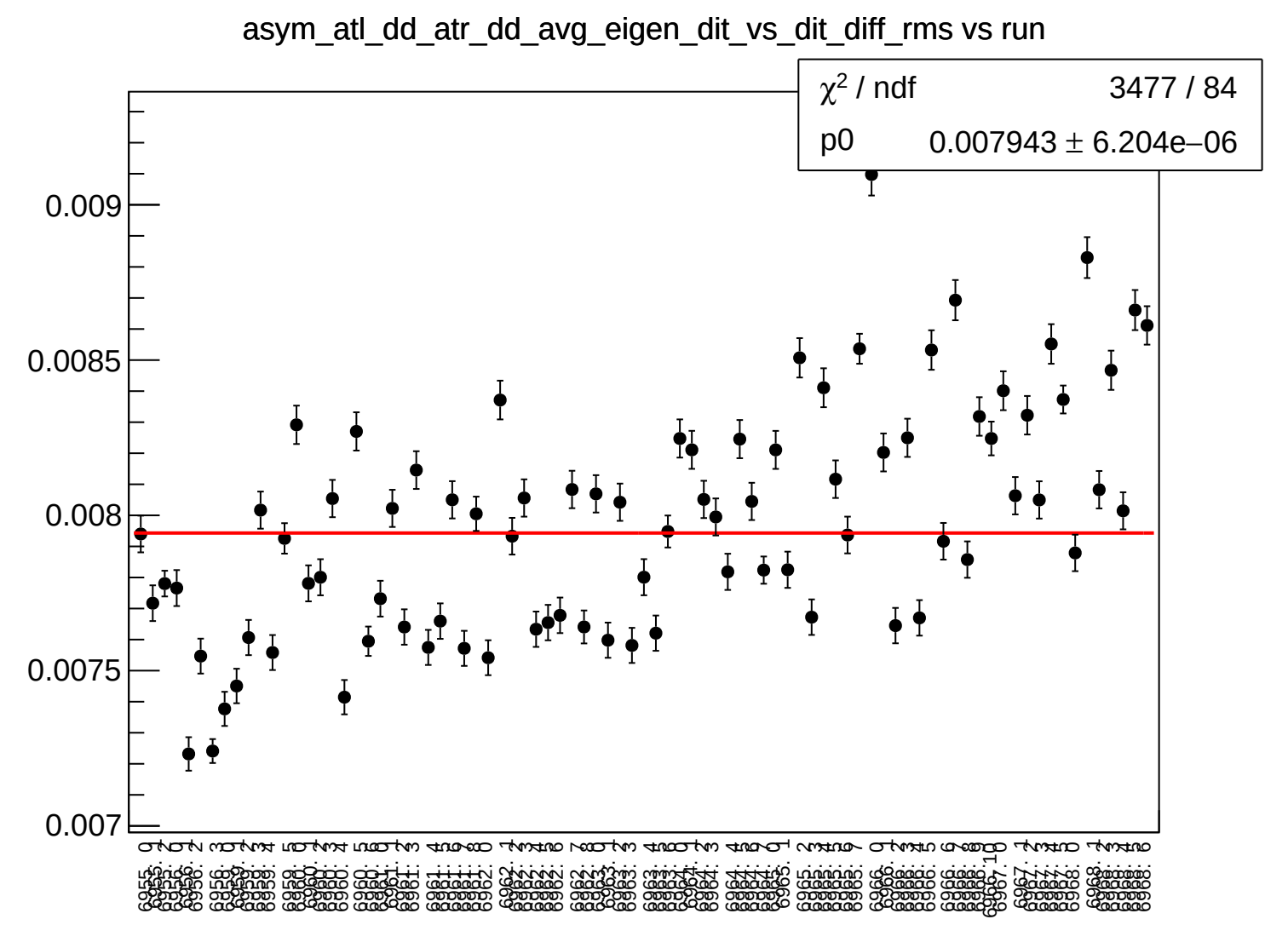

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.46 / 84
p0 0.4157 ± 0.3912
pull
Entries 85
Mean 150.7
Std Dev 0

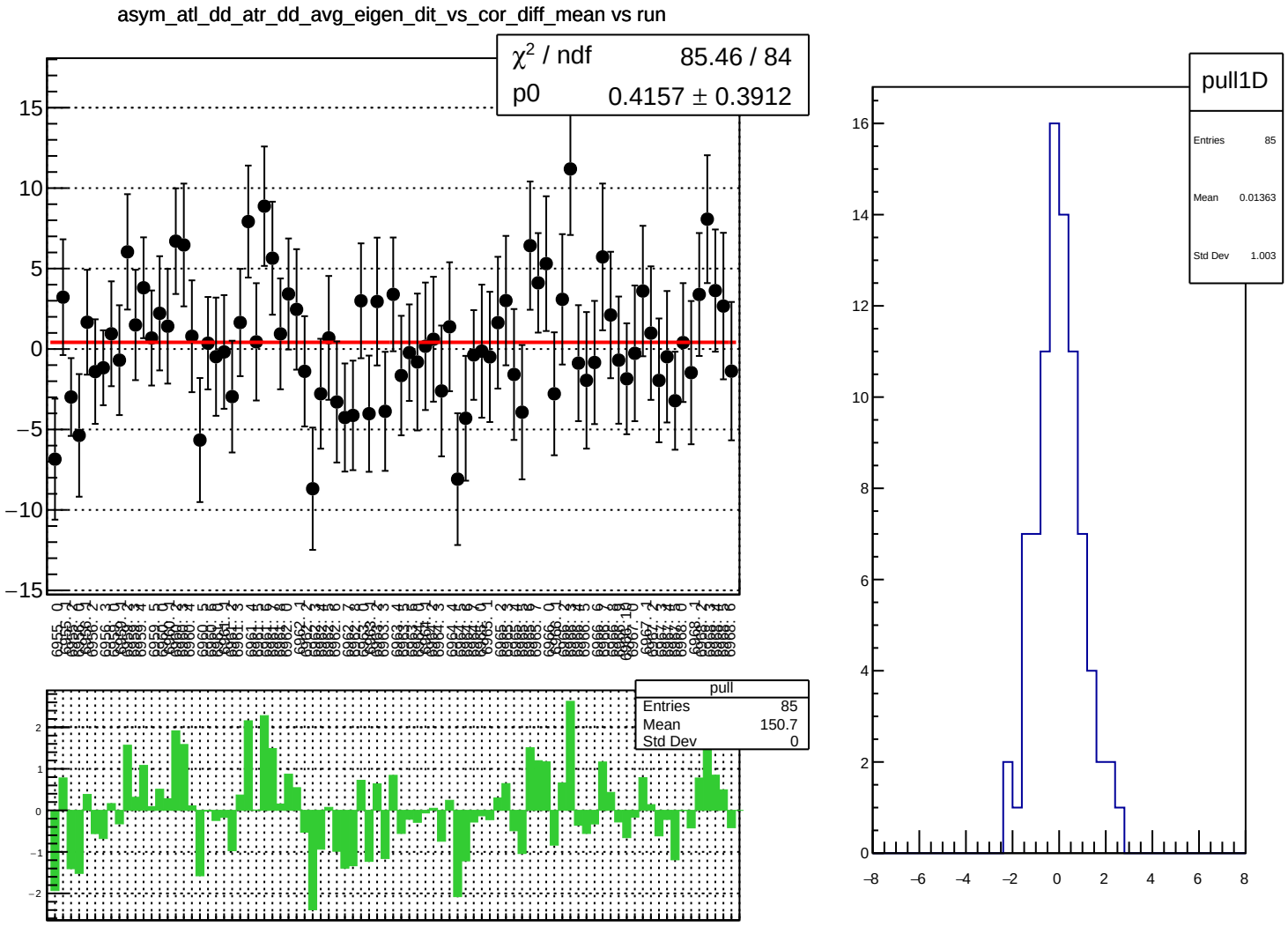

pull1D
Entries 85
Mean 0.01363
Std Dev 1.003

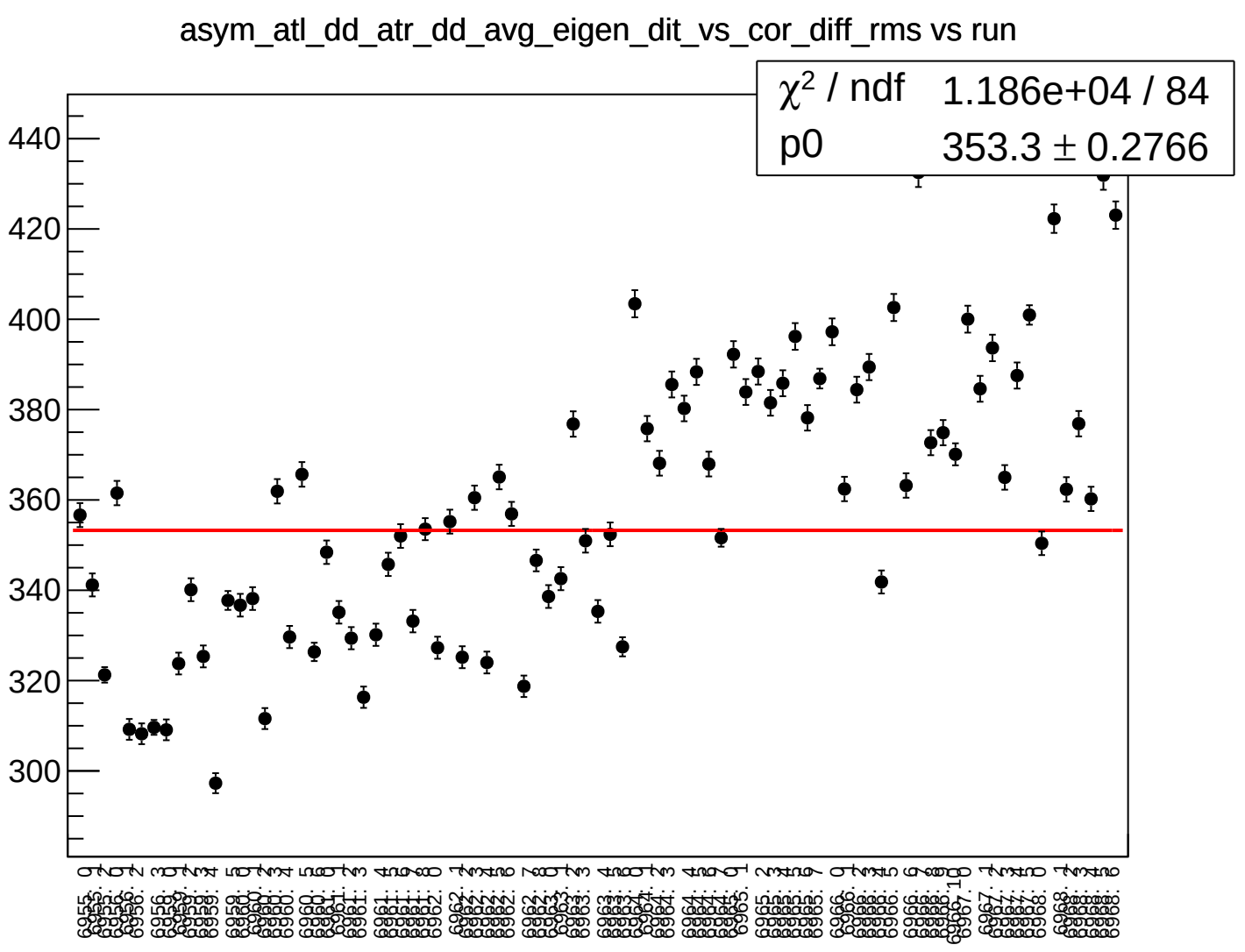

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 84
p0 353.3 ± 0.2766
440
420
400
380
360
340
320
300

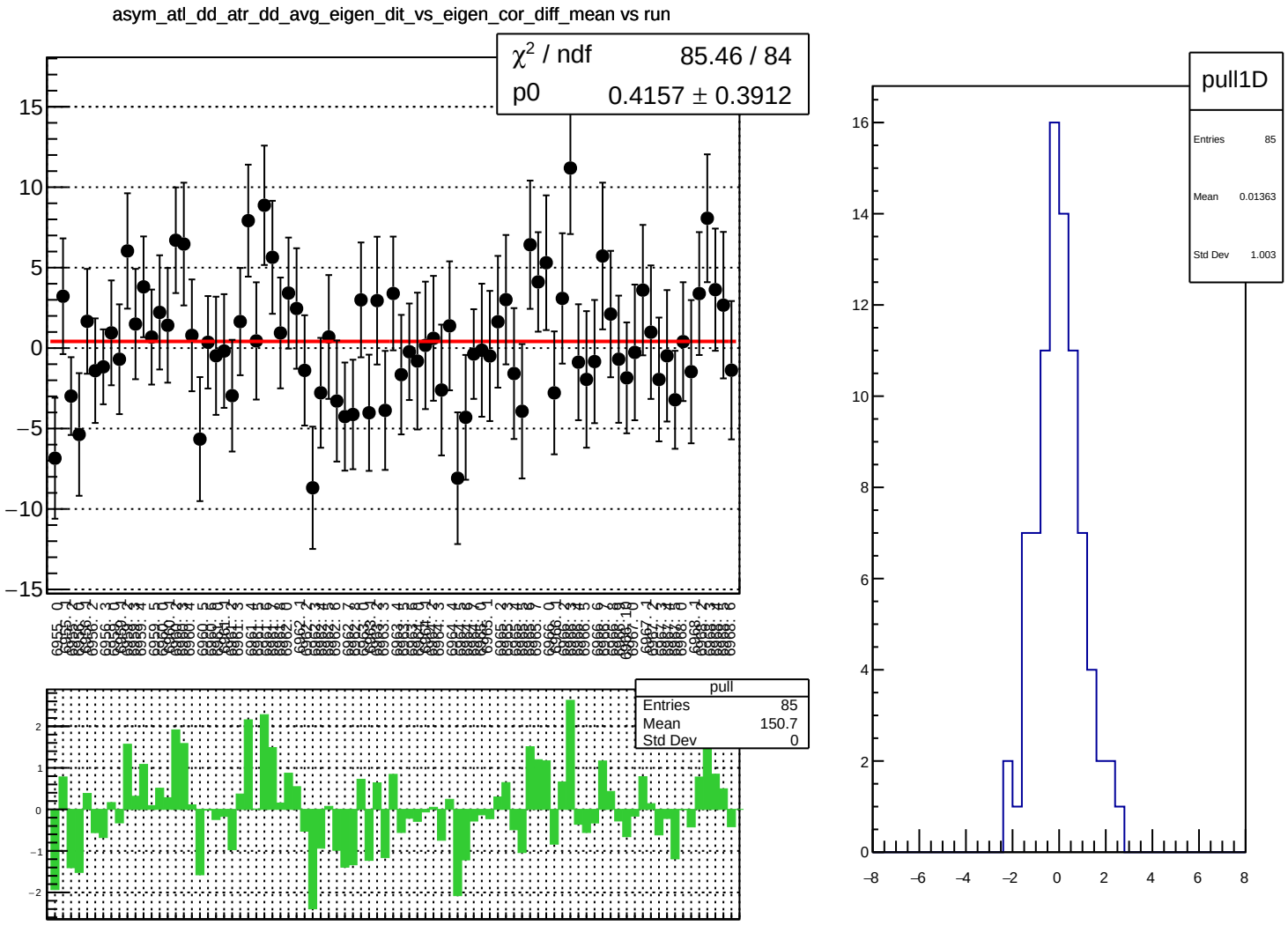

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.47 / 84
p0 6.597e−07 ± 8.774e−06
pull
Entries 85
Mean 148.8
Std Dev 0

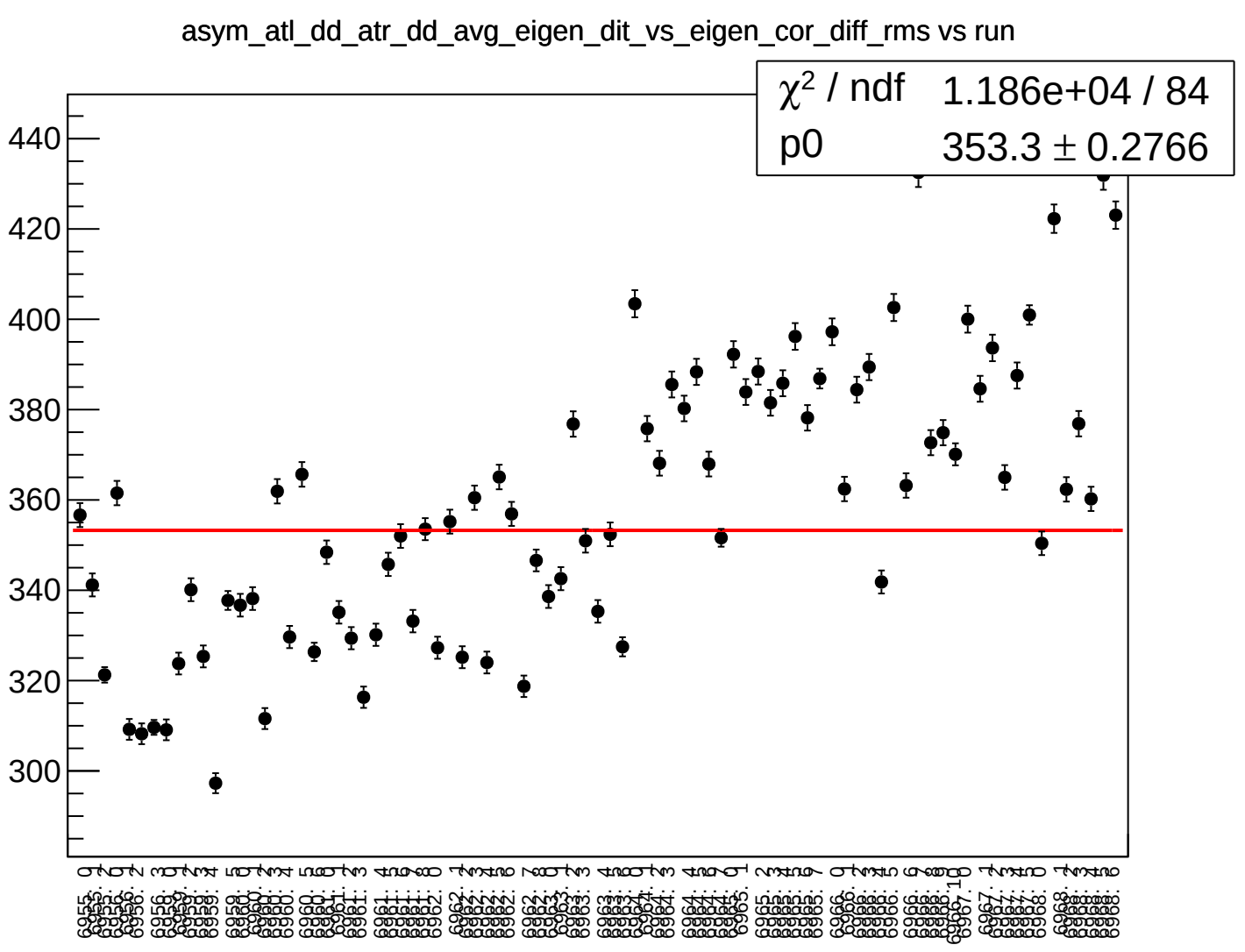

pull1D
Entries 85
Mean 0.01346
Std Dev 1.071

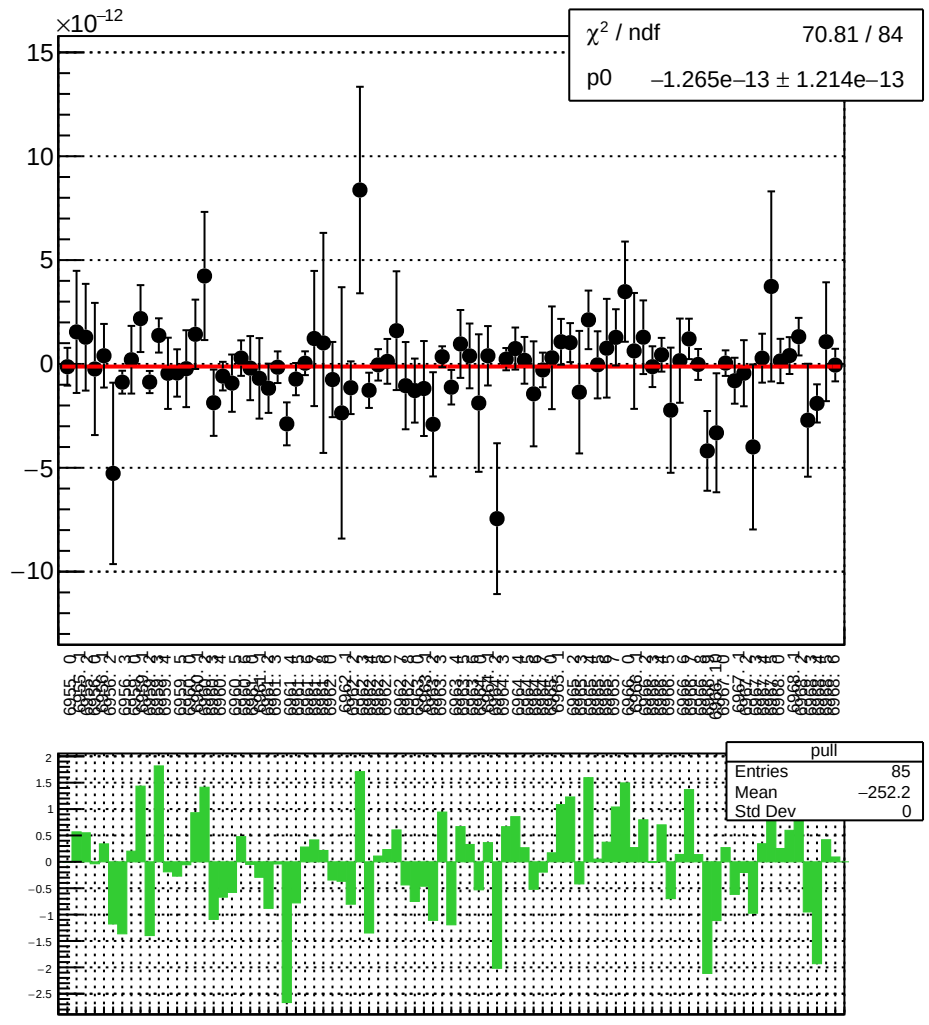

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3477 / 84
p0 0.007943 ± 6.204e−06
0.009
0.0085
0.008
0.0075
0.007

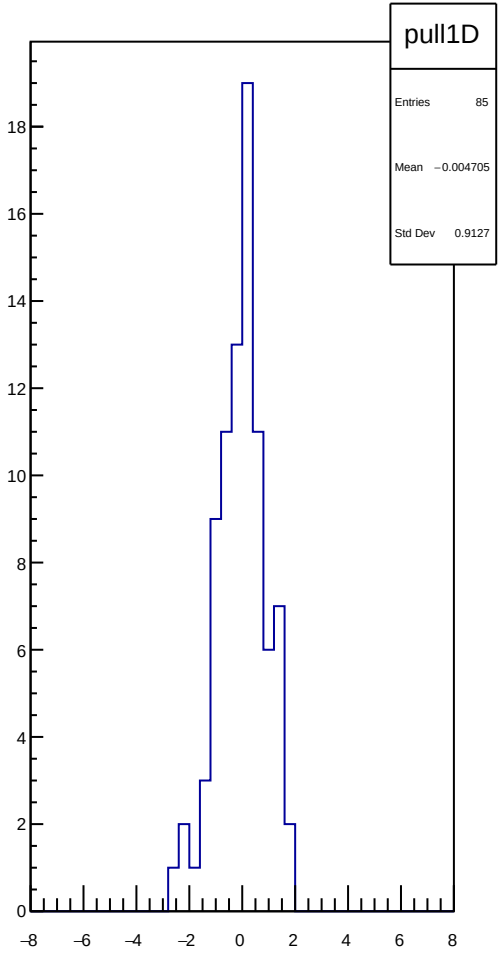

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.46 / 84
p0 0.4157 ± 0.3912
pull
Entries 85
Mean 150.7
Std Dev 0
pull1D
Entries 85
Mean 0.01363
Std Dev 1.003

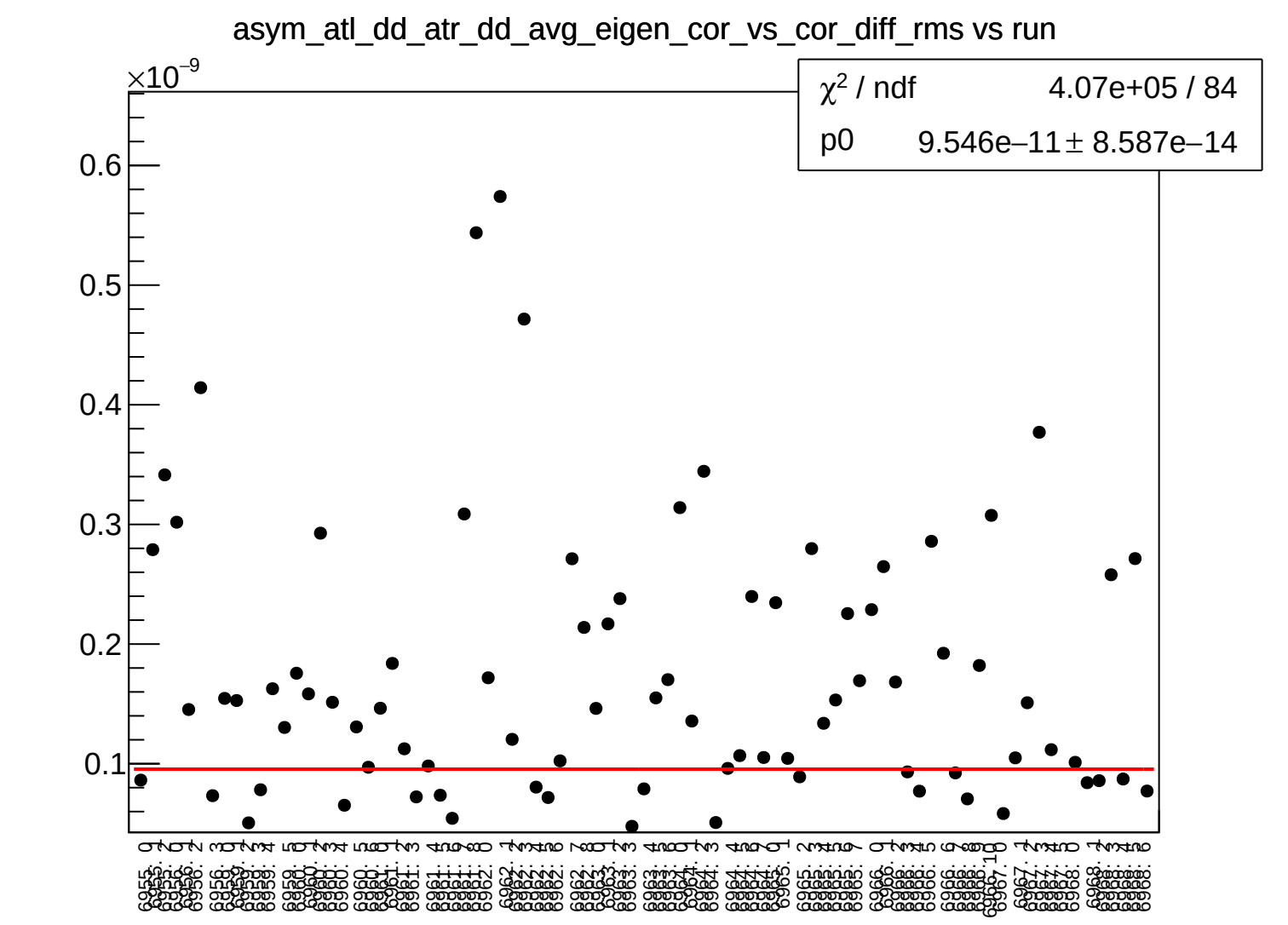

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 84
p0 353.3 ± 0.2766
440
420
400
380
360
340
320
300

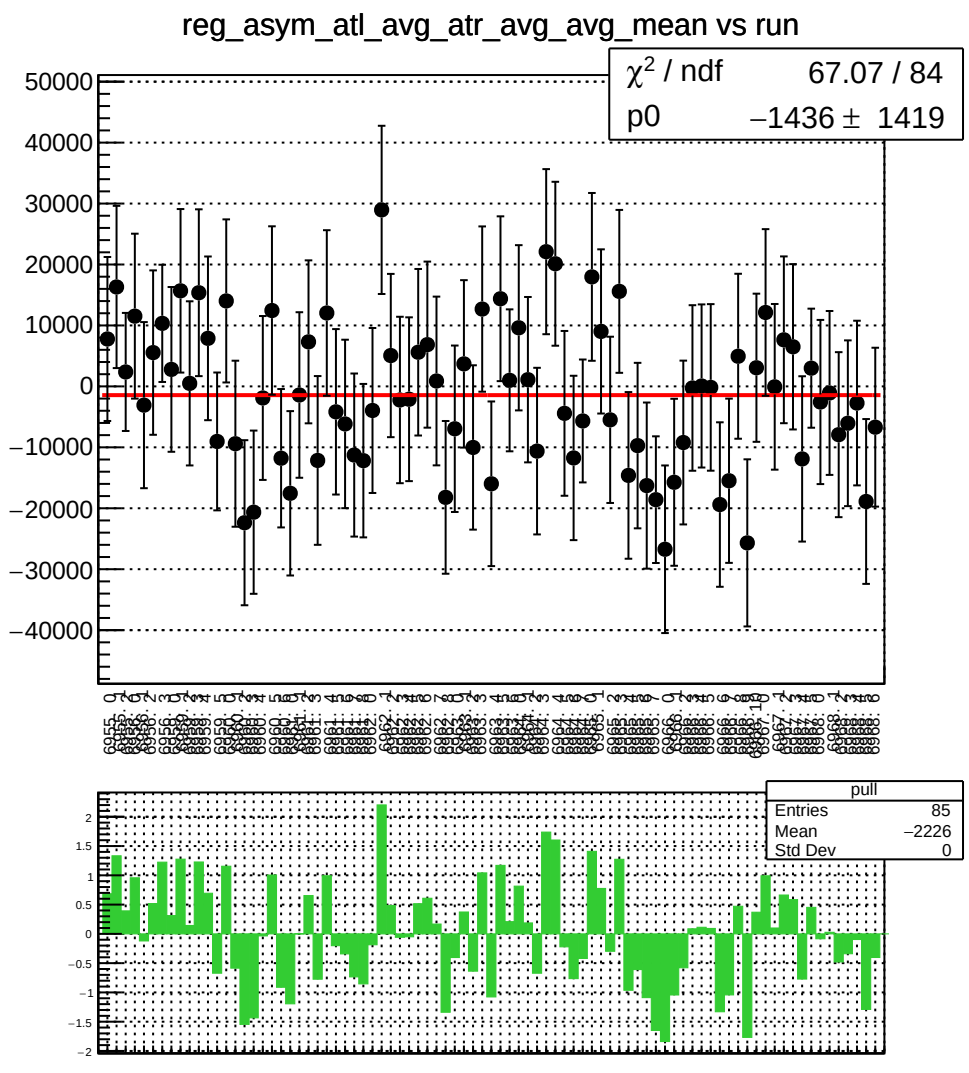

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.46 / 84
p0 0.4157 ± 0.3912
pull
Entries 85
Mean 150.7
Std Dev 0
pull1D
Entries 85
Mean 0.01363
Std Dev 1.003

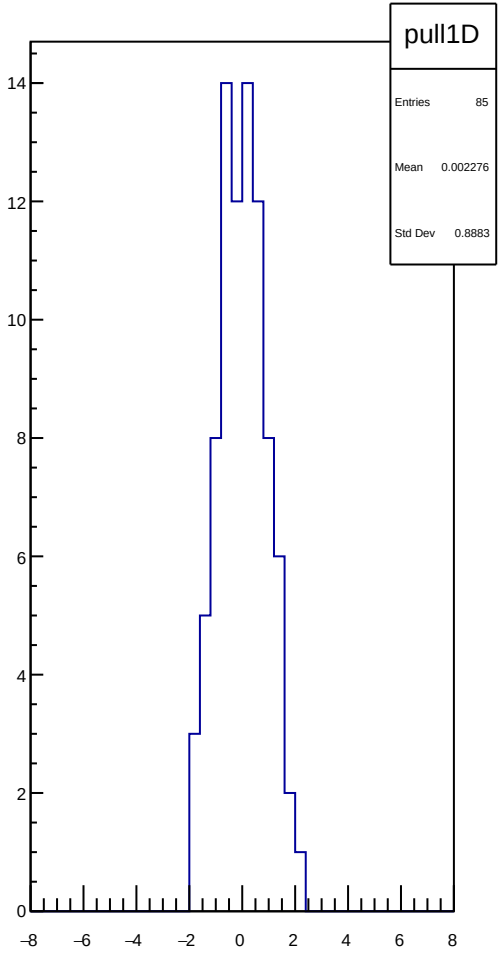

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 84
p0 353.3 ± 0.2766
440
420
400
380
360
340
320
300

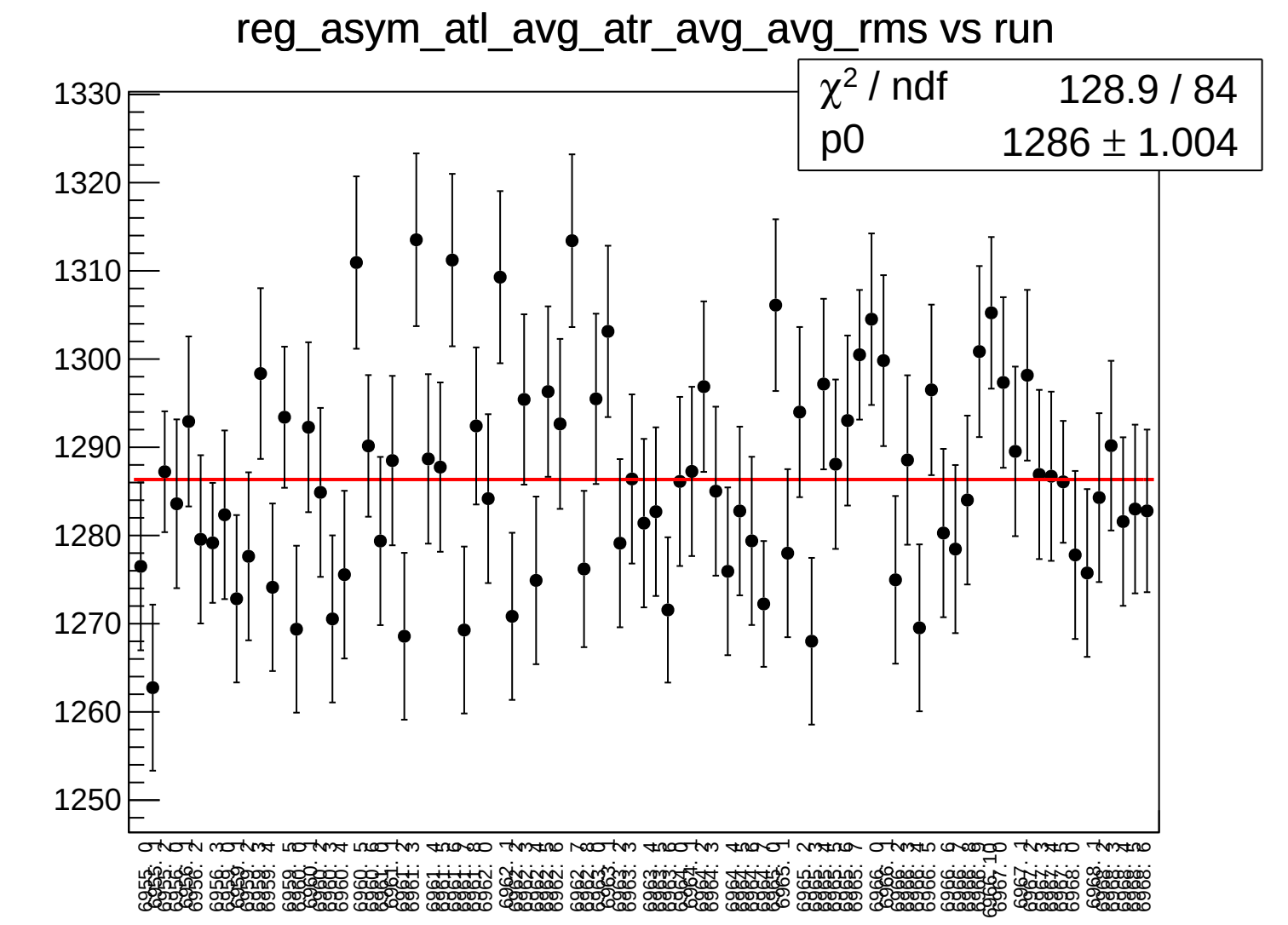

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.81 / 84
p0 −1.265e−13 ± 1.214e−13
pull
Entries 85
Mean −252.2
Std Dev 0

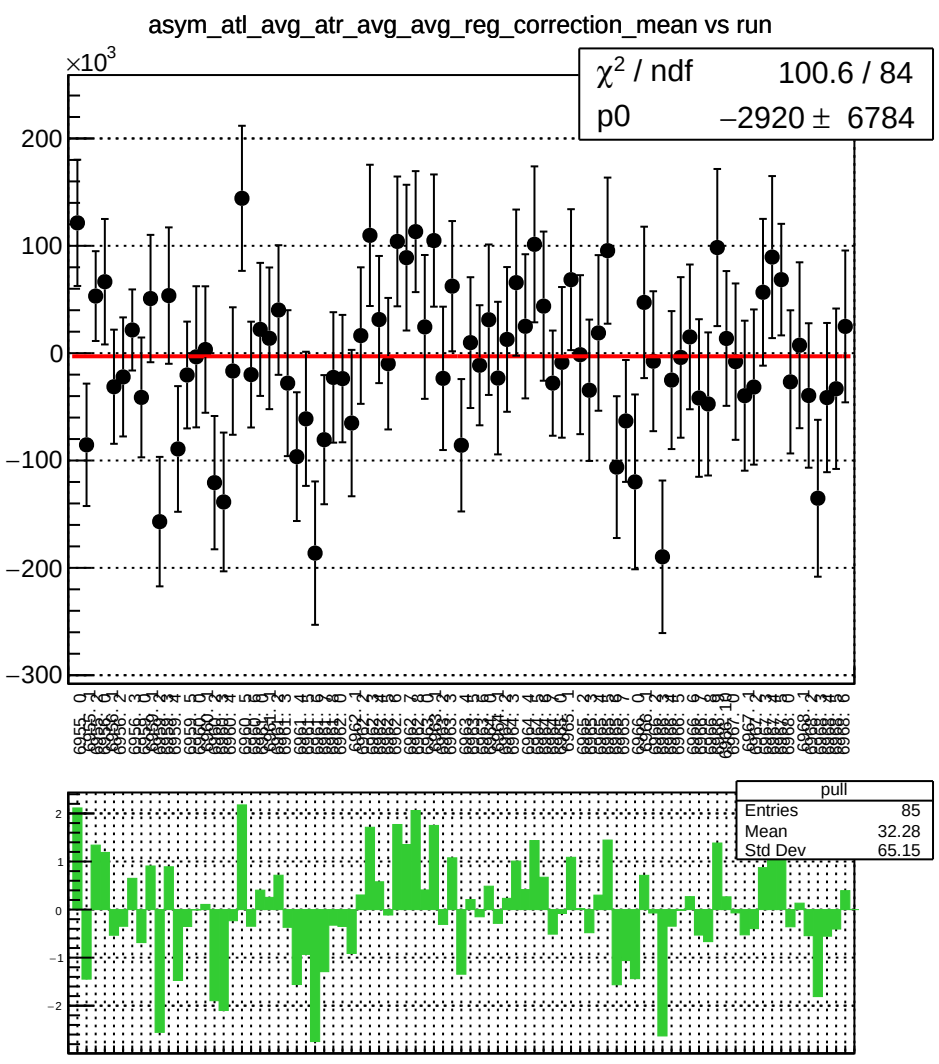

pull1D
Entries 85
Mean −0.004705
Std Dev 0.9127

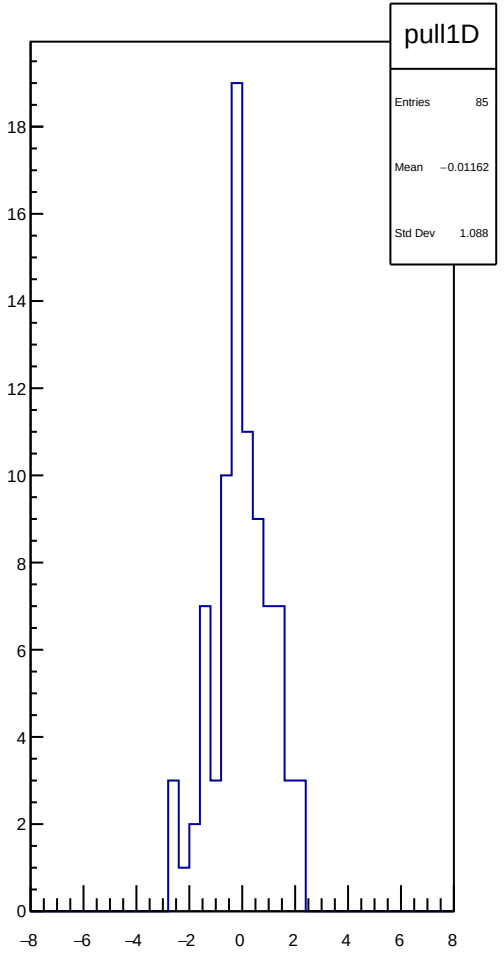

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.07e+05 / 84
p0 9.546e−11 ± 8.587e−14
0.6
0.5
0.4
0.3
0.2
0.1

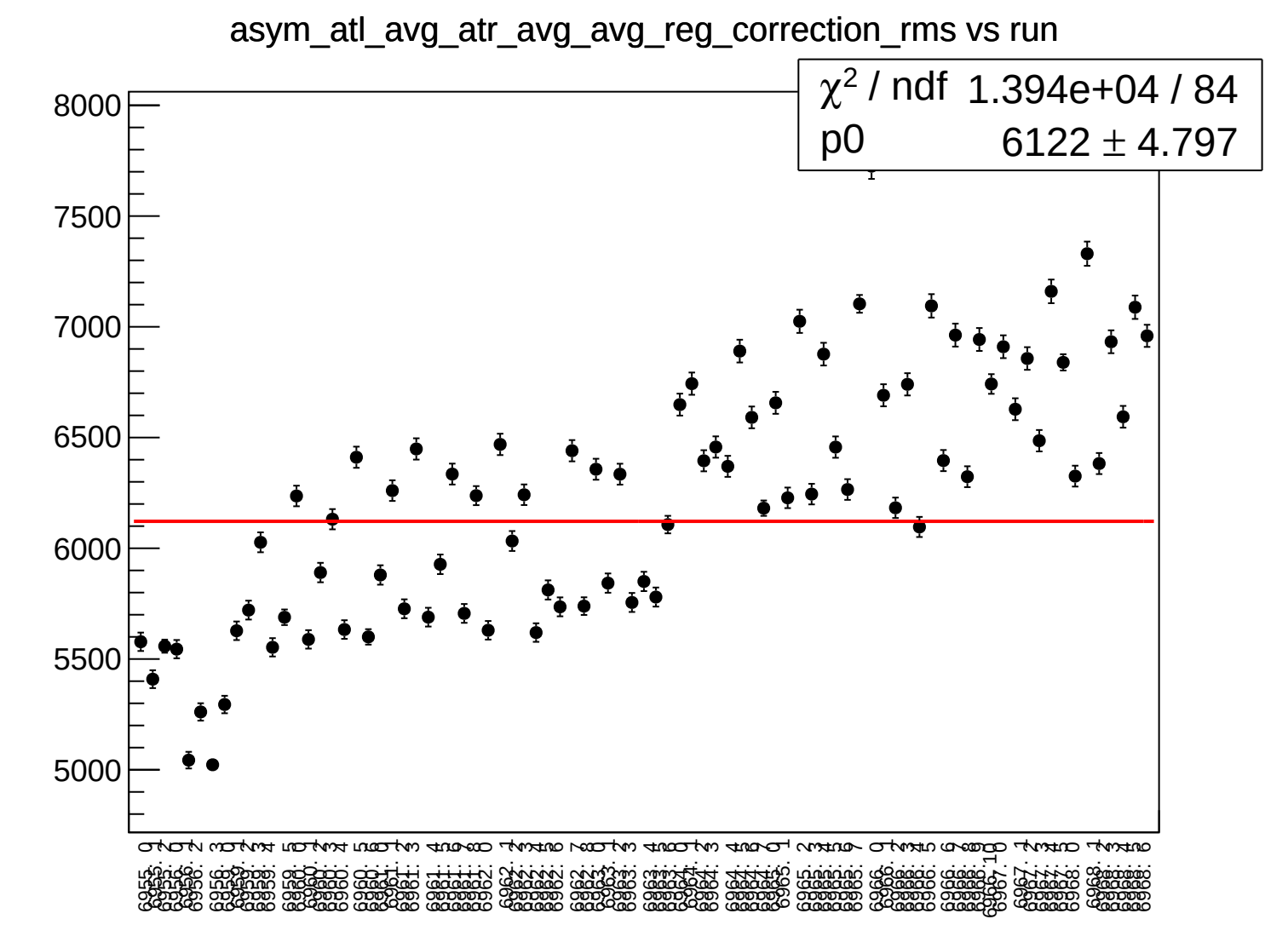

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 67.07 / 84
p0 −1436 ± 1419
pull
Entries 85
Mean −2226
Std Dev 0

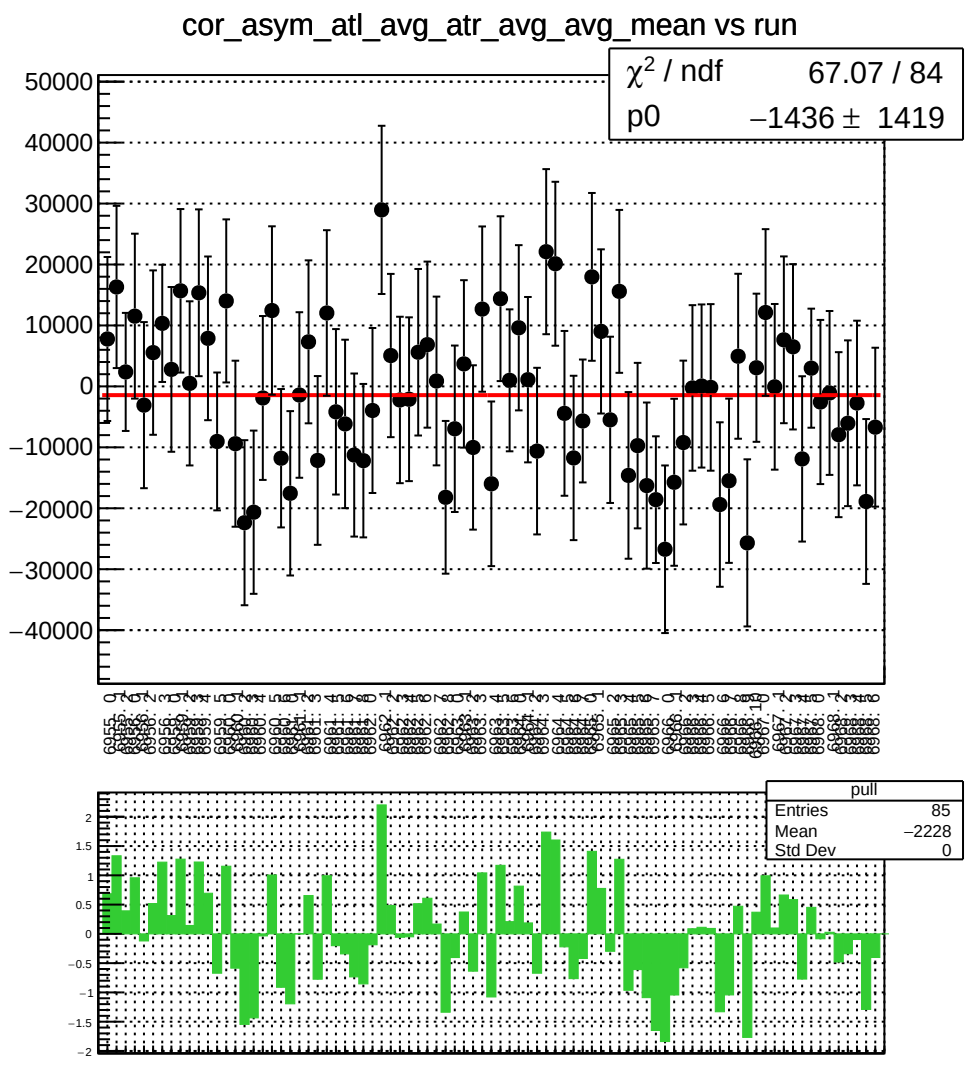

pull1D
Entries 85
Mean 0.002276
Std Dev 0.8883

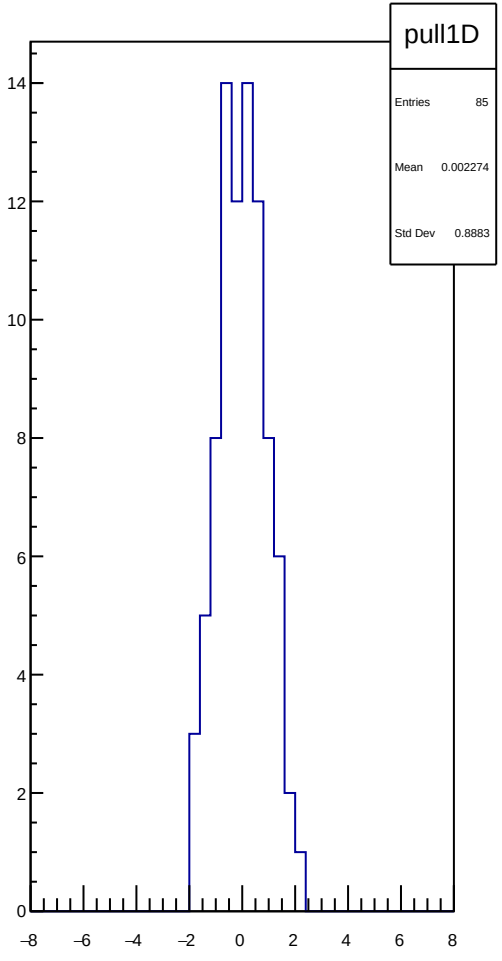

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 128.9 / 84
p0 1286 ± 1.004
1330
1320
1310
1300
1290
1280
1270
1260
1250

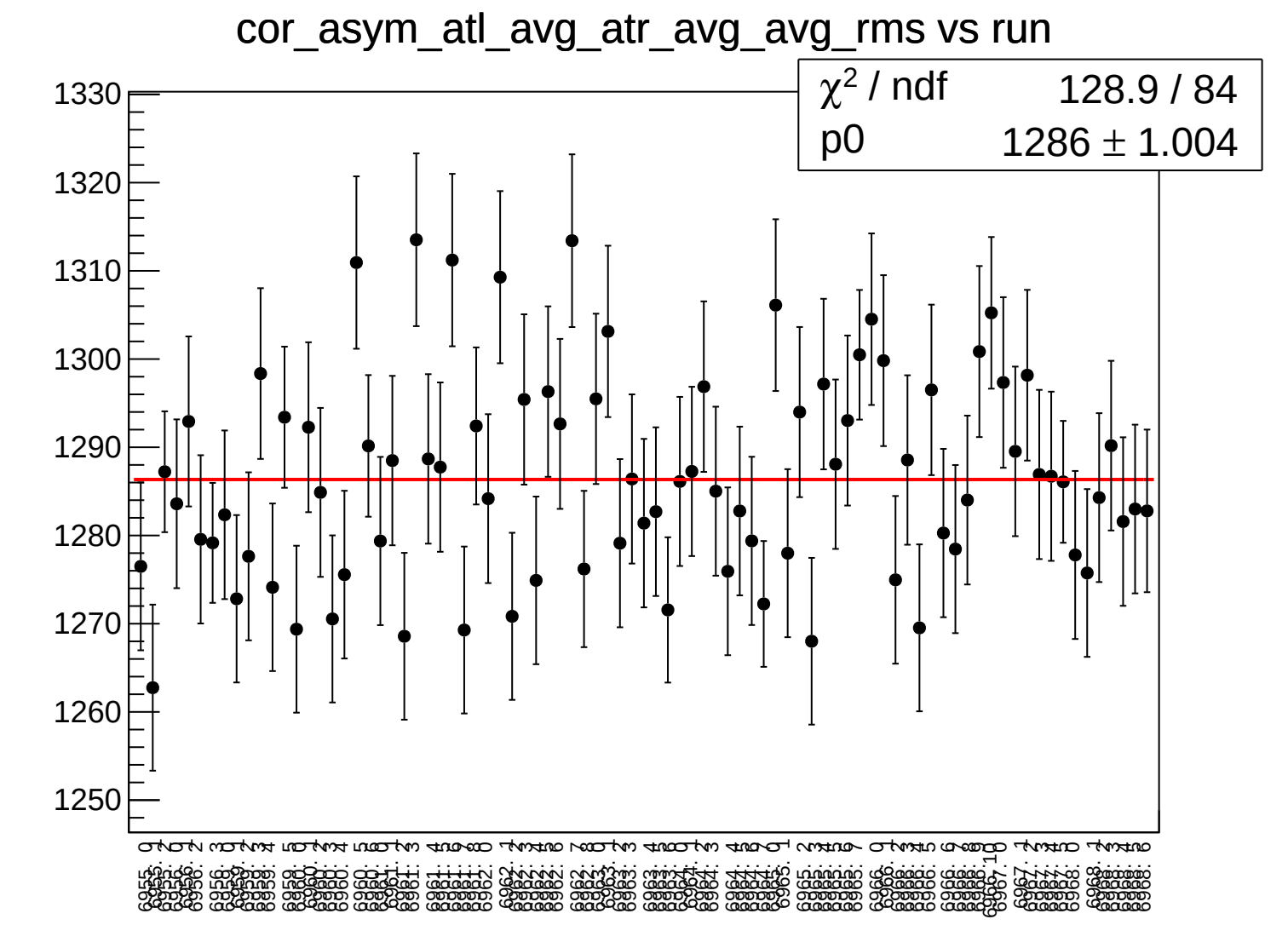

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.6 / 84
p0 −2920 ± 6784
200
100
0
−100
−200
−300
pull
Entries 85
Mean 32.28
Std Dev 65.15
2
1
0
−1
−2

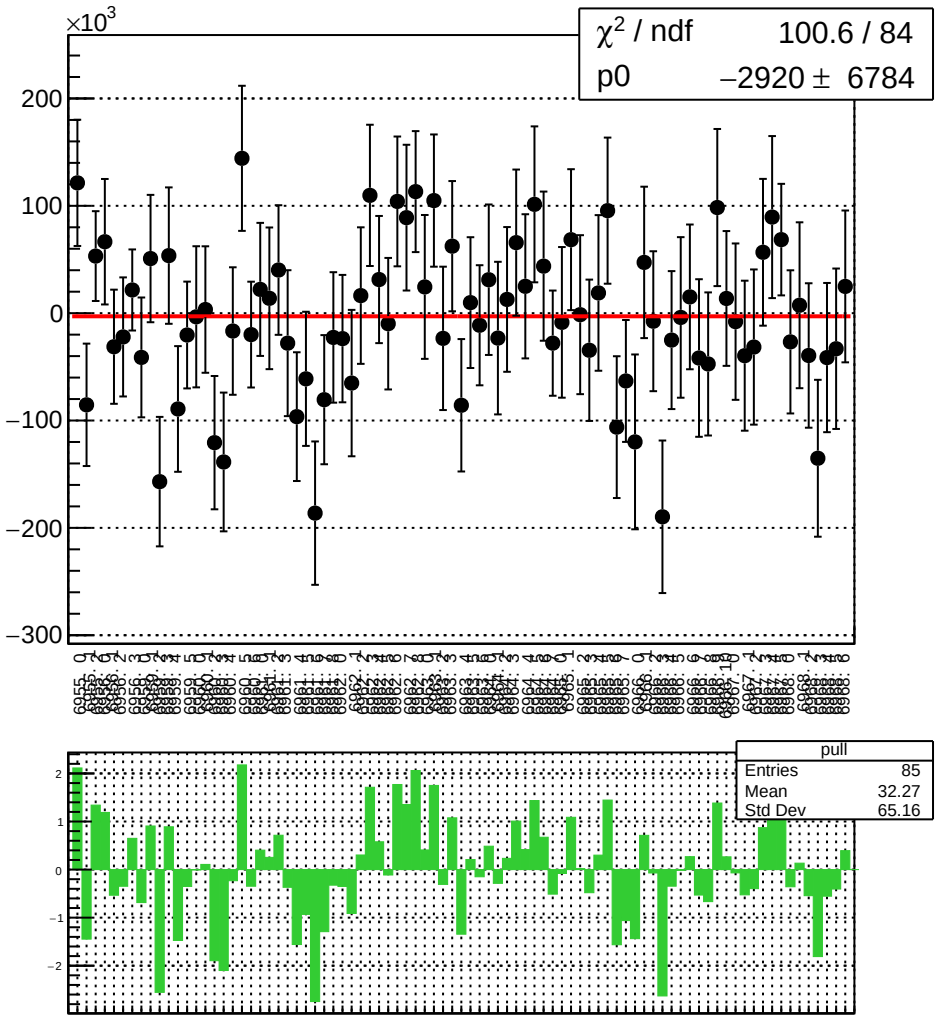

pull1D
Entries 85
Mean −0.01162
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

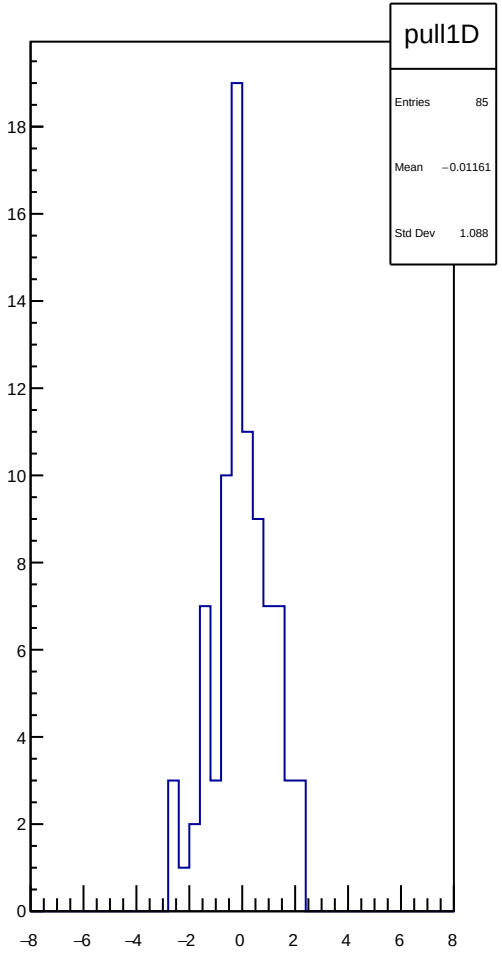

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.394e+04 / 84
p0 6122 ± 4.797
8000
7500
7000
6500
6000
5500
5000

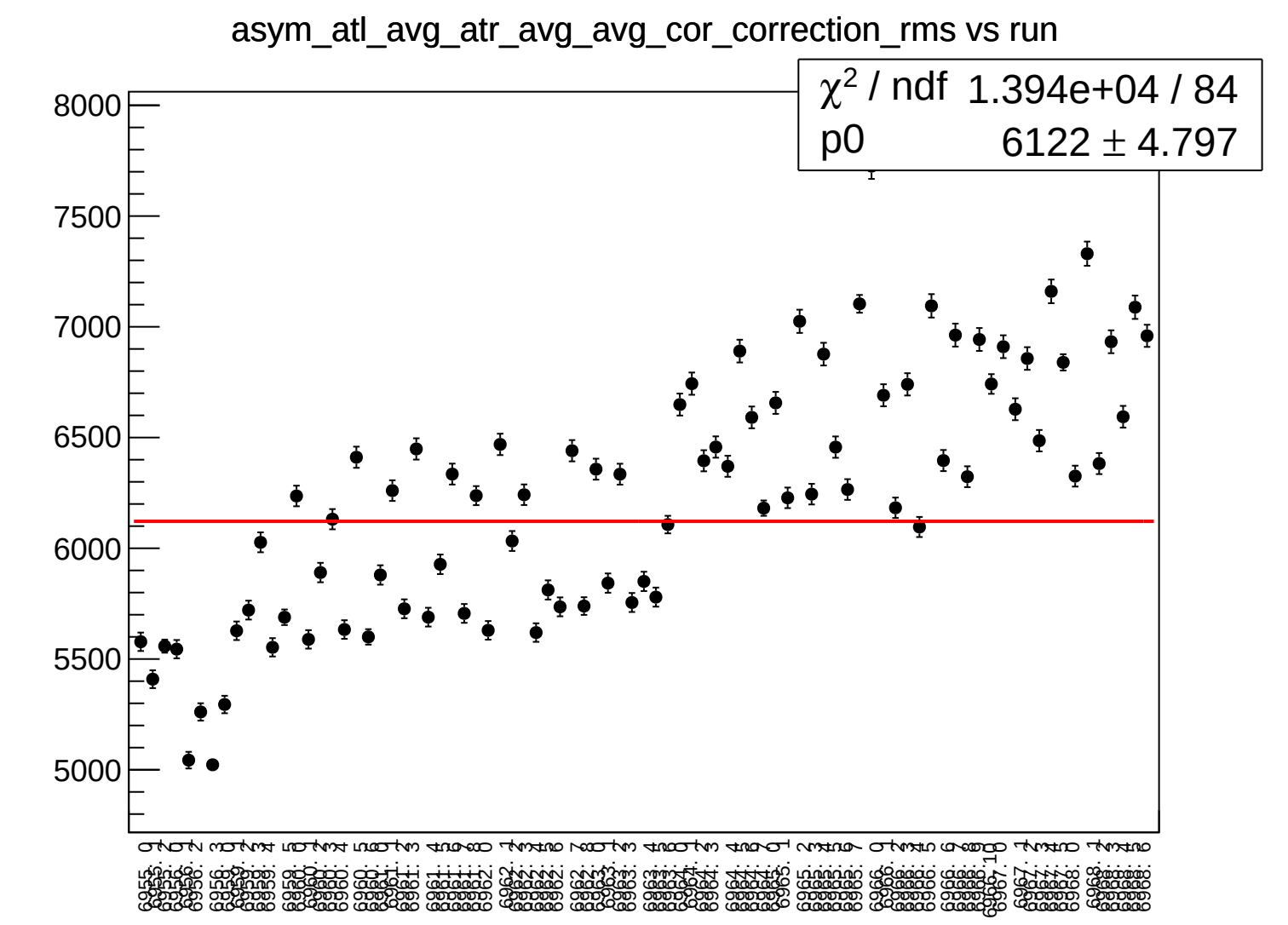

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 67.07 / 84
p0 −1436 ± 1419
pull
Entries 85
Mean −2228
Std Dev 0

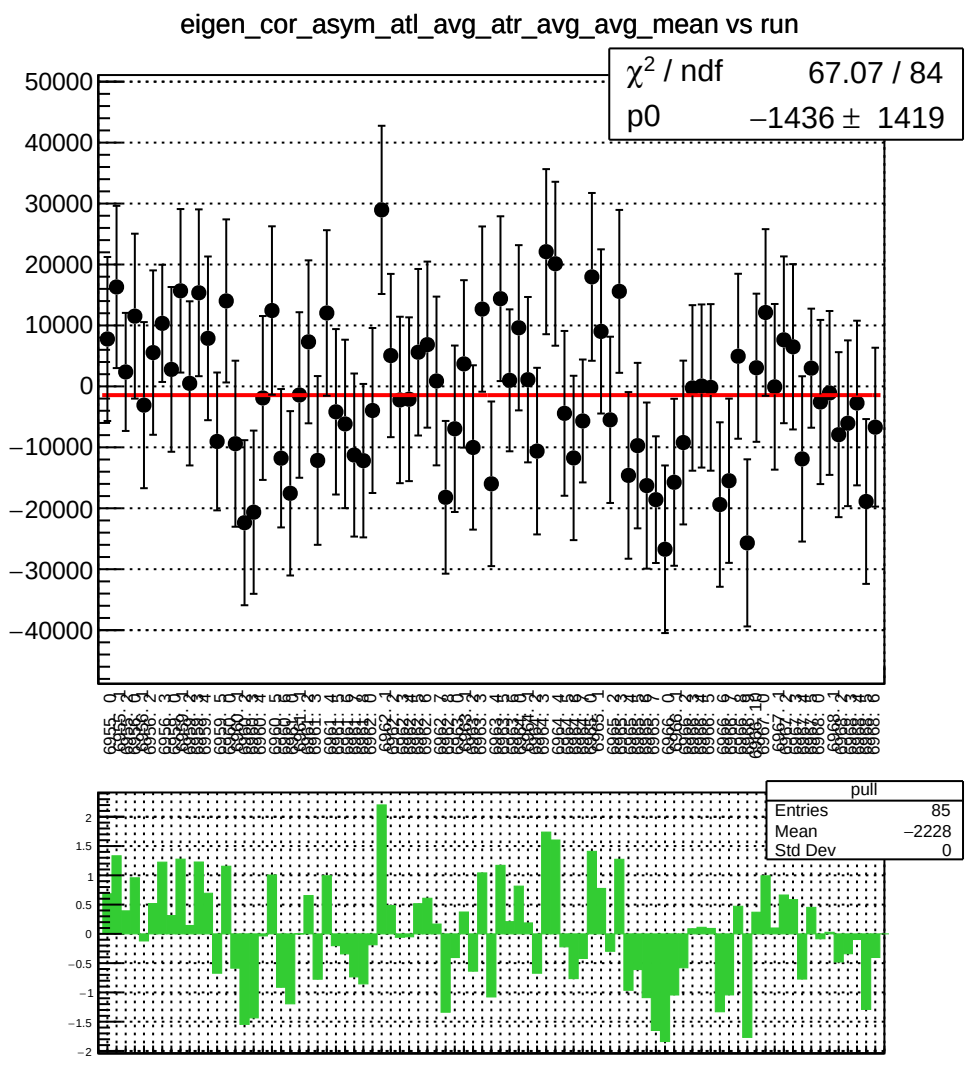

pull1D
Entries 85
Mean 0.002274
Std Dev 0.8883

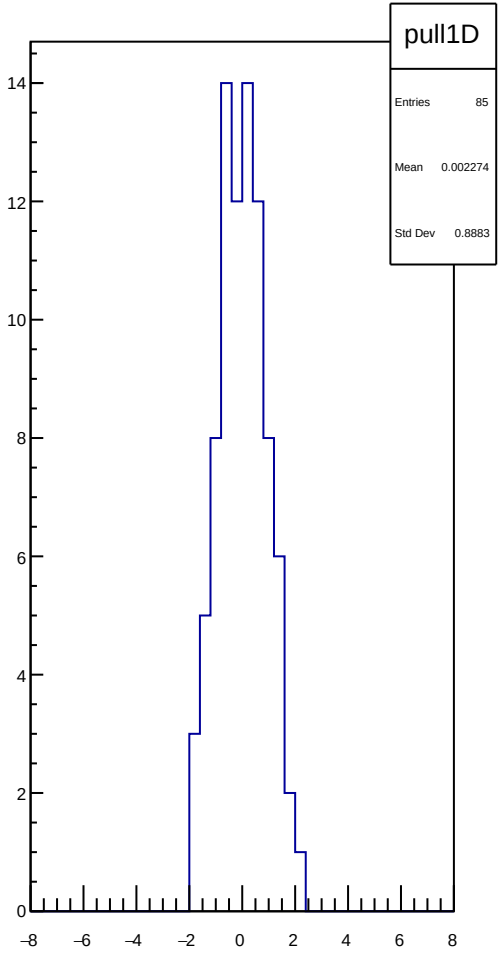

cor_asym_atl_avg_atr_avg_avg_rms vs run
$\chi^2$ / ndf 128.9 / 84
p0 1286 ± 1.004
1330
1320
1310
1300
1290
1280
1270
1260
1250

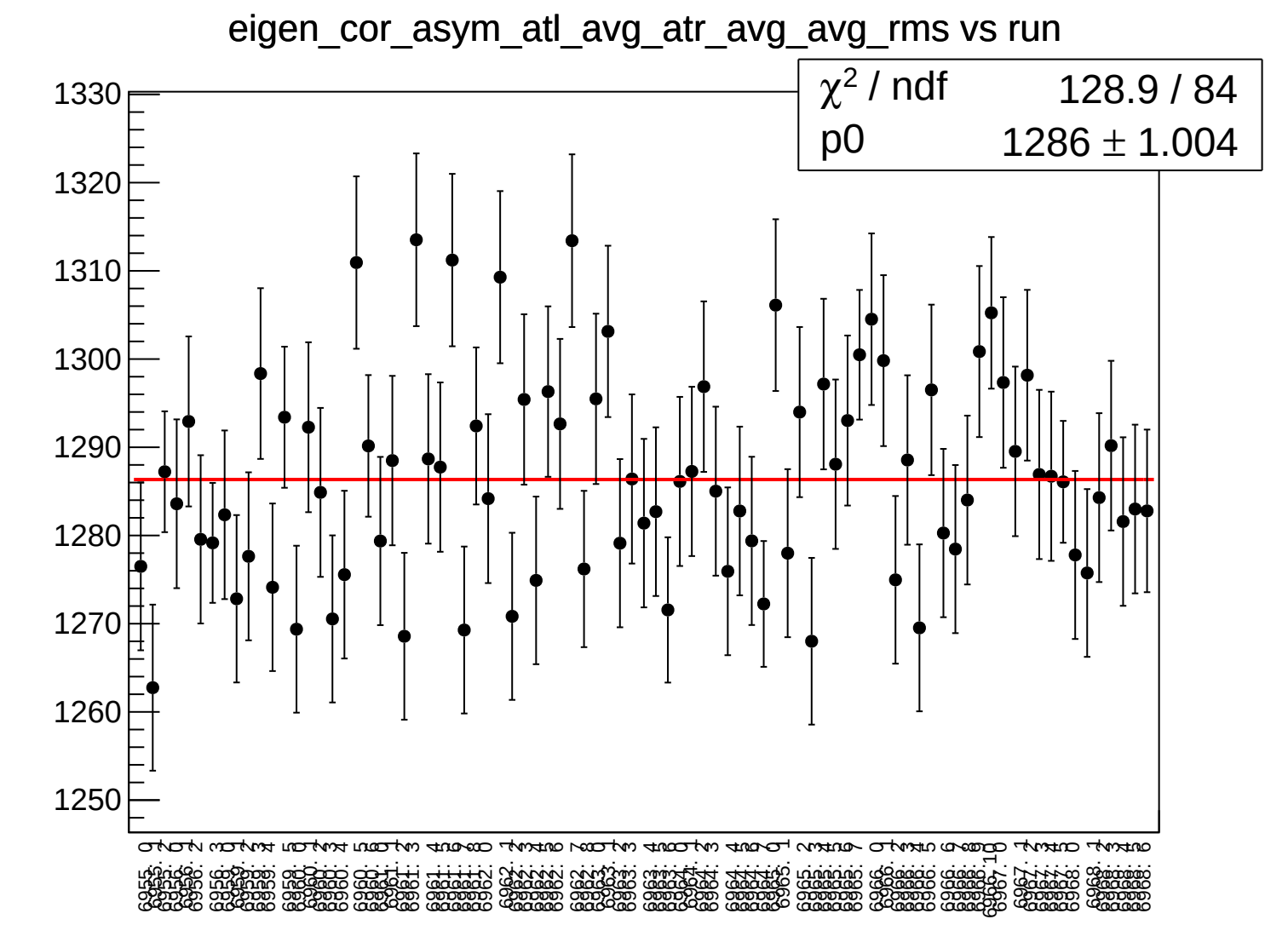

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.6 / 84
p0 −2920 ± 6784
200
100
0
−100
−200
−300
pull
Entries 85
Mean 32.27
Std Dev 65.16
2
1
0
−1
−2

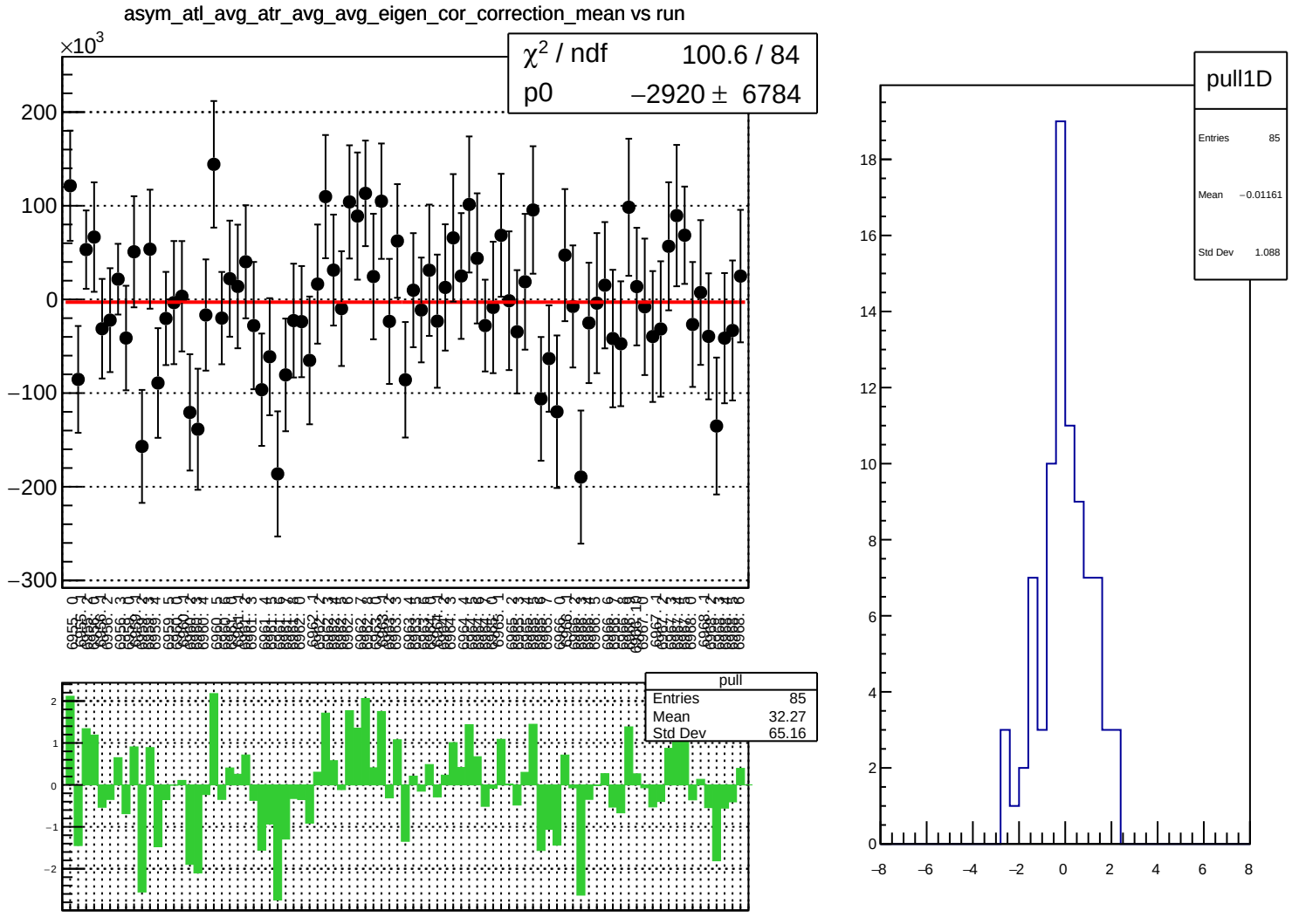

pull1D
Entries 85
Mean −0.01161
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

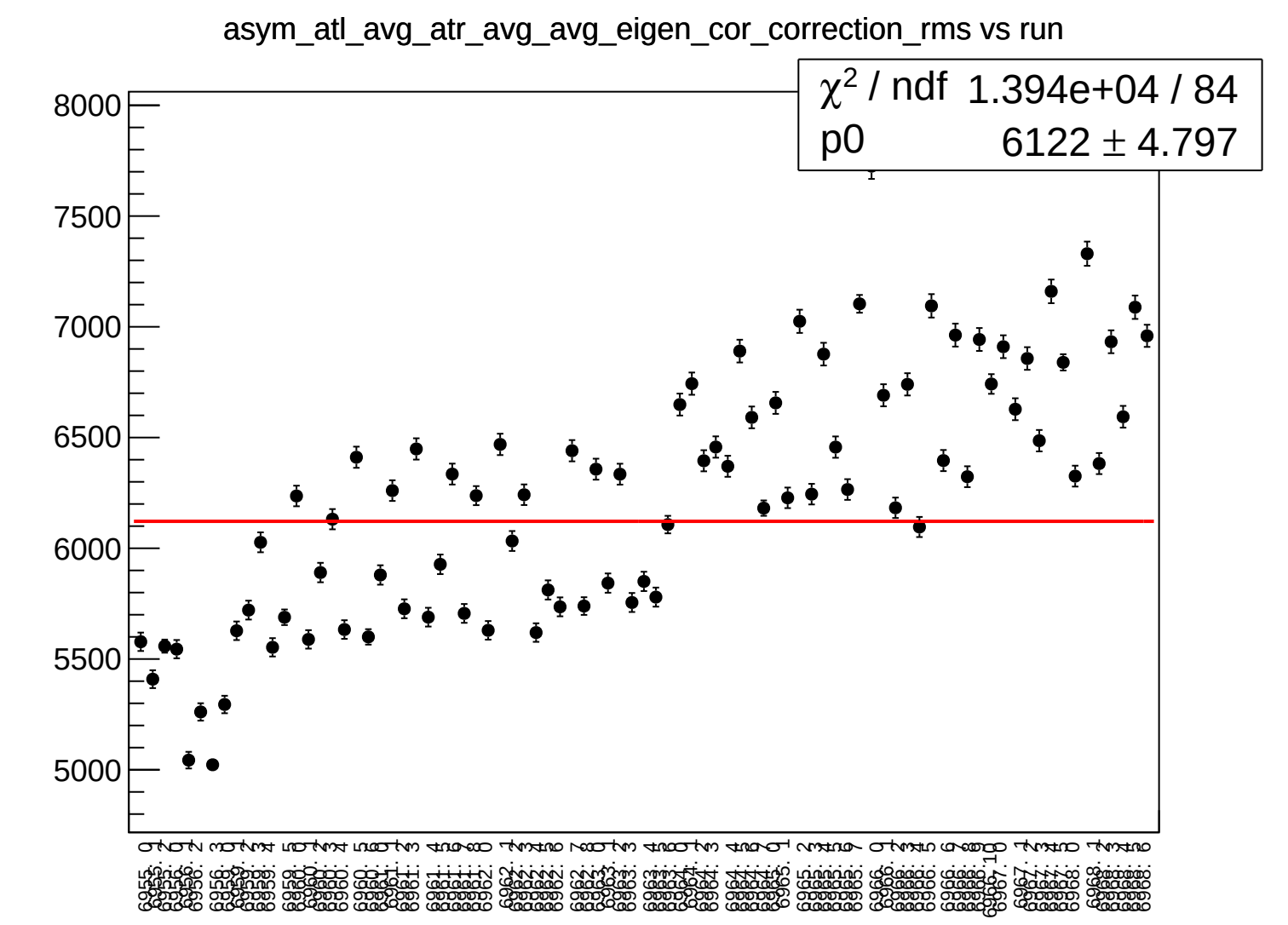

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.394e+04 / 84
p0 6122 ± 4.797
8000
7500
7000
6500
6000
5500
5000

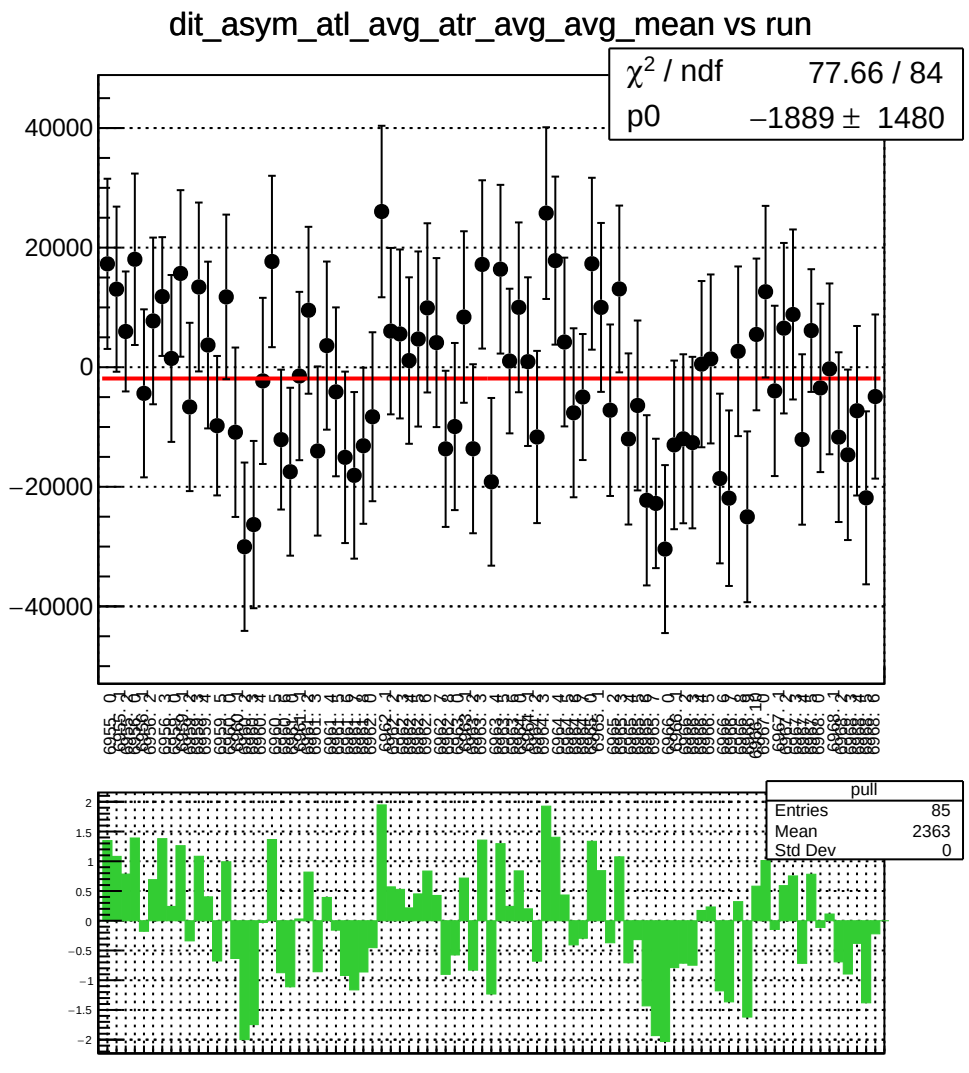

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 67.07 / 84
p0 −1436 ± 1419
pull
Entries 85
Mean −2228
Std Dev 0

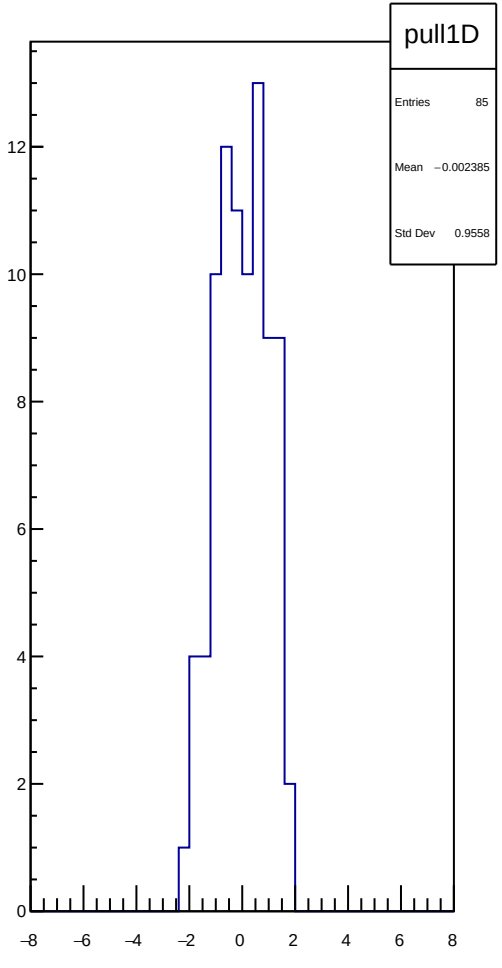

pull1D
Entries 85
Mean 0.002274
Std Dev 0.8883

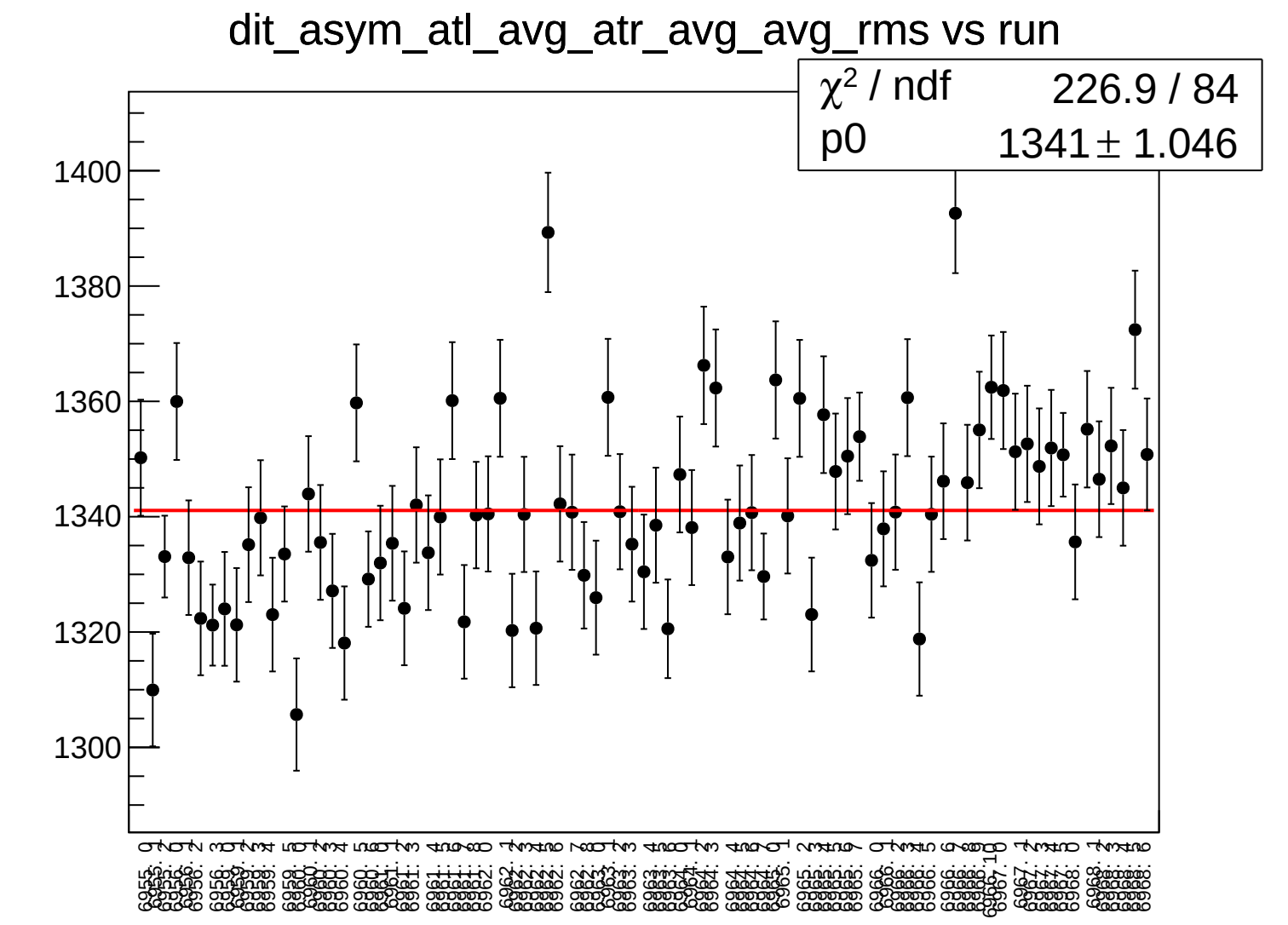

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 128.9 / 84
p0 1286 ± 1.004
1330
1320
1310
1300
1290
1280
1270
1260
1250

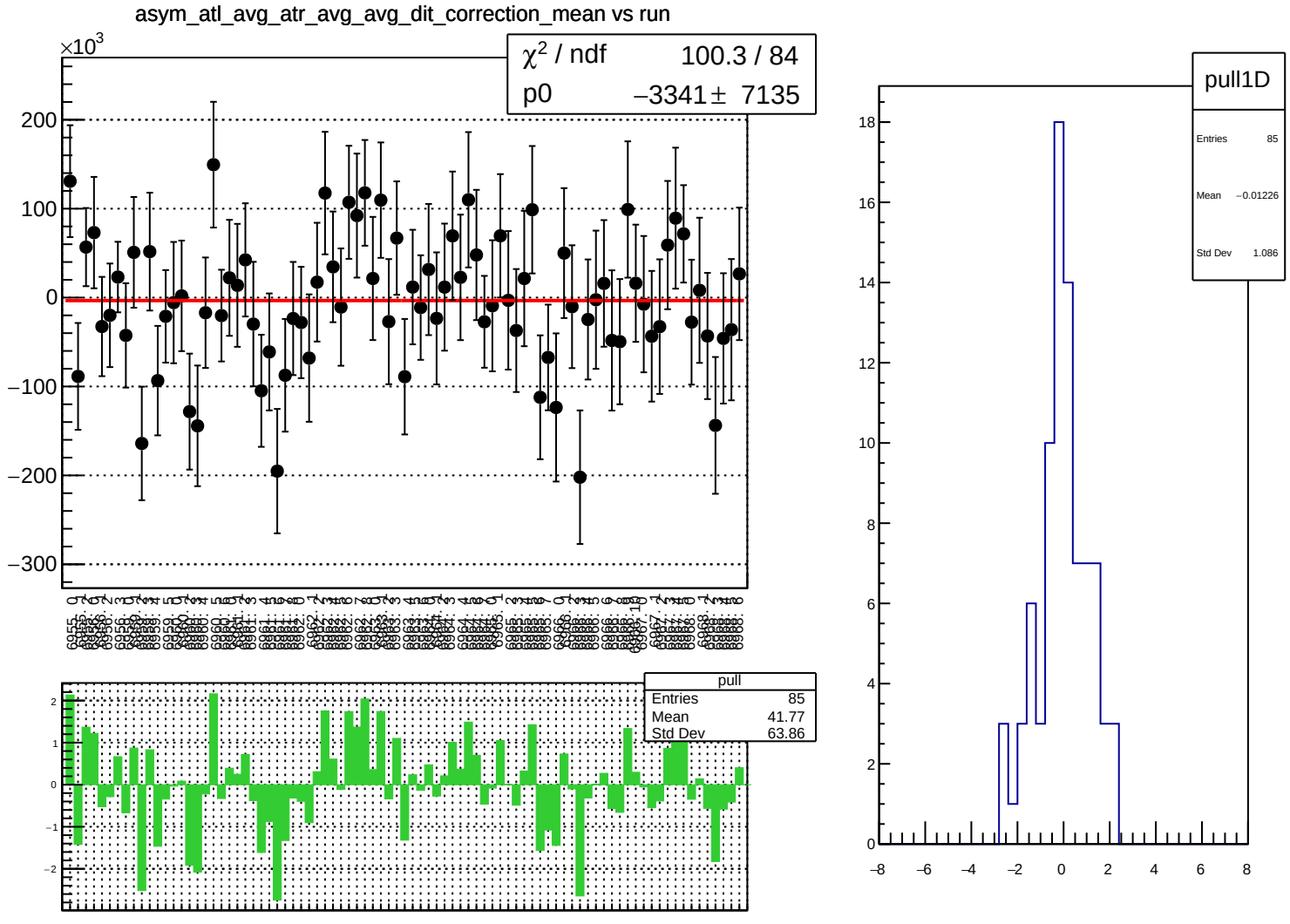

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.6 / 84
p0 −2920 ± 6784
200
100
0
−100
−200
−300
pull
Entries 85
Mean 32.27
Std Dev 65.16
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01161
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

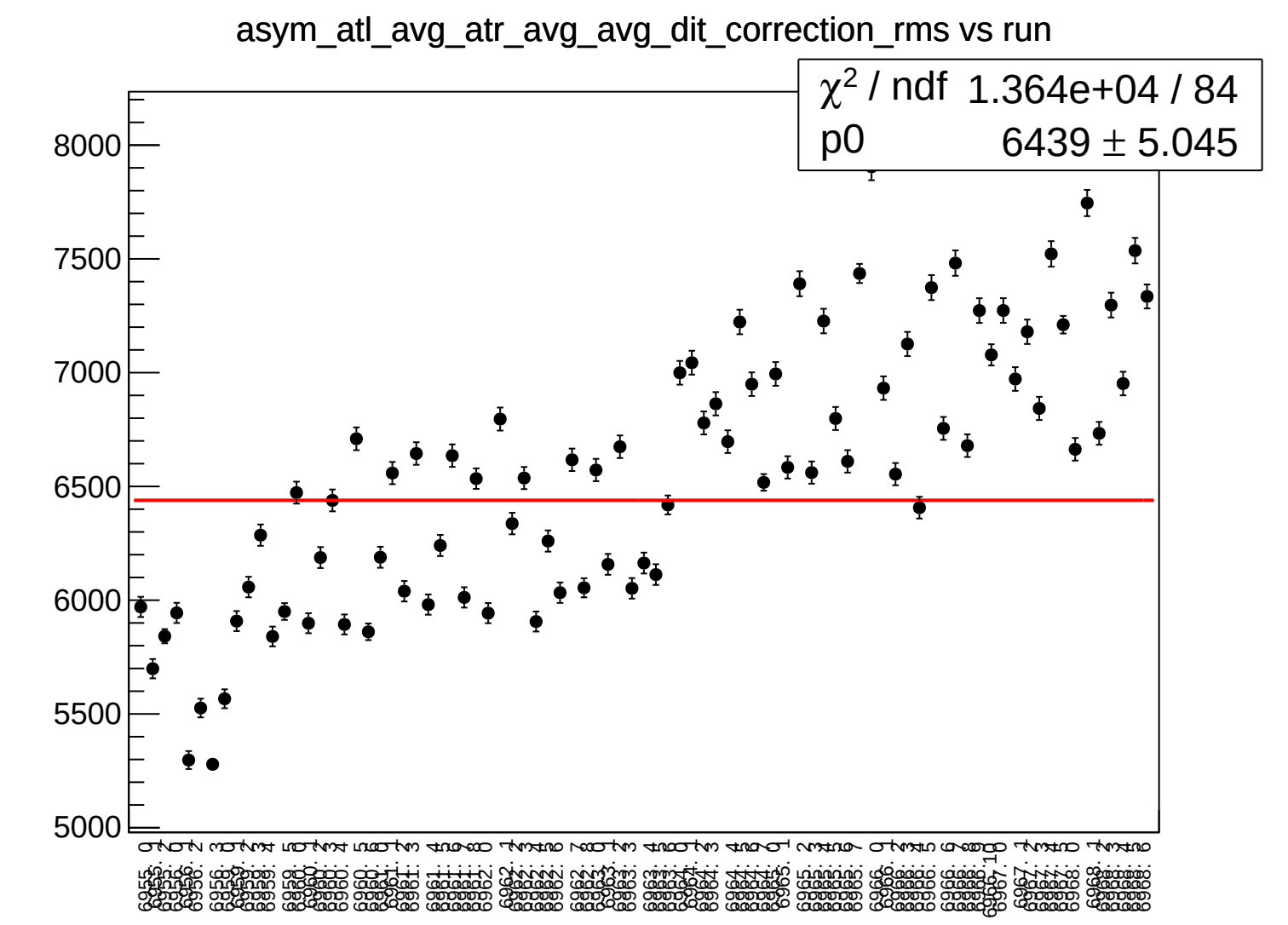

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.394e+04 / 84
p0 6122 ± 4.797
8000
7500
7000
6500
6000
5500
5000

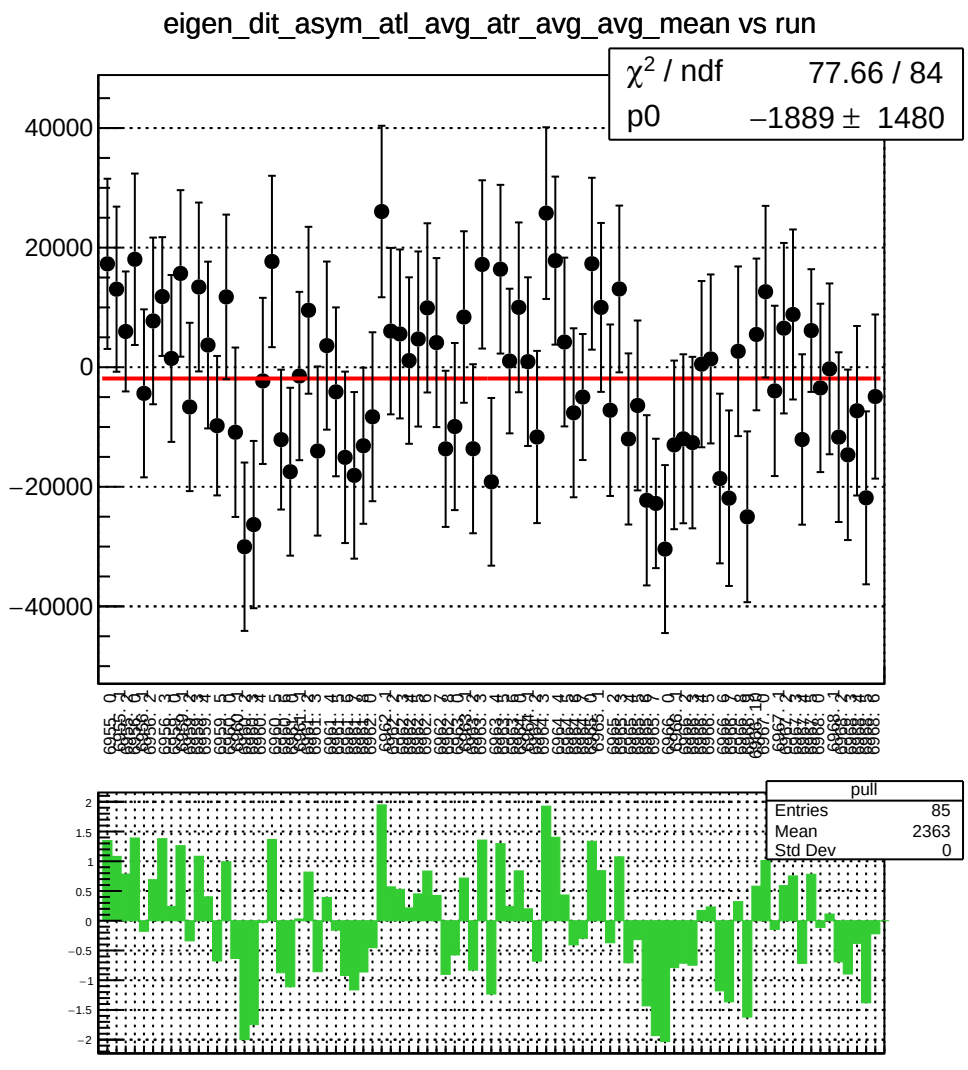

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 77.66 / 84
p0 −1889 ± 1480
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 2363
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

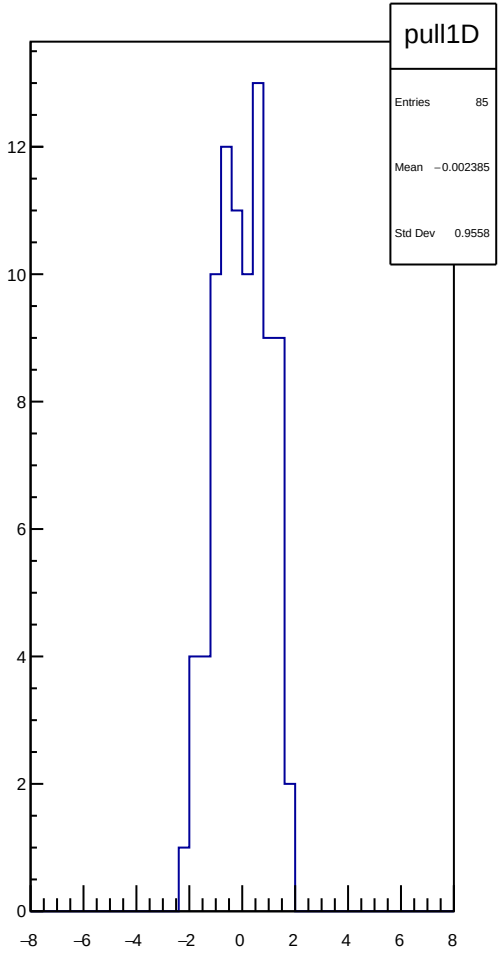

pull1D
Entries 85
Mean −0.002385
Std Dev 0.9558
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

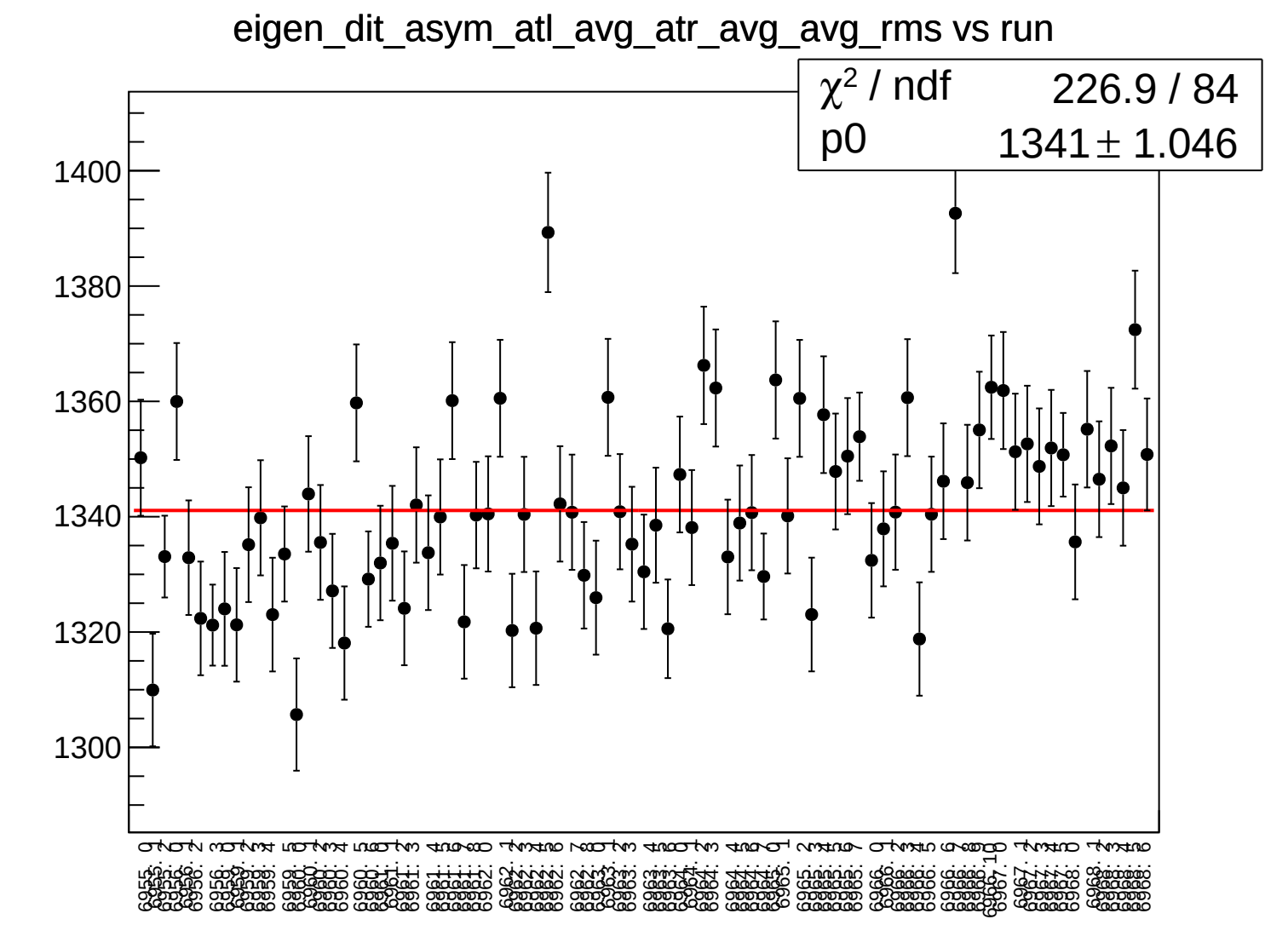

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 226.9 / 84
p0 1341 ± 1.046
1400
1380
1360
1340
1320
1300

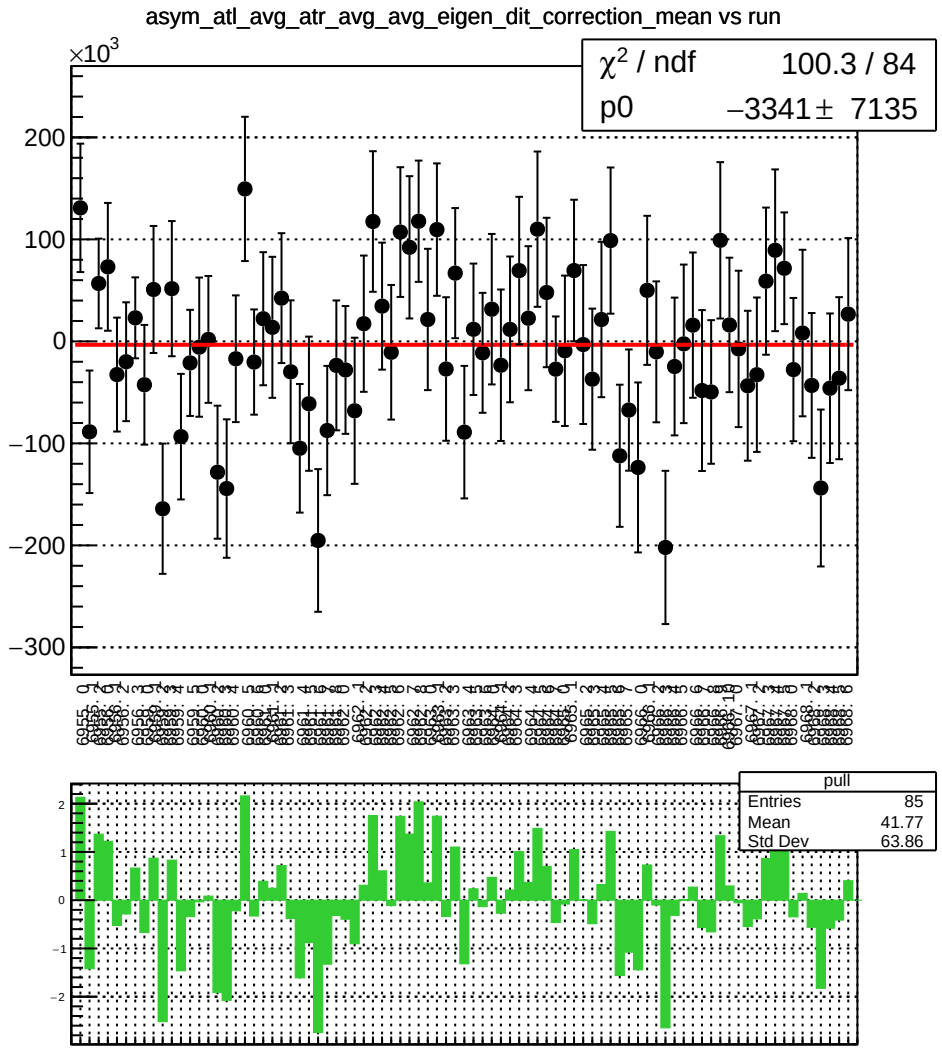

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 100.3 / 84
p0 −3341 ± 7135
200
100
0
−100
−200
−300
pull
Entries 85
Mean 41.77
Std Dev 63.86
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01226
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

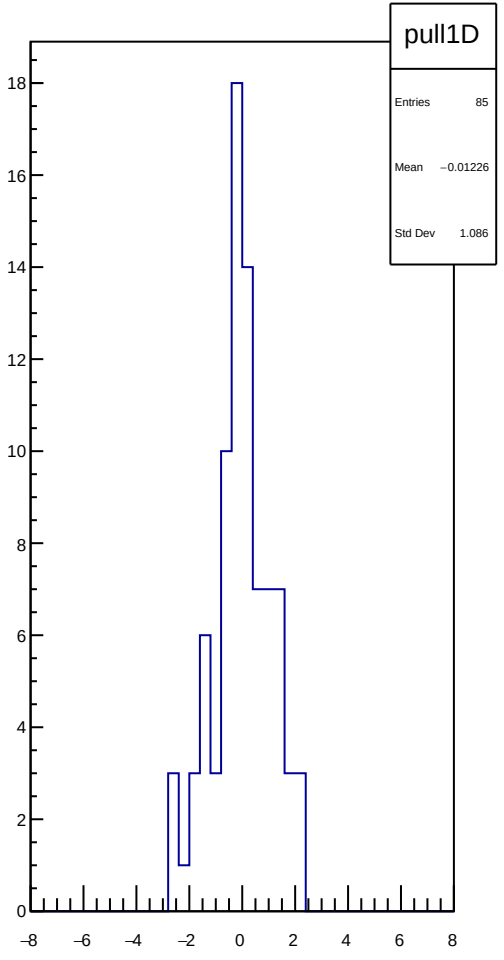

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.364e+04 / 84
p0 6439 ± 5.045
8000
7500
7000
6500
6000
5500
5000

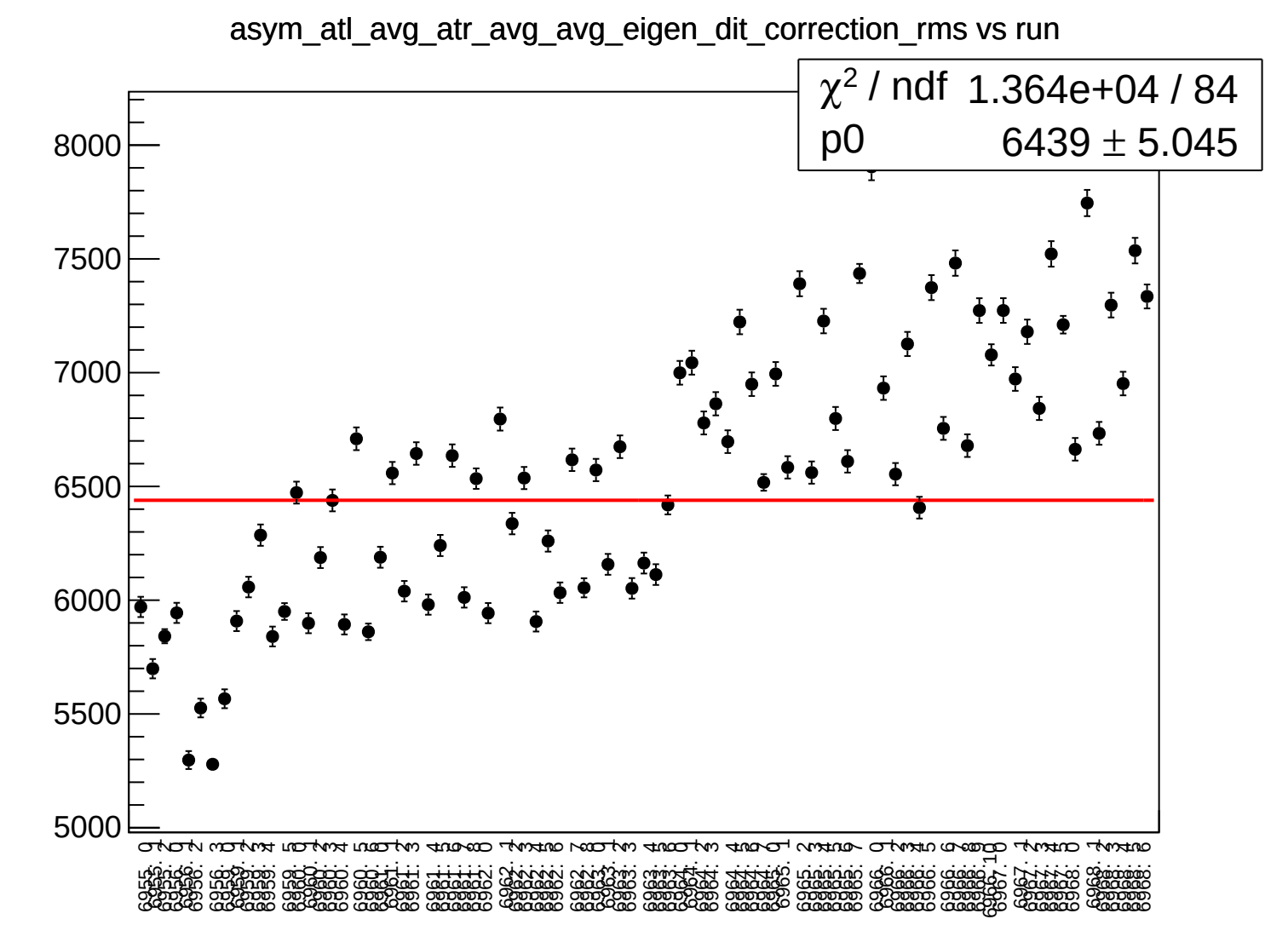

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 77.66 / 84
p0 −1889 ± 1480
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 2363
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

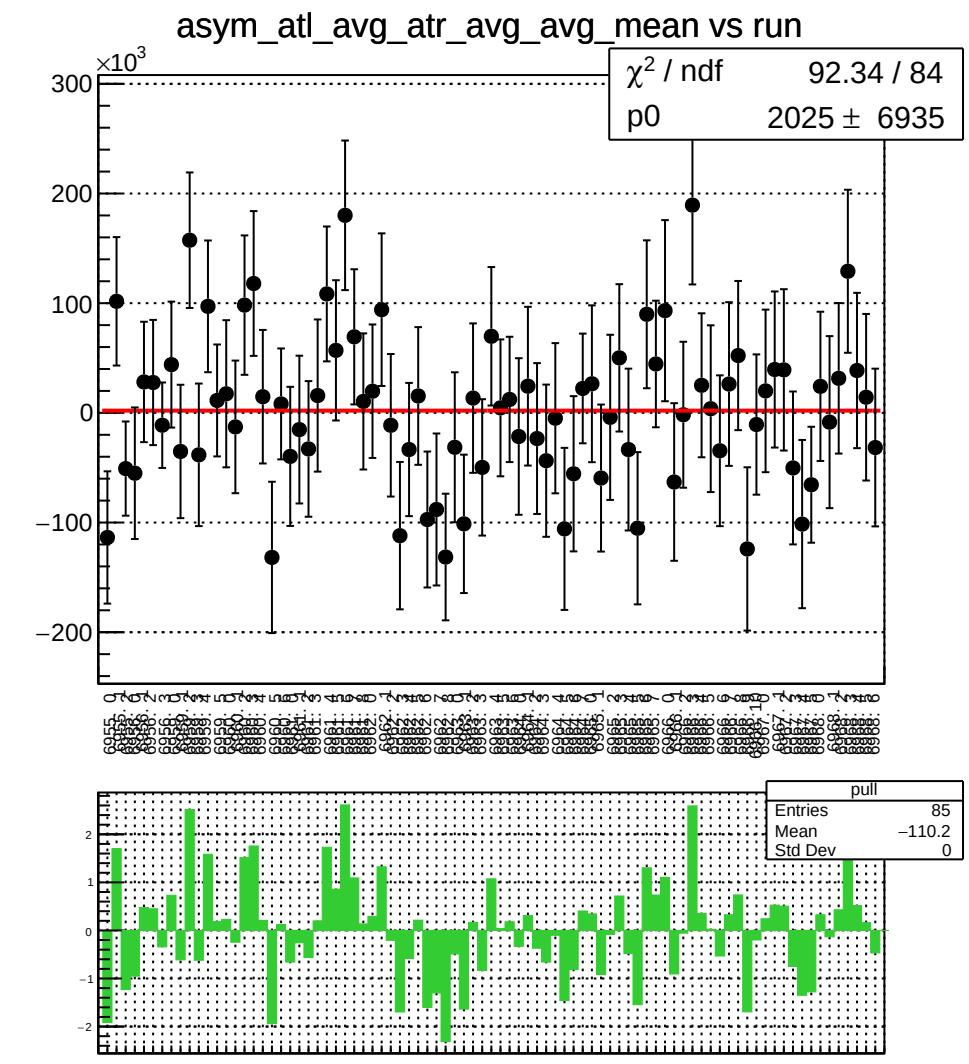

pull1D
Entries 85
Mean −0.002385
Std Dev 0.9558
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

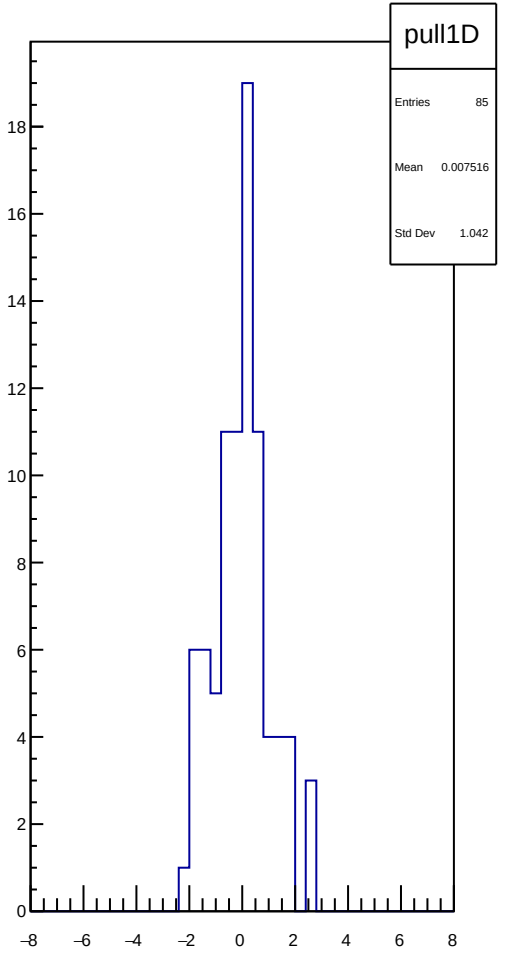

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 226.9 / 84
p0 1341 ± 1.046
1400
1380
1360
1340
1320
1300

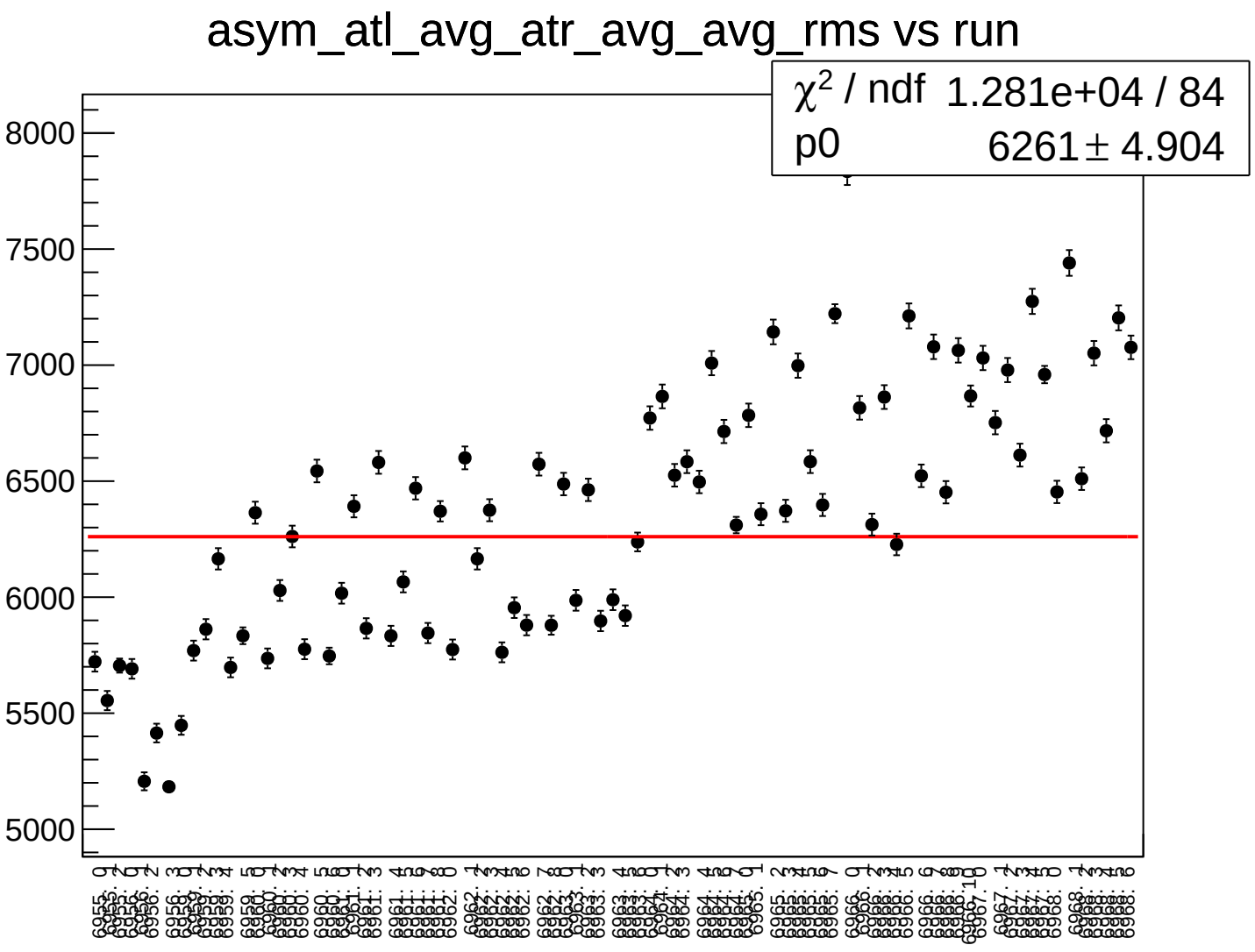

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.3 / 84
p0 −3341 ± 7135
200
100
0
−100
−200
−300
pull
Entries 85
Mean 41.77
Std Dev 63.86
2
1
0
−1
−2

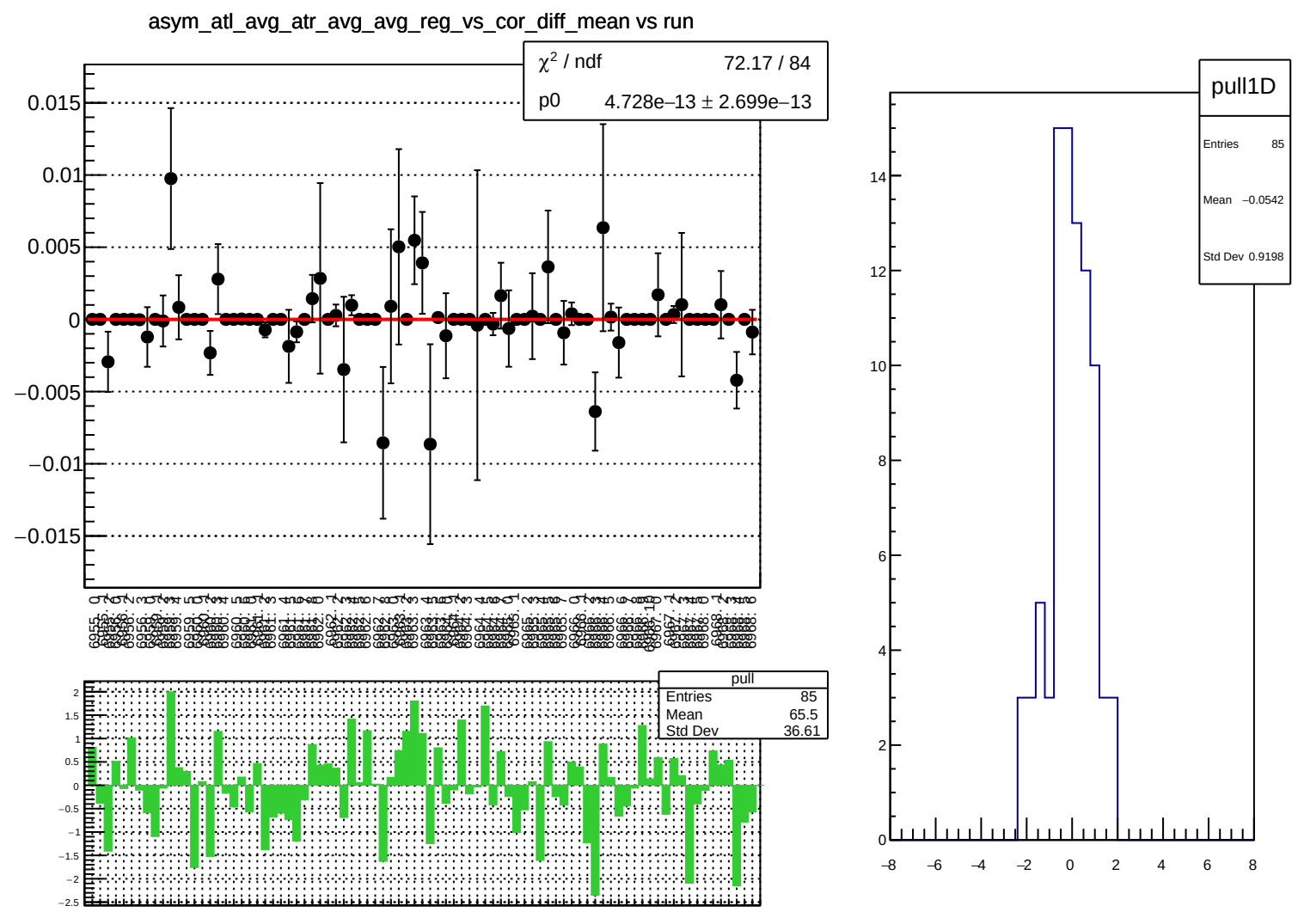

pull1D
Entries 85
Mean −0.01226
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

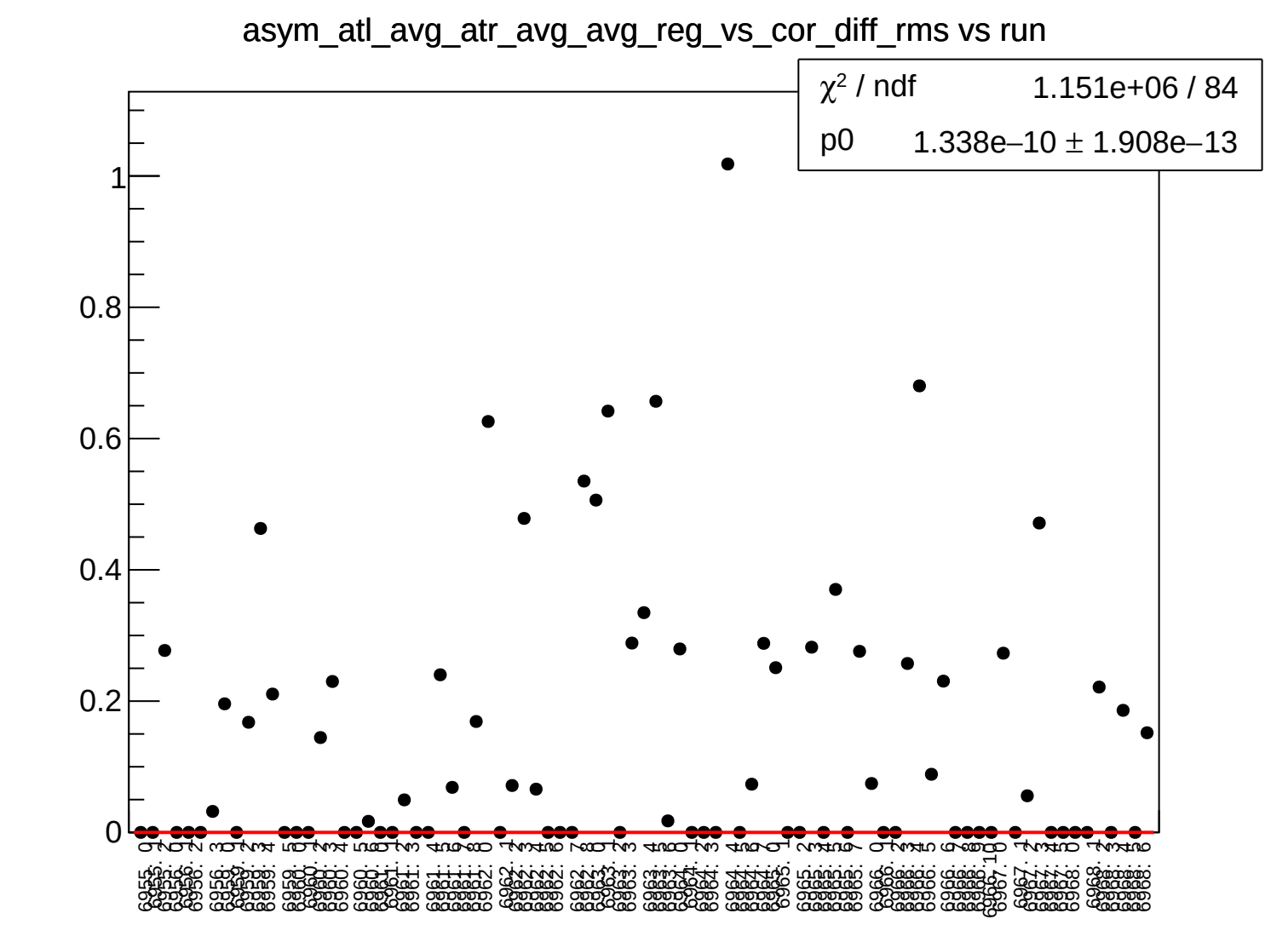

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.364e+04 / 84
p0 6439 ± 5.045
8000
7500
7000
6500
6000
5500
5000

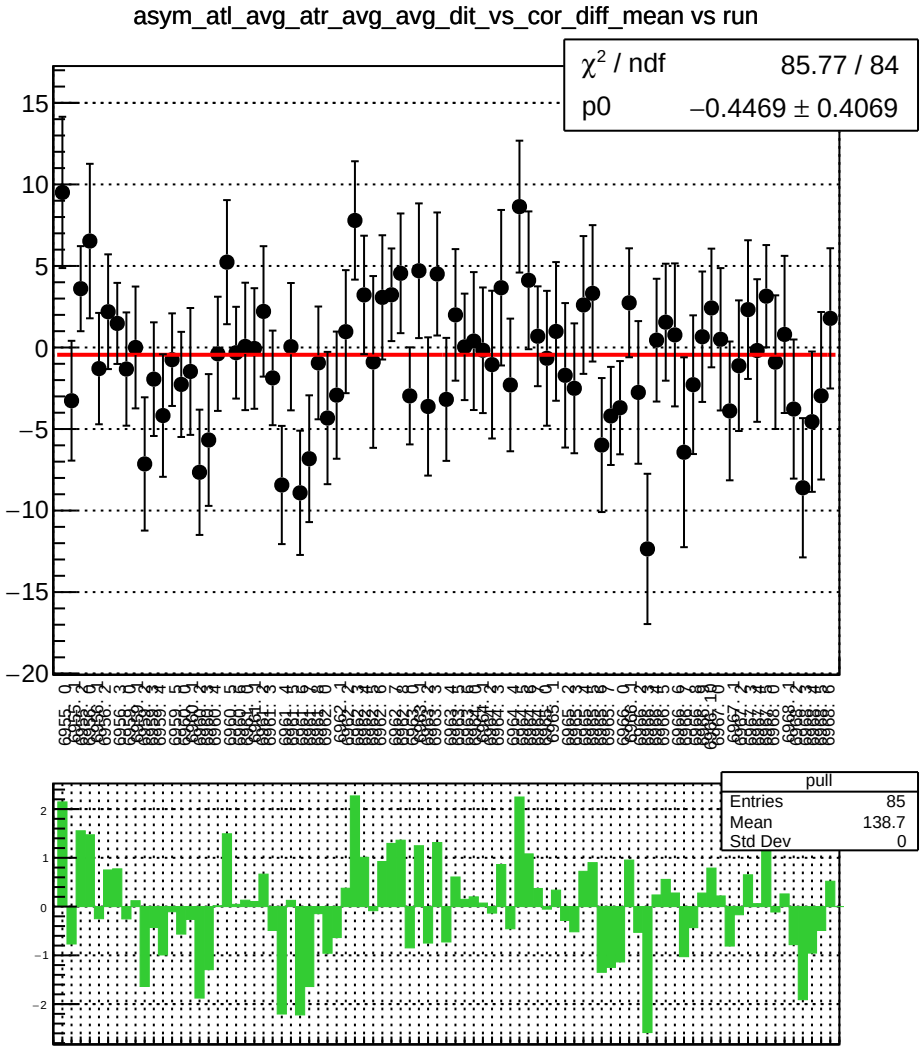

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 92.34 / 84
p0 2025 ± 6935
pull
Entries 85
Mean −110.2
Std Dev 0

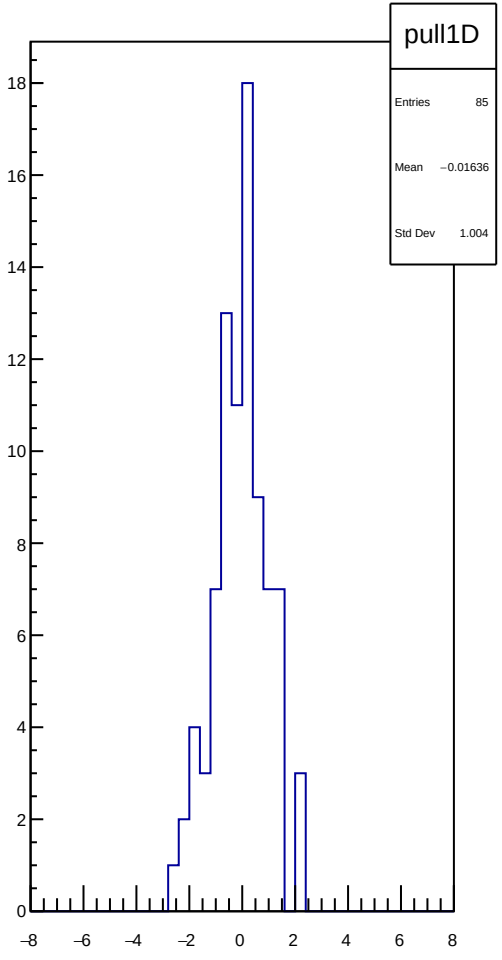

pull1D
Entries 85
Mean 0.007516
Std Dev 1.042

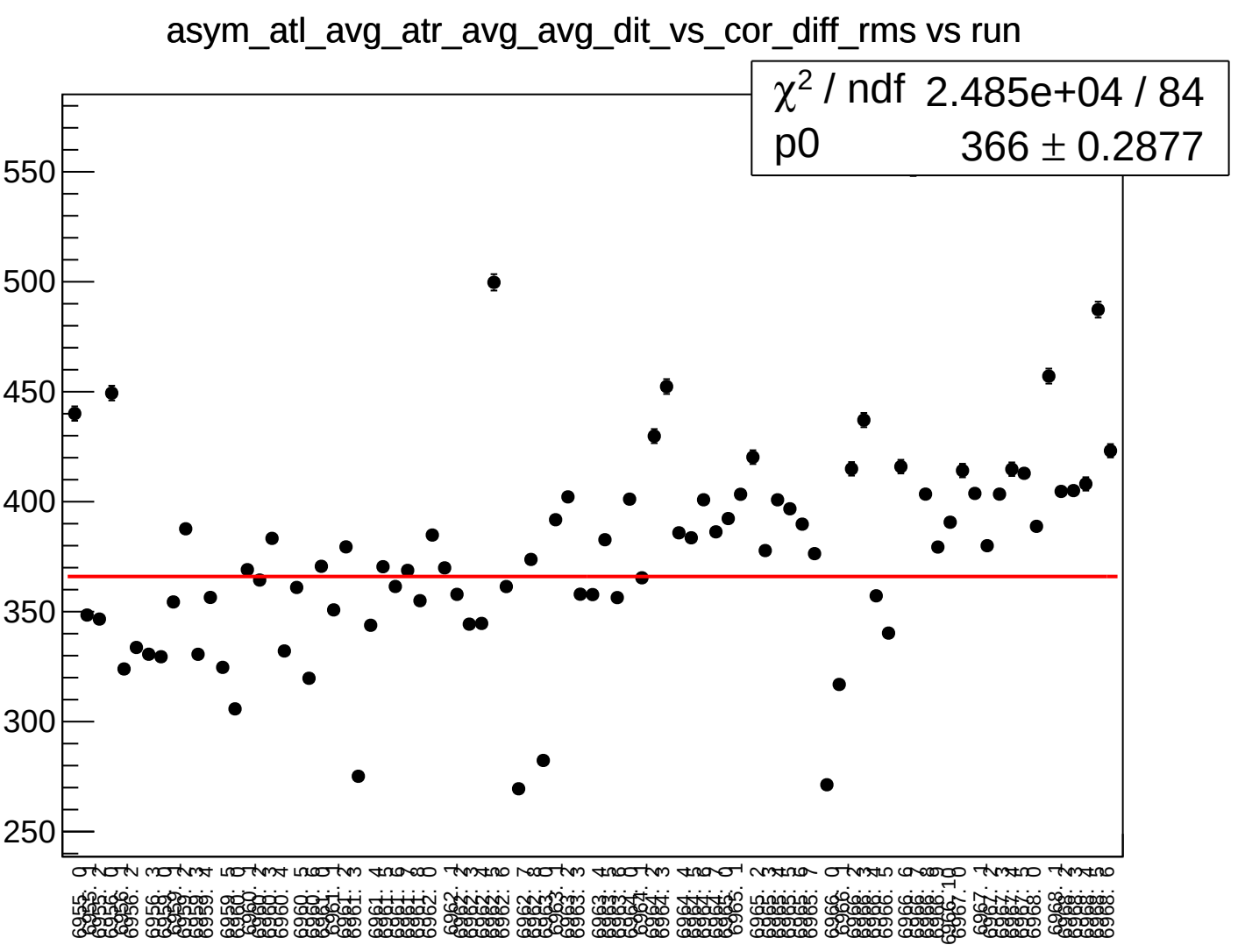

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.281e+04 / 84
p0 6261 ± 4.904
8000
7500
7000
6500
6000
5500
5000

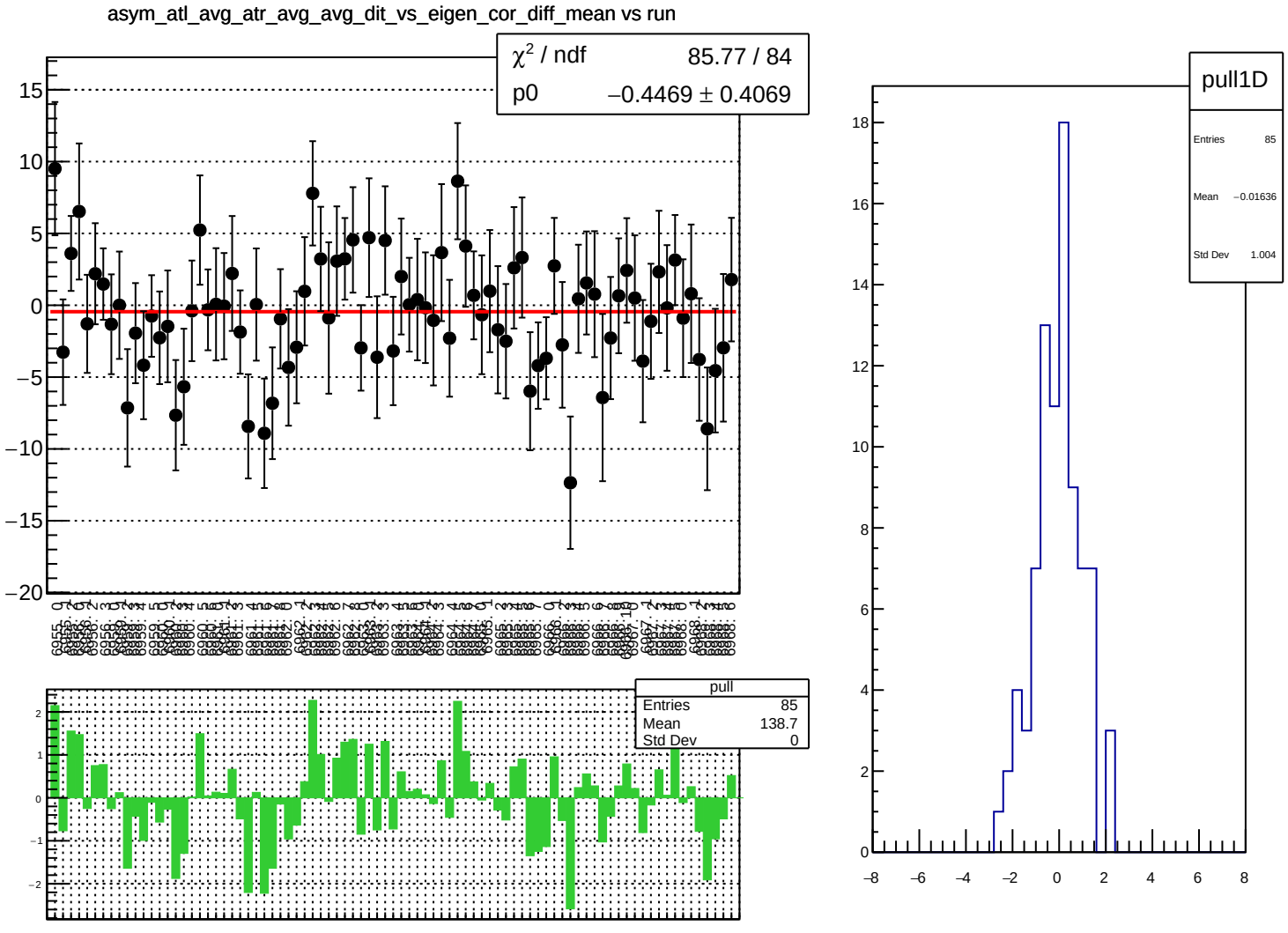

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.17 / 84
p0 4.728e−13 ± 2.699e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 85
Mean 65.5
Std Dev 36.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean −0.0542
Std Dev 0.9198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

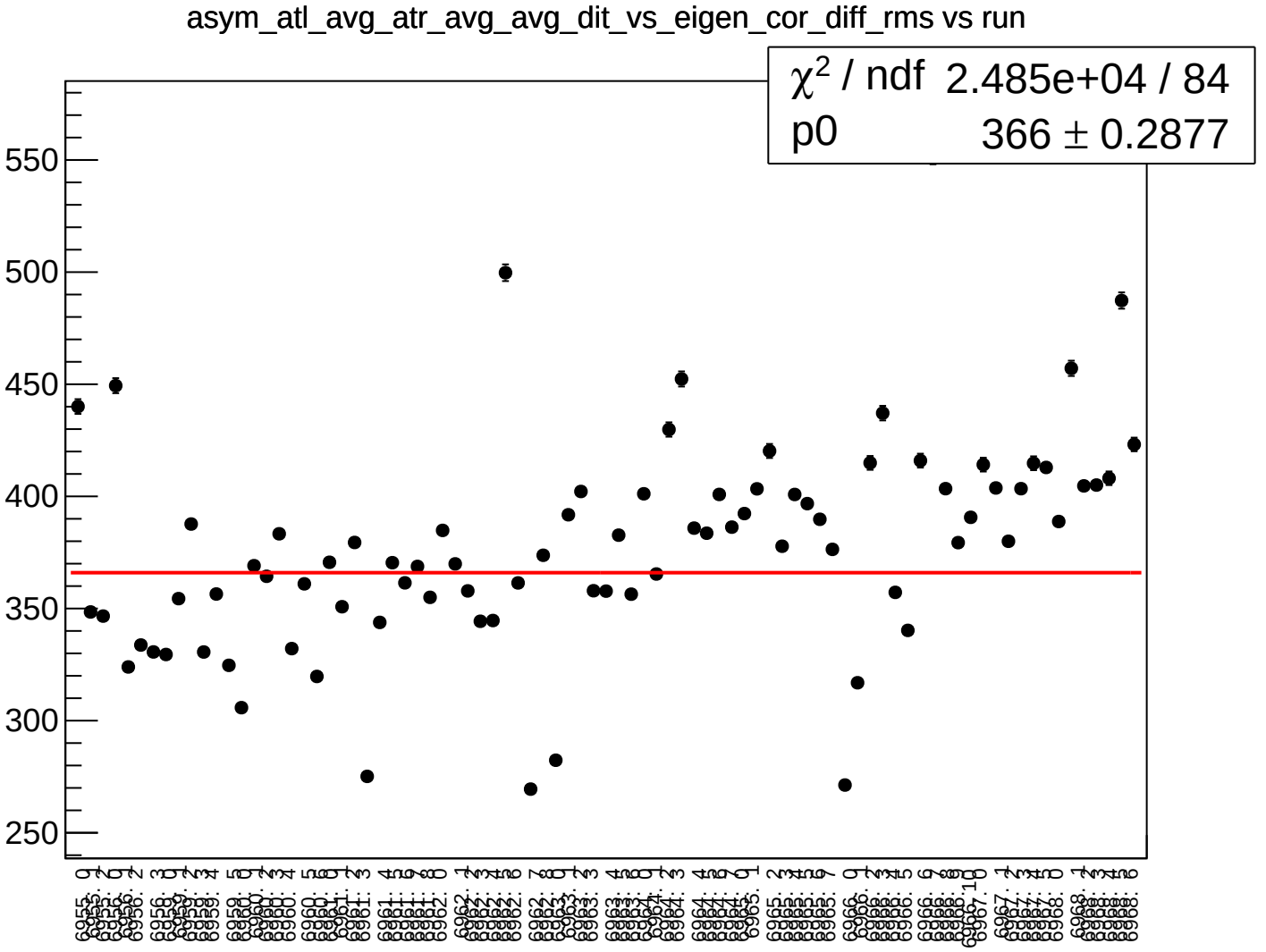

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.151e+06 / 84
p0 1.338e−10 ± 1.908e−13
1
0.8
0.6
0.4
0.2
0

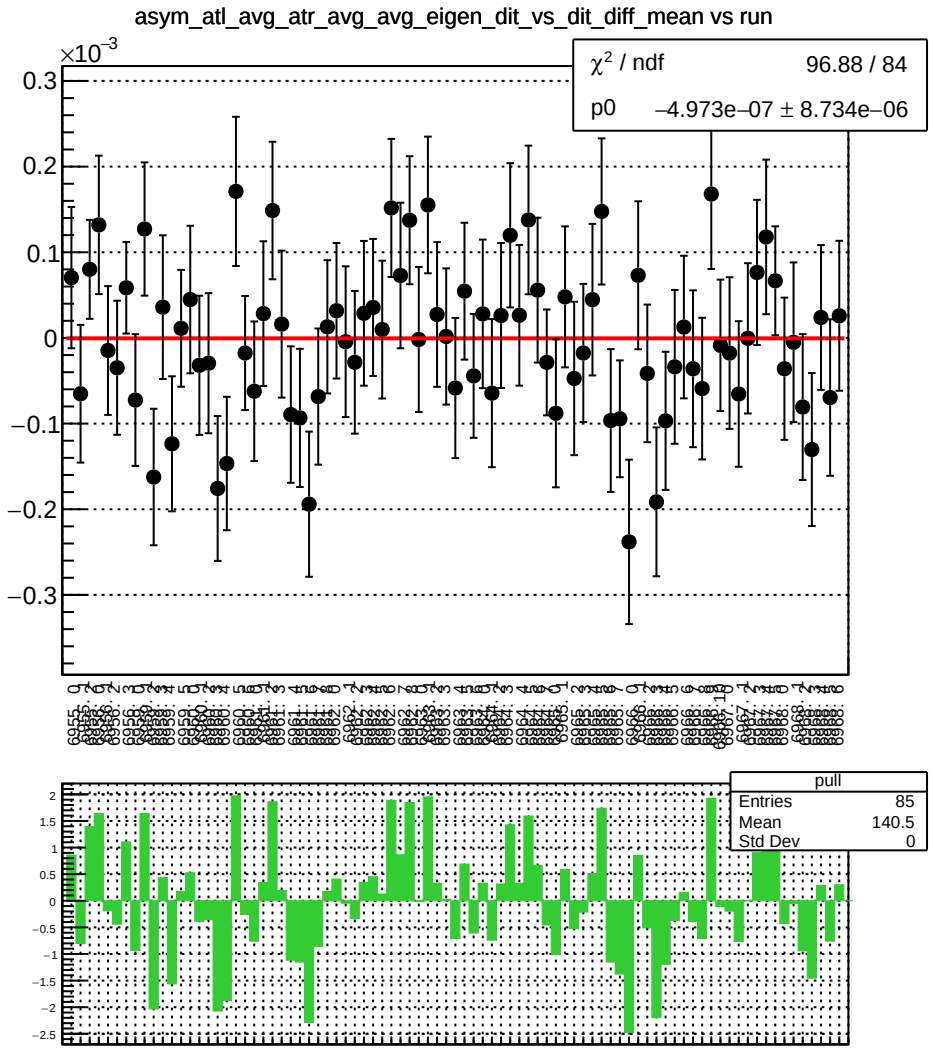

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.77 / 84
p0 −0.4469 ± 0.4069
pull
Entries 85
Mean 138.7
Std Dev 0

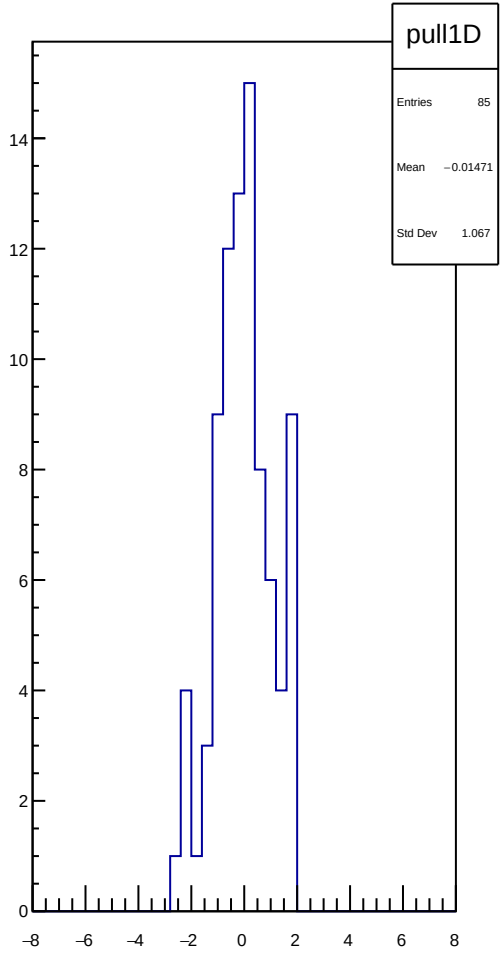

pull1D
Entries 85
Mean −0.01636
Std Dev 1.004

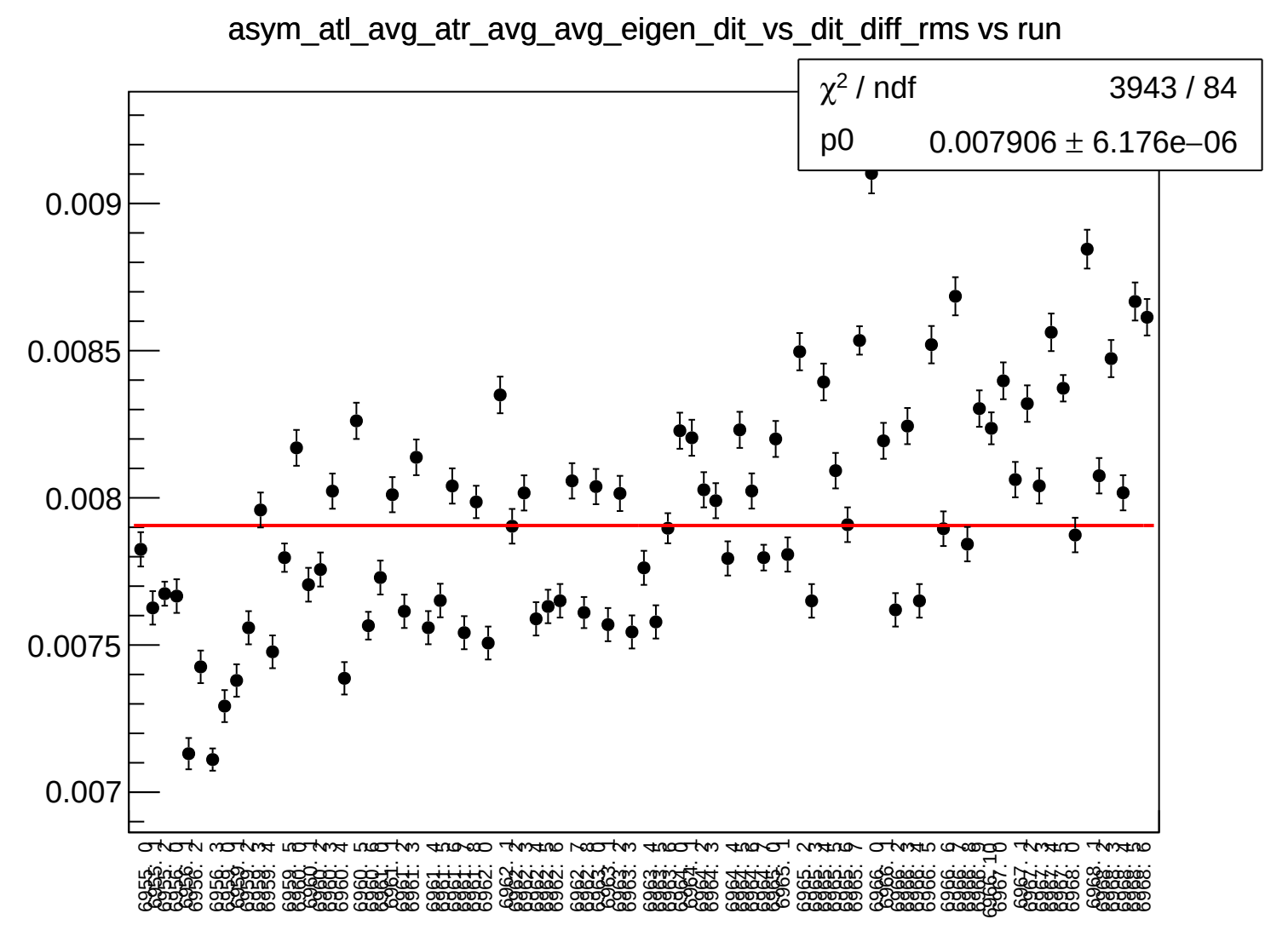

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.485e+04 / 84
p0 366 ± 0.2877
550
500
450
400
350
300
250

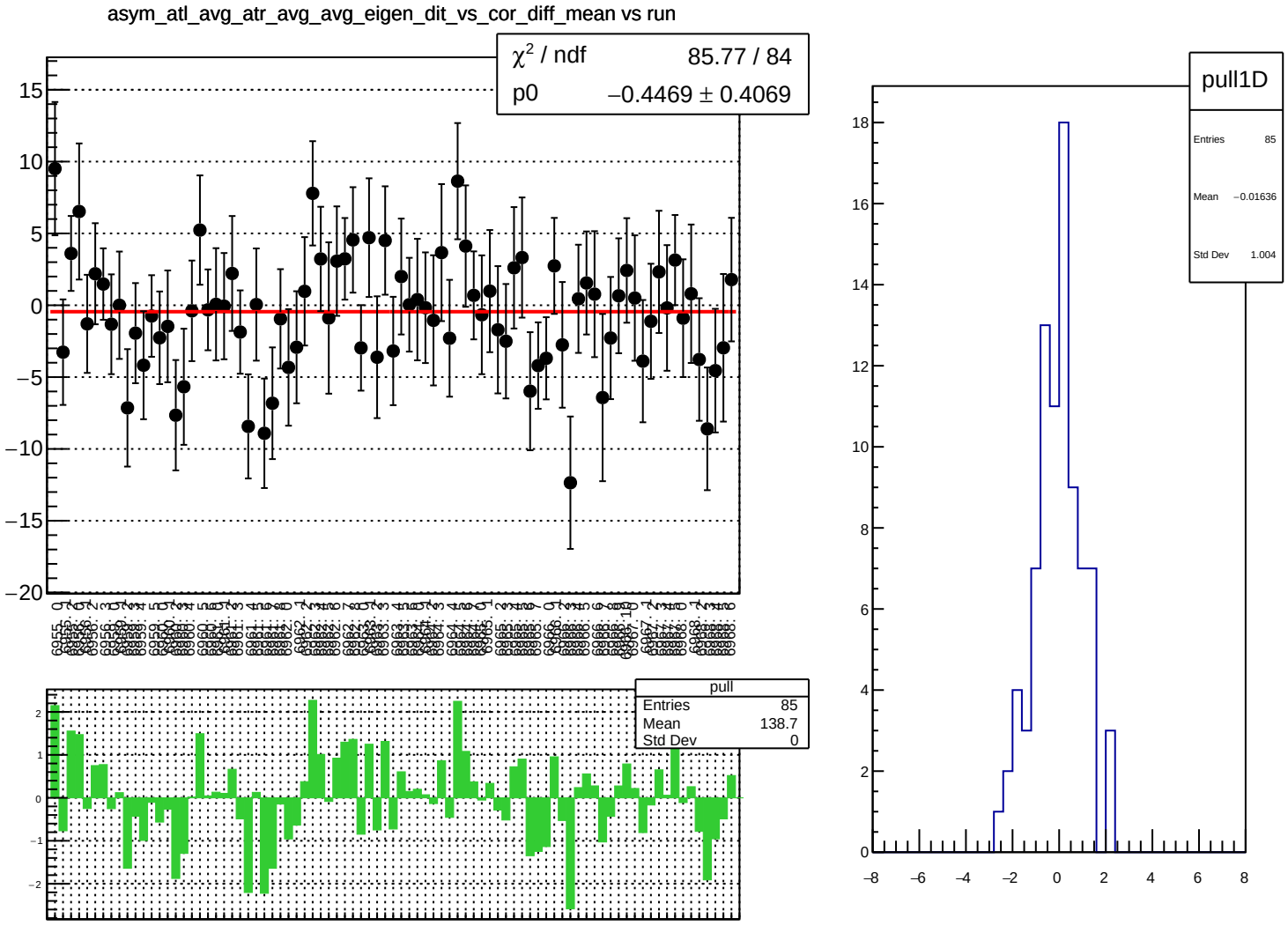

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.77 / 84
p0 −0.4469 ± 0.4069
pull
Entries 85
Mean 138.7
Std Dev 0
pull1D
Entries 85
Mean −0.01636
Std Dev 1.004

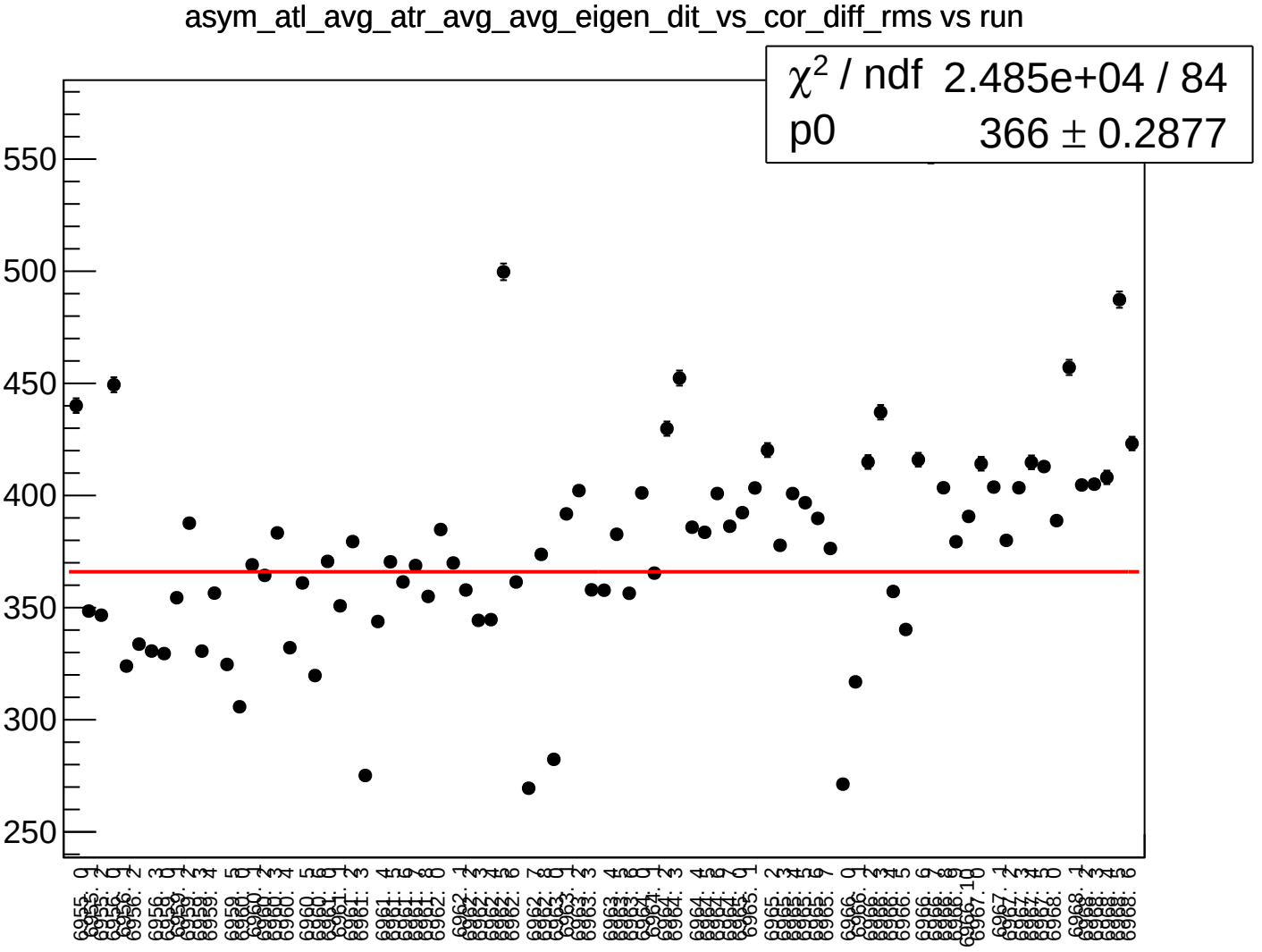

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.485e+04 / 84
p0 366 ± 0.2877
550
500
450
400
350
300
250

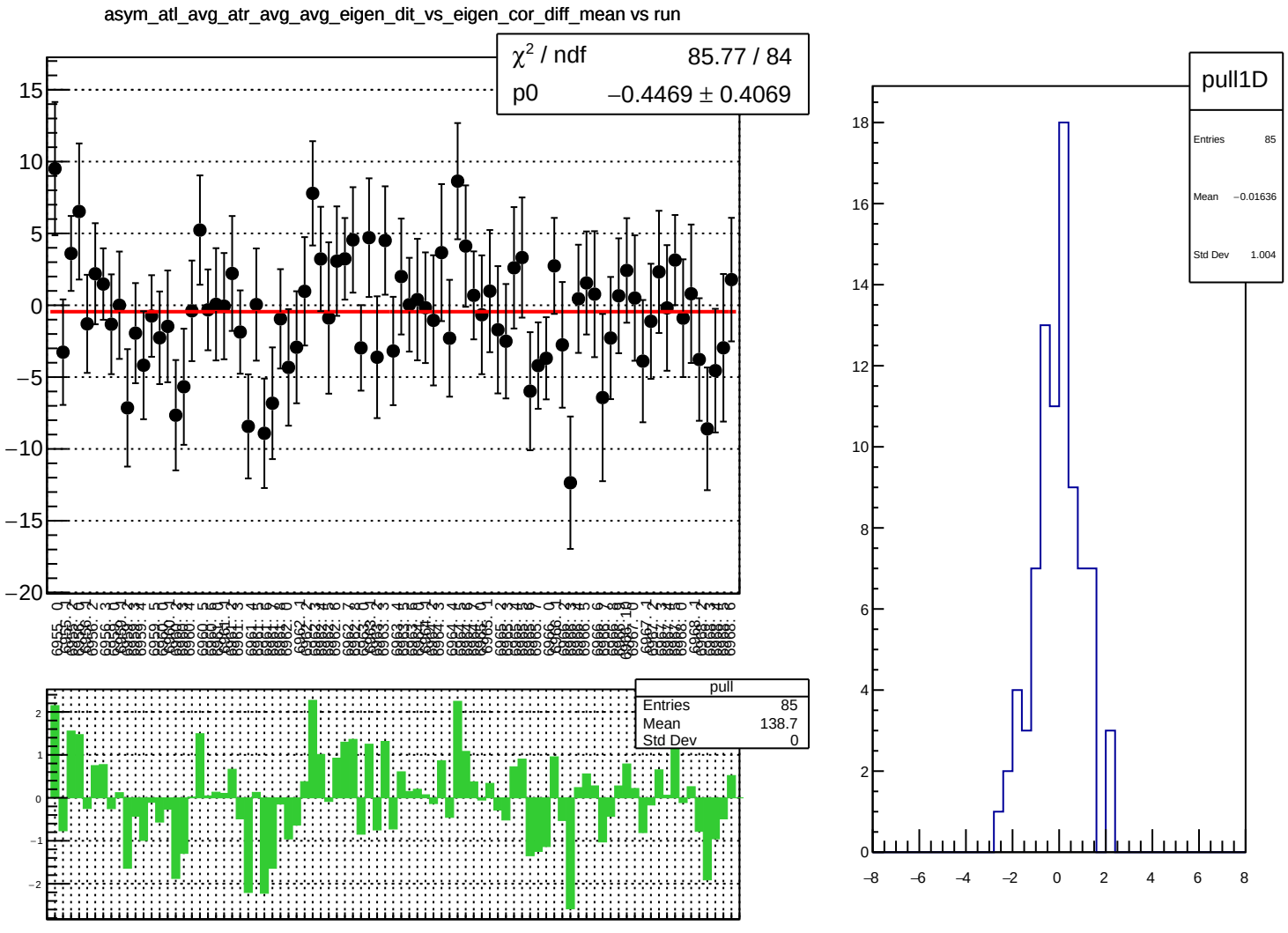

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.88 / 84
p0 −4.973e−07 ± 8.734e−06
pull
Entries 85
Mean 140.5
Std Dev 0

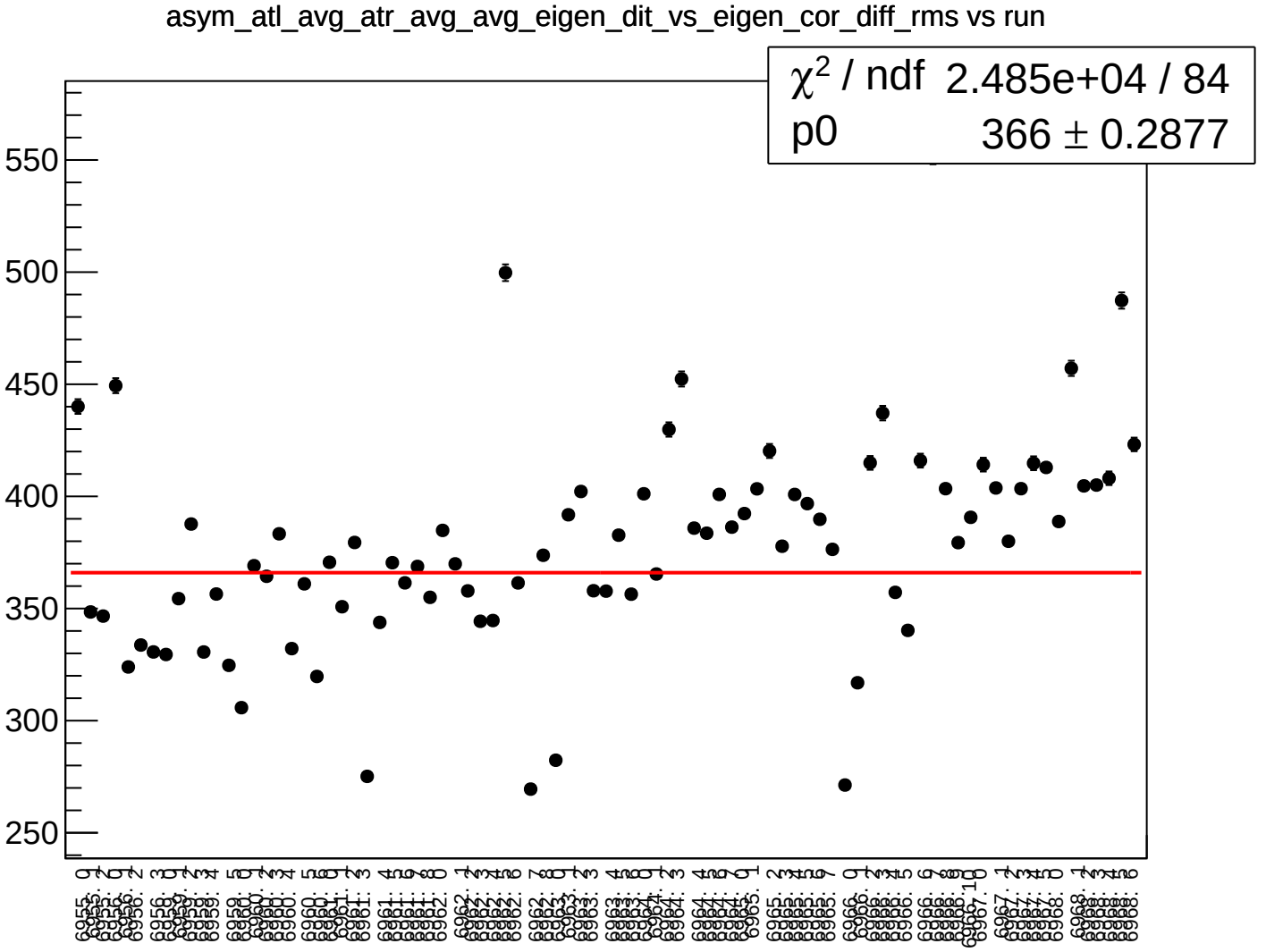

pull1D
Entries 85
Mean −0.01471
Std Dev 1.067

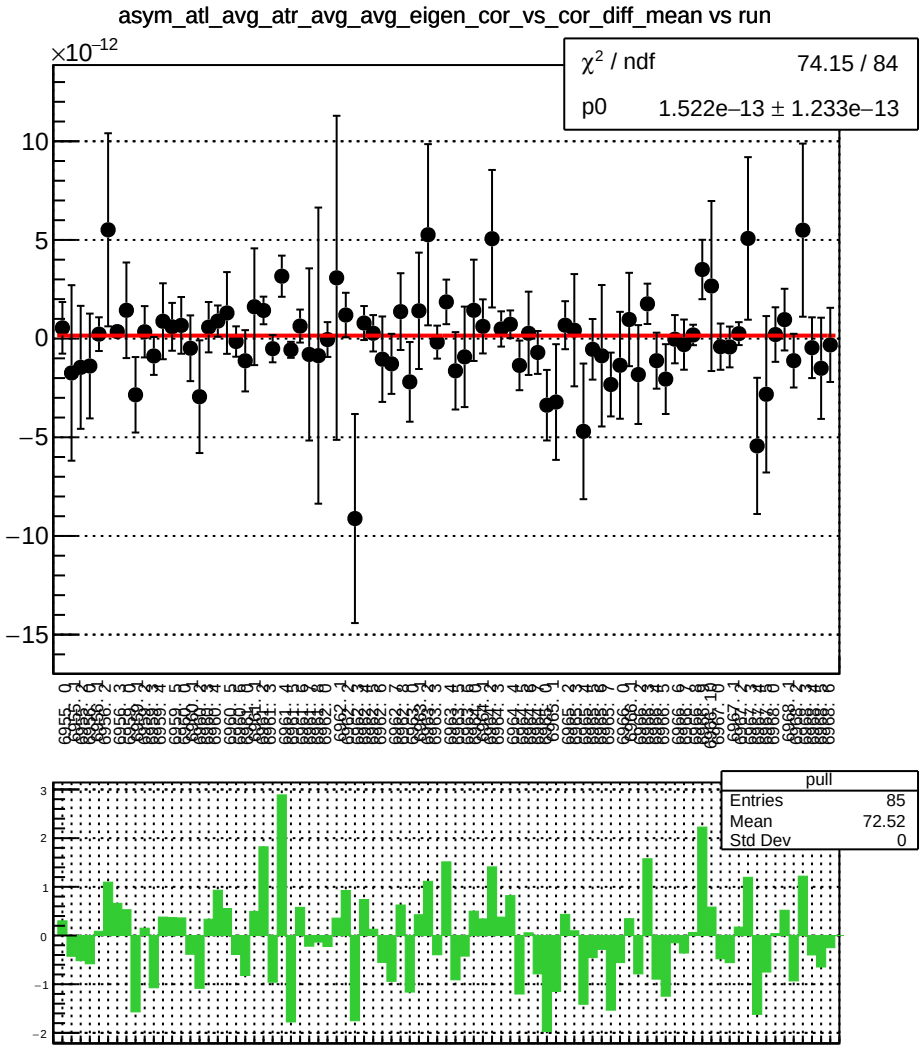

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3943 / 84
p0 0.007906 ± 6.176e−06
0.009
0.0085
0.008
0.0075
0.007

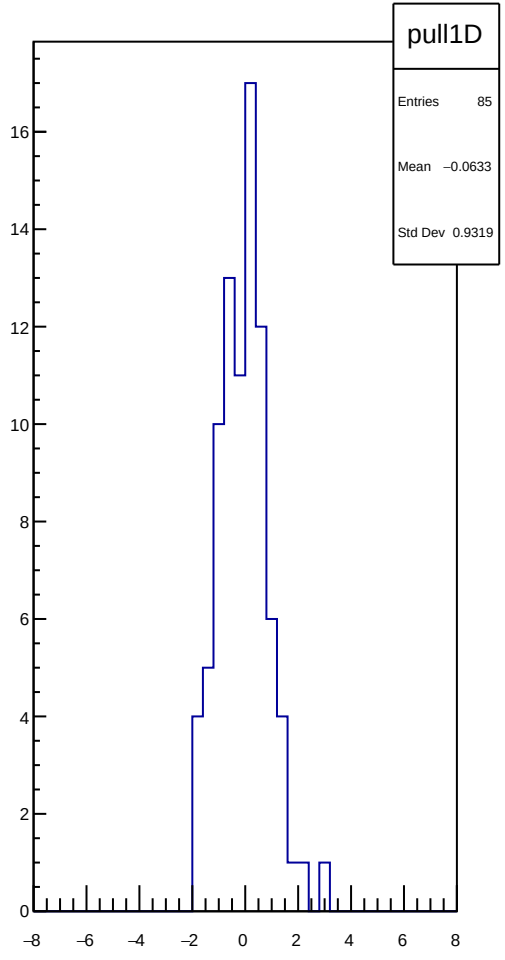

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.77 / 84
p0 −0.4469 ± 0.4069
pull
Entries 85
Mean 138.7
Std Dev 0
pull1D
Entries 85
Mean −0.01636
Std Dev 1.004

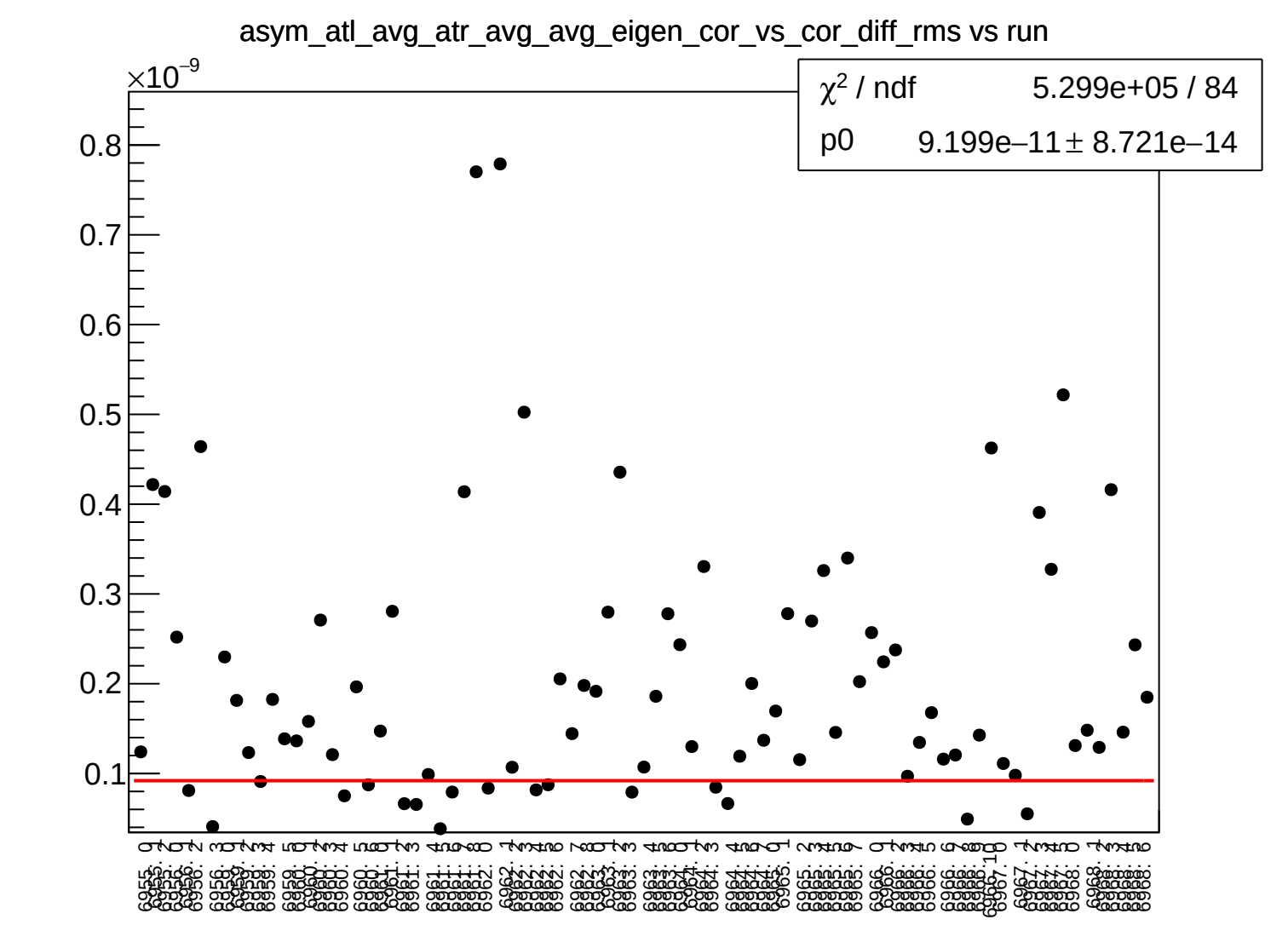

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.485e+04 / 84
p0 366 ± 0.2877
550
500
450
400
350
300
250

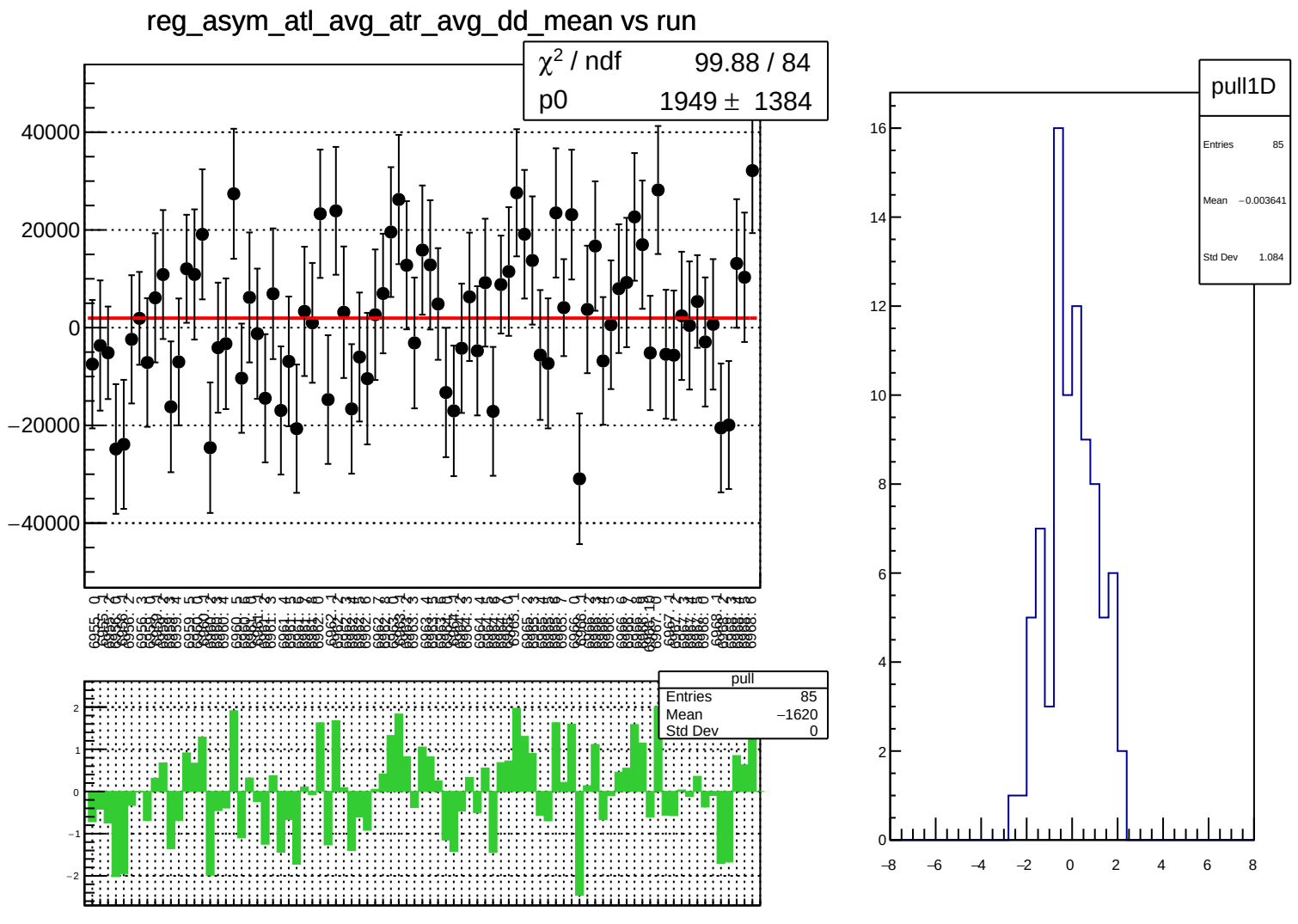

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.77 / 84
p0 −0.4469 ± 0.4069
pull
Entries 85
Mean 138.7
Std Dev 0
pull1D
Entries 85
Mean −0.01636
Std Dev 1.004

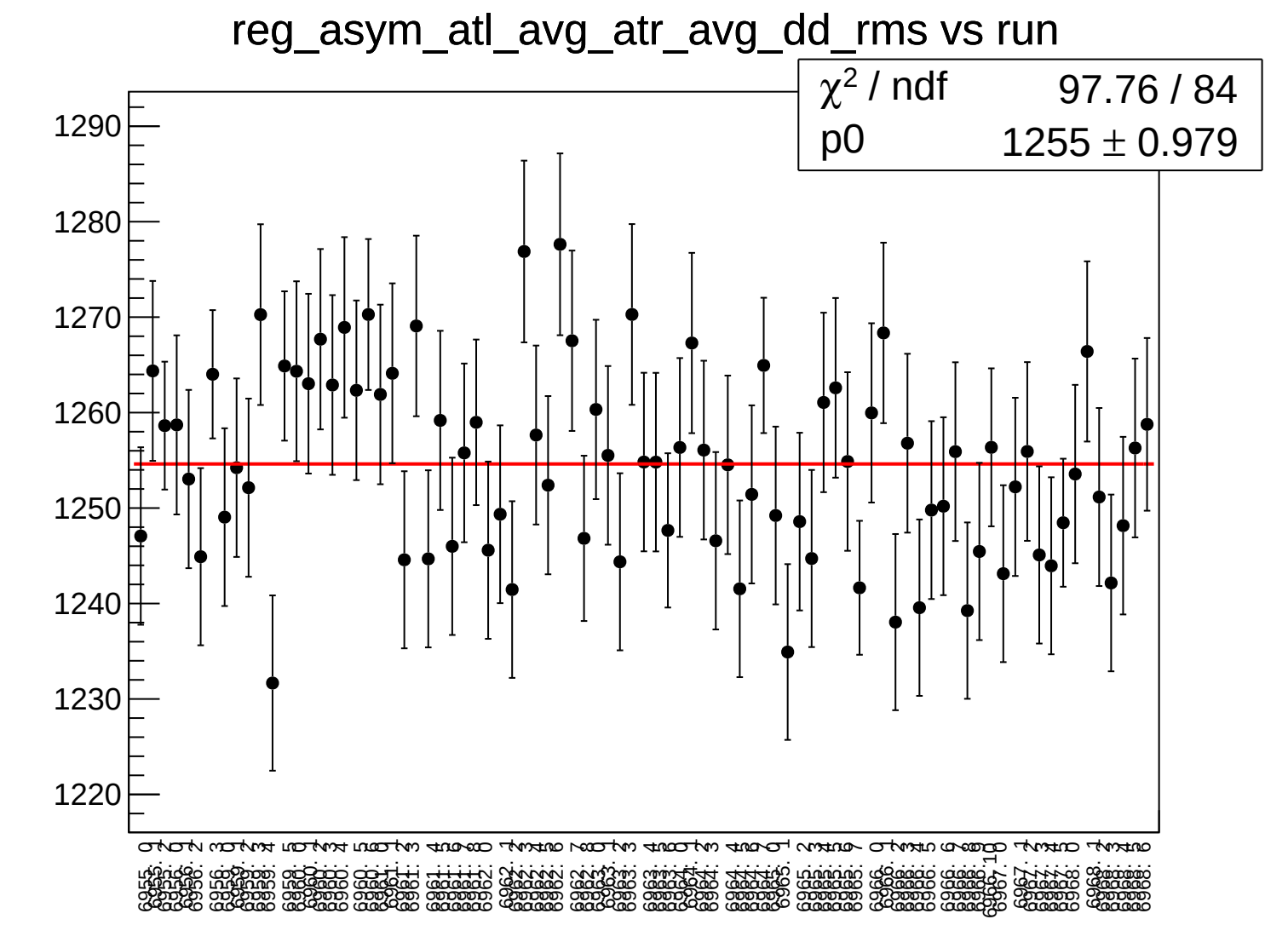

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.485e+04 / 84
p0 366 ± 0.2877
550
500
450
400
350
300
250

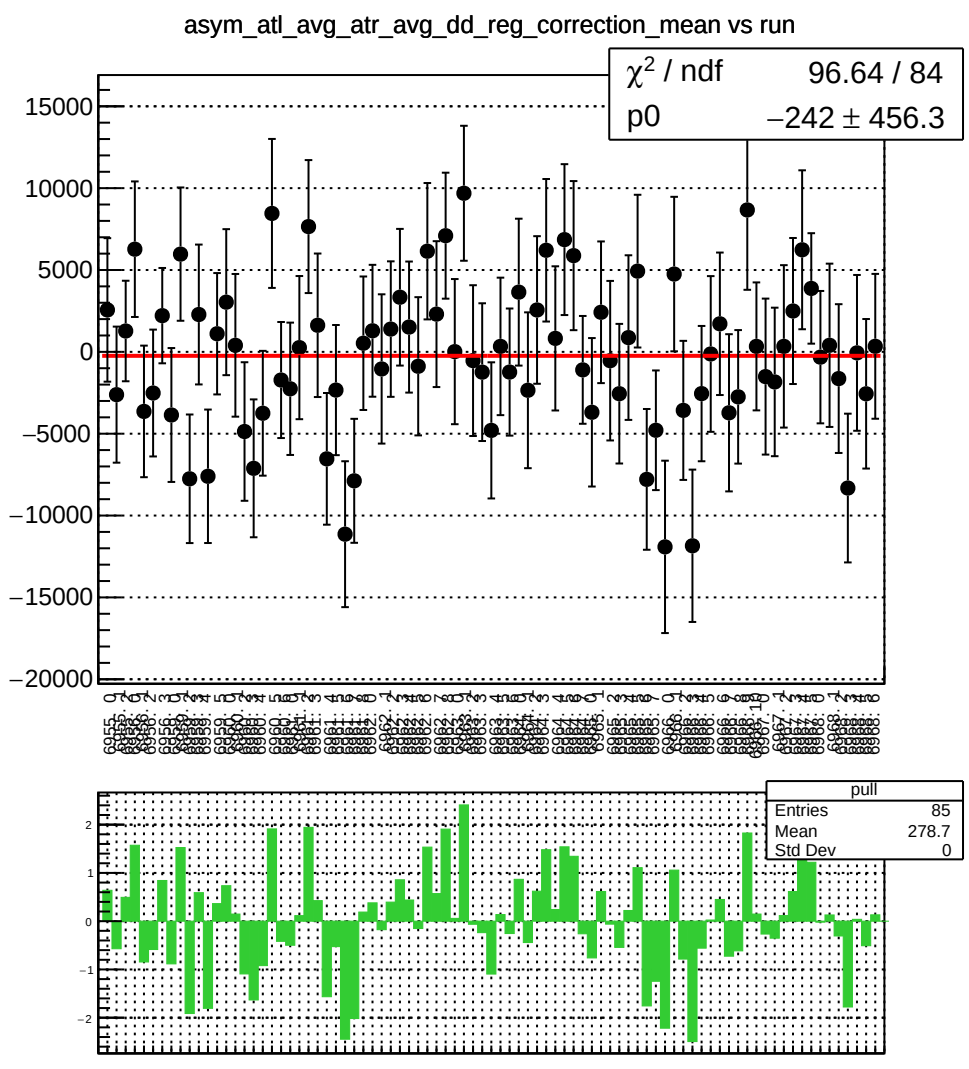

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.15 / 84
p0 1.522e−13 ± 1.233e−13
10
5
0
−5
−10
−15
pull
Entries 85
Mean 72.52
Std Dev 0
3
2
1
0
−1
−2

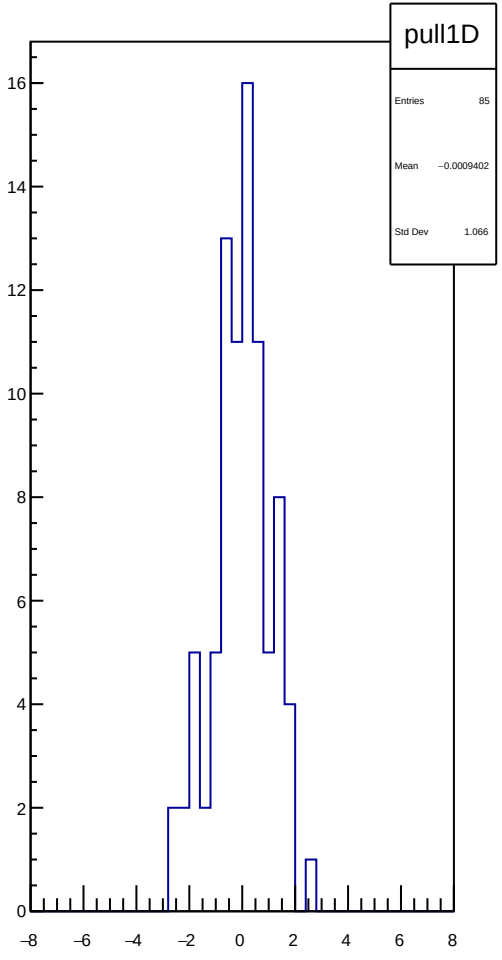

pull1D
Entries 85
Mean −0.0633
Std Dev 0.9319
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

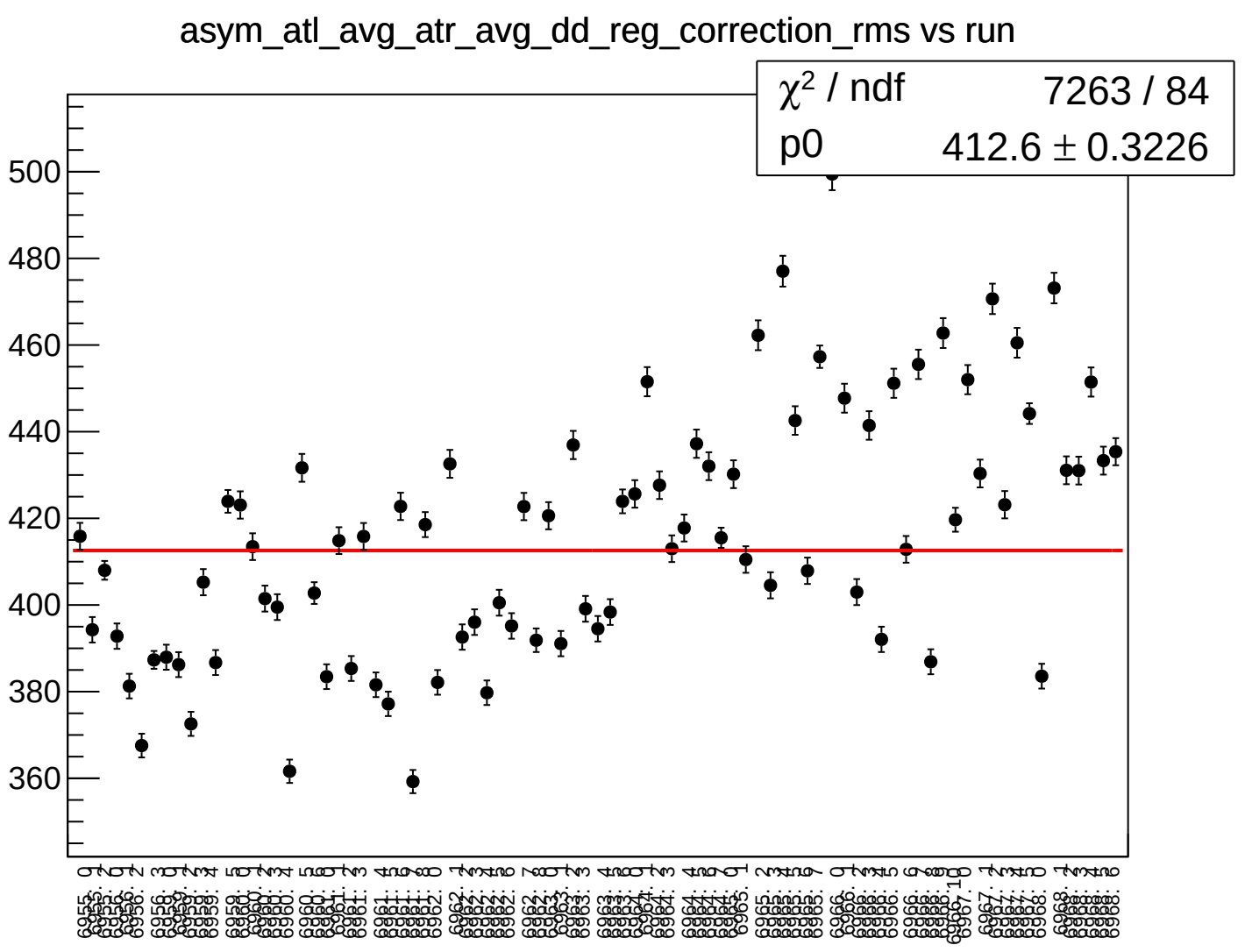

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.299e+05 / 84
p0 9.199e−11 ± 8.721e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

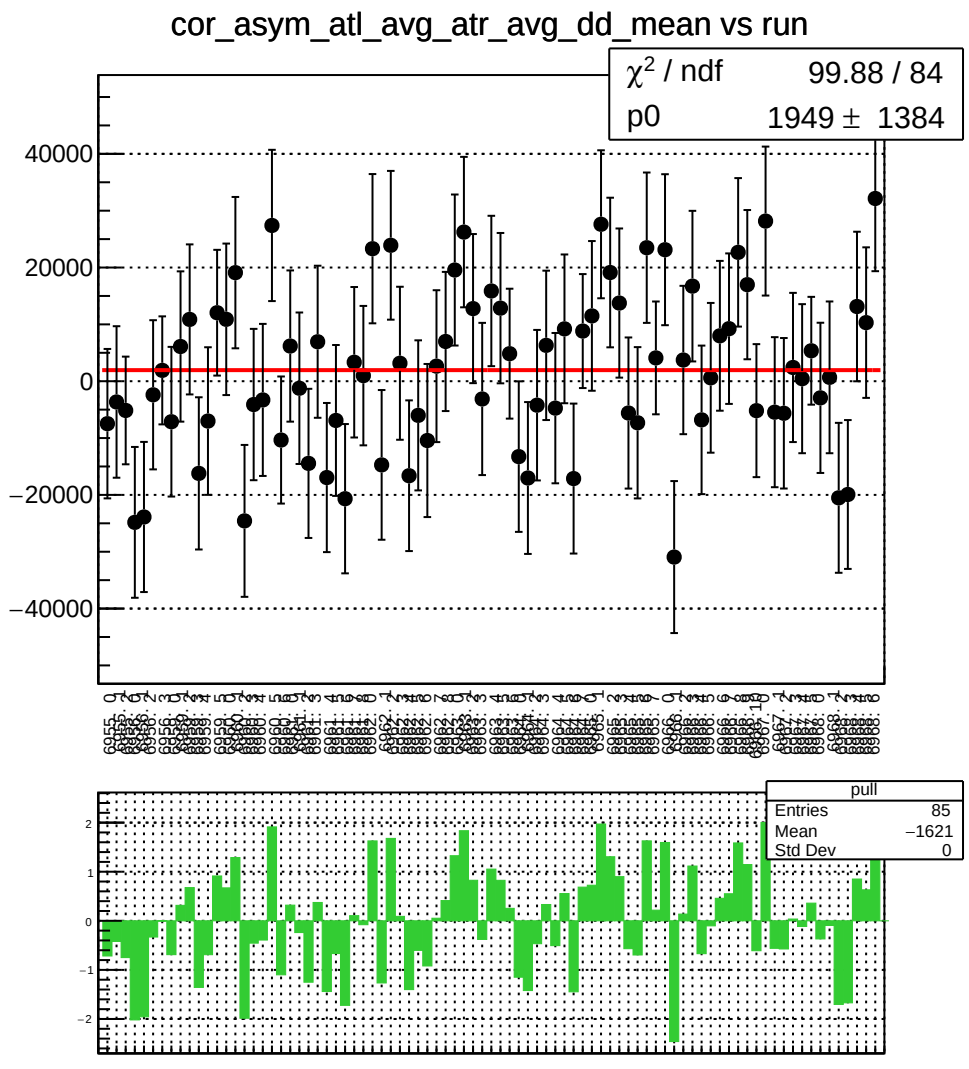

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.88 / 84
p0 1949 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1620
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.003641
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

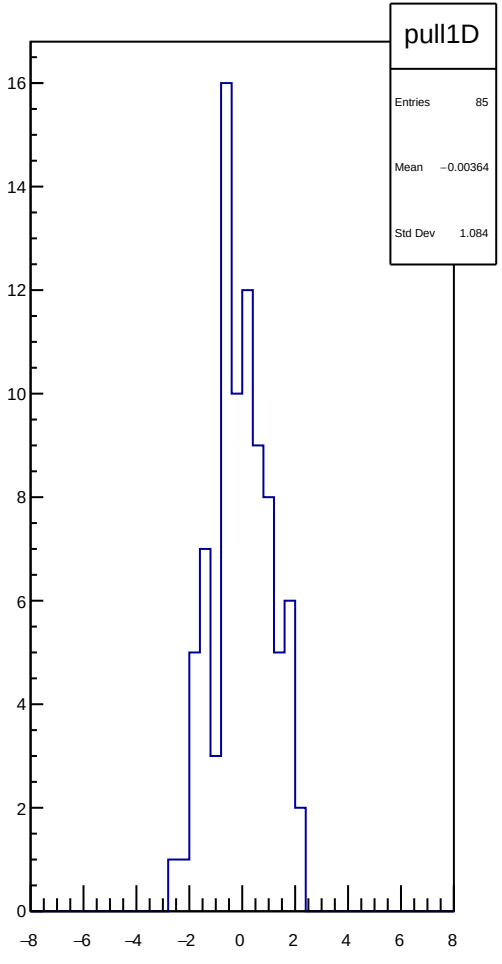

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 97.76 / 84
p0 1255 ± 0.979
1290
1280
1270
1260
1250
1240
1230
1220

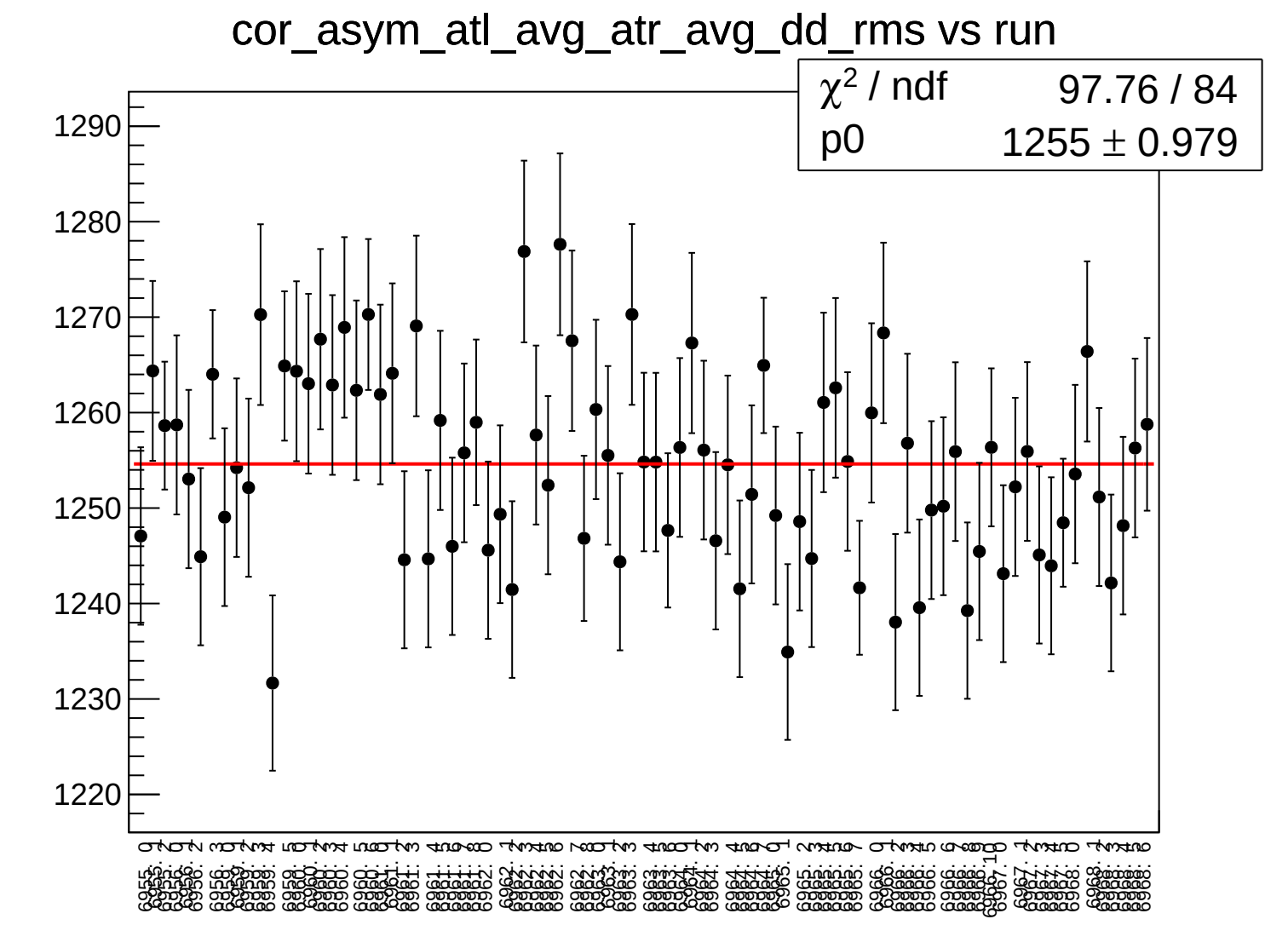

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 96.64 / 84
p0 −242 ± 456.3
pull
Entries 85
Mean 278.7
Std Dev 0

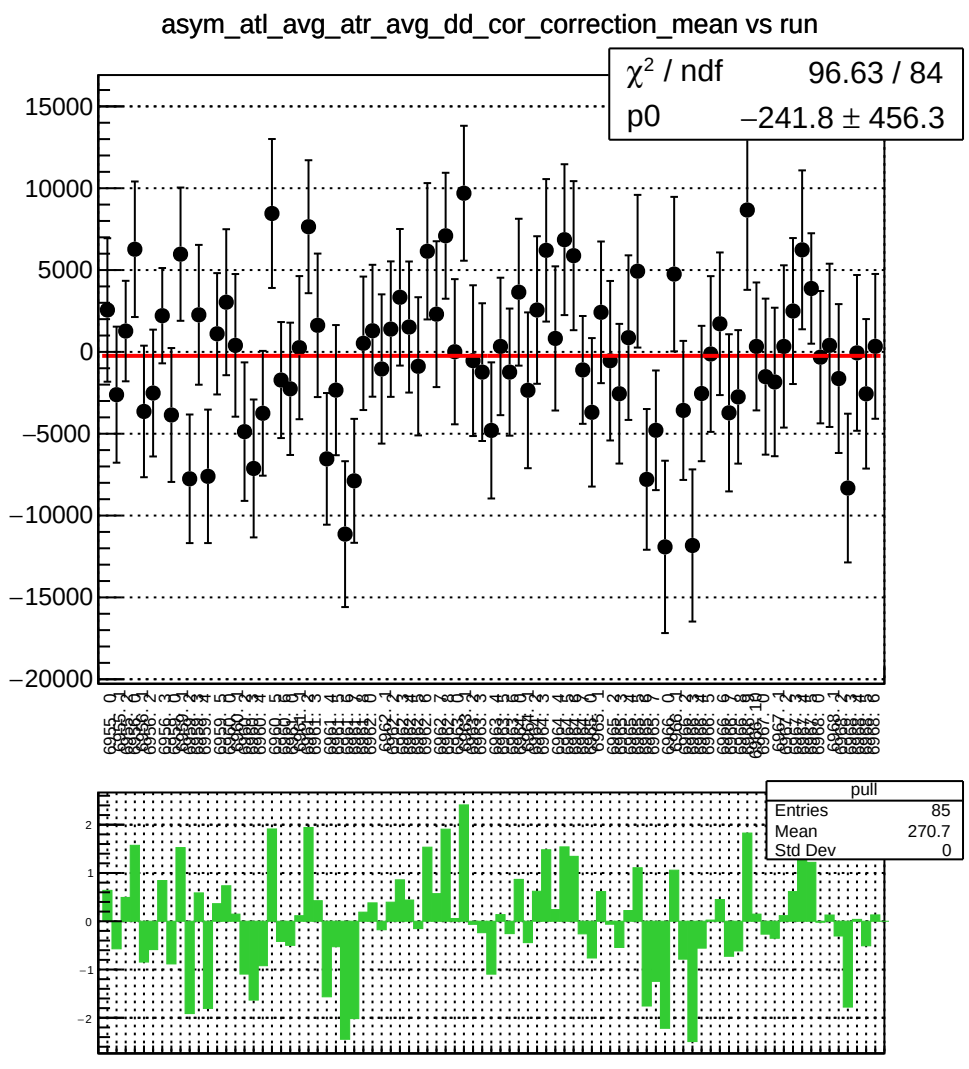

pull1D
Entries 85
Mean −0.0009402
Std Dev 1.066

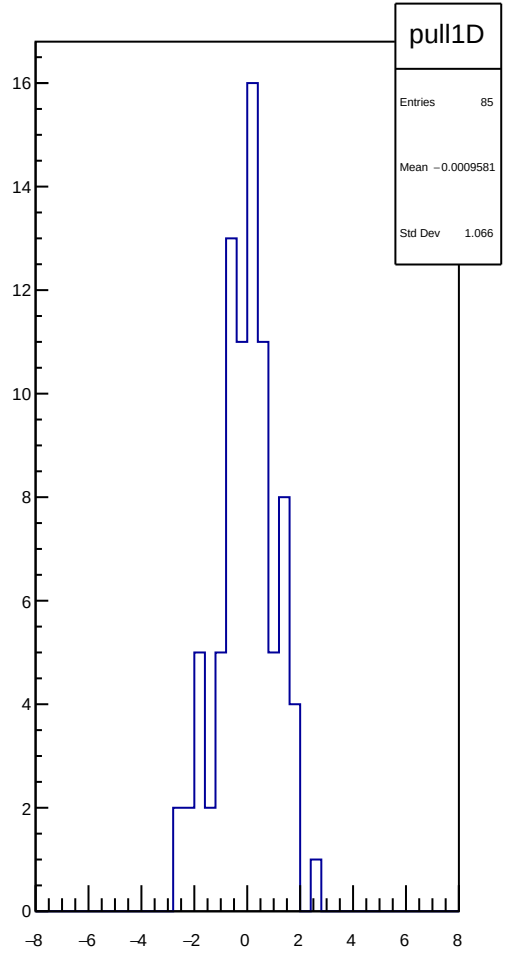

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 7263 / 84
p0 412.6 ± 0.3226
500
480
460
440
420
400
380
360

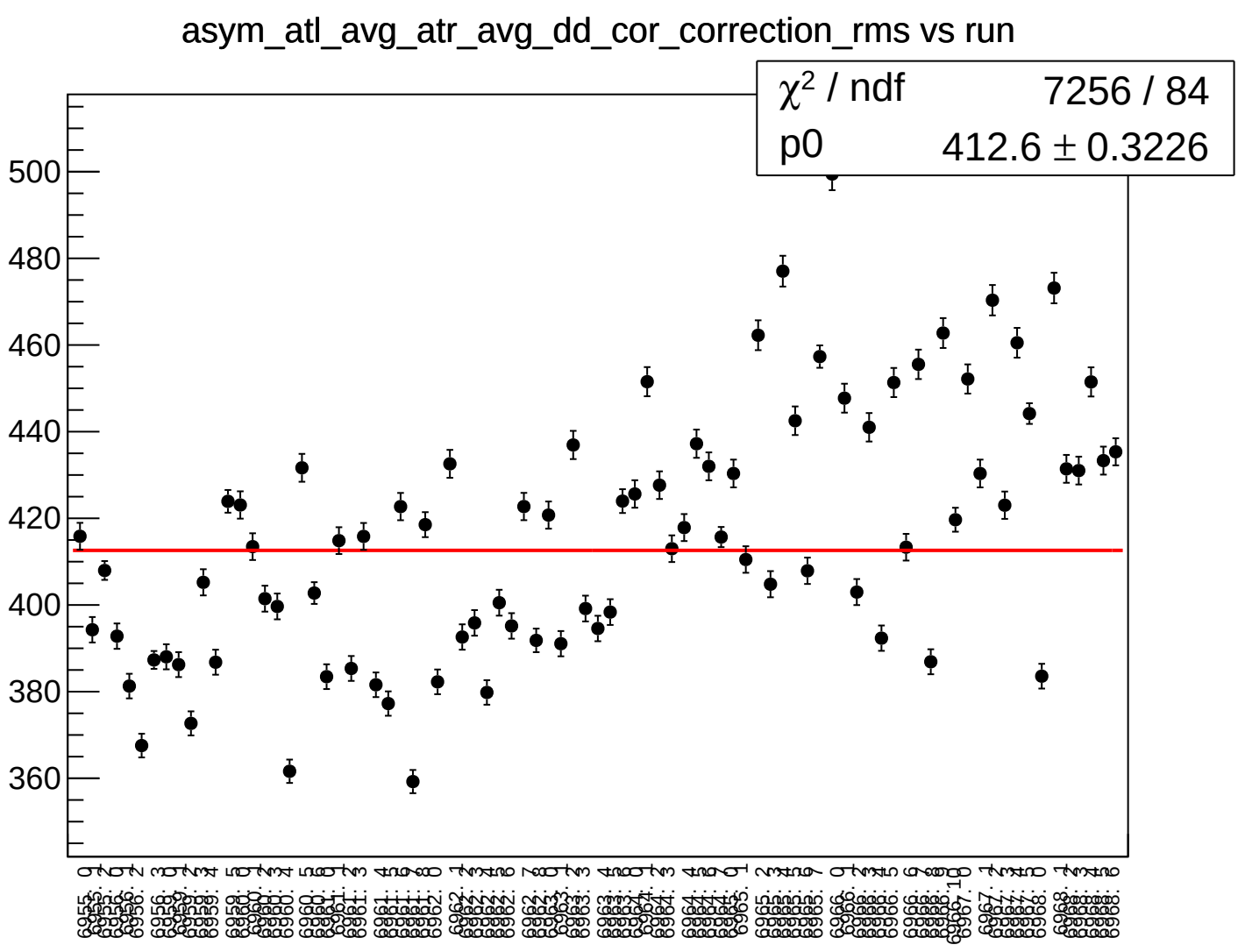

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.88 / 84
p0 1949 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1621
Std Dev 0
2
1
0
−1
−2

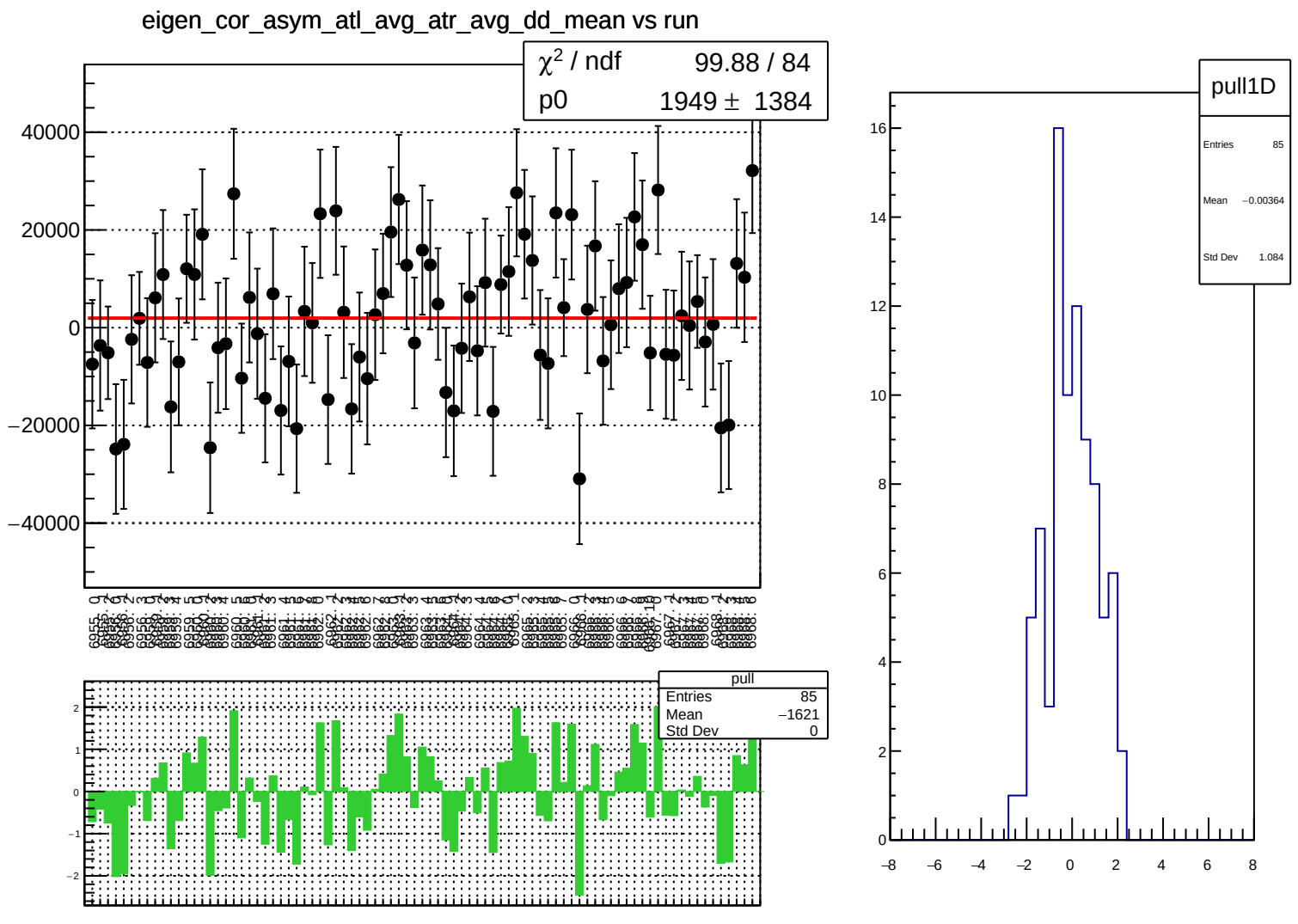

pull1D
Entries 85
Mean −0.00364
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

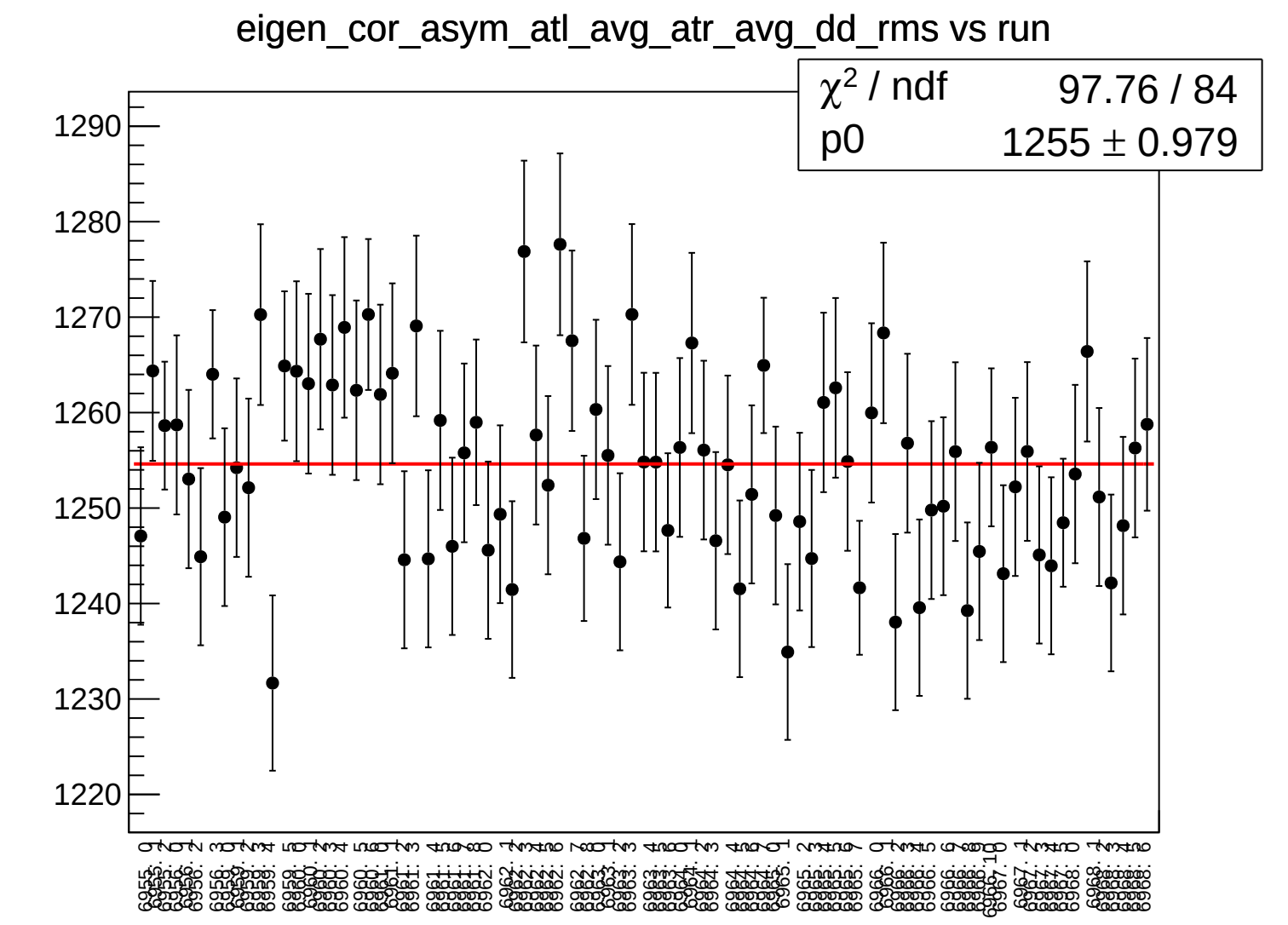

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 97.76 / 84
p0 1255 ± 0.979
1290
1280
1270
1260
1250
1240
1230
1220

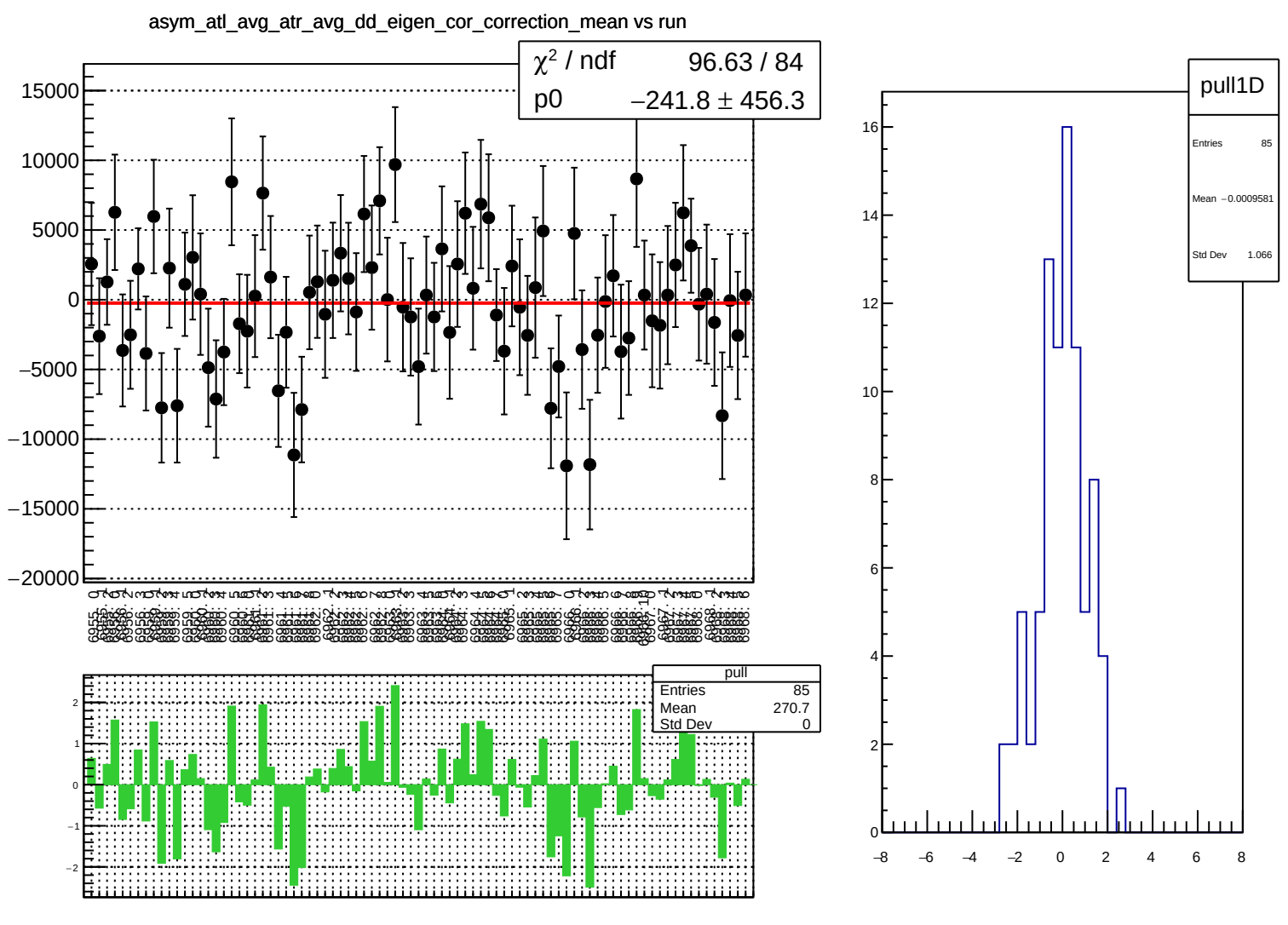

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 96.63 / 84
p0 −241.8 ± 456.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 270.7
Std Dev 0
2
1
0
−1
−2

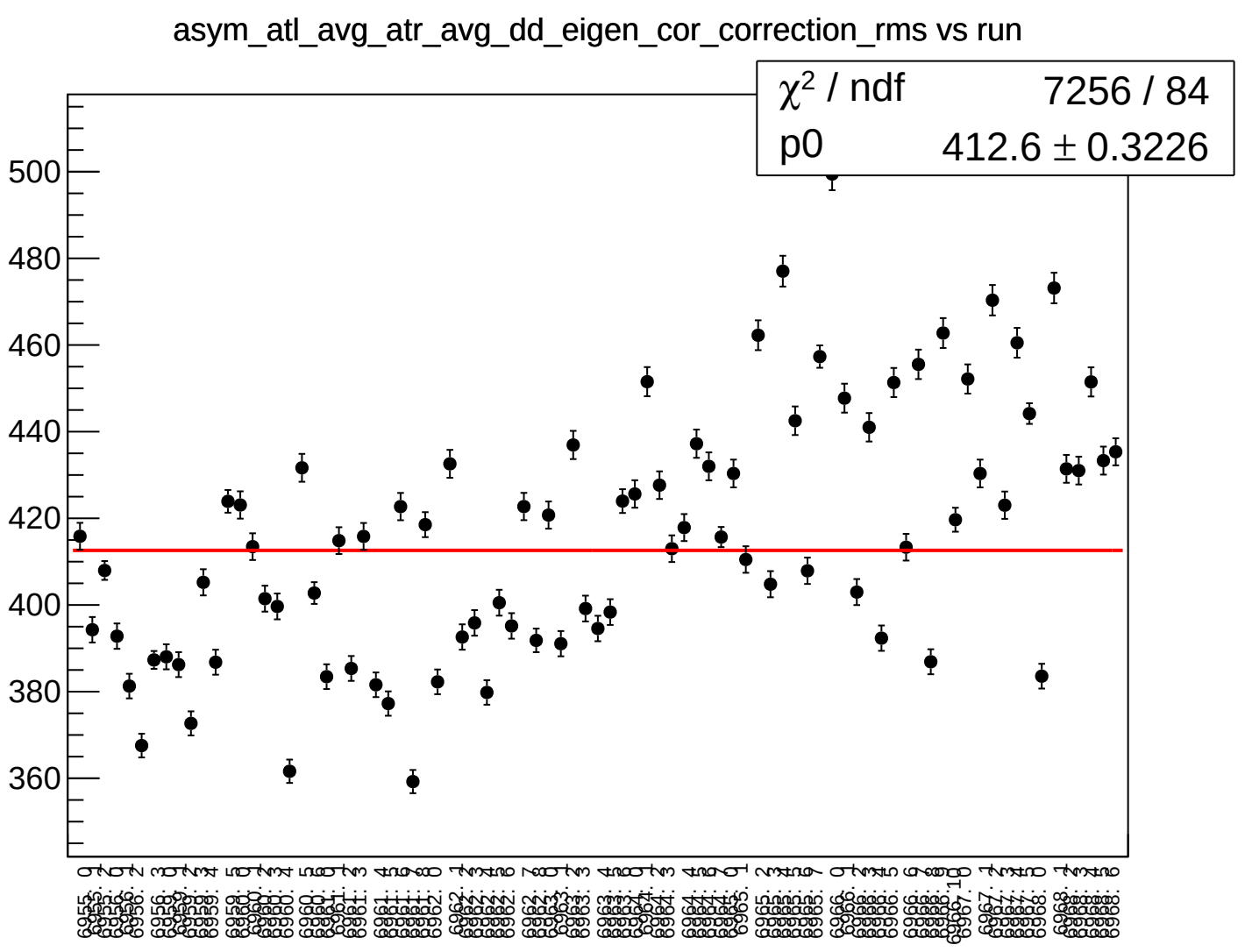

pull1D
Entries 85
Mean −0.0009581
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

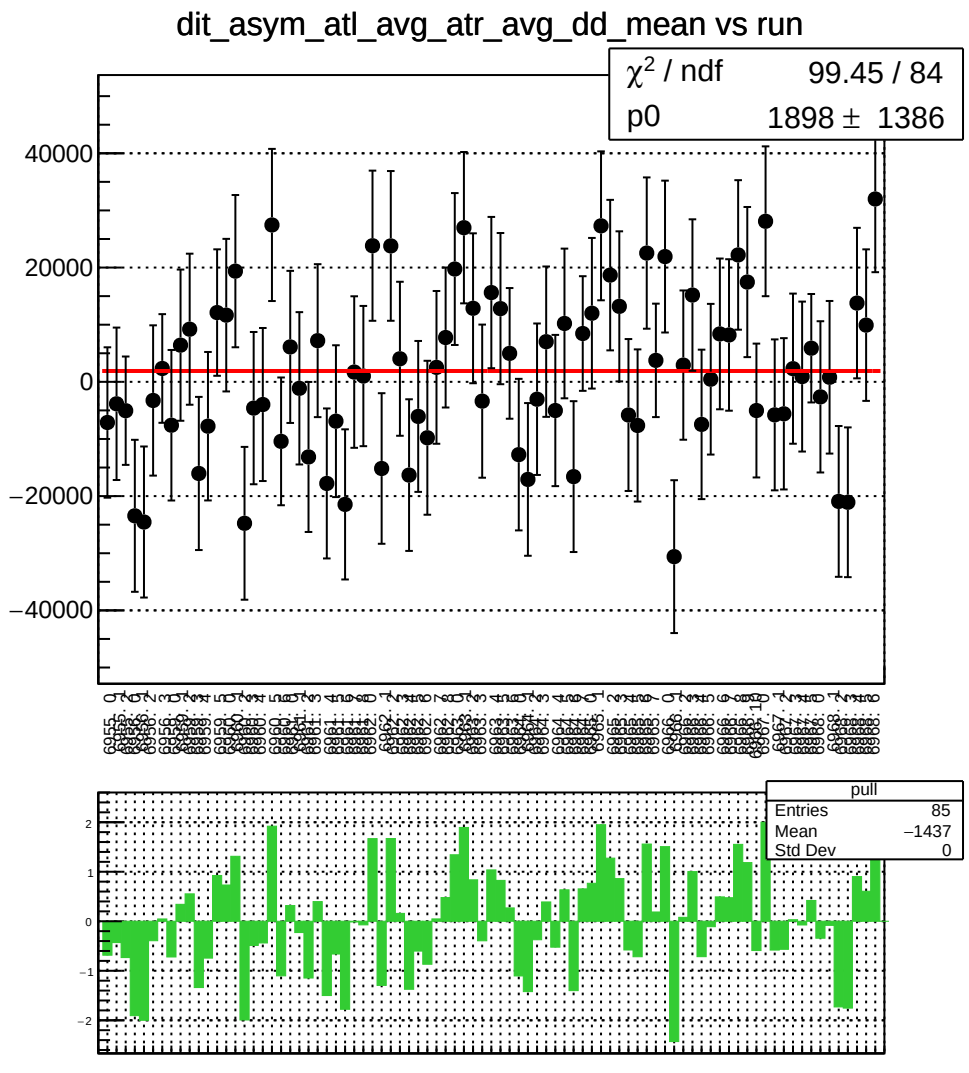

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 7256 / 84
p0 412.6 ± 0.3226
500
480
460
440
420
400
380
360

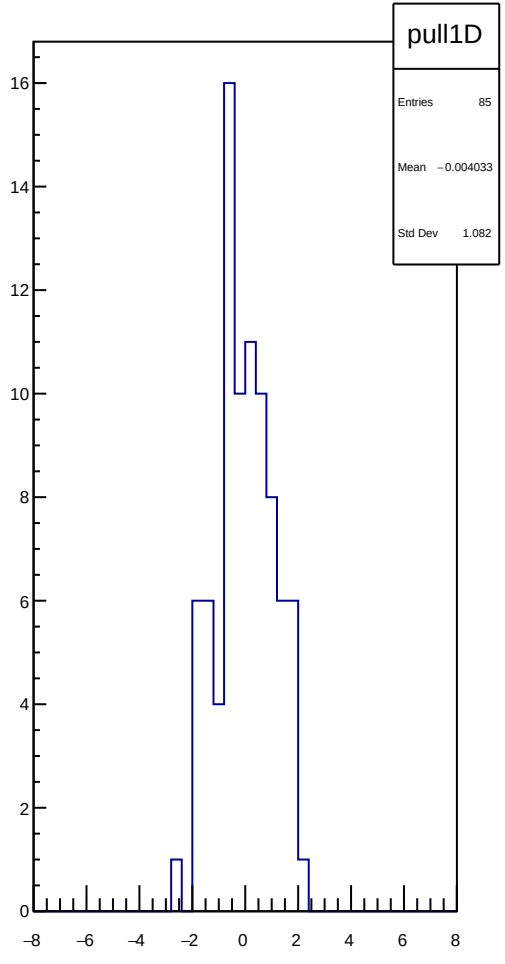

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.88 / 84
p0 1949 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1621
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.00364
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

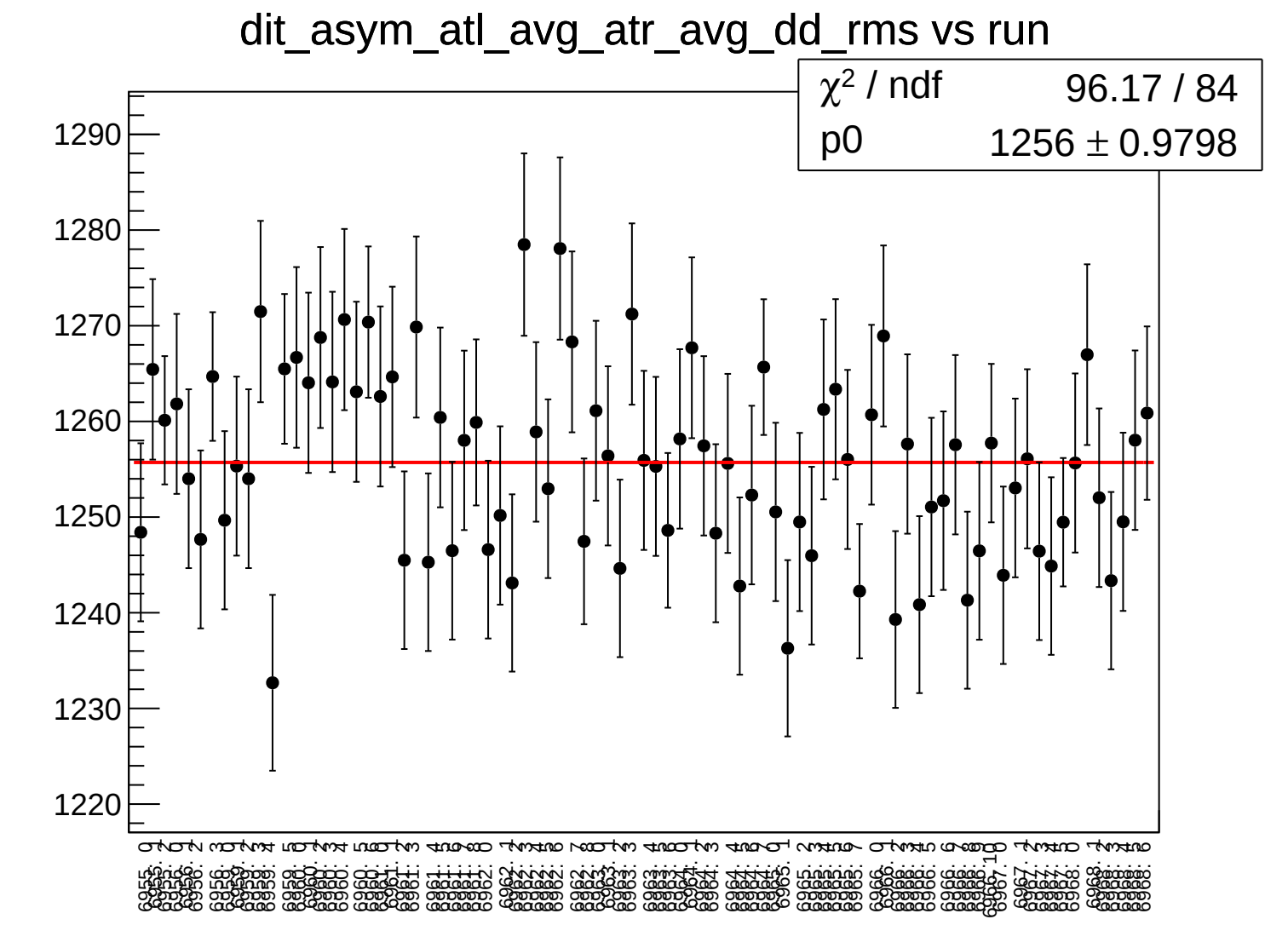

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 97.76 / 84
p0 1255 ± 0.979
1290
1280
1270
1260
1250
1240
1230
1220

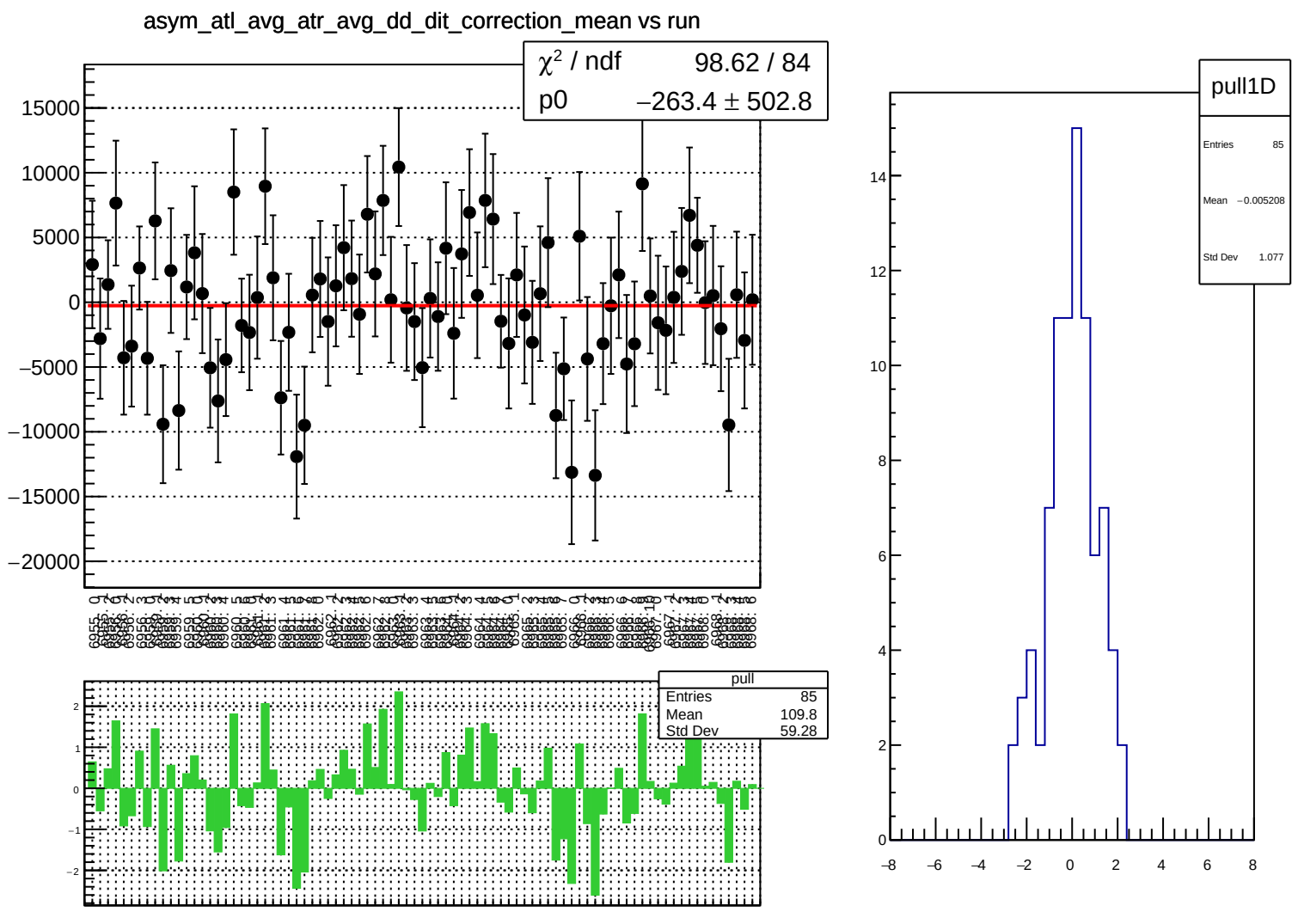

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.63 / 84
p0 −241.8 ± 456.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 270.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.0009581
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

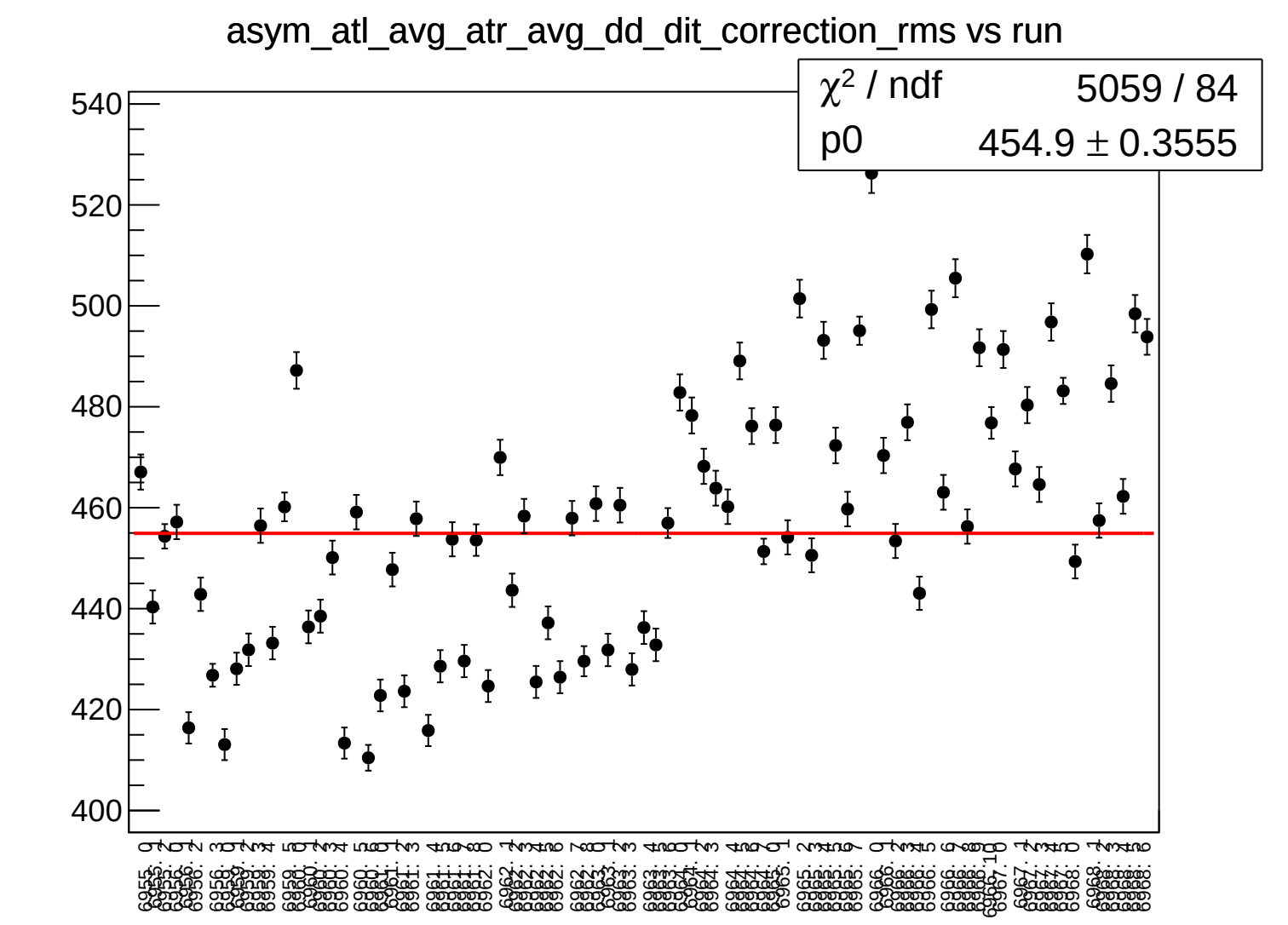

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7256 / 84
p0 412.6 ± 0.3226
500
480
460
440
420
400
380
360

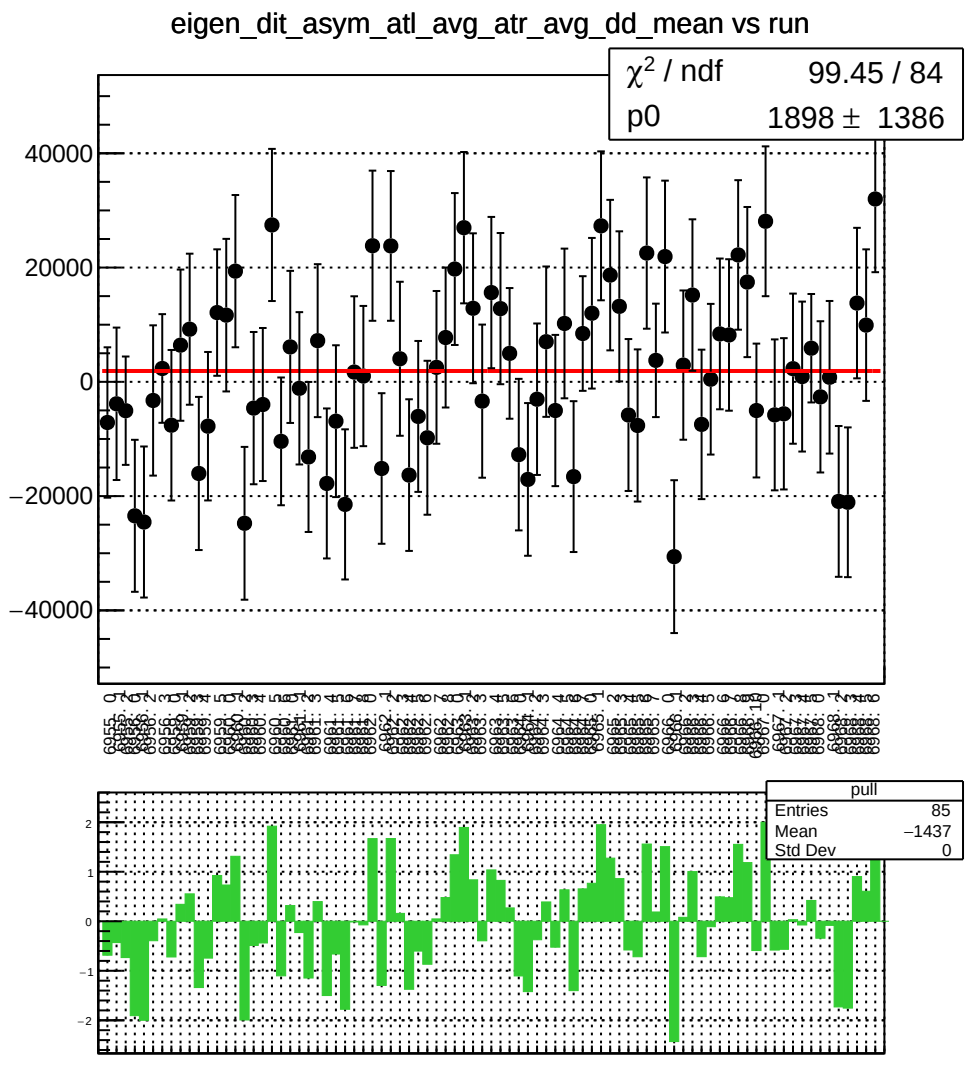

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.45 / 84
p0 1898 ± 1386
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1437
Std Dev 0
2
1
0
−1
−2

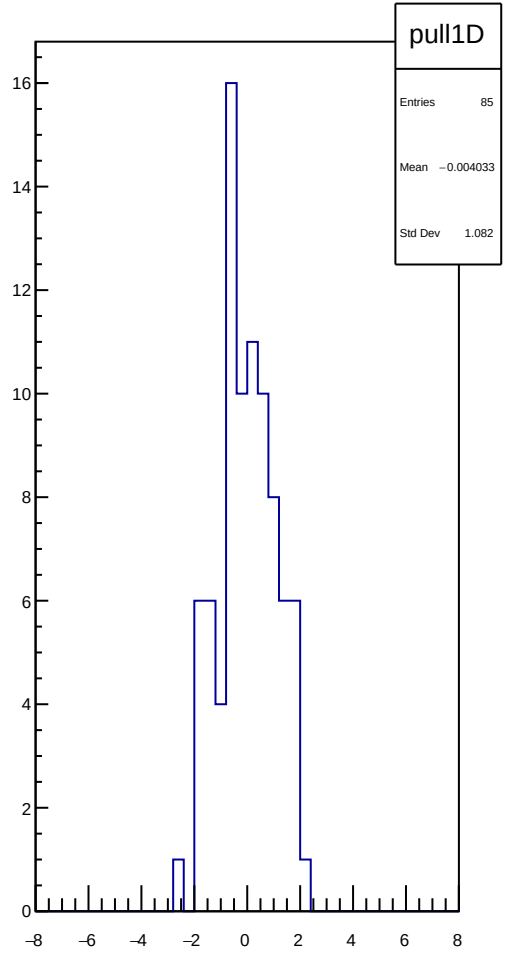

pull1D
Entries 85
Mean −0.004033
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

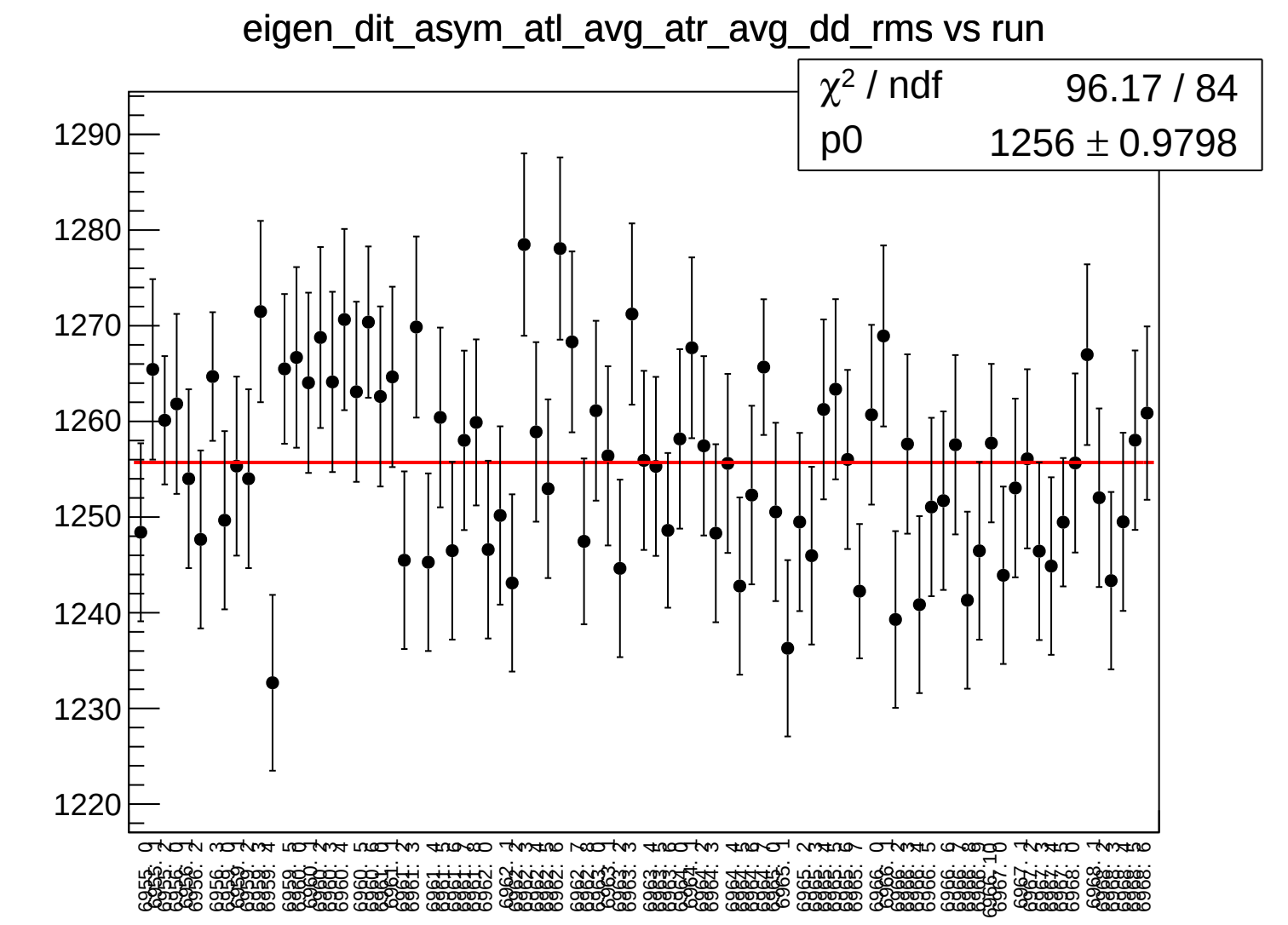

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 96.17 / 84
p0 1256 ± 0.9798
1290
1280
1270
1260
1250
1240
1230
1220

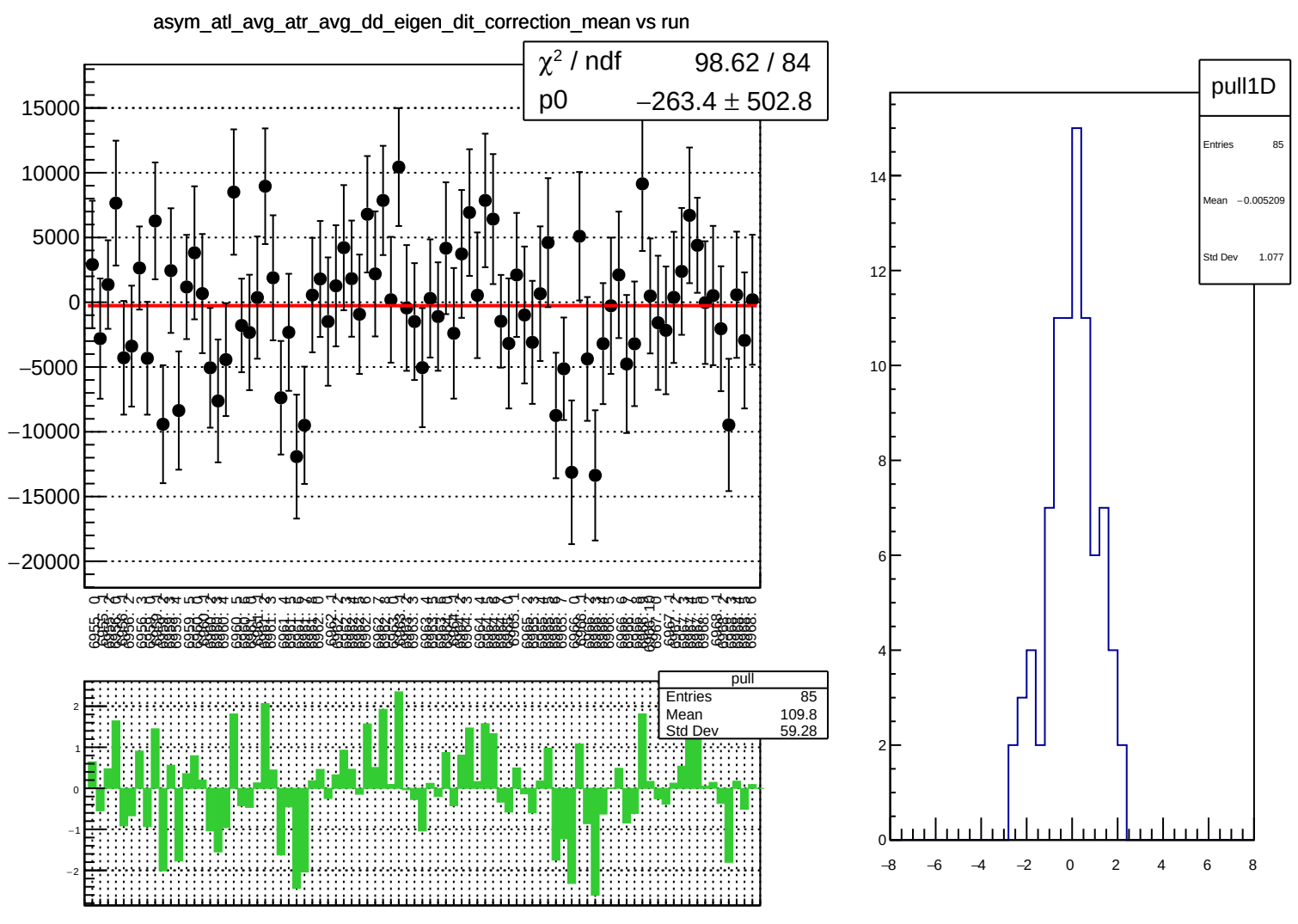

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 98.62 / 84
p0 −263.4 ± 502.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 109.8
Std Dev 59.28
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.005208
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

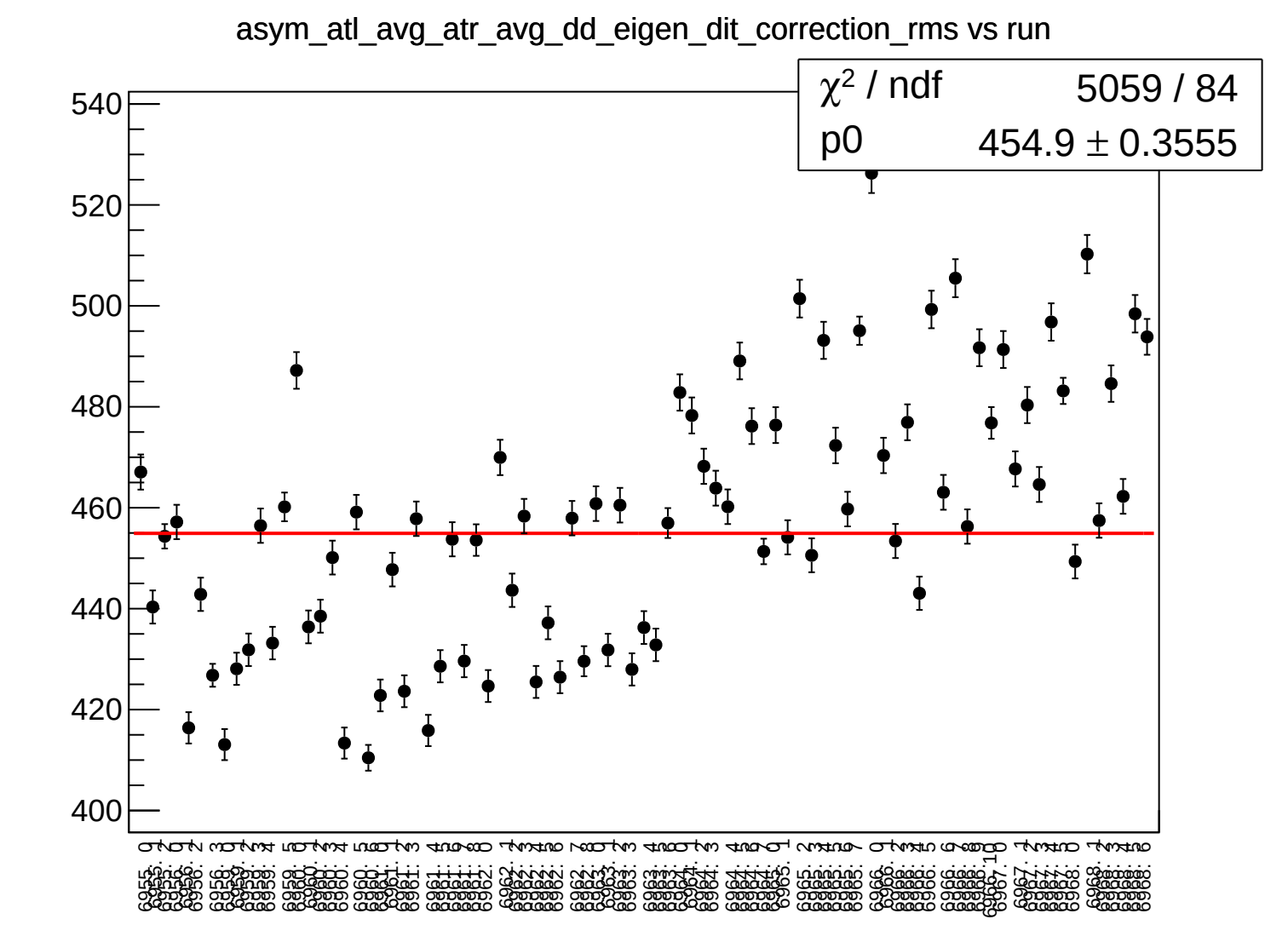

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 5059 / 84
p0 454.9 ± 0.3555
540
520
500
480
460
440
420
400

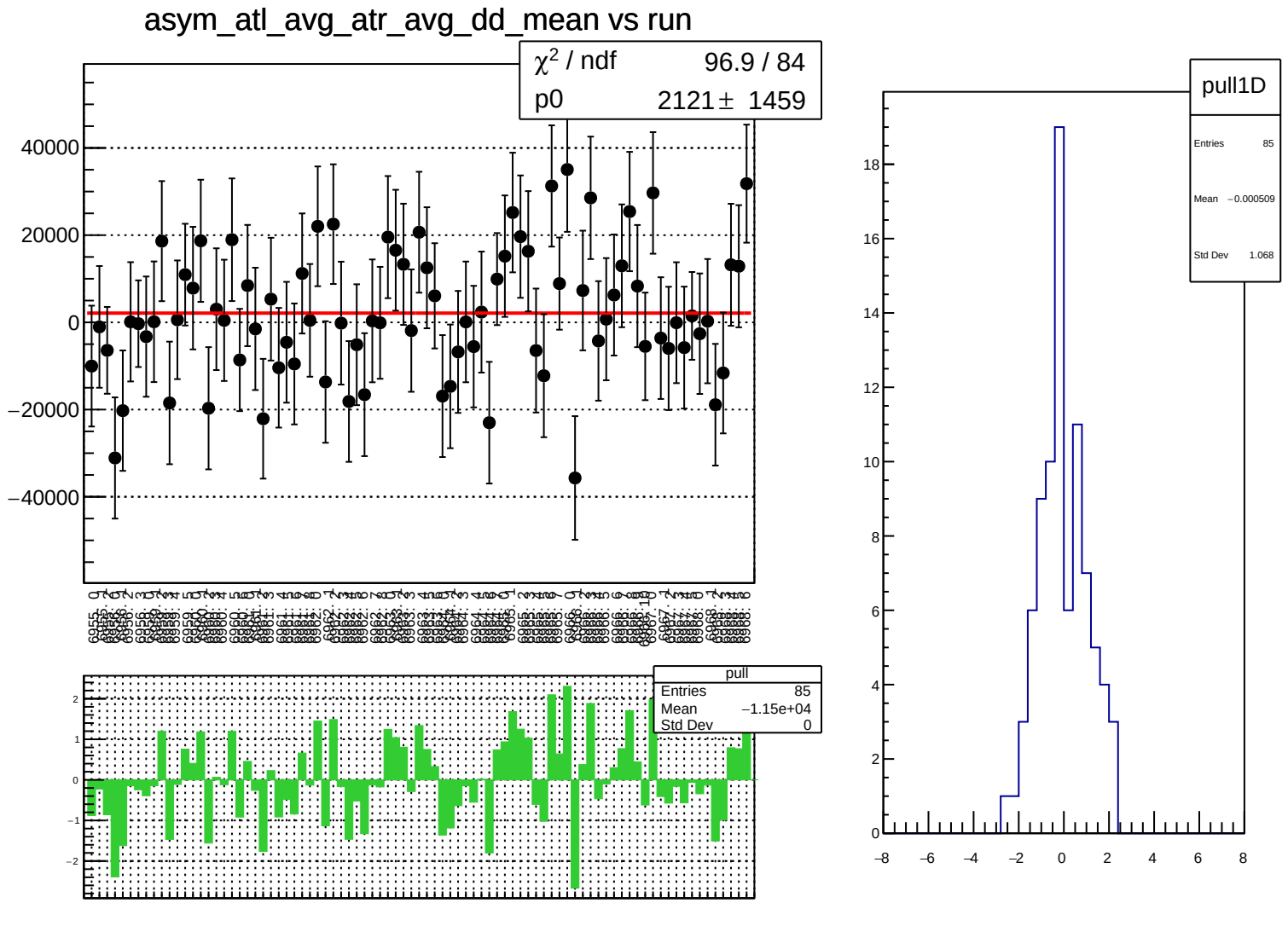

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.45 / 84
p0 1898 ± 1386
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1437
Std Dev 0
2
1
0
−1
−2

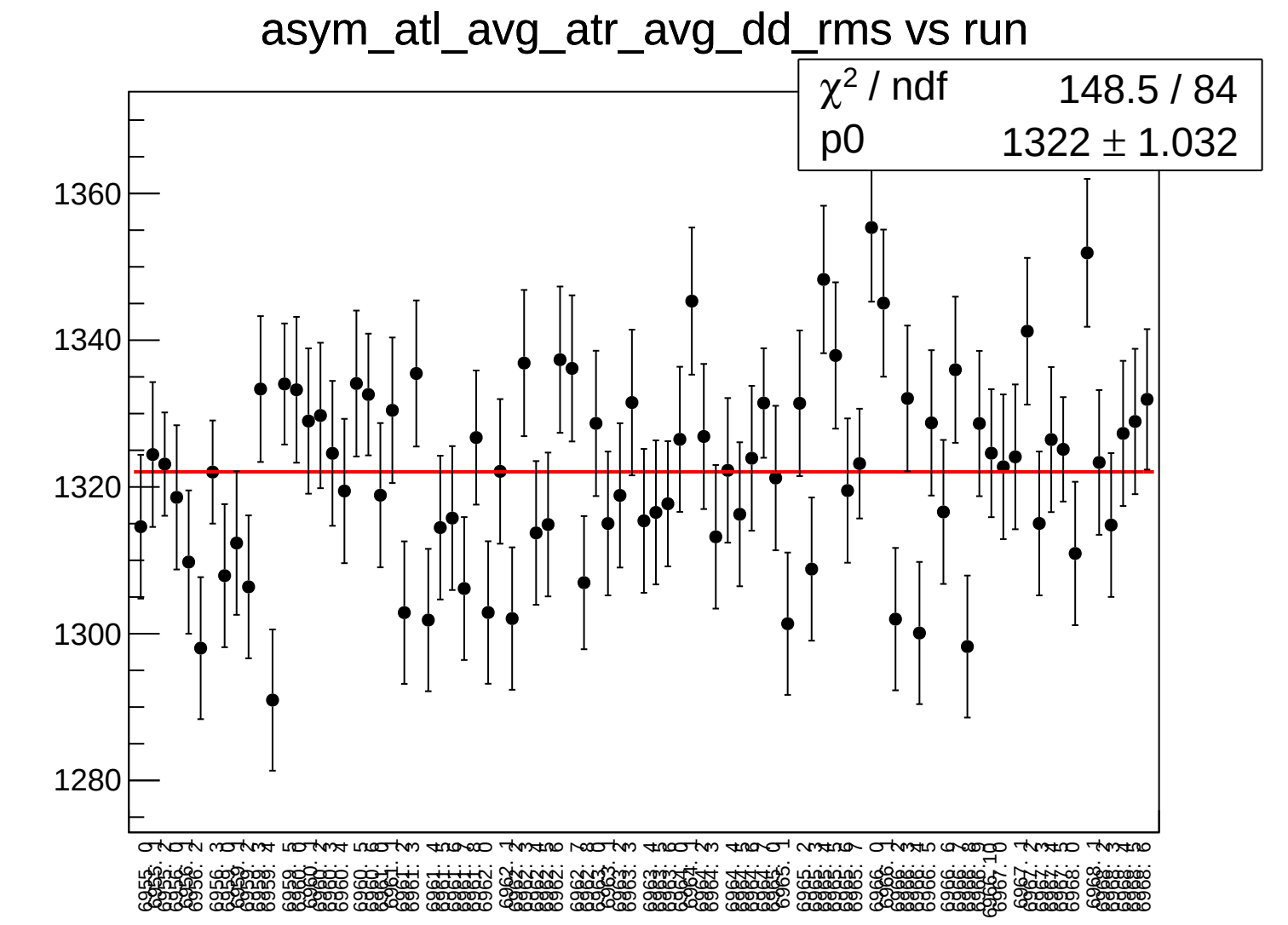

pull1D
Entries 85
Mean −0.004033
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

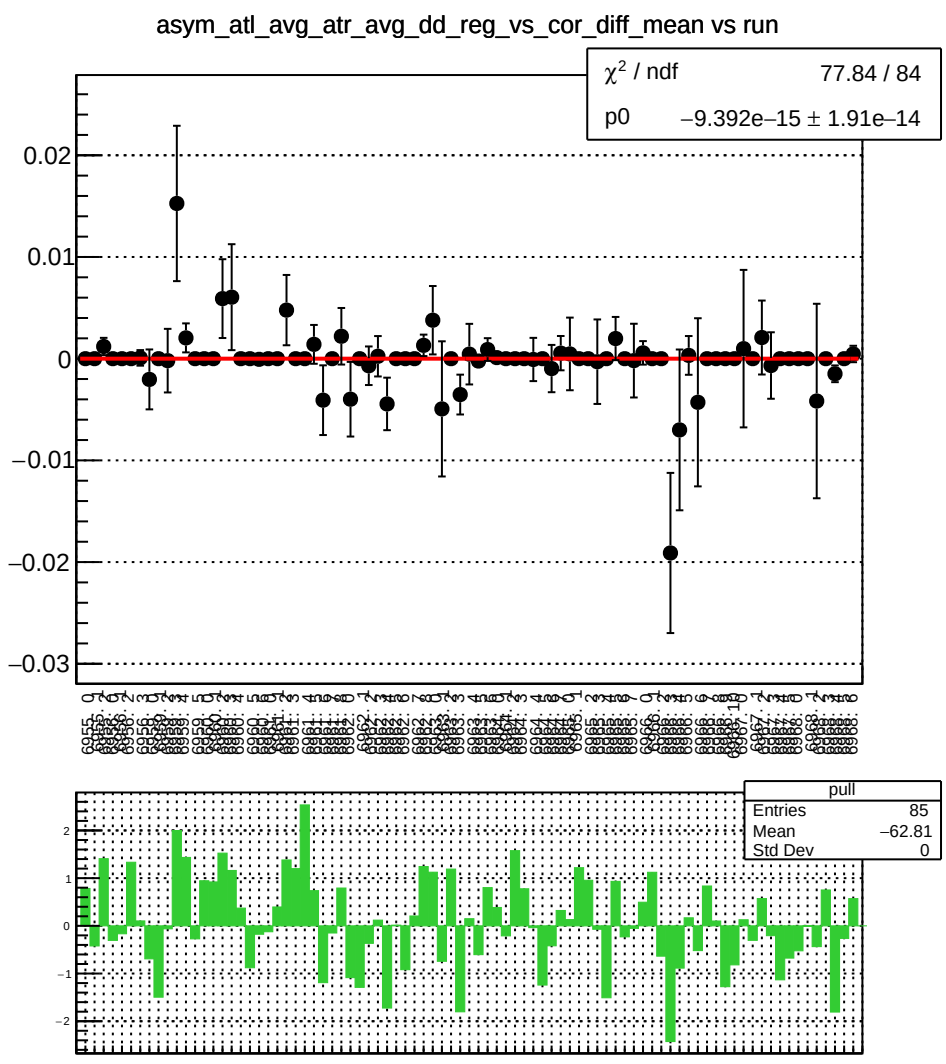

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 96.17 / 84
p0 1256 ± 0.9798
1290
1280
1270
1260
1250
1240
1230
1220

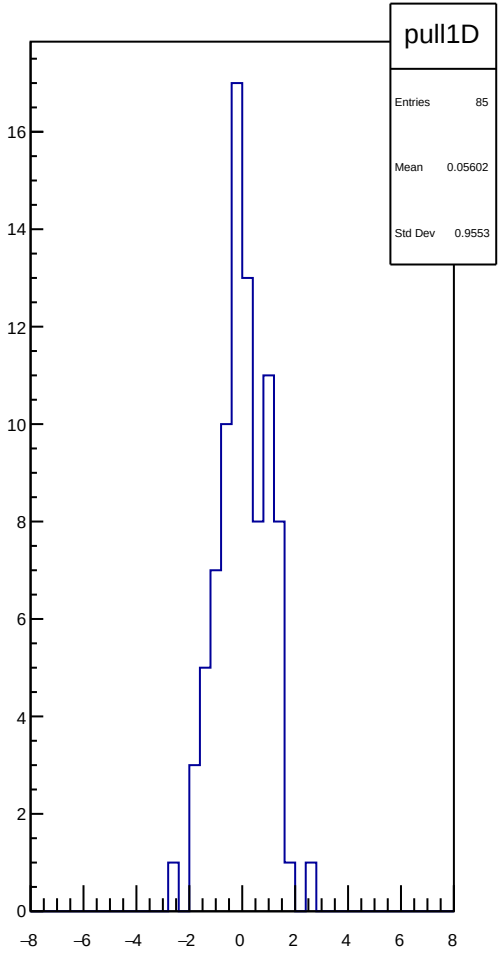

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.62 / 84
p0 −263.4 ± 502.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 109.8
Std Dev 59.28
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.005209
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

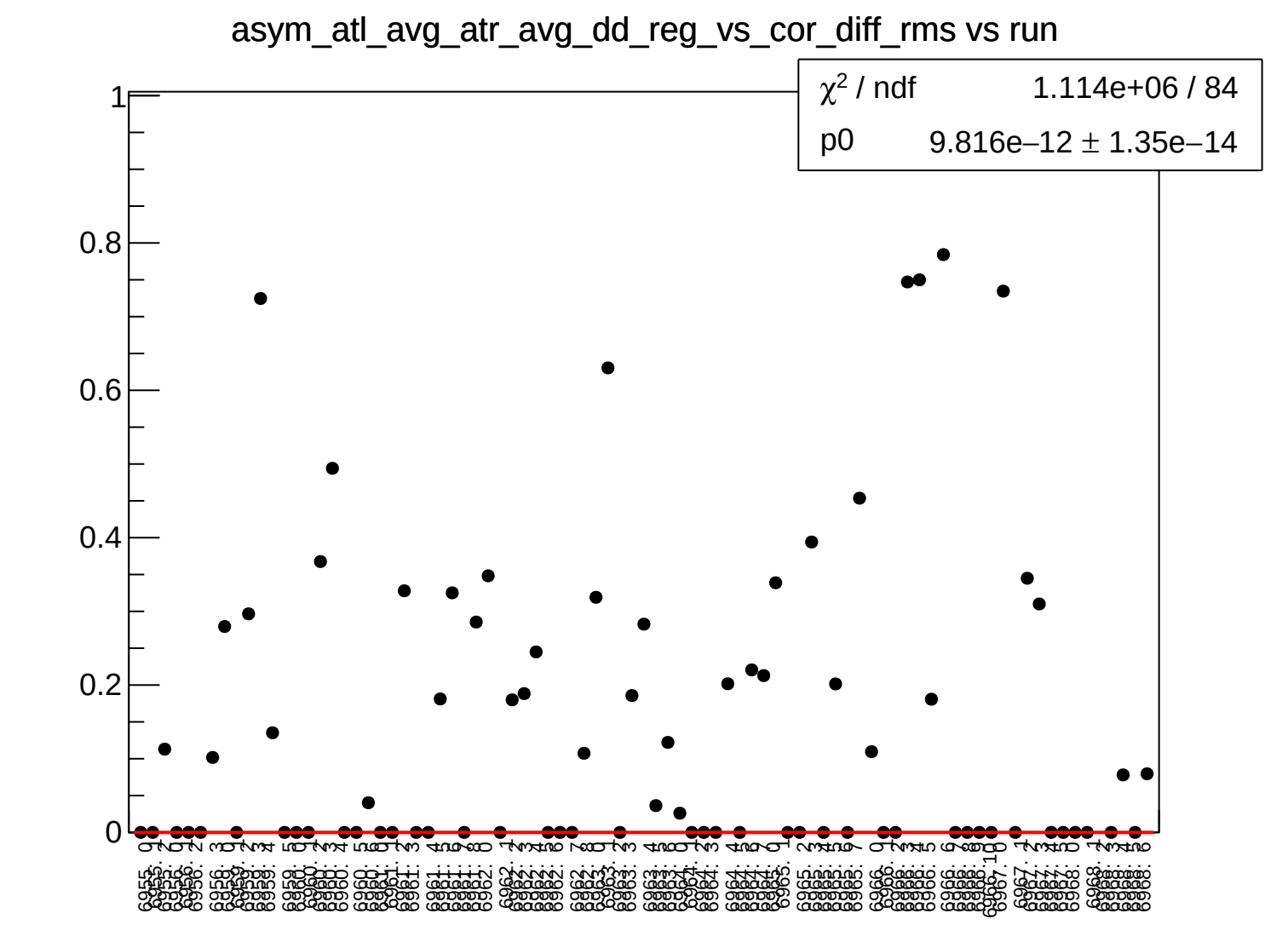

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5059 / 84
p0 454.9 ± 0.3555
540
520
500
480
460
440
420
400

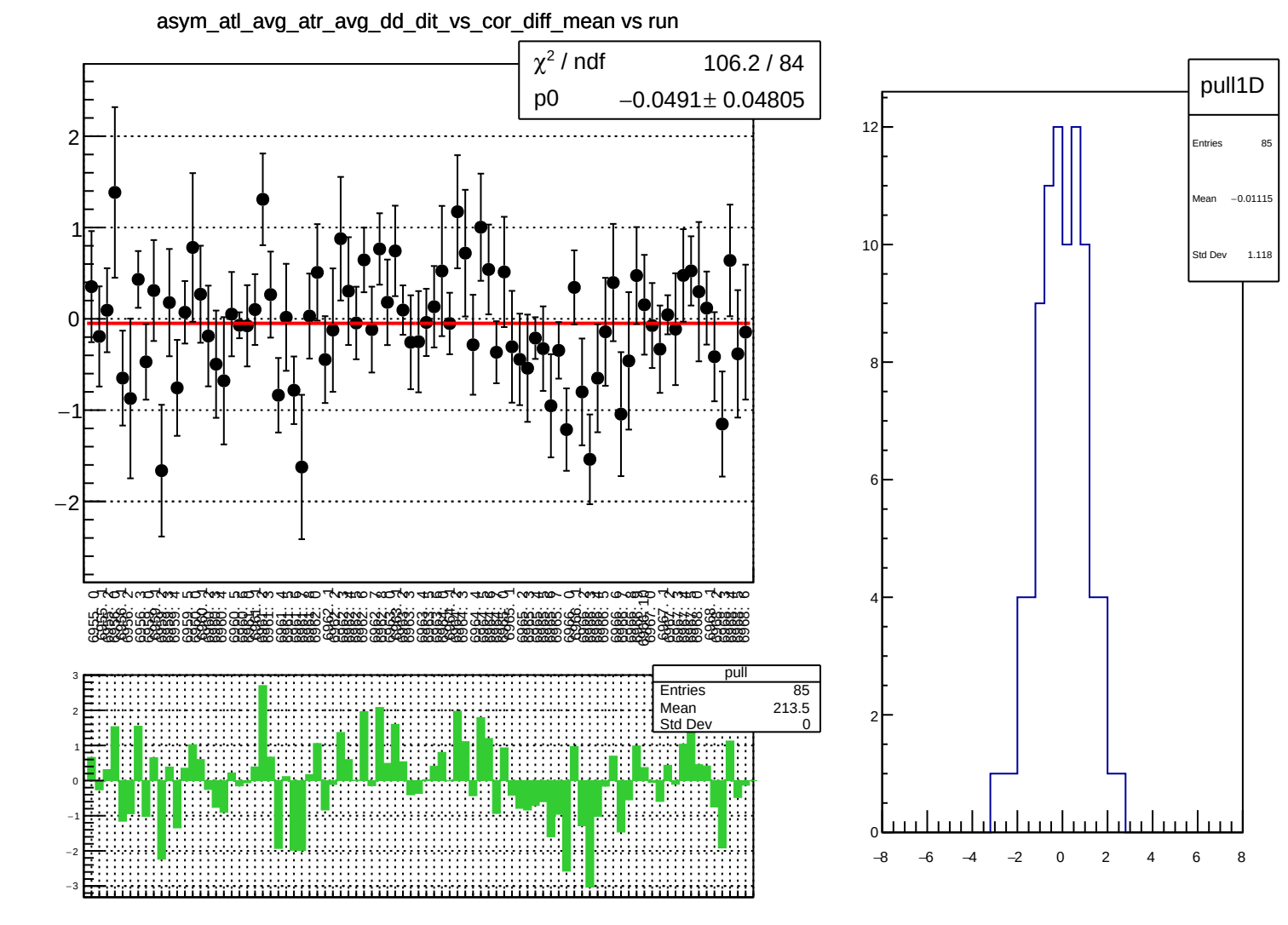

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.9 / 84
p0 2121 ± 1459
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1.15e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.000509
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

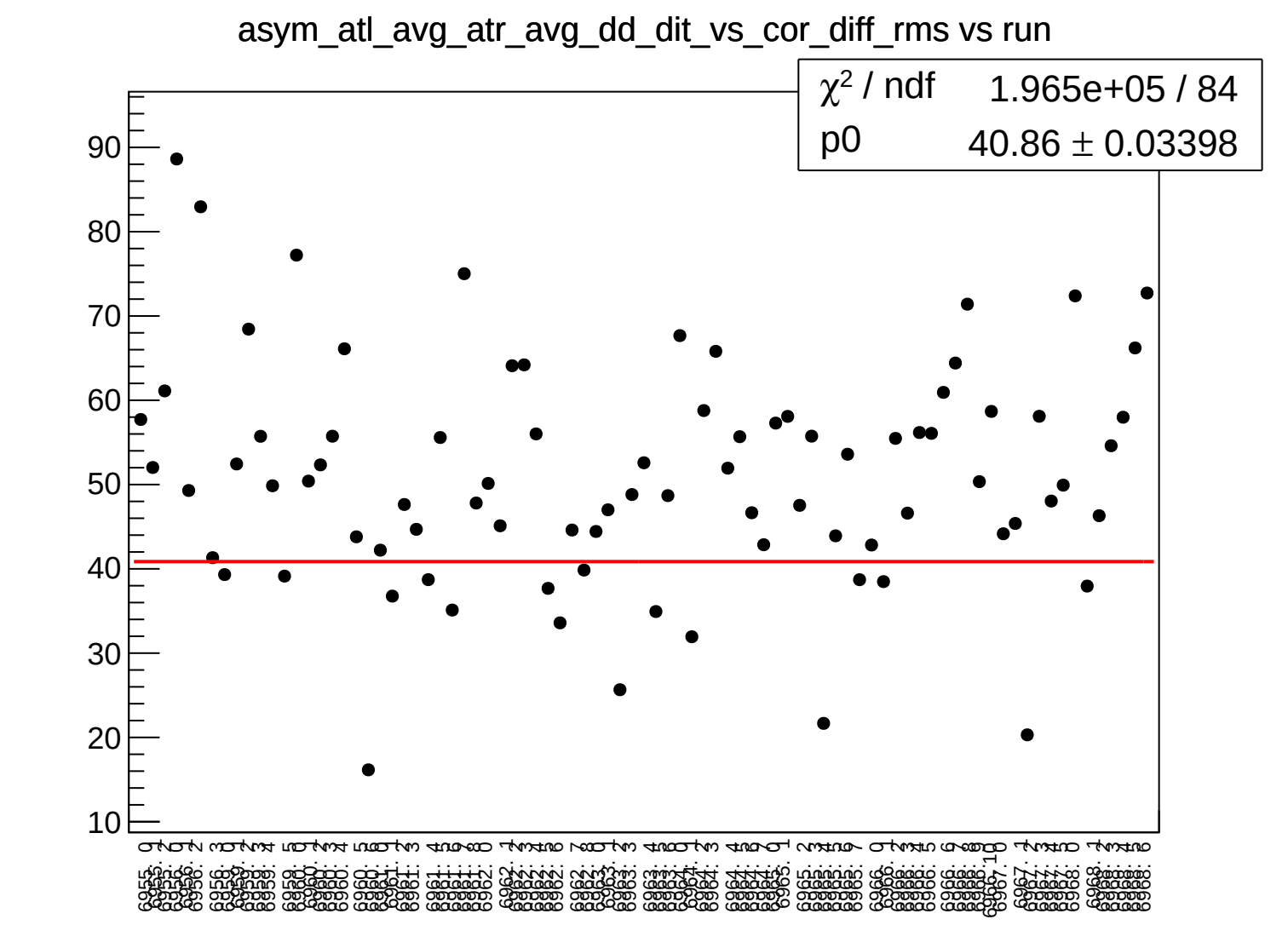

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 148.5 / 84
p0 1322 ± 1.032
1360
1340
1320
1300
1280

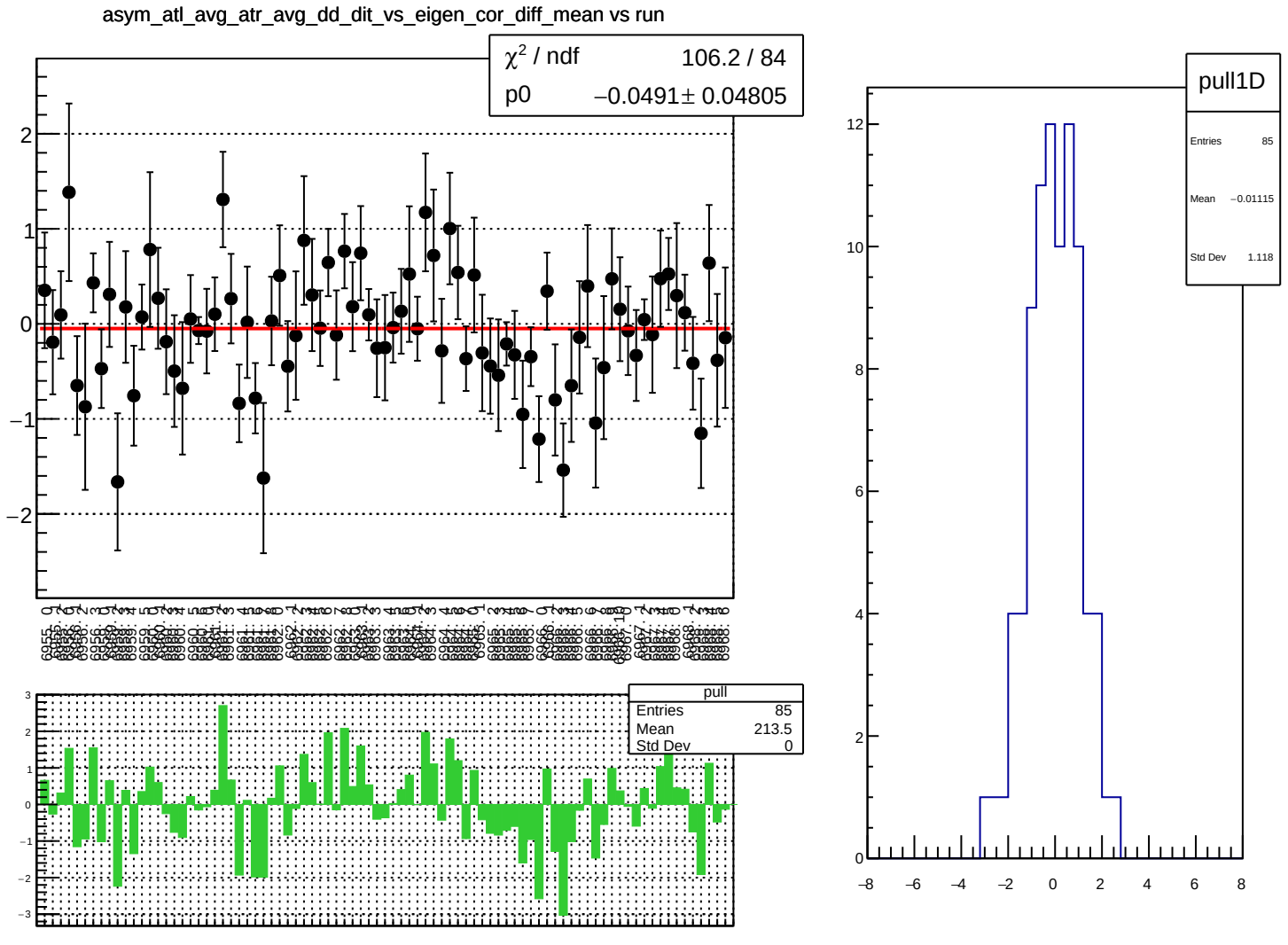

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.84 / 84
p0 −9.392e−15 ± 1.91e−14
pull
Entries 85
Mean −62.81
Std Dev 0

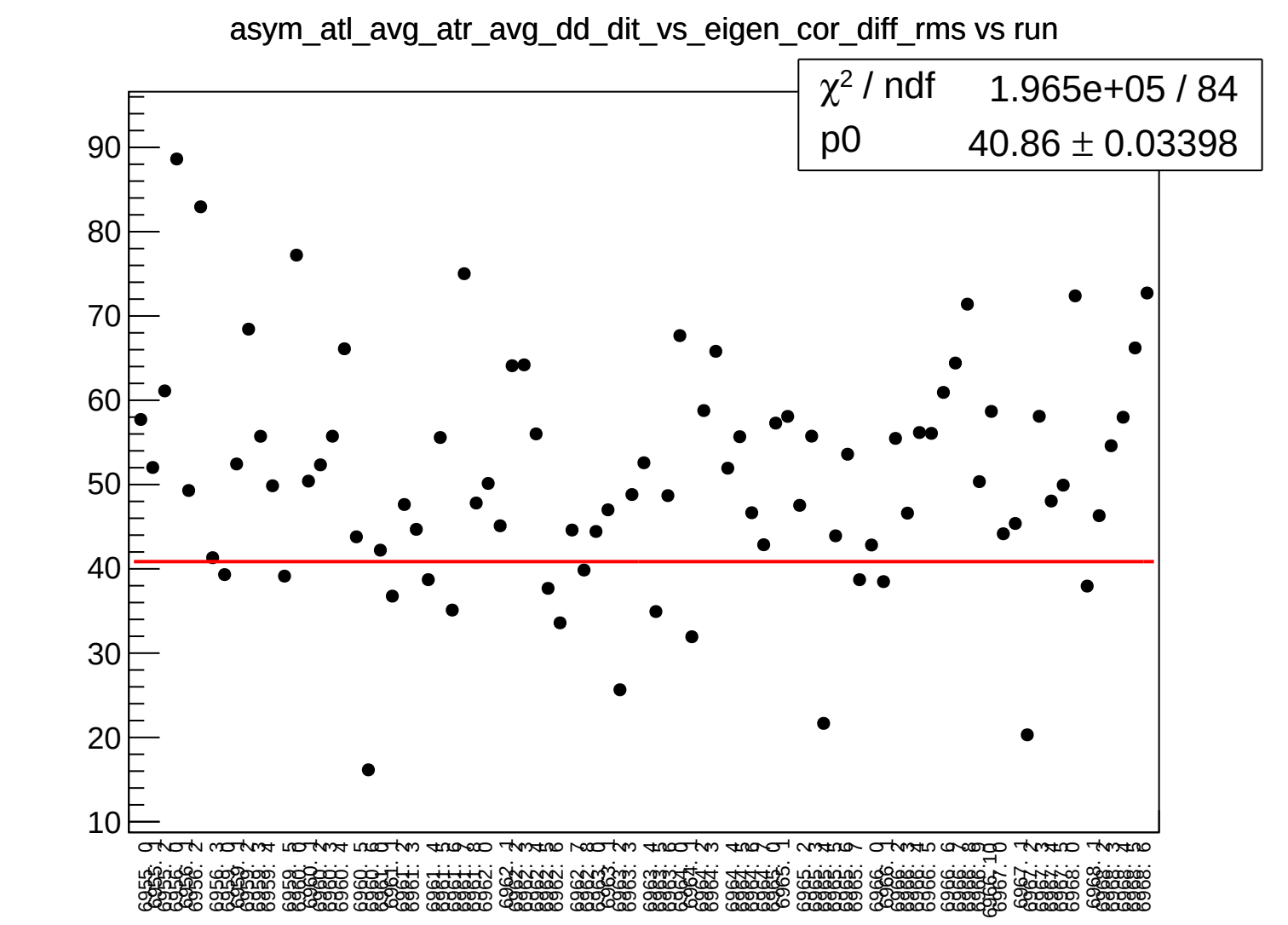

pull1D
Entries 85
Mean 0.05602
Std Dev 0.9553

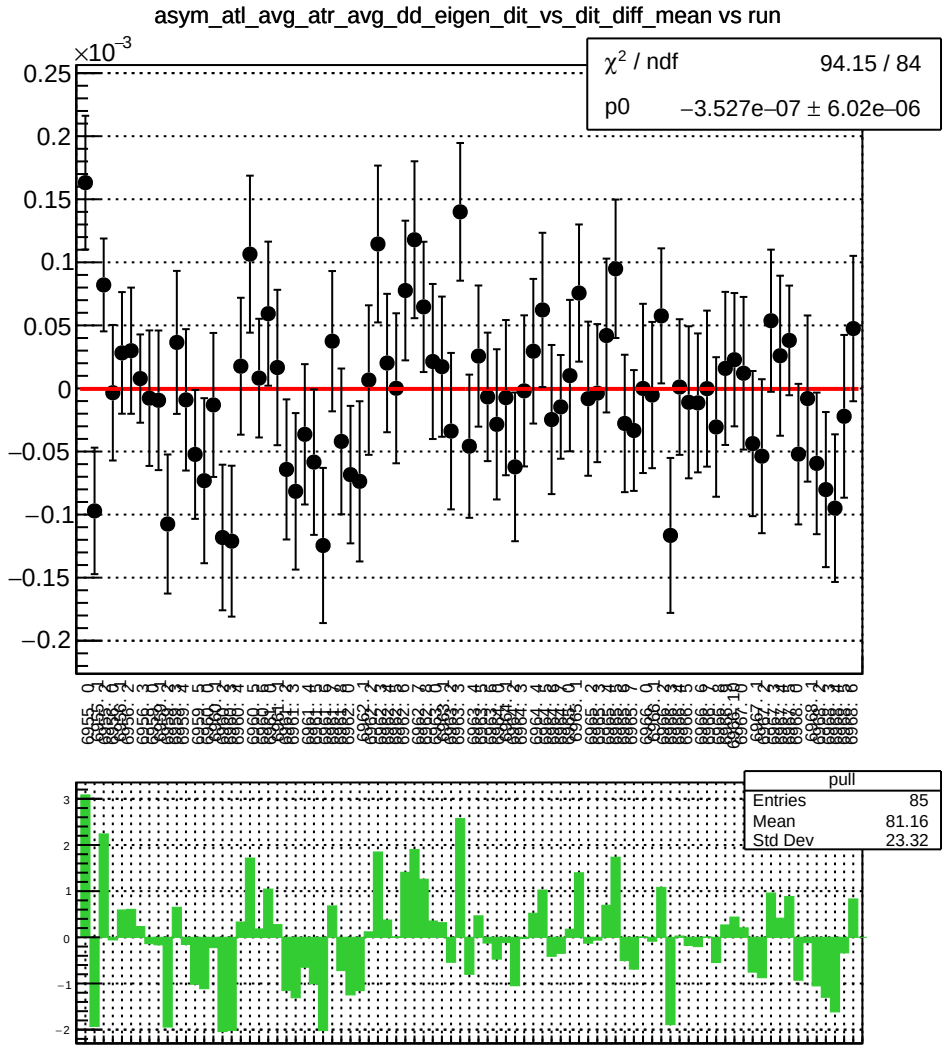

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.114e+06 / 84
p0 9.816e−12 ± 1.35e−14
1
0.8
0.6
0.4
0.2
0

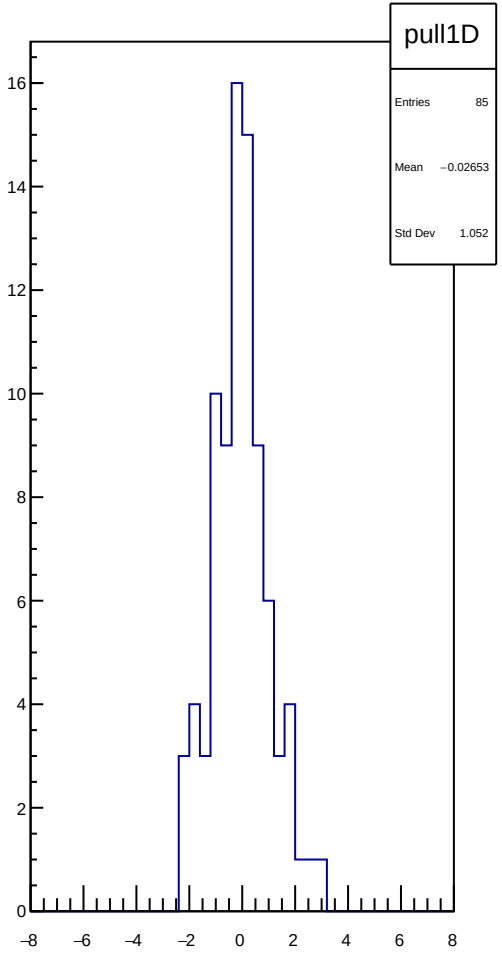

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 84
p0 −0.0491± 0.04805
pull
Entries 85
Mean 213.5
Std Dev 0
pull1D
Entries 85
Mean −0.01115
Std Dev 1.118

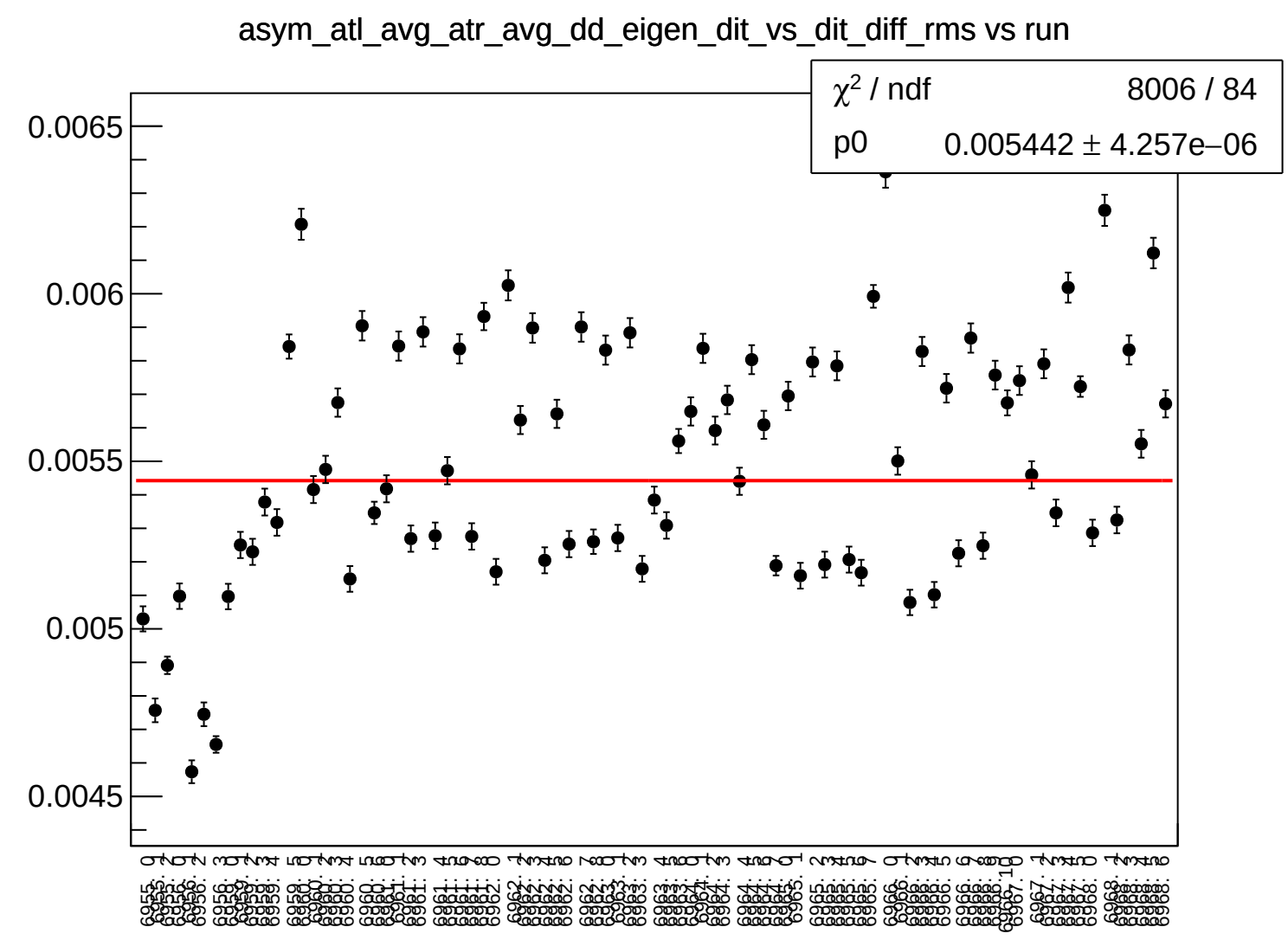

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 84
p0 40.86 ± 0.03398
90
80
70
60
50
40
30
20
10

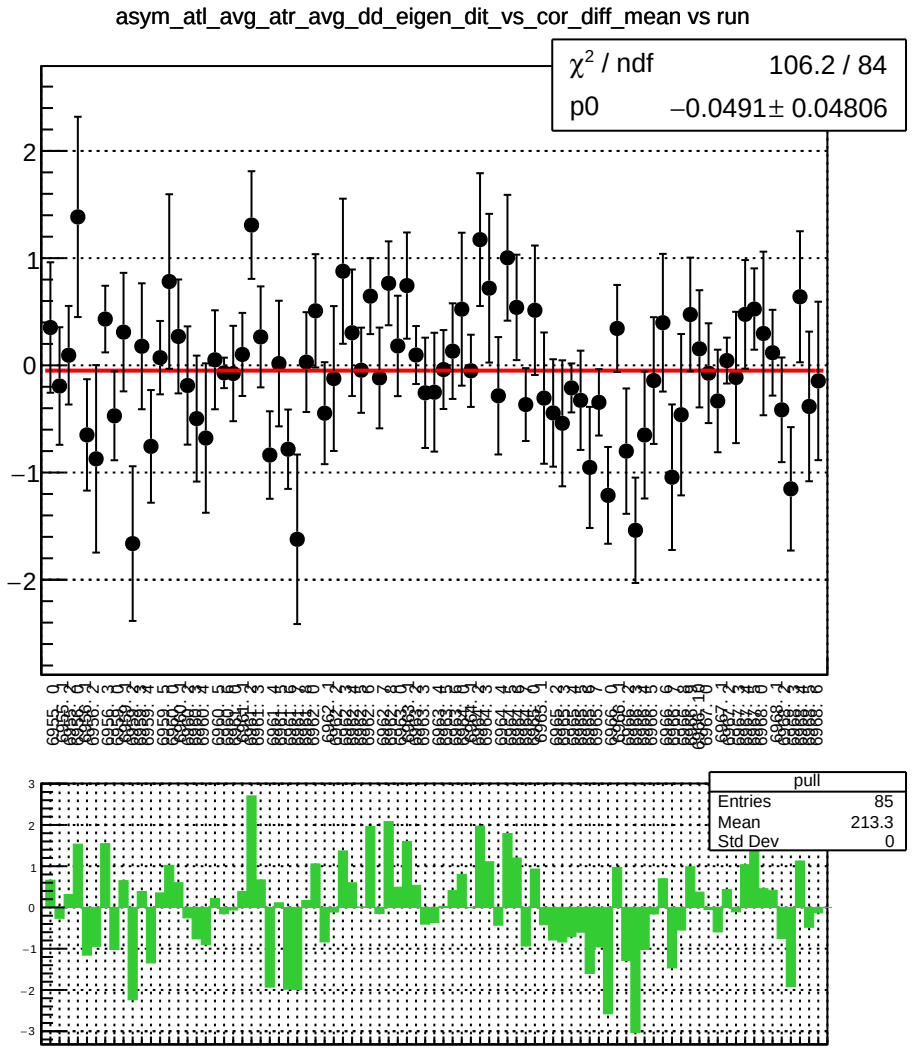

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 84
p0 −0.0491± 0.04805
pull
Entries 85
Mean 213.5
Std Dev 0
pull1D
Entries 85
Mean −0.01115
Std Dev 1.118

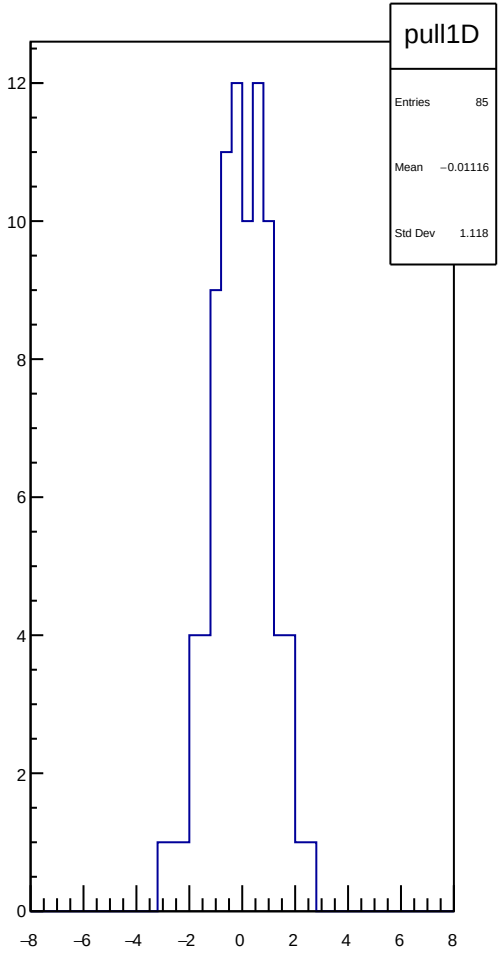

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 84
p0 40.86 ± 0.03398
90
80
70
60
50
40
30
20
10

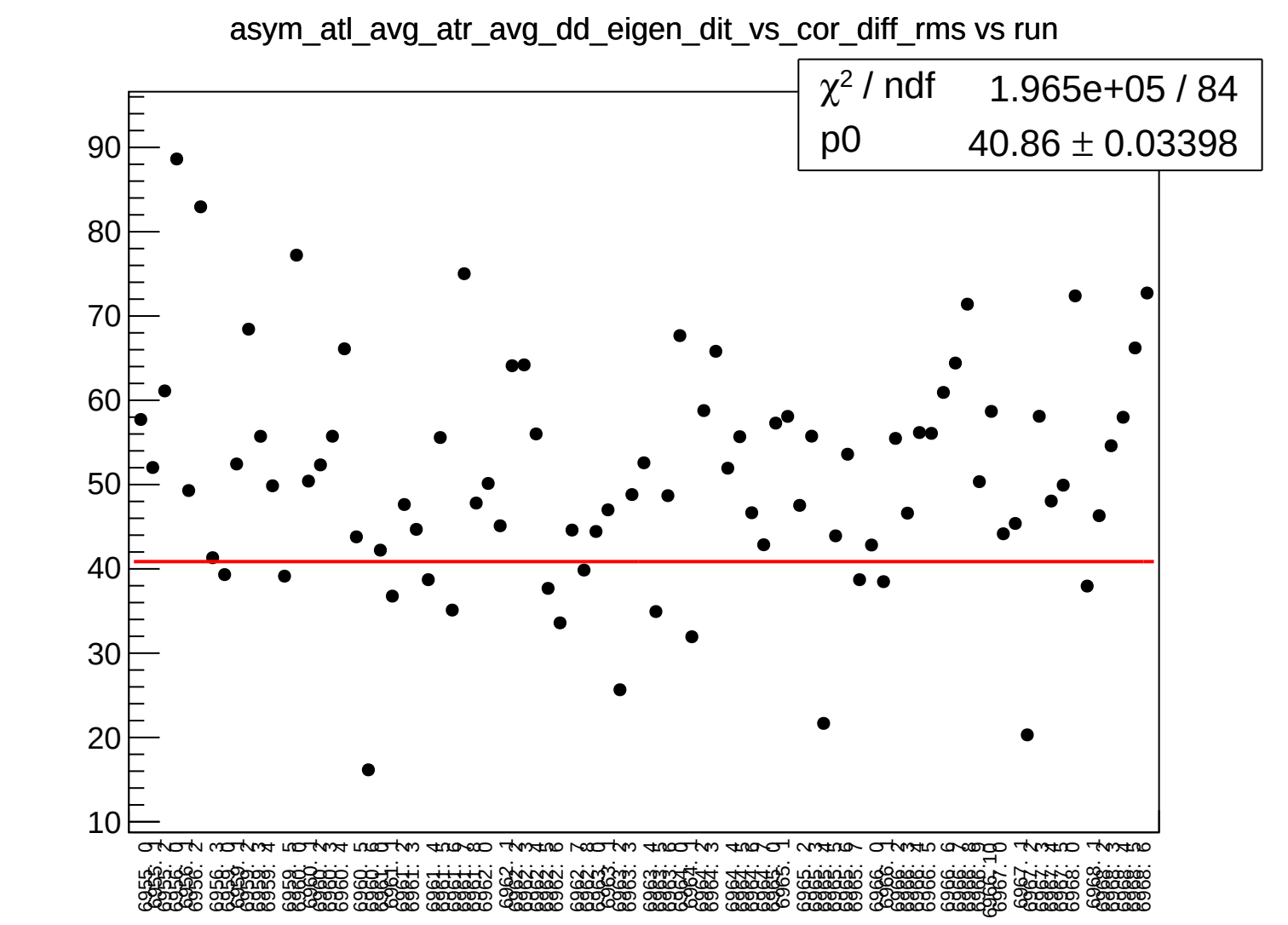

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.15 / 84
p0 −3.527e−07 ± 6.02e−06
pull
Entries 85
Mean 81.16
Std Dev 23.32

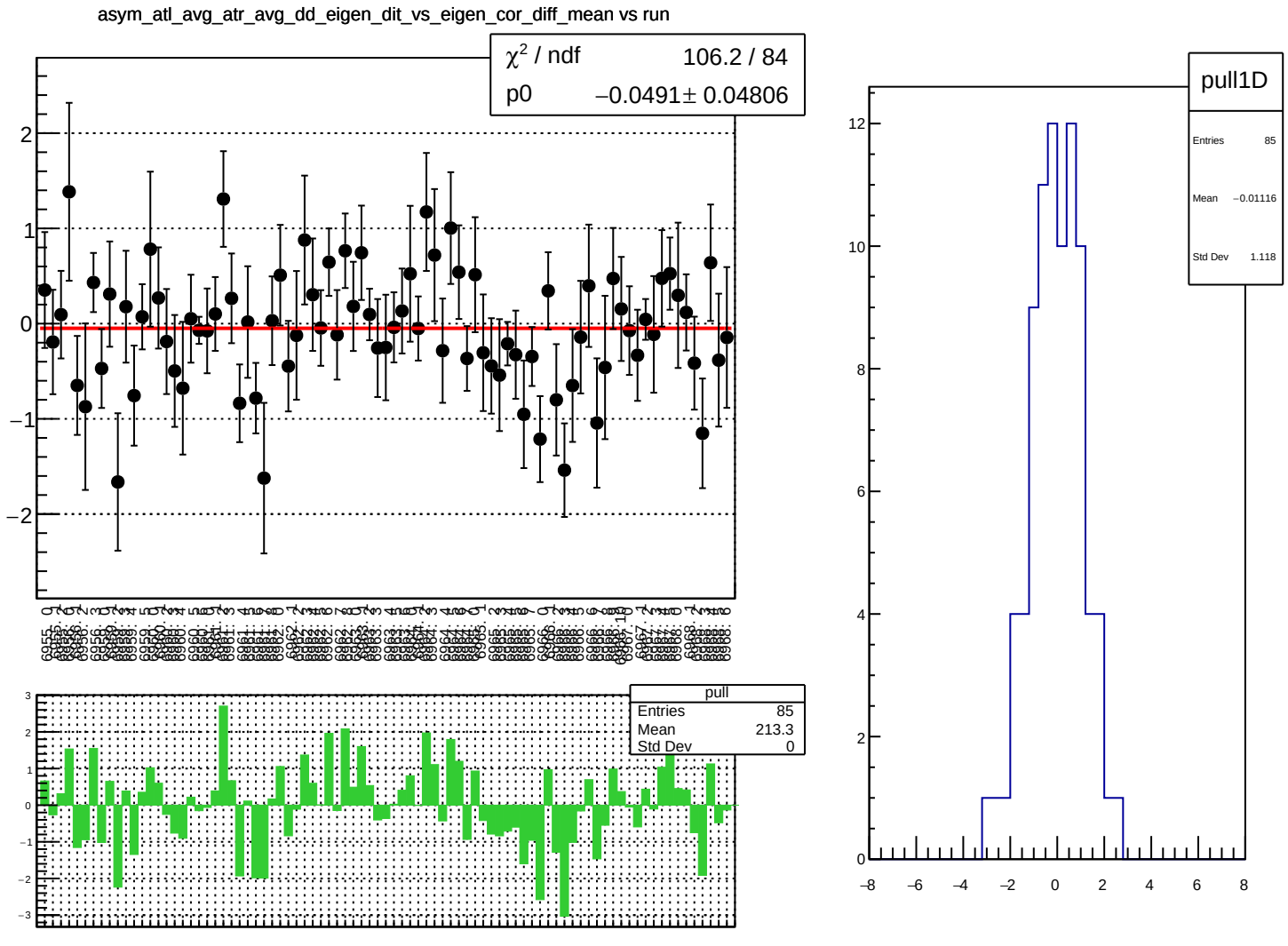

pull1D
Entries 85
Mean −0.02653
Std Dev 1.052

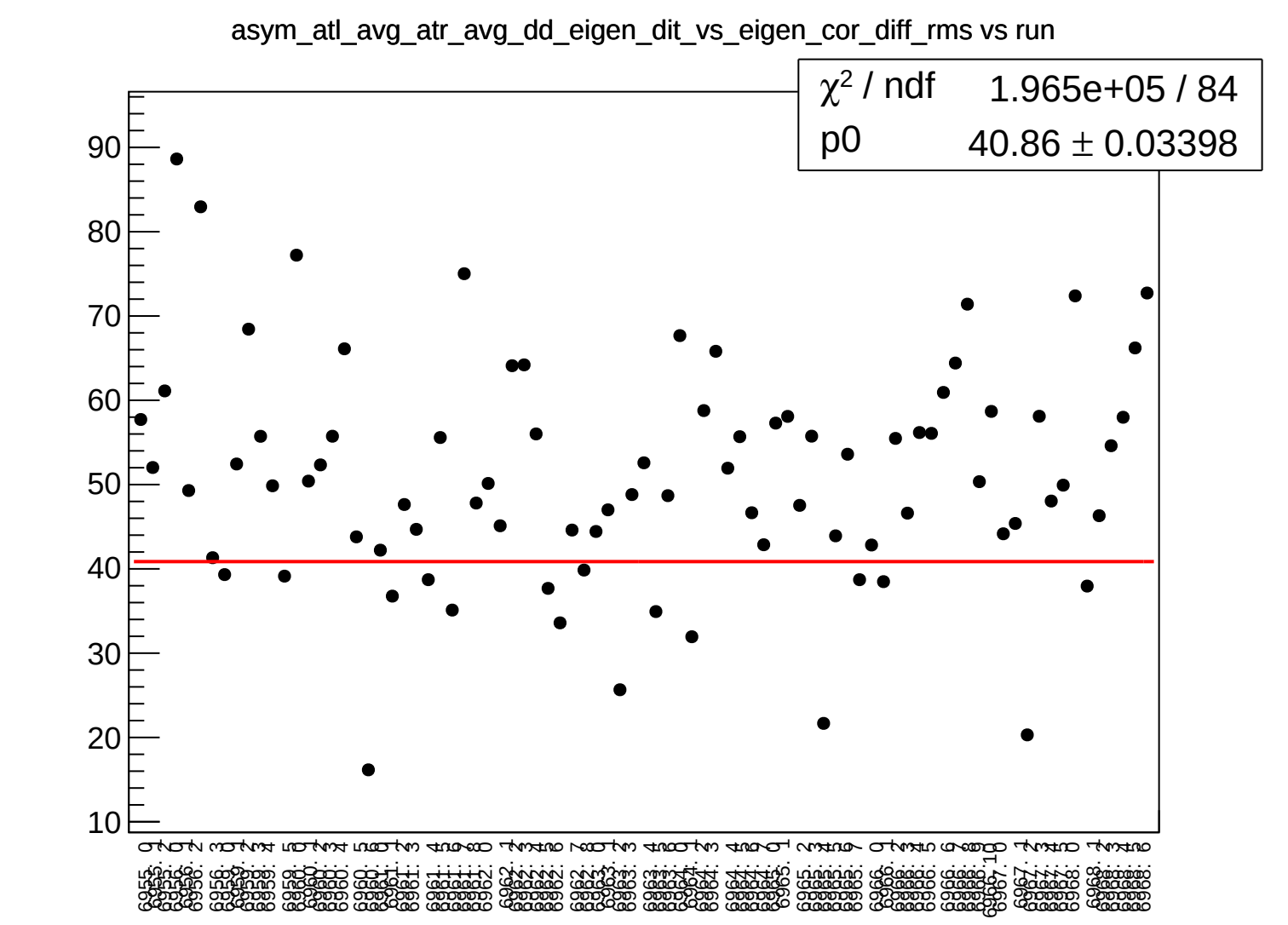

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8006 / 84
p0 0.005442 ± 4.257e−06
0.0065
0.006
0.0055
0.005
0.0045

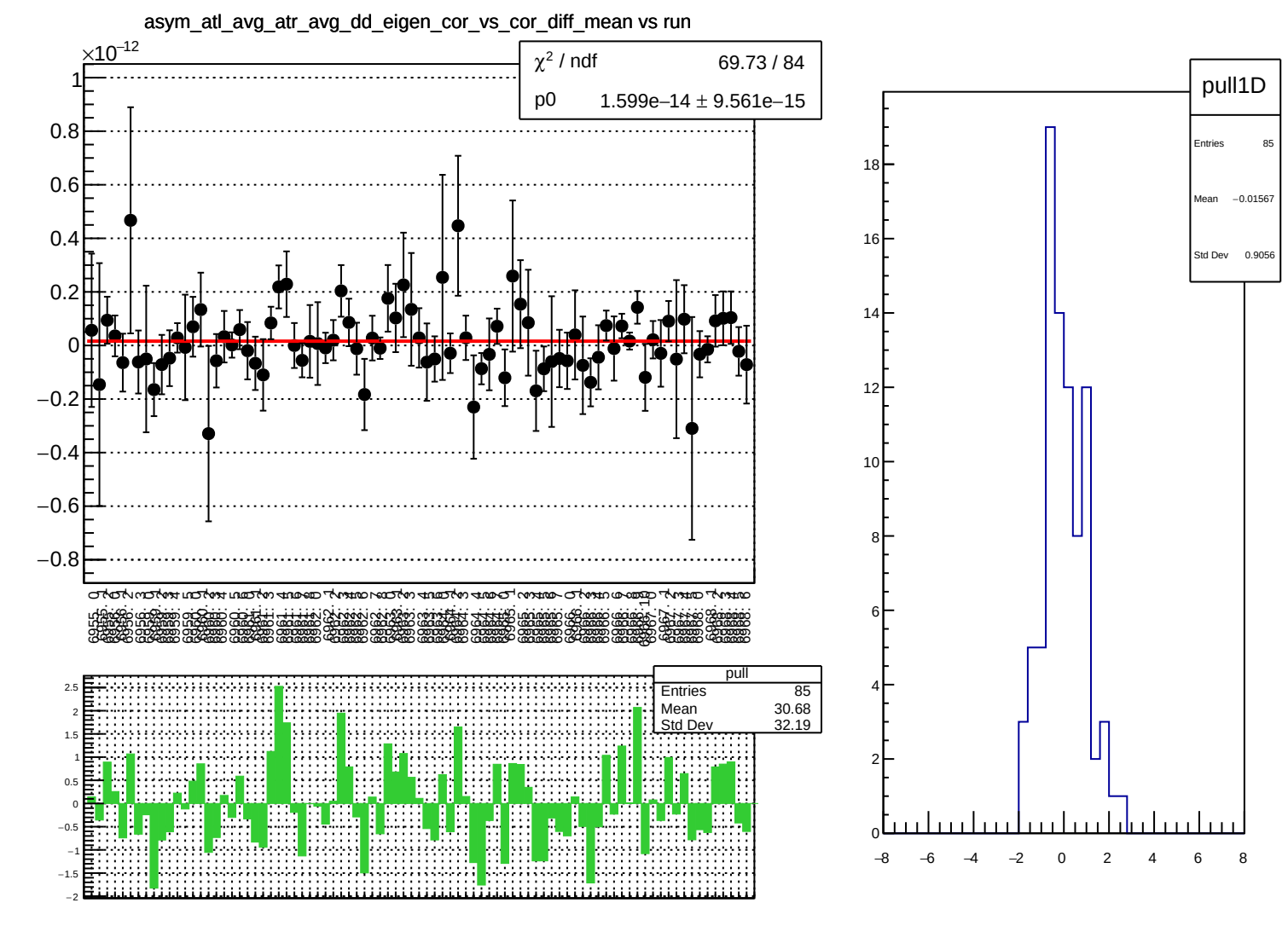

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 84
p0 −0.0491± 0.04806
pull
Entries 85
Mean 213.3
Std Dev 0

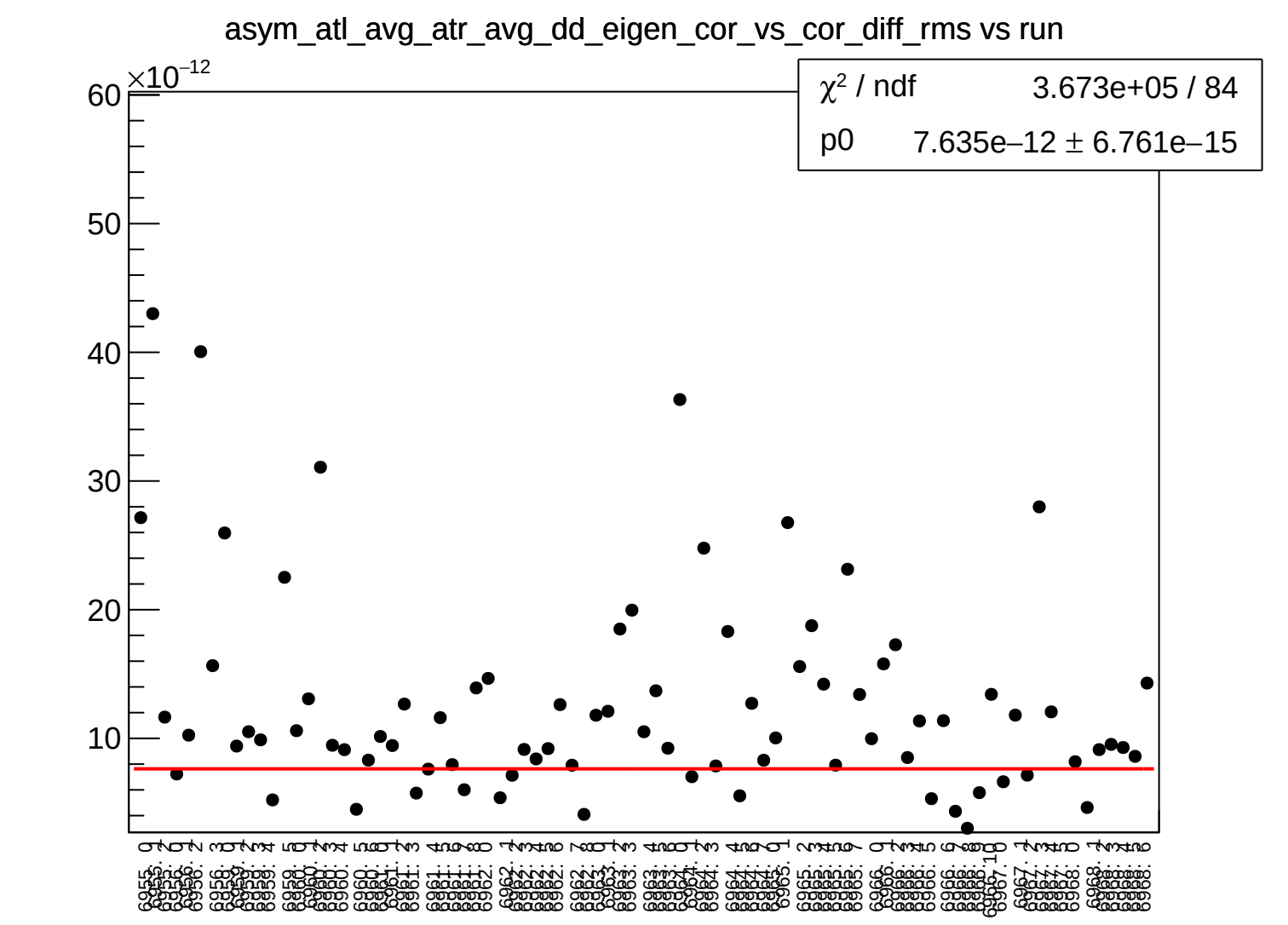

pull1D
Entries 85
Mean −0.01116
Std Dev 1.118

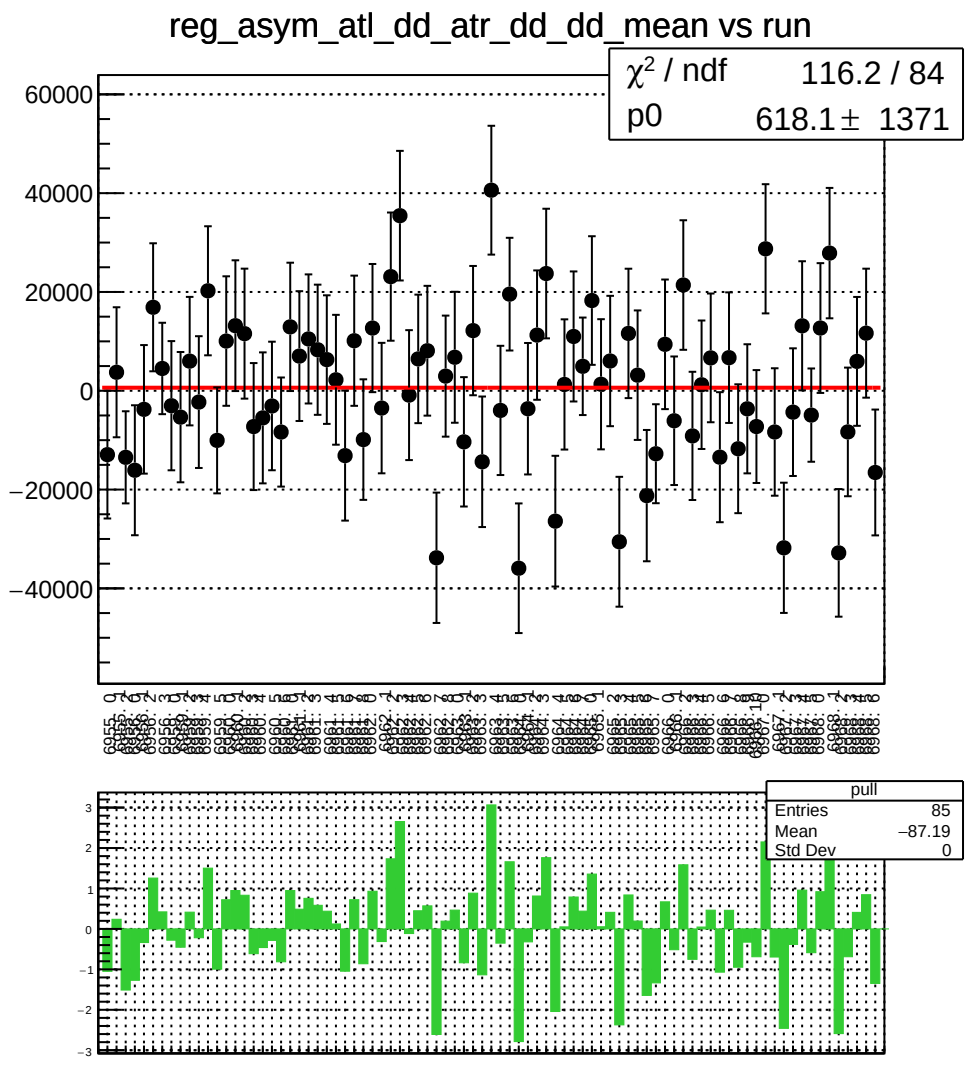

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 84
p0 40.86 ± 0.03398
90
80
70
60
50
40
30
20
10

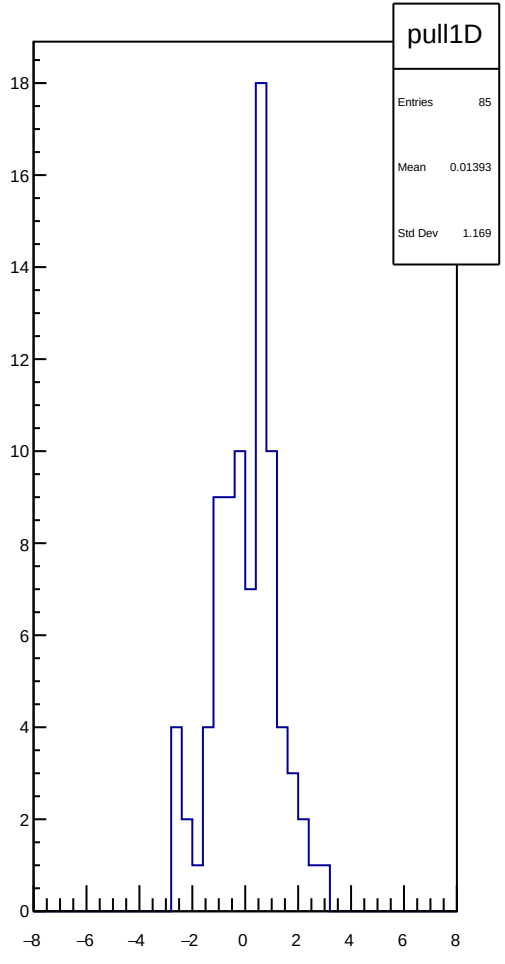

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 84
p0 −0.0491± 0.04806
pull
Entries 85
Mean 213.3
Std Dev 0
pull1D
Entries 85
Mean −0.01116
Std Dev 1.118

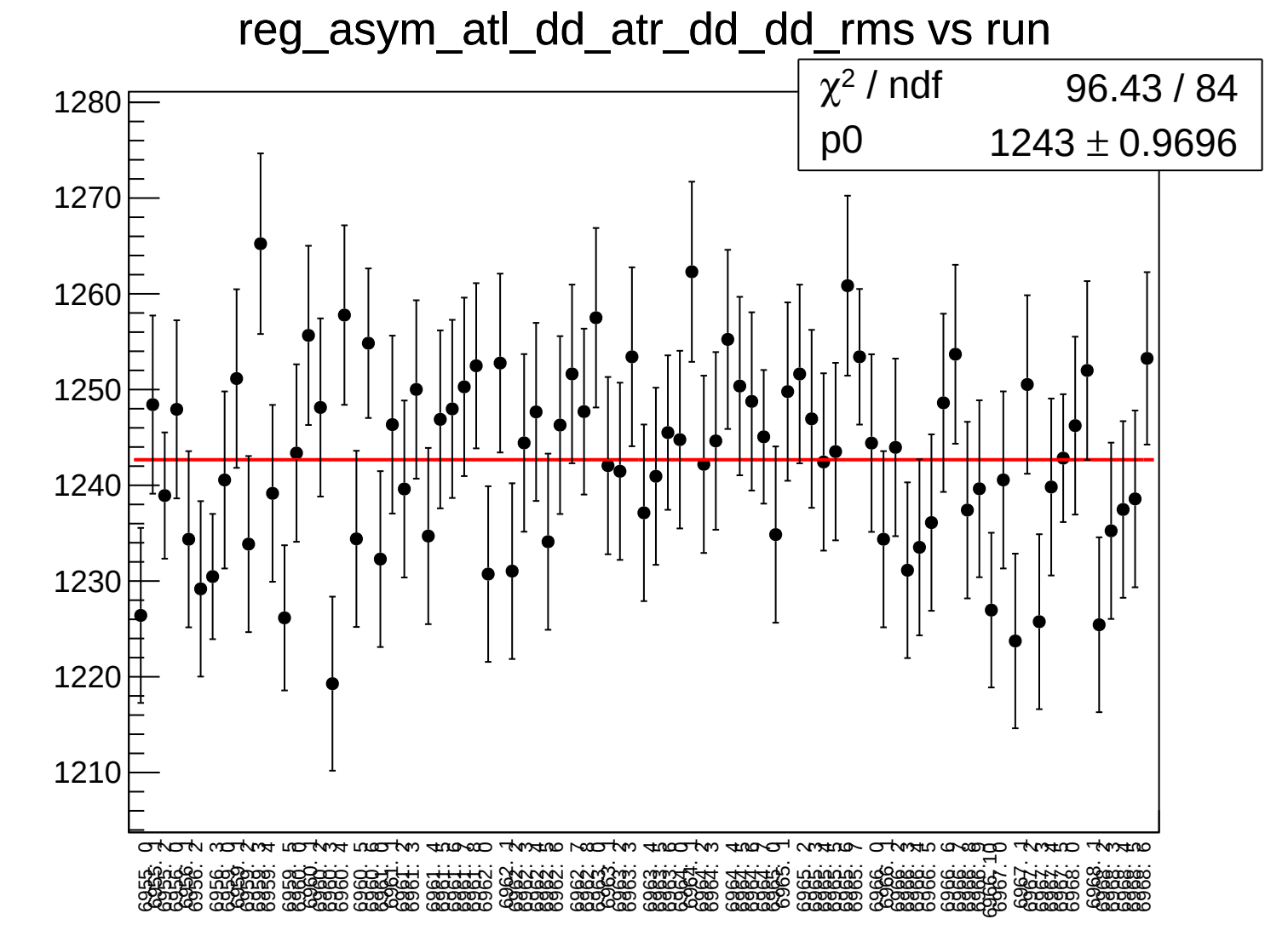

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 84
p0 40.86 ± 0.03398
90
80
70
60
50
40
30
20
10

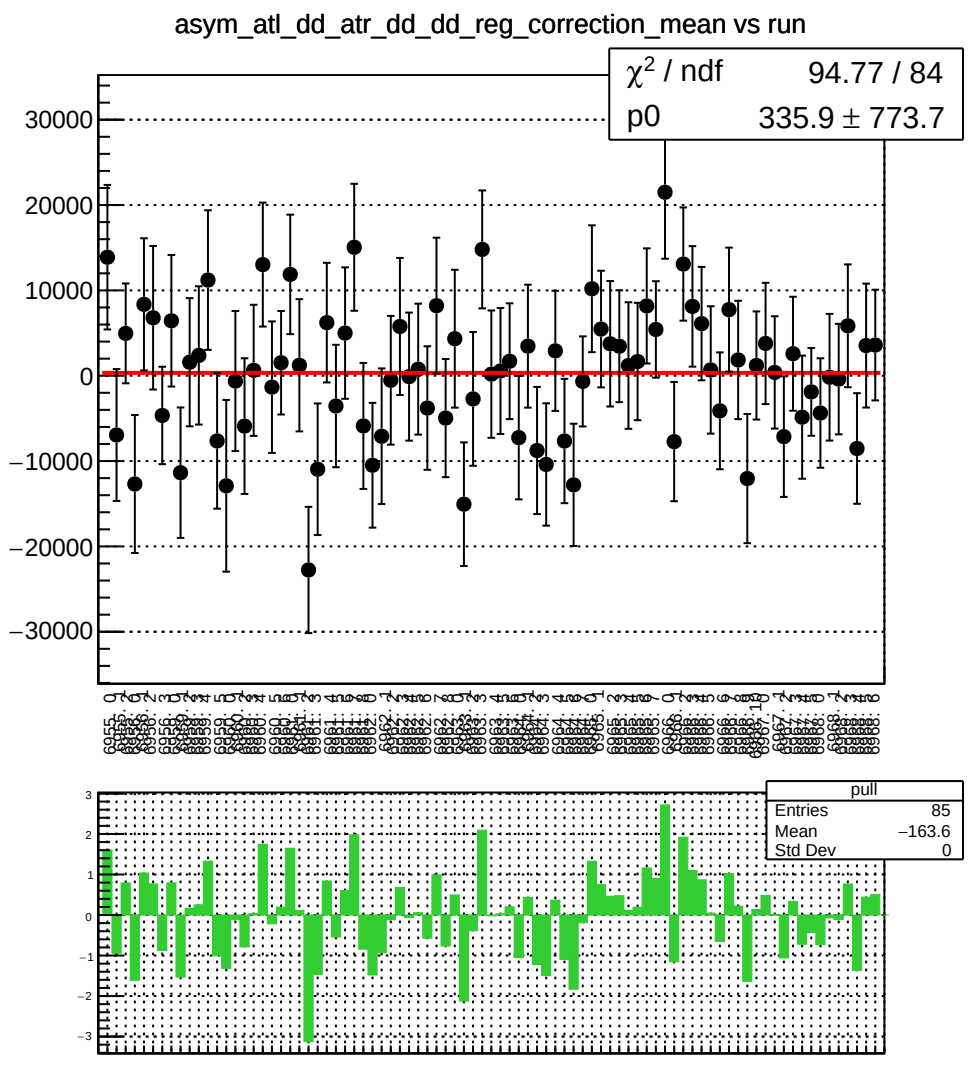

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 69.73 / 84
p0 1.599e−14 ± 9.561e−15
pull
Entries 85
Mean 30.68
Std Dev 32.19
pull1D
Entries 85
Mean −0.01567
Std Dev 0.9056

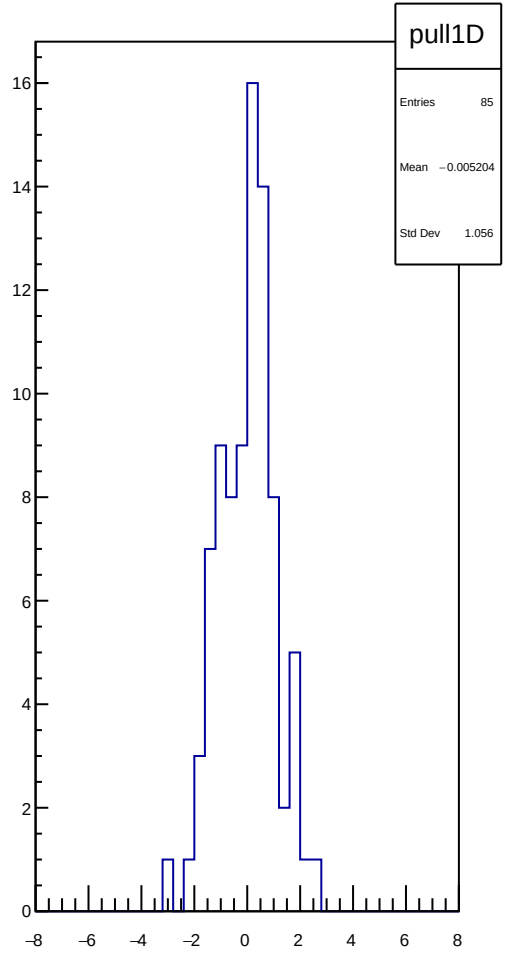

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 3.673e+05 / 84
p0 7.635e−12 ± 6.761e−15

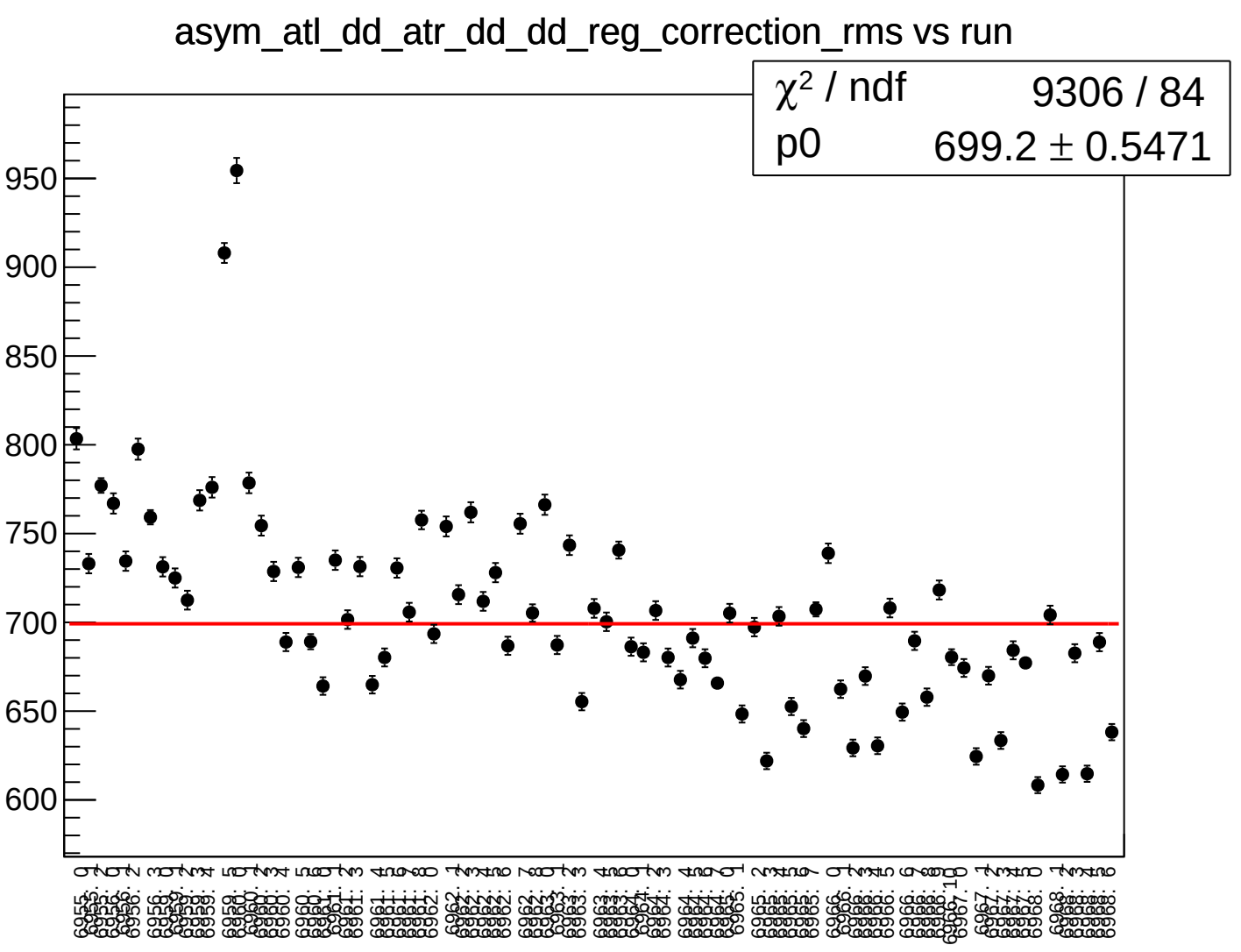

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 116.2 / 84
p0 618.1 ± 1371
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −87.19
Std Dev 0
3
2
1
0
−1
−2
−3

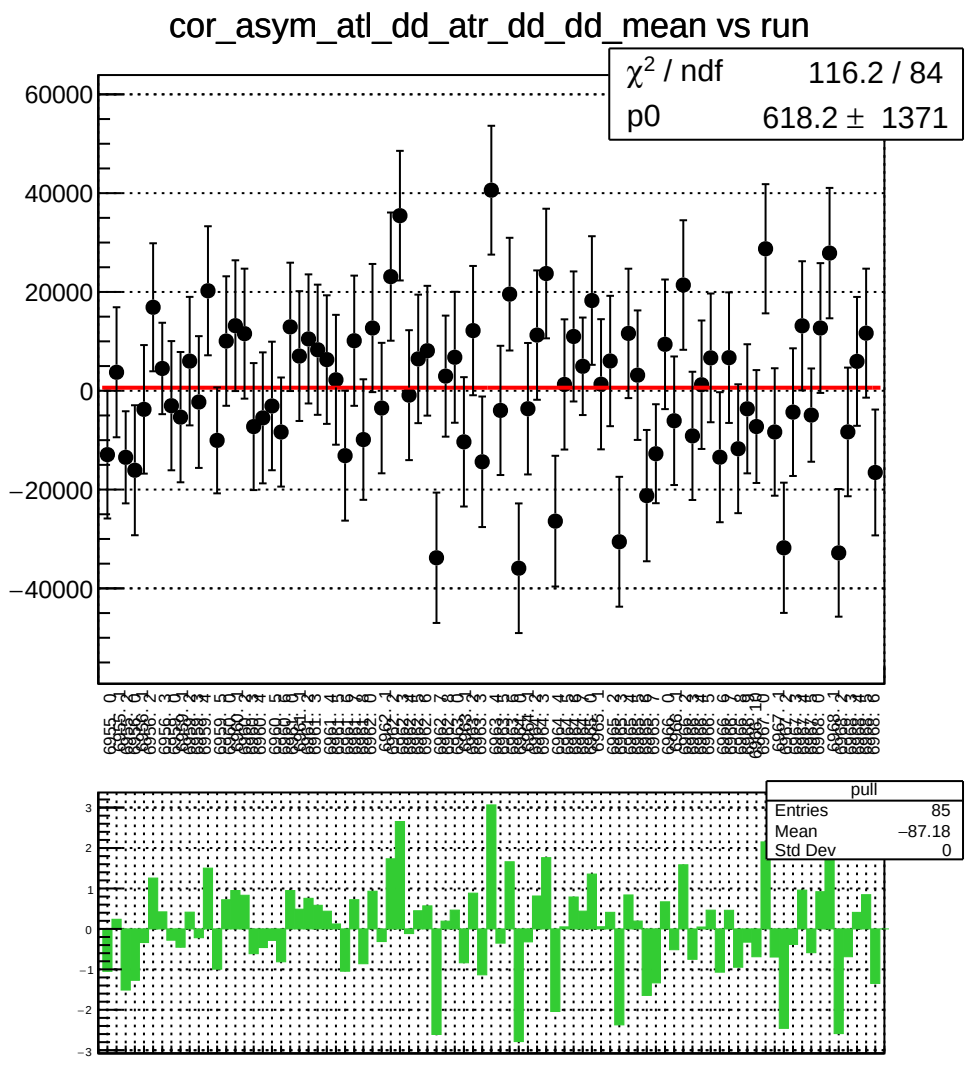

pull1D
Entries 85
Mean 0.01393
Std Dev 1.169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

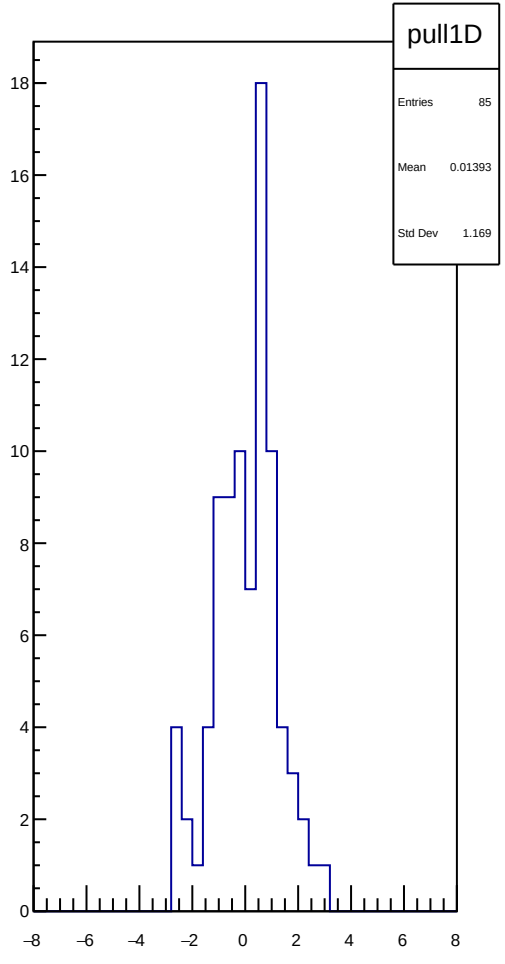

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 96.43 / 84
p0 1243 ± 0.9696
1280
1270
1260
1250
1240
1230
1220
1210

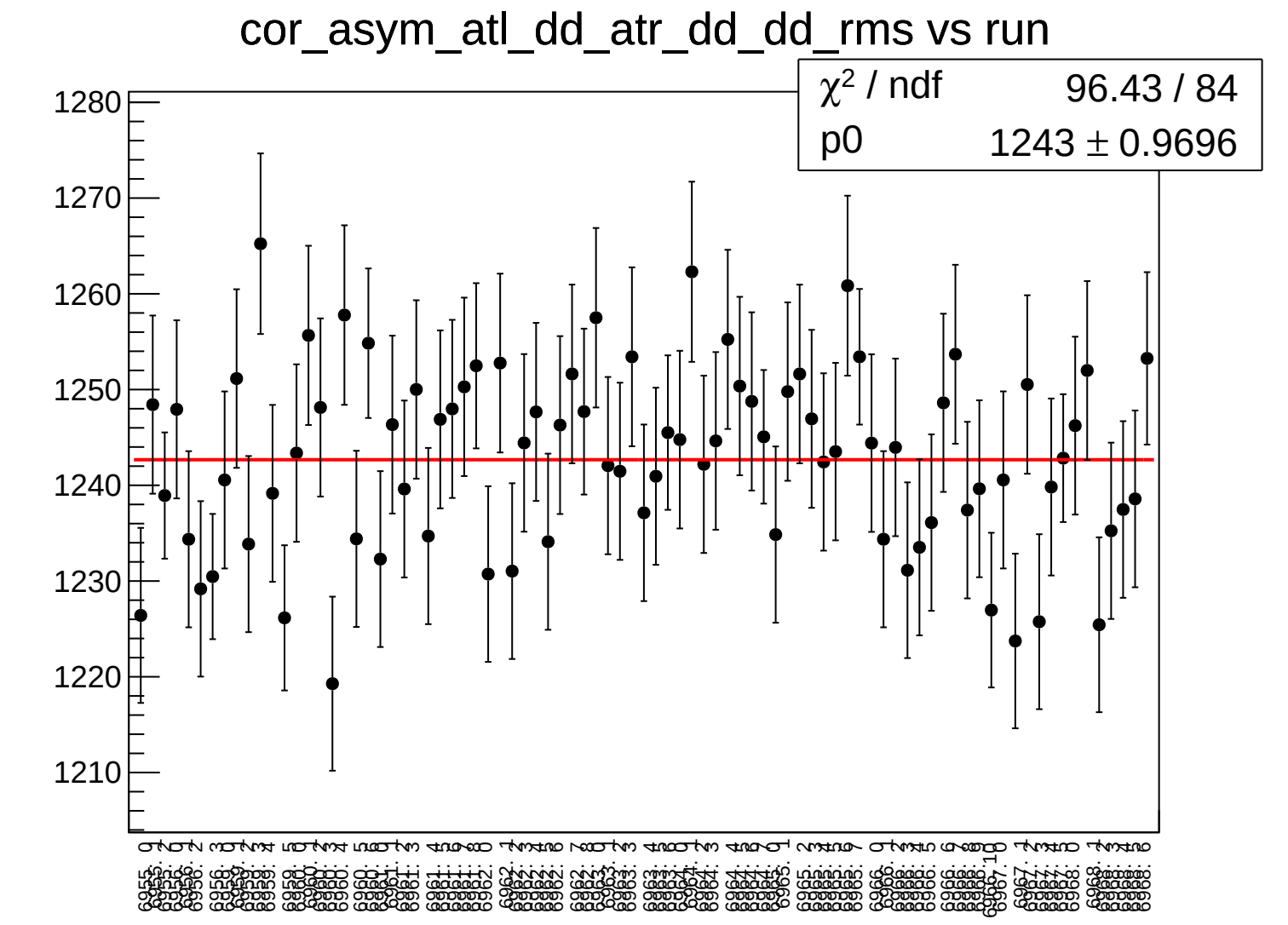

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 94.77 / 84
p0 335.9 ± 773.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −163.6
Std Dev 0
3
2
1
0
−1
−2
−3

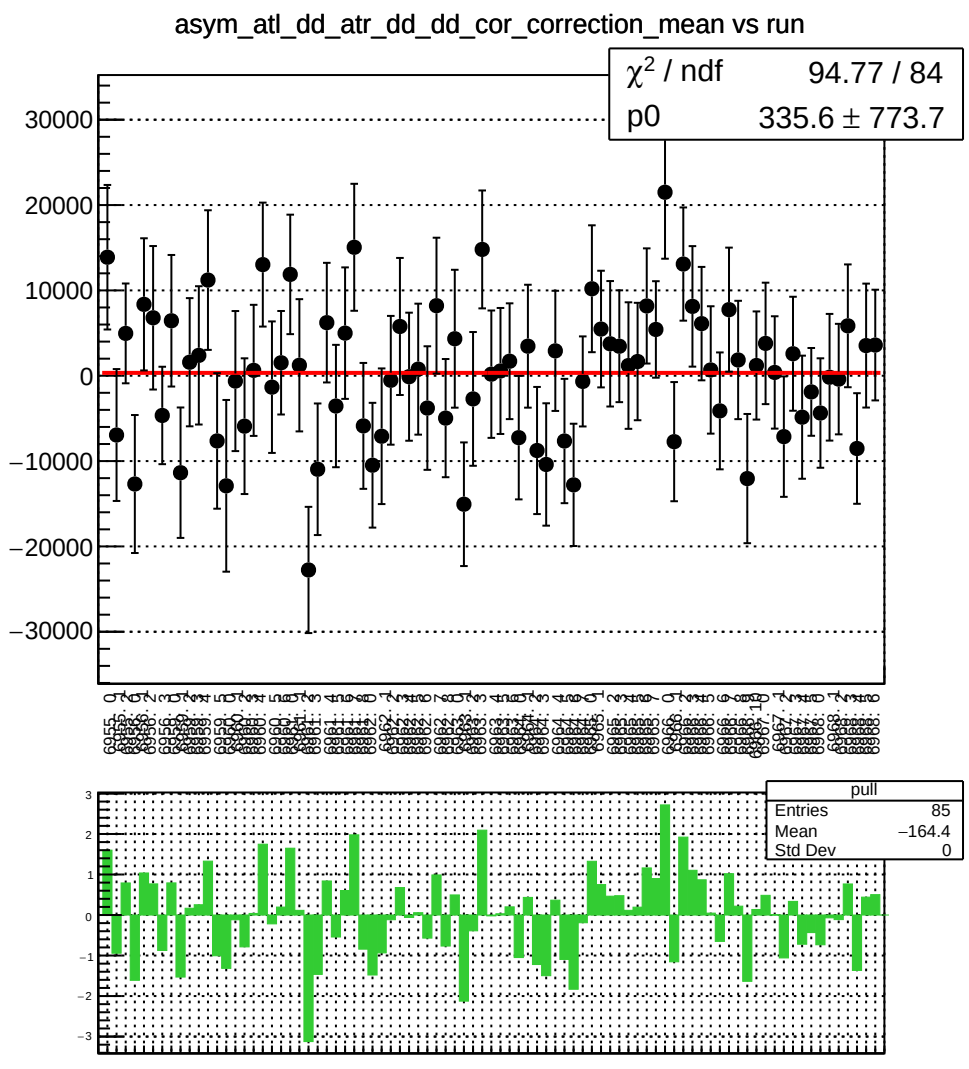

pull1D
Entries 85
Mean −0.005204
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

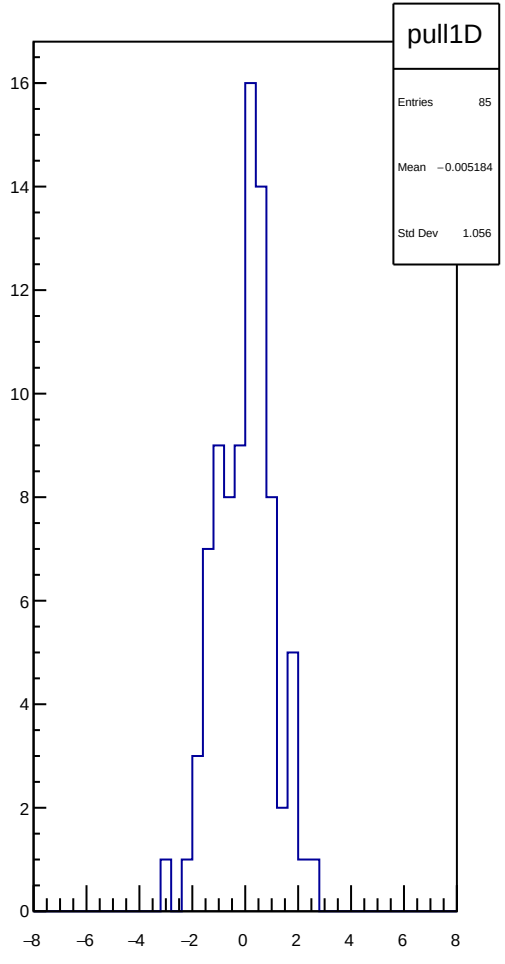

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 9306 / 84
p0 699.2 ± 0.5471
950
900
850
800
750
700
650
600

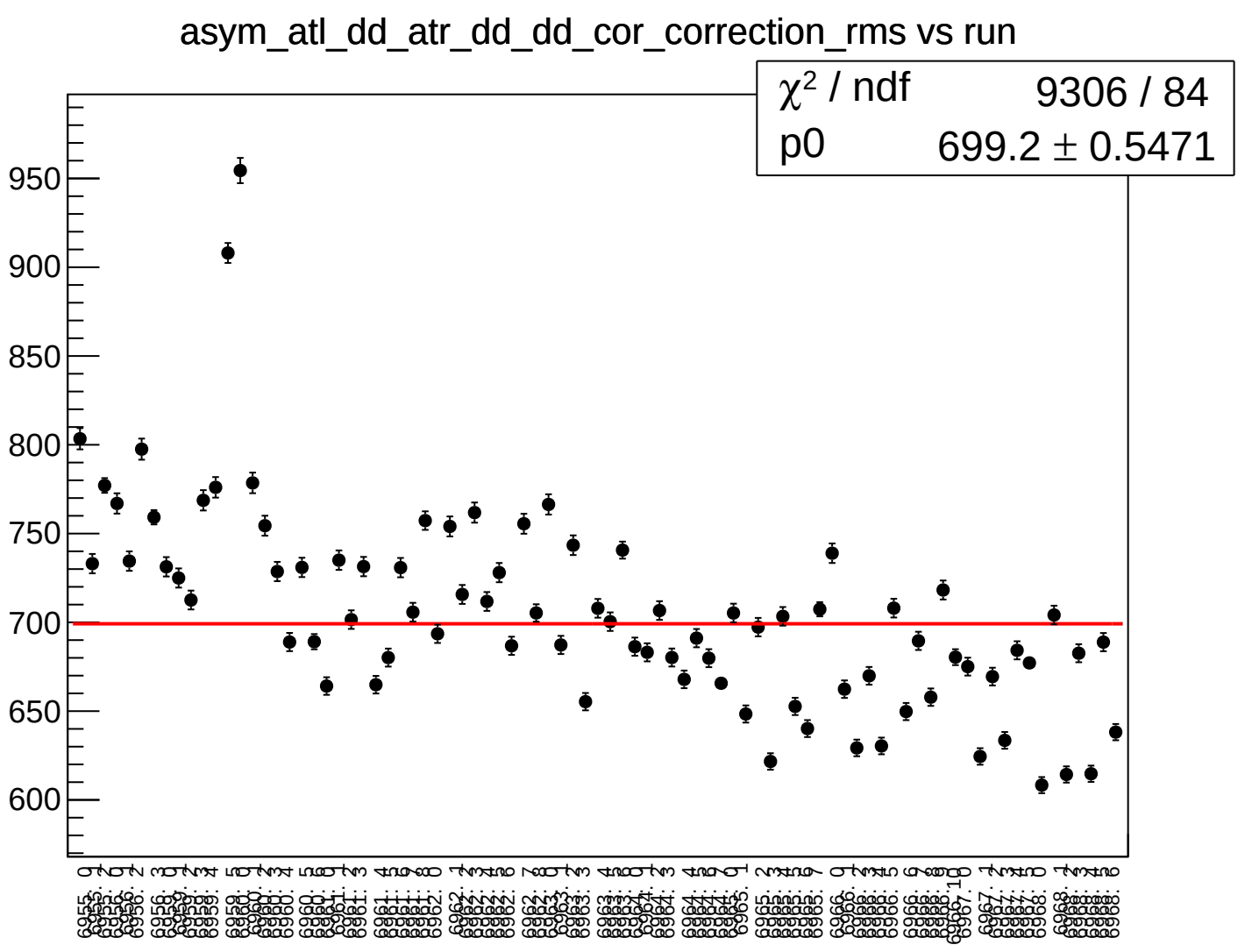

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 116.2 / 84
p0 618.2 ± 1371
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −87.18
Std Dev 0
3
2
1
0
−1
−2
−3

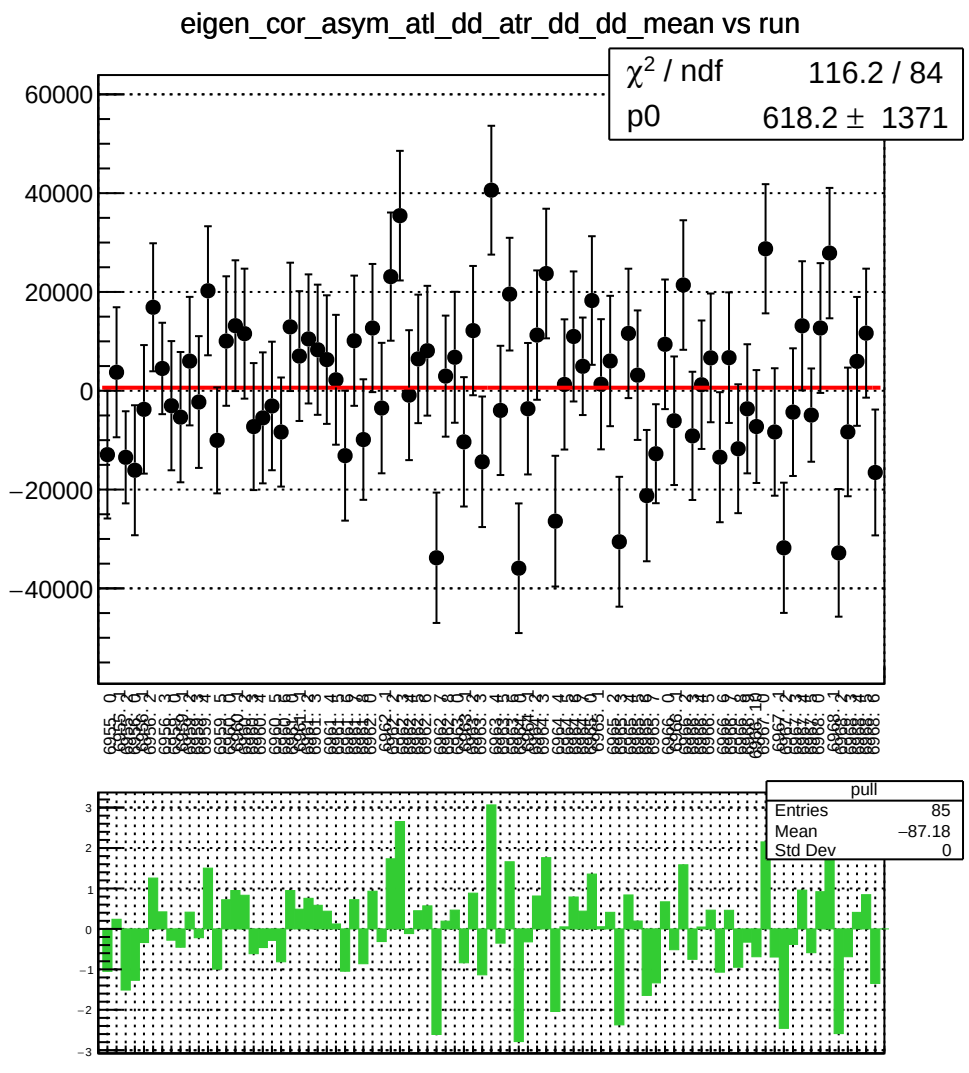

pull1D
Entries 85
Mean 0.01393
Std Dev 1.169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

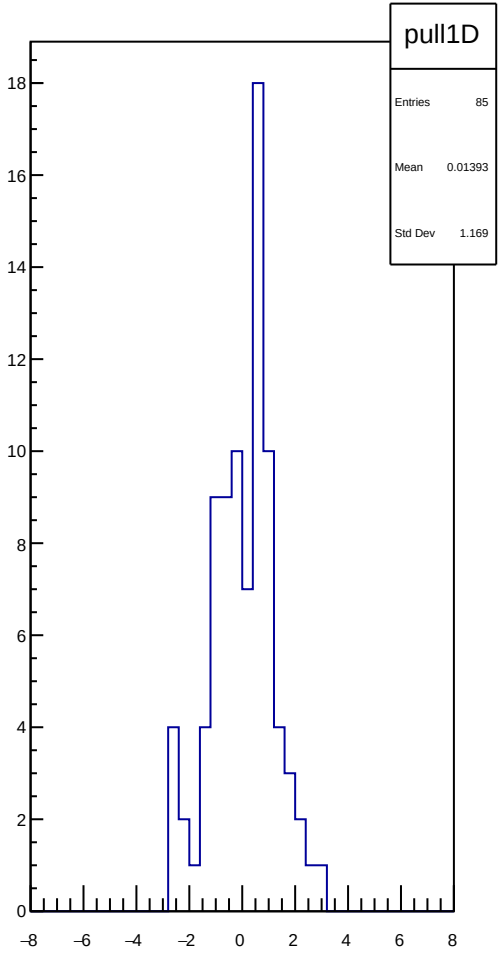

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 96.43 / 84
p0 1243 ± 0.9696
1280
1270
1260
1250
1240
1230
1220
1210

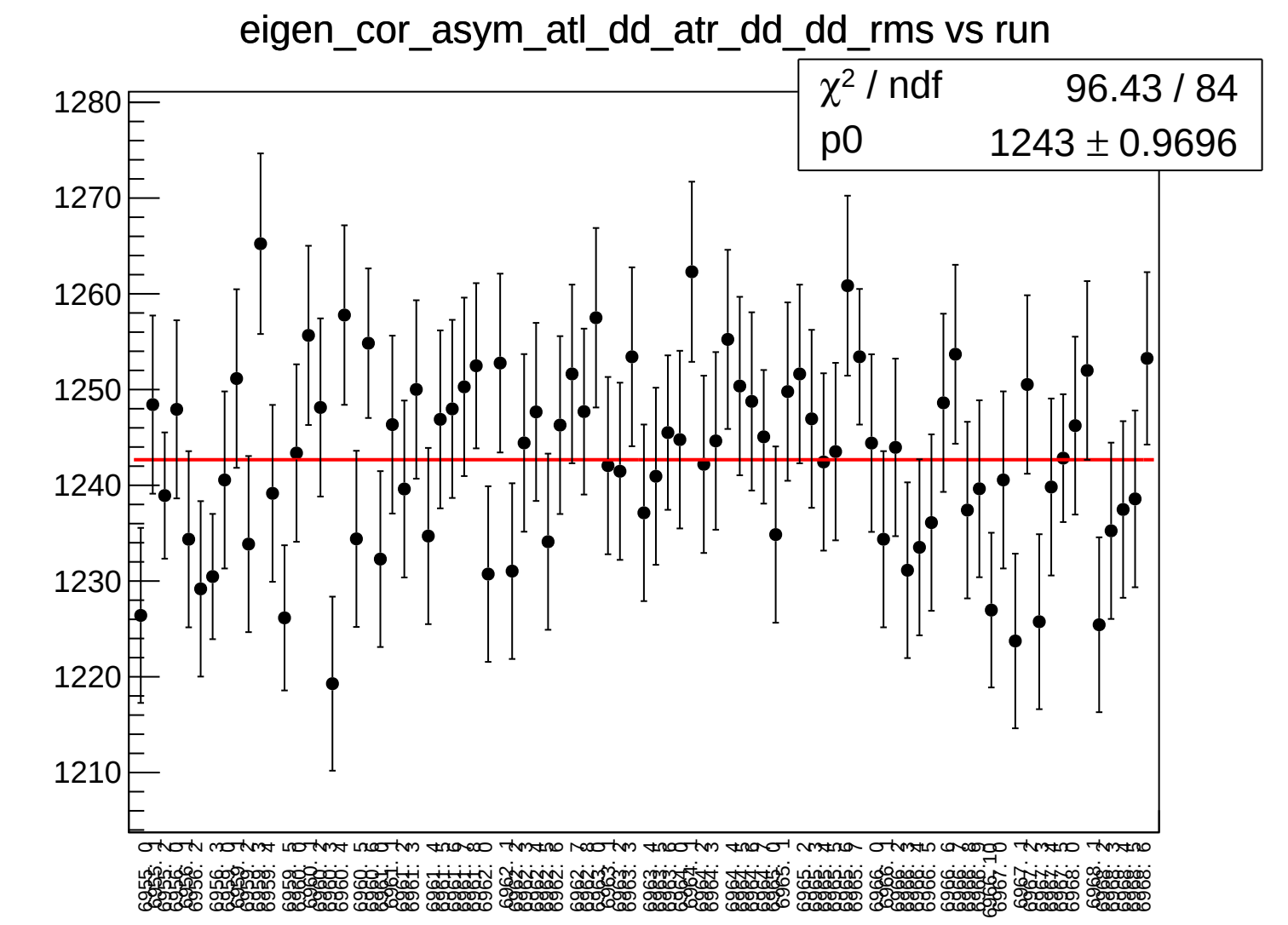

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 94.77 / 84
p0 335.6 ± 773.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −164.4
Std Dev 0
3
2
1
0
−1
−2
−3

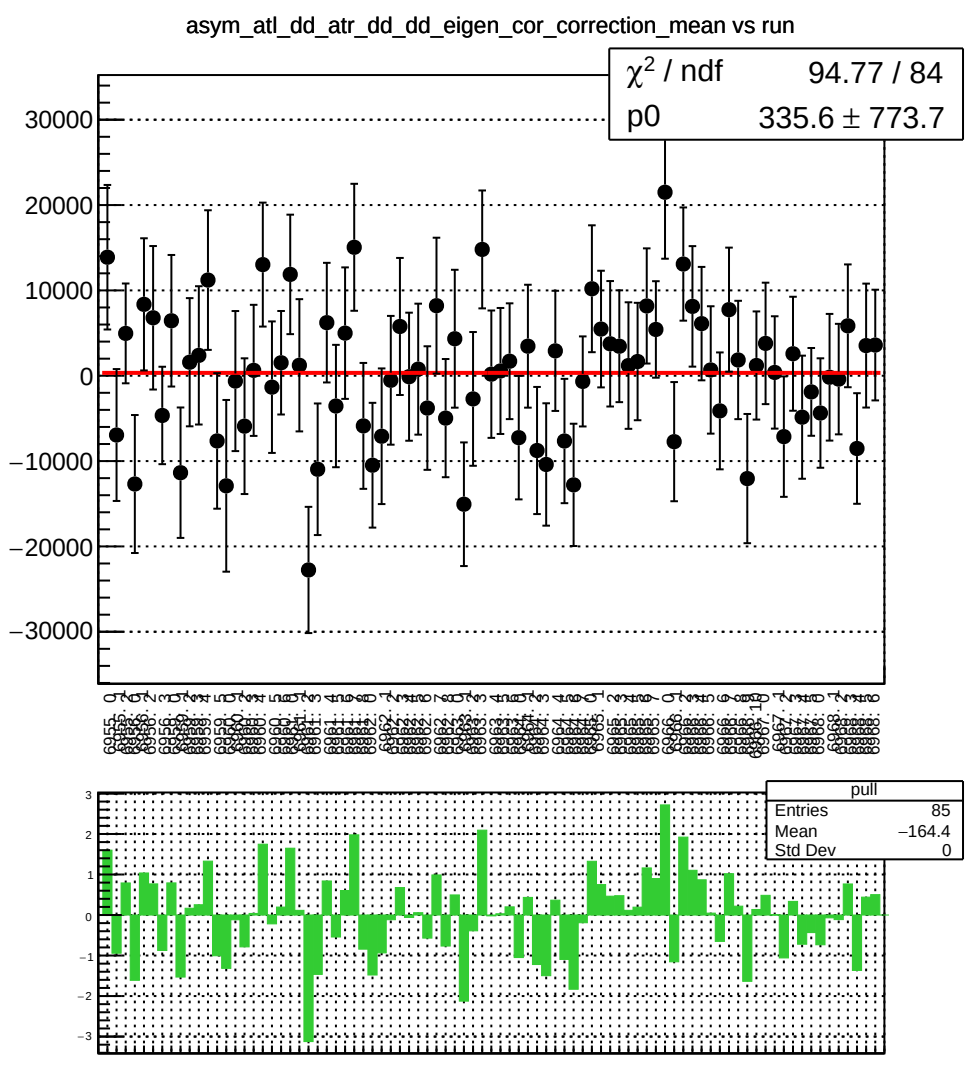

pull1D
Entries 85
Mean −0.005184
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

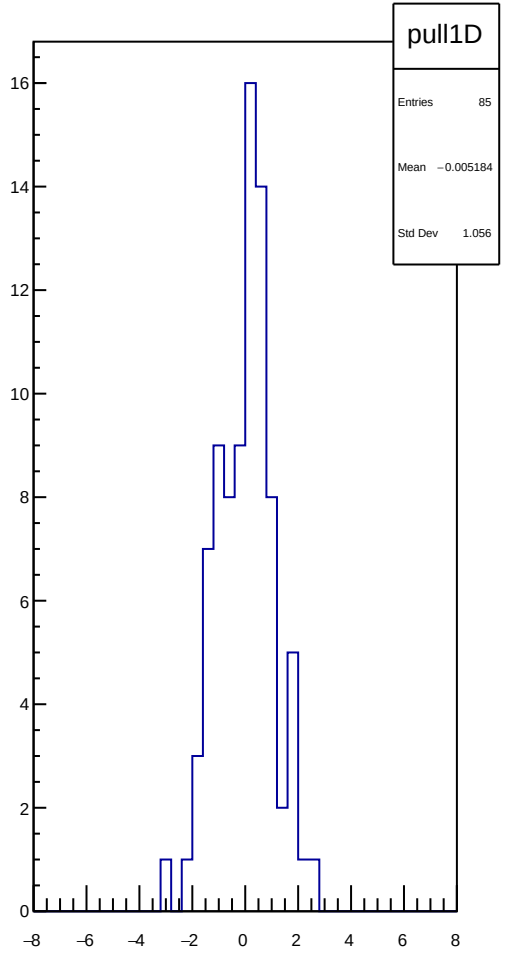

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 9306 / 84
p0 699.2 ± 0.5471
950
900
850
800
750
700
650
600


eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 116.2 / 84
p0 618.2 ± 1371
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −87.18
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 85
Mean 0.01393
Std Dev 1.169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
$\chi^2$ / ndf 96.43 / 84
p0 1243 ± 0.9696
1280
1270
1260
1250
1240
1230
1220
1210


asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.77 / 84
p0 335.6 ± 773.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −164.4
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 85
Mean −0.005184
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
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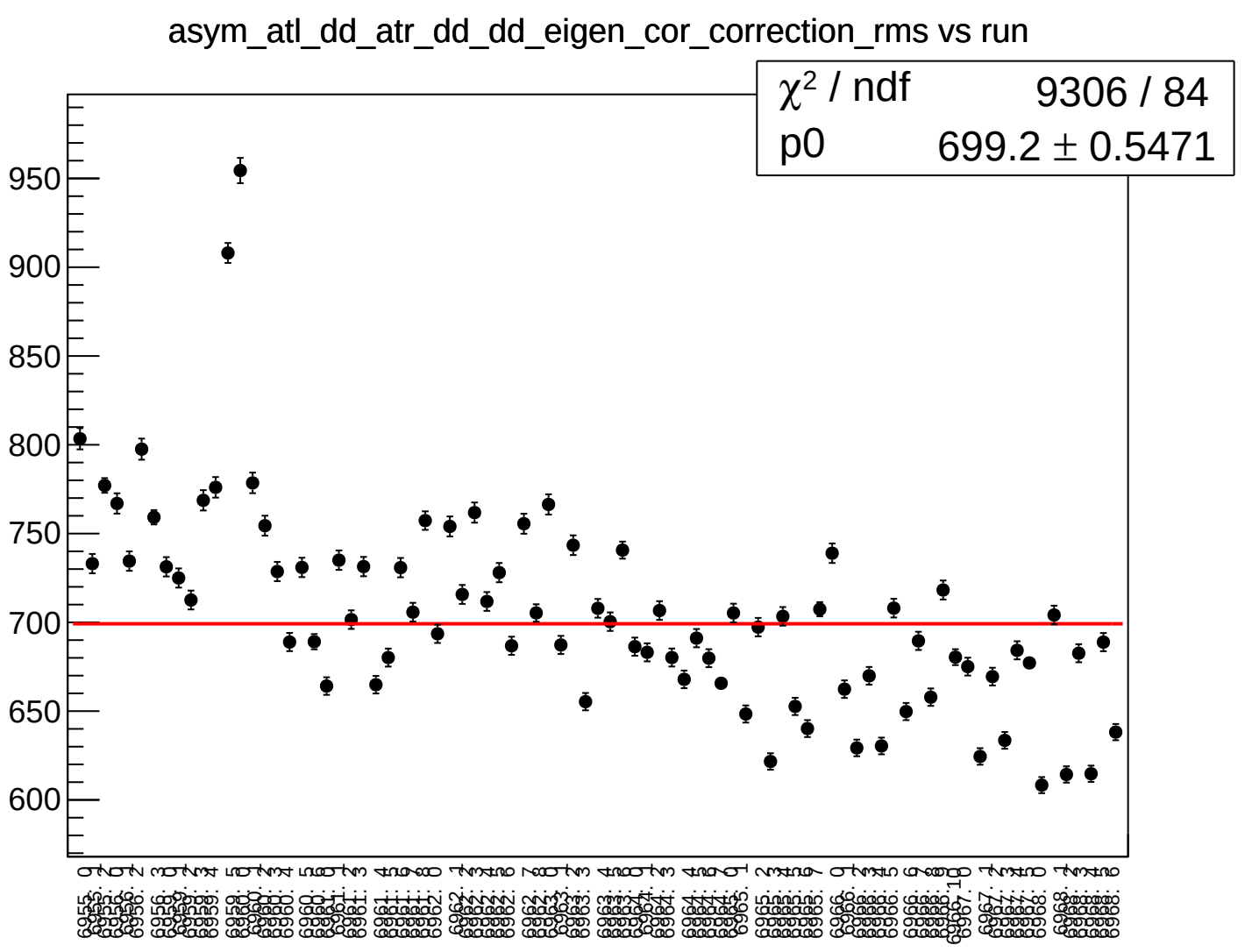
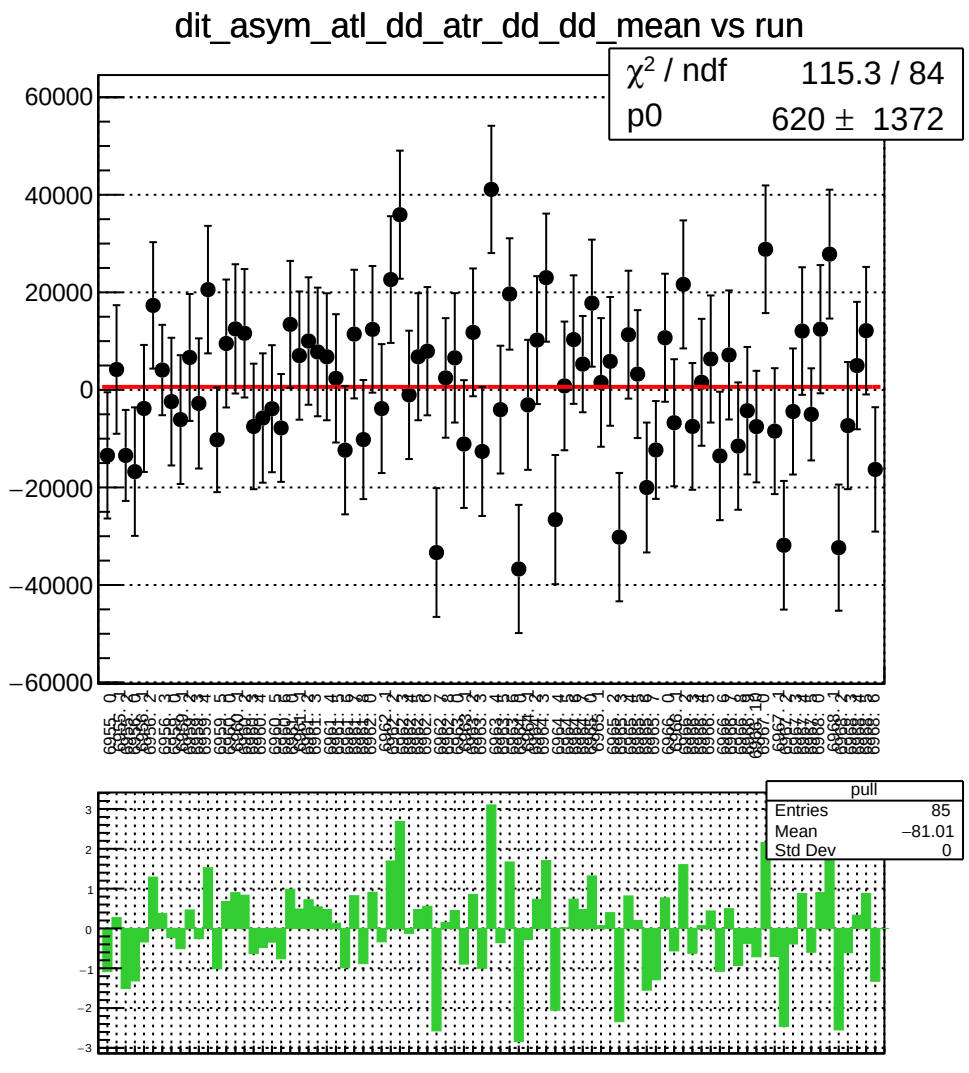
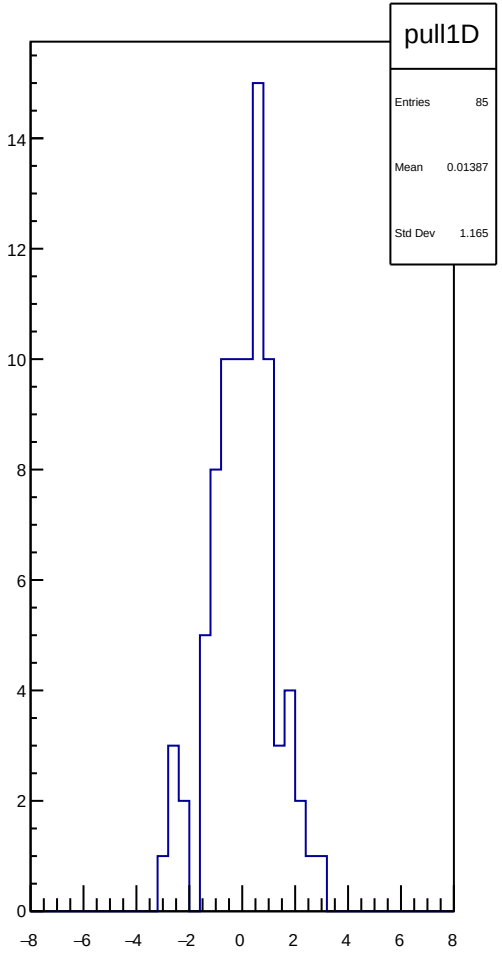
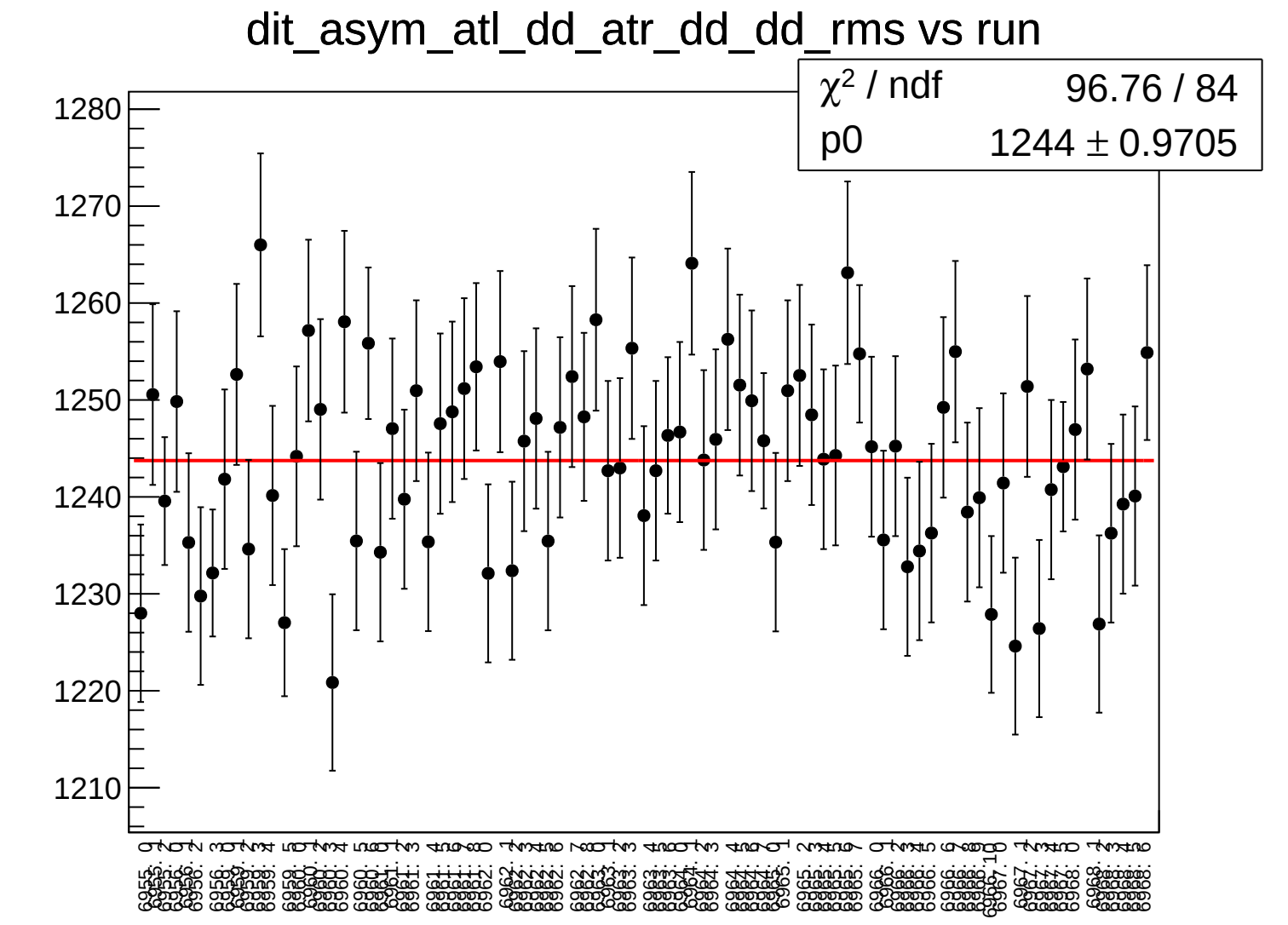
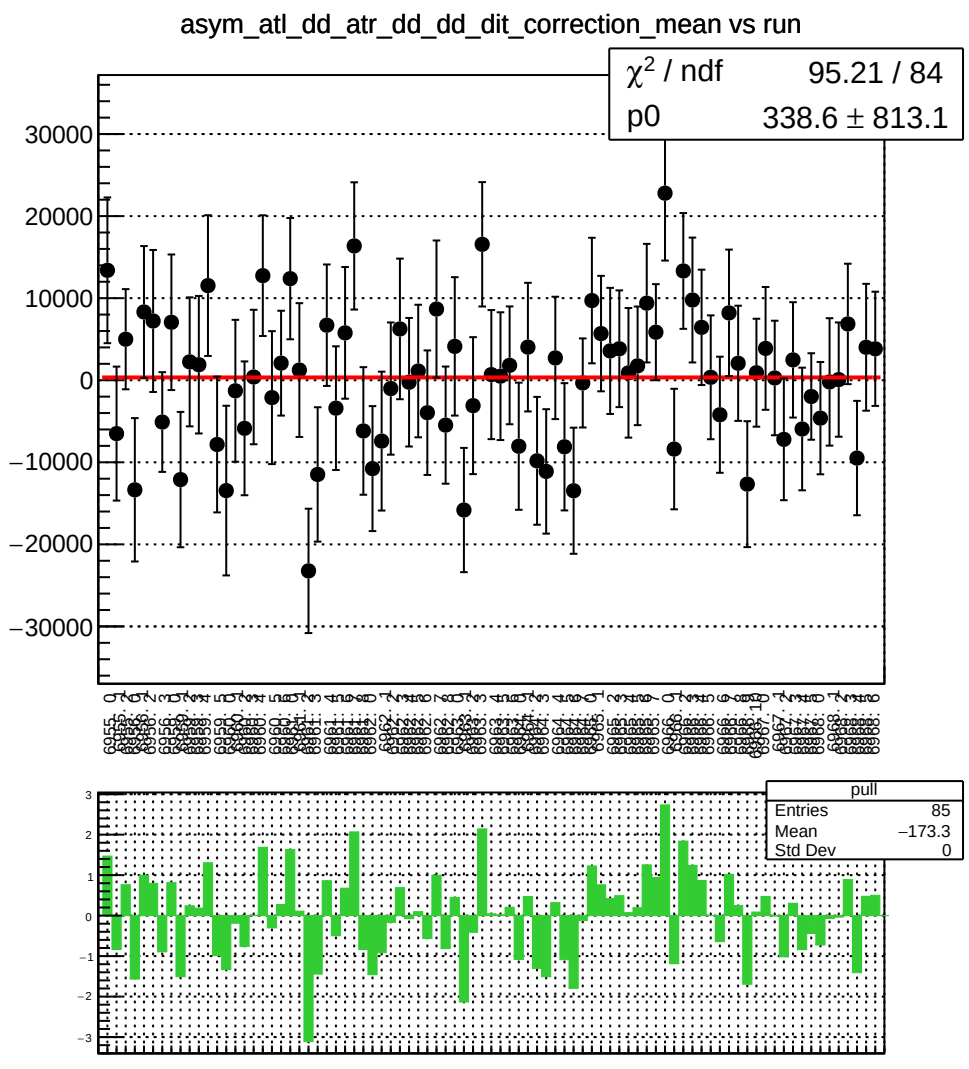
2
4
6
8

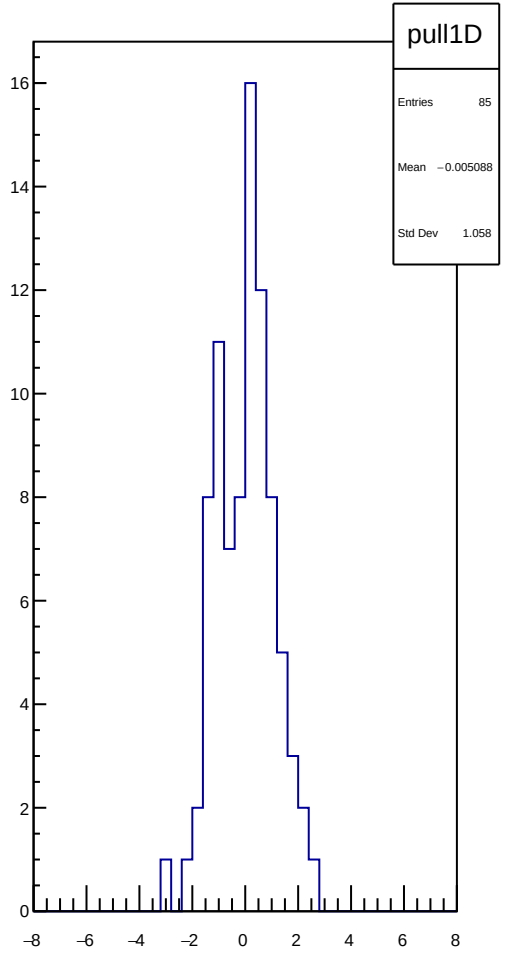

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9306 / 84
p0 699.2 ± 0.5471
950
900
850
800
750
700
650
600

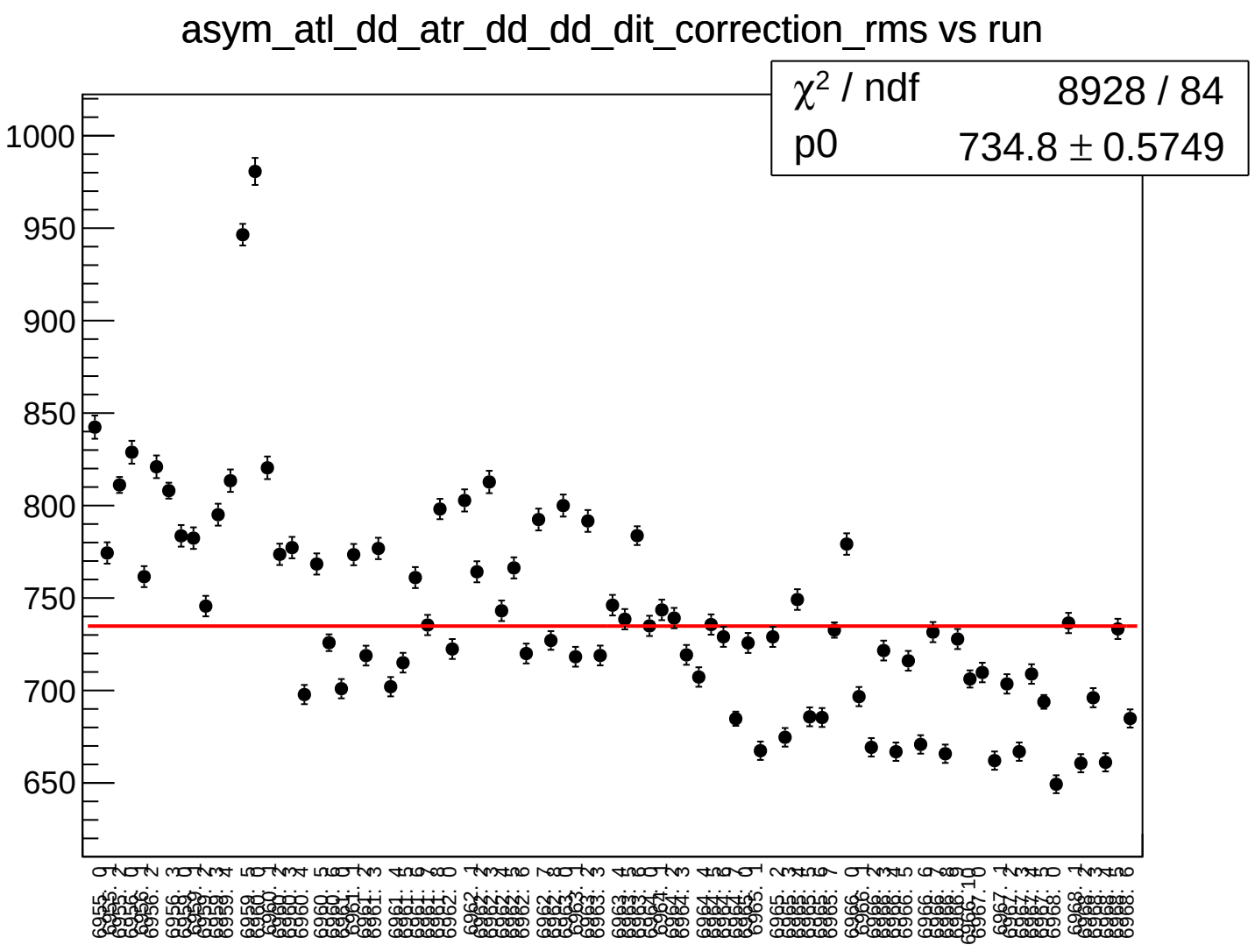

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 115.3 / 84
p0 620 ± 1372
pull
Entries 85
Mean −81.01
Std Dev 0

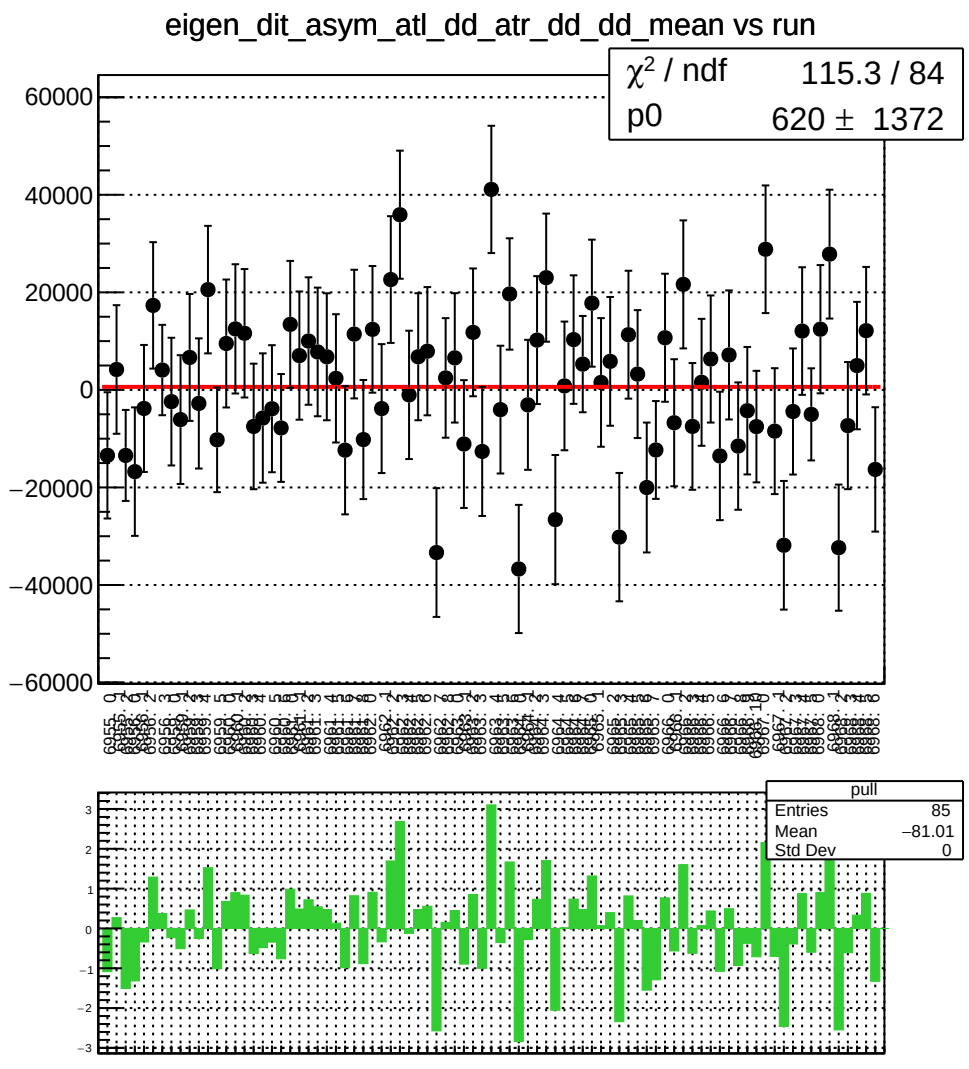

pull1D
Entries 85
Mean 0.01387
Std Dev 1.165

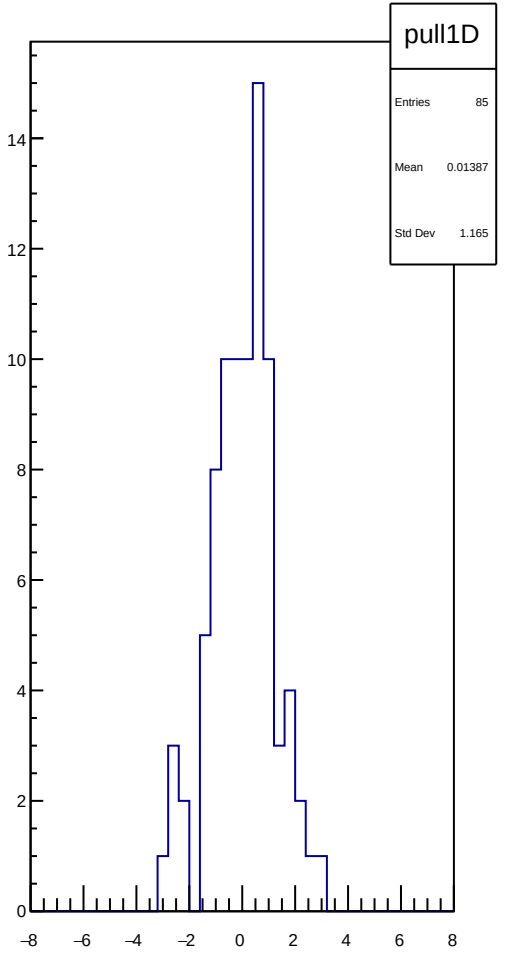

dit_asym_atl_dd_atr_dd_dd_rms vs run
$\chi^2$ / ndf 96.76 / 84
p0 1244 ± 0.9705
1280
1270
1260
1250
1240
1230
1220
1210

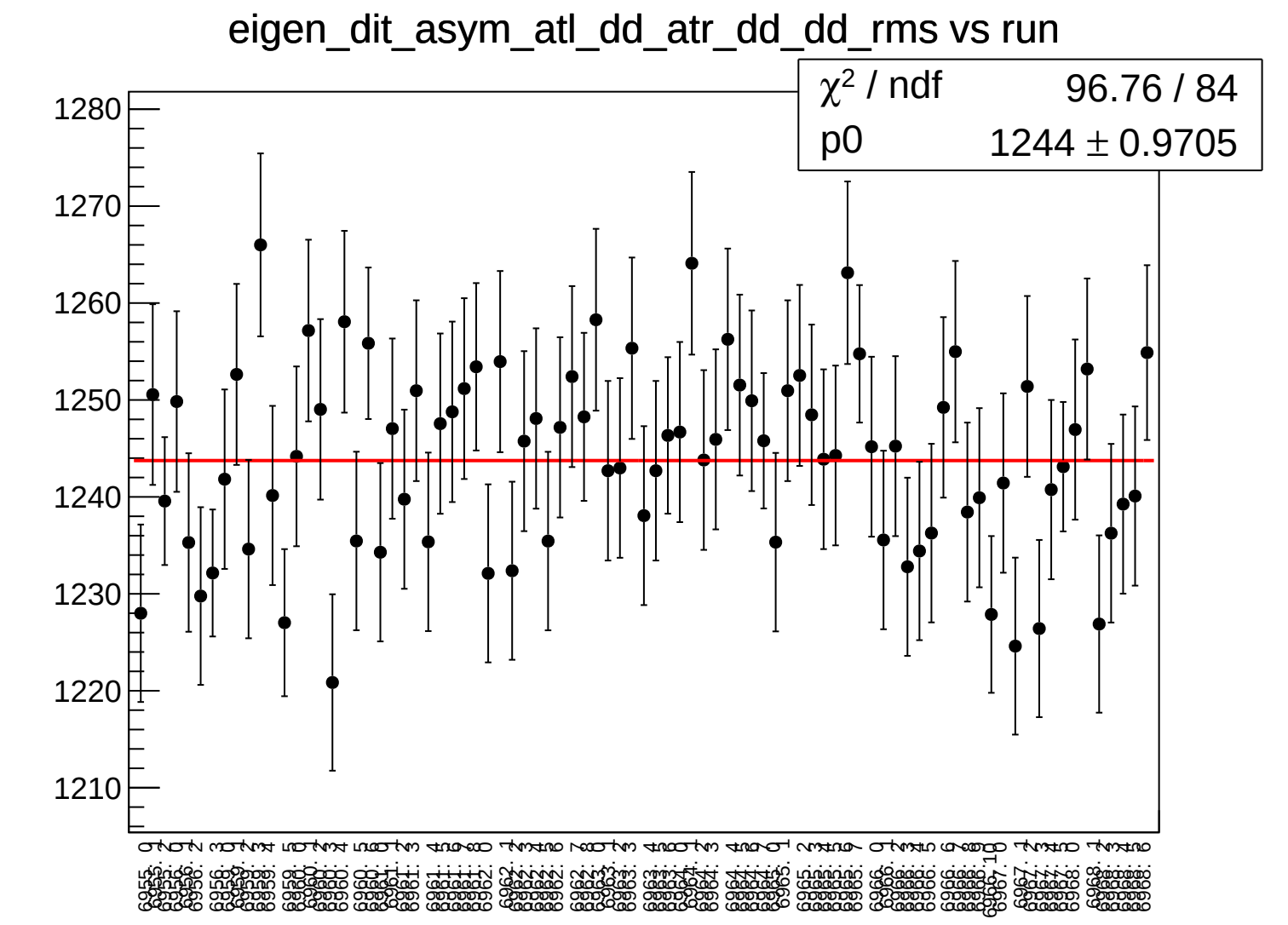

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 95.21 / 84
p0 338.6 ± 813.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −173.3
Std Dev 0
3
2
1
0
−1
−2
−3

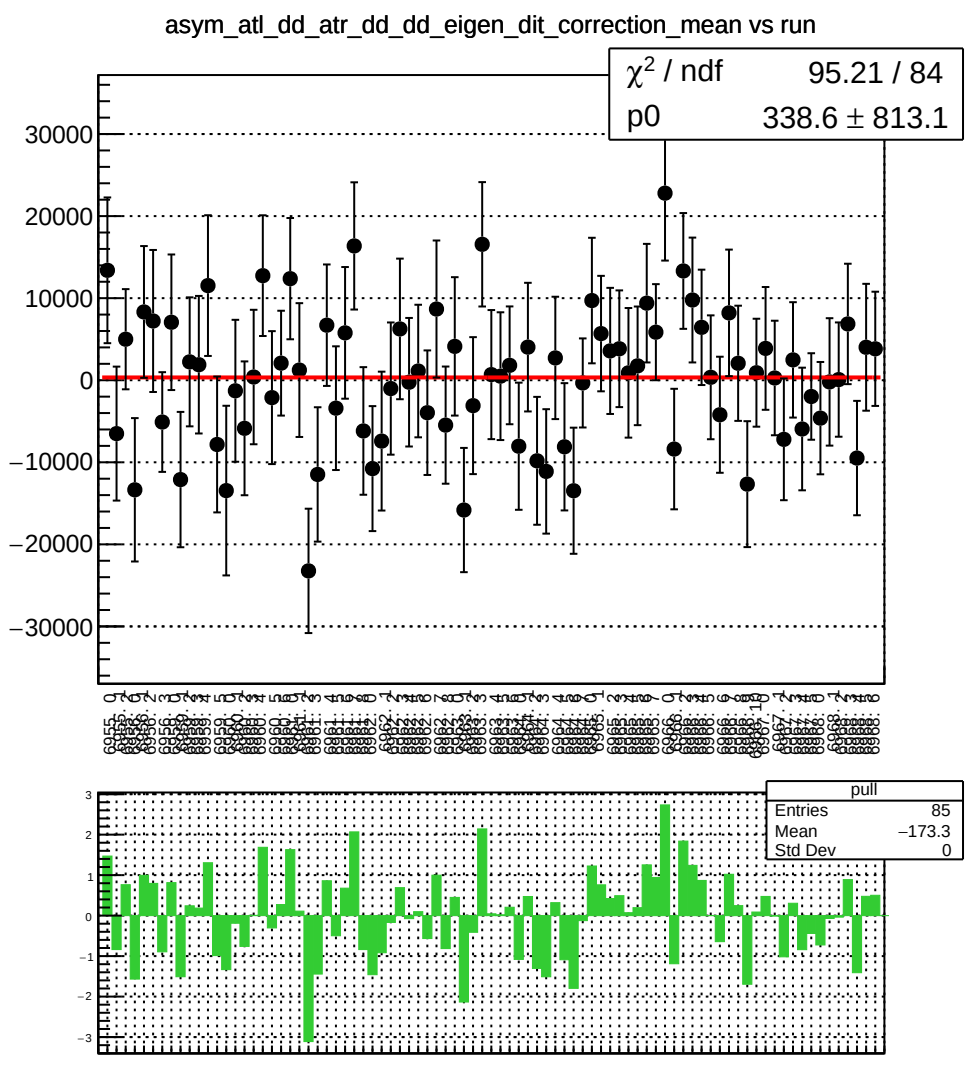

pull1D
Entries 85
Mean −0.005088
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

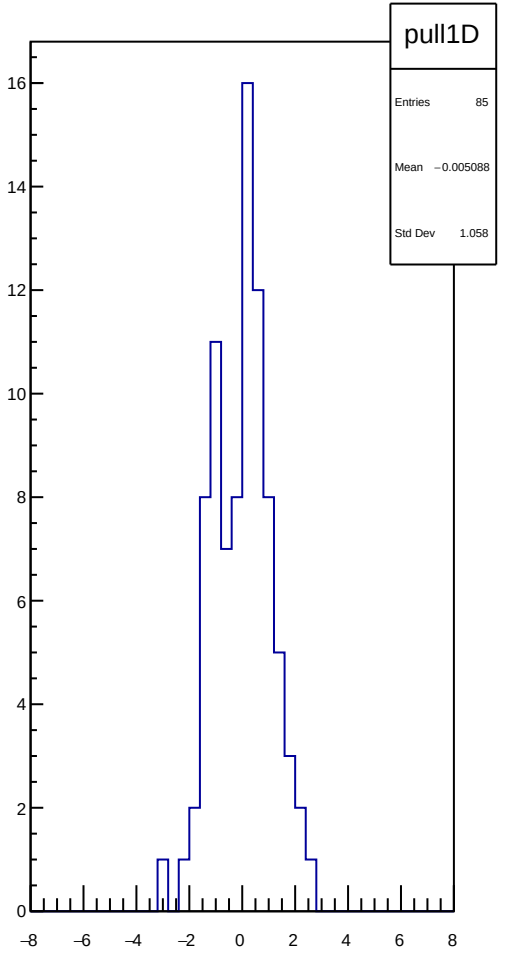

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 8928 / 84
p0 734.8 ± 0.5749
1000
950
900
850
800
750
700
650

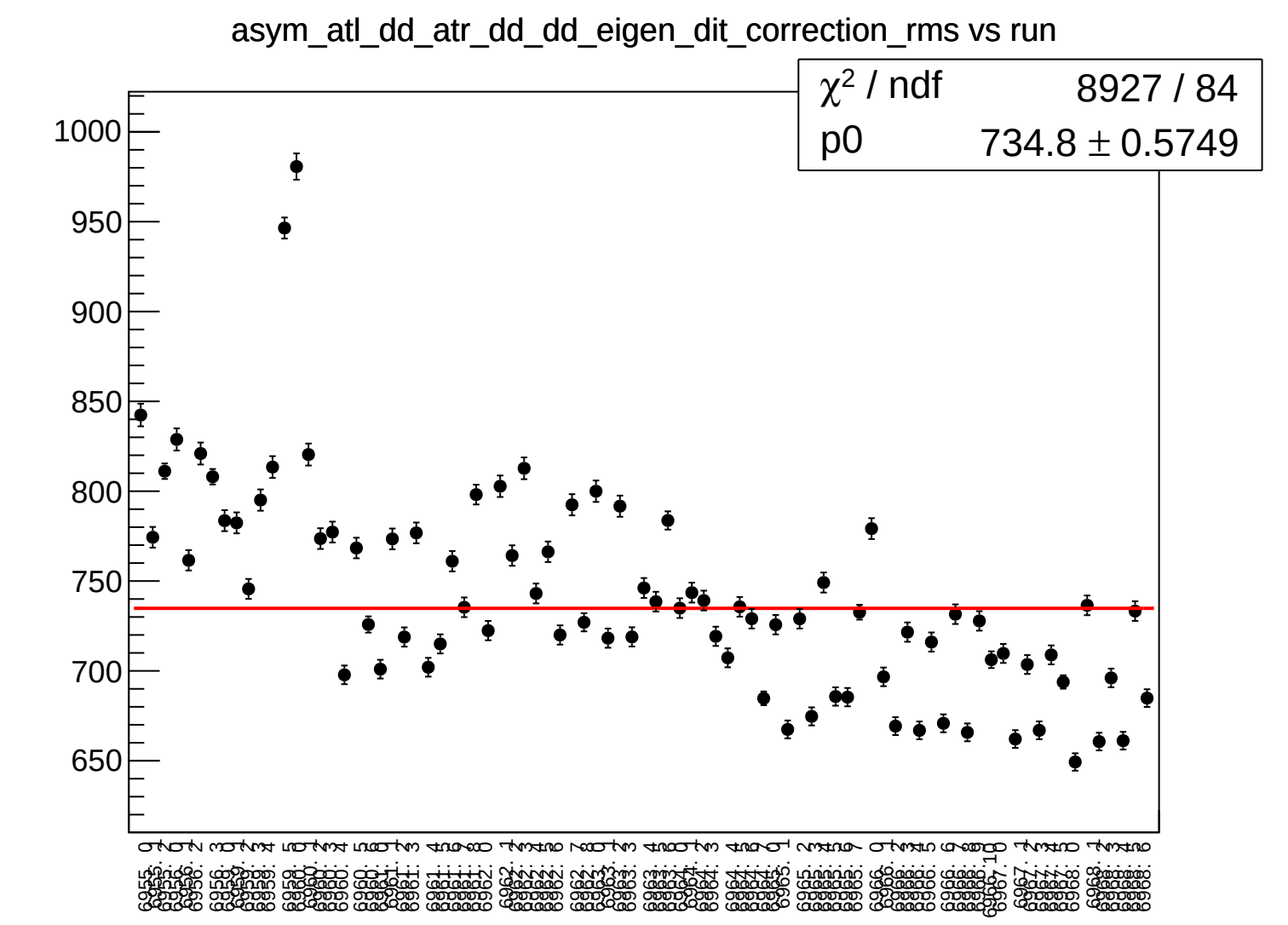

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 115.3 / 84
p0 620 ± 1372
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −81.01
Std Dev 0
3
2
1
0
−1
−2
−3

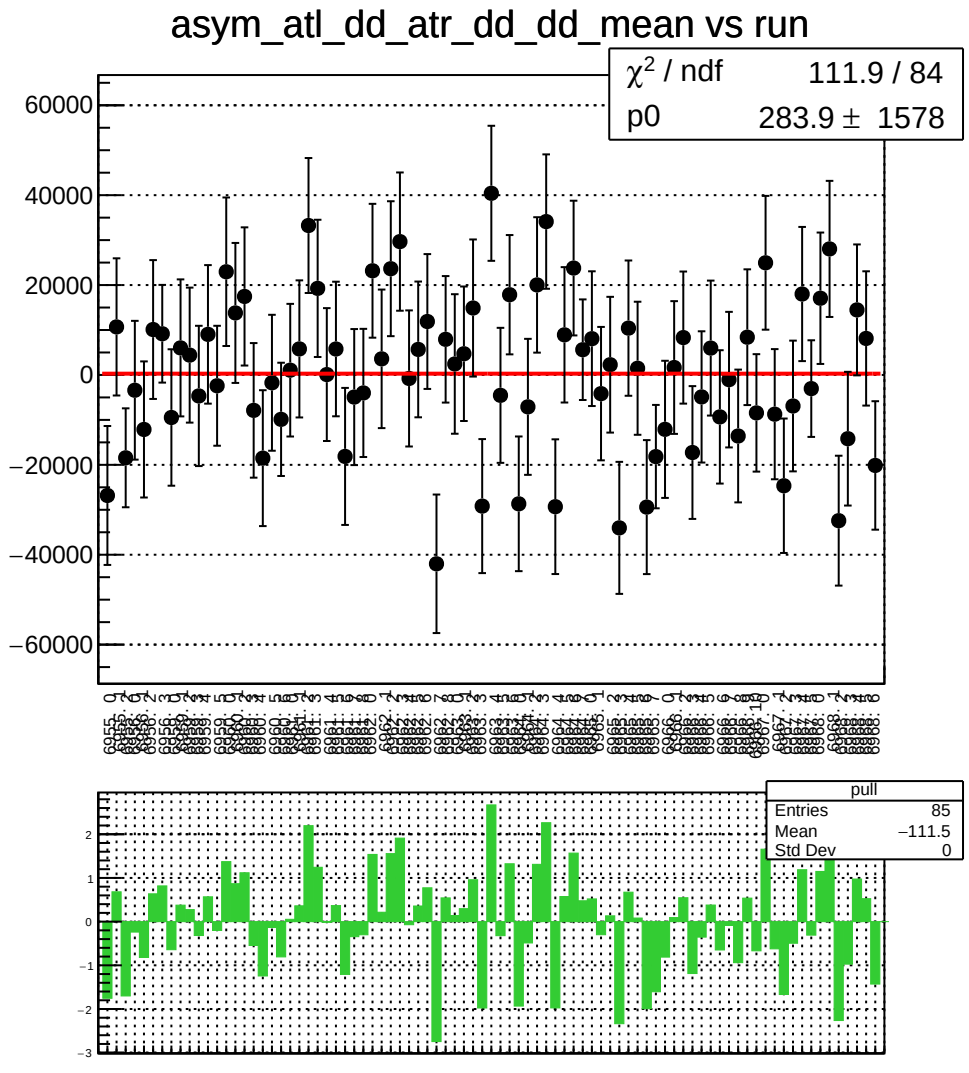

pull1D
Entries 85
Mean 0.01387
Std Dev 1.165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

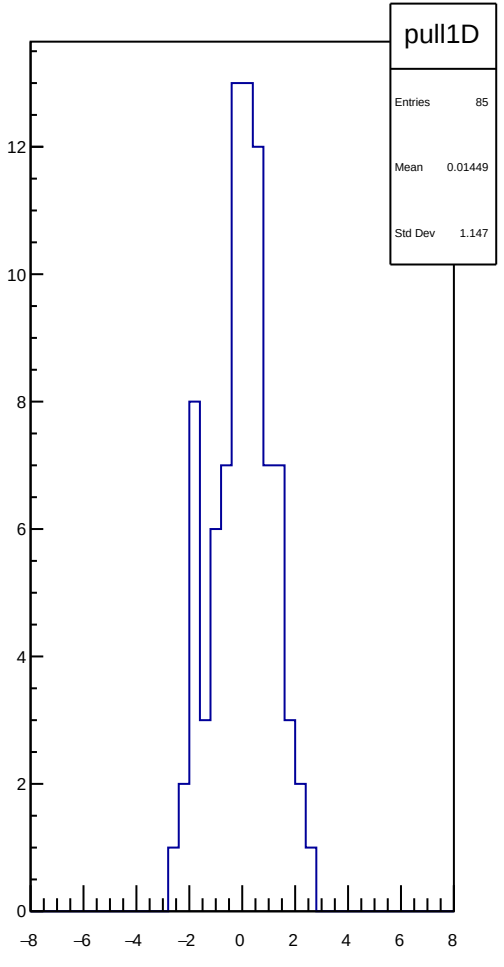

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
$\chi^2$ / ndf 96.76 / 84
p0 1244 ± 0.9705
1280
1270
1260
1250
1240
1230
1220
1210

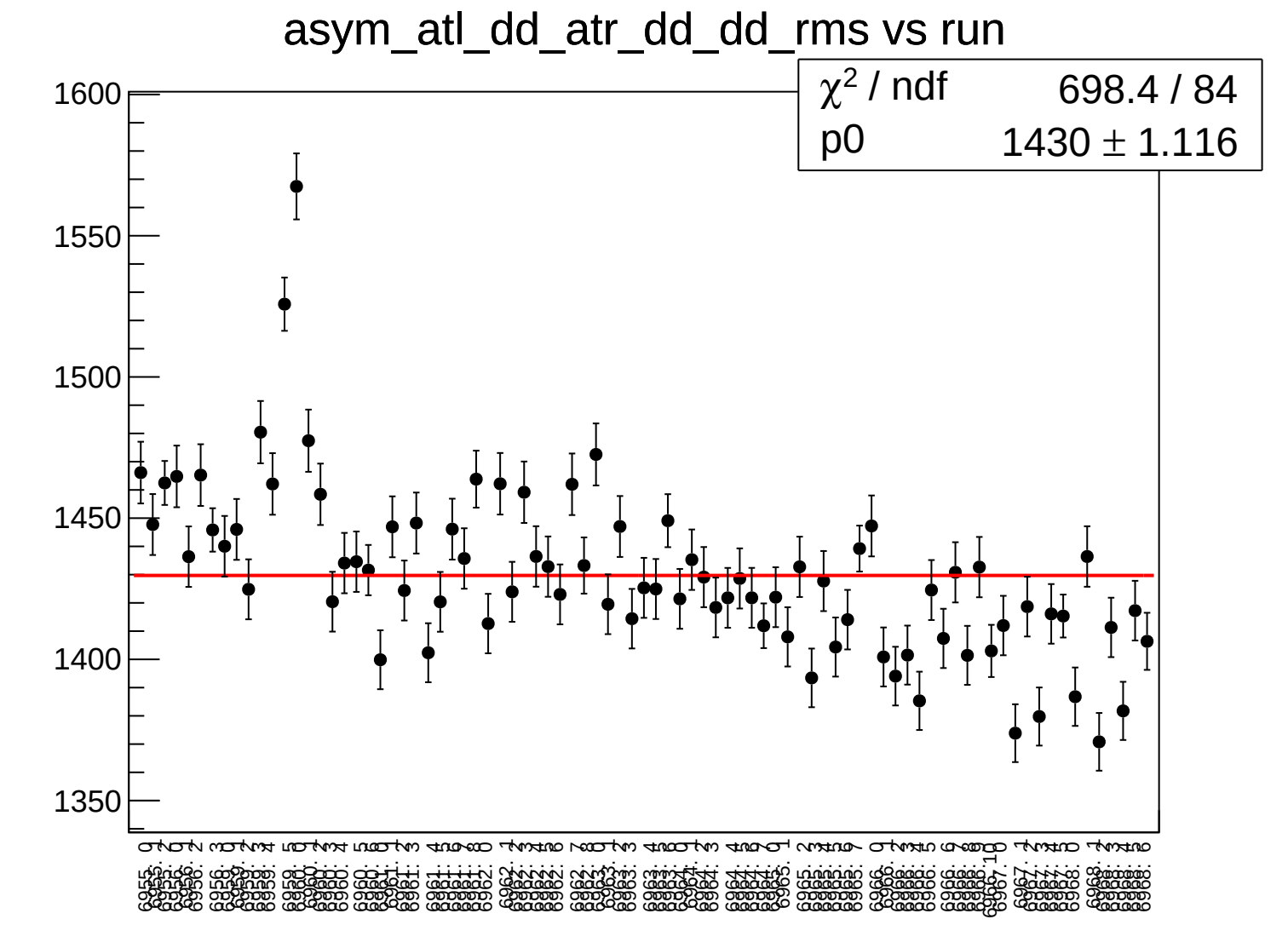

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.21 / 84
p0 338.6 ± 813.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −173.3
Std Dev 0
3
2
1
0
−1
−2
−3

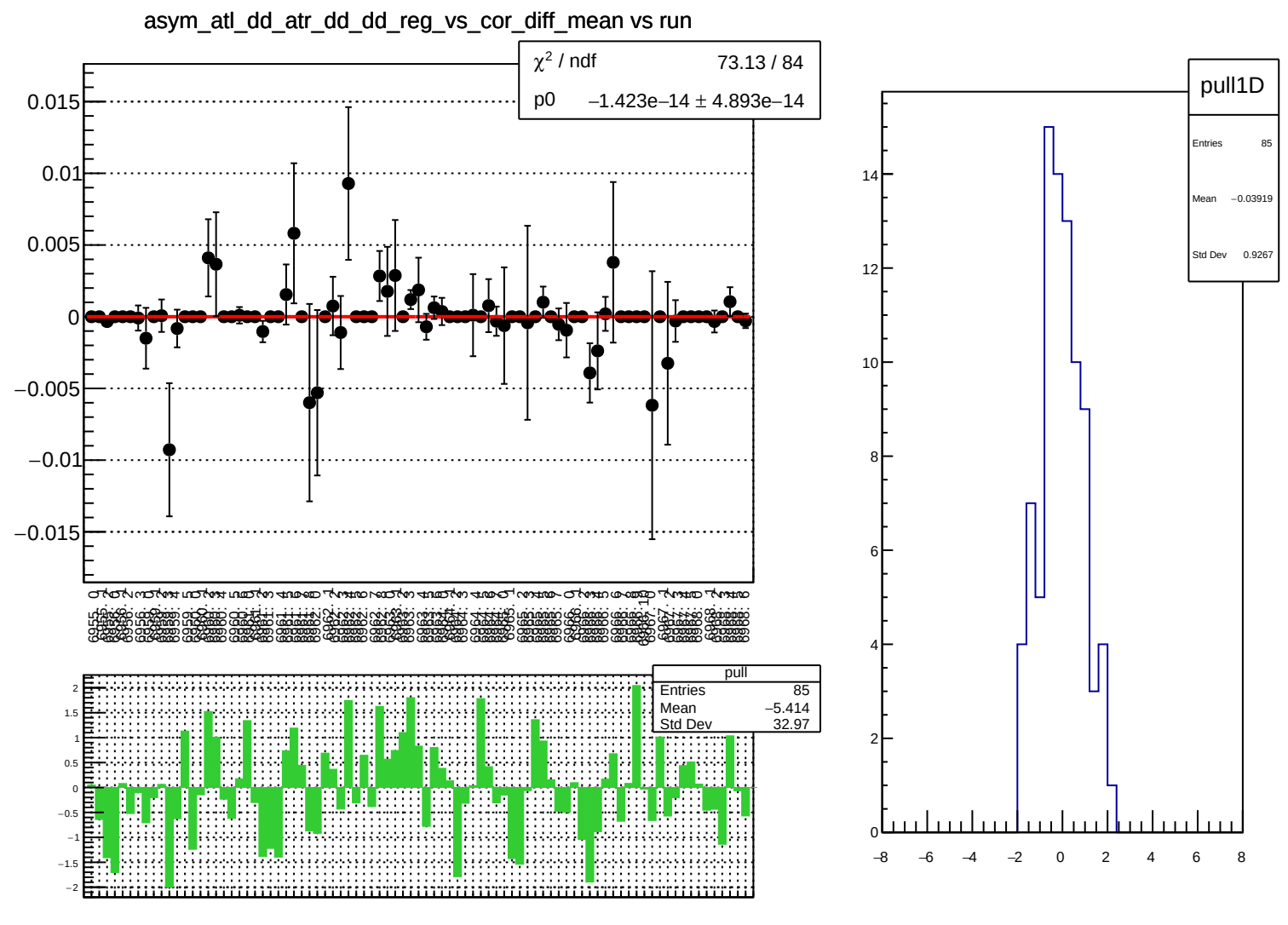

pull1D
Entries 85
Mean −0.005088
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

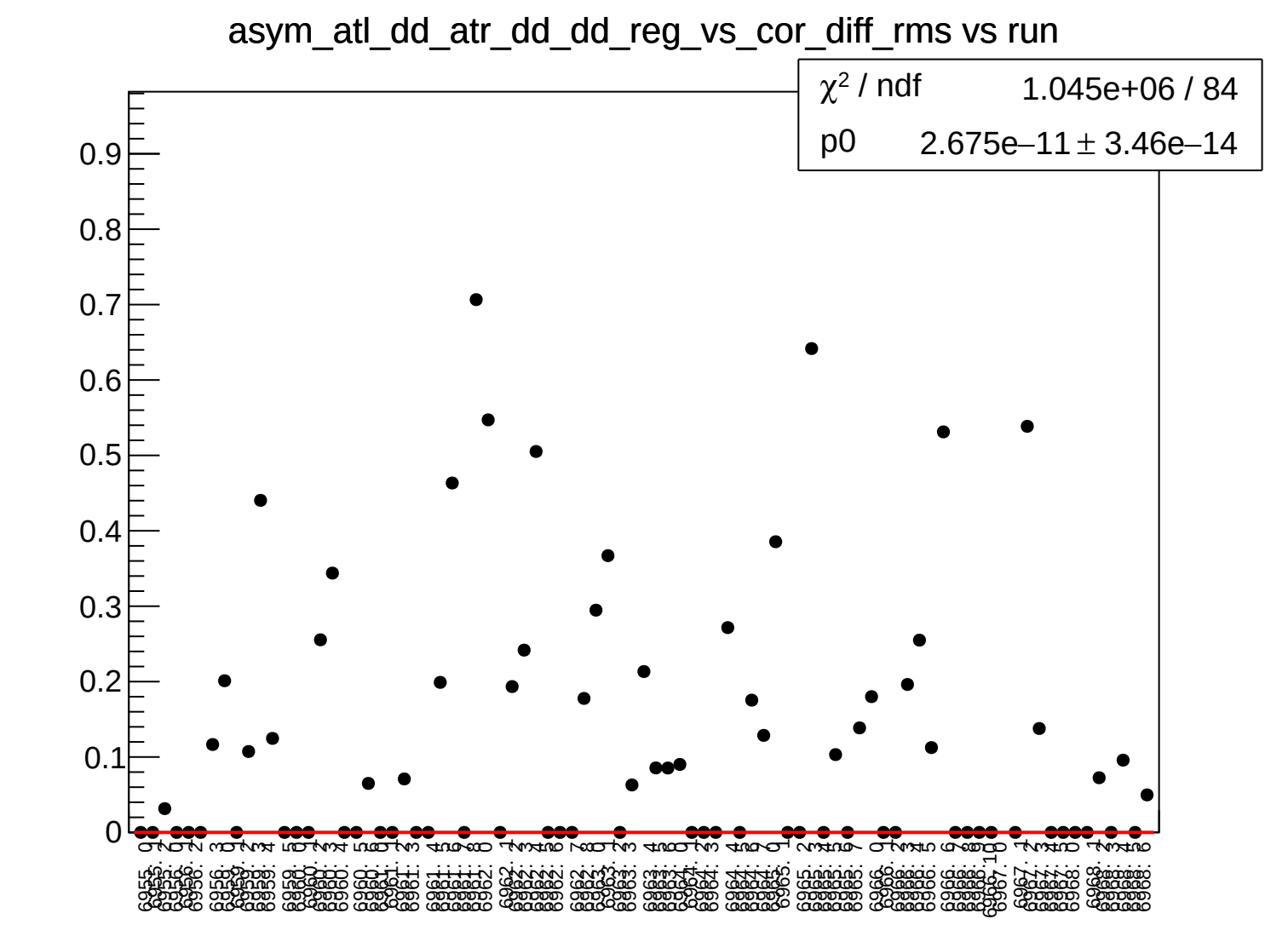

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8927 / 84
p0 734.8 ± 0.5749
1000
950
900
850
800
750
700
650

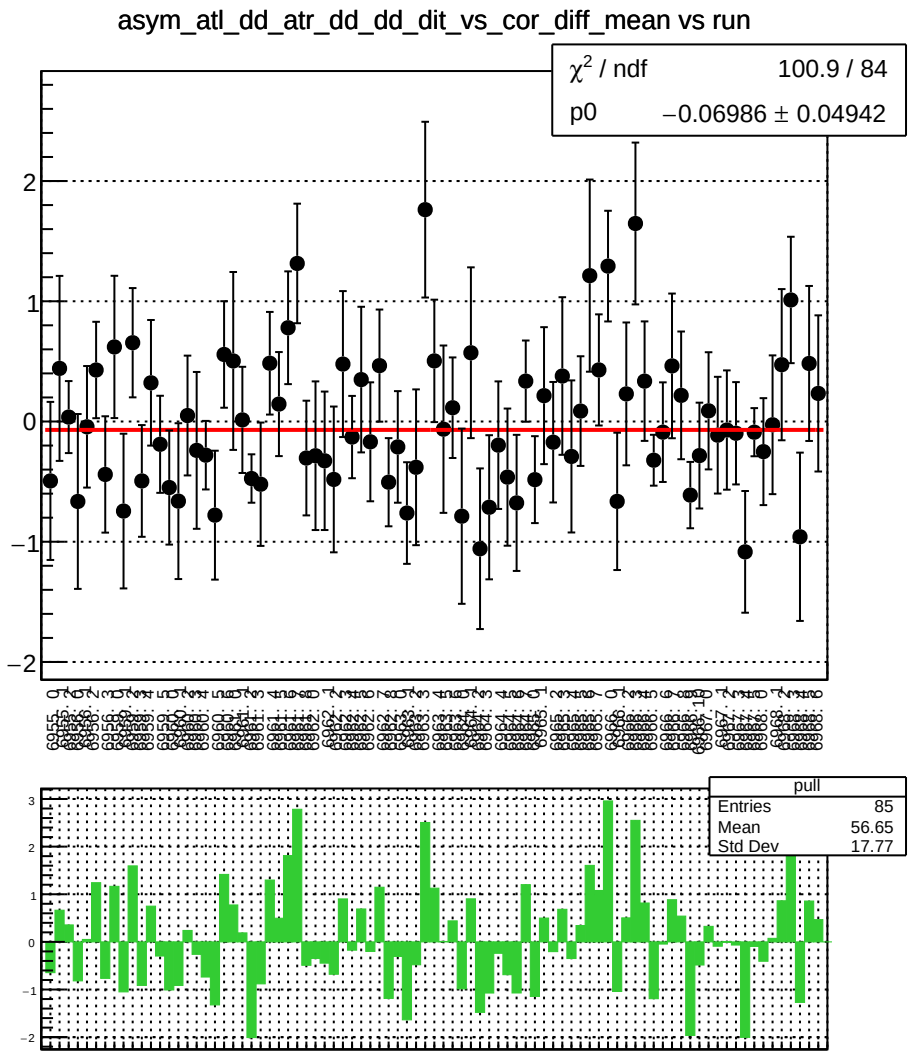

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 111.9 / 84
p0 283.9 ± 1578
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −111.5
Std Dev 0
2
1
0
−1
−2
−3

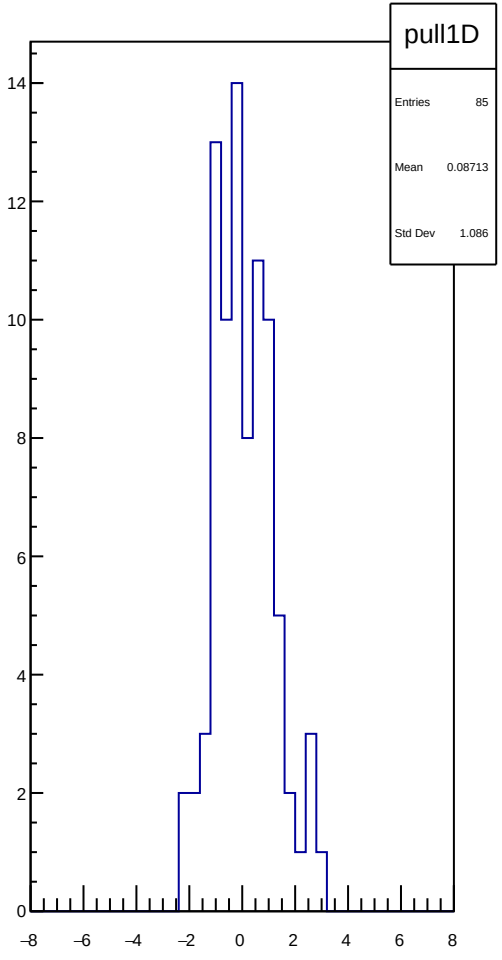

pull1D
Entries 85
Mean 0.01449
Std Dev 1.147
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

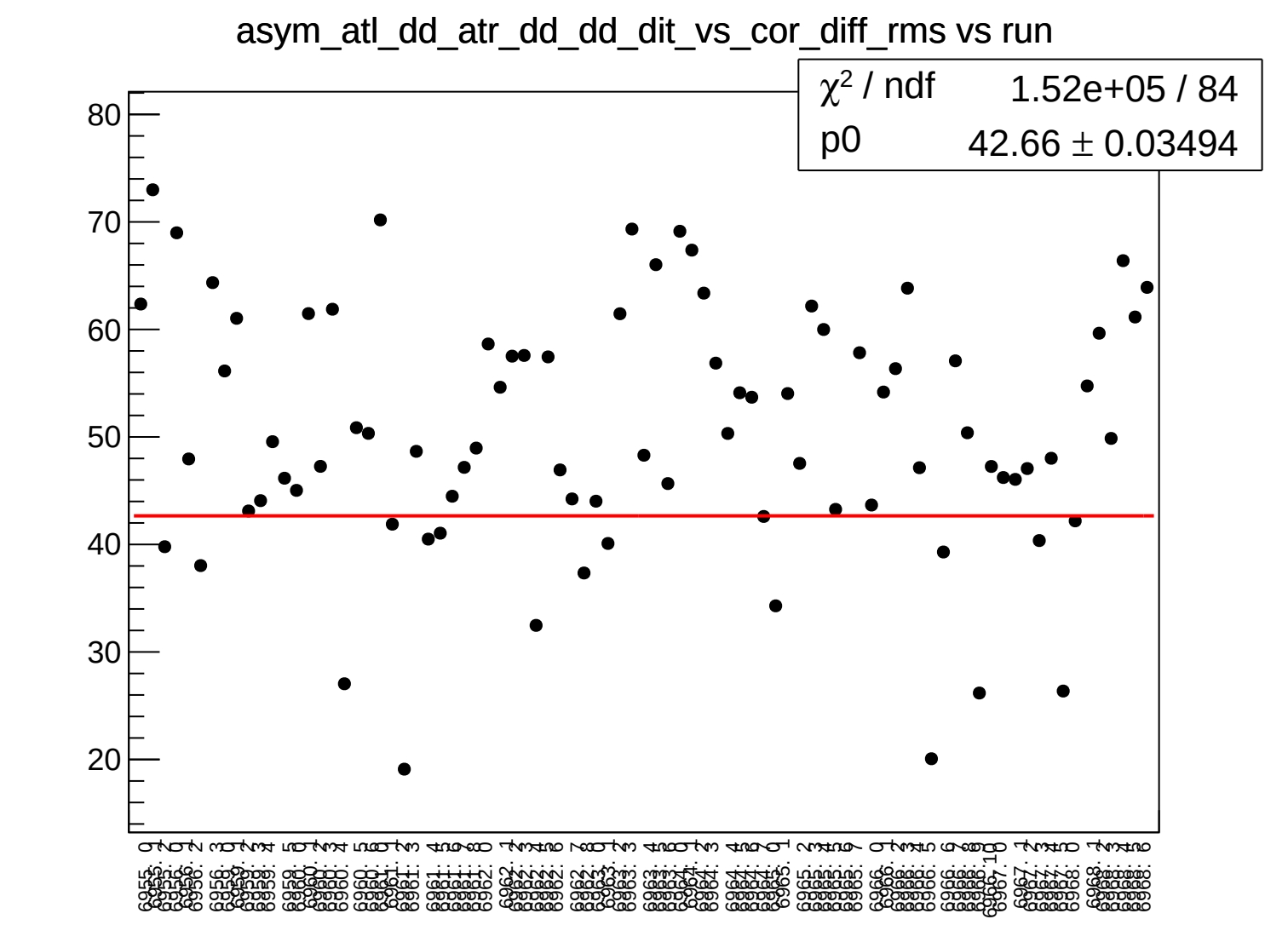

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 698.4 / 84
p0 1430 ± 1.116
1600
1550
1500
1450
1400
1350

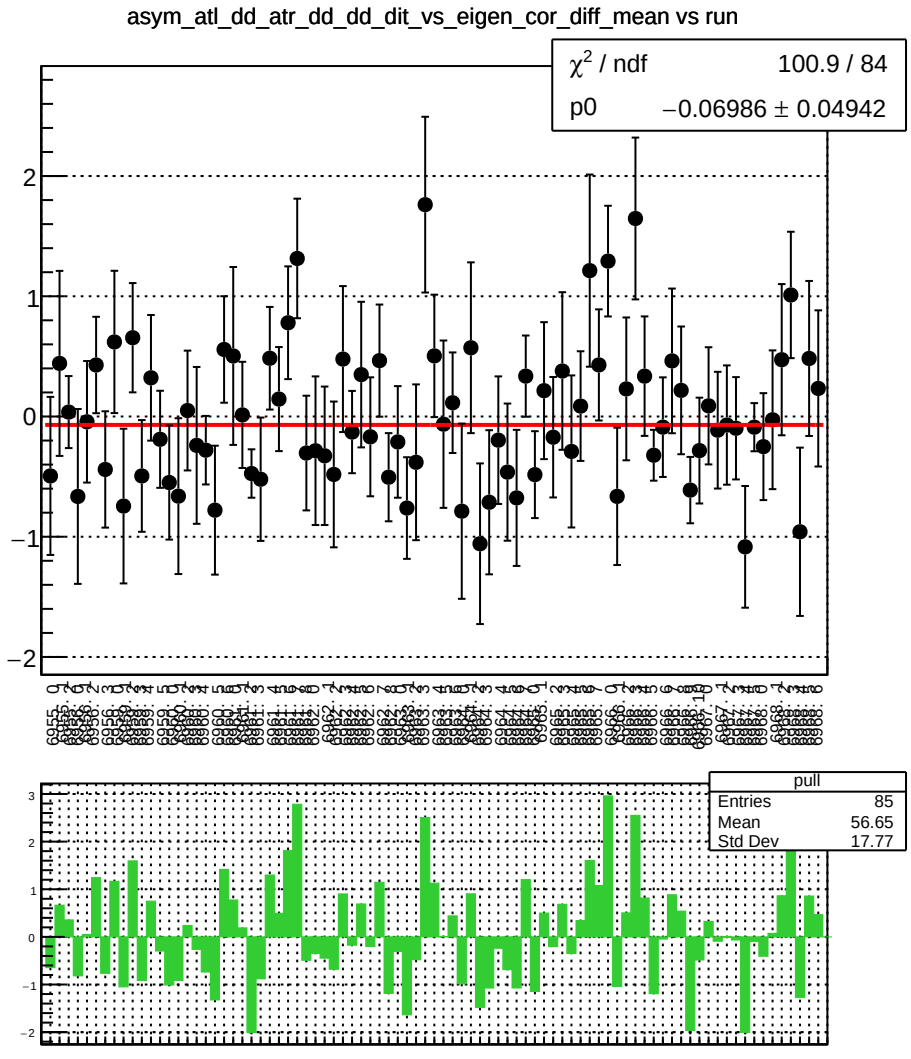

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.13 / 84
p0 −1.423e−14 ± 4.893e−14
pull
Entries 85
Mean −5.414
Std Dev 32.97
pull1D
Entries 85
Mean −0.03919
Std Dev 0.9267

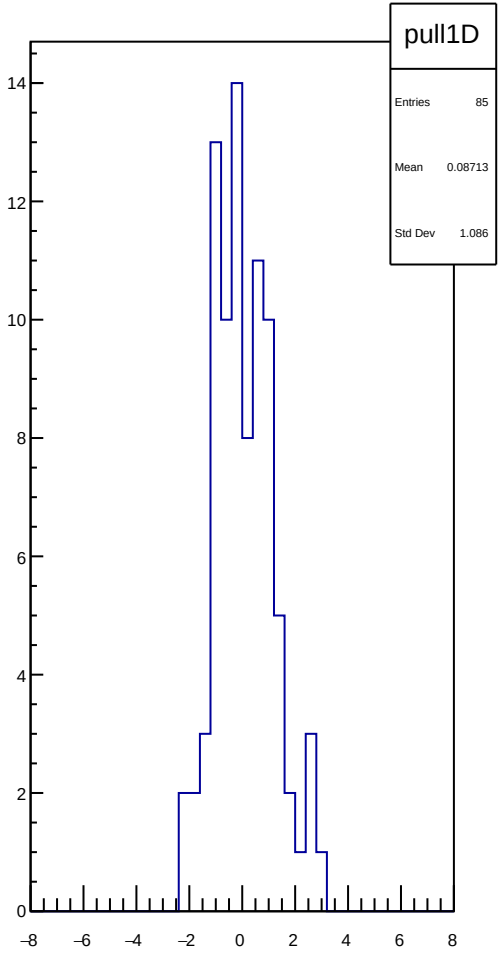

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 84
p0 2.675e−11 ± 3.46e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

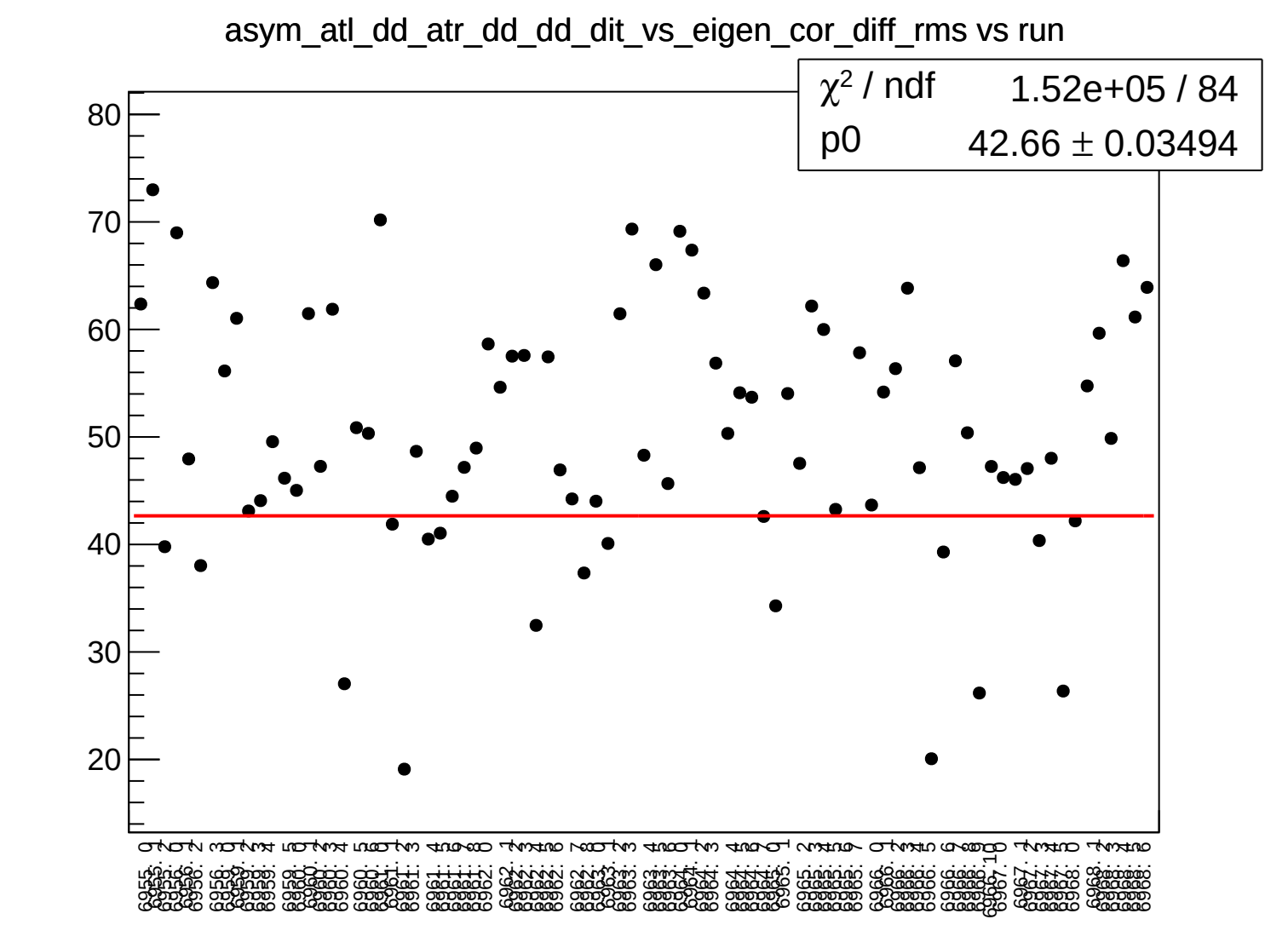

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 84
p0 −0.06986 ± 0.04942
pull
Entries 85
Mean 56.65
Std Dev 17.77

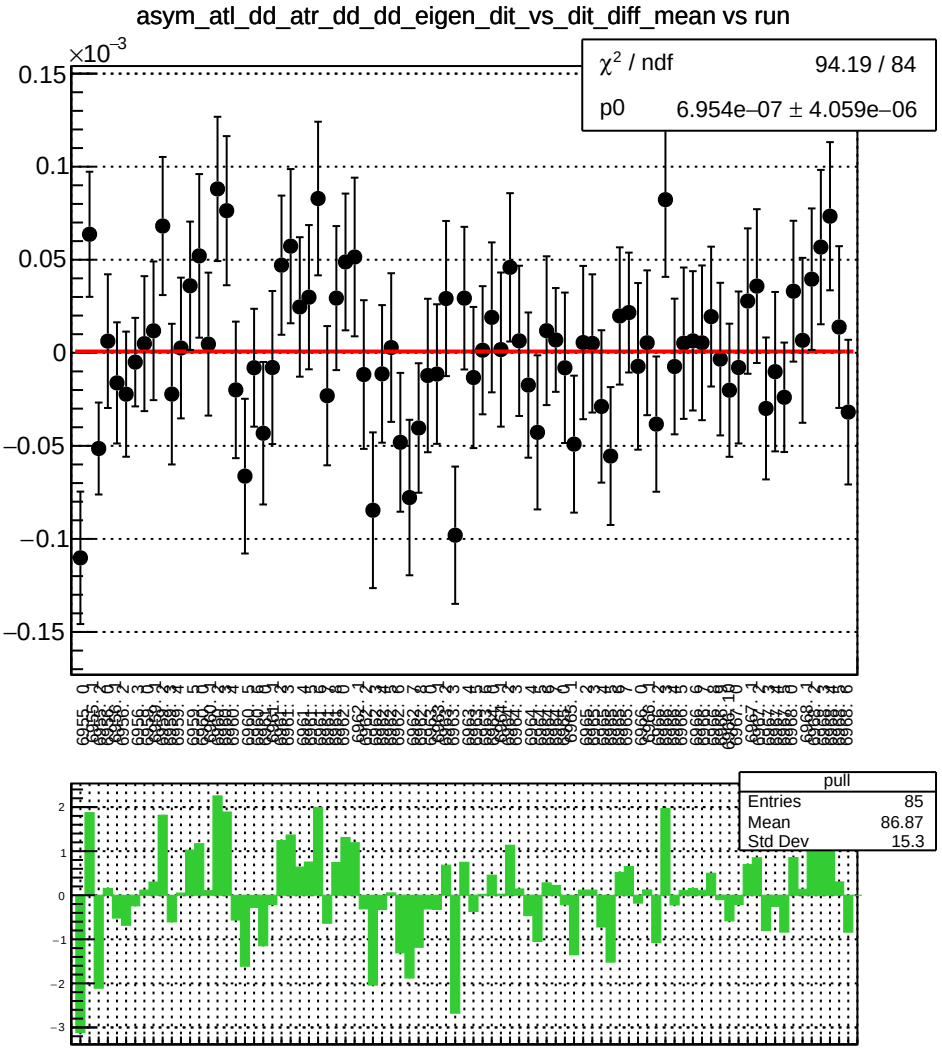

pull1D
Entries 85
Mean 0.08713
Std Dev 1.086

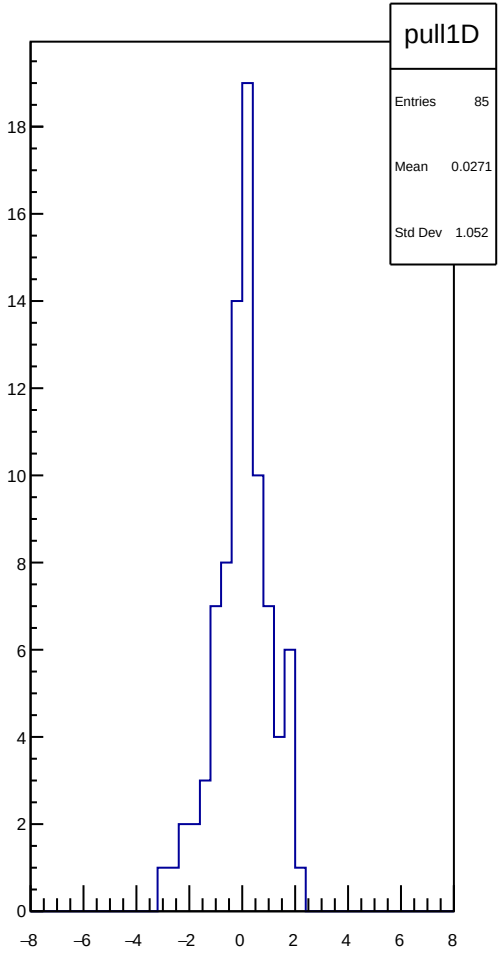

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.52e+05 / 84
p0 42.66 ± 0.03494
80
70
60
50
40
30
20

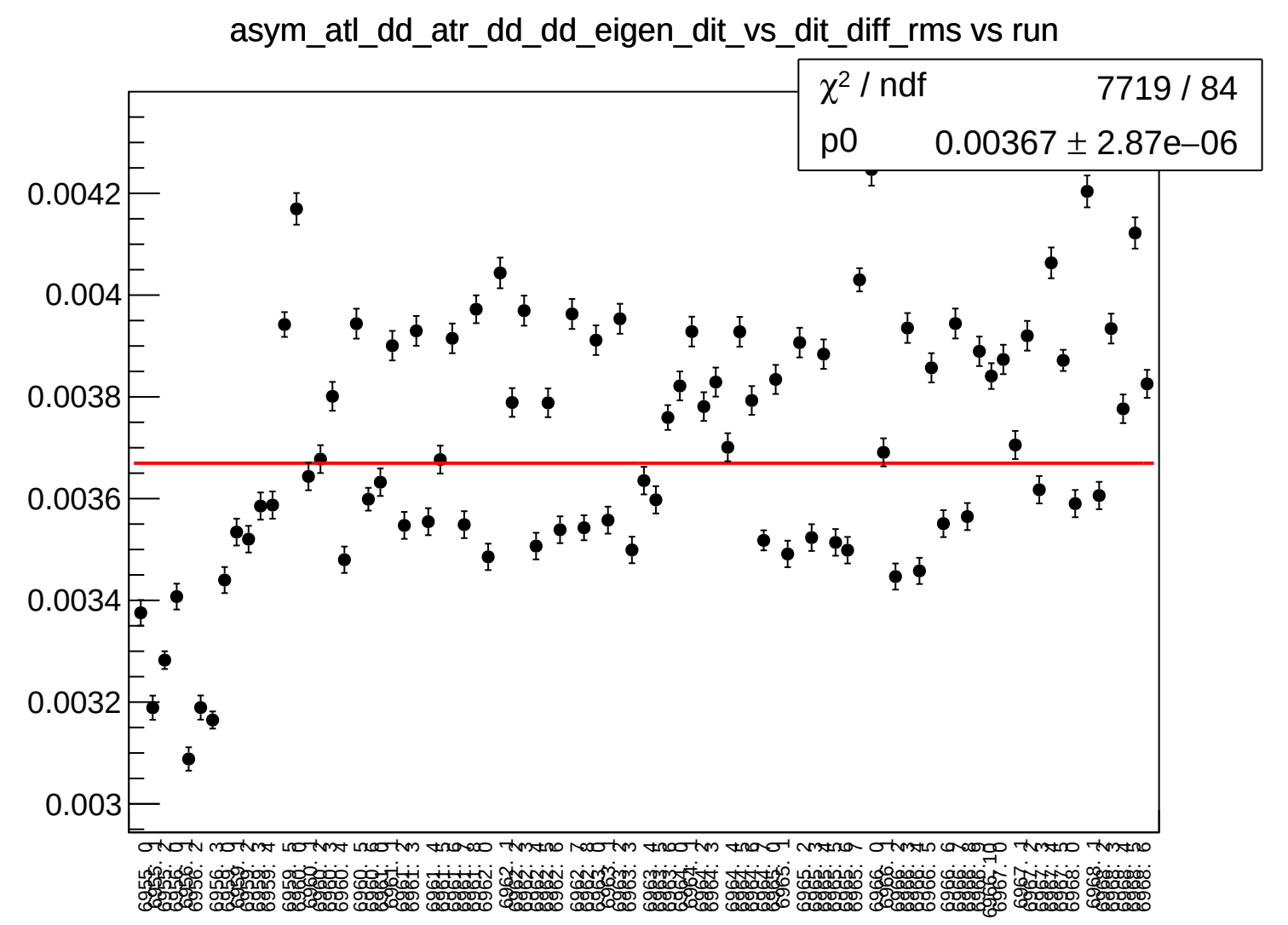

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 84
p0 −0.06986 ± 0.04942
pull
Entries 85
Mean 56.65
Std Dev 17.77

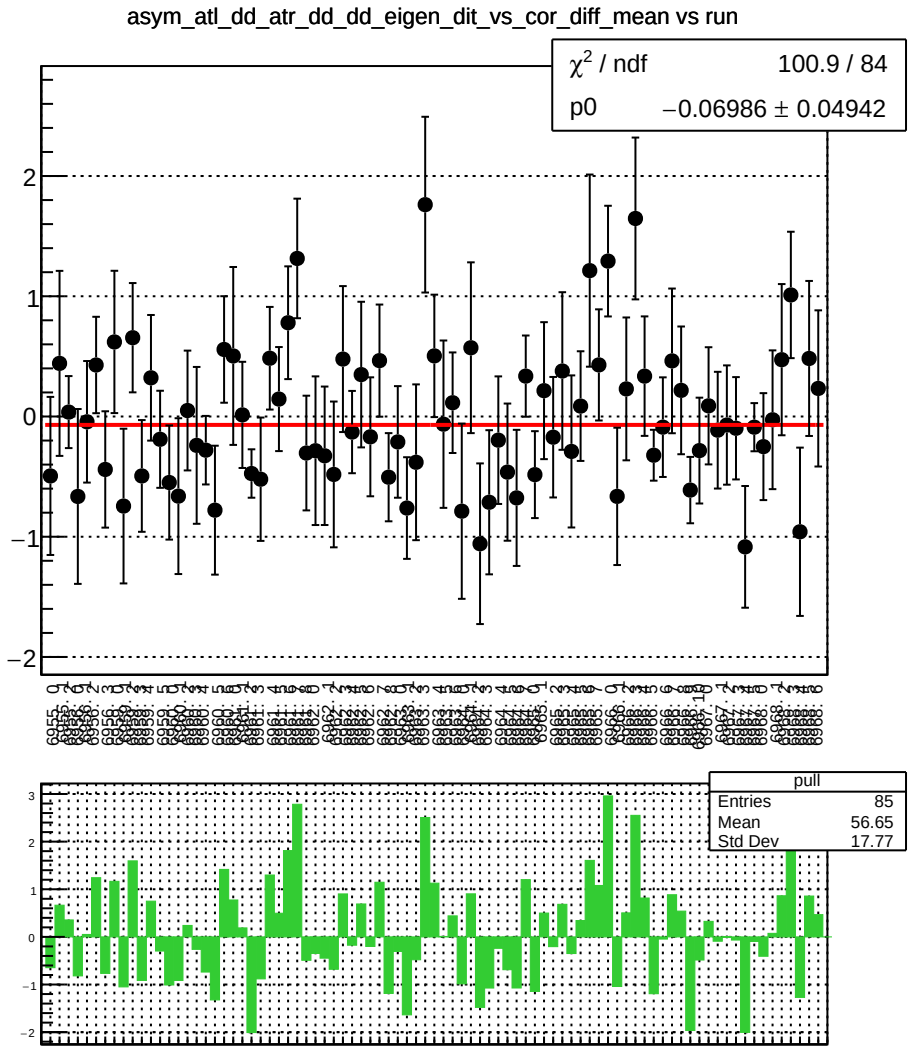

pull1D
Entries 85
Mean 0.08713
Std Dev 1.086

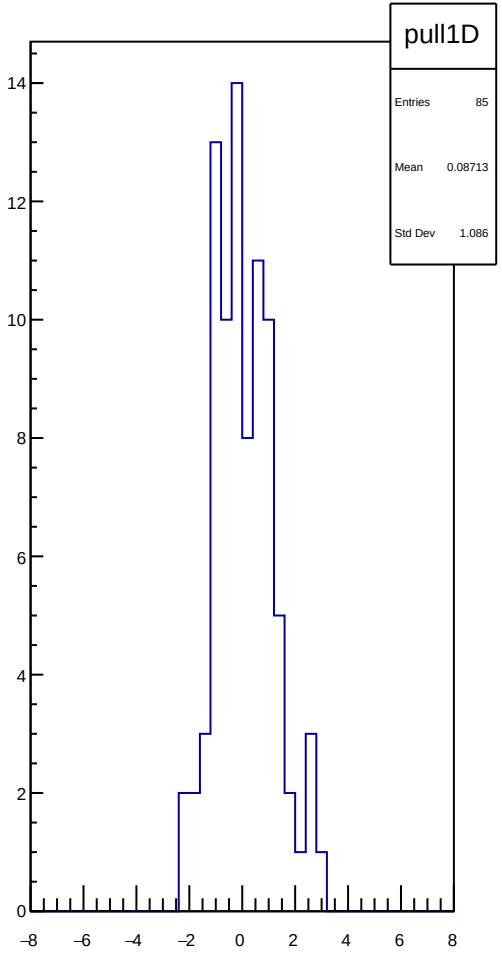

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.52e+05 / 84
p0 42.66 ± 0.03494
80
70
60
50
40
30
20

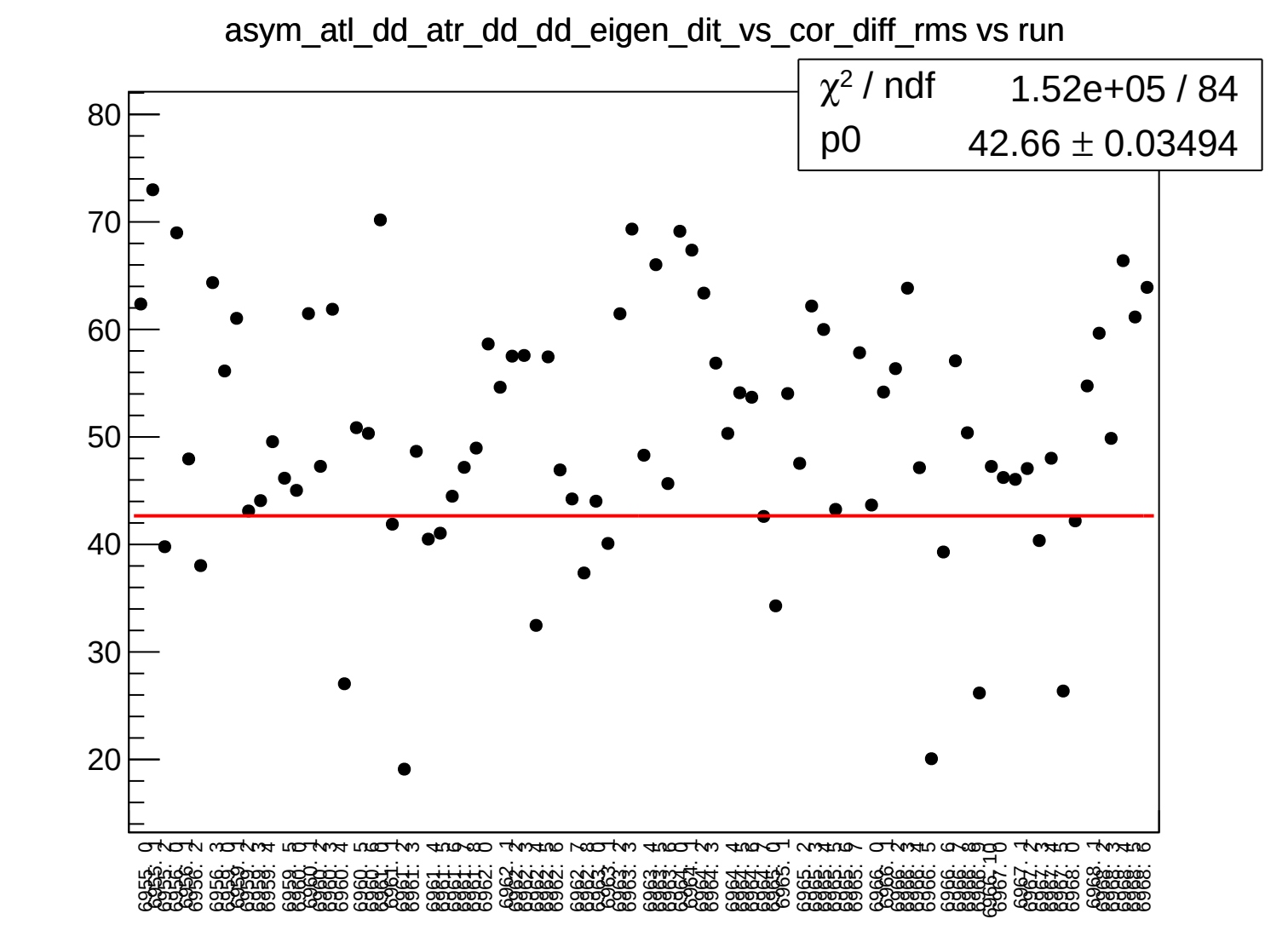

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 94.19 / 84
p0 6.954e−07 ± 4.059e−06
pull
Entries 85
Mean 86.87
Std Dev 15.3

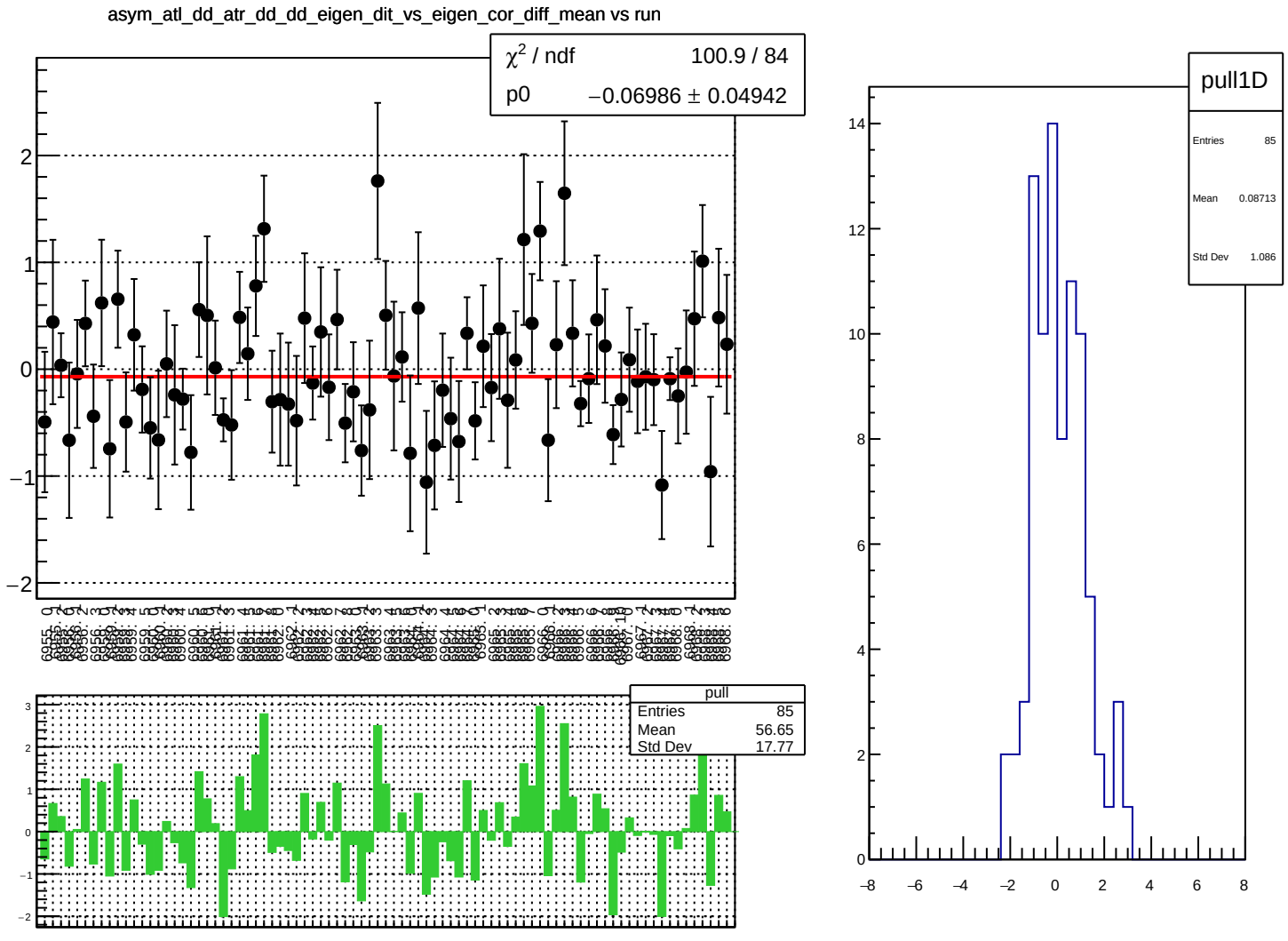

pull1D
Entries 85
Mean 0.0271
Std Dev 1.052

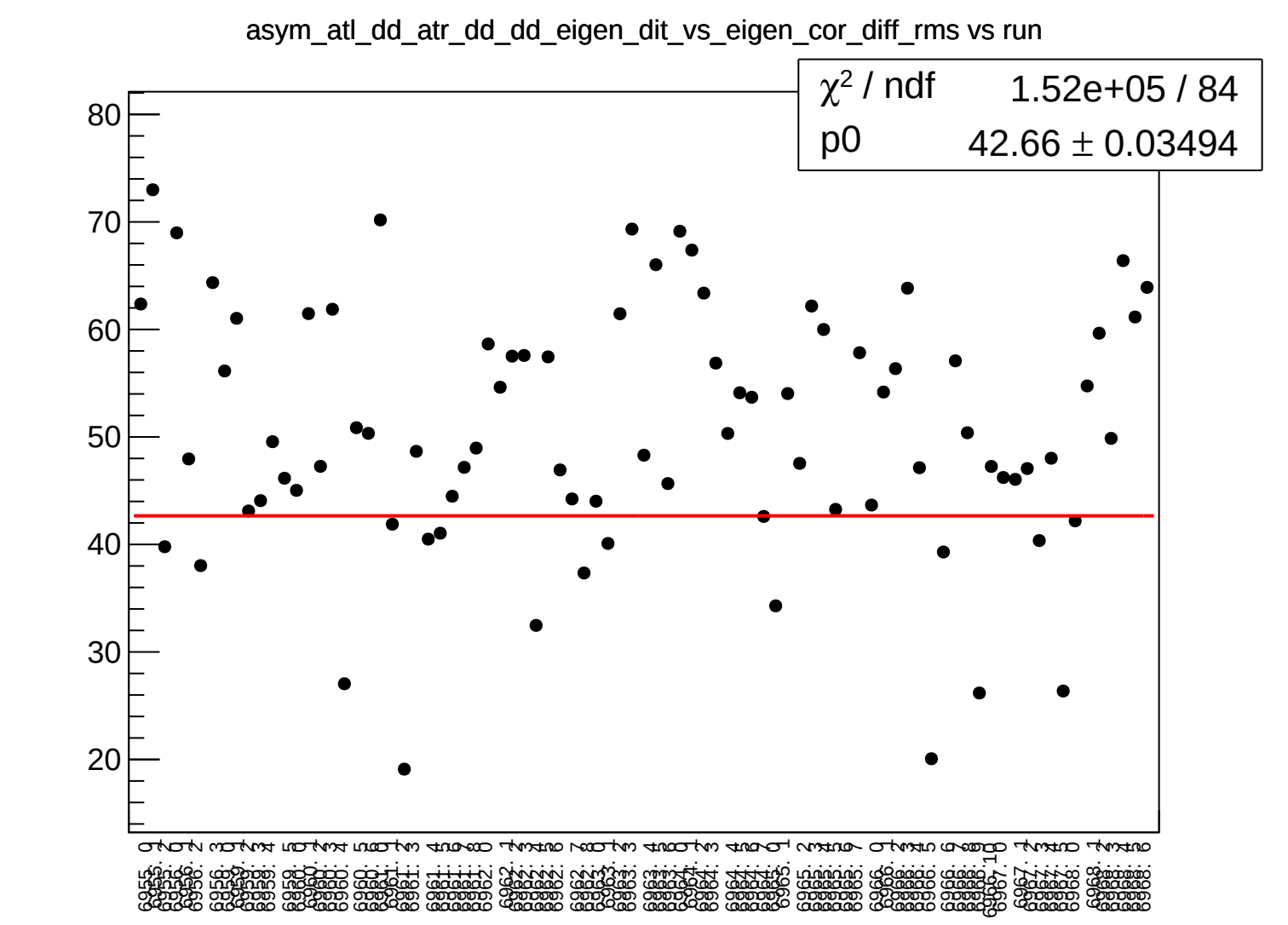

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7719 / 84
p0 0.00367 ± 2.87e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

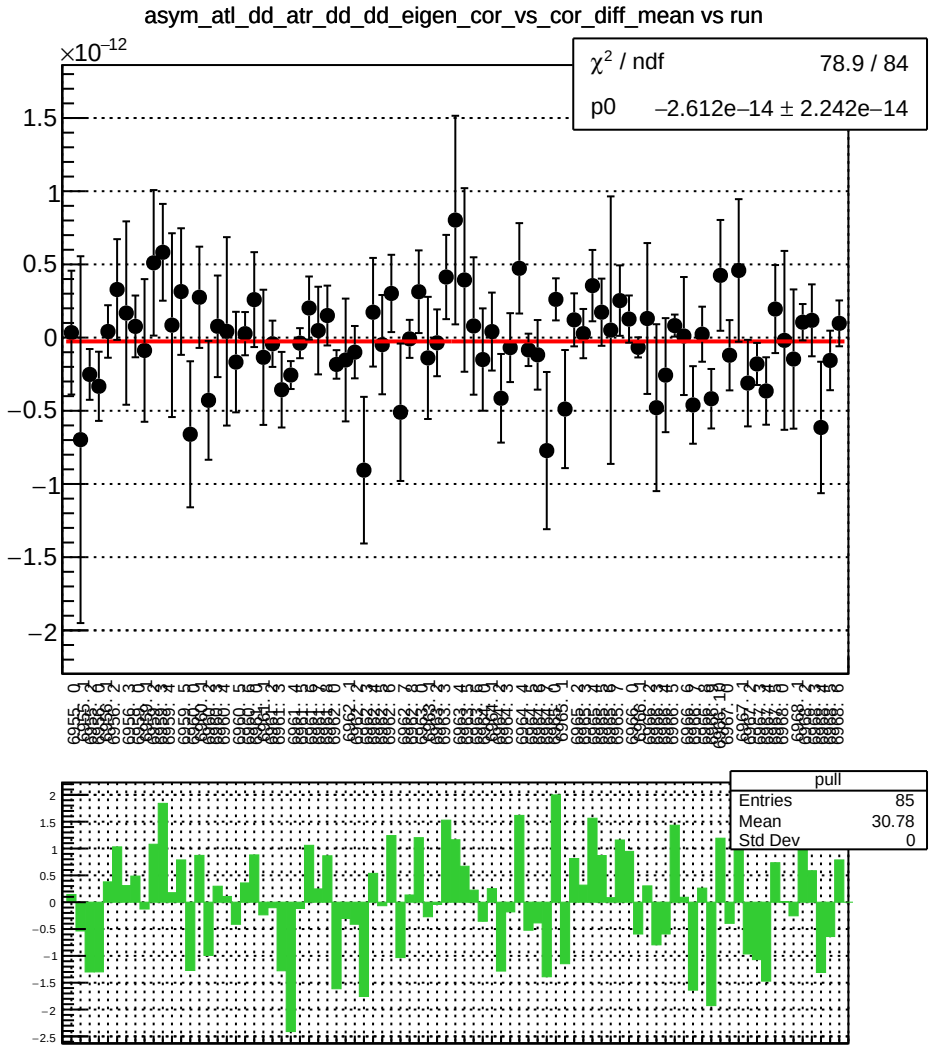

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 84
p0 −0.06986 ± 0.04942
pull
Entries 85
Mean 56.65
Std Dev 17.77

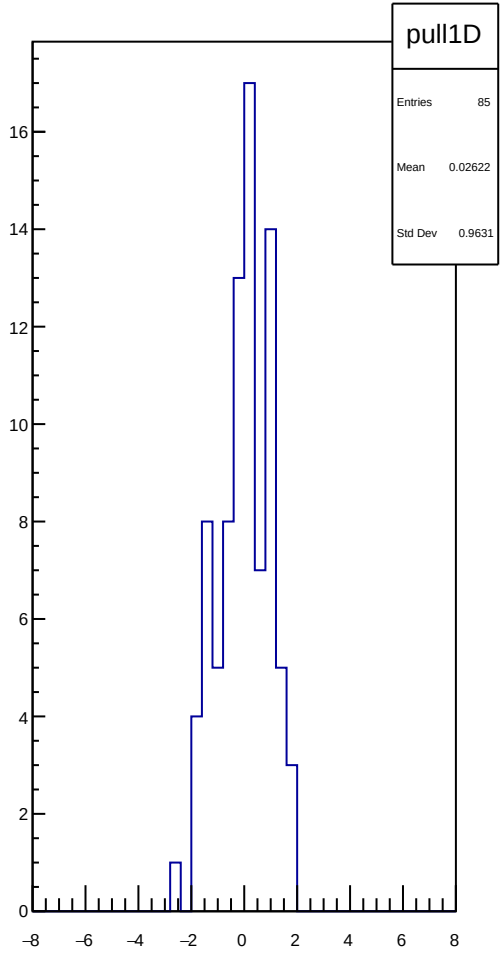

pull1D
Entries 85
Mean 0.08713
Std Dev 1.086

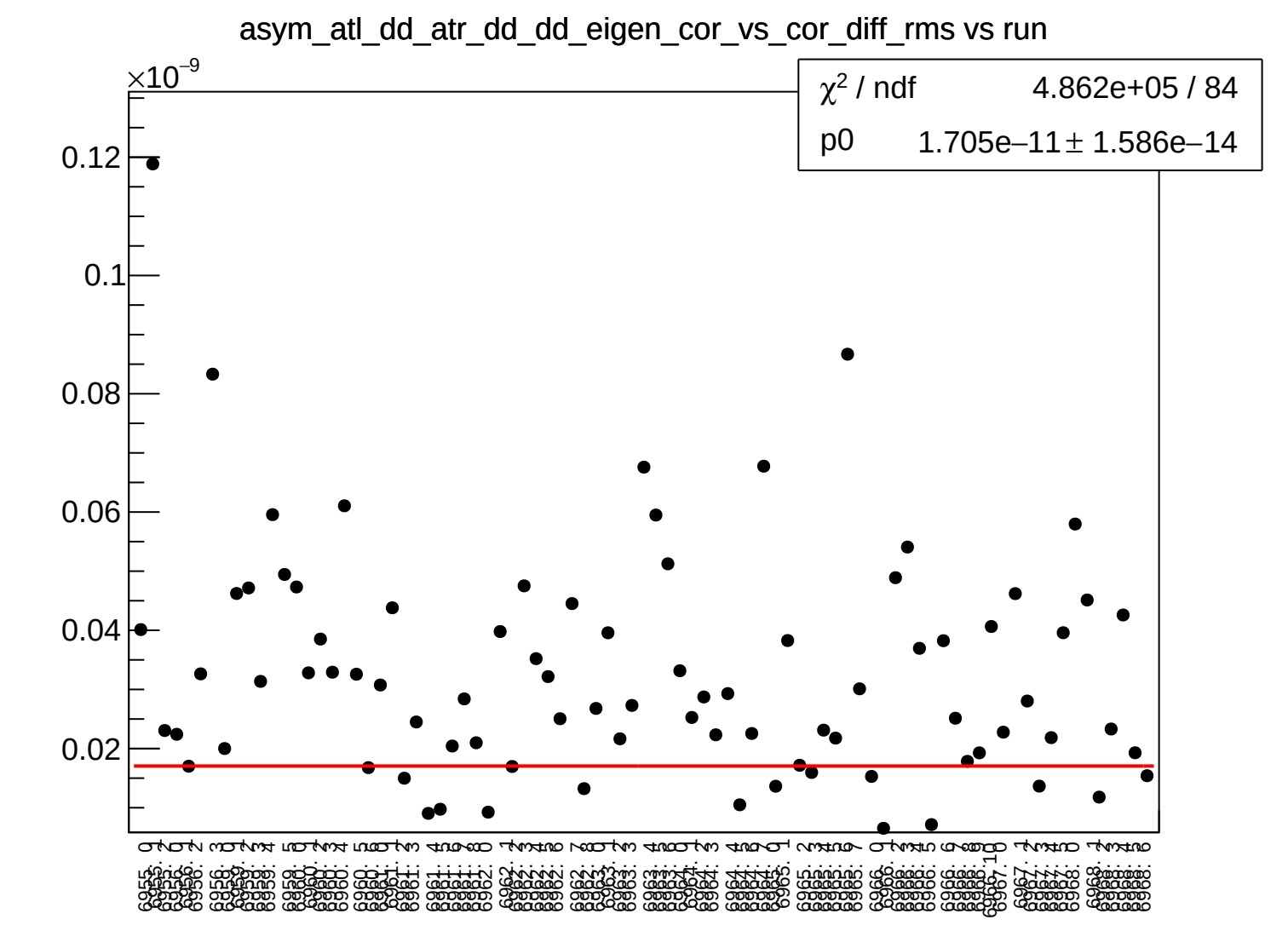

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.52e+05 / 84
p0 42.66 ± 0.03494
80
70
60
50
40
30
20

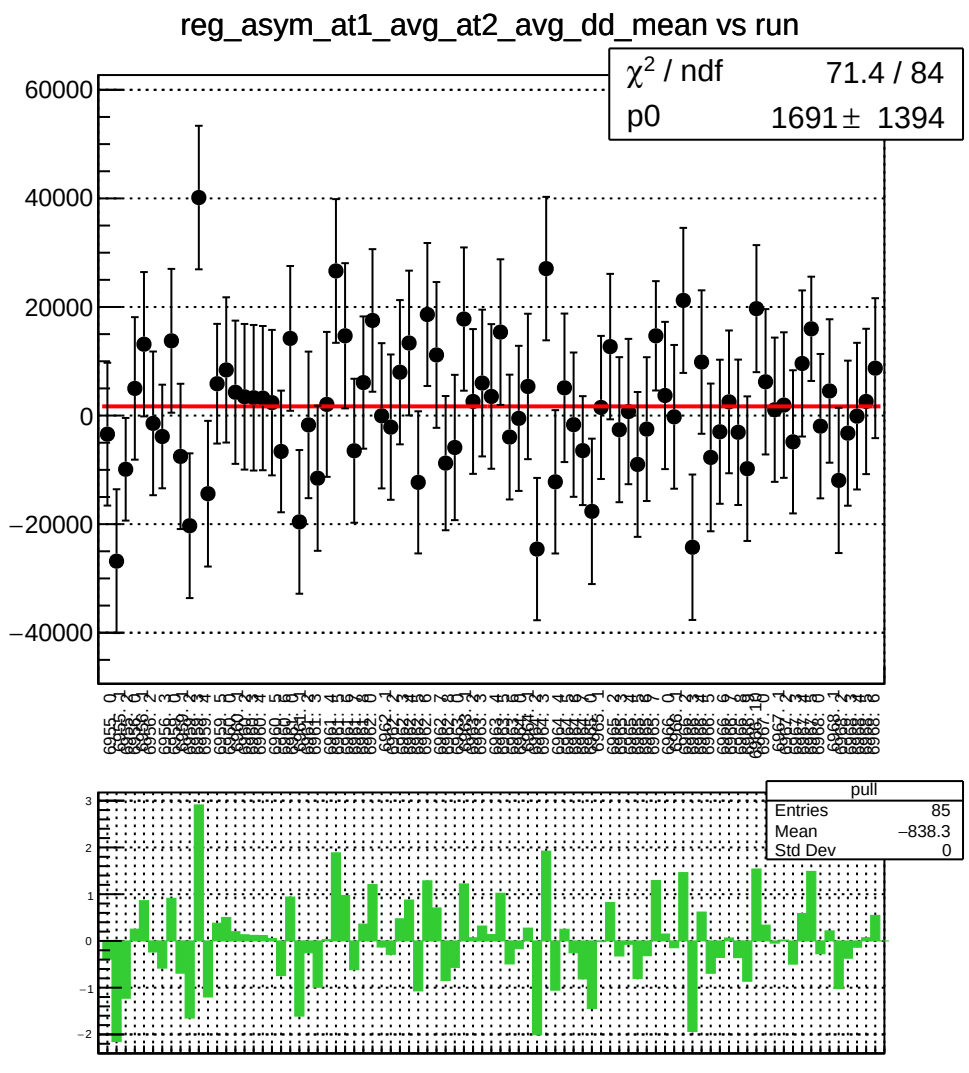

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 84
p0 −0.06986 ± 0.04942
pull
Entries 85
Mean 56.65
Std Dev 17.77
pull1D
Entries 85
Mean 0.08713
Std Dev 1.086

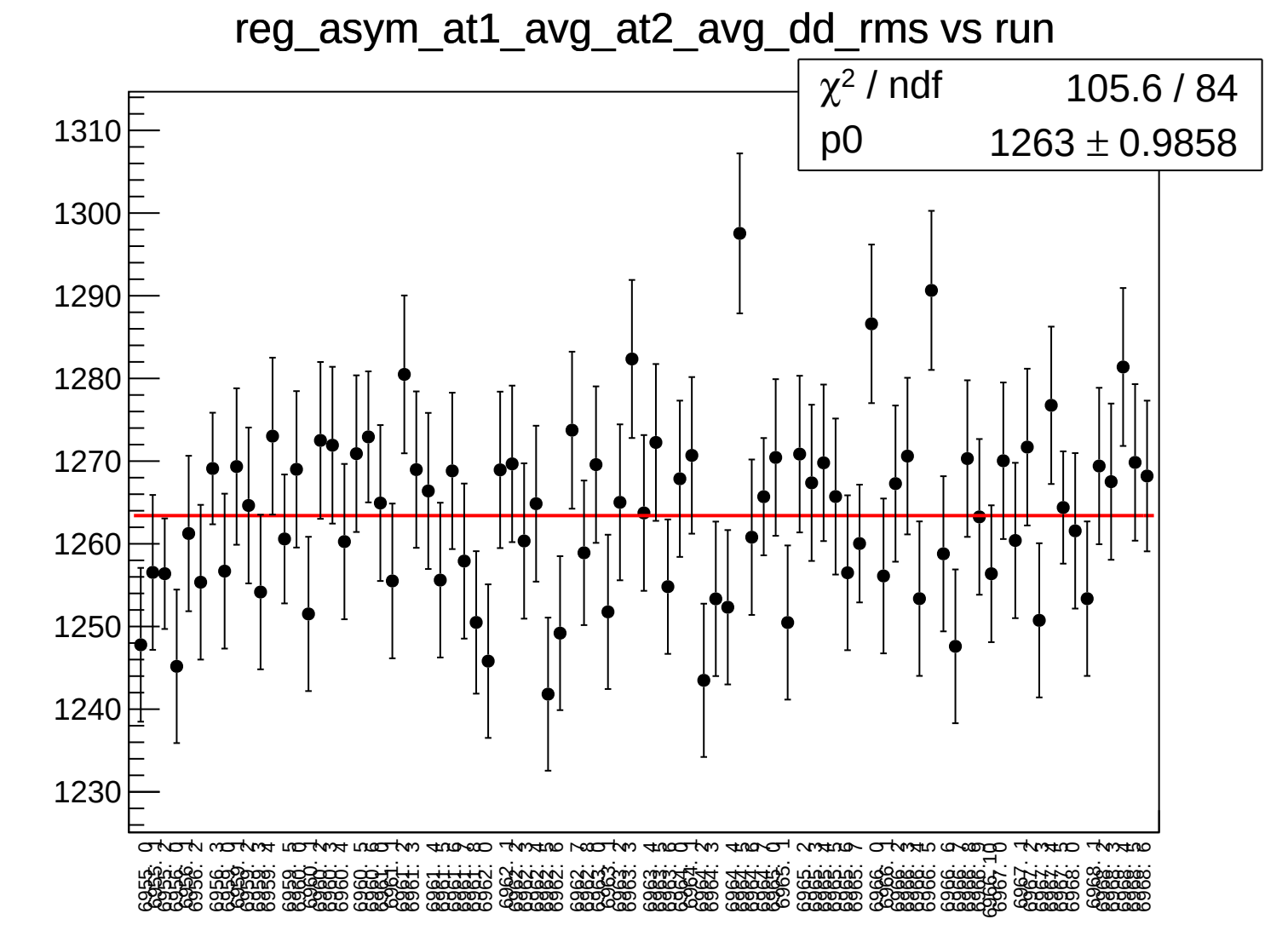

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.52e+05 / 84
p0 42.66 ± 0.03494
80
70
60
50
40
30
20

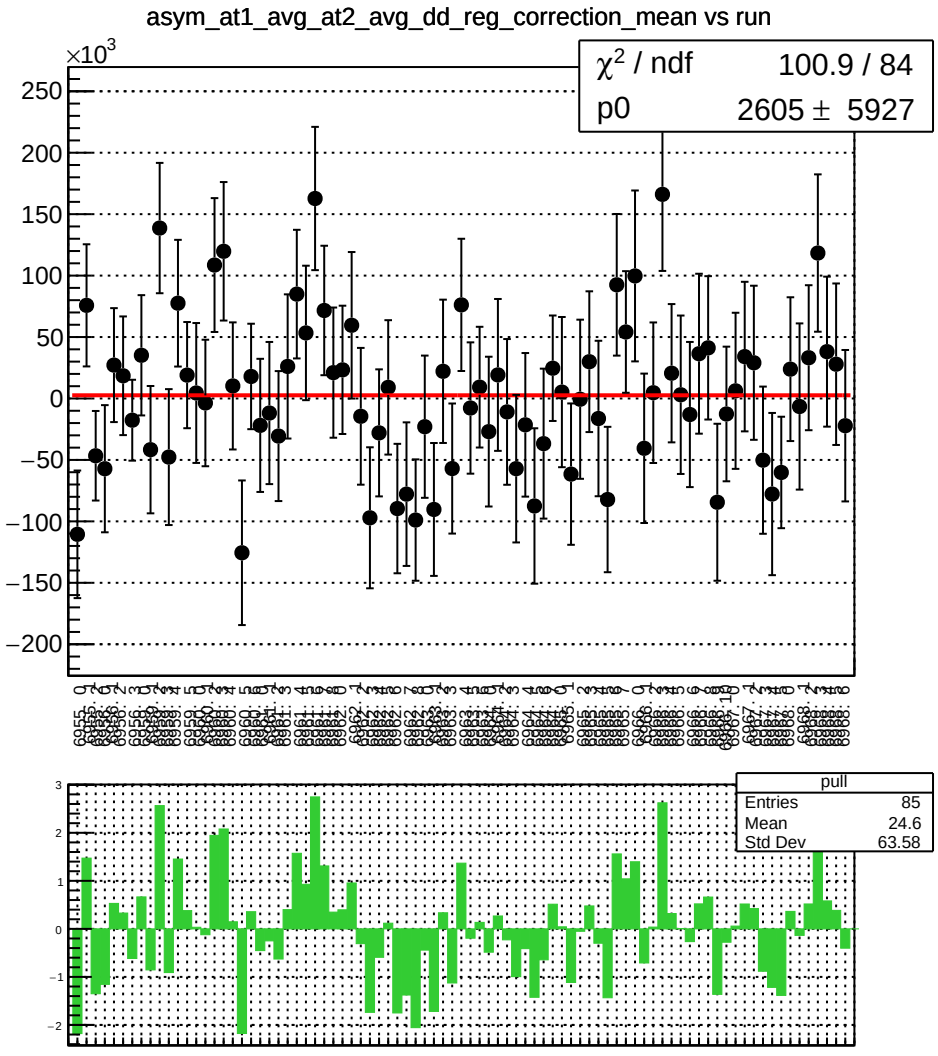

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.9 / 84
p0 −2.612e−14 ± 2.242e−14
pull
Entries 85
Mean 30.78
Std Dev 0

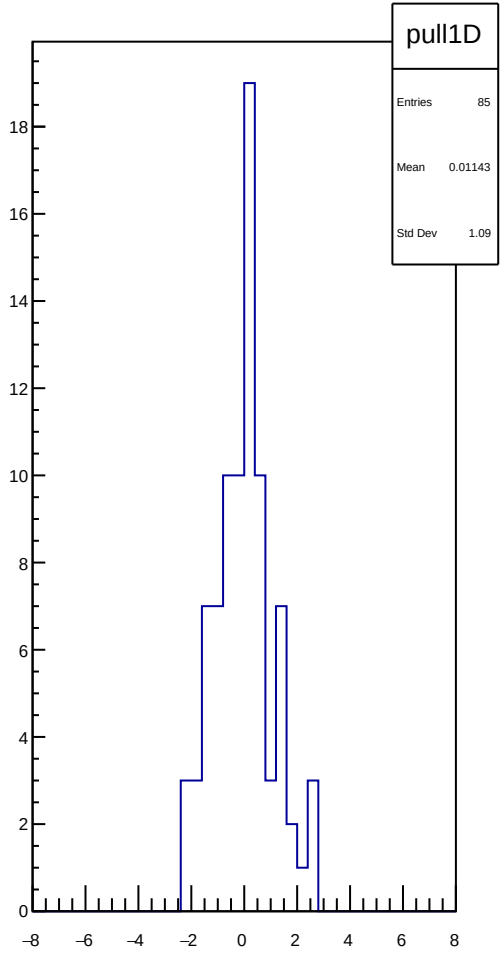

pull1D
Entries 85
Mean 0.02622
Std Dev 0.9631

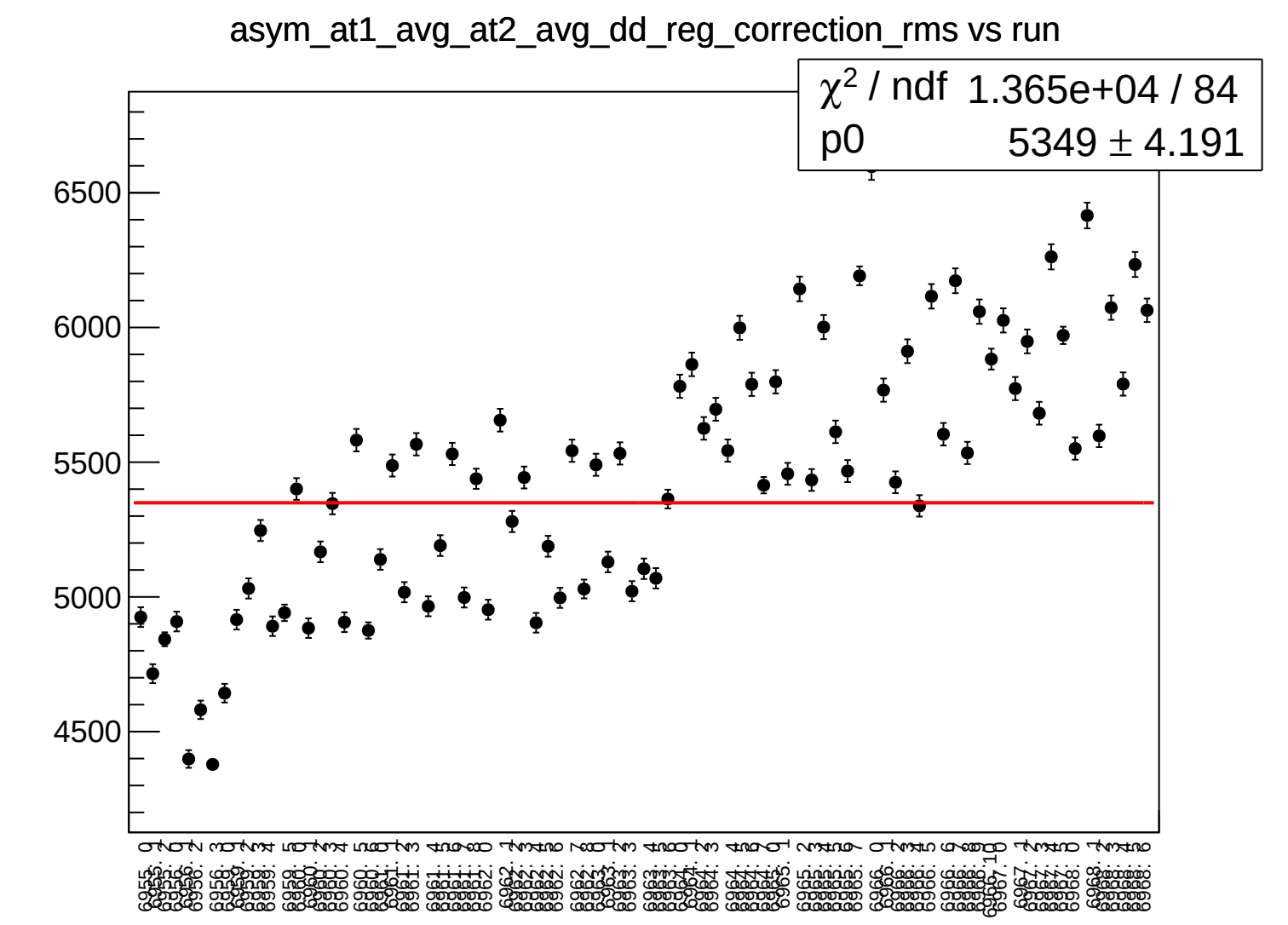

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.862e+05 / 84
p0 1.705e−11 ± 1.586e−14
0.12
0.1
0.08
0.06
0.04
0.02

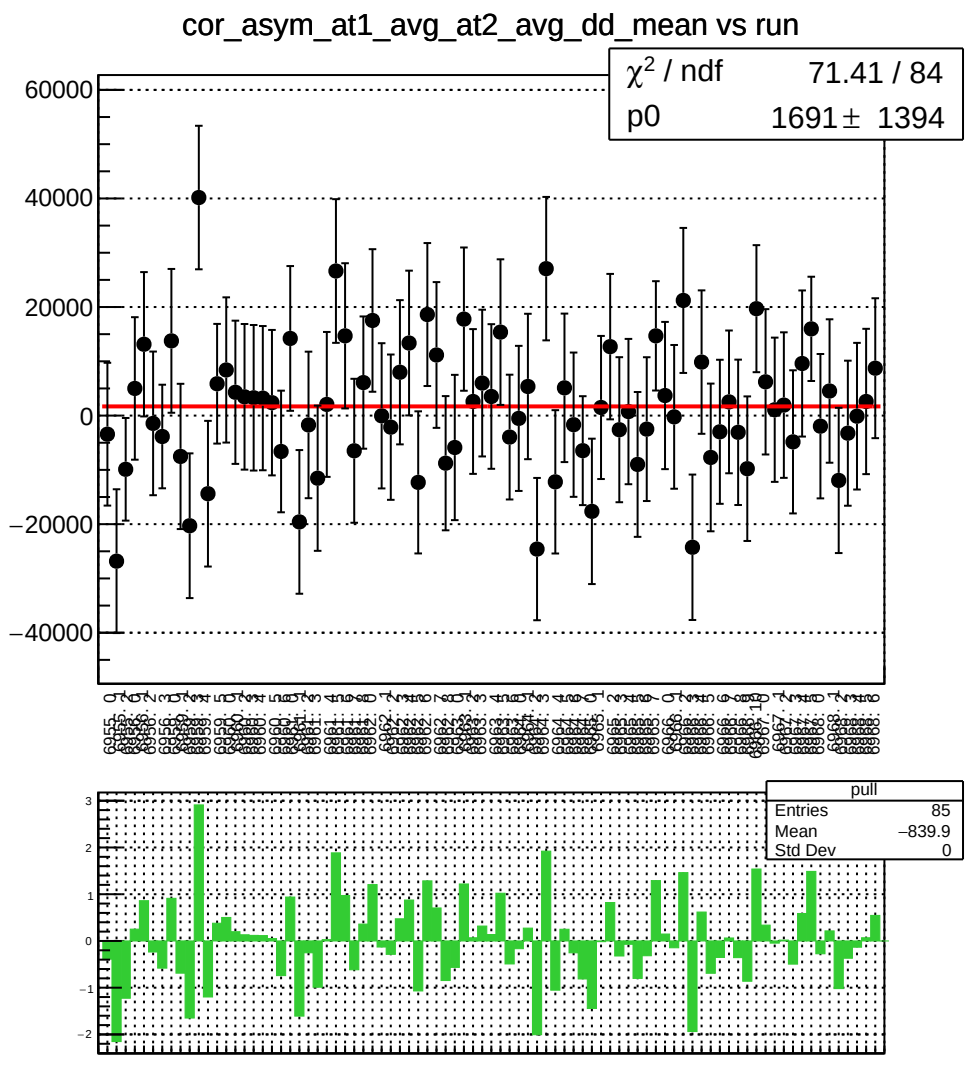

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 71.4 / 84
p0 1691 ± 1394
pull
Entries 85
Mean −838.3
Std Dev 0
pull1D
Entries 85
Mean −0.0009723
Std Dev 0.9165

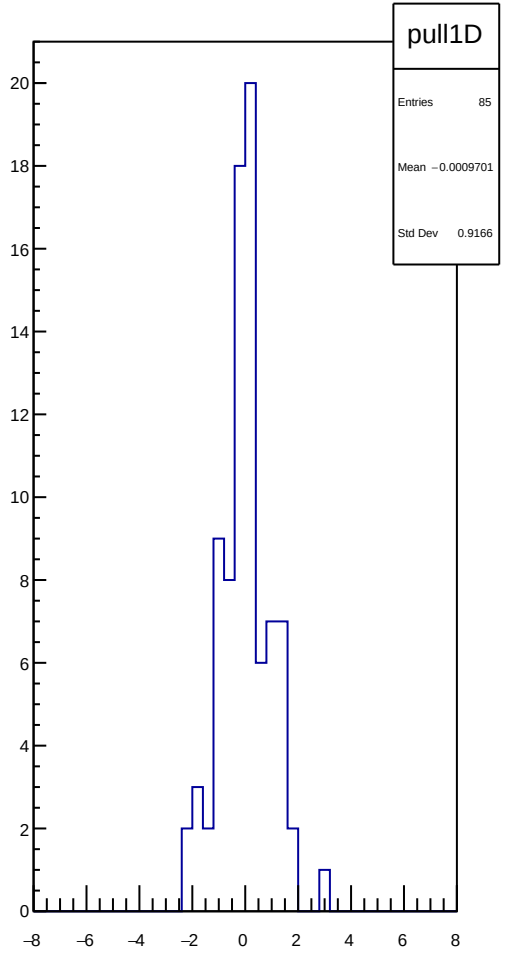

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 105.6 / 84
p0 1263 ± 0.9858
1310
1300
1290
1280
1270
1260
1250
1240
1230

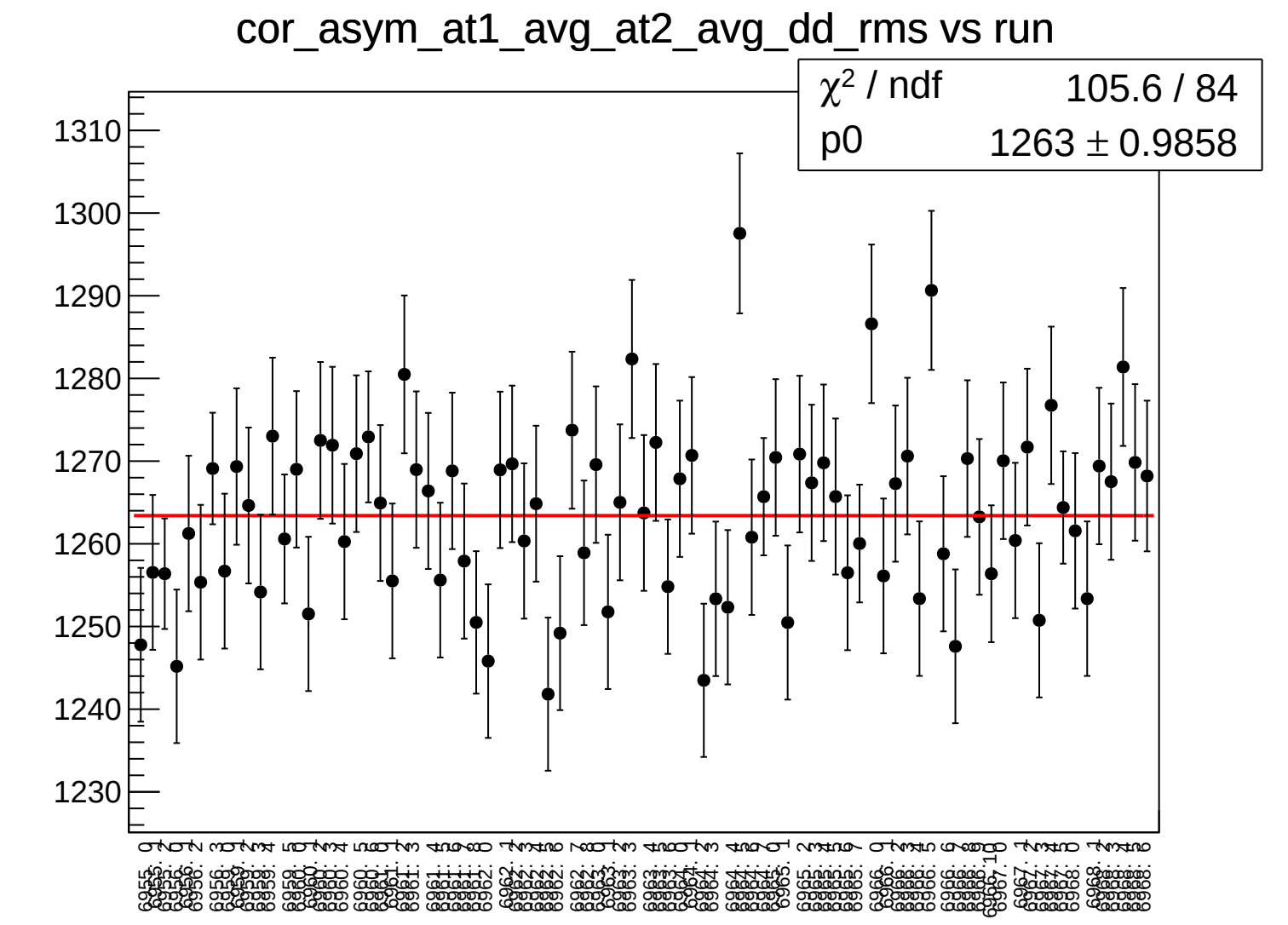

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.9 / 84
p0 2605 ± 5927
pull
Entries 85
Mean 24.6
Std Dev 63.58

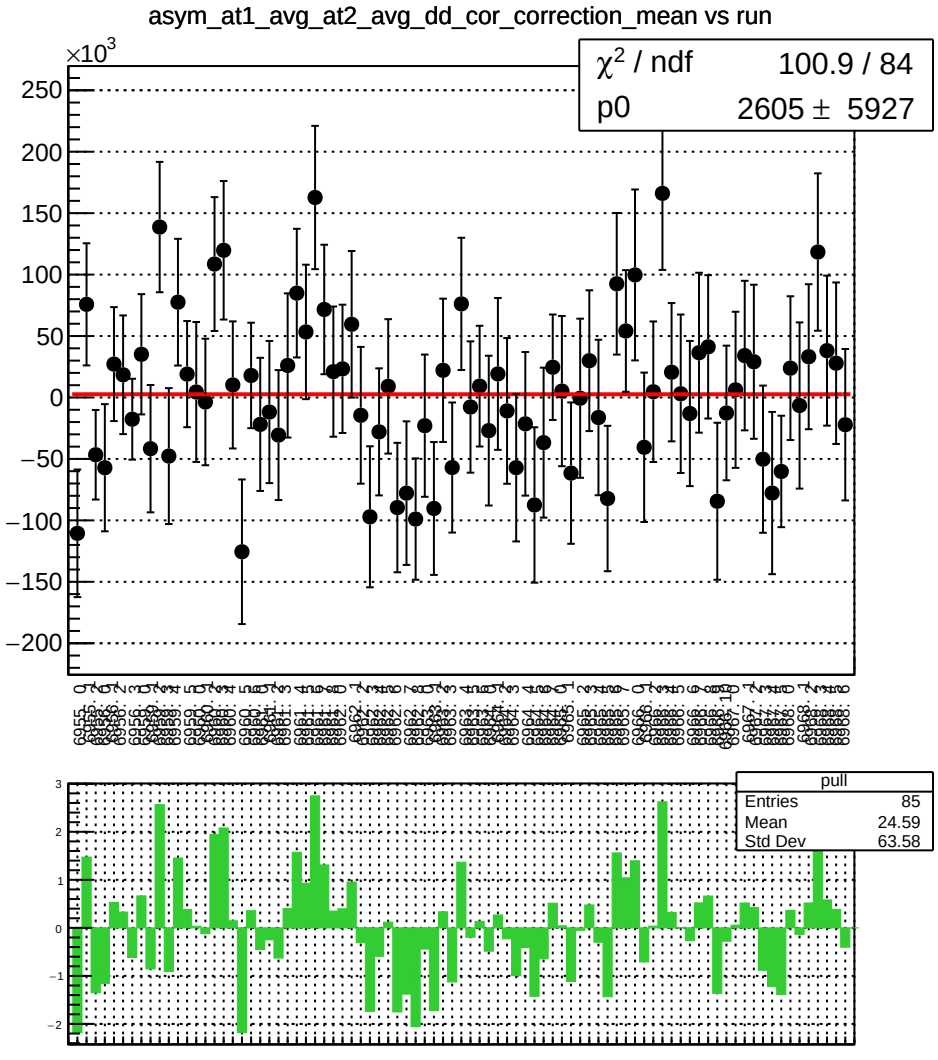

pull1D
Entries 85
Mean 0.01143
Std Dev 1.09

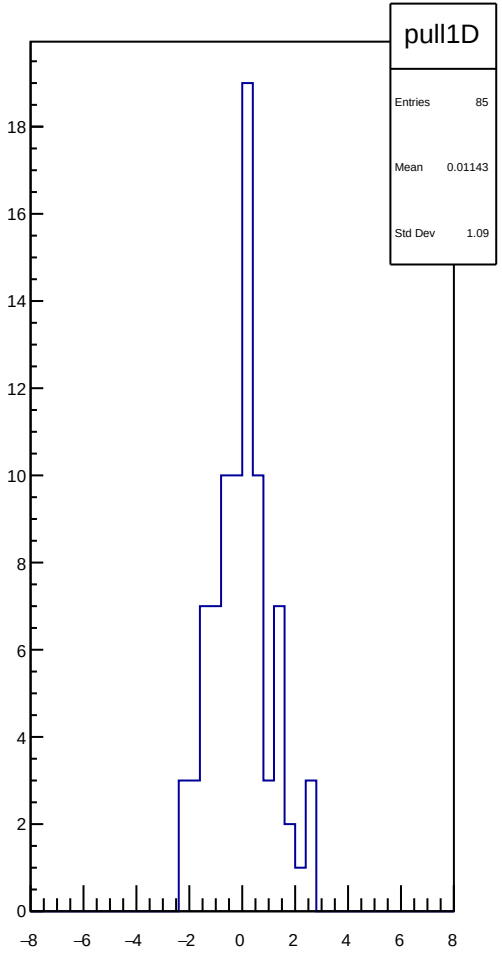

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.365e+04 / 84
p0 5349 ± 4.191
6500
6000
5500
5000
4500

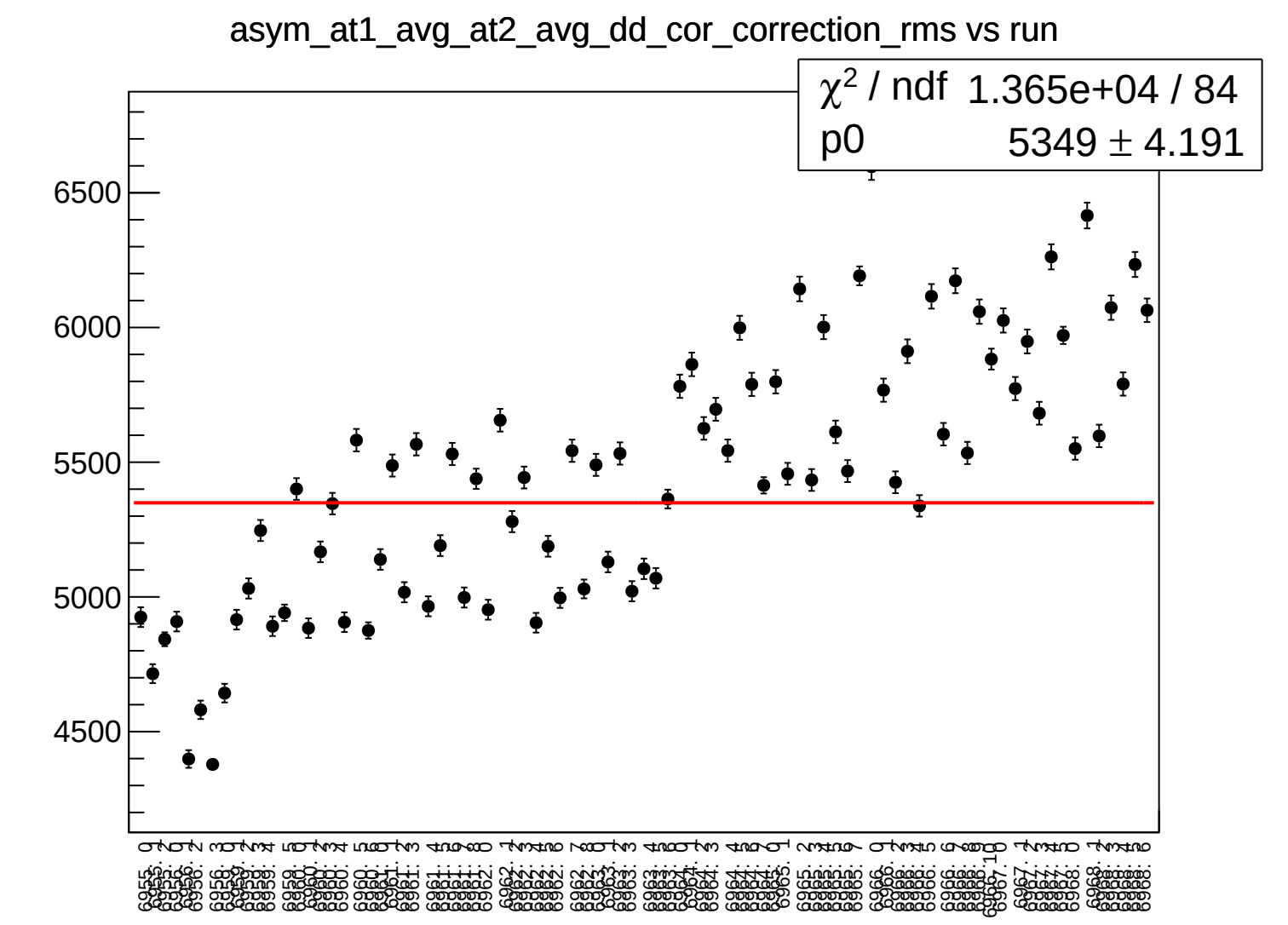

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 71.41 / 84
p0 1691 ± 1394
pull
Entries 85
Mean −839.9
Std Dev 0

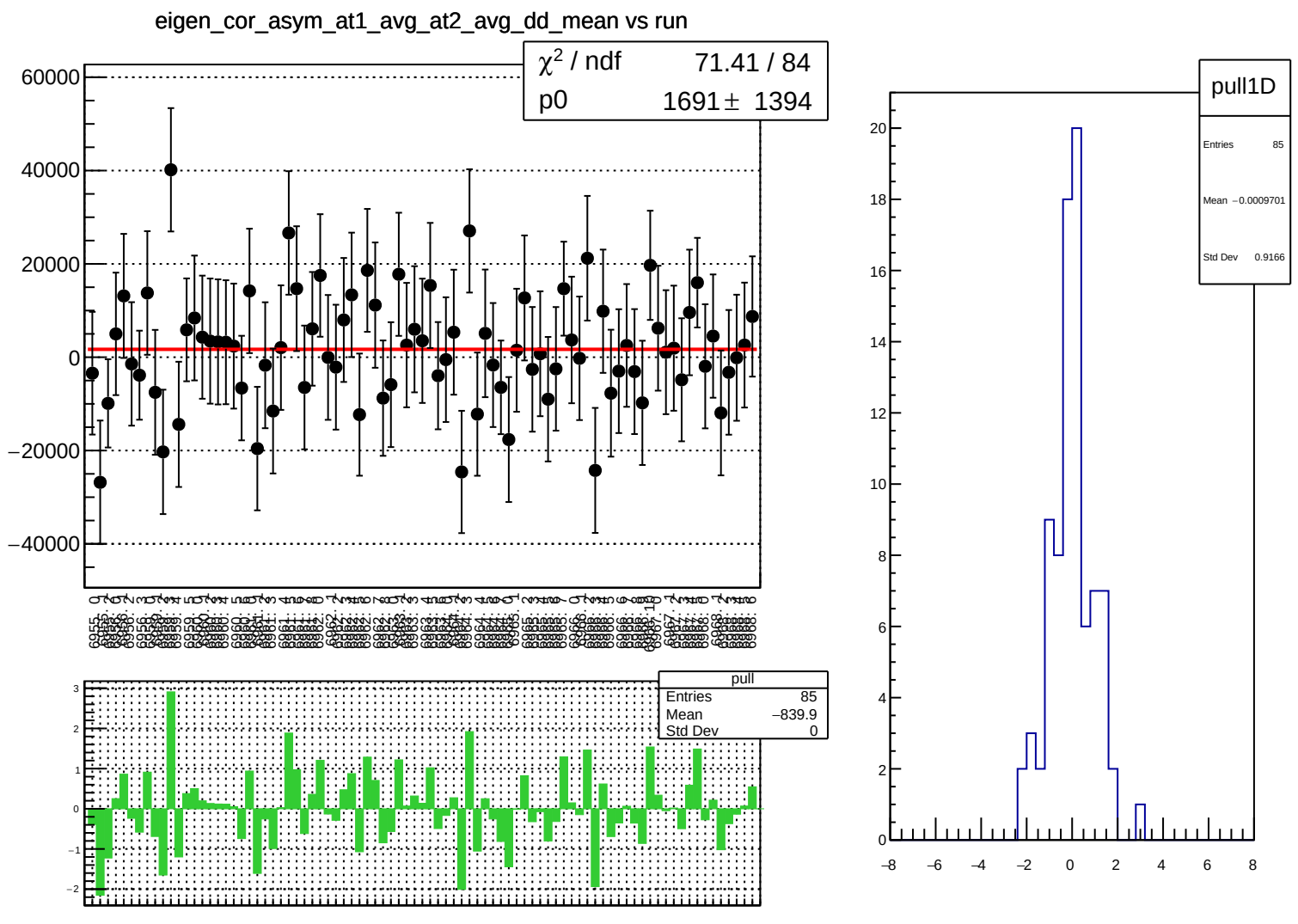

pull1D
Entries 85
Mean −0.0009701
Std Dev 0.9166

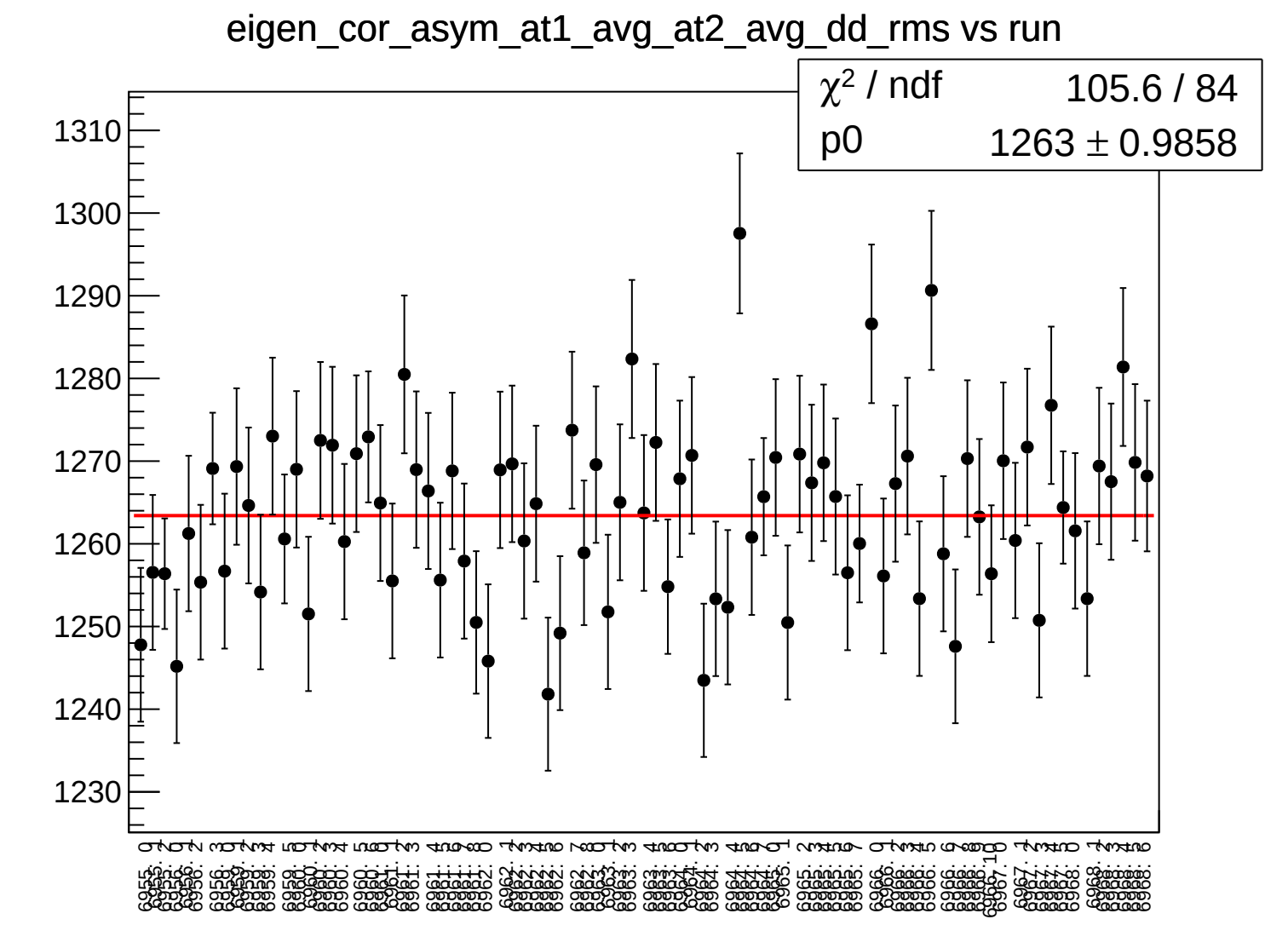

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 105.6 / 84
p0 1263 ± 0.9858
1310
1300
1290
1280
1270
1260
1250
1240
1230

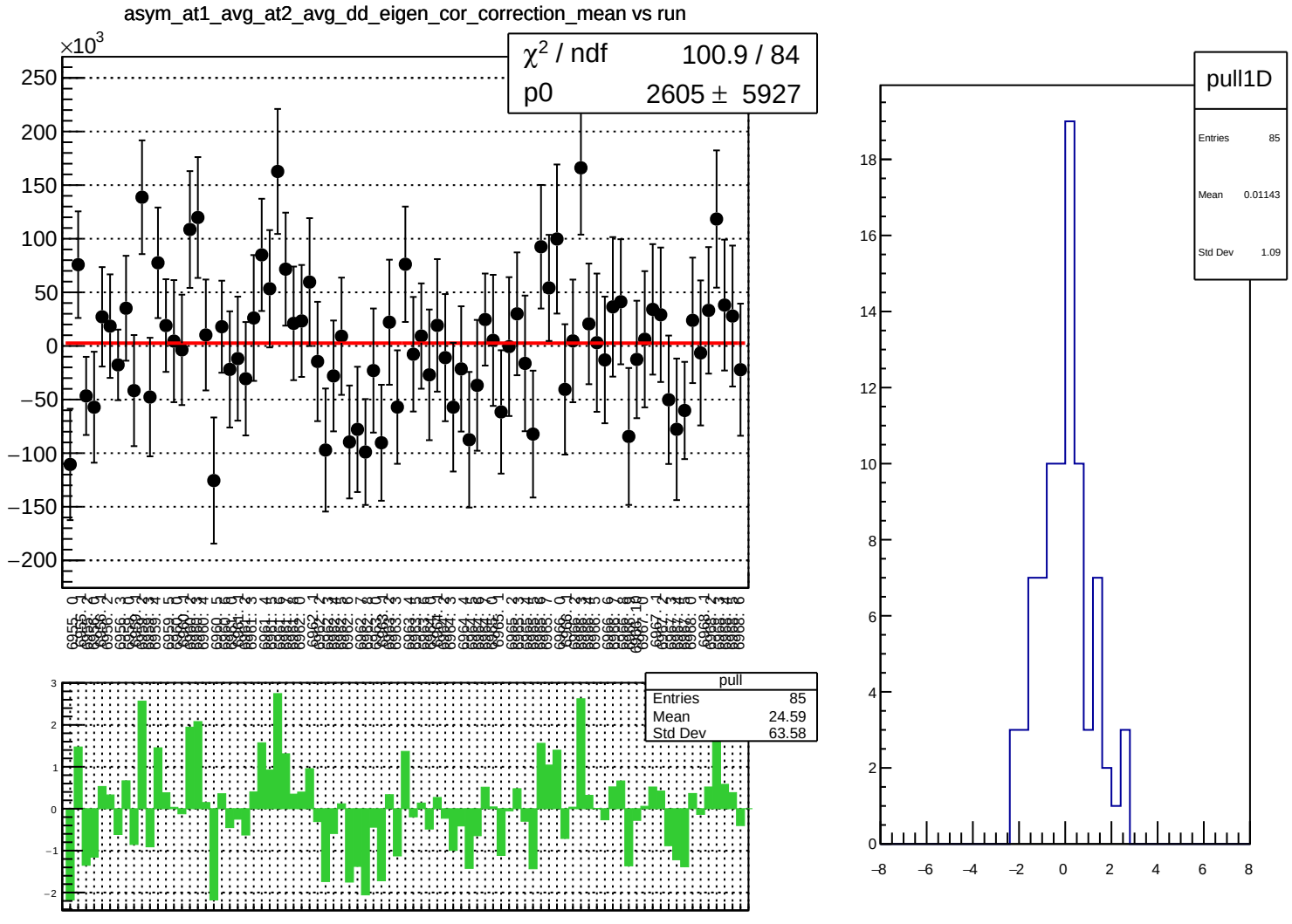

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.9 / 84
p0 2605 ± 5927
pull
Entries 85
Mean 24.59
Std Dev 63.58

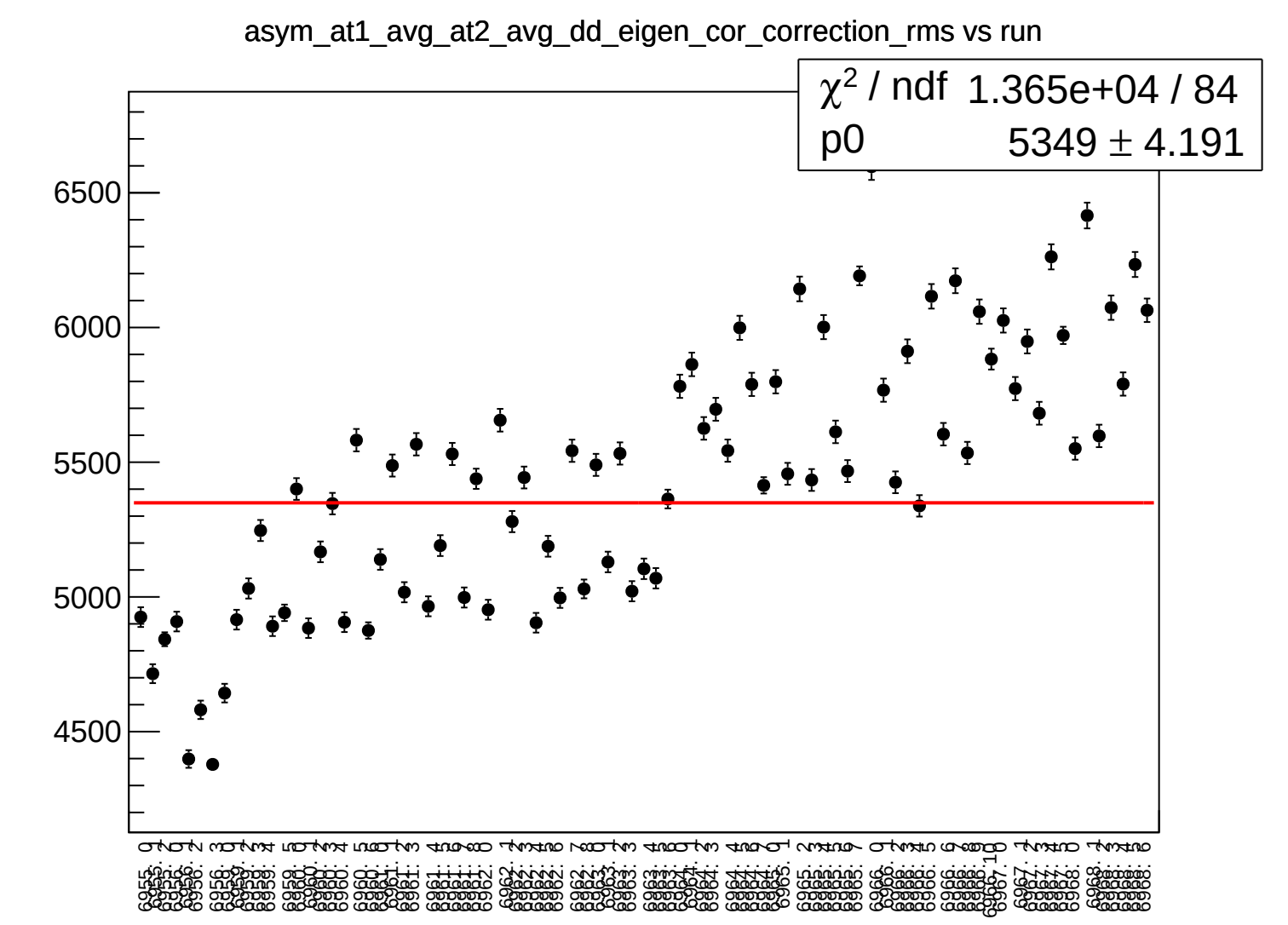

pull1D
Entries 85
Mean 0.01143
Std Dev 1.09

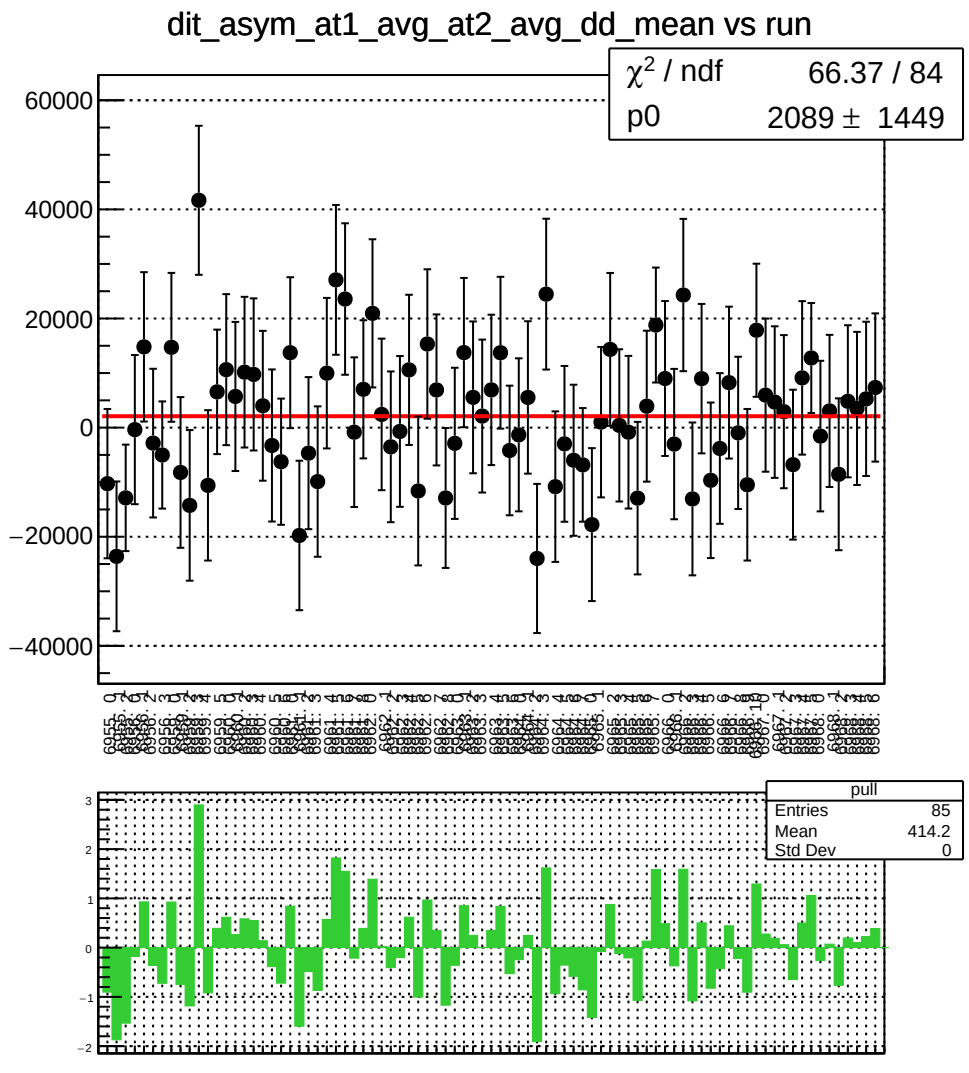

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.365e+04 / 84
p0 5349 ± 4.191
6500
6000
5500
5000
4500

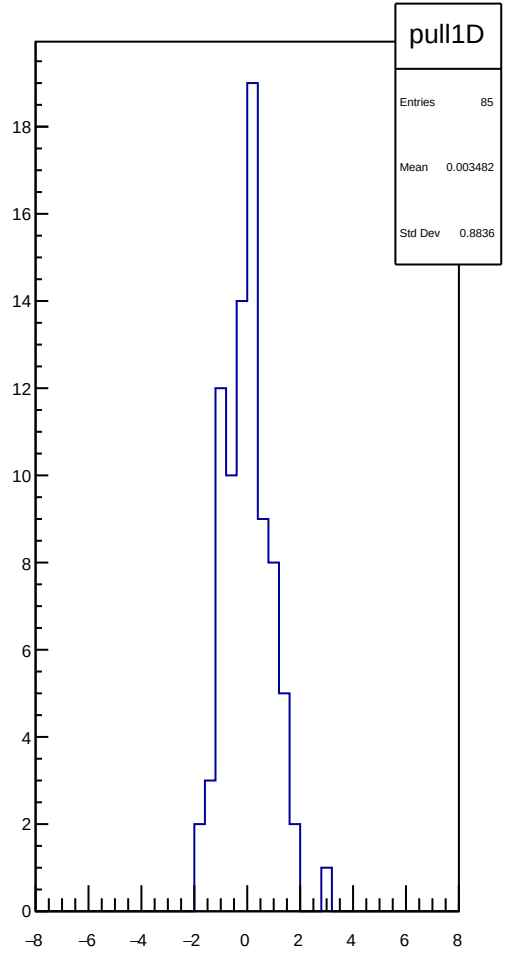

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 71.41 / 84
p0 1691 ± 1394
pull
Entries 85
Mean −839.9
Std Dev 0
pull1D
Entries 85
Mean −0.0009701
Std Dev 0.9166

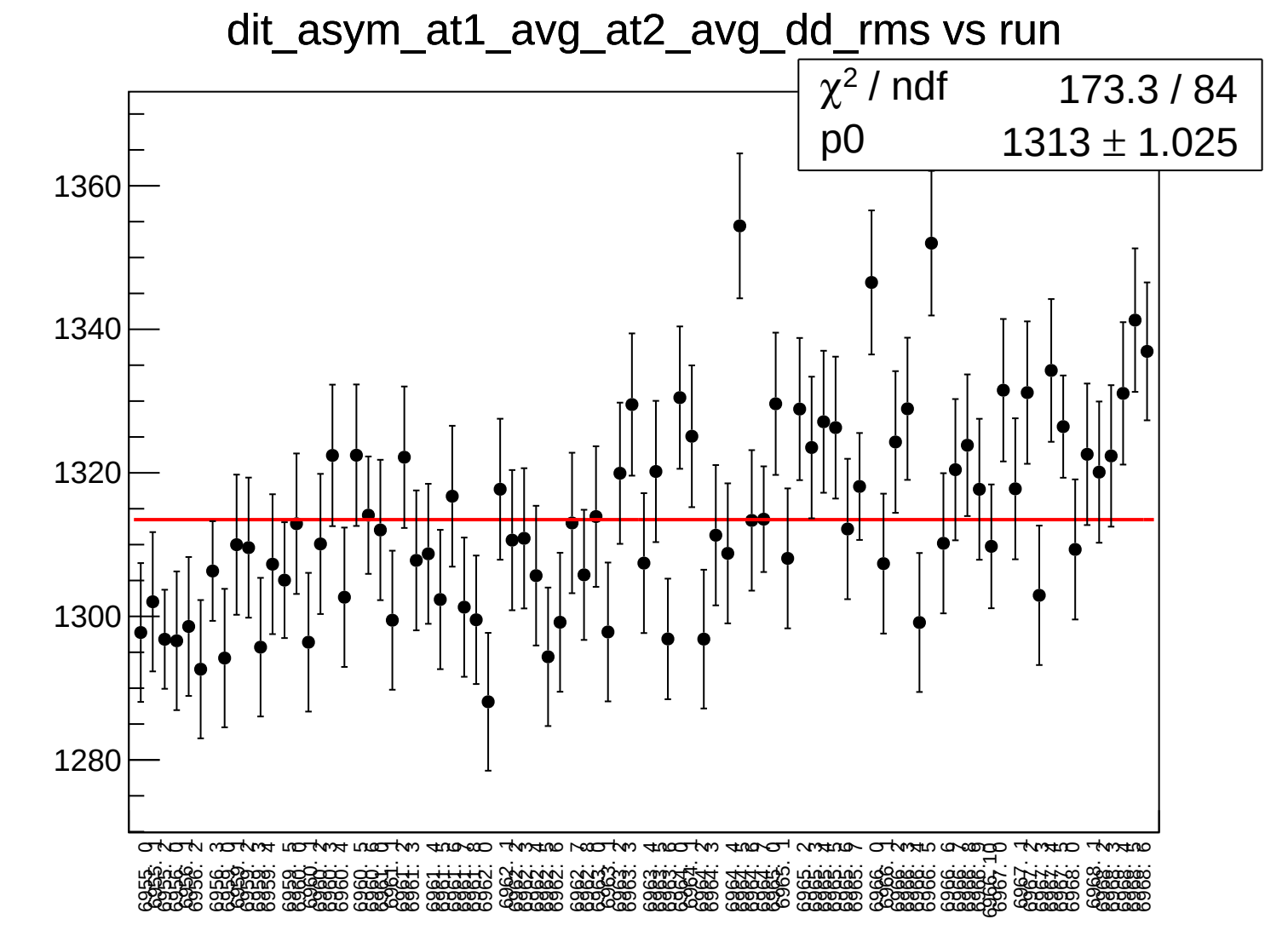

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 105.6 / 84
p0 1263 ± 0.9858
1310
1300
1290
1280
1270
1260
1250
1240
1230

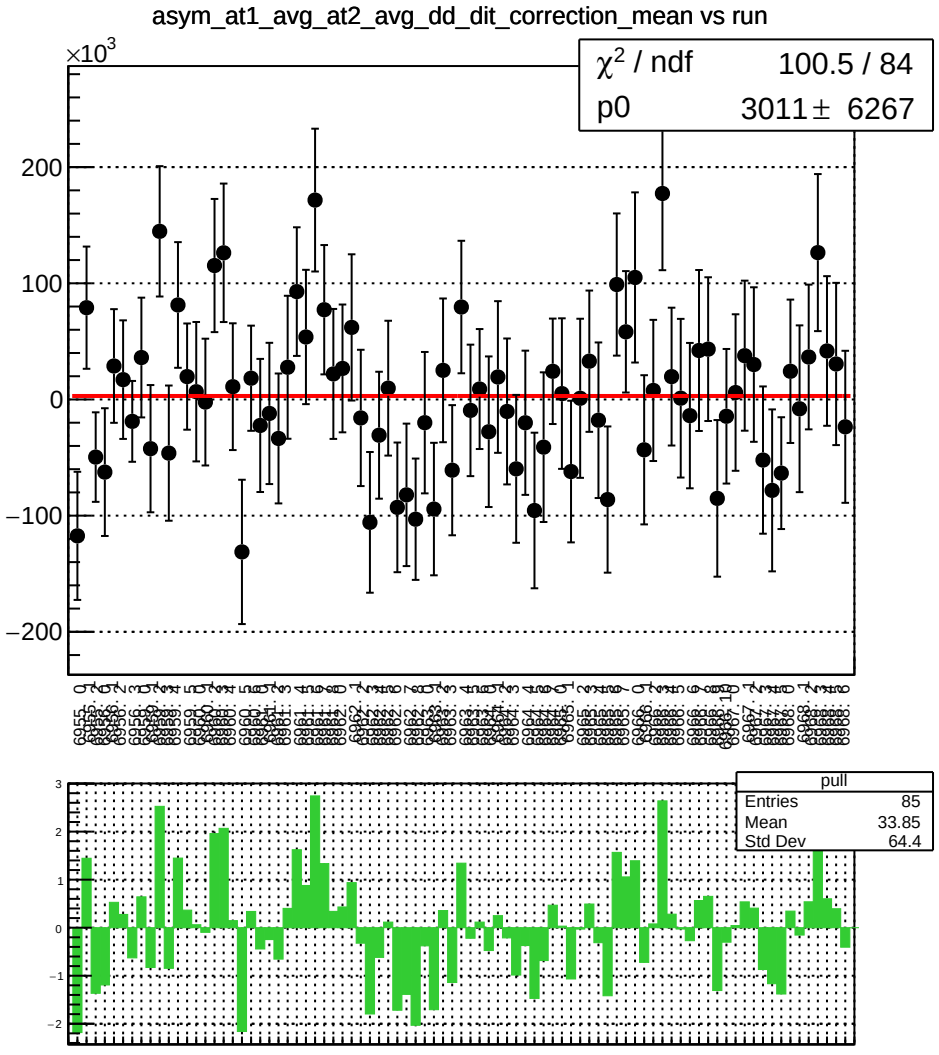

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.9 / 84
p0 2605 ± 5927
pull
Entries 85
Mean 24.59
Std Dev 63.58
pull1D
Entries 85
Mean 0.01143
Std Dev 1.09

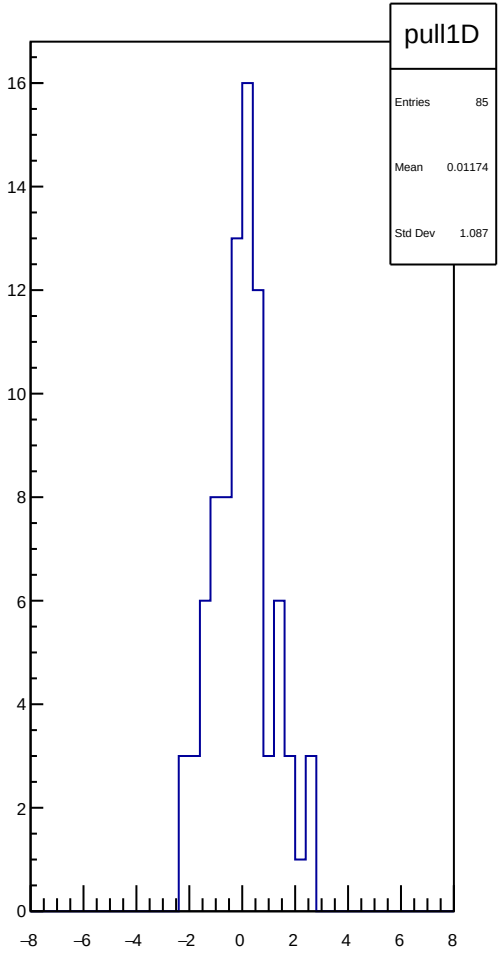

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.365e+04 / 84
p0 5349 ± 4.191
6500
6000
5500
5000
4500

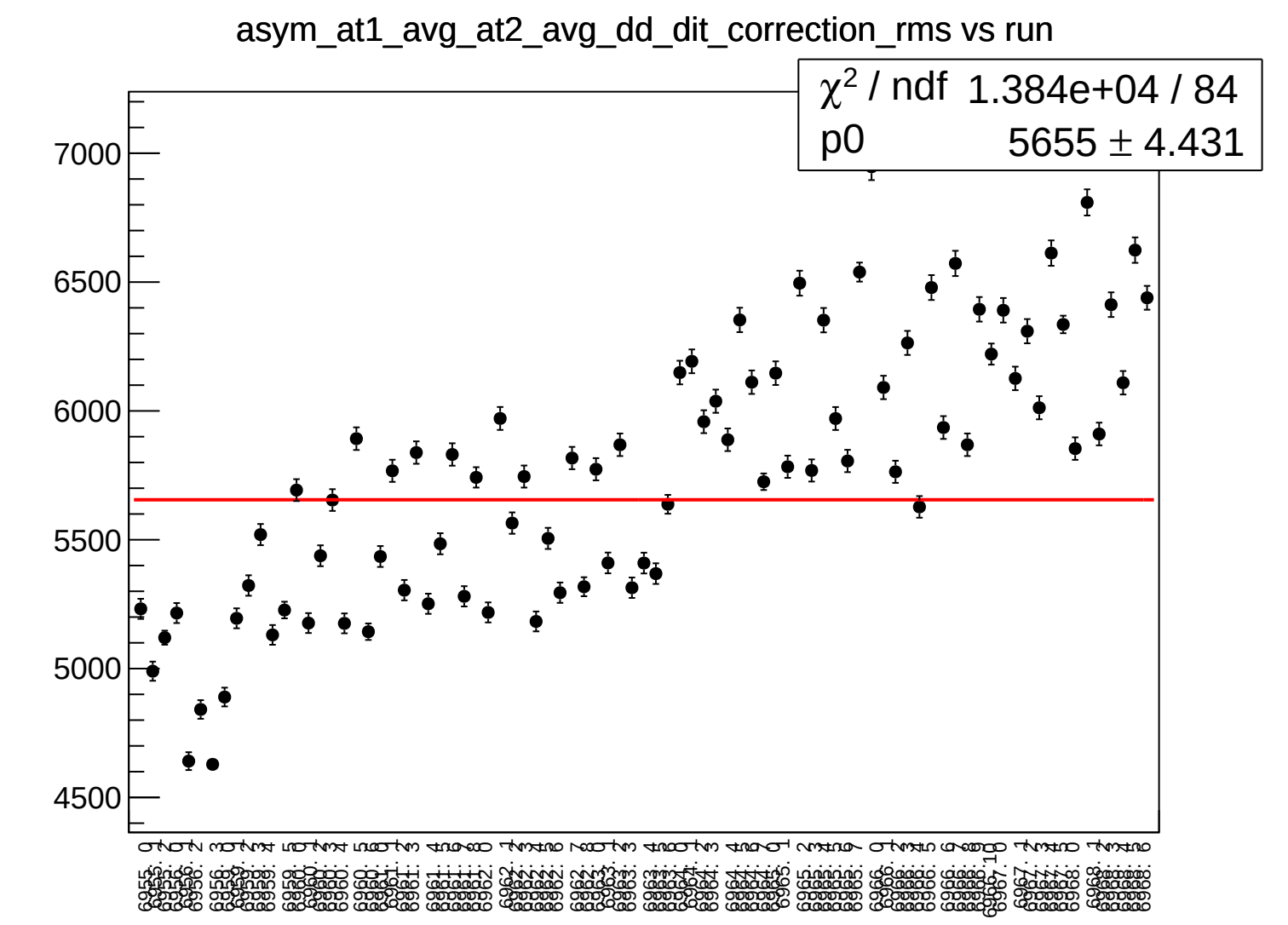

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 66.37 / 84
p0 2089 ± 1449
pull
Entries 85
Mean 414.2
Std Dev 0

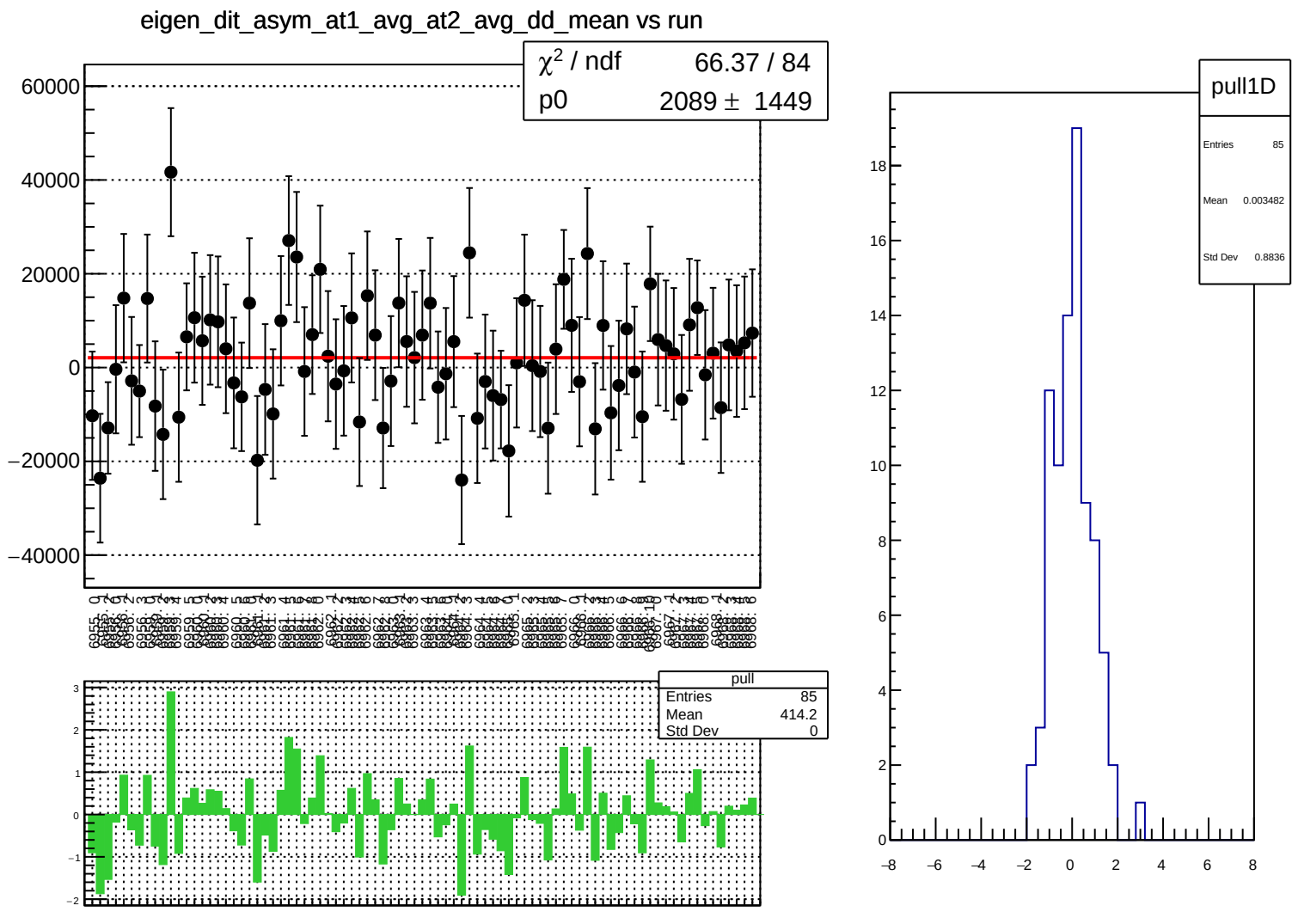

pull1D
Entries 85
Mean 0.003482
Std Dev 0.8836

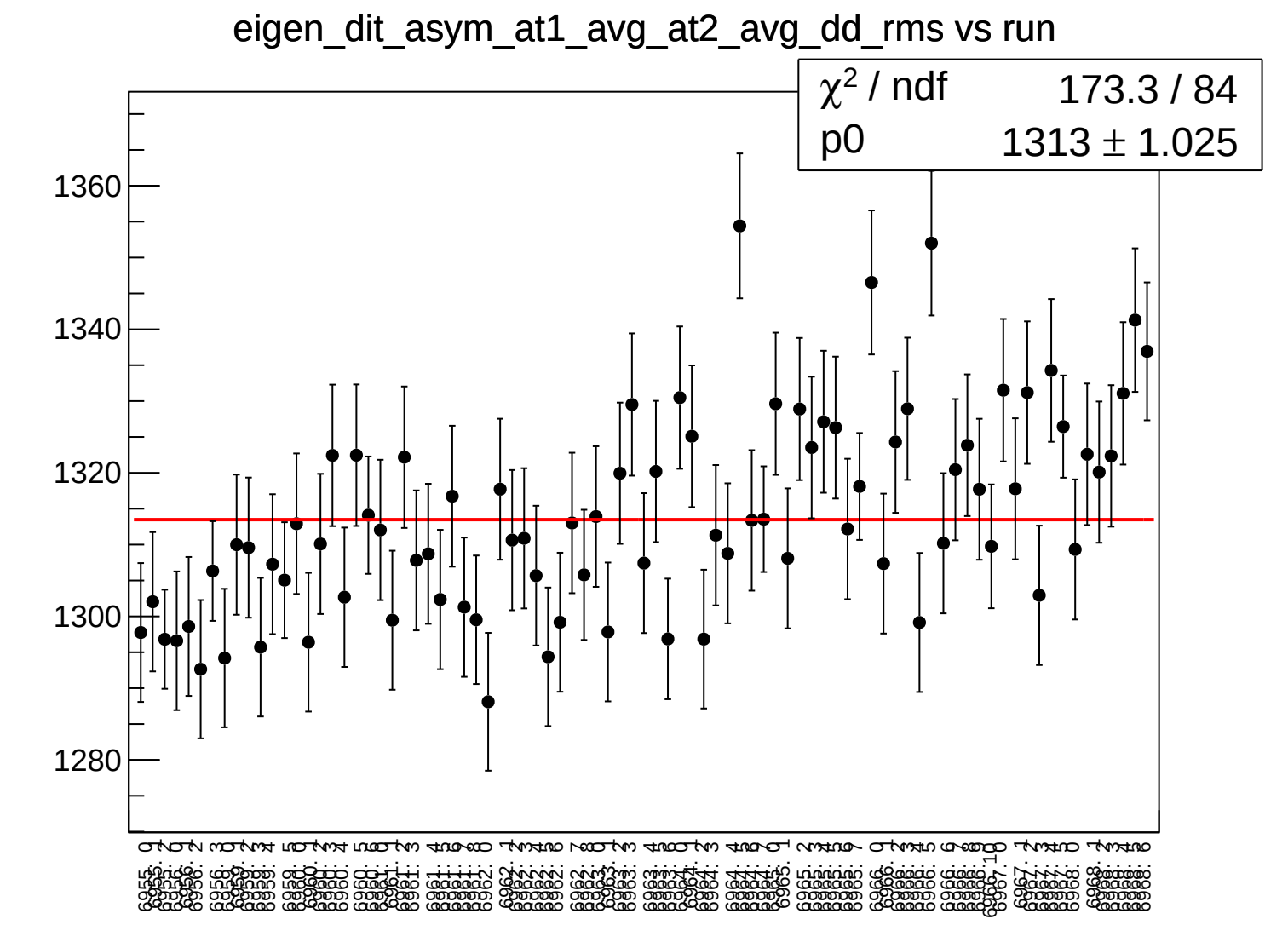

dit_asym_at1_avg_at2_avg_dd_rms vs run
$\chi^2$ / ndf 173.3 / 84
p0 1313 ± 1.025
1360
1340
1320
1300
1280

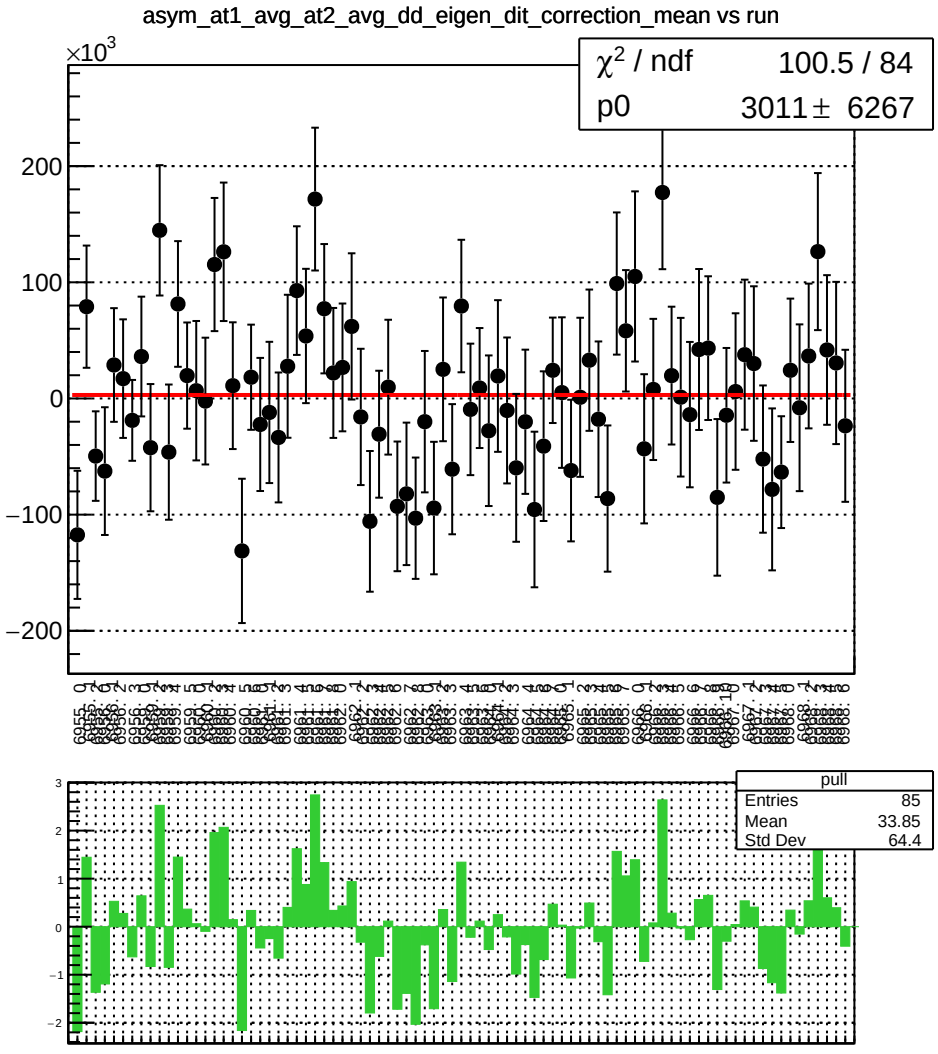

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
χ² / ndf 100.5 / 84
p0 3011 ± 6267
×10³
pull
Entries 85
Mean 33.85
Std Dev 64.4

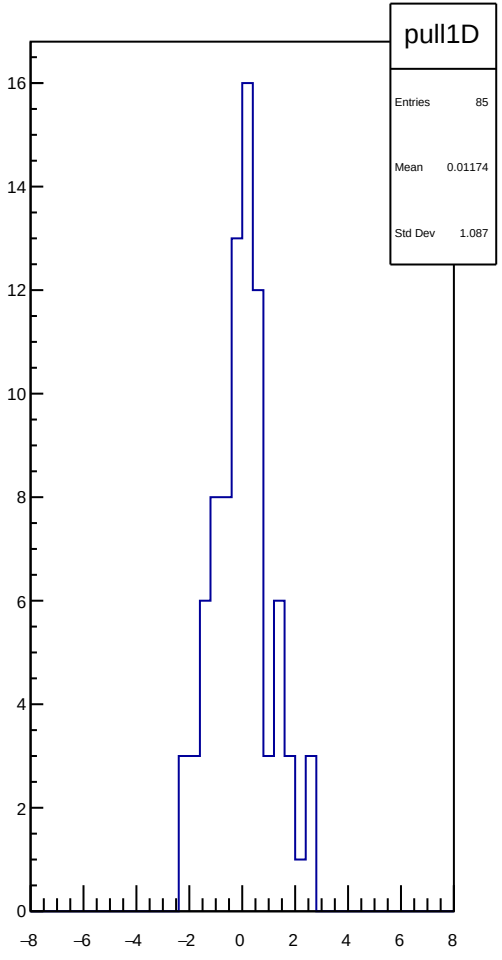

pull1D
Entries 85
Mean 0.01174
Std Dev 1.087

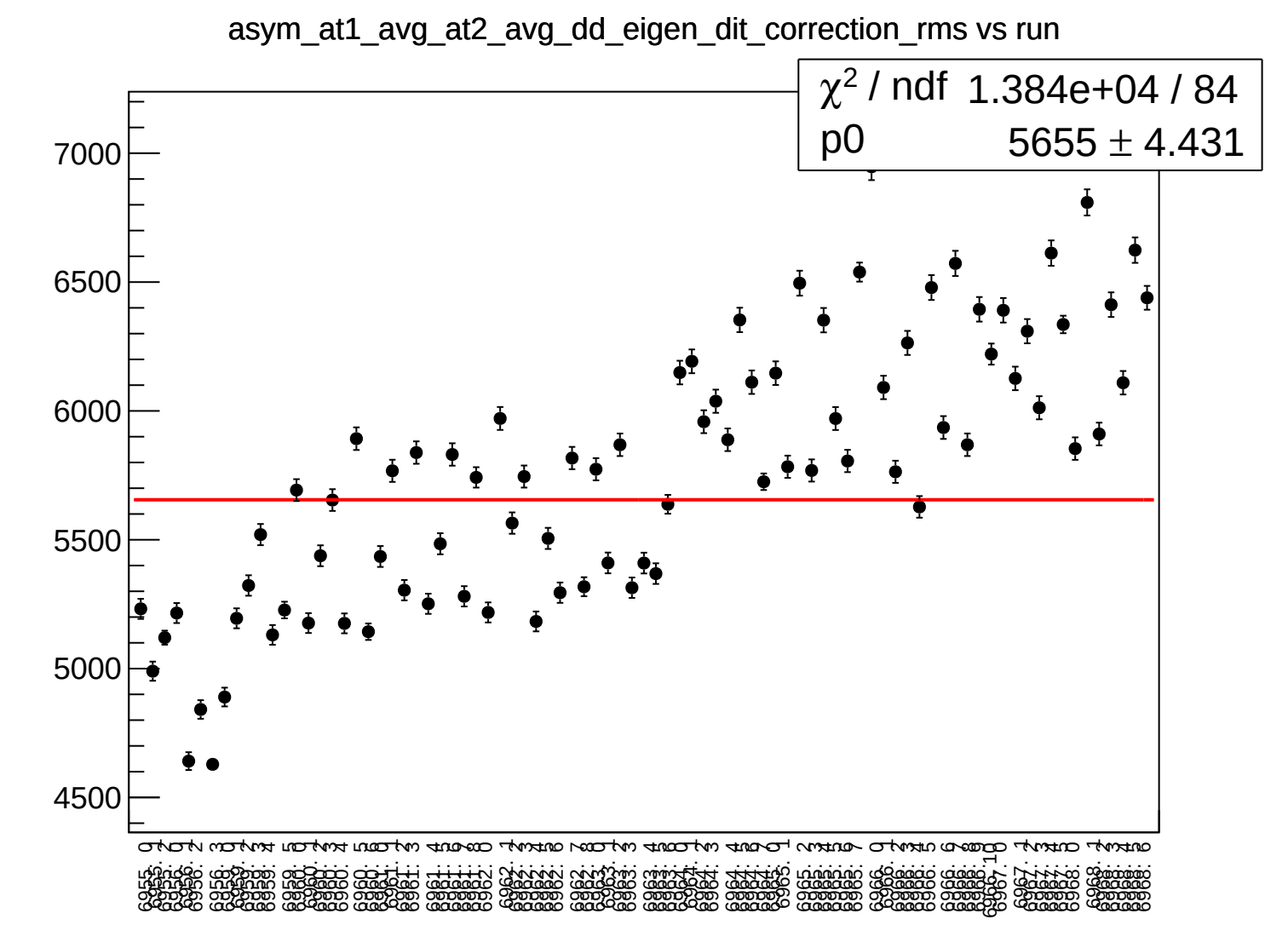

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
$\chi^2$ / ndf 1.384e+04 / 84
p0 5655 ± 4.431
7000
6500
6000
5500
5000
4500

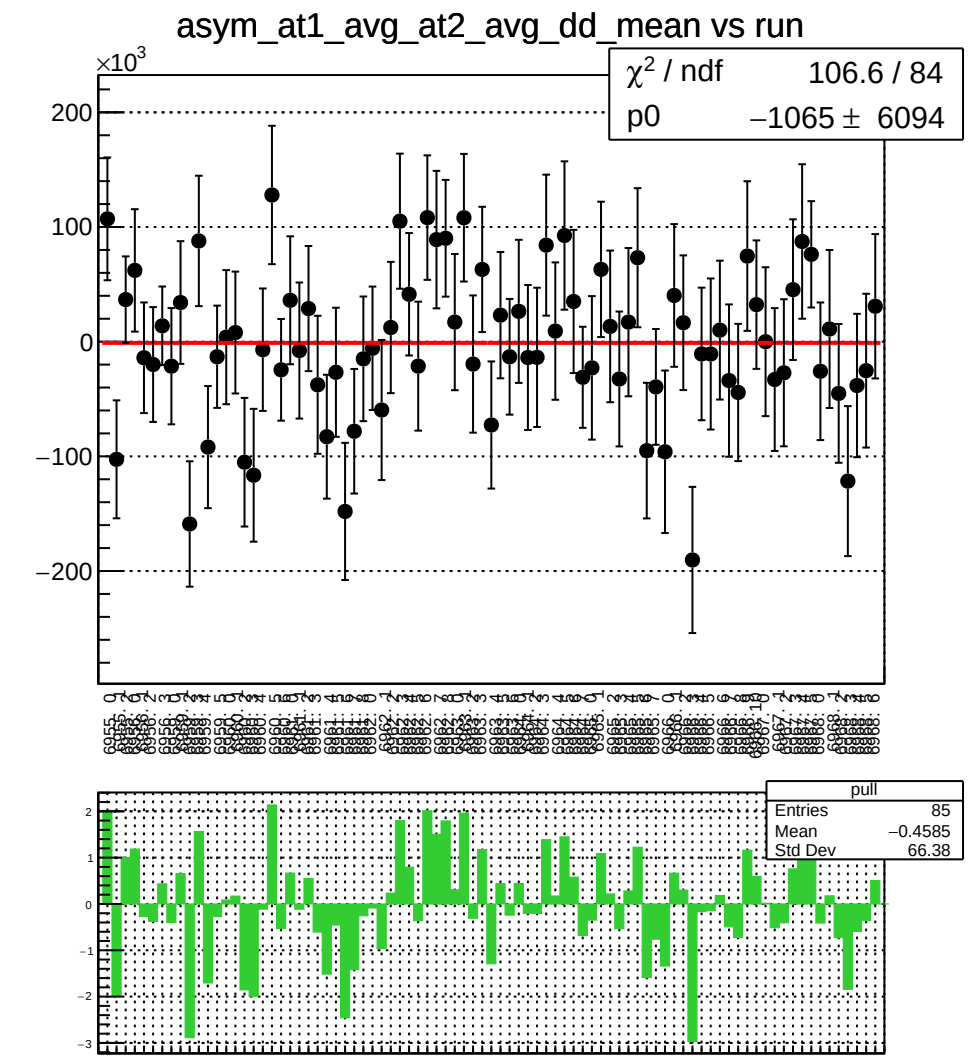

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 66.37 / 84
p0 2089 ± 1449
pull
Entries 85
Mean 414.2
Std Dev 0
pull1D
Entries 85
Mean 0.003482
Std Dev 0.8836

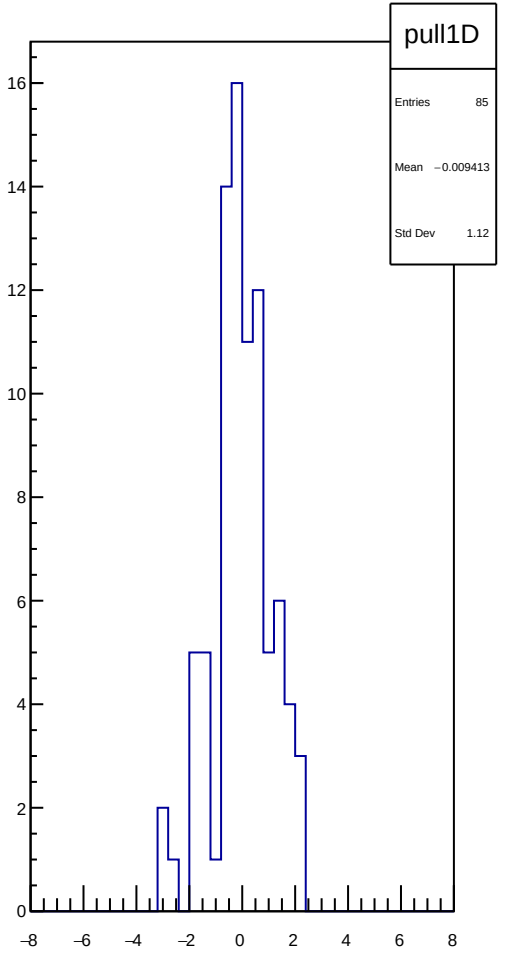

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 173.3 / 84
p0 1313 ± 1.025
1360
1340
1320
1300
1280

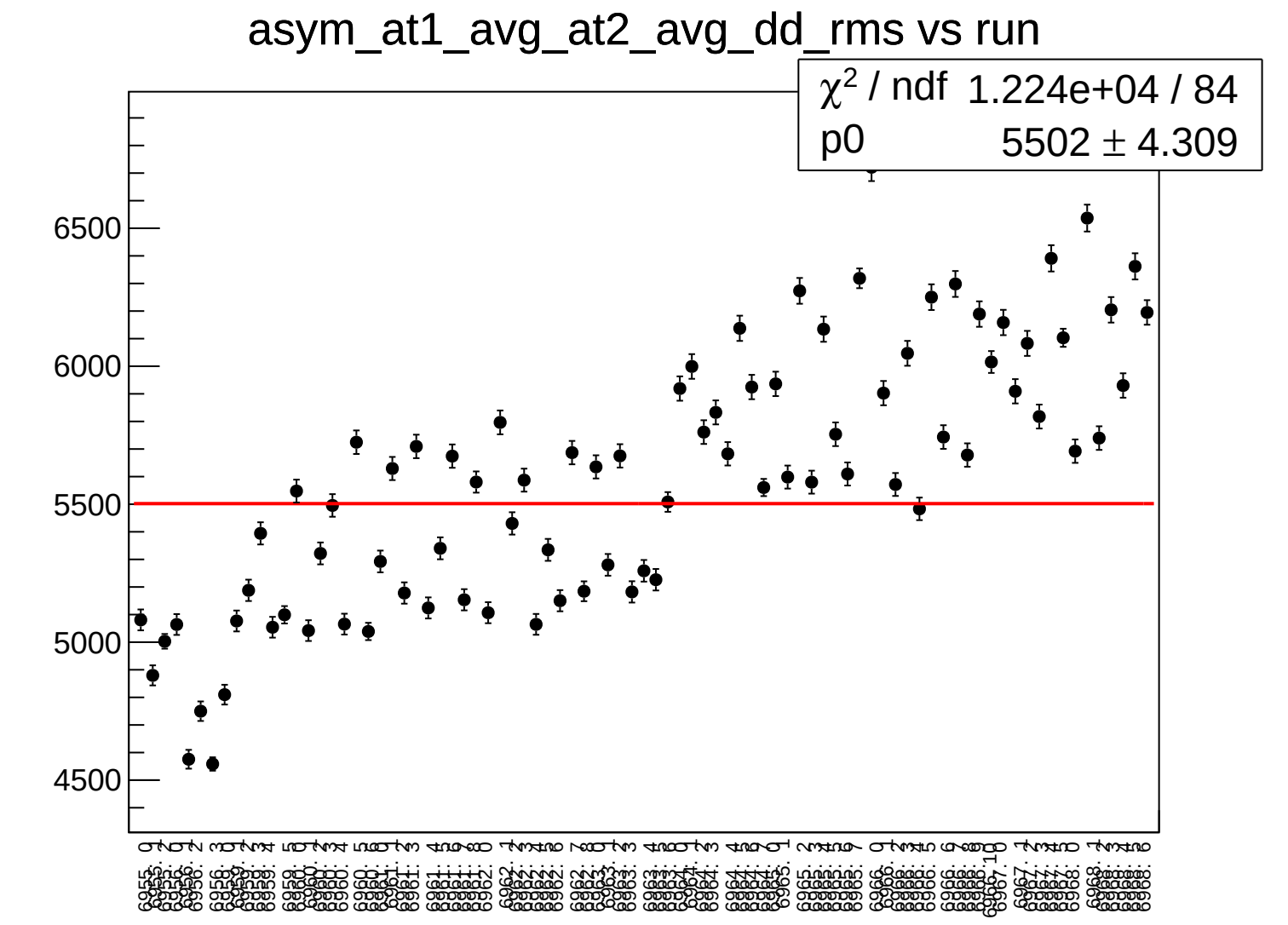

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.5 / 84
p0 3011 ± 6267
×10³
pull
Entries 85
Mean 33.85
Std Dev 64.4

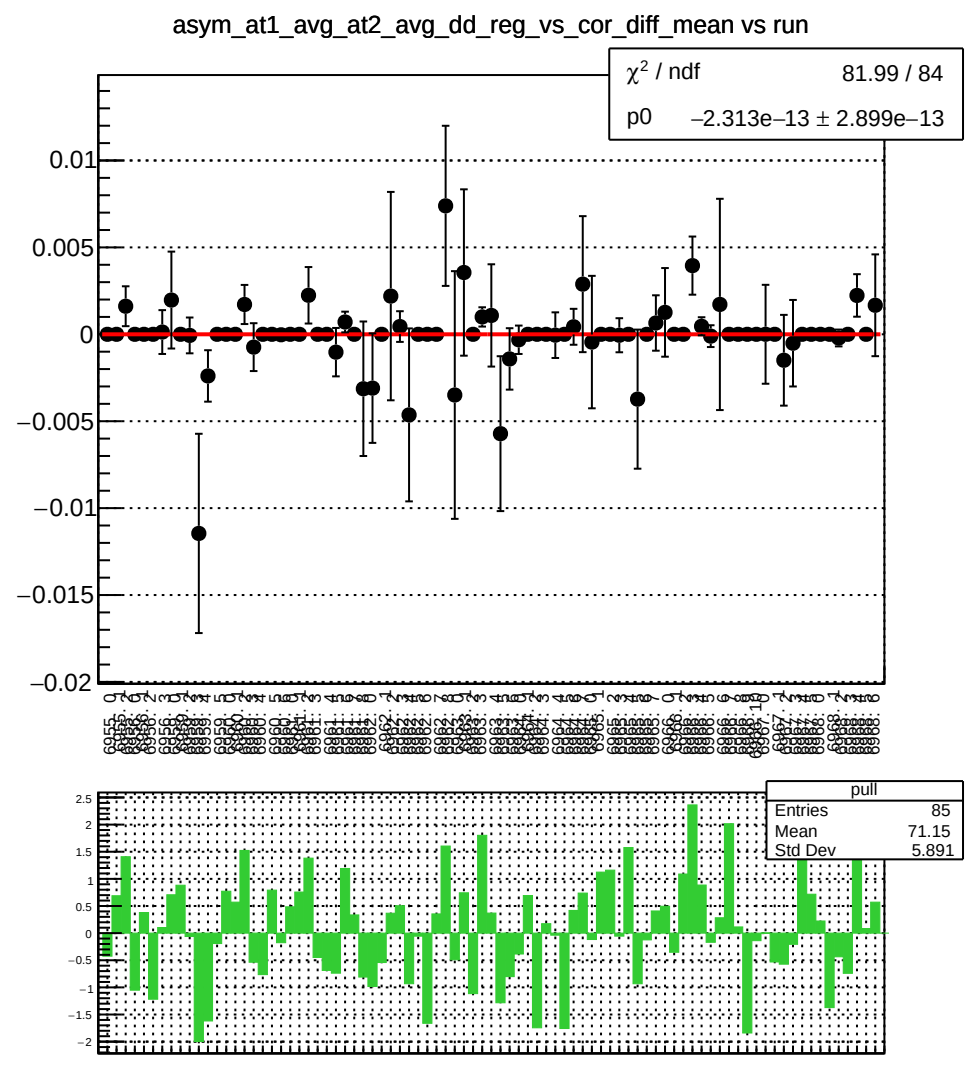

pull1D
Entries 85
Mean 0.01174
Std Dev 1.087

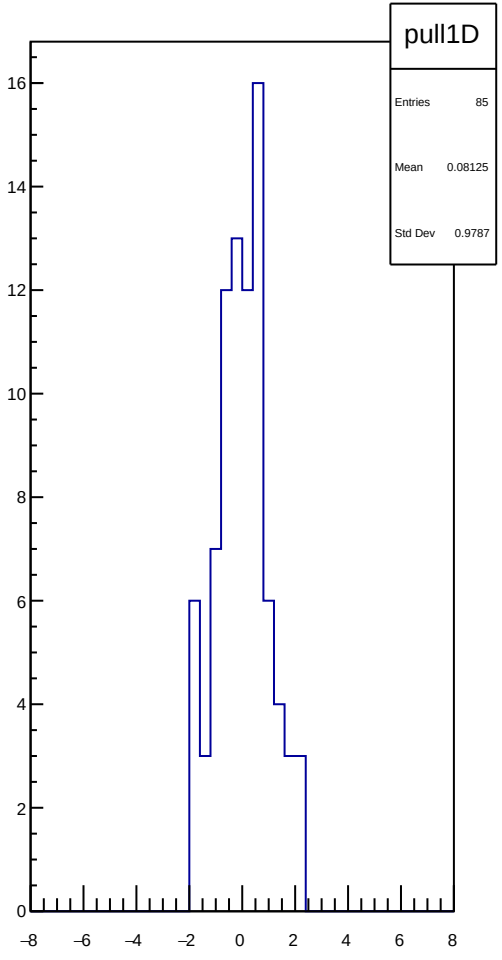

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.384e+04 / 84
p0 5655 ± 4.431
7000
6500
6000
5500
5000
4500

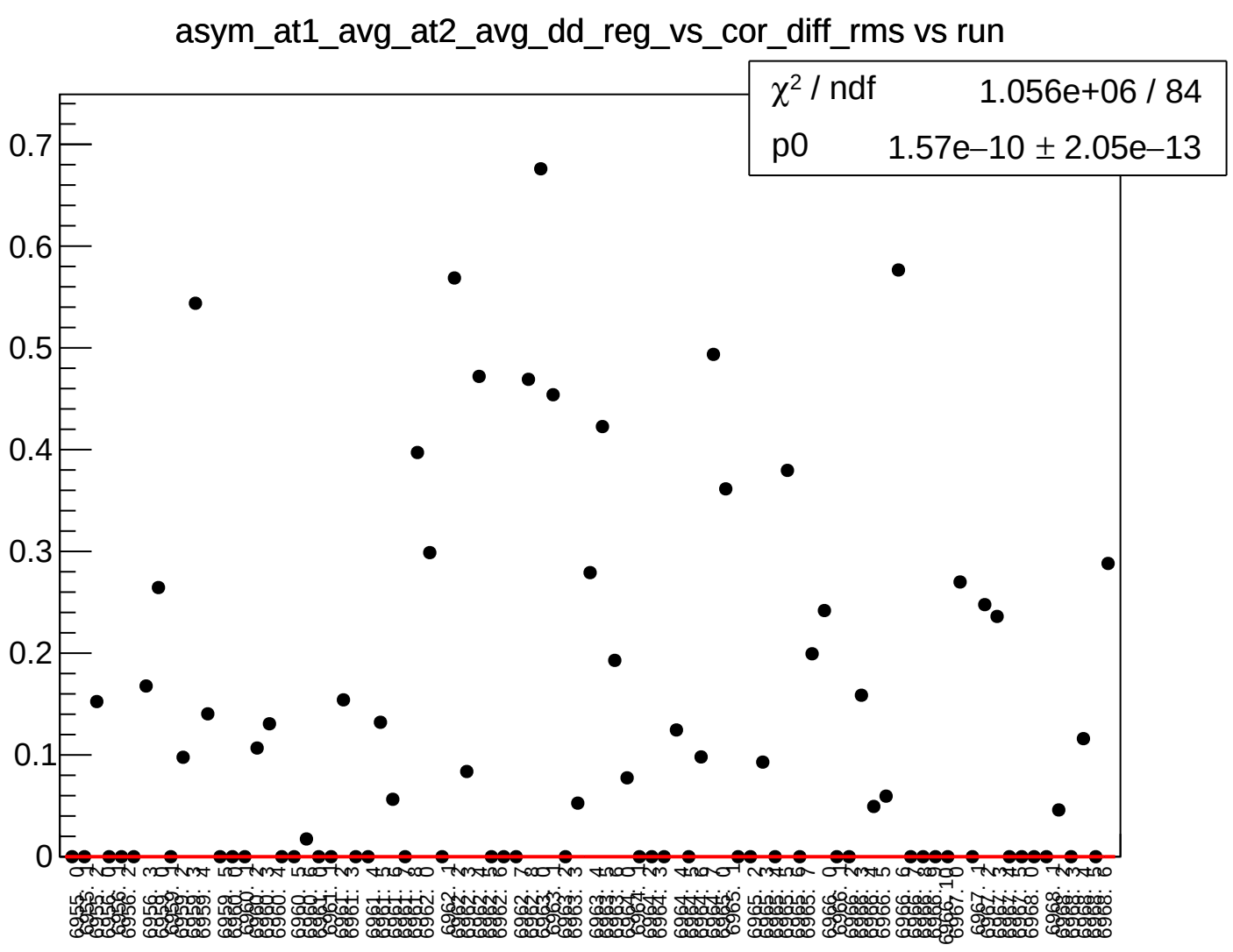

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 106.6 / 84
p0 −1065 ± 6094
200
100
0
−100
−200
pull
Entries 85
Mean −0.4585
Std Dev 66.38
2
1
0
−1
−2
−3

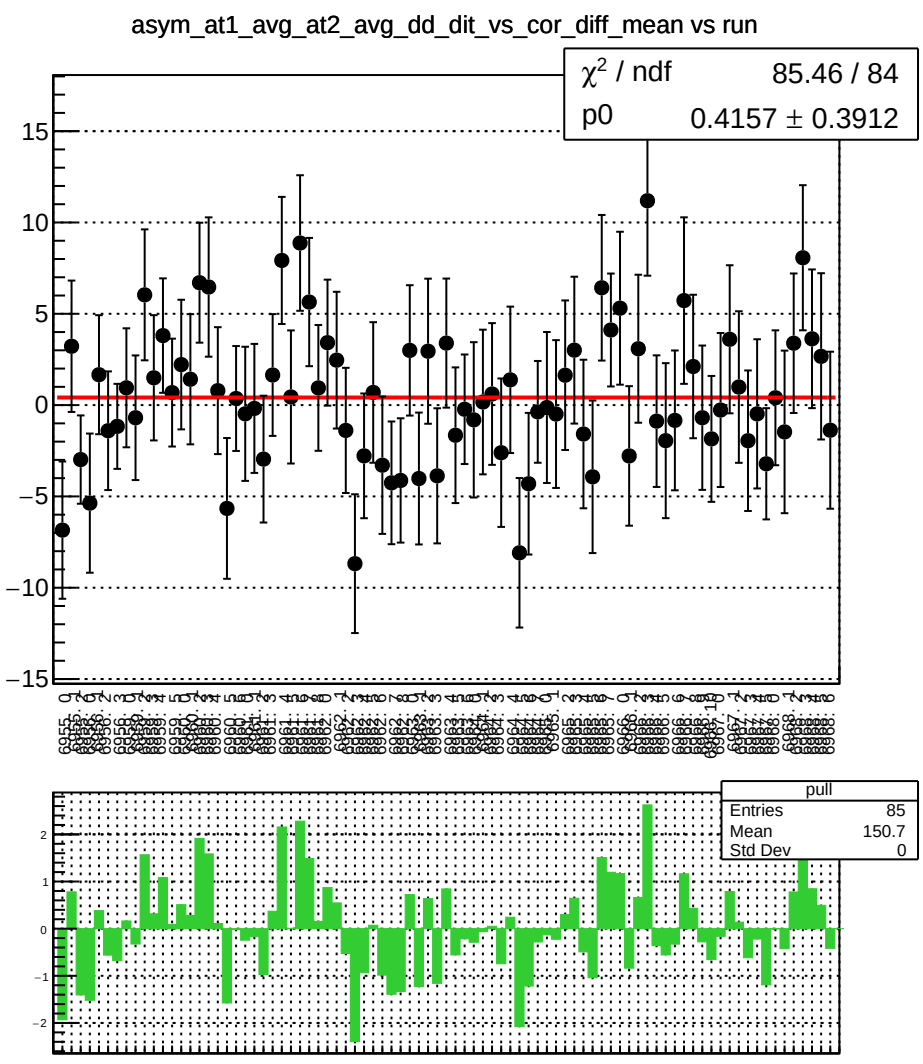

pull1D
Entries 85
Mean −0.009413
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

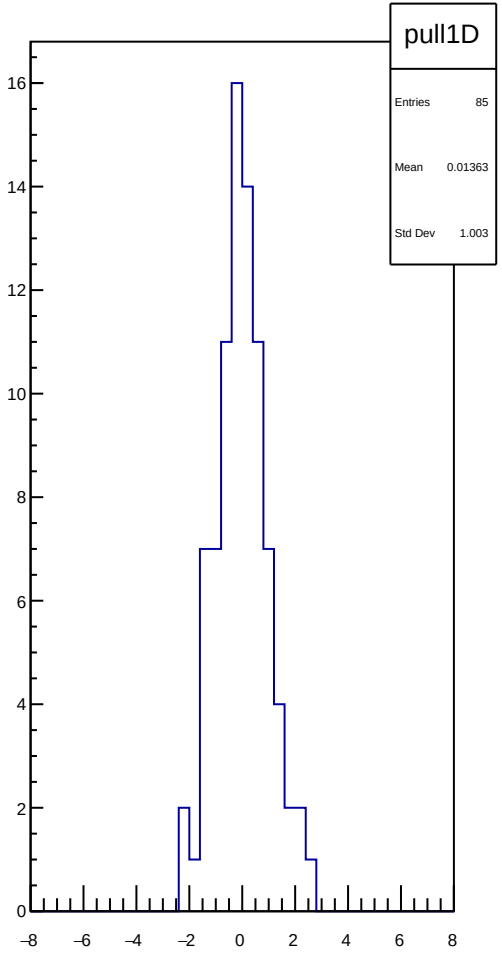

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.224e+04 / 84
p0 5502 ± 4.309
6500
6000
5500
5000
4500

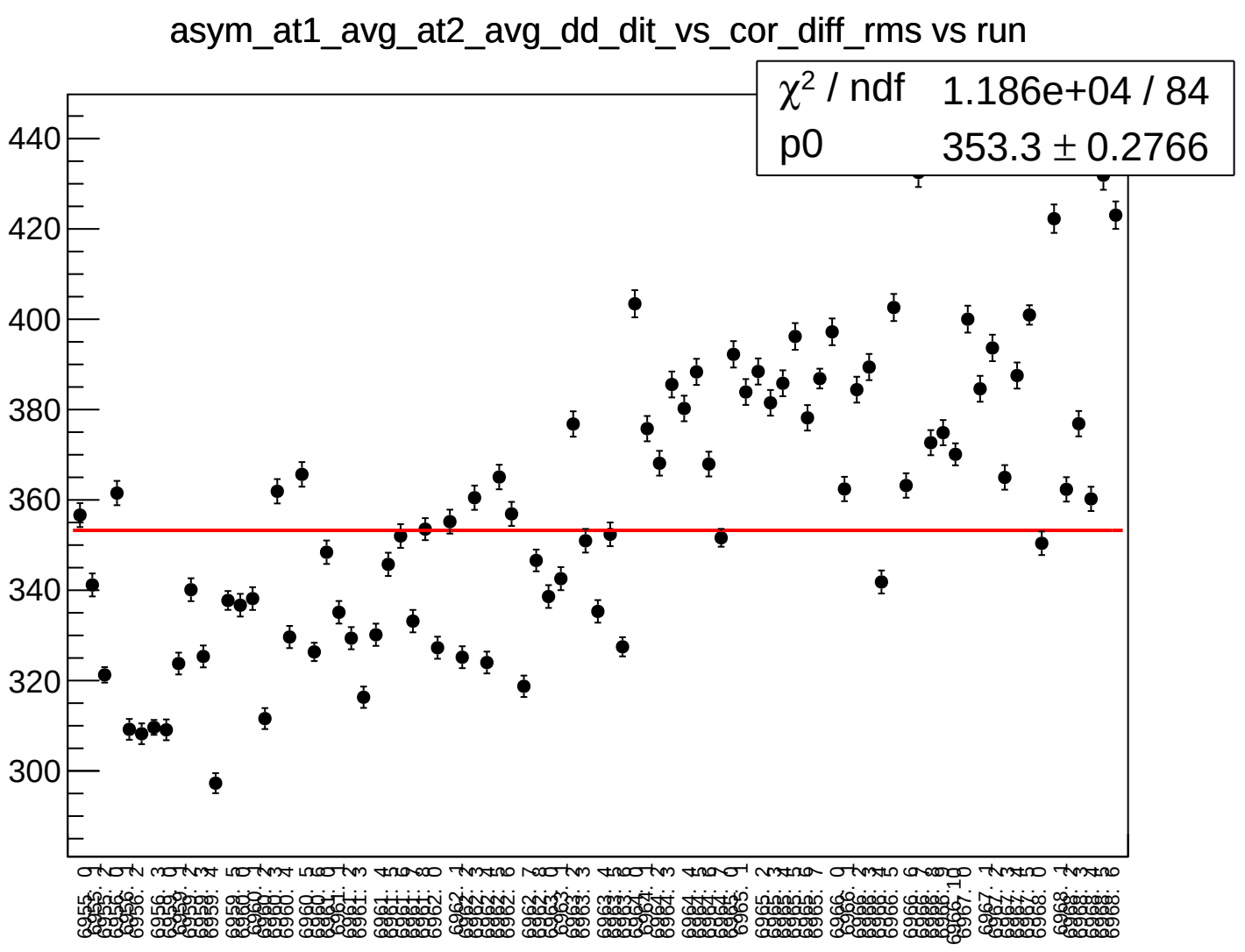

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.99 / 84
p0 −2.313e−13 ± 2.899e−13
pull
Entries 85
Mean 71.15
Std Dev 5.891

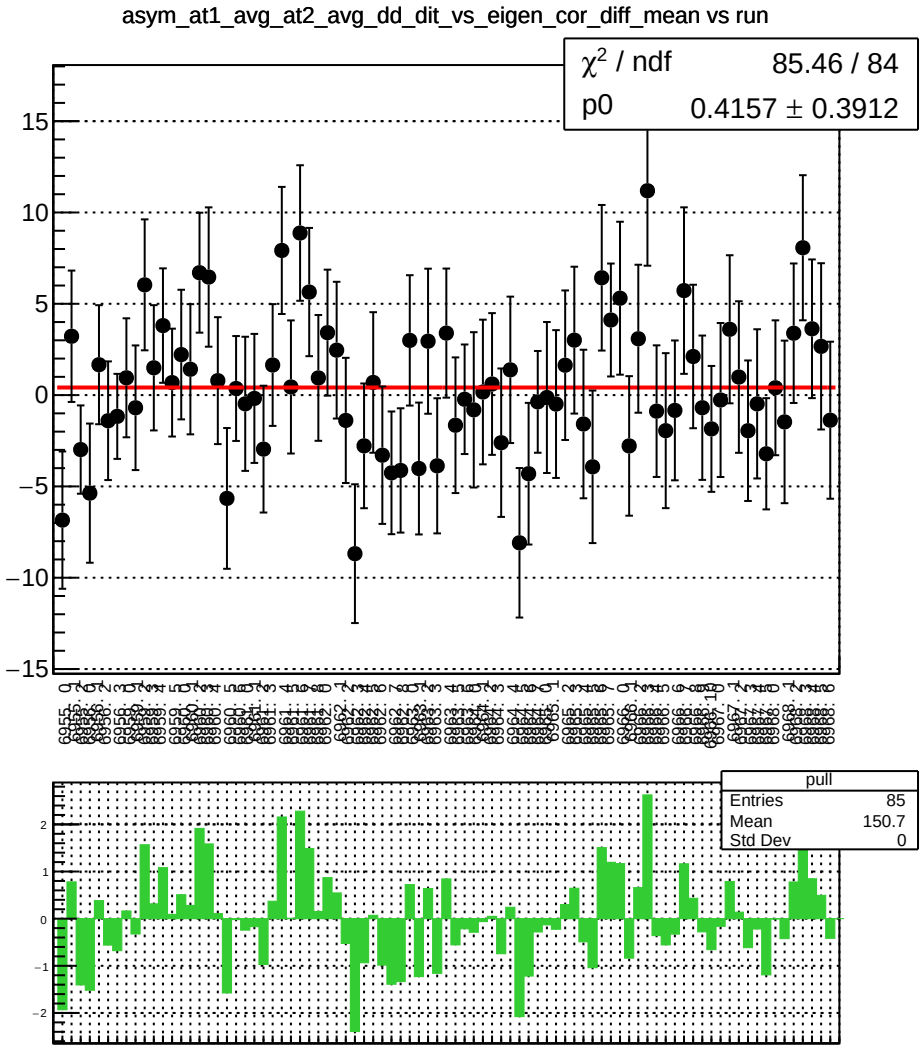

pull1D
Entries 85
Mean 0.08125
Std Dev 0.9787

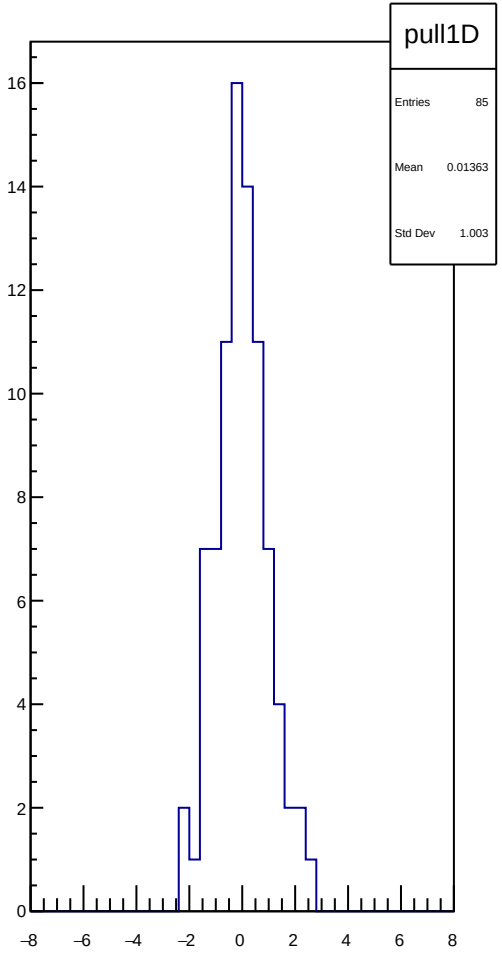

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.056e+06 / 84
p0 1.57e−10 ± 2.05e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

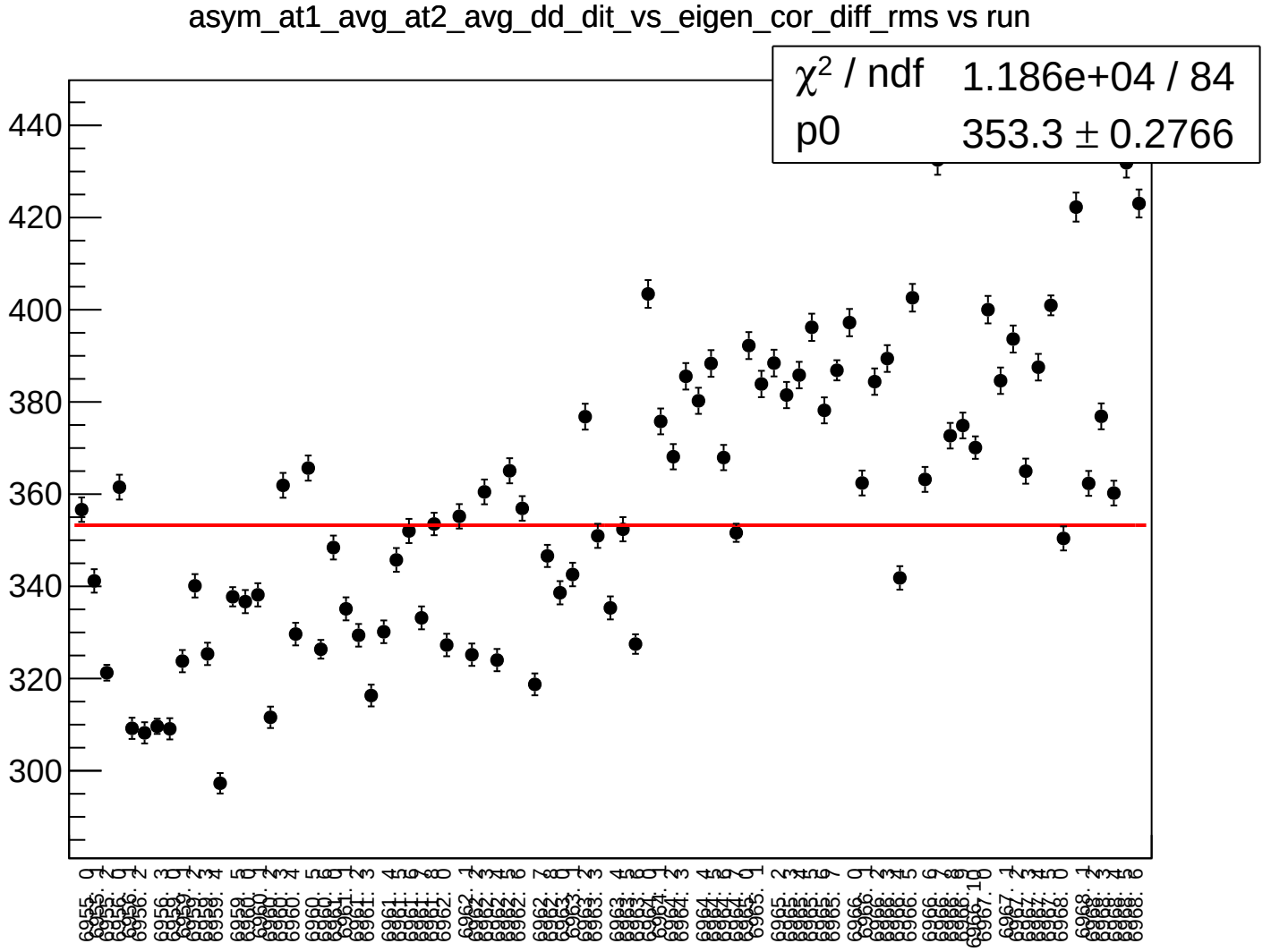

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.46 / 84
p0 0.4157 ± 0.3912
pull
Entries 85
Mean 150.7
Std Dev 0

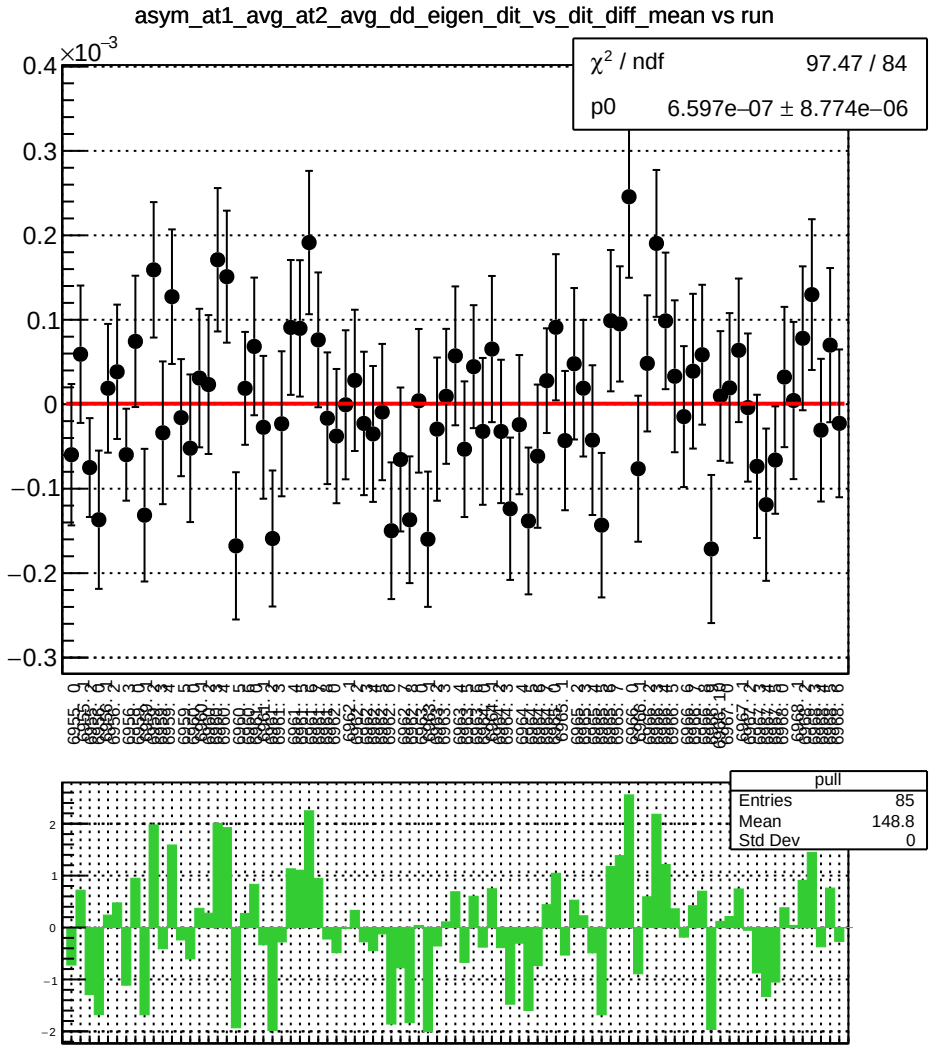

pull1D
Entries 85
Mean 0.01363
Std Dev 1.003

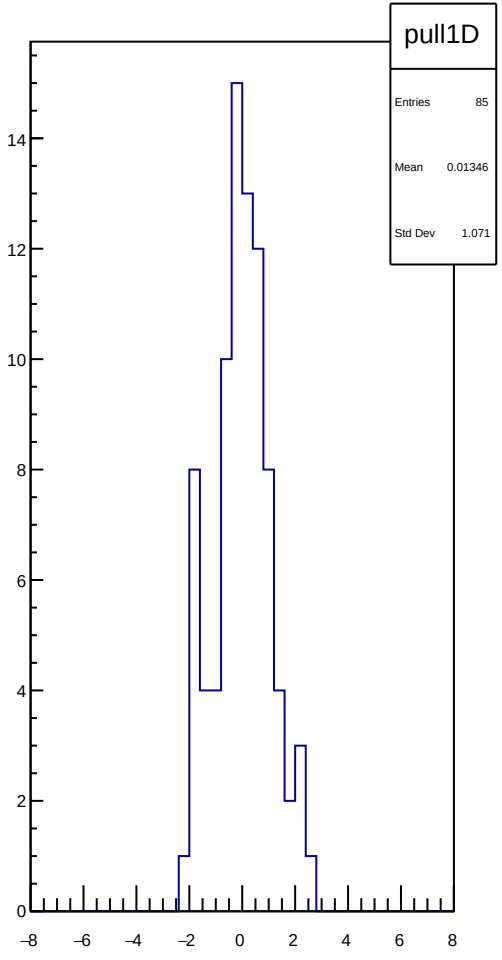

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 84
p0 353.3 ± 0.2766
440
420
400
380
360
340
320
300

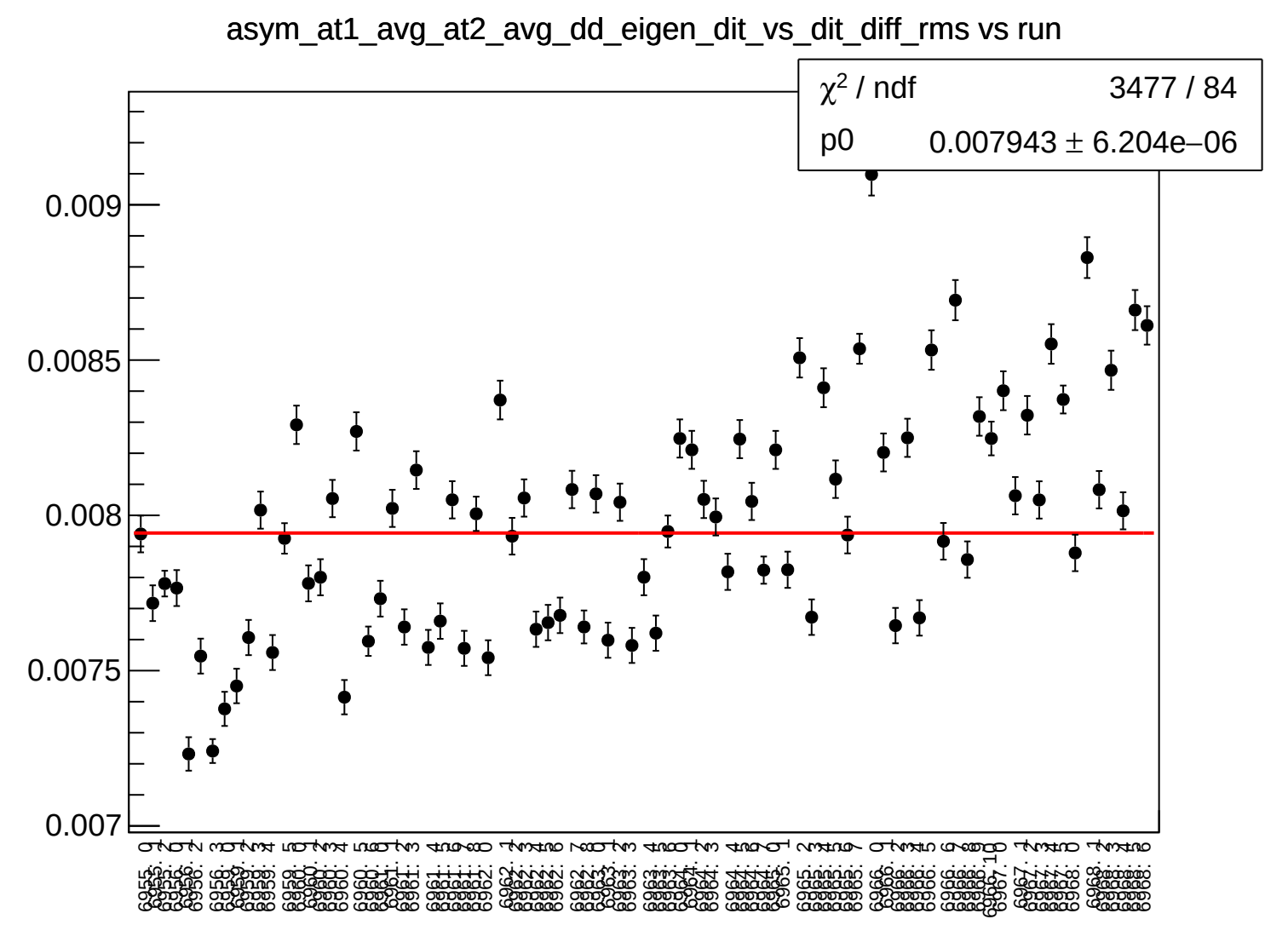

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.46 / 84
p0 0.4157 ± 0.3912
pull
Entries 85
Mean 150.7
Std Dev 0

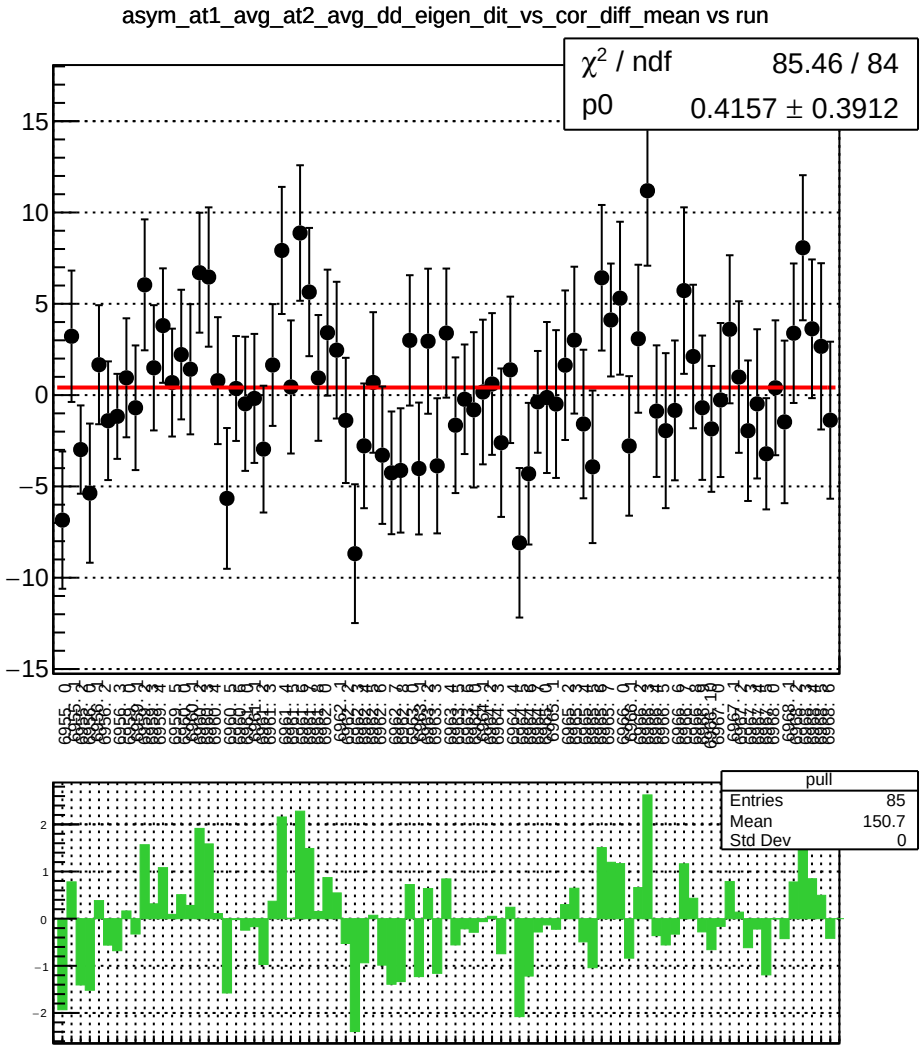

pull1D
Entries 85
Mean 0.01363
Std Dev 1.003

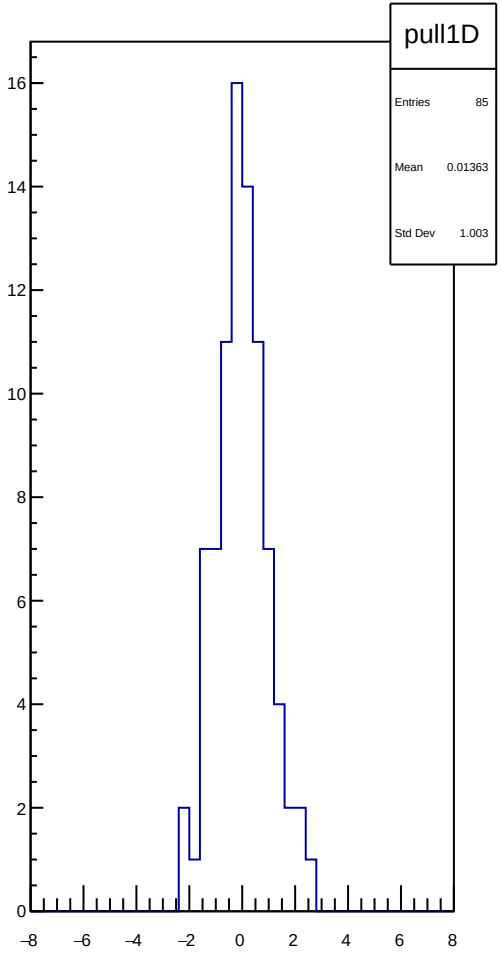

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 84
p0 353.3 ± 0.2766
440
420
400
380
360
340
320
300

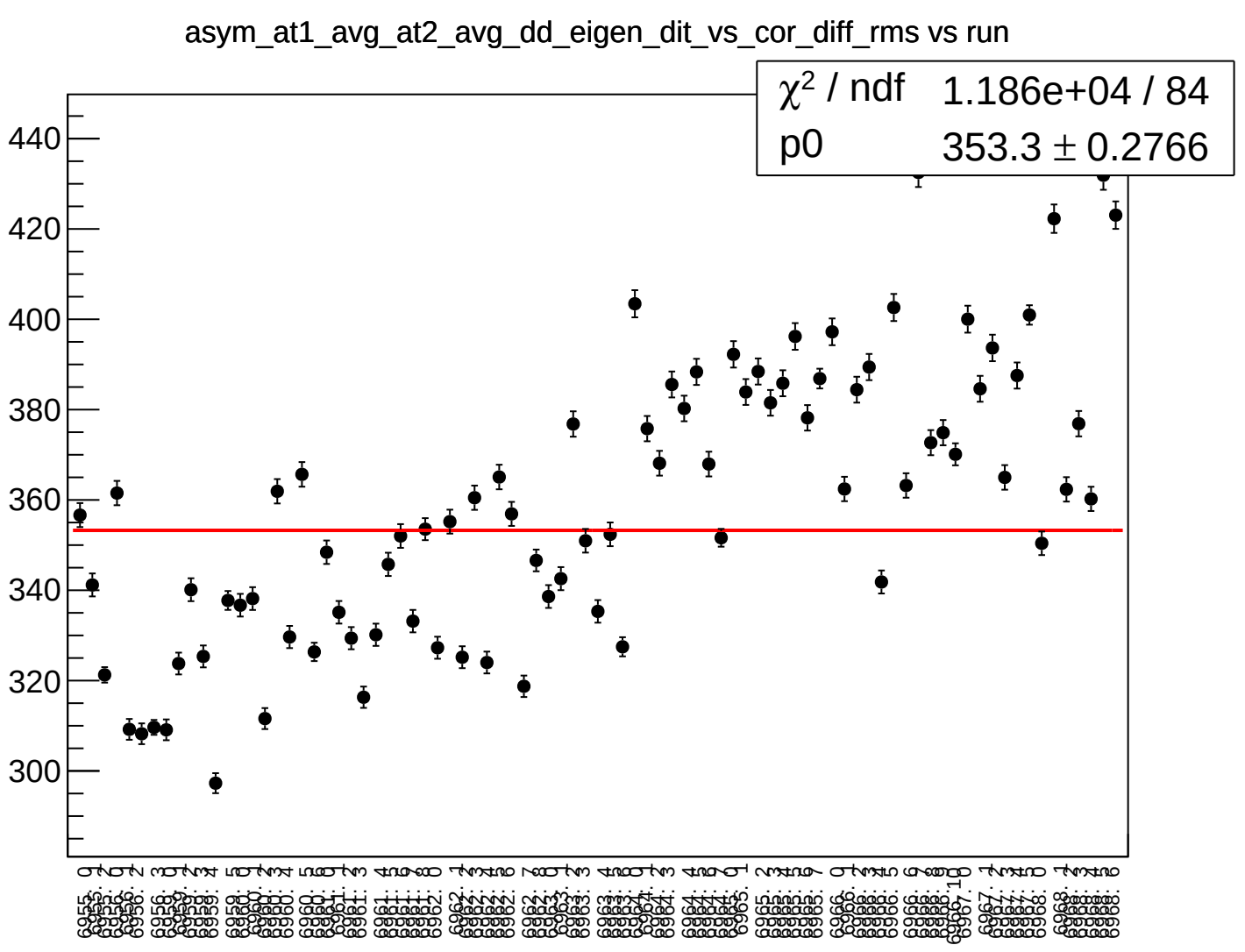

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.47 / 84
p0 6.597e−07 ± 8.774e−06
pull
Entries 85
Mean 148.8
Std Dev 0

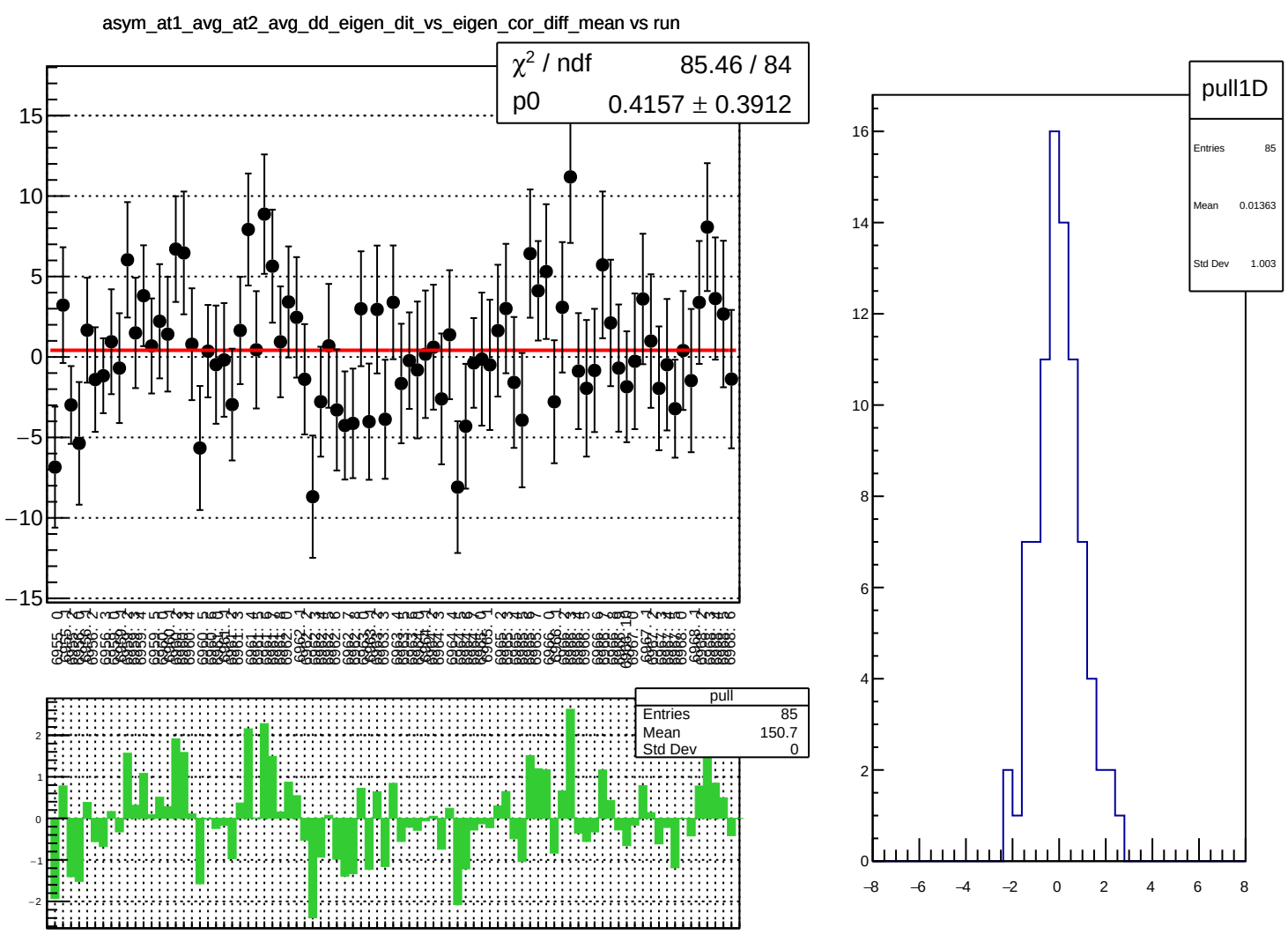

pull1D
Entries 85
Mean 0.01346
Std Dev 1.071

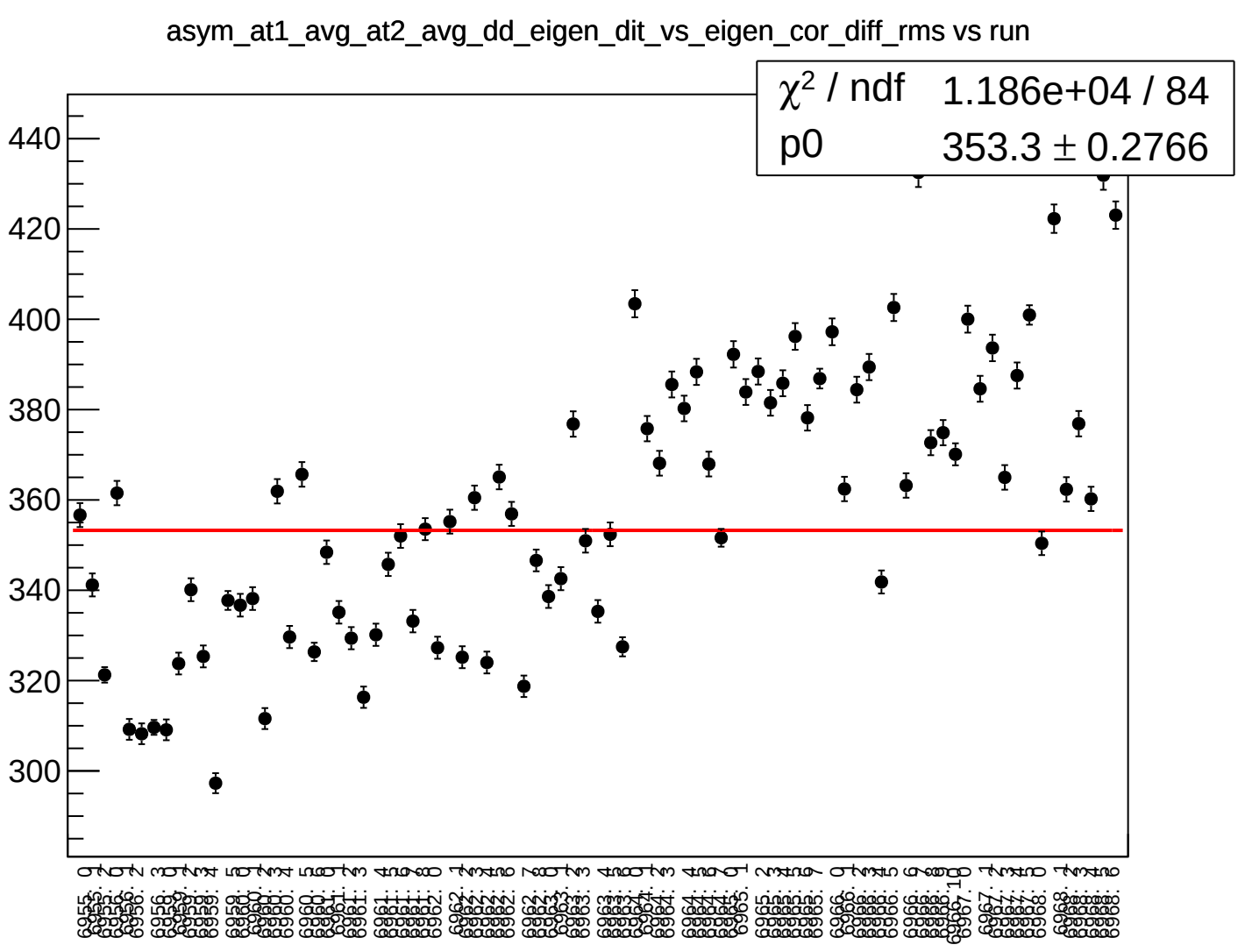

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3477 / 84
p0 0.007943 ± 6.204e−06
0.009
0.0085
0.008
0.0075
0.007

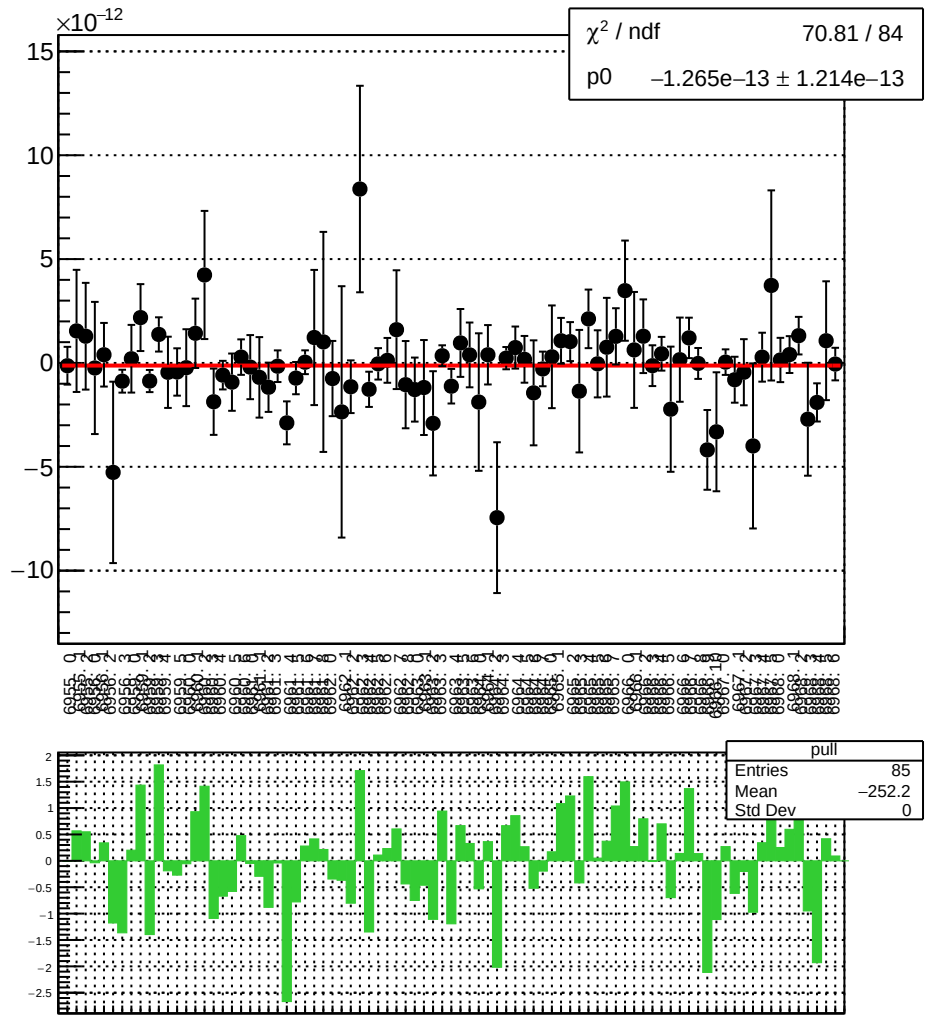

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.46 / 84
p0 0.4157 ± 0.3912
pull
Entries 85
Mean 150.7
Std Dev 0

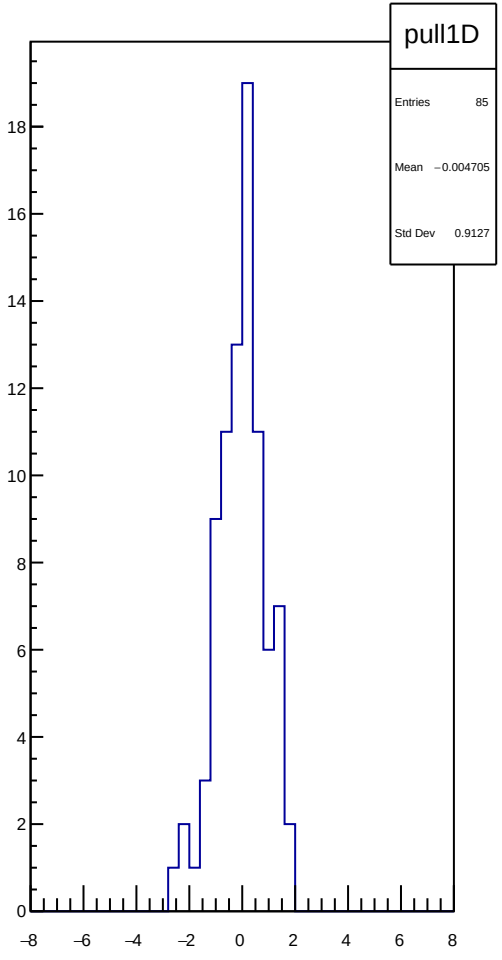

pull1D
Entries 85
Mean 0.01363
Std Dev 1.003

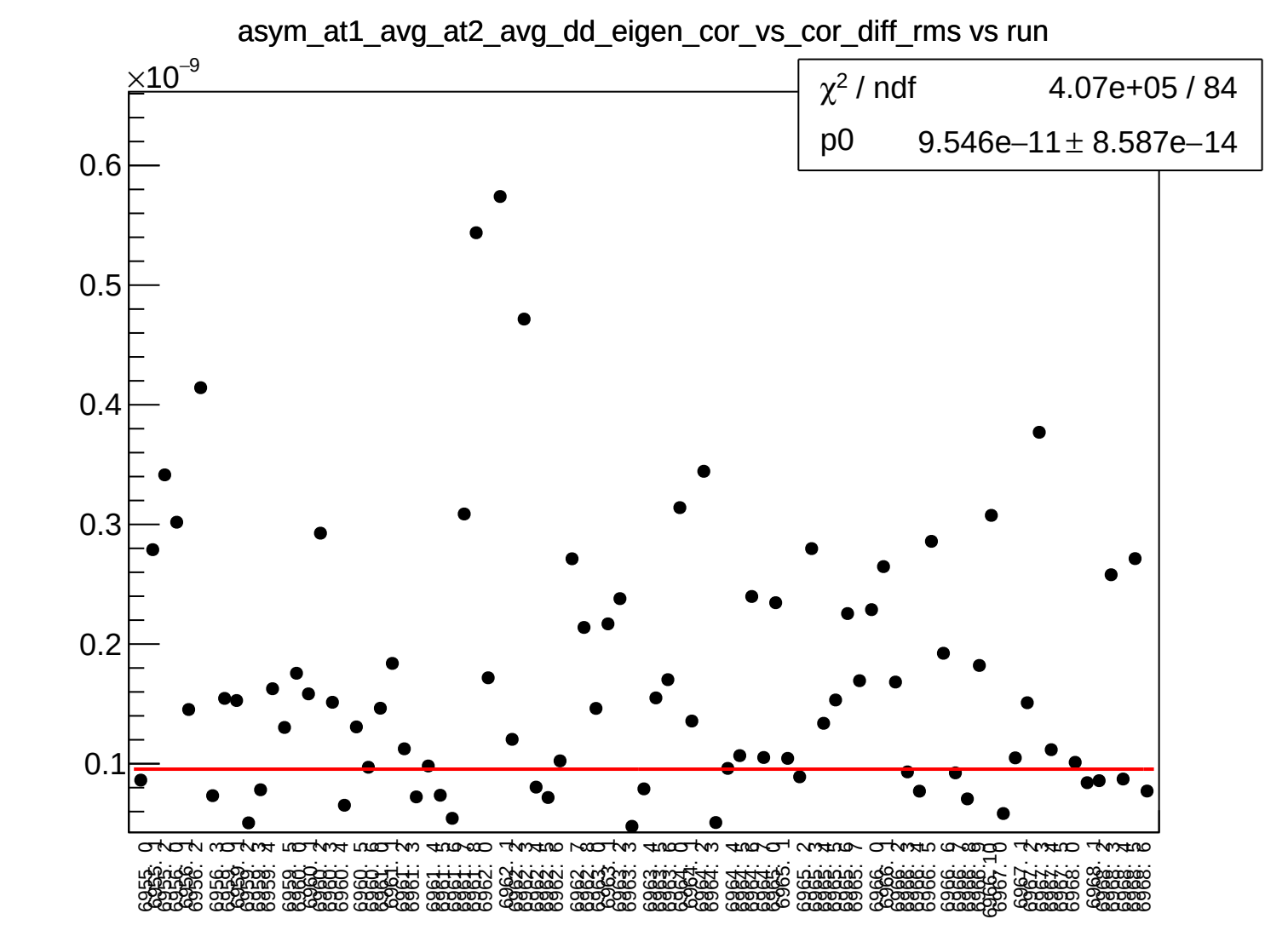

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 84
p0 353.3 ± 0.2766
440
420
400
380
360
340
320
300

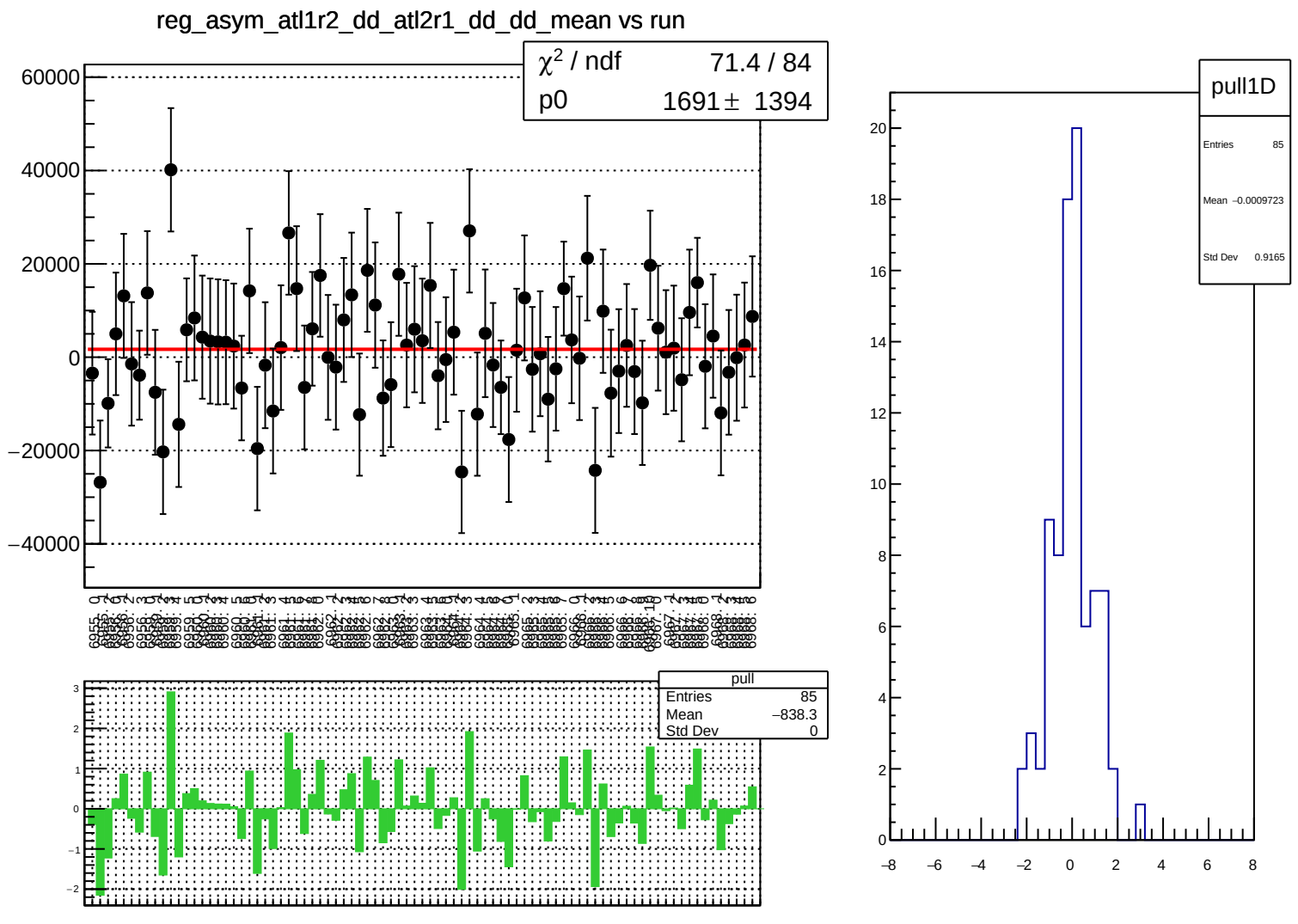

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.46 / 84
p0 0.4157 ± 0.3912
pull
Entries 85
Mean 150.7
Std Dev 0
pull1D
Entries 85
Mean 0.01363
Std Dev 1.003

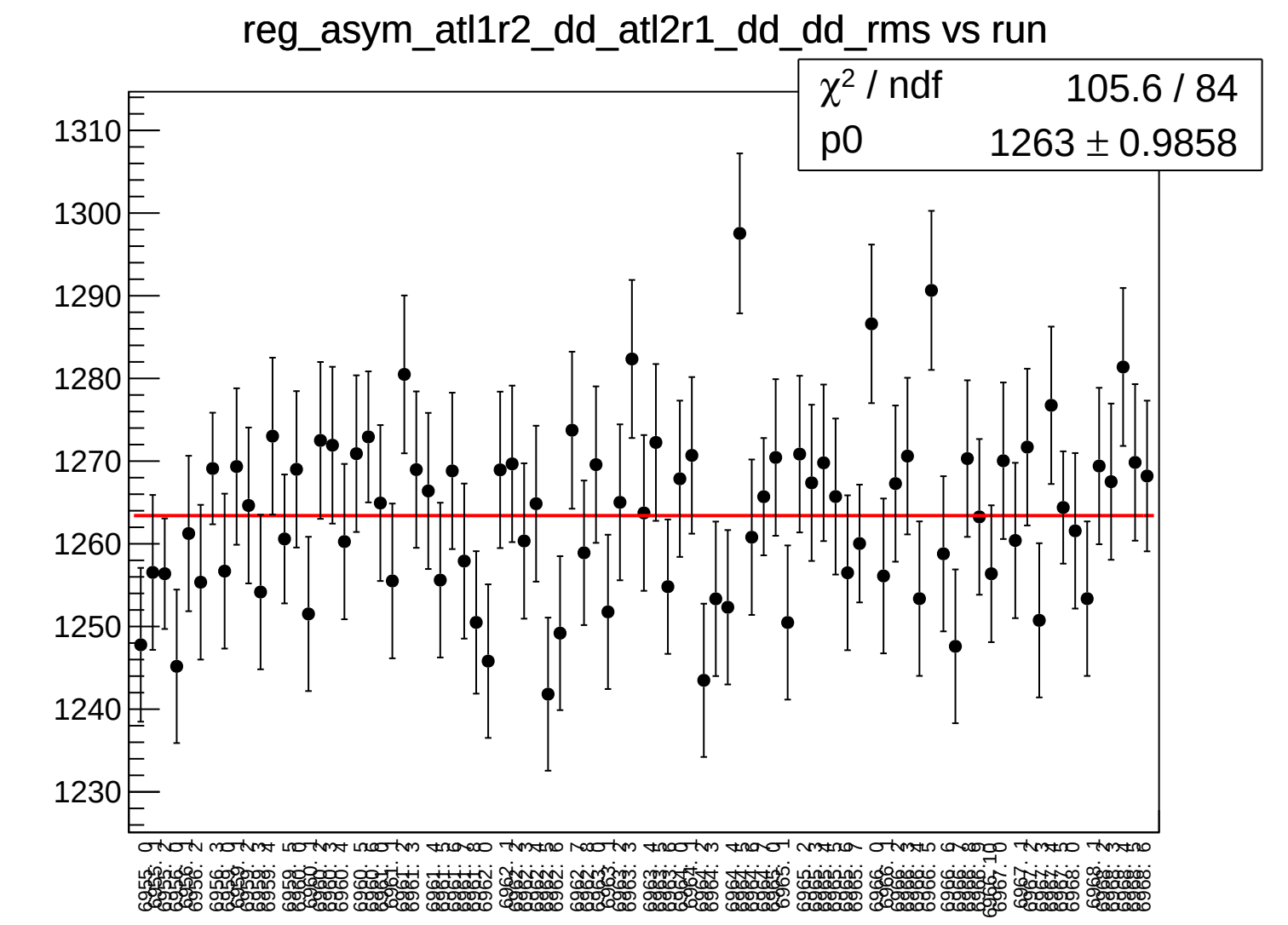

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 84
p0 353.3 ± 0.2766
440
420
400
380
360
340
320
300

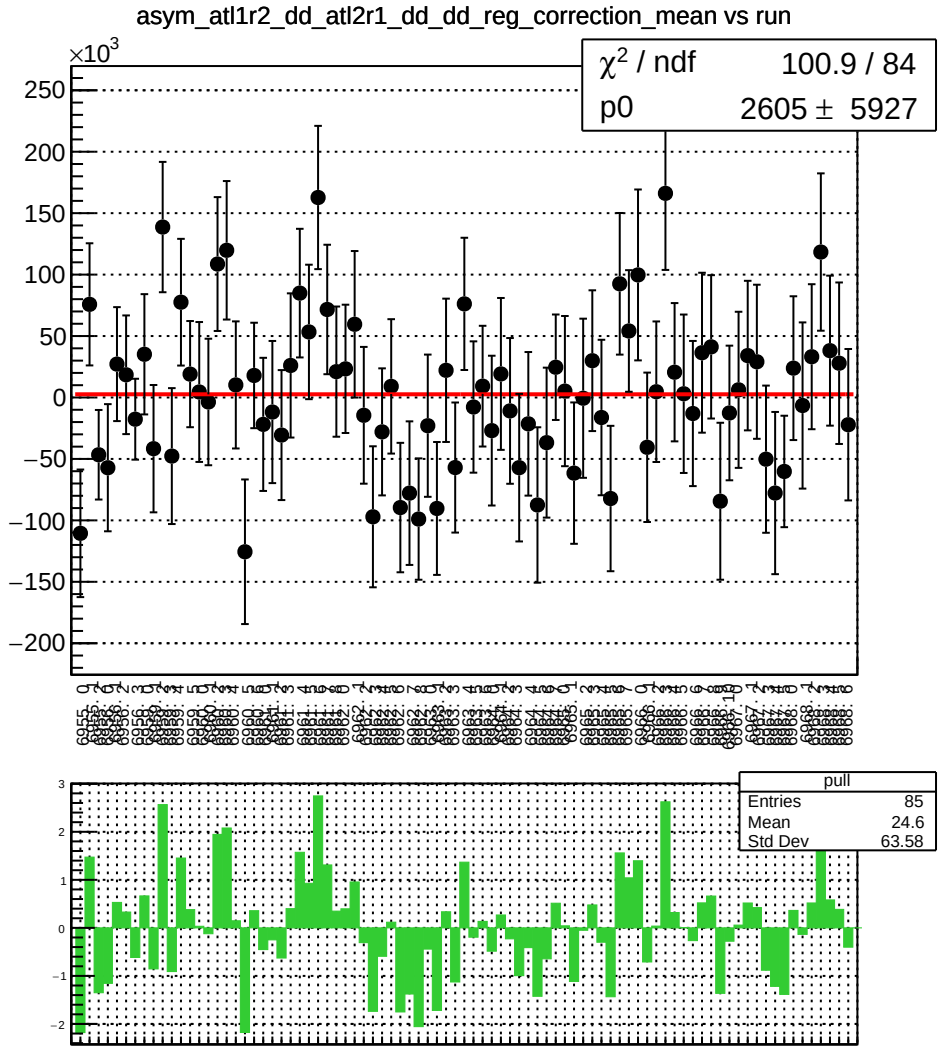

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.81 / 84
p0 −1.265e−13 ± 1.214e−13
pull
Entries 85
Mean −252.2
Std Dev 0

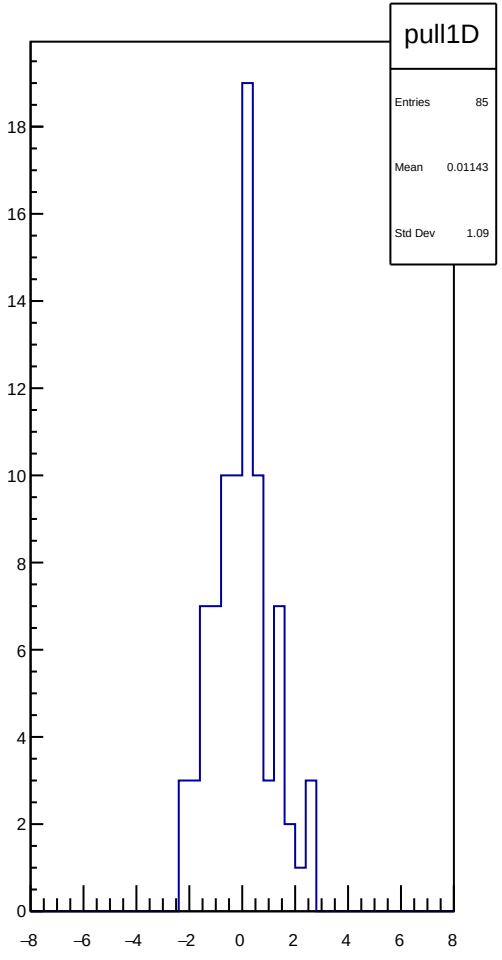

pull1D
Entries 85
Mean −0.004705
Std Dev 0.9127

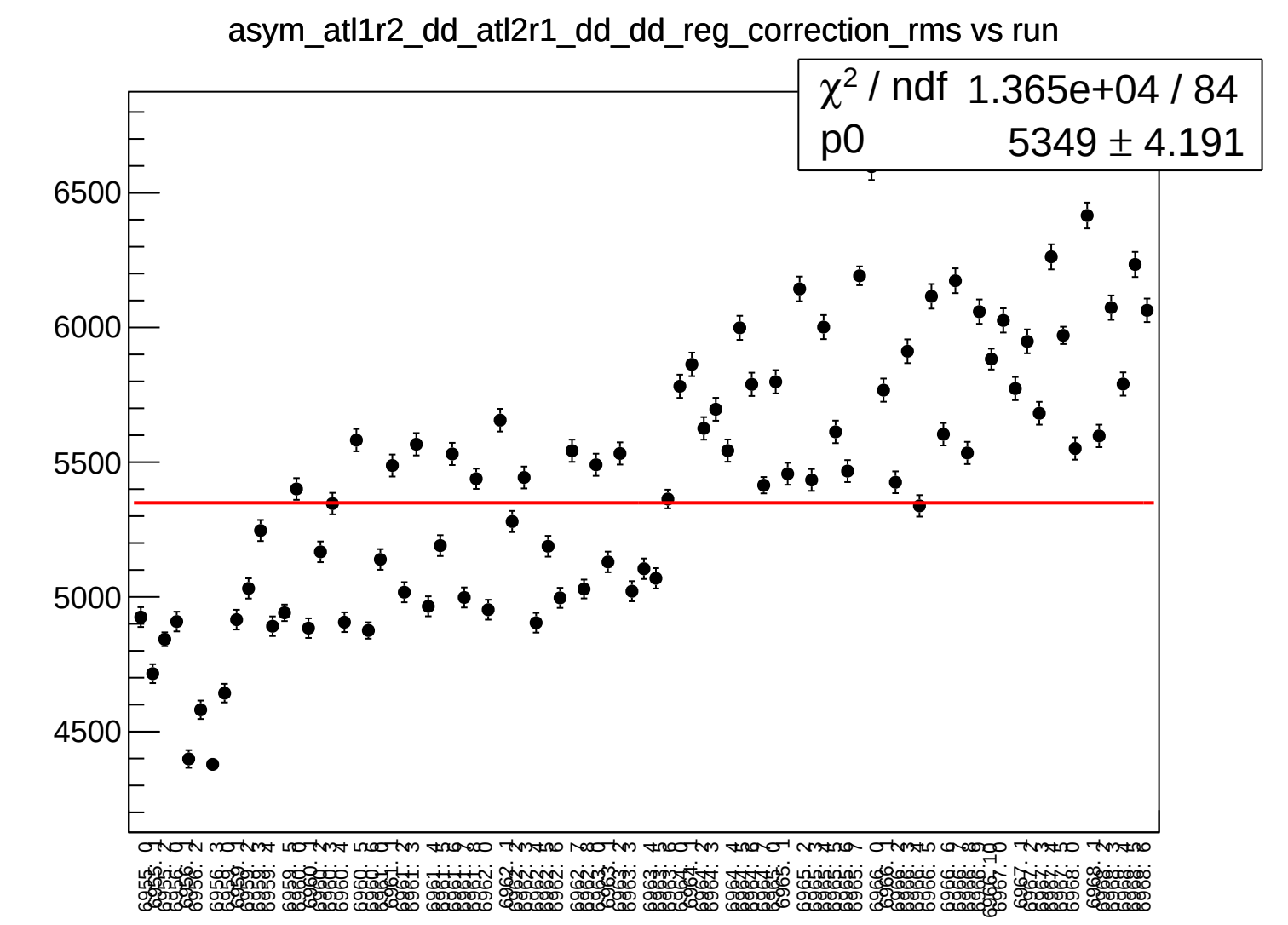

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.07e+05 / 84
p0 9.546e−11 ± 8.587e−14
0.6
0.5
0.4
0.3
0.2
0.1

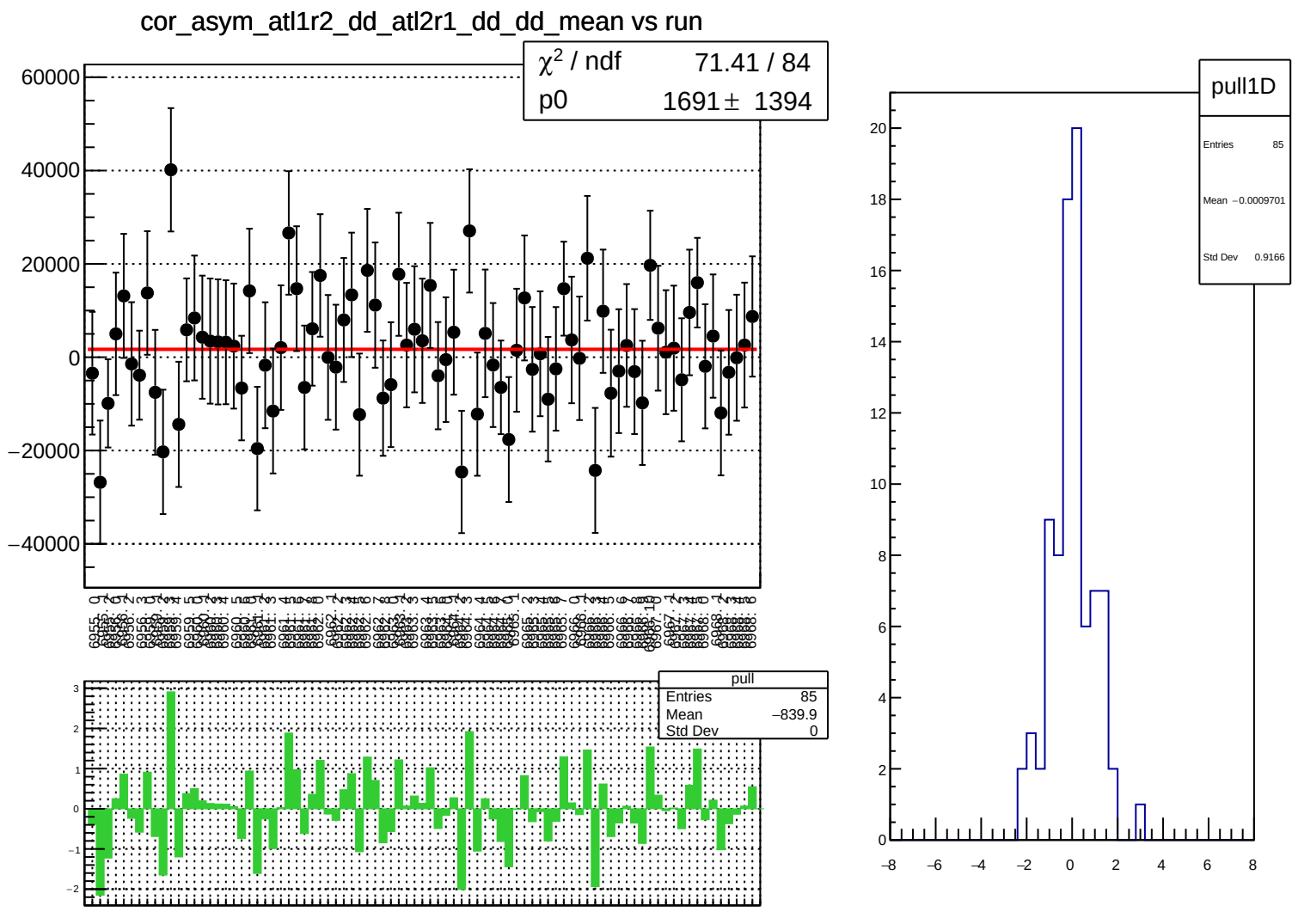

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 71.4 / 84
p0 1691 ± 1394
pull
Entries 85
Mean −838.3
Std Dev 0
pull1D
Entries 85
Mean −0.0009723
Std Dev 0.9165

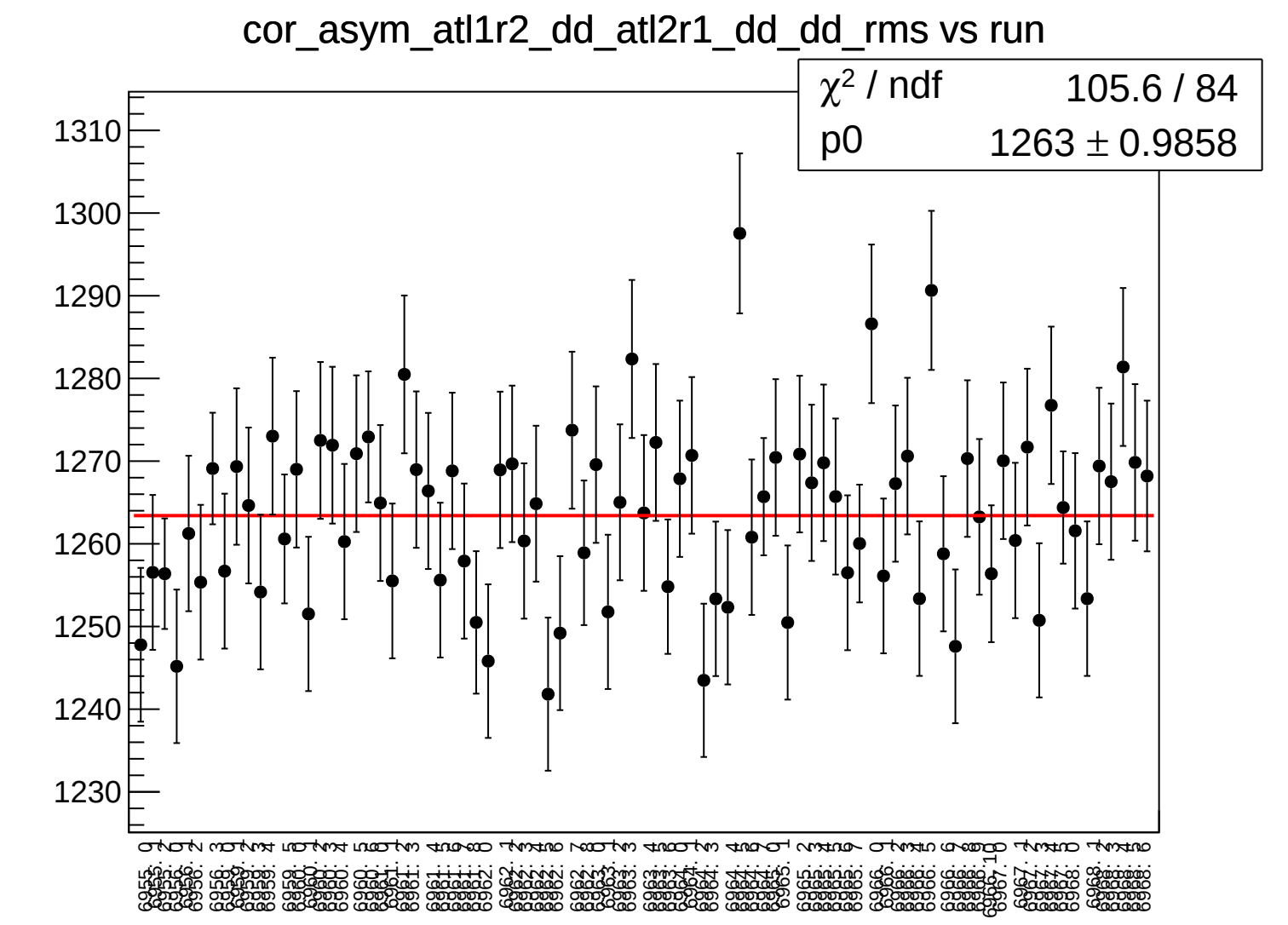

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 105.6 / 84
p0 1263 ± 0.9858
1310
1300
1290
1280
1270
1260
1250
1240
1230

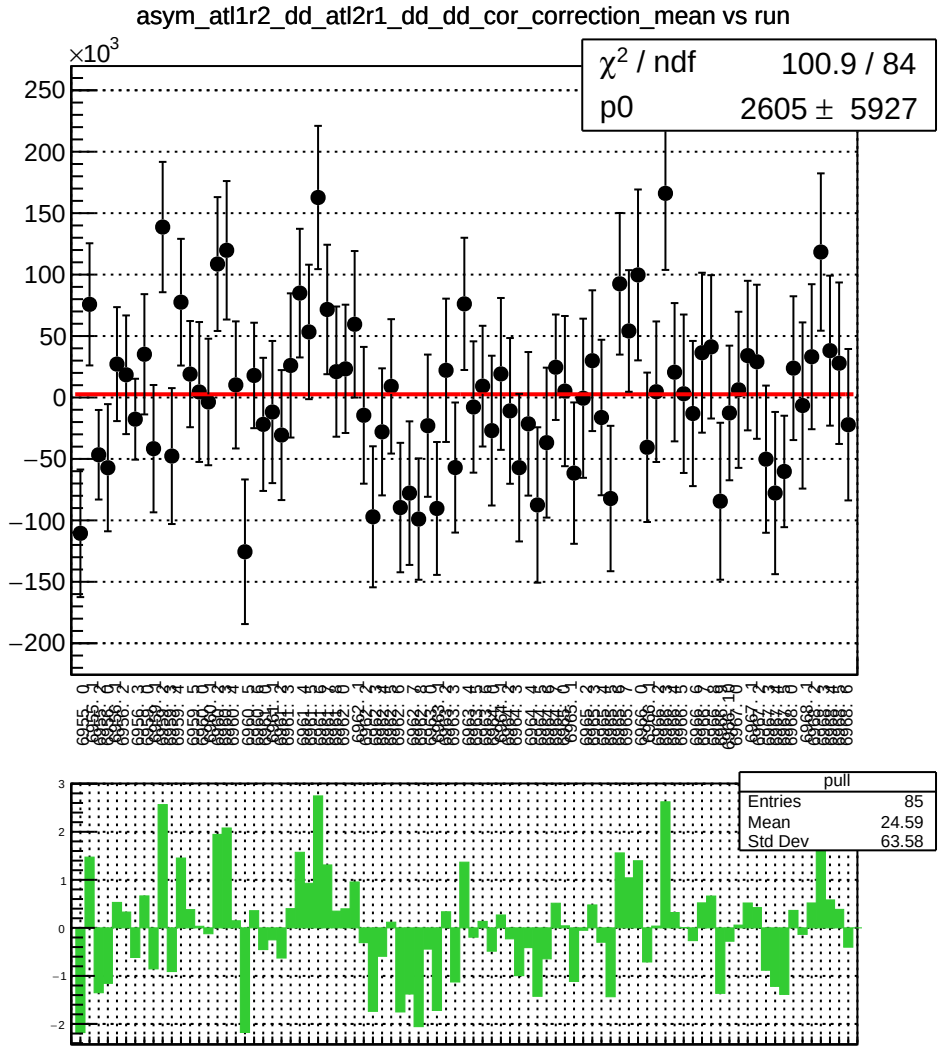

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.9 / 84
p0 2605 ± 5927
pull
Entries 85
Mean 24.6
Std Dev 63.58

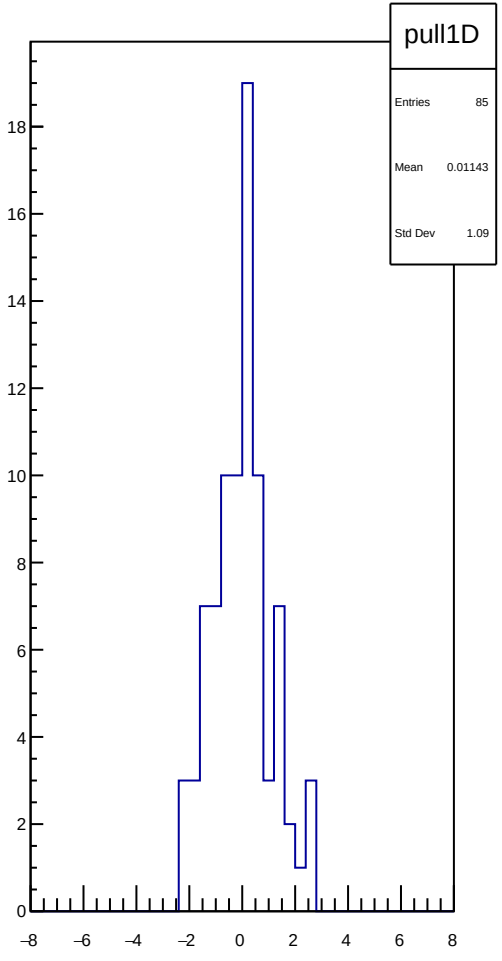

pull1D
Entries 85
Mean 0.01143
Std Dev 1.09

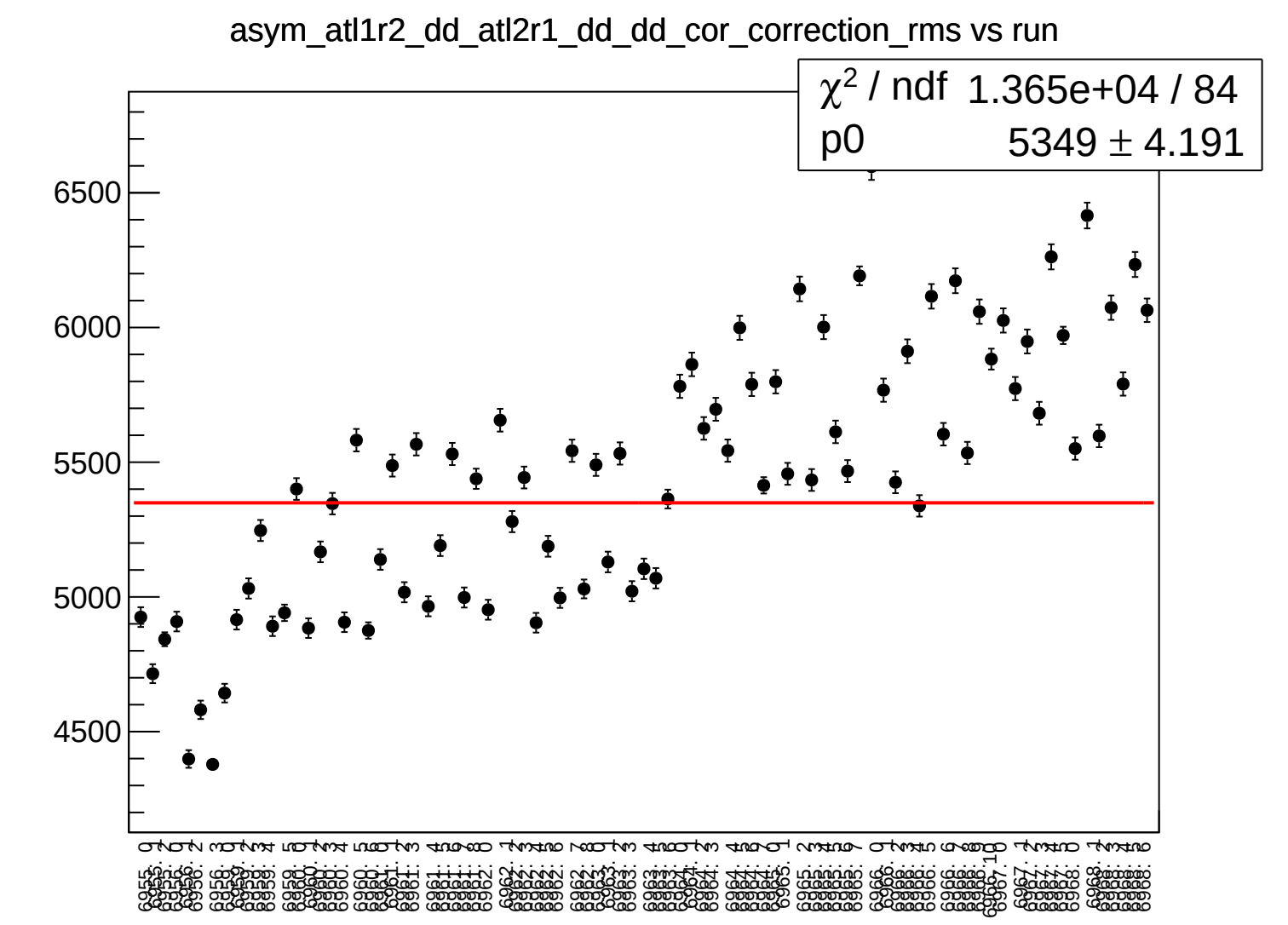

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.365e+04 / 84
p0 5349 ± 4.191
6500
6000
5500
5000
4500

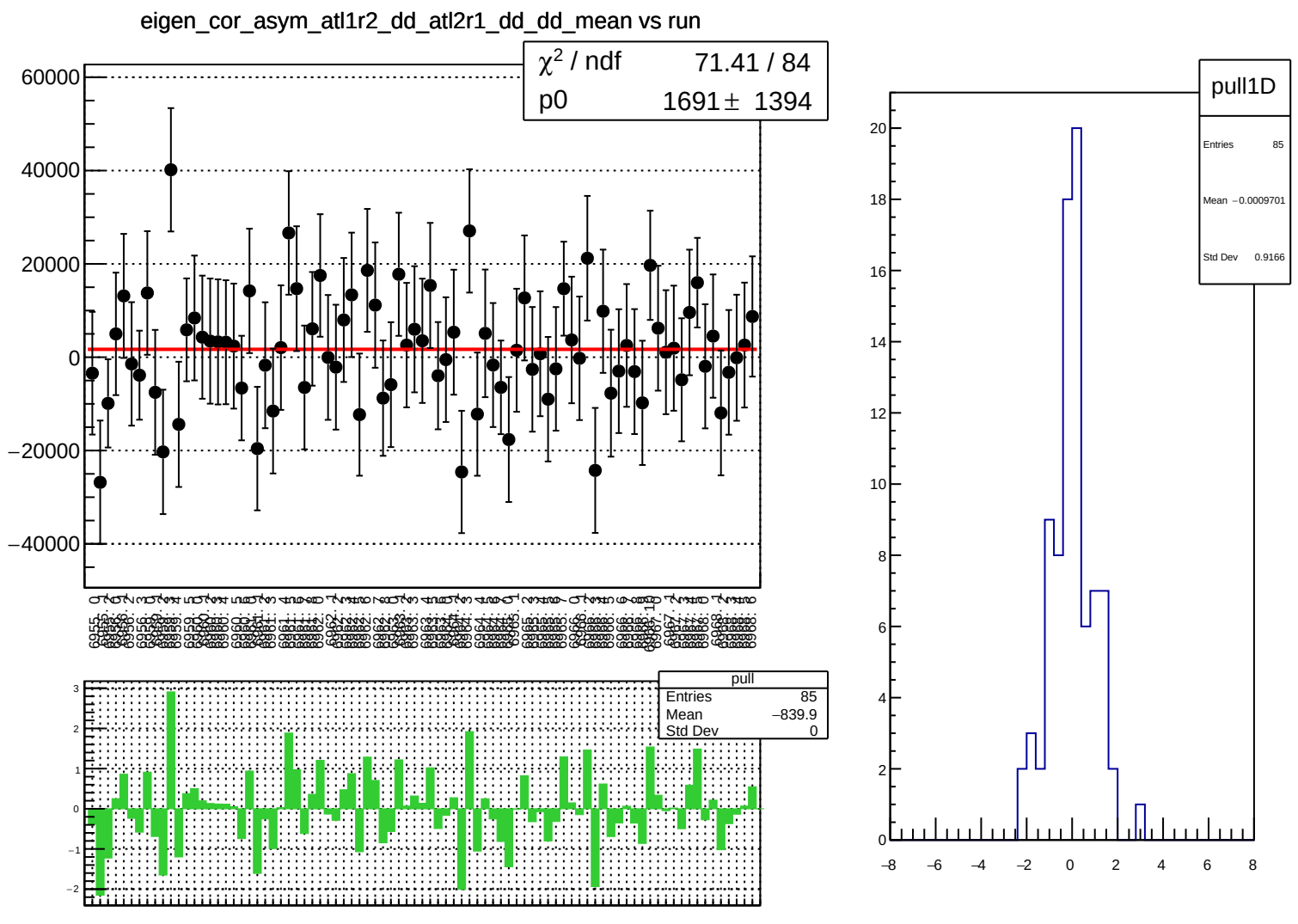

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 71.41 / 84
p0 1691 ± 1394
pull
Entries 85
Mean −839.9
Std Dev 0
pull1D
Entries 85
Mean −0.0009701
Std Dev 0.9166

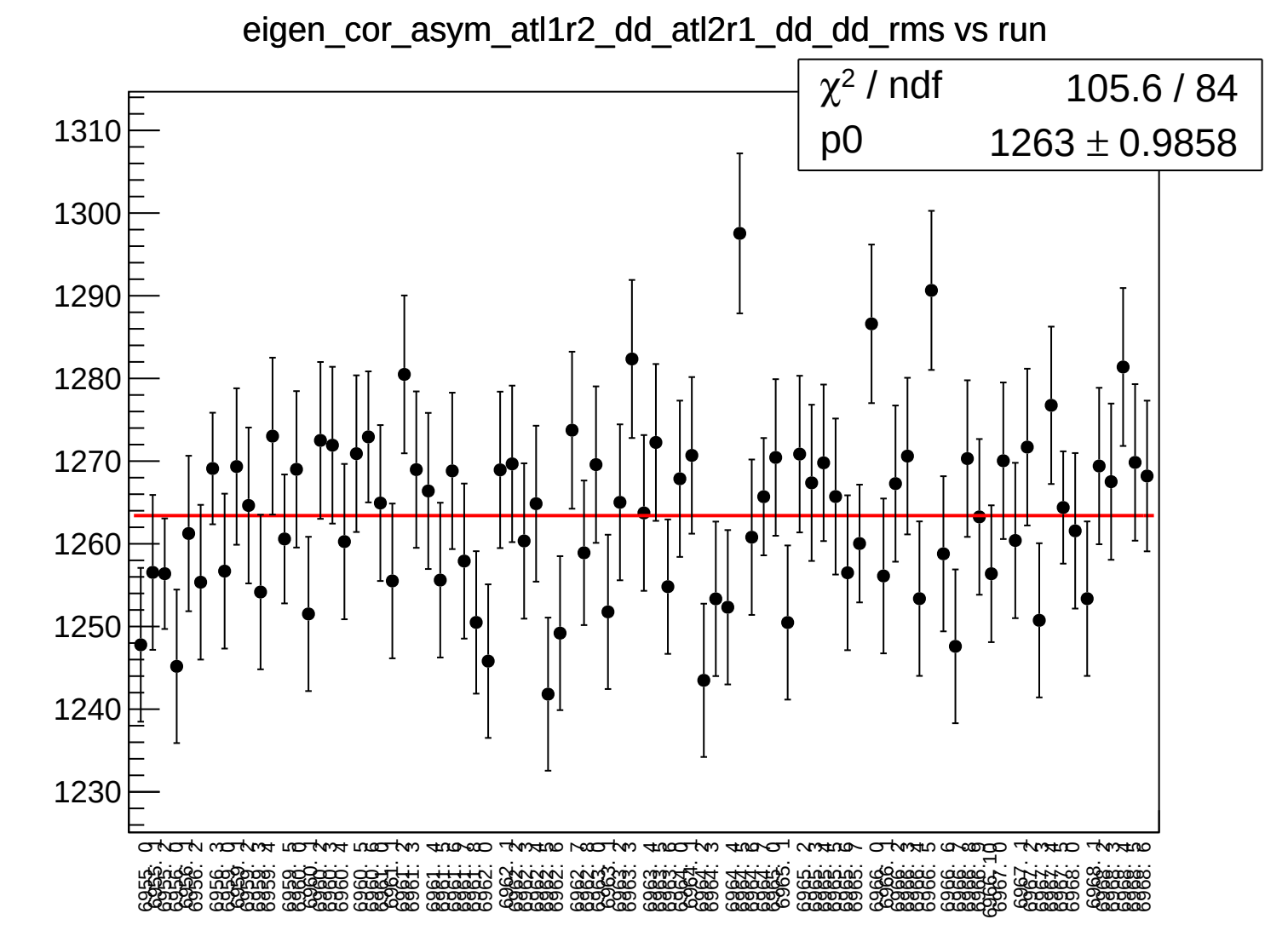

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 105.6 / 84
p0 1263 ± 0.9858
1310
1300
1290
1280
1270
1260
1250
1240
1230

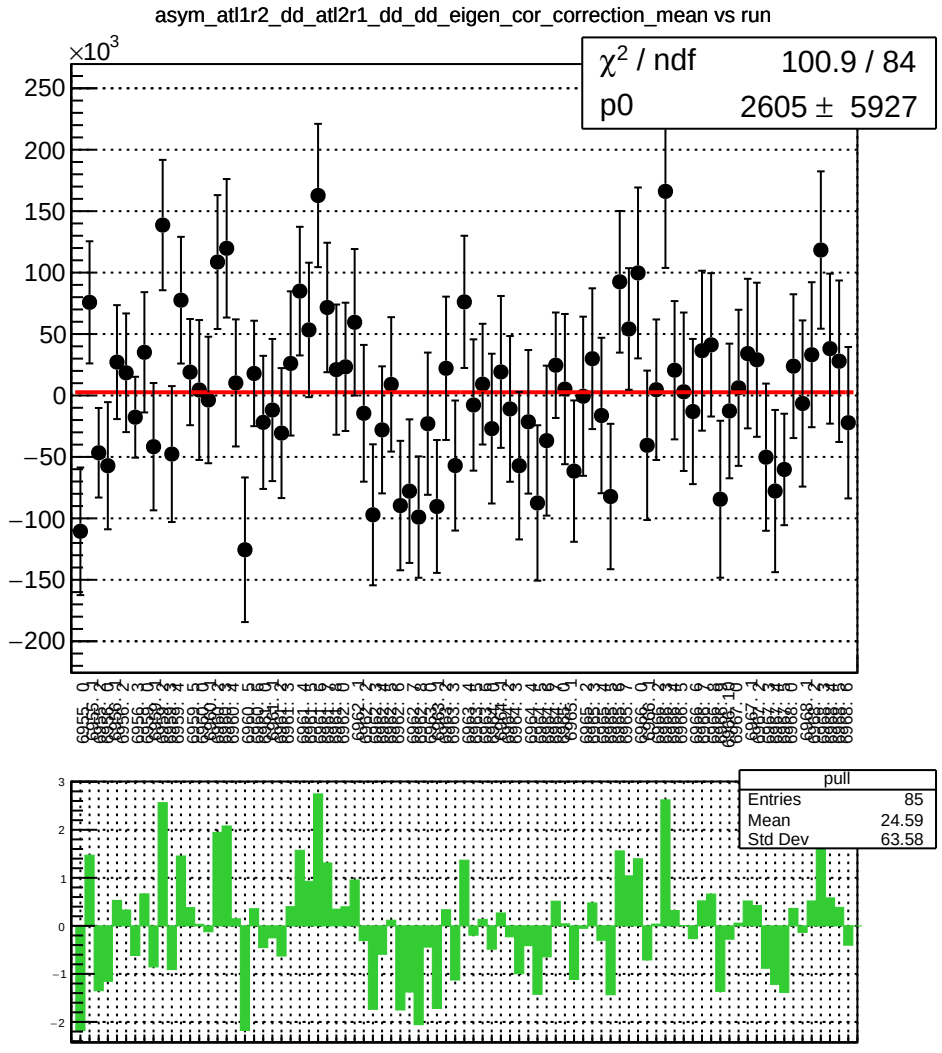

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.9 / 84
p0 2605 ± 5927
pull
Entries 85
Mean 24.59
Std Dev 63.58

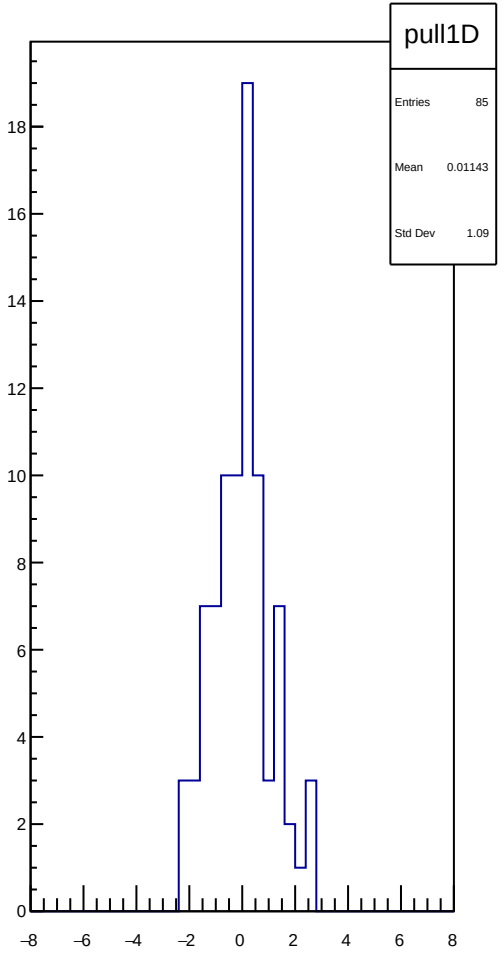

pull1D
Entries 85
Mean 0.01143
Std Dev 1.09

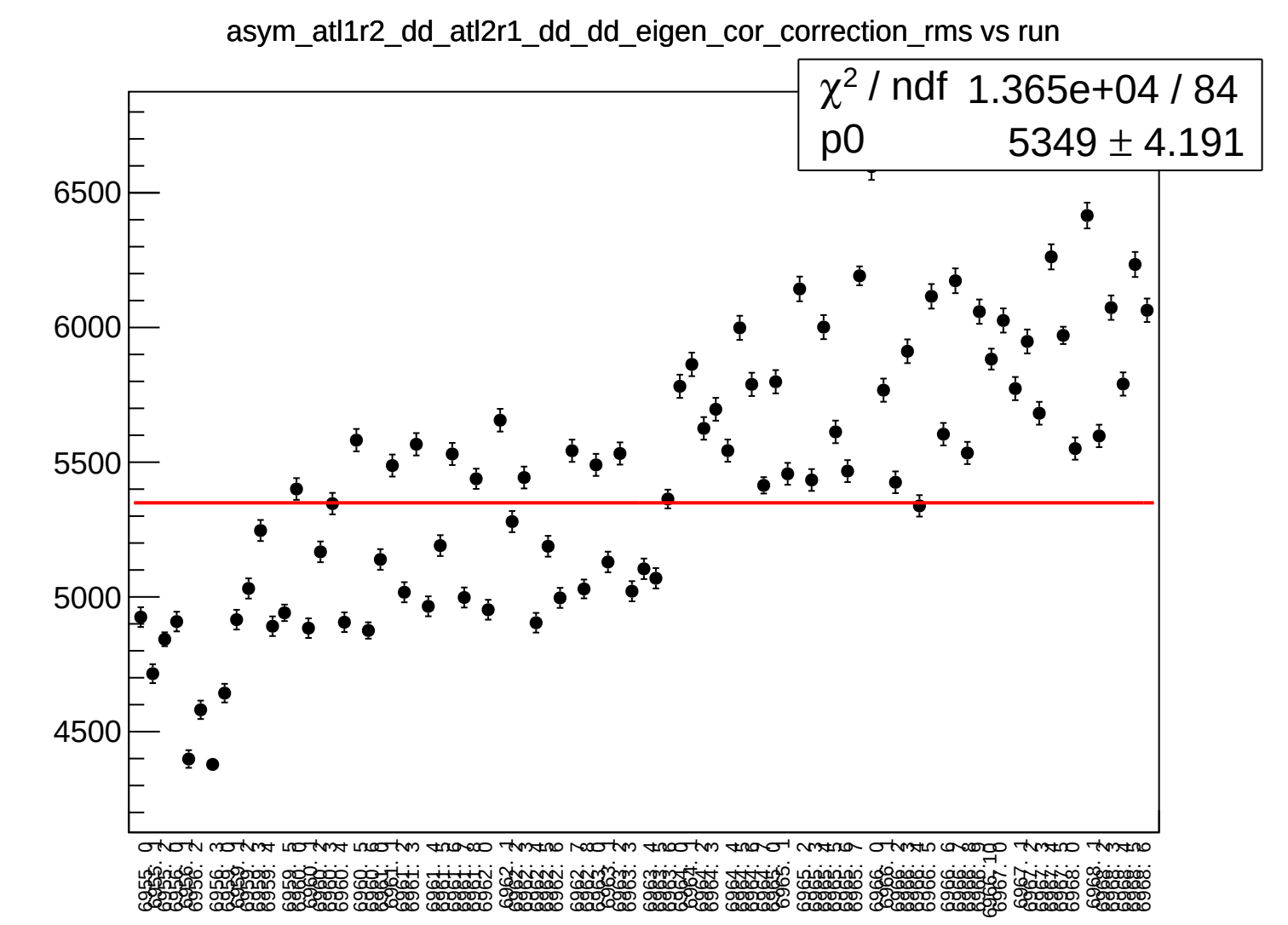

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.365e+04 / 84
p0 5349 ± 4.191
6500
6000
5500
5000
4500

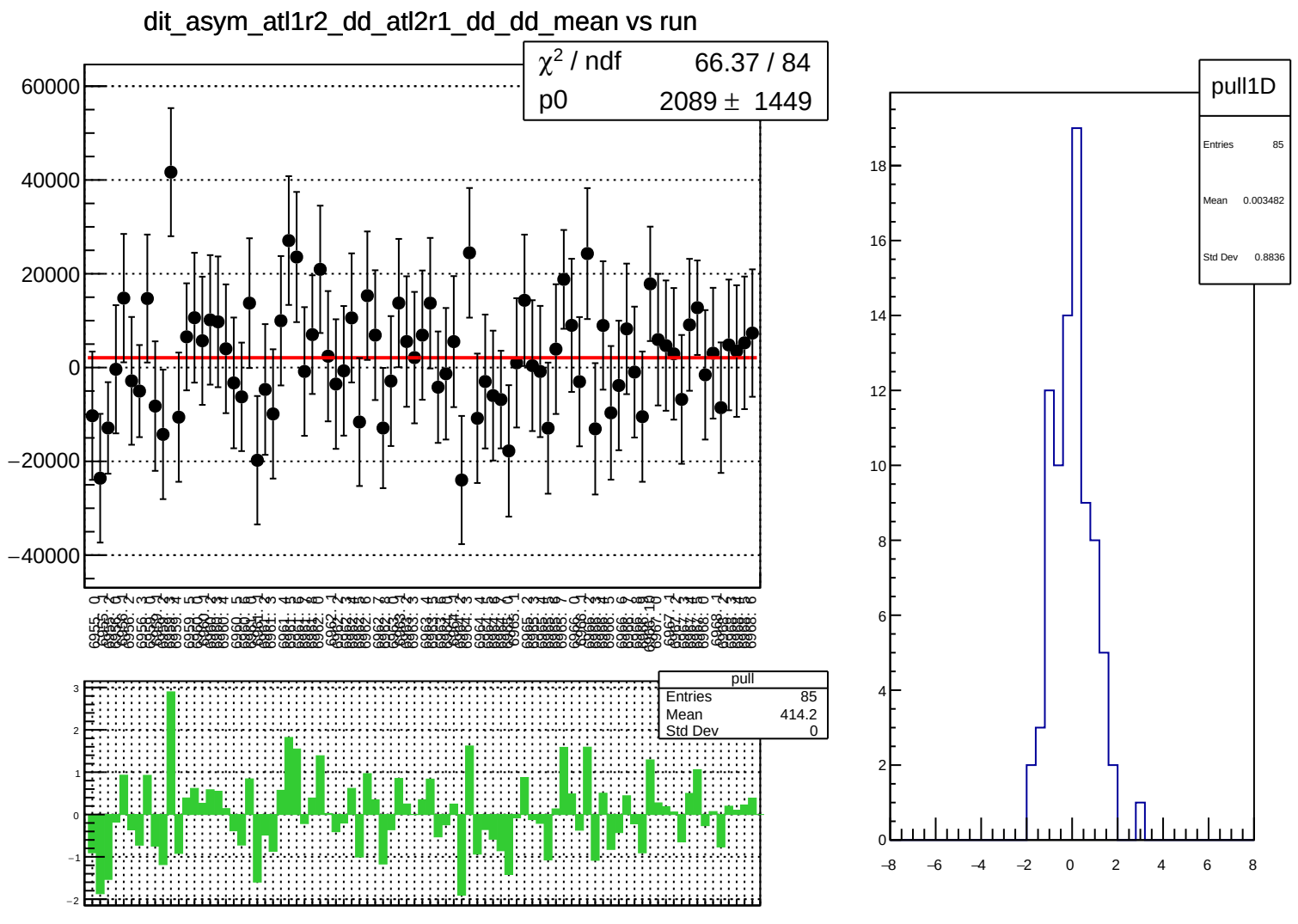

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 71.41 / 84
p0 1691 ± 1394
pull
Entries 85
Mean −839.9
Std Dev 0
pull1D
Entries 85
Mean −0.0009701
Std Dev 0.9166

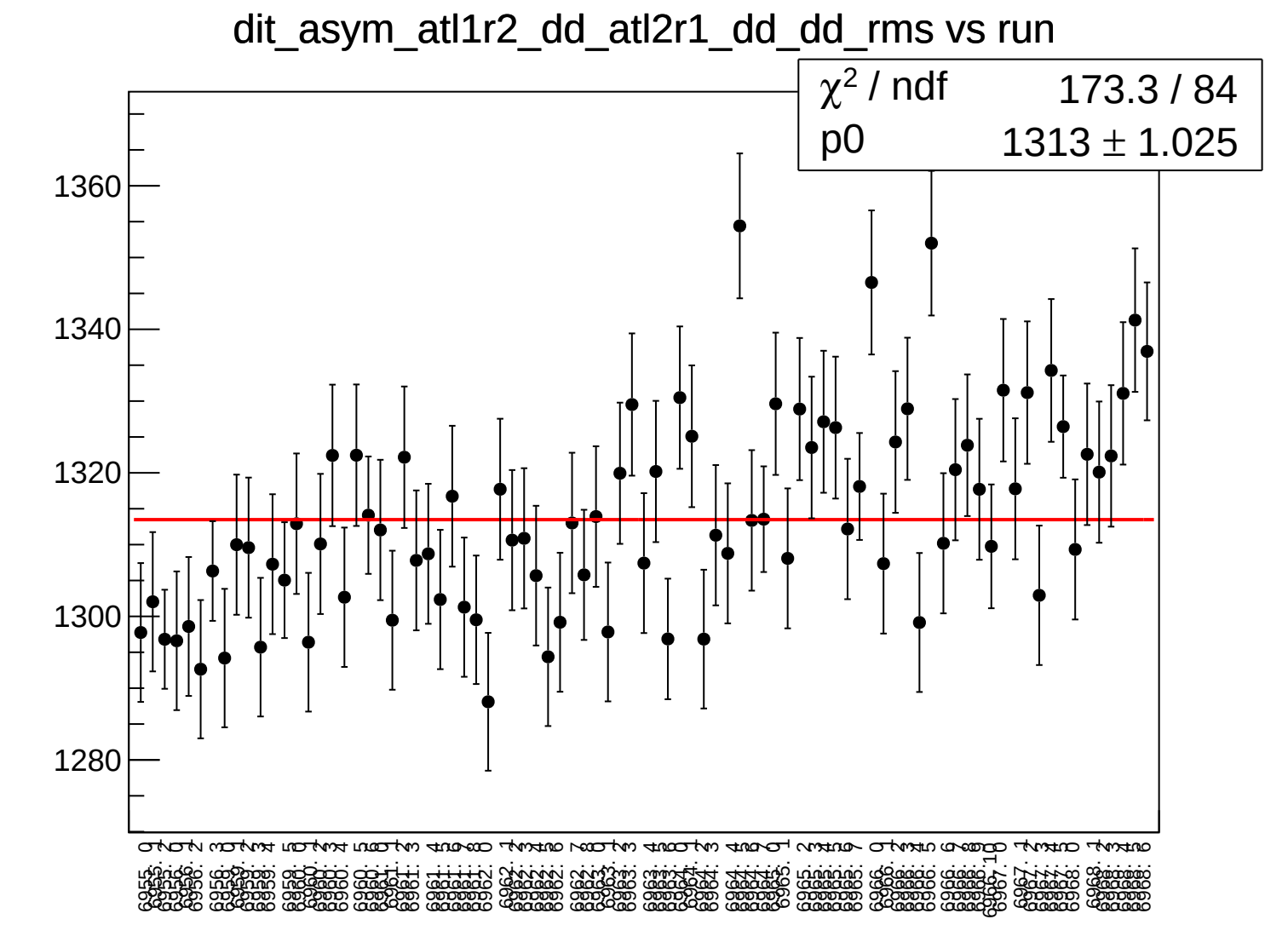

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 105.6 / 84
p0 1263 ± 0.9858
1310
1300
1290
1280
1270
1260
1250
1240
1230

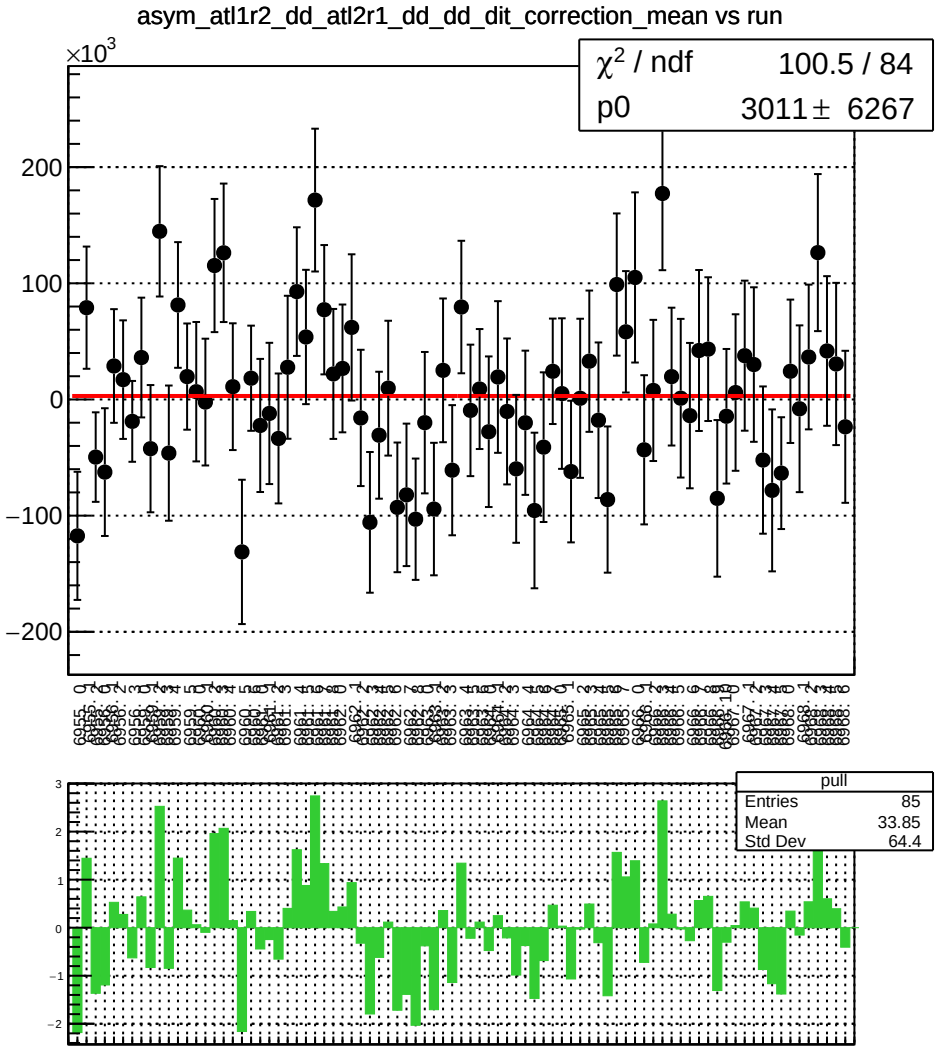

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.9 / 84
p0 2605 ± 5927
pull
Entries 85
Mean 24.59
Std Dev 63.58

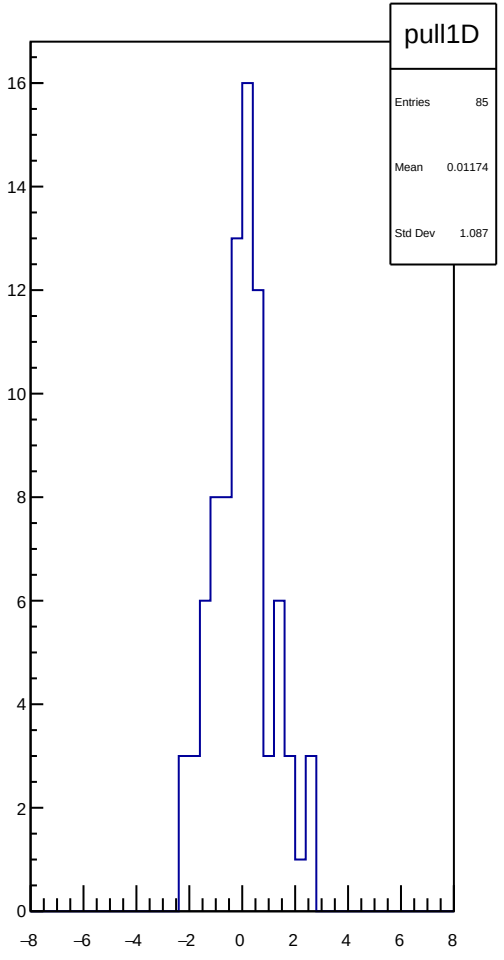

pull1D
Entries 85
Mean 0.01143
Std Dev 1.09

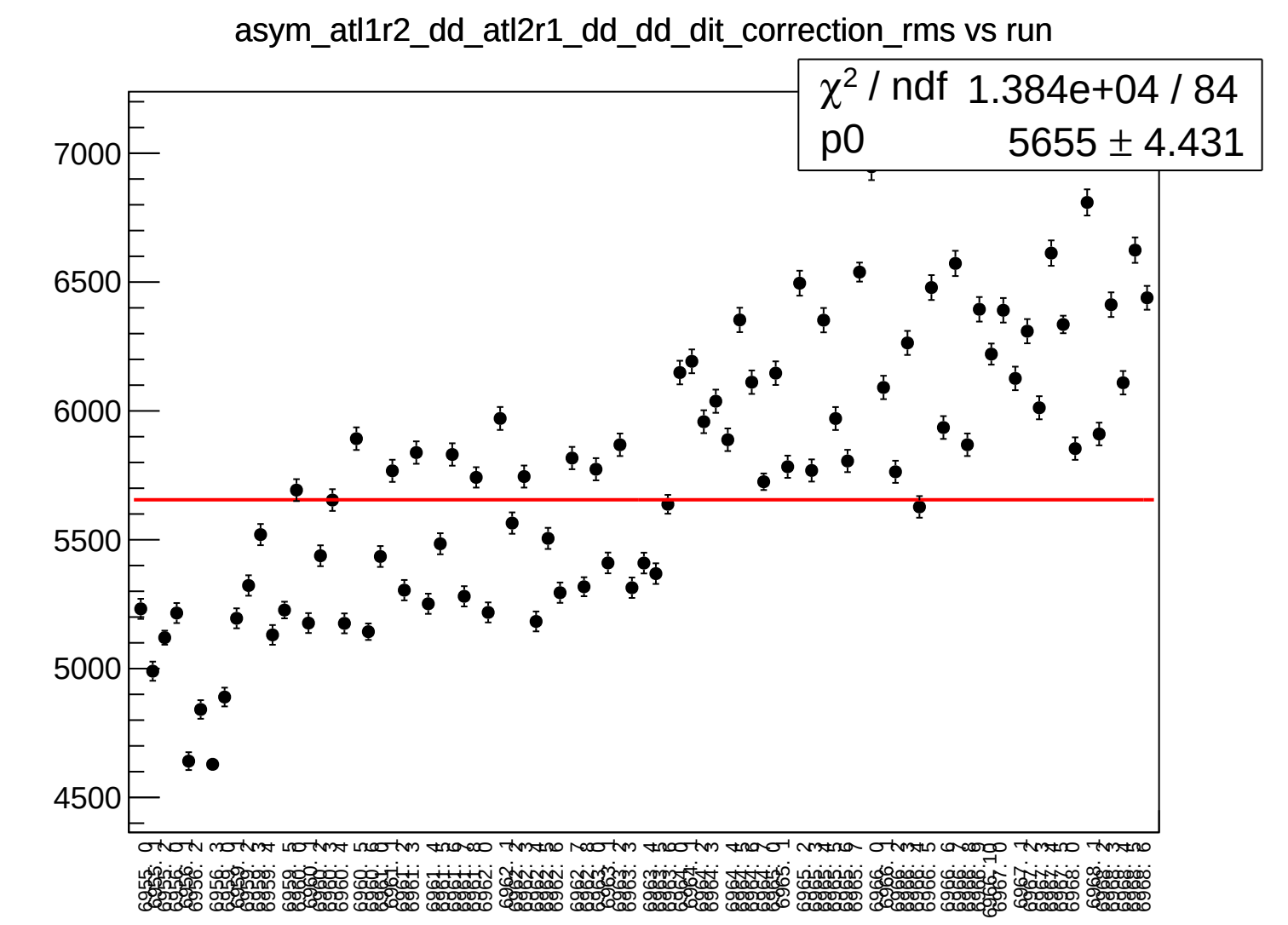

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.365e+04 / 84
p0 5349 ± 4.191
6500
6000
5500
5000
4500

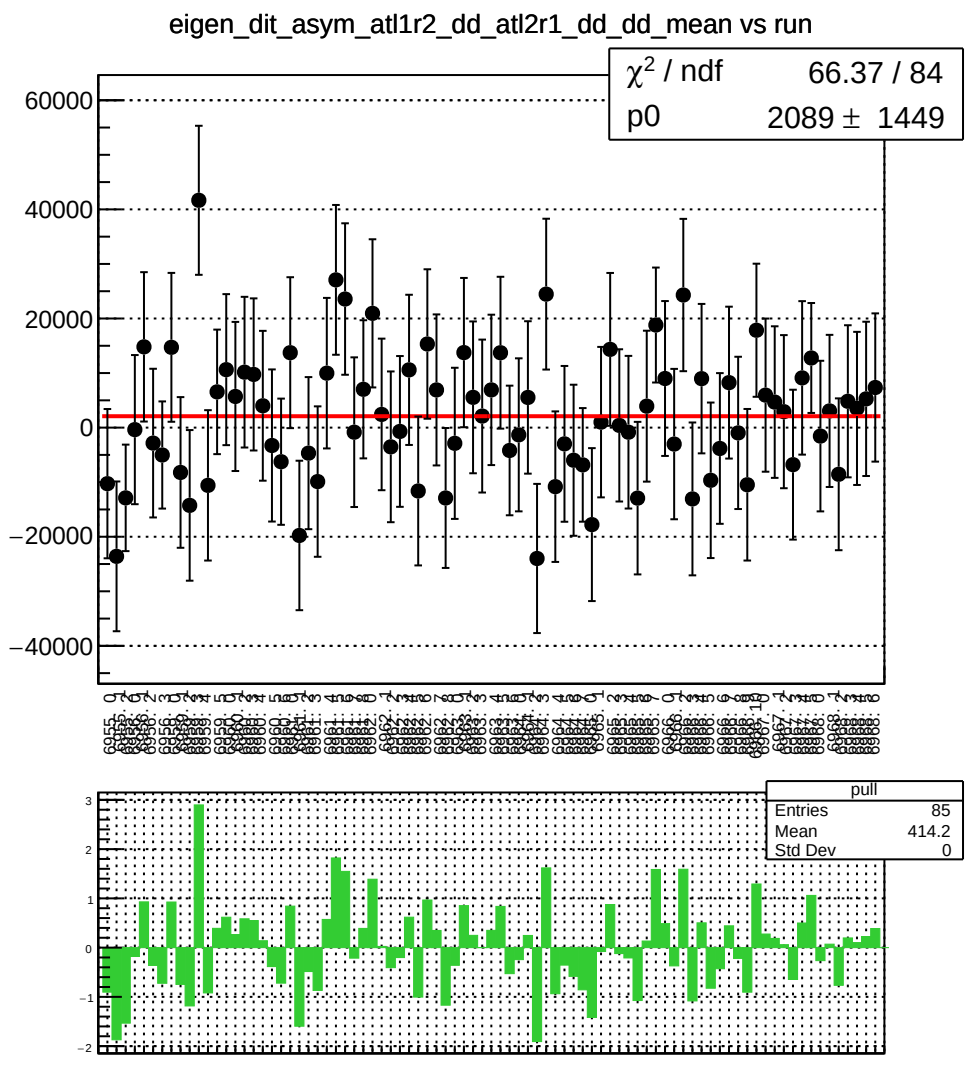

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 66.37 / 84
p0 2089 ± 1449
pull
Entries 85
Mean 414.2
Std Dev 0
pull1D
Entries 85
Mean 0.003482
Std Dev 0.8836

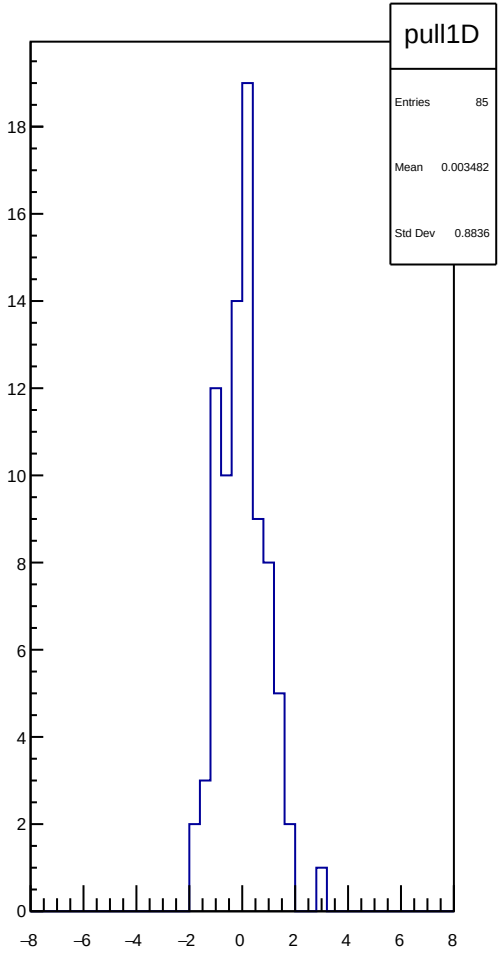

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
$\chi^2$ / ndf 173.3 / 84
p0 1313 ± 1.025
1360
1340
1320
1300
1280

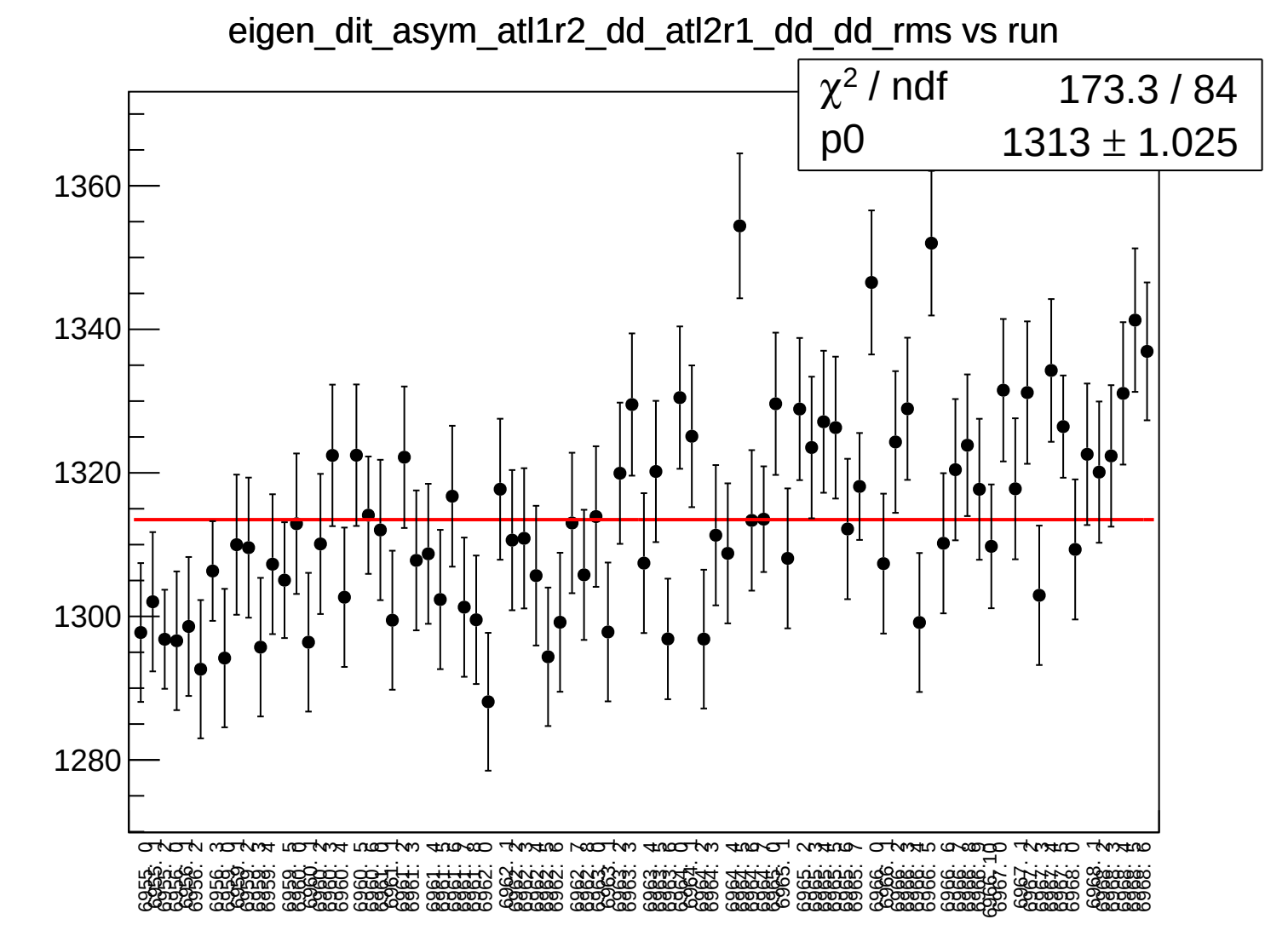

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 100.5 / 84
p0 3011 ± 6267
200
100
0
−100
−200
pull
Entries 85
Mean 33.85
Std Dev 64.4
3
2
1
0
−1
−2

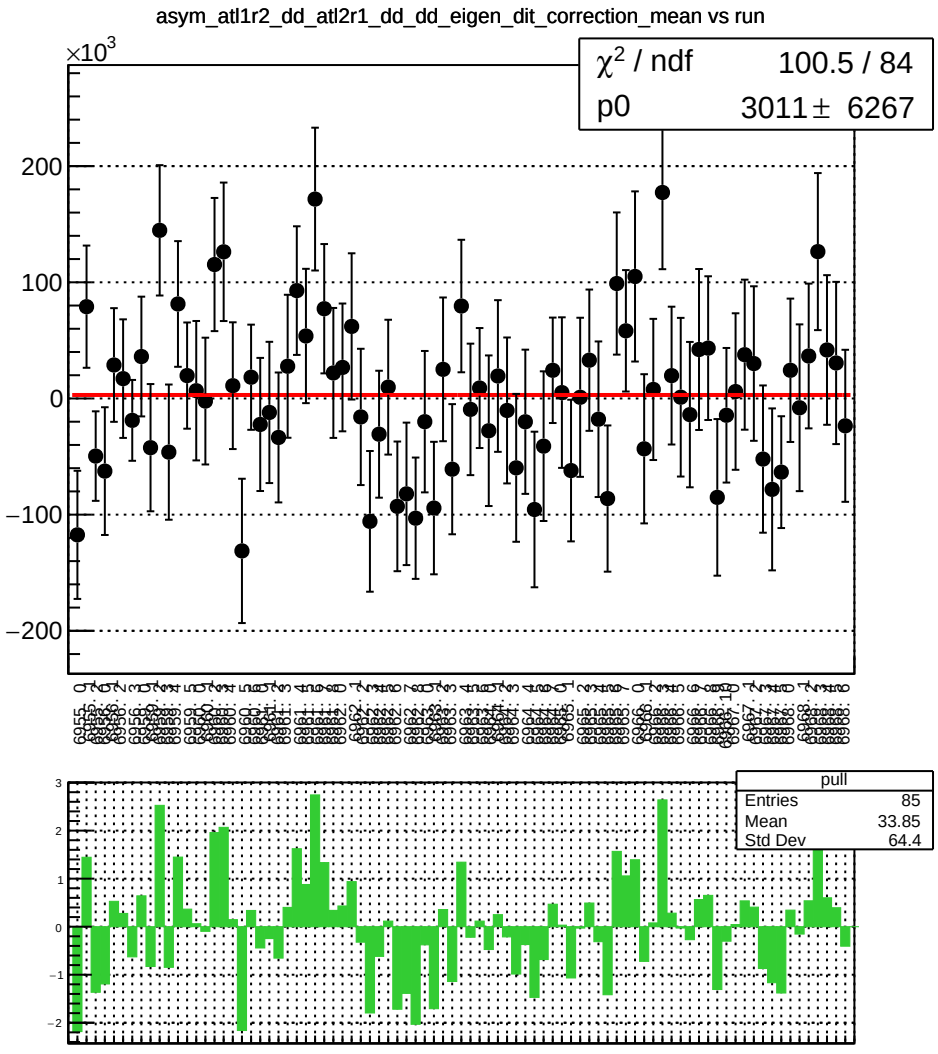

pull1D
Entries 85
Mean 0.01174
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

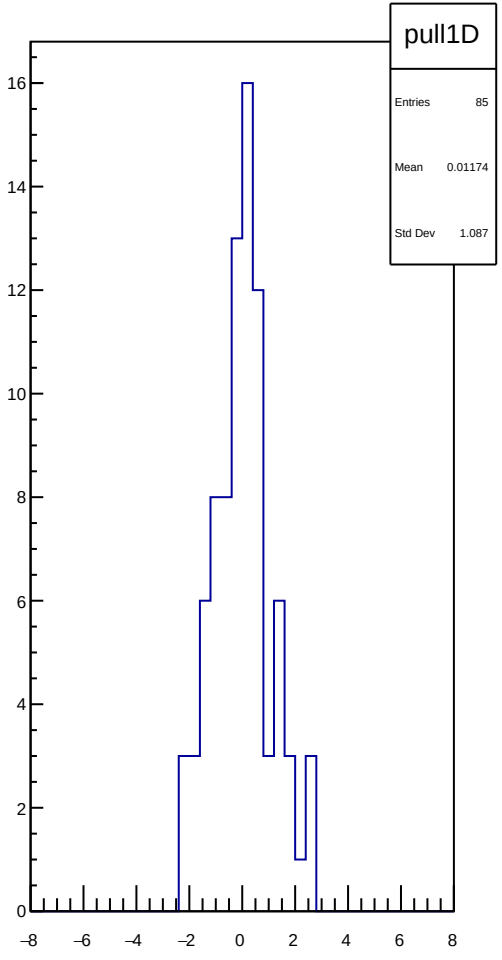

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.384e+04 / 84
p0 5655 ± 4.431
7000
6500
6000
5500
5000
4500

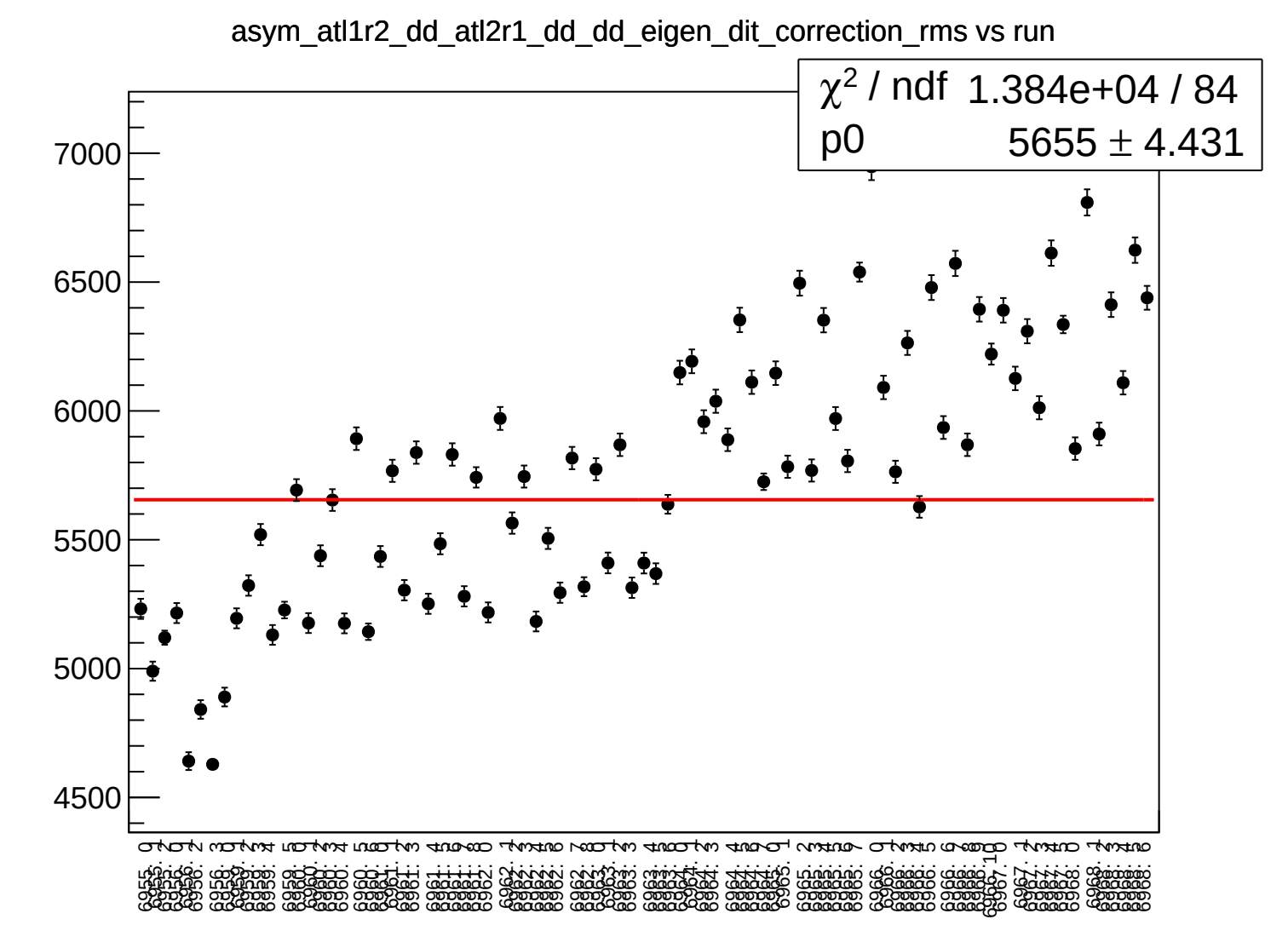

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 66.37 / 84
p0 2089 ± 1449
pull
Entries 85
Mean 414.2
Std Dev 0

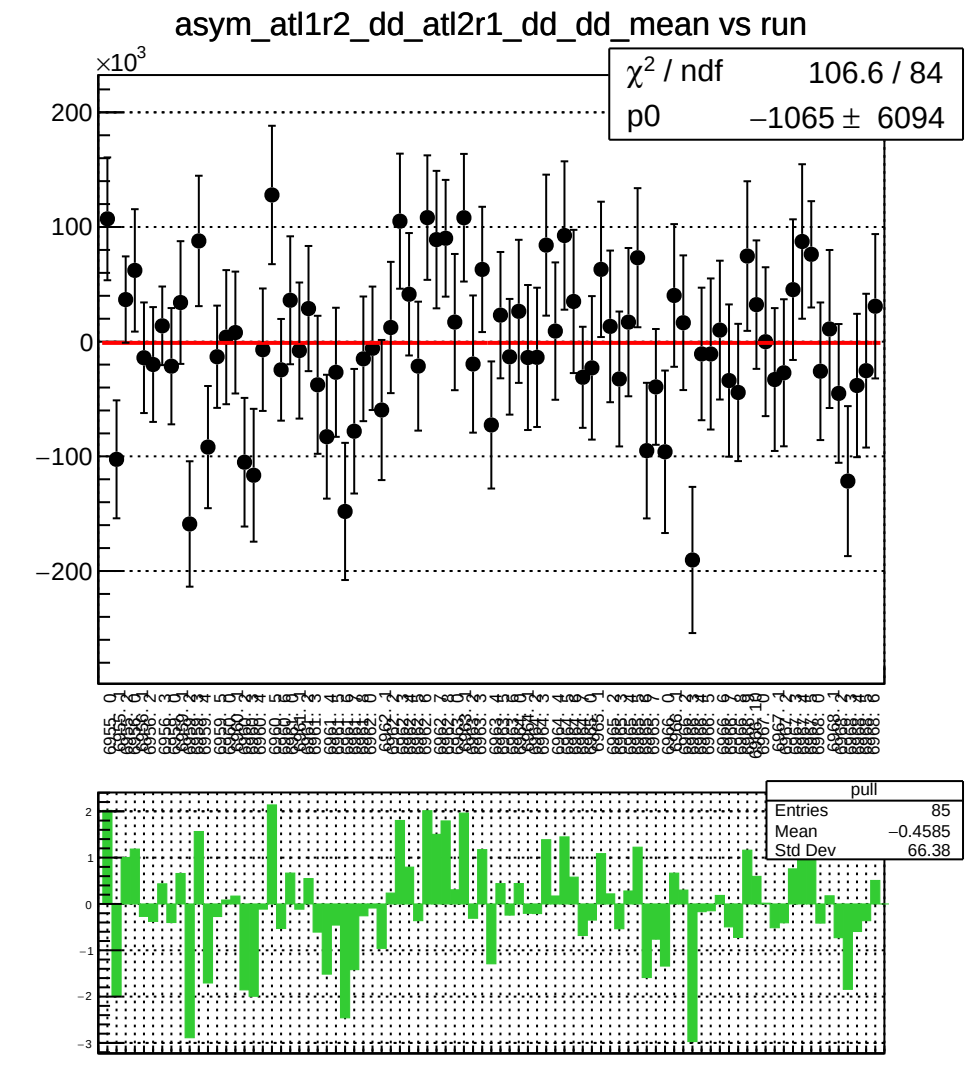

pull1D
Entries 85
Mean 0.003482
Std Dev 0.8836

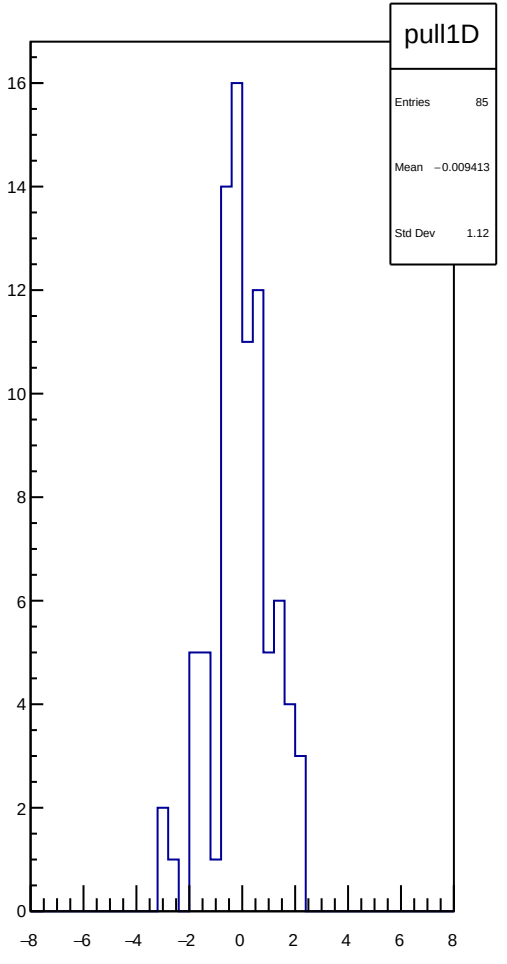

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 173.3 / 84
p0 1313 ± 1.025
1360
1340
1320
1300
1280

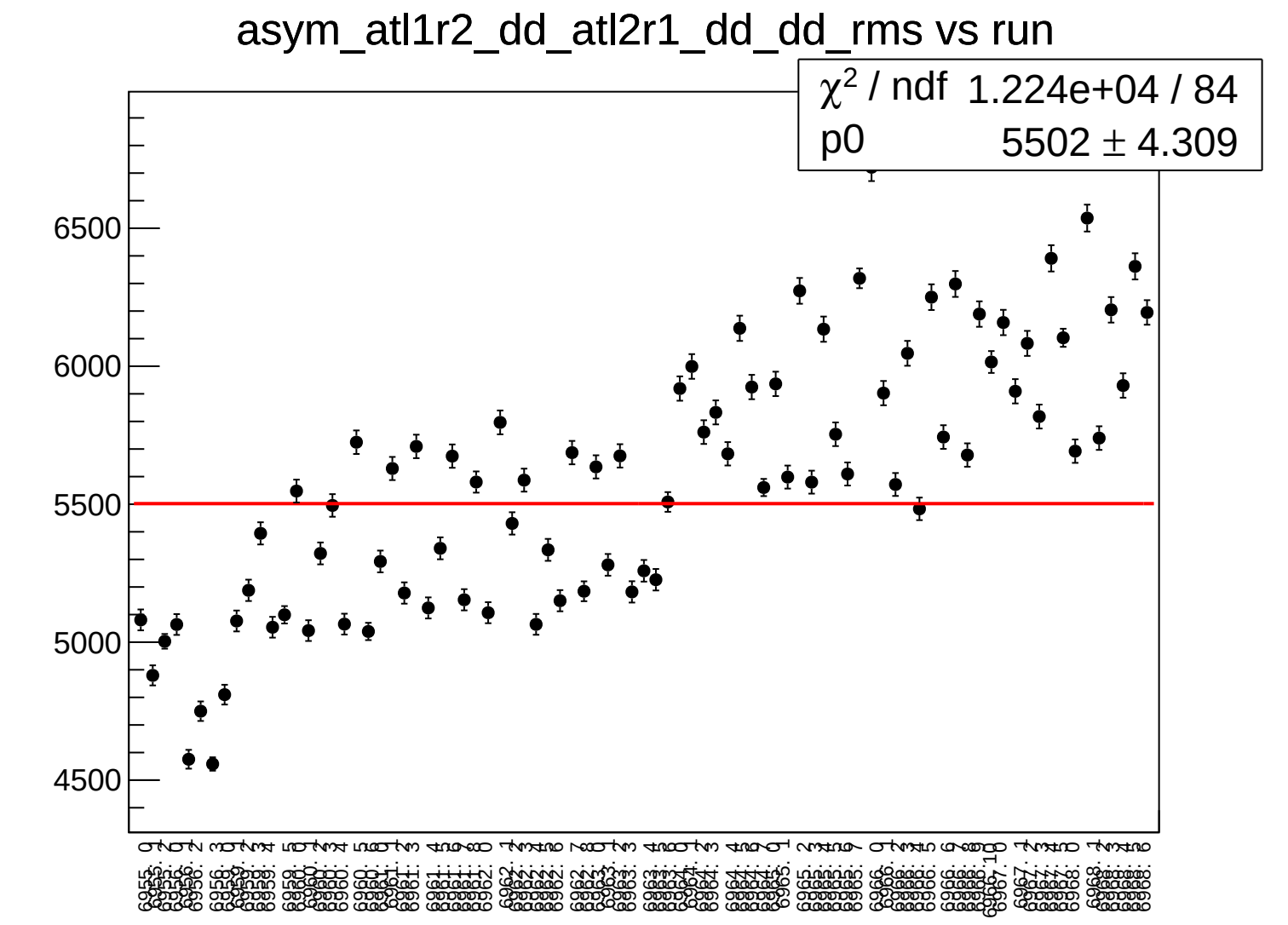

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.5 / 84
p0 3011 ± 6267
200
100
0
−100
−200
pull
Entries 85
Mean 33.85
Std Dev 64.4
3
2
1
0
−1
−2

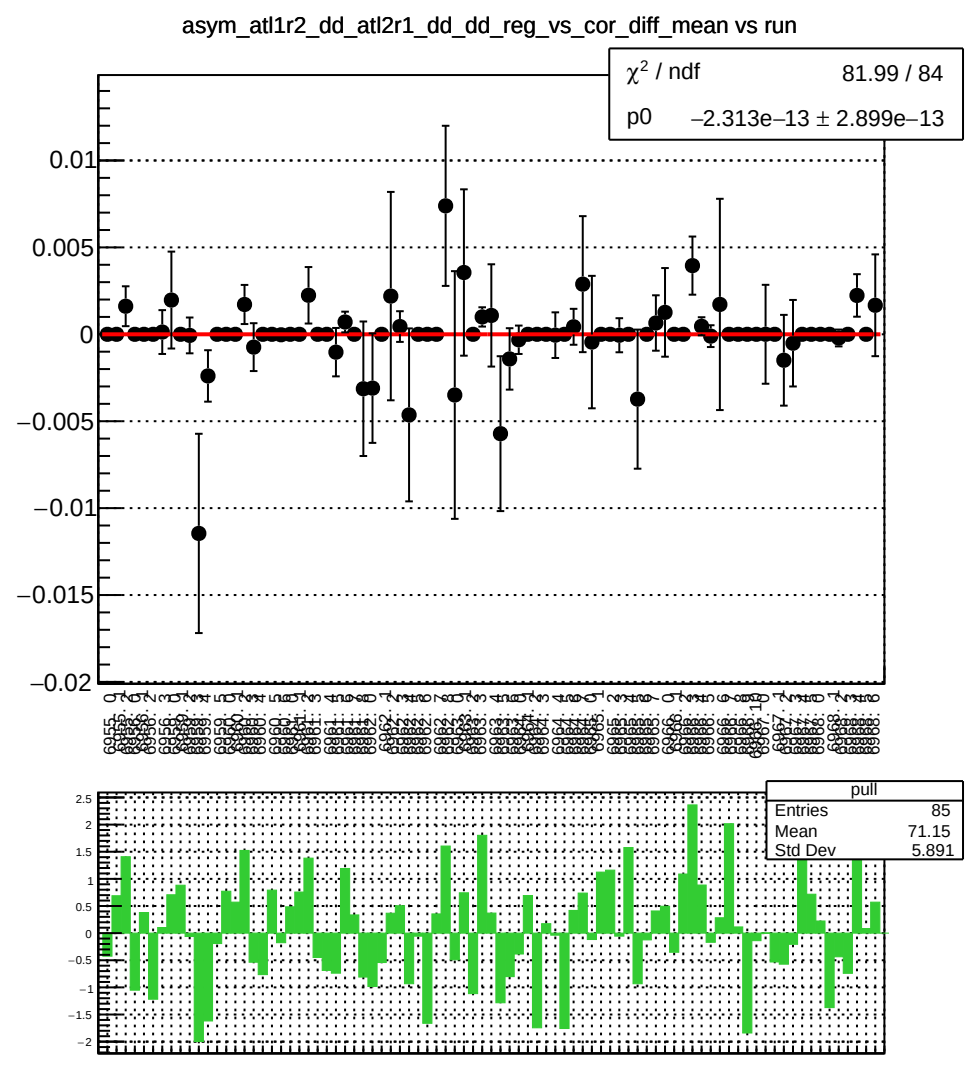

pull1D
Entries 85
Mean 0.01174
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

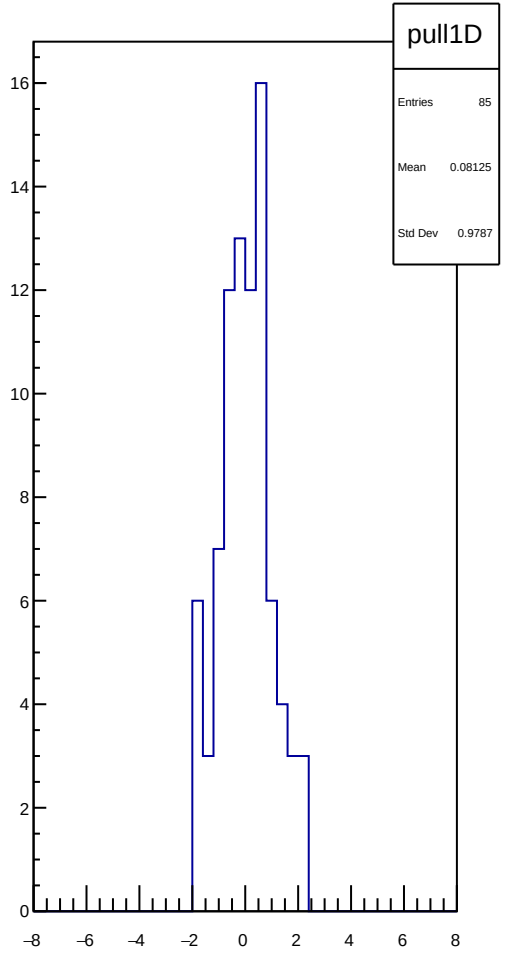

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.384e+04 / 84
p0 5655 ± 4.431
7000
6500
6000
5500
5000
4500

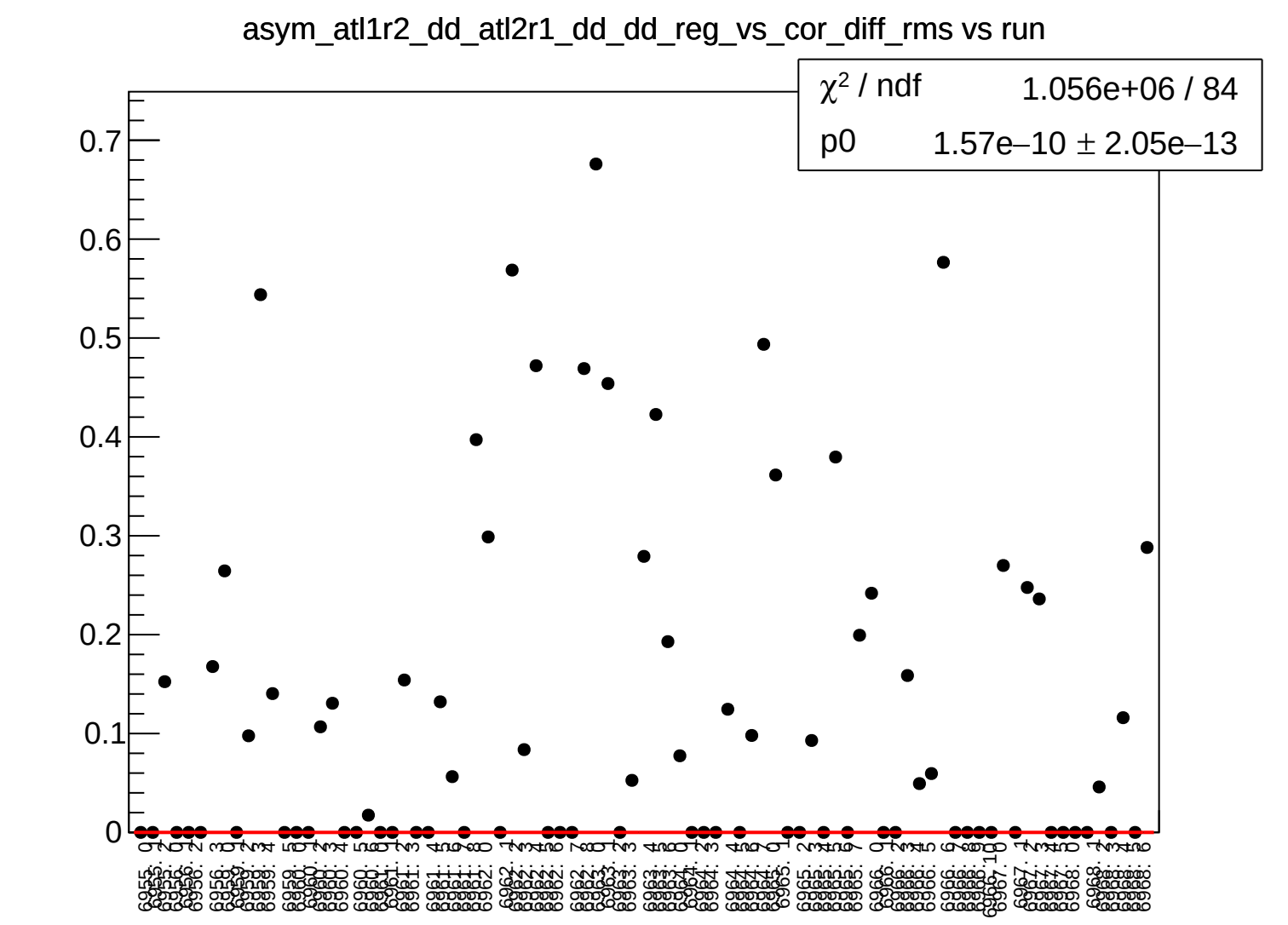

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 106.6 / 84
p0 −1065 ± 6094
200
100
0
−100
−200
pull
Entries 85
Mean −0.4585
Std Dev 66.38
2
1
0
−1
−2
−3

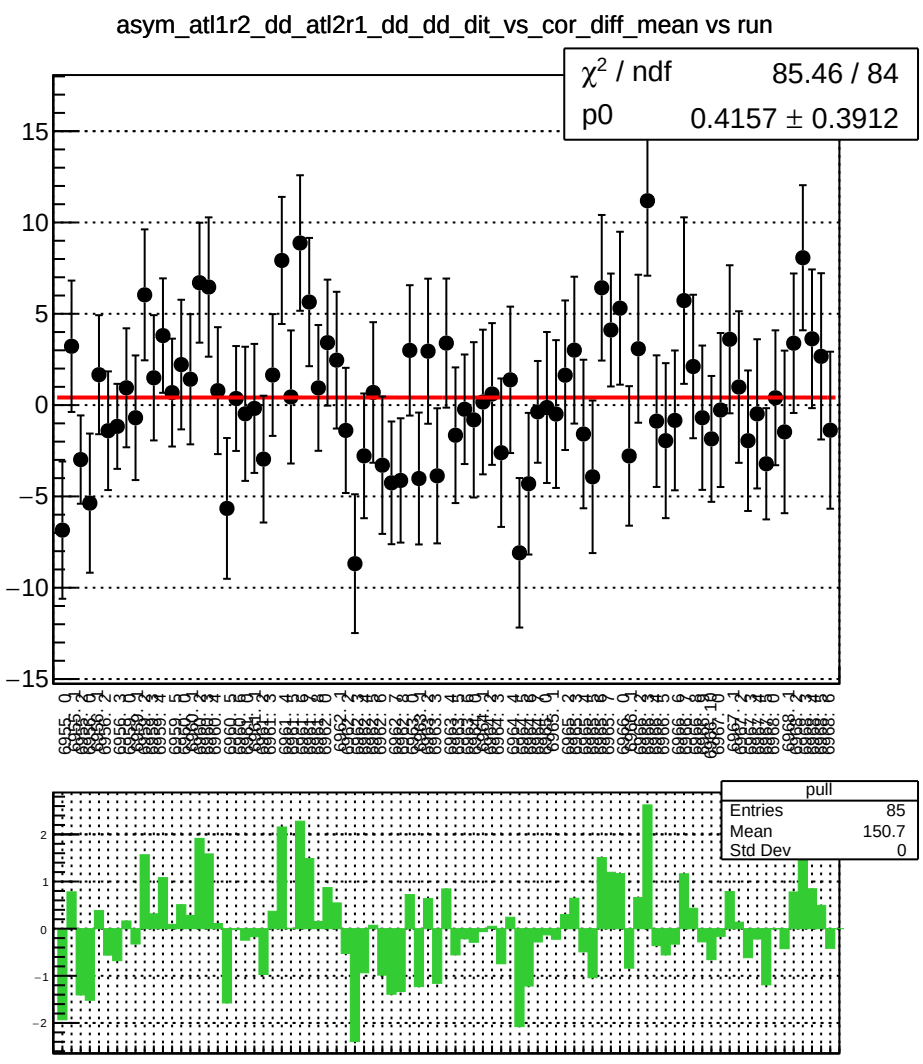

pull1D
Entries 85
Mean −0.009413
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

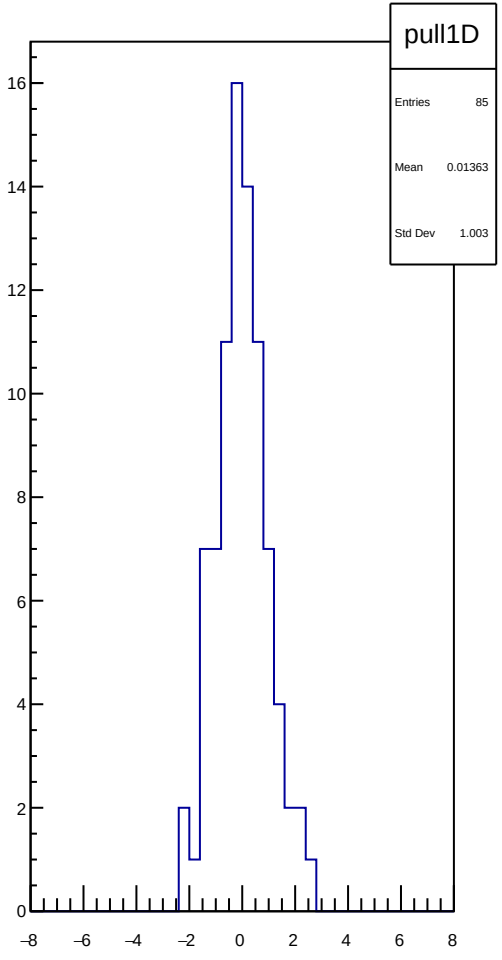

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.224e+04 / 84
p0 5502 ± 4.309
6500
6000
5500
5000
4500

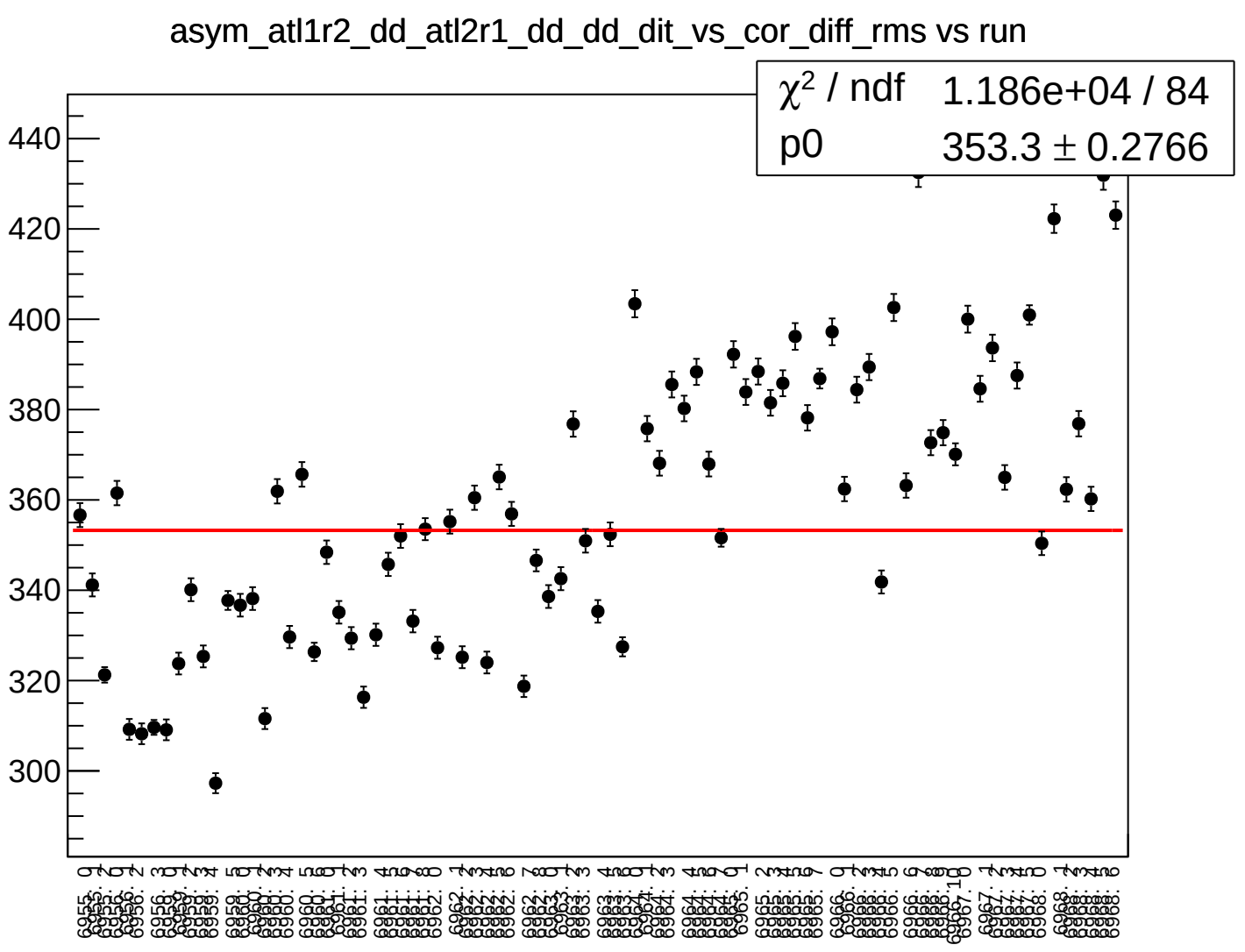

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.99 / 84
p0 −2.313e−13 ± 2.899e−13
pull
Entries 85
Mean 71.15
Std Dev 5.891

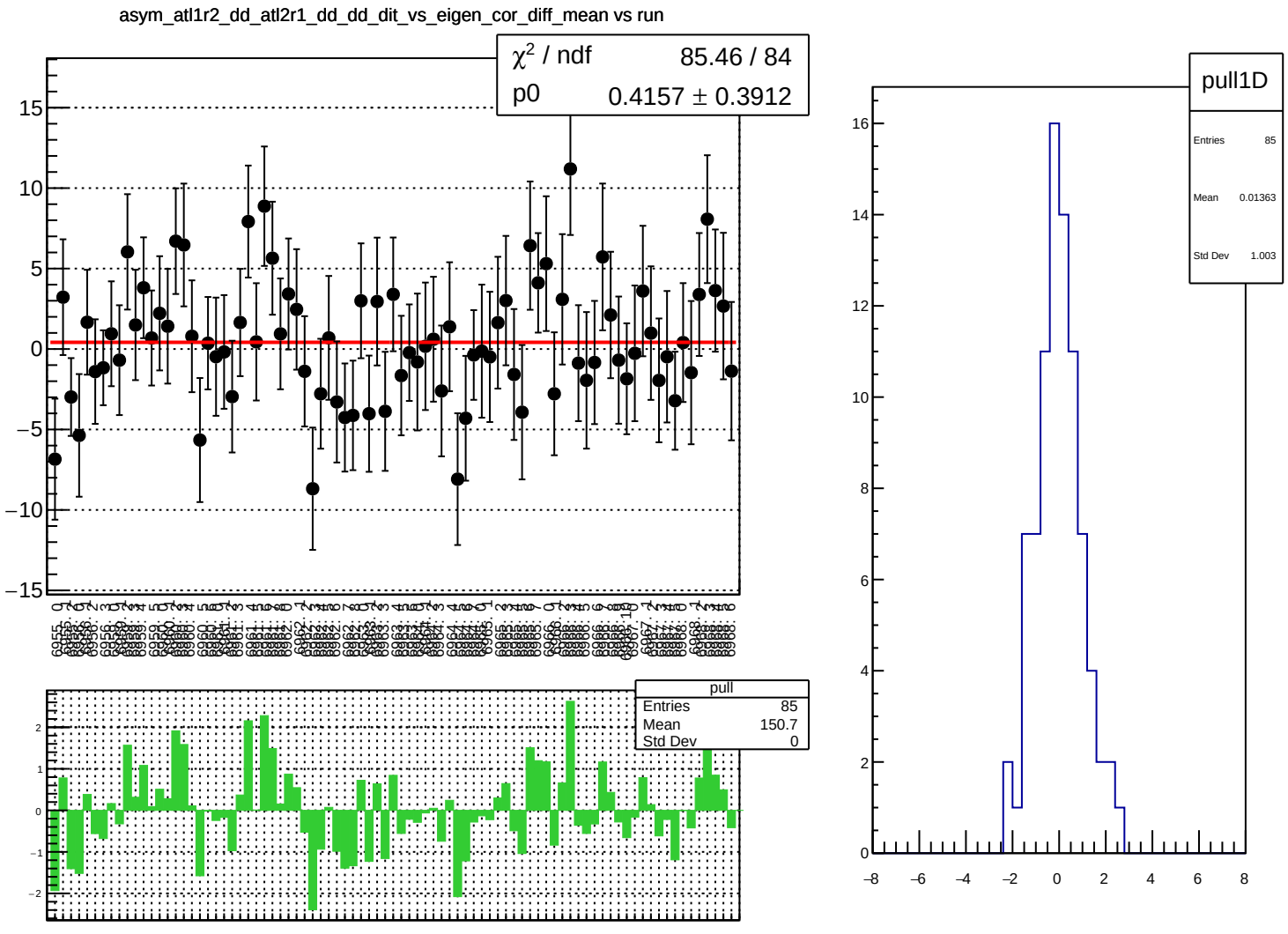

pull1D
Entries 85
Mean 0.08125
Std Dev 0.9787

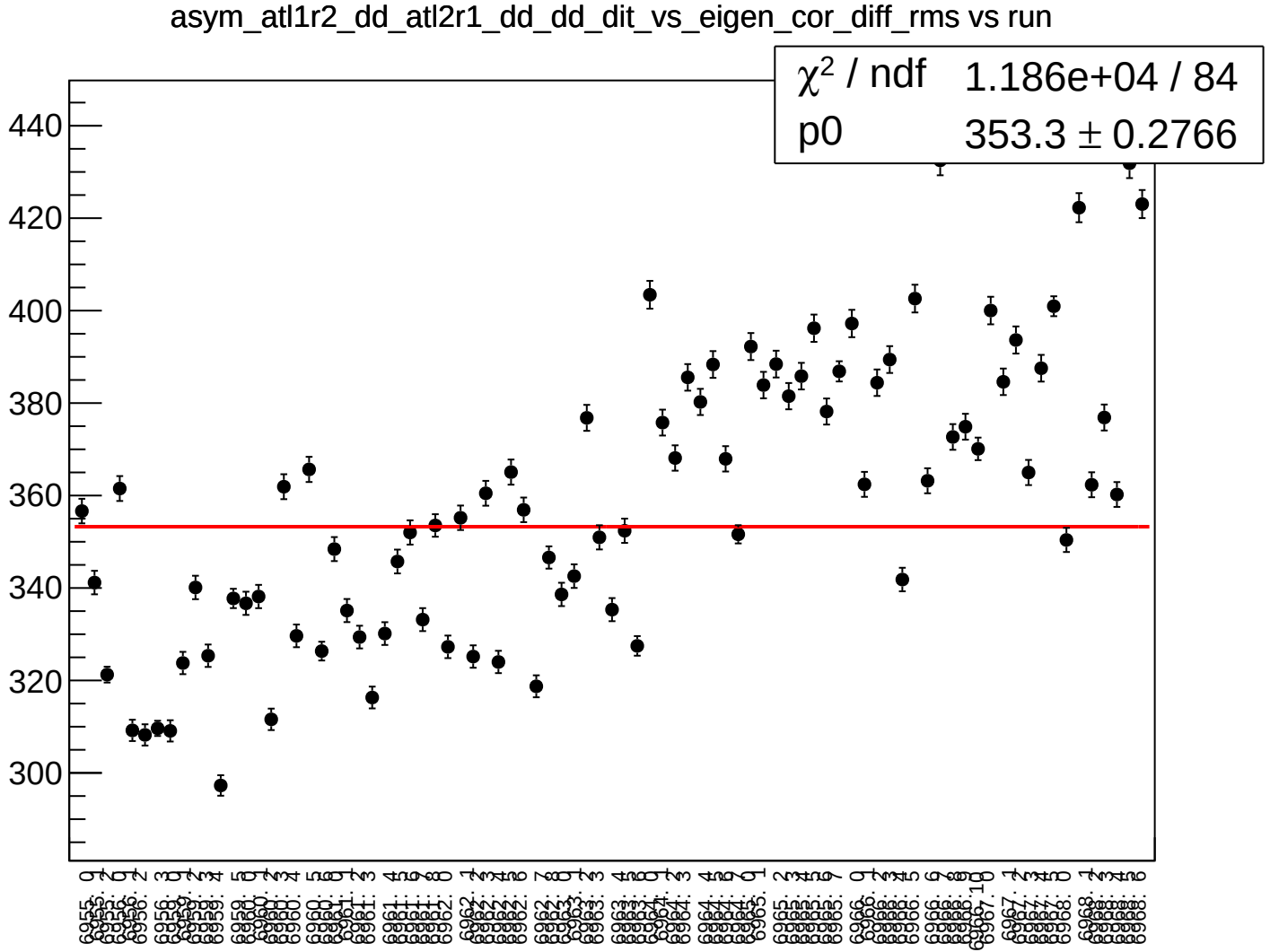

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.056e+06 / 84
p0 1.57e−10 ± 2.05e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

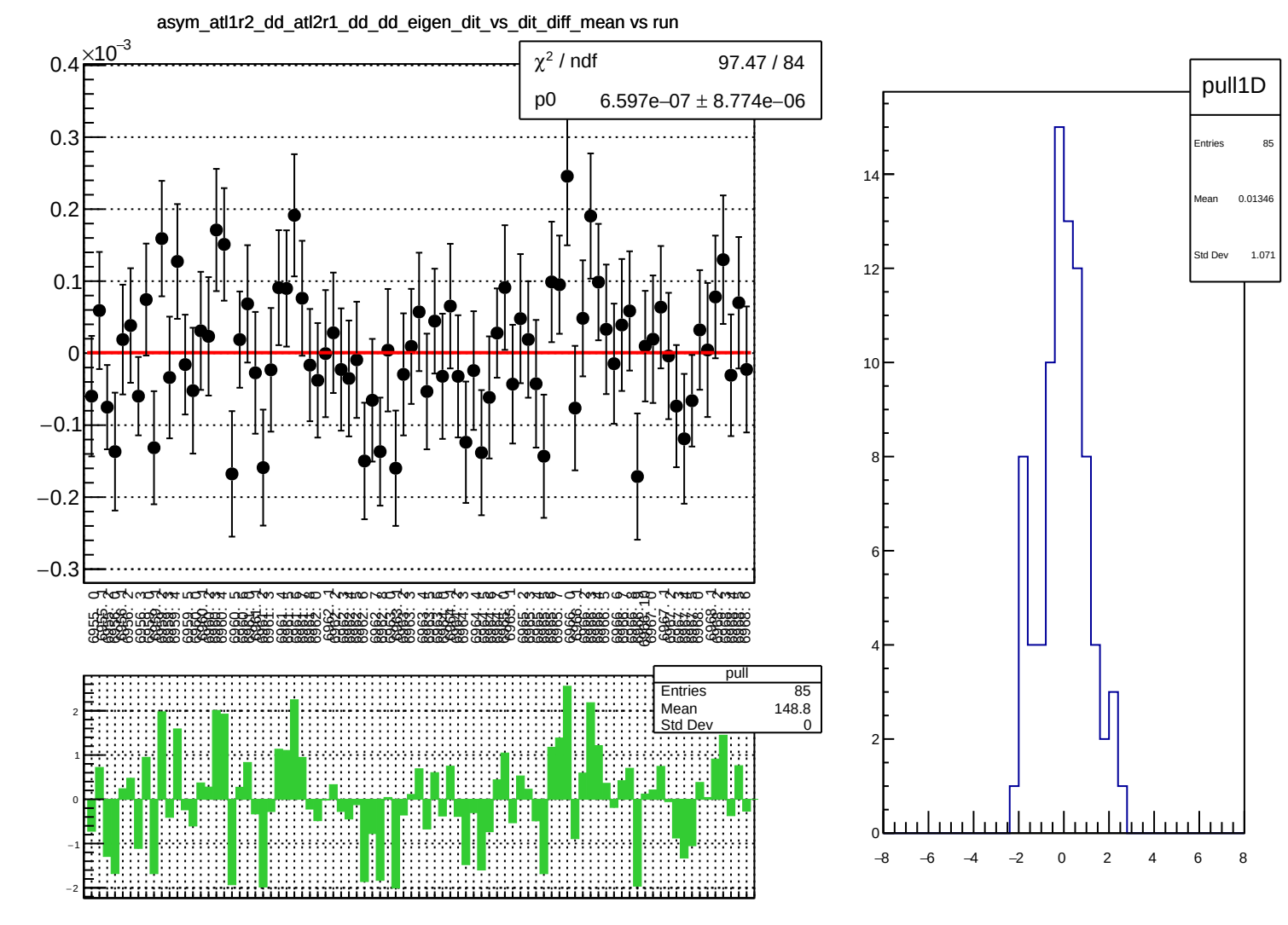

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.46 / 84
p0 0.4157 ± 0.3912
pull
Entries 85
Mean 150.7
Std Dev 0

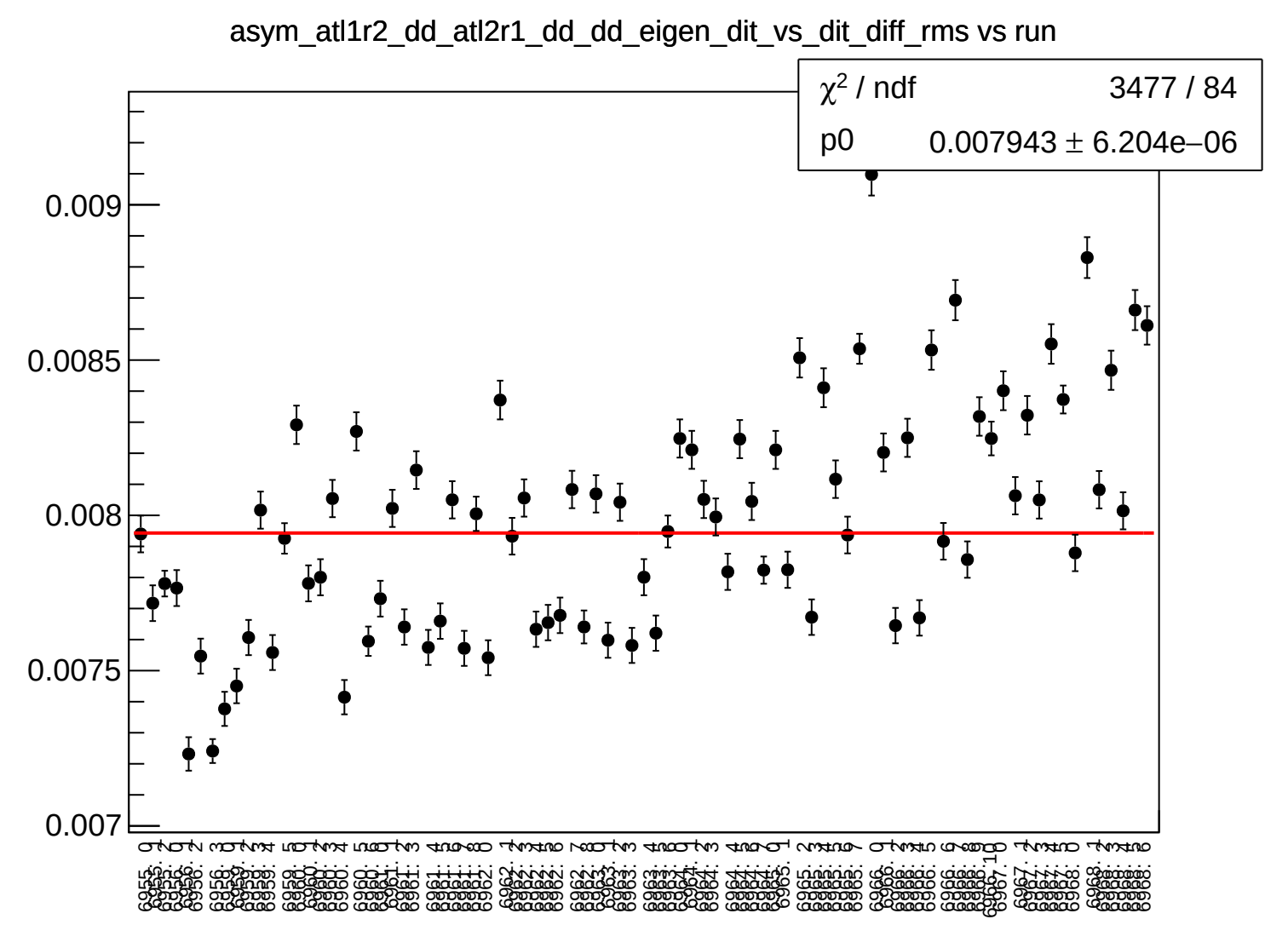

pull1D
Entries 85
Mean 0.01363
Std Dev 1.003

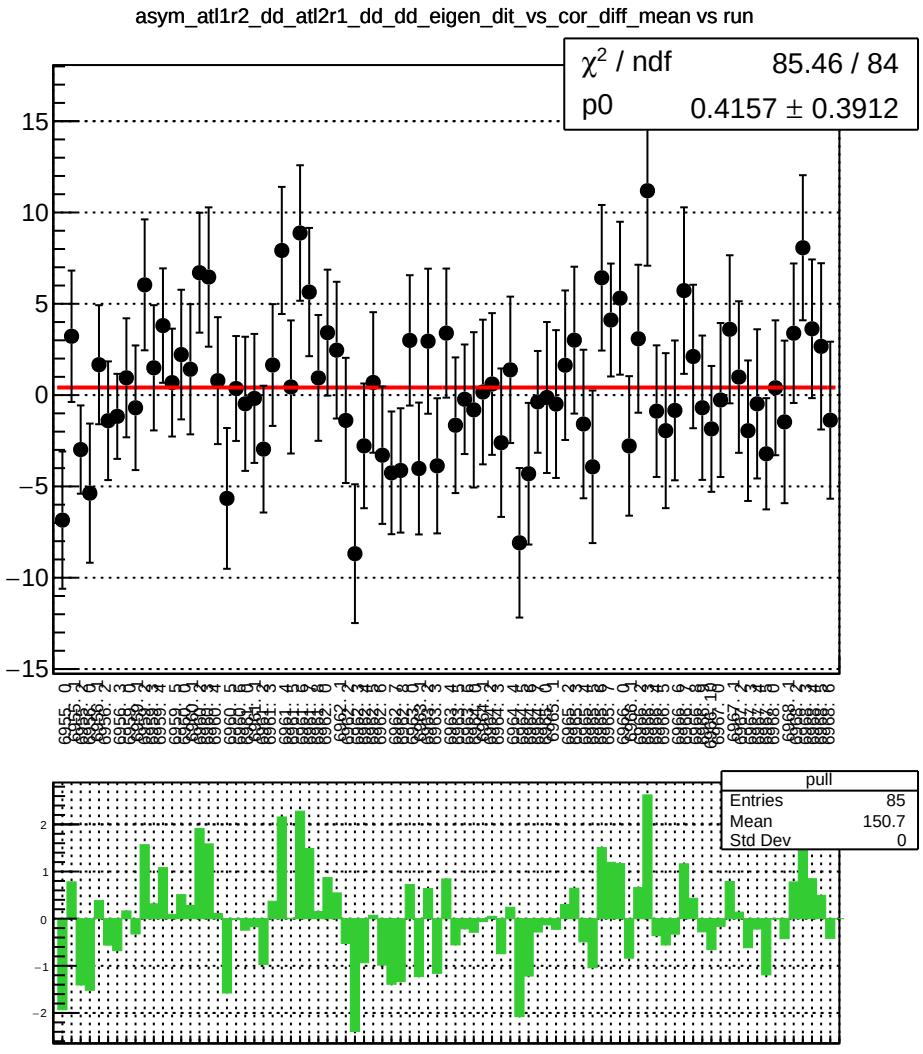

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 84
p0 353.3 ± 0.2766
440
420
400
380
360
340
320
300

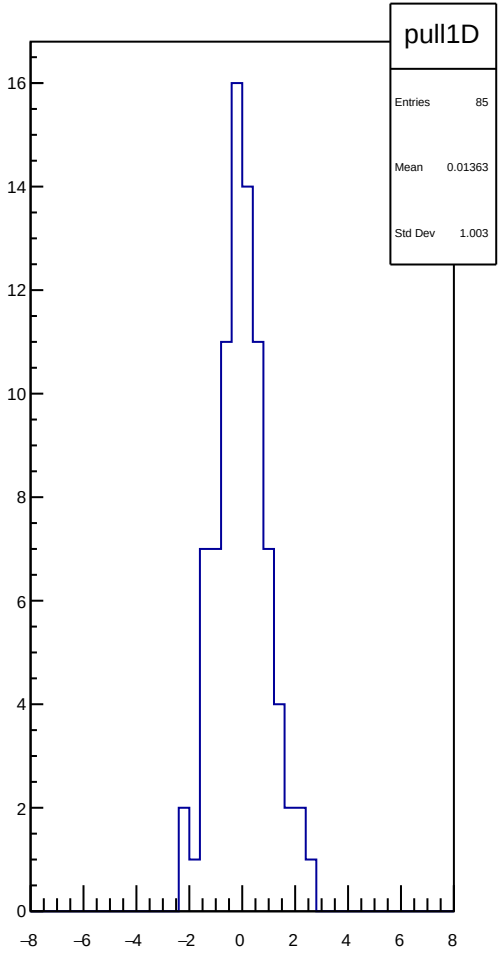

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.46 / 84
p0 0.4157 ± 0.3912
pull
Entries 85
Mean 150.7
Std Dev 0
pull1D
Entries 85
Mean 0.01363
Std Dev 1.003

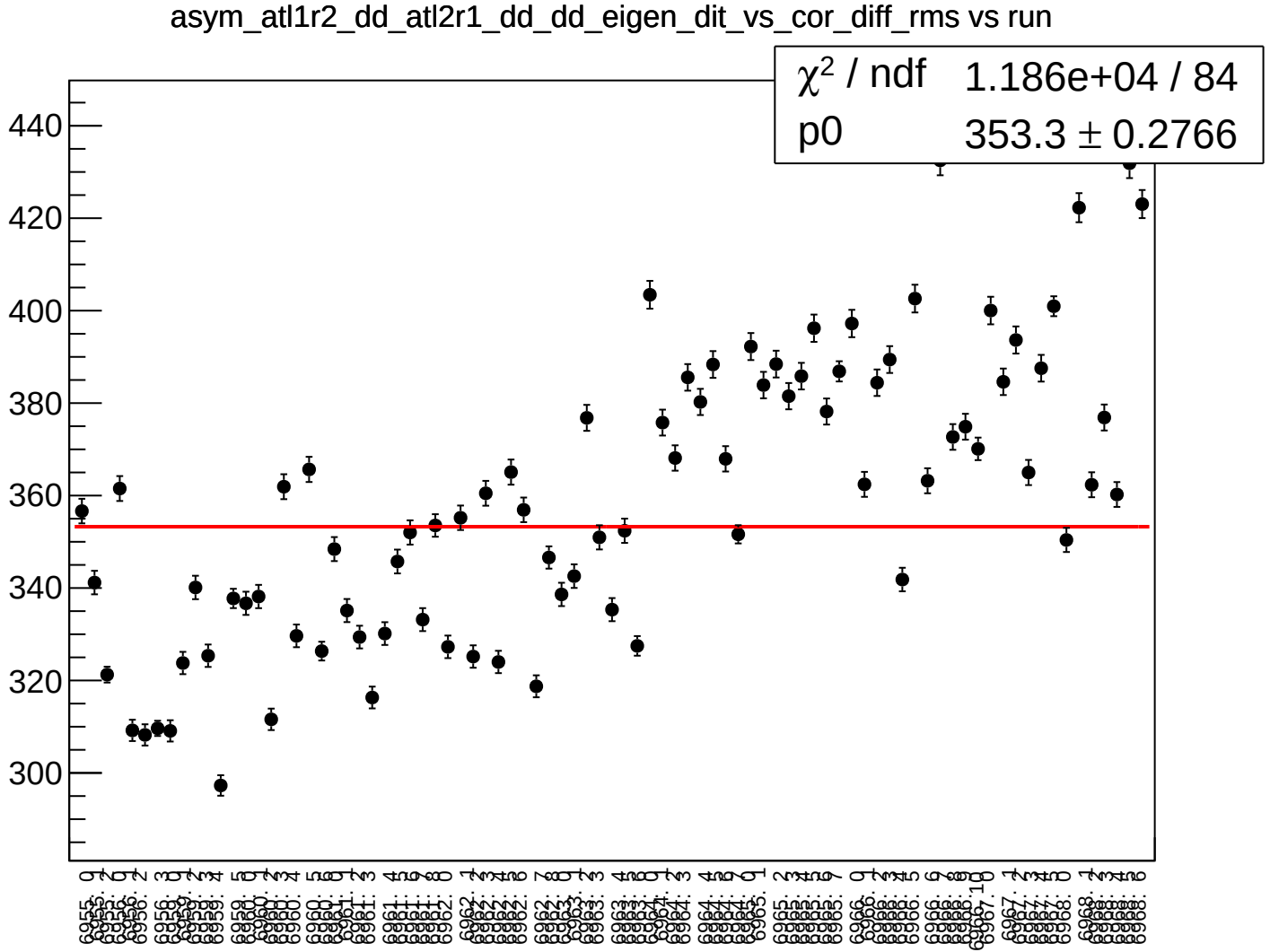

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 84
p0 353.3 ± 0.2766
440
420
400
380
360
340
320
300

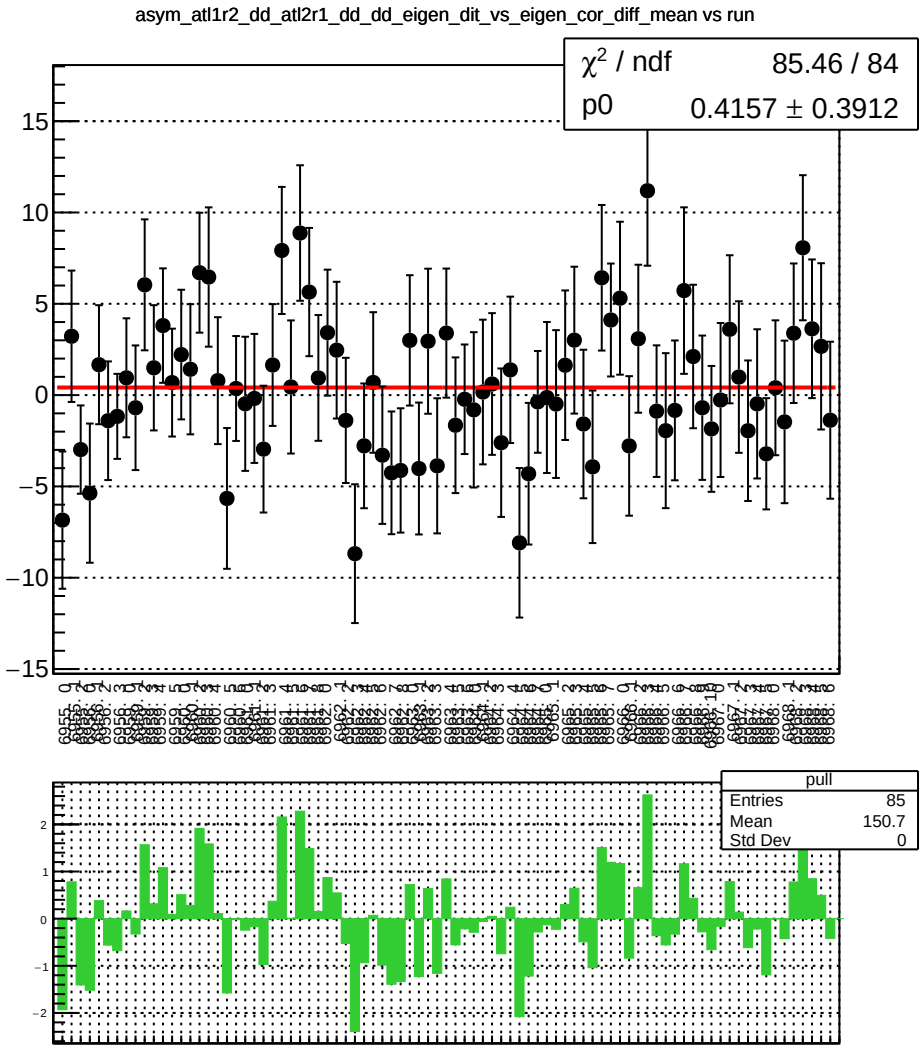

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.47 / 84
p0 6.597e−07 ± 8.774e−06
pull
Entries 85
Mean 148.8
Std Dev 0
pull1D
Entries 85
Mean 0.01346
Std Dev 1.071

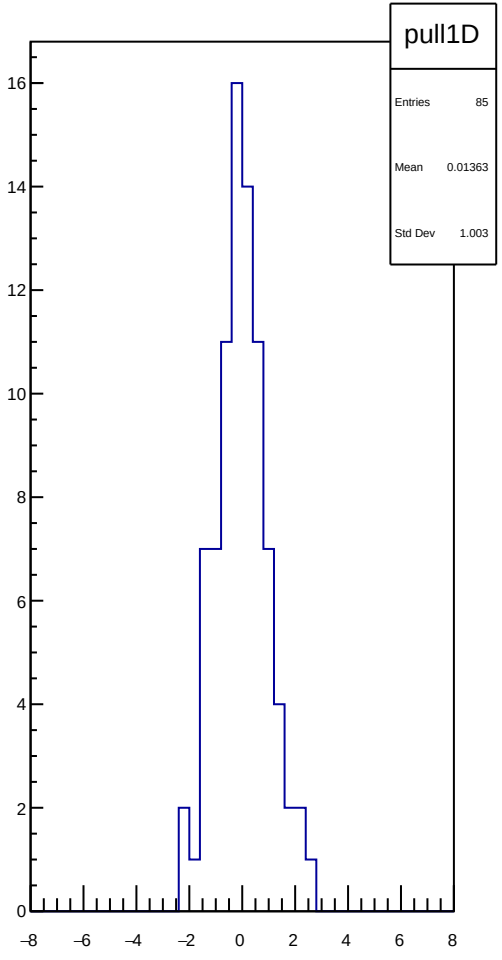

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3477 / 84
p0 0.007943 ± 6.204e−06
0.009
0.0085
0.008
0.0075
0.007

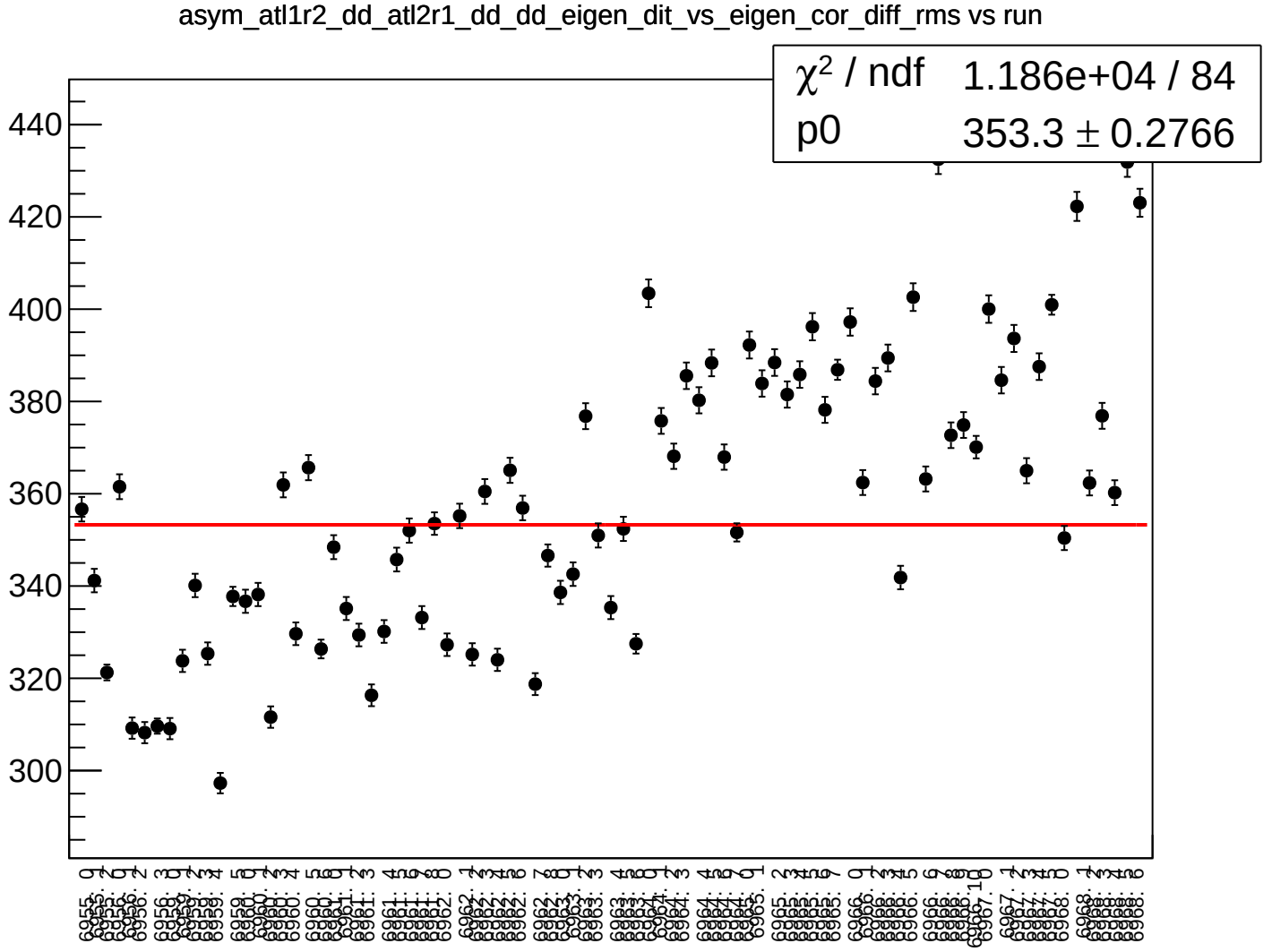

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.46 / 84
p0 0.4157 ± 0.3912
pull
Entries 85
Mean 150.7
Std Dev 0

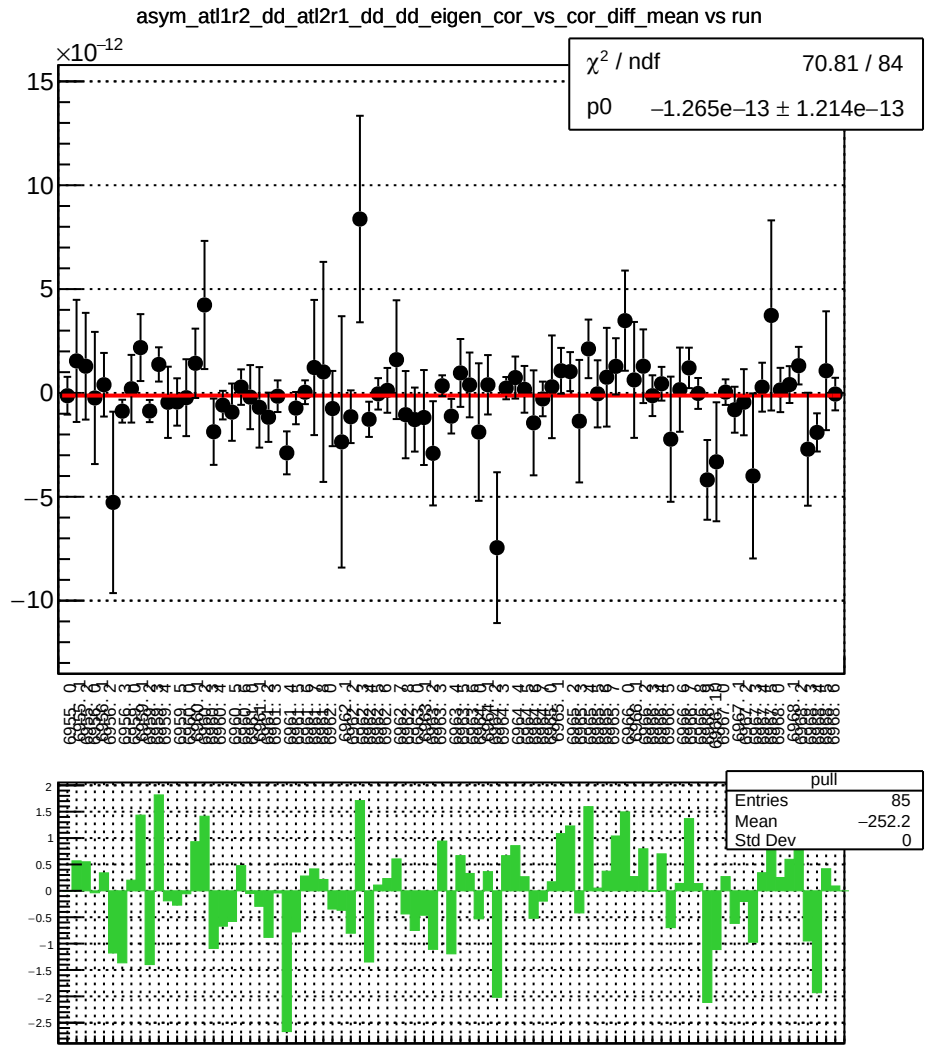

pull1D
Entries 85
Mean 0.01363
Std Dev 1.003

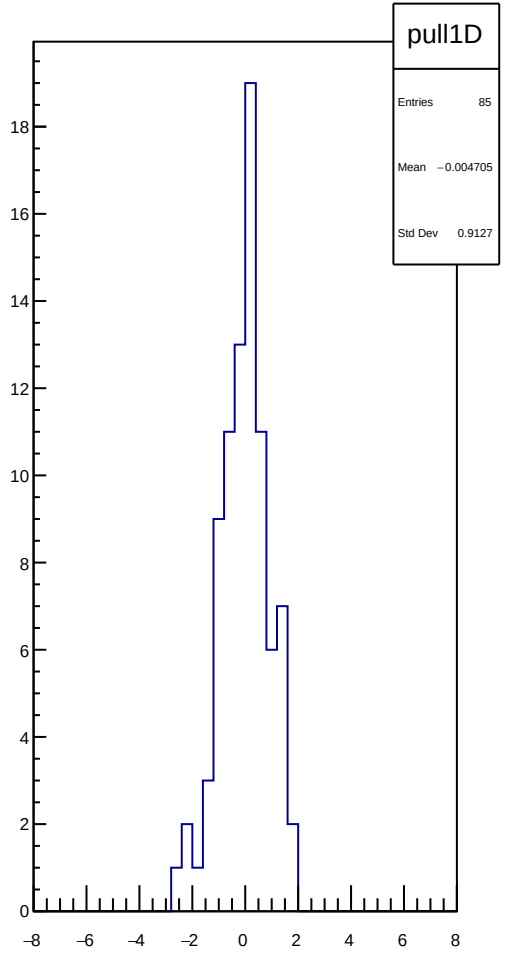

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 84
p0 353.3 ± 0.2766
440
420
400
380
360
340
320
300

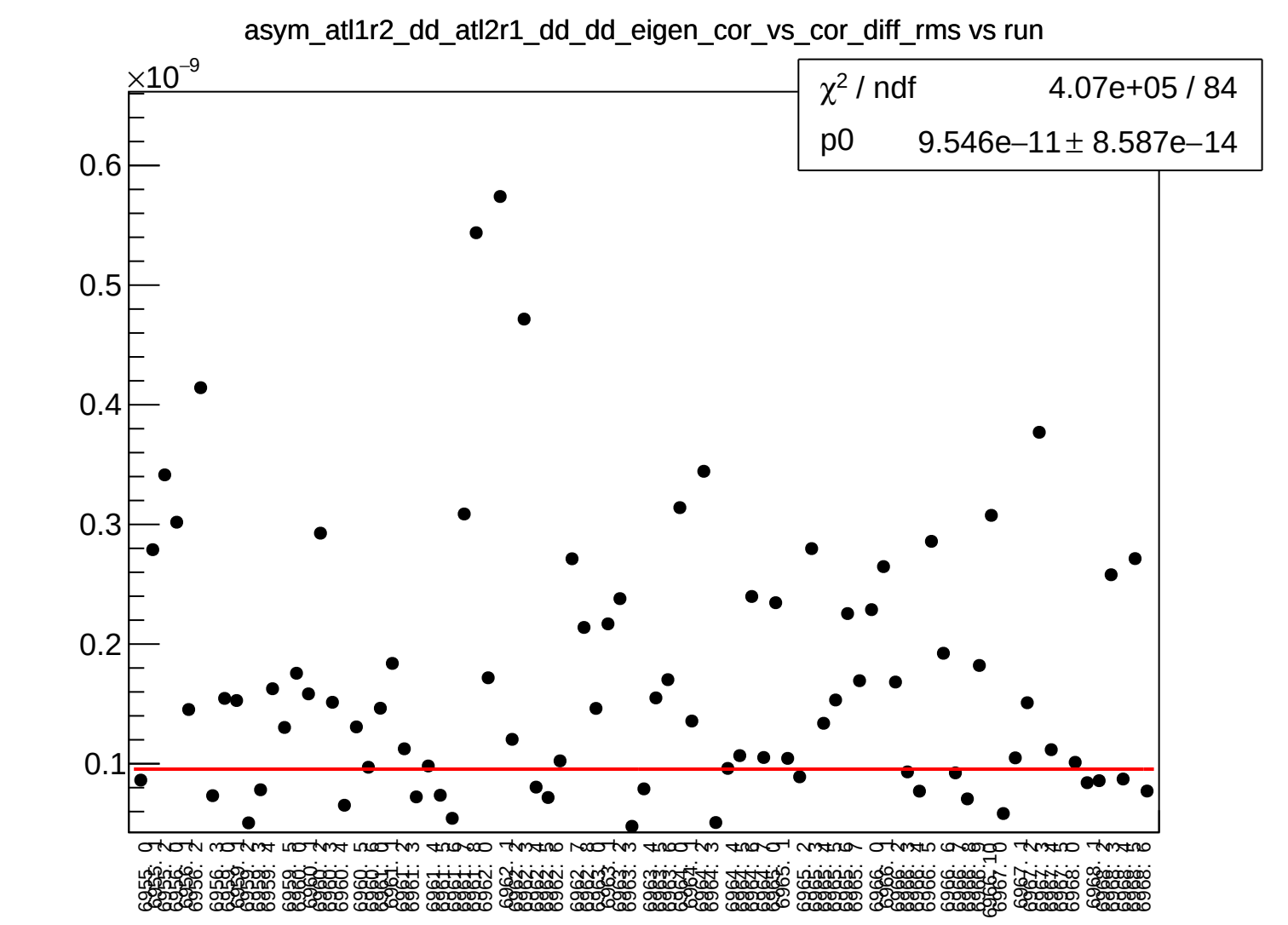

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.46 / 84
p0 0.4157 ± 0.3912
pull
Entries 85
Mean 150.7
Std Dev 0

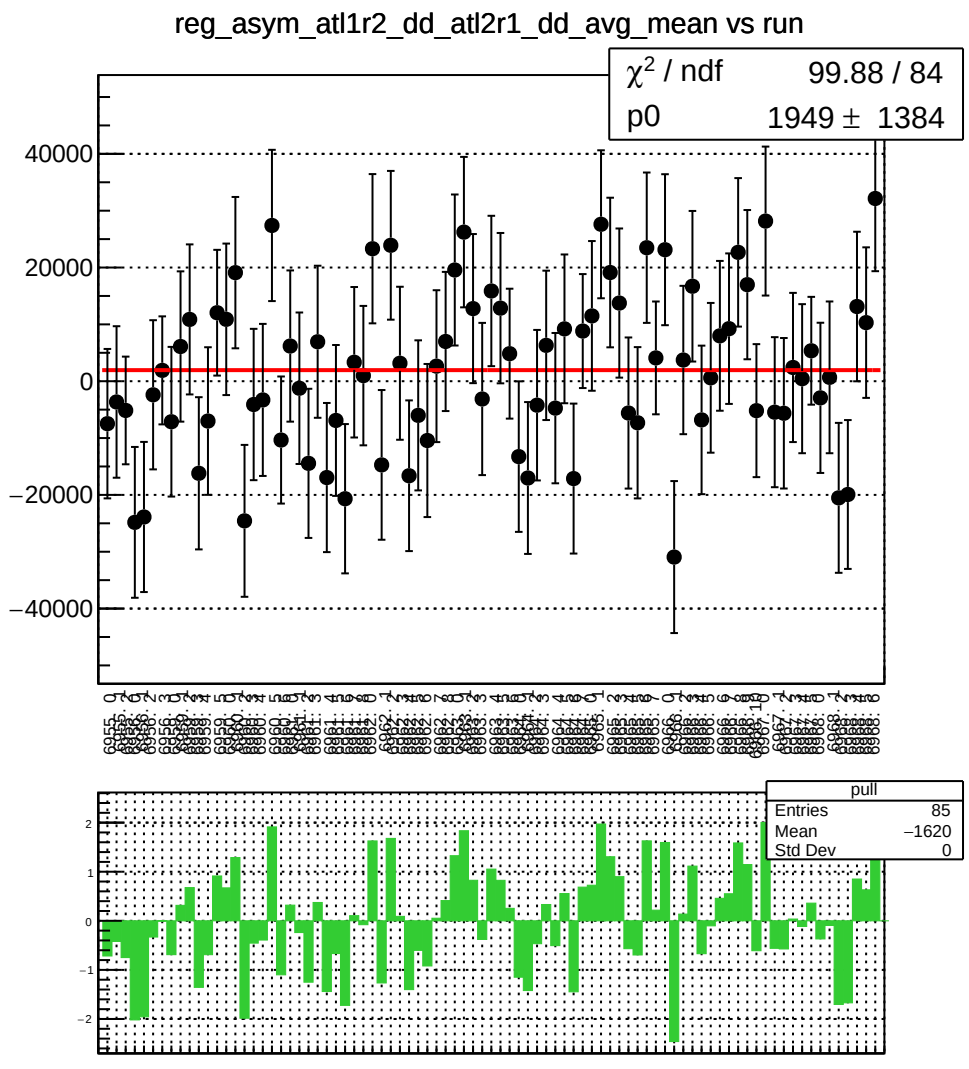

pull1D
Entries 85
Mean 0.01363
Std Dev 1.003

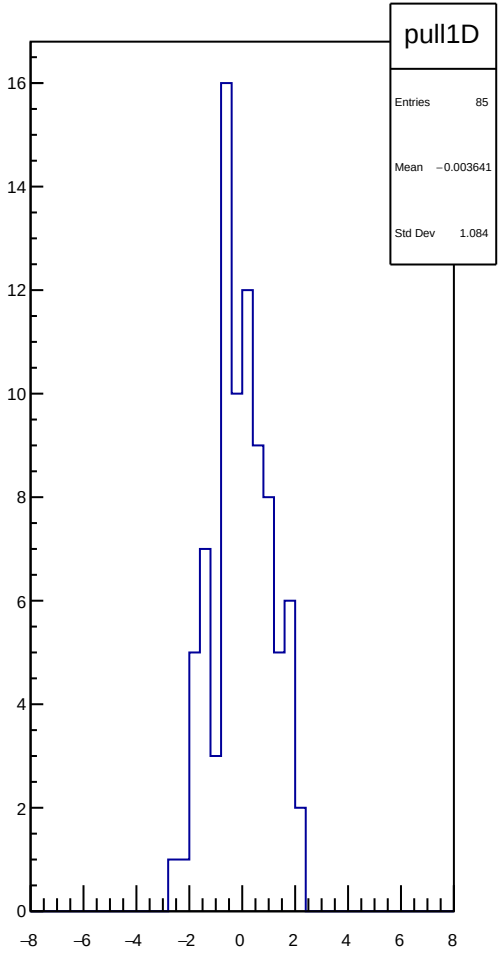

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 84
p0 353.3 ± 0.2766
440
420
400
380
360
340
320
300

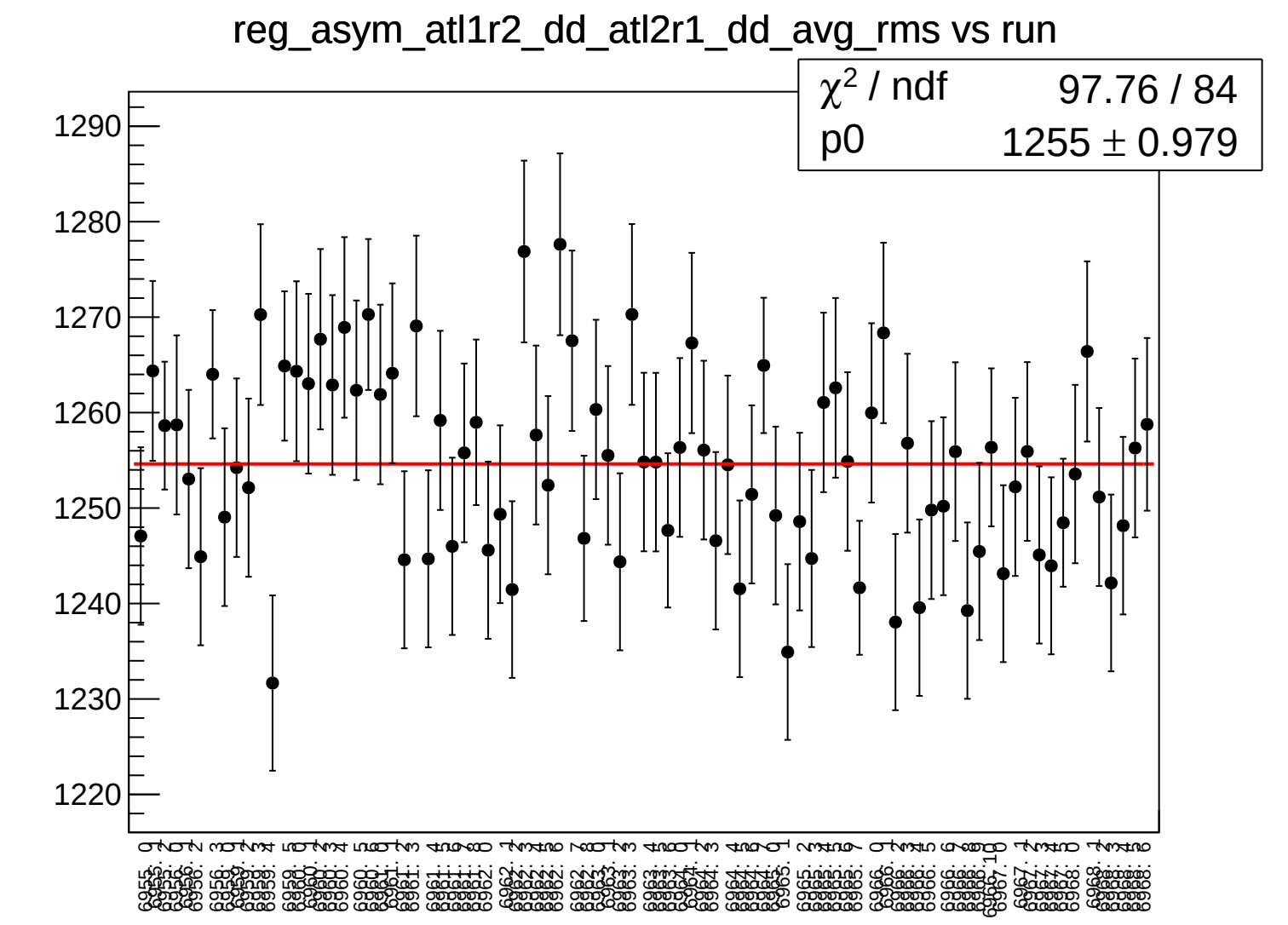

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.81 / 84
p0 −1.265e−13 ± 1.214e−13
pull
Entries 85
Mean −252.2
Std Dev 0

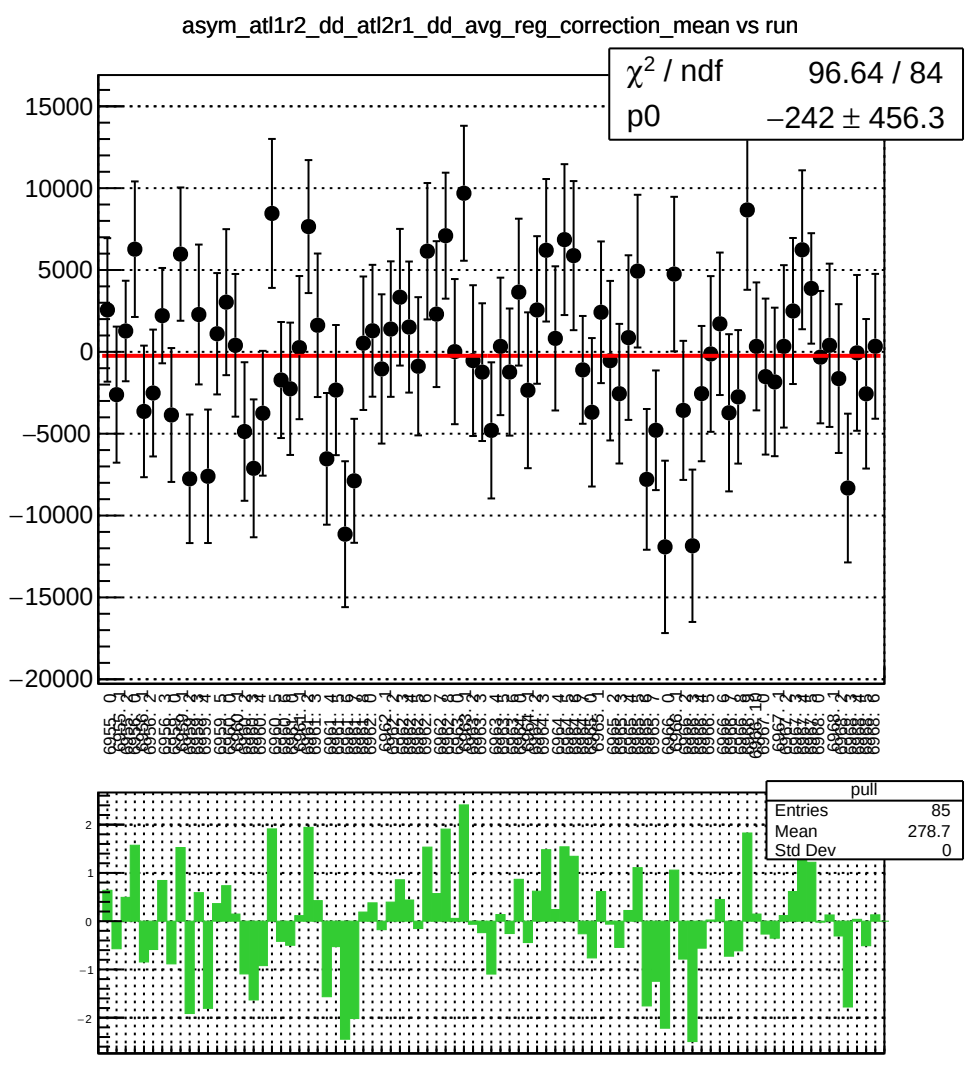

pull1D
Entries 85
Mean −0.004705
Std Dev 0.9127

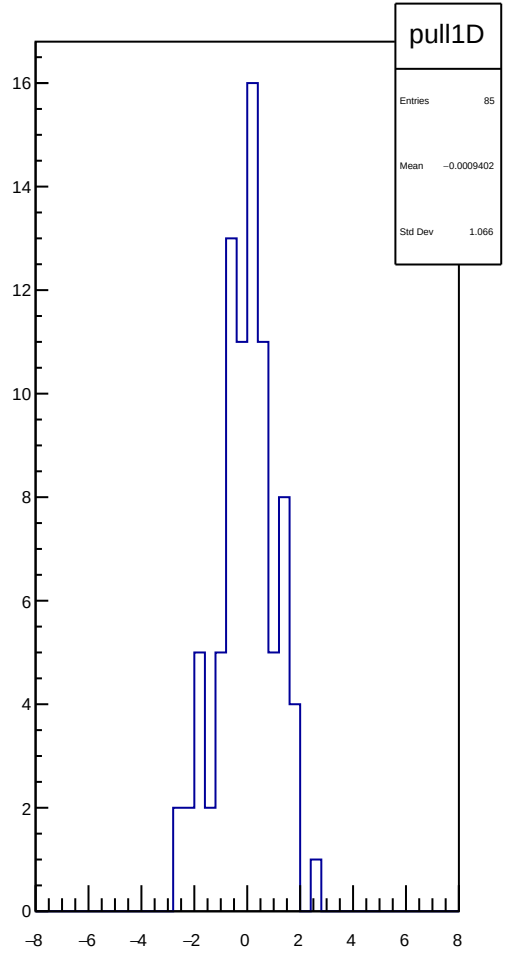

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.07e+05 / 84
p0 9.546e−11 ± 8.587e−14
0.6
0.5
0.4
0.3
0.2
0.1

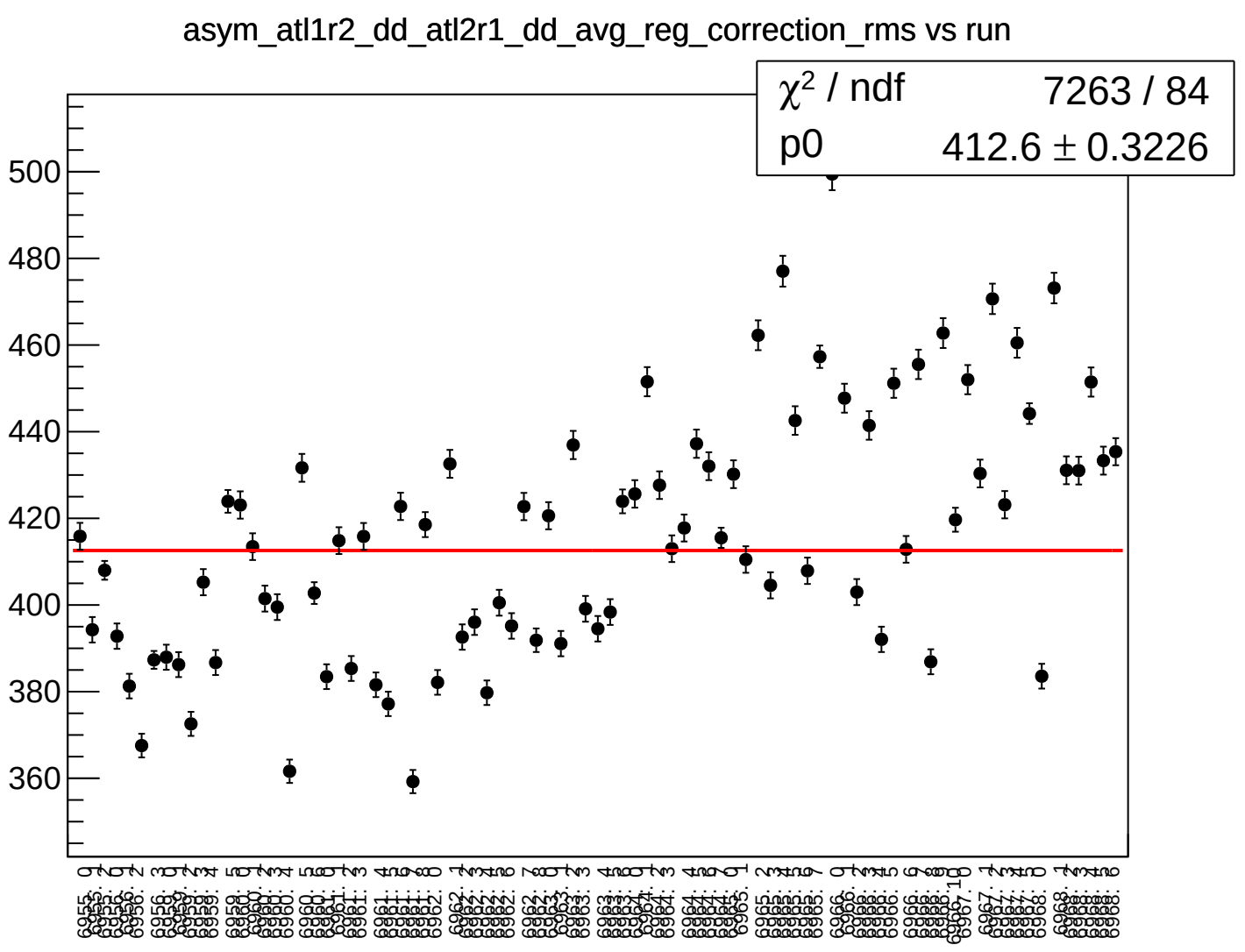

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.88 / 84
p0 1949 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1620
Std Dev 0
2
1
0
−1
−2

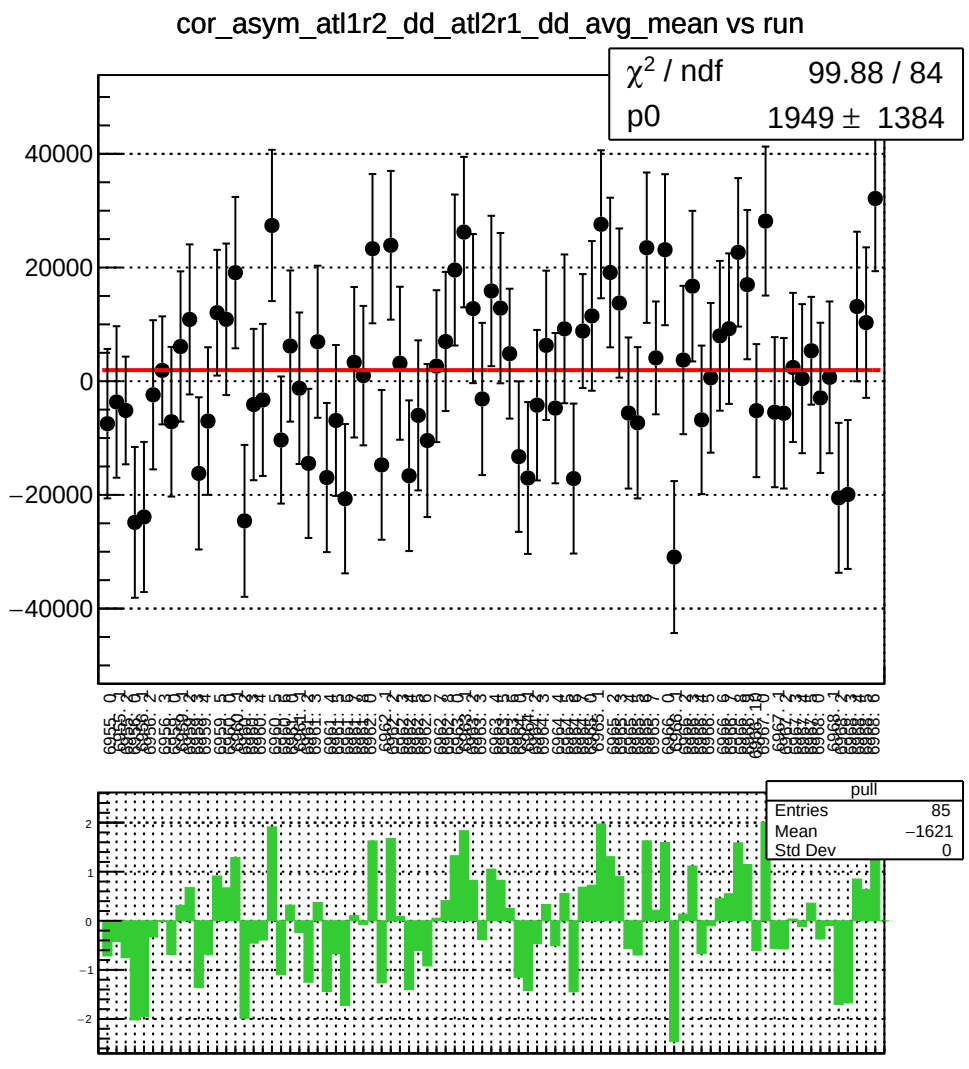

pull1D
Entries 85
Mean −0.003641
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

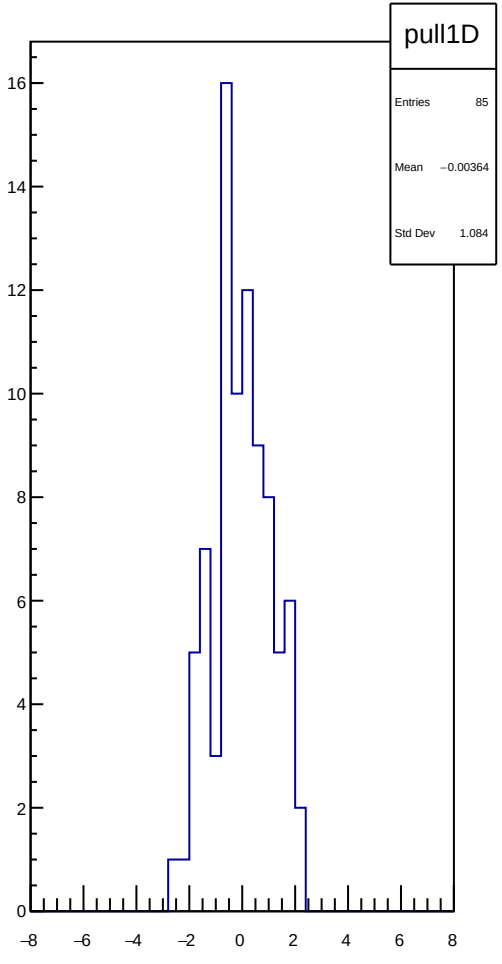

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
$\chi^2$ / ndf 97.76 / 84
p0 1255 ± 0.979
1290
1280
1270
1260
1250
1240
1230
1220

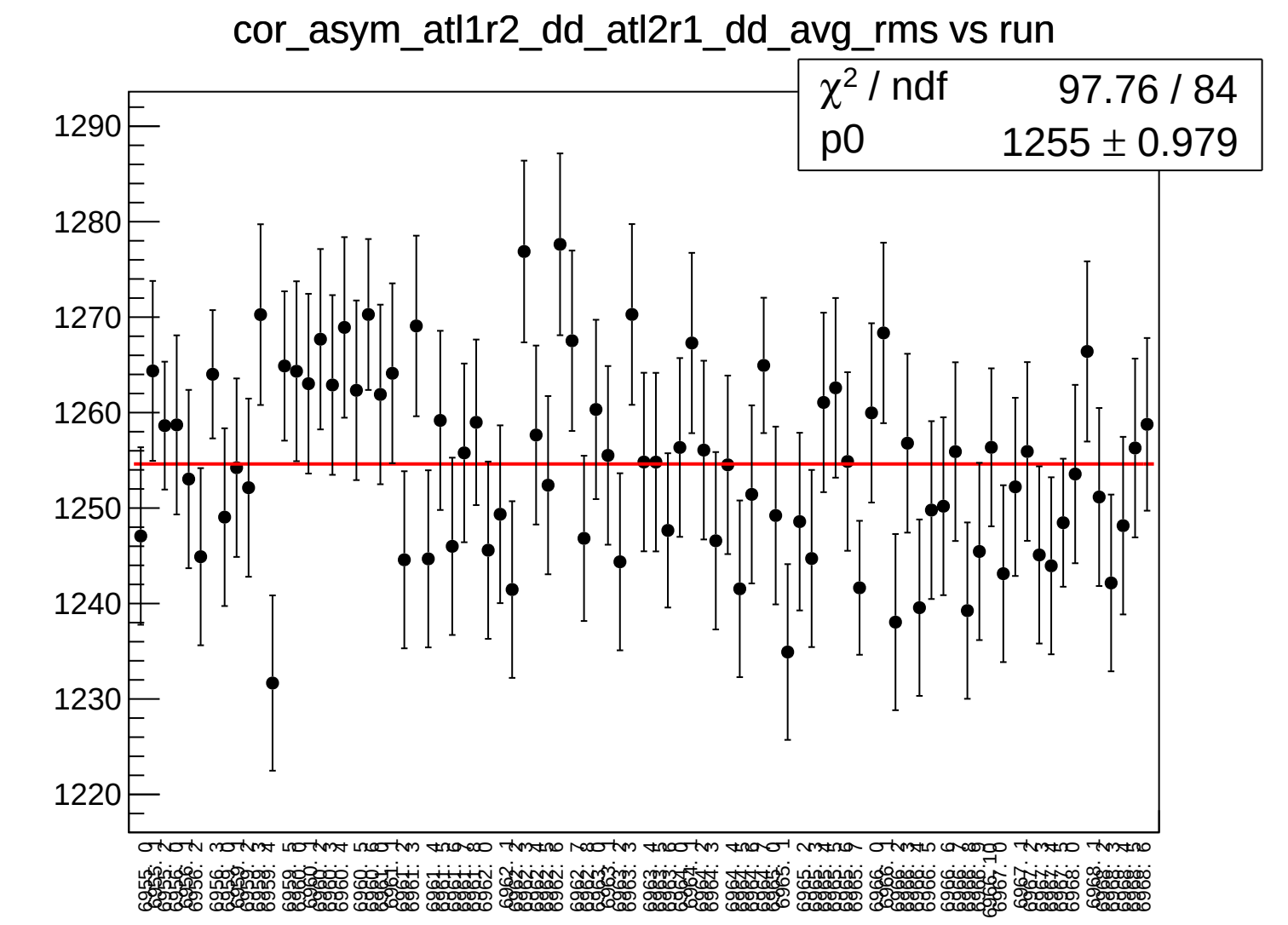

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 96.64 / 84
p0 −242 ± 456.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 278.7
Std Dev 0
2
1
0
−1
−2

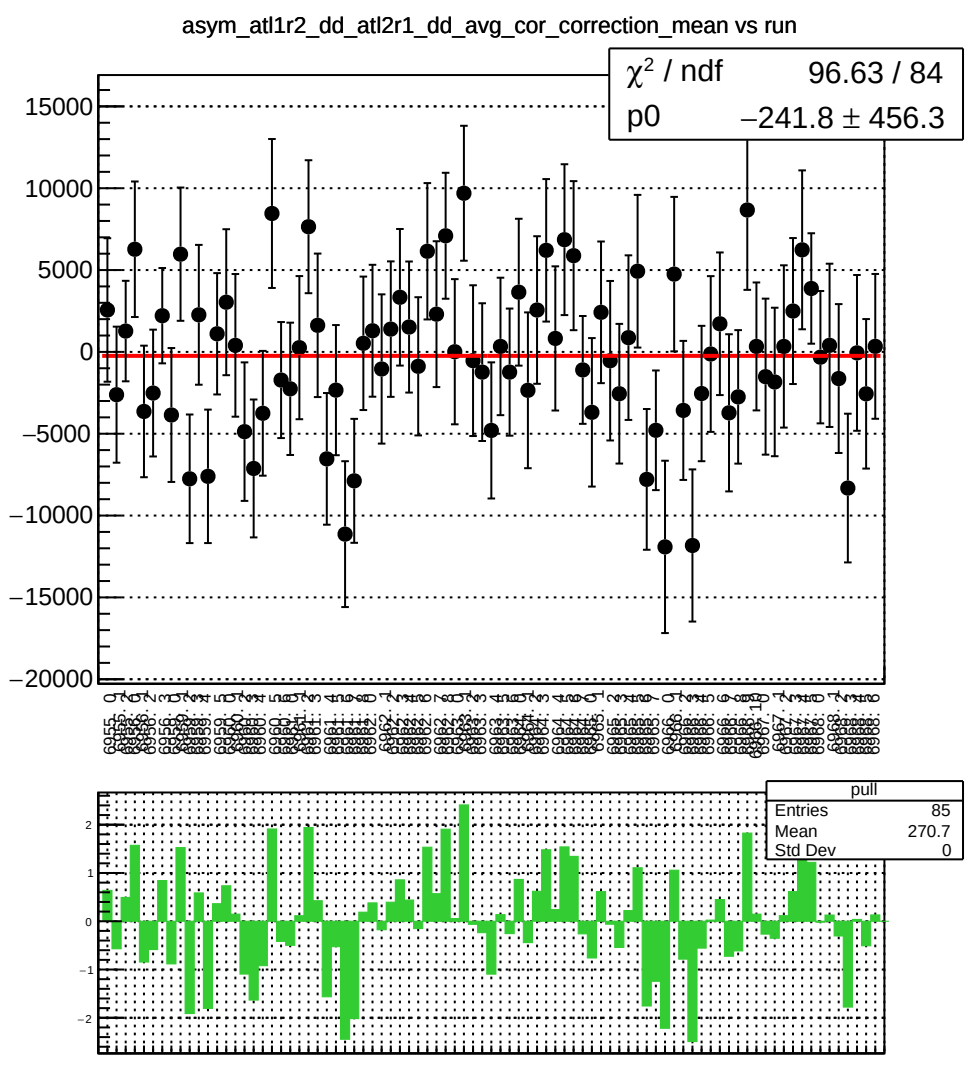

pull1D
Entries 85
Mean −0.0009402
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

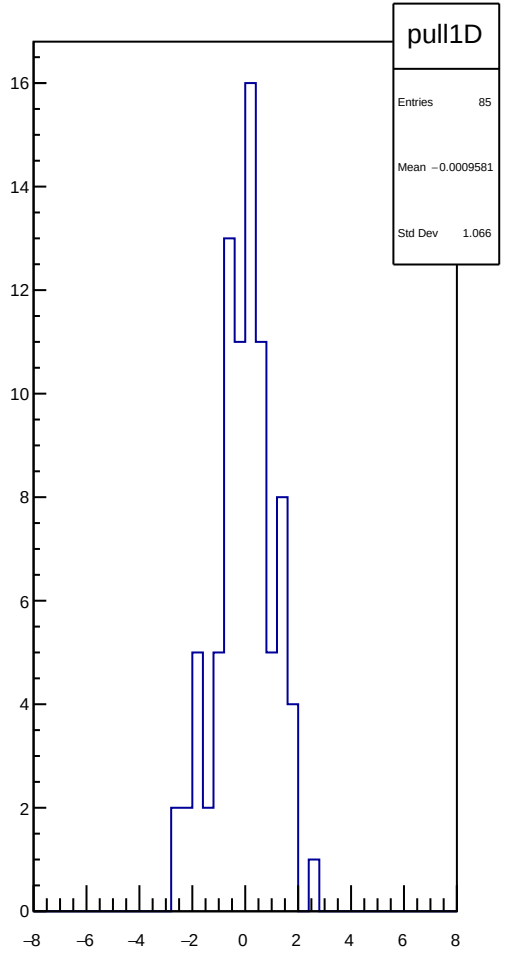

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 7263 / 84
p0 412.6 ± 0.3226
500
480
460
440
420
400
380
360

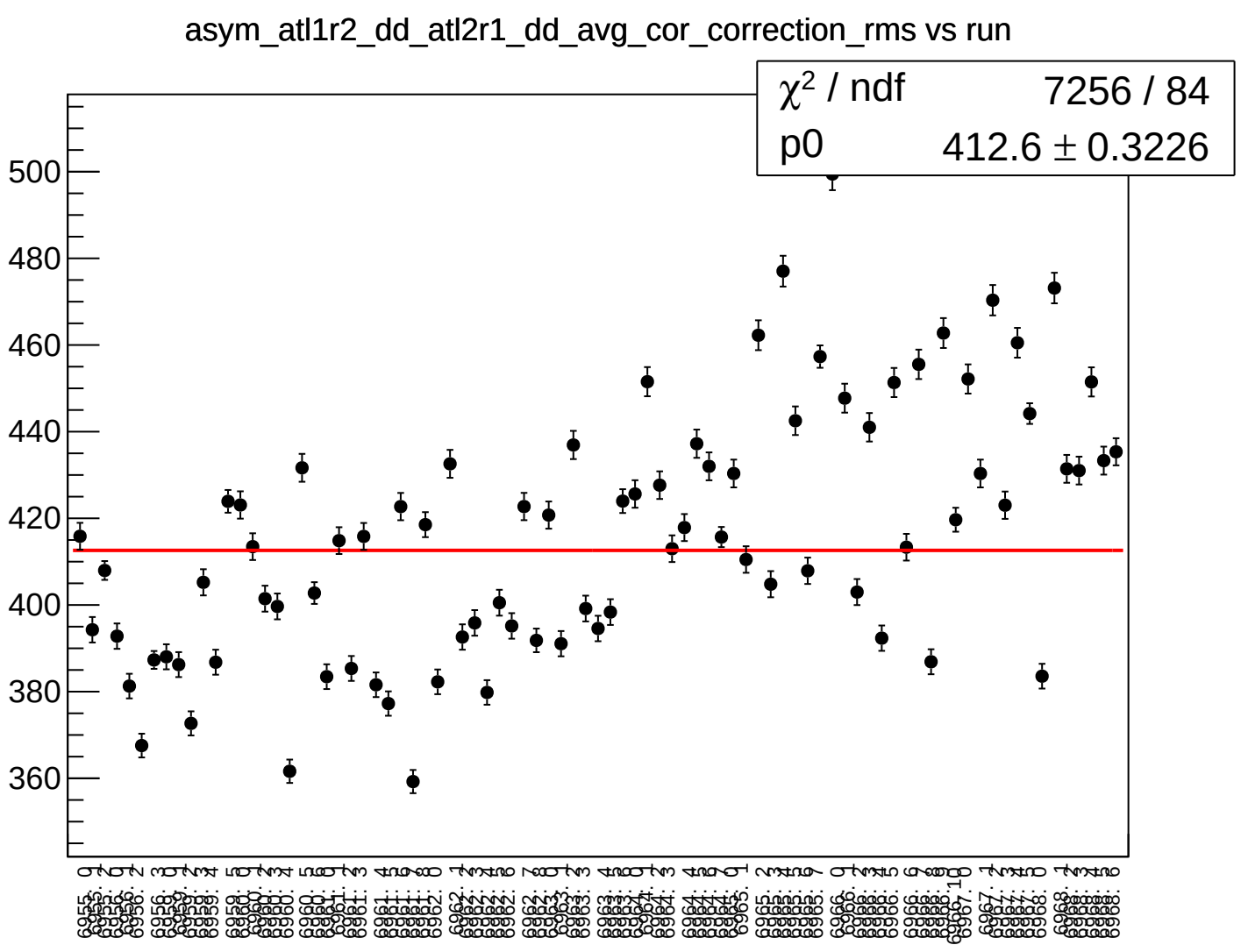

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.88 / 84
p0 1949 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1621
Std Dev 0
2
1
0
−1
−2

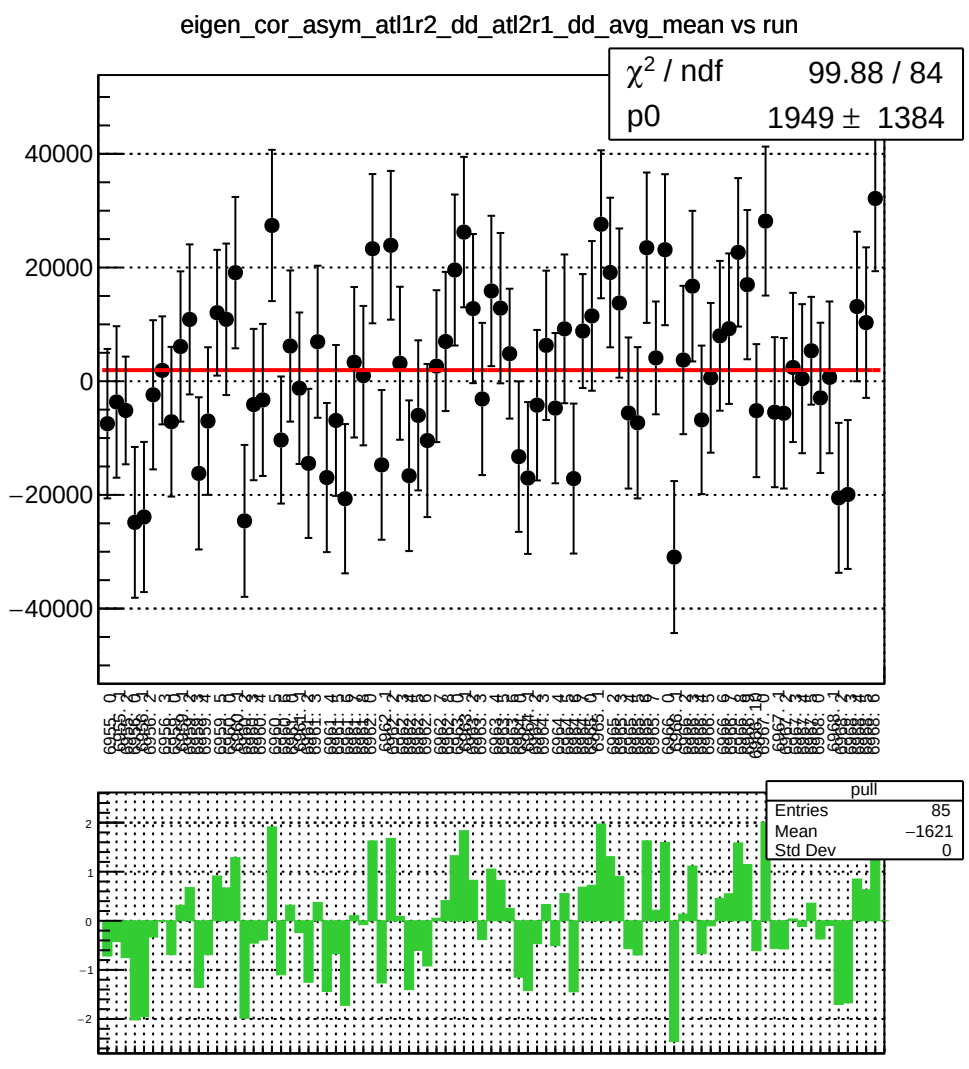

pull1D
Entries 85
Mean −0.00364
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

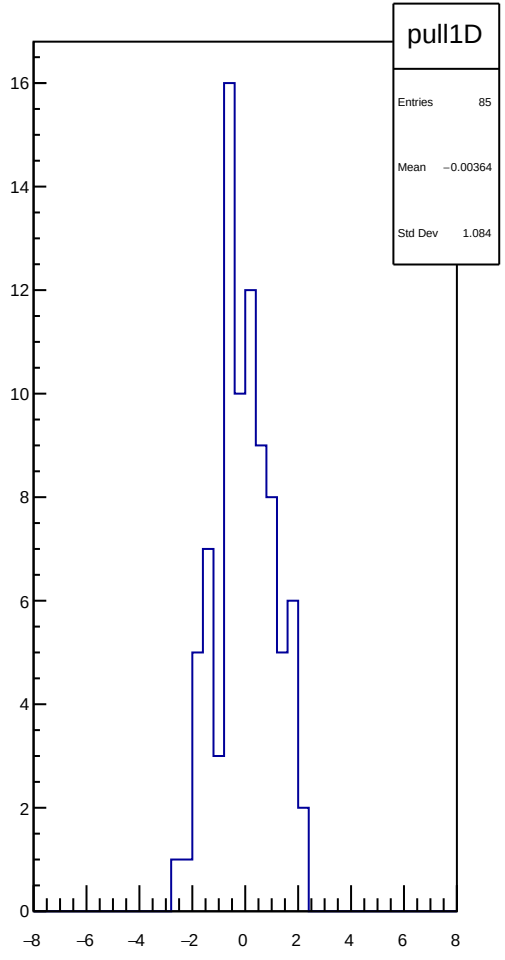

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 97.76 / 84
p0 1255 ± 0.979
1290
1280
1270
1260
1250
1240
1230
1220

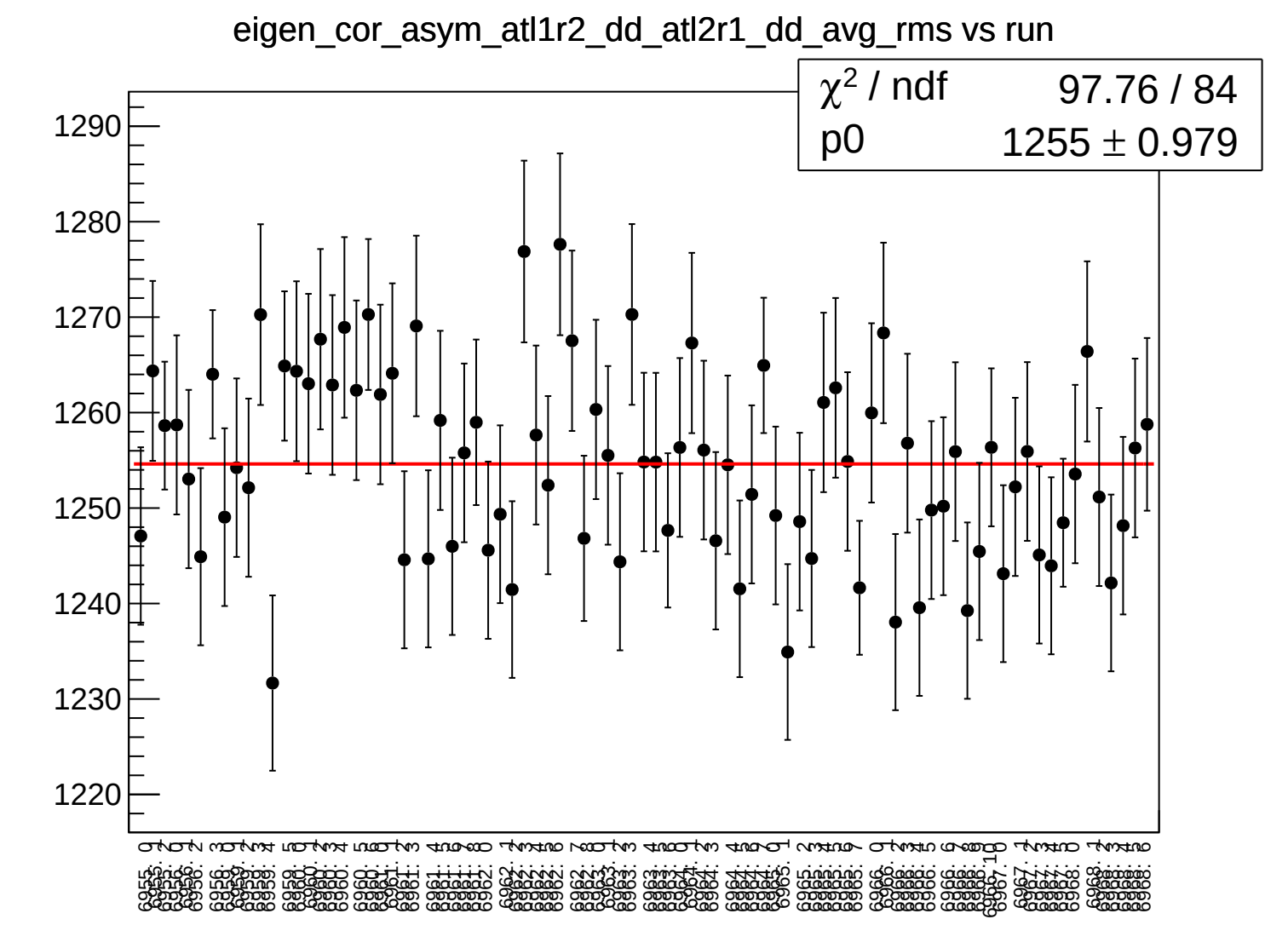

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 96.63 / 84
p0 −241.8 ± 456.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 270.7
Std Dev 0
2
1
0
−1
−2

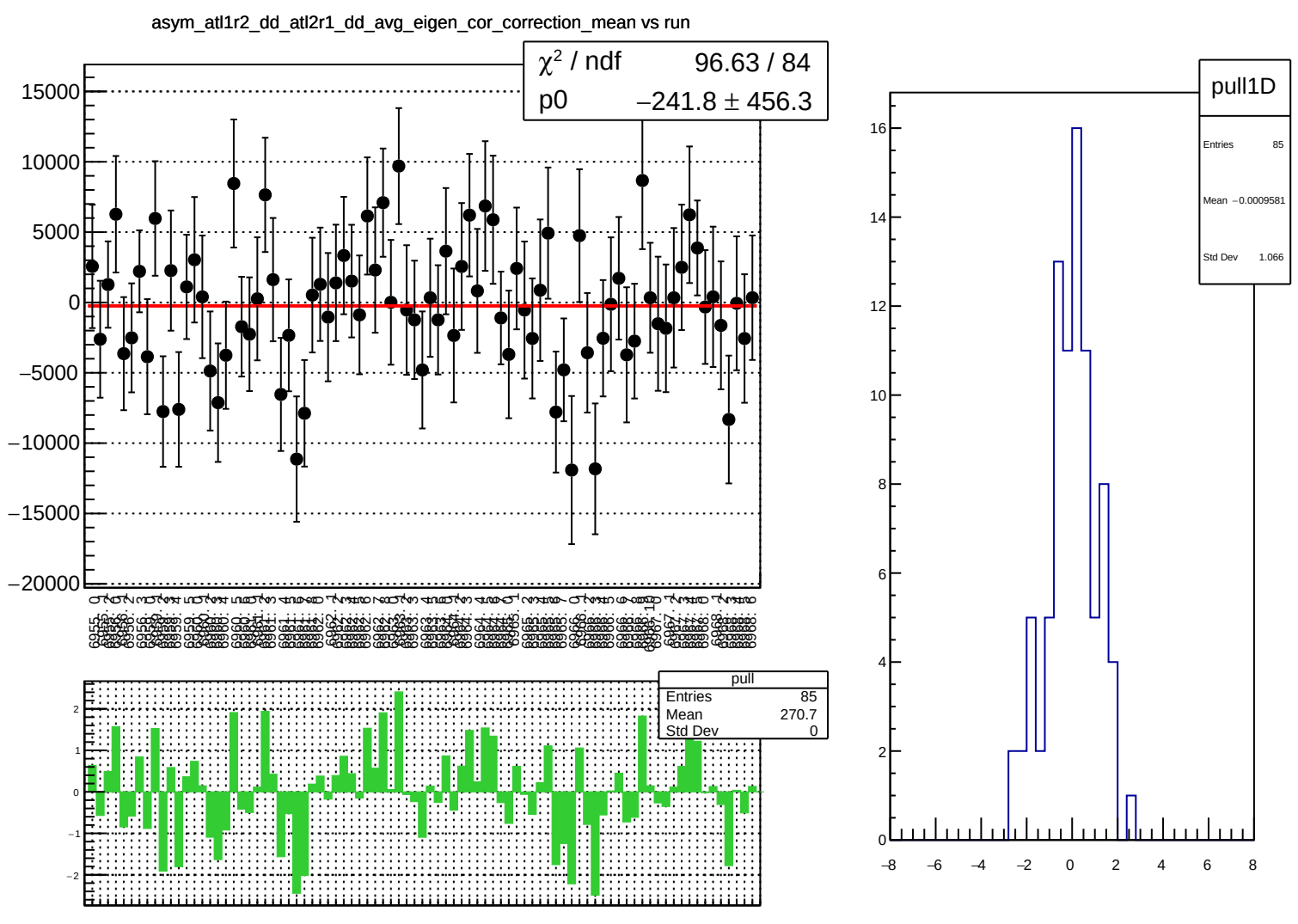

pull1D
Entries 85
Mean −0.0009581
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

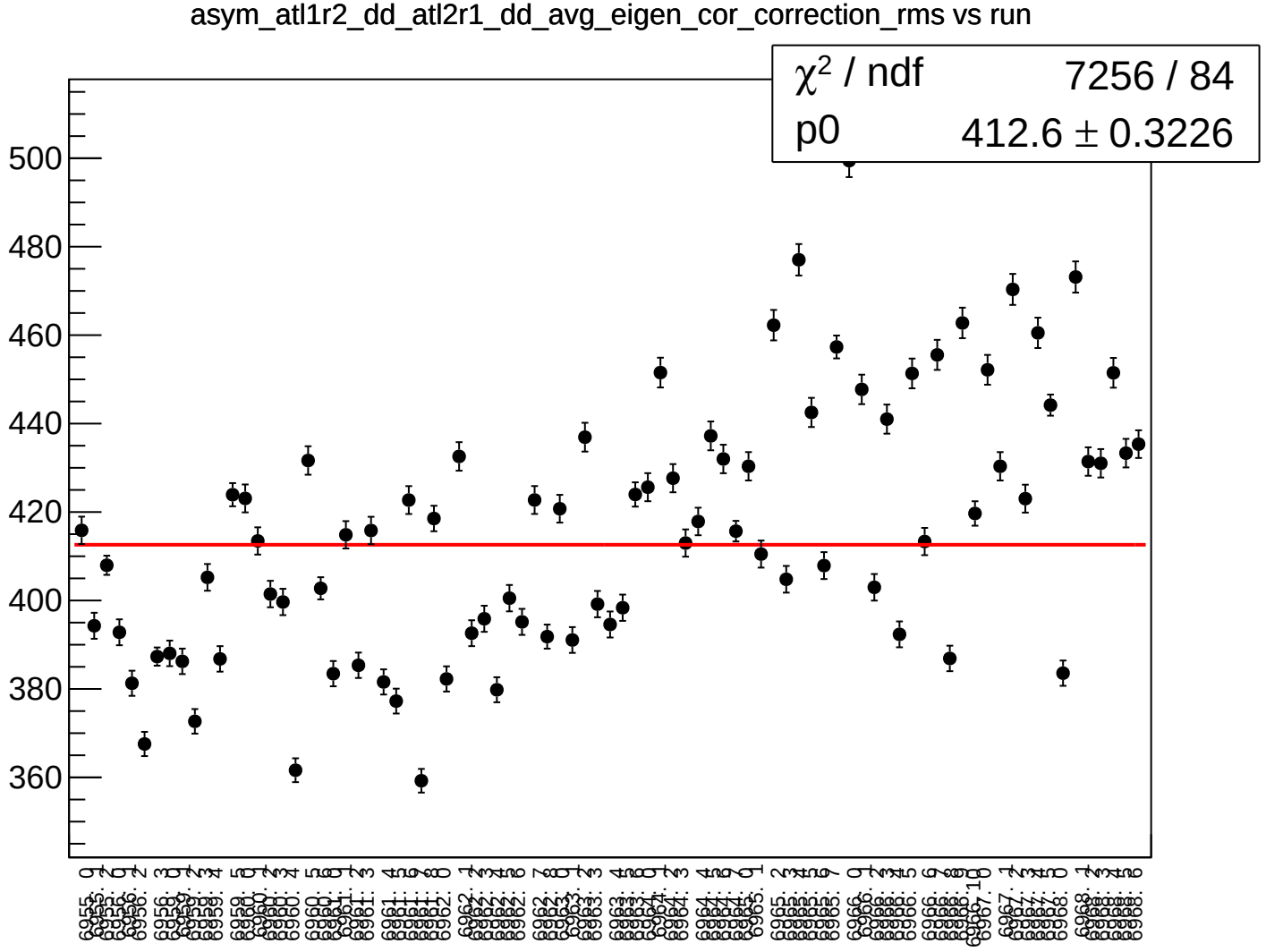

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 7256 / 84
p0 412.6 ± 0.3226
500
480
460
440
420
400
380
360

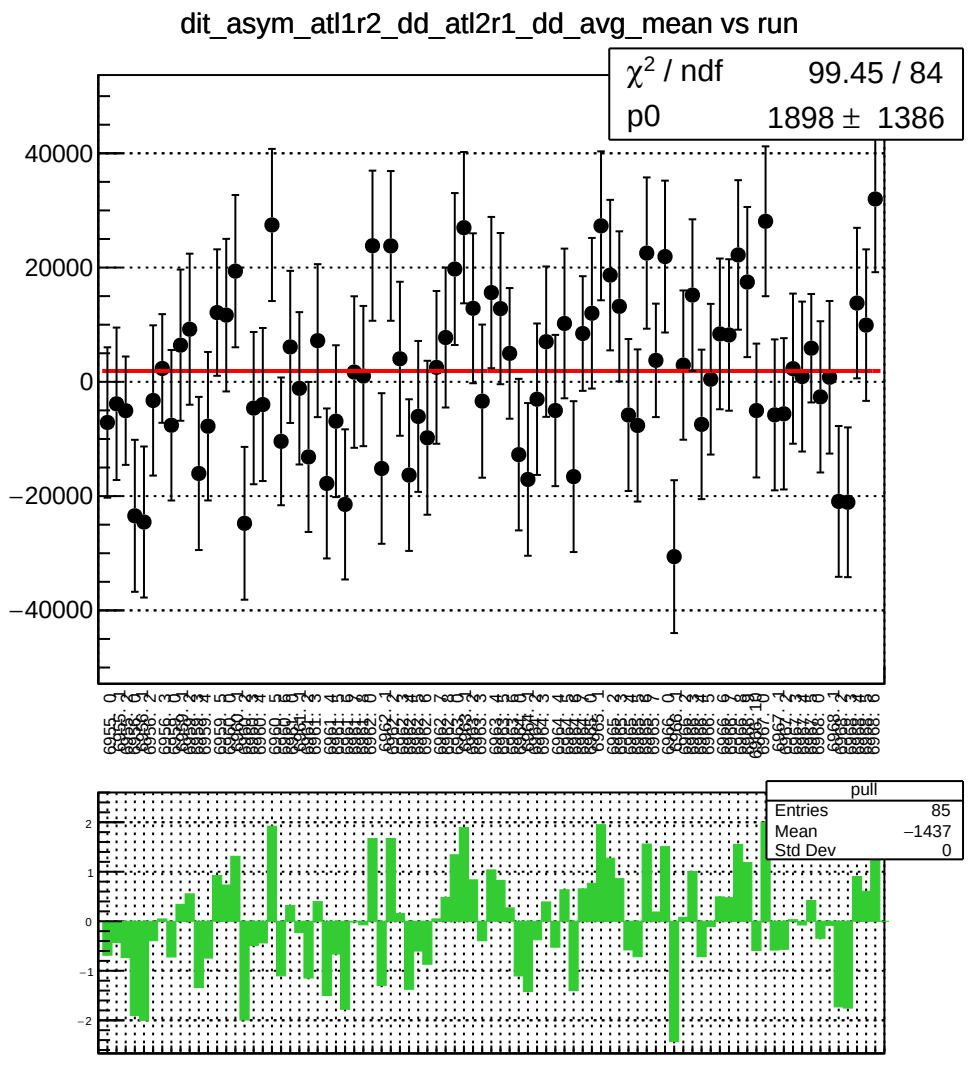

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.88 / 84
p0 1949 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1621
Std Dev 0
2
1
0
−1
−2

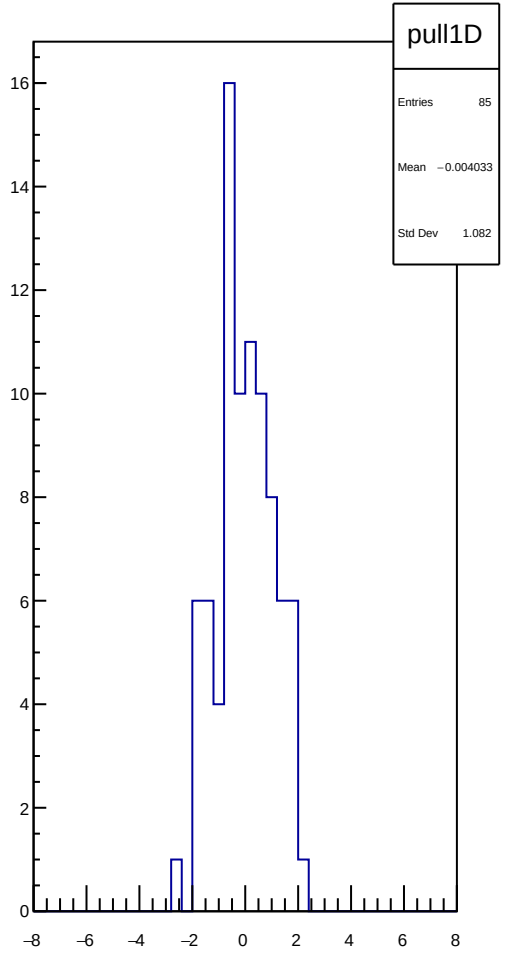

pull1D
Entries 85
Mean −0.00364
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

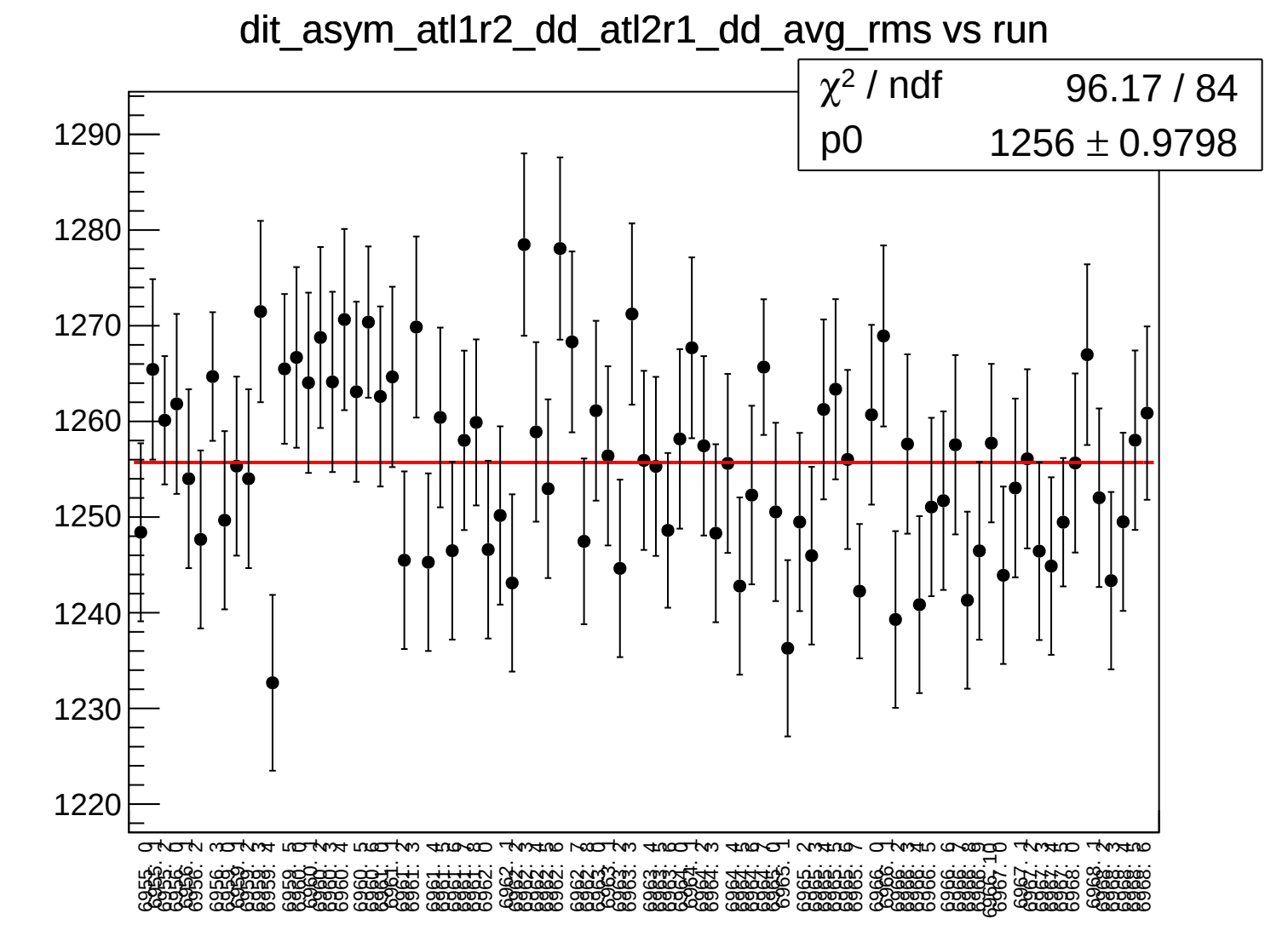

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
$\chi^2$ / ndf 97.76 / 84
p0 1255 ± 0.979
1290
1280
1270
1260
1250
1240
1230
1220

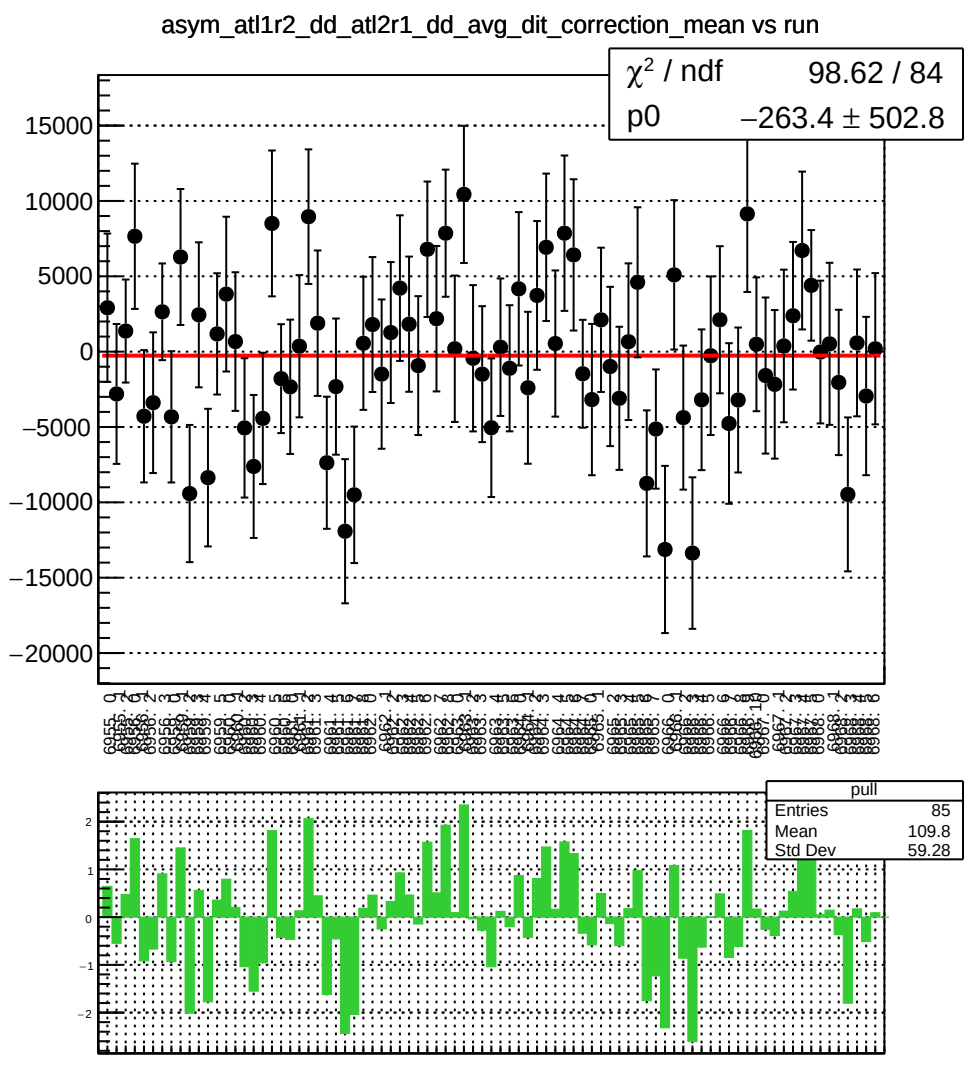

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.63 / 84
p0 −241.8 ± 456.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 270.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.0009581
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

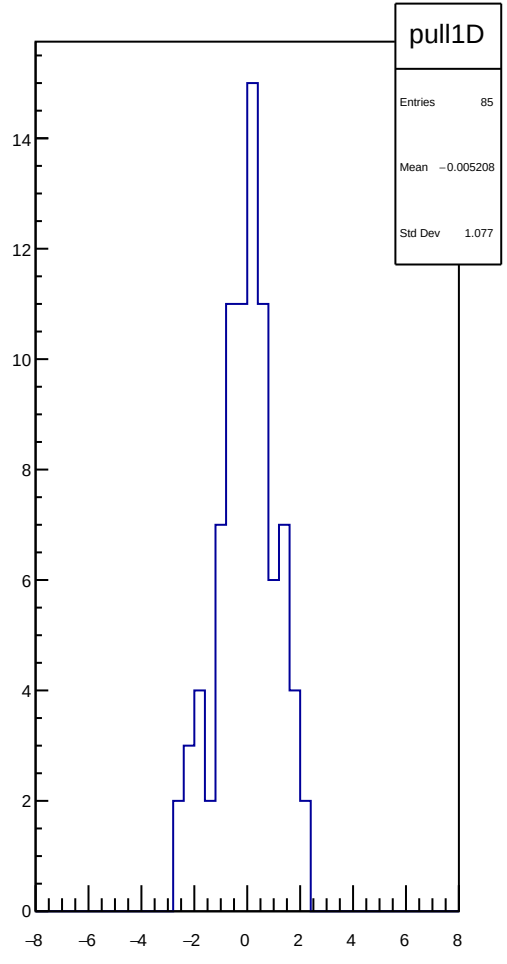

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7256 / 84
p0 412.6 ± 0.3226
500
480
460
440
420
400
380
360

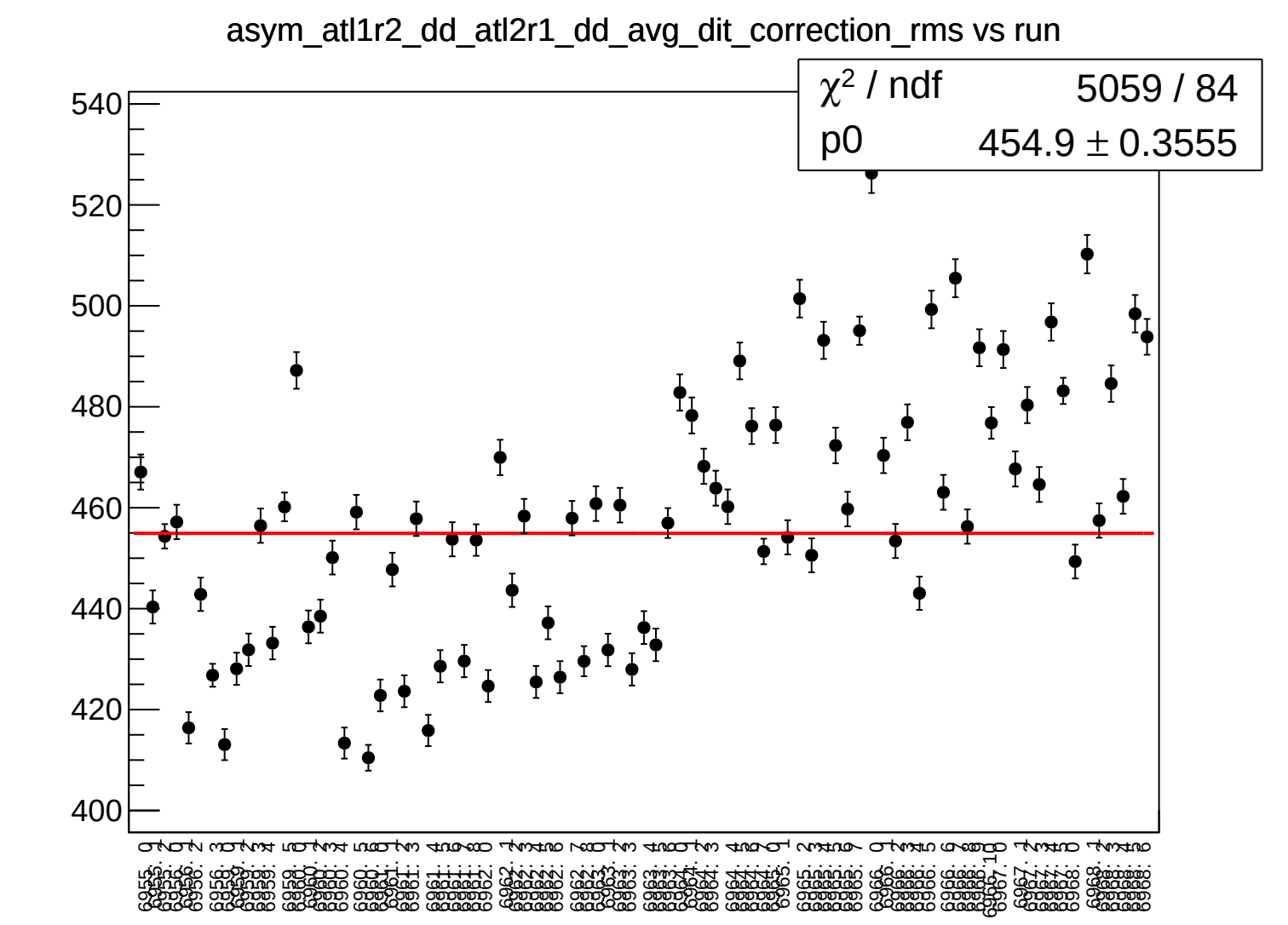

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.45 / 84
p0 1898 ± 1386
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1437
Std Dev 0
2
1
0
−1
−2

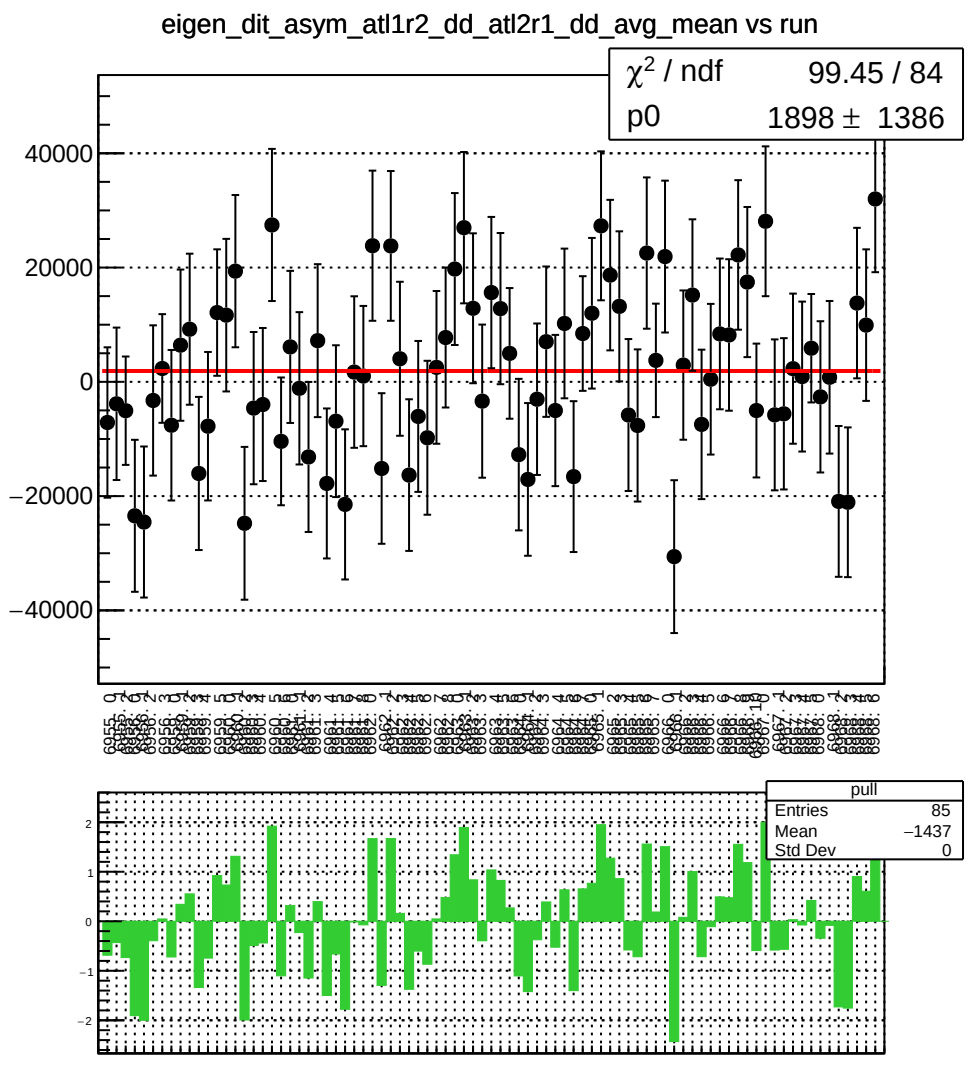

pull1D
Entries 85
Mean −0.004033
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

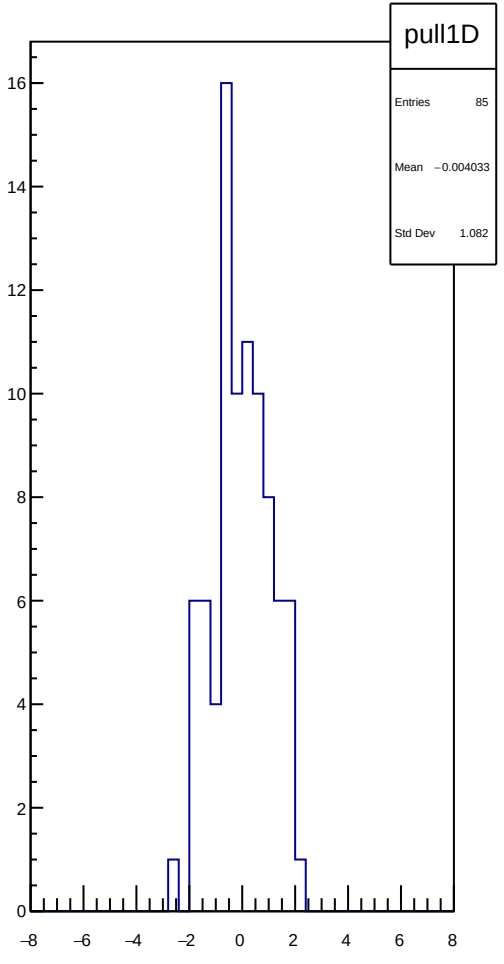

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 96.17 / 84
p0 1256 ± 0.9798
1290
1280
1270
1260
1250
1240
1230
1220

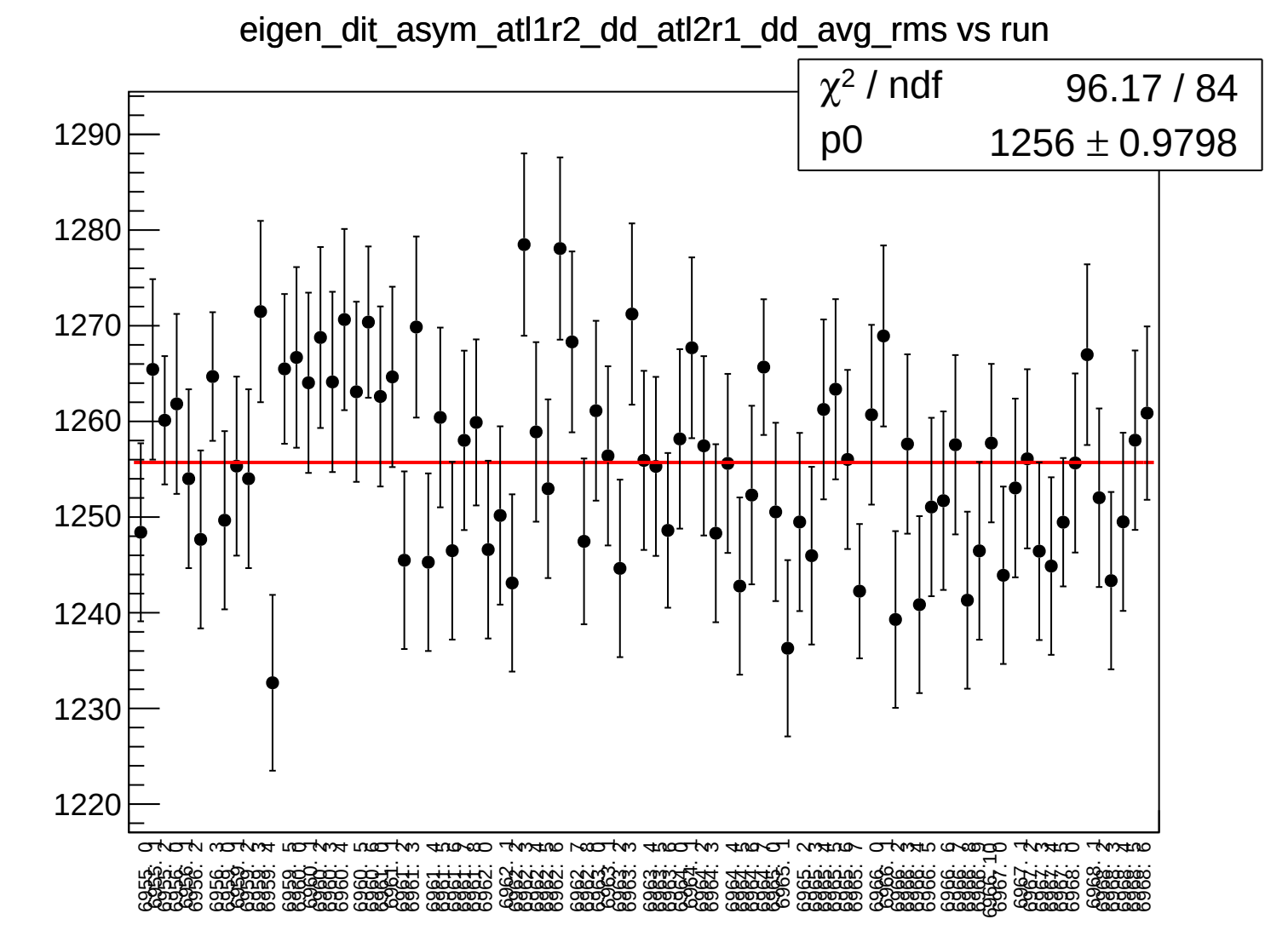

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 98.62 / 84
p0 −263.4 ± 502.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 109.8
Std Dev 59.28
2
1
0
−1
−2

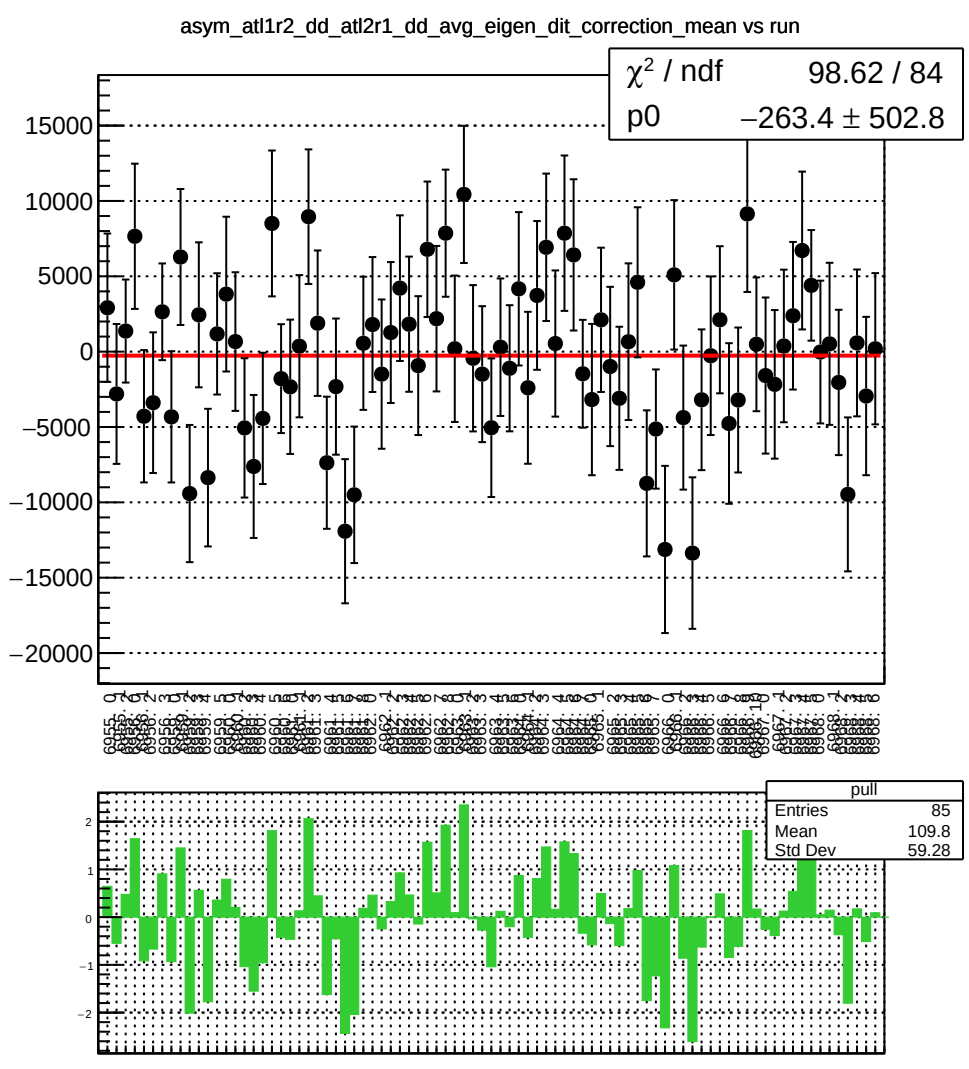

pull1D
Entries 85
Mean −0.005208
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

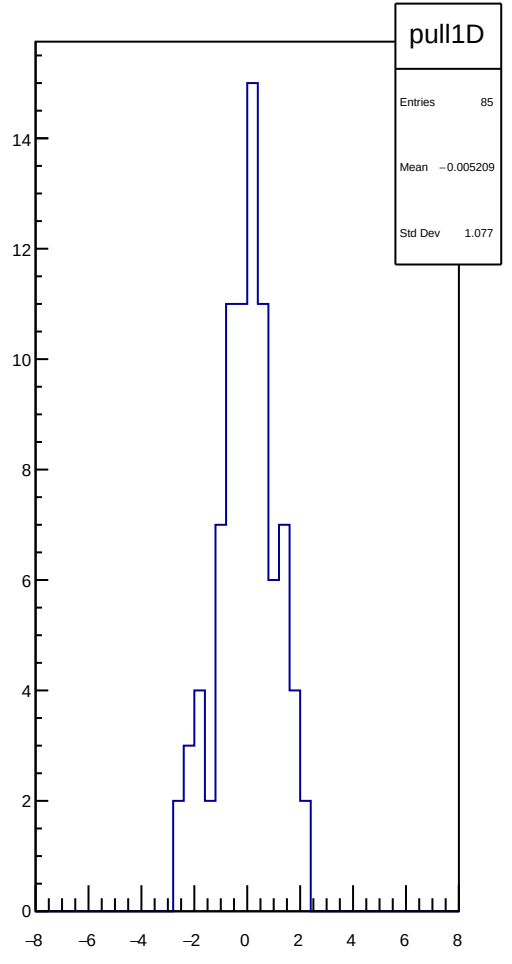

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 5059 / 84
p0 454.9 ± 0.3555
540
520
500
480
460
440
420
400

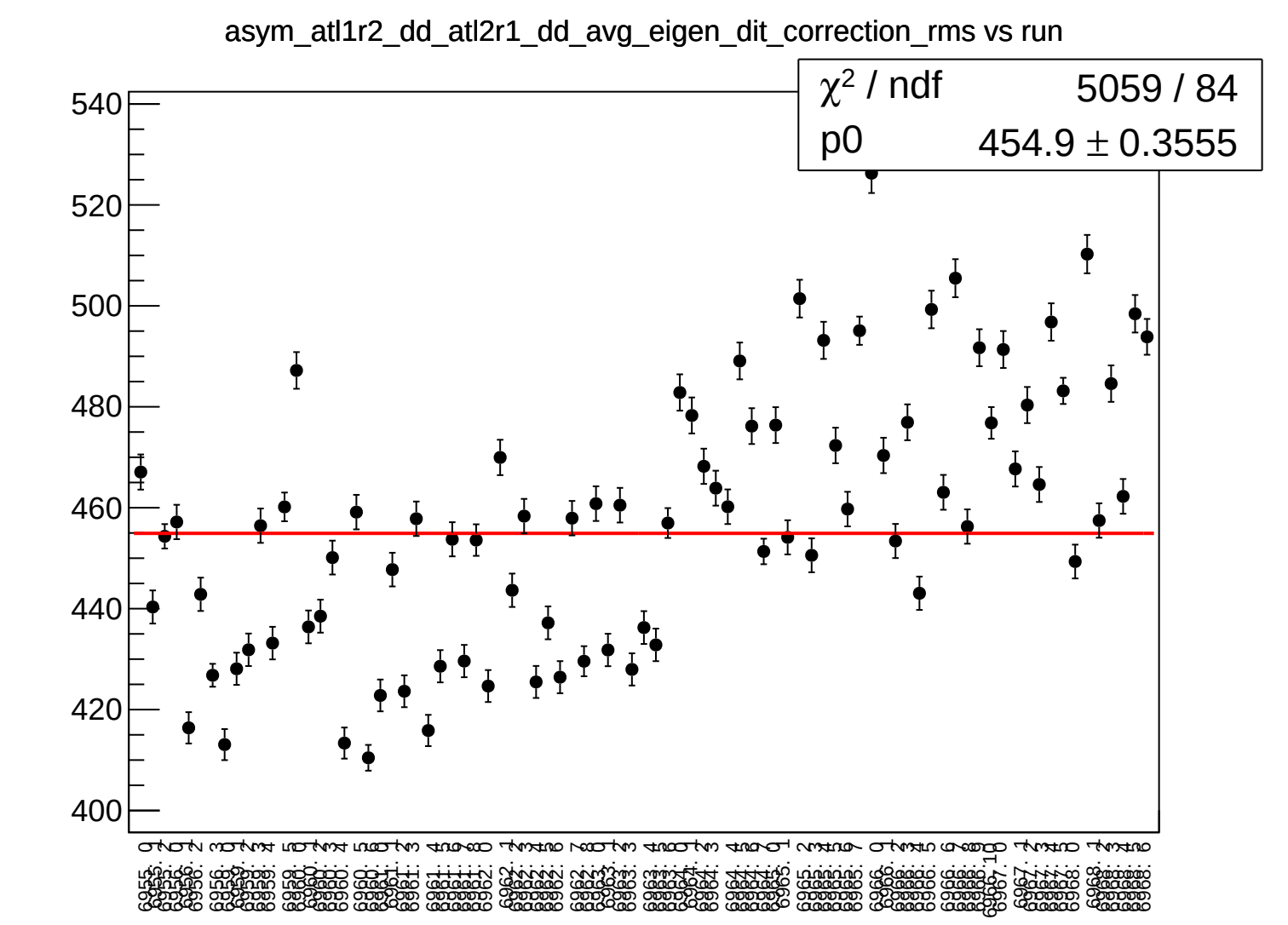

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.45 / 84
p0 1898 ± 1386
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1437
Std Dev 0
2
1
0
−1
−2

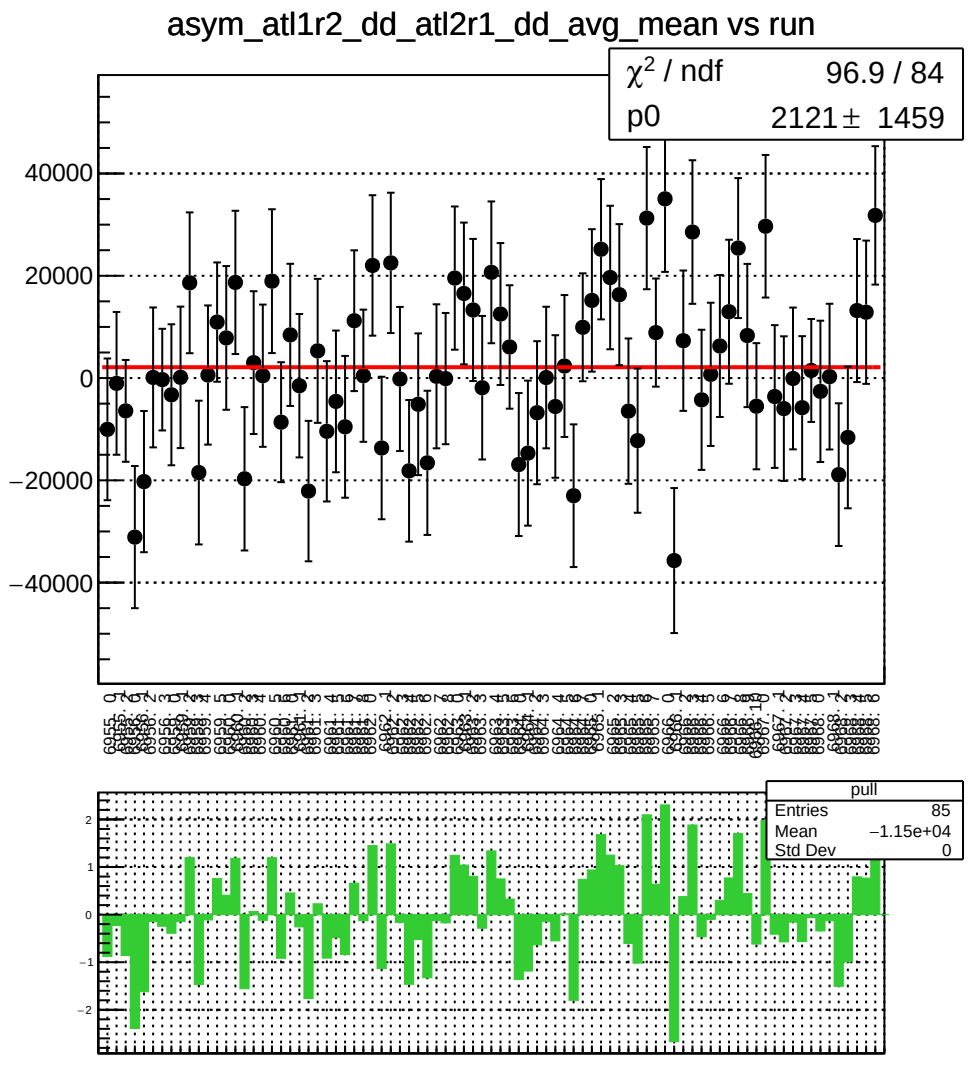

pull1D
Entries 85
Mean −0.004033
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

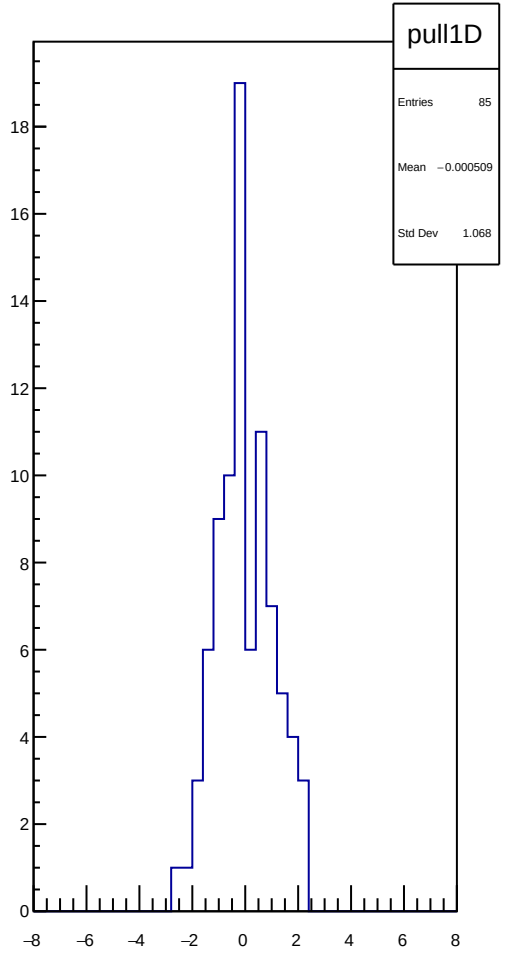

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
$\chi^2$ / ndf 96.17 / 84
p0 1256 ± 0.9798
1290
1280
1270
1260
1250
1240
1230
1220

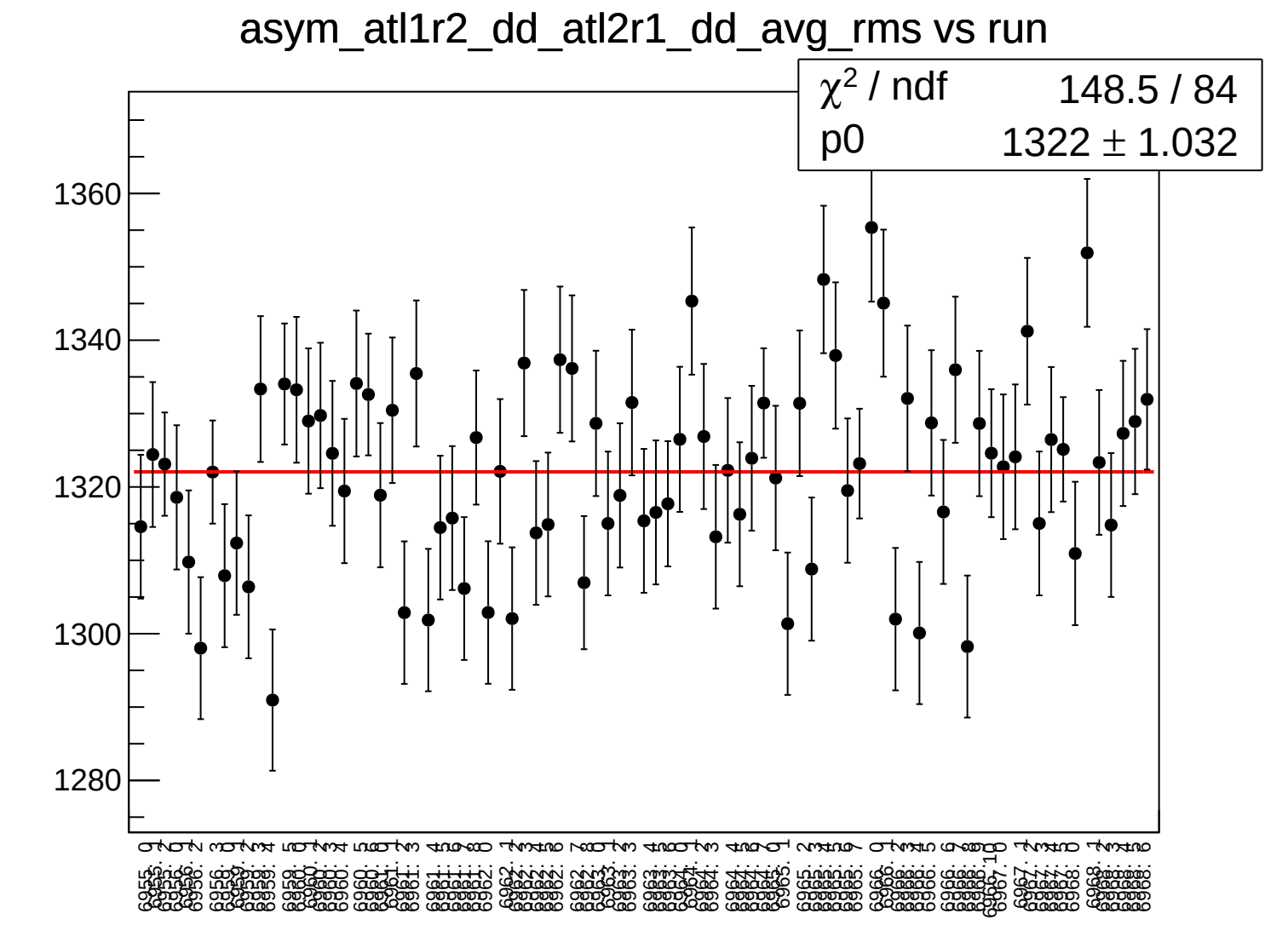

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.62 / 84
p0 −263.4 ± 502.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 109.8
Std Dev 59.28
2
1
0
−1
−2

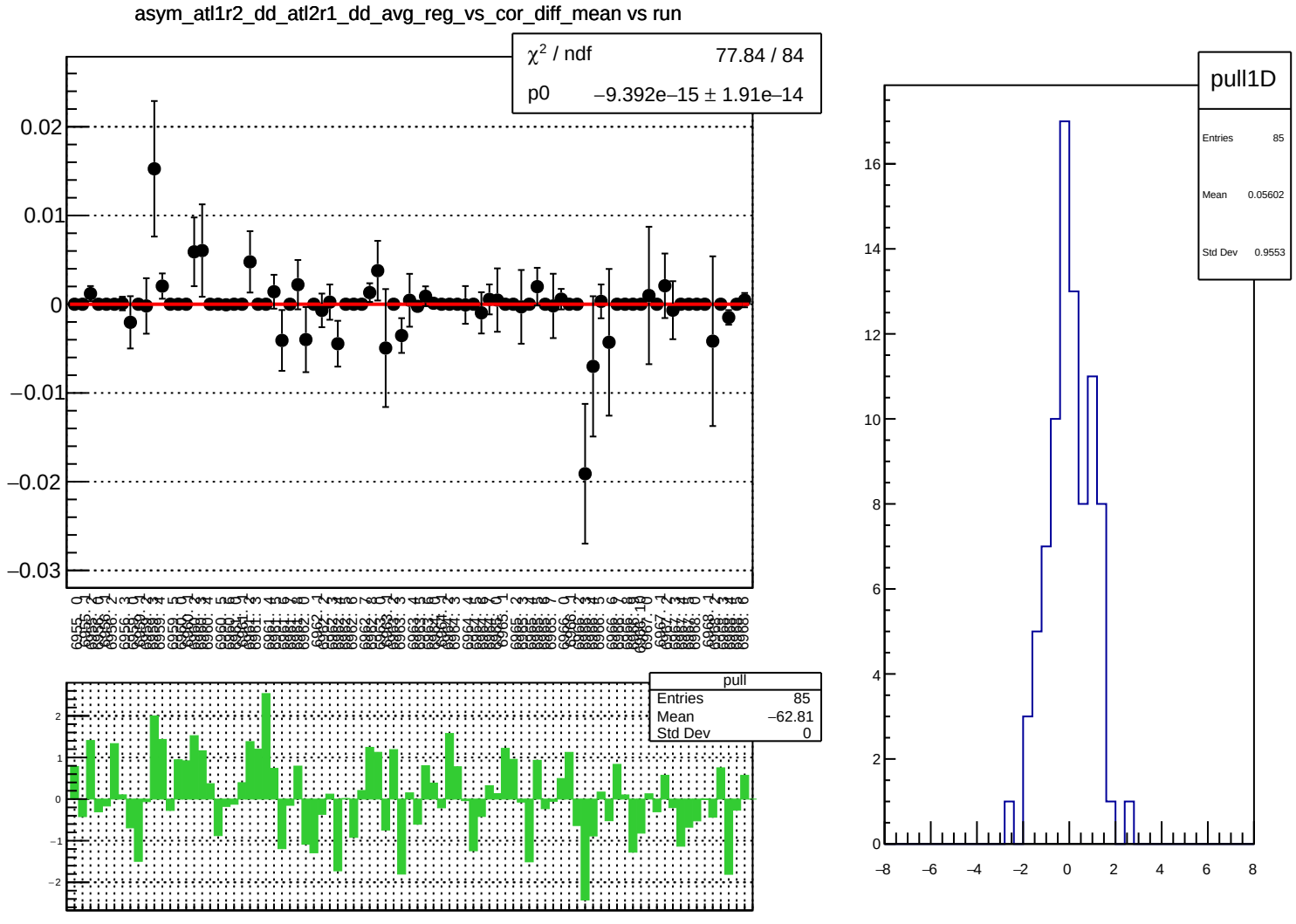

pull1D
Entries 85
Mean −0.005209
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

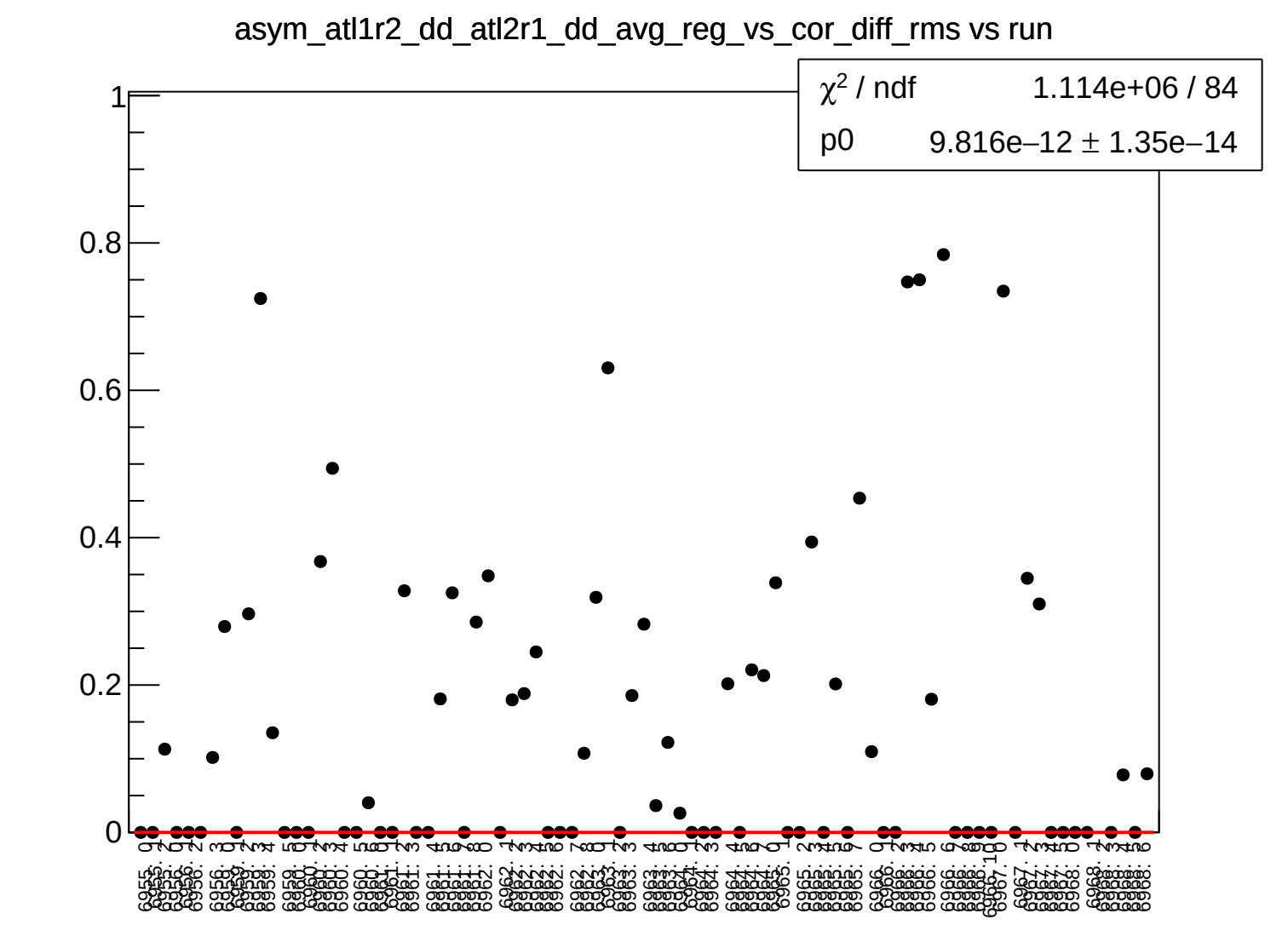

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5059 / 84
p0 454.9 ± 0.3555
540
520
500
480
460
440
420
400

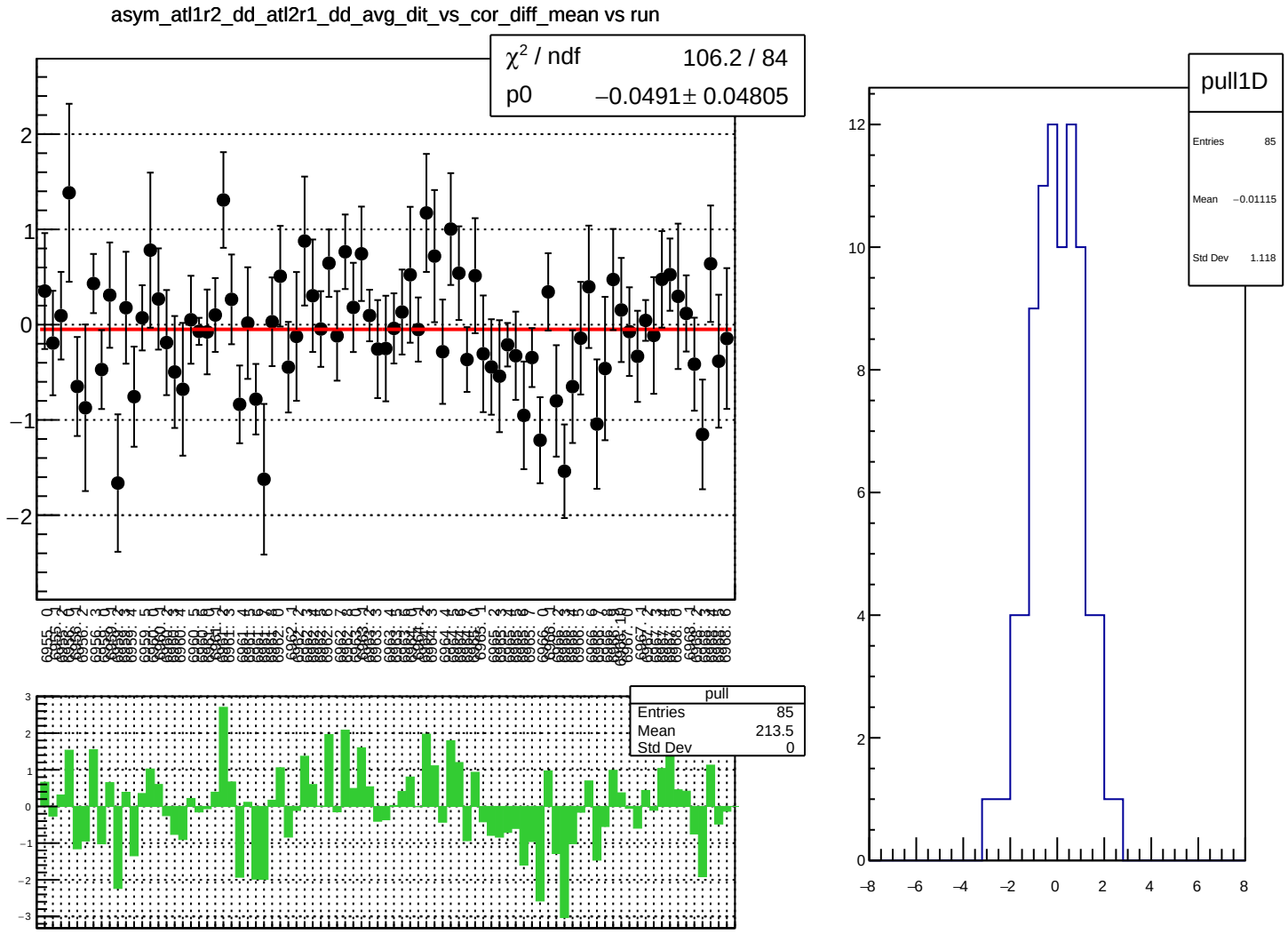

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.9 / 84
p0 2121 ± 1459
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1.15e+04
Std Dev 0
2
1
0
−1
−2

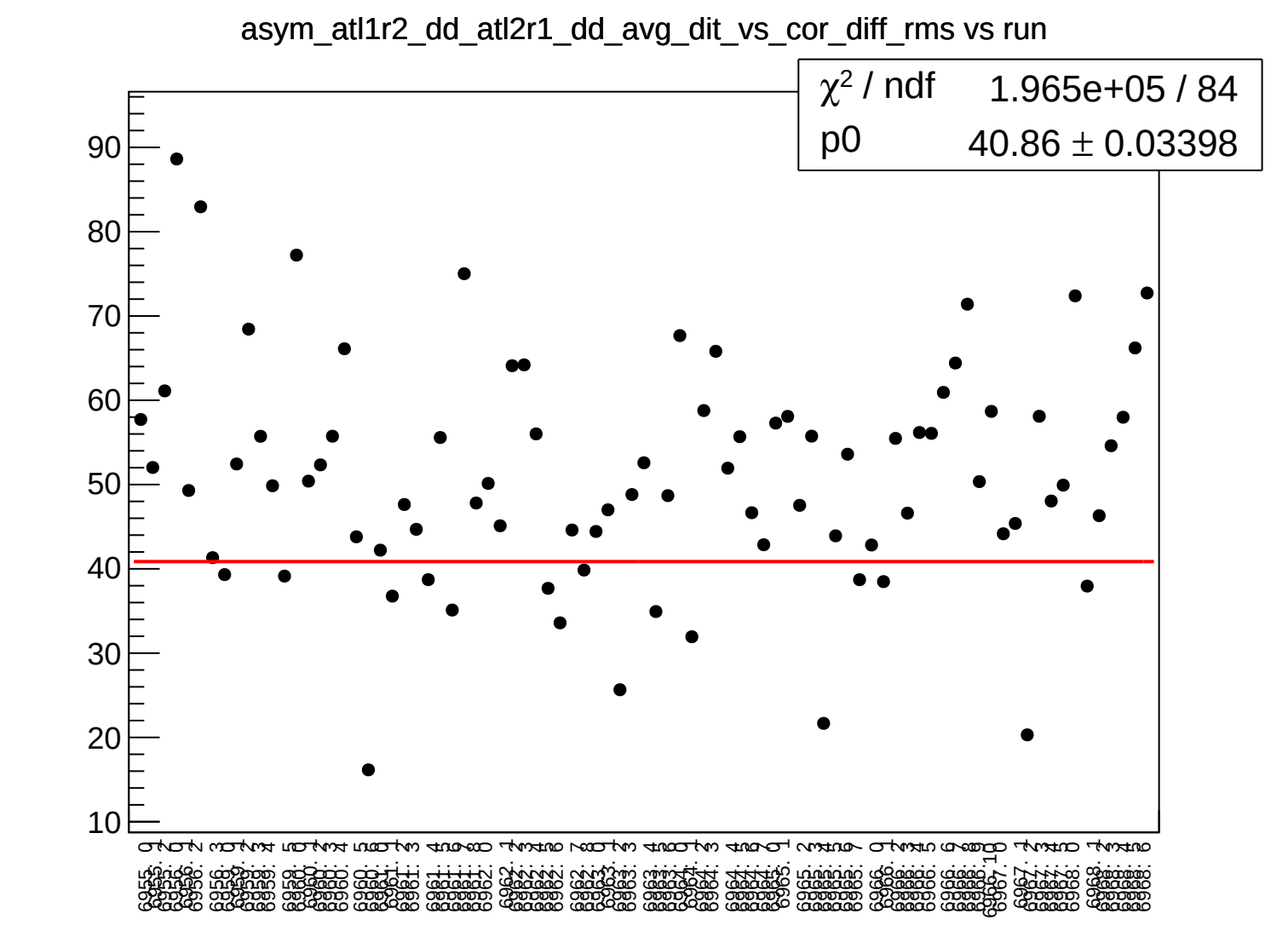

pull1D
Entries 85
Mean −0.000509
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

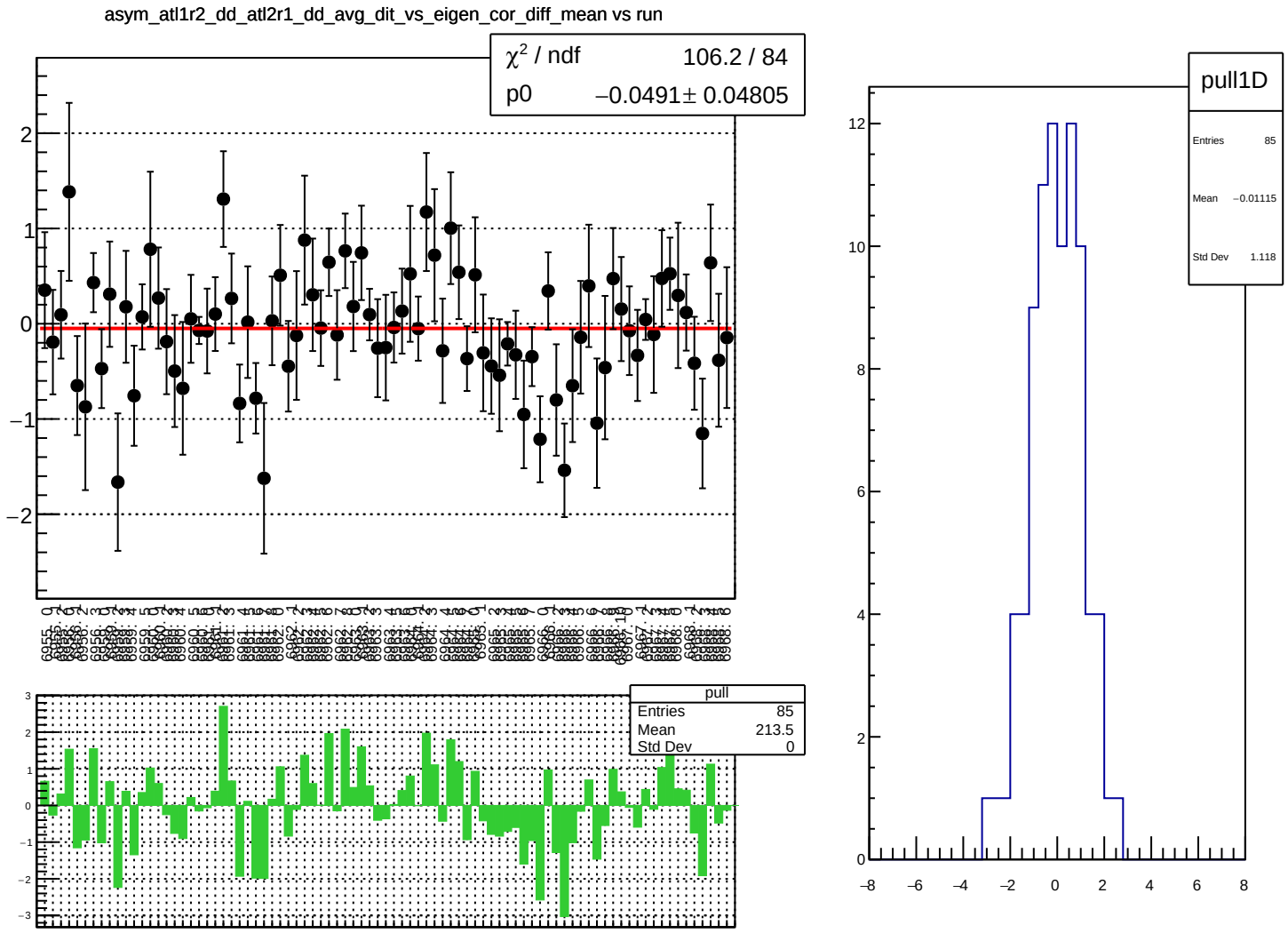

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
$\chi^2$ / ndf 148.5 / 84
p0 1322 ± 1.032
1360
1340
1320
1300
1280

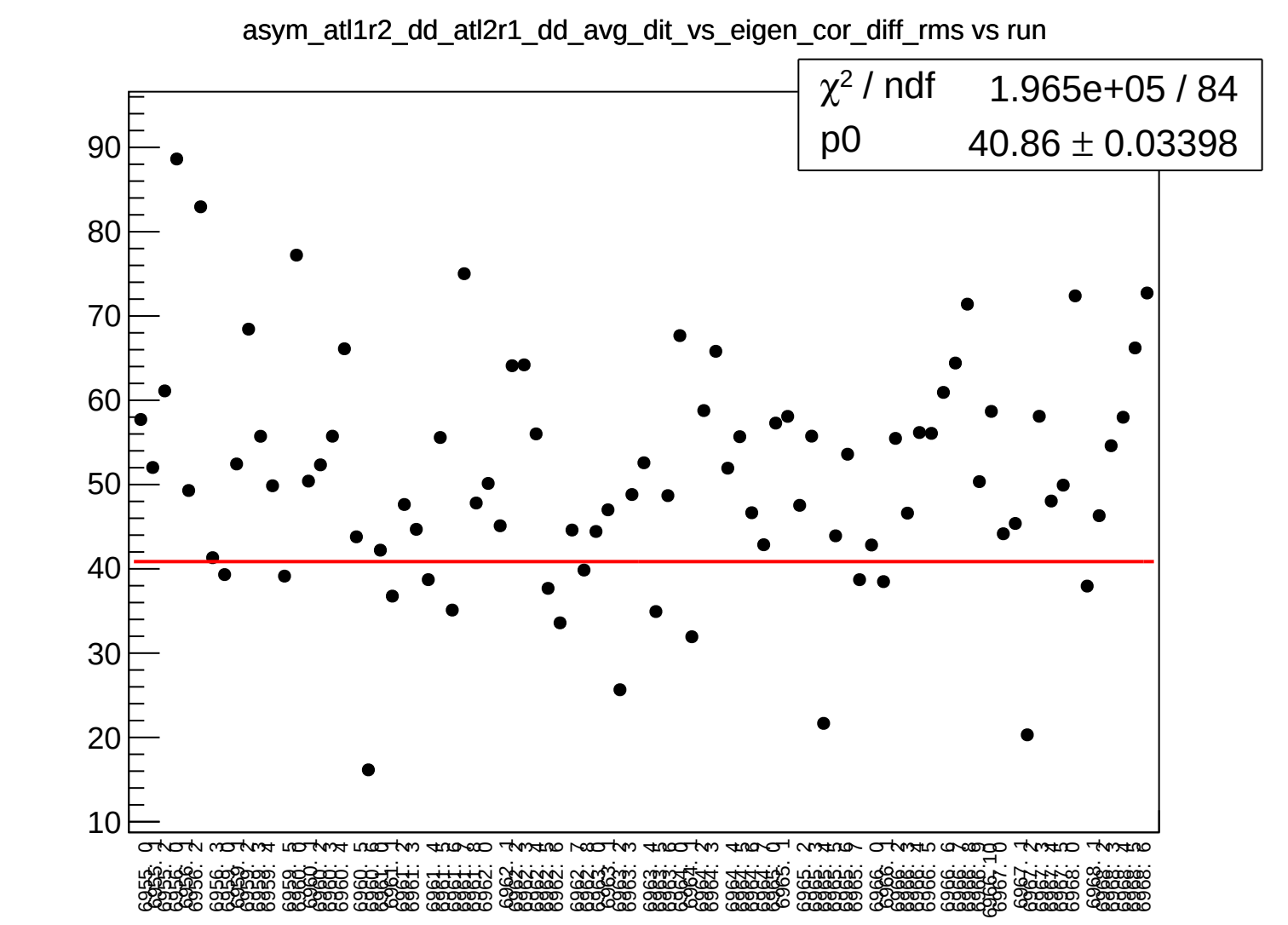

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.84 / 84
p0 −9.392e−15 ± 1.91e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean −62.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.05602
Std Dev 0.9553
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

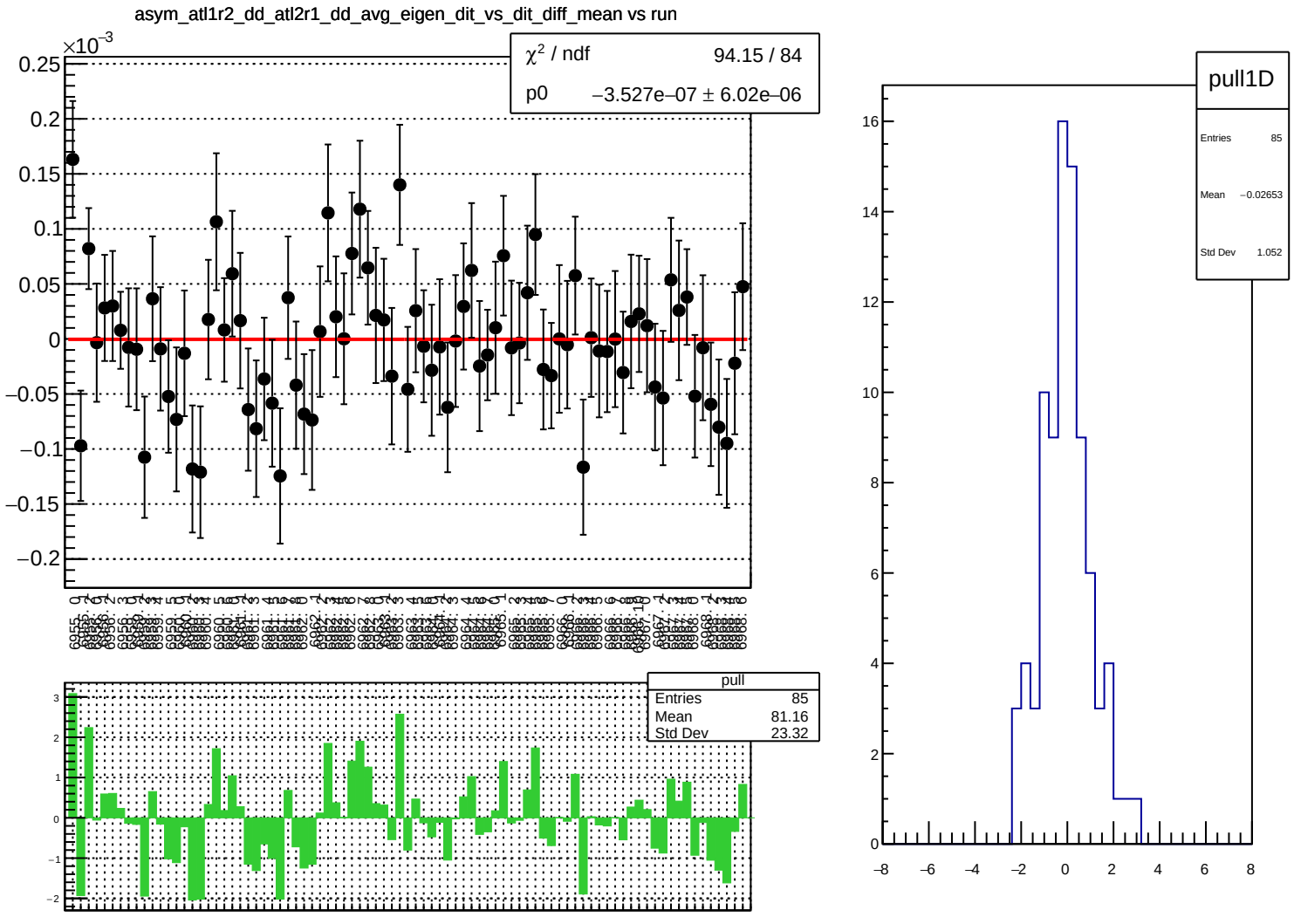

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.114e+06 / 84
p0 9.816e−12 ± 1.35e−14
1
0.8
0.6
0.4
0.2
0

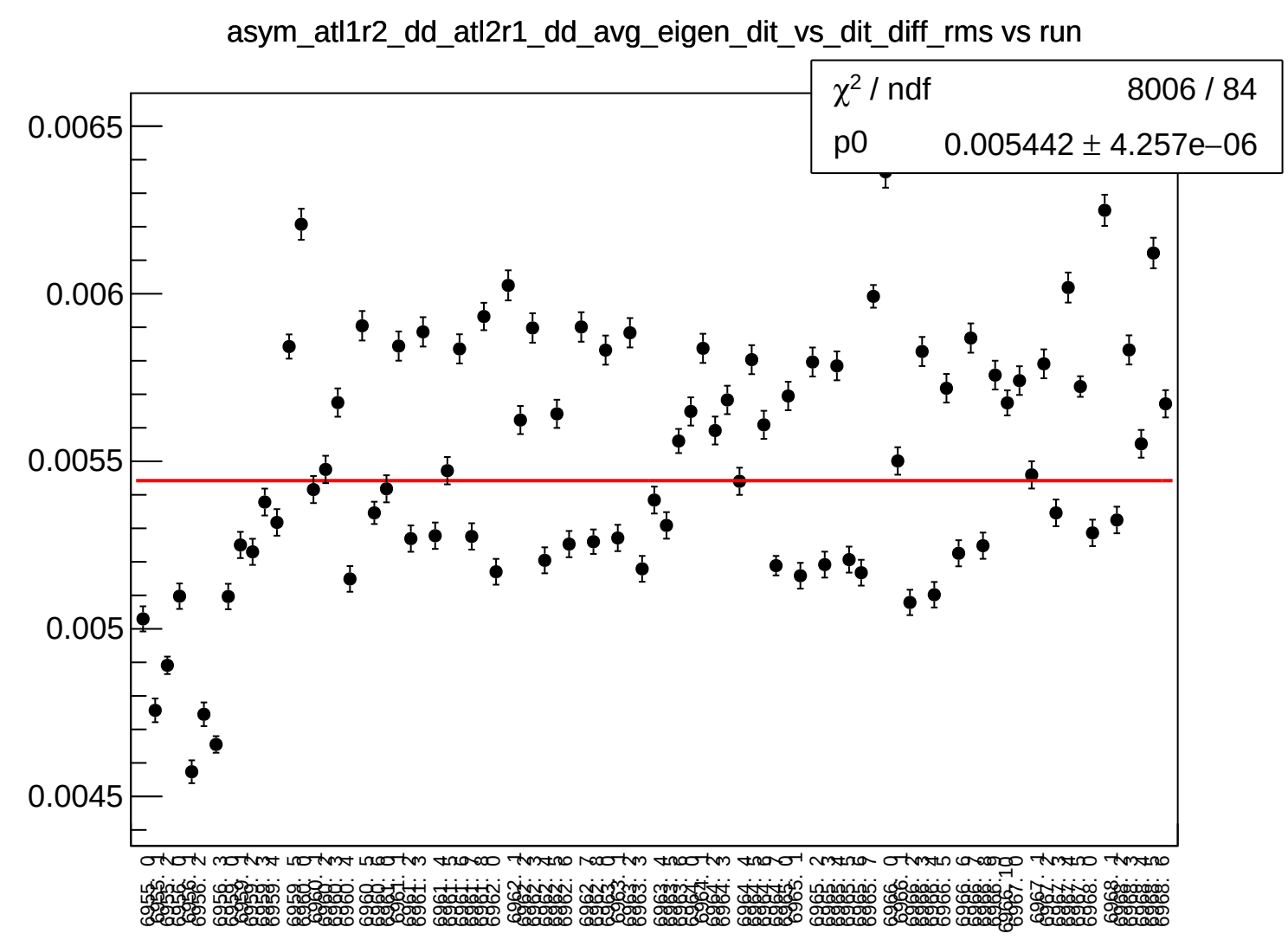

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 84
p0 −0.0491± 0.04805
pull
Entries 85
Mean 213.5
Std Dev 0
pull1D
Entries 85
Mean −0.01115
Std Dev 1.118

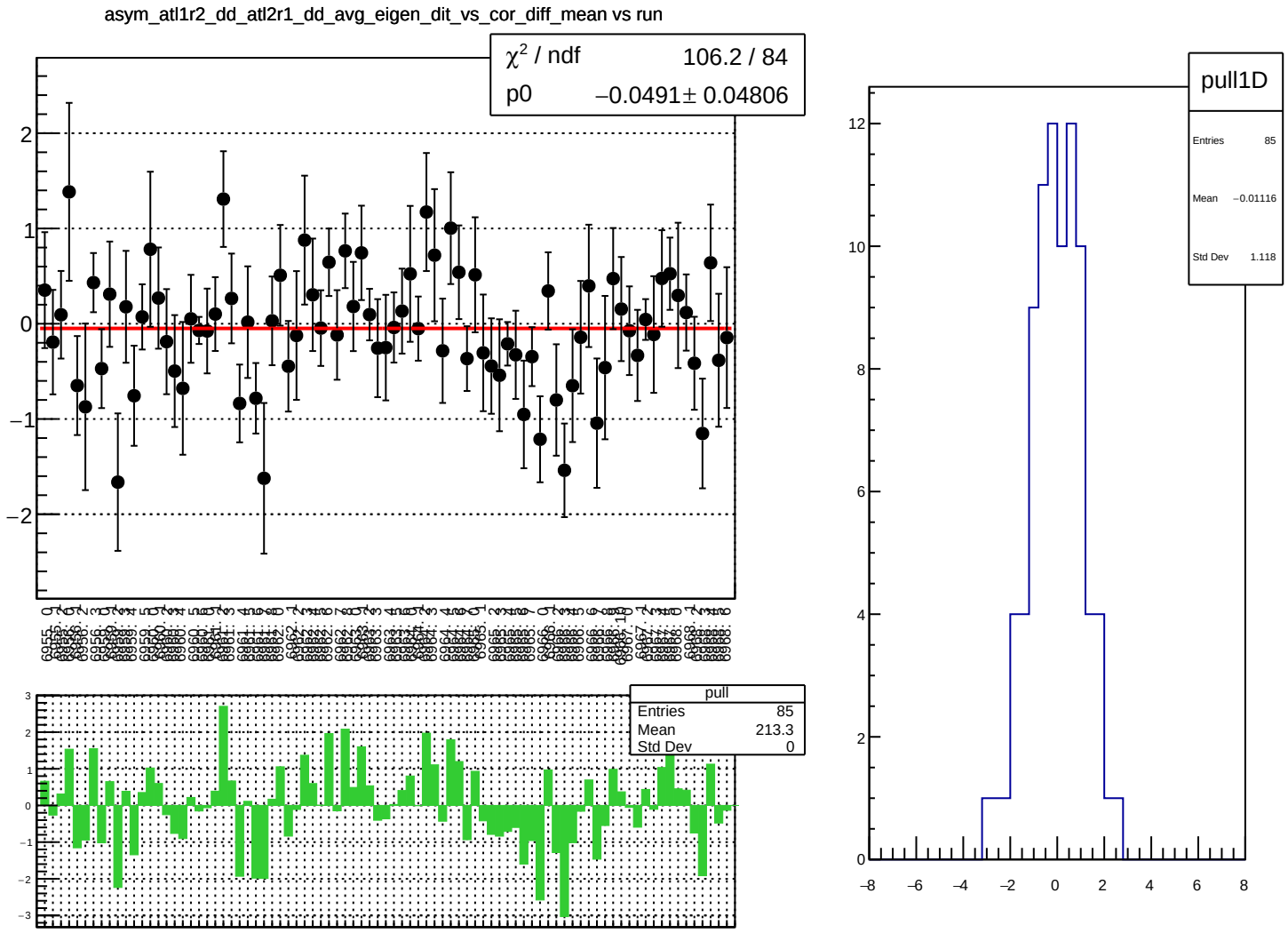

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 84
p0 40.86 ± 0.03398
90
80
70
60
50
40
30
20
10

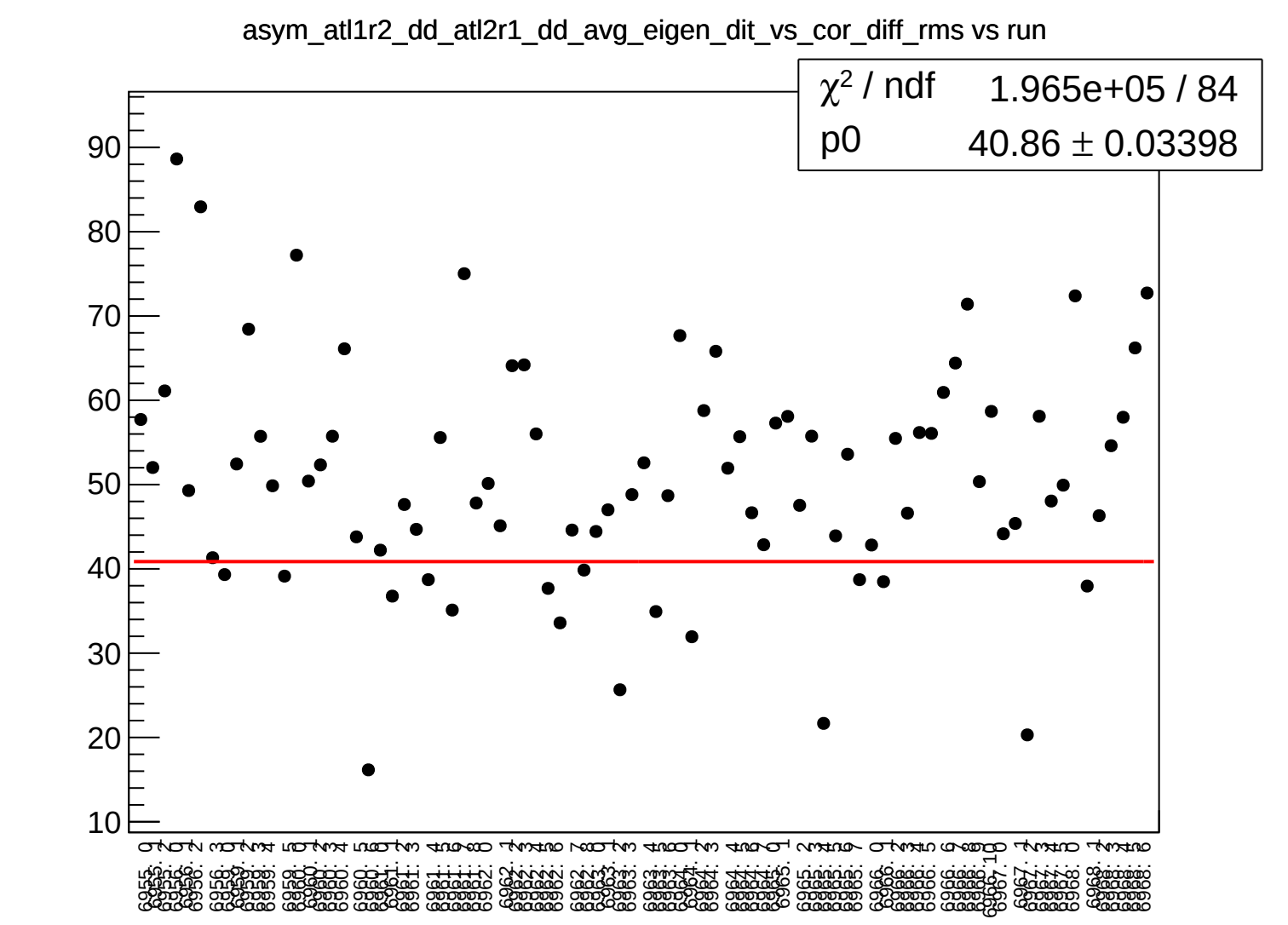

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 84
p0 −0.0491 ± 0.04805
pull
Entries 85
Mean 213.5
Std Dev 0
pull1D
Entries 85
Mean −0.01115
Std Dev 1.118

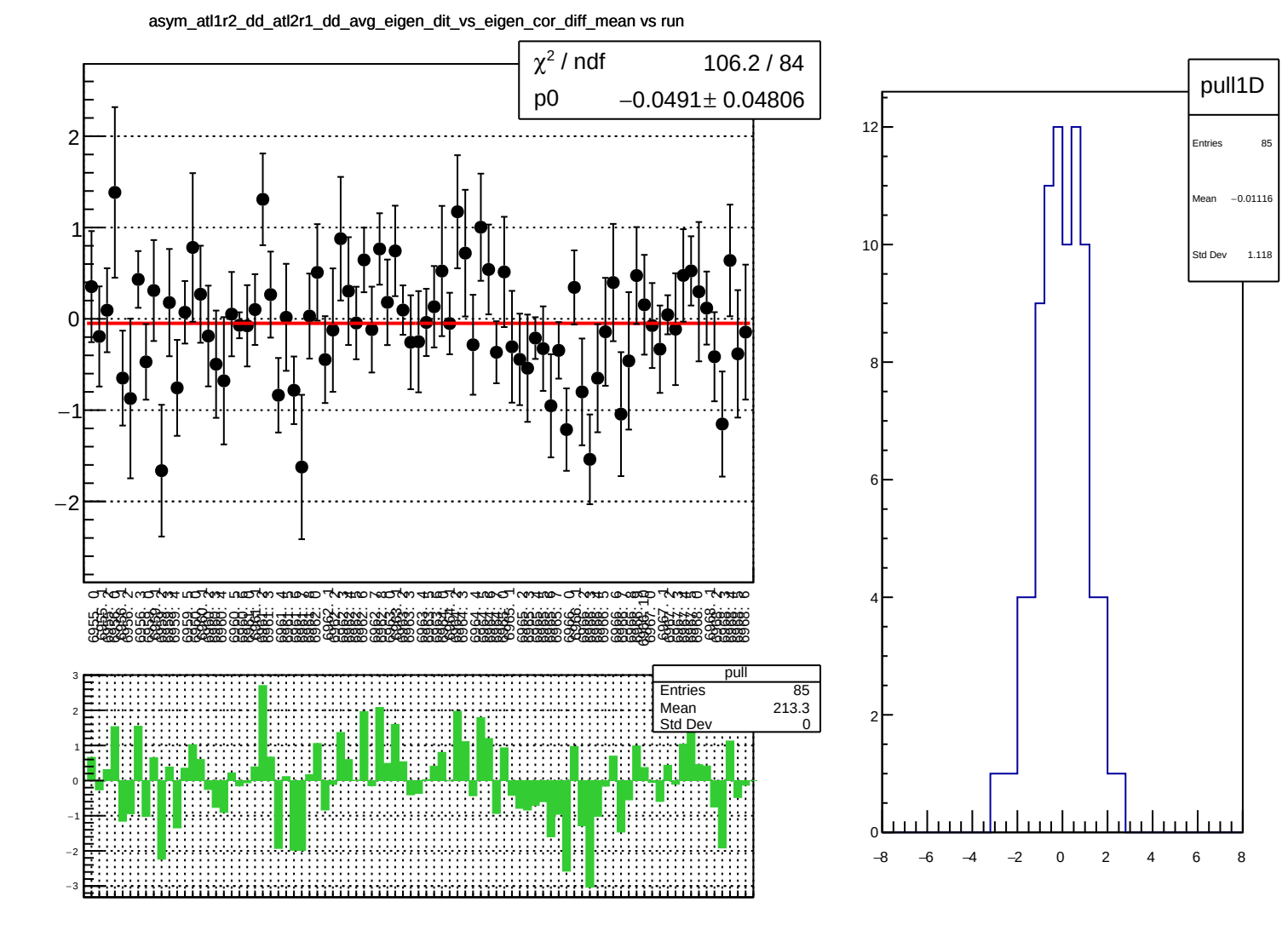

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 84
p0 40.86 ± 0.03398
90
80
70
60
50
40
30
20
10

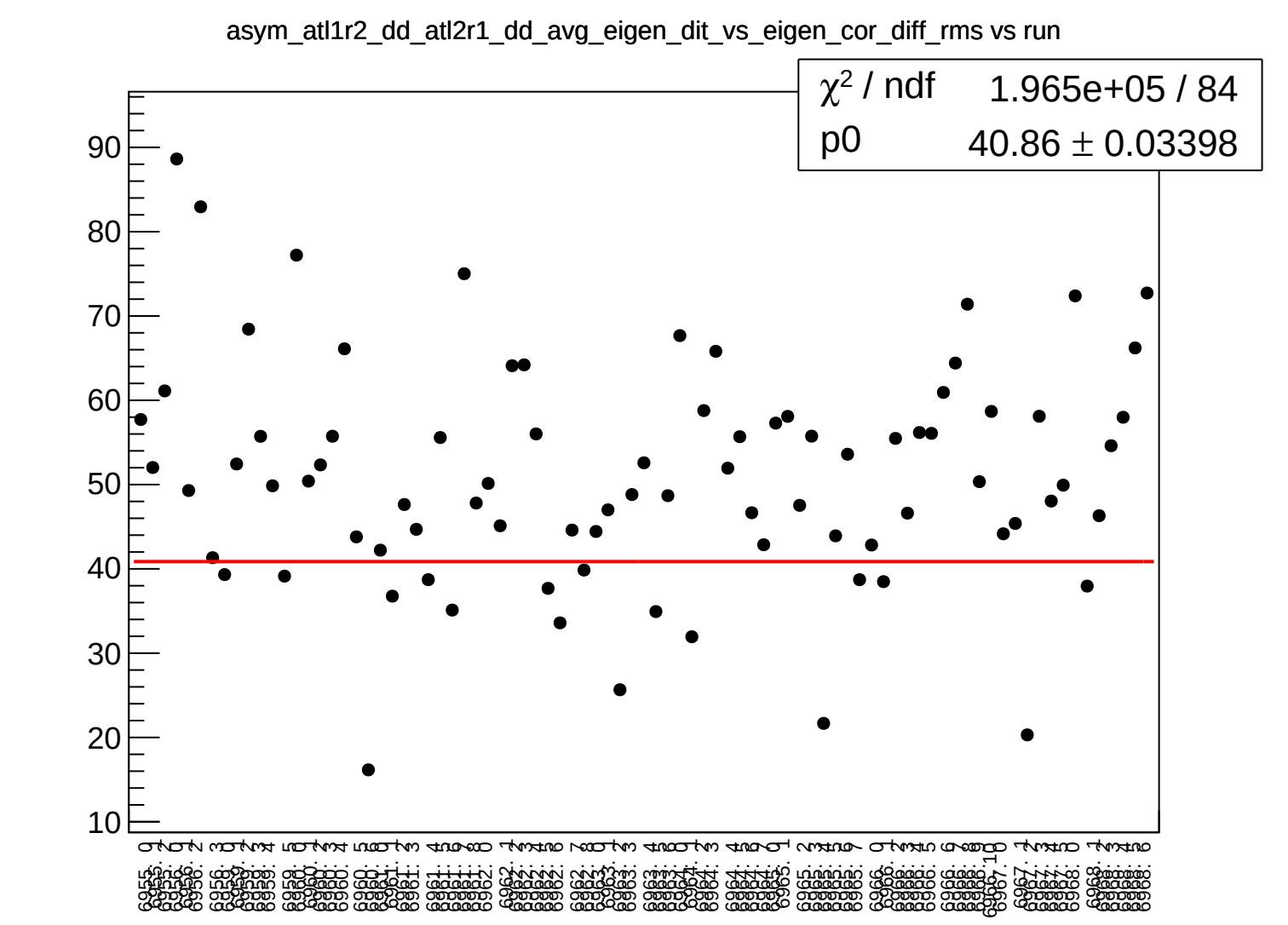

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 94.15 / 84
p0 −3.527e−07 ± 6.02e−06
pull
Entries 85
Mean 81.16
Std Dev 23.32
pull1D
Entries 85
Mean −0.02653
Std Dev 1.052

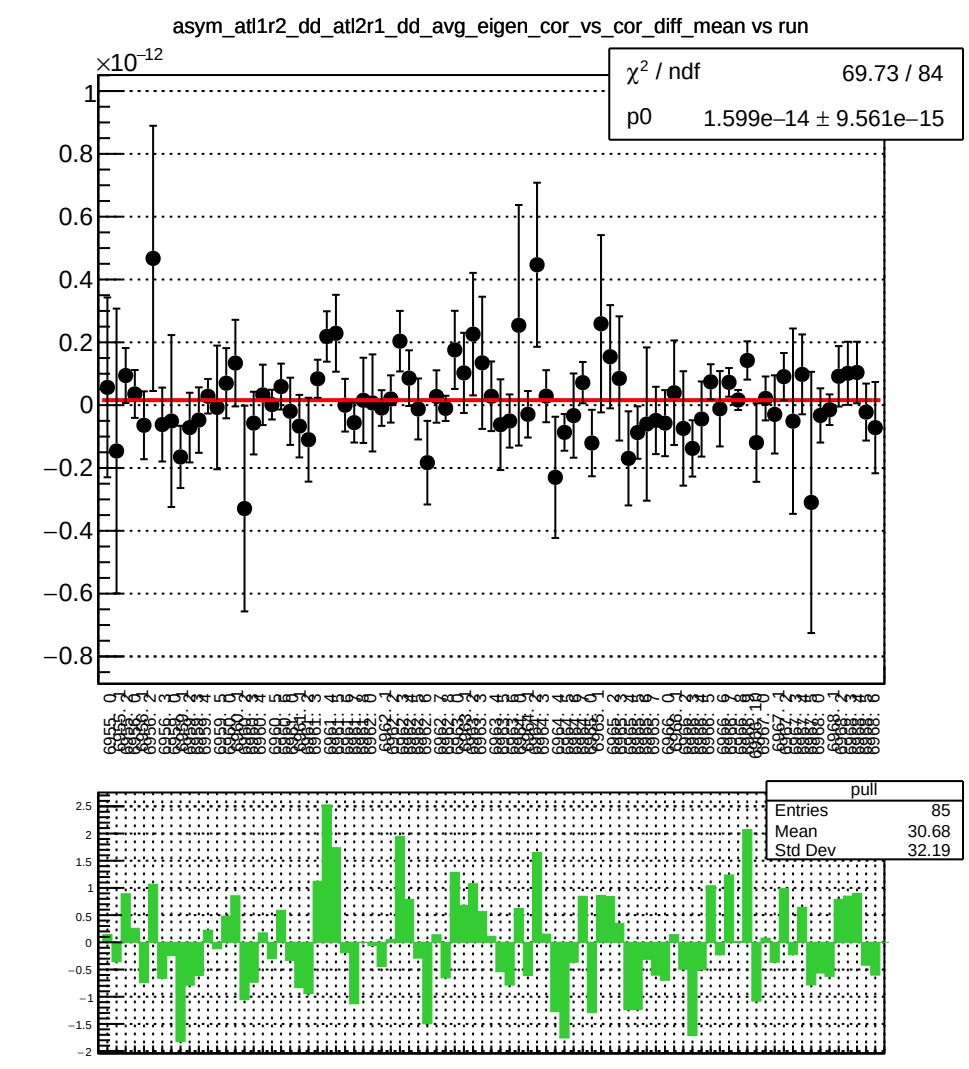

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8006 / 84
p0 0.005442 ± 4.257e−06
0.0065
0.006
0.0055
0.005
0.0045

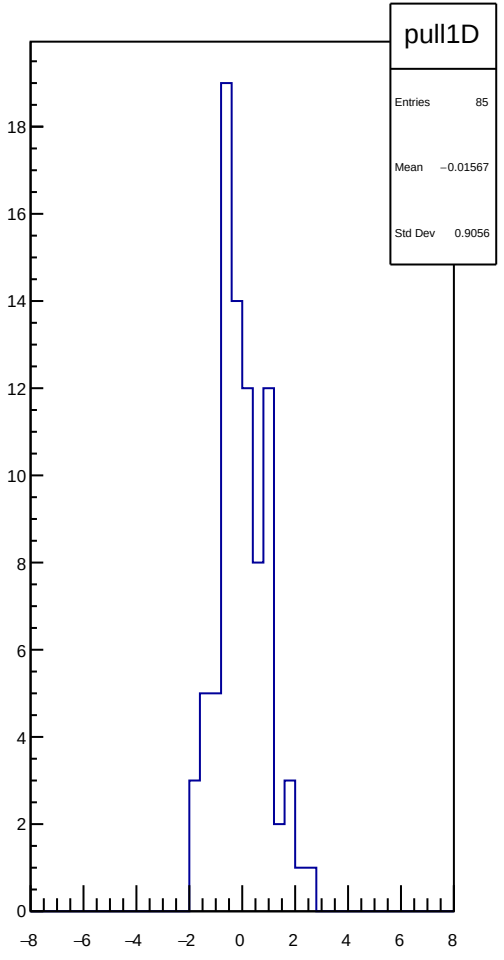

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 84
p0 −0.0491 ± 0.04806
pull
Entries 85
Mean 213.3
Std Dev 0
pull1D
Entries 85
Mean −0.01116
Std Dev 1.118

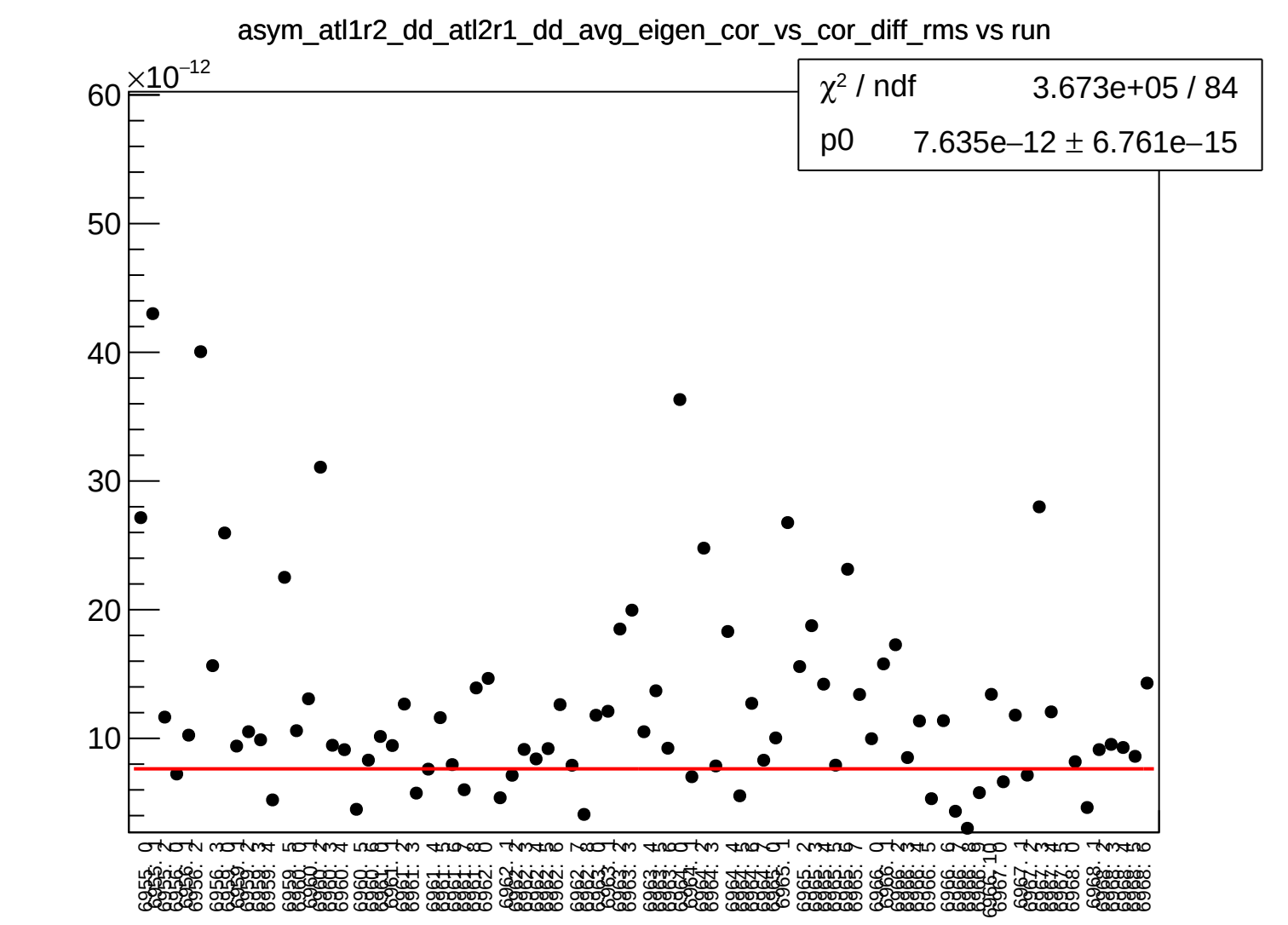

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 84
p0 40.86 ± 0.03398
90
80
70
60
50
40
30
20
10

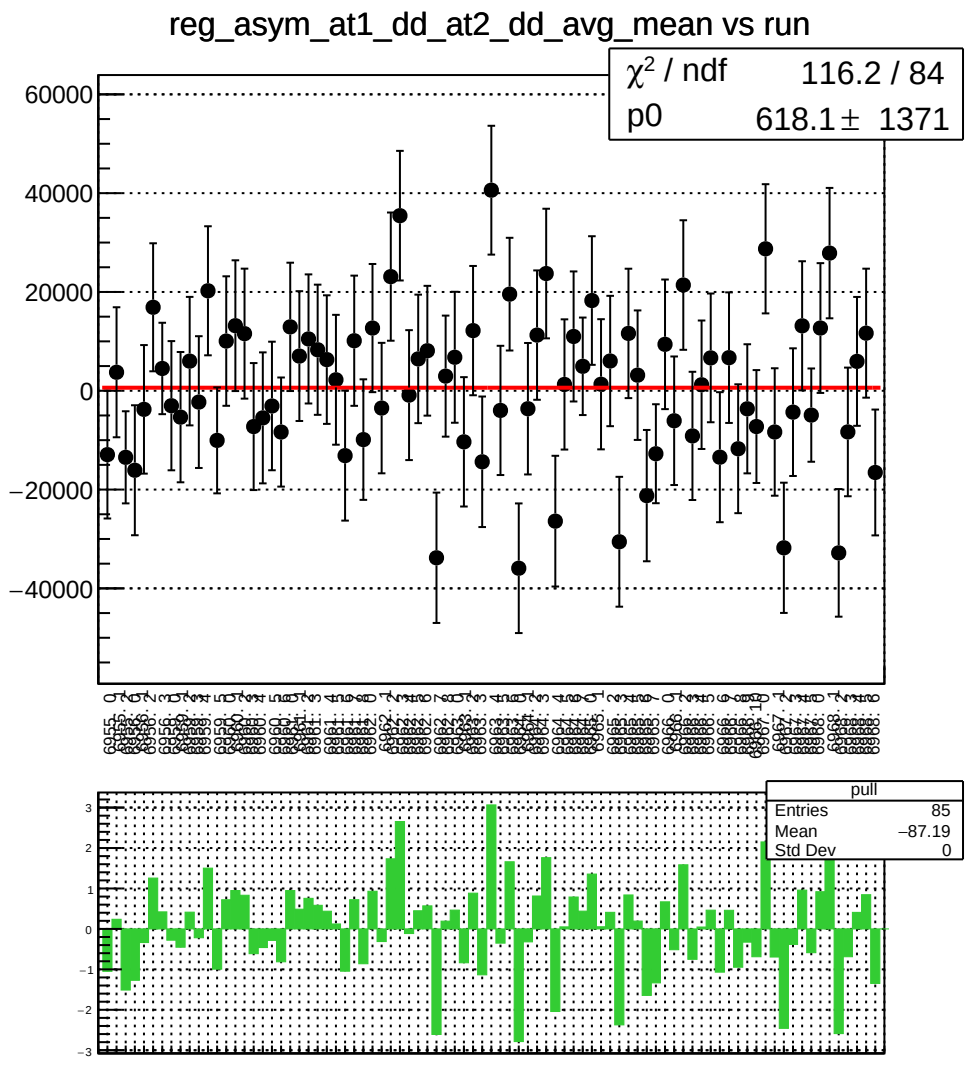

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 84
p0 −0.0491 ± 0.04806
pull
Entries 85
Mean 213.3
Std Dev 0
pull1D
Entries 85
Mean −0.01116
Std Dev 1.118

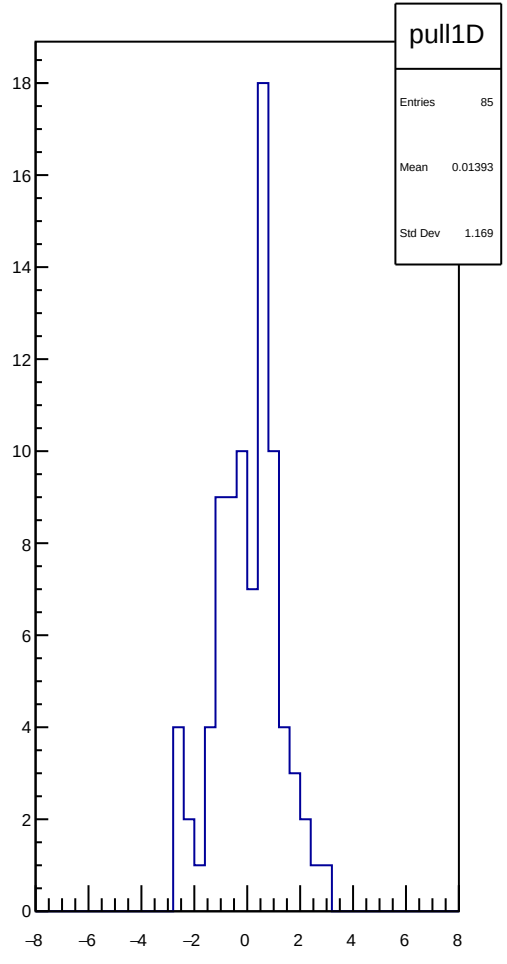

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 84
p0 40.86 ± 0.03398
90
80
70
60
50
40
30
20
10

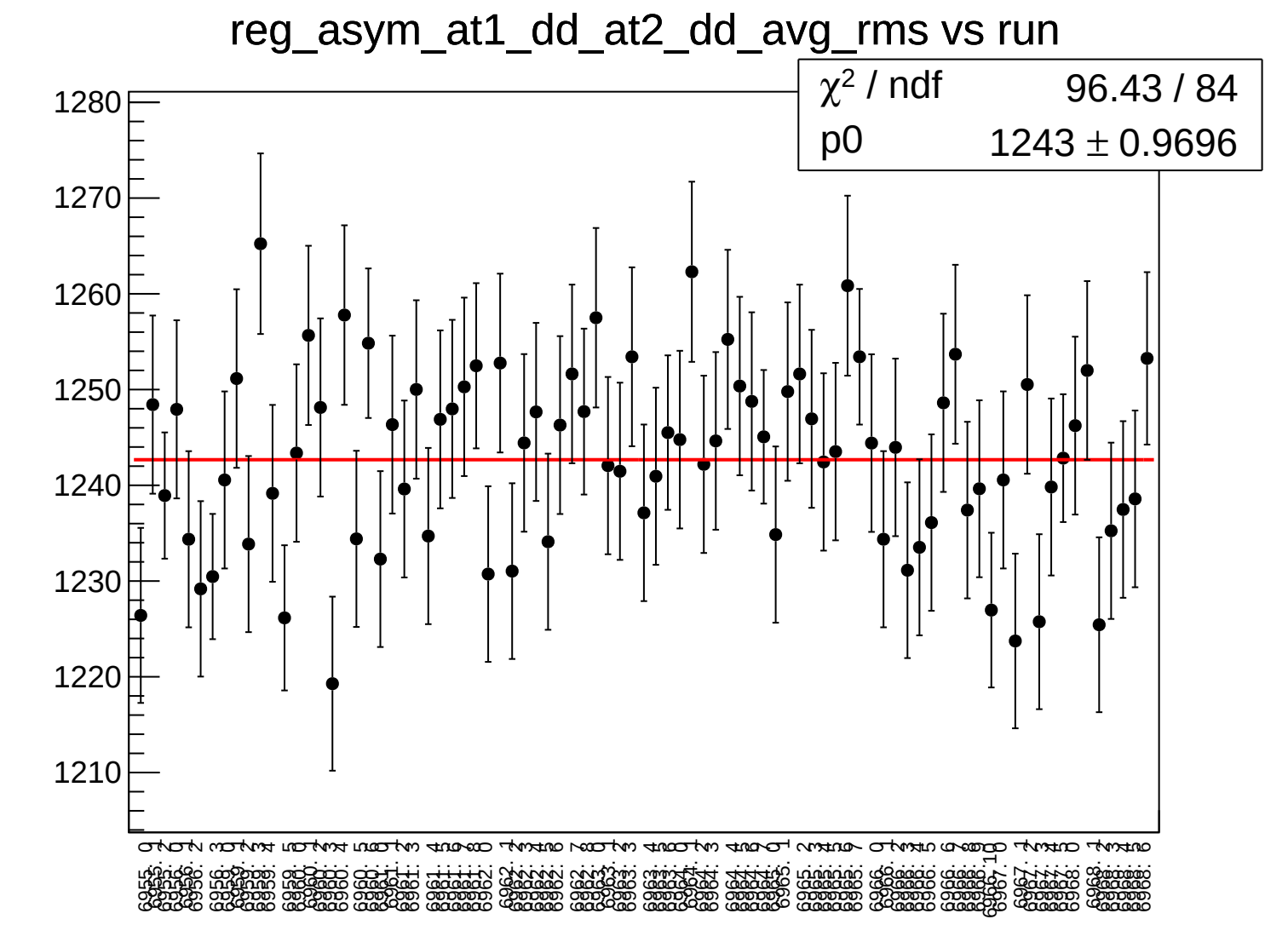

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 69.73 / 84
p0 1.599e−14 ± 9.561e−15
pull
Entries 85
Mean 30.68
Std Dev 32.19

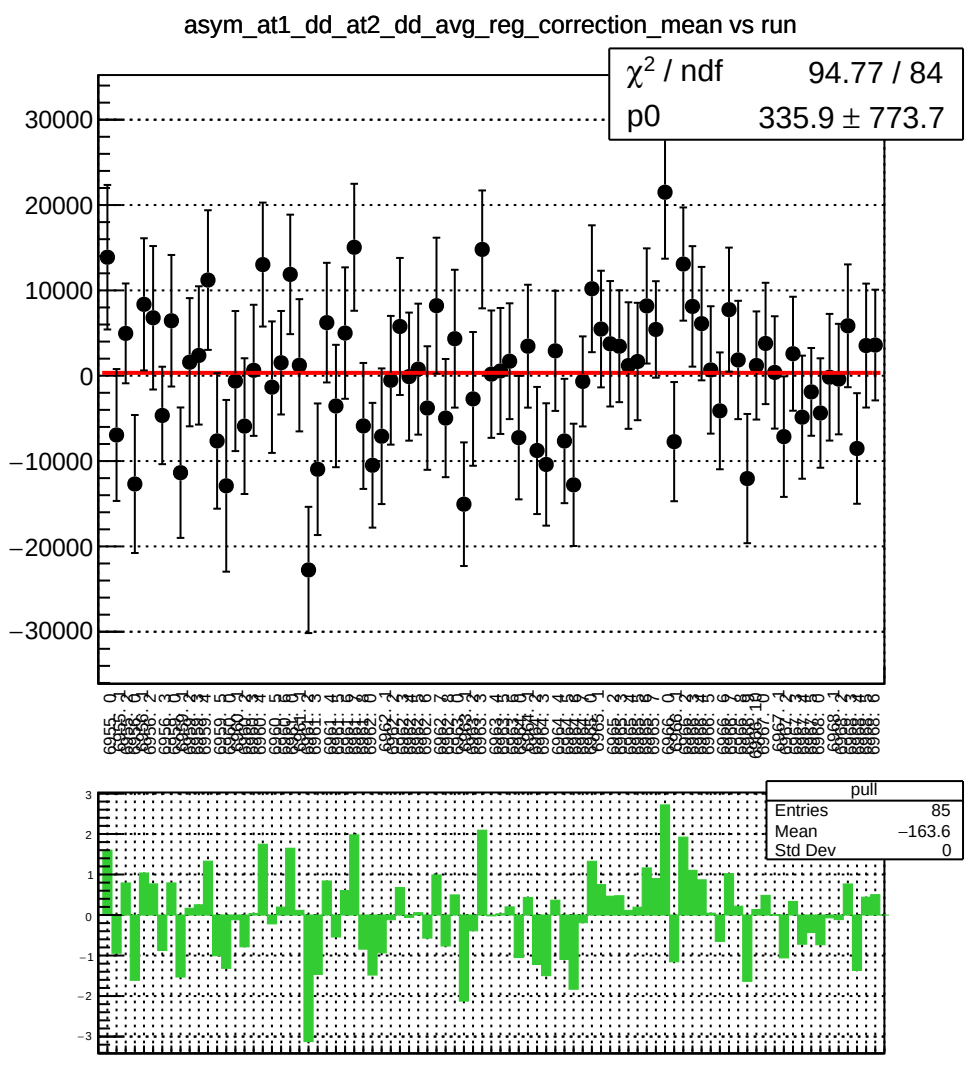

pull1D
Entries 85
Mean −0.01567
Std Dev 0.9056

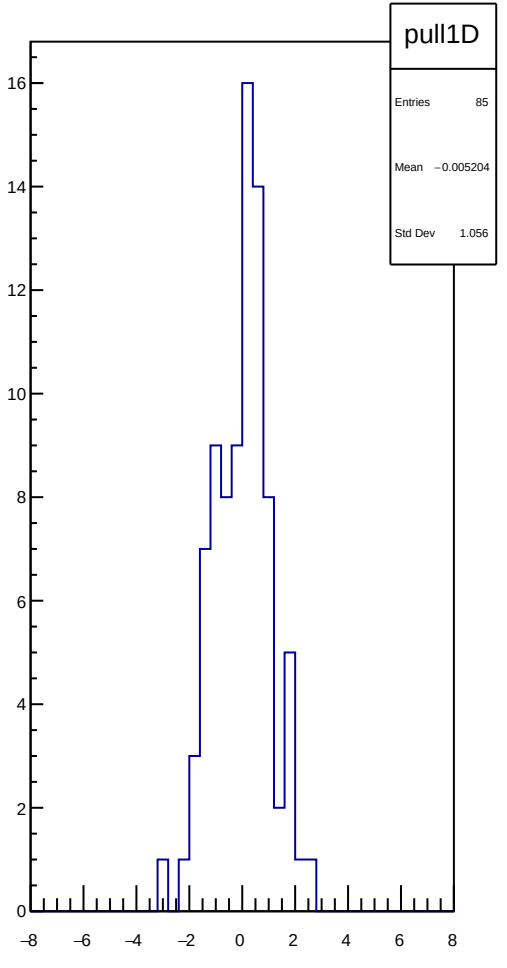

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 3.673e+05 / 84
p0 7.635e−12 ± 6.761e−15

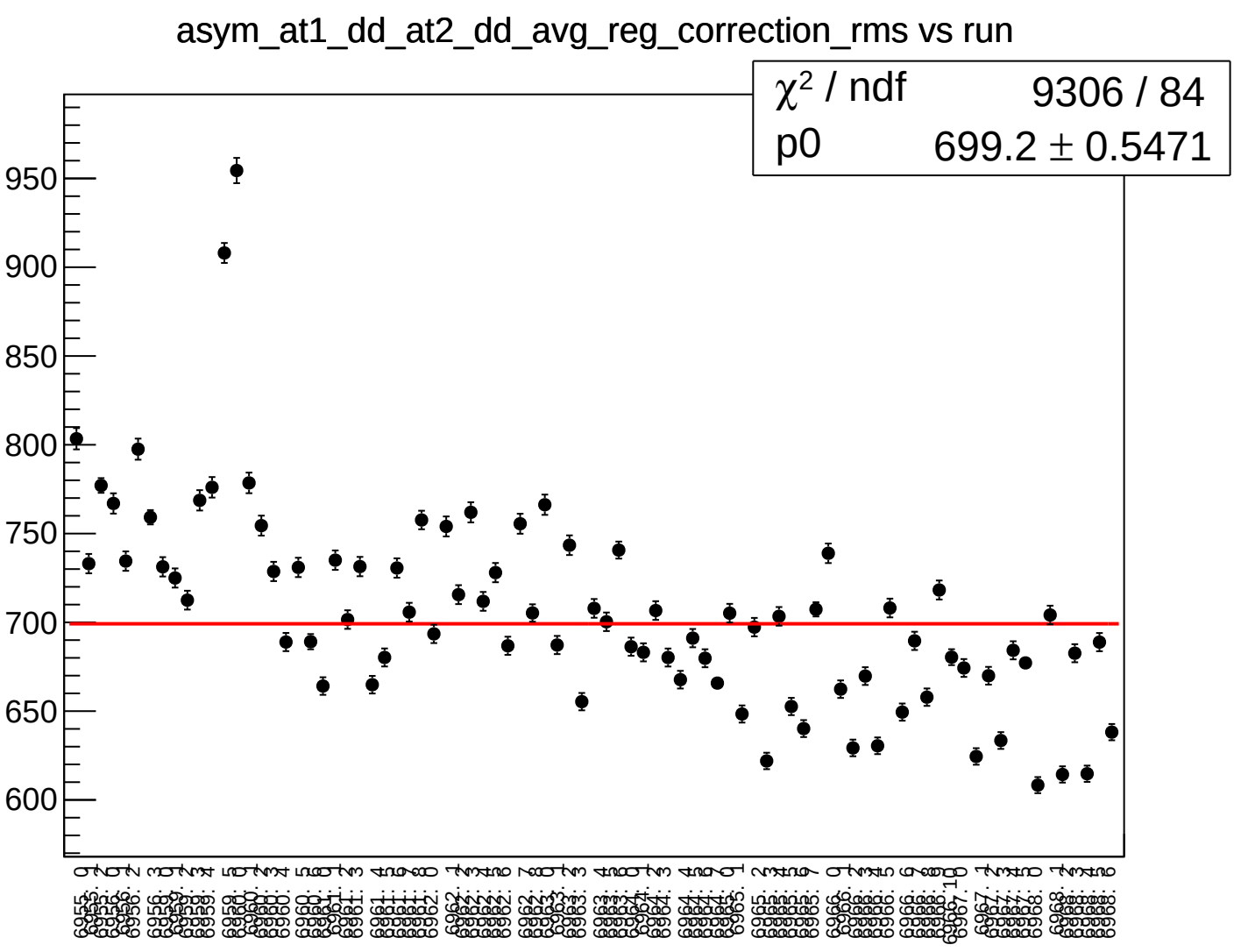

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 116.2 / 84
p0 618.1 ± 1371
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −87.19
Std Dev 0
3
2
1
0
−1
−2
−3

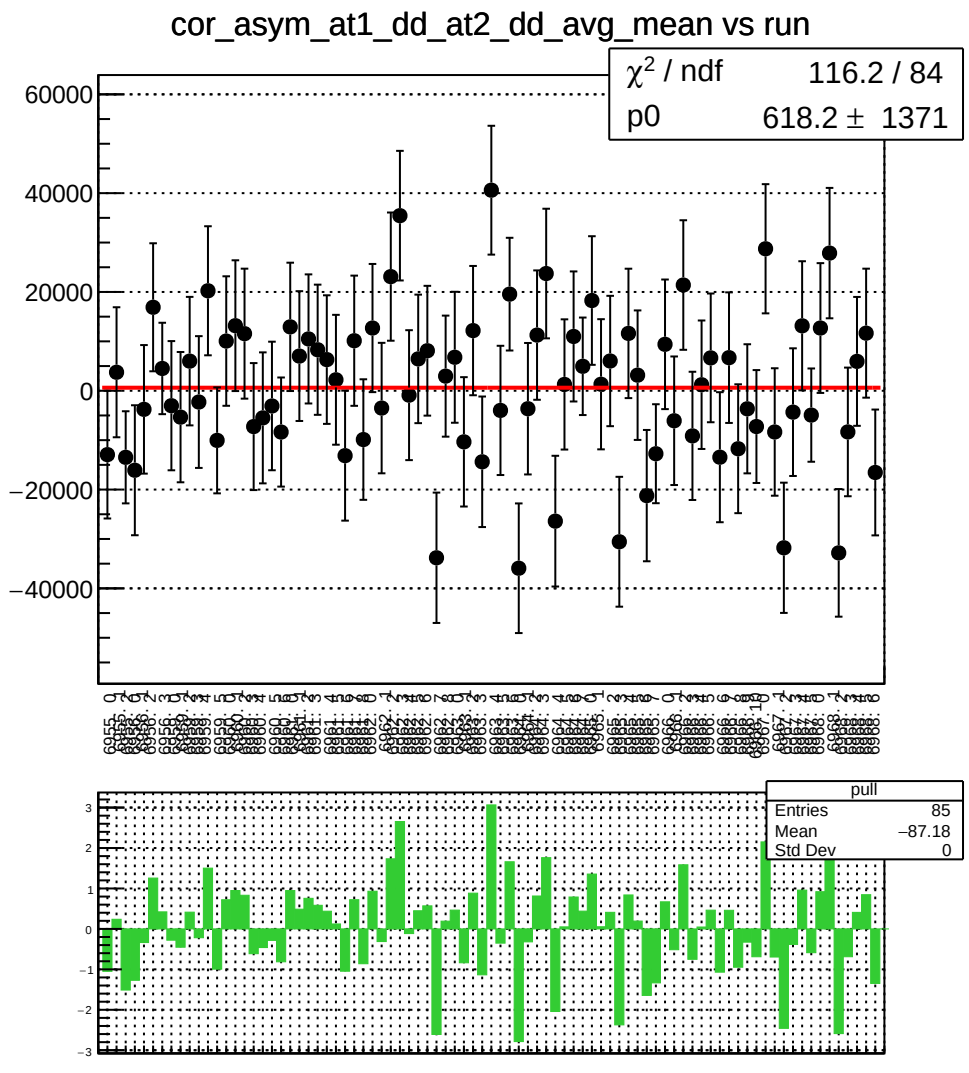

pull1D
Entries 85
Mean 0.01393
Std Dev 1.169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

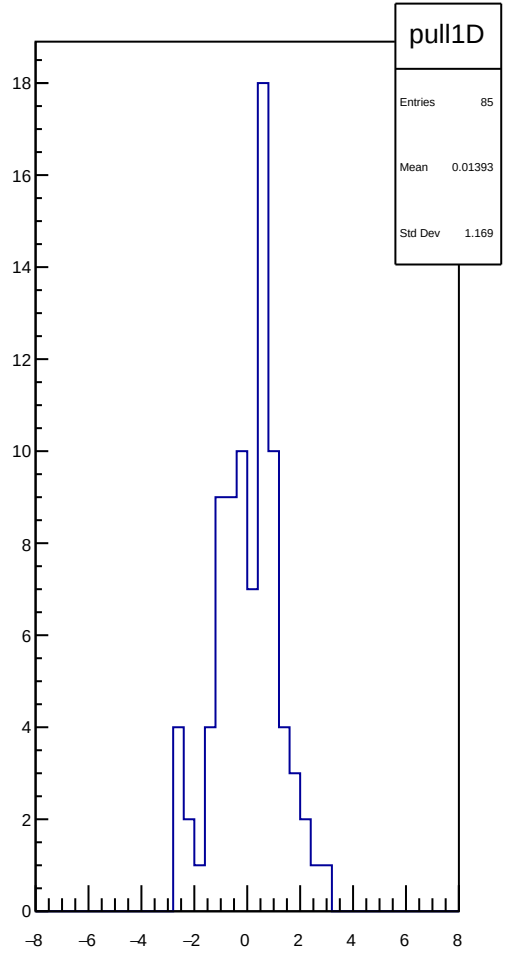

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 96.43 / 84
p0 1243 ± 0.9696
1280
1270
1260
1250
1240
1230
1220
1210

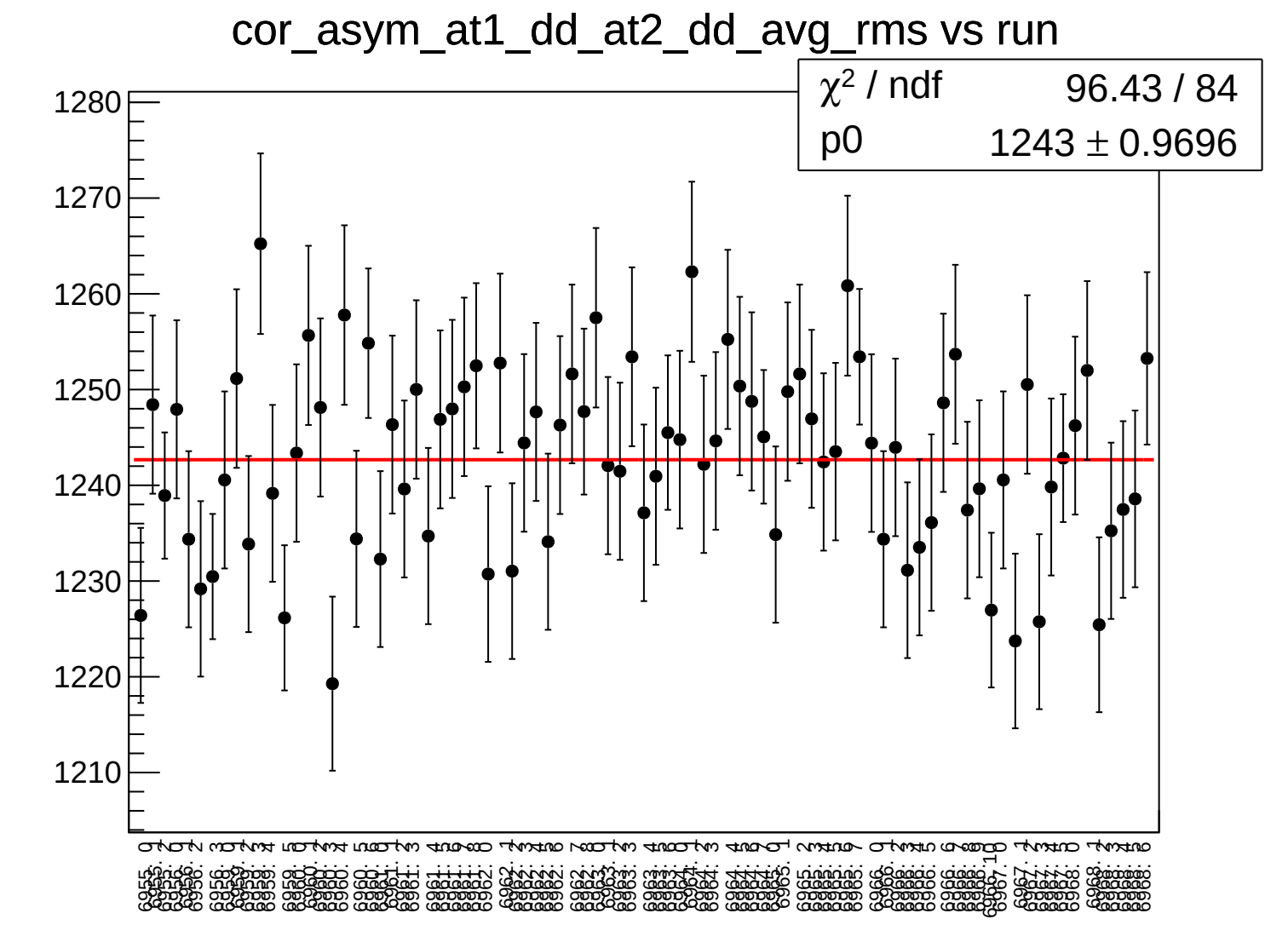

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 94.77 / 84
p0 335.9 ± 773.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −163.6
Std Dev 0
3
2
1
0
−1
−2
−3

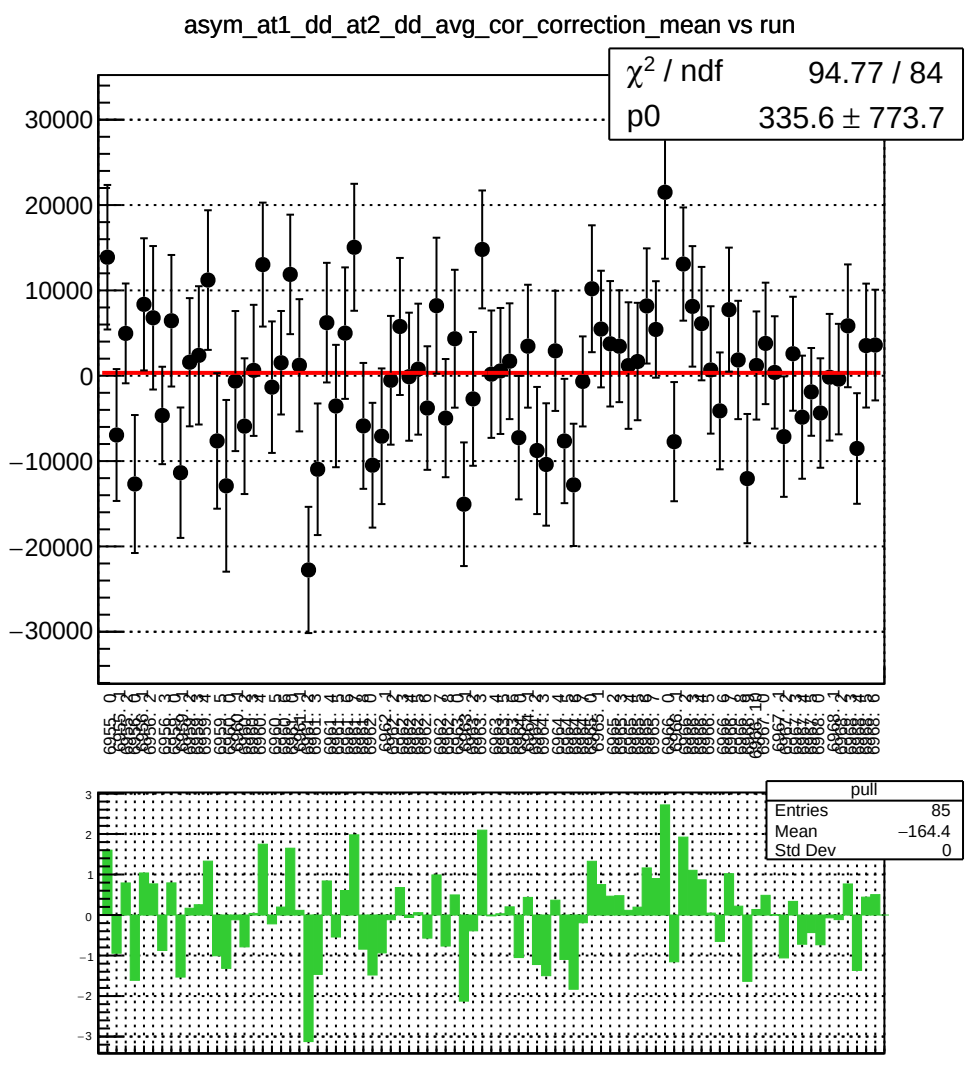

pull1D
Entries 85
Mean −0.005204
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

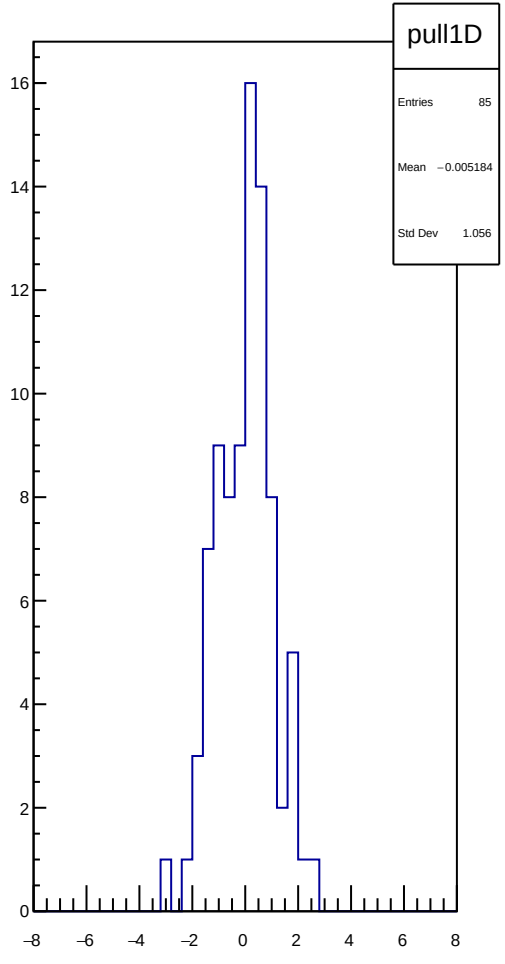

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 9306 / 84
p0 699.2 ± 0.5471
950
900
850
800
750
700
650
600

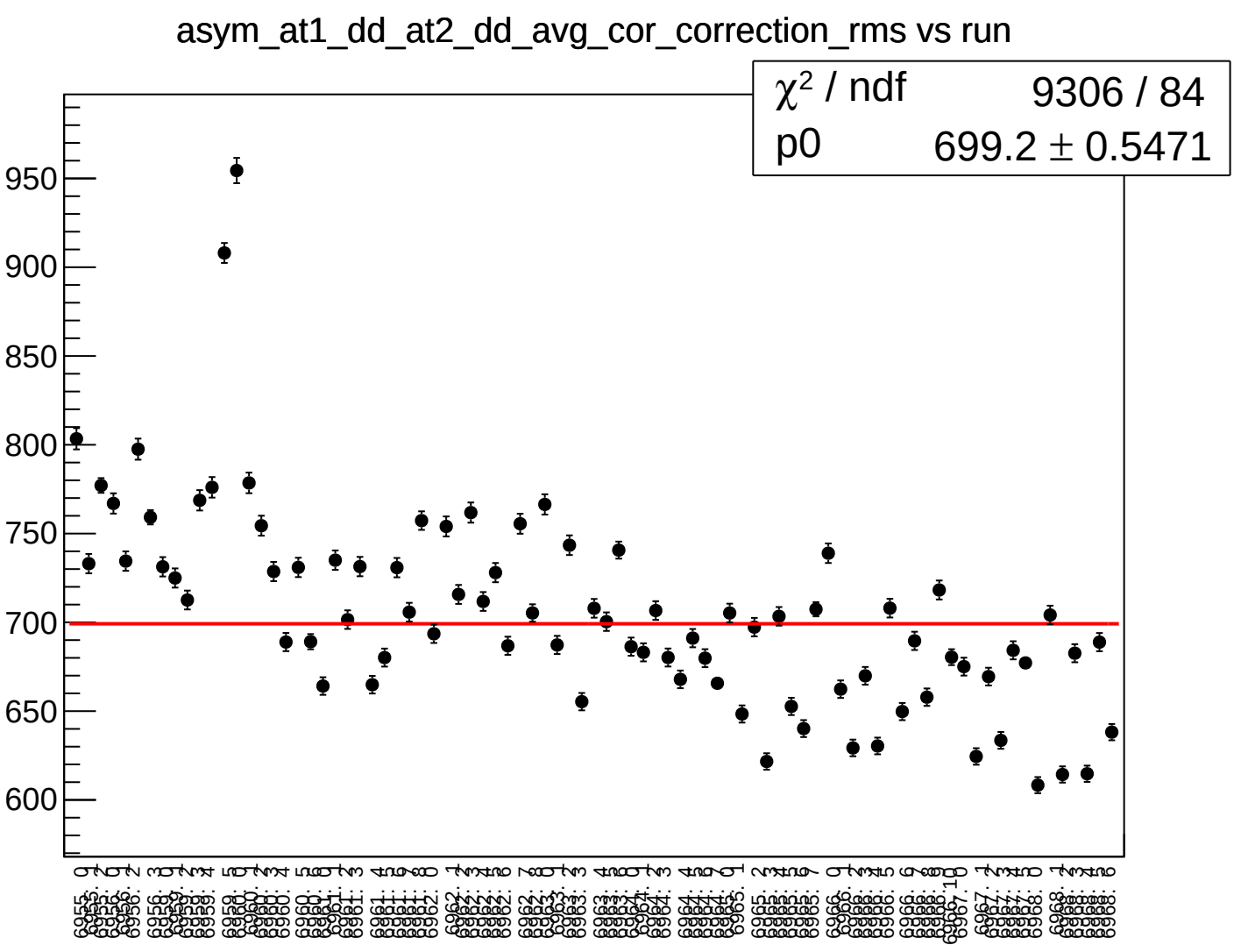

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 116.2 / 84
p0 618.2 ± 1371
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −87.18
Std Dev 0
3
2
1
0
−1
−2
−3

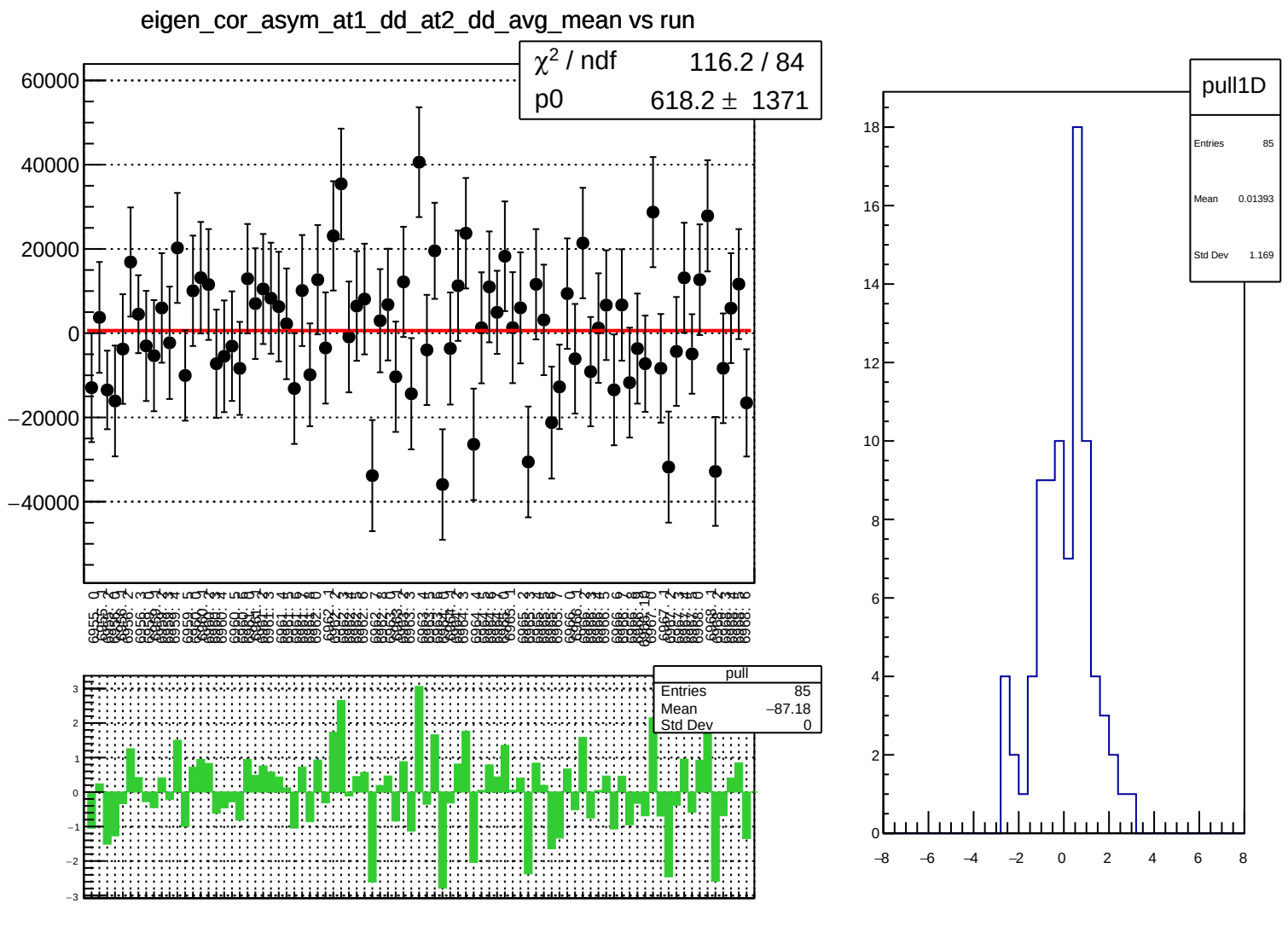

pull1D
Entries 85
Mean 0.01393
Std Dev 1.169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

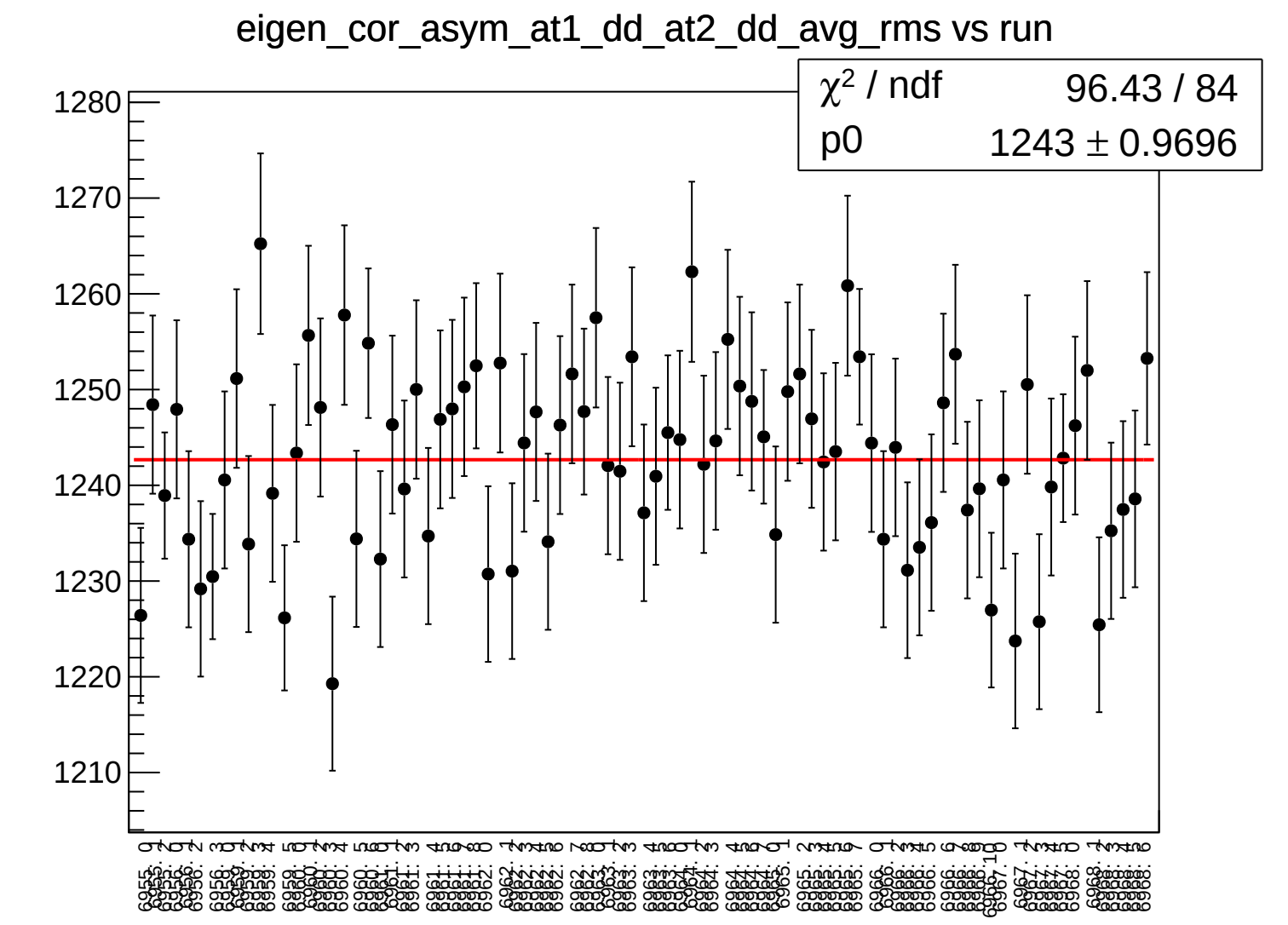

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 96.43 / 84
p0 1243 ± 0.9696
1280
1270
1260
1250
1240
1230
1220
1210

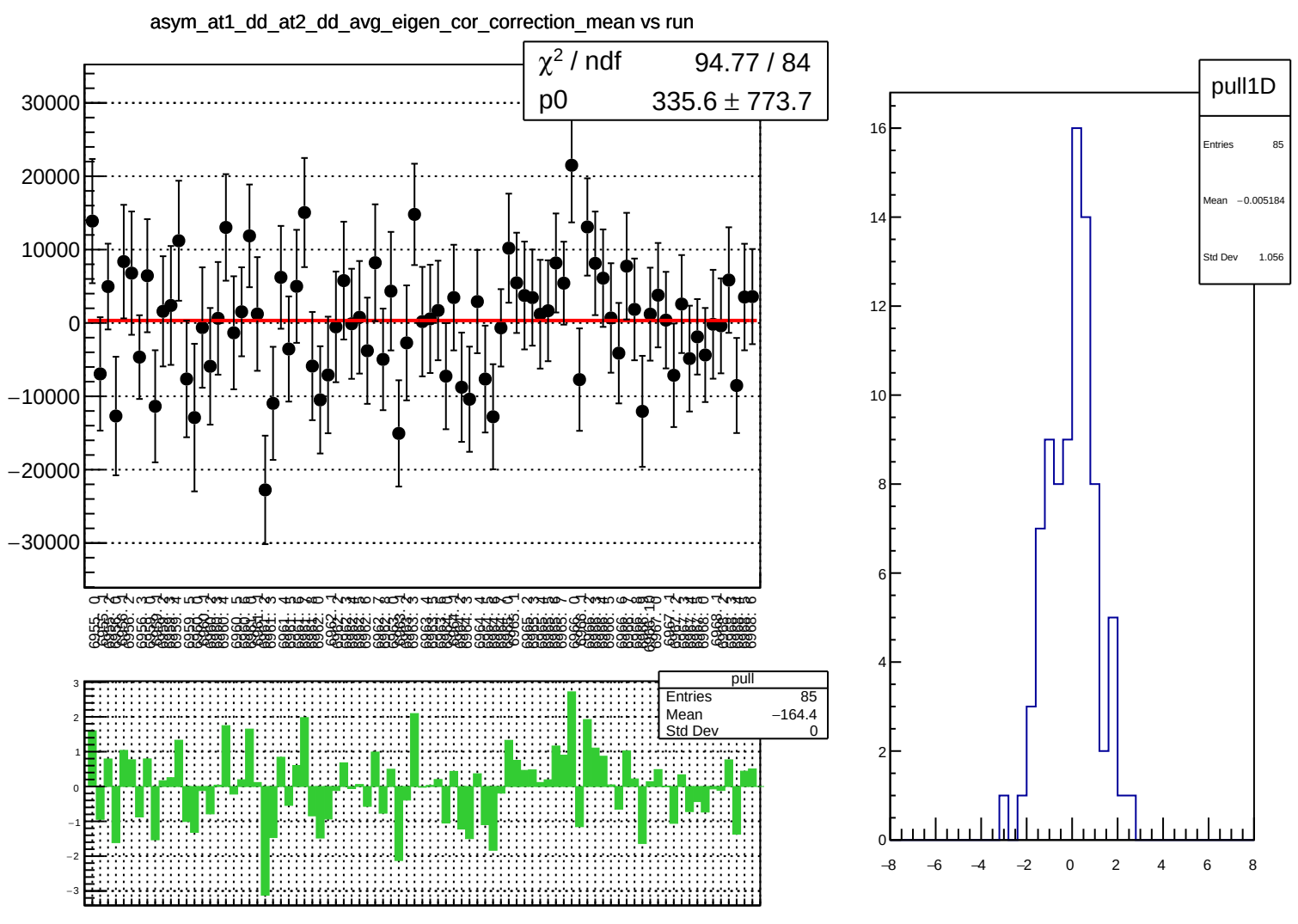

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 94.77 / 84
p0 335.6 ± 773.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −164.4
Std Dev 0
3
2
1
0
−1
−2
−3

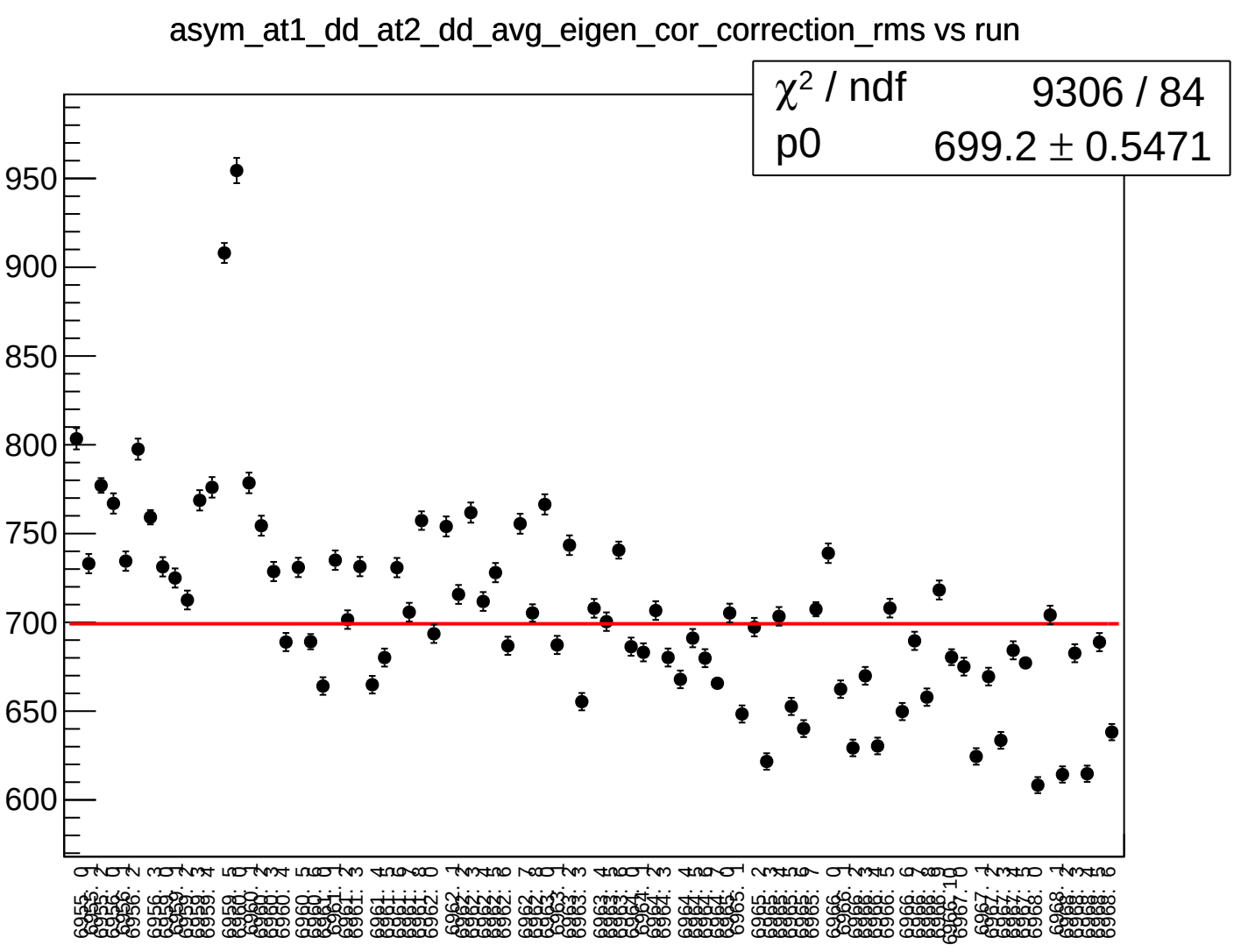

pull1D
Entries 85
Mean −0.005184
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

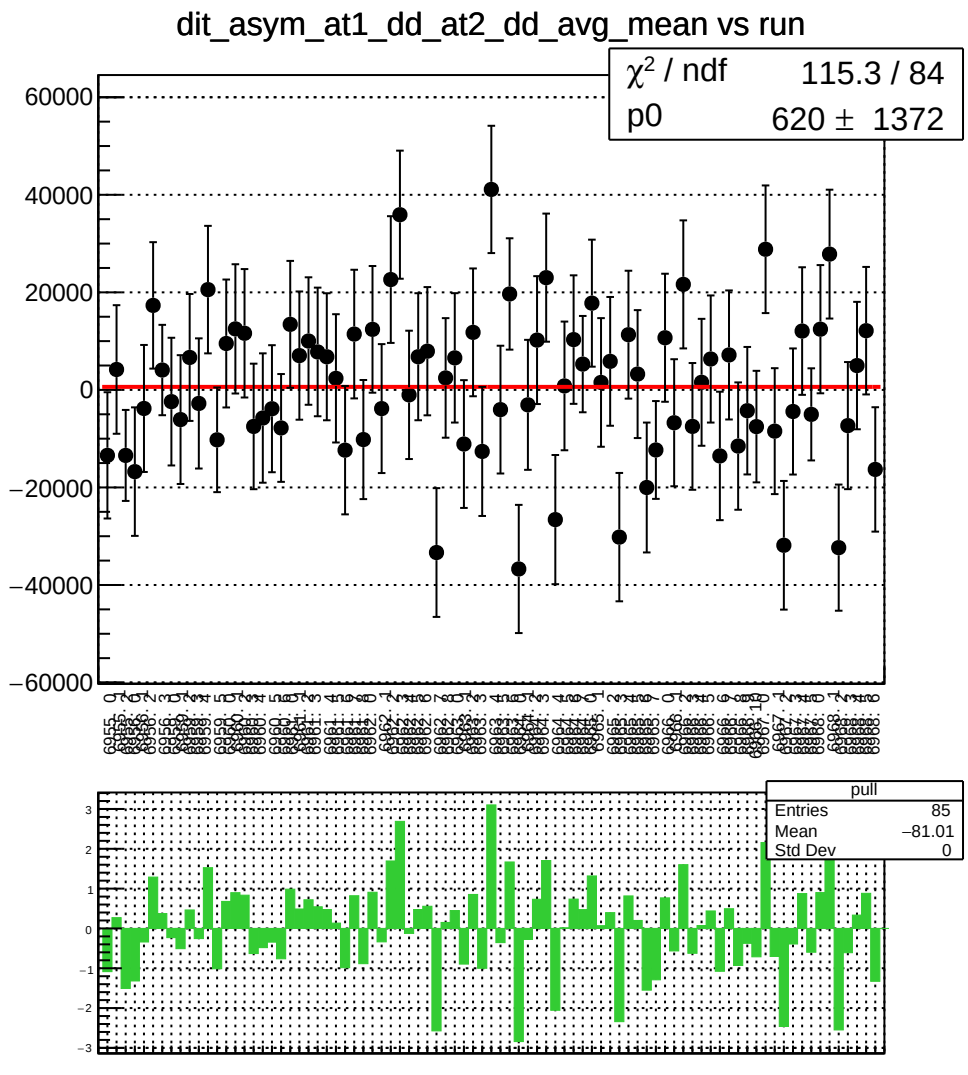

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 9306 / 84
p0 699.2 ± 0.5471
950
900
850
800
750
700
650
600

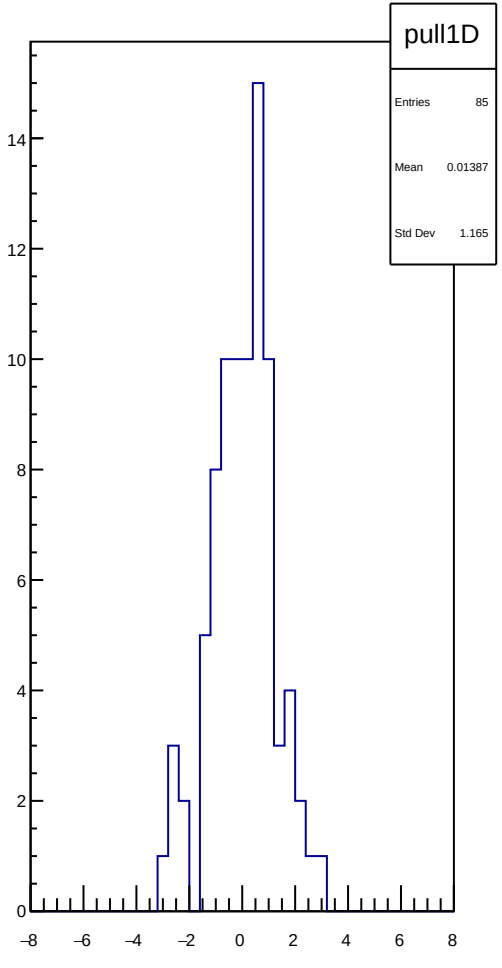

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 116.2 / 84
p0 618.2 ± 1371
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −87.18
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.01393
Std Dev 1.169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

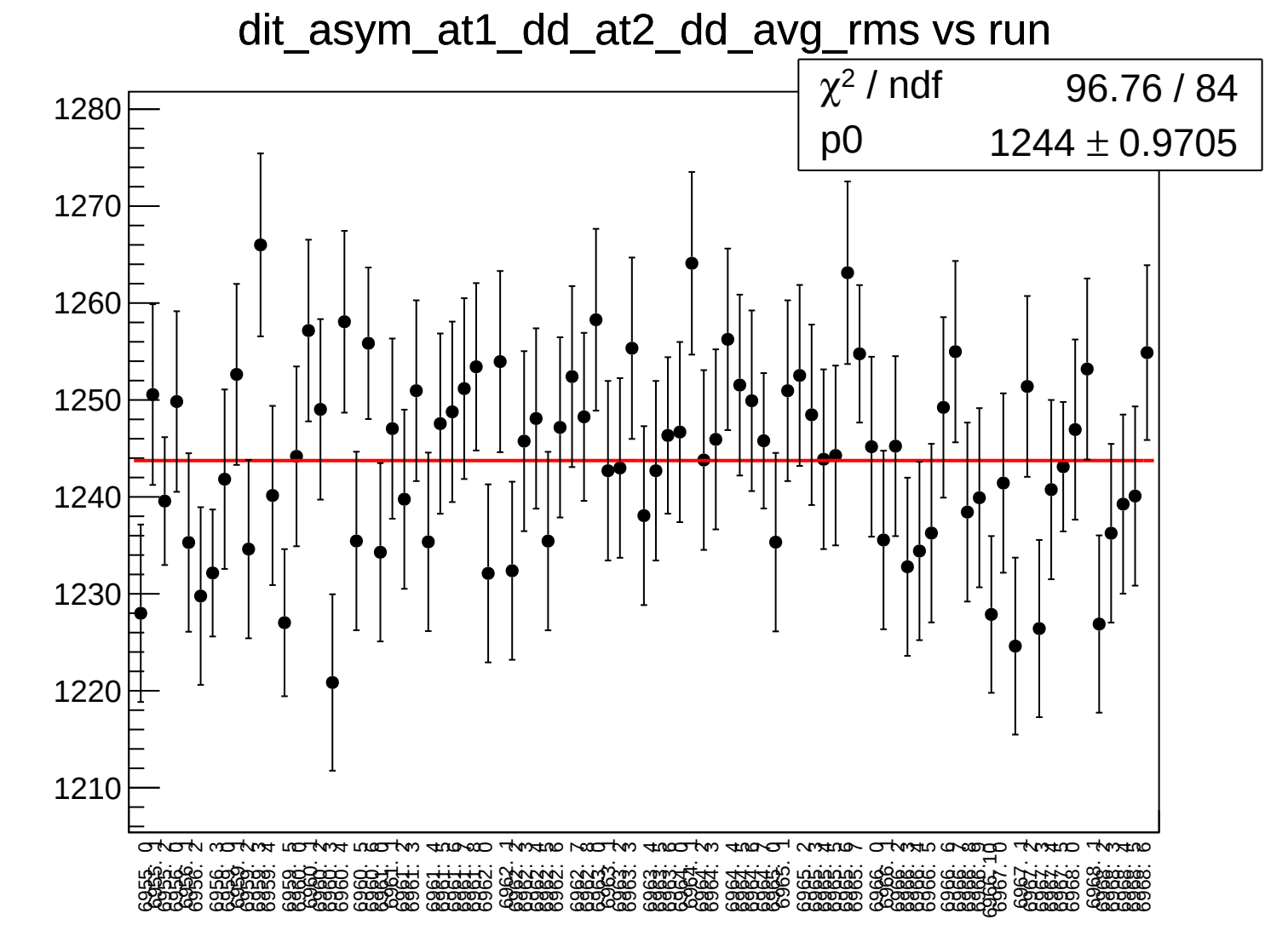

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 96.43 / 84
p0 1243 ± 0.9696
1280
1270
1260
1250
1240
1230
1220
1210

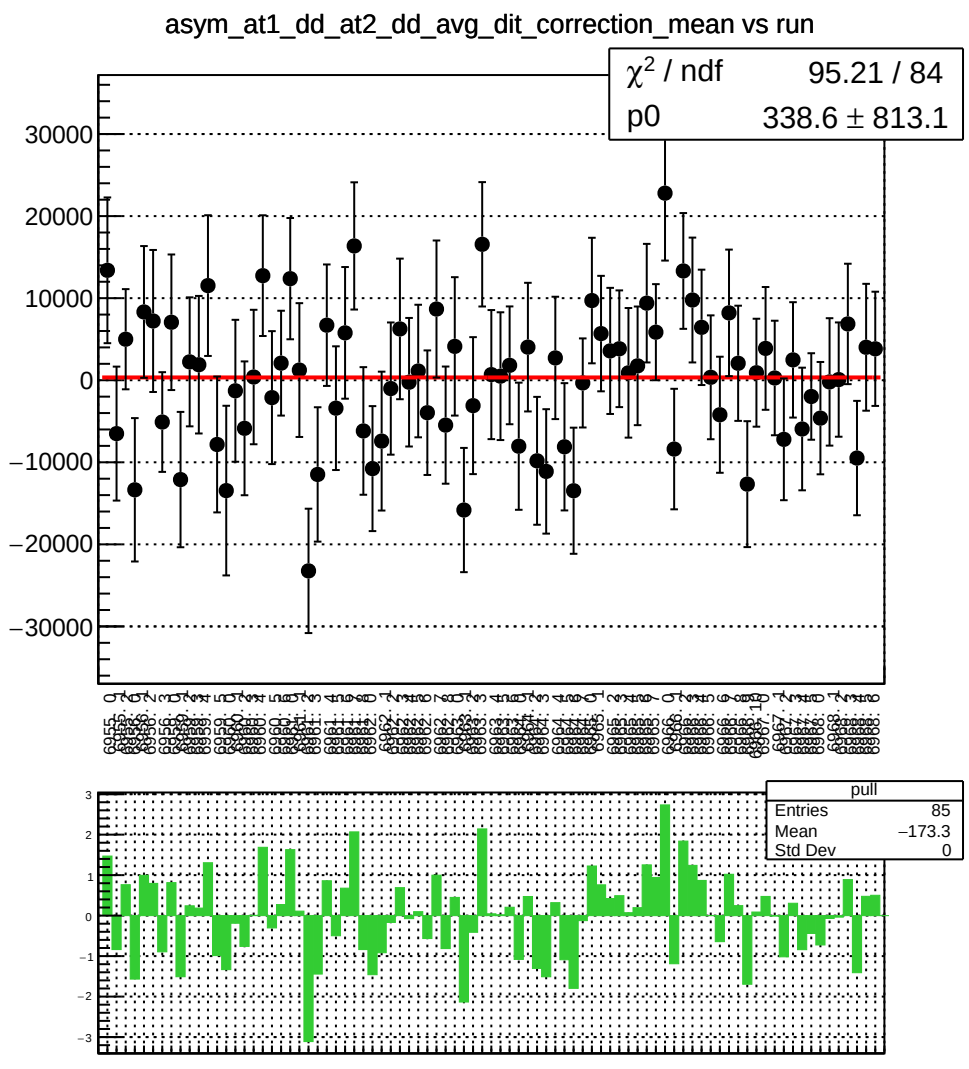

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.77 / 84
p0 335.6 ± 773.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −164.4
Std Dev 0
pull1D
Entries 85
Mean −0.005184
Std Dev 1.056

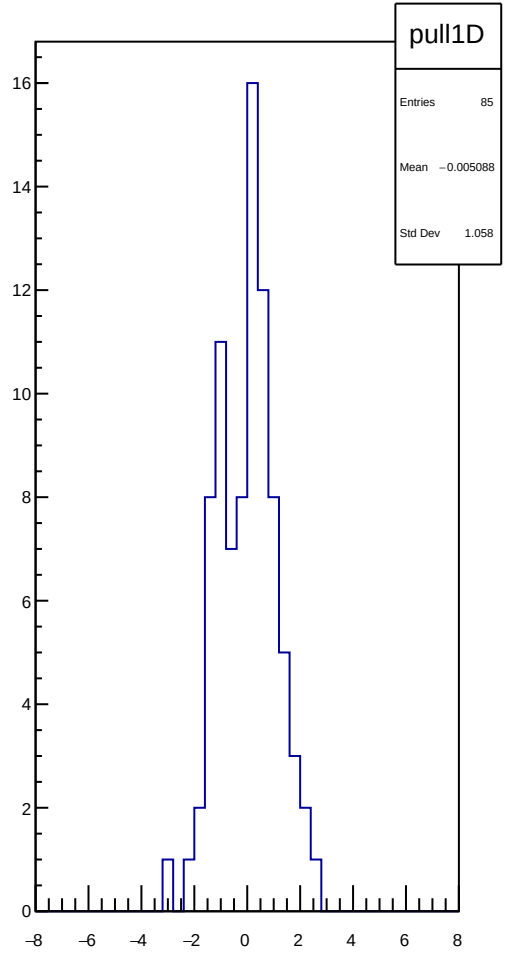

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9306 / 84
p0 699.2 ± 0.5471
950
900
850
800
750
700
650
600

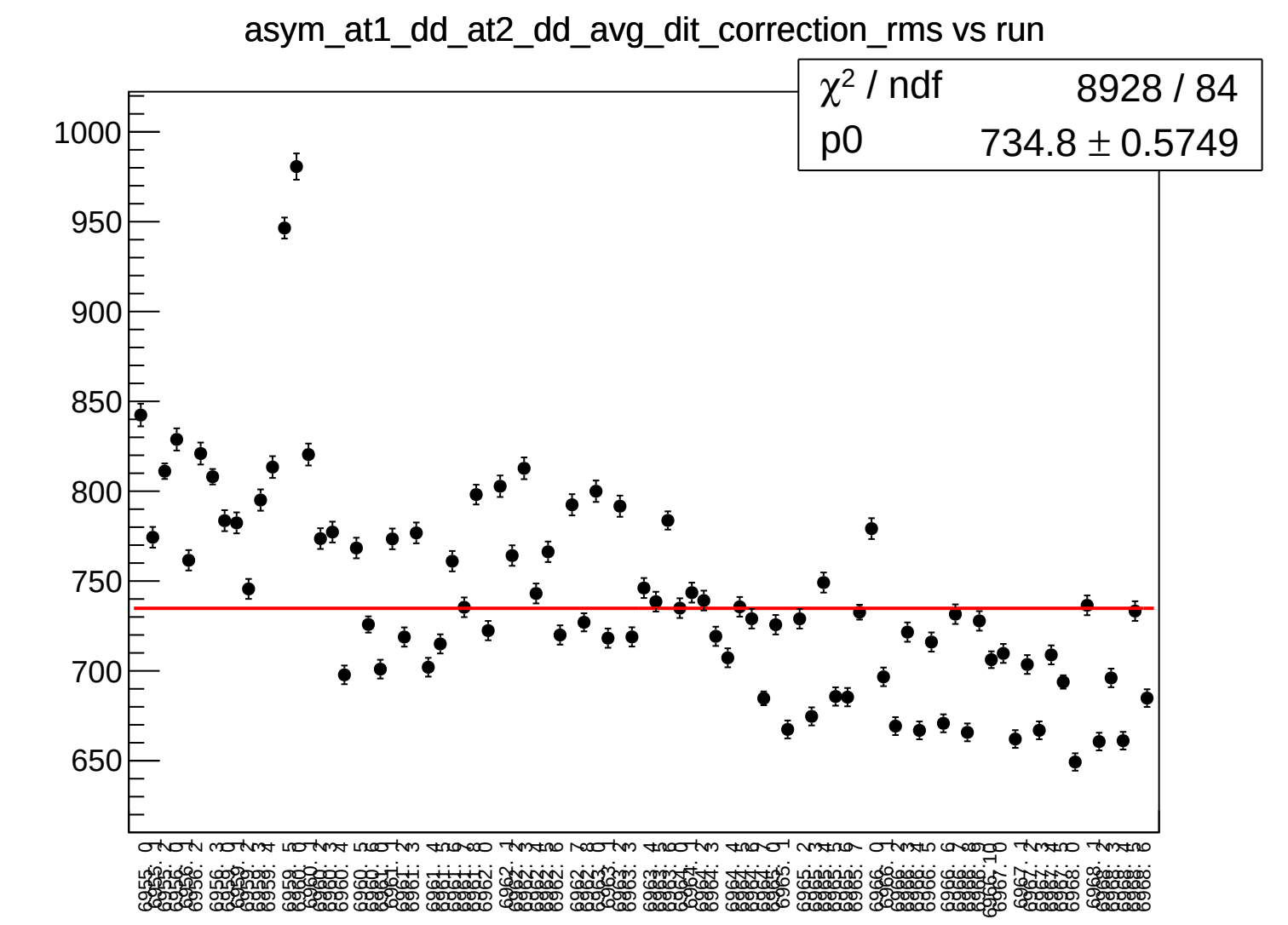

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 115.3 / 84
p0 620 ± 1372
pull
Entries 85
Mean −81.01
Std Dev 0

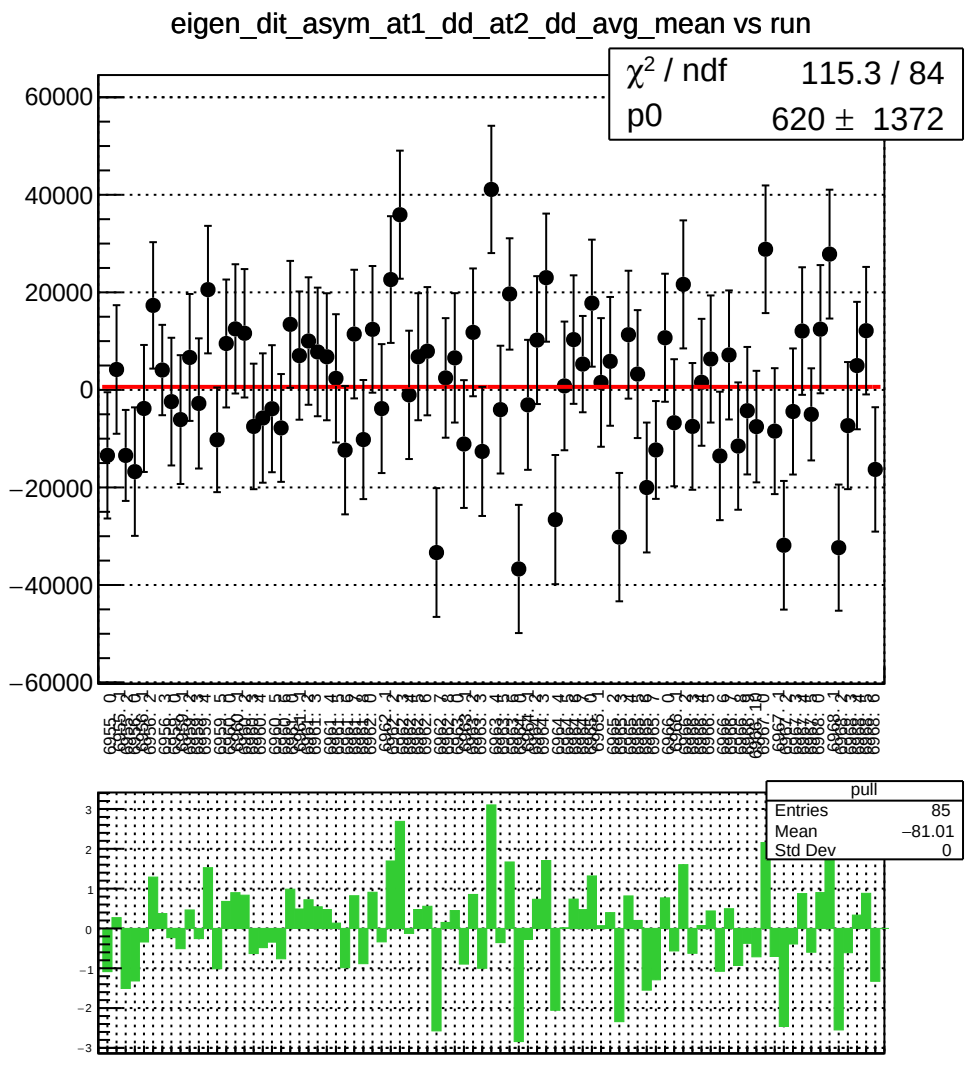

pull1D
Entries 85
Mean 0.01387
Std Dev 1.165

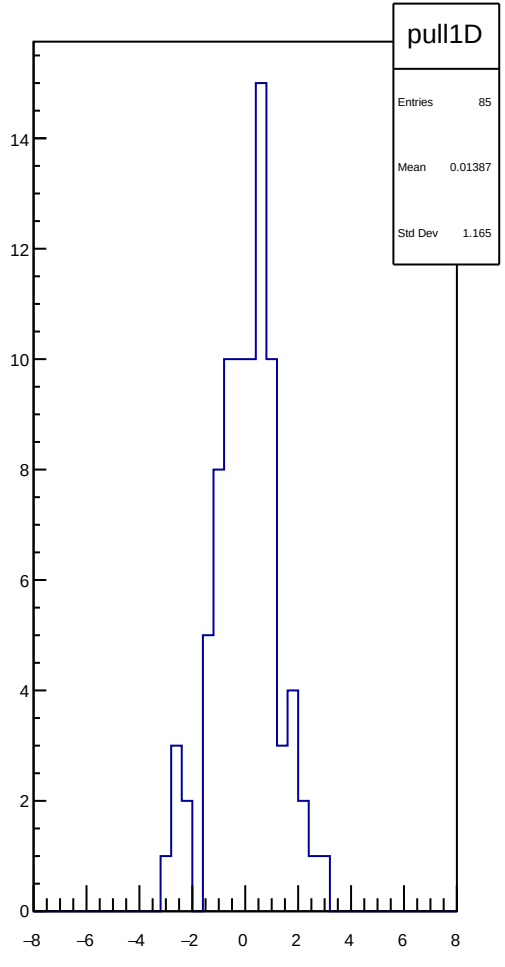

dit_asym_at1_dd_at2_dd_avg_rms vs run
$\chi^2$ / ndf 96.76 / 84
p0 1244 ± 0.9705
1280
1270
1260
1250
1240
1230
1220
1210

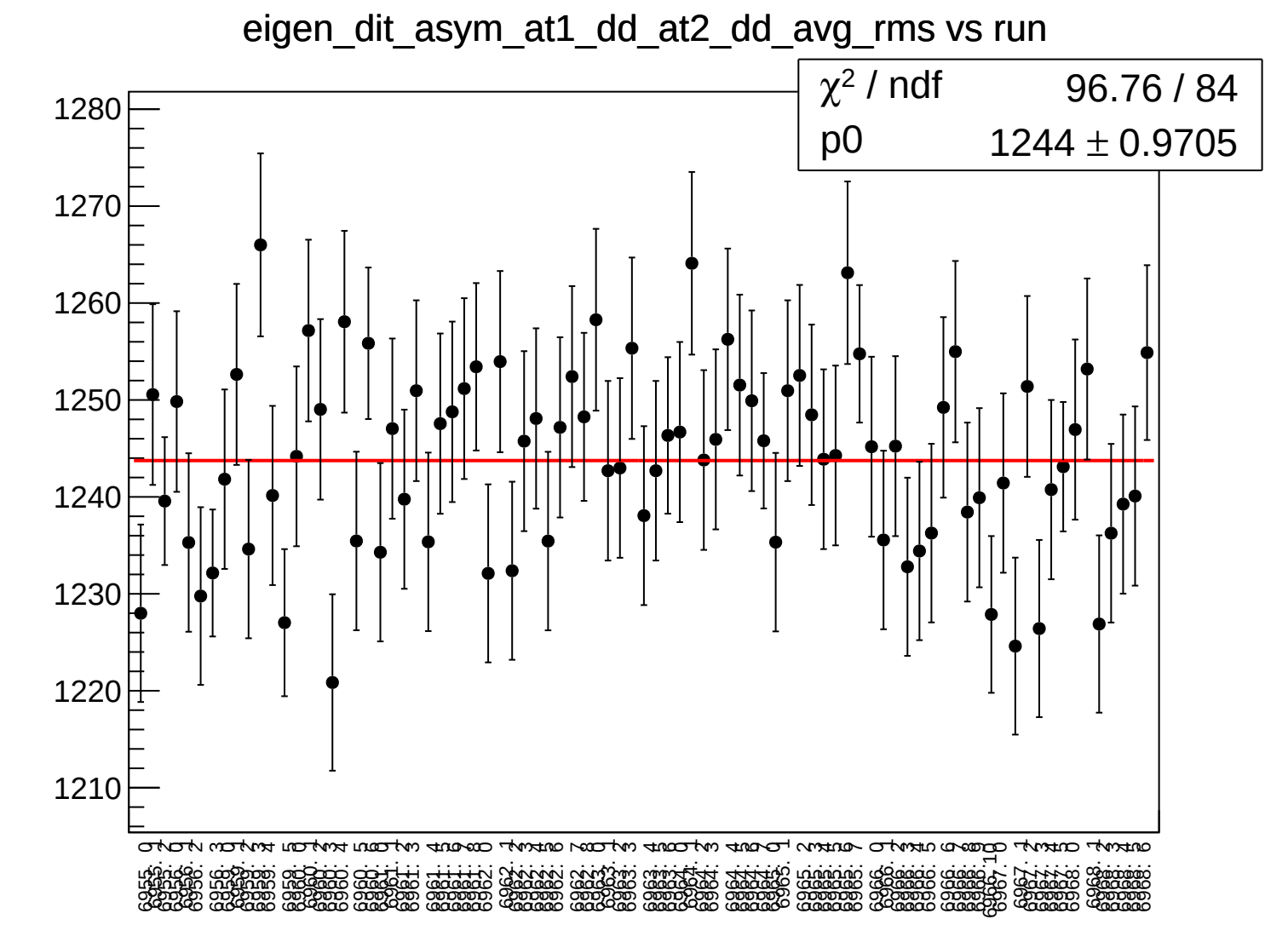

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 95.21 / 84
p0 338.6 ± 813.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −173.3
Std Dev 0
3
2
1
0
−1
−2
−3

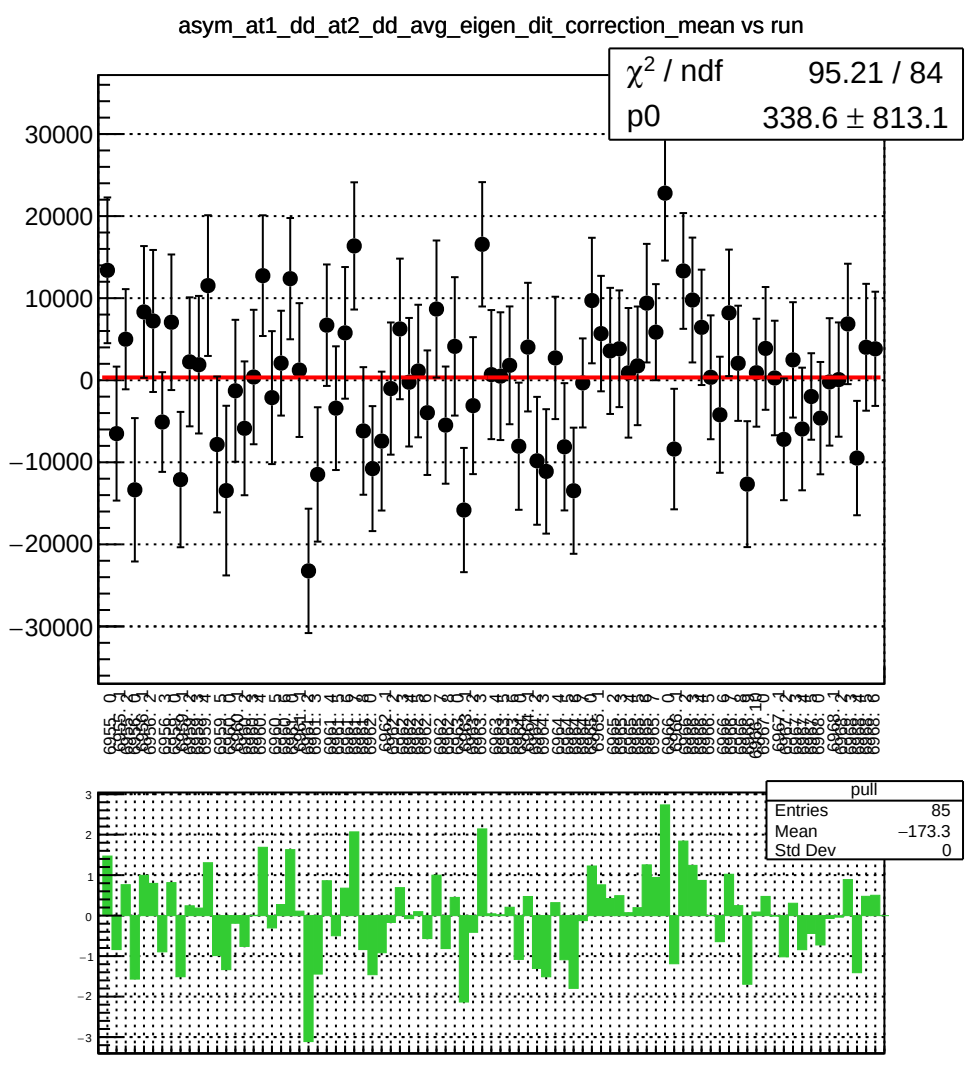

pull1D
Entries 85
Mean −0.005088
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

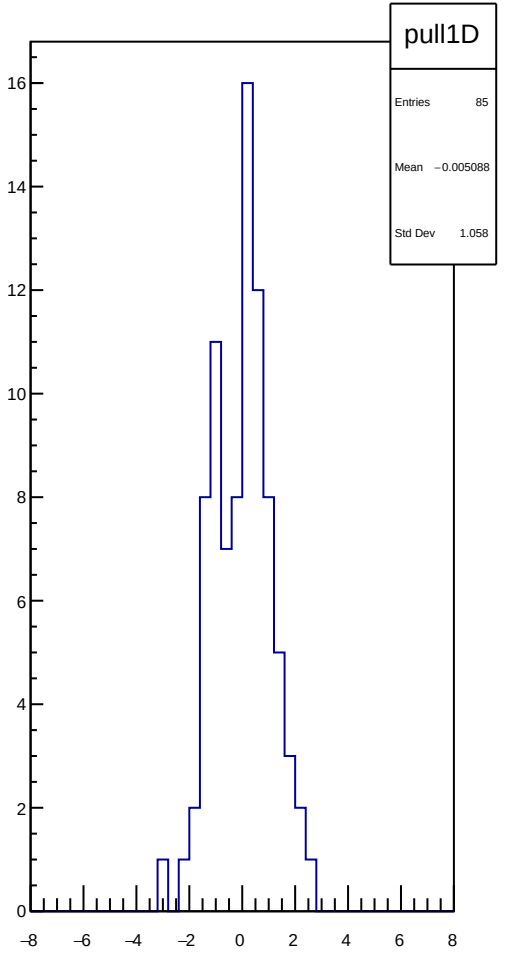

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 8928 / 84
p0 734.8 ± 0.5749
1000
950
900
850
800
750
700
650

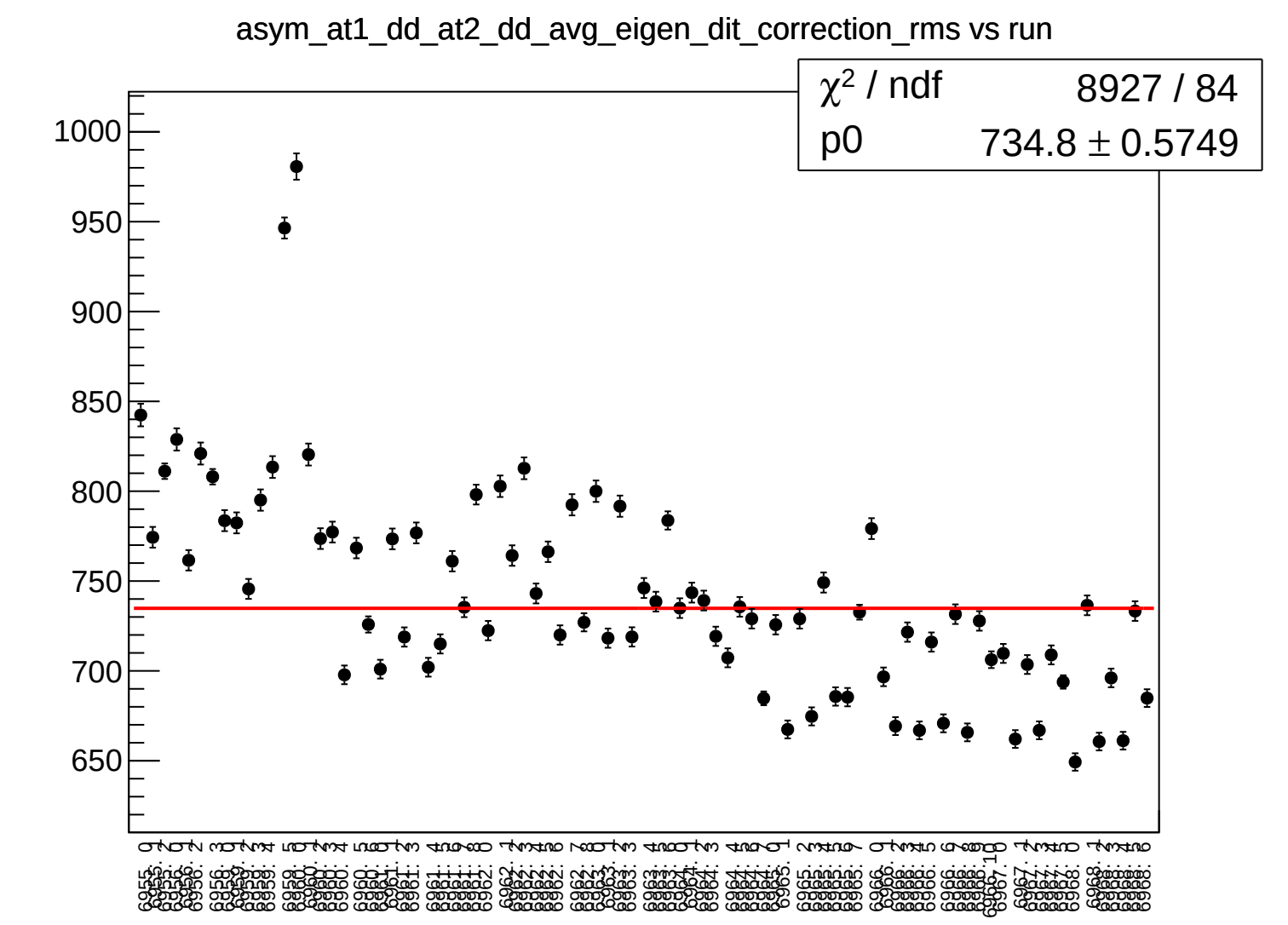

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 115.3 / 84
p0 620 ± 1372
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −81.01
Std Dev 0
3
2
1
0
−1
−2
−3

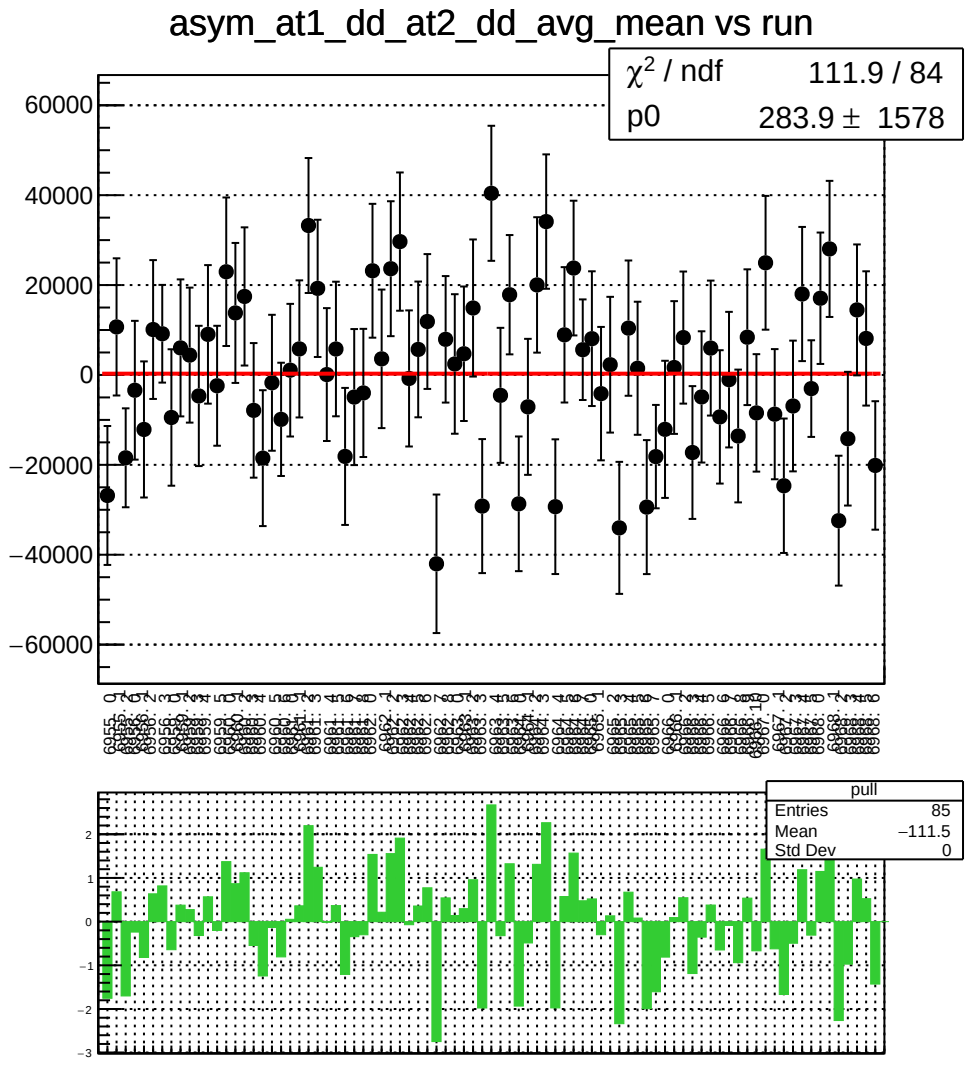

pull1D
Entries 85
Mean 0.01387
Std Dev 1.165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

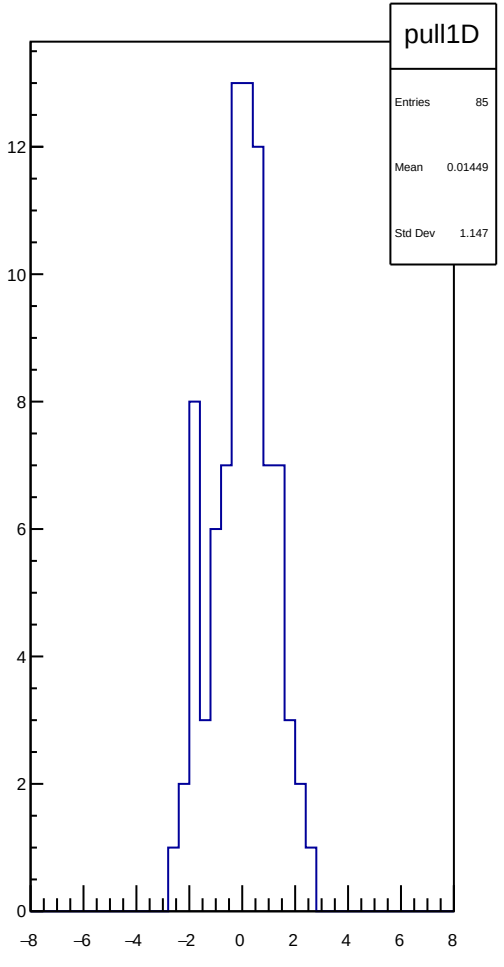

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 96.76 / 84
p0 1244 ± 0.9705
1280
1270
1260
1250
1240
1230
1220
1210

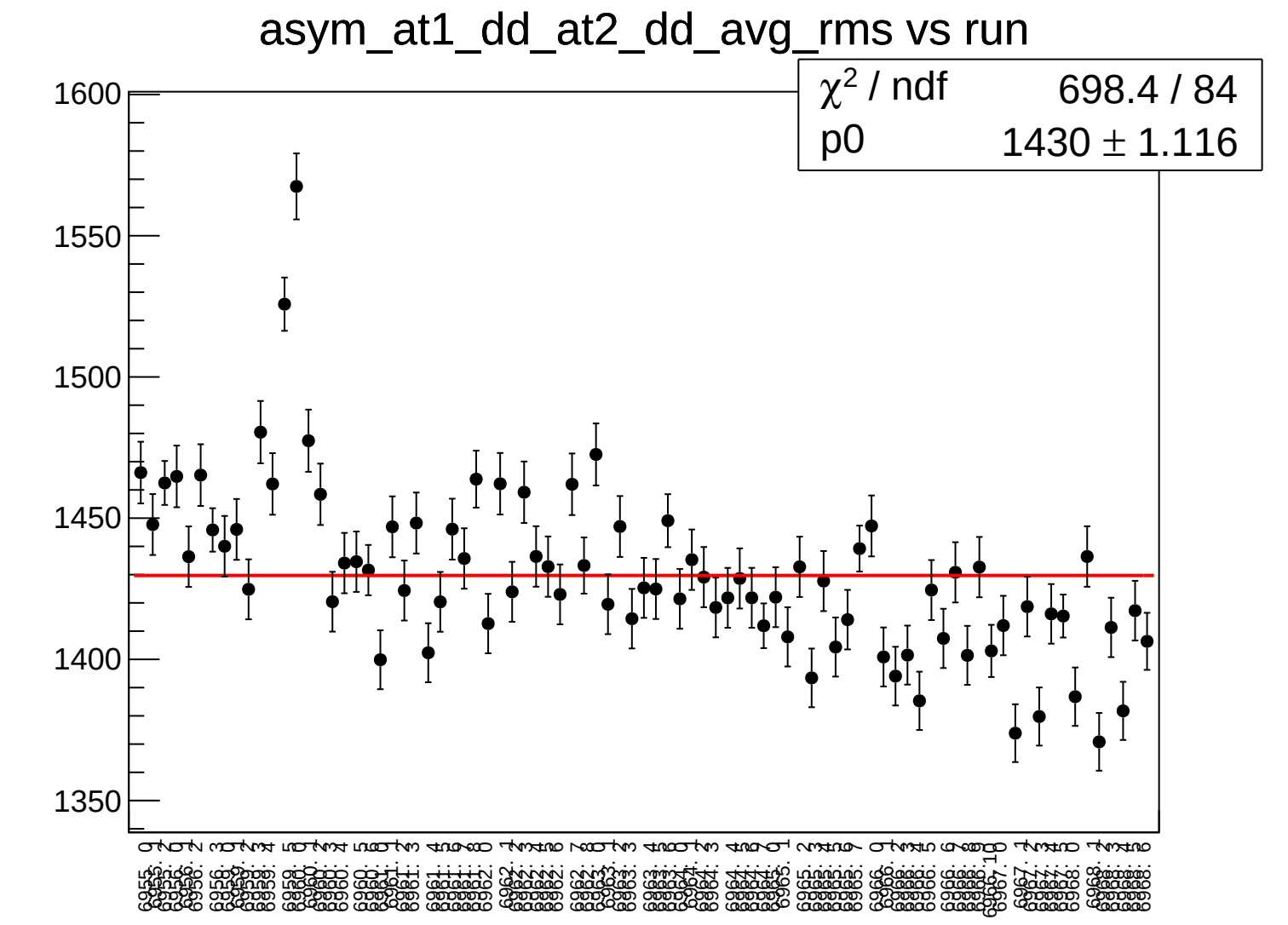

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.21 / 84
p0 338.6 ± 813.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −173.3
Std Dev 0
3
2
1
0
−1
−2
−3

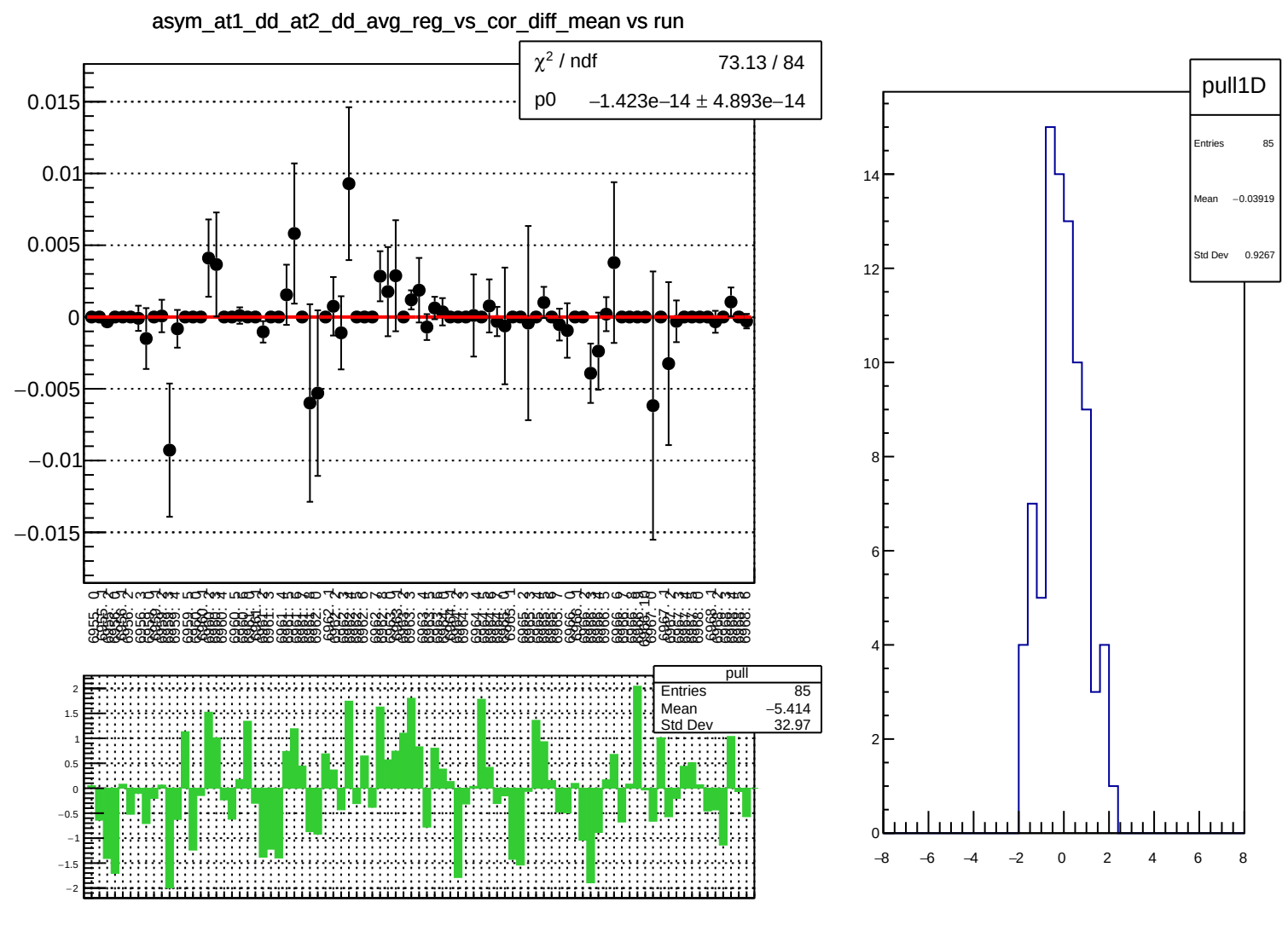

pull1D
Entries 85
Mean −0.005088
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

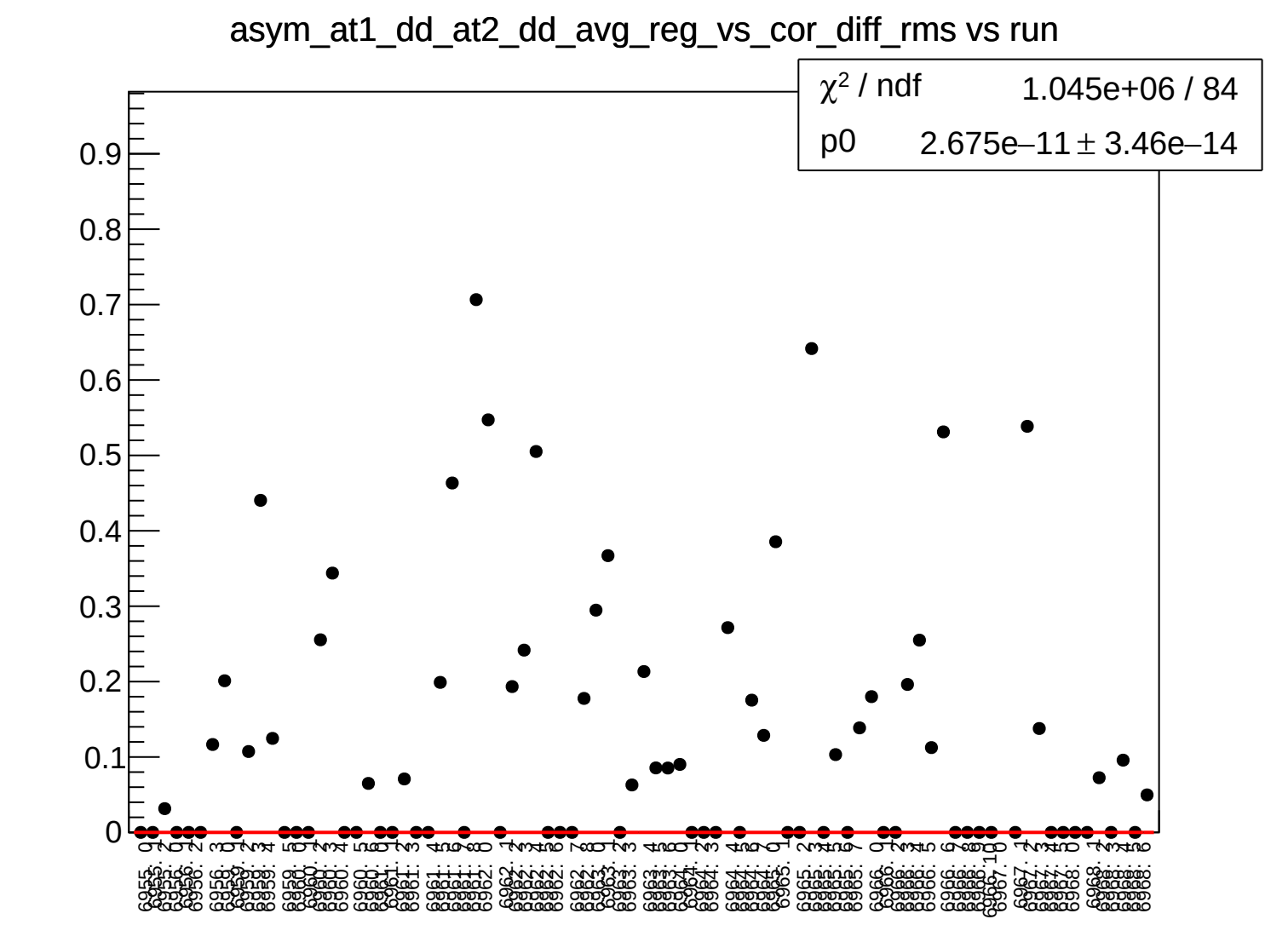

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 8927 / 84
p0 734.8 ± 0.5749
1000
950
900
850
800
750
700
650

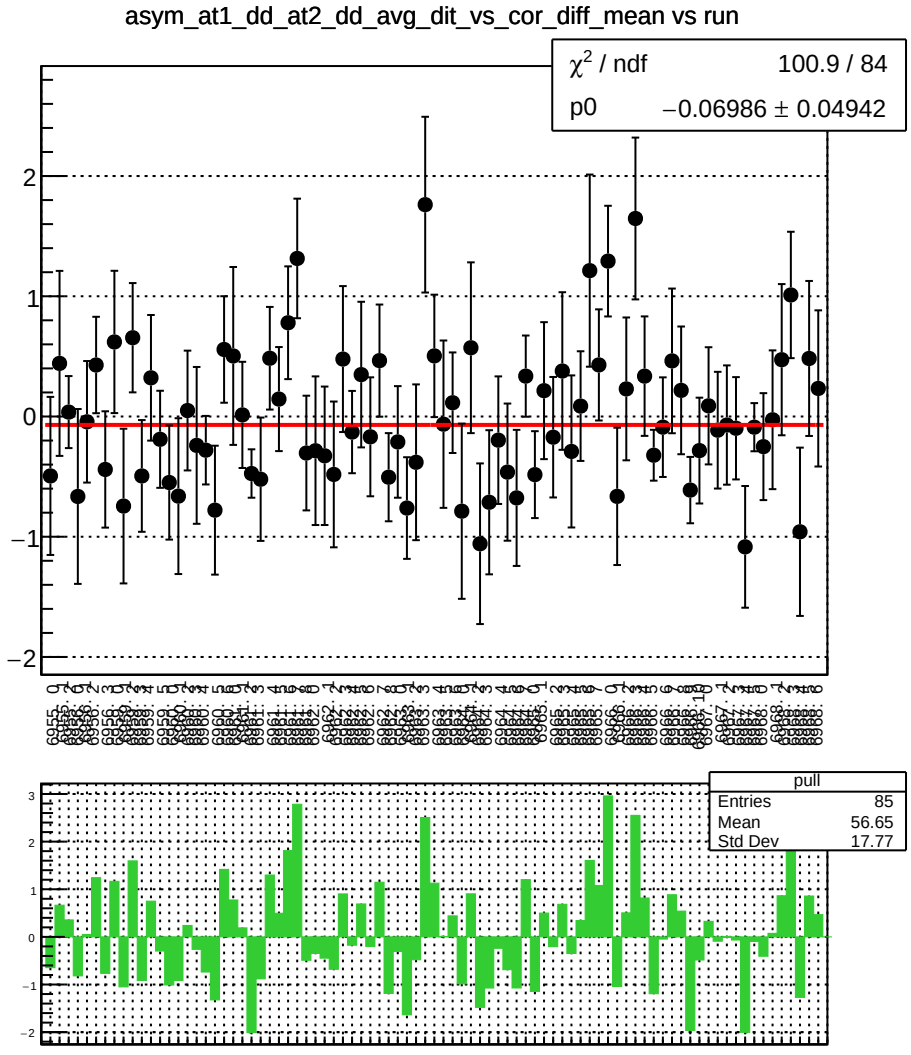

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 111.9 / 84
p0 283.9 ± 1578
pull
Entries 85
Mean −111.5
Std Dev 0

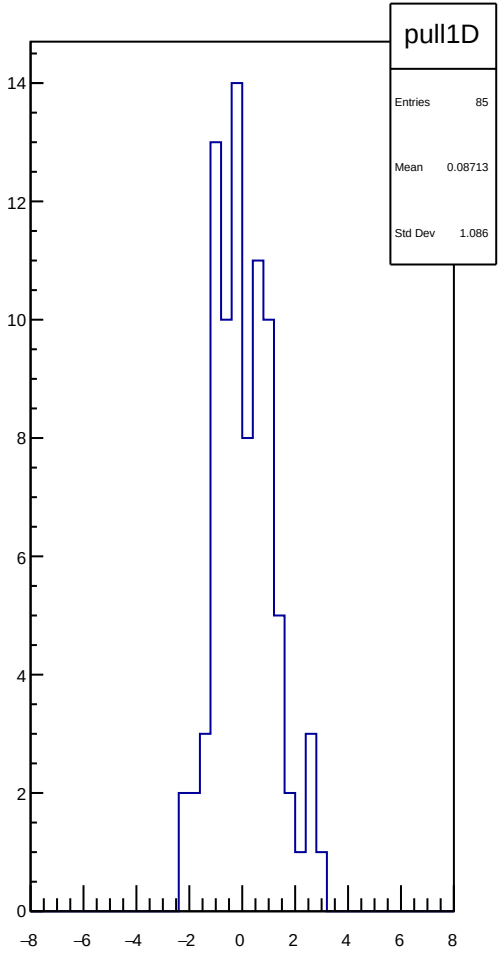

pull1D
Entries 85
Mean 0.01449
Std Dev 1.147

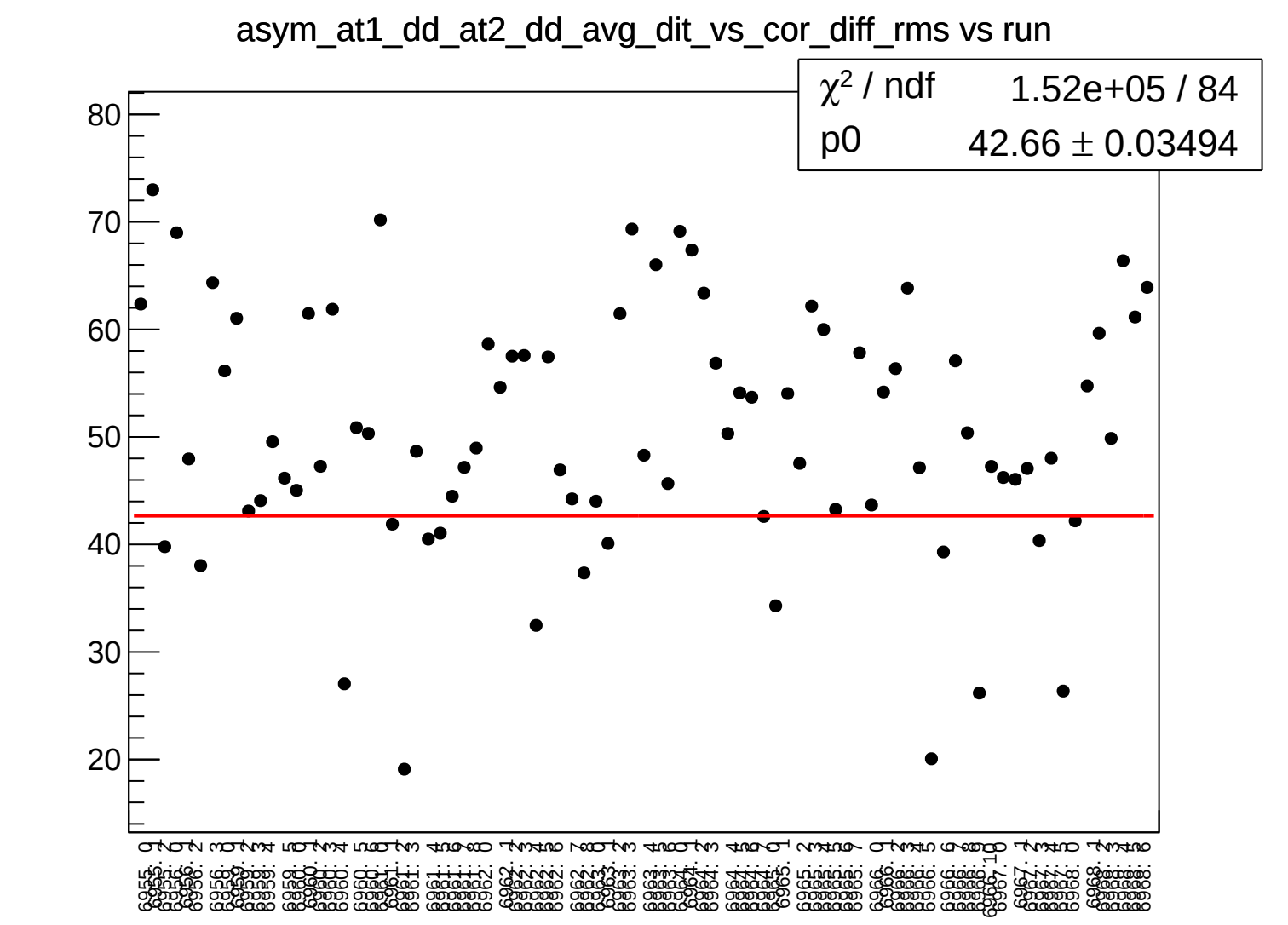

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 698.4 / 84
p0 1430 ± 1.116
1600
1550
1500
1450
1400
1350

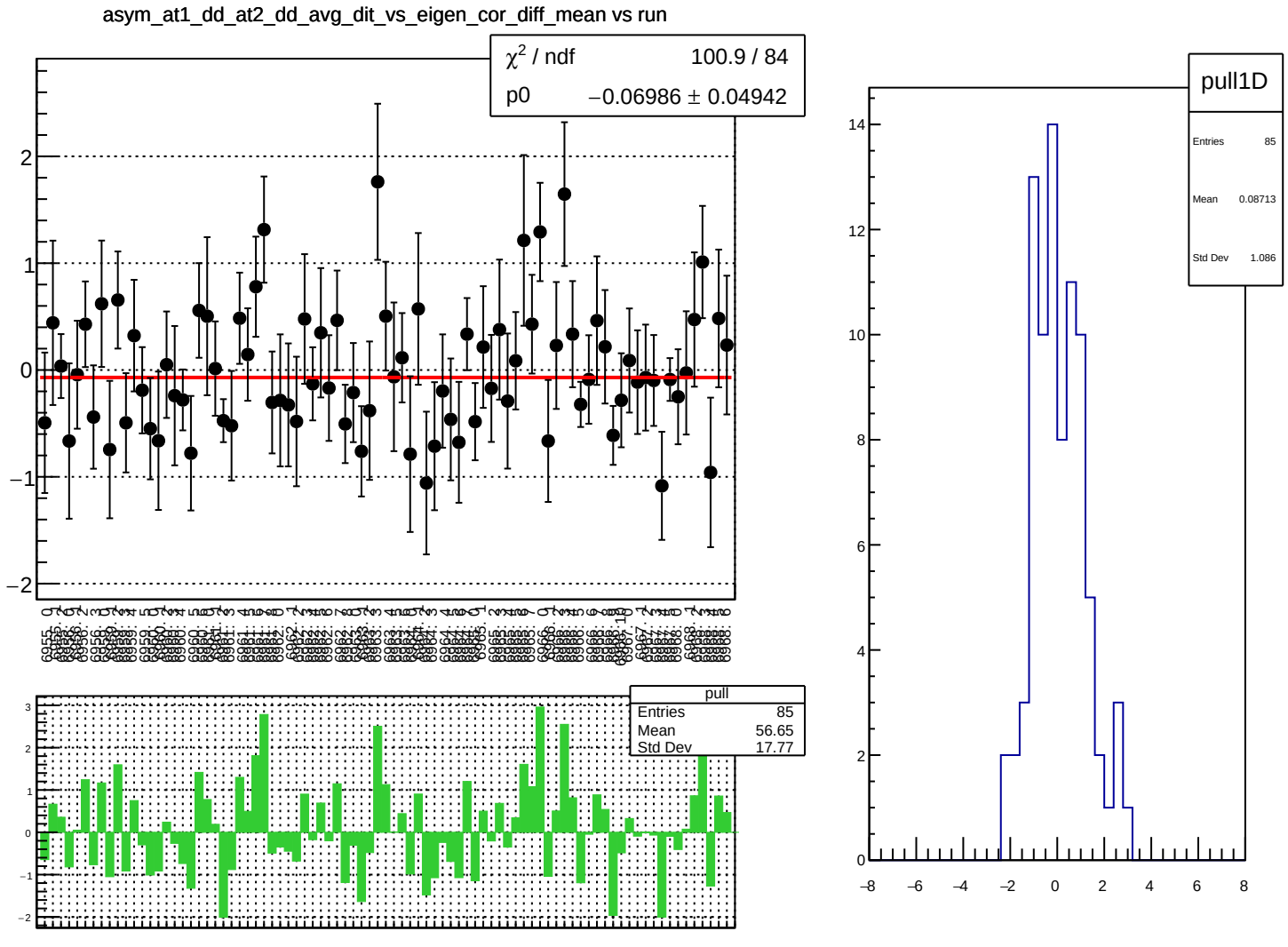

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.13 / 84
p0 −1.423e−14 ± 4.893e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 85
Mean −5.414
Std Dev 32.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.03919
Std Dev 0.9267
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

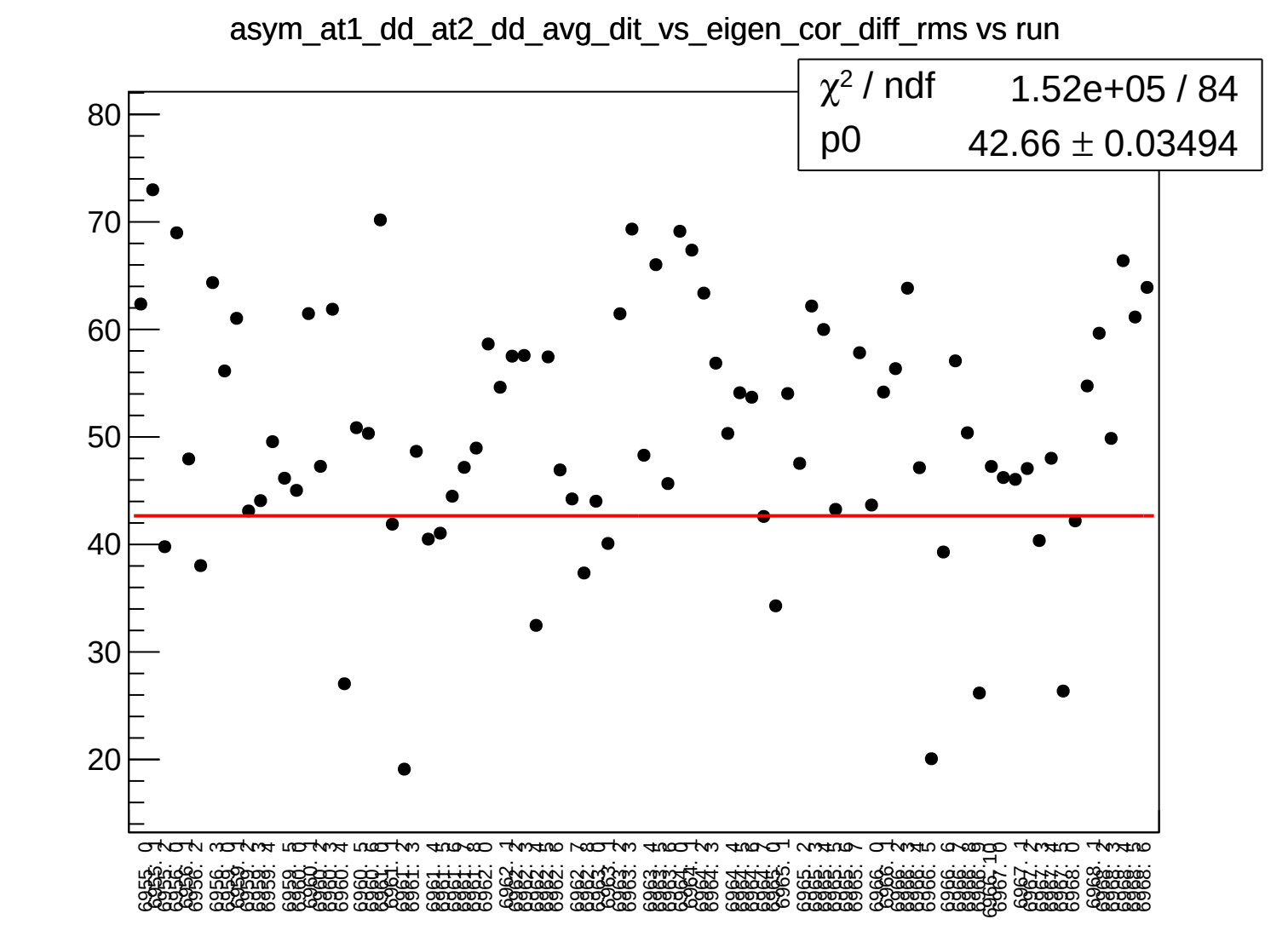

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 84
p0 2.675e−11 ± 3.46e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

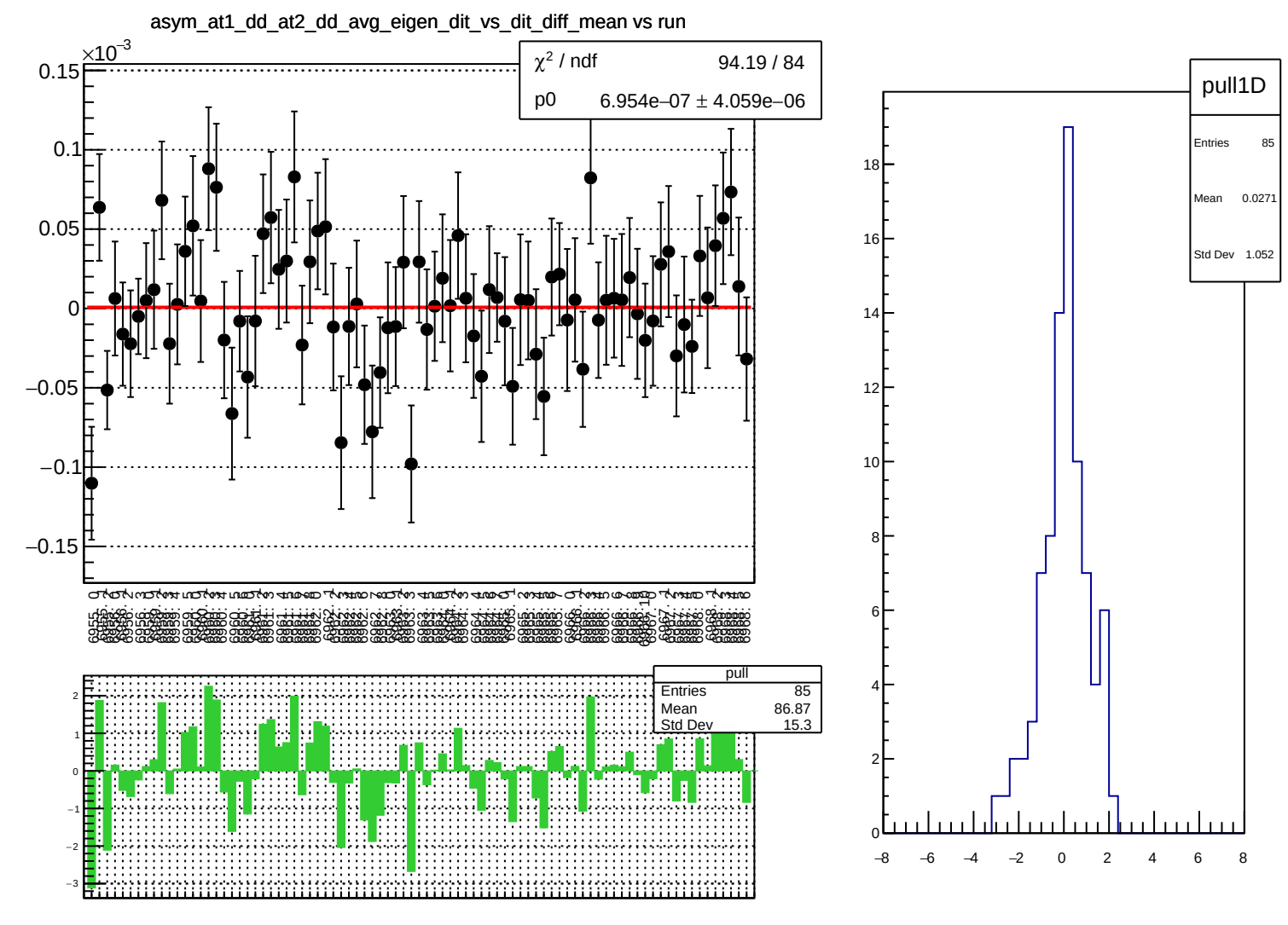

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 84
p0 −0.06986 ± 0.04942
pull
Entries 85
Mean 56.65
Std Dev 17.77

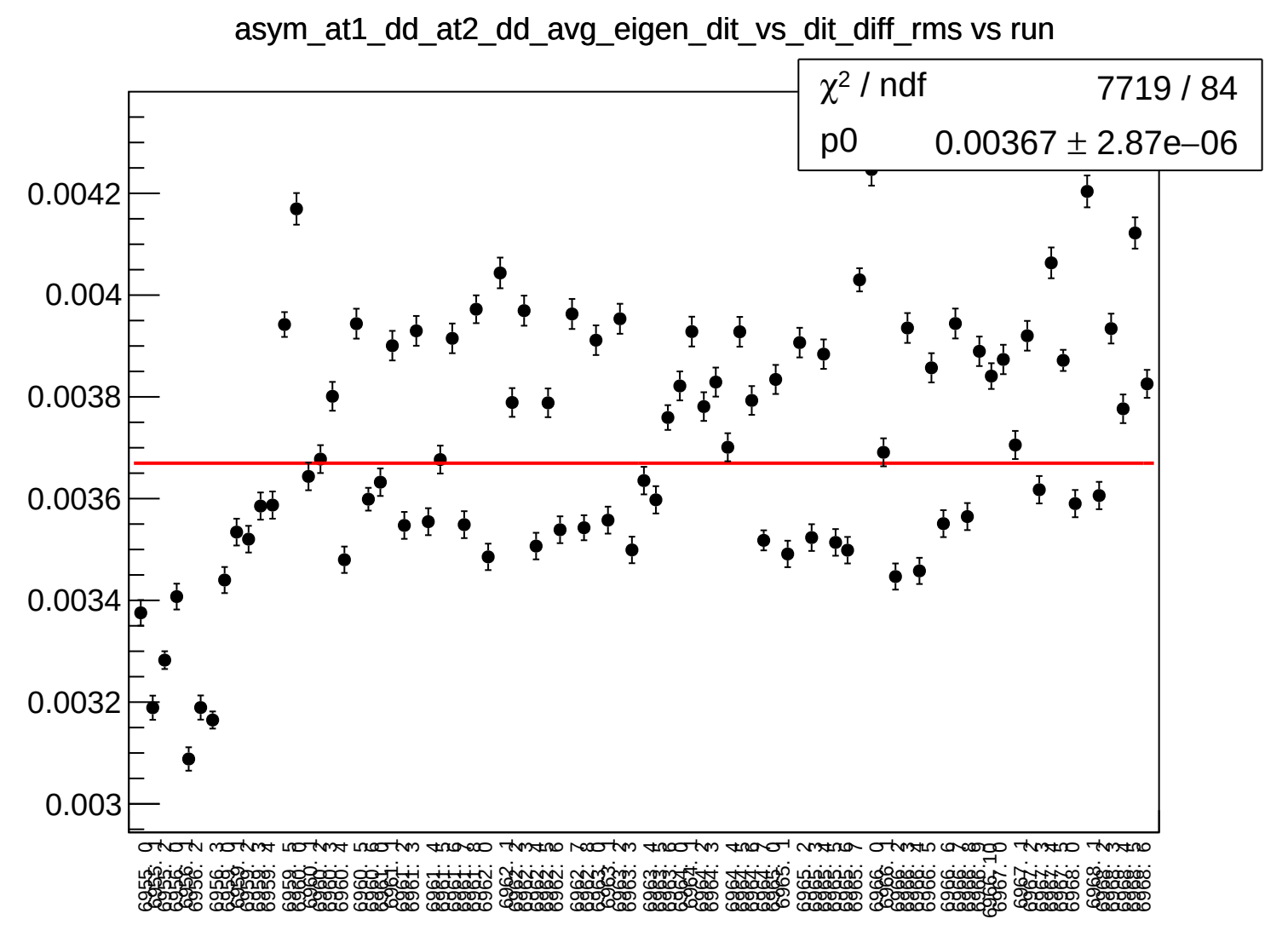

pull1D
Entries 85
Mean 0.08713
Std Dev 1.086

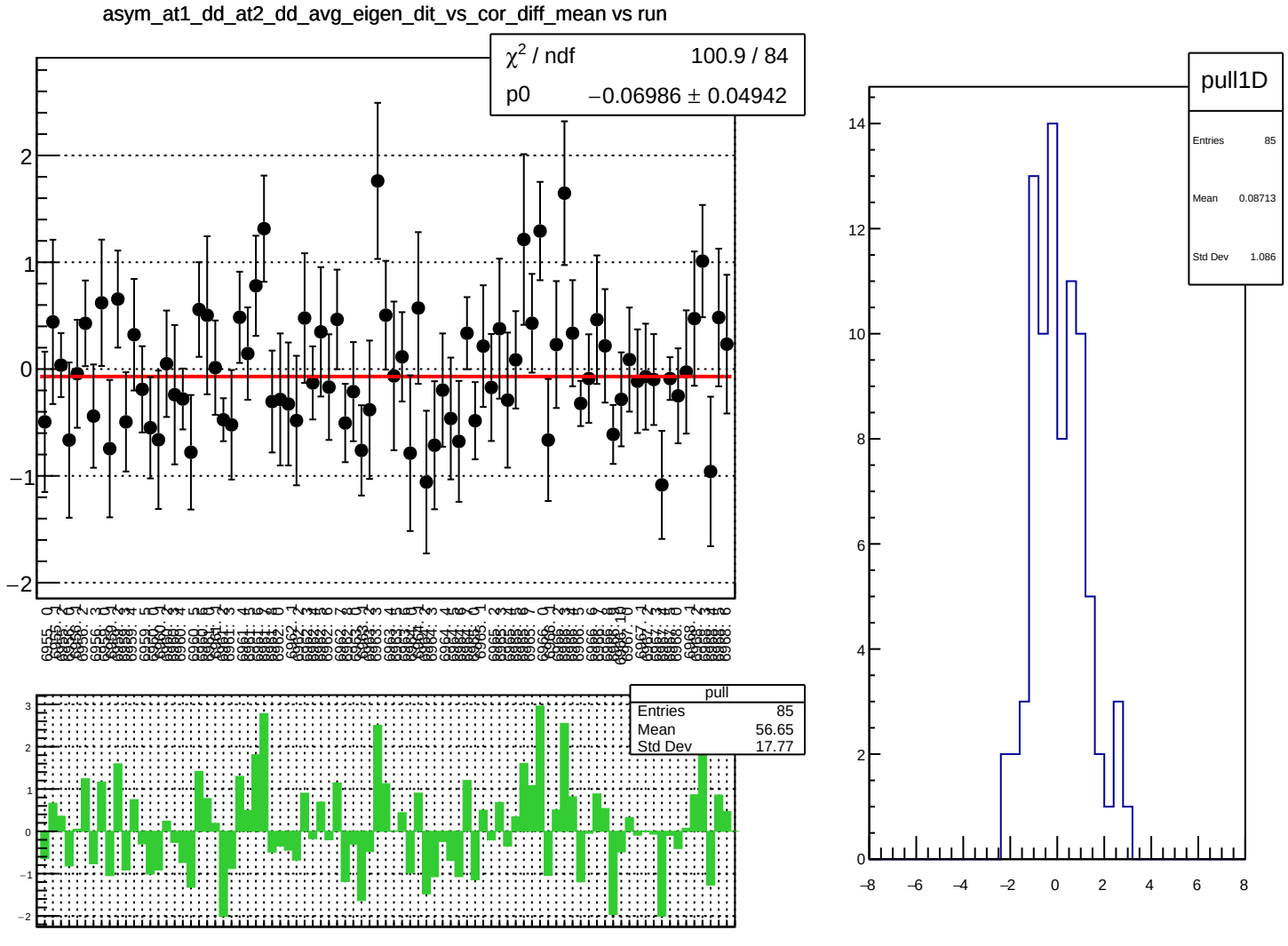

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.52e+05 / 84
p0 42.66 ± 0.03494
80
70
60
50
40
30
20

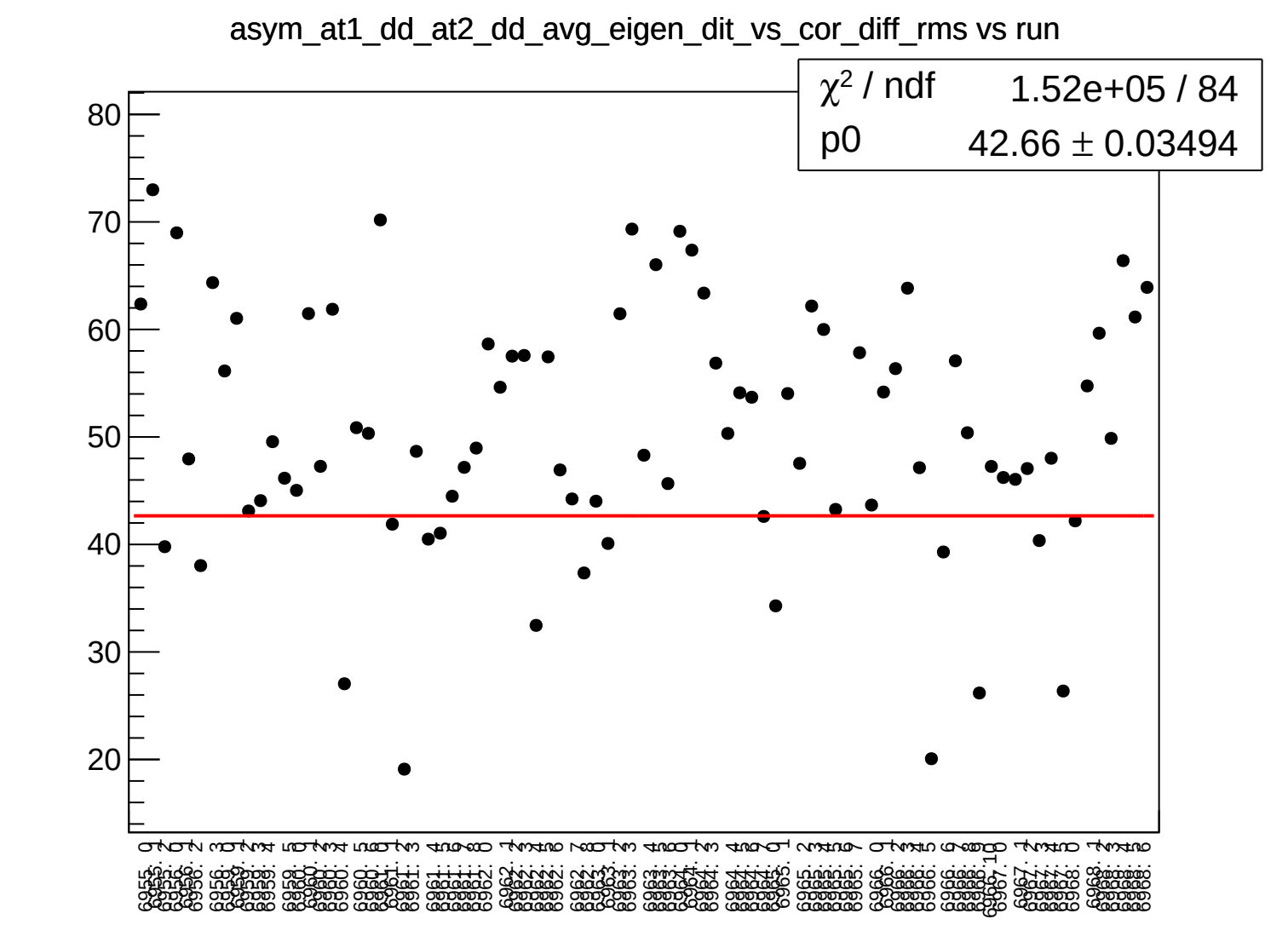

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 84
p0 −0.06986 ± 0.04942
pull
Entries 85
Mean 56.65
Std Dev 17.77
pull1D
Entries 85
Mean 0.08713
Std Dev 1.086

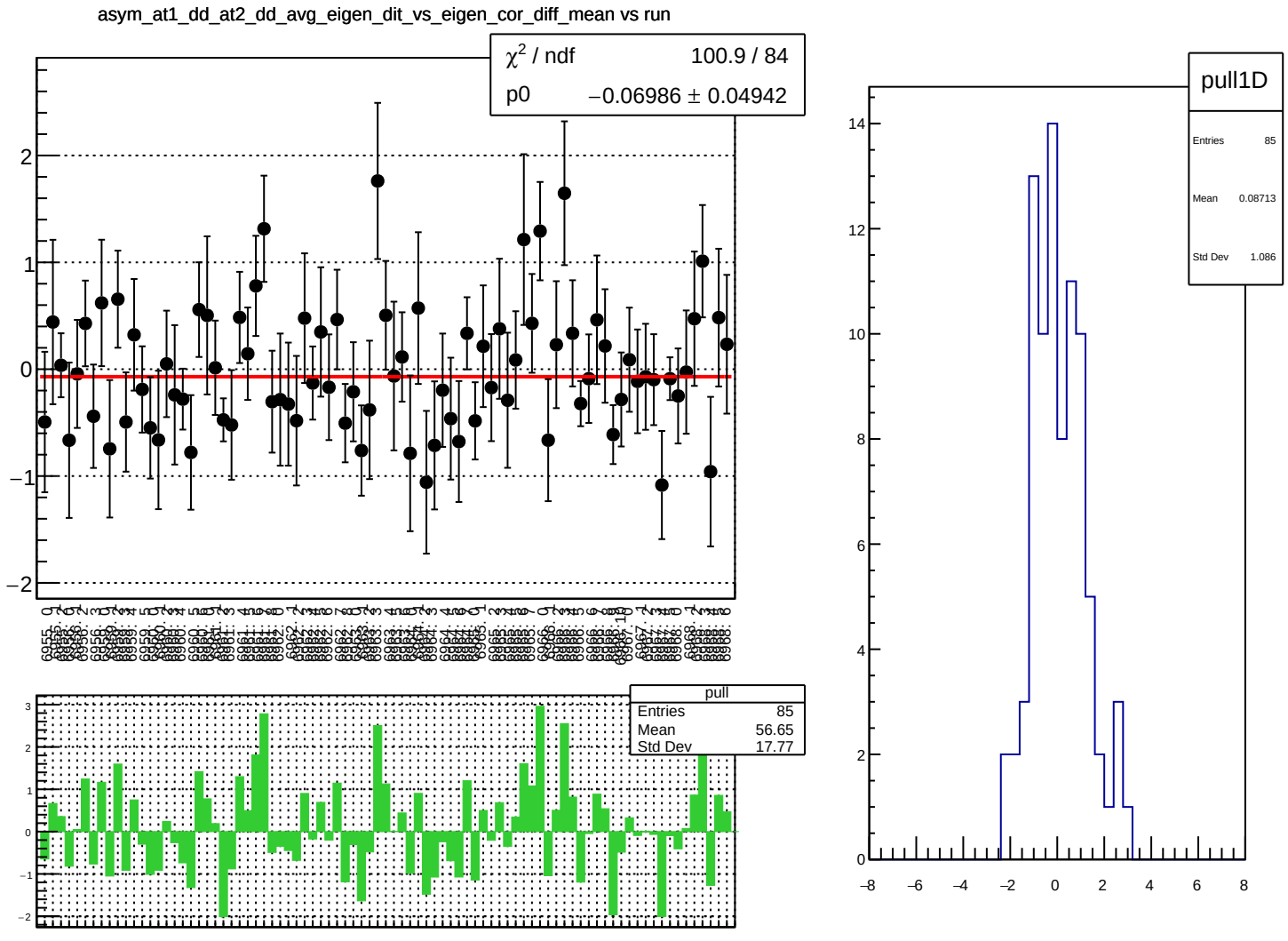

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.52e+05 / 84
p0 42.66 ± 0.03494
80
70
60
50
40
30
20

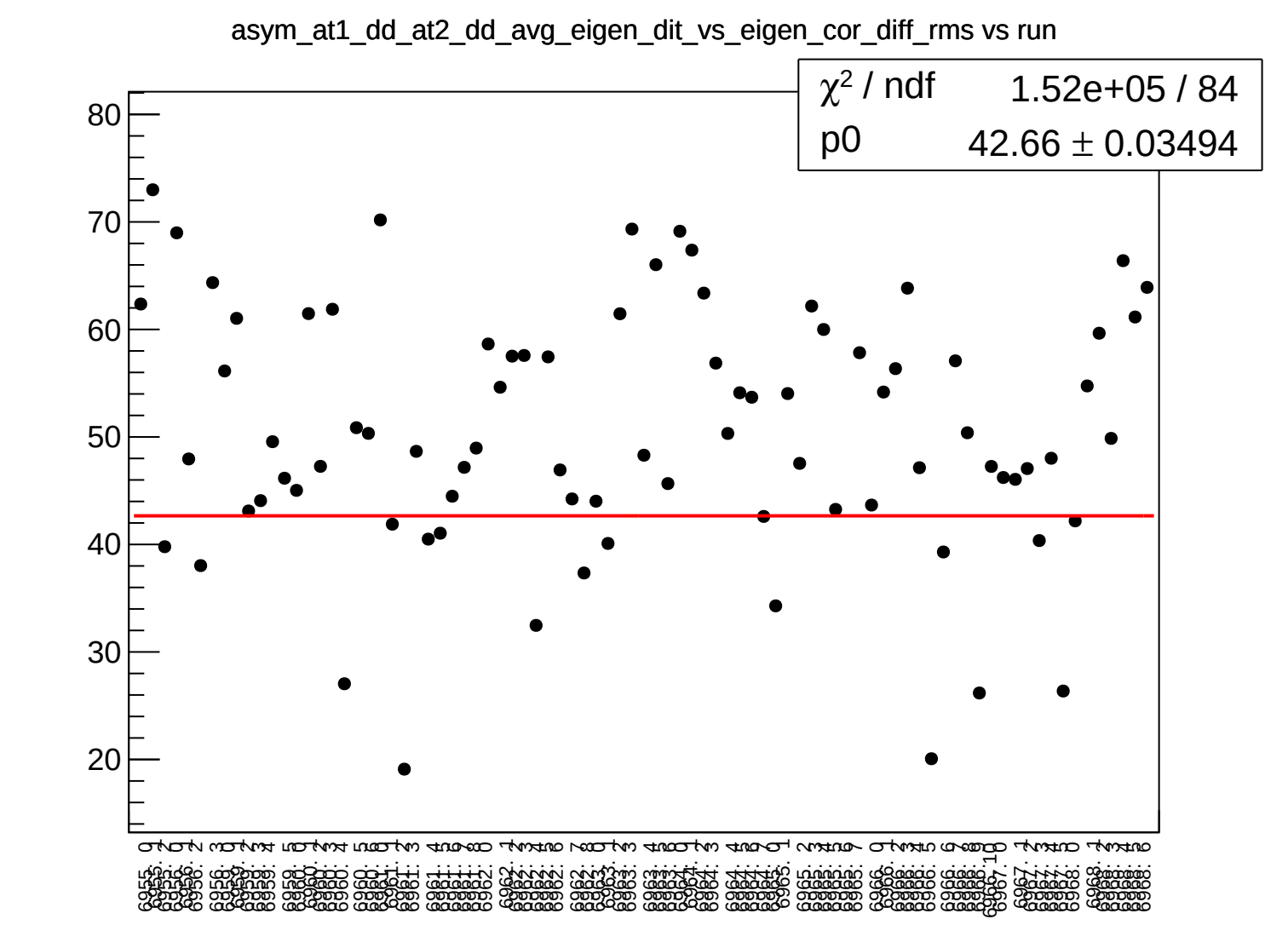

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.19 / 84
p0 6.954e−07 ± 4.059e−06
pull
Entries 85
Mean 86.87
Std Dev 15.3
pull1D
Entries 85
Mean 0.0271
Std Dev 1.052

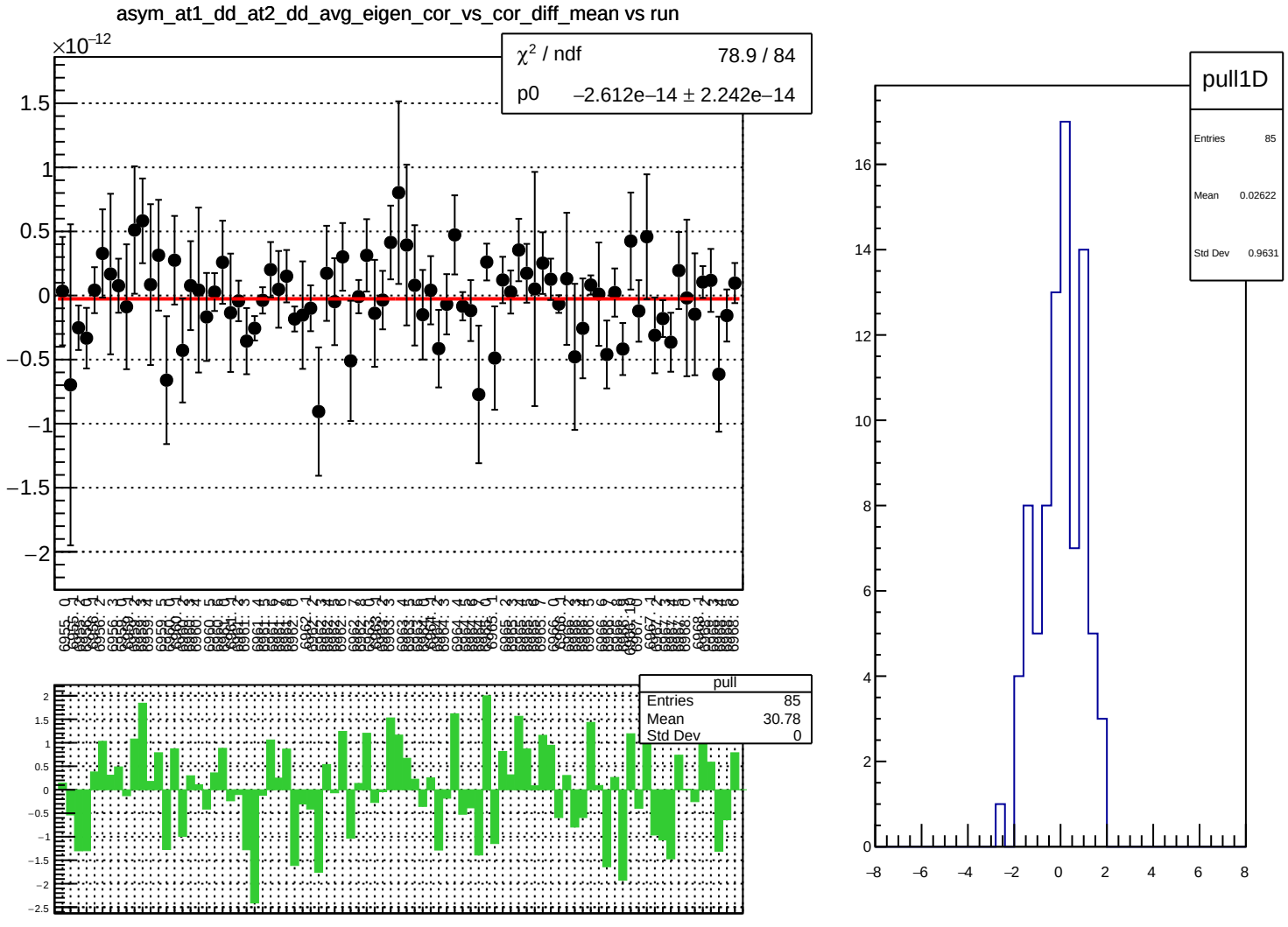

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7719 / 84
p0 0.00367 ± 2.87e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

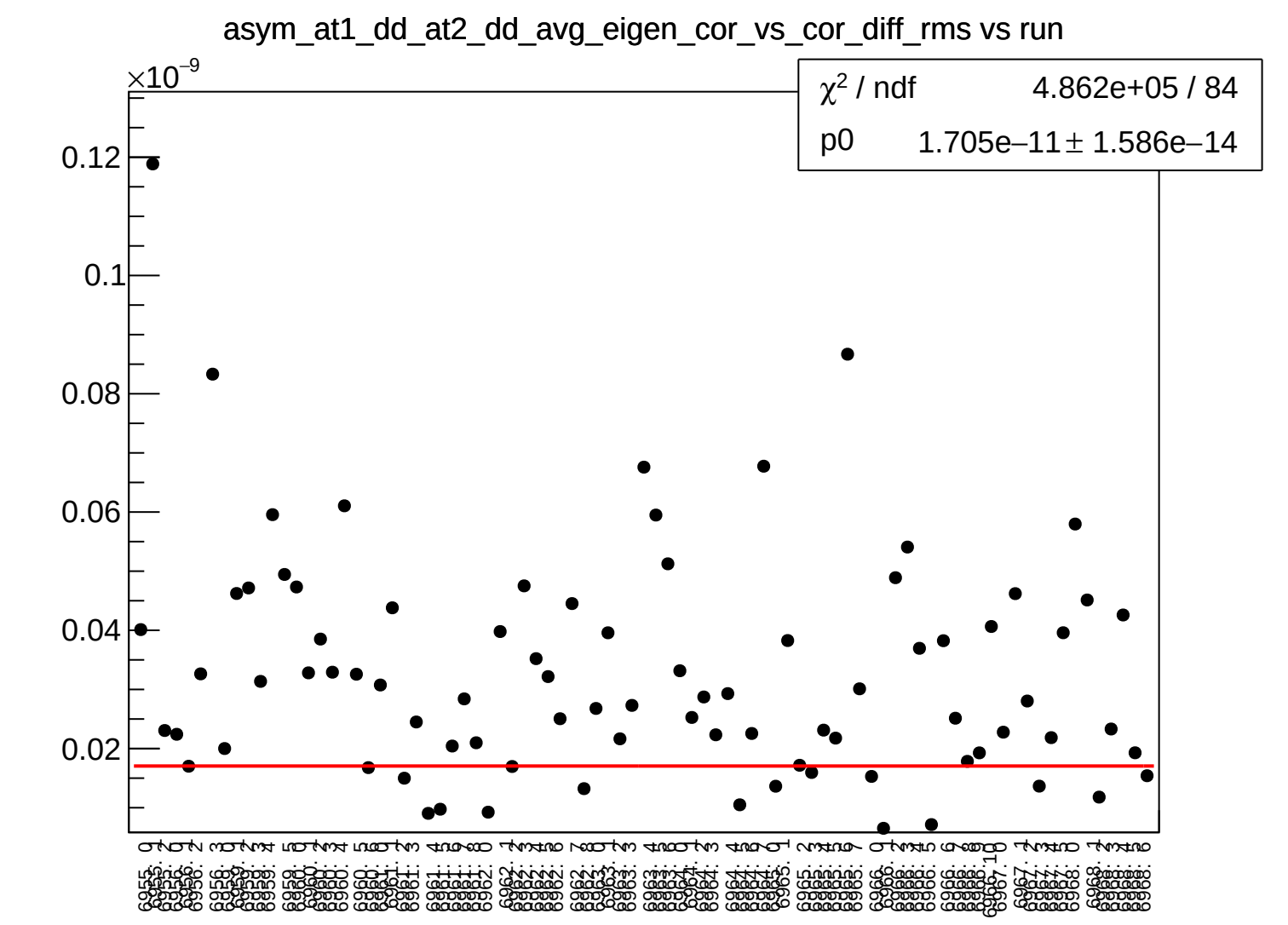

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 84
p0 −0.06986 ± 0.04942
pull
Entries 85
Mean 56.65
Std Dev 17.77
pull1D
Entries 85
Mean 0.08713
Std Dev 1.086

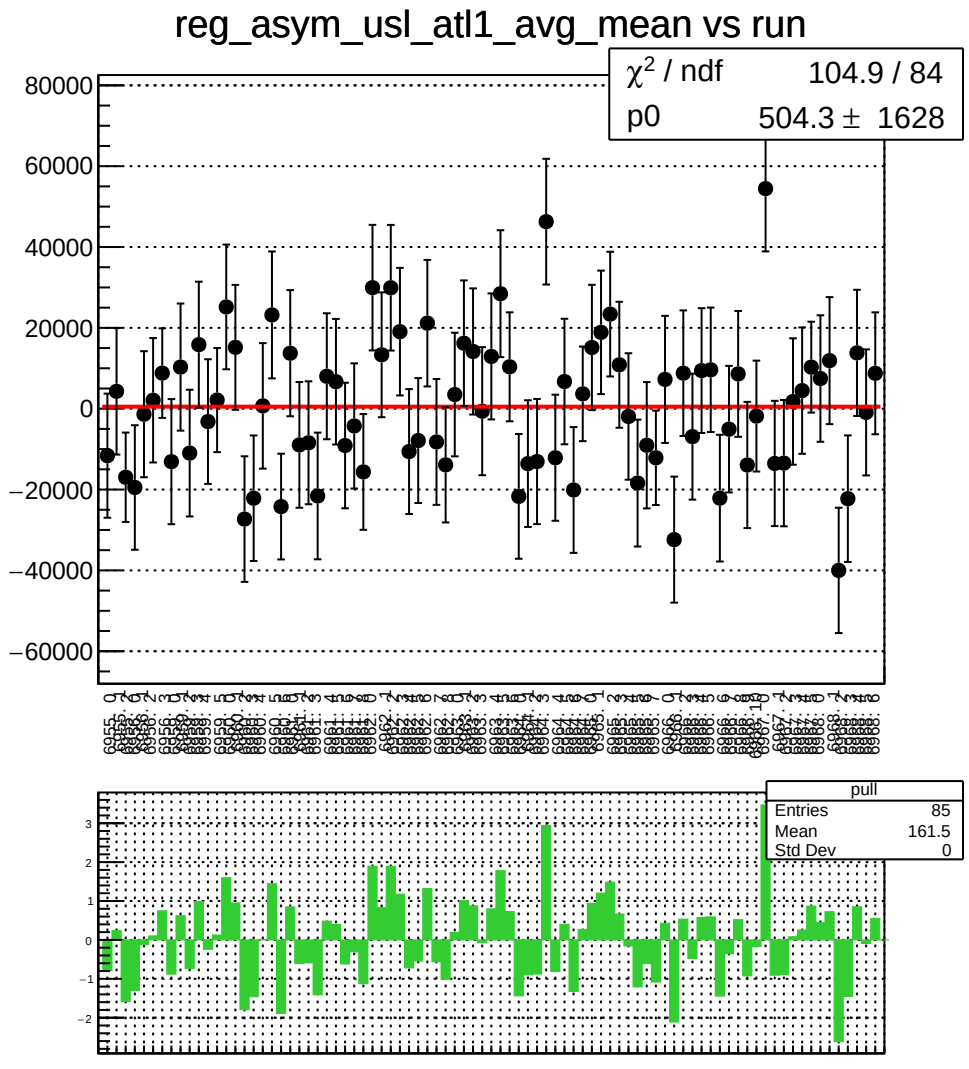

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.52e+05 / 84
p0 42.66 ± 0.03494
80
70
60
50
40
30
20

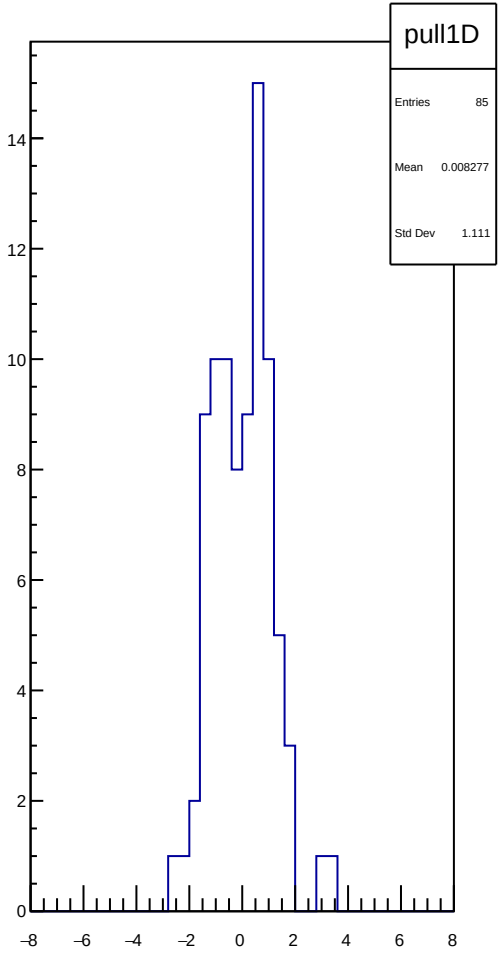

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 84
p0 −0.06986 ± 0.04942
pull
Entries 85
Mean 56.65
Std Dev 17.77
pull1D
Entries 85
Mean 0.08713
Std Dev 1.086

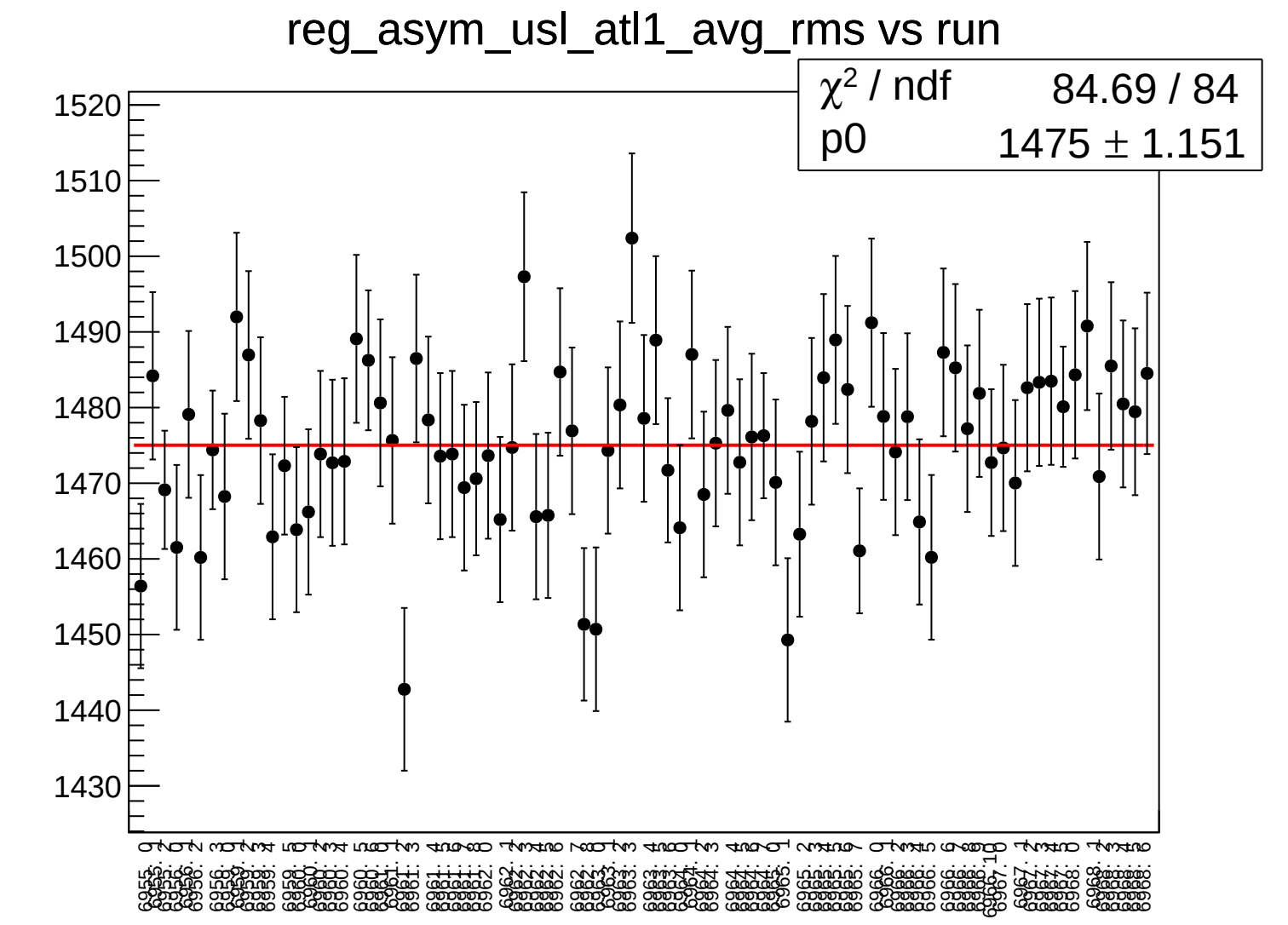

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.52e+05 / 84
p0 42.66 ± 0.03494
80
70
60
50
40
30
20

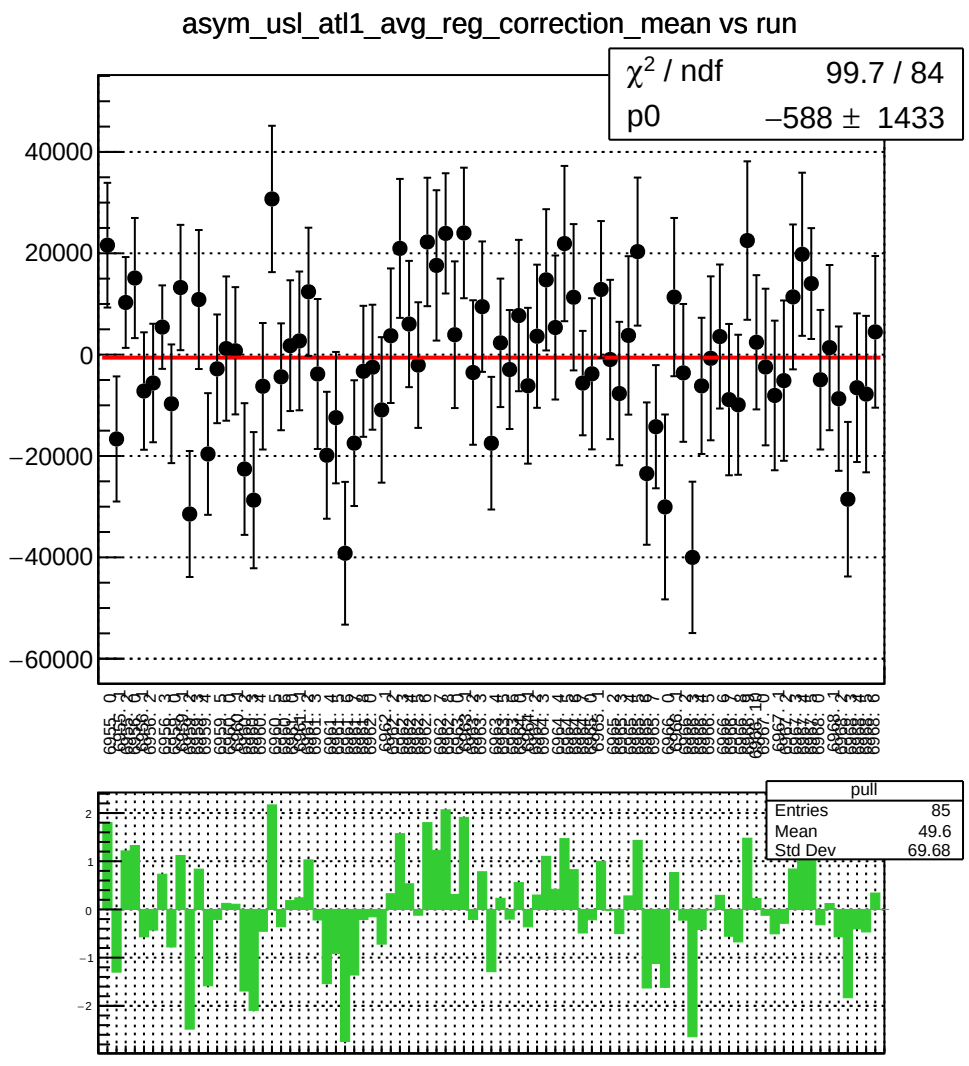

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.9 / 84
p0 −2.612e−14 ± 2.242e−14
pull
Entries 85
Mean 30.78
Std Dev 0
pull1D
Entries 85
Mean 0.02622
Std Dev 0.9631

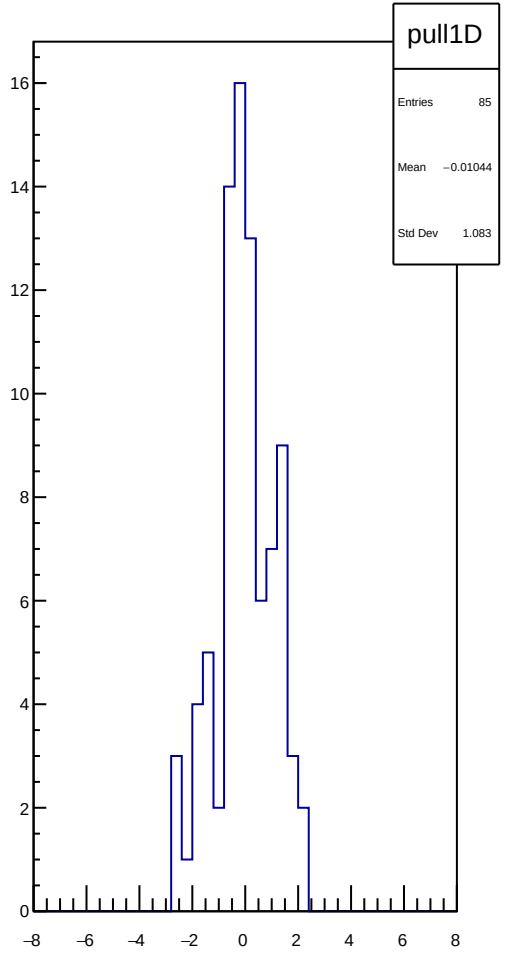

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.862e+05 / 84
p0 1.705e−11 ± 1.586e−14
0.12
0.1
0.08
0.06
0.04
0.02

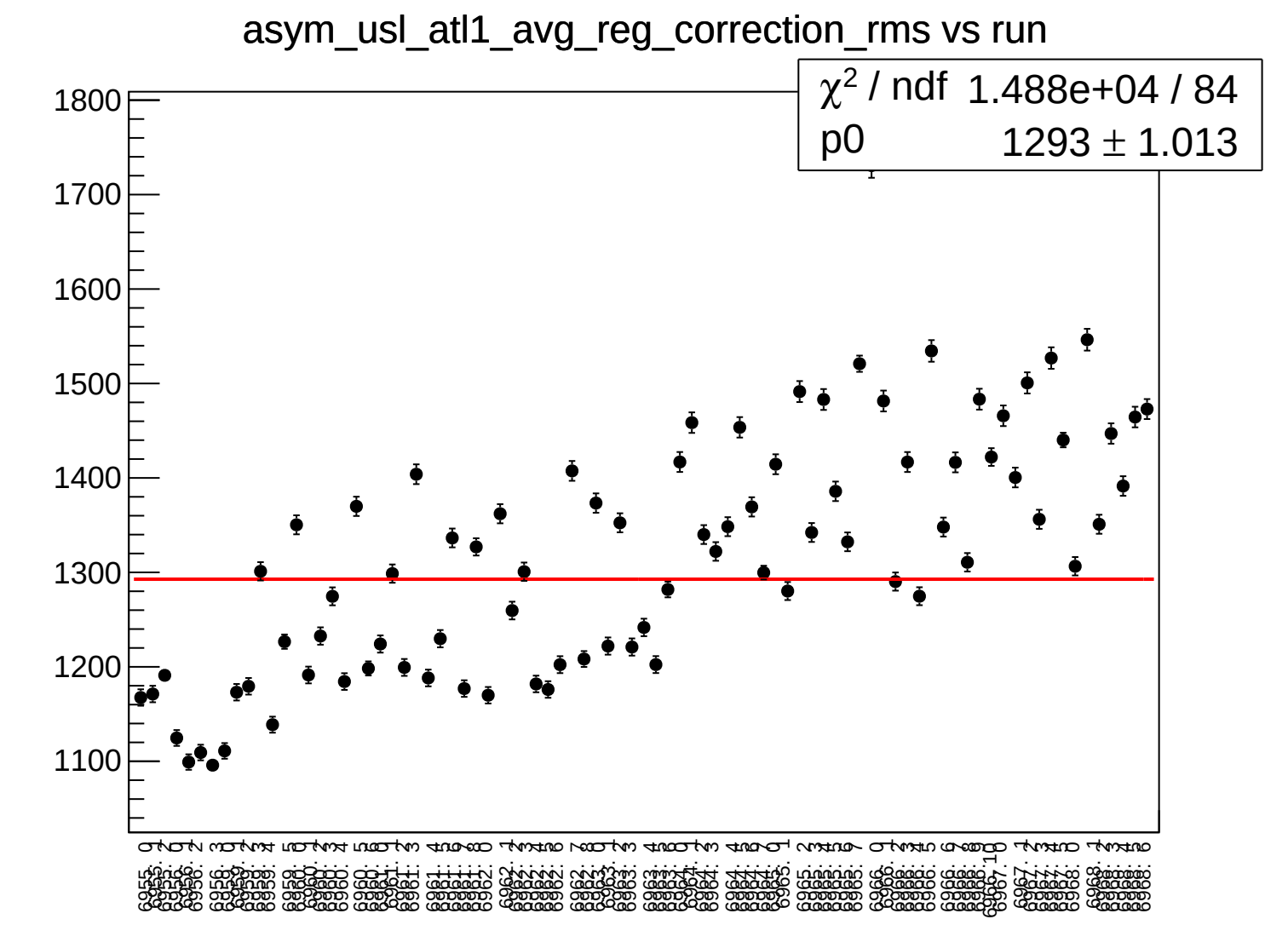

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 104.9 / 84
p0 504.3 ± 1628
pull
Entries 85
Mean 161.5
Std Dev 0

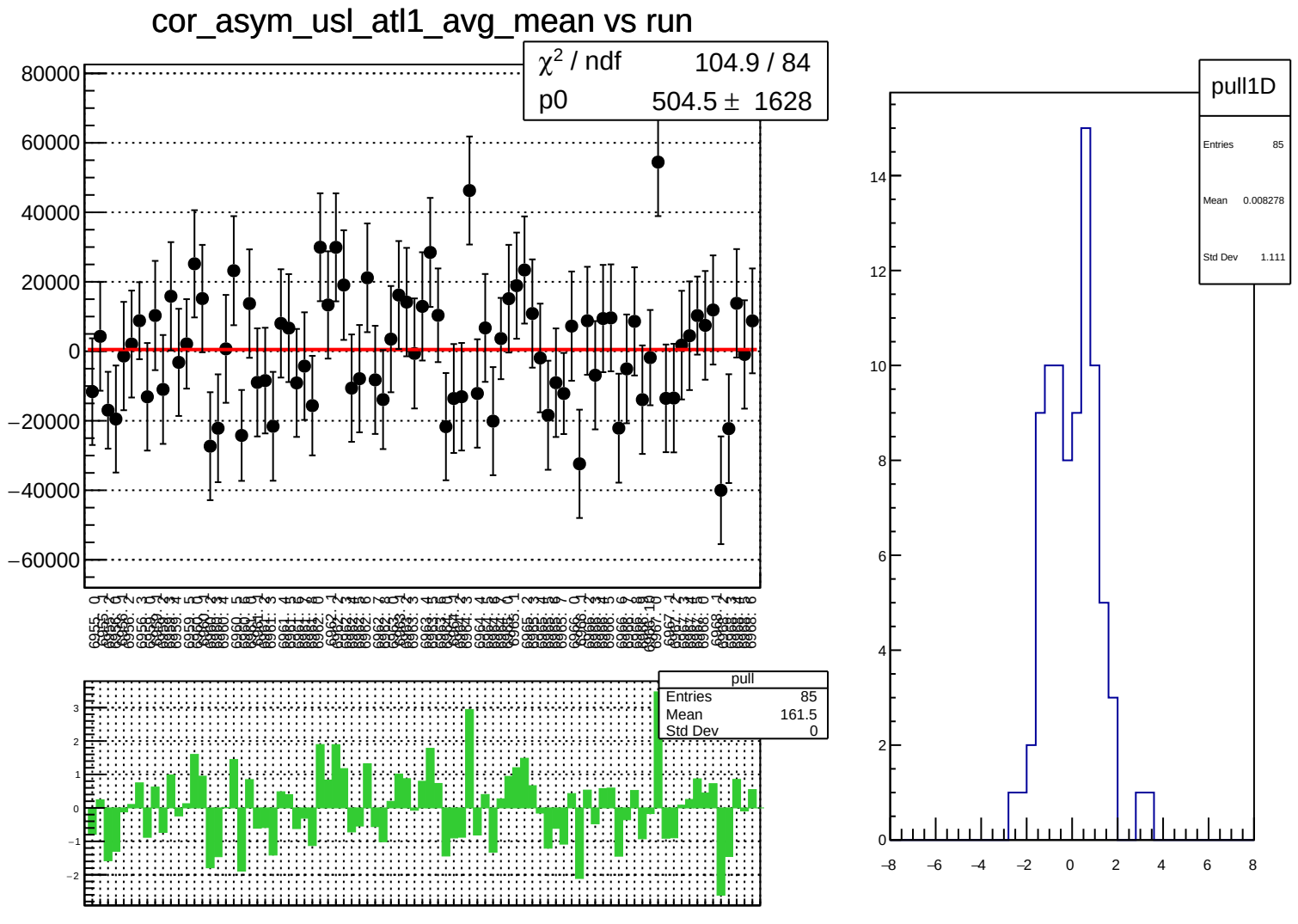

pull1D
Entries 85
Mean 0.008277
Std Dev 1.111

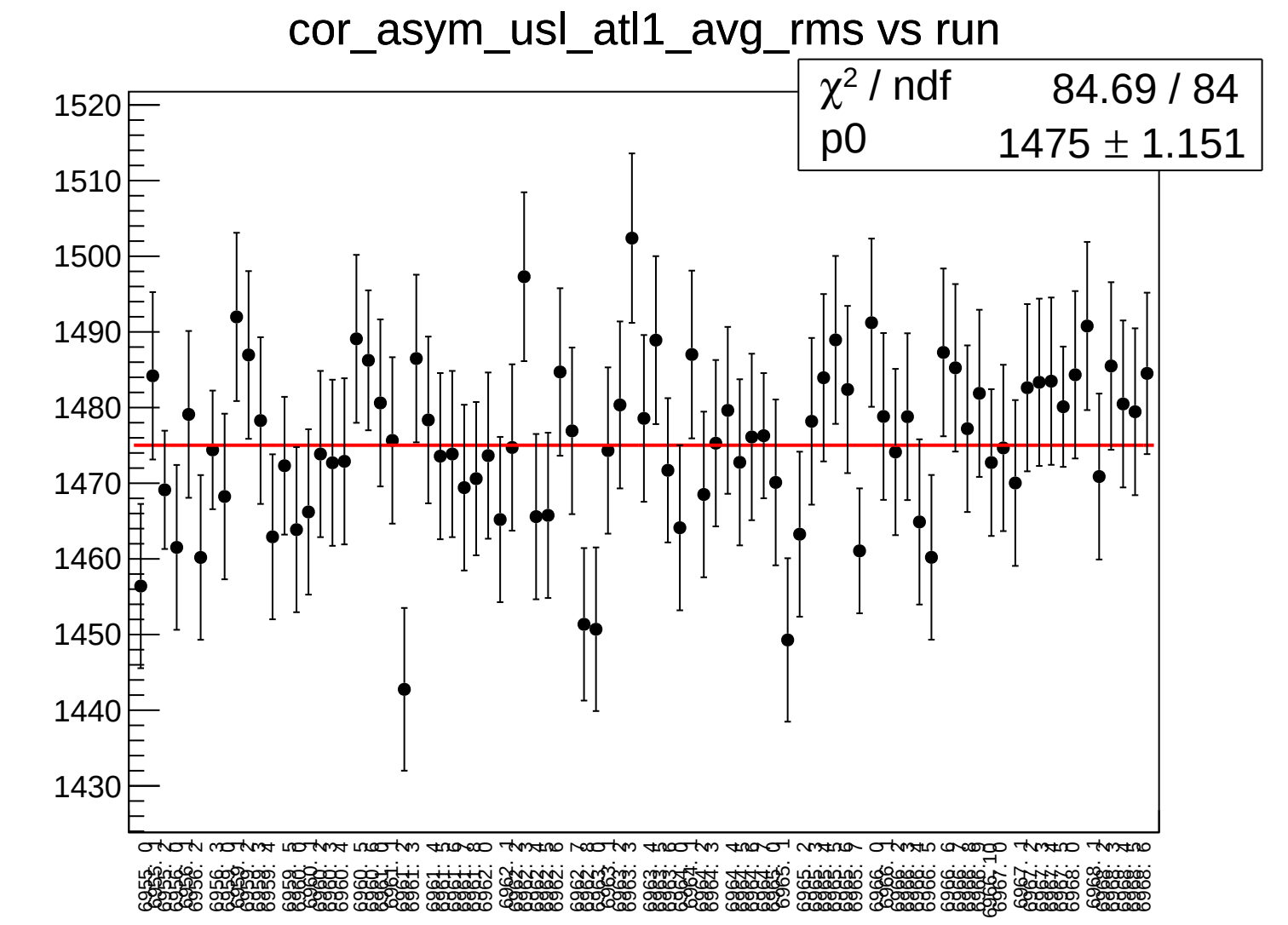

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 84.69 / 84
p0 1475 ± 1.151
1520
1510
1500
1490
1480
1470
1460
1450
1440
1430

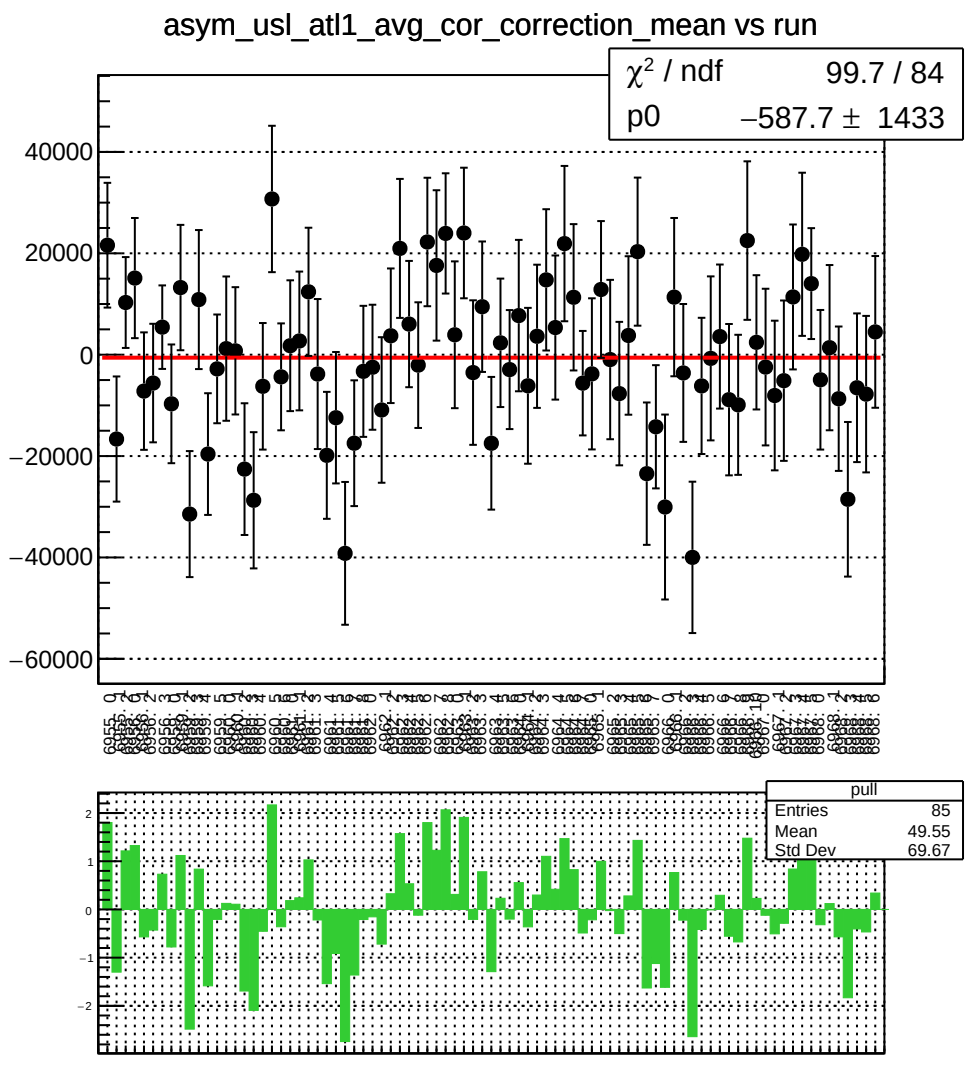

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 99.7 / 84
p0 −588 ± 1433
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 49.6
Std Dev 69.68
2
1
0
−1
−2

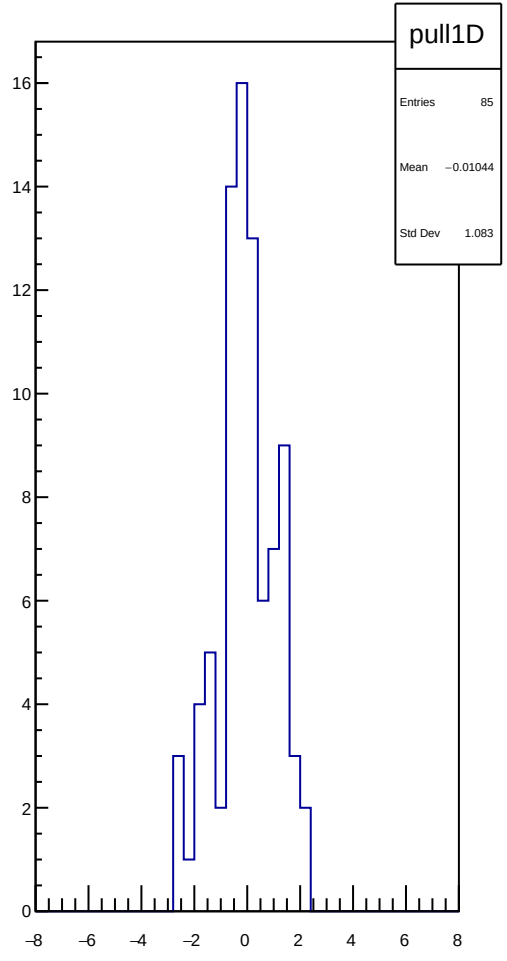

pull1D
Entries 85
Mean −0.01044
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

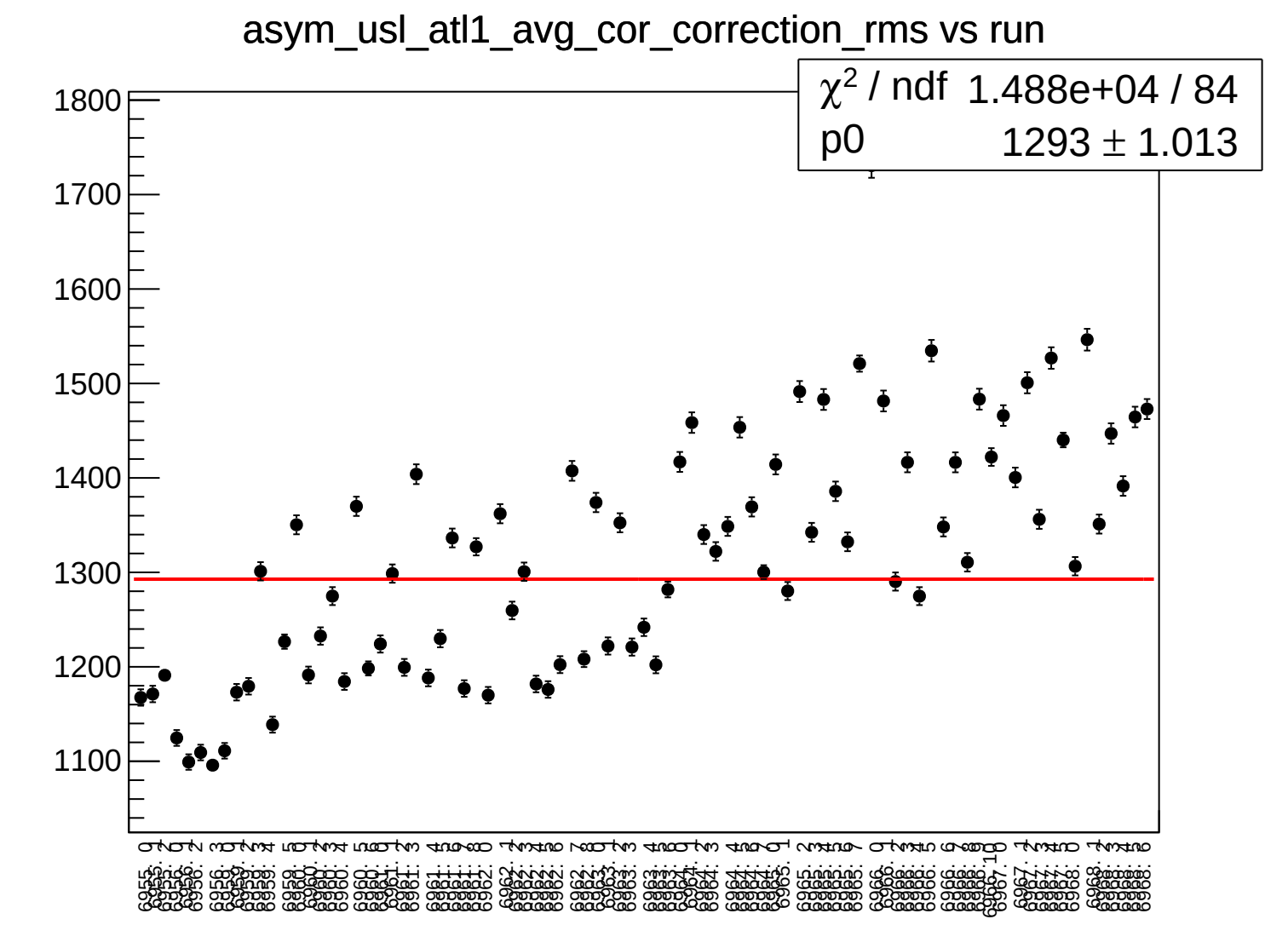

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.488e+04 / 84
p0 1293 ± 1.013
1800
1700
1600
1500
1400
1300
1200
1100

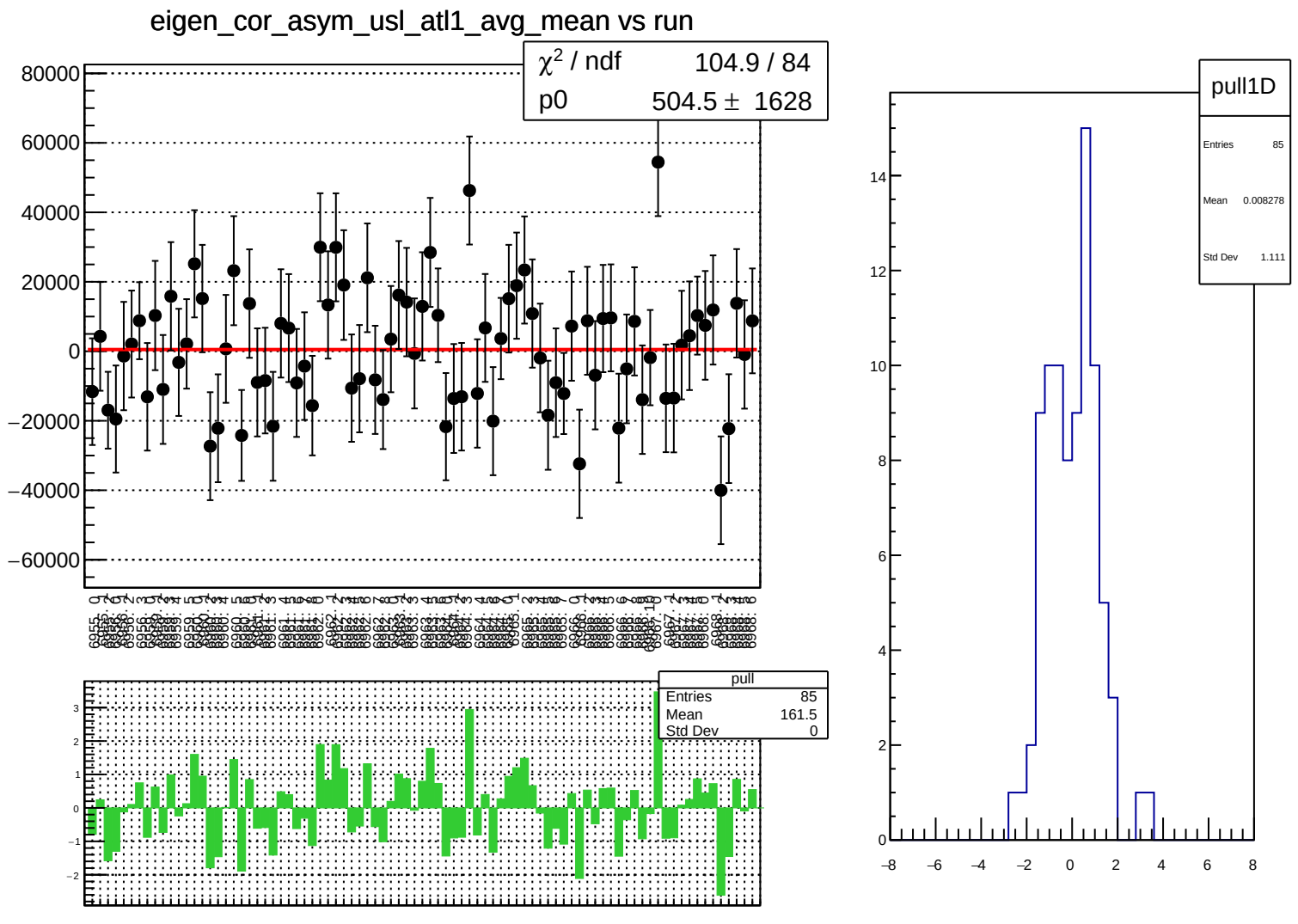

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 104.9 / 84
p0 504.5 ± 1628
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 161.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.008278
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

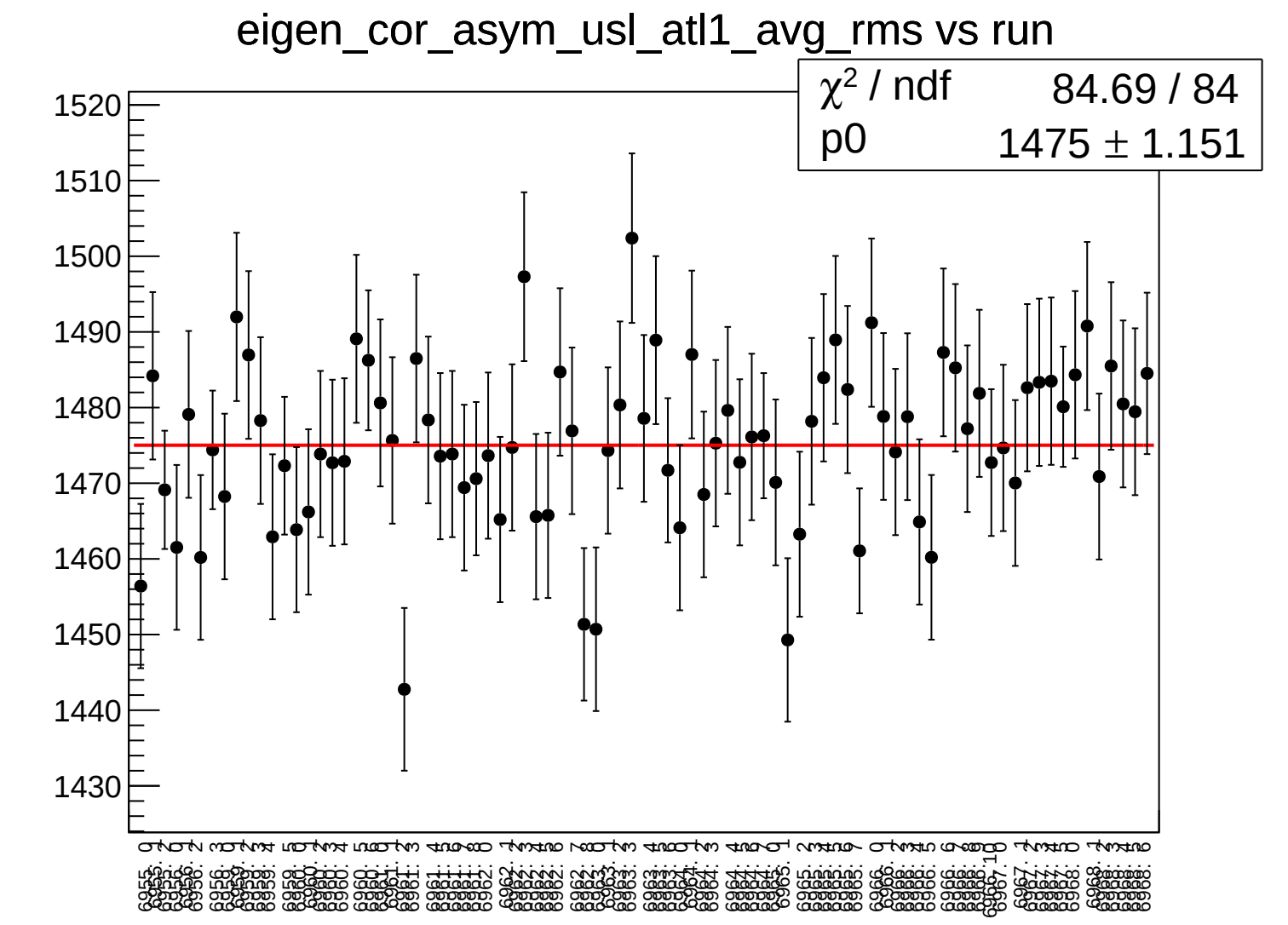

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 84.69 / 84
p0 1475 ± 1.151
1520
1510
1500
1490
1480
1470
1460
1450
1440
1430

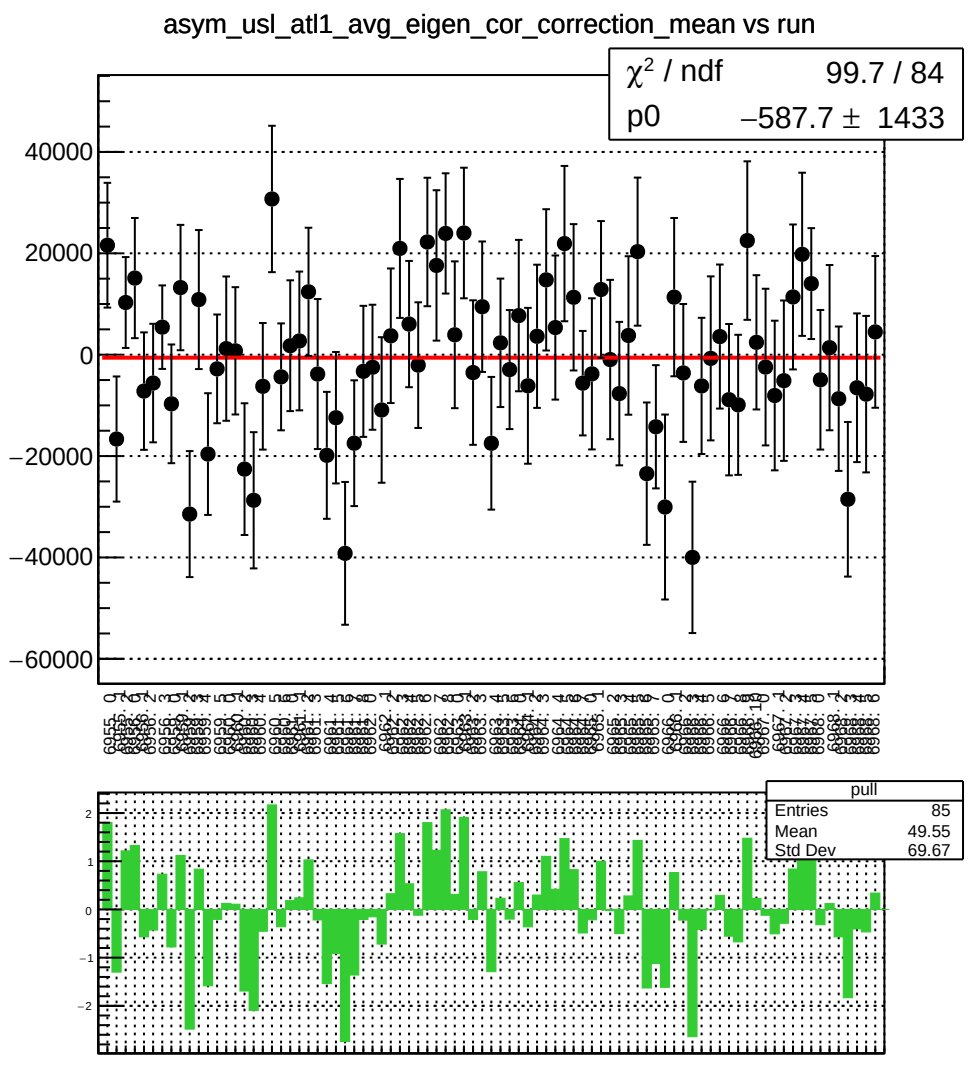

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 99.7 / 84
p0 −587.7 ± 1433
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 49.55
Std Dev 69.67
2
1
0
−1
−2

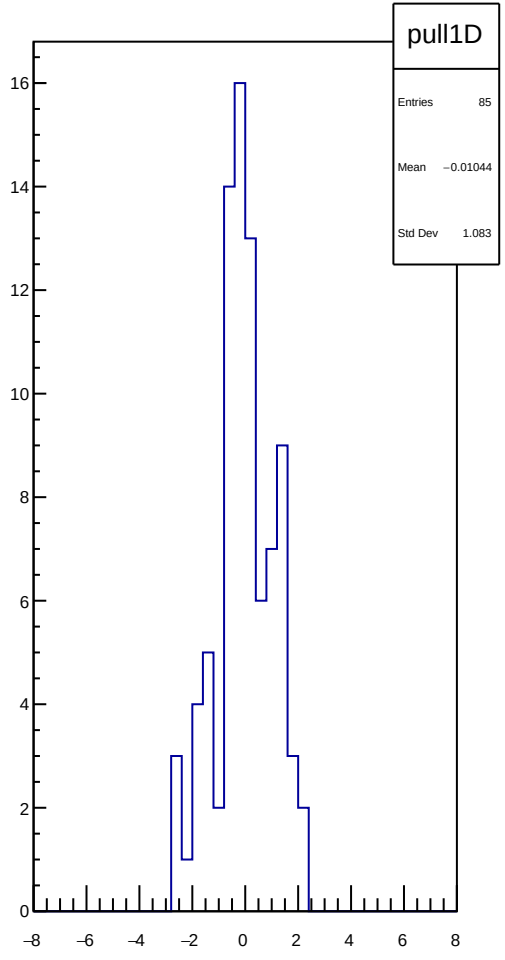

pull1D
Entries 85
Mean −0.01044
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

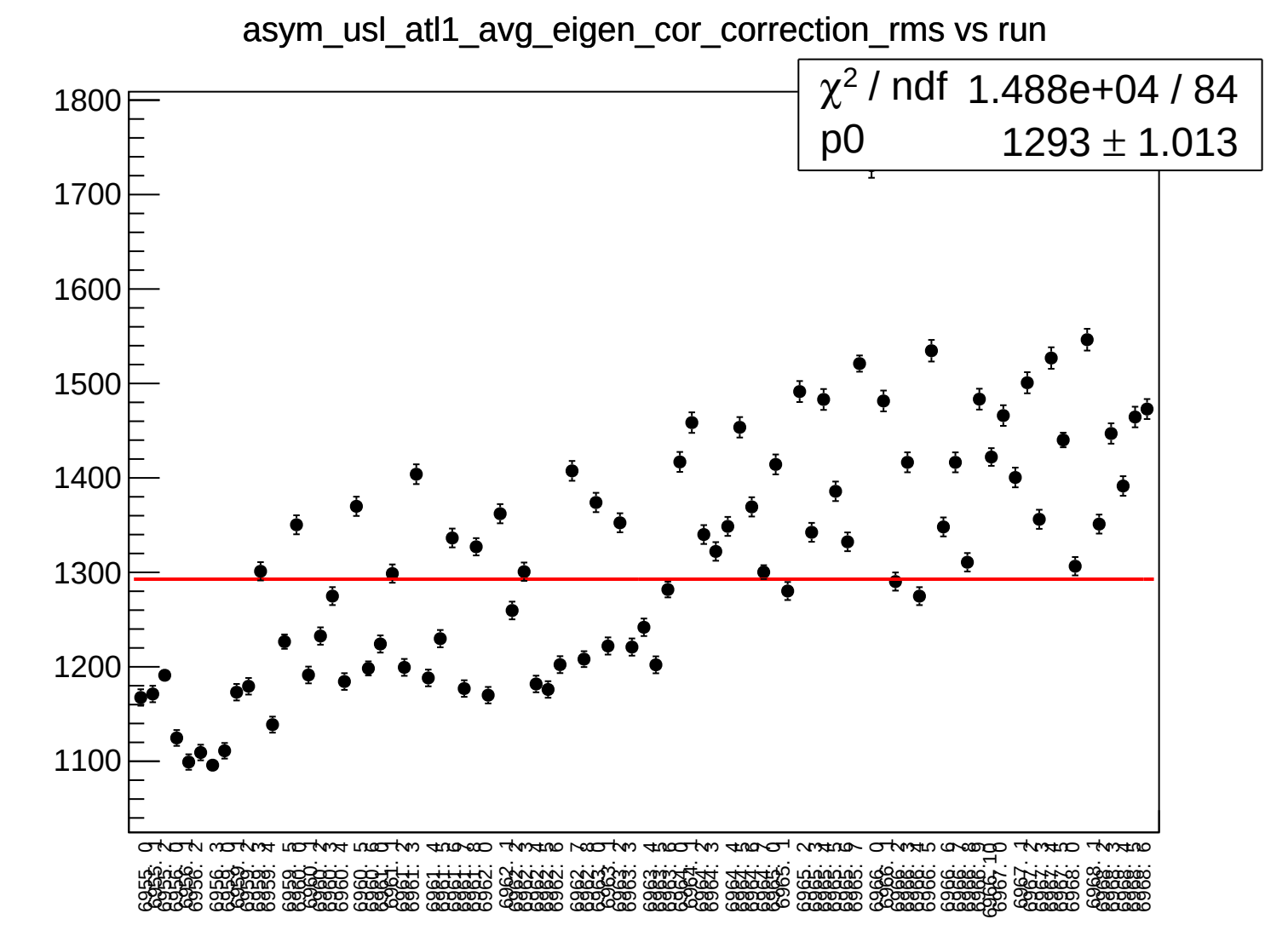

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.488e+04 / 84
p0 1293 ± 1.013
1800
1700
1600
1500
1400
1300
1200
1100

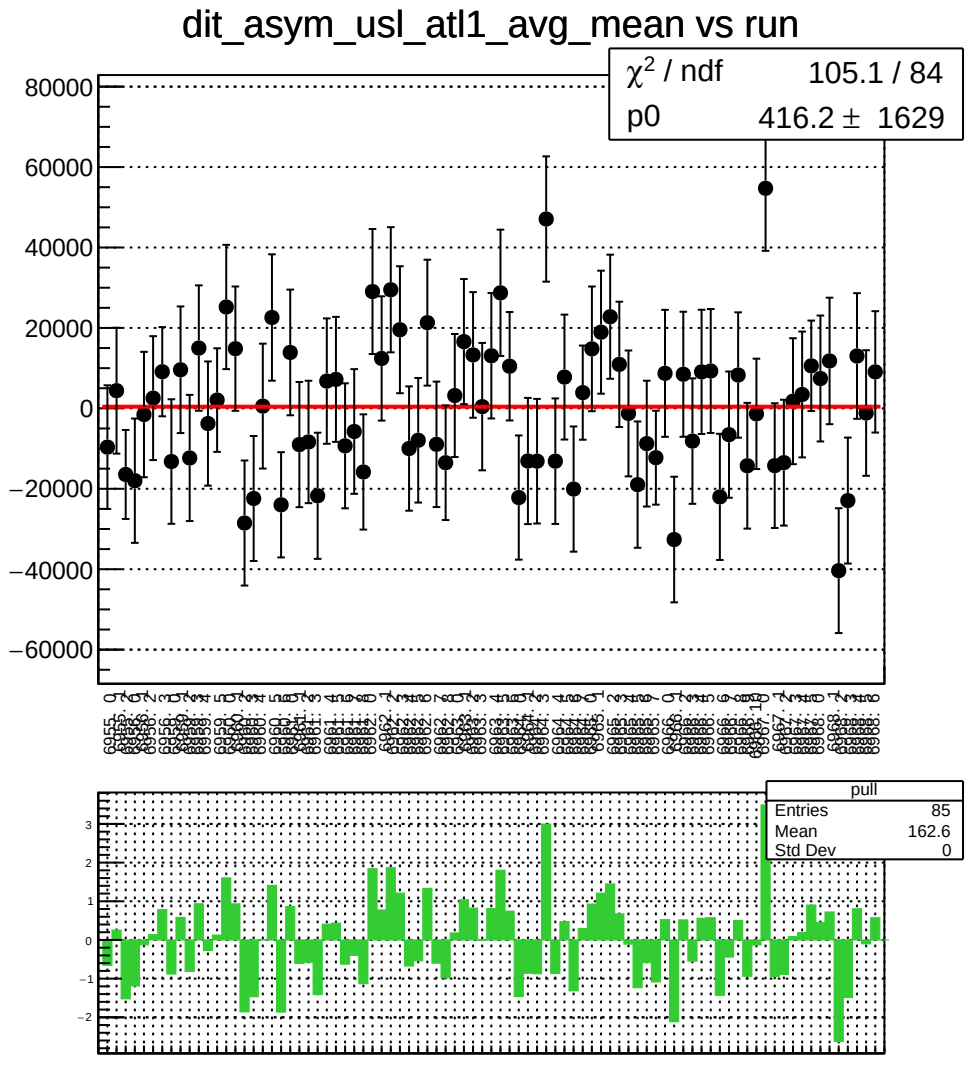

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 104.9 / 84
p0 504.5 ± 1628
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 161.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.008278
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

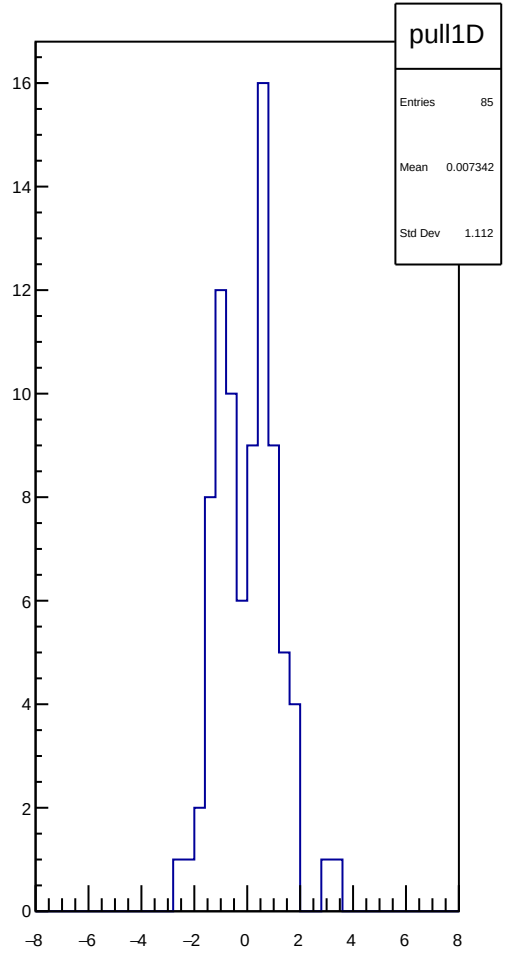

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 84.69 / 84
p0 1475 ± 1.151
1520
1510
1500
1490
1480
1470
1460
1450
1440
1430

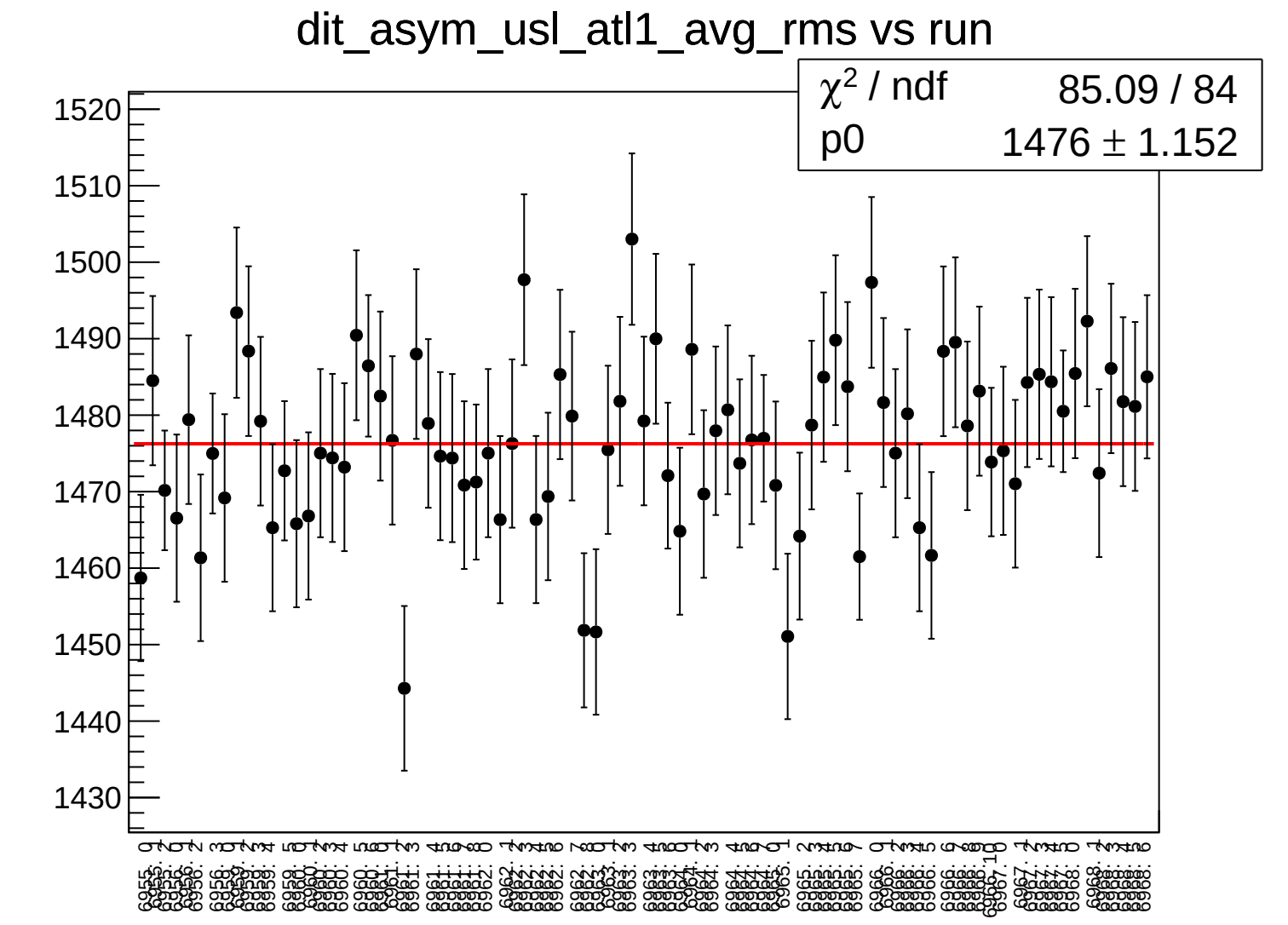

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.7 / 84
p0 −587.7 ± 1433
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 49.55
Std Dev 69.67
2
1
0
−1
−2

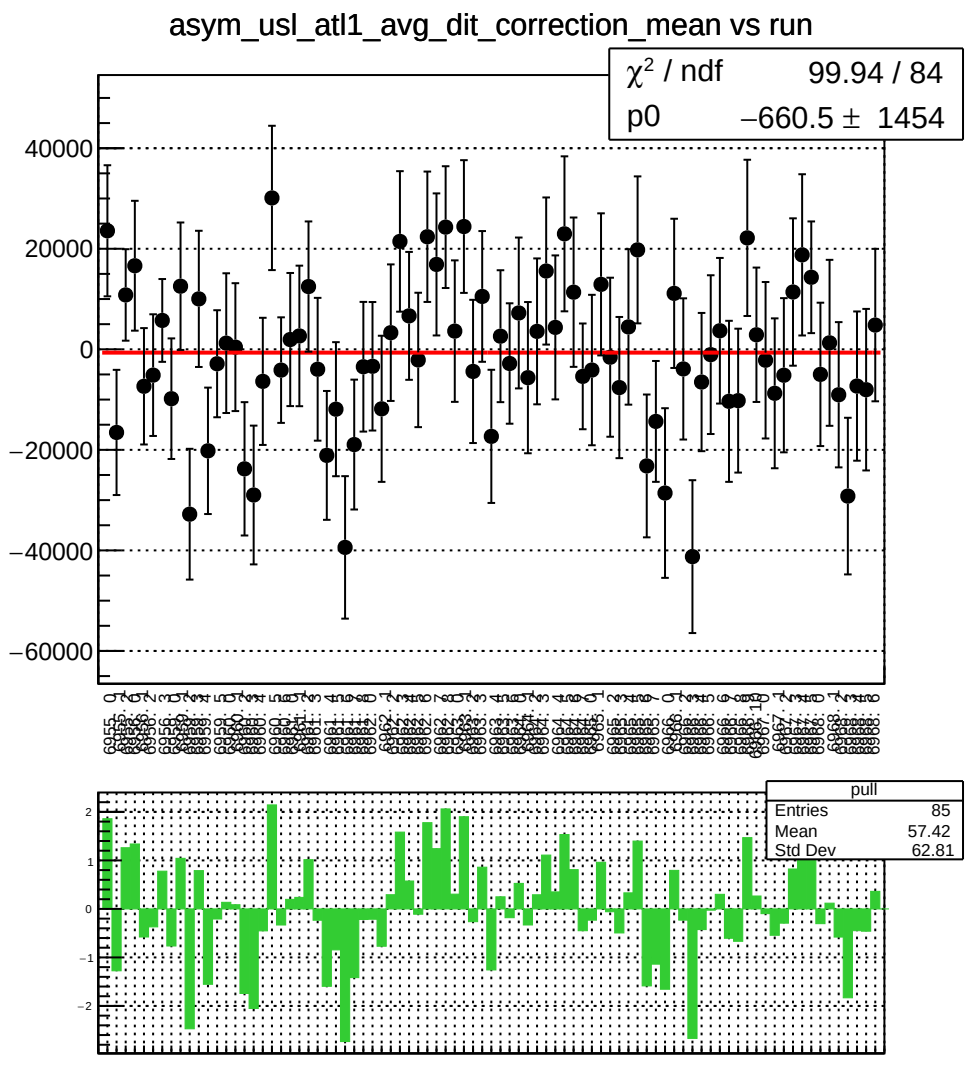

pull1D
Entries 85
Mean −0.01044
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

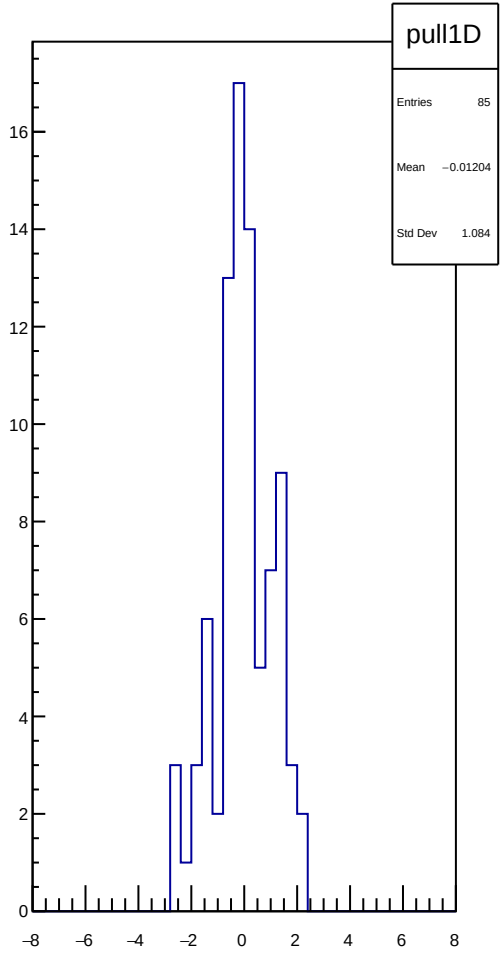

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.488e+04 / 84
p0 1293 ± 1.013
1800
1700
1600
1500
1400
1300
1200
1100

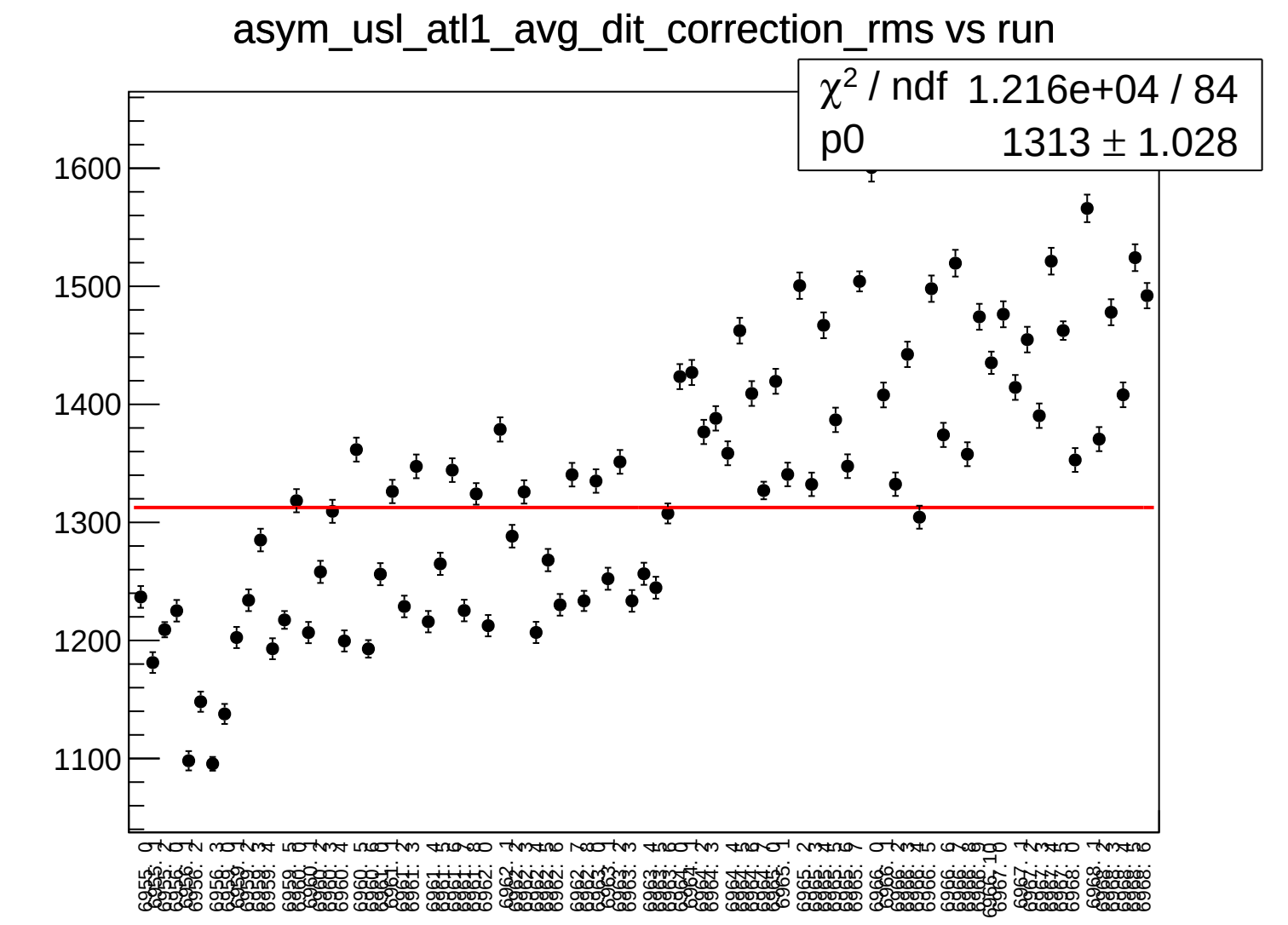

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 105.1 / 84
p0 416.2 ± 1629
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 162.6
Std Dev 0
3
2
1
0
−1
−2

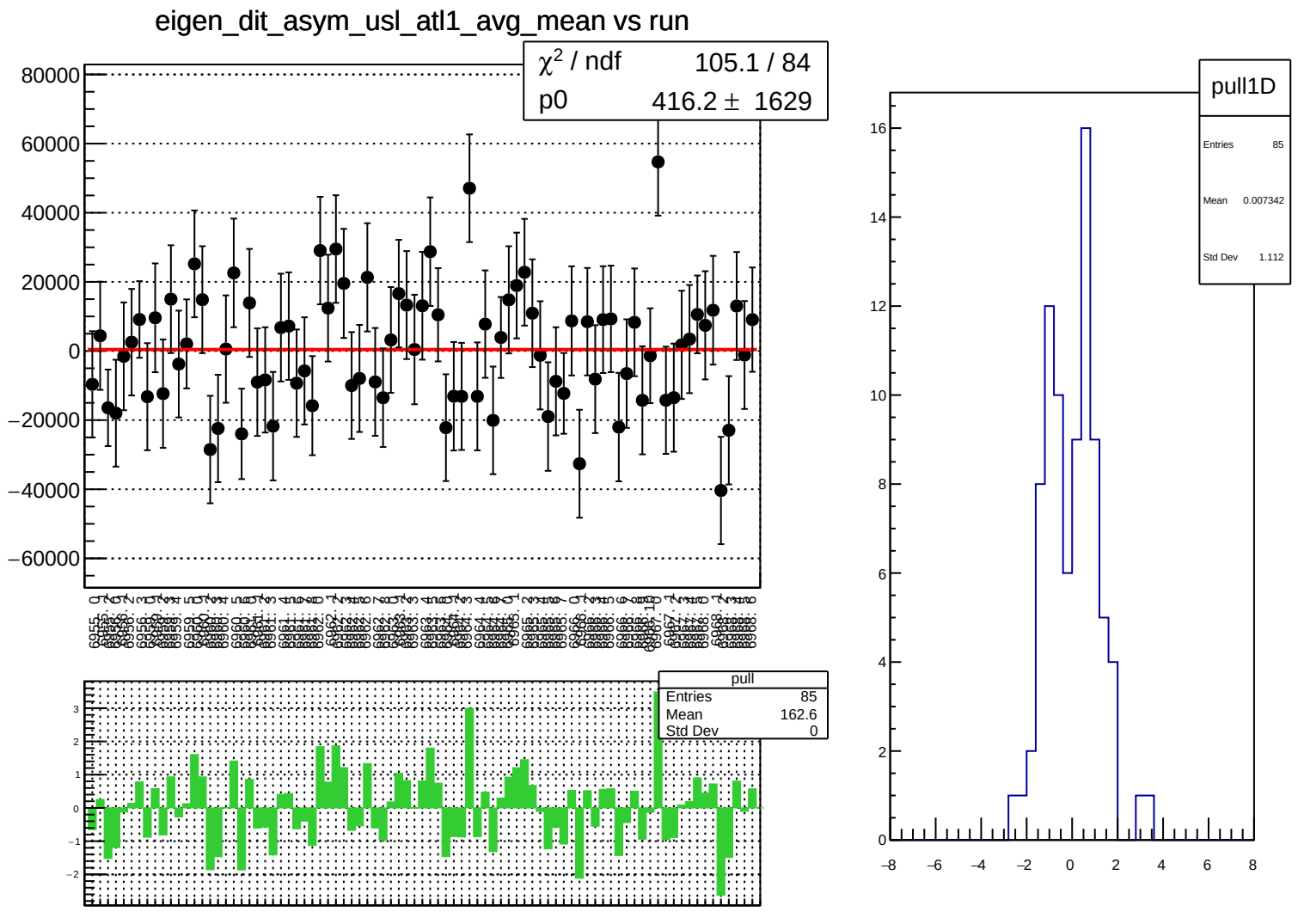

pull1D
Entries 85
Mean 0.007342
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

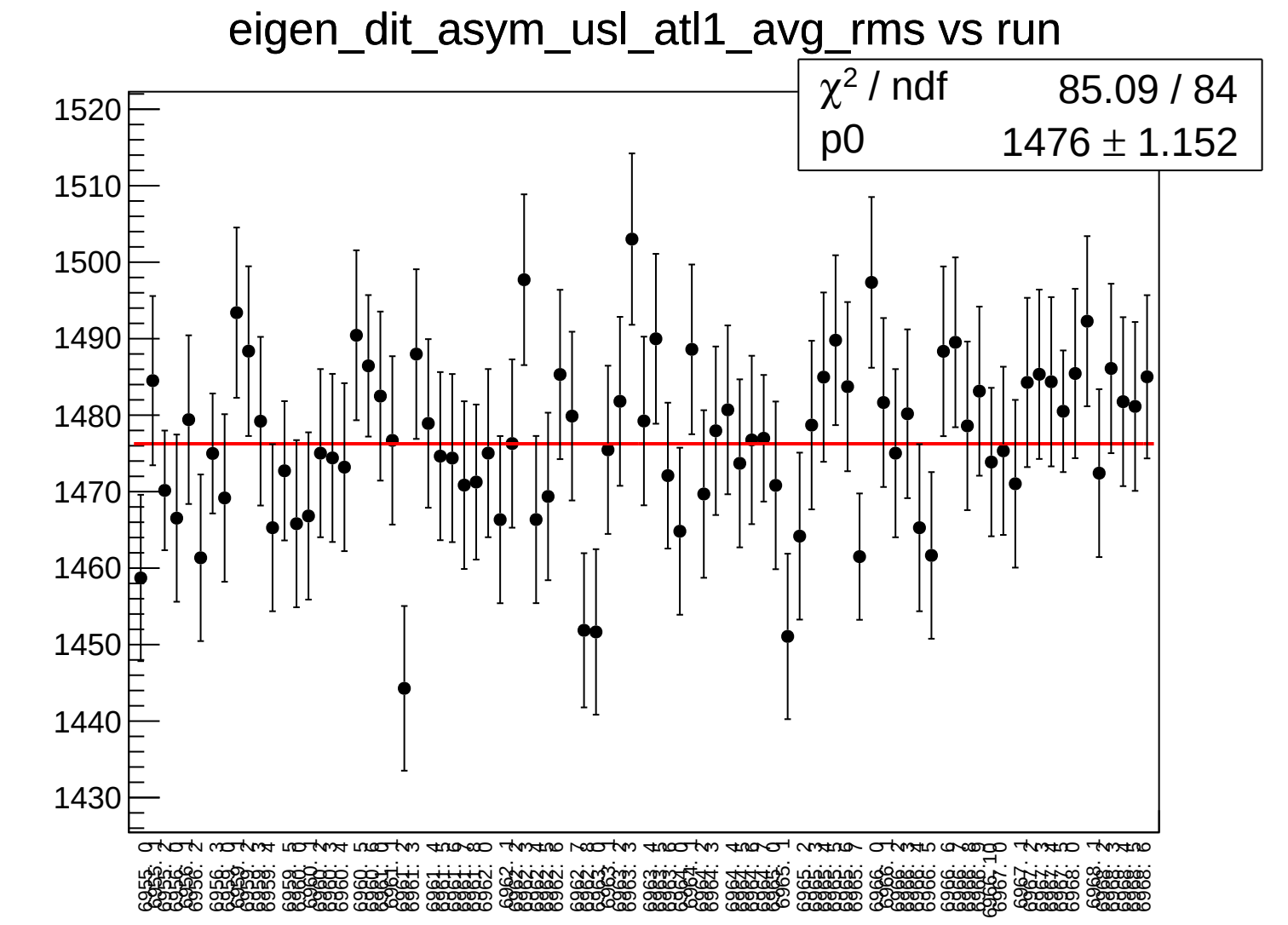

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 85.09 / 84
p0 1476 ± 1.152
1520
1510
1500
1490
1480
1470
1460
1450
1440
1430

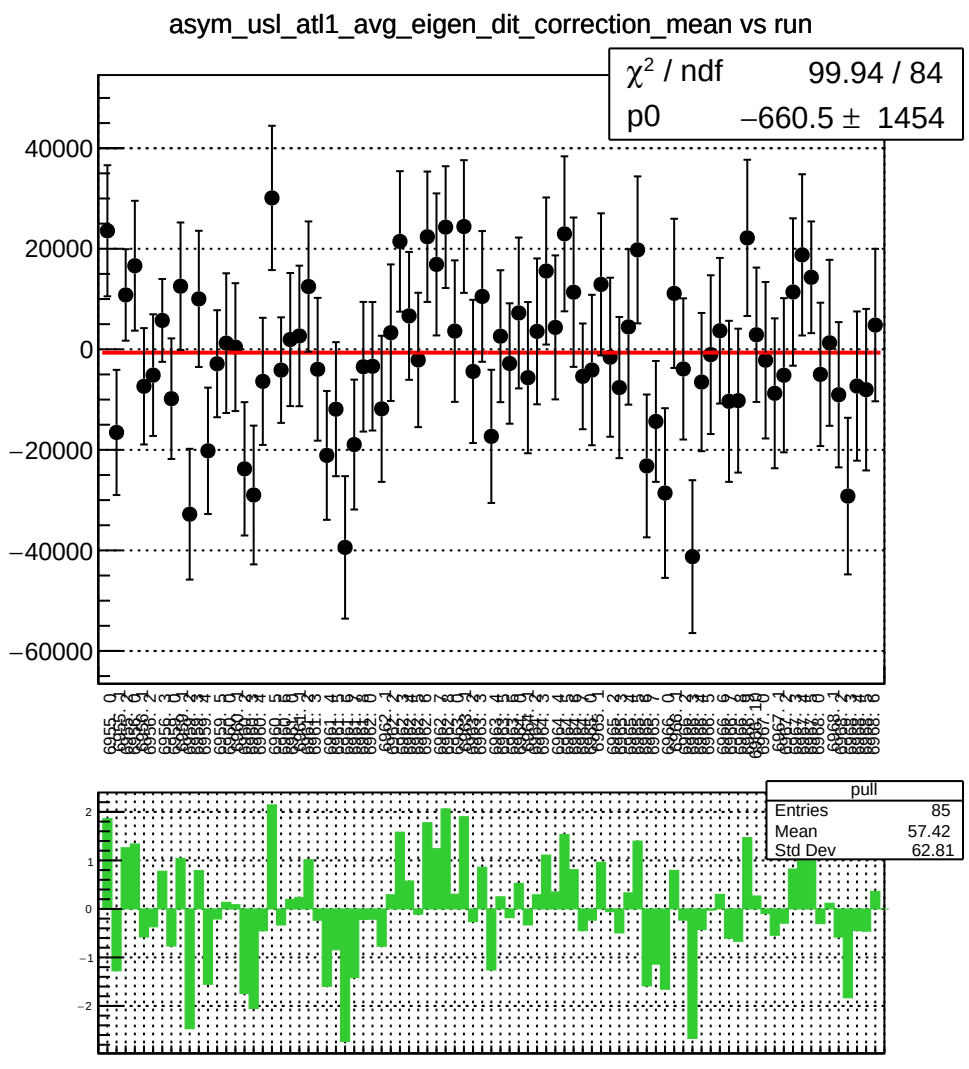

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 99.94 / 84
p0 −660.5 ± 1454
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 57.42
Std Dev 62.81
2
1
0
−1
−2

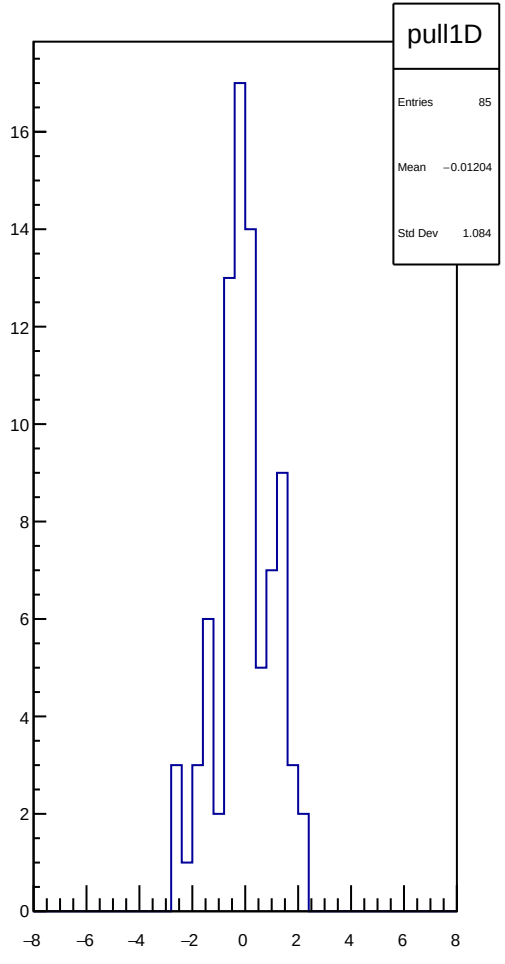

pull1D
Entries 85
Mean −0.01204
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

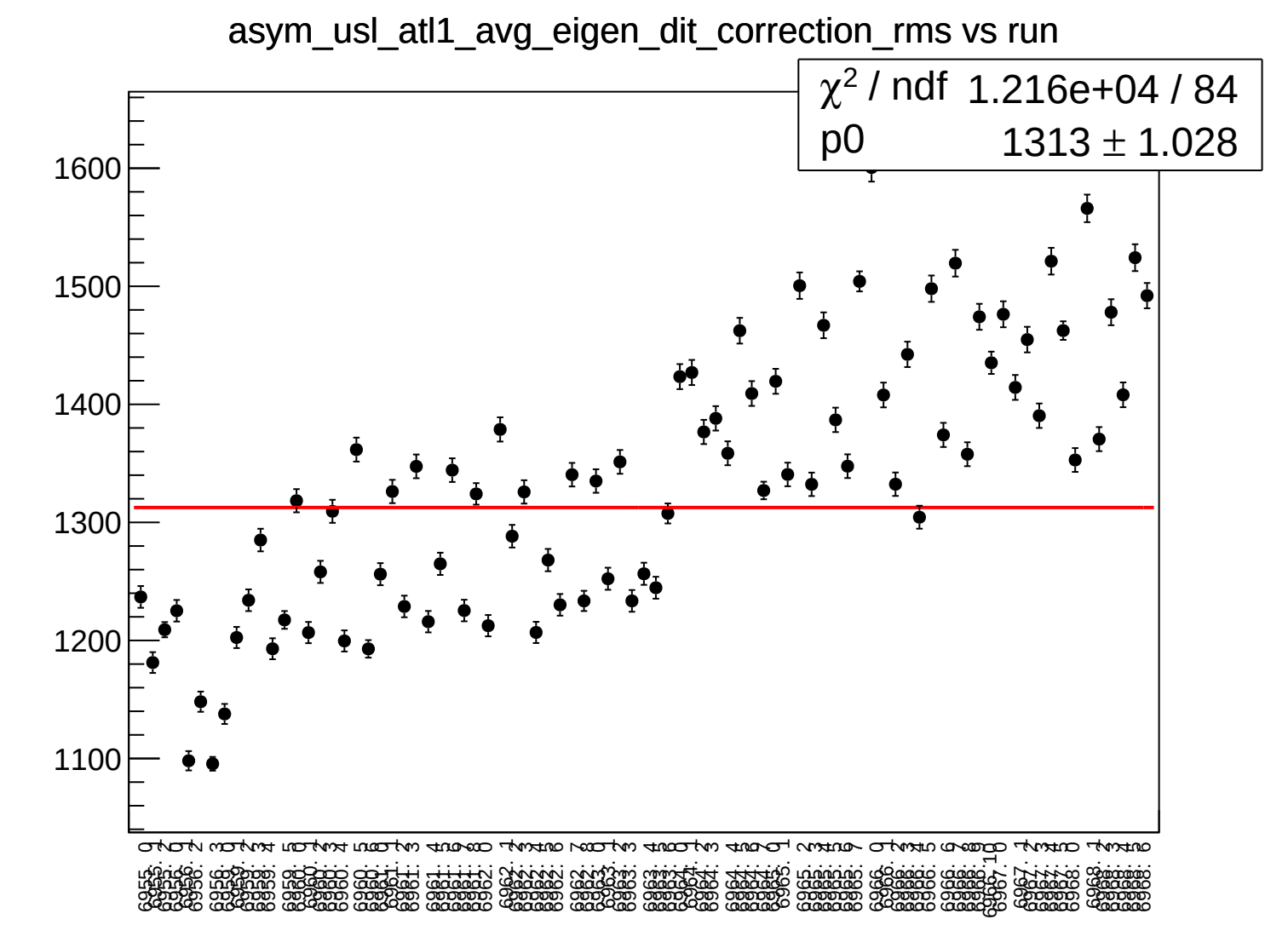

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.216e+04 / 84
p0 1313 ± 1.028
1600
1500
1400
1300
1200
1100

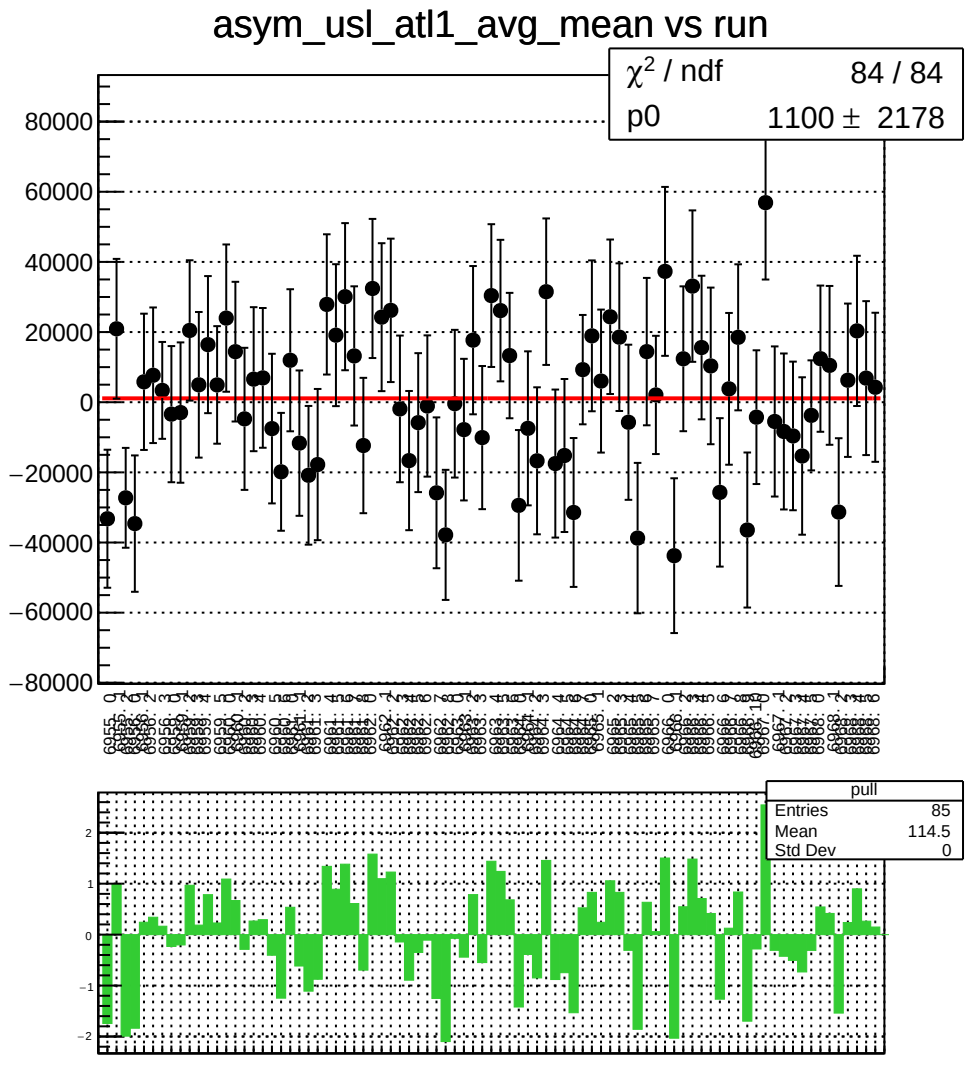

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 105.1 / 84
p0 416.2 ± 1629
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 162.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.007342
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

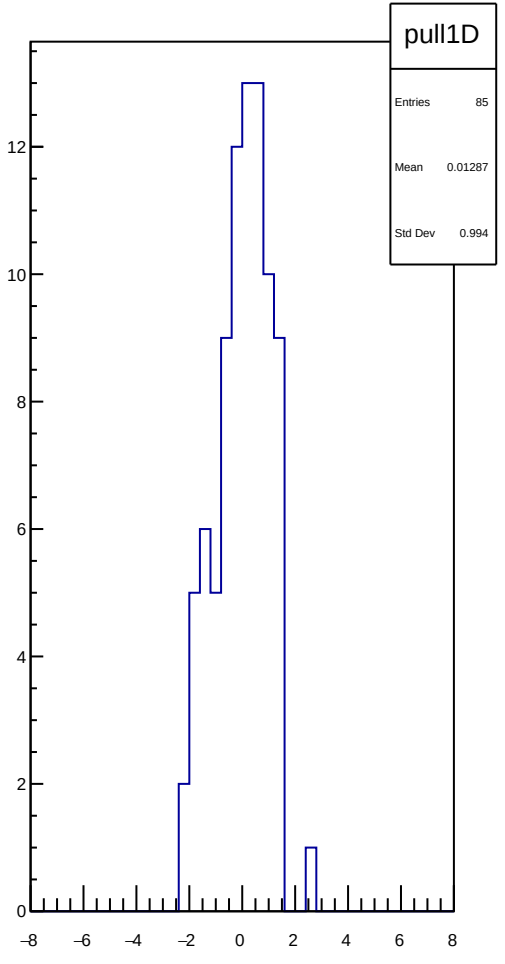

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 85.09 / 84
p0 1476 ± 1.152
1520
1510
1500
1490
1480
1470
1460
1450
1440
1430

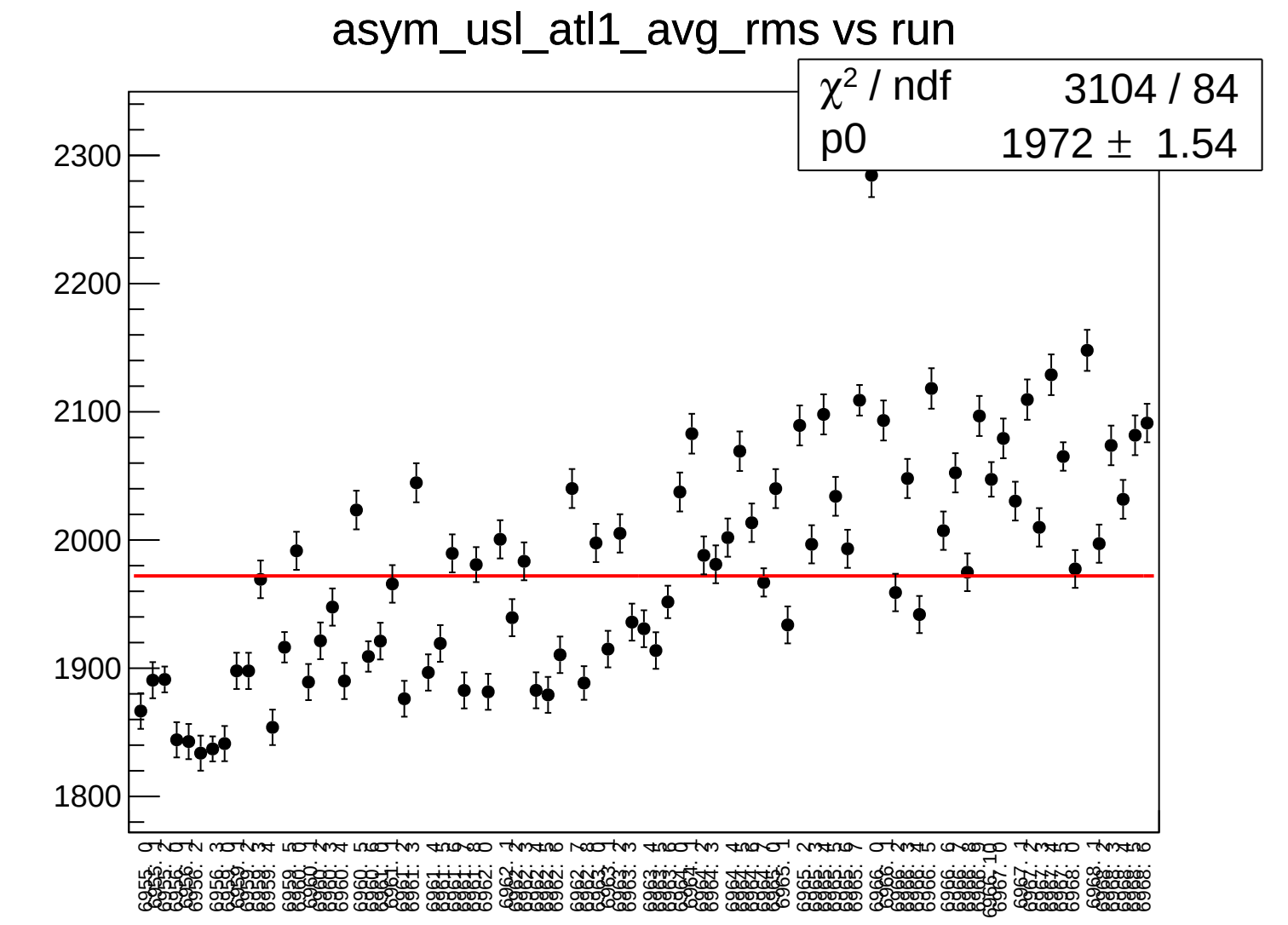

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.94 / 84
p0 −660.5 ± 1454
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 57.42
Std Dev 62.81
2
1
0
−1
−2

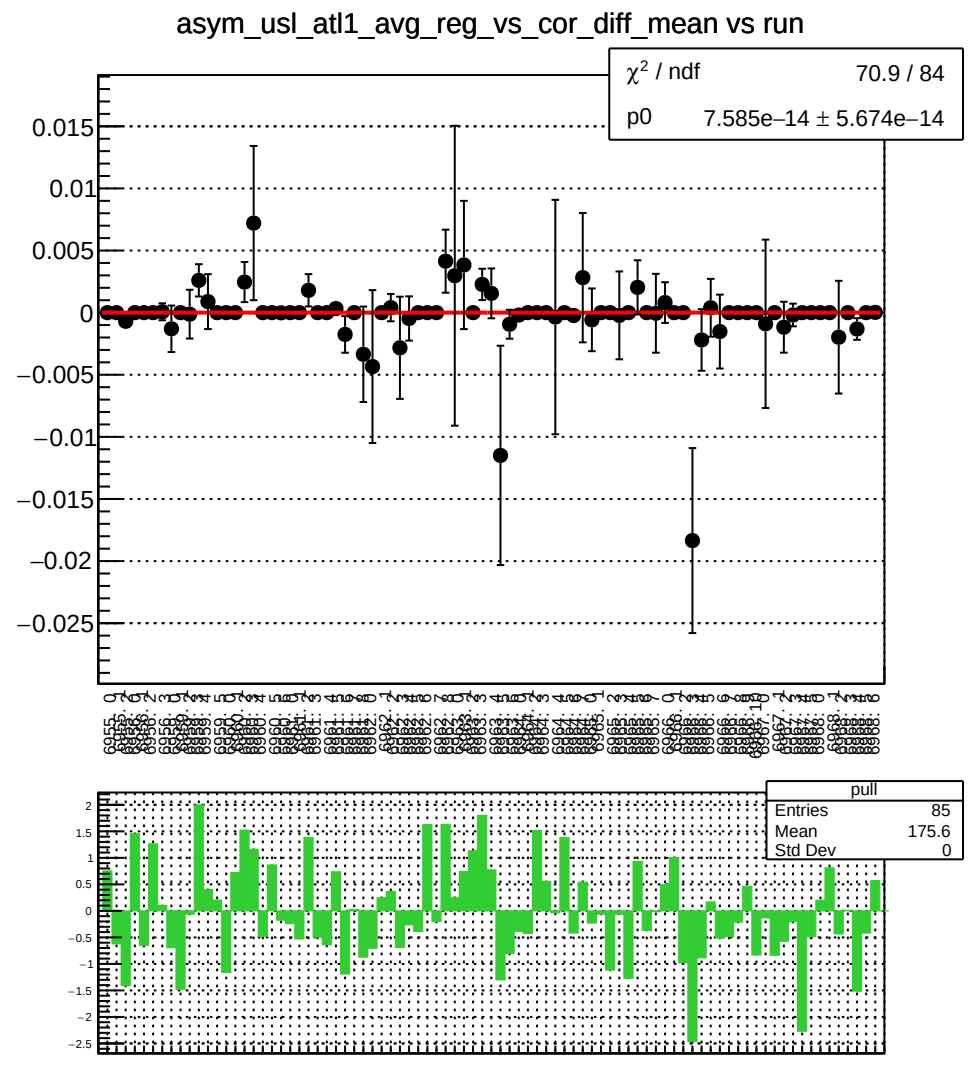

pull1D
Entries 85
Mean −0.01204
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

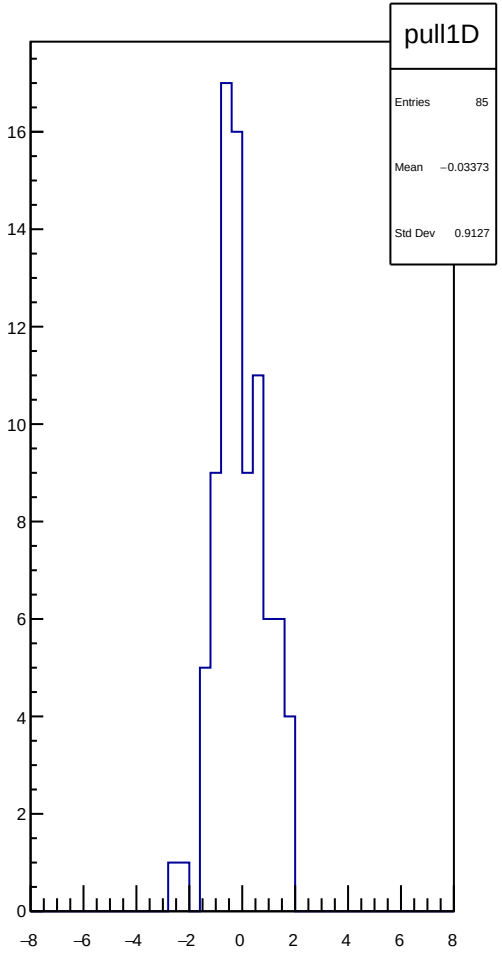

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.216e+04 / 84
p0 1313 ± 1.028
1600
1500
1400
1300
1200
1100

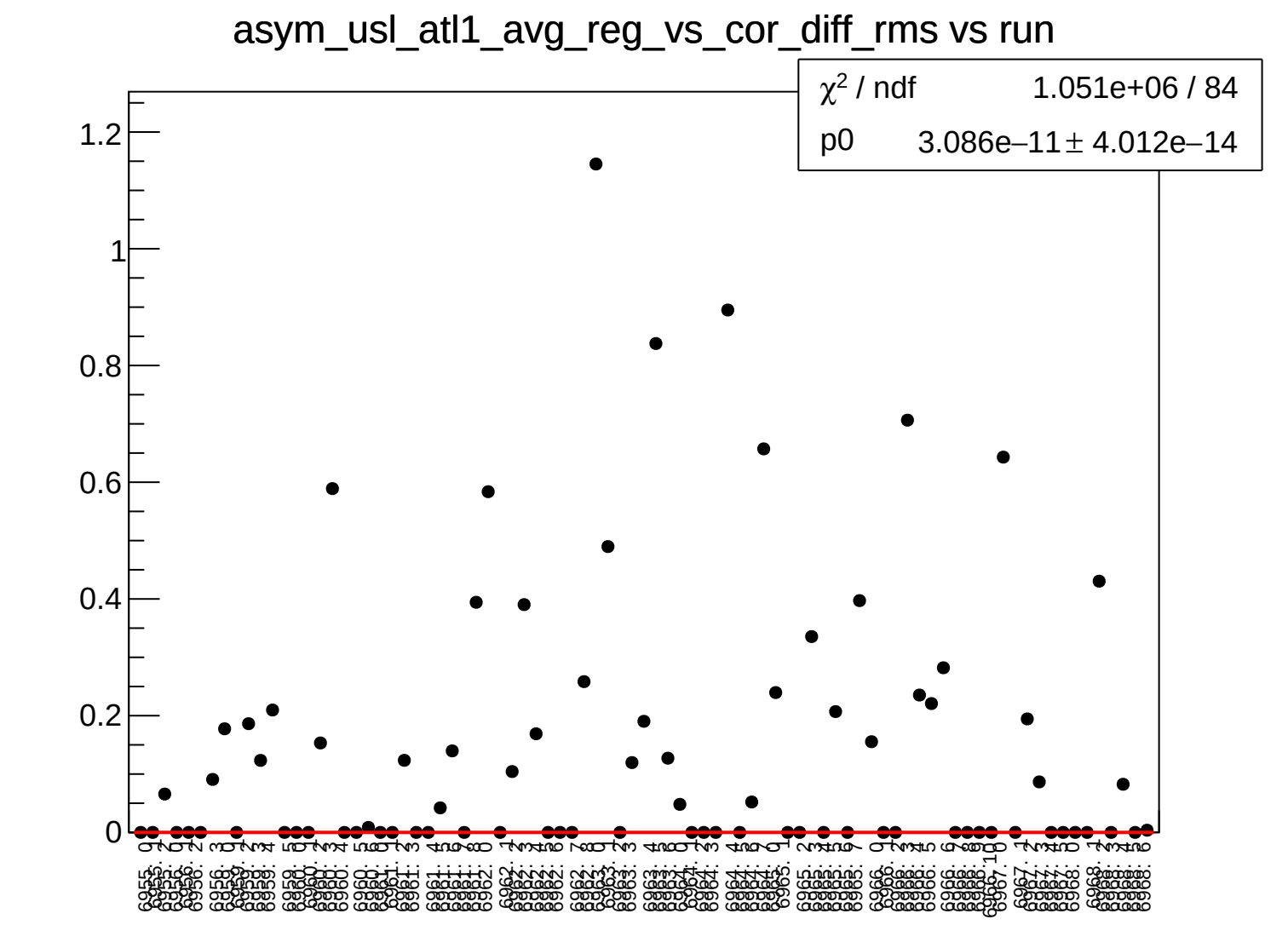

asym_usl_atl1_avg_mean vs run
χ² / ndf 84 / 84
p0 1100 ± 2178
pull
Entries 85
Mean 114.5
Std Dev 0

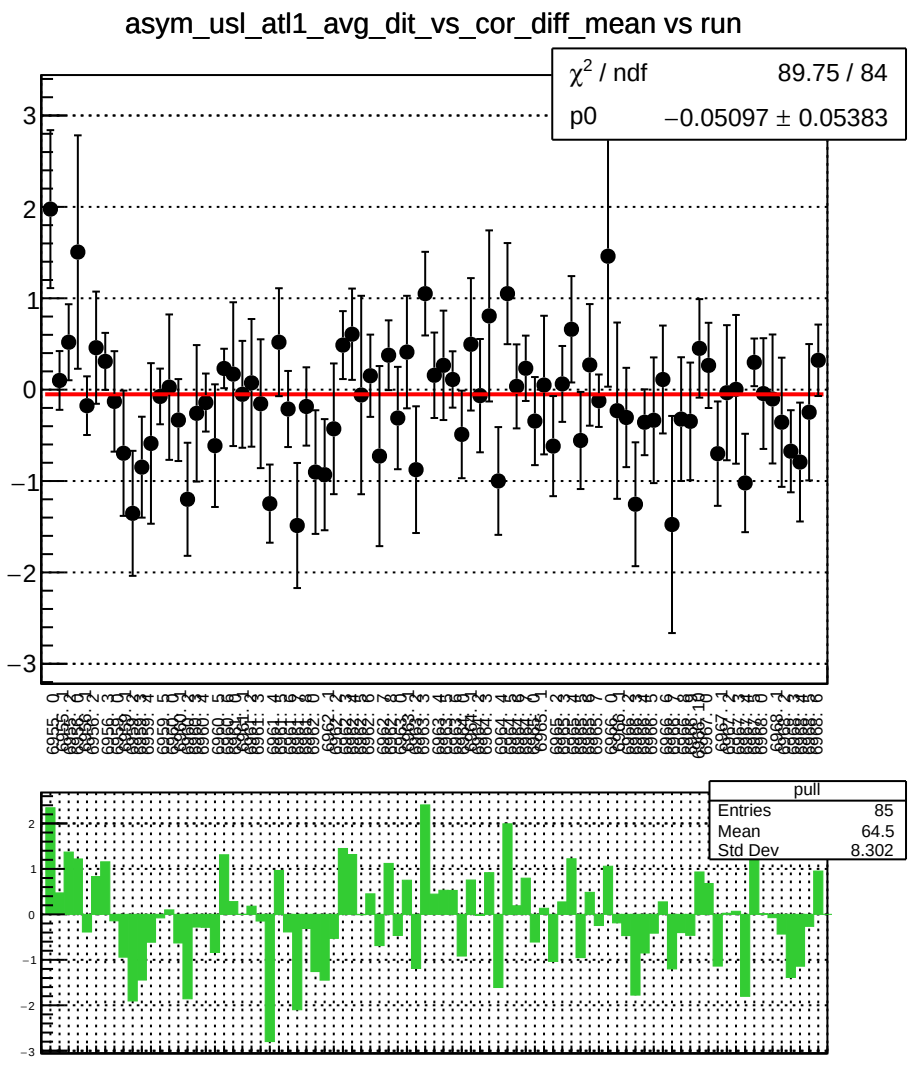

pull1D
Entries 85
Mean 0.01287
Std Dev 0.994

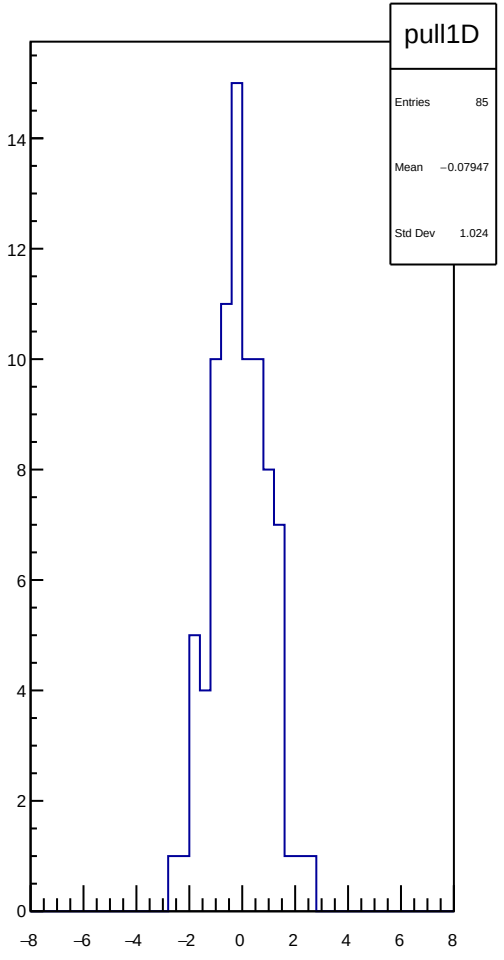

asym_usl_atl1_avg_rms vs run
χ² / ndf 3104 / 84
p0 1972 ± 1.54
2300
2200
2100
2000
1900
1800

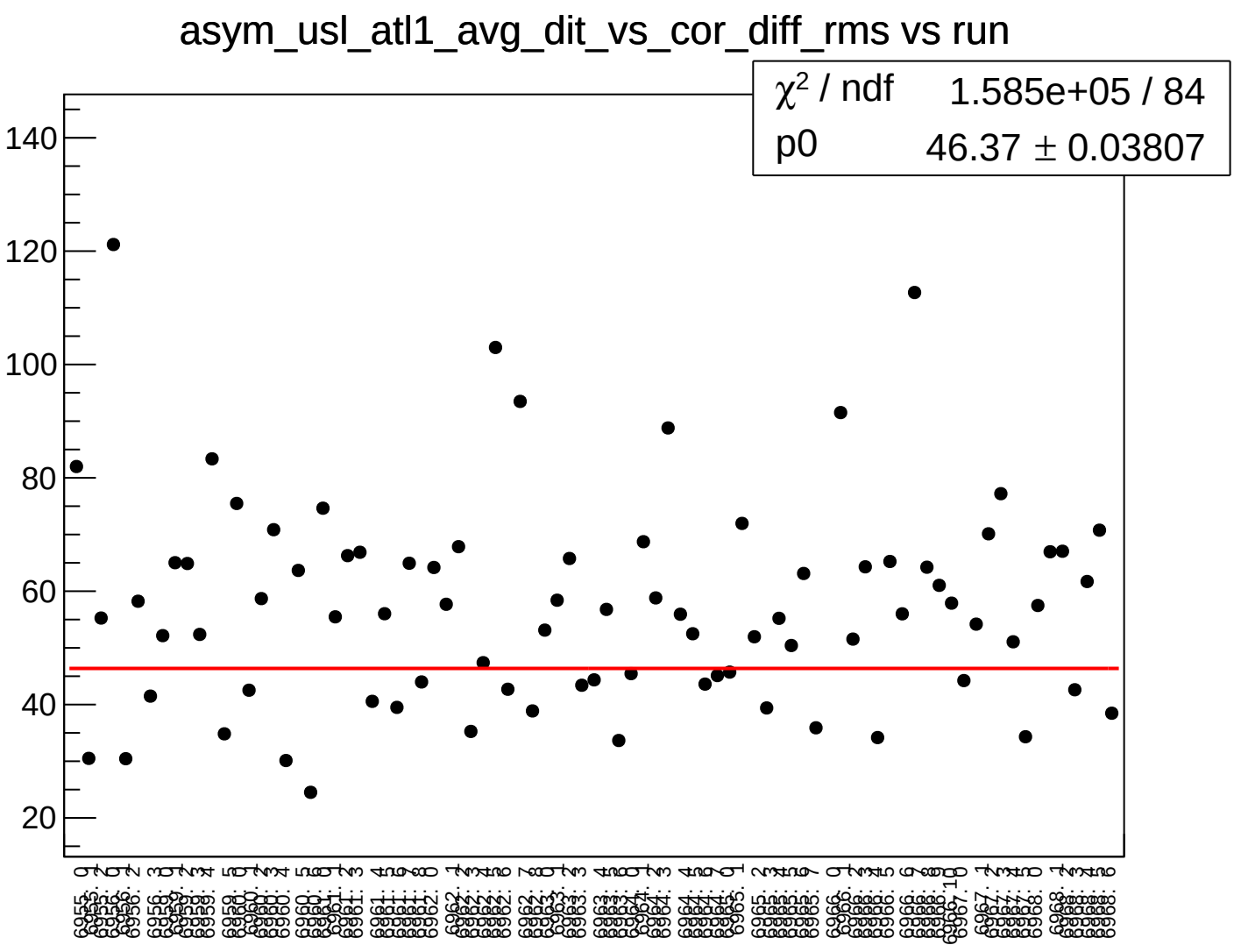

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.9 / 84
p0 7.585e−14 ± 5.674e−14
pull
Entries 85
Mean 175.6
Std Dev 0

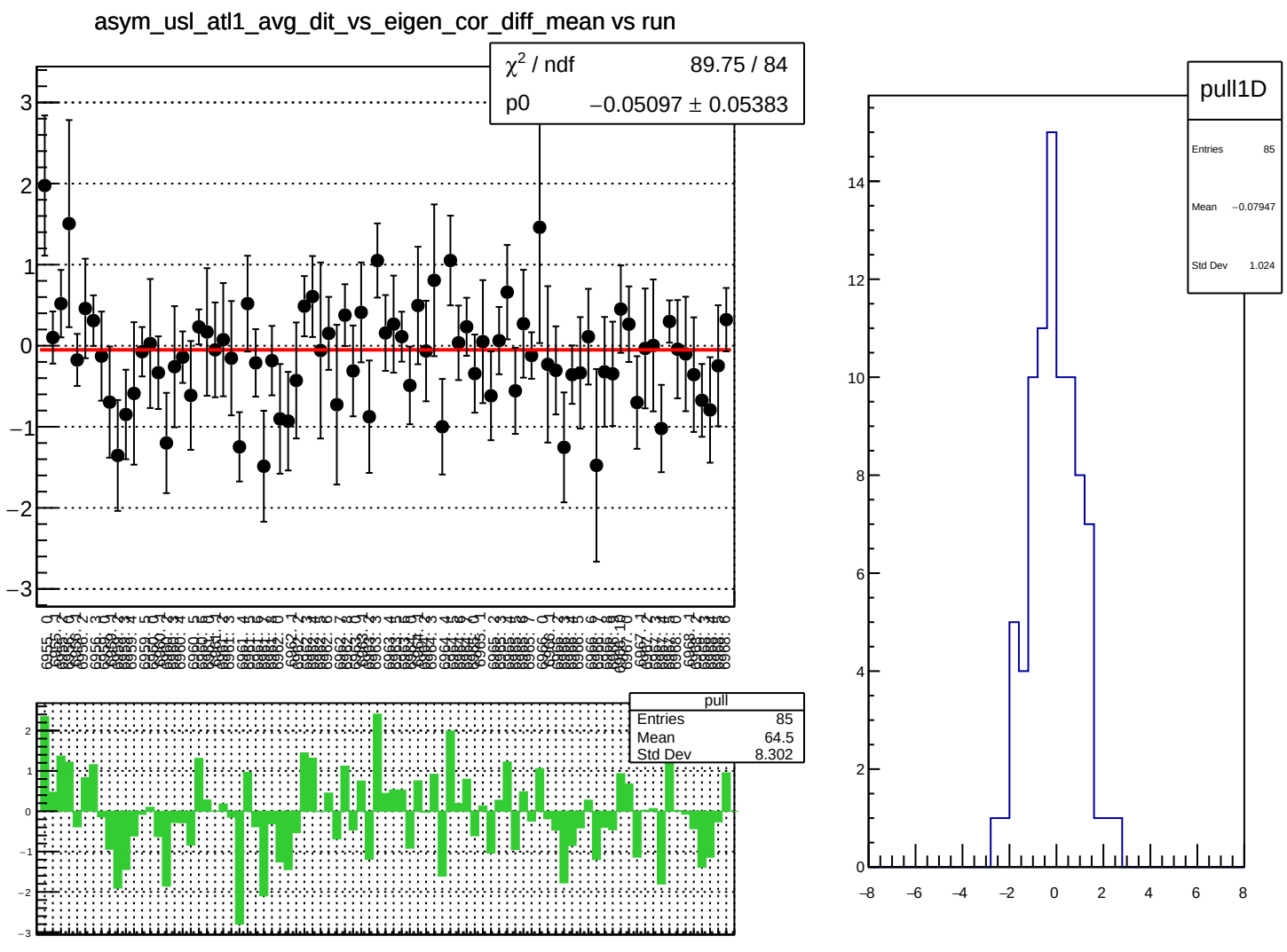

pull1D
Entries 85
Mean −0.03373
Std Dev 0.9127

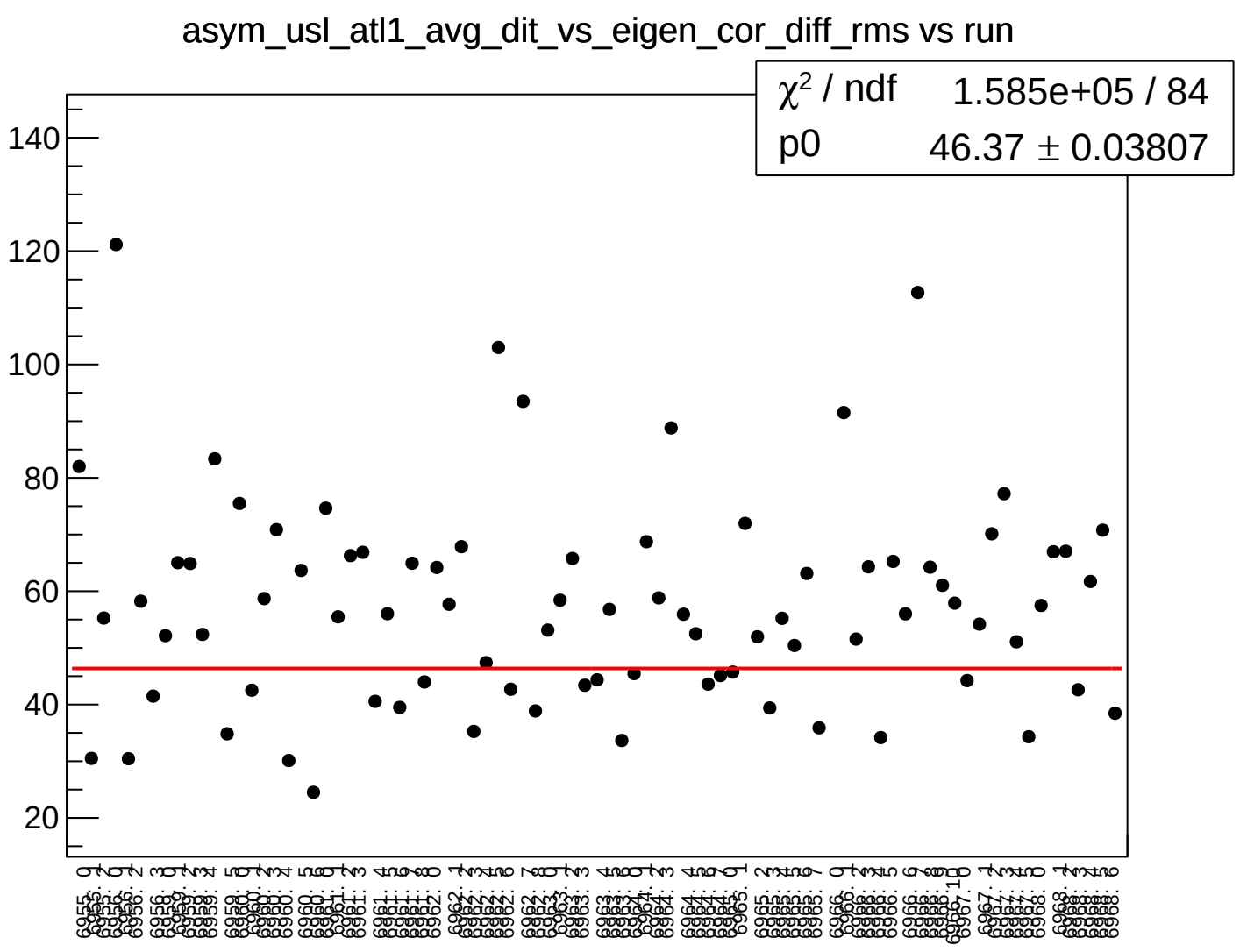

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 84
p0 3.086e−11 ± 4.012e−14
1.2
1
0.8
0.6
0.4
0.2
0

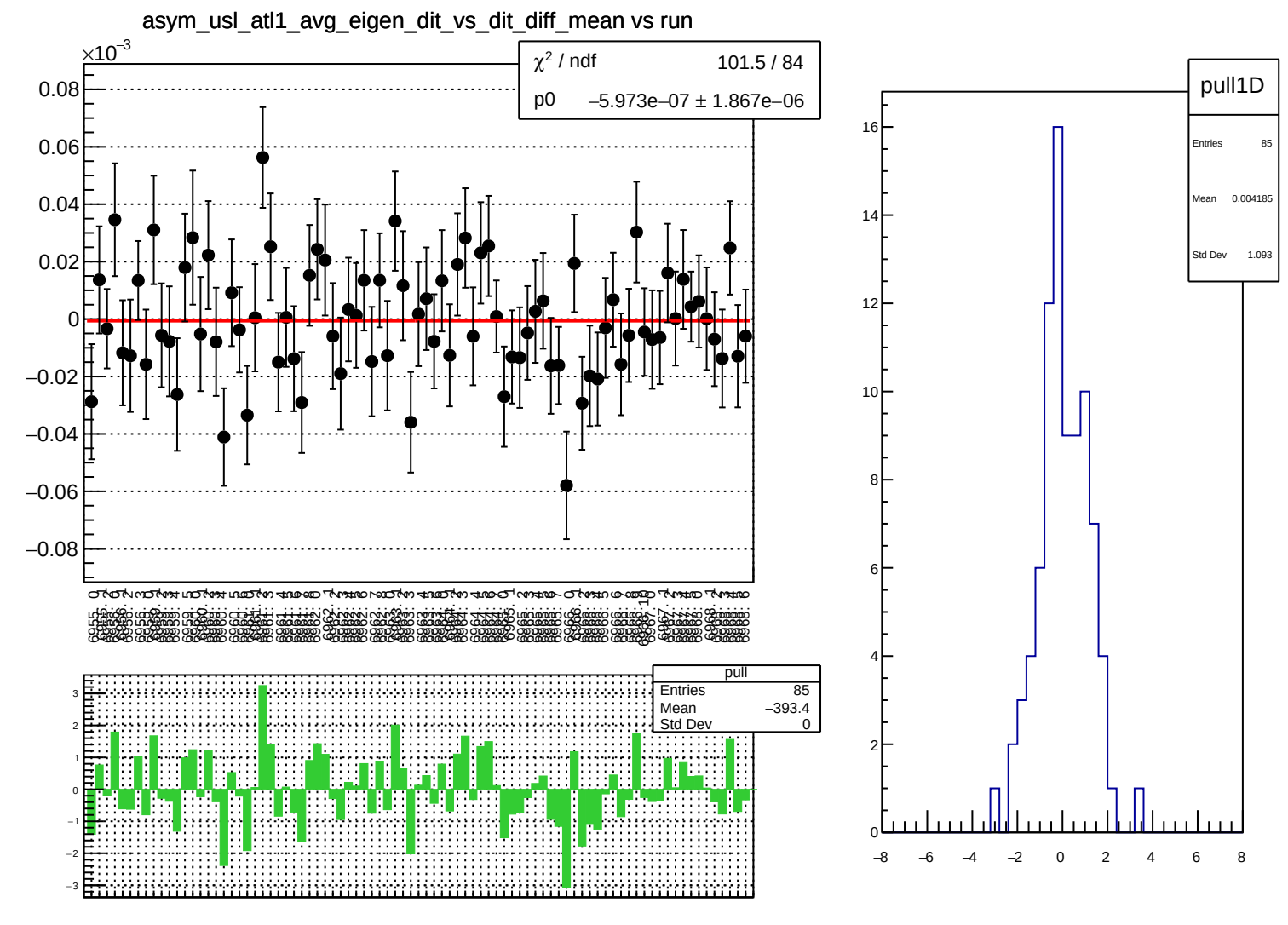

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.75 / 84
p0 −0.05097 ± 0.05383
pull
Entries 85
Mean 64.5
Std Dev 8.302

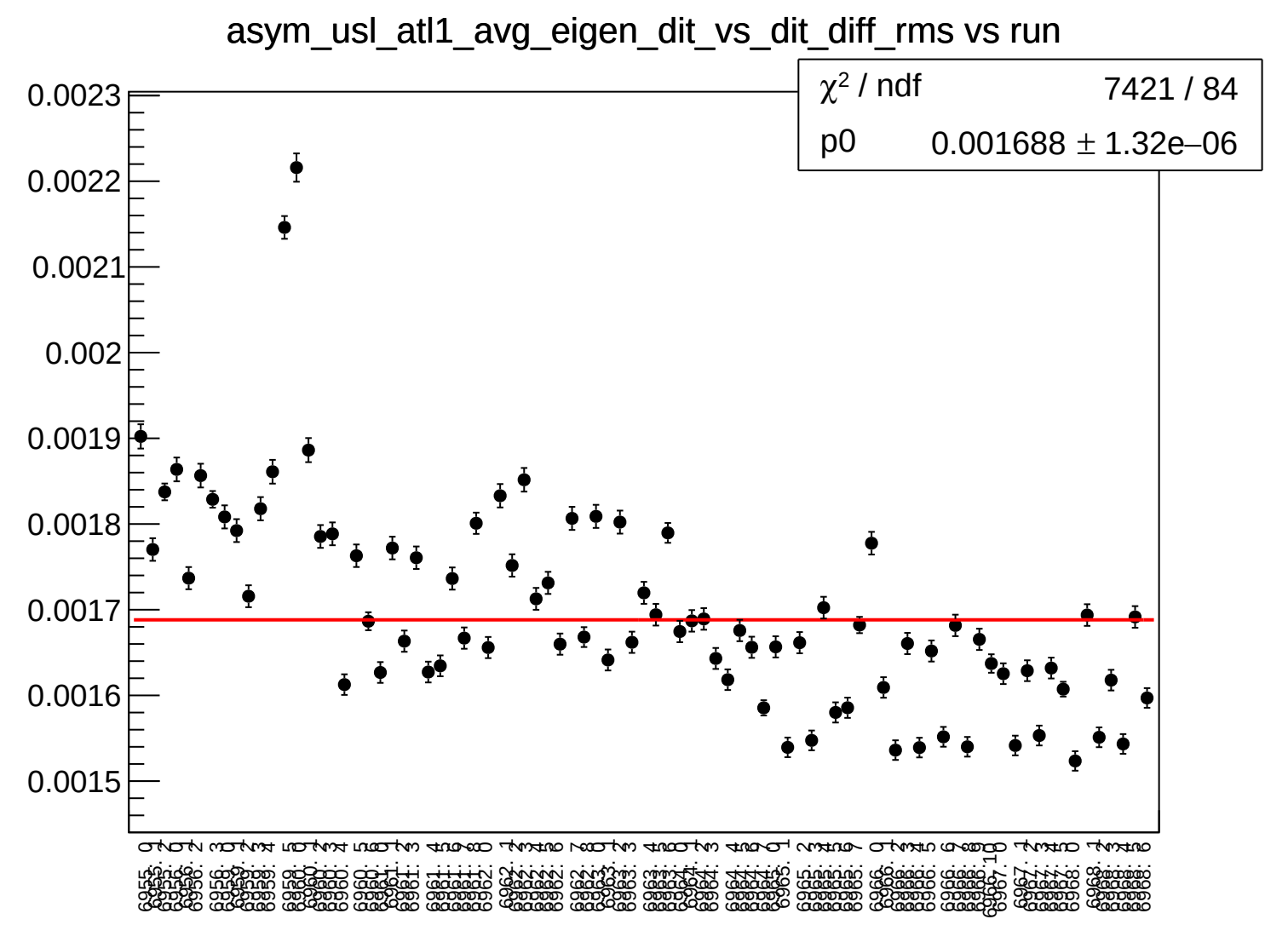

pull1D
Entries 85
Mean −0.07947
Std Dev 1.024

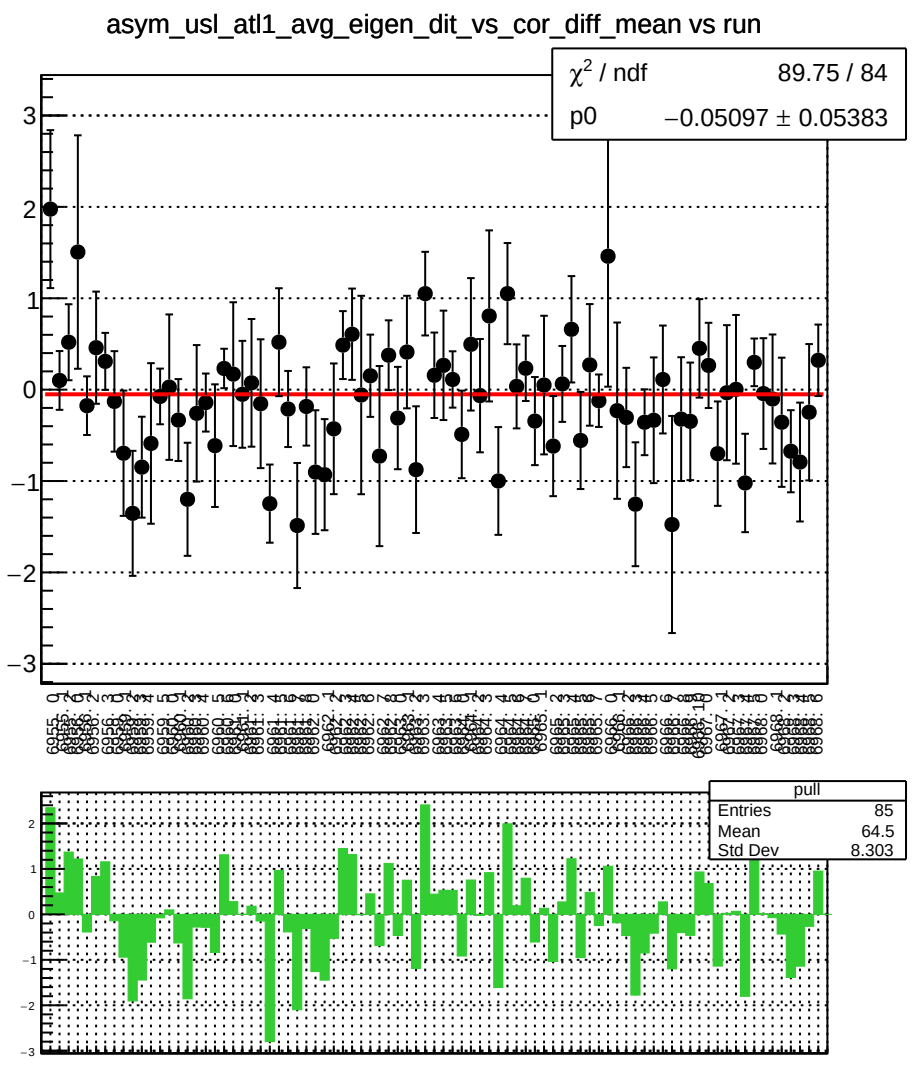

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.585e+05 / 84
p0 46.37 ± 0.03807
140
120
100
80
60
40
20

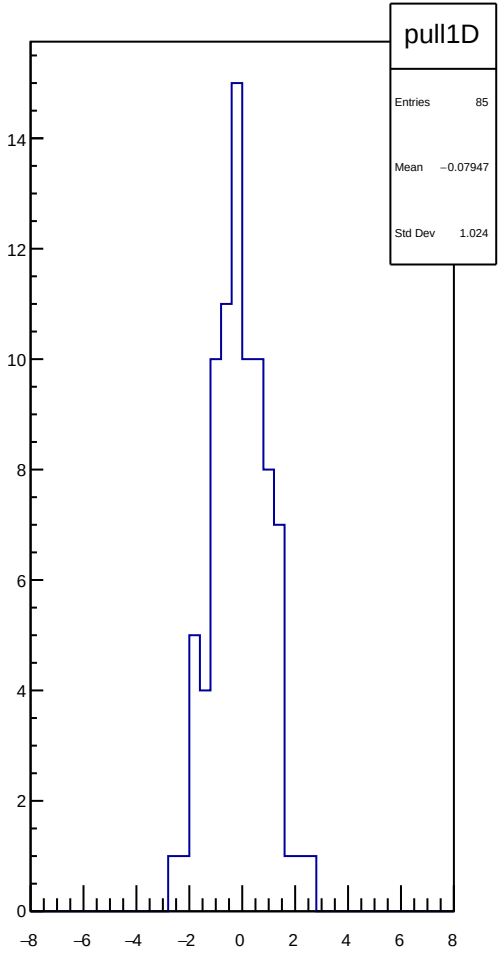

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.75 / 84
p0 −0.05097 ± 0.05383
pull
Entries 85
Mean 64.5
Std Dev 8.302
pull1D
Entries 85
Mean −0.07947
Std Dev 1.024

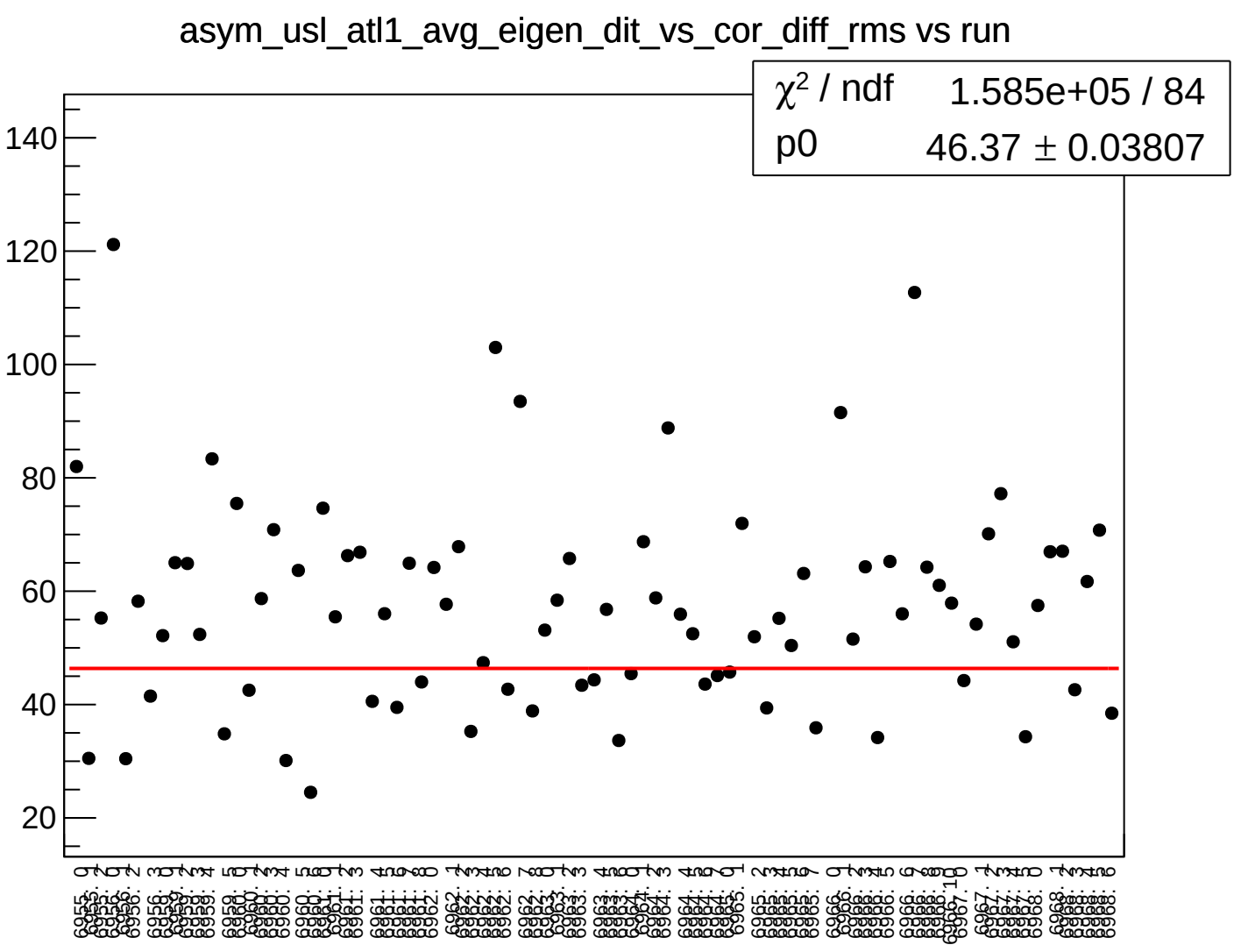

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.585e+05 / 84
p0 46.37 ± 0.03807
140
120
100
80
60
40
20

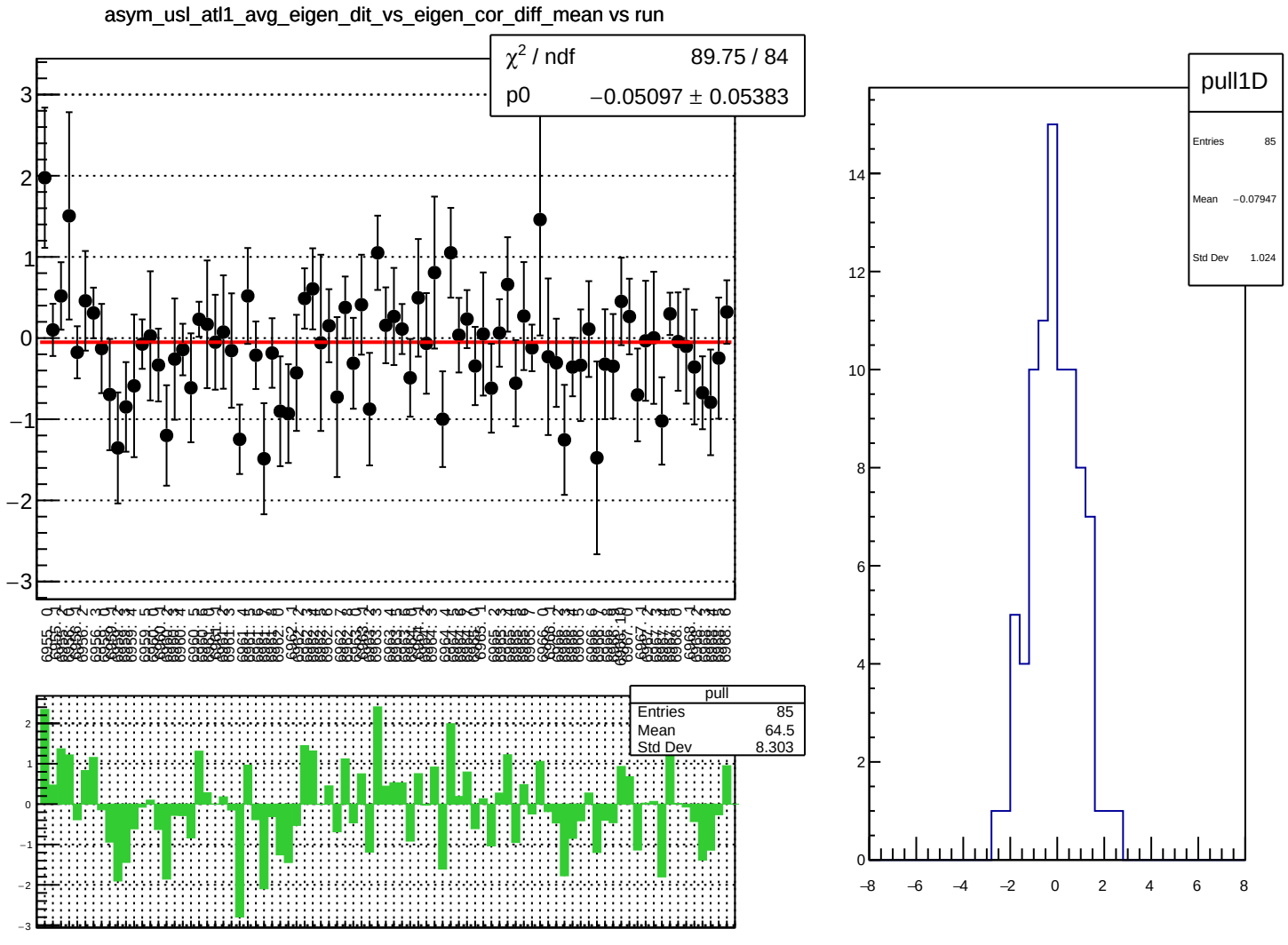

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 101.5 / 84
p0 −5.973e−07 ± 1.867e−06
×10⁻³
pull
Entries 85
Mean −393.4
Std Dev 0
pull1D
Entries 85
Mean 0.004185
Std Dev 1.093

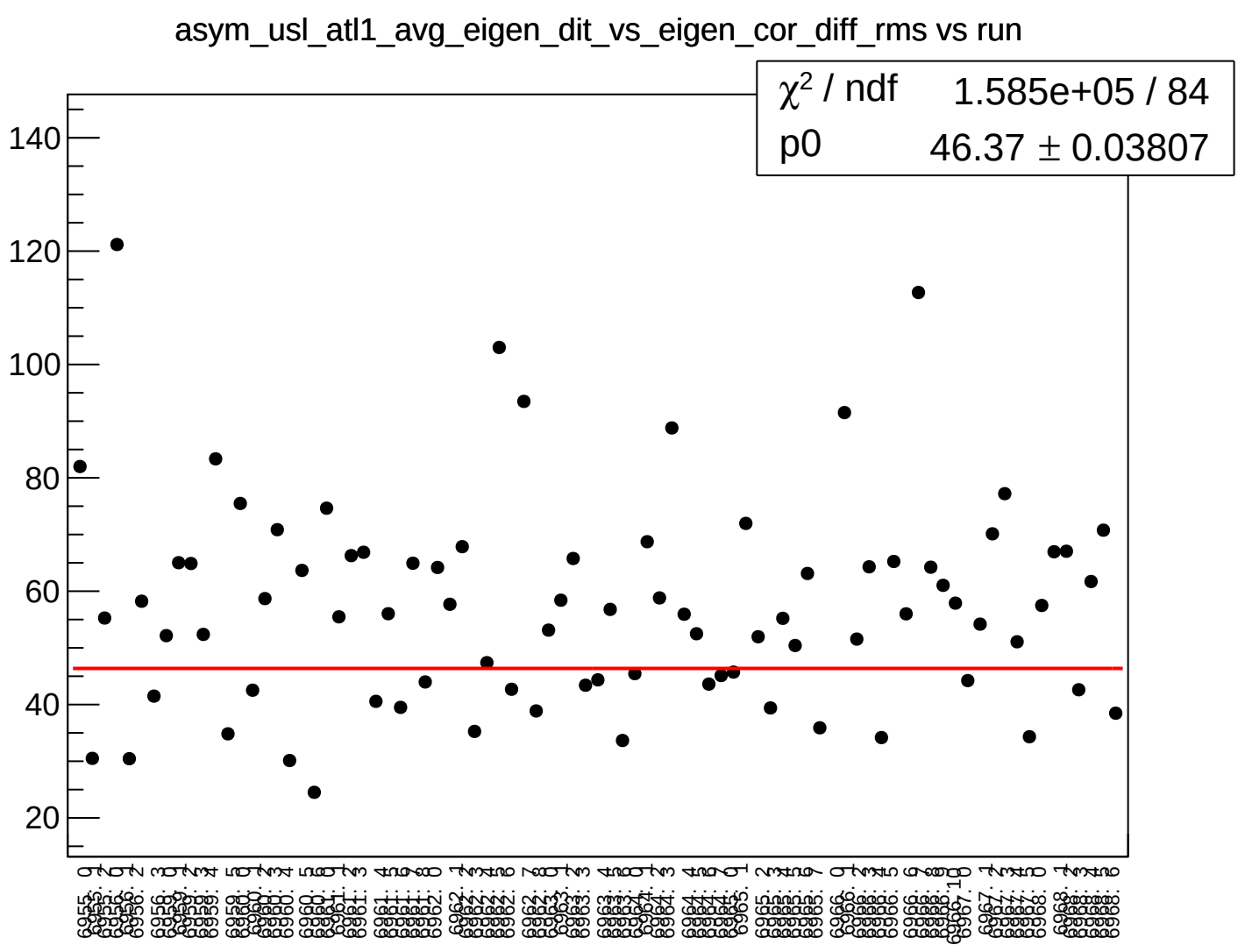

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7421 / 84
p0 0.001688 ± 1.32e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

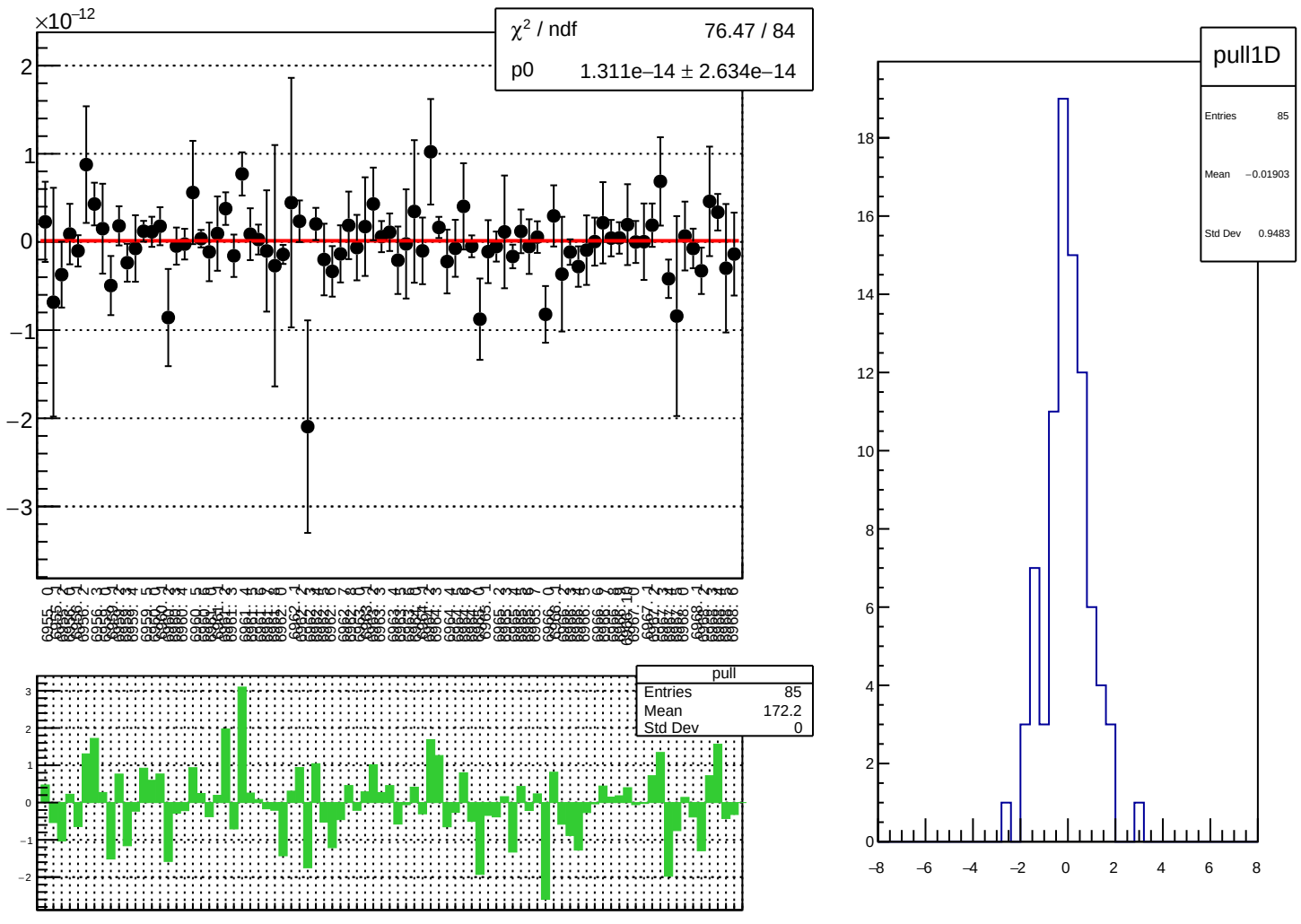

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.75 / 84
p0 −0.05097 ± 0.05383
pull
Entries 85
Mean 64.5
Std Dev 8.303

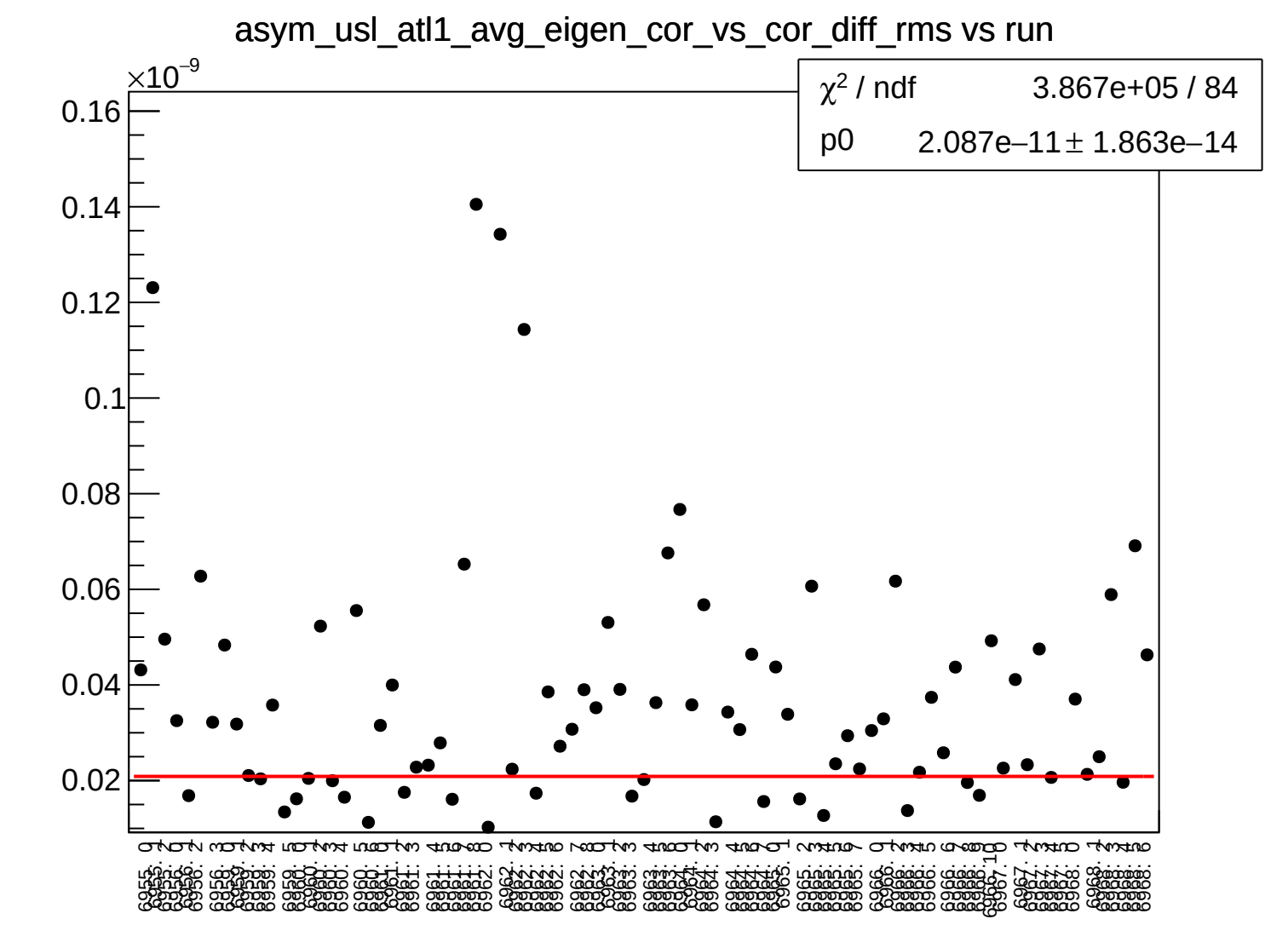

pull1D
Entries 85
Mean −0.07947
Std Dev 1.024

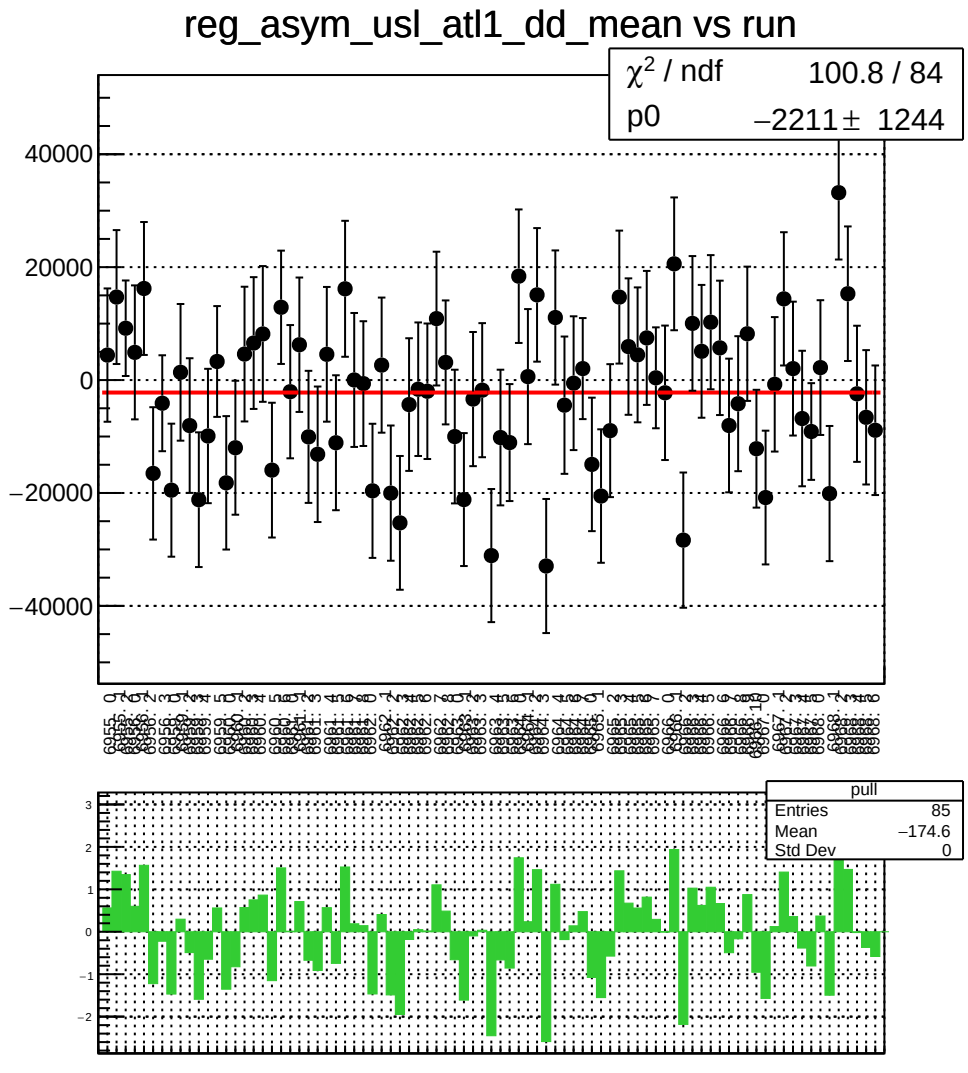

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.585e+05 / 84
p0 46.37 ± 0.03807
140
120
100
80
60
40
20

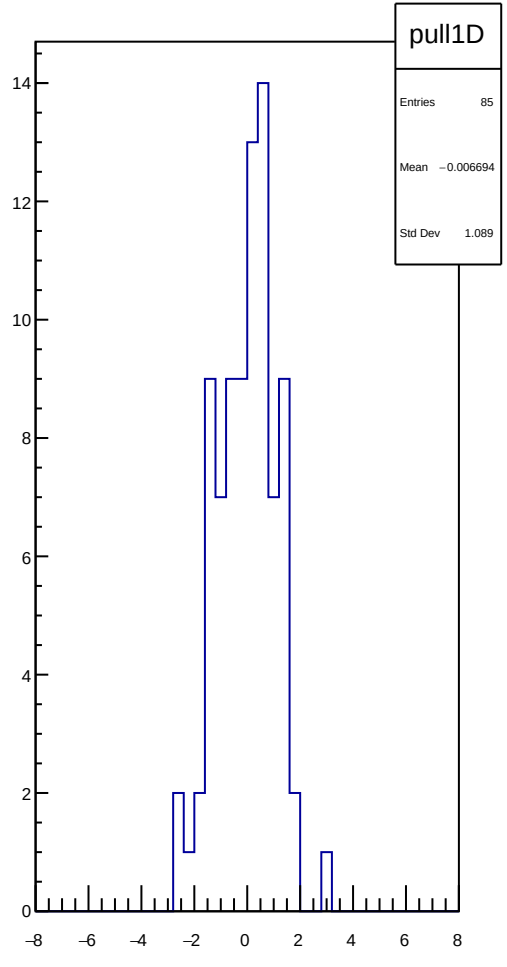

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.75 / 84
p0 −0.05097 ± 0.05383
pull
Entries 85
Mean 64.5
Std Dev 8.303
pull1D
Entries 85
Mean −0.07947
Std Dev 1.024

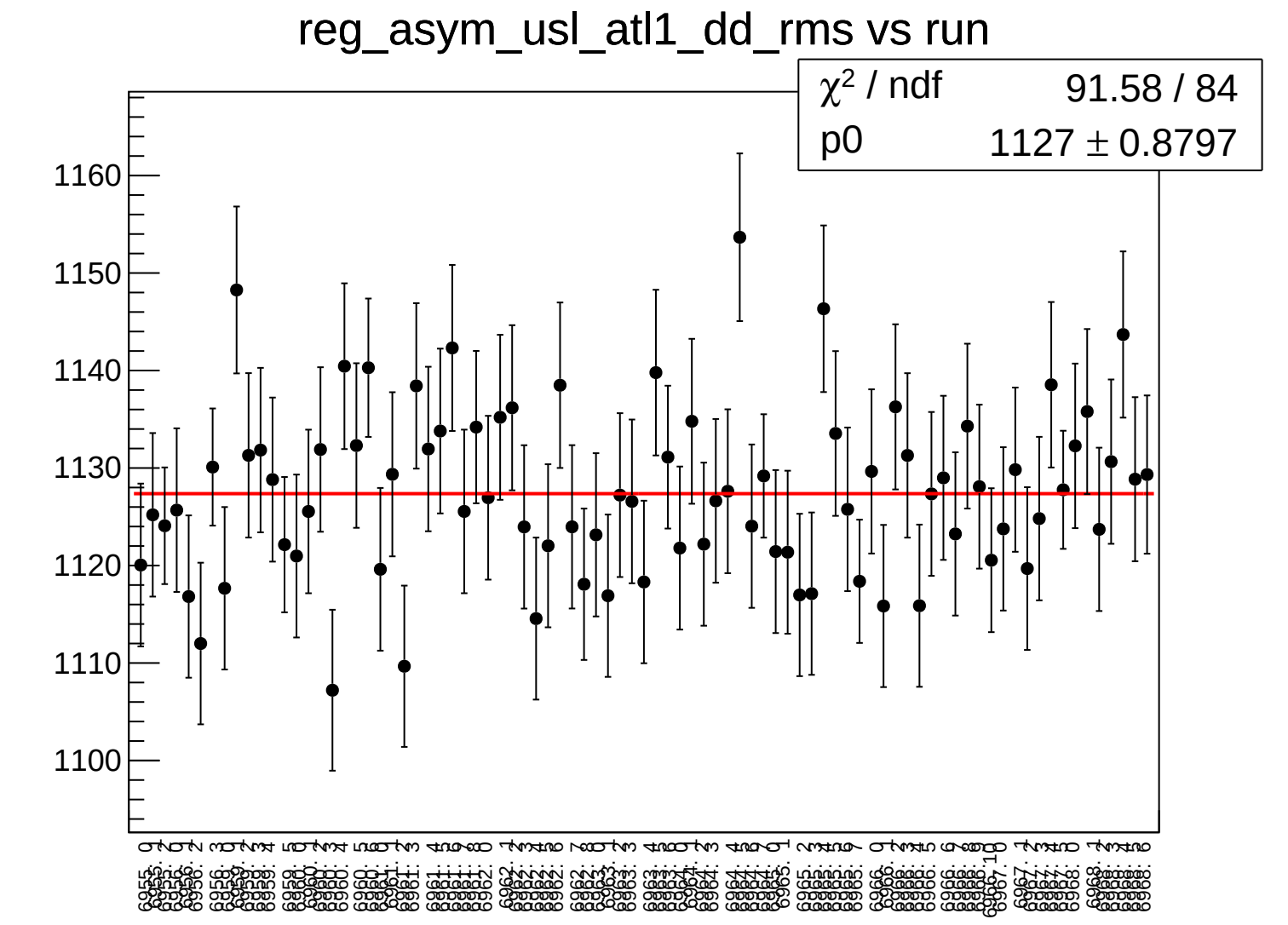

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.585e+05 / 84
p0 46.37 ± 0.03807
140
120
100
80
60
40
20

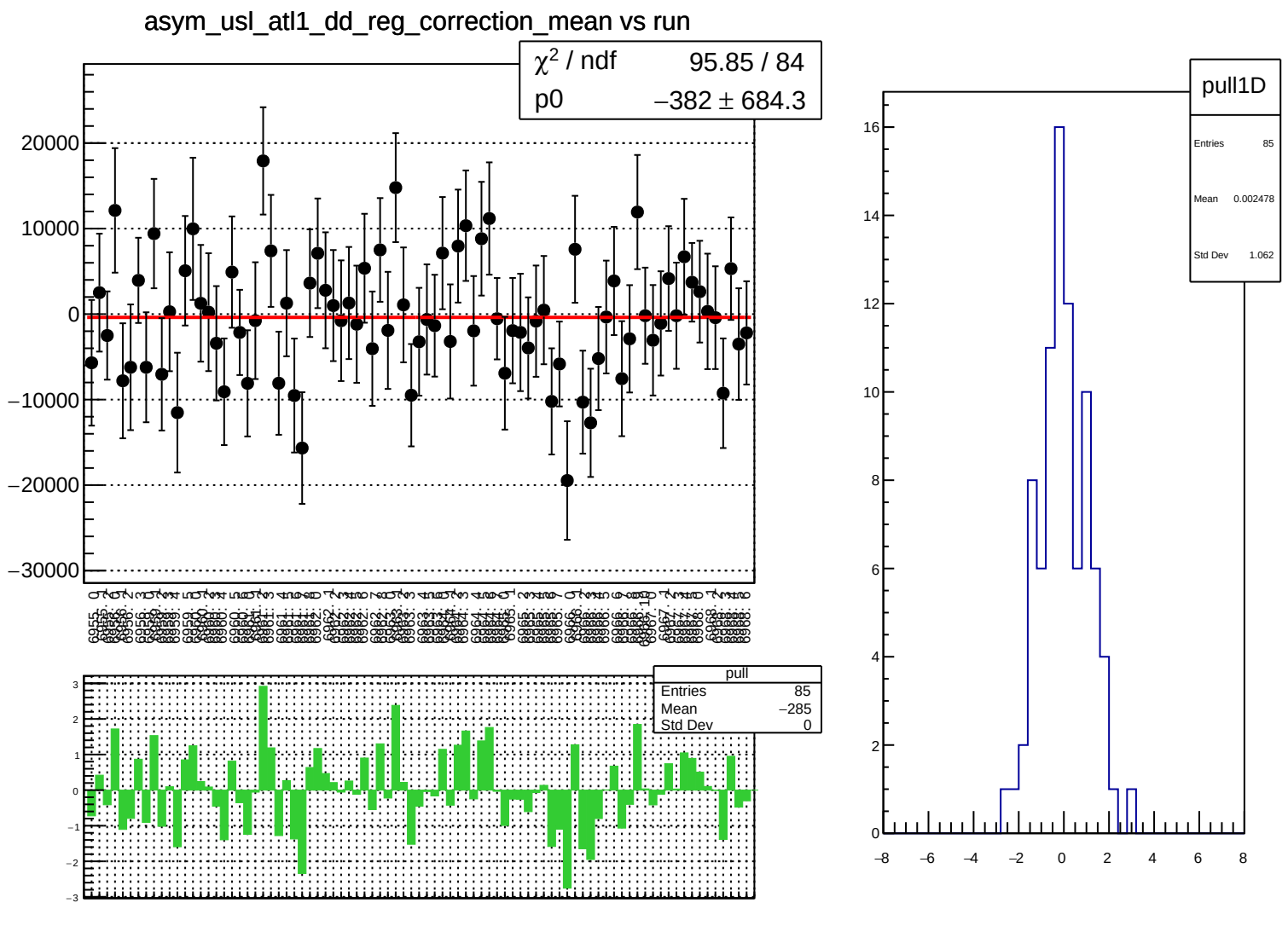

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.47 / 84
p0 1.311e−14 ± 2.634e−14
pull
Entries 85
Mean 172.2
Std Dev 0
pull1D
Entries 85
Mean −0.01903
Std Dev 0.9483

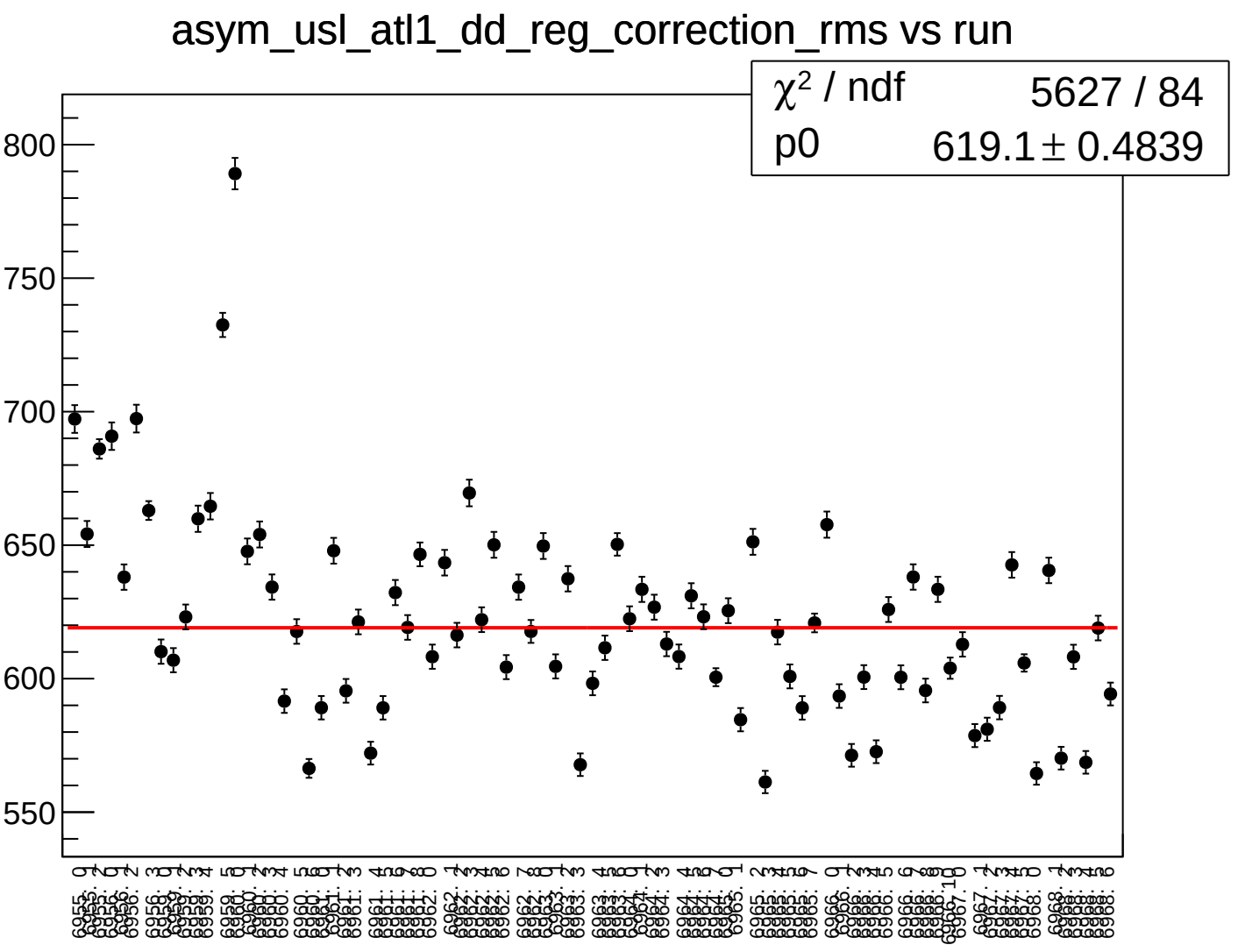

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.867e+05 / 84
p0 2.087e−11 ± 1.863e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

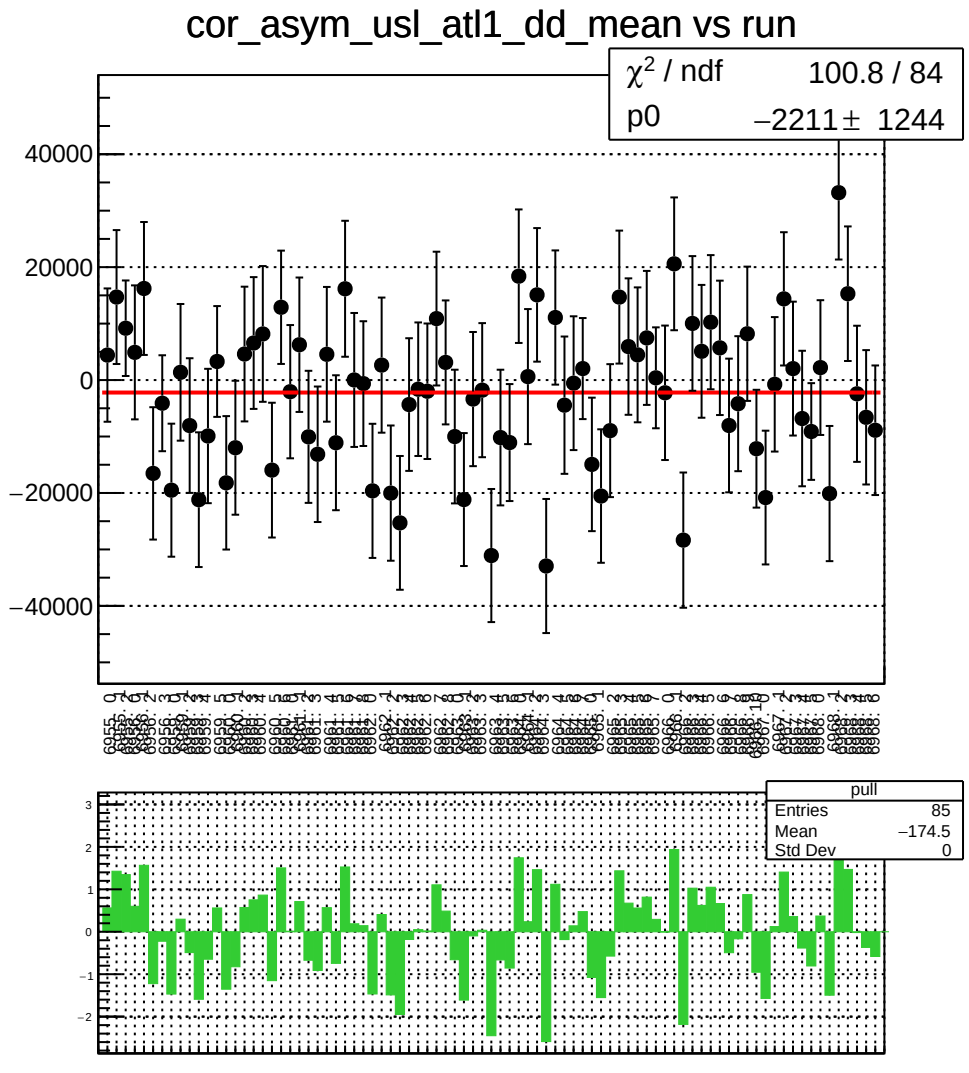

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 100.8 / 84
p0 −2211 ± 1244
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −174.6
Std Dev 0
3
2
1
0
−1
−2

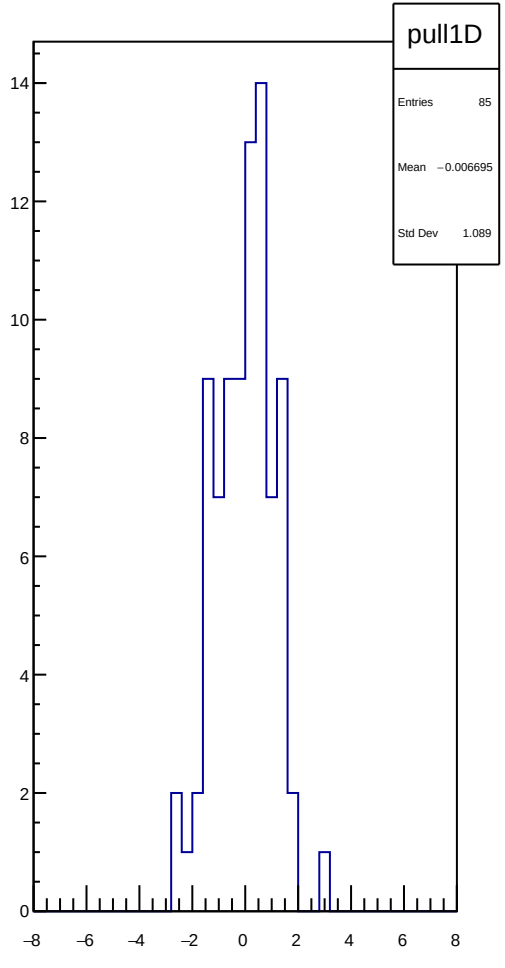

pull1D
Entries 85
Mean −0.006694
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

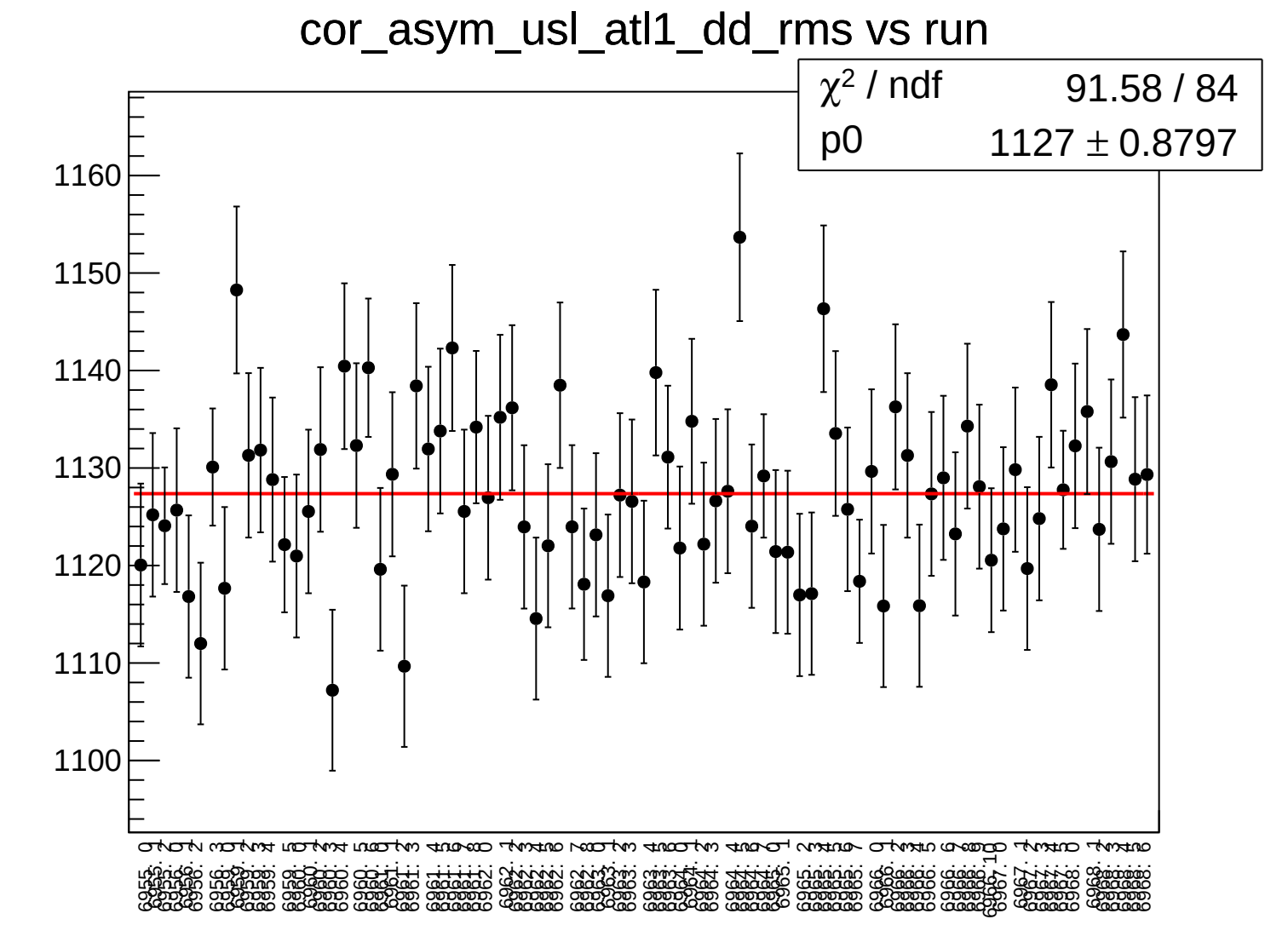

reg_asym_usl_atl1_dd_rms vs run
$\chi^2$ / ndf 91.58 / 84
p0 1127 ± 0.8797
1160
1150
1140
1130
1120
1110
1100

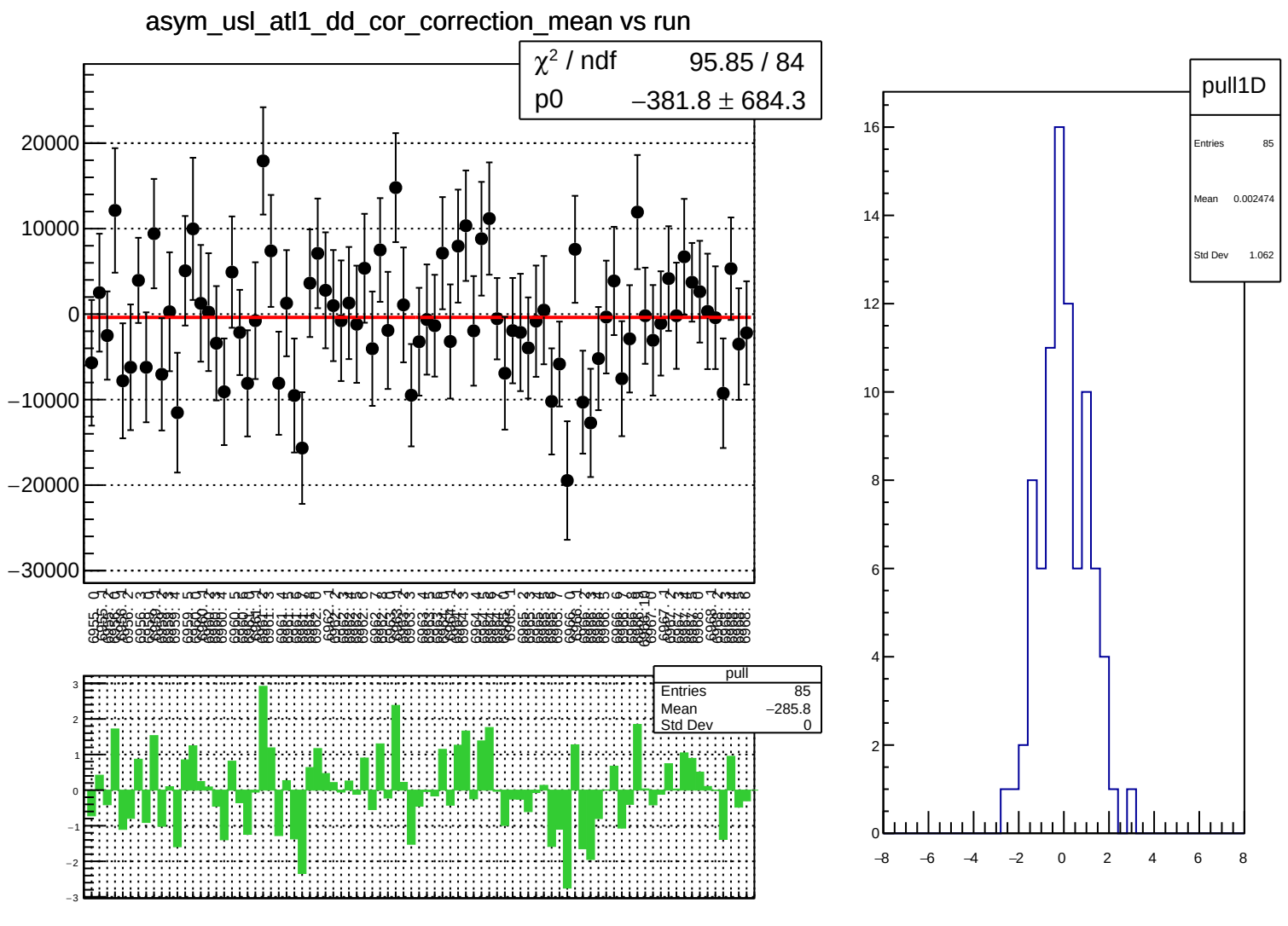

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 95.85 / 84
p0 −382 ± 684.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −285
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.002478
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

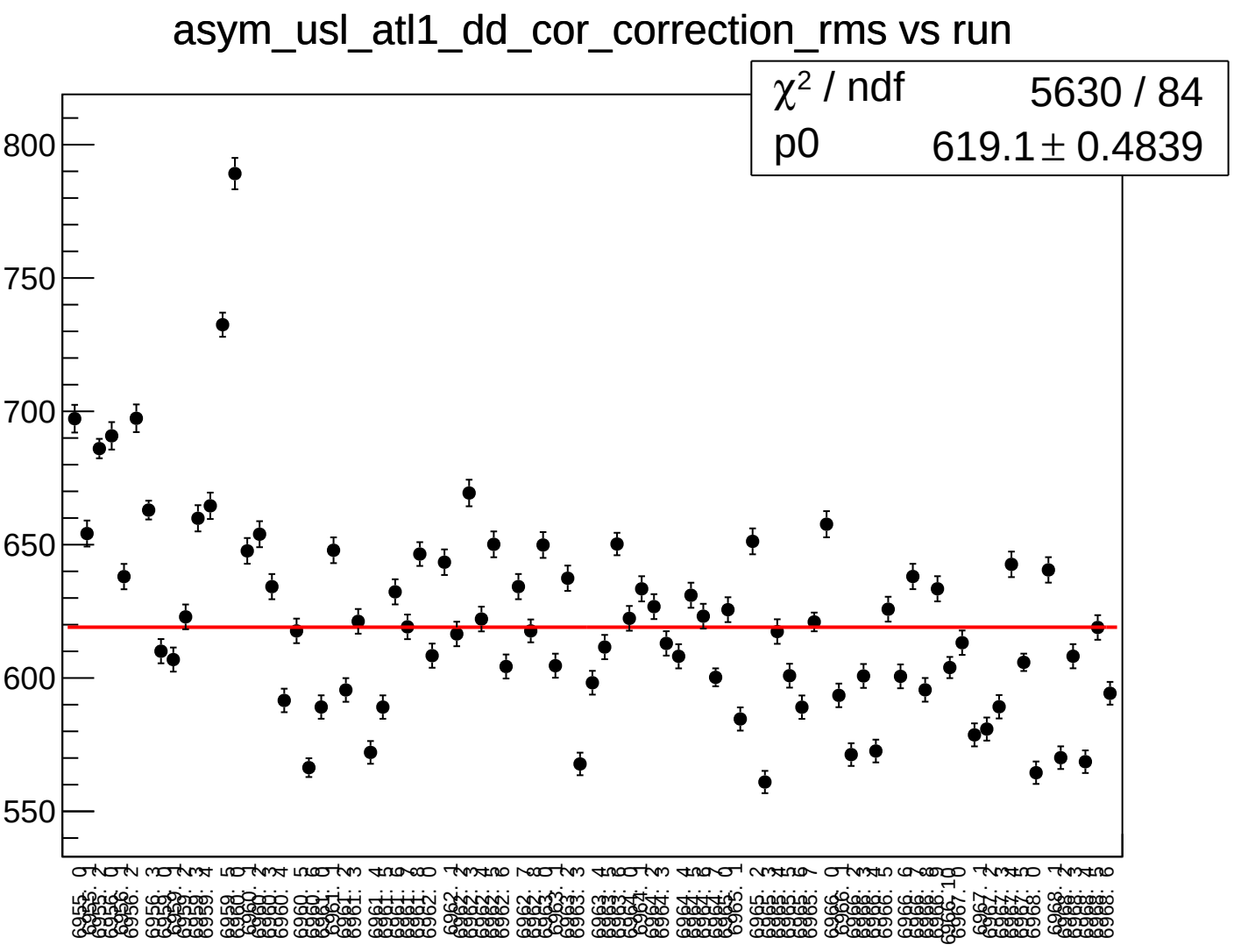

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 5627 / 84
p0 619.1 ± 0.4839
800
750
700
650
600
550

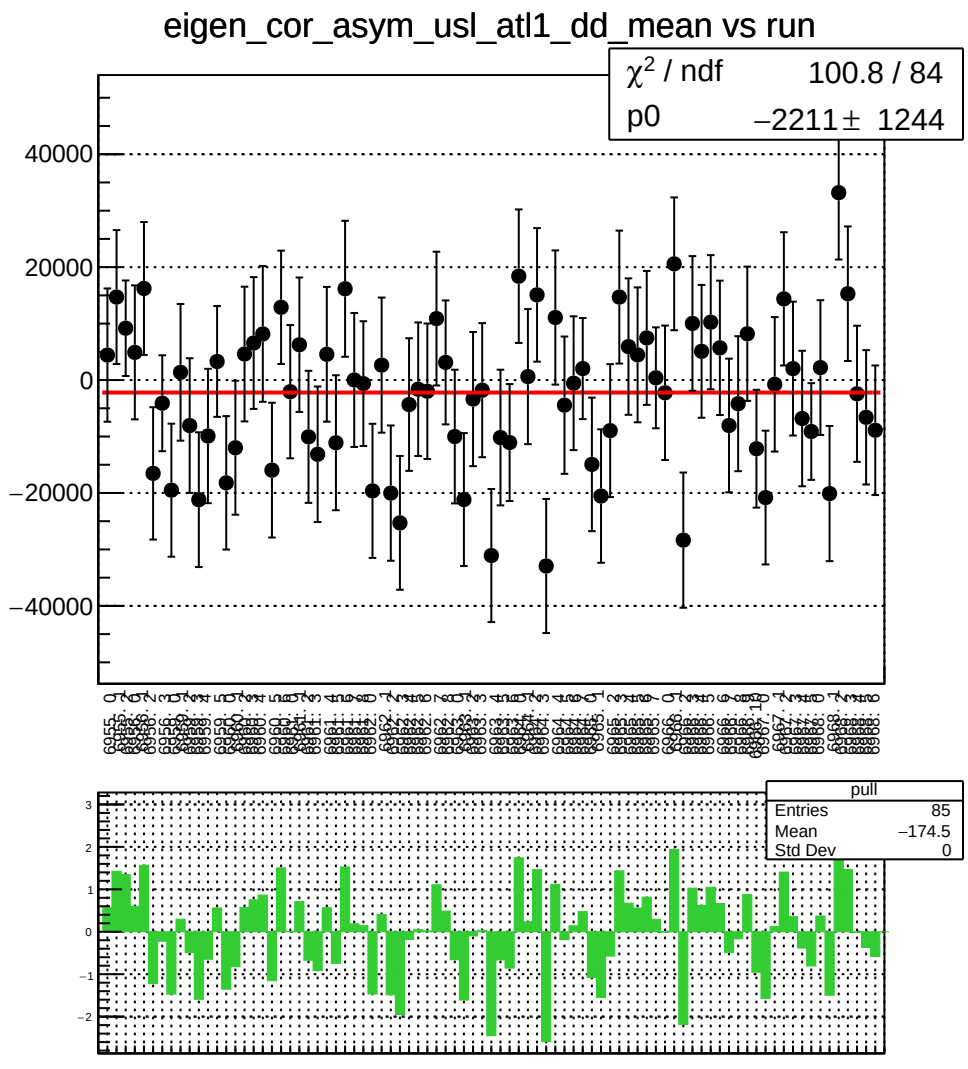

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 100.8 / 84
p0 −2211 ± 1244
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −174.5
Std Dev 0
3
2
1
0
−1
−2

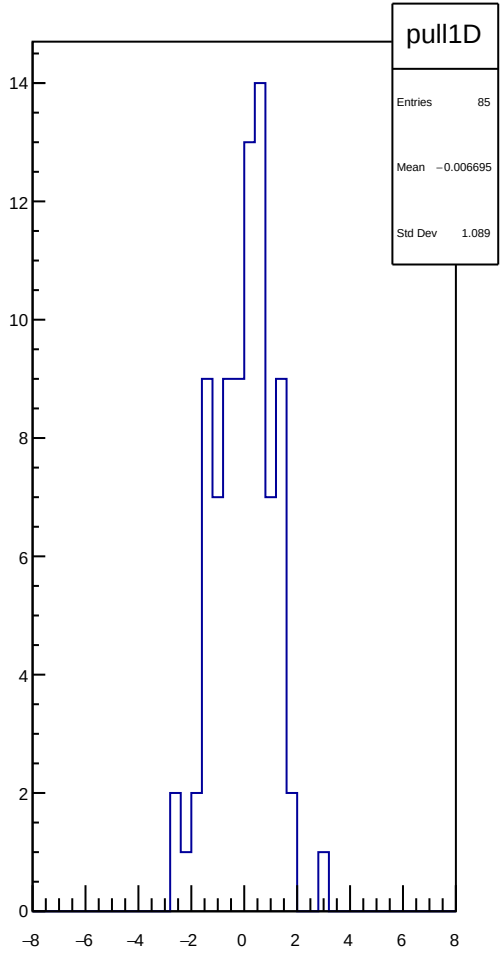

pull1D
Entries 85
Mean −0.006695
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

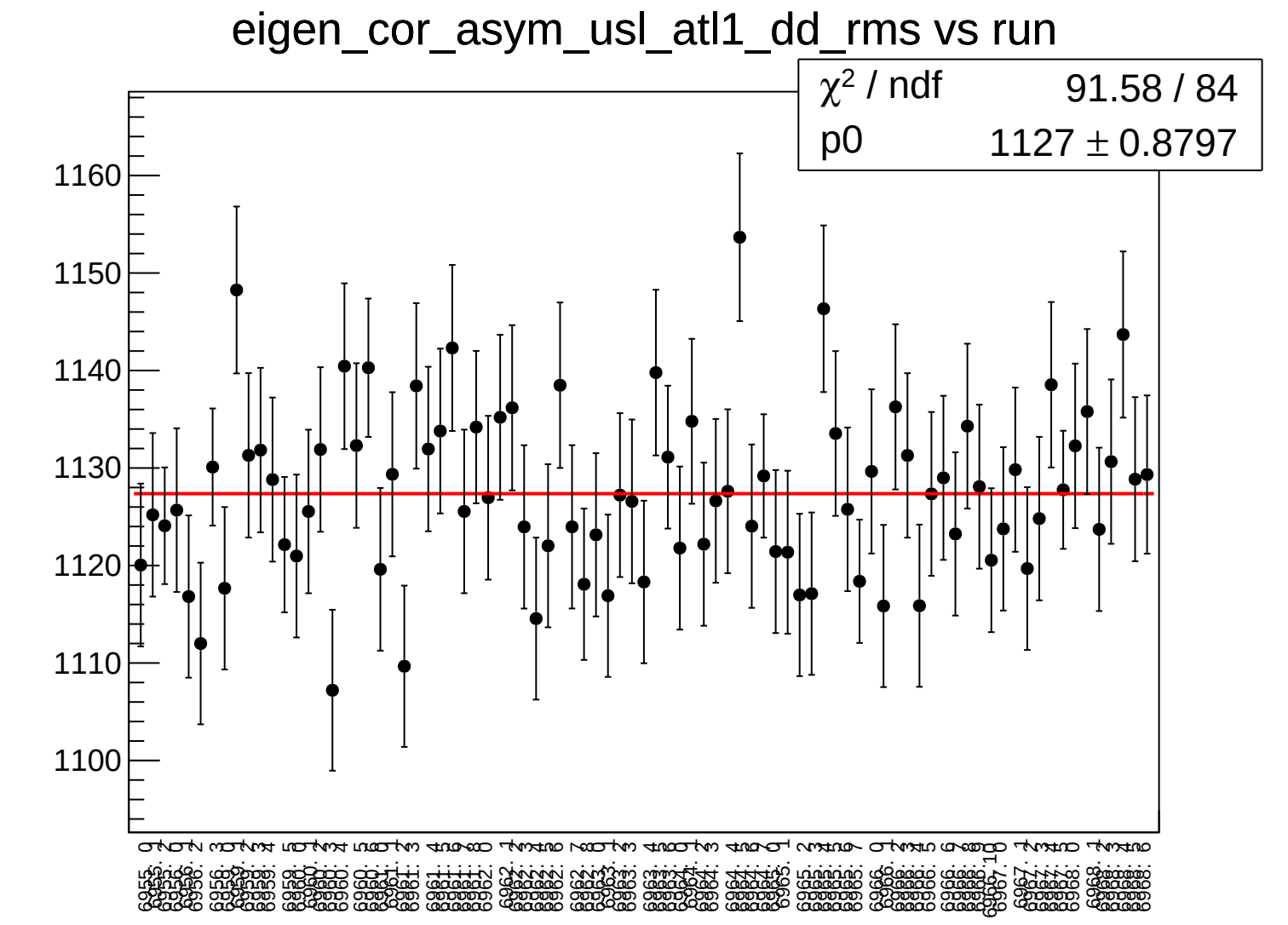

cor_asym_usl_atl1_dd_rms vs run
$\chi^2$ / ndf 91.58 / 84
p0 1127 ± 0.8797
1160
1150
1140
1130
1120
1110
1100

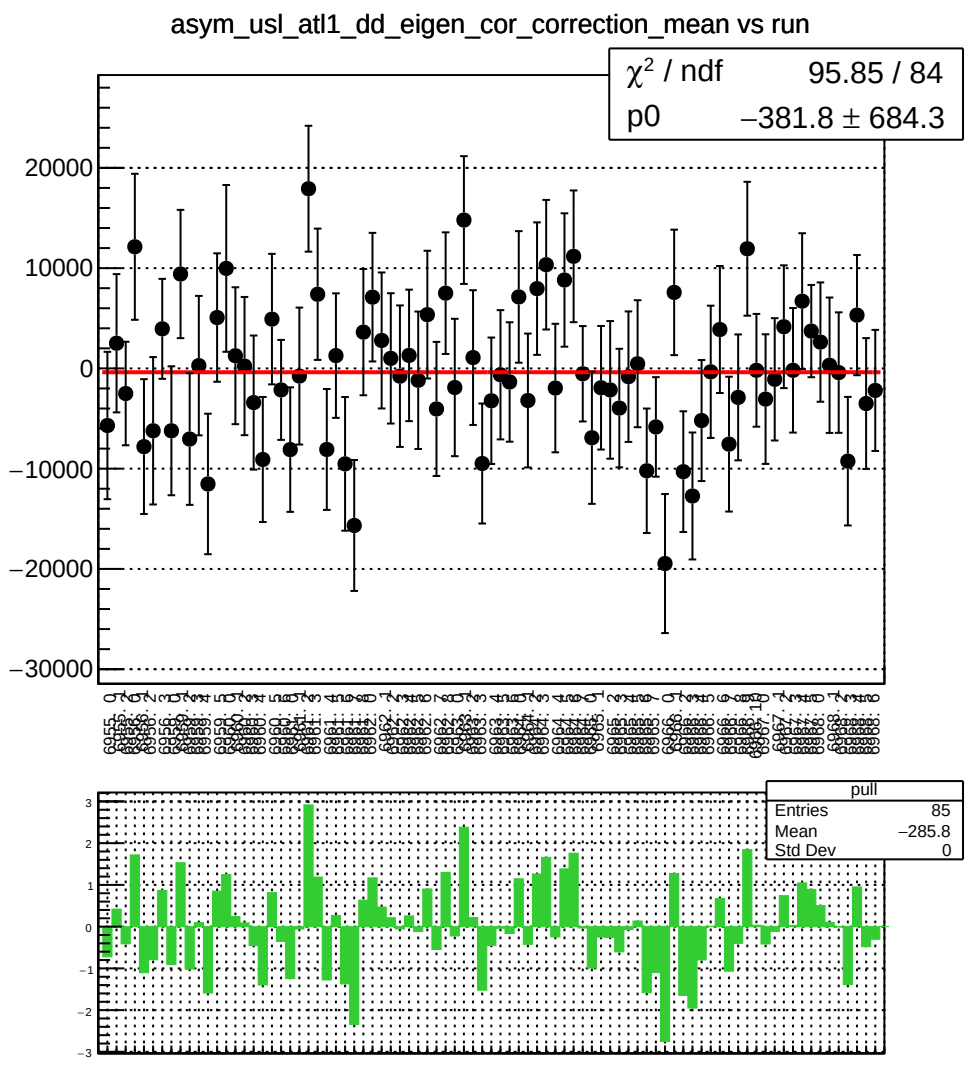

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 95.85 / 84
p0 −381.8 ± 684.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −285.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.002474
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

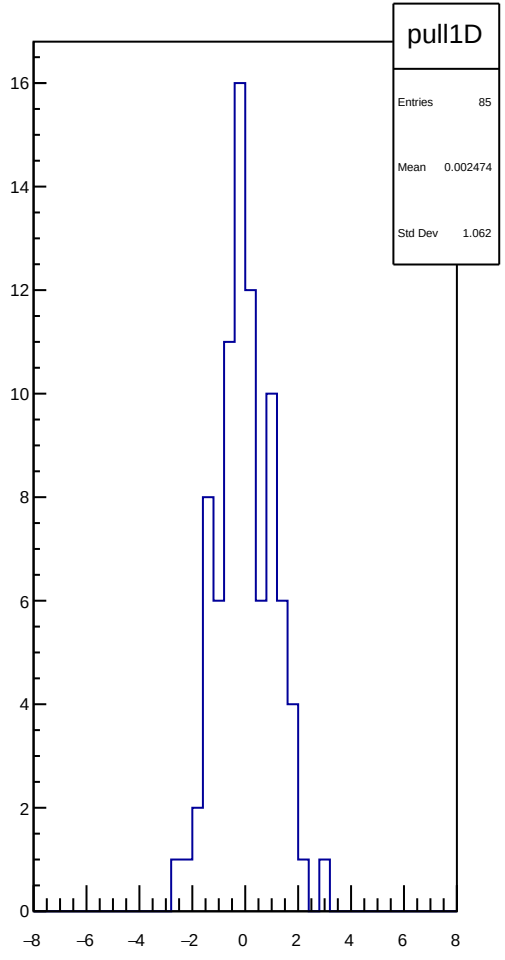

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 5630 / 84
p0 619.1 ± 0.4839
800
750
700
650
600
550

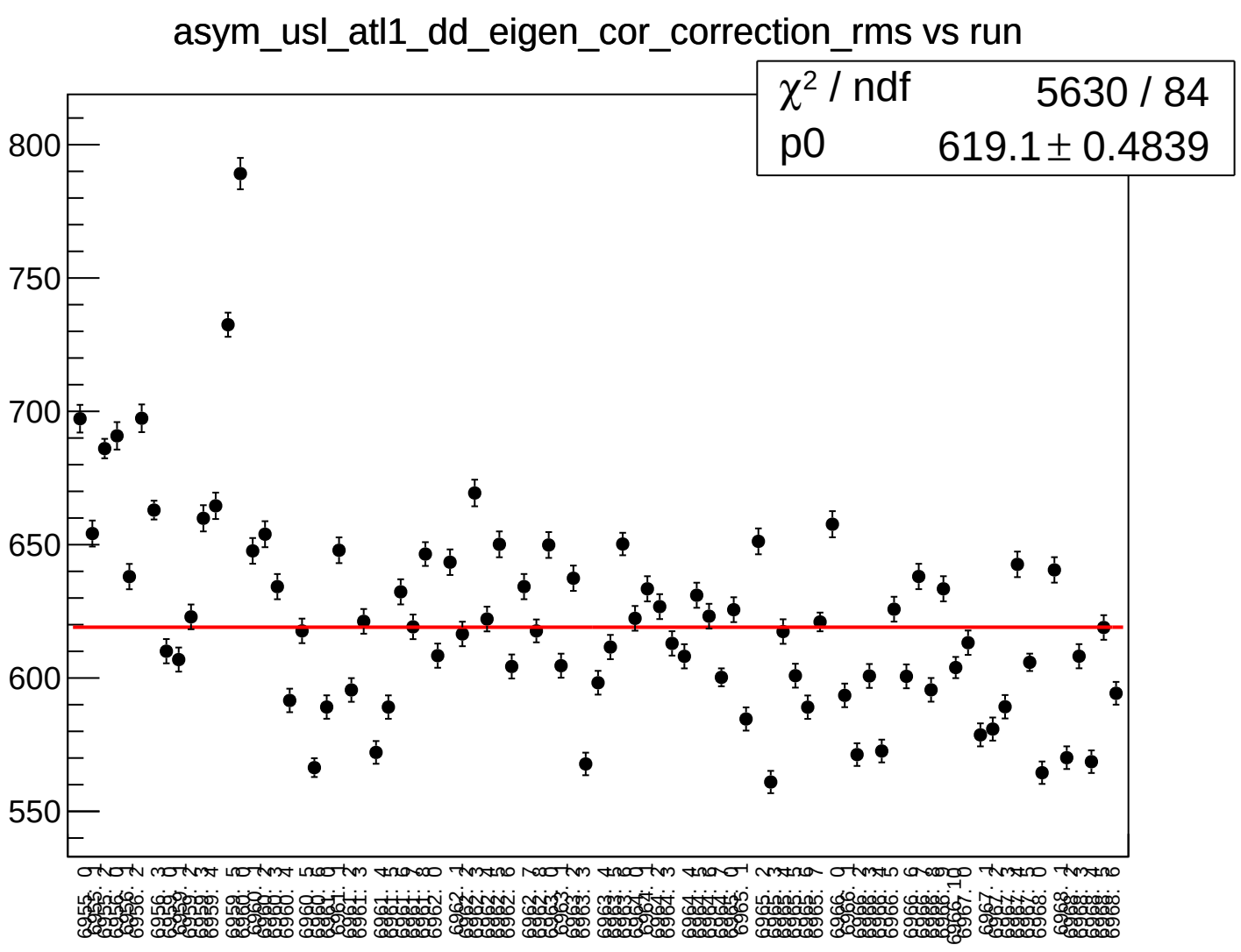

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 100.8 / 84
p0 −2211 ± 1244
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −174.5
Std Dev 0
3
2
1
0
−1
−2

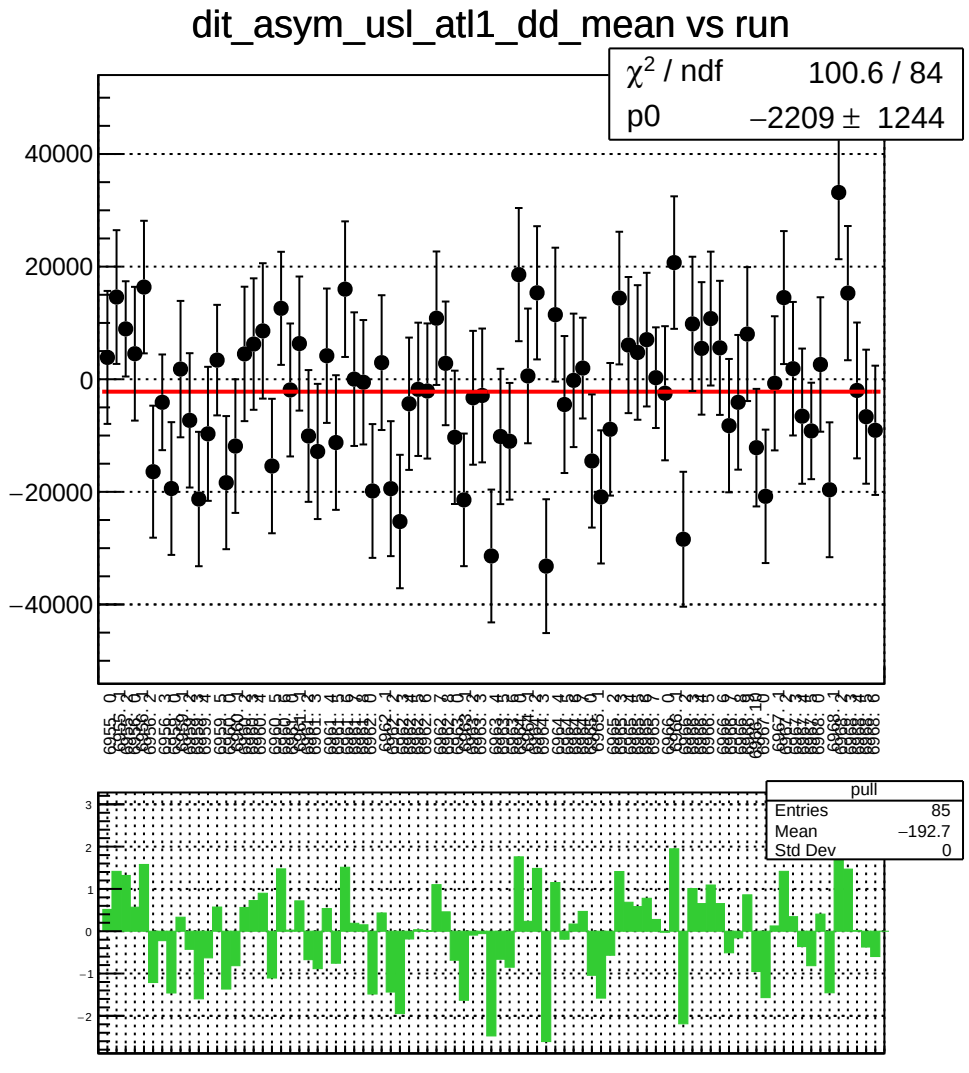

pull1D
Entries 85
Mean −0.006695
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

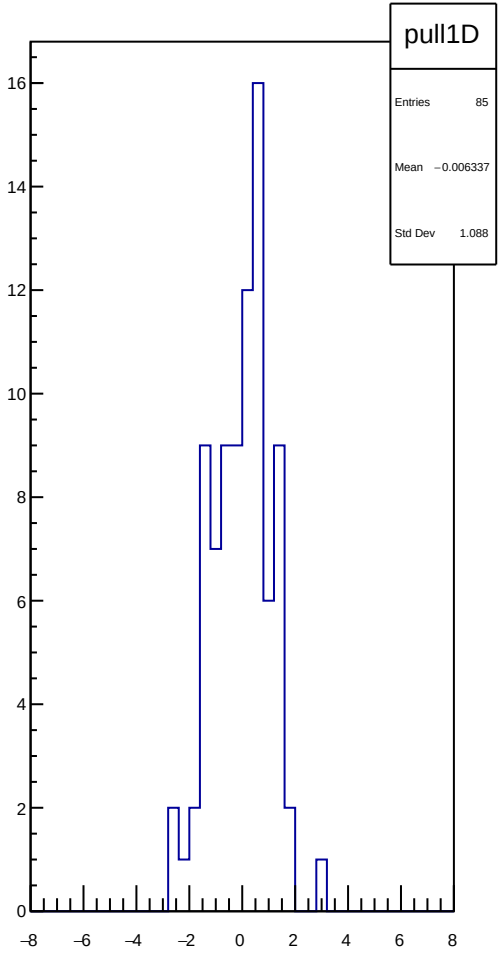

eigen_cor_asym_usl_atl1_dd_rms vs run
$\chi^2$ / ndf 91.58 / 84
p0 1127 ± 0.8797
1160
1150
1140
1130
1120
1110
1100

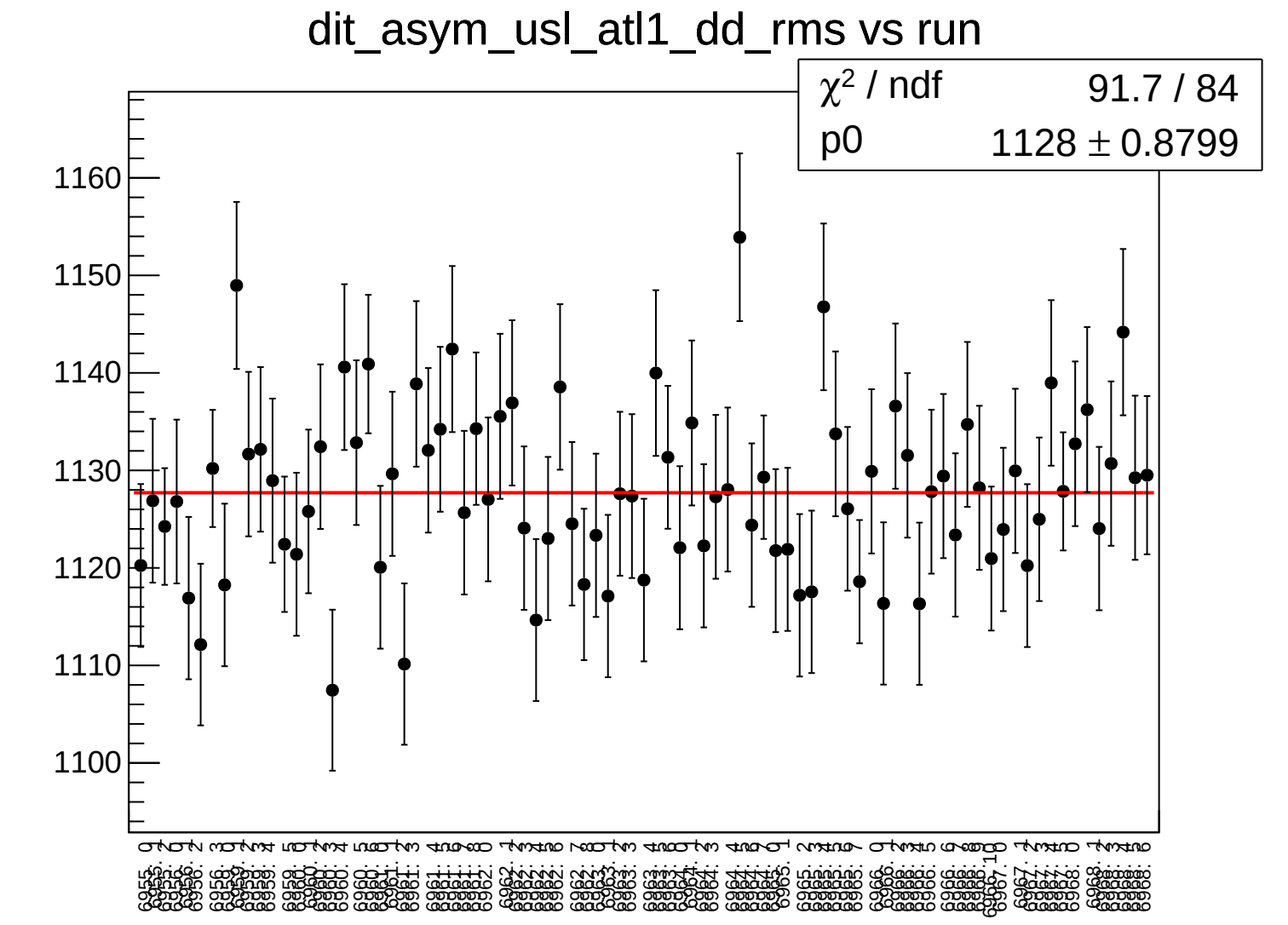

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.85 / 84
p0 −381.8 ± 684.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −285.8
Std Dev 0
3
2
1
0
−1
−2
−3

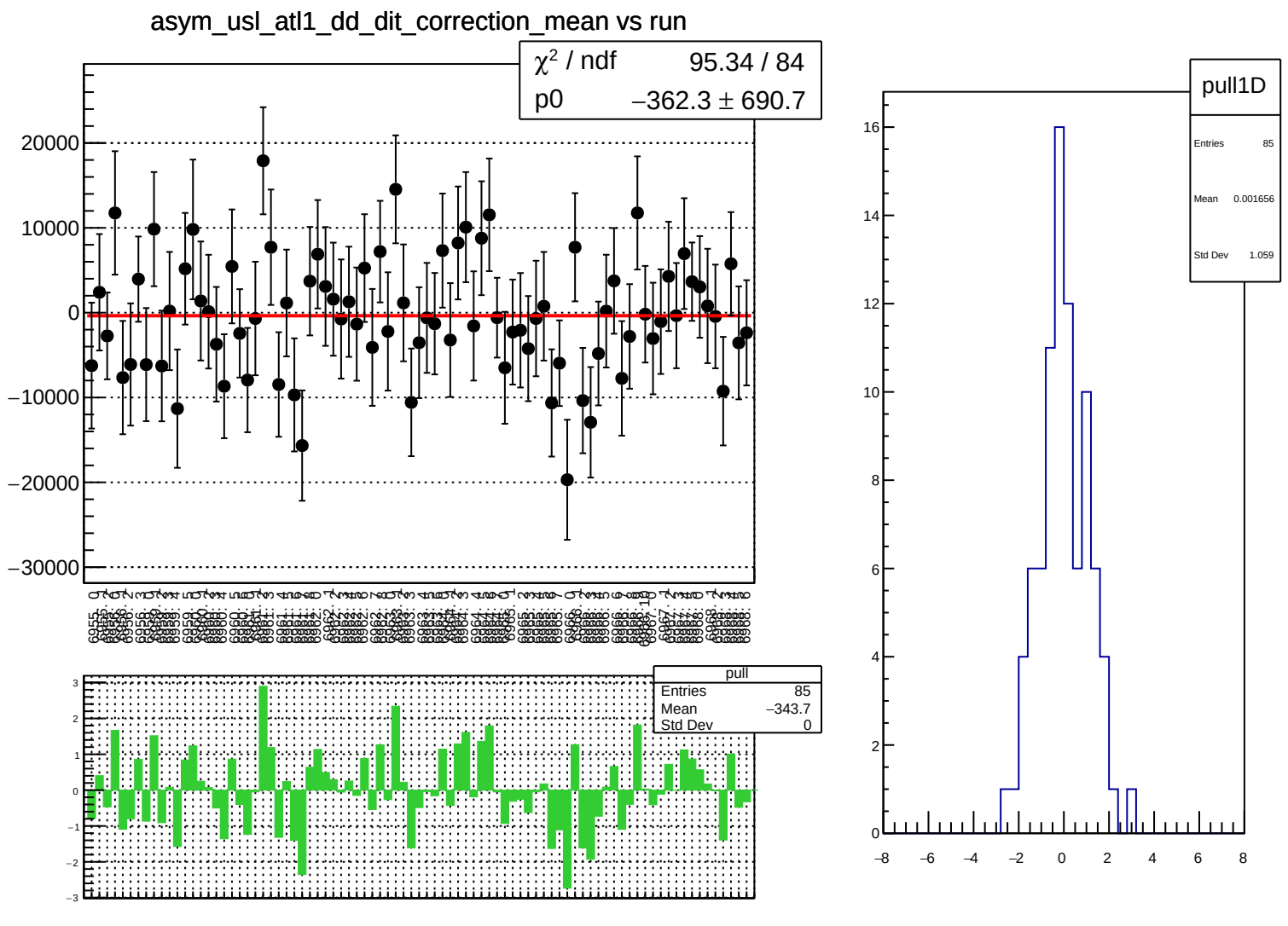

pull1D
Entries 85
Mean 0.002474
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

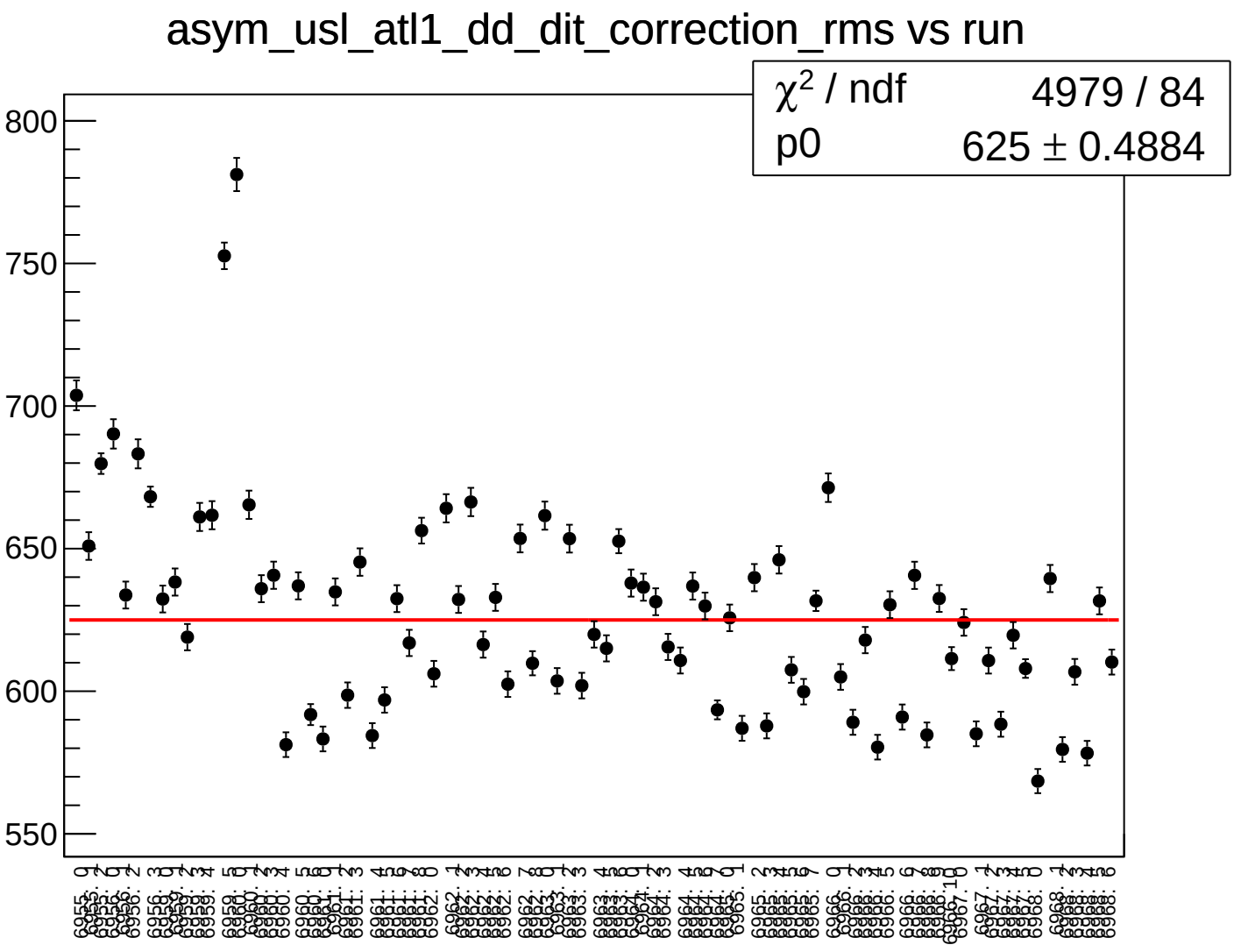

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 5630 / 84
p0 619.1 ± 0.4839
800
750
700
650
600
550

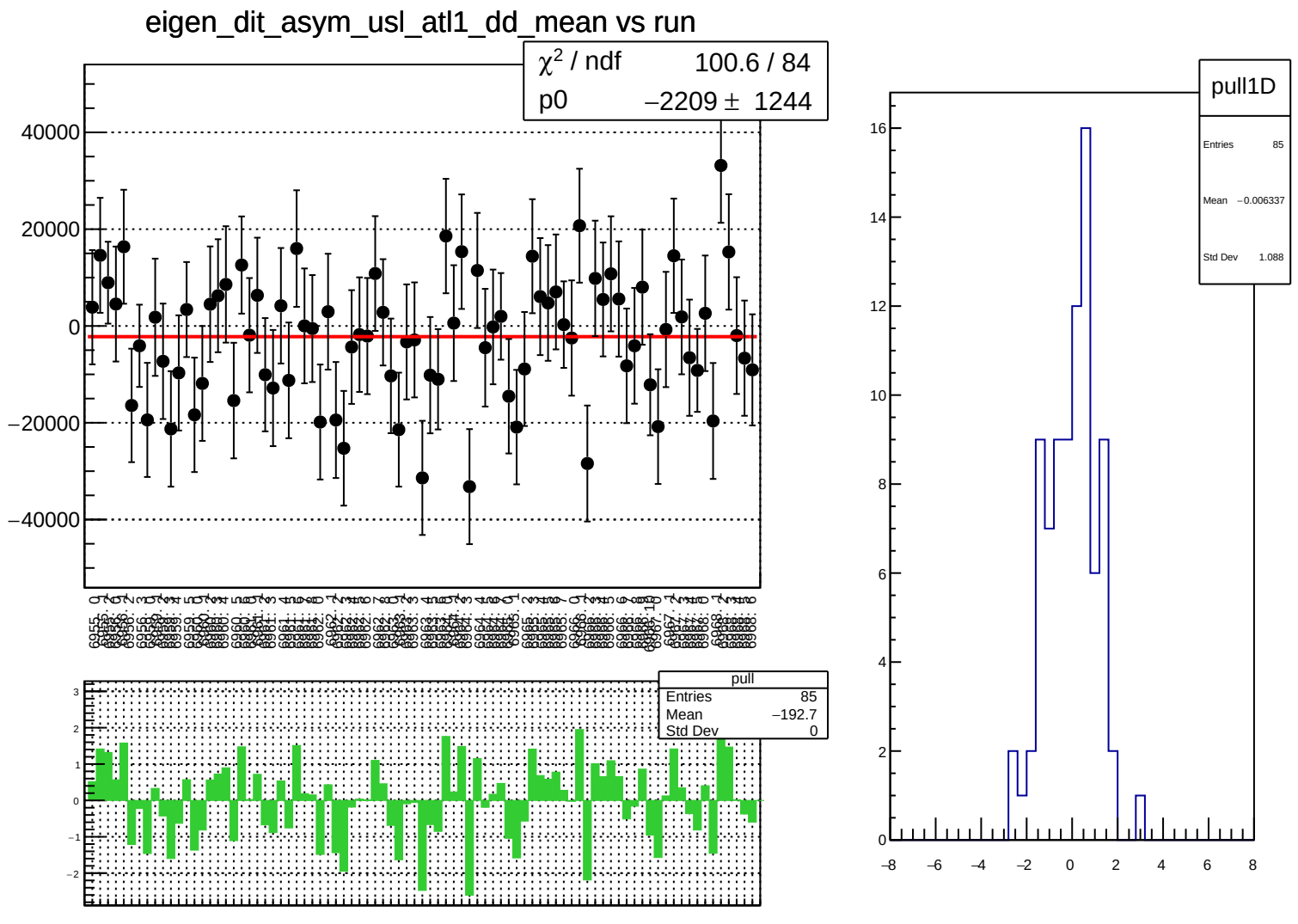

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 100.6 / 84
p0 −2209 ± 1244
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −192.7
Std Dev 0
3
2
1
0
−1
−2

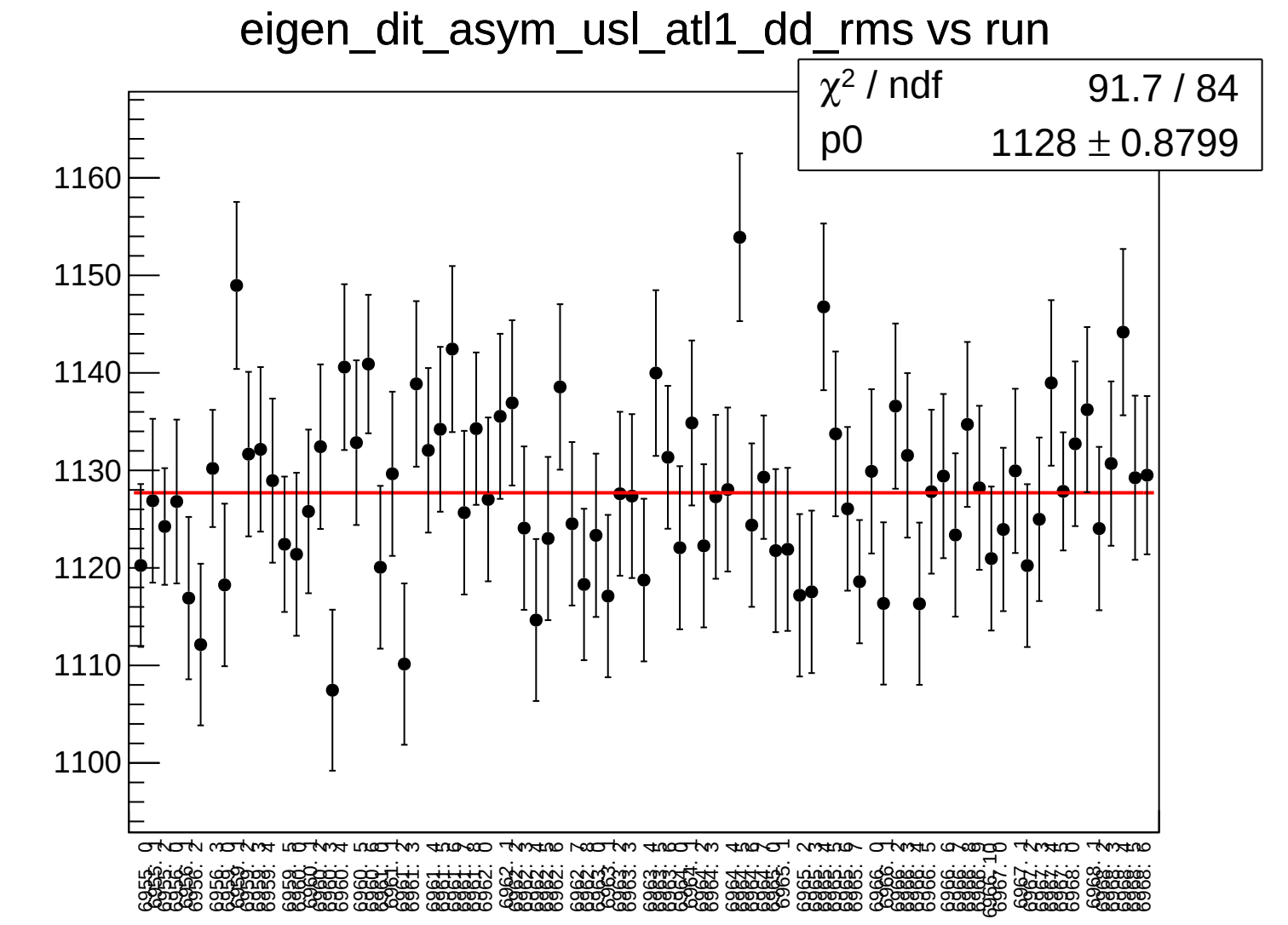

pull1D
Entries 85
Mean −0.006337
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

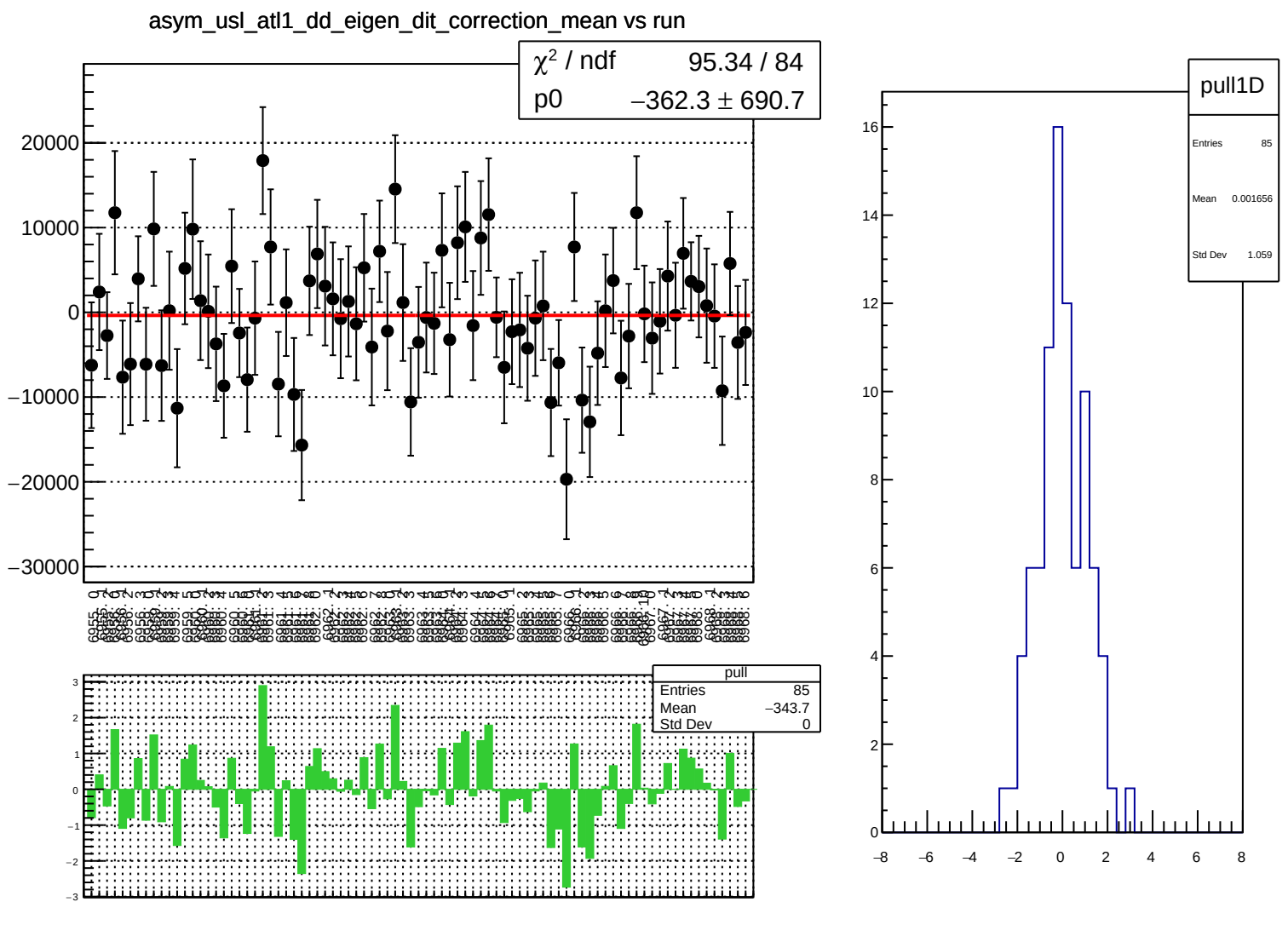

dit_asym_usl_atl1_dd_rms vs run
$\chi^2$ / ndf 91.7 / 84
p0 1128 ± 0.8799
1160
1150
1140
1130
1120
1110
1100

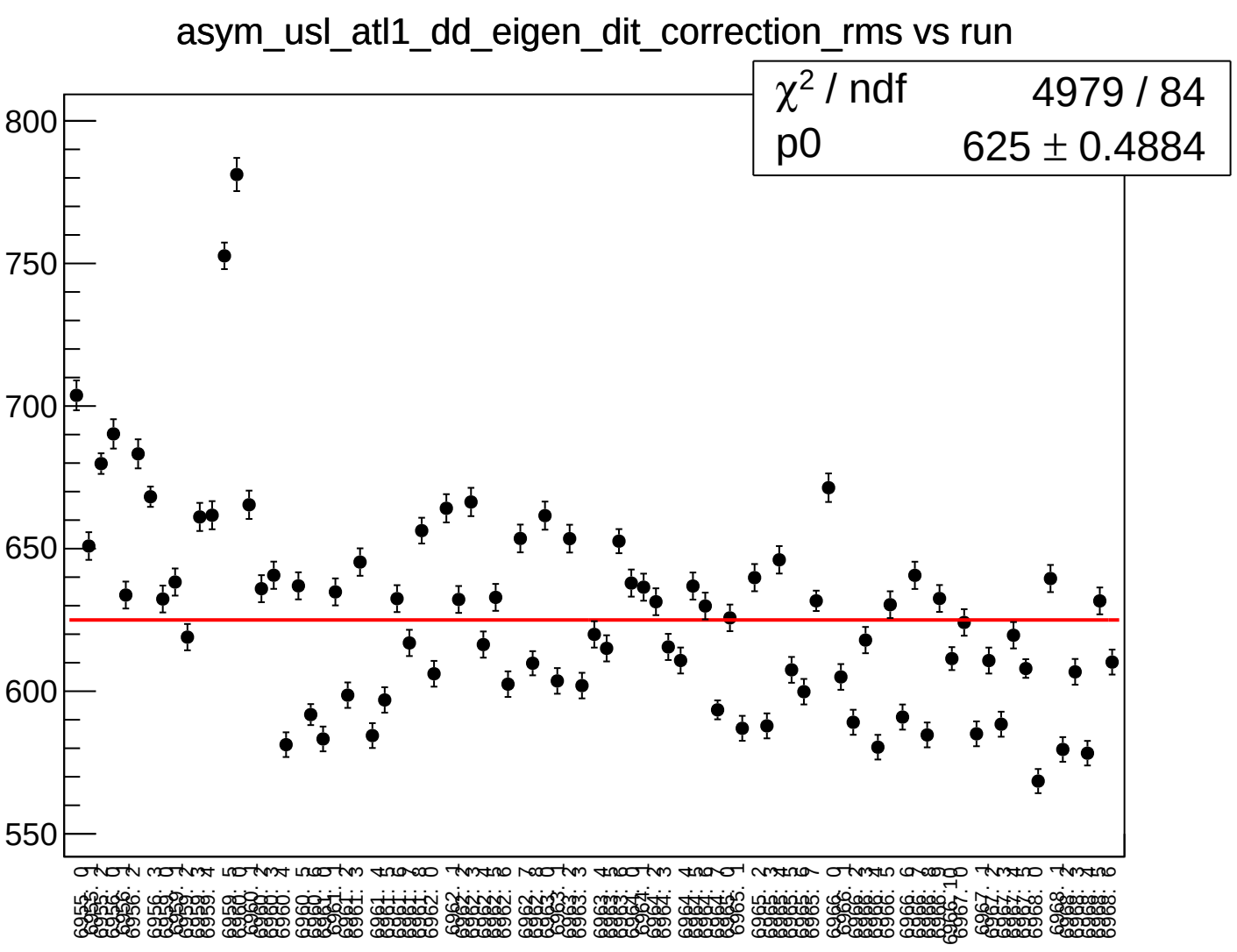

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 95.34 / 84
p0 −362.3 ± 690.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −343.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.001656
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

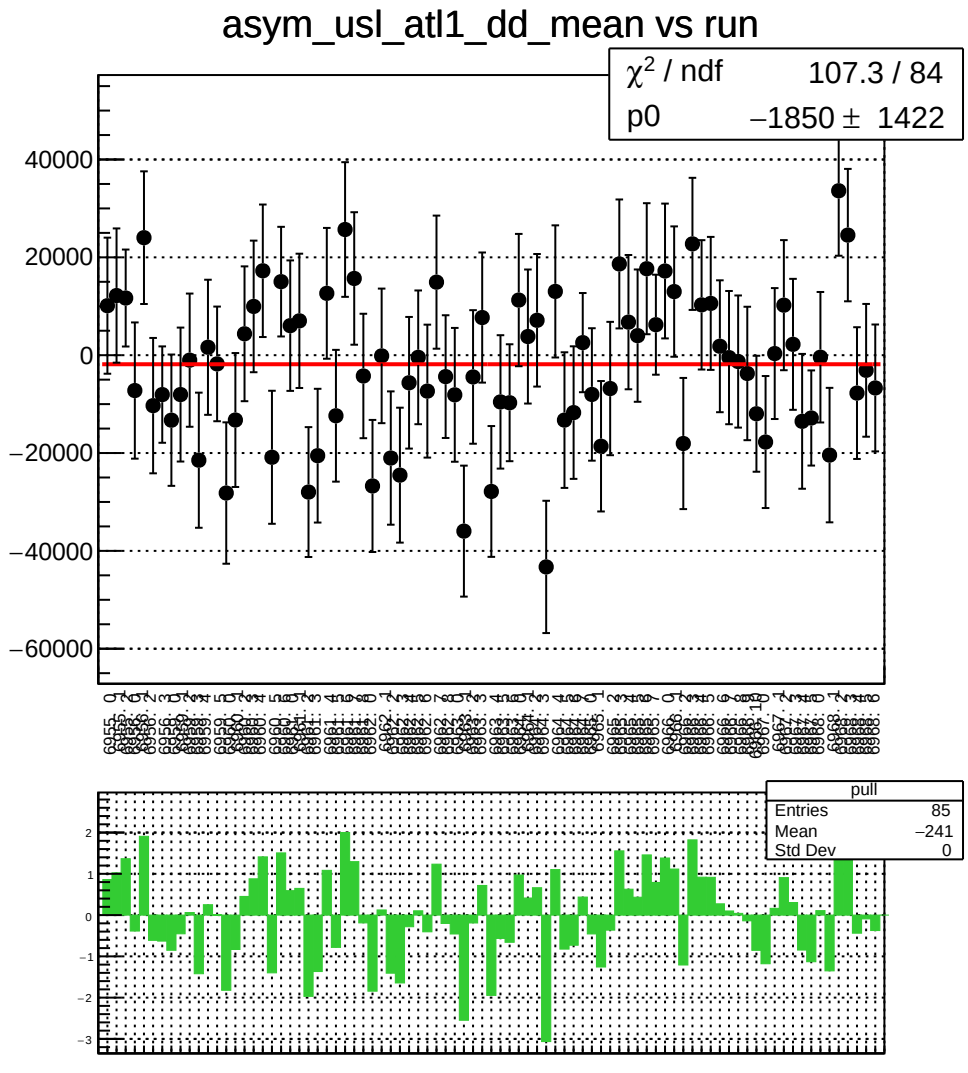

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 4979 / 84
p0 625 ± 0.4884
800
750
700
650
600
550

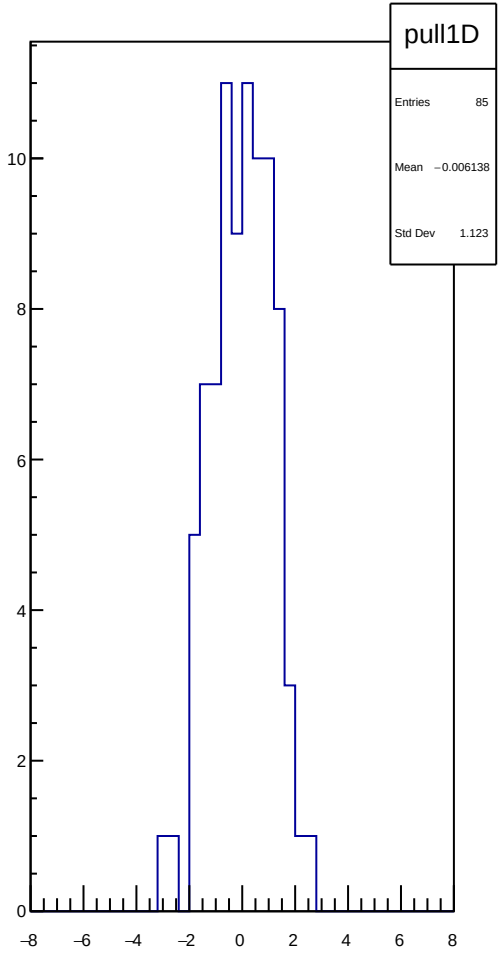

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 100.6 / 84
p0 −2209 ± 1244
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −192.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.006337
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

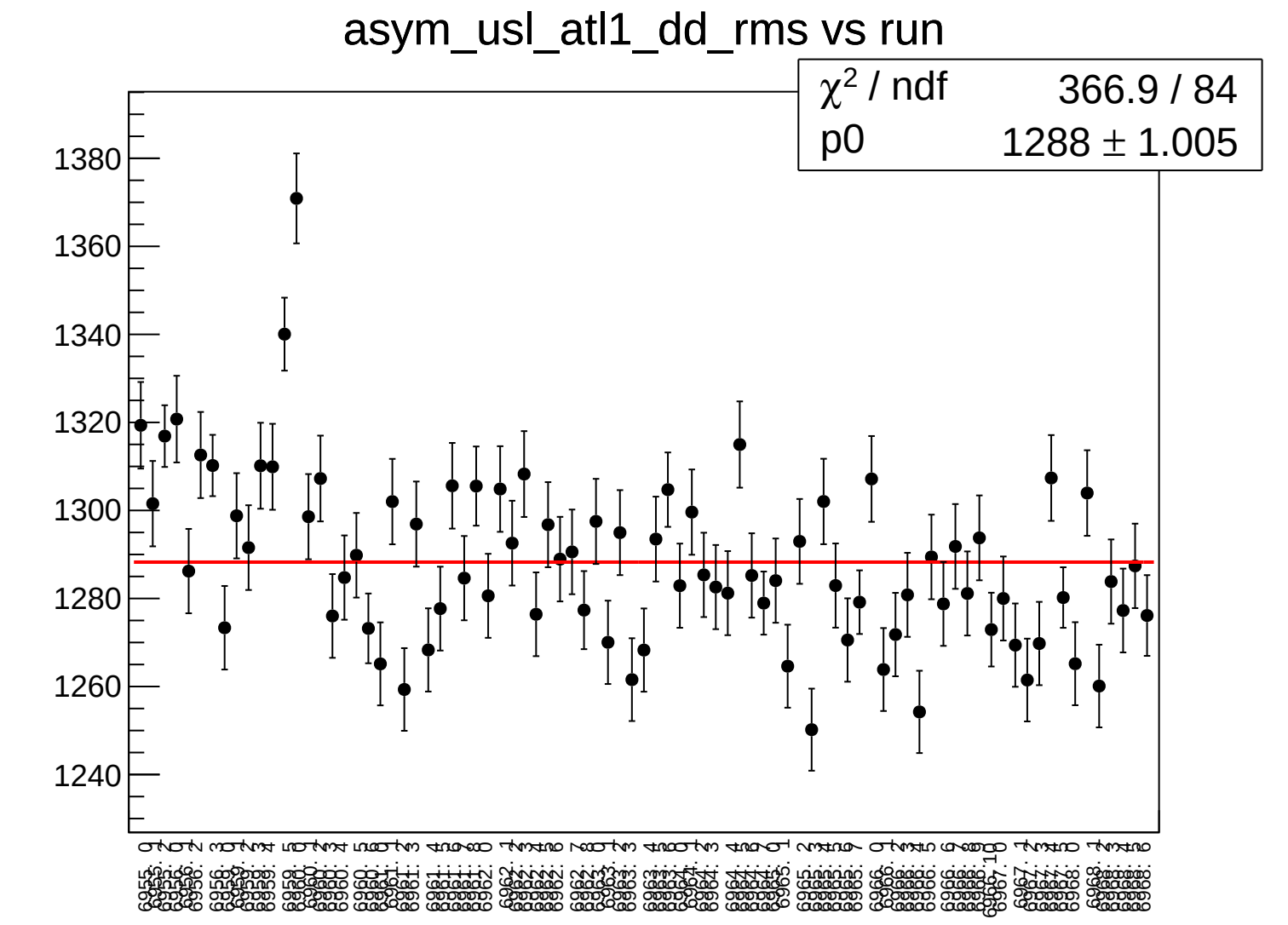

eigen_dit_asym_usl_atl1_dd_rms vs run
$\chi^2$ / ndf 91.7 / 84
p0 1128 ± 0.8799
1160
1150
1140
1130
1120
1110
1100

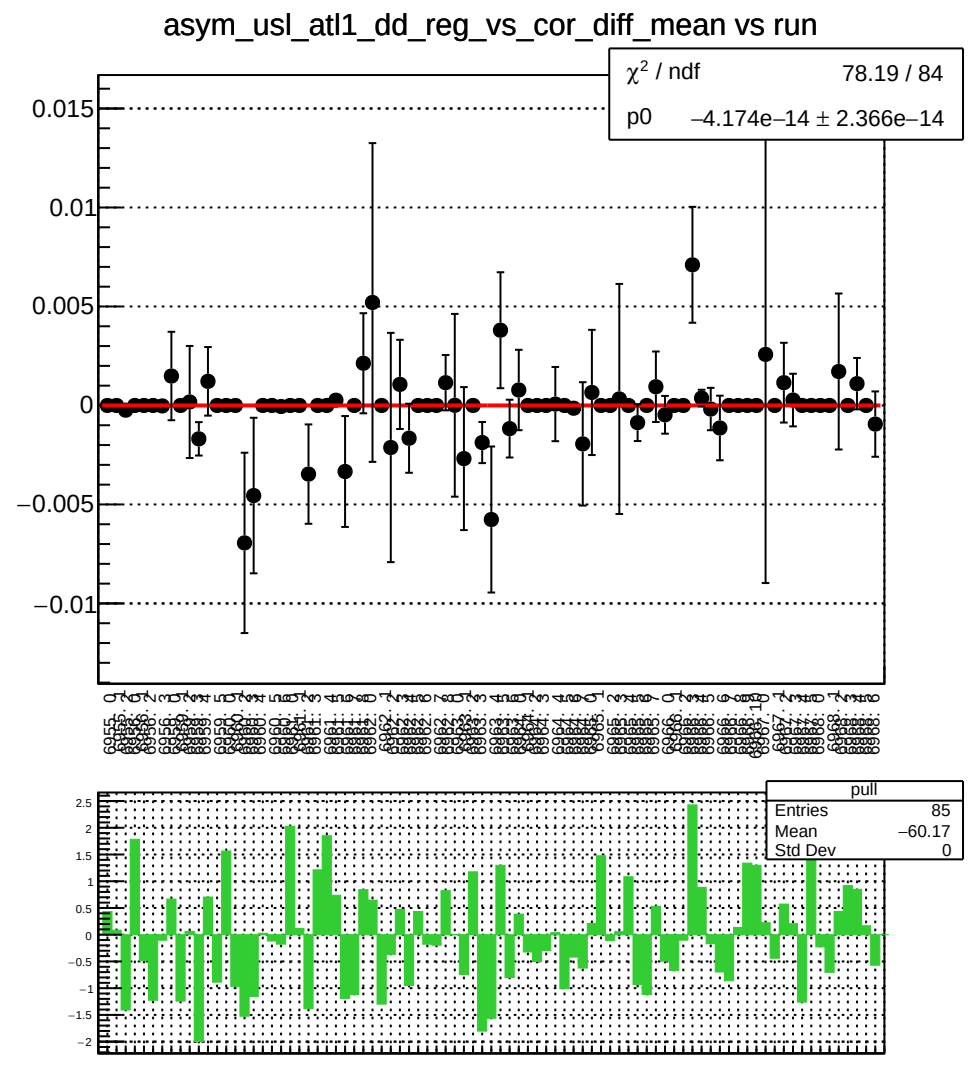

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.34 / 84
p0 −362.3 ± 690.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −343.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.001656
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

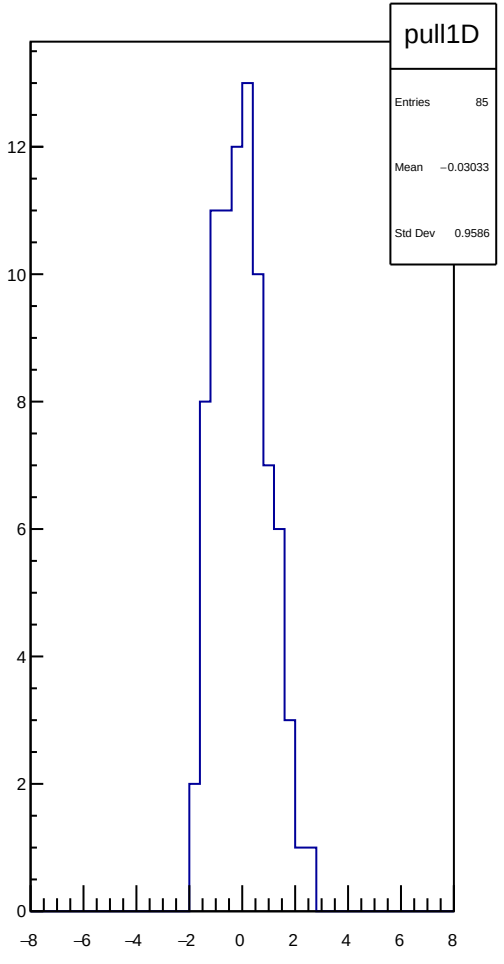

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4979 / 84
p0 625 ± 0.4884
800
750
700
650
600
550

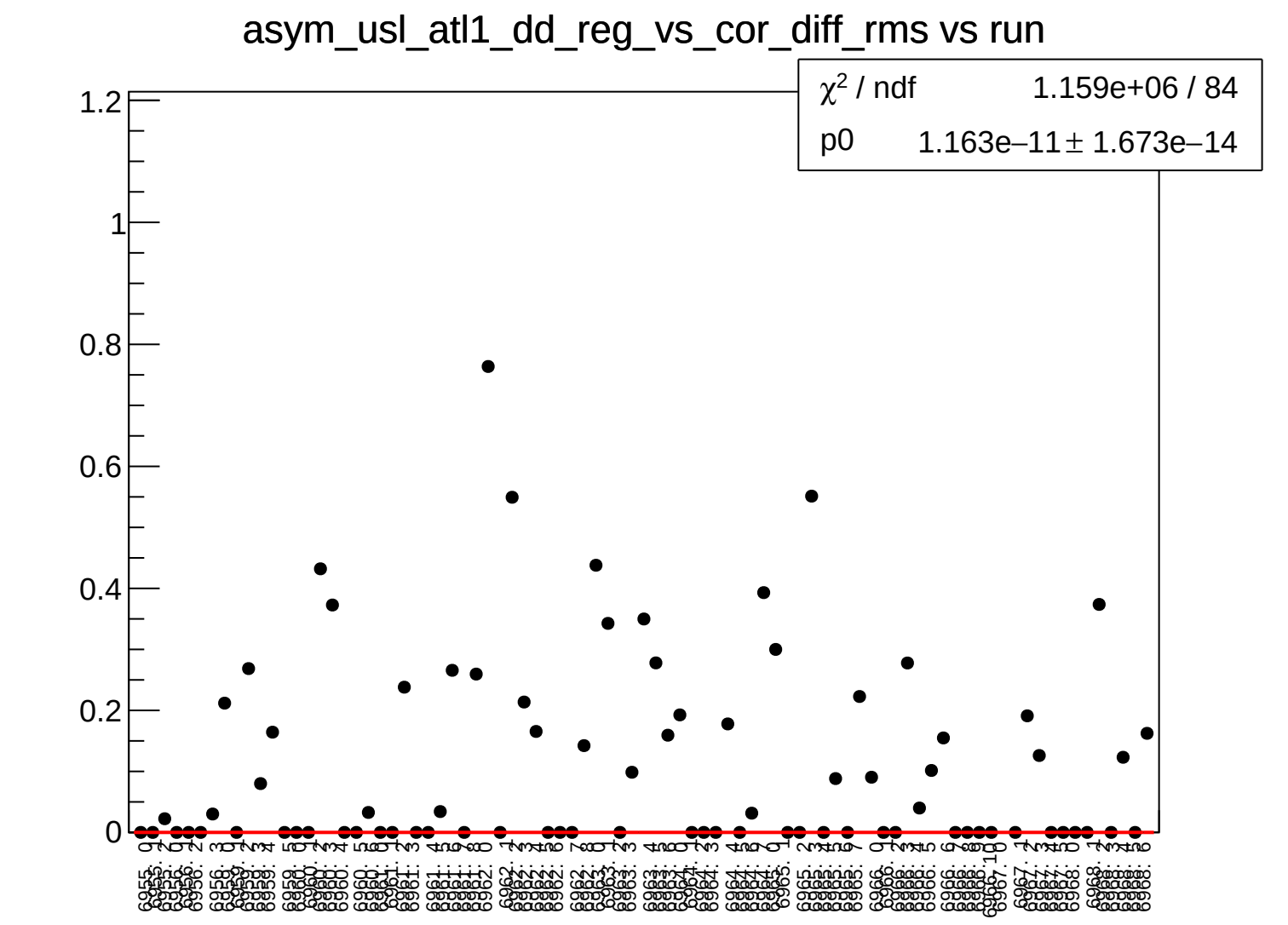

asym_usl_atl1_dd_mean vs run
χ² / ndf 107.3 / 84
p0 −1850 ± 1422
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −241
Std Dev 0
2
1
0
−1
−2
−3

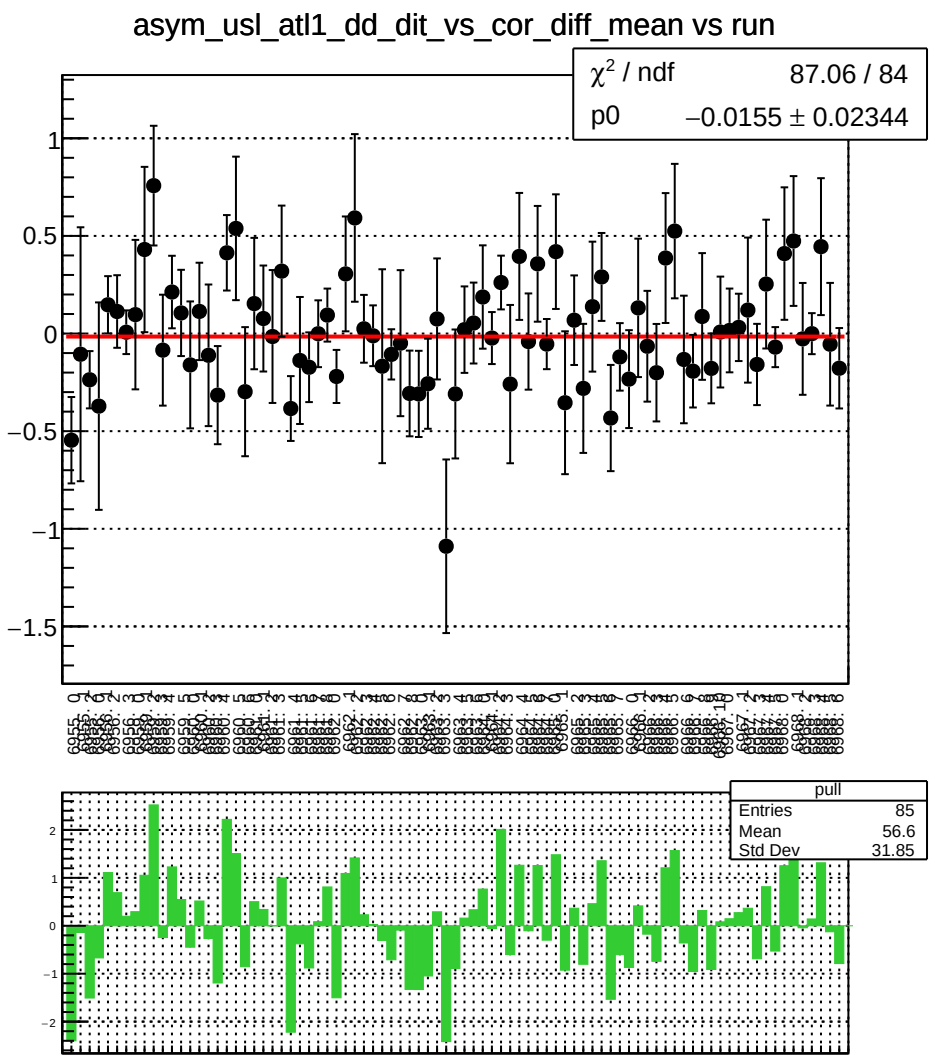

pull1D
Entries 85
Mean −0.006138
Std Dev 1.123
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

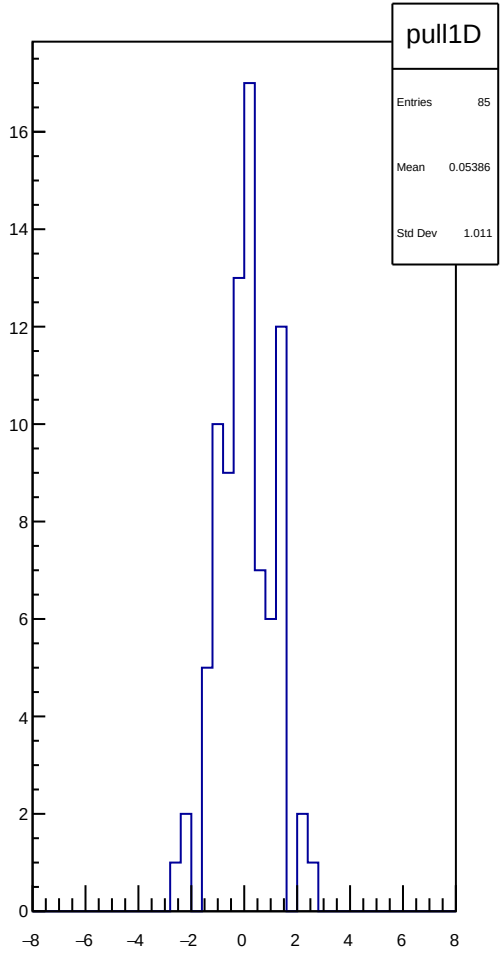

asym_usl_atl1_dd_rms vs run
χ² / ndf 366.9 / 84
p0 1288 ± 1.005
1380
1360
1340
1320
1300
1280
1260
1240

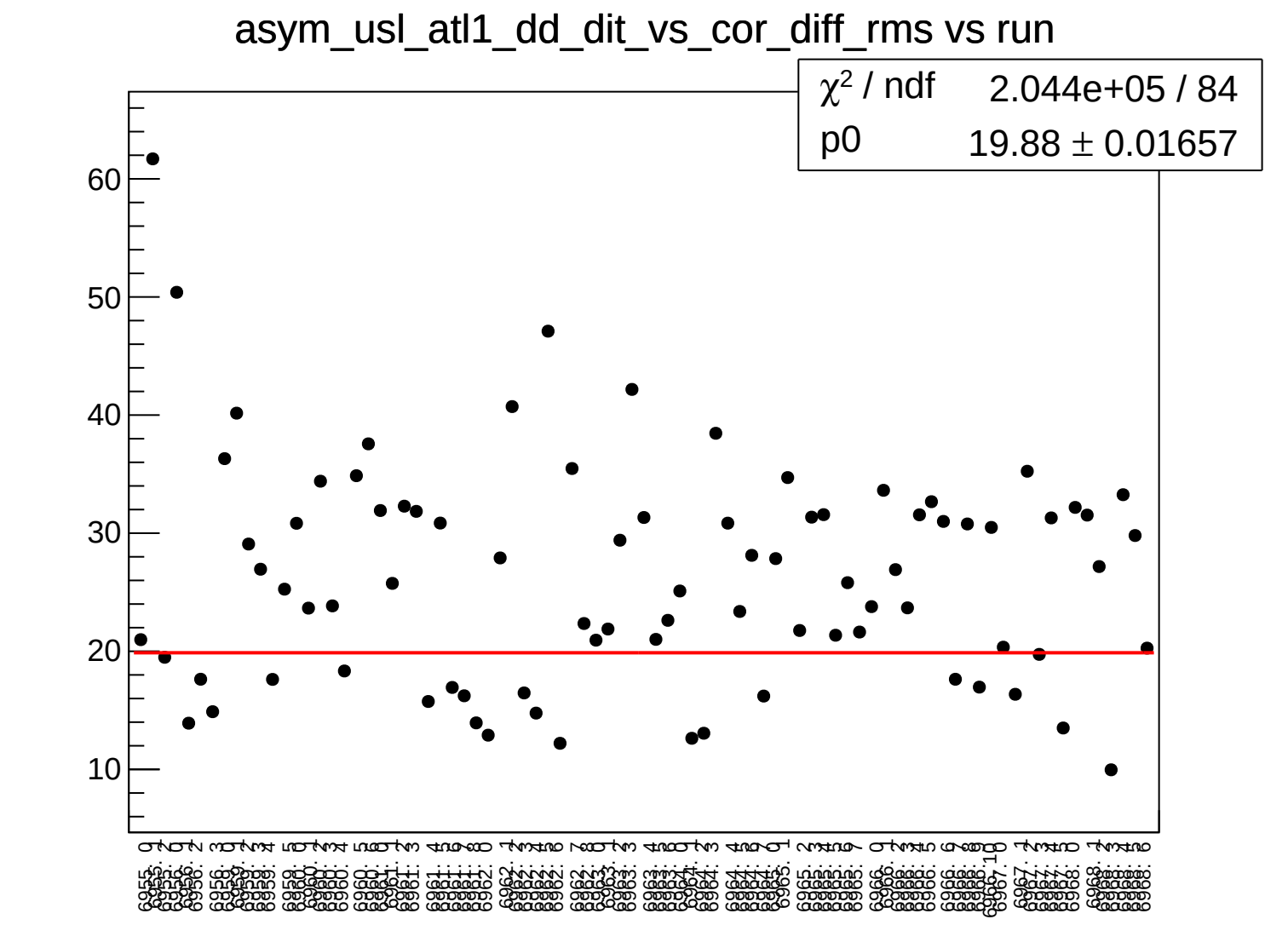

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.19 / 84
p0 −4.174e−14 ± 2.366e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 85
Mean −60.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

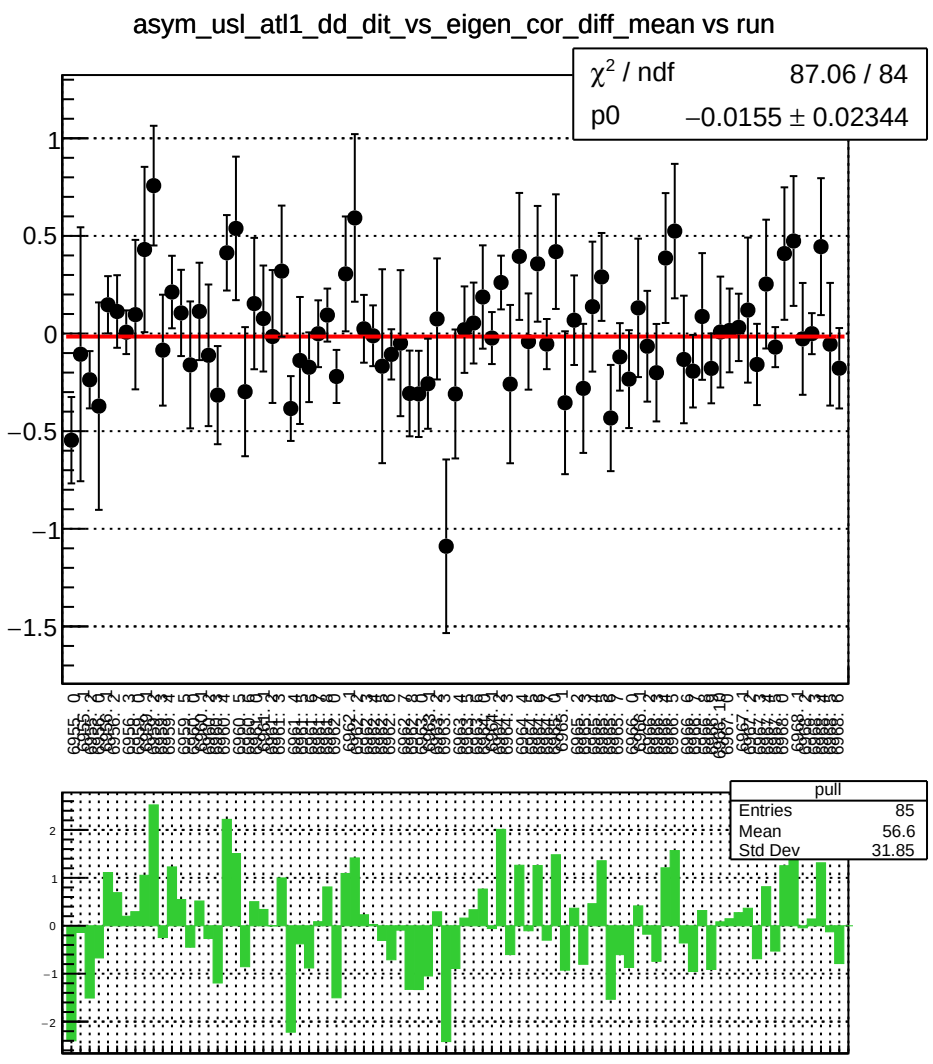

pull1D
Entries 85
Mean −0.03033
Std Dev 0.9586
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

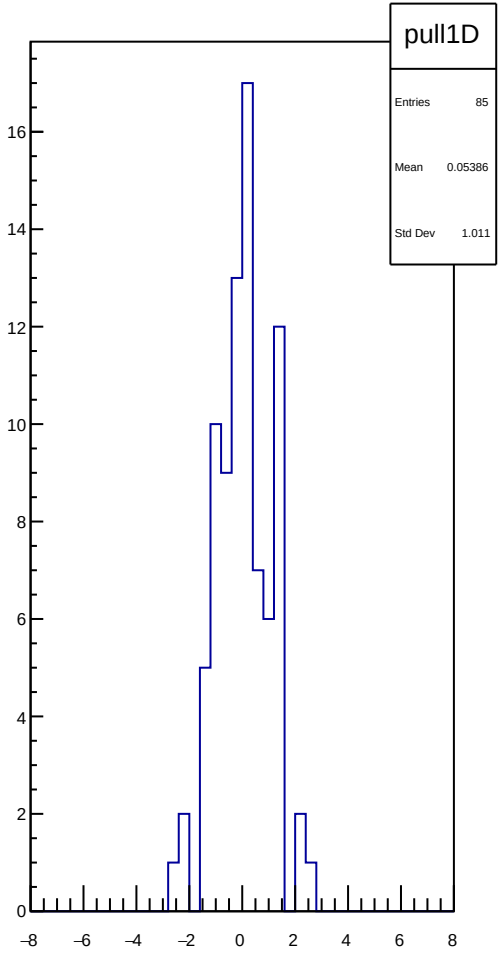

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.159e+06 / 84
p0 1.163e−11 ± 1.673e−14
1.2
1
0.8
0.6
0.4
0.2
0

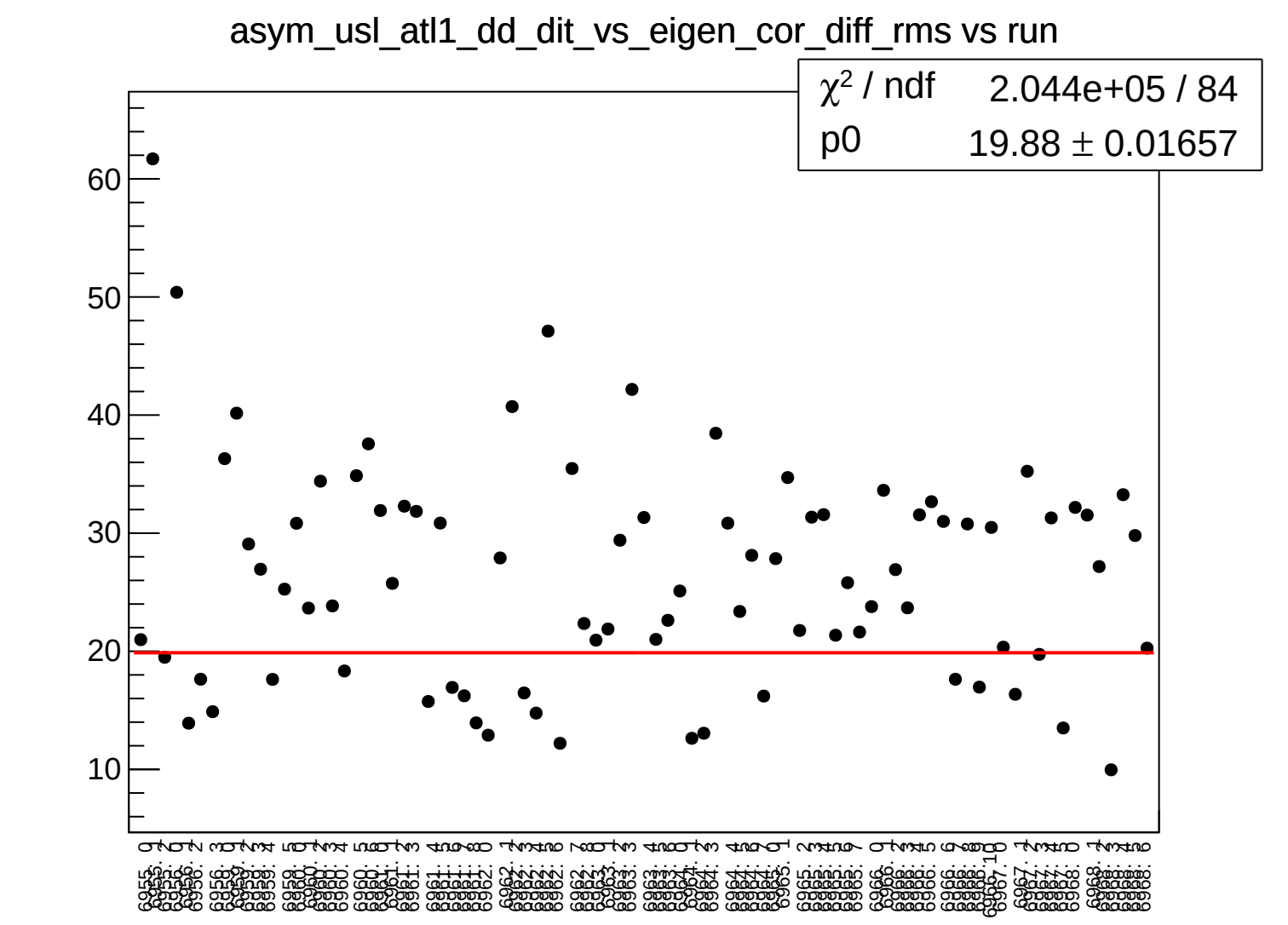

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.06 / 84
p0 −0.0155 ± 0.02344
pull
Entries 85
Mean 56.6
Std Dev 31.85

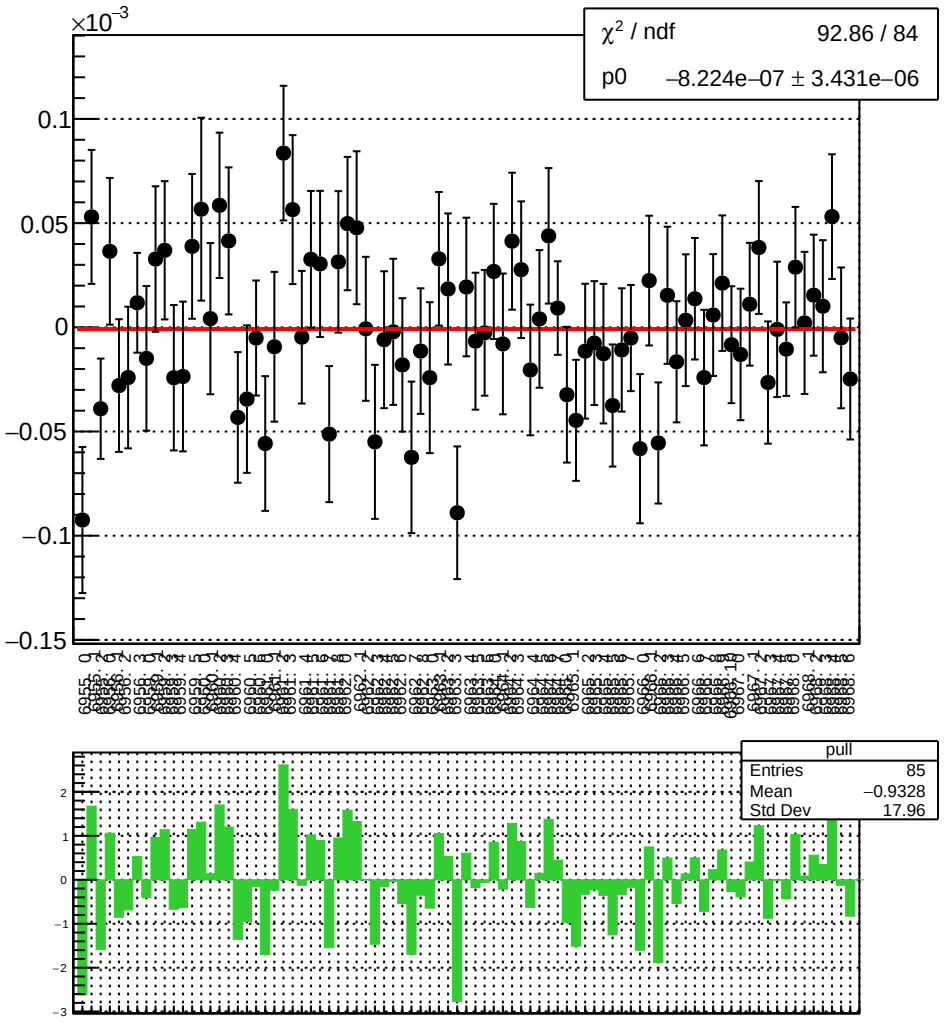

pull1D
Entries 85
Mean 0.05386
Std Dev 1.011

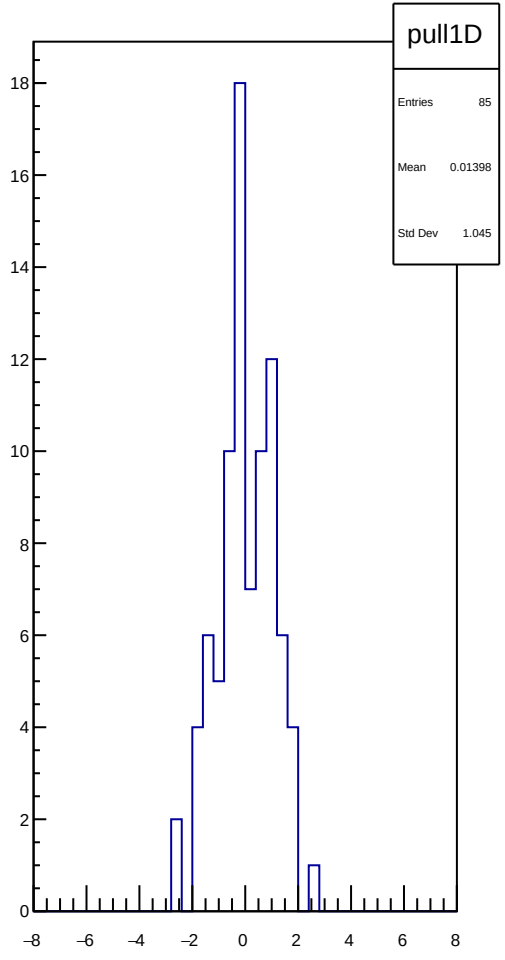

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.044e+05 / 84
p0 19.88 ± 0.01657
60
50
40
30
20
10

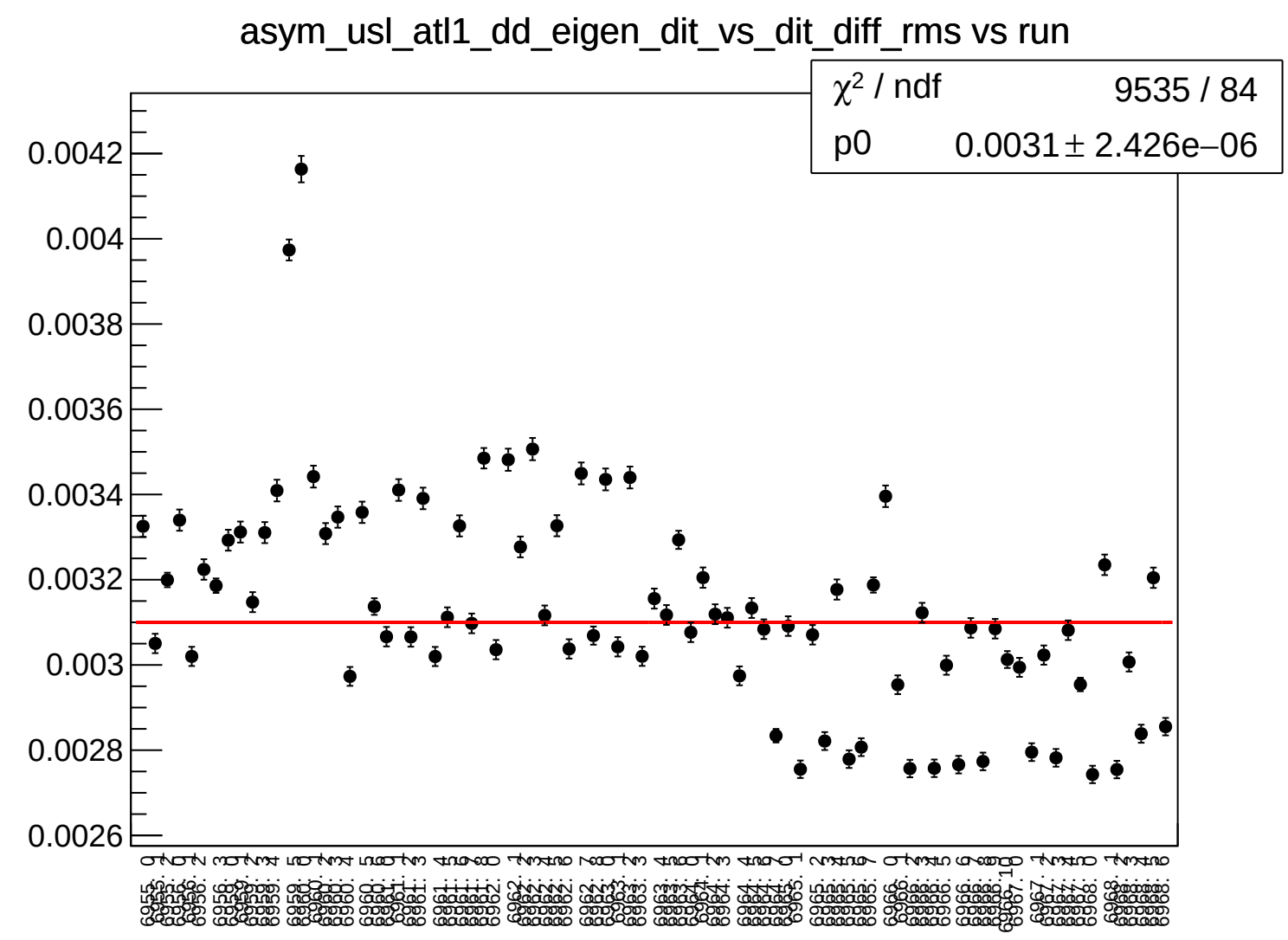

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.06 / 84
p0 −0.0155 ± 0.02344
pull
Entries 85
Mean 56.6
Std Dev 31.85

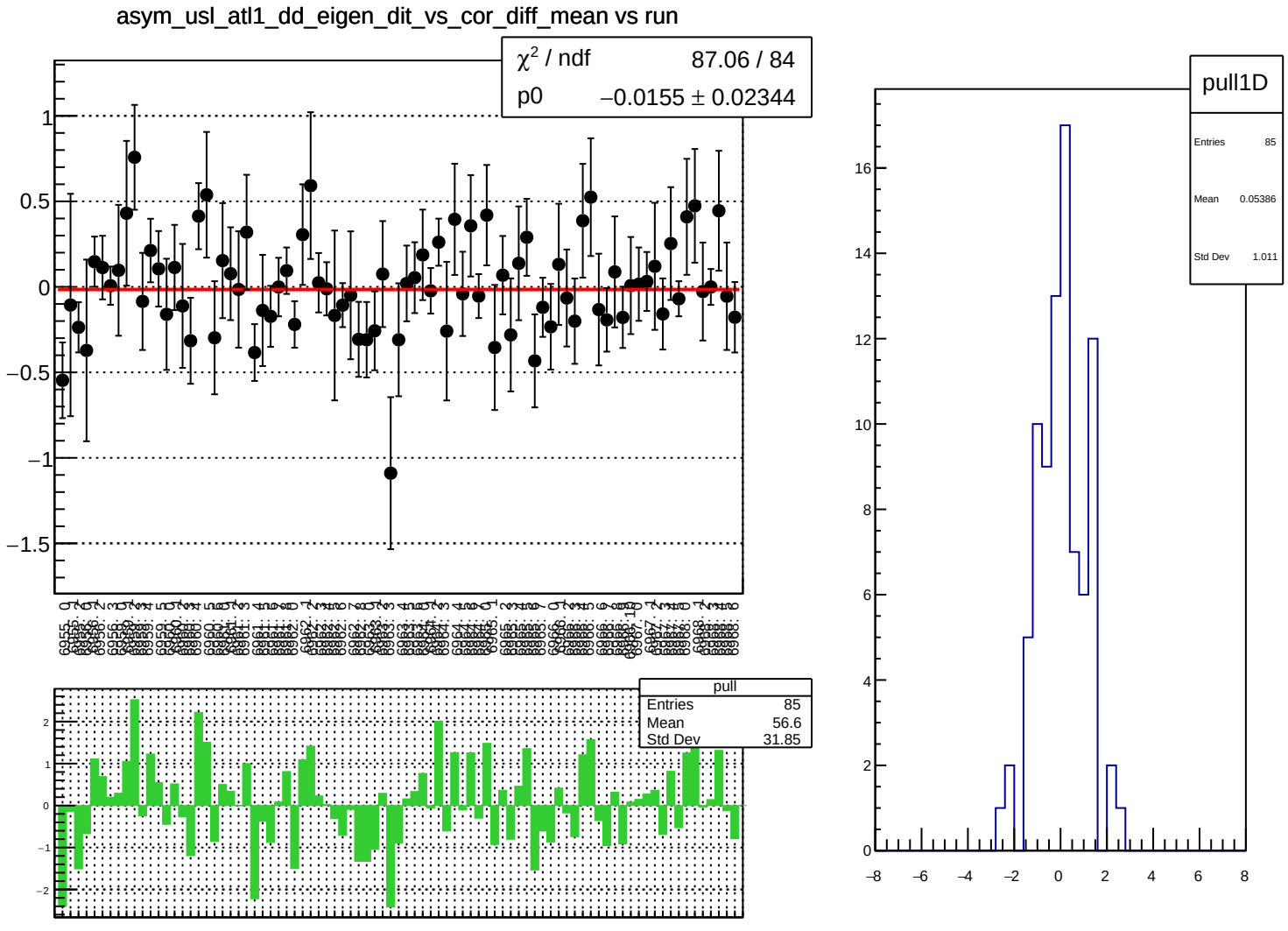

pull1D
Entries 85
Mean 0.05386
Std Dev 1.011

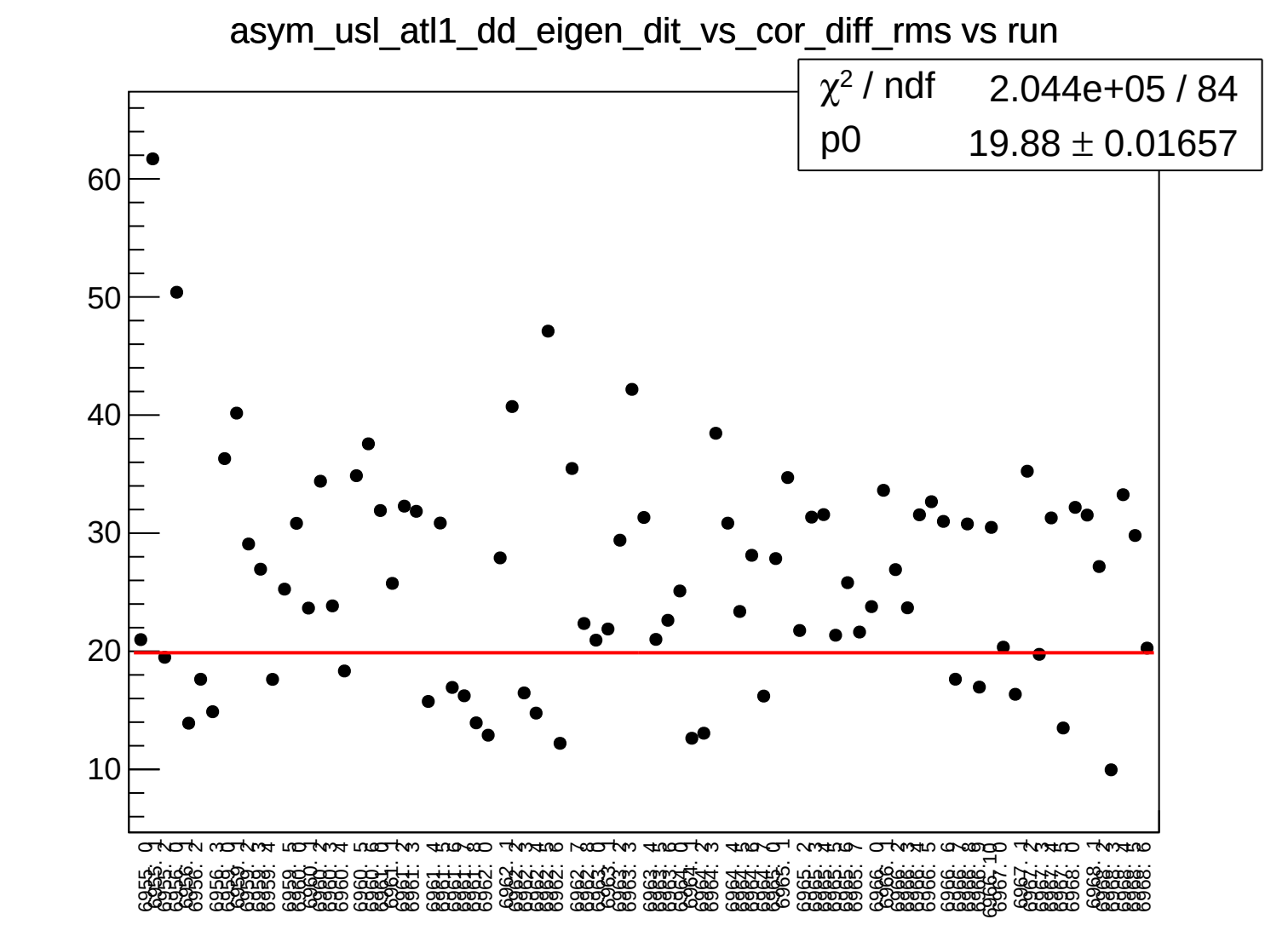

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.044e+05 / 84
p0 19.88 ± 0.01657
60
50
40
30
20
10

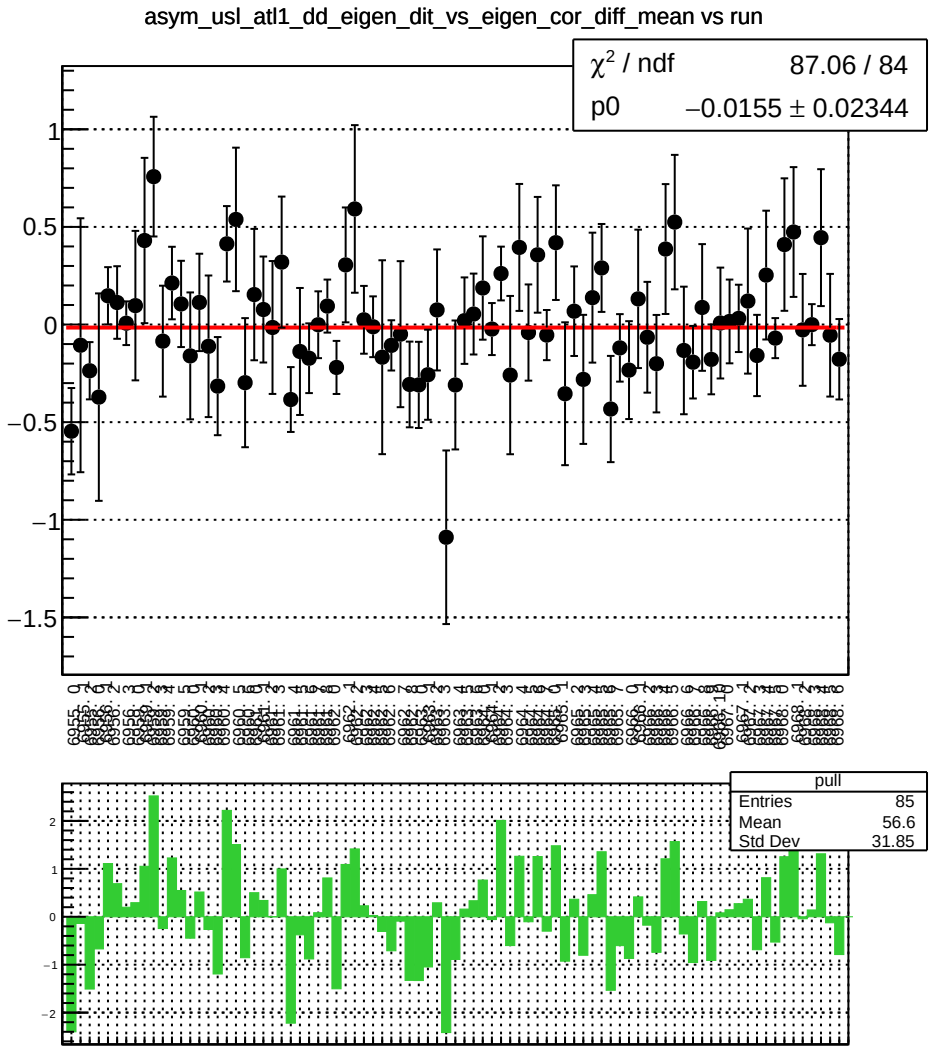

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.86 / 84
p0 −8.224e−07 ± 3.431e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean −0.9328
Std Dev 17.96
2
1
0
−1
−2
−3

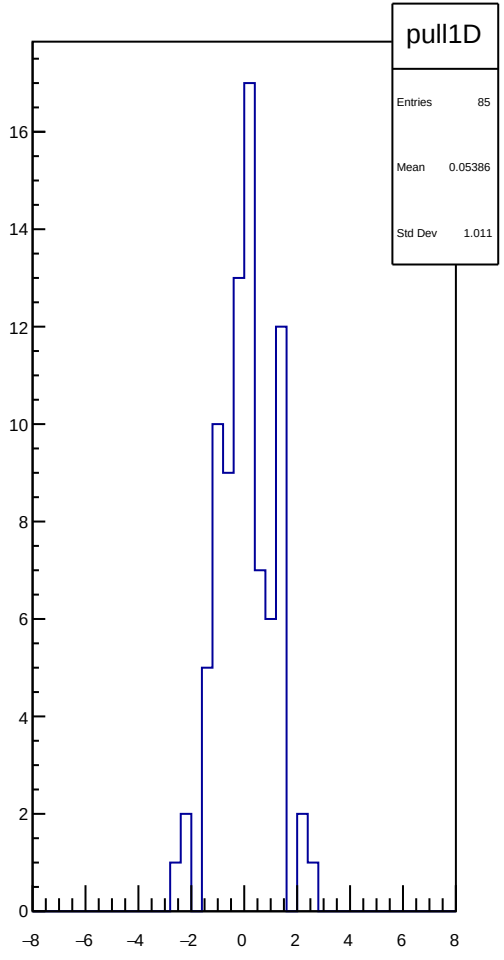

pull1D
Entries 85
Mean 0.01398
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

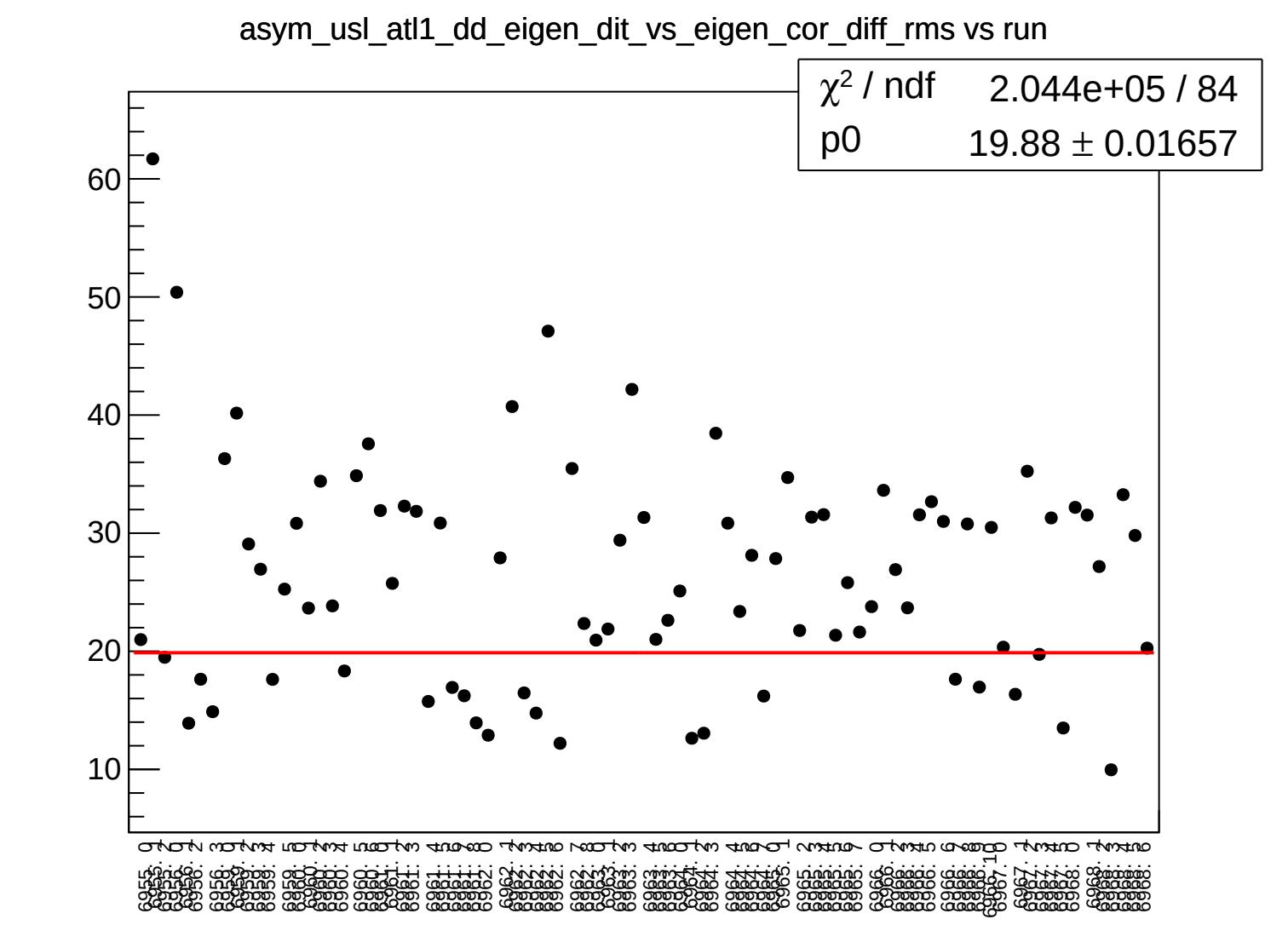

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9535 / 84
p0 0.0031 ± 2.426e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

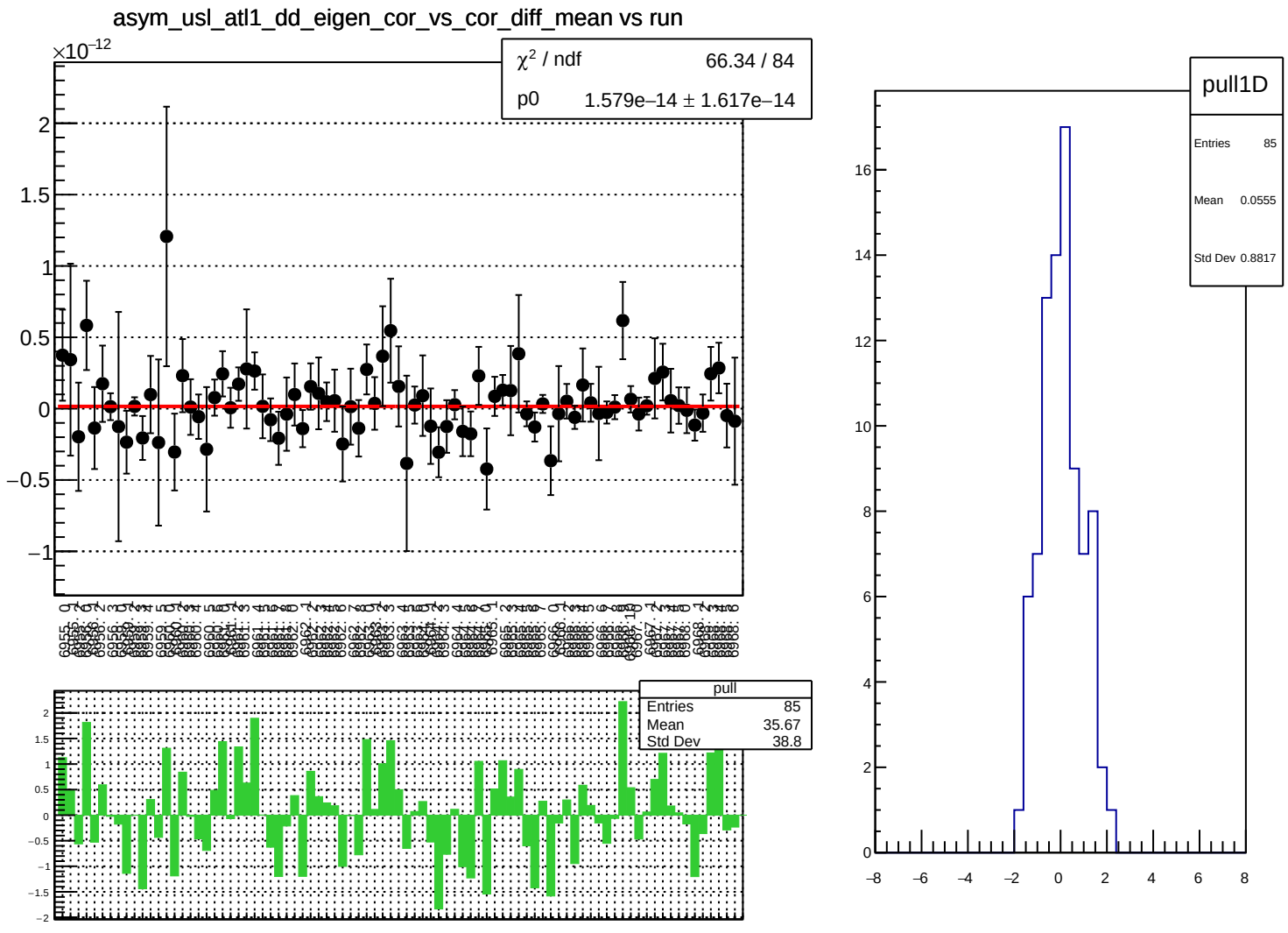

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.06 / 84
p0 −0.0155 ± 0.02344
pull
Entries 85
Mean 56.6
Std Dev 31.85
pull1D
Entries 85
Mean 0.05386
Std Dev 1.011

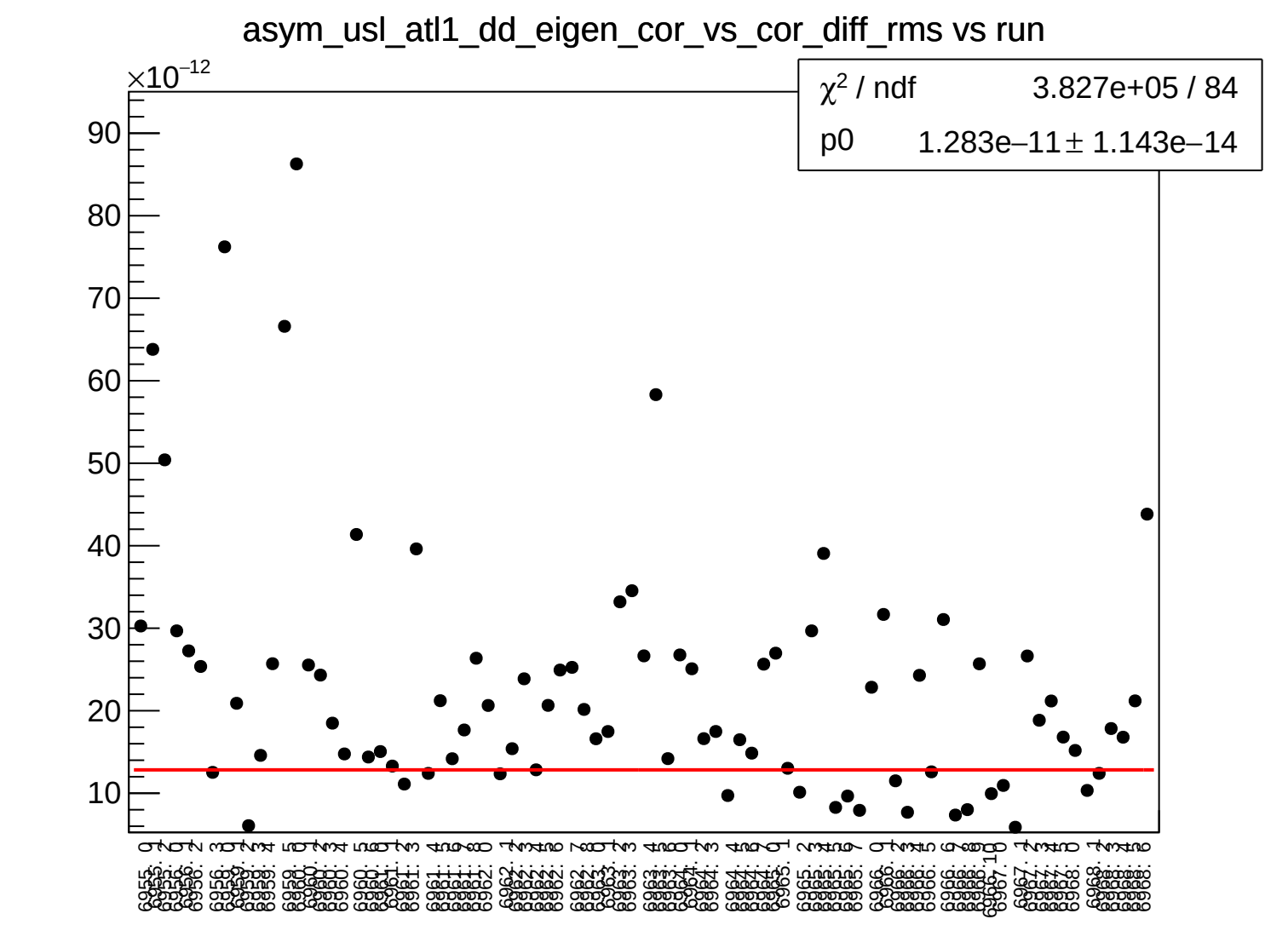

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.044e+05 / 84
p0 19.88 ± 0.01657
60
50
40
30
20
10

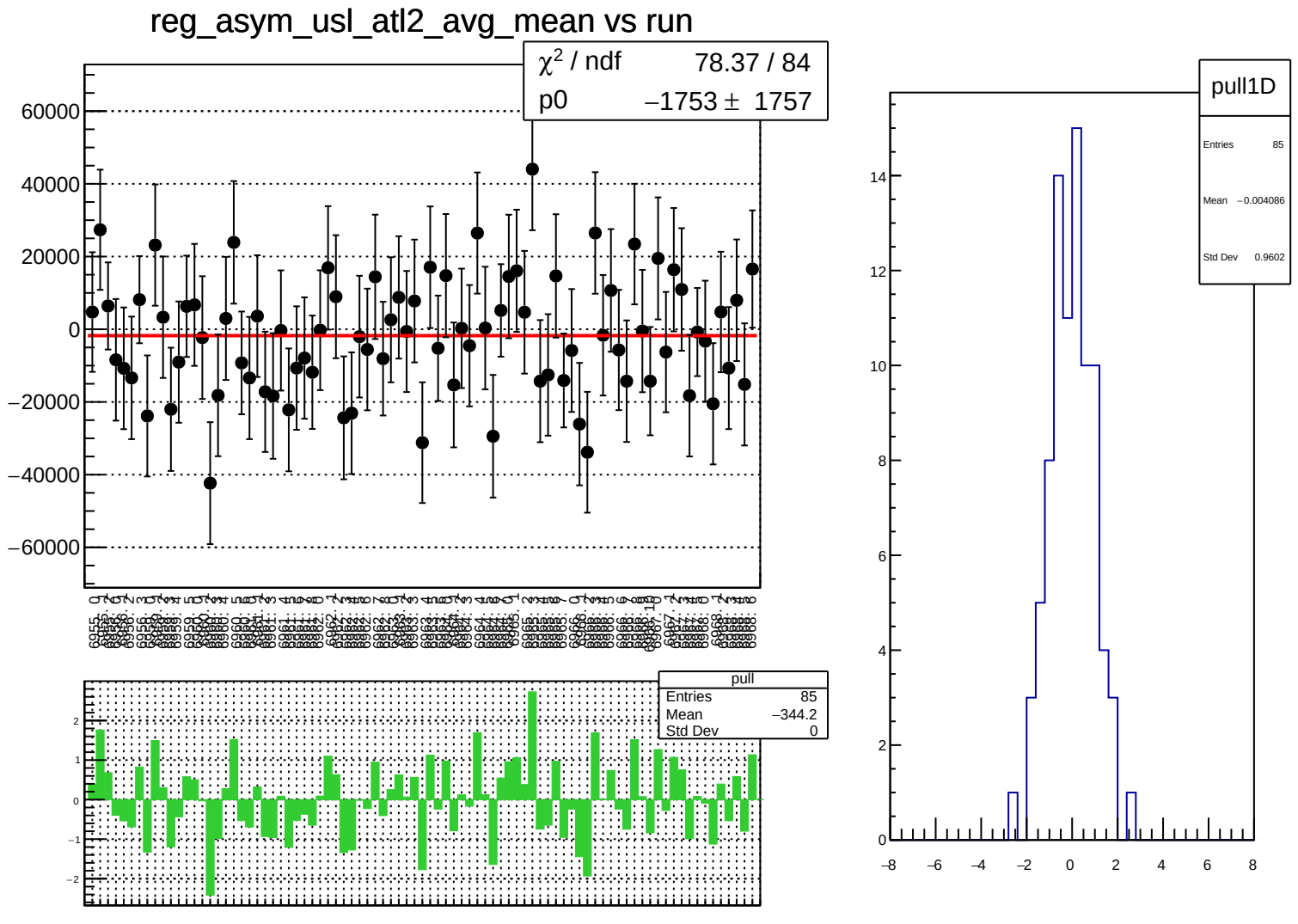

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.06 / 84
p0 −0.0155 ± 0.02344
pull
Entries 85
Mean 56.6
Std Dev 31.85

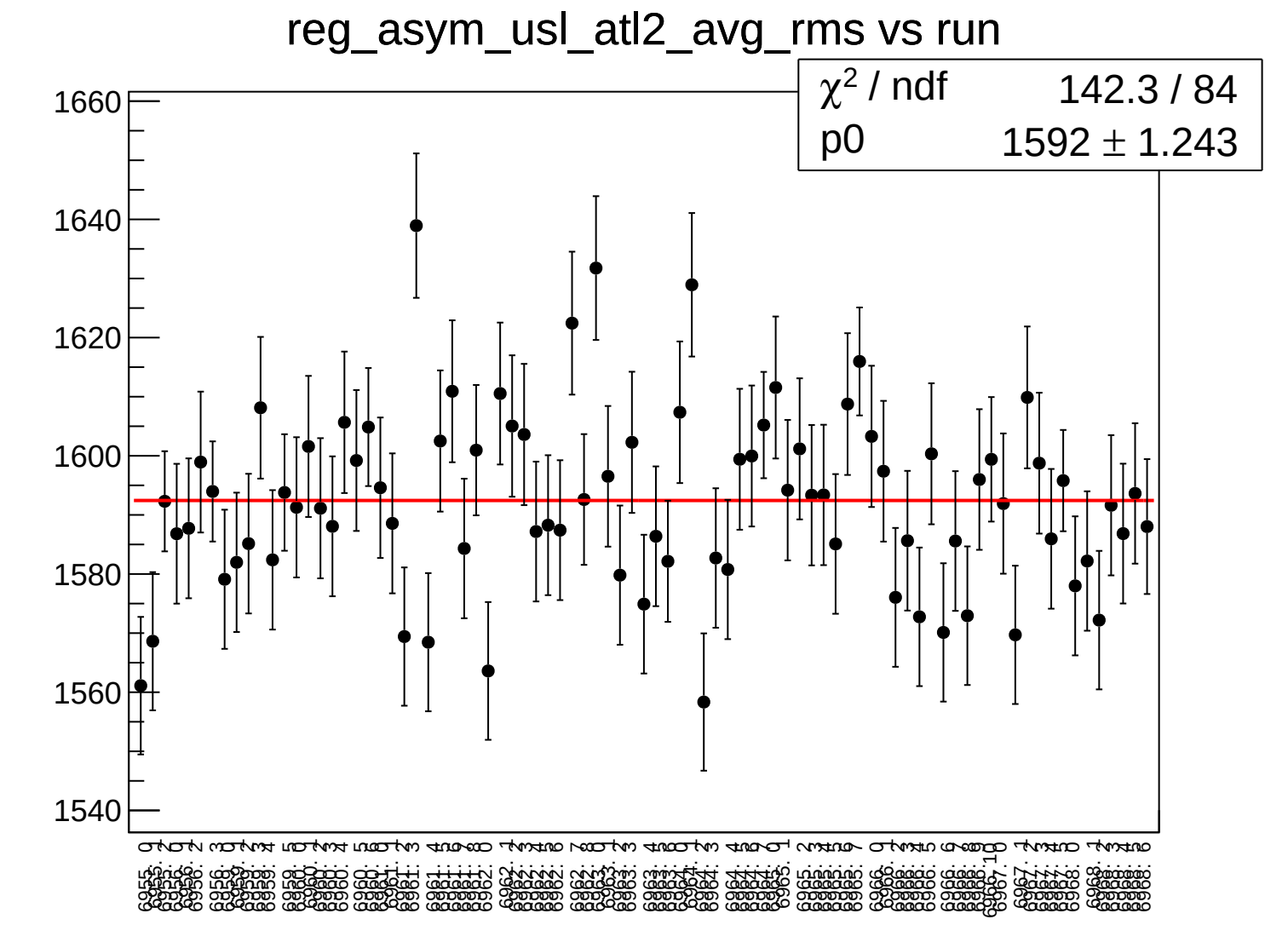

pull1D
Entries 85
Mean 0.05386
Std Dev 1.011

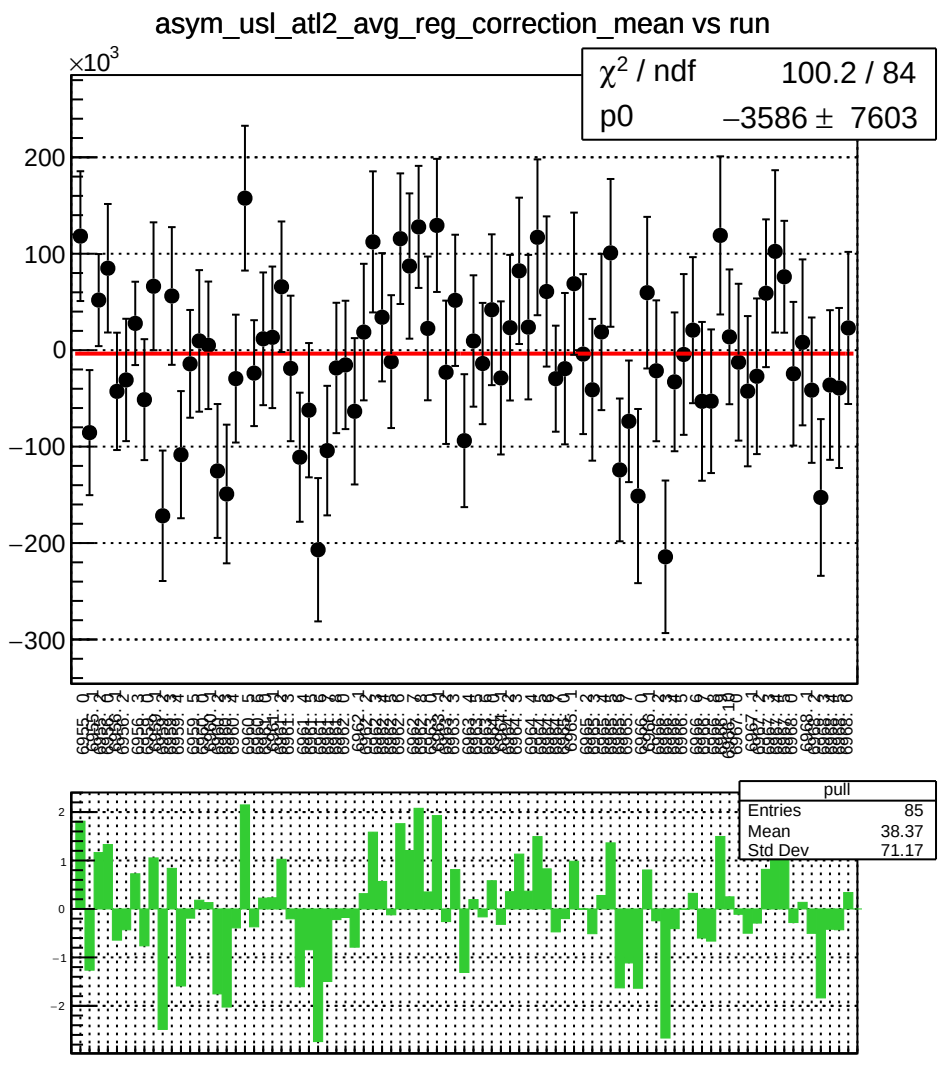

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.044e+05 / 84
p0 19.88 ± 0.01657
60
50
40
30
20
10

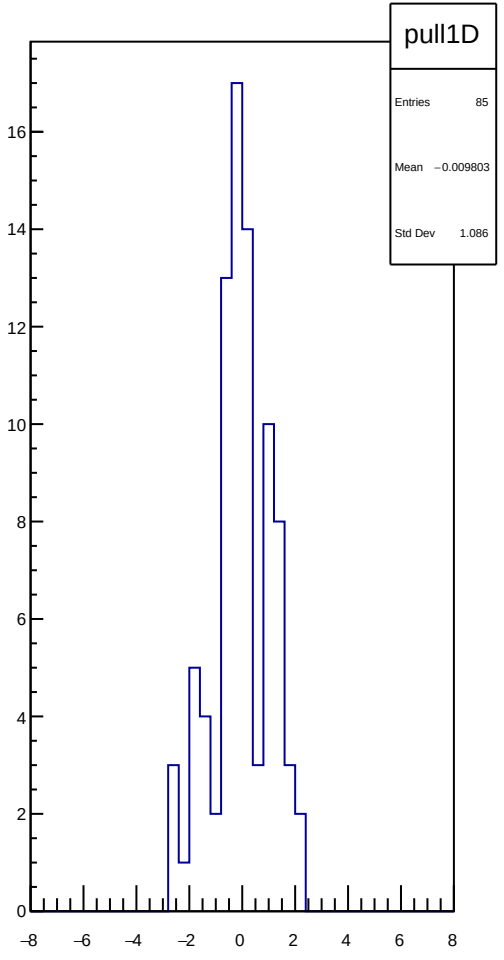

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.34 / 84
p0 1.579e−14 ± 1.617e−14
pull
Entries 85
Mean 35.67
Std Dev 38.8
pull1D
Entries 85
Mean 0.0555
Std Dev 0.8817

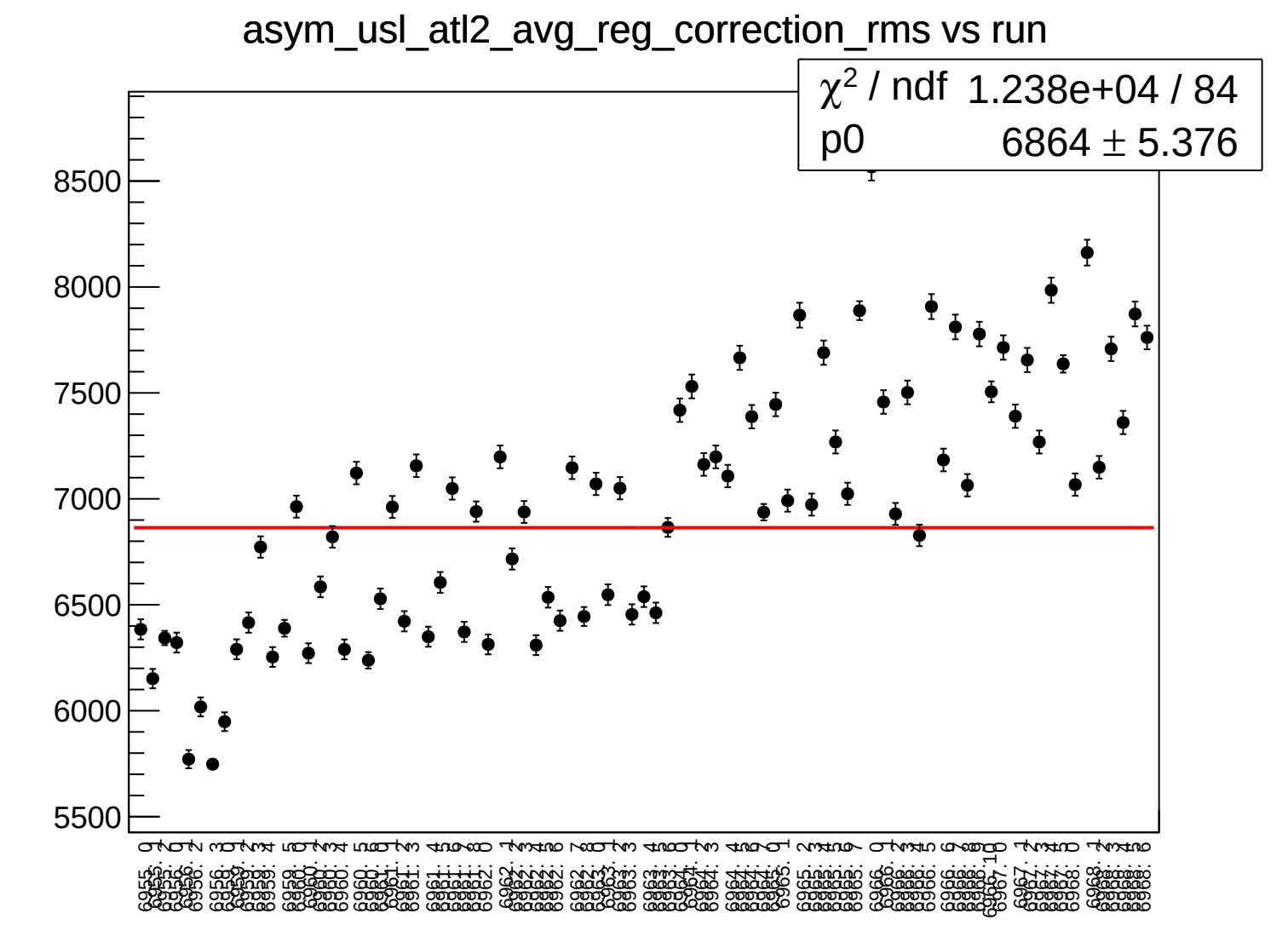

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.827e+05 / 84
p0 1.283e−11 ± 1.143e−14
90
80
70
60
50
40
30
20
10

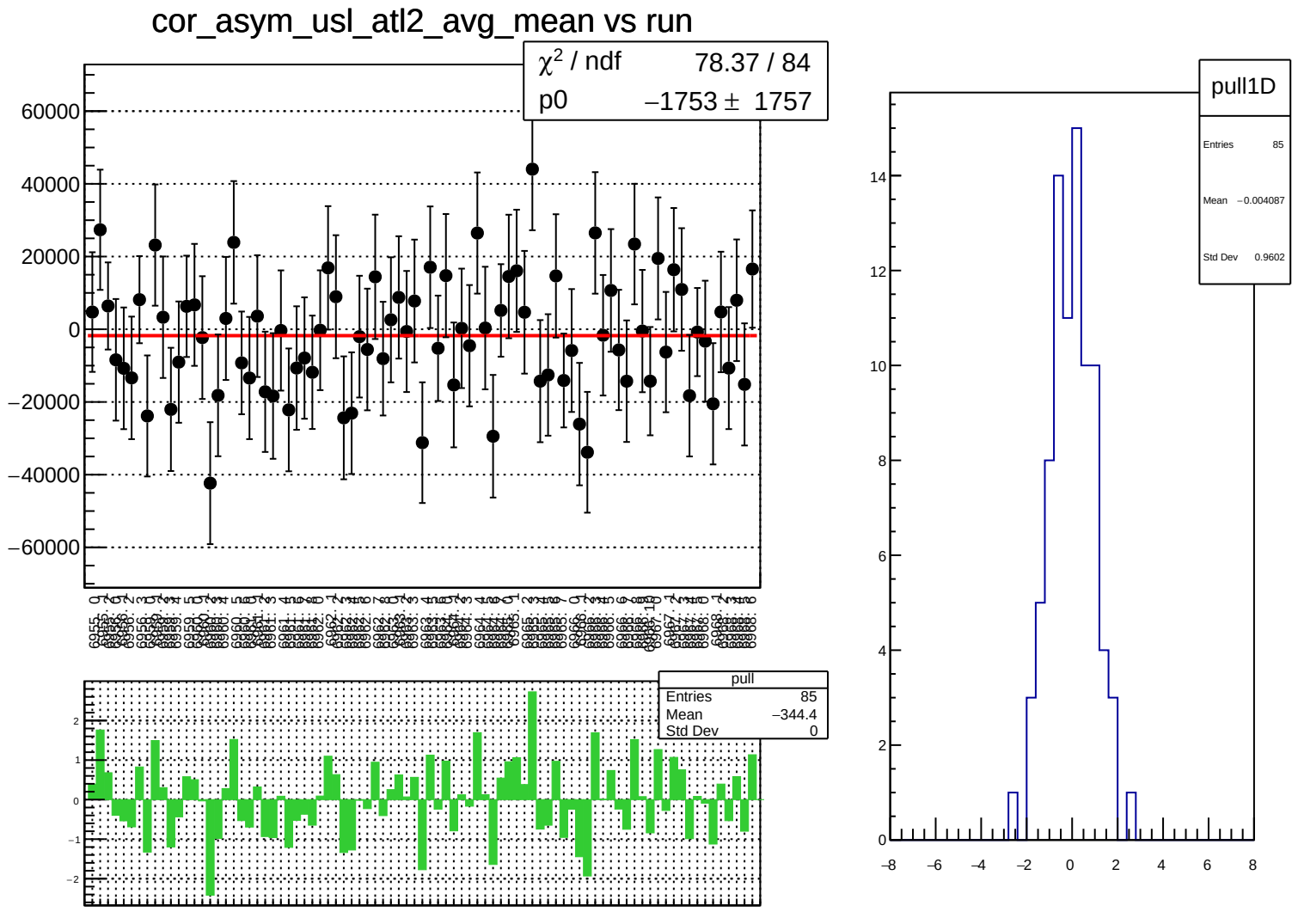

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 78.37 / 84
p0 −1753 ± 1757
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −344.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.004086
Std Dev 0.9602
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

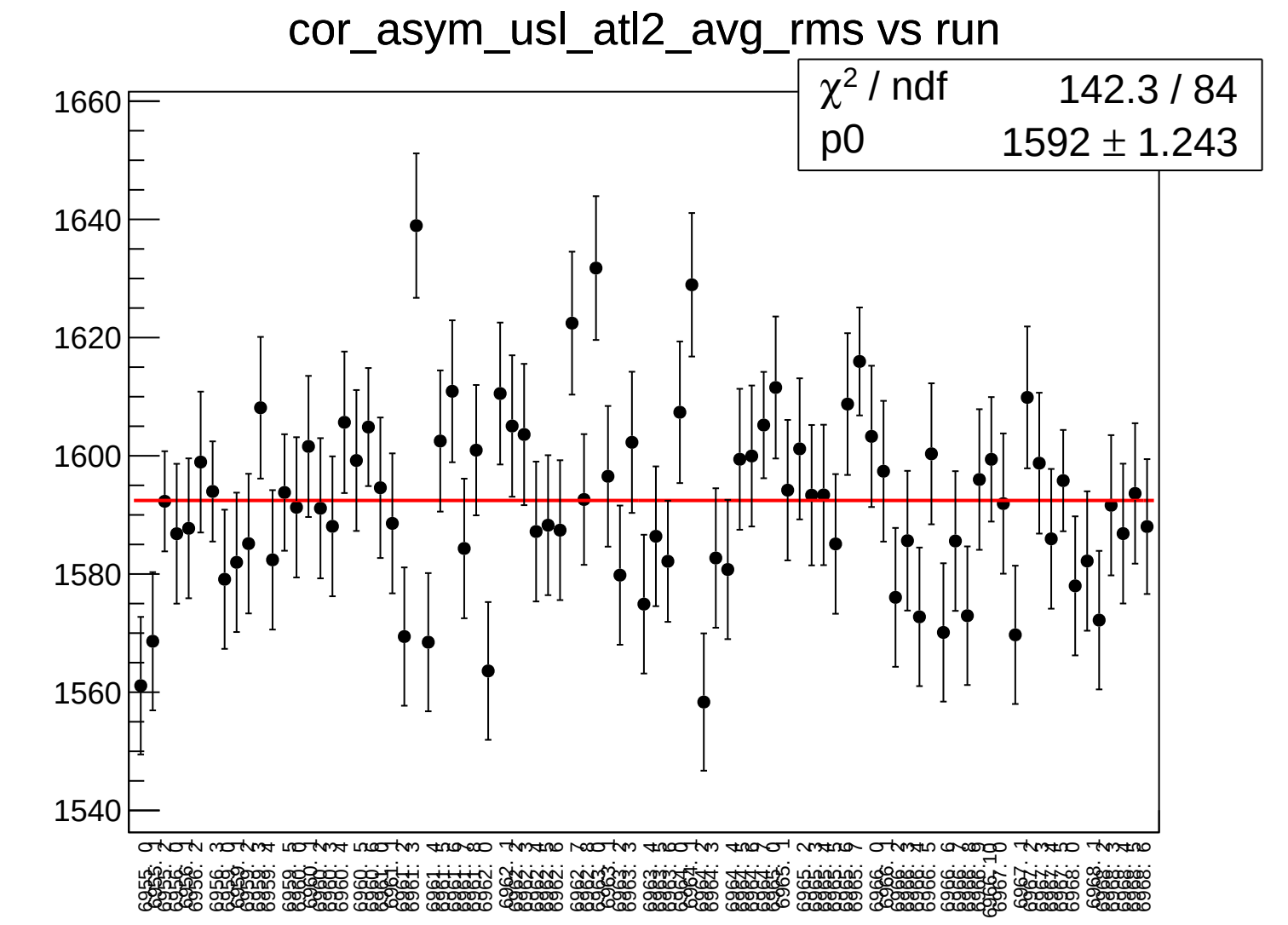

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 142.3 / 84
p0 1592 ± 1.243
1660
1640
1620
1600
1580
1560
1540

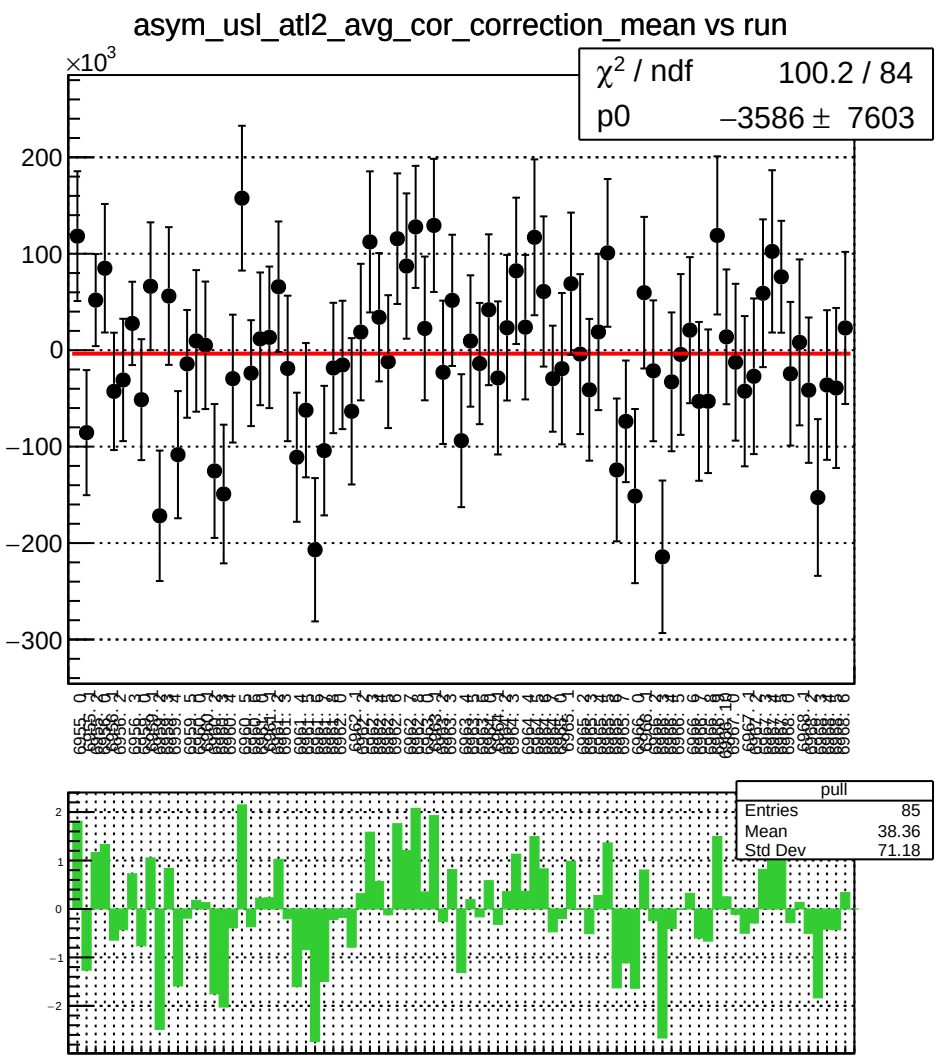

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 100.2 / 84
p0 −3586 ± 7603
200
100
0
−100
−200
−300
pull
Entries 85
Mean 38.37
Std Dev 71.17
2
1
0
−1
−2

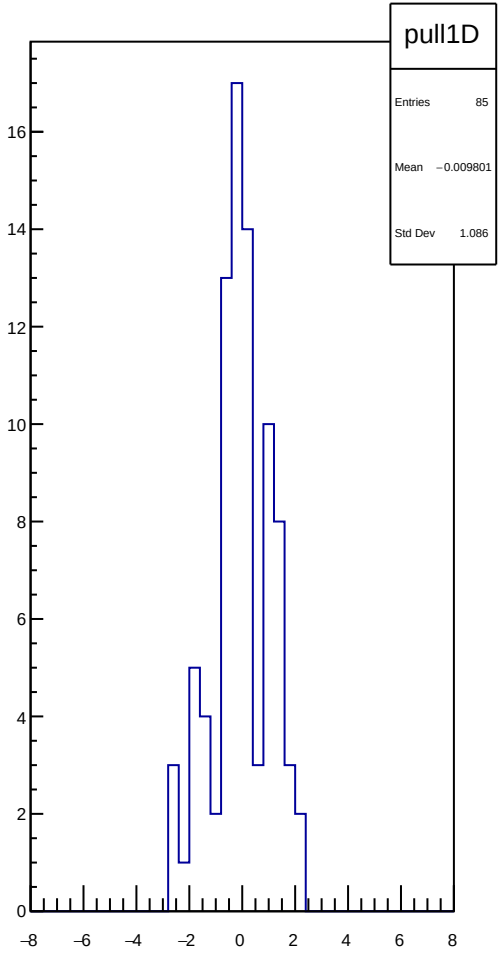

pull1D
Entries 85
Mean −0.009803
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

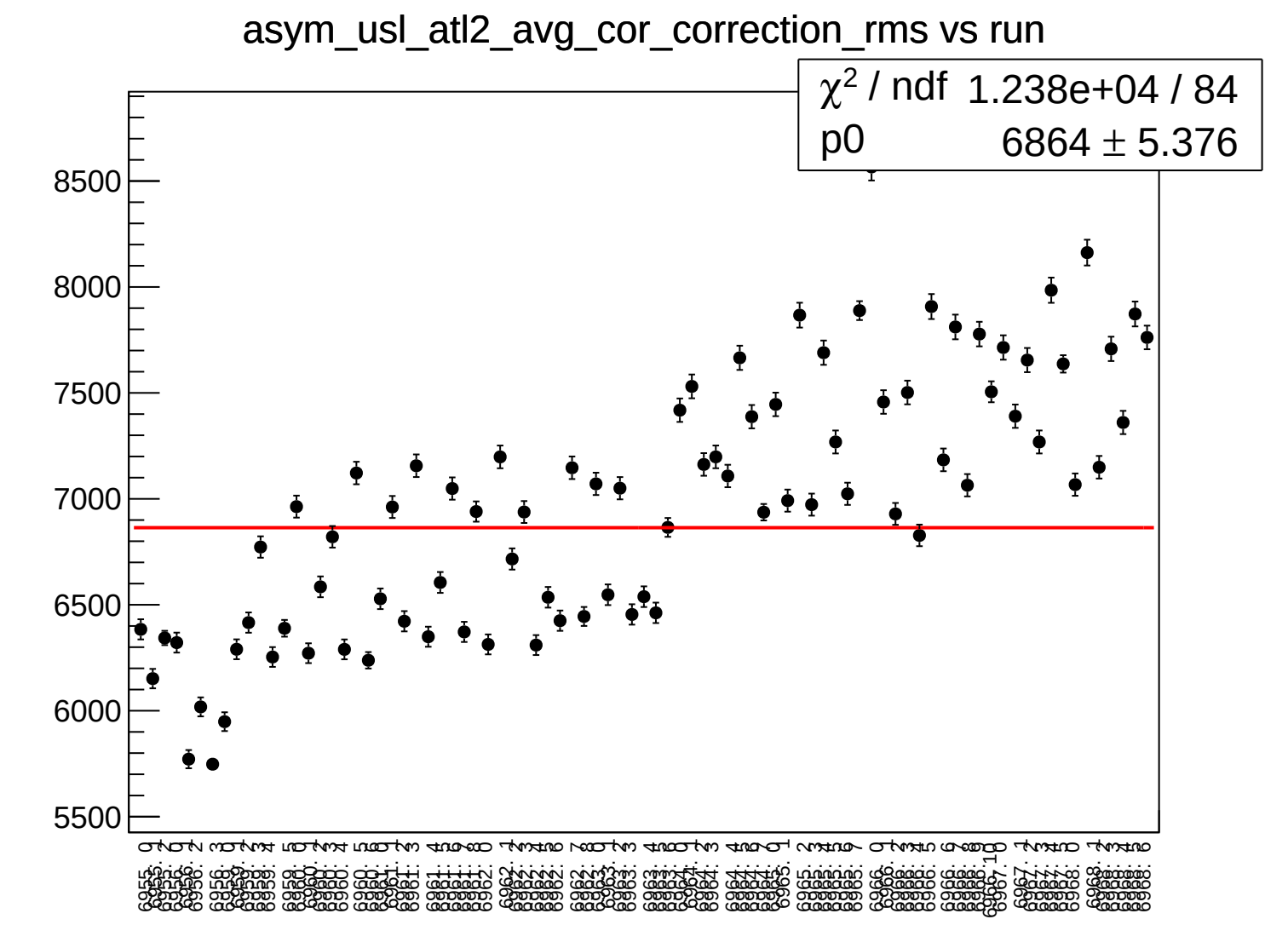

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.238e+04 / 84
p0 6864 ± 5.376
8500
8000
7500
7000
6500
6000
5500

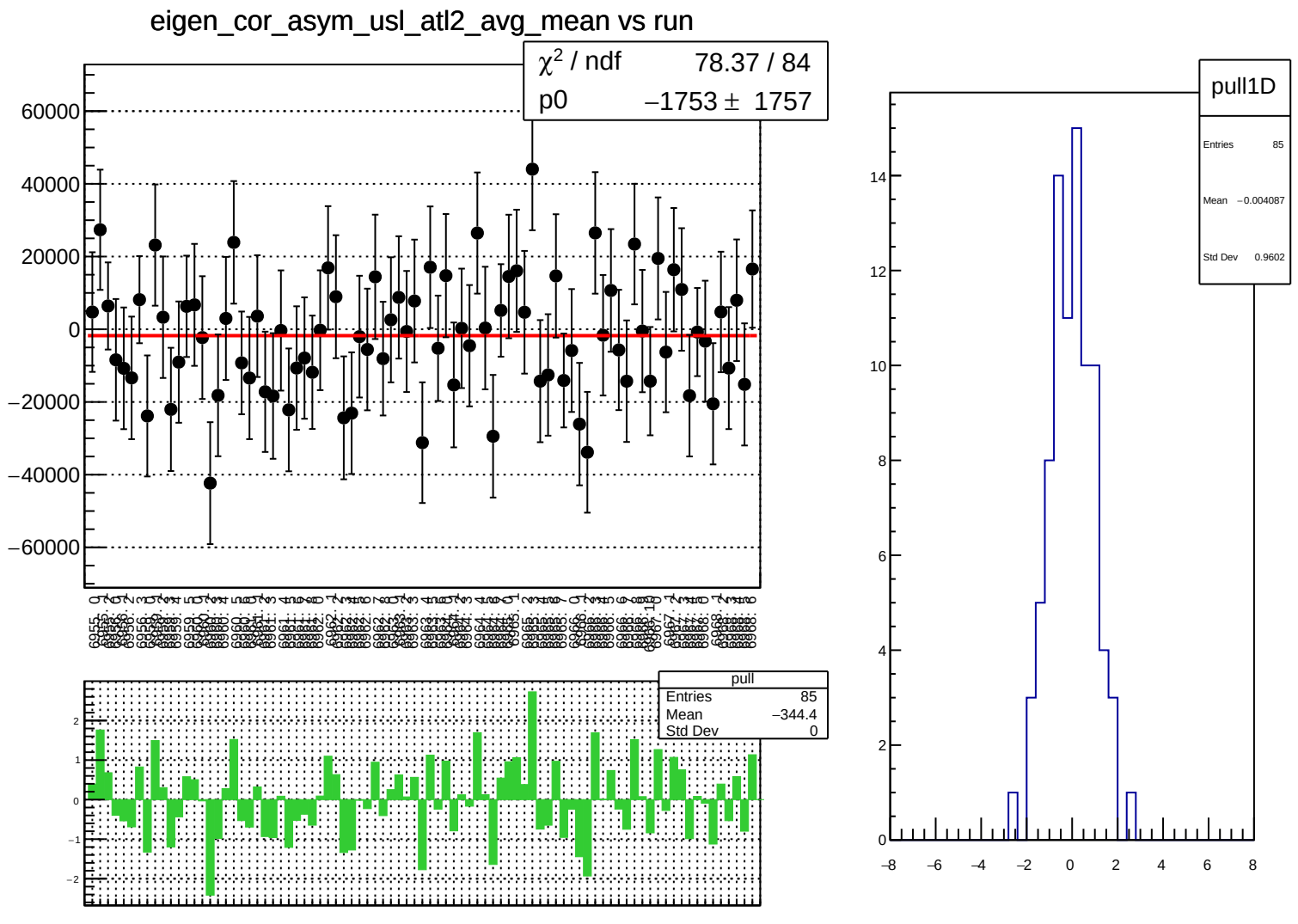

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 78.37 / 84
p0 −1753 ± 1757
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −344.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.004087
Std Dev 0.9602
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

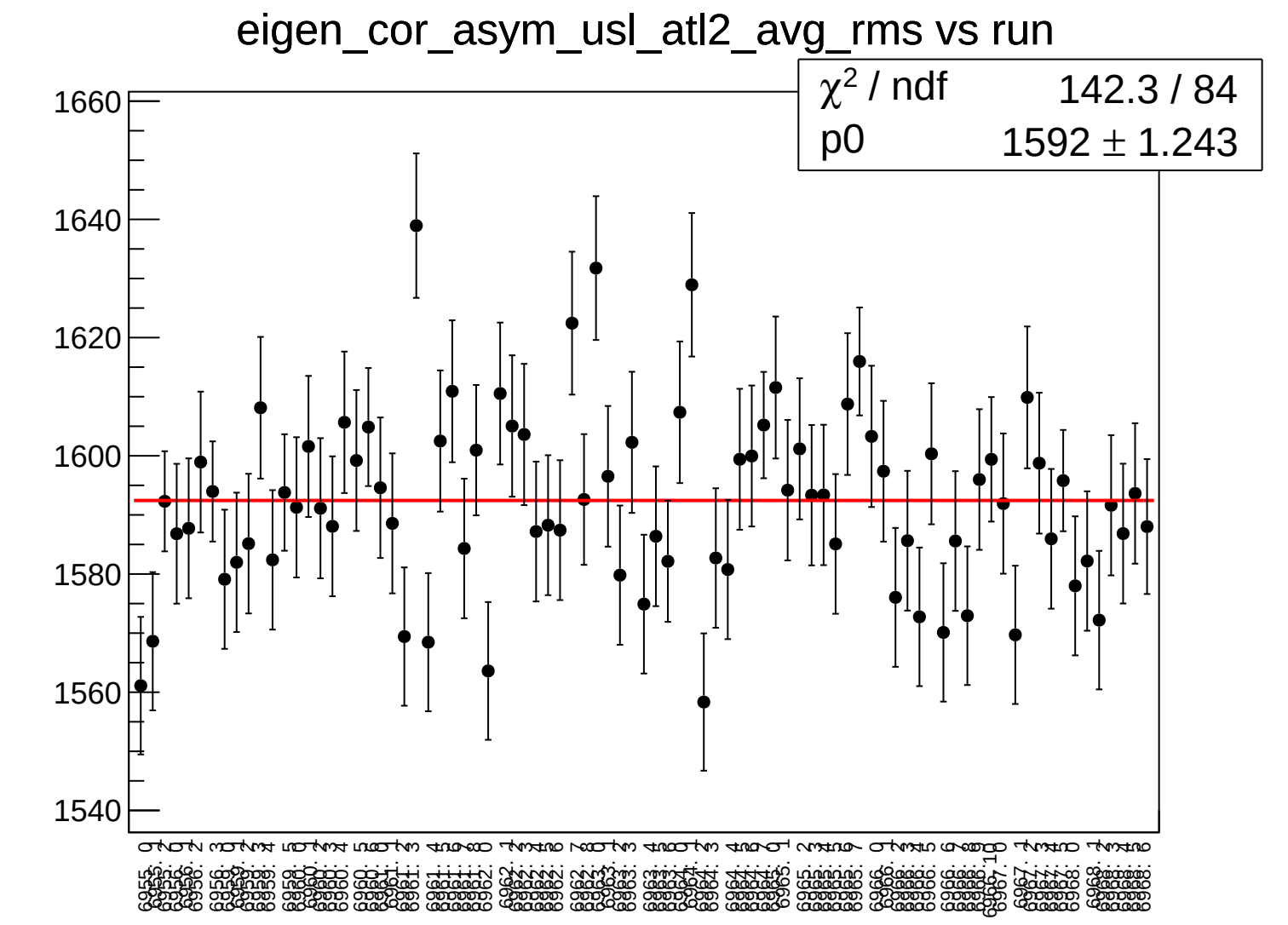

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 142.3 / 84
p0 1592 ± 1.243
1660
1640
1620
1600
1580
1560
1540

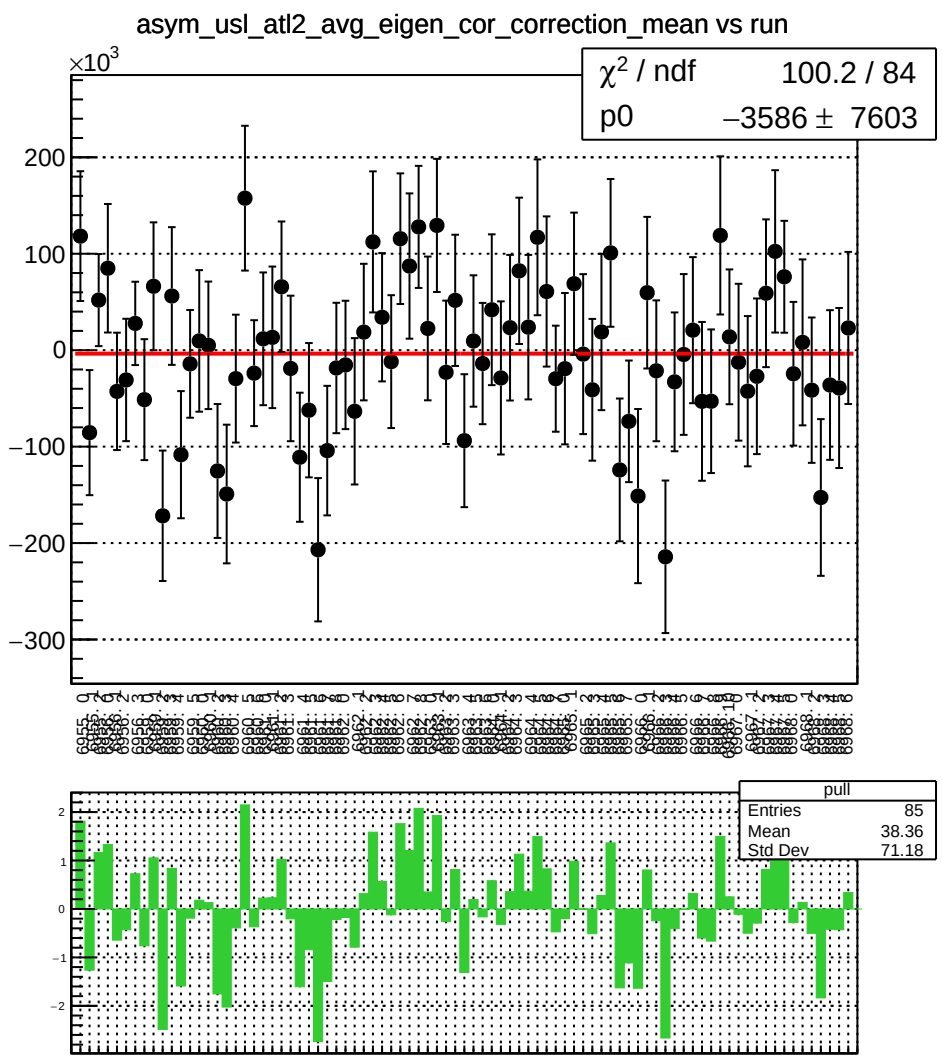

asym_usl_atl2_avg_cor_correction_mean vs run
χ² / ndf 100.2 / 84
p0 −3586 ± 7603
×10³
pull
Entries 85
Mean 38.36
Std Dev 71.18

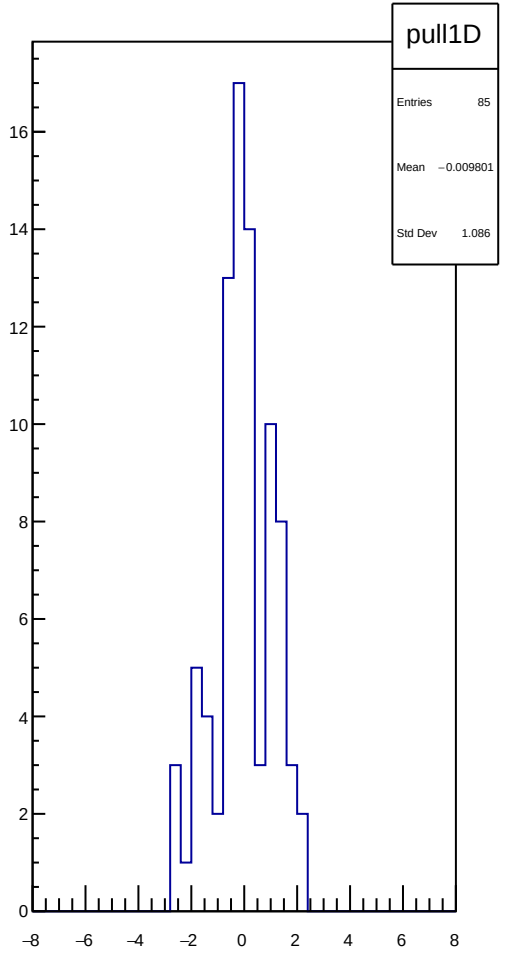

pull1D
Entries 85
Mean −0.009801
Std Dev 1.086

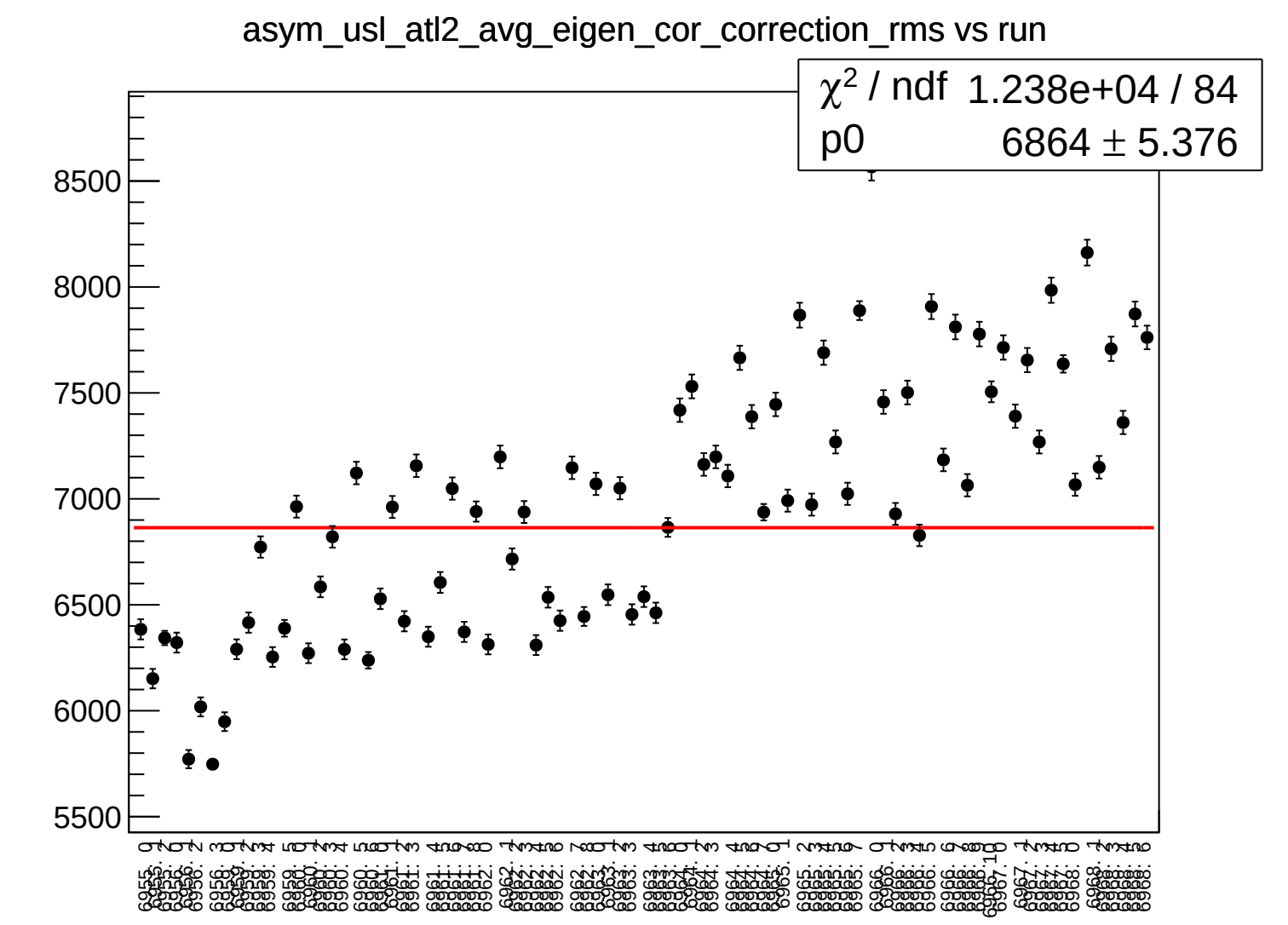

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.238e+04 / 84
p0 6864 ± 5.376
8500
8000
7500
7000
6500
6000
5500

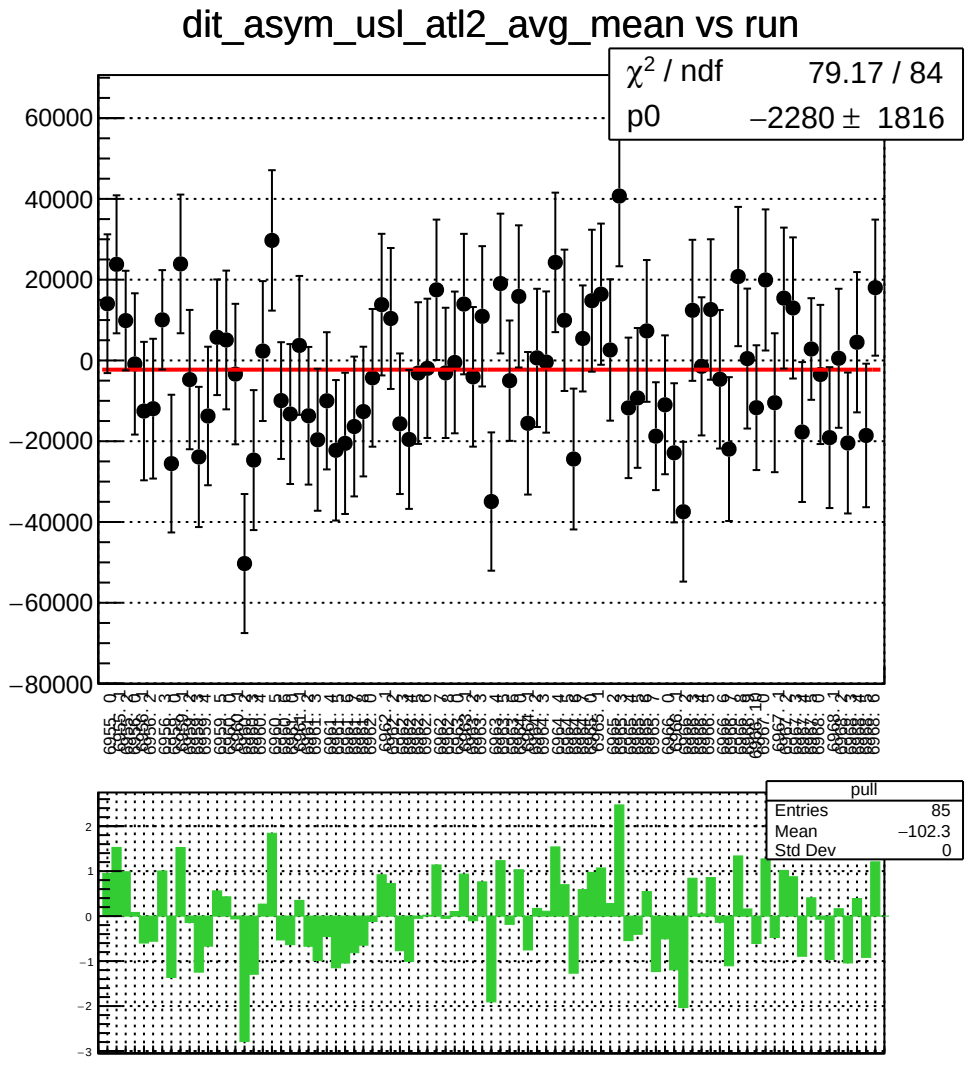

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 78.37 / 84
p0 −1753 ± 1757
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −344.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.004087
Std Dev 0.9602
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

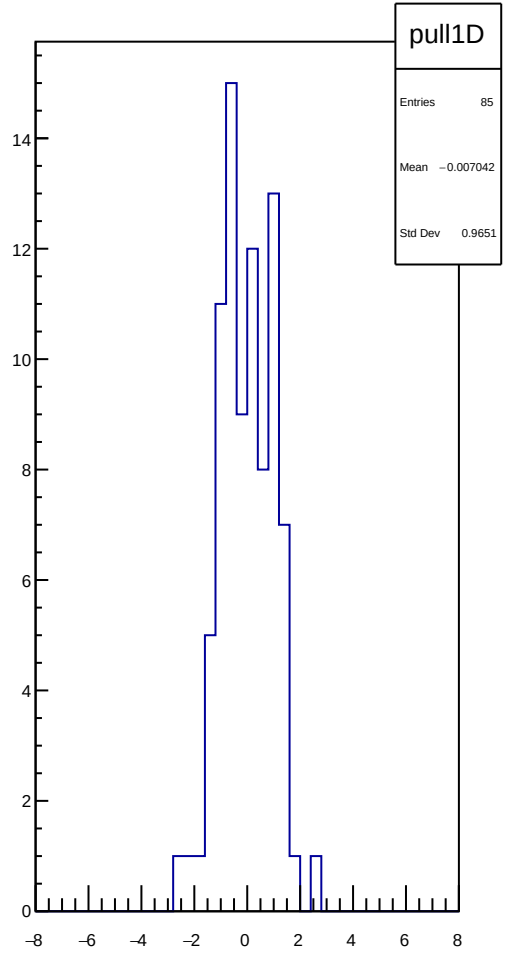

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 142.3 / 84
p0 1592 ± 1.243
1660
1640
1620
1600
1580
1560
1540

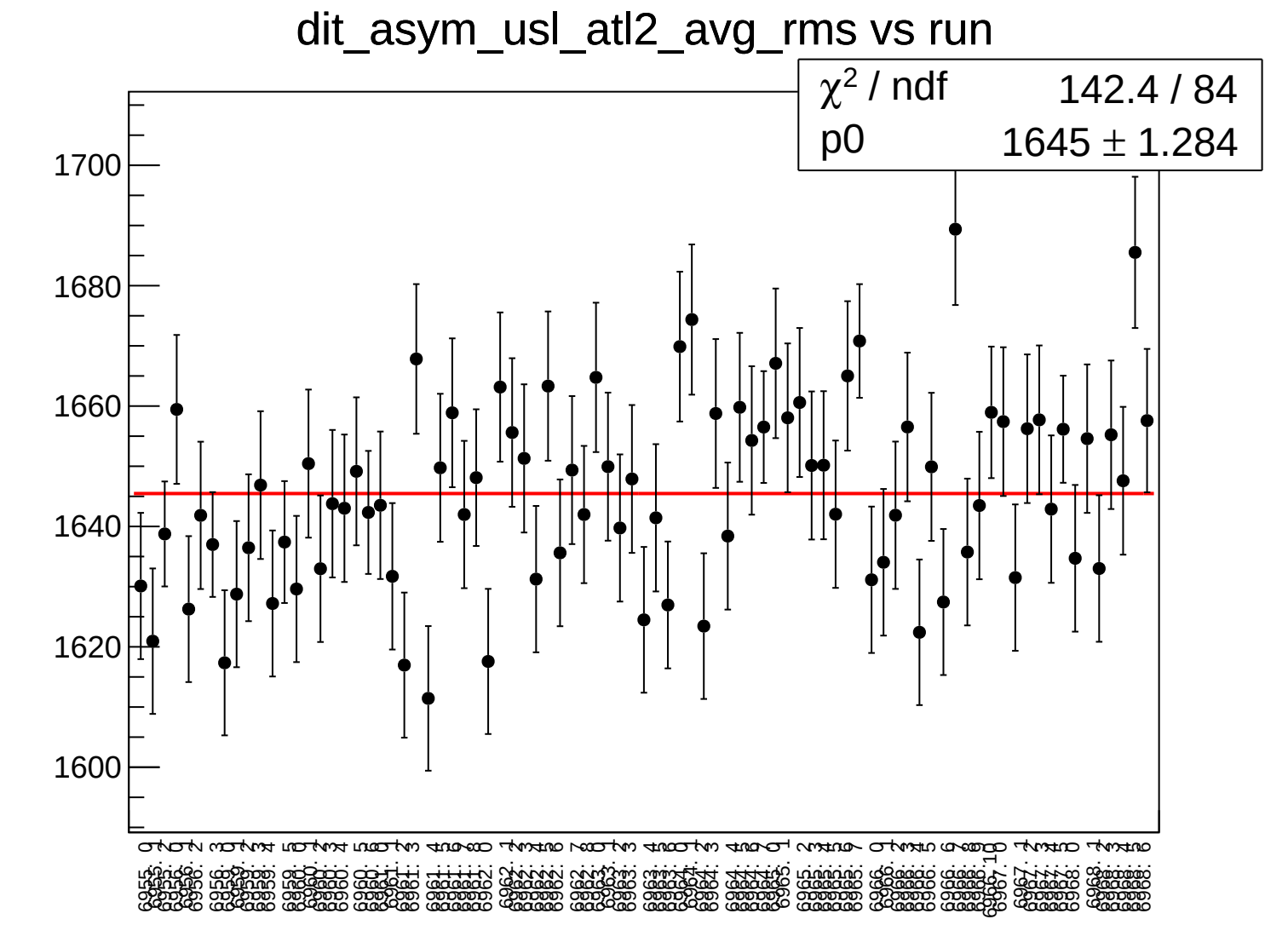

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.2 / 84
p0 −3586 ± 7603
200
100
0
−100
−200
−300
pull
Entries 85
Mean 38.36
Std Dev 71.18
2
1
0
−1
−2

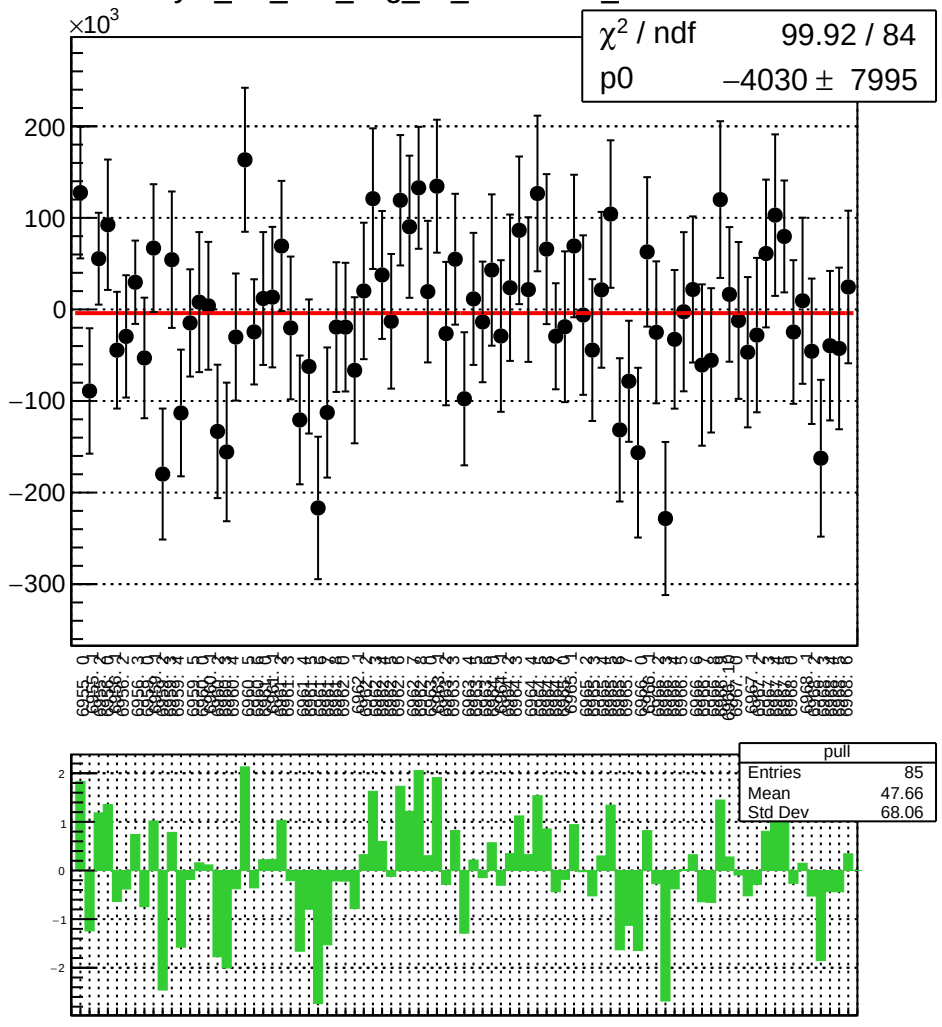

pull1D
Entries 85
Mean −0.009801
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

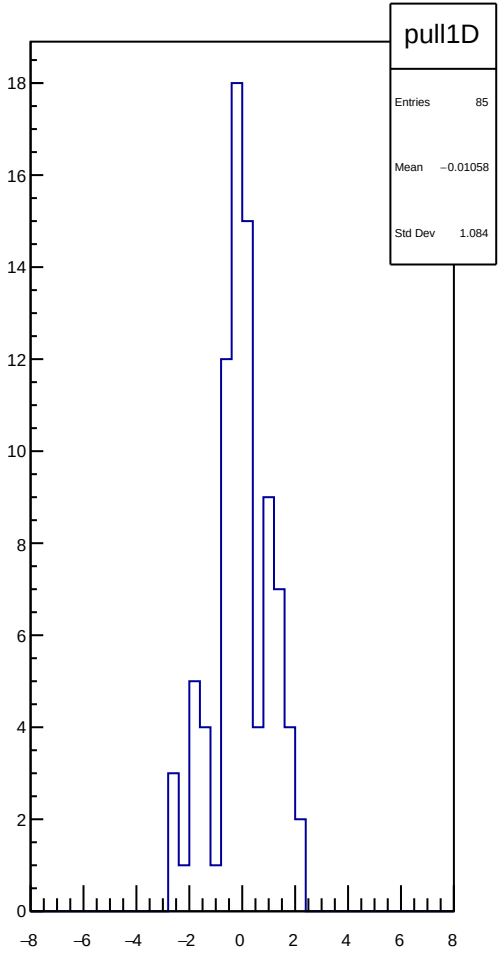

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.238e+04 / 84
p0 6864 ± 5.376
8500
8000
7500
7000
6500
6000
5500

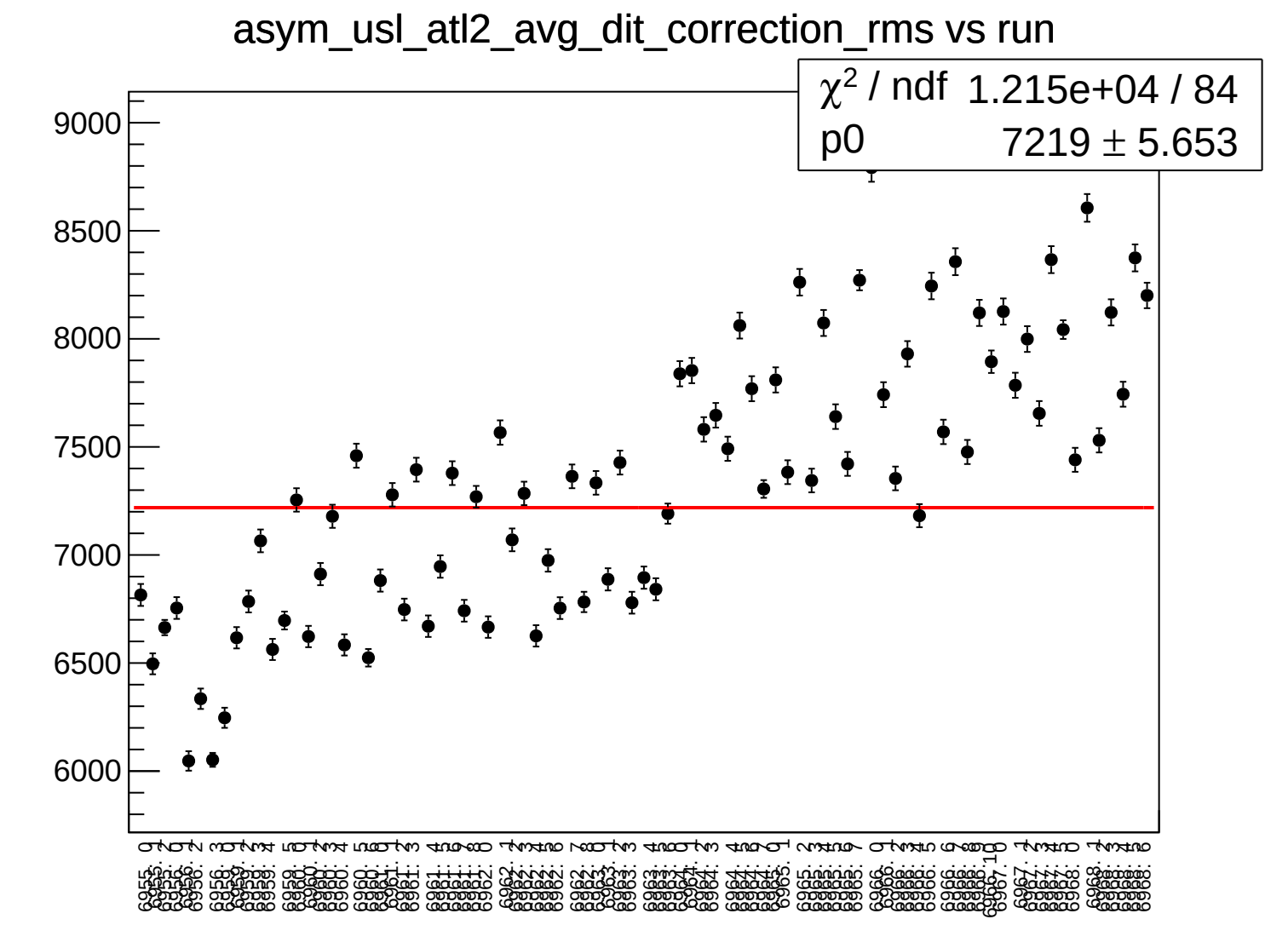

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 79.17 / 84
p0 −2280 ± 1816
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −102.3
Std Dev 0
2
1
0
−1
−2
−3

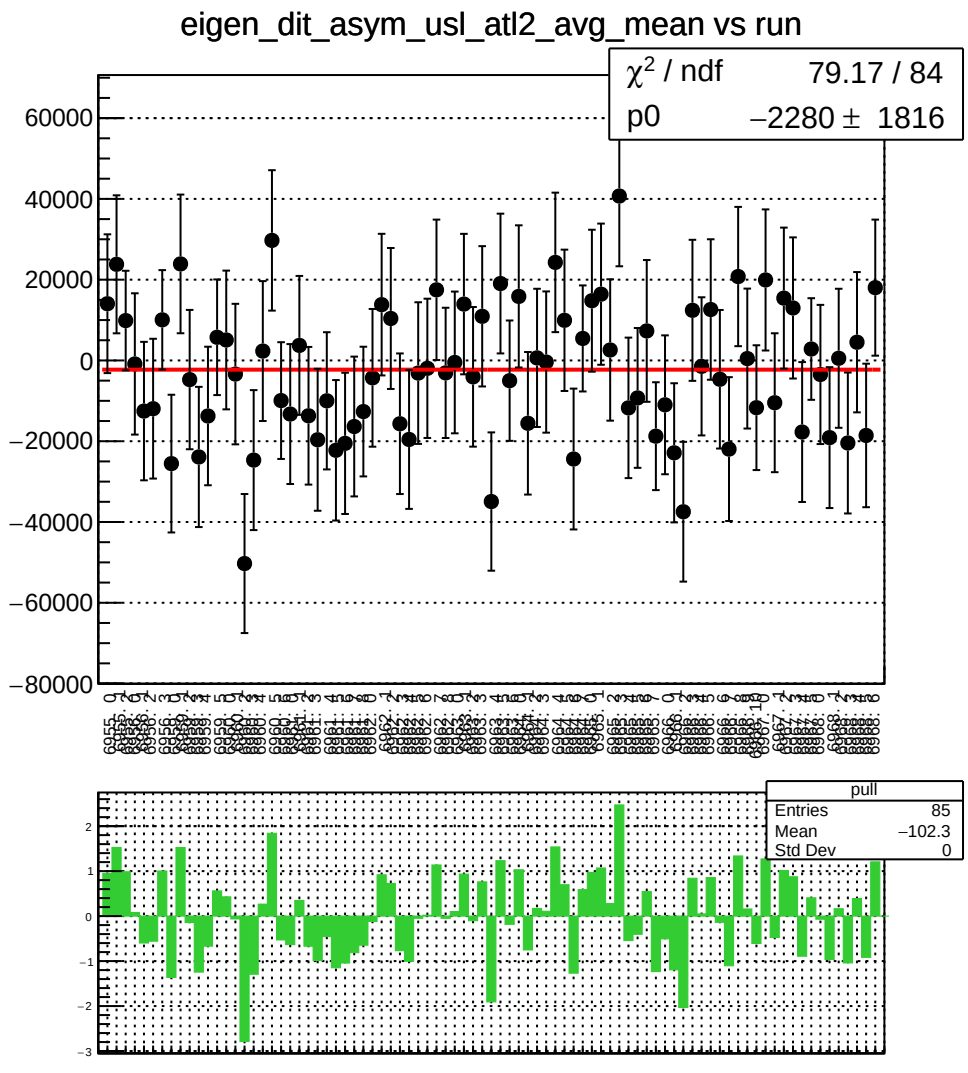

pull1D
Entries 85
Mean −0.007042
Std Dev 0.9651
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

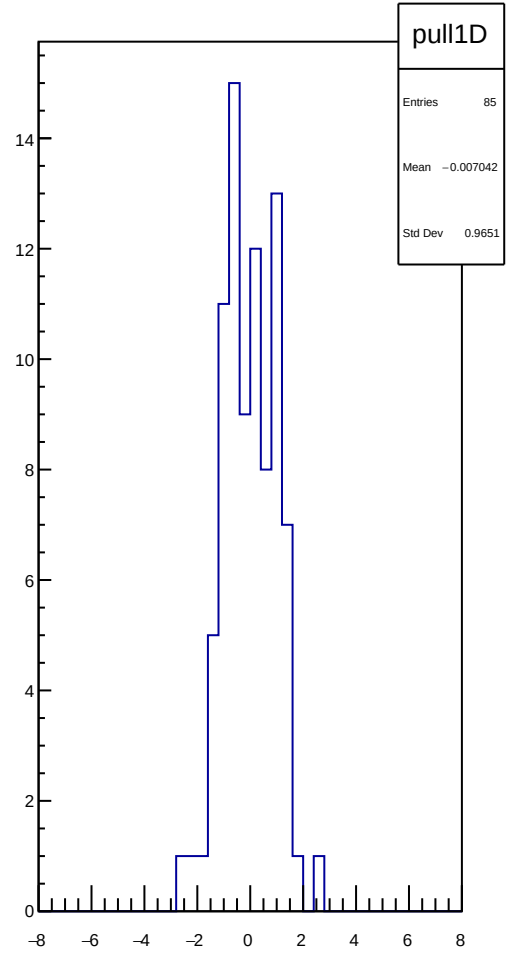

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 142.4 / 84
p0 1645 ± 1.284
1700
1680
1660
1640
1620
1600

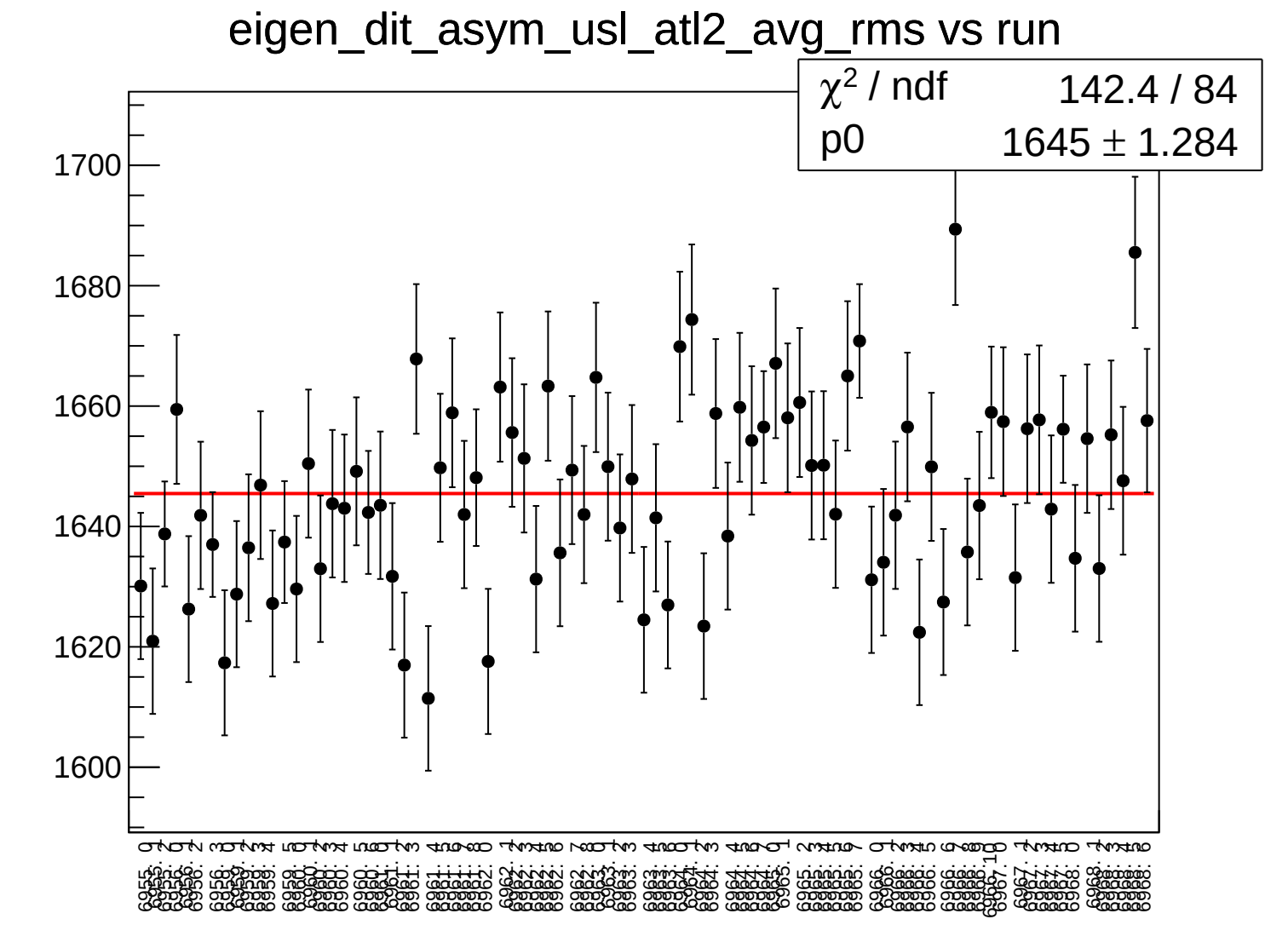

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.92 / 84
p0 −4030 ± 7995
200
100
0
−100
−200
−300
pull
Entries 85
Mean 47.66
Std Dev 68.06
2
1
0
−1
−2

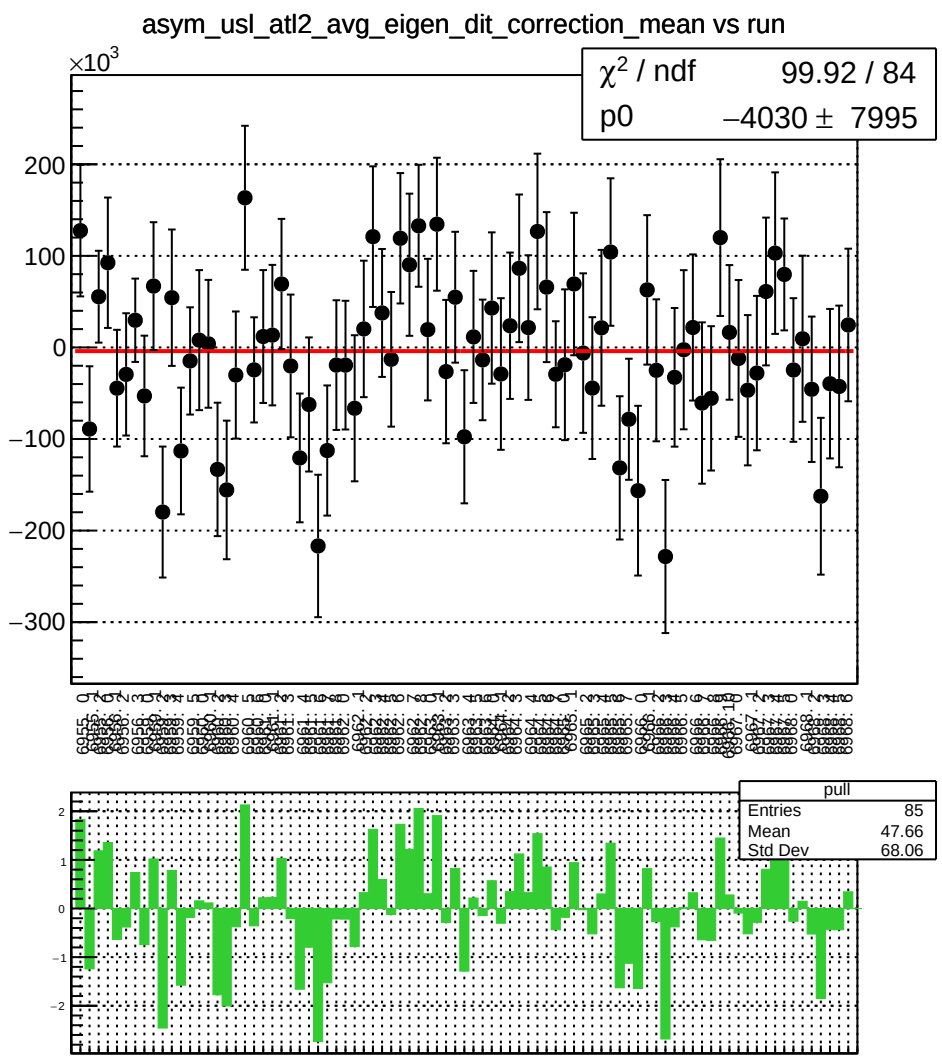

pull1D
Entries 85
Mean −0.01058
Std Dev 1.084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

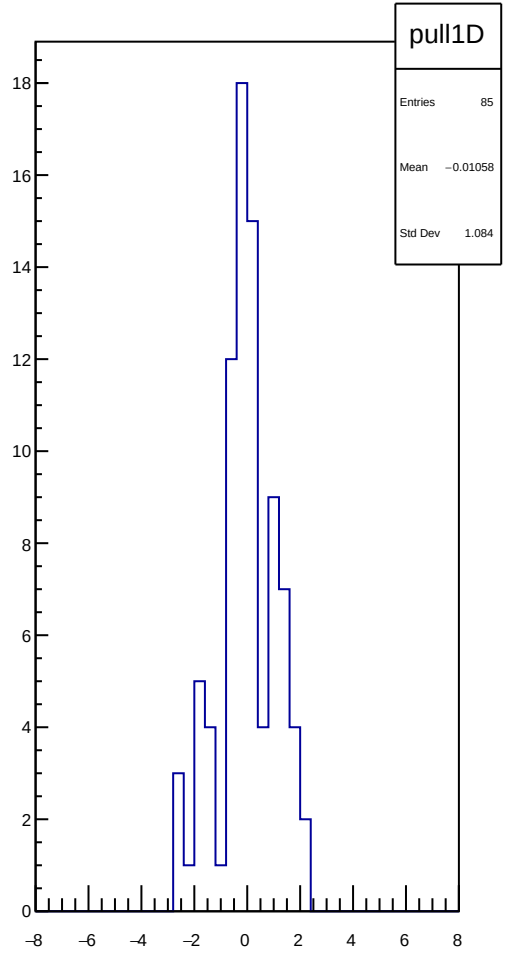

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1.215e+04 / 84
p0 7219 ± 5.653
9000
8500
8000
7500
7000
6500
6000

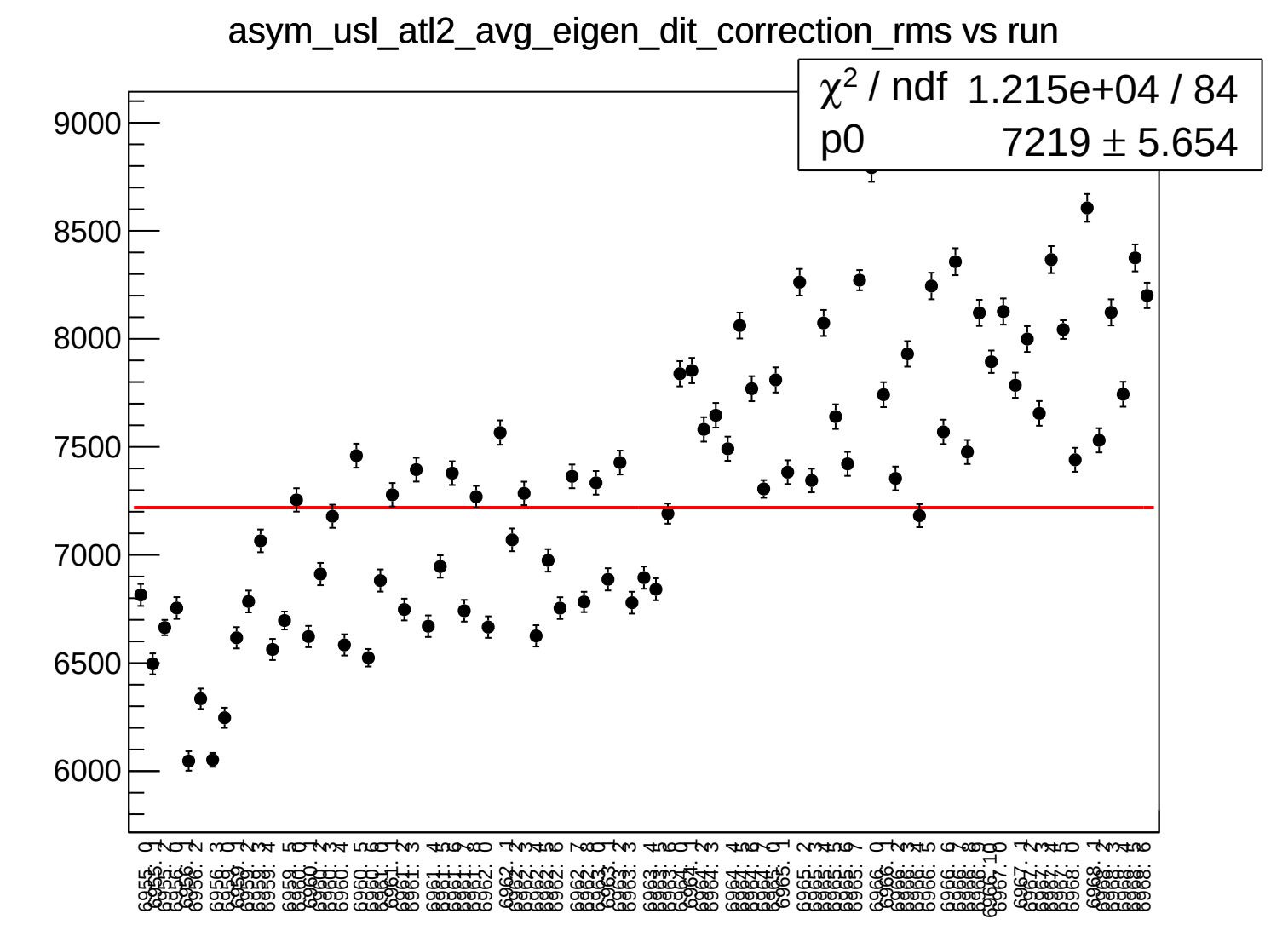

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 79.17 / 84
p0 −2280 ± 1816
pull
Entries 85
Mean −102.3
Std Dev 0

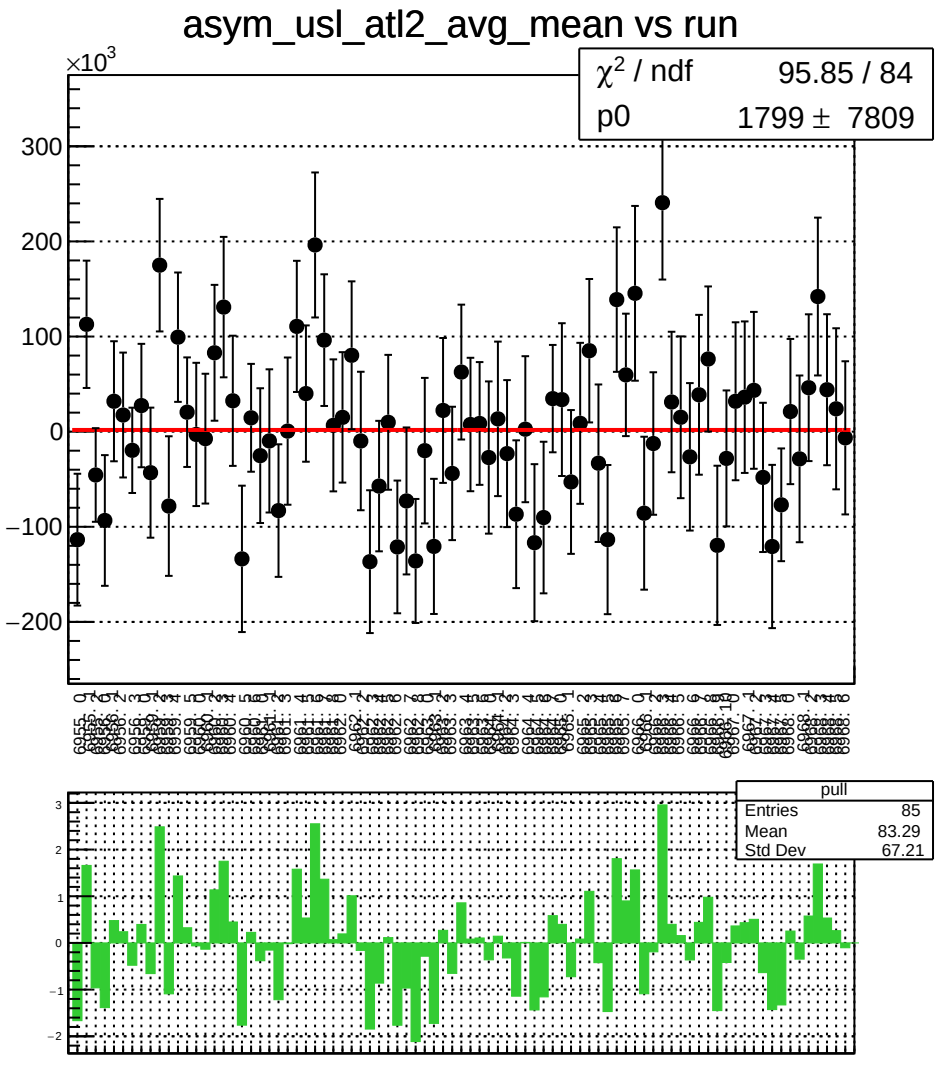

pull1D
Entries 85
Mean −0.007042
Std Dev 0.9651

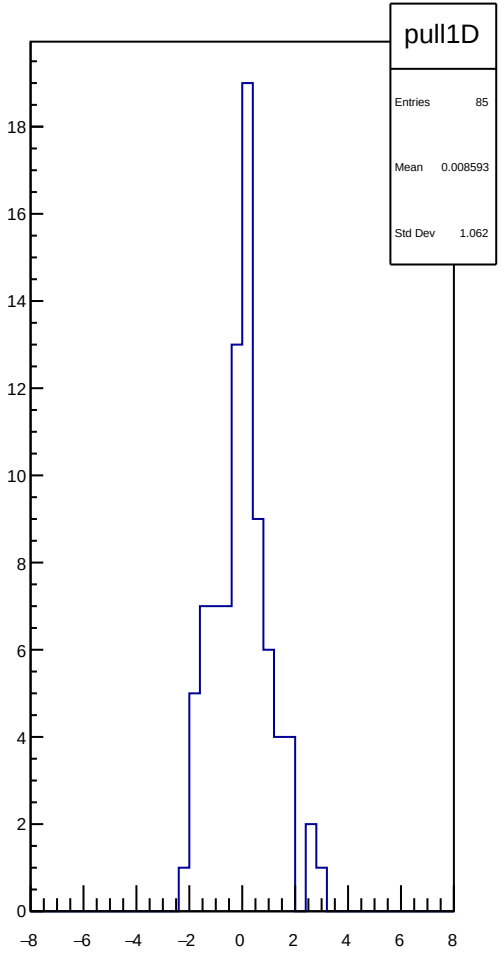

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 142.4 / 84
p0 1645 ± 1.284
1700
1680
1660
1640
1620
1600

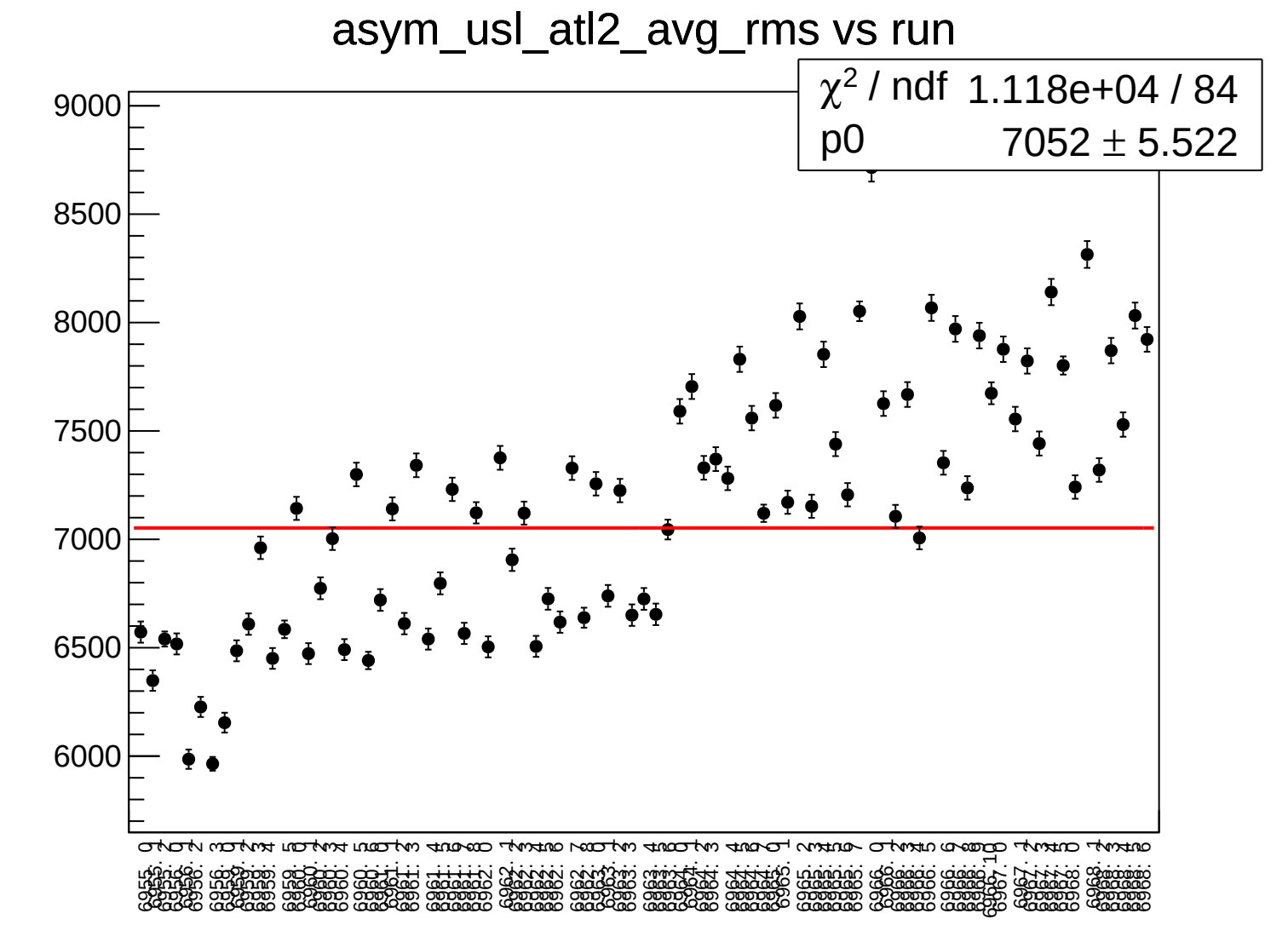

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.92 / 84
p0 −4030 ± 7995
200
100
0
−100
−200
−300
pull
Entries 85
Mean 47.66
Std Dev 68.06
2
1
0
−1
−2

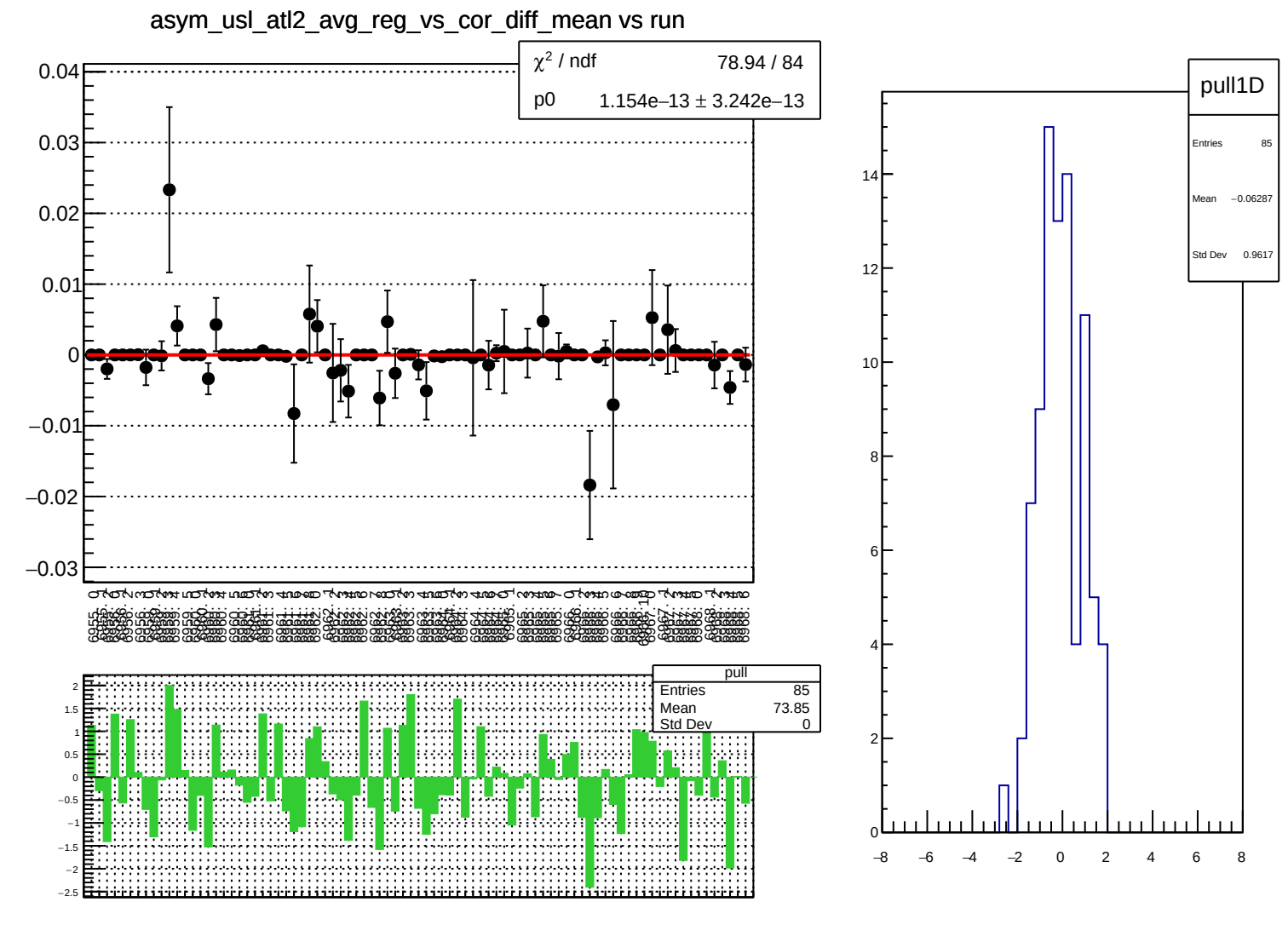

pull1D
Entries 85
Mean −0.01058
Std Dev 1.084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

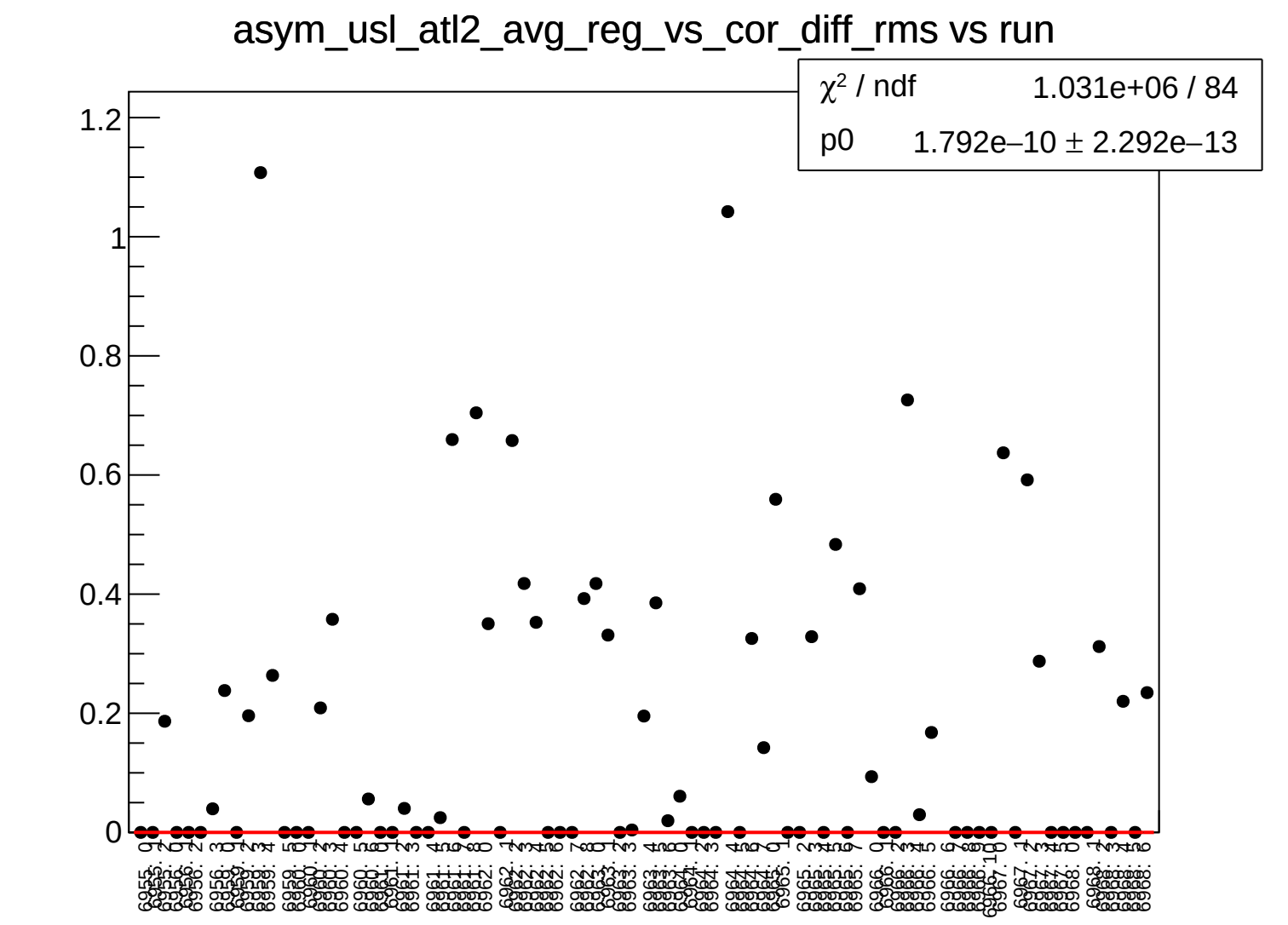

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.215e+04 / 84
p0 7219 ± 5.654
9000
8500
8000
7500
7000
6500
6000

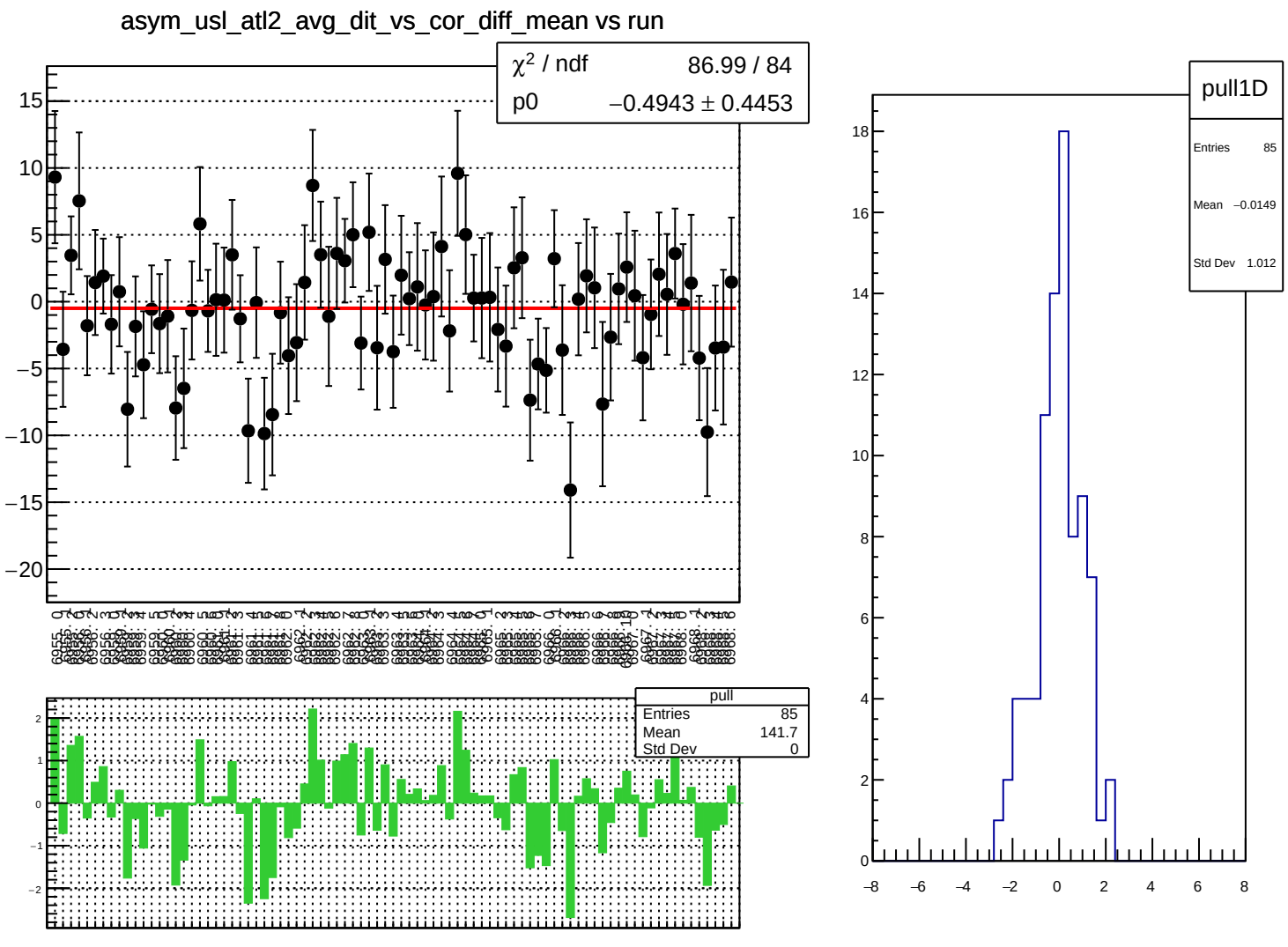

asym_usl_atl2_avg_mean vs run
χ² / ndf 95.85 / 84
p0 1799 ± 7809
×10³
300
200
100
0
−100
−200
pull
Entries 85
Mean 83.29
Std Dev 67.21
3
2
1
0
−1
−2

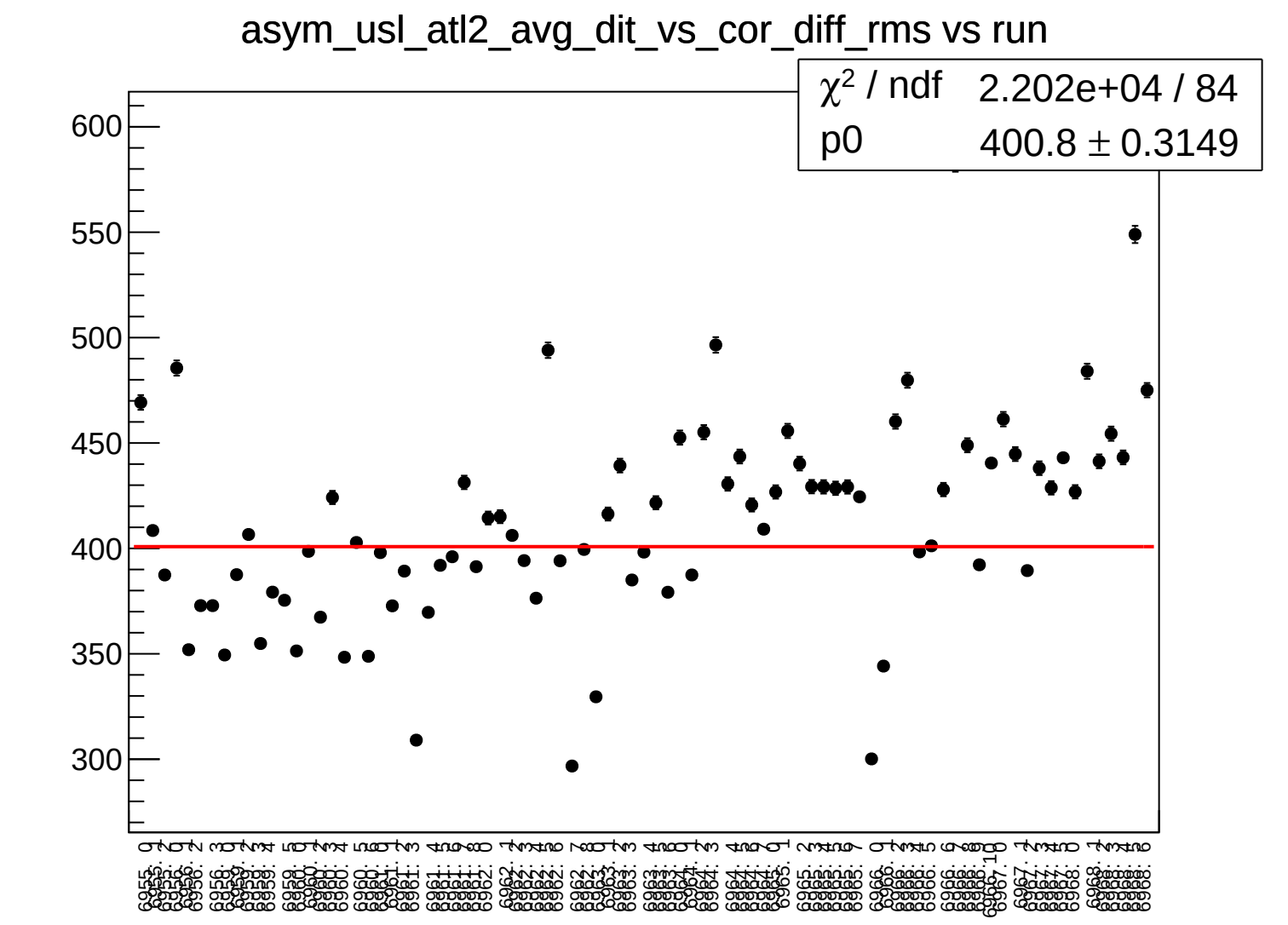

pull1D
Entries 85
Mean 0.008593
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

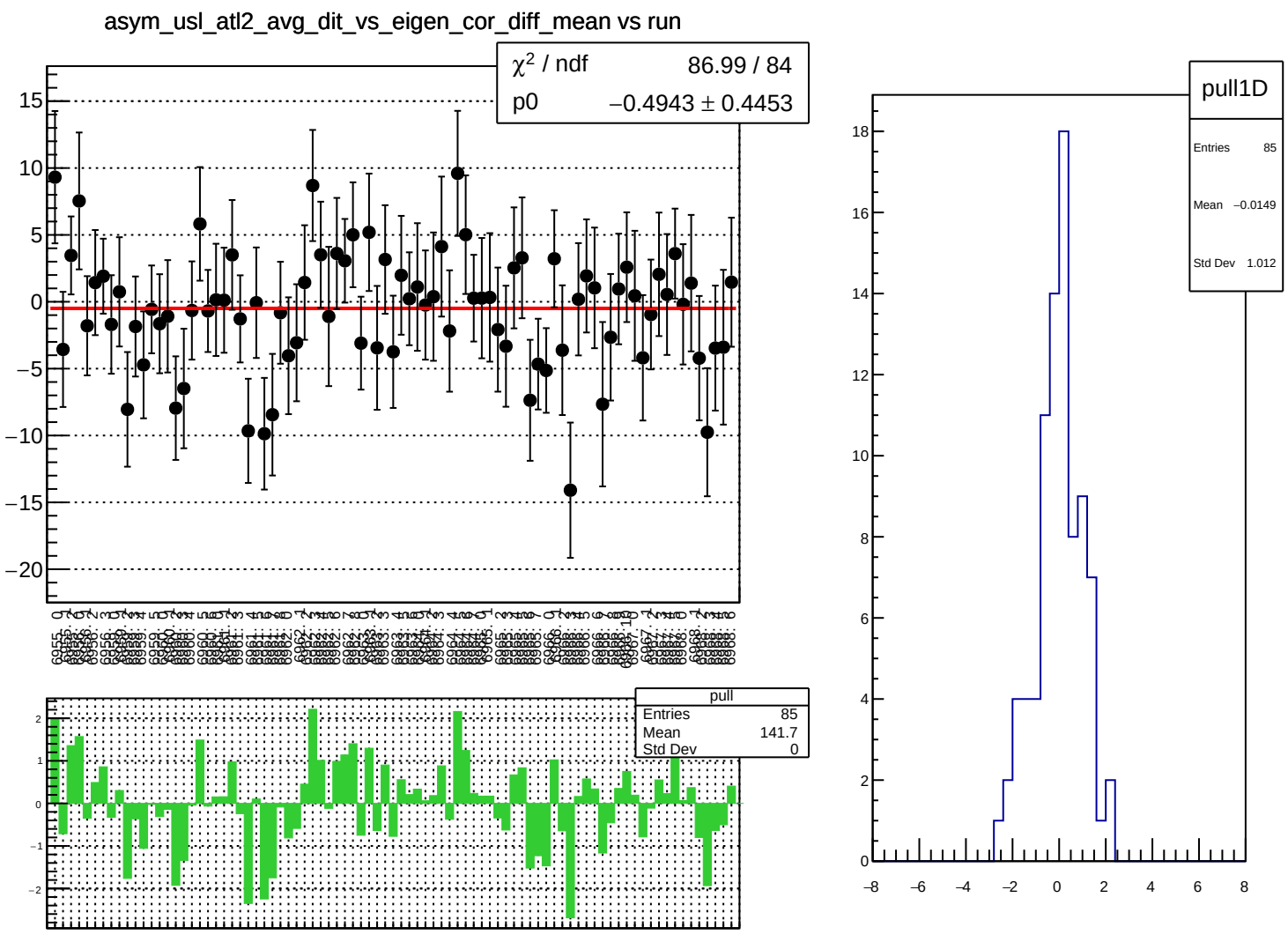

asym_usl_atl2_avg_rms vs run
$\chi^2$ / ndf 1.118e+04 / 84
p0 7052 ± 5.522
9000
8500
8000
7500
7000
6500
6000

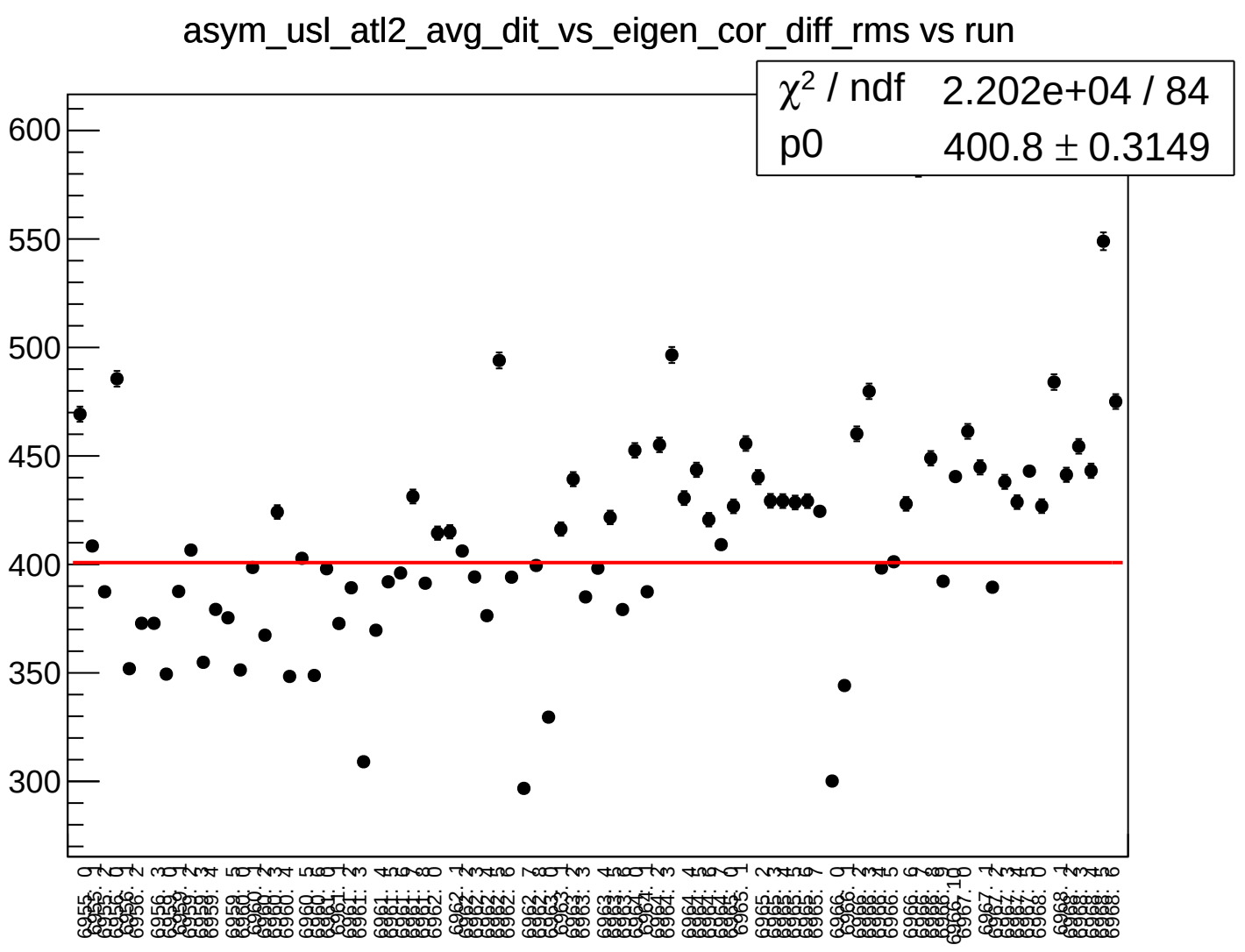

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.94 / 84
p0 1.154e−13 ± 3.242e−13
pull
Entries 85
Mean 73.85
Std Dev 0
pull1D
Entries 85
Mean −0.06287
Std Dev 0.9617

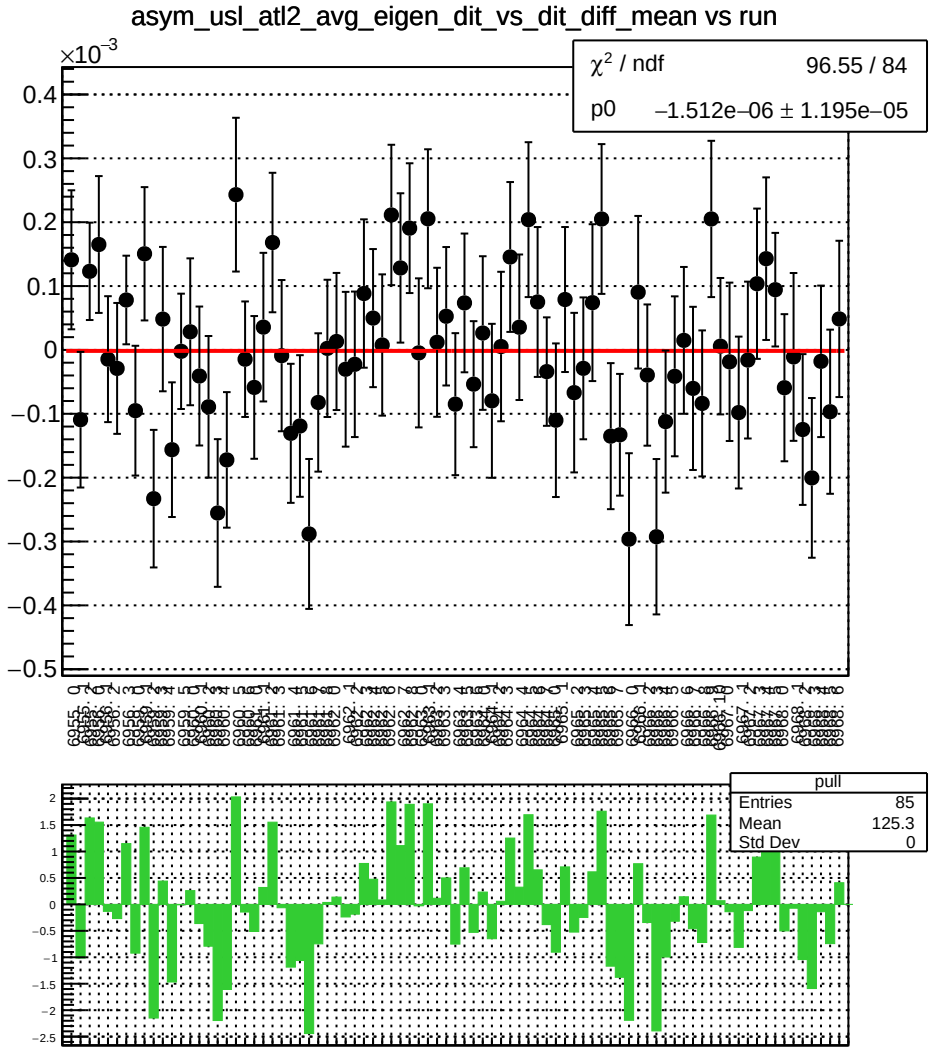

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.031e+06 / 84
p0 1.792e−10 ± 2.292e−13
1.2
1
0.8
0.6
0.4
0.2
0

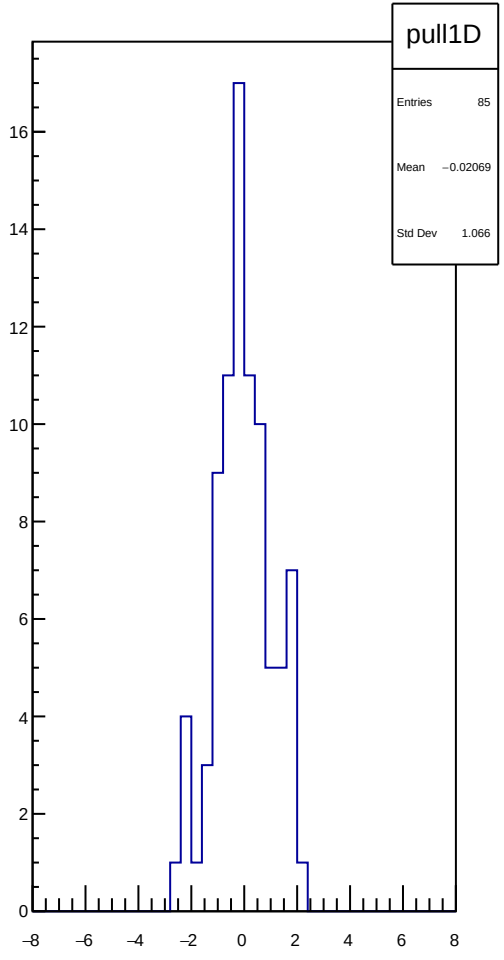

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.99 / 84
p0 −0.4943 ± 0.4453
pull
Entries 85
Mean 141.7
Std Dev 0
pull1D
Entries 85
Mean −0.0149
Std Dev 1.012

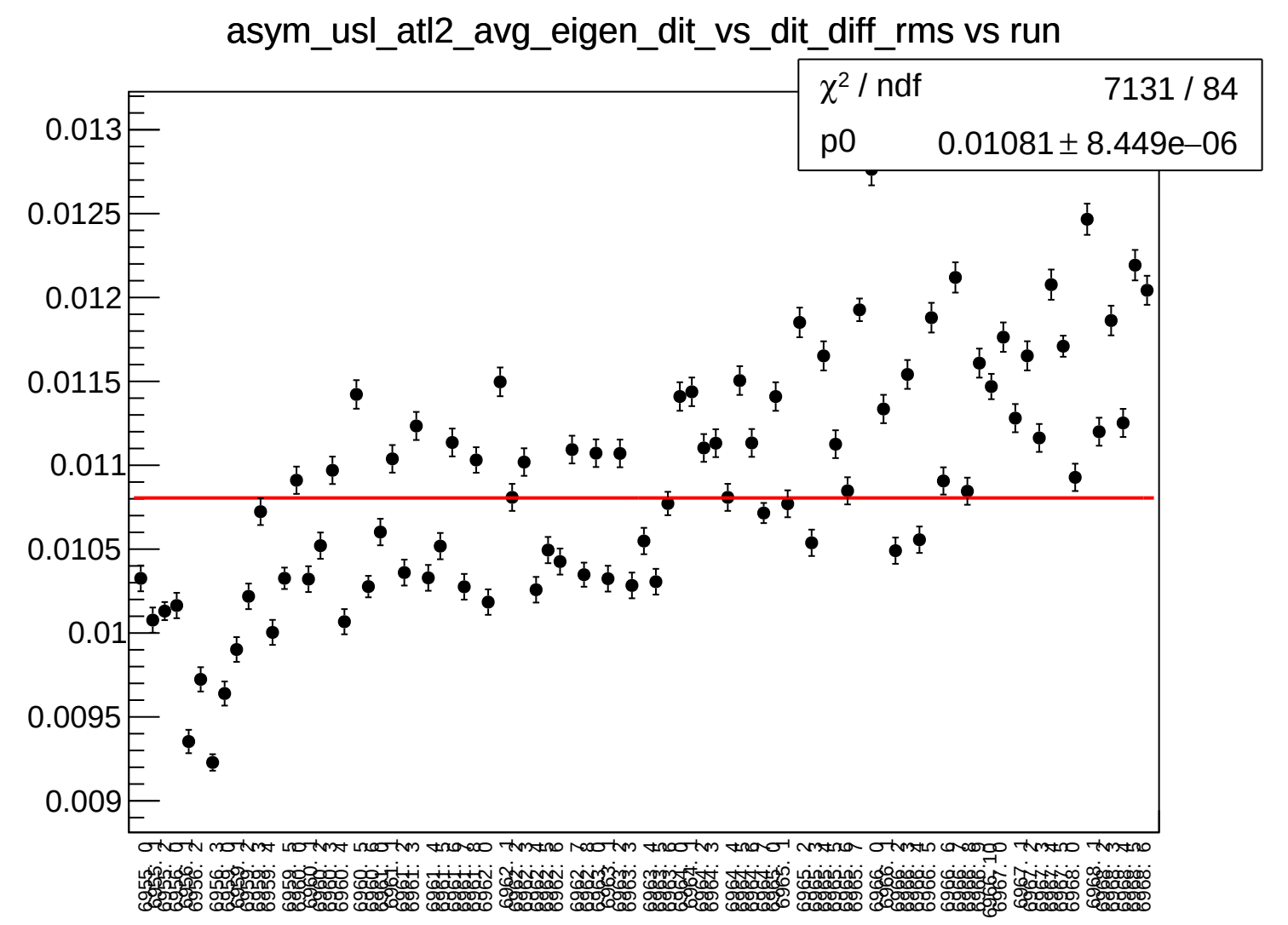

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.202e+04 / 84
p0 400.8 ± 0.3149
600
550
500
450
400
350
300

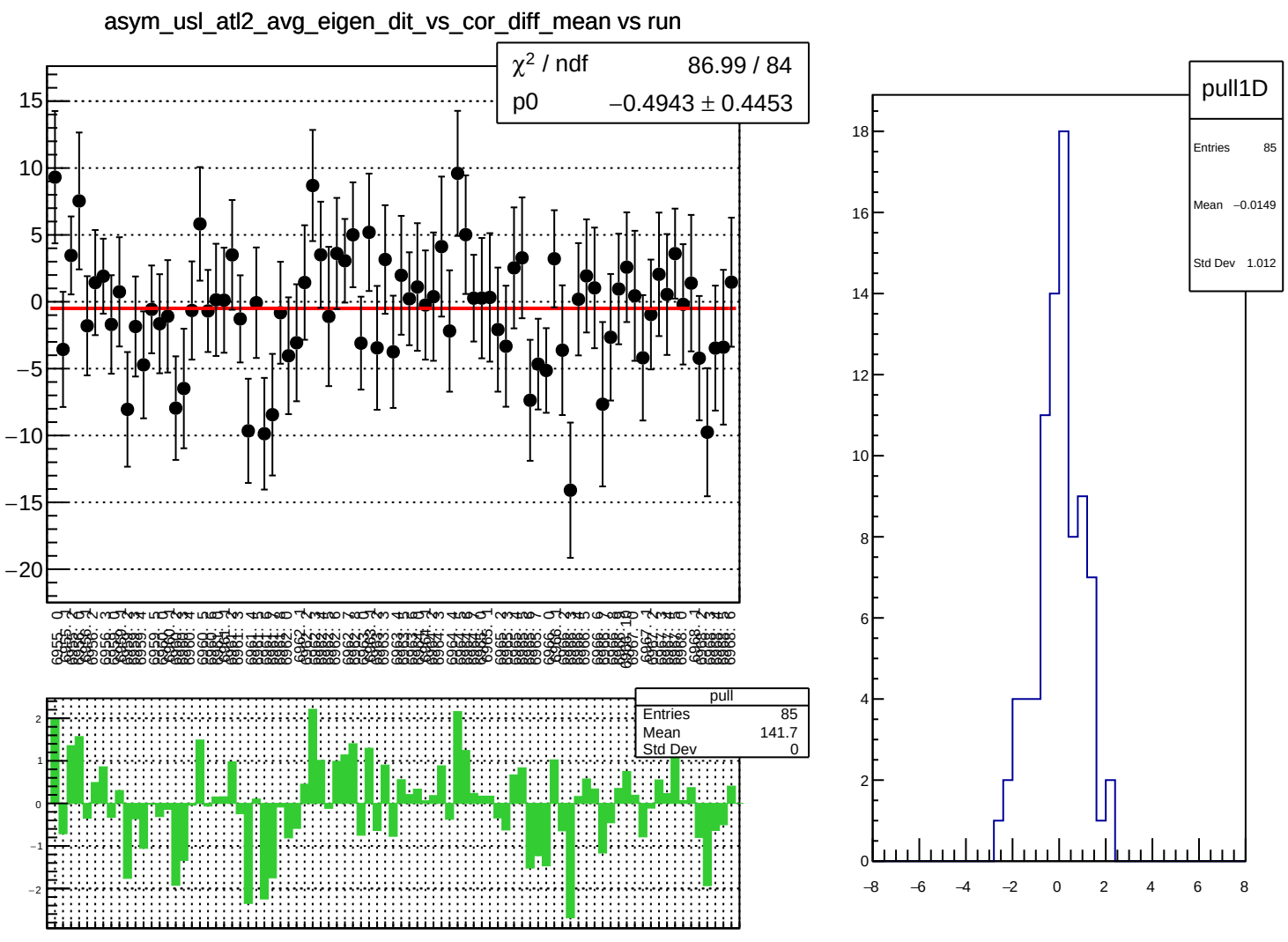

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.99 / 84
p0 −0.4943 ± 0.4453
pull
Entries 85
Mean 141.7
Std Dev 0
pull1D
Entries 85
Mean −0.0149
Std Dev 1.012

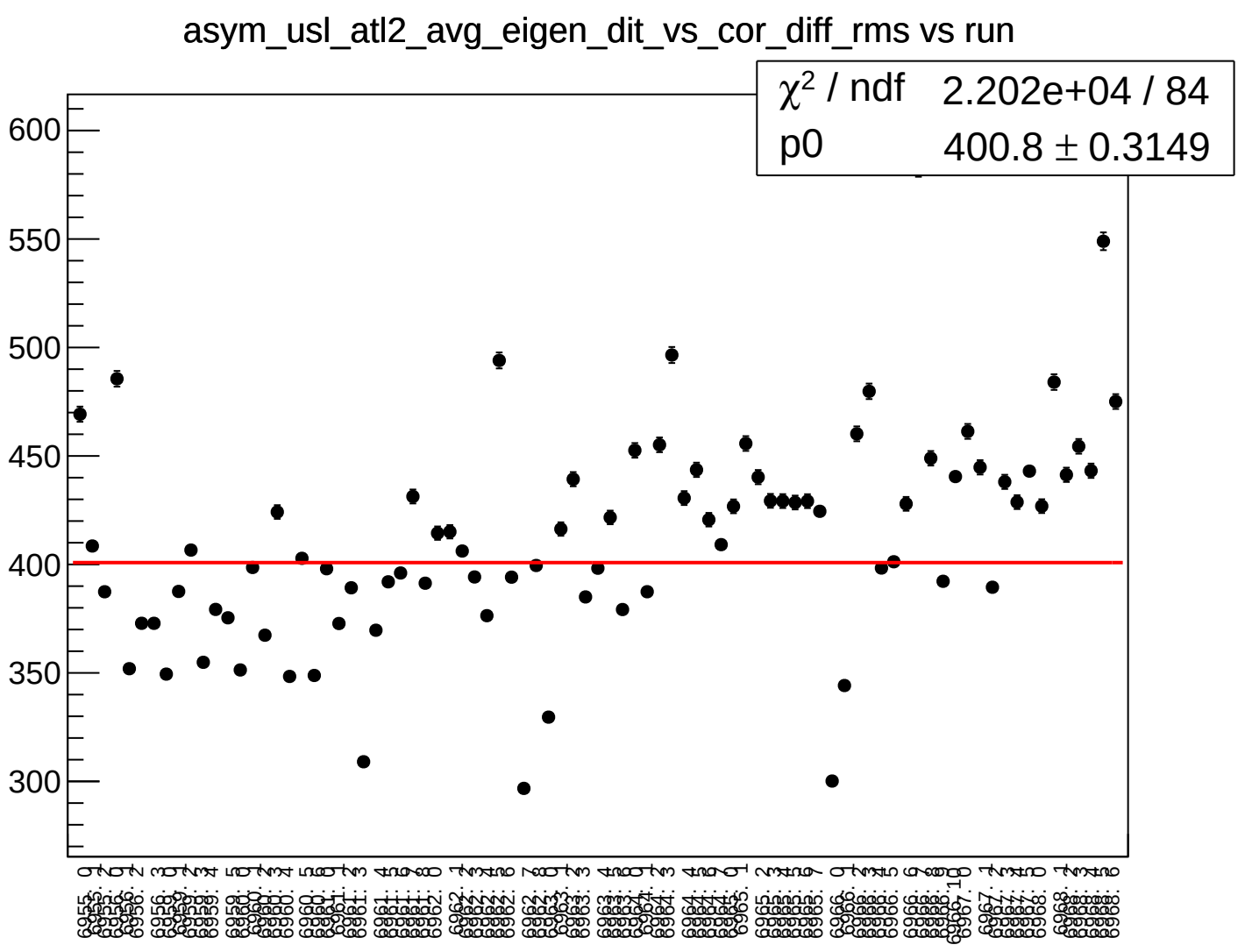

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.202e+04 / 84
p0 400.8 ± 0.3149
600
550
500
450
400
350
300

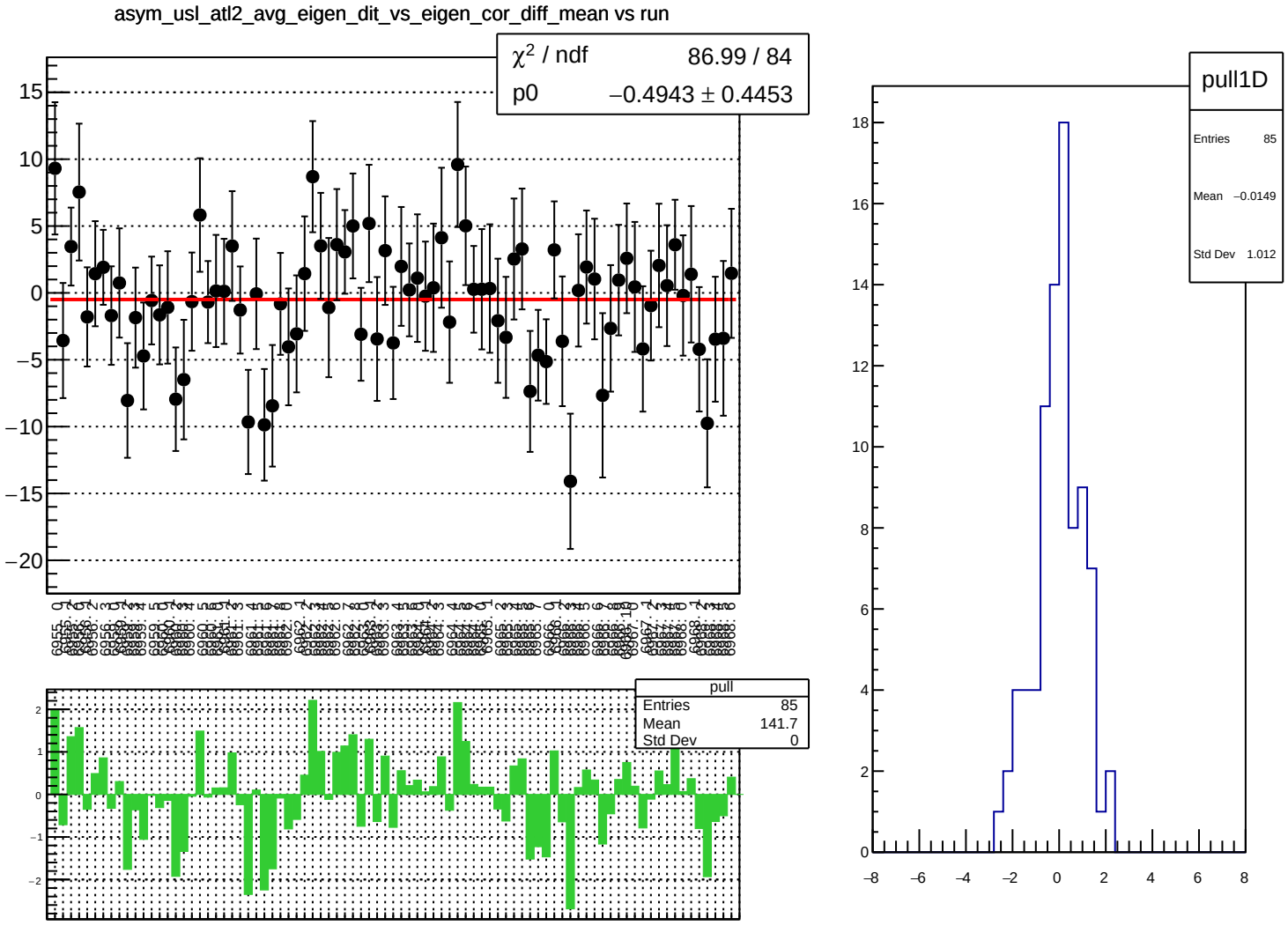

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.55 / 84
p0 −1.512e−06 ± 1.195e−05
pull
Entries 85
Mean 125.3
Std Dev 0

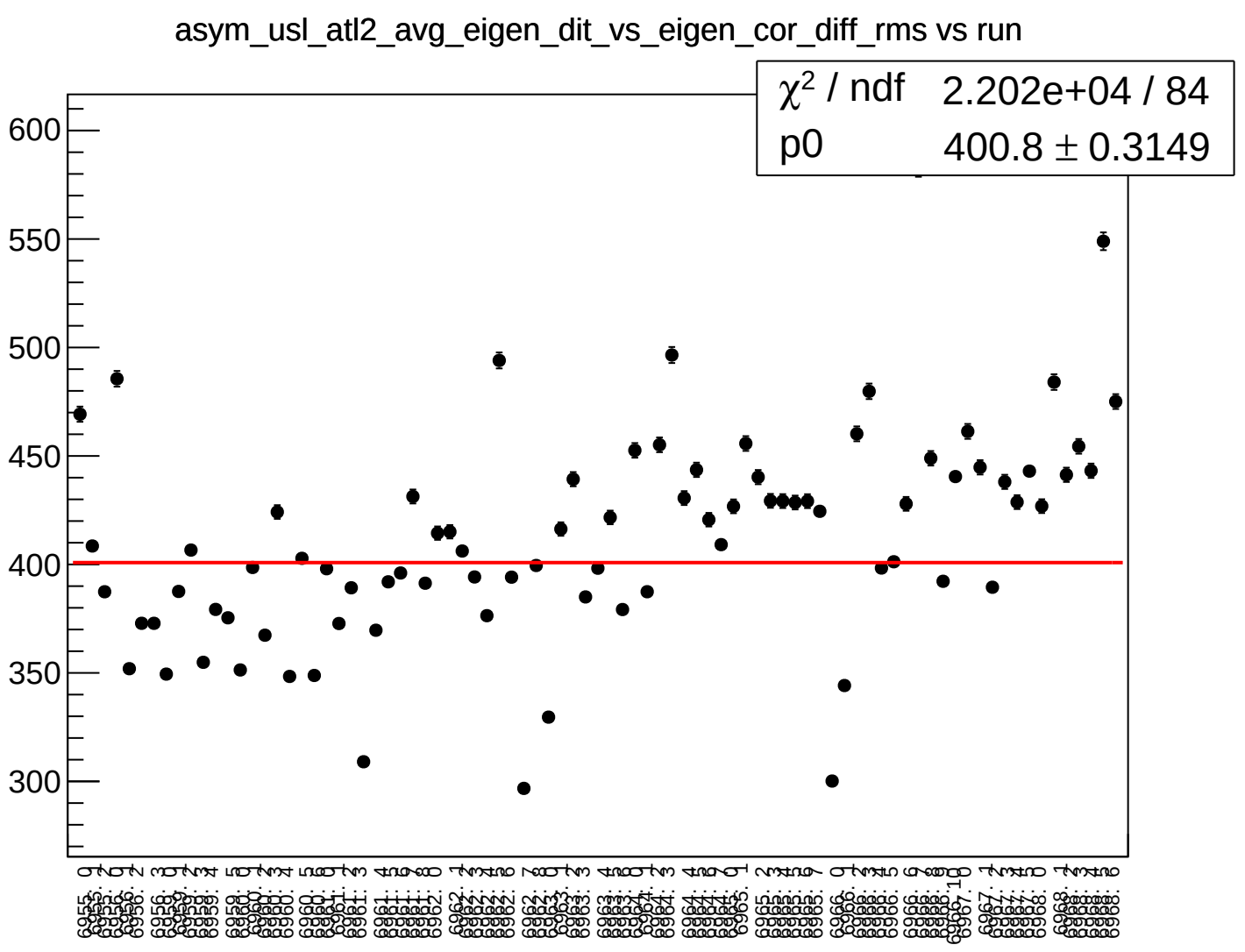

pull1D
Entries 85
Mean −0.02069
Std Dev 1.066

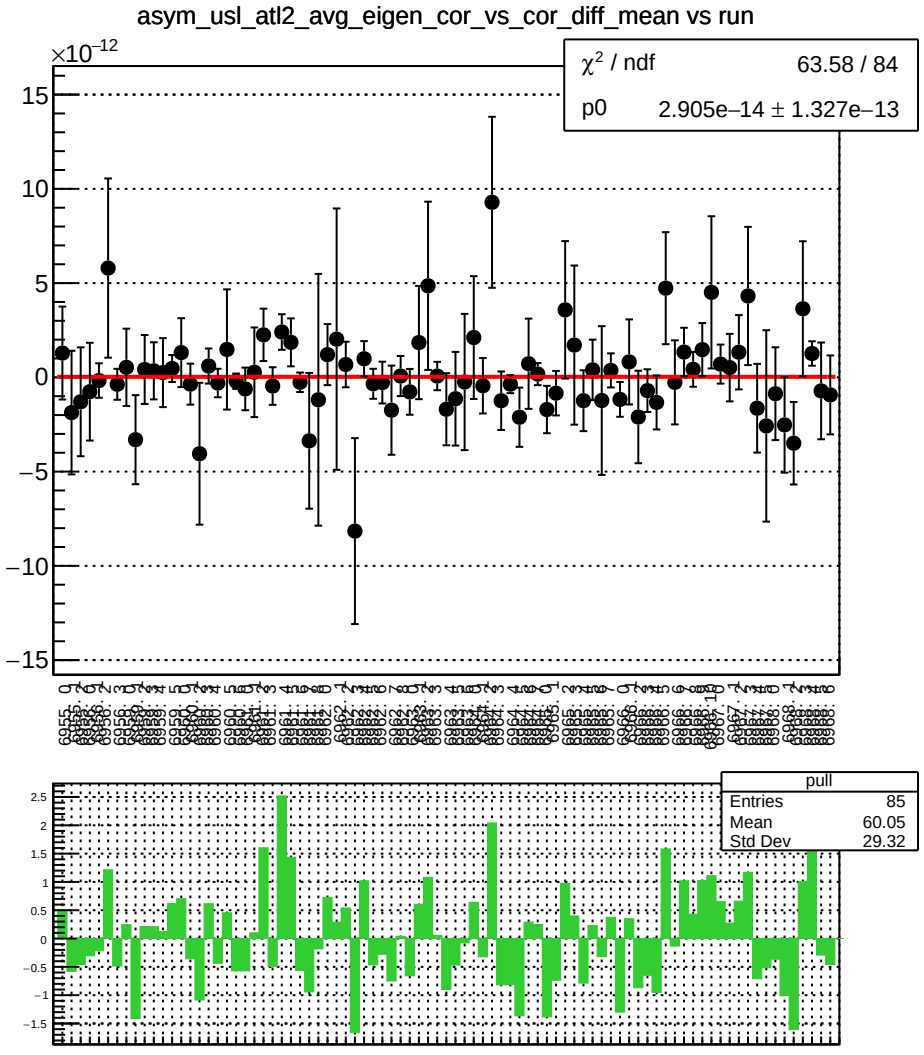

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7131 / 84
p0 0.01081 ± 8.449e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

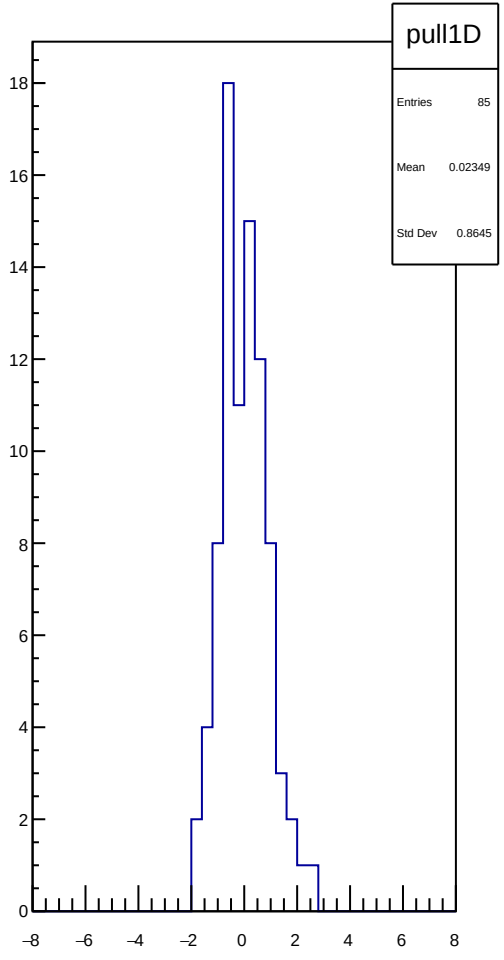

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.99 / 84
p0 −0.4943 ± 0.4453
pull
Entries 85
Mean 141.7
Std Dev 0
pull1D
Entries 85
Mean −0.0149
Std Dev 1.012

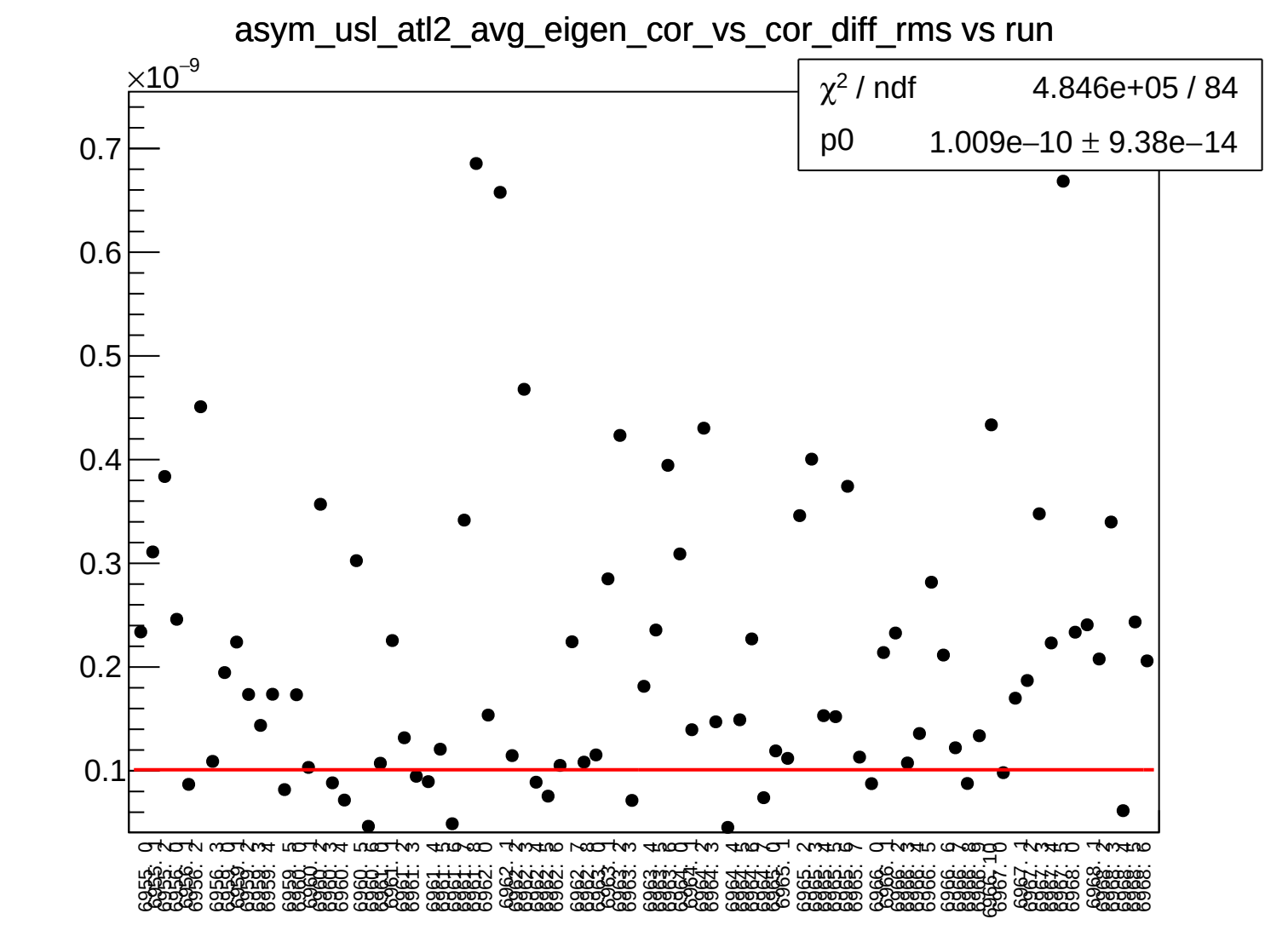

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.202e+04 / 84
p0 400.8 ± 0.3149
600
550
500
450
400
350
300

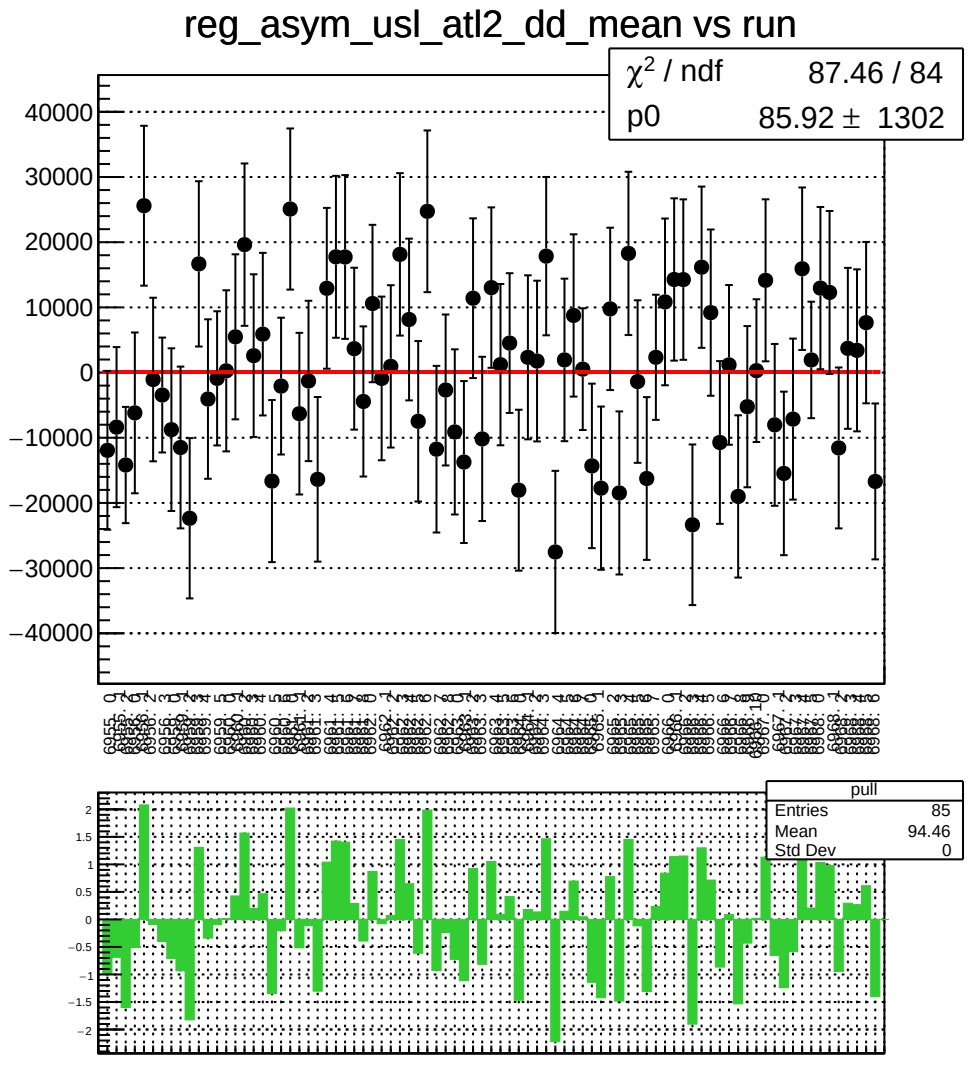

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.99 / 84
p0 −0.4943 ± 0.4453
pull
Entries 85
Mean 141.7
Std Dev 0
pull1D
Entries 85
Mean −0.0149
Std Dev 1.012

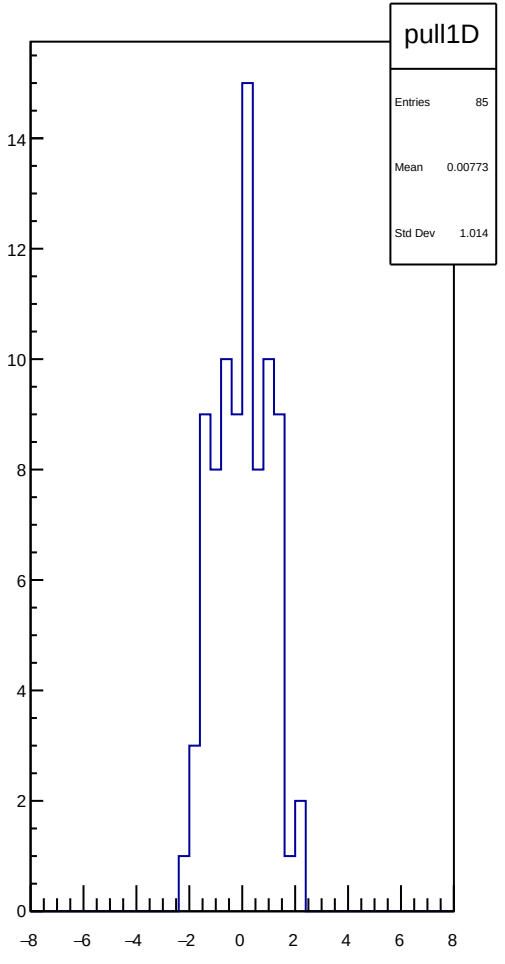

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.202e+04 / 84
p0 400.8 ± 0.3149
600
550
500
450
400
350
300

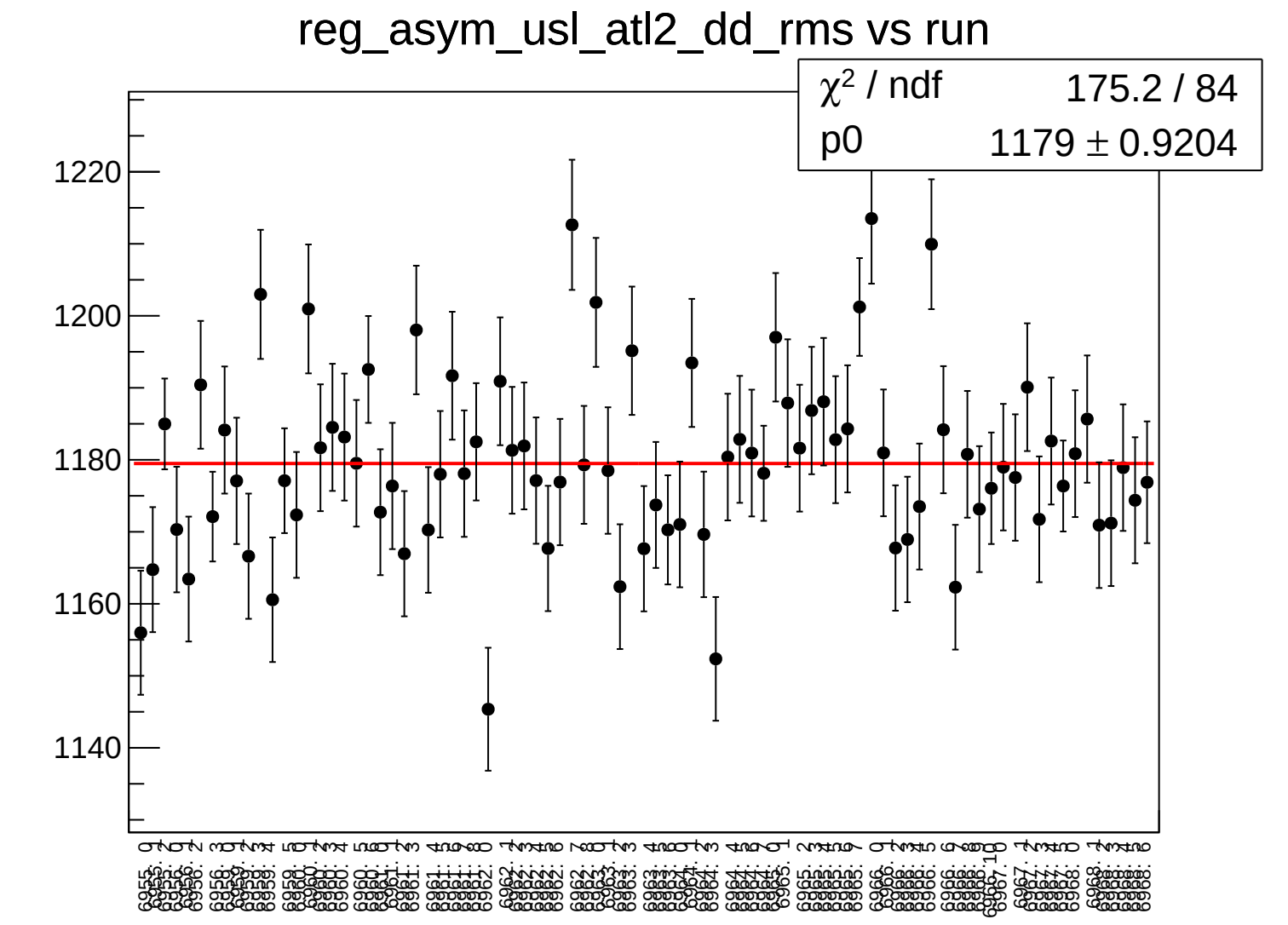

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.58 / 84
p0 2.905e−14 ± 1.327e−13
pull
Entries 85
Mean 60.05
Std Dev 29.32

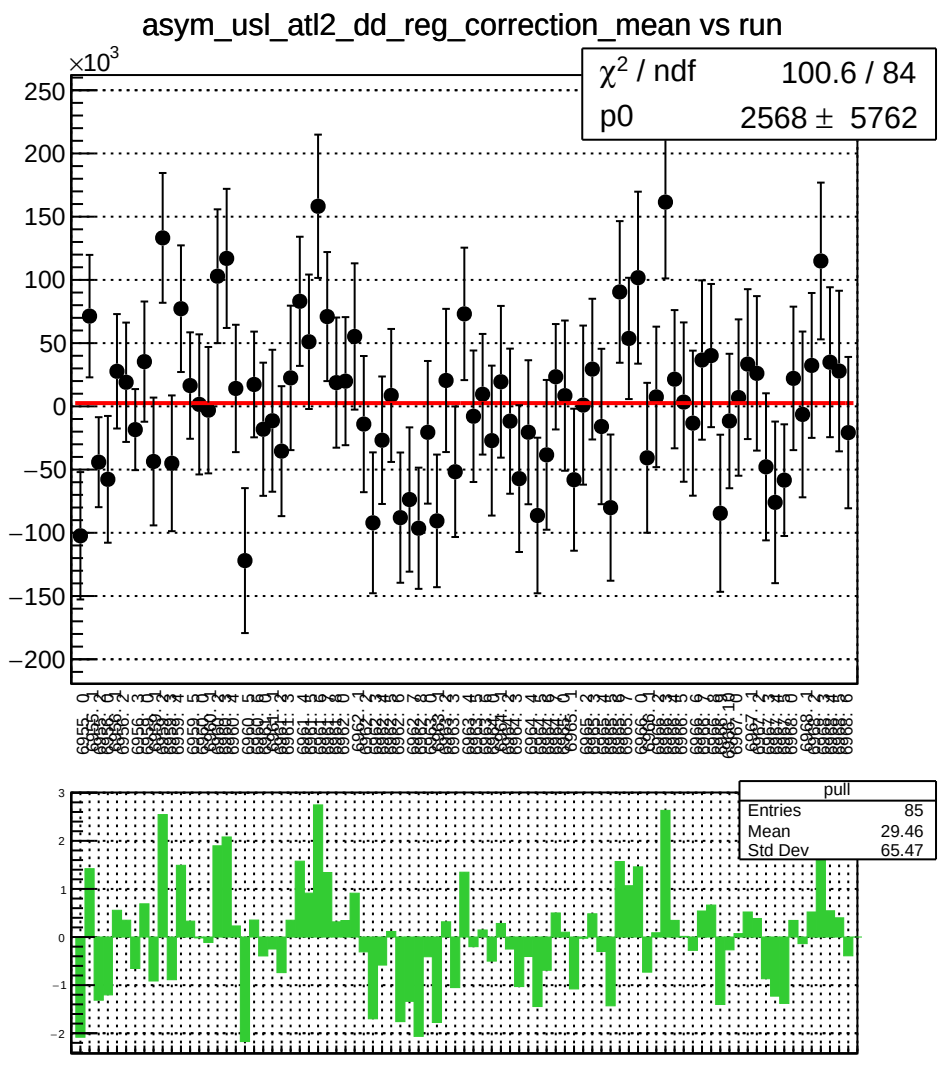

pull1D
Entries 85
Mean 0.02349
Std Dev 0.8645

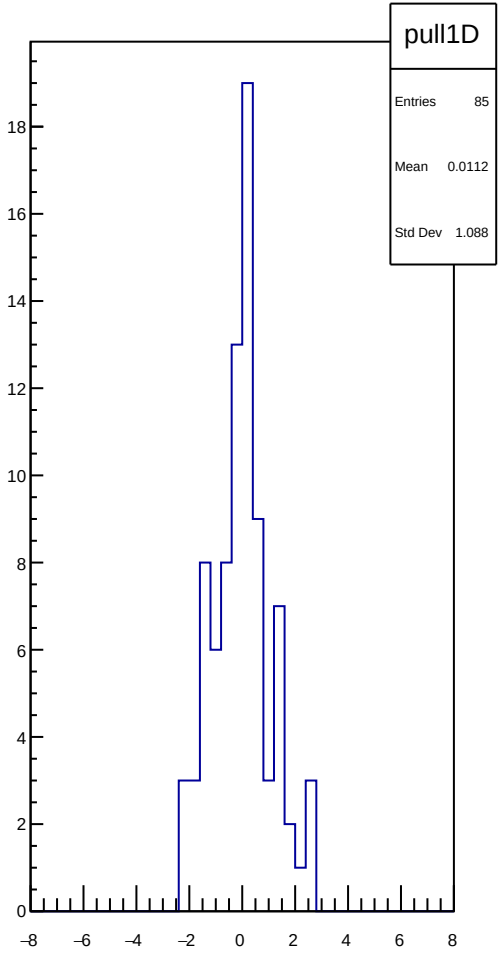

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.846e+05 / 84
p0 1.009e−10 ± 9.38e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

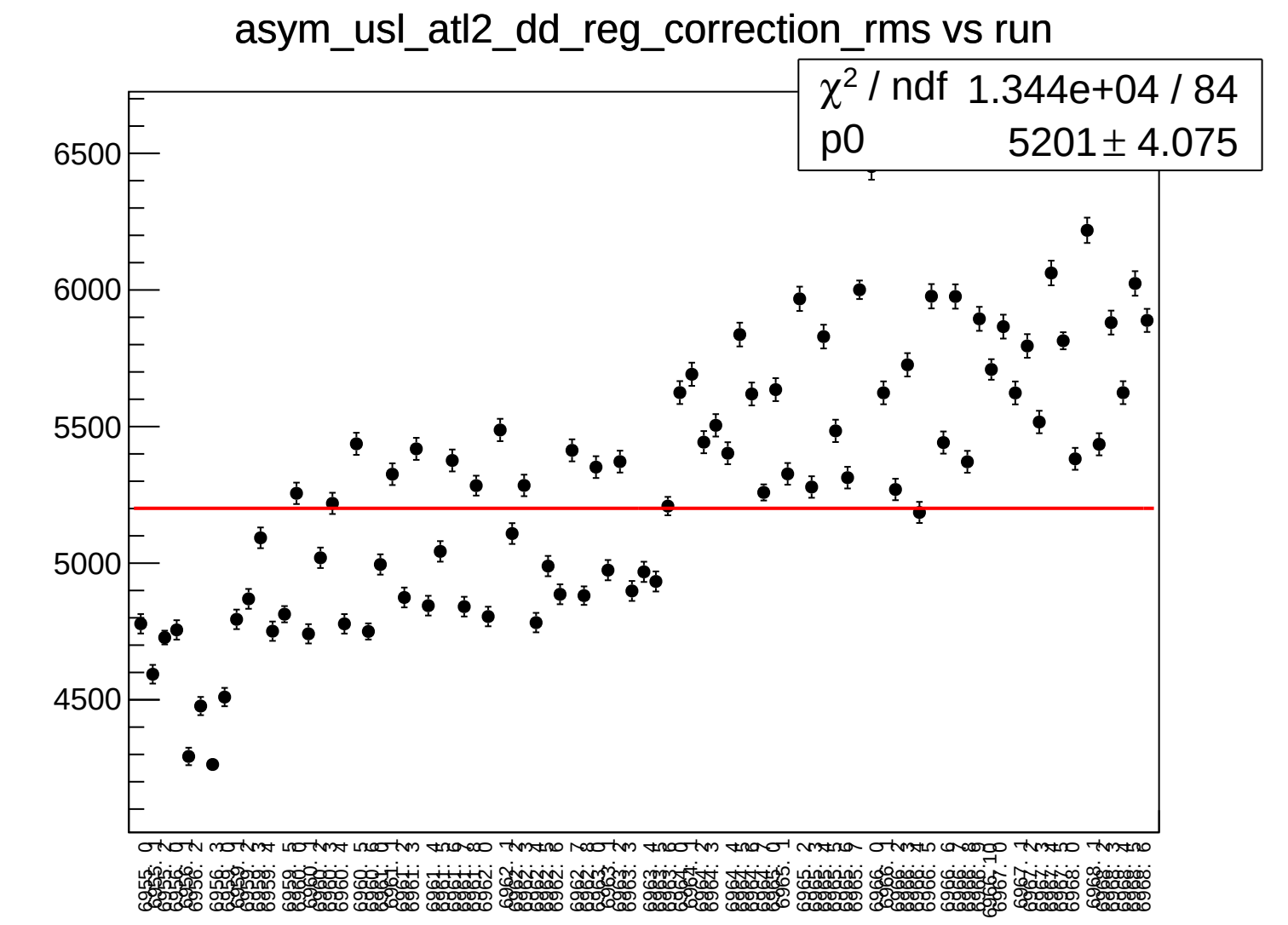

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 87.46 / 84
p0 85.92 ± 1302
pull
Entries 85
Mean 94.46
Std Dev 0

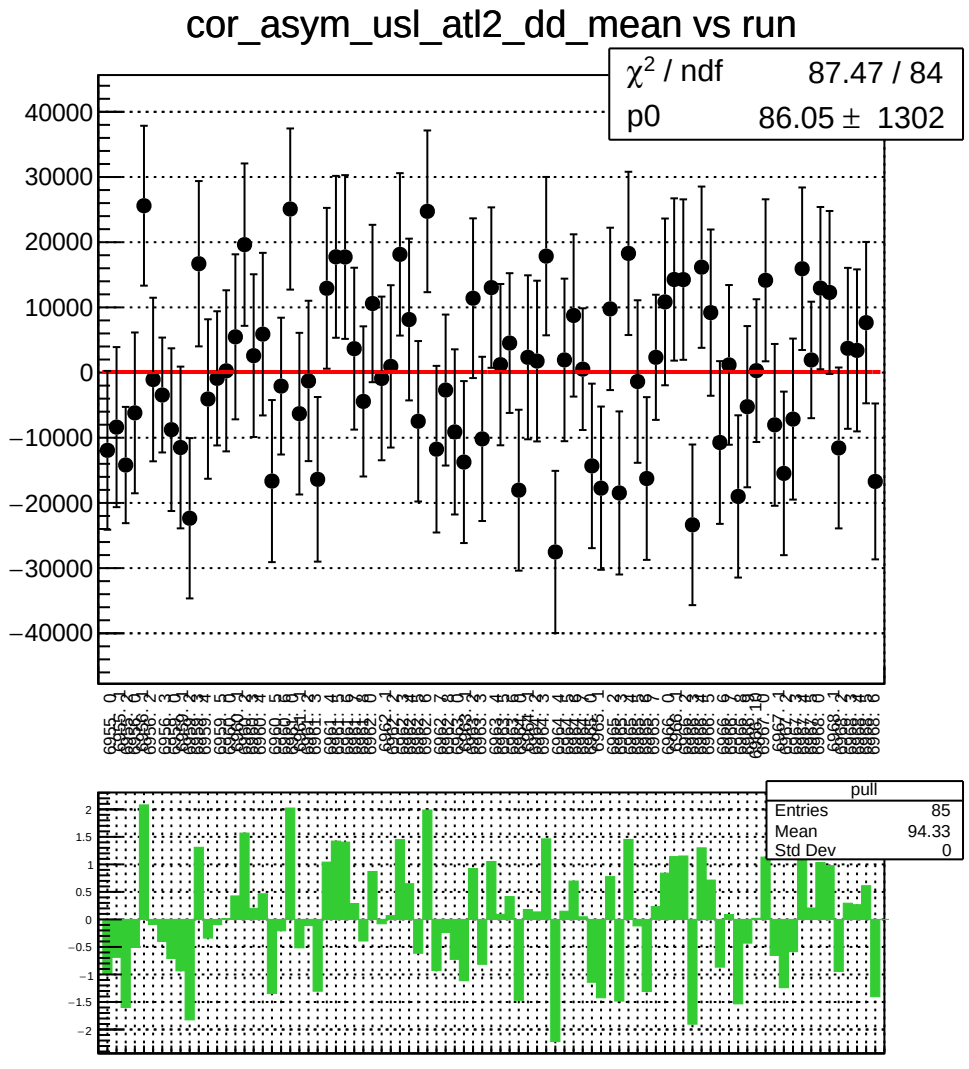

pull1D
Entries 85
Mean 0.00773
Std Dev 1.014

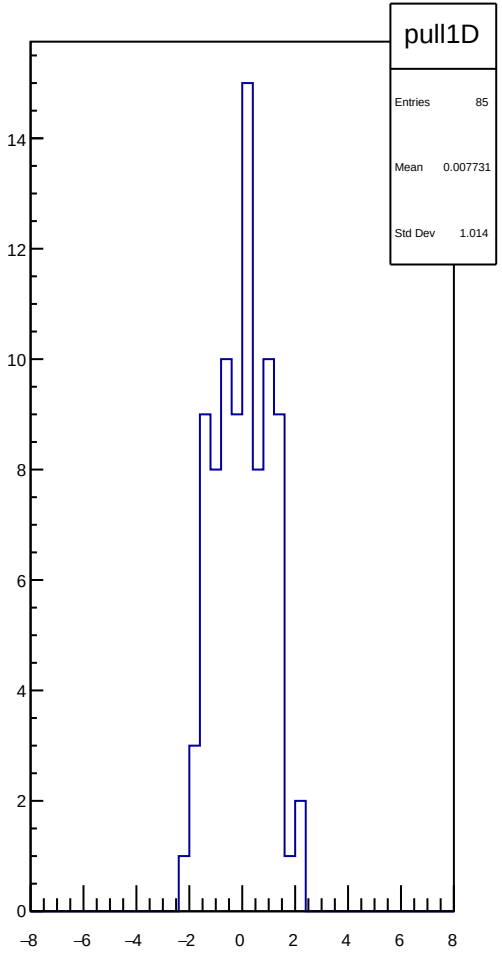

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 175.2 / 84
p0 1179 ± 0.9204
1220
1200
1180
1160
1140

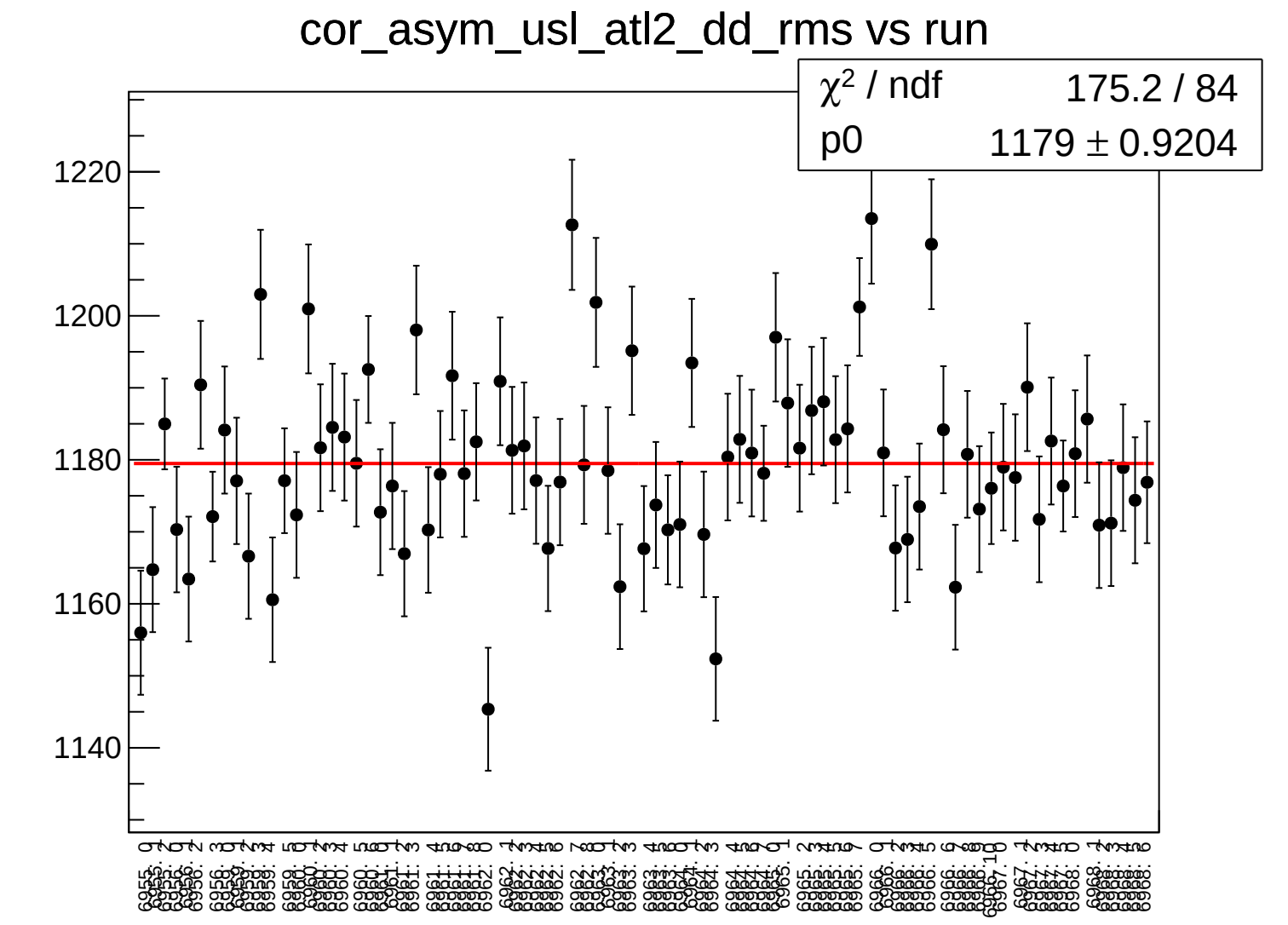

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 100.6 / 84
p0 2568 ± 5762
pull
Entries 85
Mean 29.46
Std Dev 65.47

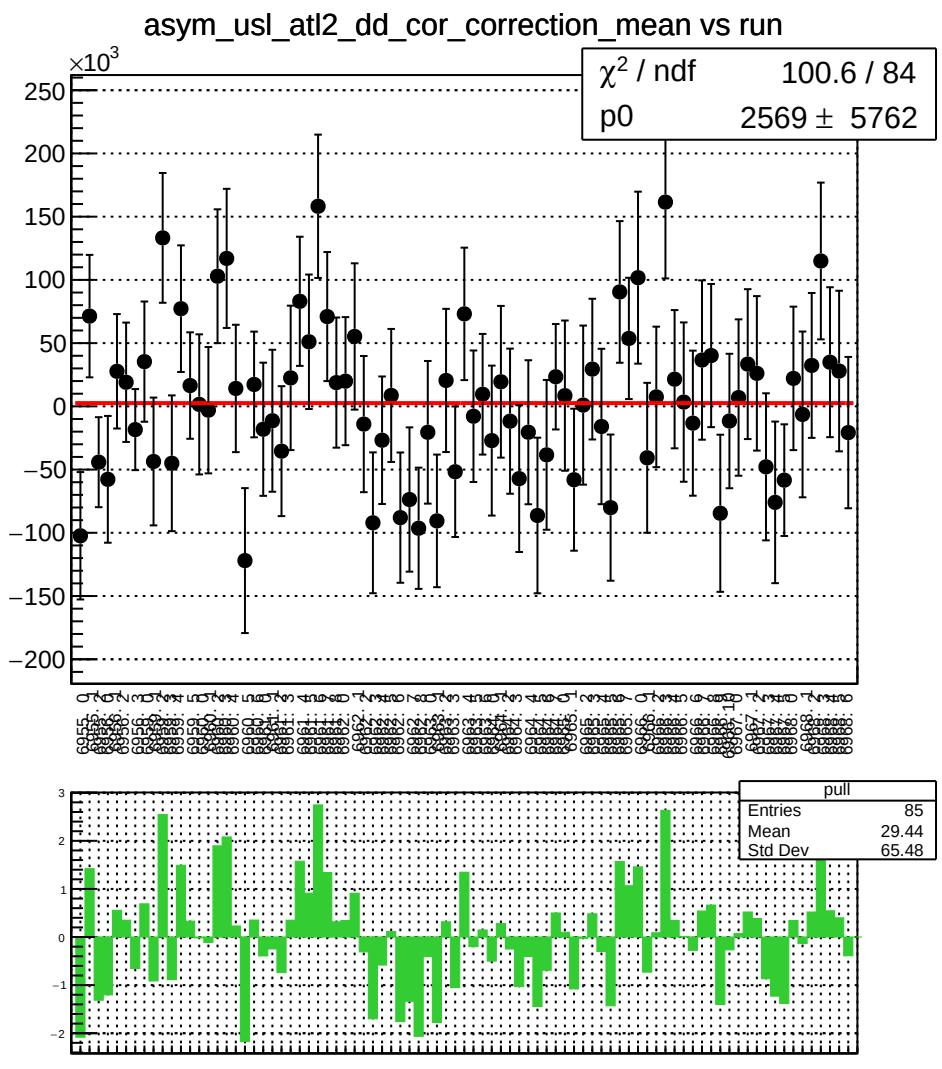

pull1D
Entries 85
Mean 0.0112
Std Dev 1.088

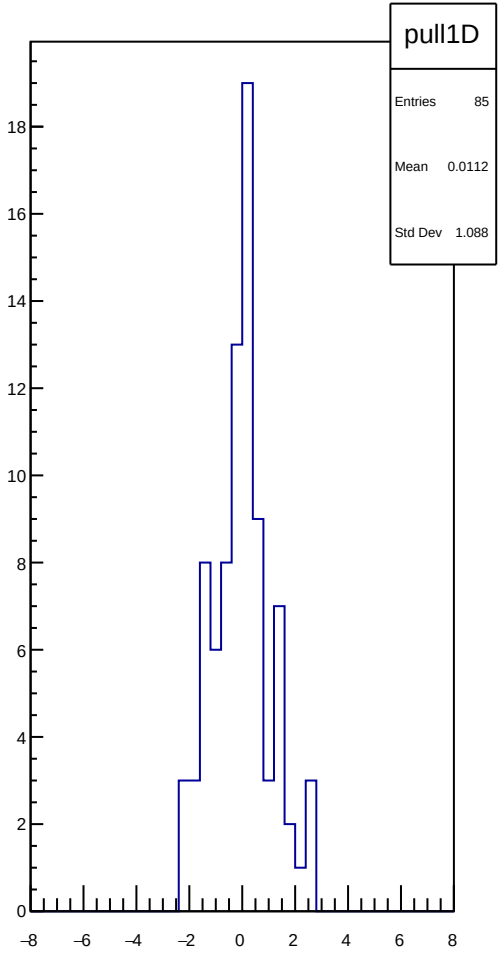

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.344e+04 / 84
p0 5201 ± 4.075
6500
6000
5500
5000
4500

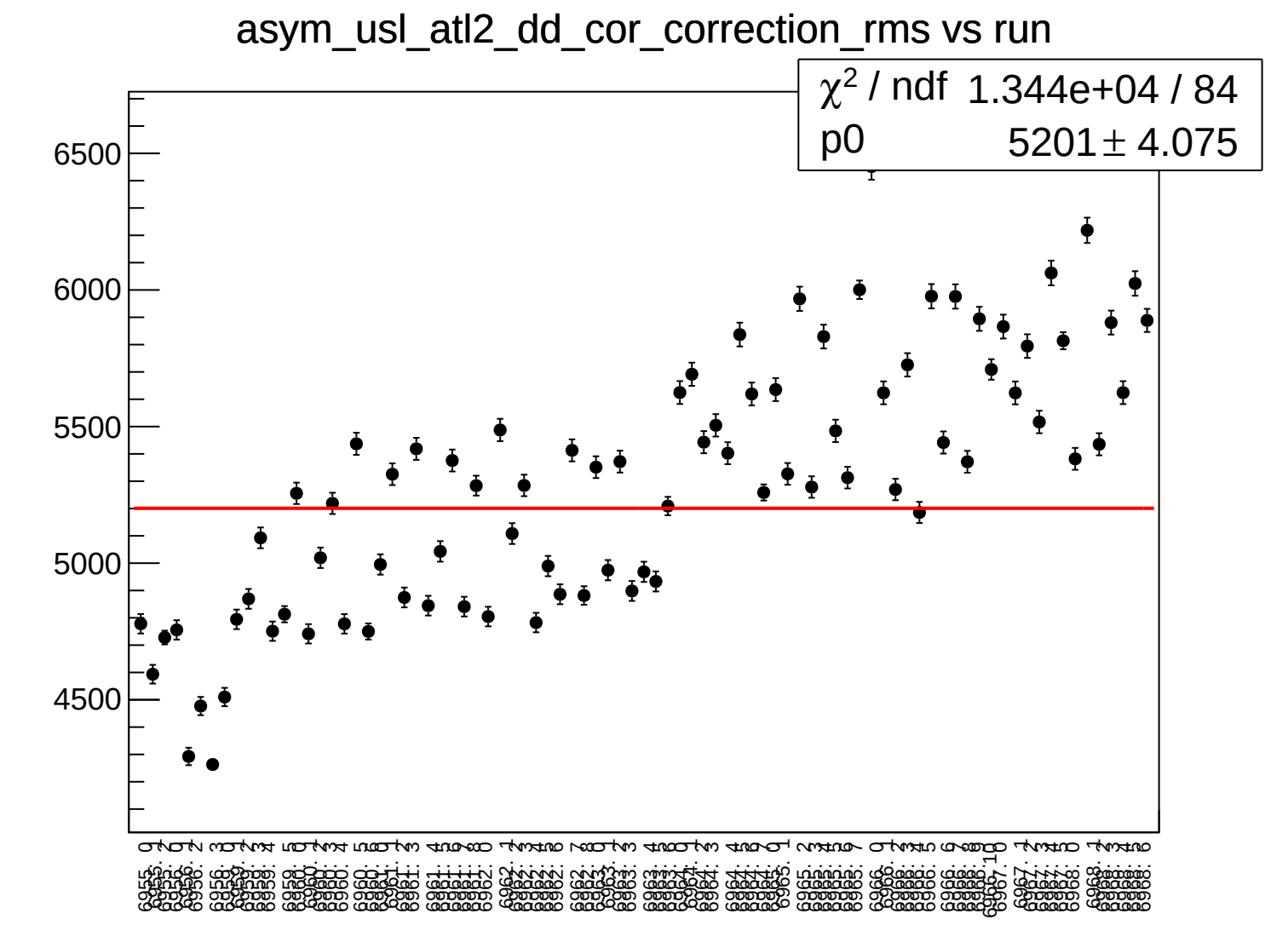

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 87.47 / 84
p0 86.05 ± 1302
pull
Entries 85
Mean 94.33
Std Dev 0

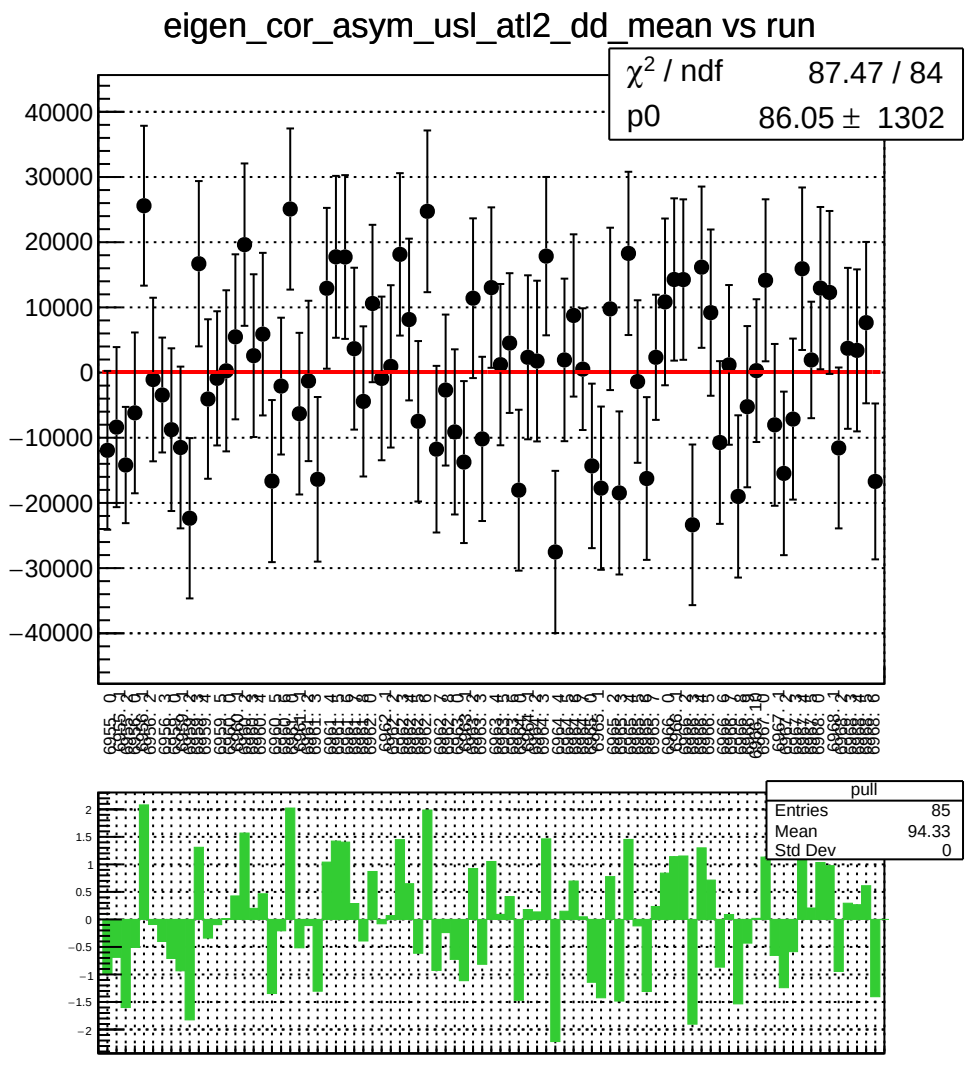

pull1D
Entries 85
Mean 0.007731
Std Dev 1.014

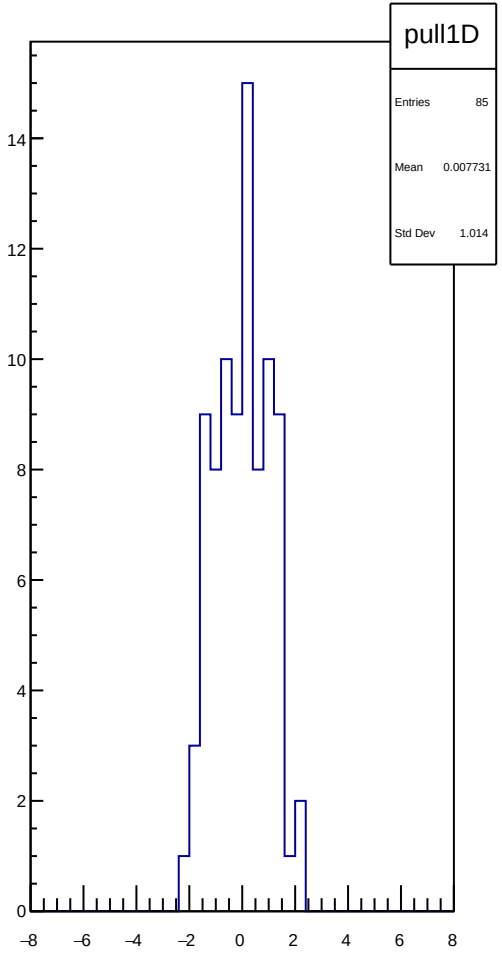

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 175.2 / 84
p0 1179 ± 0.9204
1220
1200
1180
1160
1140

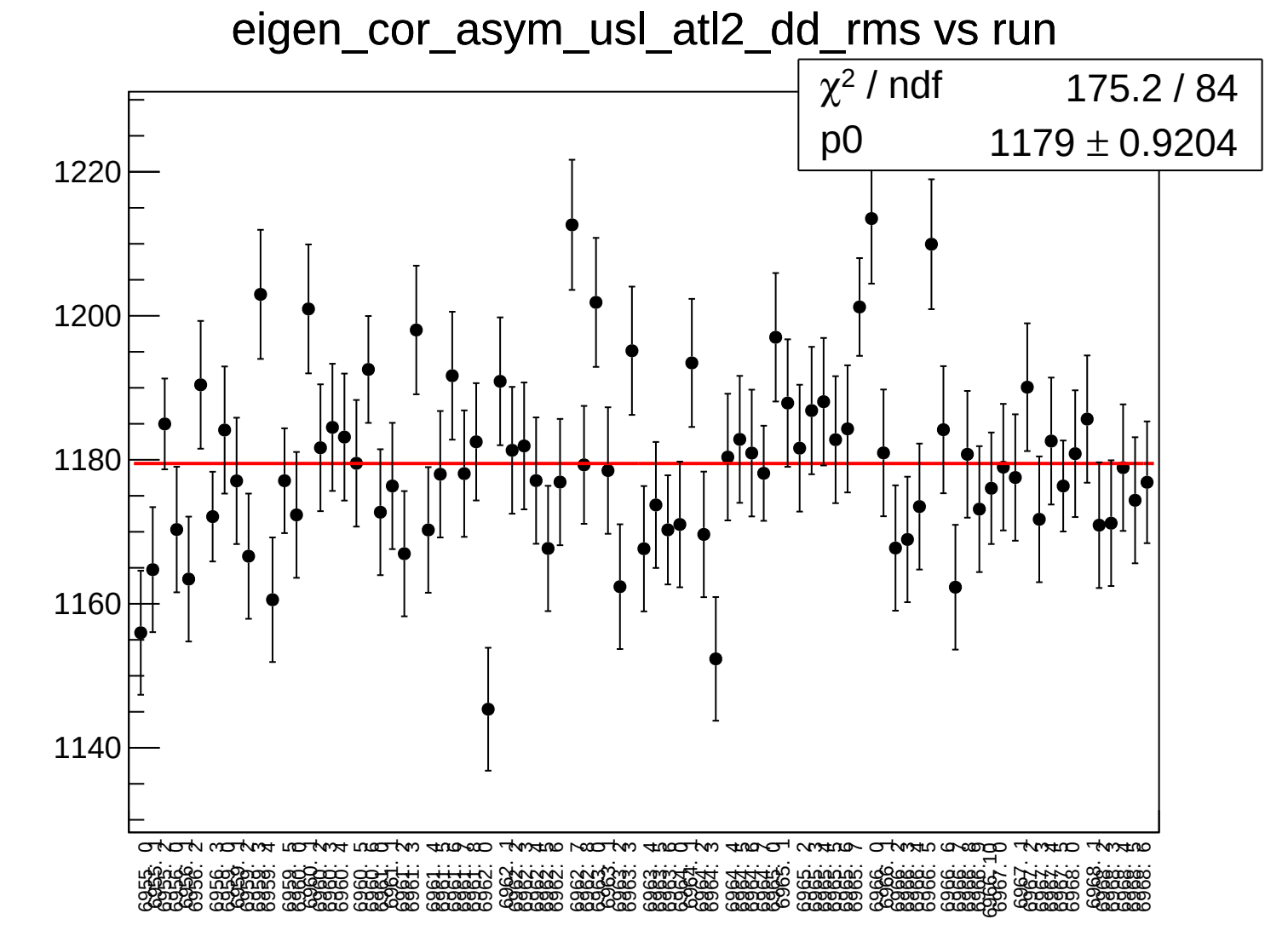

asym_usl_atl2_dd_cor_correction_mean vs run
χ² / ndf 100.6 / 84
p0 2569 ± 5762
pull
Entries 85
Mean 29.44
Std Dev 65.48

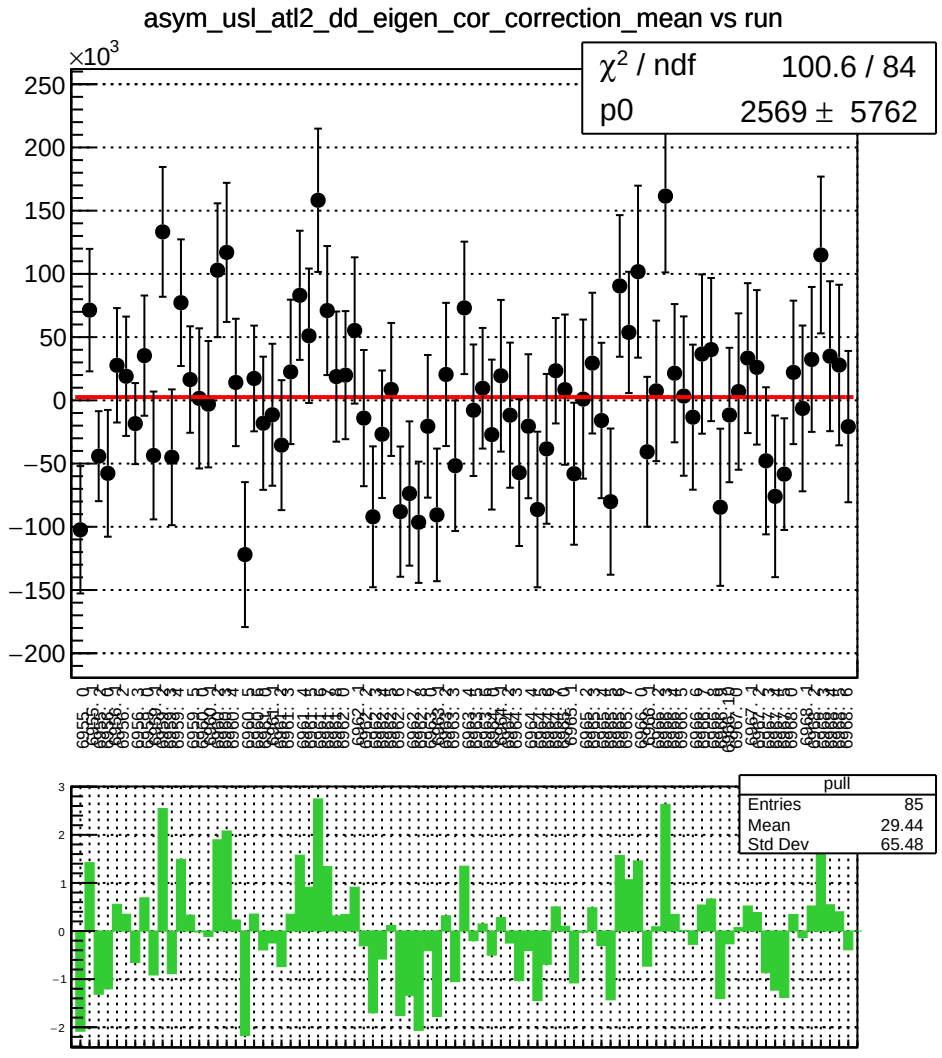

pull1D
Entries 85
Mean 0.0112
Std Dev 1.088

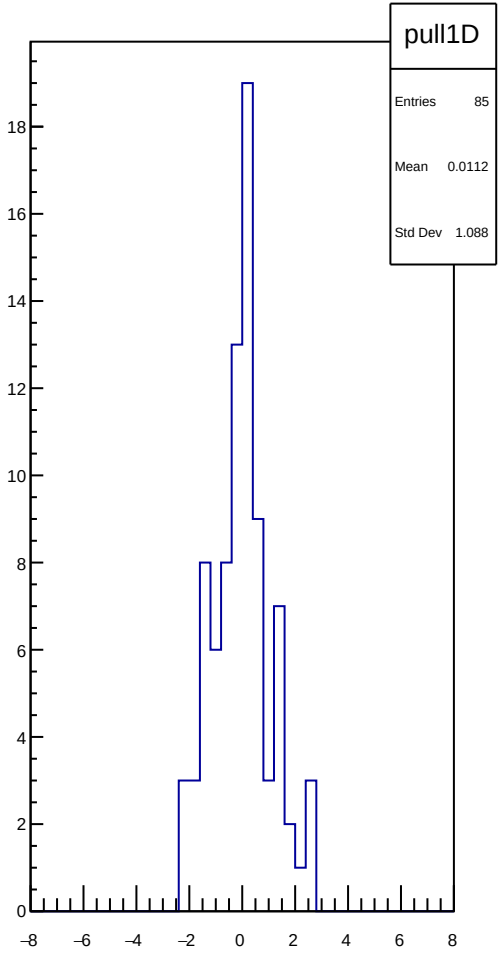

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.344e+04 / 84
p0 5201 ± 4.075
6500
6000
5500
5000
4500

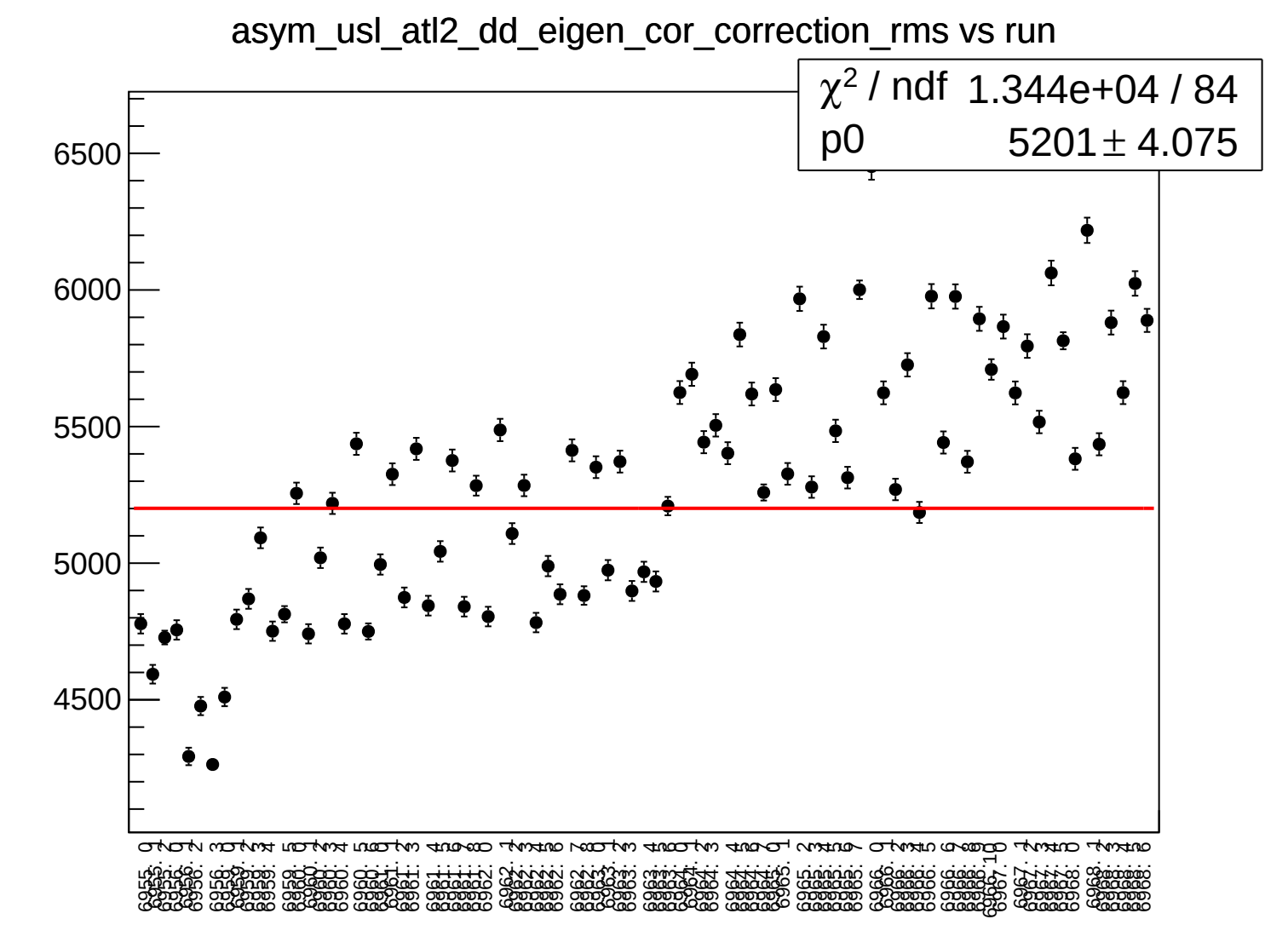

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 87.47 / 84
p0 86.05 ± 1302
pull
Entries 85
Mean 94.33
Std Dev 0

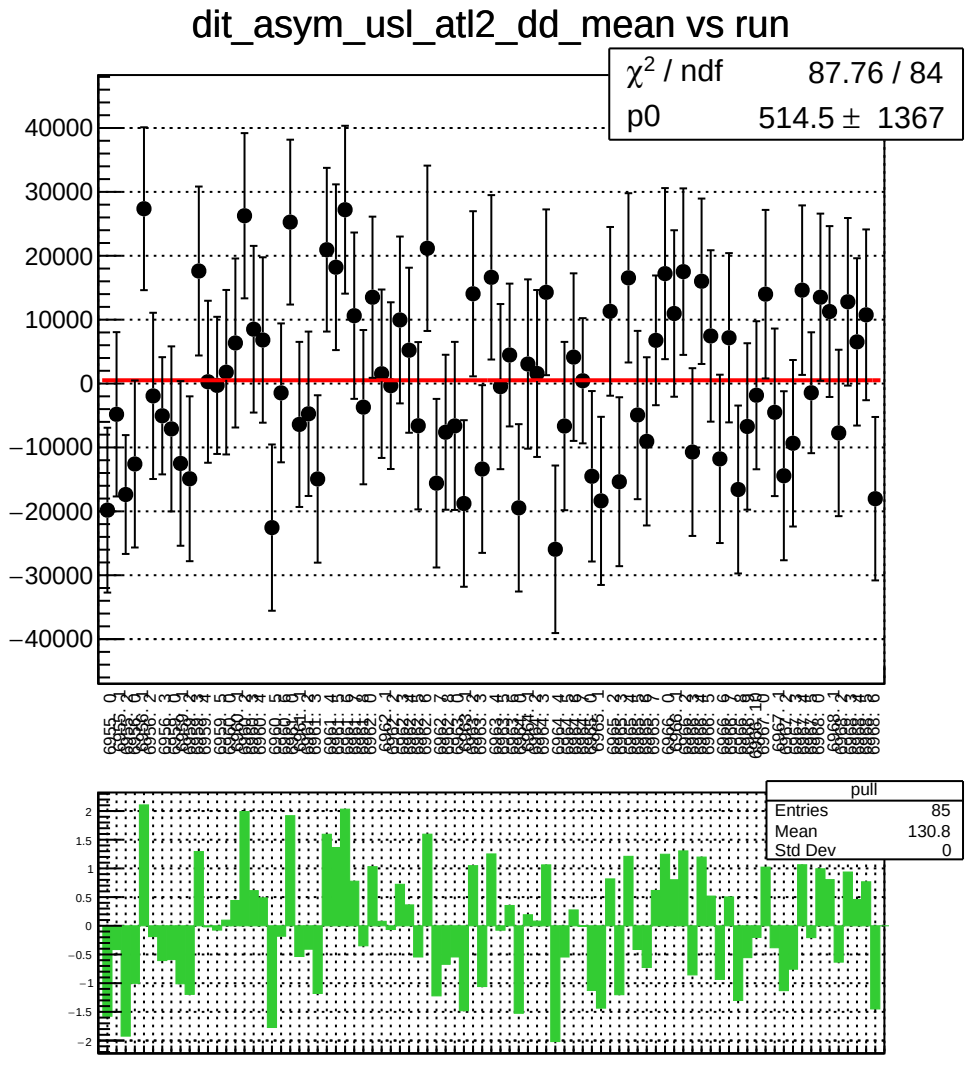

pull1D
Entries 85
Mean 0.007731
Std Dev 1.014

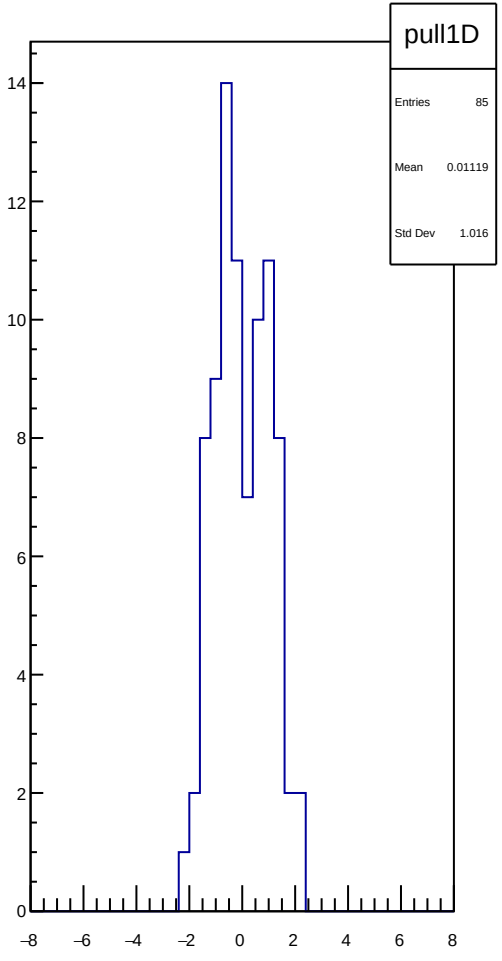

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 175.2 / 84
p0 1179 ± 0.9204
1220
1200
1180
1160
1140

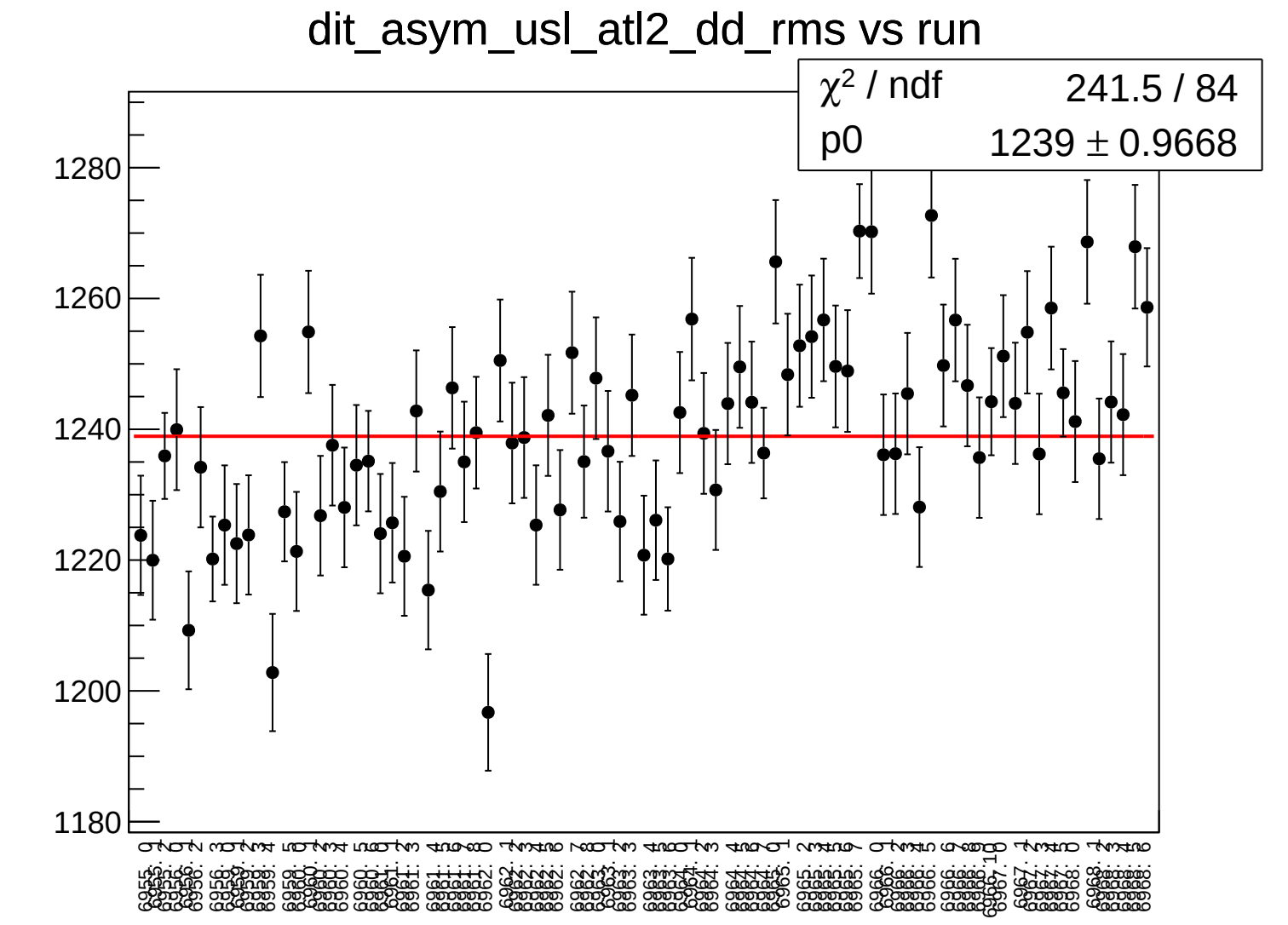

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.6 / 84
p0 2569 ± 5762
pull
Entries 85
Mean 29.44
Std Dev 65.48

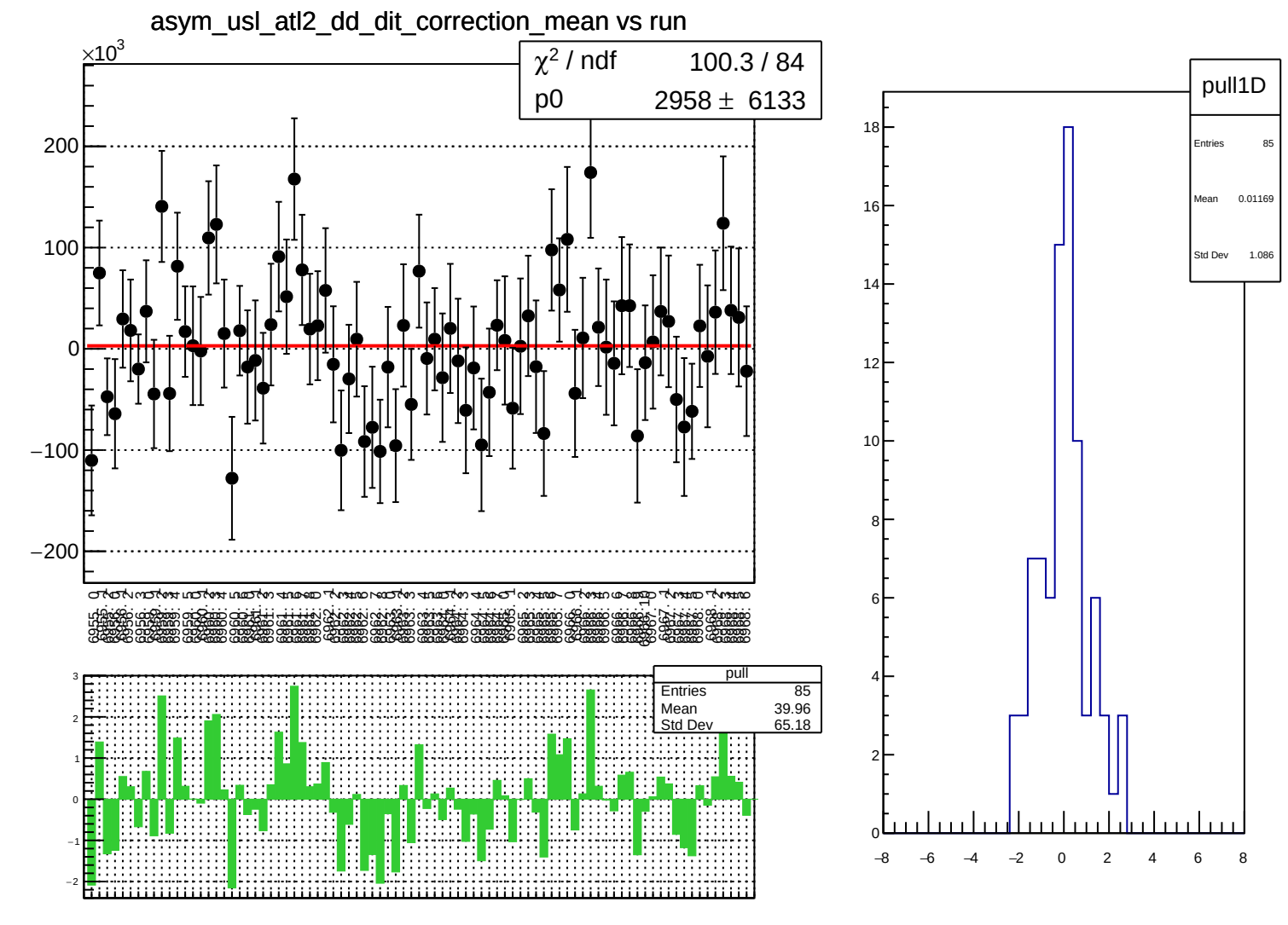

pull1D
Entries 85
Mean 0.0112
Std Dev 1.088

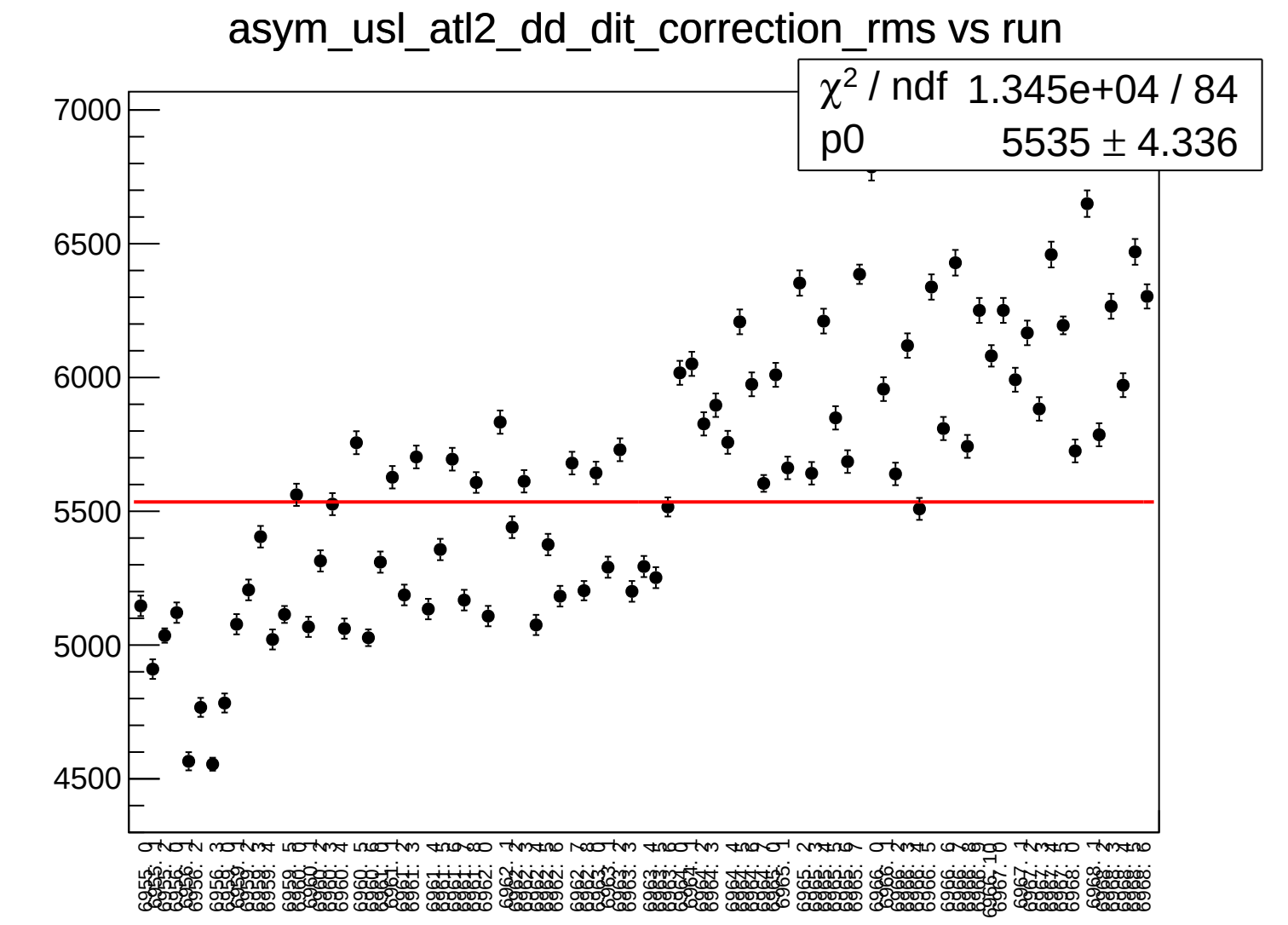

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.344e+04 / 84
p0 5201 ± 4.075
6500
6000
5500
5000
4500

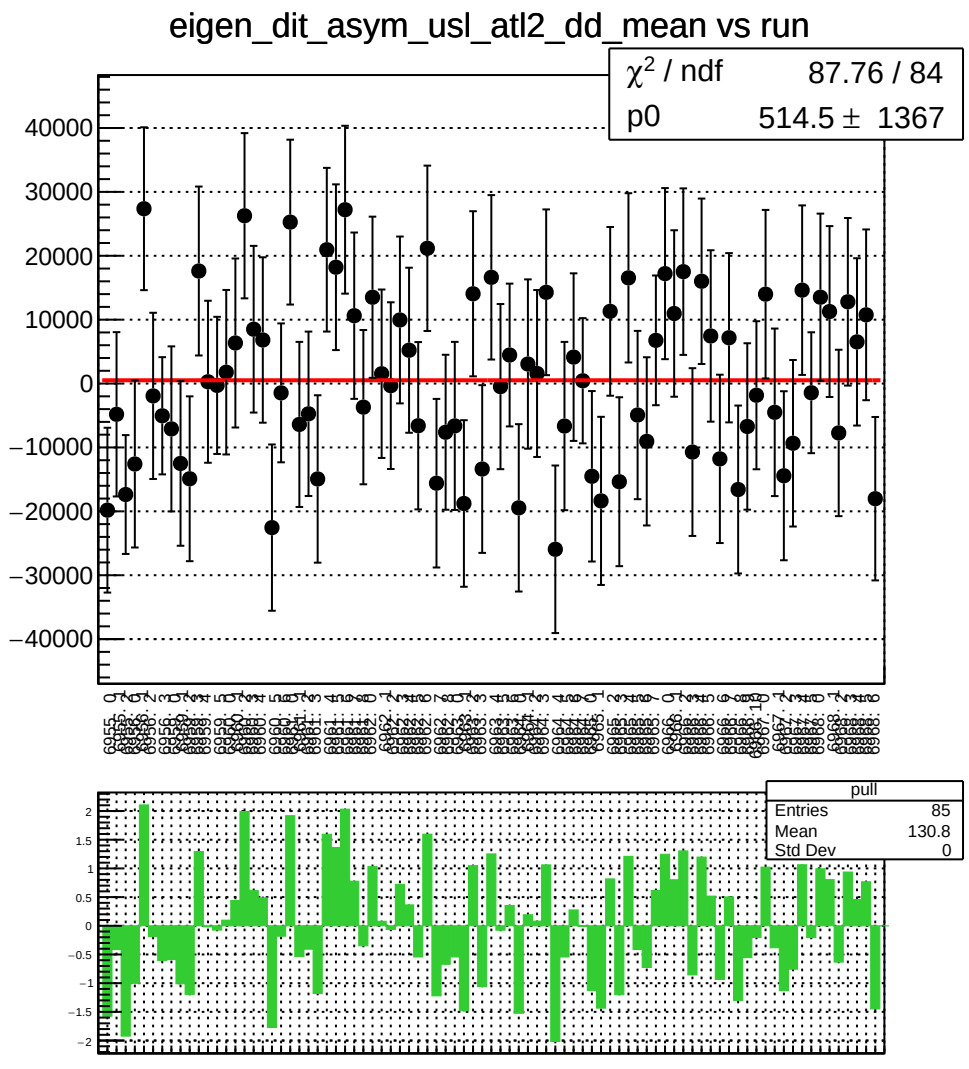

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 87.76 / 84
p0 514.5 ± 1367
pull
Entries 85
Mean 130.8
Std Dev 0

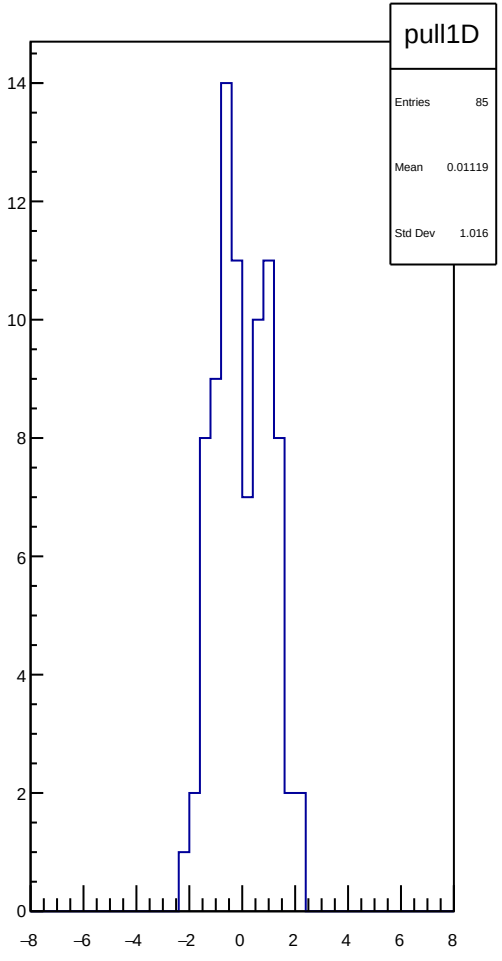

pull1D
Entries 85
Mean 0.01119
Std Dev 1.016

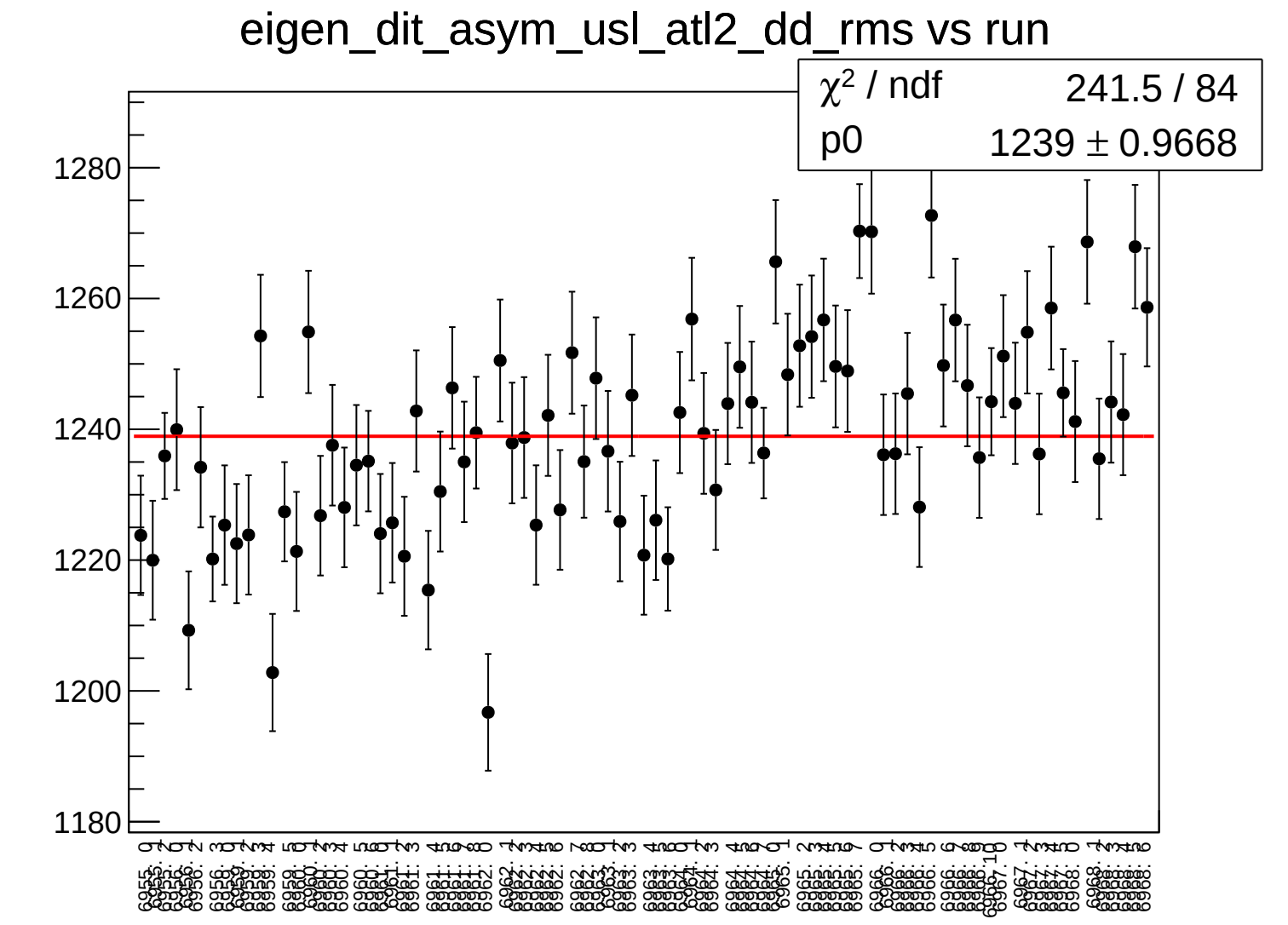

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 241.5 / 84
p0 1239 ± 0.9668
1280
1260
1240
1220
1200
1180

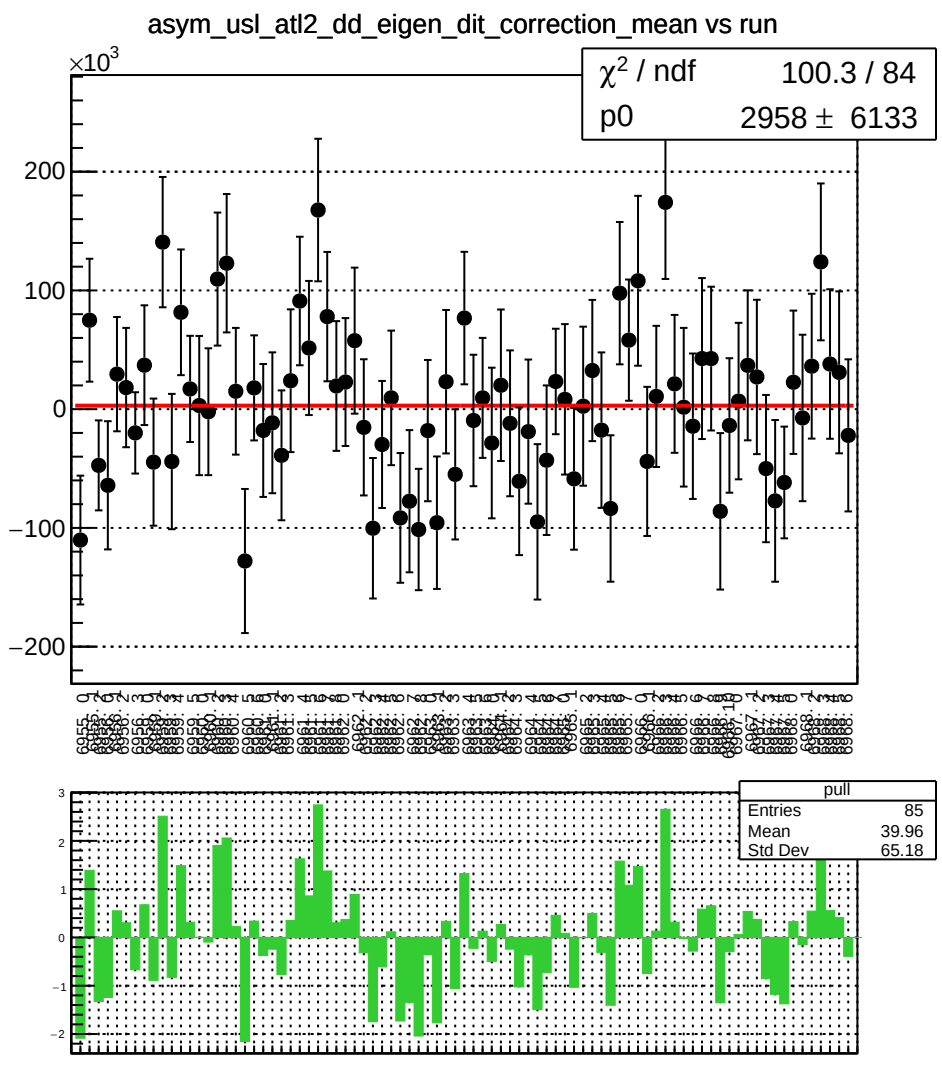

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.3 / 84
p0 2958 ± 6133
200
100
0
−100
−200
pull
Entries 85
Mean 39.96
Std Dev 65.18
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01169
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

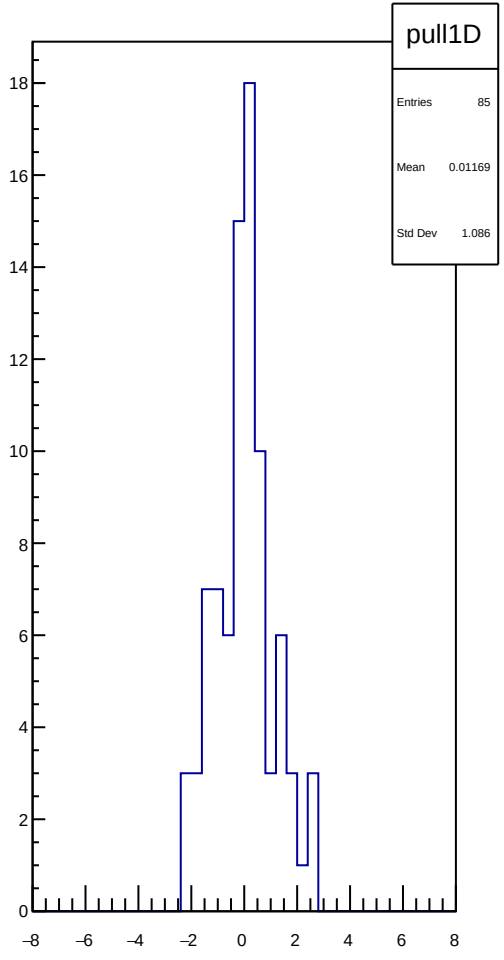

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.345e+04 / 84
p0 5535 ± 4.336
7000
6500
6000
5500
5000
4500

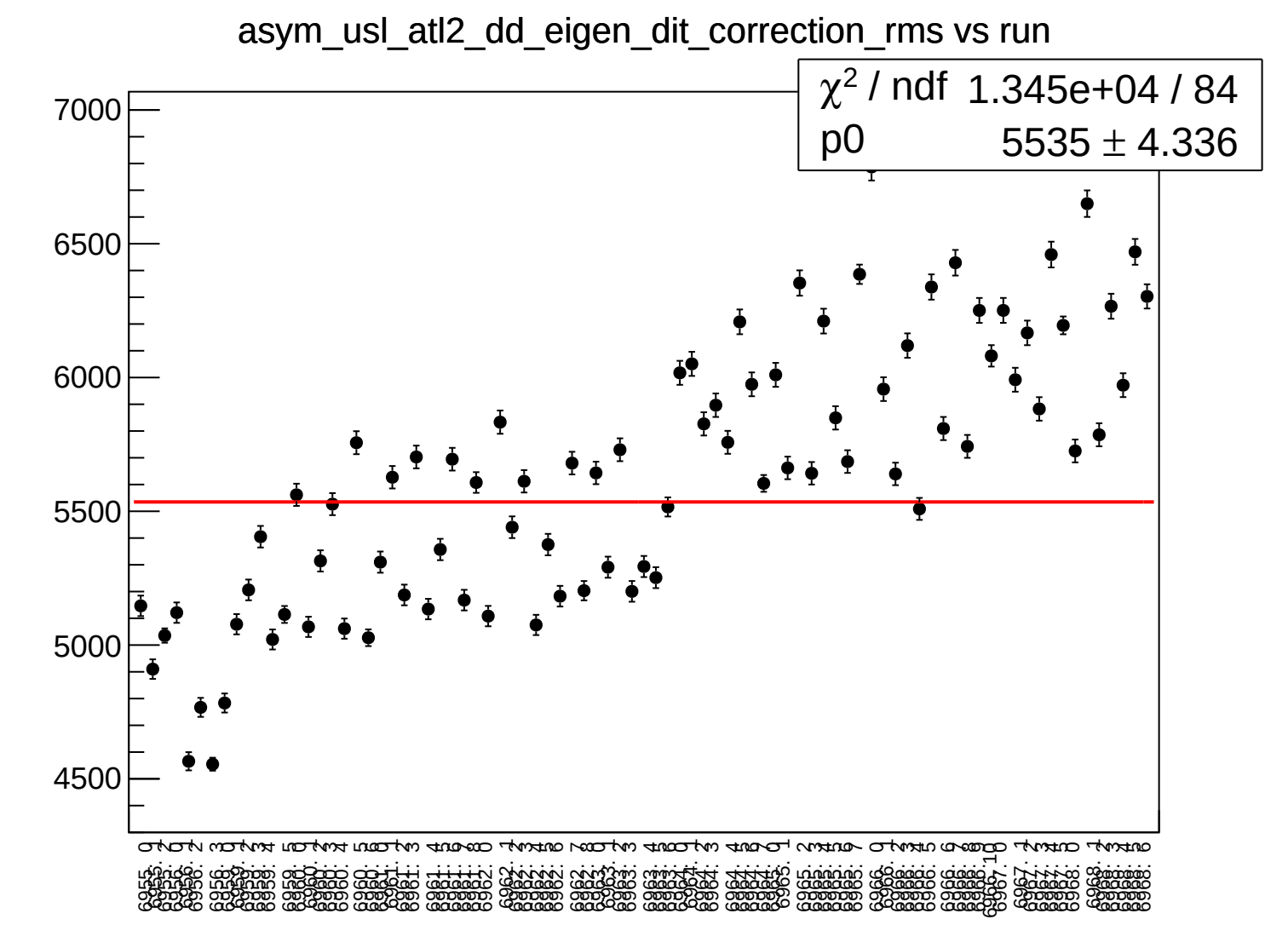

eigen_dit_asym_usl_atl2_dd_mean vs run
$\chi^2$ / ndf 87.76 / 84
p0 514.5 ± 1367
pull
Entries 85
Mean 130.8
Std Dev 0

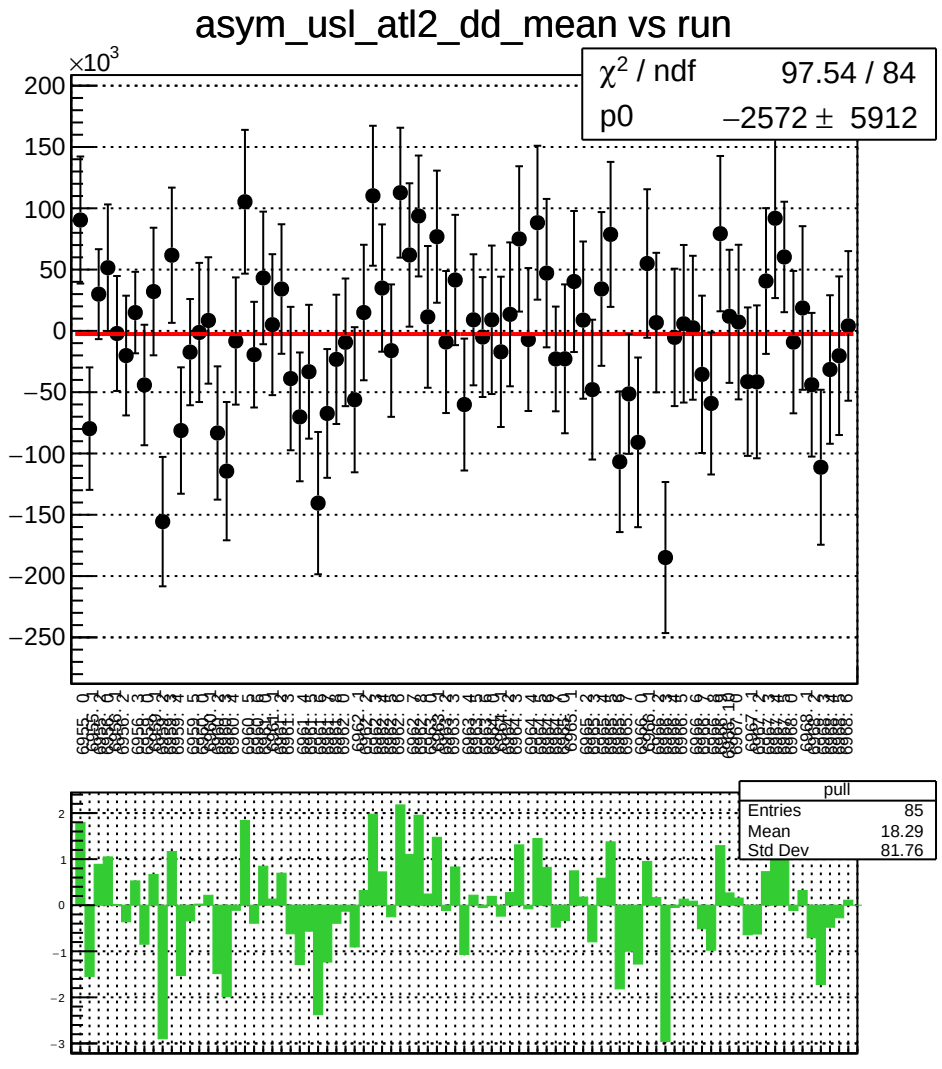

pull1D
Entries 85
Mean 0.01119
Std Dev 1.016

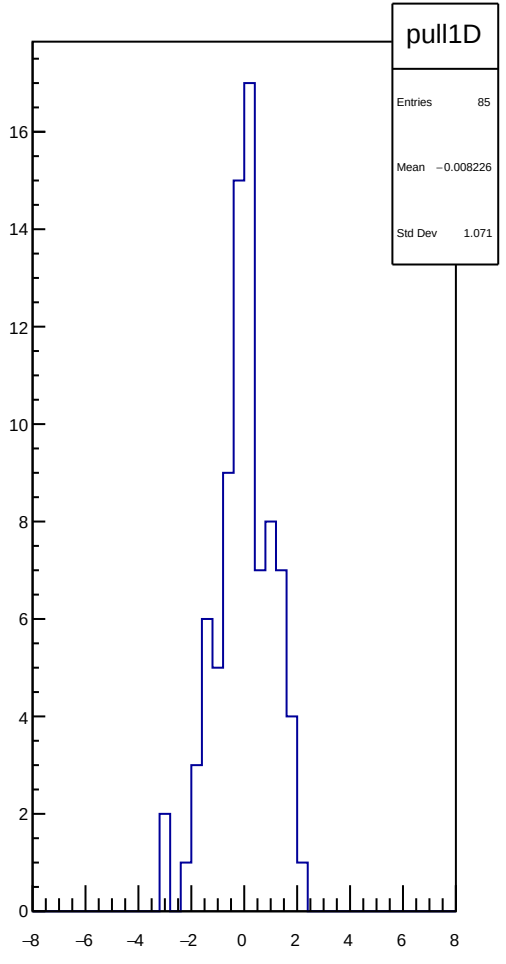

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 241.5 / 84
p0 1239 ± 0.9668
1280
1260
1240
1220
1200
1180

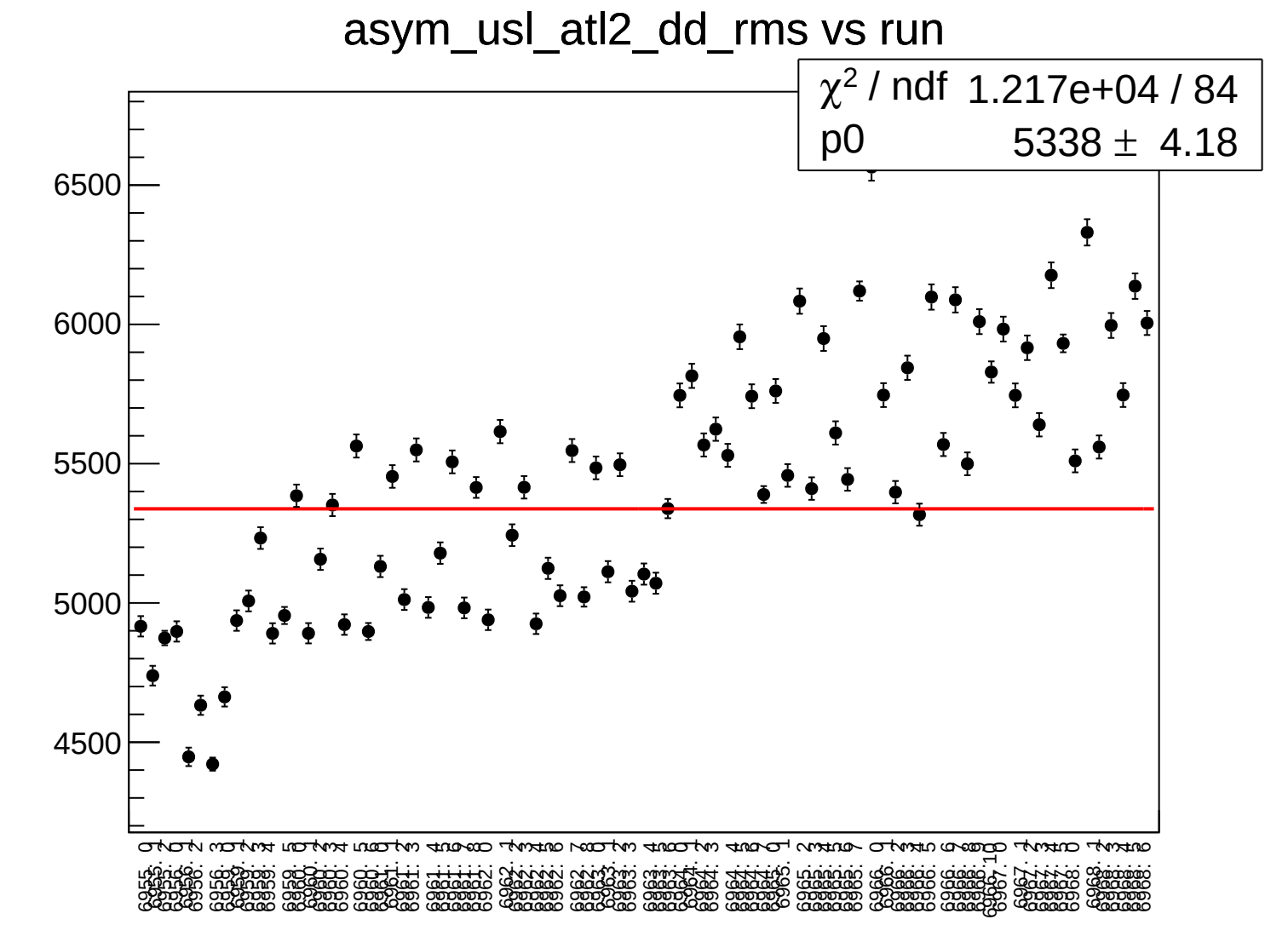

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.3 / 84
p0 2958 ± 6133
×10³
200
100
0
−100
−200
pull
Entries 85
Mean 39.96
Std Dev 65.18
3
2
1
0
−1
−2

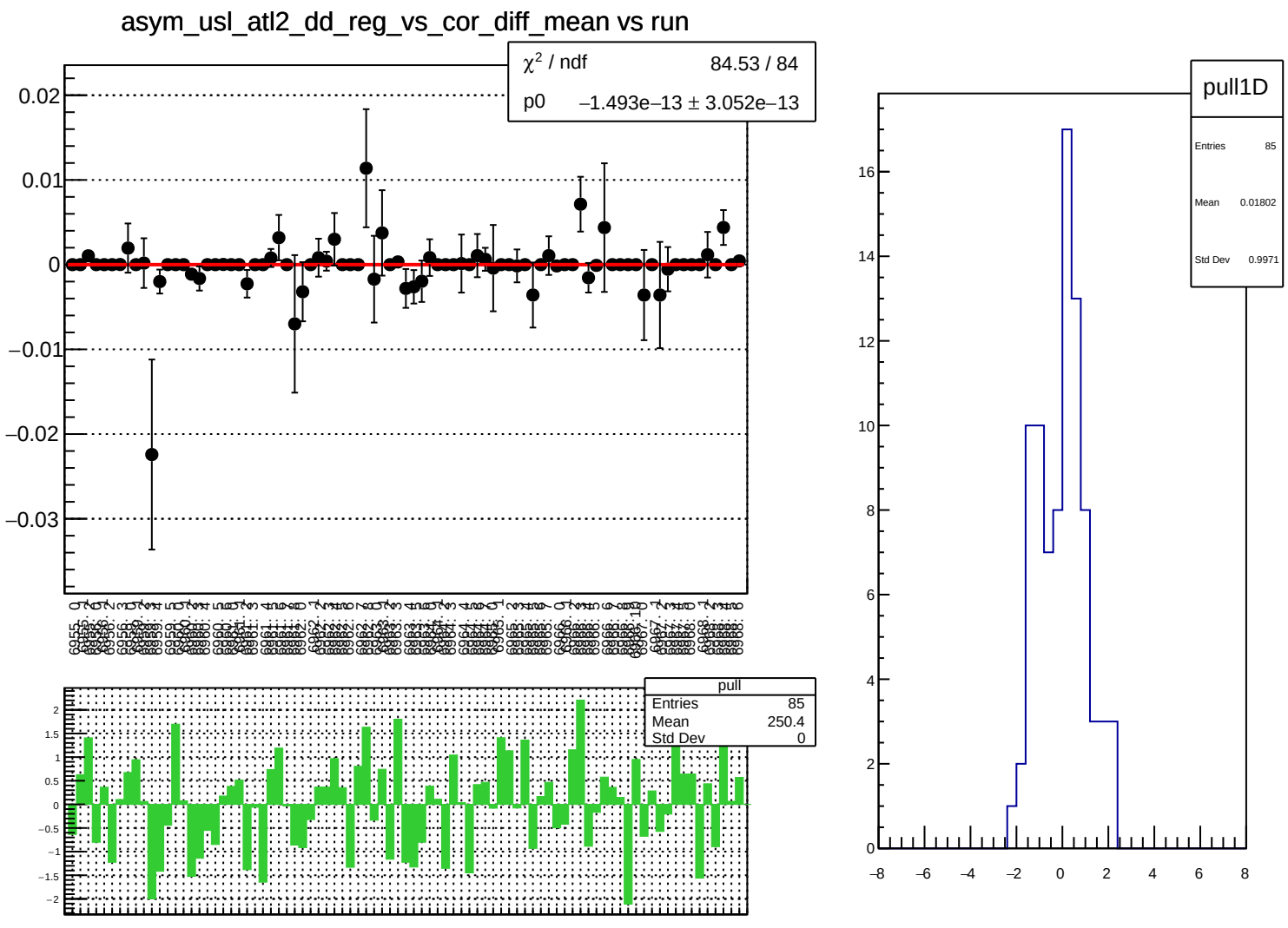

pull1D
Entries 85
Mean 0.01169
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

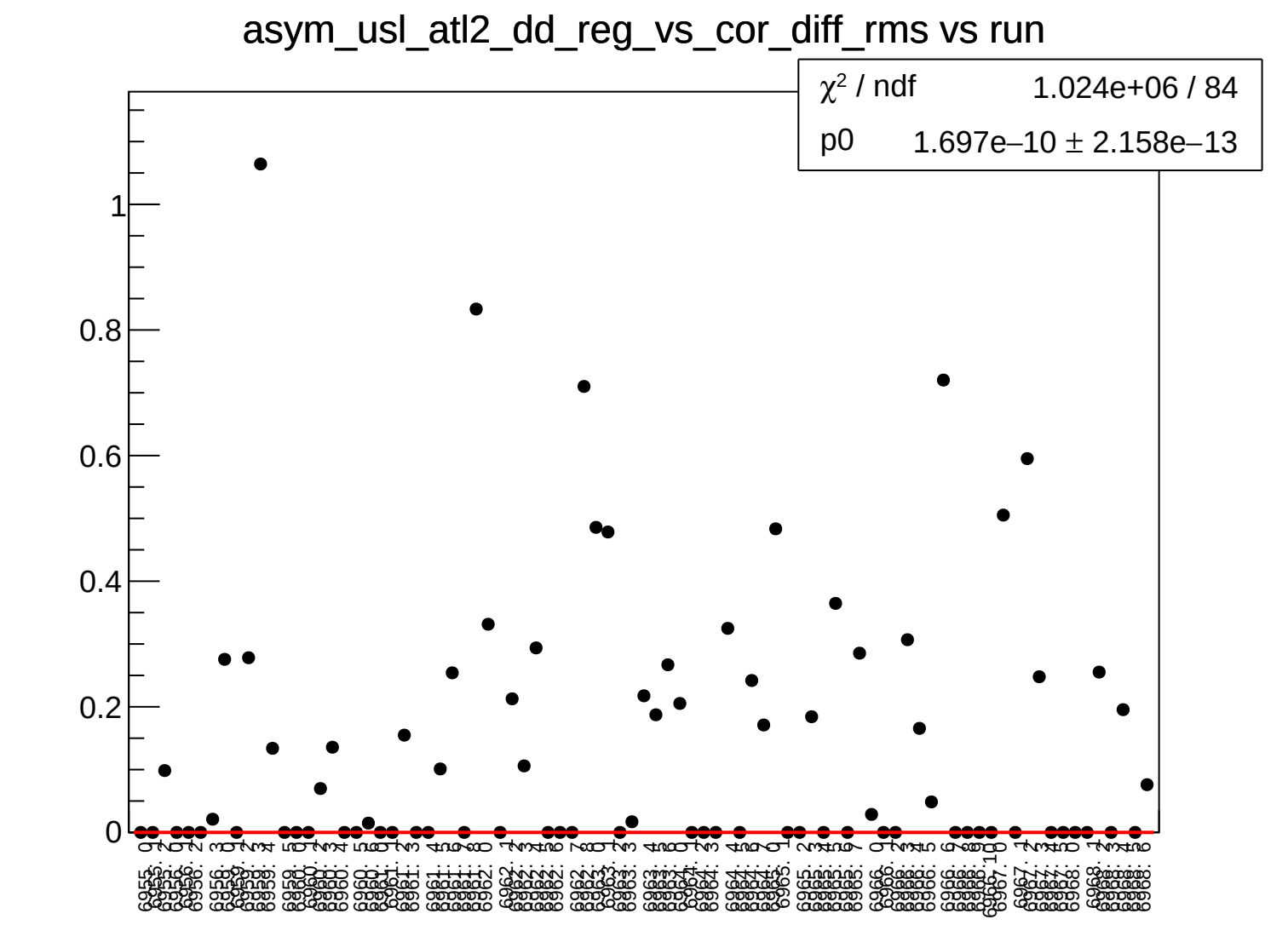

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.345e+04 / 84
p0 5535 ± 4.336
7000
6500
6000
5500
5000
4500

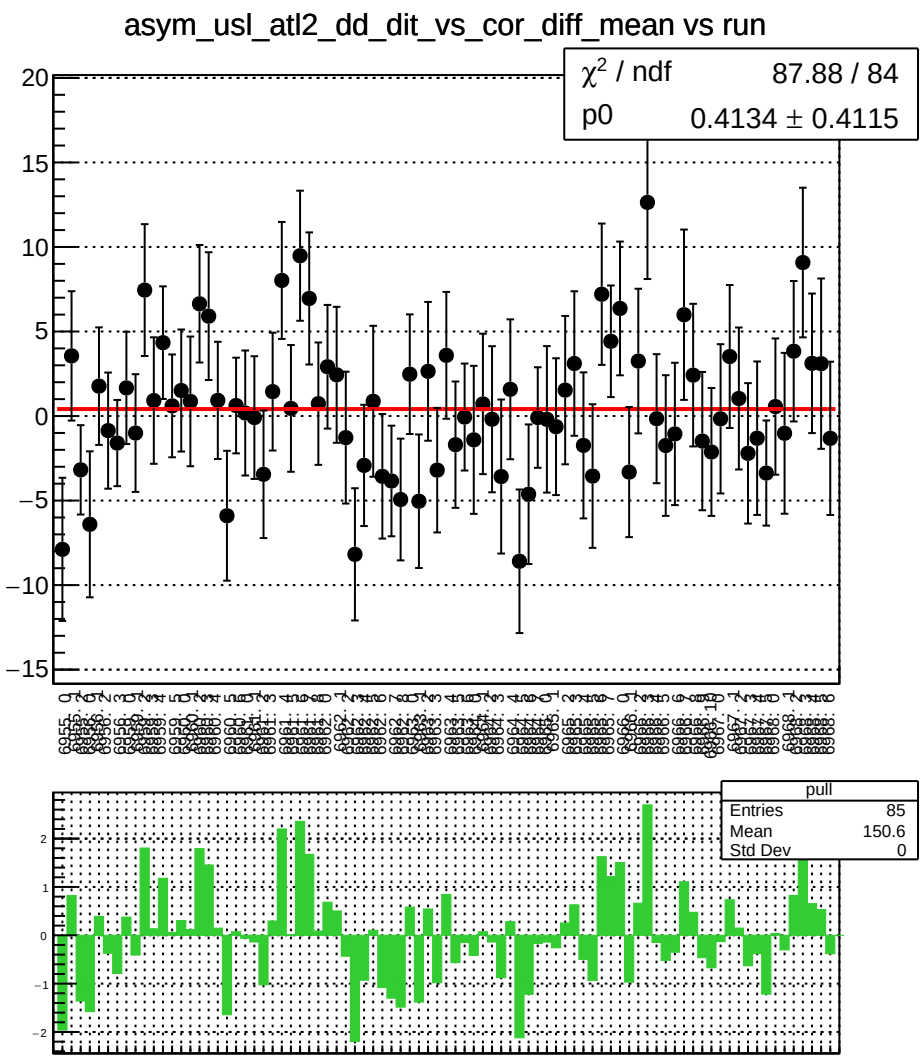

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 97.54 / 84
p0 −2572 ± 5912
pull
Entries 85
Mean 18.29
Std Dev 81.76

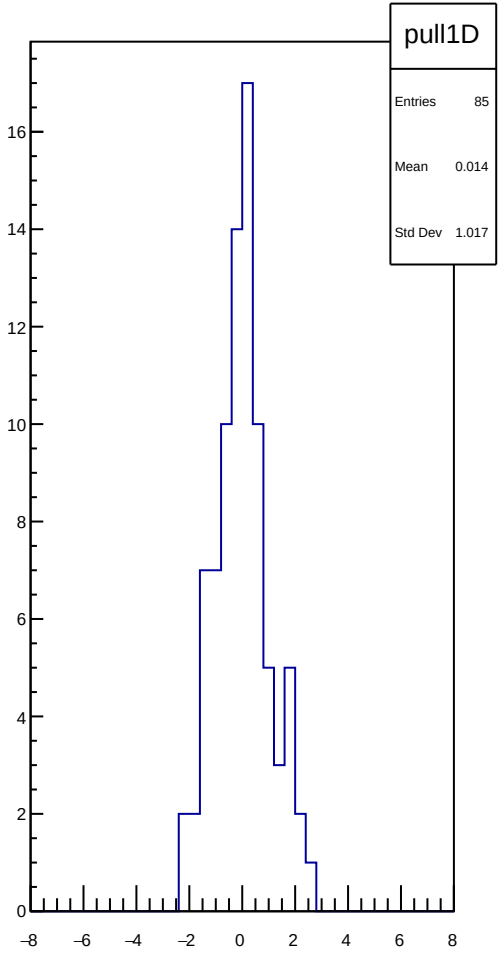

pull1D
Entries 85
Mean −0.008226
Std Dev 1.071

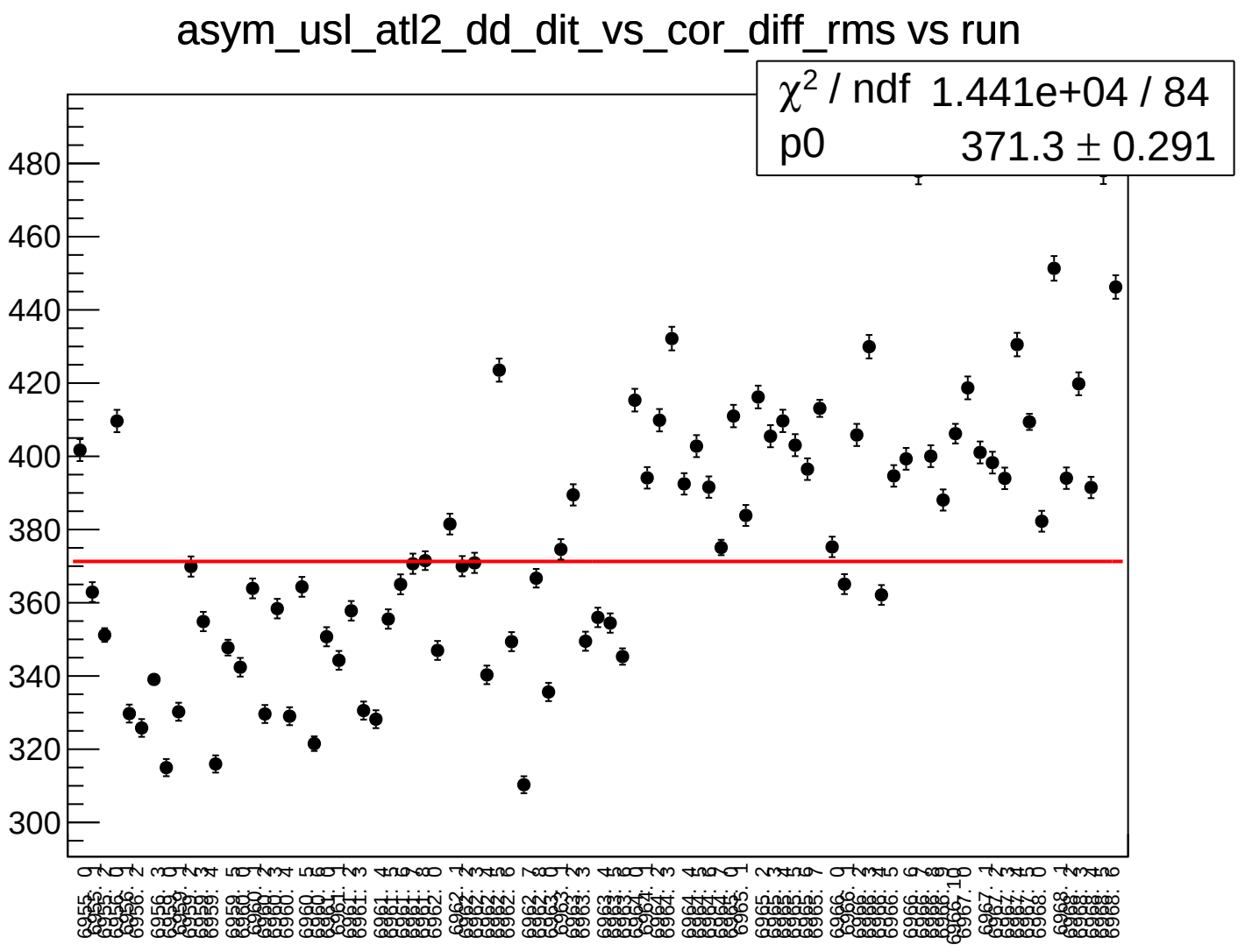

asym_usl_atl2_dd_rms vs run
χ² / ndf 1.217e+04 / 84
p0 5338 ± 4.18
6500
6000
5500
5000
4500

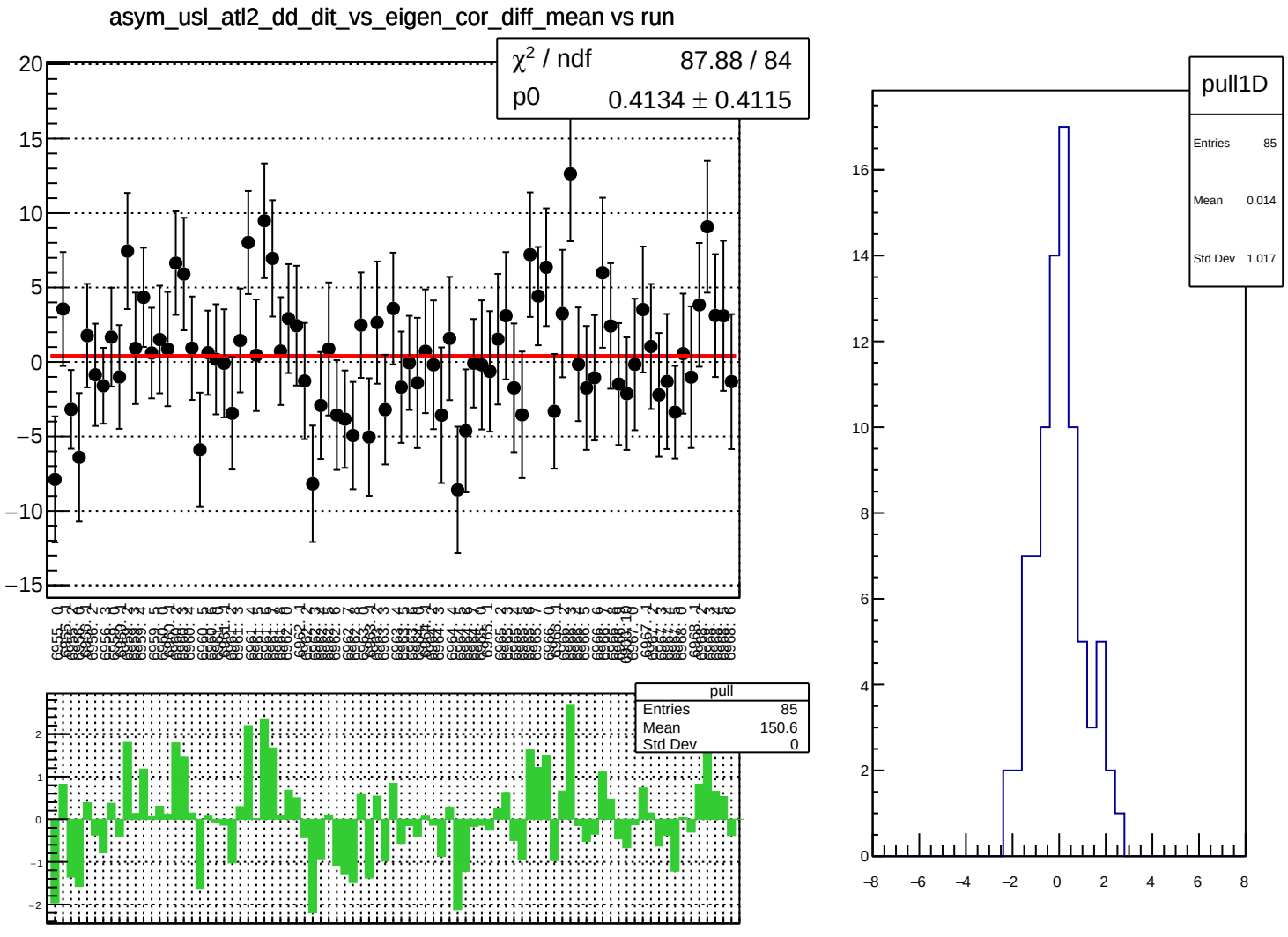

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.53 / 84
p0 −1.493e−13 ± 3.052e−13
pull
Entries 85
Mean 250.4
Std Dev 0
pull1D
Entries 85
Mean 0.01802
Std Dev 0.9971

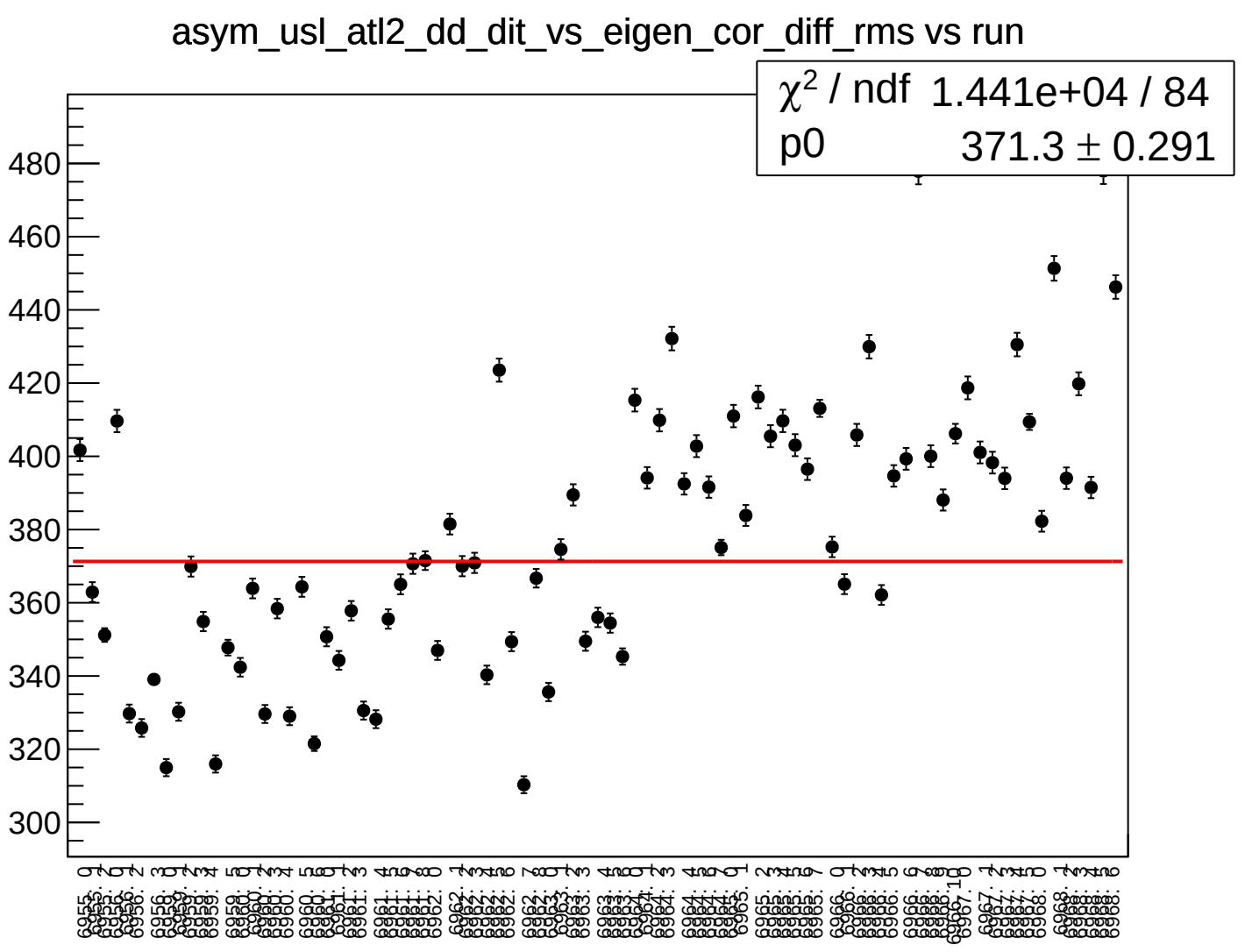

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 84
p0 1.697e−10 ± 2.158e−13
1
0.8
0.6
0.4
0.2
0

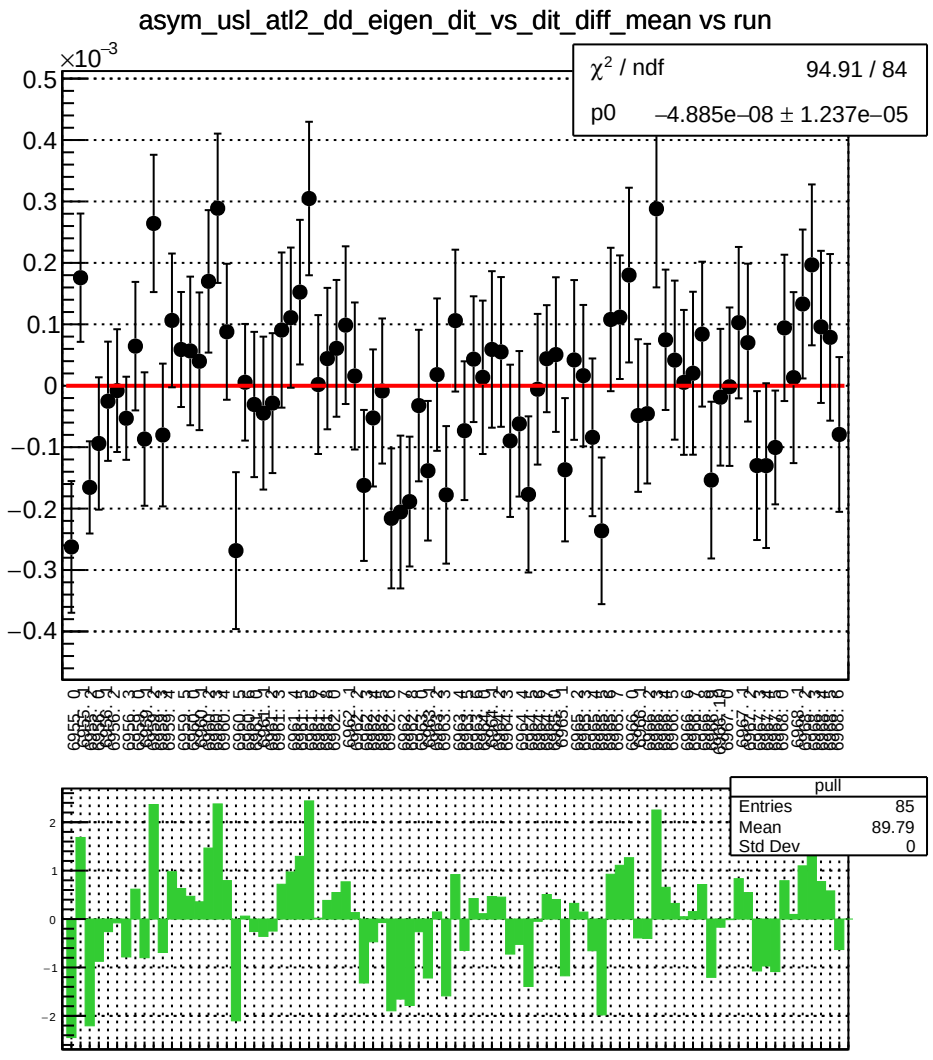

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.88 / 84
p0 0.4134 ± 0.4115
pull
Entries 85
Mean 150.6
Std Dev 0

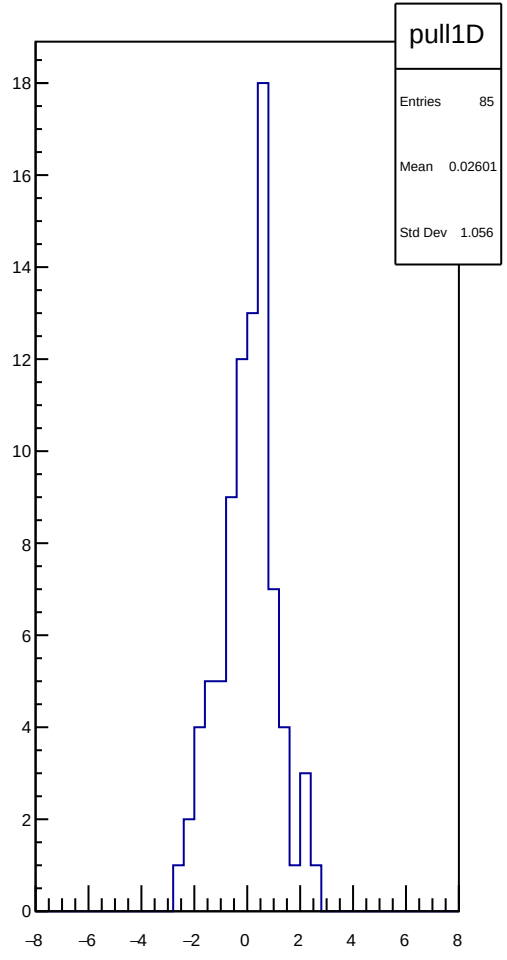

pull1D
Entries 85
Mean 0.014
Std Dev 1.017

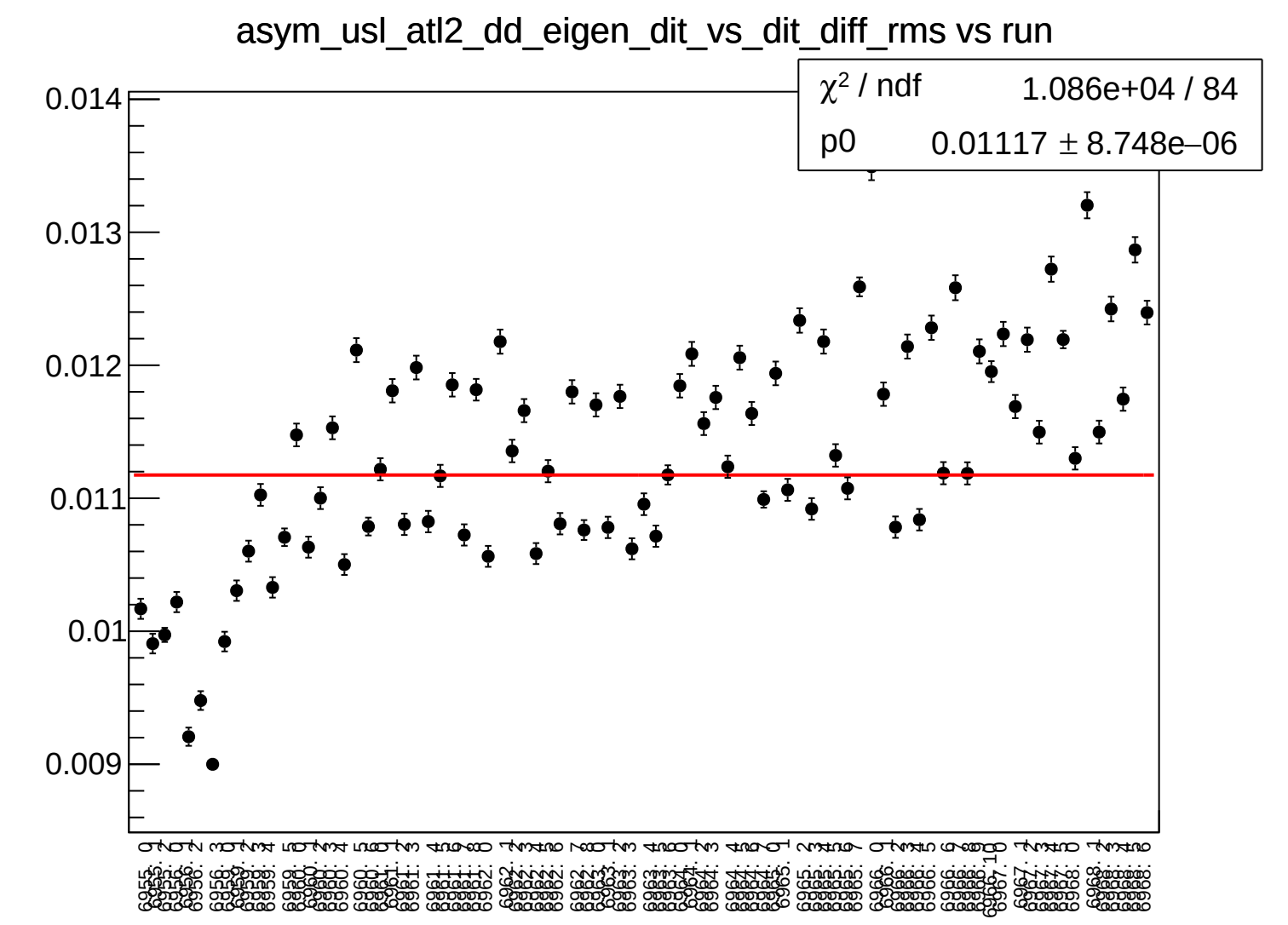

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.441e+04 / 84
p0 371.3 ± 0.291
480
460
440
420
400
380
360
340
320
300

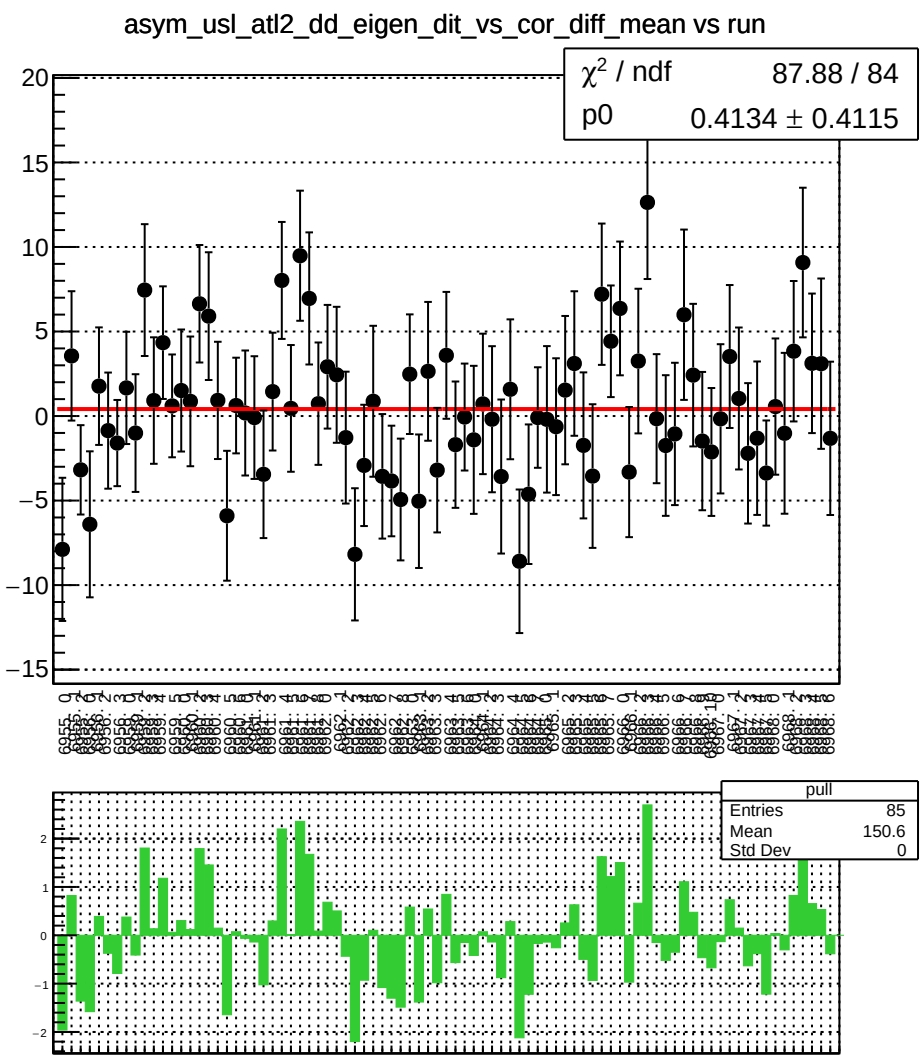

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.88 / 84
p0 0.4134 ± 0.4115
pull
Entries 85
Mean 150.6
Std Dev 0
pull1D
Entries 85
Mean 0.014
Std Dev 1.017

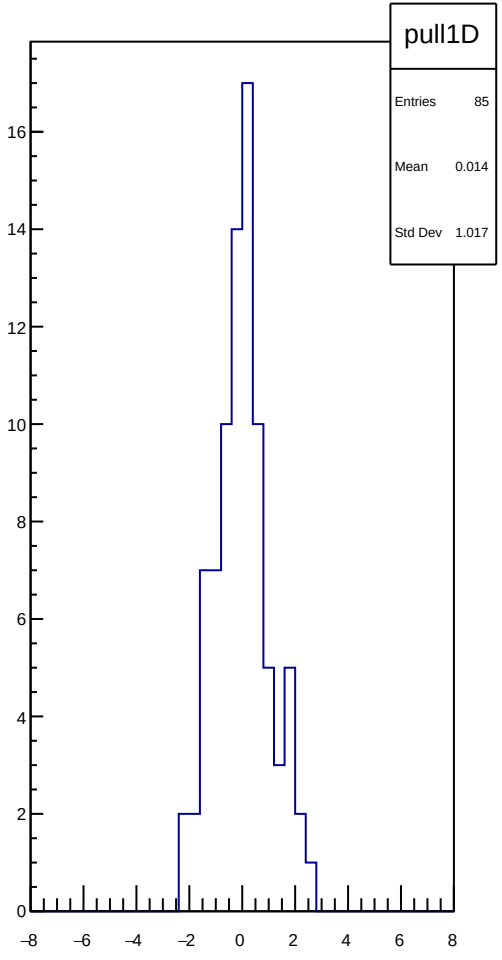

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.441e+04 / 84
p0 371.3 ± 0.291
480
460
440
420
400
380
360
340
320
300

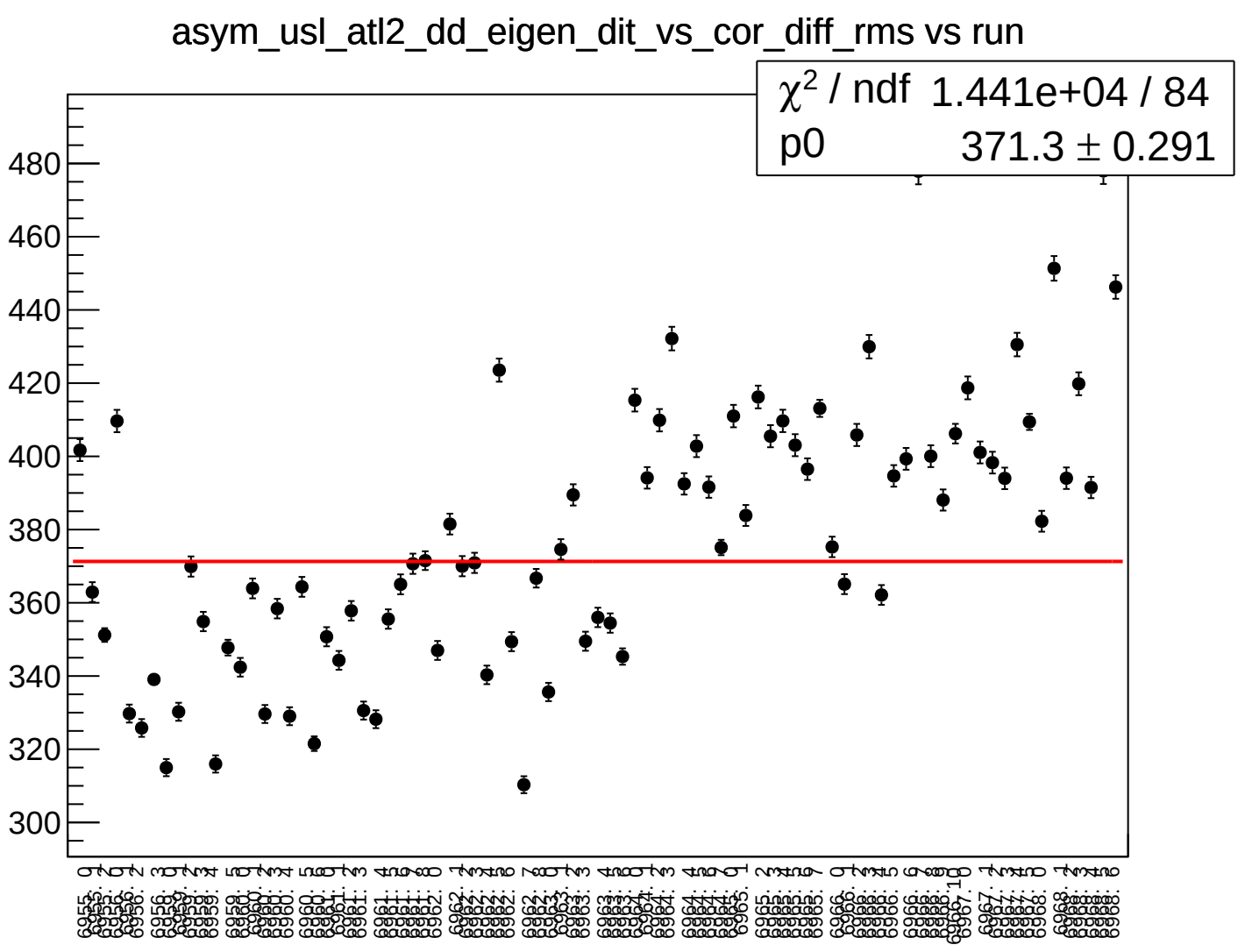

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.91 / 84
p0 −4.885e−08 ± 1.237e−05
pull
Entries 85
Mean 89.79
Std Dev 0

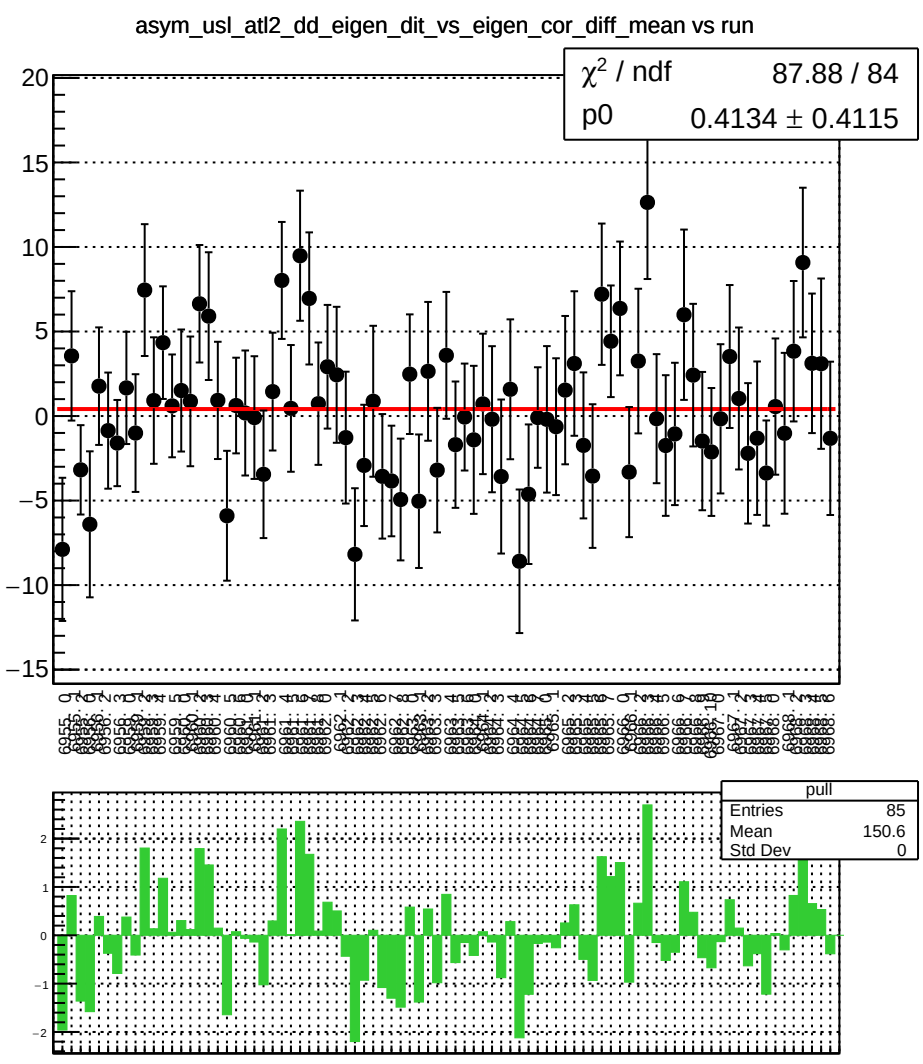

pull1D
Entries 85
Mean 0.02601
Std Dev 1.056

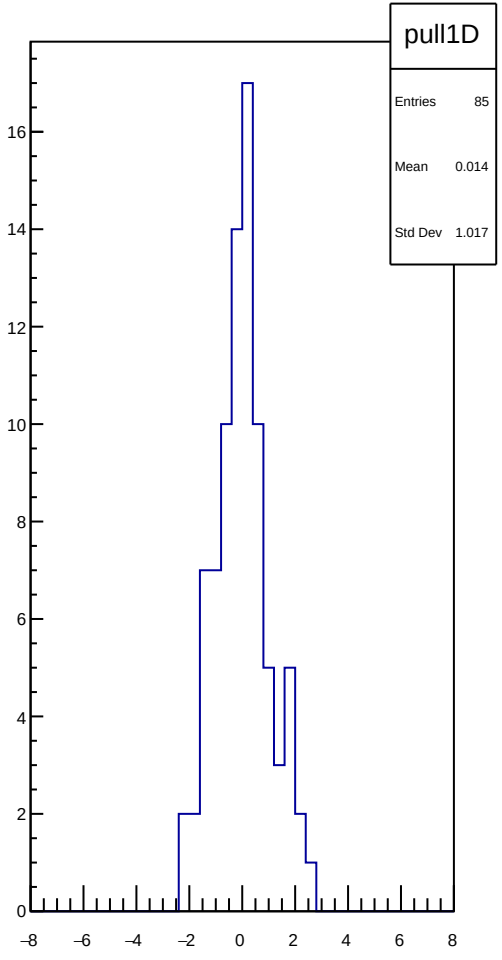

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.086e+04 / 84
p0 0.01117 ± 8.748e–06
0.014
0.013
0.012
0.011
0.01
0.009

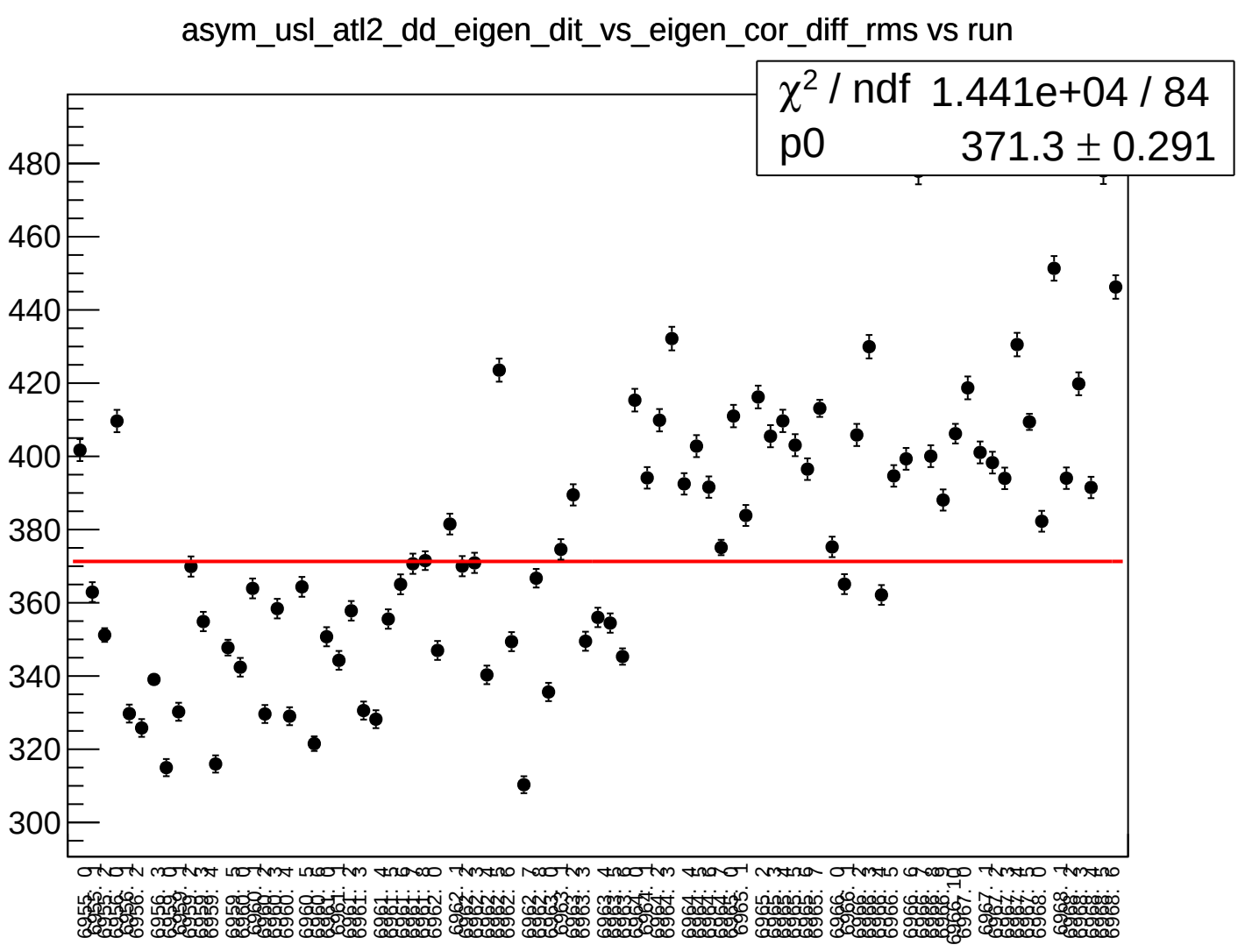

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.88 / 84
p0 0.4134 ± 0.4115
pull
Entries 85
Mean 150.6
Std Dev 0

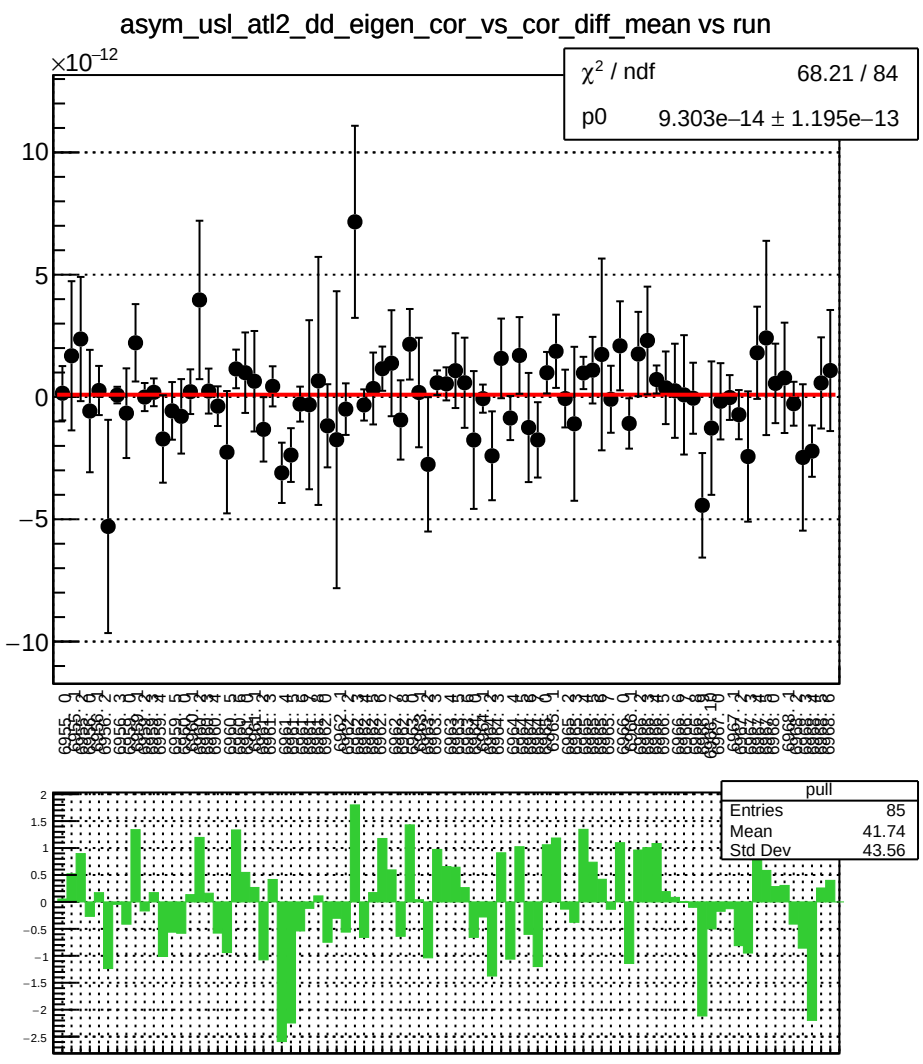

pull1D
Entries 85
Mean 0.014
Std Dev 1.017

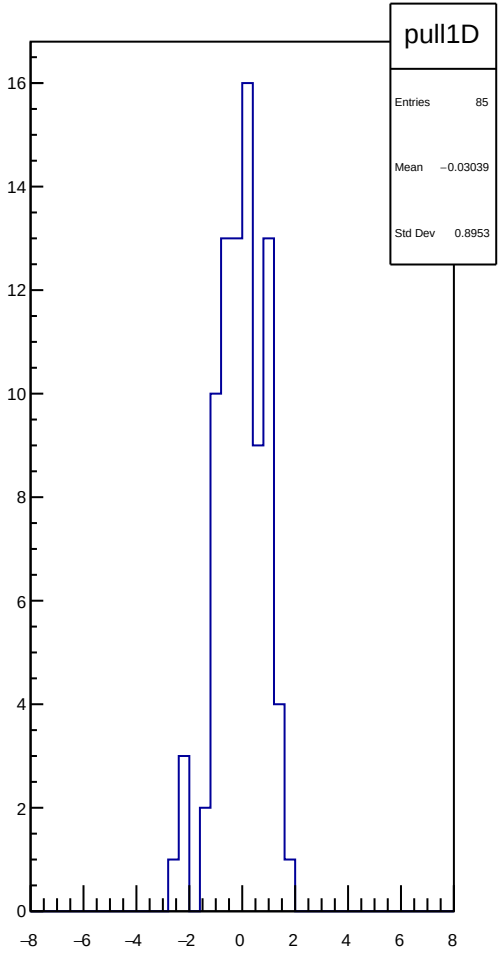

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.441e+04 / 84
p0 371.3 ± 0.291
480
460
440
420
400
380
360
340
320
300

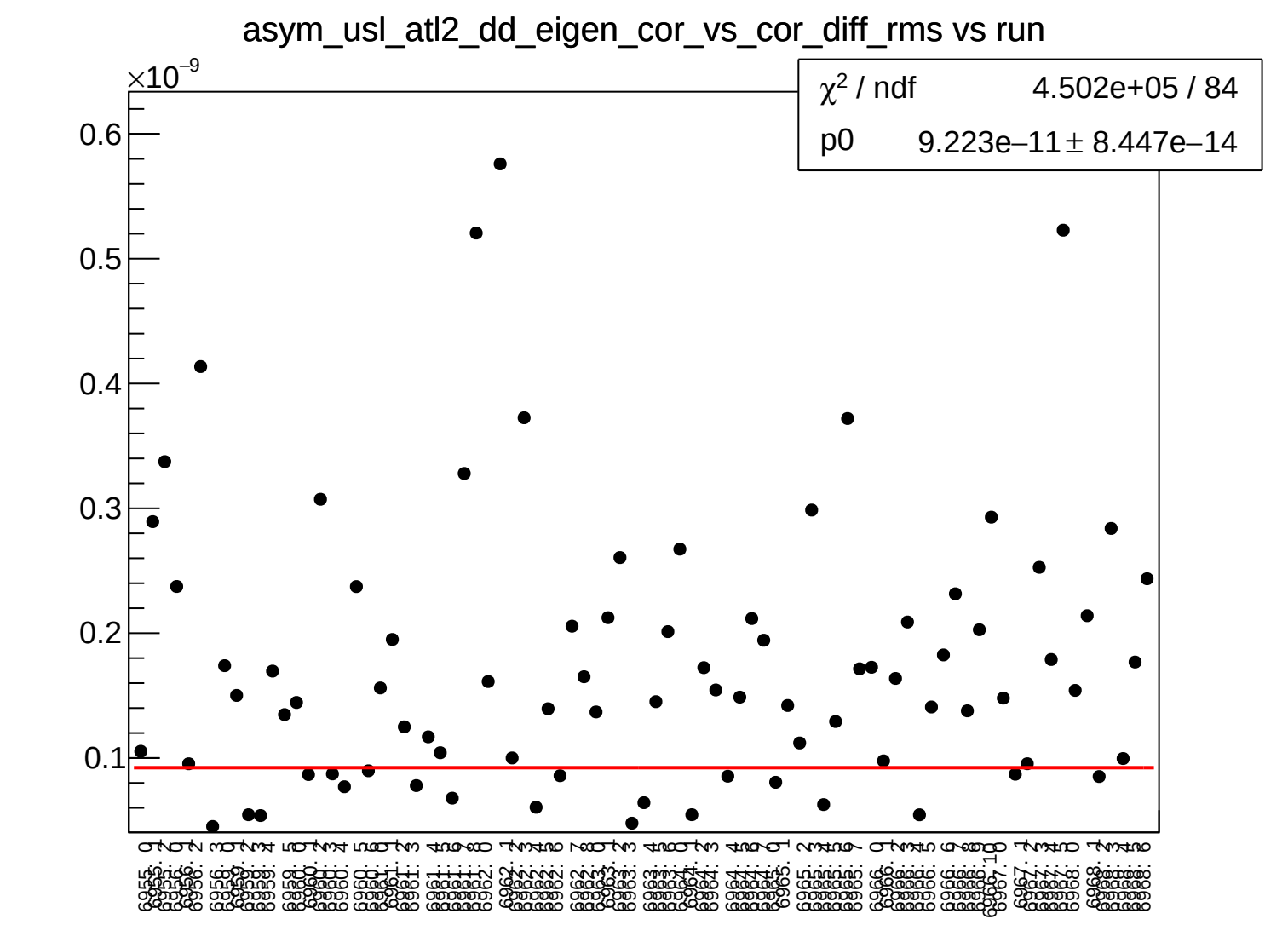

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.88 / 84
p0 0.4134 ± 0.4115
pull
Entries 85
Mean 150.6
Std Dev 0

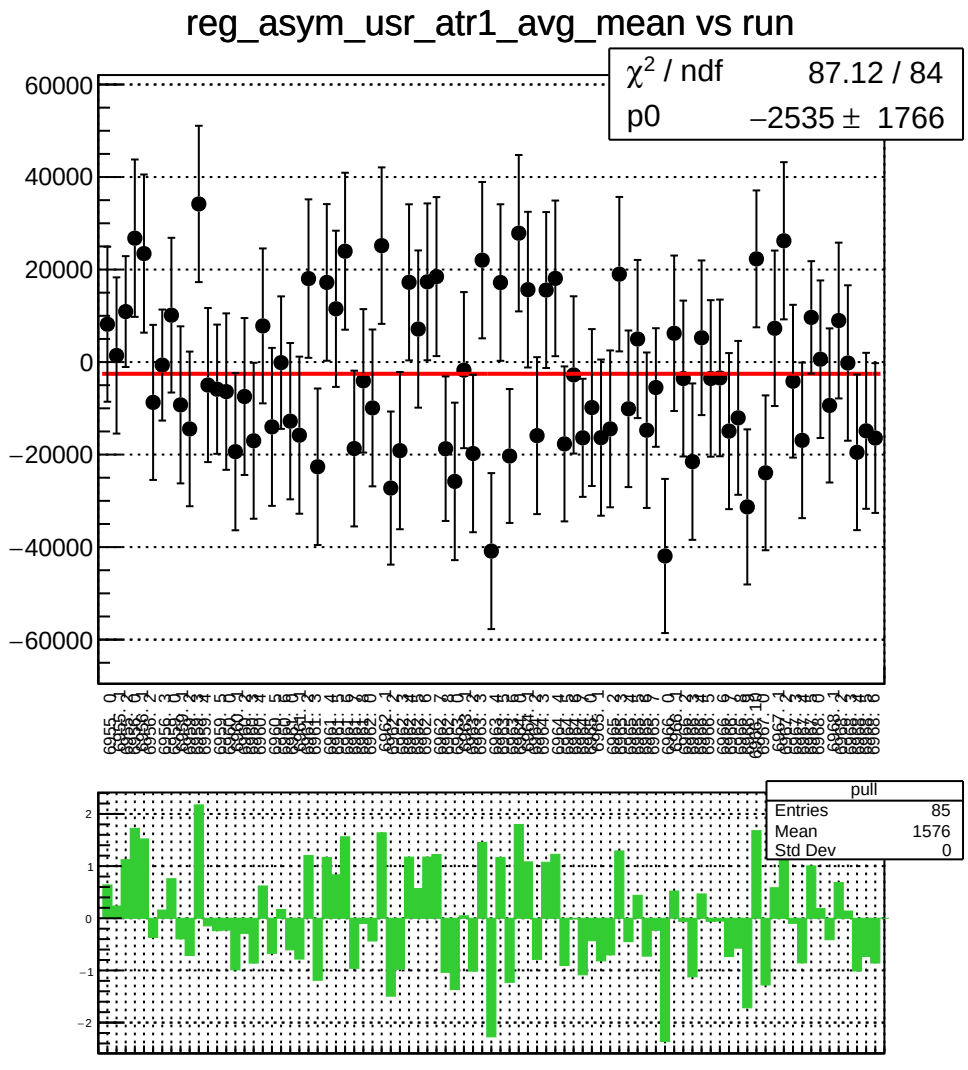

pull1D
Entries 85
Mean 0.014
Std Dev 1.017

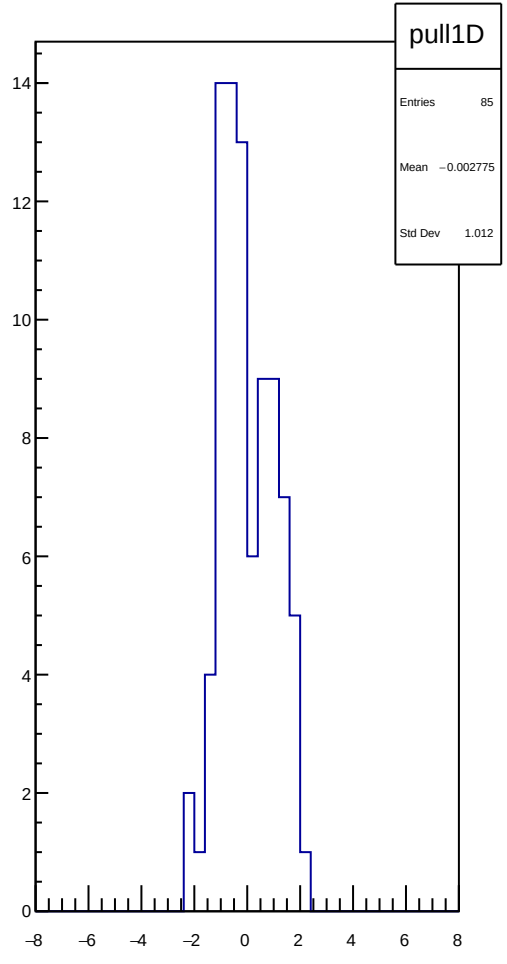

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.441e+04 / 84
p0 371.3 ± 0.291
480
460
440
420
400
380
360
340
320
300

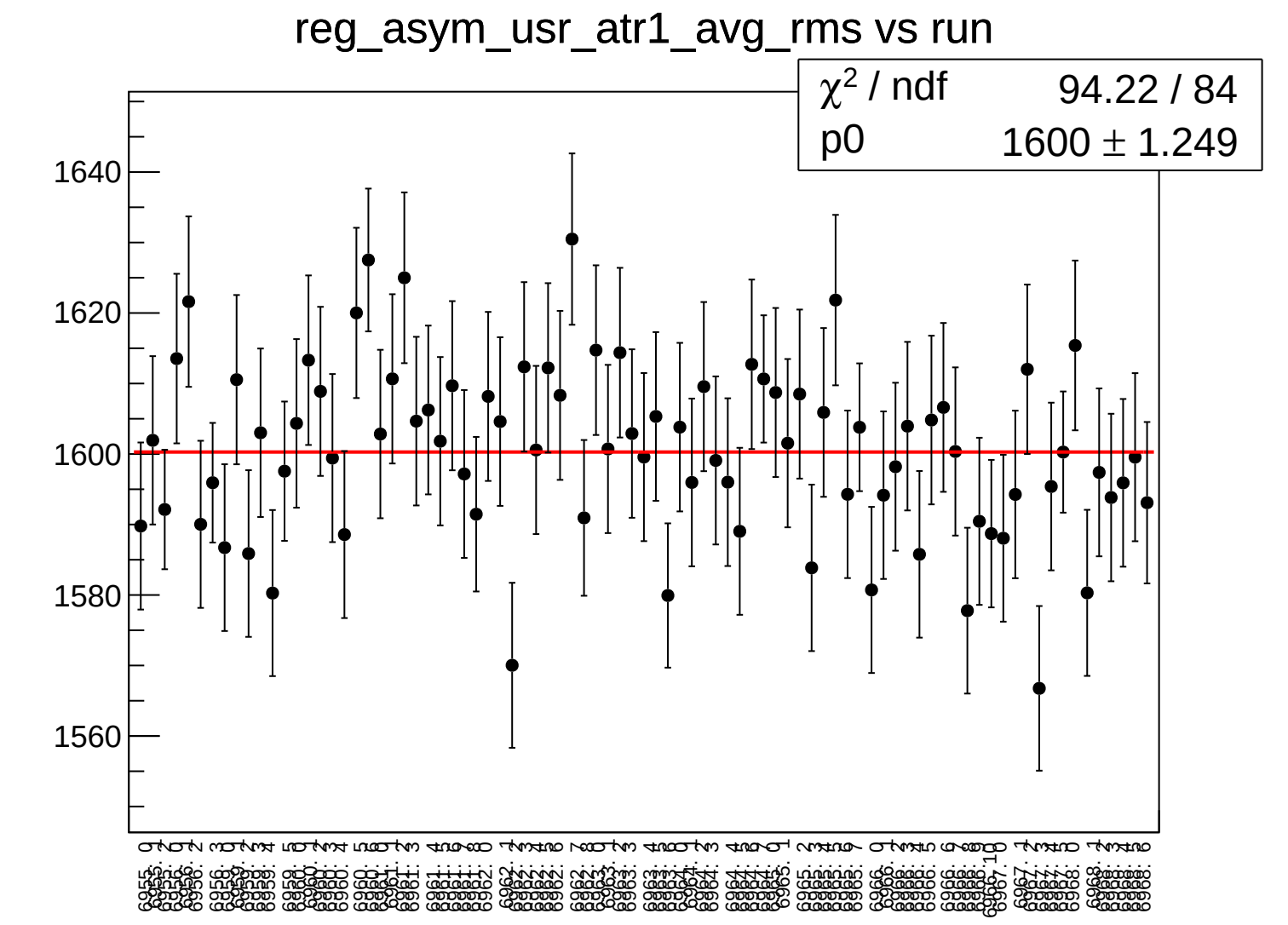

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.21 / 84
p0 9.303e−14 ± 1.195e−13
10
5
0
−5
−10
pull
Entries 85
Mean 41.74
Std Dev 43.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

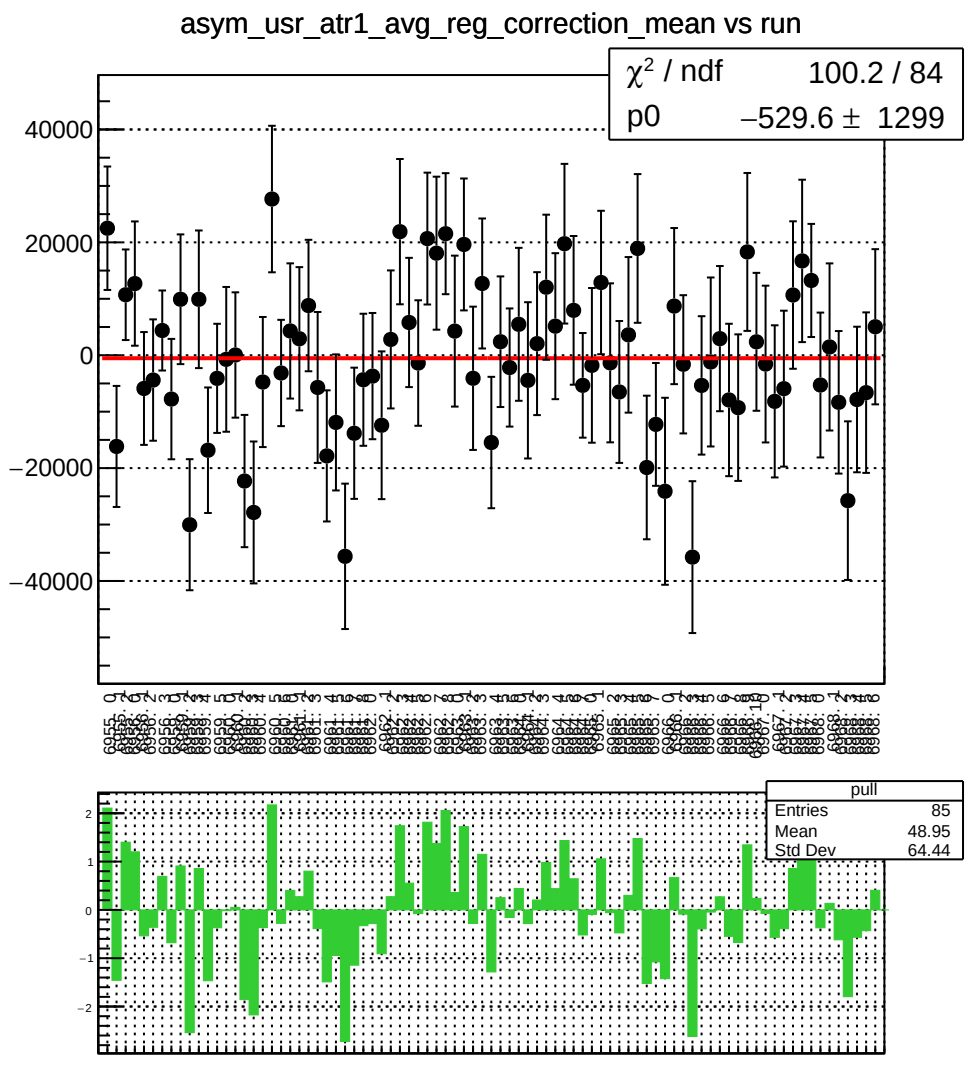

pull1D
Entries 85
Mean −0.03039
Std Dev 0.8953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

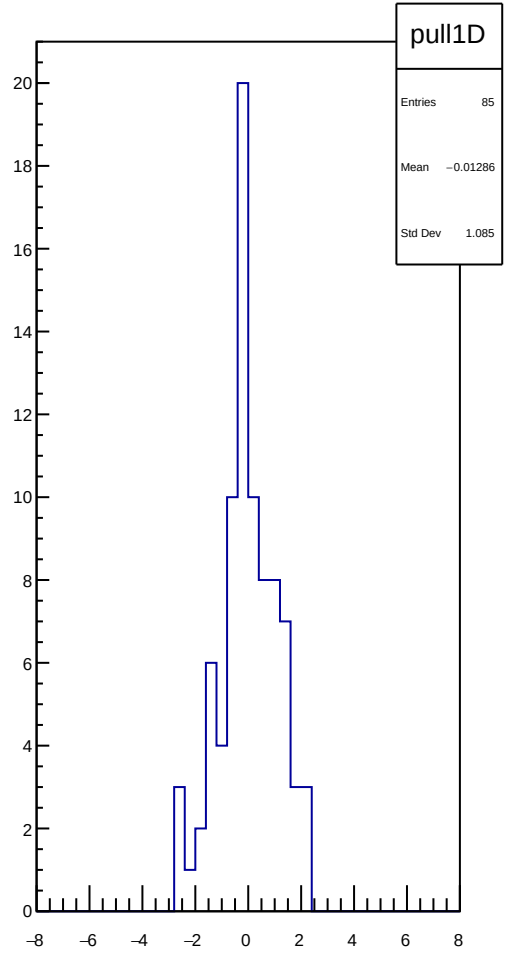

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.502e+05 / 84
p0 9.223e−11 ± 8.447e−14
0.6
0.5
0.4
0.3
0.2
0.1

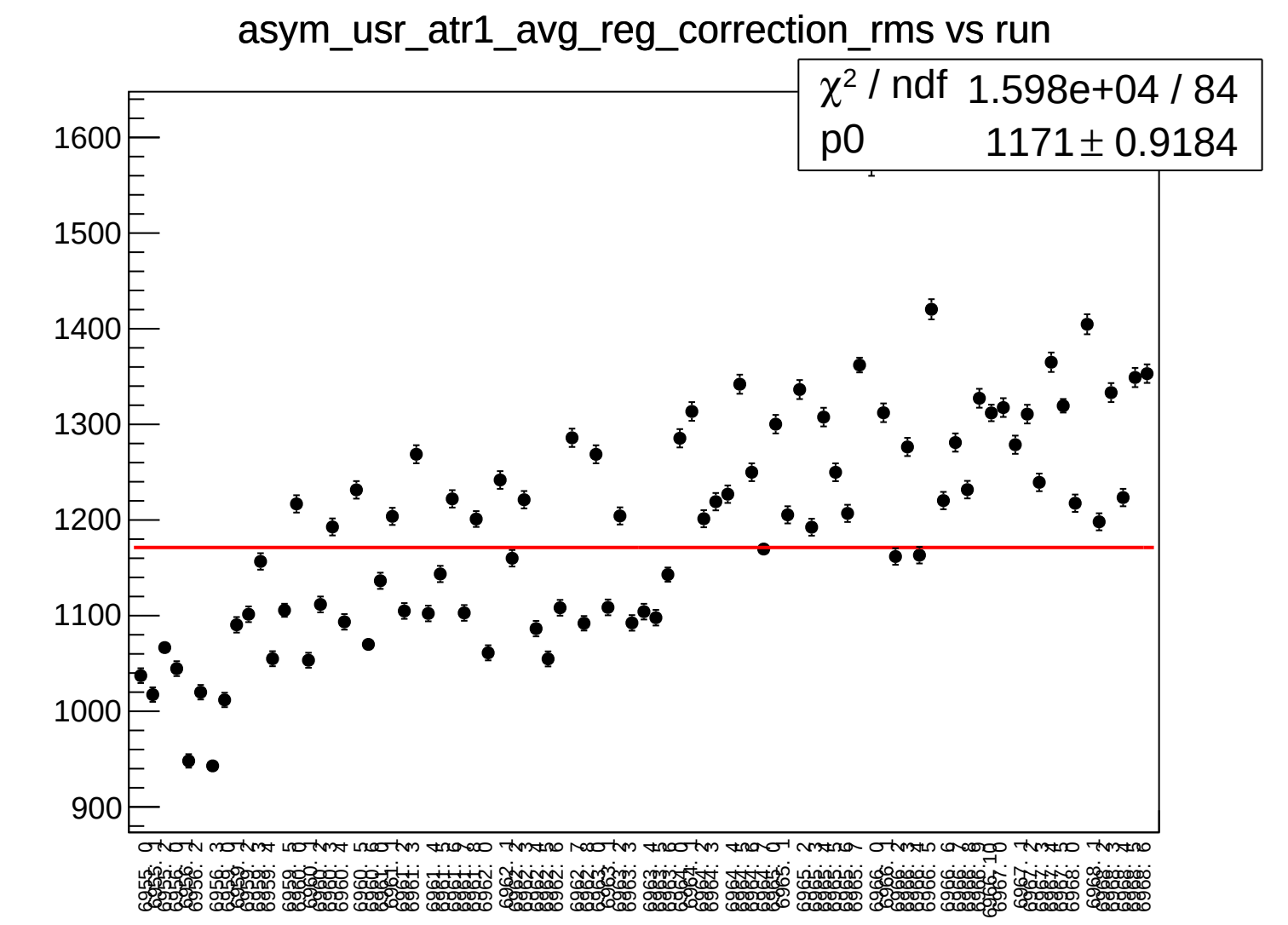

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 87.12 / 84
p0 −2535 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 1576
Std Dev 0
2
1
0
−1
−2

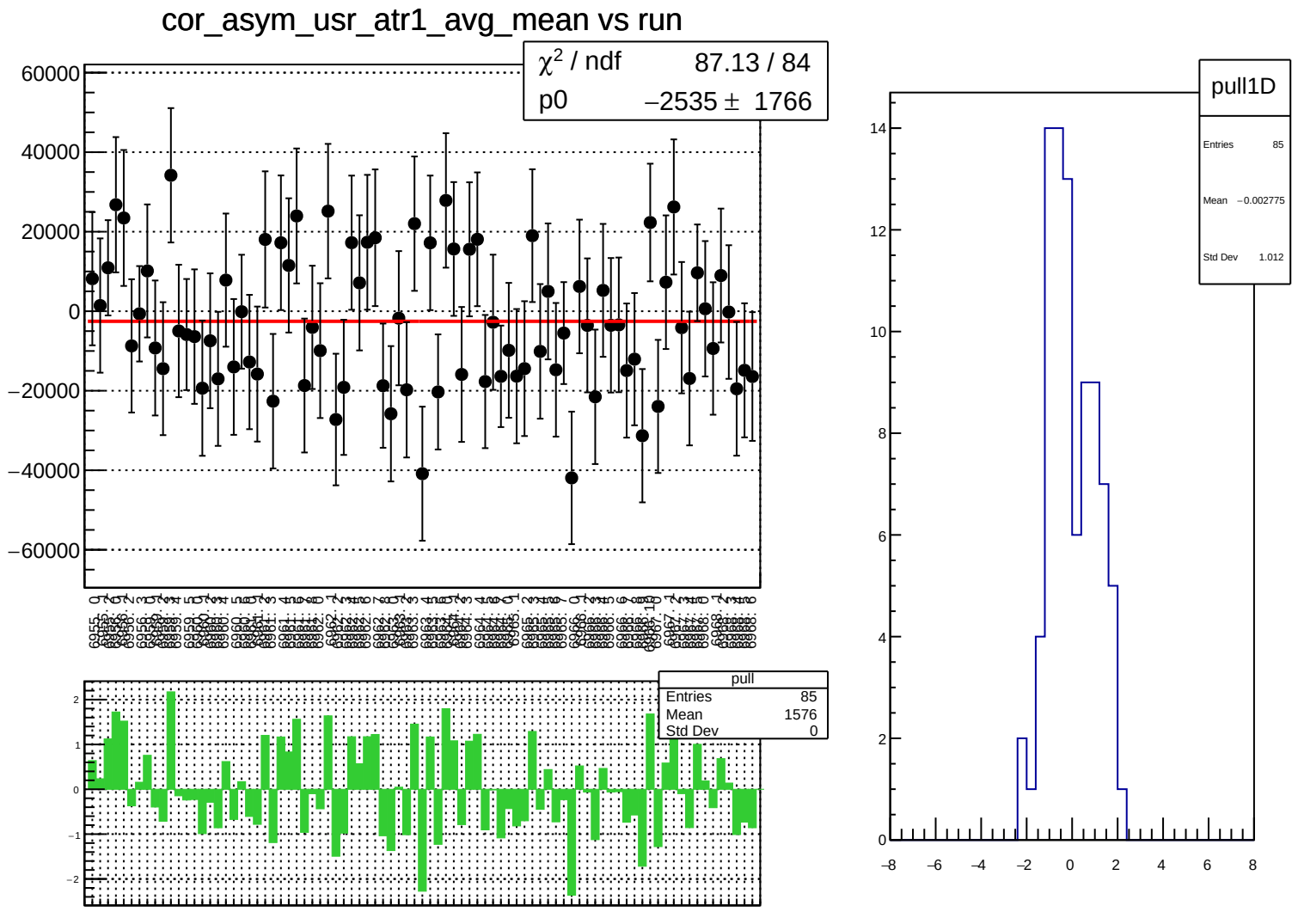

pull1D
Entries 85
Mean −0.002775
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

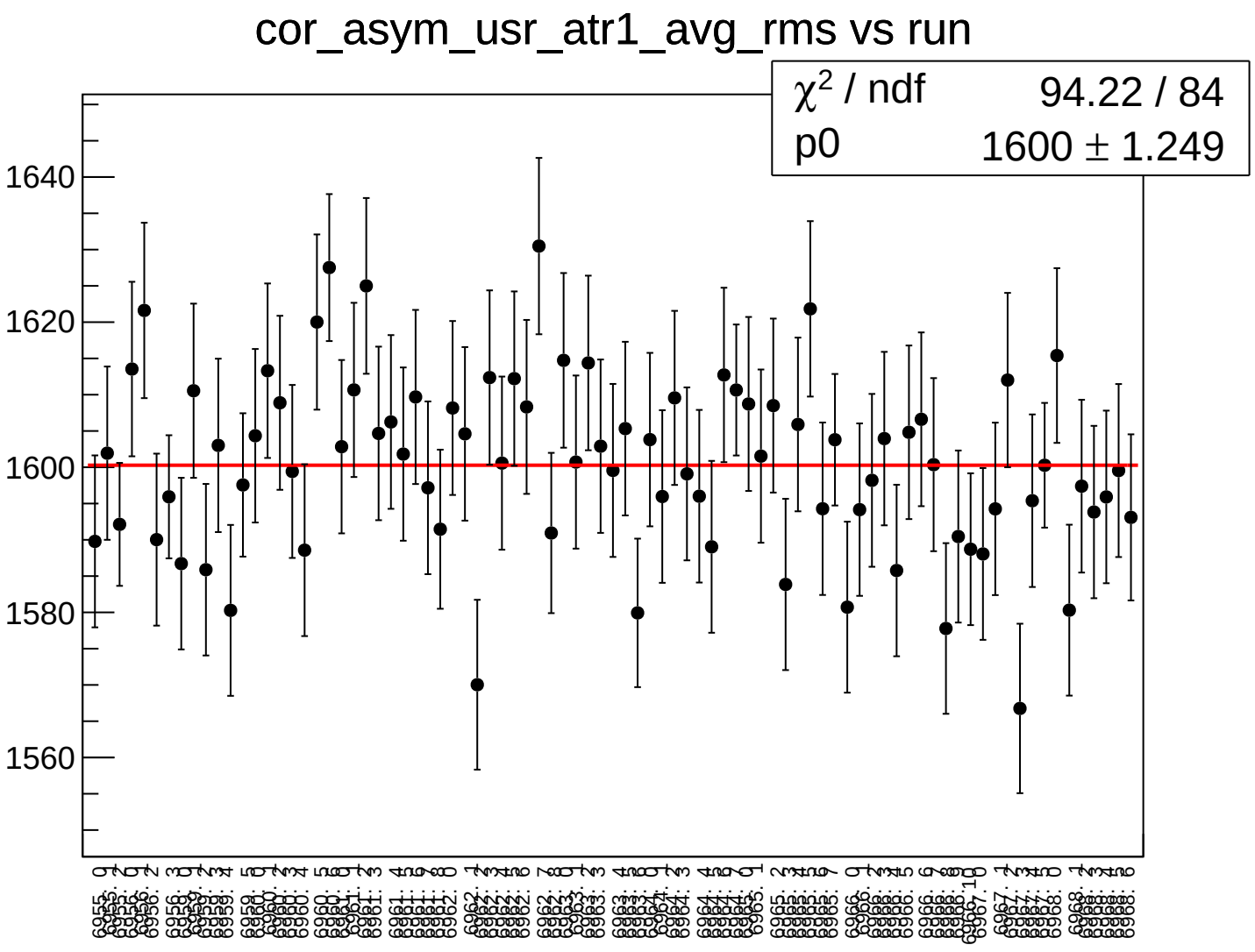

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 94.22 / 84
p0 1600 ± 1.249
1640
1620
1600
1580
1560

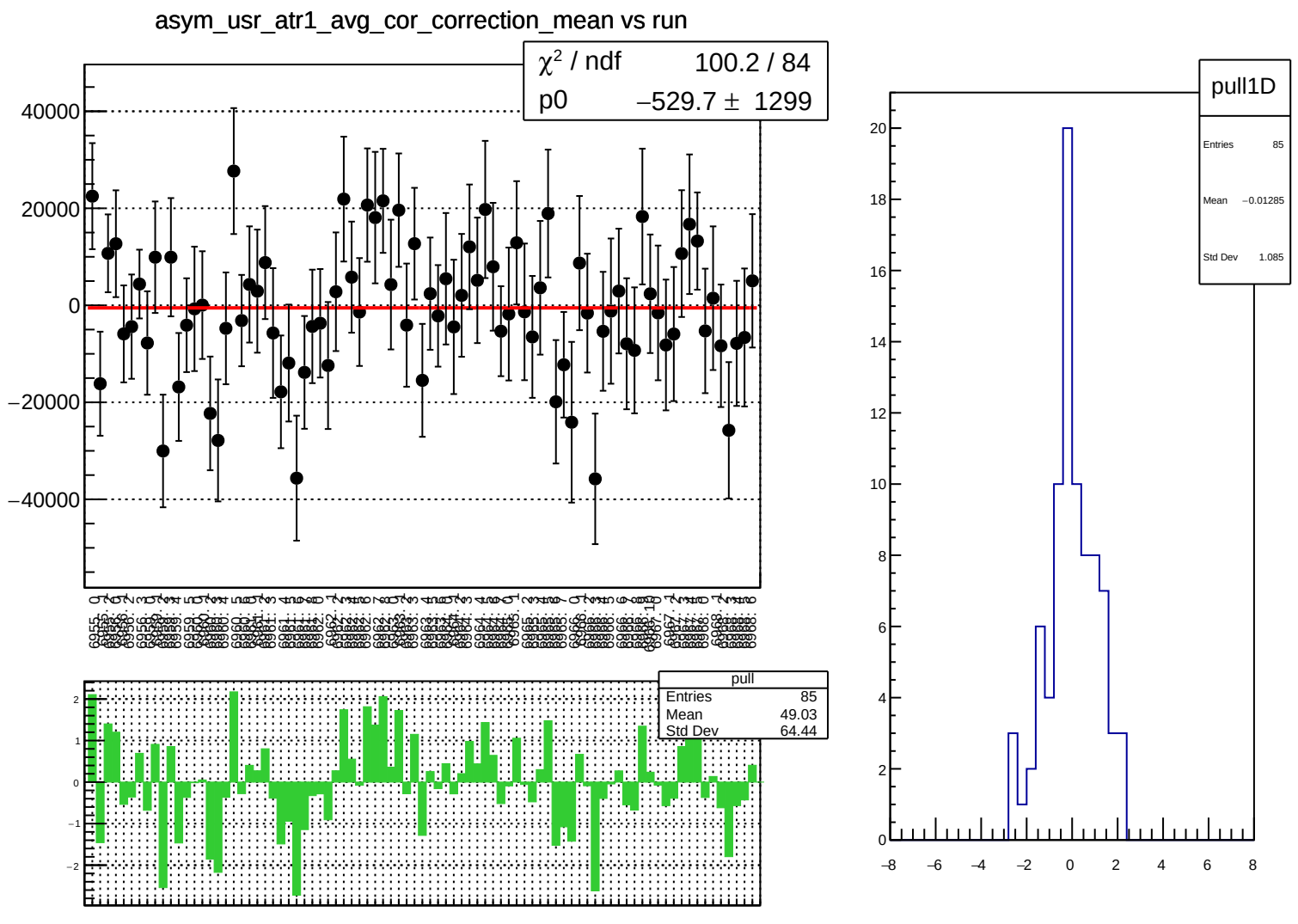

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 100.2 / 84
p0 −529.6 ± 1299
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 48.95
Std Dev 64.44
2
1
0
−1
−2

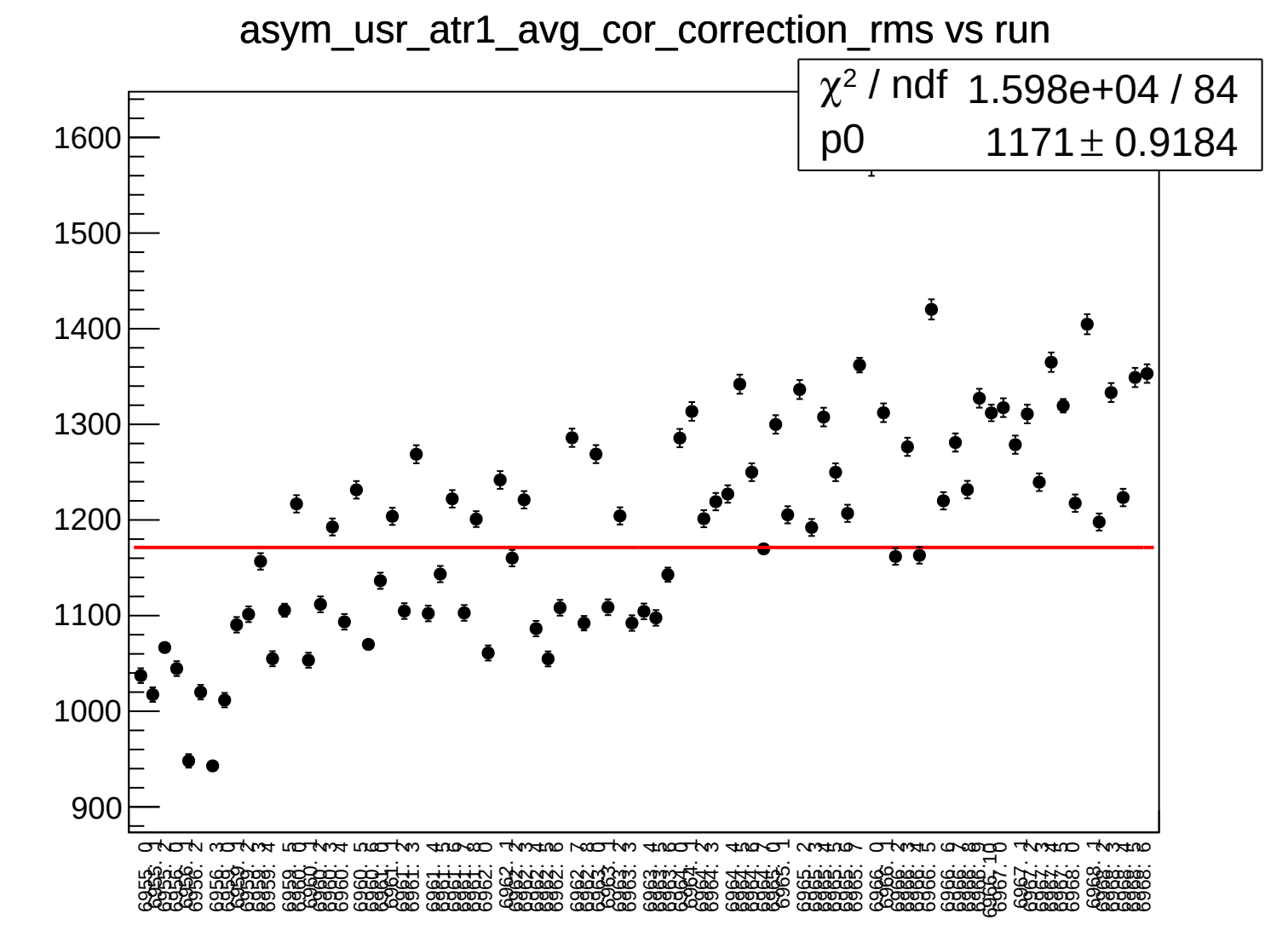

pull1D
Entries 85
Mean −0.01286
Std Dev 1.085
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

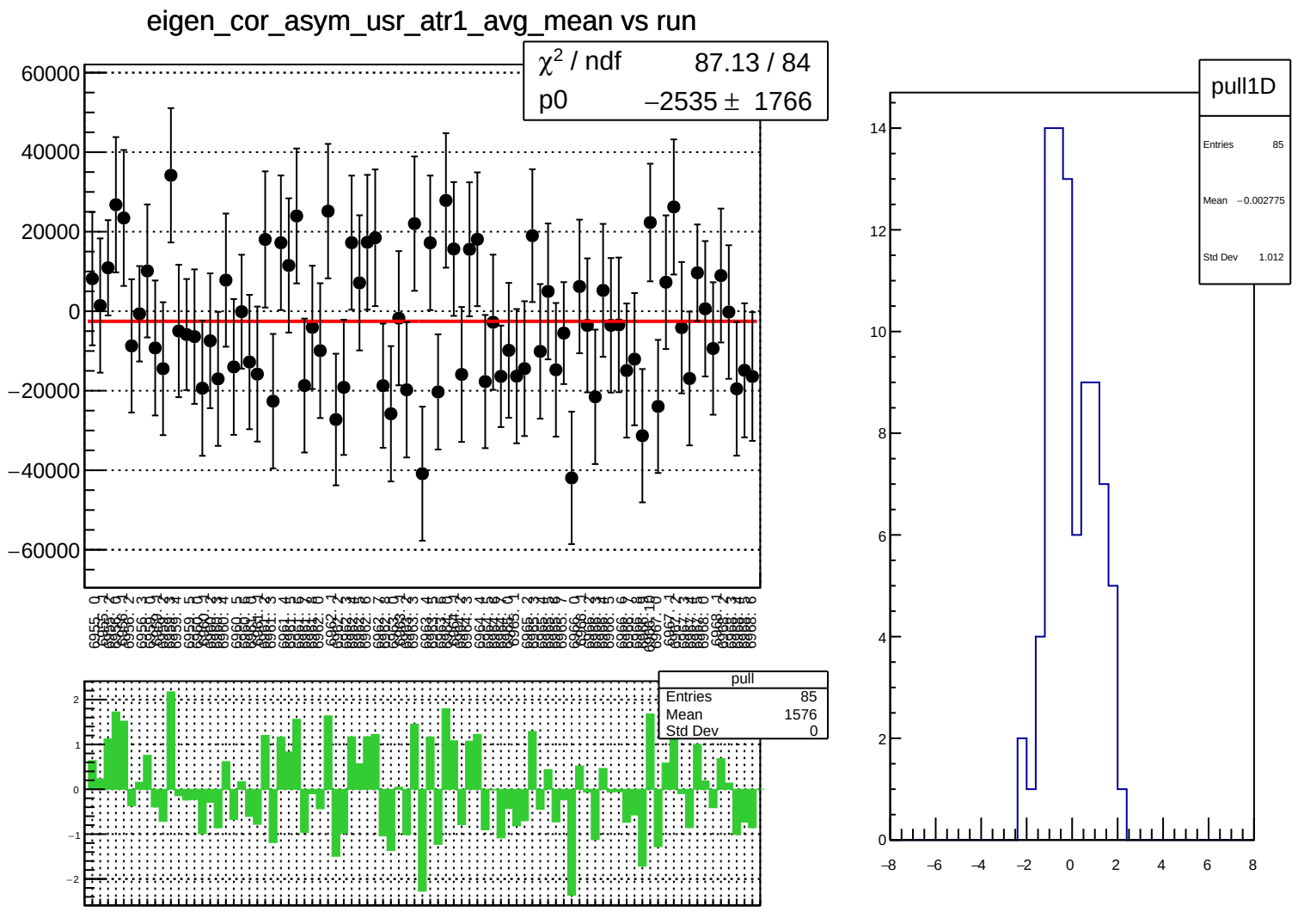

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.598e+04 / 84
p0 1171 ± 0.9184
1600
1500
1400
1300
1200
1100
1000
900

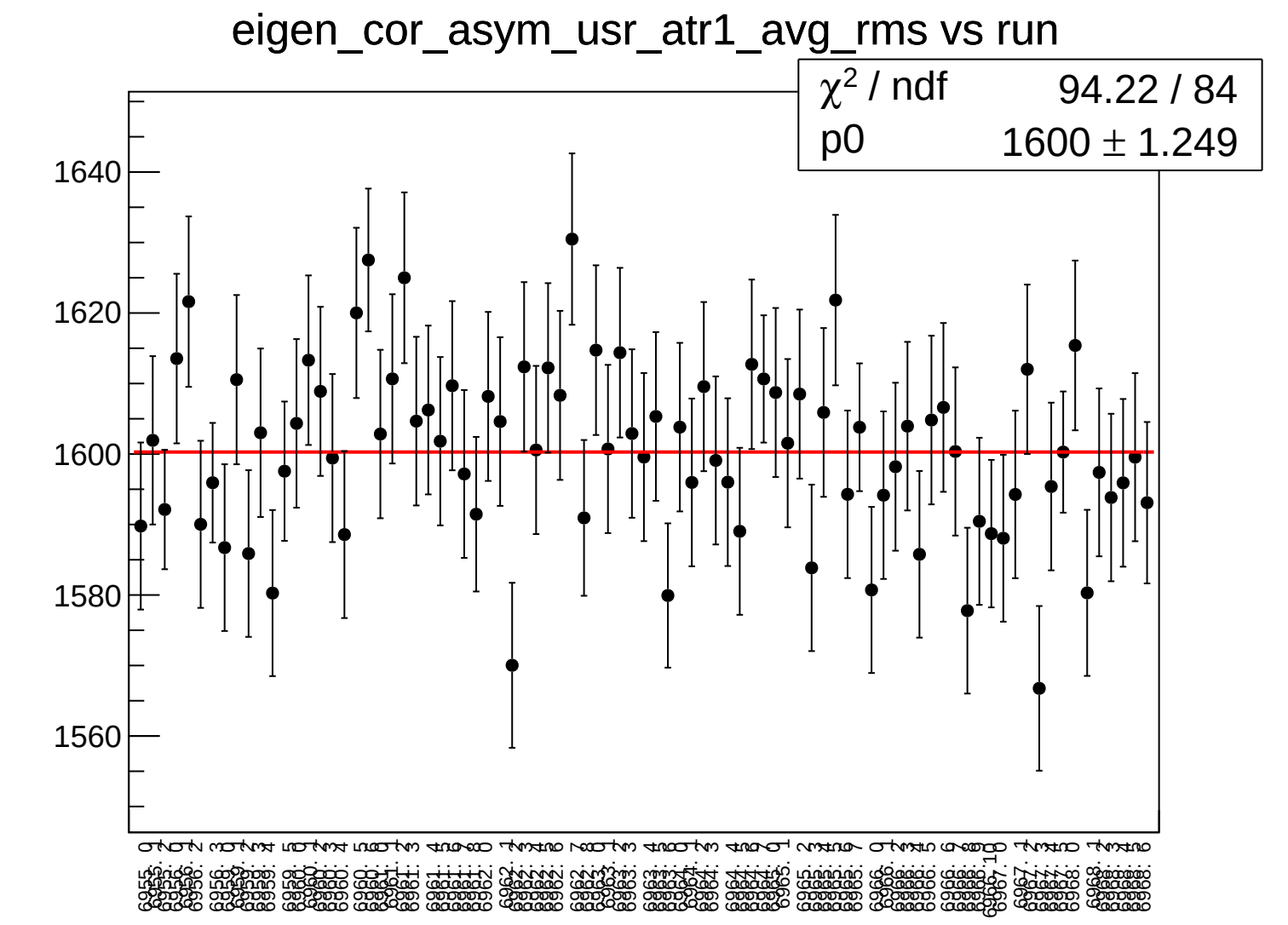

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 87.13 / 84
p0 −2535 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 1576
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.002775
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

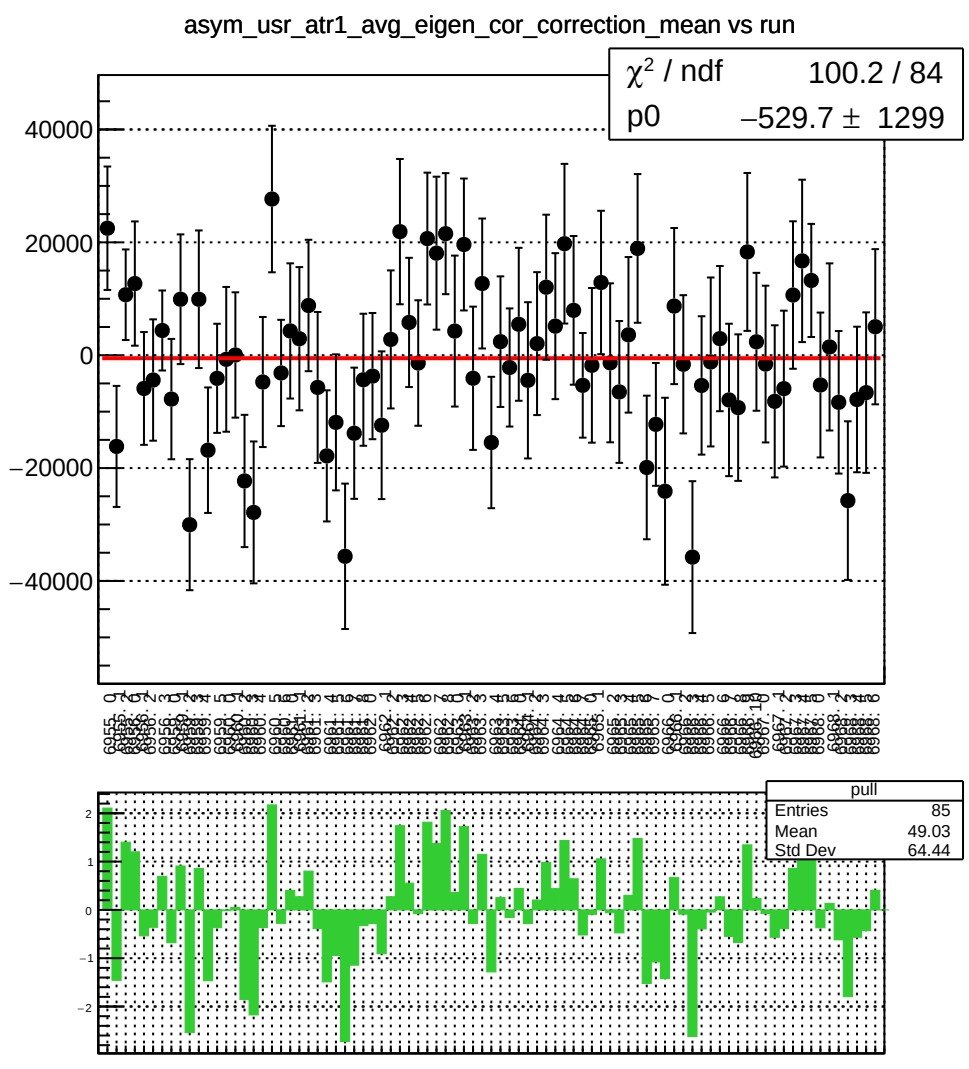

cor_asym_usr_atr1_avg_rms vs run
$\chi^2$ / ndf 94.22 / 84
p0 1600 ± 1.249
1640
1620
1600
1580
1560

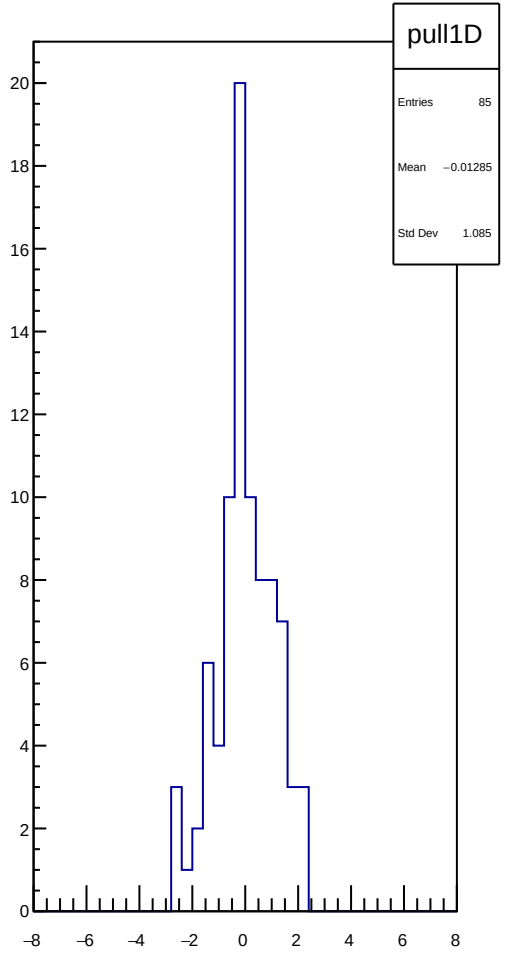

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 100.2 / 84
p0 −529.7 ± 1299
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 49.03
Std Dev 64.44
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01285
Std Dev 1.085
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

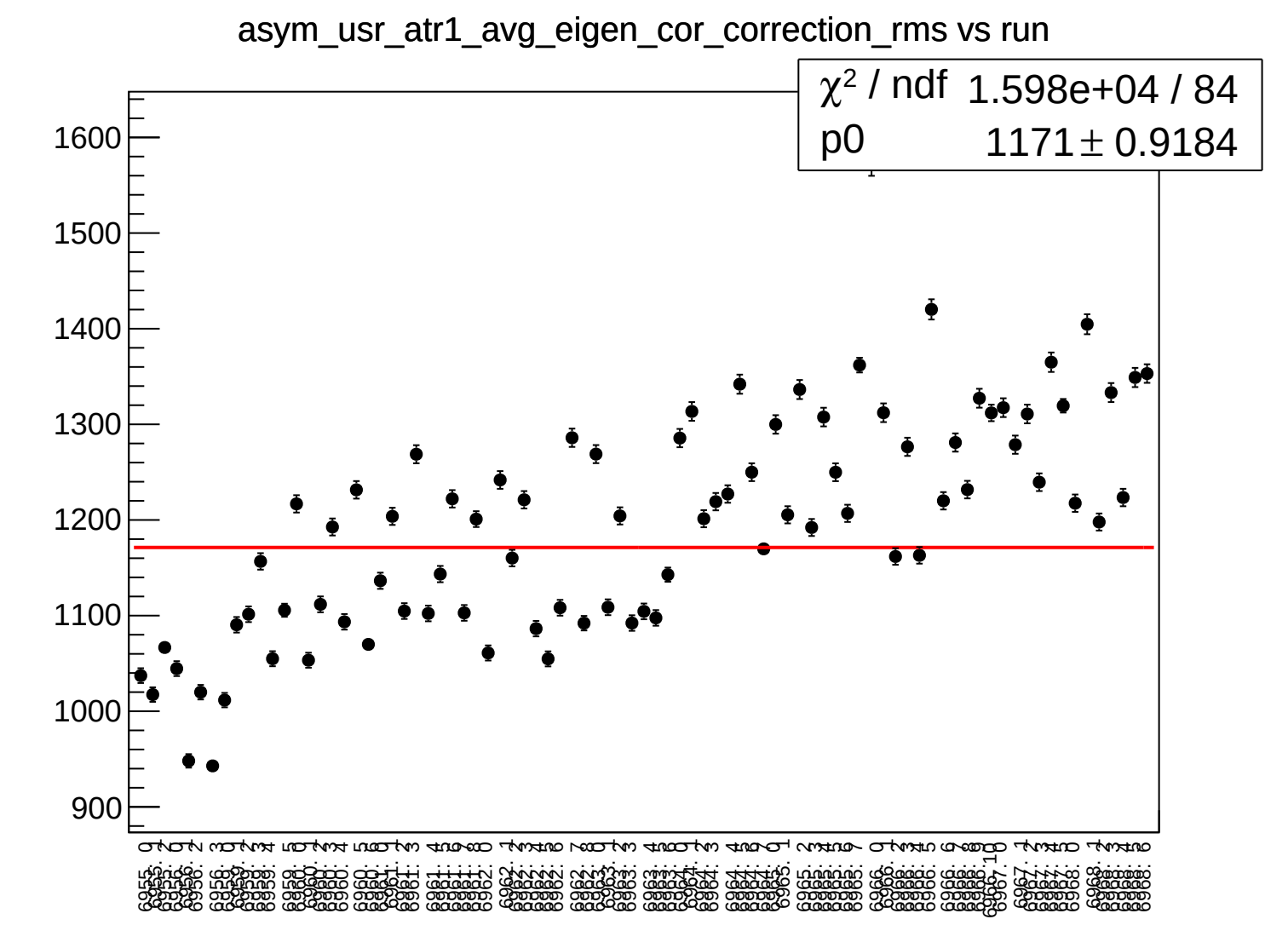

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.598e+04 / 84
p0 1171 ± 0.9184
1600
1500
1400
1300
1200
1100
1000
900

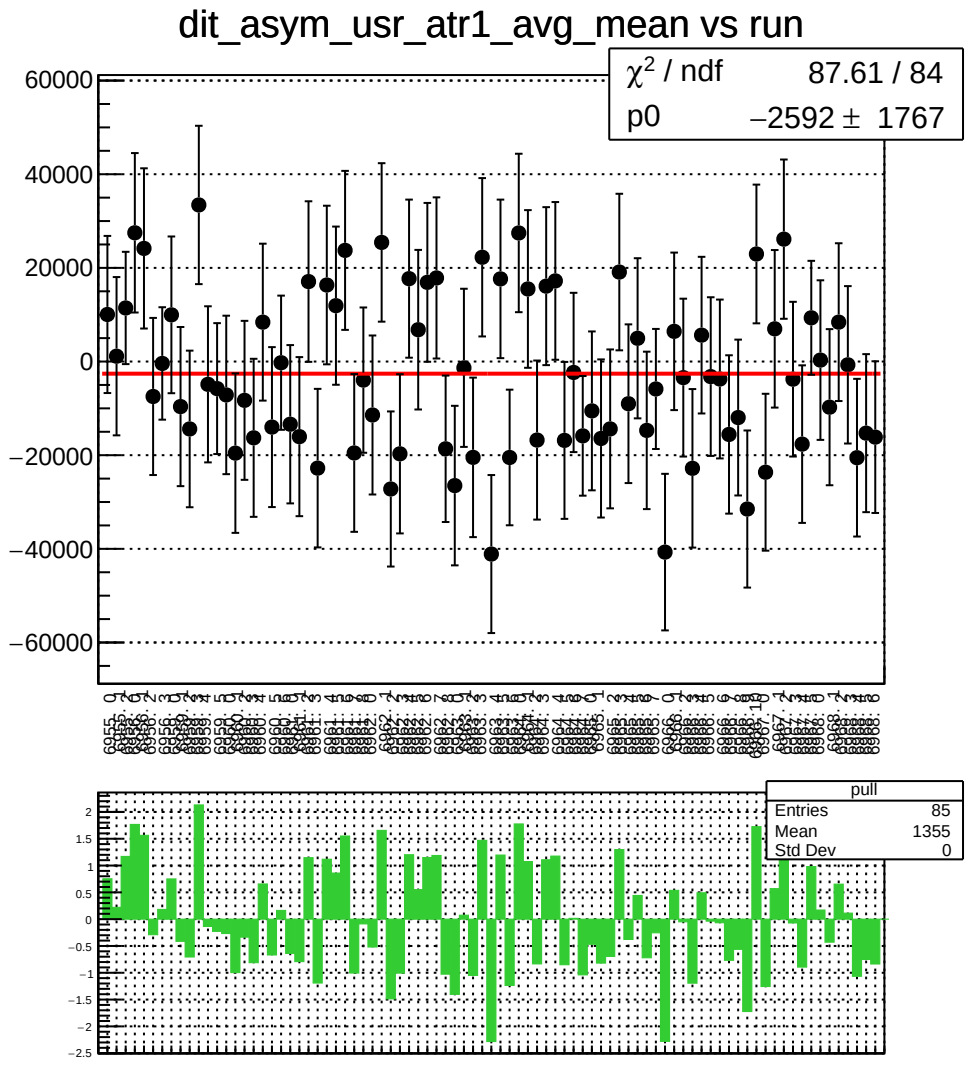

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 87.13 / 84
p0 −2535 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 1576
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.002775
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

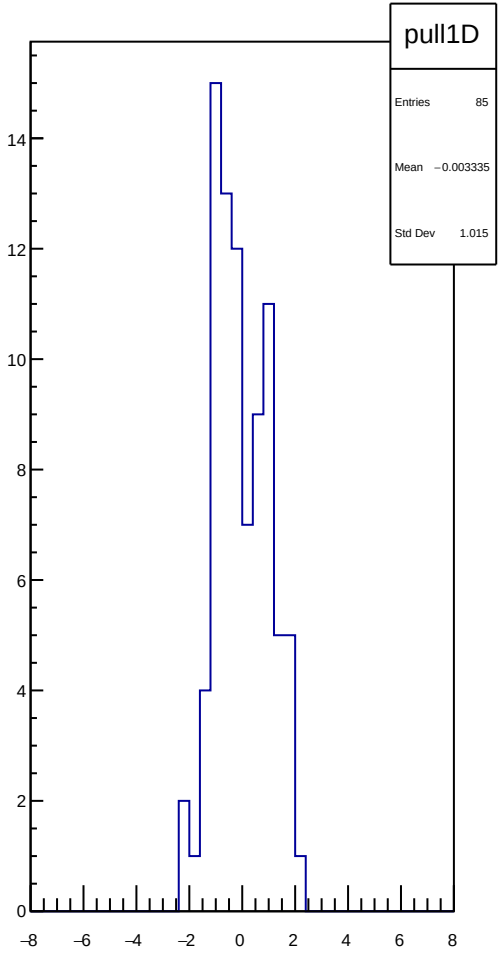

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 94.22 / 84
p0 1600 ± 1.249
1640
1620
1600
1580
1560

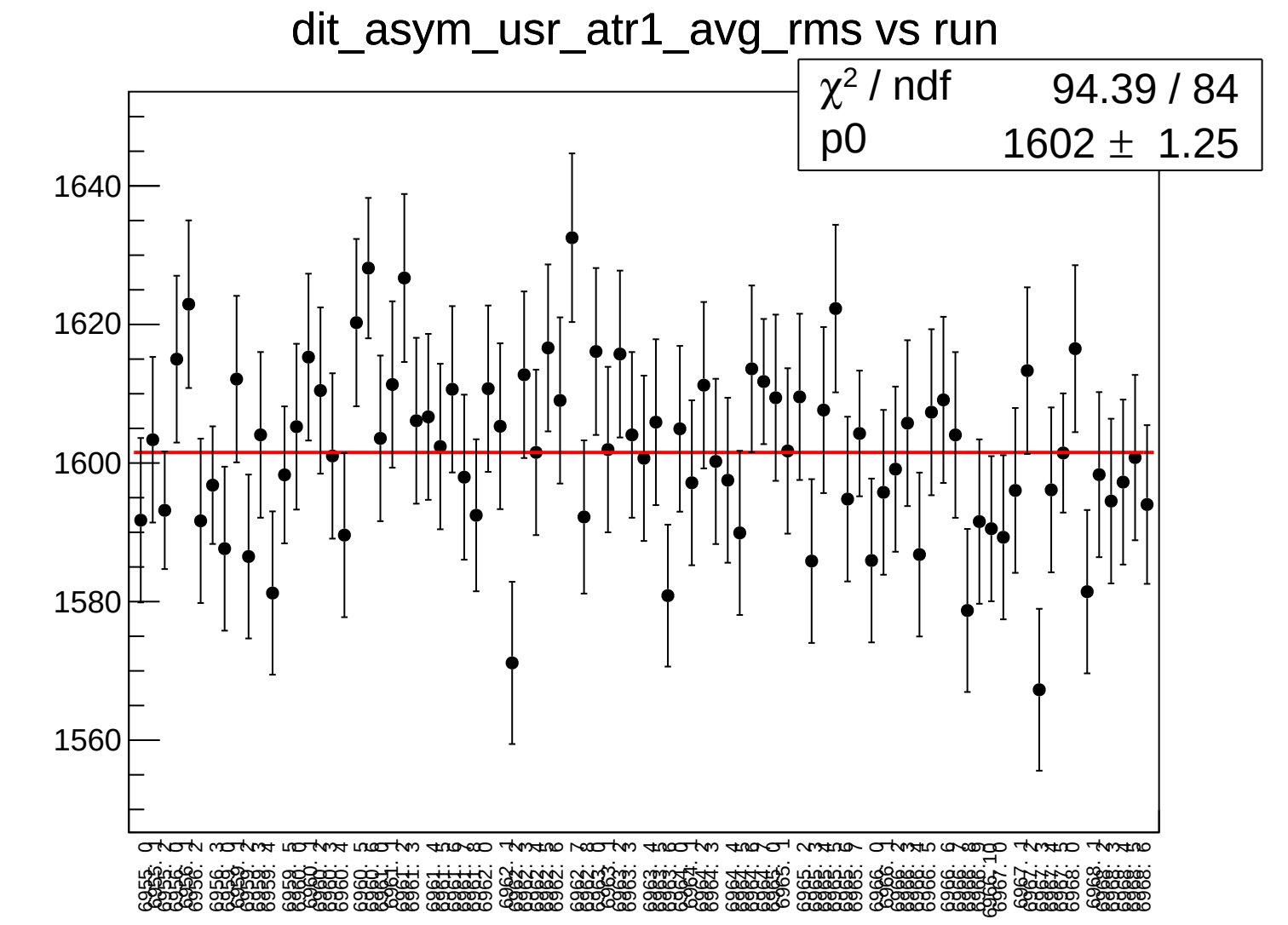

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.2 / 84
p0 −529.7 ± 1299
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 49.03
Std Dev 64.44
2
1
0
−1
−2

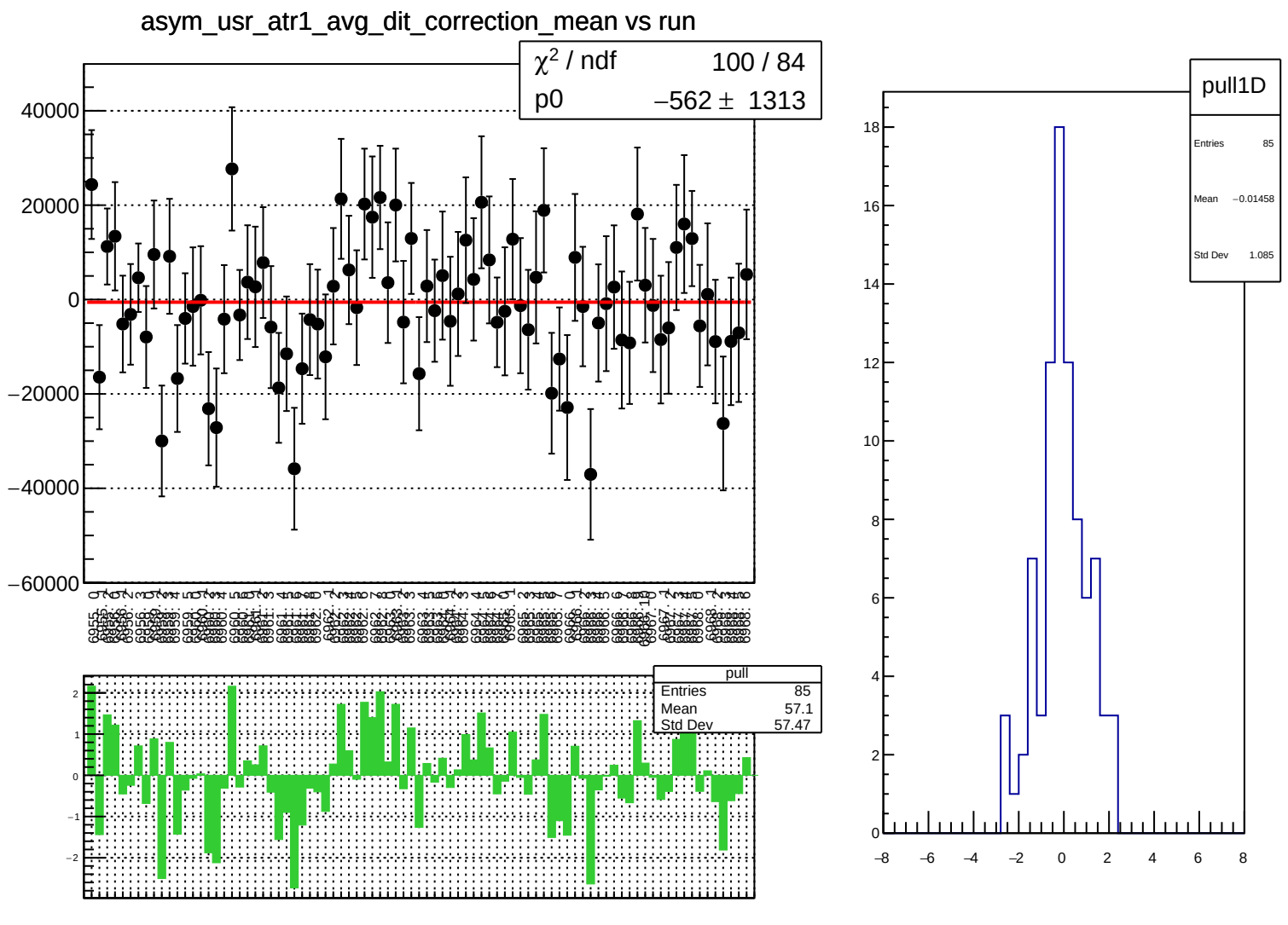

pull1D
Entries 85
Mean −0.01285
Std Dev 1.085
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

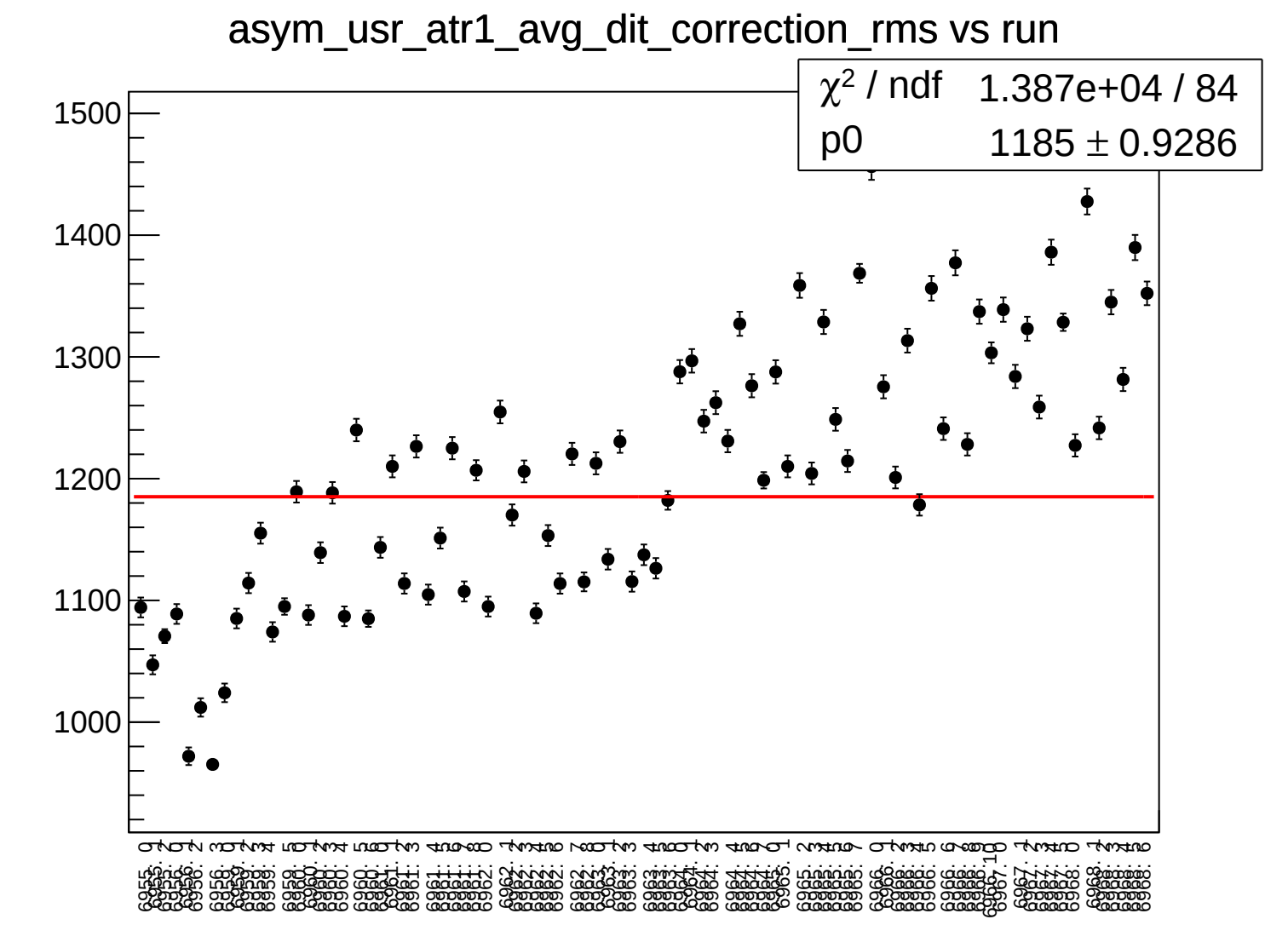

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.598e+04 / 84
p0 1171 ± 0.9184
1600
1500
1400
1300
1200
1100
1000
900

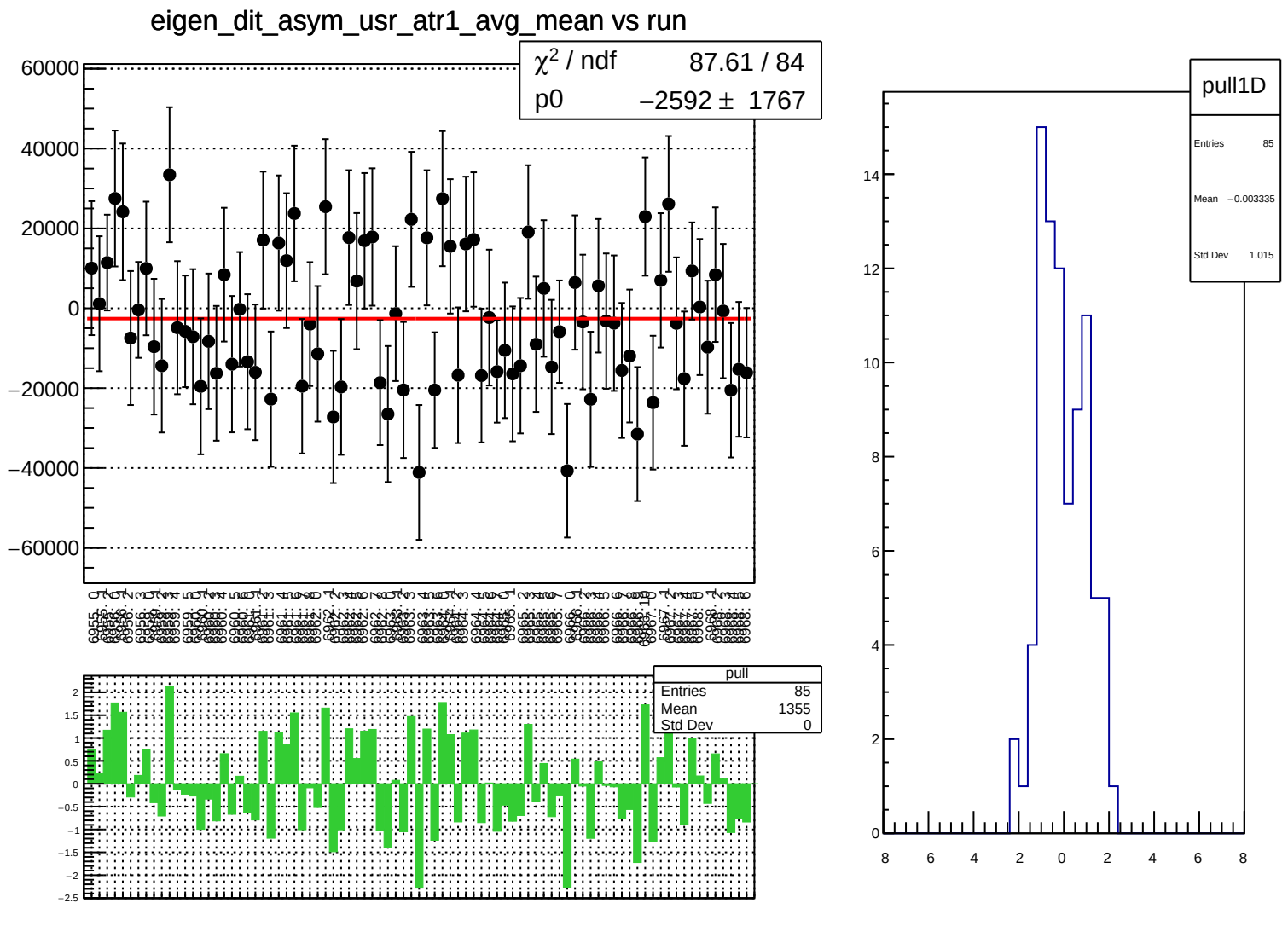

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 87.61 / 84
p0 −2592 ± 1767
pull
Entries 85
Mean 1355
Std Dev 0

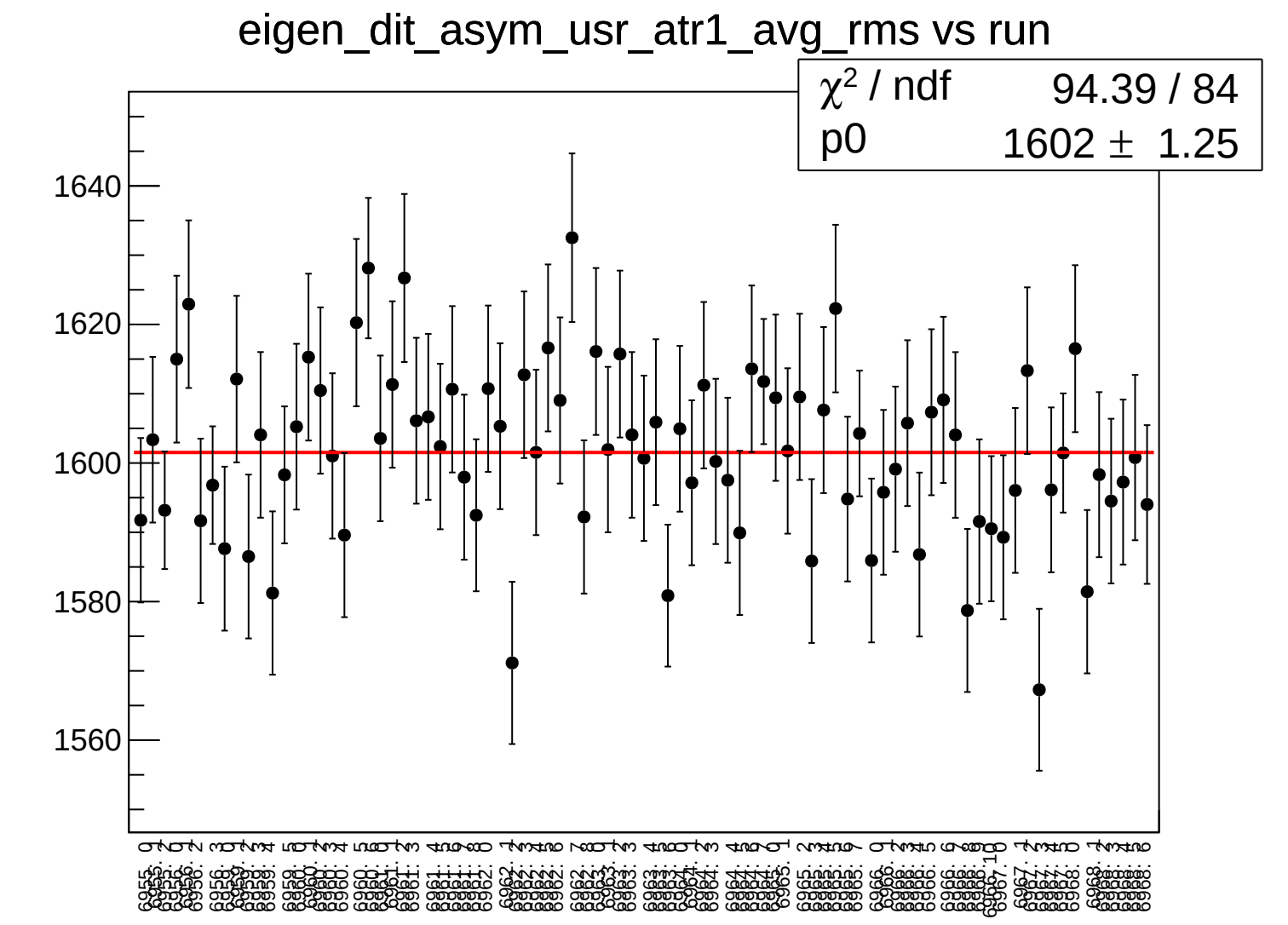

pull1D
Entries 85
Mean −0.003335
Std Dev 1.015

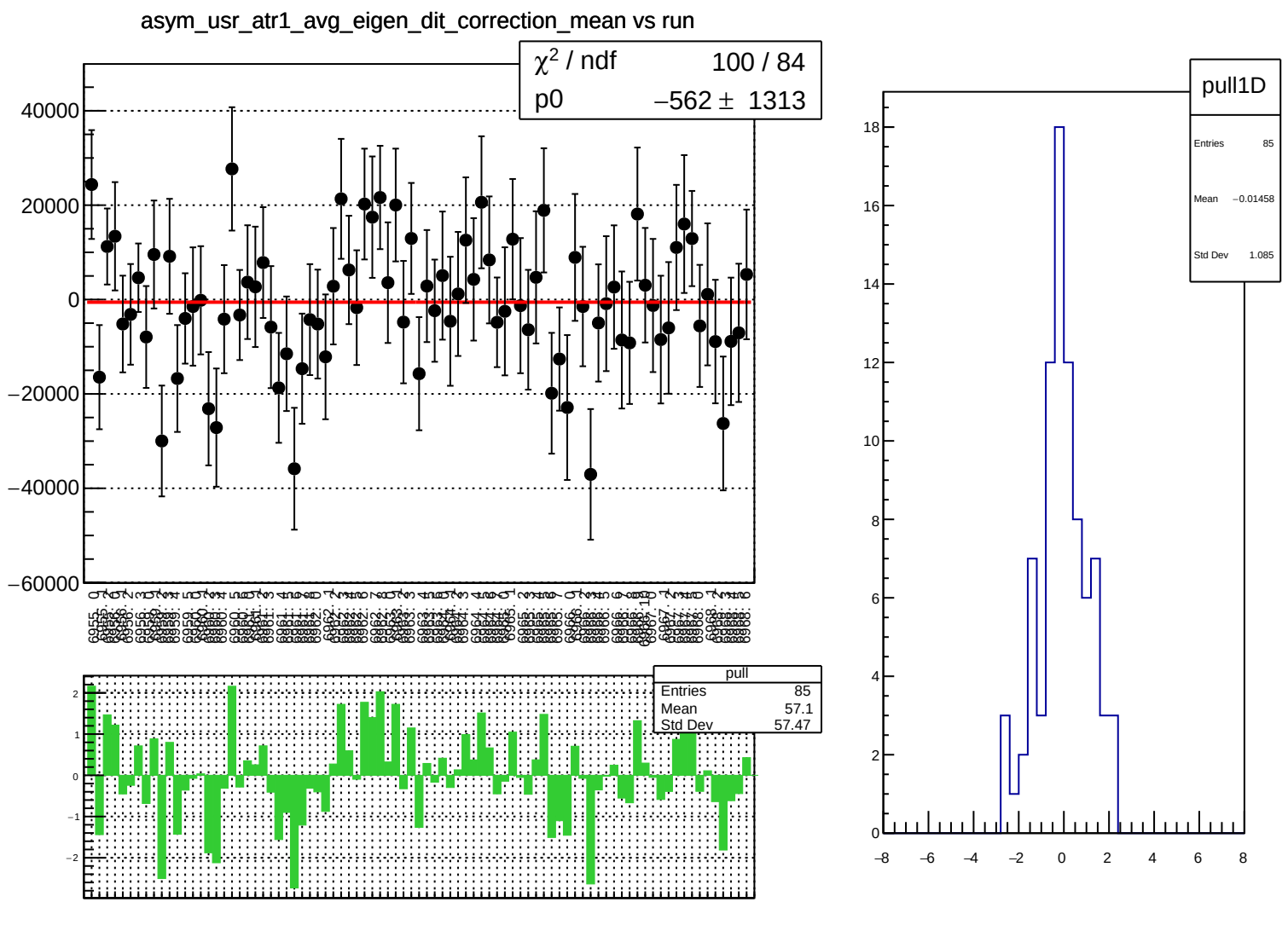

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 94.39 / 84
p0 1602 ± 1.25
1640
1620
1600
1580
1560

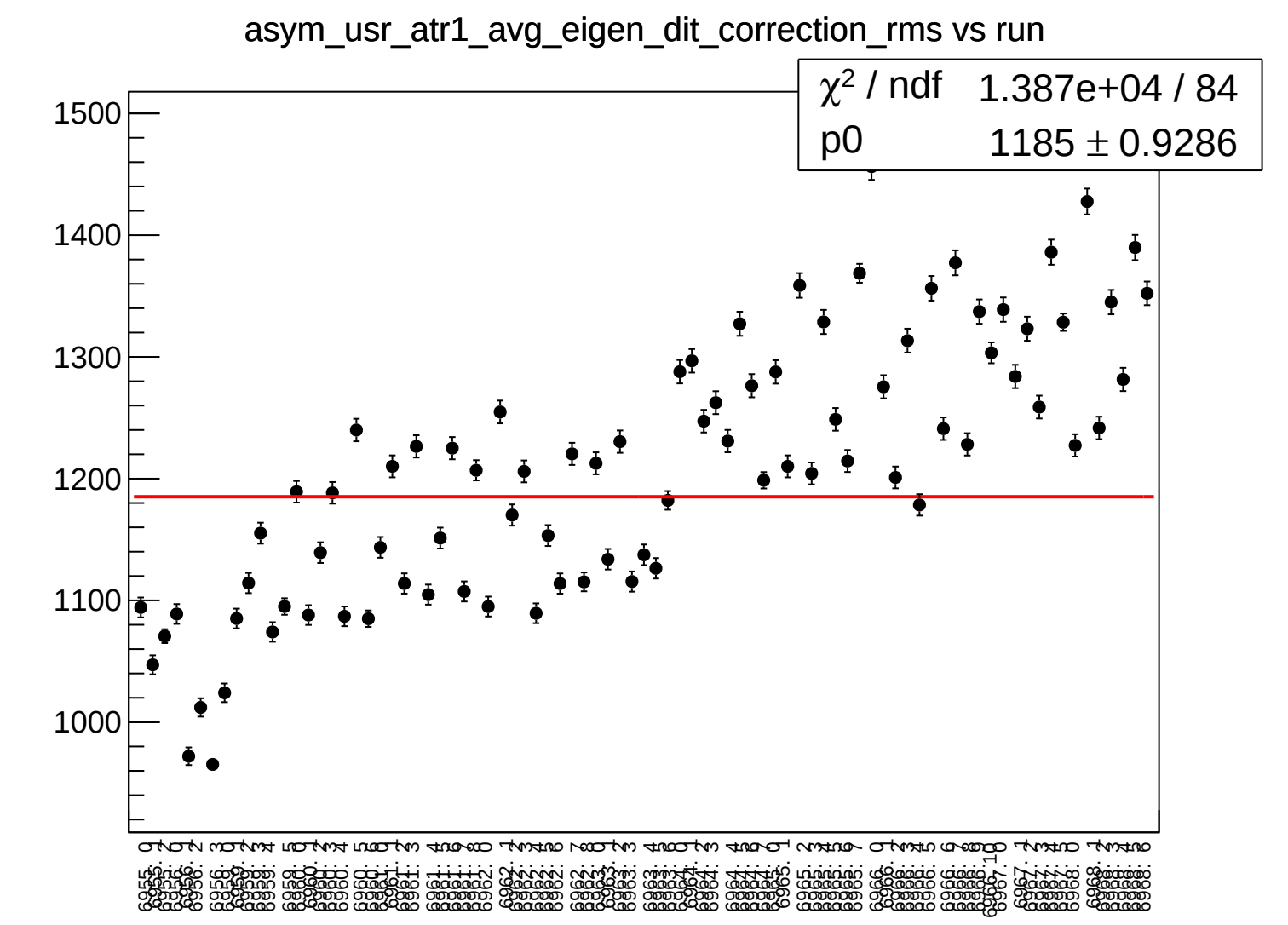

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 100 / 84
p0 −562 ± 1313
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 57.1
Std Dev 57.47
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01458
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

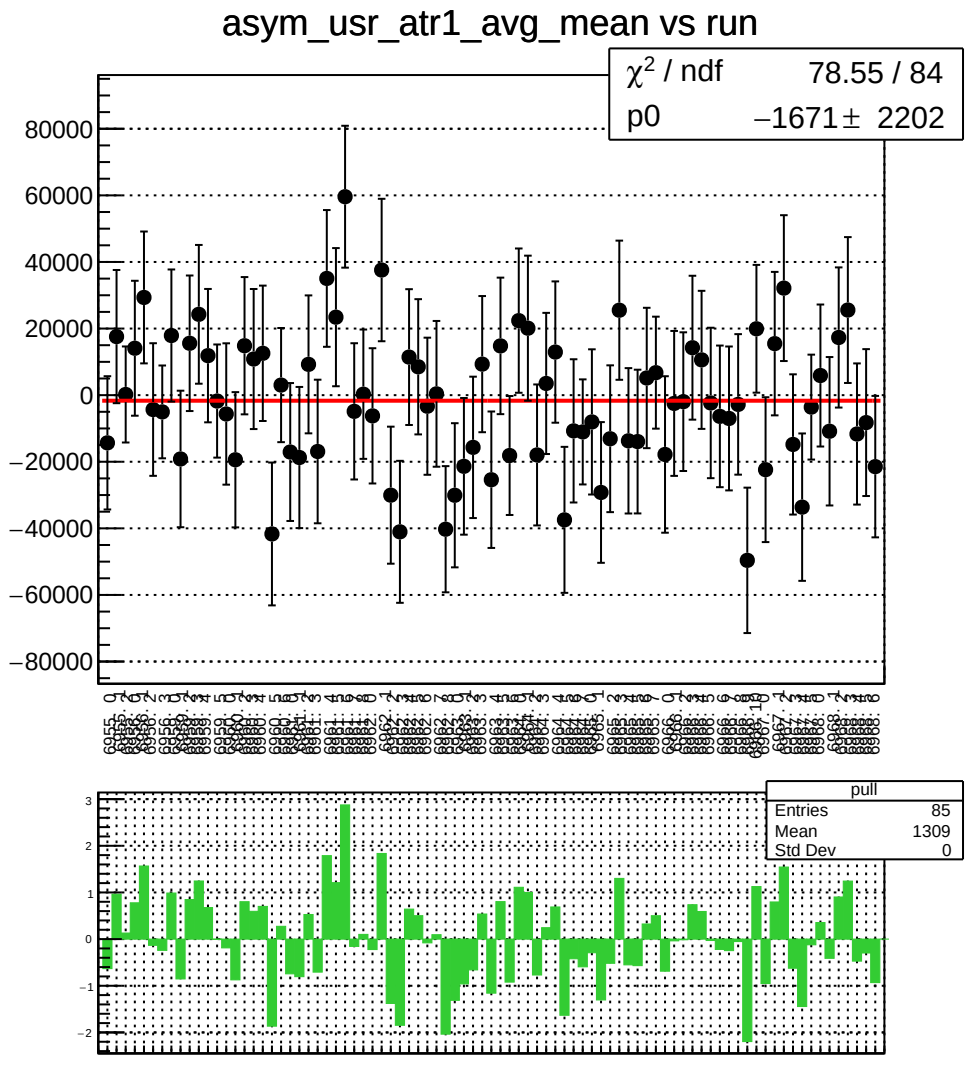

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1.387e+04 / 84
p0 1185 ± 0.9286
1500
1400
1300
1200
1100
1000

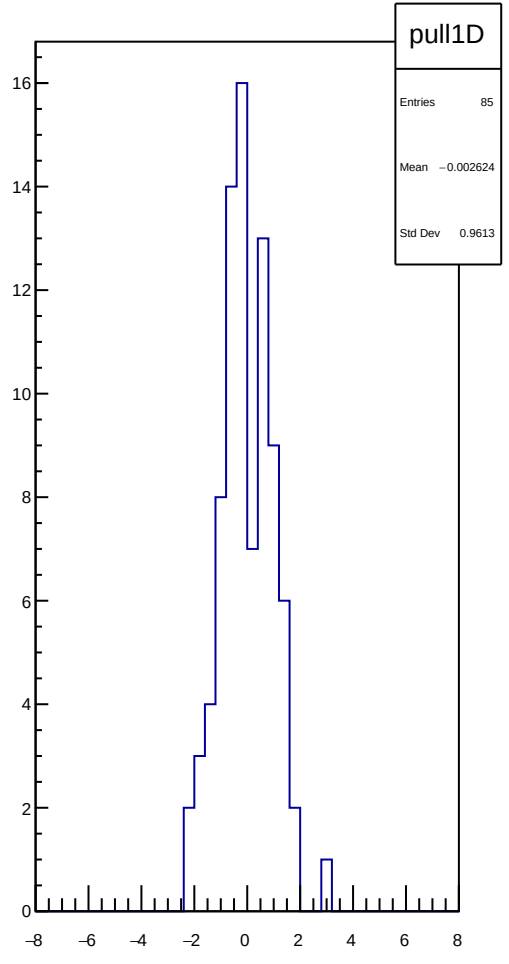

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 87.61 / 84
p0 −2592 ± 1767
pull
Entries 85
Mean 1355
Std Dev 0
pull1D
Entries 85
Mean −0.003335
Std Dev 1.015

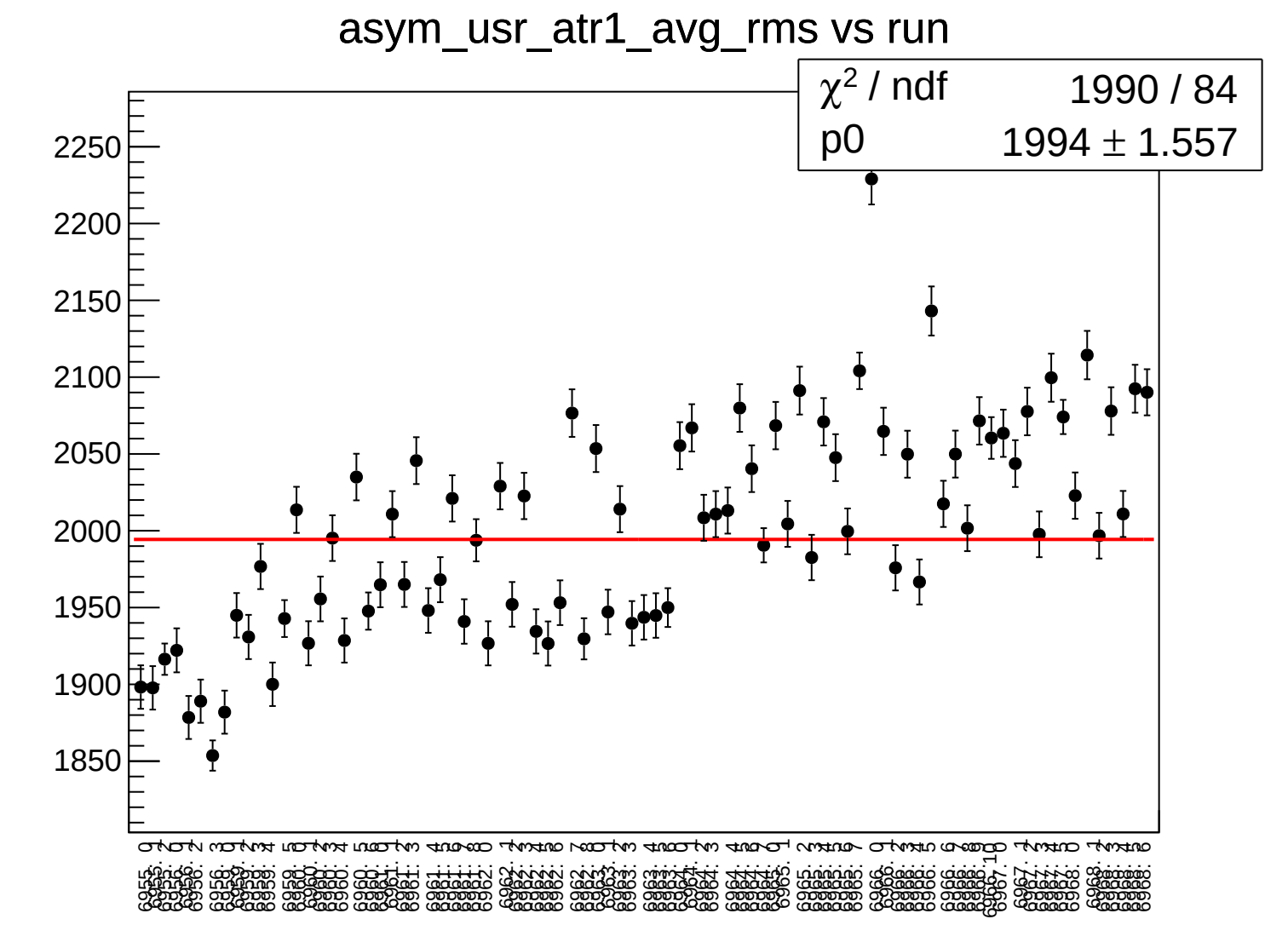

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 94.39 / 84
p0 1602 ± 1.25
1640
1620
1600
1580
1560

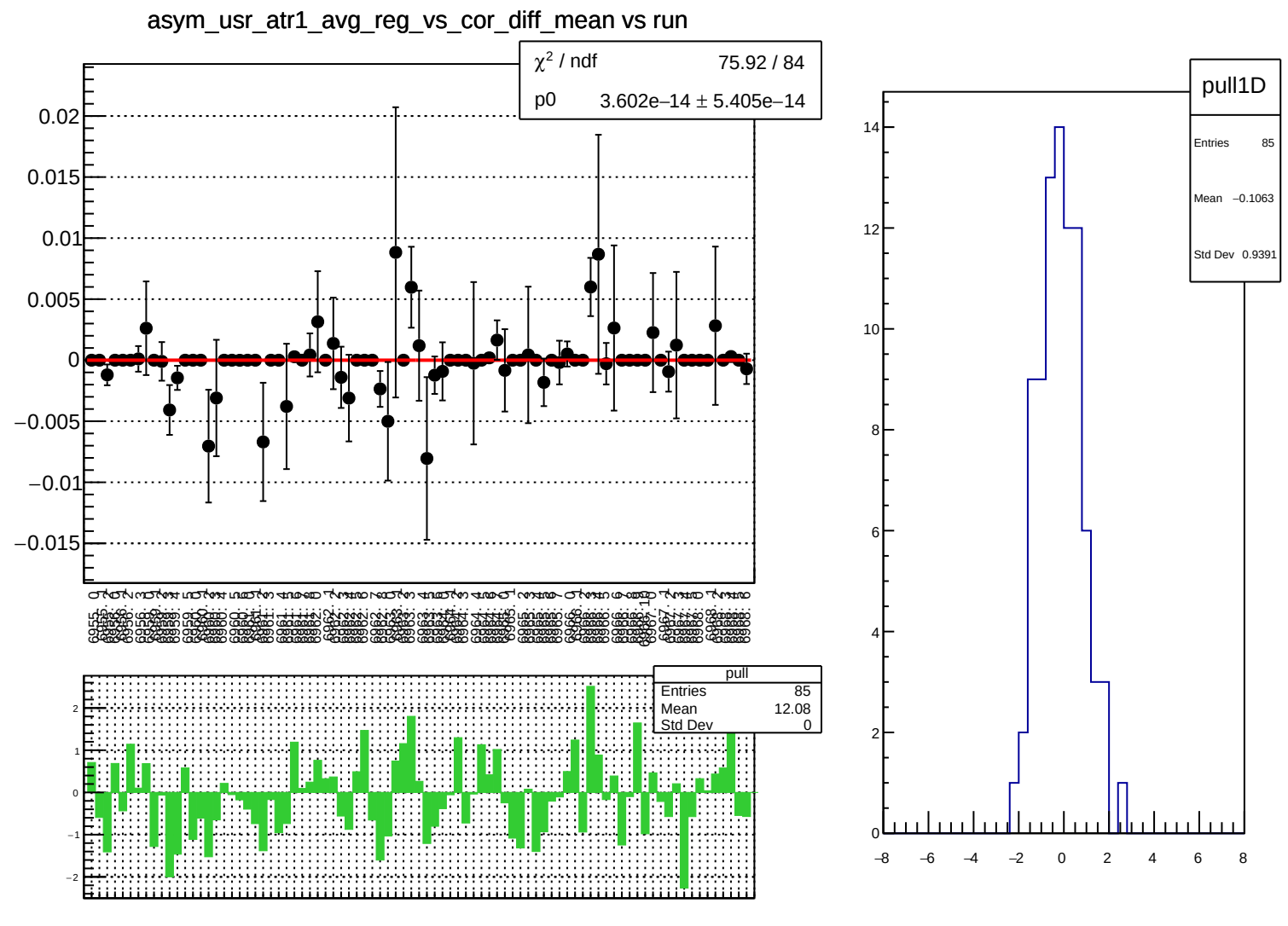

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 100 / 84
p0 −562 ± 1313
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 57.1
Std Dev 57.47
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01458
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

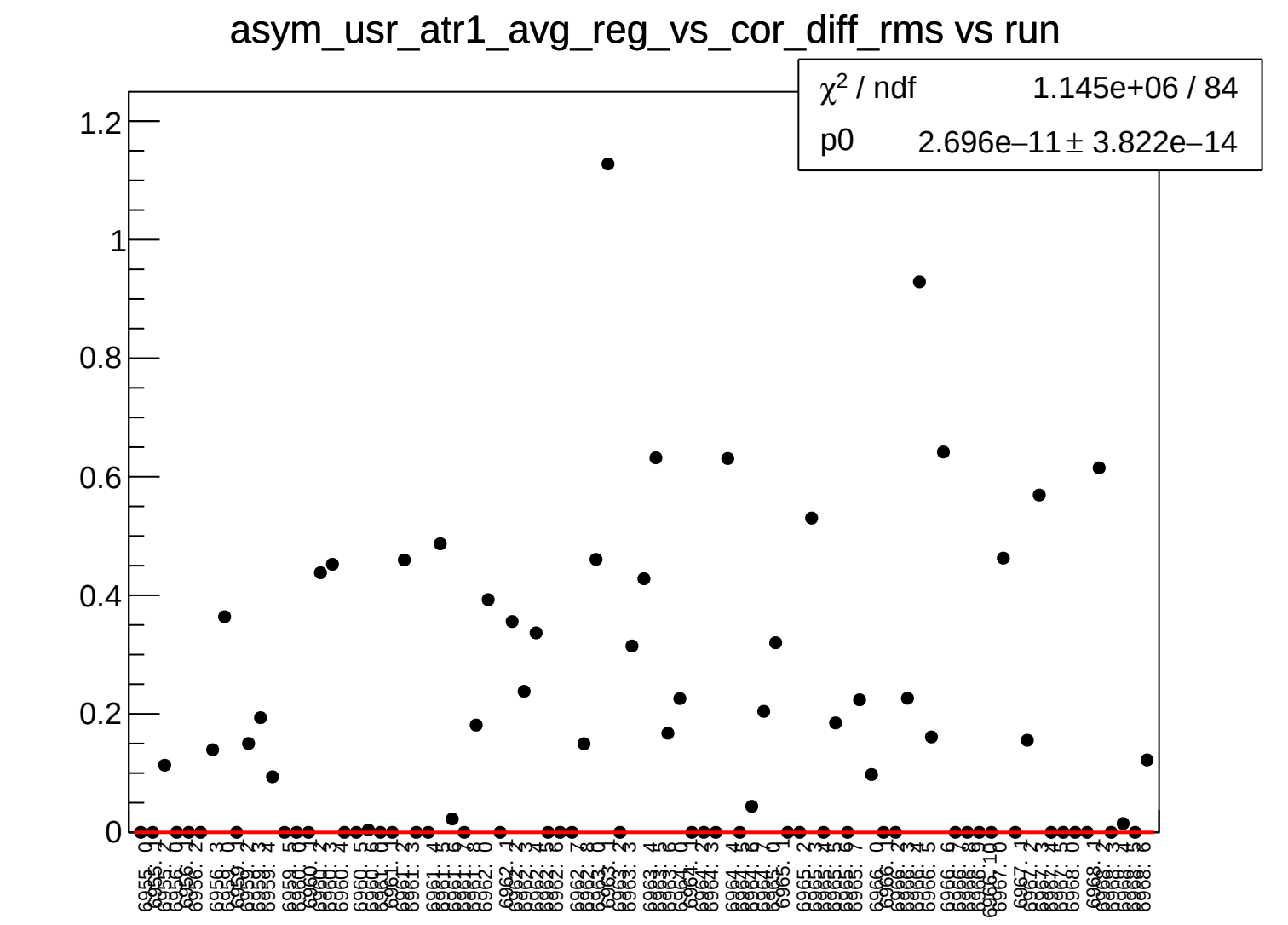

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.387e+04 / 84
p0 1185 ± 0.9286
1500
1400
1300
1200
1100
1000

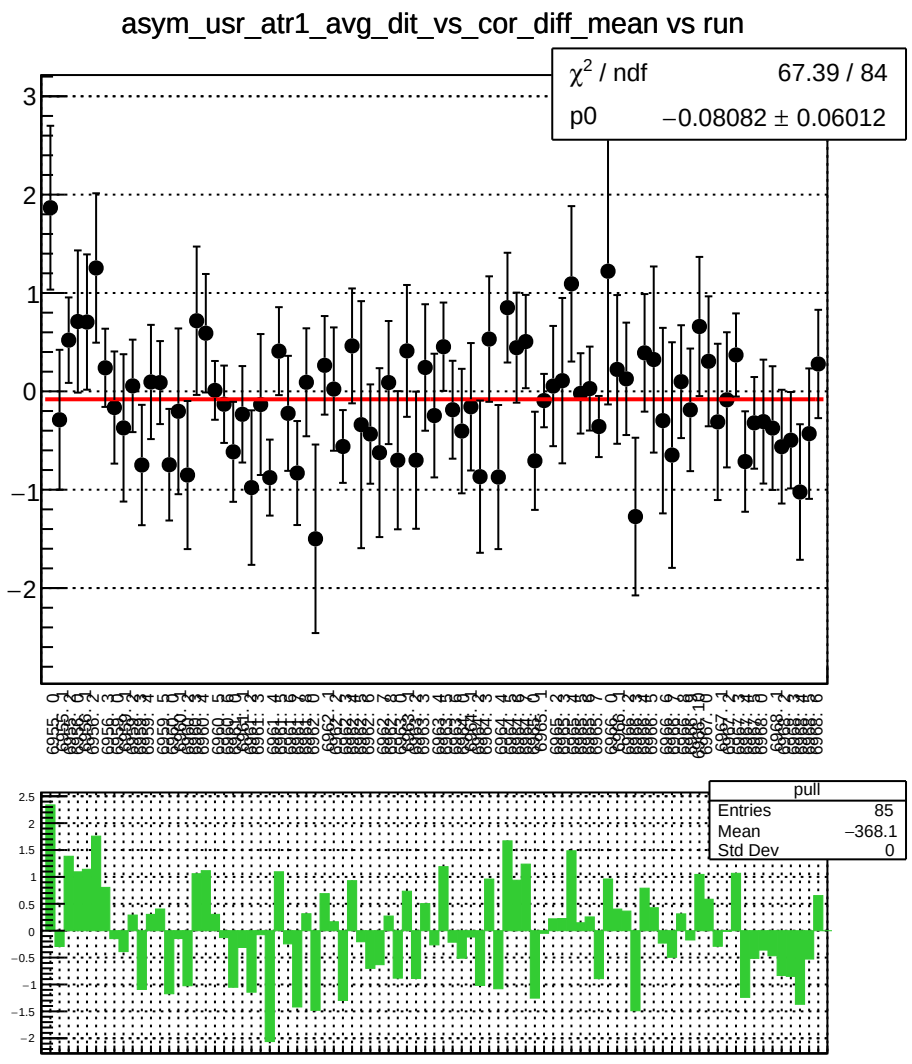

asym_usr_atr1_avg_mean vs run
χ² / ndf 78.55 / 84
p0 −1671 ± 2202
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 1309
Std Dev 0
3
2
1
0
−1
−2

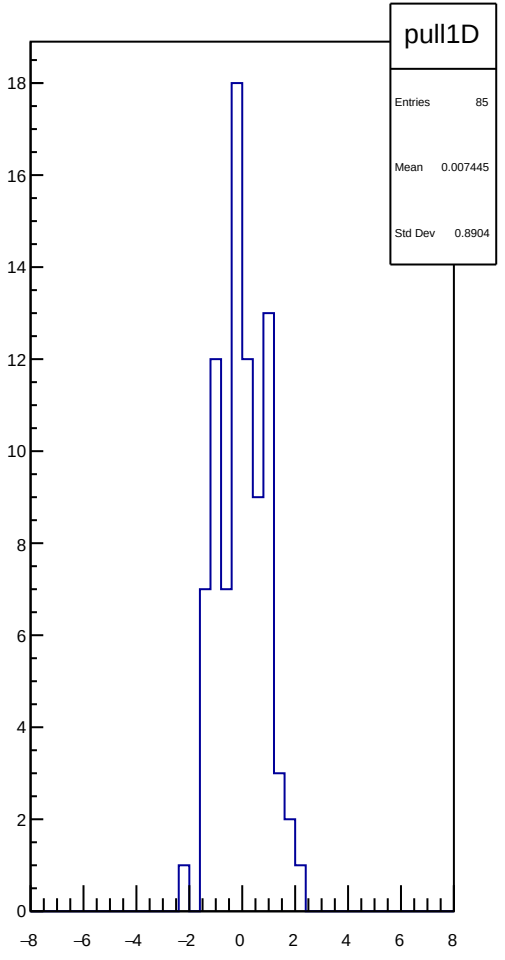

pull1D
Entries 85
Mean −0.002624
Std Dev 0.9613
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

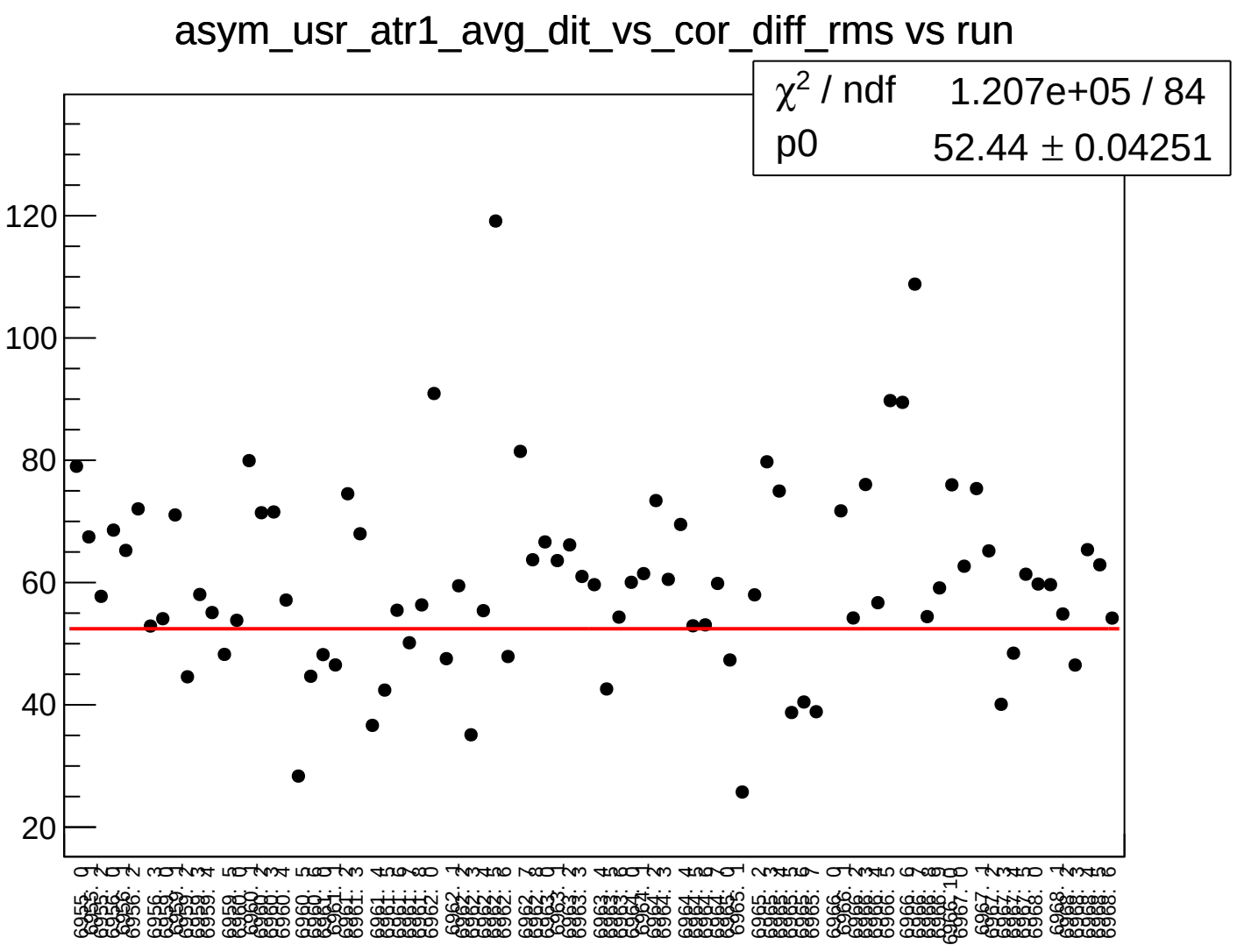

asym_usr_atr1_avg_rms vs run
χ² / ndf 1990 / 84
p0 1994 ± 1.557
2250
2200
2150
2100
2050
2000
1950
1900
1850

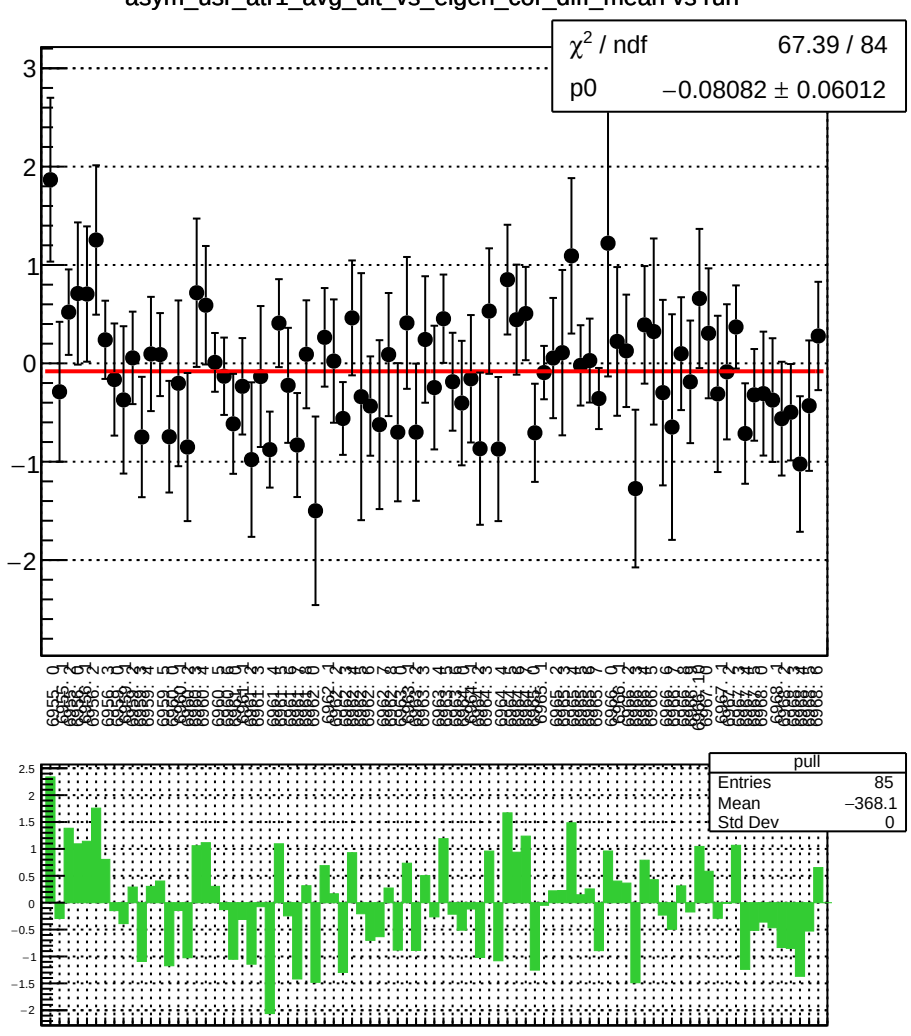

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.92 / 84
p0 3.602e−14 ± 5.405e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 85
Mean 12.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.1063
Std Dev 0.9391
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

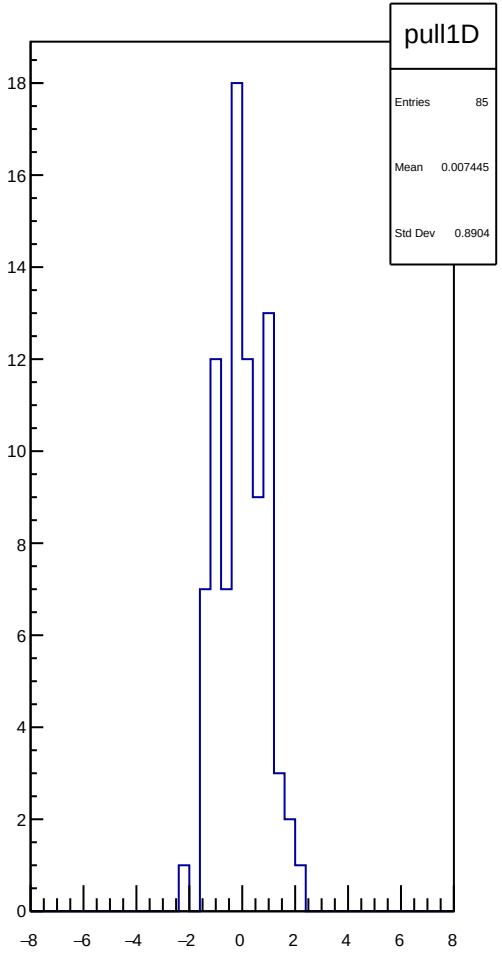

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 84
p0 2.696e−11 ± 3.822e−14
1.2
1
0.8
0.6
0.4
0.2
0

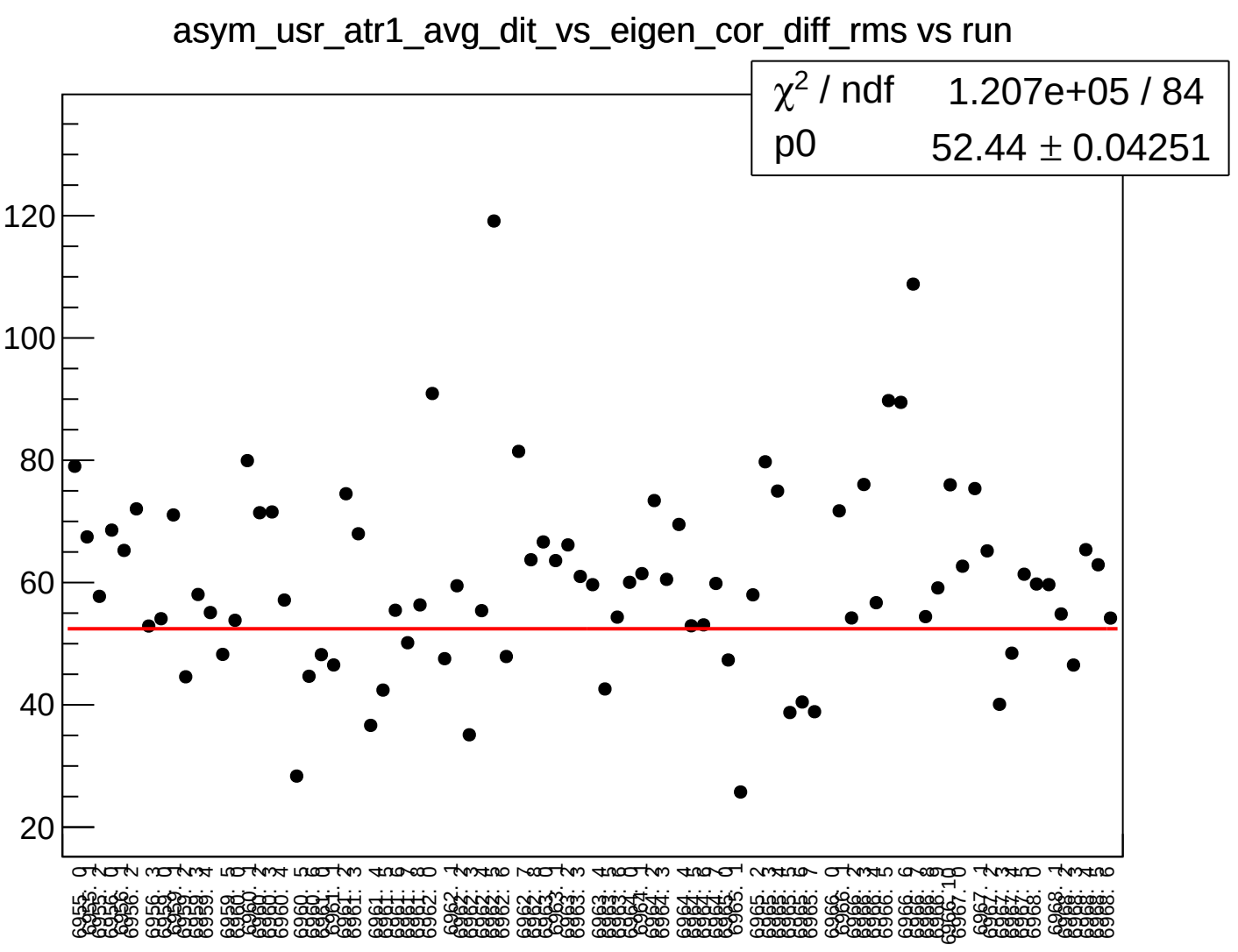

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.39 / 84
p0 −0.08082 ± 0.06012
pull
Entries 85
Mean −368.1
Std Dev 0

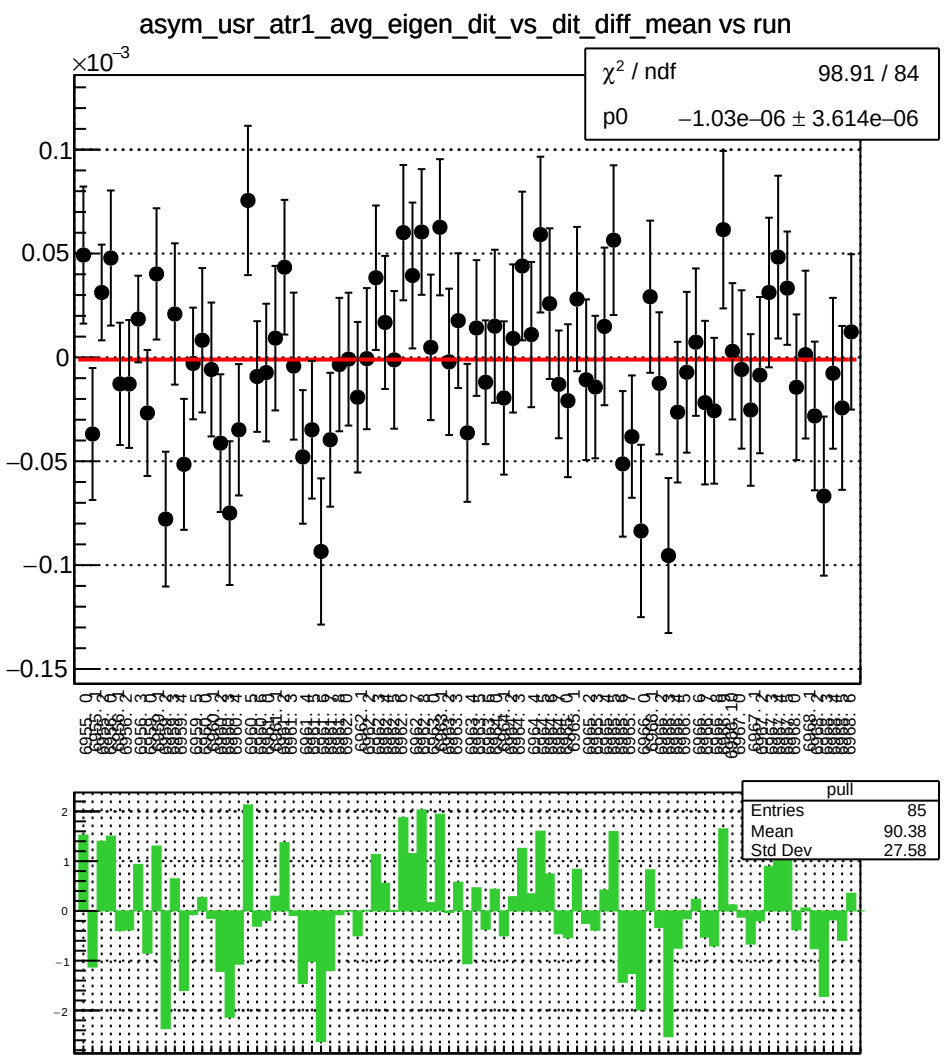

pull1D
Entries 85
Mean 0.007445
Std Dev 0.8904

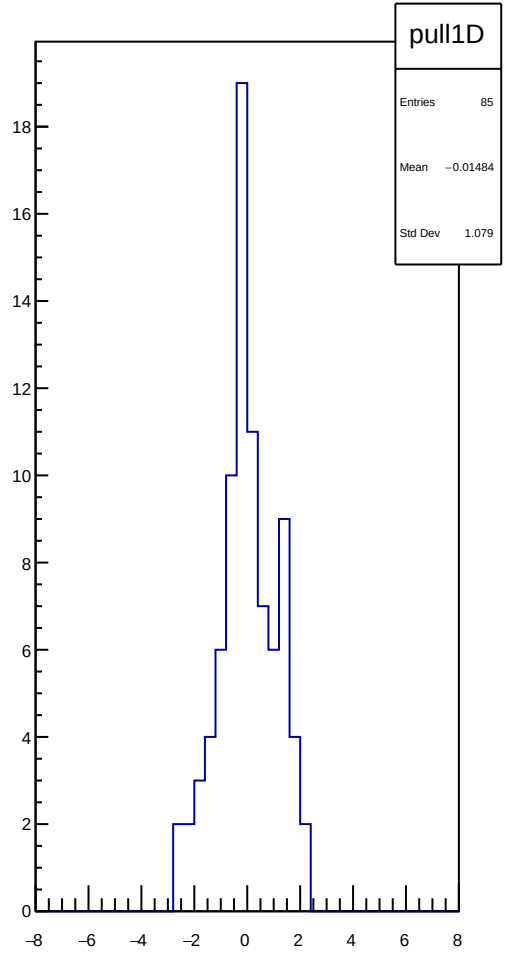

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.207e+05 / 84
p0 52.44 ± 0.04251
120
100
80
60
40
20

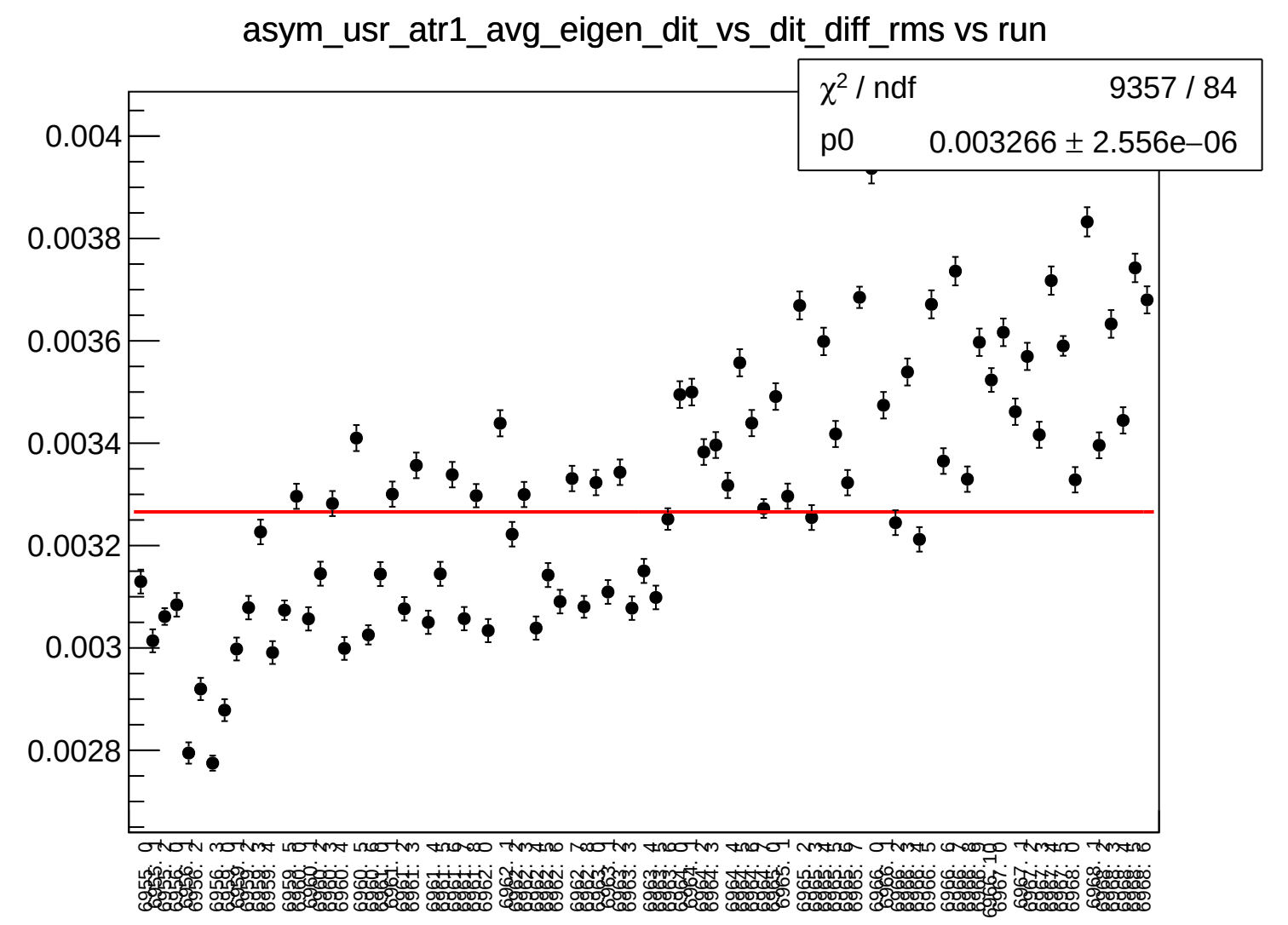

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.39 / 84
p0 −0.08082 ± 0.06012
pull
Entries 85
Mean −368.1
Std Dev 0

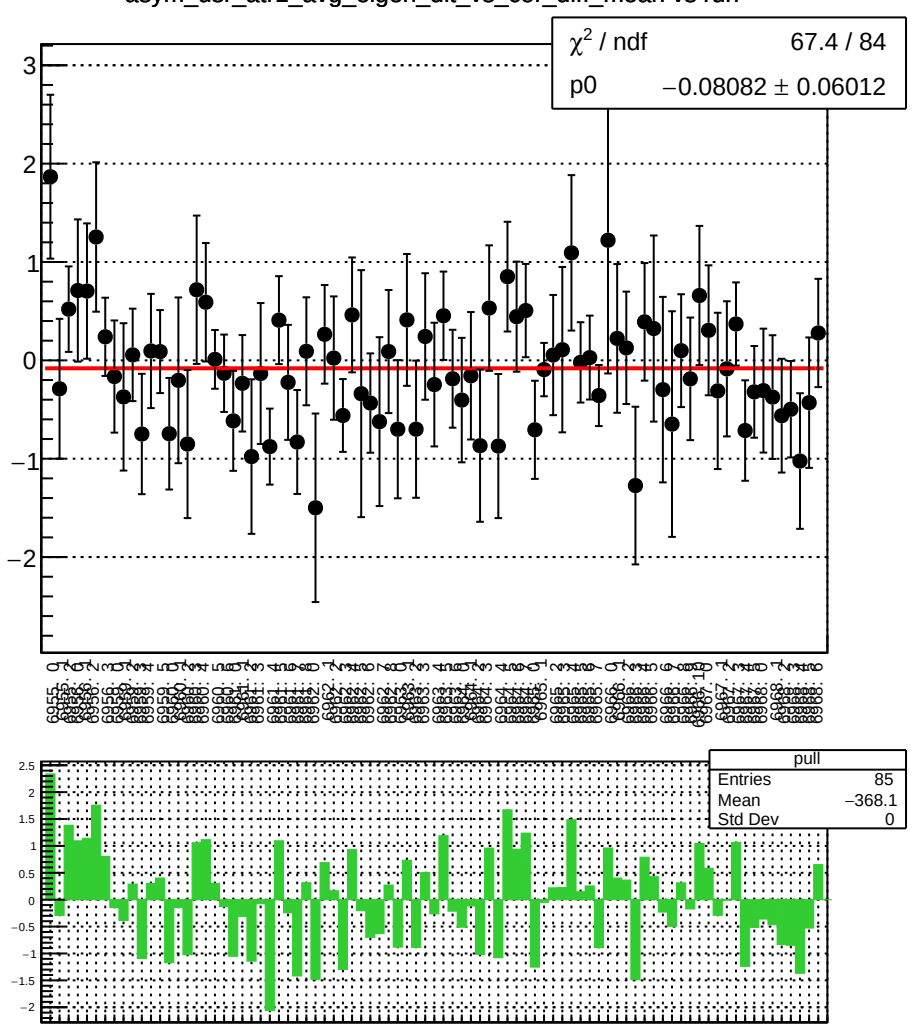

pull1D
Entries 85
Mean 0.007445
Std Dev 0.8904

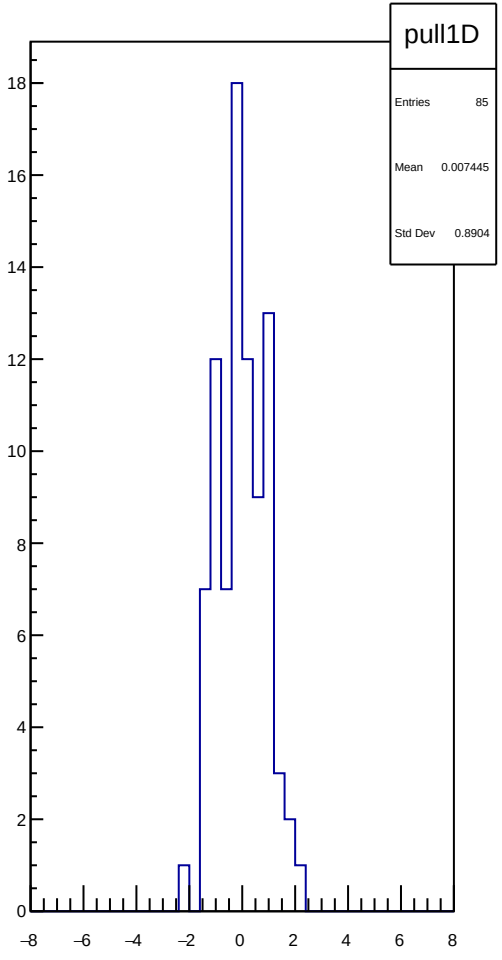

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.207e+05 / 84
p0 52.44 ± 0.04251
120
100
80
60
40
20

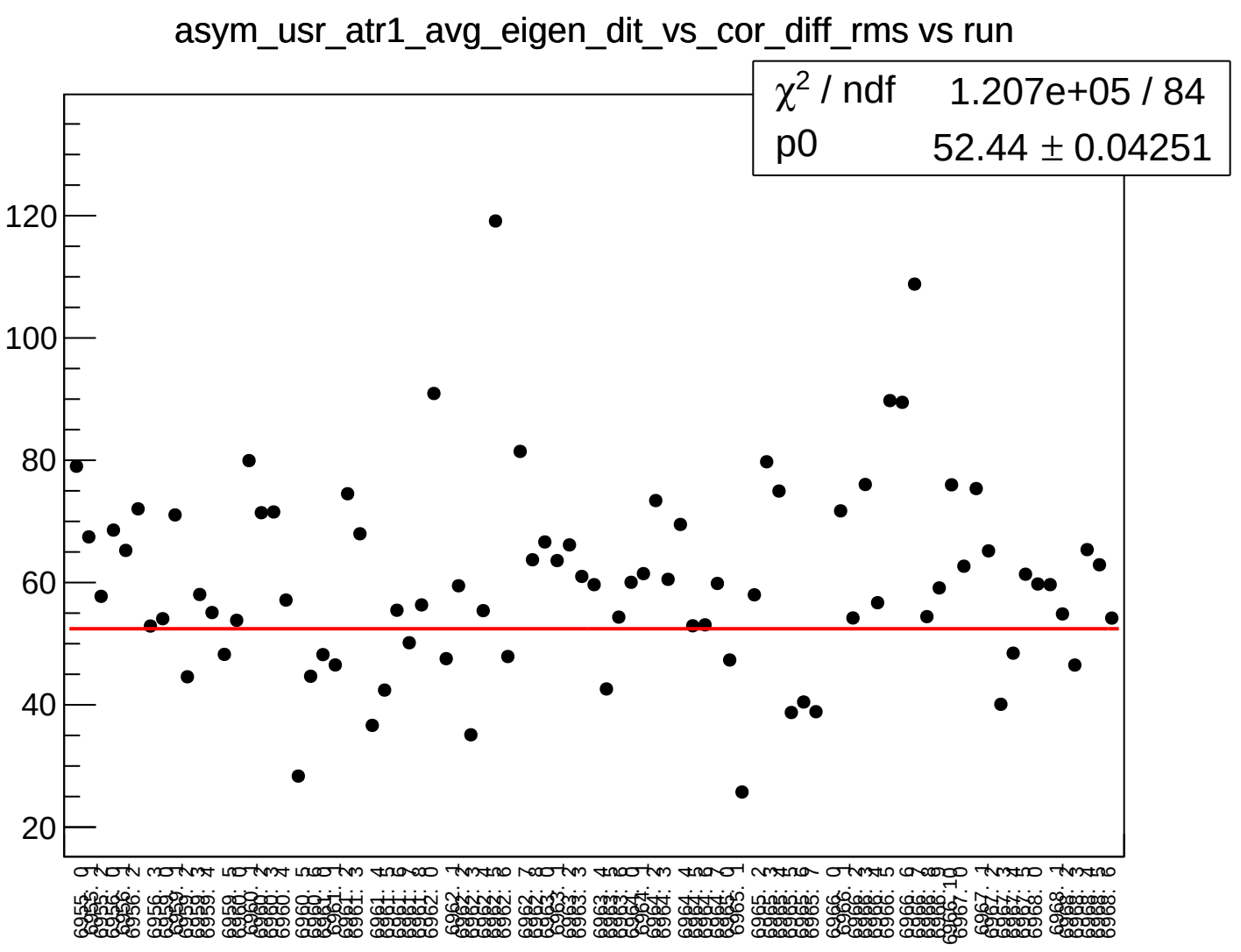

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.91 / 84
p0 −1.03e−06 ± 3.614e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean 90.38
Std Dev 27.58
2
1
0
−1
−2

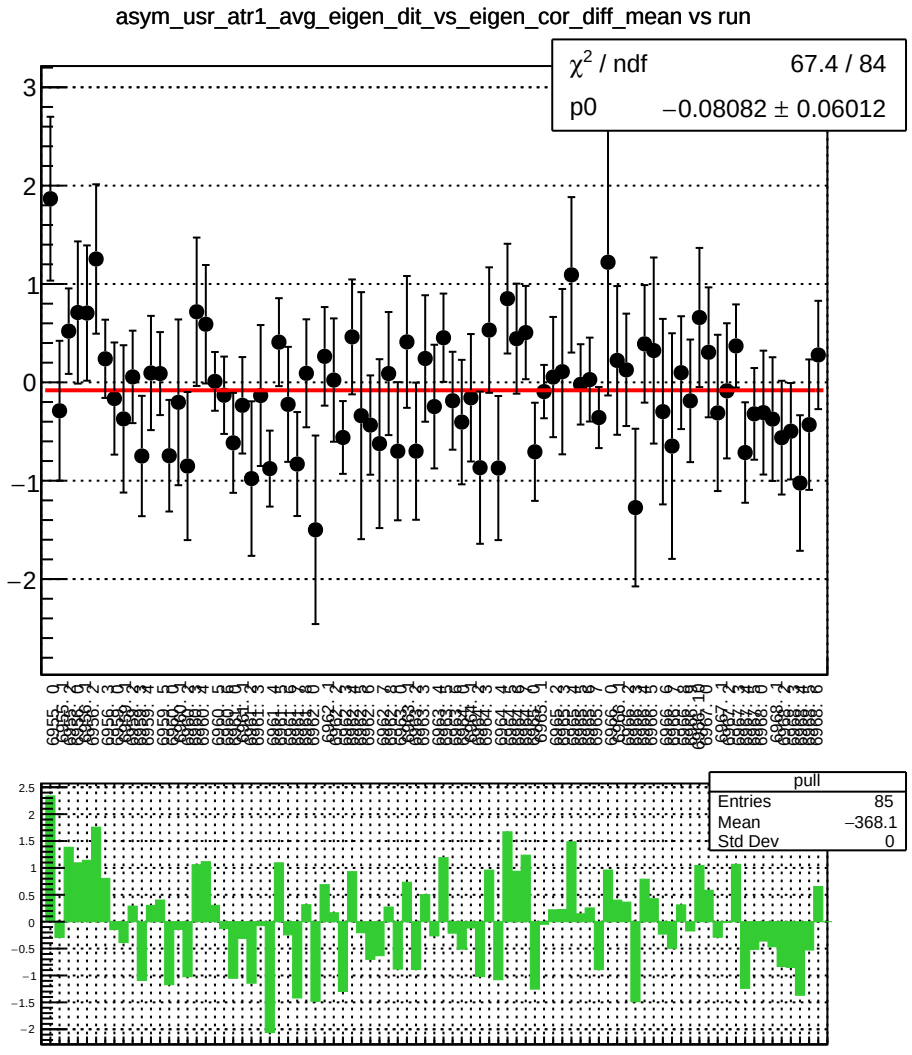

pull1D
Entries 85
Mean −0.01484
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

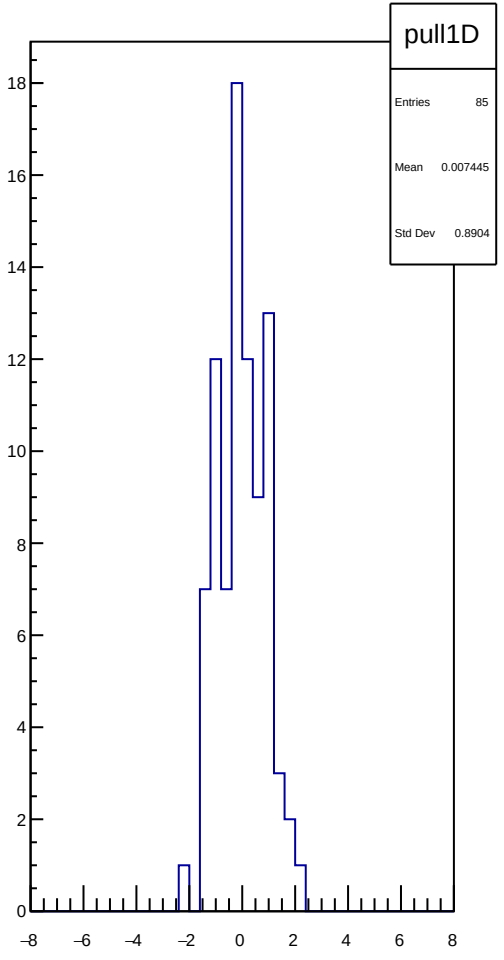

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9357 / 84
p0 0.003266 ± 2.556e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

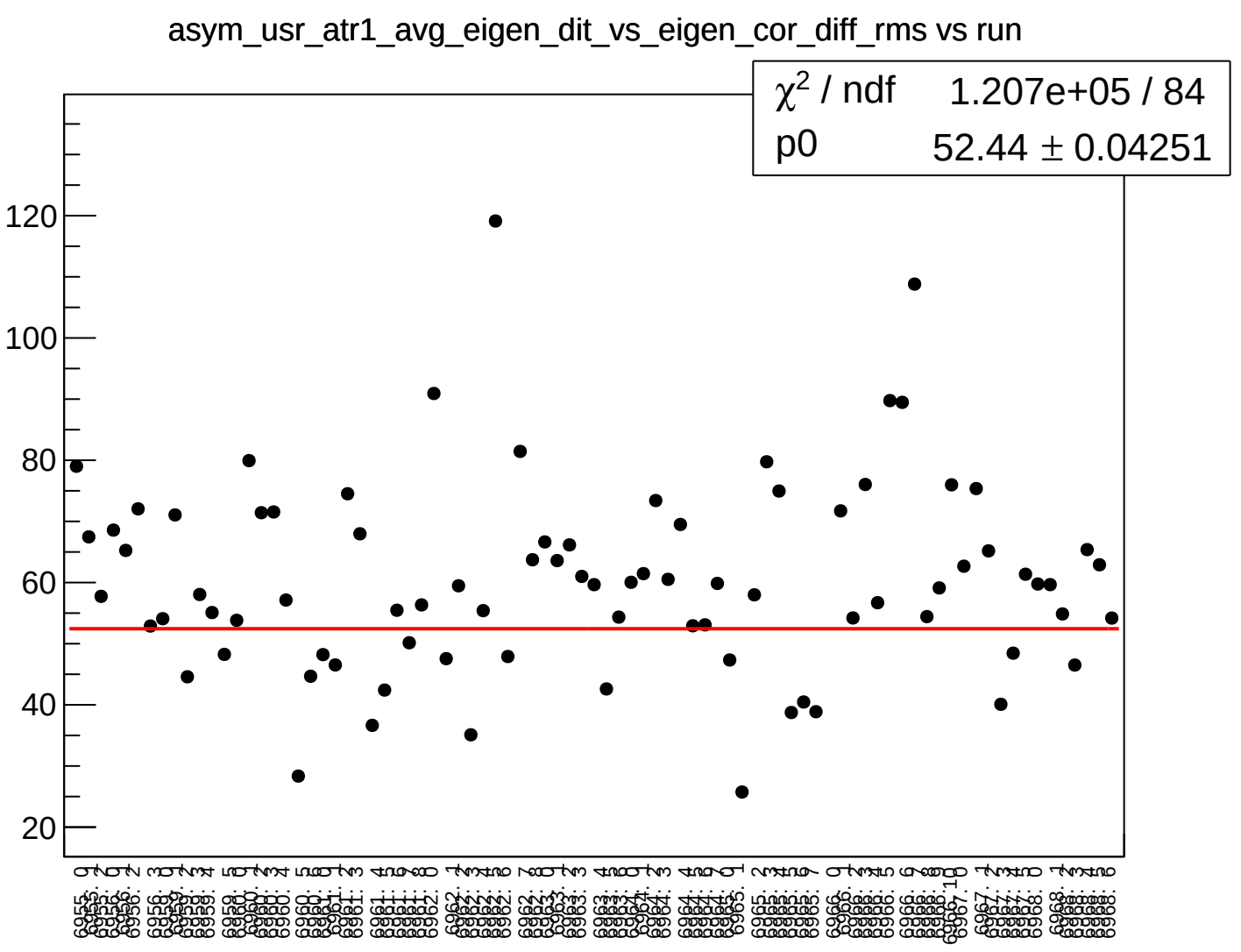

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.4 / 84
p0 −0.08082 ± 0.06012
pull
Entries 85
Mean −368.1
Std Dev 0

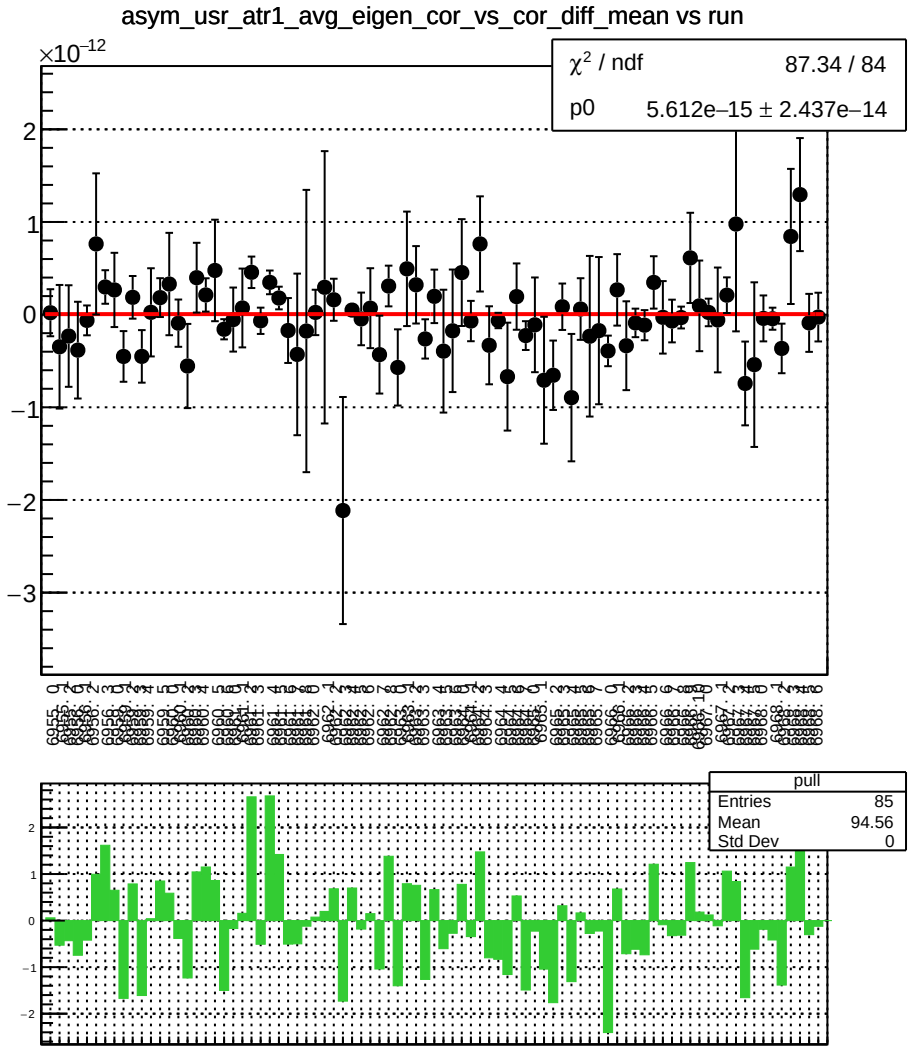

pull1D
Entries 85
Mean 0.007445
Std Dev 0.8904

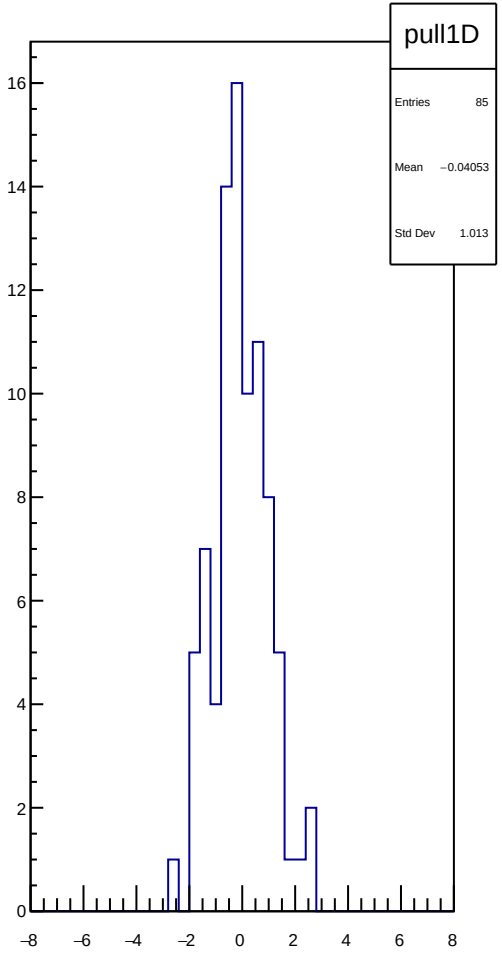

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.207e+05 / 84
p0 52.44 ± 0.04251
120
100
80
60
40
20

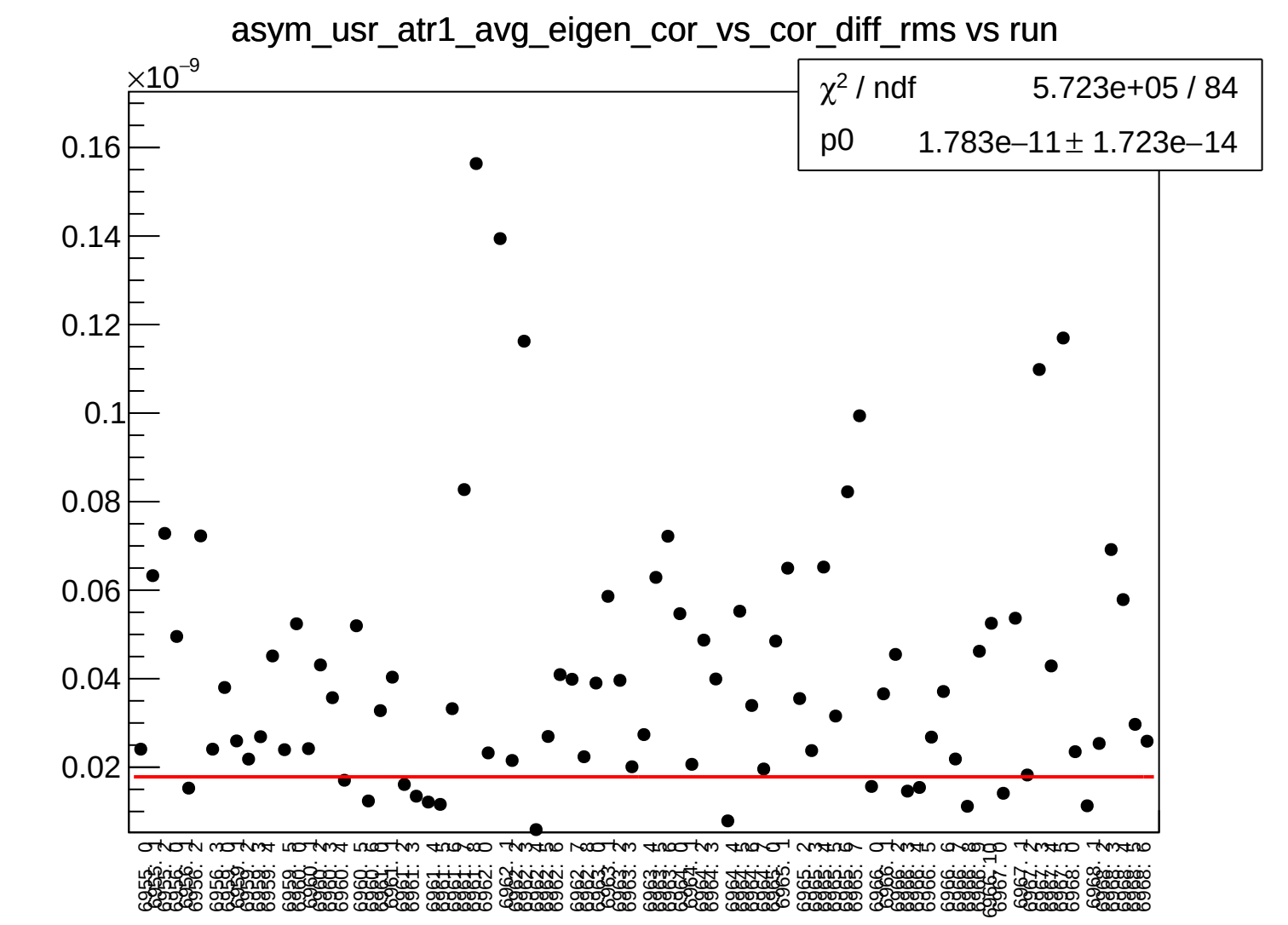

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.4 / 84
p0 −0.08082 ± 0.06012
pull
Entries 85
Mean −368.1
Std Dev 0

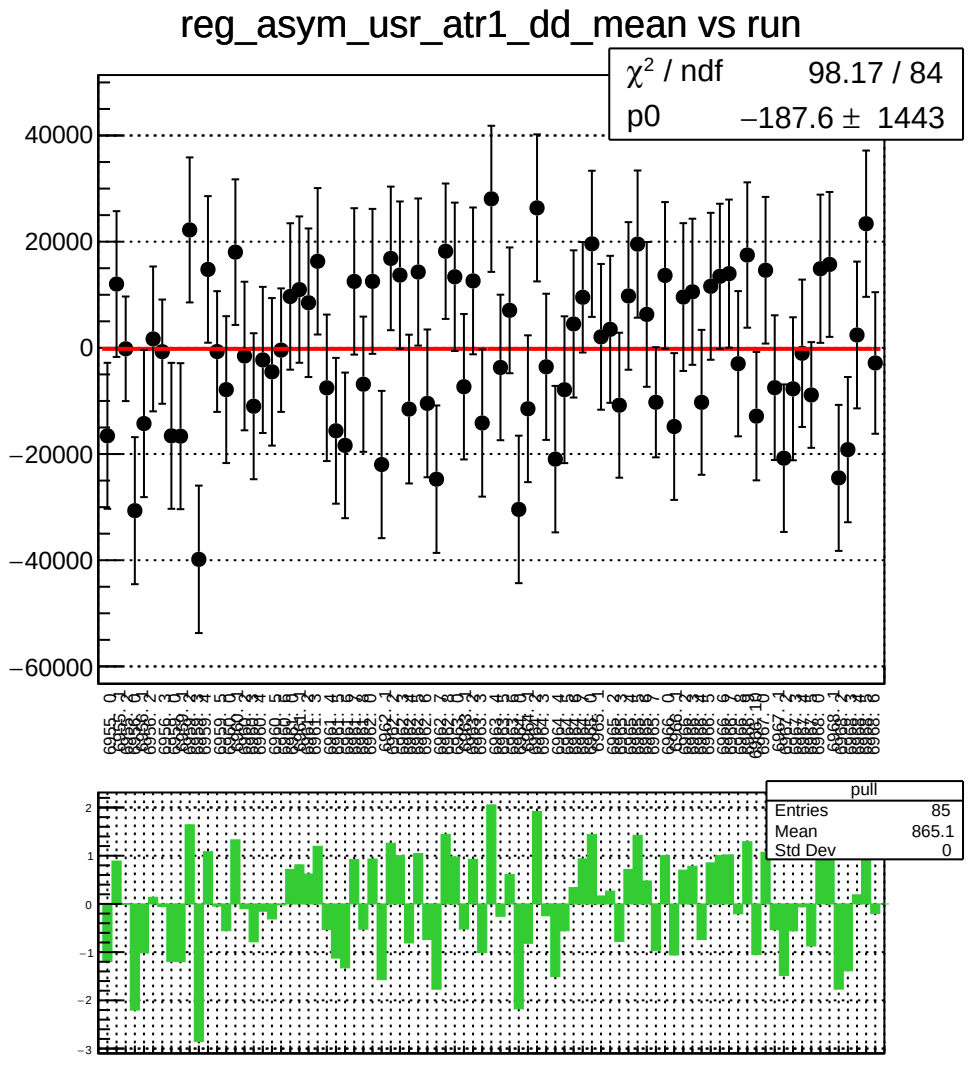

pull1D
Entries 85
Mean 0.007445
Std Dev 0.8904

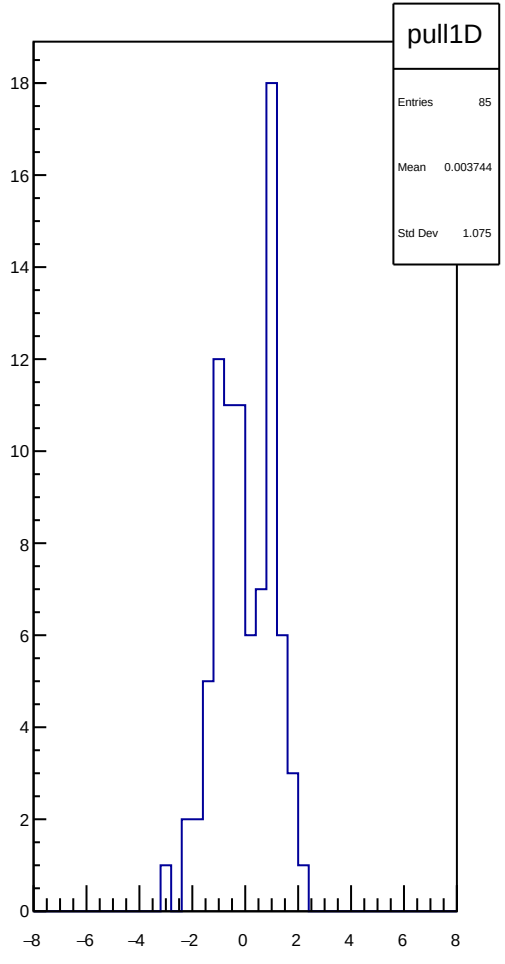

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.207e+05 / 84
p0 52.44 ± 0.04251
120
100
80
60
40
20

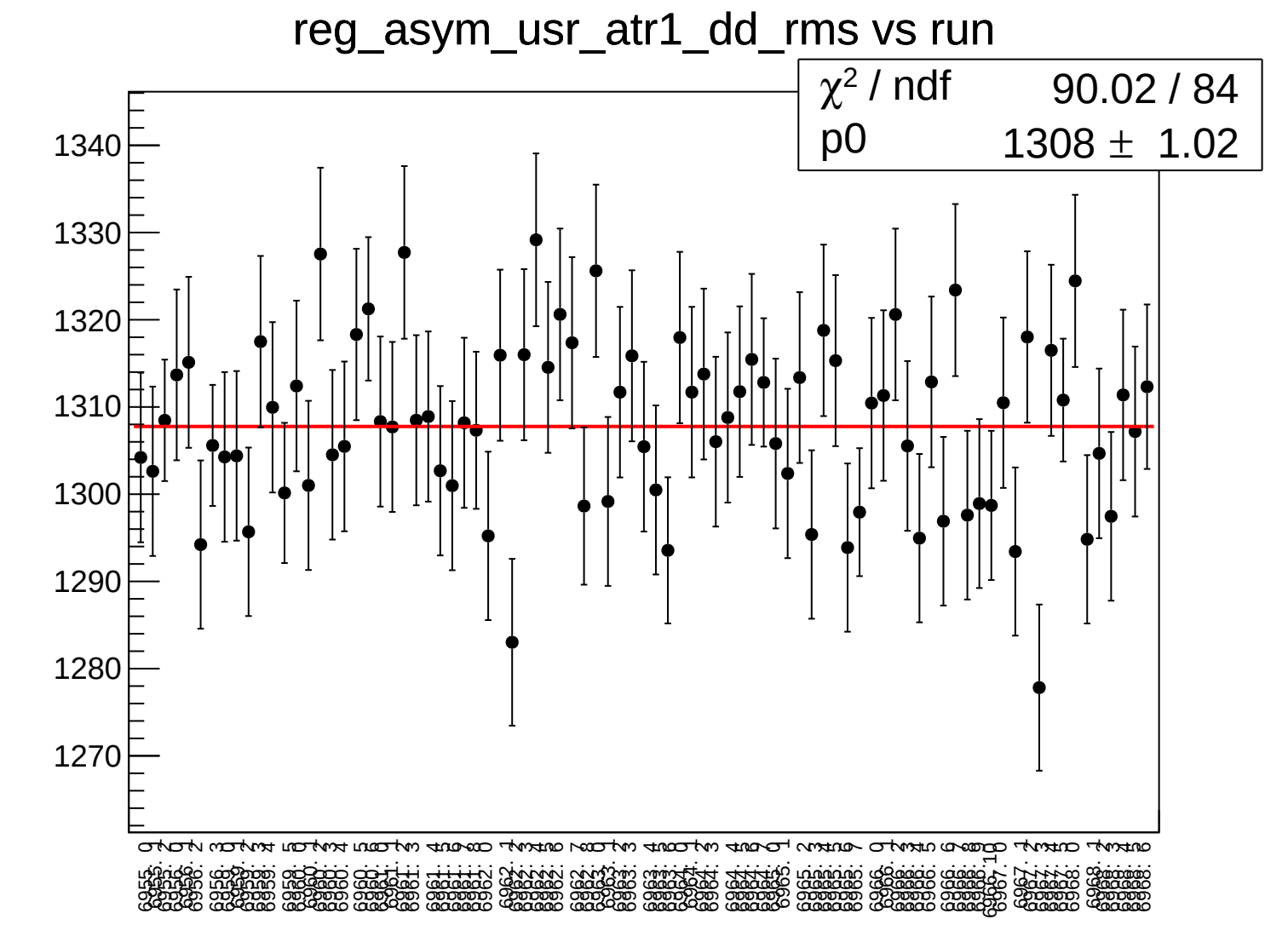

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.34 / 84
p0 5.612e−15 ± 2.437e−14
pull
Entries 85
Mean 94.56
Std Dev 0

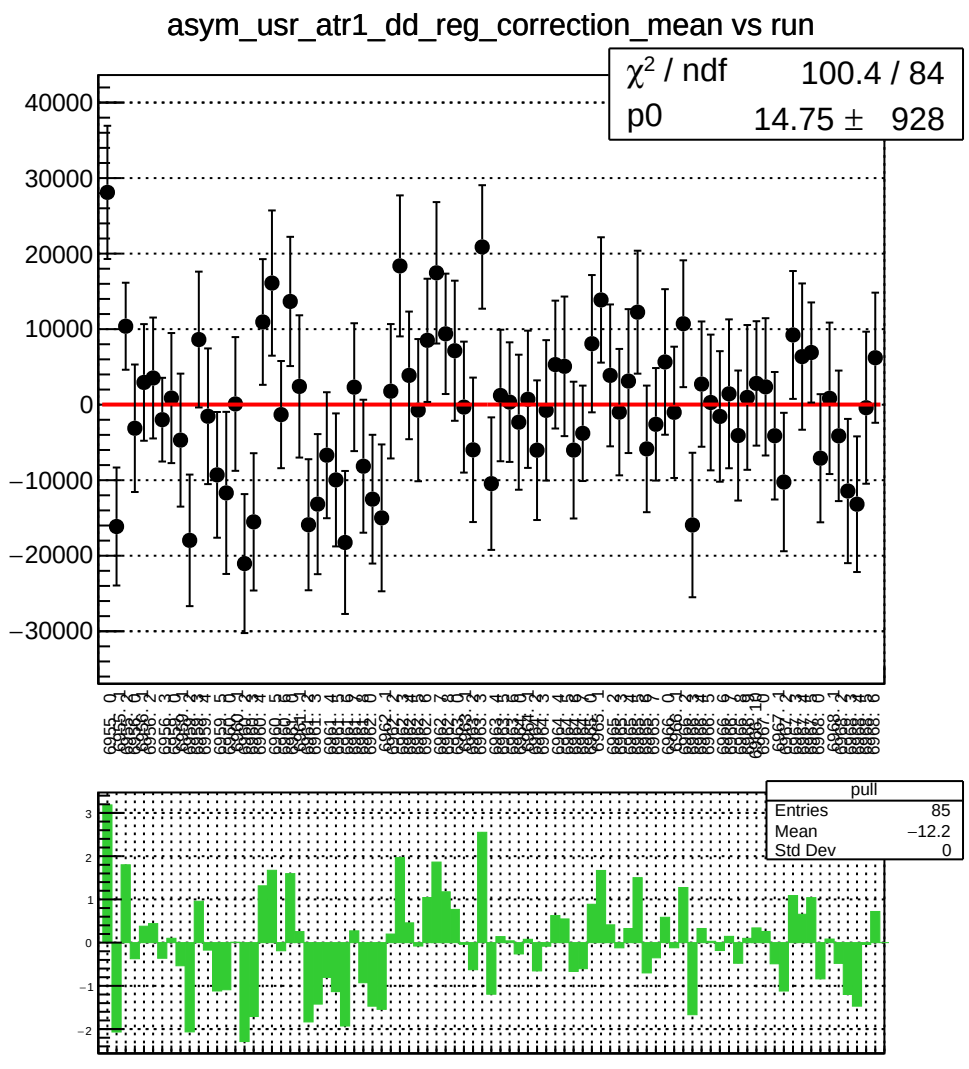

pull1D
Entries 85
Mean −0.04053
Std Dev 1.013

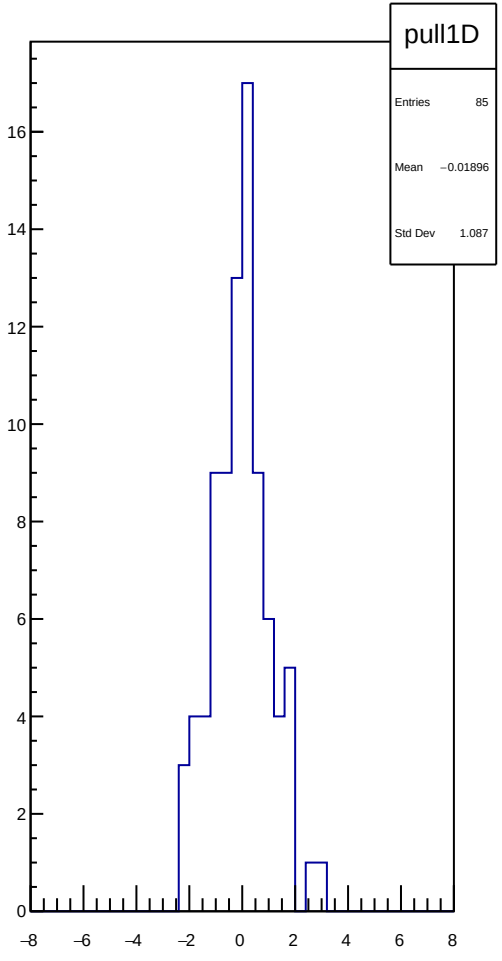

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.723e+05 / 84
p0 1.783e−11 ± 1.723e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

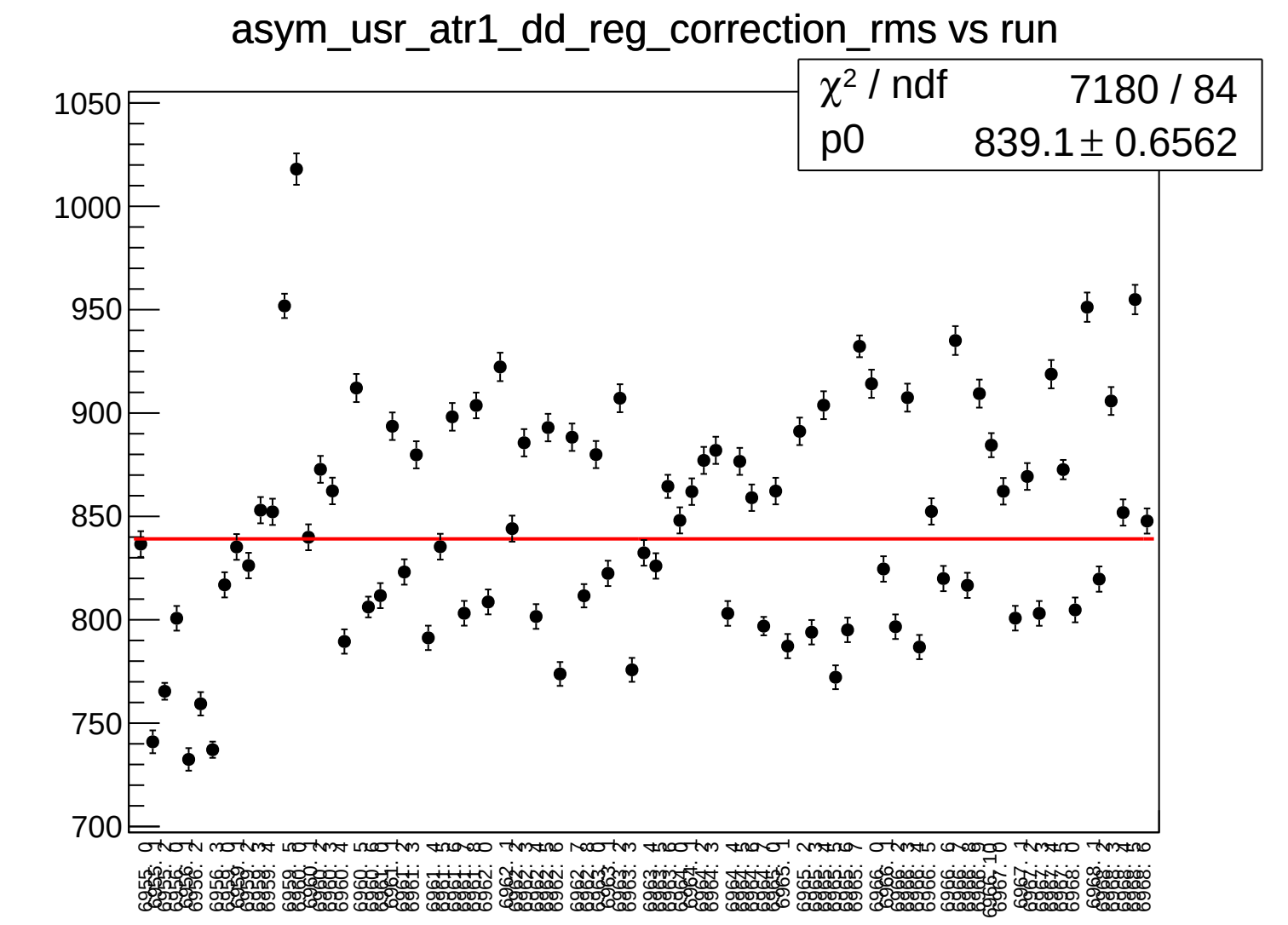

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.17 / 84
p0 −187.6 ± 1443
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 865.1
Std Dev 0
2
1
0
−1
−2
−3

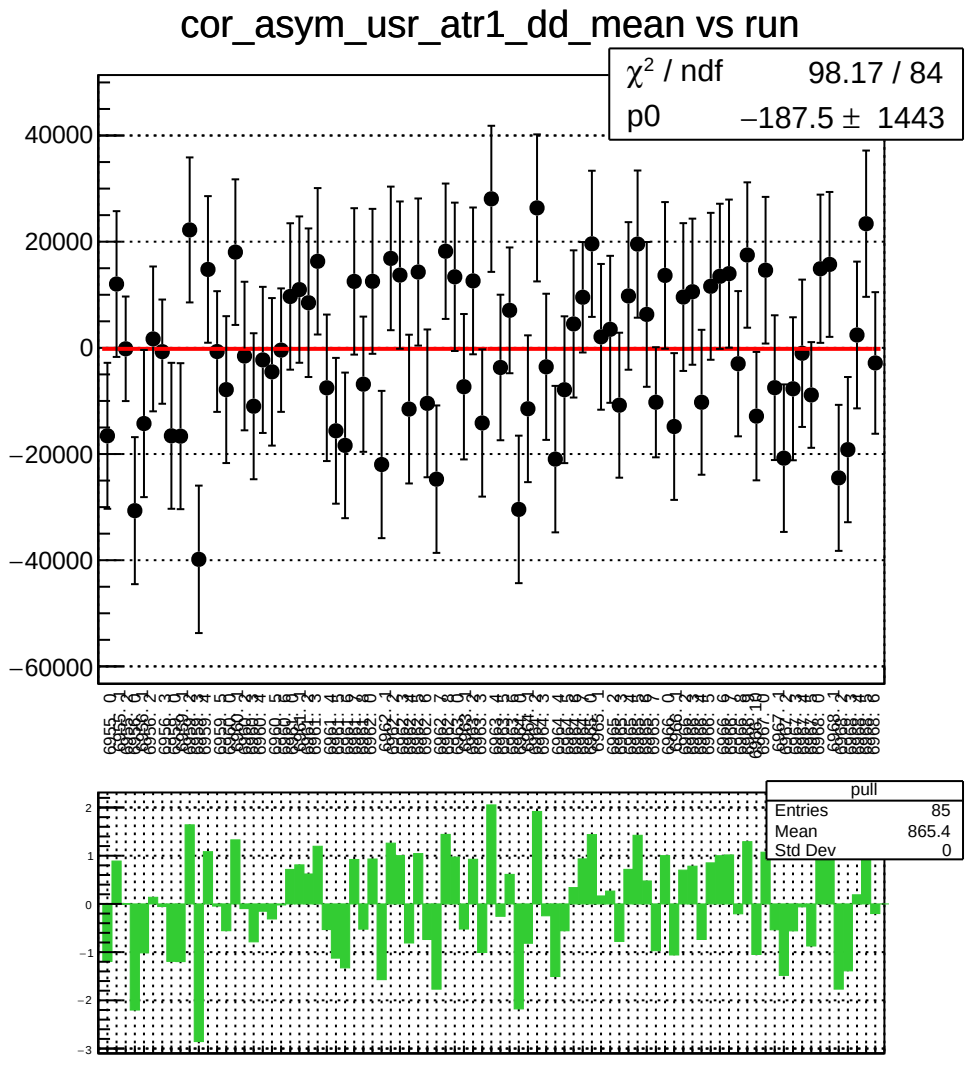

pull1D
Entries 85
Mean 0.003744
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

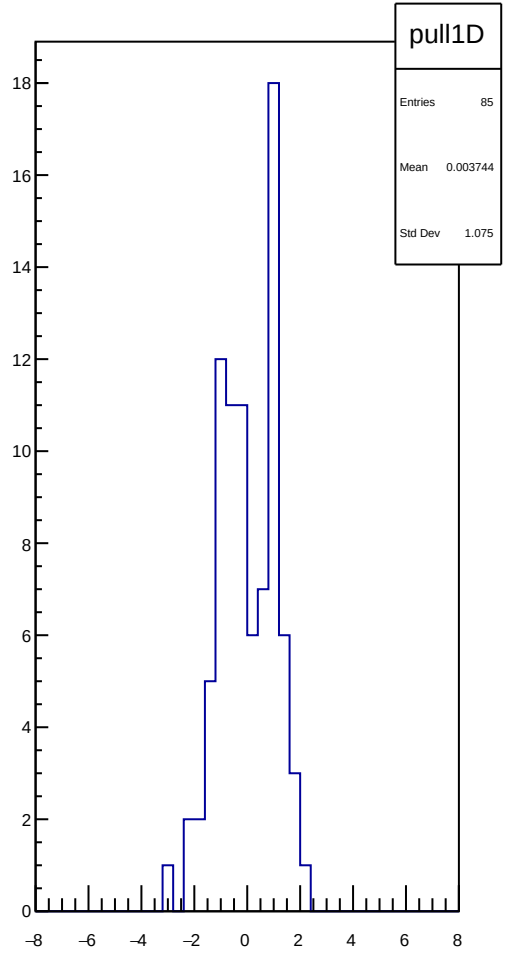

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 90.02 / 84
p0 1308 ± 1.02
1340
1330
1320
1310
1300
1290
1280
1270

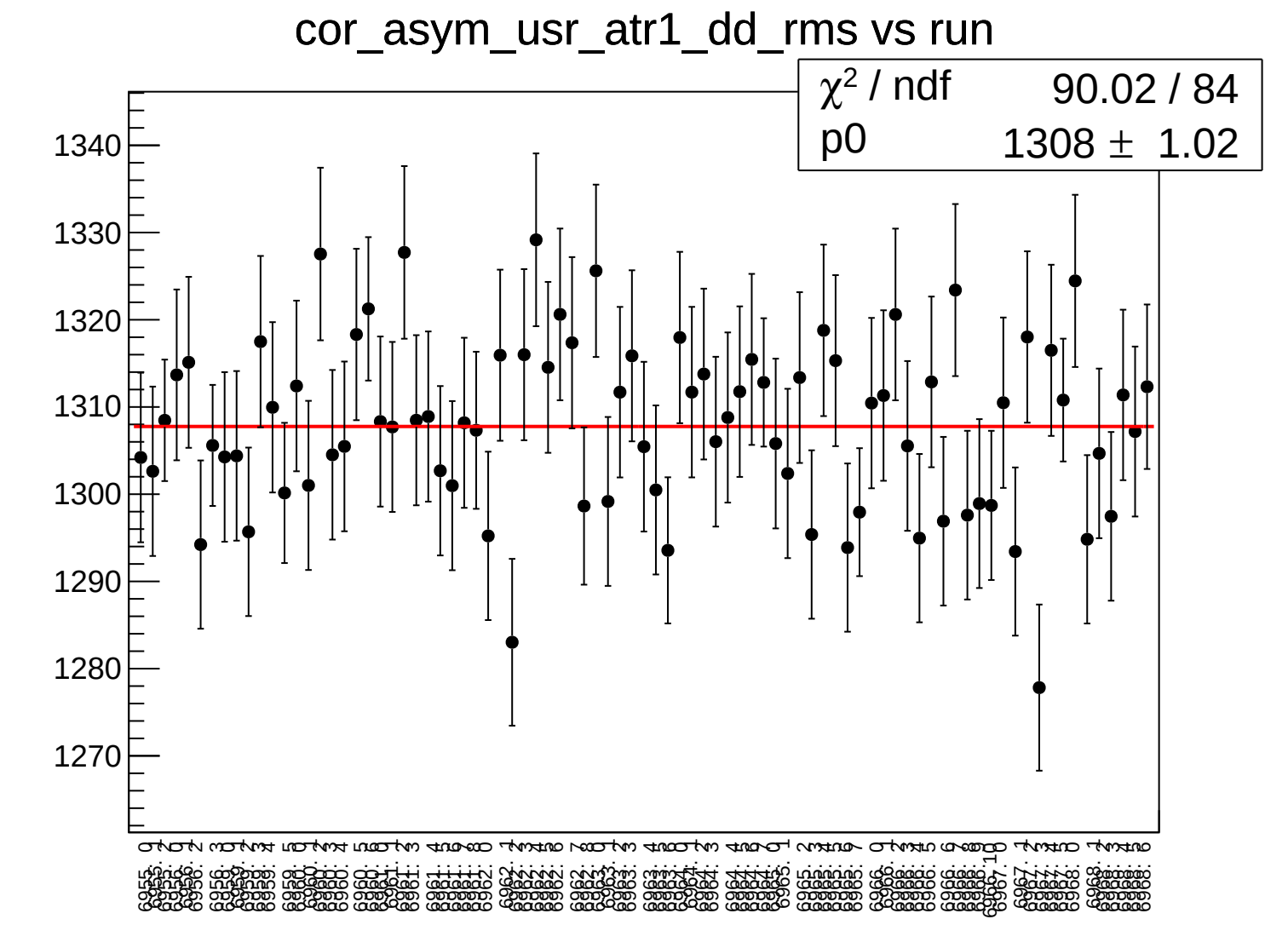

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 100.4 / 84
p0 14.75 ± 928
pull
Entries 85
Mean −12.2
Std Dev 0

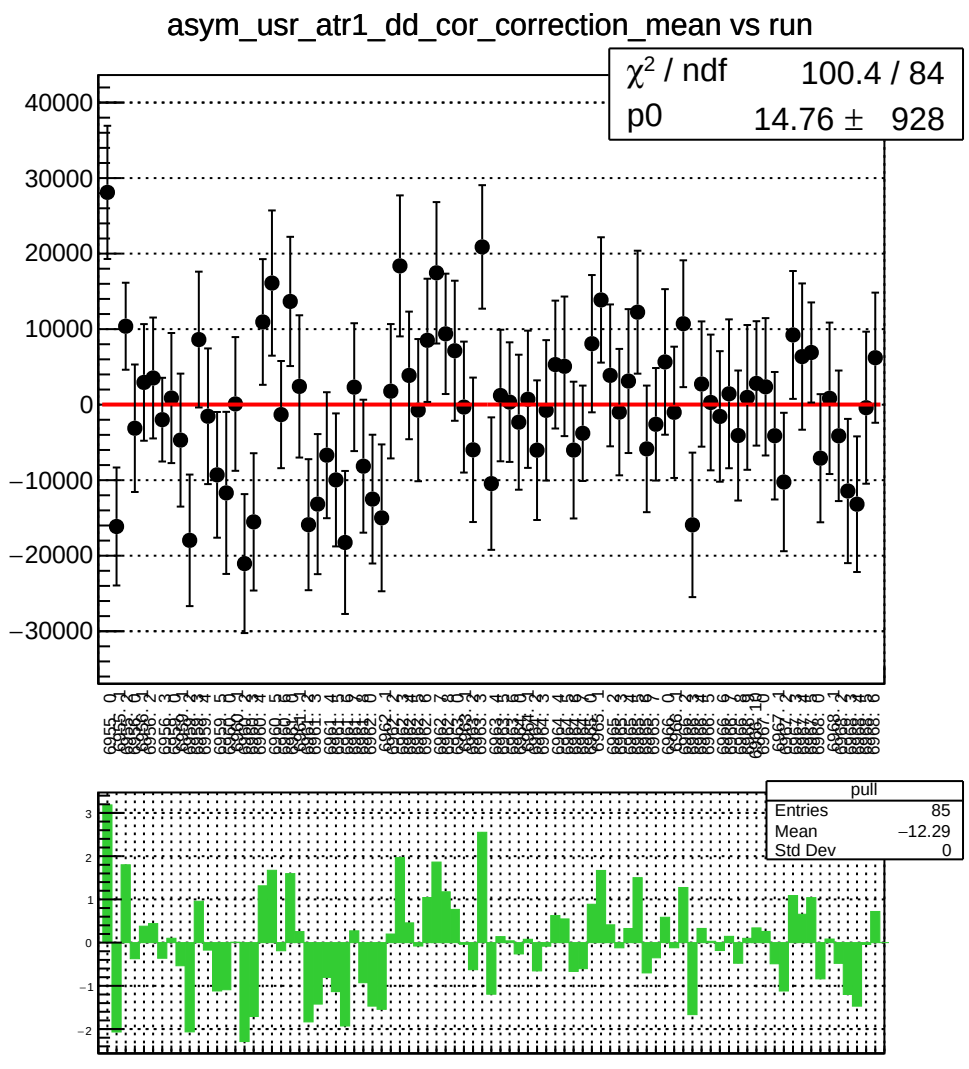

pull1D
Entries 85
Mean −0.01896
Std Dev 1.087

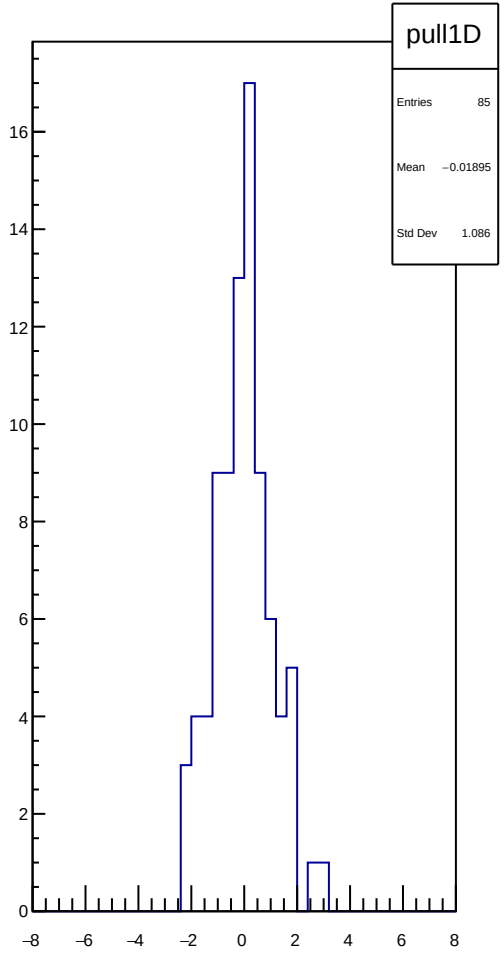

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 7180 / 84
p0 839.1 ± 0.6562
1050
1000
950
900
850
800
750
700

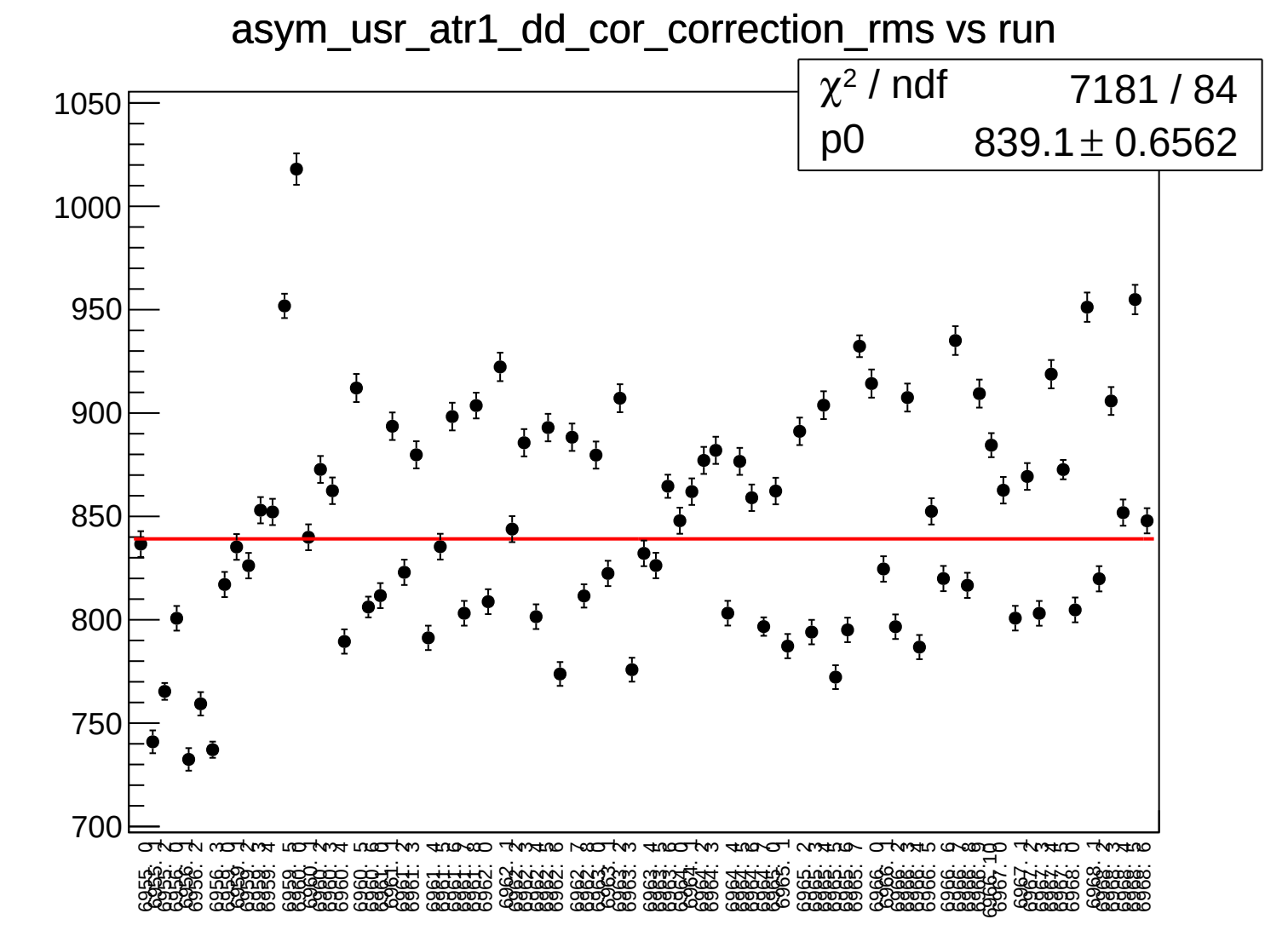

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.17 / 84
p0 −187.5 ± 1443
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 865.4
Std Dev 0
2
1
0
−1
−2
−3

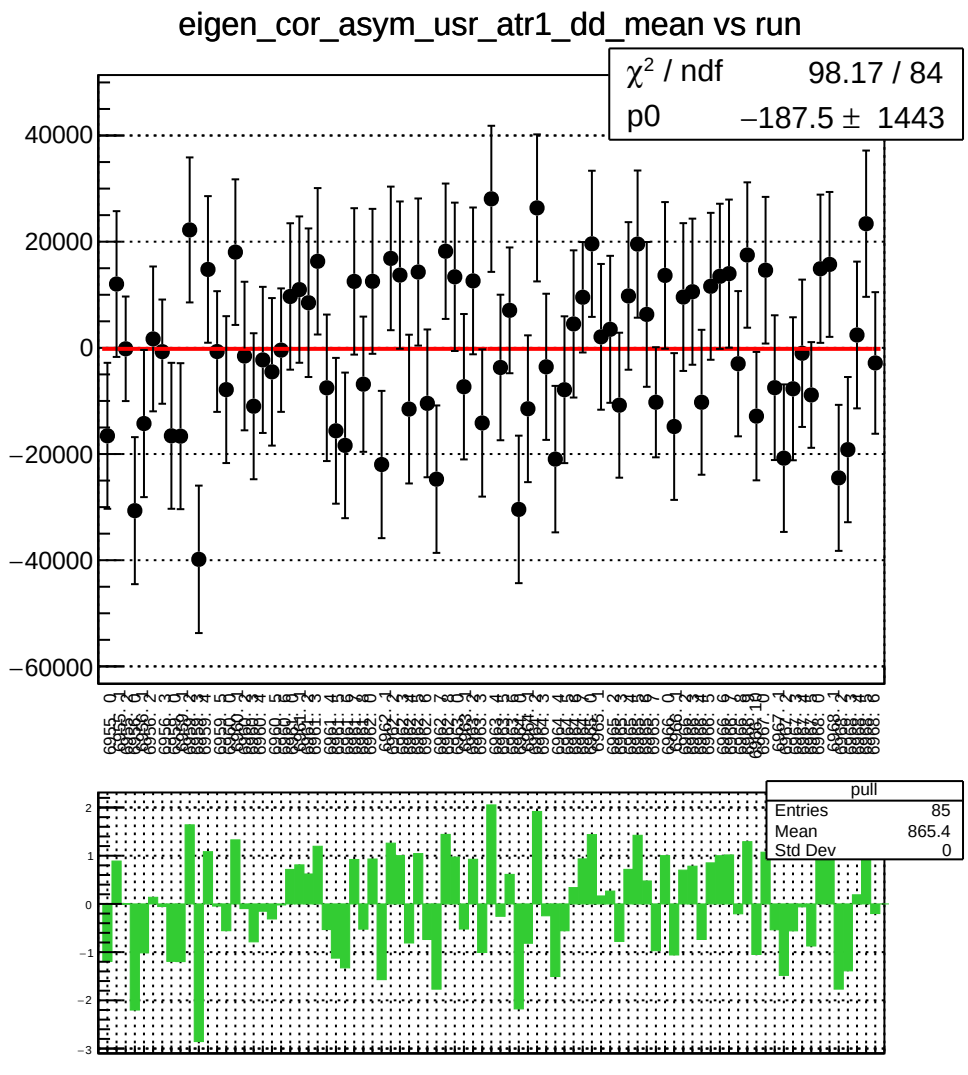

pull1D
Entries 85
Mean 0.003744
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

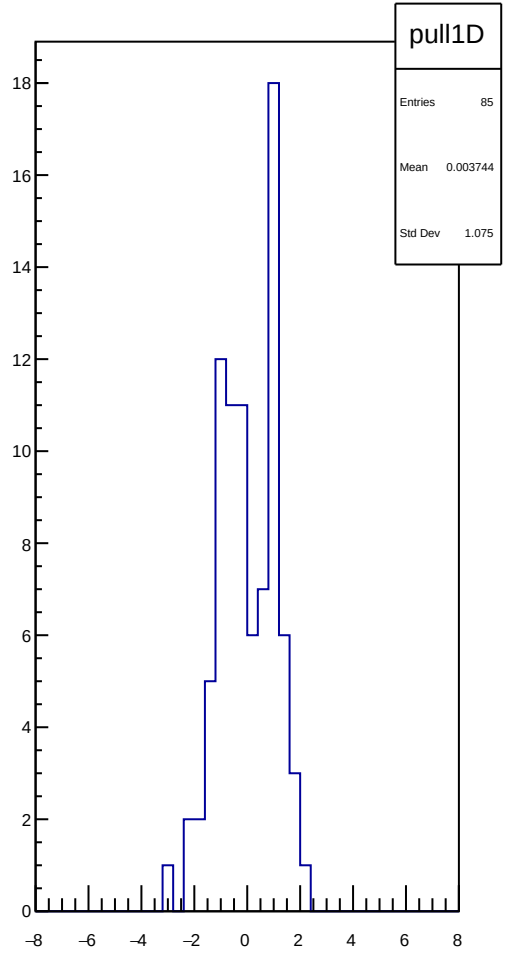

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 90.02 / 84
p0 1308 ± 1.02
1340
1330
1320
1310
1300
1290
1280
1270

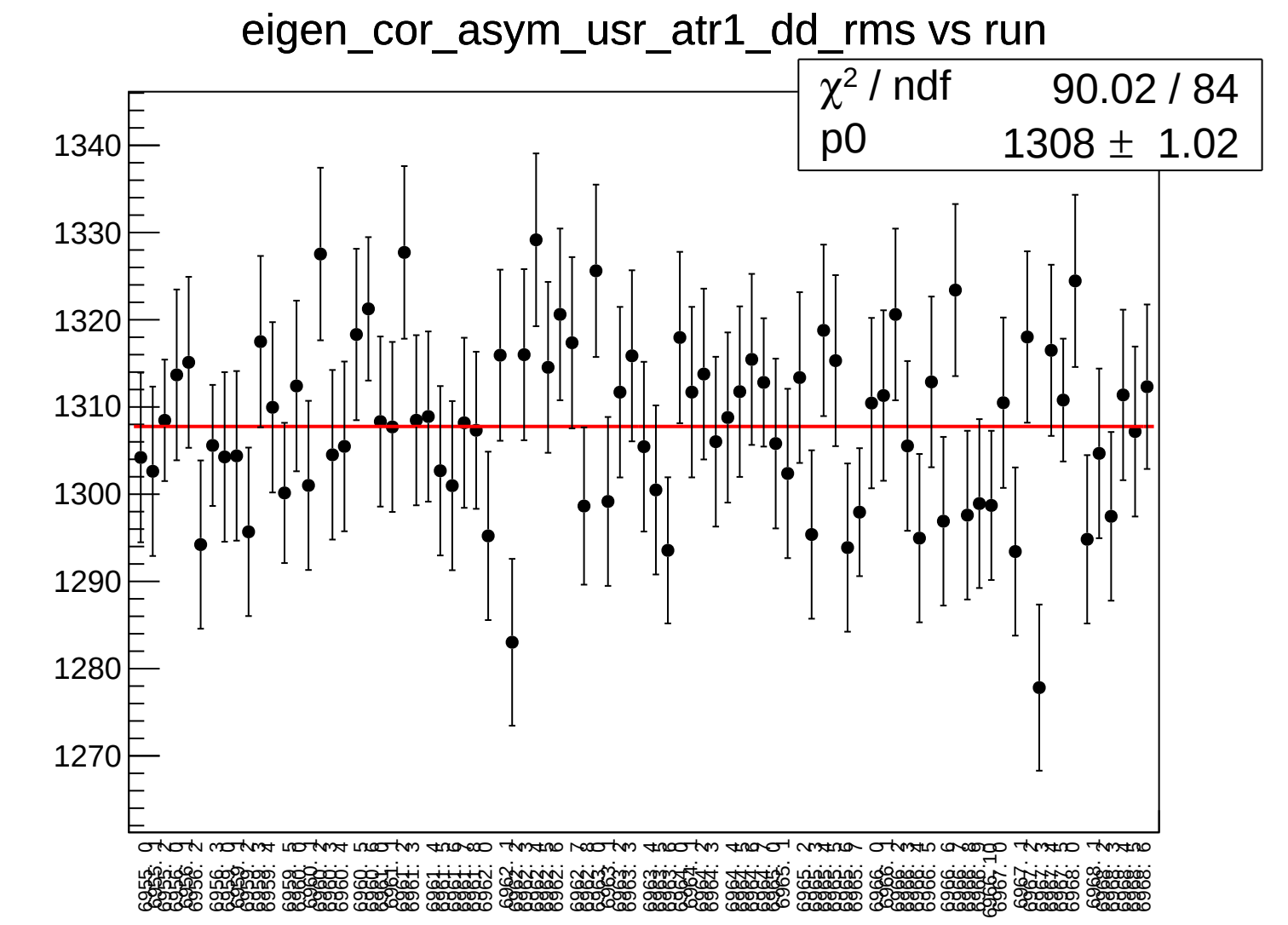

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 100.4 / 84
p0 14.76 ± 928
pull
Entries 85
Mean −12.29
Std Dev 0

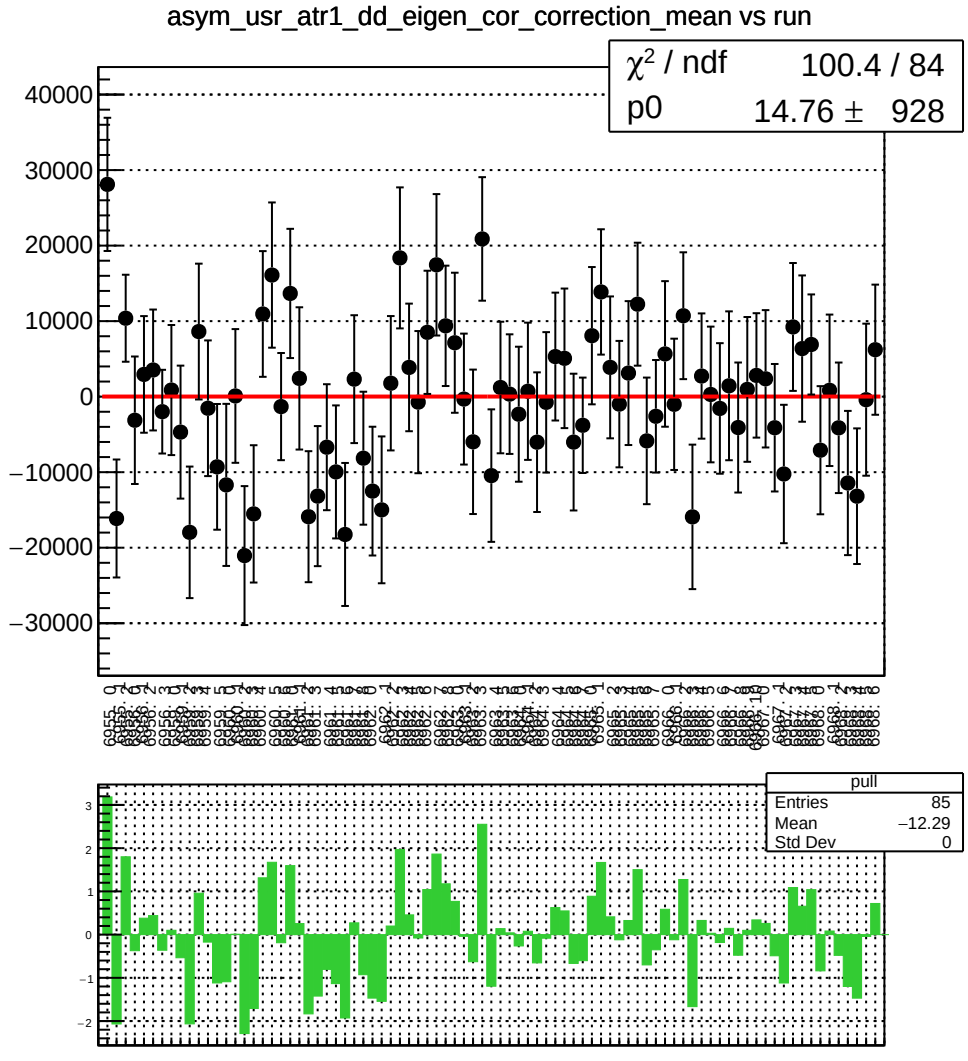

pull1D
Entries 85
Mean −0.01895
Std Dev 1.086

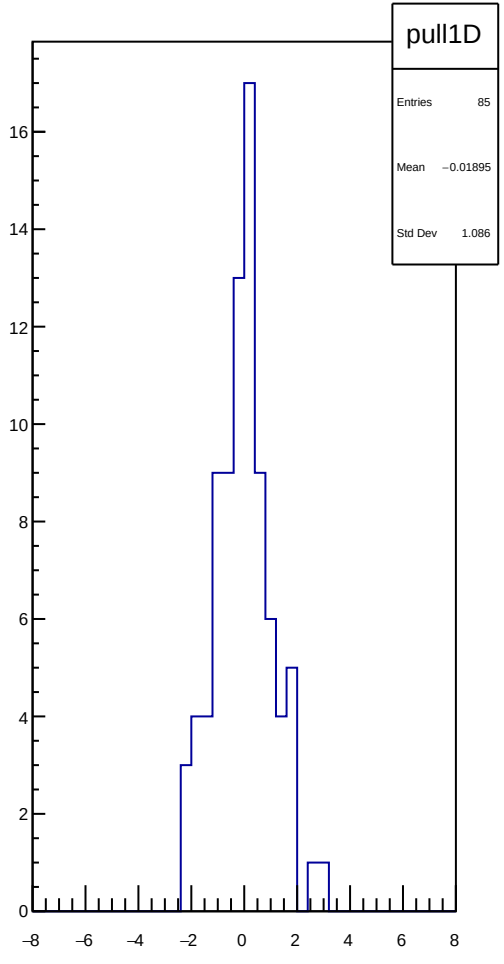

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 7181 / 84
p0 839.1 ± 0.6562
1050
1000
950
900
850
800
750
700

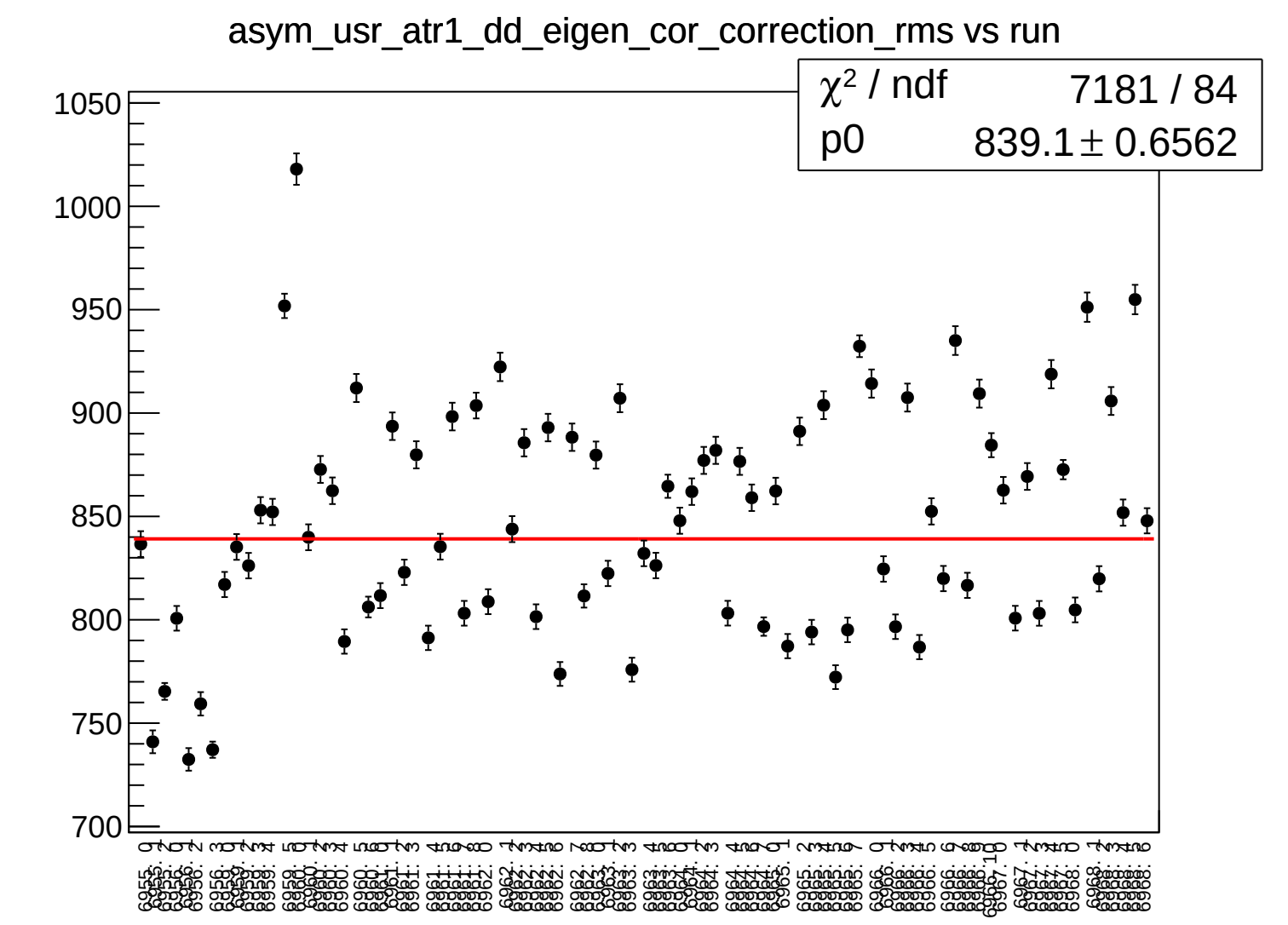

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.17 / 84
p0 −187.5 ± 1443
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 865.4
Std Dev 0
2
1
0
−1
−2
−3

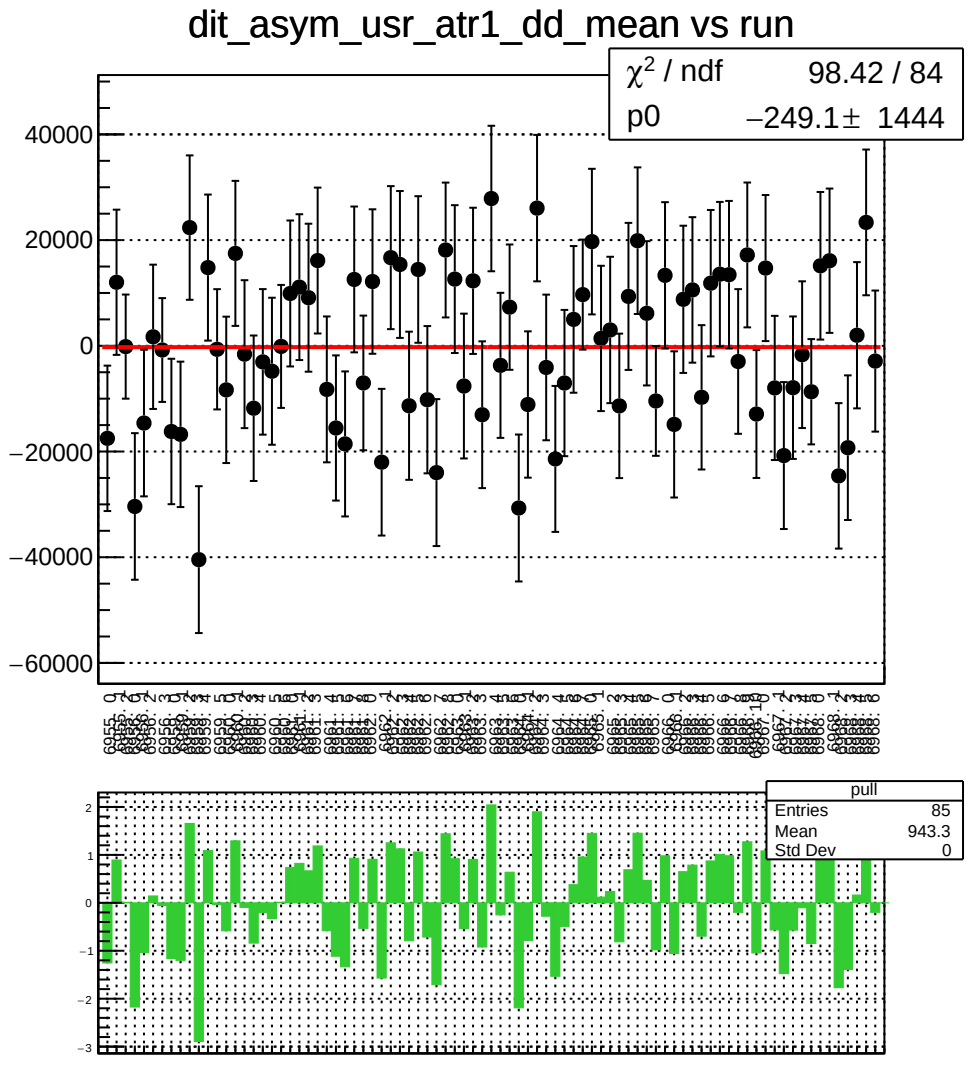

pull1D
Entries 85
Mean 0.003744
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

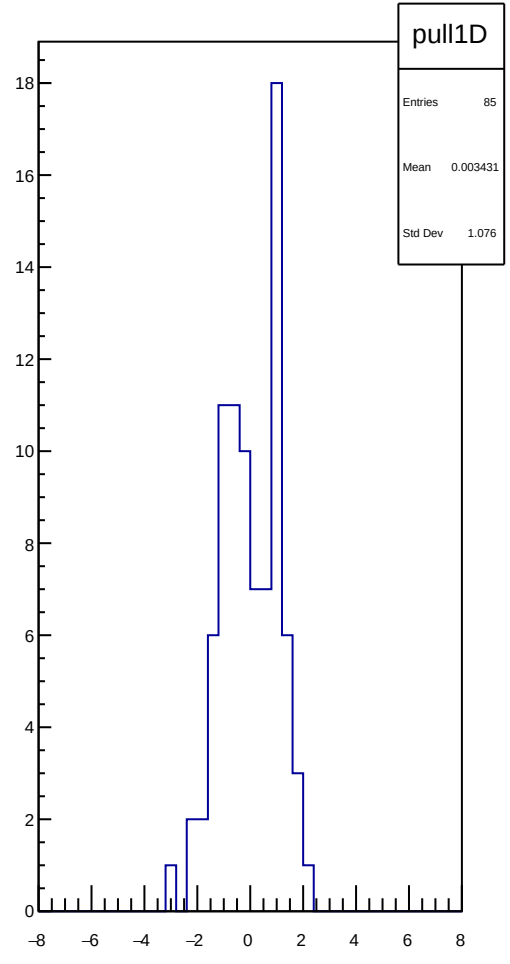

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 90.02 / 84
p0 1308 ± 1.02
1340
1330
1320
1310
1300
1290
1280
1270

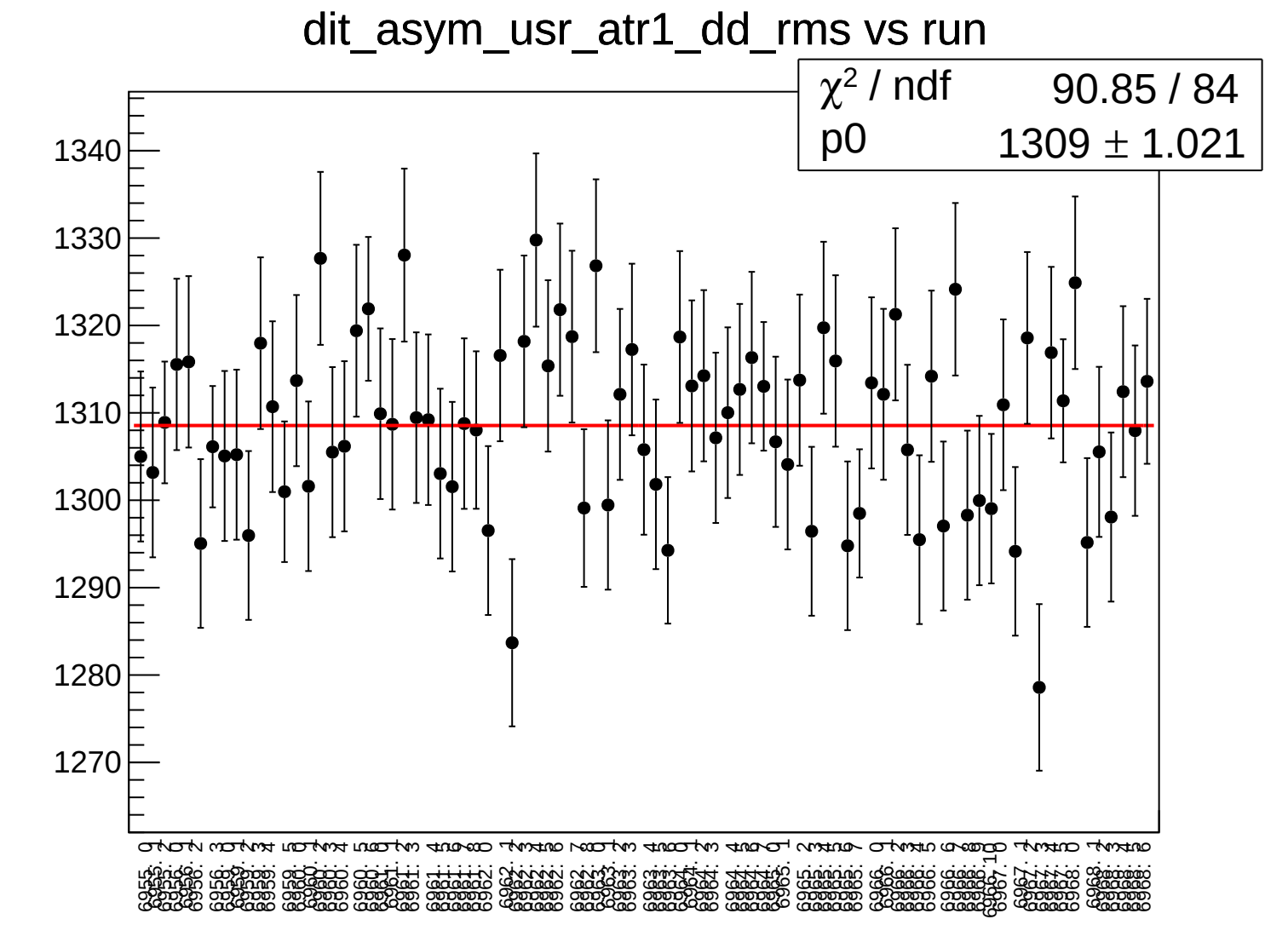

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.4 / 84
p0 14.76 ± 928
pull
Entries 85
Mean −12.29
Std Dev 0

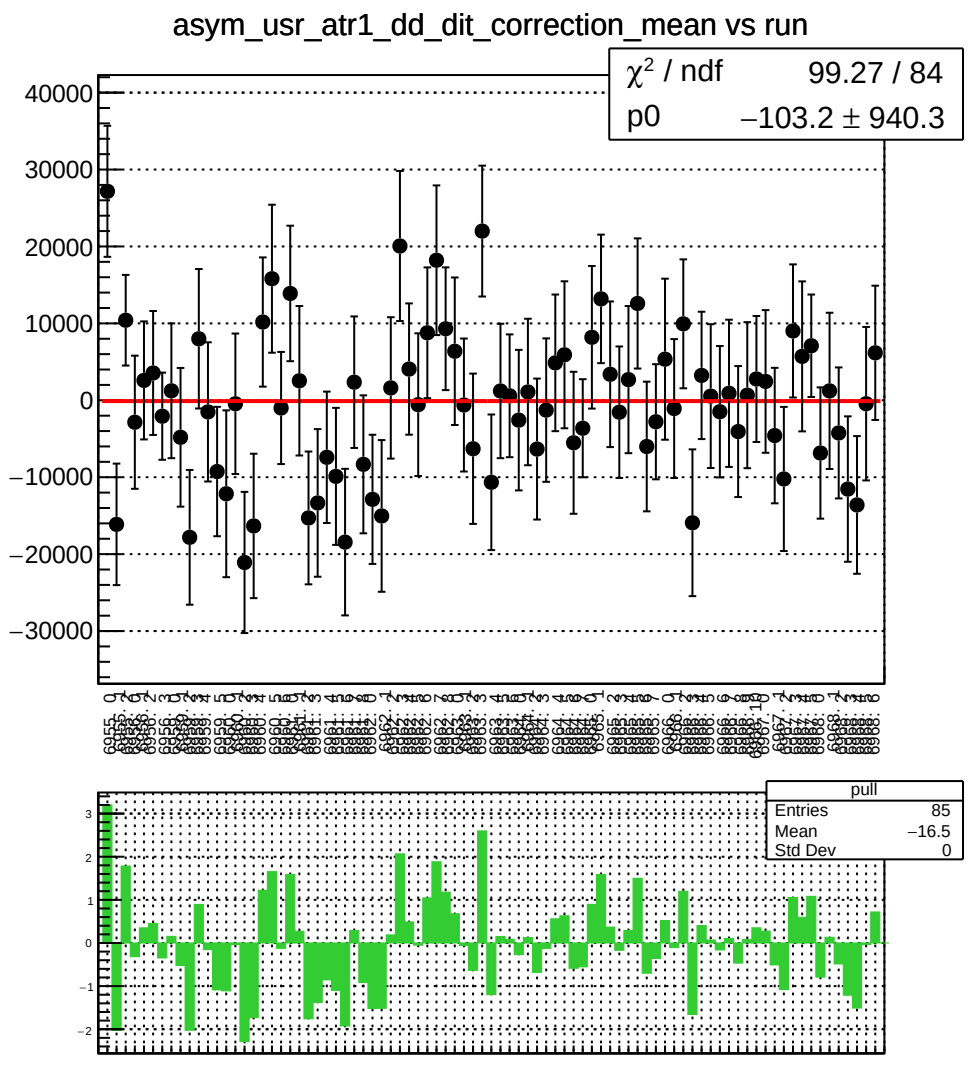

pull1D
Entries 85
Mean −0.01895
Std Dev 1.086

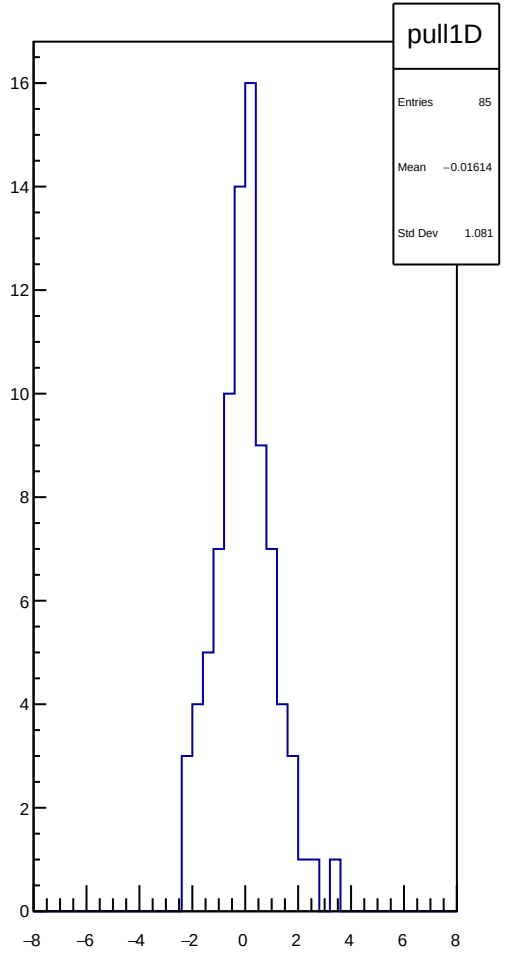

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 7181 / 84
p0 839.1 ± 0.6562
1050
1000
950
900
850
800
750
700

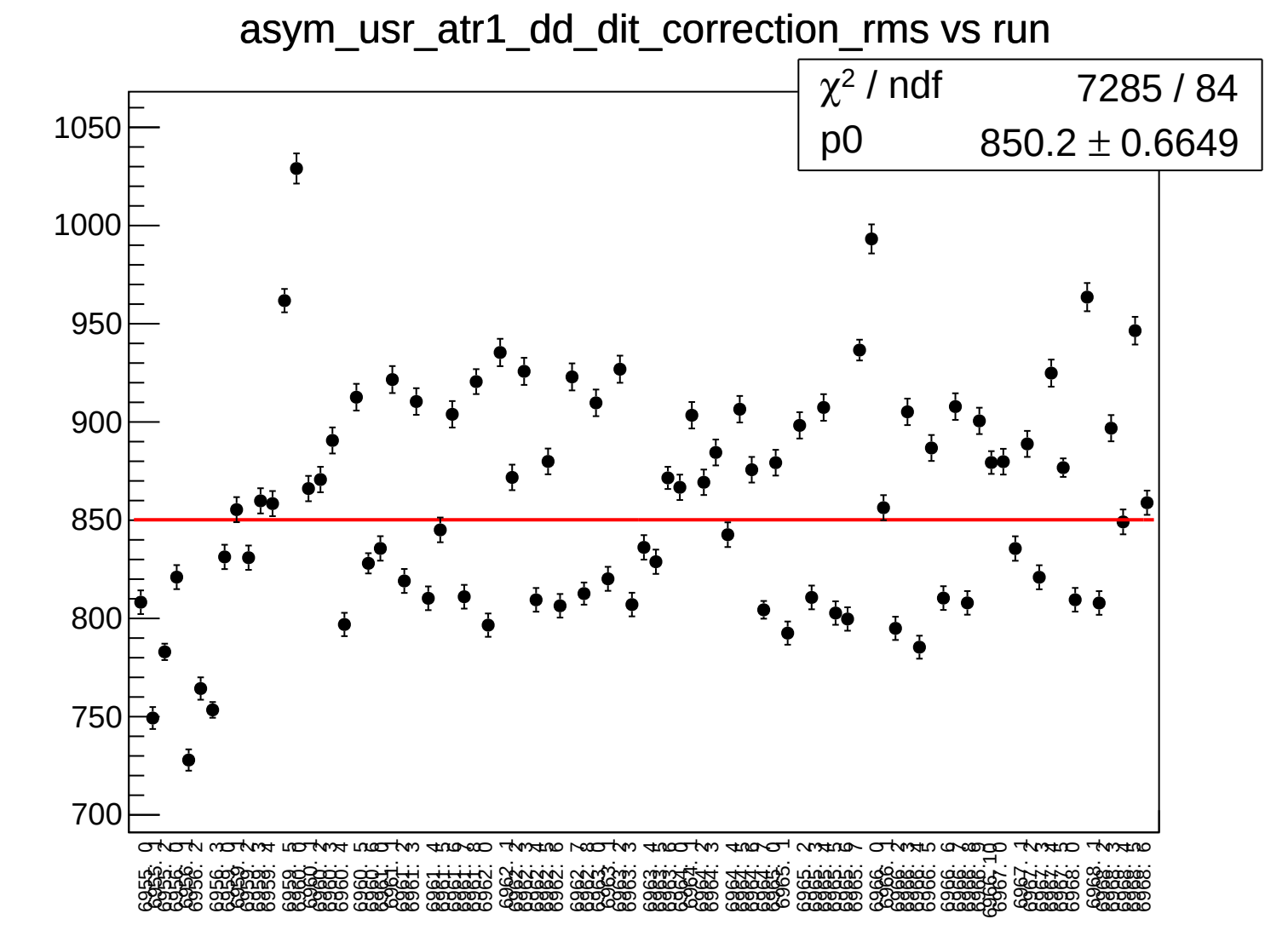

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.42 / 84
p0 −249.1± 1444
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 943.3
Std Dev 0
2
1
0
−1
−2
−3

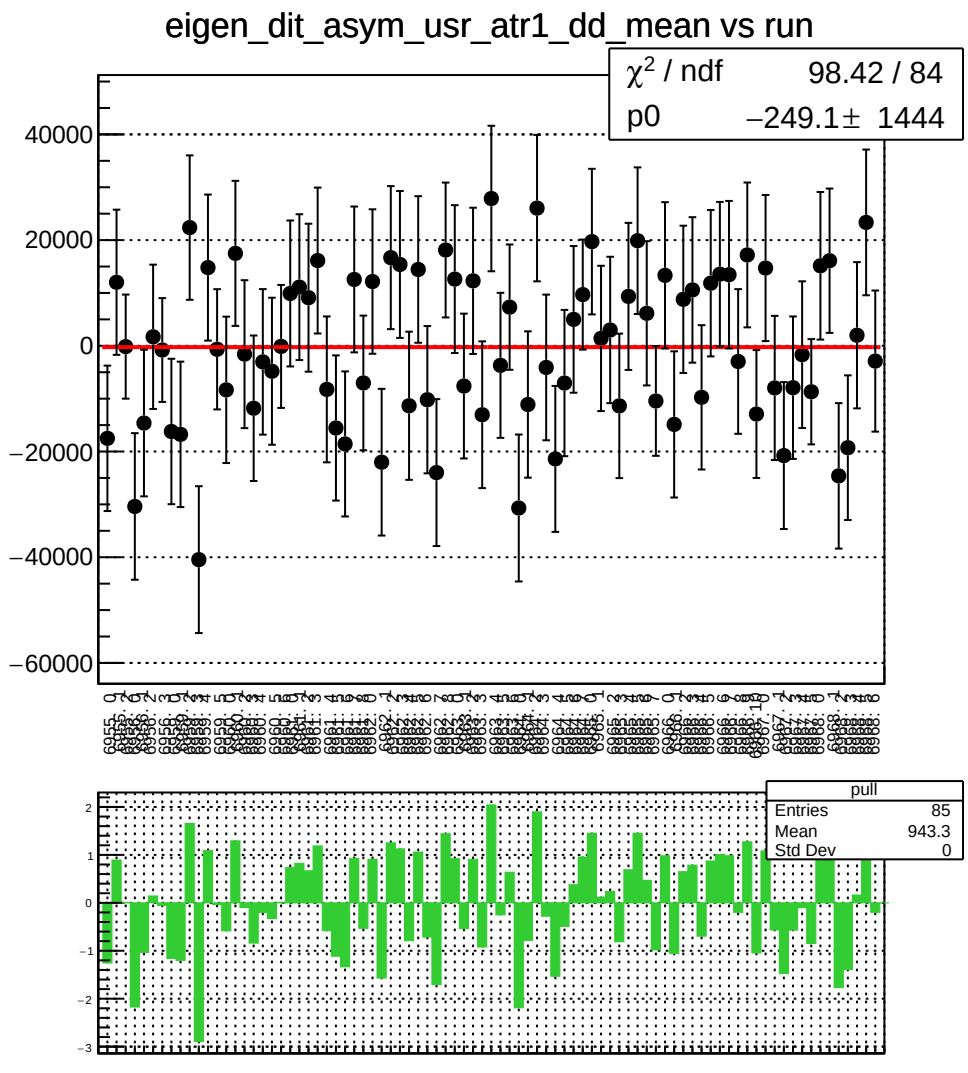

pull1D
Entries 85
Mean 0.003431
Std Dev 1.076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

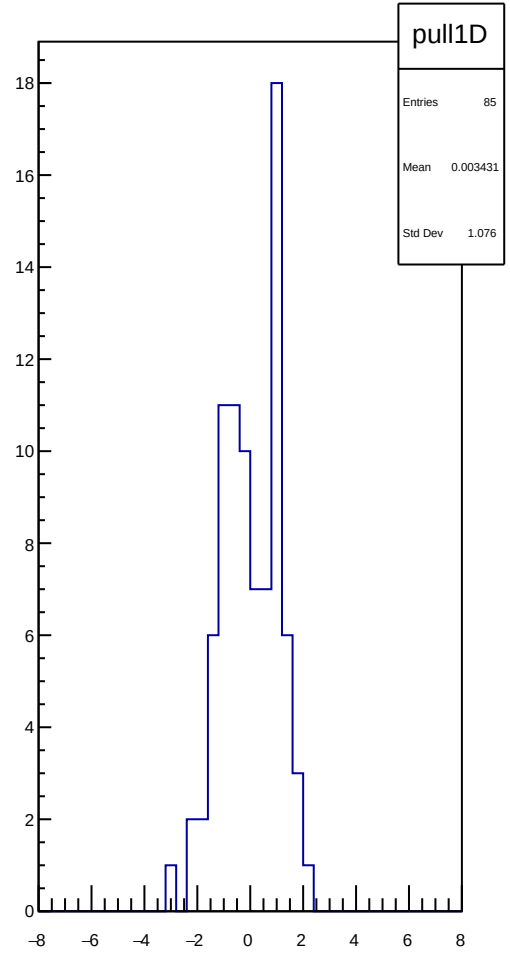

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 90.85 / 84
p0 1309 ± 1.021
1340
1330
1320
1310
1300
1290
1280
1270

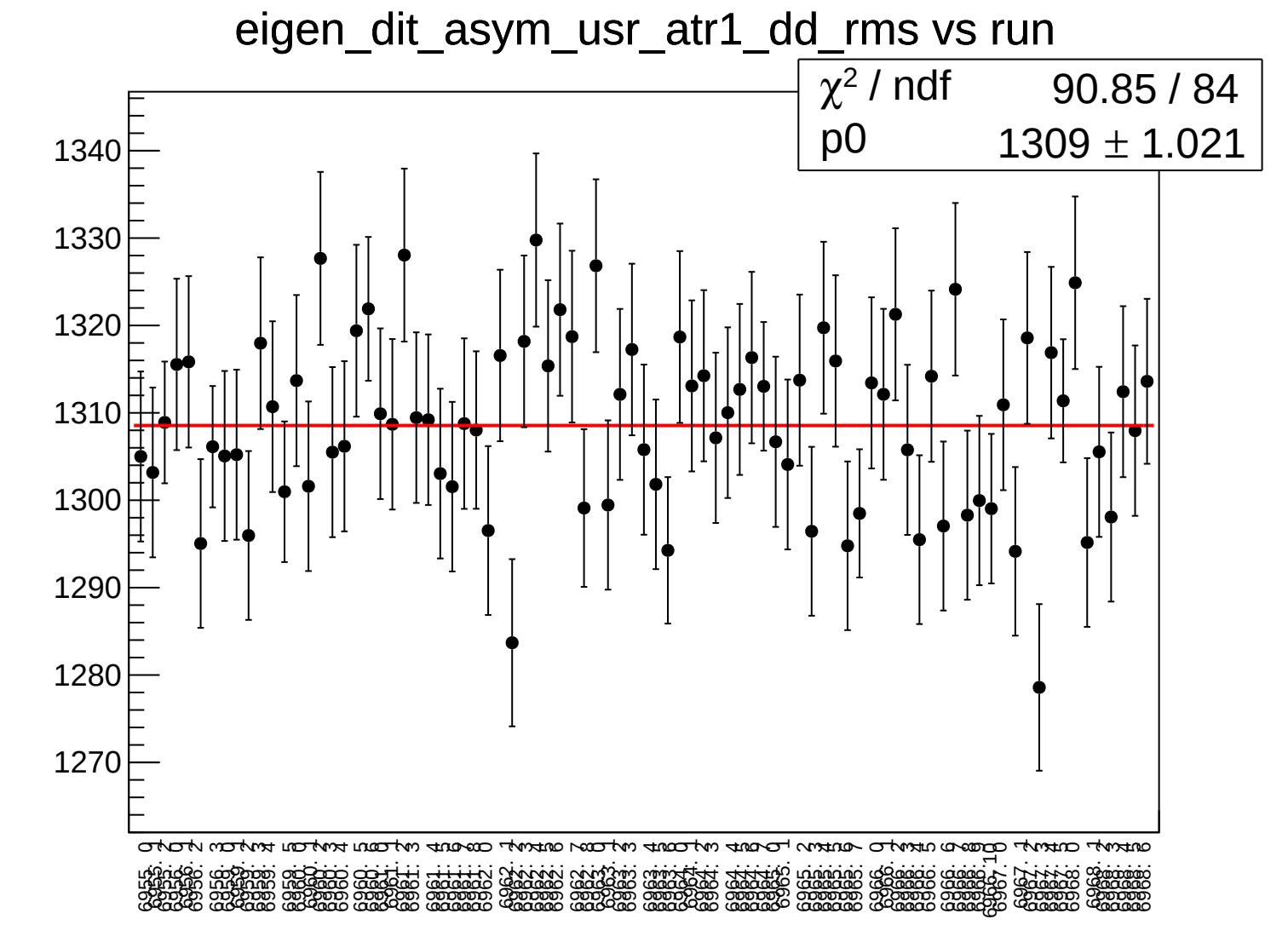

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 99.27 / 84
p0 −103.2 ± 940.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −16.5
Std Dev 0
3
2
1
0
−1
−2

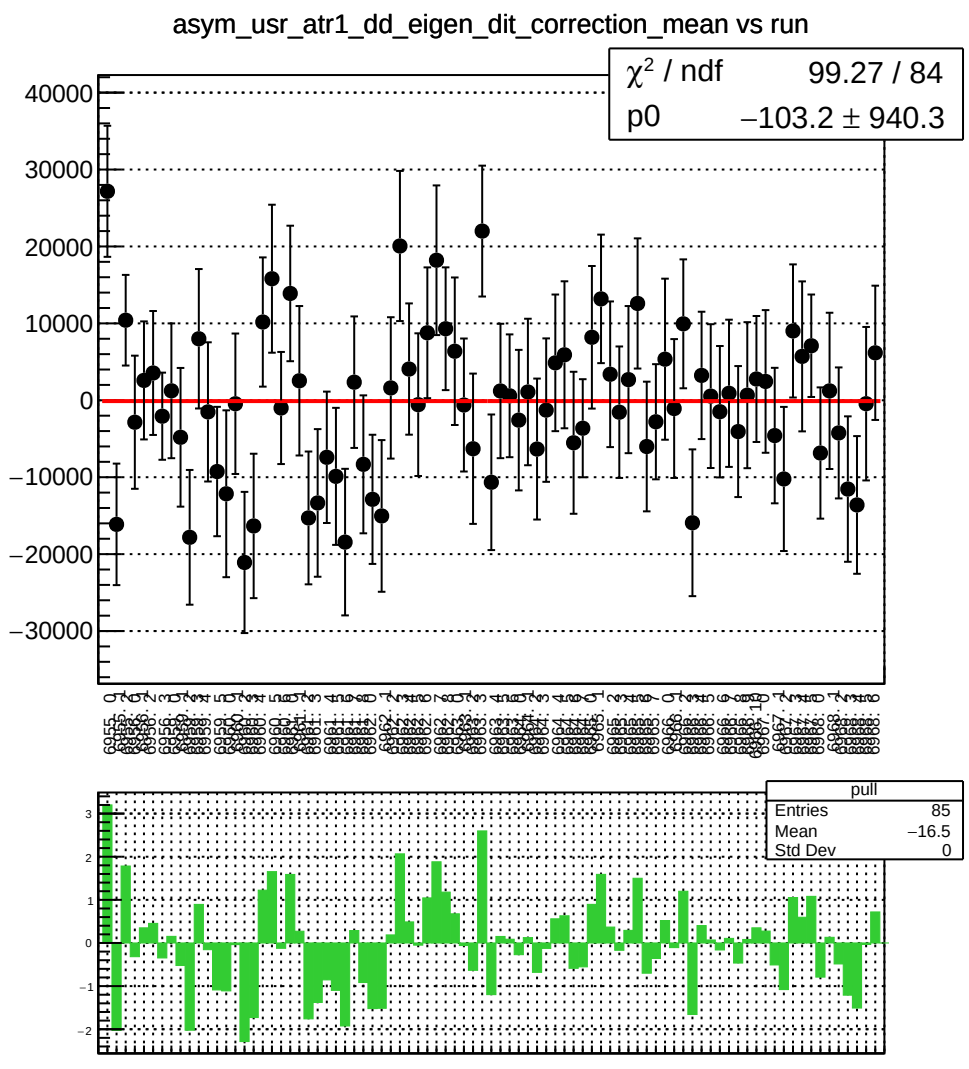

pull1D
Entries 85
Mean −0.01614
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

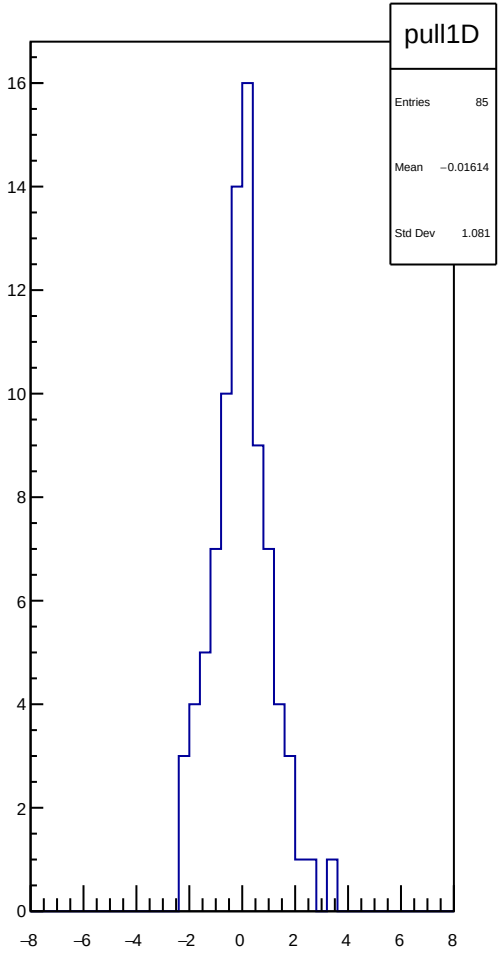

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 7285 / 84
p0 850.2 ± 0.6649
1050
1000
950
900
850
800
750
700

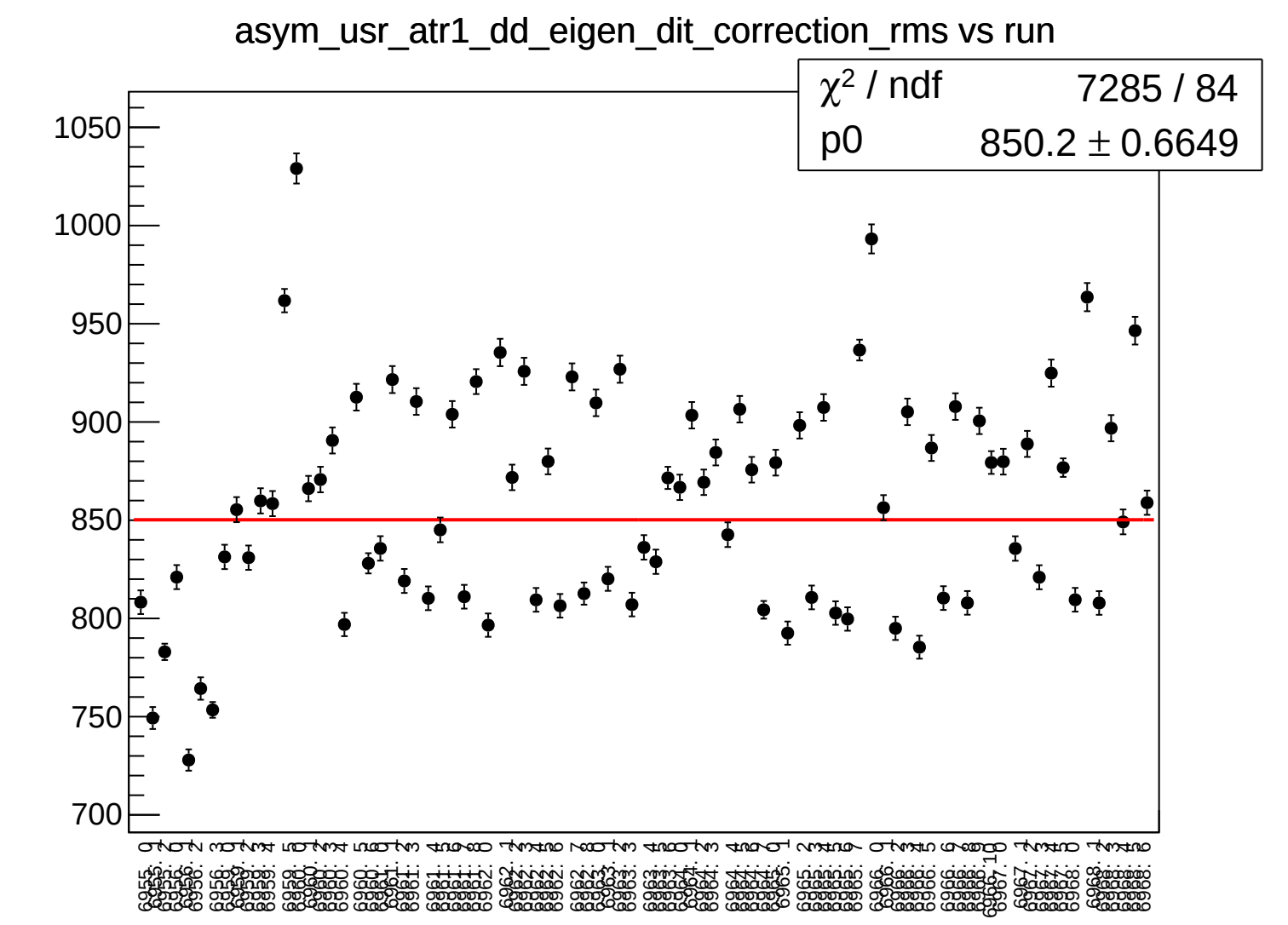

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.42 / 84
p0 −249.1± 1444
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 943.3
Std Dev 0
2
1
0
−1
−2
−3

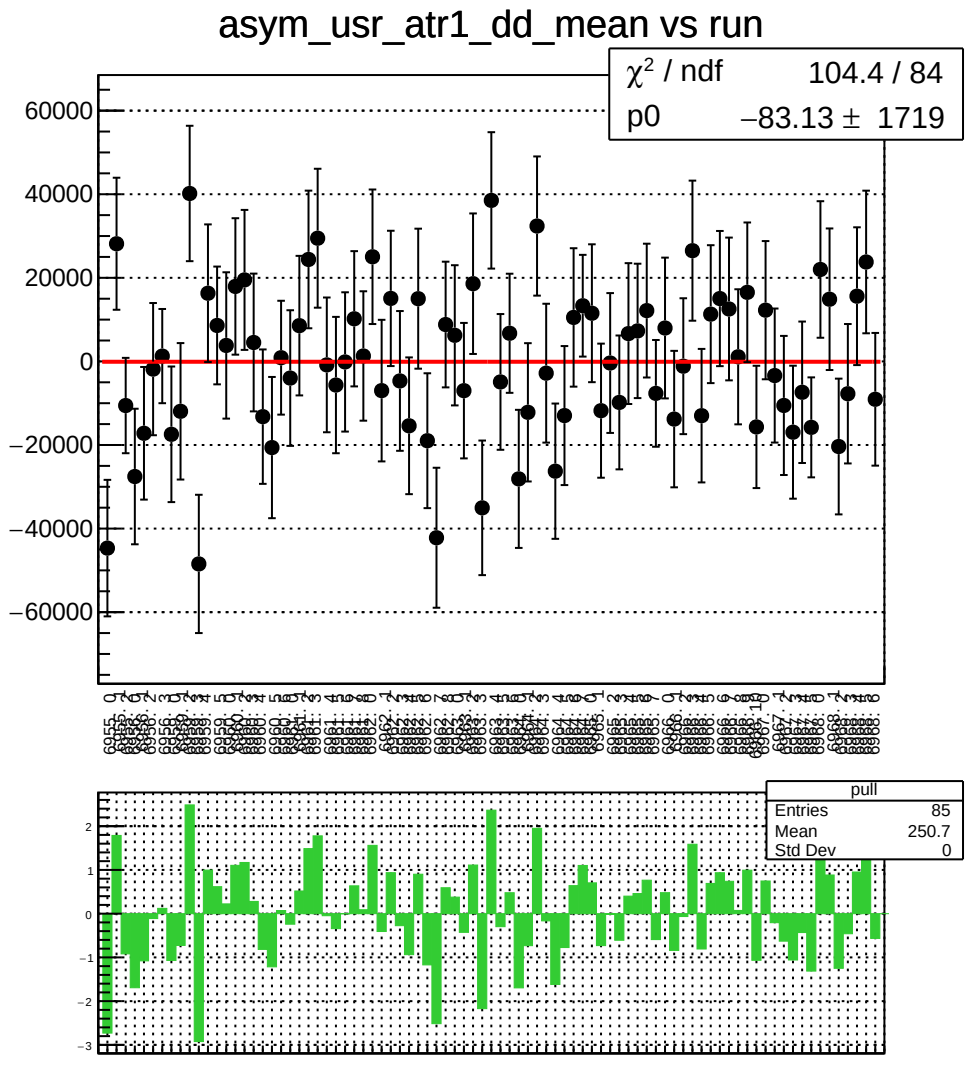

pull1D
Entries 85
Mean 0.003431
Std Dev 1.076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

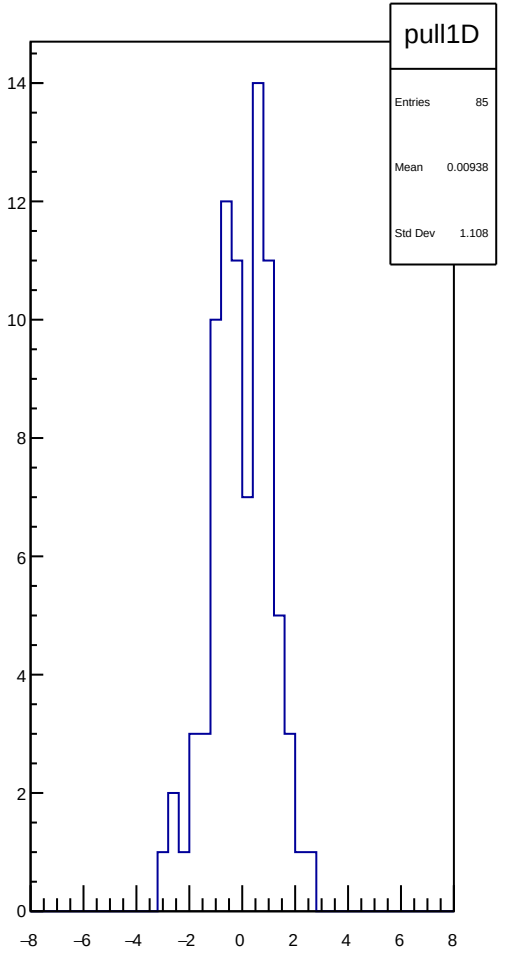

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 90.85 / 84
p0 1309 ± 1.021
1340
1330
1320
1310
1300
1290
1280
1270

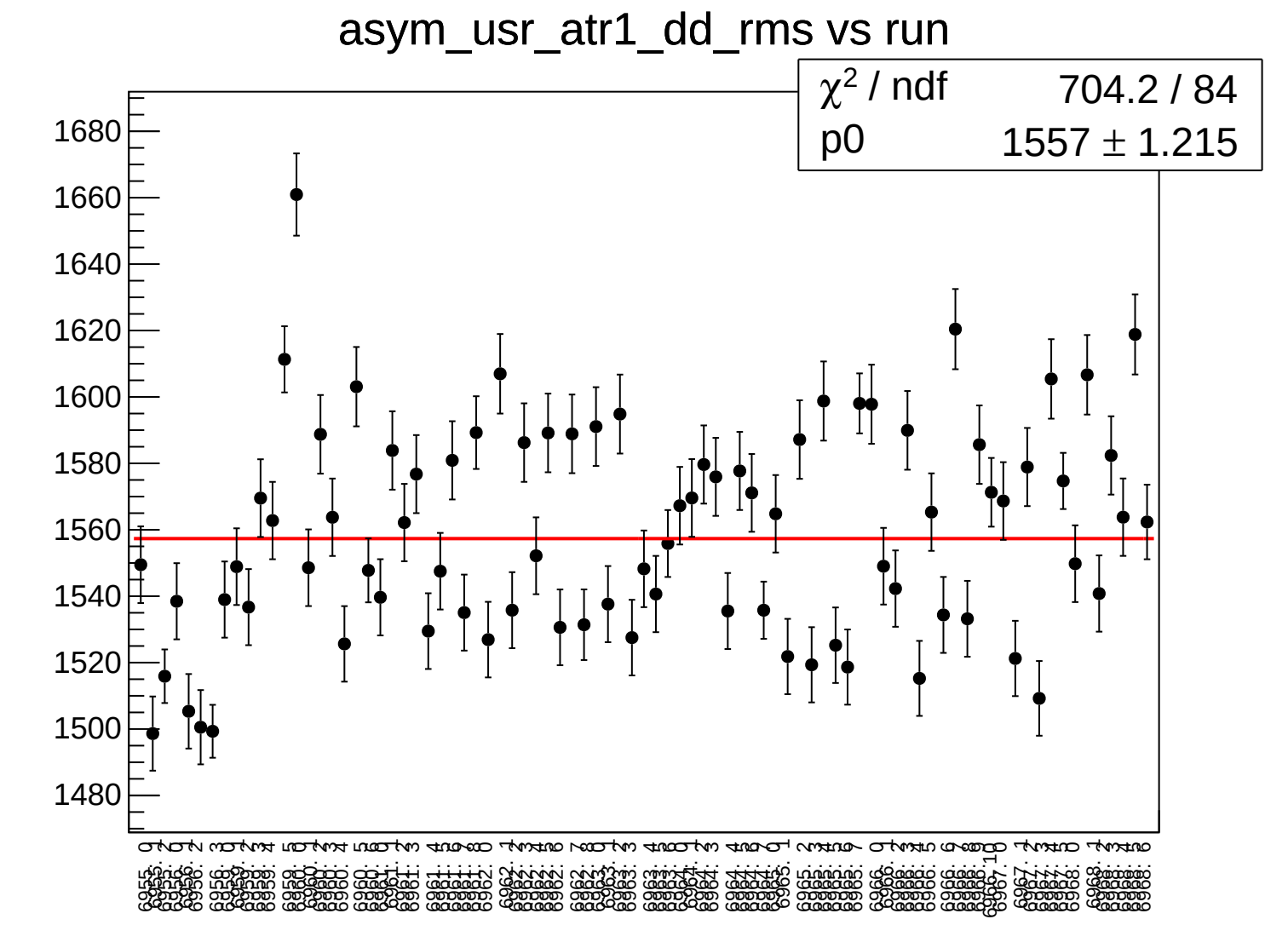

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.27 / 84
p0 −103.2 ± 940.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −16.5
Std Dev 0
3
2
1
0
−1
−2

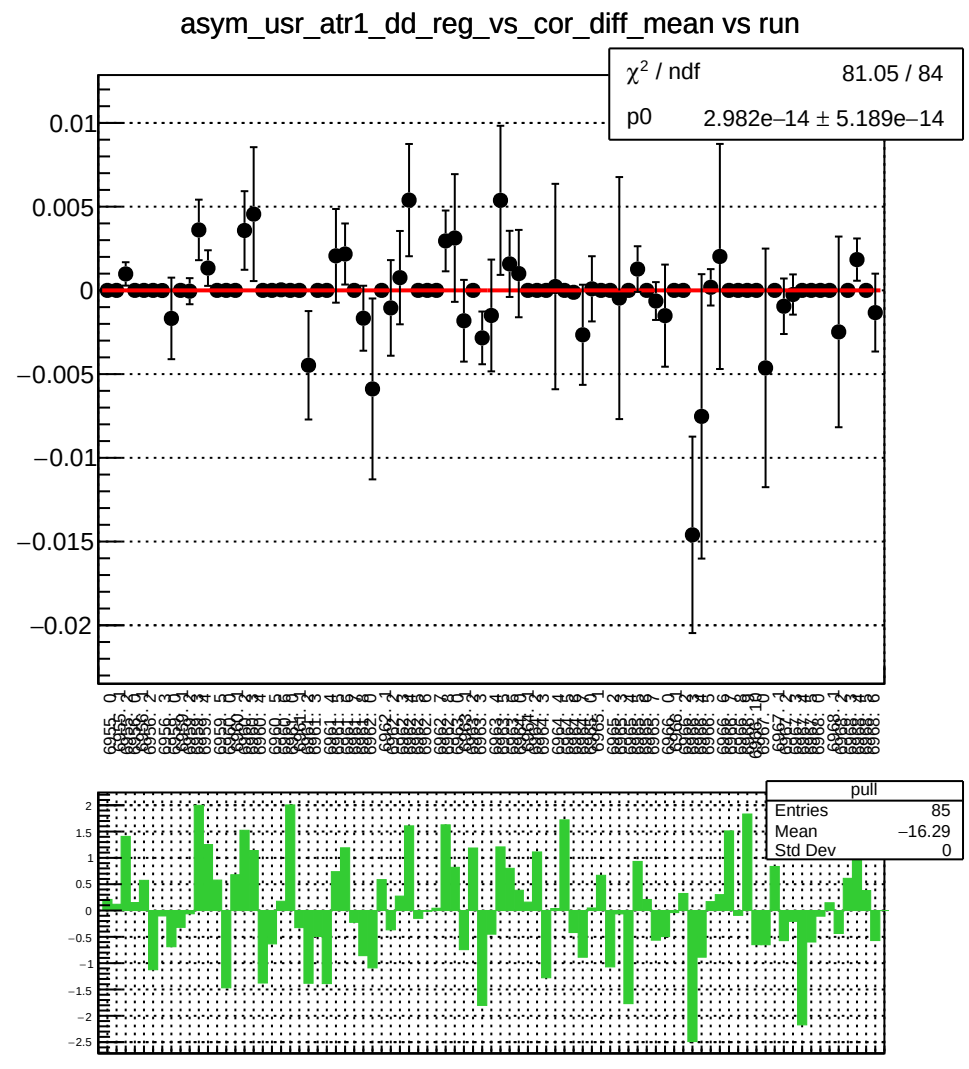

pull1D
Entries 85
Mean −0.01614
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

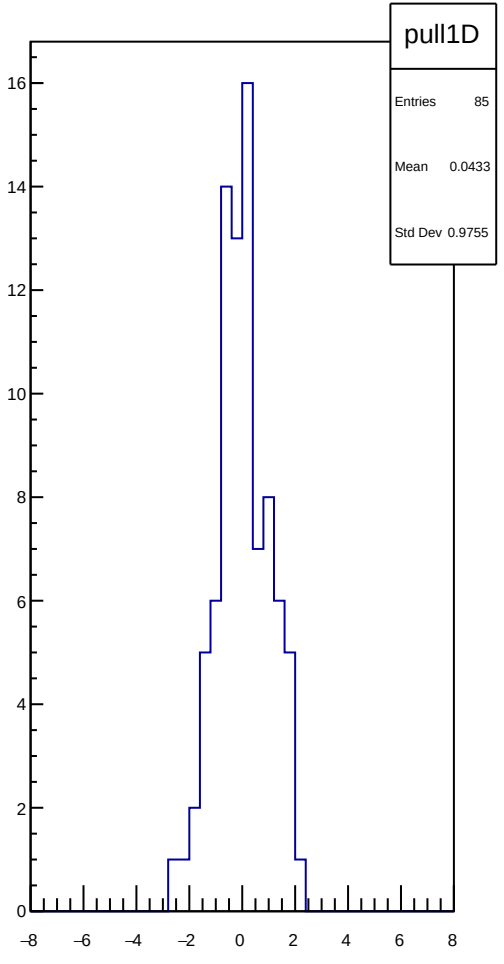

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 7285 / 84
p0 850.2 ± 0.6649
1050
1000
950
900
850
800
750
700

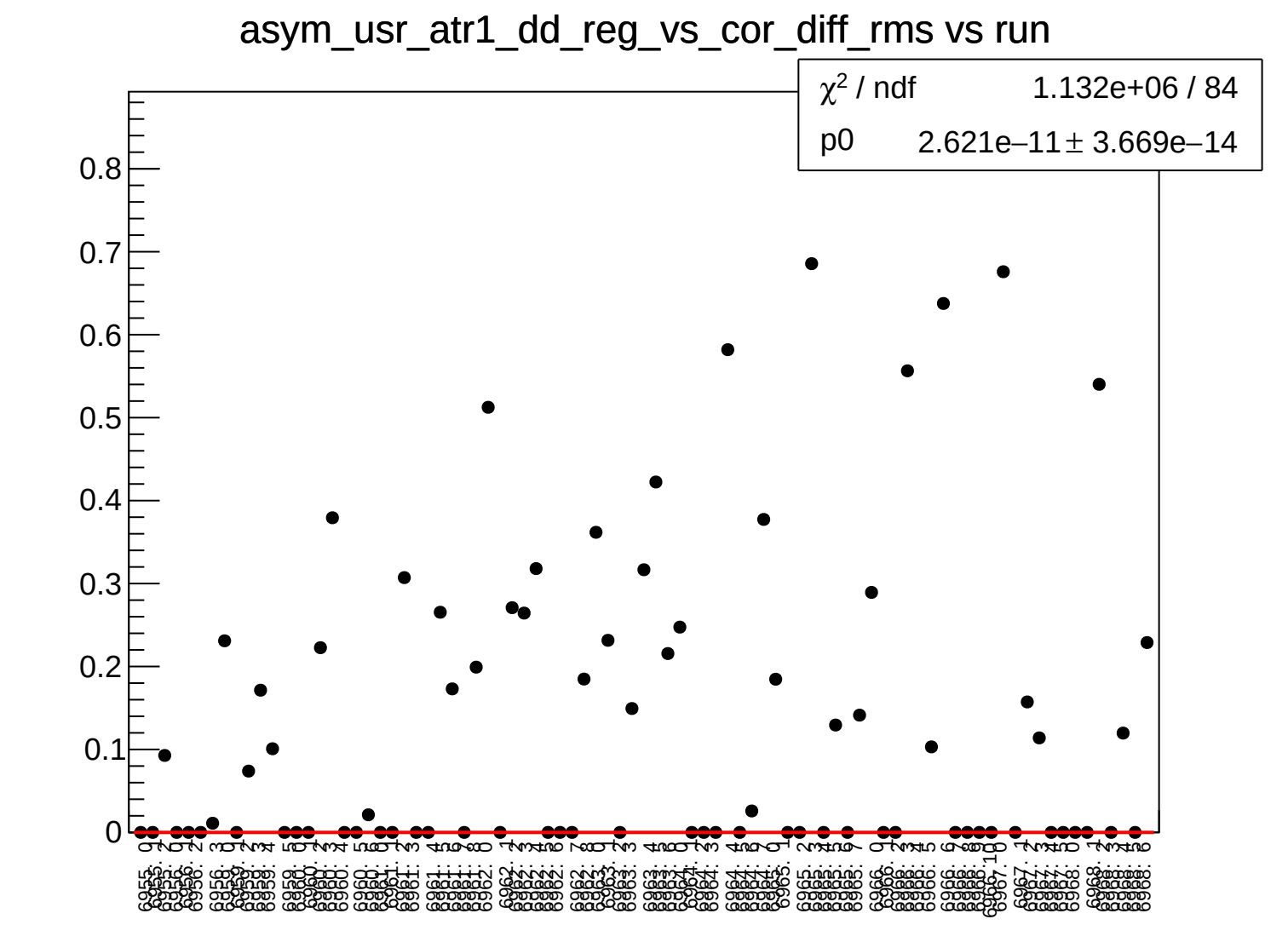

asym_usr_atr1_dd_mean vs run
χ² / ndf 104.4 / 84
p0 −83.13 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 250.7
Std Dev 0
2
1
0
−1
−2
−3

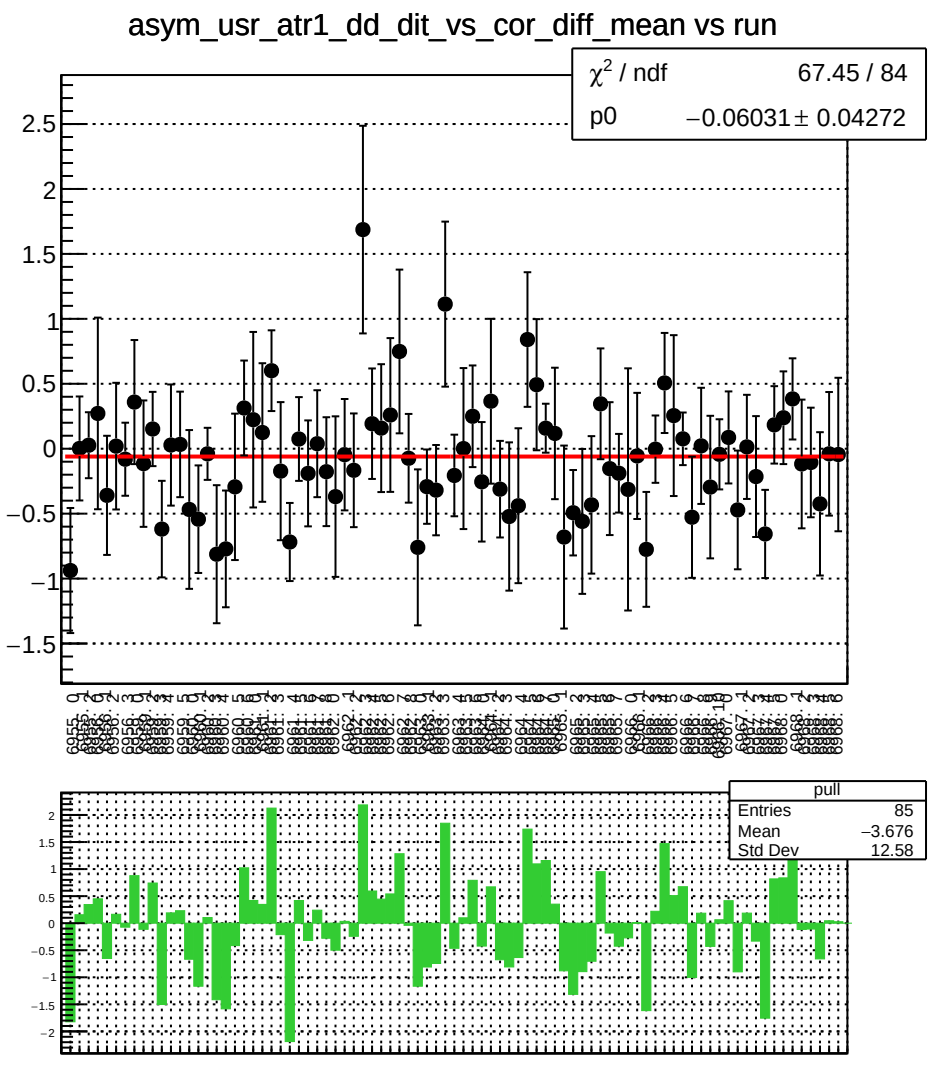

pull1D
Entries 85
Mean 0.00938
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

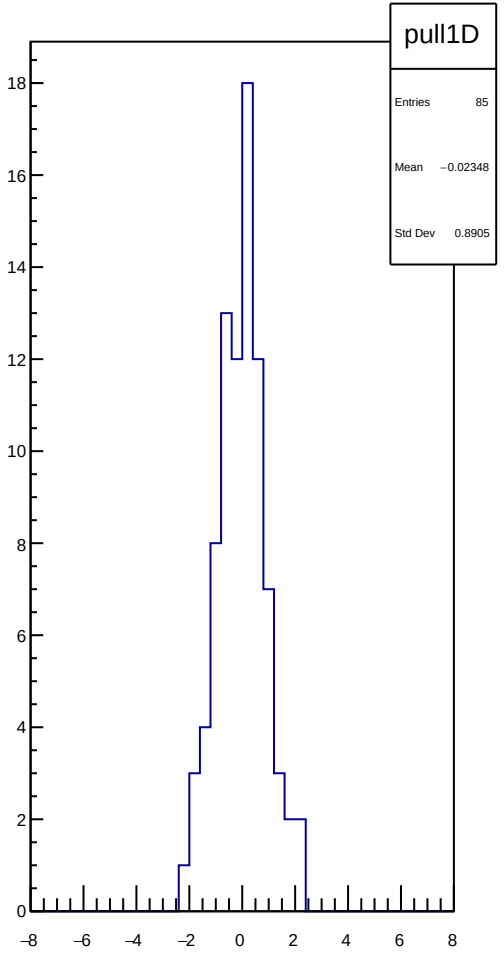

asym_usr_atr1_dd_rms vs run
χ² / ndf 704.2 / 84
p0 1557 ± 1.215
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

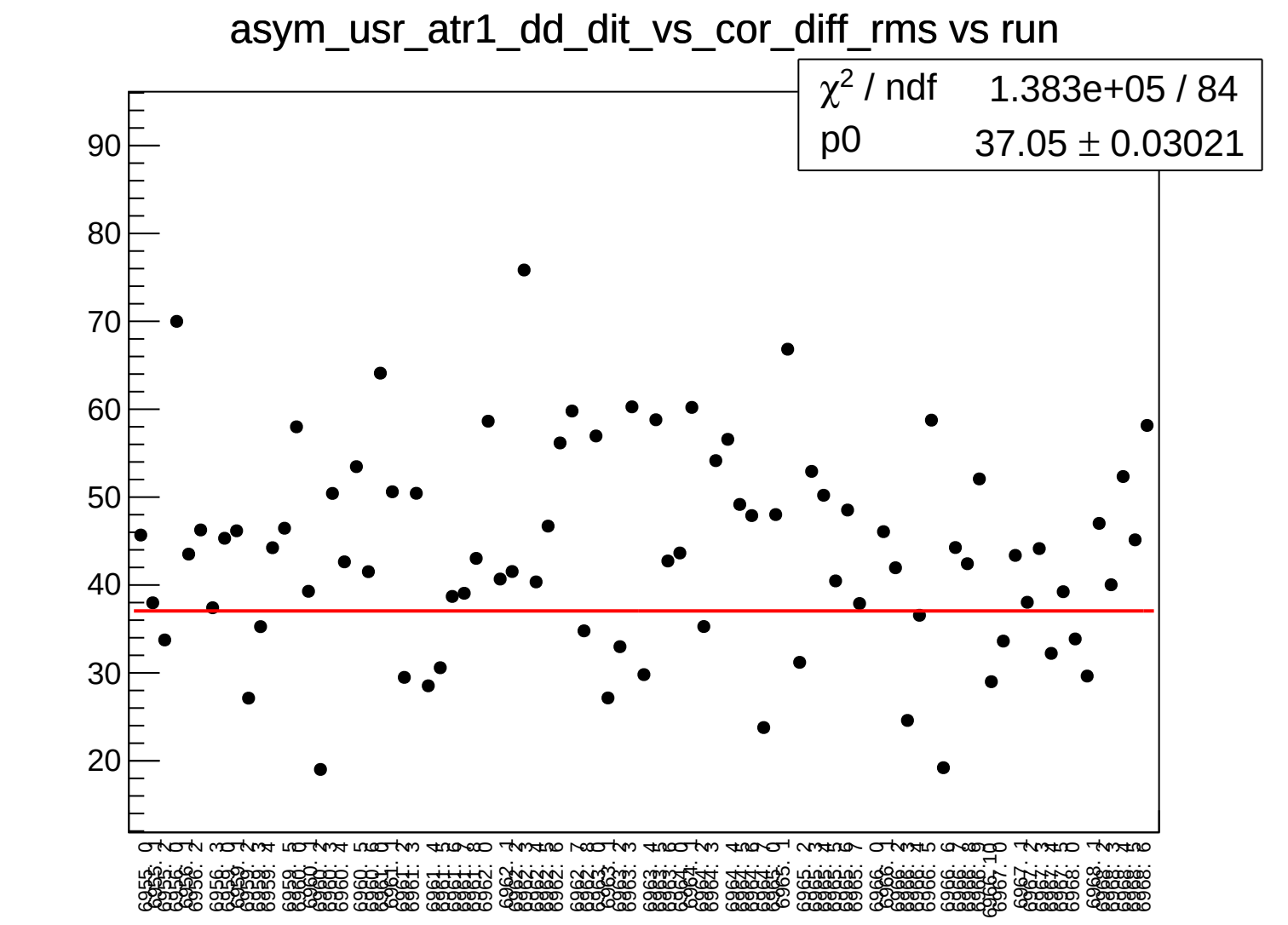

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.05 / 84
p0 2.982e−14 ± 5.189e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 85
Mean −16.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

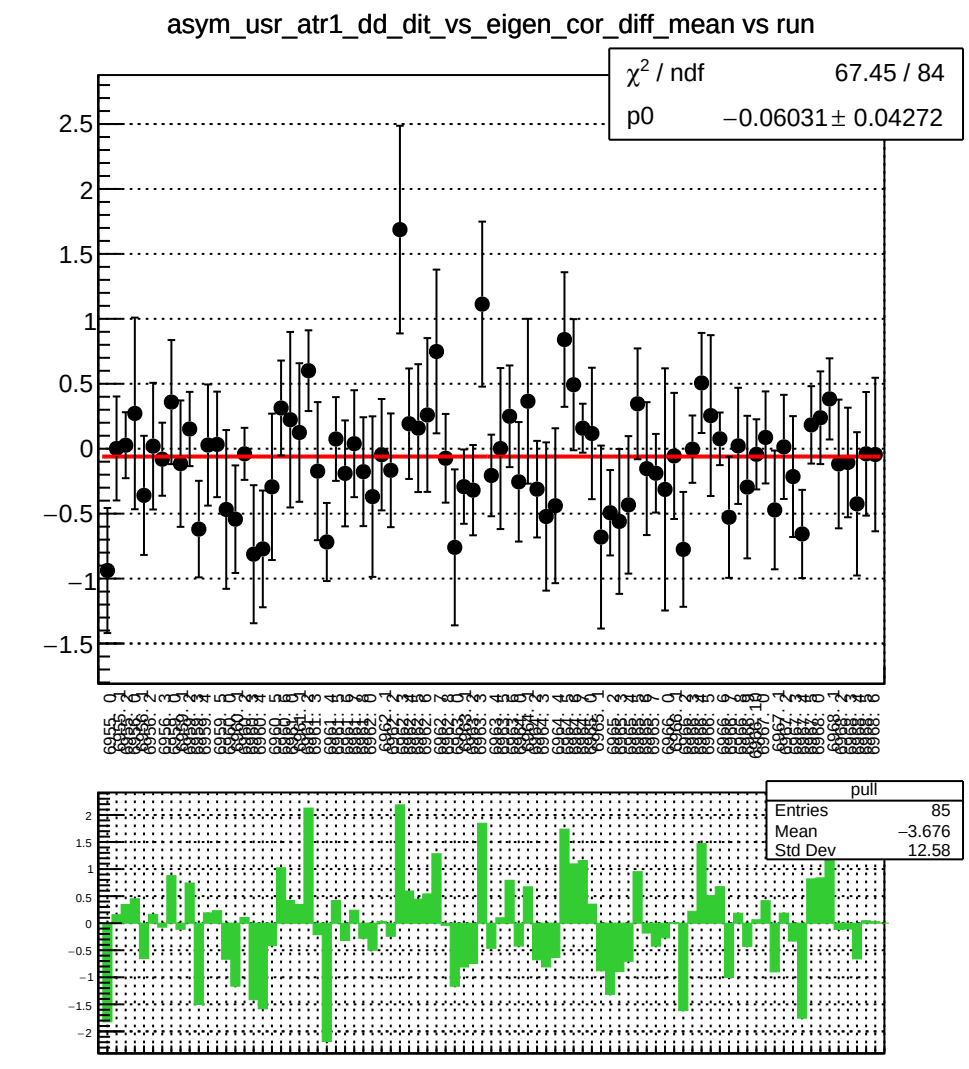

pull1D
Entries 85
Mean 0.0433
Std Dev 0.9755
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

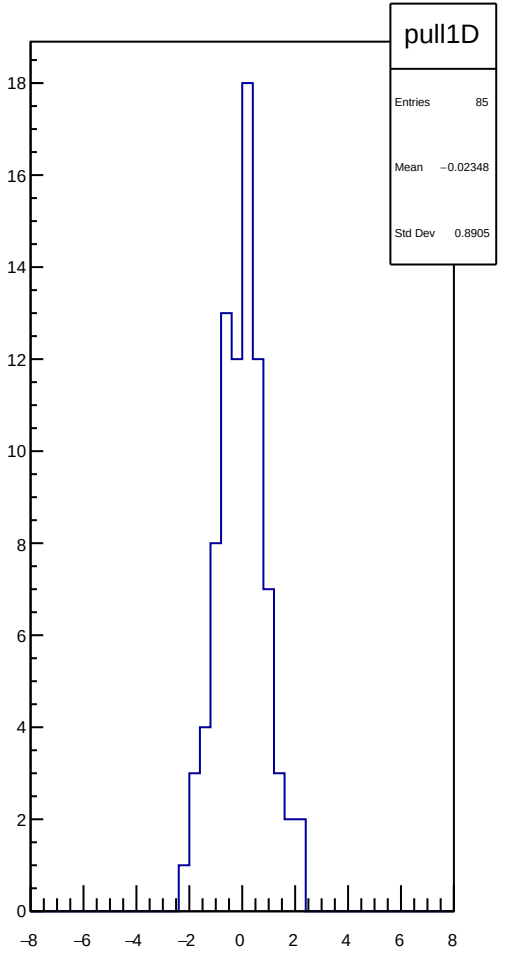

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.132e+06 / 84
p0 2.621e−11 ± 3.669e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

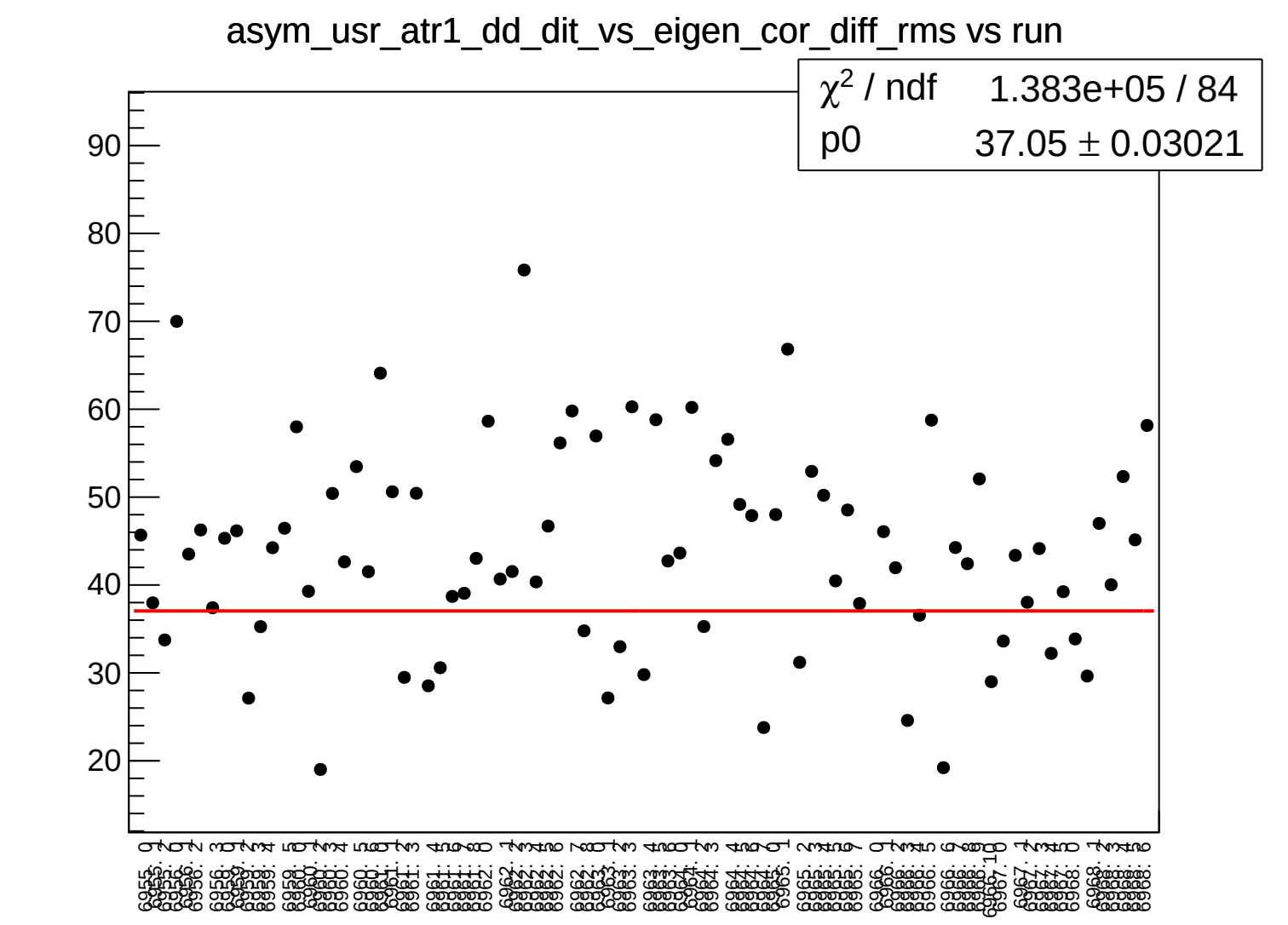

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.45 / 84
p0 −0.06031 ± 0.04272
pull
Entries 85
Mean −3.676
Std Dev 12.58

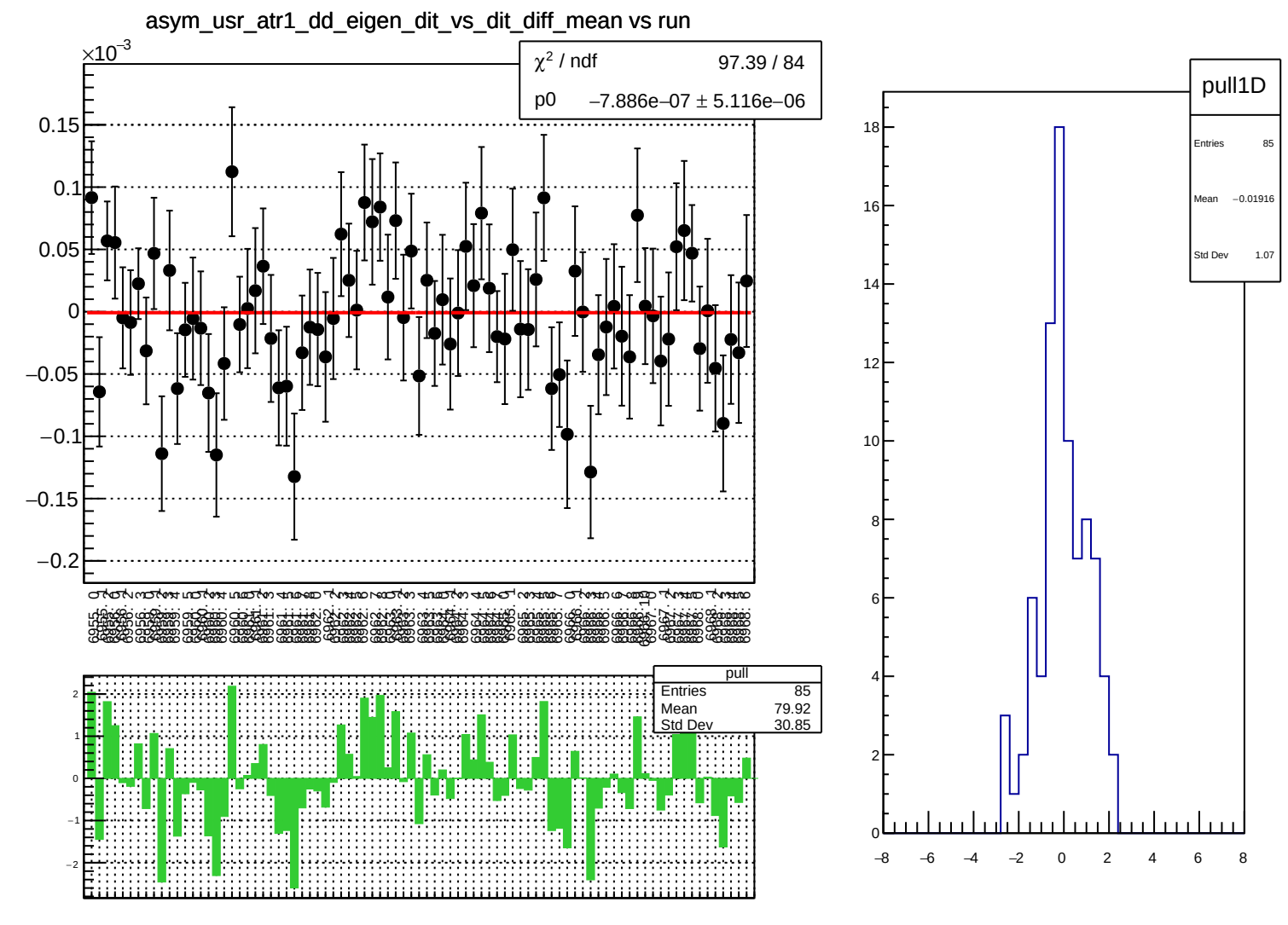

pull1D
Entries 85
Mean −0.02348
Std Dev 0.8905

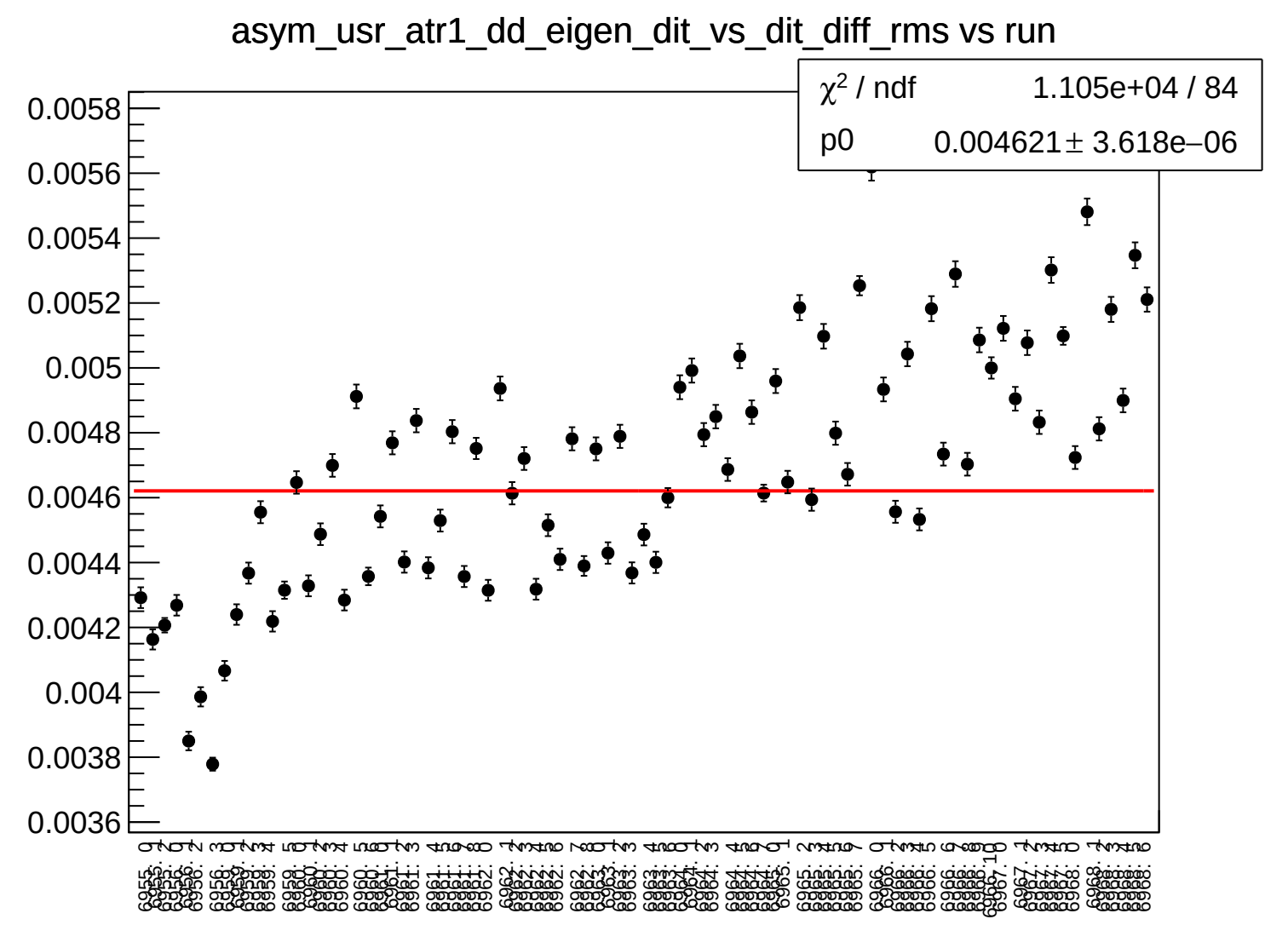

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.383e+05 / 84
p0 37.05 ± 0.03021
90
80
70
60
50
40
30
20

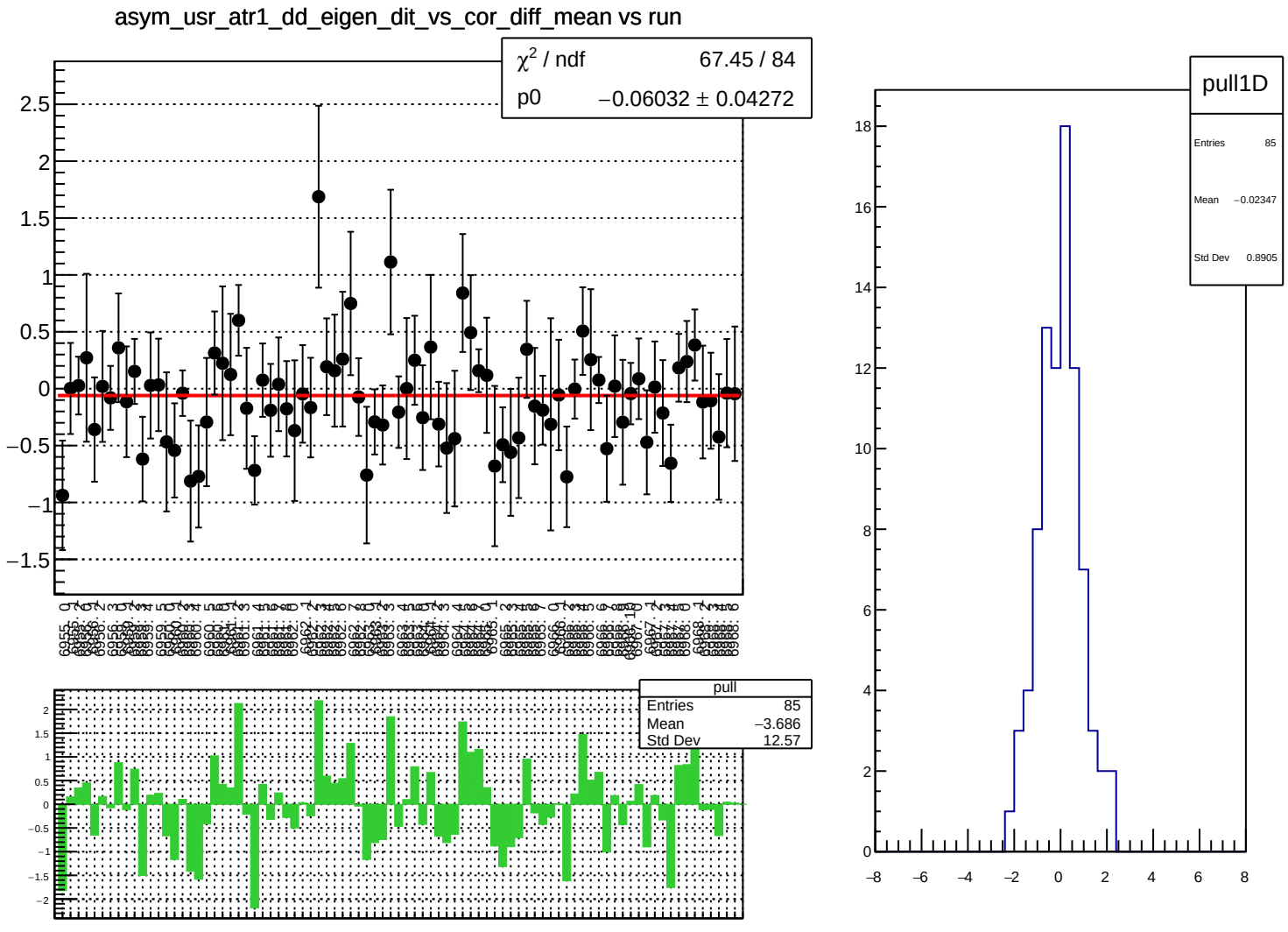

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.45 / 84
p0 −0.06031 ± 0.04272
pull
Entries 85
Mean −3.676
Std Dev 12.58

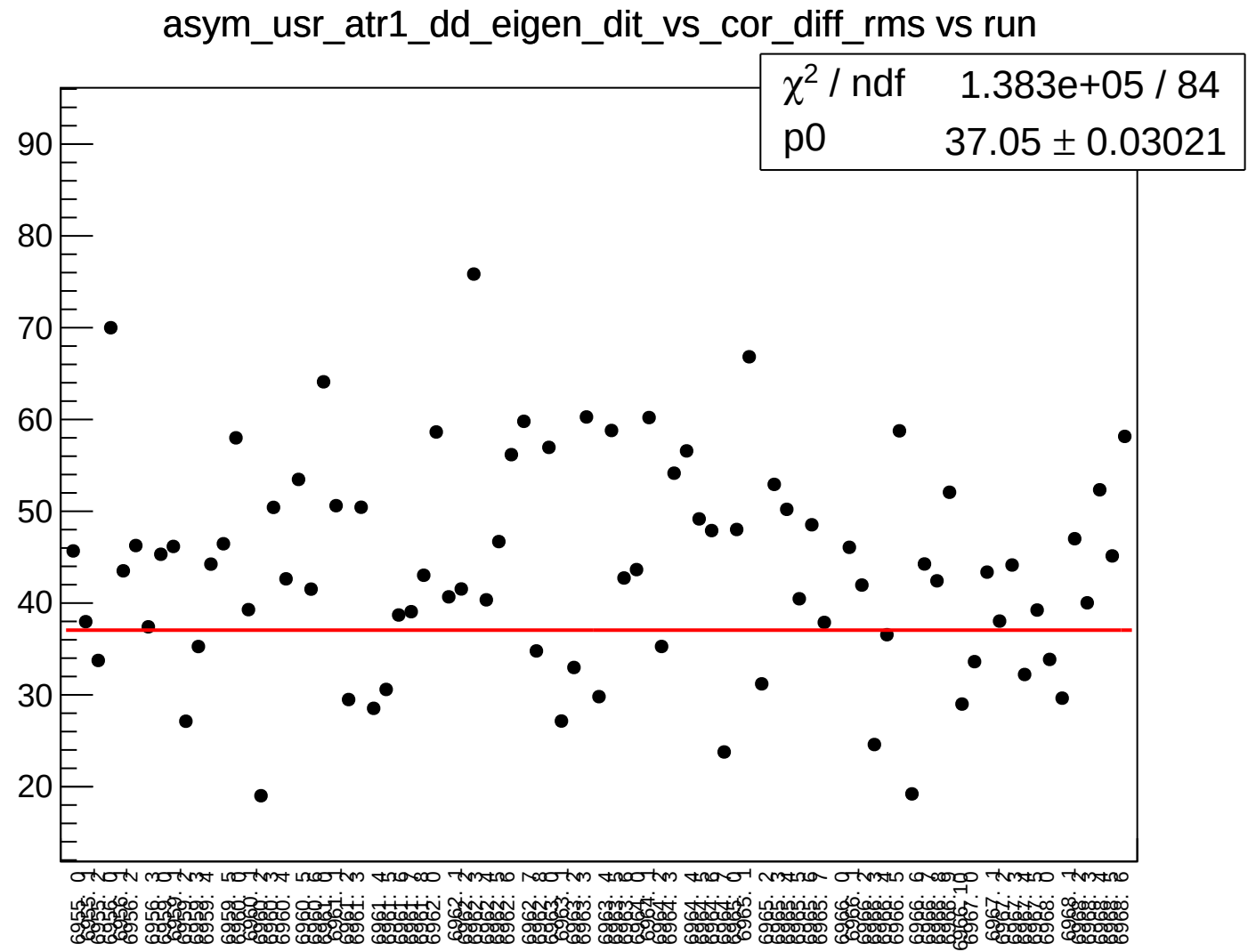

pull1D
Entries 85
Mean −0.02348
Std Dev 0.8905

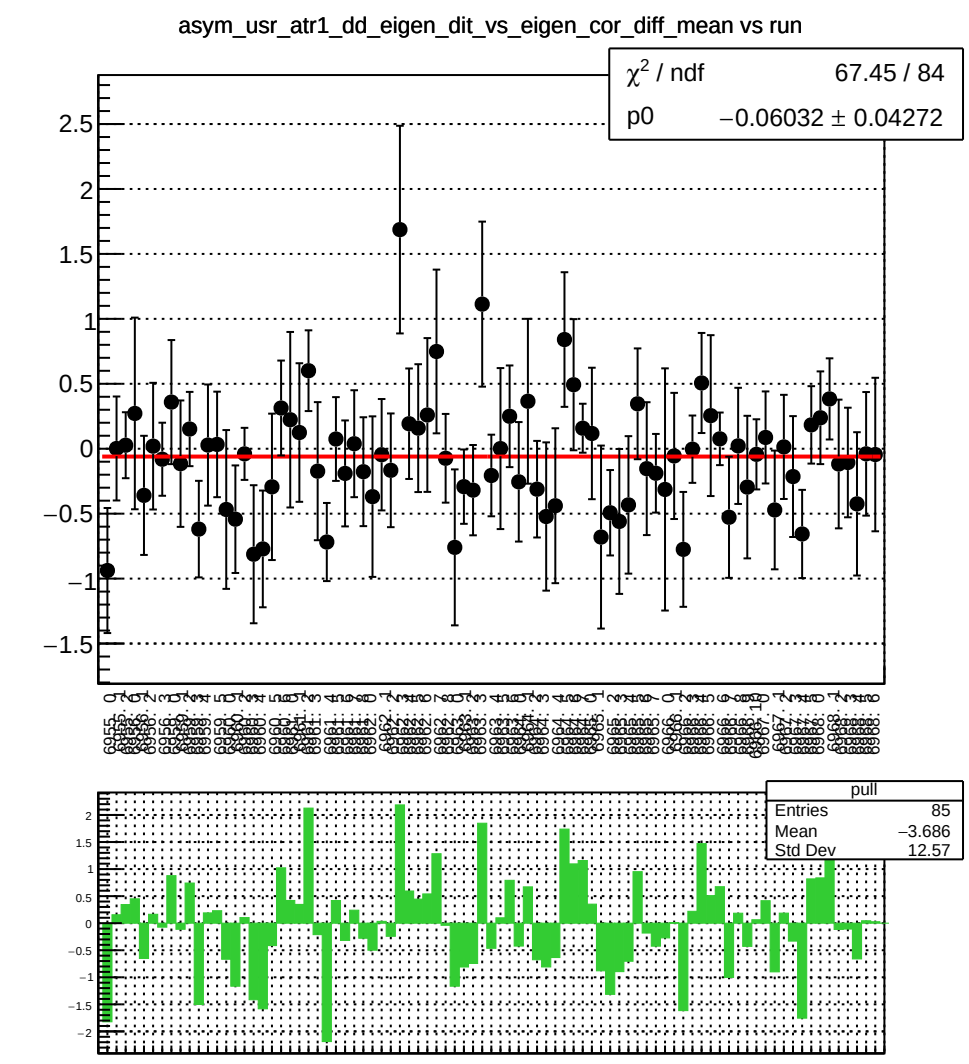

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.383e+05 / 84
p0 37.05 ± 0.03021
90
80
70
60
50
40
30
20

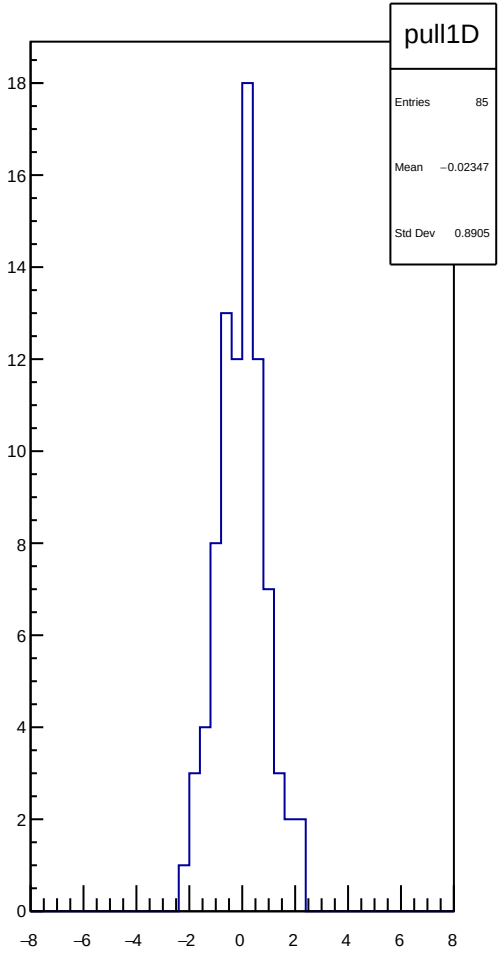

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.39 / 84
p0 −7.886e−07 ± 5.116e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 85
Mean 79.92
Std Dev 30.85
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01916
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

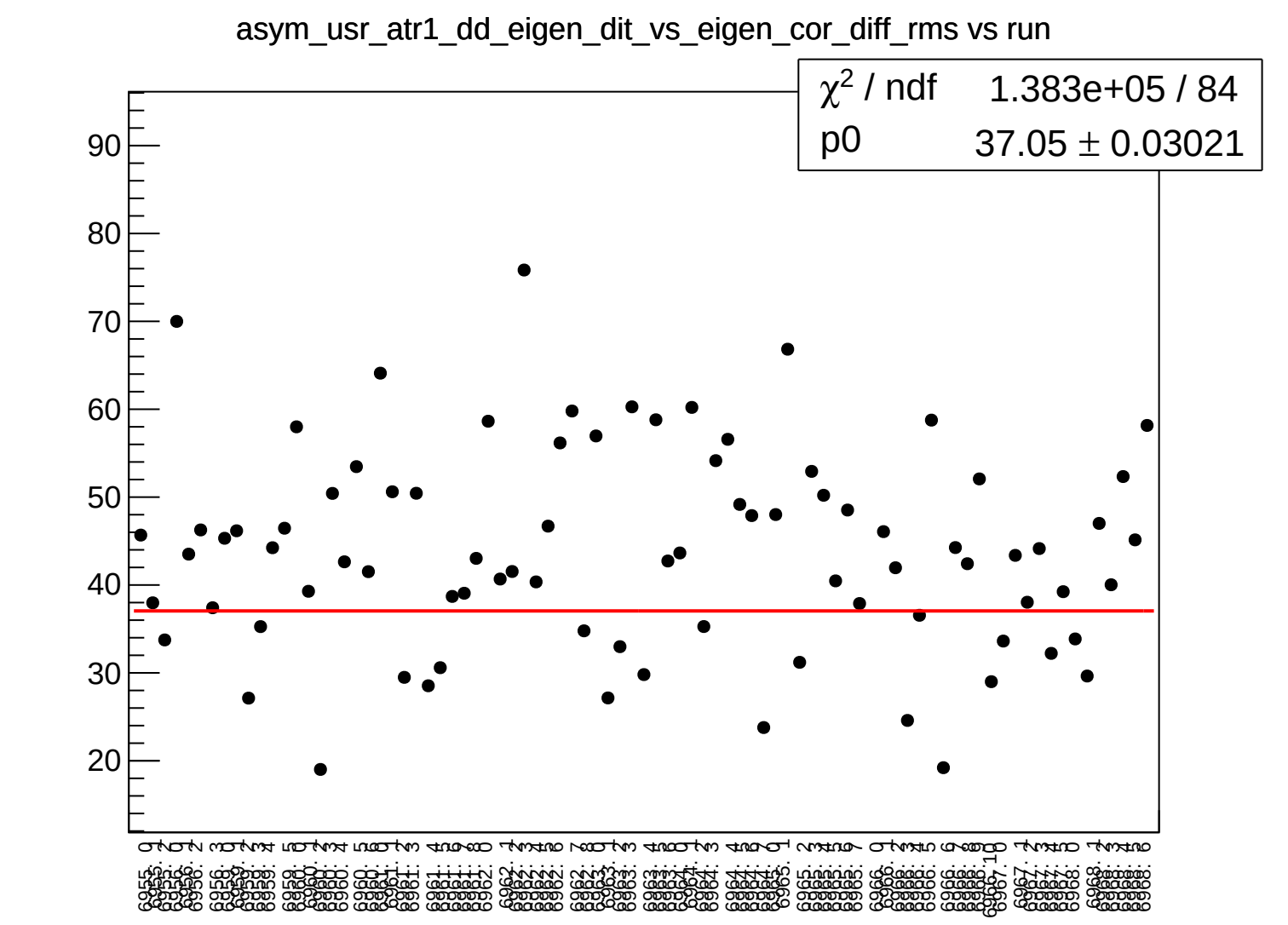

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.105e+04 / 84
p0 0.004621 ± 3.618e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

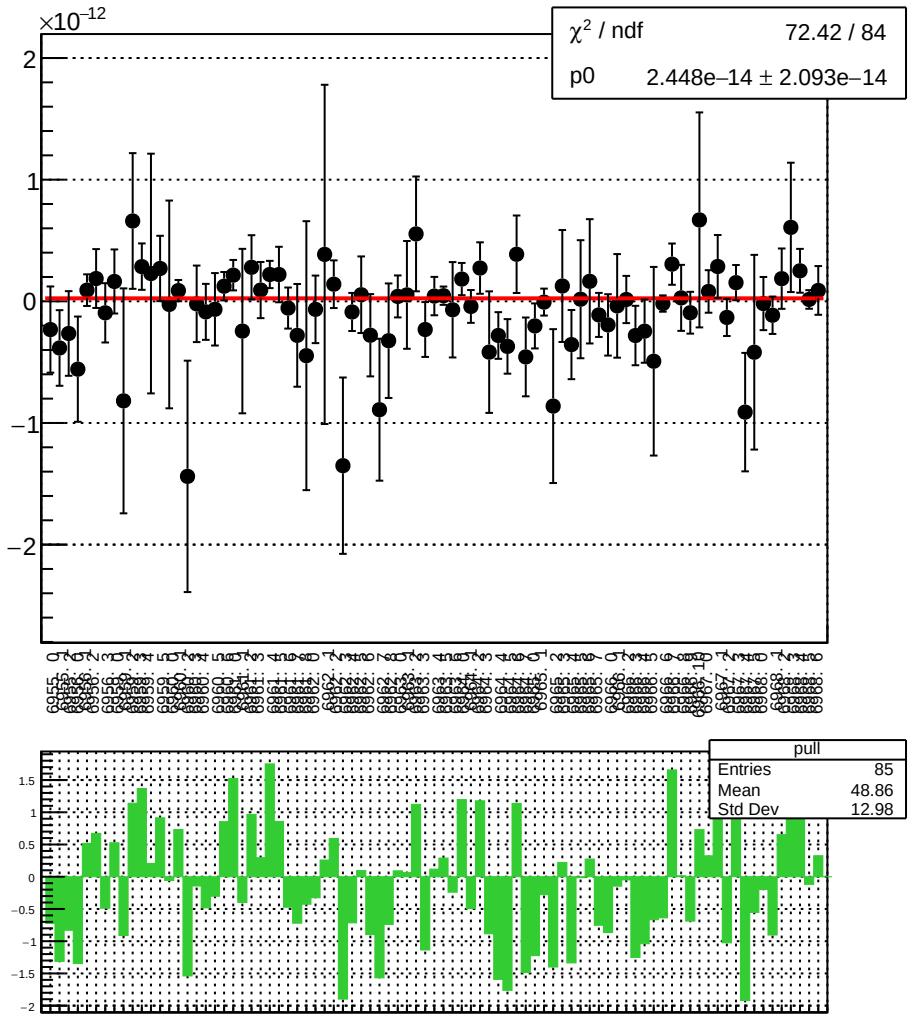

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.45 / 84
p0 −0.06032 ± 0.04272
pull
Entries 85
Mean −3.686
Std Dev 12.57
pull1D
Entries 85
Mean −0.02347
Std Dev 0.8905

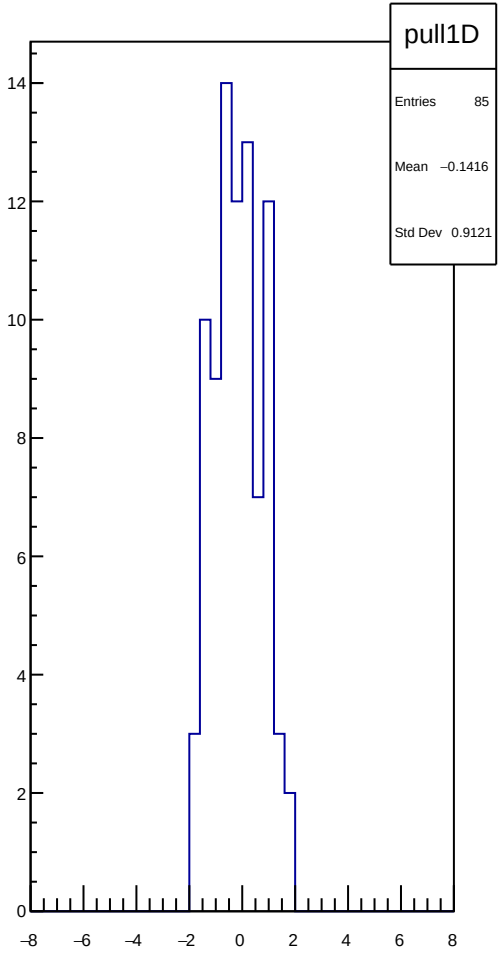

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.383e+05 / 84
p0 37.05 ± 0.03021
90
80
70
60
50
40
30
20

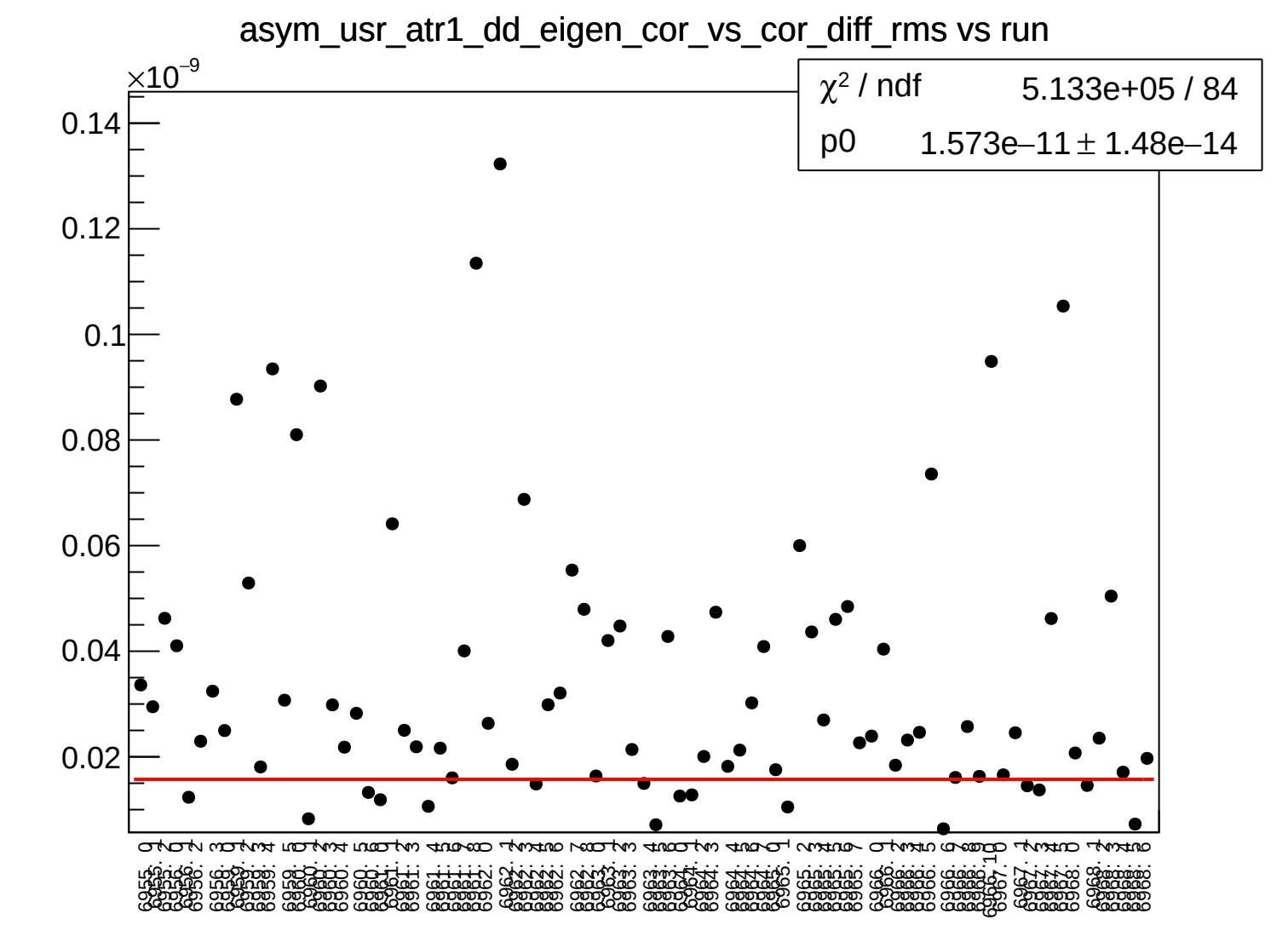

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.45 / 84
p0 −0.06032 ± 0.04272
pull
Entries 85
Mean −3.686
Std Dev 12.57

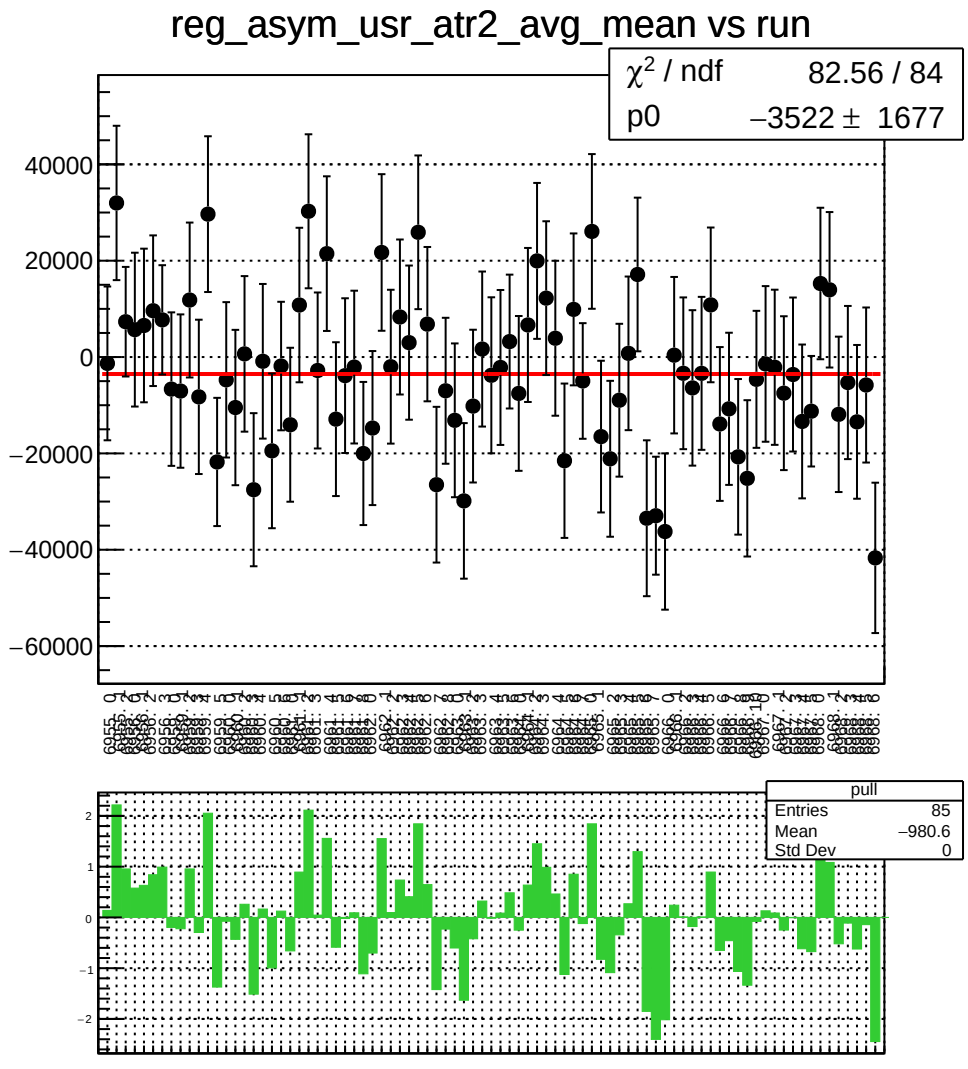

pull1D
Entries 85
Mean −0.02347
Std Dev 0.8905

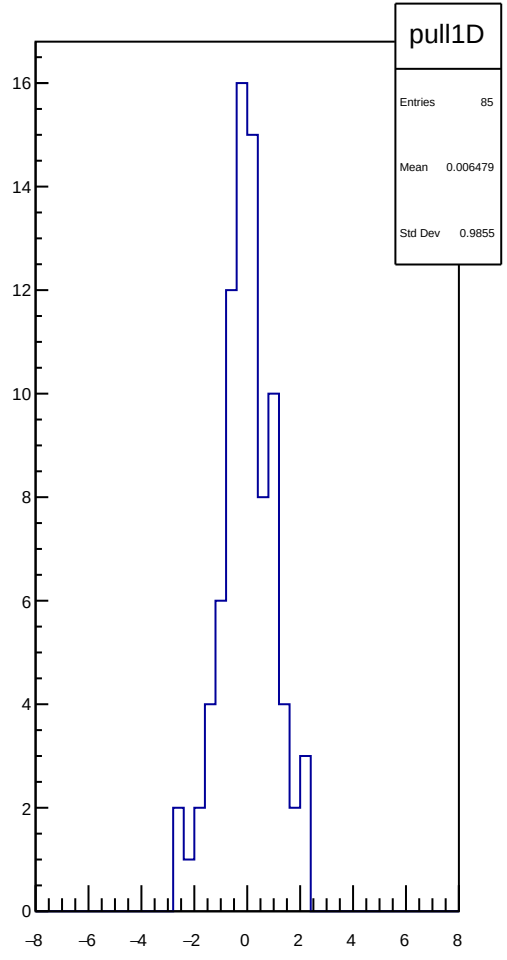

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.383e+05 / 84
p0 37.05 ± 0.03021
90
80
70
60
50
40
30
20

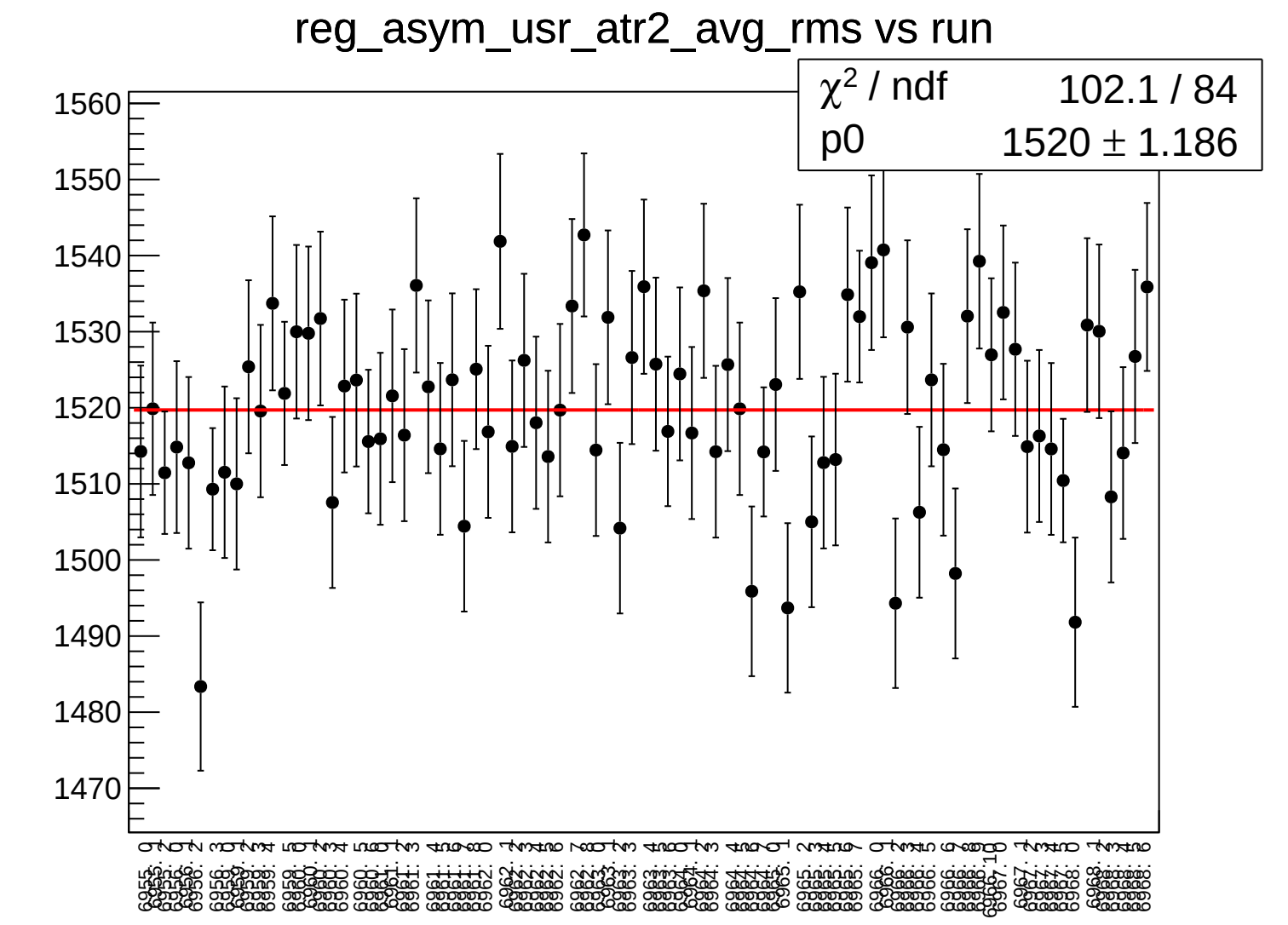

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.42 / 84
p0 2.448e−14 ± 2.093e−14
pull
Entries 85
Mean 48.86
Std Dev 12.98

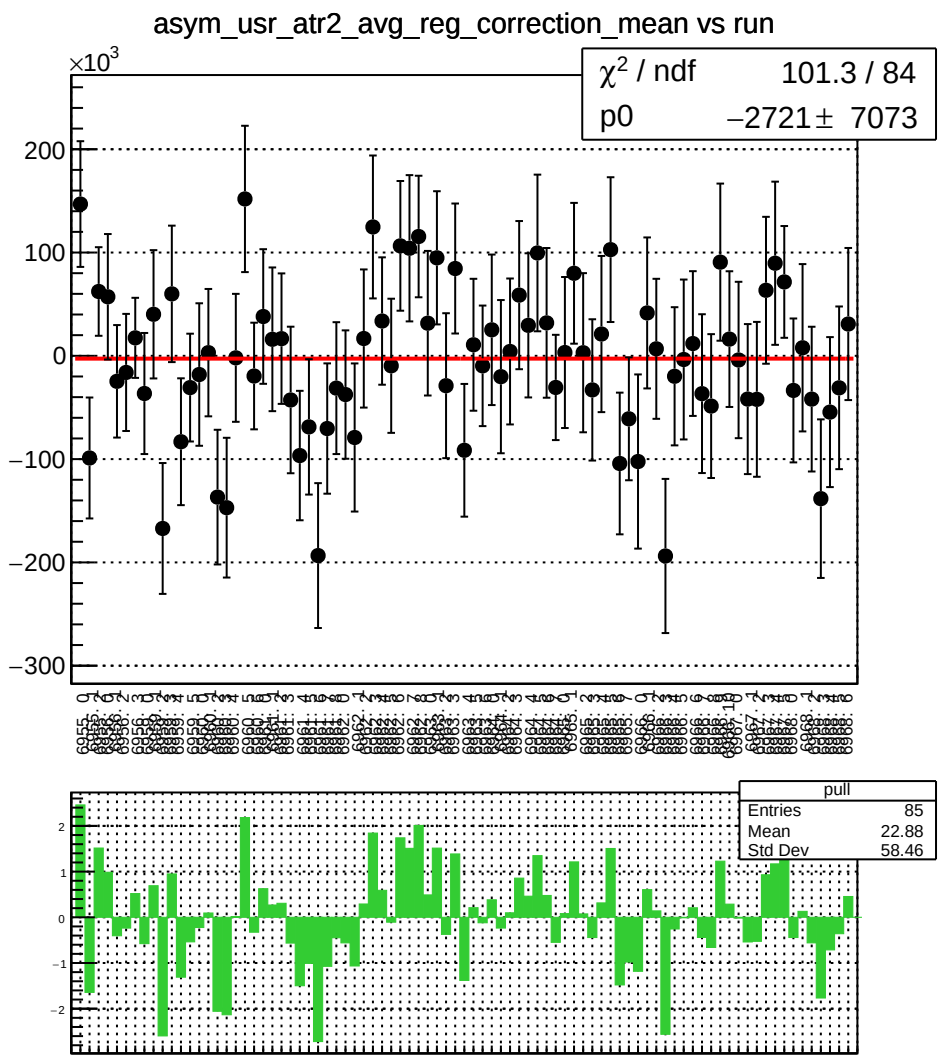

pull1D
Entries 85
Mean −0.1416
Std Dev 0.9121

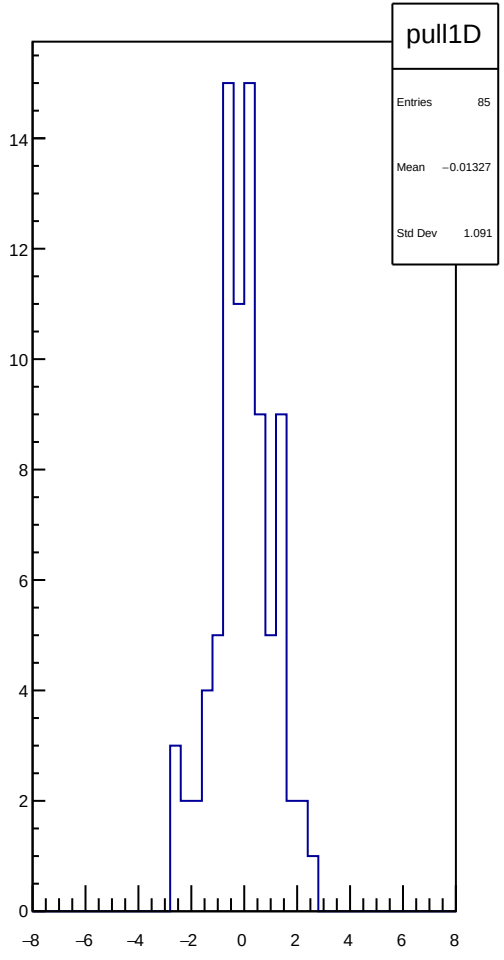

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.133e+05 / 84
p0 1.573e−11 ± 1.48e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

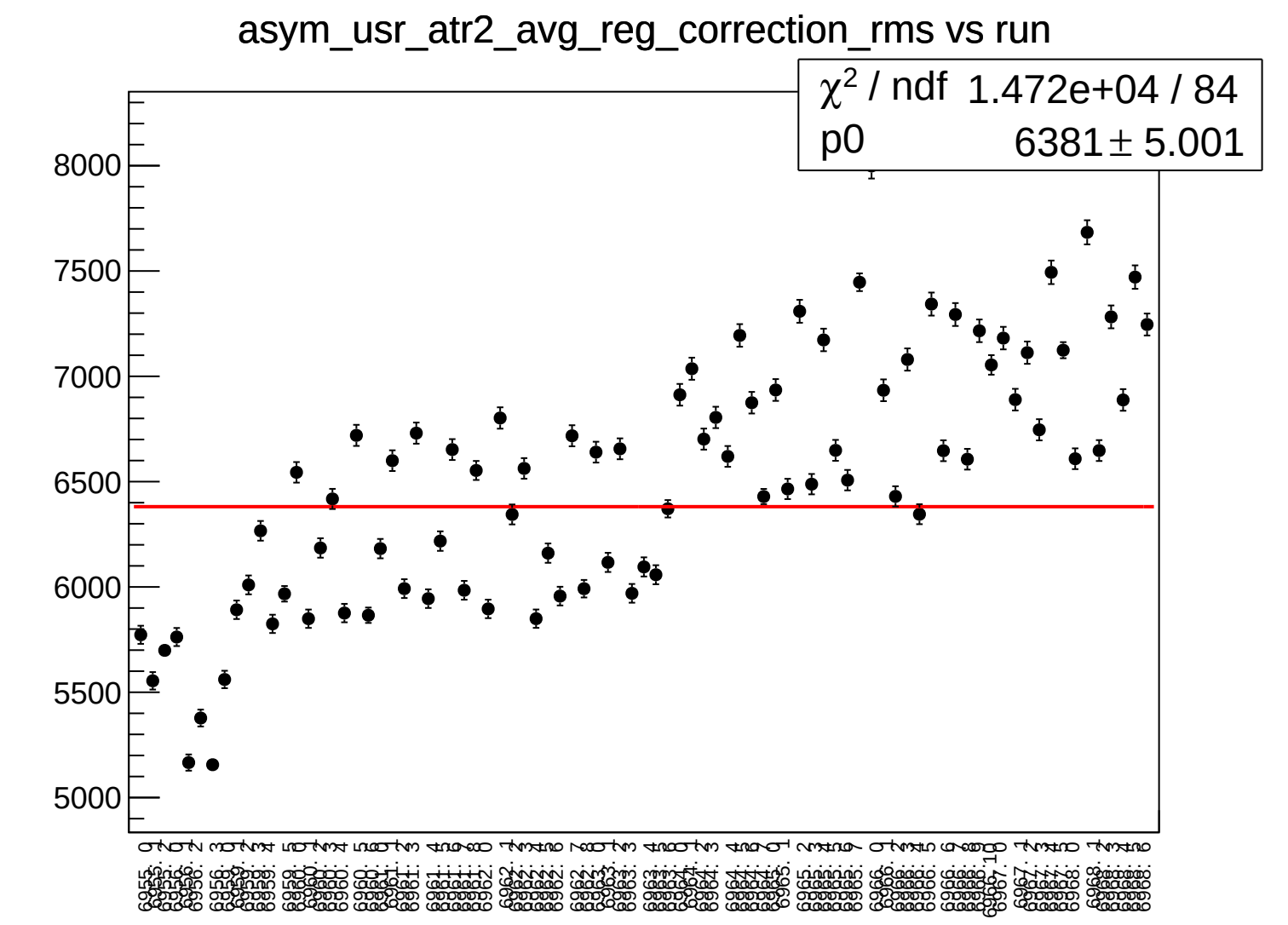

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 82.56 / 84
p0 −3522 ± 1677
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −980.6
Std Dev 0
2
1
0
−1
−2

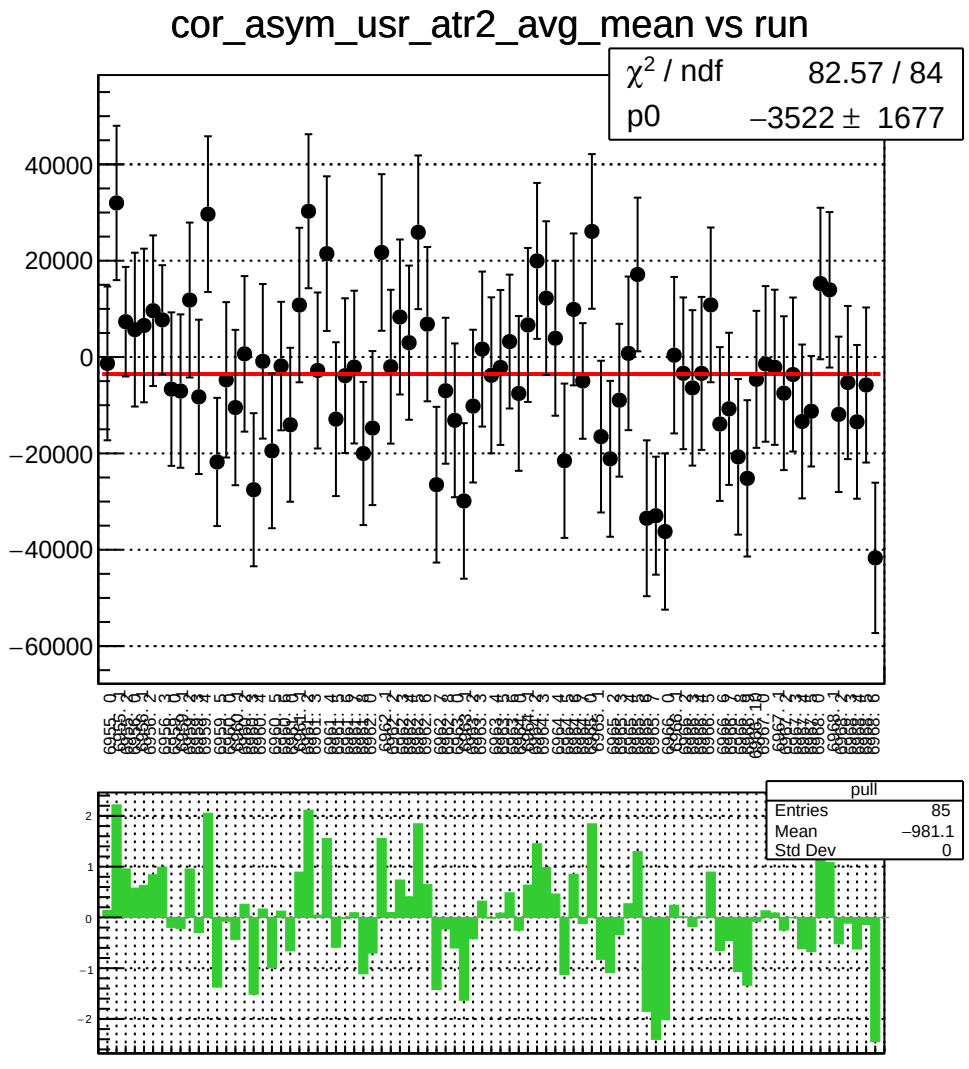

pull1D
Entries 85
Mean 0.006479
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

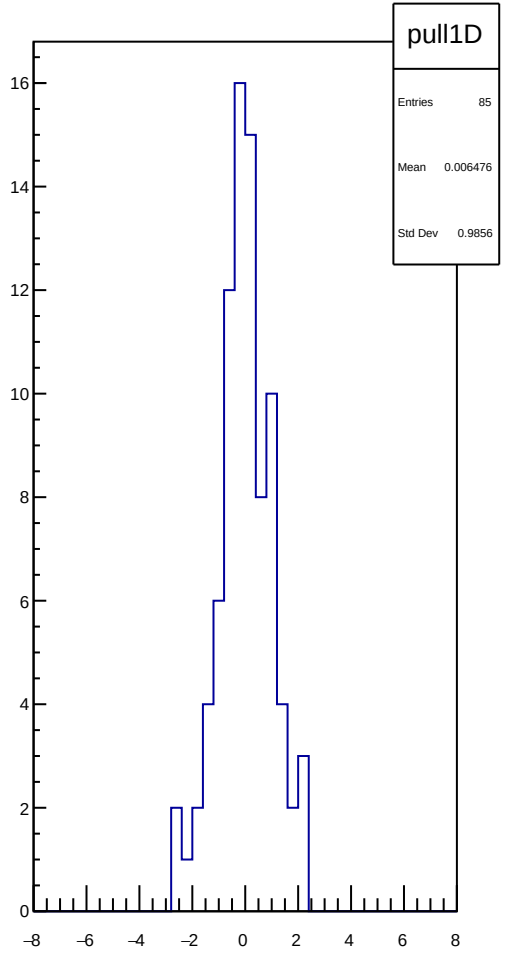

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 102.1 / 84
p0 1520 ± 1.186
1560
1550
1540
1530
1520
1510
1500
1490
1480
1470

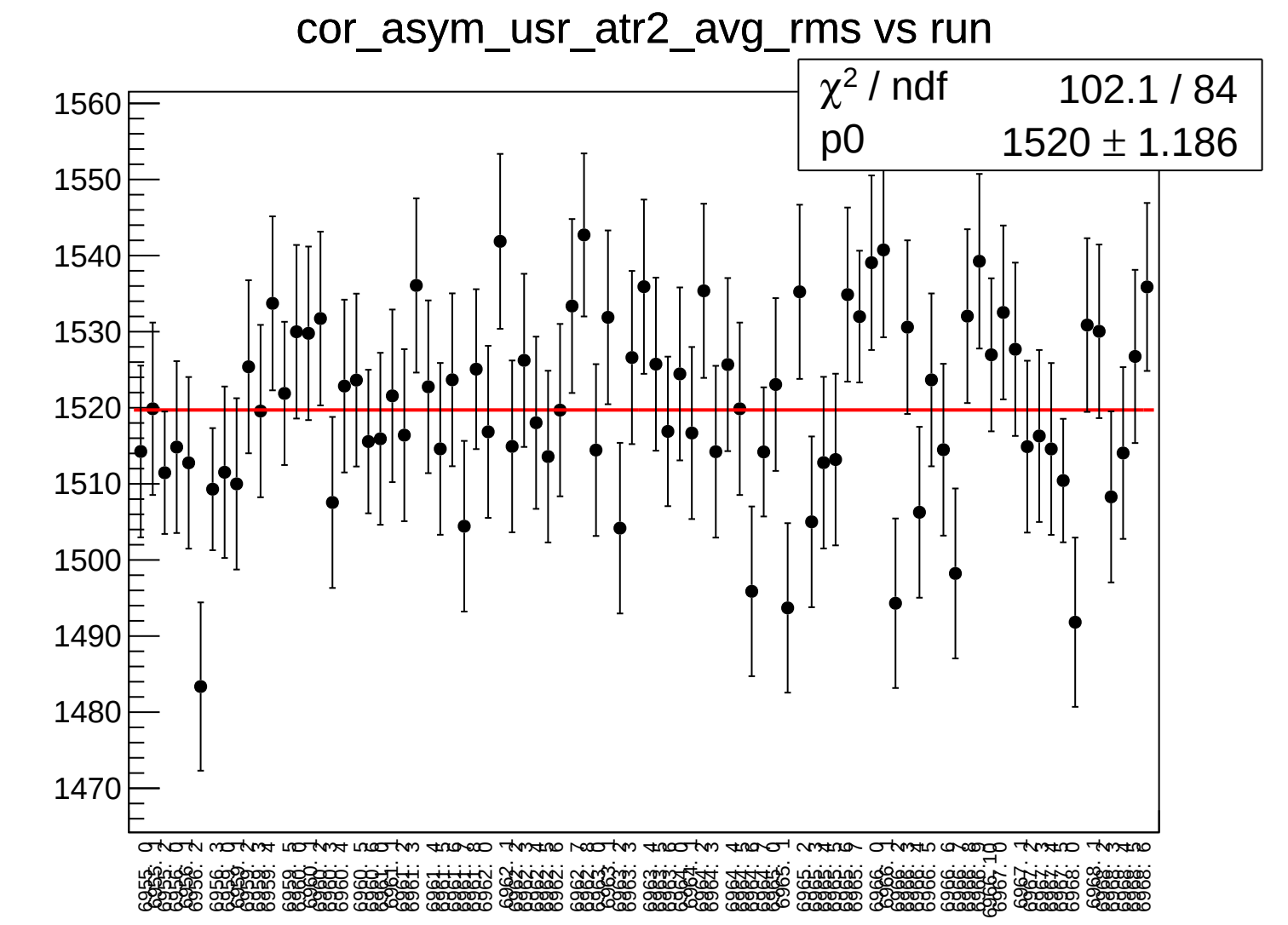

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 101.3 / 84
p0 −2721 ± 7073
200
100
0
−100
−200
−300
pull
Entries 85
Mean 22.88
Std Dev 58.46
2
1
0
−1
−2

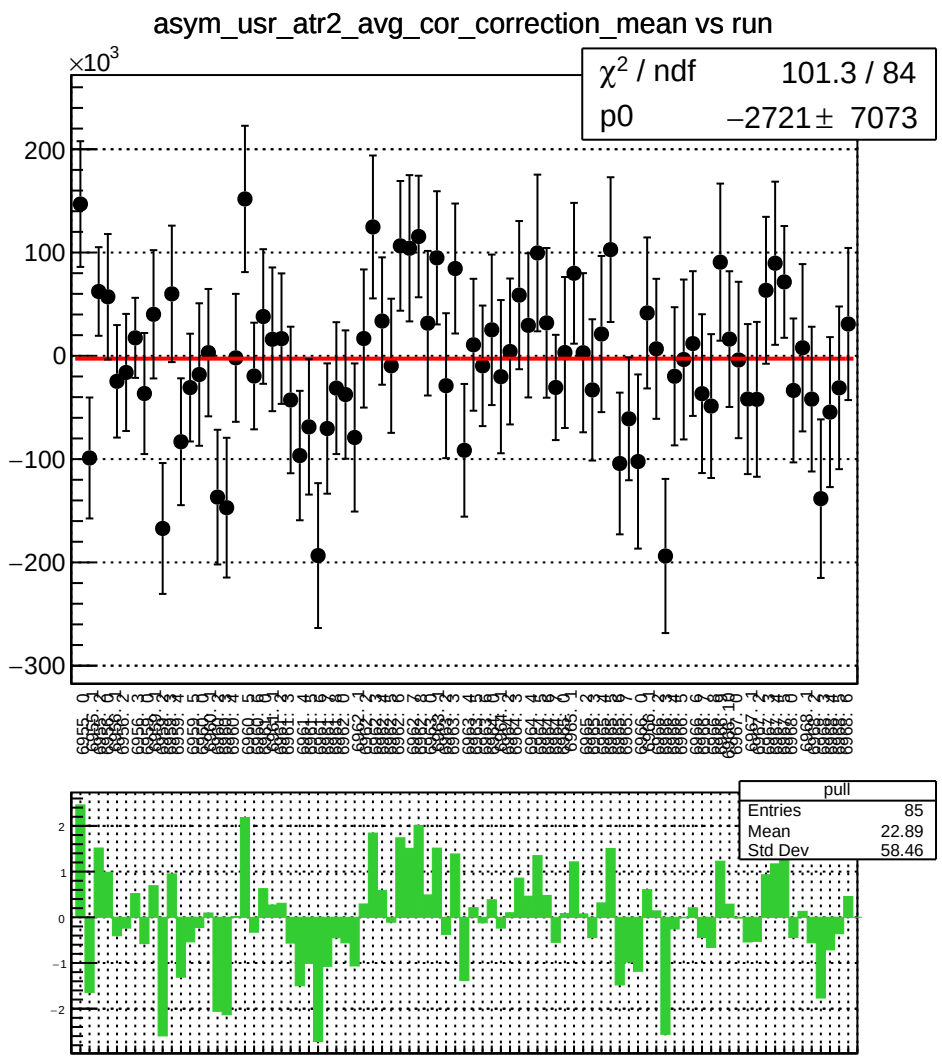

pull1D
Entries 85
Mean −0.01327
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

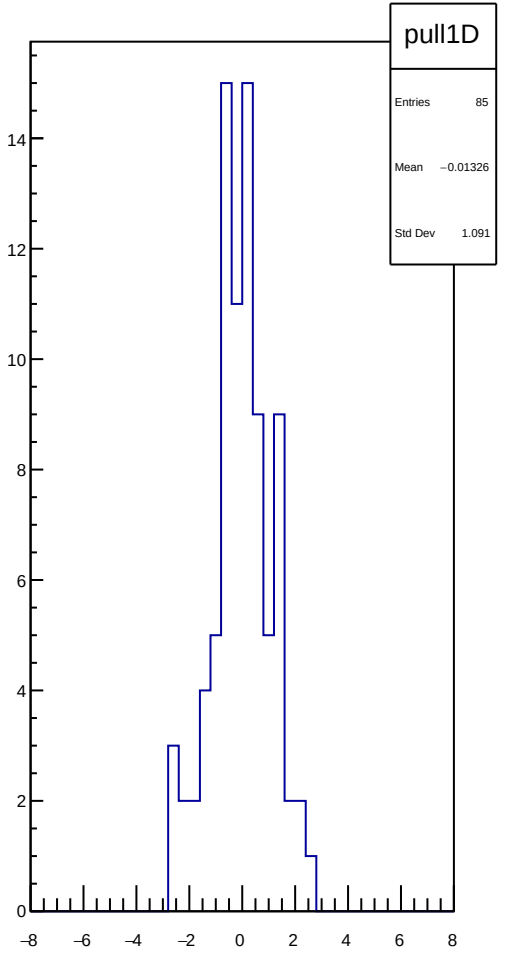

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.472e+04 / 84
p0 6381 ± 5.001
8000
7500
7000
6500
6000
5500
5000

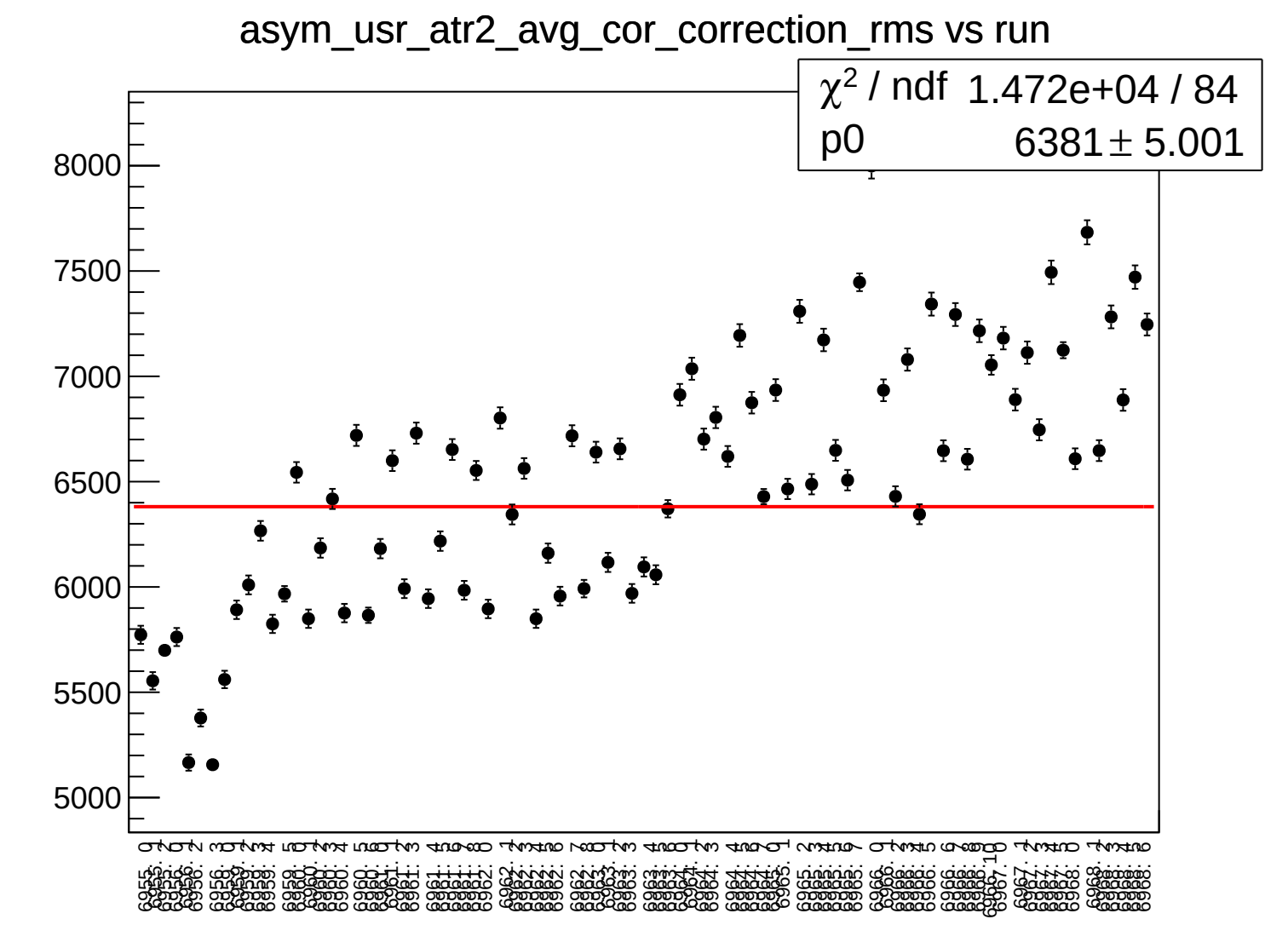

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 82.57 / 84
p0 −3522 ± 1677
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −981.1
Std Dev 0
2
1
0
−1
−2

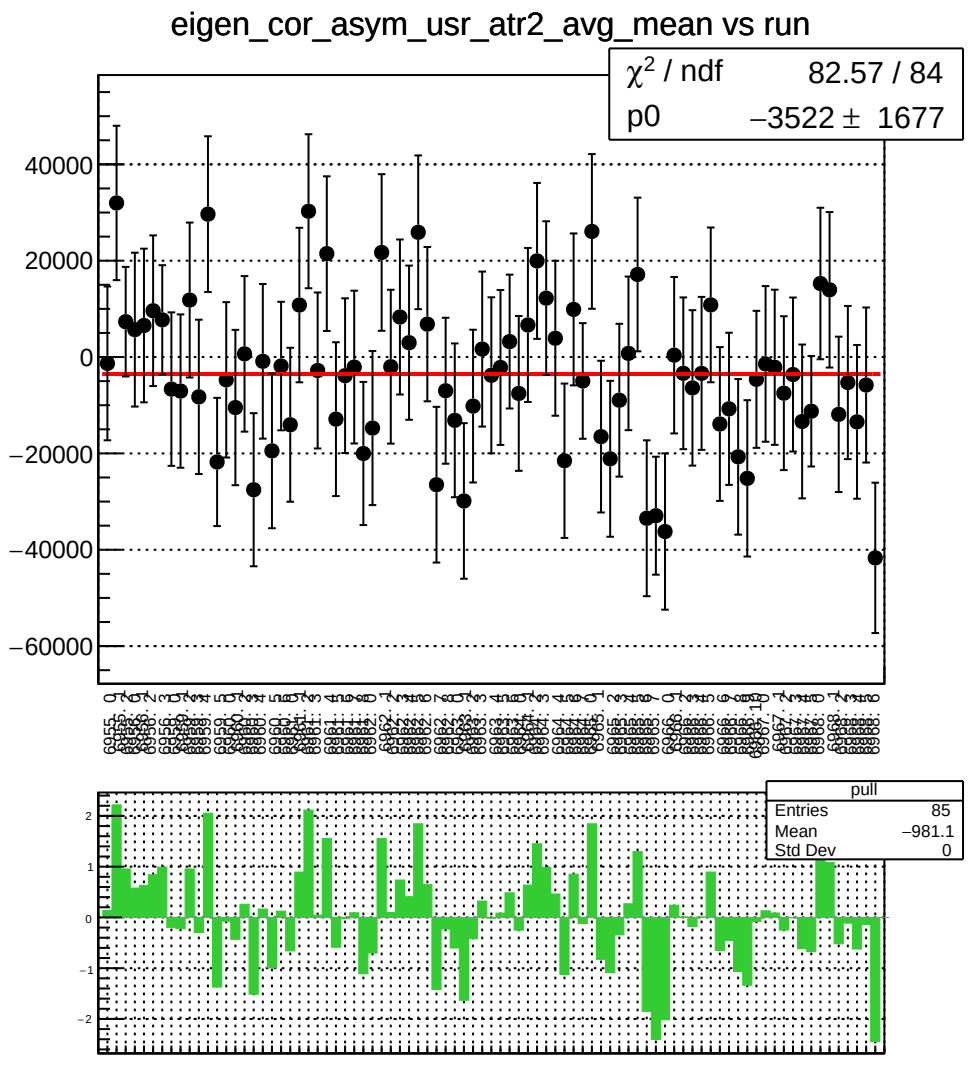

pull1D
Entries 85
Mean 0.006476
Std Dev 0.9856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

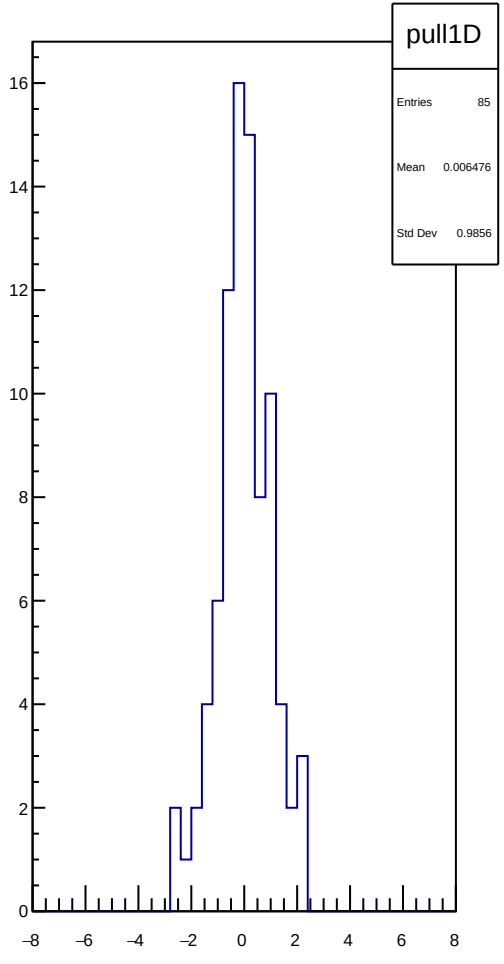

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 102.1 / 84
p0 1520 ± 1.186
1560
1550
1540
1530
1520
1510
1500
1490
1480
1470

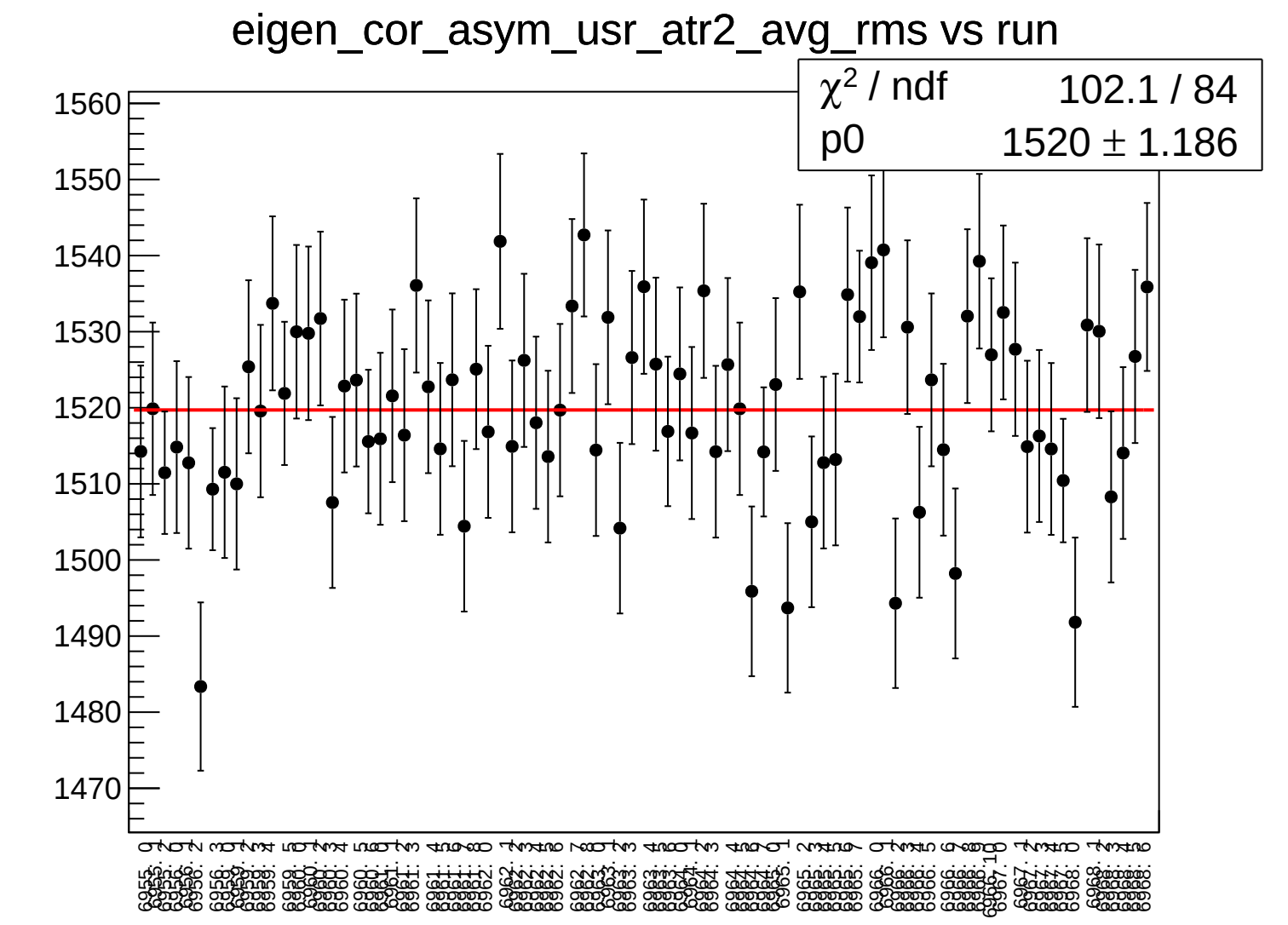

asym_usr_atr2_avg_cor_correction_mean vs run
χ² / ndf 101.3 / 84
p0 −2721 ± 7073
×10³
pull
Entries 85
Mean 22.89
Std Dev 58.46

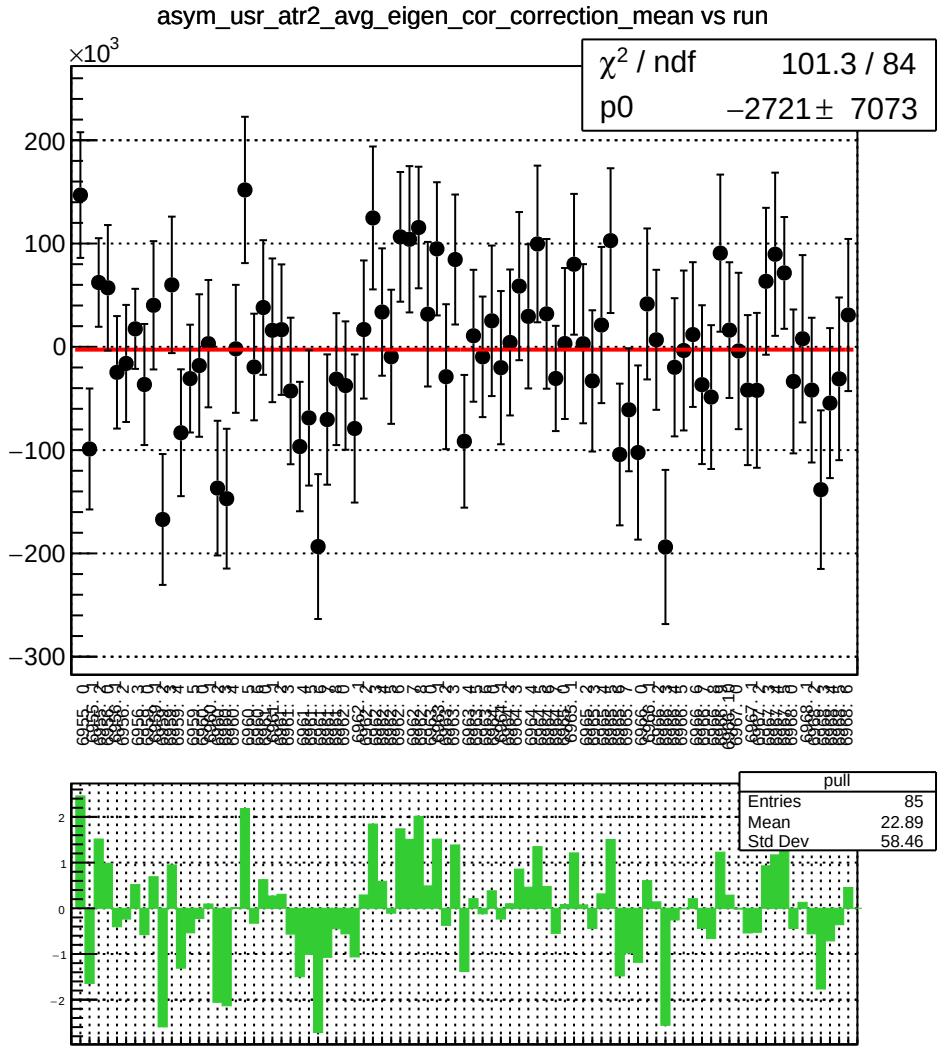

pull1D
Entries 85
Mean −0.01326
Std Dev 1.091

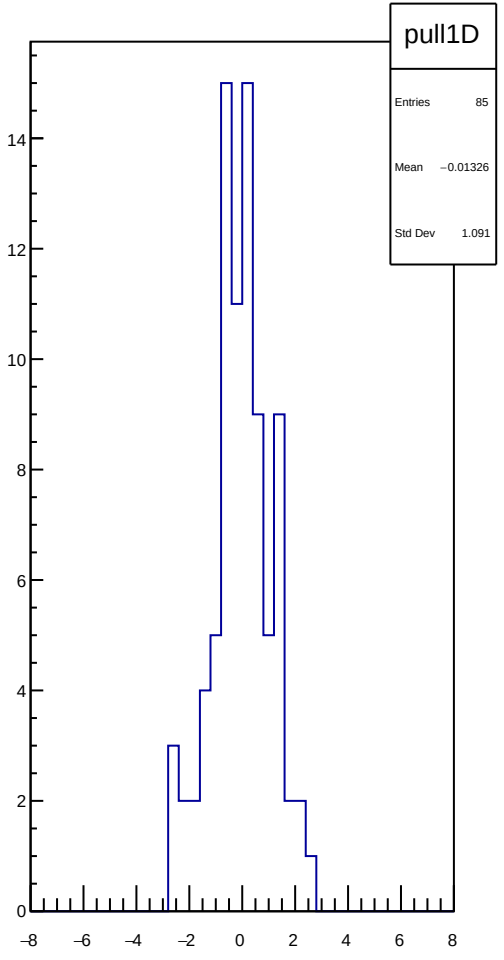

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 1.472e+04 / 84
p0 6381 ± 5.001
8000
7500
7000
6500
6000
5500
5000

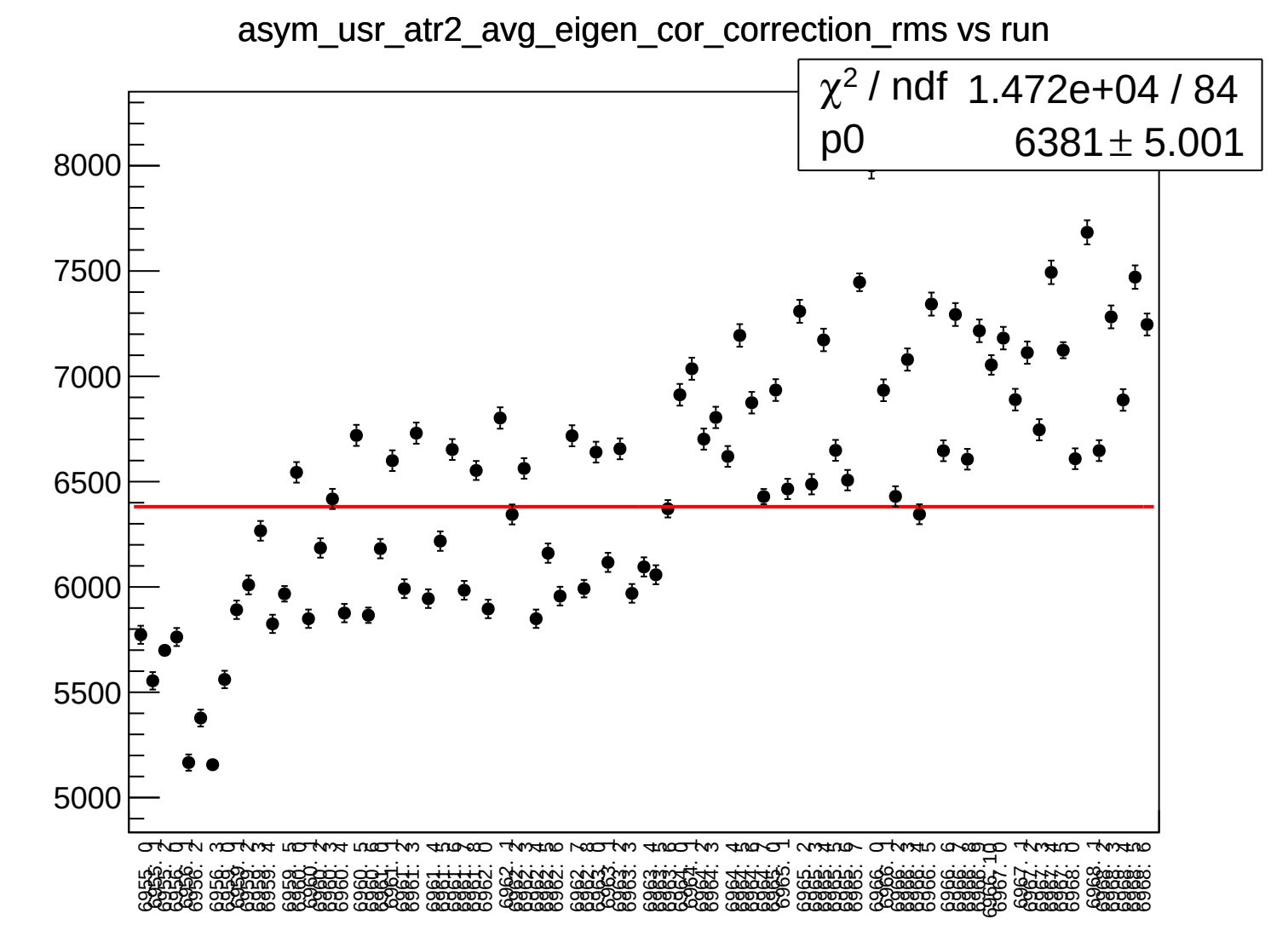

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 82.57 / 84
p0 −3522 ± 1677
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −981.1
Std Dev 0
2
1
0
−1
−2

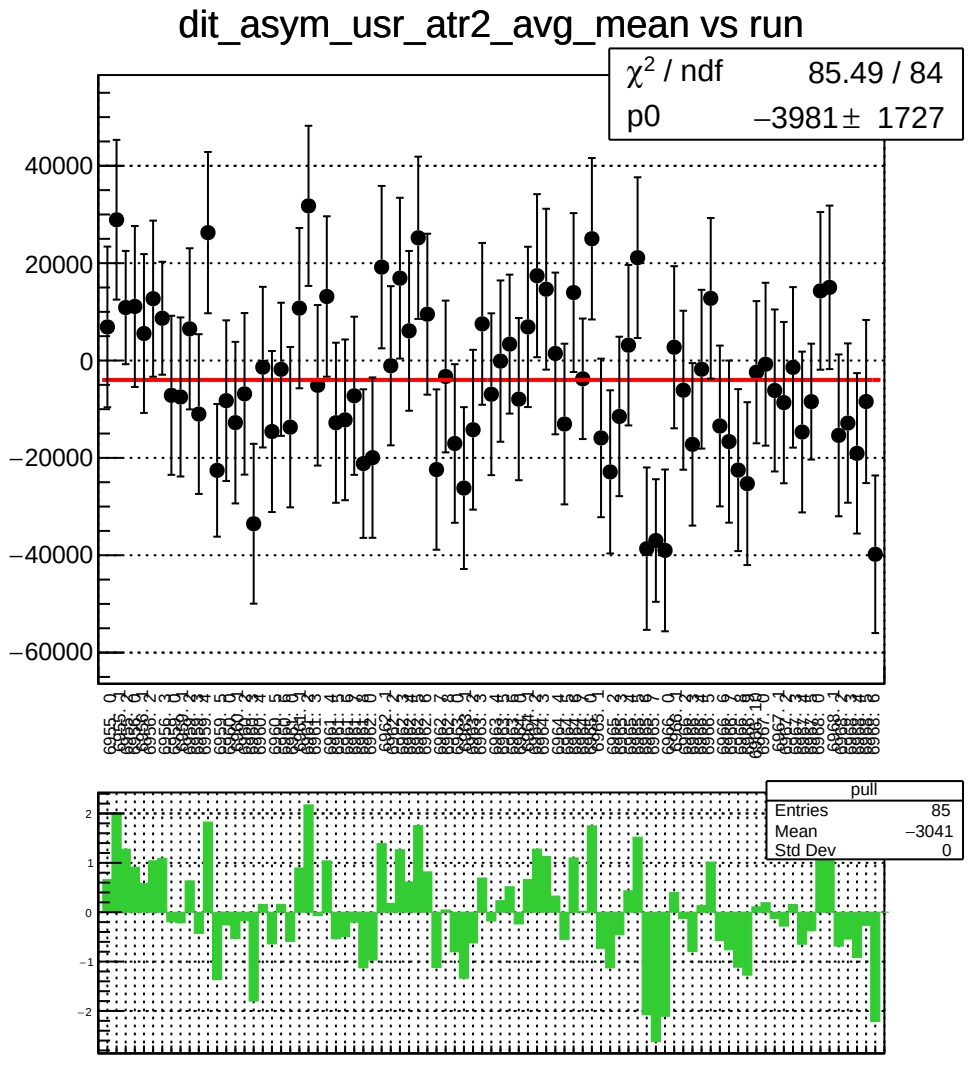

pull1D
Entries 85
Mean 0.006476
Std Dev 0.9856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

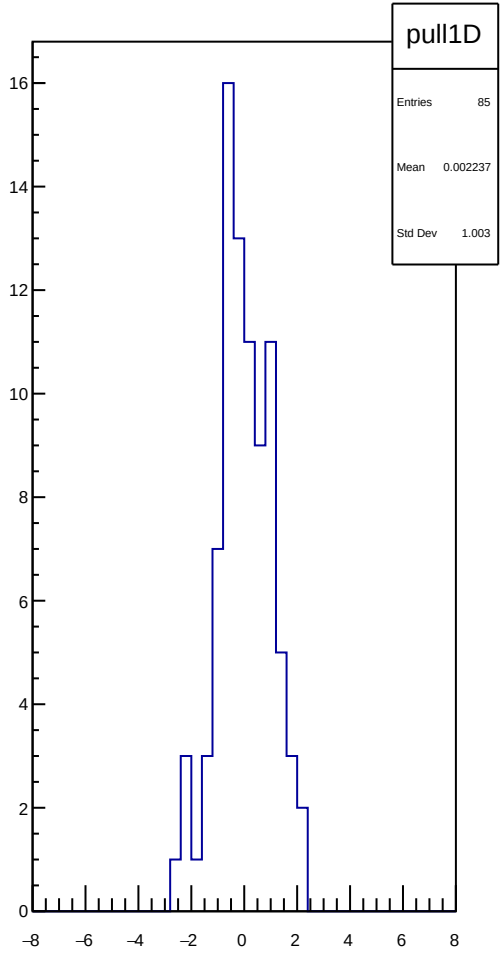

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 102.1 / 84
p0 1520 ± 1.186
1560
1550
1540
1530
1520
1510
1500
1490
1480
1470

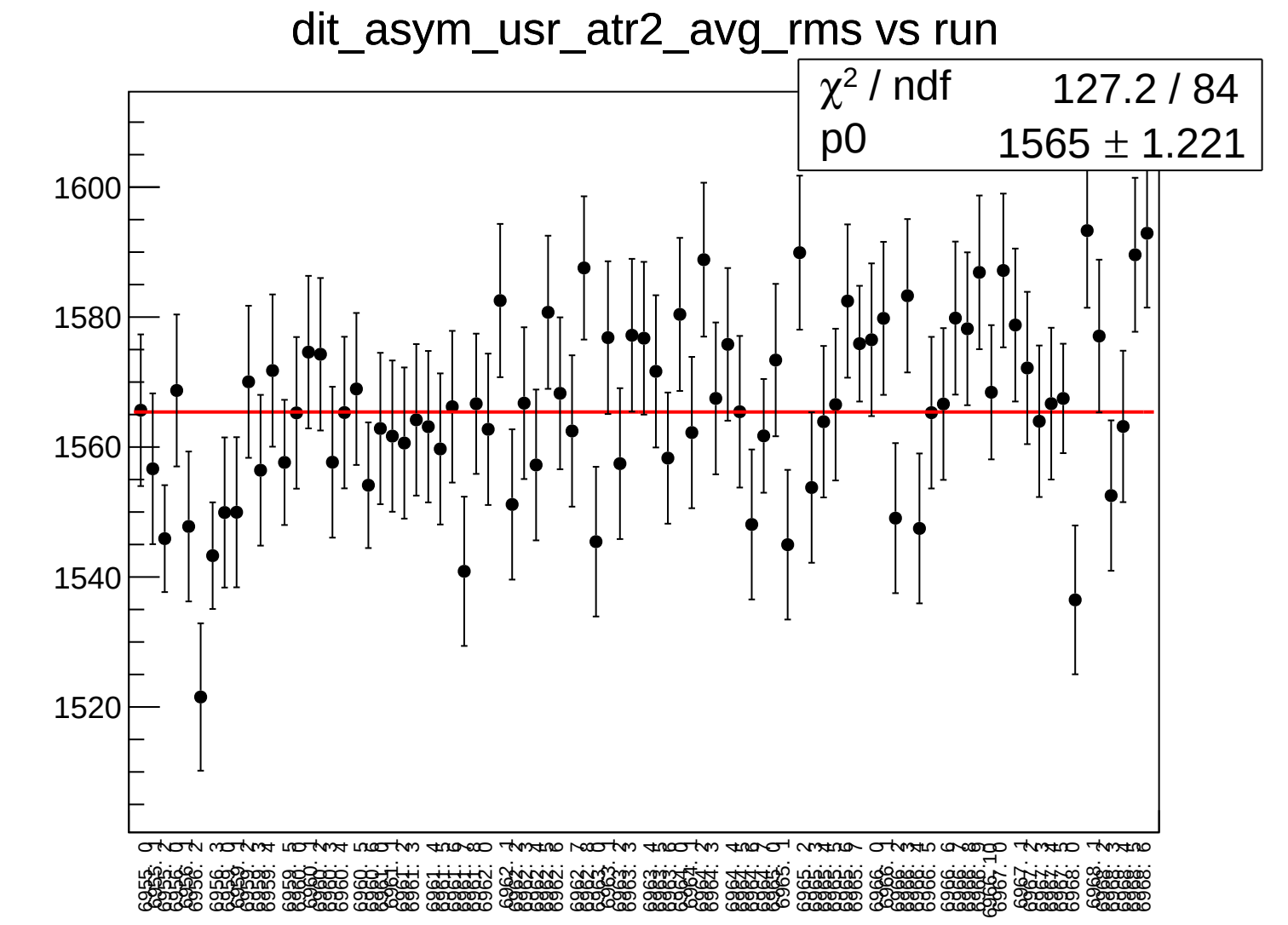

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 101.3 / 84
p0 −2721 ± 7073
200
100
0
−100
−200
−300
pull
Entries 85
Mean 22.89
Std Dev 58.46
2
1
0
−1
−2

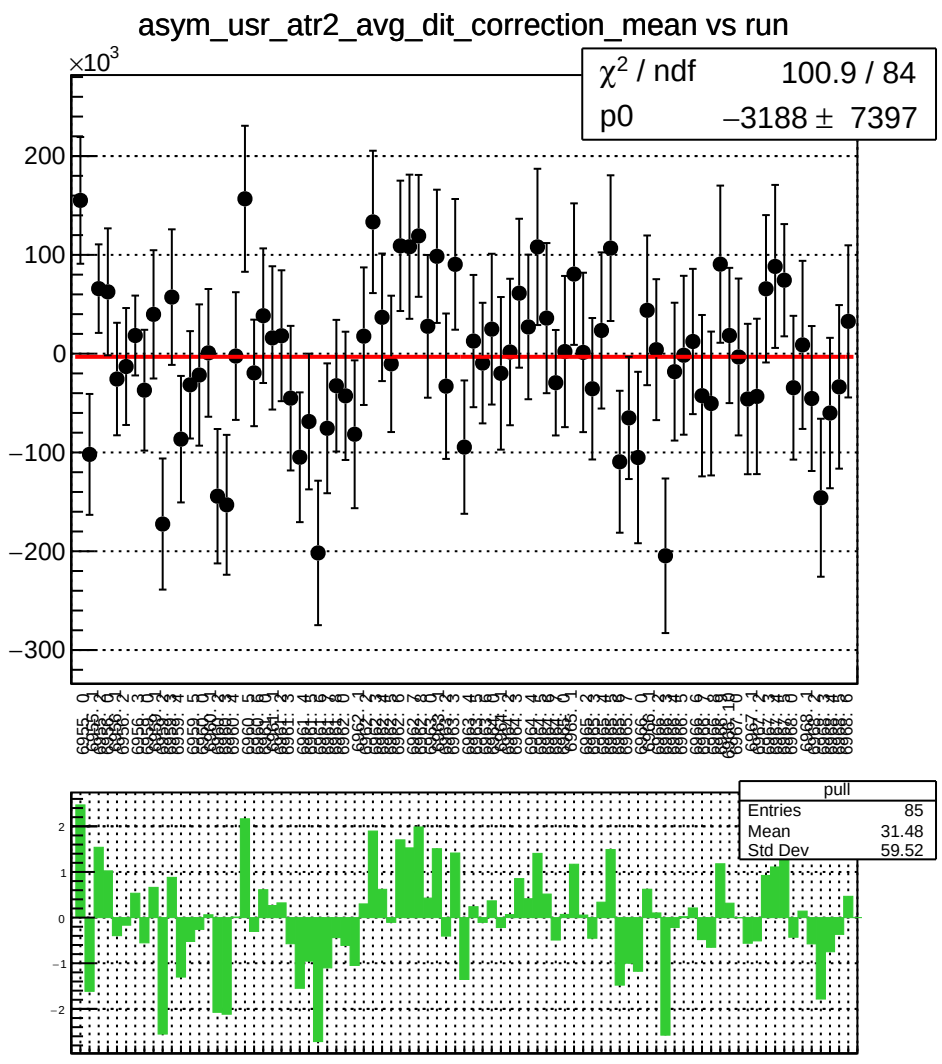

pull1D
Entries 85
Mean −0.01326
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

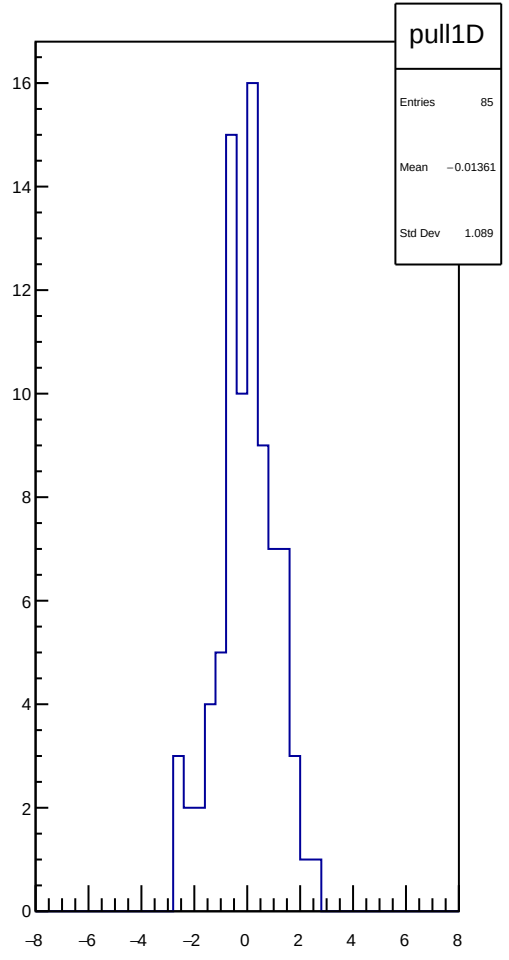

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.472e+04 / 84
p0 6381 ± 5.001
8000
7500
7000
6500
6000
5500
5000

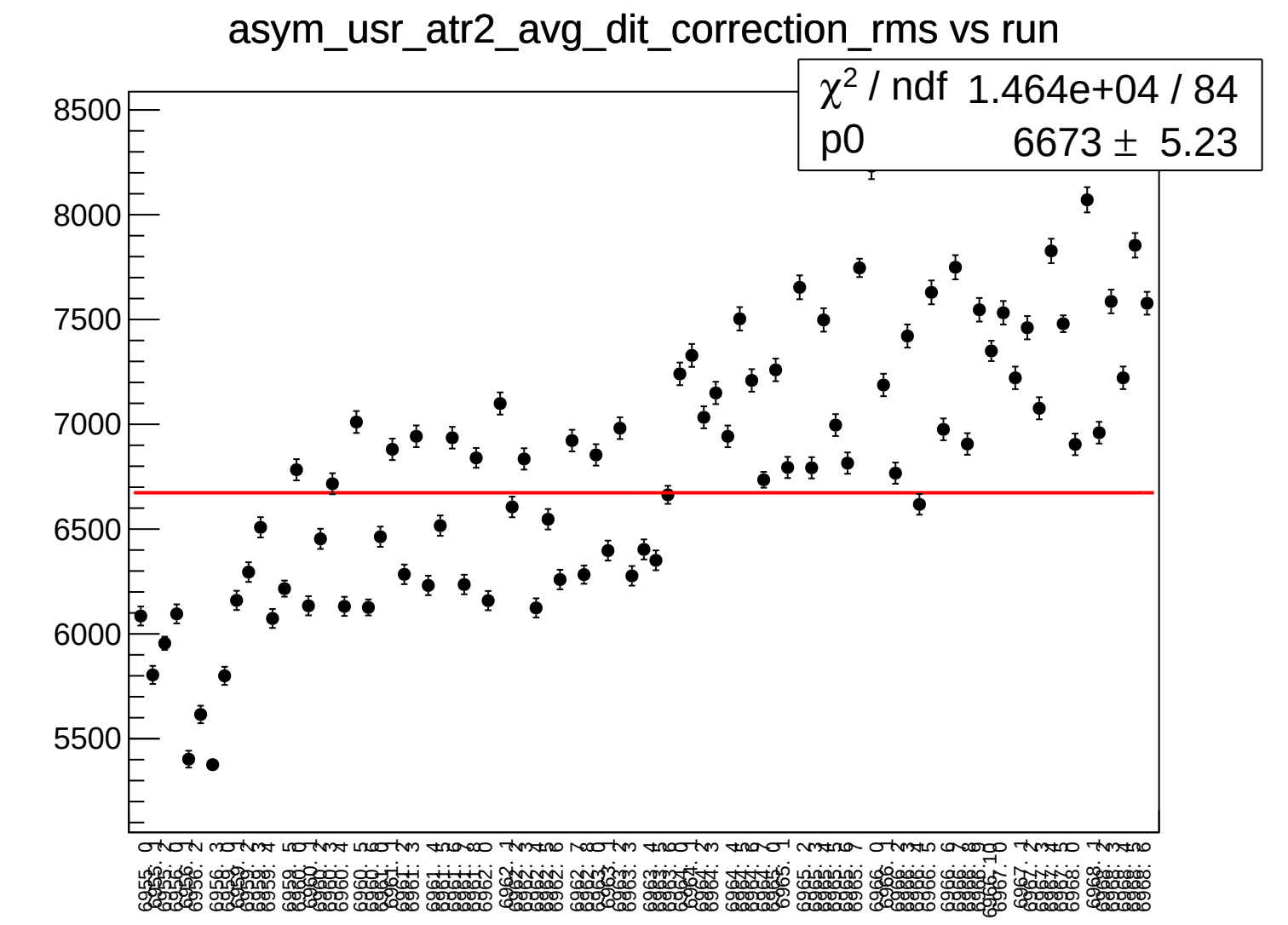

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 85.49 / 84
p0 −3981 ± 1727
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −3041
Std Dev 0
2
1
0
−1
−2

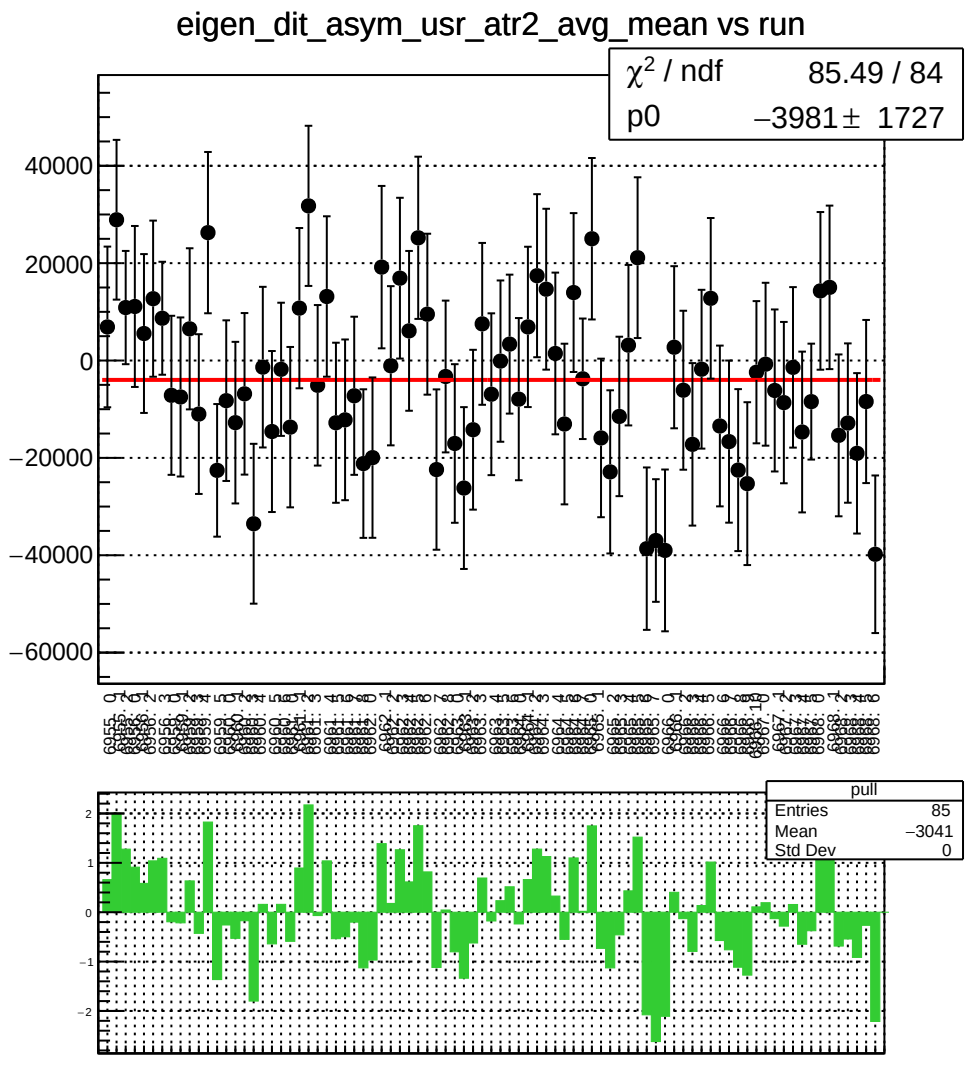

pull1D
Entries 85
Mean 0.002237
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

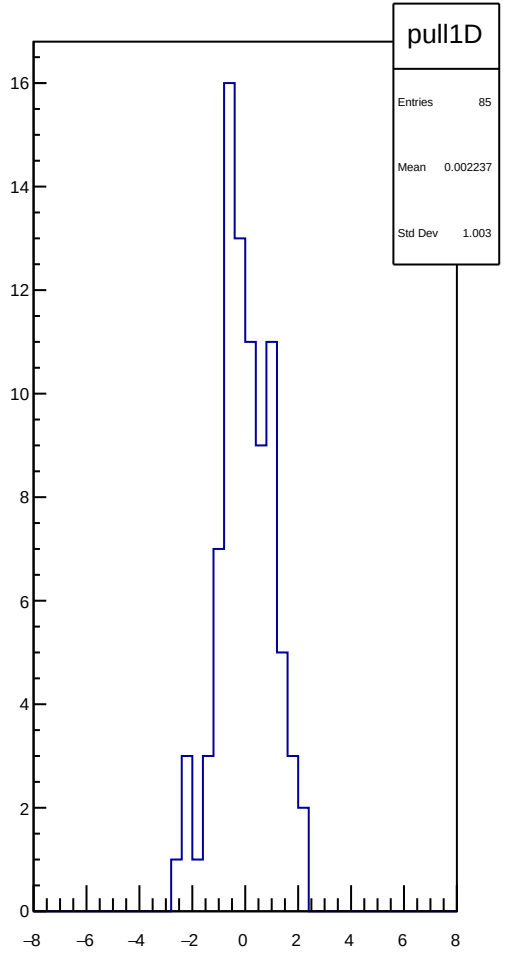

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 127.2 / 84
p0 1565 ± 1.221
1600
1580
1560
1540
1520

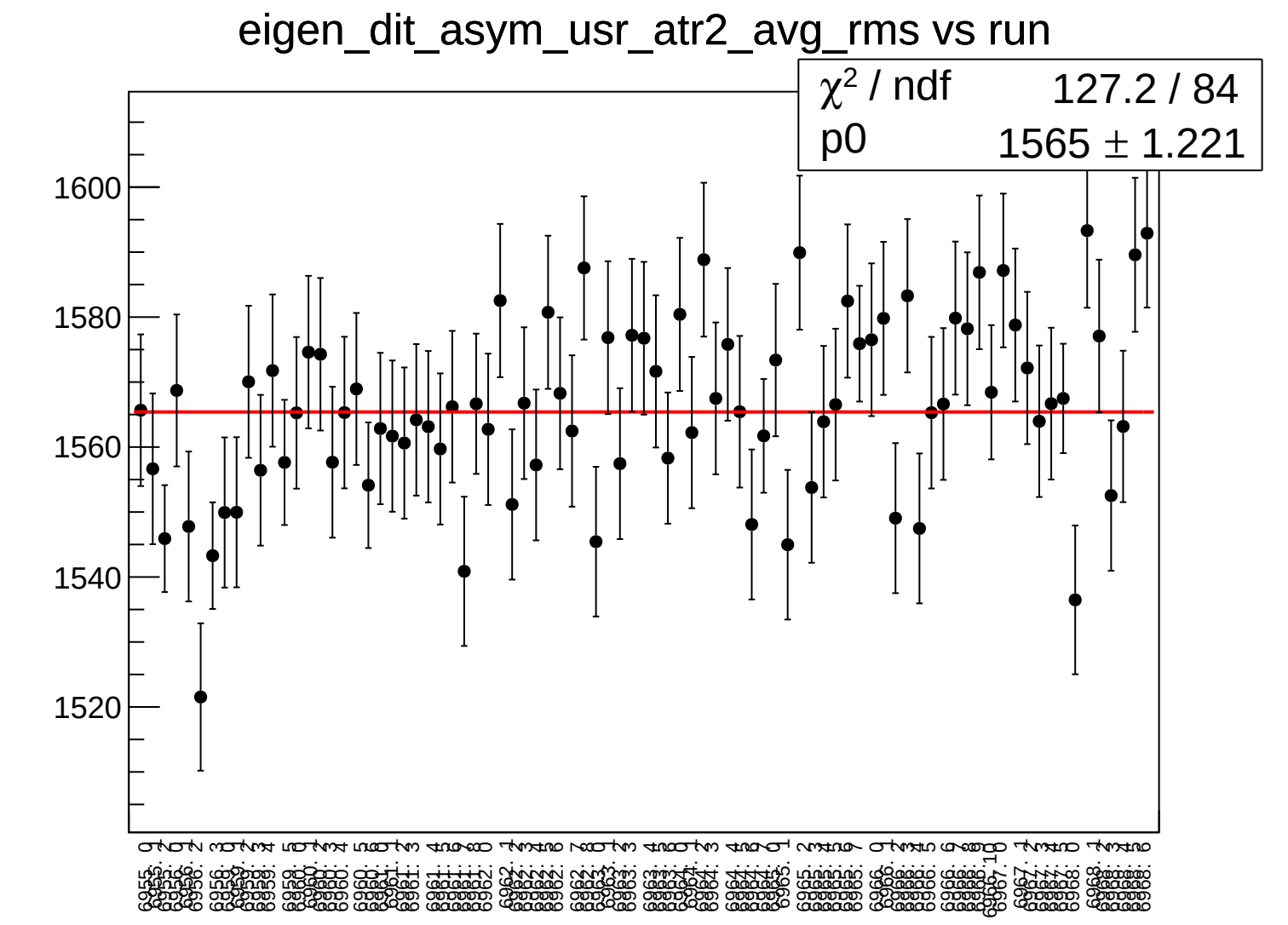

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.9 / 84
p0 −3188 ± 7397
200
100
0
−100
−200
−300
pull
Entries 85
Mean 31.48
Std Dev 59.52
2
1
0
−1
−2

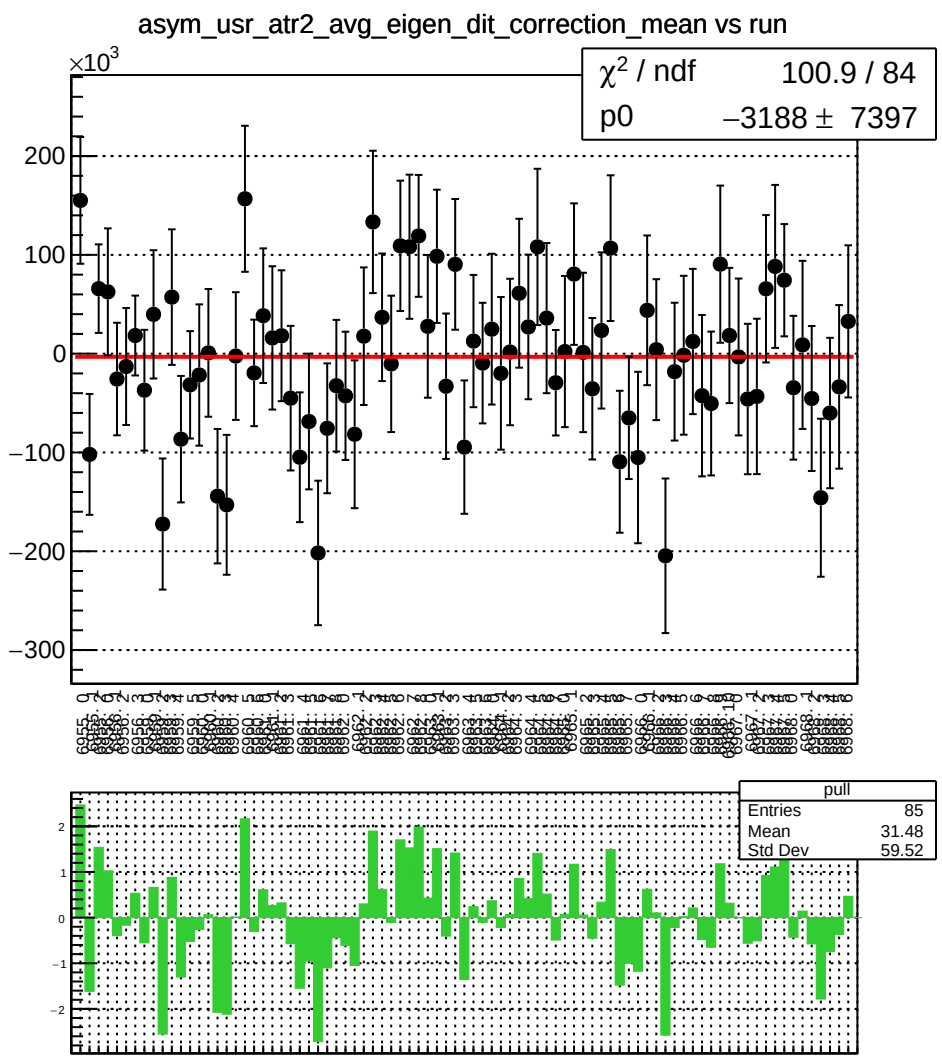

pull1D
Entries 85
Mean −0.01361
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

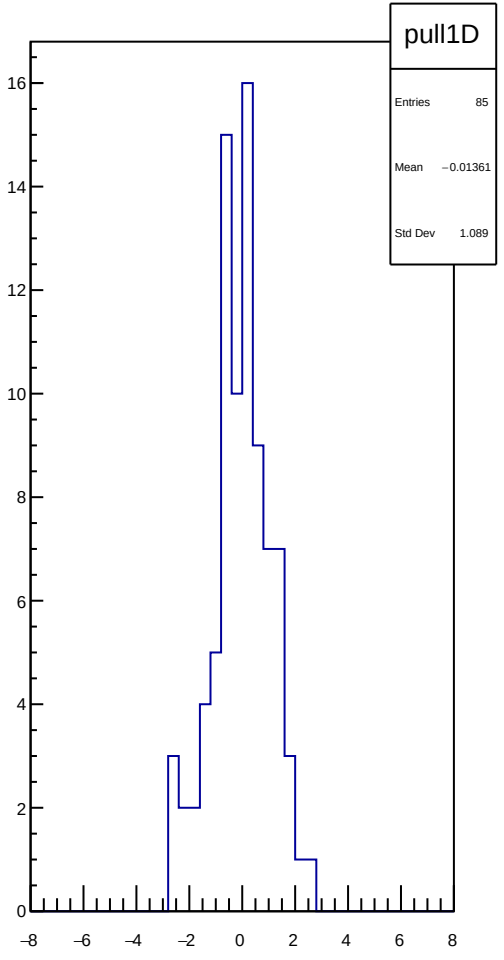

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 1.464e+04 / 84
p0 6673 ± 5.23
8500
8000
7500
7000
6500
6000
5500

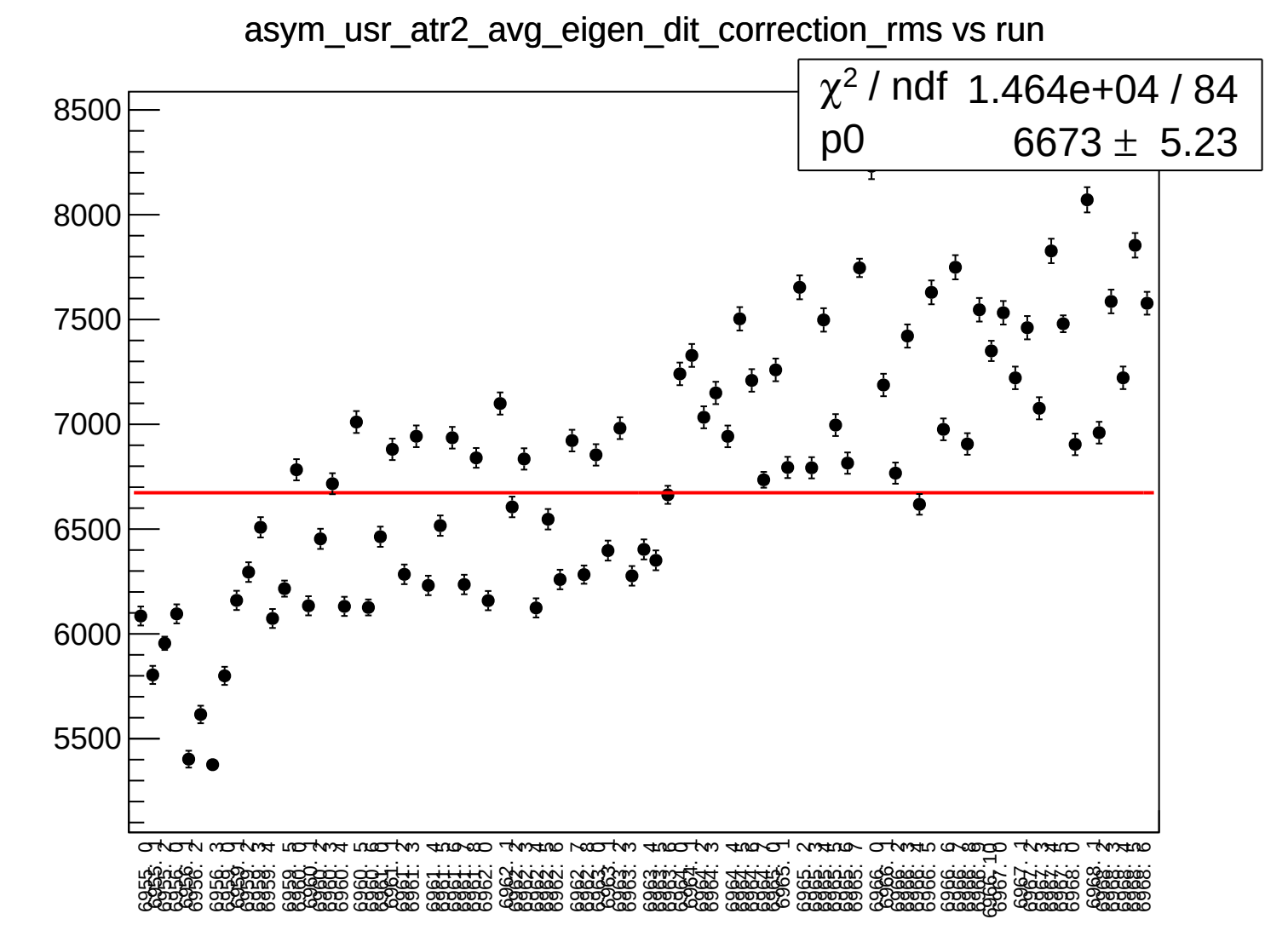

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 85.49 / 84
p0 −3981 ± 1727
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −3041
Std Dev 0
2
1
0
−1
−2

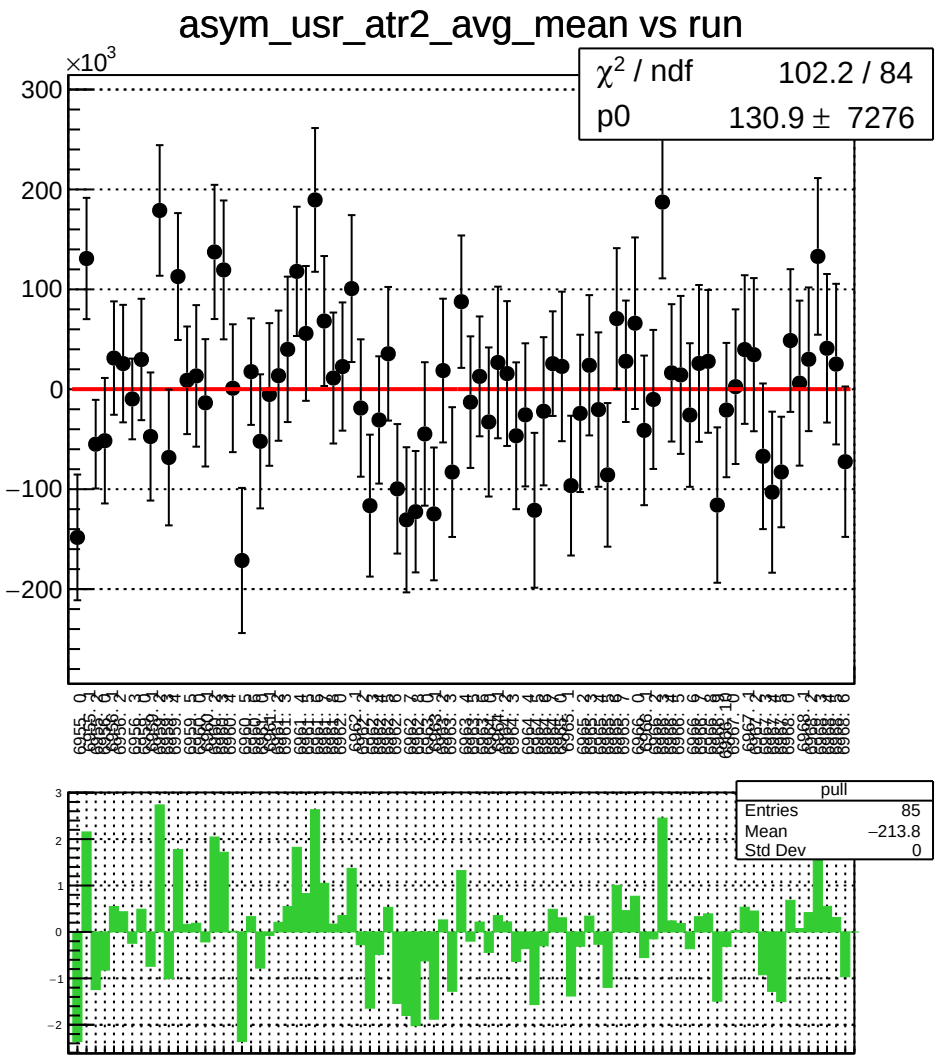

pull1D
Entries 85
Mean 0.002237
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

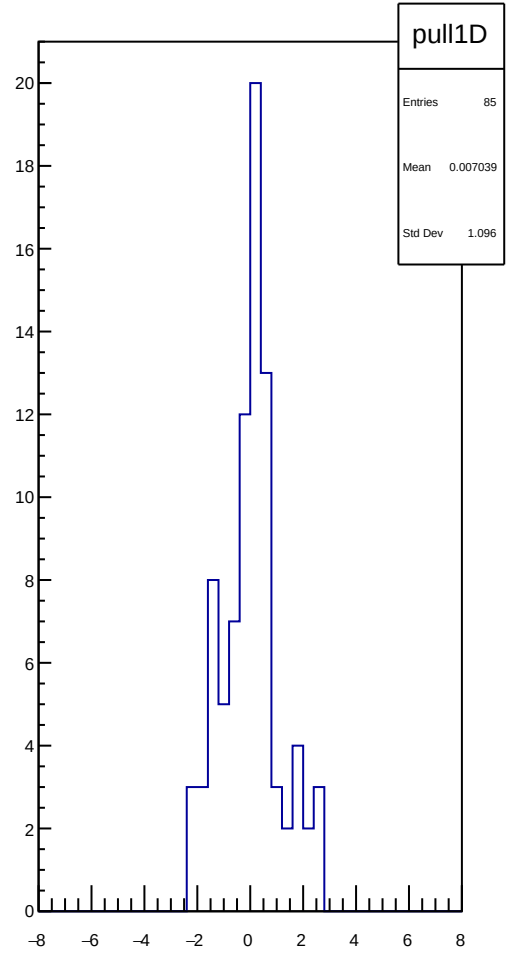

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 127.2 / 84
p0 1565 ± 1.221
1600
1580
1560
1540
1520

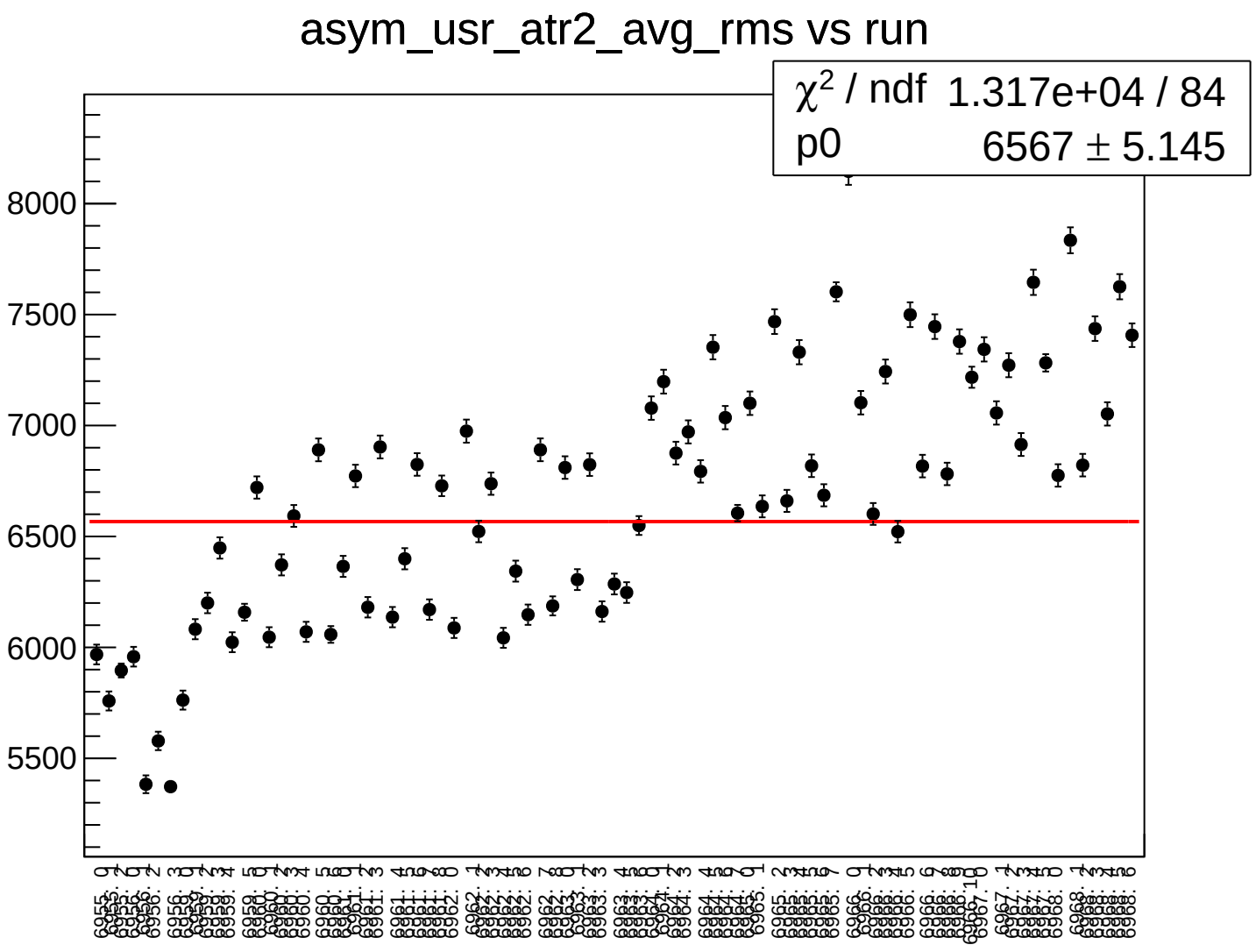

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.9 / 84
p0 −3188 ± 7397
200
100
0
−100
−200
−300
pull
Entries 85
Mean 31.48
Std Dev 59.52
2
1
0
−1
−2

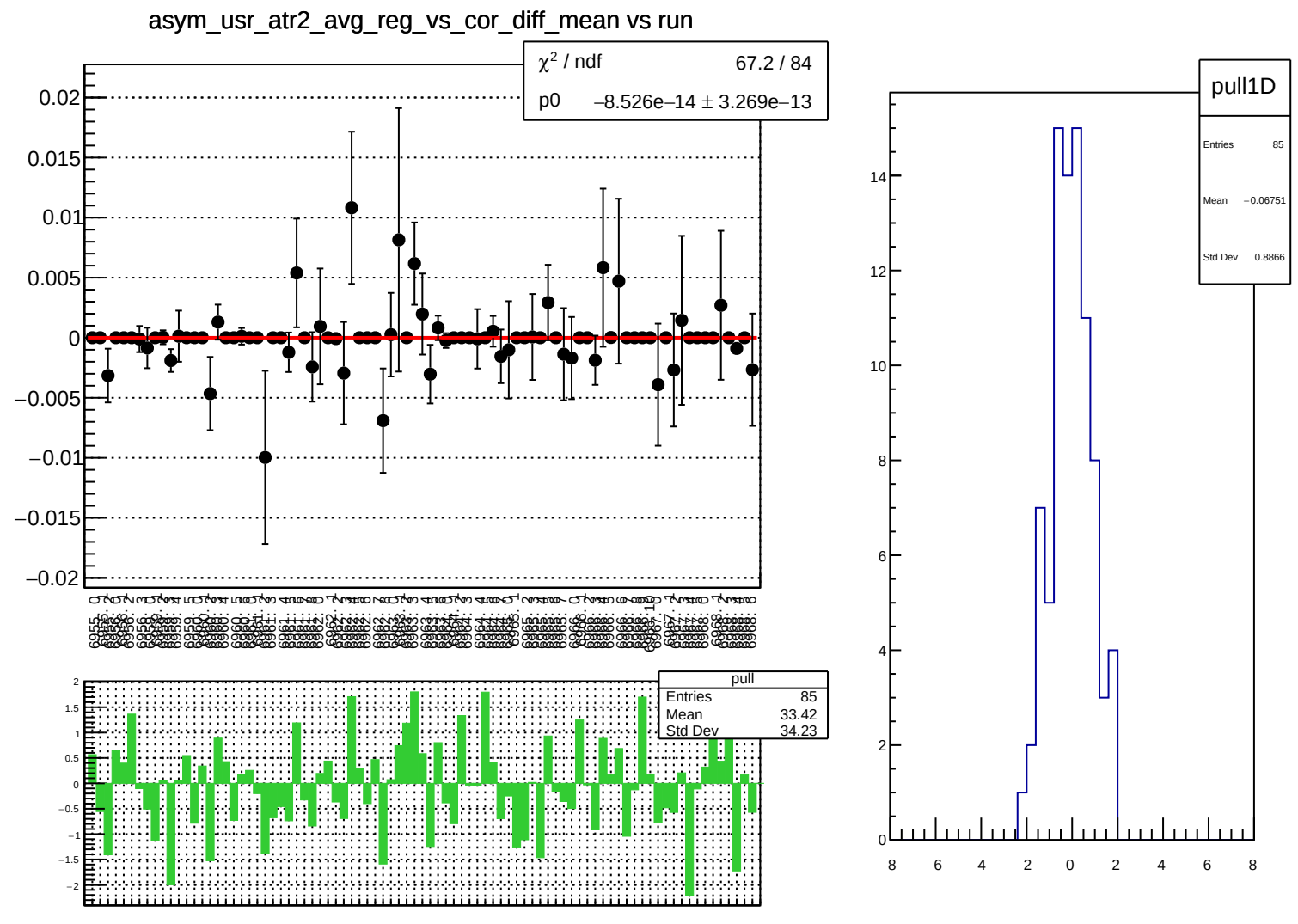

pull1D
Entries 85
Mean −0.01361
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

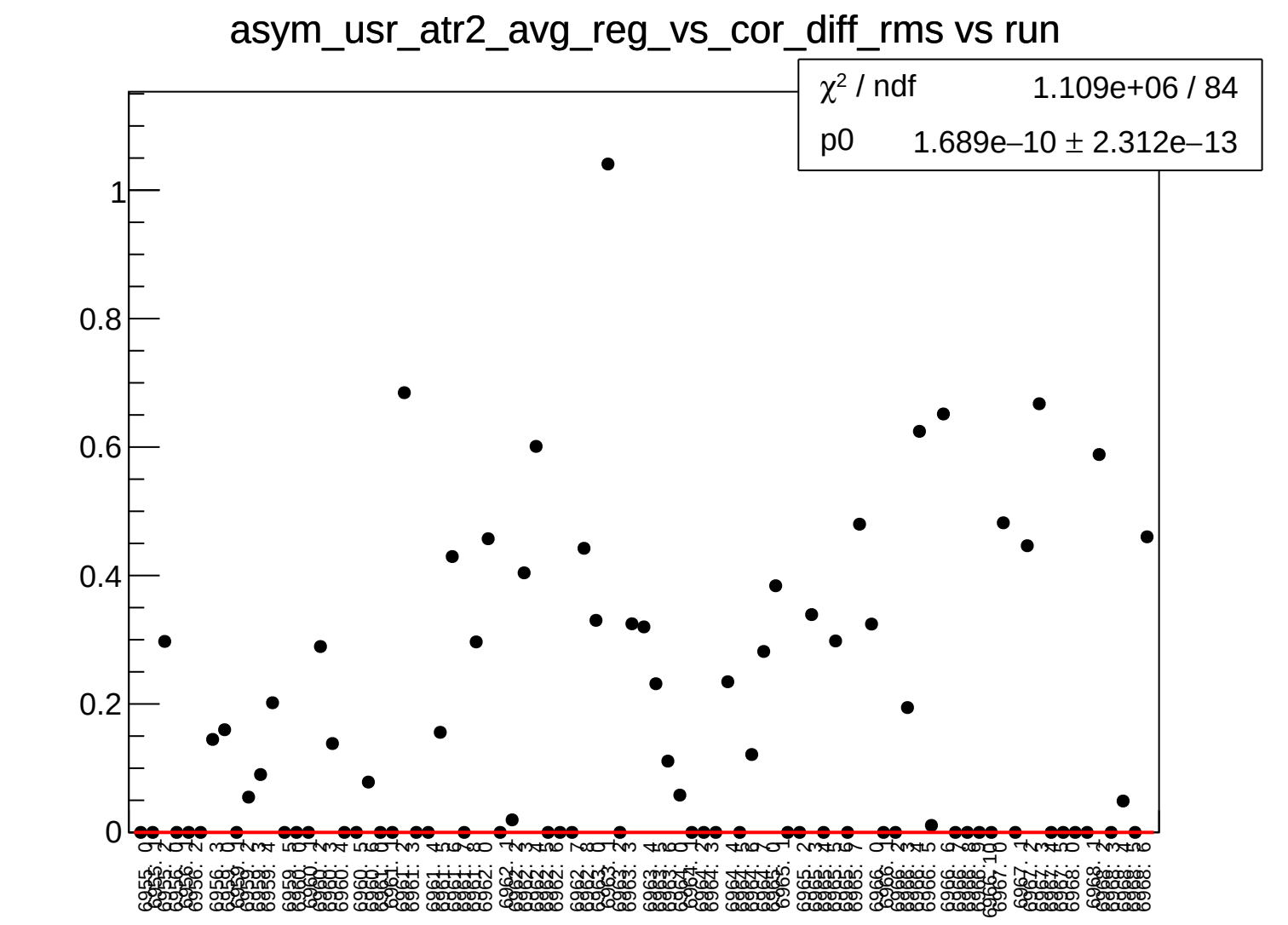

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.464e+04 / 84
p0 6673 ± 5.23
8500
8000
7500
7000
6500
6000
5500

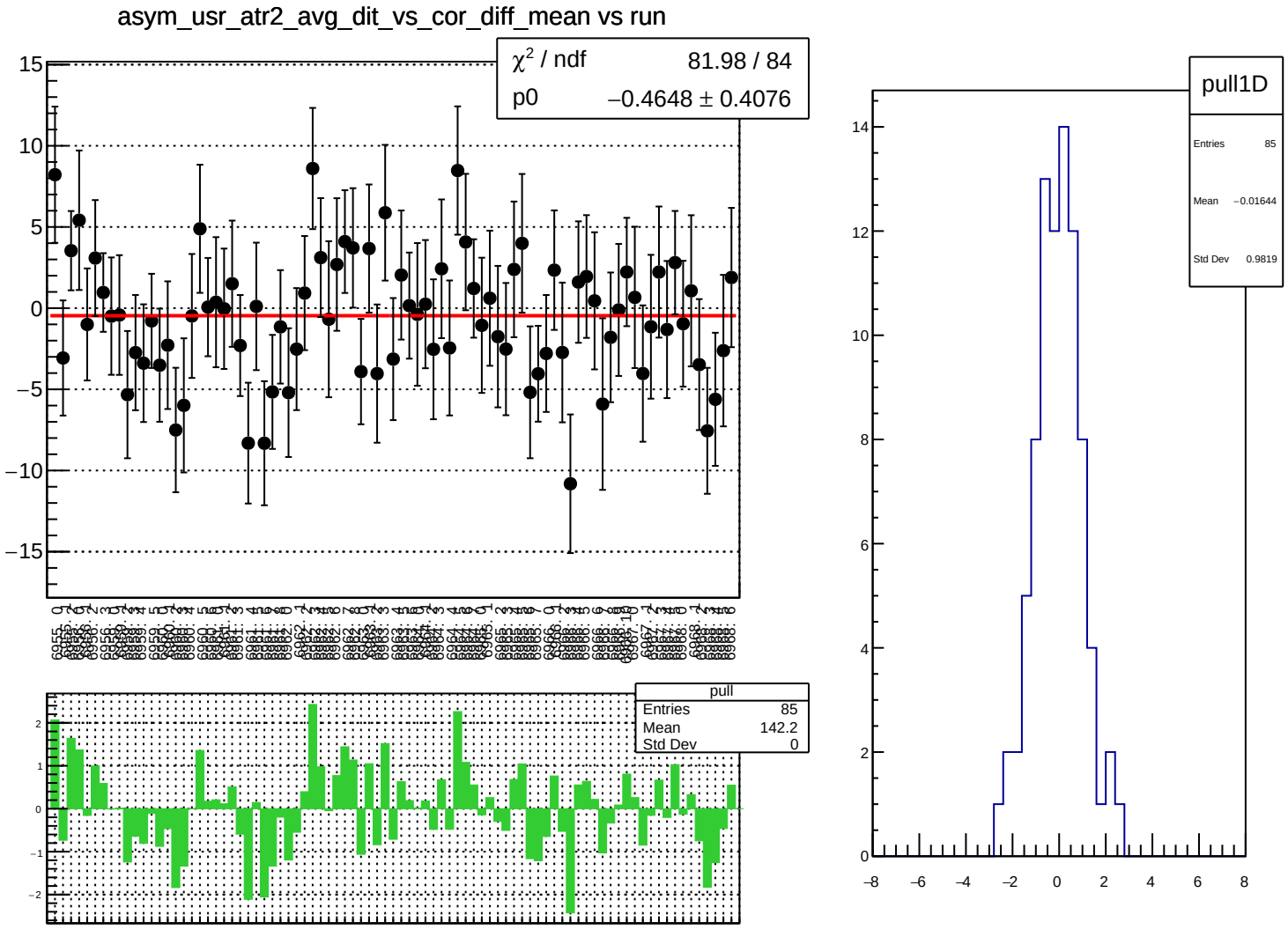

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 102.2 / 84
p0 130.9 ± 7276
pull
Entries 85
Mean −213.8
Std Dev 0

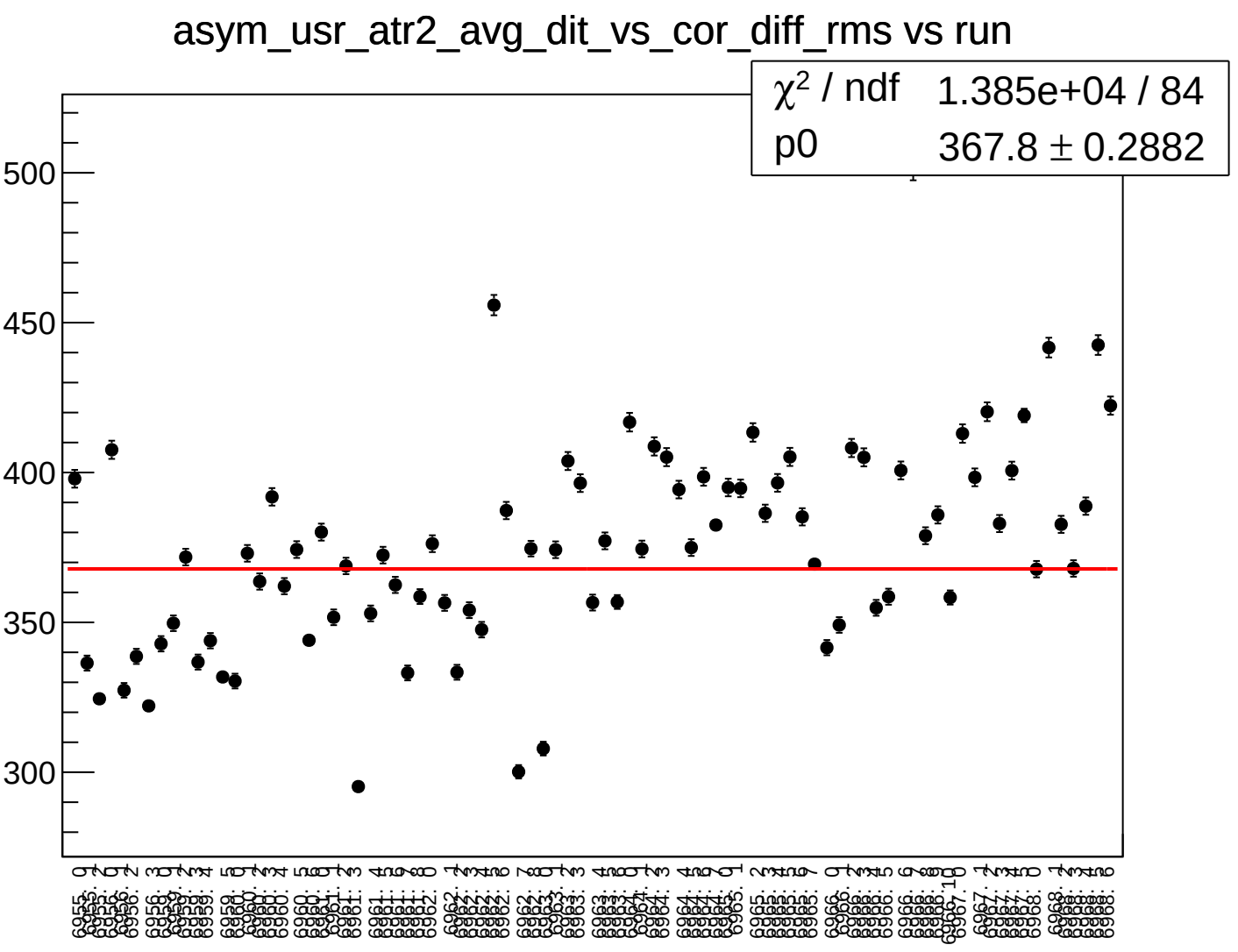

pull1D
Entries 85
Mean 0.007039
Std Dev 1.096

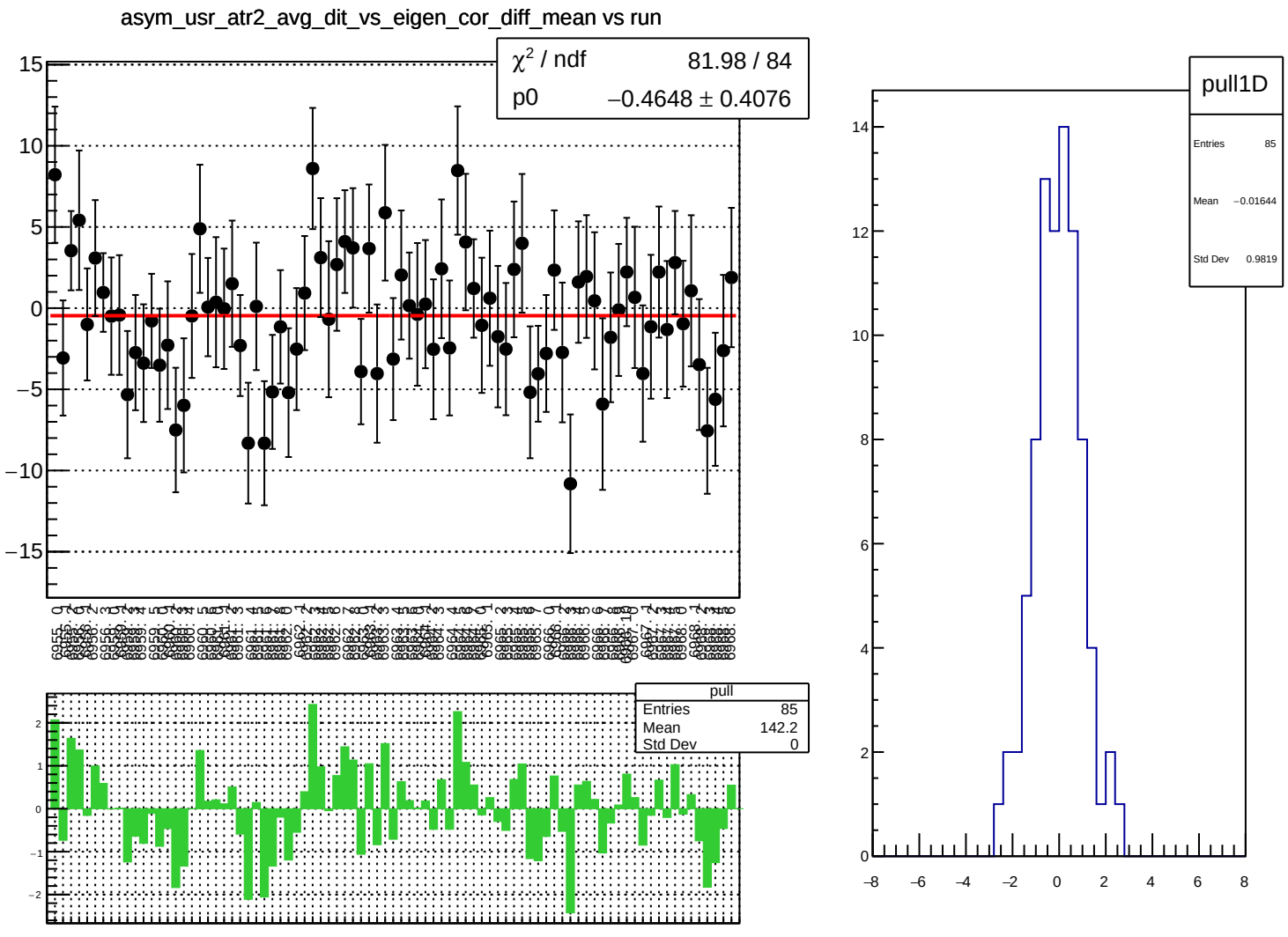

asym_usr_atr2_avg_rms vs run
$\chi^2$ / ndf 1.317e+04 / 84
p0 6567 ± 5.145
8000
7500
7000
6500
6000
5500

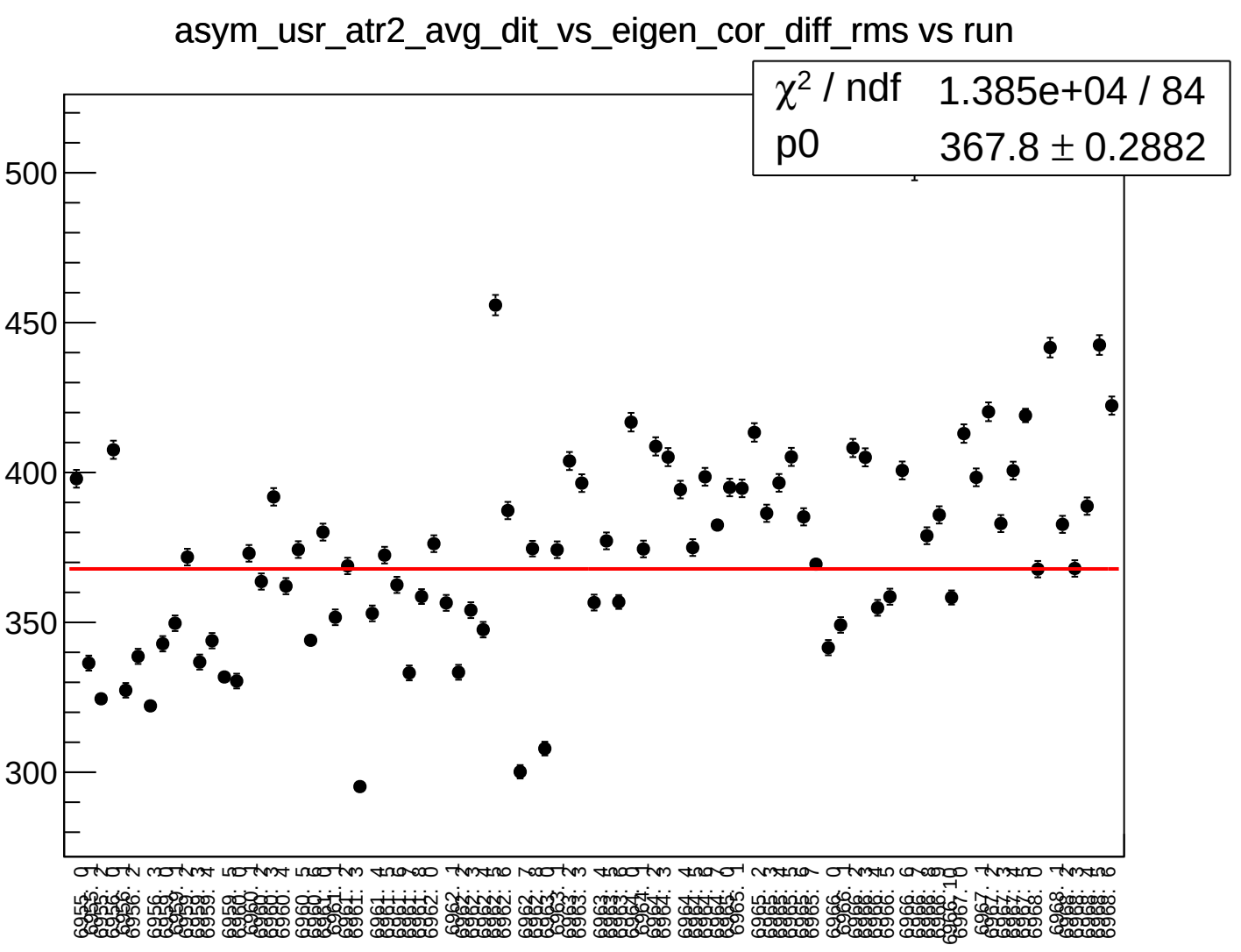

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.2 / 84
p0 −8.526e−14 ± 3.269e−13
pull
Entries 85
Mean 33.42
Std Dev 34.23
pull1D
Entries 85
Mean −0.06751
Std Dev 0.8866

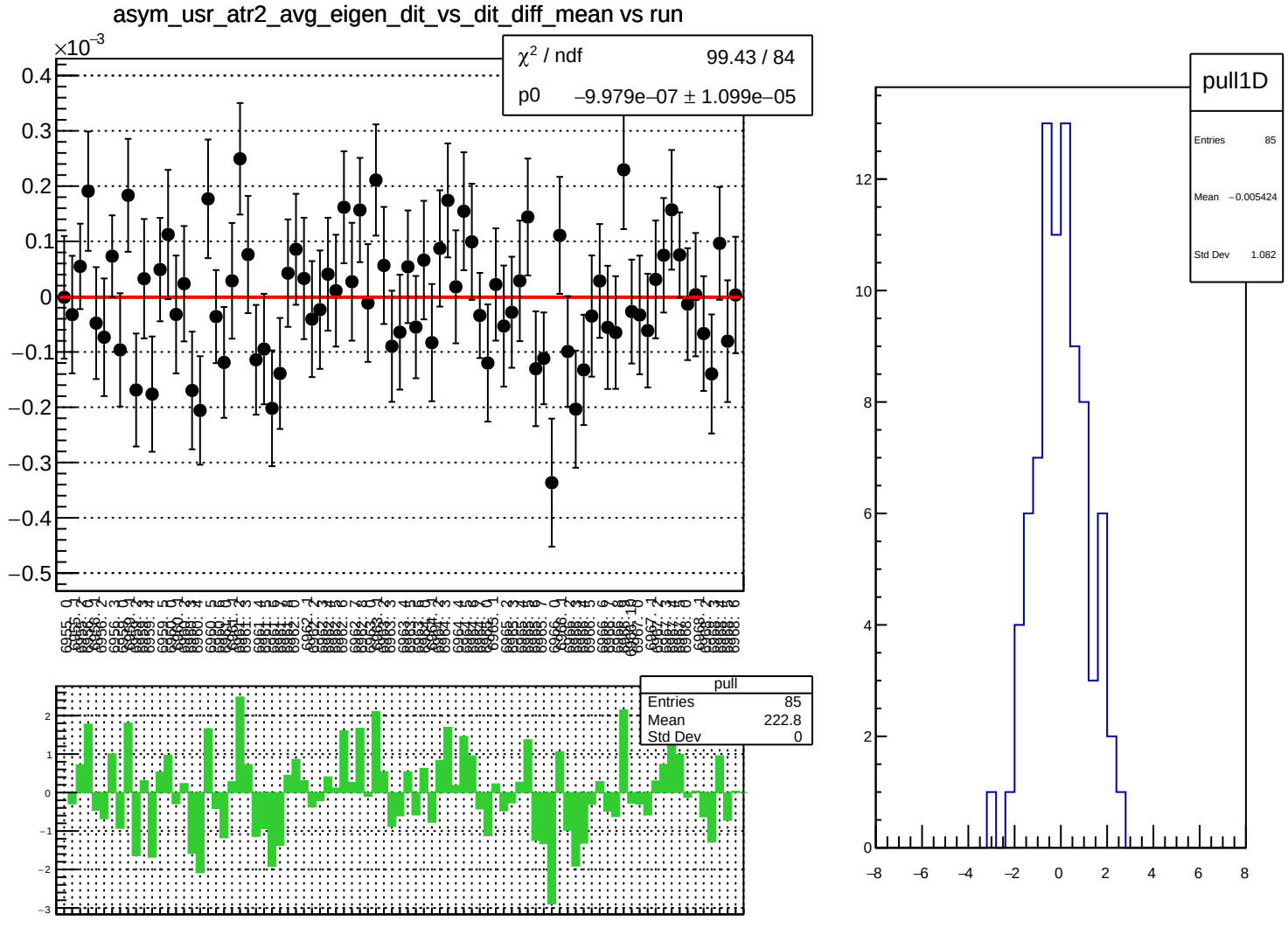

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.109e+06 / 84
p0 1.689e−10 ± 2.312e−13
1
0.8
0.6
0.4
0.2
0

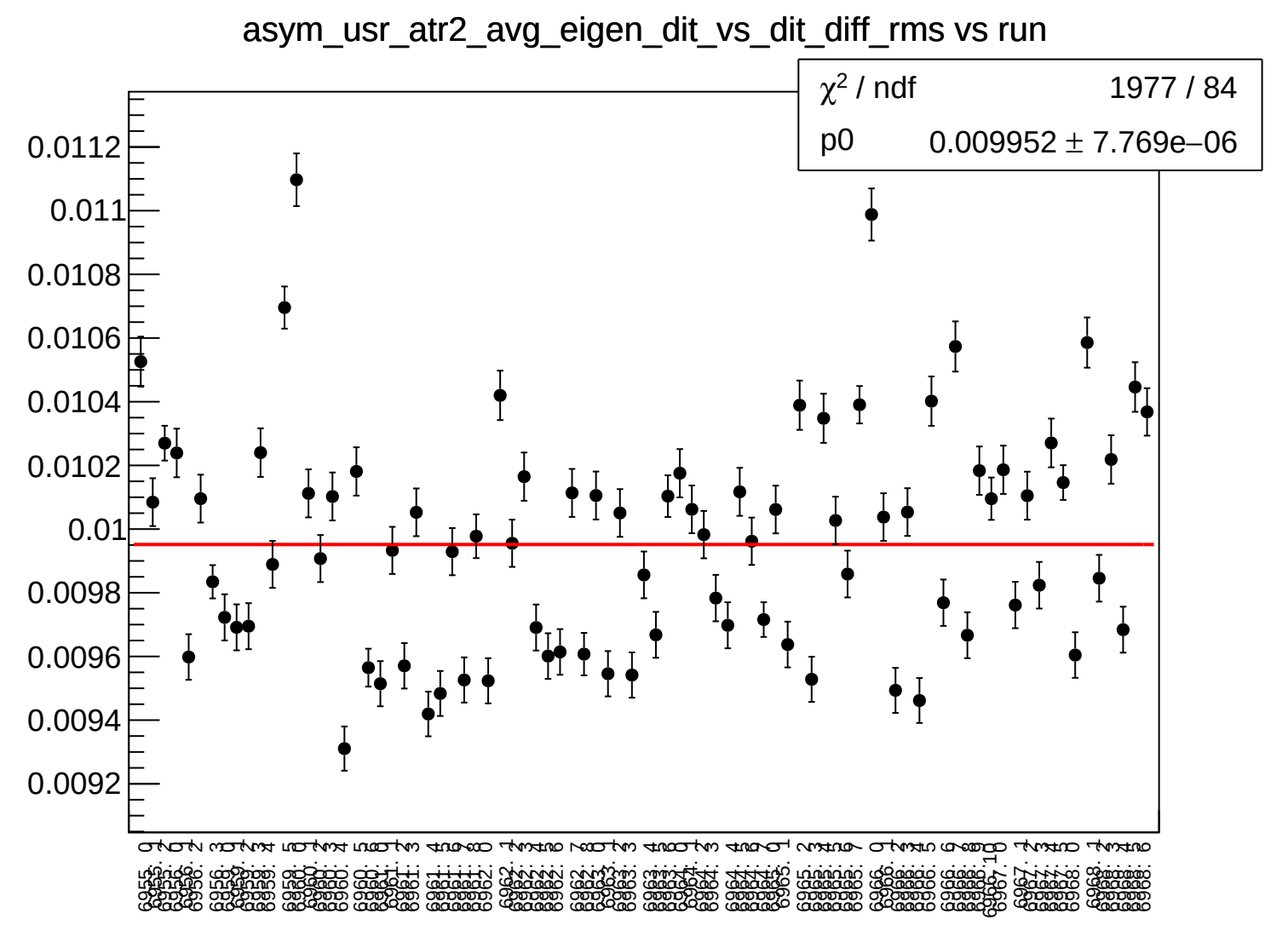

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.98 / 84
p0 −0.4648 ± 0.4076
pull
Entries 85
Mean 142.2
Std Dev 0
pull1D
Entries 85
Mean −0.01644
Std Dev 0.9819

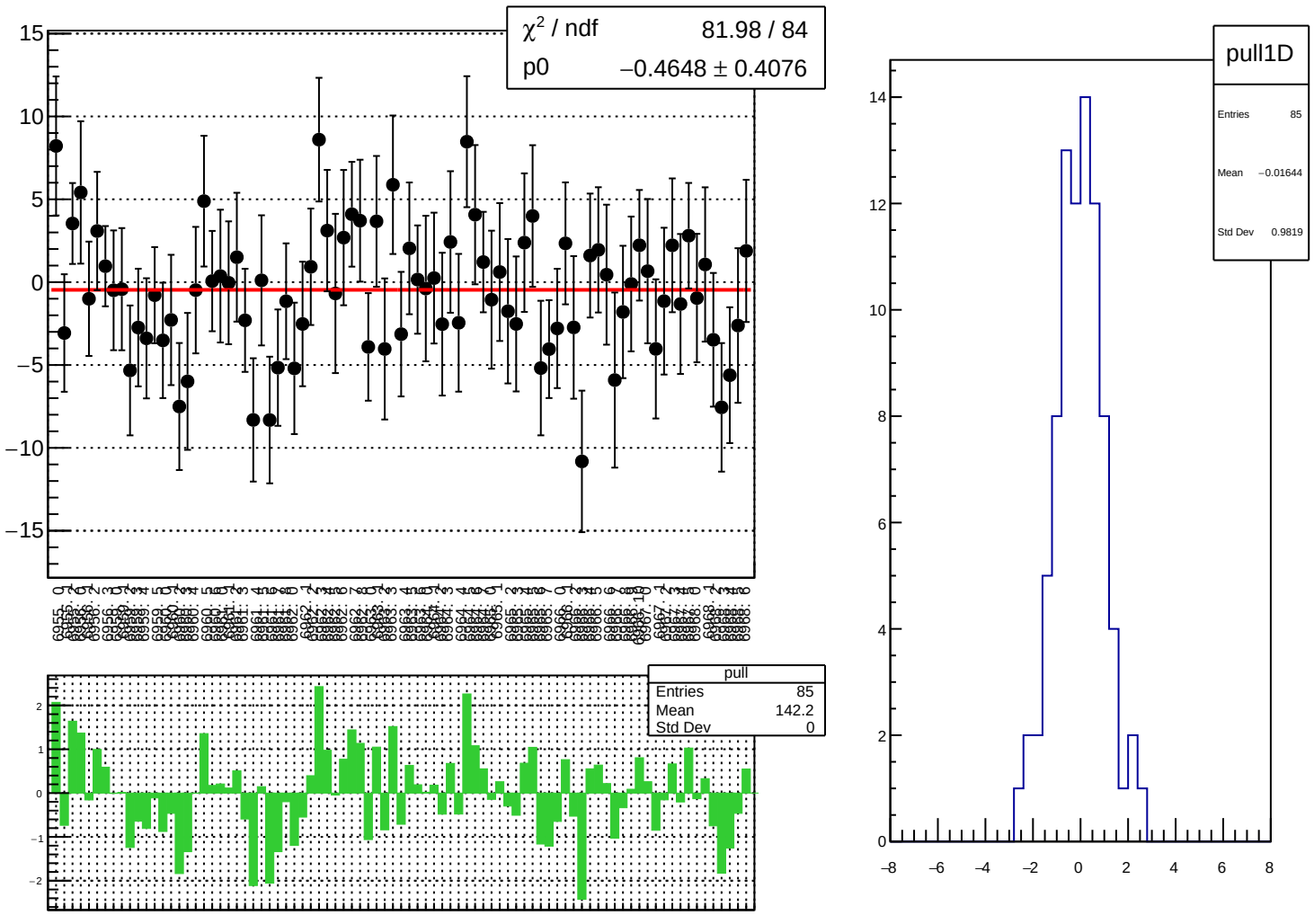

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.385e+04 / 84
p0 367.8 ± 0.2882
500
450
400
350
300

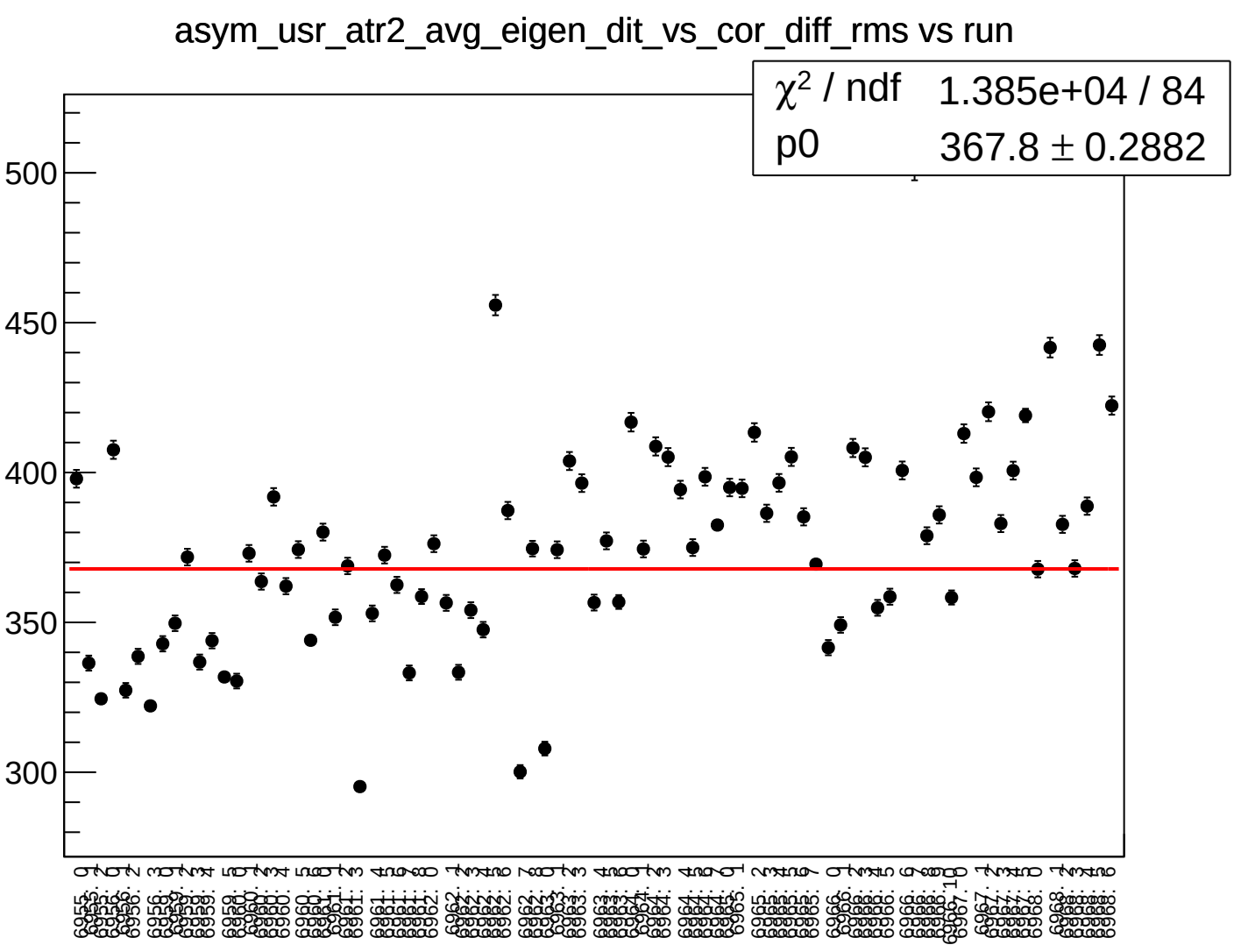

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.98 / 84
p0 −0.4648 ± 0.4076
pull
Entries 85
Mean 142.2
Std Dev 0
pull1D
Entries 85
Mean −0.01644
Std Dev 0.9819

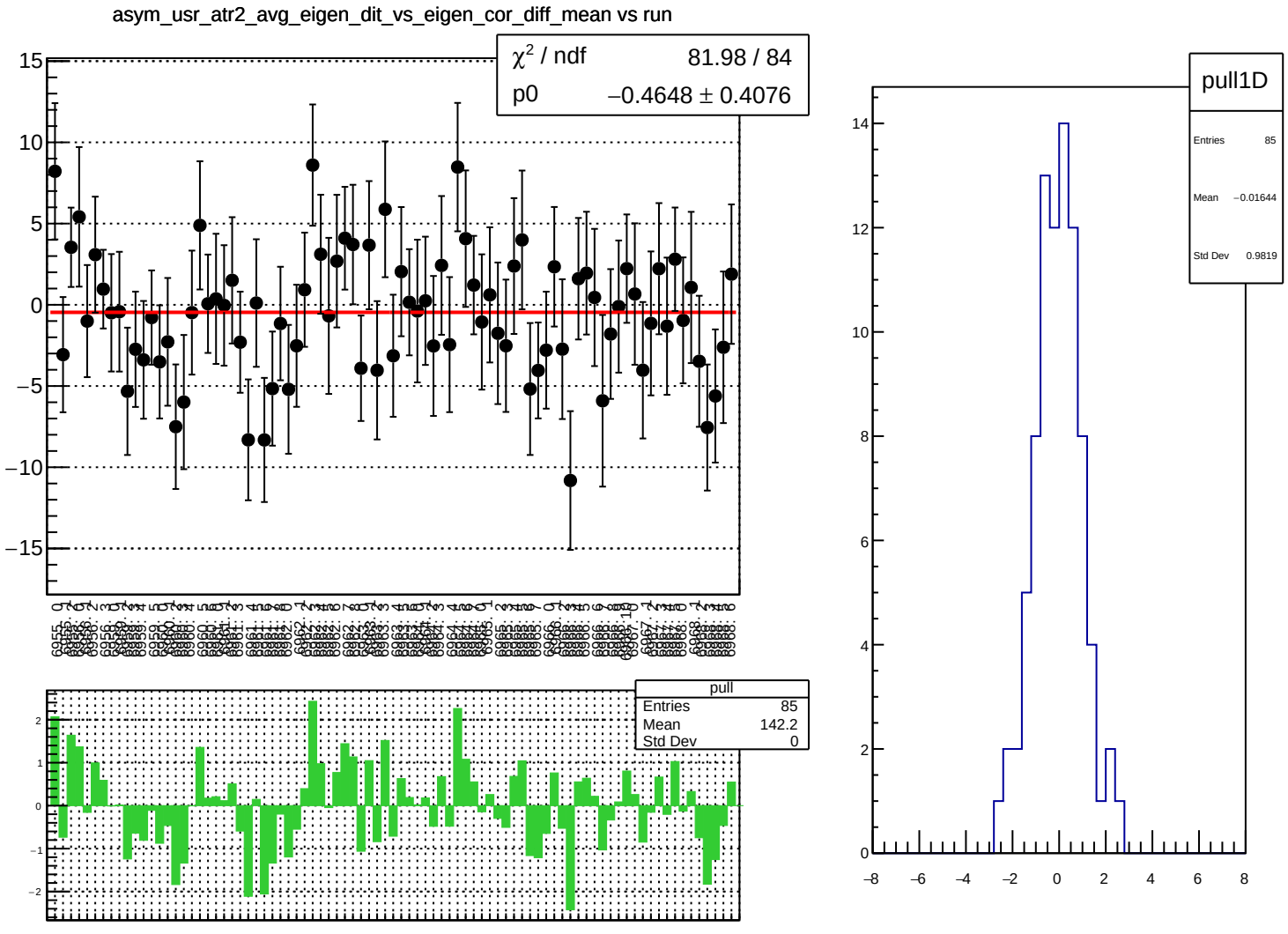

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.385e+04 / 84
p0 367.8 ± 0.2882
500
450
400
350
300

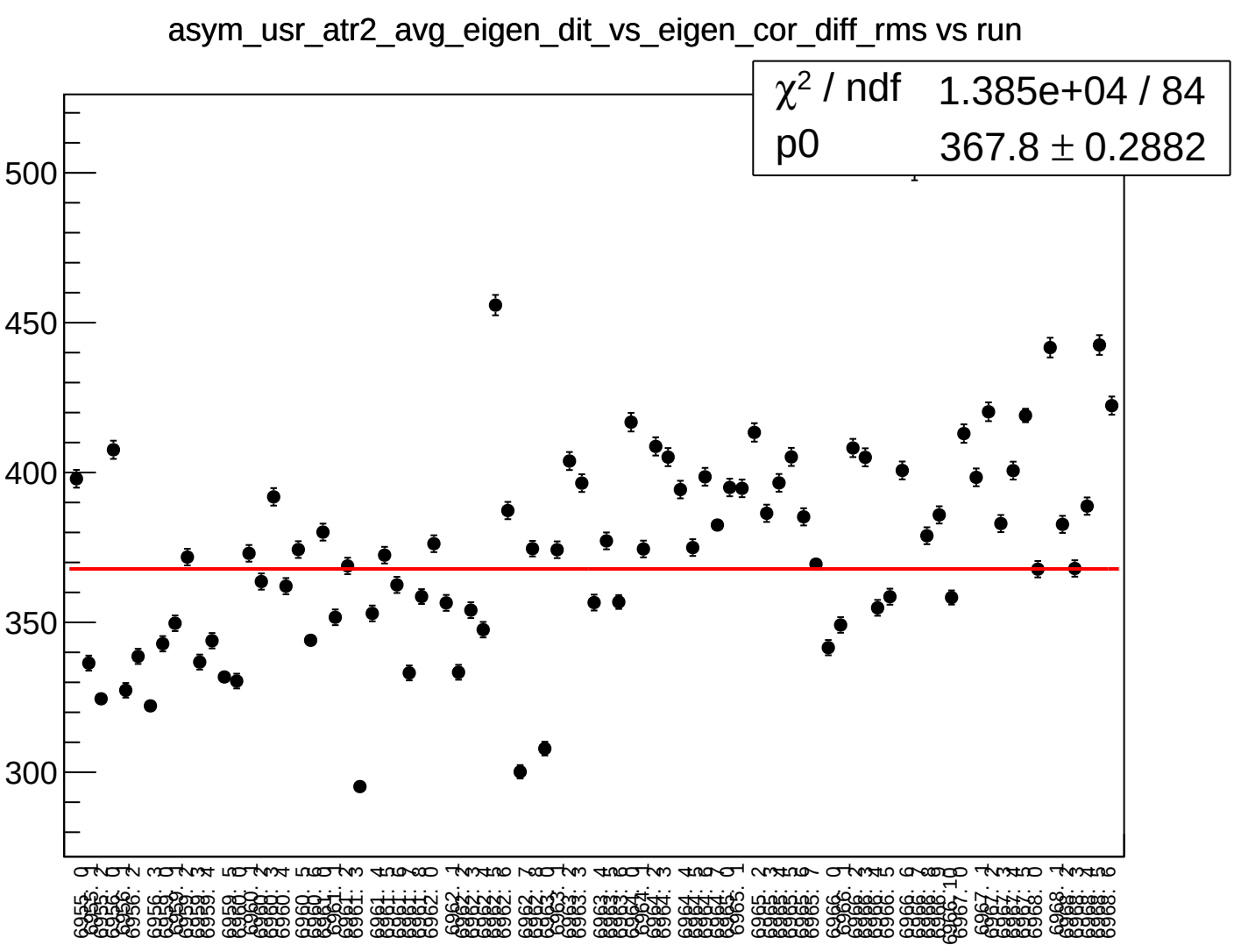

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.43 / 84
p0 −9.979e−07 ± 1.099e−05
pull
Entries 85
Mean 222.8
Std Dev 0
pull1D
Entries 85
Mean −0.005424
Std Dev 1.082

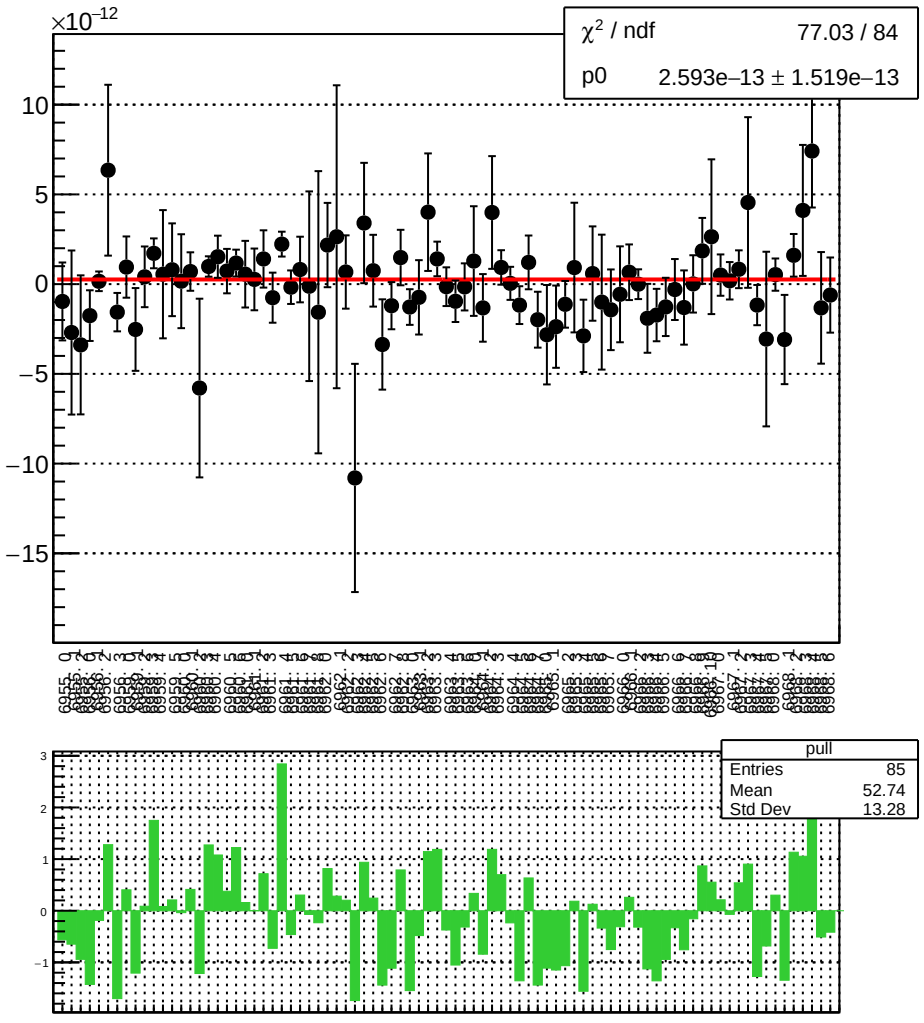

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1977 / 84
p0 0.009952 ± 7.769e−06
0.0112
0.011
0.0108
0.0106
0.0104
0.0102
0.01
0.0098
0.0096
0.0094
0.0092

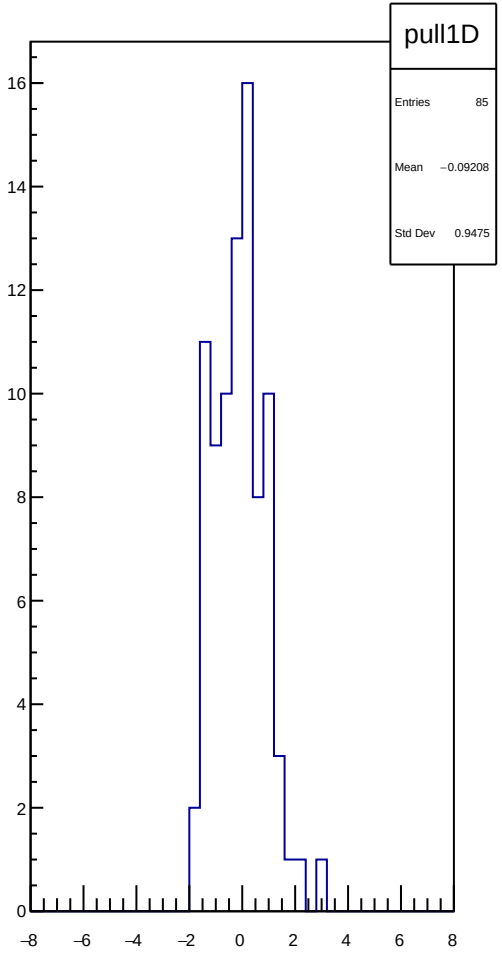

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.98 / 84
p0 −0.4648 ± 0.4076
pull
Entries 85
Mean 142.2
Std Dev 0
pull1D
Entries 85
Mean −0.01644
Std Dev 0.9819

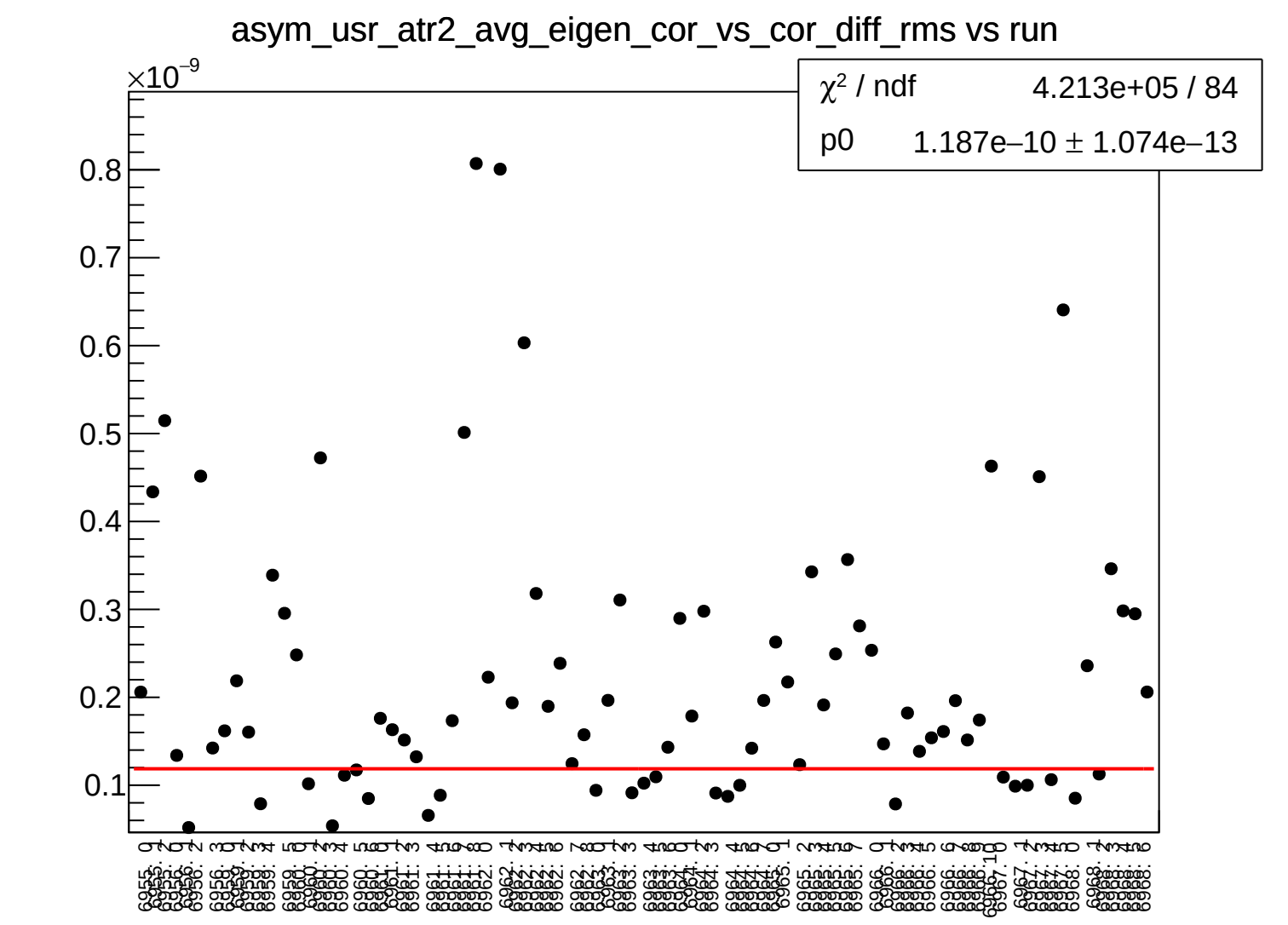

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.385e+04 / 84
p0 367.8 ± 0.2882
500
450
400
350
300

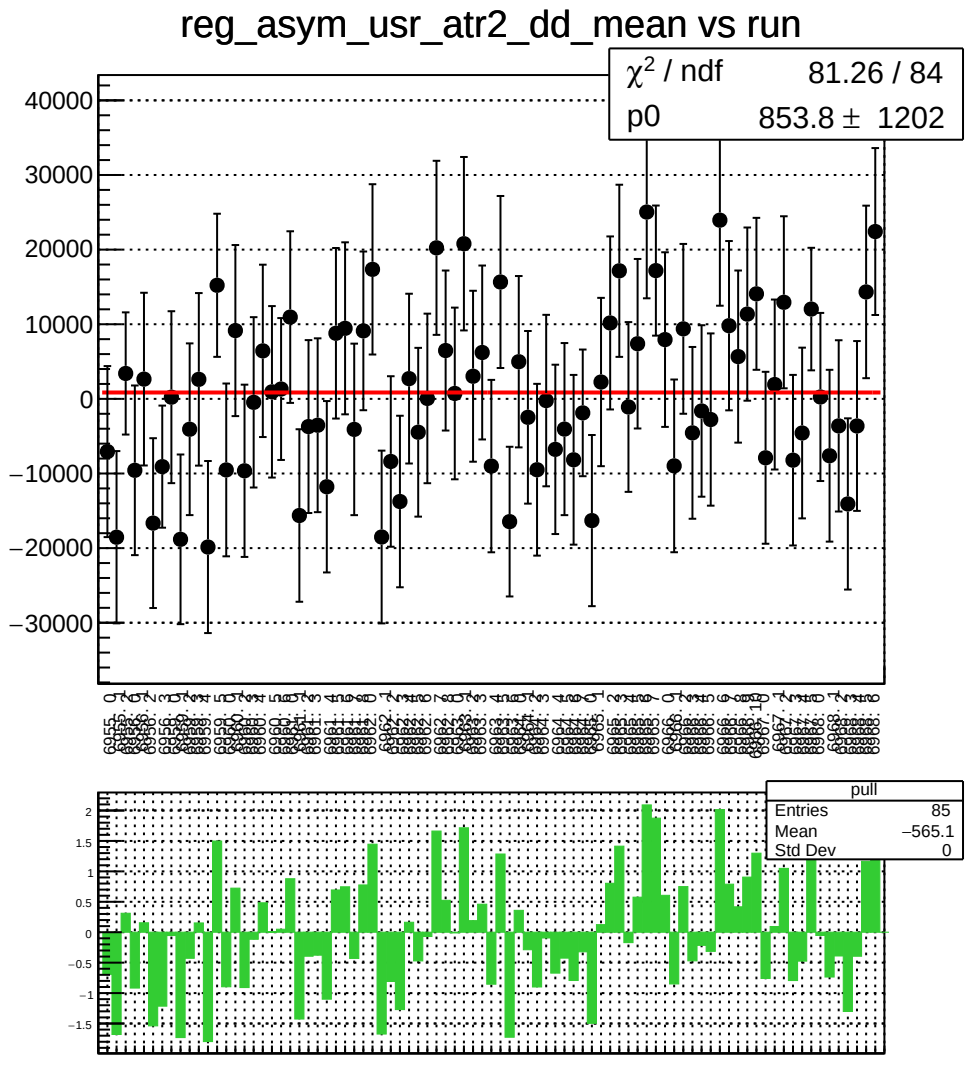

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.98 / 84
p0 −0.4648 ± 0.4076
pull
Entries 85
Mean 142.2
Std Dev 0
pull1D
Entries 85
Mean −0.01644
Std Dev 0.9819

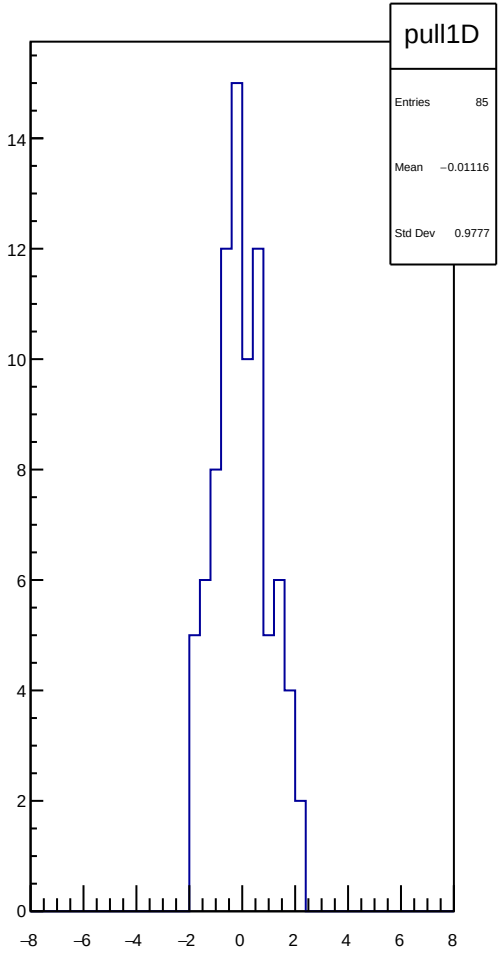

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.385e+04 / 84
p0 367.8 ± 0.2882
500
450
400
350
300

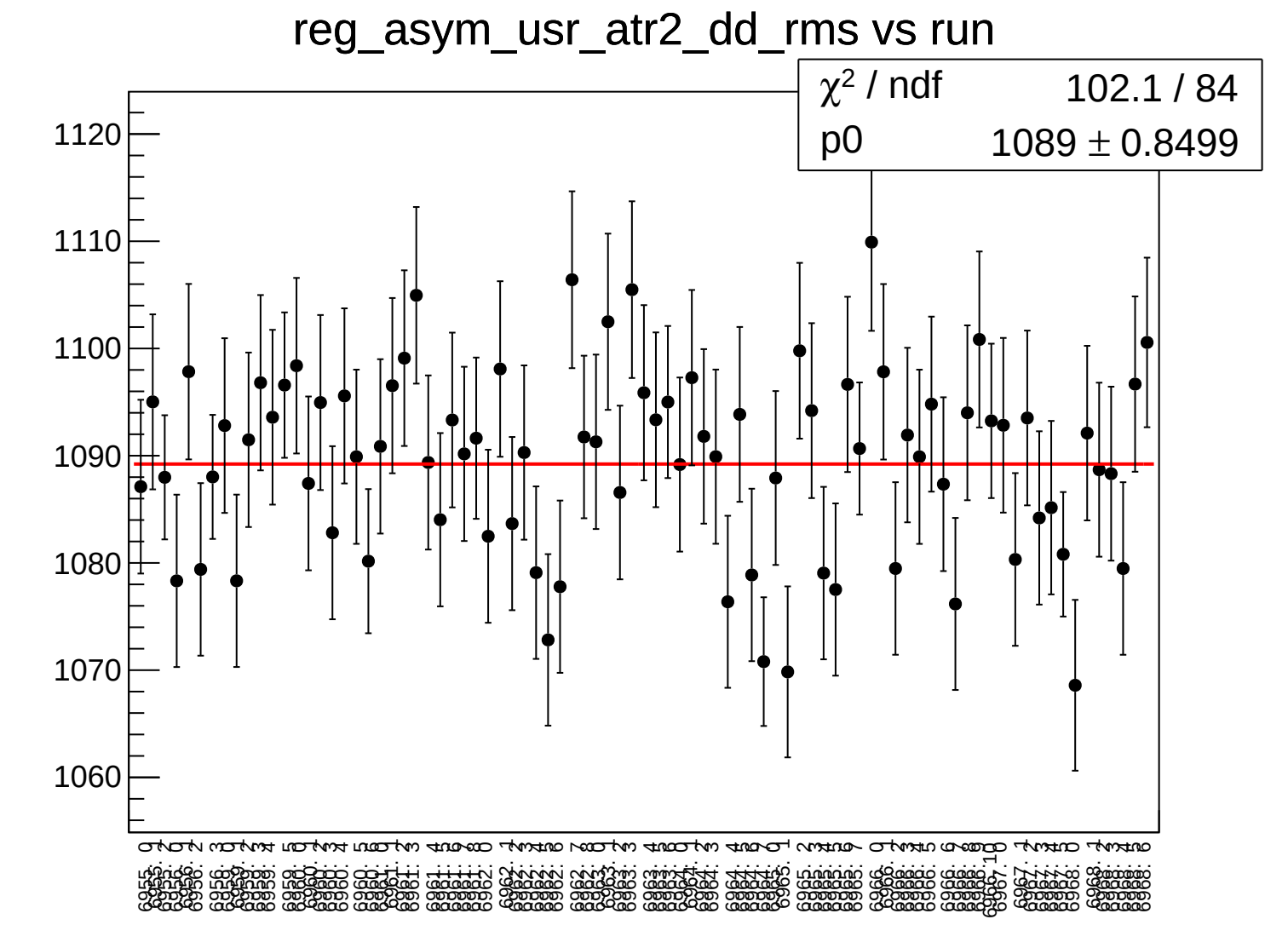

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.03 / 84
p0 2.593e−13 ± 1.519e−13
pull
Entries 85
Mean 52.74
Std Dev 13.28

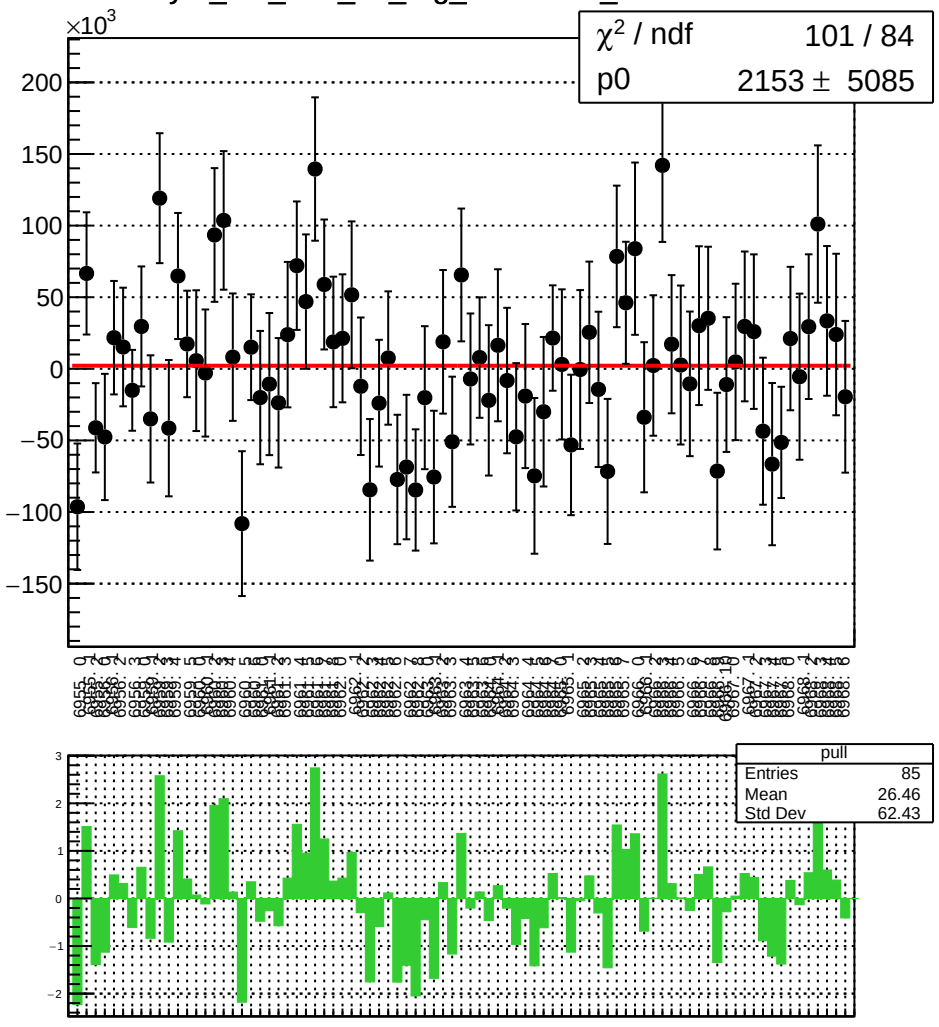

pull1D
Entries 85
Mean −0.09208
Std Dev 0.9475

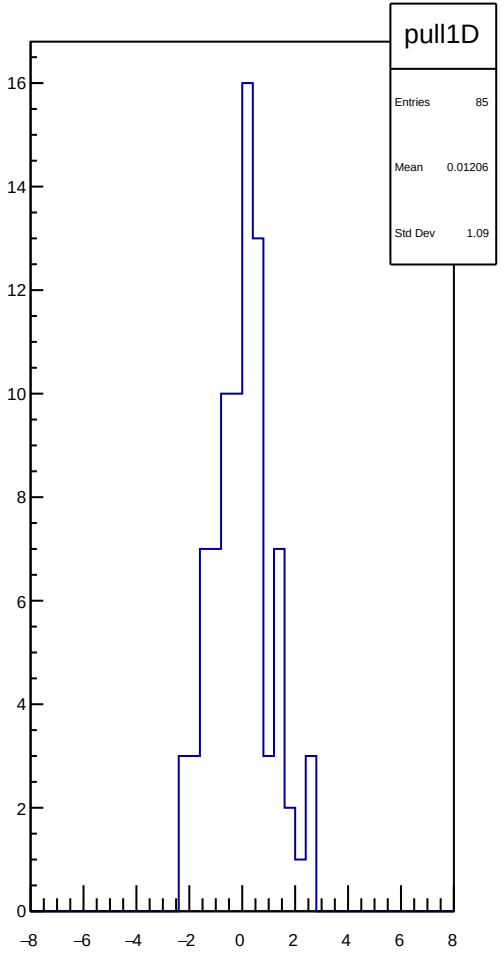

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.213e+05 / 84
p0 1.187e−10 ± 1.074e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

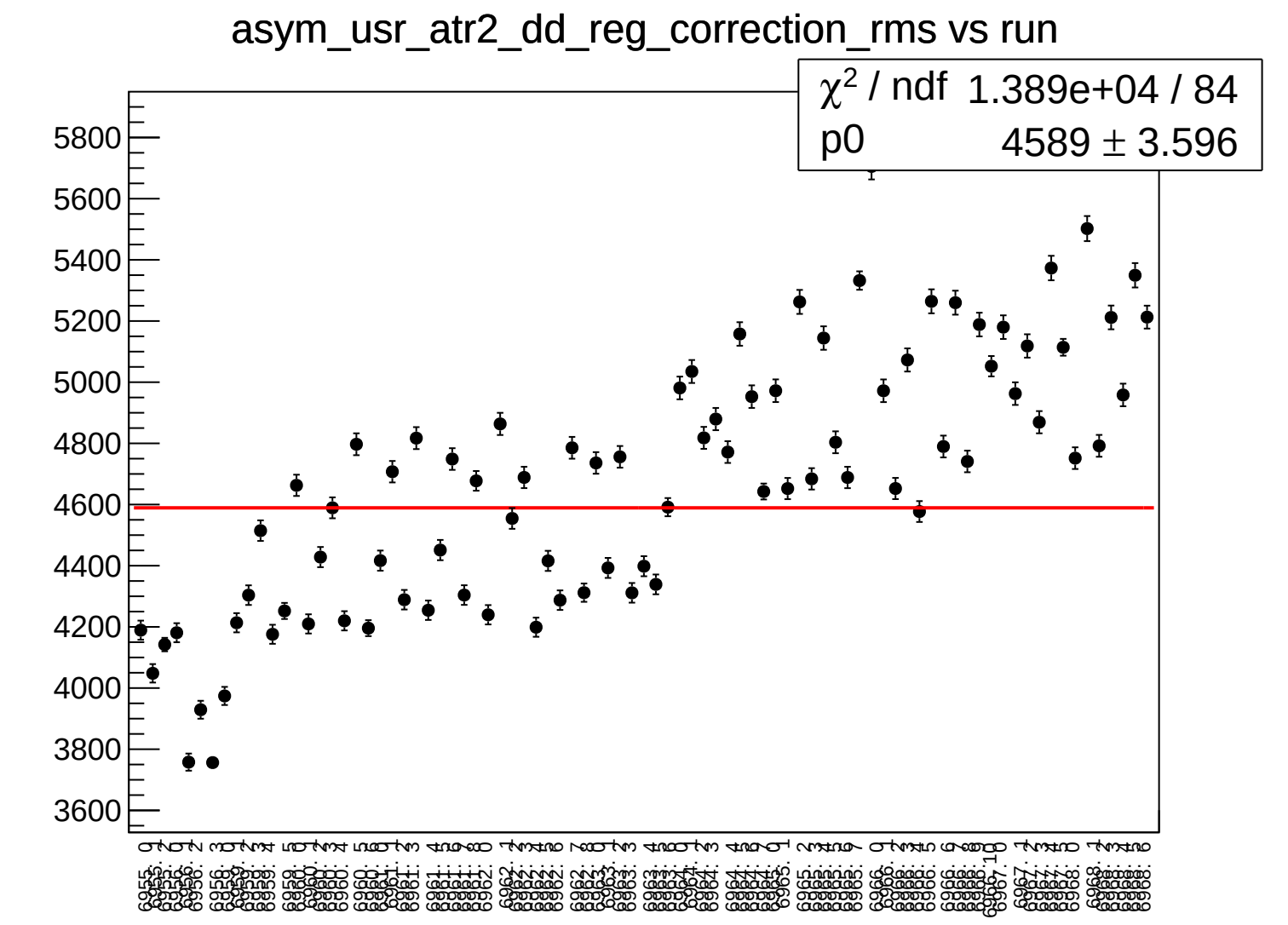

reg_asym_usr_atr2_dd_mean vs run
$\chi^2$ / ndf 81.26 / 84
p0 853.8 ± 1202
pull
Entries 85
Mean −565.1
Std Dev 0

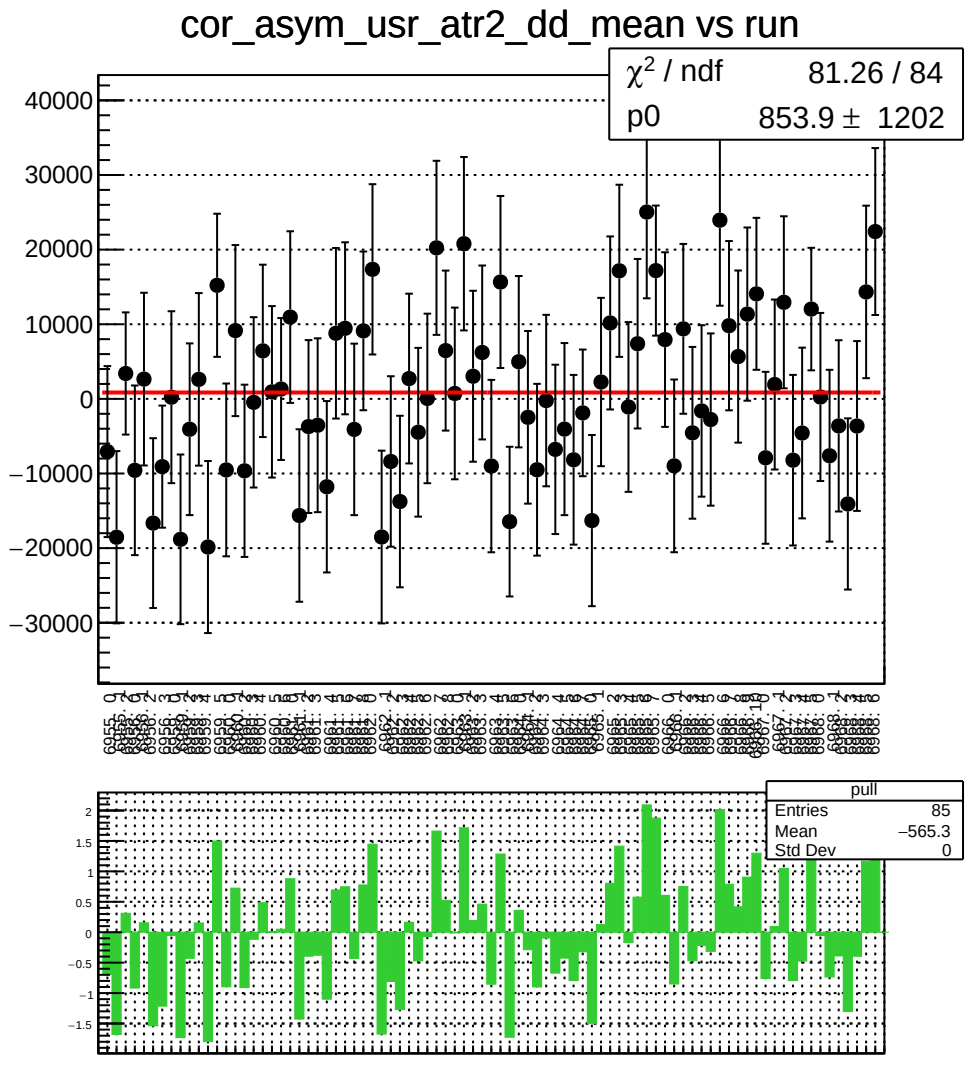

pull1D
Entries 85
Mean −0.01116
Std Dev 0.9777

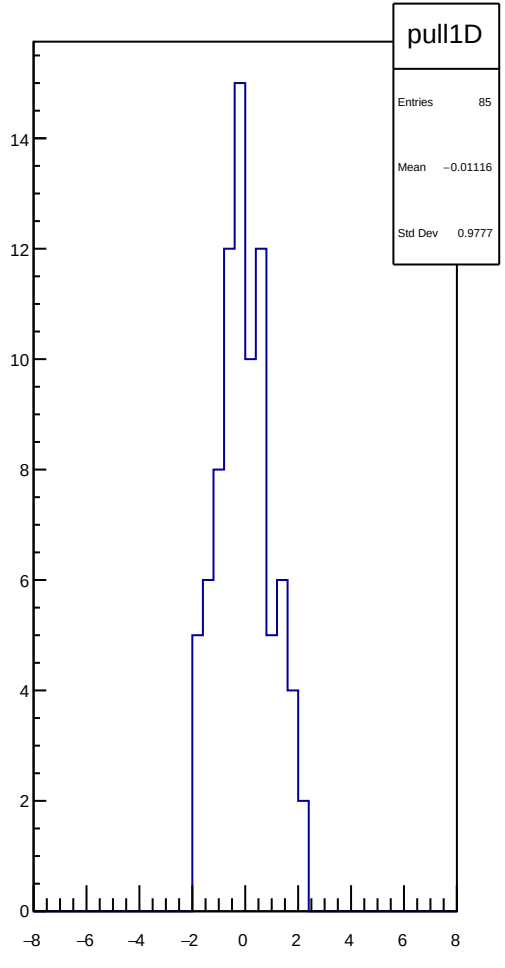

reg_asym_usr_atr2_dd_rms vs run
$\chi^2$ / ndf 102.1 / 84
p0 1089 ± 0.8499
1120
1110
1100
1090
1080
1070
1060

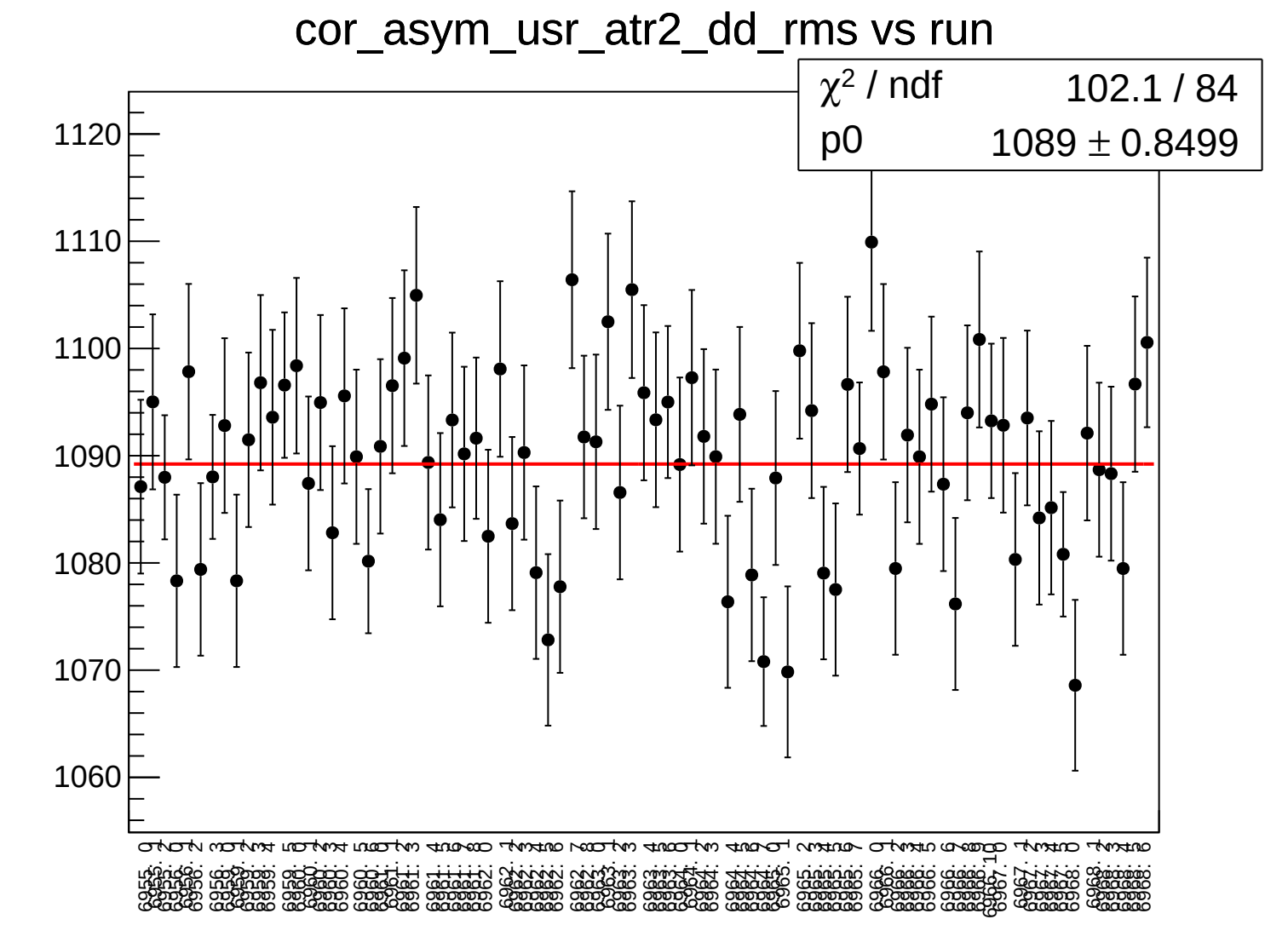

asym_usr_atr2_dd_reg_correction_mean vs run
χ² / ndf 101 / 84
p0 2153 ± 5085
pull
Entries 85
Mean 26.46
Std Dev 62.43

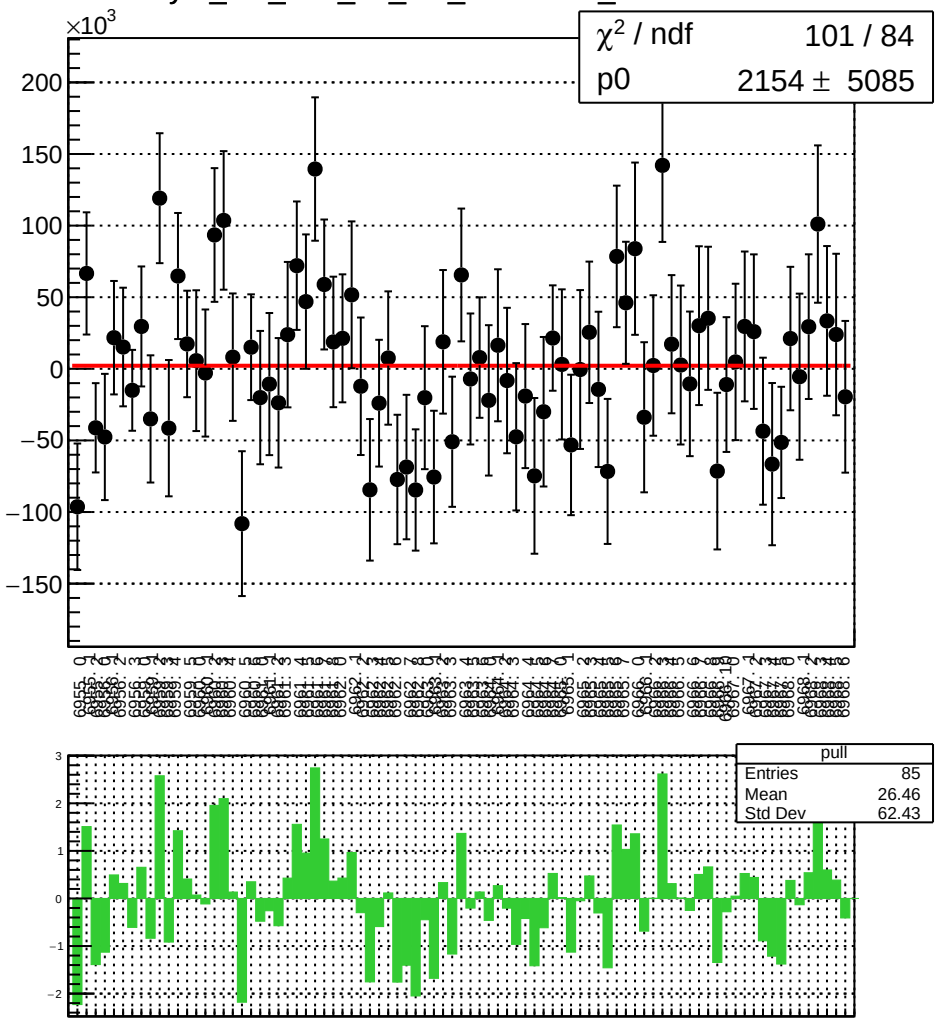

pull1D
Entries 85
Mean 0.01206
Std Dev 1.09

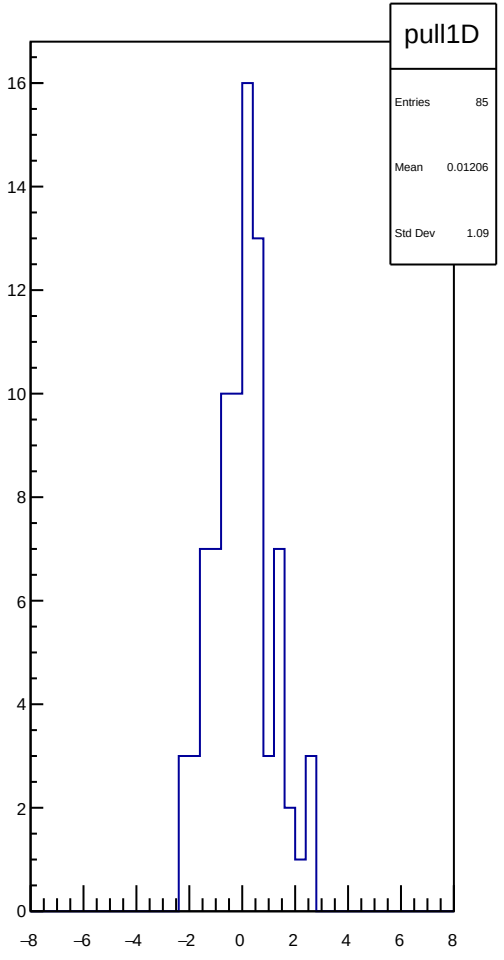

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1.389e+04 / 84
p0 4589 ± 3.596
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

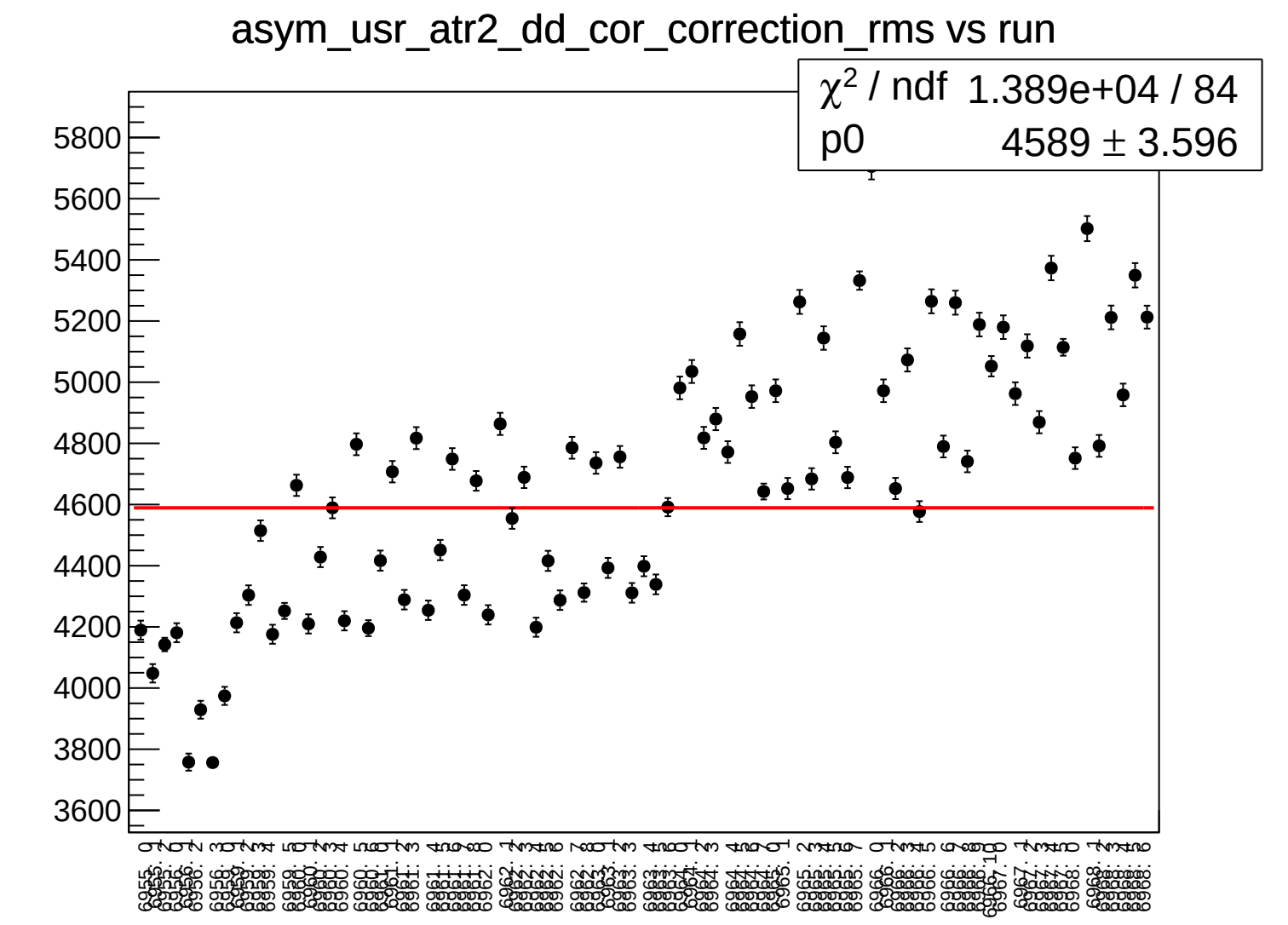

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 81.26 / 84
p0 853.9 ± 1202
pull
Entries 85
Mean −565.3
Std Dev 0

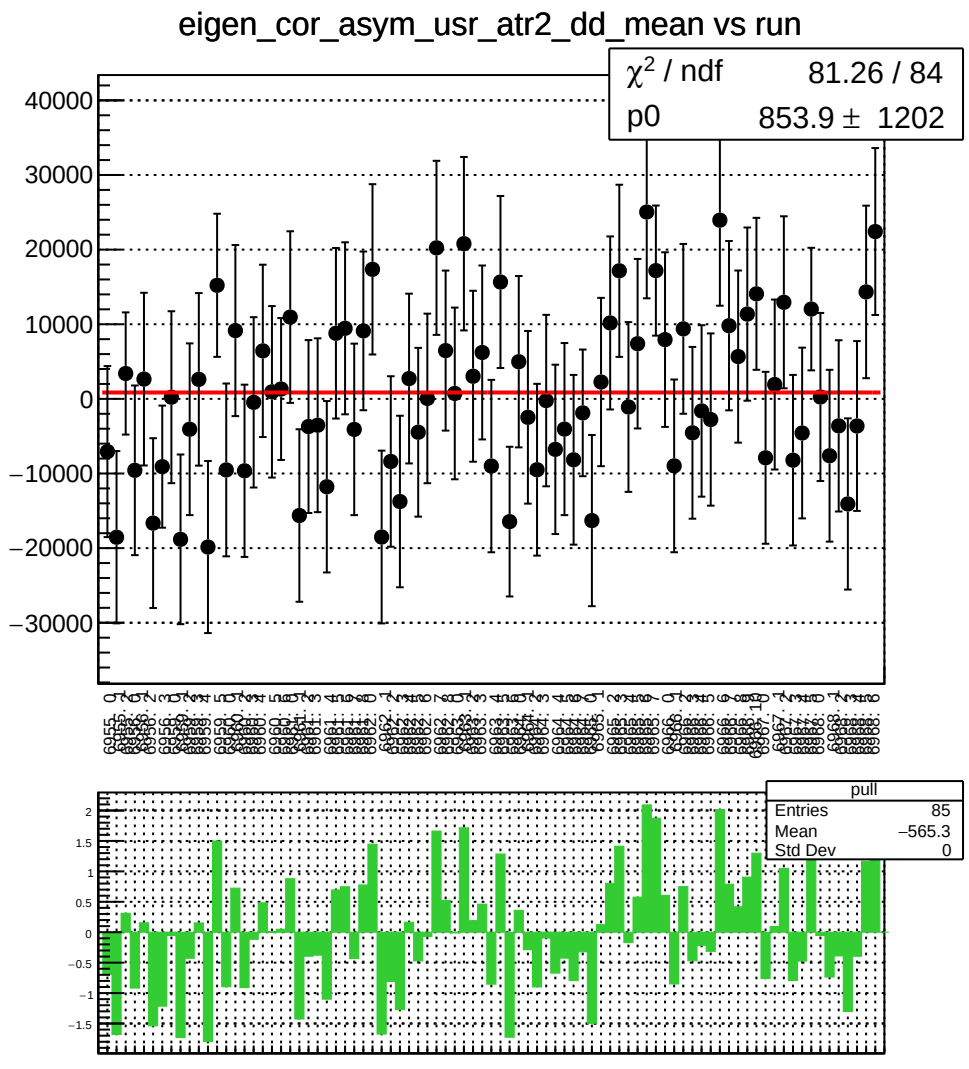

pull1D
Entries 85
Mean −0.01116
Std Dev 0.9777

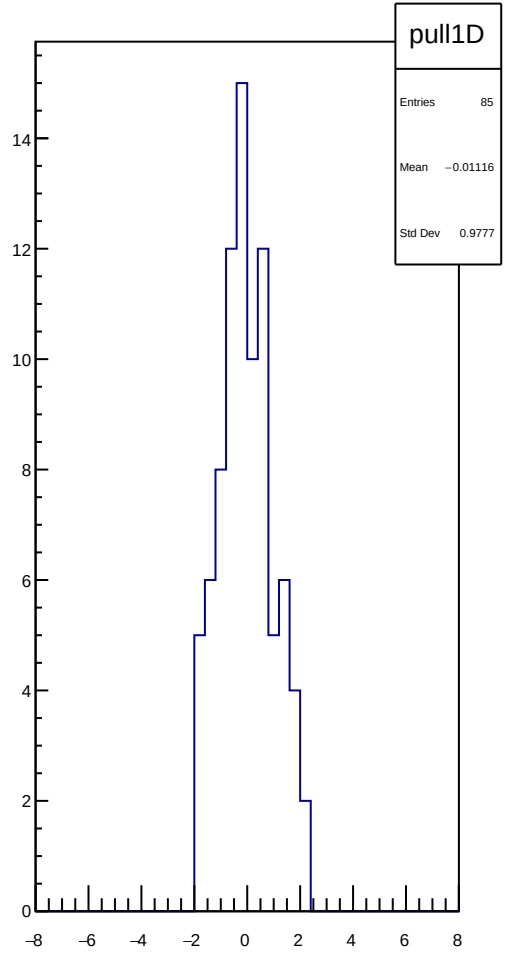

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 102.1 / 84
p0 1089 ± 0.8499
1120
1110
1100
1090
1080
1070
1060

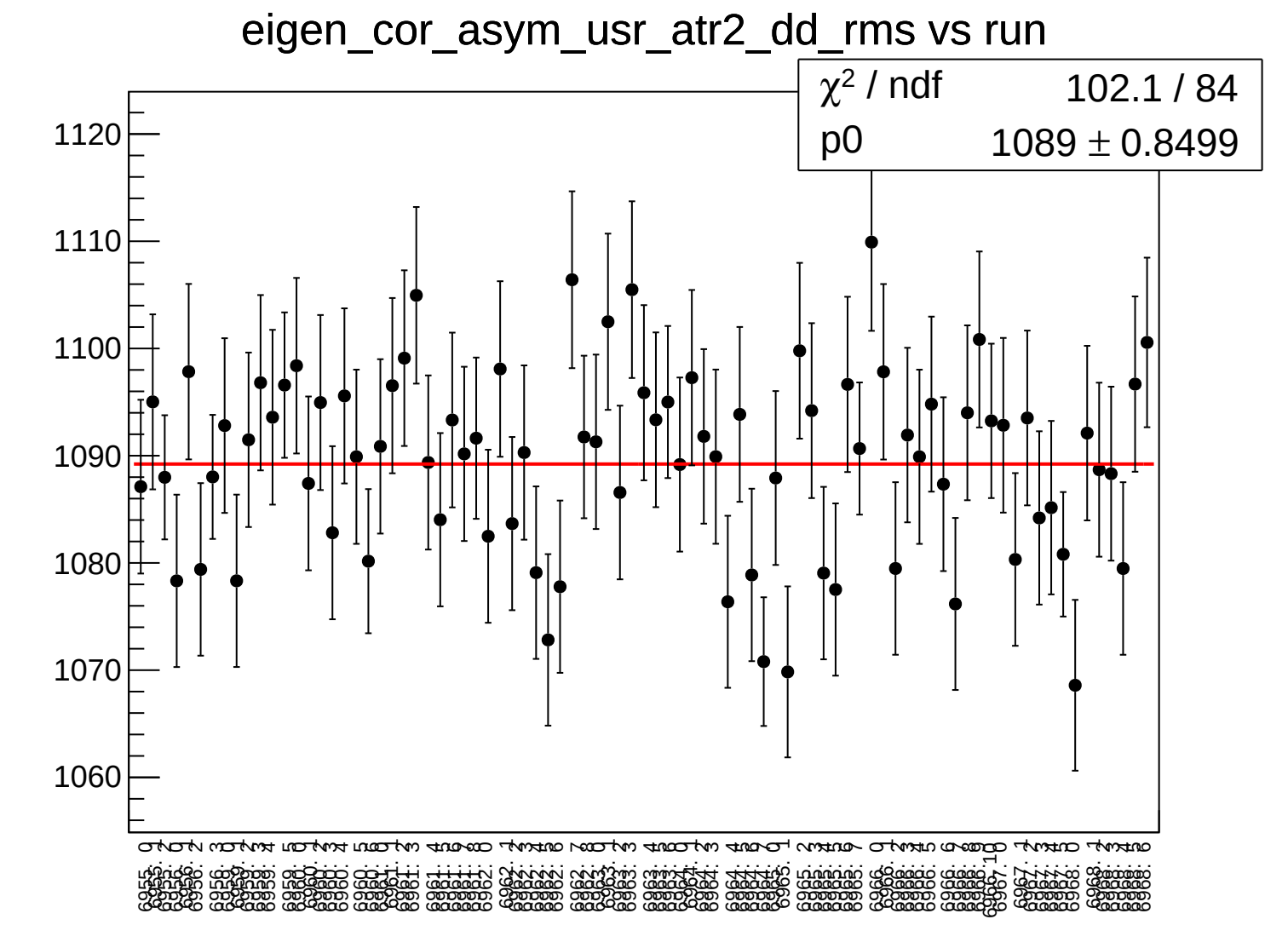

asym_usr_atr2_dd_cor_correction_mean vs run
$\chi^2$ / ndf 101 / 84
p0 2154 ± 5085
×10^3
pull
Entries 85
Mean 26.46
Std Dev 62.43

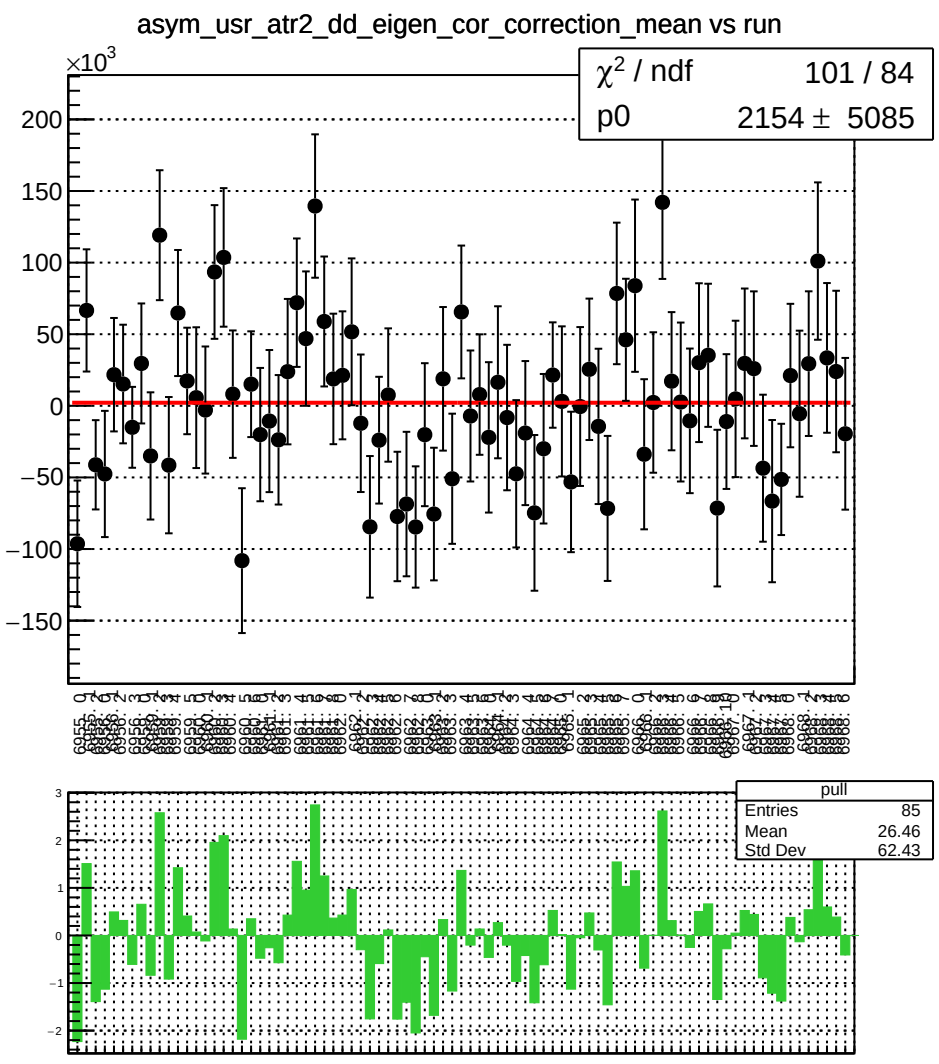

pull1D
Entries 85
Mean 0.01206
Std Dev 1.09

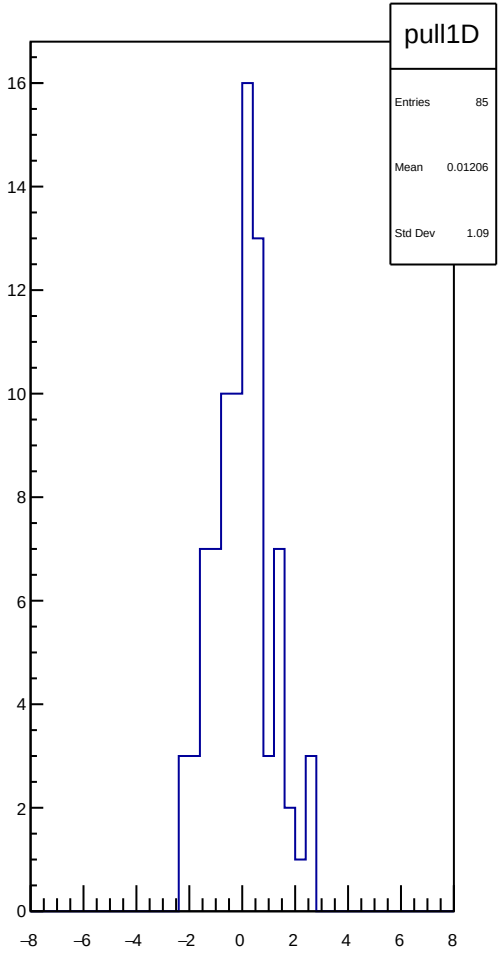

asym_usr_atr2_dd_cor_correction_rms vs run
$\chi^2$ / ndf 1.389e+04 / 84
p0 4589 ± 3.596
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

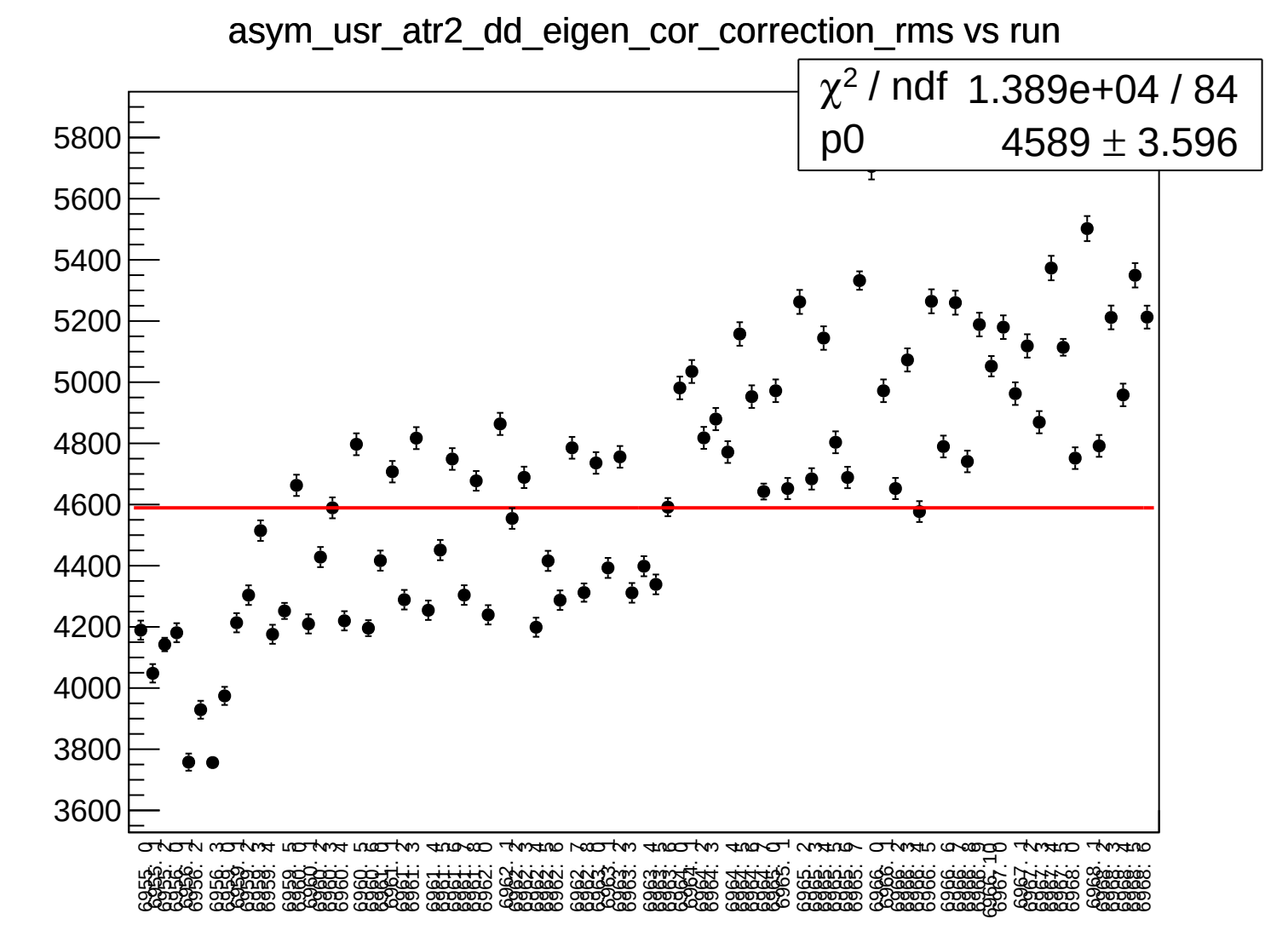

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 81.26 / 84
p0 853.9 ± 1202
pull
Entries 85
Mean −565.3
Std Dev 0

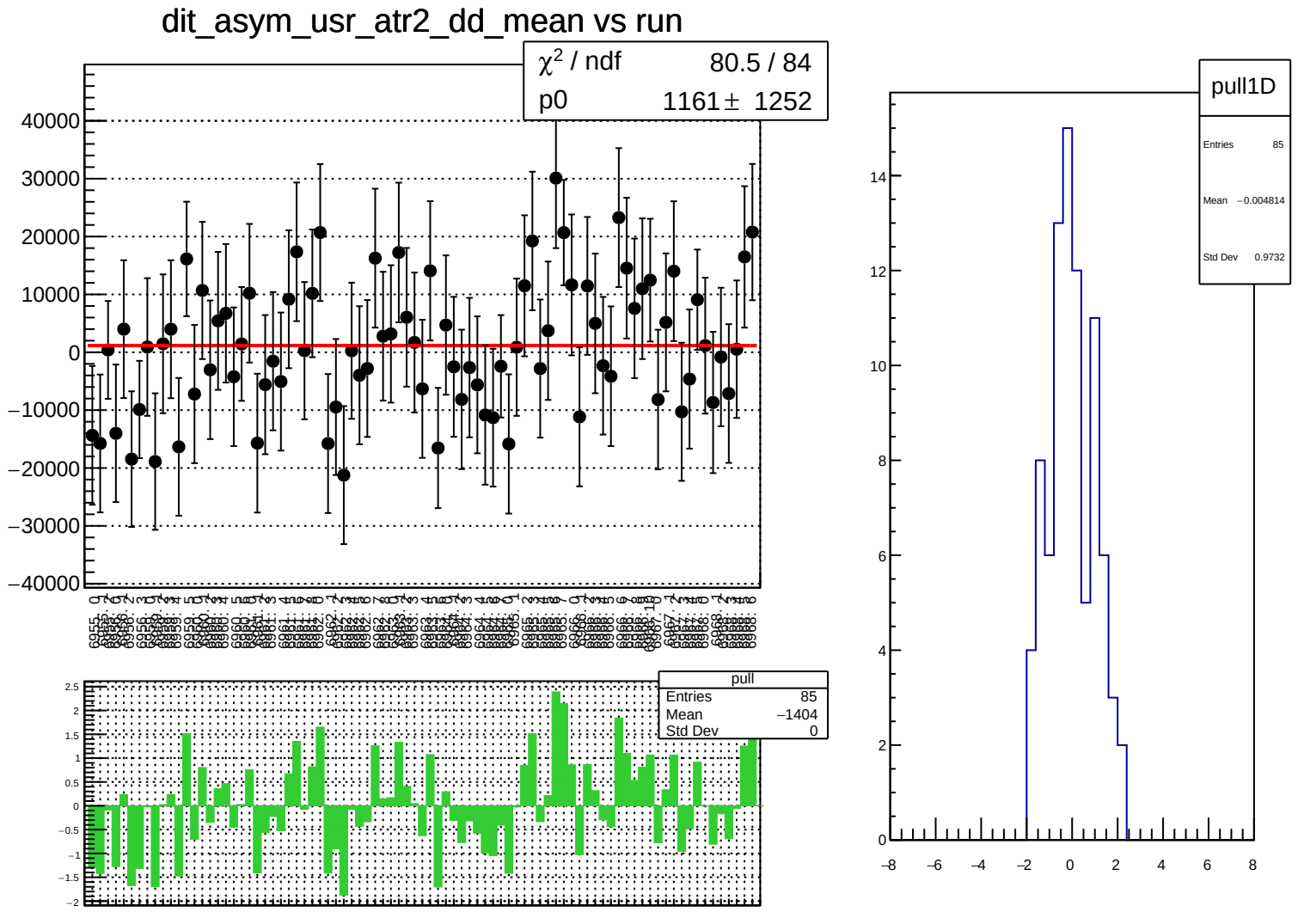

pull1D
Entries 85
Mean −0.01116
Std Dev 0.9777

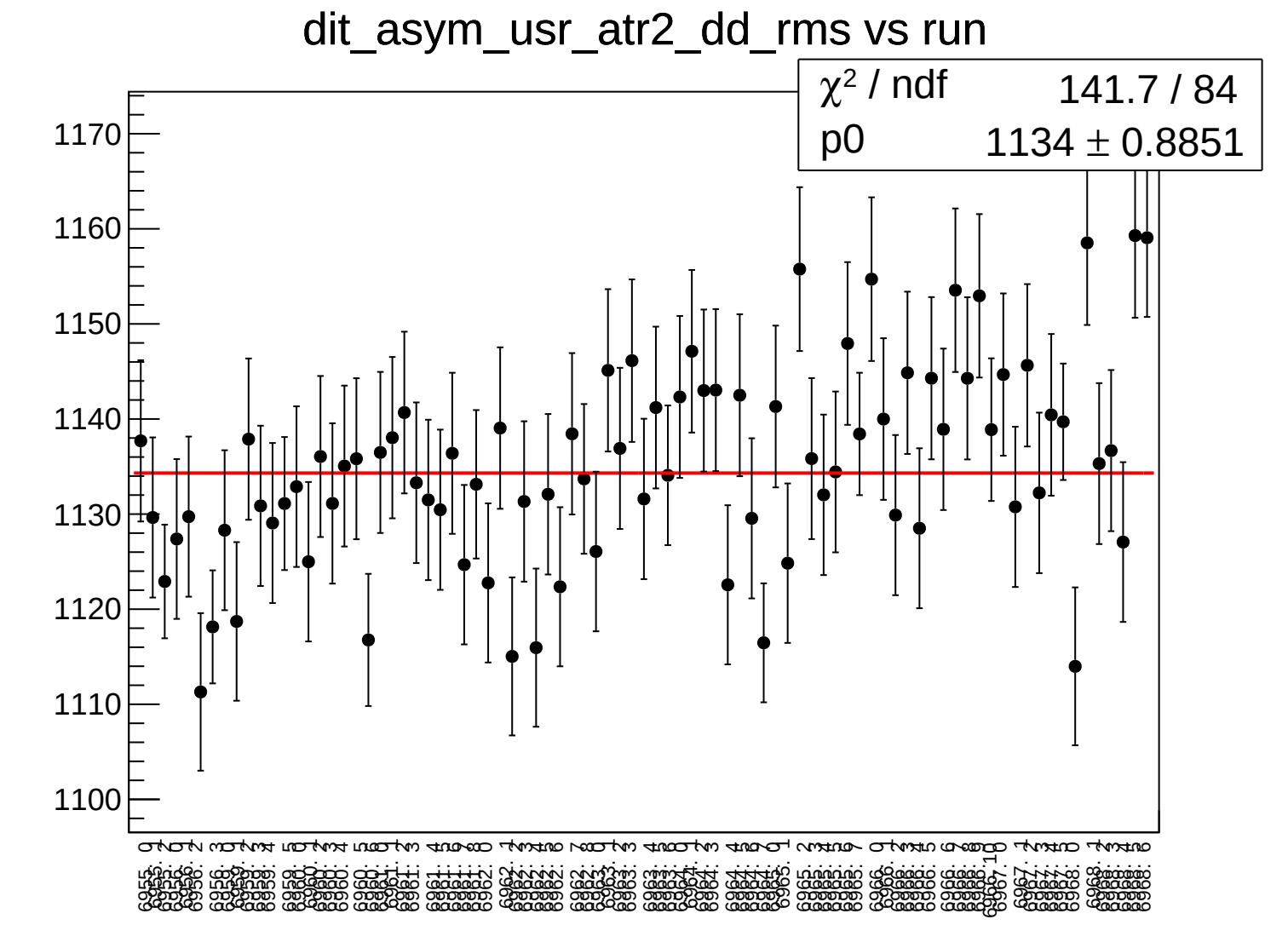

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 102.1 / 84
p0 1089 ± 0.8499
1120
1110
1100
1090
1080
1070
1060

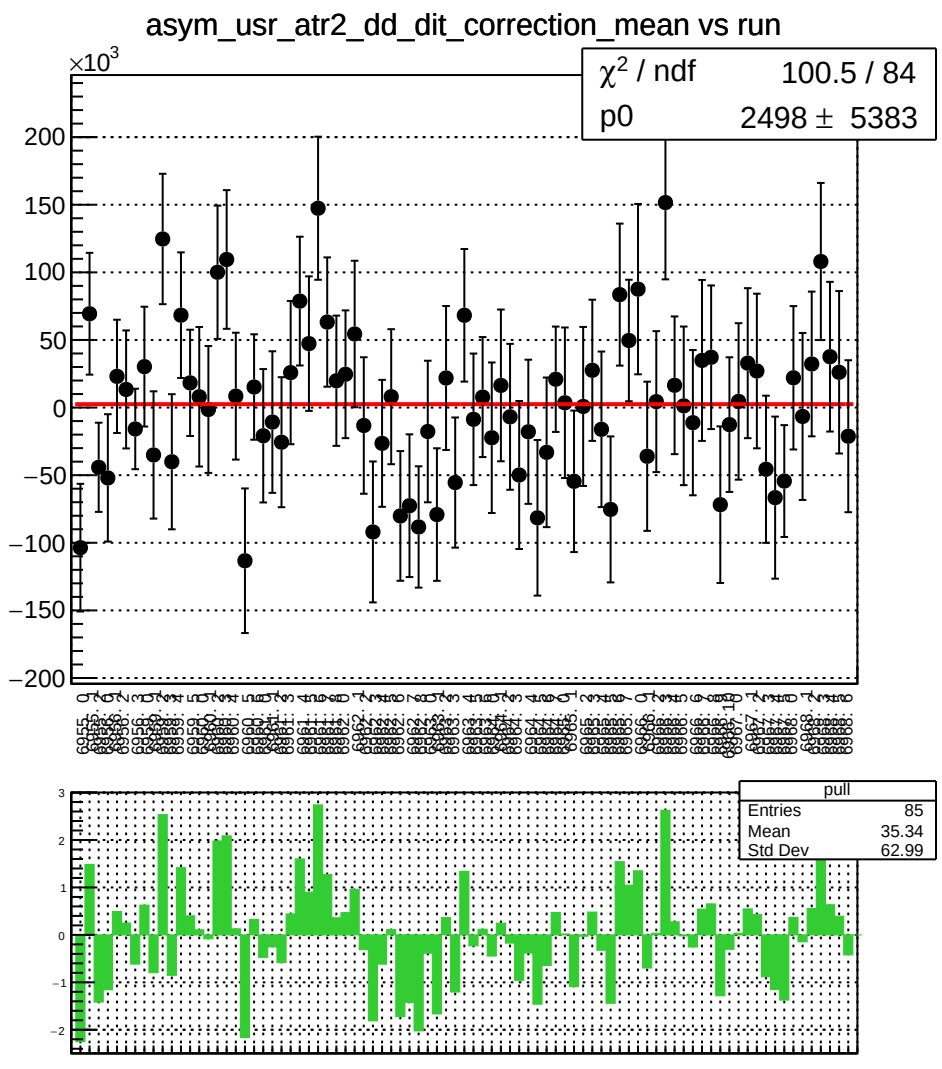

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 101 / 84
p0 2154 ± 5085
pull
Entries 85
Mean 26.46
Std Dev 62.43

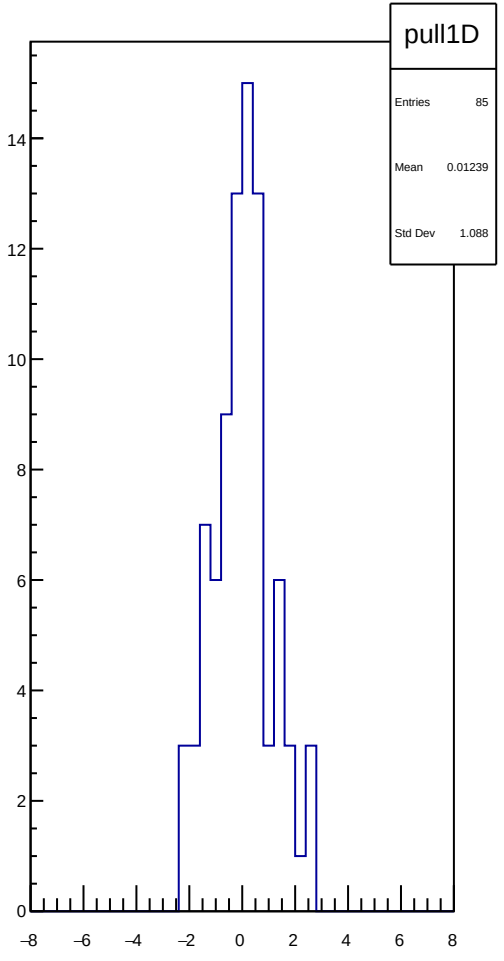

pull1D
Entries 85
Mean 0.01206
Std Dev 1.09

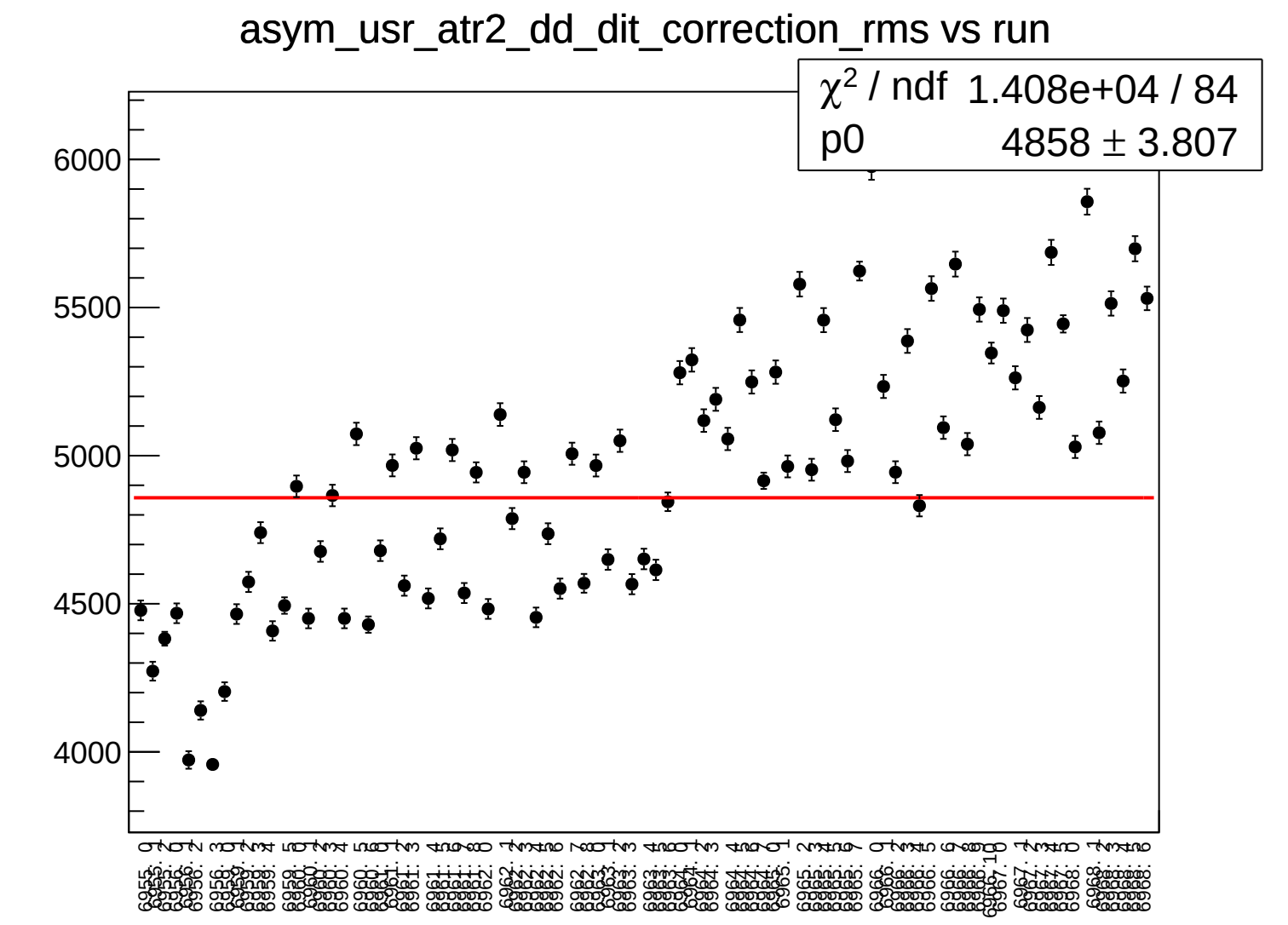

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.389e+04 / 84
p0 4589 ± 3.596
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

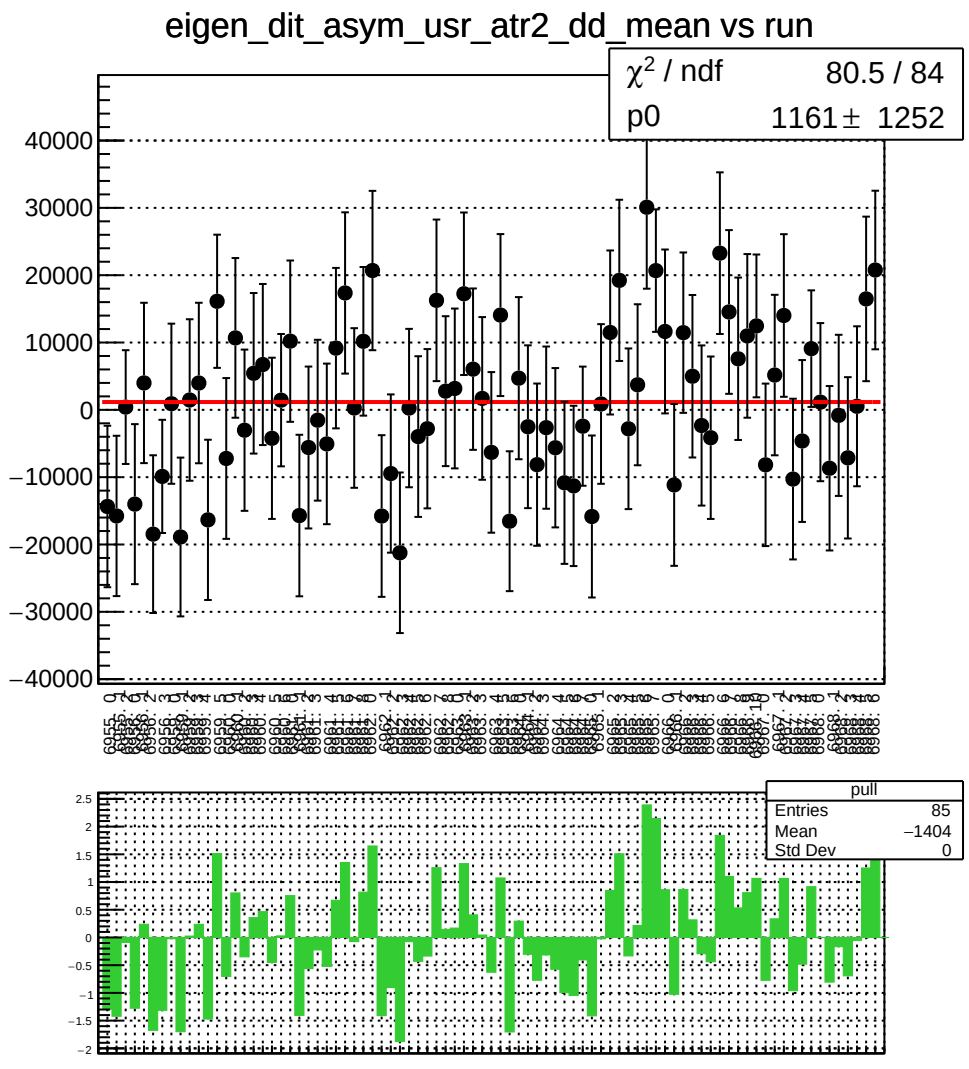

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 80.5 / 84
p0 1161 ± 1252
pull
Entries 85
Mean −1404
Std Dev 0
pull1D
Entries 85
Mean −0.004814
Std Dev 0.9732

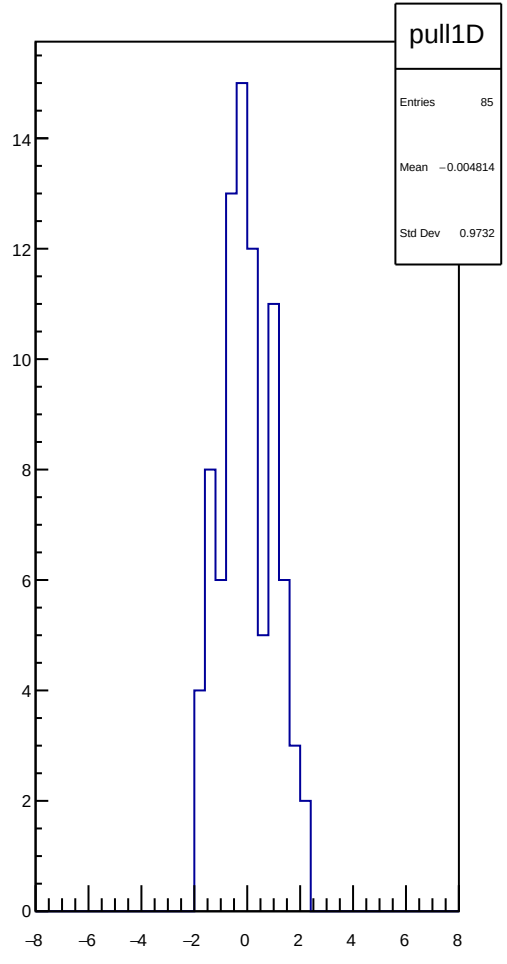

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 141.7 / 84
p0 1134 ± 0.8851
1170
1160
1150
1140
1130
1120
1110
1100

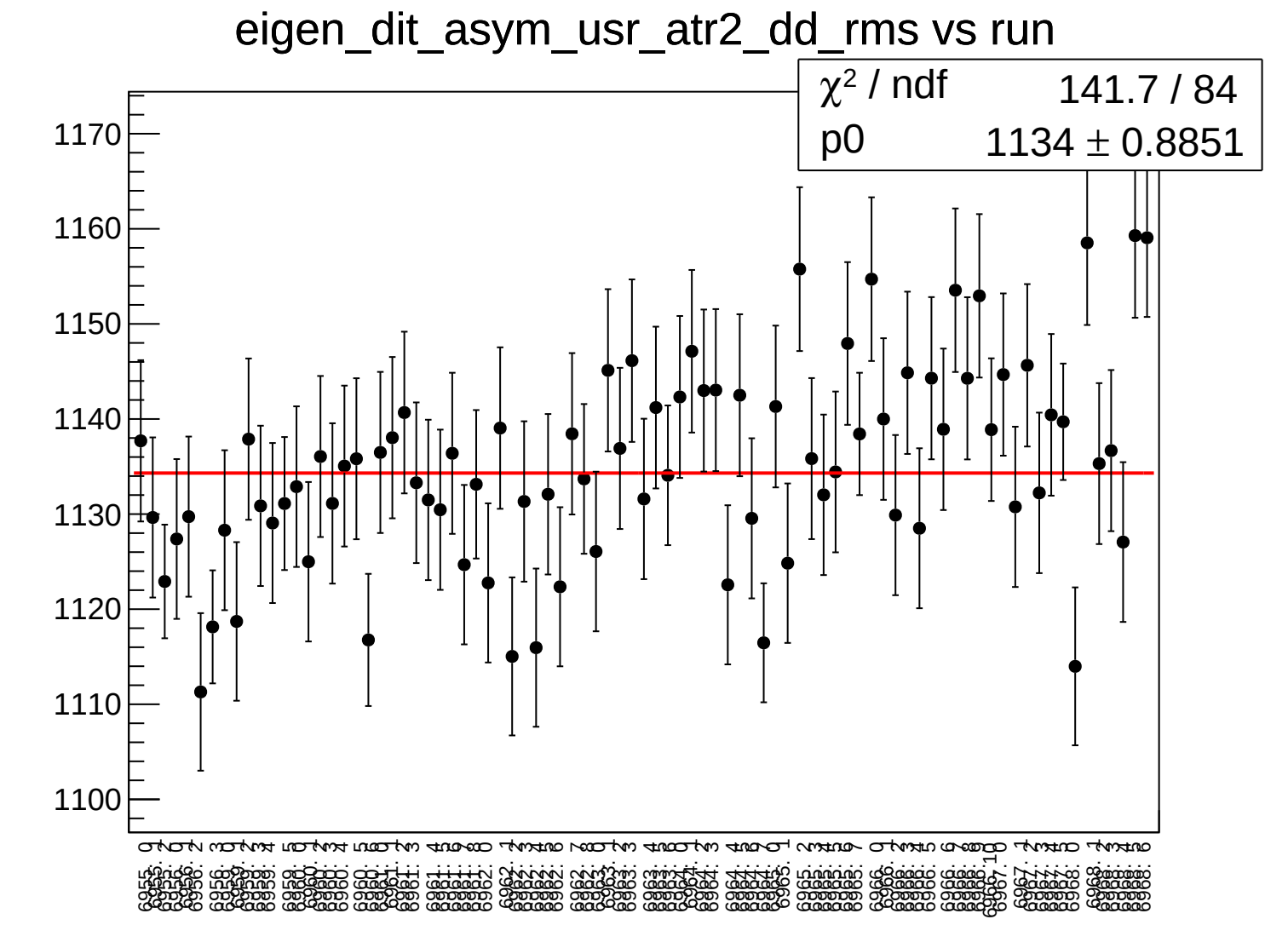

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 100.5 / 84
p0 2498 ± 5383
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean 35.34
Std Dev 62.99
3
2
1
0
−1
−2

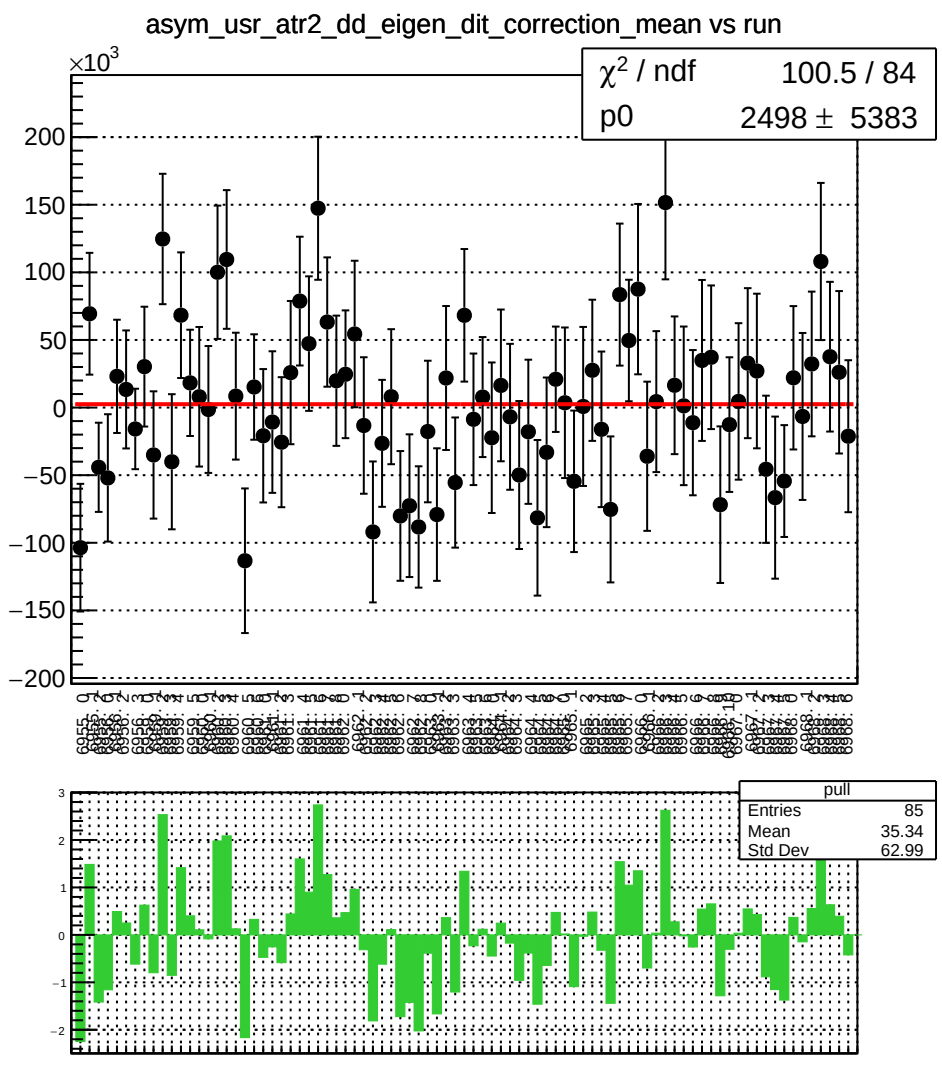

pull1D
Entries 85
Mean 0.01239
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

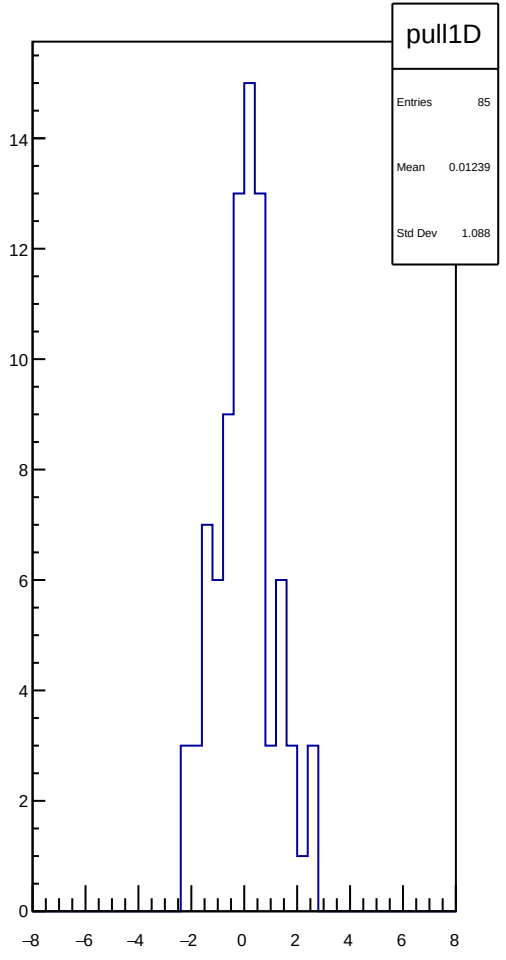

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.408e+04 / 84
p0 4858 ± 3.807
6000
5500
5000
4500
4000

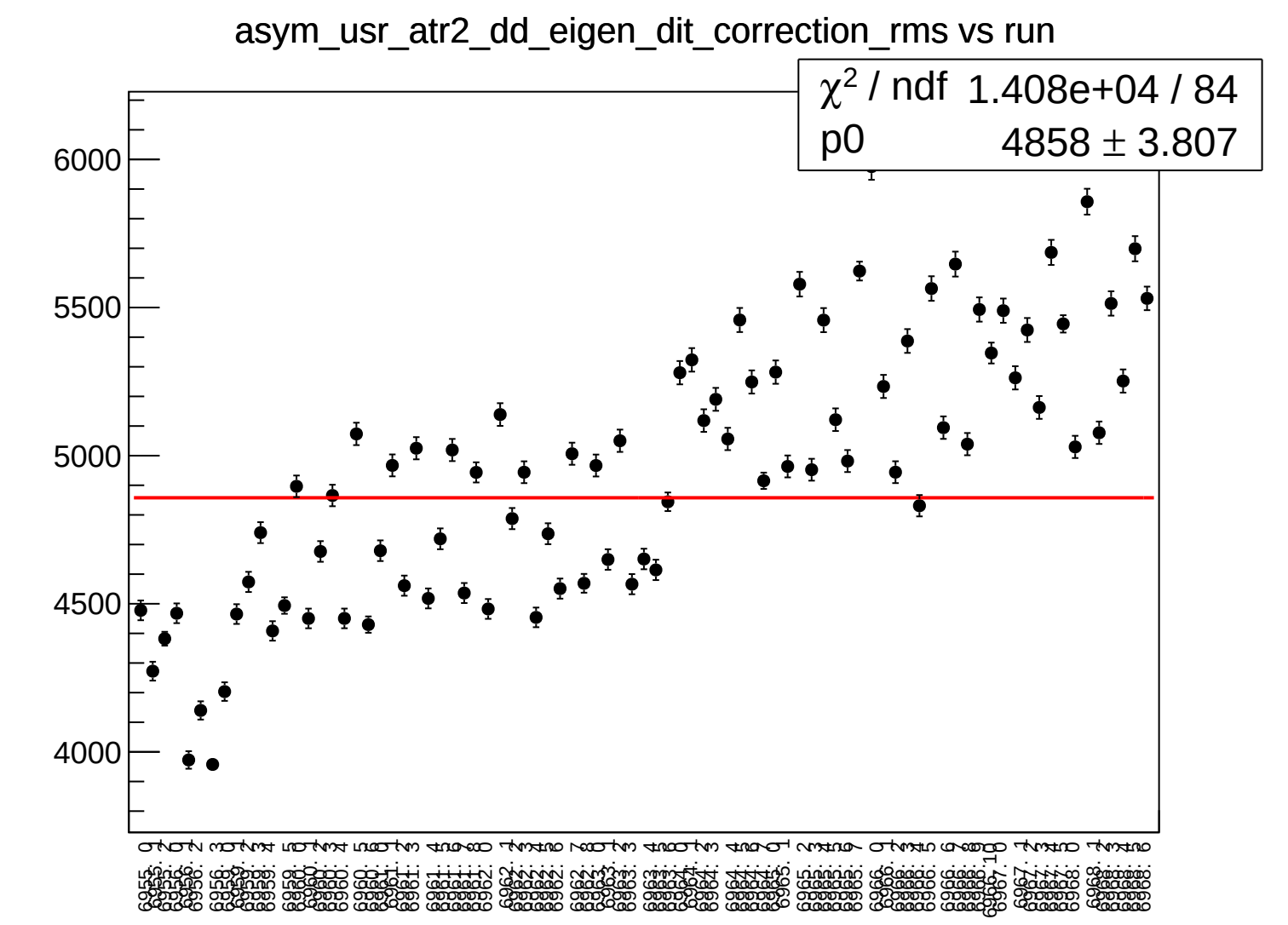

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 80.5 / 84
p0 1161 ± 1252
pull
Entries 85
Mean −1404
Std Dev 0

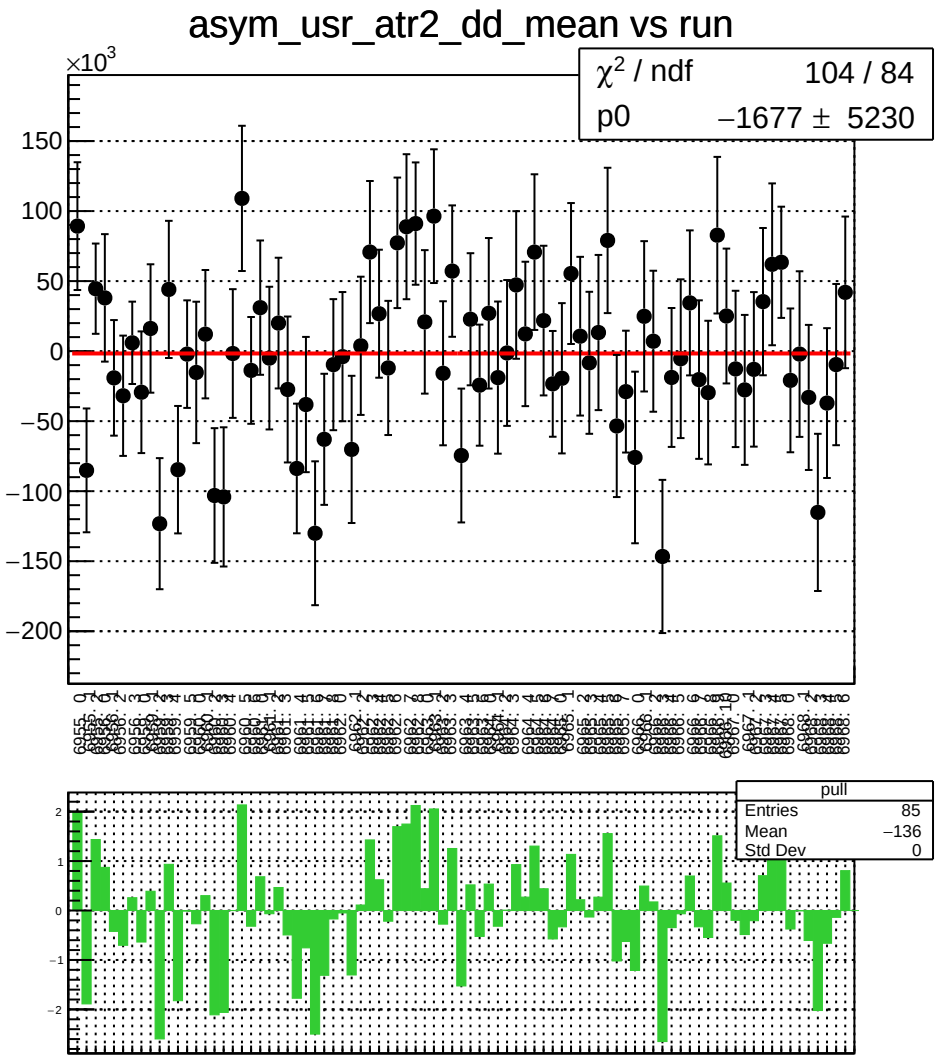

pull1D
Entries 85
Mean −0.004814
Std Dev 0.9732

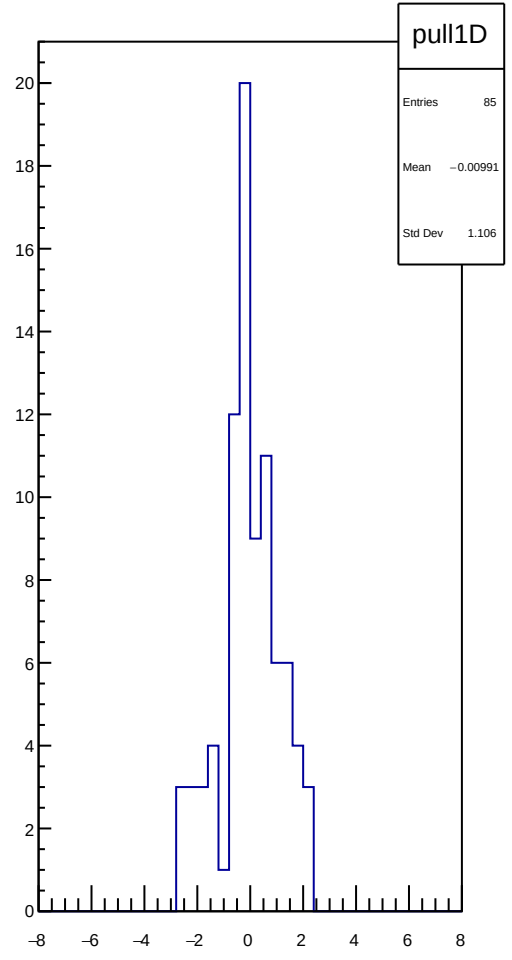

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 141.7 / 84
p0 1134 ± 0.8851
1170
1160
1150
1140
1130
1120
1110
1100

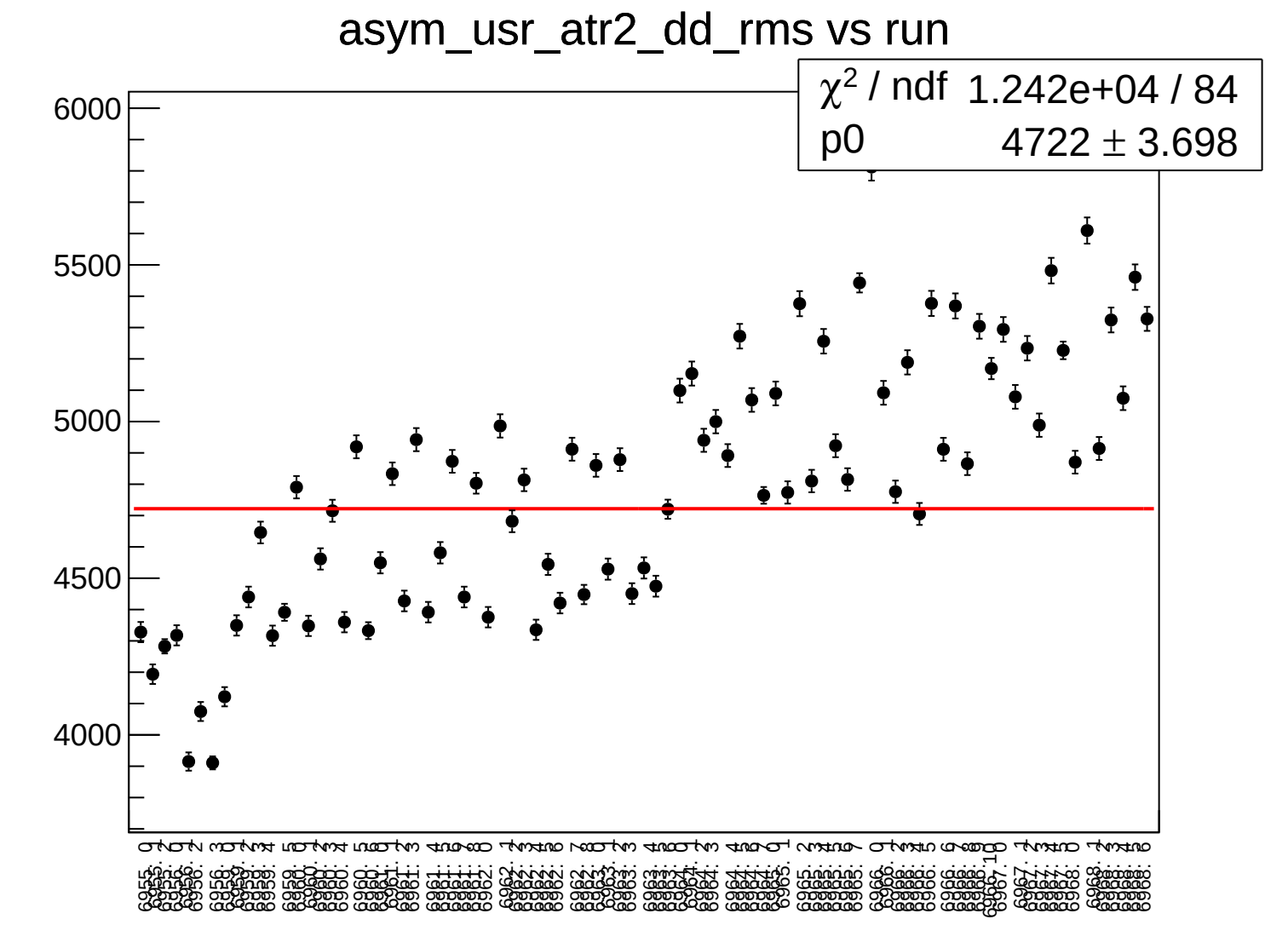

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.5 / 84
p0 2498 ± 5383
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean 35.34
Std Dev 62.99
3
2
1
0
−1
−2

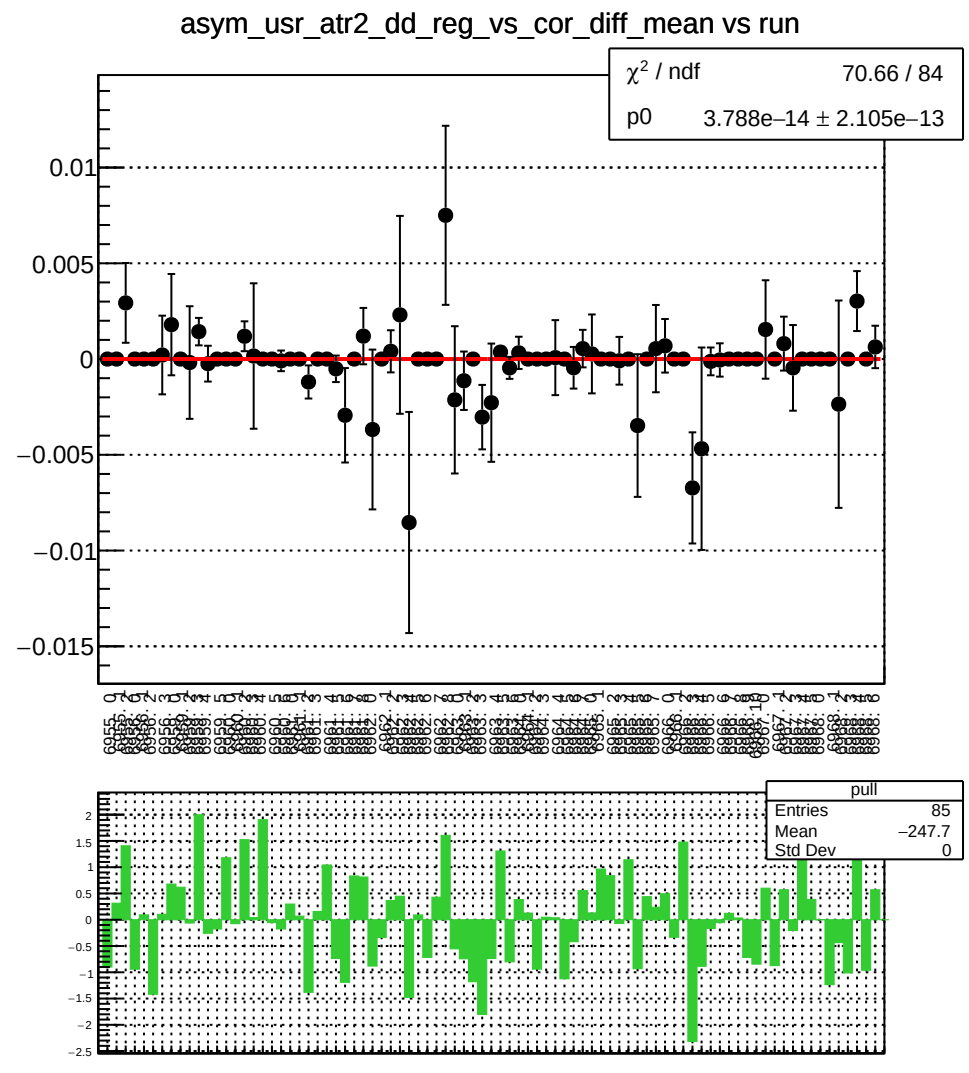

pull1D
Entries 85
Mean 0.01239
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

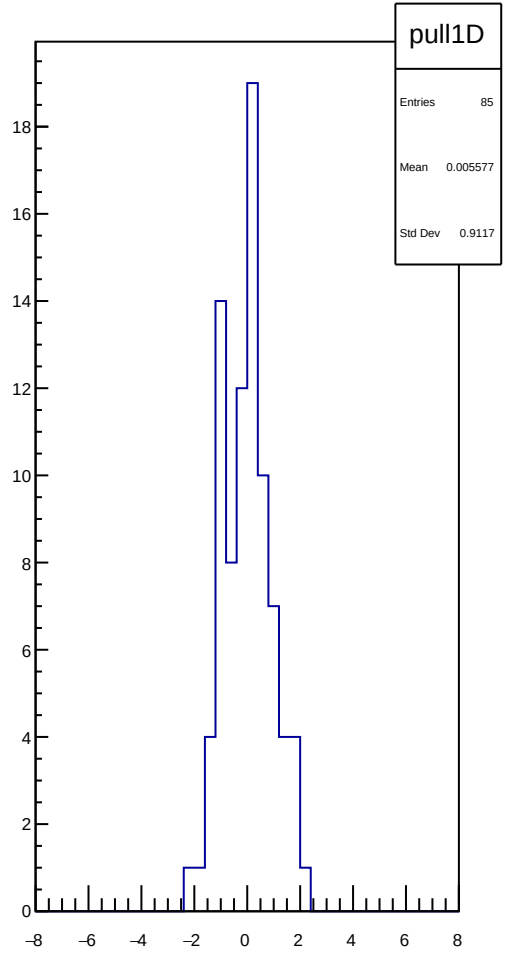

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.408e+04 / 84
p0 4858 ± 3.807
6000
5500
5000
4500
4000

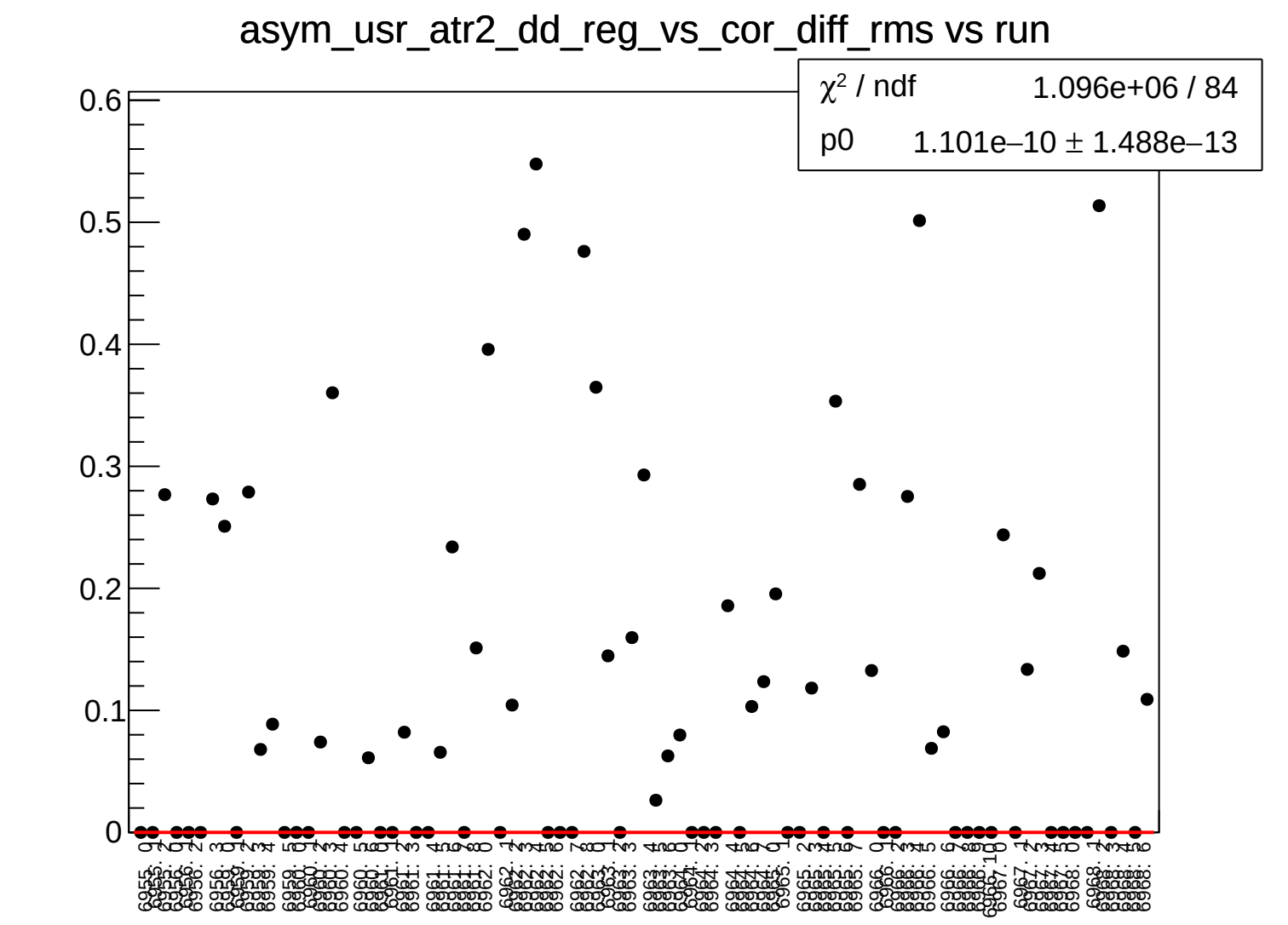

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 104 / 84
p0 −1677 ± 5230
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean −136
Std Dev 0
2
1
0
−1
−2

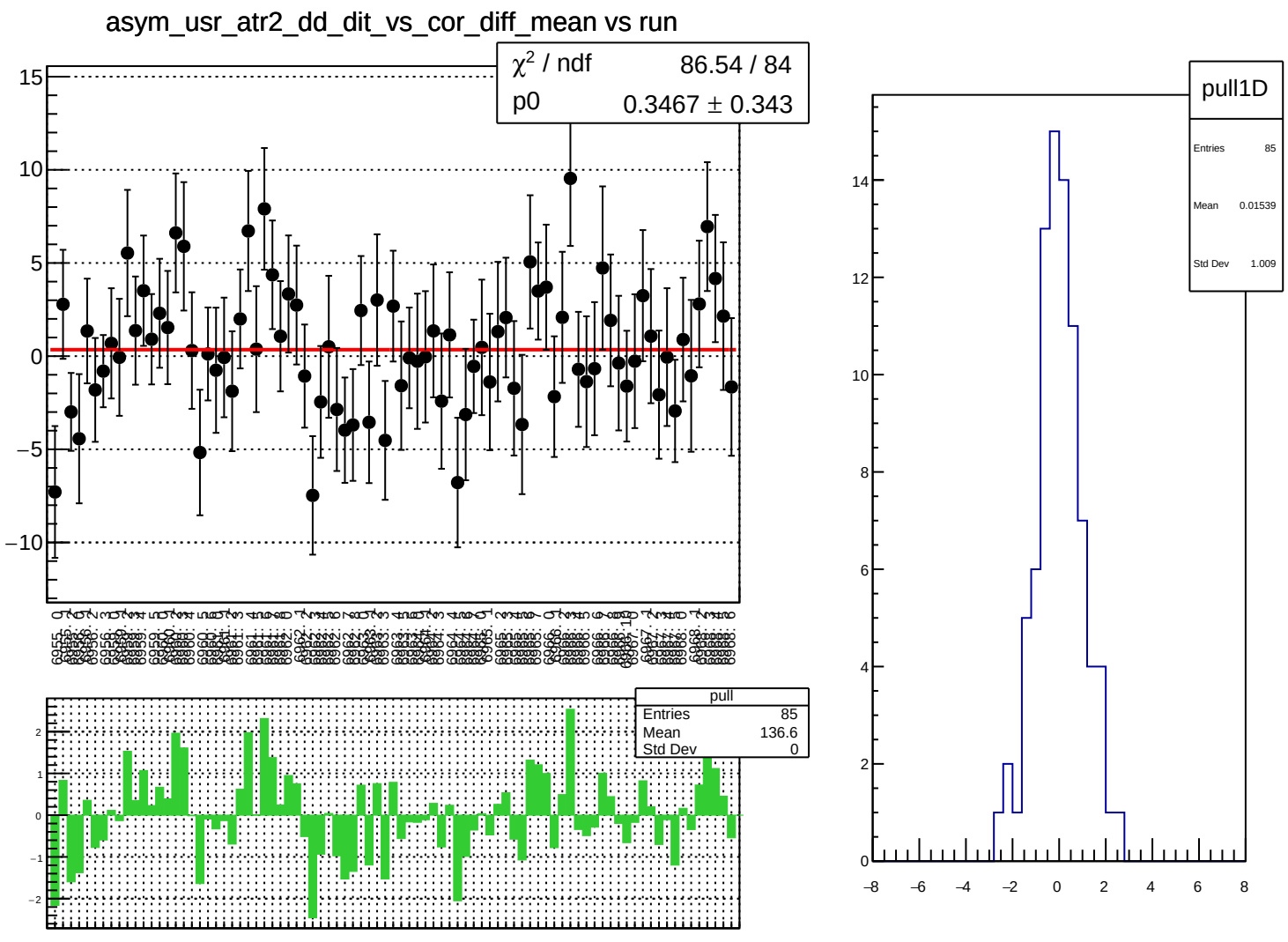

pull1D
Entries 85
Mean −0.00991
Std Dev 1.106
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

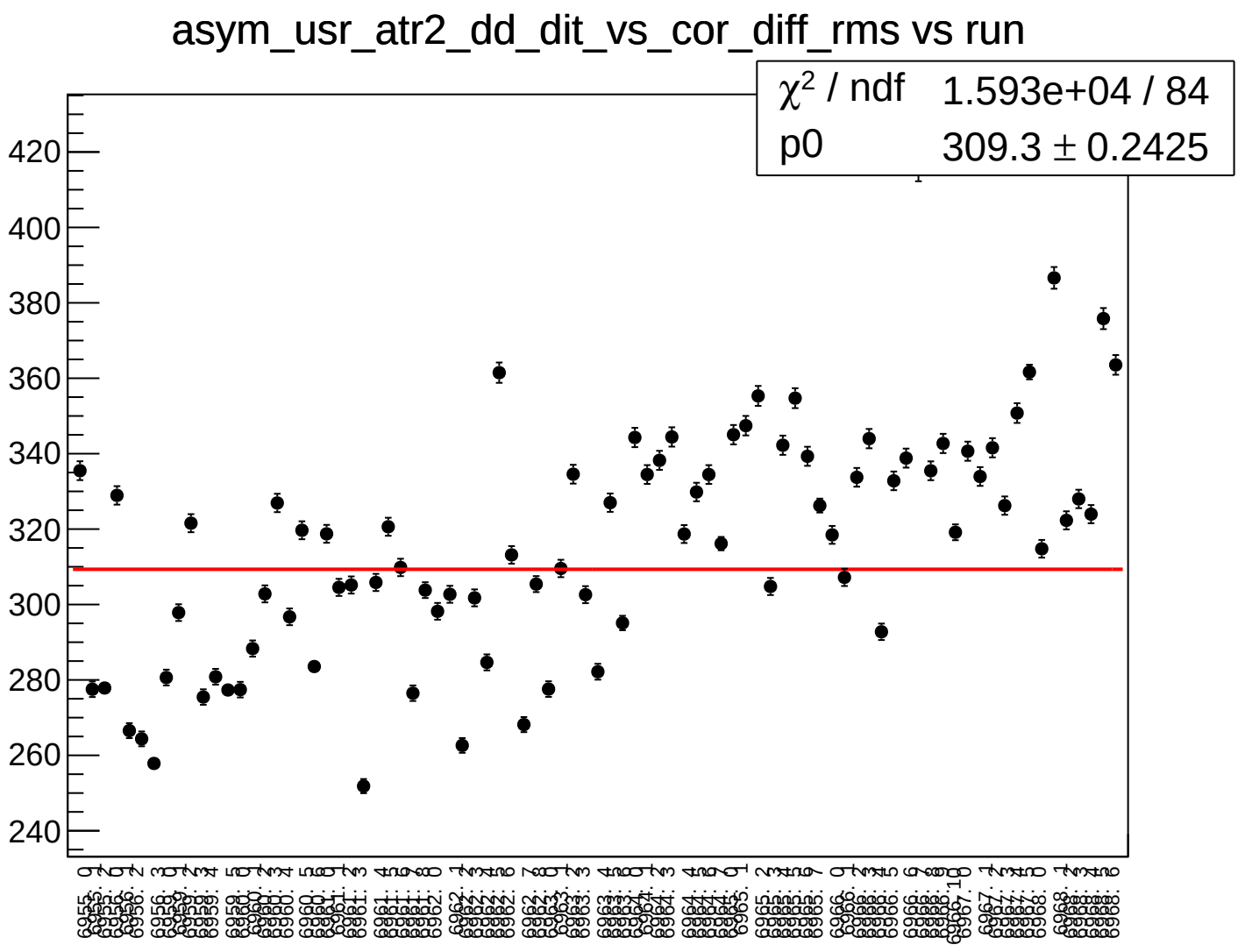

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.242e+04 / 84
p0 4722 ± 3.698
6000
5500
5000
4500
4000

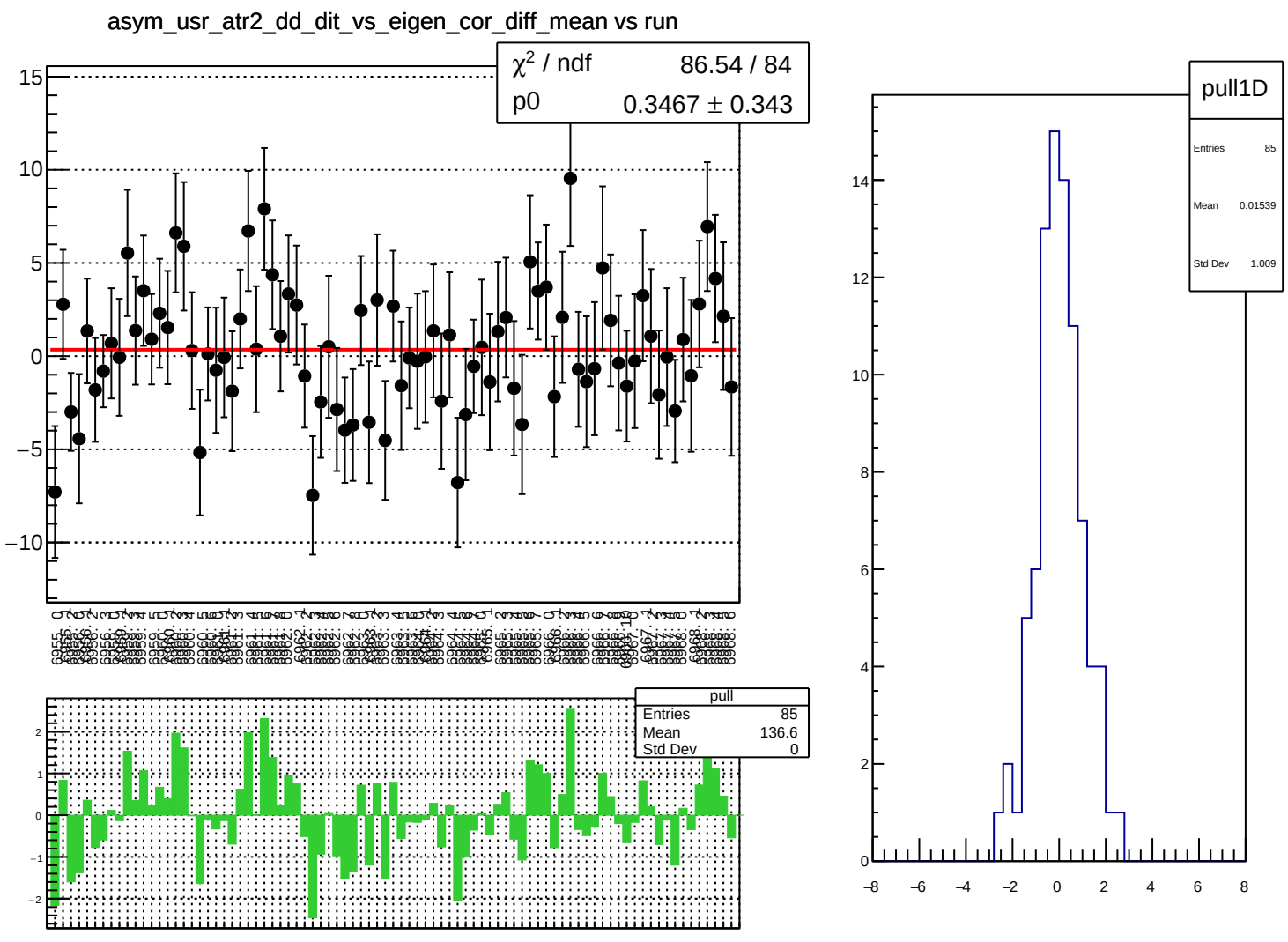

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.66 / 84
p0 3.788e−14 ± 2.105e−13
pull
Entries 85
Mean −247.7
Std Dev 0

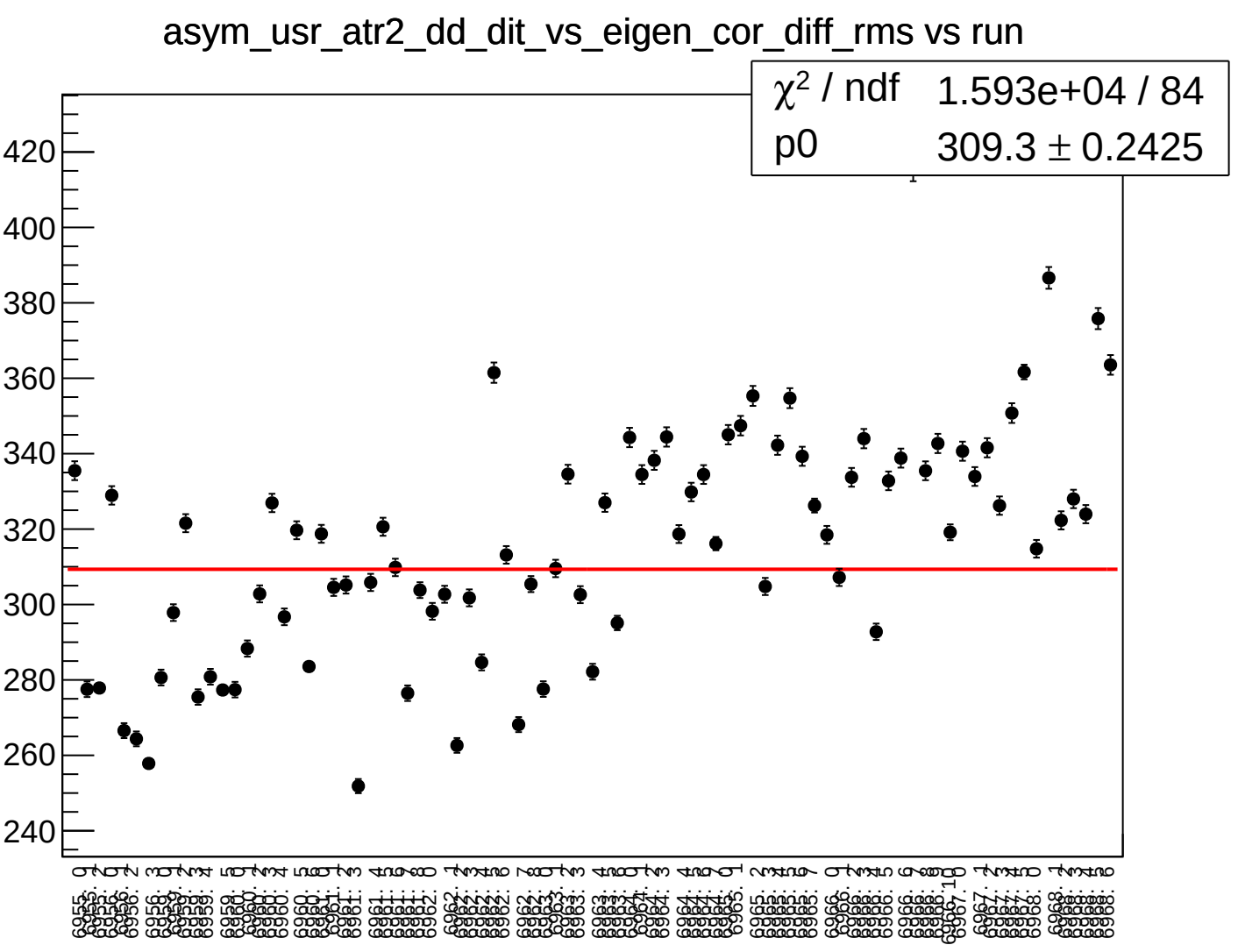

pull1D
Entries 85
Mean 0.005577
Std Dev 0.9117

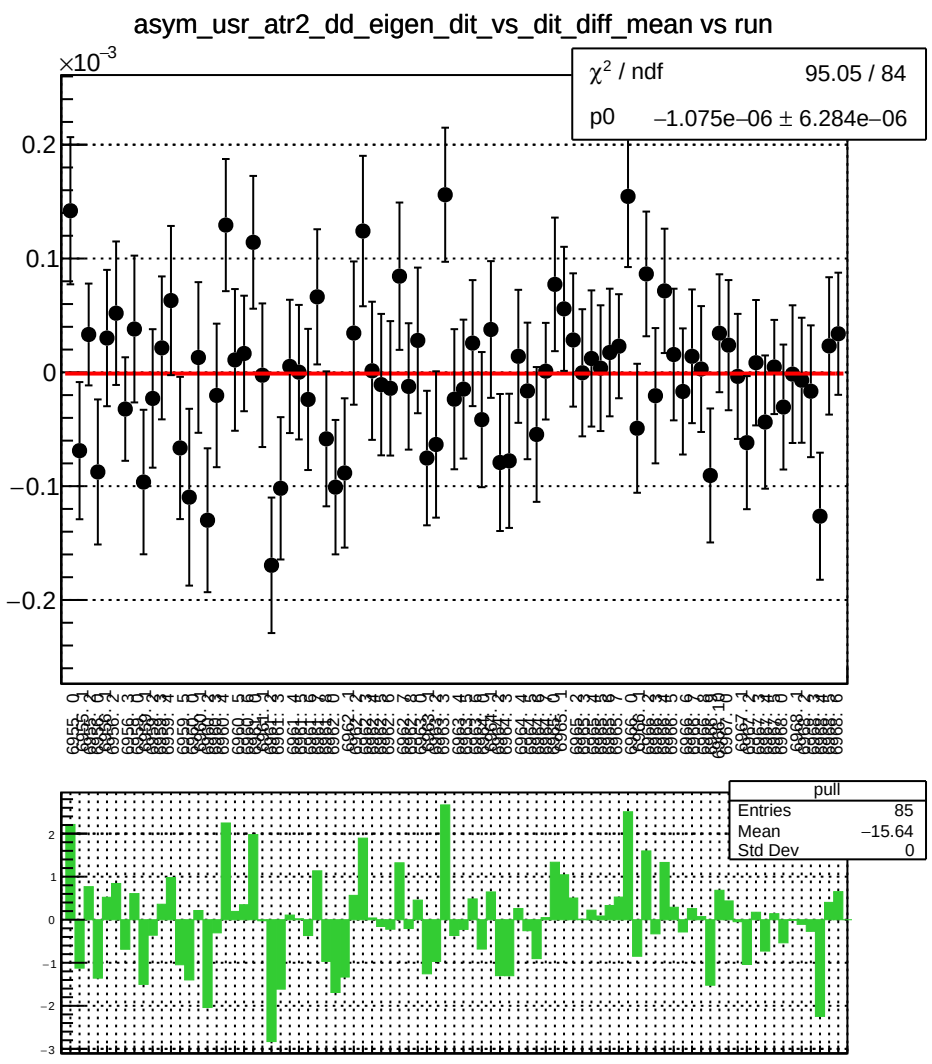

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.096e+06 / 84
p0 1.101e−10 ± 1.488e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

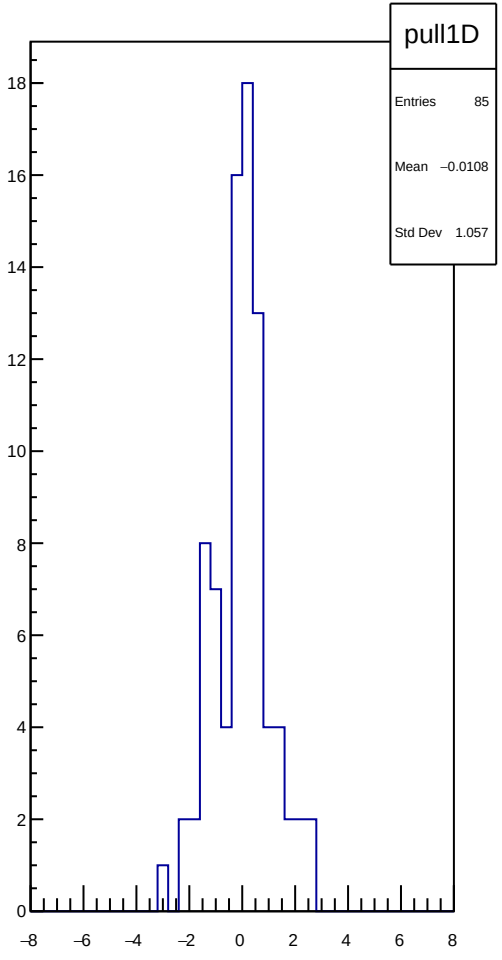

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.54 / 84
p0 0.3467 ± 0.343
pull
Entries 85
Mean 136.6
Std Dev 0
pull1D
Entries 85
Mean 0.01539
Std Dev 1.009

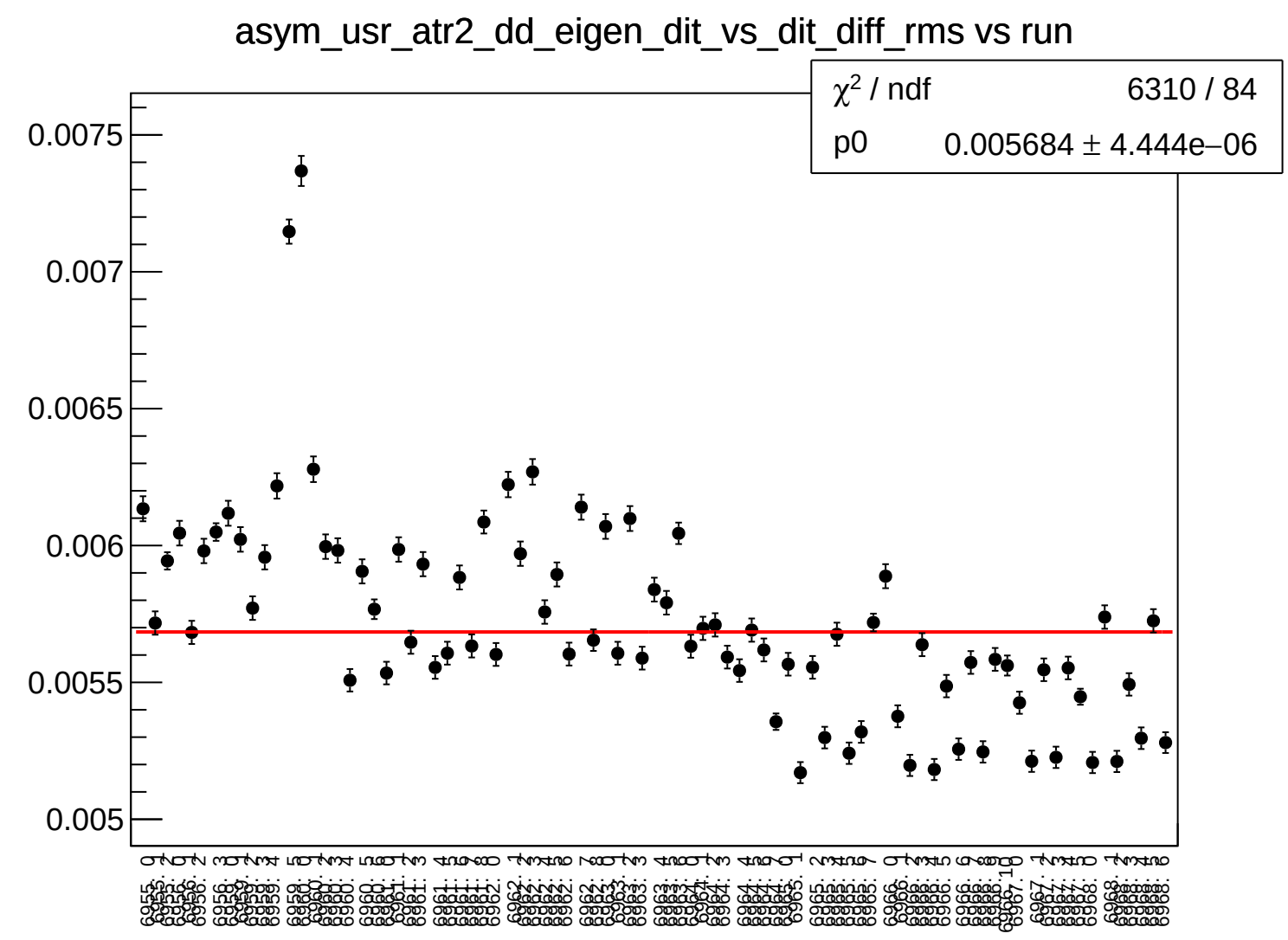

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.593e+04 / 84
p0 309.3 ± 0.2425
420
400
380
360
340
320
300
280
260
240

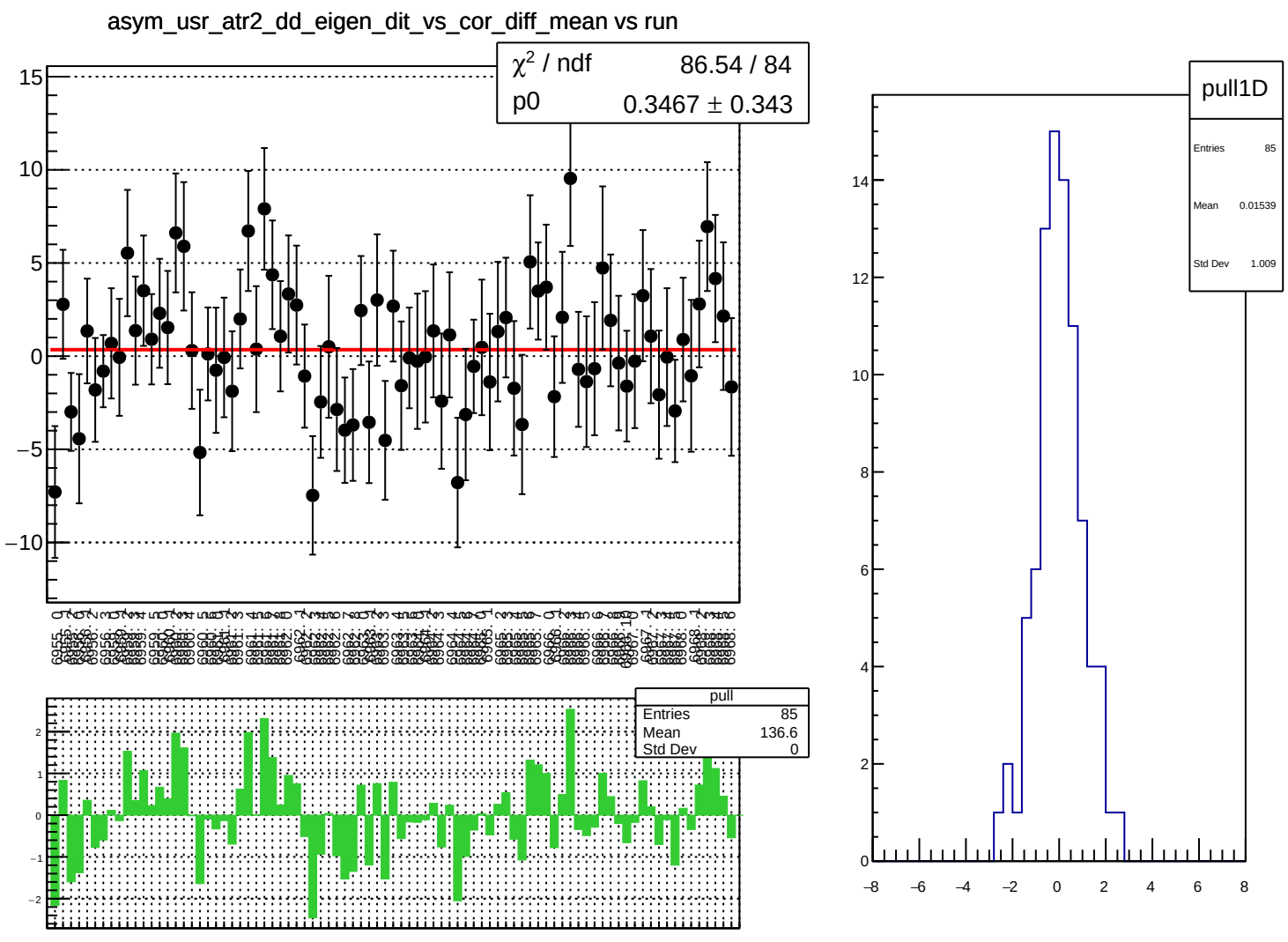

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.54 / 84
p0 0.3467 ± 0.343
pull
Entries 85
Mean 136.6
Std Dev 0
pull1D
Entries 85
Mean 0.01539
Std Dev 1.009

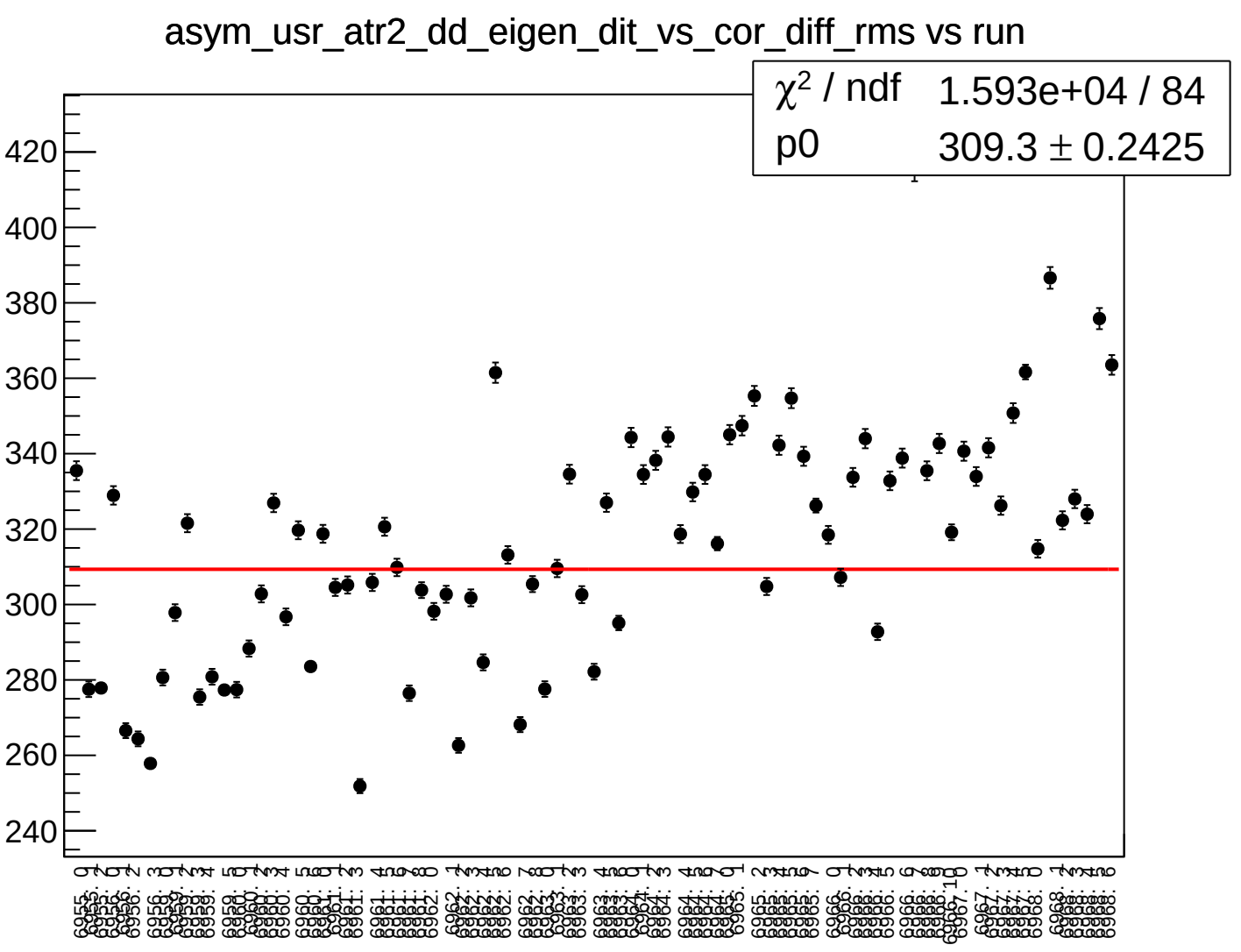

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.593e+04 / 84
p0 309.3 ± 0.2425
420
400
380
360
340
320
300
280
260
240

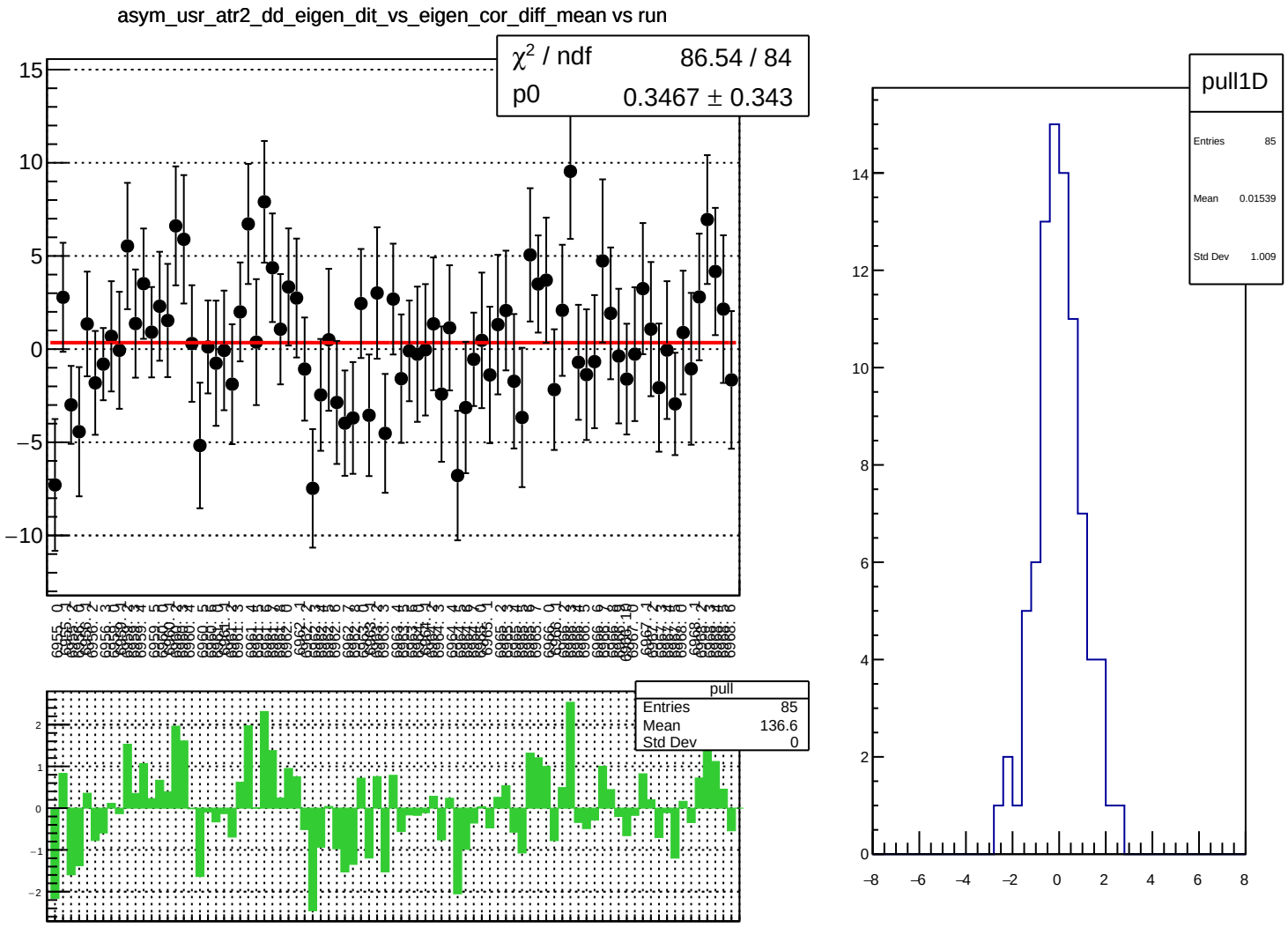

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.05 / 84
p0 −1.075e−06 ± 6.284e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 85
Mean −15.64
Std Dev 0
2
1
0
−1
−2
−3

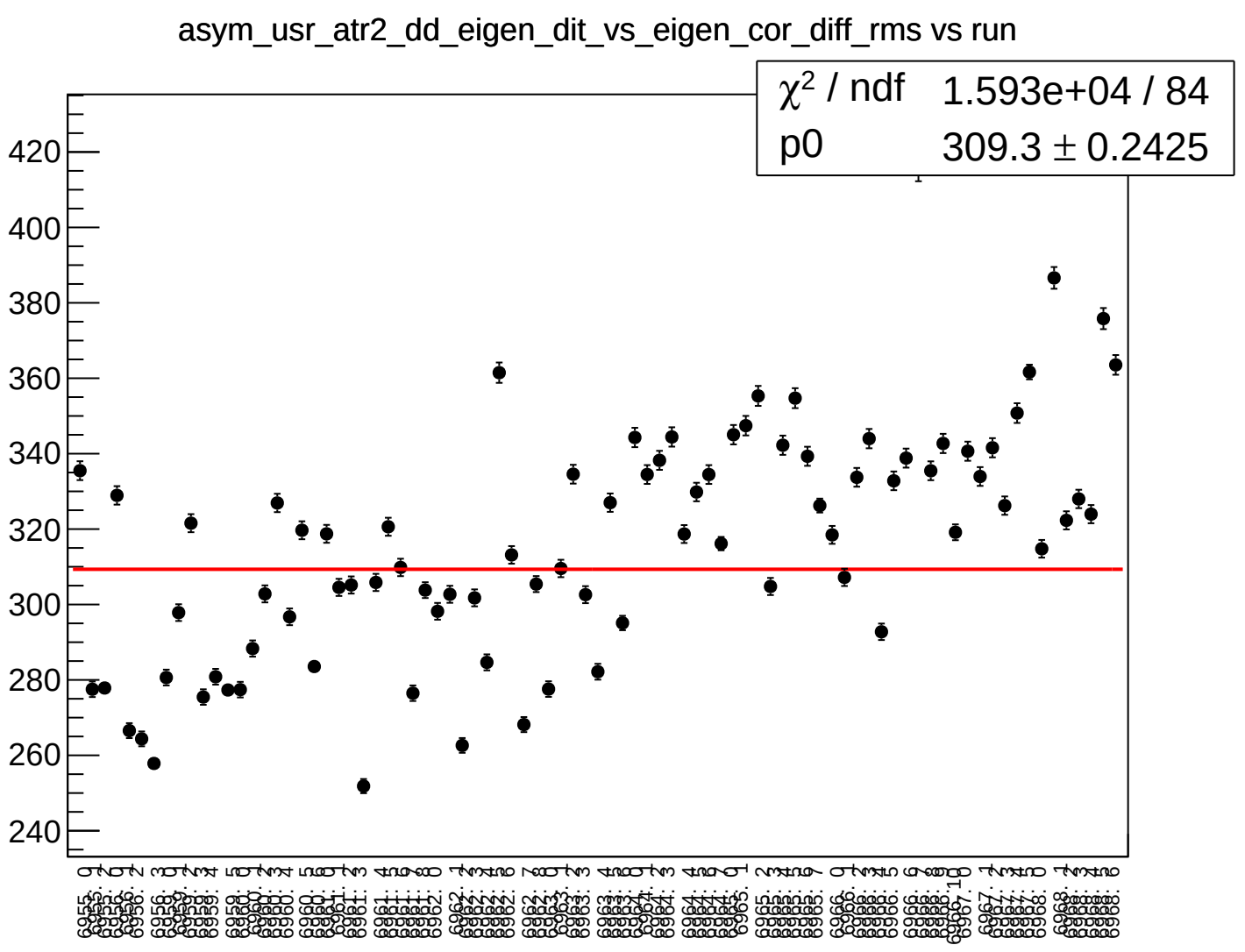

pull1D
Entries 85
Mean −0.0108
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

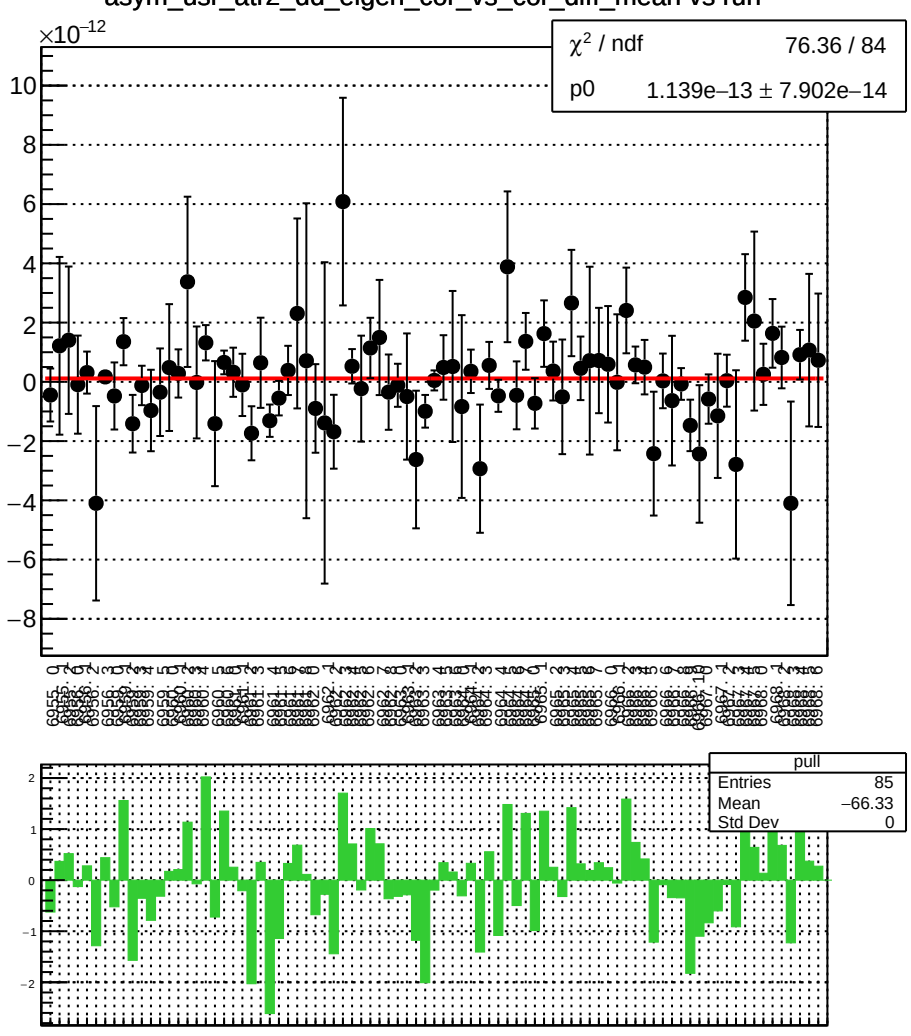

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6310 / 84
p0 0.005684 ± 4.444e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005

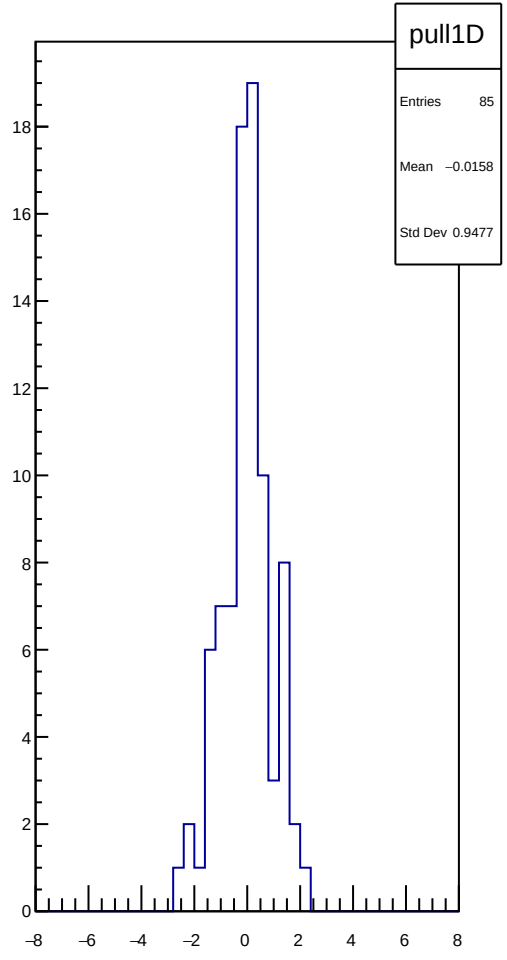

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.54 / 84
p0 0.3467 ± 0.343
pull
Entries 85
Mean 136.6
Std Dev 0
pull1D
Entries 85
Mean 0.01539
Std Dev 1.009

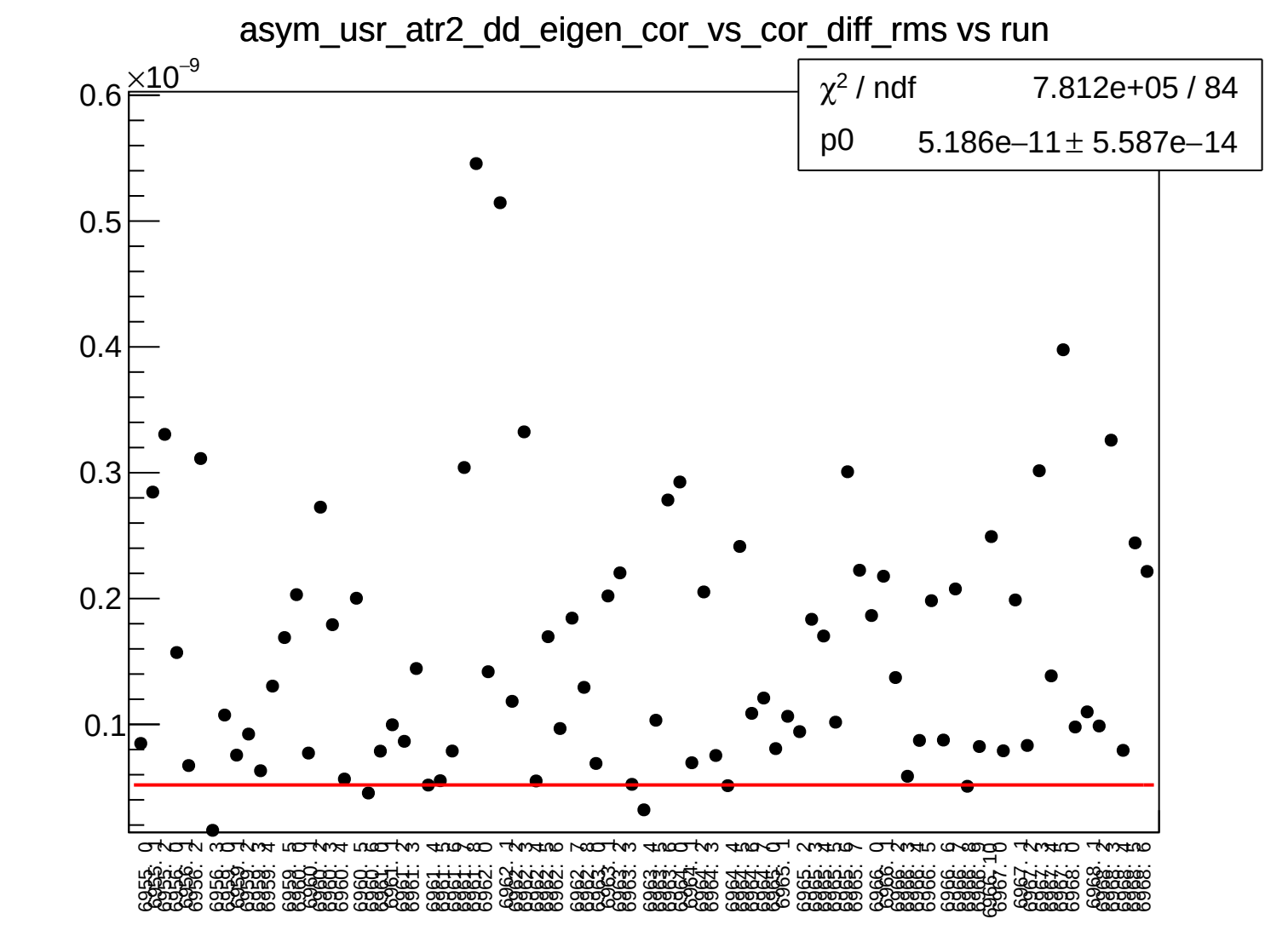

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.593e+04 / 84
p0 309.3 ± 0.2425
420
400
380
360
340
320
300
280
260
240

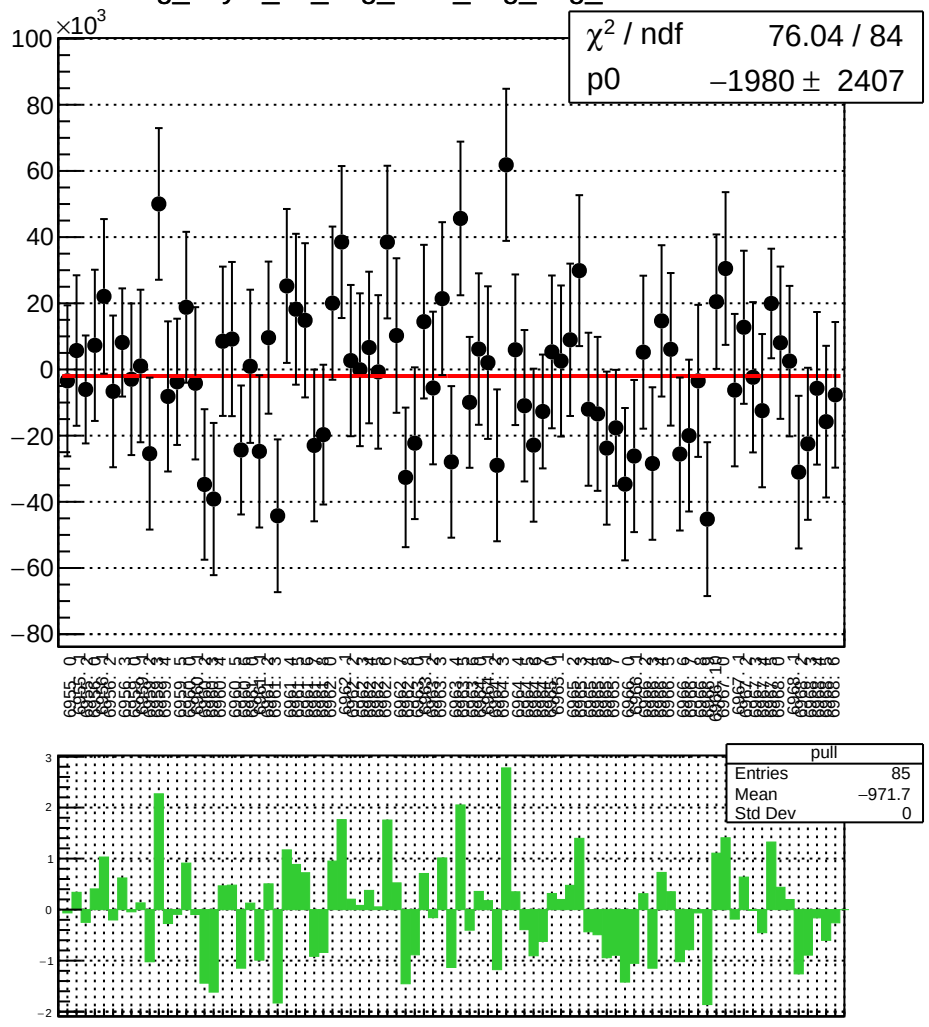

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.54 / 84
p0 0.3467 ± 0.343
pull
Entries 85
Mean 136.6
Std Dev 0
pull1D
Entries 85
Mean 0.01539
Std Dev 1.009

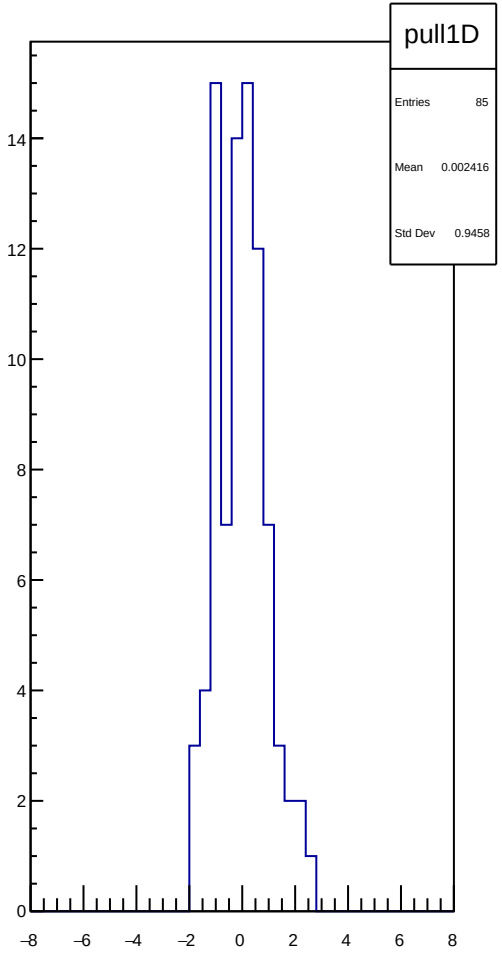

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.593e+04 / 84
p0 309.3 ± 0.2425
420
400
380
360
340
320
300
280
260
240

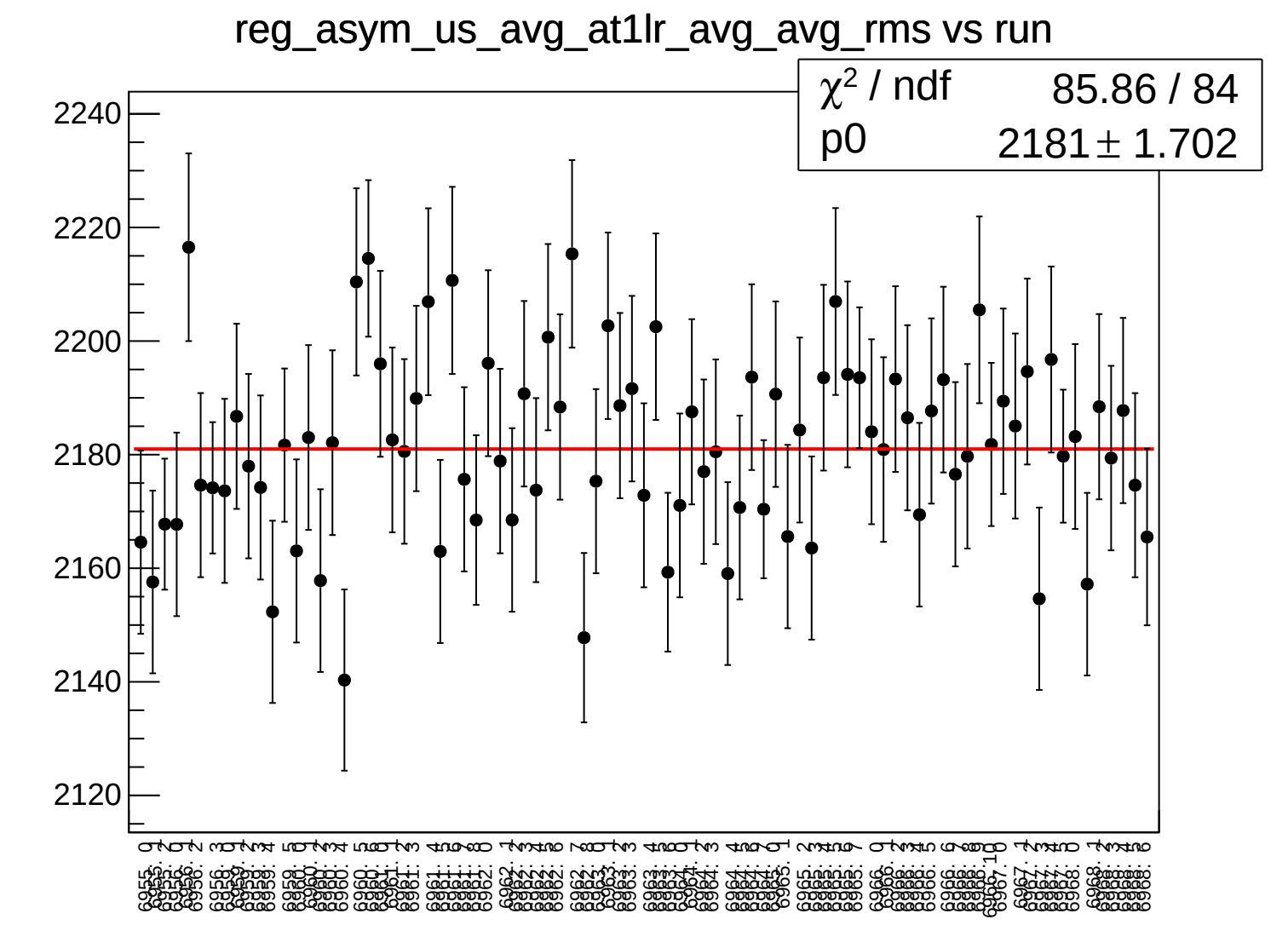

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.36 / 84
p0 1.139e−13 ± 7.902e−14
pull
Entries 85
Mean −66.33
Std Dev 0

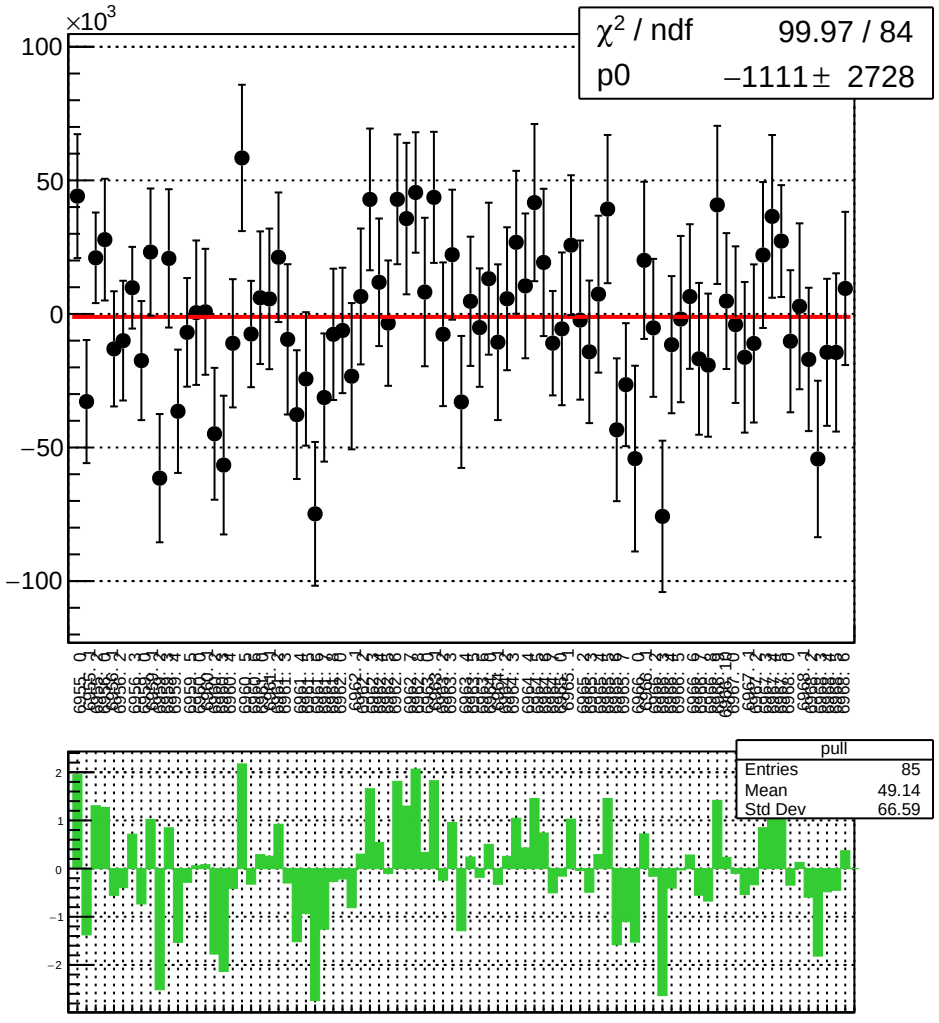

pull1D
Entries 85
Mean −0.0158
Std Dev 0.9477

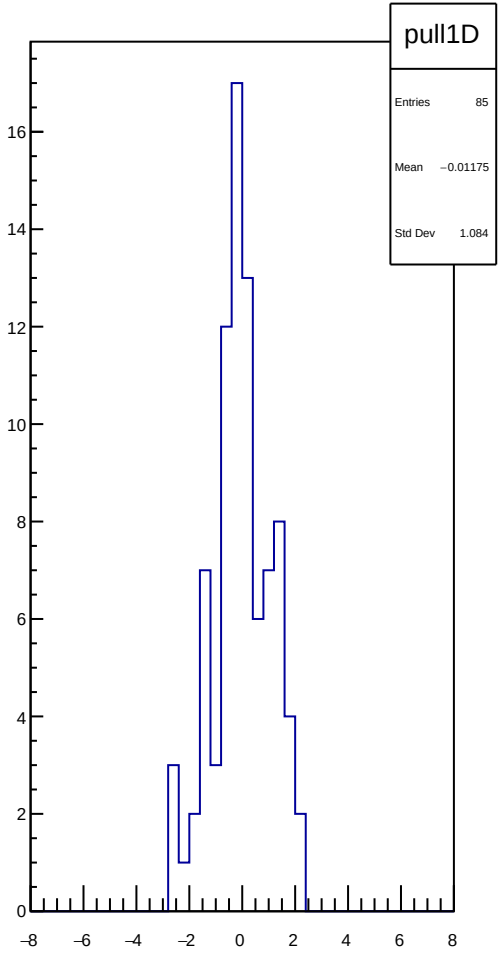

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 7.812e+05 / 84
p0 5.186e−11 ± 5.587e−14

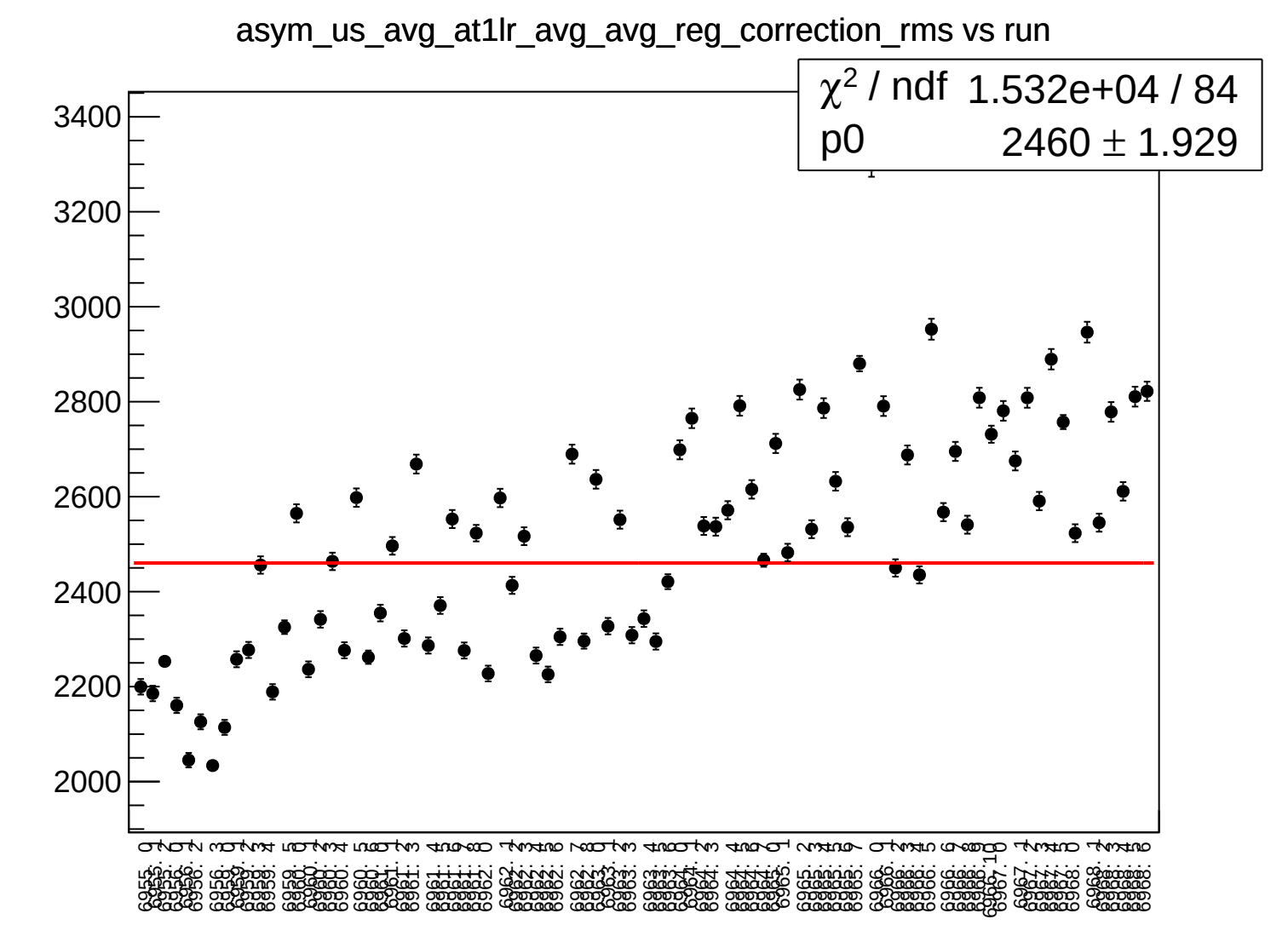

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76.04 / 84
p0 −1980 ± 2407
×10³
pull
Entries 85
Mean −971.7
Std Dev 0

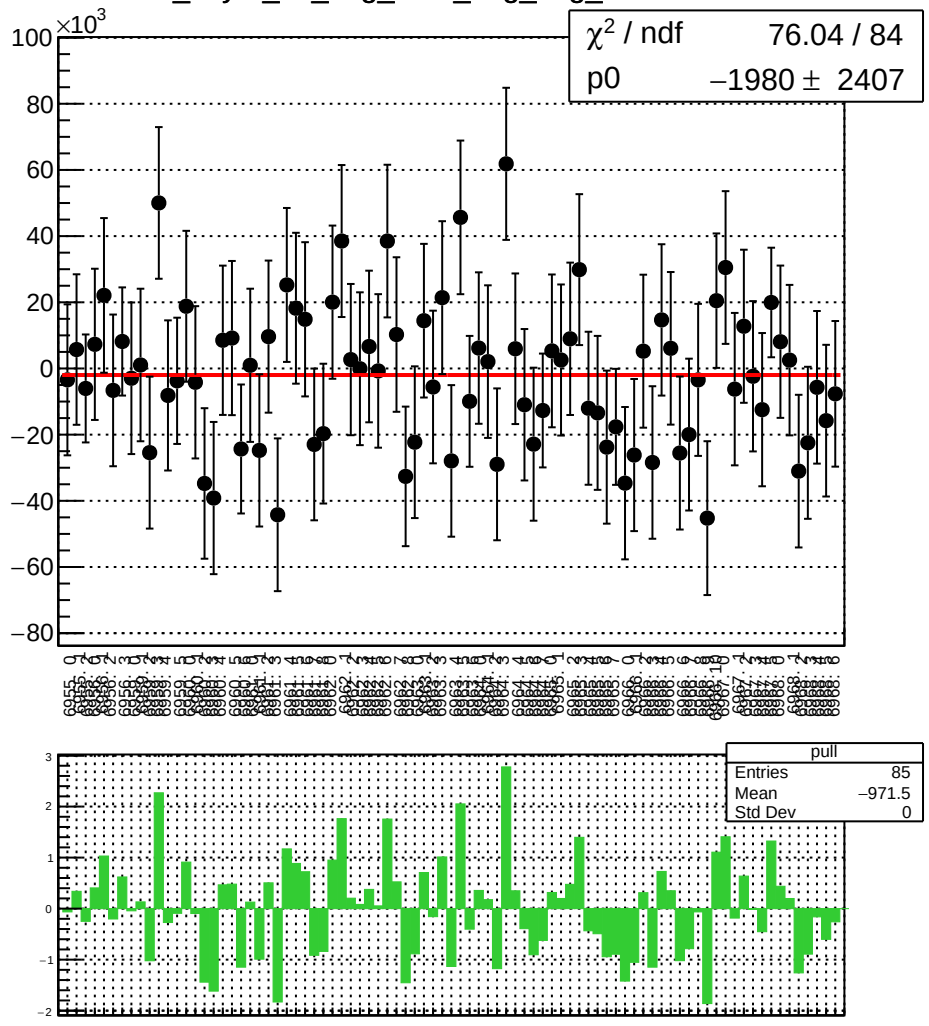

pull1D
Entries 85
Mean 0.002416
Std Dev 0.9458

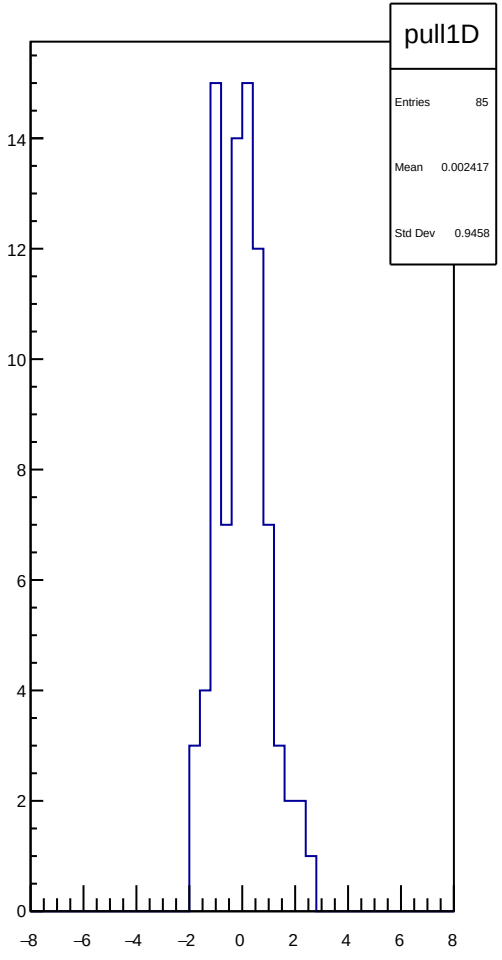

reg_asym_us_avg_at1lr_avg_avg_rms vs run
$\chi^2$ / ndf 85.86 / 84
p0 2181 ± 1.702
2240
2220
2200
2180
2160
2140
2120

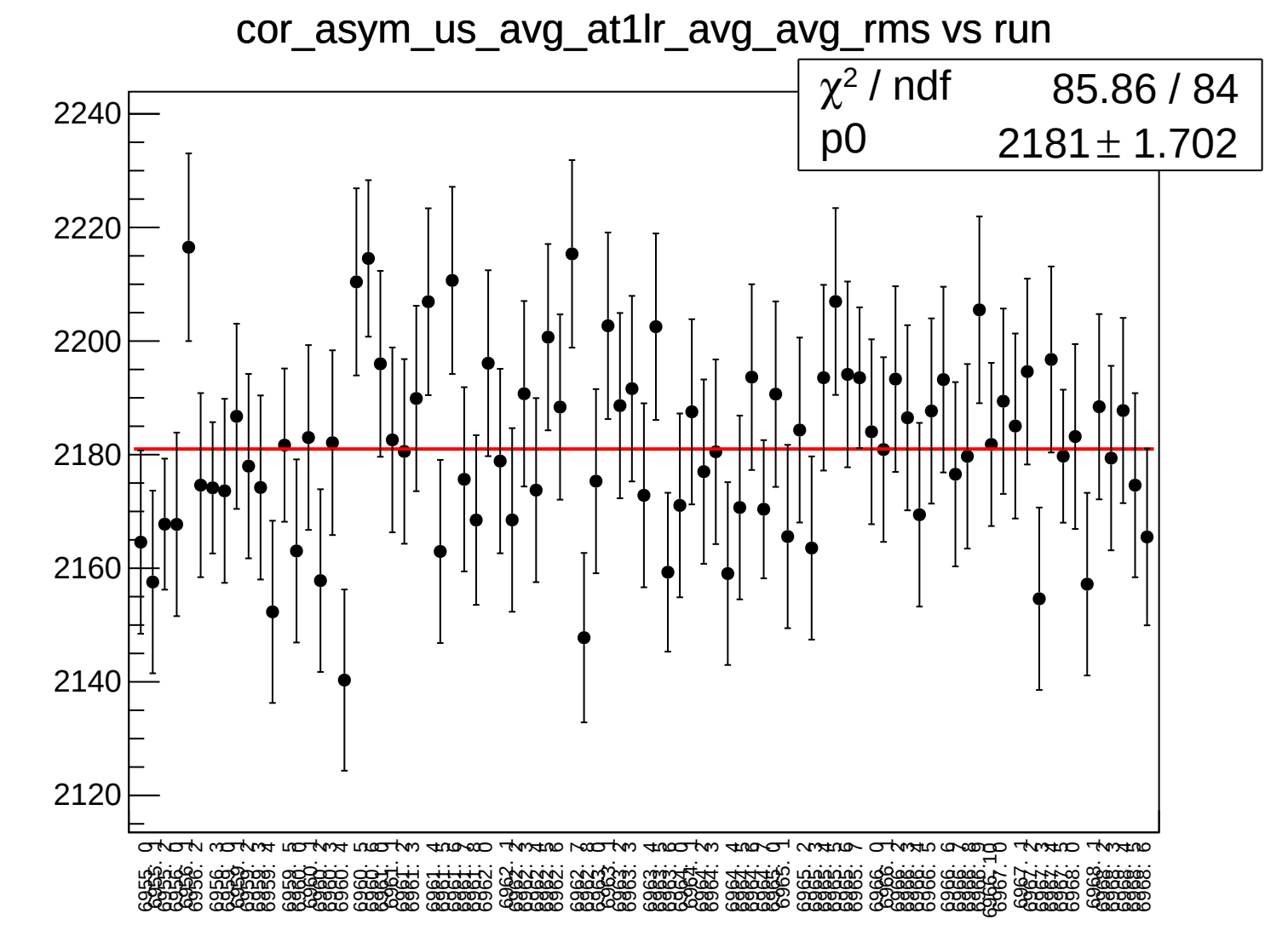

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 99.97 / 84
p0 −1111 ± 2728
pull
Entries 85
Mean 49.14
Std Dev 66.59

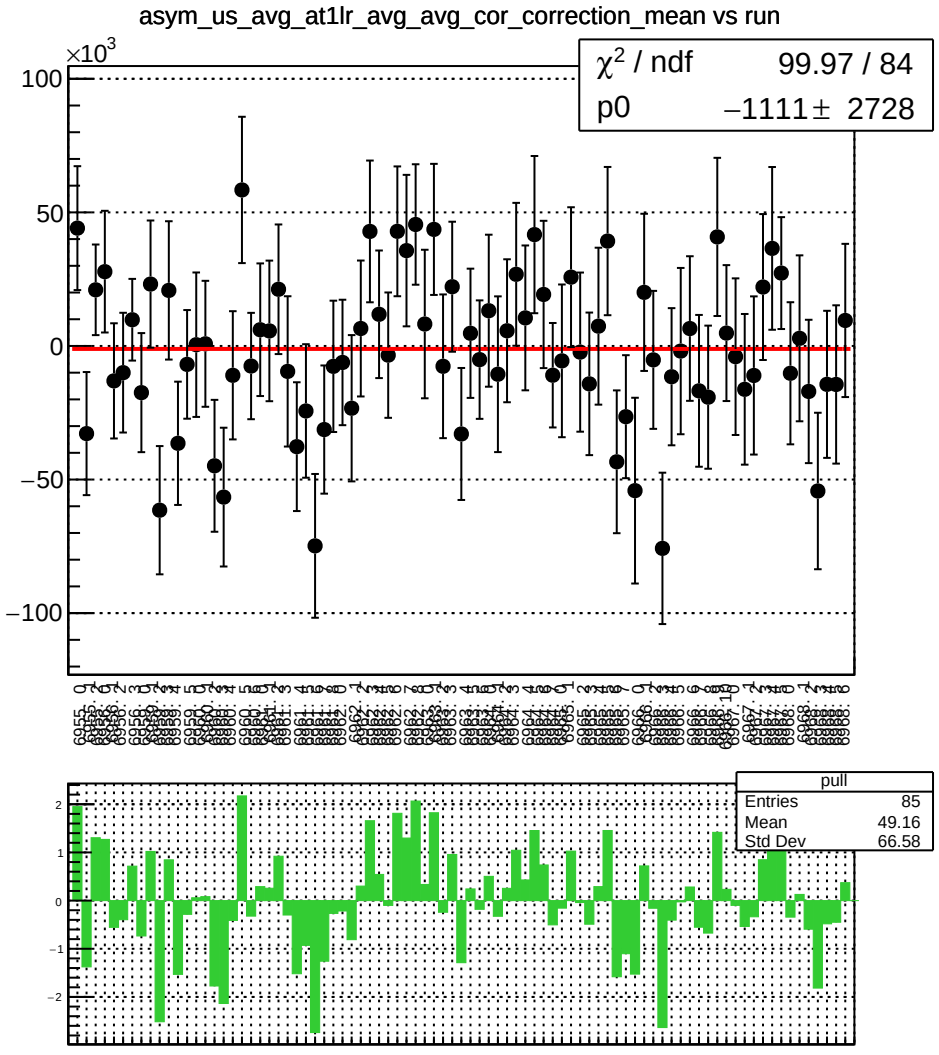

pull1D
Entries 85
Mean −0.01175
Std Dev 1.084

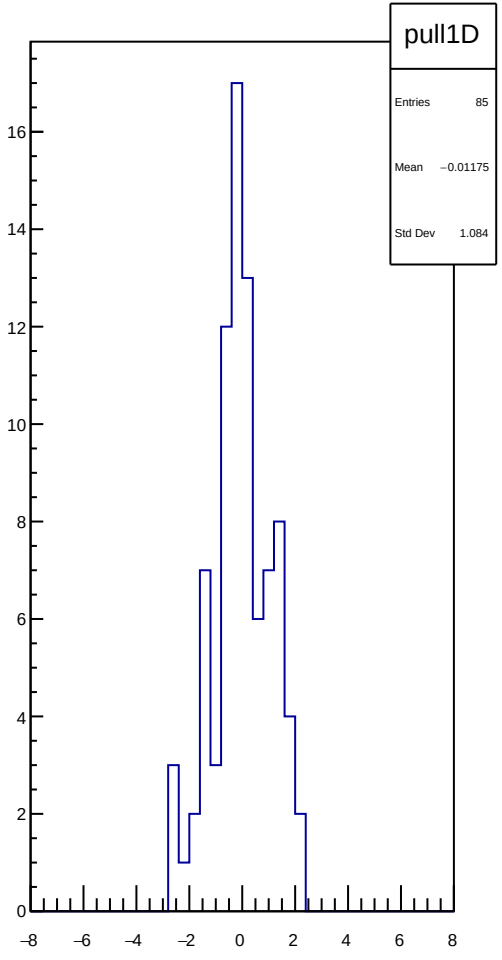

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.532e+04 / 84
p0 2460 ± 1.929
3400
3200
3000
2800
2600
2400
2200
2000

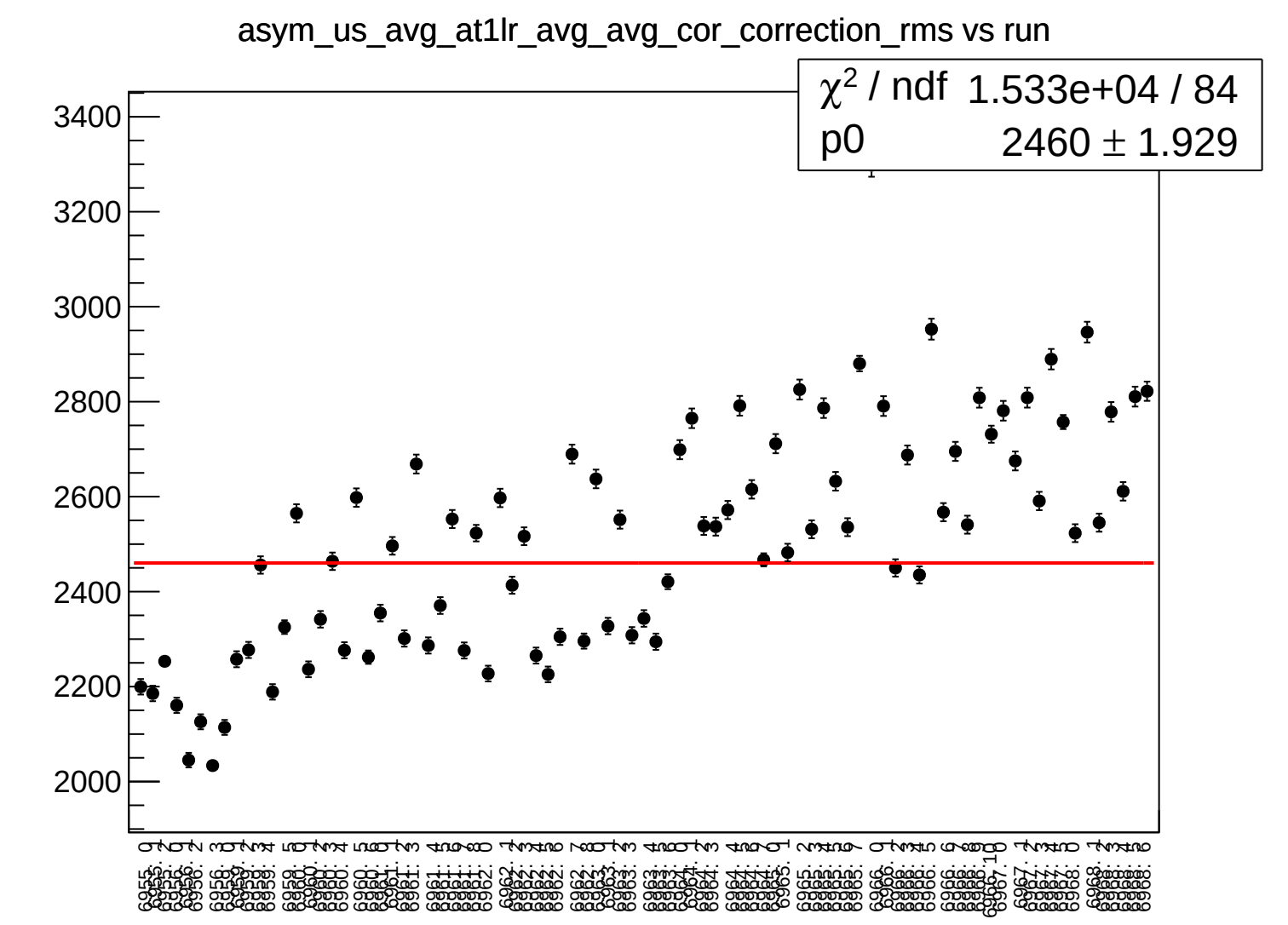

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76.04 / 84
p0 −1980 ± 2407
×10³
pull
Entries 85
Mean −971.5
Std Dev 0

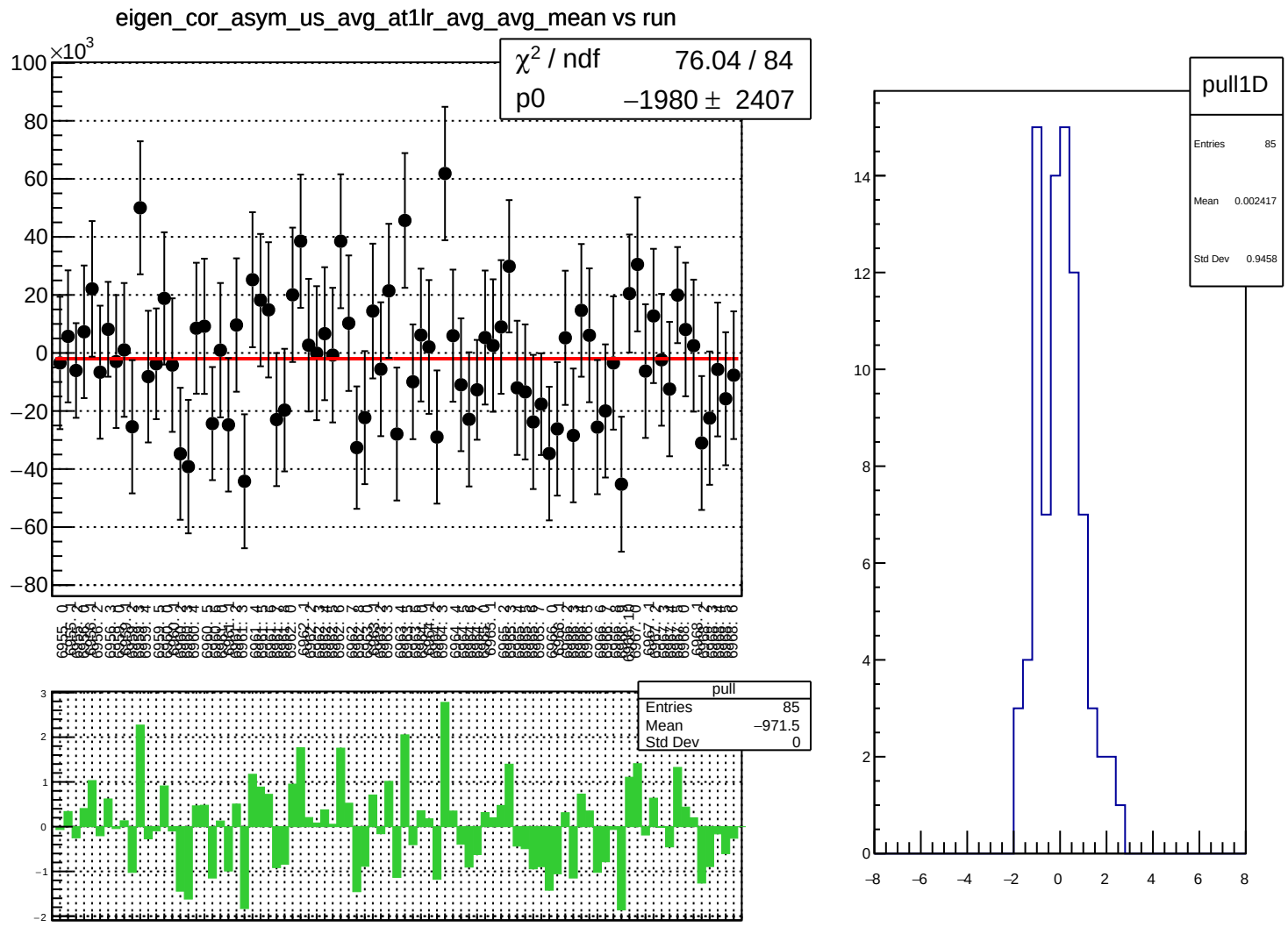

pull1D
Entries 85
Mean 0.002417
Std Dev 0.9458

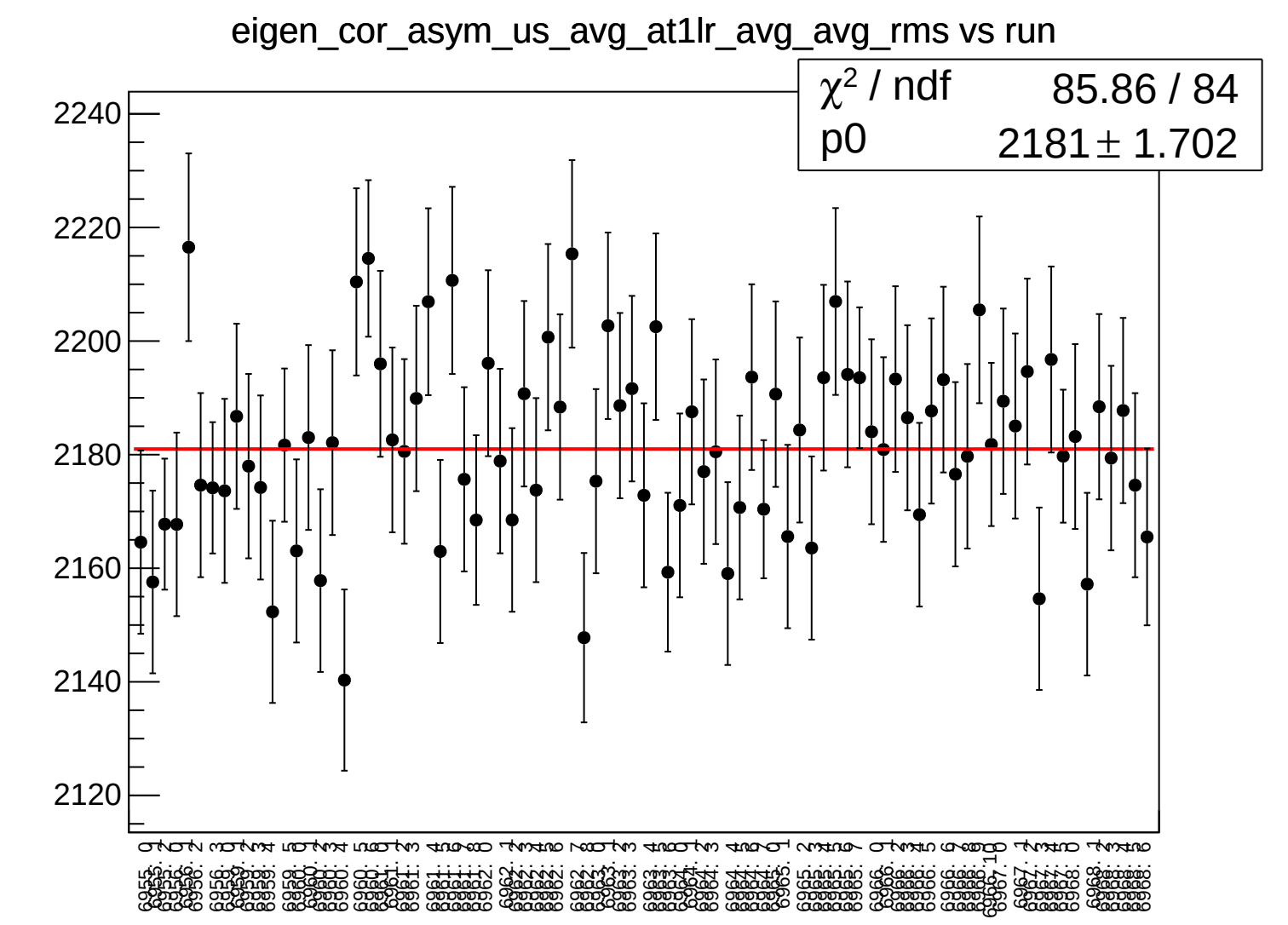

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 85.86 / 84
p0 2181 ± 1.702
2240
2220
2200
2180
2160
2140
2120

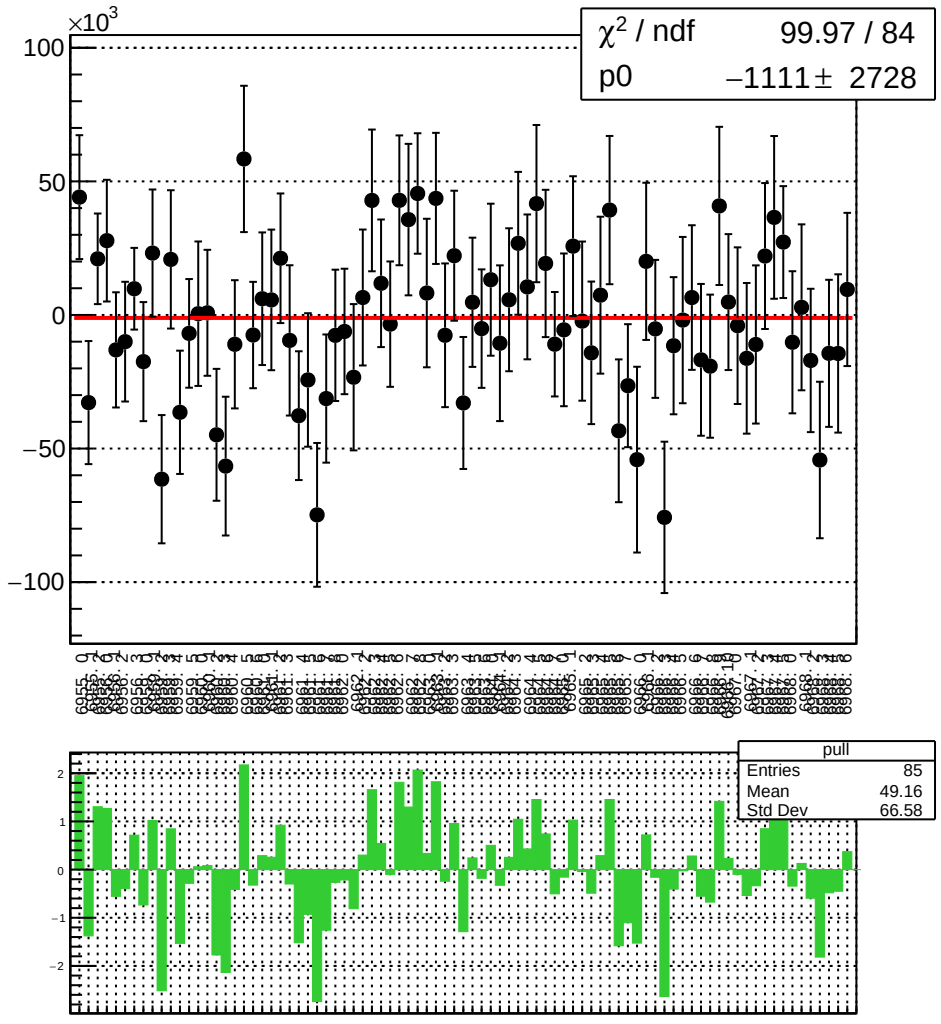

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 99.97 / 84
p0 −1111 ± 2728
pull
Entries 85
Mean 49.16
Std Dev 66.58

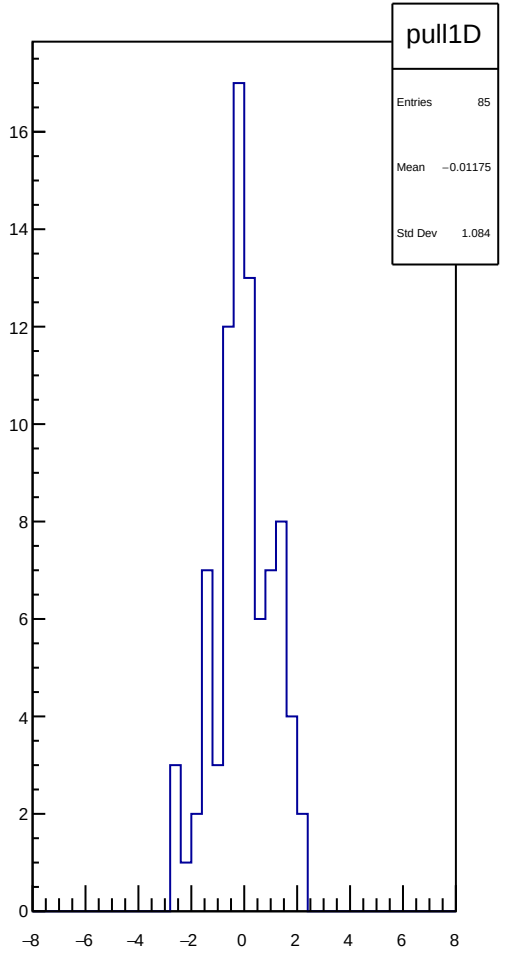

pull1D
Entries 85
Mean −0.01175
Std Dev 1.084

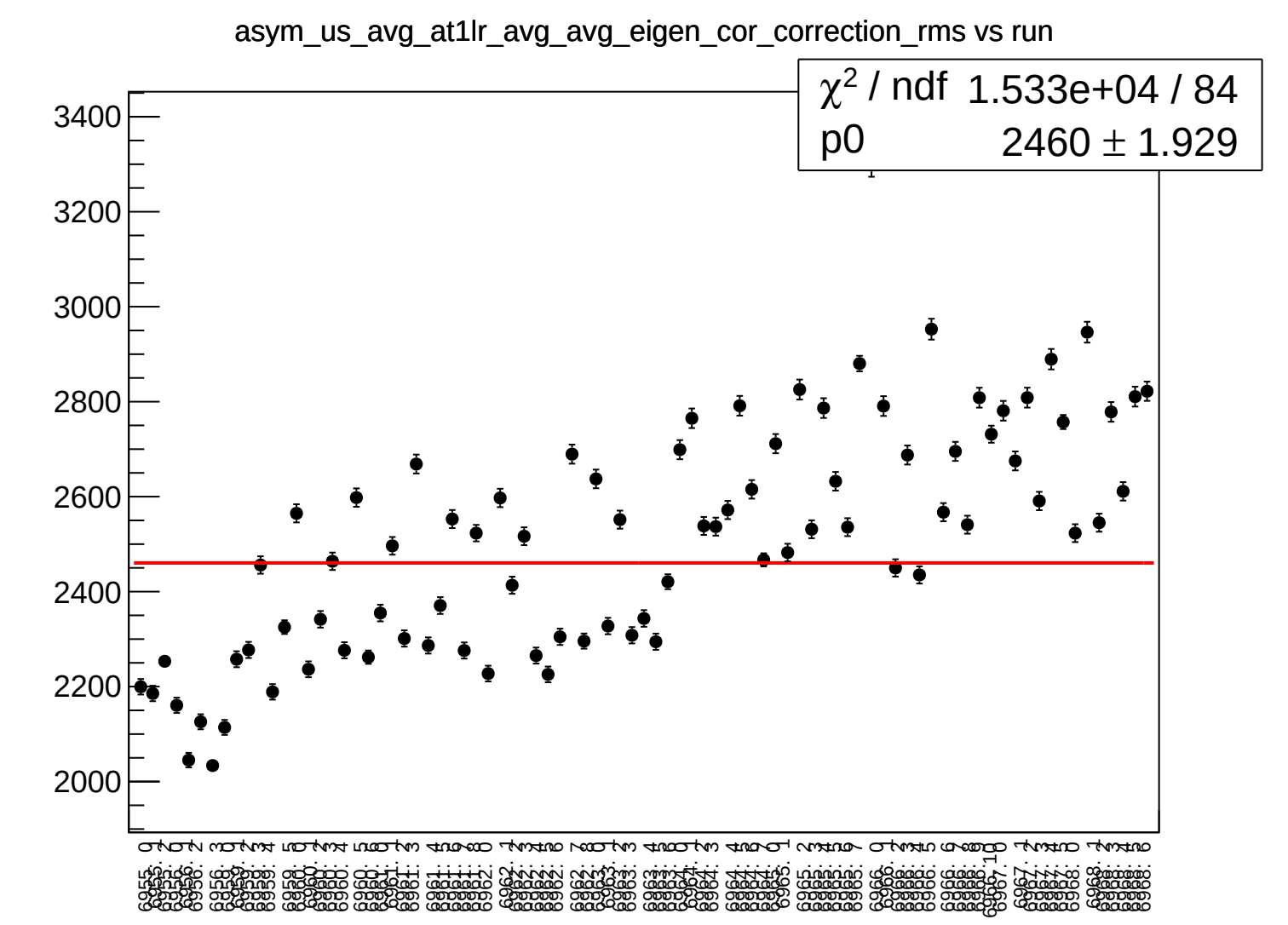

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.533e+04 / 84
p0 2460 ± 1.929
3400
3200
3000
2800
2600
2400
2200
2000

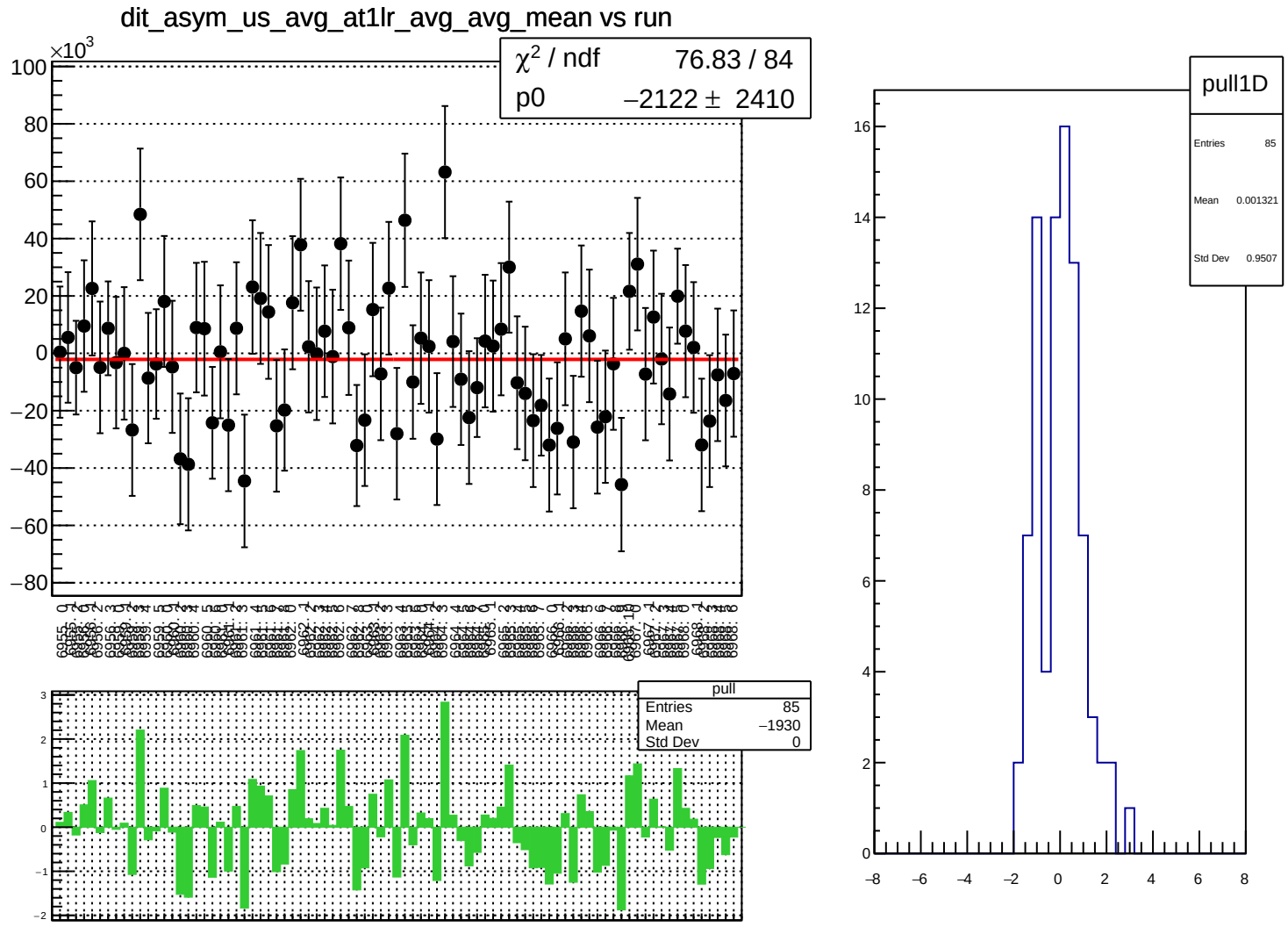

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76.04 / 84
p0 −1980 ± 2407
×10³
pull
Entries 85
Mean −971.5
Std Dev 0
pull1D
Entries 85
Mean 0.002417
Std Dev 0.9458

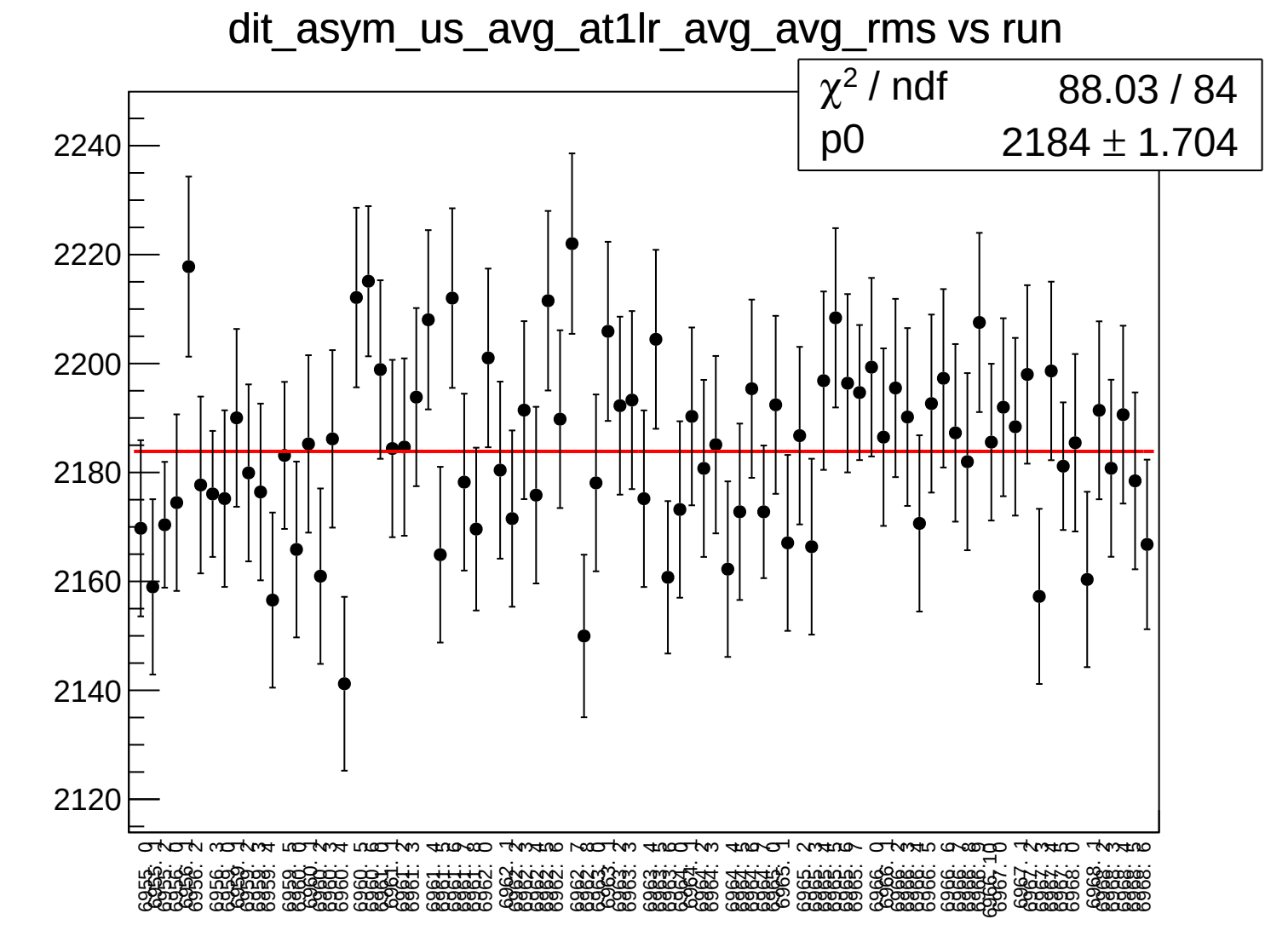

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 85.86 / 84
p0 2181 ± 1.702
2240
2220
2200
2180
2160
2140
2120

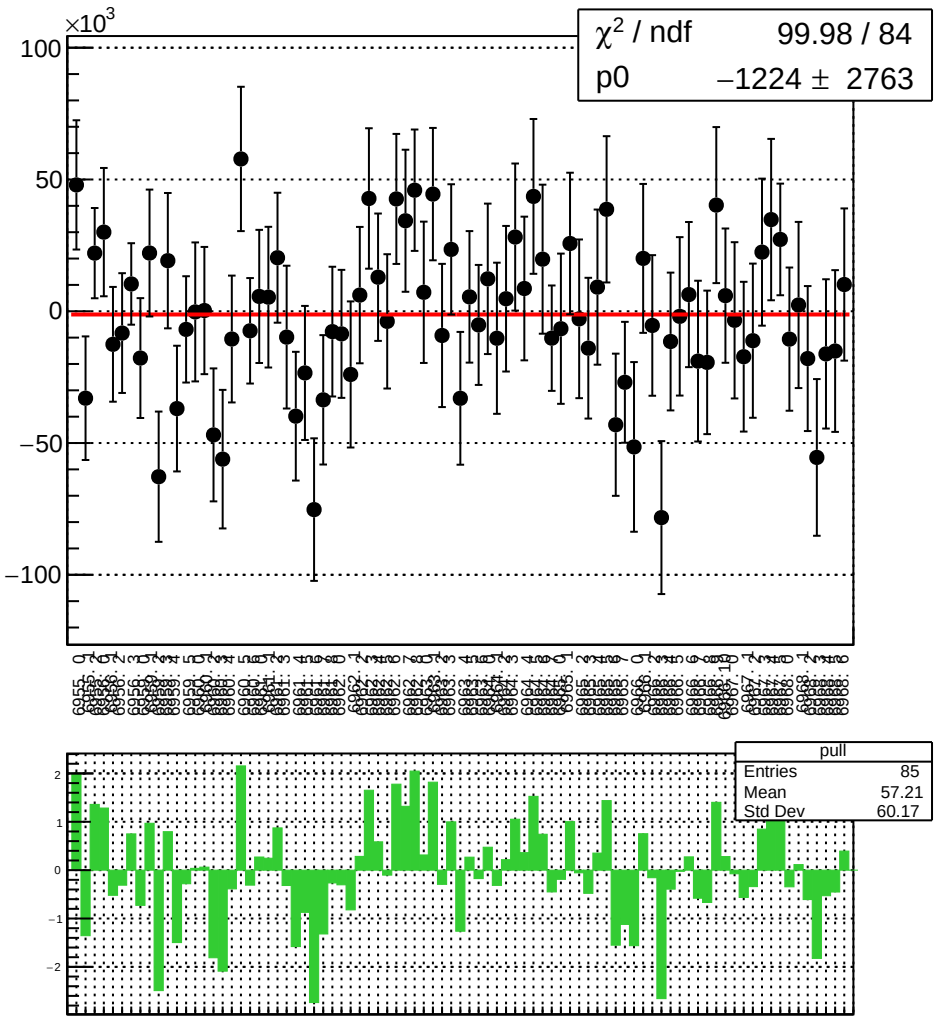

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 99.97 / 84
p0 −1111 ± 2728
100
50
0
−50
−100
pull
Entries 85
Mean 49.16
Std Dev 66.58
2
1
0
−1
−2

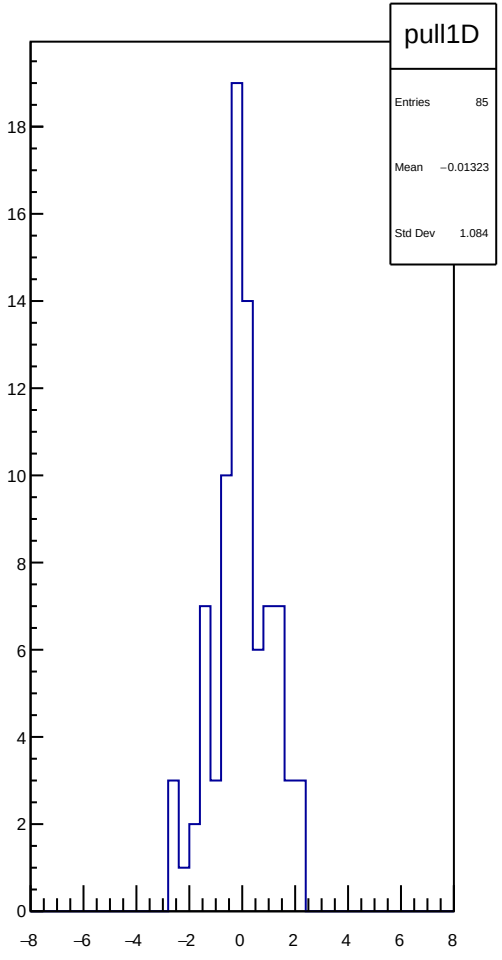

pull1D
Entries 85
Mean −0.01175
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

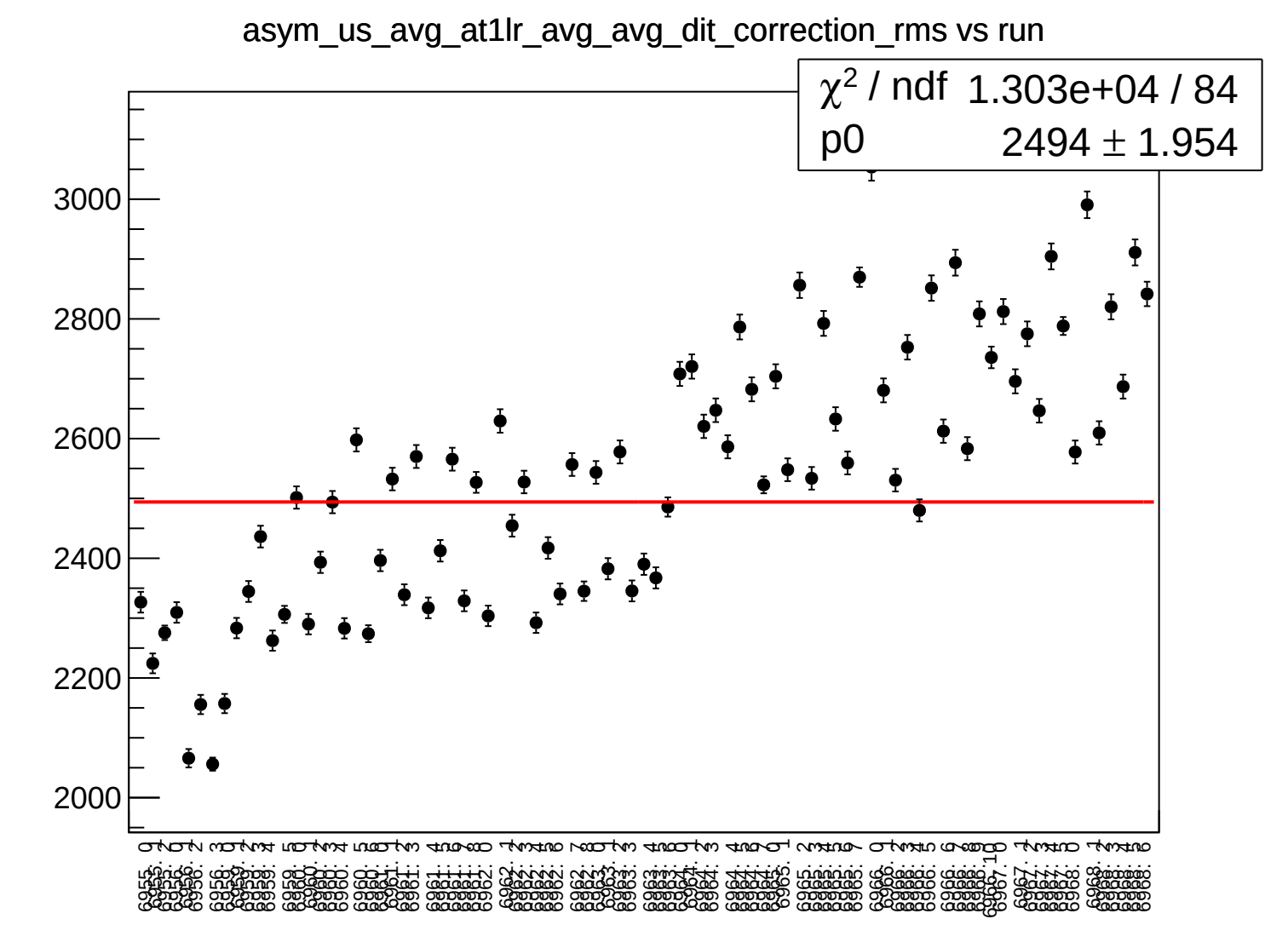

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.533e+04 / 84
p0 2460 ± 1.929
3400
3200
3000
2800
2600
2400
2200
2000

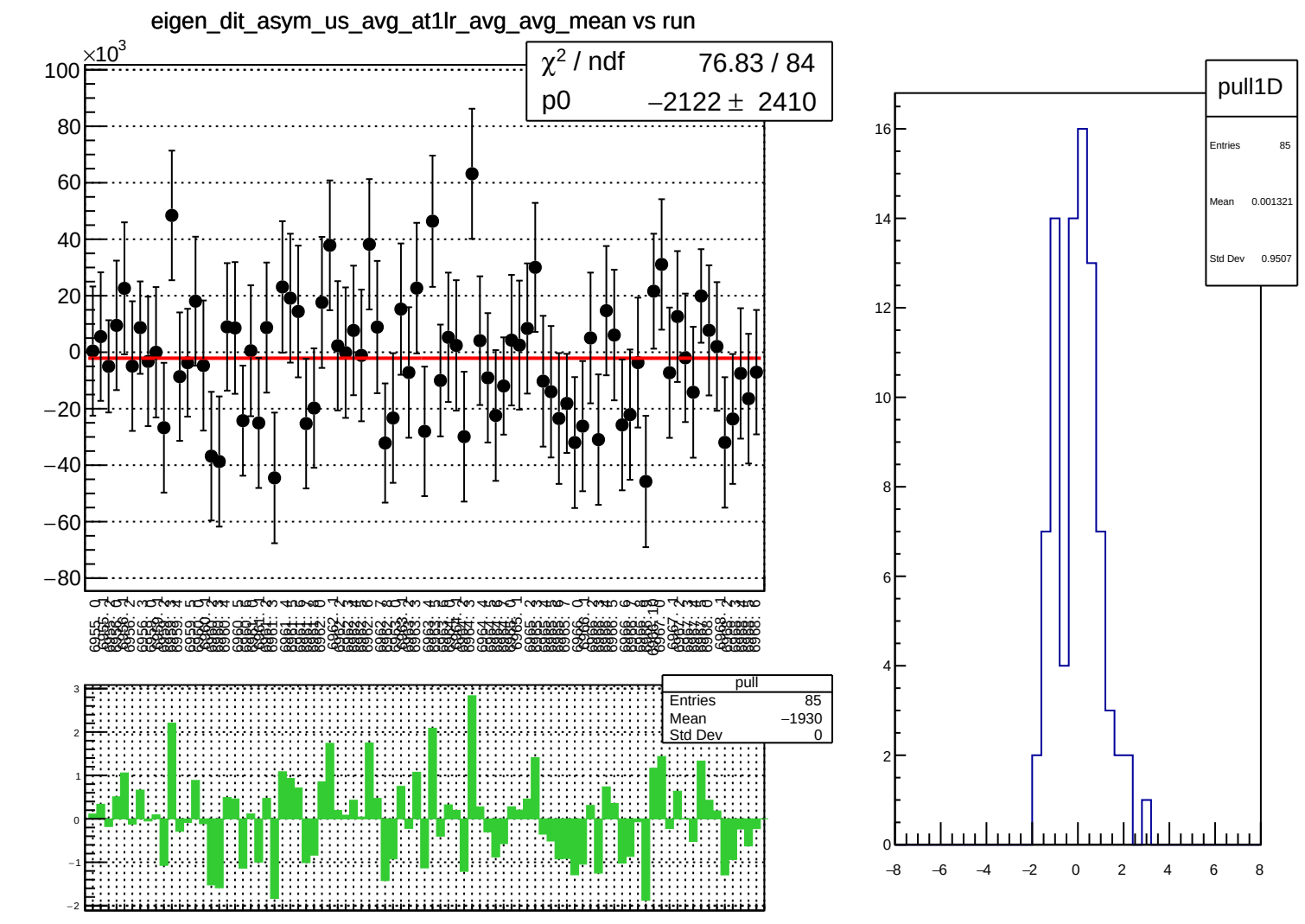

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 76.83 / 84
p0 −2122 ± 2410
pull
Entries 85
Mean −1930
Std Dev 0
pull1D
Entries 85
Mean 0.001321
Std Dev 0.9507

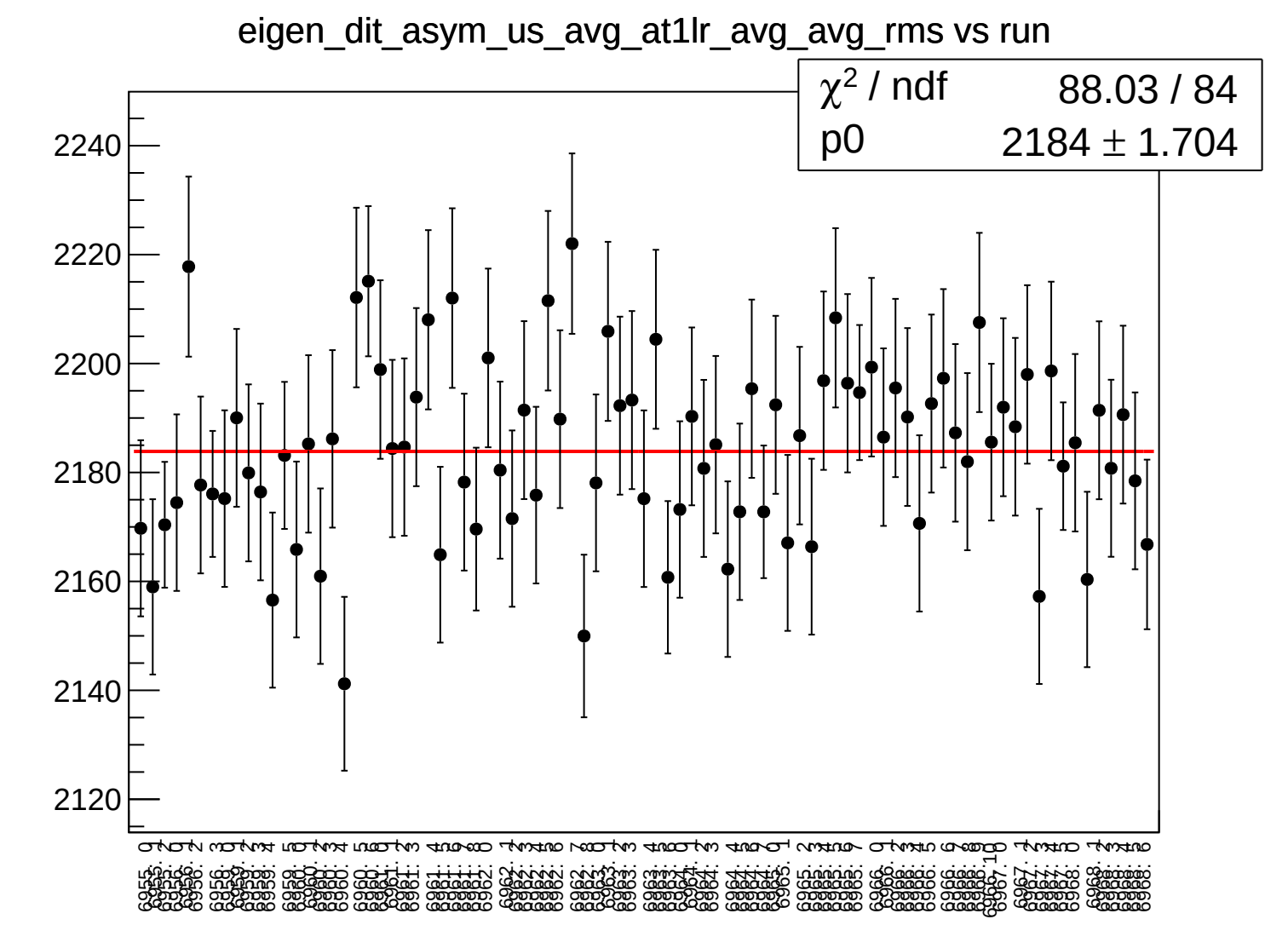

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 88.03 / 84
p0 2184 ± 1.704
2240
2220
2200
2180
2160
2140
2120

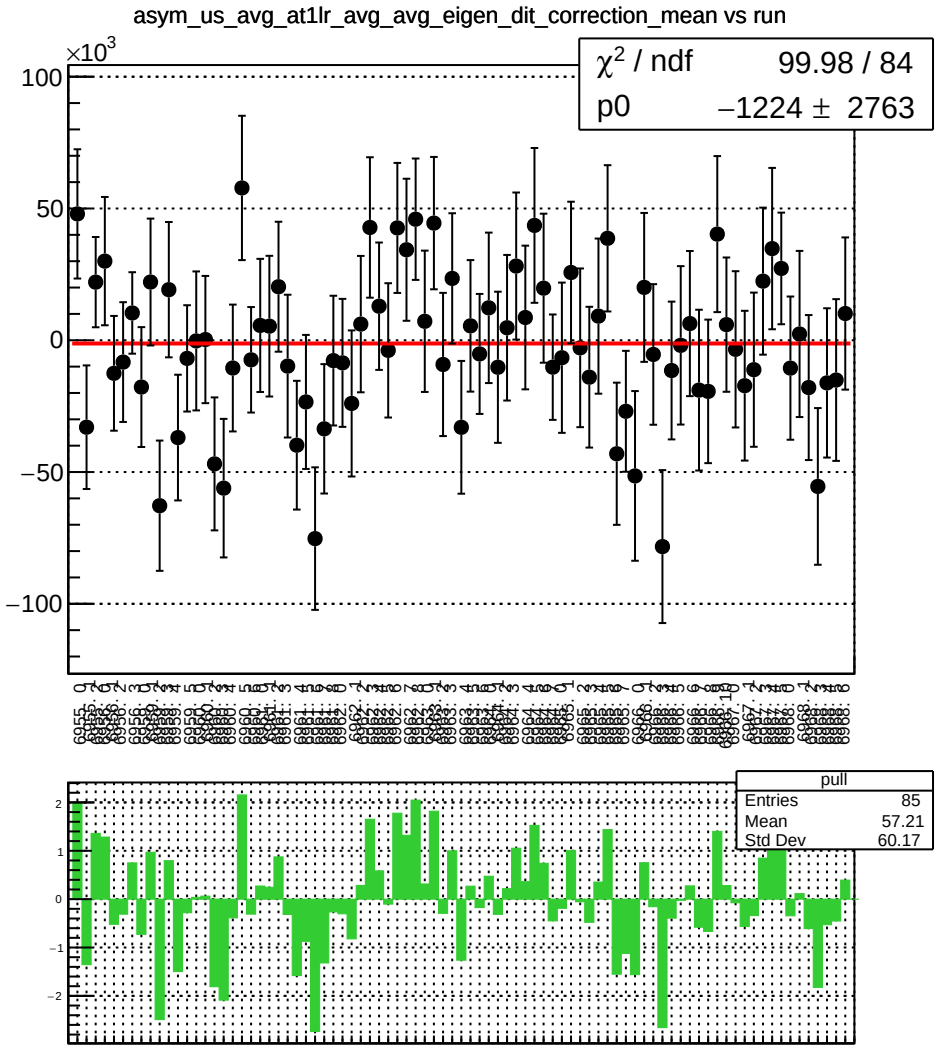

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.98 / 84
p0 −1224 ± 2763
pull
Entries 85
Mean 57.21
Std Dev 60.17

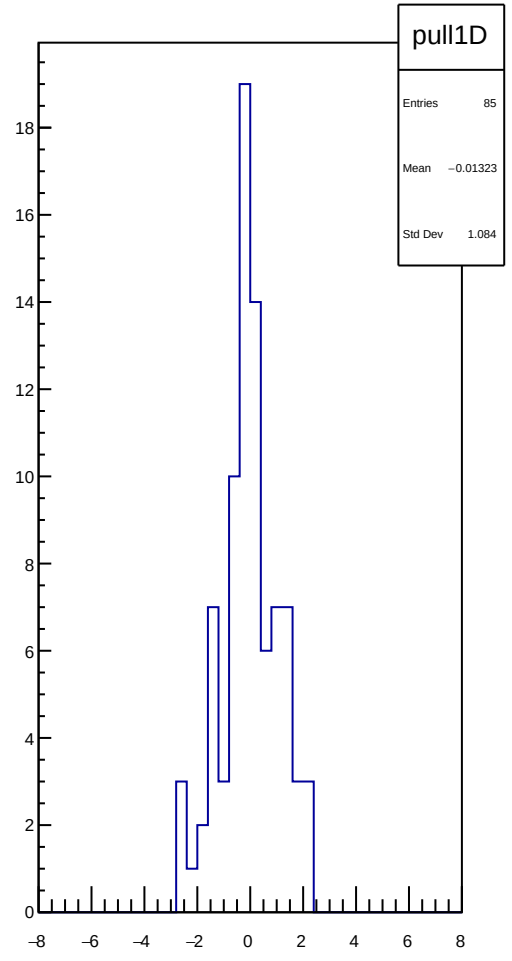

pull1D
Entries 85
Mean −0.01323
Std Dev 1.084

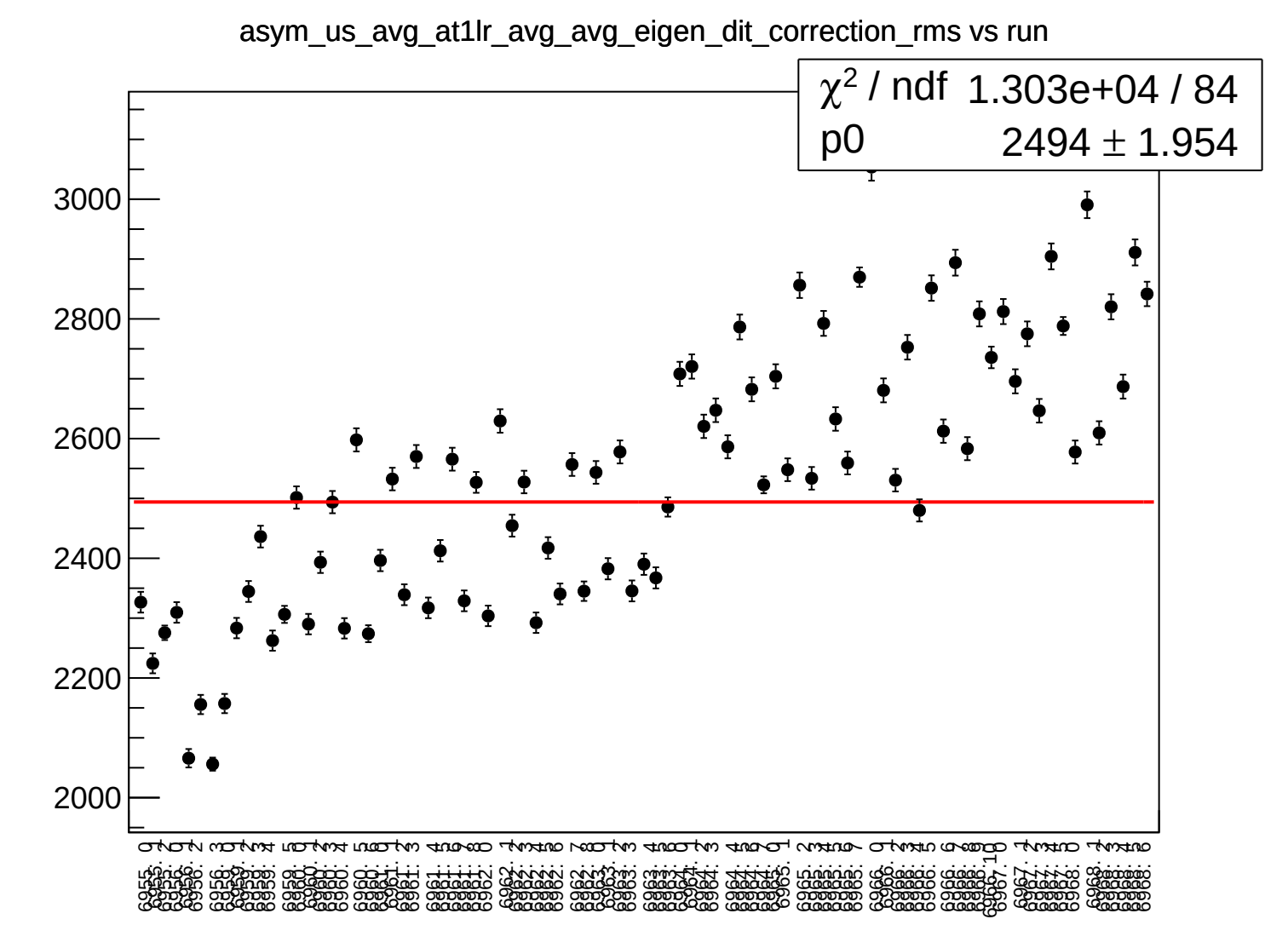

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.303e+04 / 84
p0 2494 ± 1.954
3000
2800
2600
2400
2200
2000

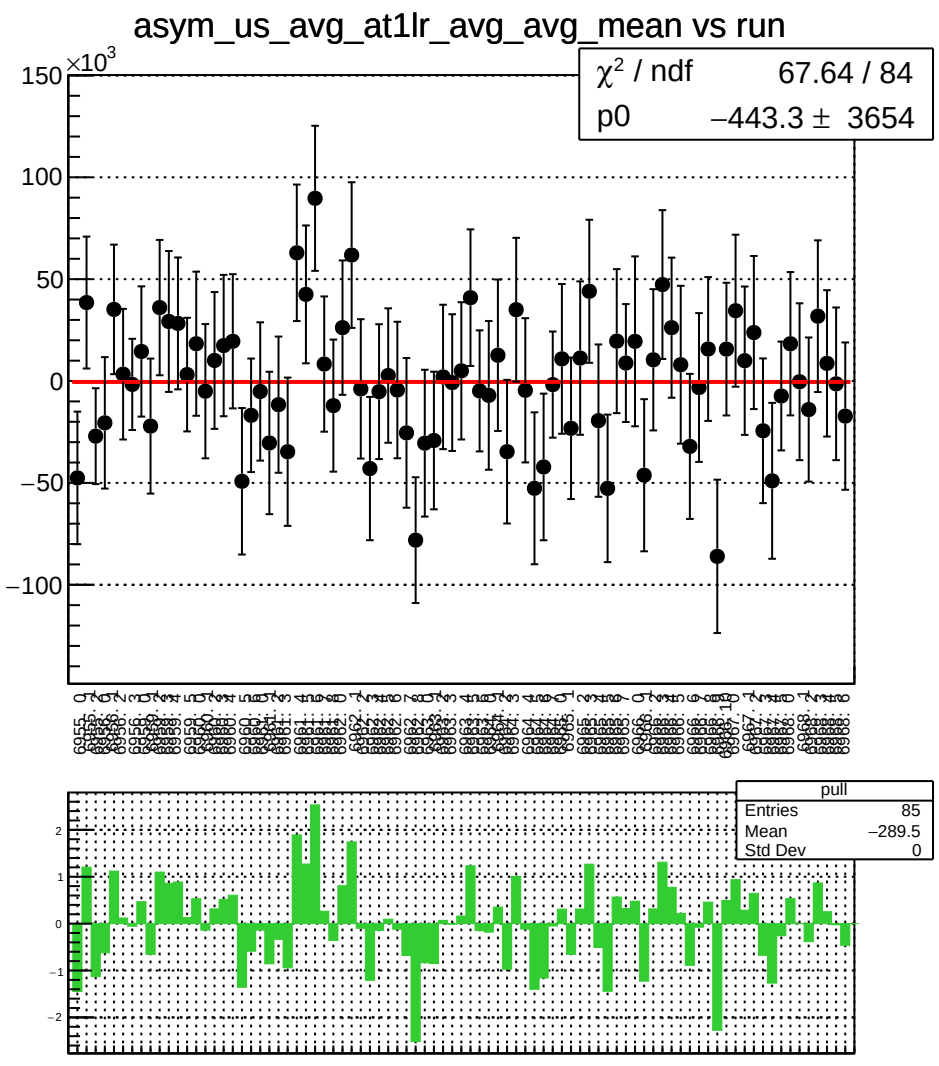

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 76.83 / 84
p0 −2122 ± 2410
pull
Entries 85
Mean −1930
Std Dev 0
pull1D
Entries 85
Mean 0.001321
Std Dev 0.9507

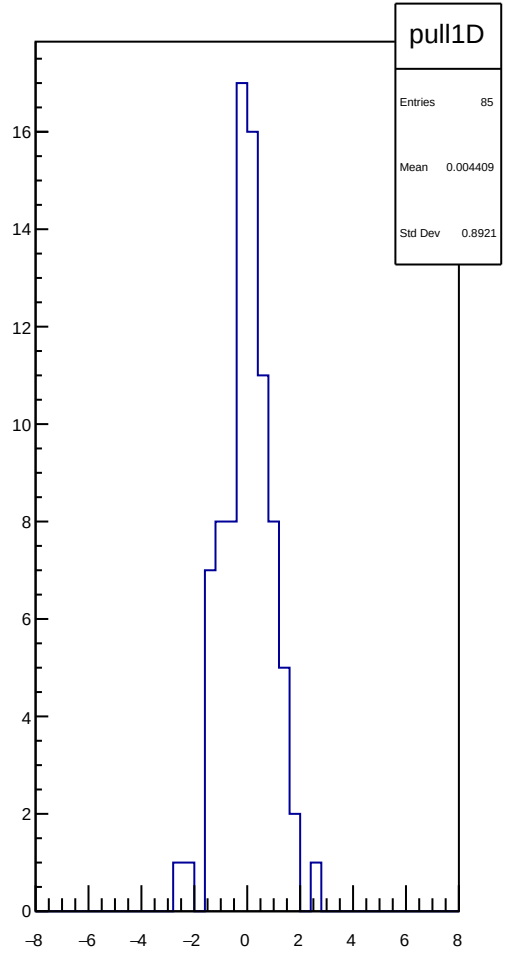

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 88.03 / 84
p0 2184 ± 1.704
2240
2220
2200
2180
2160
2140
2120

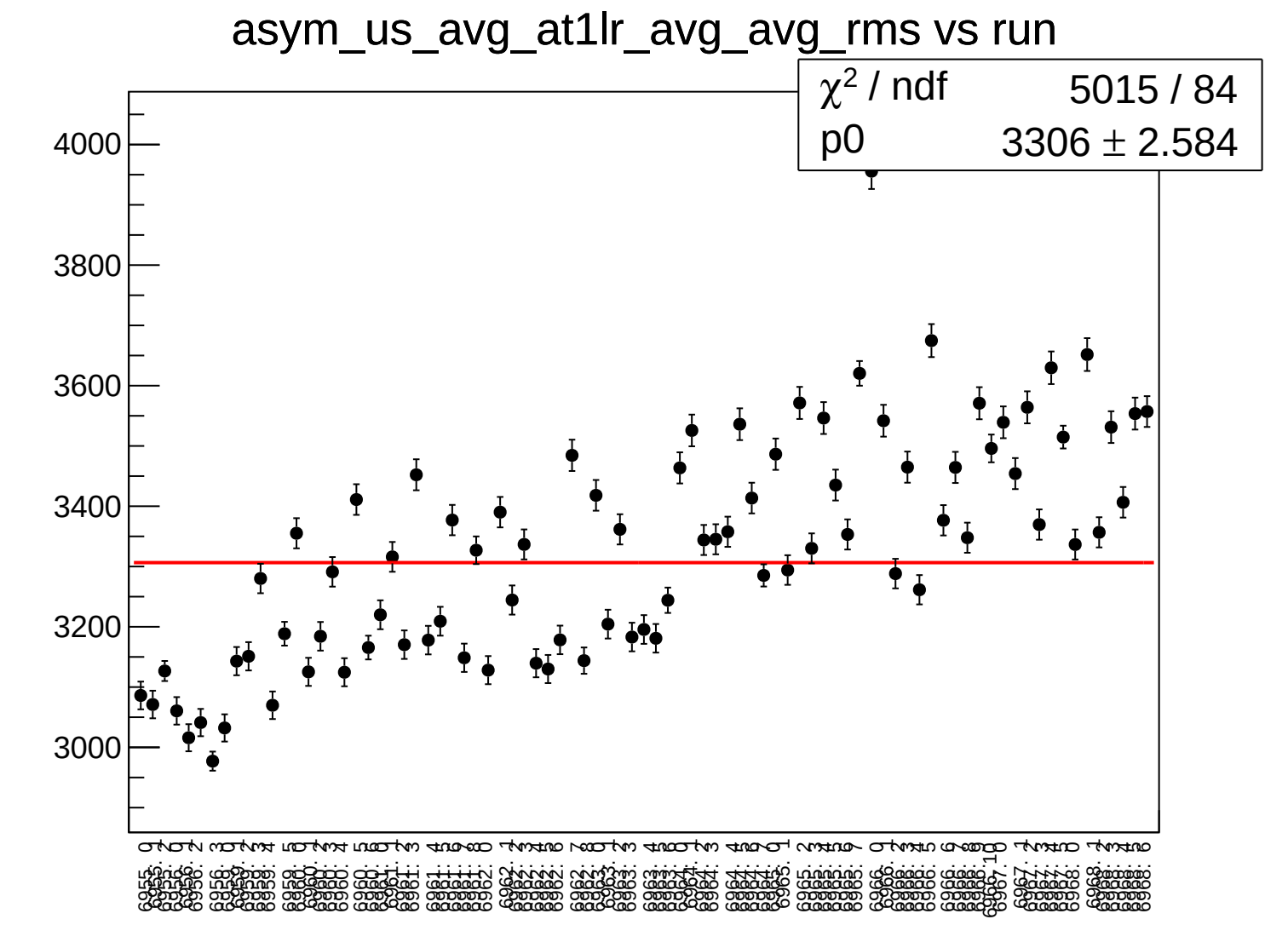

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.98 / 84
p0 −1224 ± 2763
pull
Entries 85
Mean 57.21
Std Dev 60.17

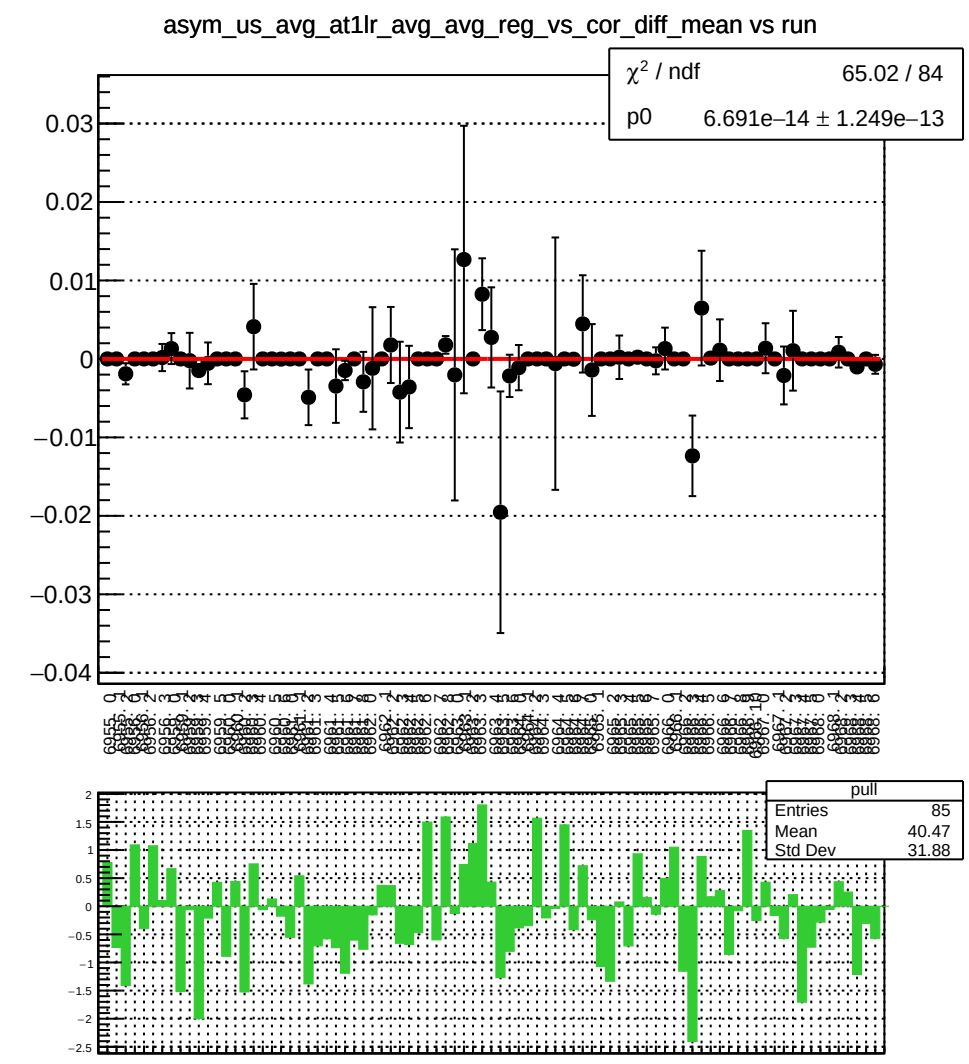

pull1D
Entries 85
Mean −0.01323
Std Dev 1.084

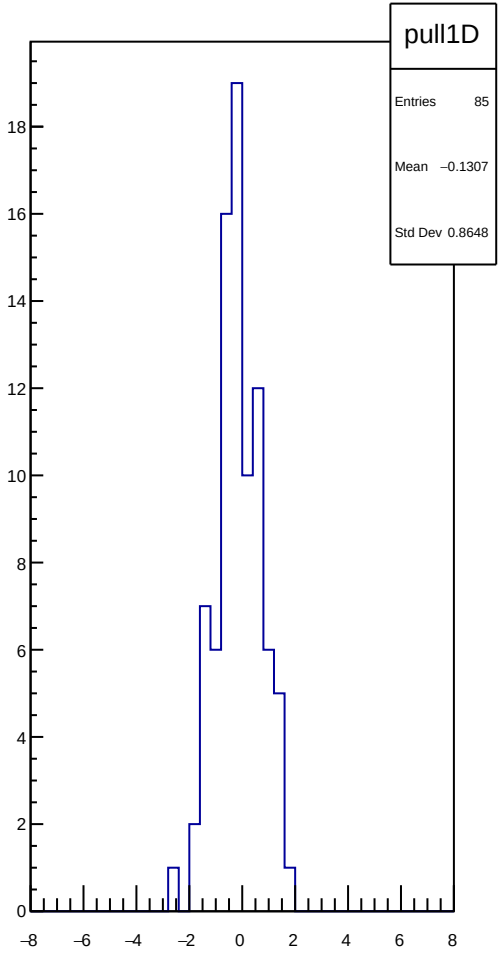

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.303e+04 / 84
p0 2494 ± 1.954
3000
2800
2600
2400
2200
2000

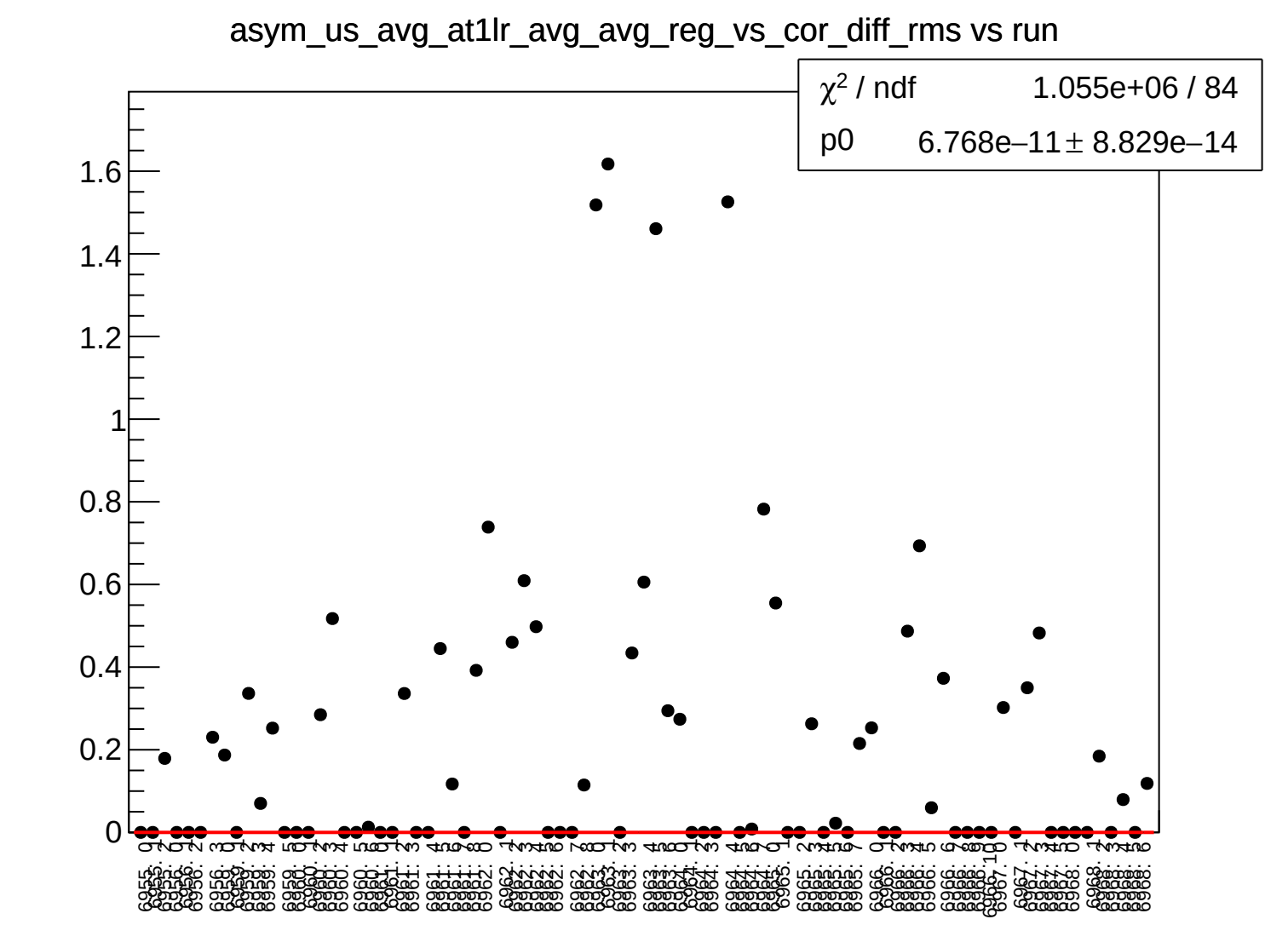

asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 67.64 / 84
p0 −443.3 ± 3654
×10³
150
100
50
0
−50
−100
pull
Entries 85
Mean −289.5
Std Dev 0
2
1
0
−1
−2

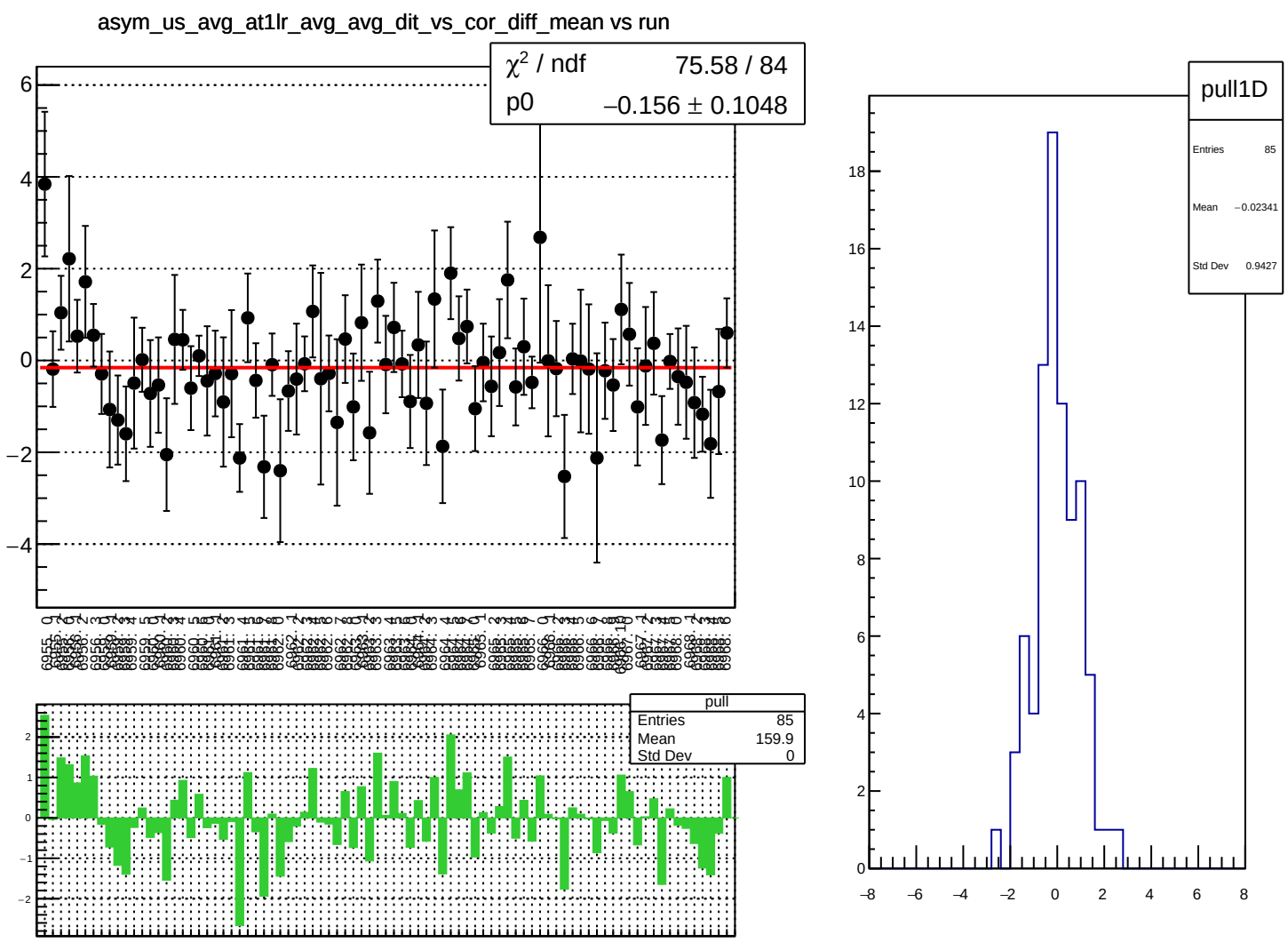

pull1D
Entries 85
Mean 0.004409
Std Dev 0.8921
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

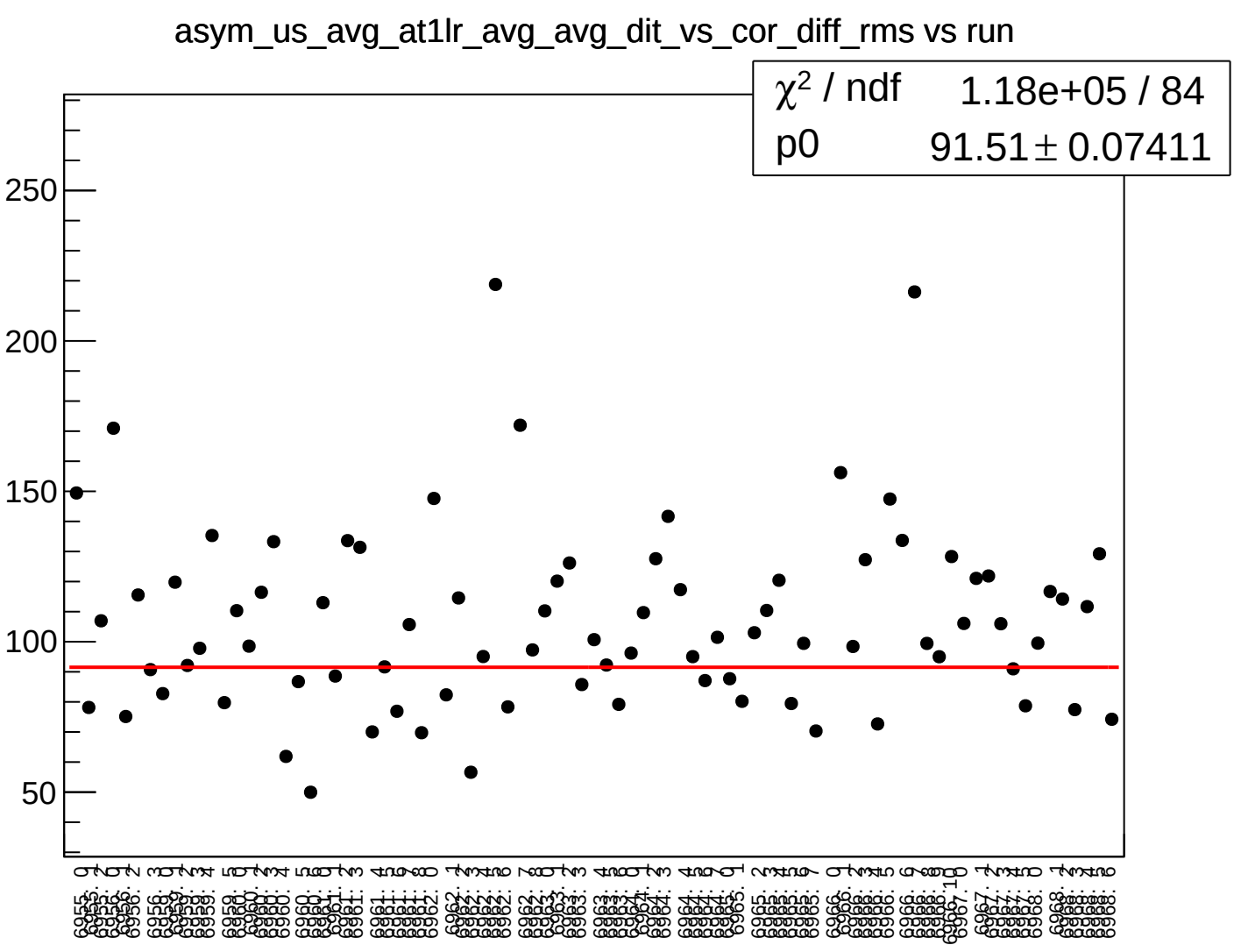

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 5015 / 84
p0 3306 ± 2.584
4000
3800
3600
3400
3200
3000

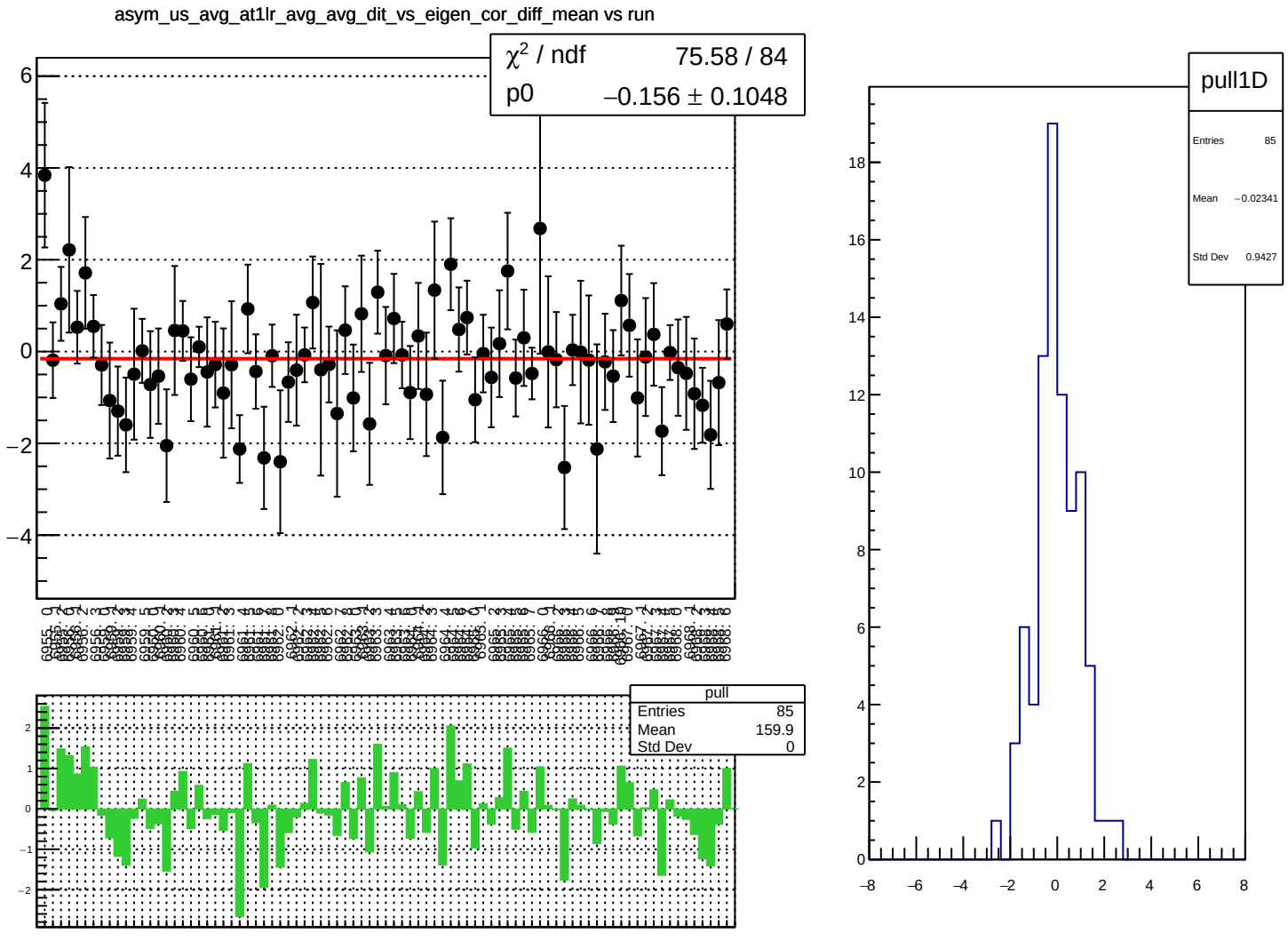

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.02 / 84
p0 6.691e−14 ± 1.249e−13
pull
Entries 85
Mean 40.47
Std Dev 31.88

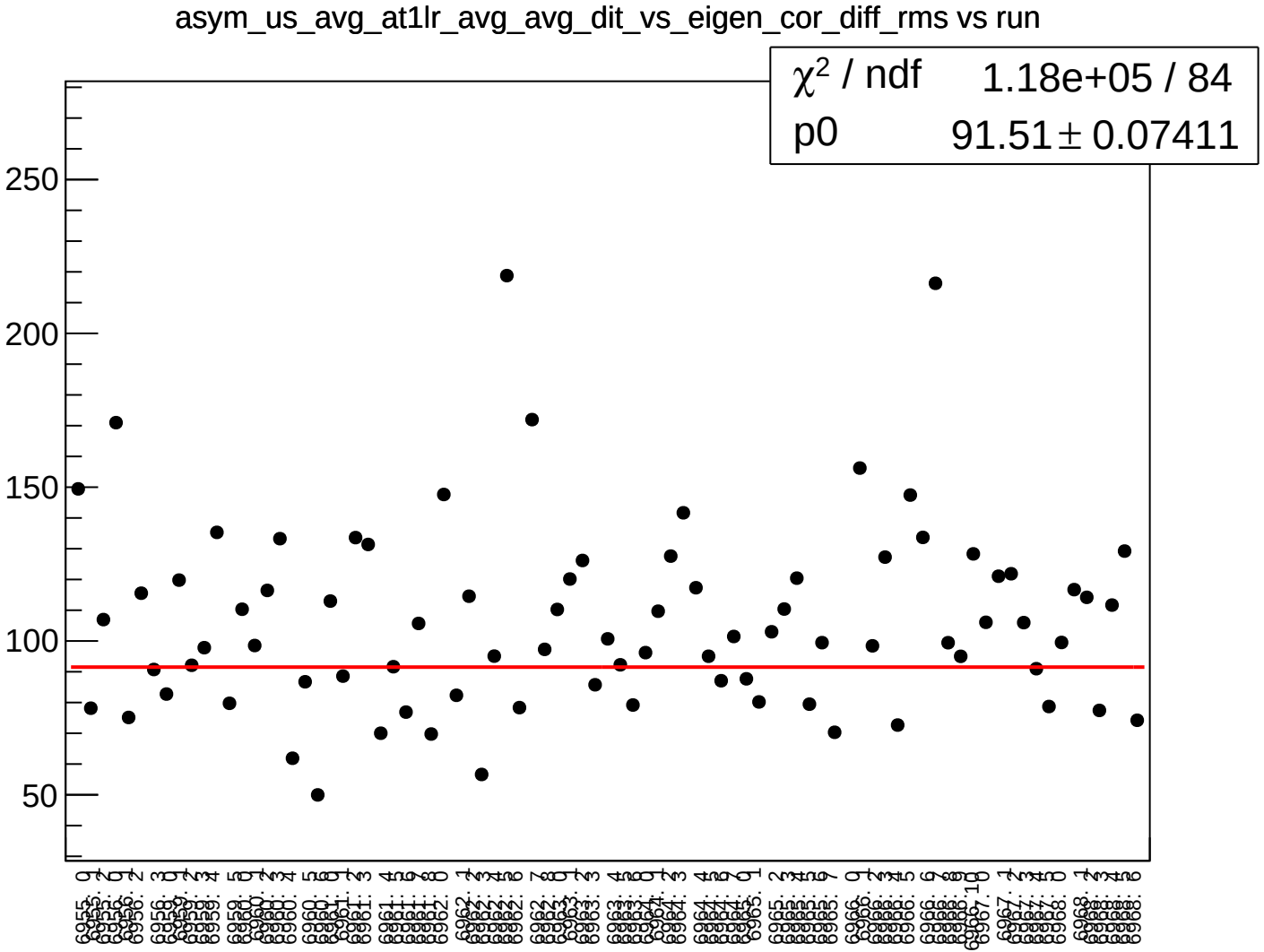

pull1D
Entries 85
Mean −0.1307
Std Dev 0.8648

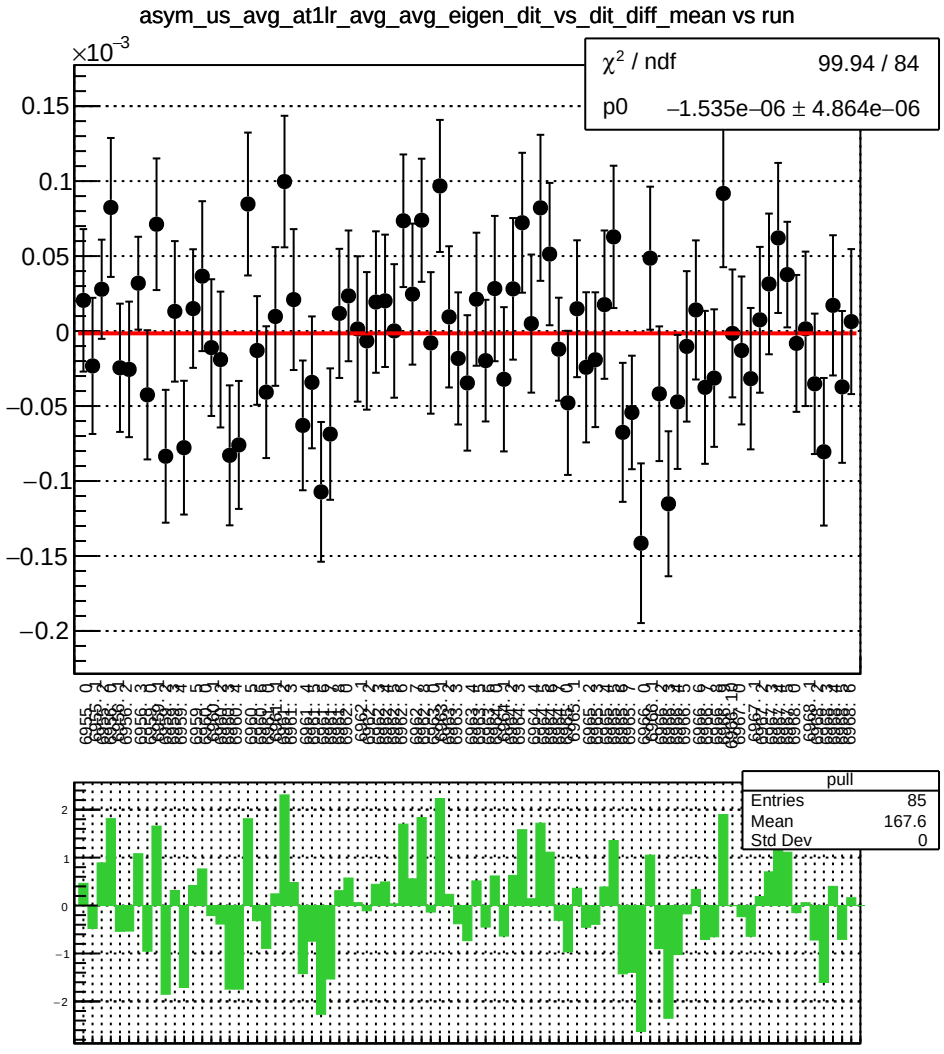

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 84
p0 6.768e−11 ± 8.829e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

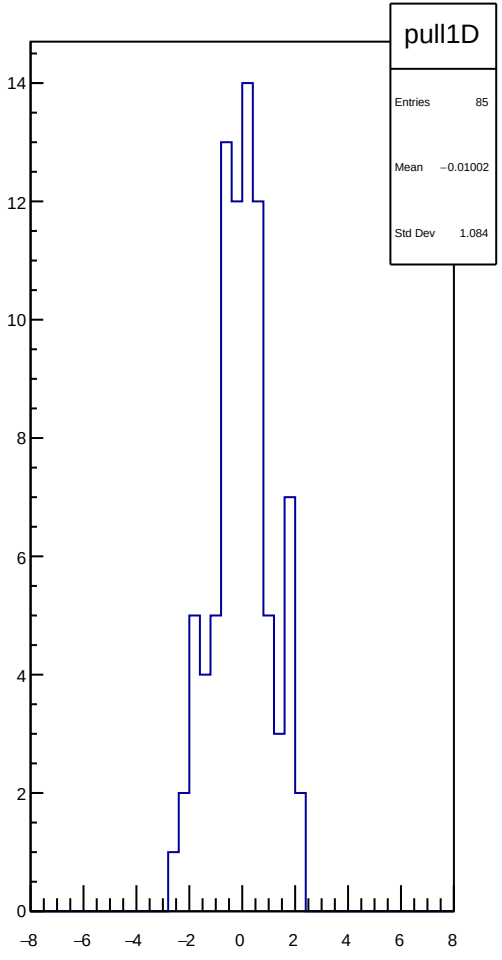

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.58 / 84
p0 −0.156 ± 0.1048
pull
Entries 85
Mean 159.9
Std Dev 0
pull1D
Entries 85
Mean −0.02341
Std Dev 0.9427

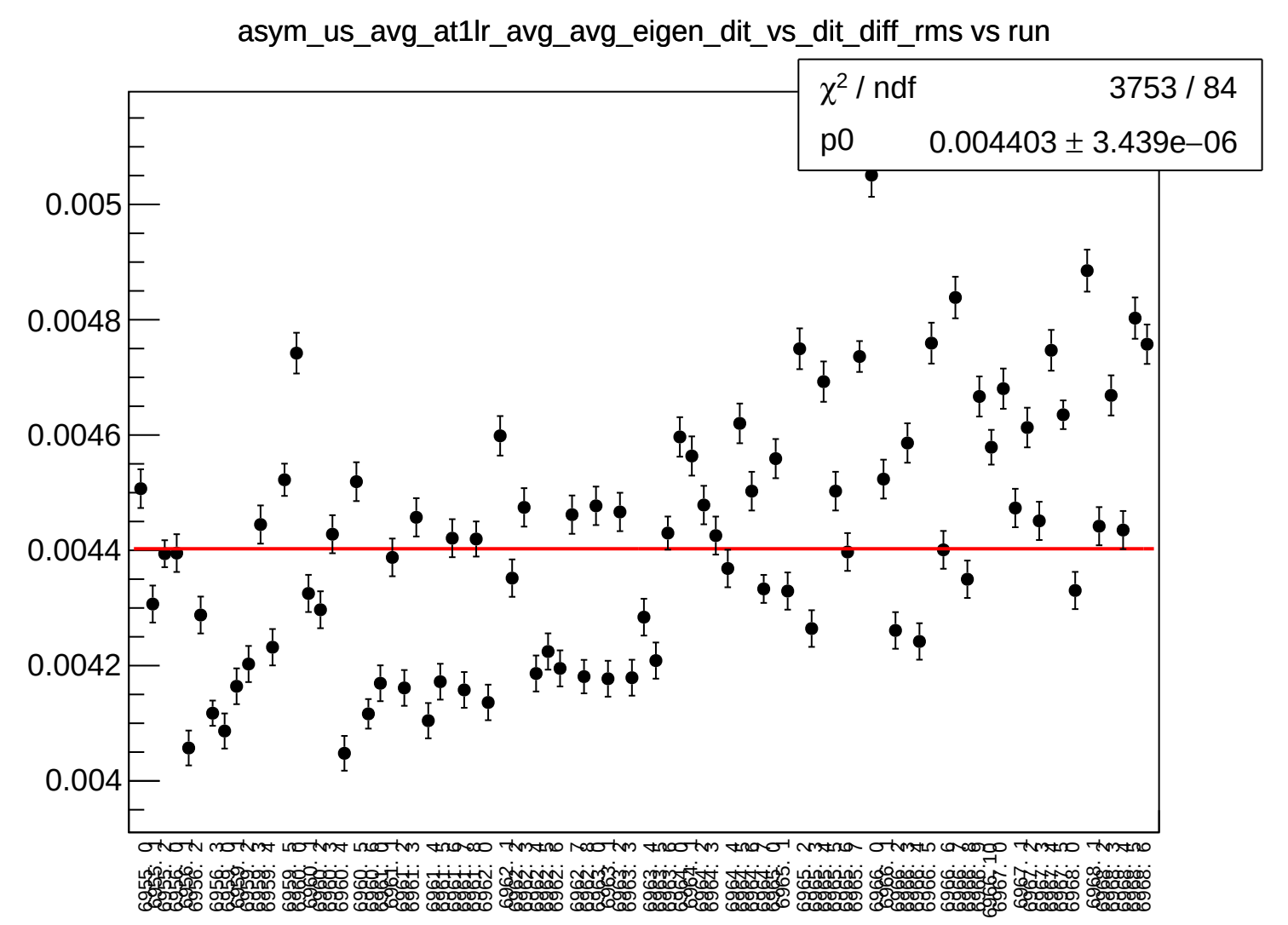

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.18e+05 / 84
p0 91.51 ± 0.07411
250
200
150
100
50

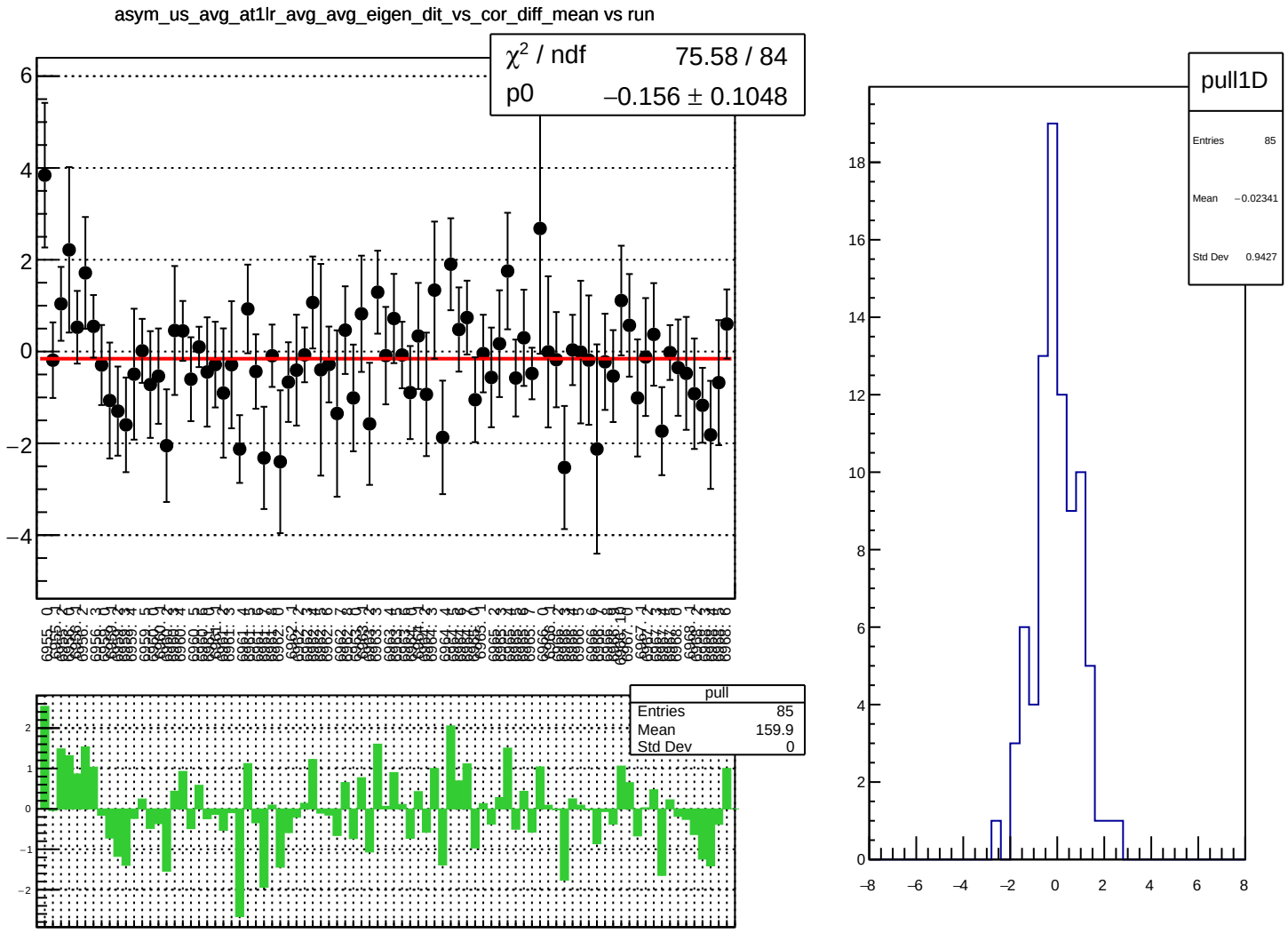

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.58 / 84
p0 −0.156 ± 0.1048
pull
Entries 85
Mean 159.9
Std Dev 0
pull1D
Entries 85
Mean −0.02341
Std Dev 0.9427

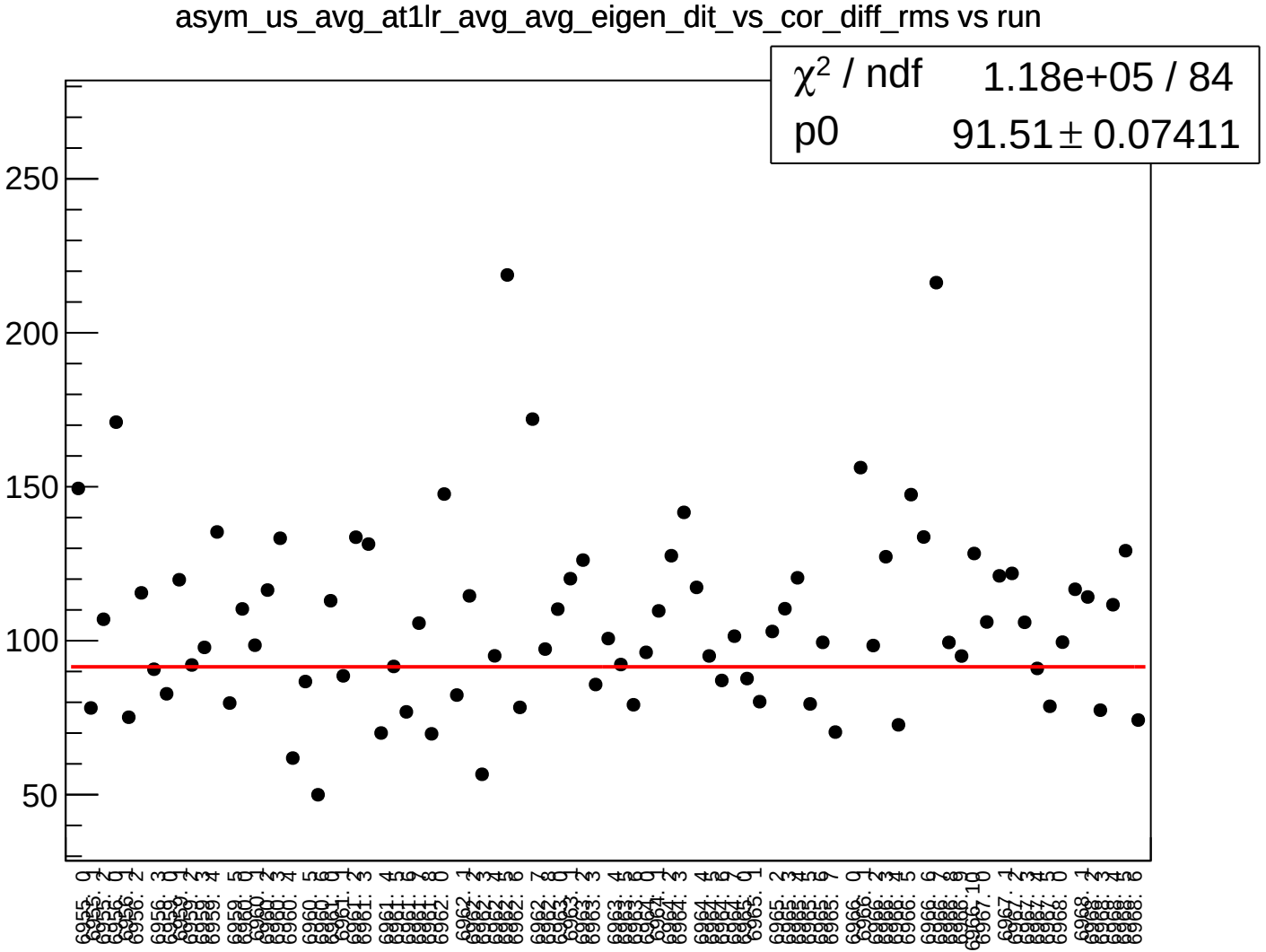

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.18e+05 / 84
p0 91.51 ± 0.07411
250
200
150
100
50

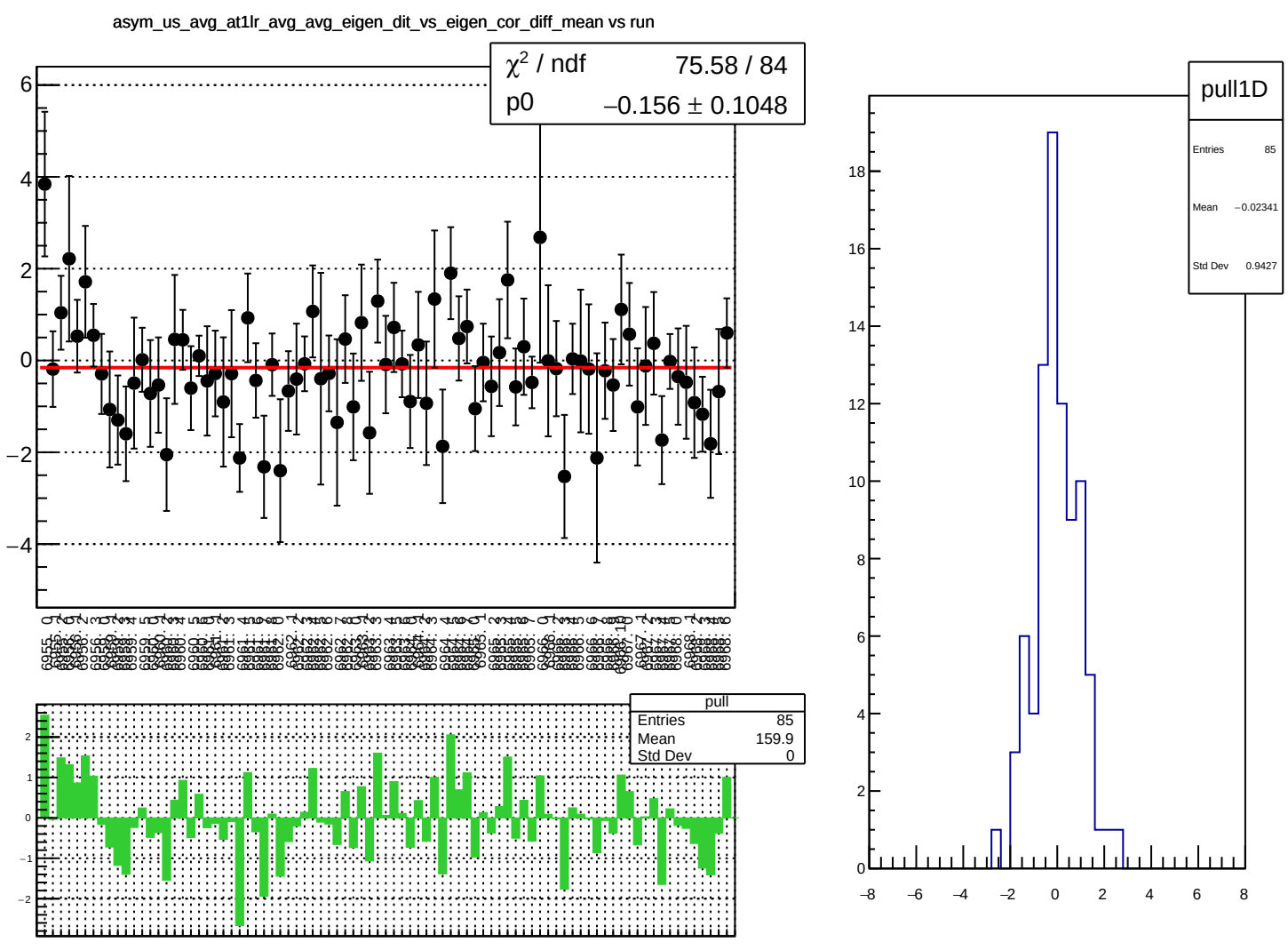

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.94 / 84
p0 −1.535e−06 ± 4.864e−06
pull
Entries 85
Mean 167.6
Std Dev 0

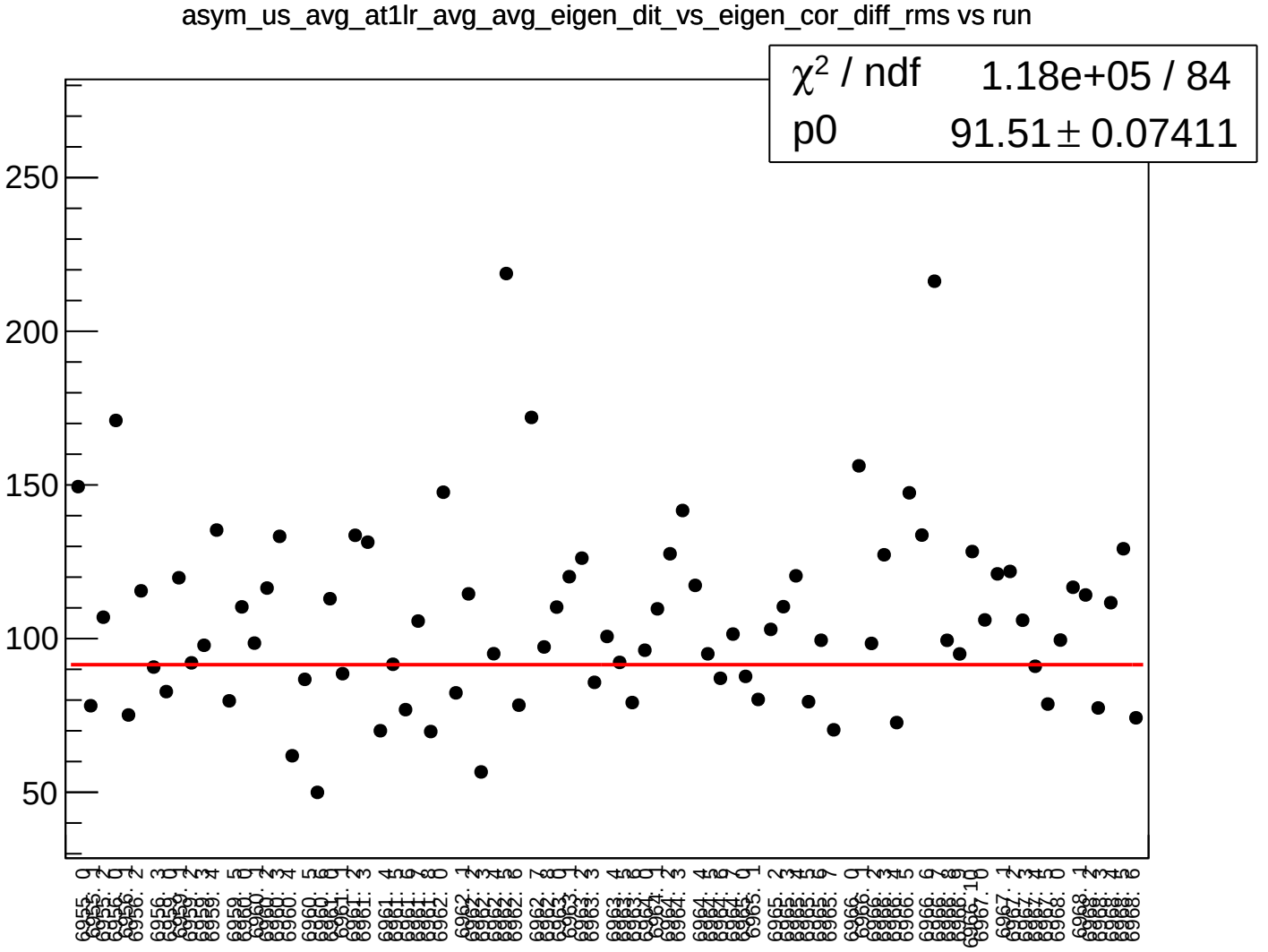

pull1D
Entries 85
Mean −0.01002
Std Dev 1.084

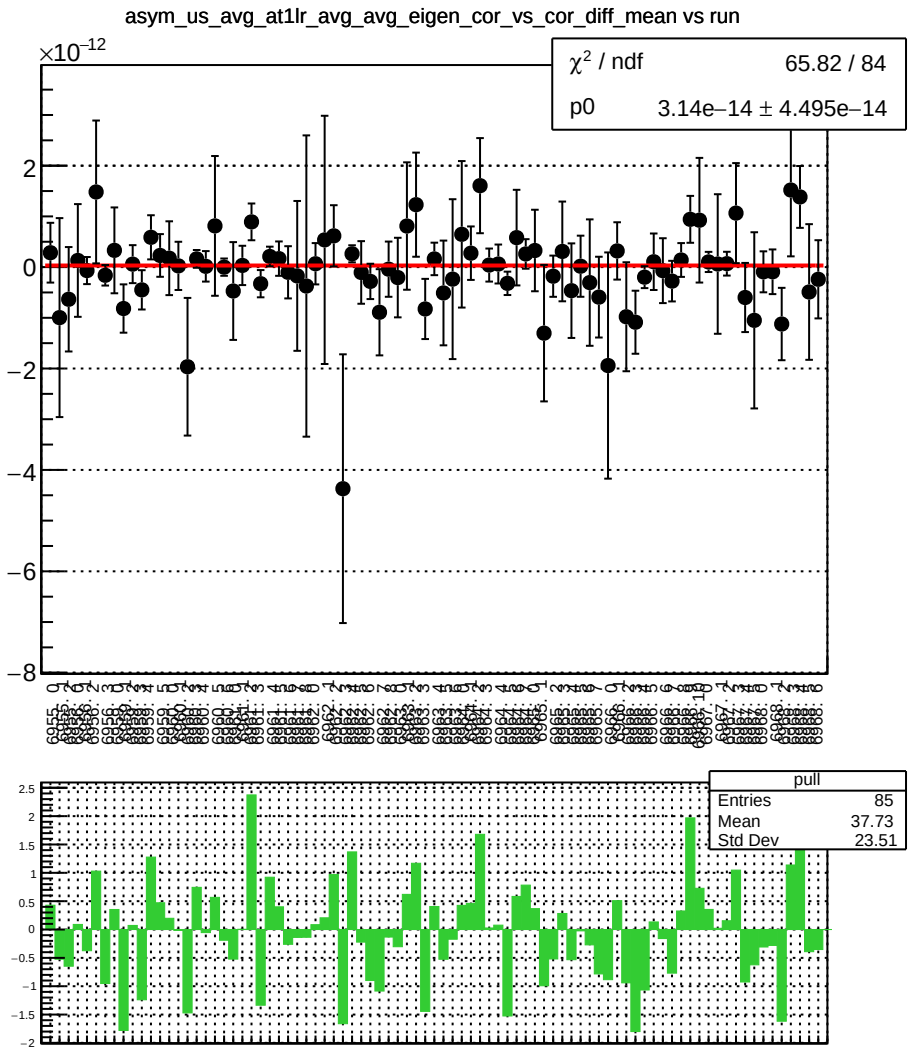

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3753 / 84
p0 0.004403 ± 3.439e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004

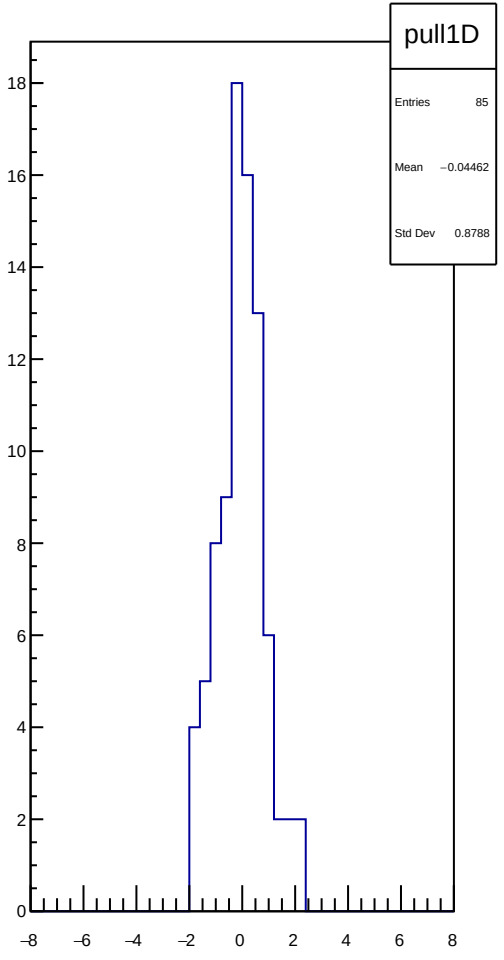

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.58 / 84
p0 −0.156 ± 0.1048
pull
Entries 85
Mean 159.9
Std Dev 0
pull1D
Entries 85
Mean −0.02341
Std Dev 0.9427

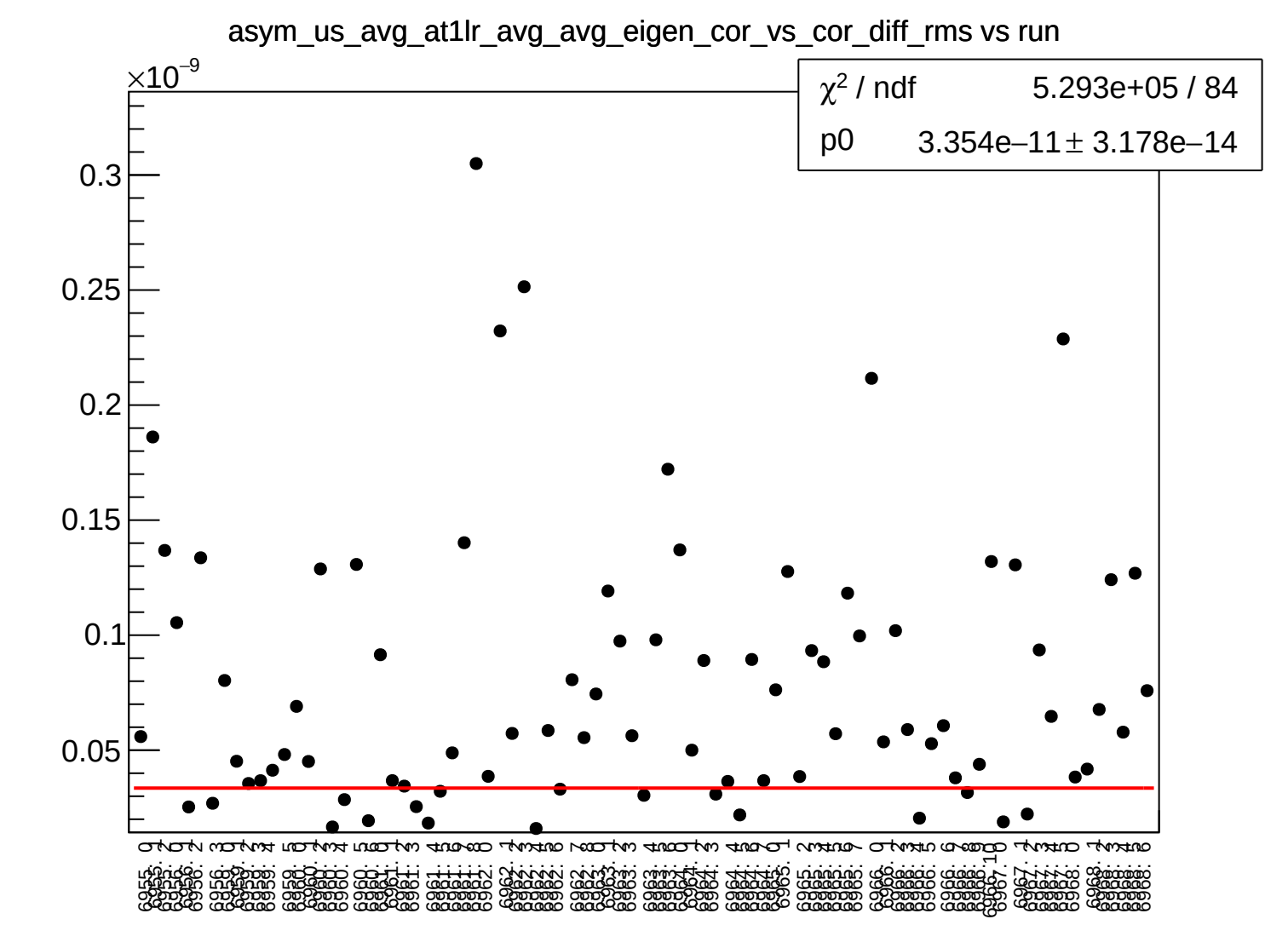

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.18e+05 / 84
p0 91.51 ± 0.07411
250
200
150
100
50

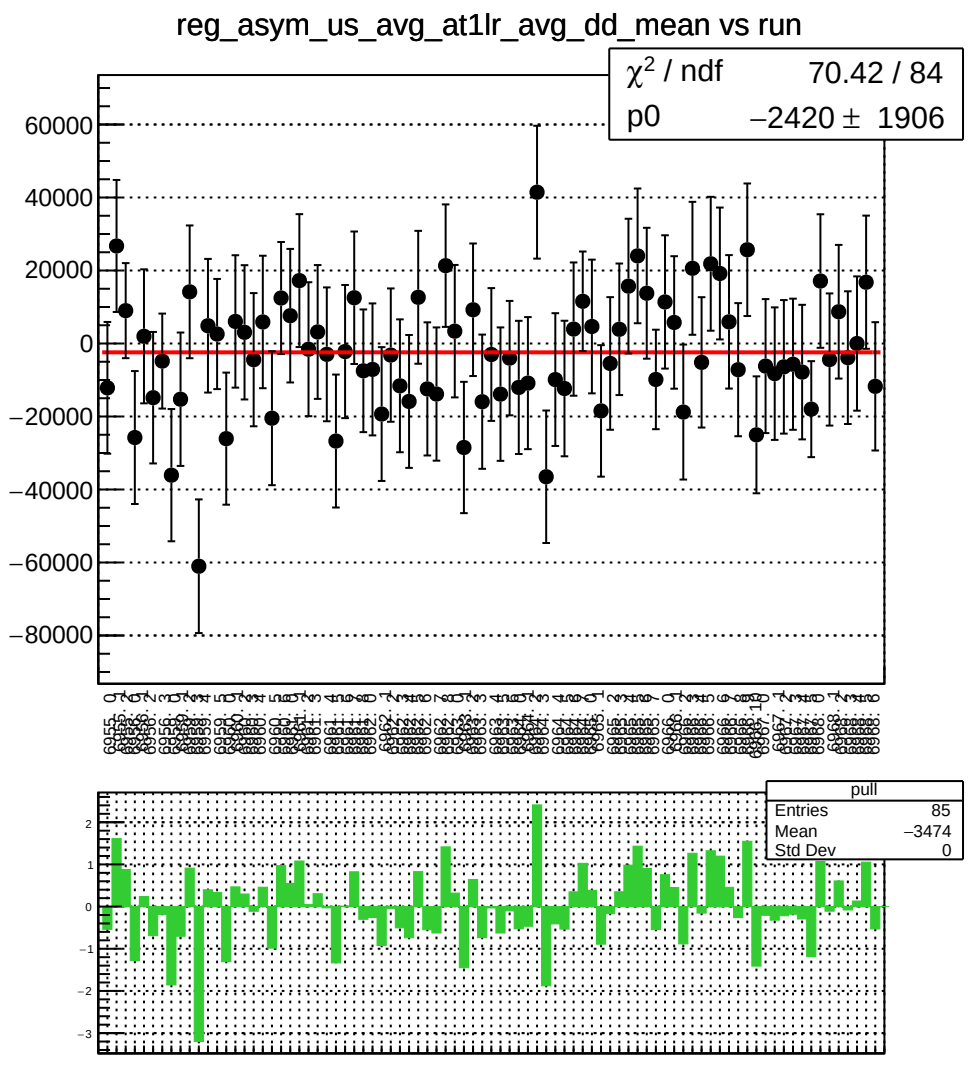

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.58 / 84
p0 −0.156 ± 0.1048
pull
Entries 85
Mean 159.9
Std Dev 0
pull1D
Entries 85
Mean −0.02341
Std Dev 0.9427

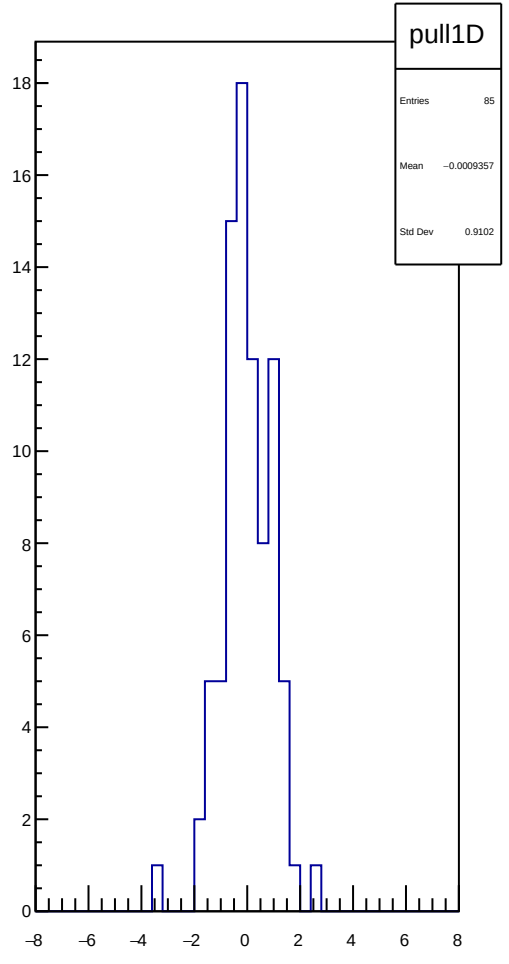

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.18e+05 / 84
p0 91.51 ± 0.07411
250
200
150
100
50

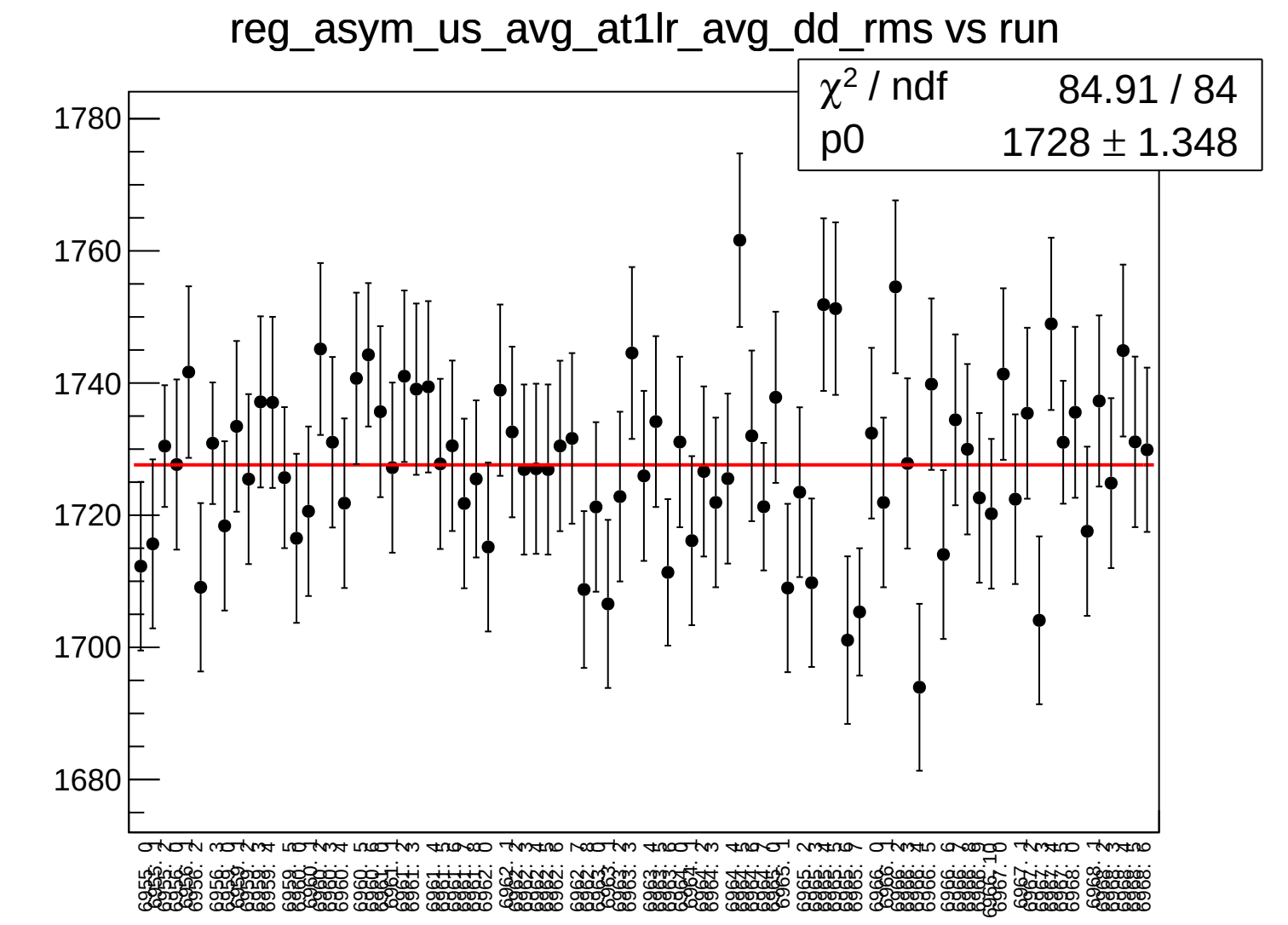

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.82 / 84
p0 3.14e−14 ± 4.495e−14
pull
Entries 85
Mean 37.73
Std Dev 23.51

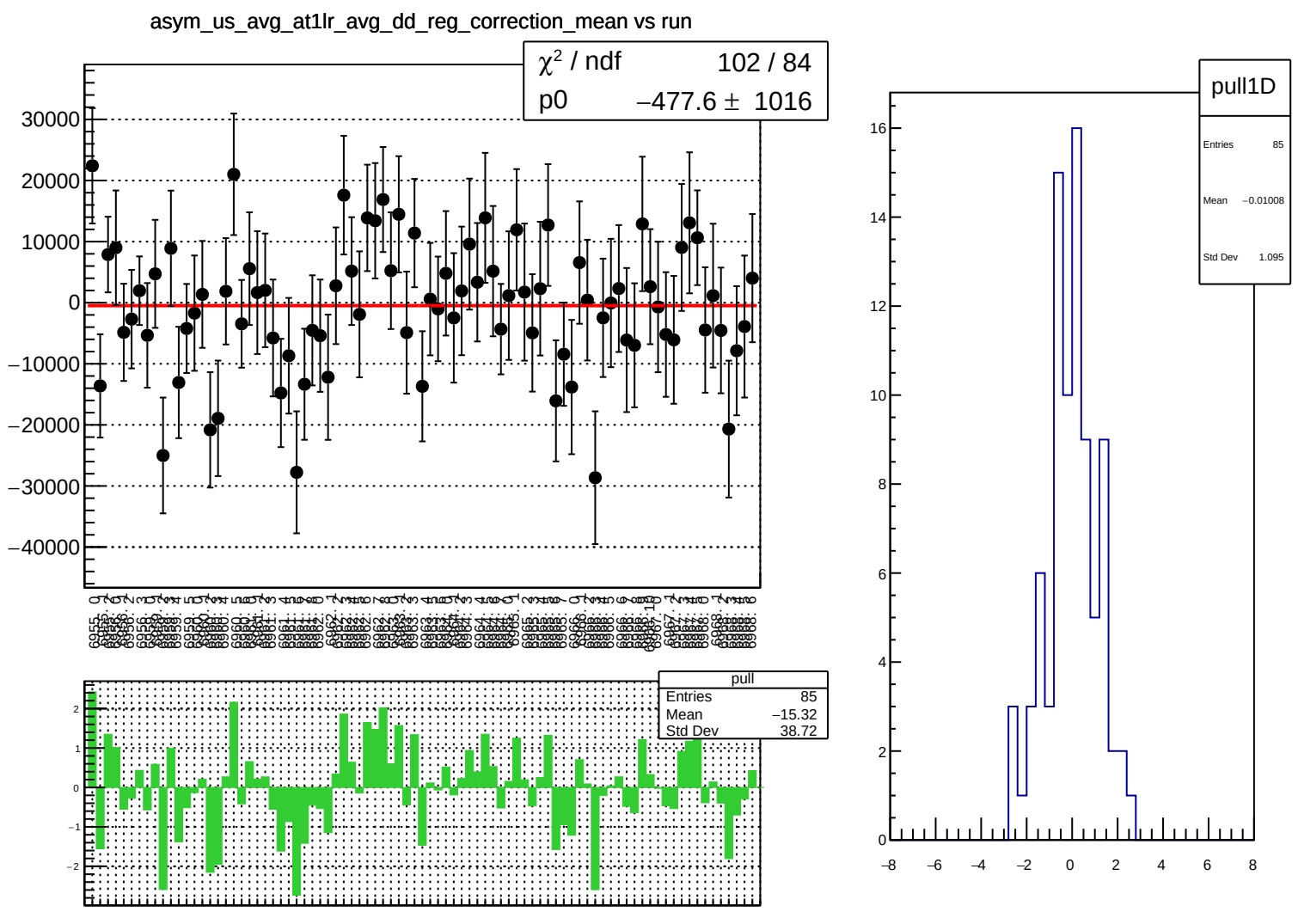

pull1D
Entries 85
Mean −0.04462
Std Dev 0.8788

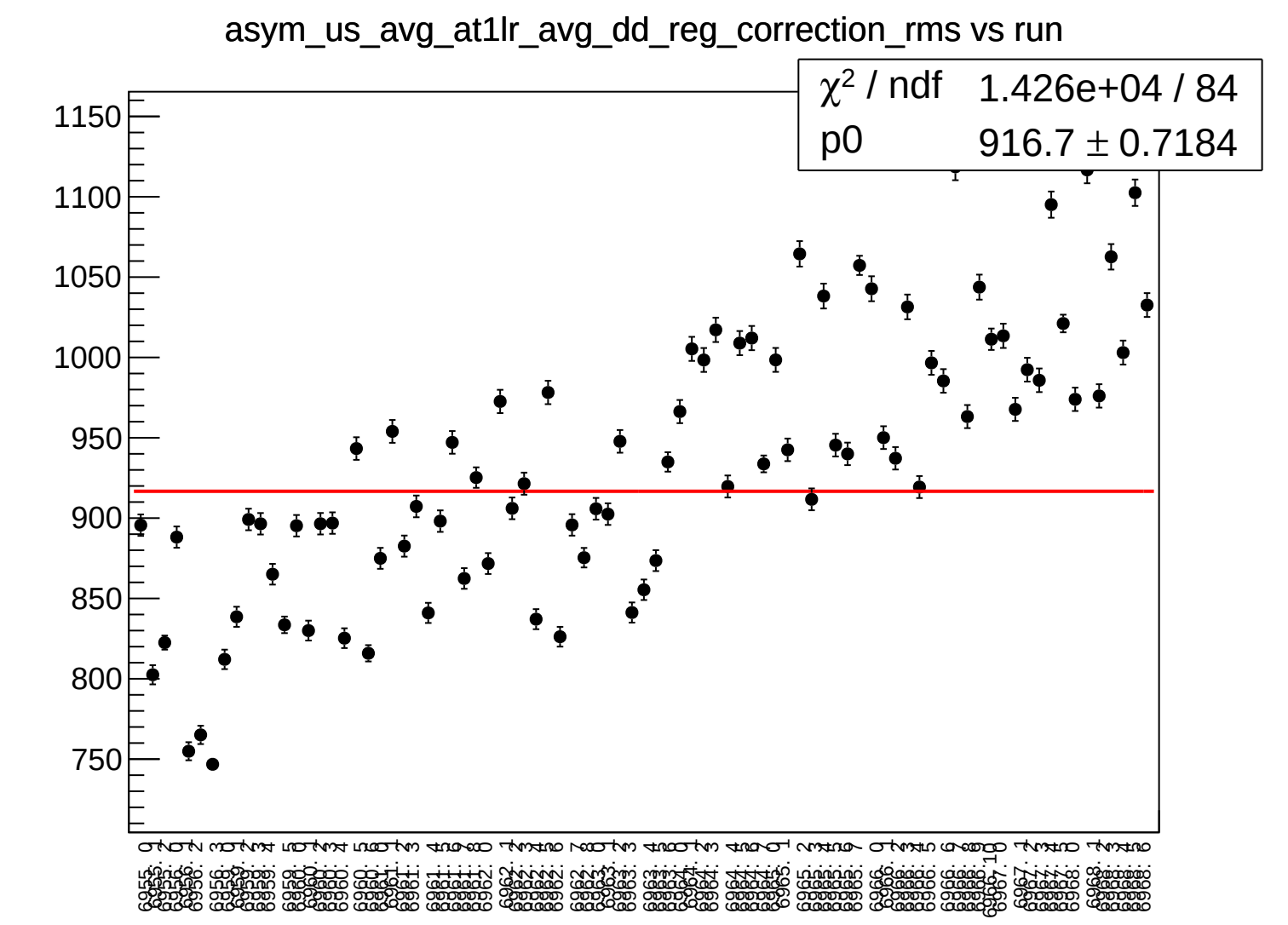

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.293e+05 / 84
p0 3.354e−11 ± 3.178e−14
0.3
0.25
0.2
0.15
0.1
0.05

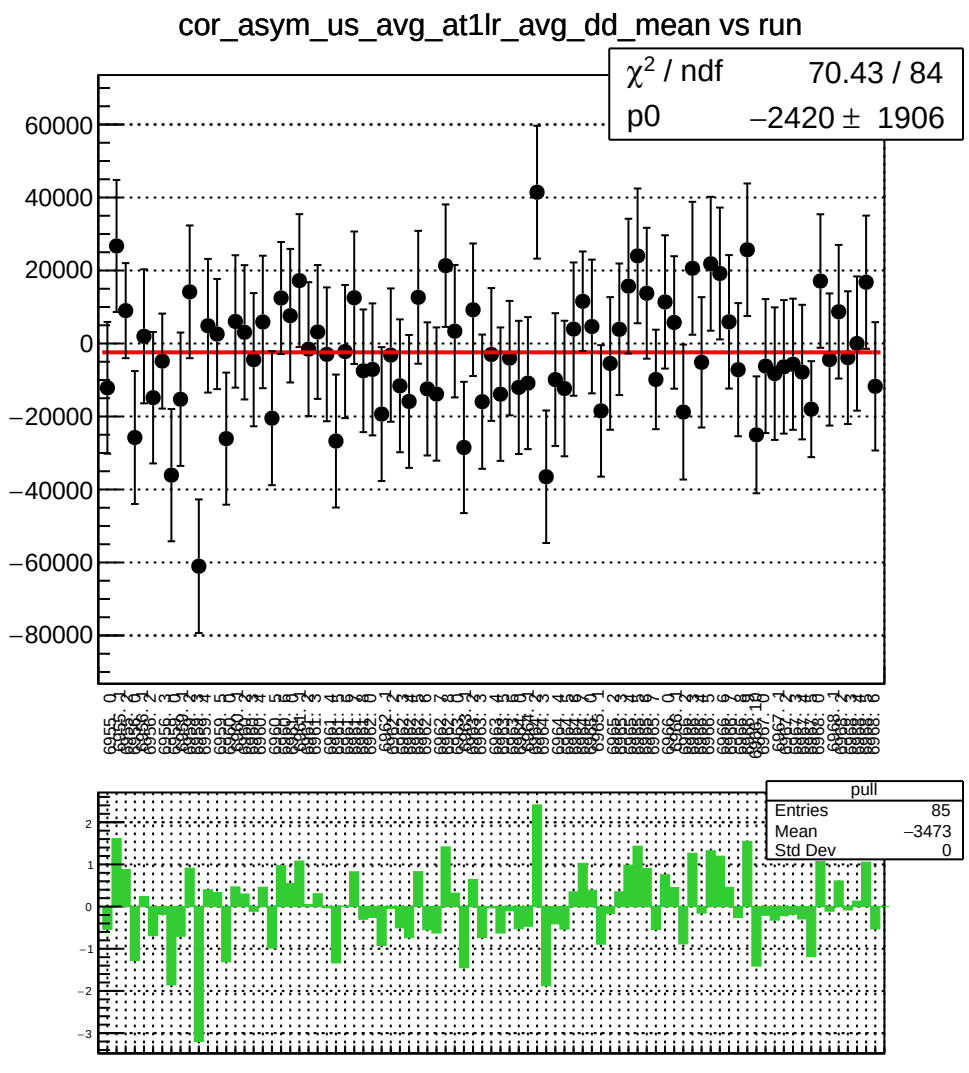

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 70.42 / 84
p0 −2420 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −3474
Std Dev 0
2
1
0
−1
−2
−3

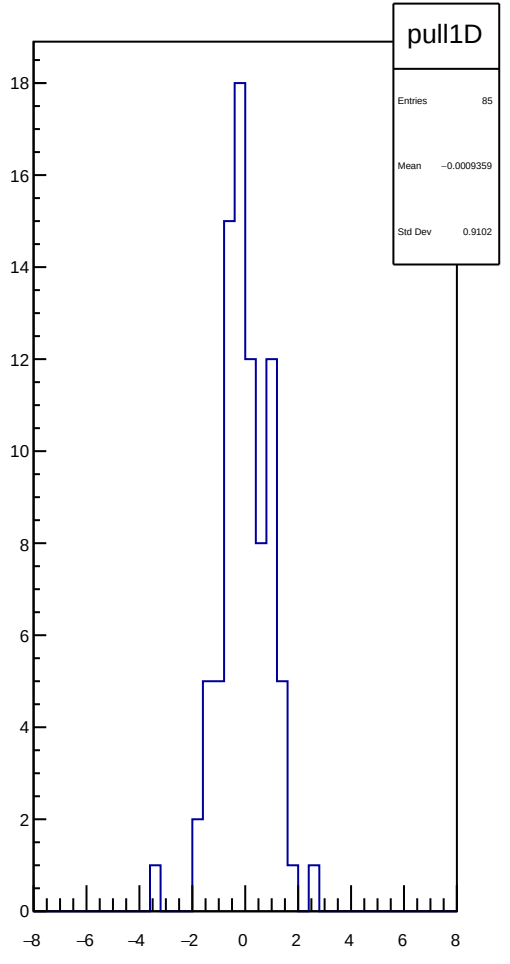

pull1D
Entries 85
Mean −0.0009357
Std Dev 0.9102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

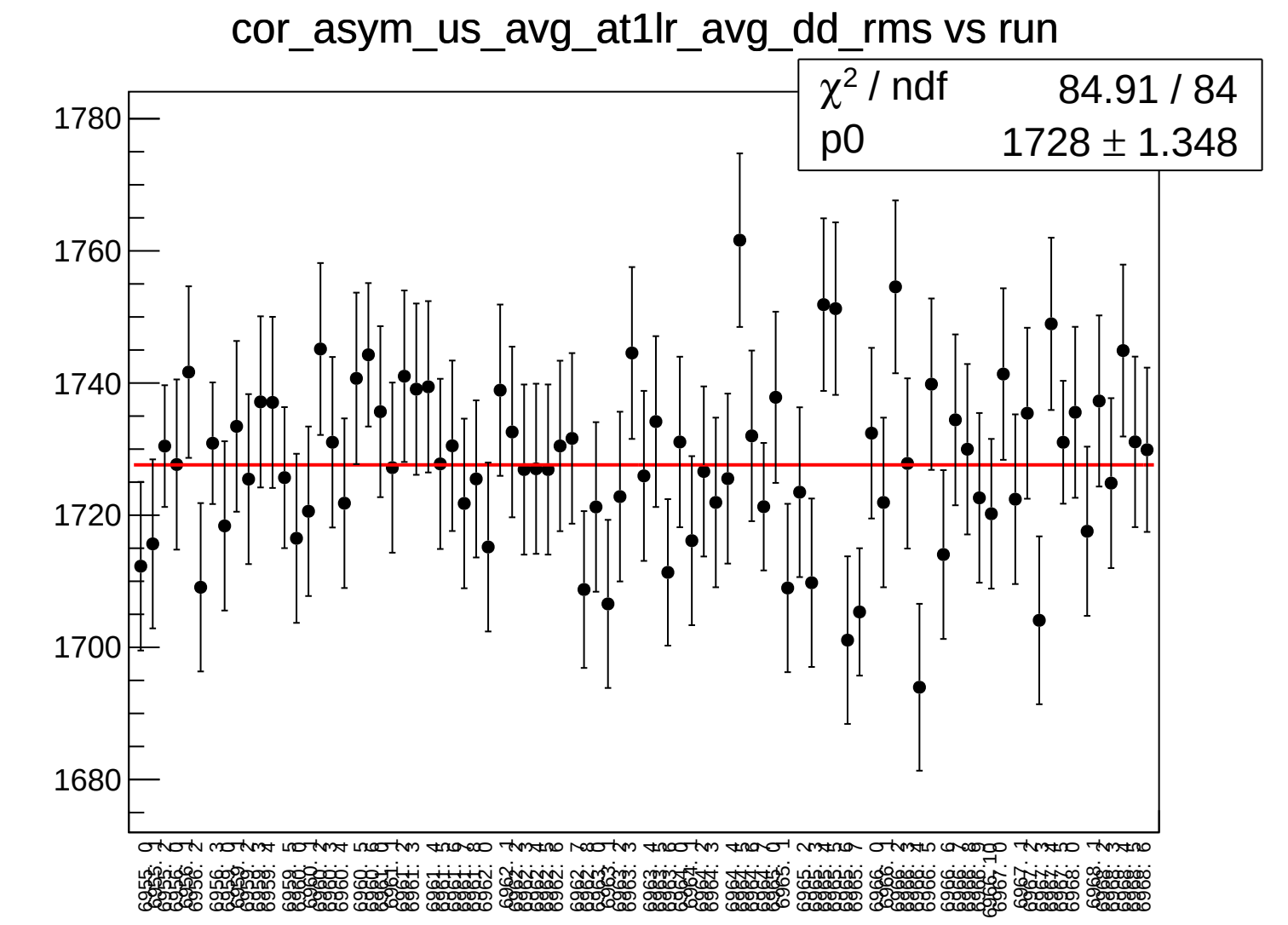

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 84.91 / 84
p0 1728 ± 1.348
1780
1760
1740
1720
1700
1680

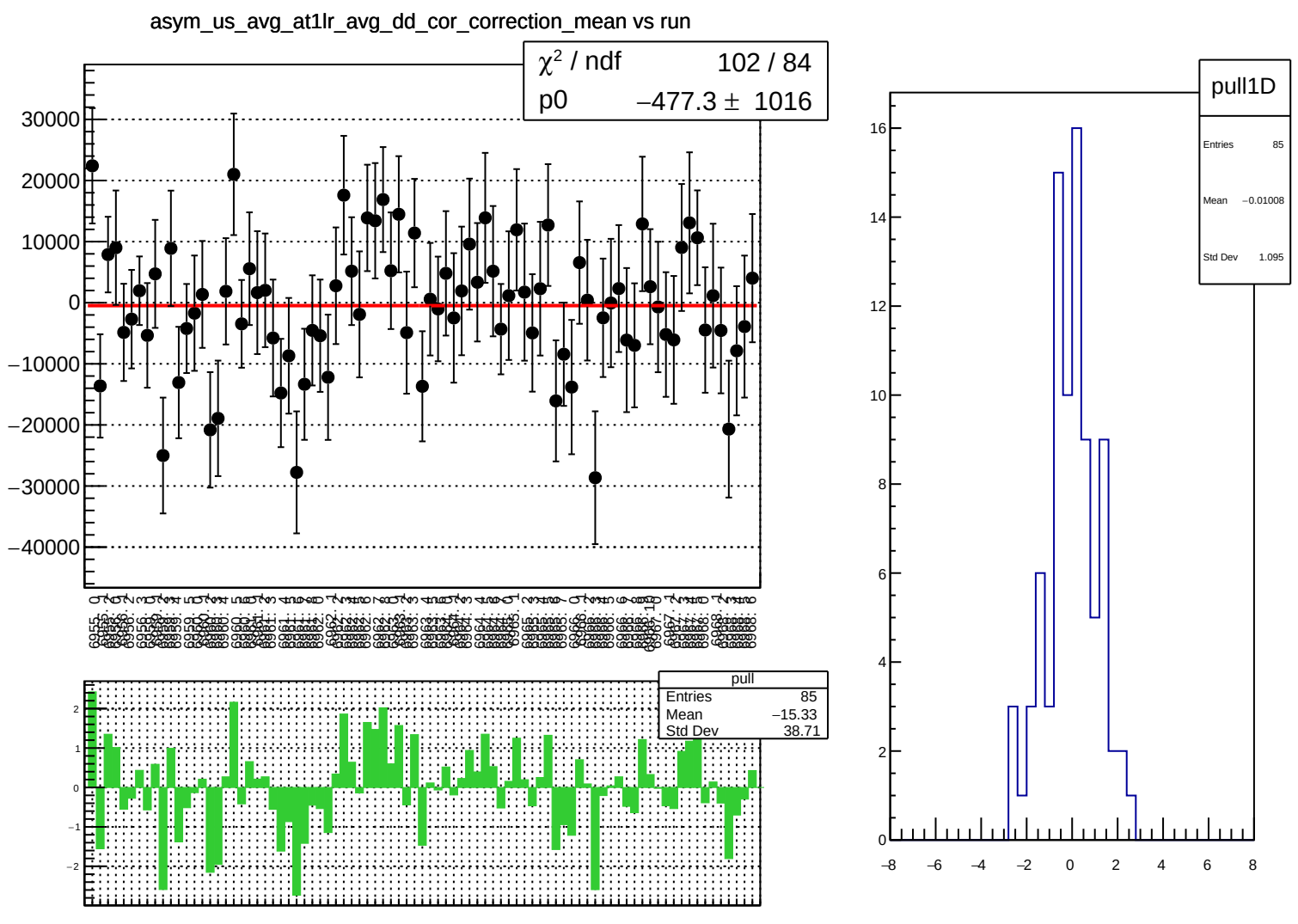

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 102 / 84
p0 −477.6 ± 1016
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean −15.32
Std Dev 38.72
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01008
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

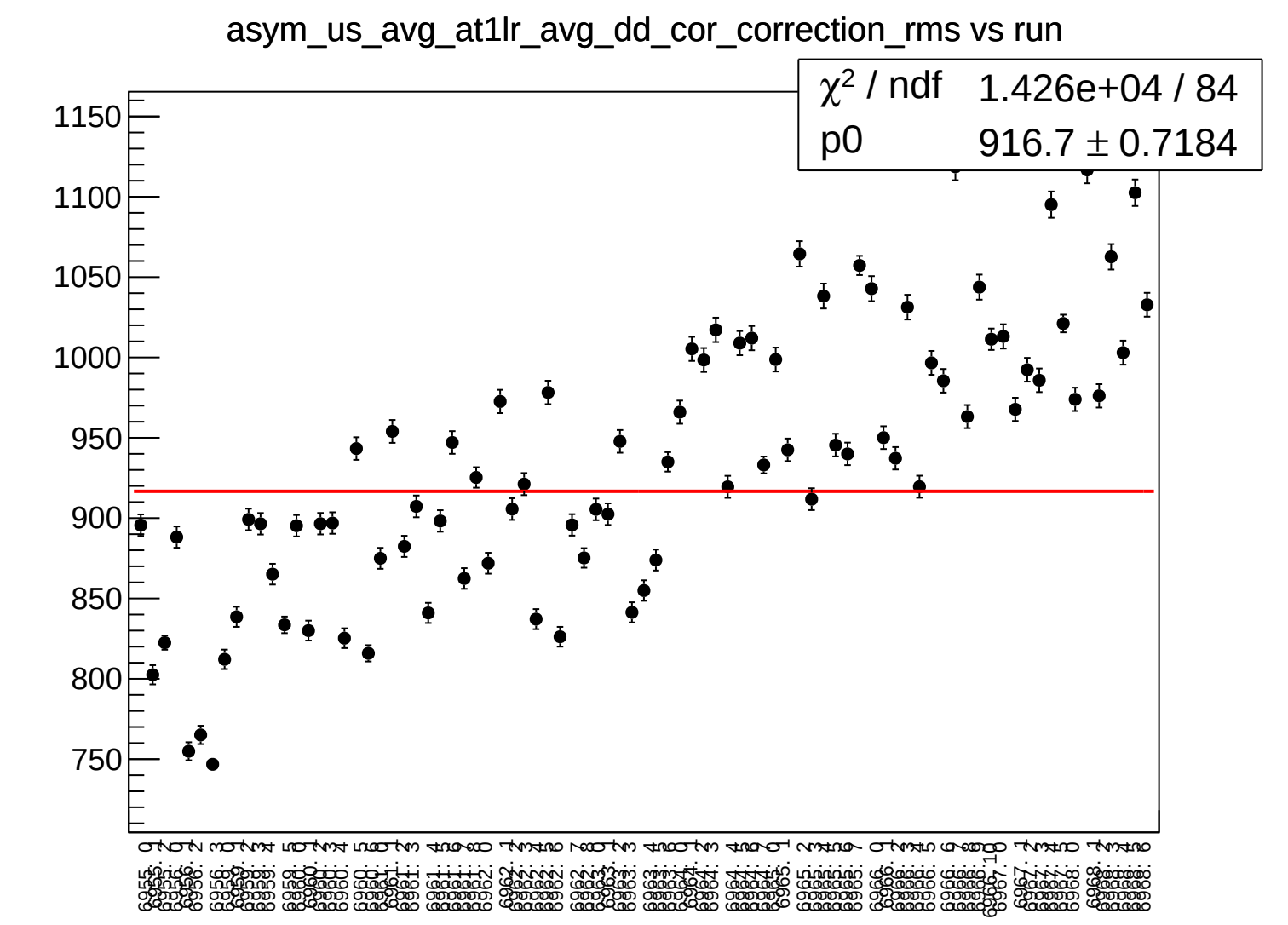

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.426e+04 / 84
p0 916.7 ± 0.7184
1150
1100
1050
1000
950
900
850
800
750

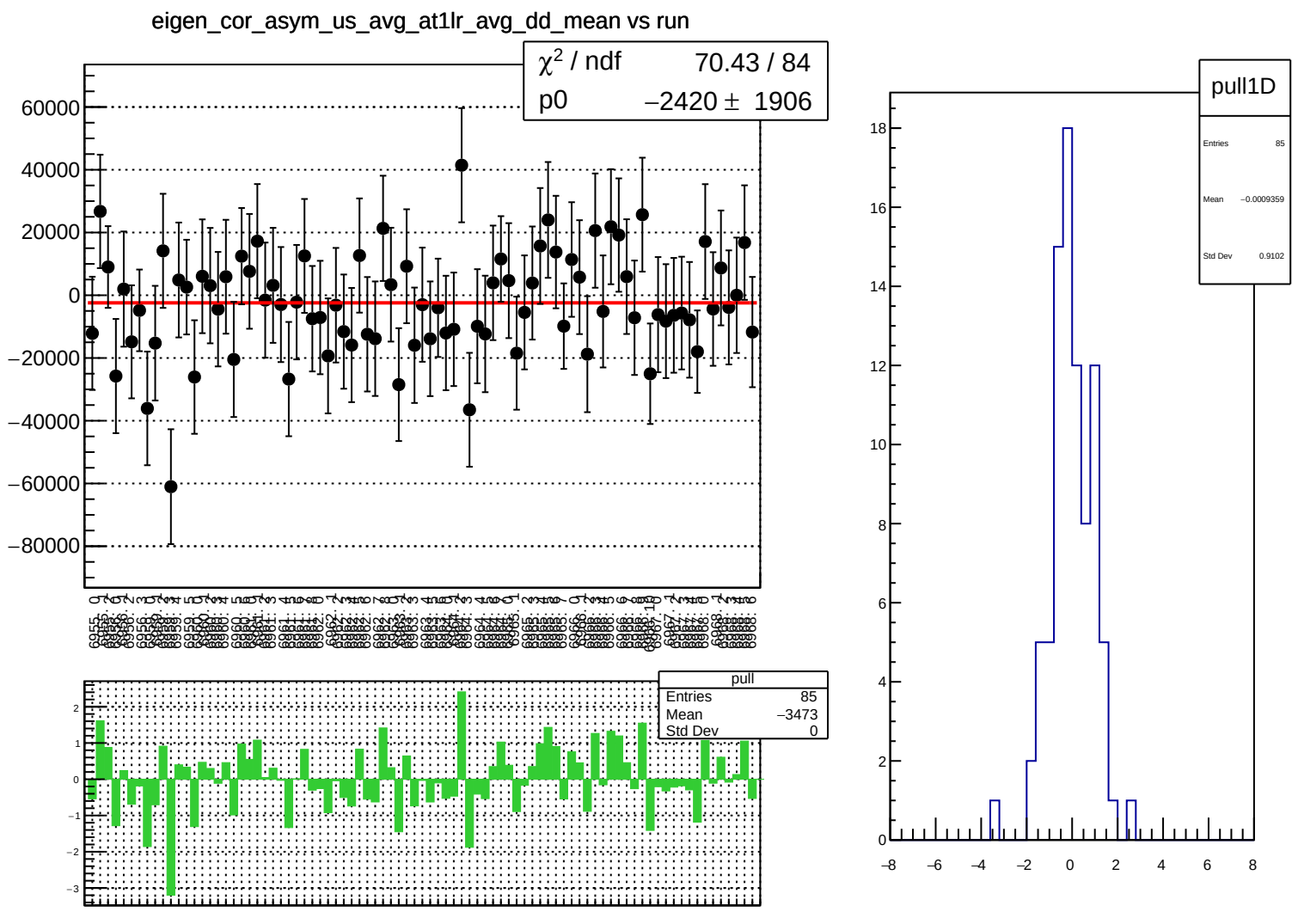

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 70.43 / 84
p0 −2420 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −3473
Std Dev 0
2
1
0
−1
−2
−3

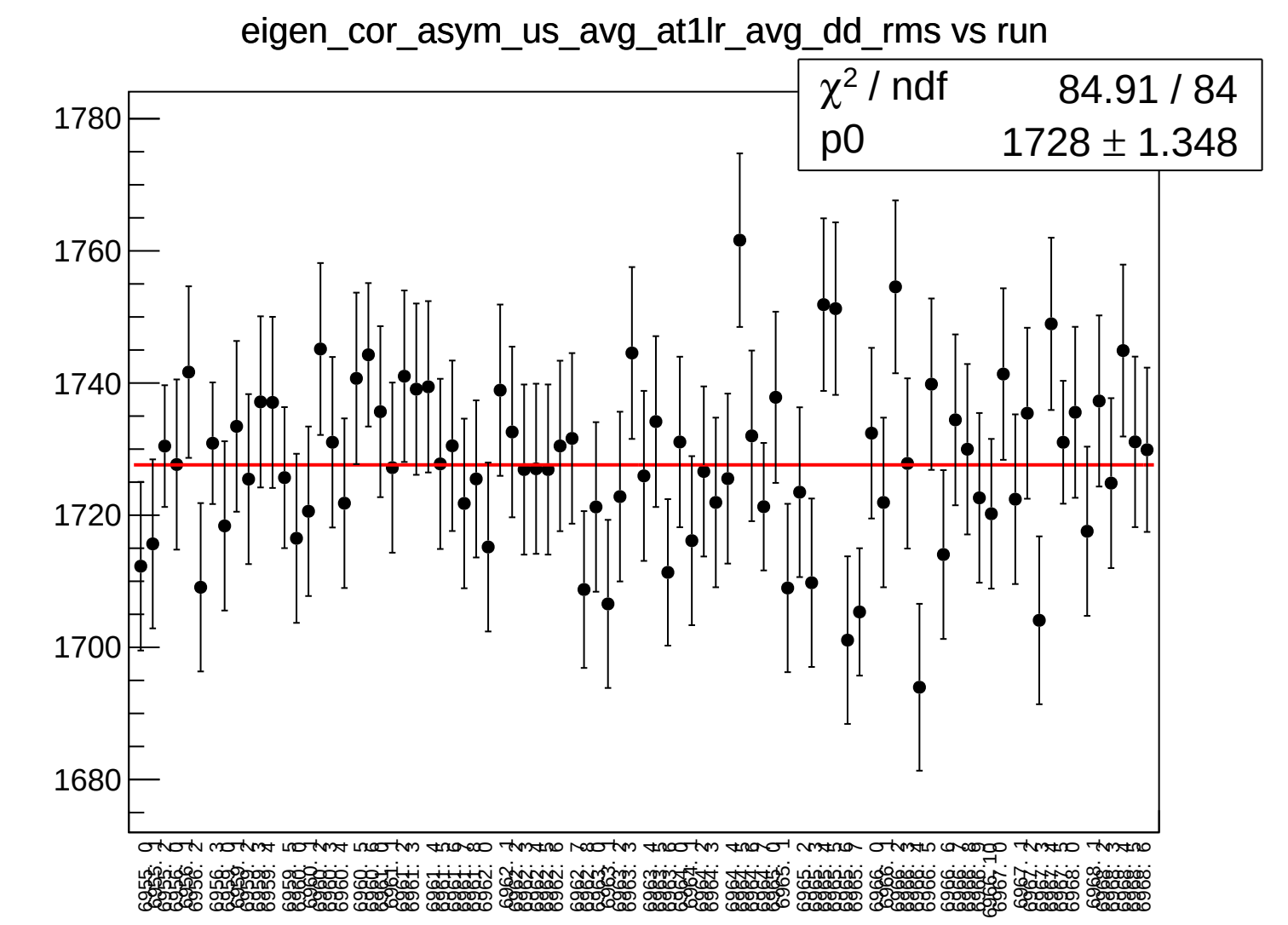

pull1D
Entries 85
Mean −0.0009359
Std Dev 0.9102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

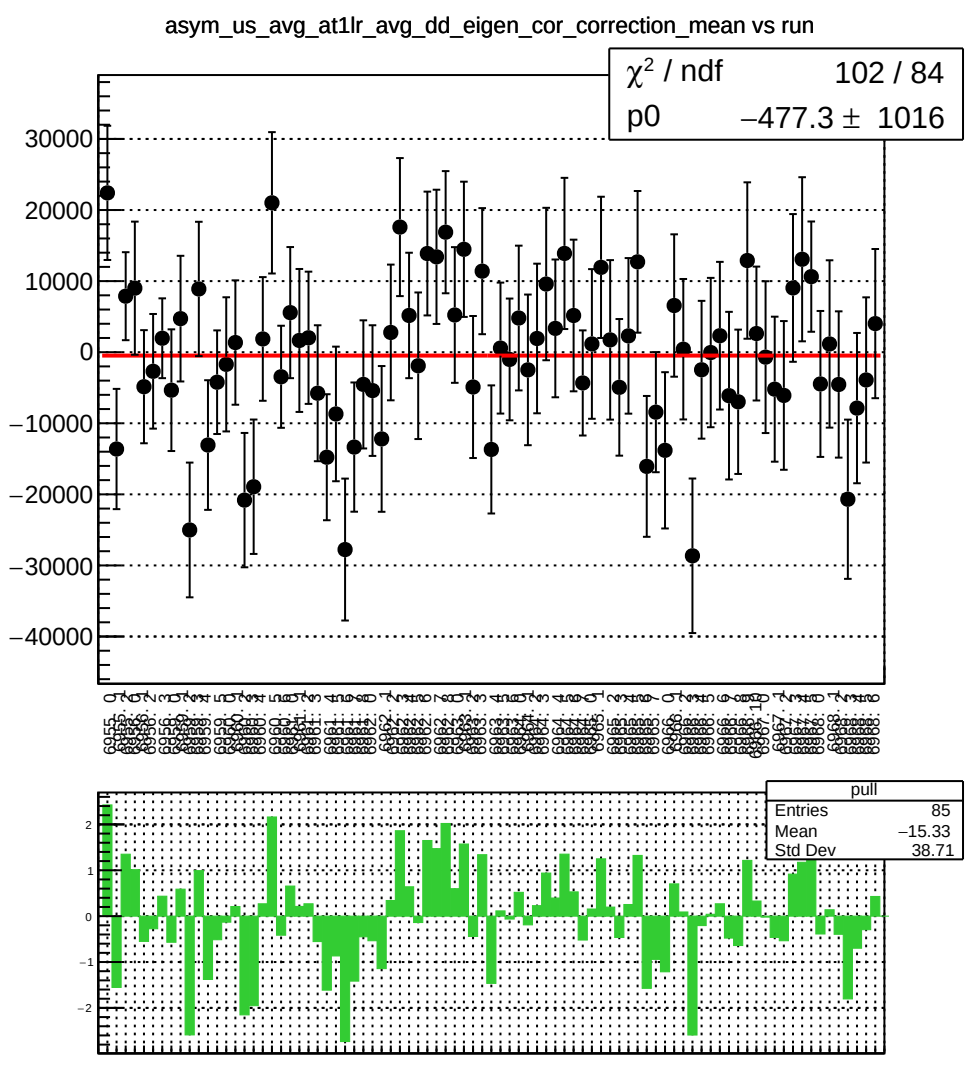

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 84.91 / 84
p0 1728 ± 1.348
1780
1760
1740
1720
1700
1680

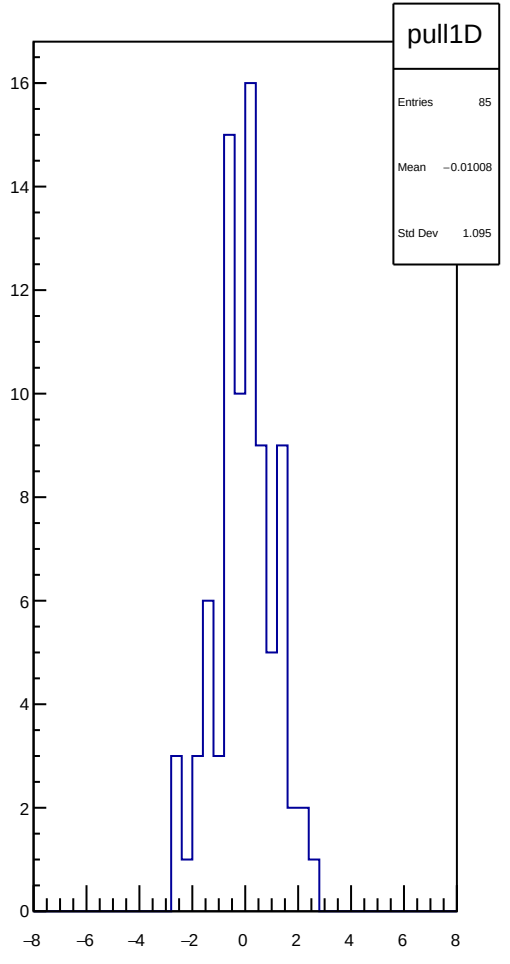

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 102 / 84
p0 −477.3 ± 1016
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean −15.33
Std Dev 38.71
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01008
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

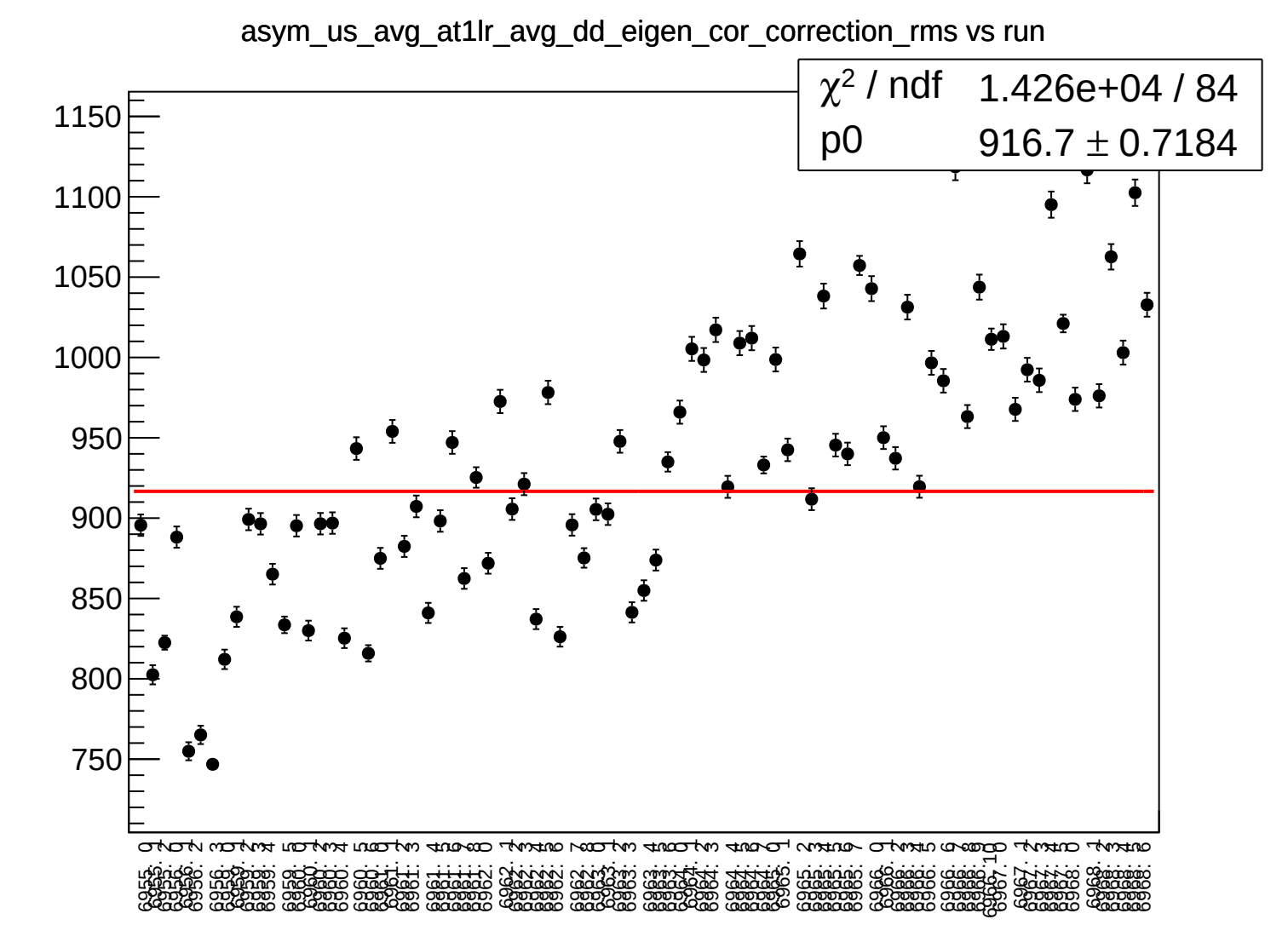

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.426e+04 / 84
p0 916.7 ± 0.7184
1150
1100
1050
1000
950
900
850
800
750

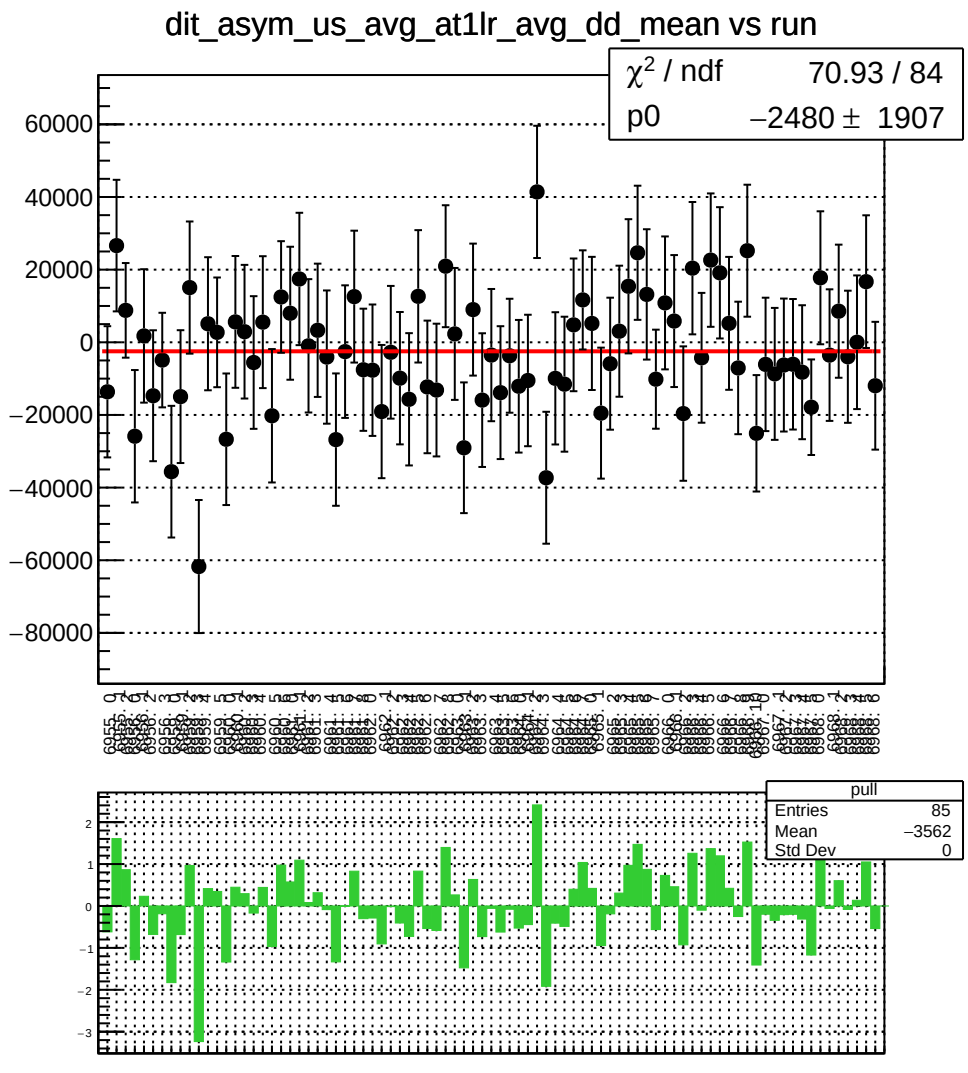

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 70.43 / 84
p0 −2420 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −3473
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.0009359
Std Dev 0.9102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

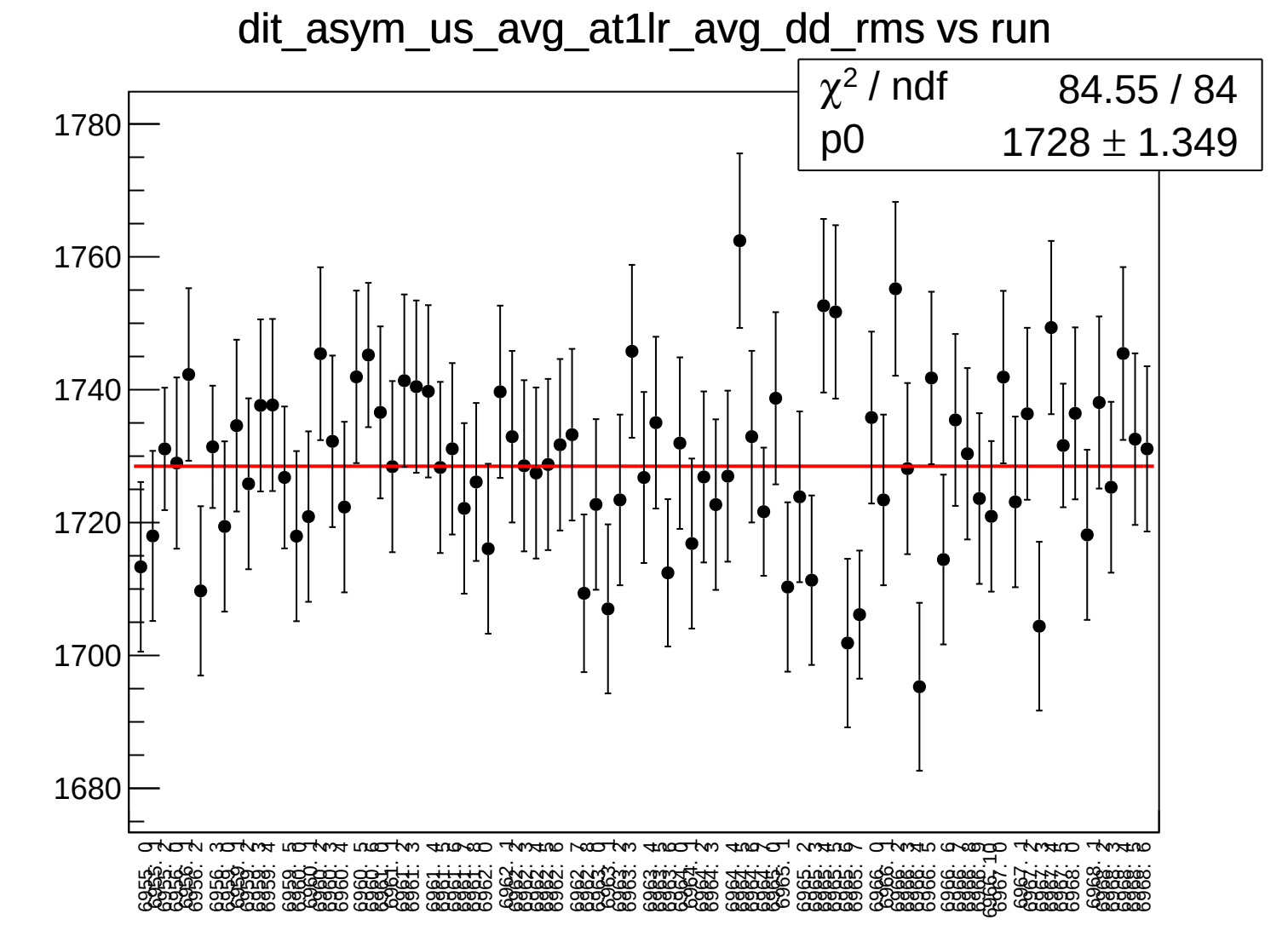

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 84.91 / 84
p0 1728 ± 1.348
1780
1760
1740
1720
1700
1680

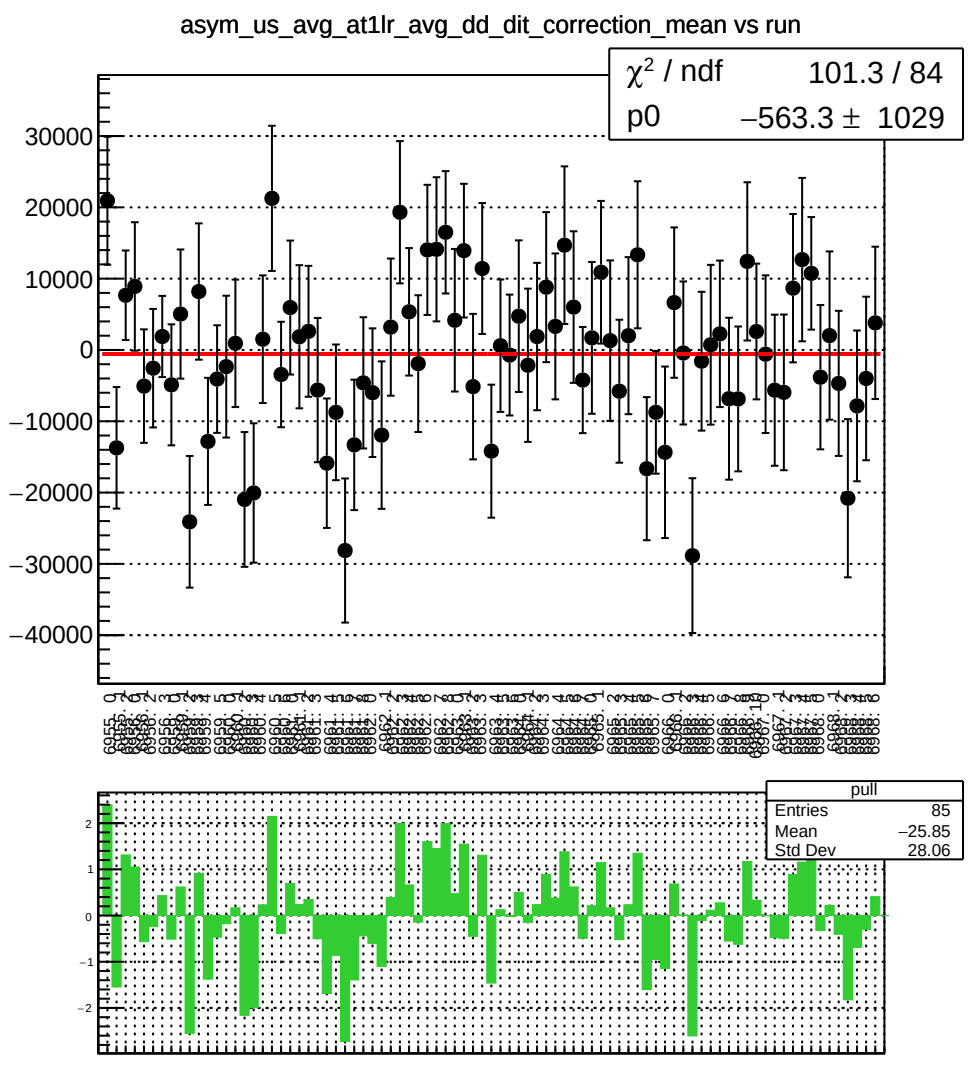

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 102 / 84
p0 −477.3 ± 1016
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean −15.33
Std Dev 38.71
2
1
0
−1
−2

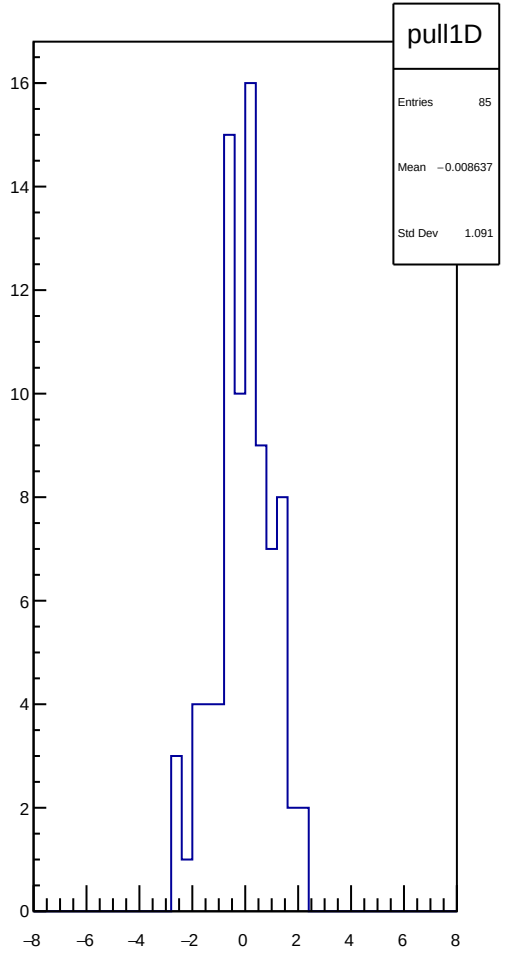

pull1D
Entries 85
Mean −0.01008
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

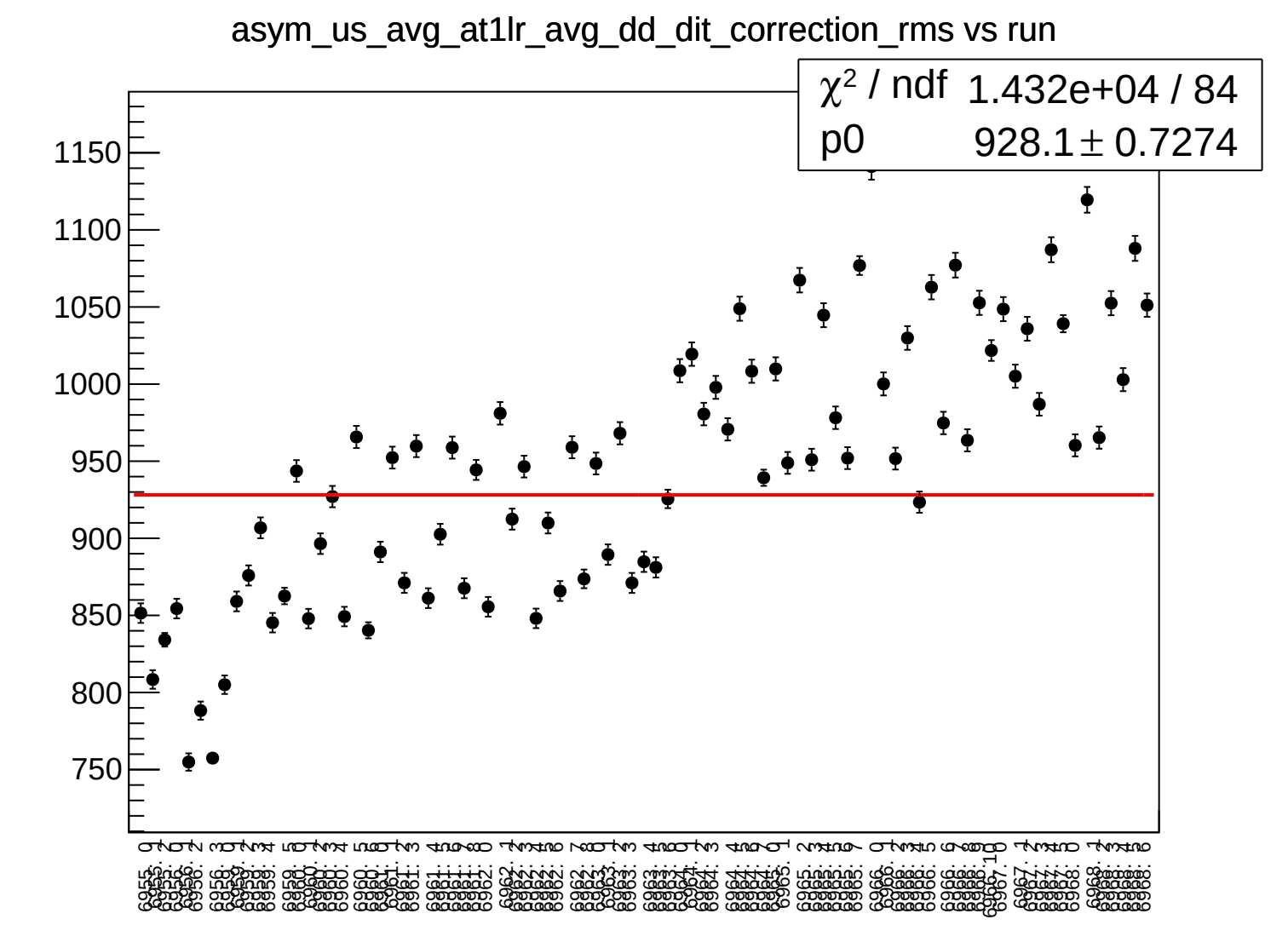

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.426e+04 / 84
p0 916.7 ± 0.7184
1150
1100
1050
1000
950
900
850
800
750

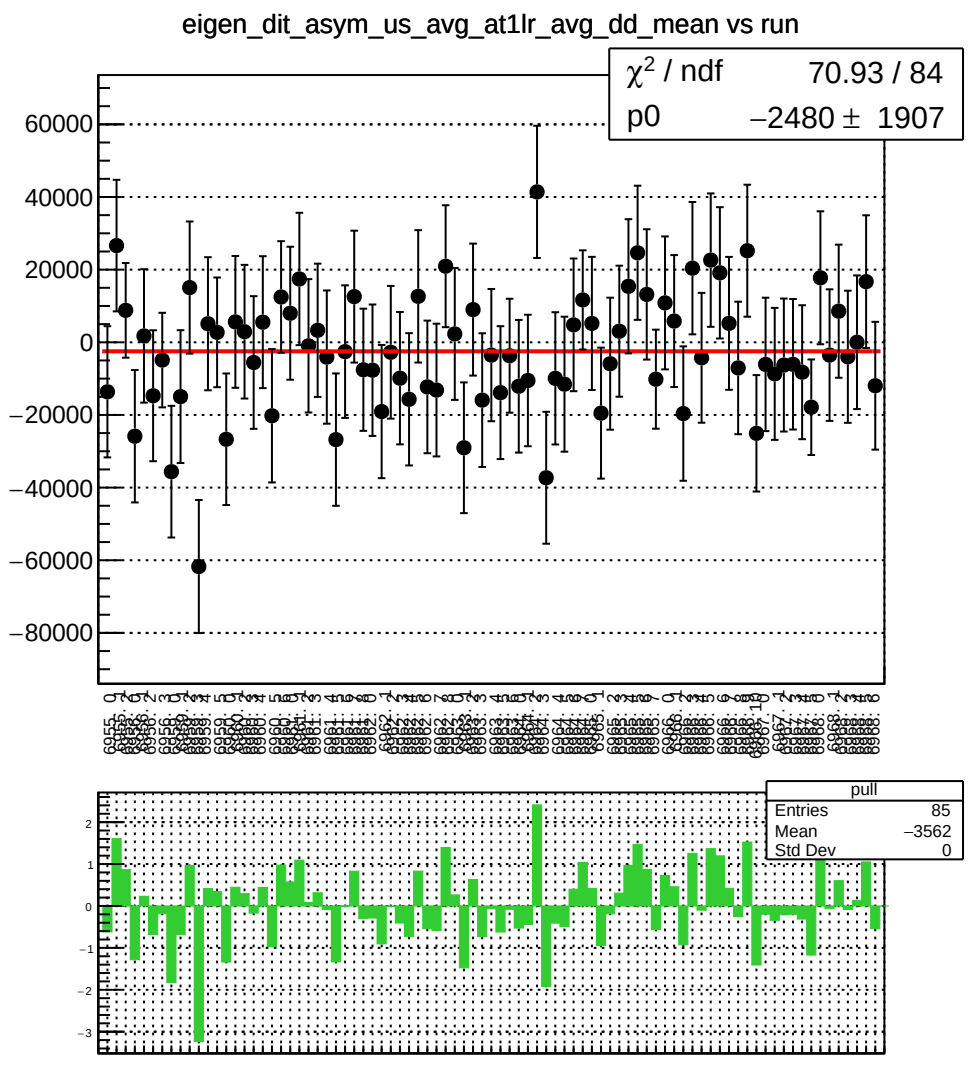

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 70.93 / 84
p0 −2480 ± 1907
pull
Entries 85
Mean −3562
Std Dev 0
pull1D
Entries 85
Mean −0.0009217
Std Dev 0.9135

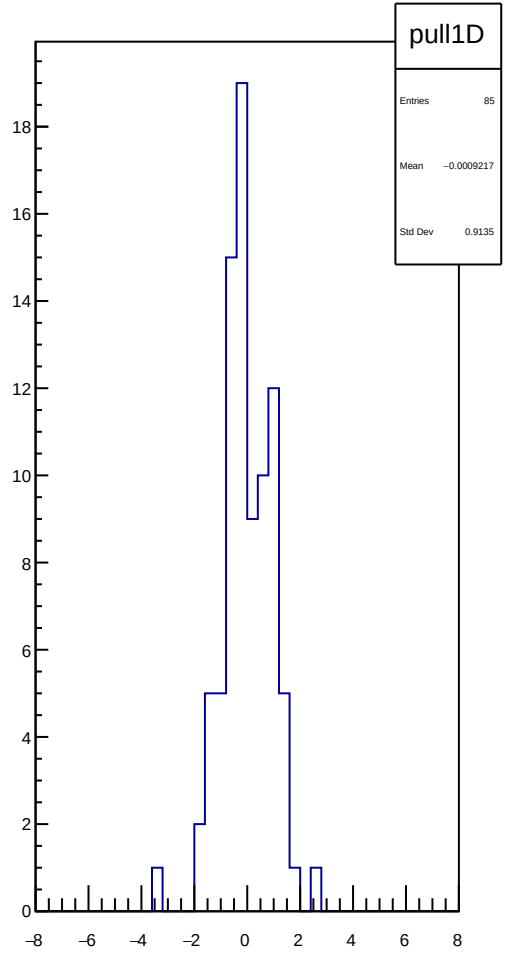

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 84.55 / 84
p0 1728 ± 1.349
1780
1760
1740
1720
1700
1680

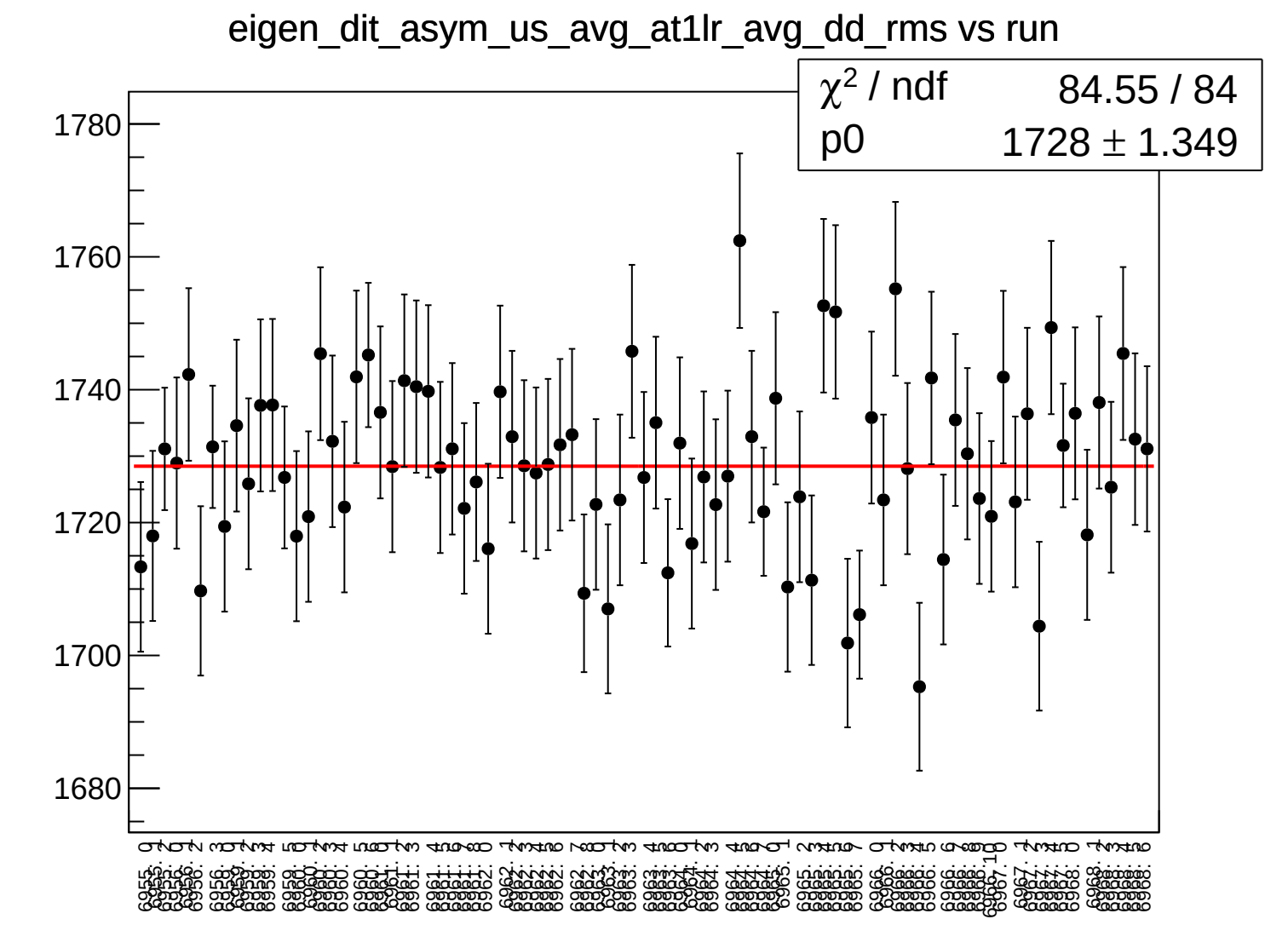

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 101.3 / 84
p0 −563.3 ± 1029
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean −25.85
Std Dev 28.06
2
1
0
−1
−2

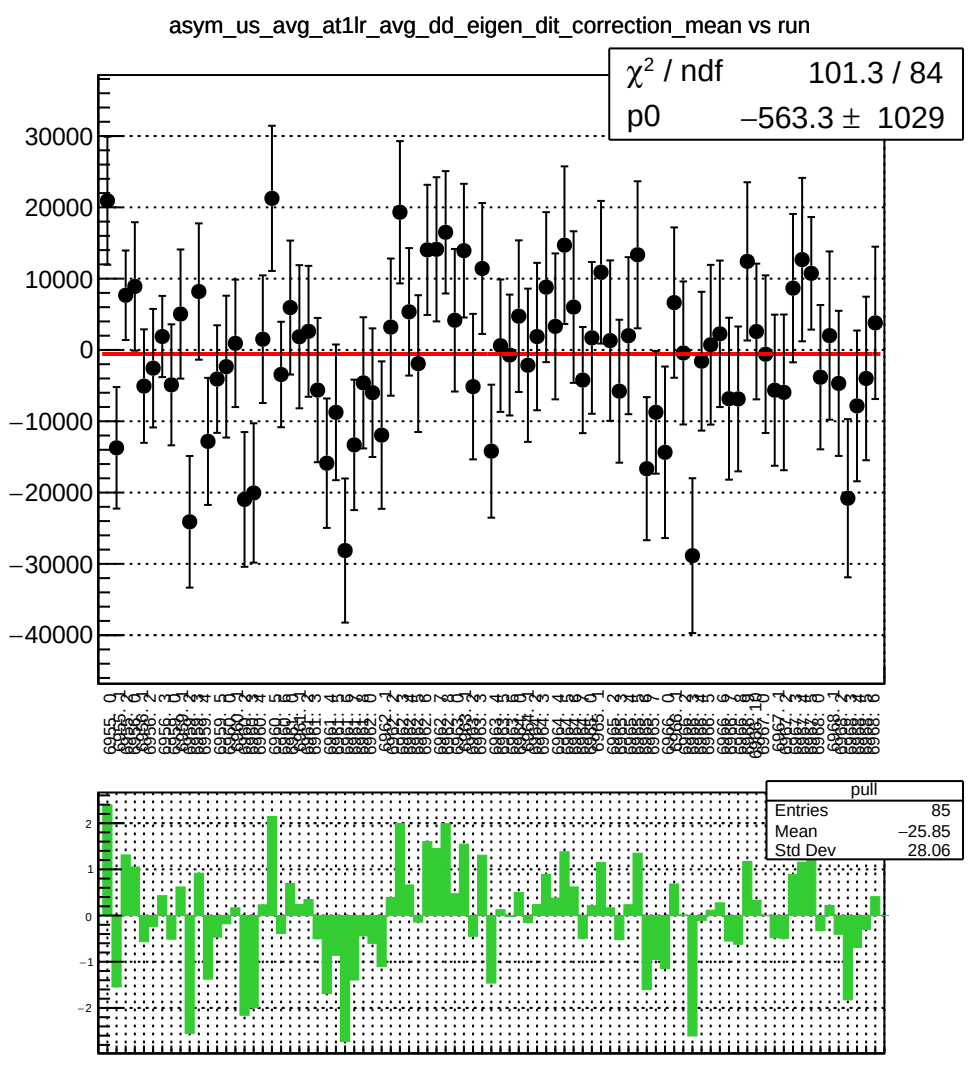

pull1D
Entries 85
Mean −0.008637
Std Dev 1.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

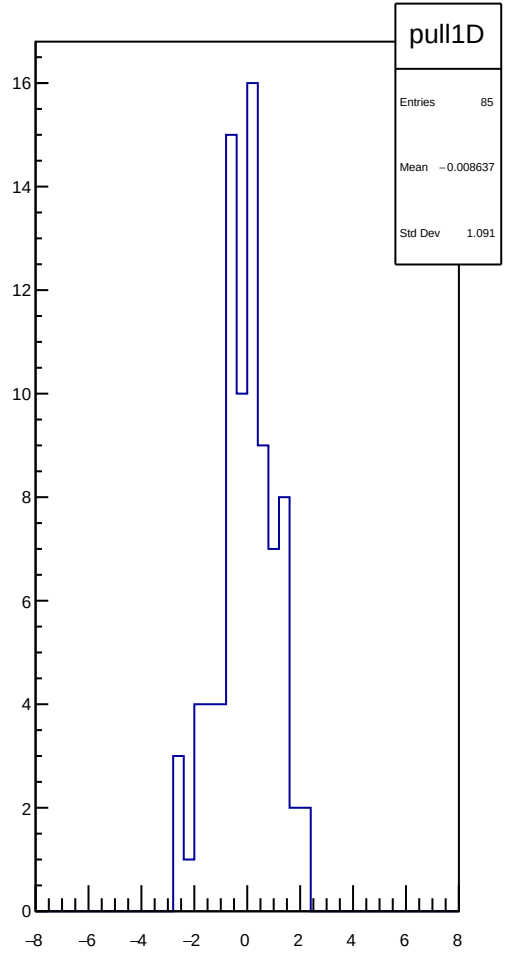

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.432e+04 / 84
p0 928.1 ± 0.7274
1150
1100
1050
1000
950
900
850
800
750

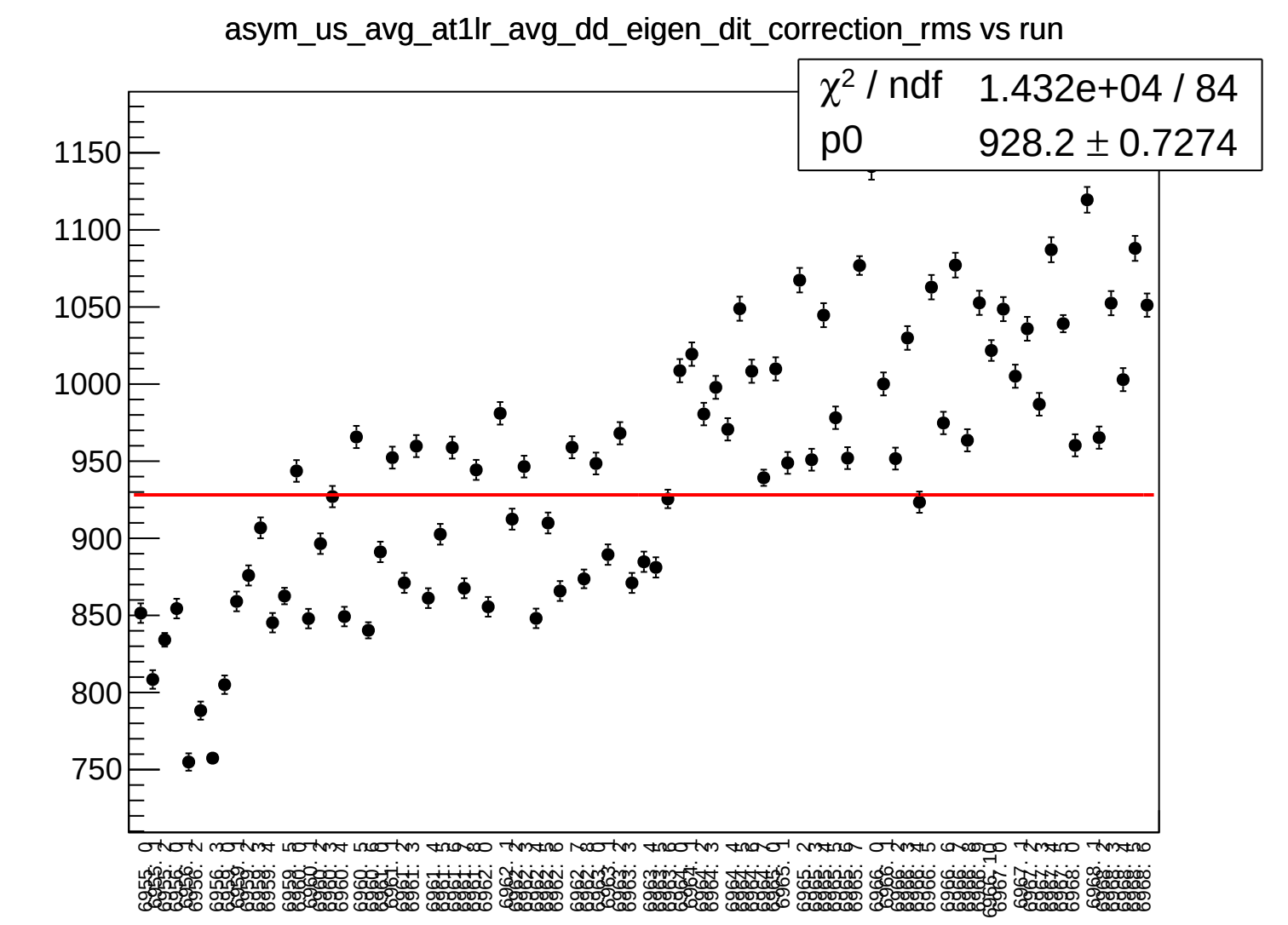

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 70.93 / 84
p0 −2480 ± 1907
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −3562
Std Dev 0
2
1
0
−1
−2
−3

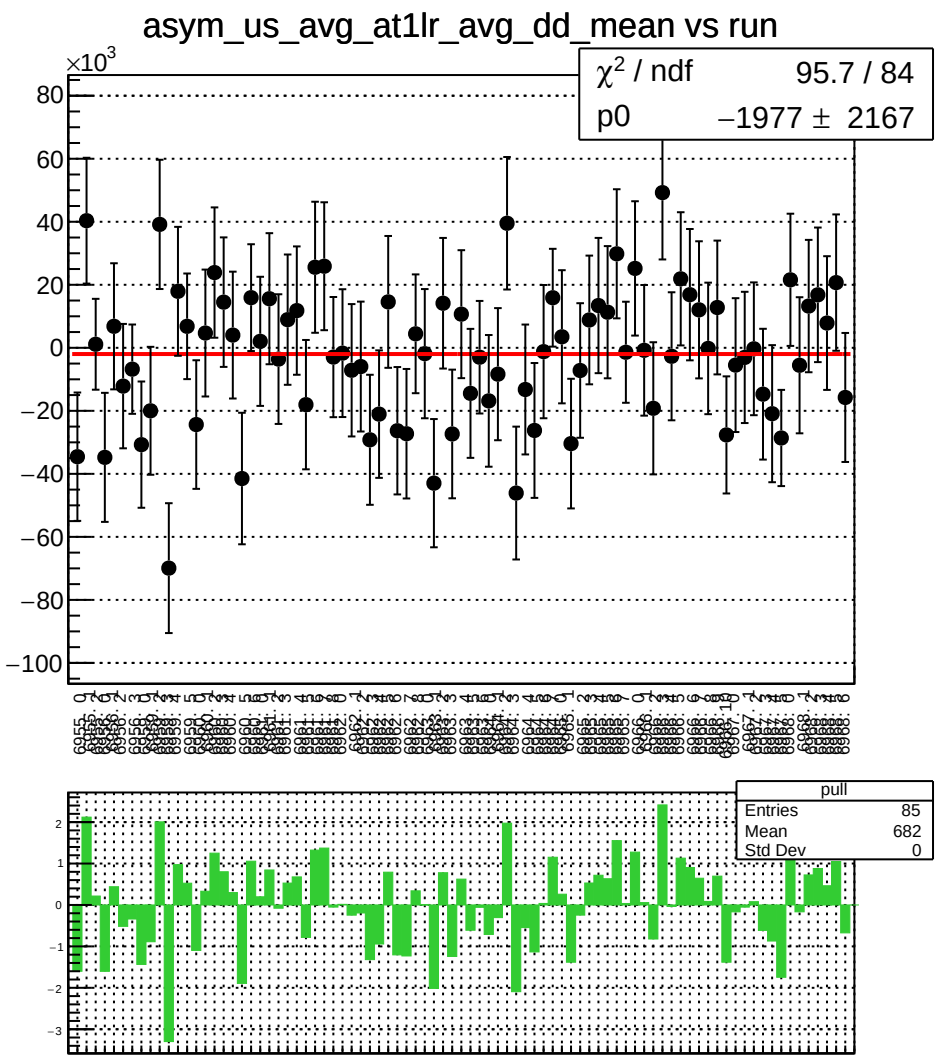

pull1D
Entries 85
Mean −0.0009217
Std Dev 0.9135
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

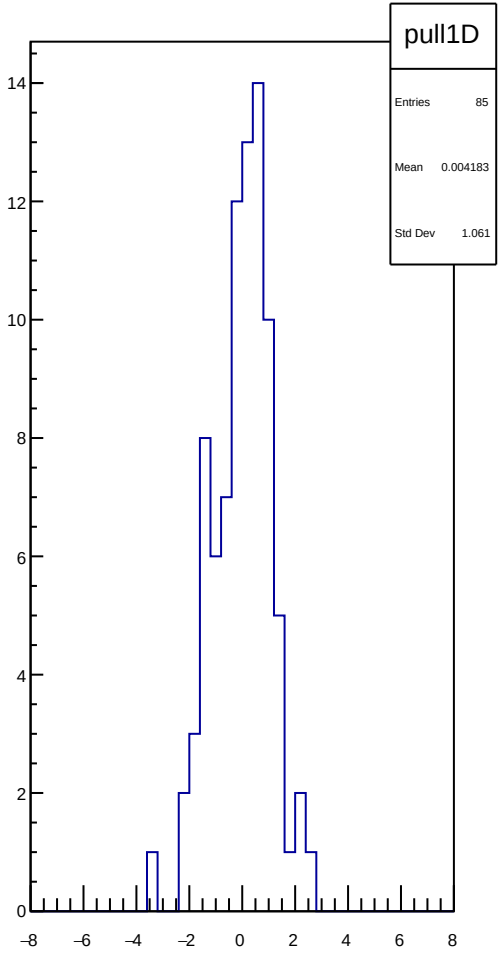

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
$\chi^2$ / ndf 84.55 / 84
p0 1728 ± 1.349
1780
1760
1740
1720
1700
1680

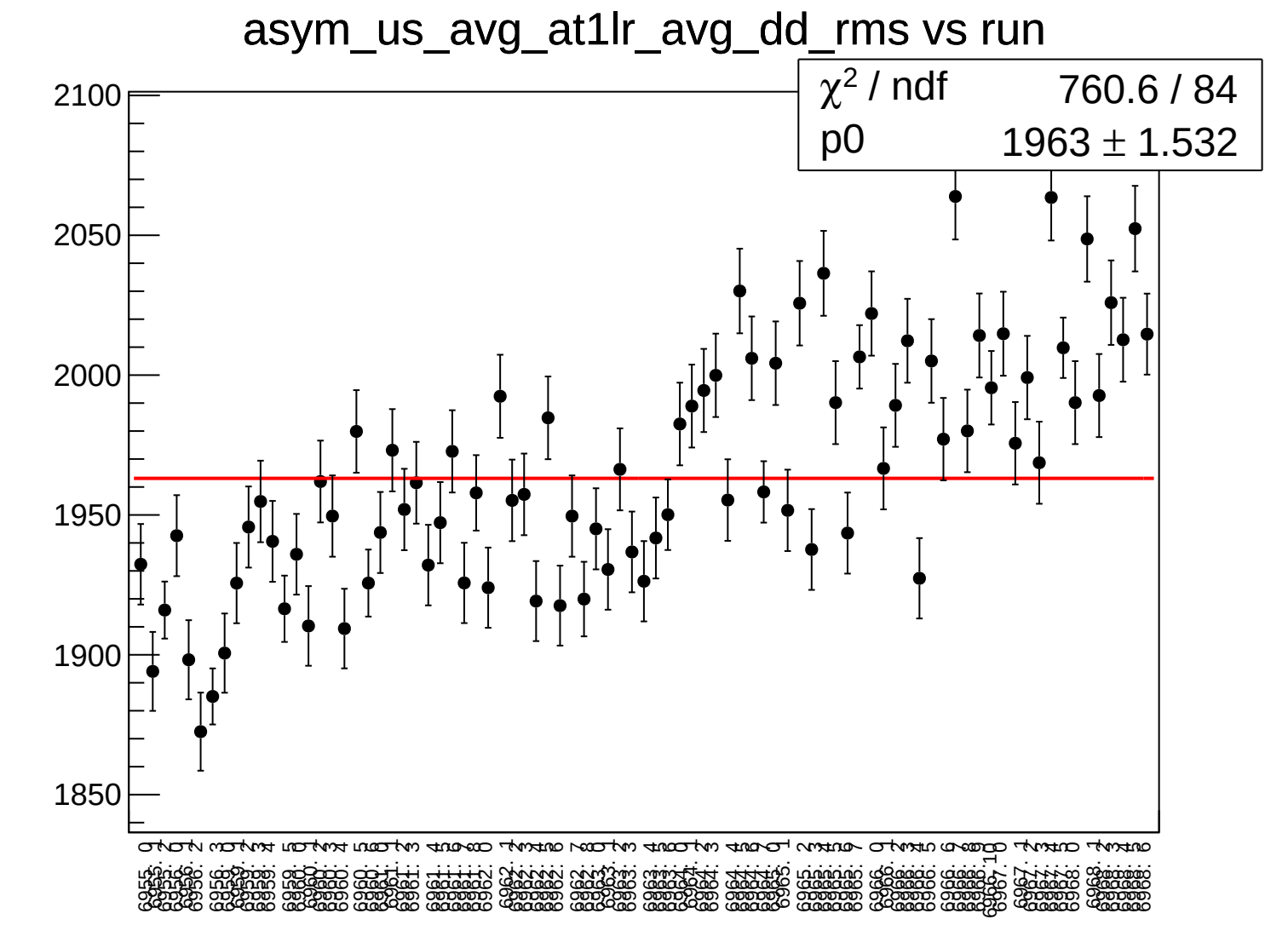

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.3 / 84
p0 −563.3 ± 1029
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean −25.85
Std Dev 28.06
2
1
0
−1
−2

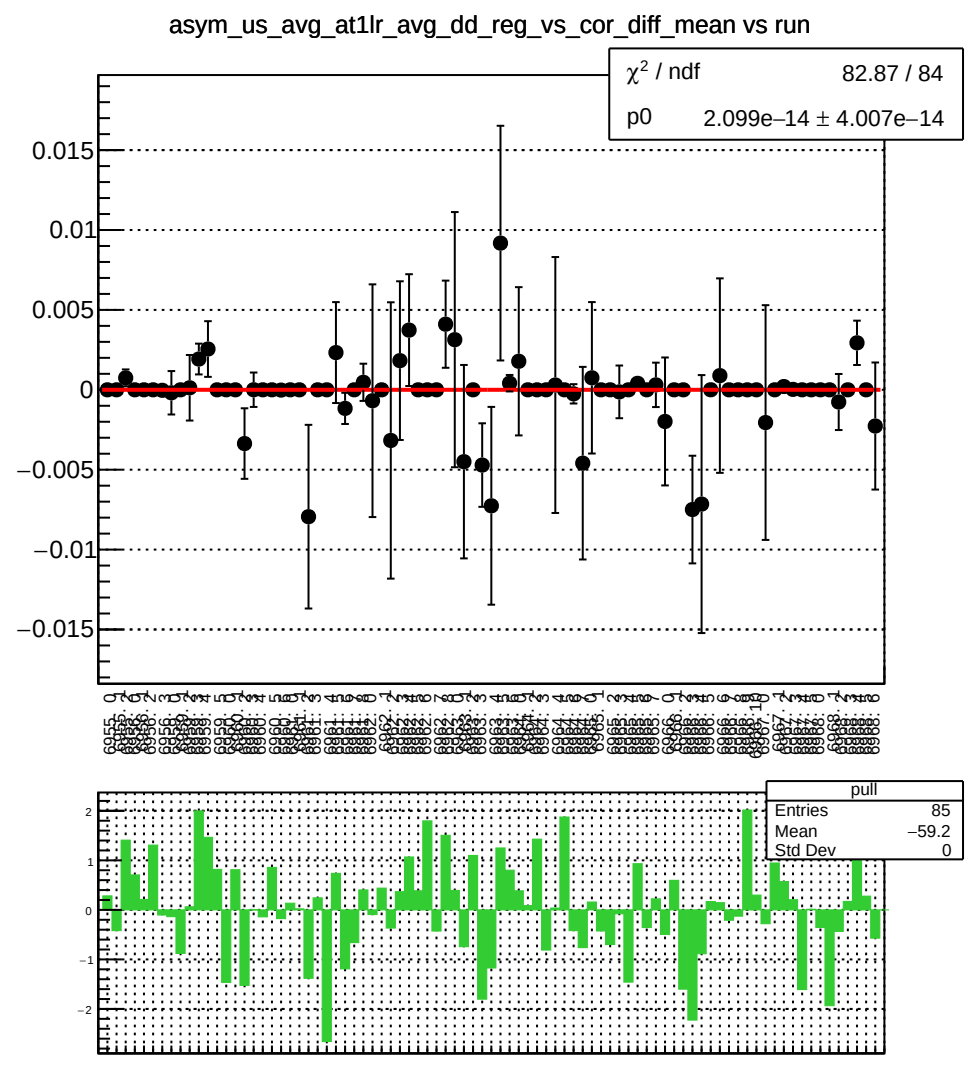

pull1D
Entries 85
Mean −0.008637
Std Dev 1.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

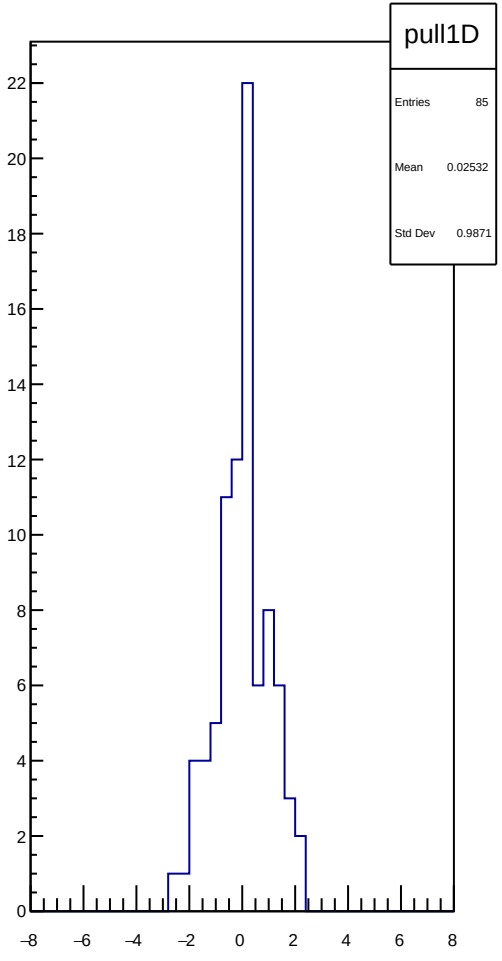

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.432e+04 / 84
p0 928.2 ± 0.7274
1150
1100
1050
1000
950
900
850
800
750

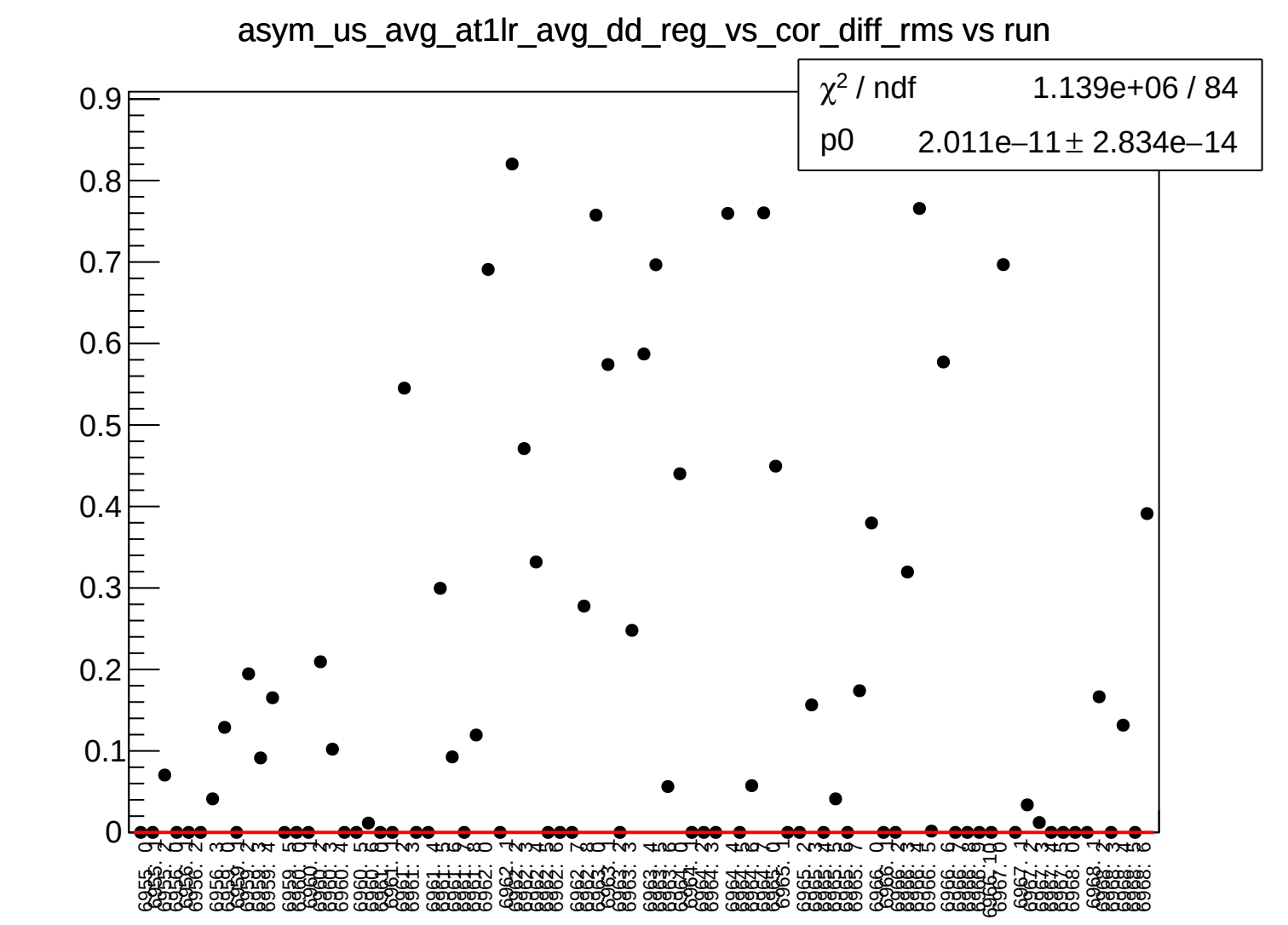

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 95.7 / 84
p0 −1977 ± 2167
pull
Entries 85
Mean 682
Std Dev 0

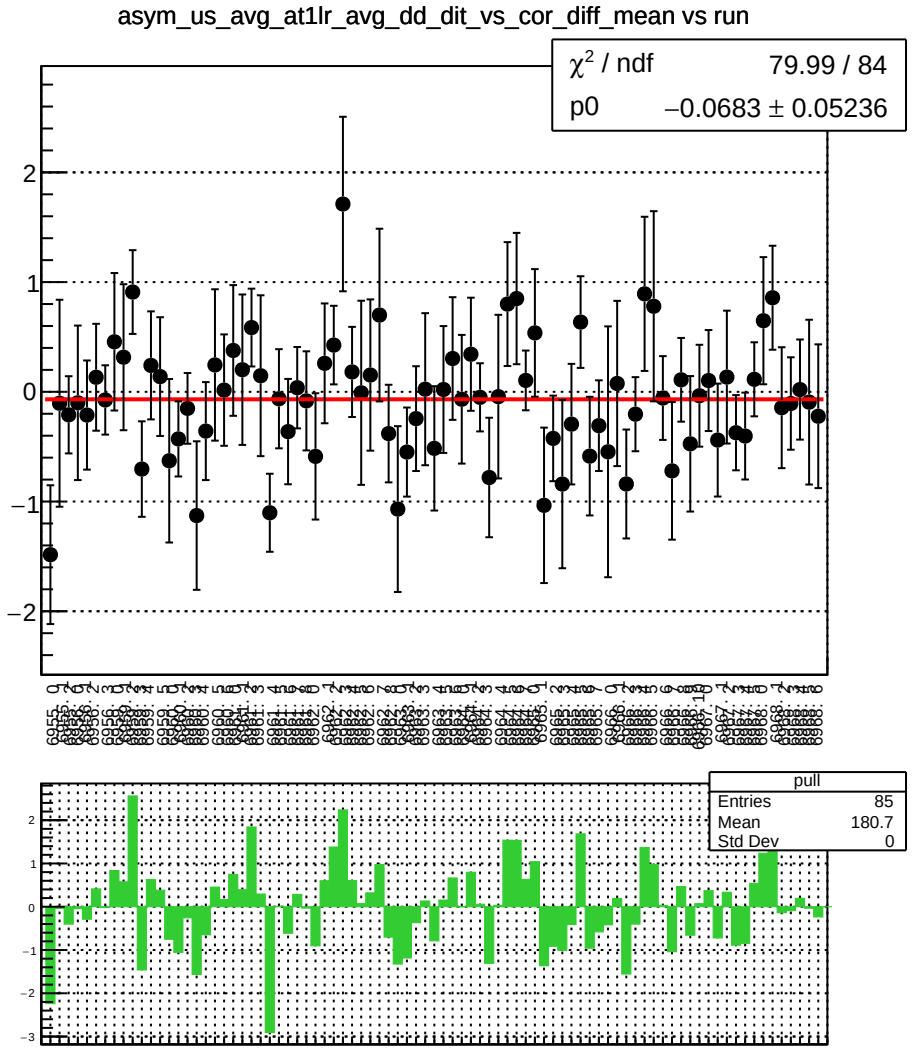

pull1D
Entries 85
Mean 0.004183
Std Dev 1.061

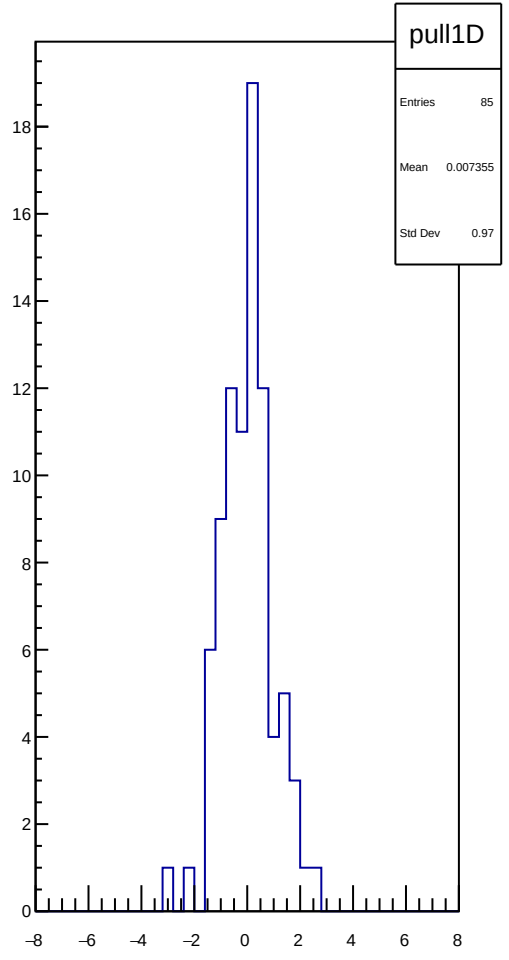

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 760.6 / 84
p0 1963 ± 1.532
2100
2050
2000
1950
1900
1850

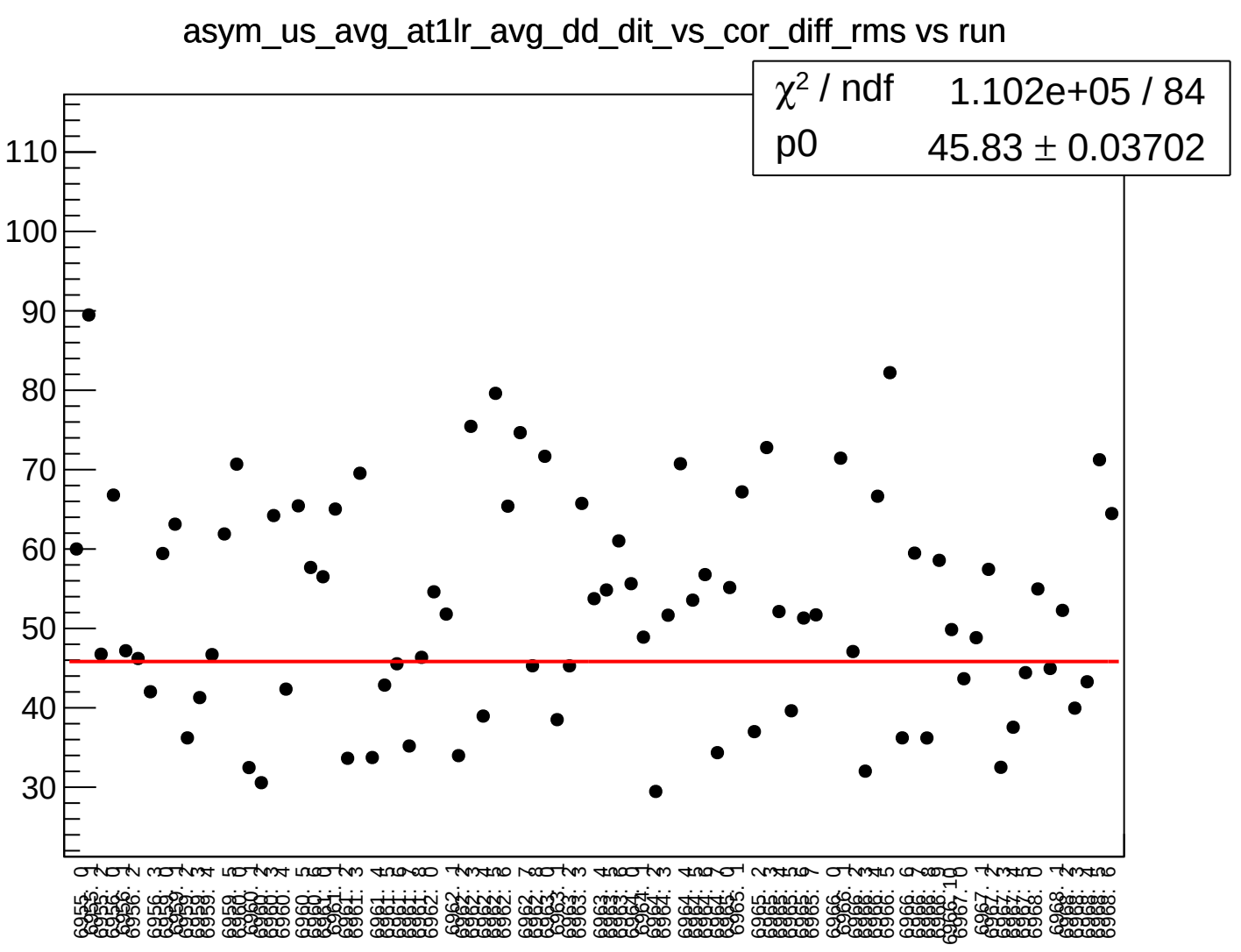

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.87 / 84
p0 2.099e−14 ± 4.007e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 85
Mean −59.2
Std Dev 0
2
1
0
−1
−2

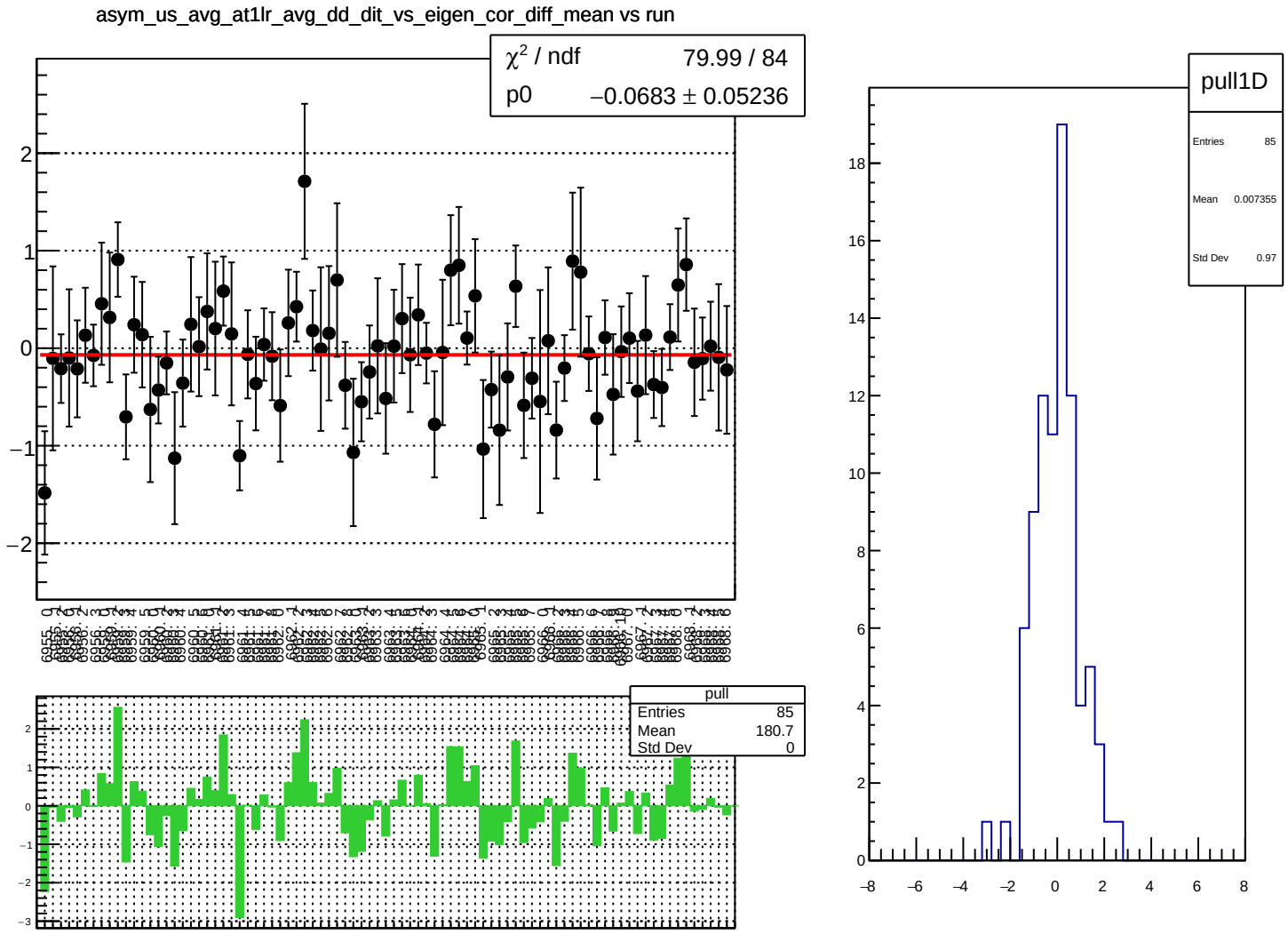

pull1D
Entries 85
Mean 0.02532
Std Dev 0.9871
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

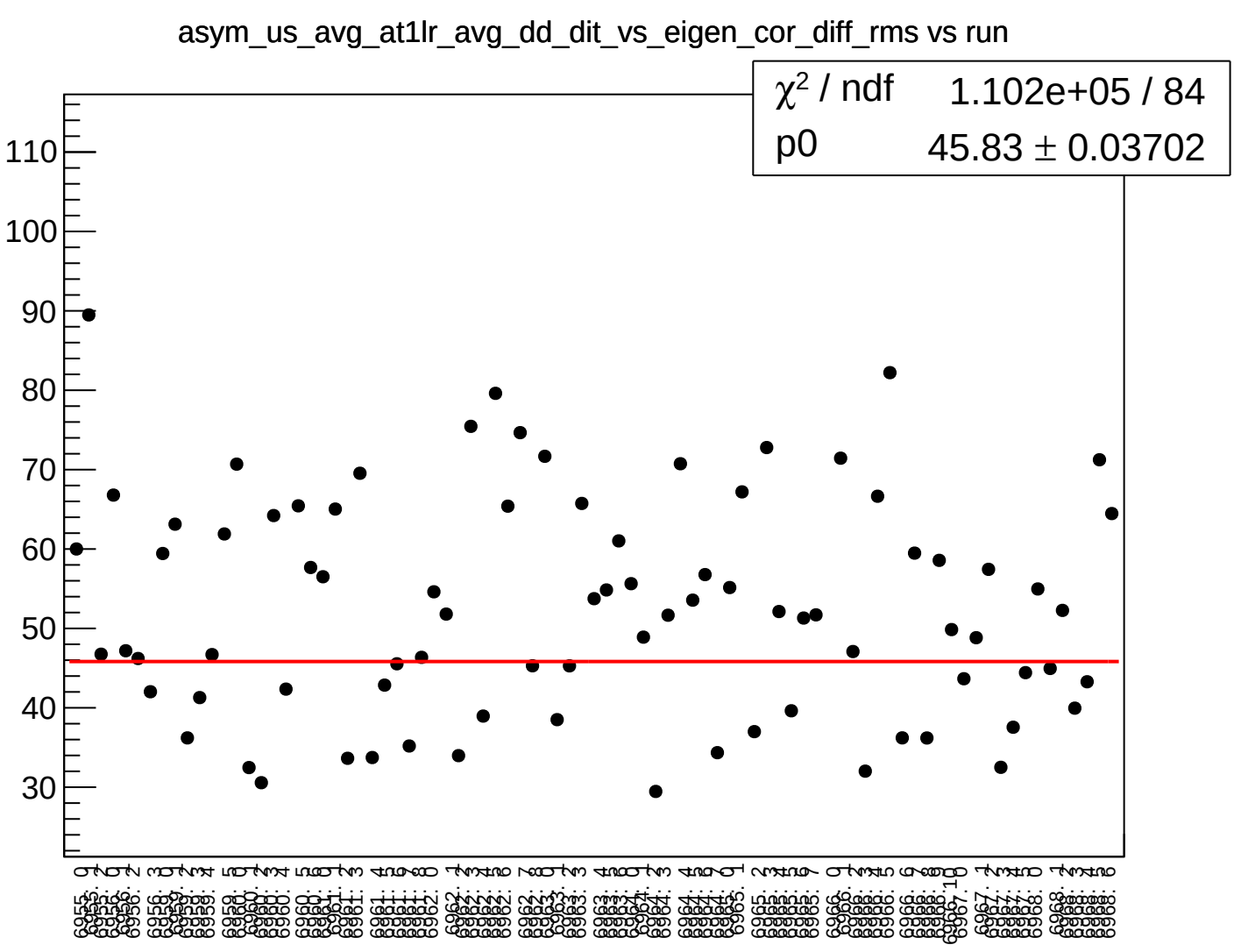

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.139e+06 / 84
p0 2.011e−11 ± 2.834e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

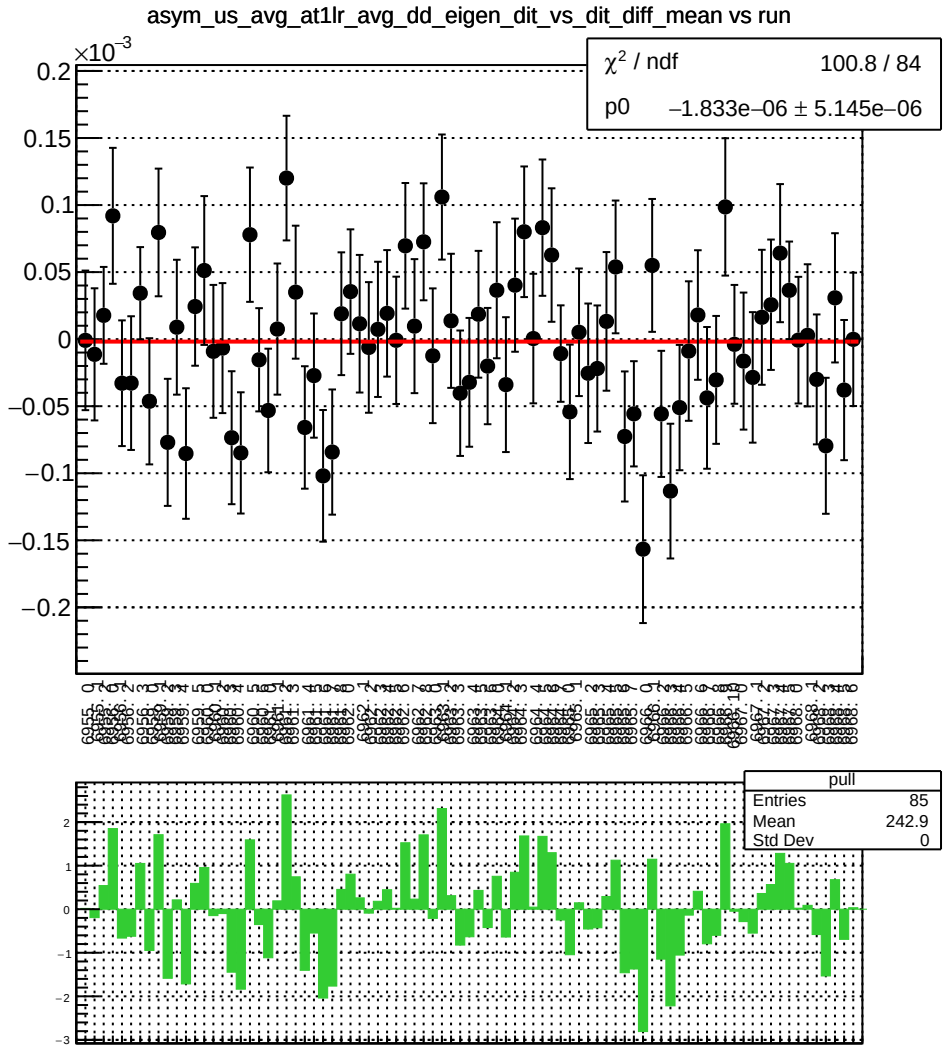

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.99 / 84
p0 −0.0683 ± 0.05236
pull
Entries 85
Mean 180.7
Std Dev 0

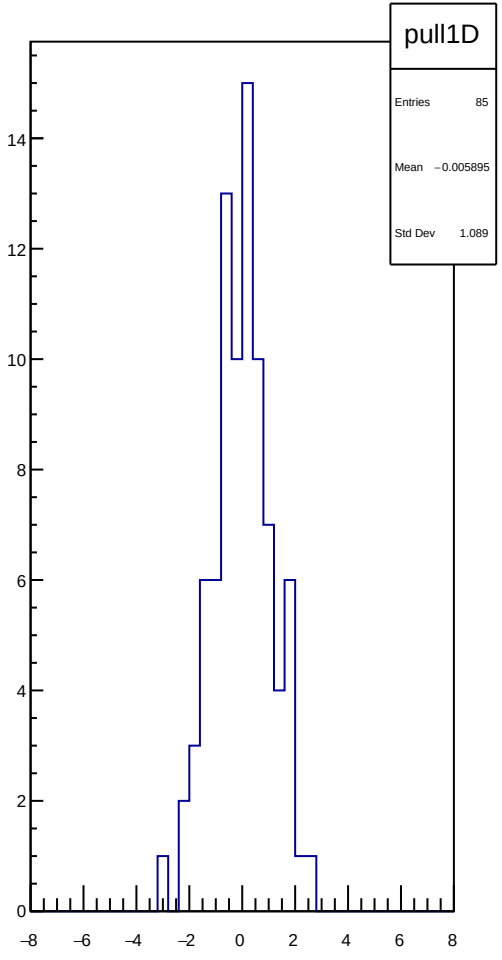

pull1D
Entries 85
Mean 0.007355
Std Dev 0.97

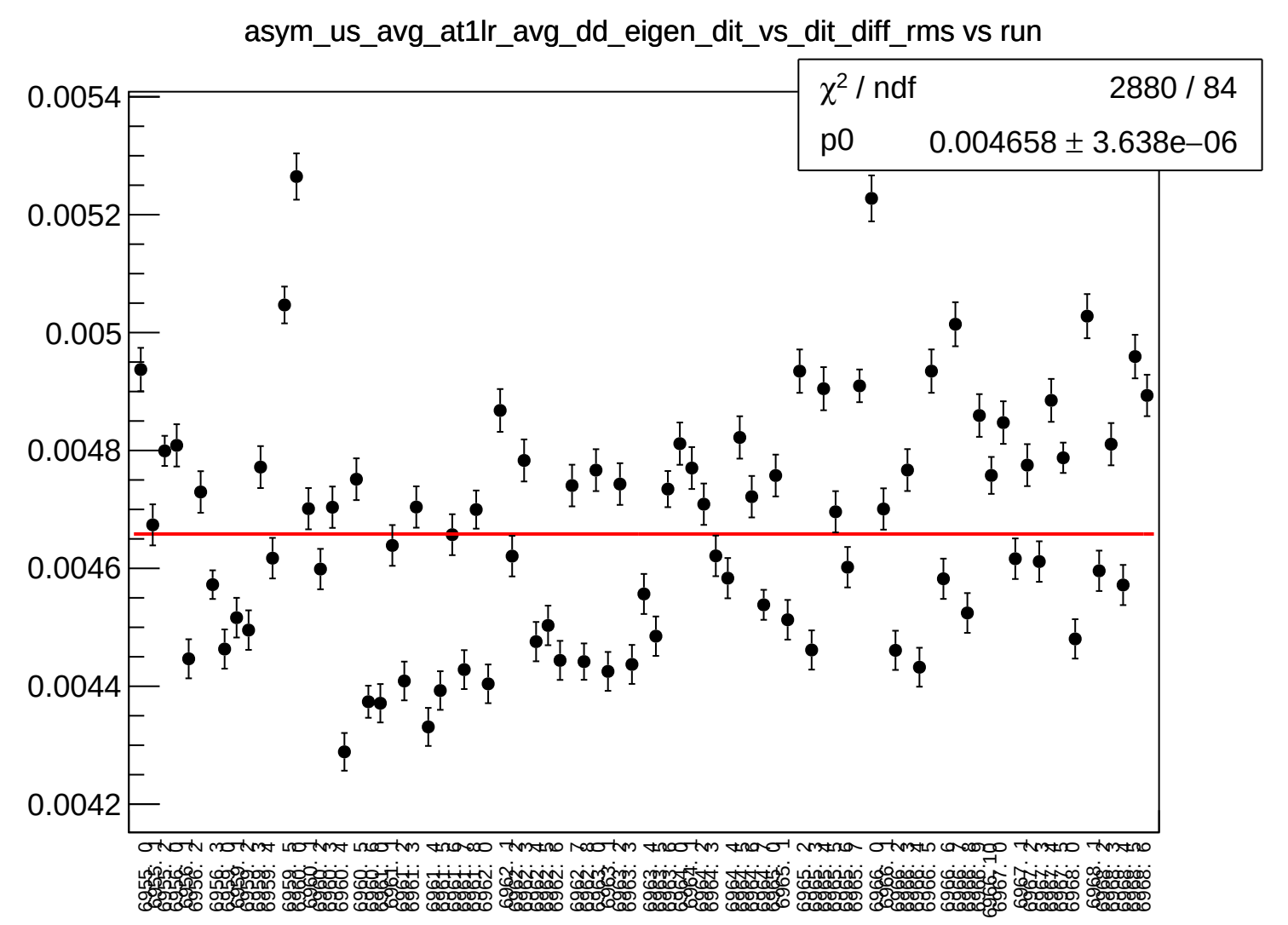

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.102e+05 / 84
p0 45.83 ± 0.03702
110
100
90
80
70
60
50
40
30

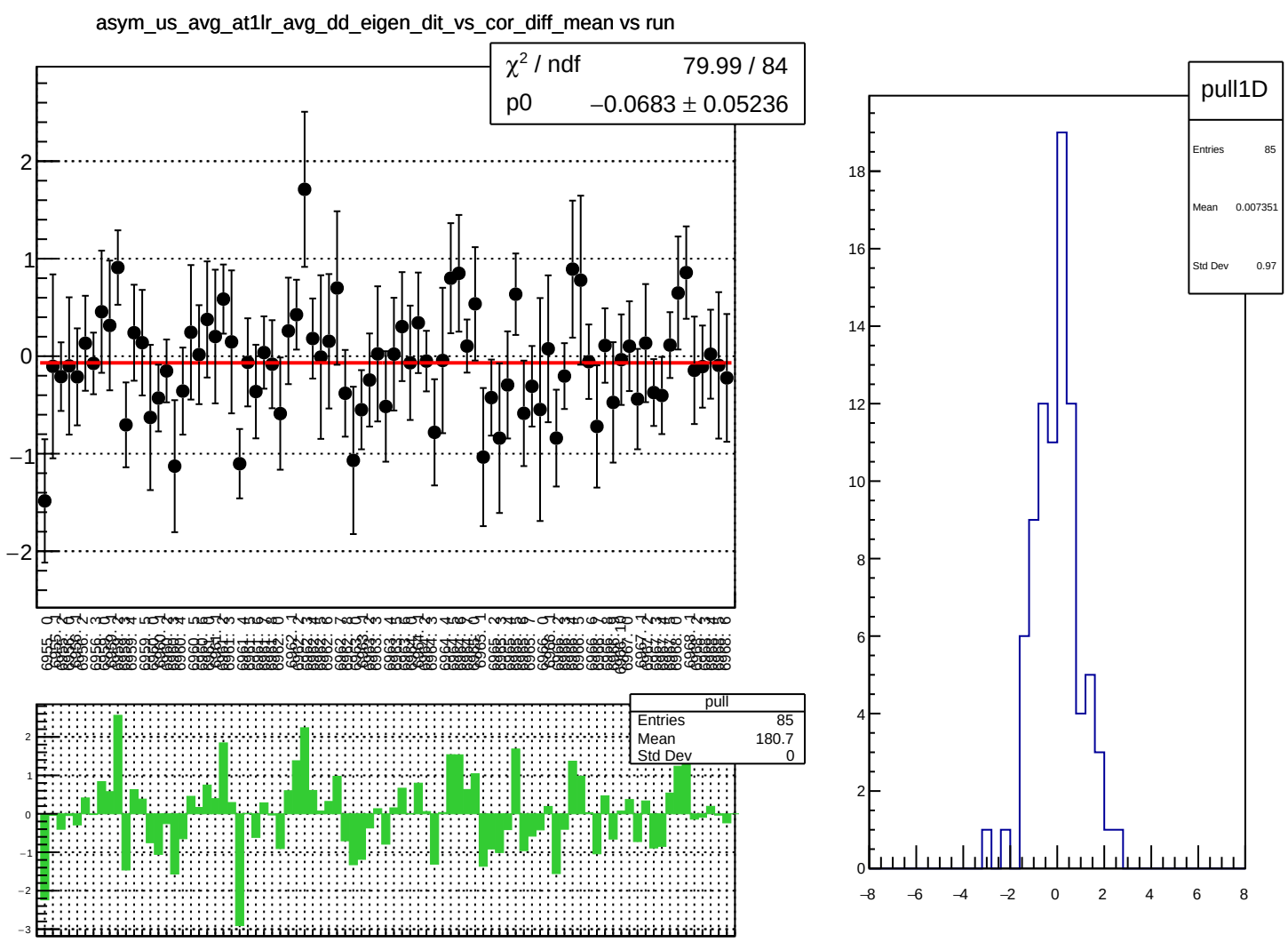

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.99 / 84
p0 −0.0683 ± 0.05236
pull
Entries 85
Mean 180.7
Std Dev 0
pull1D
Entries 85
Mean 0.007355
Std Dev 0.97

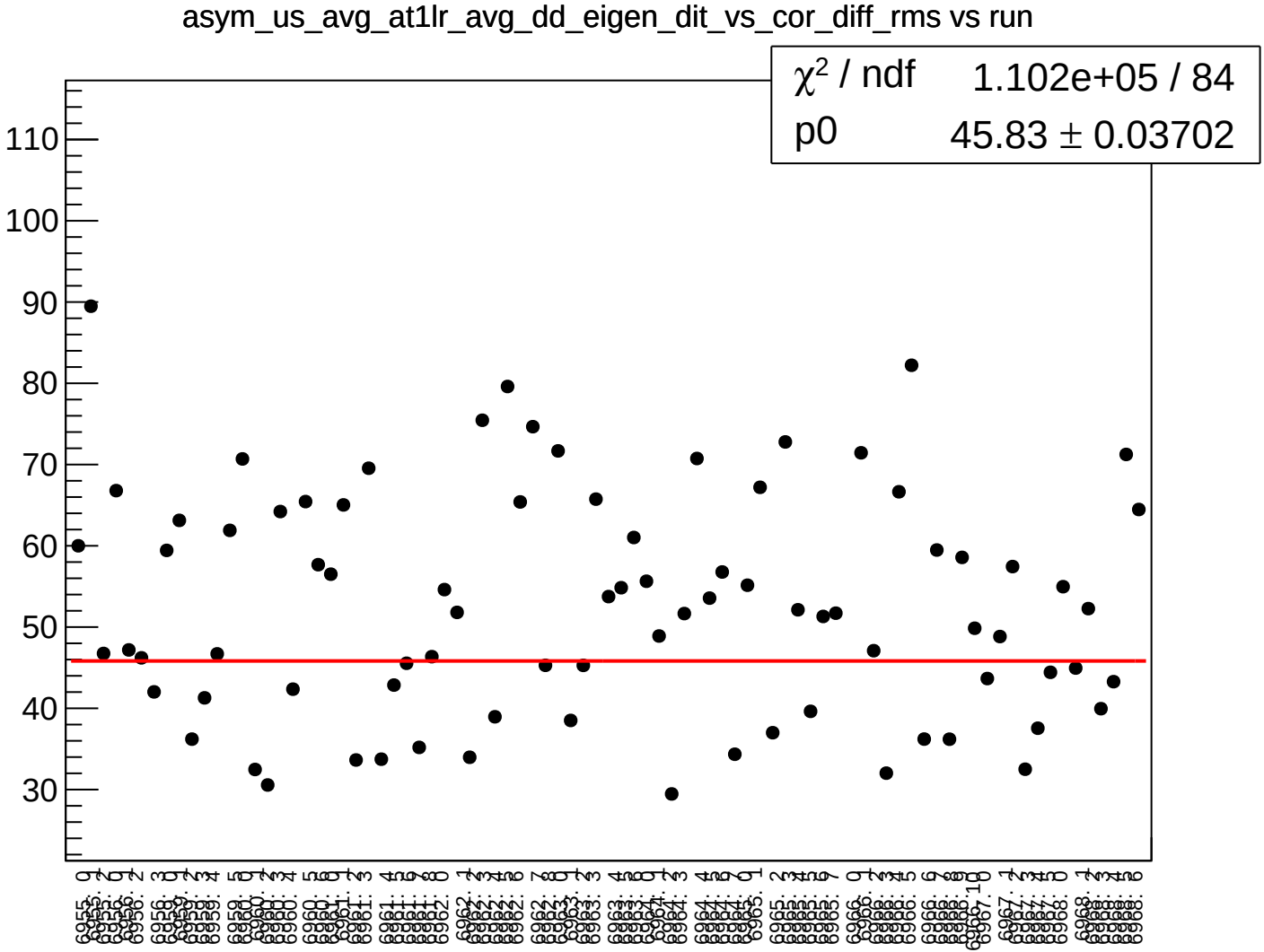

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.102e+05 / 84
p0 45.83 ± 0.03702
110
100
90
80
70
60
50
40
30

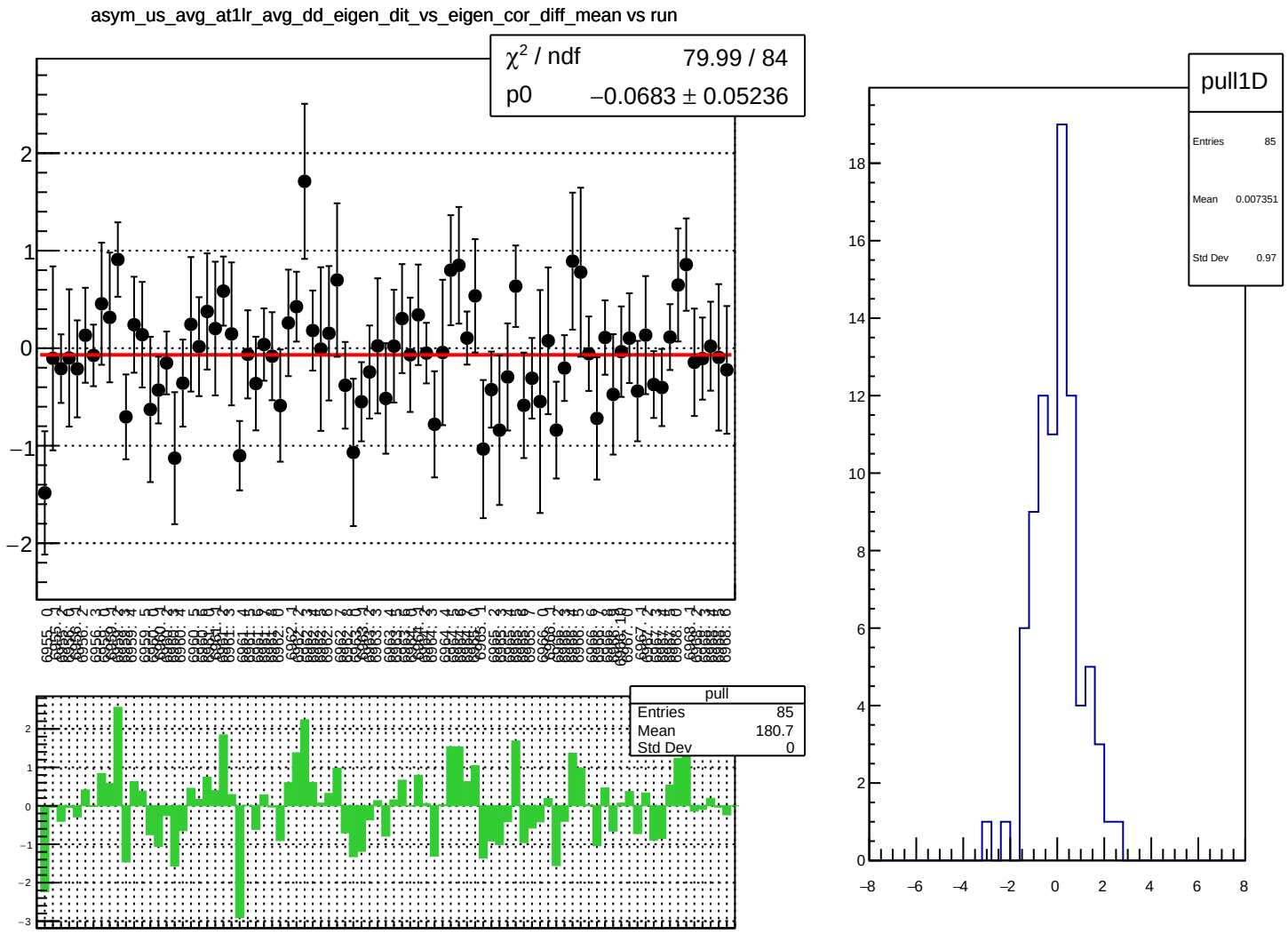

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.8 / 84
p0 −1.833e−06 ± 5.145e−06
pull
Entries 85
Mean 242.9
Std Dev 0

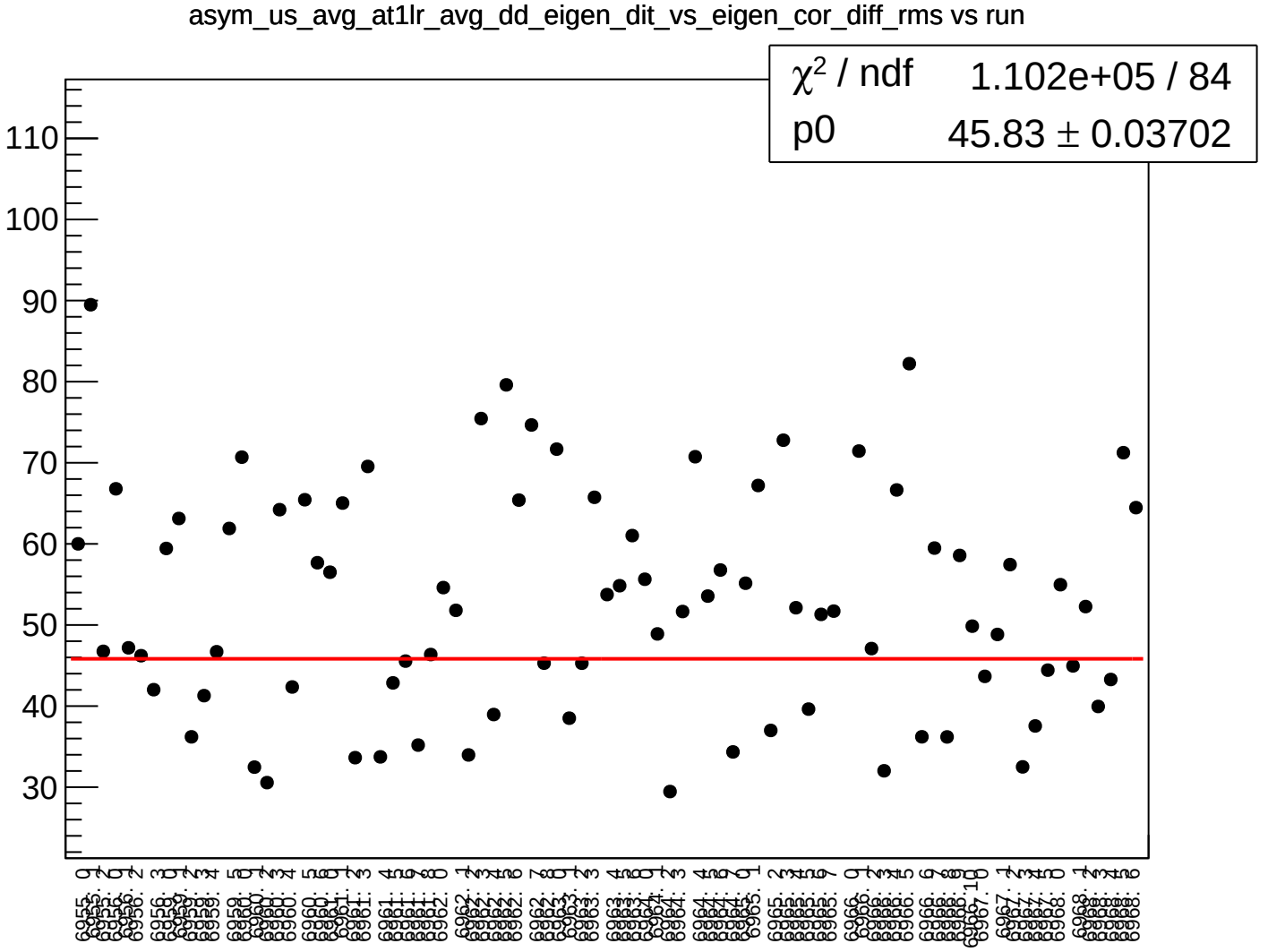

pull1D
Entries 85
Mean −0.005895
Std Dev 1.089

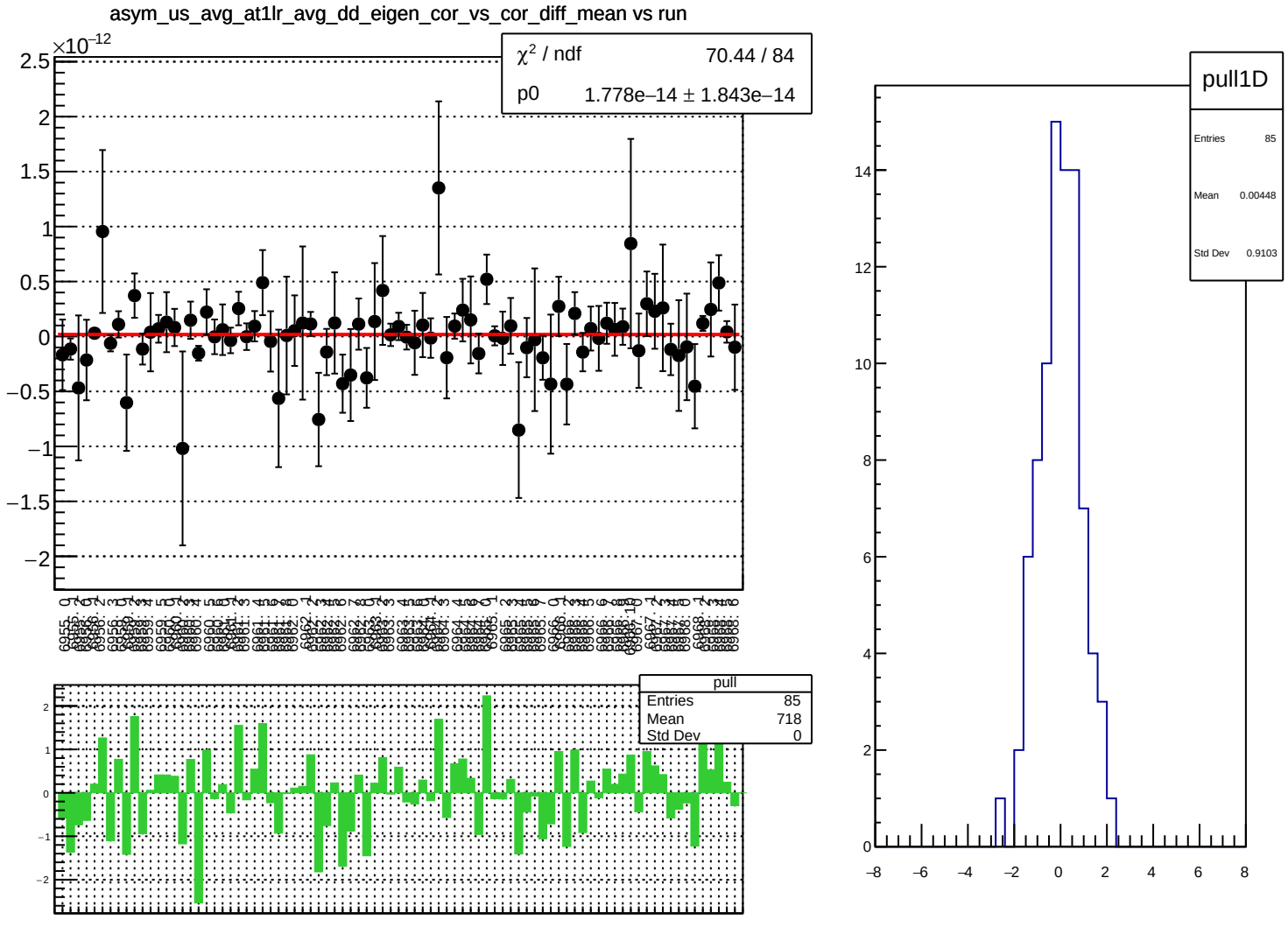

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2880 / 84
p0 0.004658 ± 3.638e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

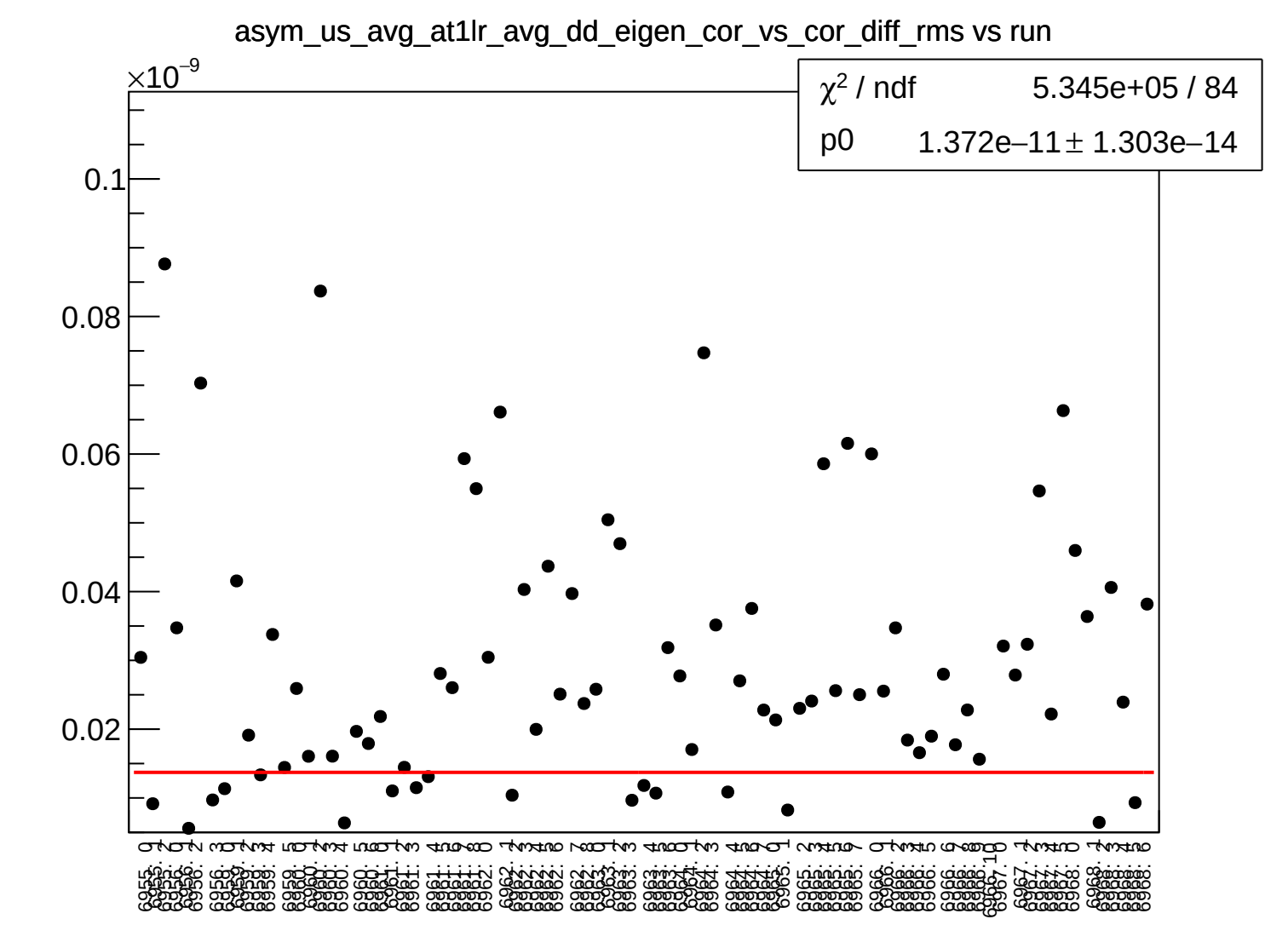

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.99 / 84
p0 −0.0683 ± 0.05236
pull
Entries 85
Mean 180.7
Std Dev 0
pull1D
Entries 85
Mean 0.007351
Std Dev 0.97

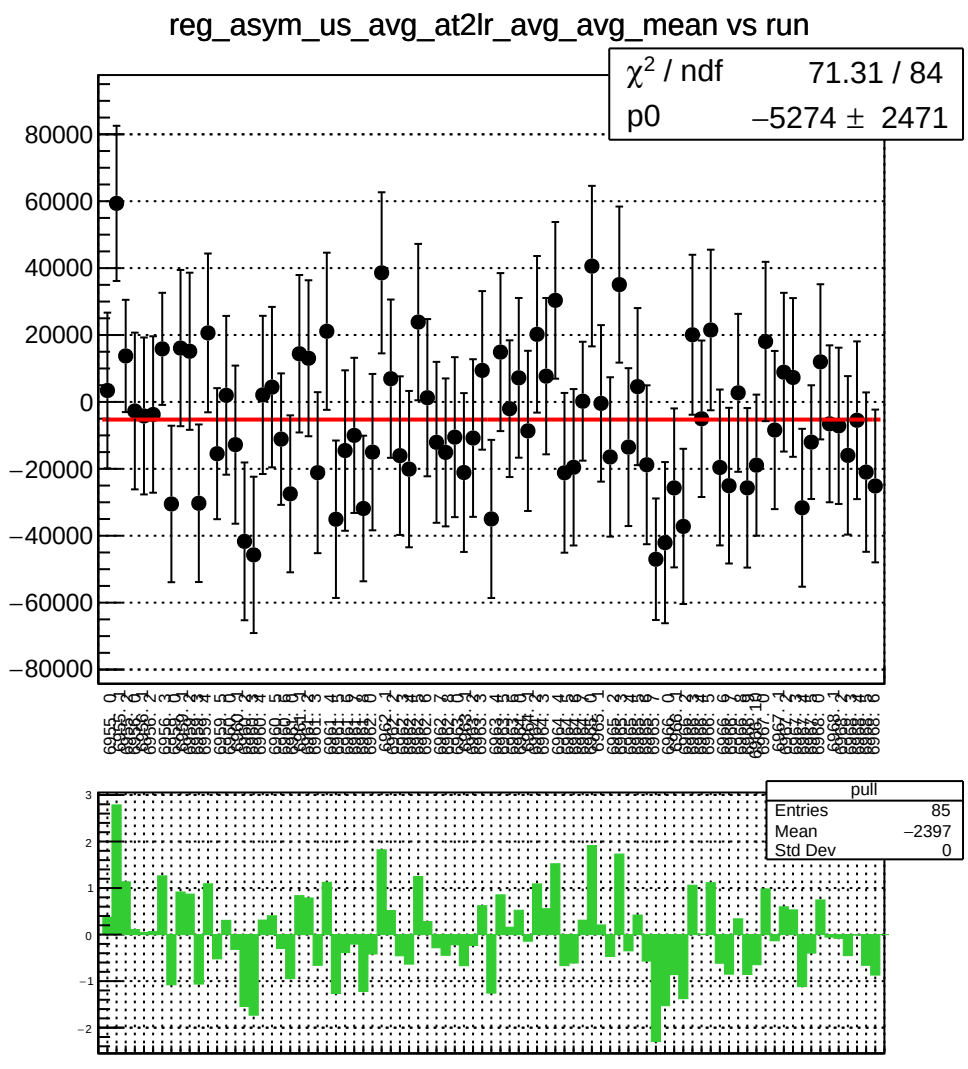

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.102e+05 / 84
p0 45.83 ± 0.03702
110
100
90
80
70
60
50
40
30

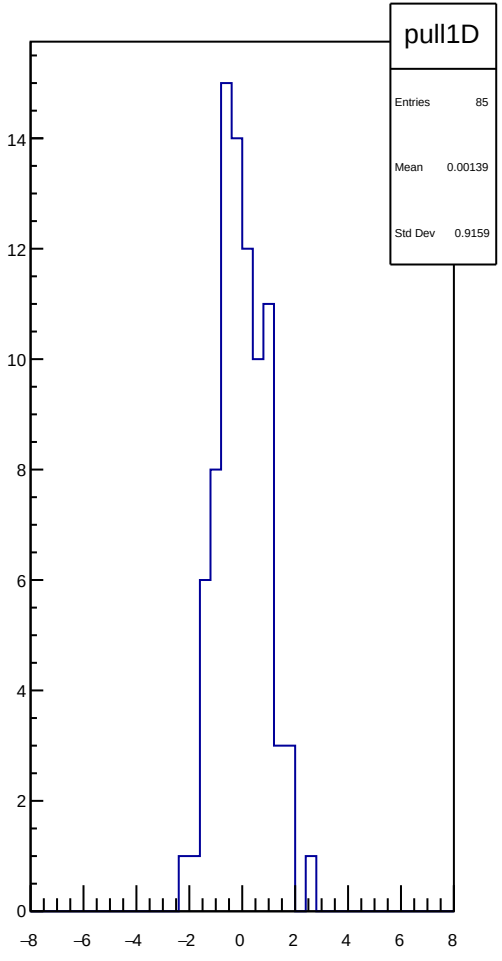

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.99 / 84
p0 −0.0683 ± 0.05236
pull
Entries 85
Mean 180.7
Std Dev 0
pull1D
Entries 85
Mean 0.007351
Std Dev 0.97

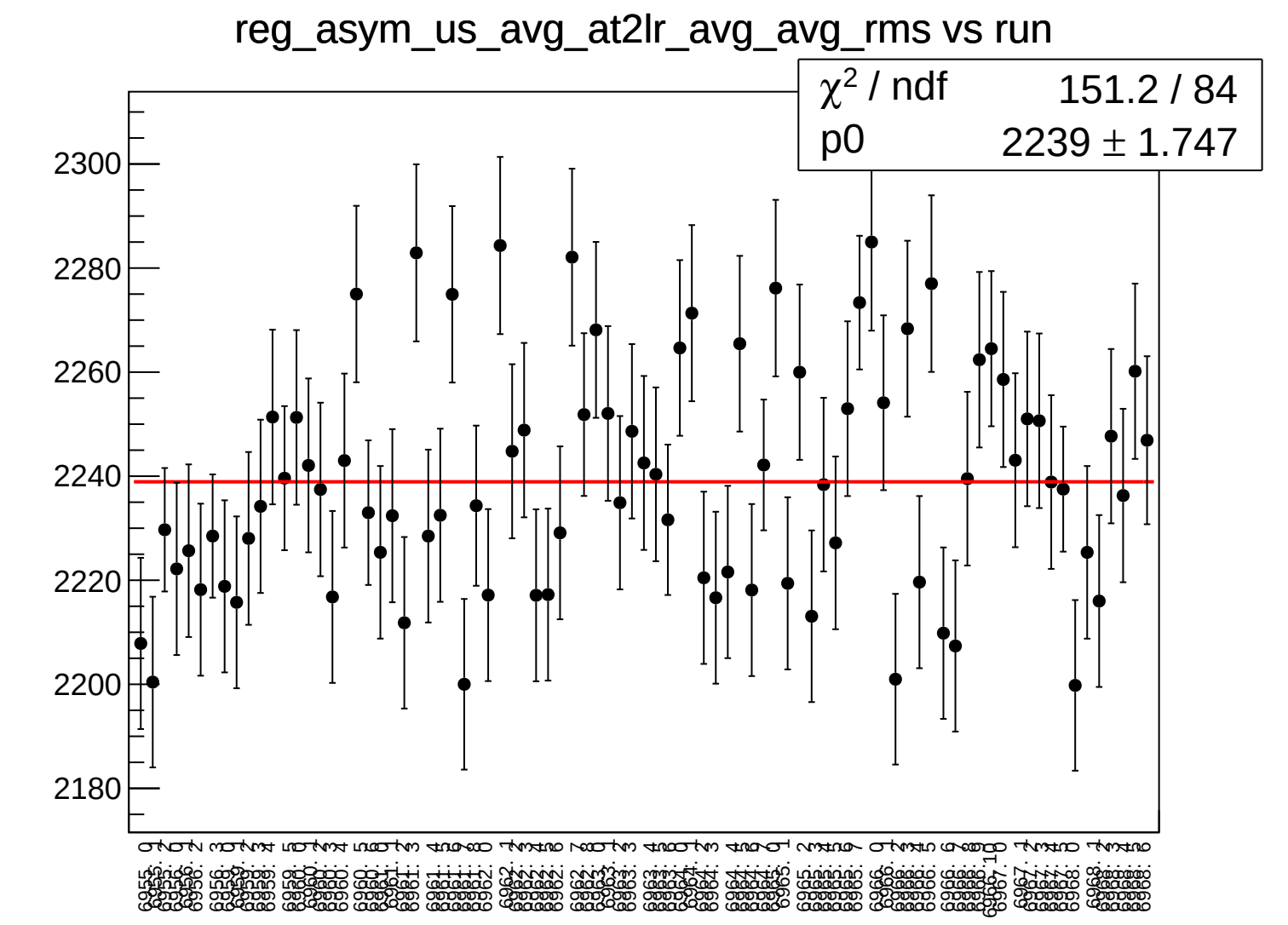

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.102e+05 / 84
p0 45.83 ± 0.03702
110
100
90
80
70
60
50
40
30

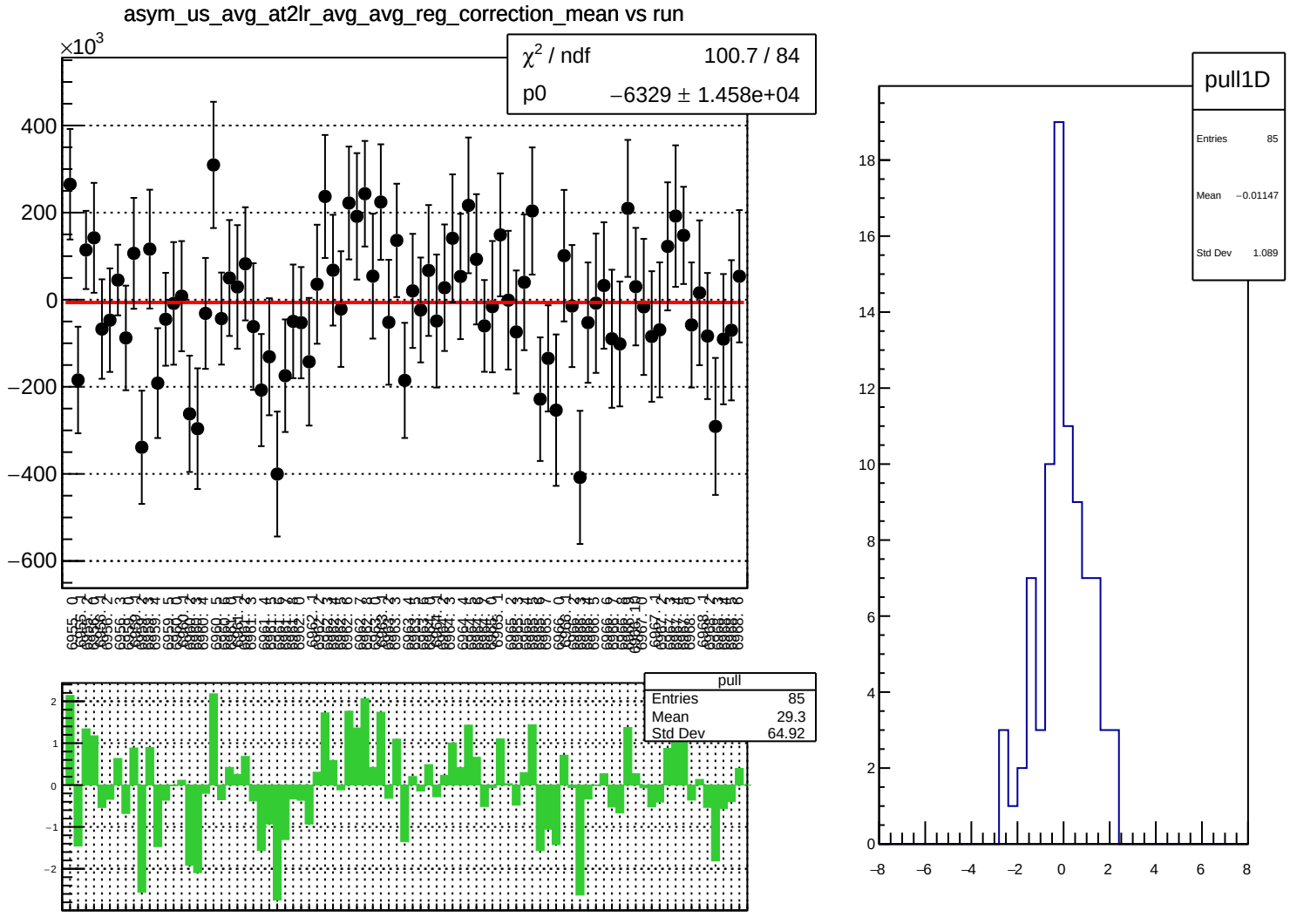

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.44 / 84
p0 1.778e−14 ± 1.843e−14
pull
Entries 85
Mean 718
Std Dev 0
pull1D
Entries 85
Mean 0.00448
Std Dev 0.9103

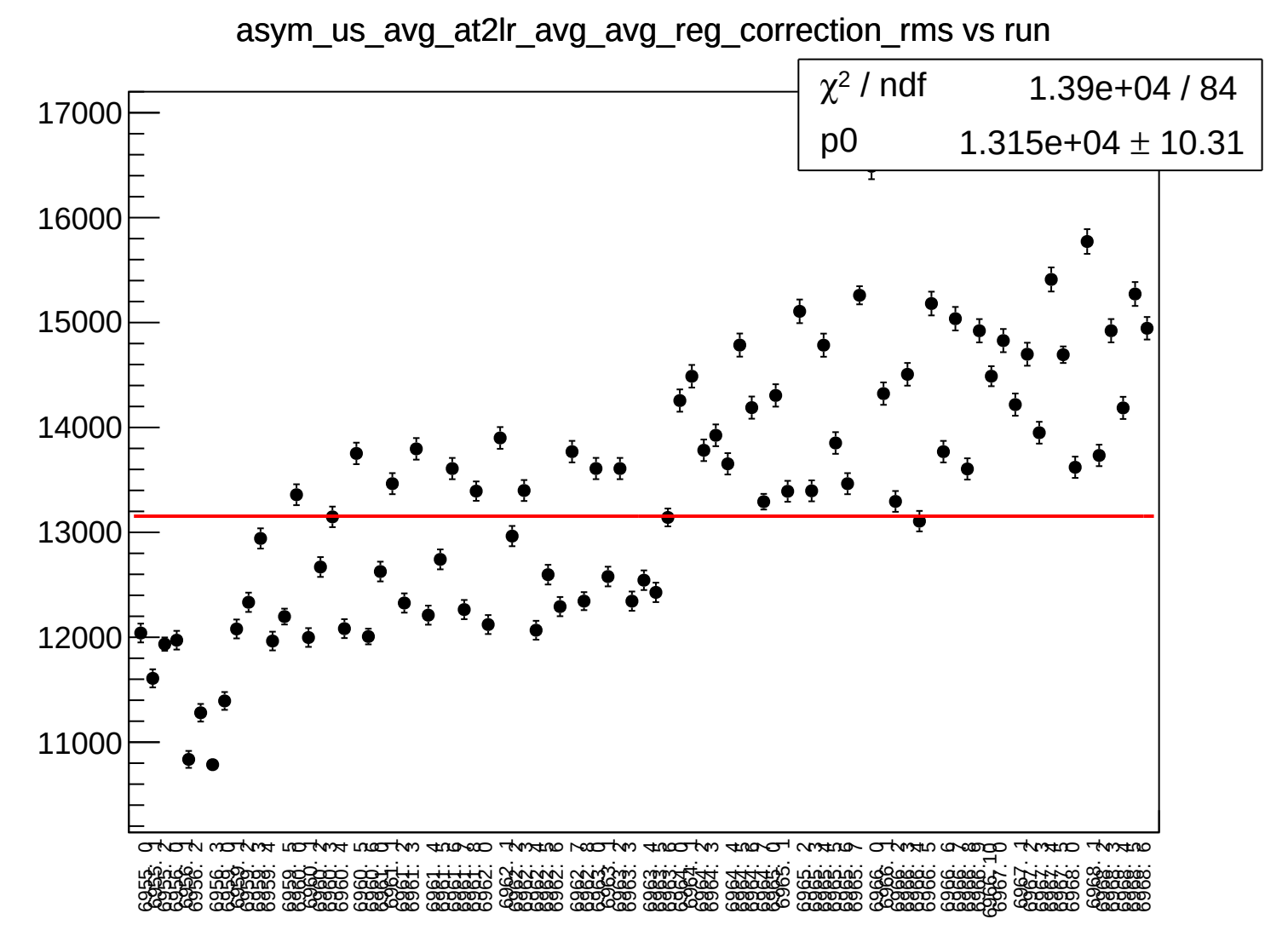

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.345e+05 / 84
p0 1.372e−11 ± 1.303e−14
0.1
0.08
0.06
0.04
0.02

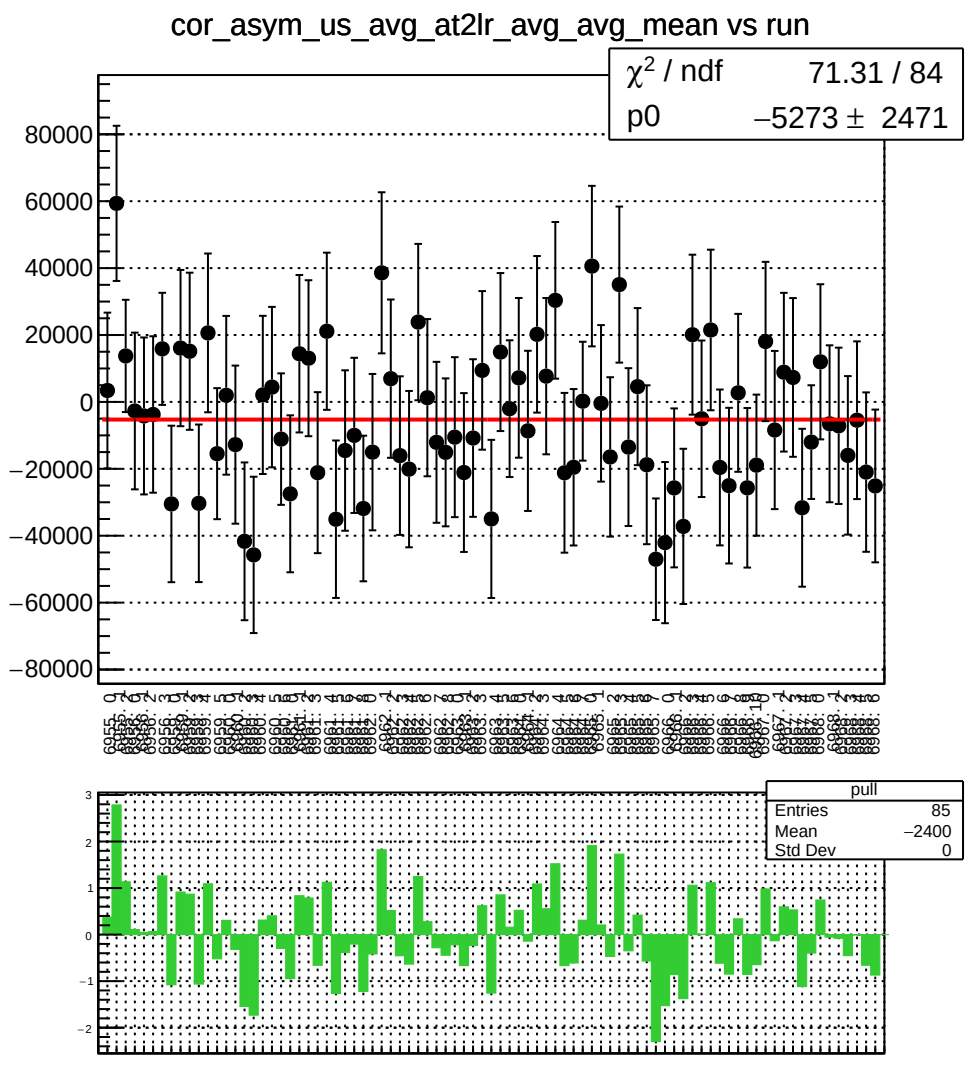

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 71.31 / 84
p0 −5274 ± 2471
pull
Entries 85
Mean −2397
Std Dev 0

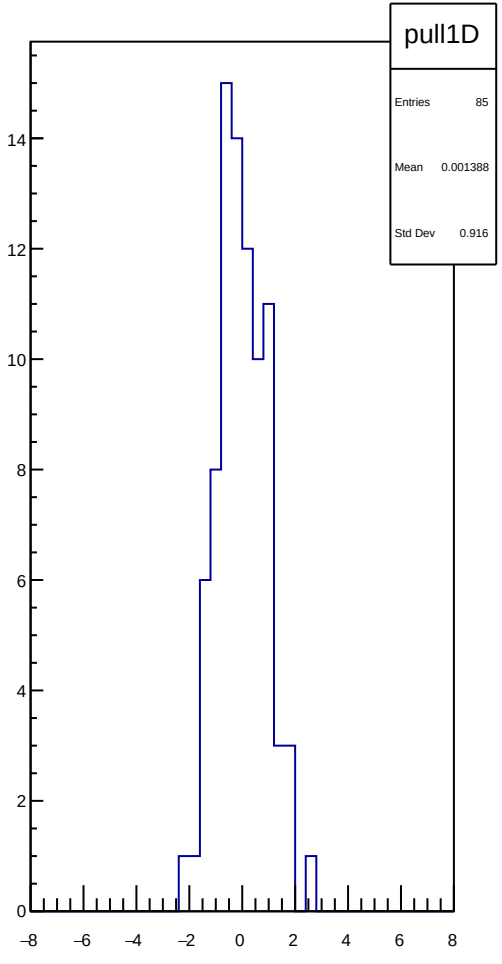

pull1D
Entries 85
Mean 0.00139
Std Dev 0.9159

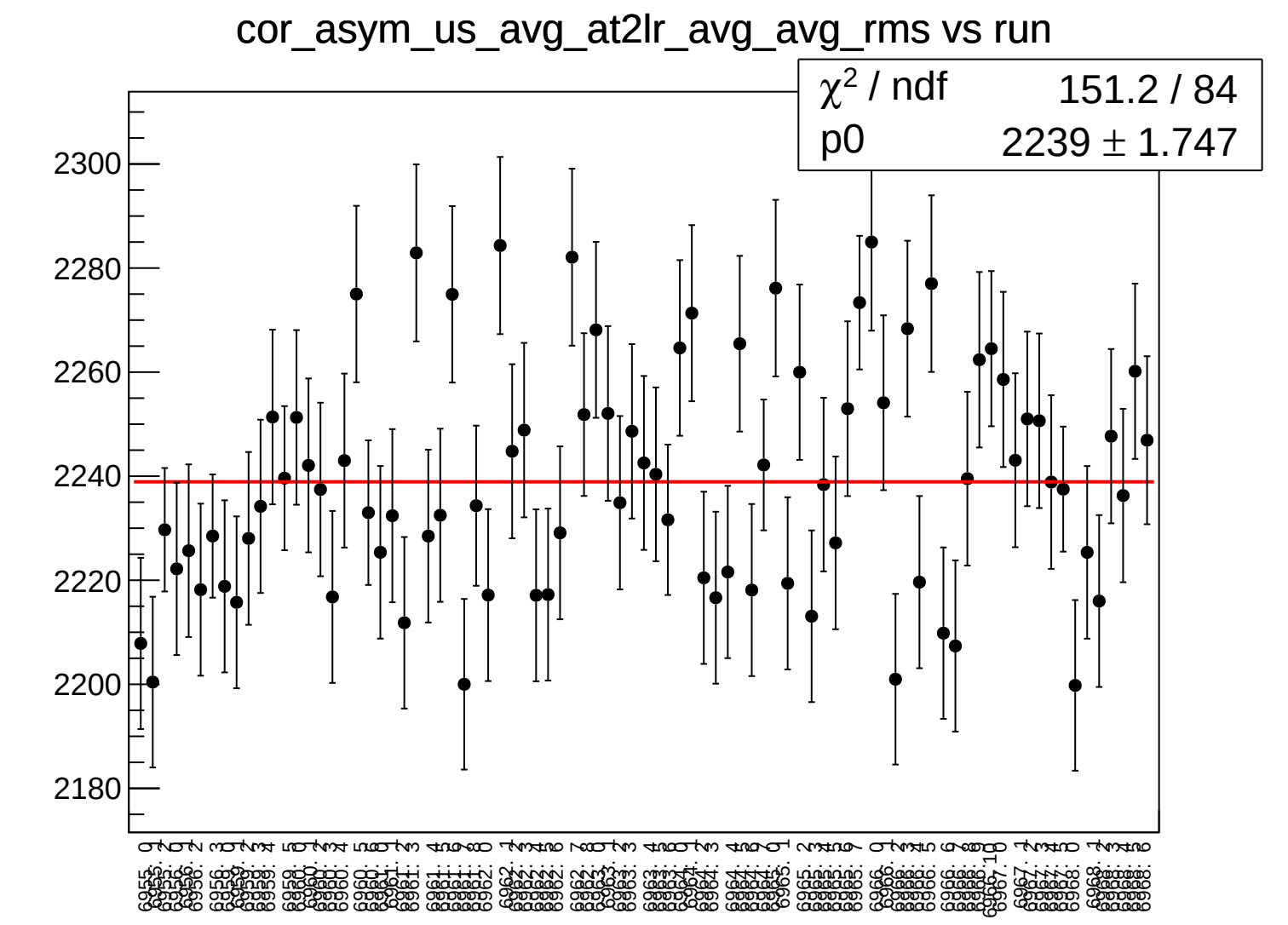

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 151.2 / 84
p0 2239 ± 1.747
2300
2280
2260
2240
2220
2200
2180

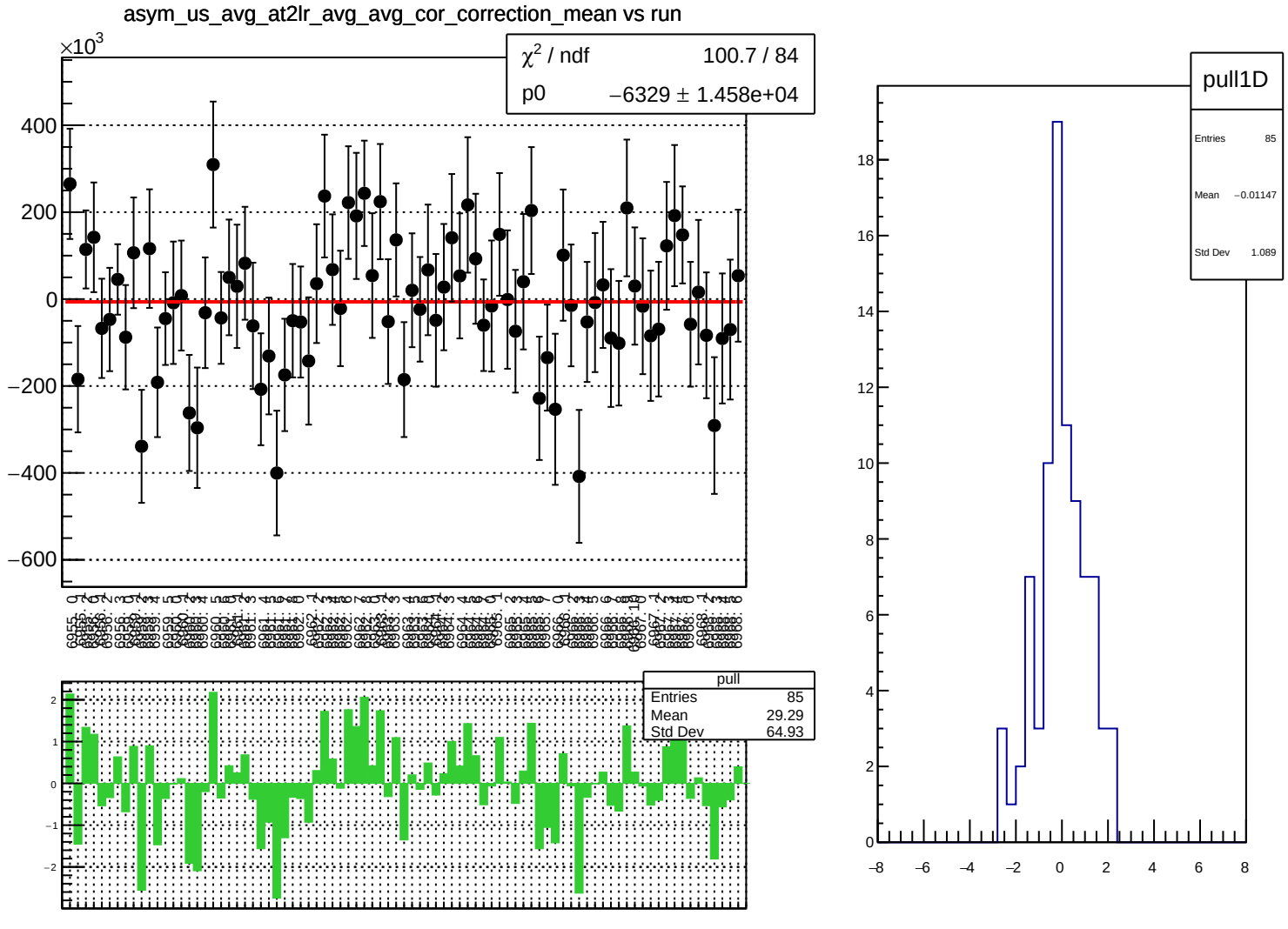

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.7 / 84
p0 −6329 ± 1.458e+04
400
200
0
−200
−400
−600
pull
Entries 85
Mean 29.3
Std Dev 64.92
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01147
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

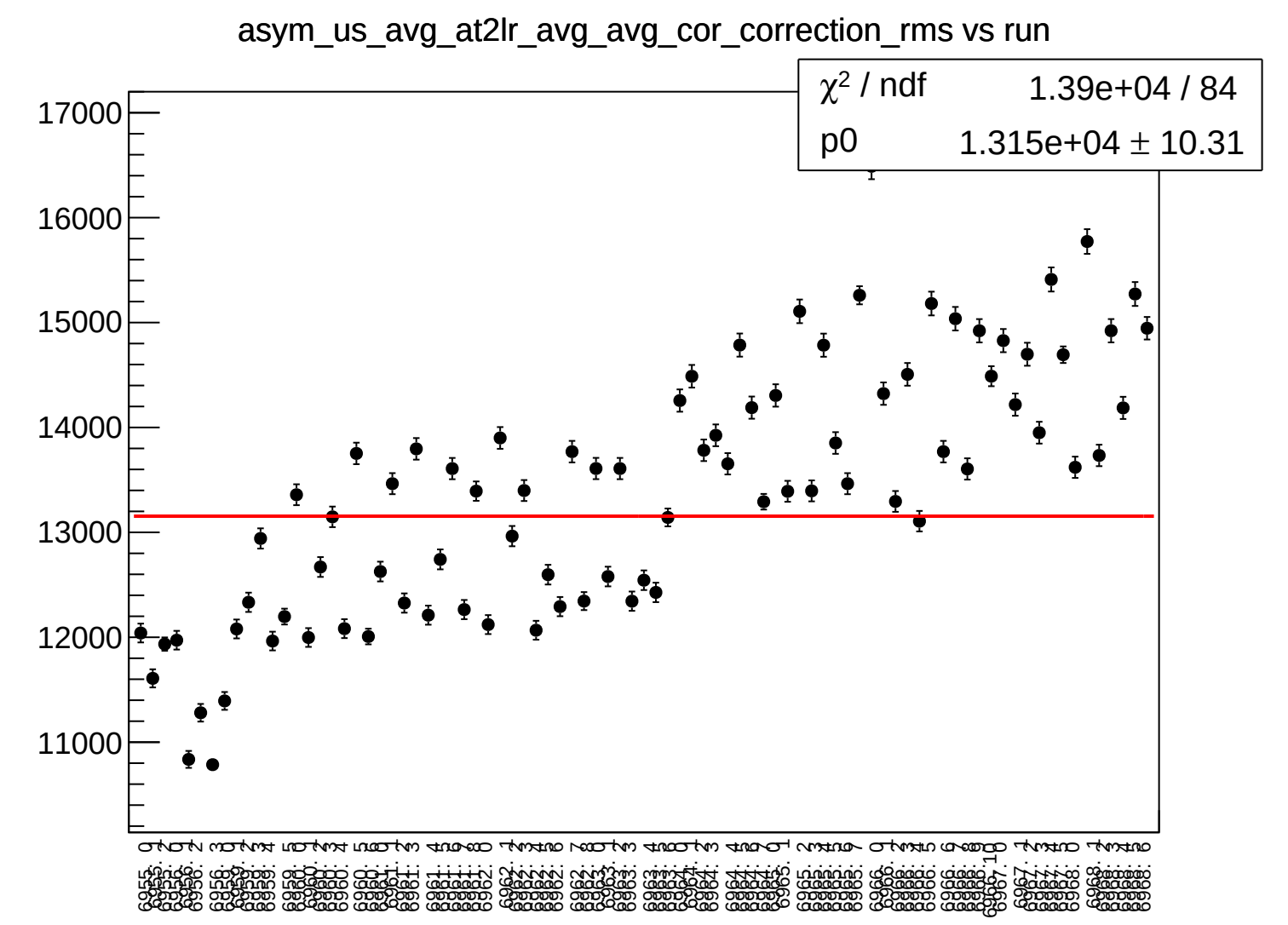

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.39e+04 / 84
p0 1.315e+04 ± 10.31
17000
16000
15000
14000
13000
12000
11000

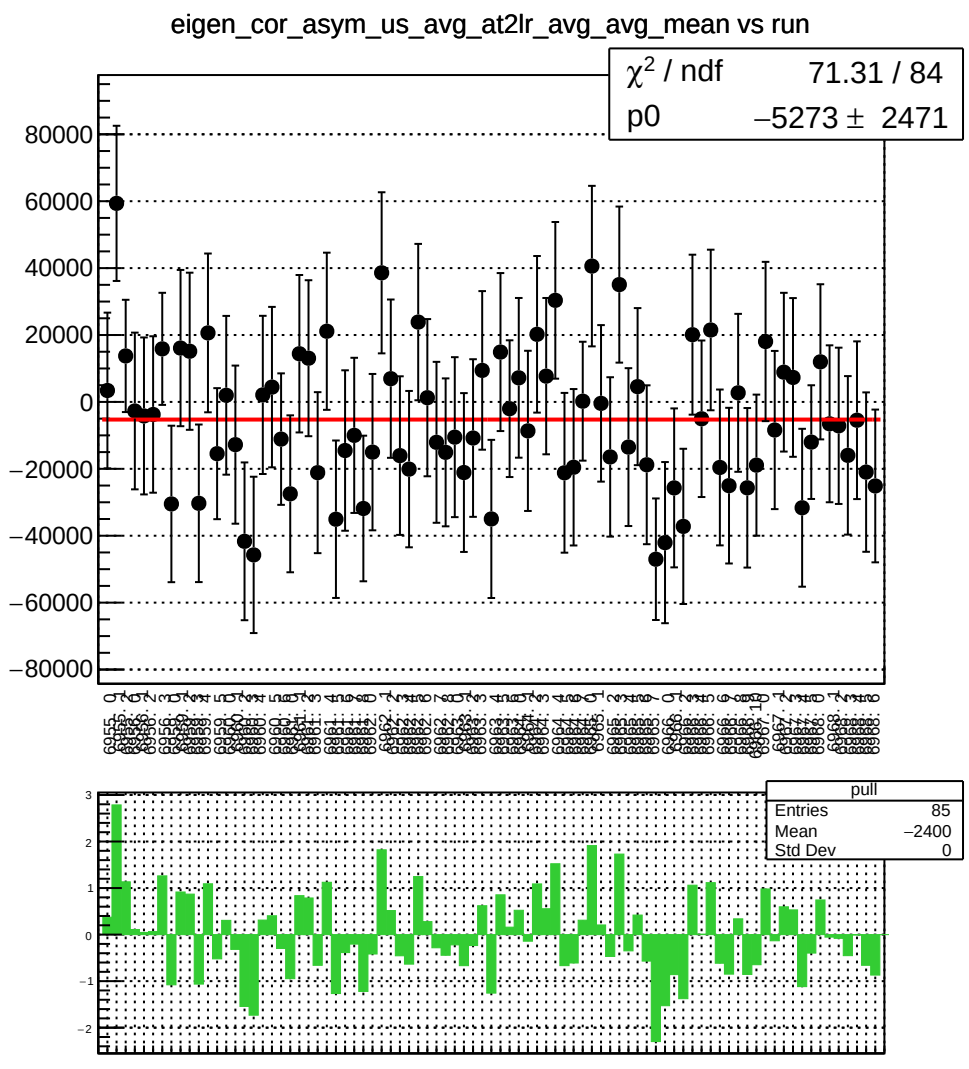

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 71.31 / 84
p0 −5273 ± 2471
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −2400
Std Dev 0
3
2
1
0
−1
−2

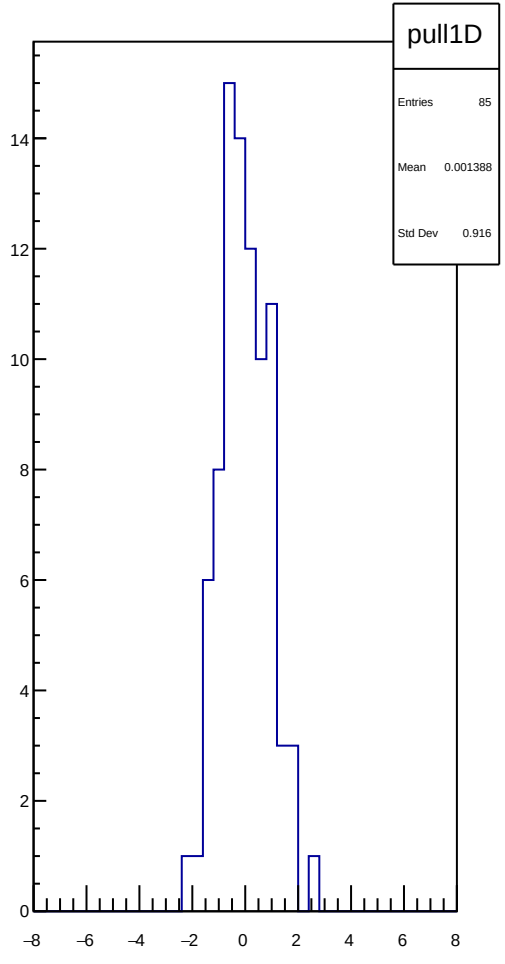

pull1D
Entries 85
Mean 0.001388
Std Dev 0.916
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

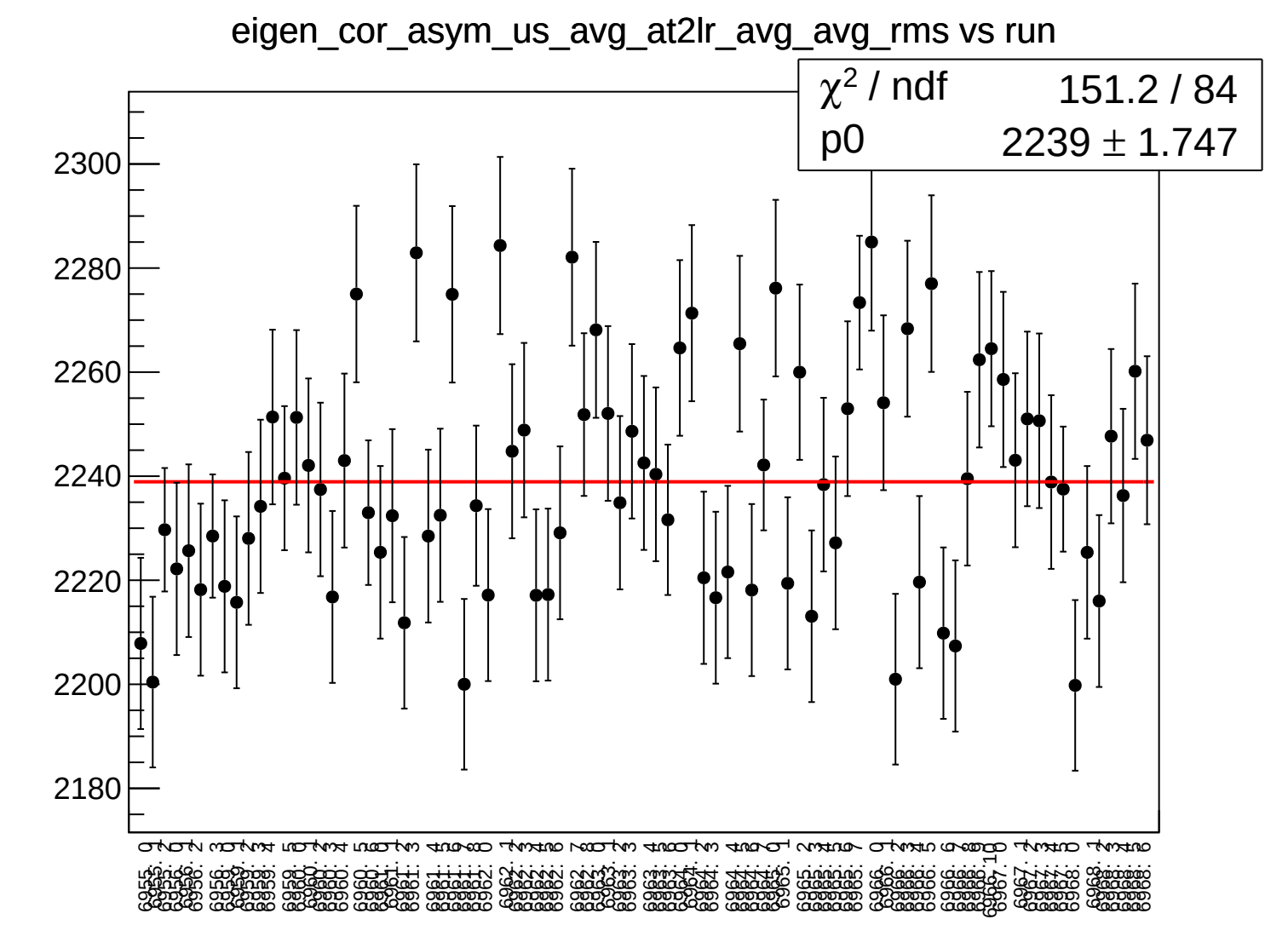

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 151.2 / 84
p0 2239 ± 1.747
2300
2280
2260
2240
2220
2200
2180

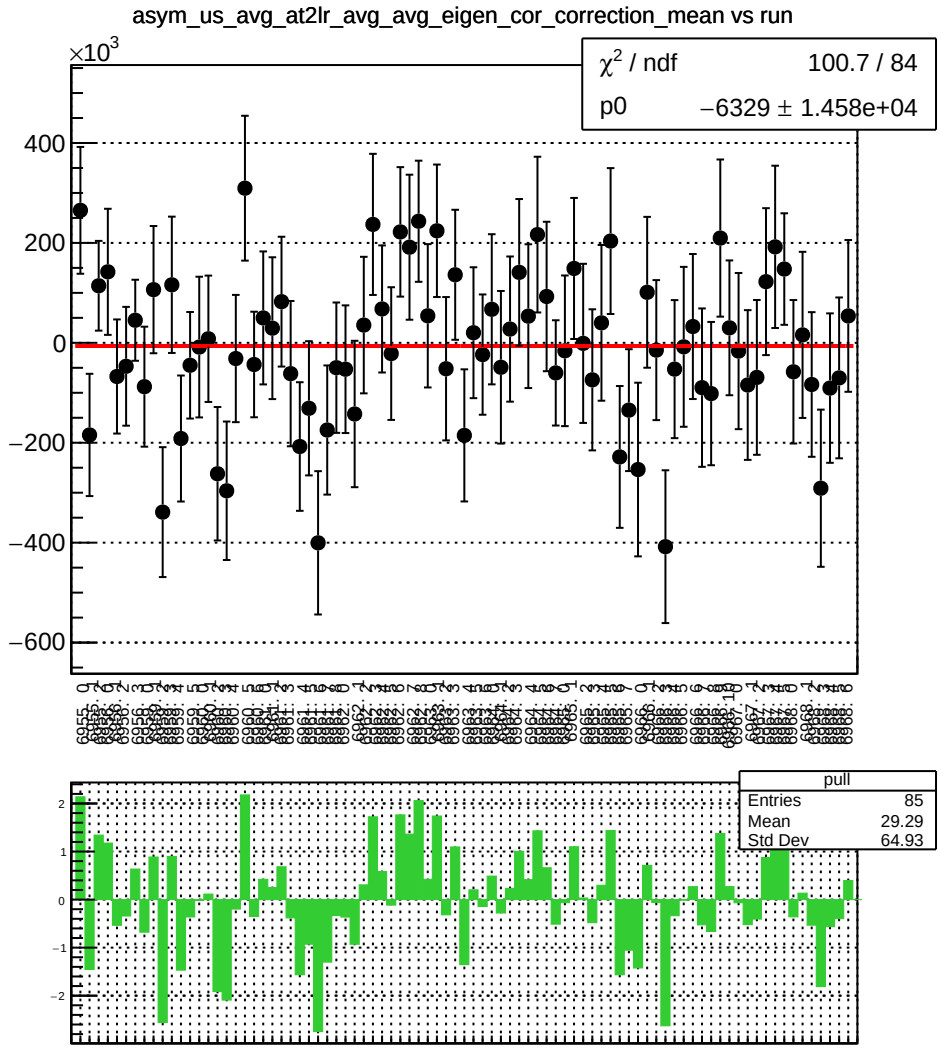

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.7 / 84
p0 −6329 ± 1.458e+04
400
200
0
−200
−400
−600
pull
Entries 85
Mean 29.29
Std Dev 64.93
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01147
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

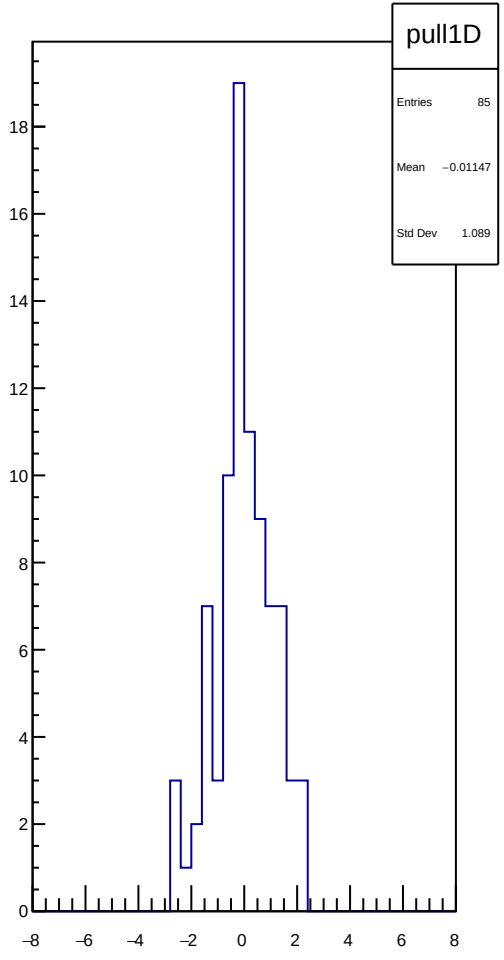

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.39e+04 / 84
p0 1.315e+04 ± 10.31
17000
16000
15000
14000
13000
12000
11000

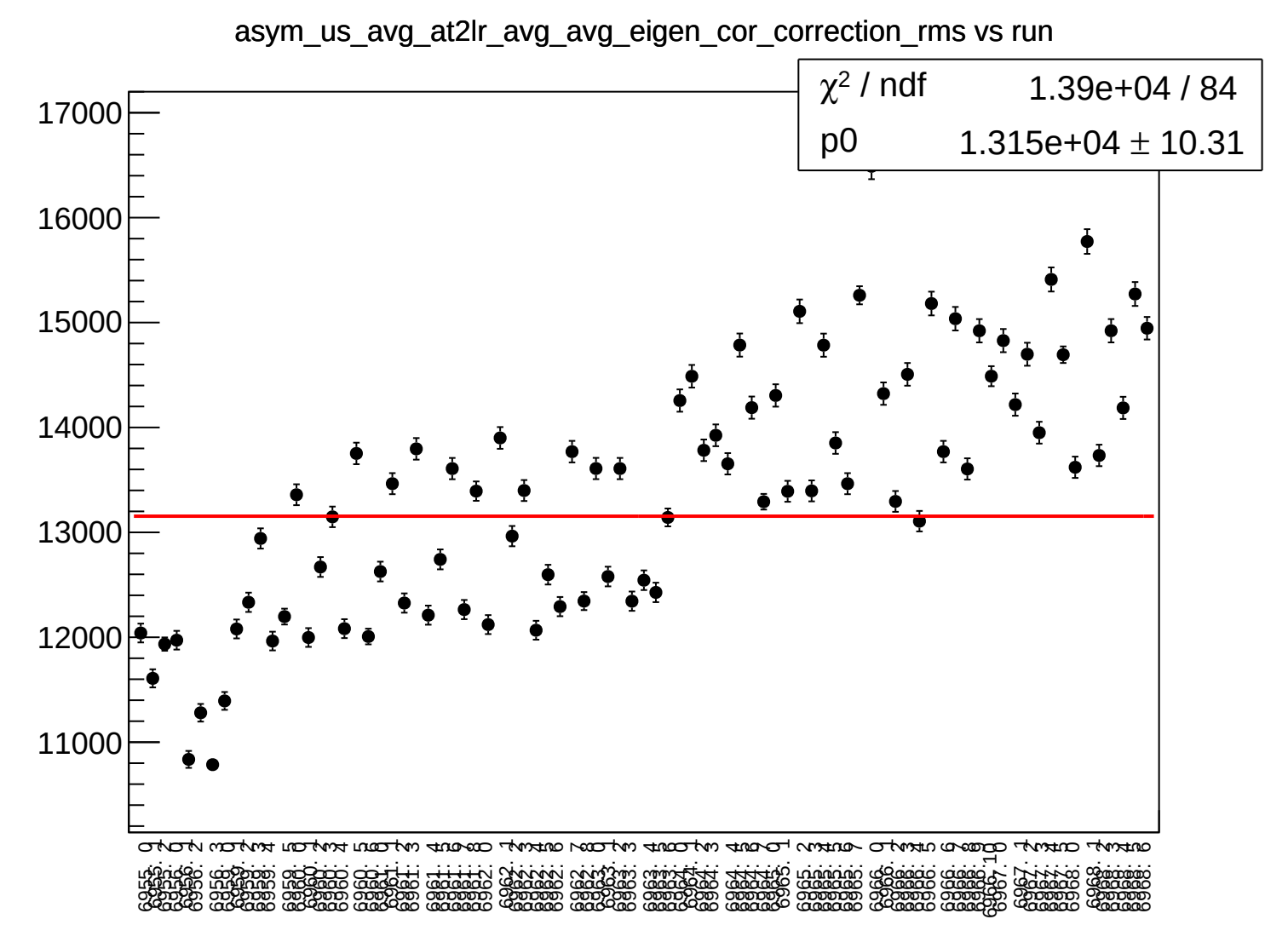

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 71.31 / 84
p0 −5273 ± 2471
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −2400
Std Dev 0
3
2
1
0
−1
−2

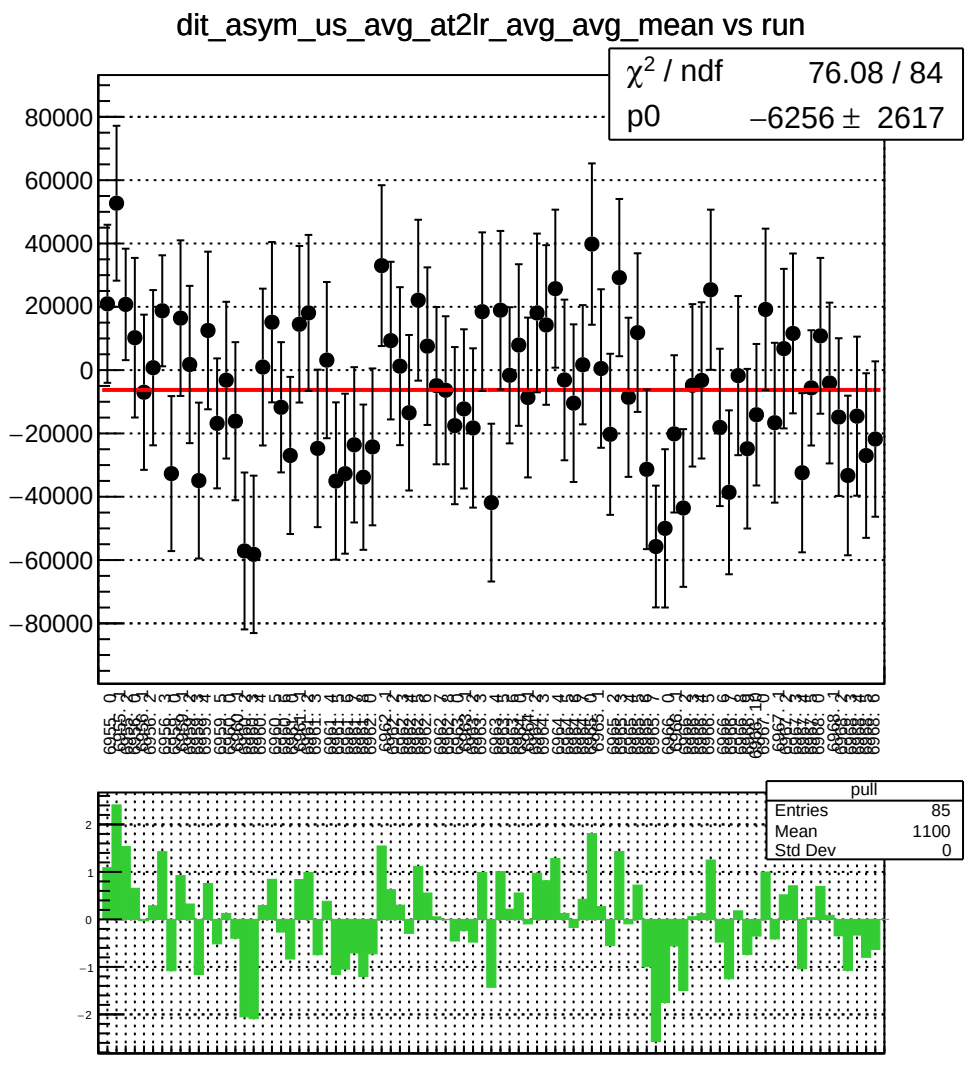

pull1D
Entries 85
Mean 0.001388
Std Dev 0.916
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

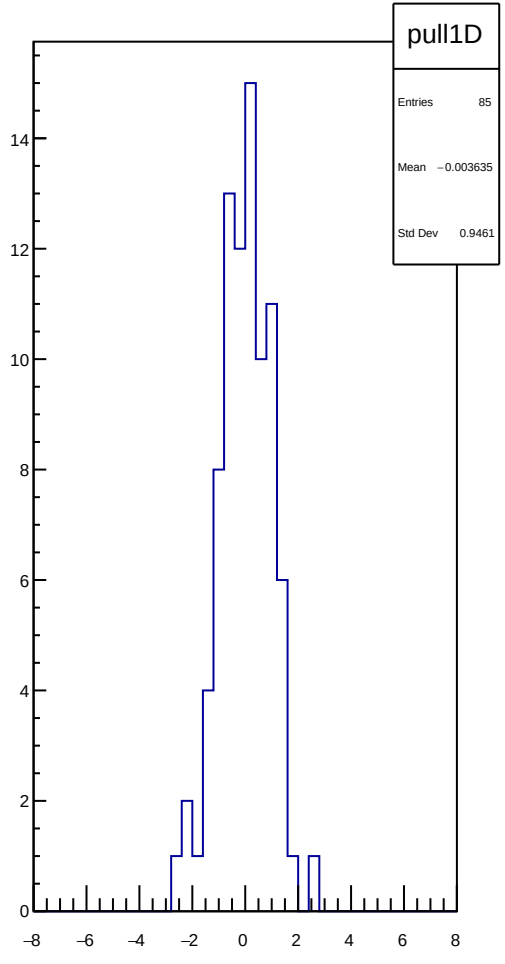

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 151.2 / 84
p0 2239 ± 1.747
2300
2280
2260
2240
2220
2200
2180

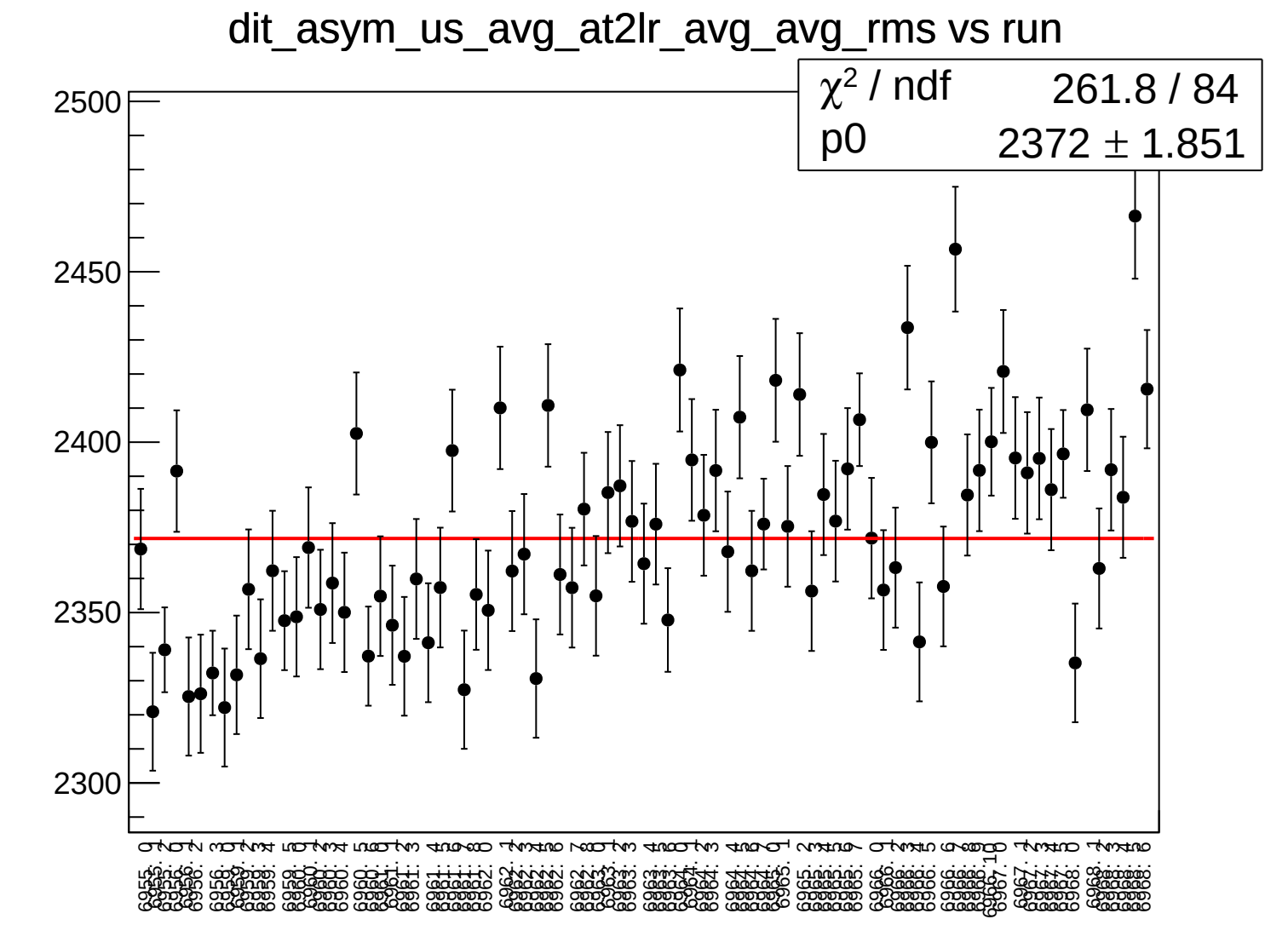

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.7 / 84
p0 −6329 ± 1.458e+04
400
200
0
−200
−400
−600
pull
Entries 85
Mean 29.29
Std Dev 64.93
2
1
0
−1
−2

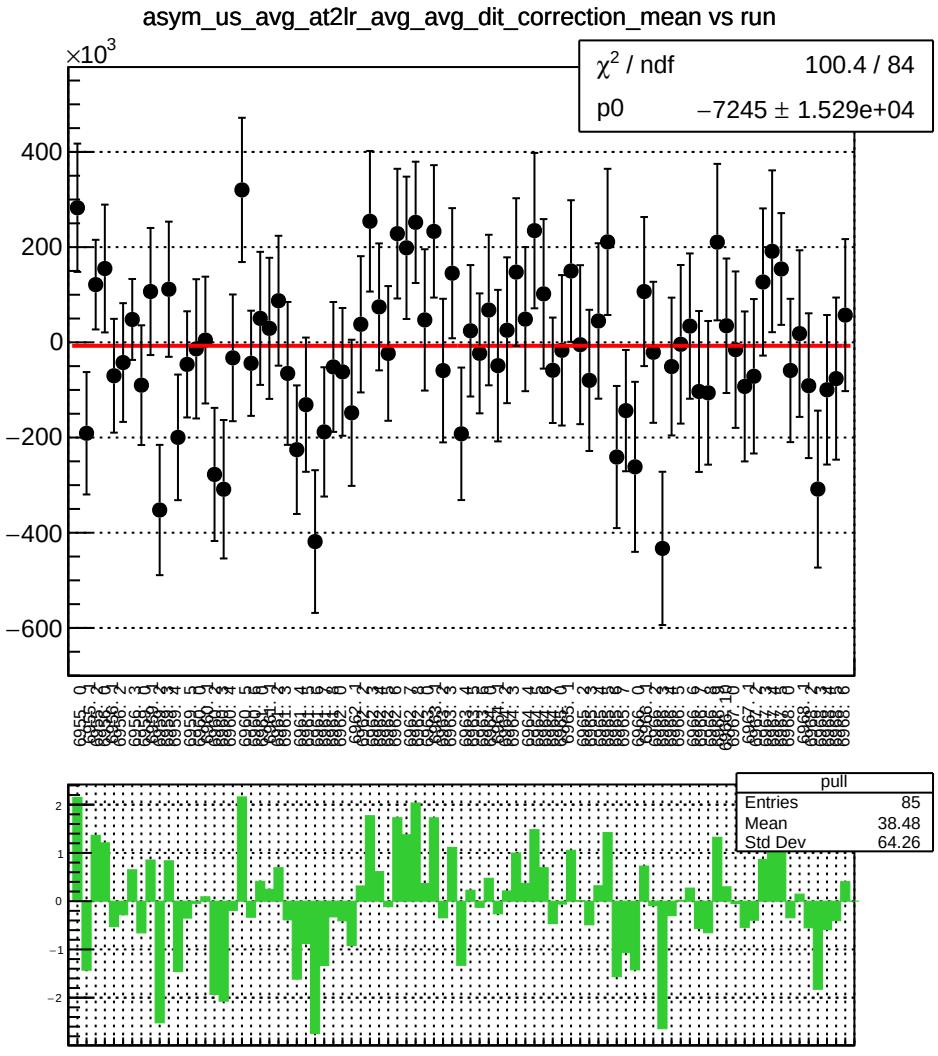

pull1D
Entries 85
Mean −0.01147
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

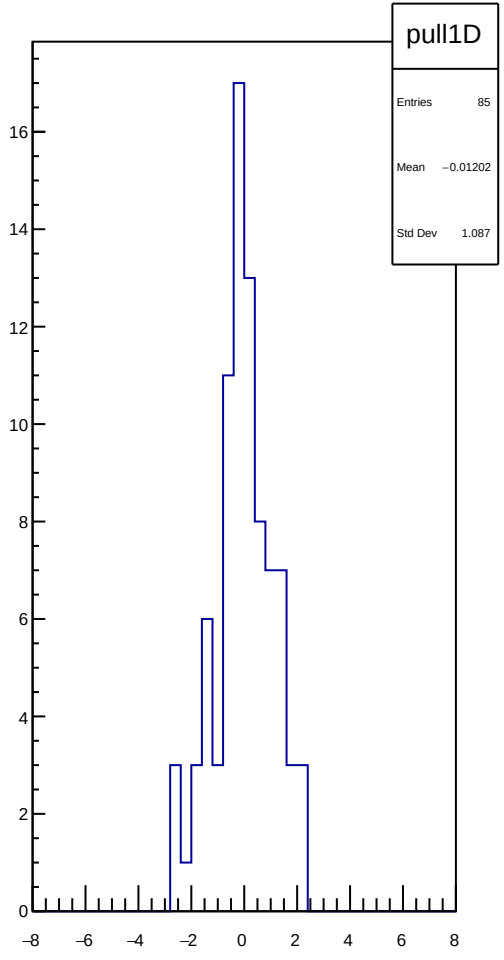

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 1.39e+04 / 84
p0 1.315e+04 ± 10.31
17000
16000
15000
14000
13000
12000
11000

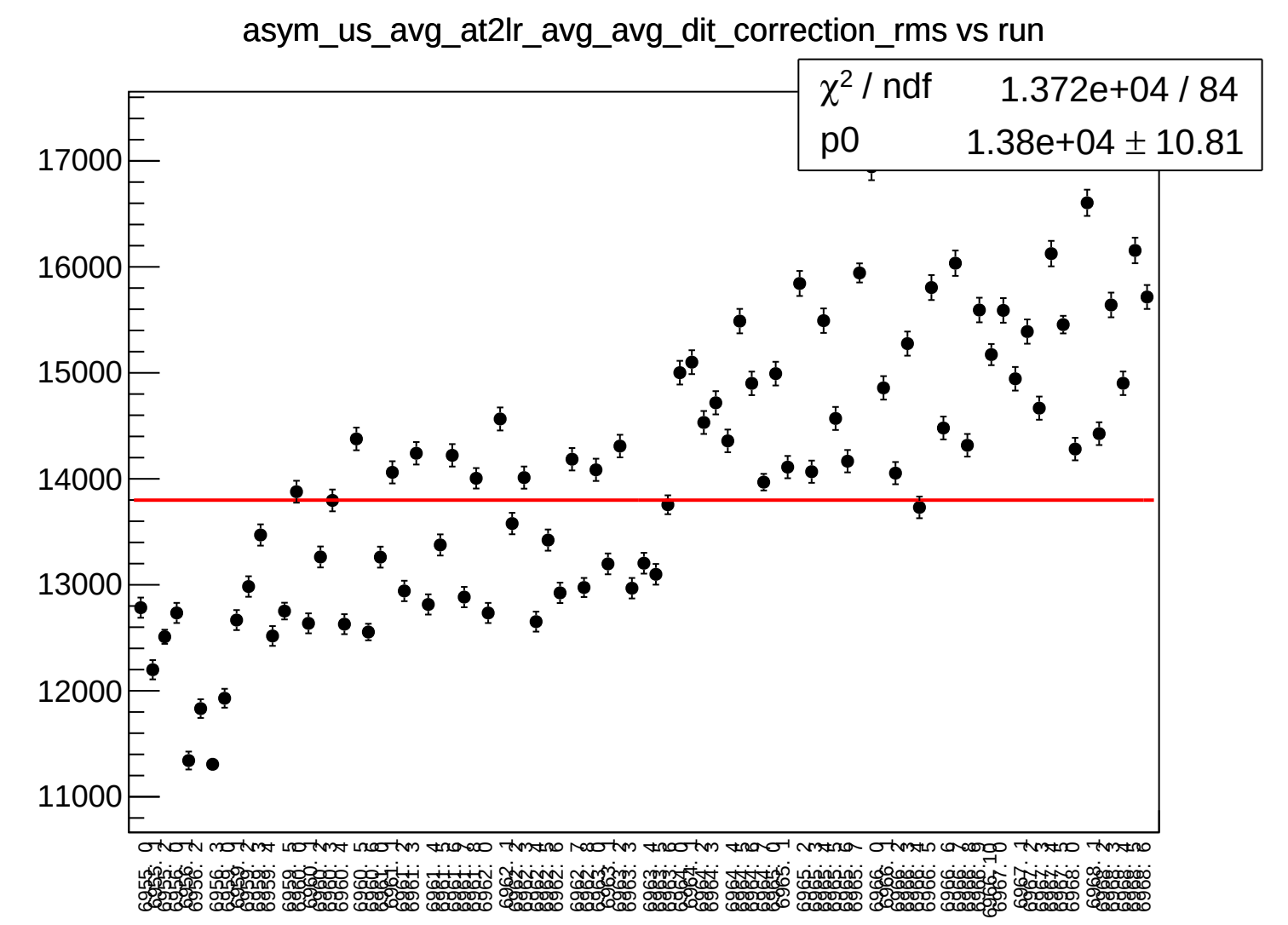

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 76.08 / 84
p0 −6256 ± 2617
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 1100
Std Dev 0
2
1
0
−1
−2

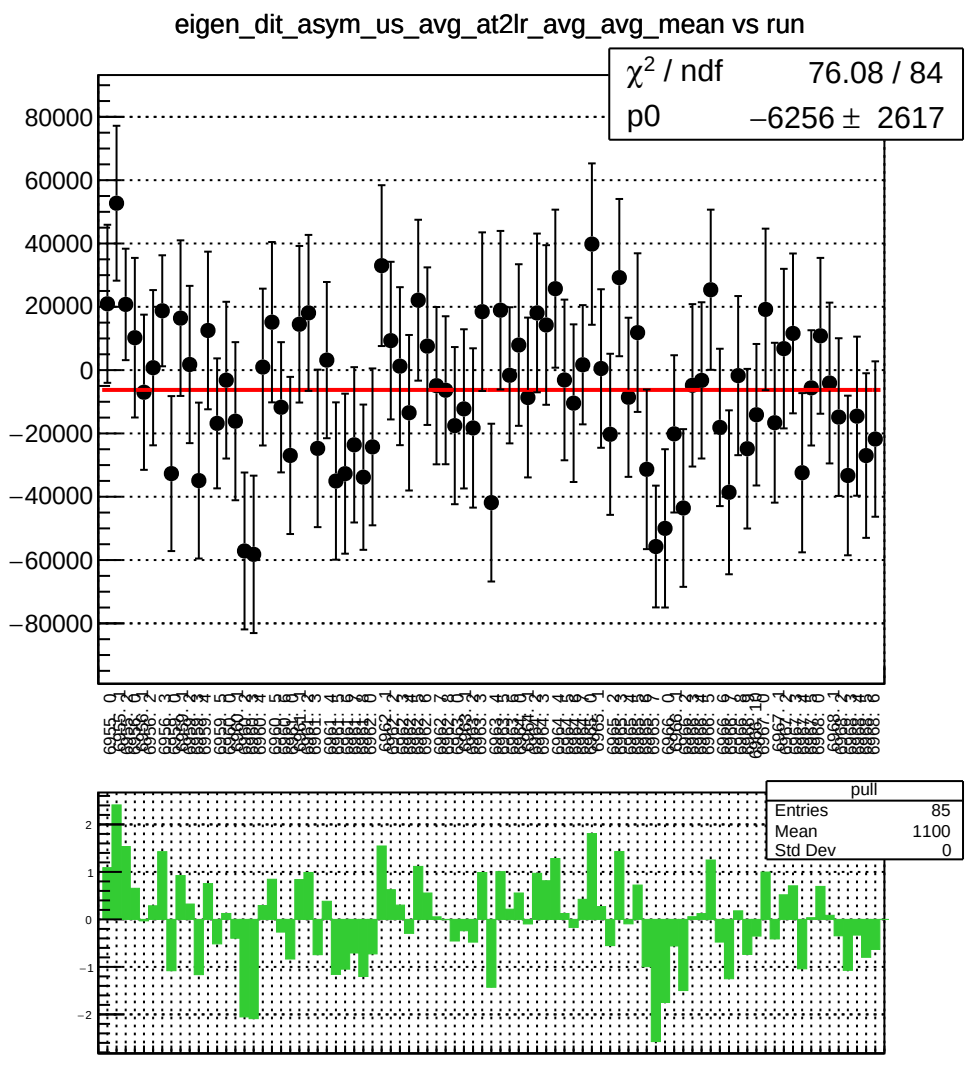

pull1D
Entries 85
Mean −0.003635
Std Dev 0.9461
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

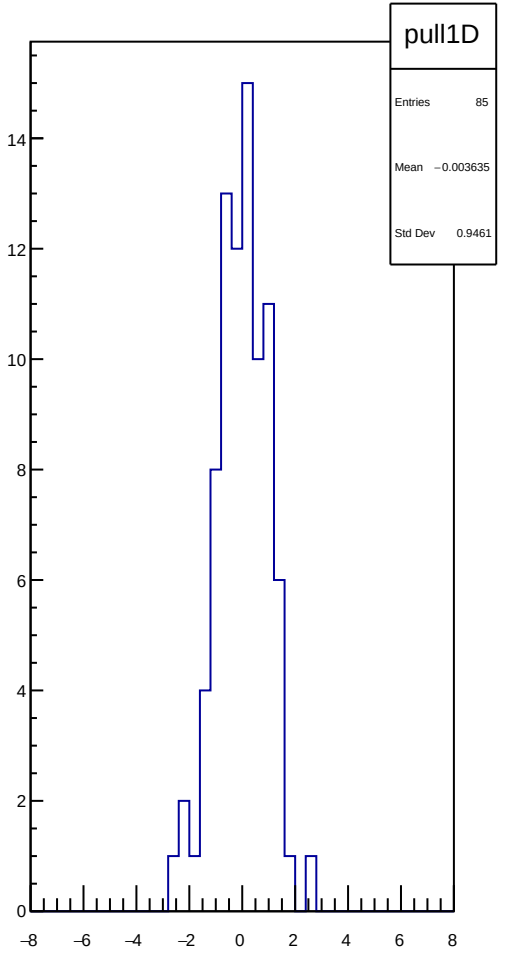

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 261.8 / 84
p0 2372 ± 1.851
2500
2450
2400
2350
2300

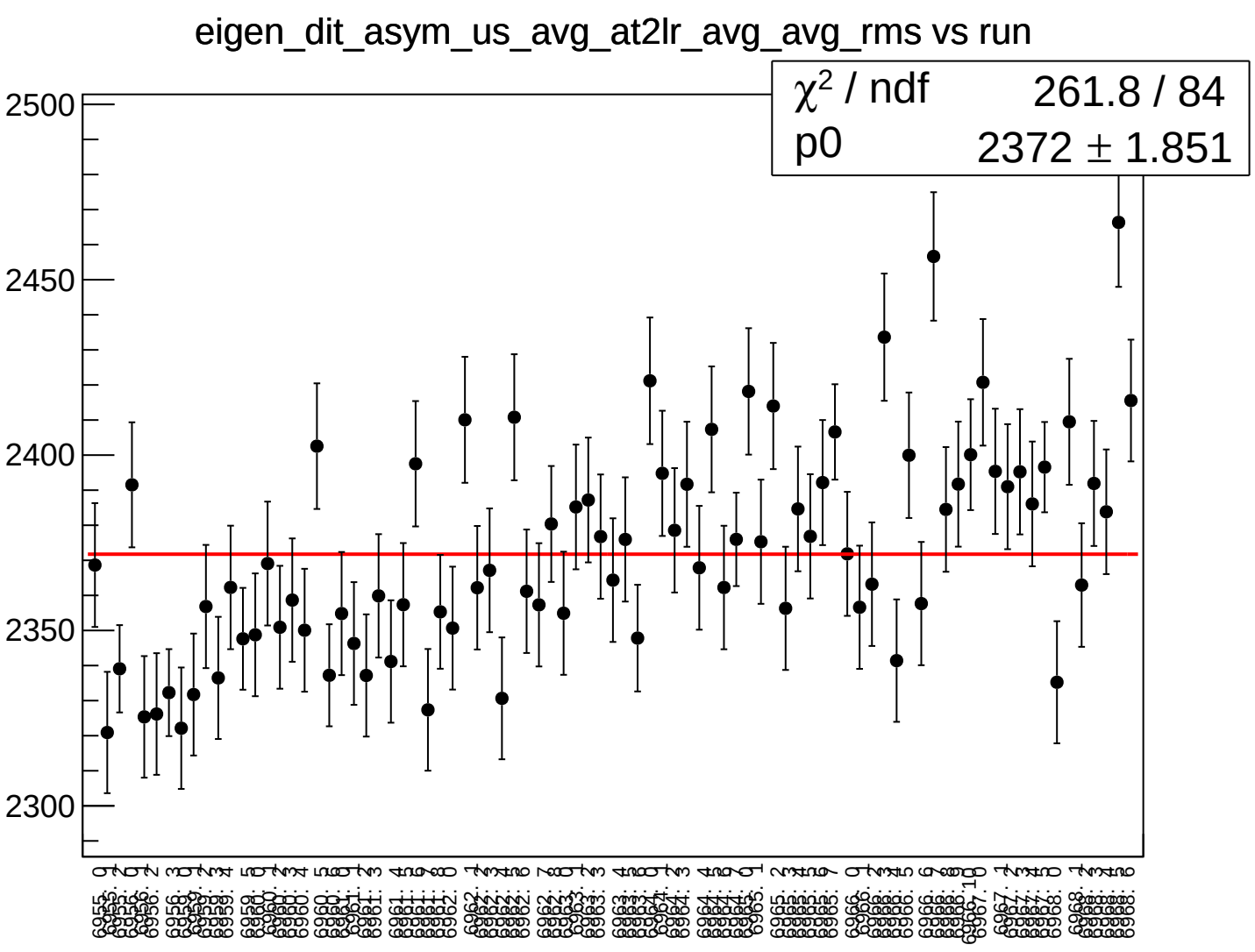

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 100.4 / 84
p0 −7245 ± 1.529e+04
400
200
0
−200
−400
−600
pull
Entries 85
Mean 38.48
Std Dev 64.26
2
1
0
−1
−2

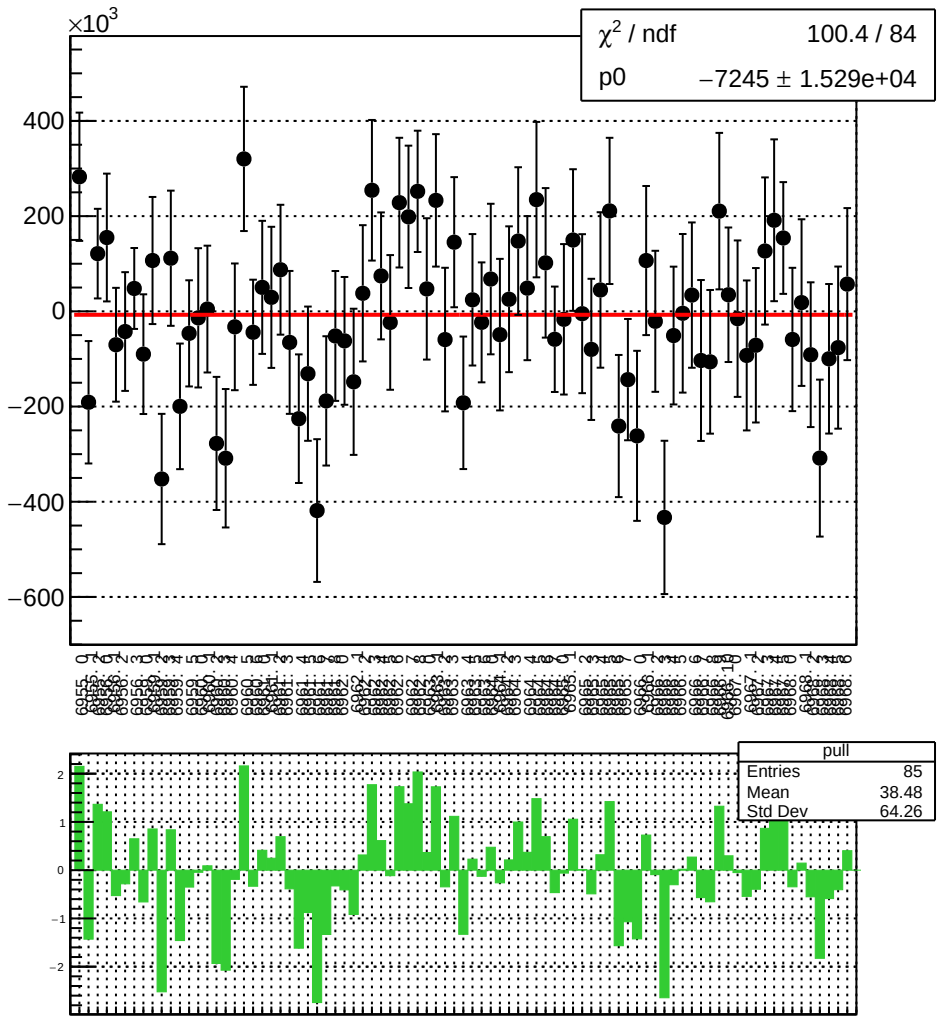

pull1D
Entries 85
Mean −0.01202
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

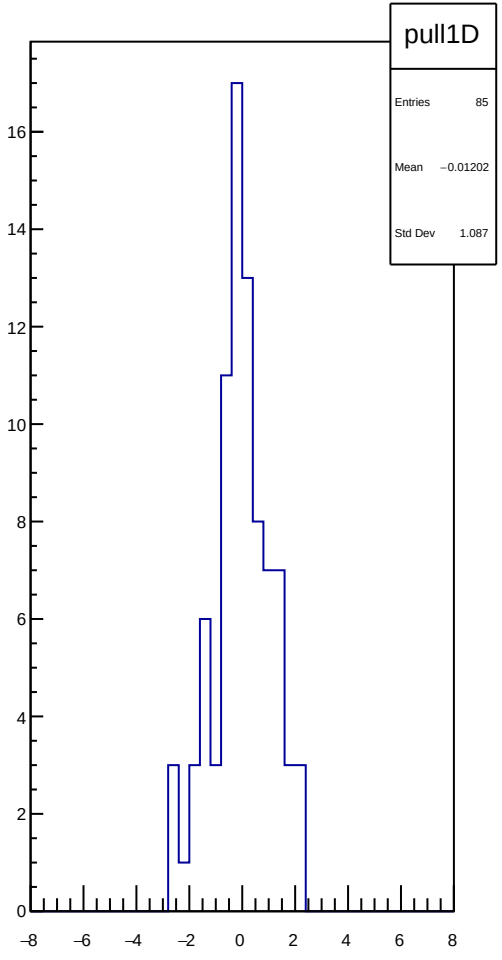

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
$\chi^2$ / ndf 1.372e+04 / 84
p0 1.38e+04 ± 10.81
17000
16000
15000
14000
13000
12000
11000

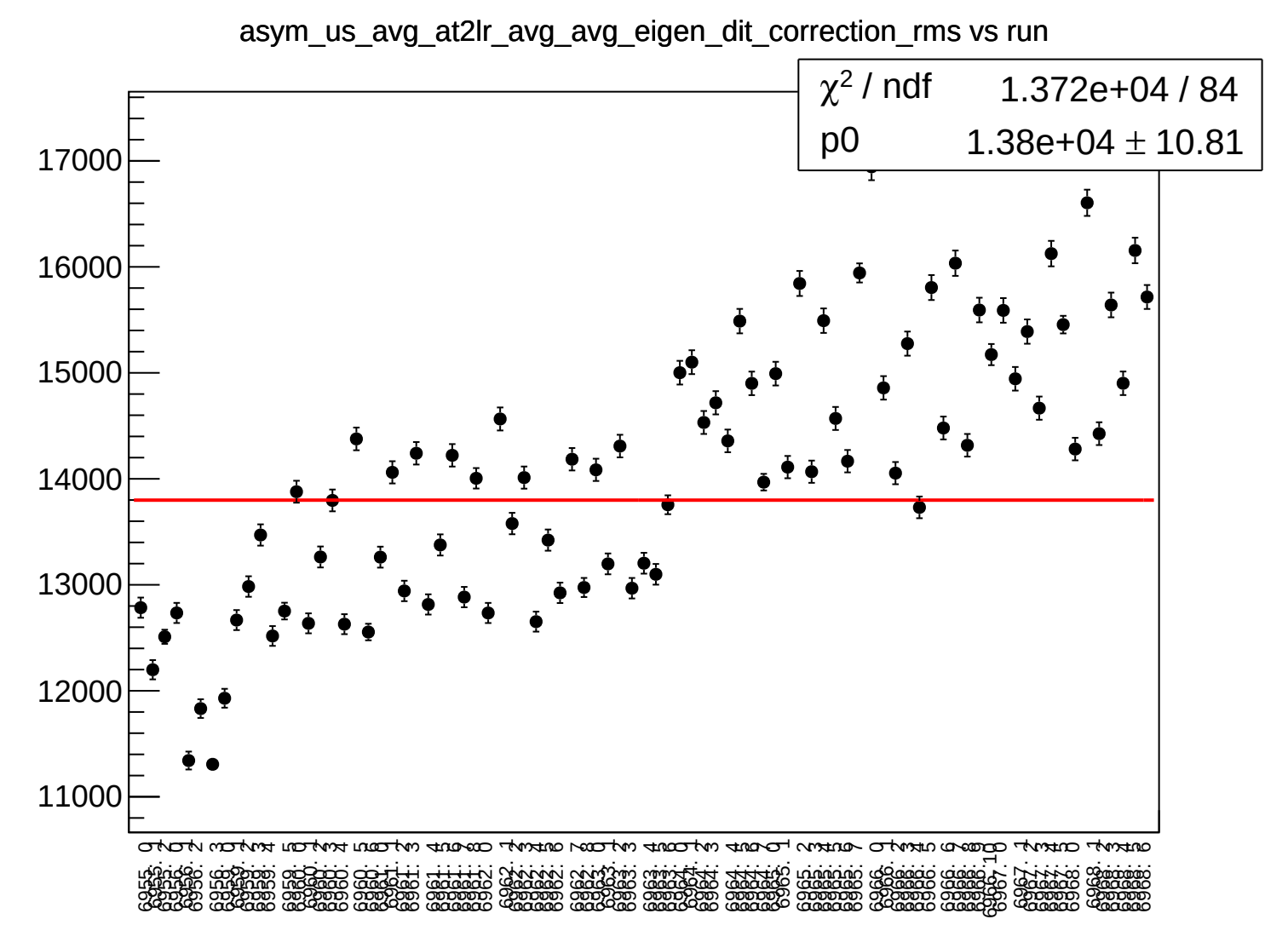

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 76.08 / 84
p0 −6256 ± 2617
pull
Entries 85
Mean 1100
Std Dev 0

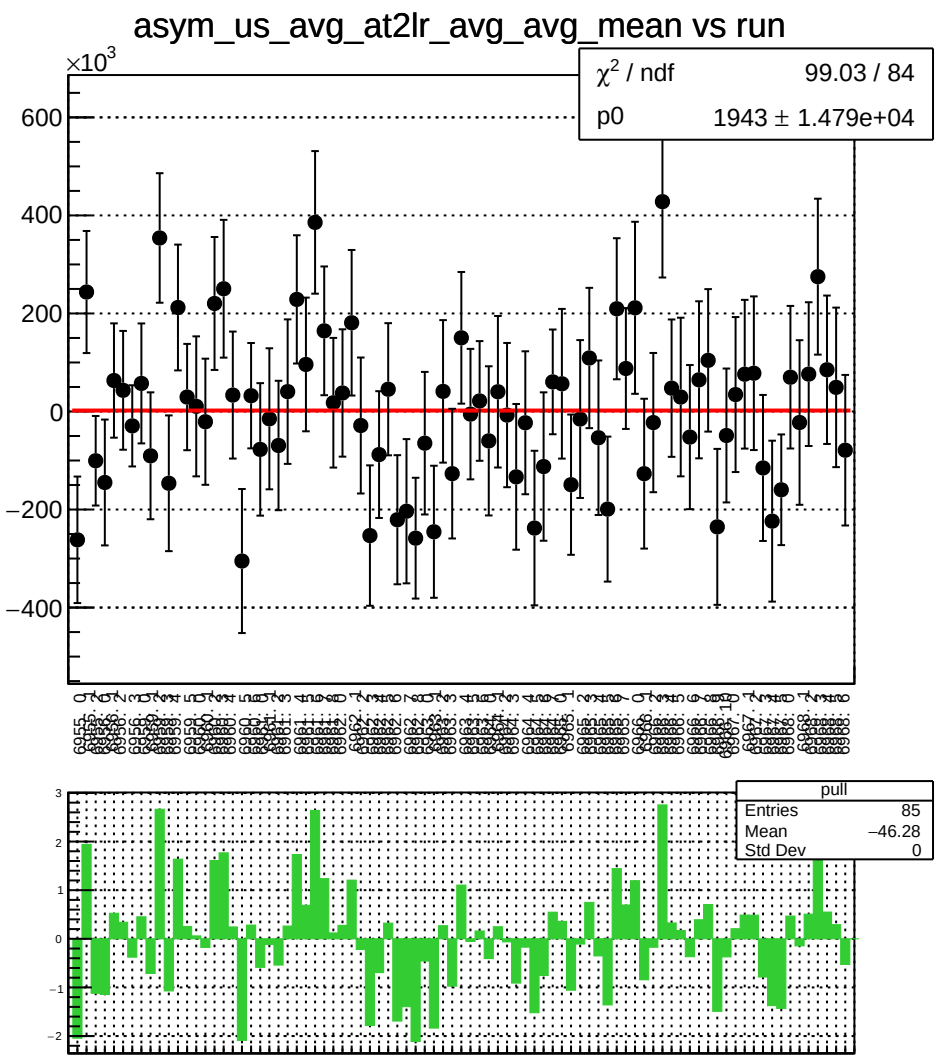

pull1D
Entries 85
Mean −0.003635
Std Dev 0.9461

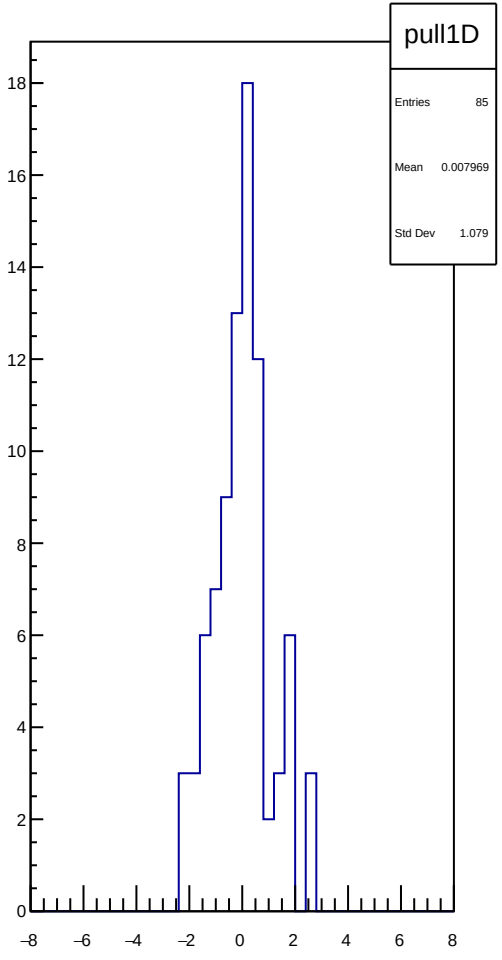

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 261.8 / 84
p0 2372 ± 1.851
2500
2450
2400
2350
2300

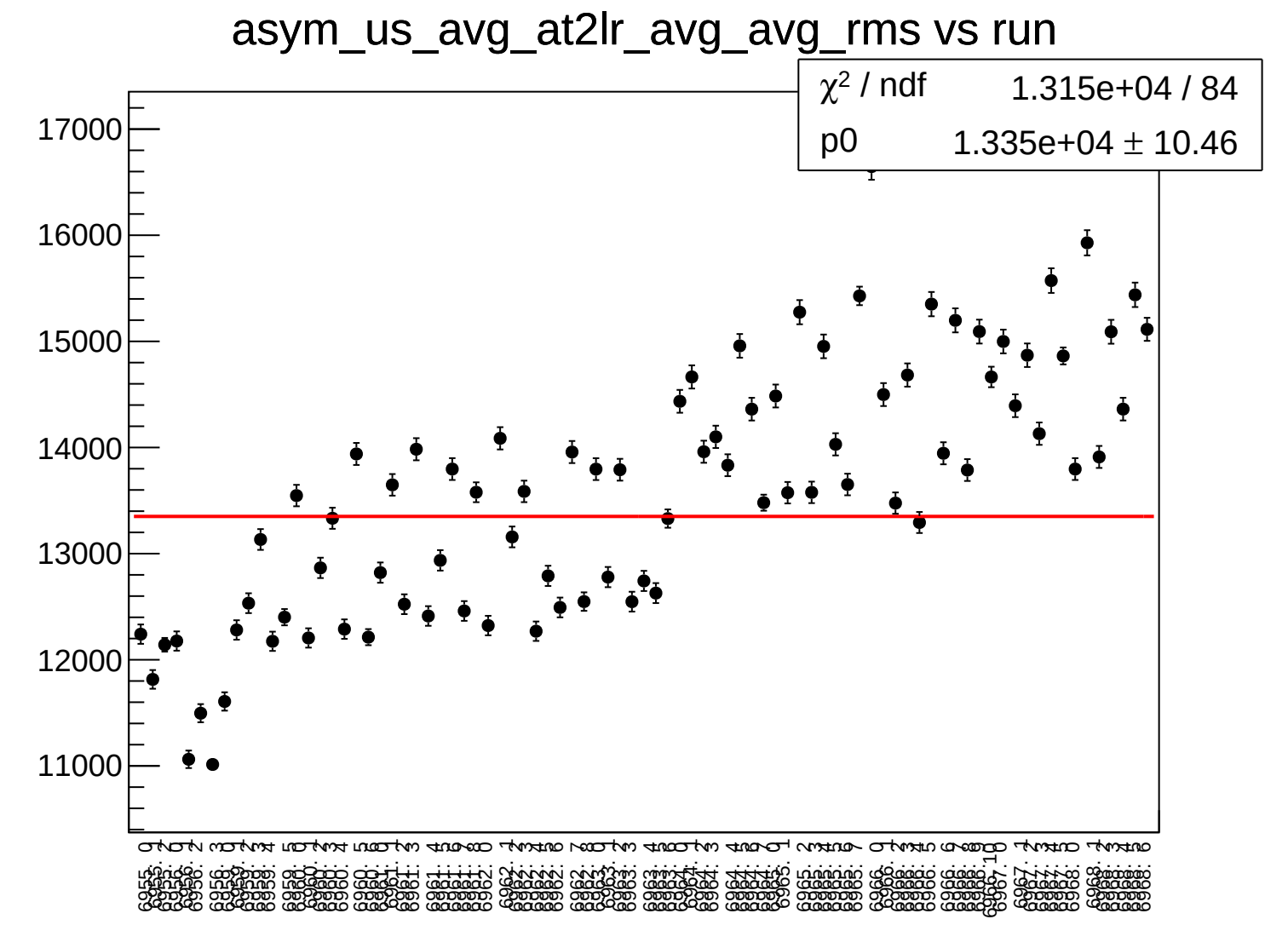

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.4 / 84
p0 −7245 ± 1.529e+04
400
200
0
−200
−400
−600
pull
Entries 85
Mean 38.48
Std Dev 64.26
2
1
0
−1
−2

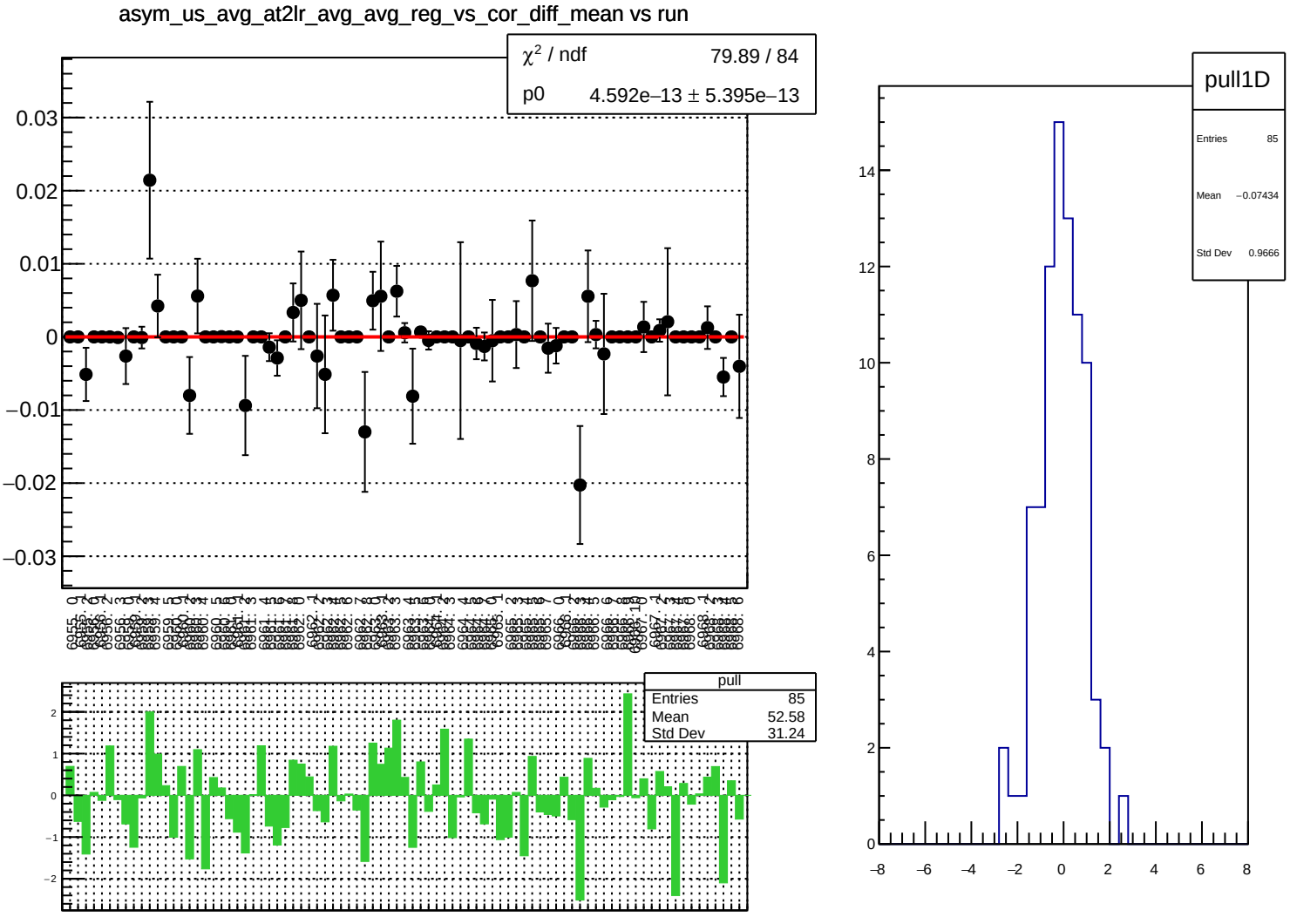

pull1D
Entries 85
Mean −0.01202
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

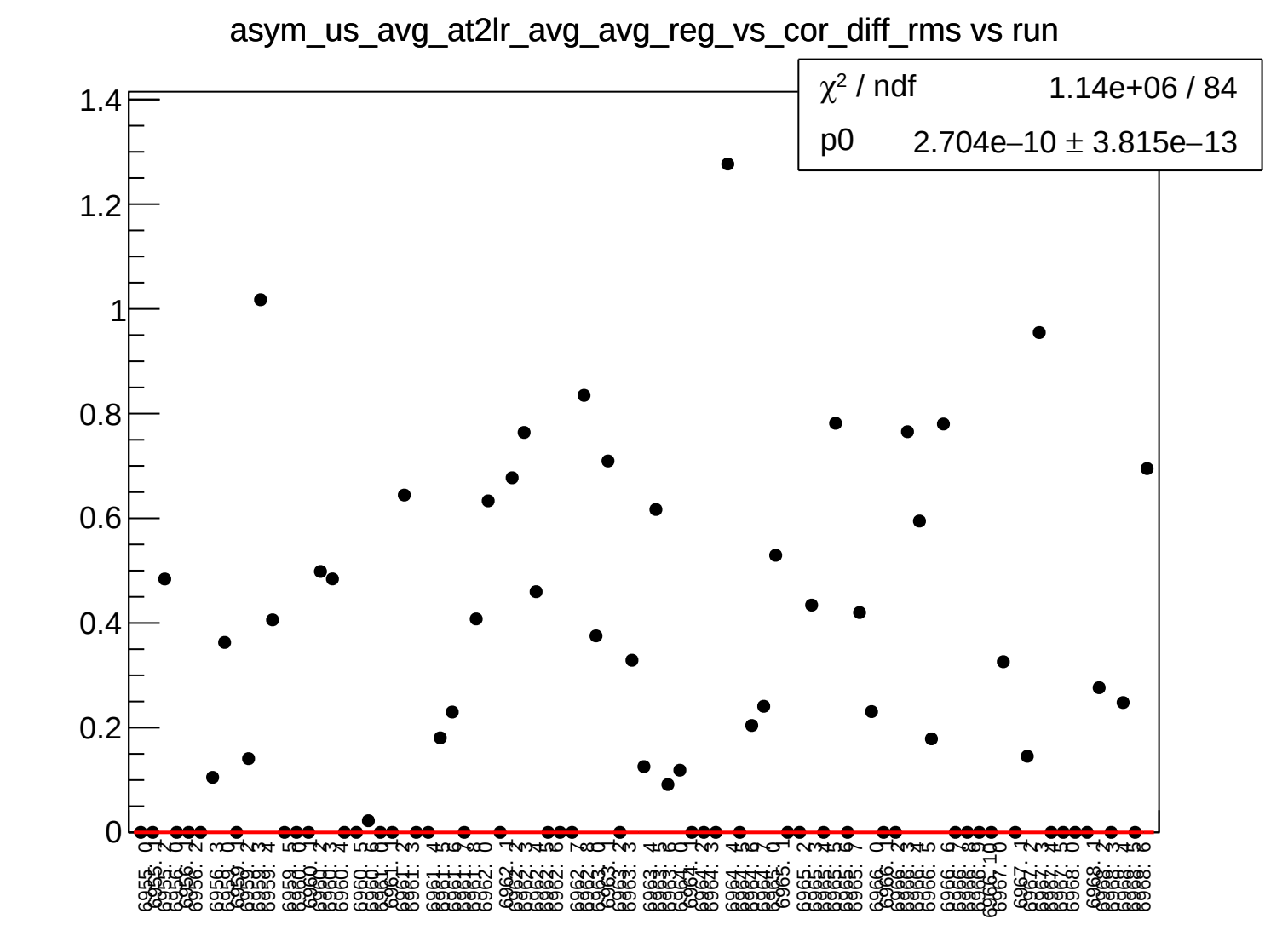

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 1.372e+04 / 84
p0 1.38e+04 ± 10.81
17000
16000
15000
14000
13000
12000
11000

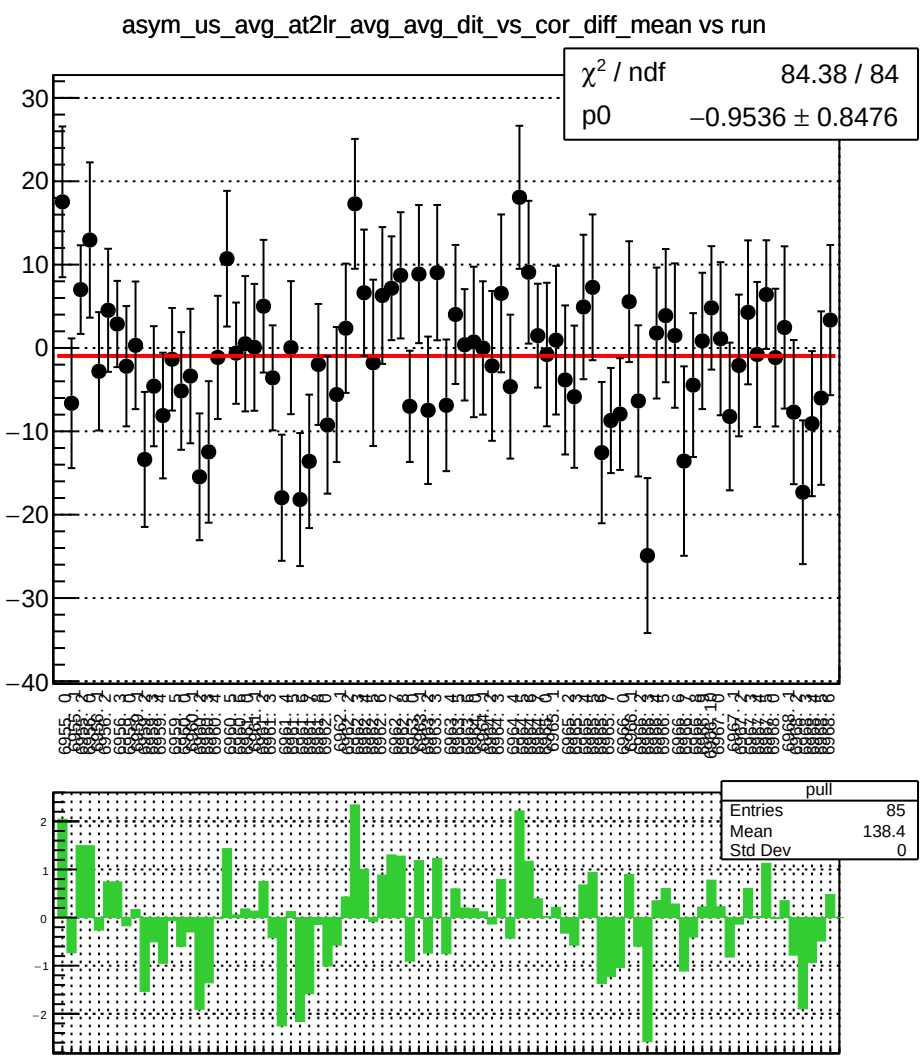

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 99.03 / 84
p0 1943 ± 1.479e+04
600
400
200
0
−200
−400
pull
Entries 85
Mean −46.28
Std Dev 0
3
2
1
0
−1
−2

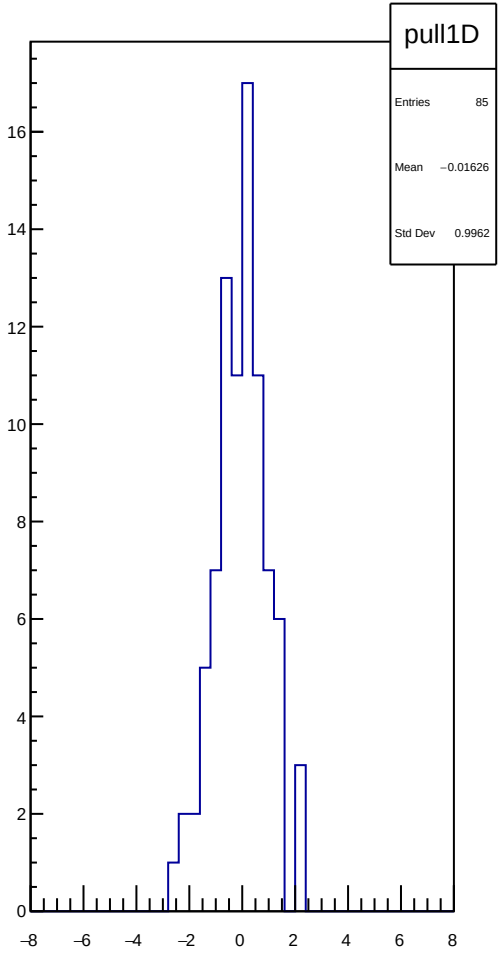

pull1D
Entries 85
Mean 0.007969
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

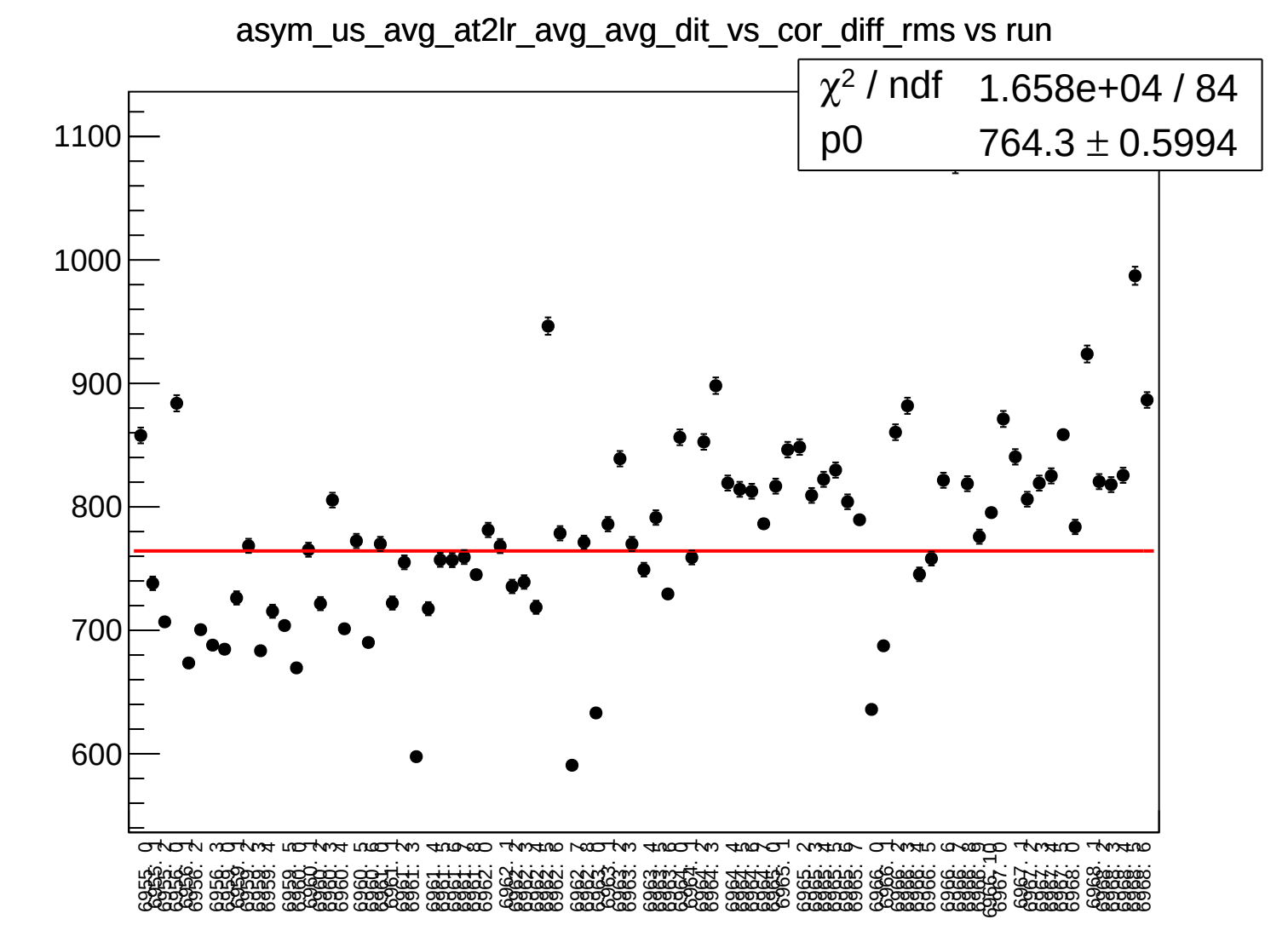

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.315e+04 / 84
p0 1.335e+04 ± 10.46
17000
16000
15000
14000
13000
12000
11000

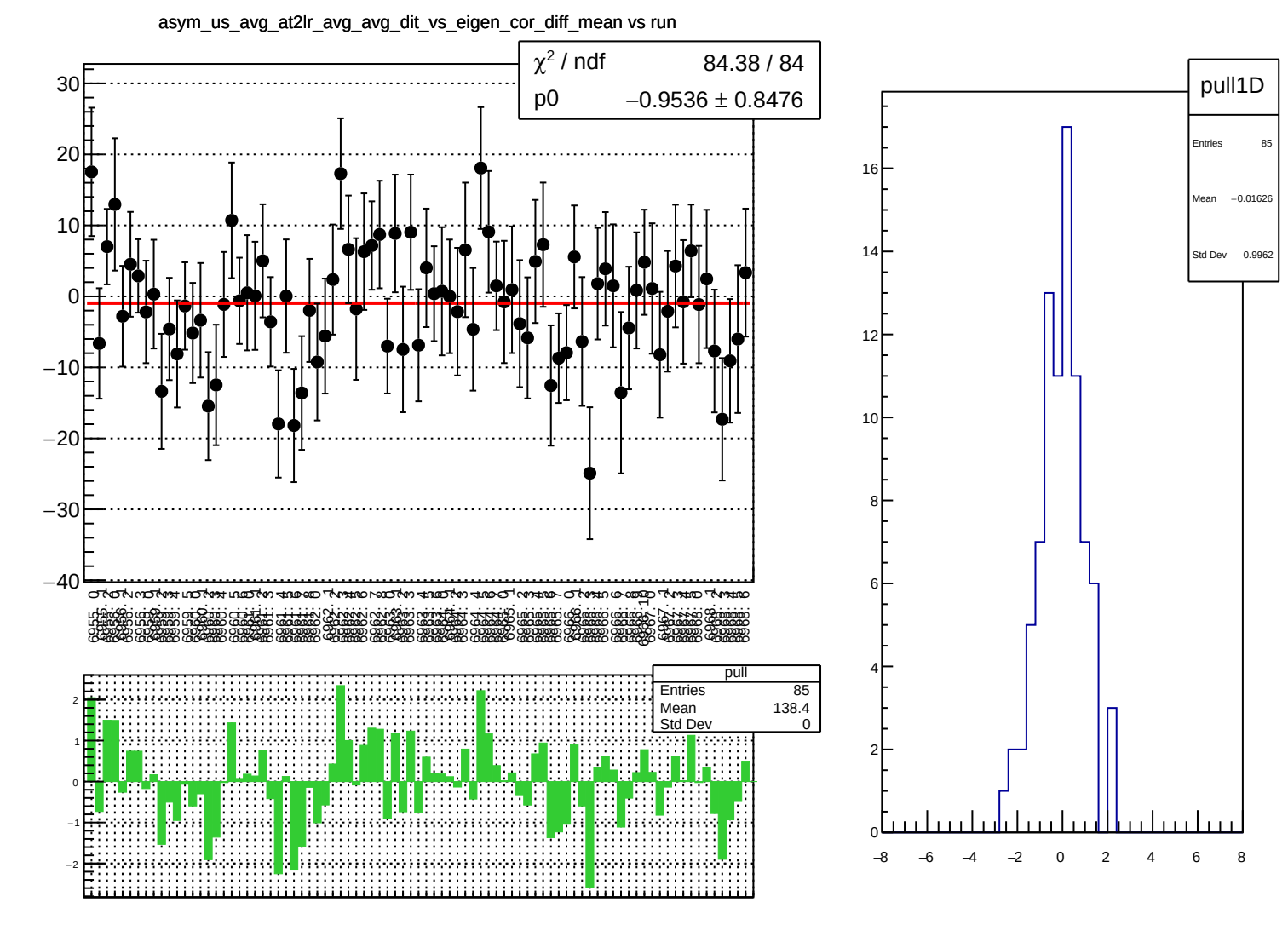

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.89 / 84
p0 4.592e−13 ± 5.395e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean 52.58
Std Dev 31.24
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.07434
Std Dev 0.9666
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

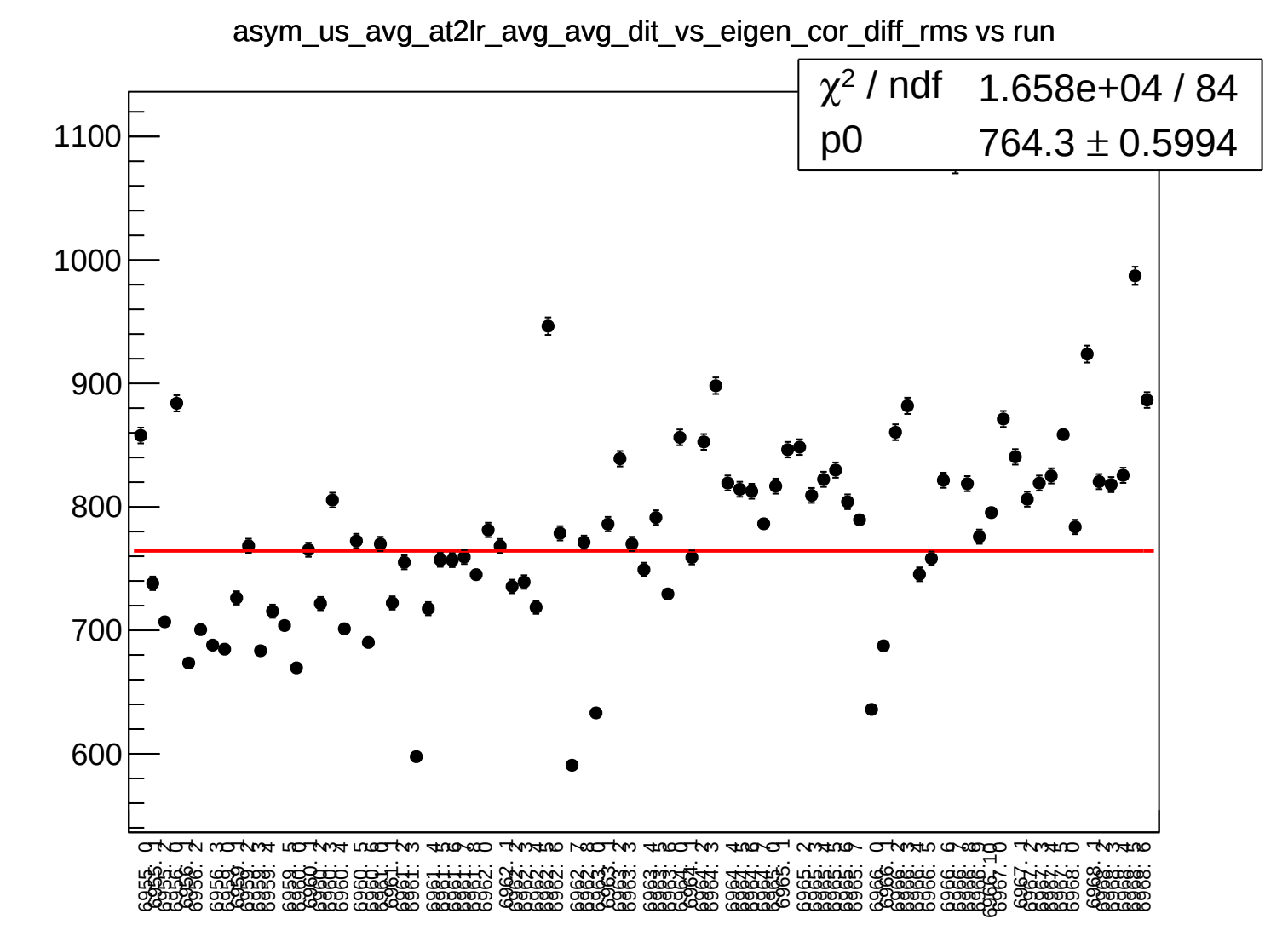

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.14e+06 / 84
p0 2.704e−10 ± 3.815e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

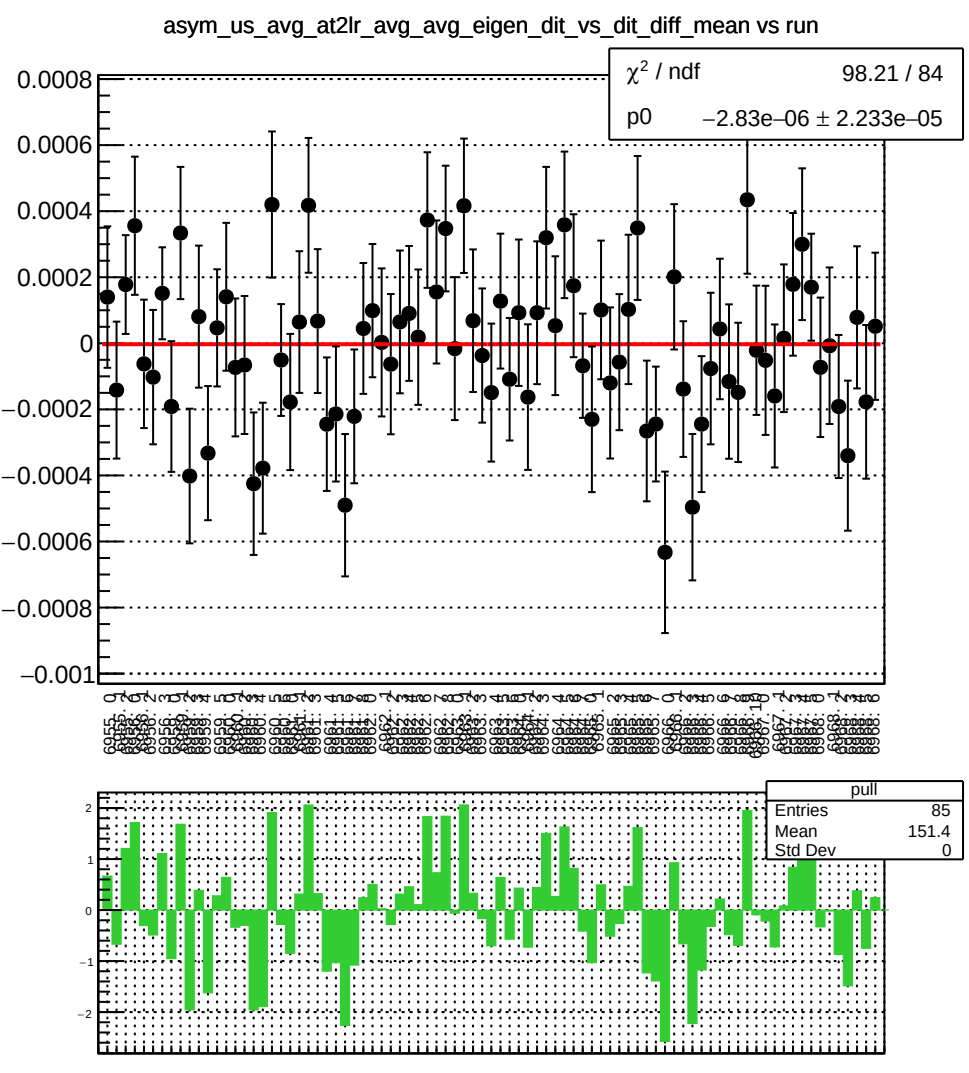

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.38 / 84
p0 −0.9536 ± 0.8476
pull
Entries 85
Mean 138.4
Std Dev 0

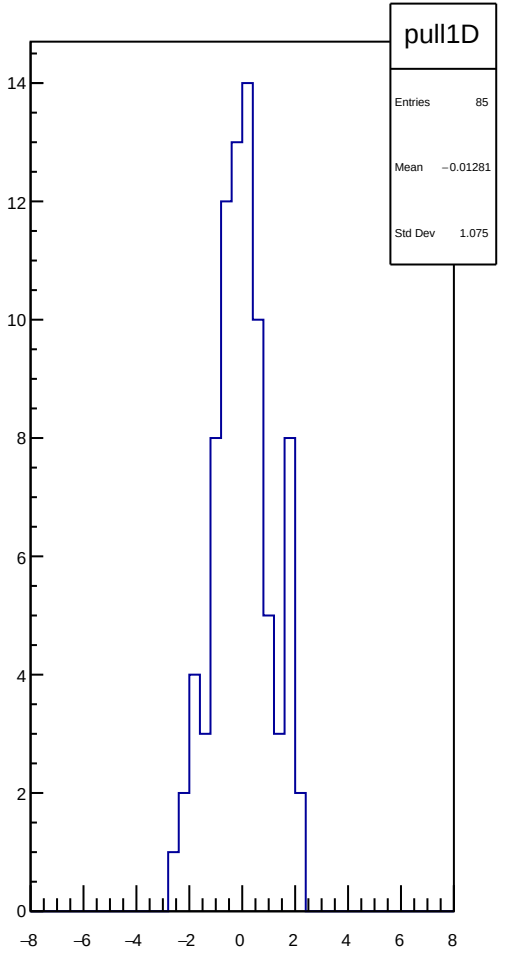

pull1D
Entries 85
Mean −0.01626
Std Dev 0.9962

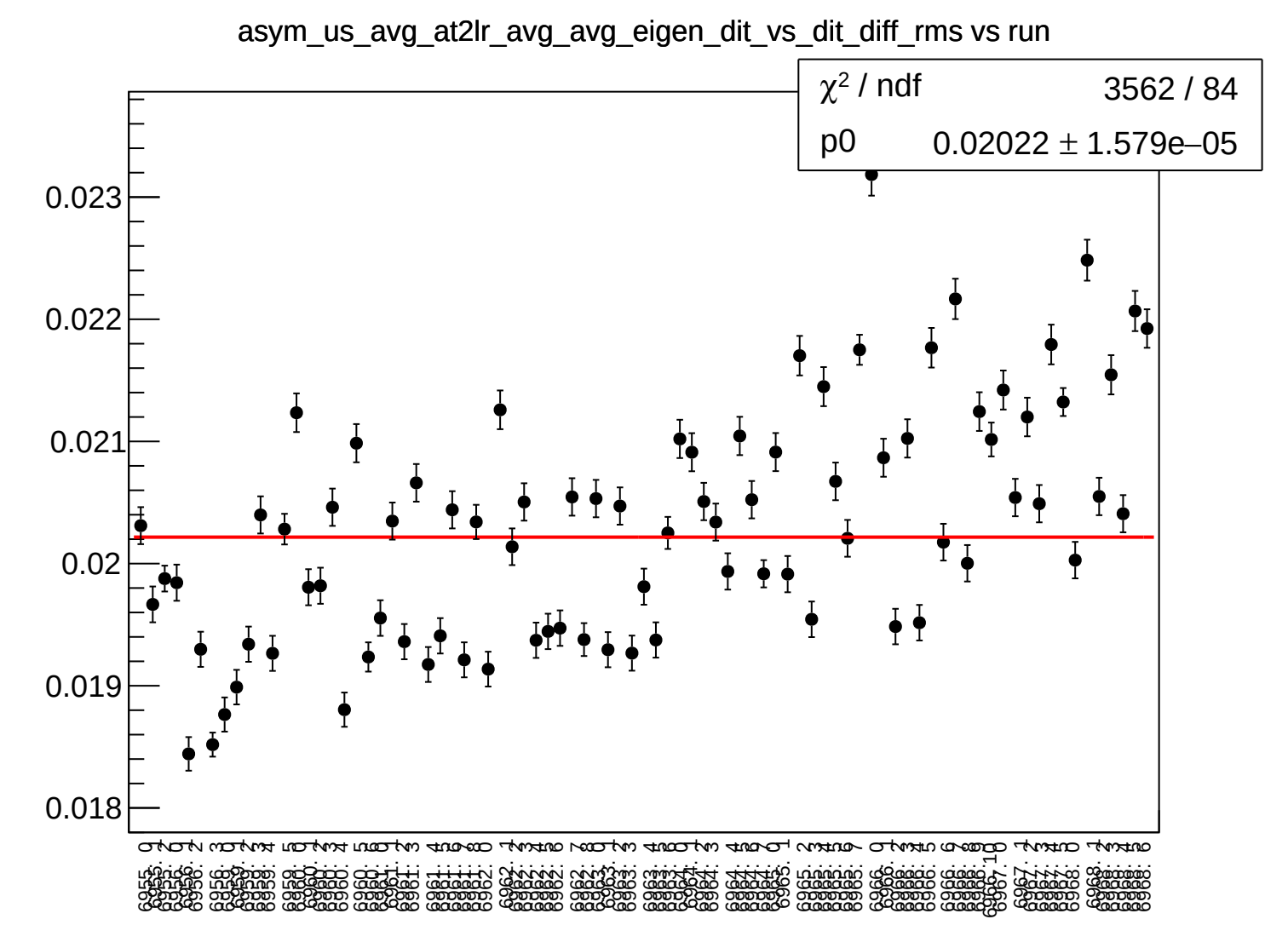

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.658e+04 / 84
p0 764.3 ± 0.5994
1100
1000
900
800
700
600

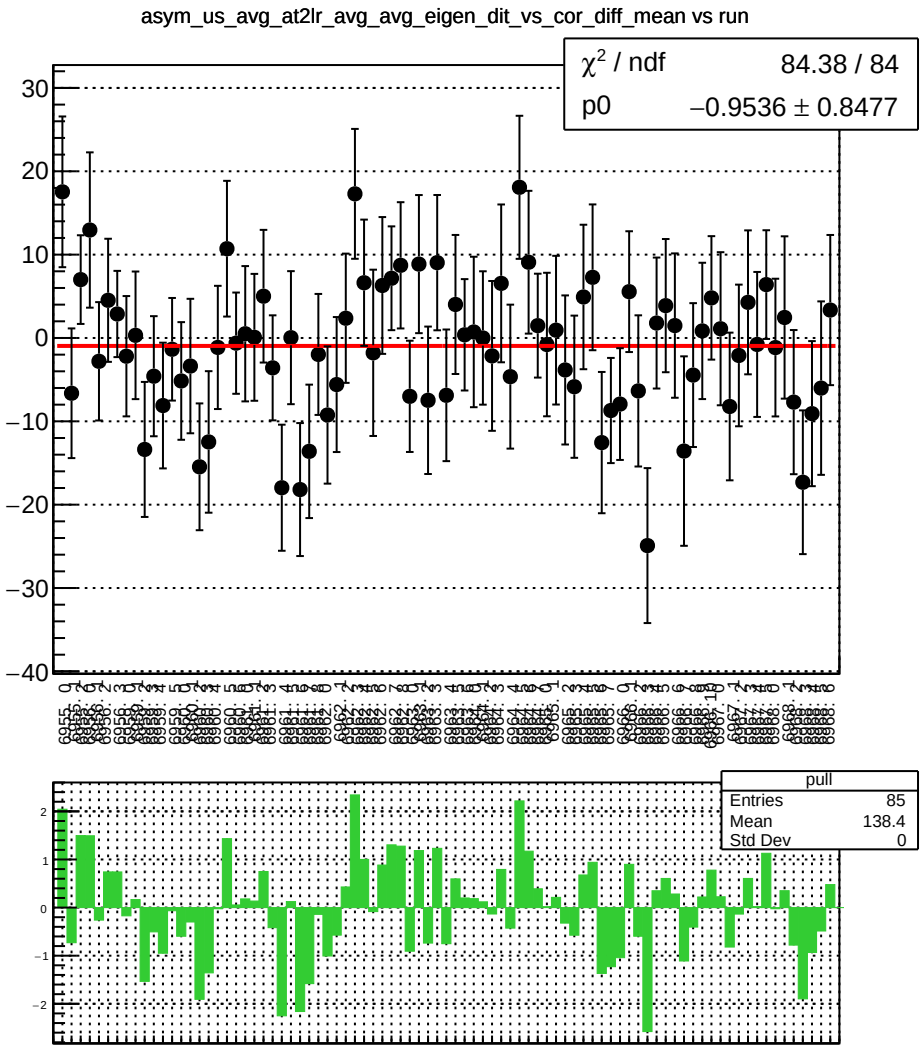

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.38 / 84
p0 −0.9536 ± 0.8476
pull
Entries 85
Mean 138.4
Std Dev 0
pull1D
Entries 85
Mean −0.01626
Std Dev 0.9962

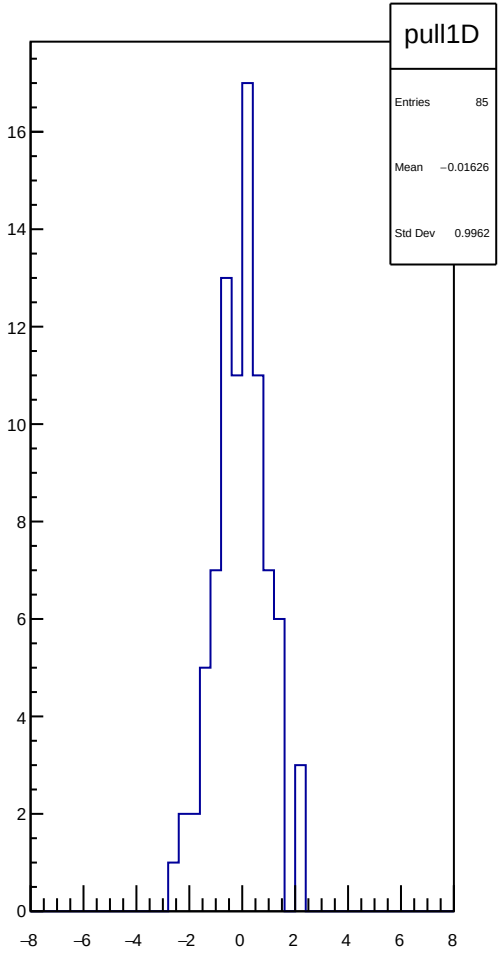

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.658e+04 / 84
p0 764.3 ± 0.5994
1100
1000
900
800
700
600

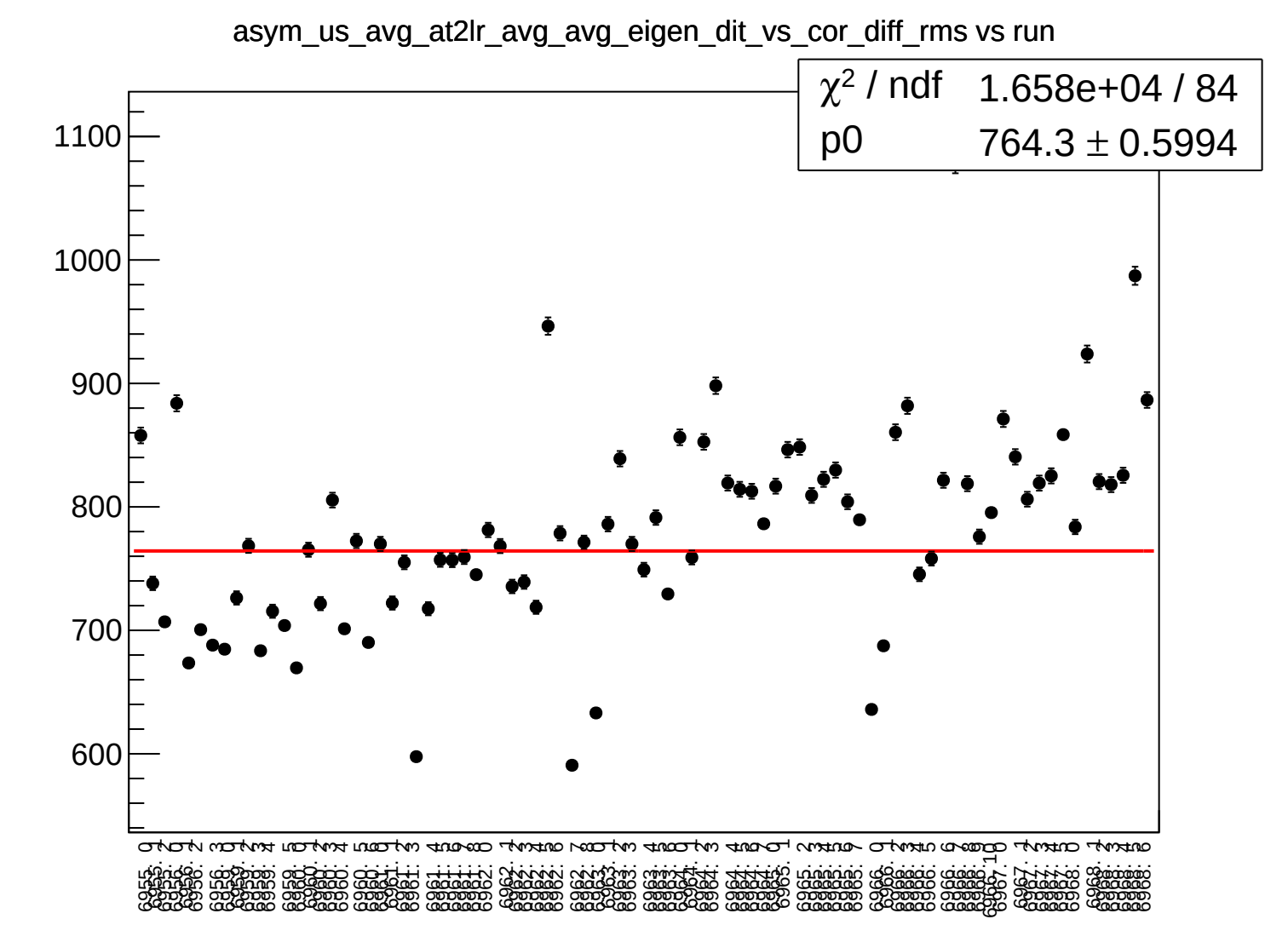

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 98.21 / 84
p0 −2.83e−06 ± 2.233e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 85
Mean 151.4
Std Dev 0
2
1
0
−1
−2

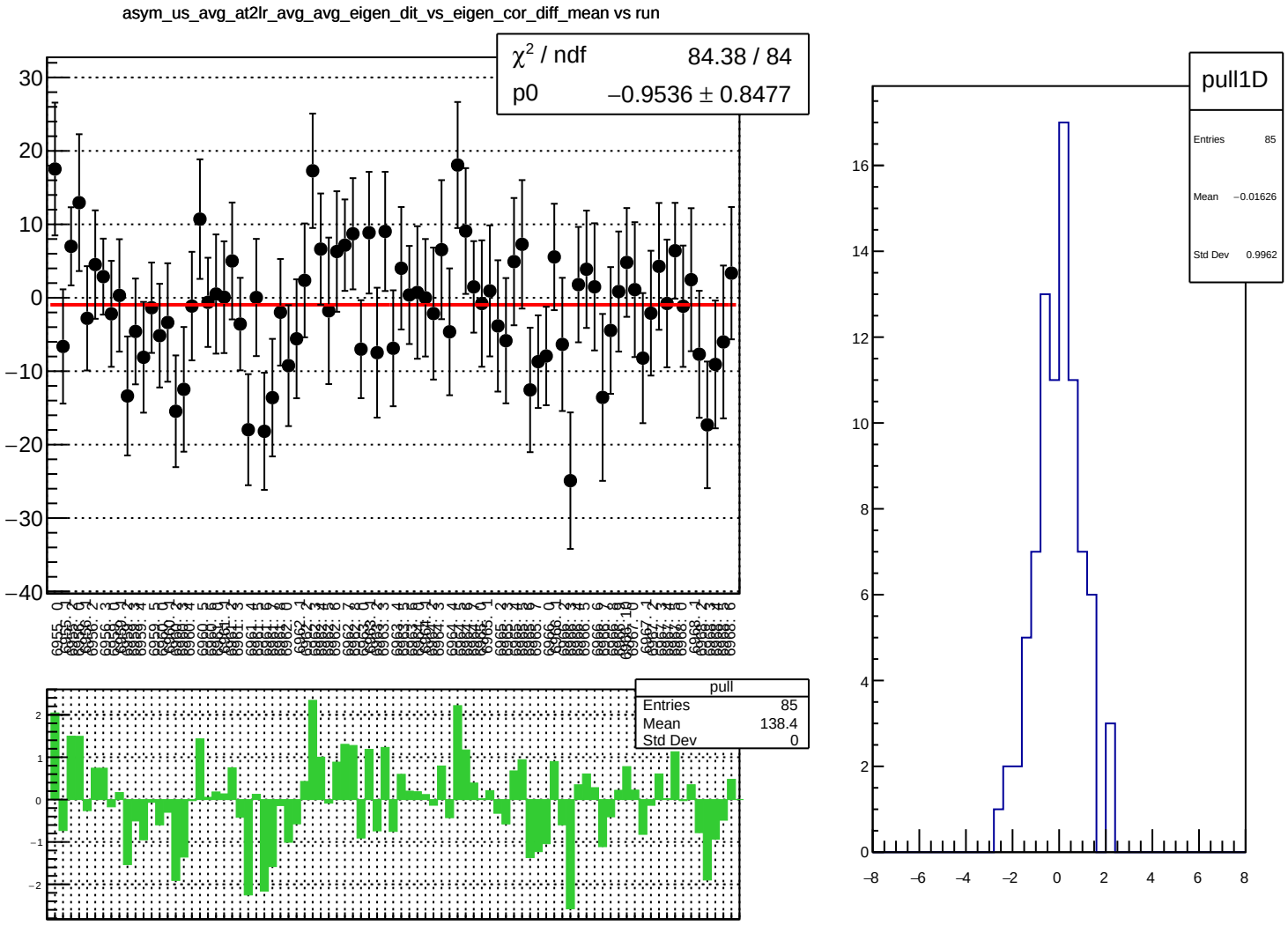

pull1D
Entries 85
Mean −0.01281
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

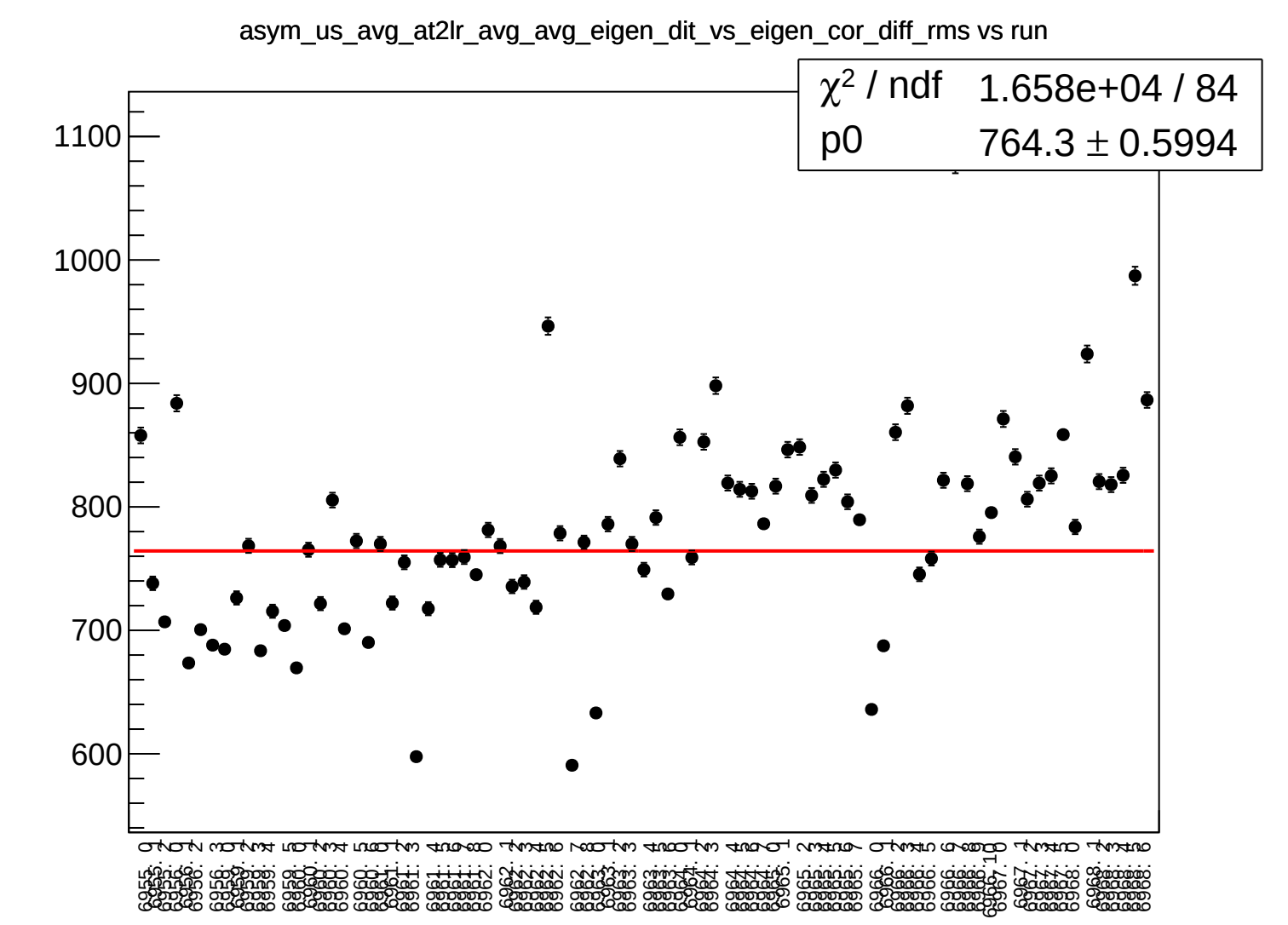

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3562 / 84
p0 0.02022 ± 1.579e−05
0.023
0.022
0.021
0.02
0.019
0.018

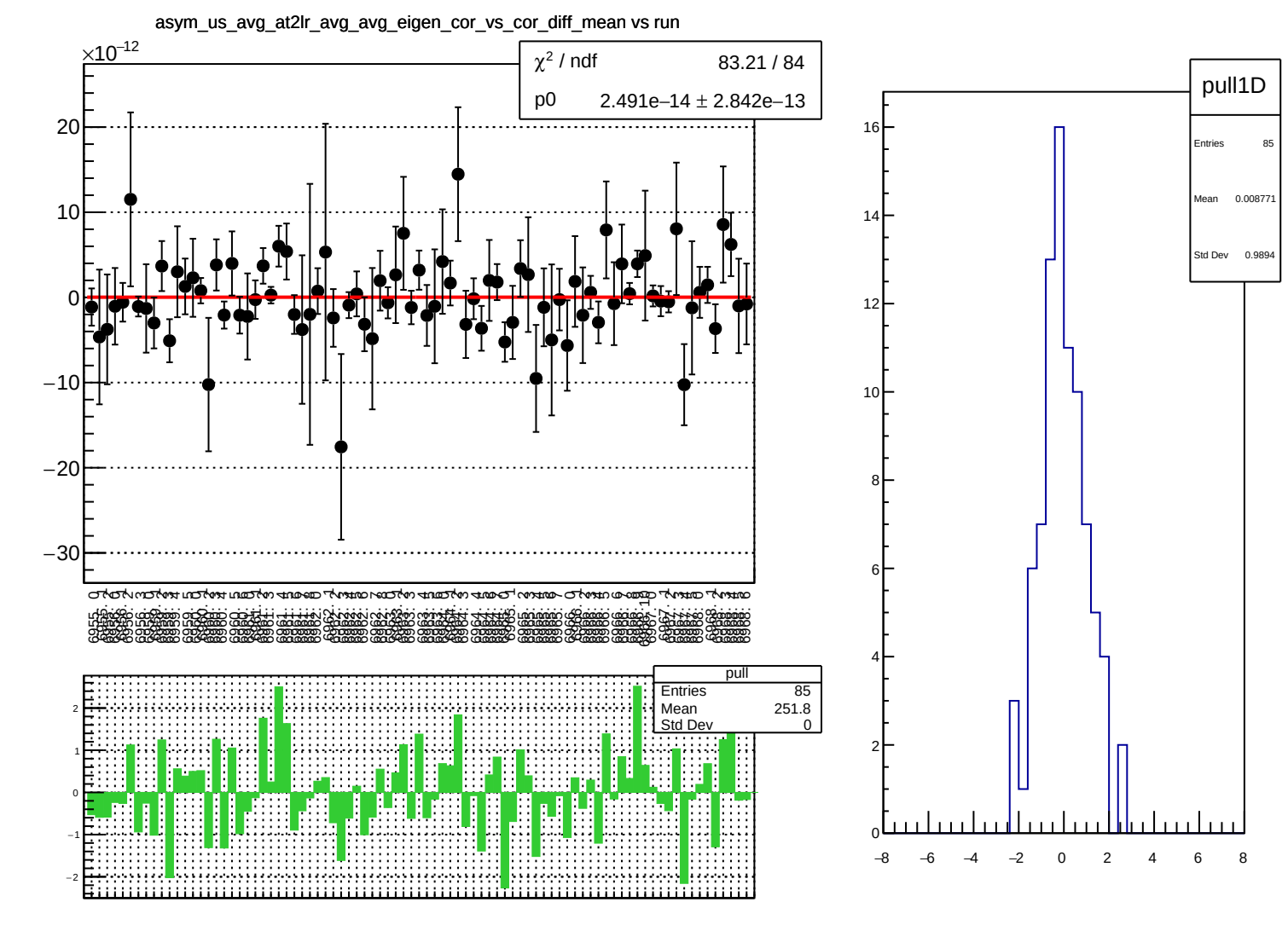

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.38 / 84
p0 −0.9536 ± 0.8477
pull
Entries 85
Mean 138.4
Std Dev 0

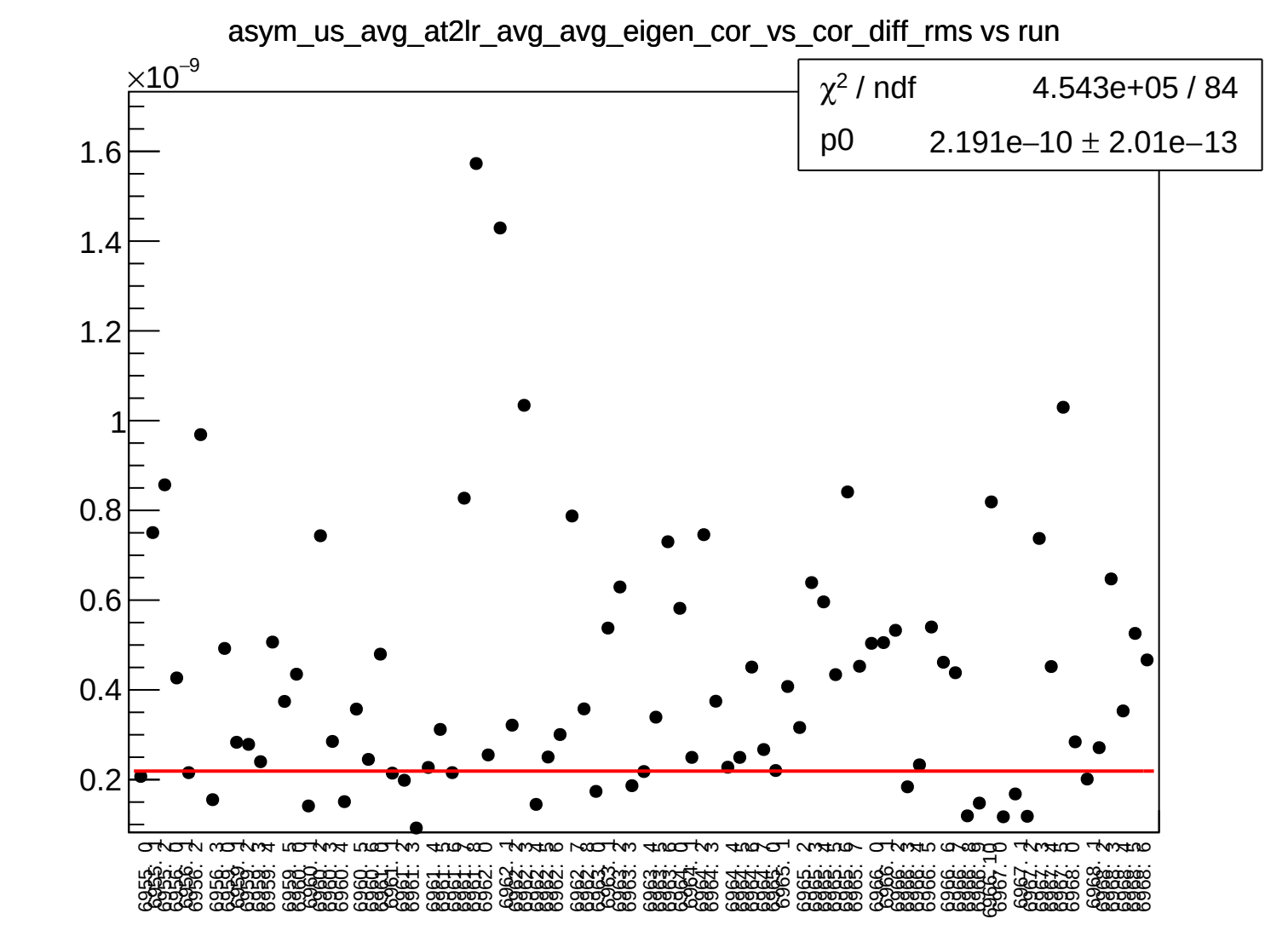

pull1D
Entries 85
Mean −0.01626
Std Dev 0.9962

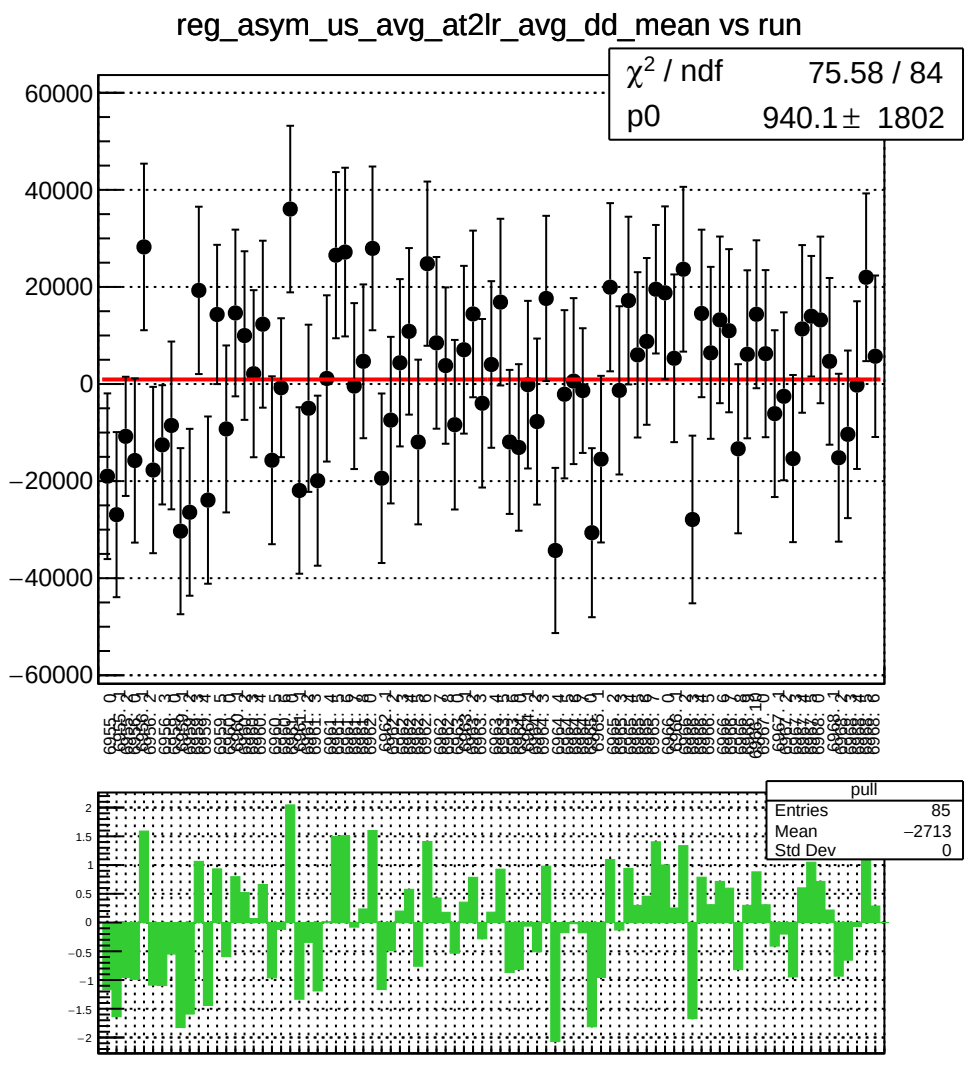

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.658e+04 / 84
p0 764.3 ± 0.5994
1100
1000
900
800
700
600

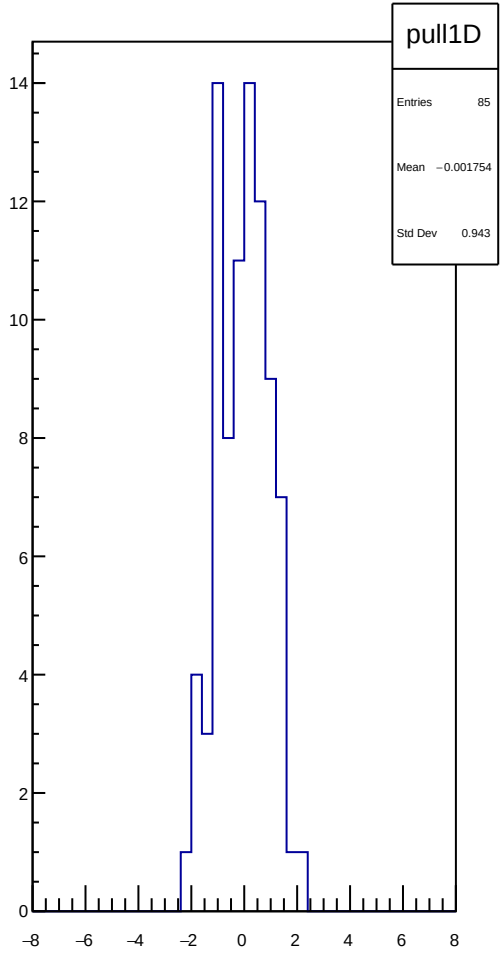

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.38 / 84
p0 −0.9536 ± 0.8477
pull
Entries 85
Mean 138.4
Std Dev 0
pull1D
Entries 85
Mean −0.01626
Std Dev 0.9962

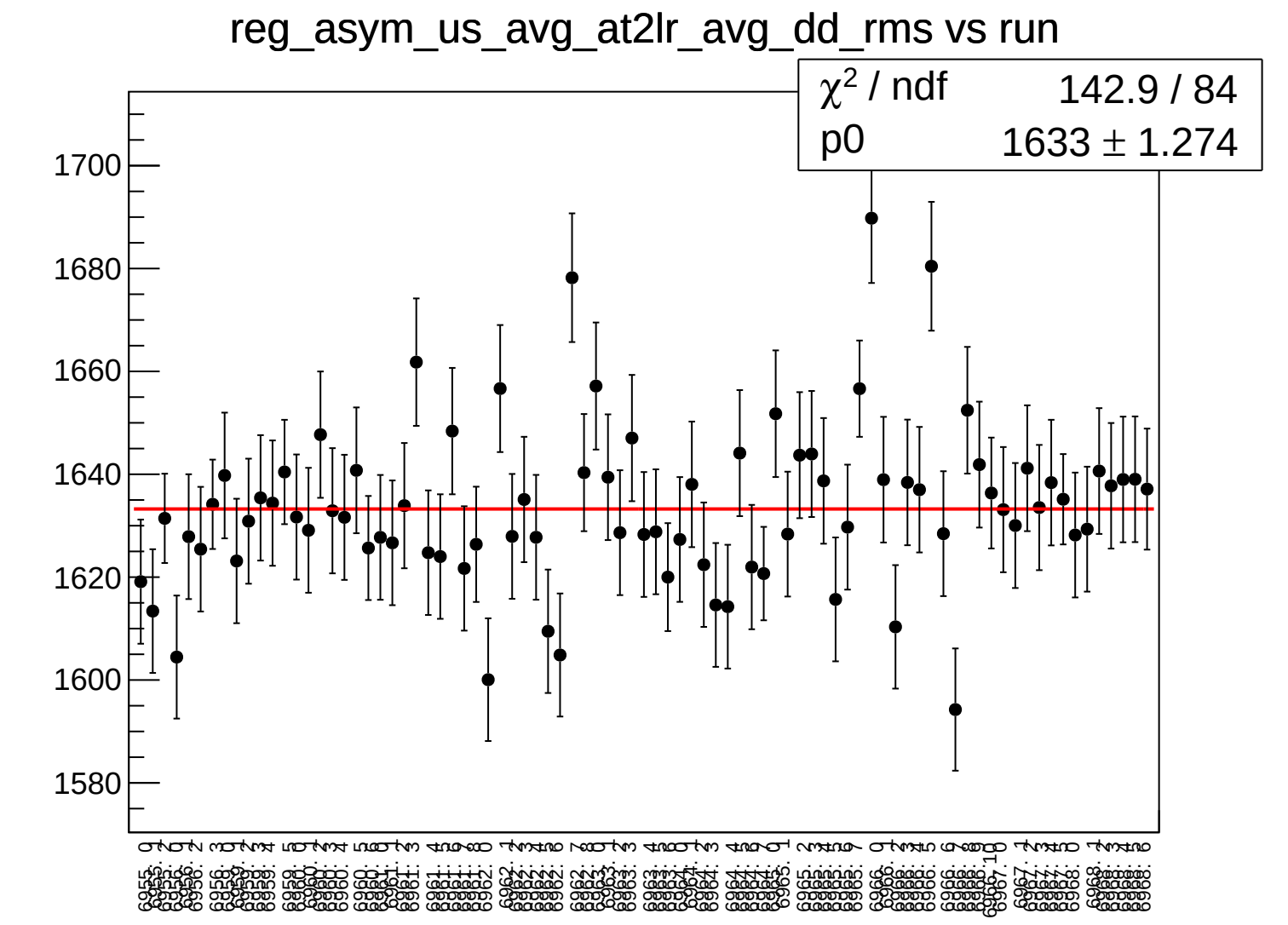

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.658e+04 / 84
p0 764.3 ± 0.5994
1100
1000
900
800
700
600

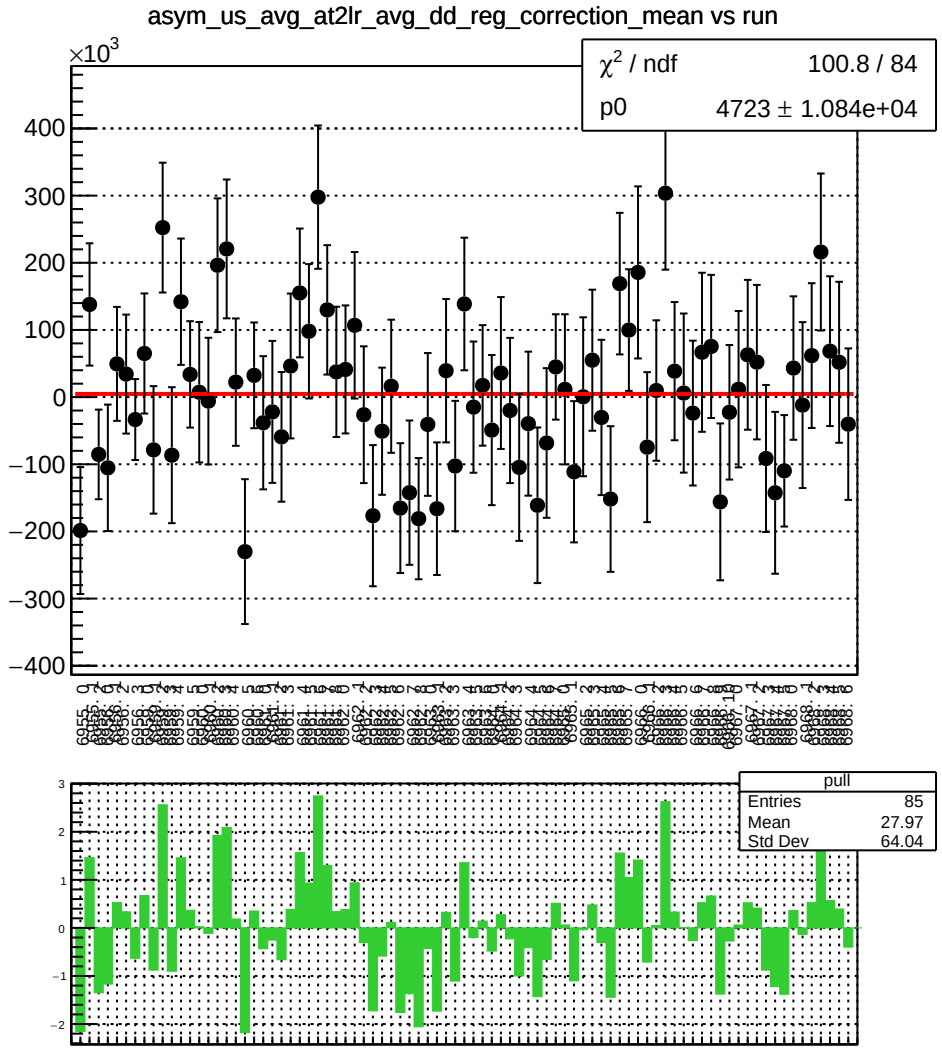

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.21 / 84
p0 2.491e−14 ± 2.842e−13
pull
Entries 85
Mean 251.8
Std Dev 0
pull1D
Entries 85
Mean 0.008771
Std Dev 0.9894

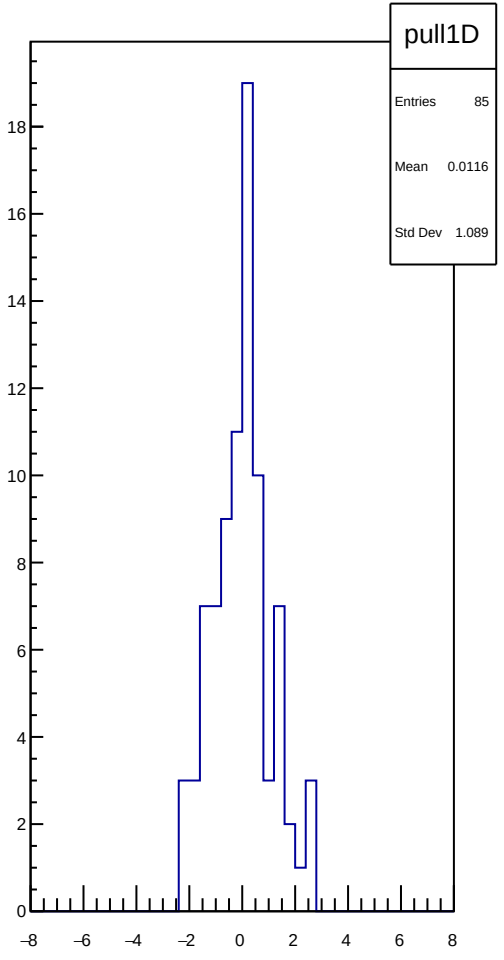

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.543e+05 / 84
p0 2.191e−10 ± 2.01e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

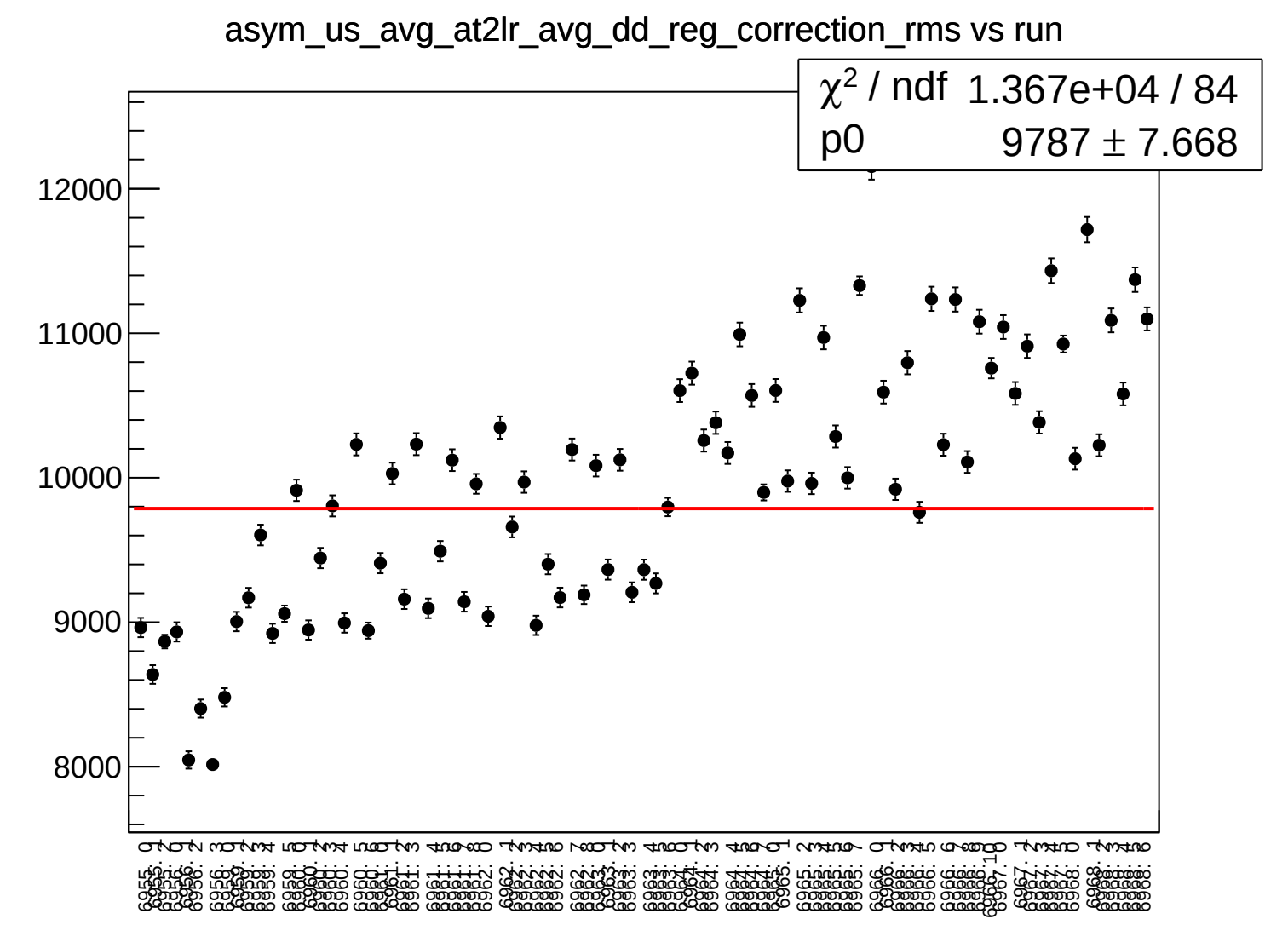

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 75.58 / 84
p0 940.1 ± 1802
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −2713
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

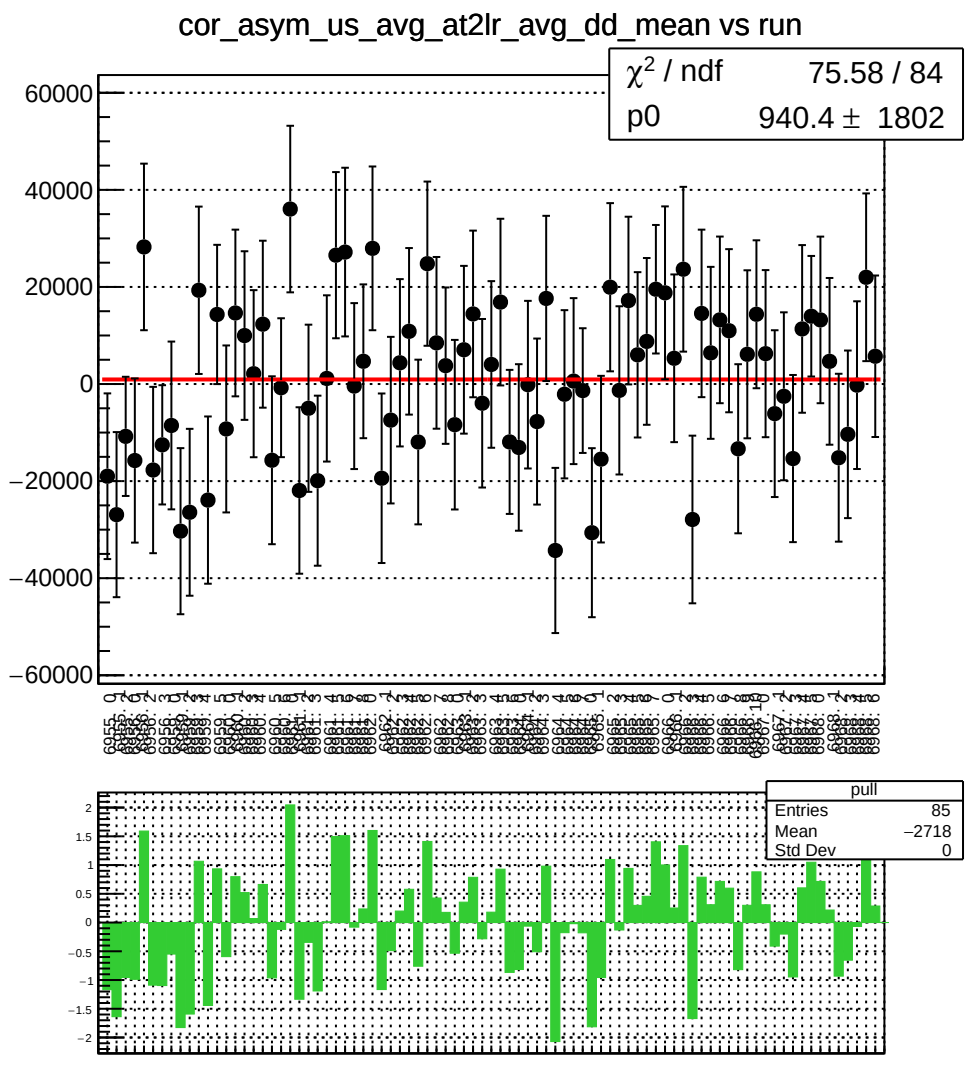

pull1D
Entries 85
Mean −0.001754
Std Dev 0.943
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

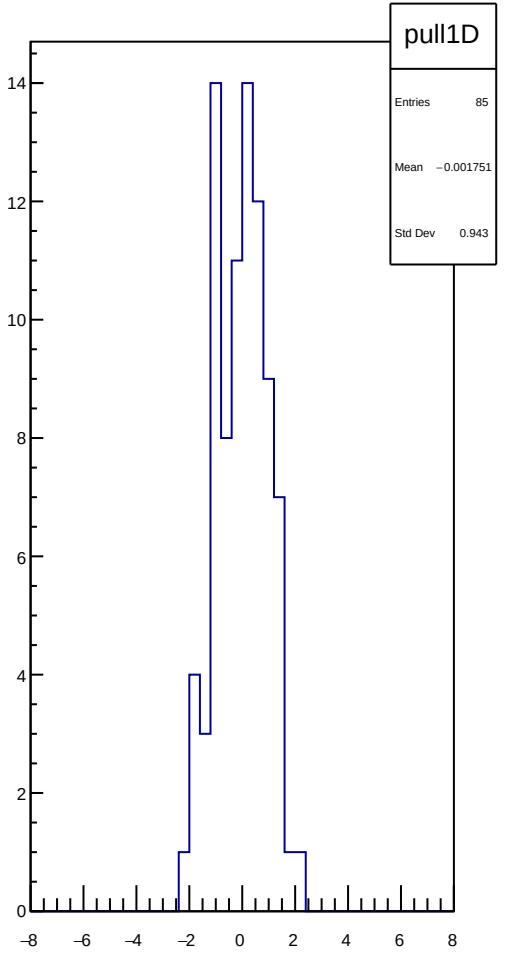

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 142.9 / 84
p0 1633 ± 1.274
1700
1680
1660
1640
1620
1600
1580

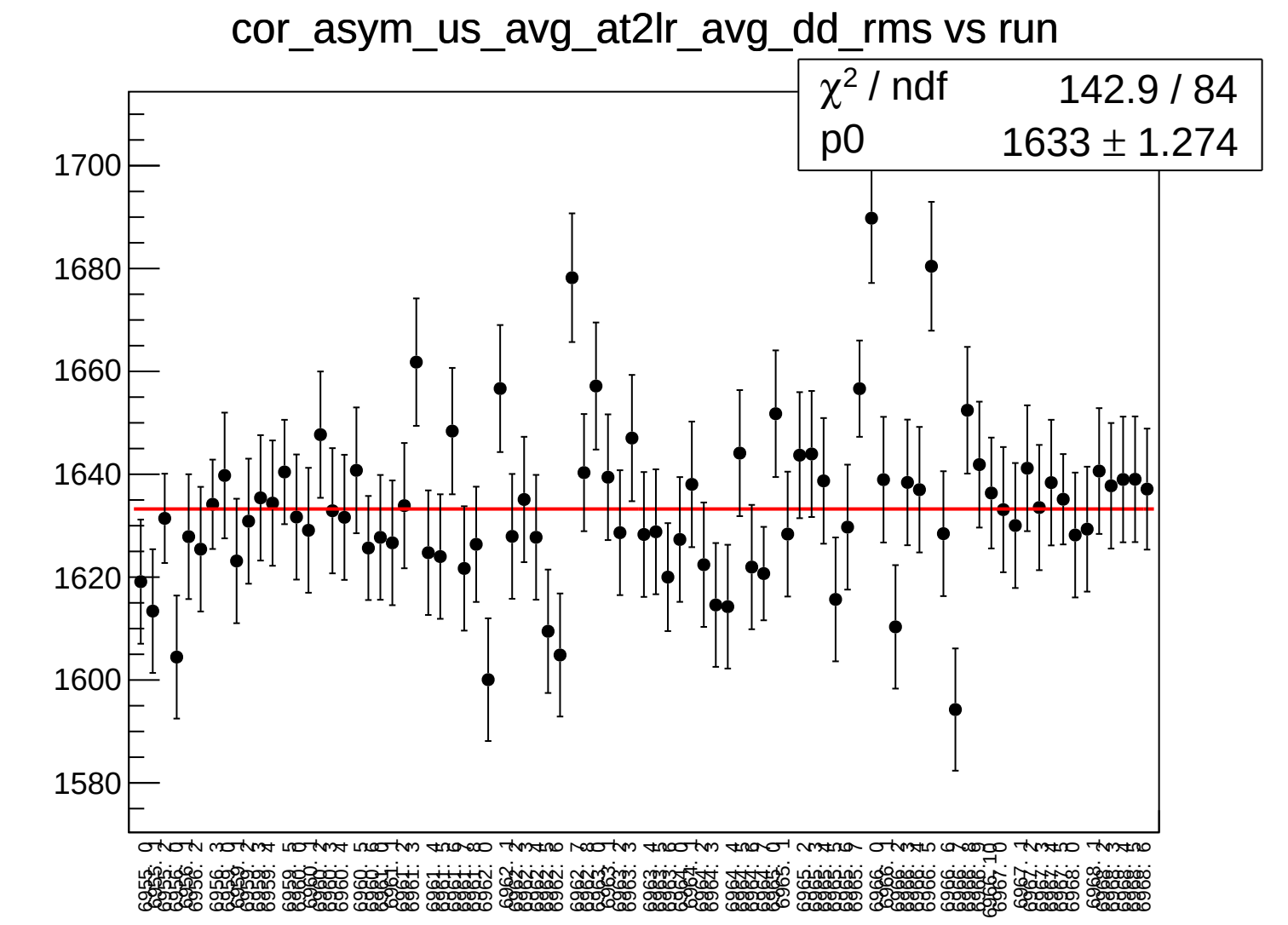

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.8 / 84
p0 4723 ± 1.084e+04
pull
Entries 85
Mean 27.97
Std Dev 64.04

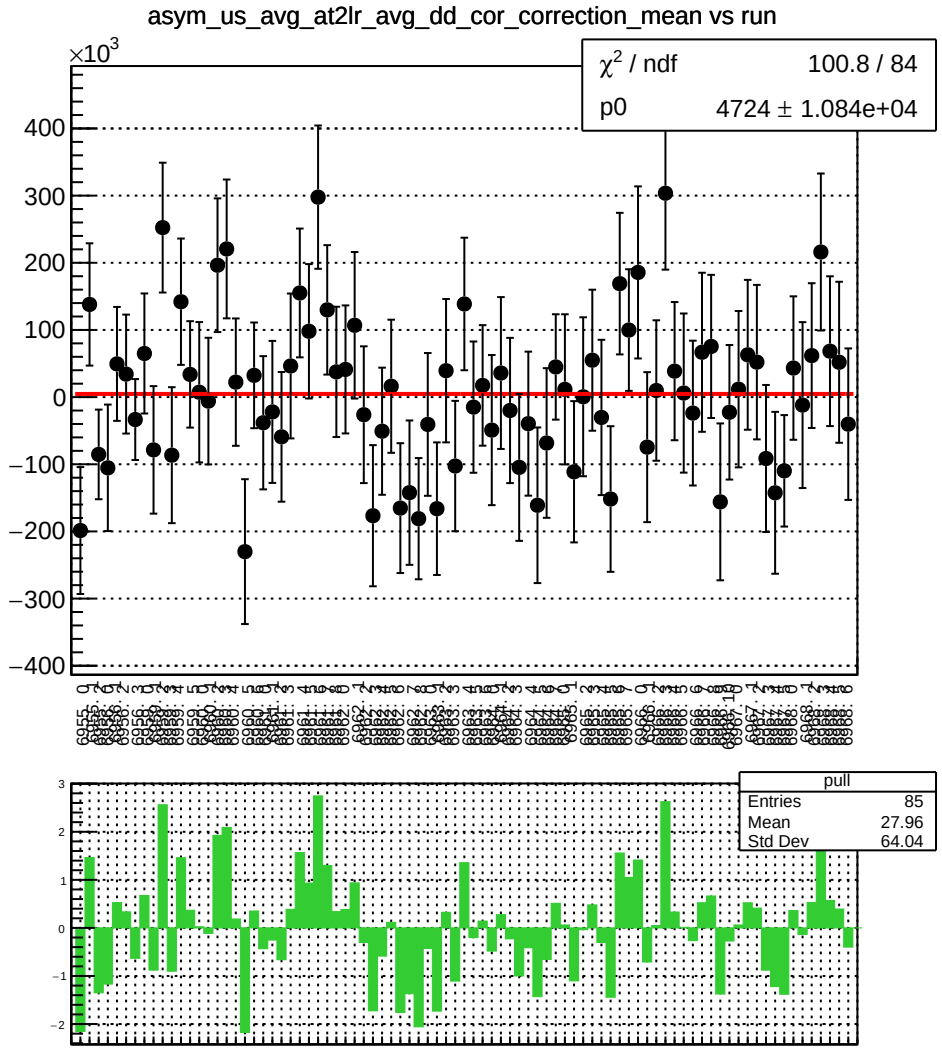

pull1D
Entries 85
Mean 0.0116
Std Dev 1.089

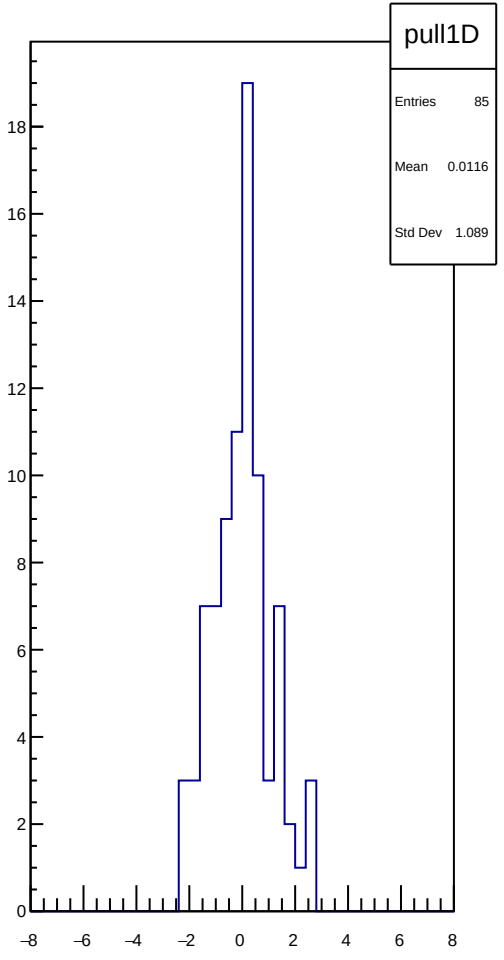

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.367e+04 / 84
p0 9787 ± 7.668
12000
11000
10000
9000
8000

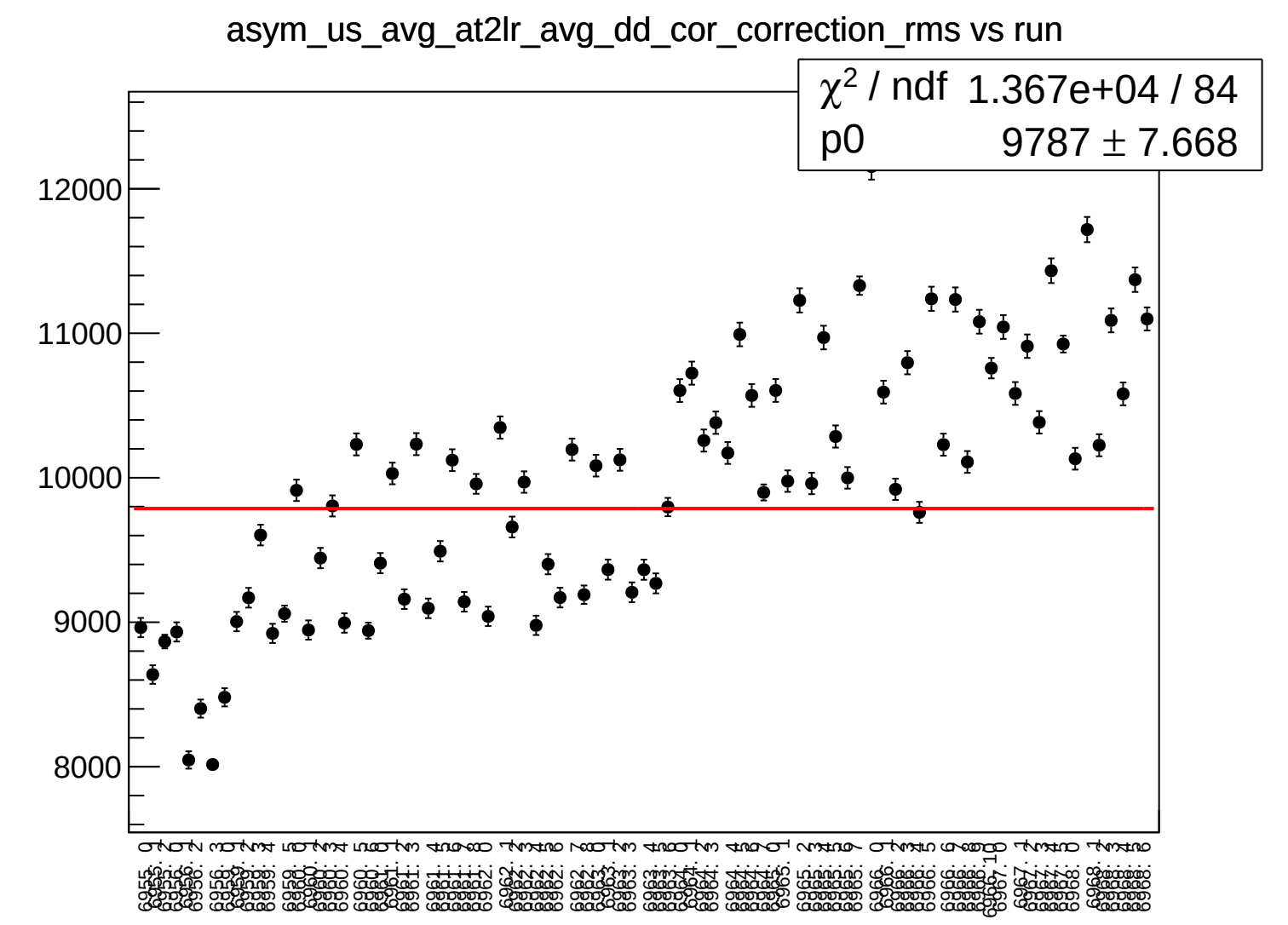

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 75.58 / 84
p0 940.4 ± 1802
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −2718
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

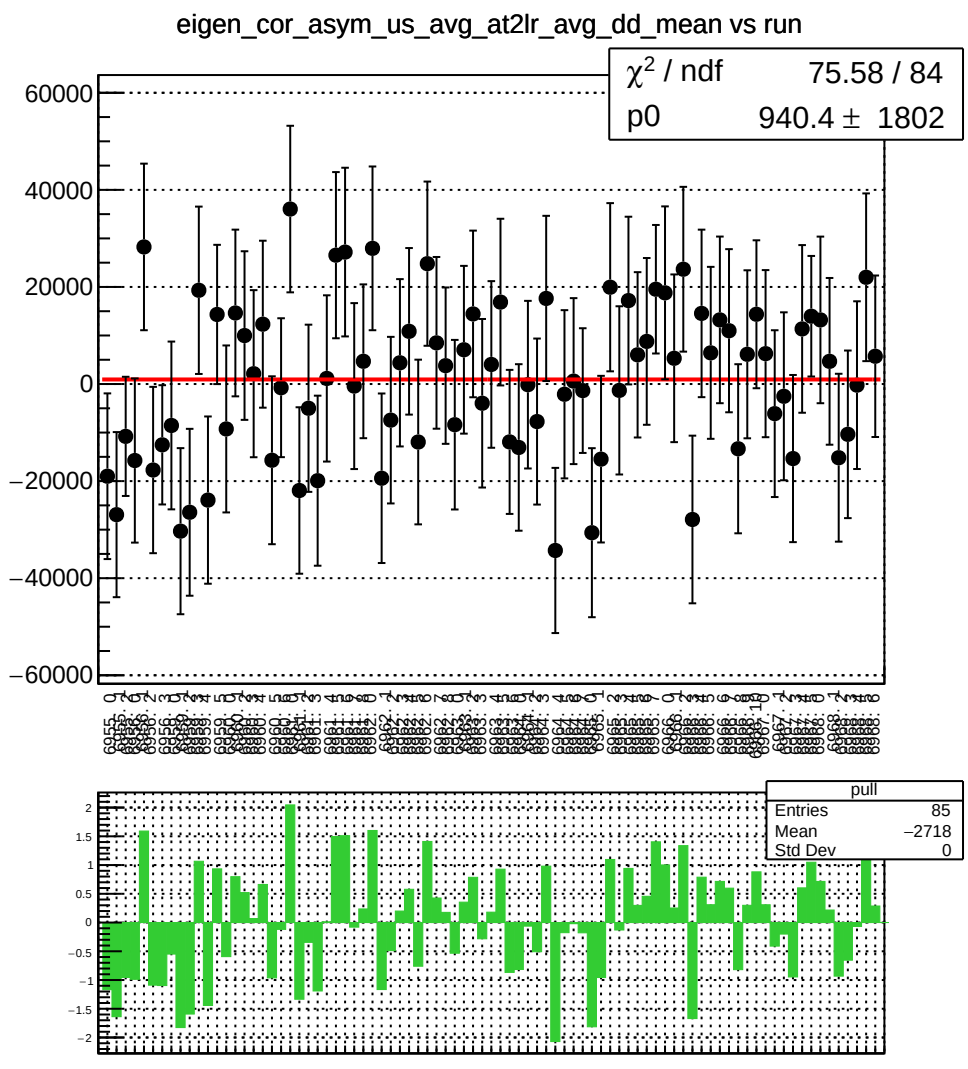

pull1D
Entries 85
Mean −0.001751
Std Dev 0.943
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

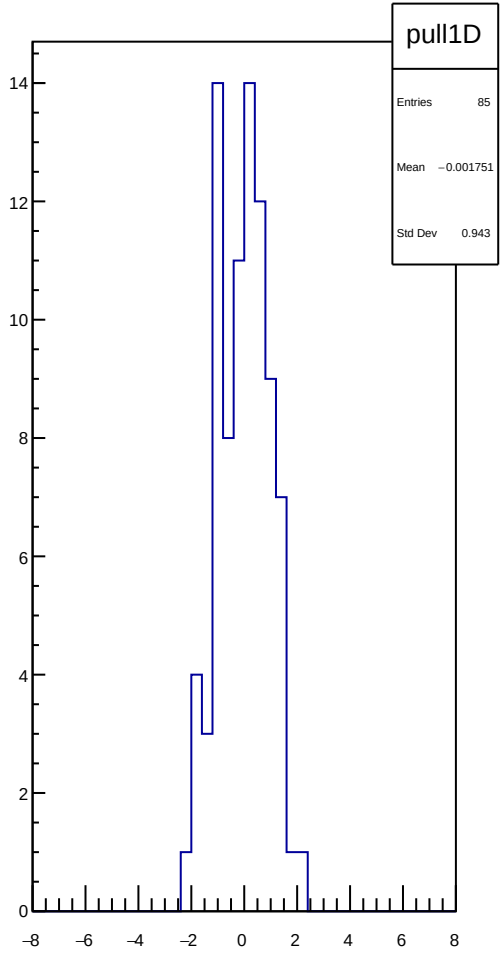

cor_asym_us_avg_at2lr_avg_dd_rms vs run
$\chi^2$ / ndf 142.9 / 84
p0 1633 ± 1.274
1700
1680
1660
1640
1620
1600
1580

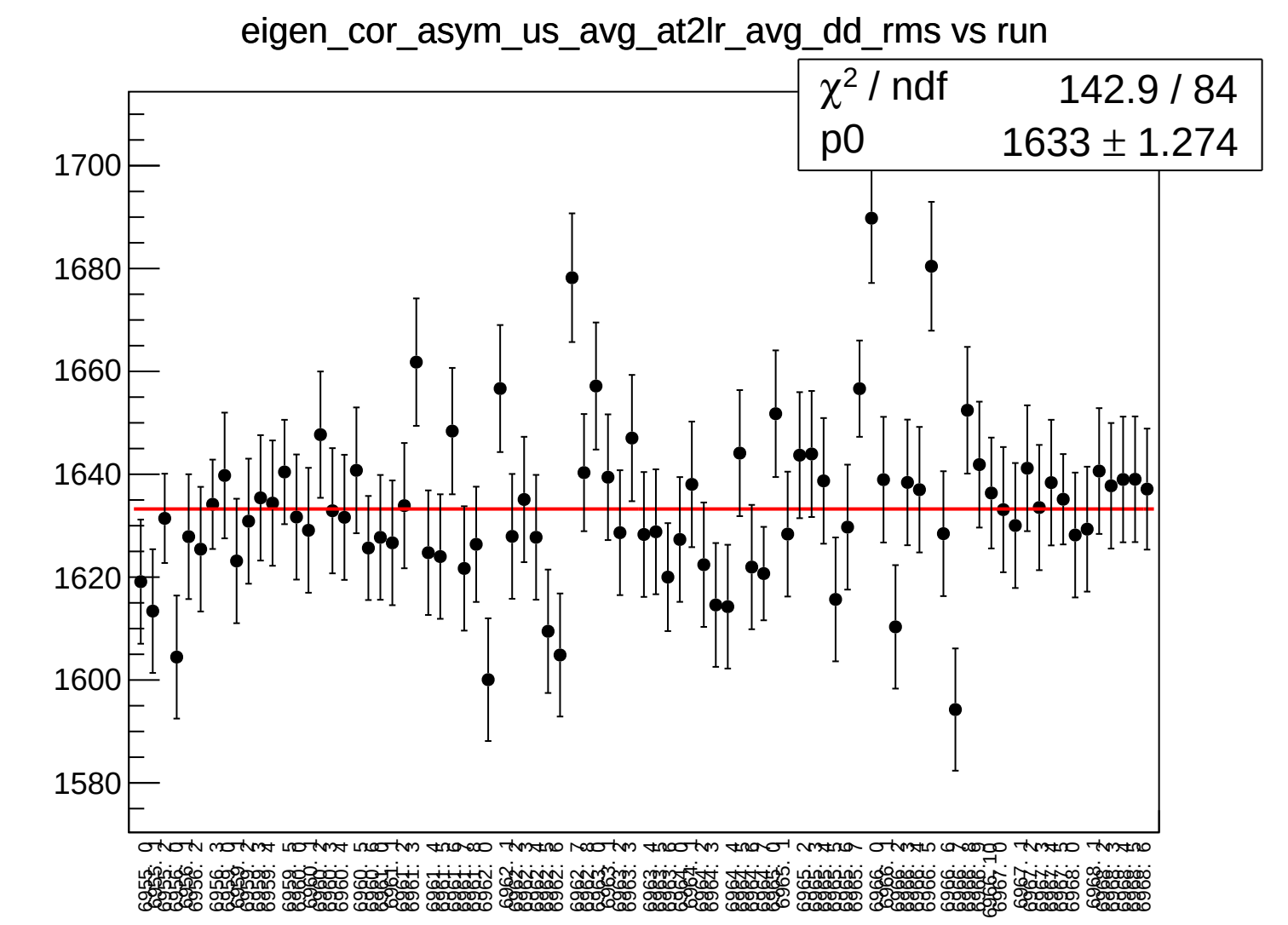

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 100.8 / 84
p0 4724 ± 1.084e+04
pull
Entries 85
Mean 27.96
Std Dev 64.04

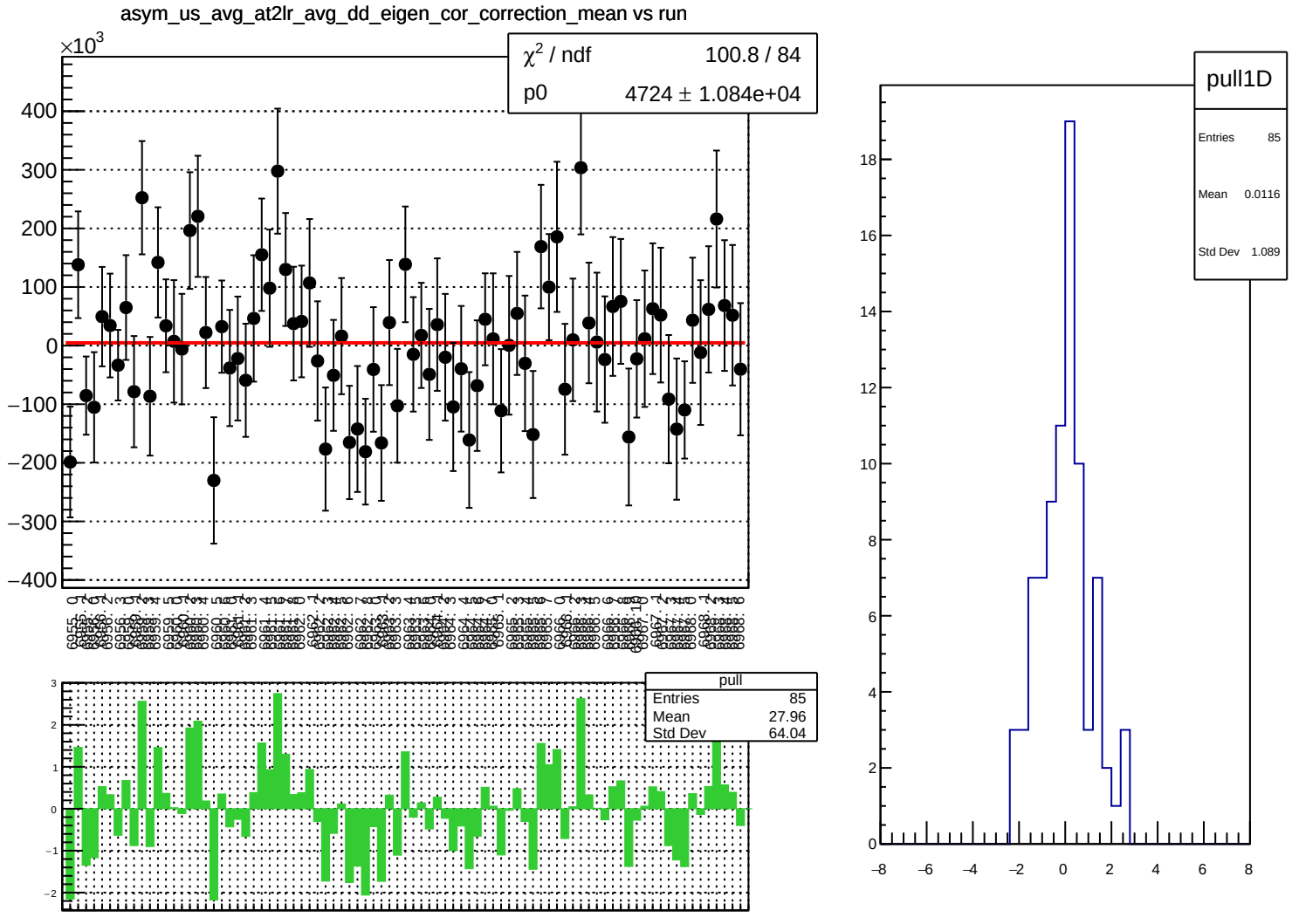

pull1D
Entries 85
Mean 0.0116
Std Dev 1.089

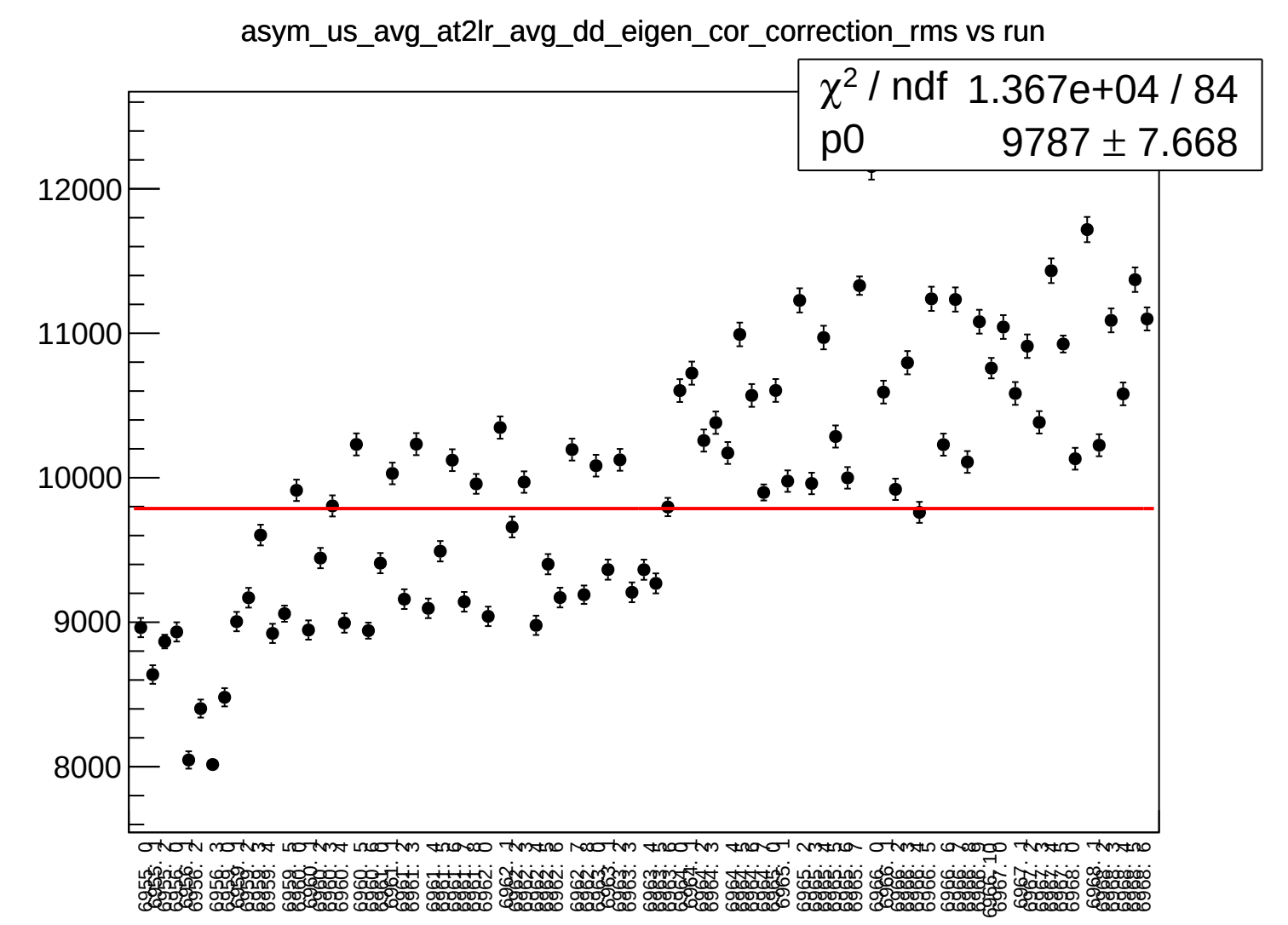

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.367e+04 / 84
p0 9787 ± 7.668
12000
11000
10000
9000
8000

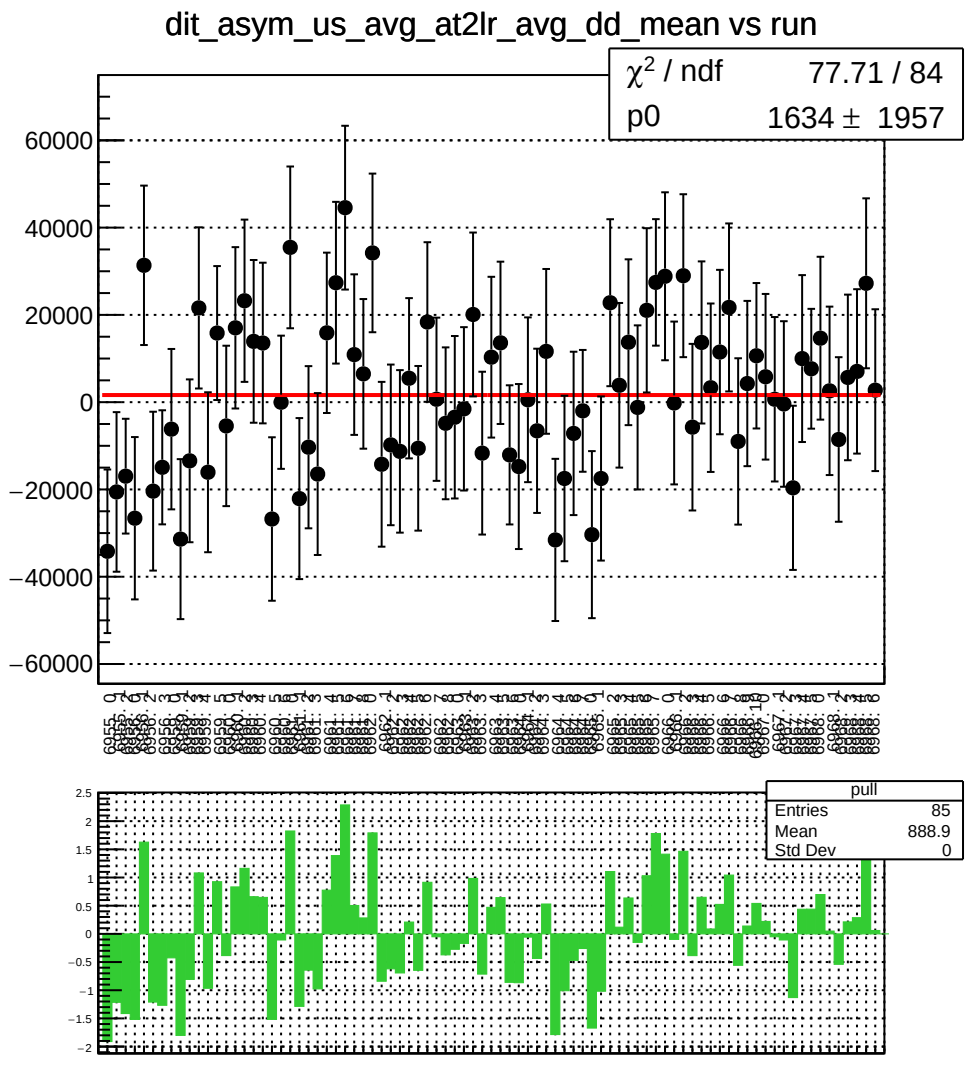

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 75.58 / 84
p0 940.4 ± 1802
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −2718
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

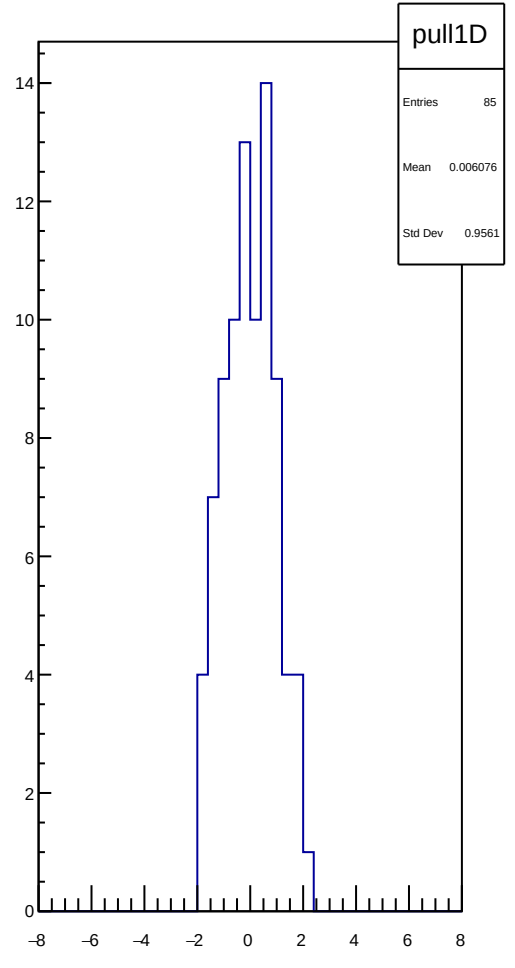

pull1D
Entries 85
Mean −0.001751
Std Dev 0.943
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

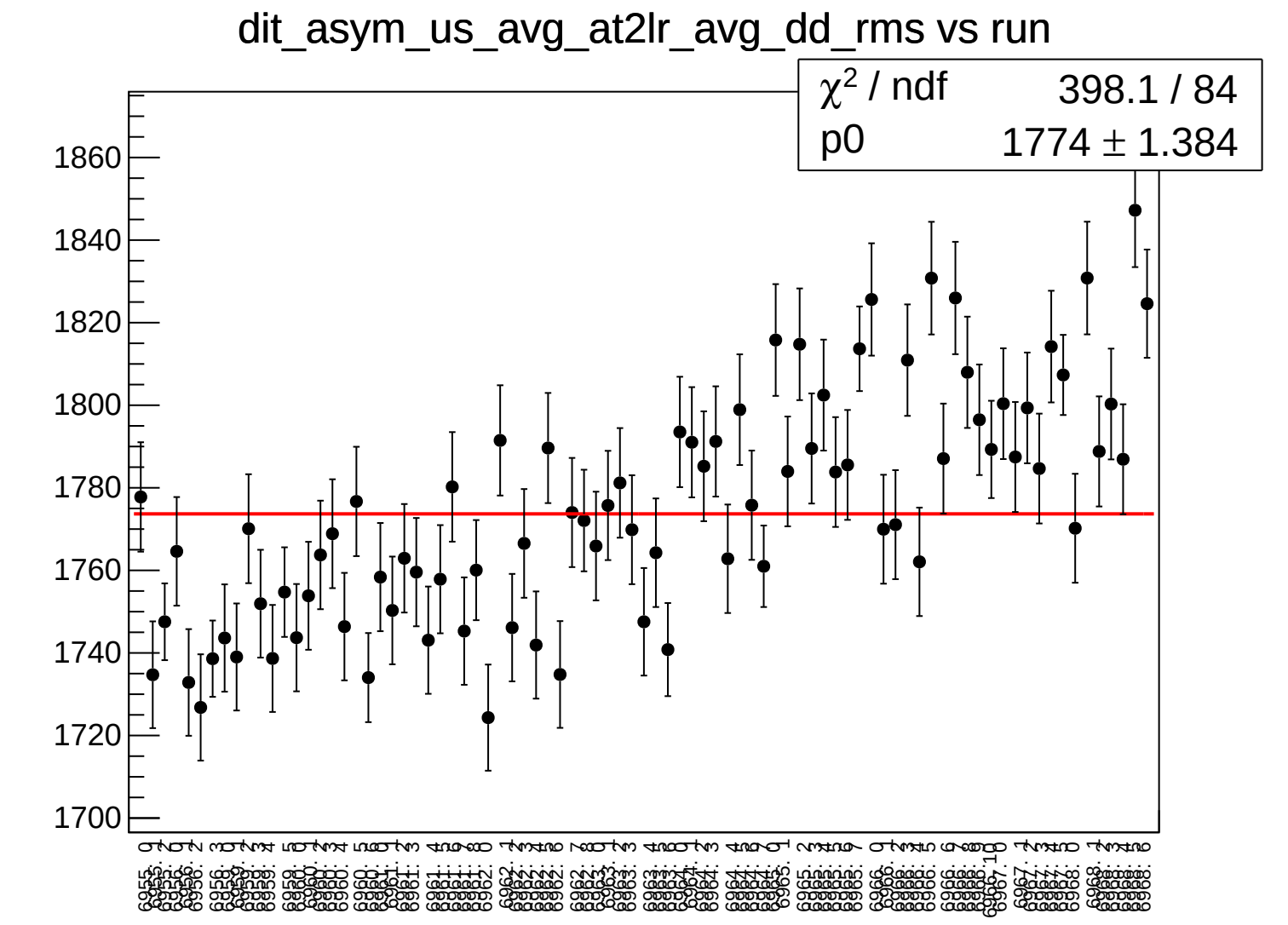

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 142.9 / 84
p0 1633 ± 1.274
1700
1680
1660
1640
1620
1600
1580

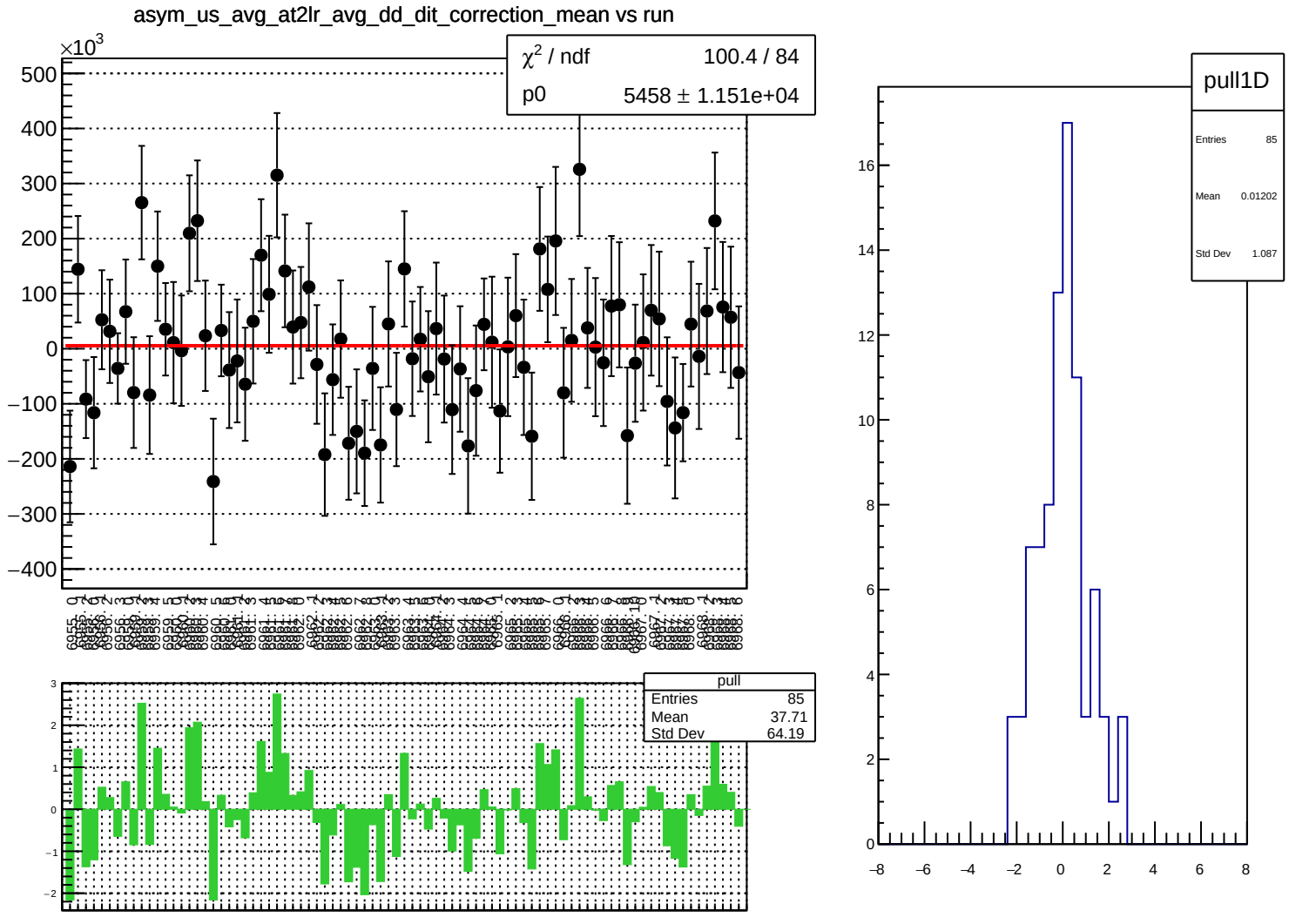

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.8 / 84
p0 4724 ± 1.084e+04
pull
Entries 85
Mean 27.96
Std Dev 64.04
pull1D
Entries 85
Mean 0.0116
Std Dev 1.089

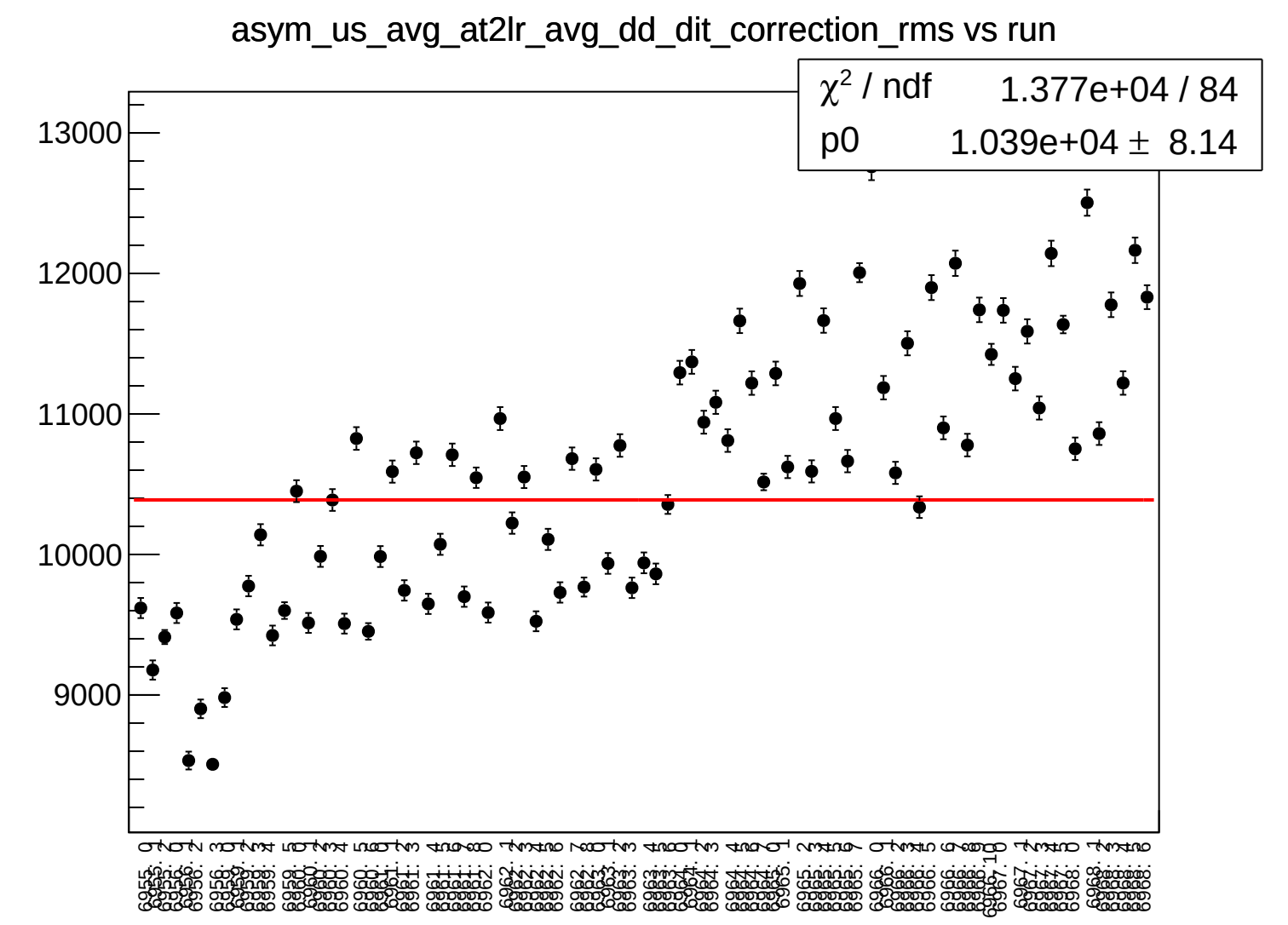

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.367e+04 / 84
p0 9787 ± 7.668
12000
11000
10000
9000
8000

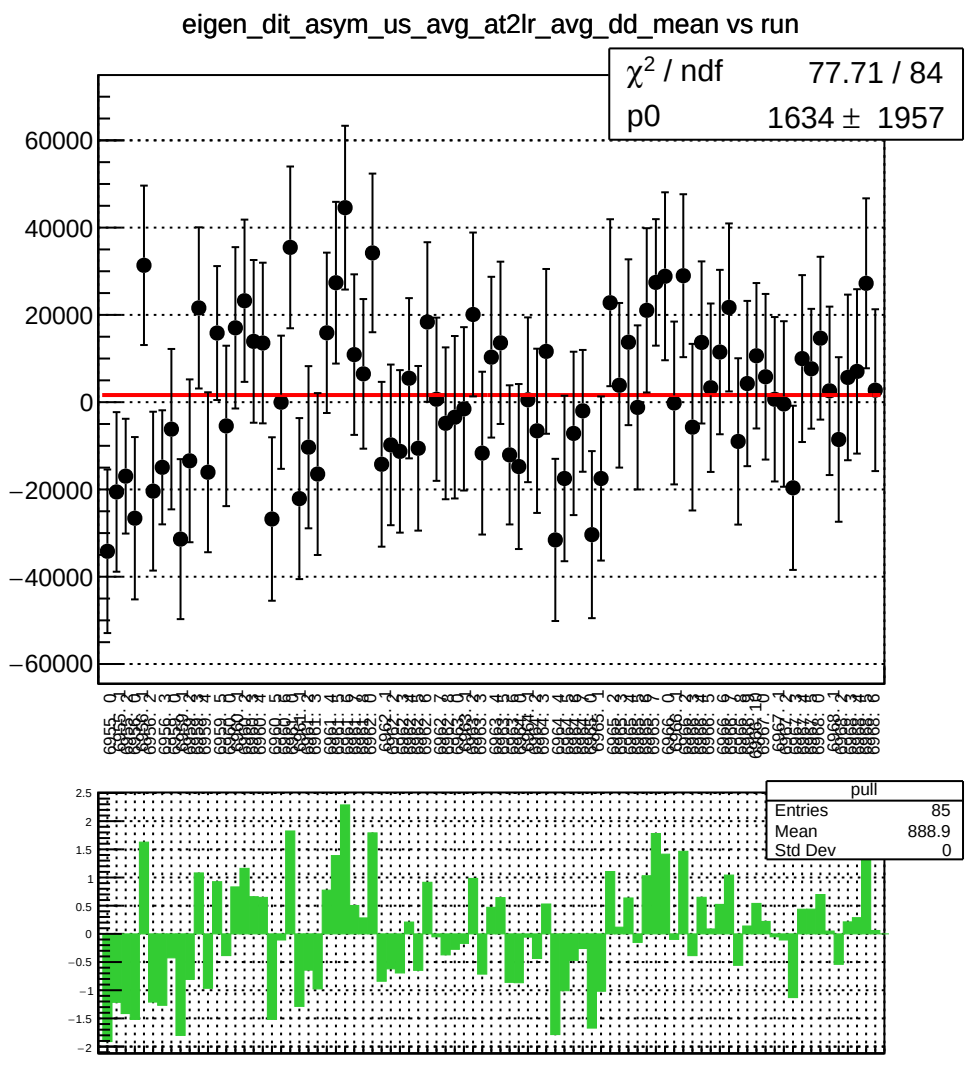

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 77.71 / 84
p0 1634 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 888.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

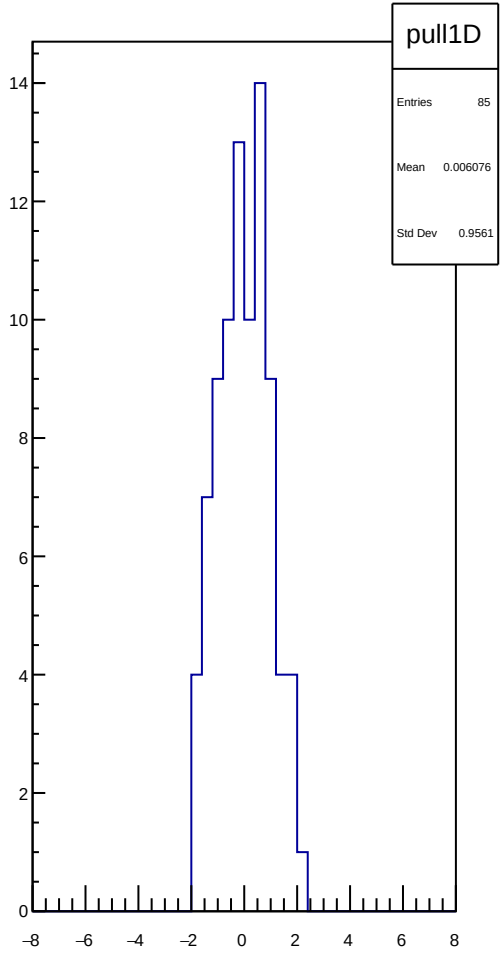

pull1D
Entries 85
Mean 0.006076
Std Dev 0.9561
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

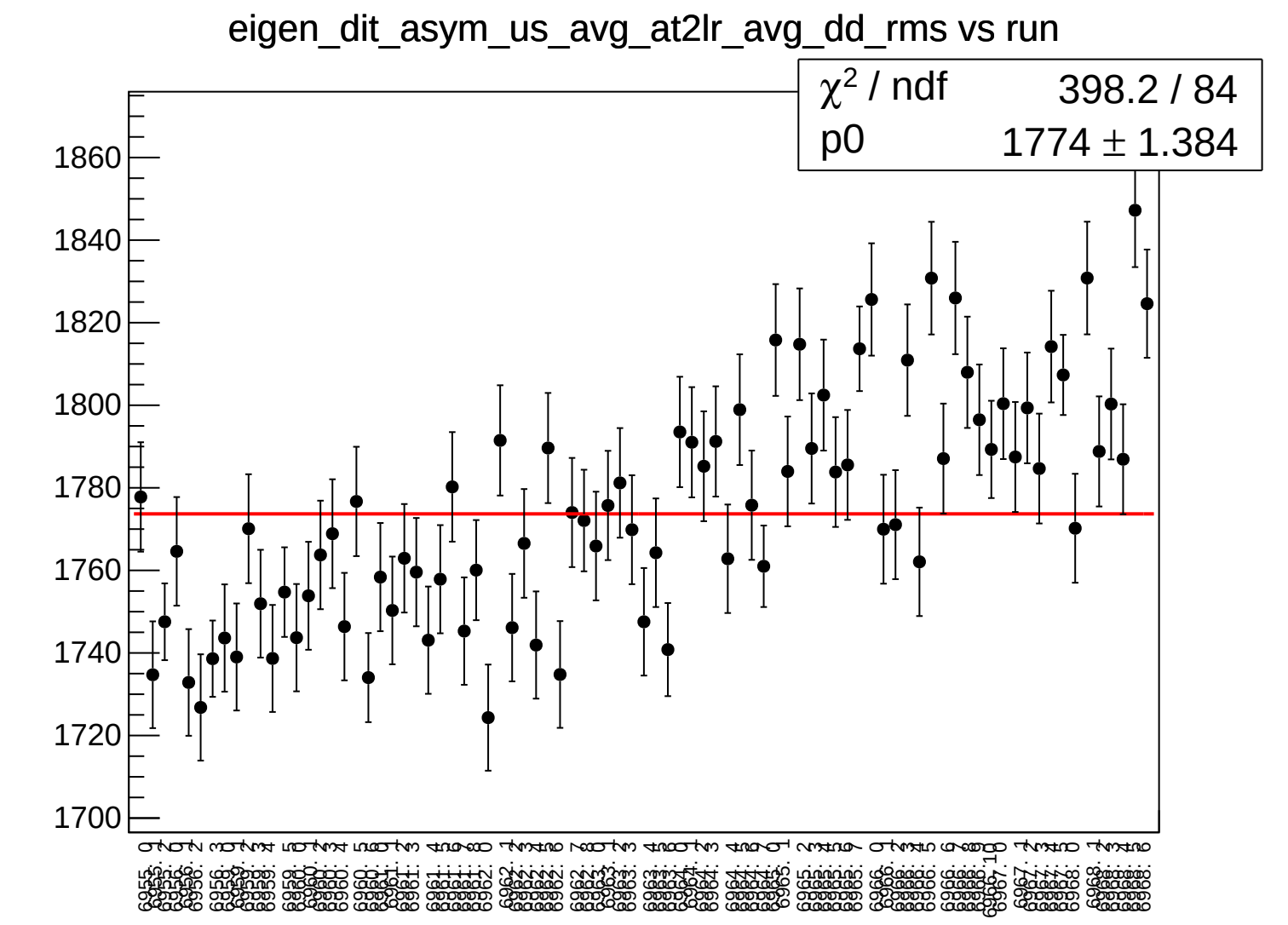

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 398.1 / 84
p0 1774 ± 1.384
1860
1840
1820
1800
1780
1760
1740
1720
1700

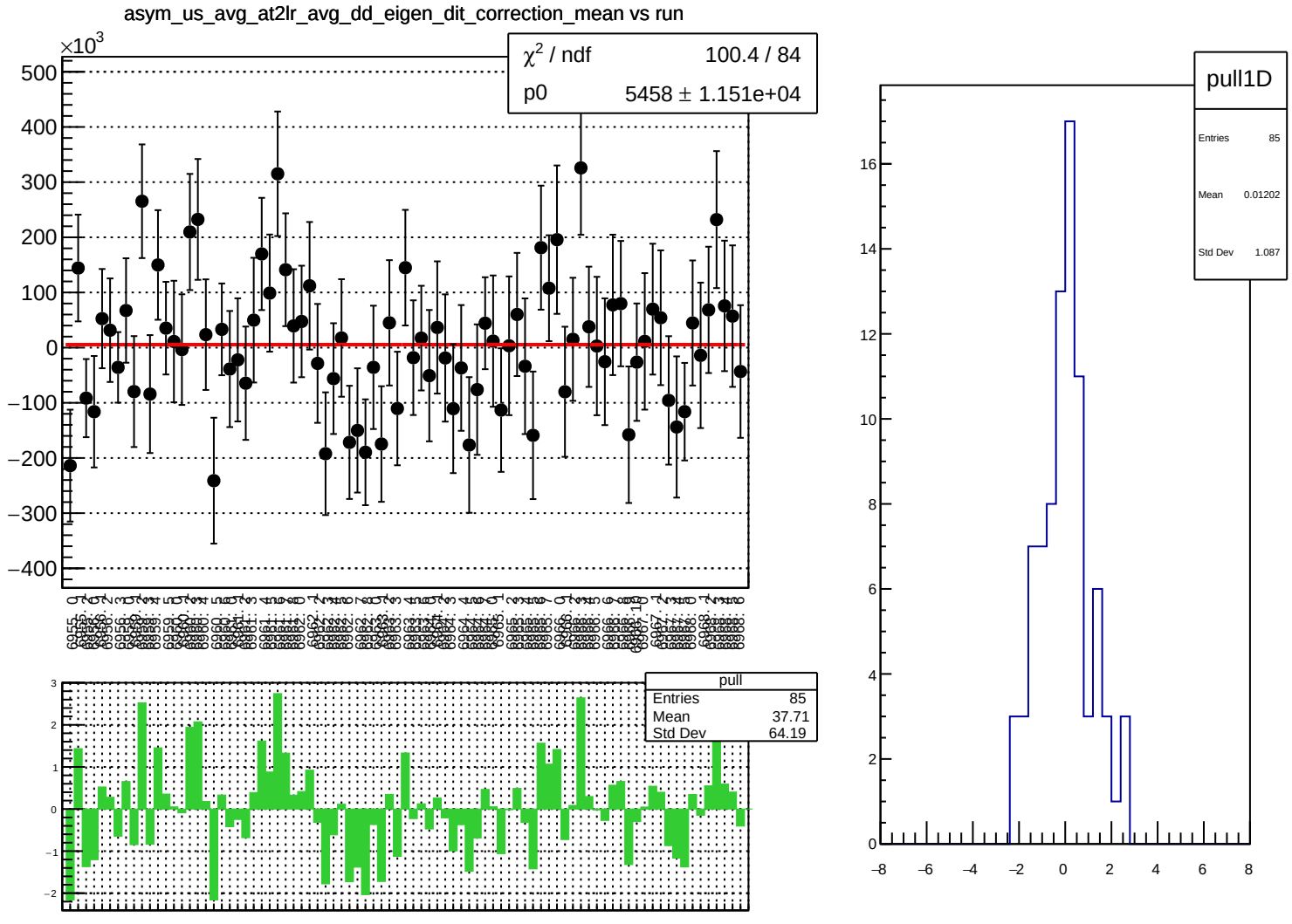

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 100.4 / 84
p0 5458 ± 1.151e+04
pull
Entries 85
Mean 37.71
Std Dev 64.19
pull1D
Entries 85
Mean 0.01202
Std Dev 1.087

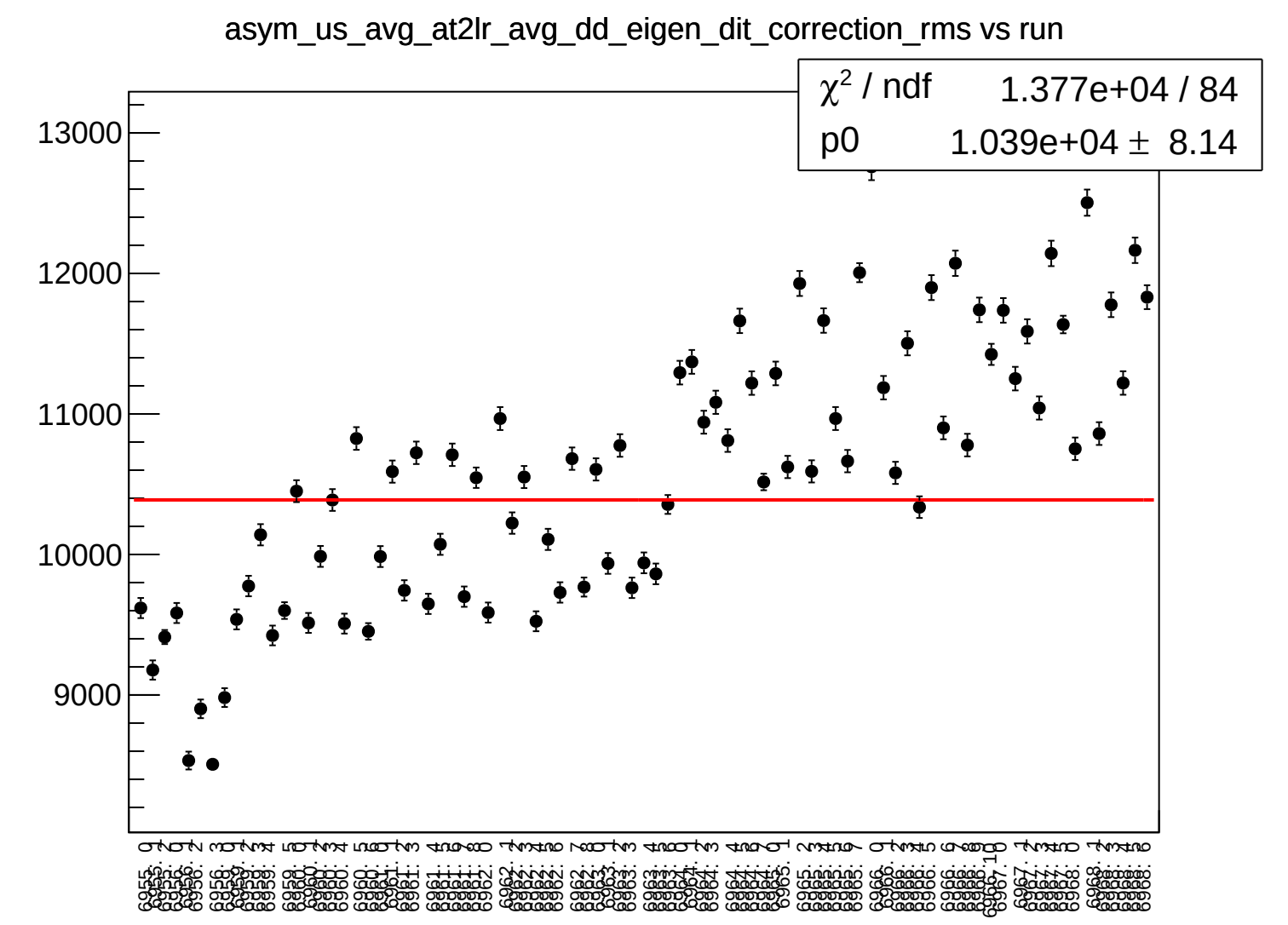

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.377e+04 / 84
p0 1.039e+04 ± 8.14
13000
12000
11000
10000
9000

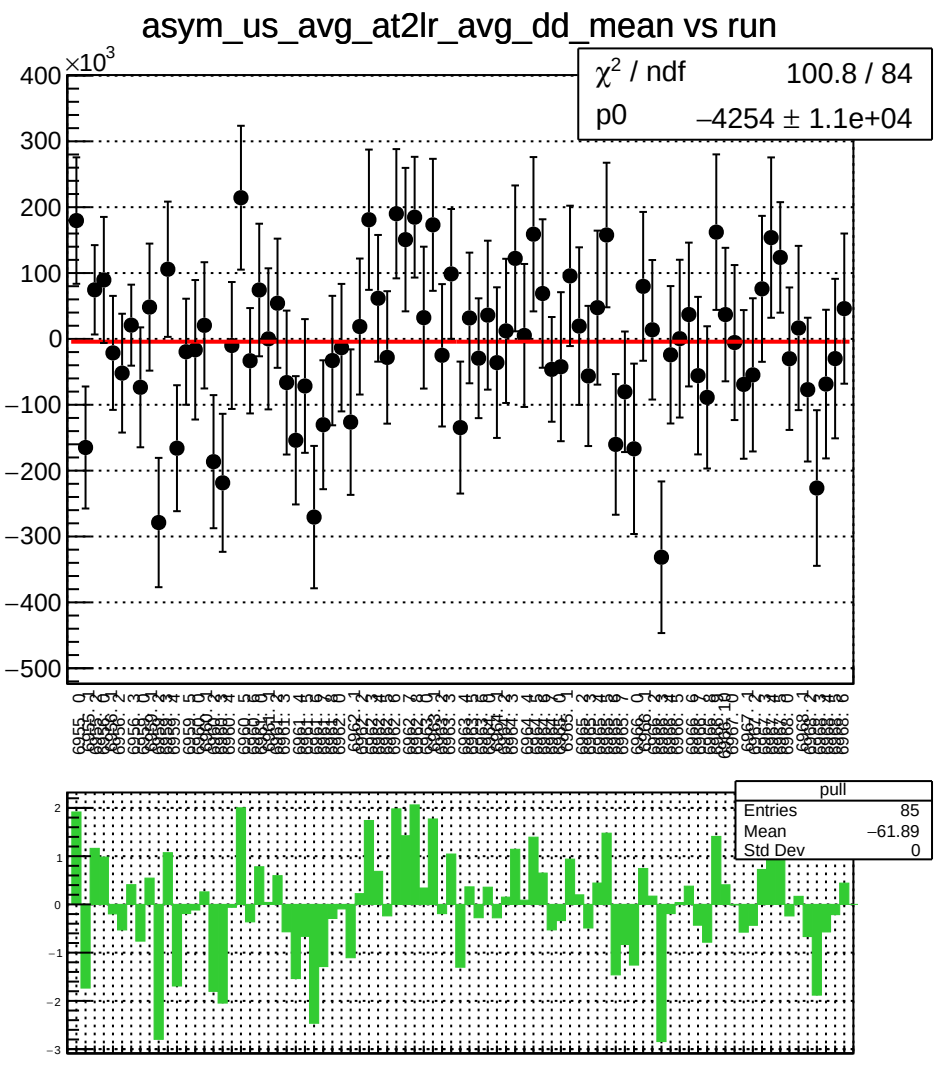

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 77.71 / 84
p0 1634 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 888.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

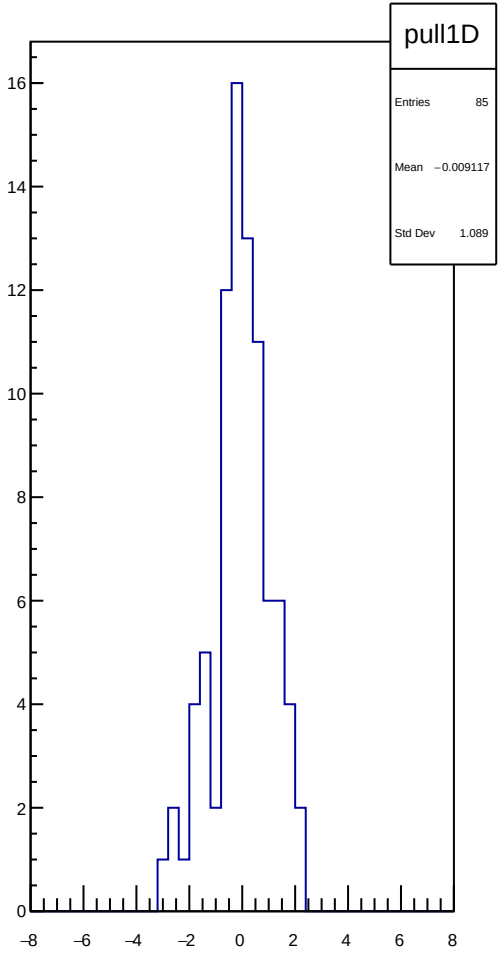

pull1D
Entries 85
Mean 0.006076
Std Dev 0.9561
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

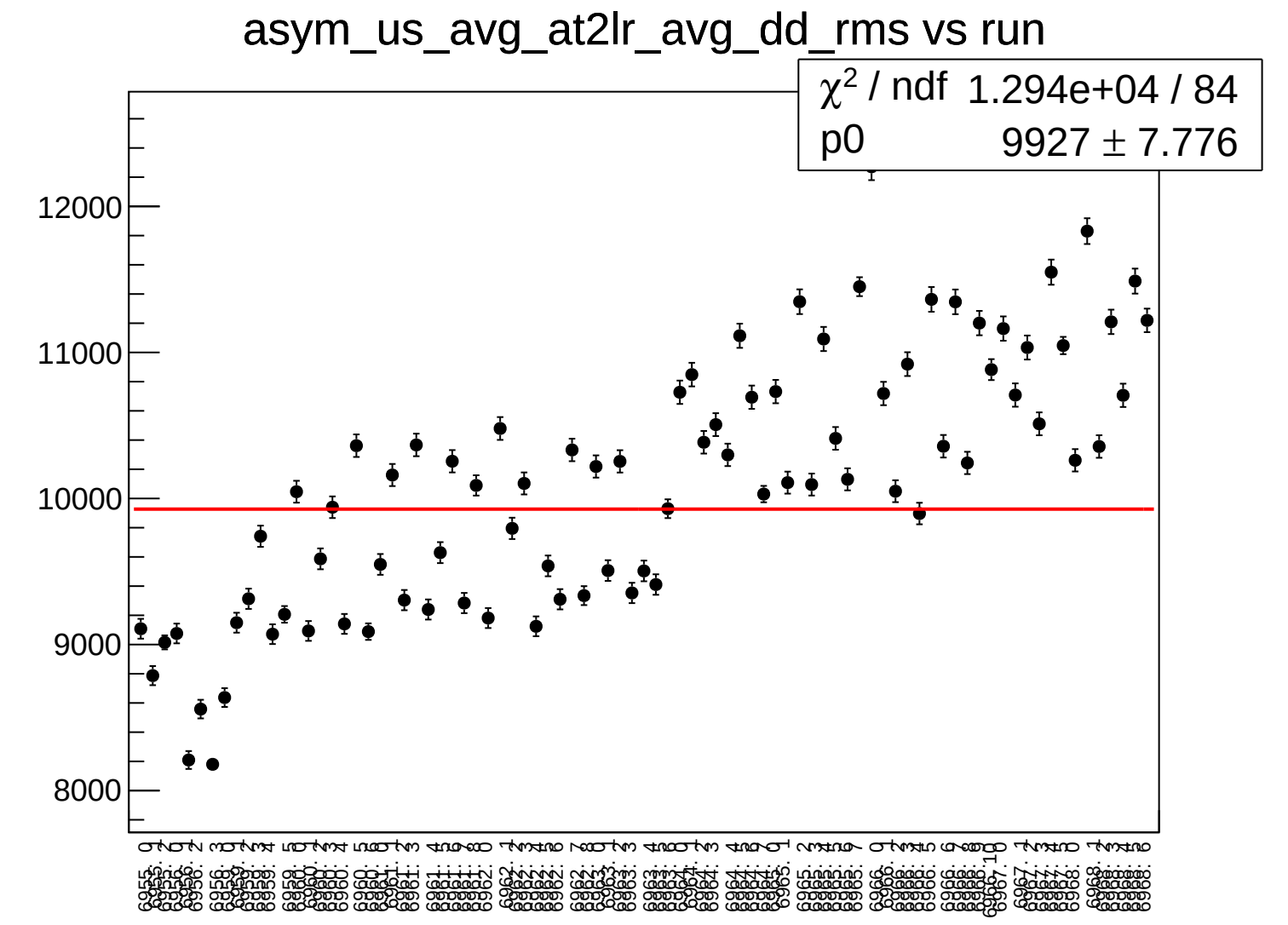

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 398.2 / 84
p0 1774 ± 1.384
1860
1840
1820
1800
1780
1760
1740
1720
1700

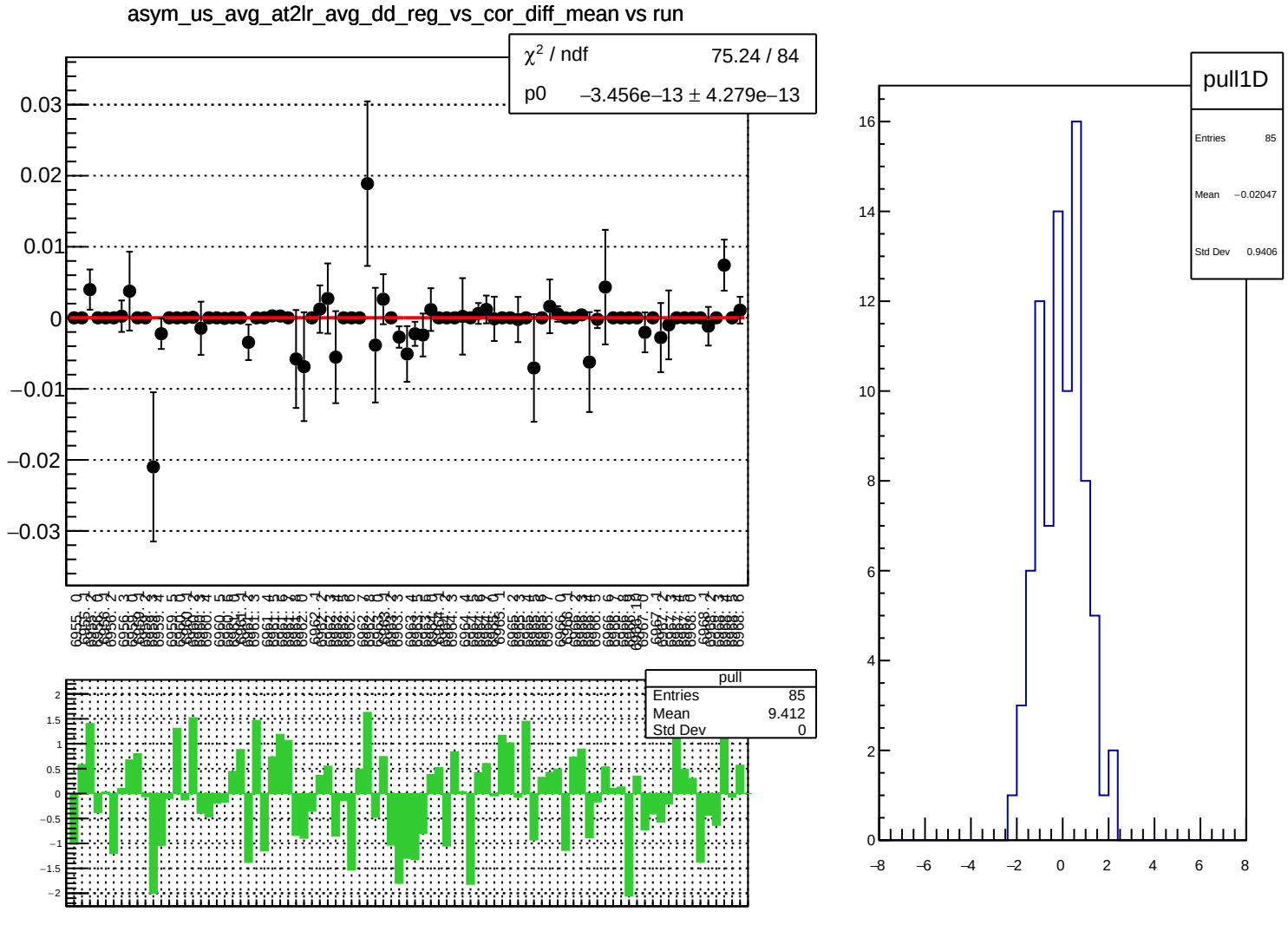

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.4 / 84
p0 5458 ± 1.151e+04
pull
Entries 85
Mean 37.71
Std Dev 64.19
pull1D
Entries 85
Mean 0.01202
Std Dev 1.087

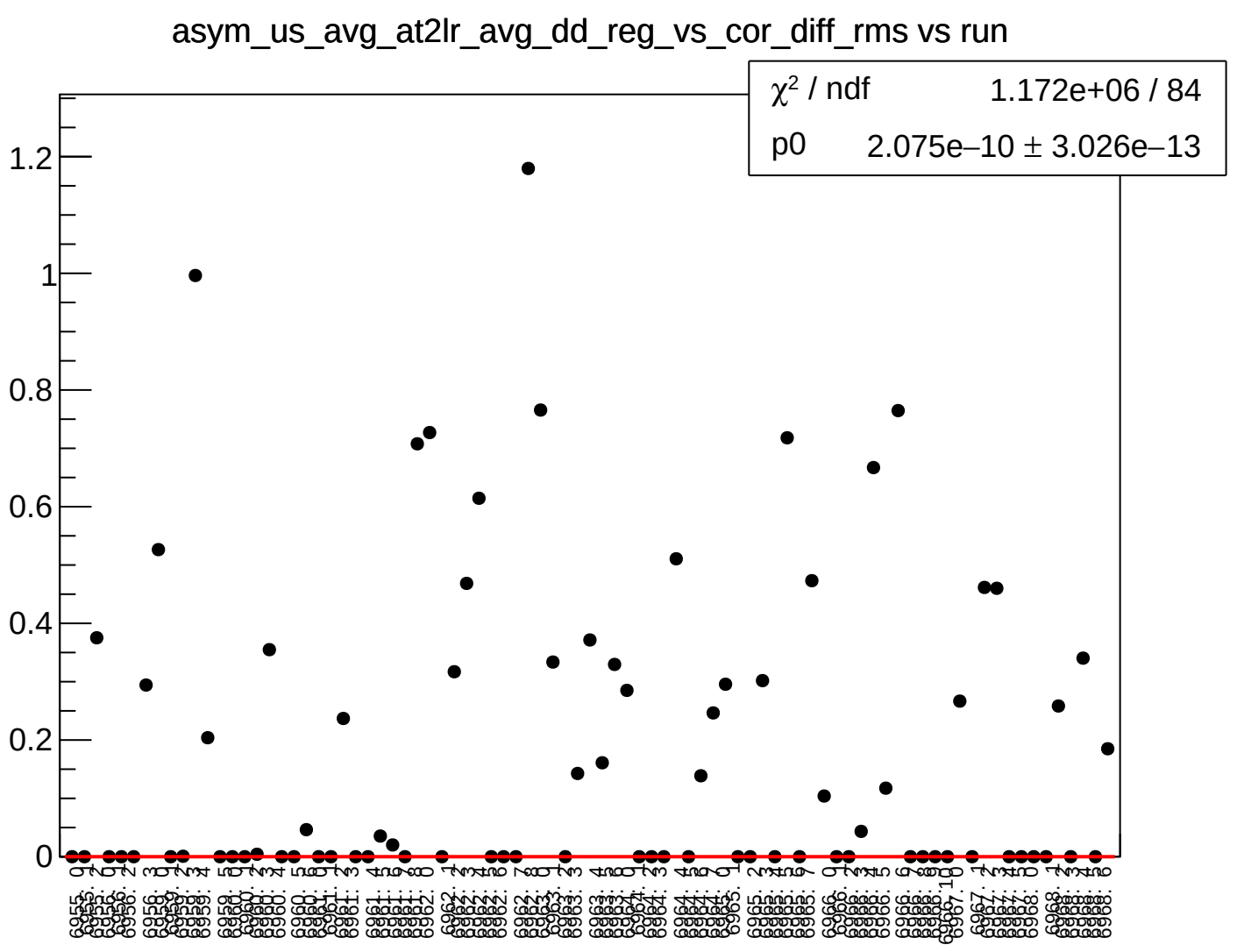

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.377e+04 / 84
p0 1.039e+04 ± 8.14
13000
12000
11000
10000
9000

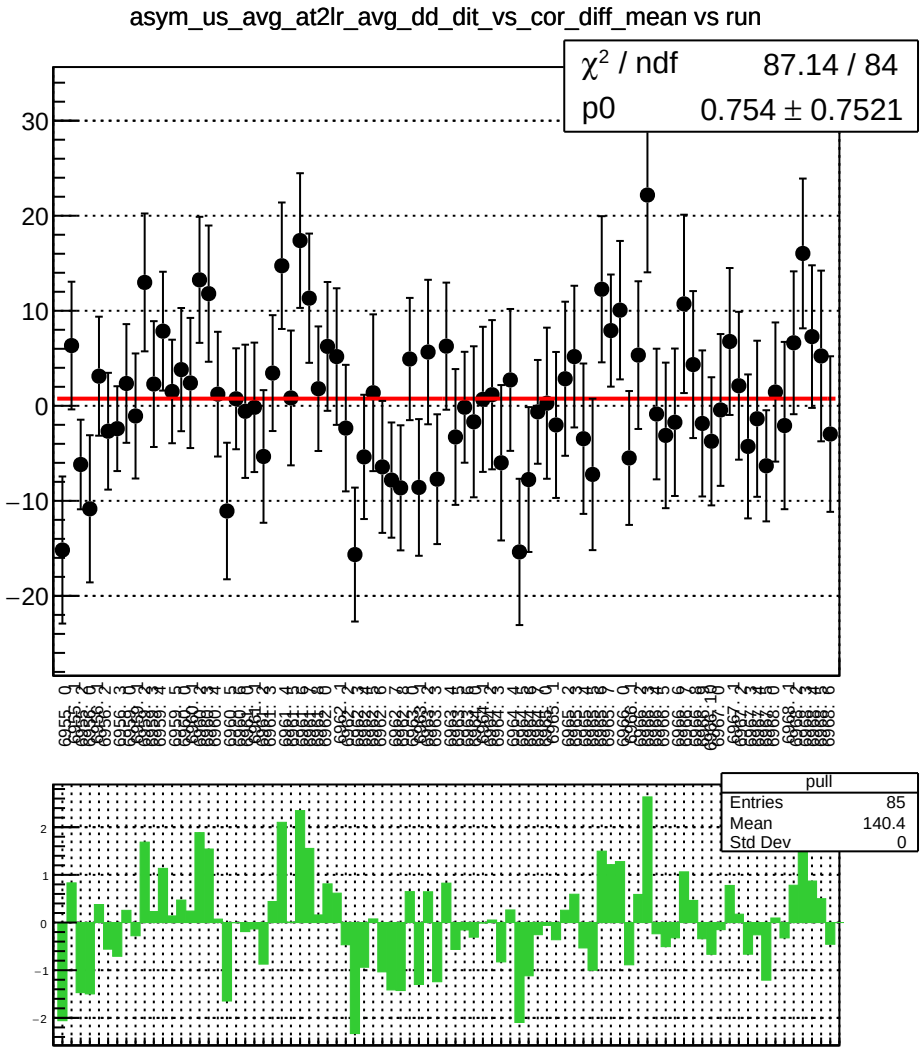

asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 100.8 / 84
p0 −4254 ± 1.1e+04
×10³
pull
Entries 85
Mean −61.89
Std Dev 0

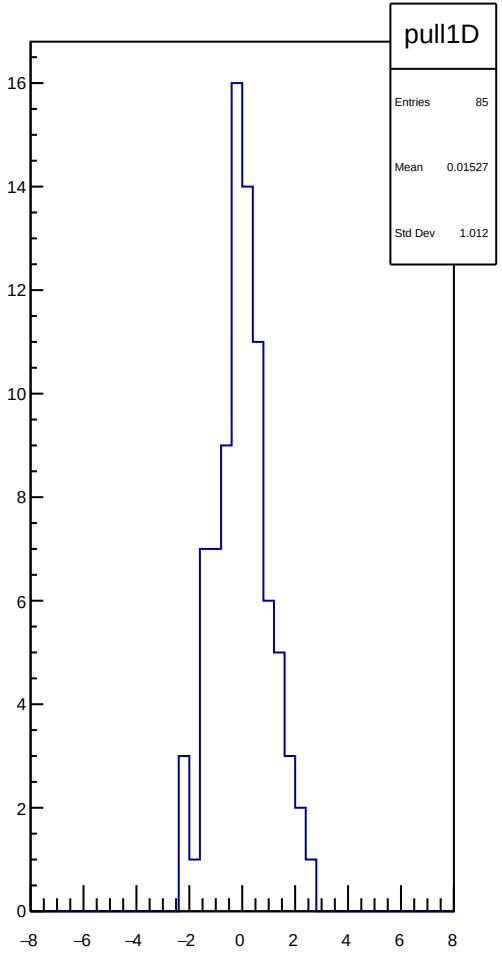

pull1D
Entries 85
Mean −0.009117
Std Dev 1.089

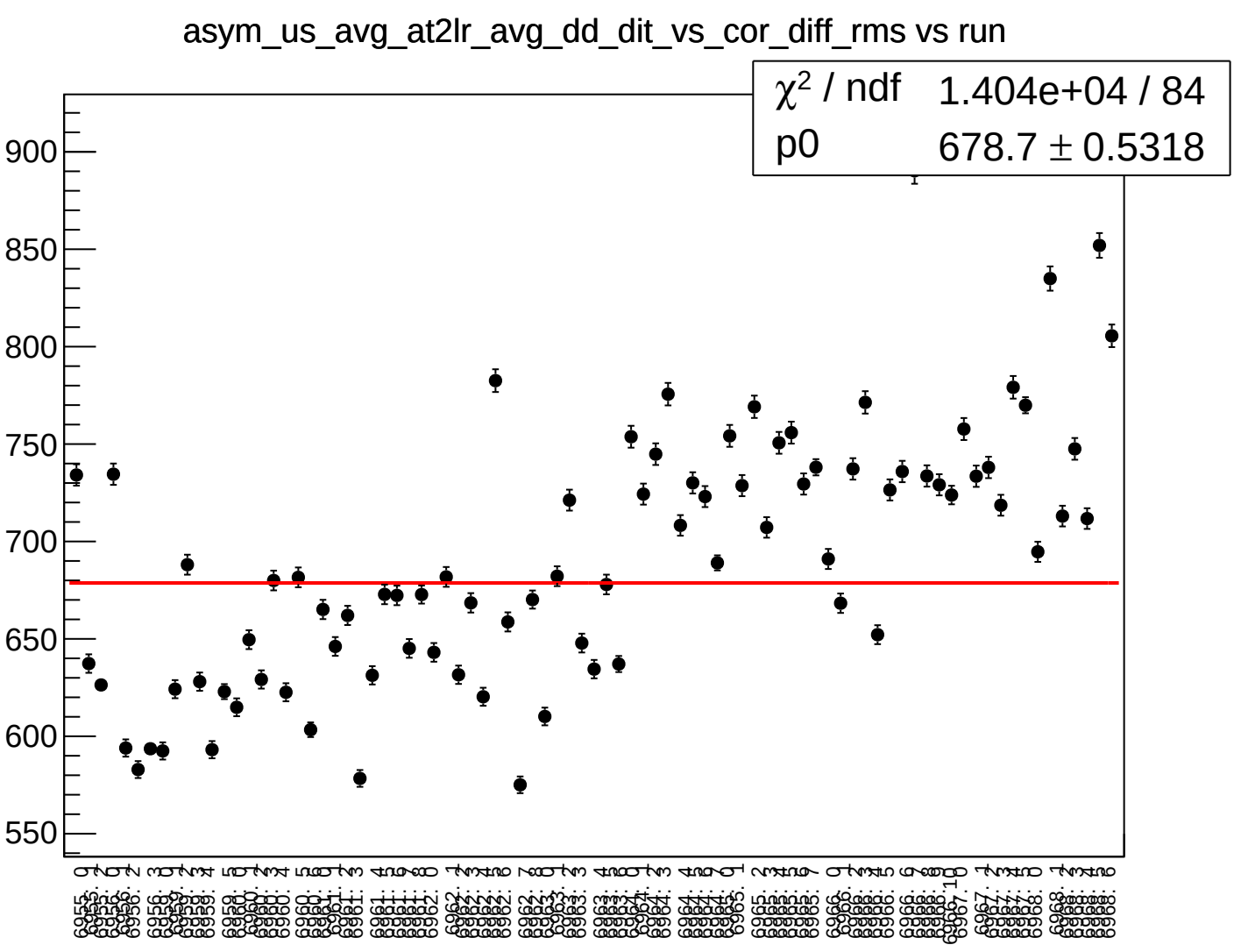

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.294e+04 / 84
p0 9927 ± 7.776
12000
11000
10000
9000
8000

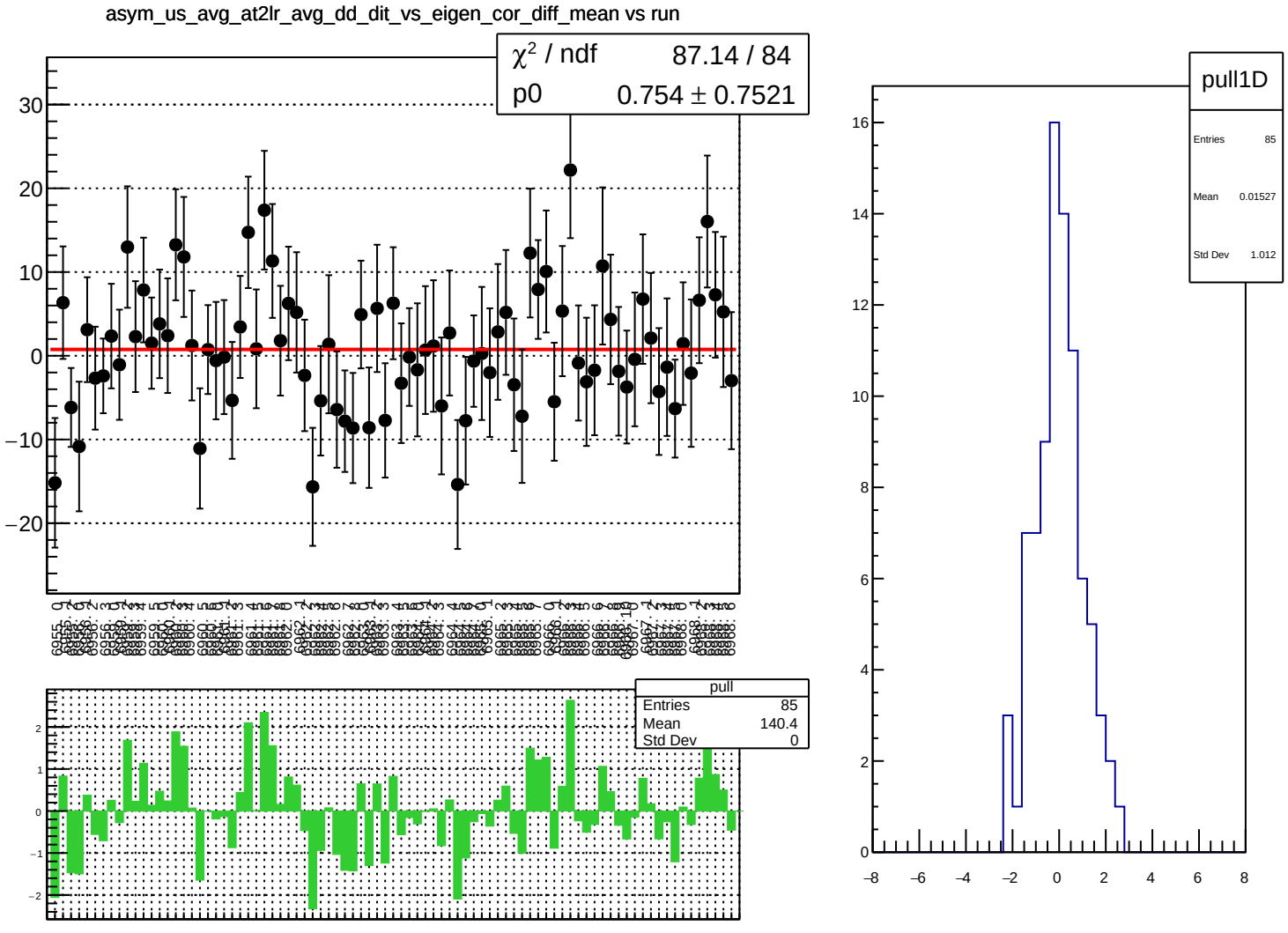

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.24 / 84
p0 −3.456e−13 ± 4.279e−13
pull
Entries 85
Mean 9.412
Std Dev 0
pull1D
Entries 85
Mean −0.02047
Std Dev 0.9406

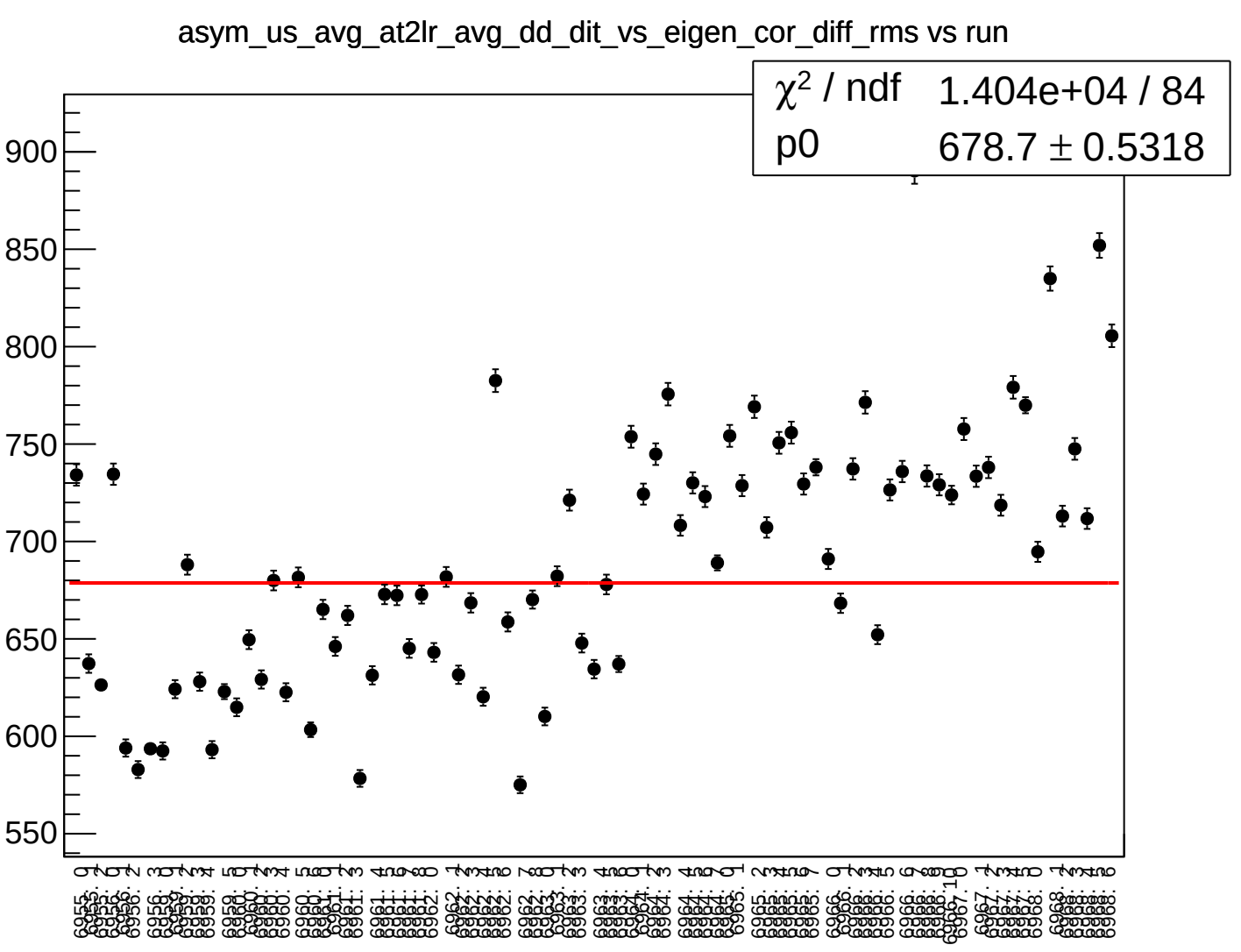

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.172e+06 / 84
p0 2.075e−10 ± 3.026e−13
1.2
1
0.8
0.6
0.4
0.2
0

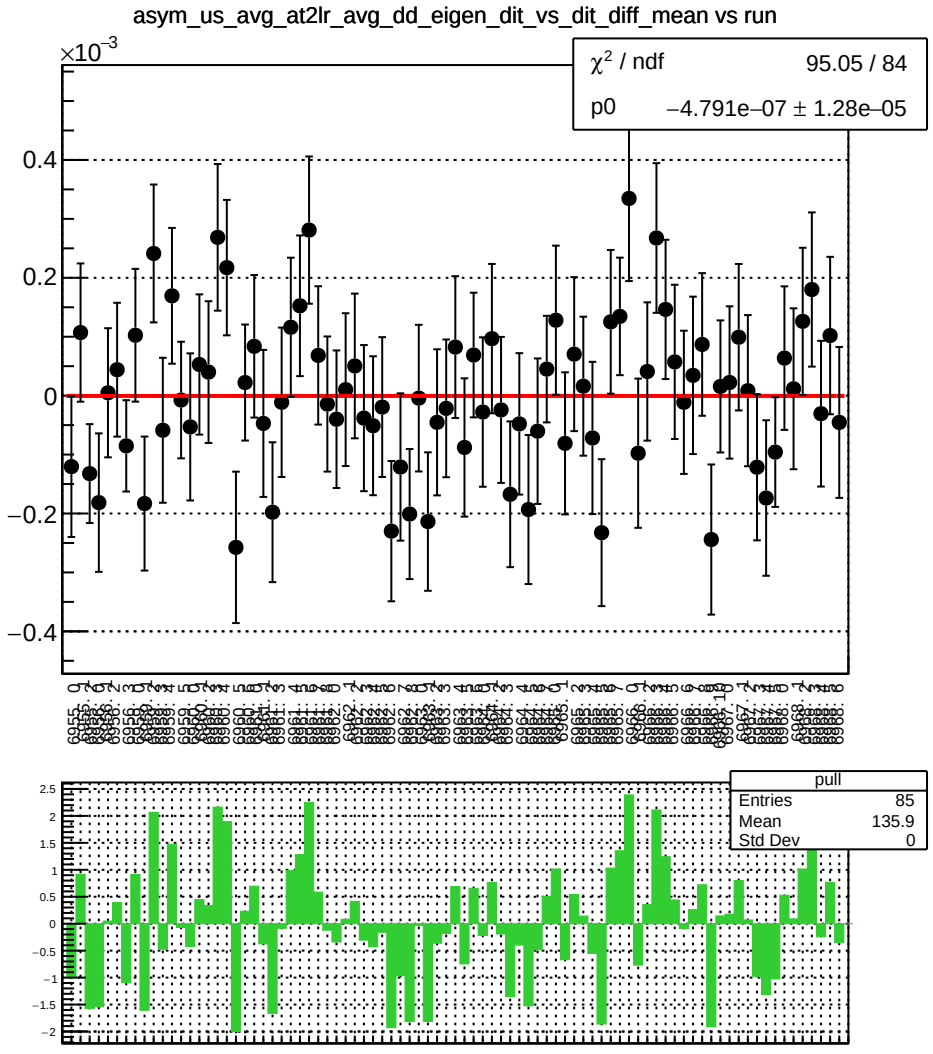

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.14 / 84
p0 0.754 ± 0.7521
pull
Entries 85
Mean 140.4
Std Dev 0

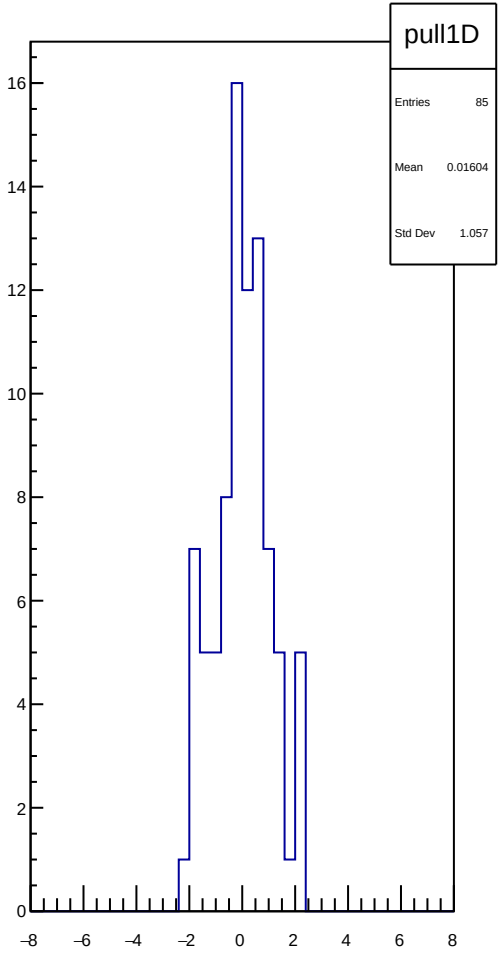

pull1D
Entries 85
Mean 0.01527
Std Dev 1.012

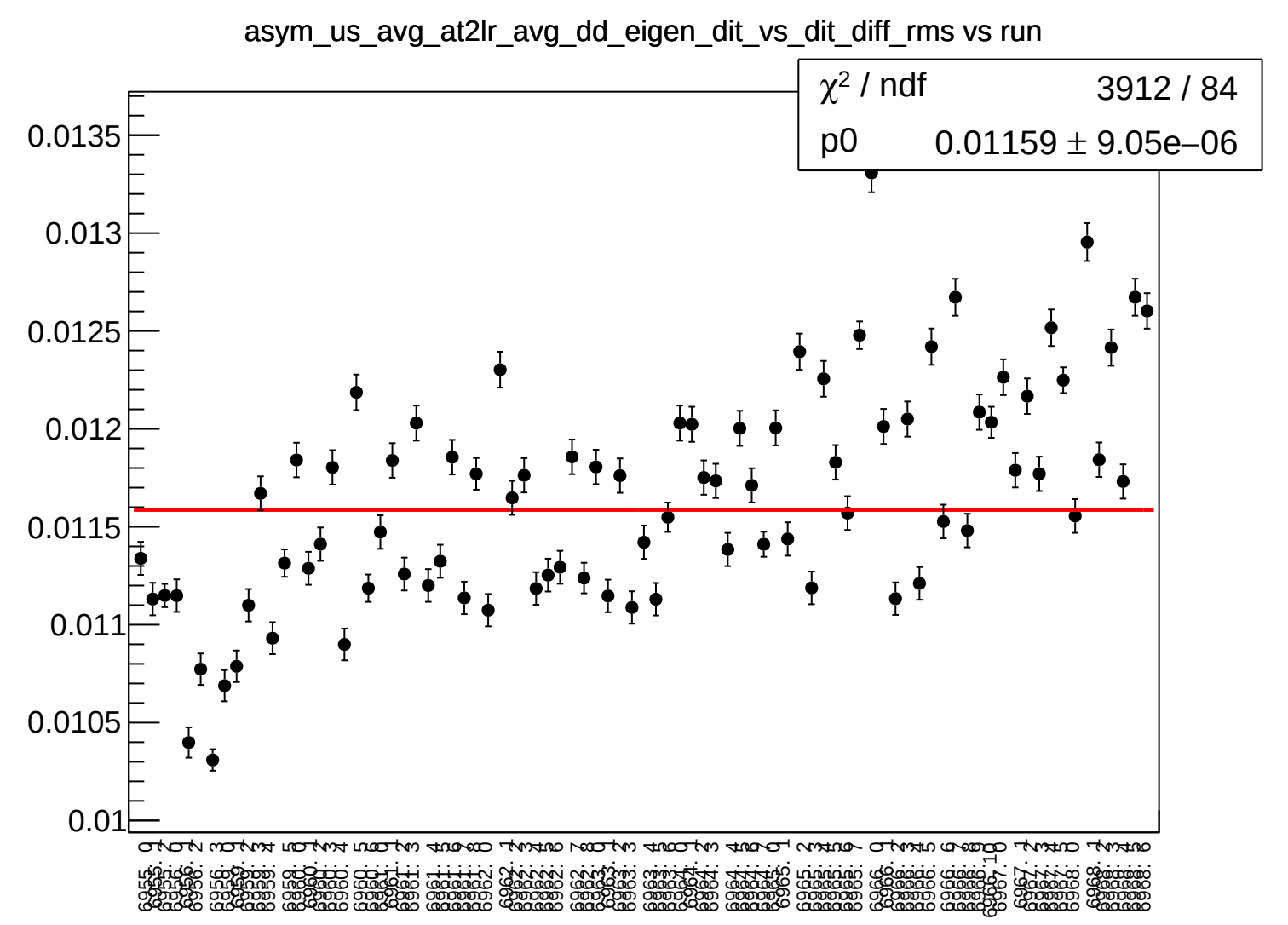

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.404e+04 / 84
p0 678.7 ± 0.5318
900
850
800
750
700
650
600
550

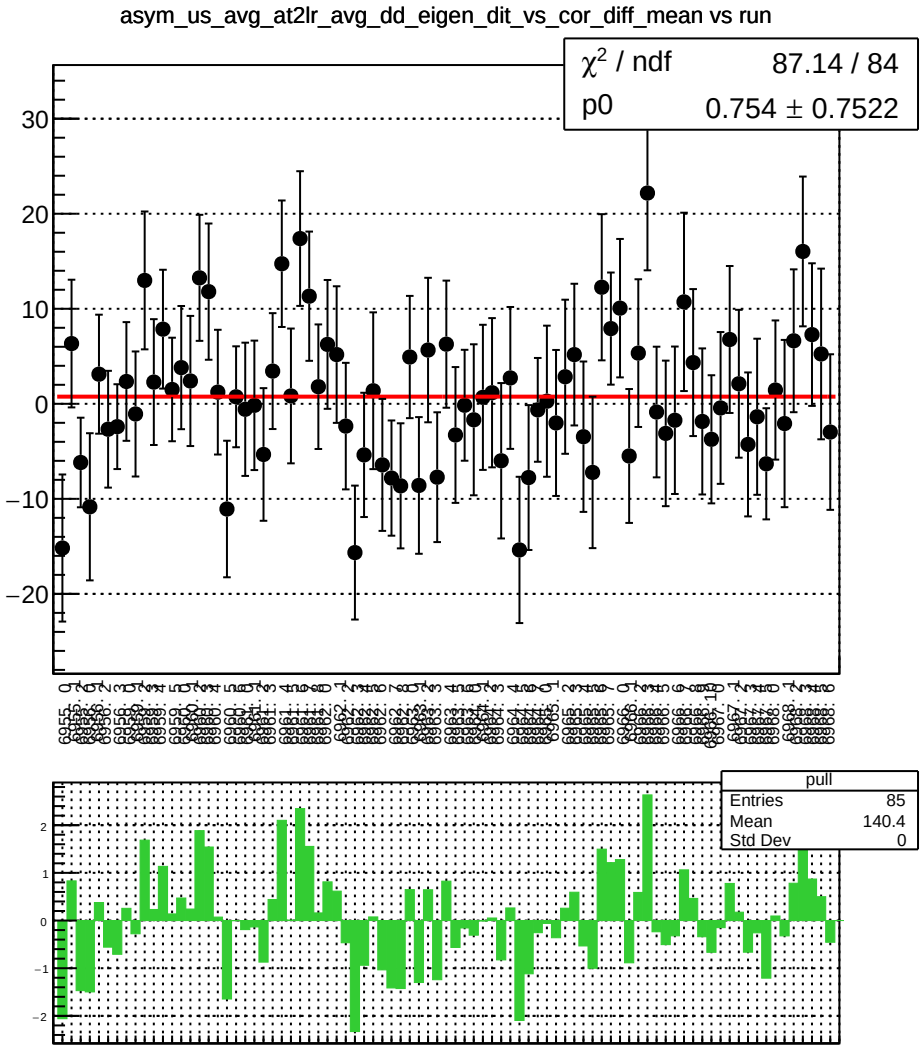

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.14 / 84
p0 0.754 ± 0.7521
pull
Entries 85
Mean 140.4
Std Dev 0
pull1D
Entries 85
Mean 0.01527
Std Dev 1.012

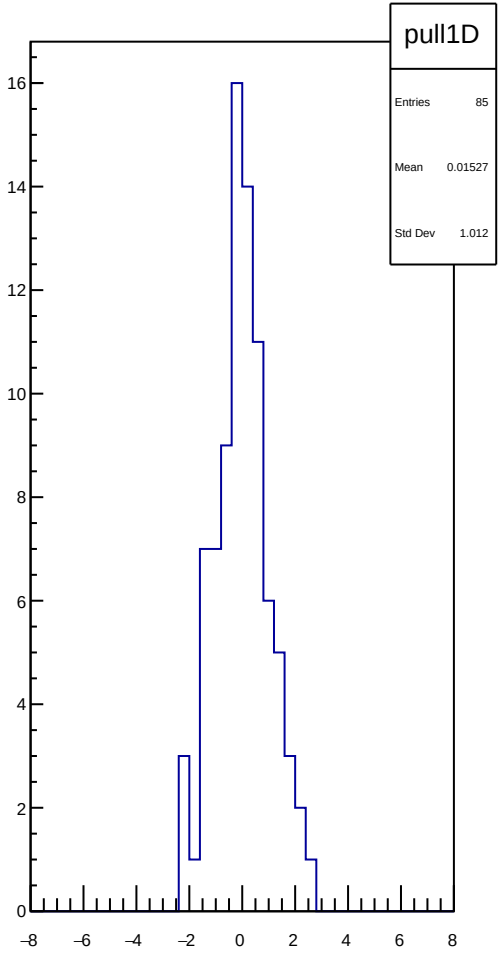

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.404e+04 / 84
p0 678.7 ± 0.5318
900
850
800
750
700
650
600
550

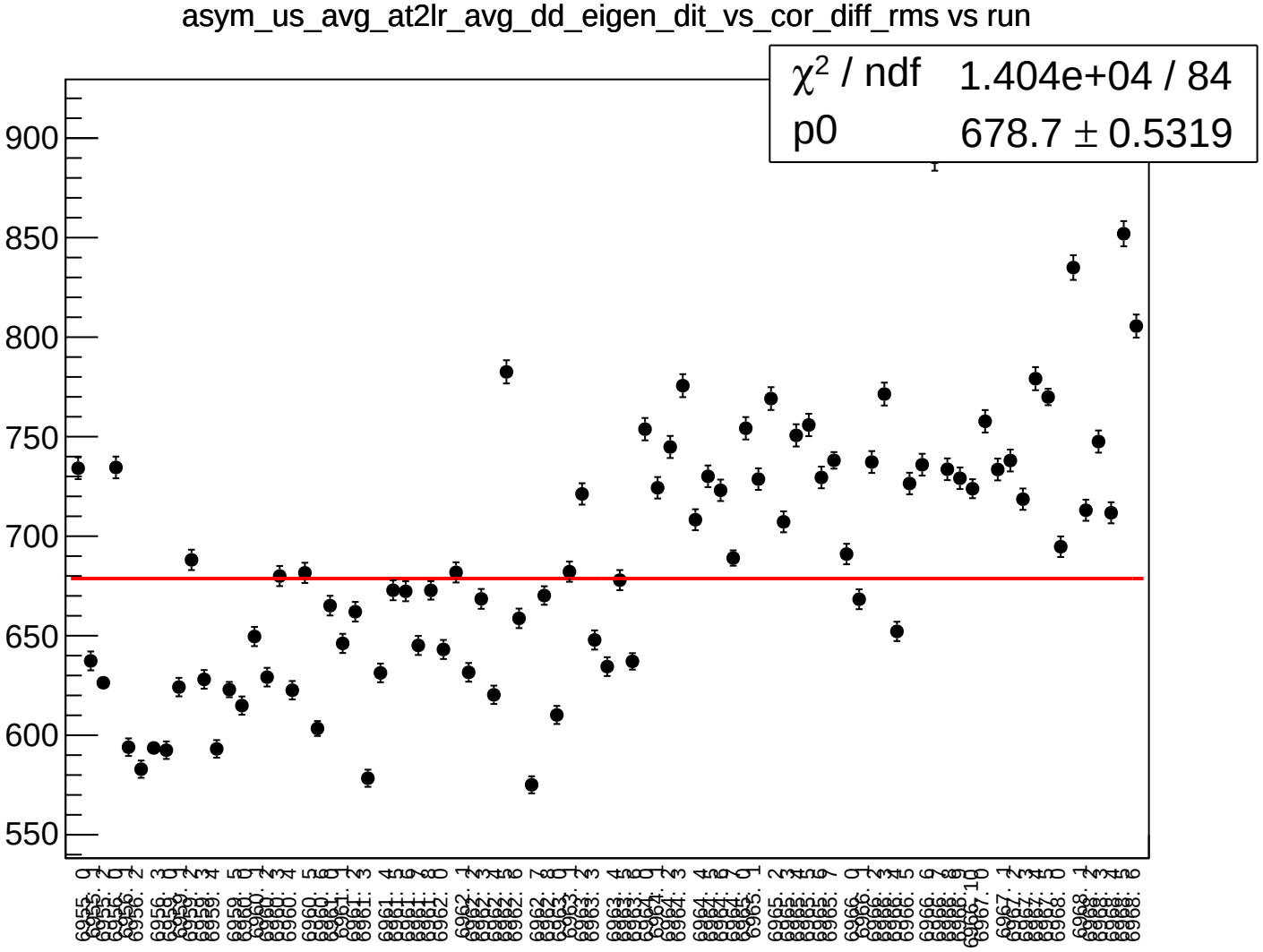

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.05 / 84
p0 −4.791e−07 ± 1.28e−05
pull
Entries 85
Mean 135.9
Std Dev 0

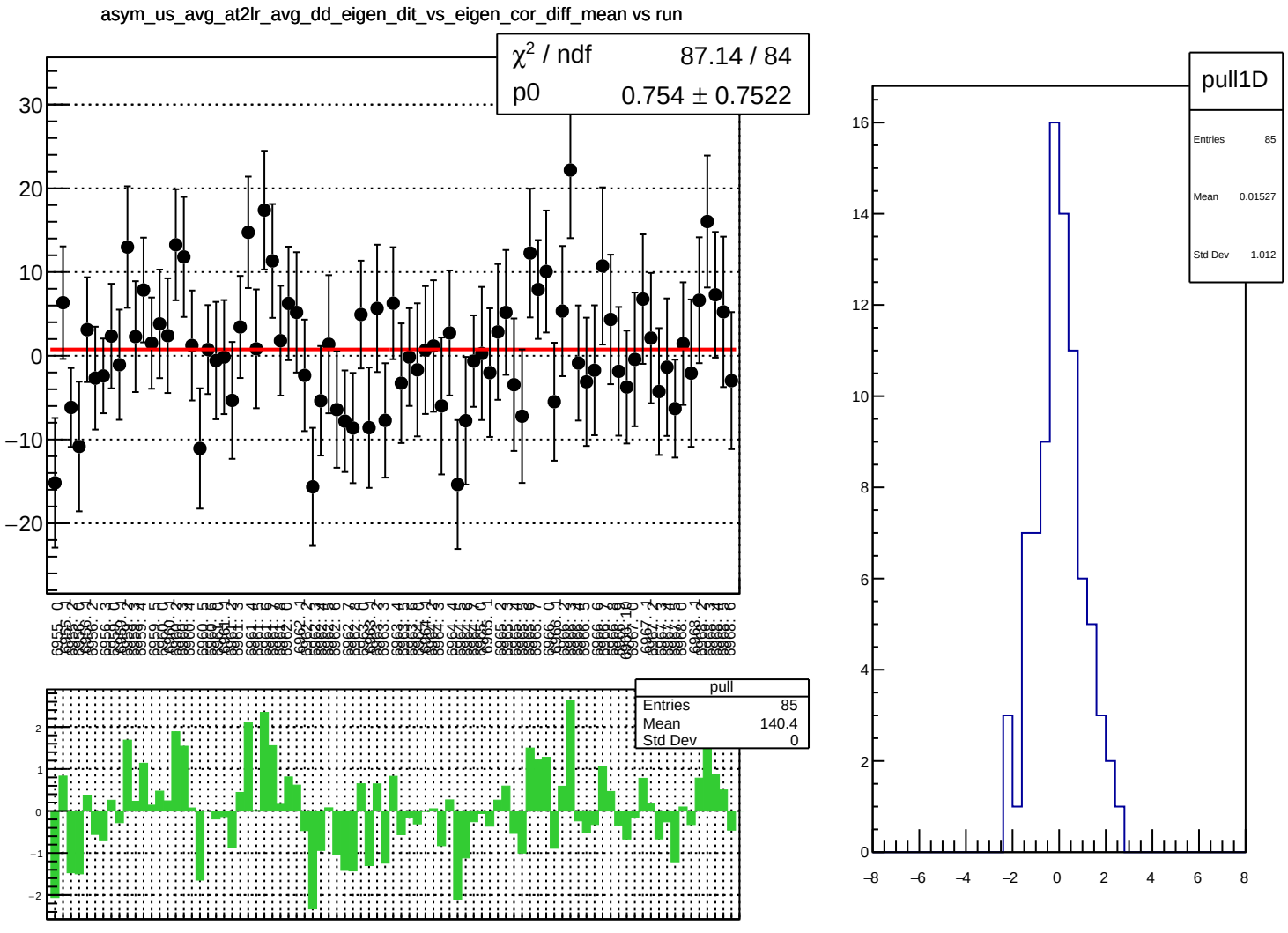

pull1D
Entries 85
Mean 0.01604
Std Dev 1.057

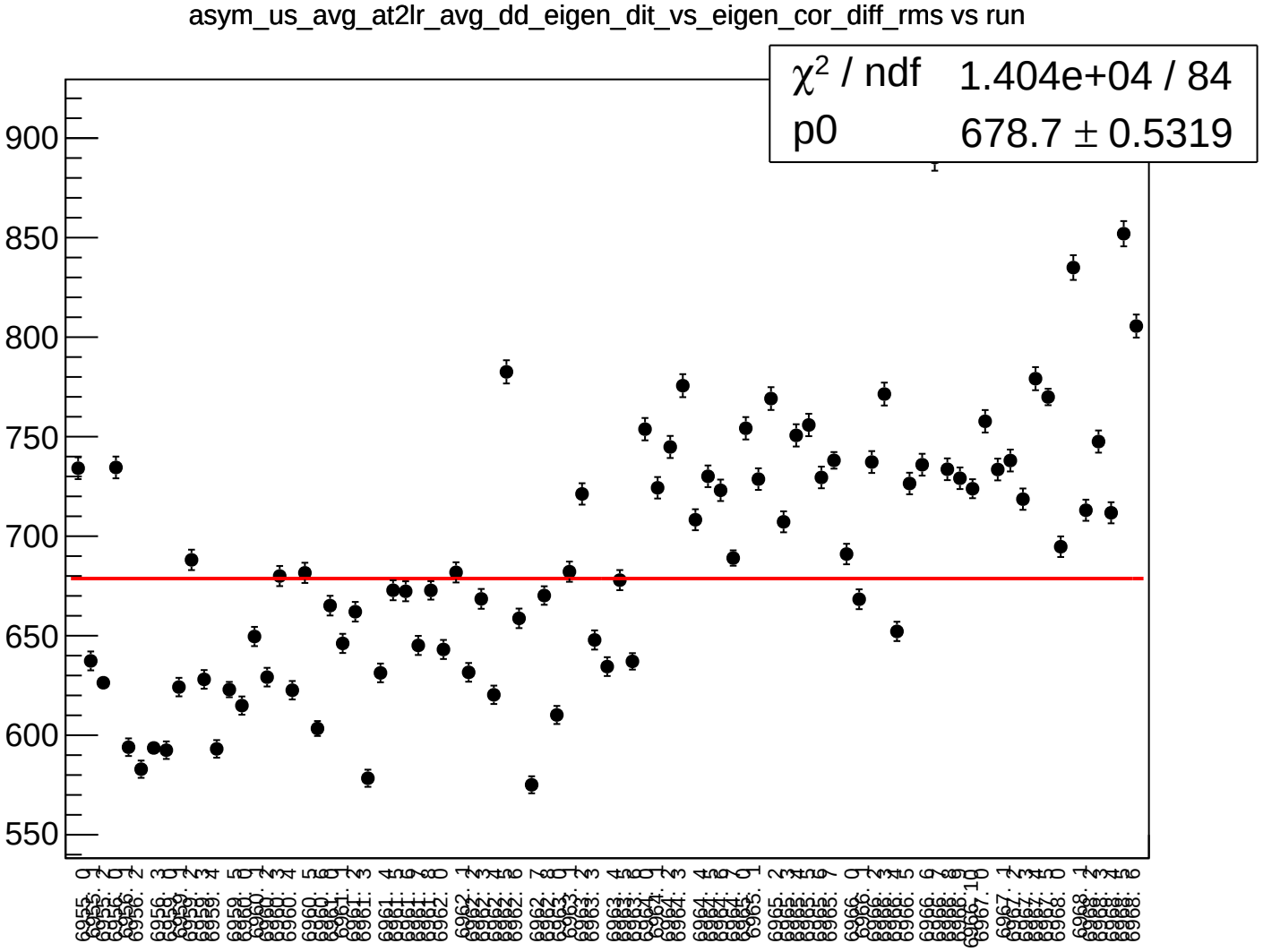

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3912 / 84
p0 0.01159 ± 9.05e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

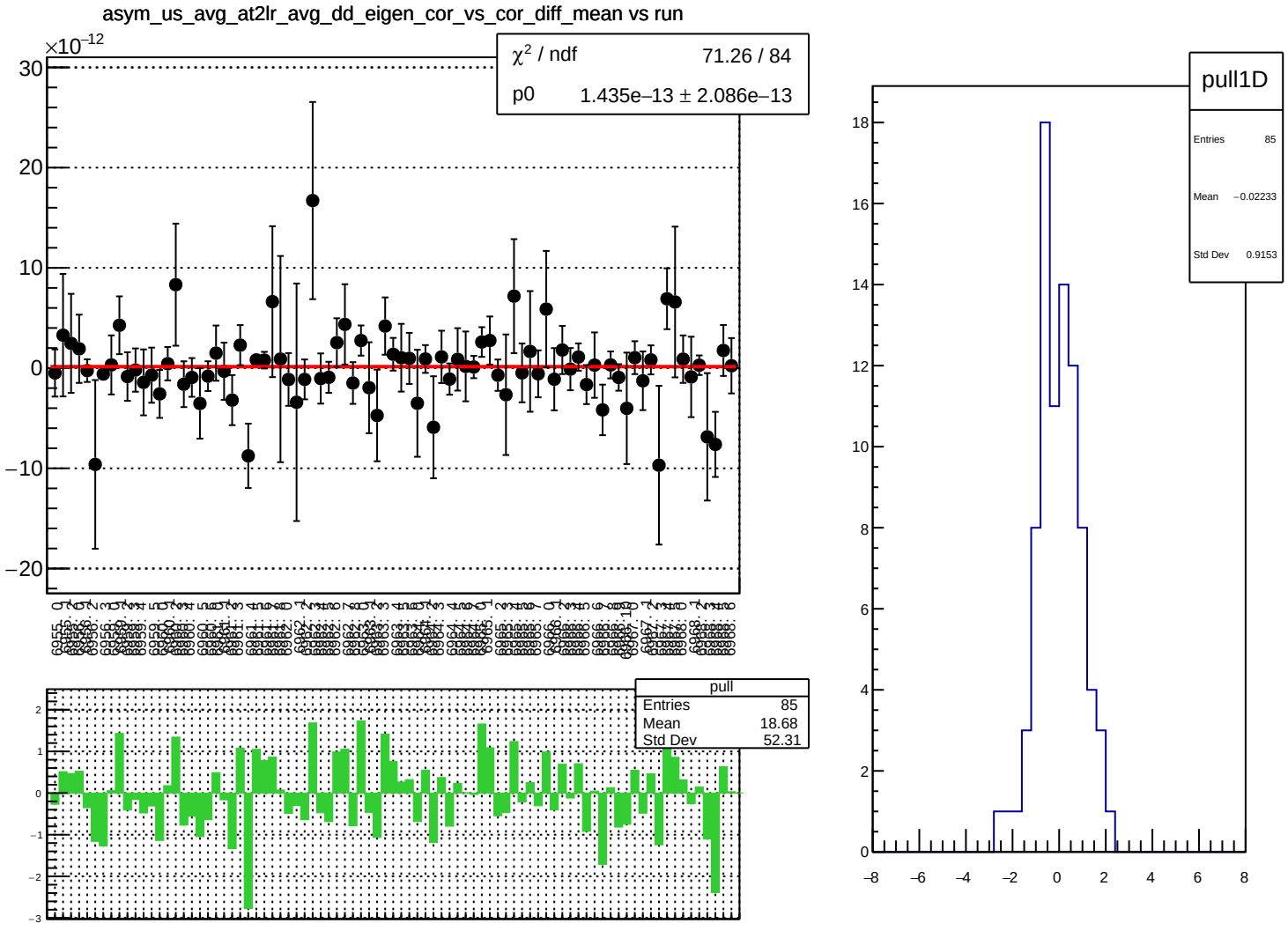

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.14 / 84
p0 0.754 ± 0.7522
pull
Entries 85
Mean 140.4
Std Dev 0

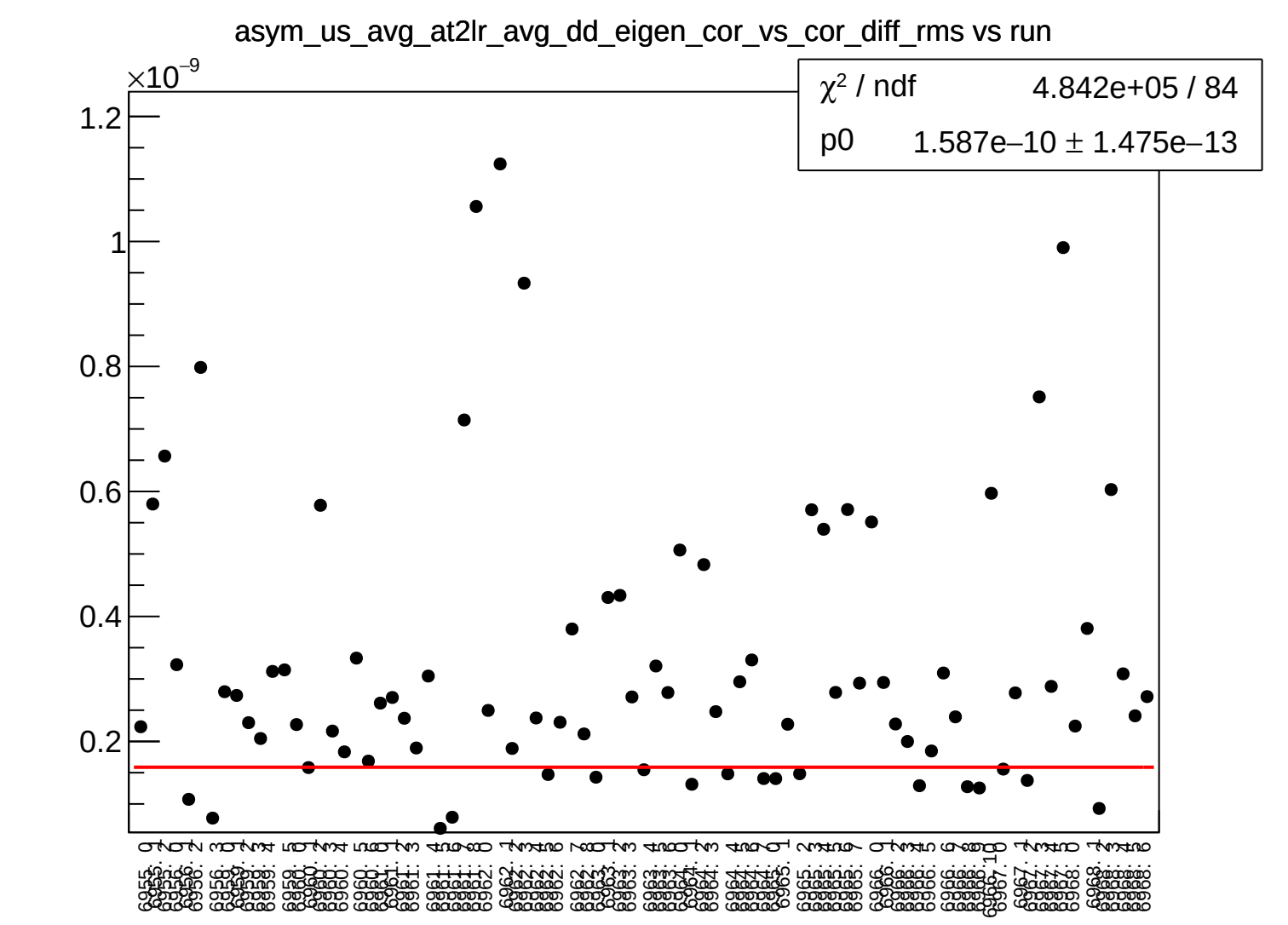

pull1D
Entries 85
Mean 0.01527
Std Dev 1.012

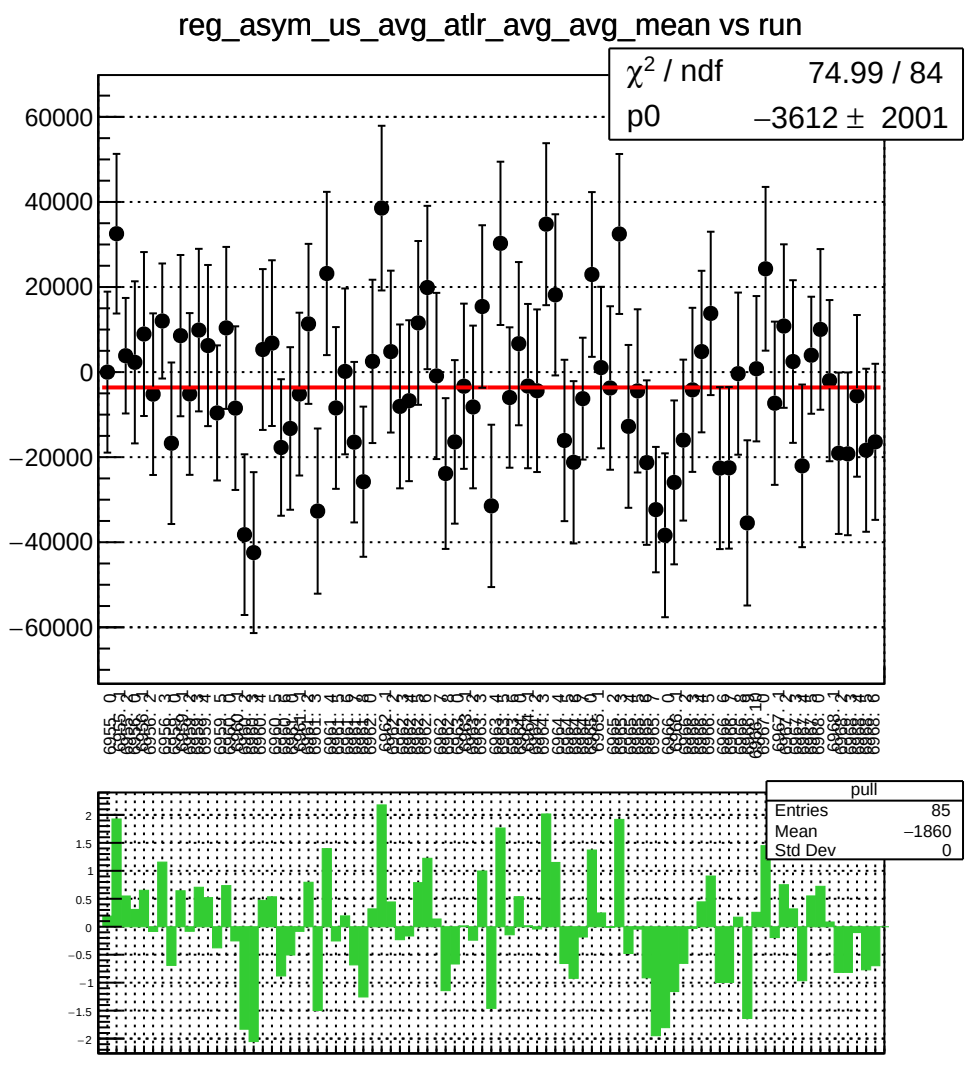

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.404e+04 / 84
p0 678.7 ± 0.5319
900
850
800
750
700
650
600
550

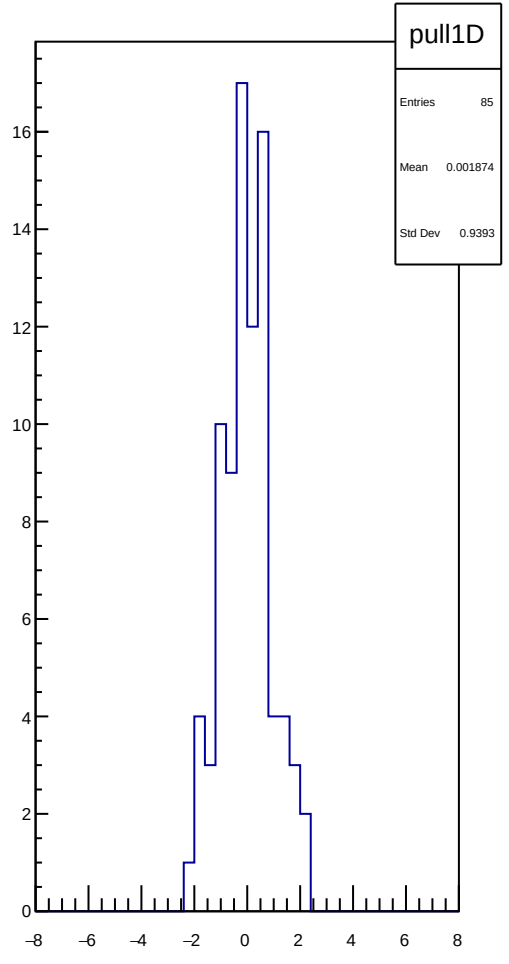

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.14 / 84
p0 0.754 ± 0.7522
pull
Entries 85
Mean 140.4
Std Dev 0
pull1D
Entries 85
Mean 0.01527
Std Dev 1.012

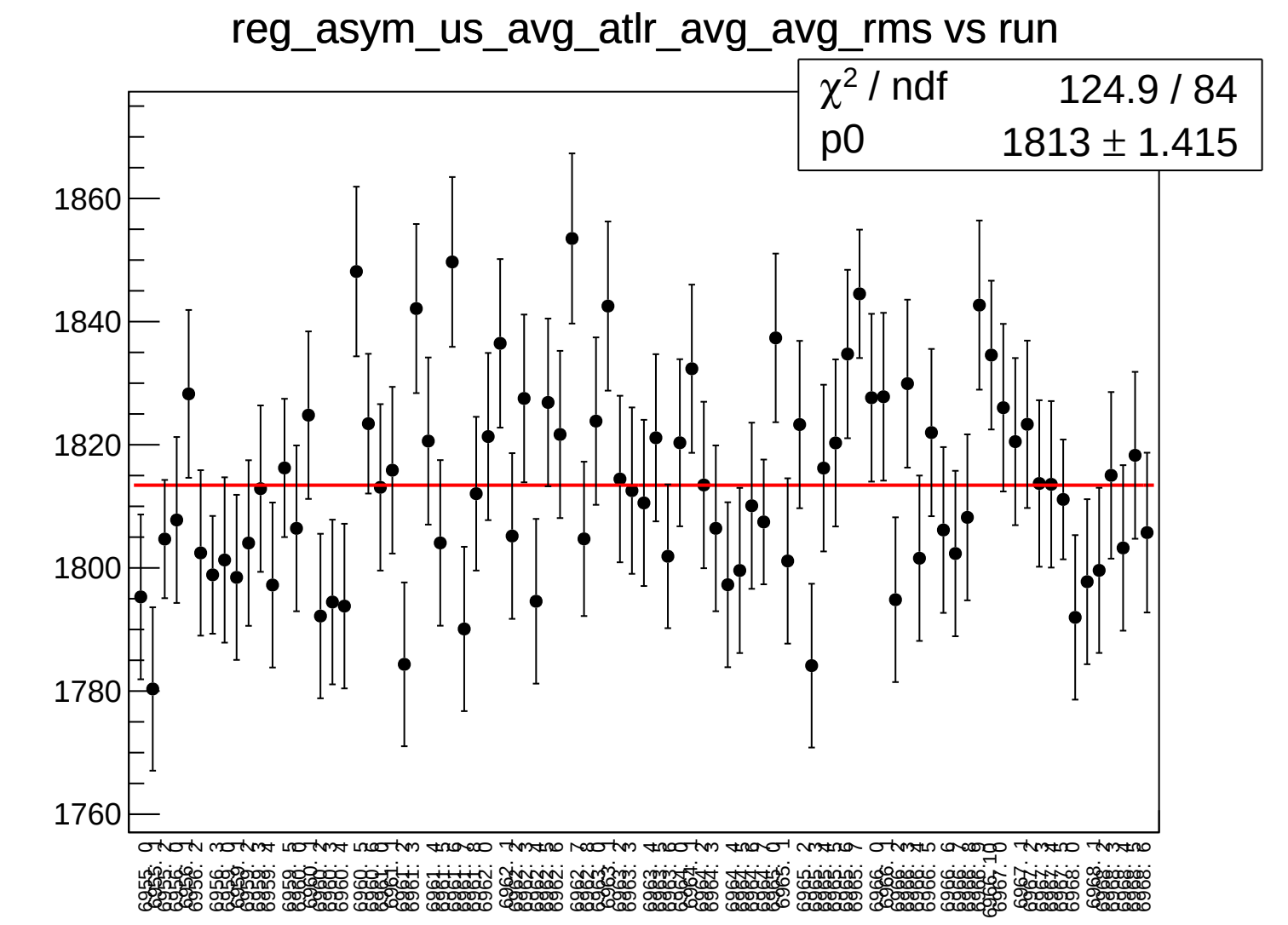

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.404e+04 / 84
p0 678.7 ± 0.5319
900
850
800
750
700
650
600
550

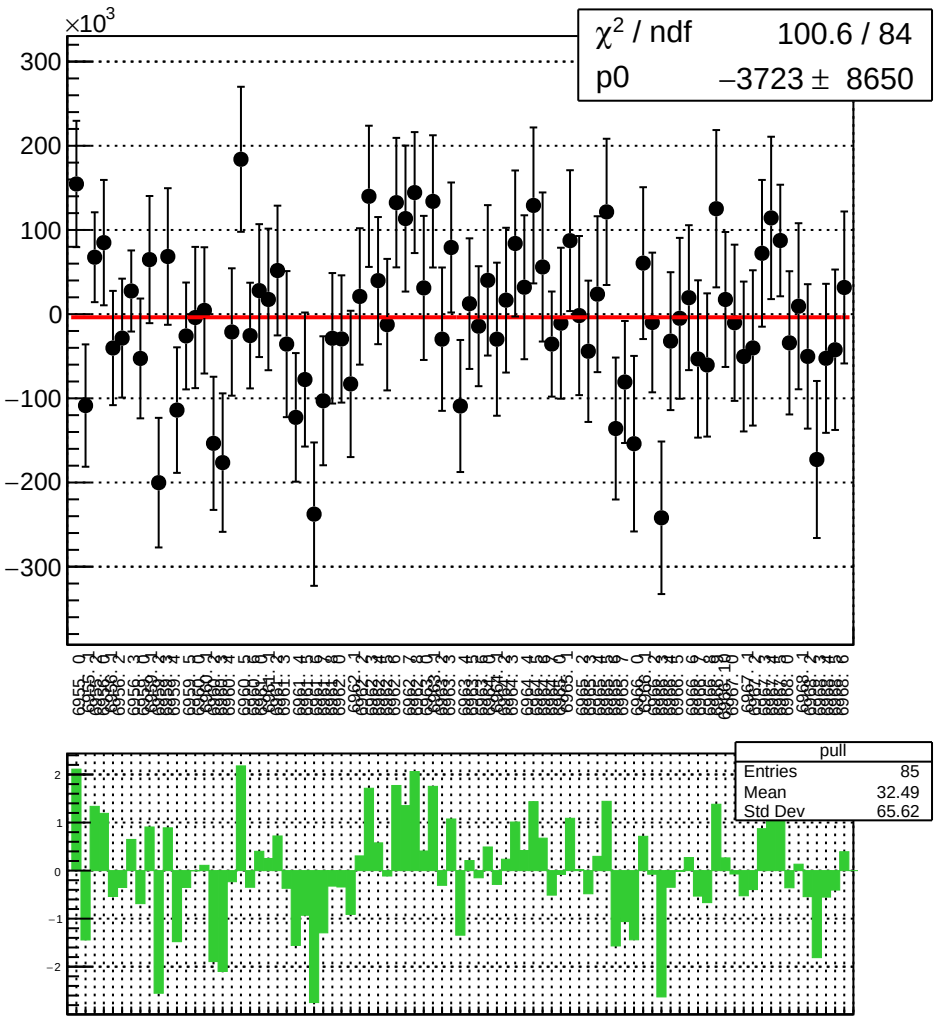

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.26 / 84
p0 1.435e−13 ± 2.086e−13
pull
Entries 85
Mean 18.68
Std Dev 52.31
pull1D
Entries 85
Mean −0.02233
Std Dev 0.9153

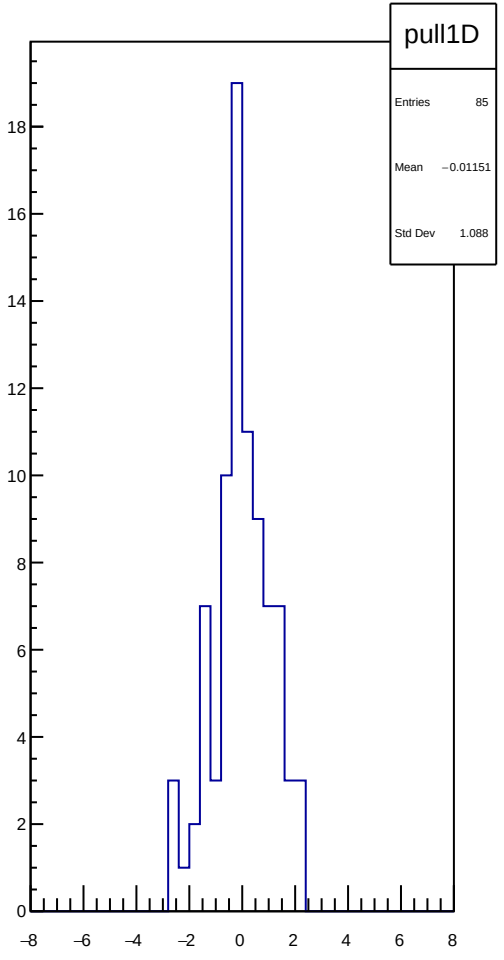

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.842e+05 / 84
p0 1.587e−10 ± 1.475e−13
1.2
1
0.8
0.6
0.4
0.2

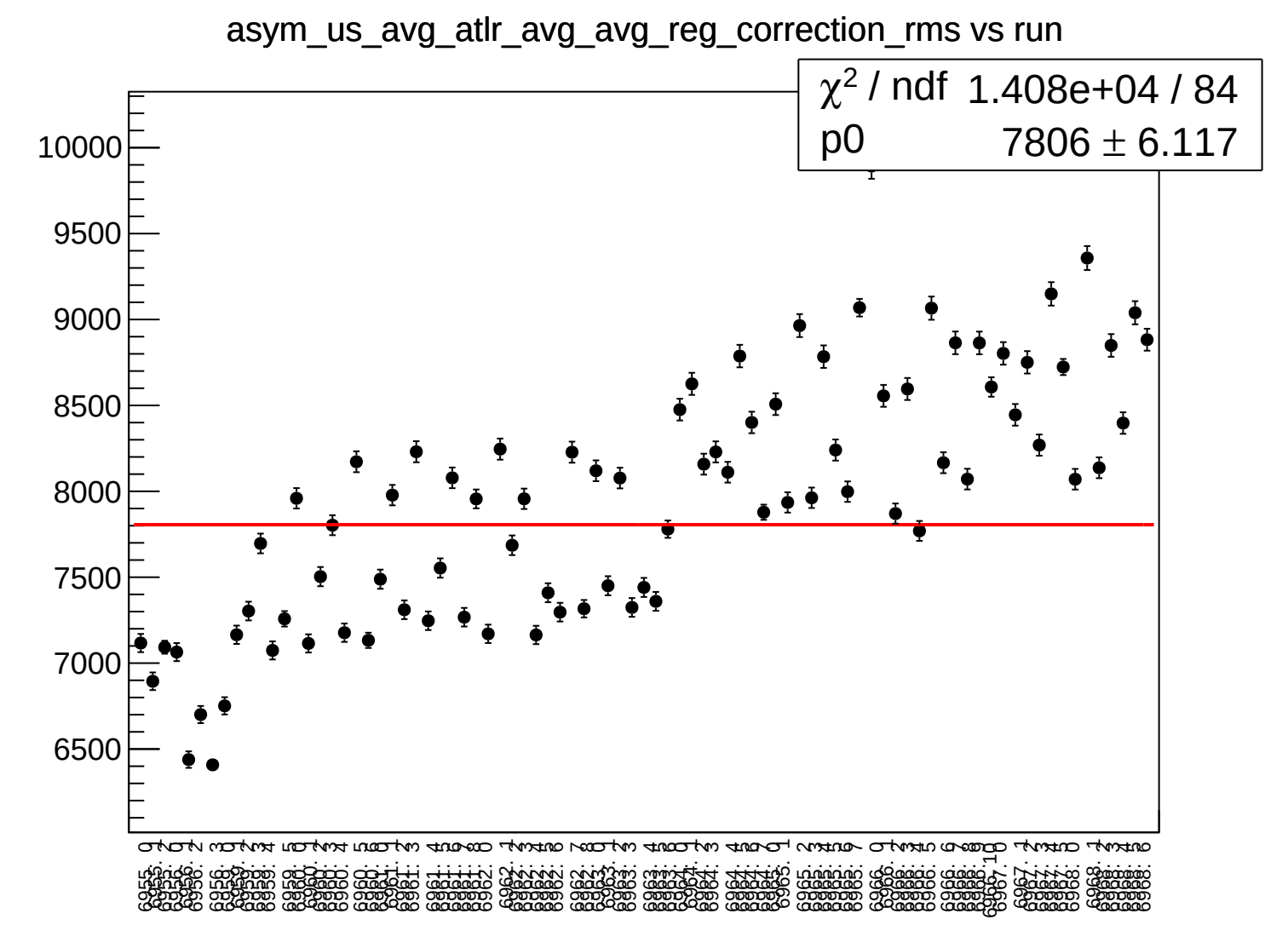

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 74.99 / 84
p0 −3612 ± 2001
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −1860
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

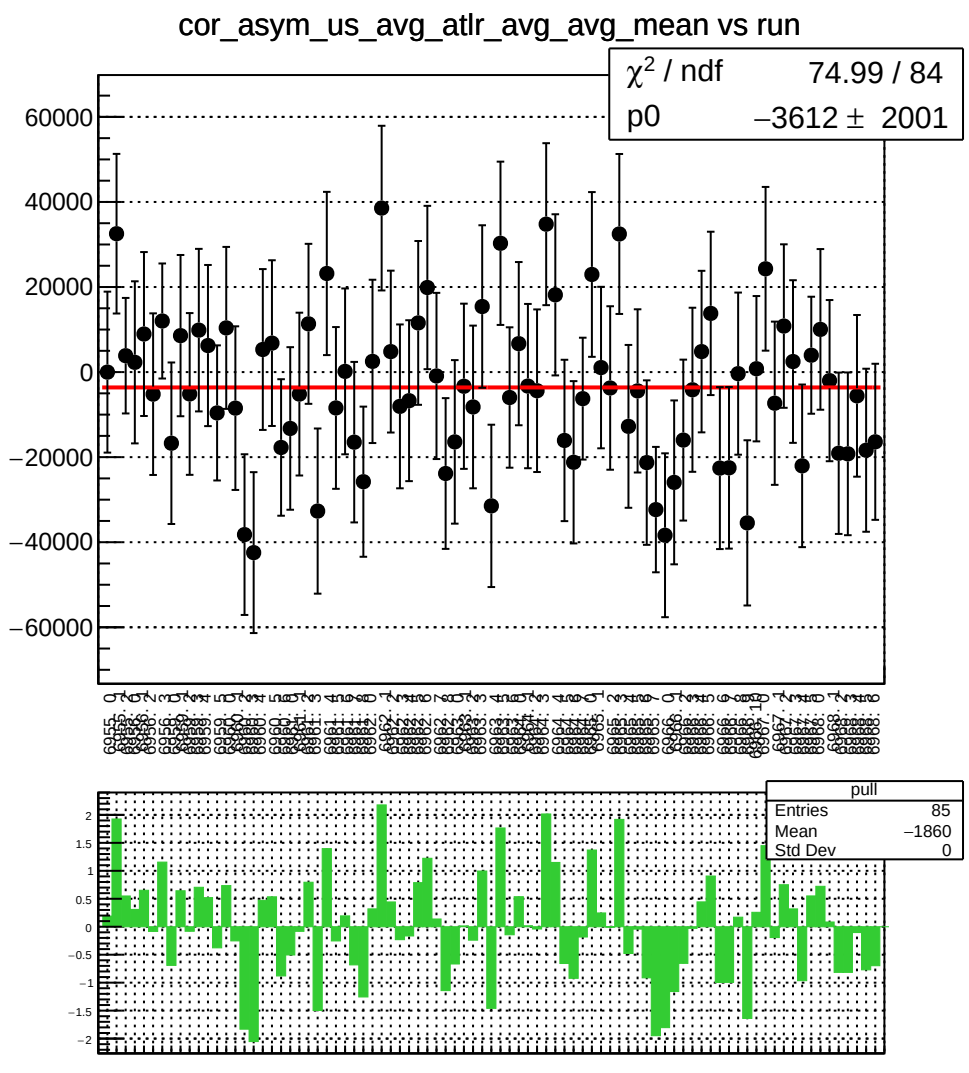

pull1D
Entries 85
Mean 0.001874
Std Dev 0.9393
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

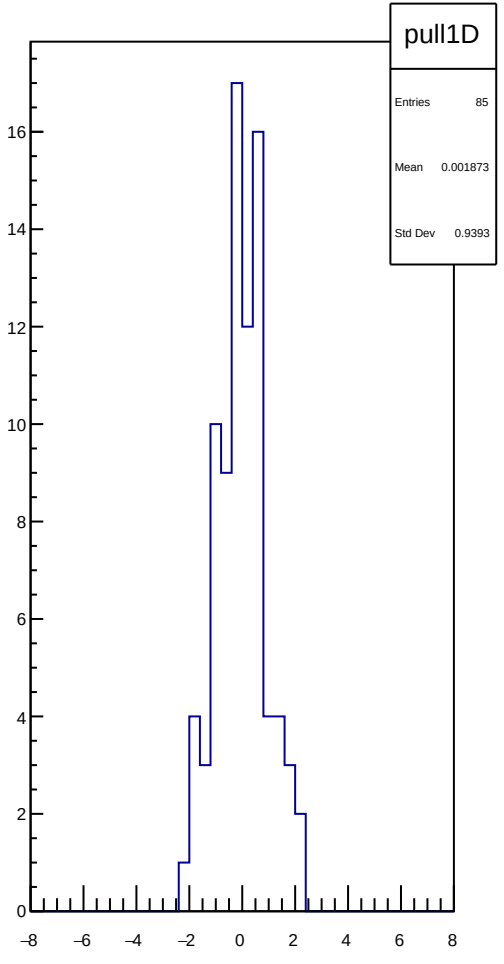

reg_asym_us_avg_atlr_avg_avg_rms vs run
$\chi^2$ / ndf 124.9 / 84
p0 1813 ± 1.415
1860
1840
1820
1800
1780
1760

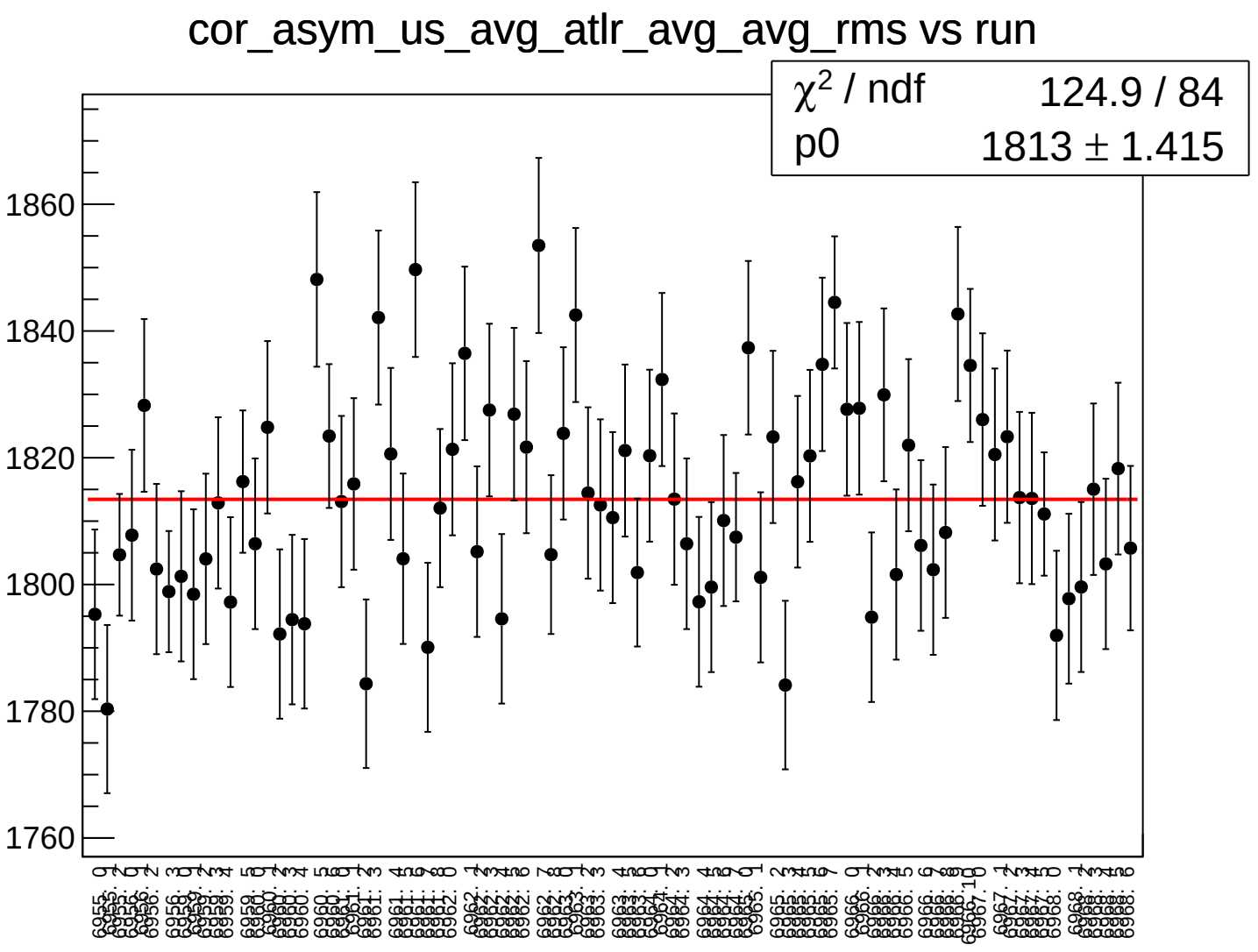

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.6 / 84
p0 −3723 ± 8650
300
200
100
0
−100
−200
−300
pull
Entries 85
Mean 32.49
Std Dev 65.62
2
1
0
−1
−2

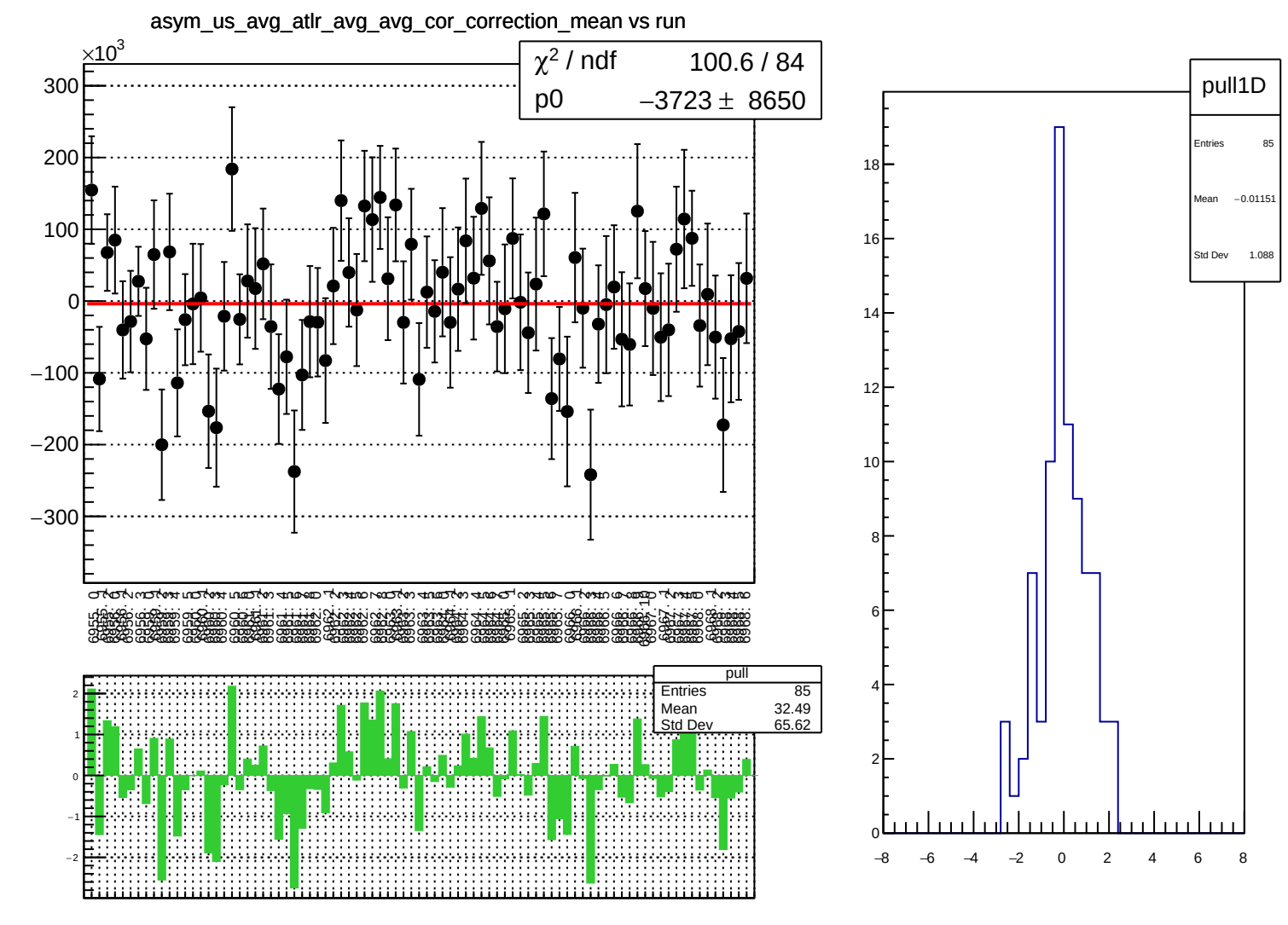

pull1D
Entries 85
Mean −0.01151
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

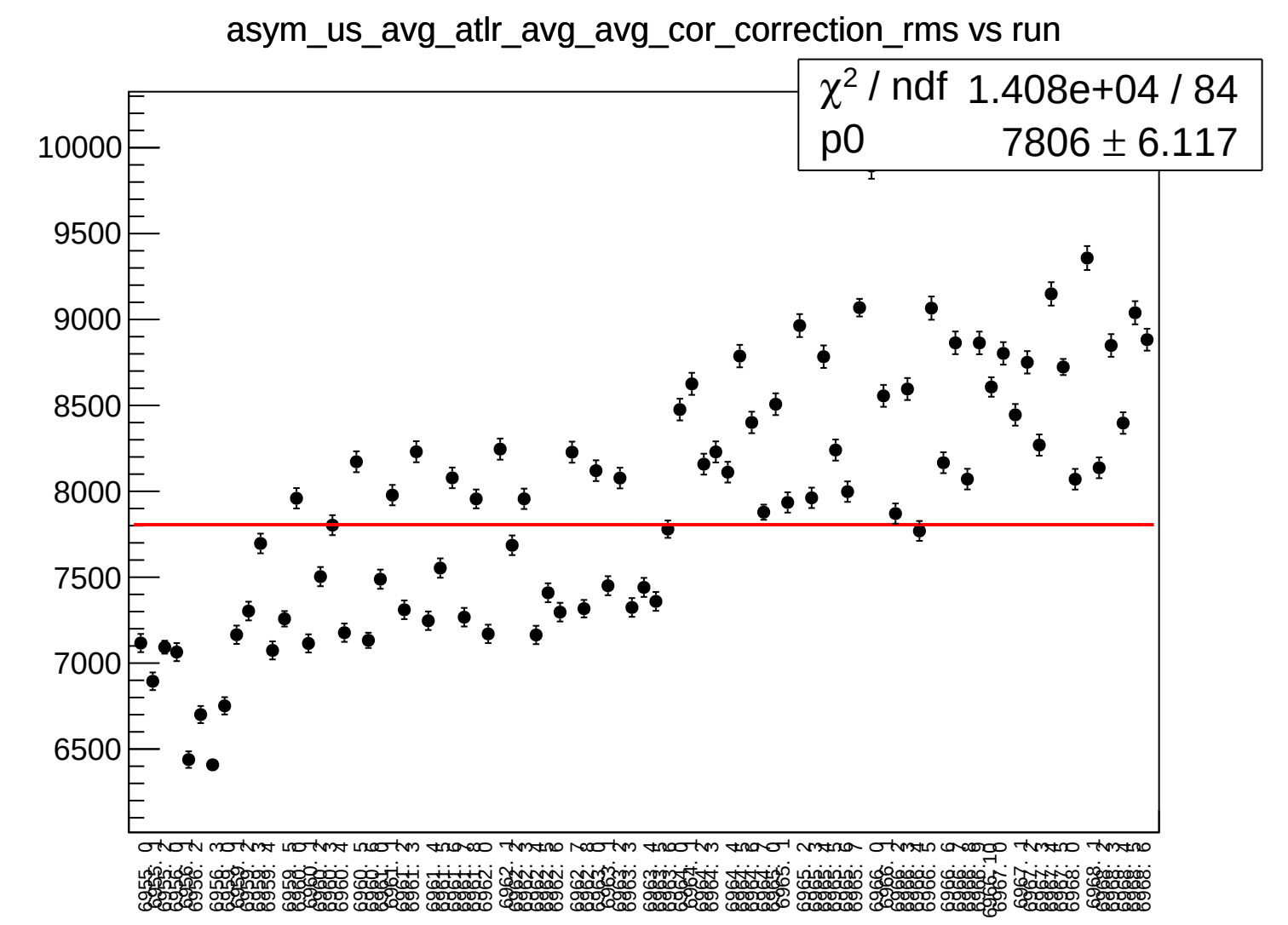

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
$\chi^2$ / ndf 1.408e+04 / 84
p0 7806 ± 6.117
10000
9500
9000
8500
8000
7500
7000
6500

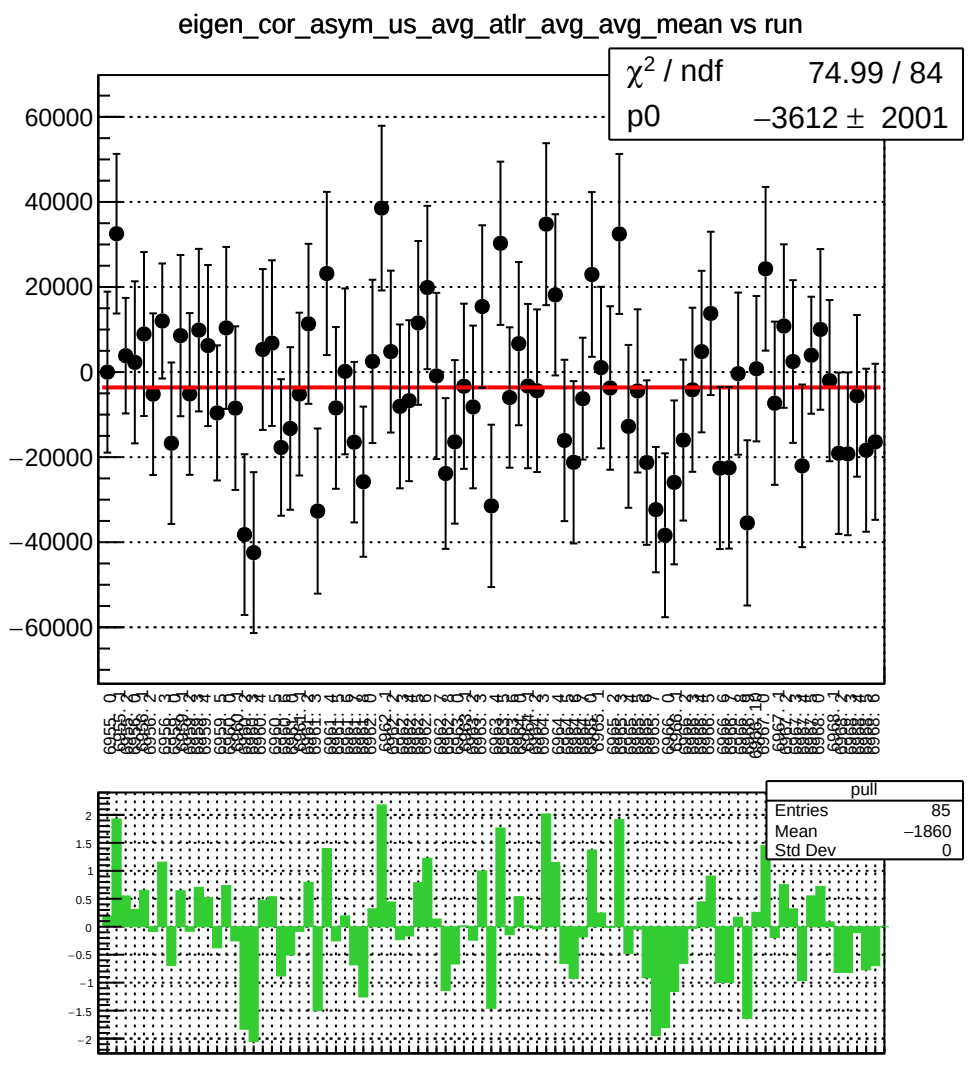

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 74.99 / 84
p0 −3612 ± 2001
pull
Entries 85
Mean −1860
Std Dev 0

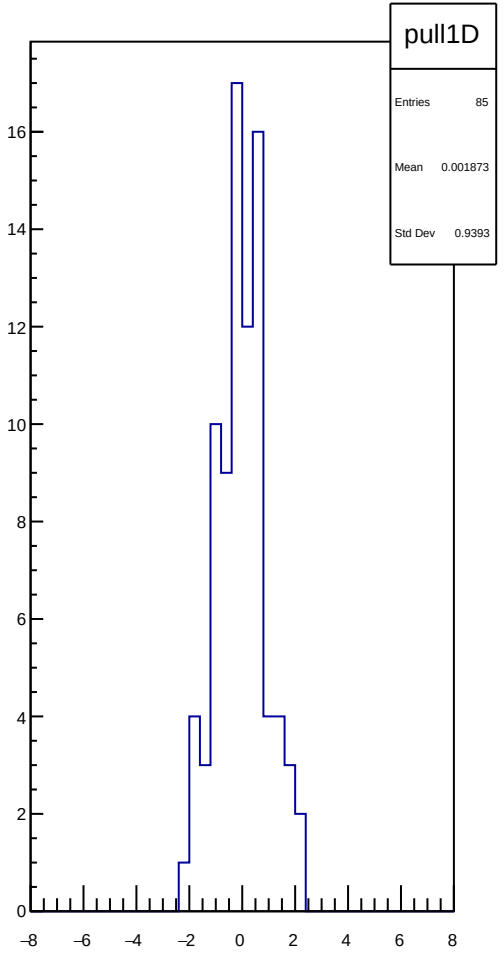

pull1D
Entries 85
Mean 0.001873
Std Dev 0.9393

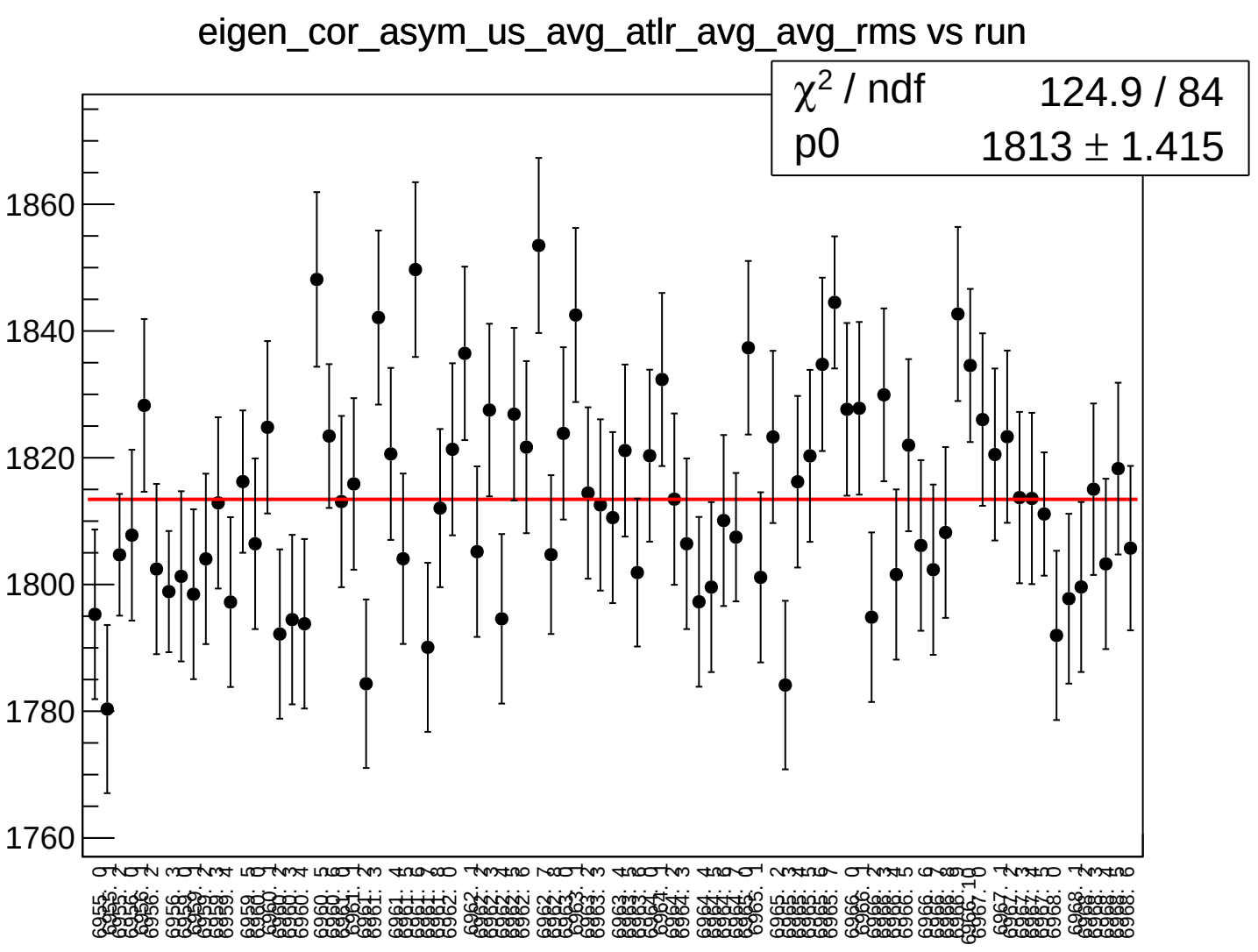

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 124.9 / 84
p0 1813 ± 1.415
1860
1840
1820
1800
1780
1760

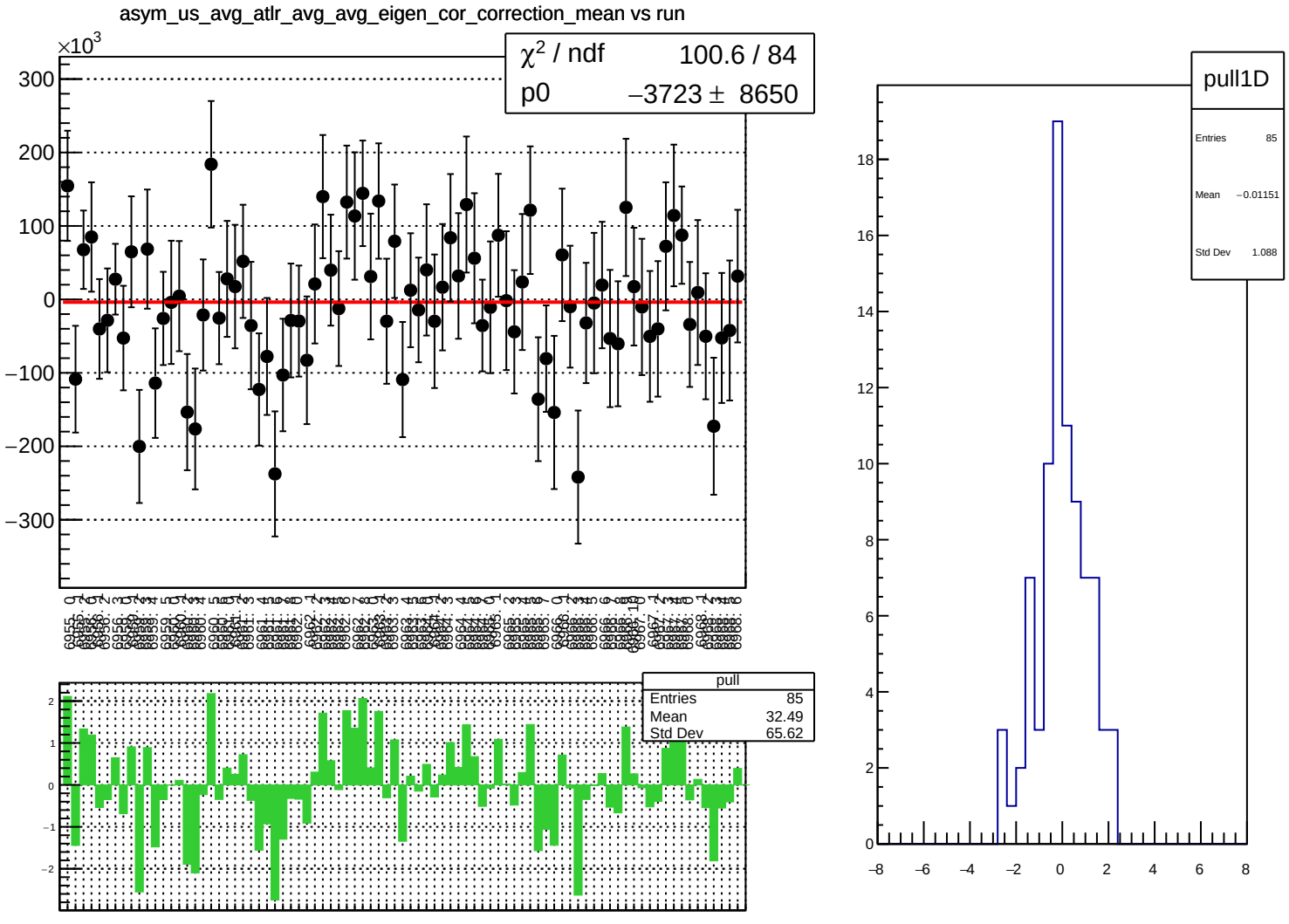

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.6 / 84
p0 −3723 ± 8650
300
200
100
0
−100
−200
−300
pull
Entries 85
Mean 32.49
Std Dev 65.62
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01151
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
$\chi^2$ / ndf 1.408e+04 / 84
p0 7806 ± 6.117
10000
9500
9000
8500
8000
7500
7000
6500


eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 74.99 / 84
p0 −3612 ± 2001
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −1860
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 85
Mean 0.001873
Std Dev 0.9393
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 124.9 / 84
p0 1813 ± 1.415
1860
1840
1820
1800
1780
1760


asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.6 / 84
p0 −3723 ± 8650
300
200
100
0
−100
−200
−300
pull
Entries 85
Mean 32.49
Std Dev 65.62
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01151
Std Dev 1.088
18
16
14
12
10
8
6
4
2
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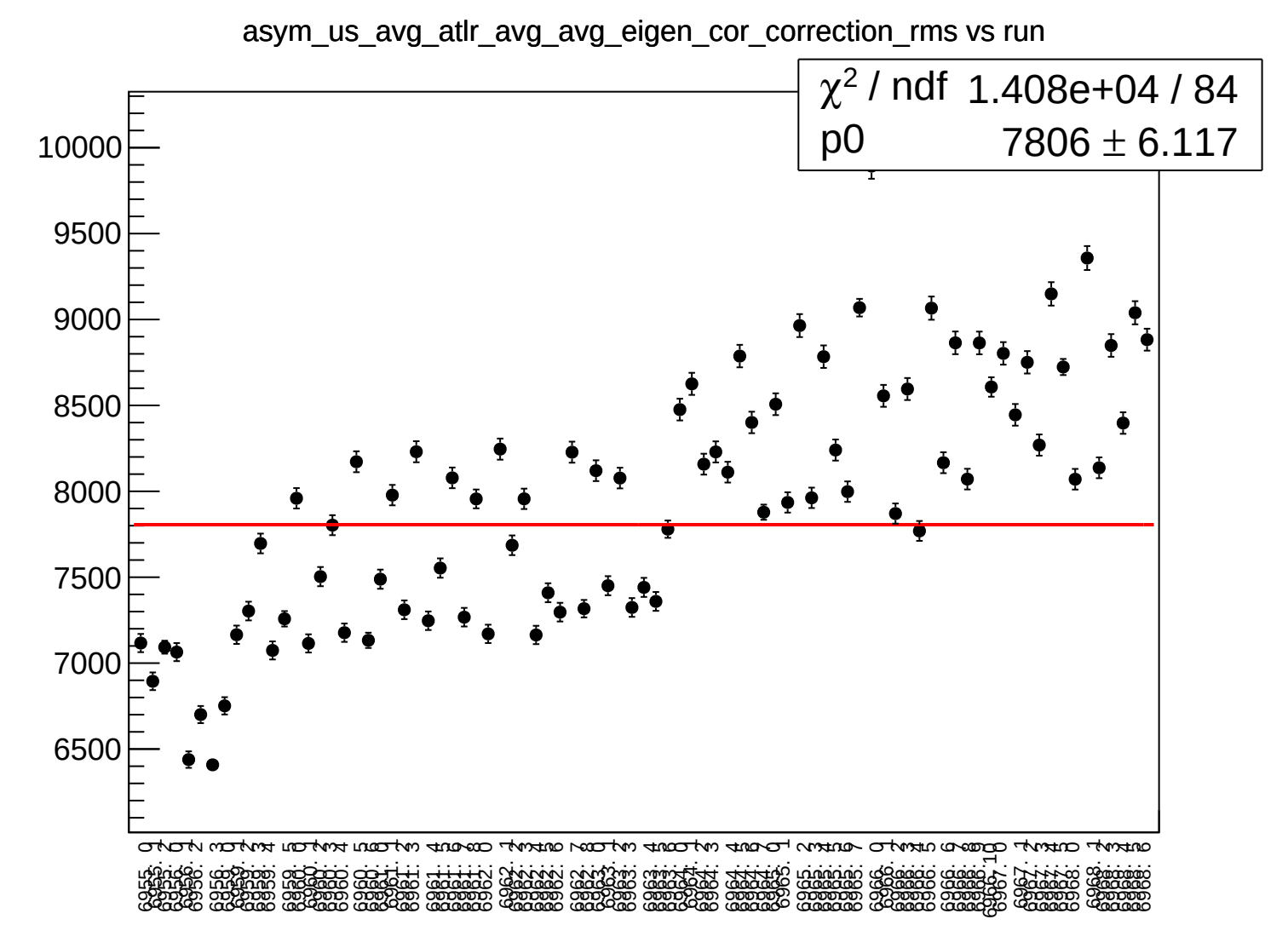
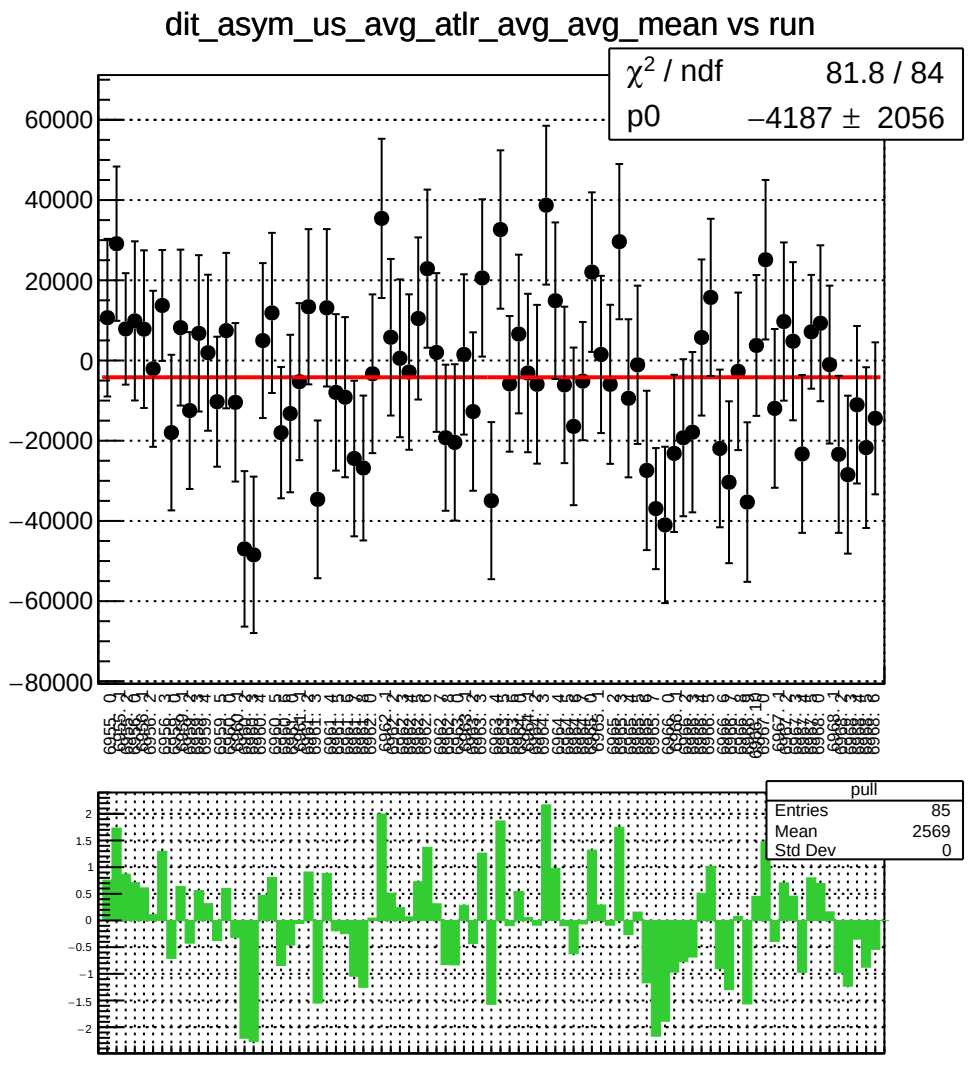
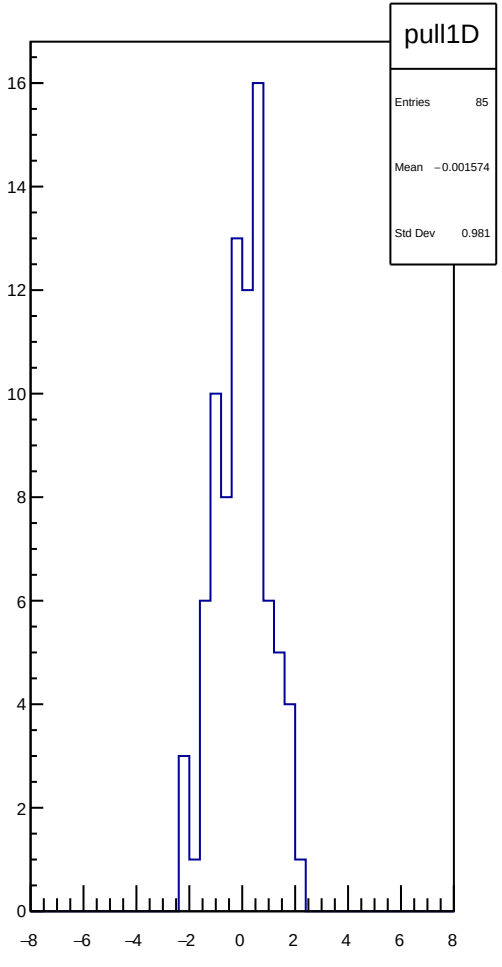
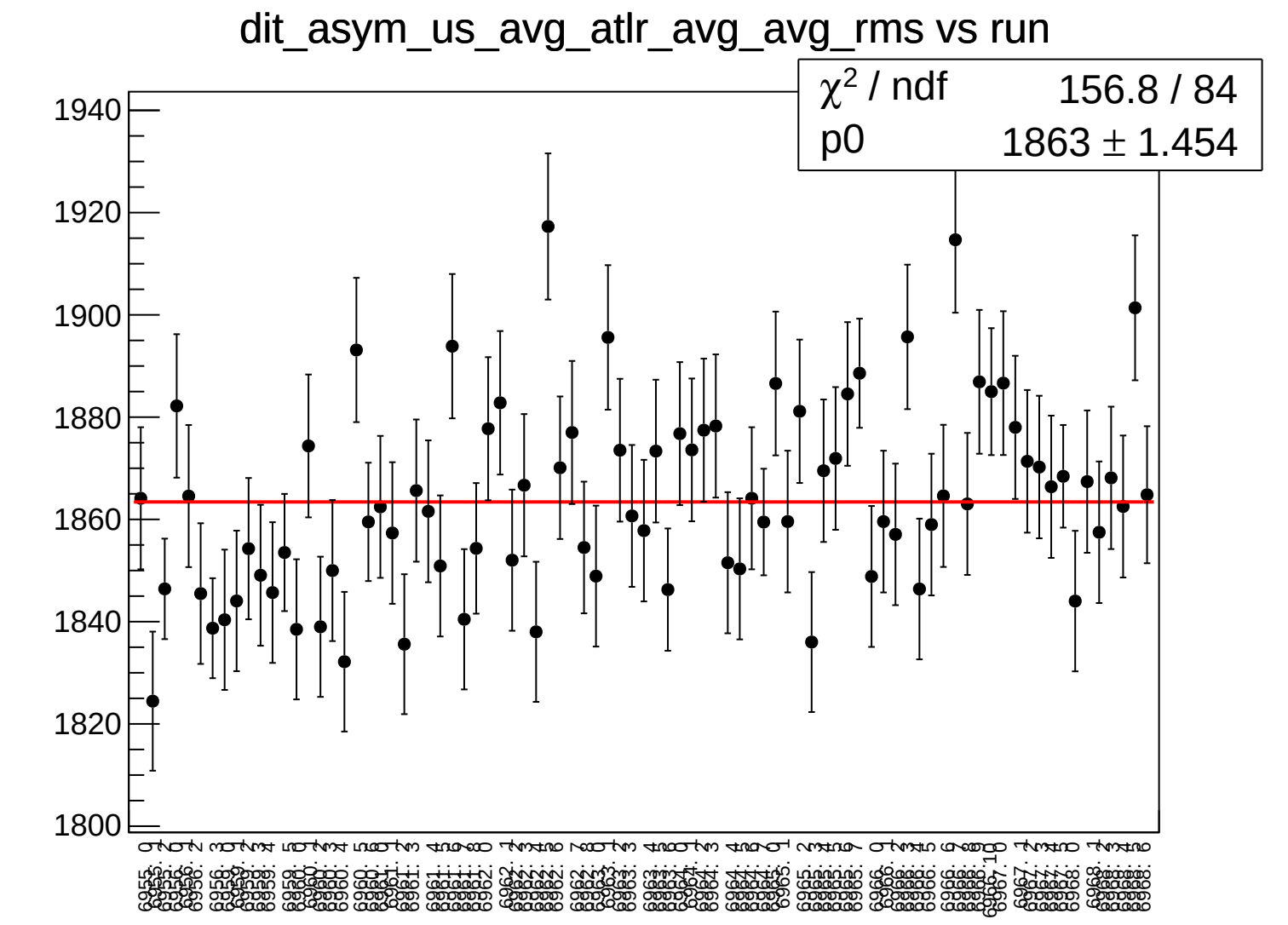
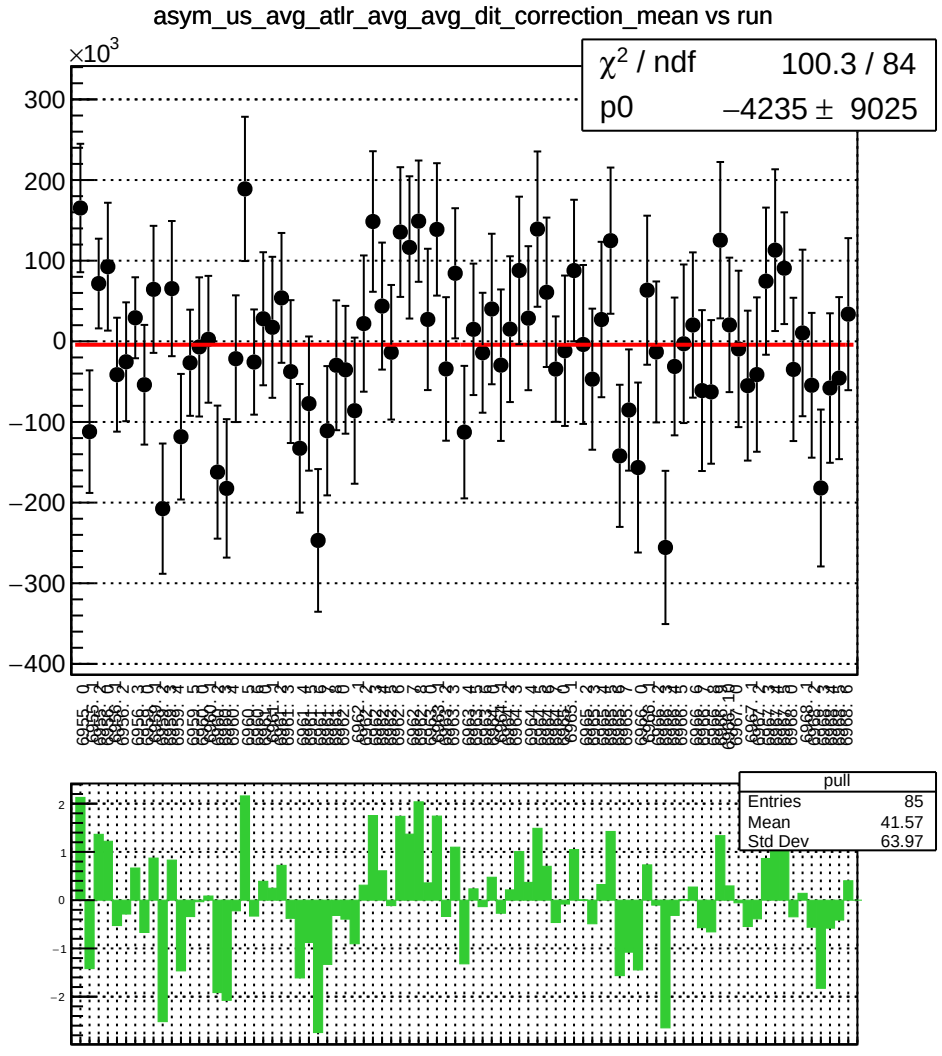
−8
−6
−4
−2
0
2
4
6
8

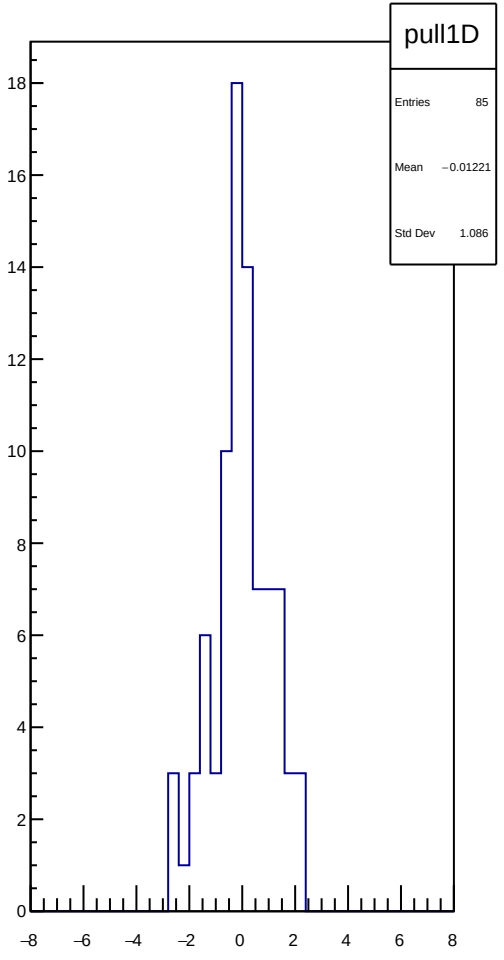

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.408e+04 / 84
p0 7806 ± 6.117
10000
9500
9000
8500
8000
7500
7000
6500

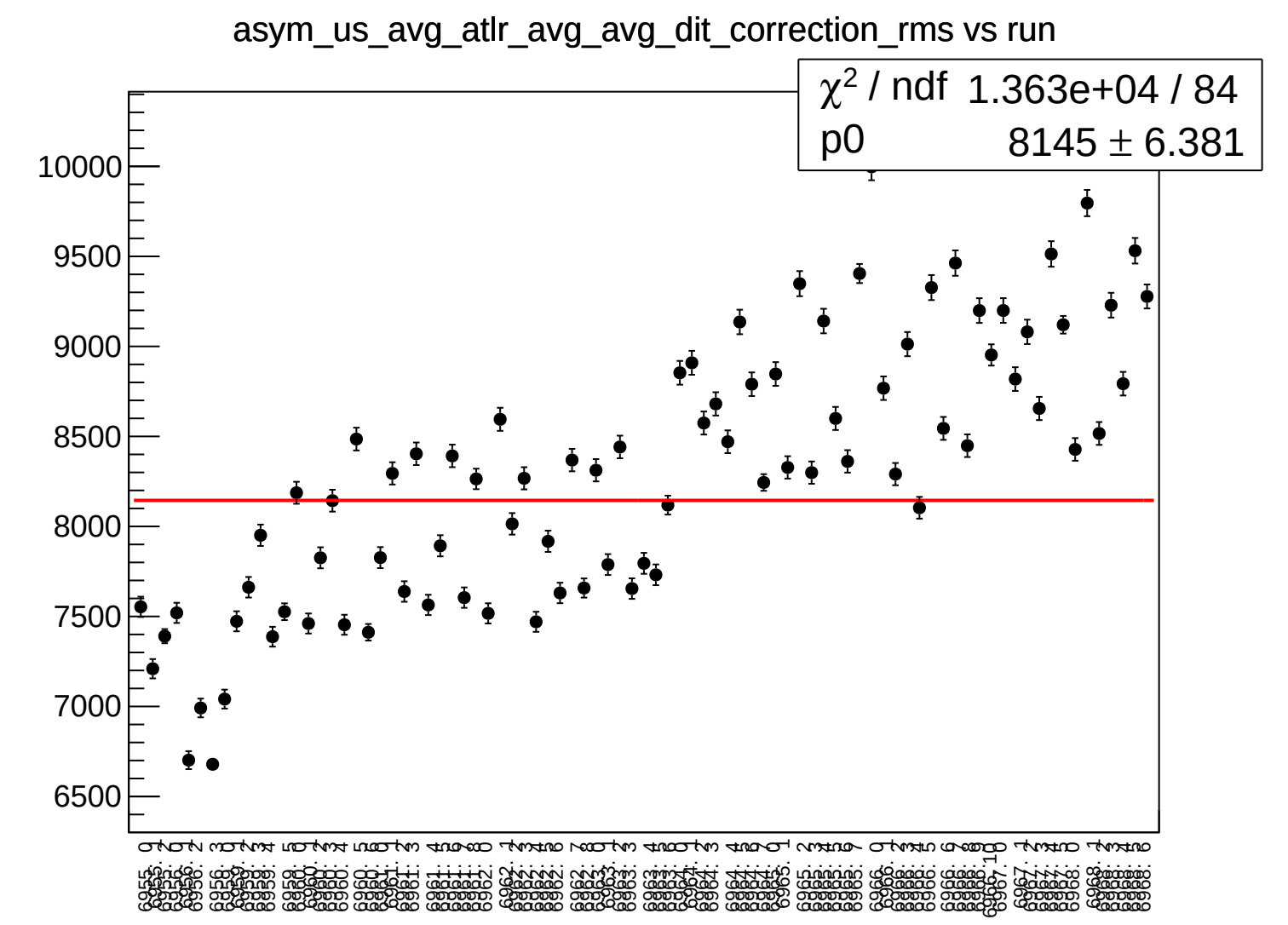

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 81.8 / 84
p0 −4187 ± 2056
pull
Entries 85
Mean 2569
Std Dev 0

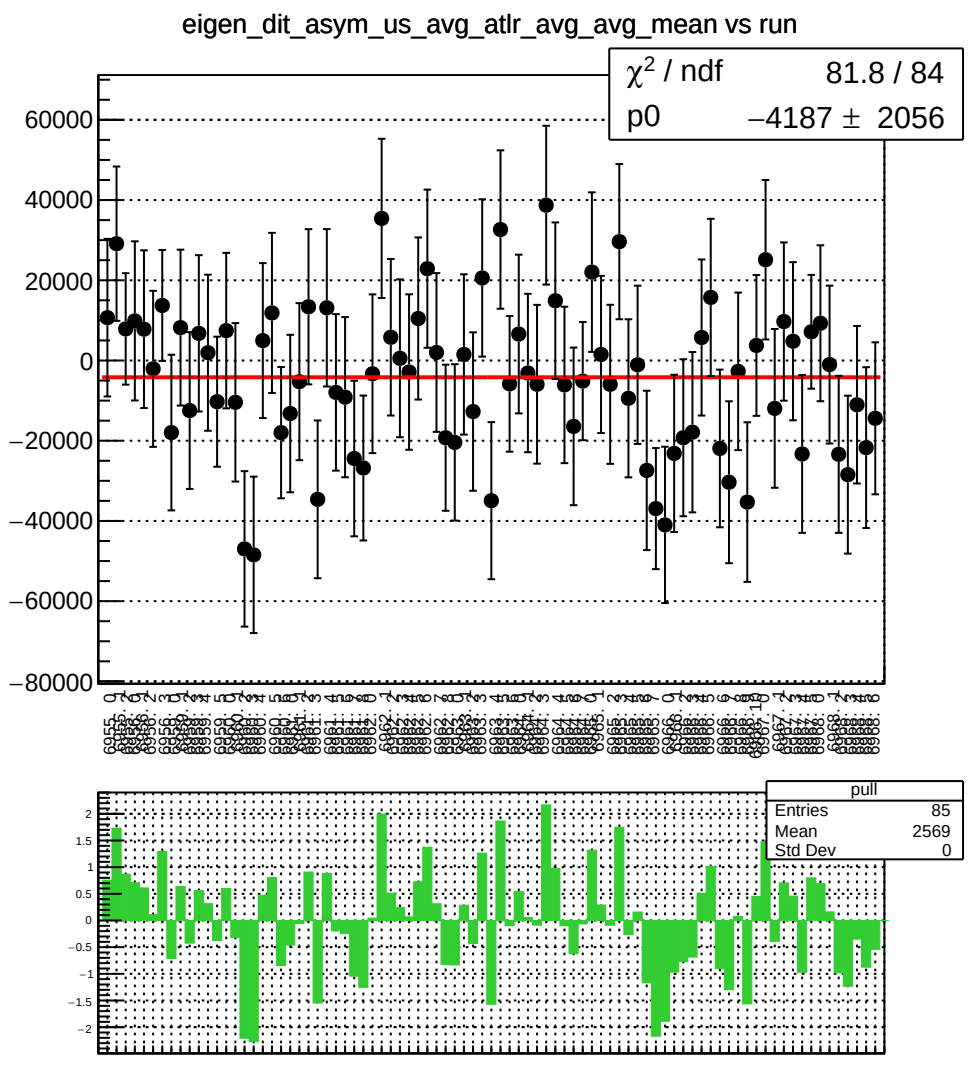

pull1D
Entries 85
Mean −0.001574
Std Dev 0.981

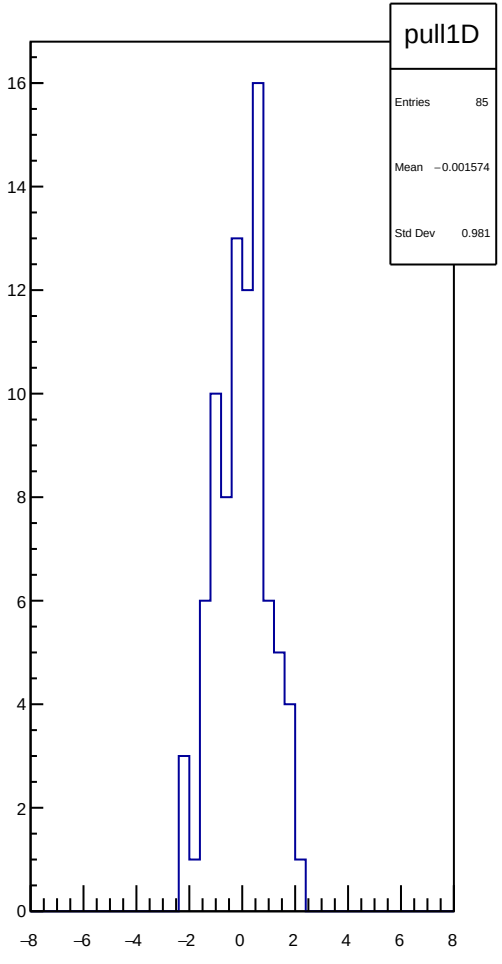

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 156.8 / 84
p0 1863 ± 1.454
1940
1920
1900
1880
1860
1840
1820
1800

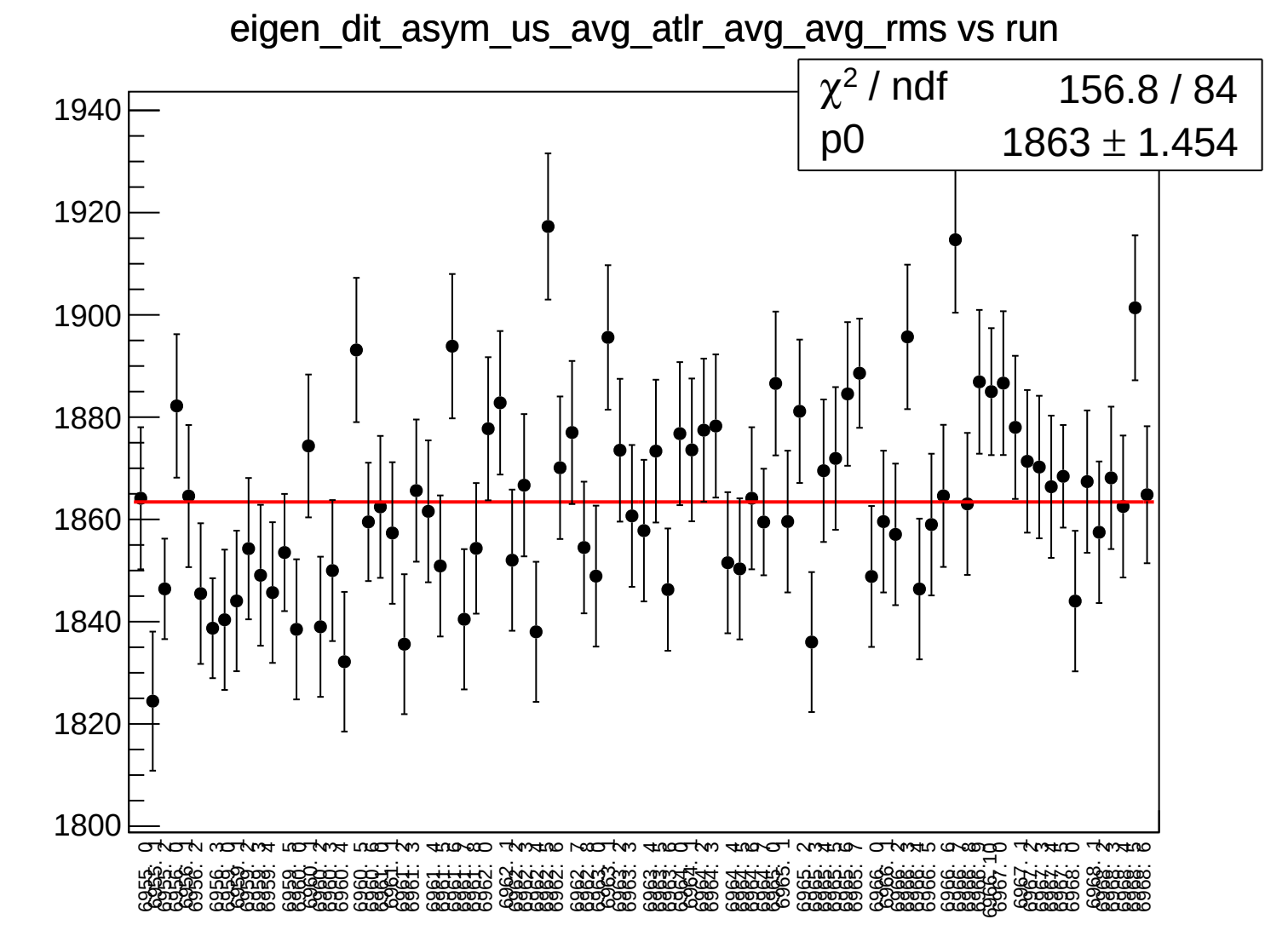

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.3 / 84
p0 −4235 ± 9025
pull
Entries 85
Mean 41.57
Std Dev 63.97

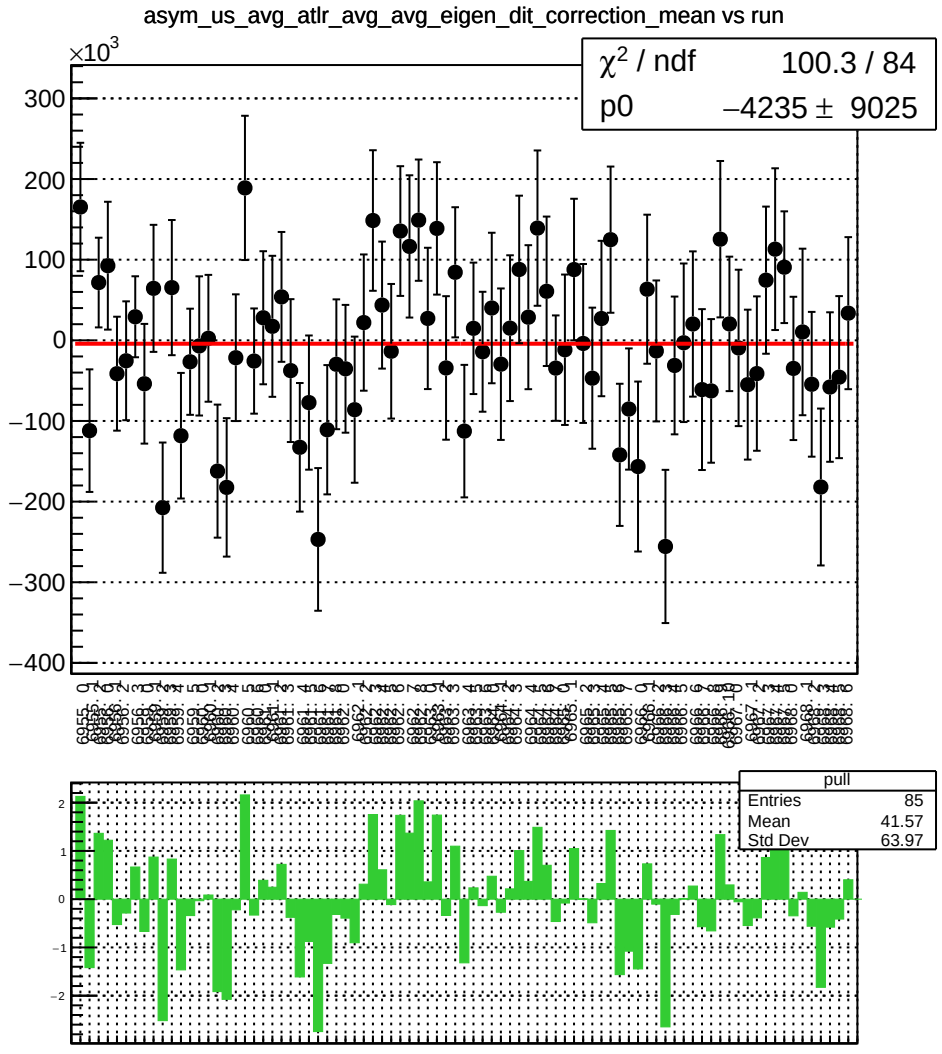

pull1D
Entries 85
Mean −0.01221
Std Dev 1.086

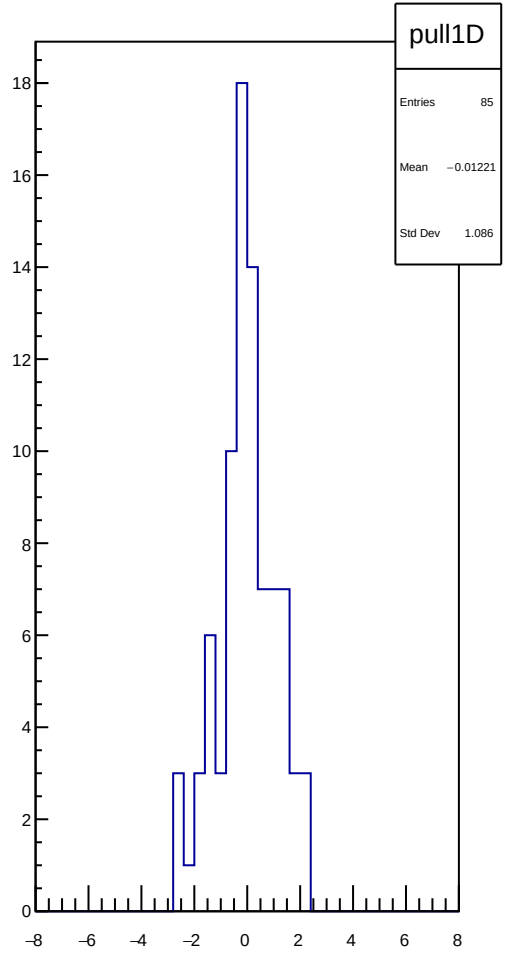

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
$\chi^2$ / ndf 1.363e+04 / 84
p0 8145 ± 6.381
10000
9500
9000
8500
8000
7500
7000
6500

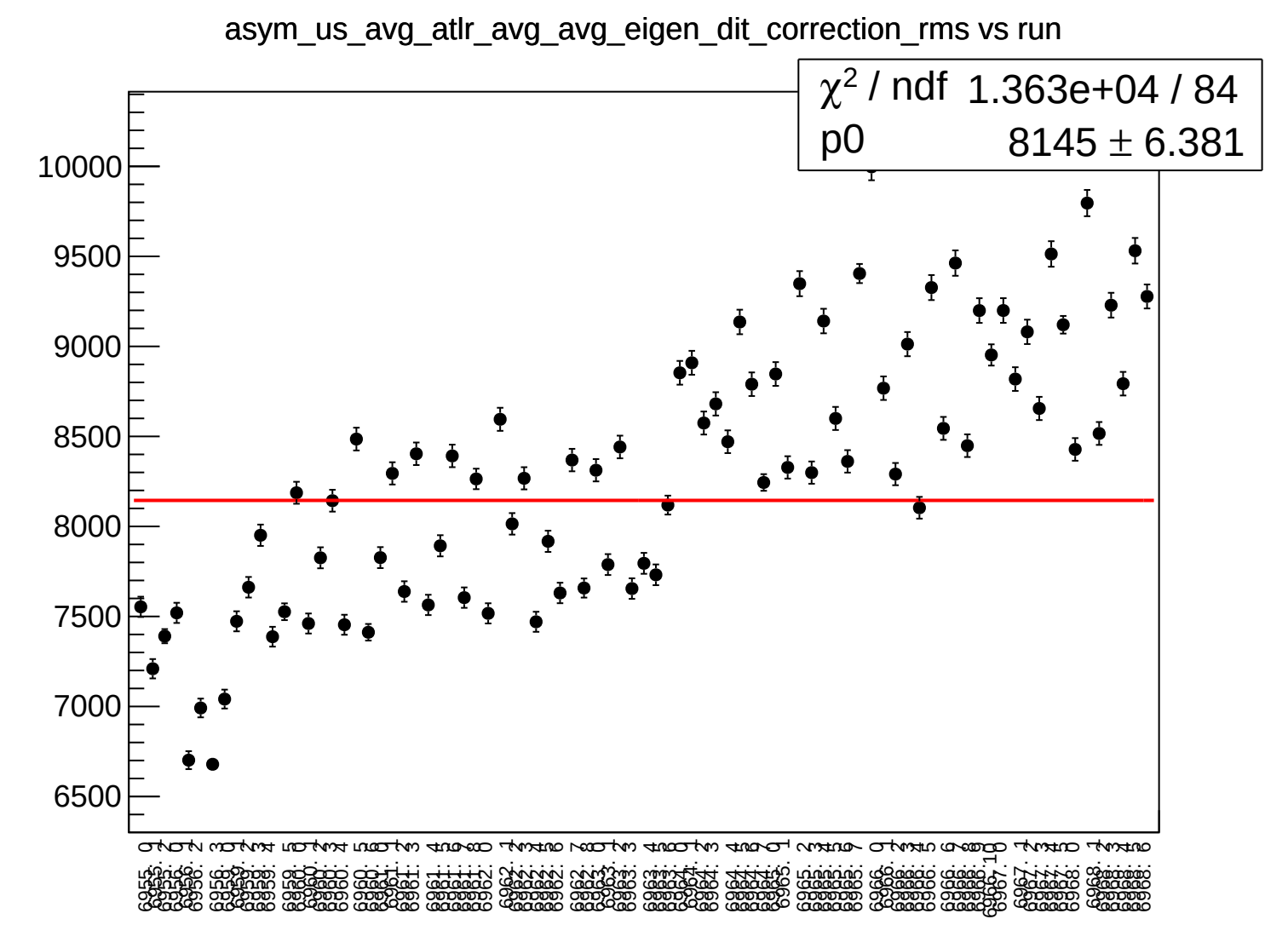

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 81.8 / 84
p0 −4187 ± 2056
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 2569
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

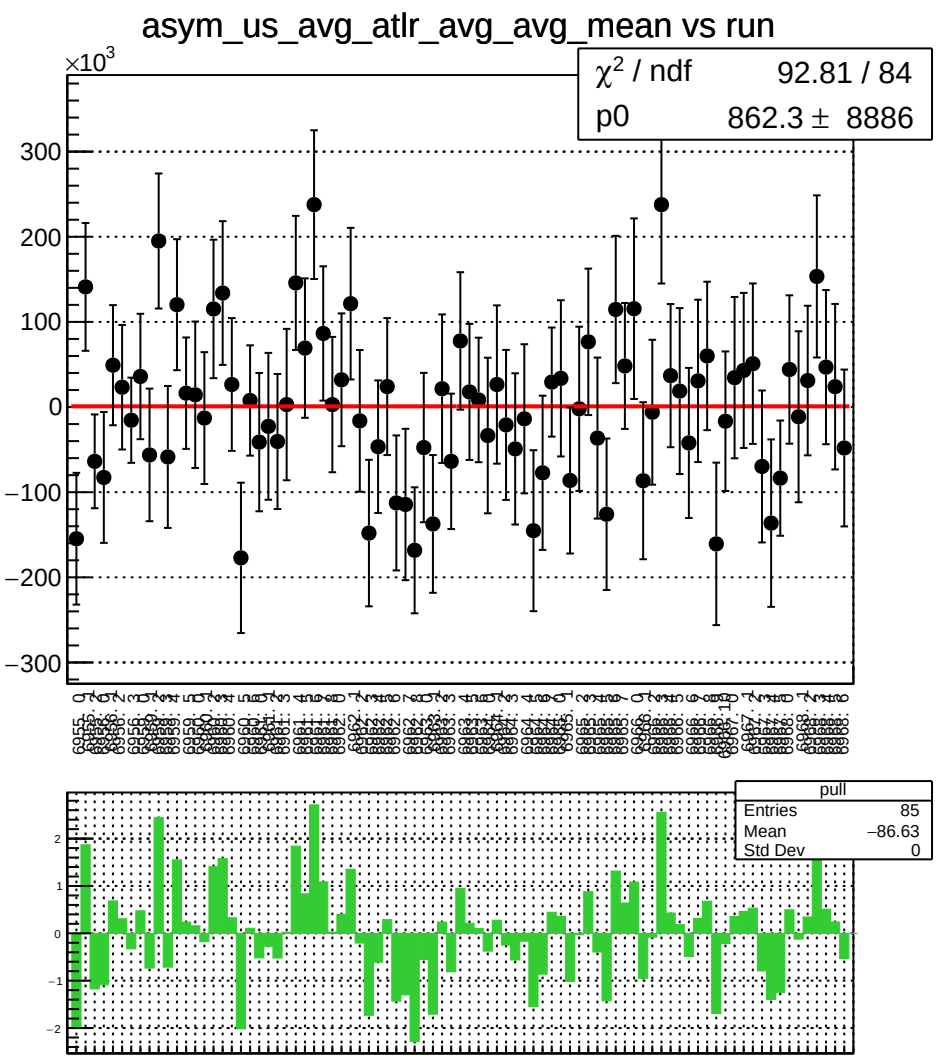

pull1D
Entries 85
Mean −0.001574
Std Dev 0.981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

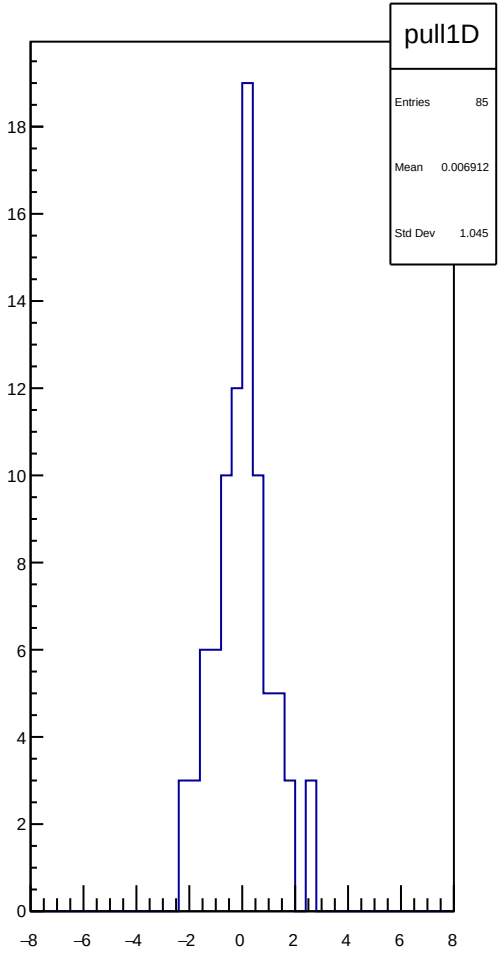

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 156.8 / 84
p0 1863 ± 1.454
1940
1920
1900
1880
1860
1840
1820
1800

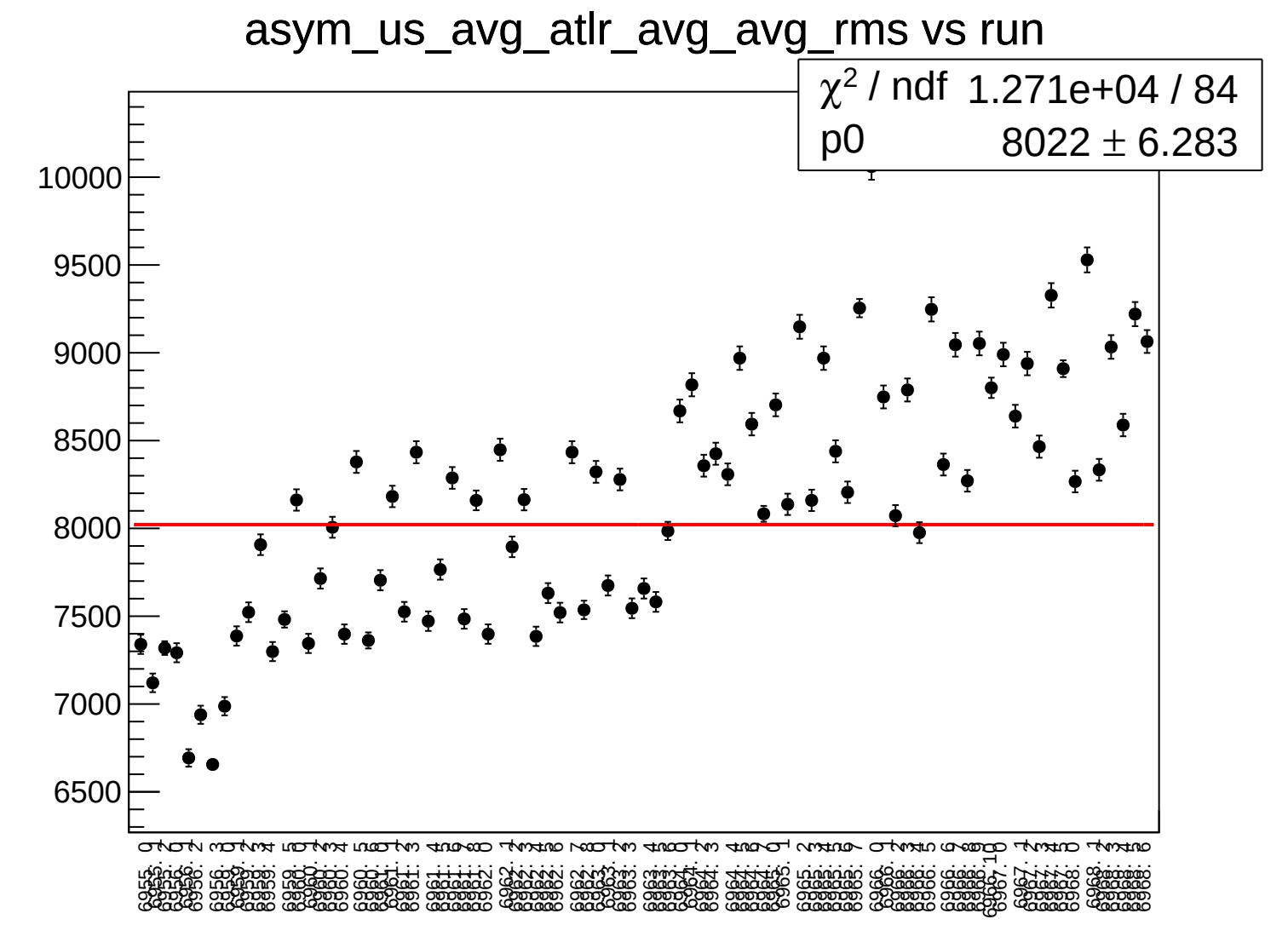

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.3 / 84
p0 −4235 ± 9025
300
200
100
0
−100
−200
−300
−400
pull
Entries 85
Mean 41.57
Std Dev 63.97
2
1
0
−1
−2

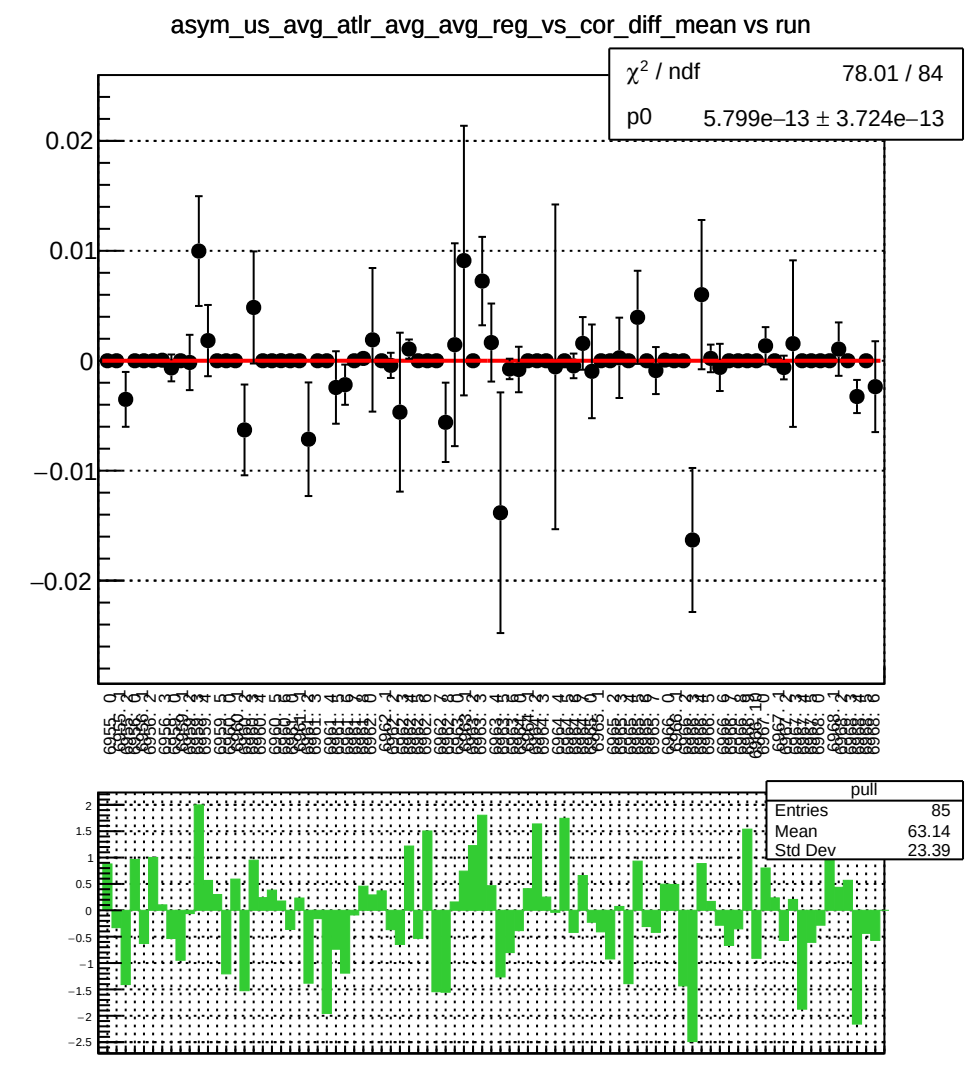

pull1D
Entries 85
Mean −0.01221
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

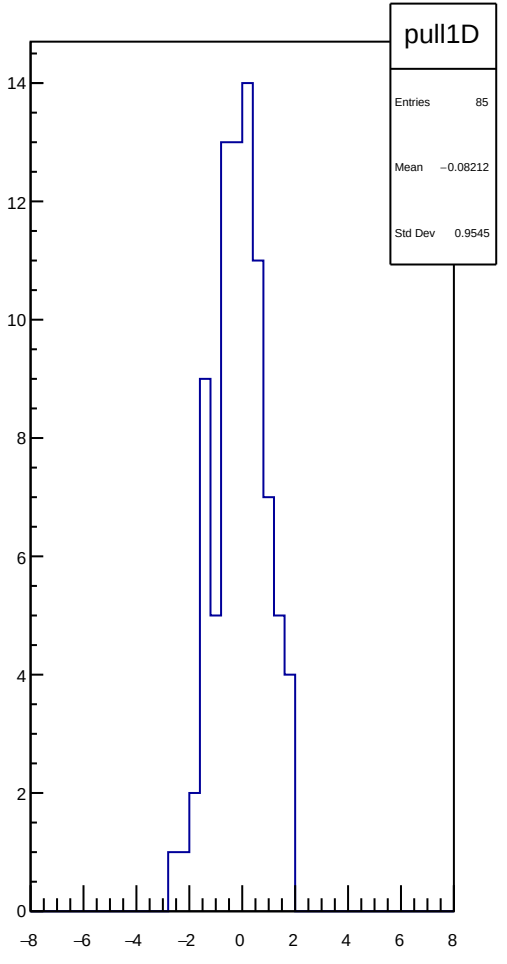

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 1.363e+04 / 84
p0 8145 ± 6.381
10000
9500
9000
8500
8000
7500
7000
6500

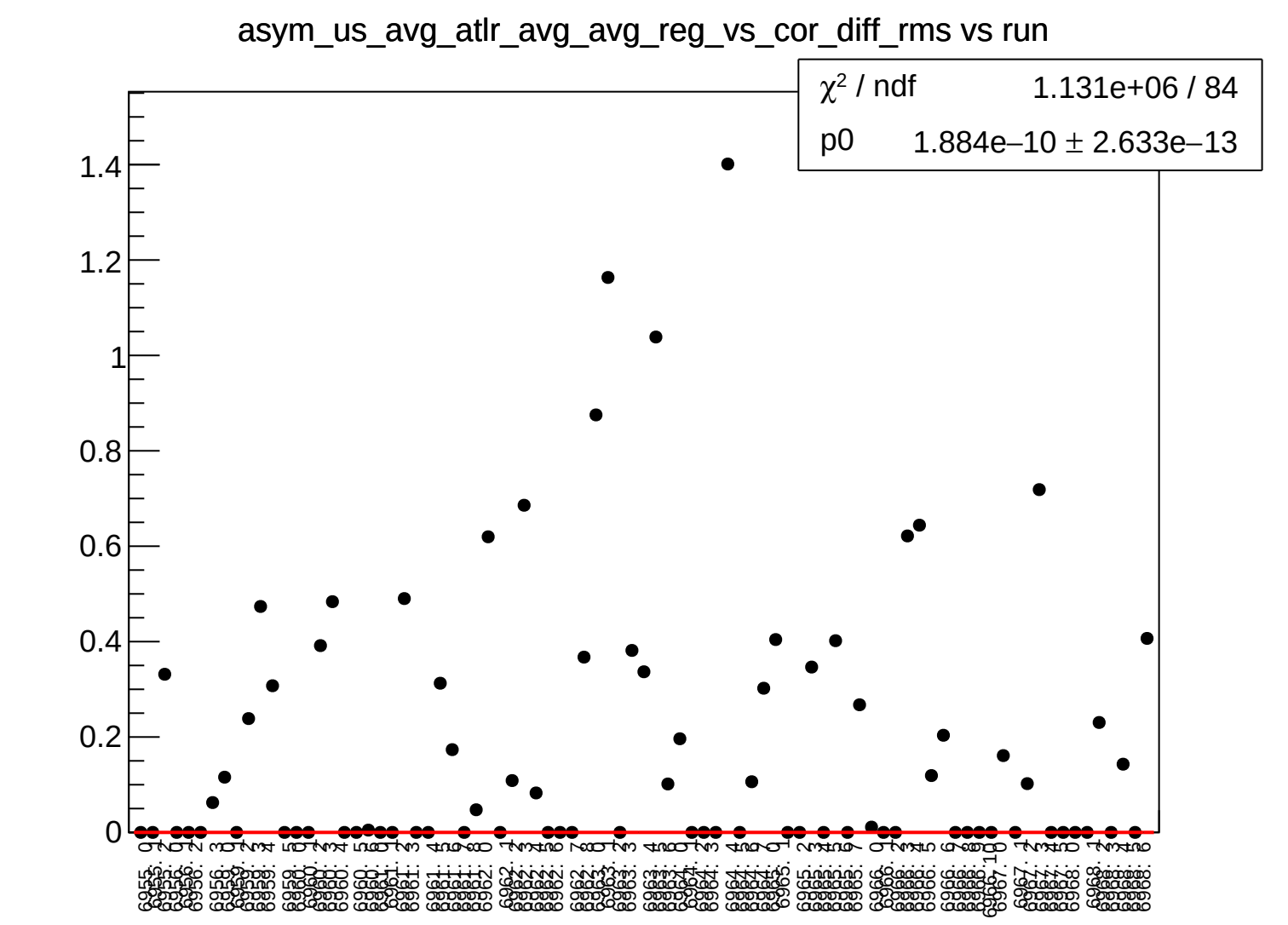

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 92.81 / 84
p0 862.3 ± 8886
300
200
100
0
−100
−200
−300
pull
Entries 85
Mean −86.63
Std Dev 0
2
1
0
−1
−2

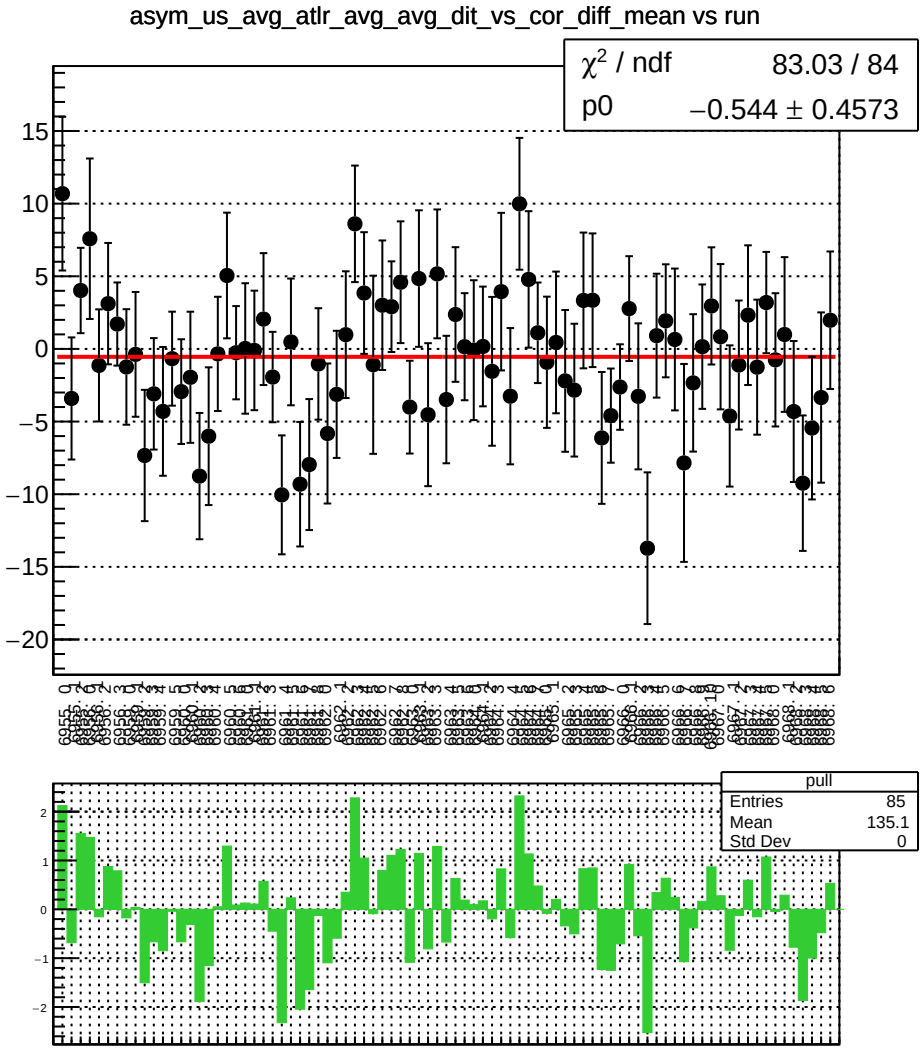

pull1D
Entries 85
Mean 0.006912
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

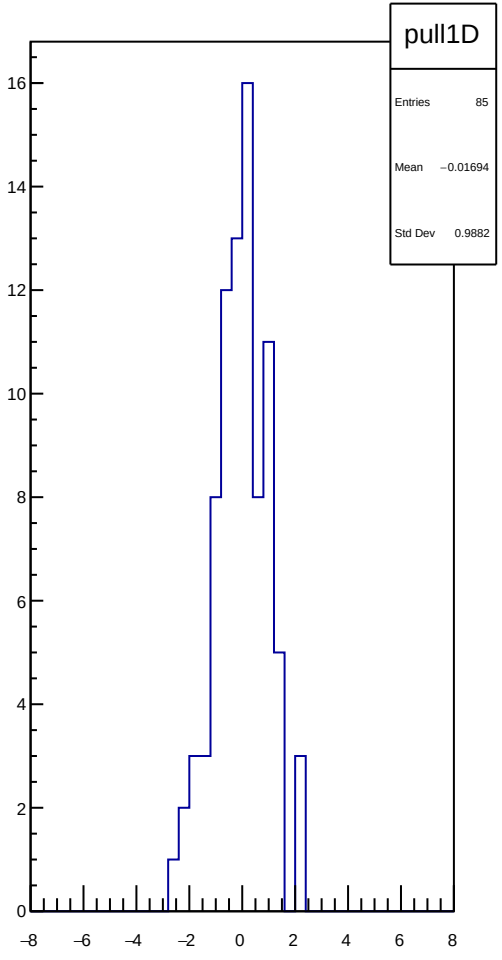

asym_us_avg_atlr_avg_avg_rms vs run
$\chi^2$ / ndf 1.271e+04 / 84
p0 8022 ± 6.283
10000
9500
9000
8500
8000
7500
7000
6500

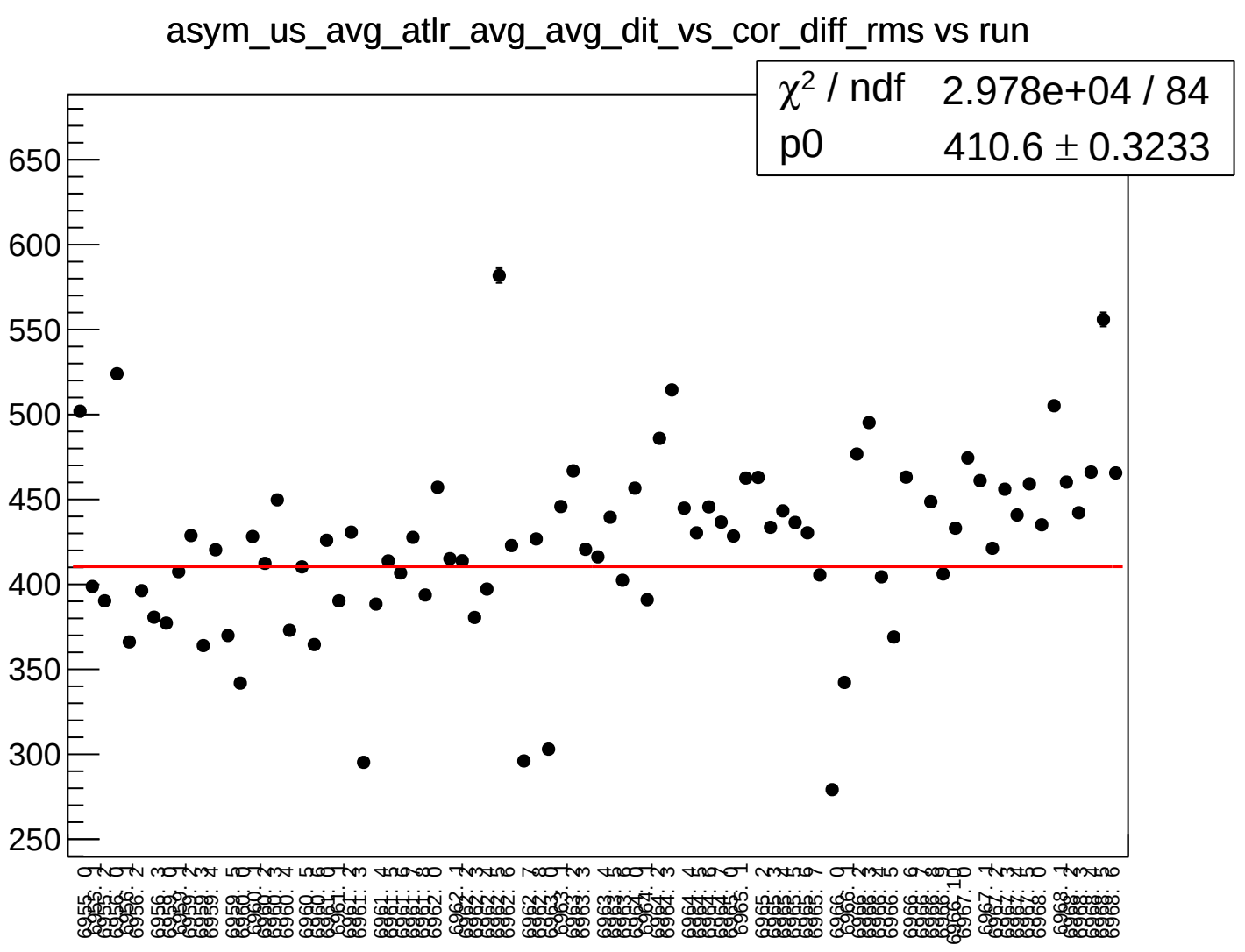

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.01 / 84
p0 5.799e−13 ± 3.724e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean 63.14
Std Dev 23.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

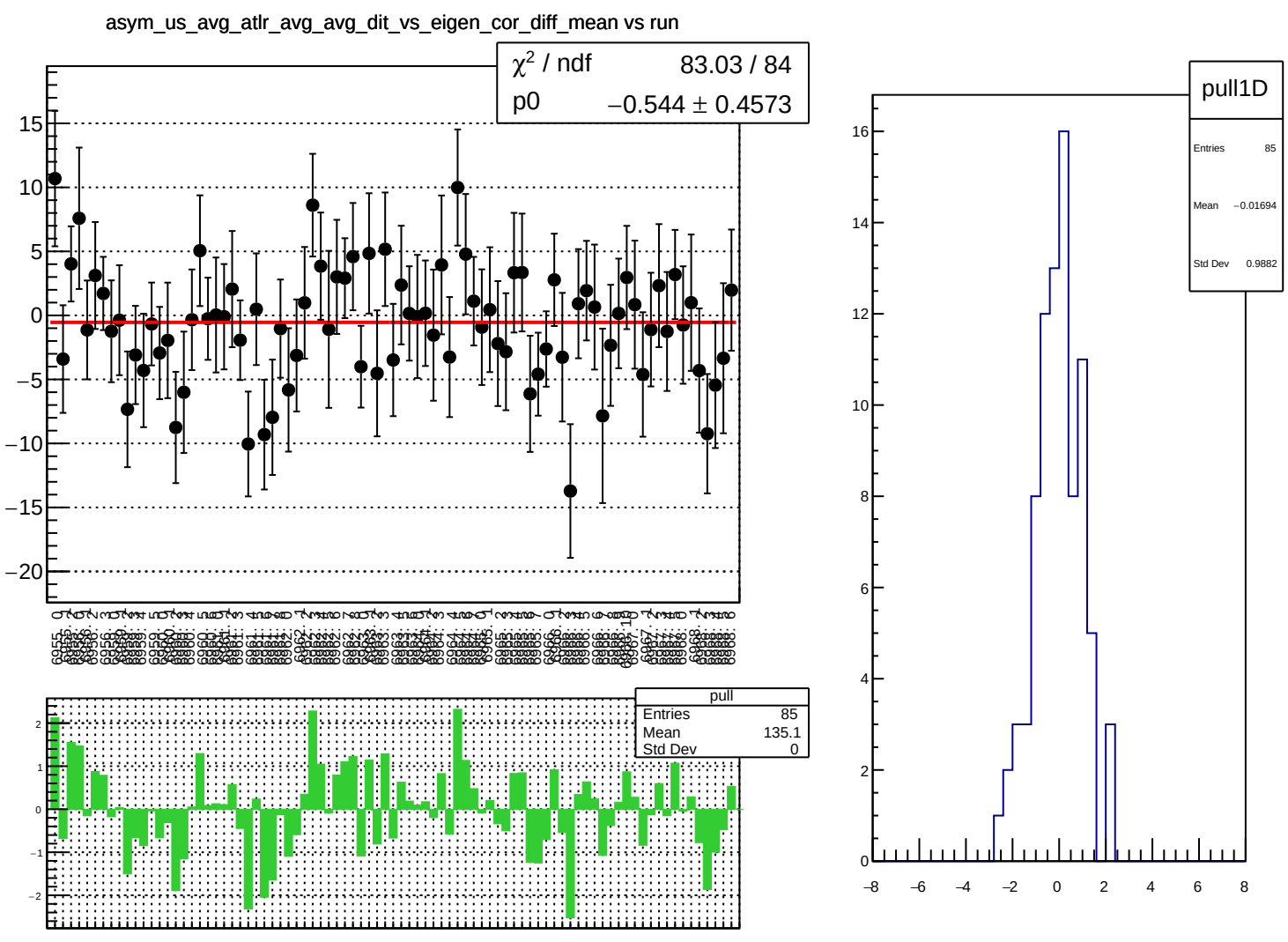

pull1D
Entries 85
Mean −0.08212
Std Dev 0.9545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

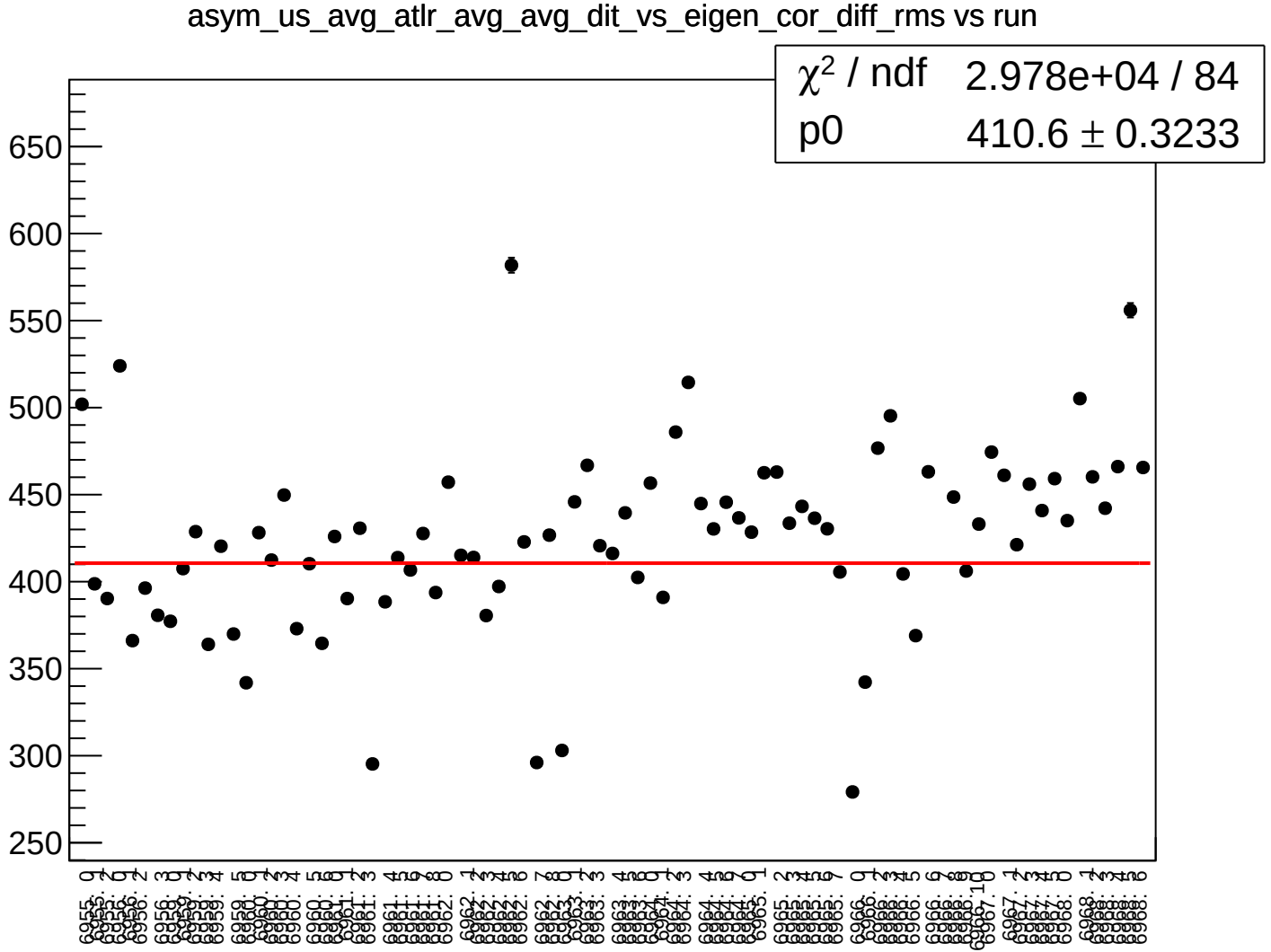

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.131e+06 / 84
p0 1.884e−10 ± 2.633e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

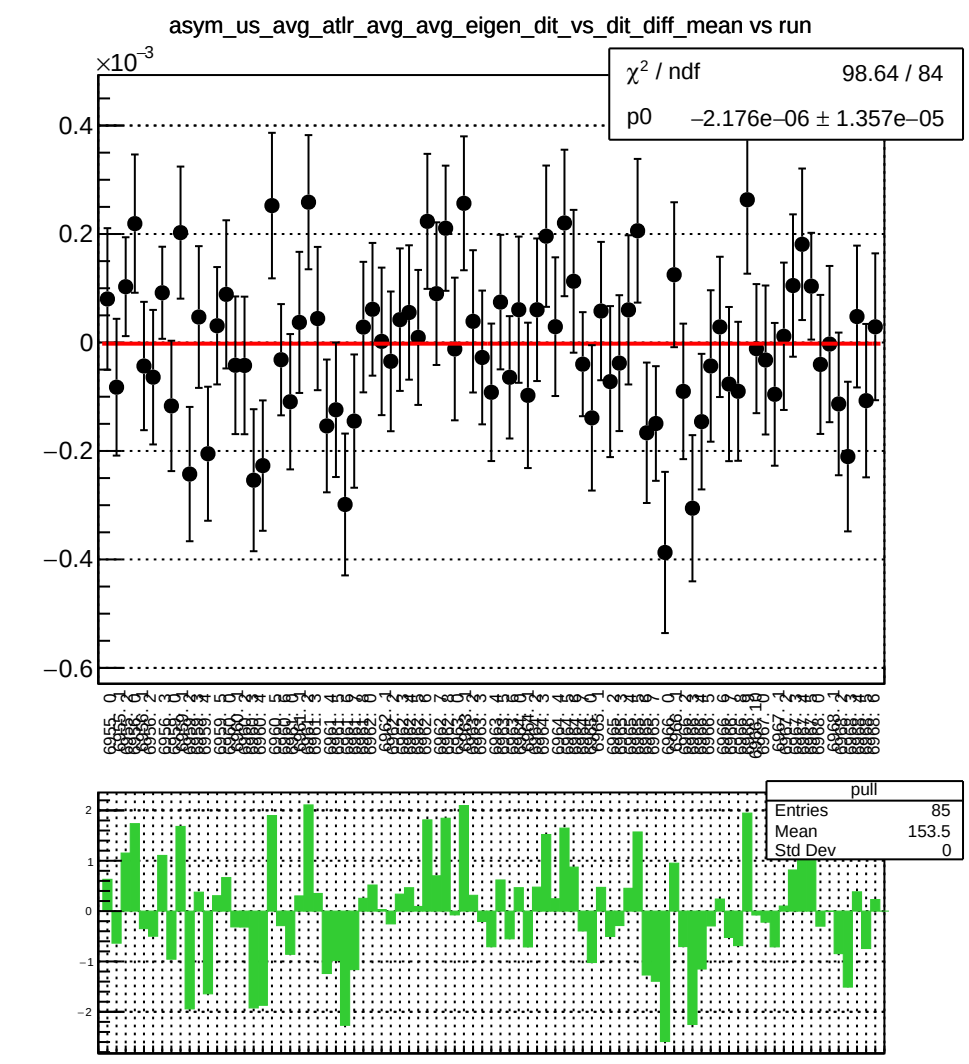

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.03 / 84
p0 −0.544 ± 0.4573
pull
Entries 85
Mean 135.1
Std Dev 0

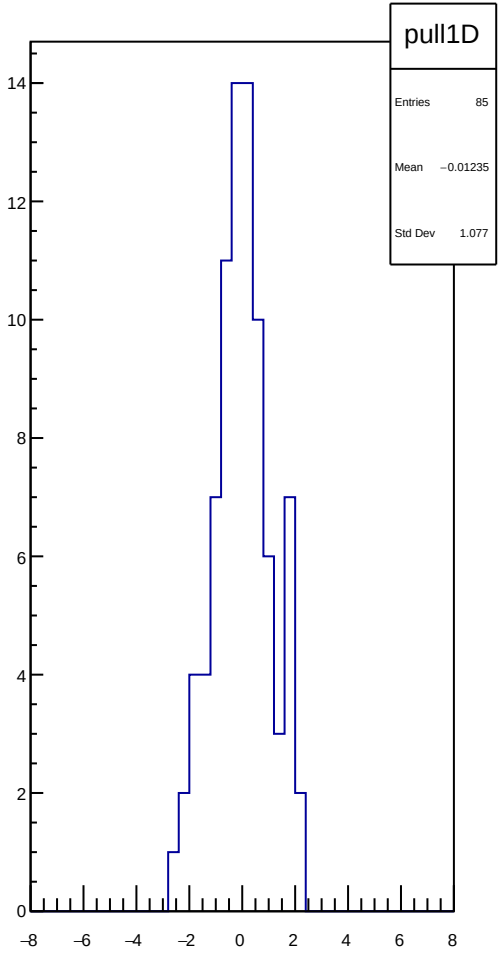

pull1D
Entries 85
Mean −0.01694
Std Dev 0.9882

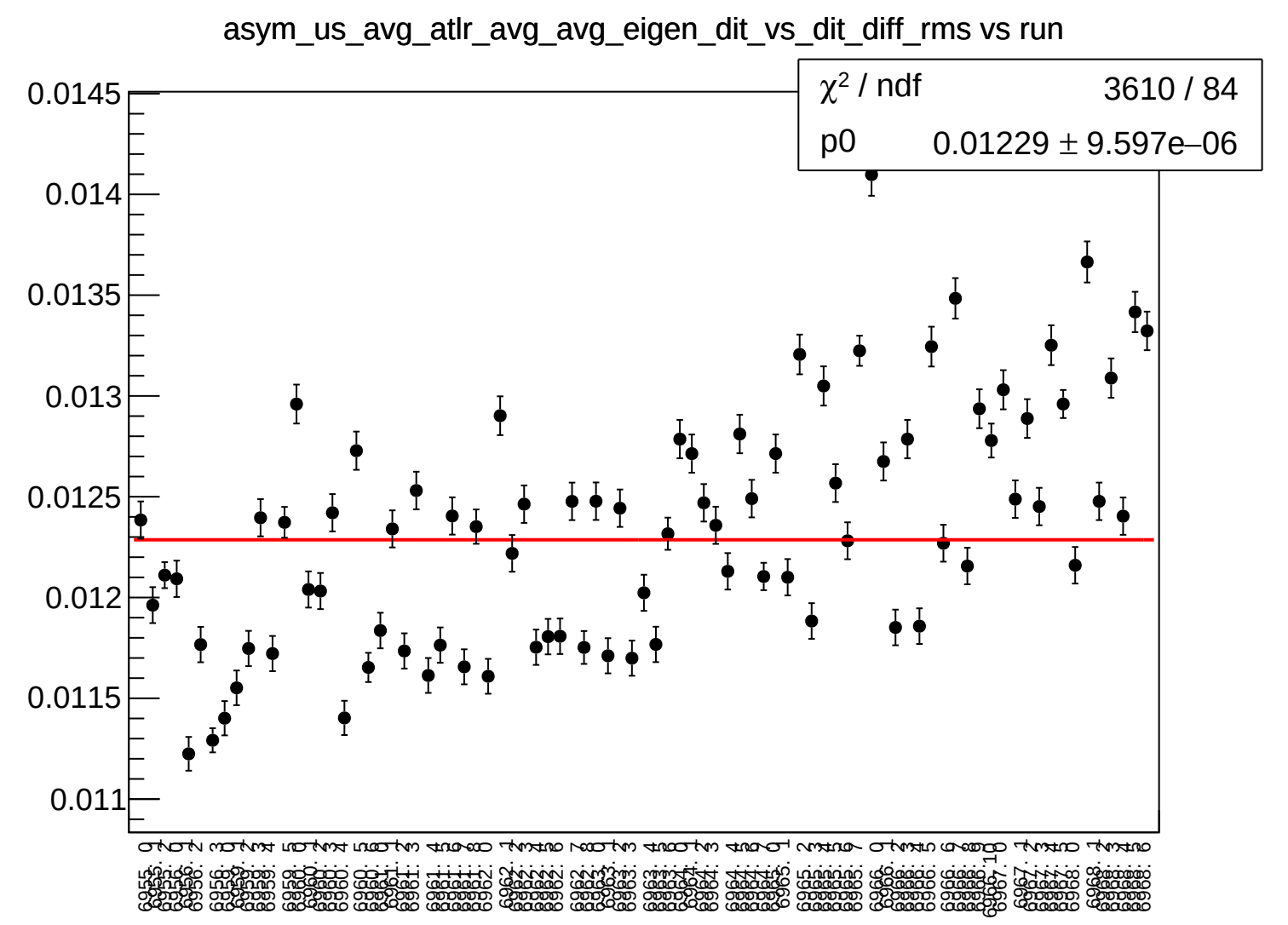

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.978e+04 / 84
p0 410.6 ± 0.3233
650
600
550
500
450
400
350
300
250

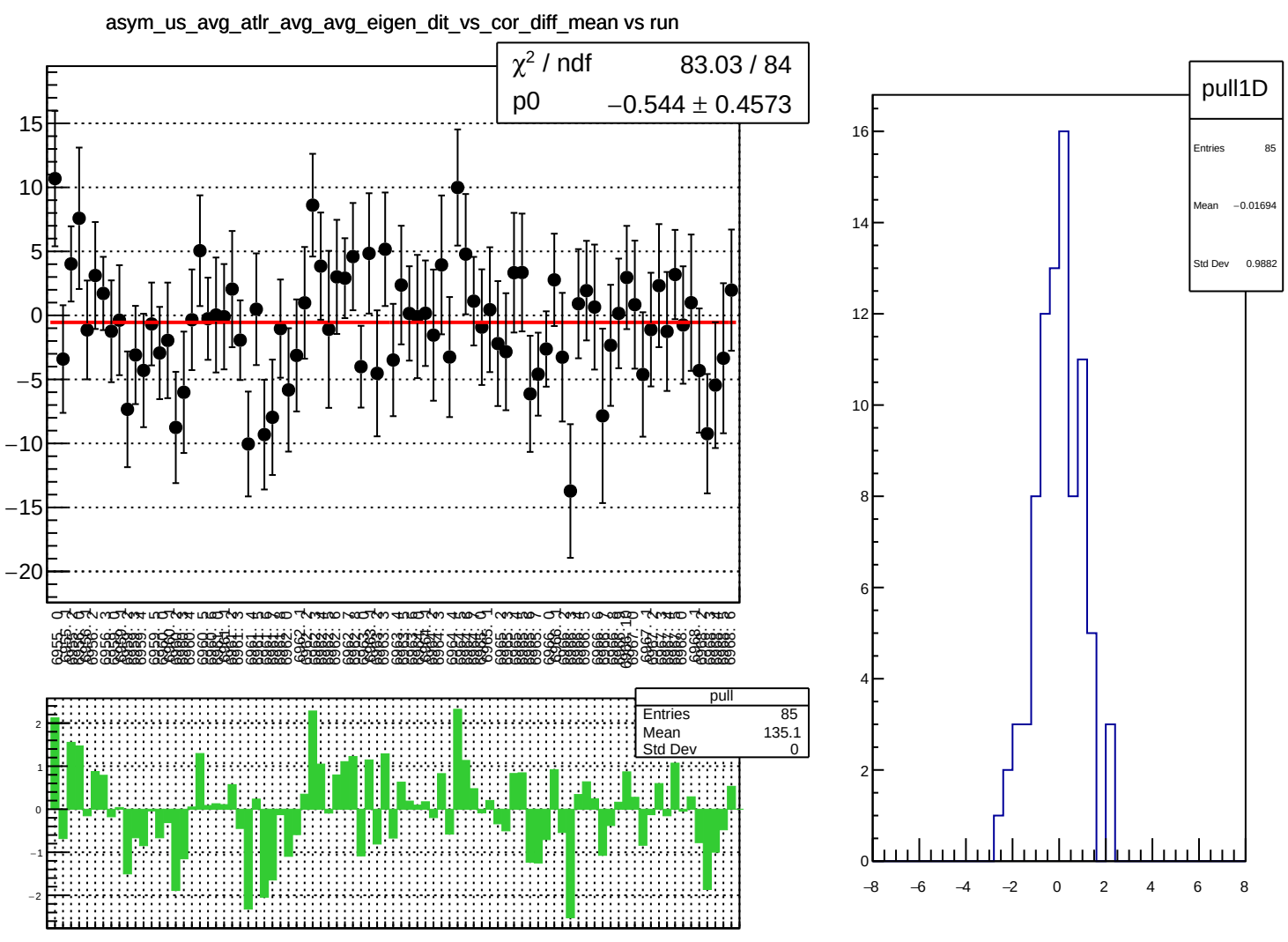

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.03 / 84
p0 −0.544 ± 0.4573
pull
Entries 85
Mean 135.1
Std Dev 0
pull1D
Entries 85
Mean −0.01694
Std Dev 0.9882

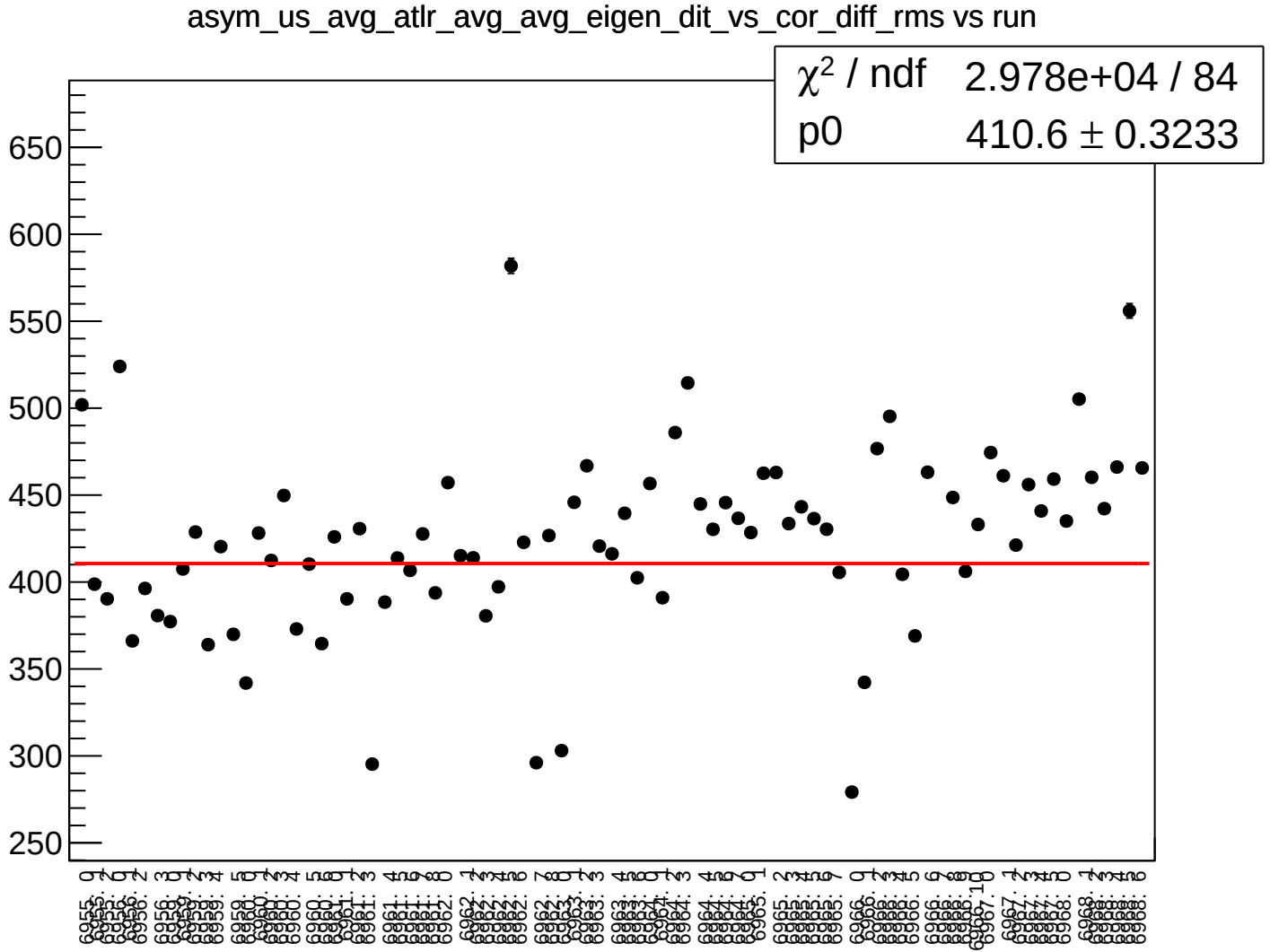

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.978e+04 / 84
p0 410.6 ± 0.3233
650
600
550
500
450
400
350
300
250

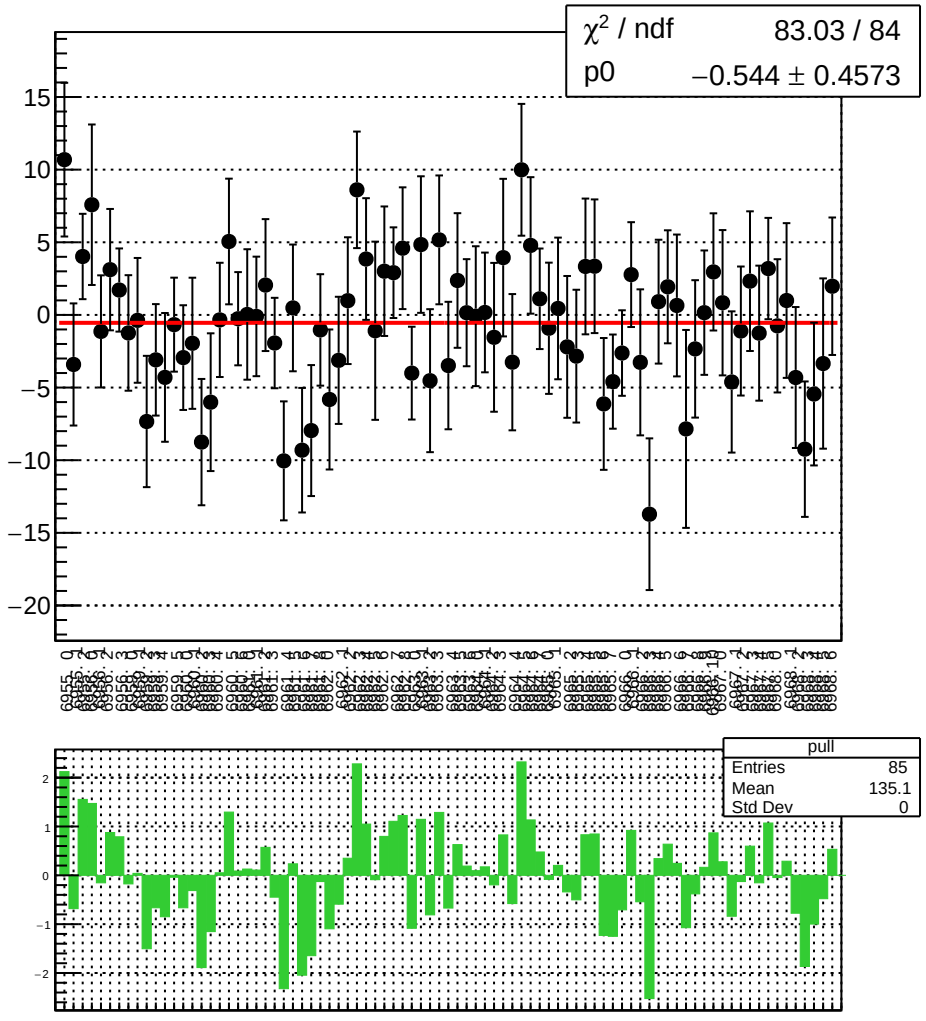

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.64 / 84
p0 −2.176e−06 ± 1.357e−05
pull
Entries 85
Mean 153.5
Std Dev 0

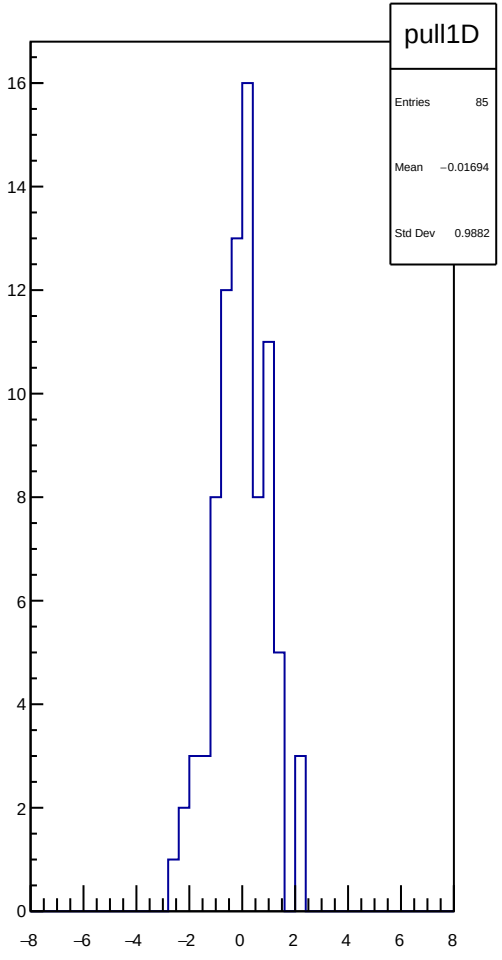

pull1D
Entries 85
Mean −0.01235
Std Dev 1.077

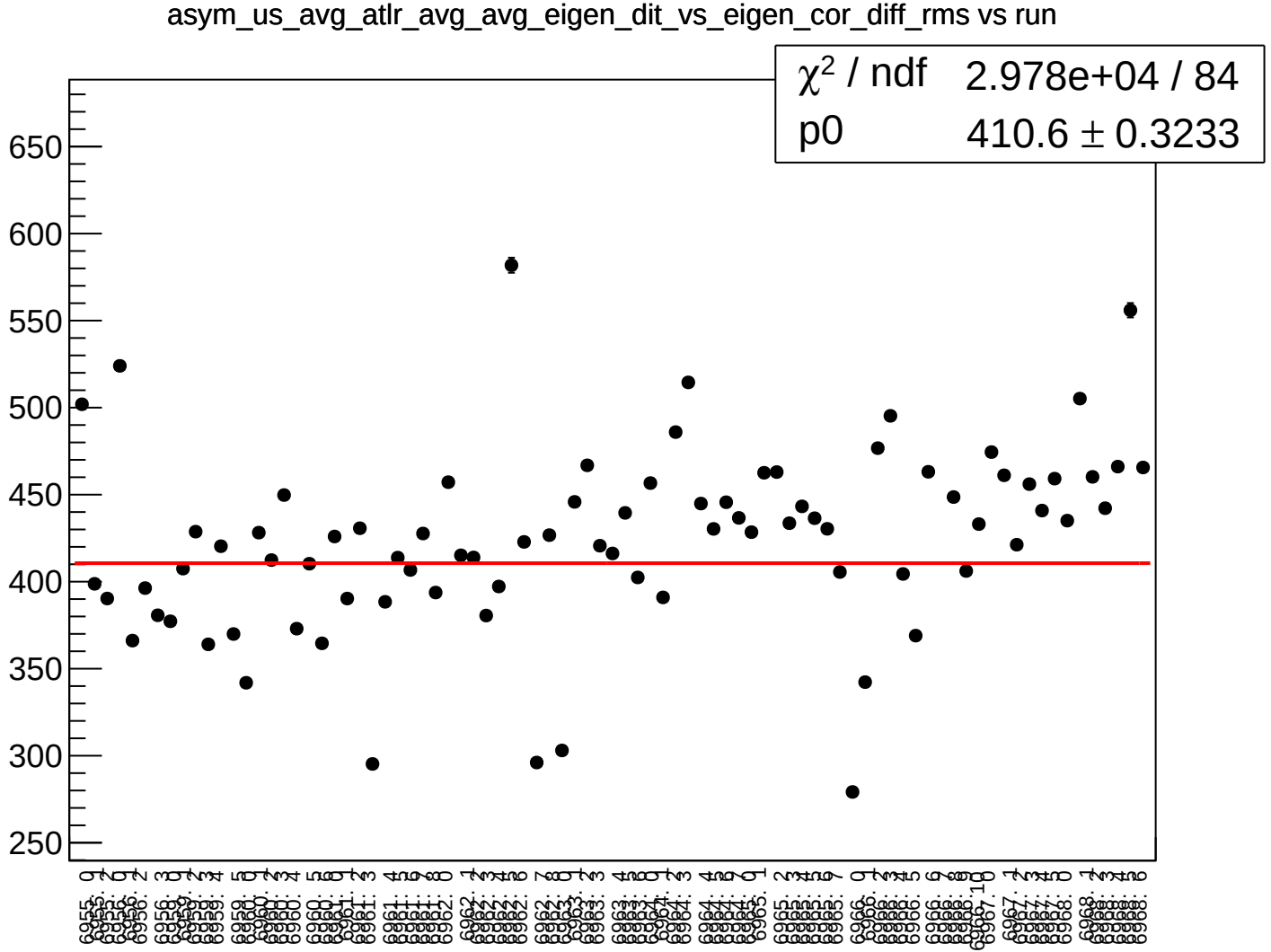

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3610 / 84
p0 0.01229 ± 9.597e−06
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011

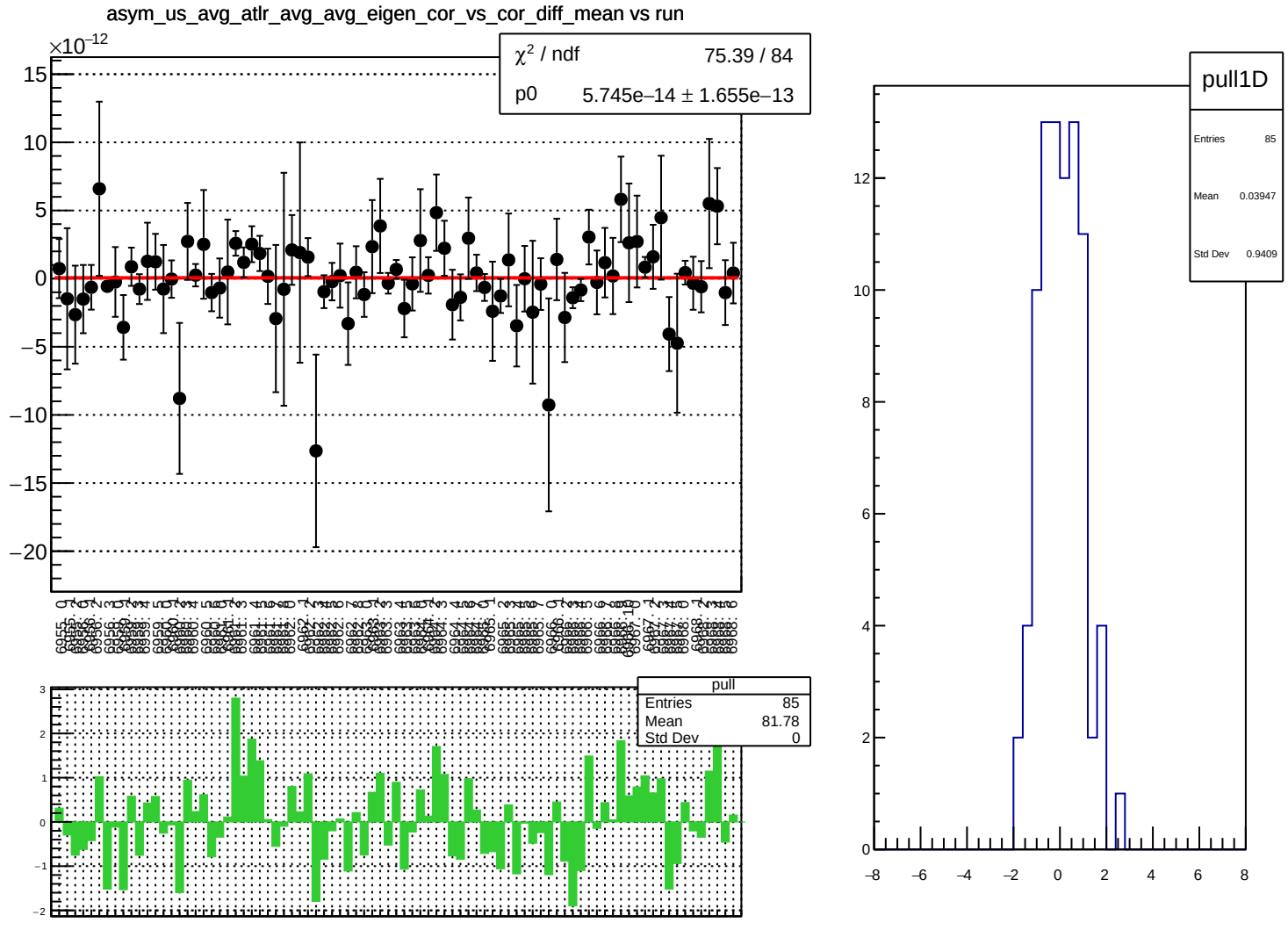

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.03 / 84
p0 −0.544 ± 0.4573
pull
Entries 85
Mean 135.1
Std Dev 0
pull1D
Entries 85
Mean −0.01694
Std Dev 0.9882

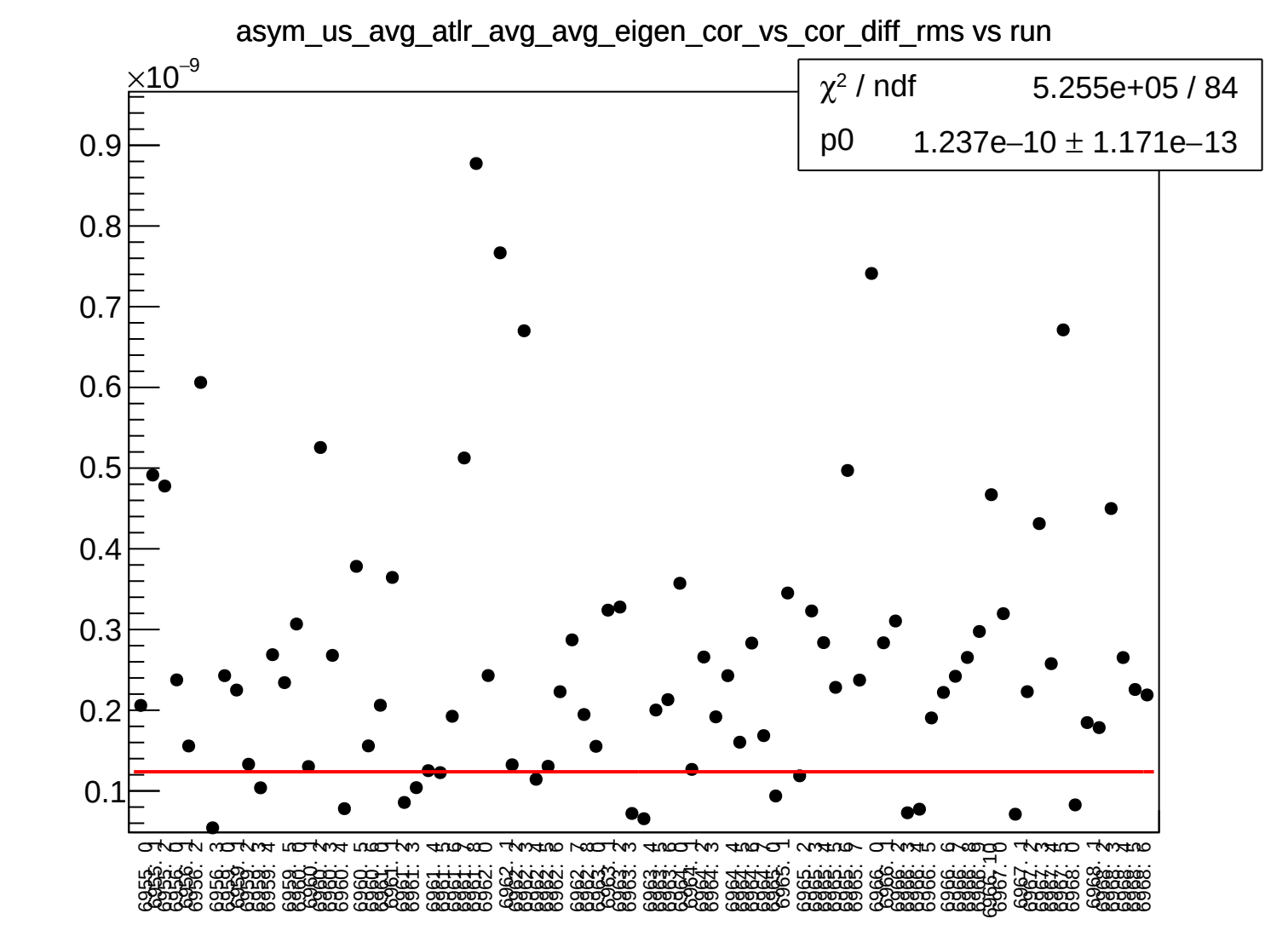

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.978e+04 / 84
p0 410.6 ± 0.3233
650
600
550
500
450
400
350
300
250

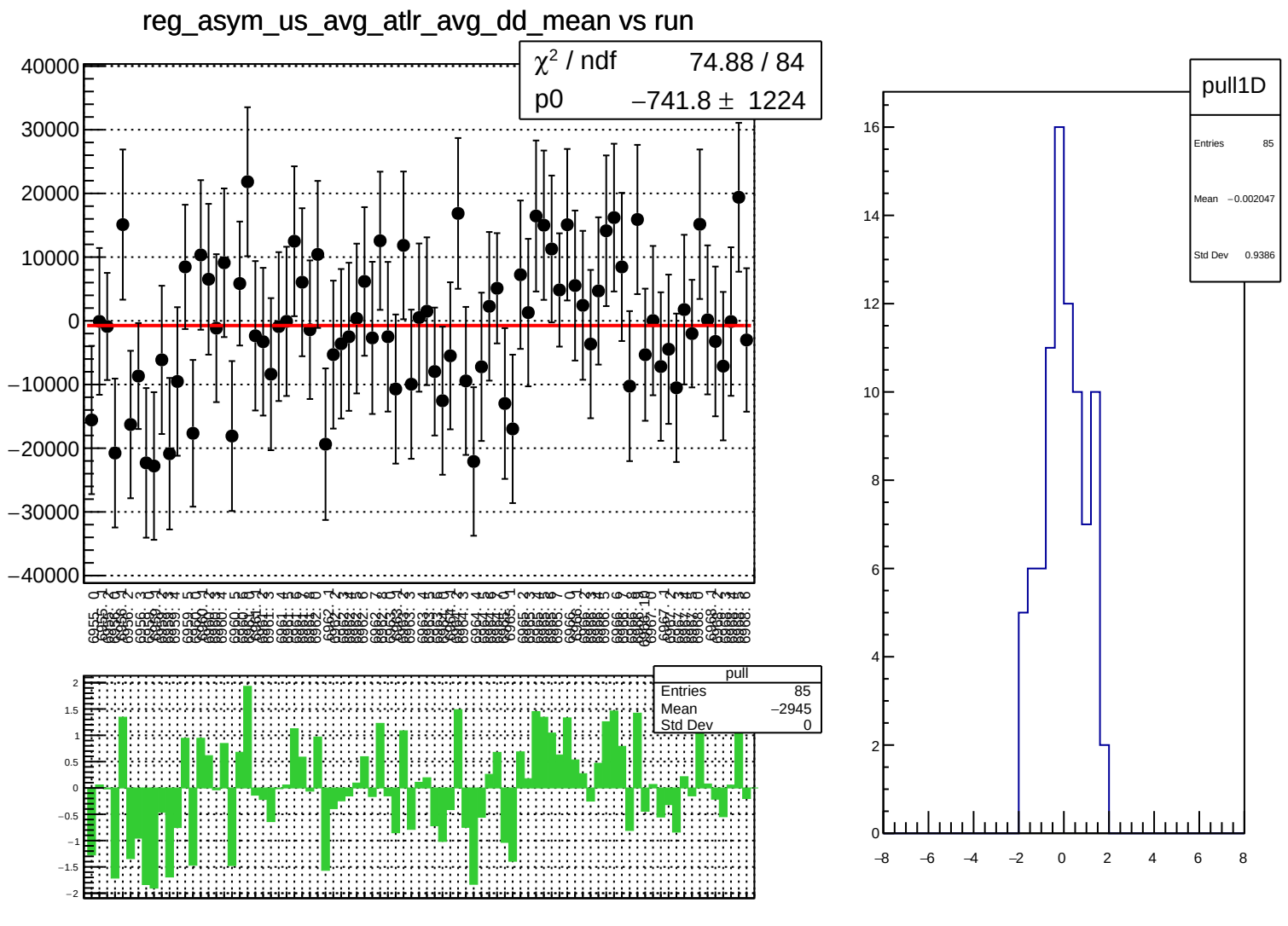

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.03 / 84
p0 −0.544 ± 0.4573
pull
Entries 85
Mean 135.1
Std Dev 0

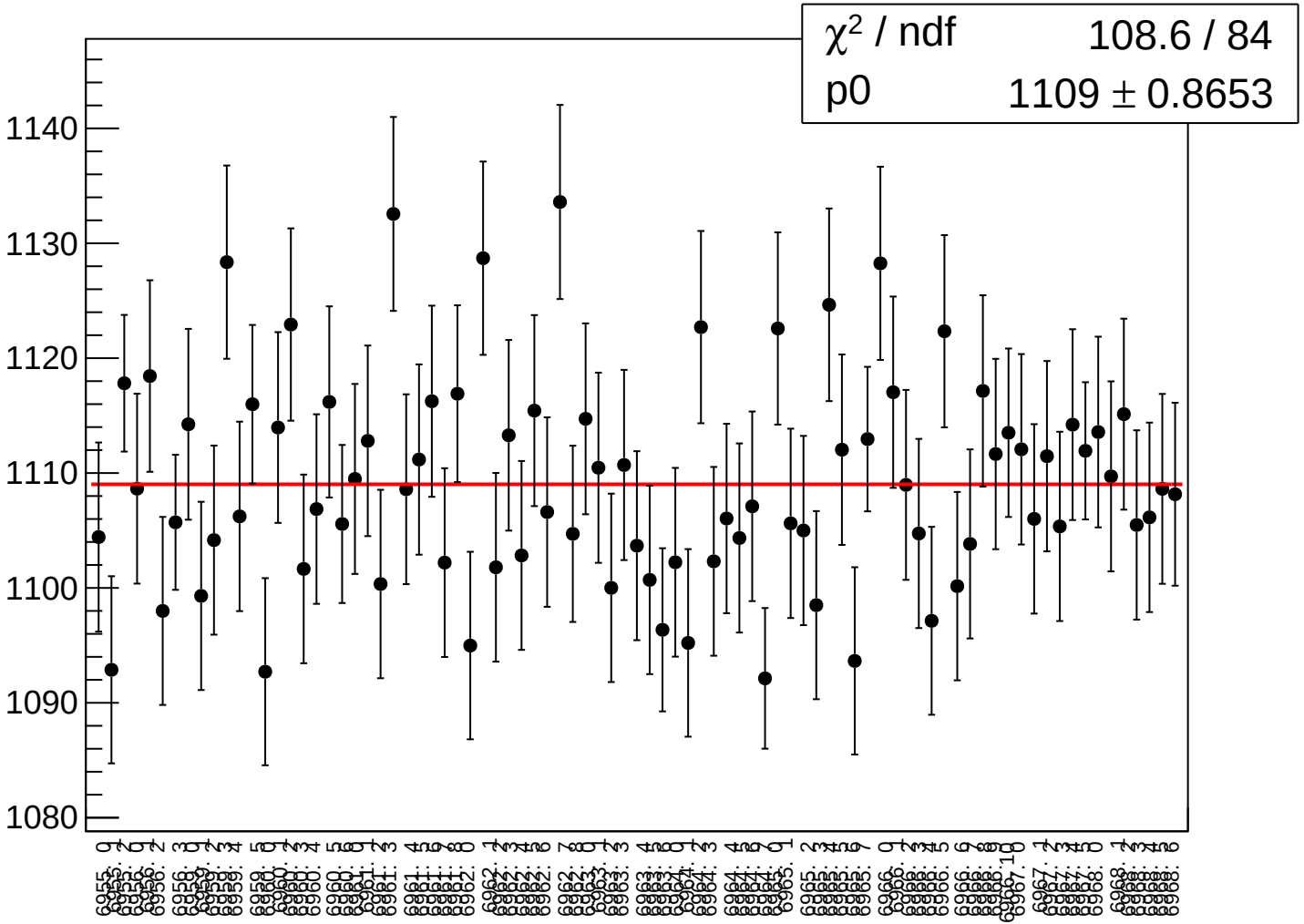

pull1D
Entries 85
Mean −0.01694
Std Dev 0.9882

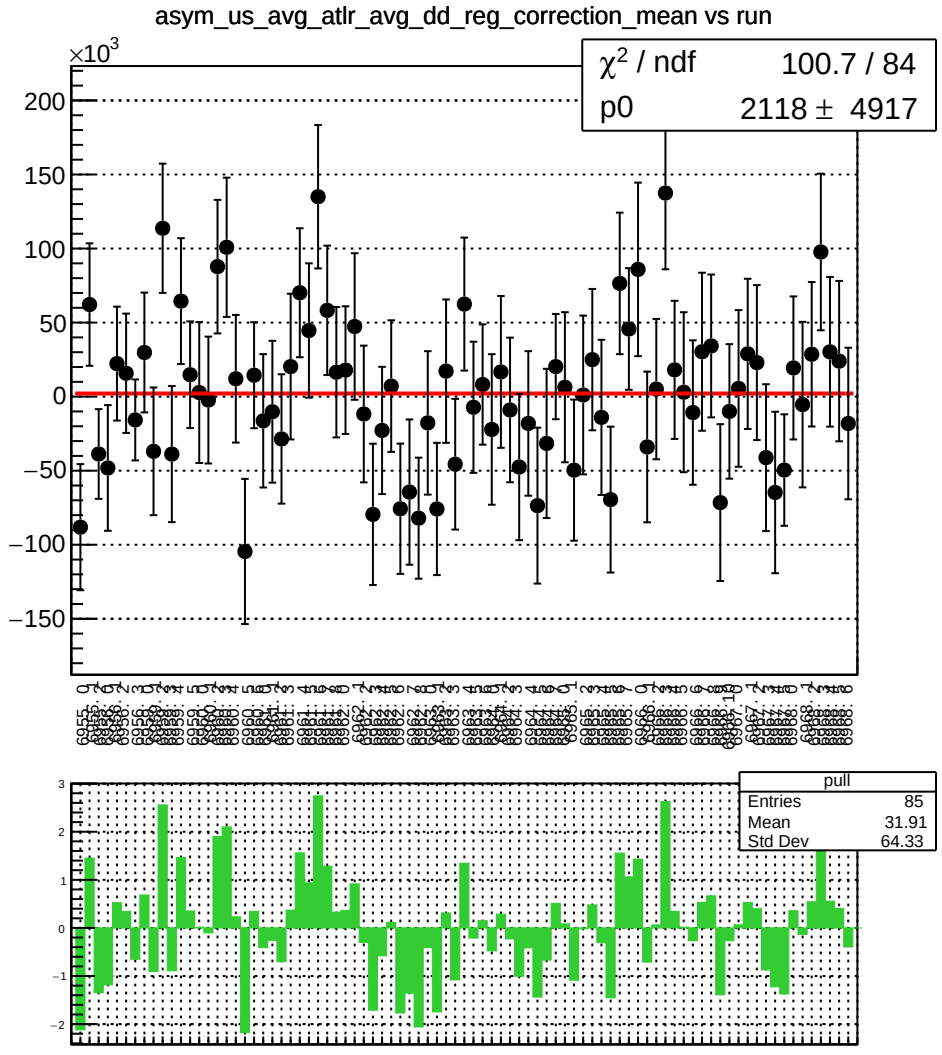

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.978e+04 / 84
p0 410.6 ± 0.3233
650
600
550
500
450
400
350
300
250

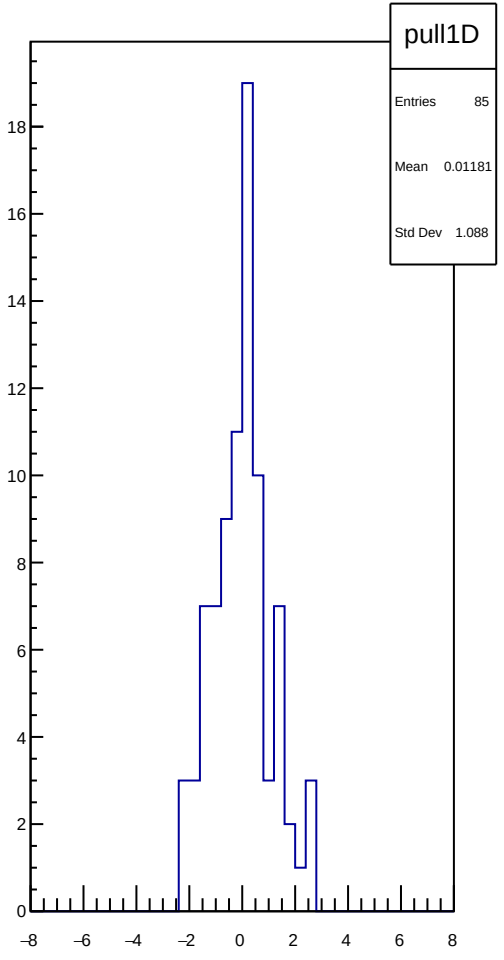

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.39 / 84
p0 5.745e−14 ± 1.655e−13
pull
Entries 85
Mean 81.78
Std Dev 0
pull1D
Entries 85
Mean 0.03947
Std Dev 0.9409

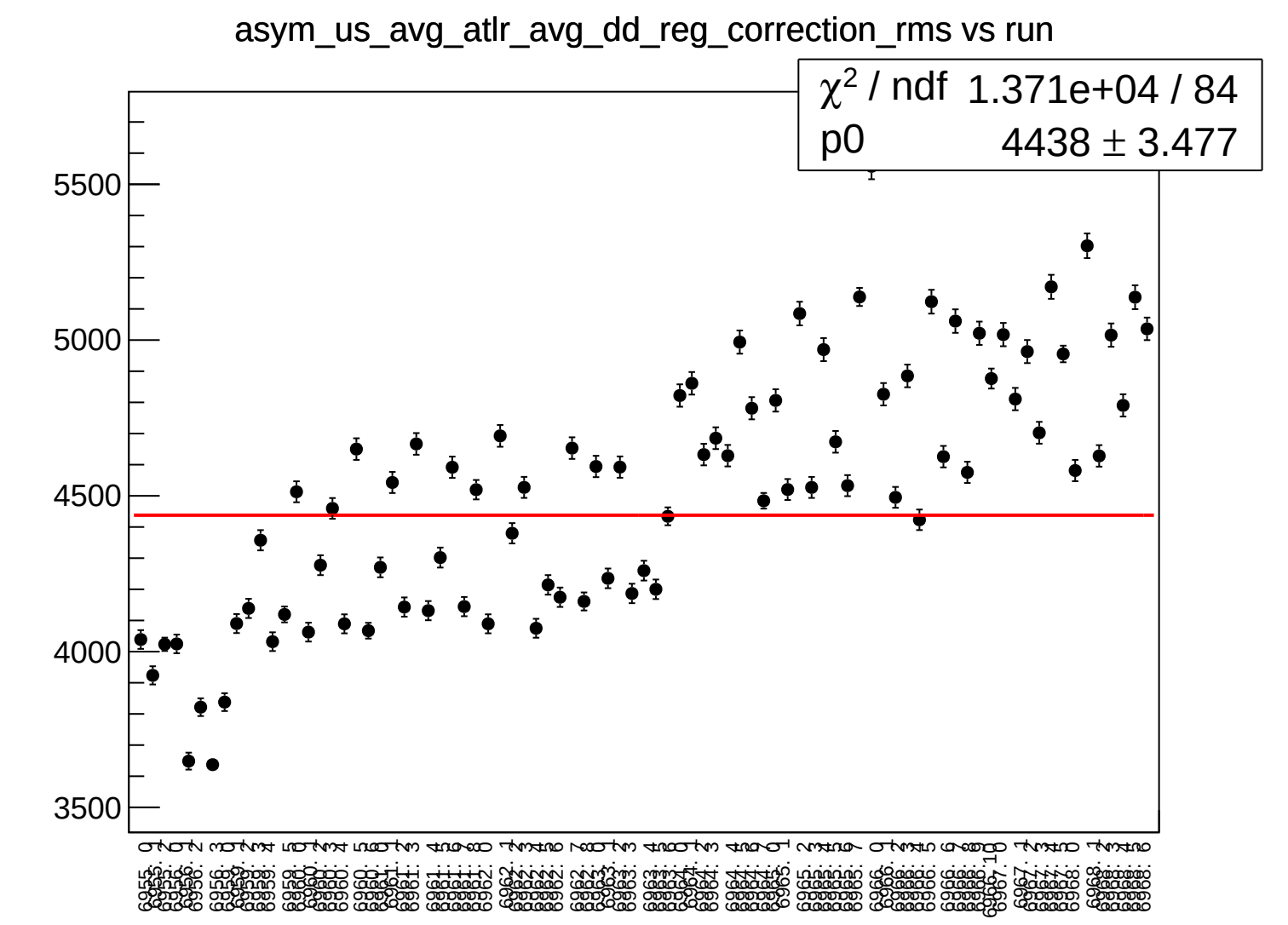

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.255e+05 / 84
p0 1.237e−10 ± 1.171e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

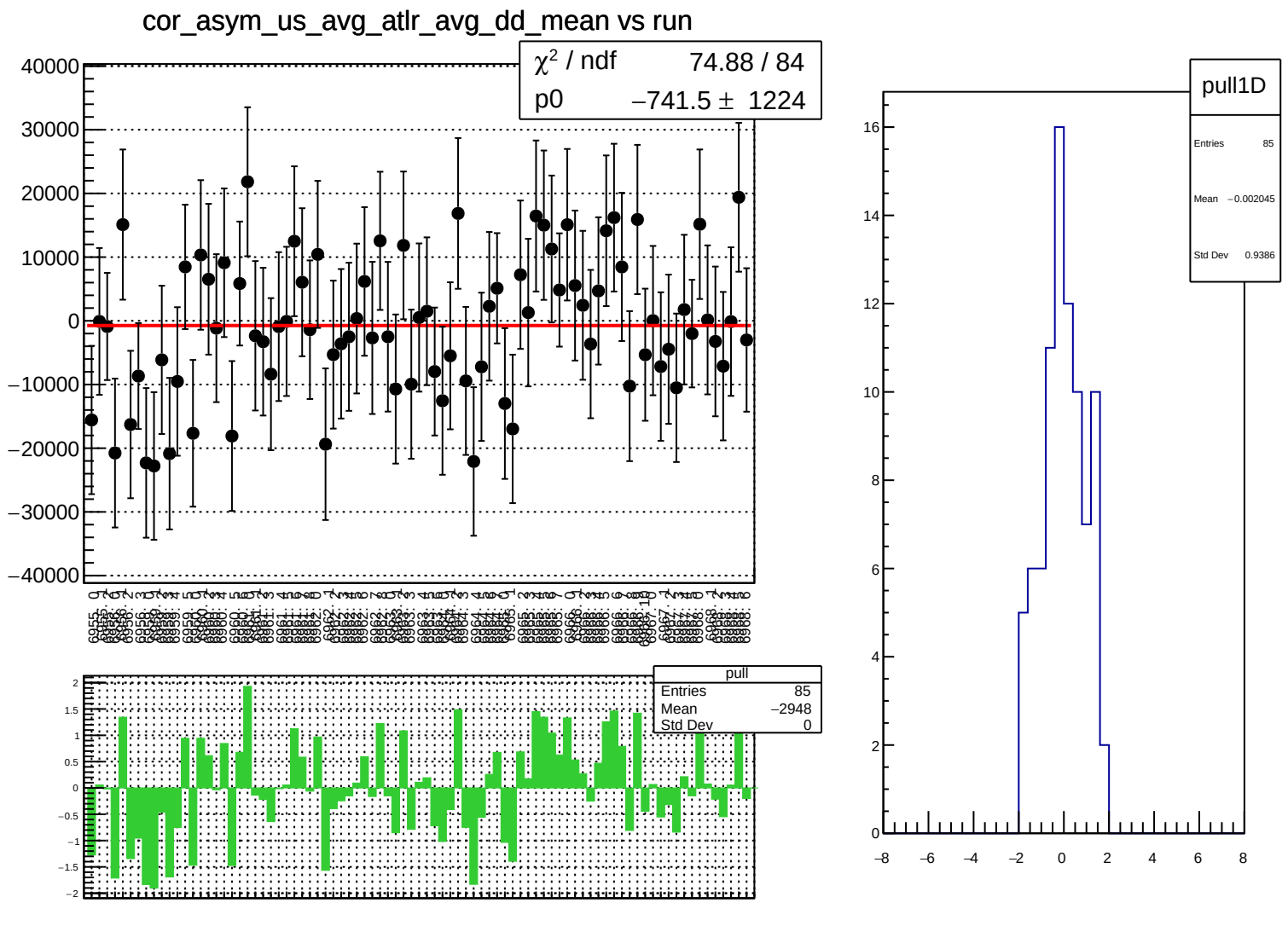

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 74.88 / 84
p0 −741.8 ± 1224
pull
Entries 85
Mean −2945
Std Dev 0
pull1D
Entries 85
Mean −0.002047
Std Dev 0.9386

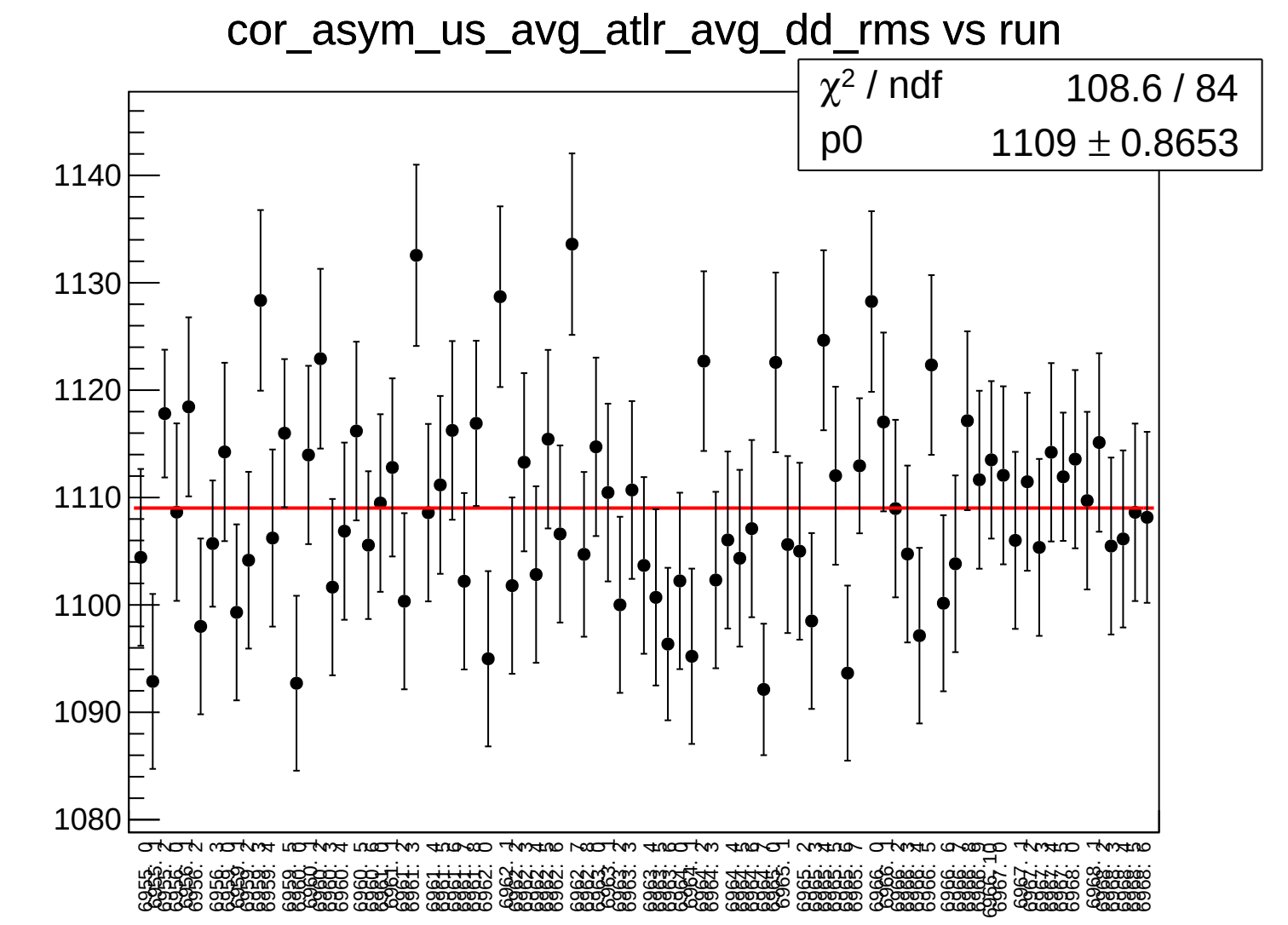

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 108.6 / 84
p0 1109 ± 0.8653
1140
1130
1120
1110
1100
1090
1080

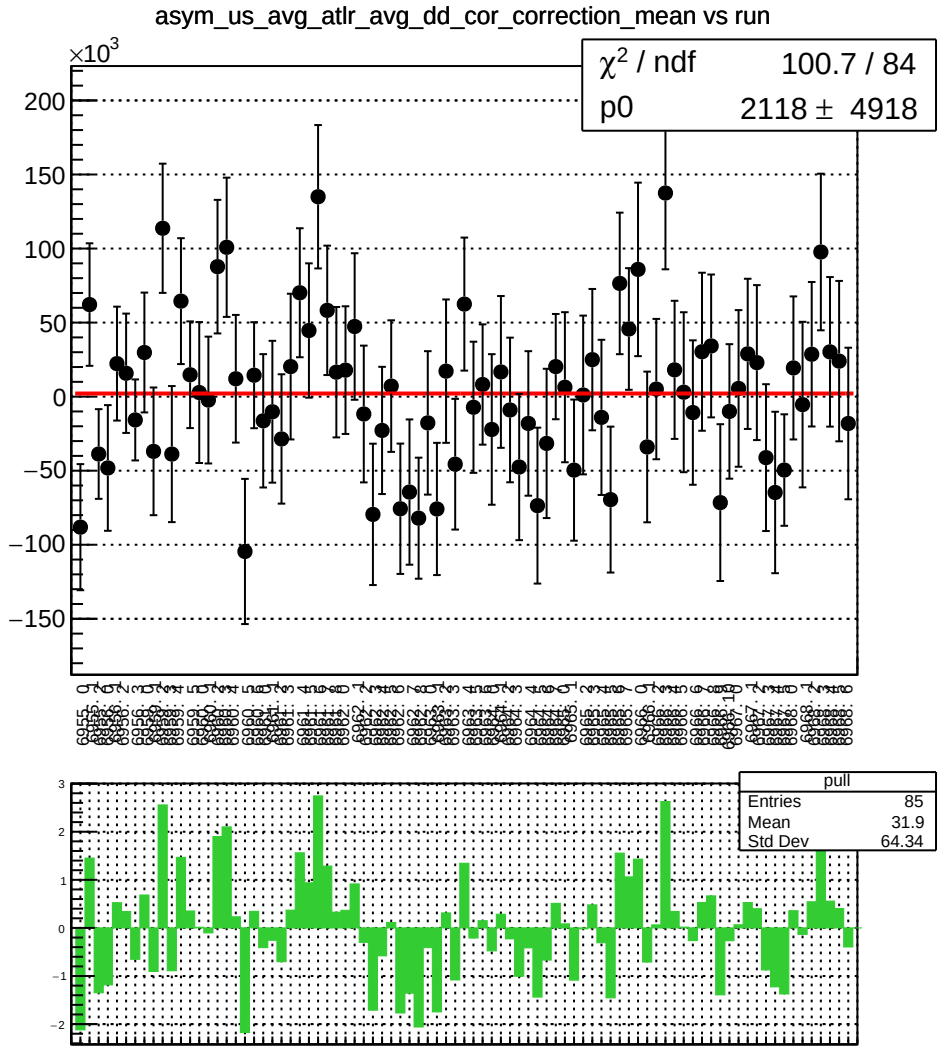

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.7 / 84
p0 2118 ± 4917
pull
Entries 85
Mean 31.91
Std Dev 64.33

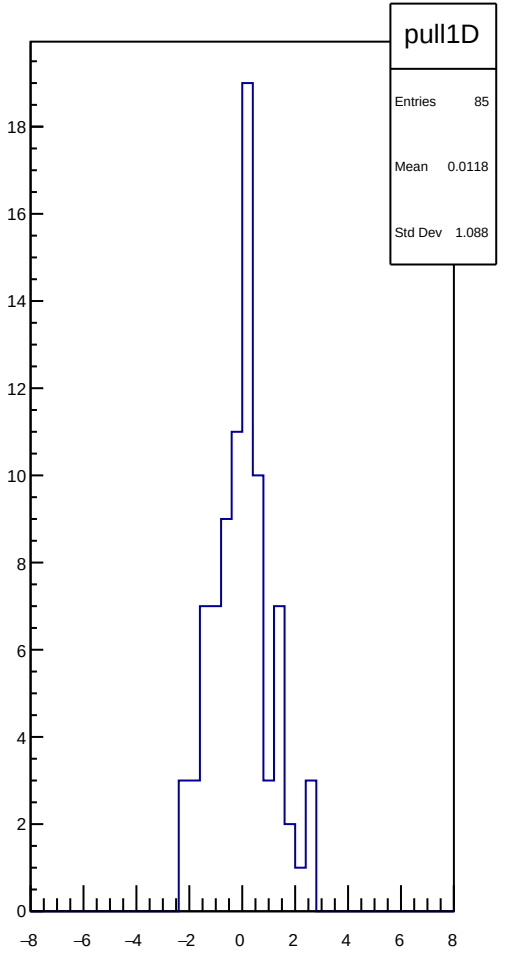

pull1D
Entries 85
Mean 0.01181
Std Dev 1.088

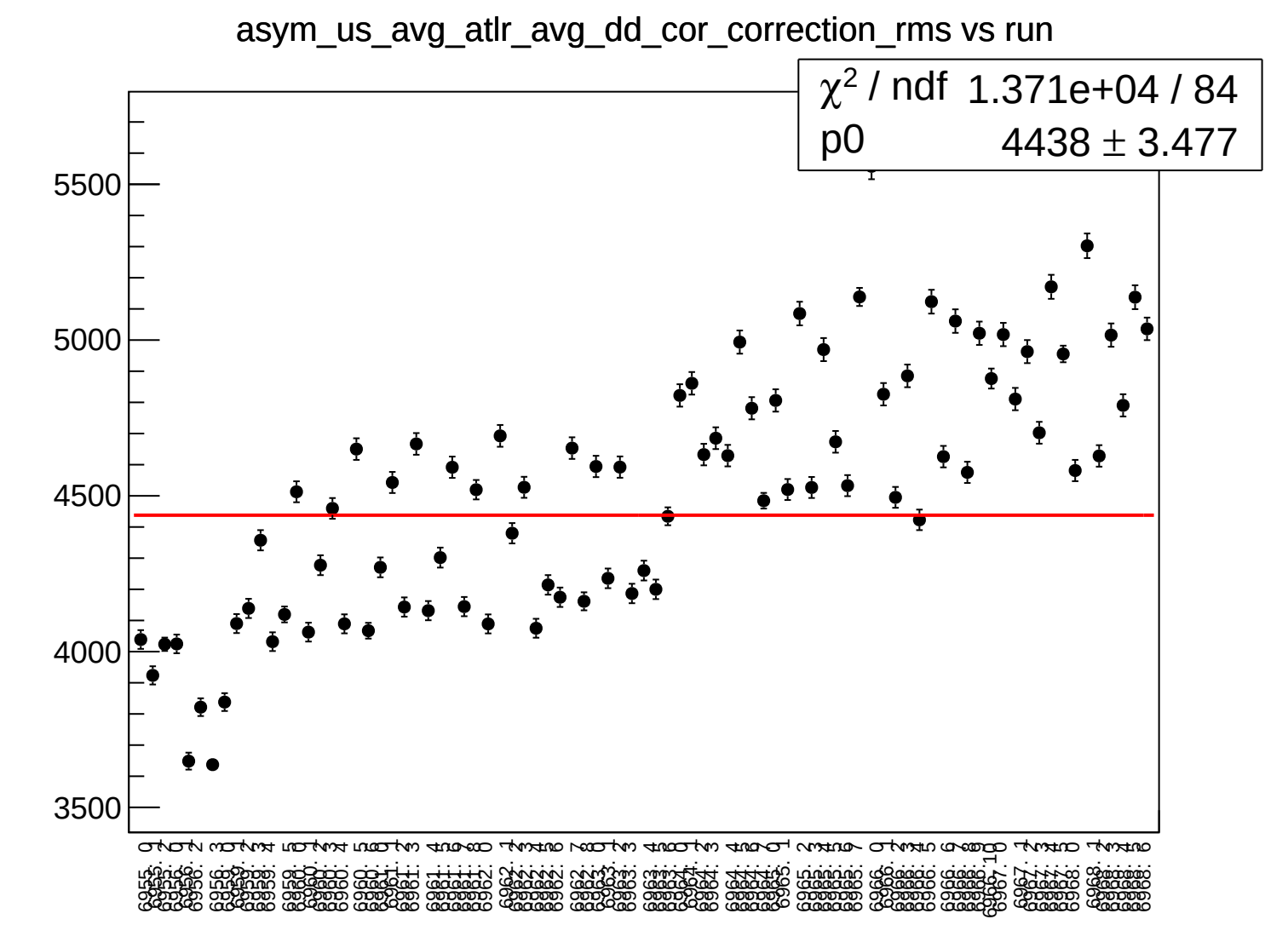

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.371e+04 / 84
p0 4438 ± 3.477
5500
5000
4500
4000
3500

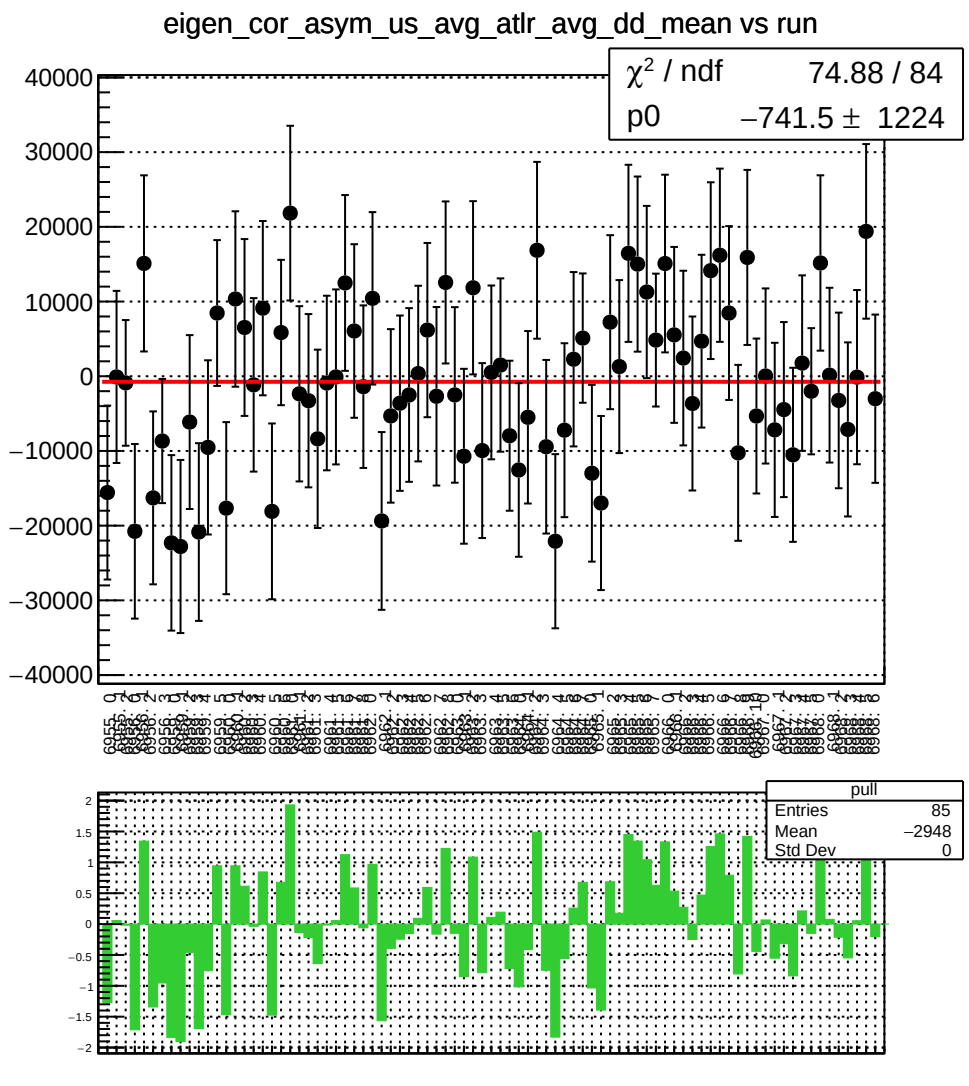

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 74.88 / 84
p0 −741.5 ± 1224
pull
Entries 85
Mean −2948
Std Dev 0
pull1D
Entries 85
Mean −0.002045
Std Dev 0.9386

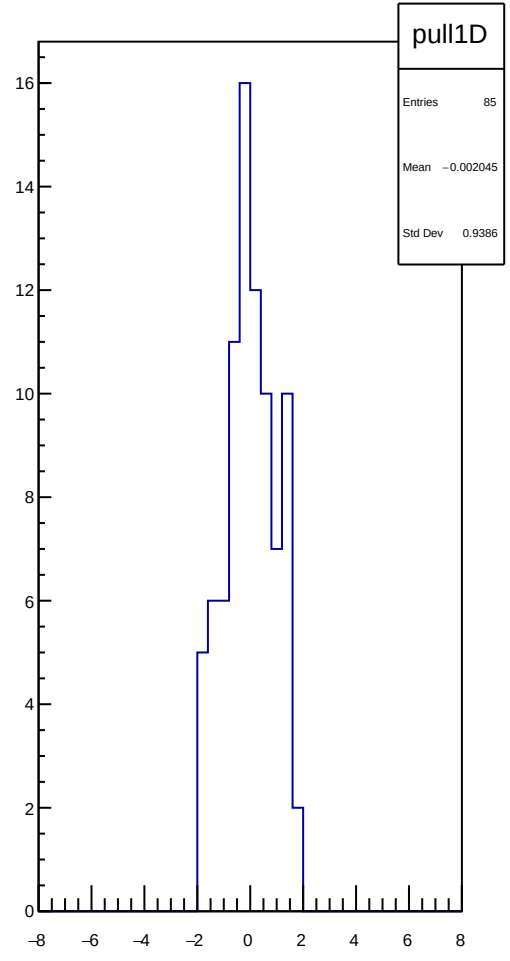

cor_asym_us_avg_atlr_avg_dd_rms vs run
$\chi^2$ / ndf 108.6 / 84
p0 1109 ± 0.8653
1140
1130
1120
1110
1100
1090
1080

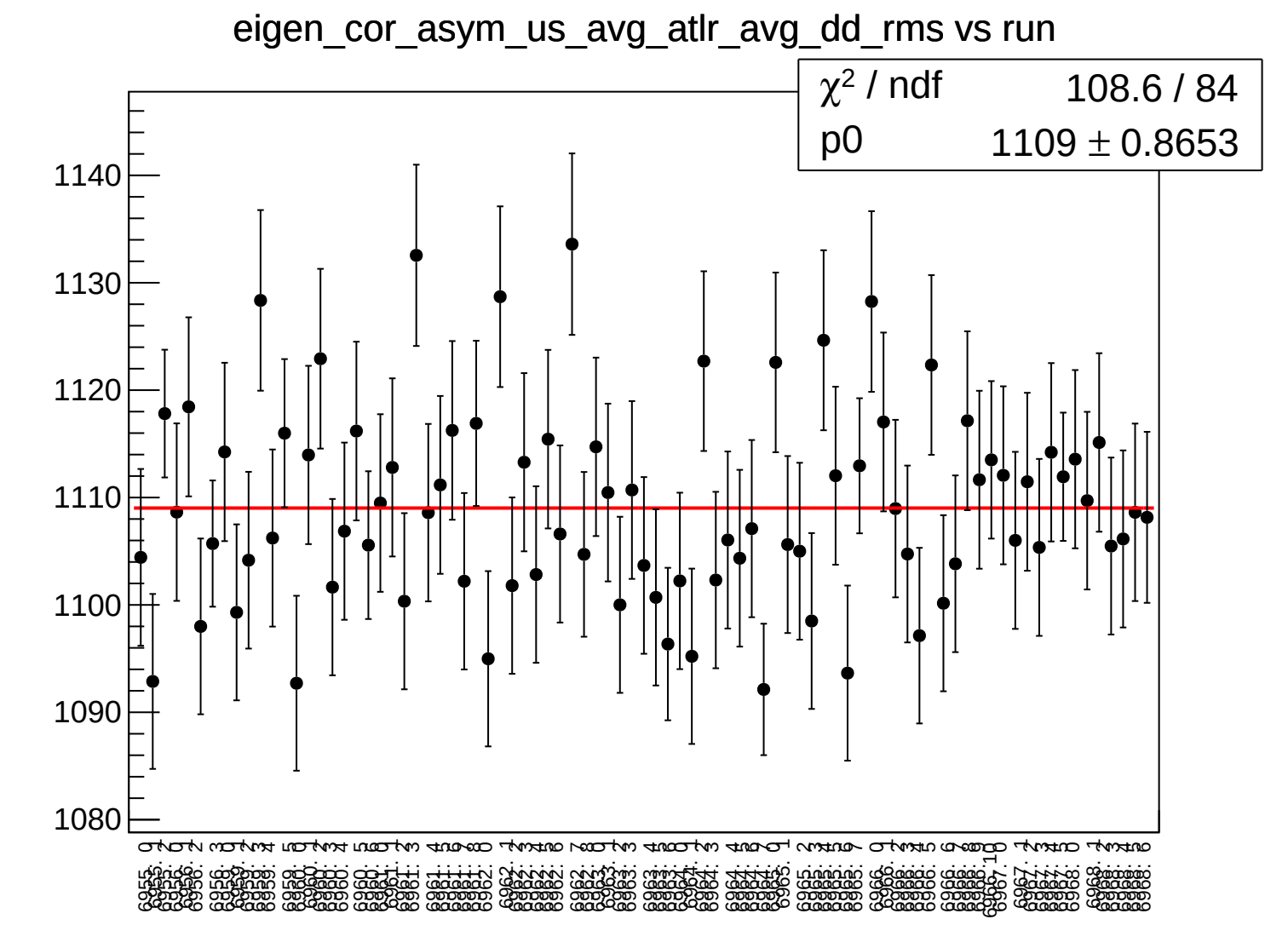

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.7 / 84
p0 2118 ± 4918
pull
Entries 85
Mean 31.9
Std Dev 64.34

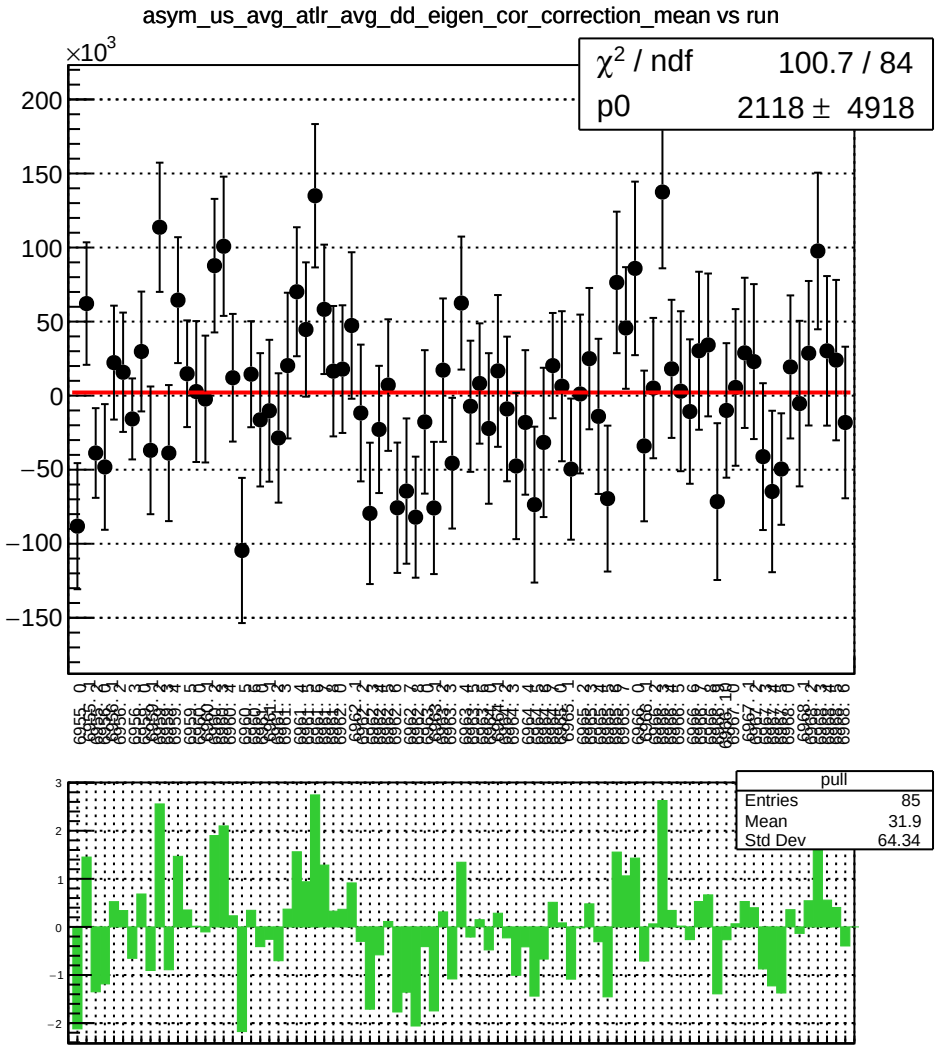

pull1D
Entries 85
Mean 0.0118
Std Dev 1.088

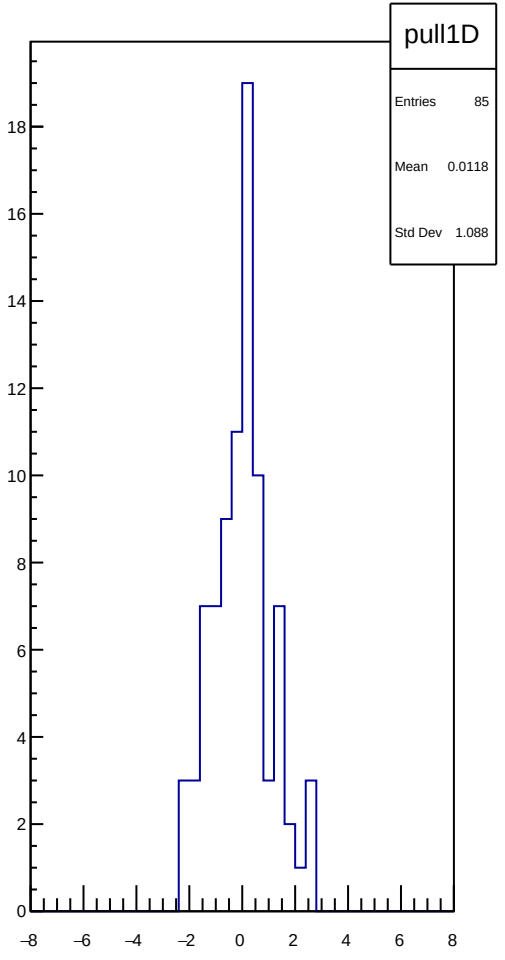

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.371e+04 / 84
p0 4438 ± 3.477
5500
5000
4500
4000
3500

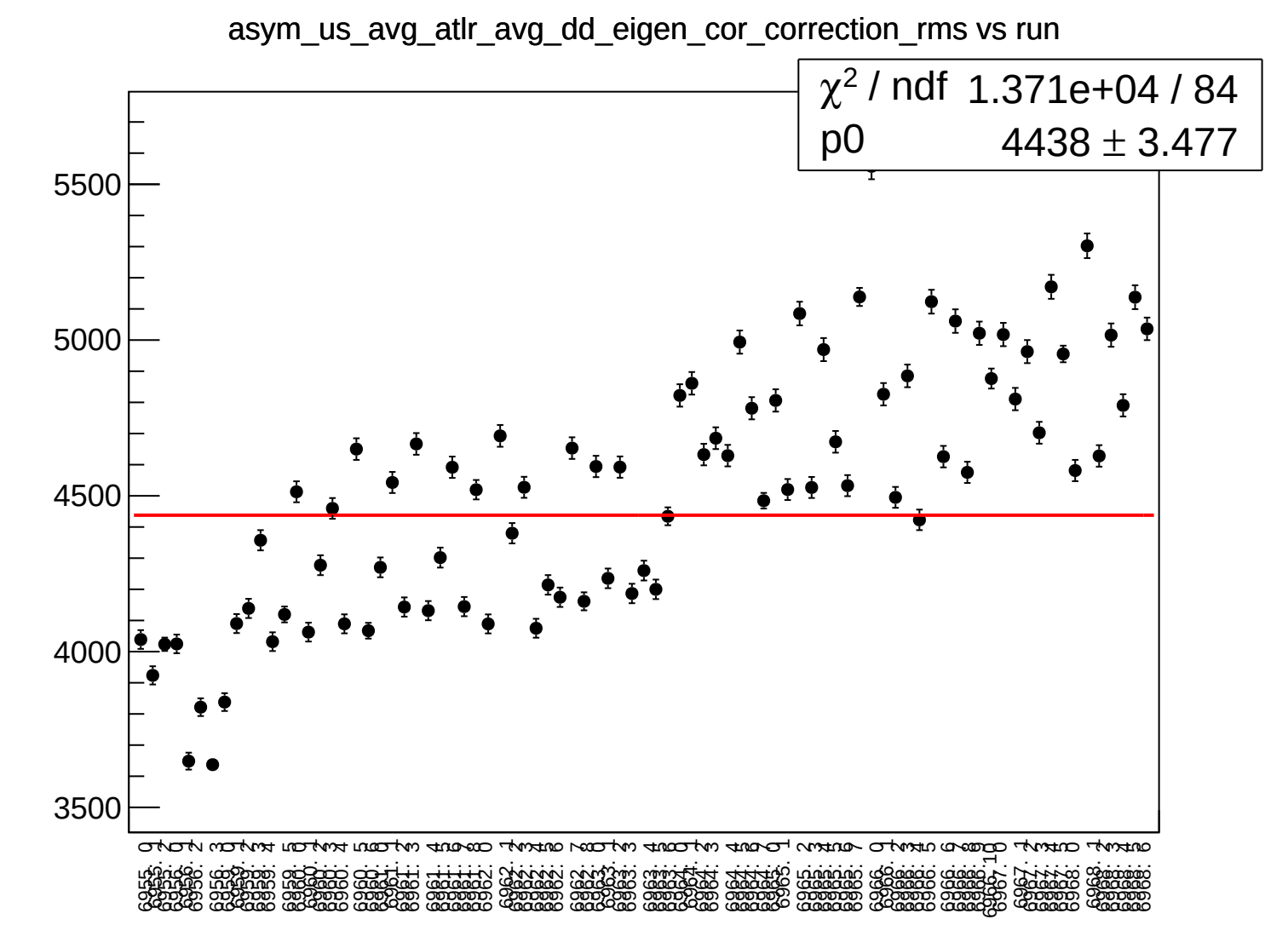

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 74.88 / 84
p0 −741.5 ± 1224
pull
Entries 85
Mean −2948
Std Dev 0

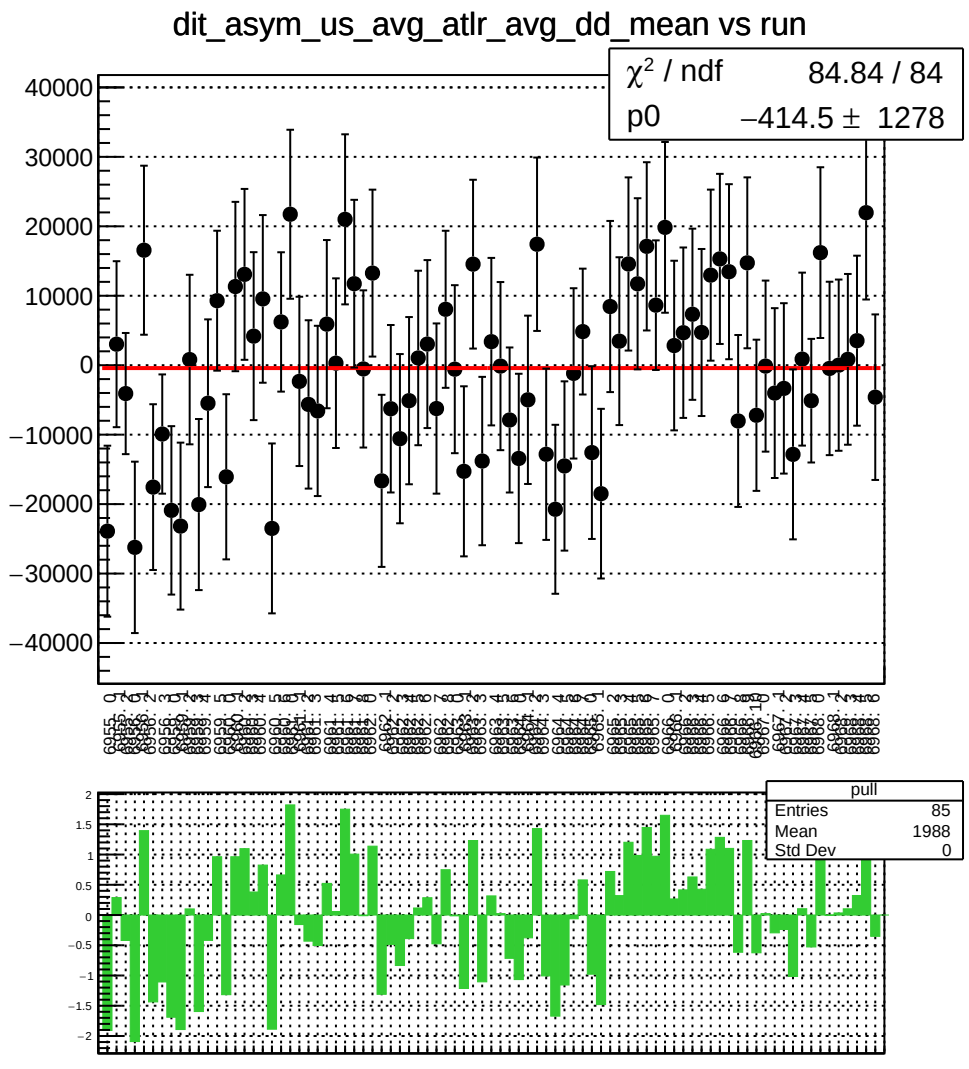

pull1D
Entries 85
Mean −0.002045
Std Dev 0.9386

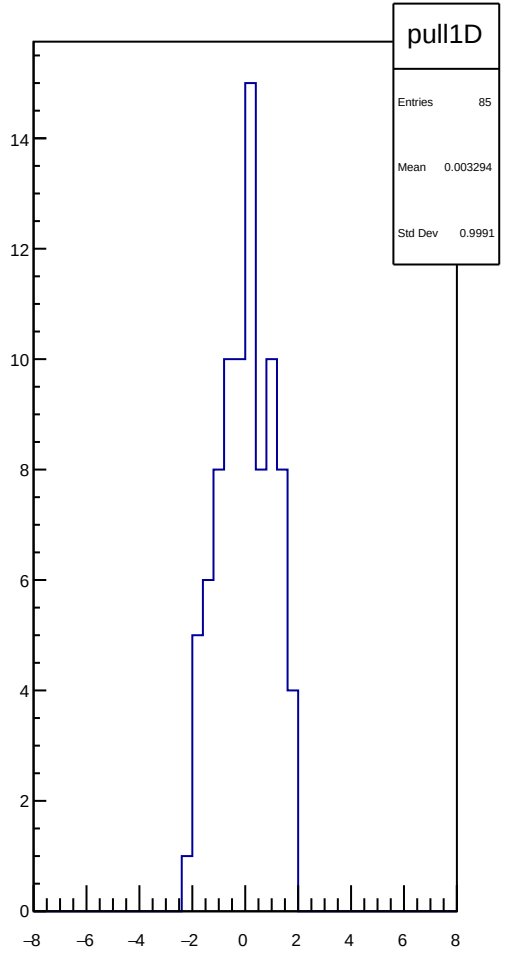

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 108.6 / 84
p0 1109 ± 0.8653
1140
1130
1120
1110
1100
1090
1080

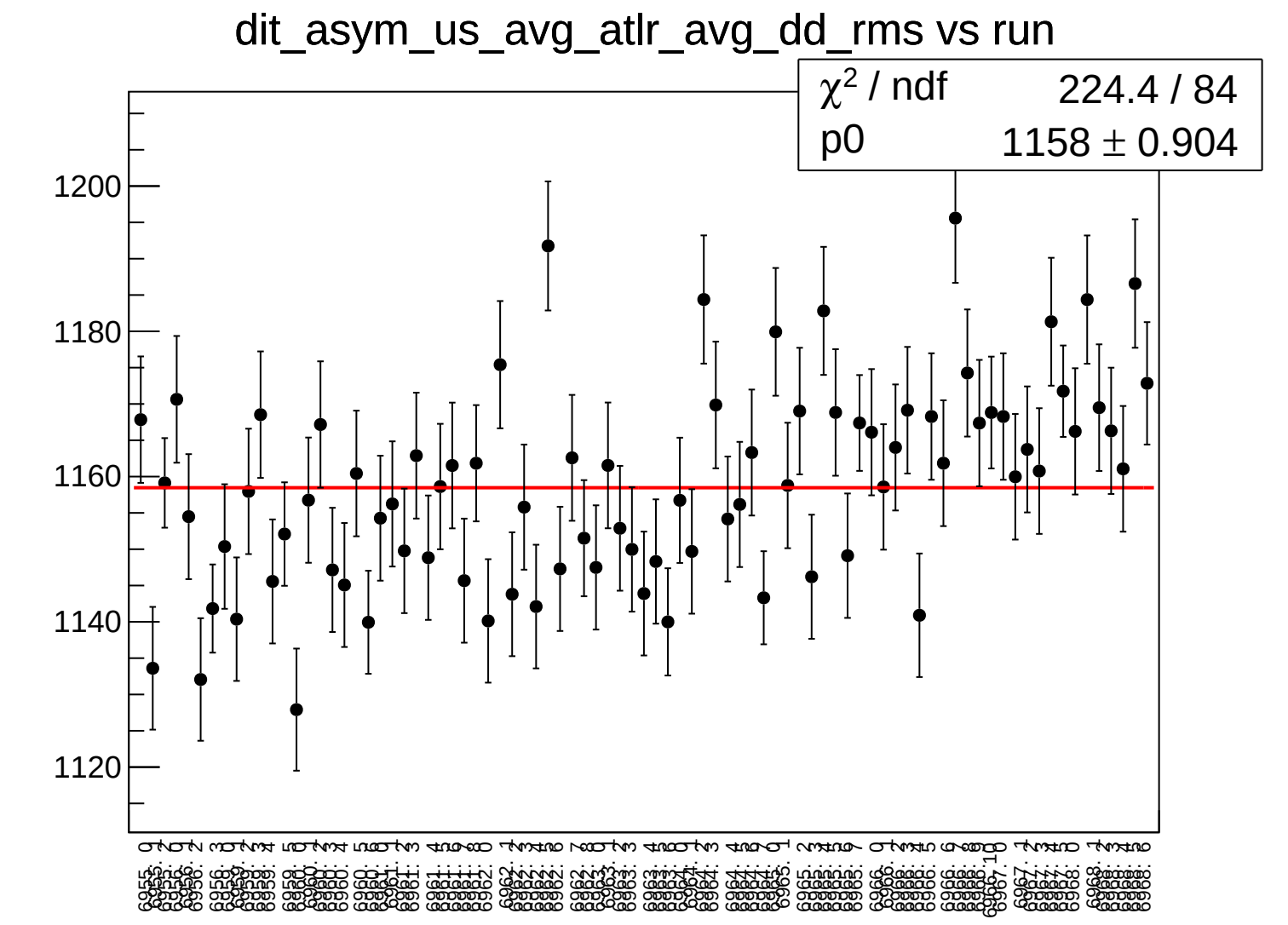

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.7 / 84
p0 2118 ± 4918
pull
Entries 85
Mean 31.9
Std Dev 64.34

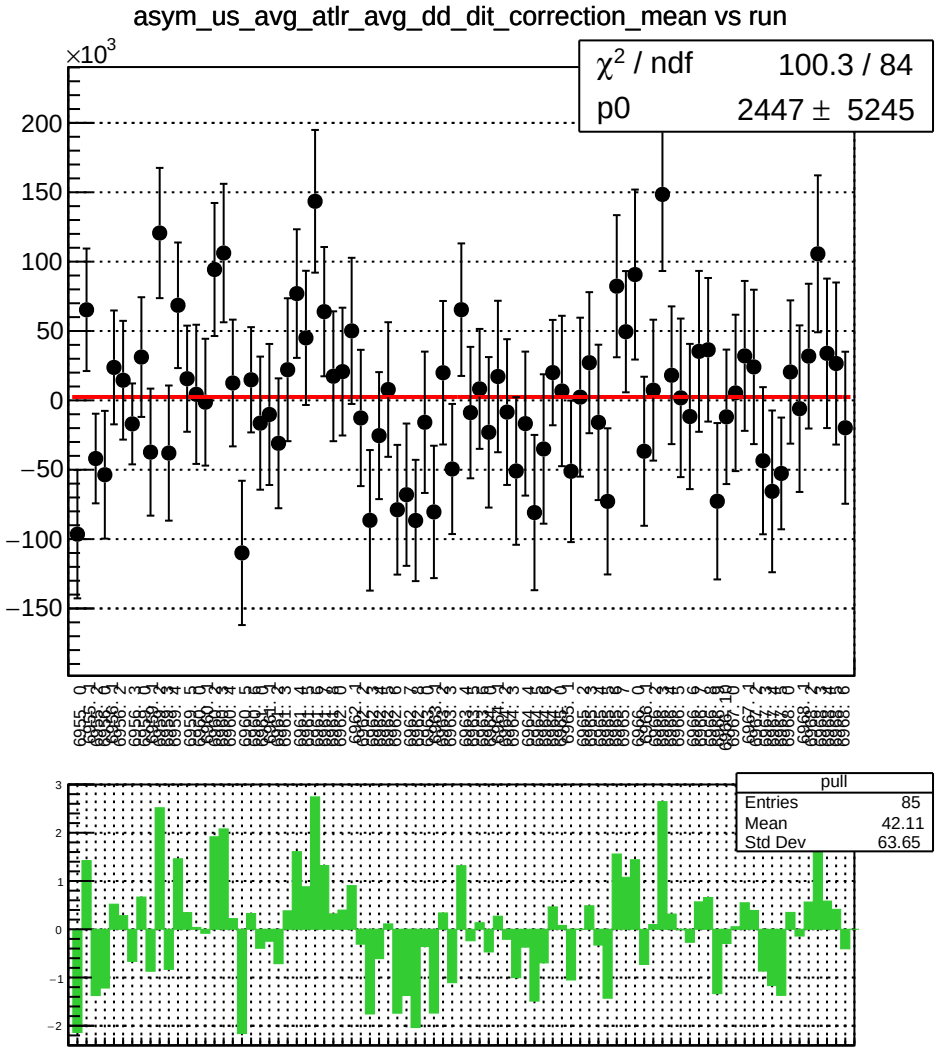

pull1D
Entries 85
Mean 0.0118
Std Dev 1.088

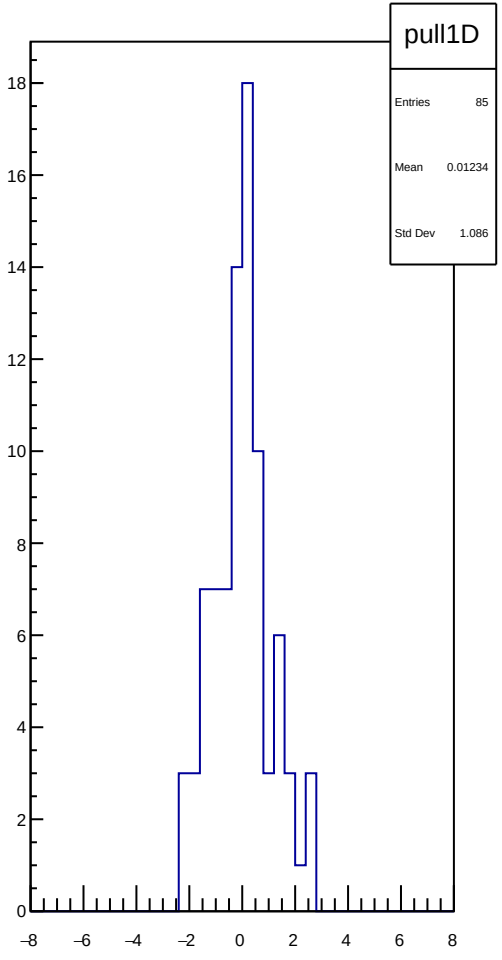

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.371e+04 / 84
p0 4438 ± 3.477
5500
5000
4500
4000
3500

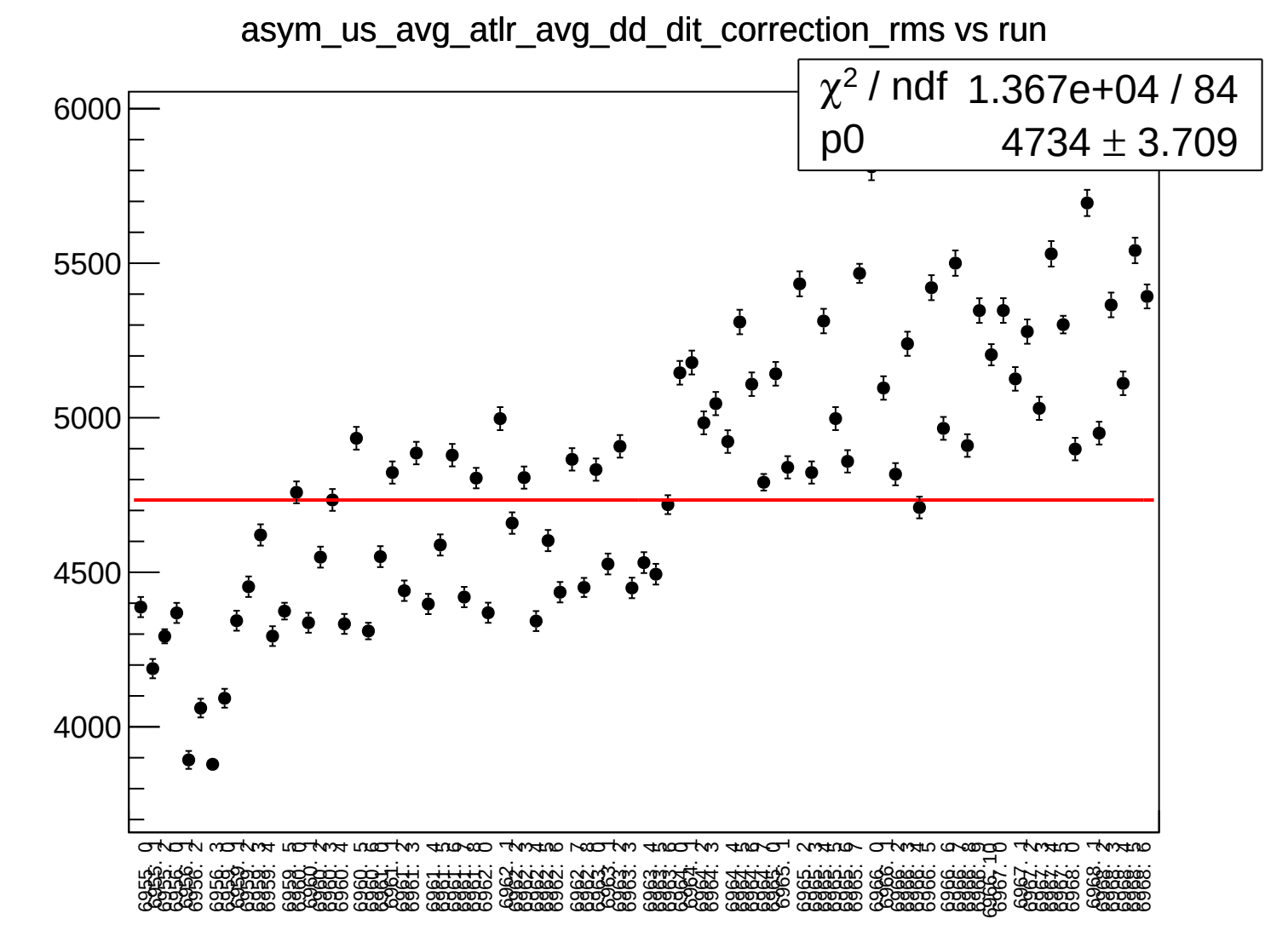

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 84.84 / 84
p0 −414.5 ± 1278
pull
Entries 85
Mean 1988
Std Dev 0

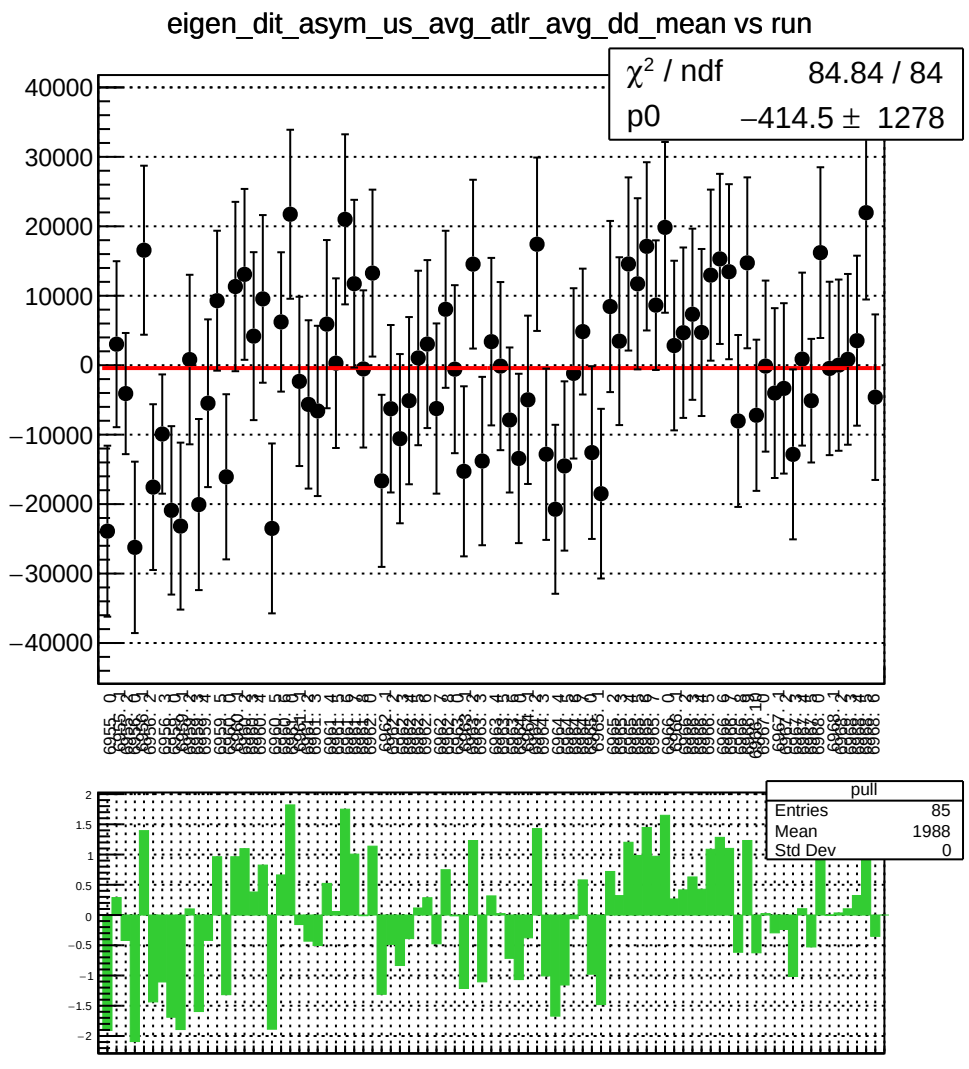

pull1D
Entries 85
Mean 0.003294
Std Dev 0.9991

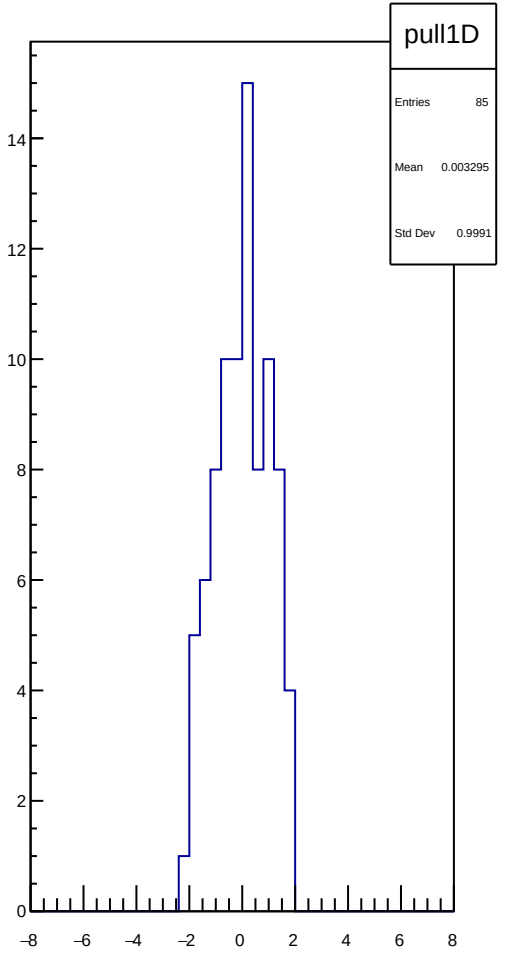

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 224.4 / 84
p0 1158 ± 0.904
1200
1180
1160
1140
1120

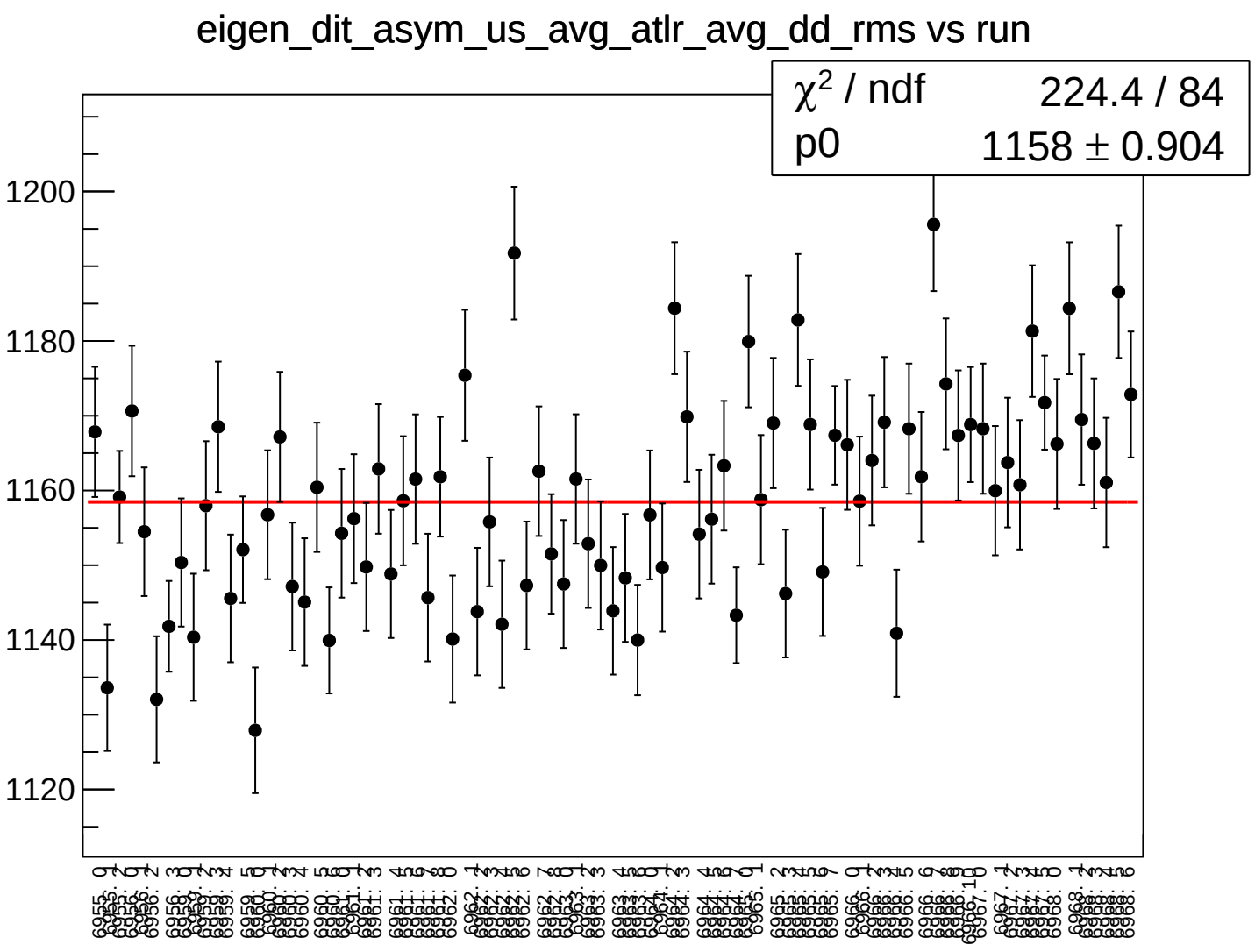

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.3 / 84
p0 2447 ± 5245
pull
Entries 85
Mean 42.11
Std Dev 63.65

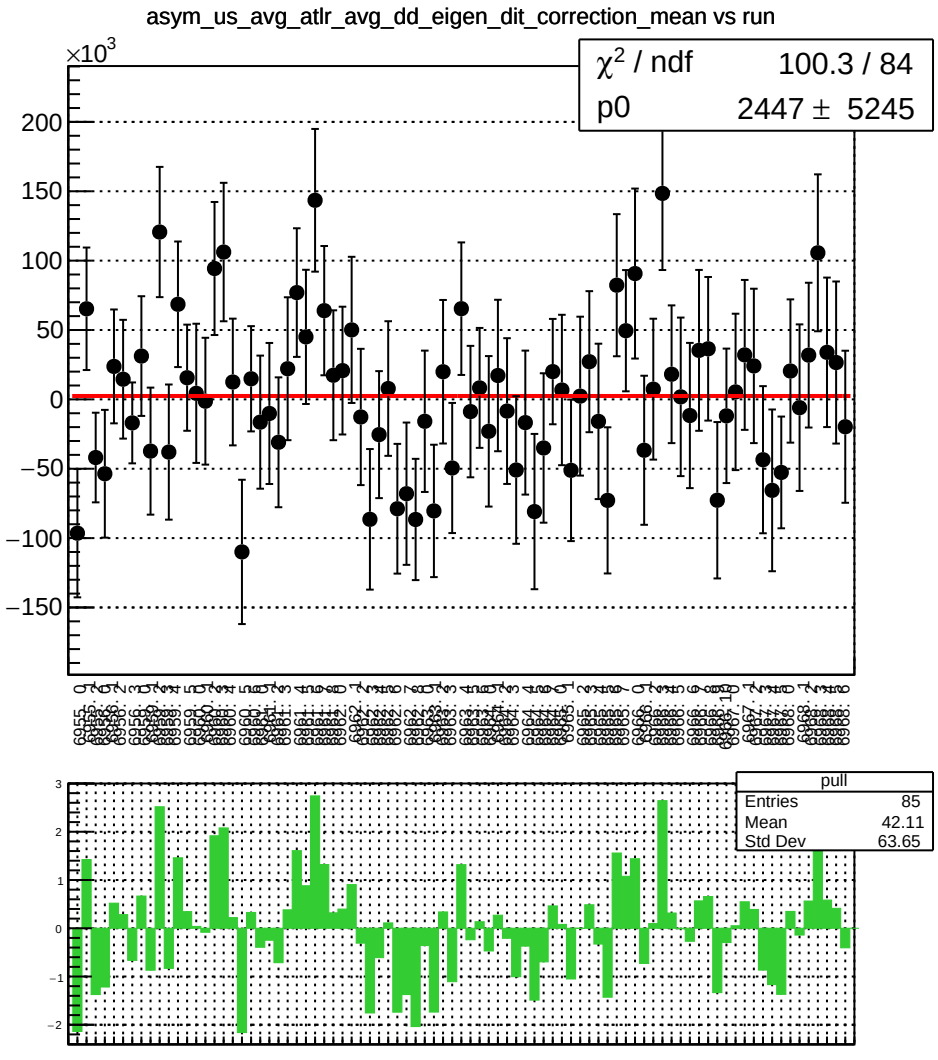

pull1D
Entries 85
Mean 0.01234
Std Dev 1.086

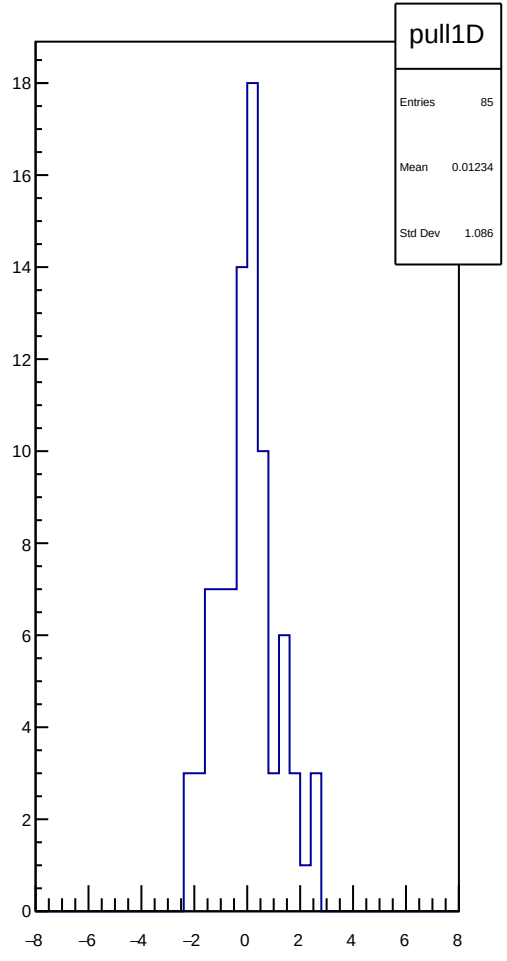

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.367e+04 / 84
p0 4734 ± 3.709
6000
5500
5000
4500
4000

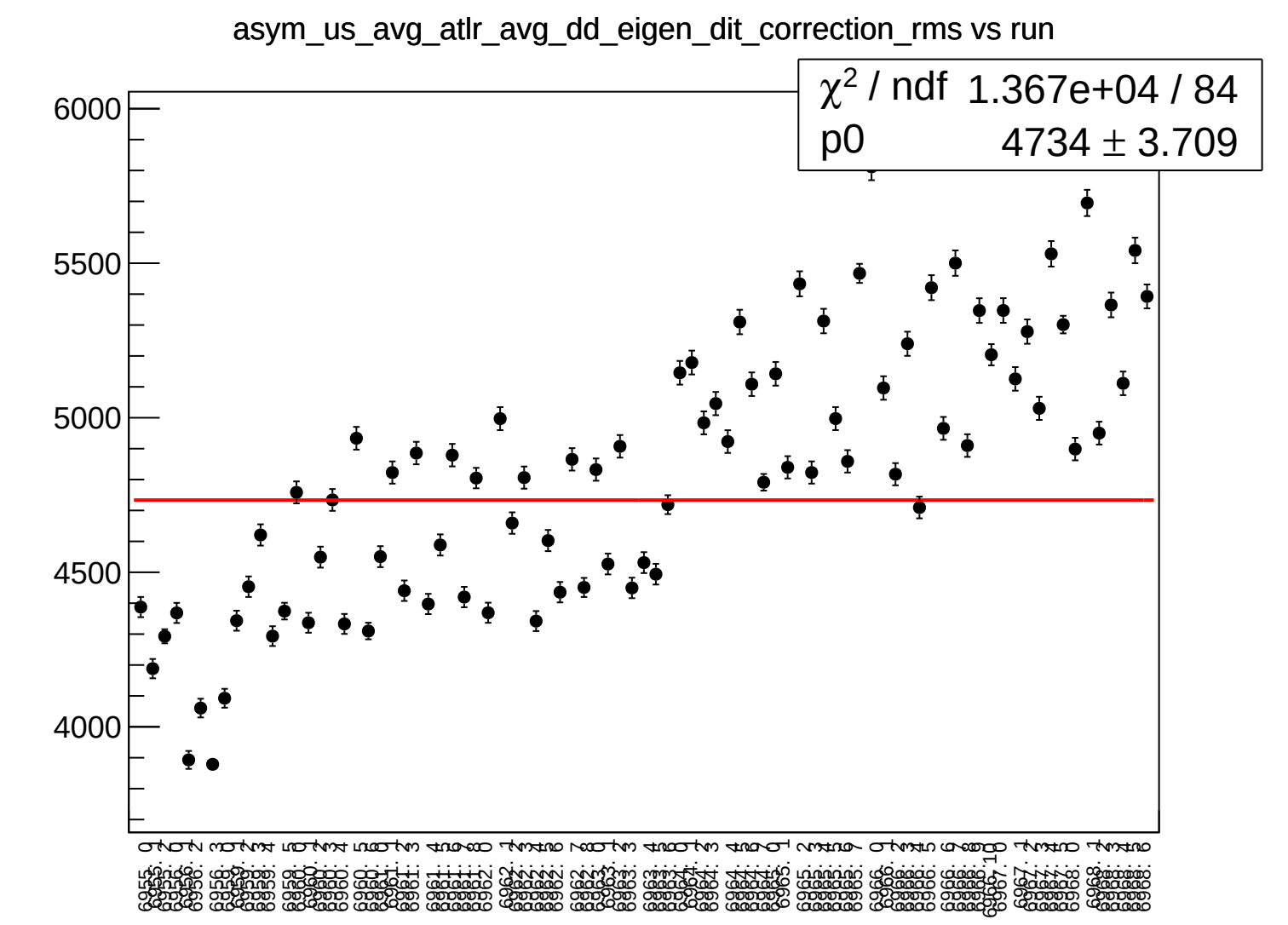

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 84.84 / 84
p0 −414.5 ± 1278
pull
Entries 85
Mean 1988
Std Dev 0

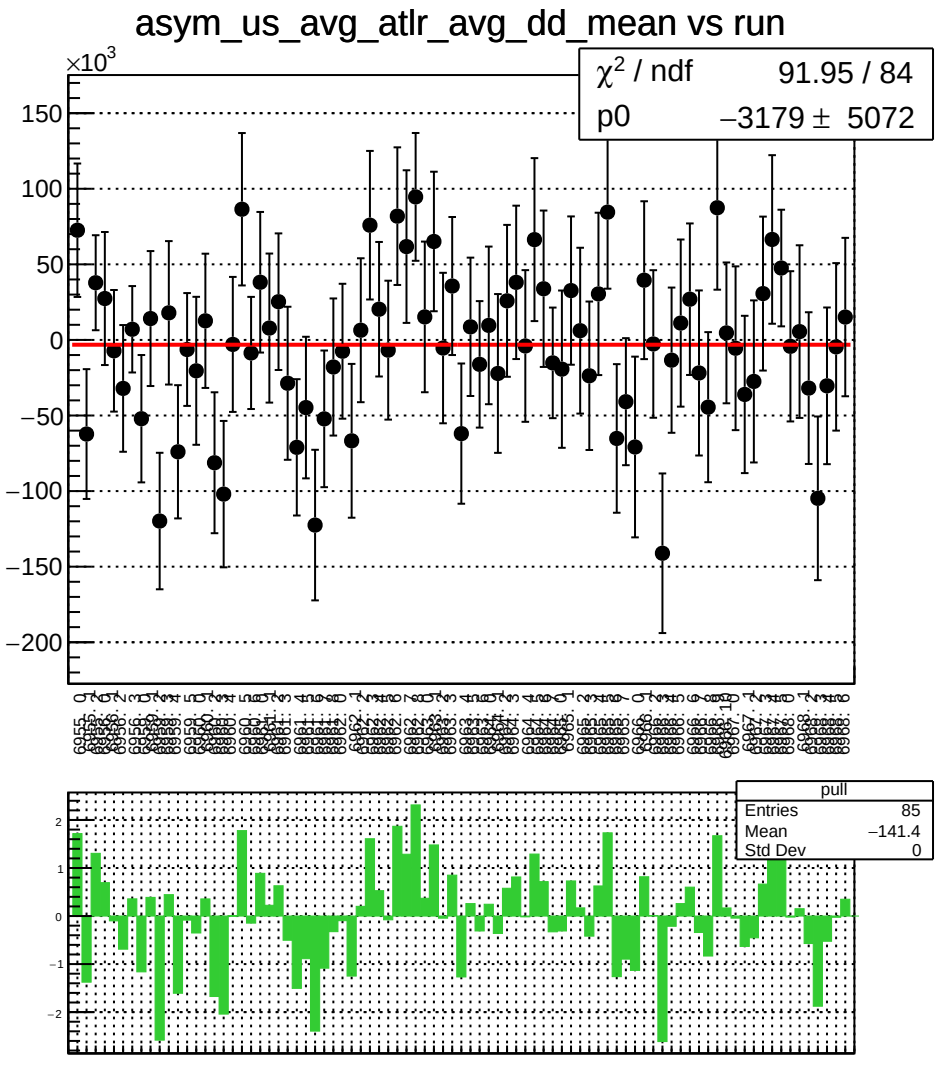

pull1D
Entries 85
Mean 0.003295
Std Dev 0.9991

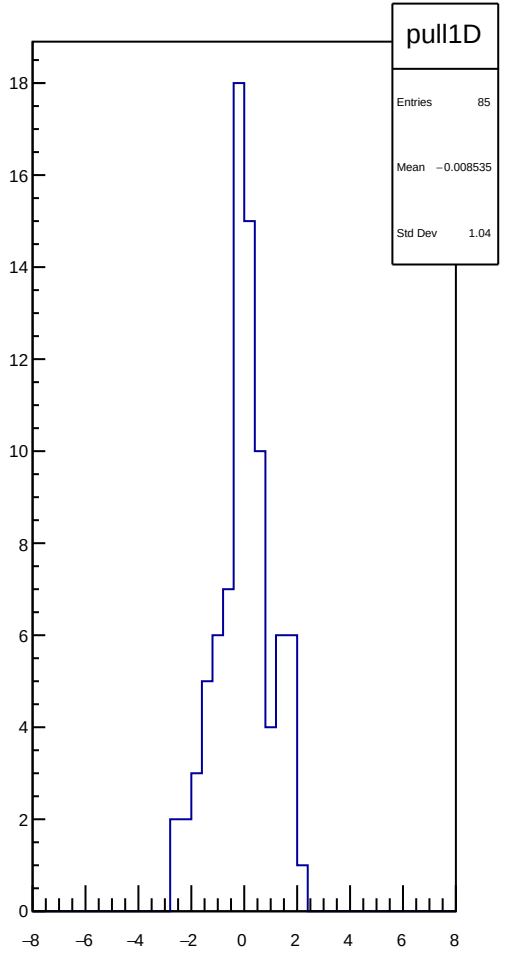

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 224.4 / 84
p0 1158 ± 0.904
1200
1180
1160
1140
1120

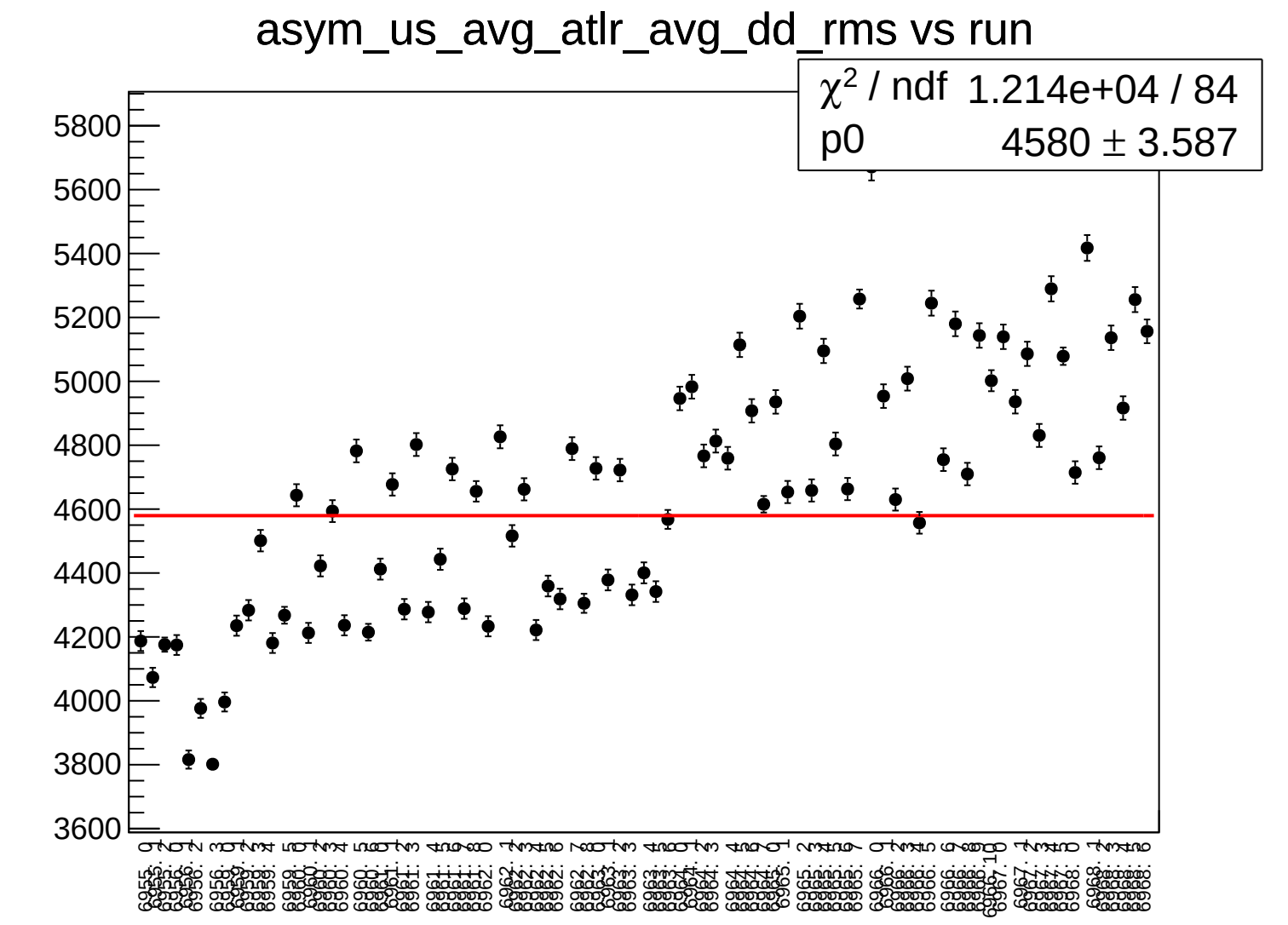

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.3 / 84
p0 2447 ± 5245
200
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 42.11
Std Dev 63.65
3
2
1
0
−1
−2

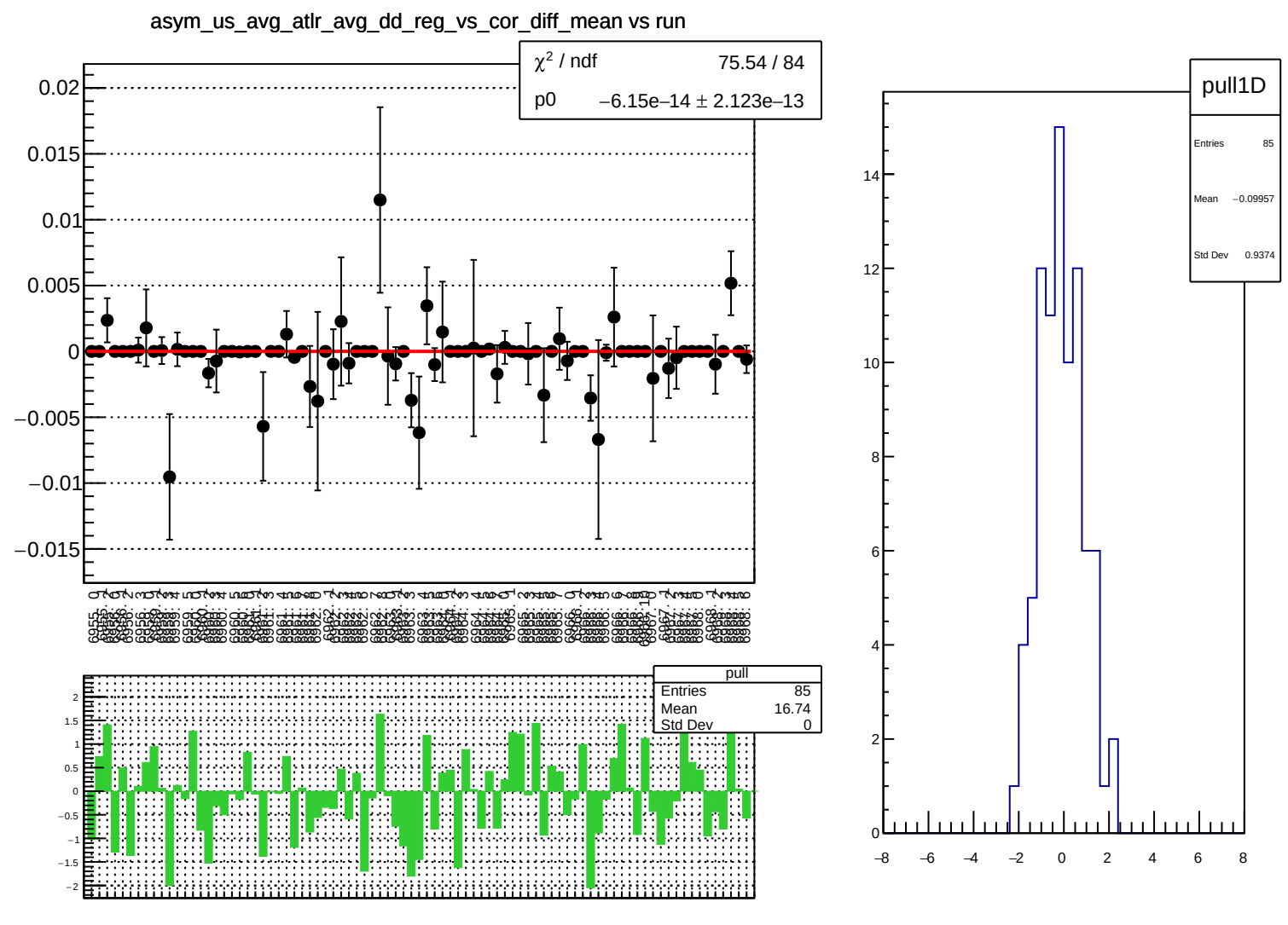

pull1D
Entries 85
Mean 0.01234
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

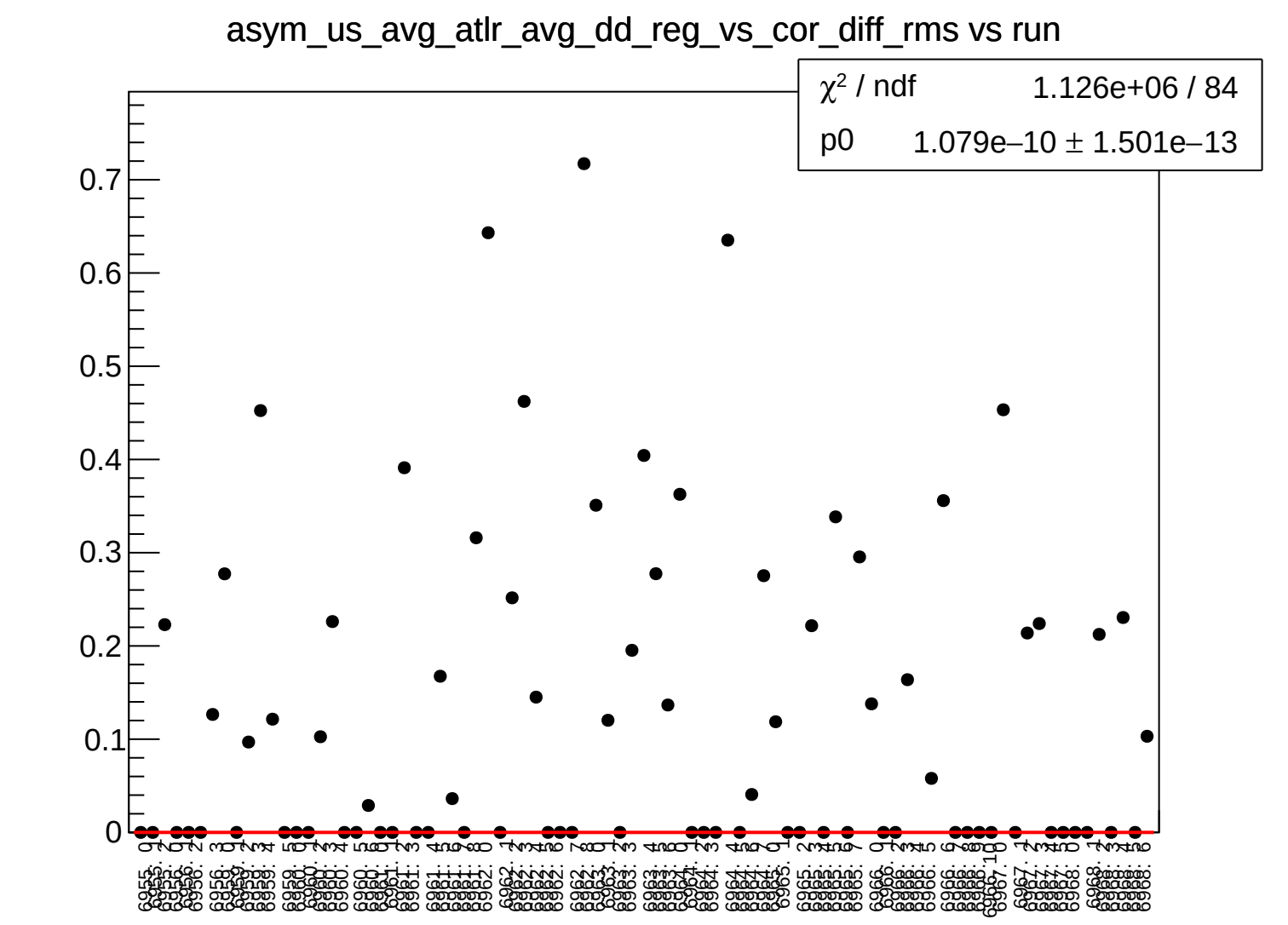

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.367e+04 / 84
p0 4734 ± 3.709
6000
5500
5000
4500
4000

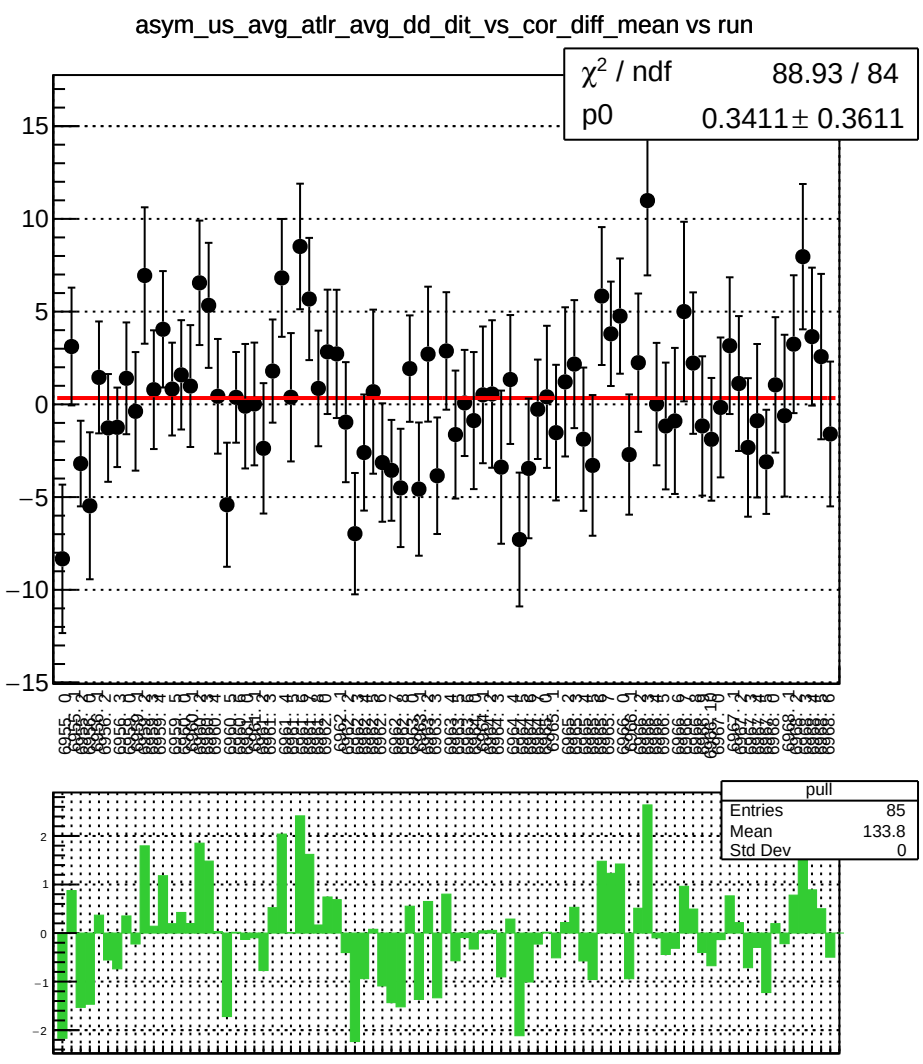

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 91.95 / 84
p0 −3179 ± 5072
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean −141.4
Std Dev 0
2
1
0
−1
−2

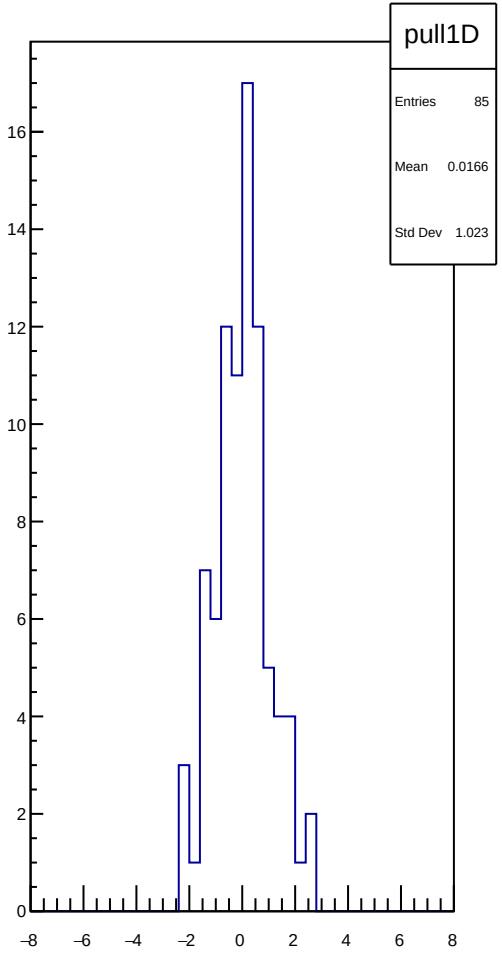

pull1D
Entries 85
Mean −0.008535
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

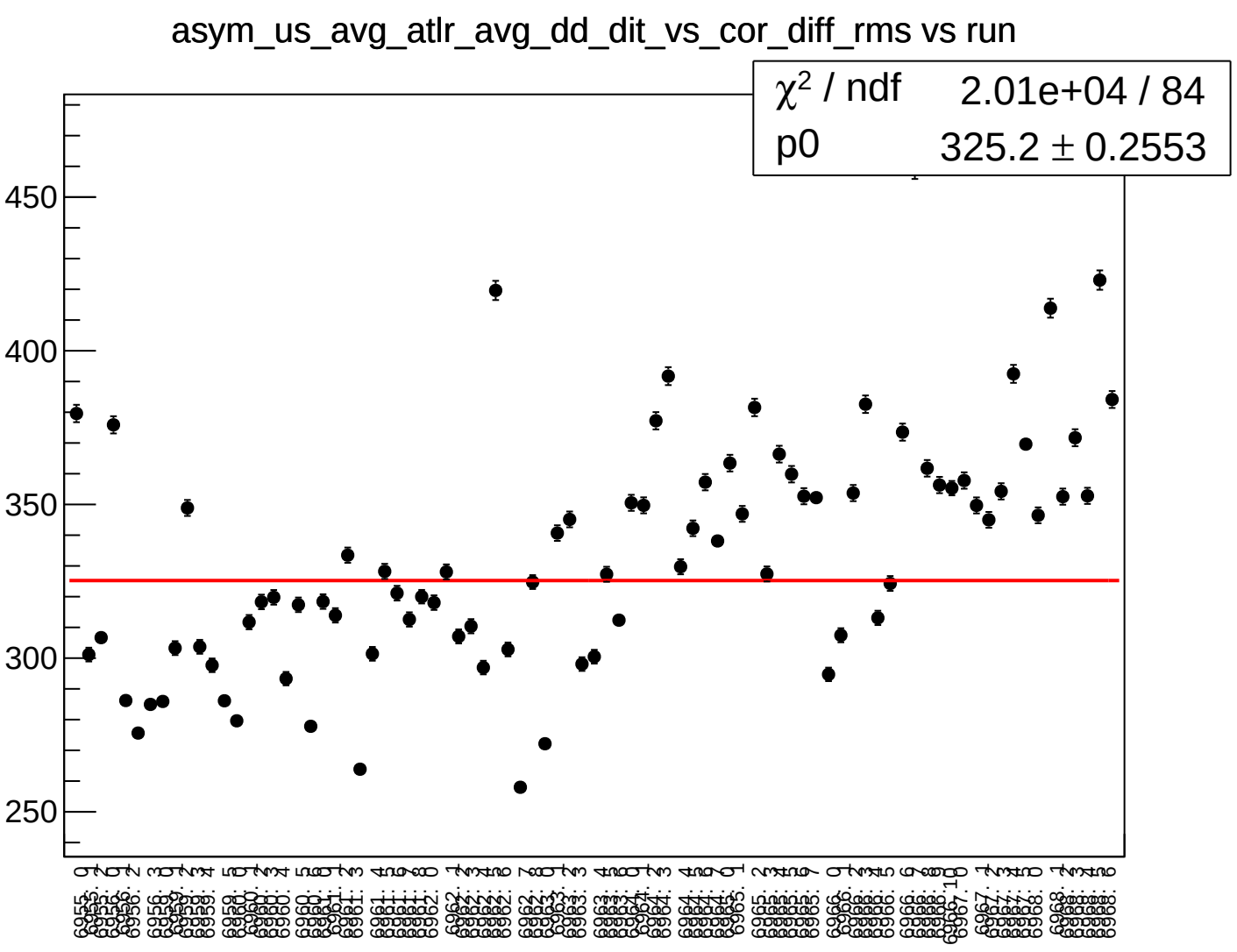

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.214e+04 / 84
p0 4580 ± 3.587
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

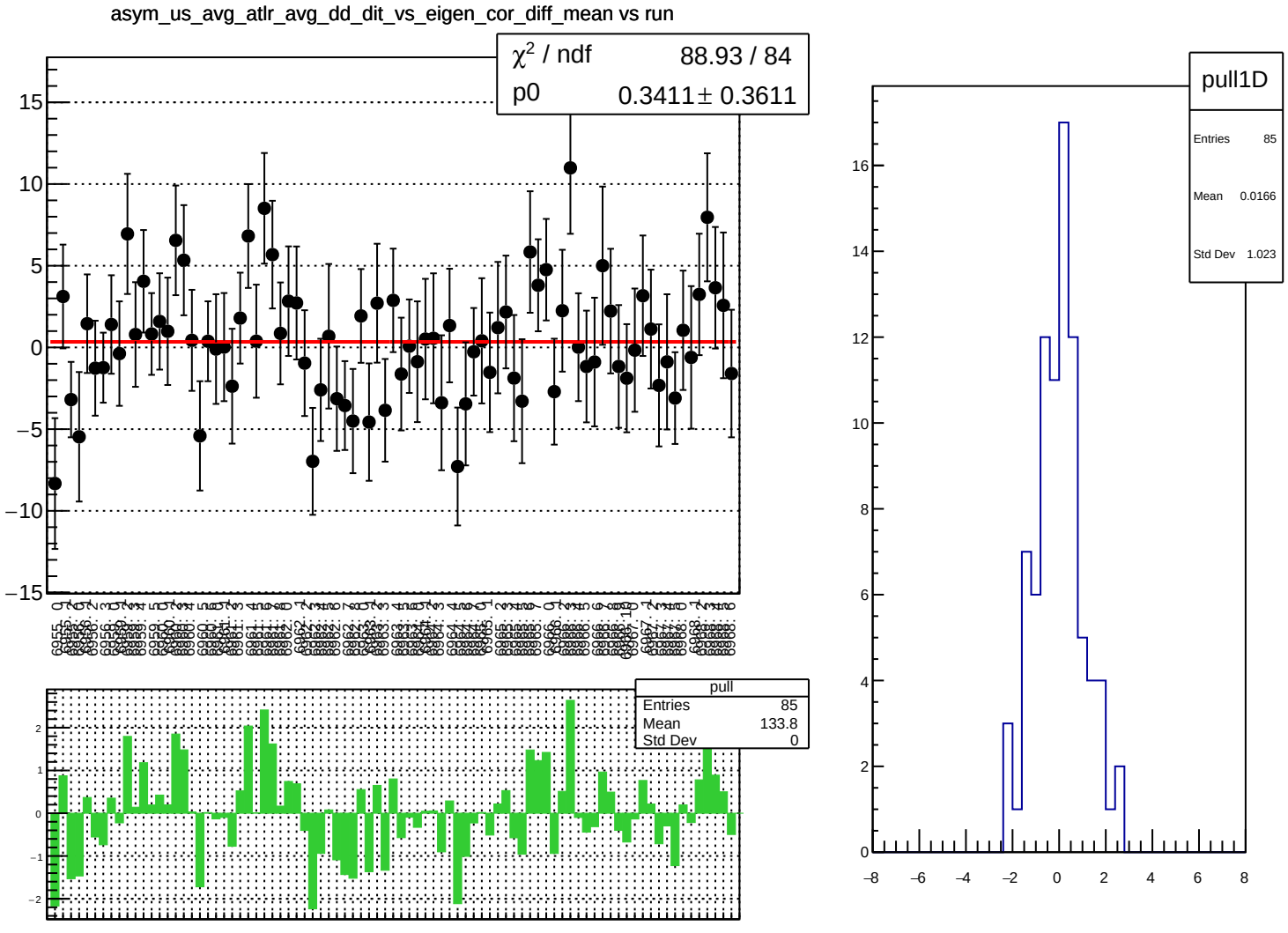

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.54 / 84
p0 −6.15e−14 ± 2.123e−13
pull
Entries 85
Mean 16.74
Std Dev 0
pull1D
Entries 85
Mean −0.09957
Std Dev 0.9374

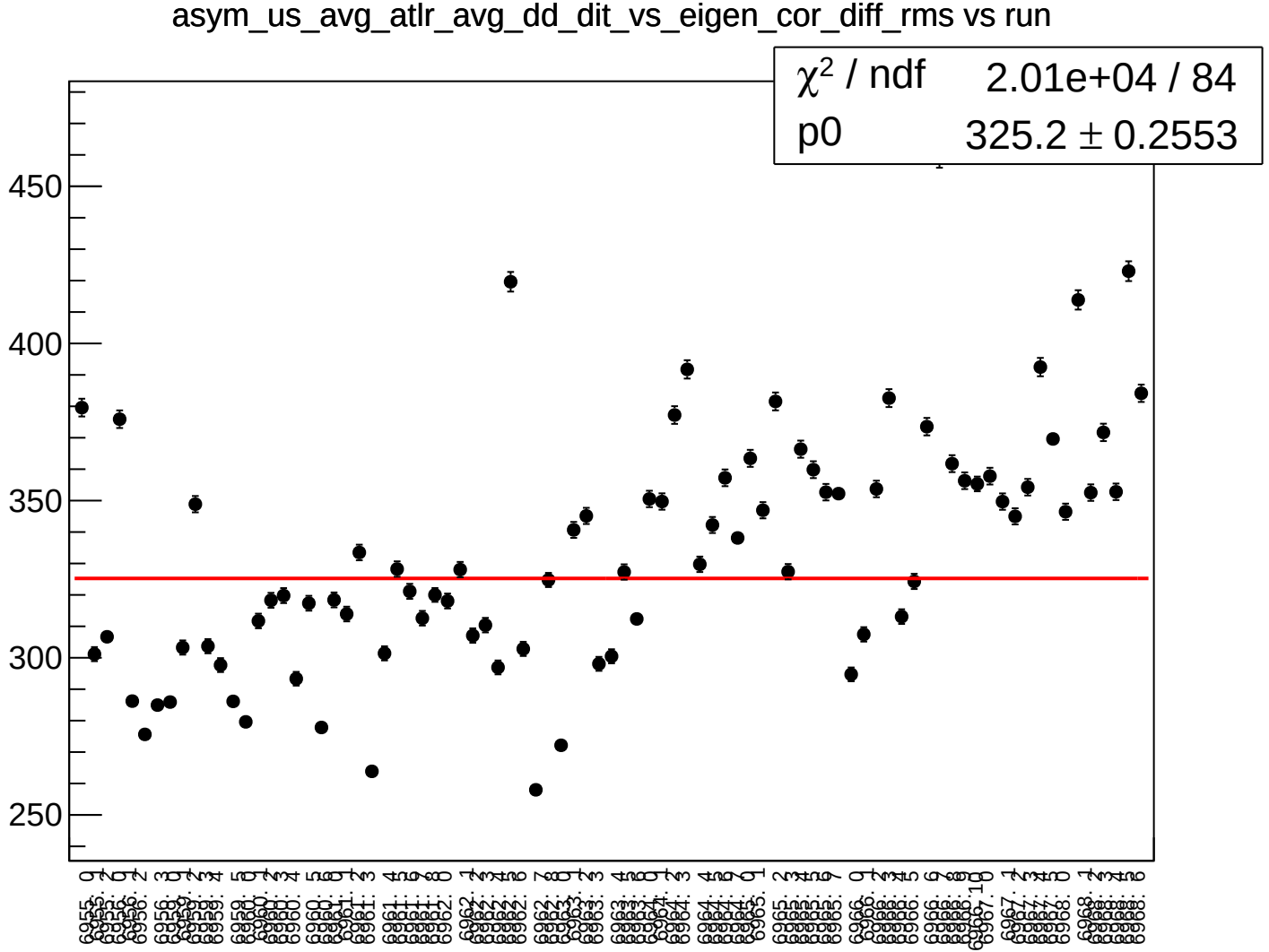

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.126e+06 / 84
p0 1.079e−10 ± 1.501e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

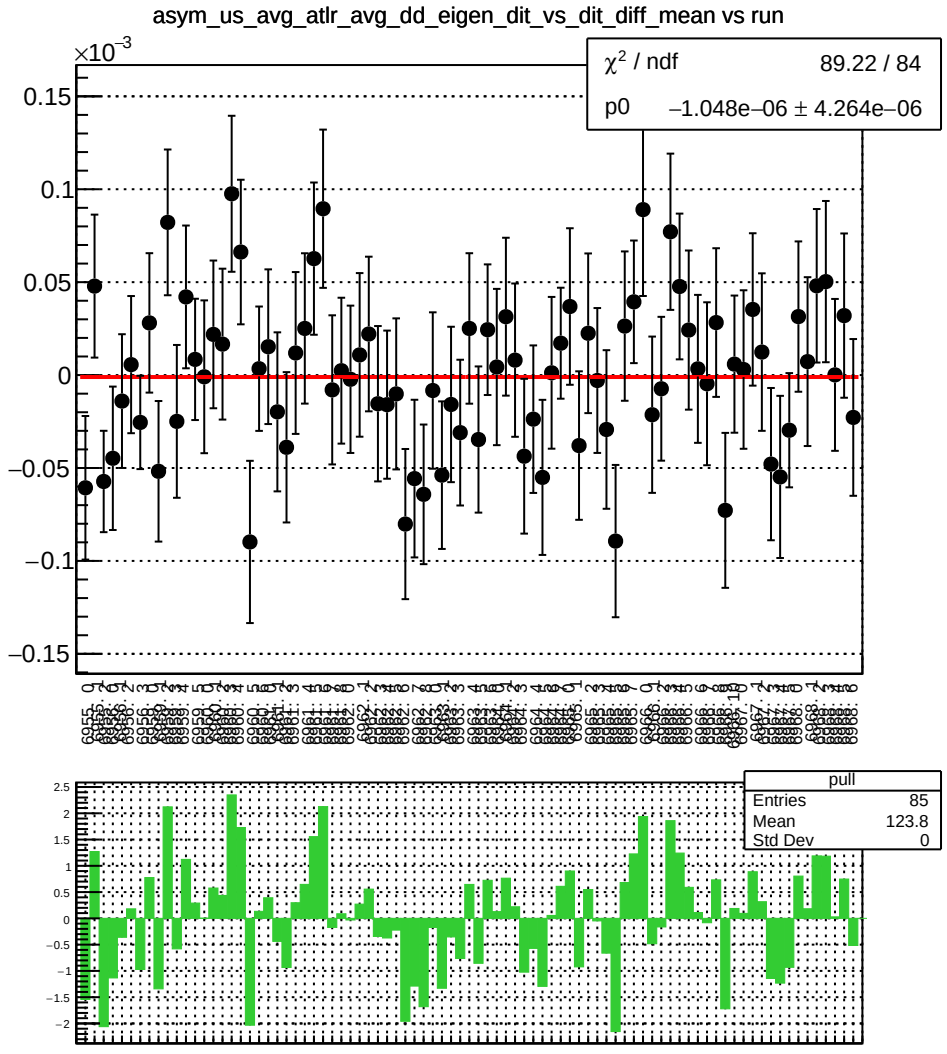

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.93 / 84
p0 0.3411± 0.3611
pull
Entries 85
Mean 133.8
Std Dev 0

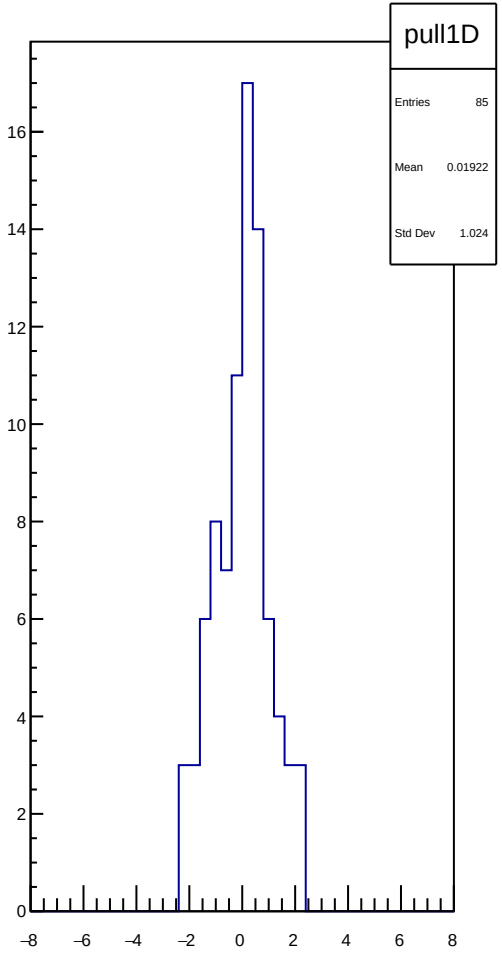

pull1D
Entries 85
Mean 0.0166
Std Dev 1.023

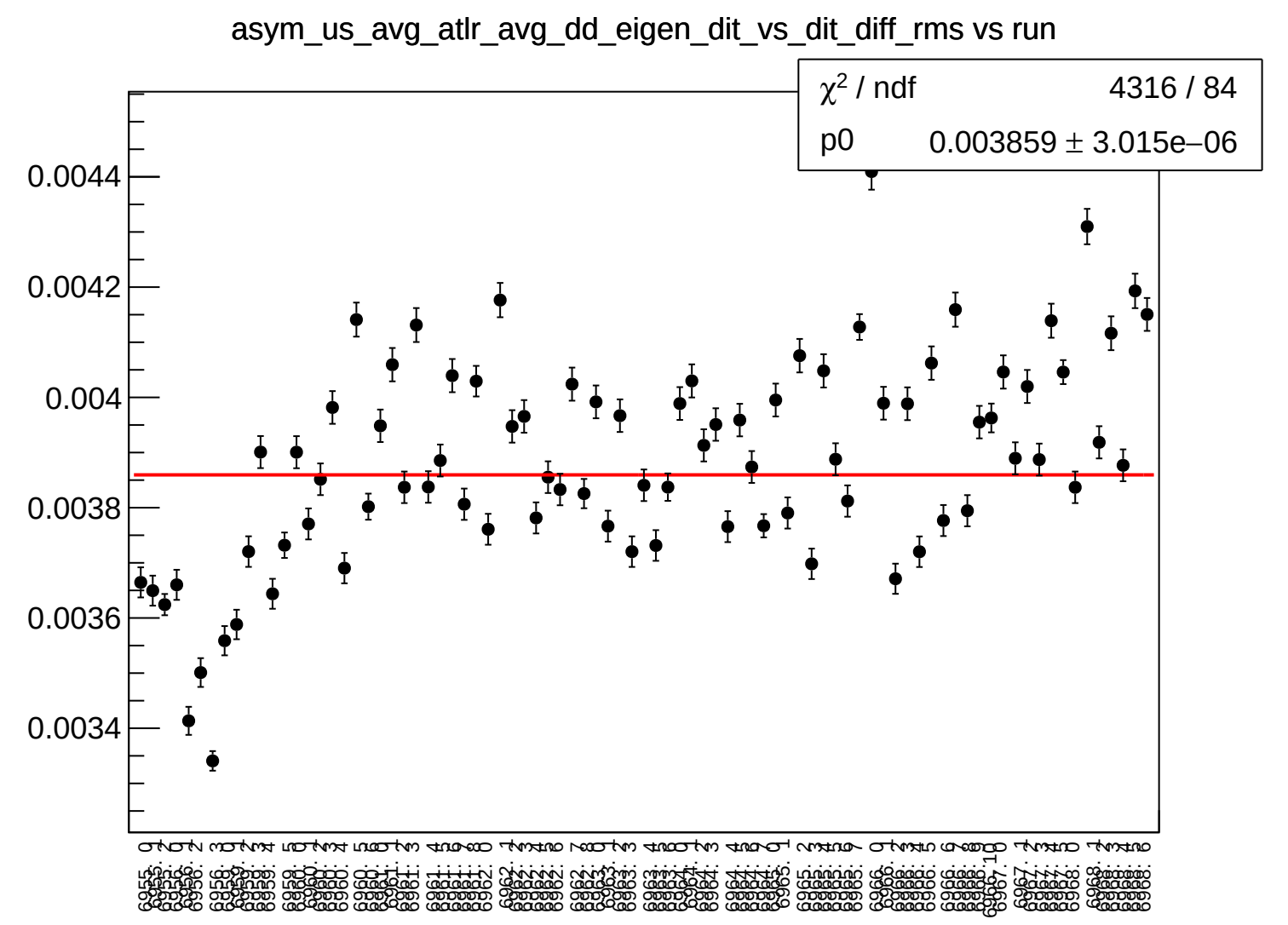

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.01e+04 / 84
p0 325.2 ± 0.2553
450
400
350
300
250

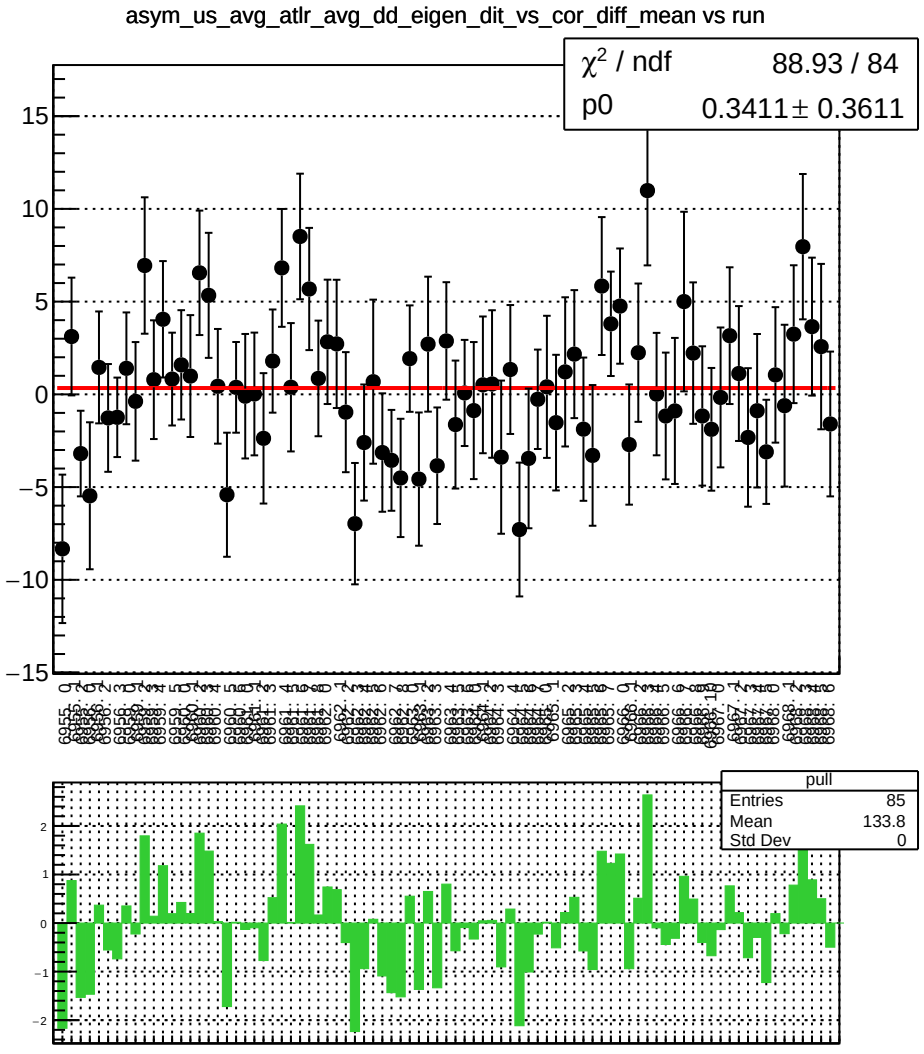

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.93 / 84
p0 0.3411± 0.3611
pull
Entries 85
Mean 133.8
Std Dev 0
pull1D
Entries 85
Mean 0.0166
Std Dev 1.023

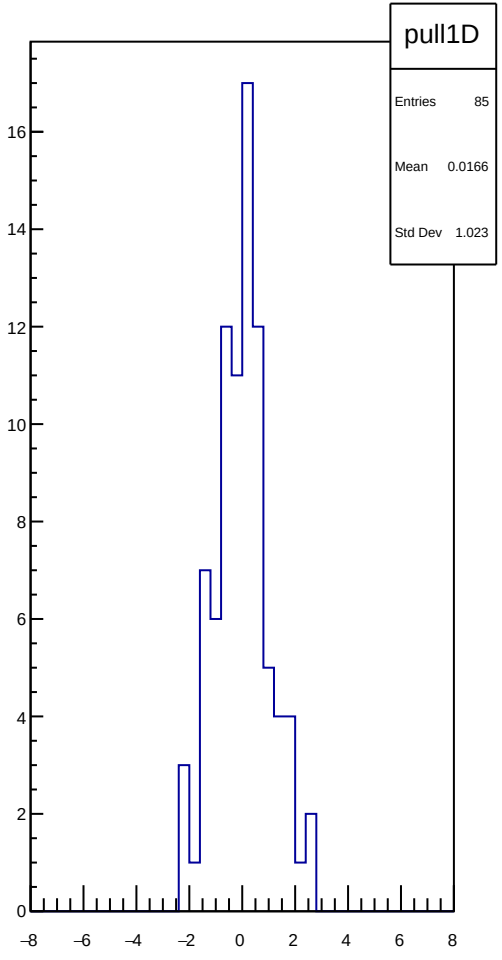

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.01e+04 / 84
p0 325.2 ± 0.2553
450
400
350
300
250

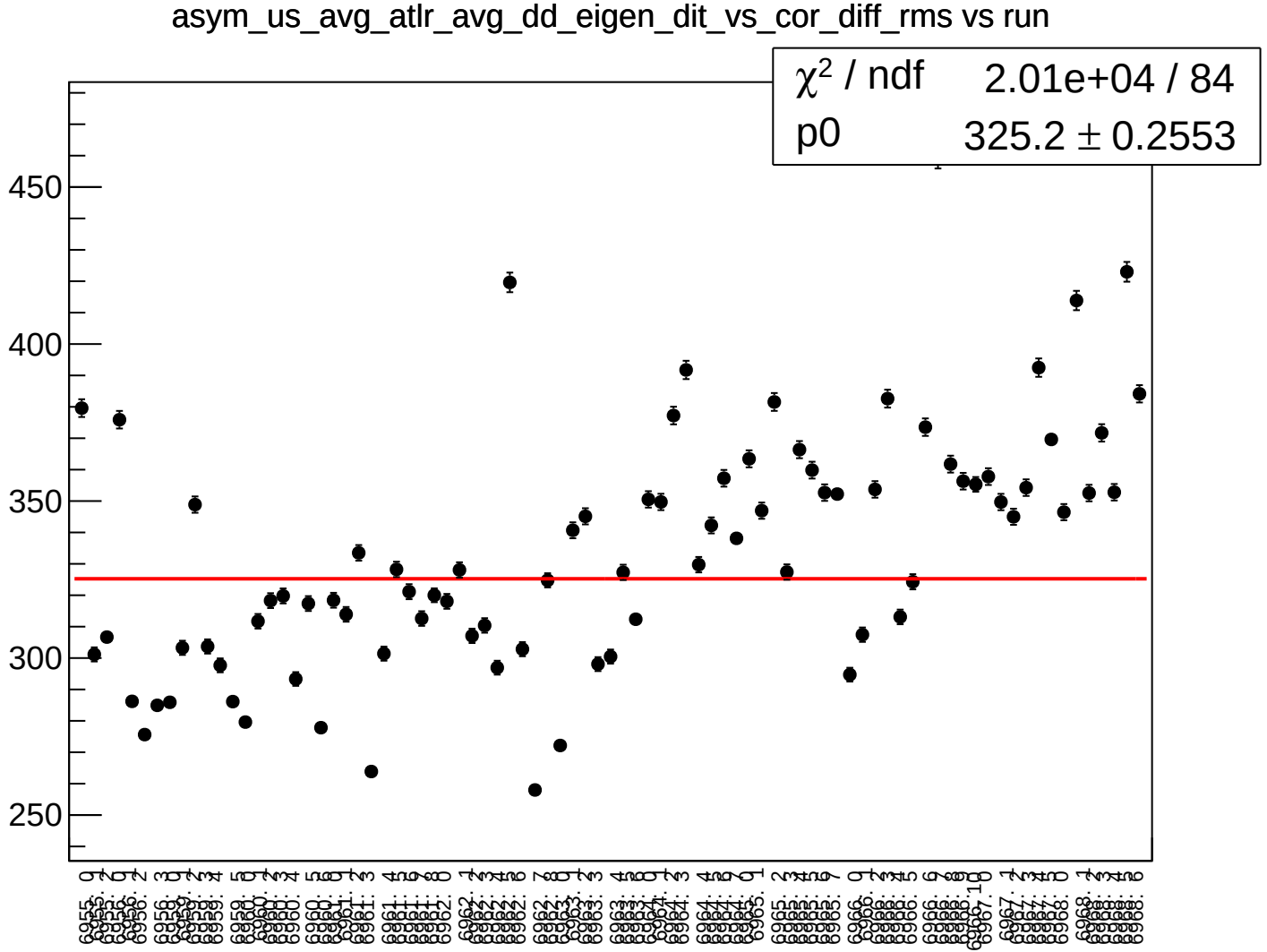

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.22 / 84
p0 −1.048e−06 ± 4.264e−06
pull
Entries 85
Mean 123.8
Std Dev 0

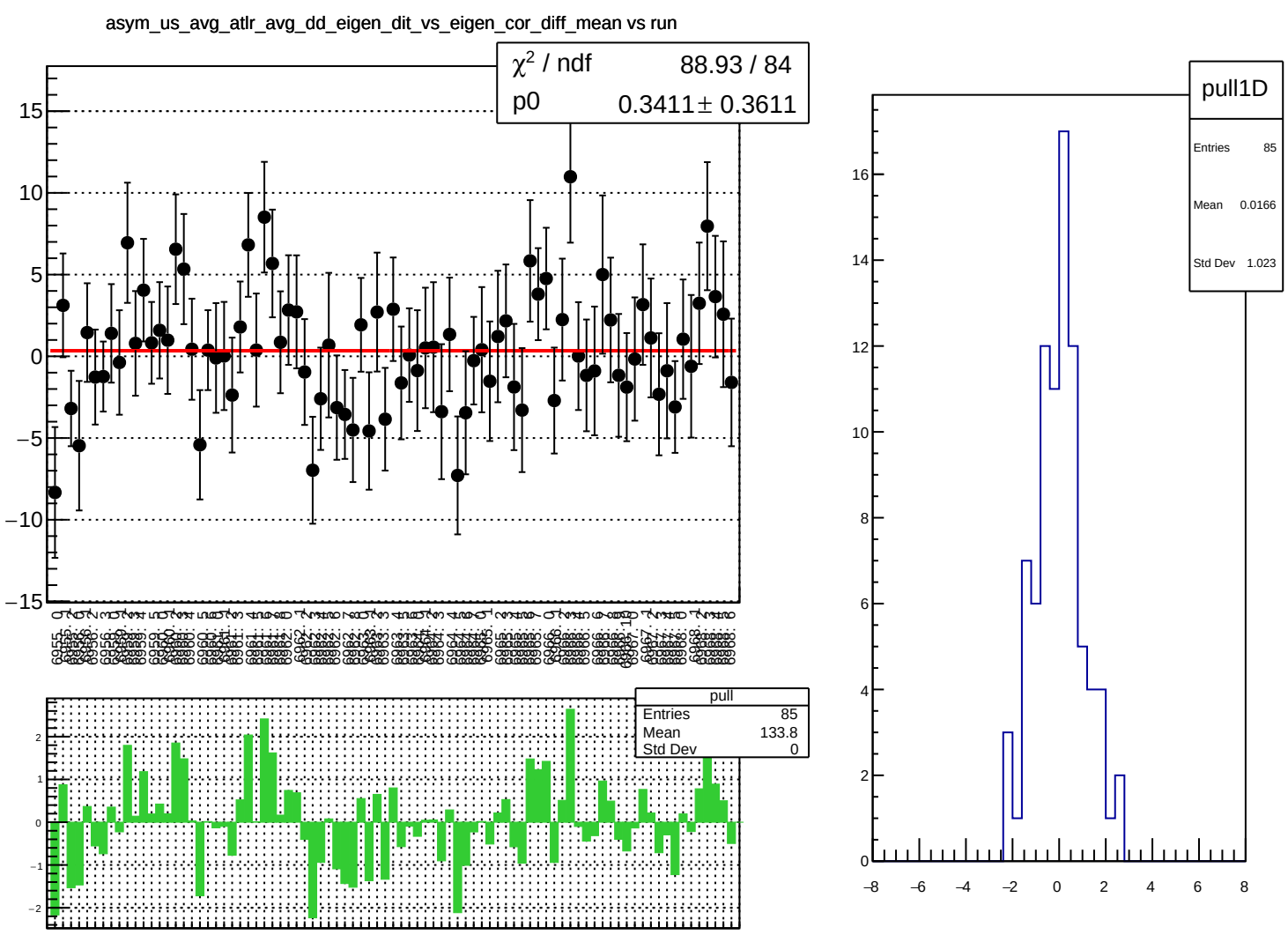

pull1D
Entries 85
Mean 0.01922
Std Dev 1.024

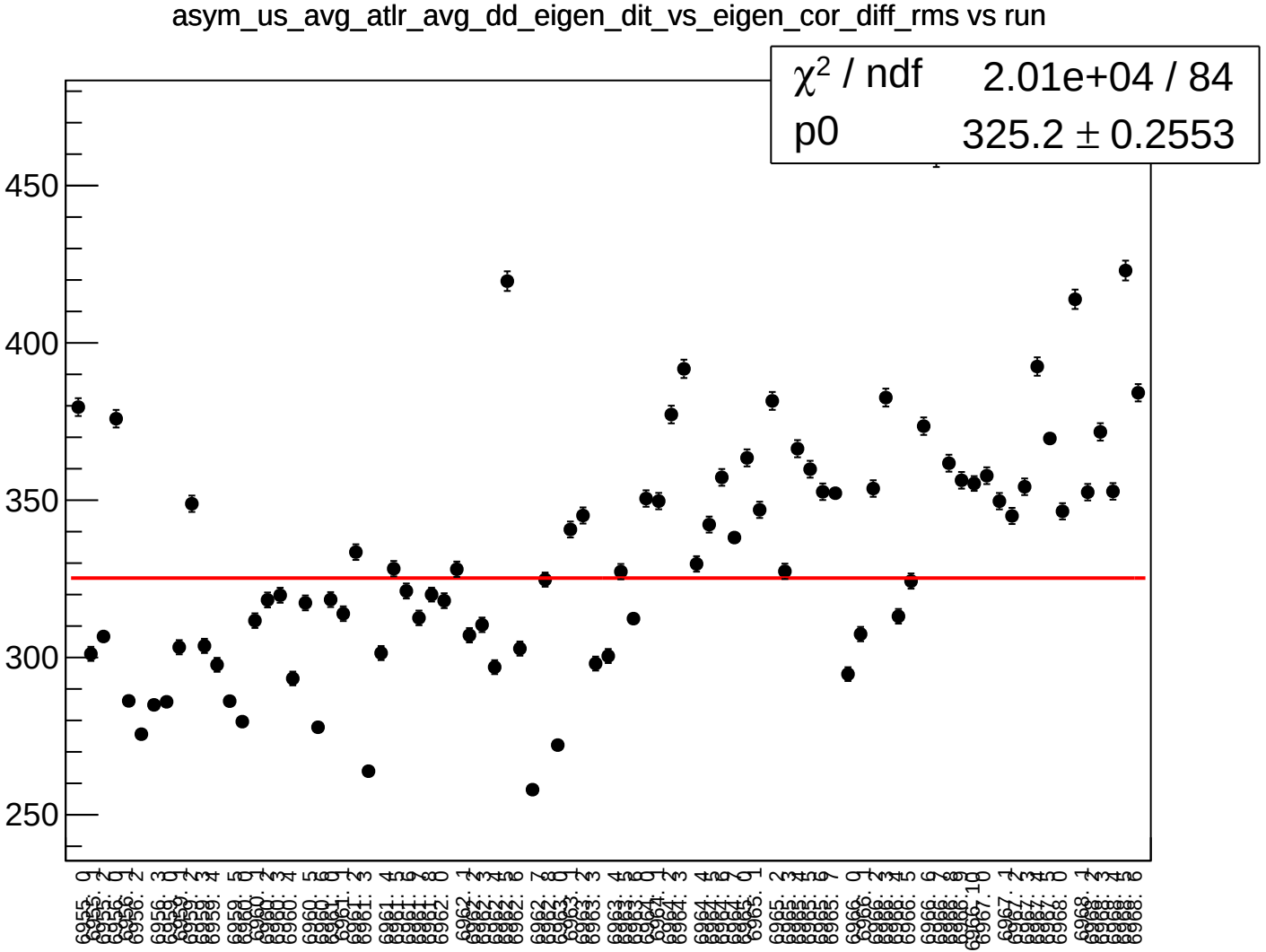

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4316 / 84
p0 0.003859 ± 3.015e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

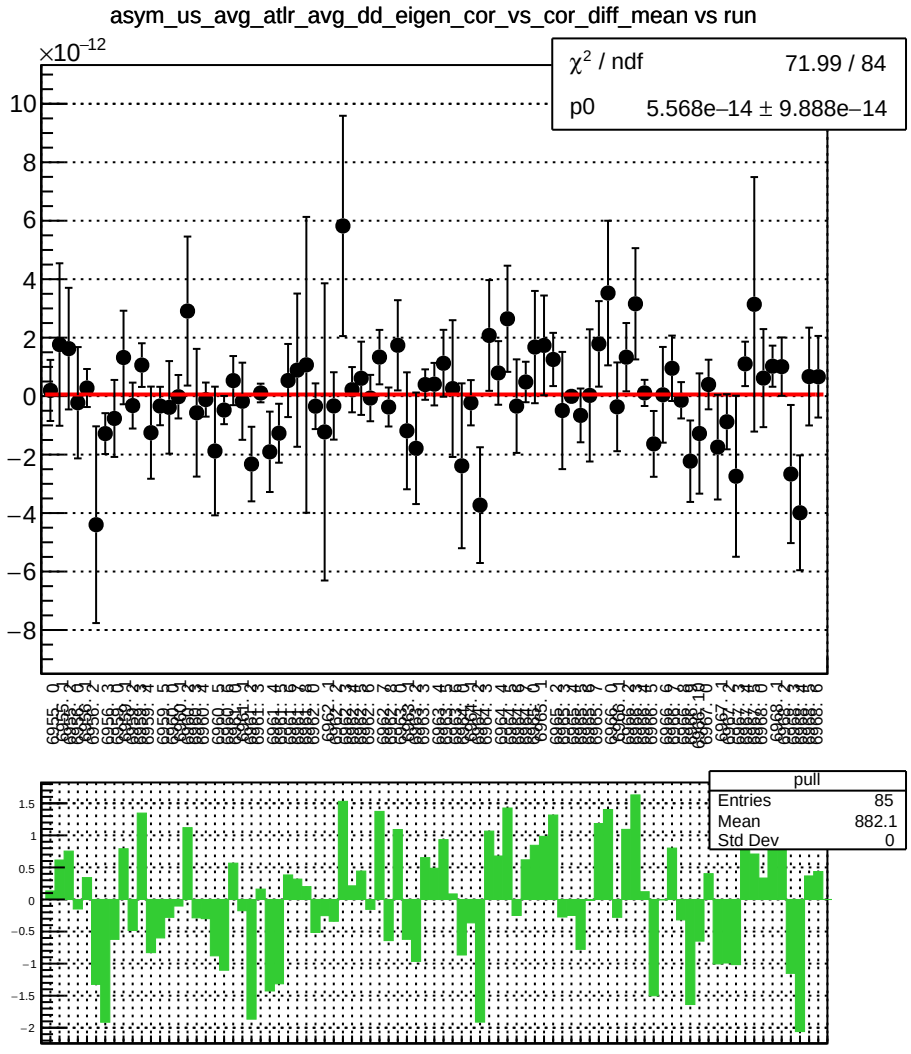

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.93 / 84
p0 0.3411 ± 0.3611
pull
Entries 85
Mean 133.8
Std Dev 0

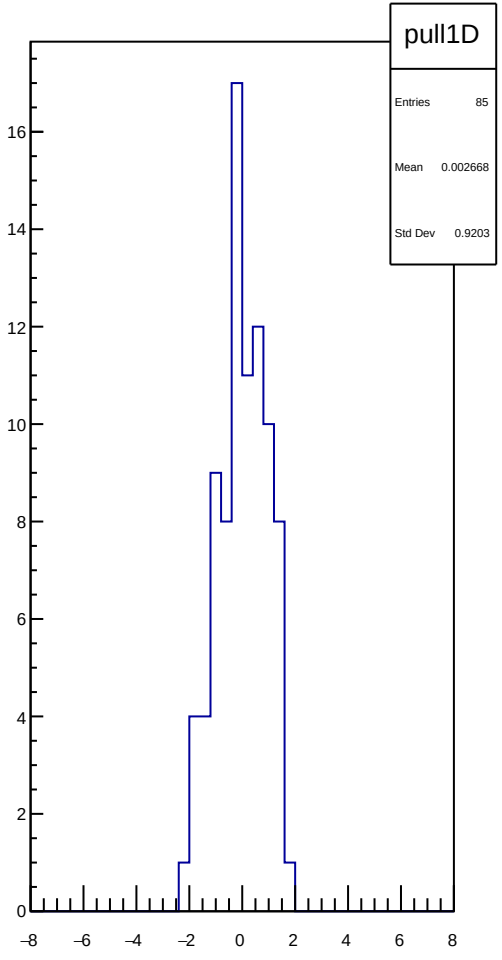

pull1D
Entries 85
Mean 0.0166
Std Dev 1.023

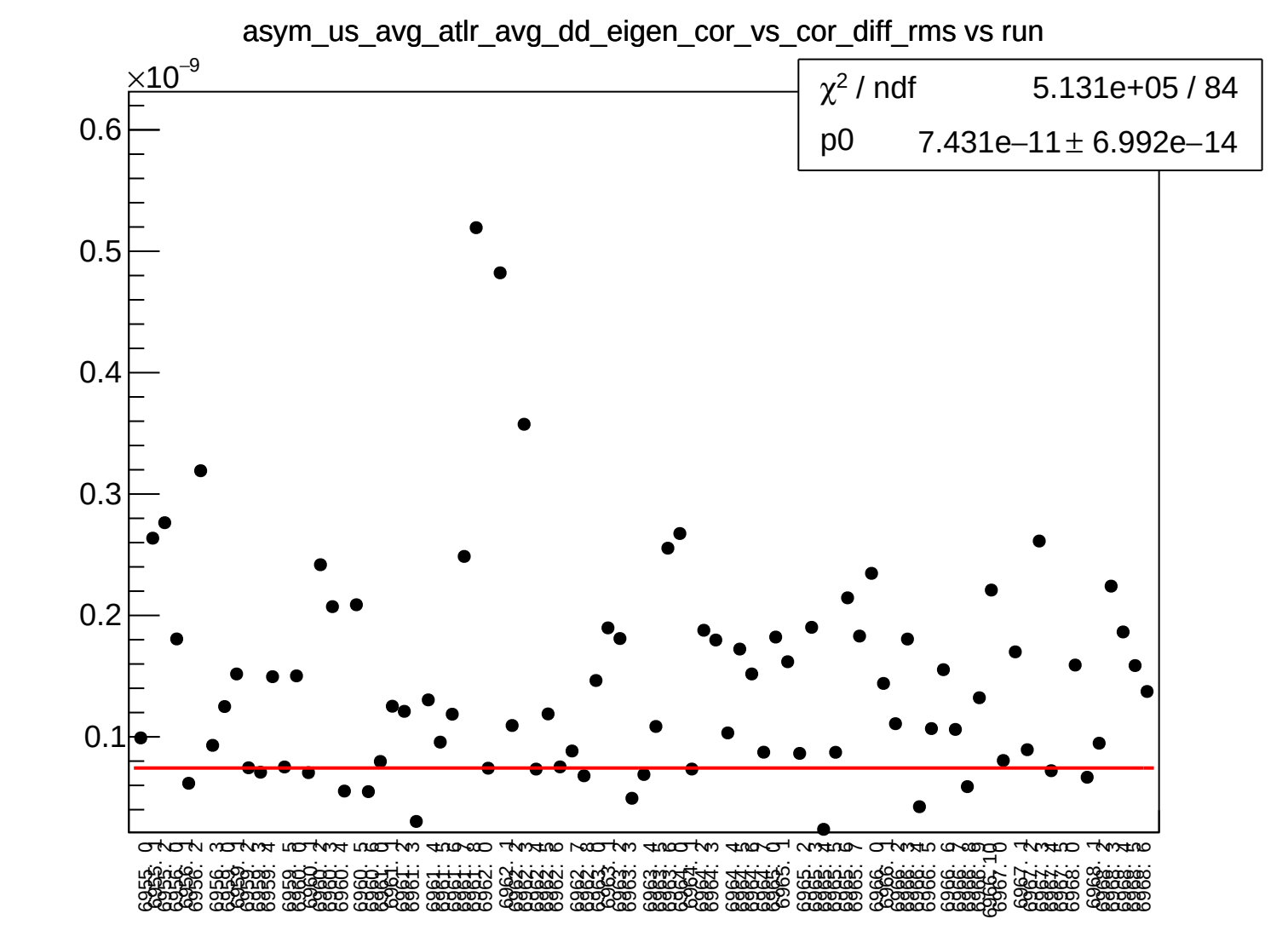

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.01e+04 / 84
p0 325.2 ± 0.2553
450
400
350
300
250

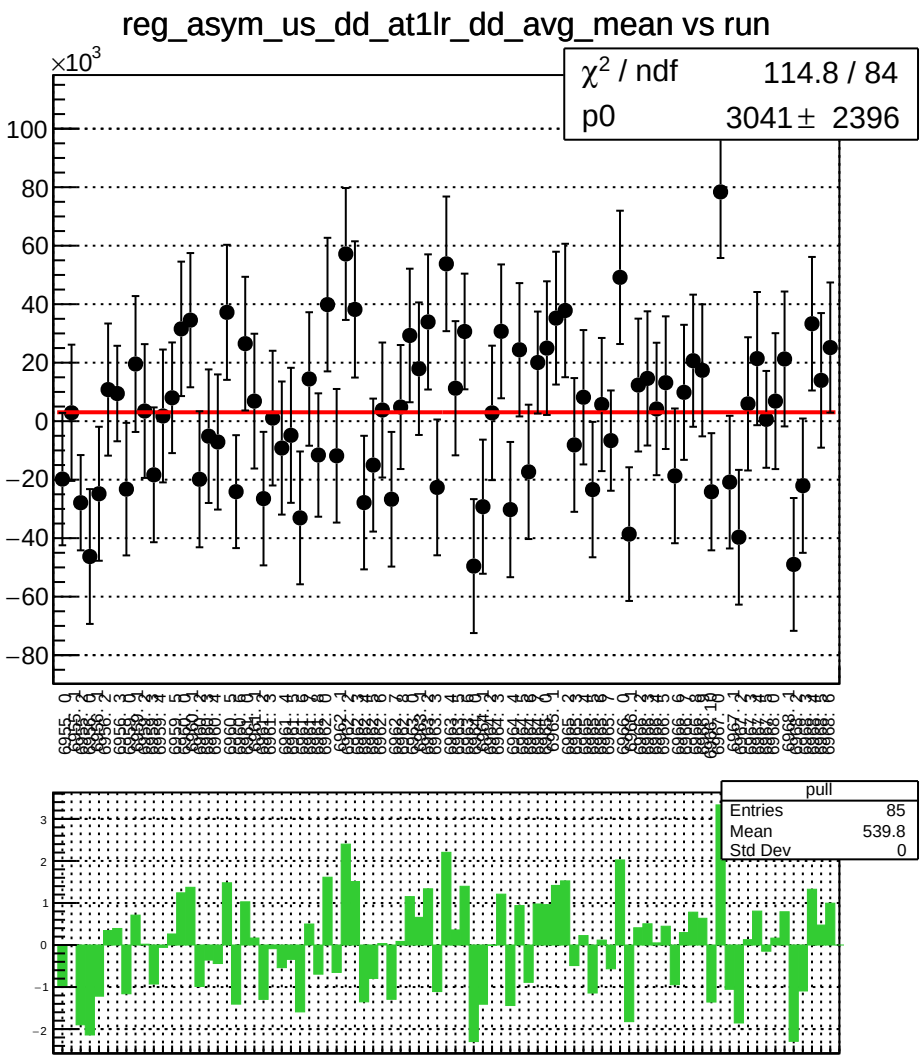

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.93 / 84
p0 0.3411± 0.3611
pull
Entries 85
Mean 133.8
Std Dev 0
pull1D
Entries 85
Mean 0.0166
Std Dev 1.023

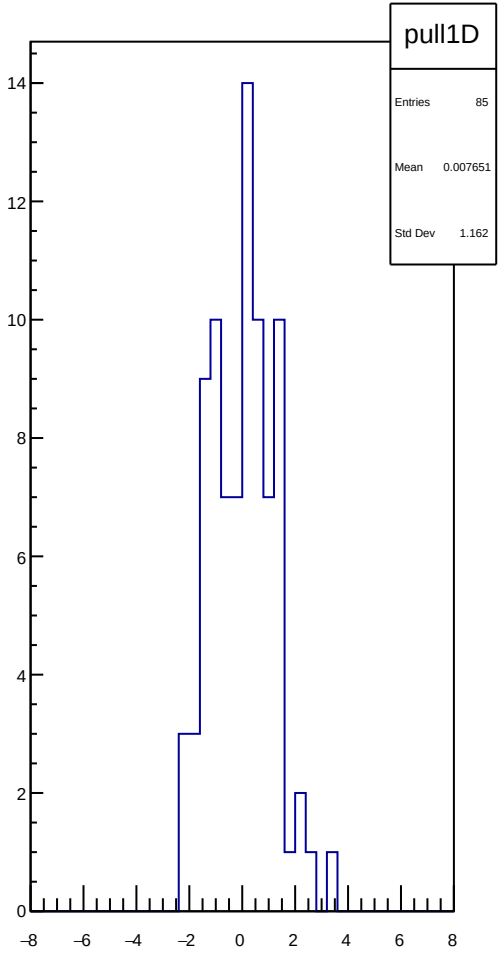

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.01e+04 / 84
p0 325.2 ± 0.2553
450
400
350
300
250

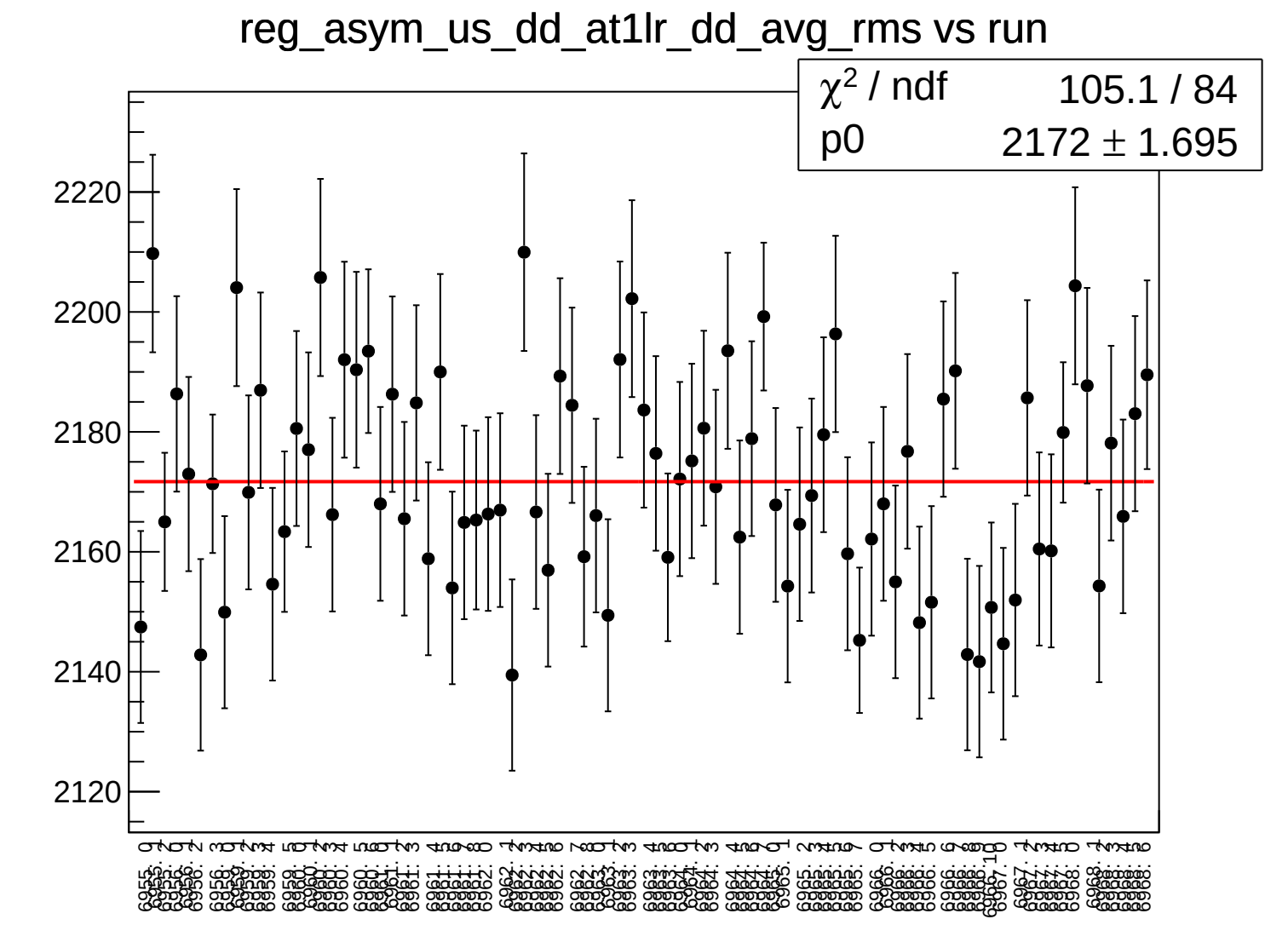

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.99 / 84
p0 5.568e−14 ± 9.888e−14
pull
Entries 85
Mean 882.1
Std Dev 0

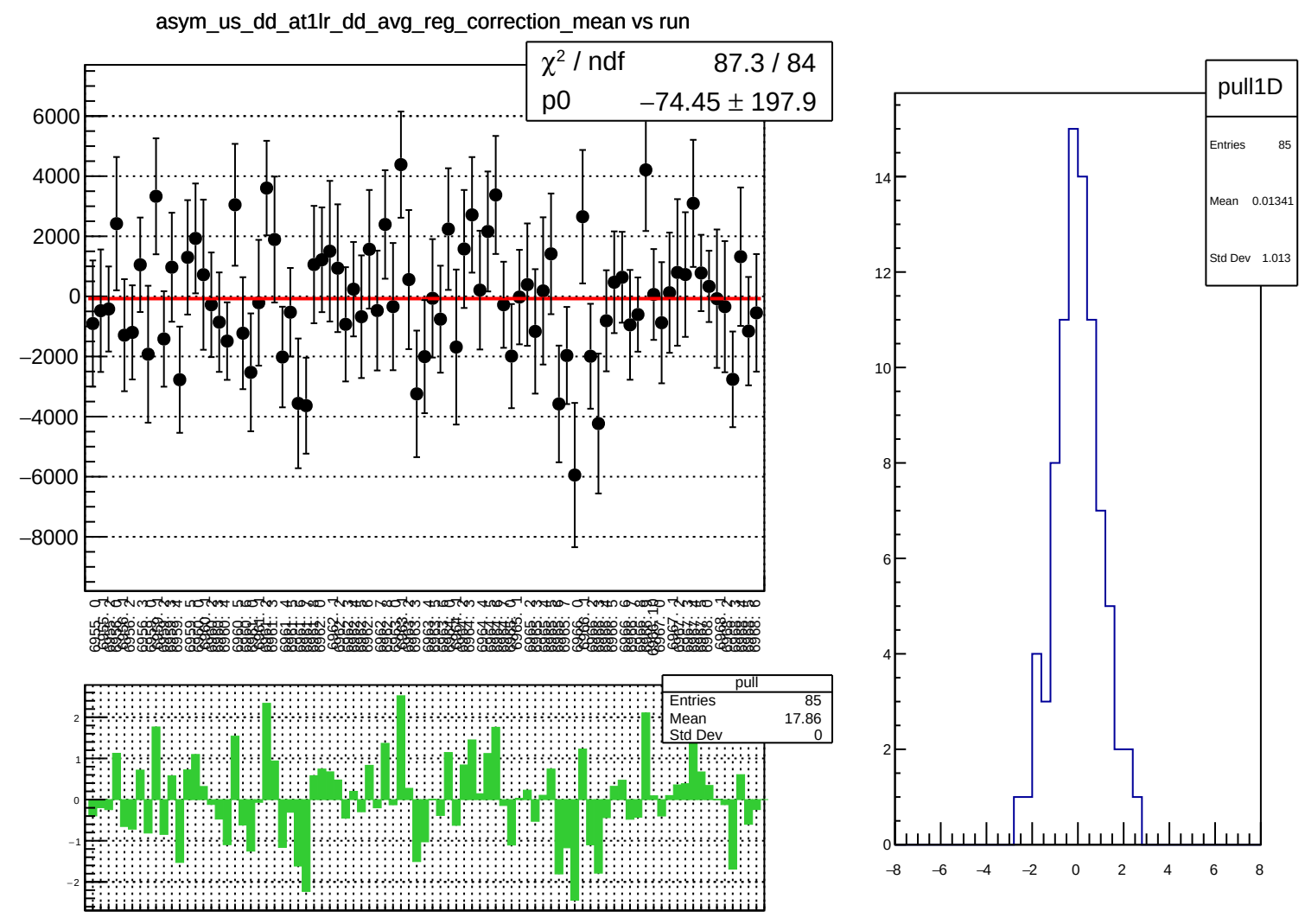

pull1D
Entries 85
Mean 0.002668
Std Dev 0.9203

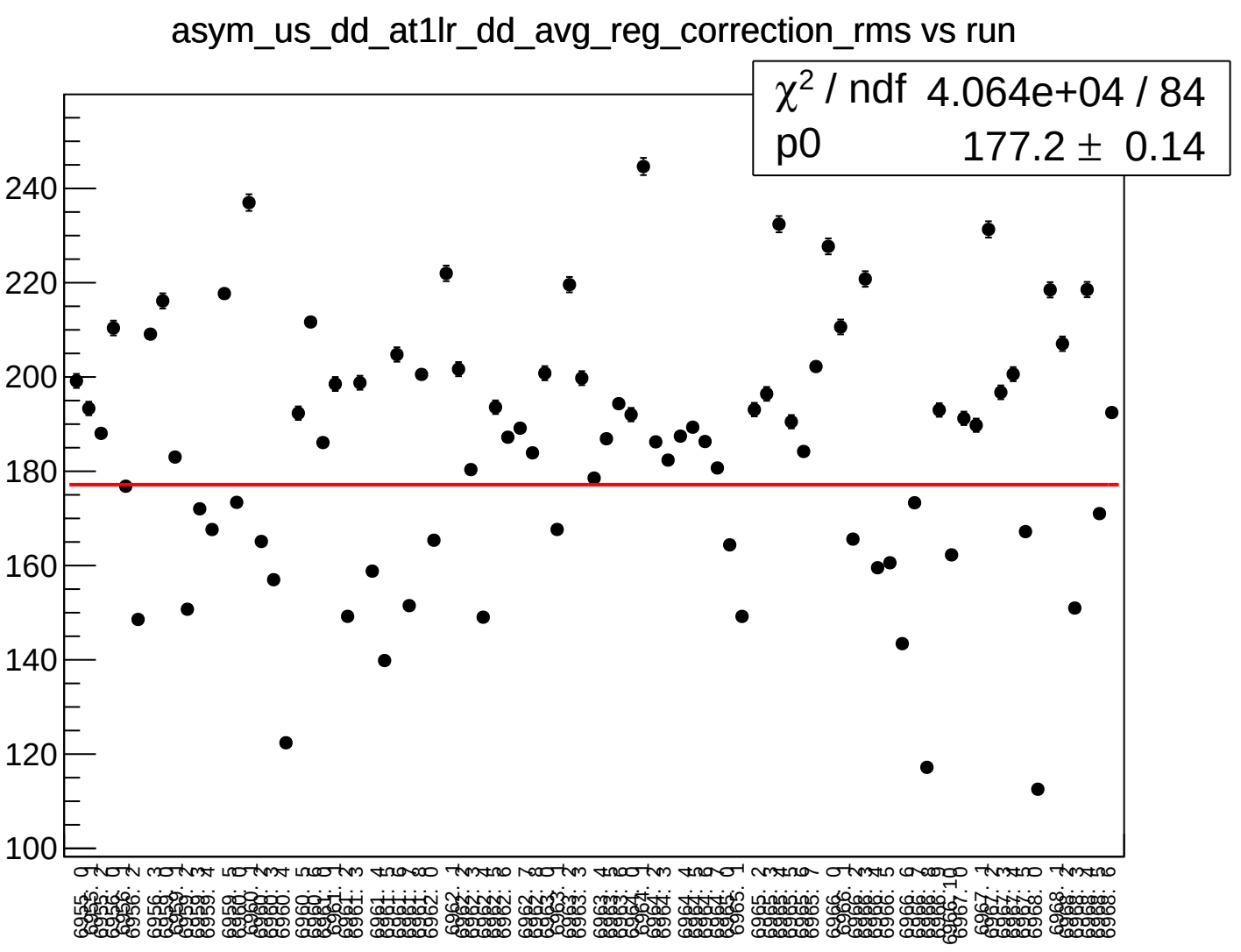

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.131e+05 / 84
p0 7.431e−11 ± 6.992e−14
0.6
0.5
0.4
0.3
0.2
0.1

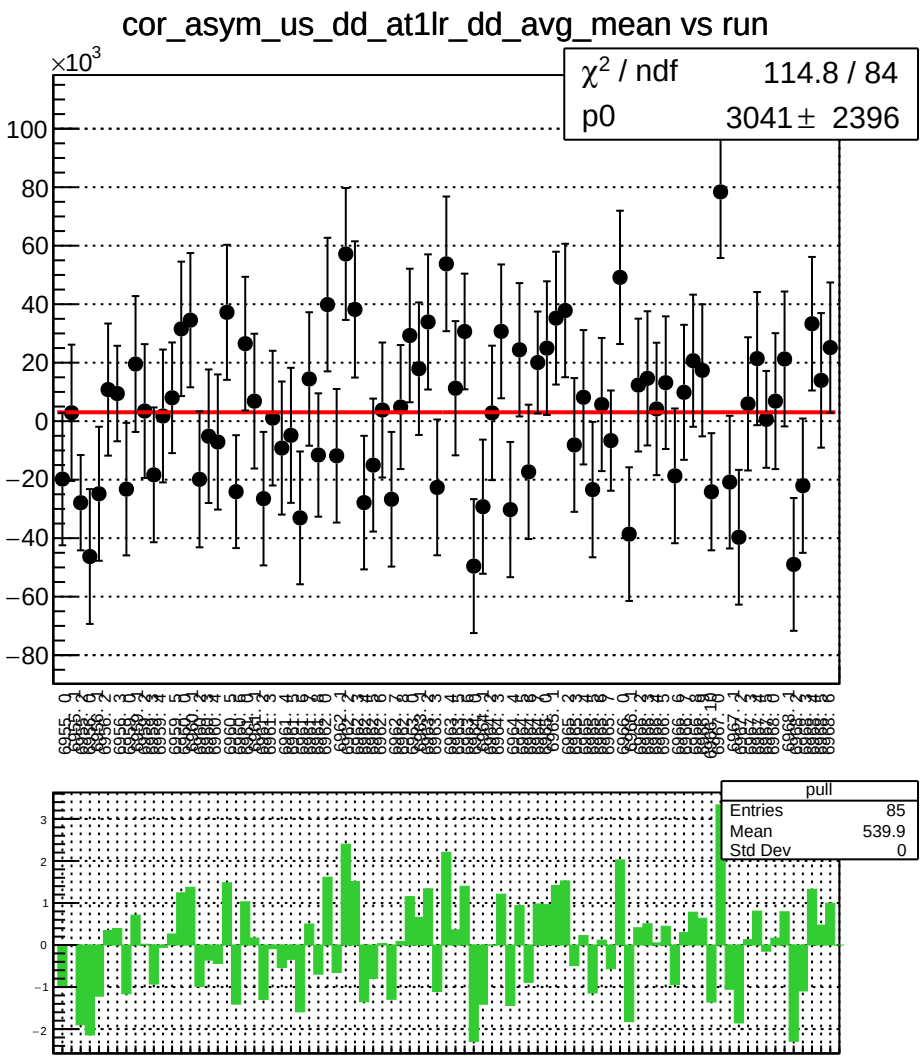

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 114.8 / 84
p0 3041 ± 2396
pull
Entries 85
Mean 539.8
Std Dev 0

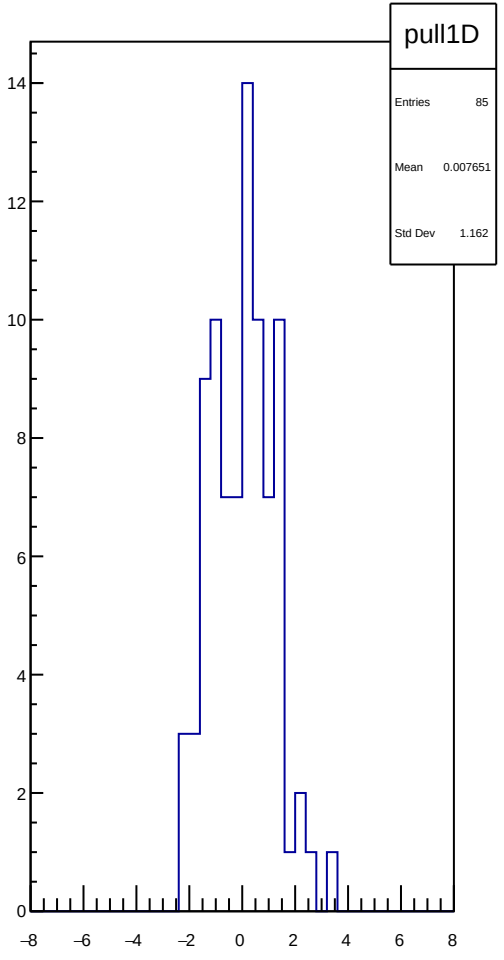

pull1D
Entries 85
Mean 0.007651
Std Dev 1.162

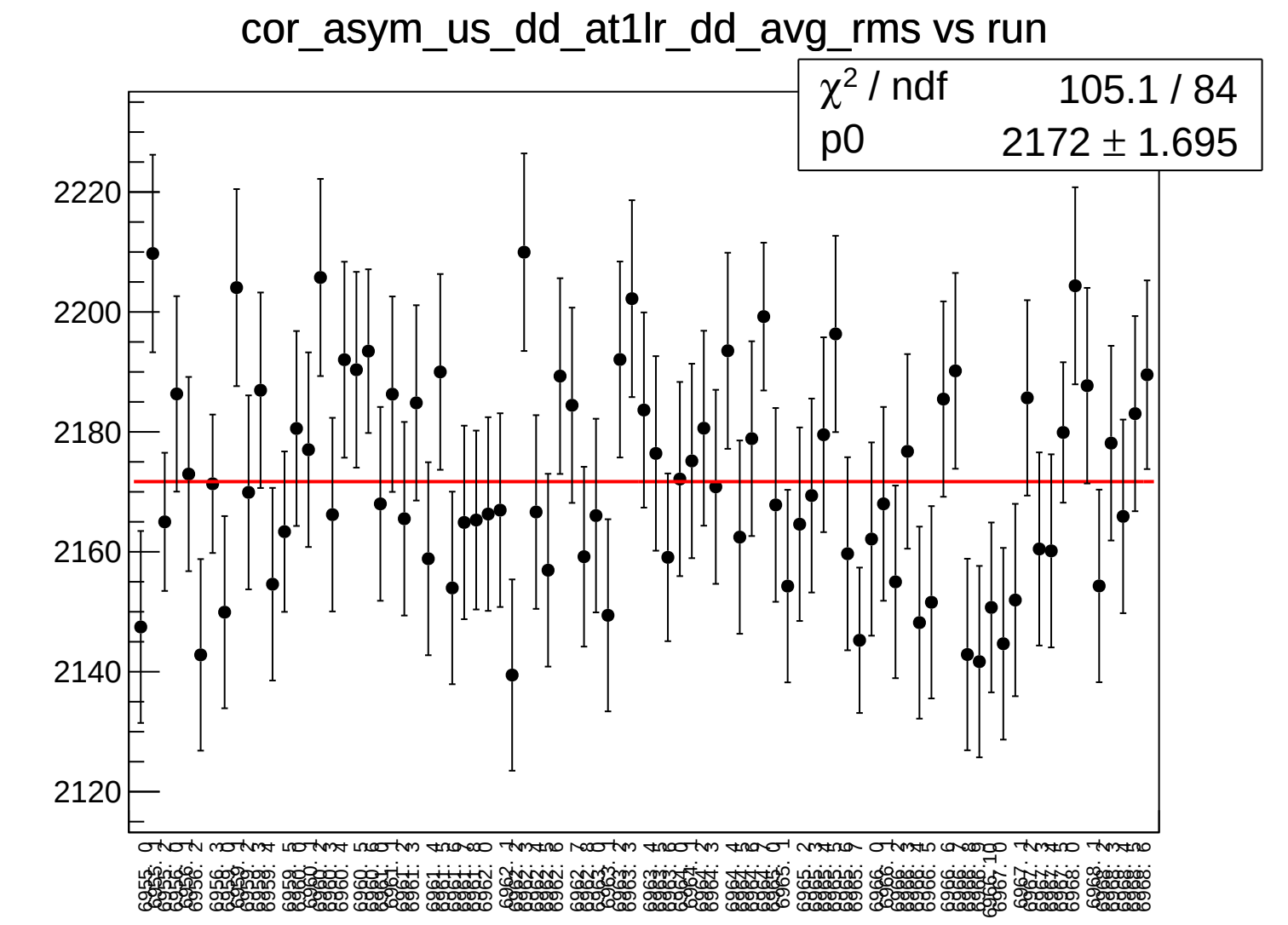

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 105.1 / 84
p0 2172 ± 1.695
2220
2200
2180
2160
2140
2120

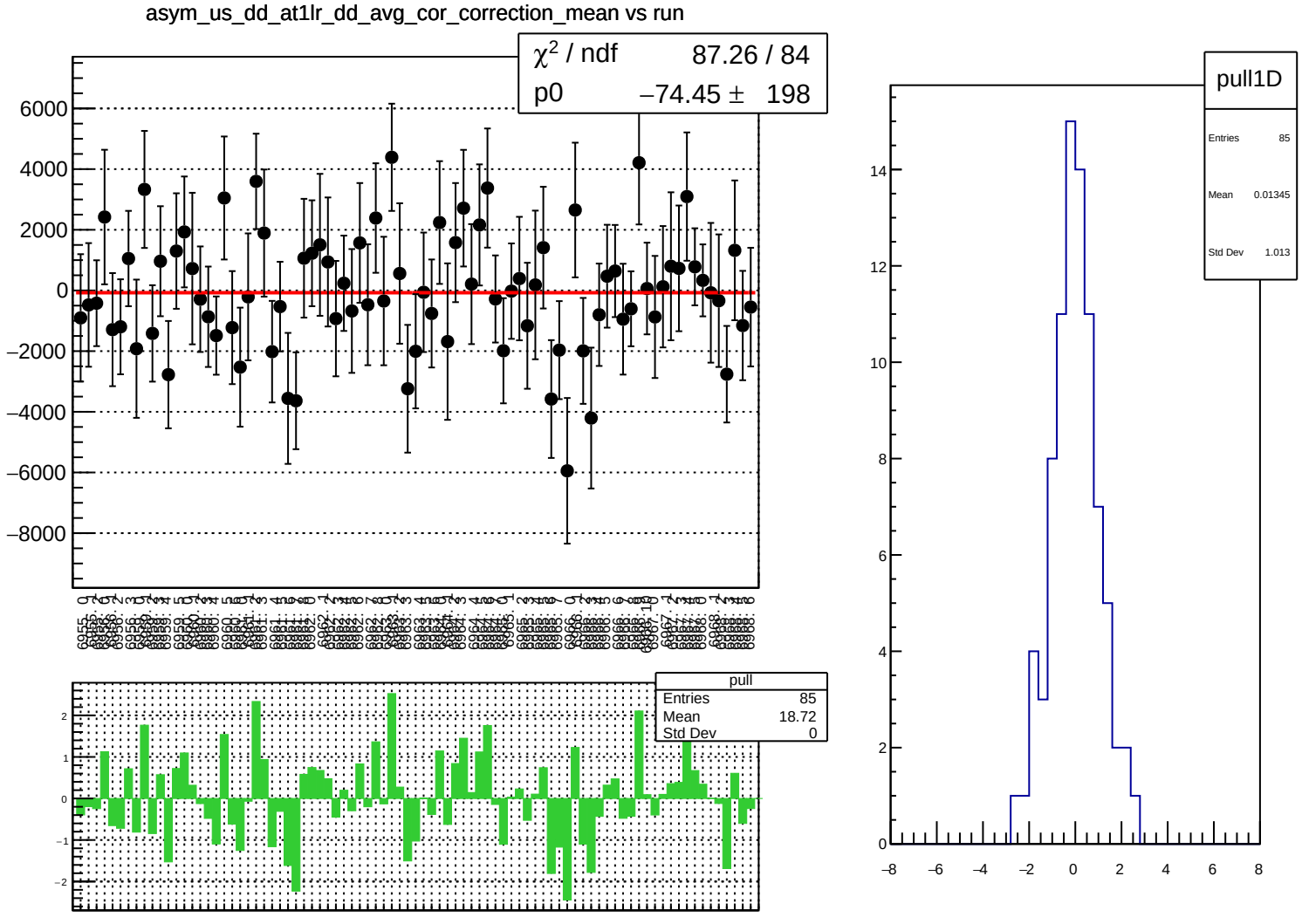

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 87.3 / 84
p0 −74.45 ± 197.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 85
Mean 17.86
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01341
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

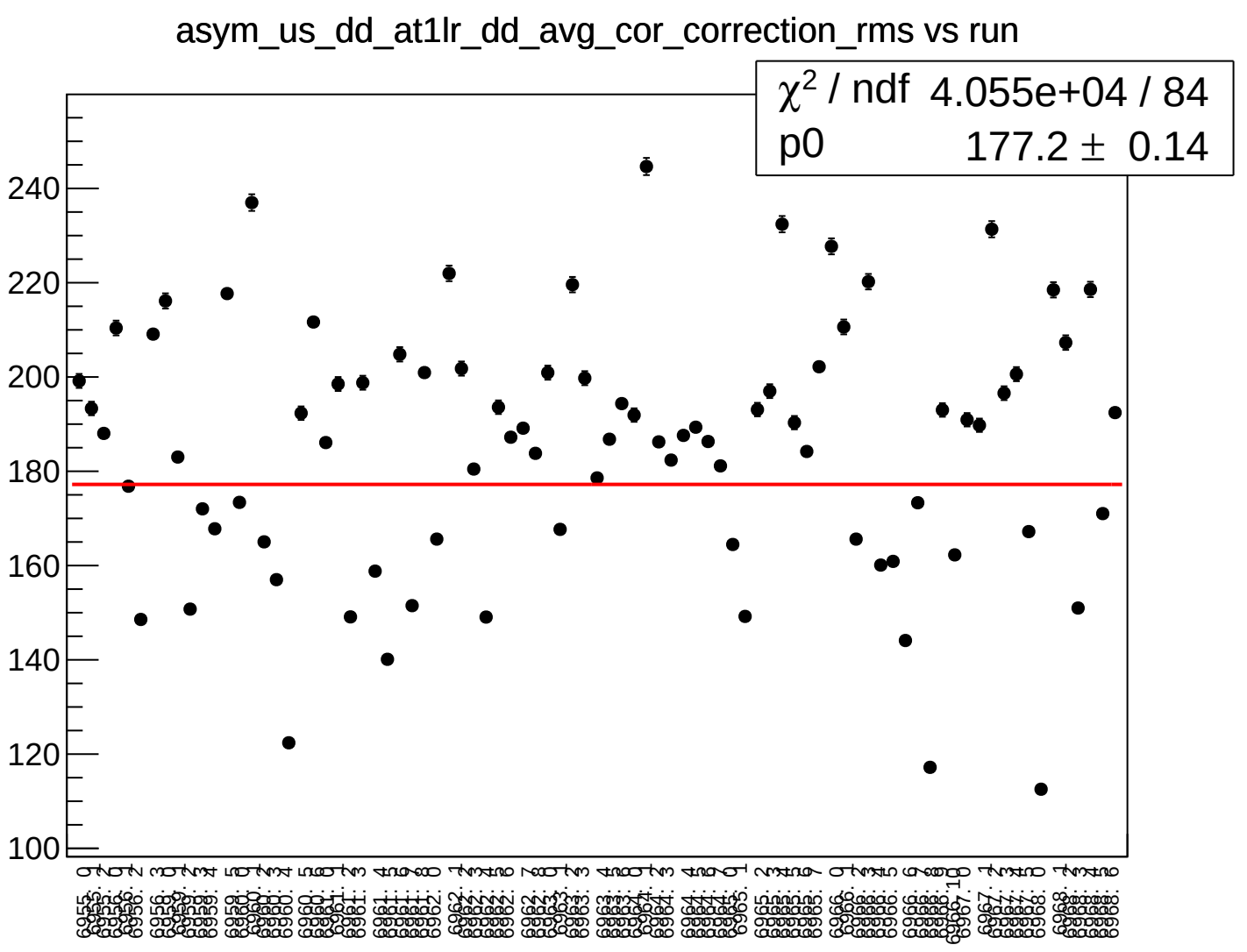

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 4.064e+04 / 84
p0 177.2 ± 0.14
240
220
200
180
160
140
120
100

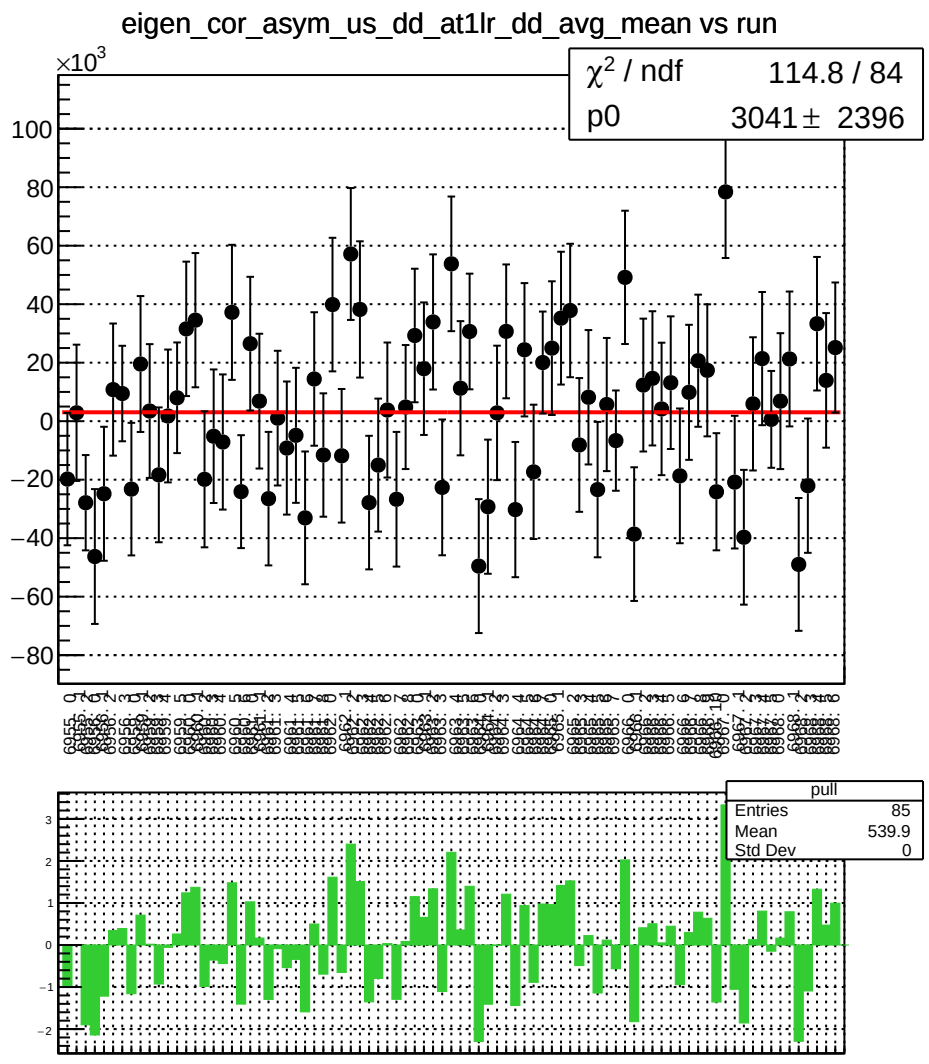

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 114.8 / 84
p0 3041 ± 2396
×10³
pull
Entries 85
Mean 539.9
Std Dev 0

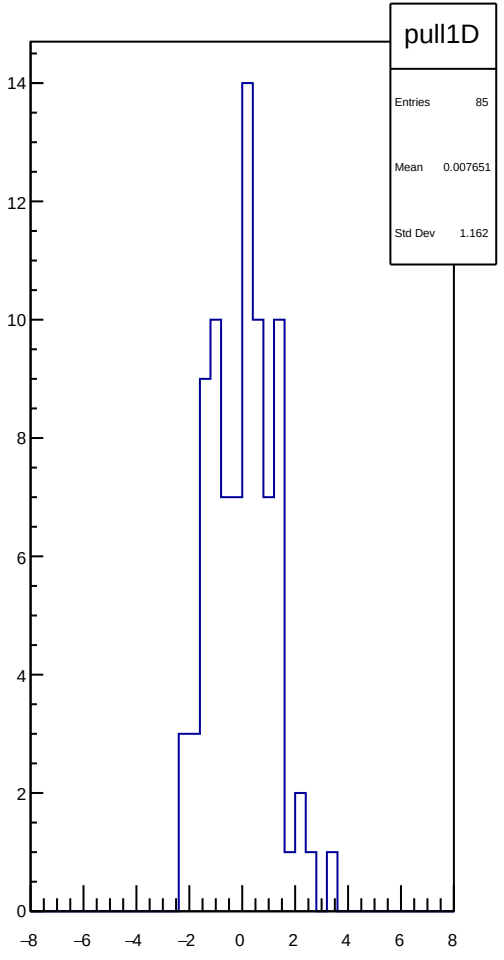

pull1D
Entries 85
Mean 0.007651
Std Dev 1.162

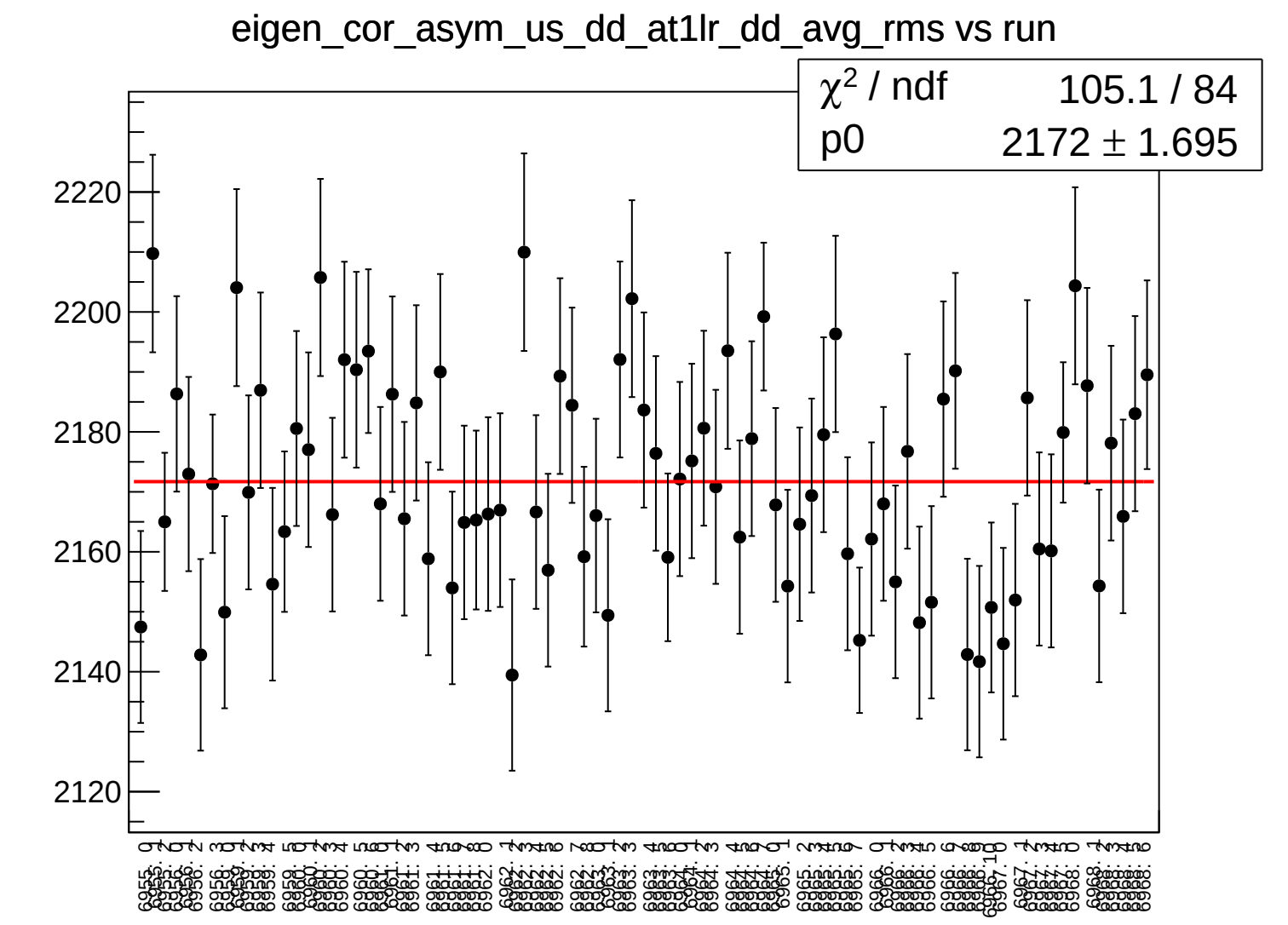

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 105.1 / 84
p0 2172 ± 1.695
2220
2200
2180
2160
2140
2120

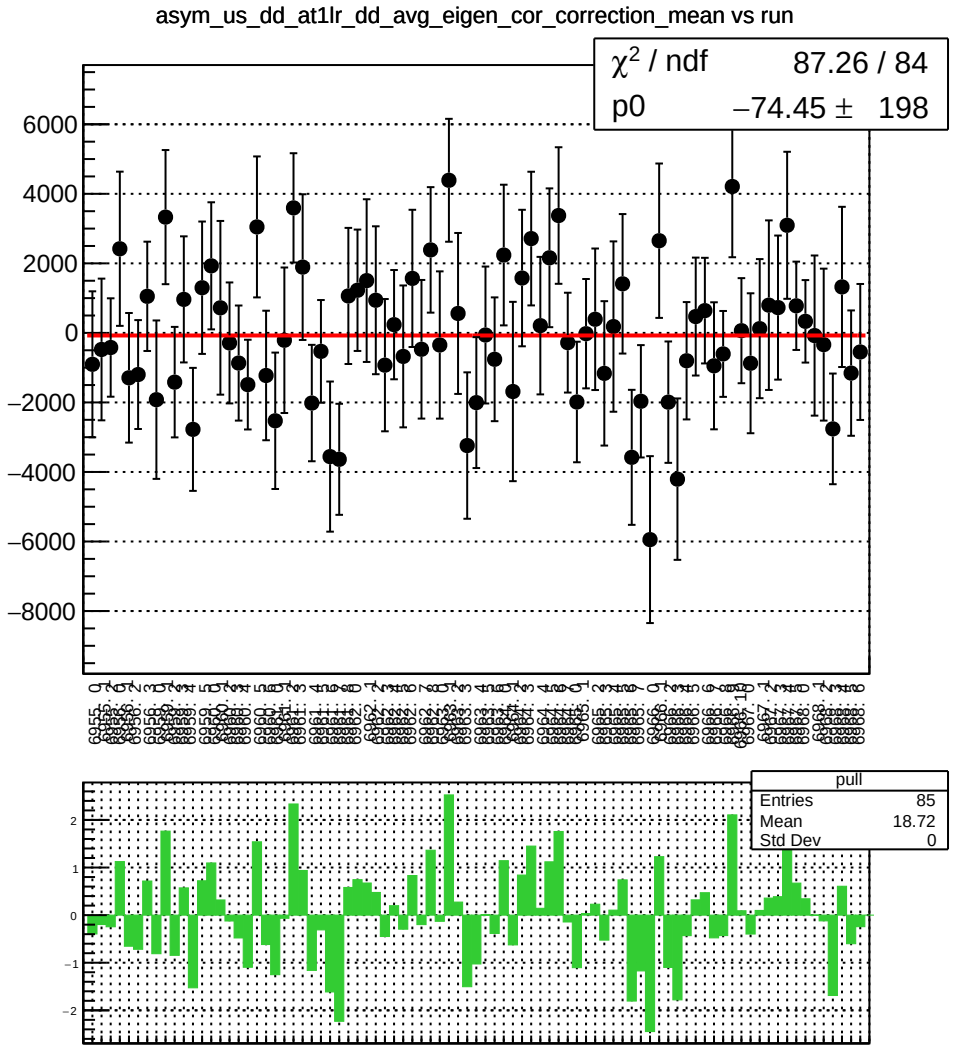

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 87.26 / 84
p0 −74.45 ± 198
pull
Entries 85
Mean 18.72
Std Dev 0
pull1D
Entries 85
Mean 0.01345
Std Dev 1.013

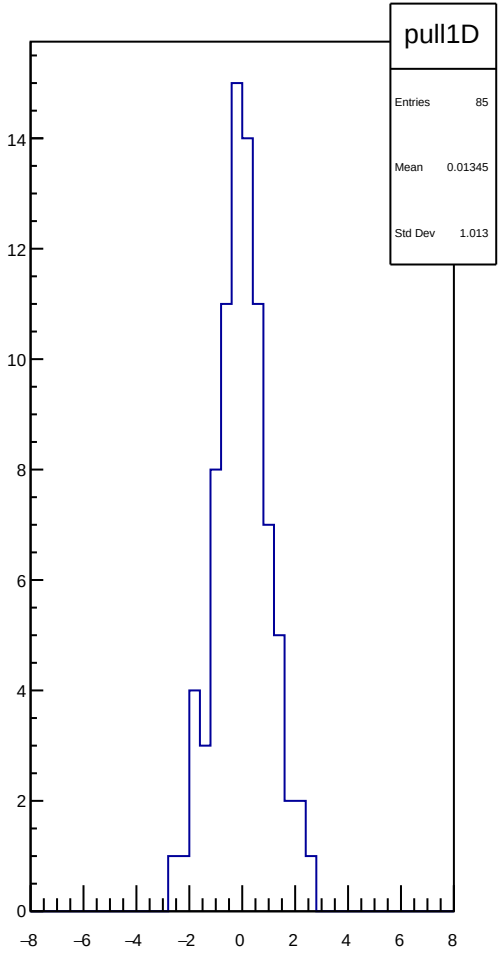

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 4.055e+04 / 84
p0 177.2 ± 0.14
240
220
200
180
160
140
120
100

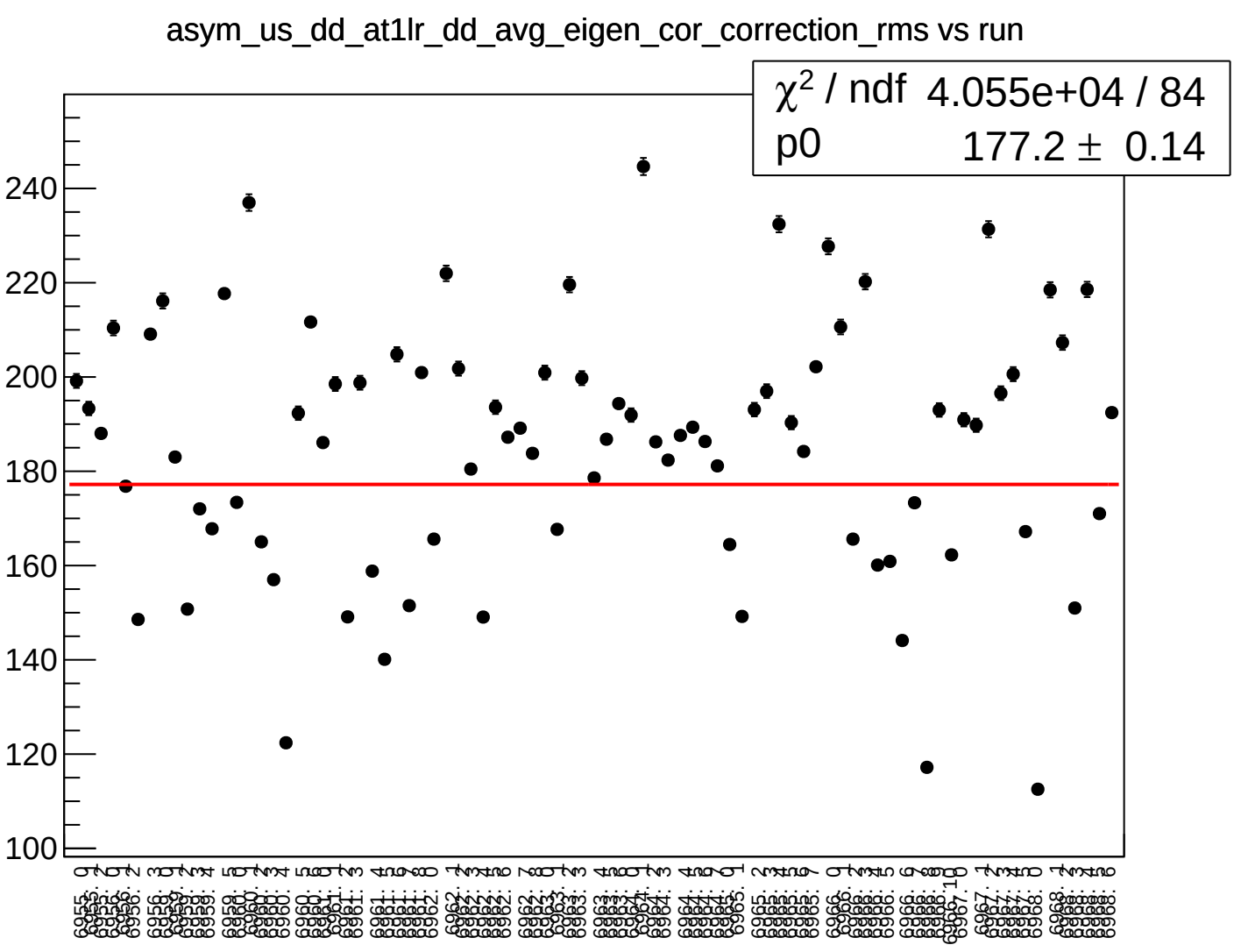

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 114.8 / 84
p0 3041 ± 2396
pull
Entries 85
Mean 539.9
Std Dev 0

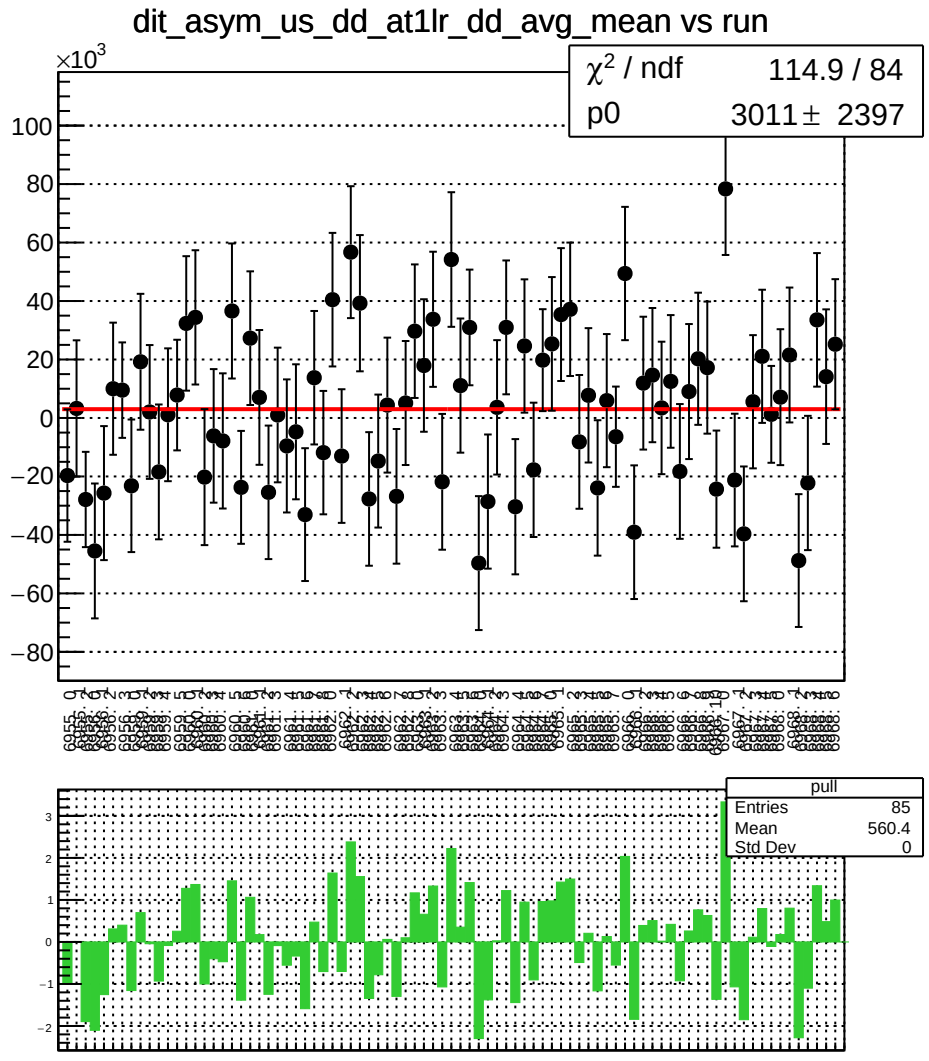

pull1D
Entries 85
Mean 0.007651
Std Dev 1.162

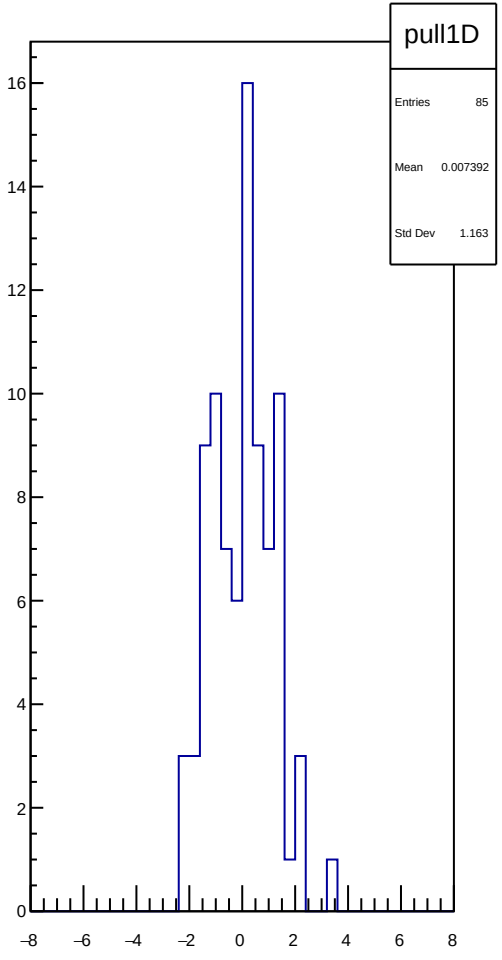

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 105.1 / 84
p0 2172 ± 1.695
2220
2200
2180
2160
2140
2120

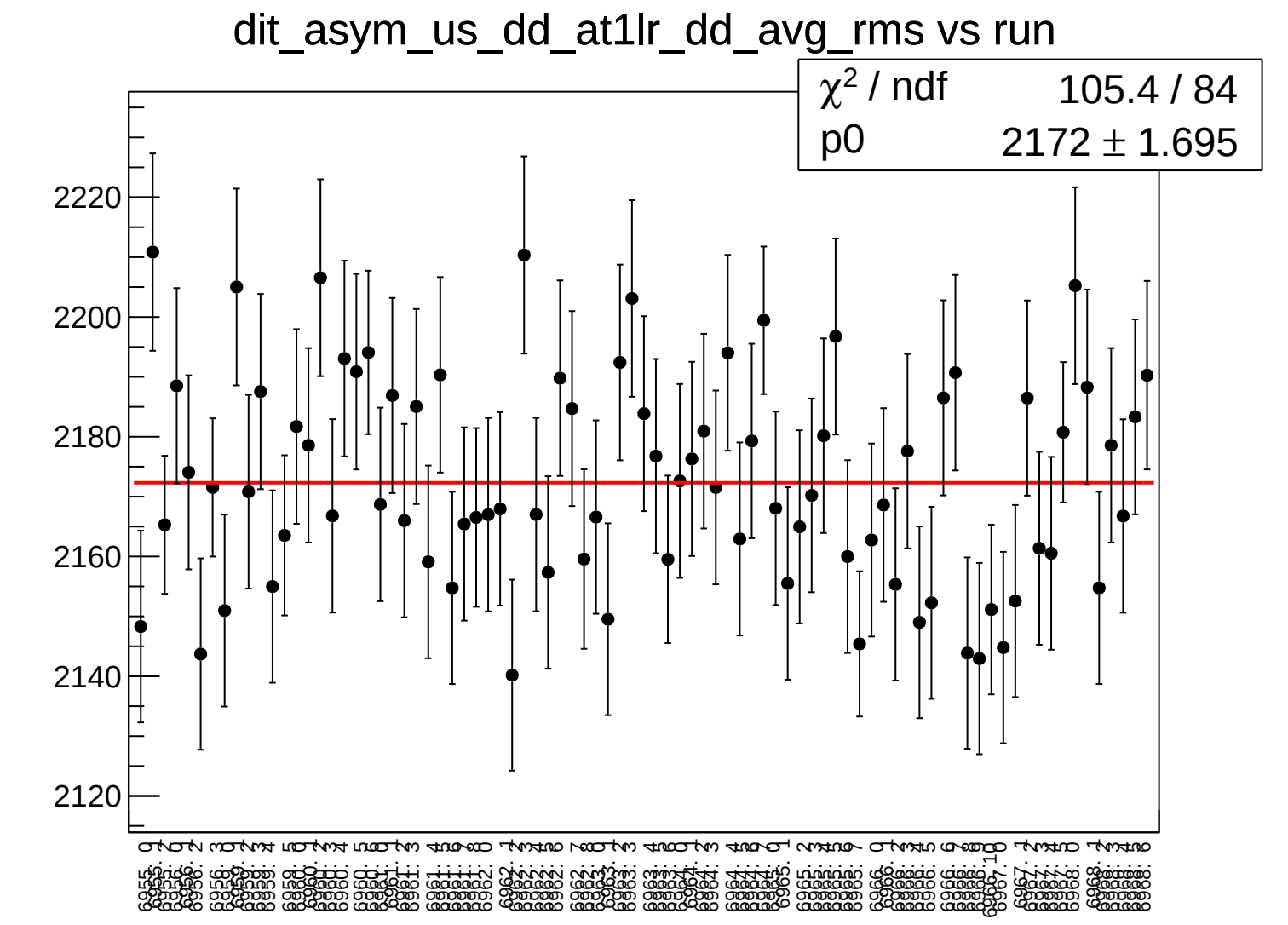

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.26 / 84
p0 −74.45 ± 198
pull
Entries 85
Mean 18.72
Std Dev 0

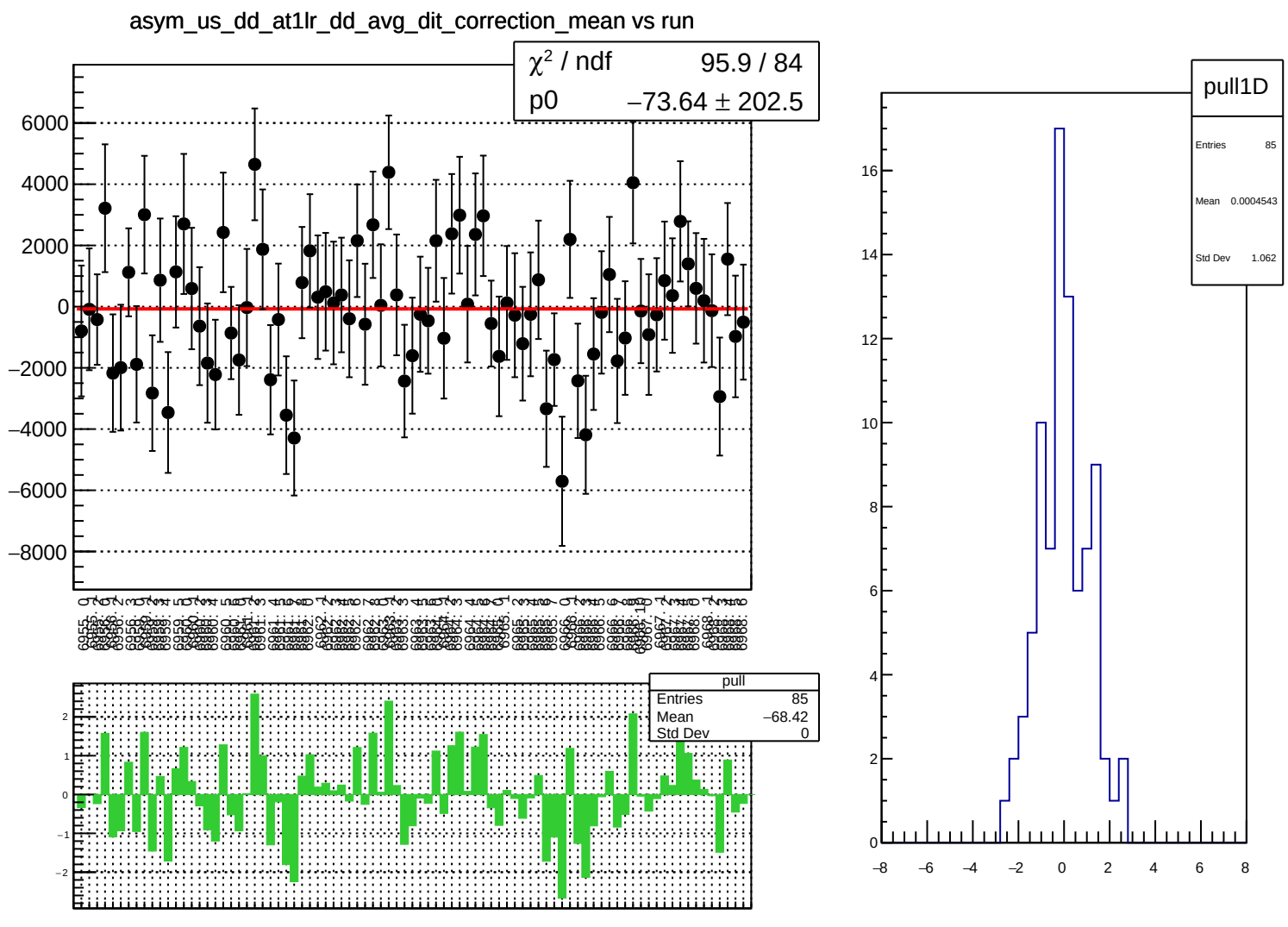

pull1D
Entries 85
Mean 0.01345
Std Dev 1.013

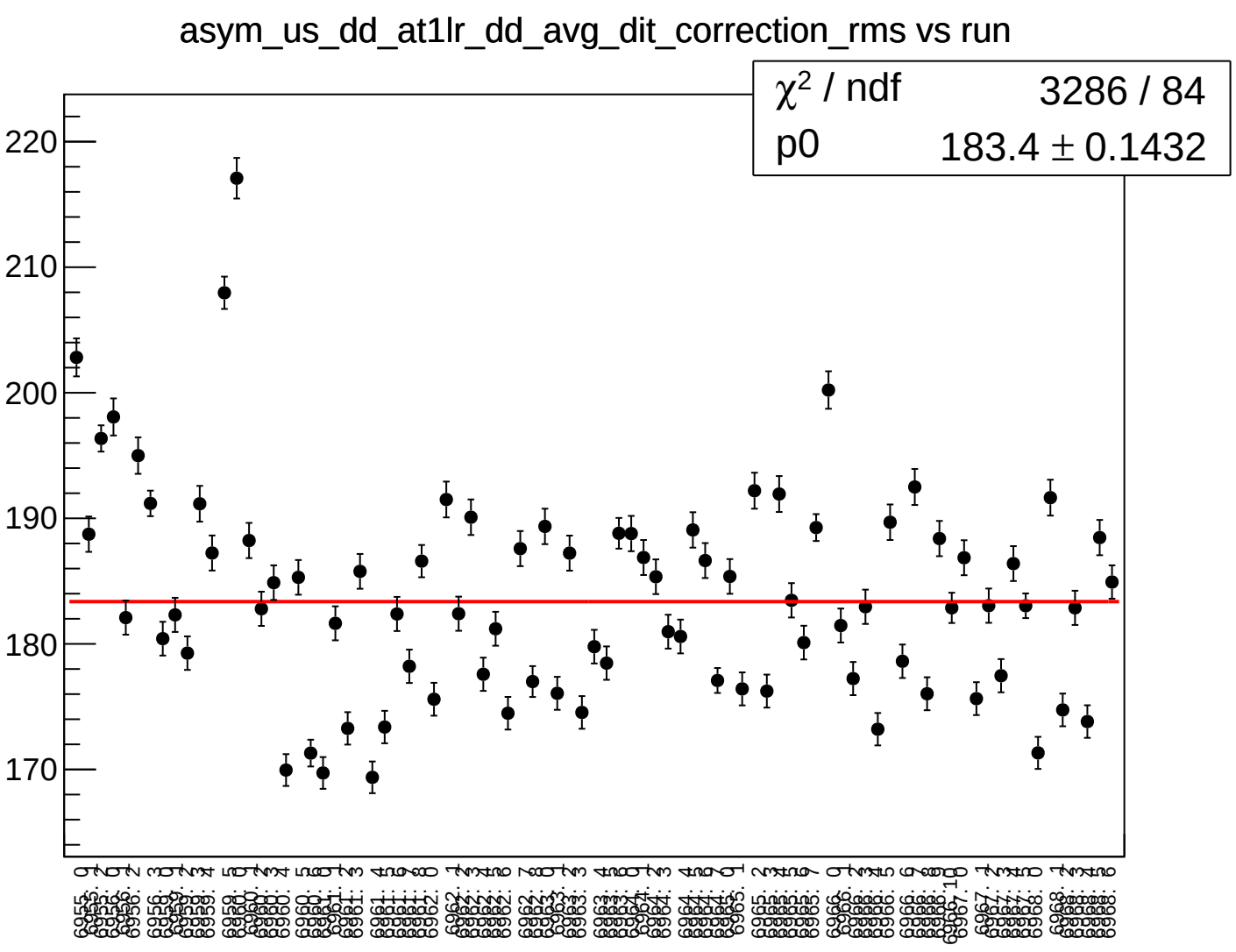

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.055e+04 / 84
p0 177.2 ± 0.14
240
220
200
180
160
140
120
100

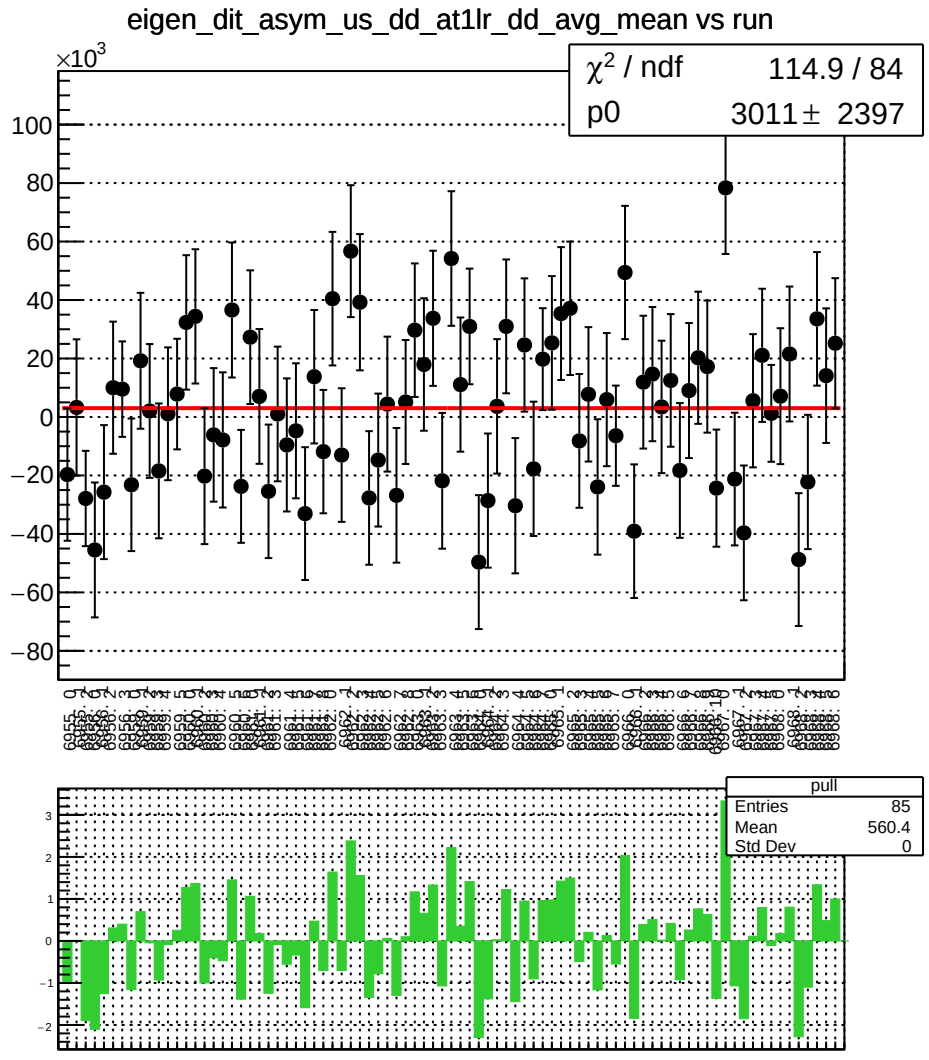

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 114.9 / 84
p0 3011 ± 2397
×10³
pull
Entries 85
Mean 560.4
Std Dev 0

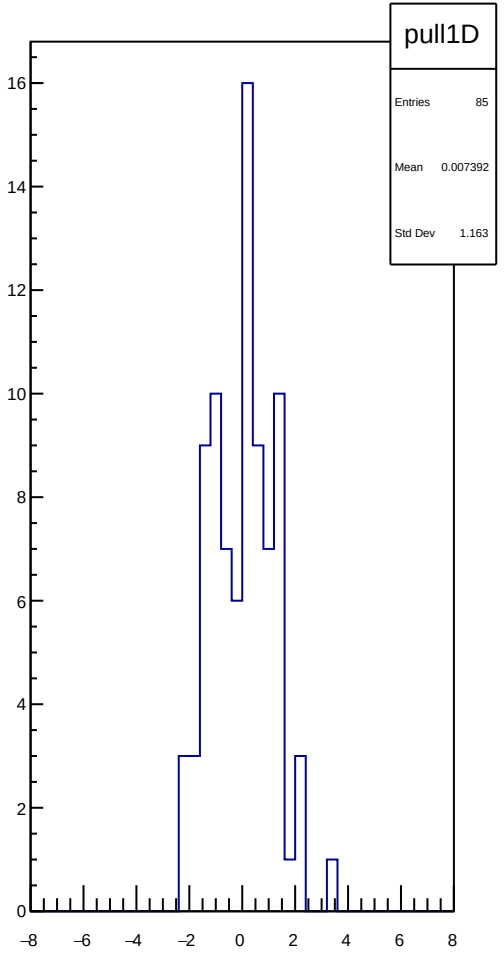

pull1D
Entries 85
Mean 0.007392
Std Dev 1.163

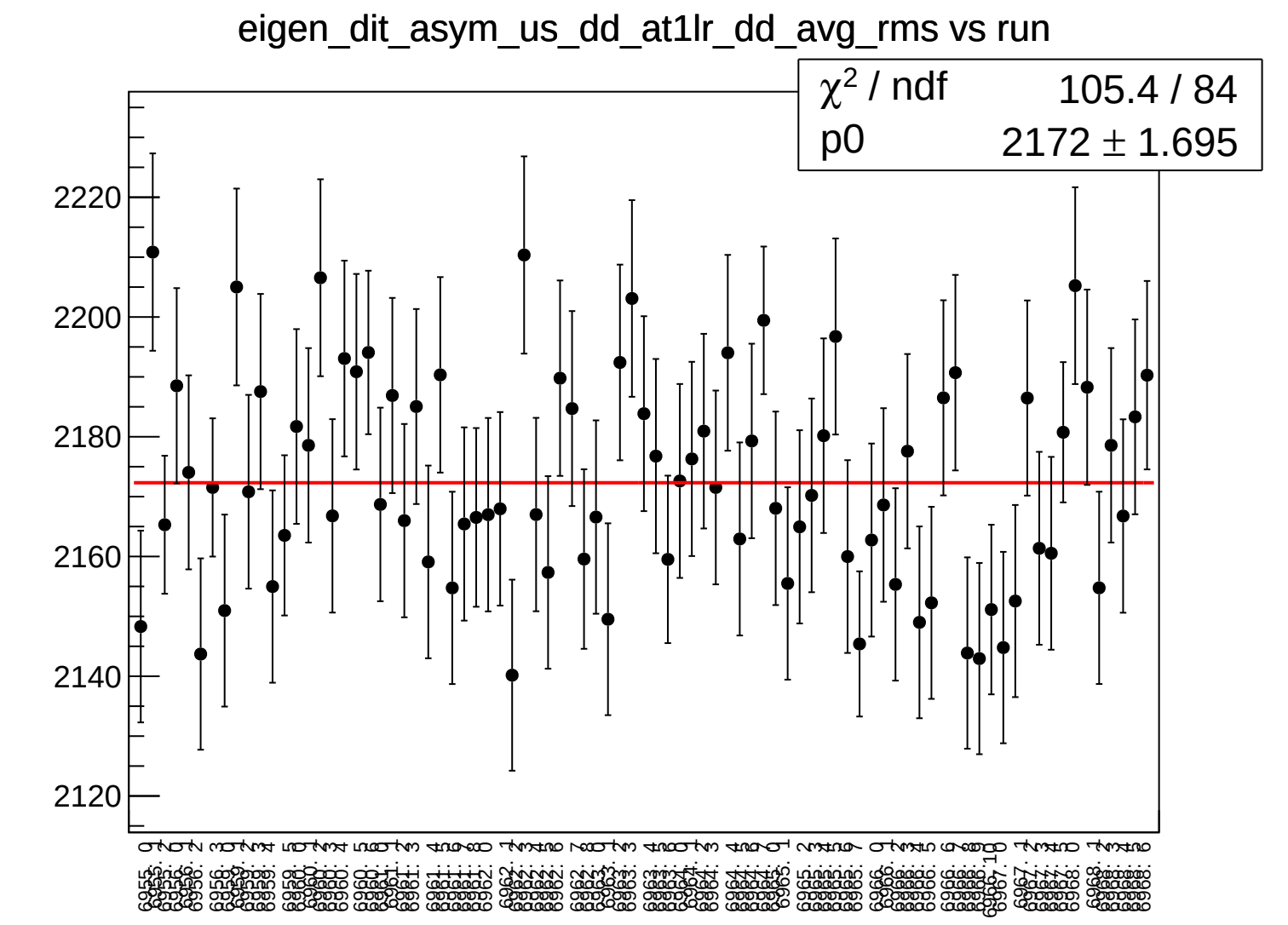

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 105.4 / 84
p0 2172 ± 1.695
2220
2200
2180
2160
2140
2120

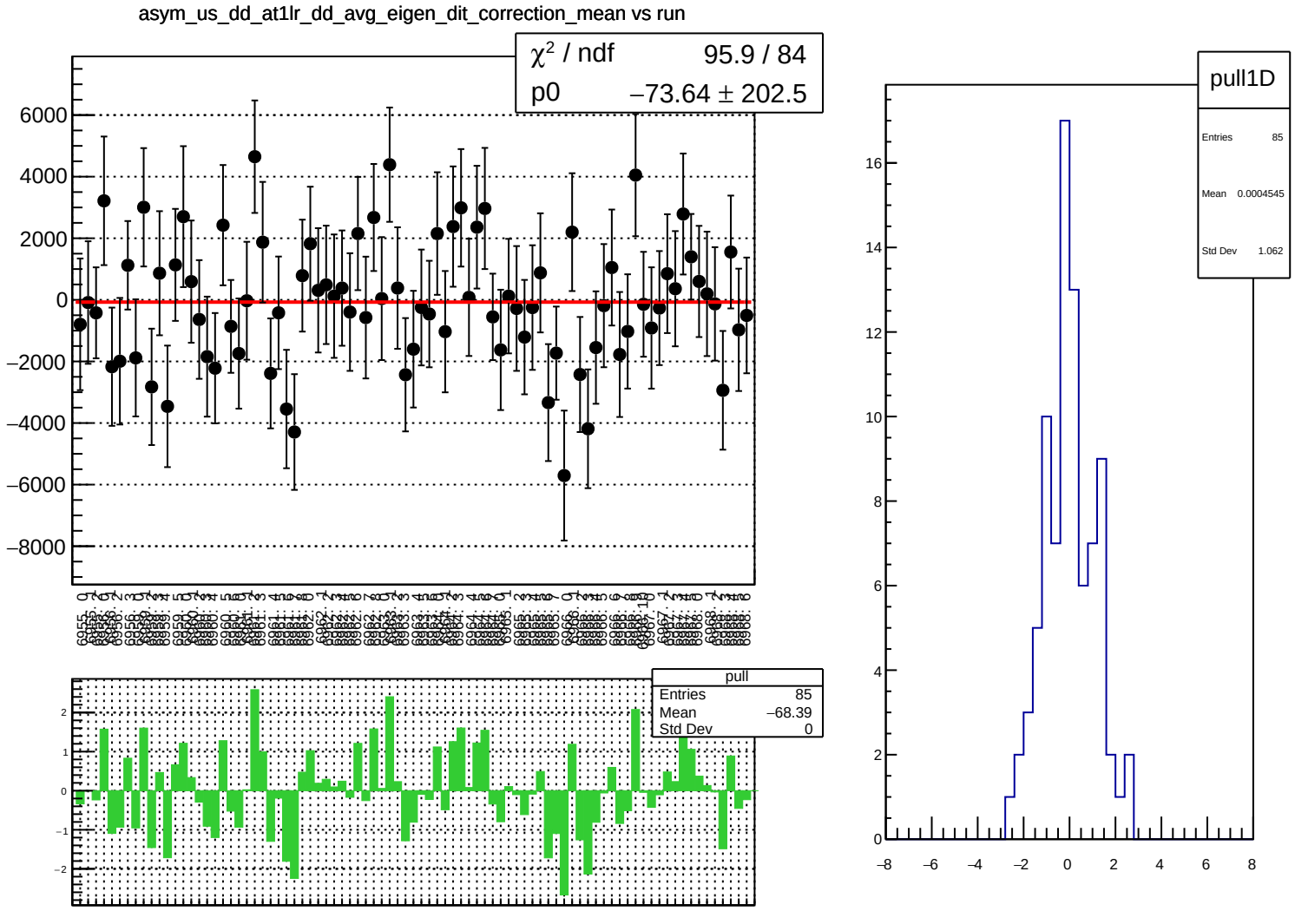

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 95.9 / 84
p0 −73.64 ± 202.5
pull
Entries 85
Mean −68.42
Std Dev 0
pull1D
Entries 85
Mean 0.0004543
Std Dev 1.062

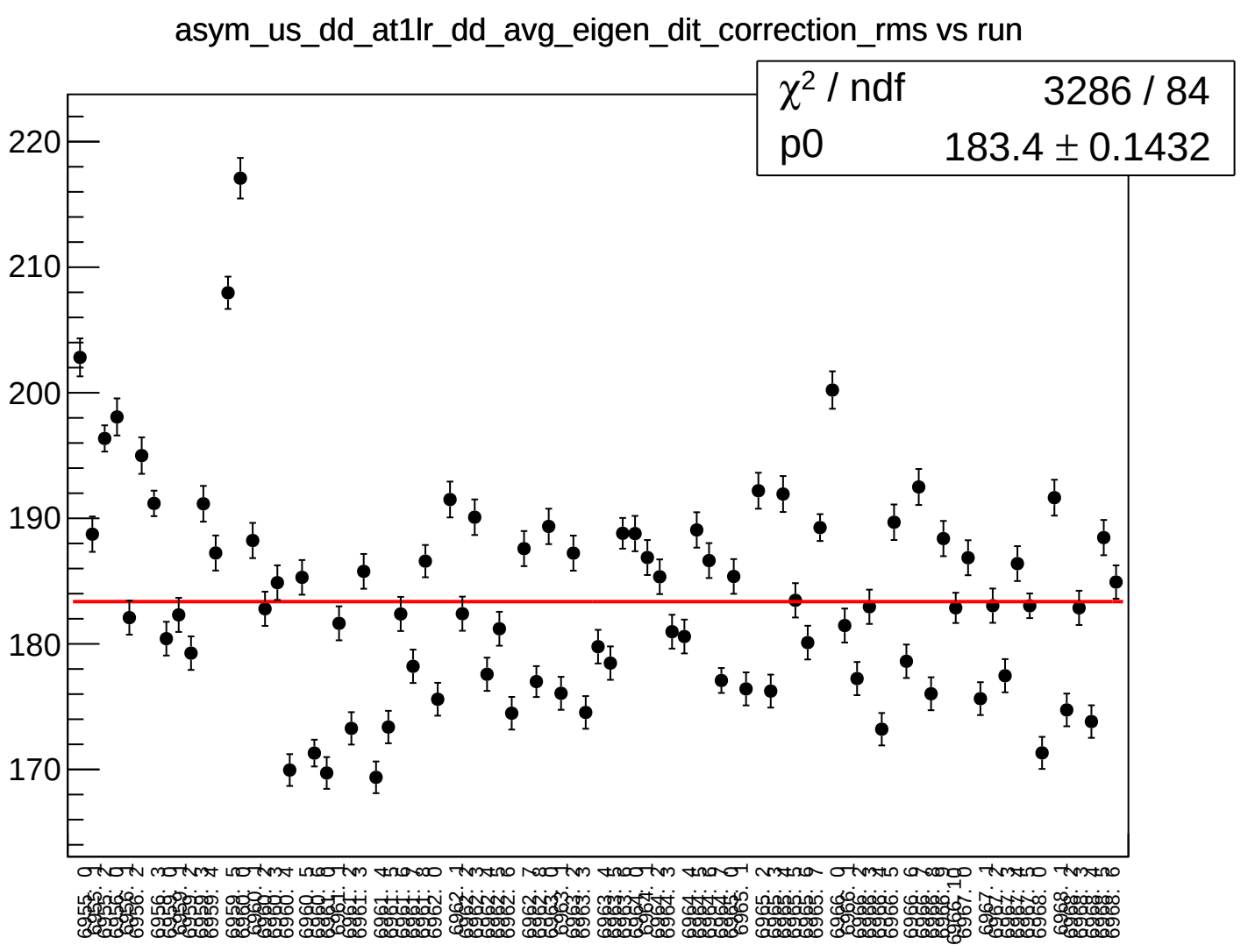

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3286 / 84
p0 183.4 ± 0.1432
220
210
200
190
180
170

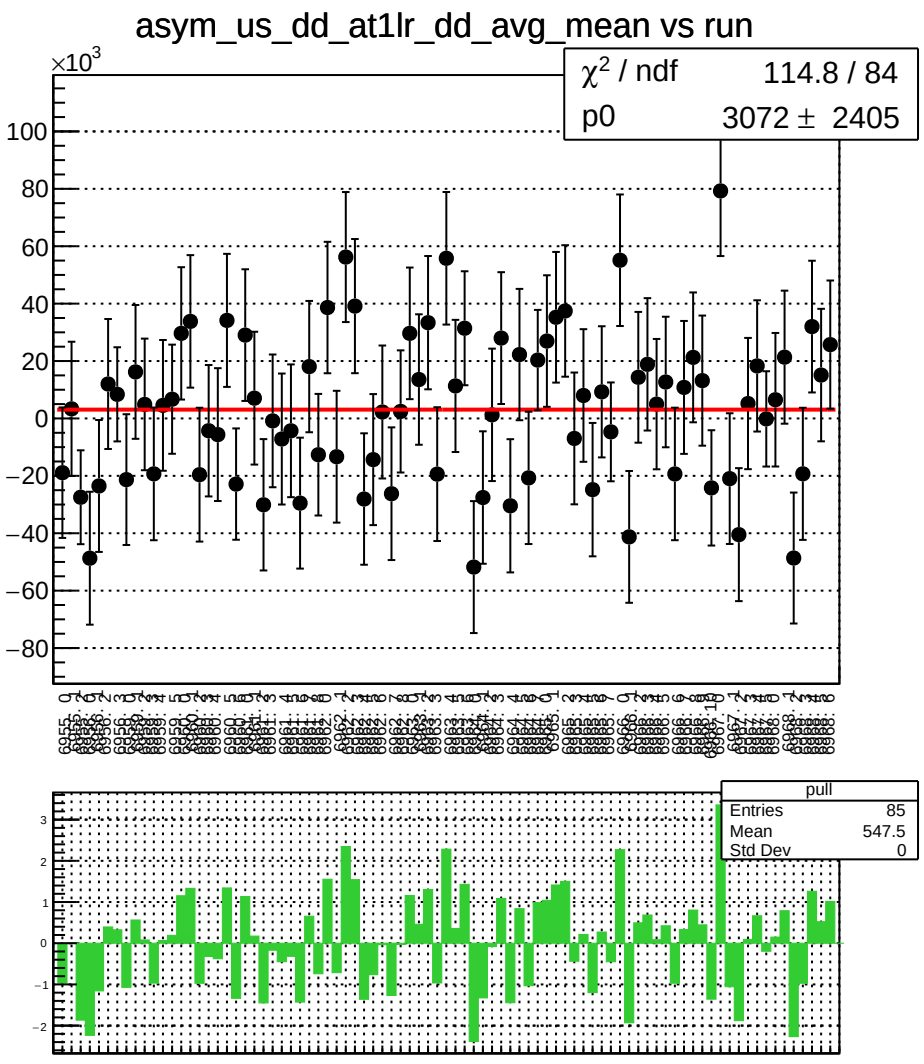

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 114.9 / 84
p0 3011 ± 2397
pull
Entries 85
Mean 560.4
Std Dev 0

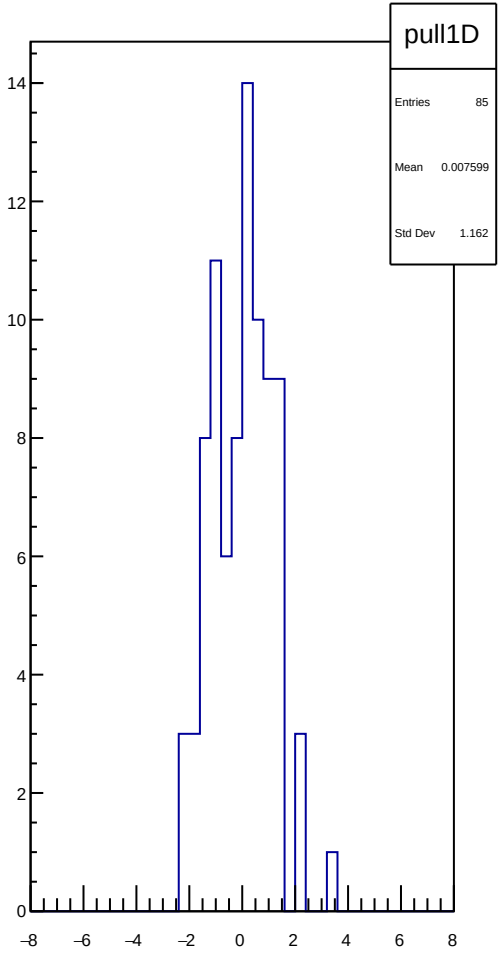

pull1D
Entries 85
Mean 0.007392
Std Dev 1.163

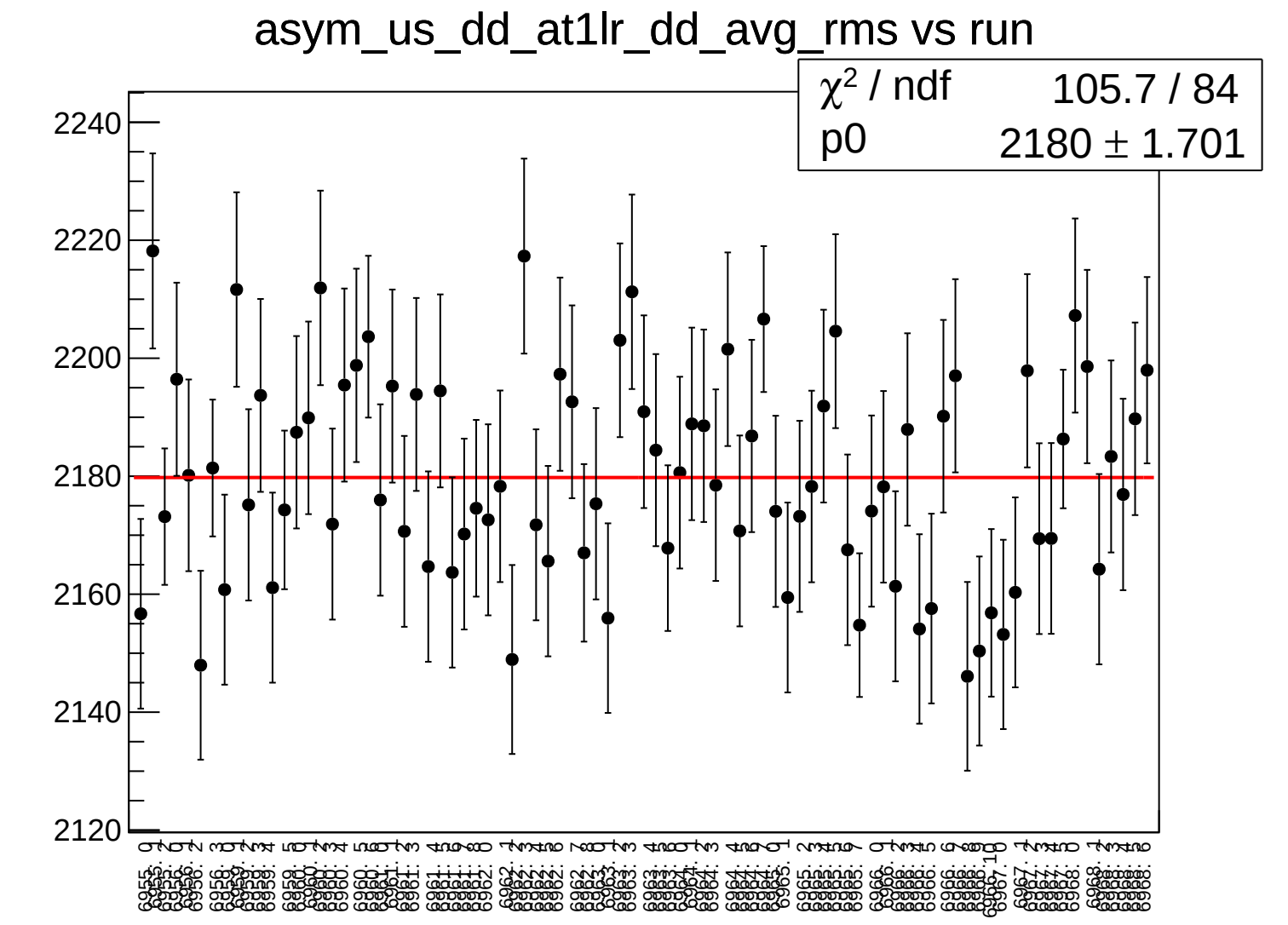

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
$\chi^2$ / ndf 105.4 / 84
p0 2172 ± 1.695
2220
2200
2180
2160
2140
2120

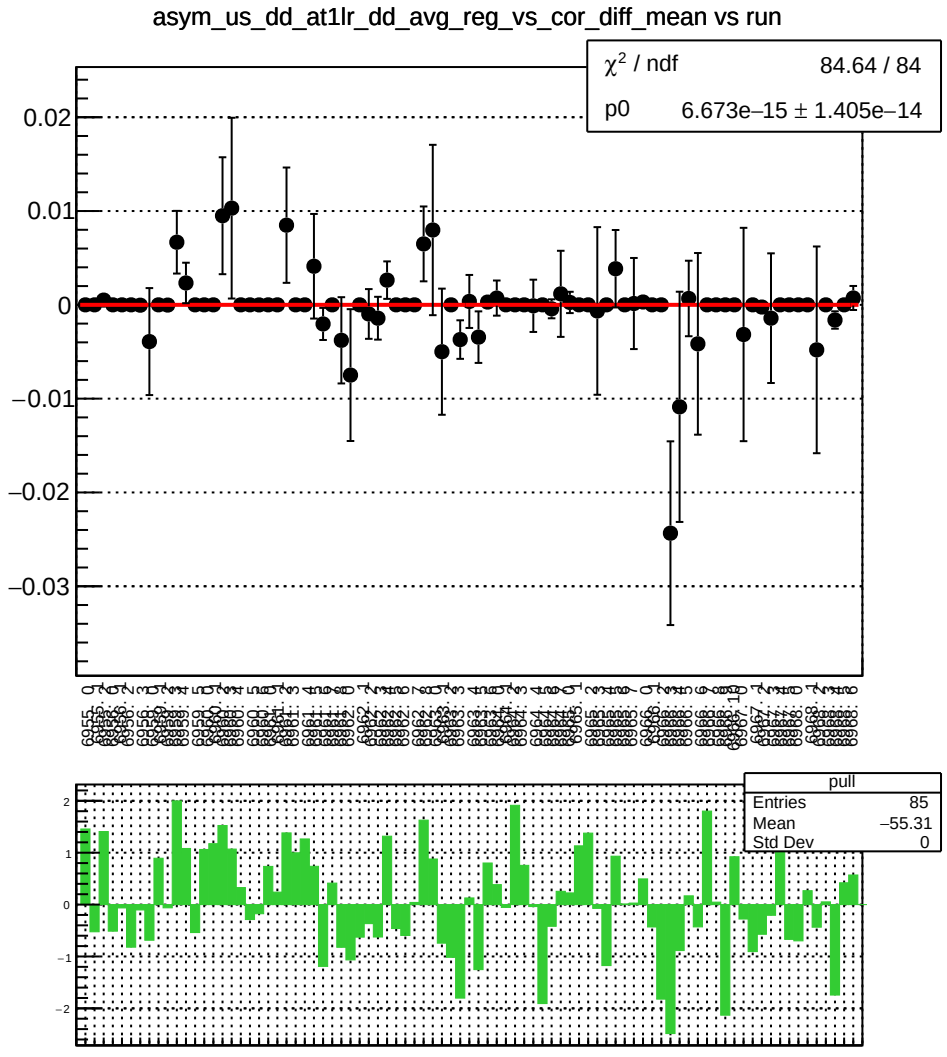

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.9 / 84
p0 −73.64 ± 202.5
pull
Entries 85
Mean −68.39
Std Dev 0
pull1D
Entries 85
Mean 0.0004545
Std Dev 1.062

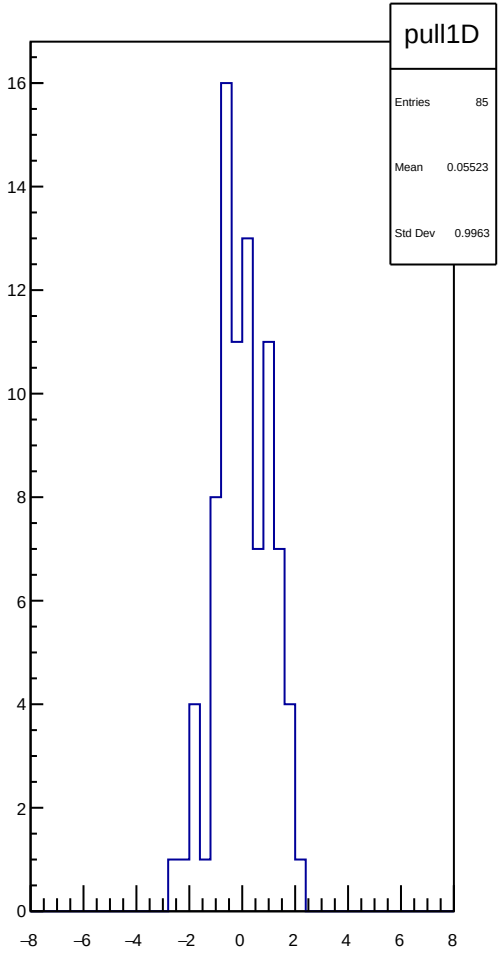

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3286 / 84
p0 183.4 ± 0.1432
220
210
200
190
180
170

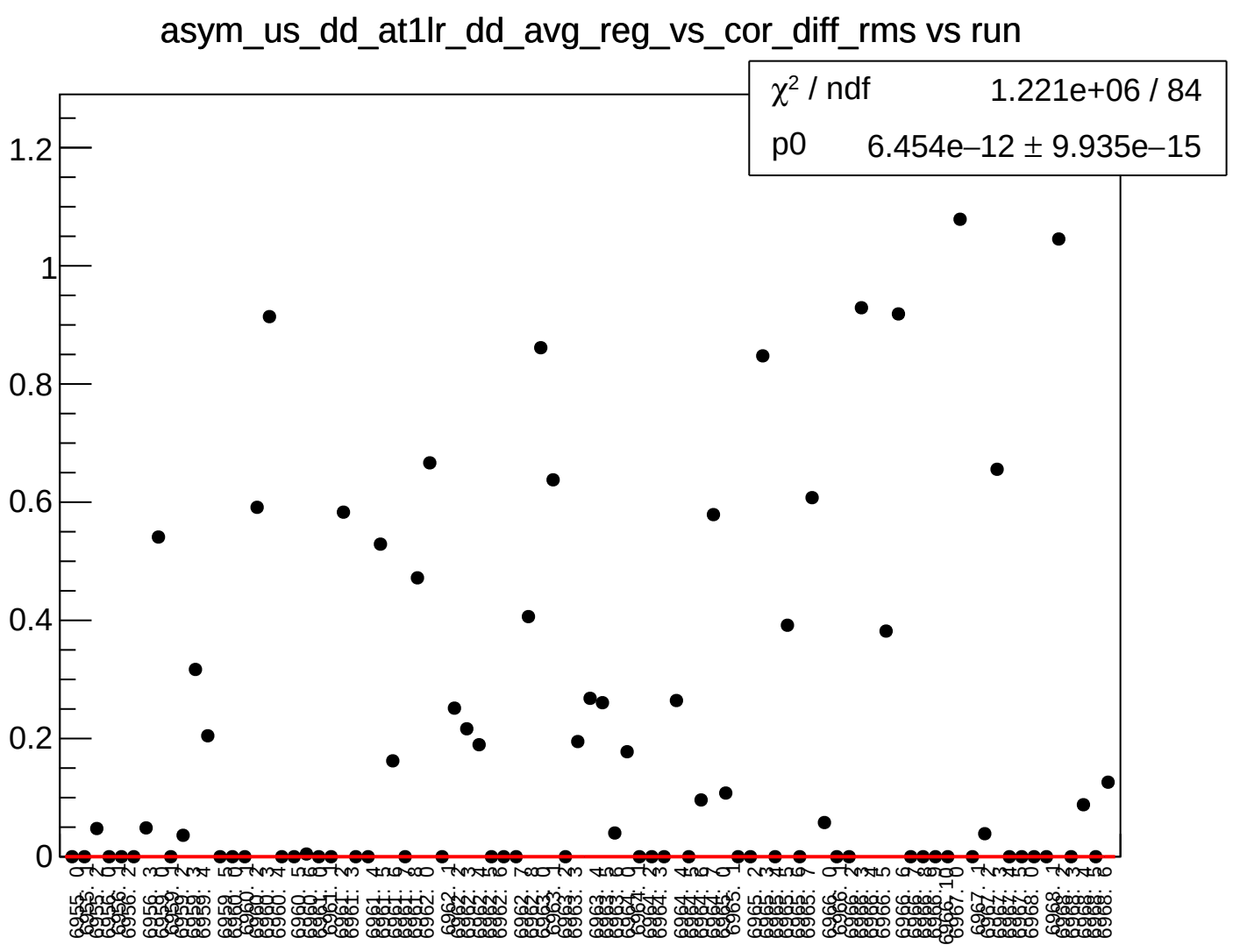

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 114.8 / 84
p0 3072 ± 2405
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 85
Mean 547.5
Std Dev 0
3
2
1
0
−1
−2

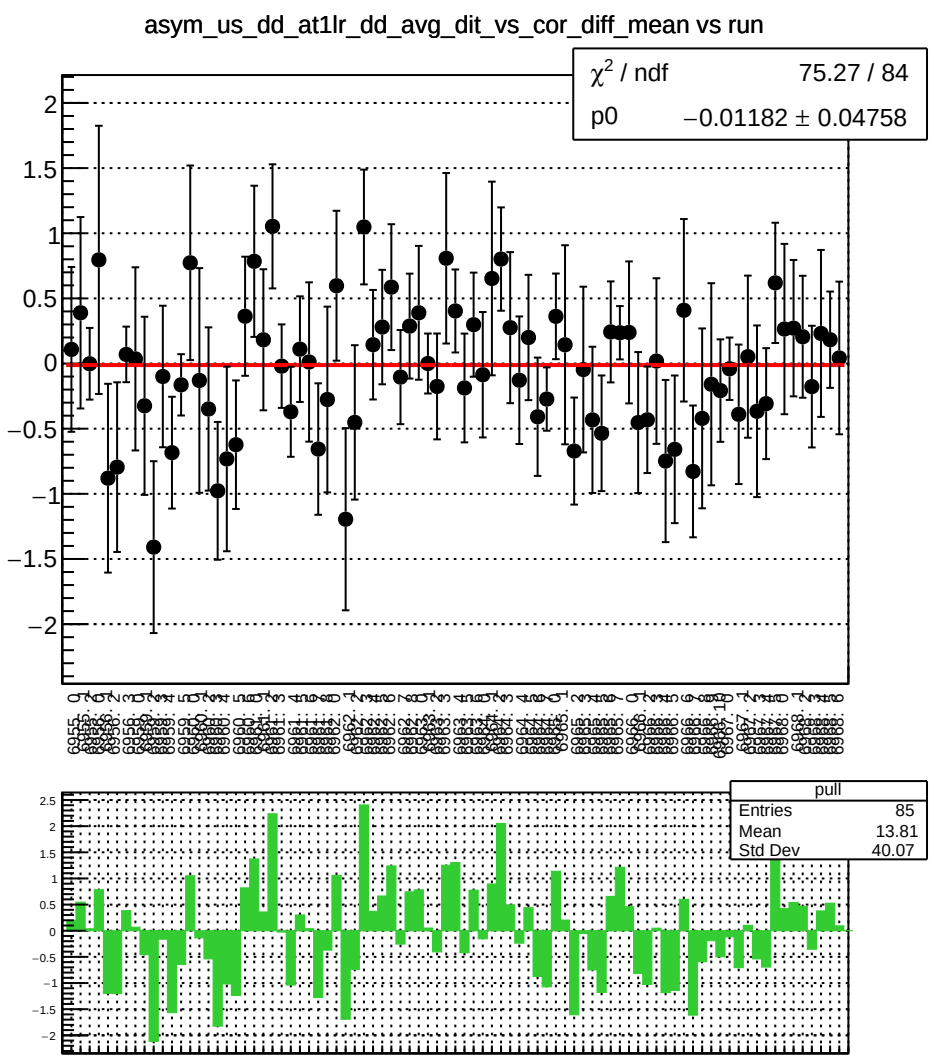

pull1D
Entries 85
Mean 0.007599
Std Dev 1.162
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

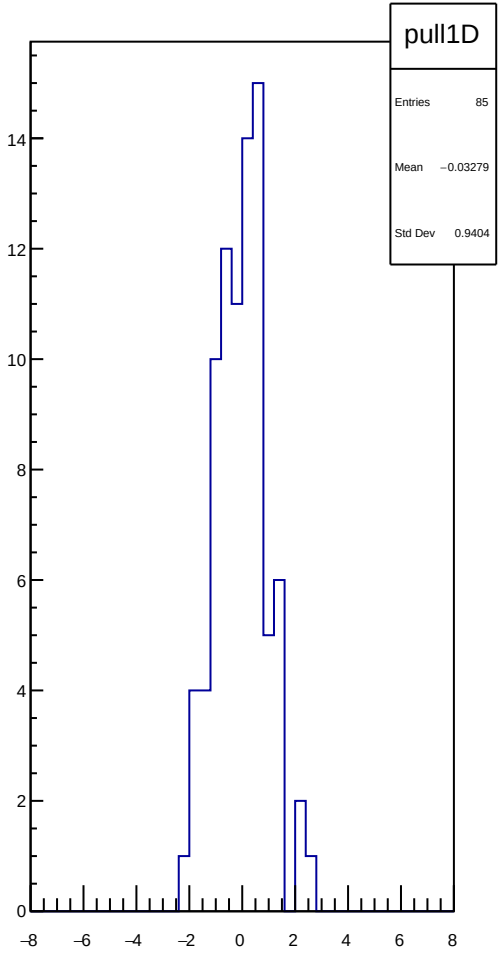

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 105.7 / 84
p0 2180 ± 1.701
2240
2220
2200
2180
2160
2140
2120

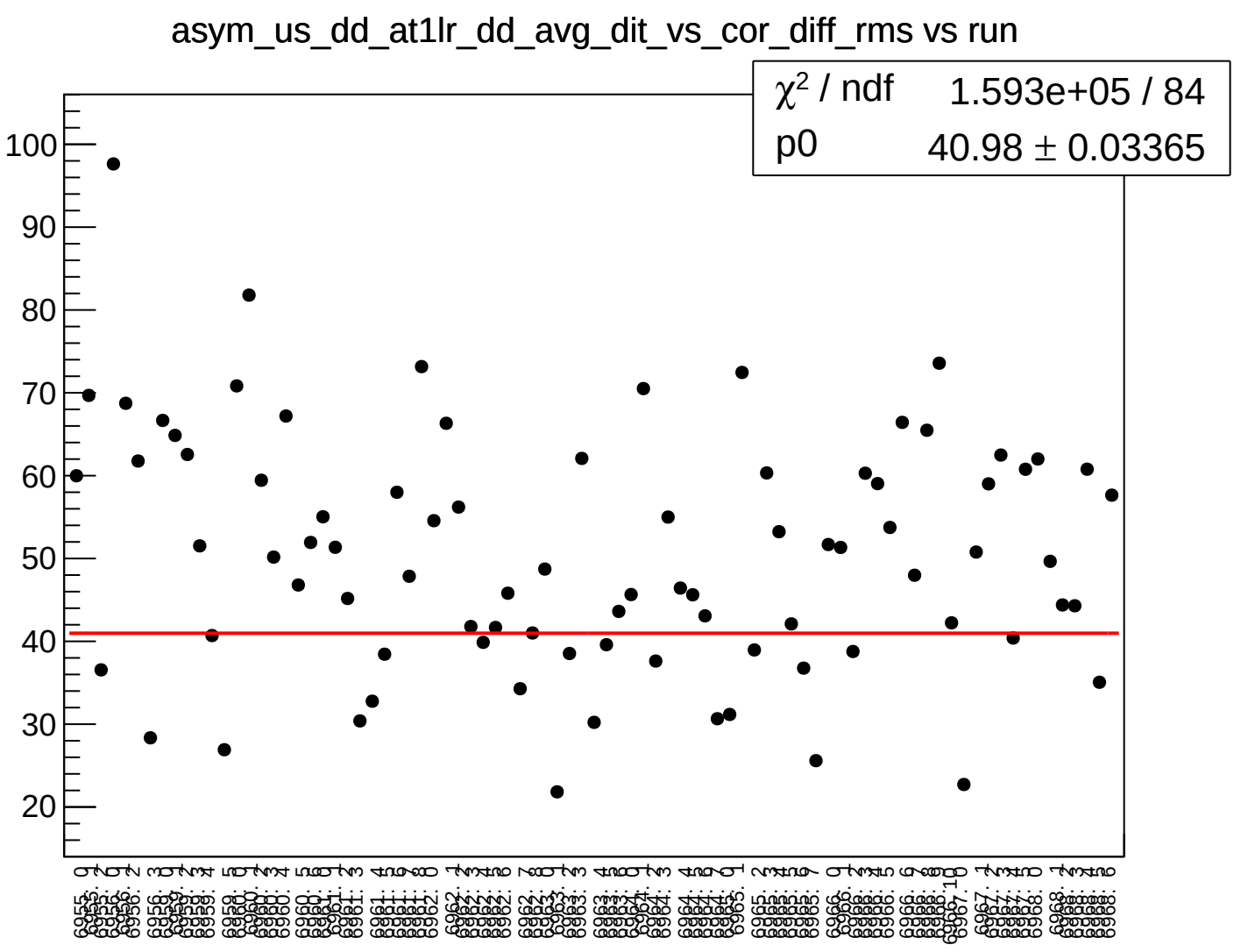

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.64 / 84
p0 6.673e−15 ± 1.405e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean −55.31
Std Dev 0
2
1
0
−1
−2

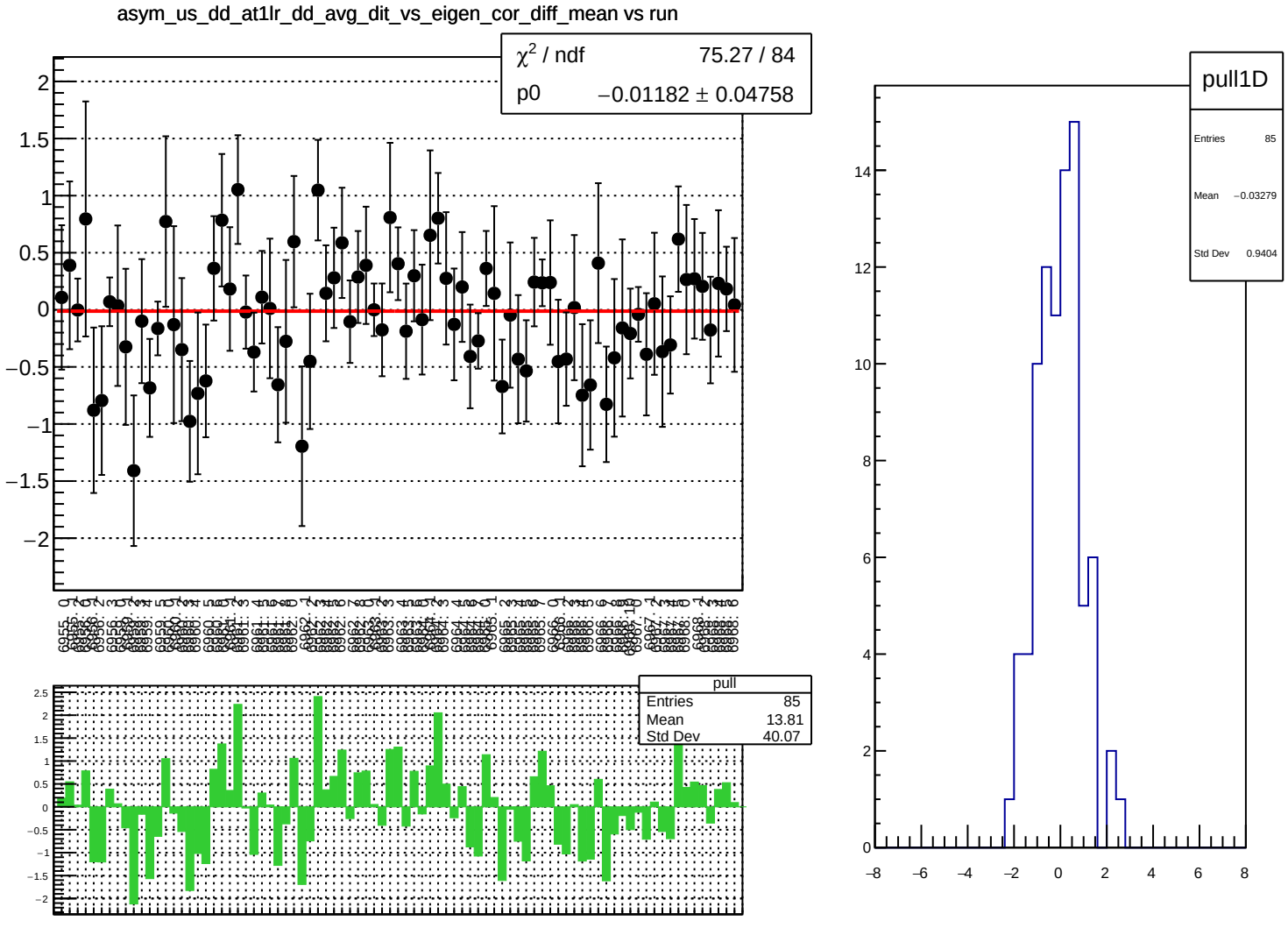

pull1D
Entries 85
Mean 0.05523
Std Dev 0.9963
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

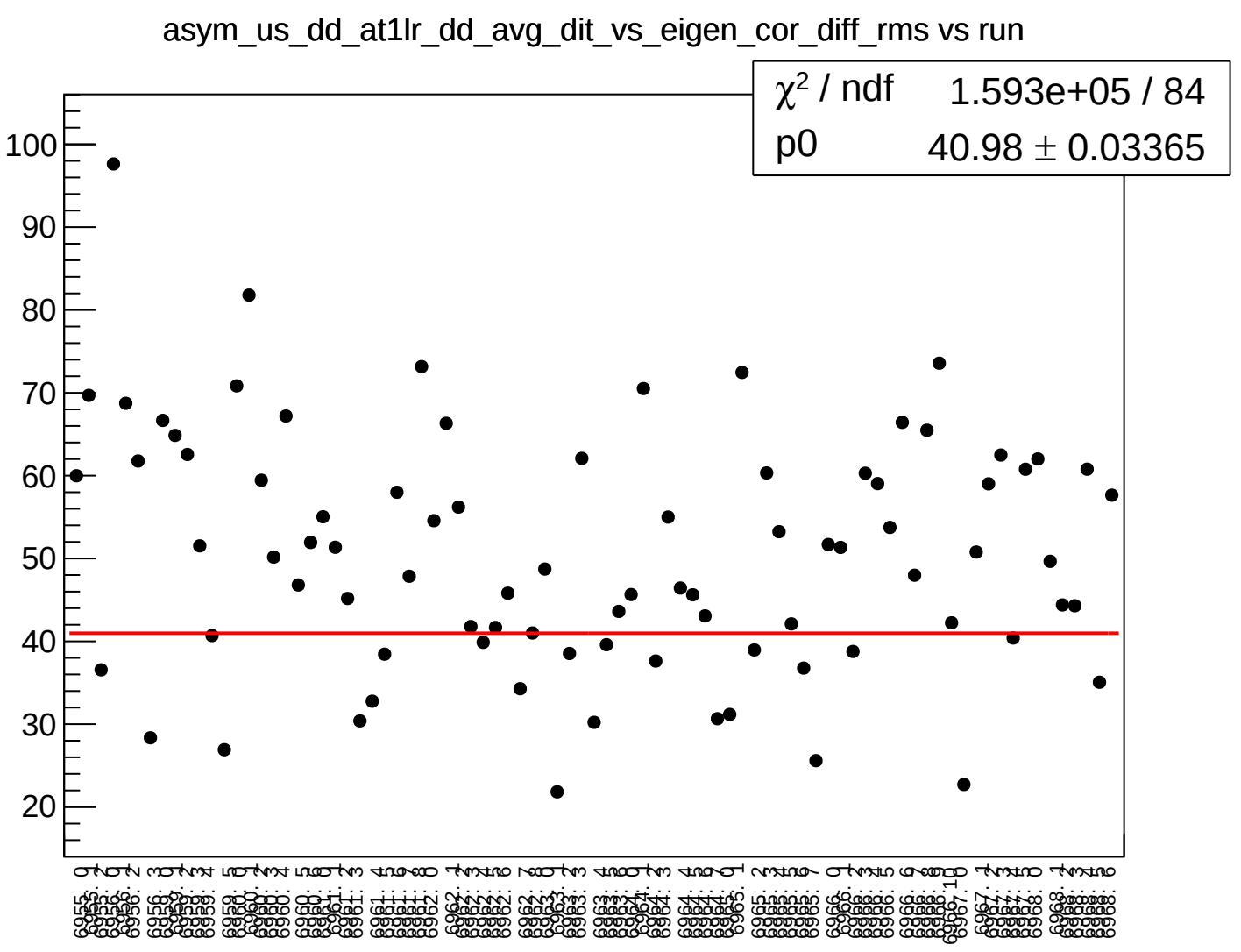

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.221e+06 / 84
p0 6.454e−12 ± 9.935e−15
1.2
1
0.8
0.6
0.4
0.2
0

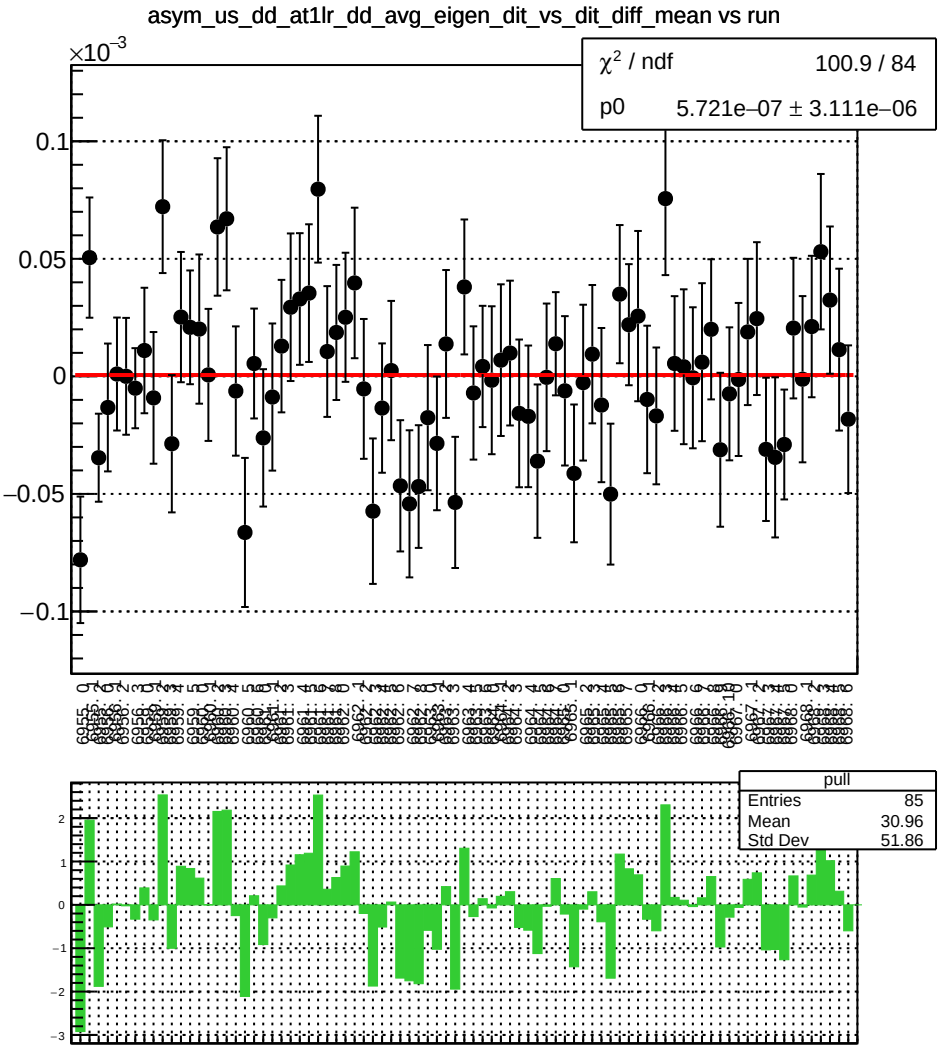

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.27 / 84
p0 −0.01182 ± 0.04758
pull
Entries 85
Mean 13.81
Std Dev 40.07

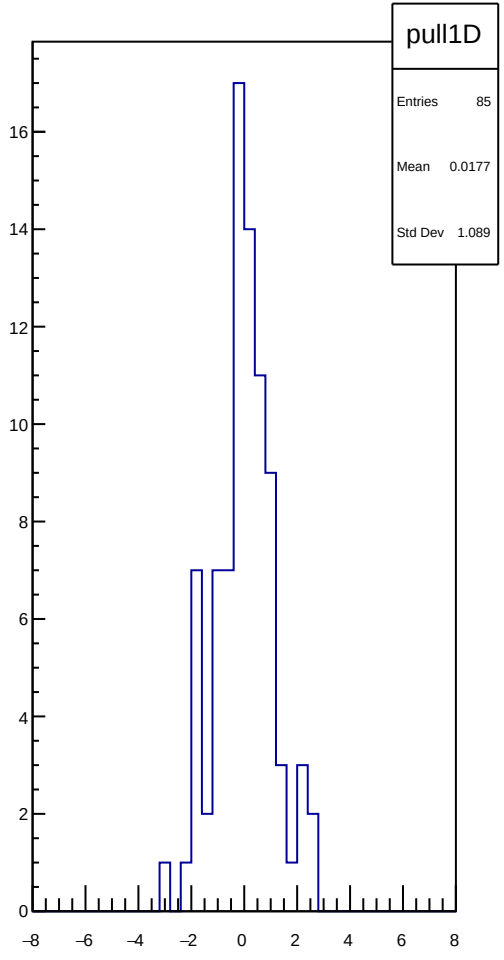

pull1D
Entries 85
Mean −0.03279
Std Dev 0.9404

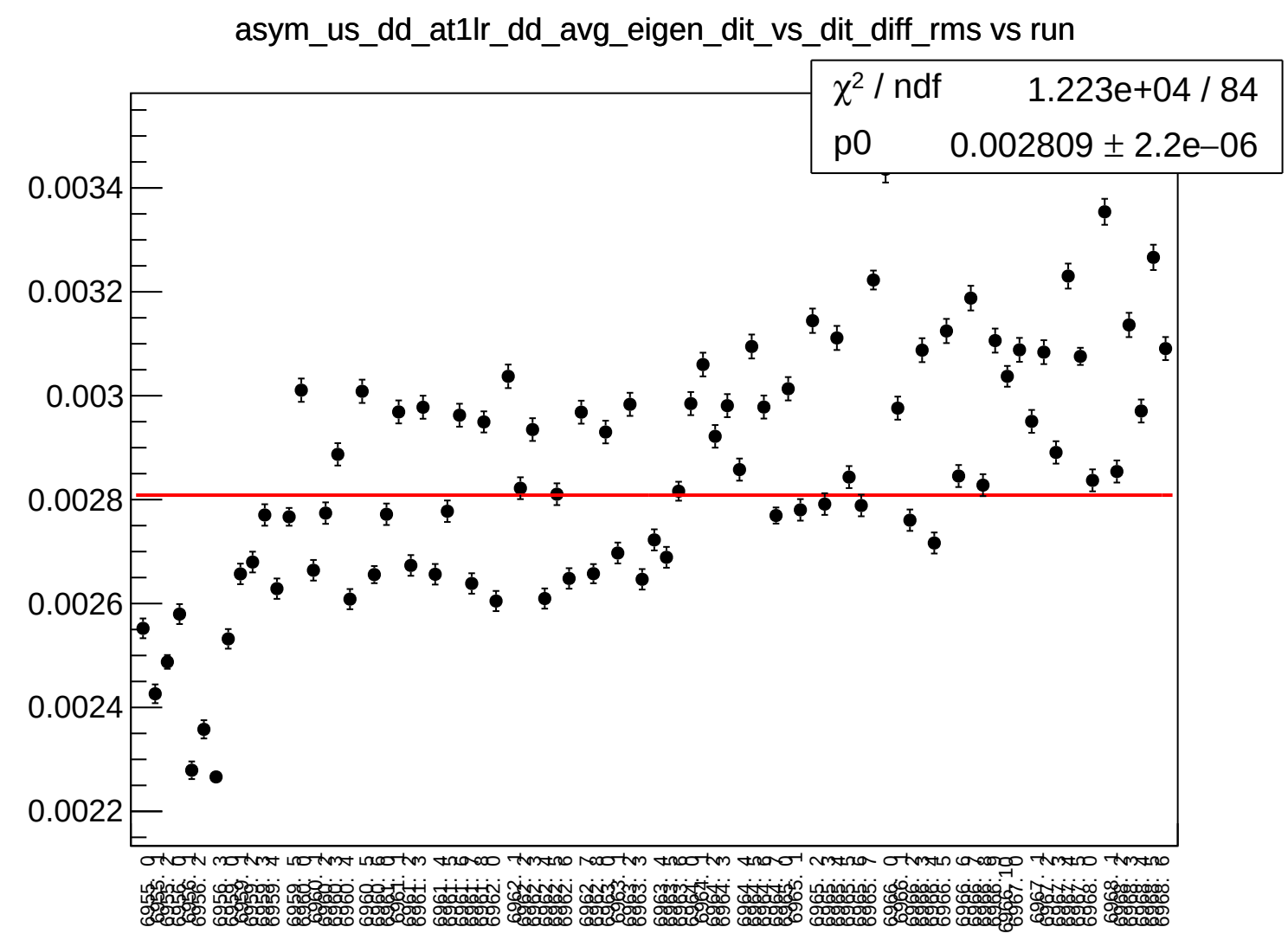

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.593e+05 / 84
p0 40.98 ± 0.03365
100
90
80
70
60
50
40
30
20

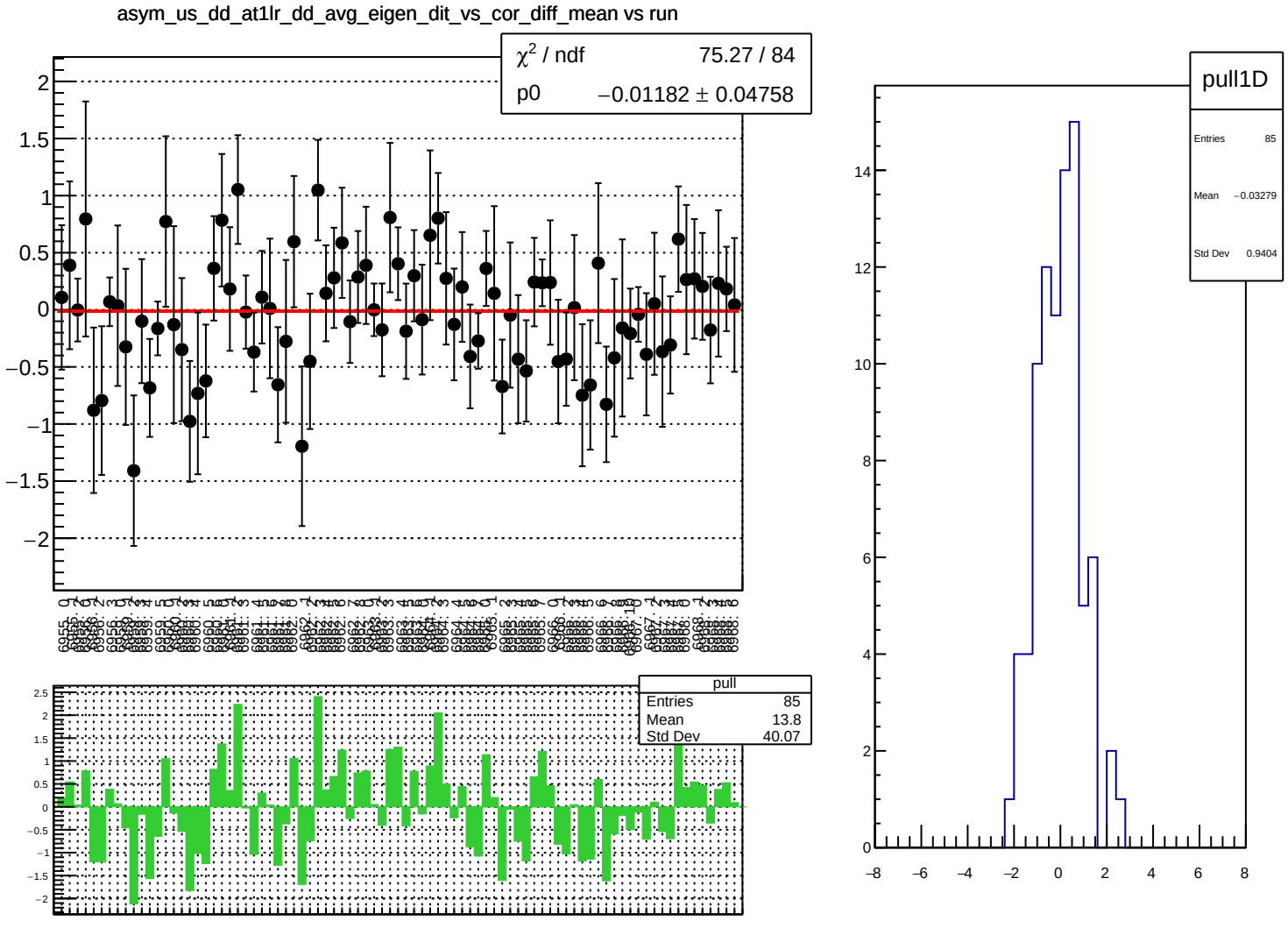

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.27 / 84
p0 −0.01182 ± 0.04758
pull
Entries 85
Mean 13.81
Std Dev 40.07
pull1D
Entries 85
Mean −0.03279
Std Dev 0.9404

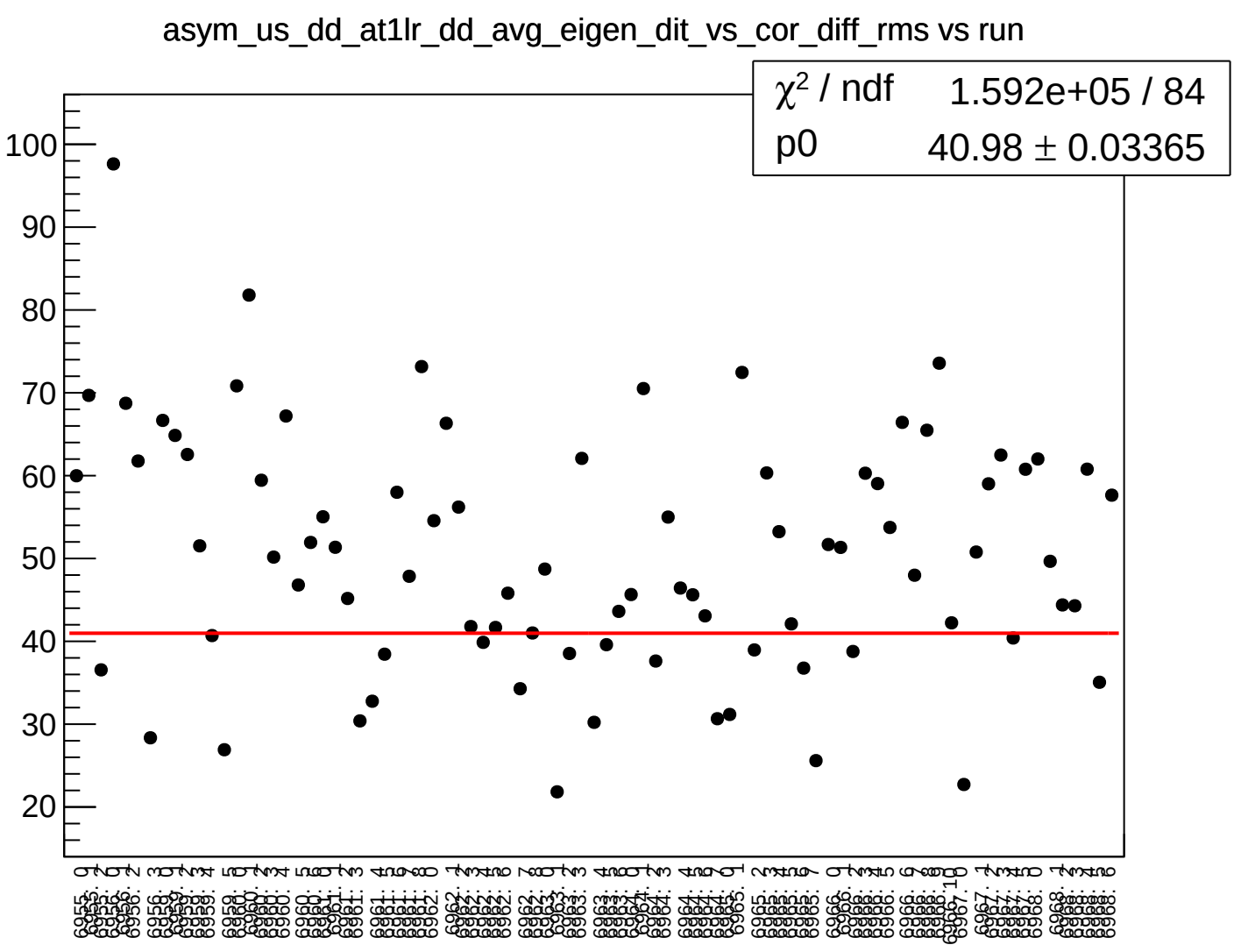

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.593e+05 / 84
p0 40.98 ± 0.03365
100
90
80
70
60
50
40
30
20

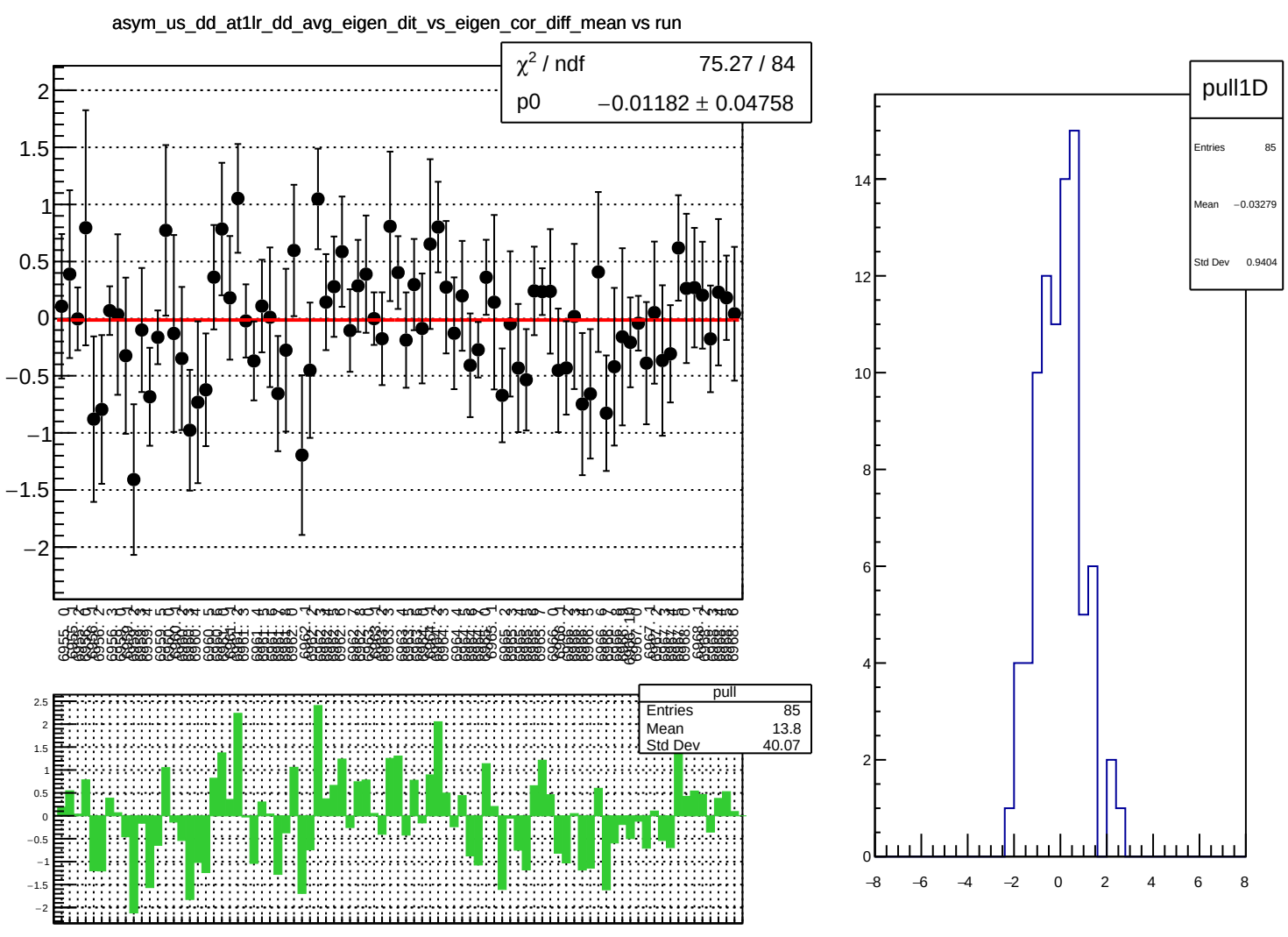

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.9 / 84
p0 5.721e−07 ± 3.111e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 30.96
Std Dev 51.86
2
1
0
−1
−2
−3

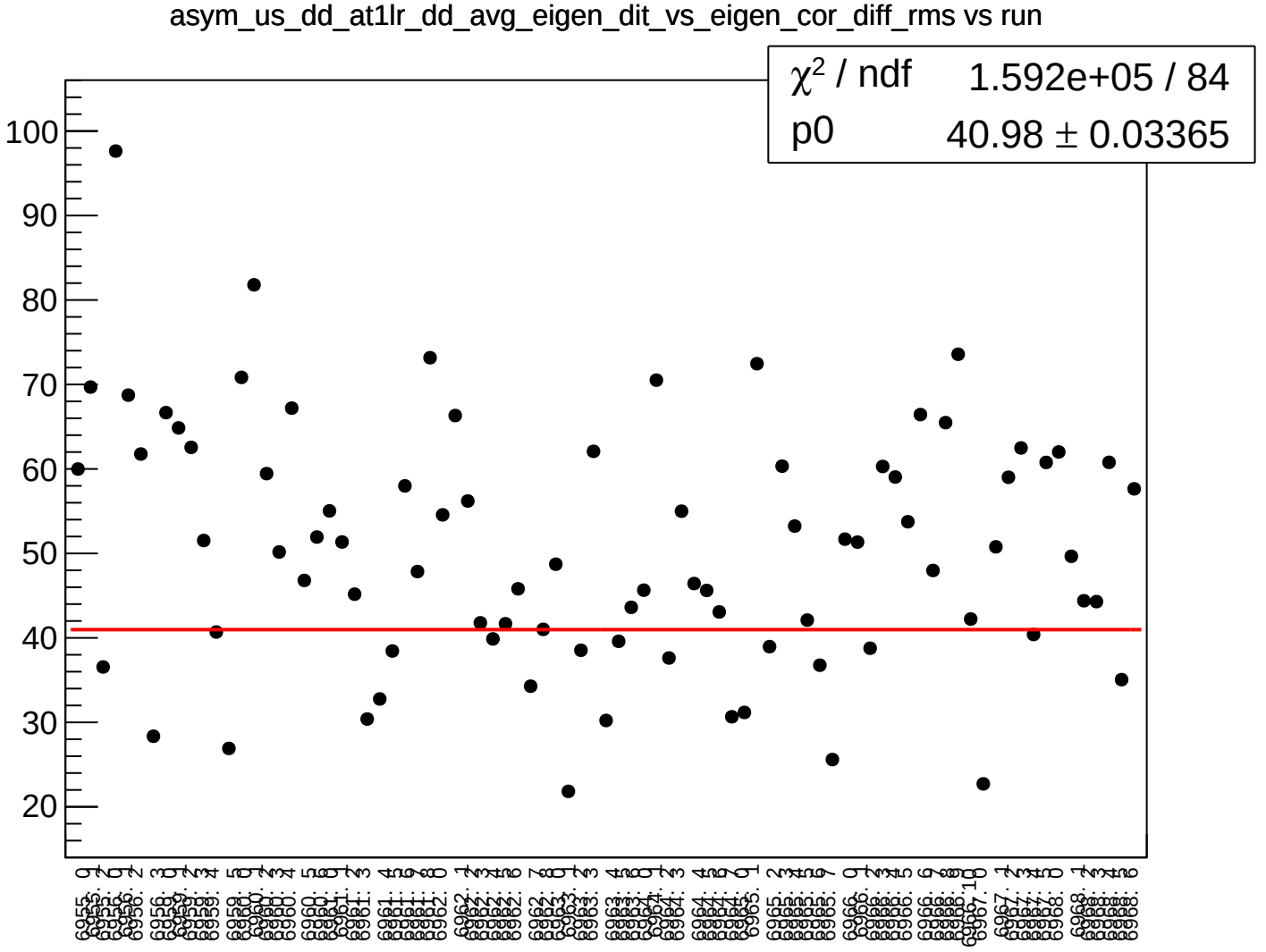

pull1D
Entries 85
Mean 0.0177
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

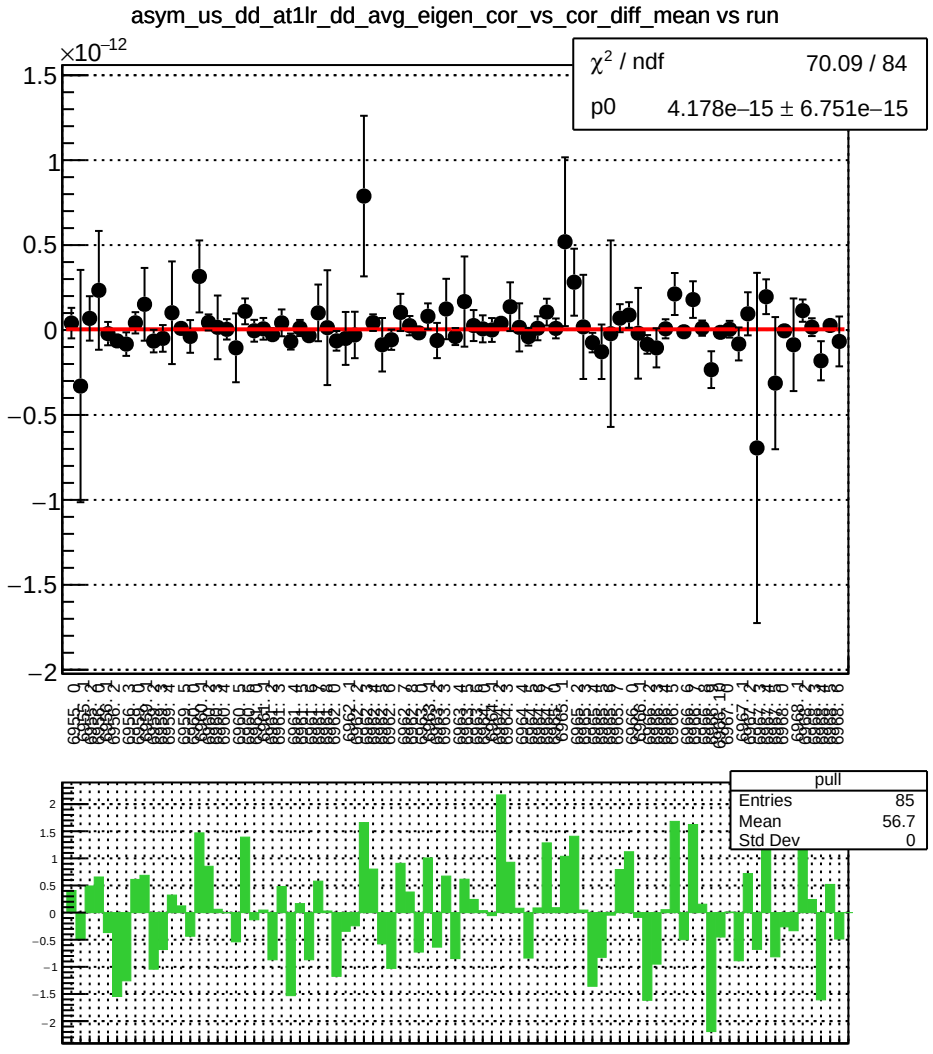

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.223e+04 / 84
p0 0.002809 ± 2.2e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

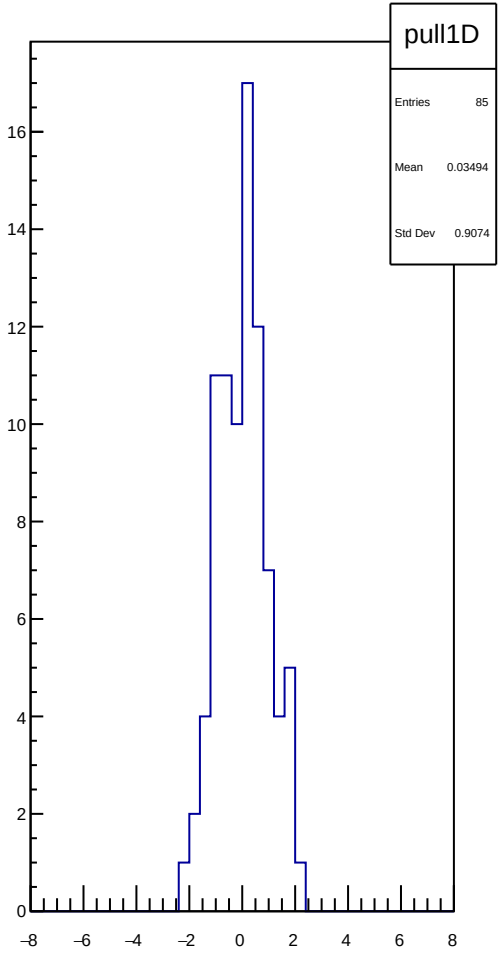

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.27 / 84
p0 −0.01182 ± 0.04758
pull
Entries 85
Mean 13.8
Std Dev 40.07
pull1D
Entries 85
Mean −0.03279
Std Dev 0.9404

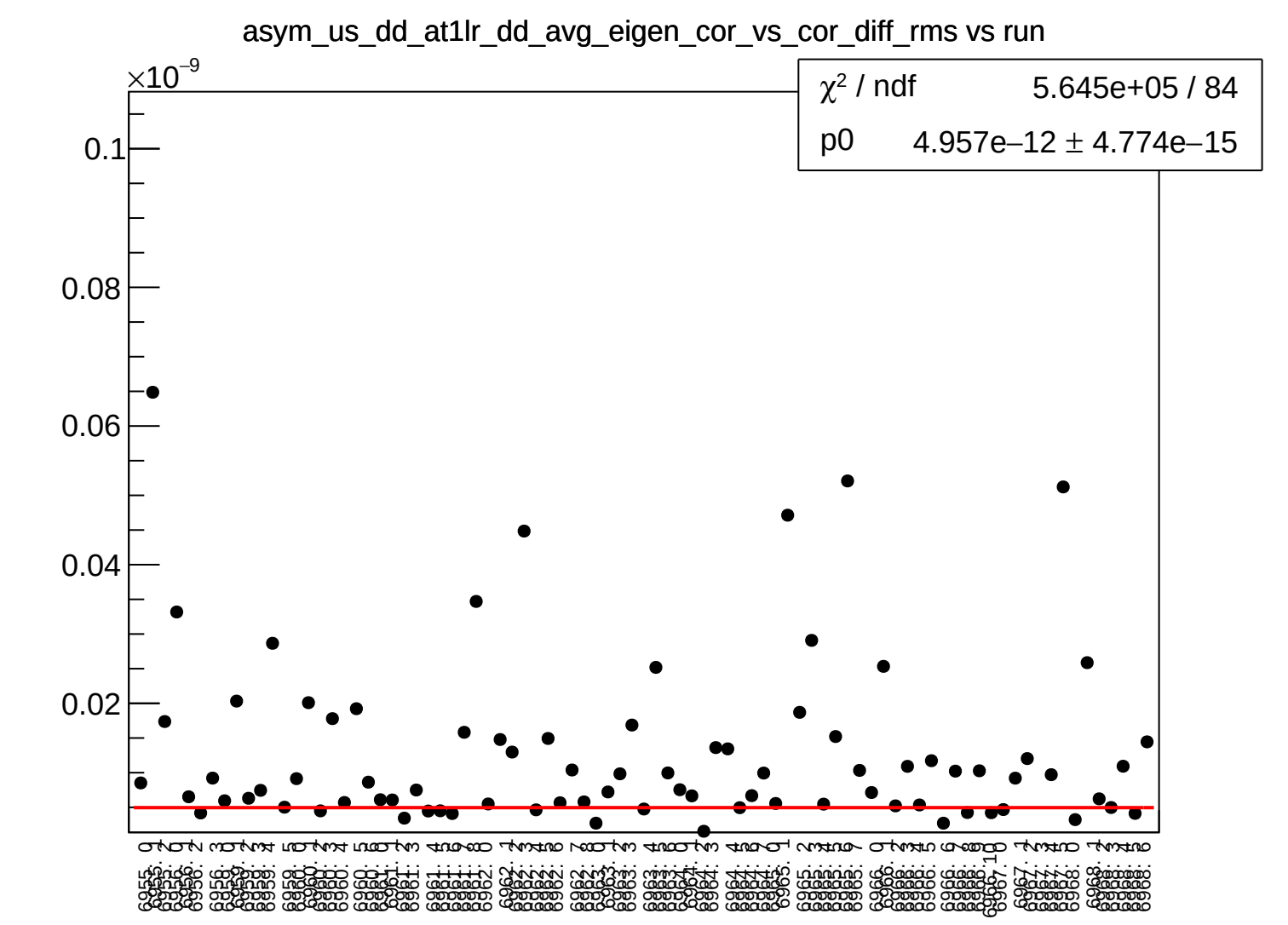

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.592e+05 / 84
p0 40.98 ± 0.03365
100
90
80
70
60
50
40
30
20

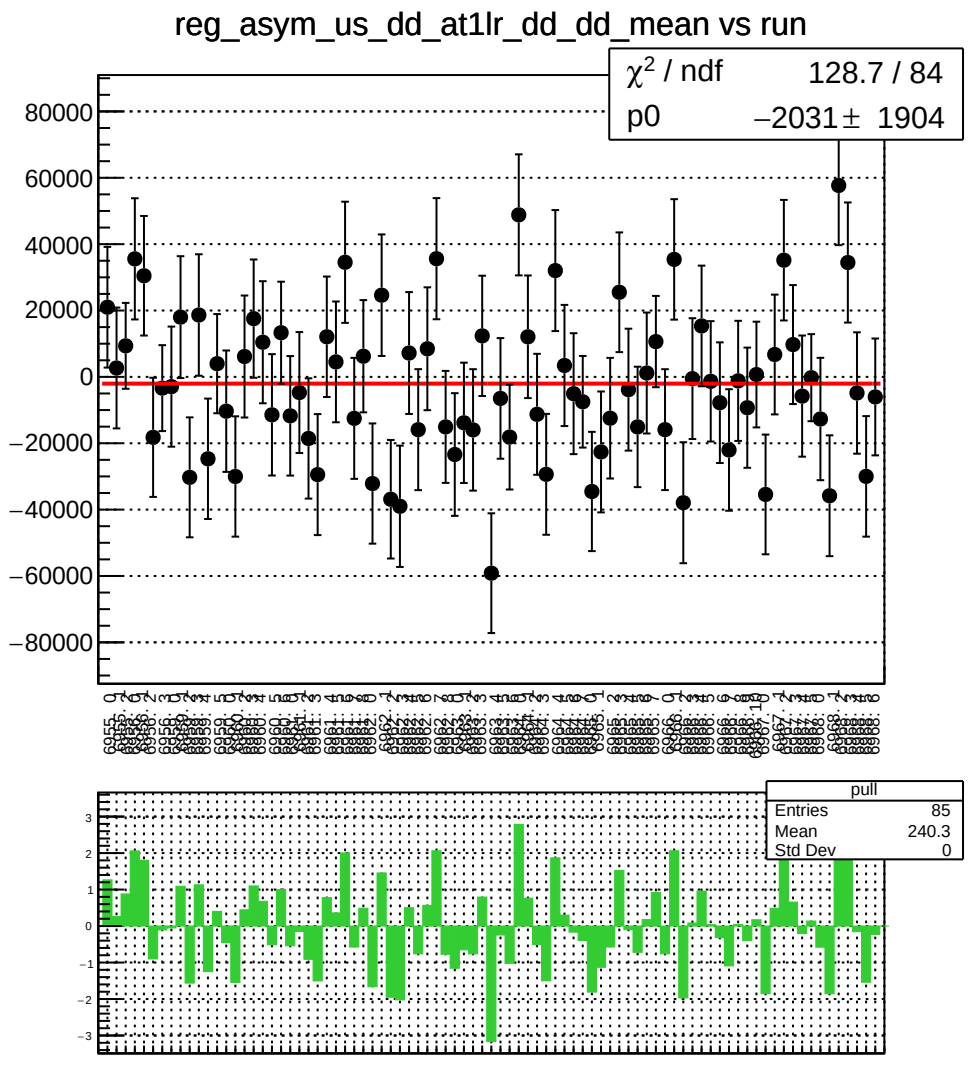

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.27 / 84
p0 −0.01182 ± 0.04758
pull
Entries 85
Mean 13.8
Std Dev 40.07
pull1D
Entries 85
Mean −0.03279
Std Dev 0.9404

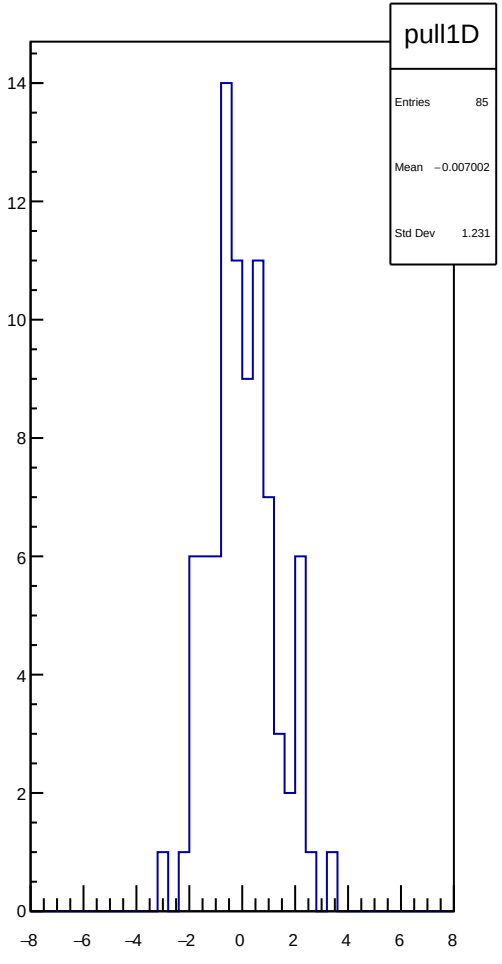

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.592e+05 / 84
p0 40.98 ± 0.03365
100
90
80
70
60
50
40
30
20

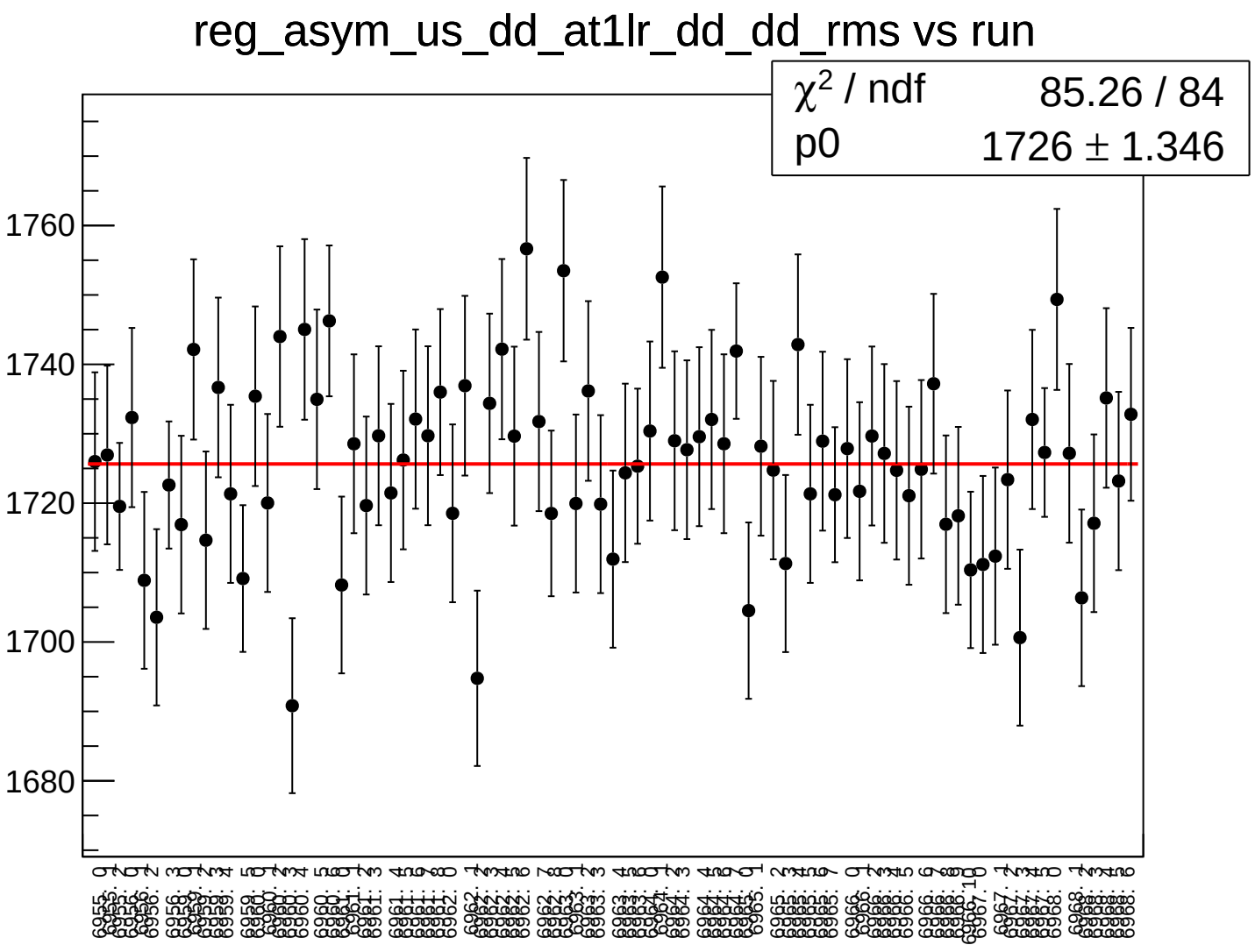

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.09 / 84
p0 4.178e−15 ± 6.751e−15
pull
Entries 85
Mean 56.7
Std Dev 0

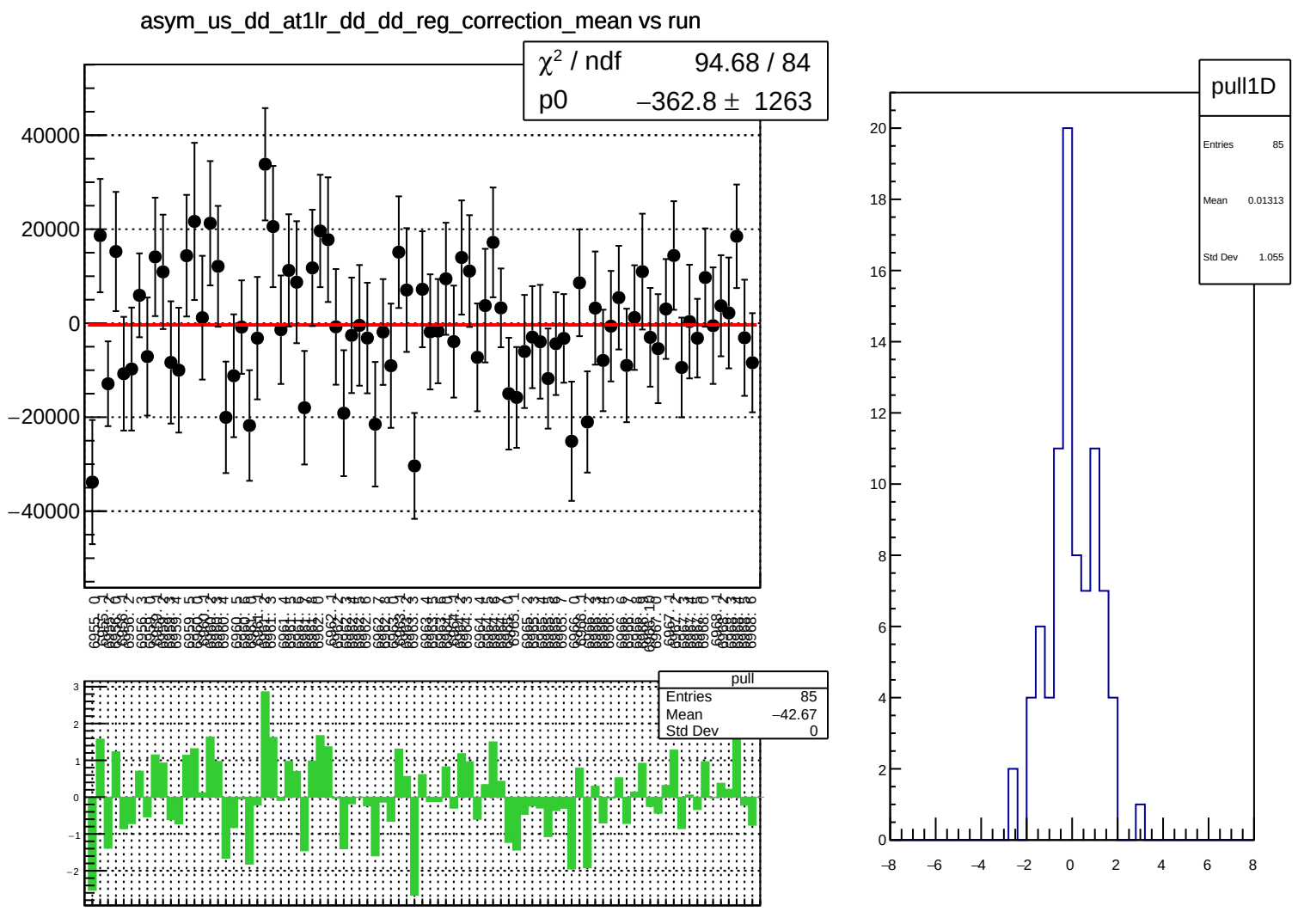

pull1D
Entries 85
Mean 0.03494
Std Dev 0.9074

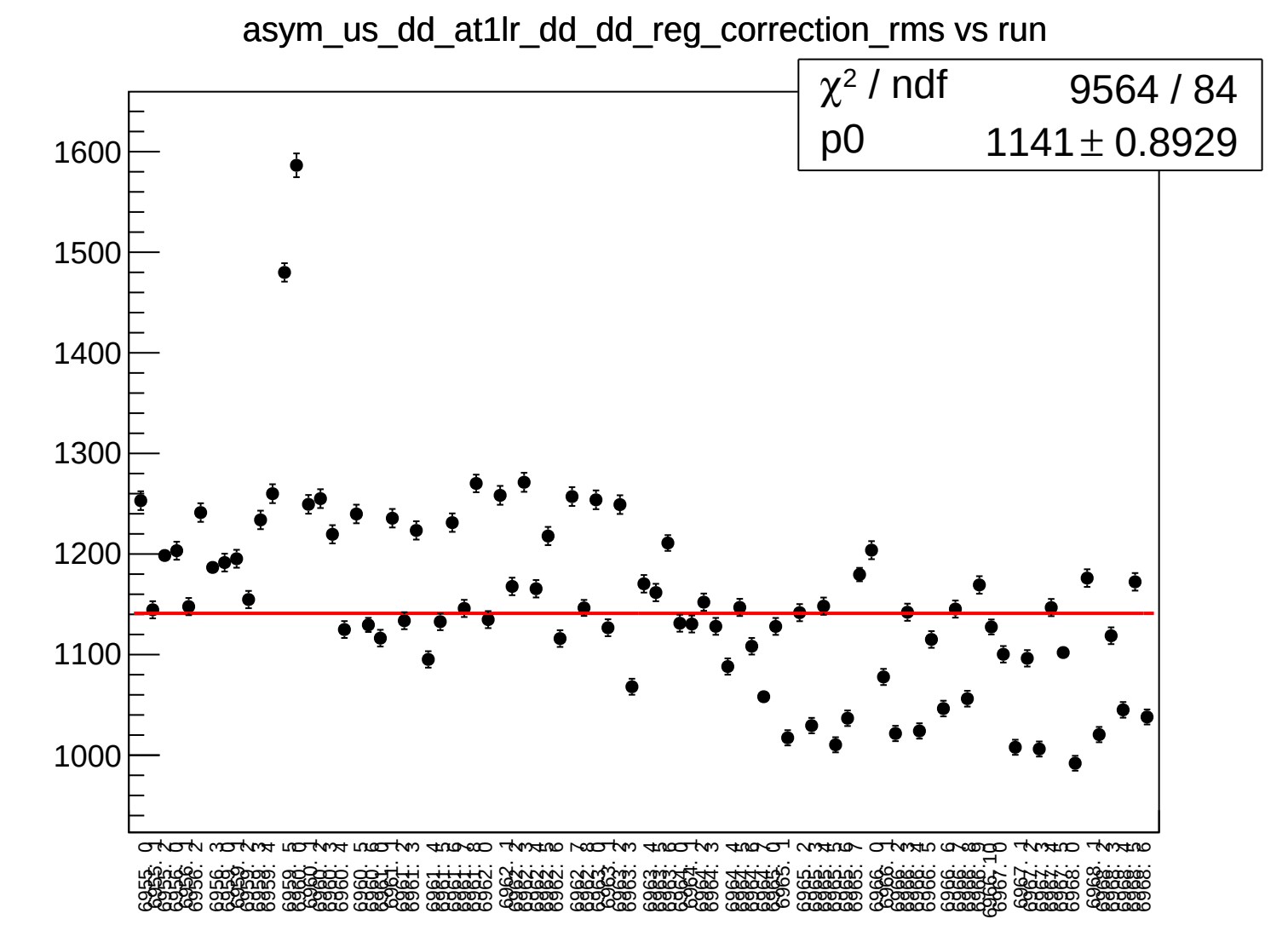

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.645e+05 / 84
p0 4.957e−12 ± 4.774e−15
0.1
0.08
0.06
0.04
0.02

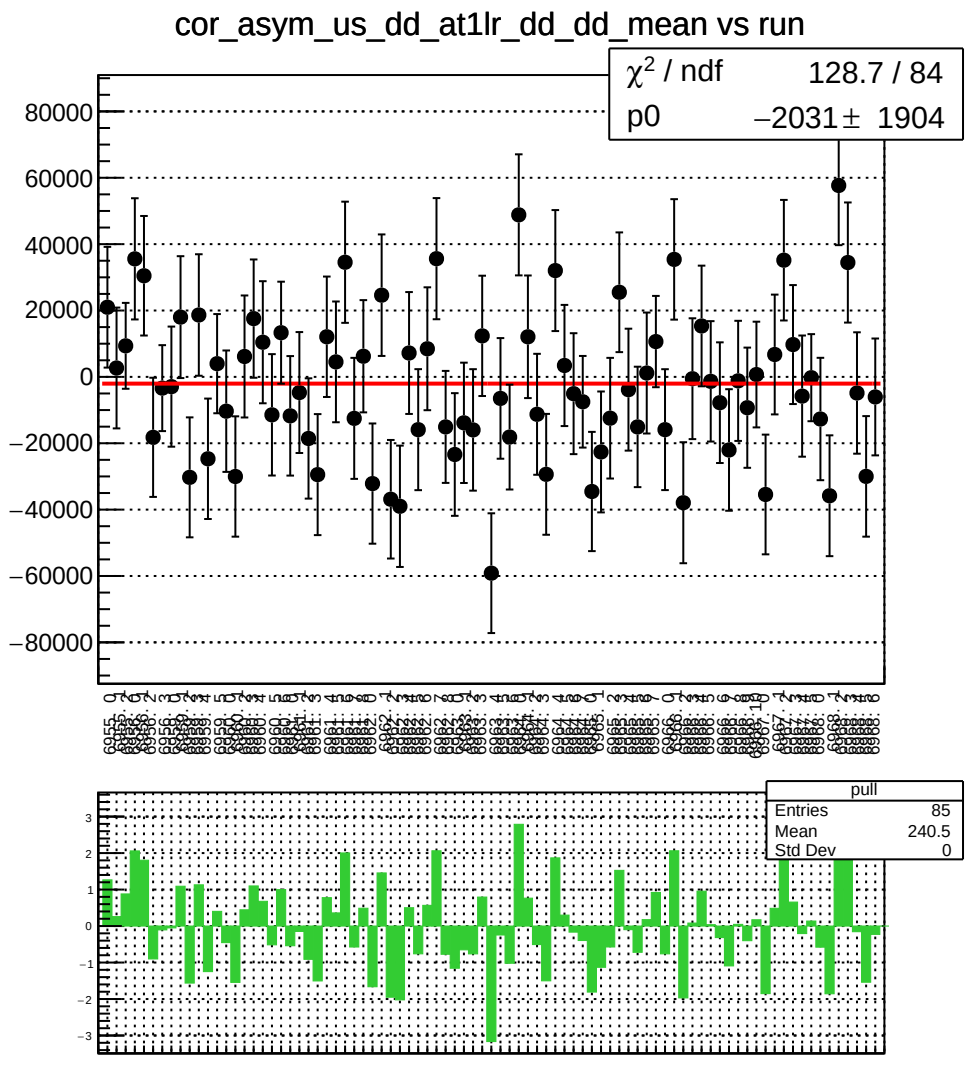

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 128.7 / 84
p0 −2031 ± 1904
pull
Entries 85
Mean 240.3
Std Dev 0

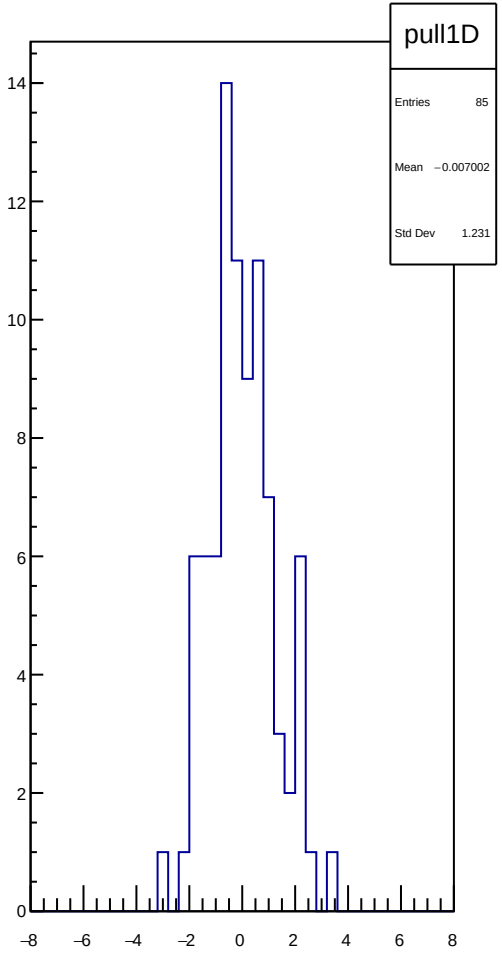

pull1D
Entries 85
Mean −0.007002
Std Dev 1.231

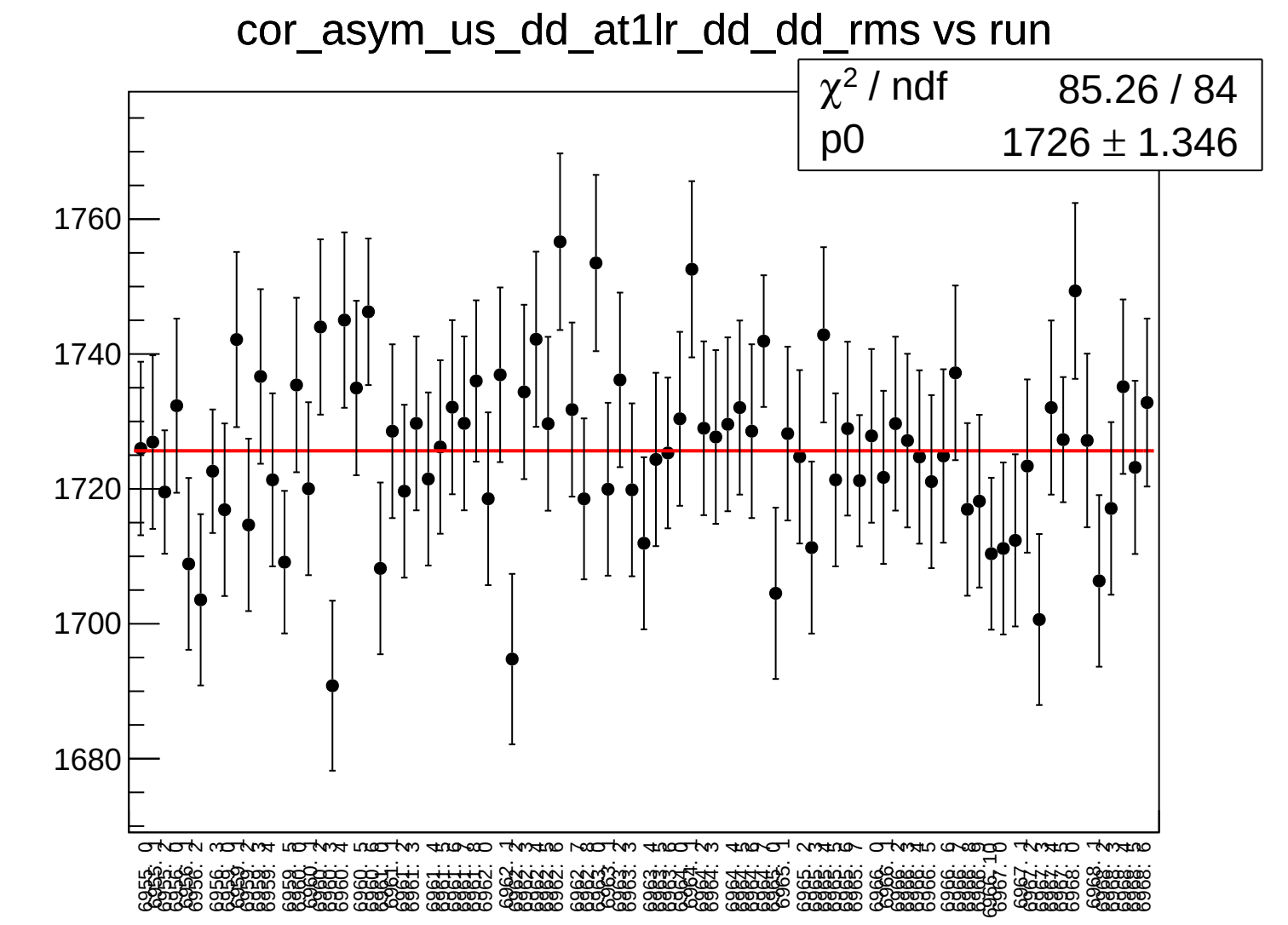

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 85.26 / 84
p0 1726 ± 1.346
1760
1740
1720
1700
1680

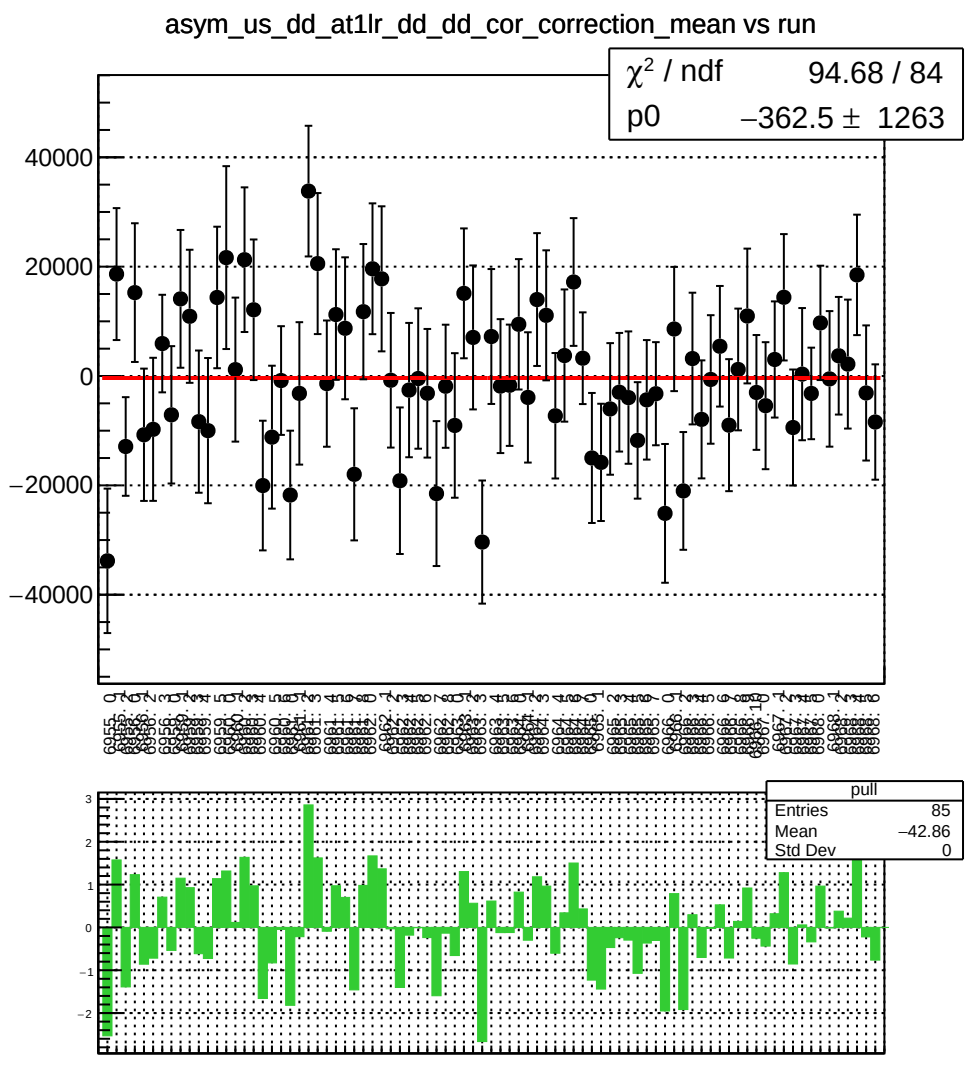

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 94.68 / 84
p0 −362.8 ± 1263
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −42.67
Std Dev 0
pull1D
Entries 85
Mean 0.01313
Std Dev 1.055

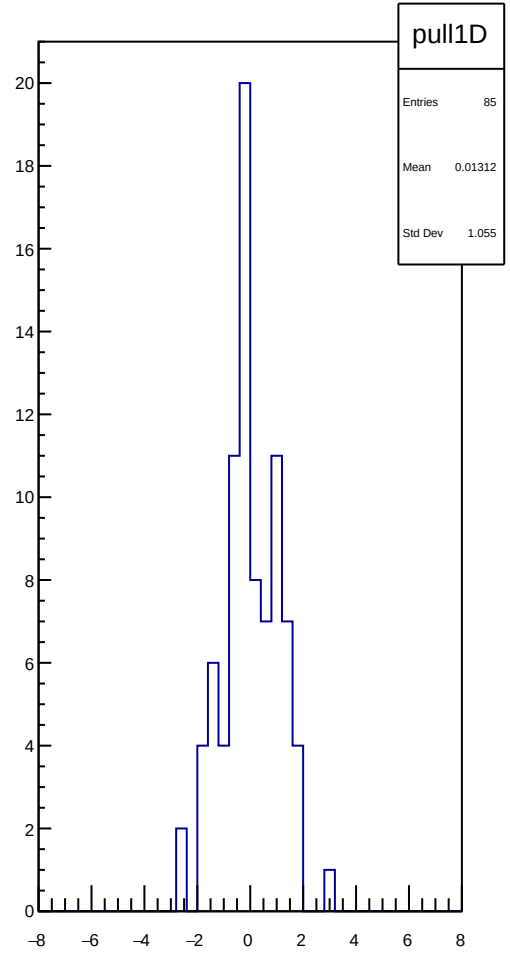

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 9564 / 84
p0 1141 ± 0.8929
1600
1500
1400
1300
1200
1100
1000

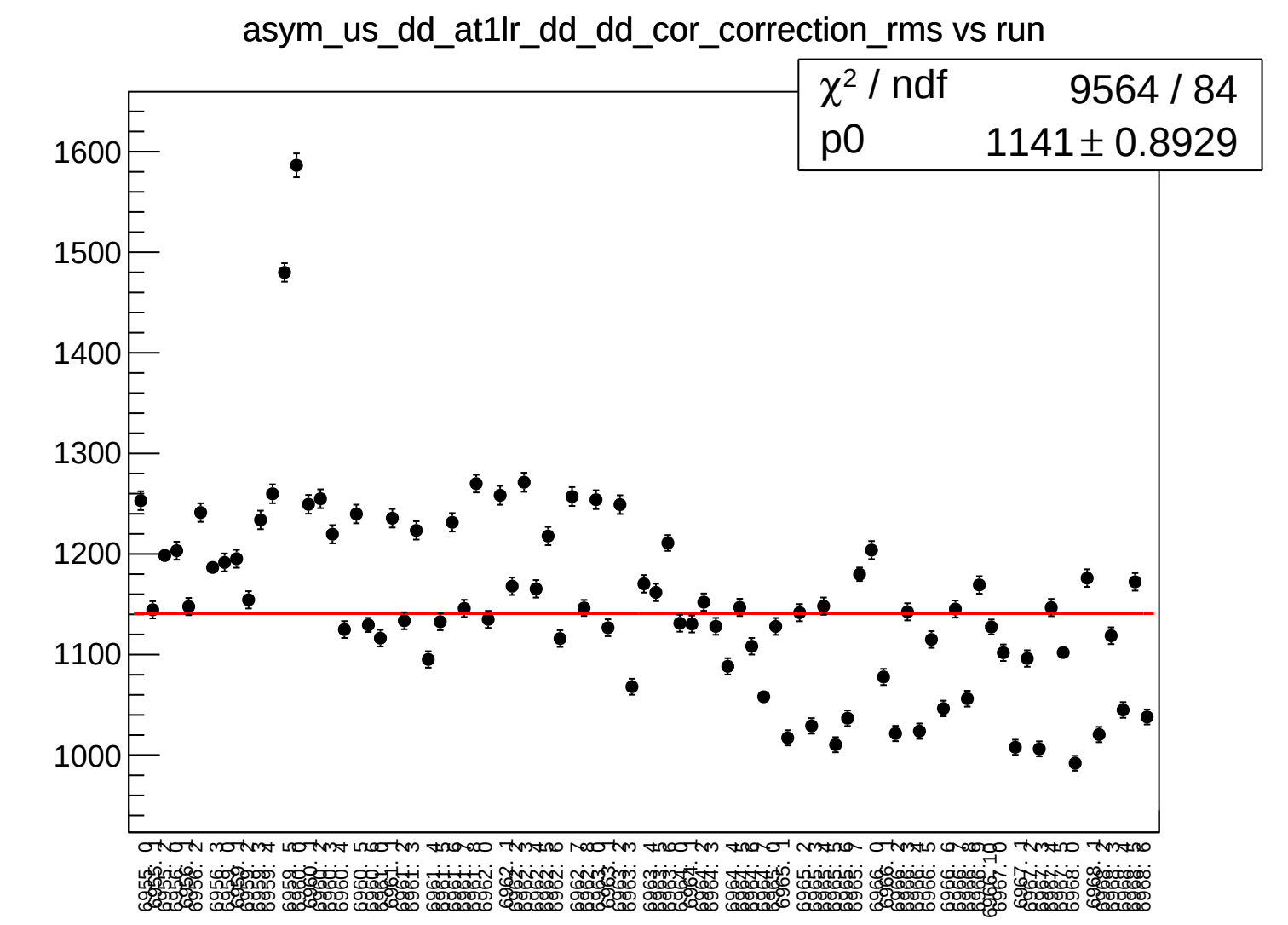

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 128.7 / 84
p0 −2031 ± 1904
pull
Entries 85
Mean 240.5
Std Dev 0

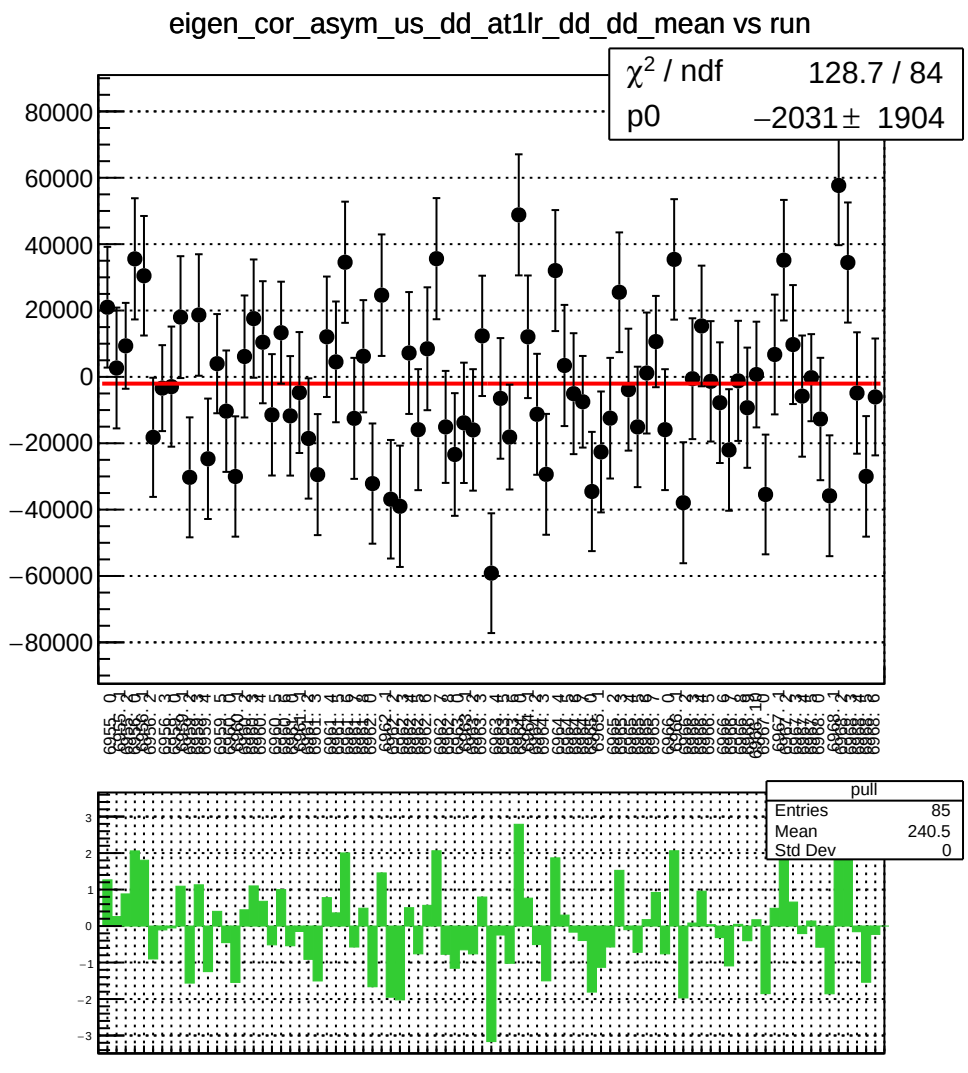

pull1D
Entries 85
Mean −0.007002
Std Dev 1.231

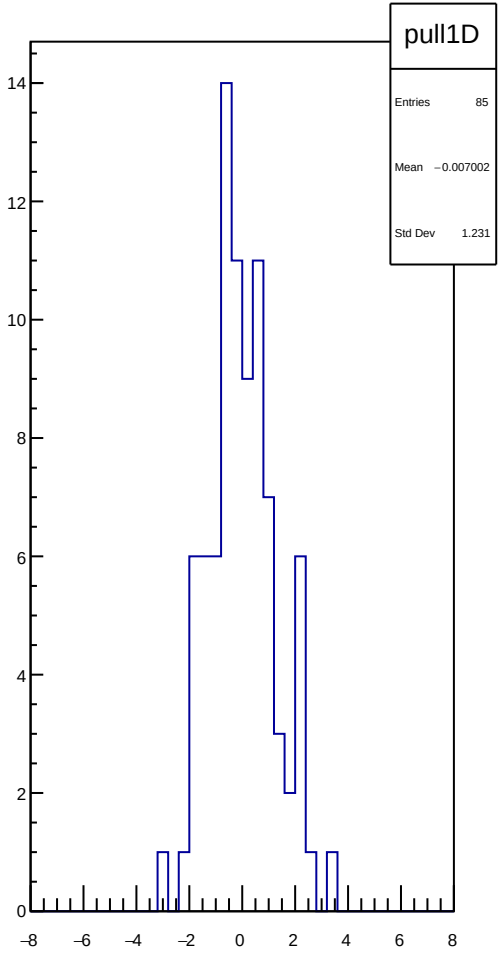

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 85.26 / 84
p0 1726 ± 1.346
1760
1740
1720
1700
1680

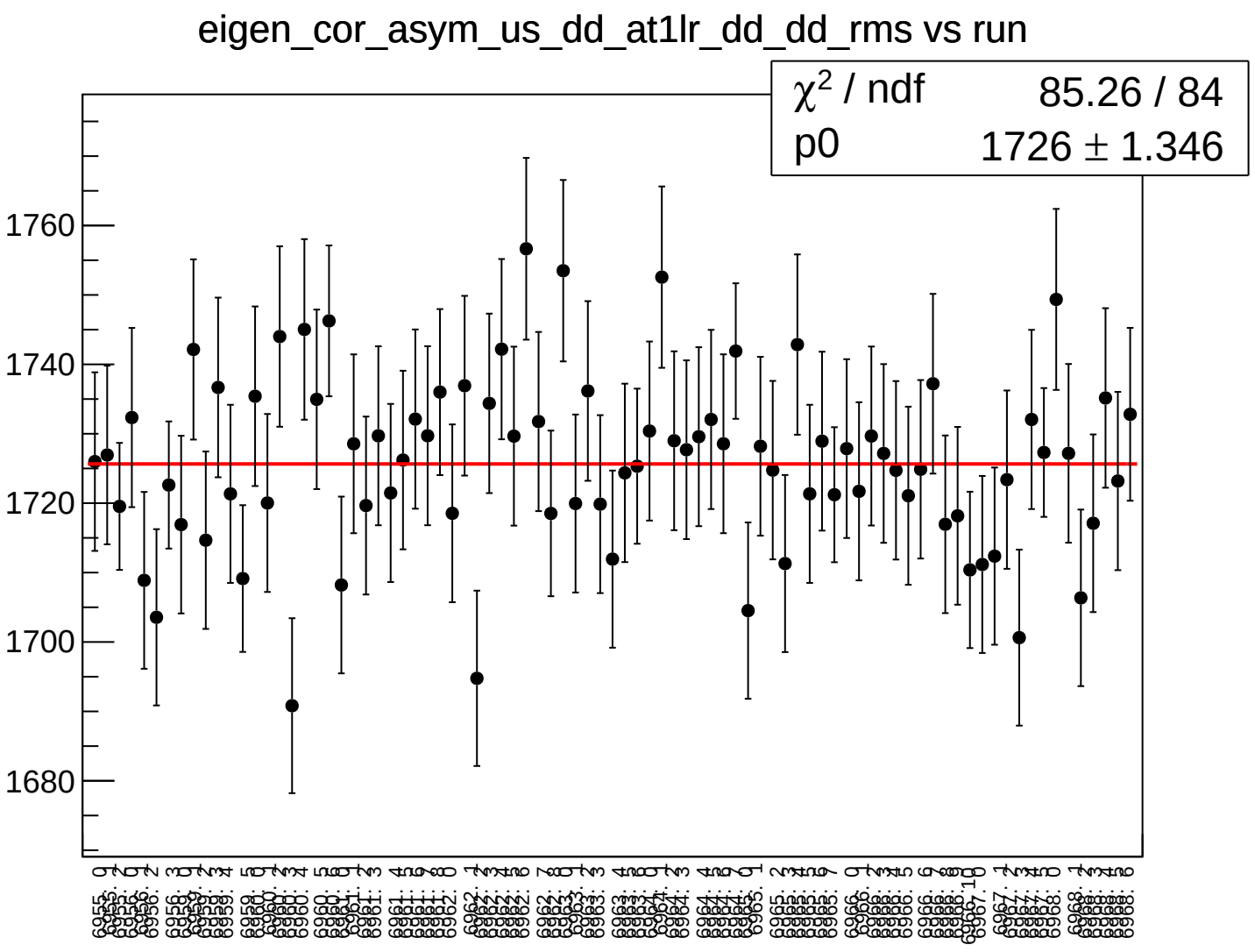

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 94.68 / 84
p0 −362.5 ± 1263
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −42.86
Std Dev 0
3
2
1
0
−1
−2

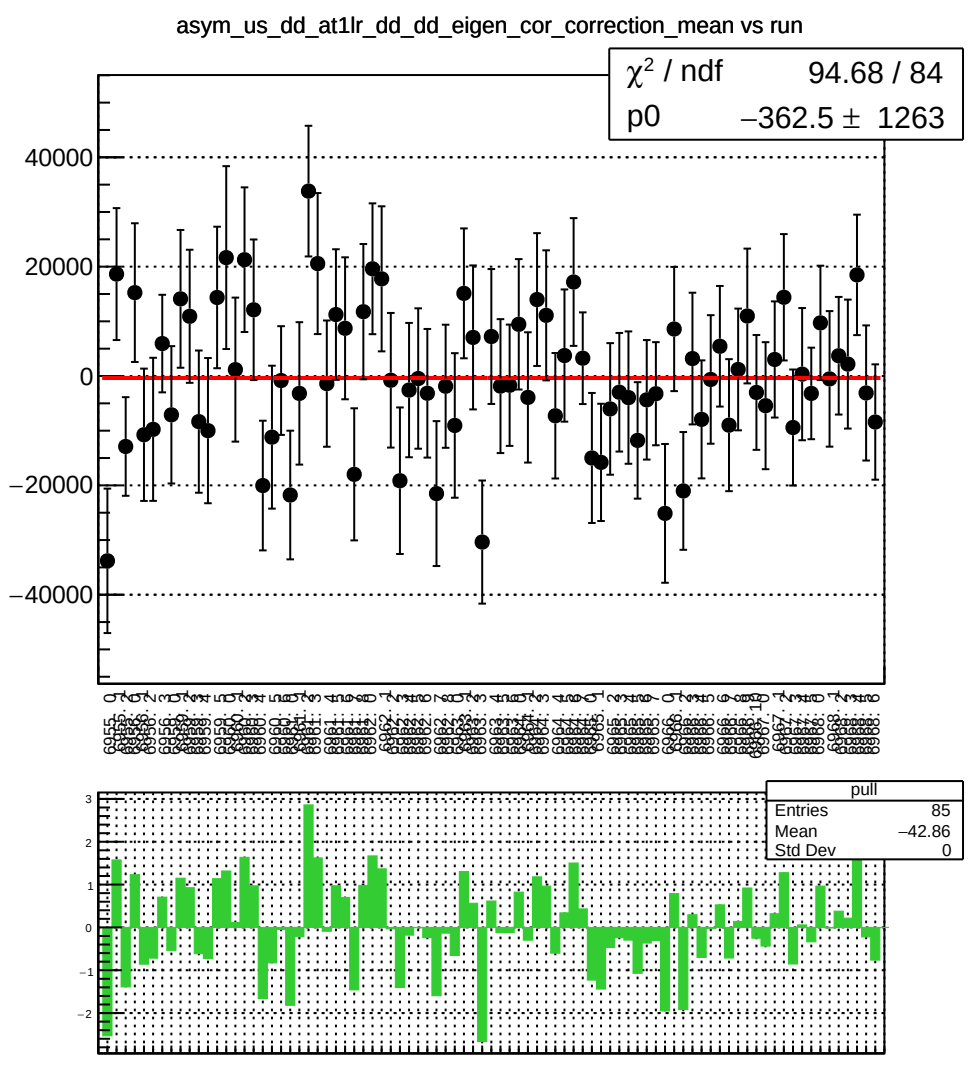

pull1D
Entries 85
Mean 0.01312
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

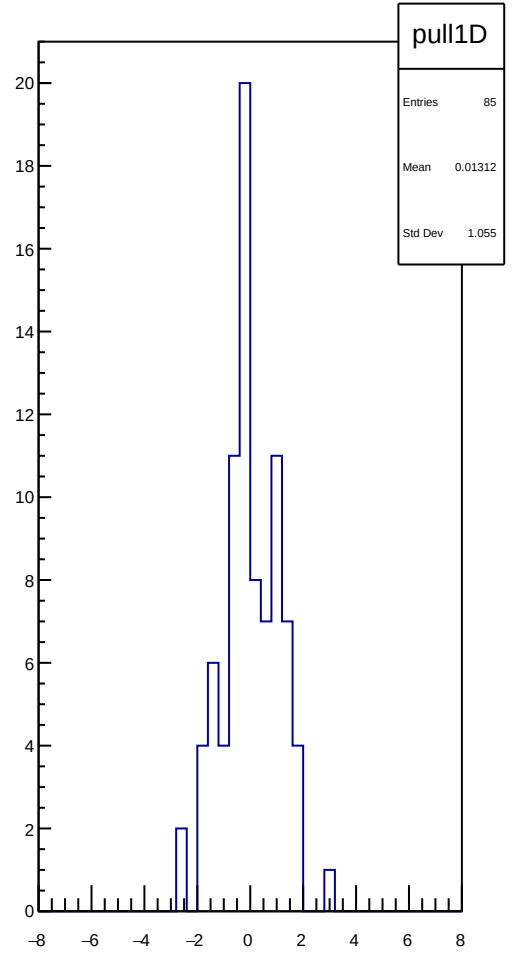

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 9564 / 84
p0 1141 ± 0.8929
1600
1500
1400
1300
1200
1100
1000

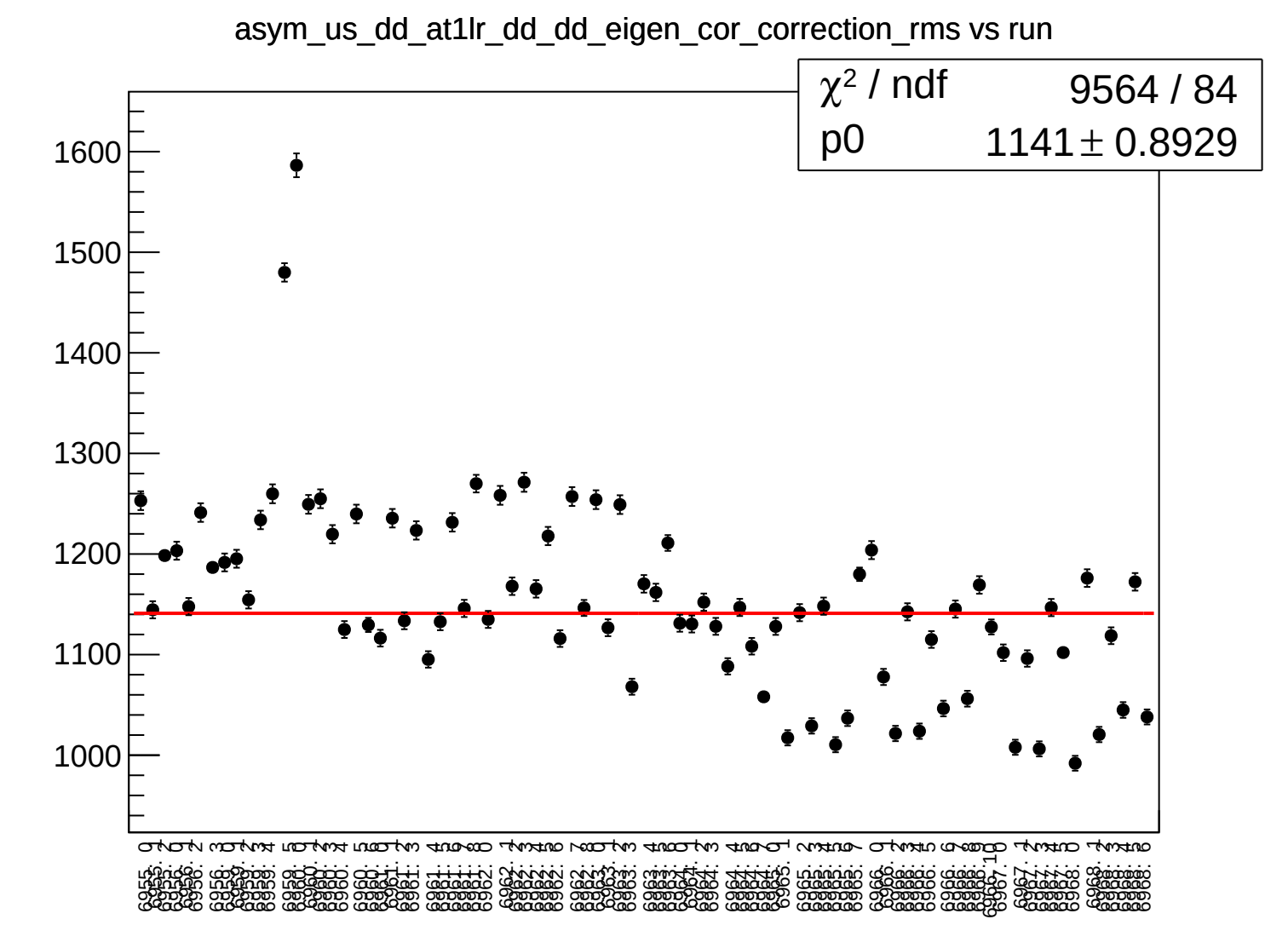

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 128.7 / 84
p0 −2031 ± 1904
pull
Entries 85
Mean 240.5
Std Dev 0

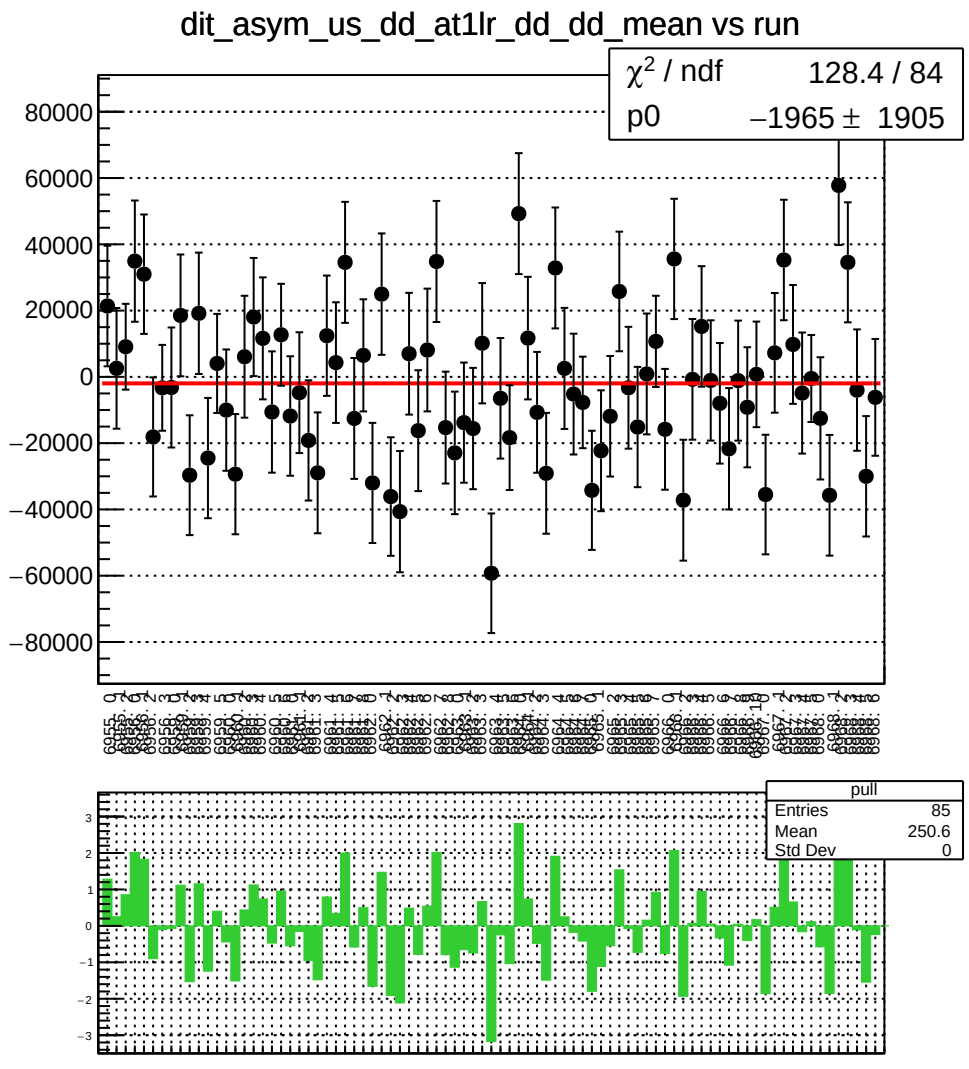

pull1D
Entries 85
Mean −0.007002
Std Dev 1.231

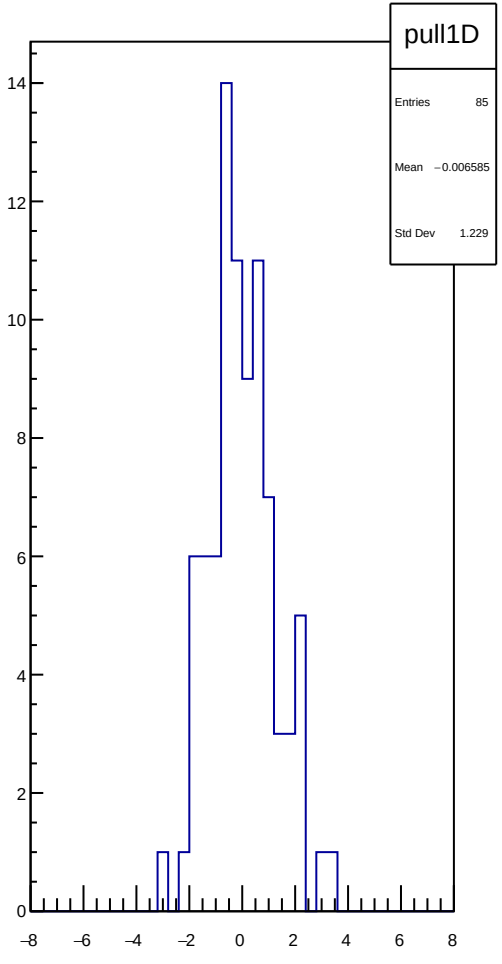

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
$\chi^2$ / ndf 85.26 / 84
p0 1726 ± 1.346
1760
1740
1720
1700
1680

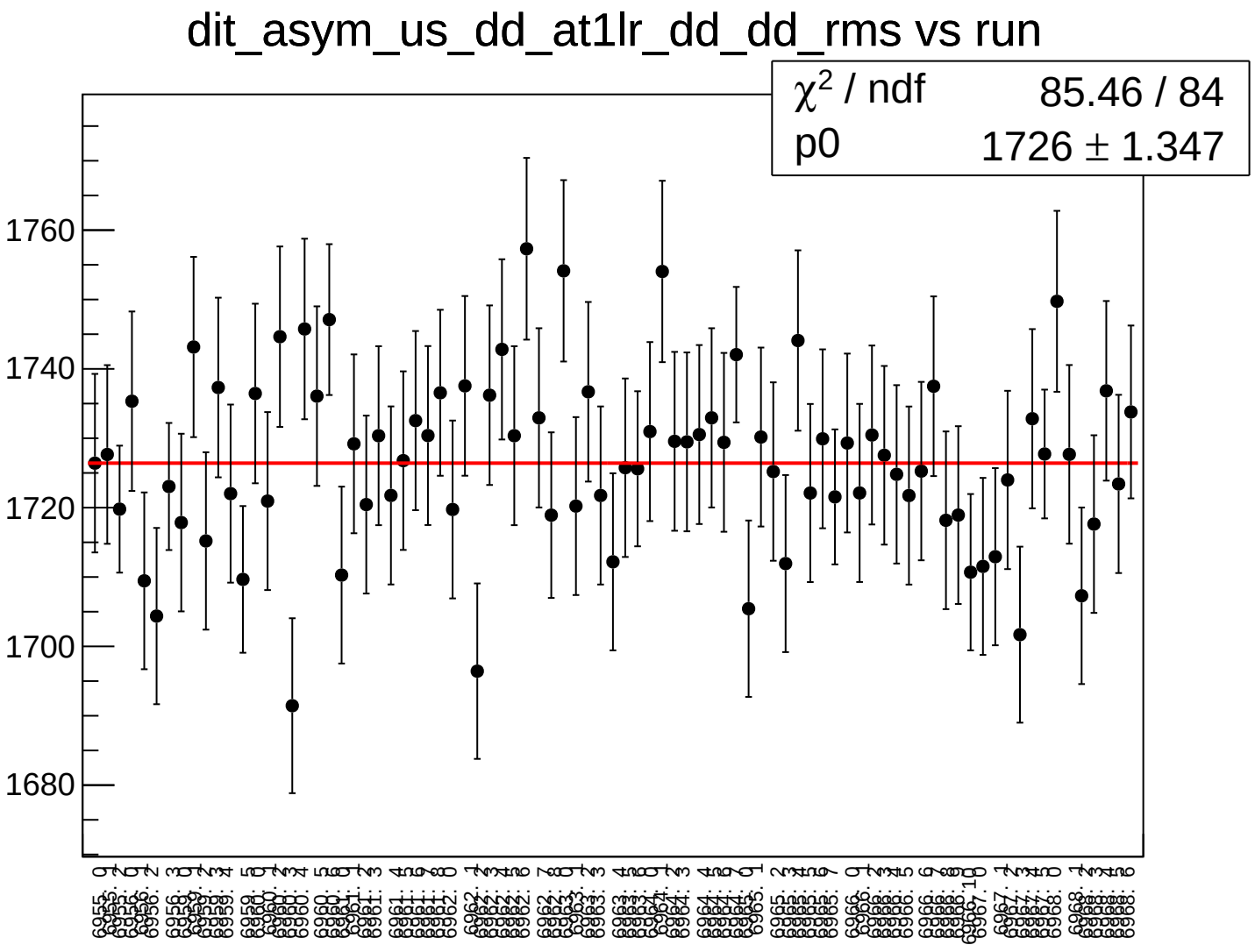

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.68 / 84
p0 −362.5 ± 1263
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −42.86
Std Dev 0
3
2
1
0
−1
−2

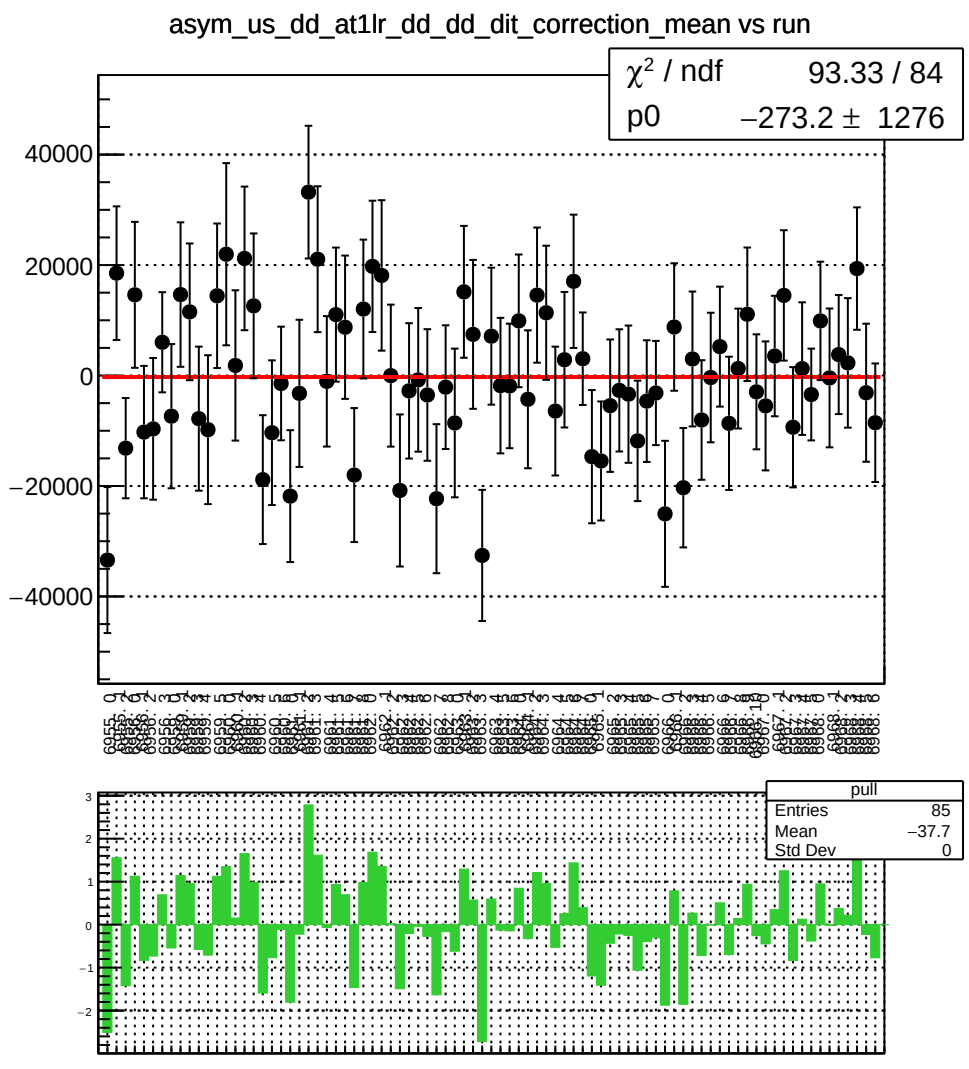

pull1D
Entries 85
Mean 0.01312
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

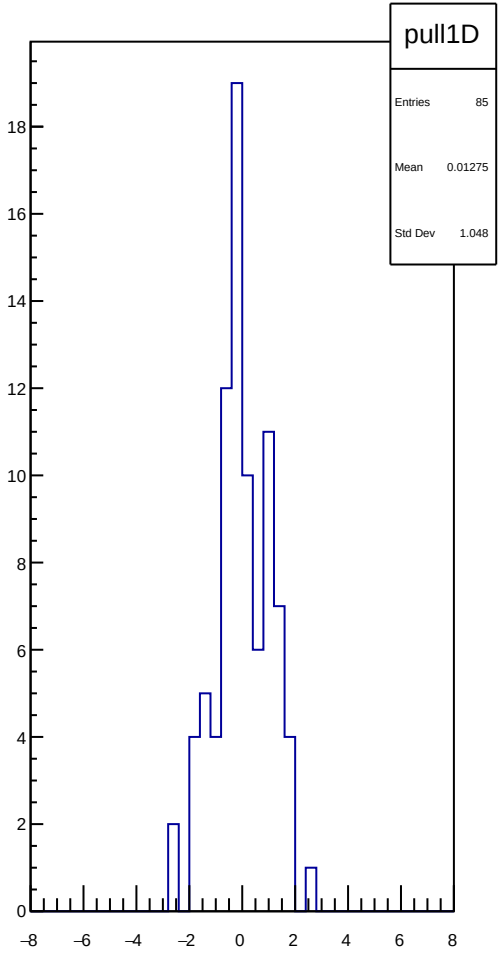

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9564 / 84
p0 1141 ± 0.8929
1600
1500
1400
1300
1200
1100
1000

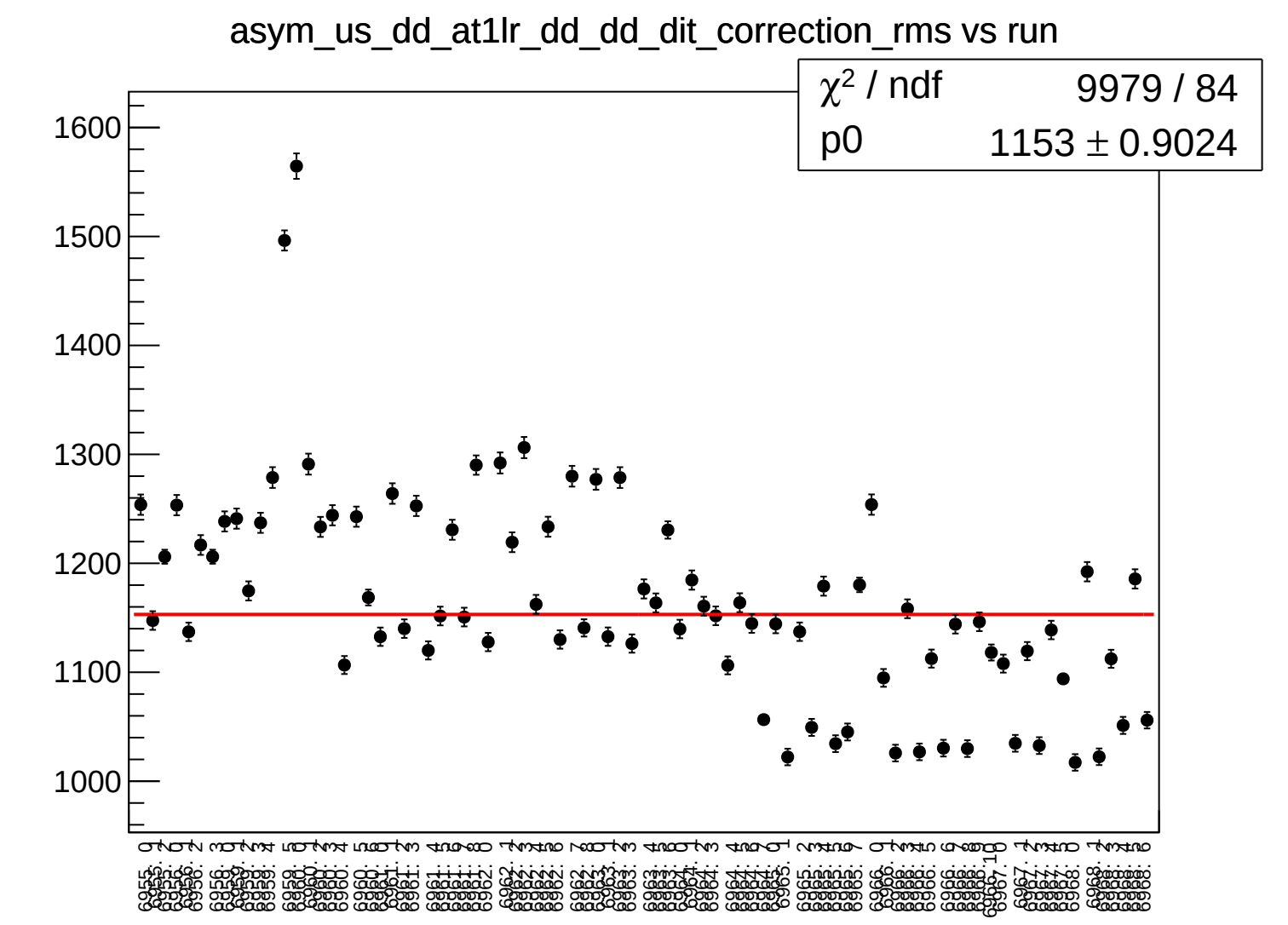

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 128.4 / 84
p0 −1965 ± 1905
pull
Entries 85
Mean 250.6
Std Dev 0

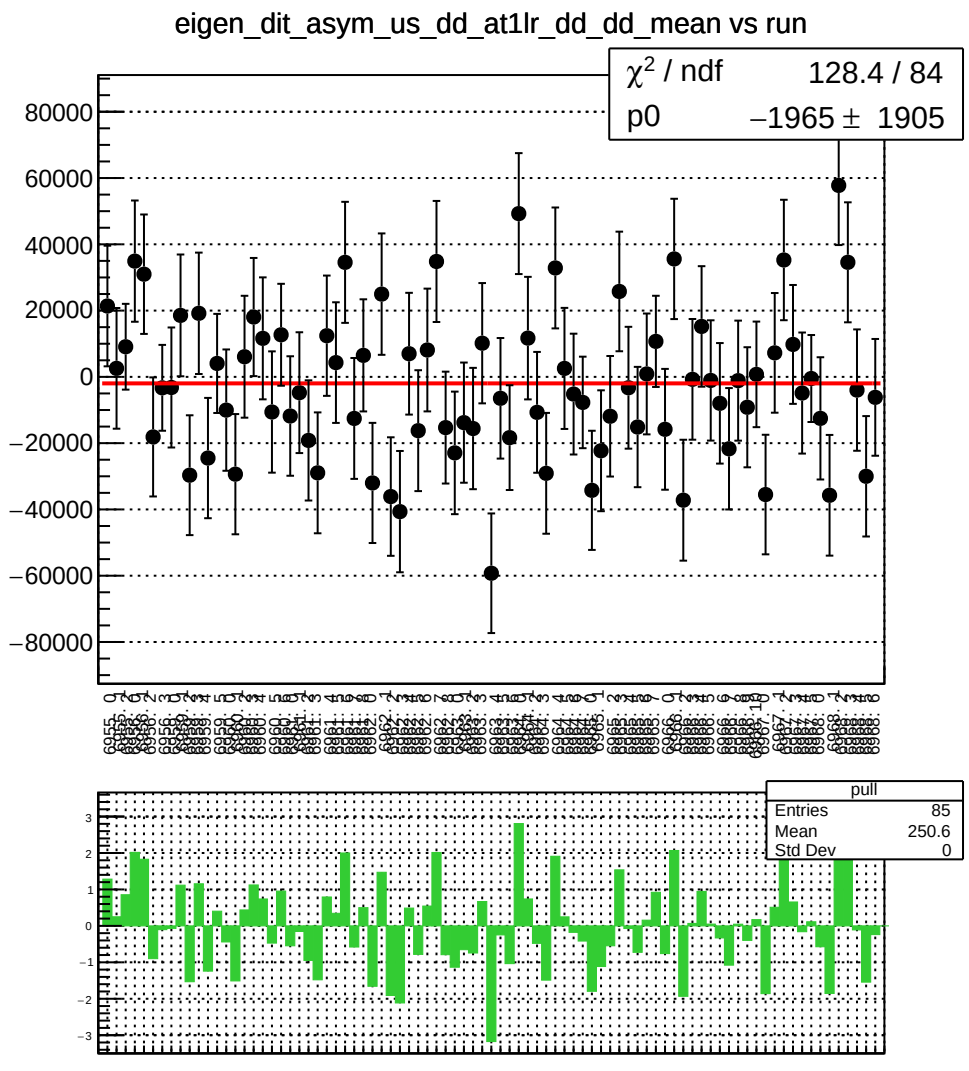

pull1D
Entries 85
Mean −0.006585
Std Dev 1.229

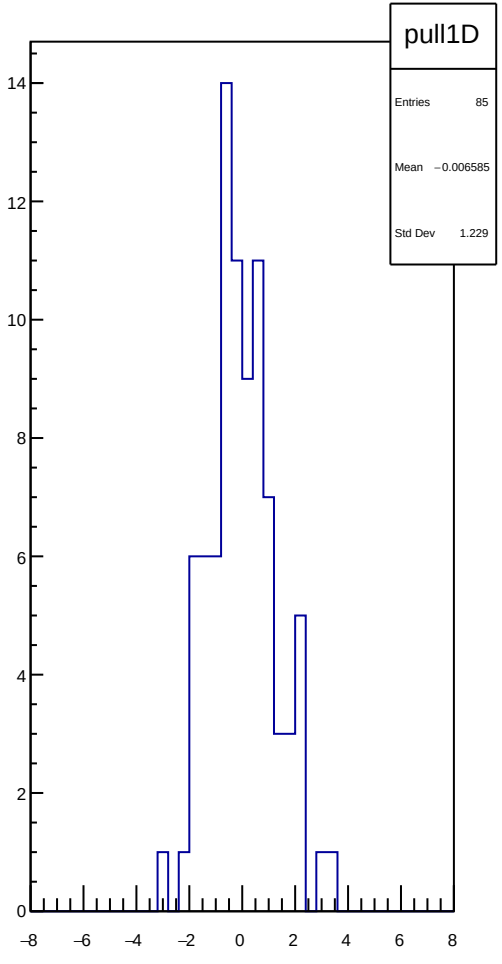

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 85.46 / 84
p0 1726 ± 1.347
1760
1740
1720
1700
1680

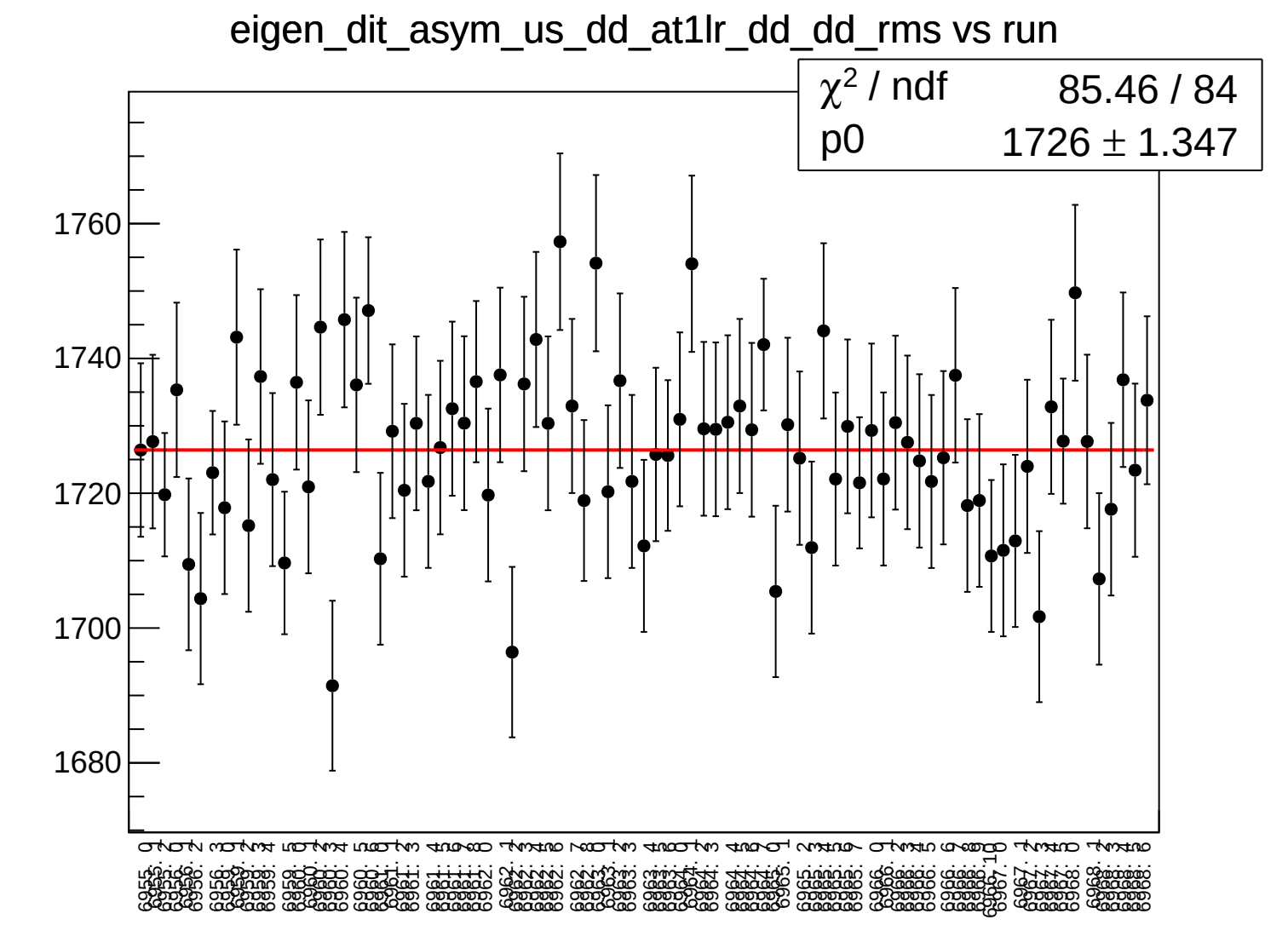

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 93.33 / 84
p0 −273.2 ± 1276
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −37.7
Std Dev 0
3
2
1
0
−1
−2

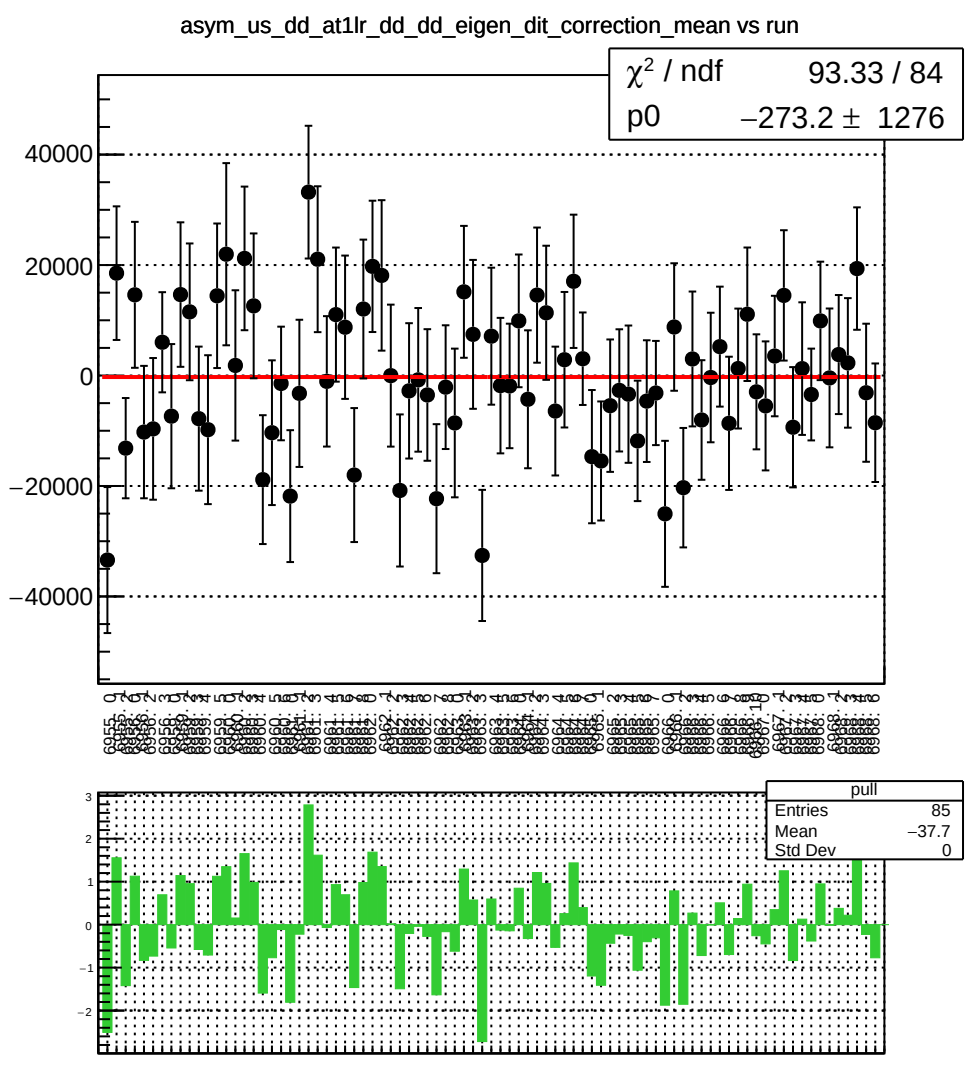

pull1D
Entries 85
Mean 0.01275
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

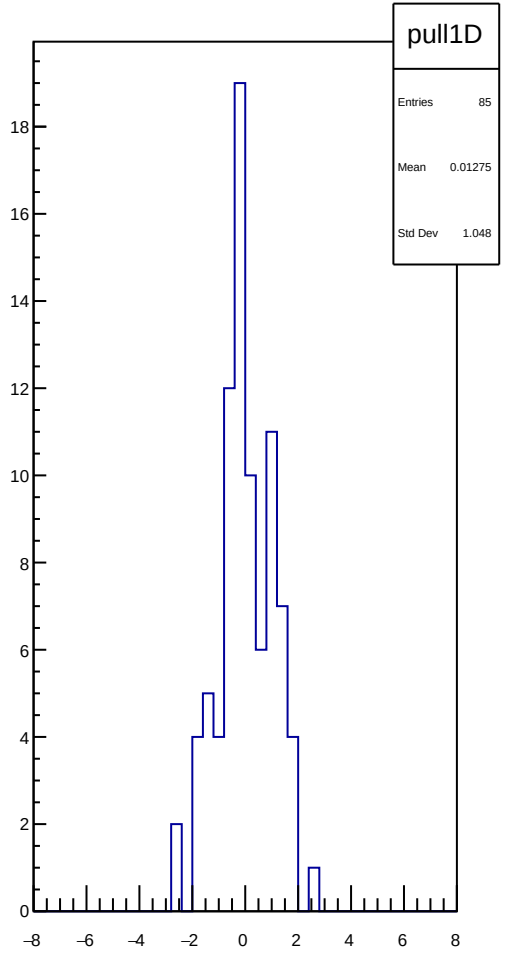

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 9979 / 84
p0 1153 ± 0.9024
1600
1500
1400
1300
1200
1100
1000

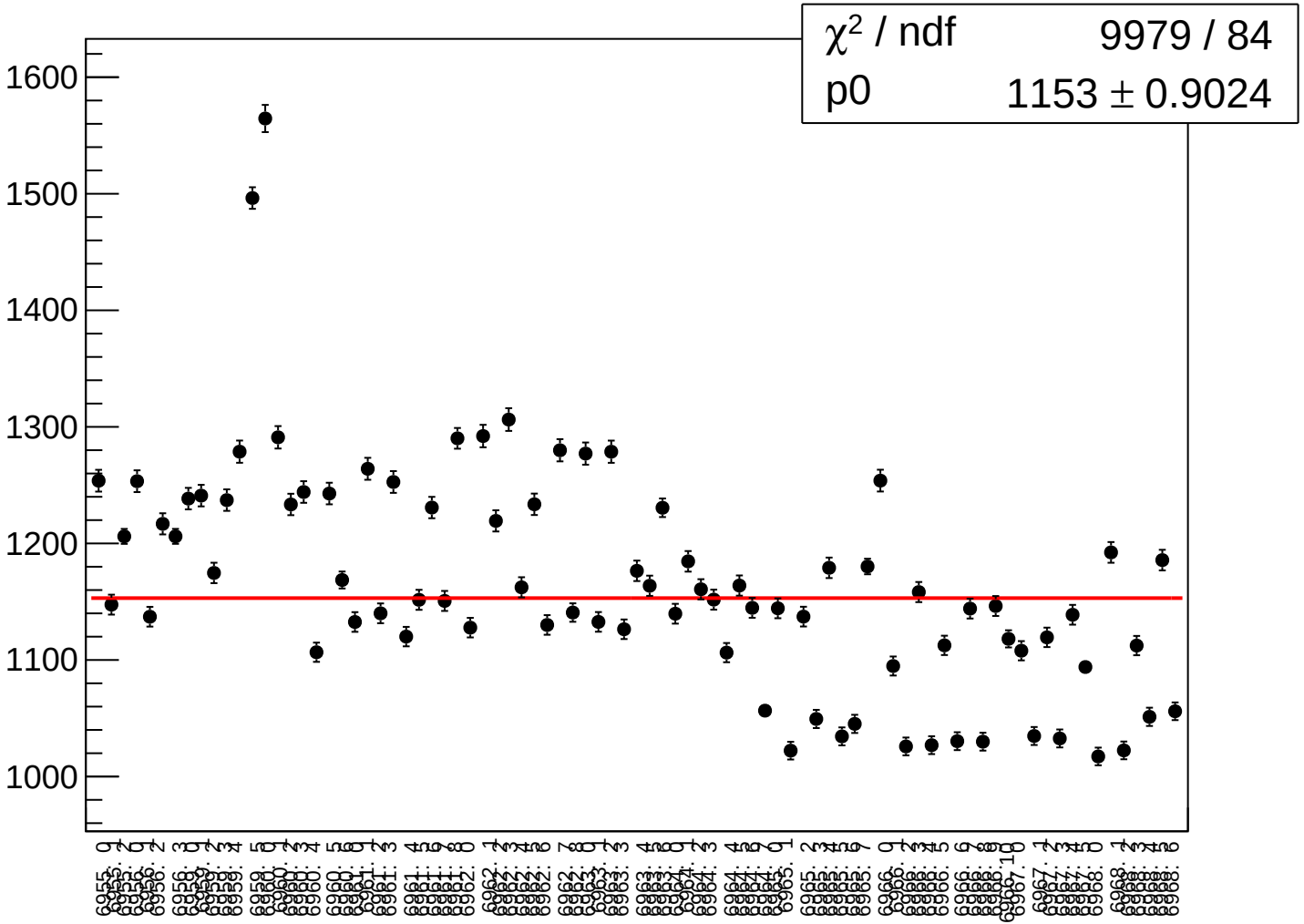

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 128.4 / 84
p0 −1965 ± 1905
pull
Entries 85
Mean 250.6
Std Dev 0

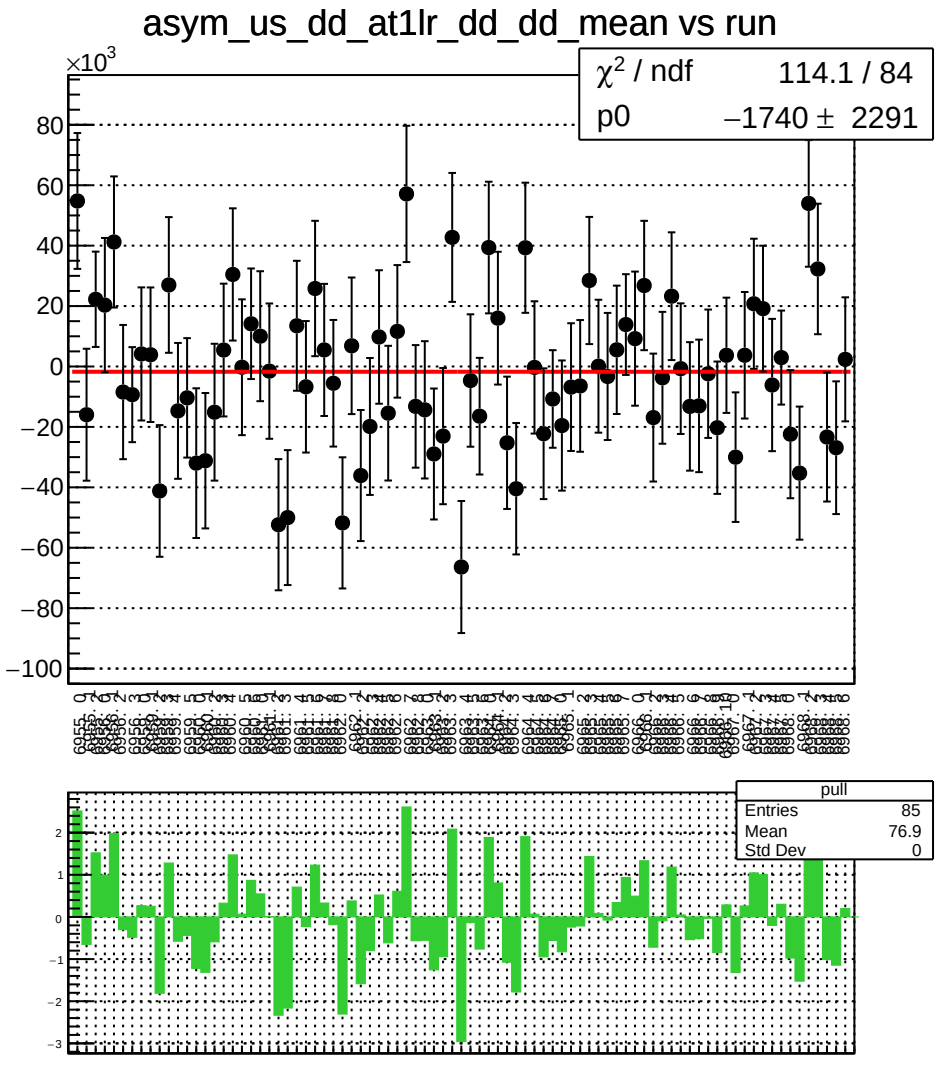

pull1D
Entries 85
Mean −0.006585
Std Dev 1.229

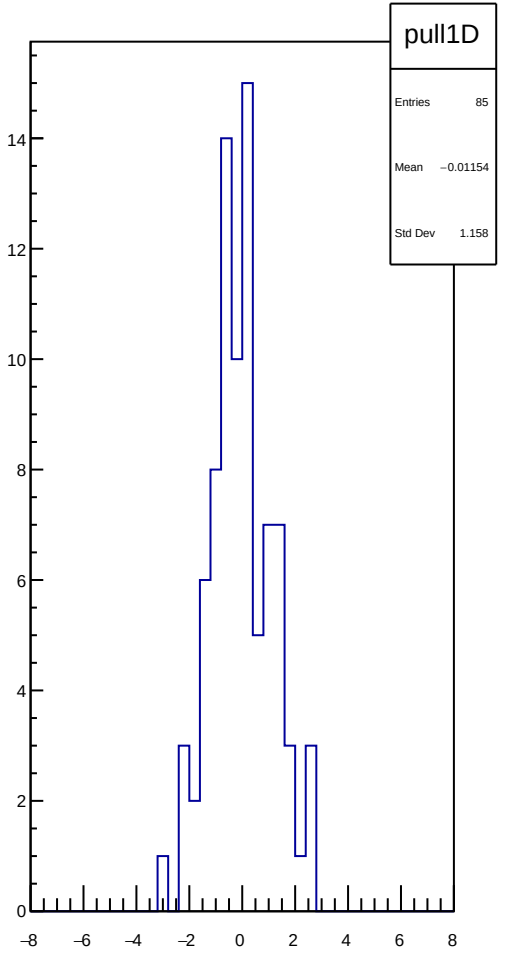

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
$\chi^2$ / ndf 85.46 / 84
p0 1726 ± 1.347
1760
1740
1720
1700
1680

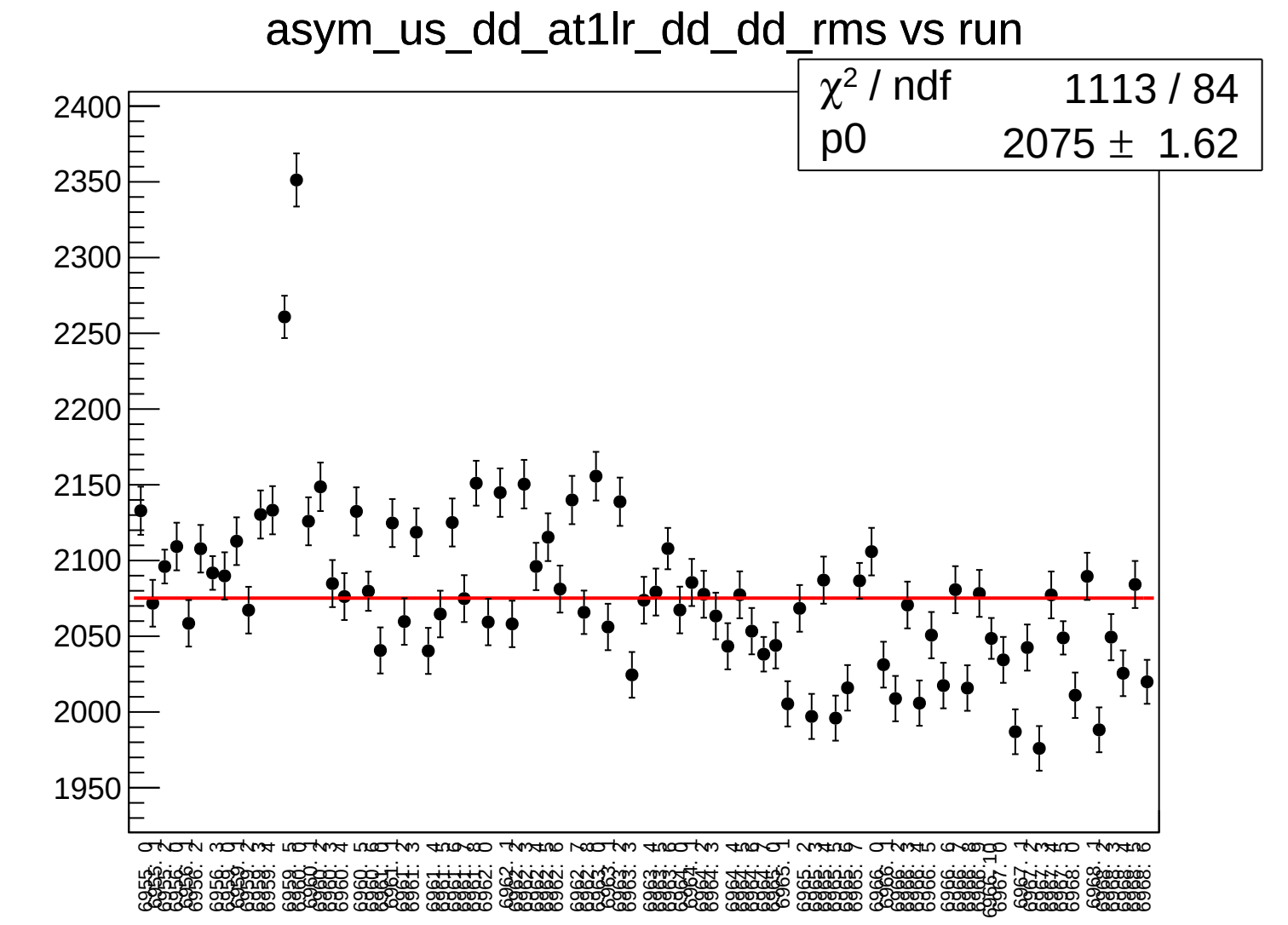

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.33 / 84
p0 −273.2 ± 1276
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −37.7
Std Dev 0
3
2
1
0
−1
−2

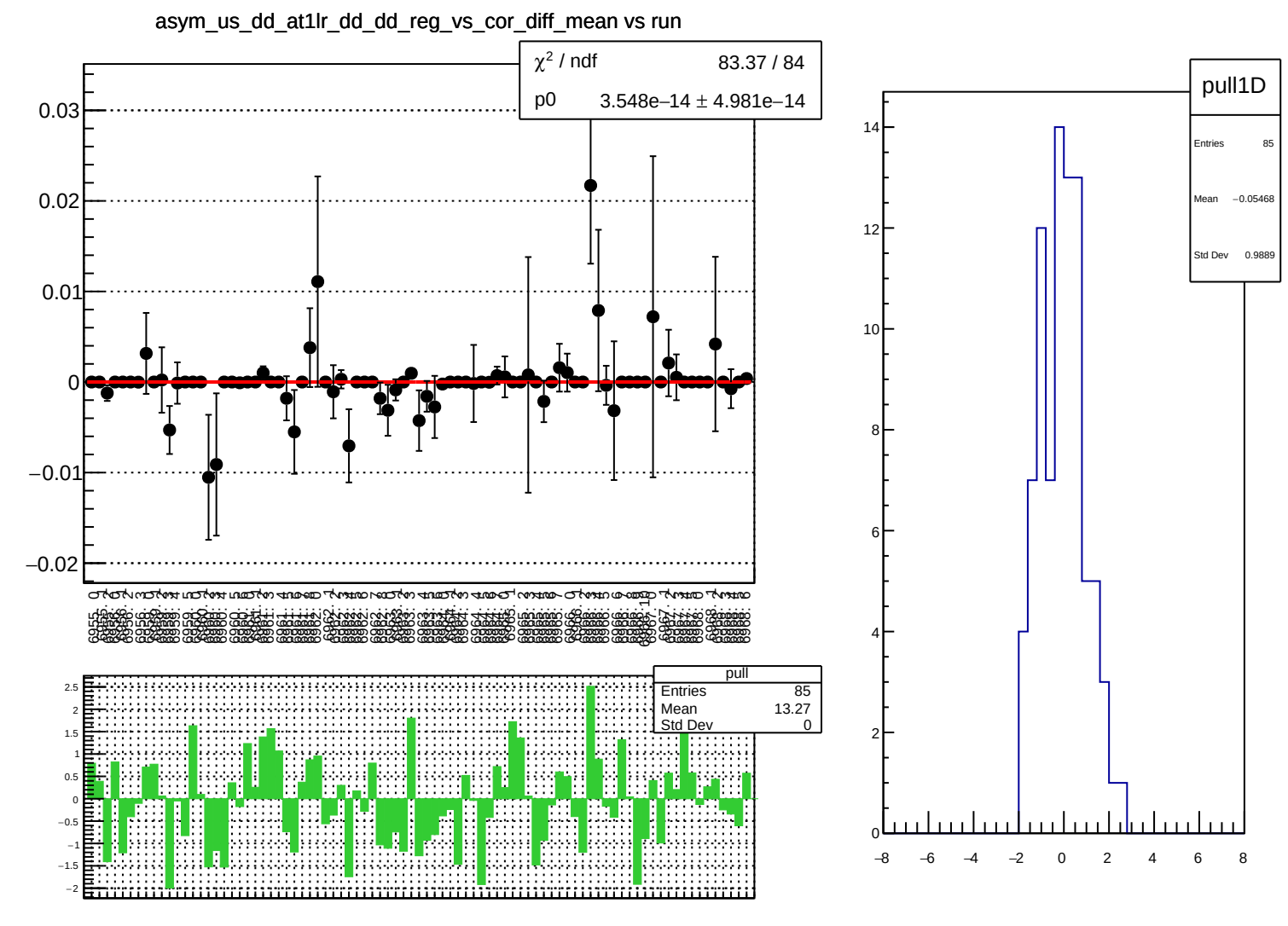

pull1D
Entries 85
Mean 0.01275
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

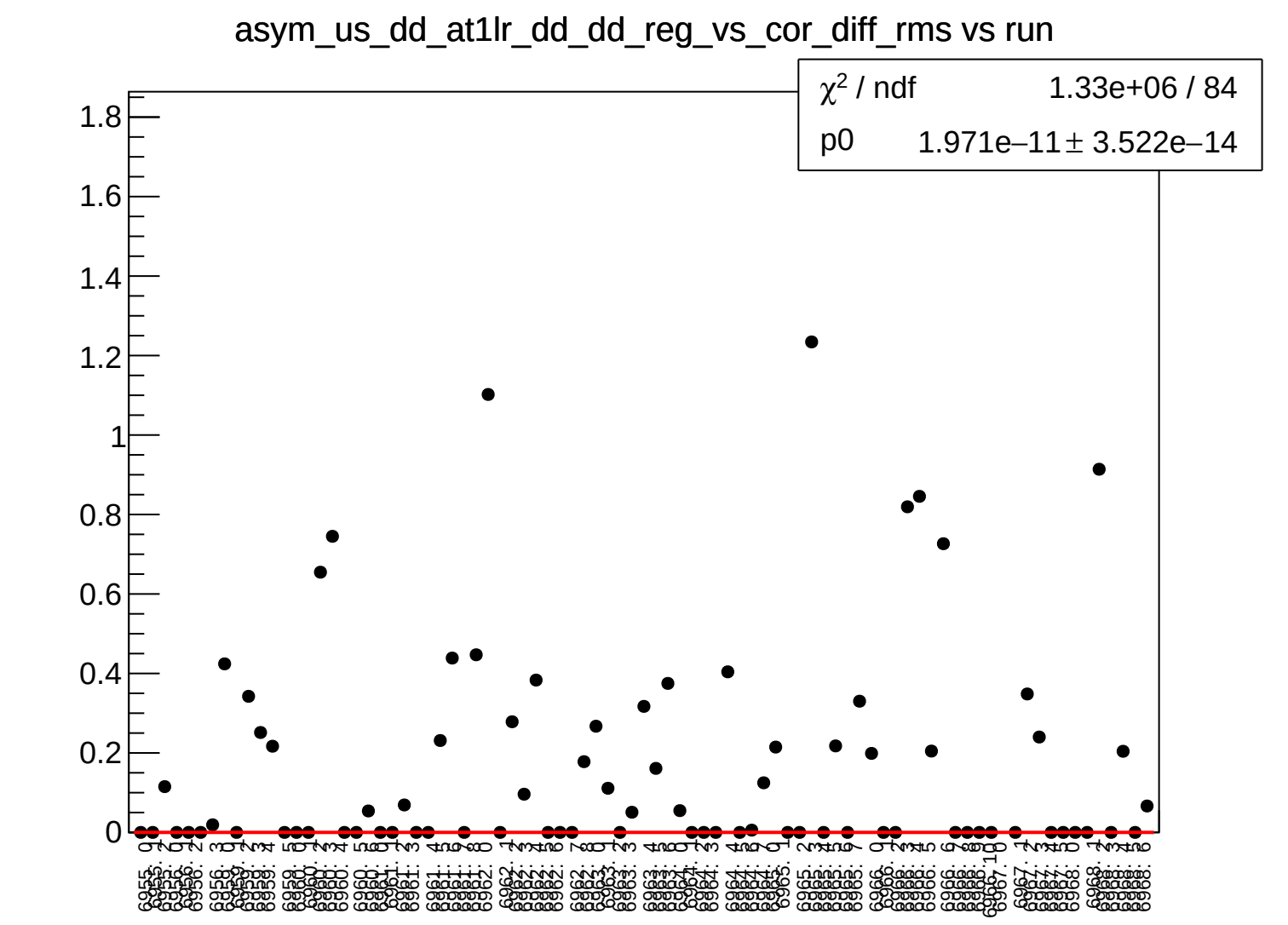

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 9979 / 84
p0 1153 ± 0.9024
1600
1500
1400
1300
1200
1100
1000

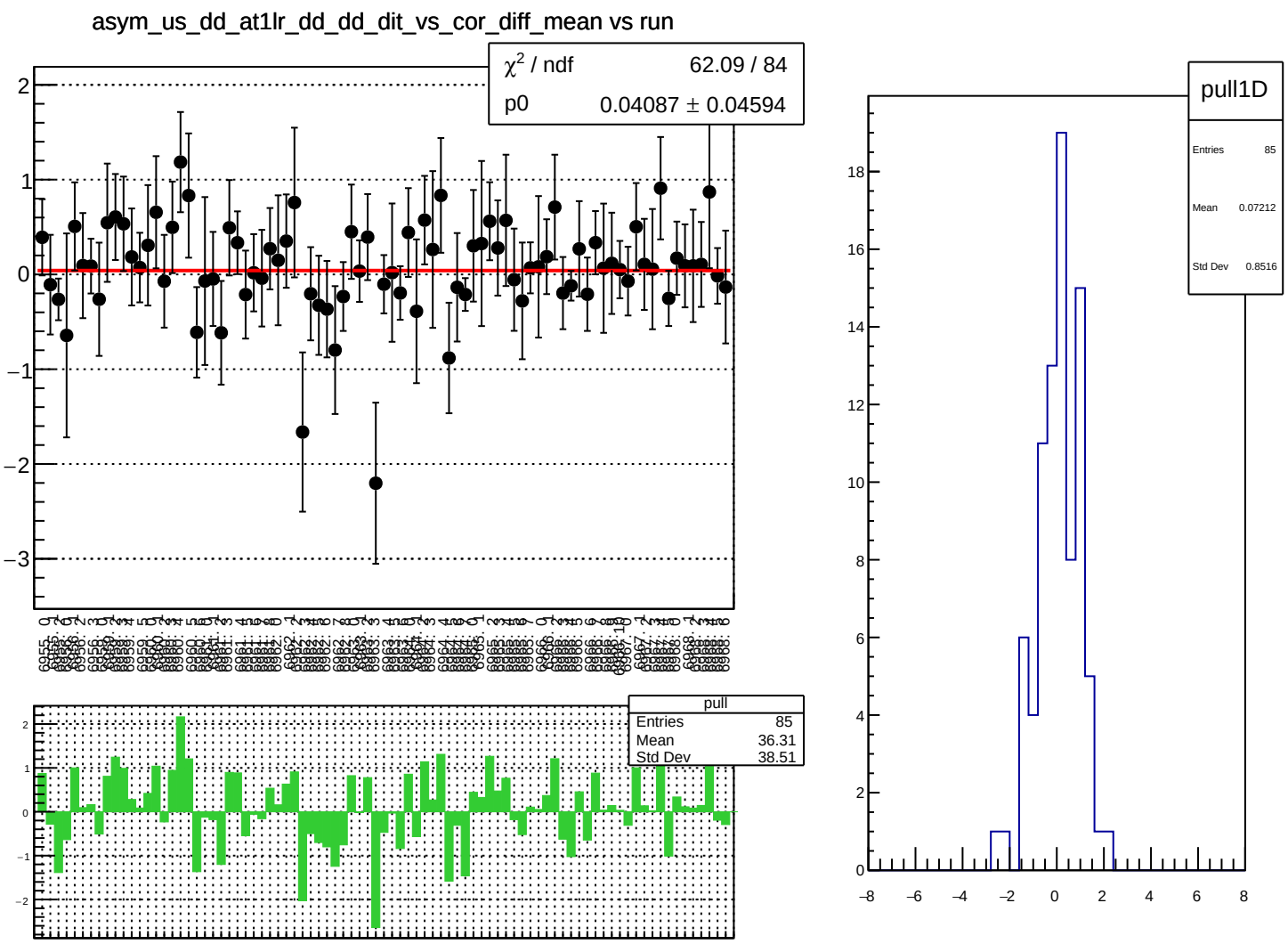

asym_us_dd_at1lr_dd_dd_mean vs run
$\chi^2$ / ndf 114.1 / 84
p0 −1740 ± 2291
×10^3
pull
Entries 85
Mean 76.9
Std Dev 0

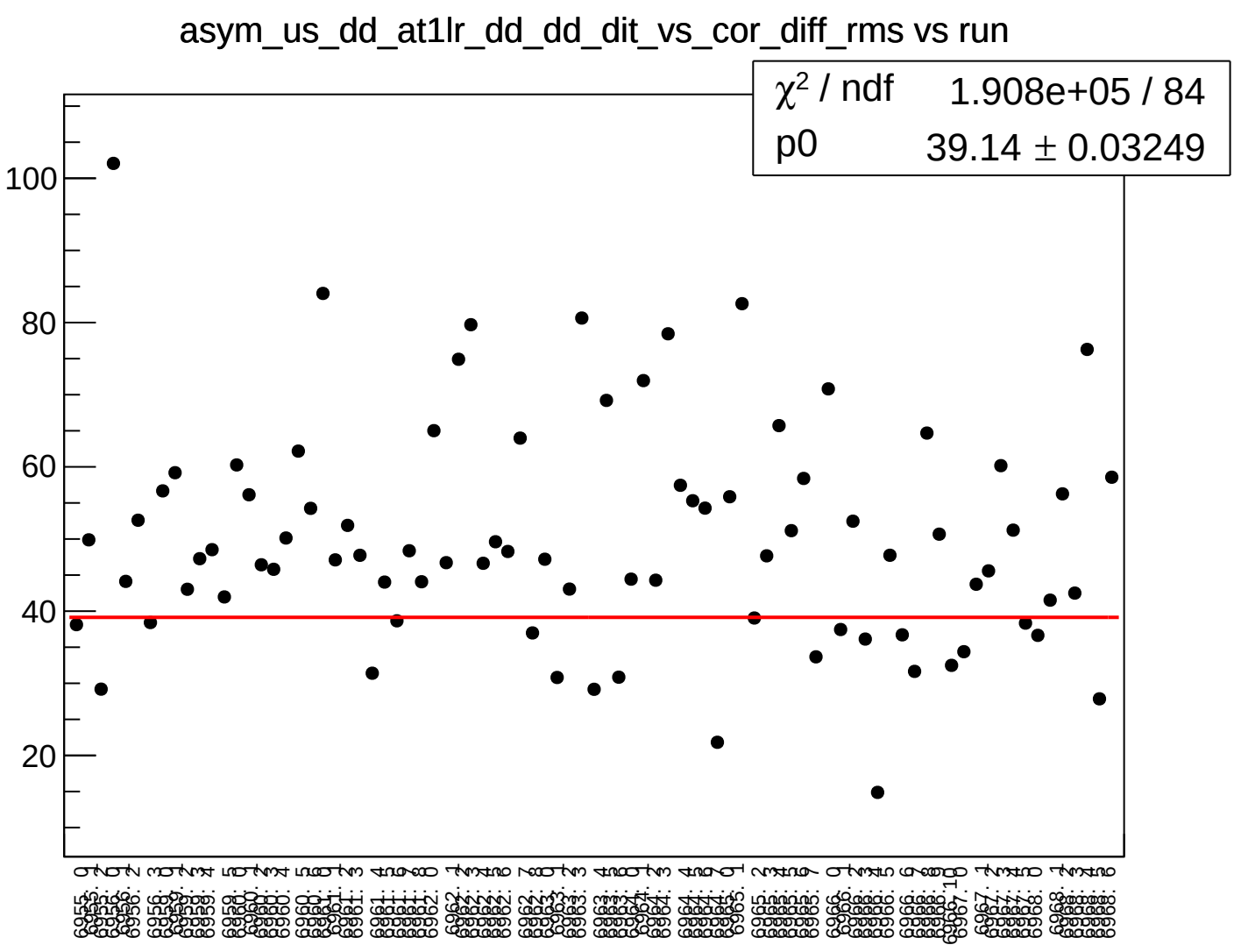

pull1D
Entries 85
Mean −0.01154
Std Dev 1.158

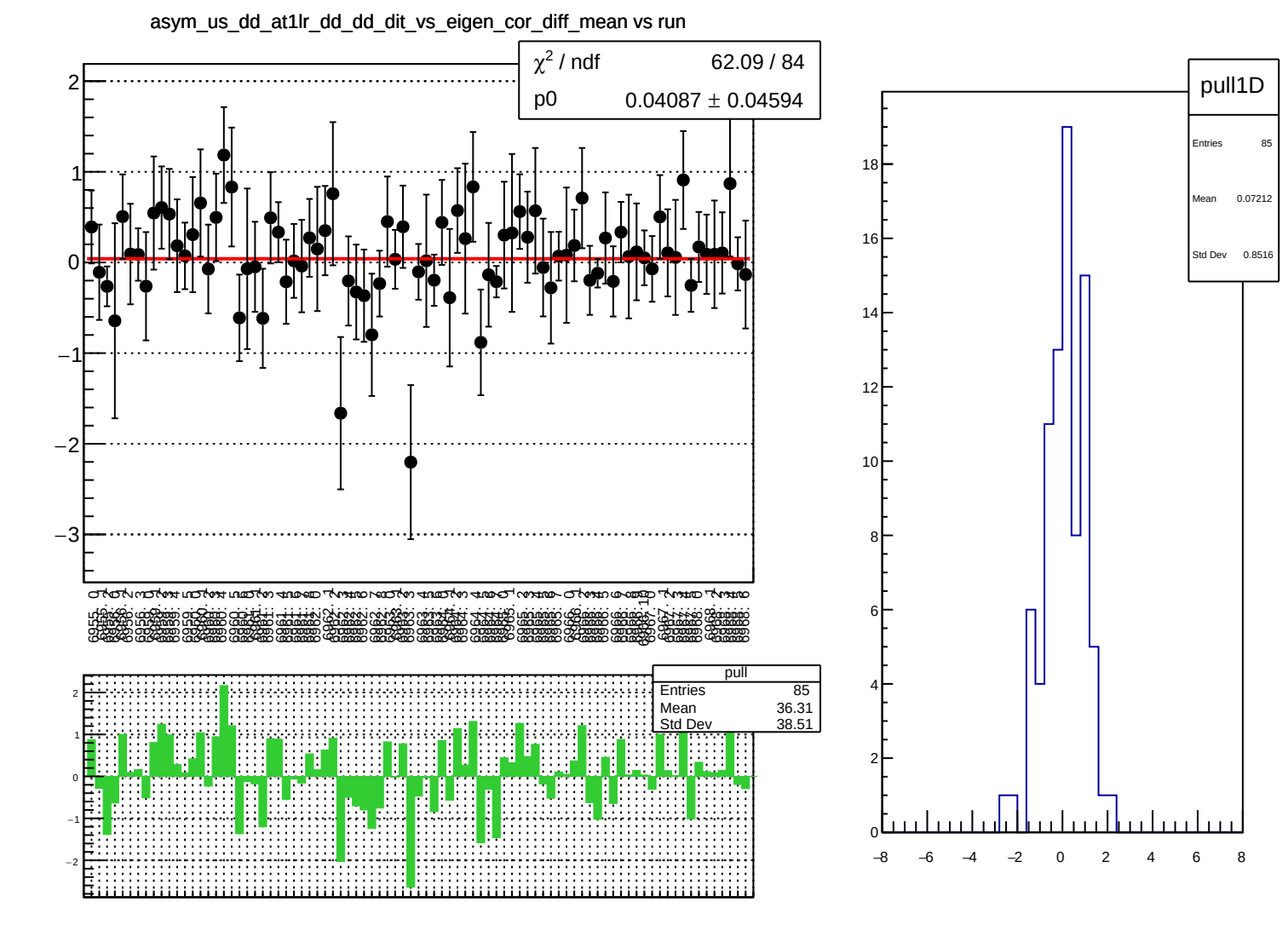

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1113 / 84
p0 2075 ± 1.62
2400
2350
2300
2250
2200
2150
2100
2050
2000
1950

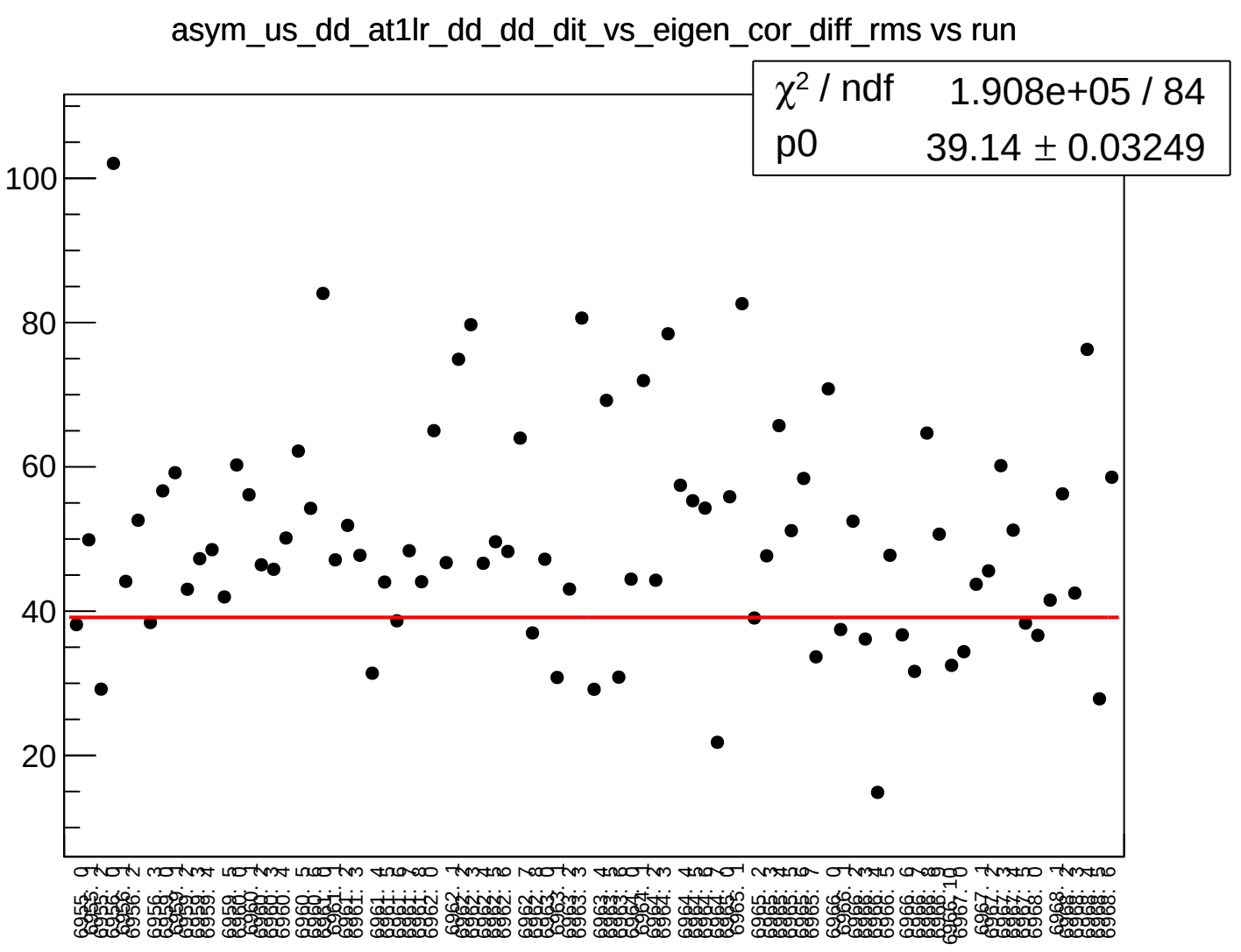

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.37 / 84
p0 3.548e−14 ± 4.981e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean 13.27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.05468
Std Dev 0.9889
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

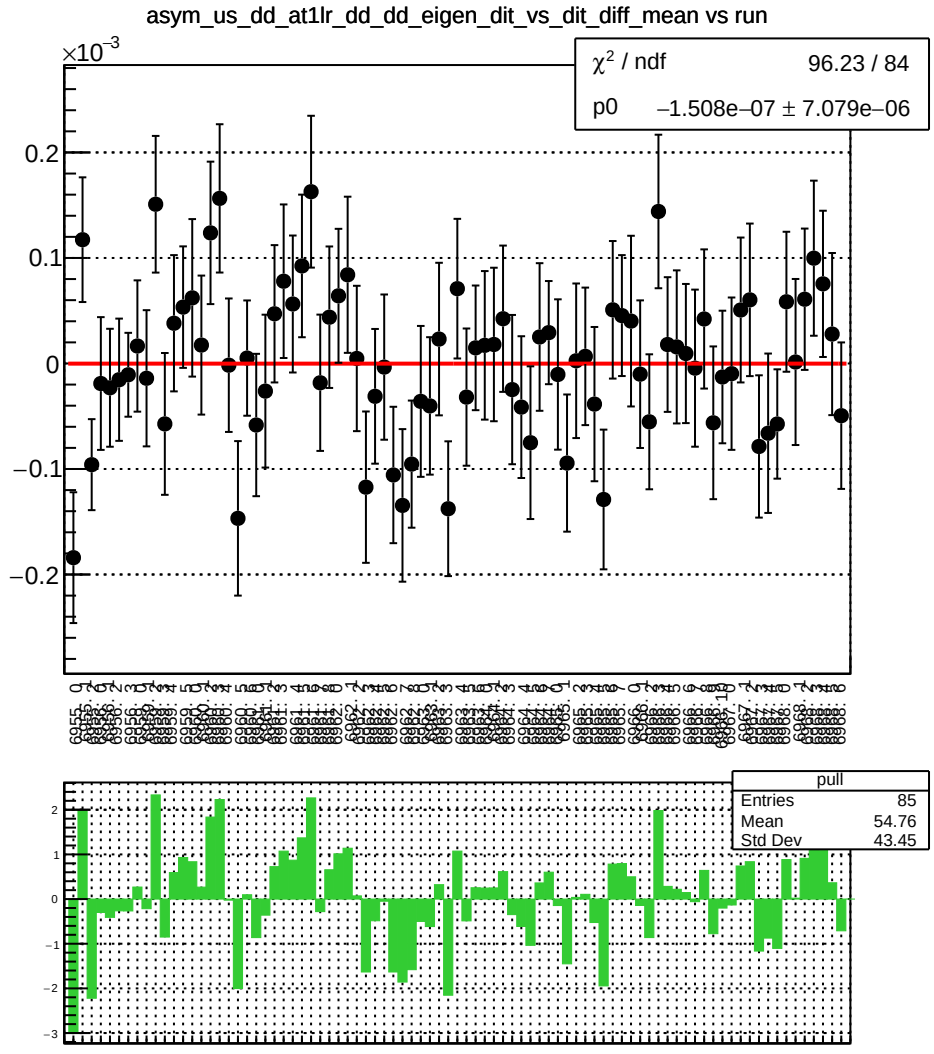

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.33e+06 / 84
p0 1.971e−11 ± 3.522e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

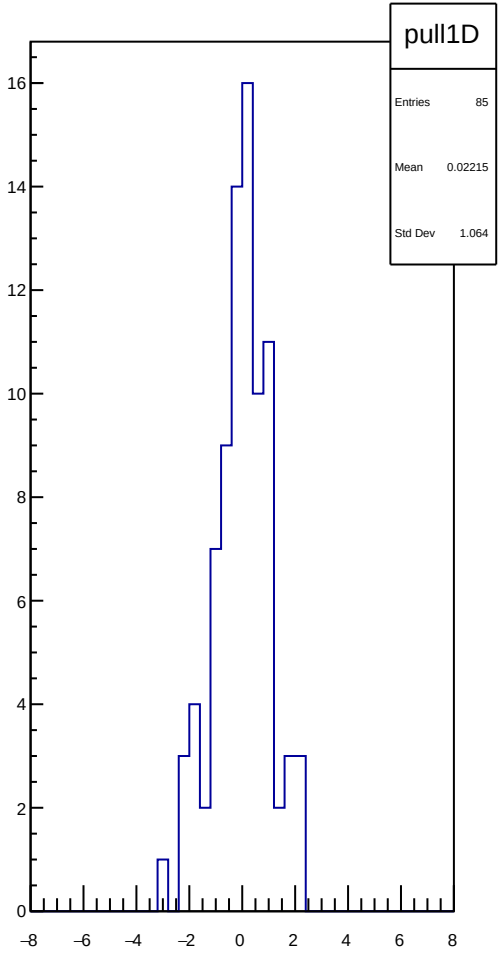

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 62.09 / 84
p0 0.04087 ± 0.04594
pull
Entries 85
Mean 36.31
Std Dev 38.51
pull1D
Entries 85
Mean 0.07212
Std Dev 0.8516

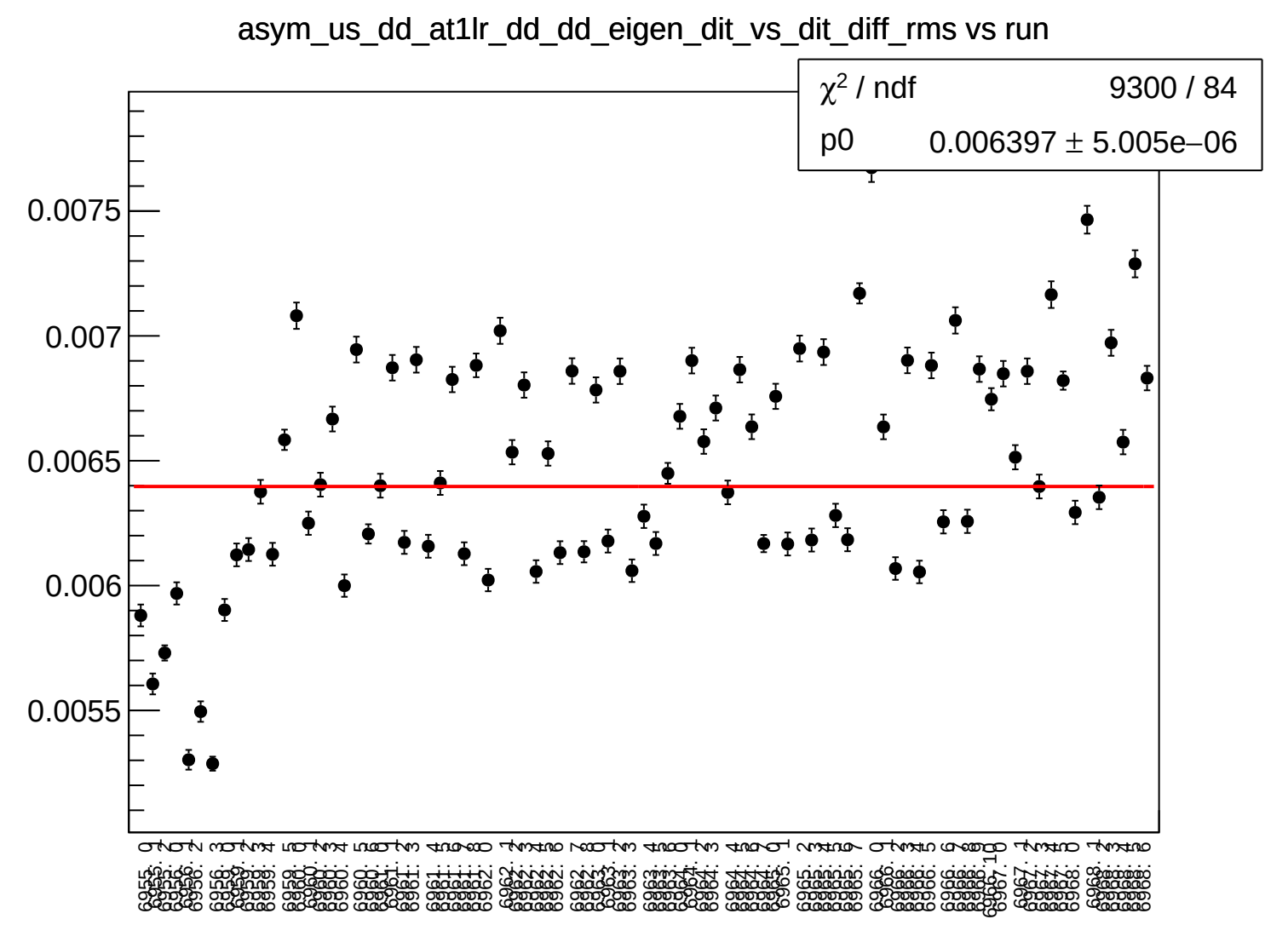

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.908e+05 / 84
p0 39.14 ± 0.03249
100
80
60
40
20

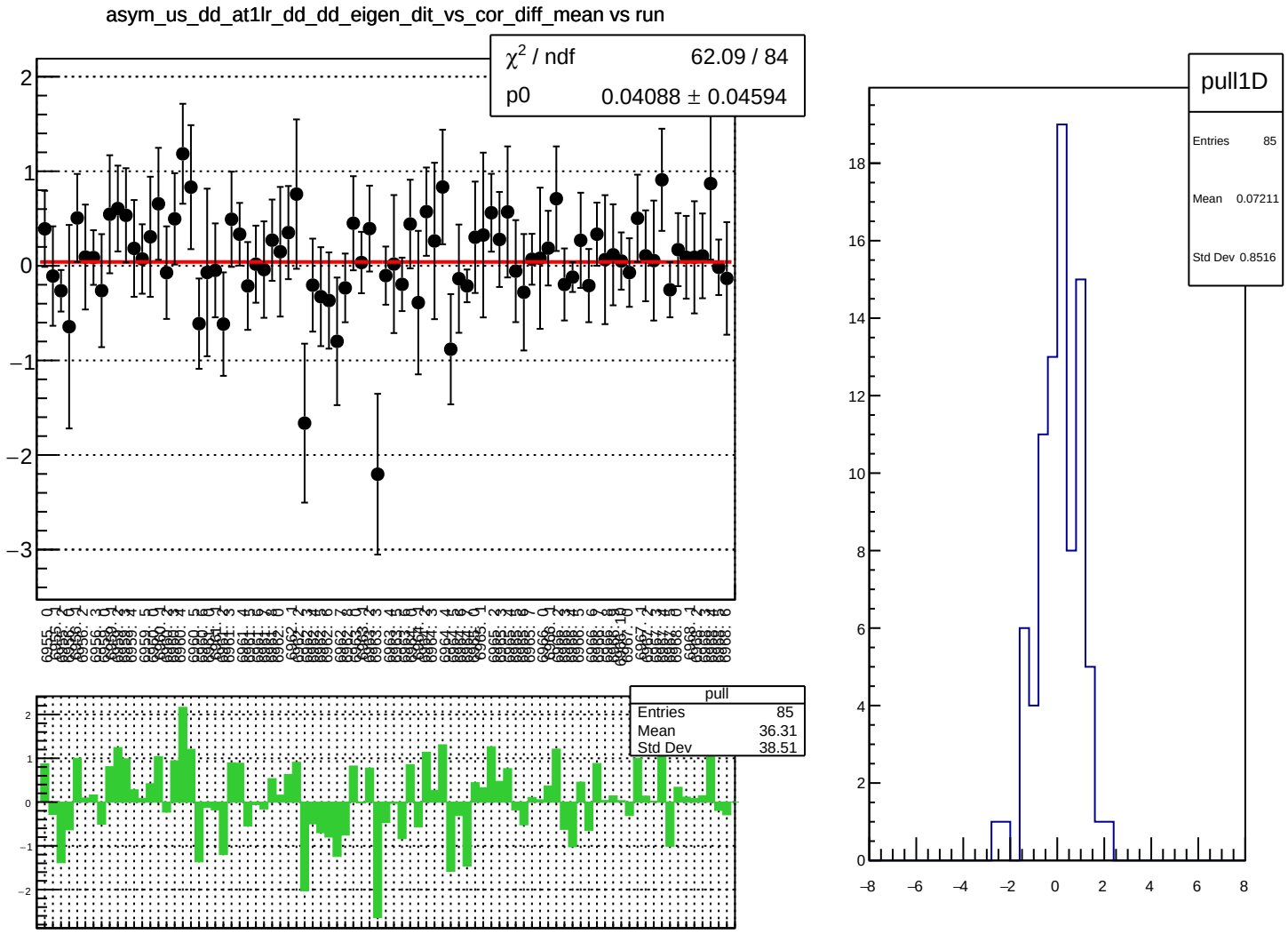

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.09 / 84
p0 0.04087 ± 0.04594
pull
Entries 85
Mean 36.31
Std Dev 38.51
pull1D
Entries 85
Mean 0.07212
Std Dev 0.8516

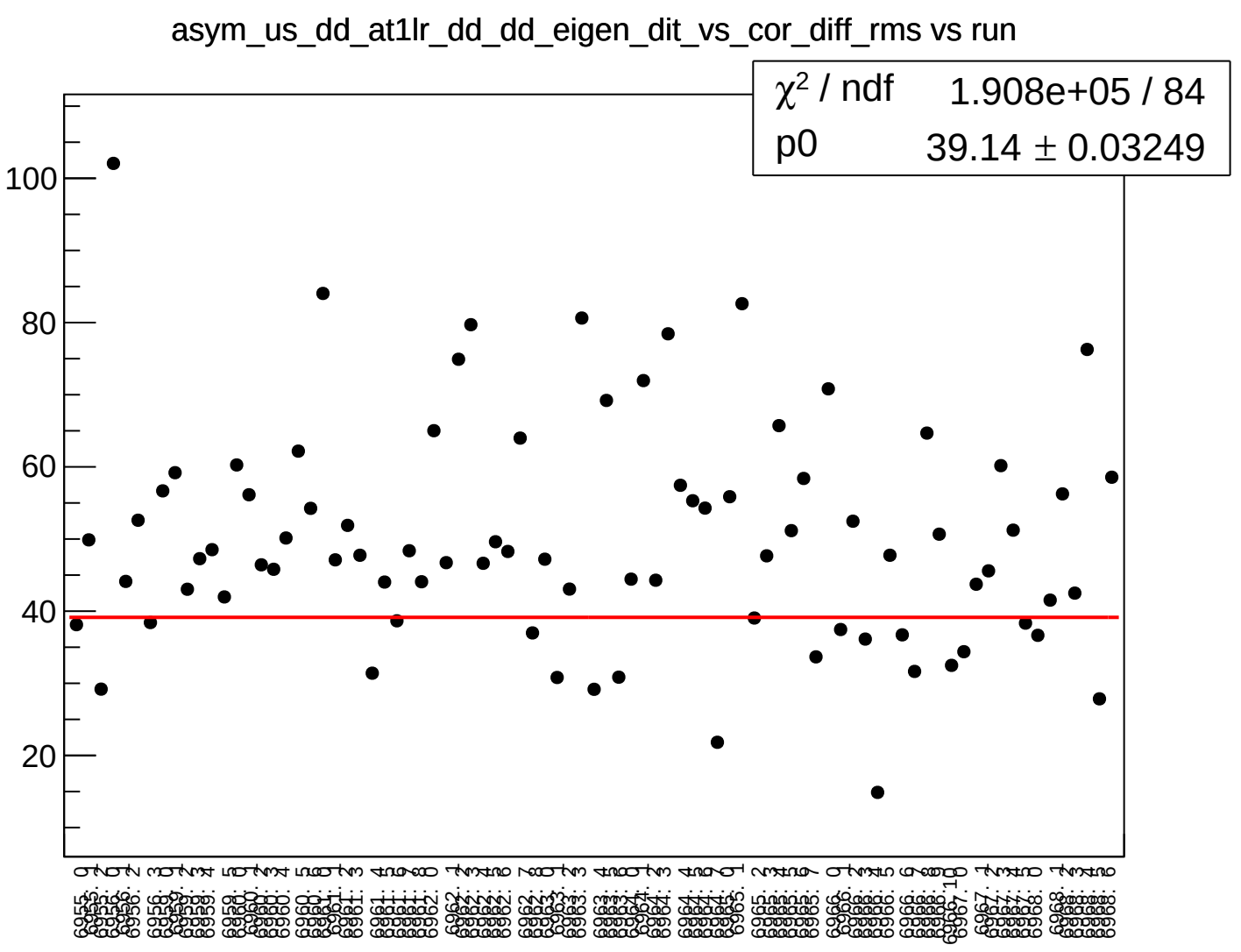

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.908e+05 / 84
p0 39.14 ± 0.03249
100
80
60
40
20

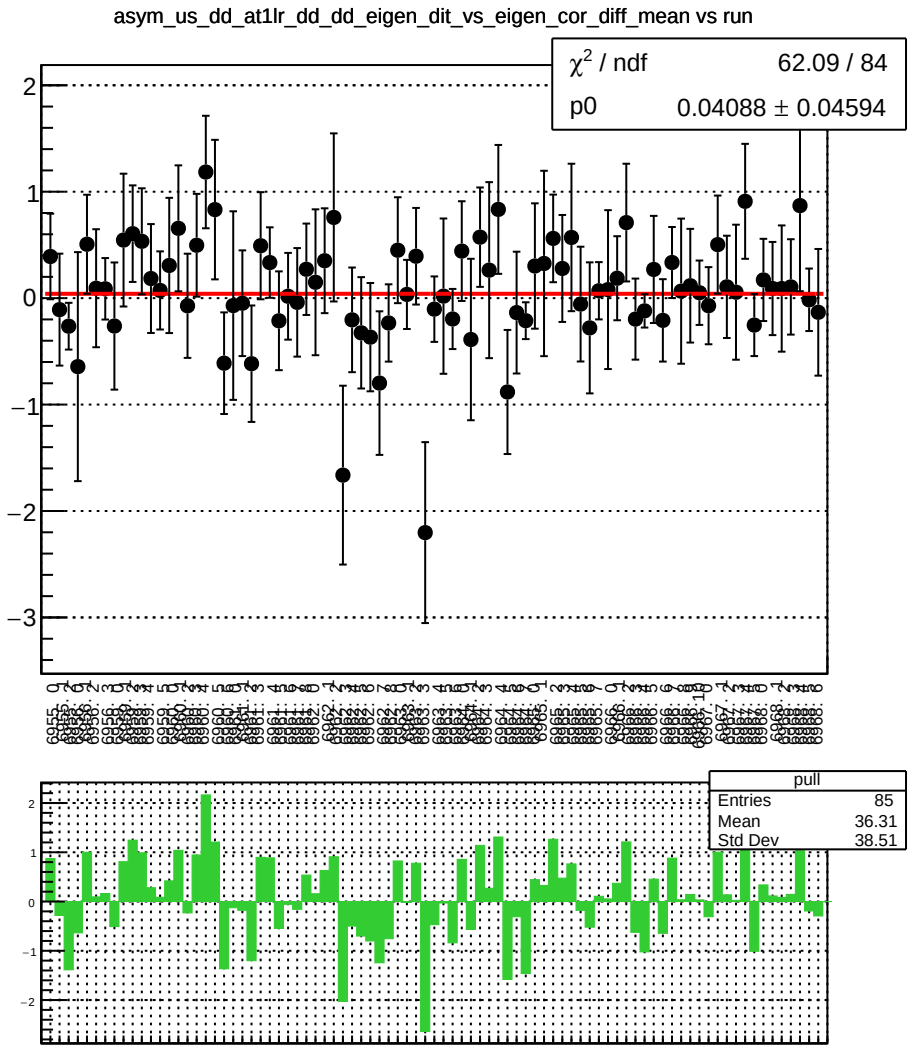

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.23 / 84
p0 −1.508e−07 ± 7.079e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 85
Mean 54.76
Std Dev 43.45
2
1
0
−1
−2
−3

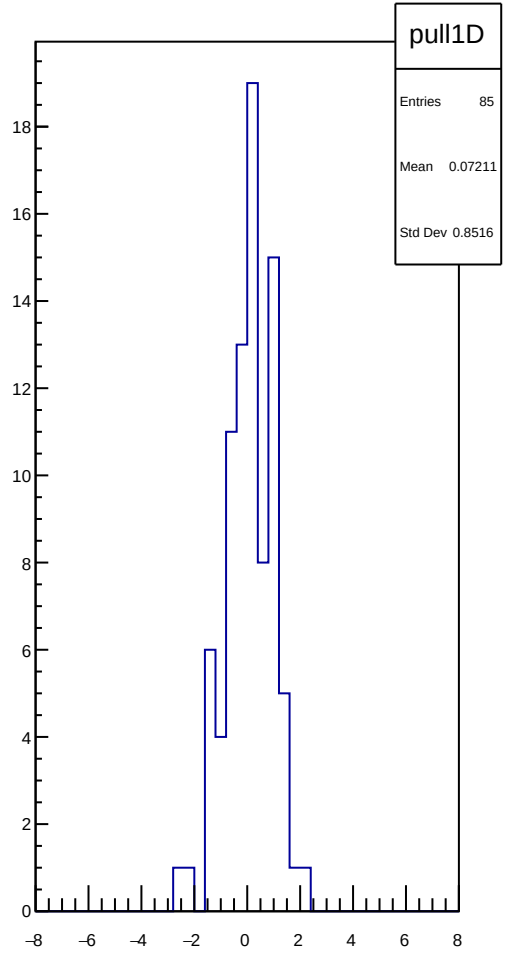

pull1D
Entries 85
Mean 0.02215
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

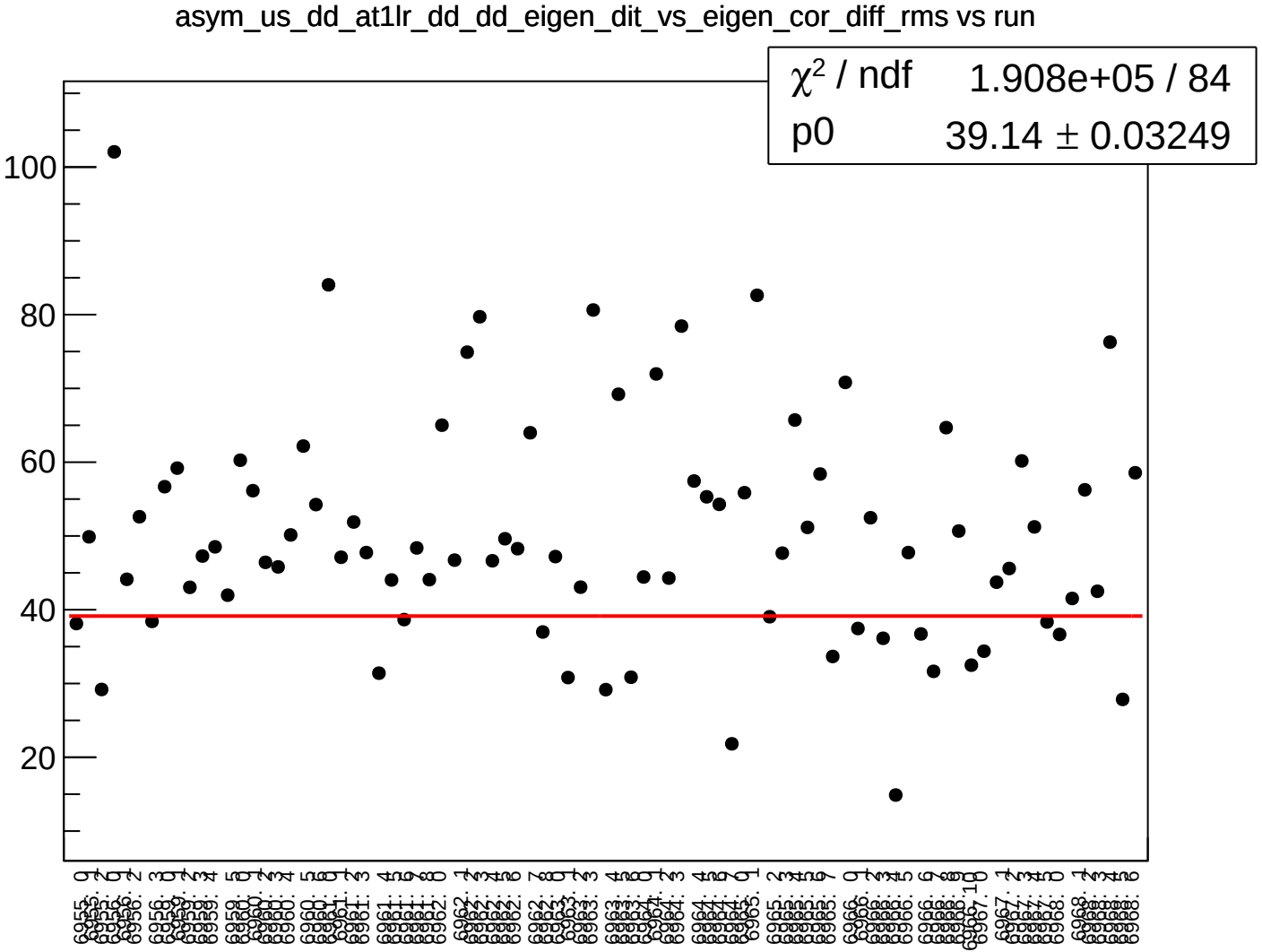

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9300 / 84
p0 0.006397 ± 5.005e−06
0.0075
0.007
0.0065
0.006
0.0055

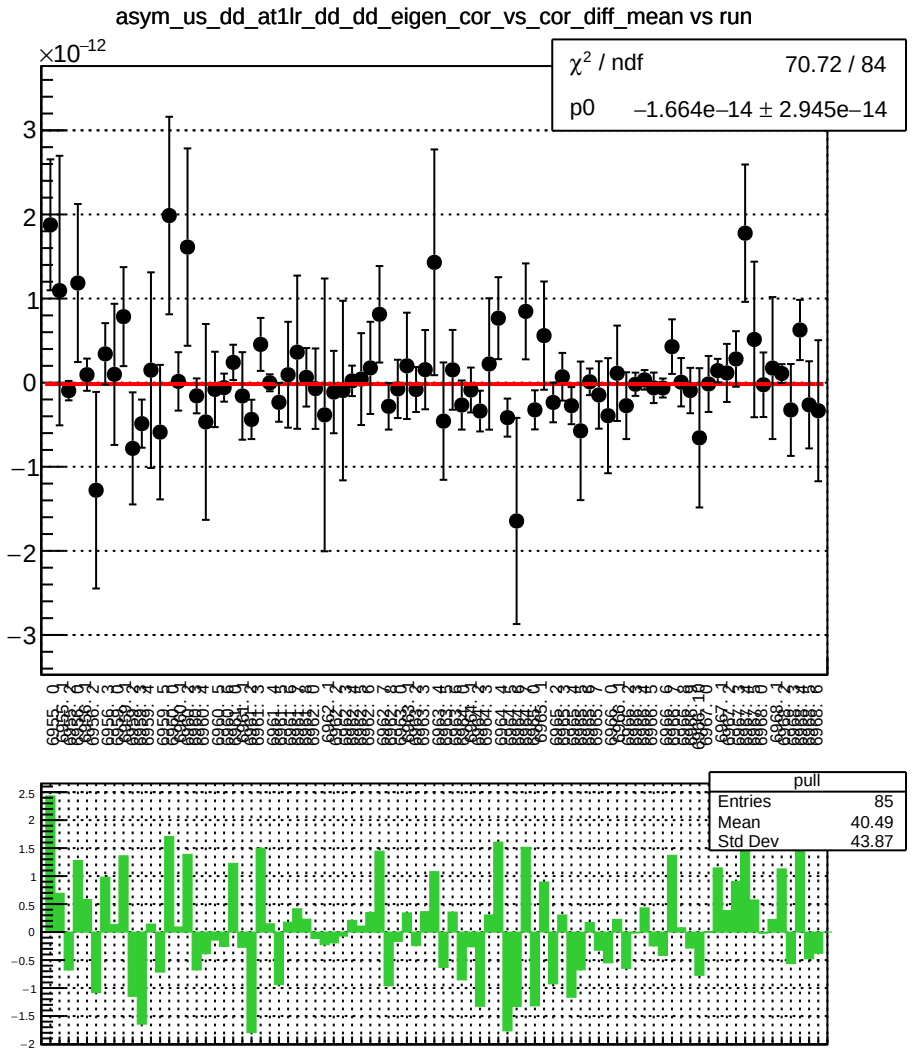

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 62.09 / 84
p0 0.04088 ± 0.04594
pull
Entries 85
Mean 36.31
Std Dev 38.51
pull1D
Entries 85
Mean 0.07211
Std Dev 0.8516

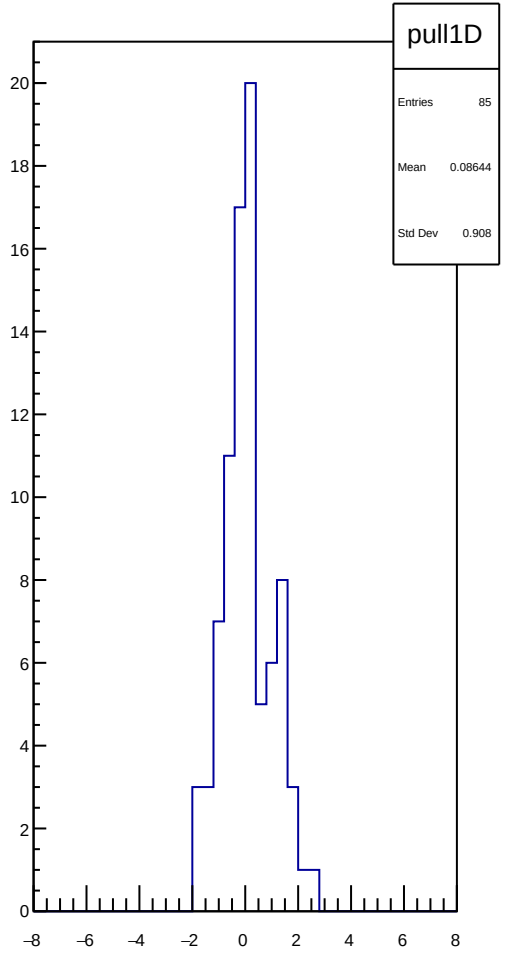

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.908e+05 / 84
p0 39.14 ± 0.03249
100
80
60
40
20

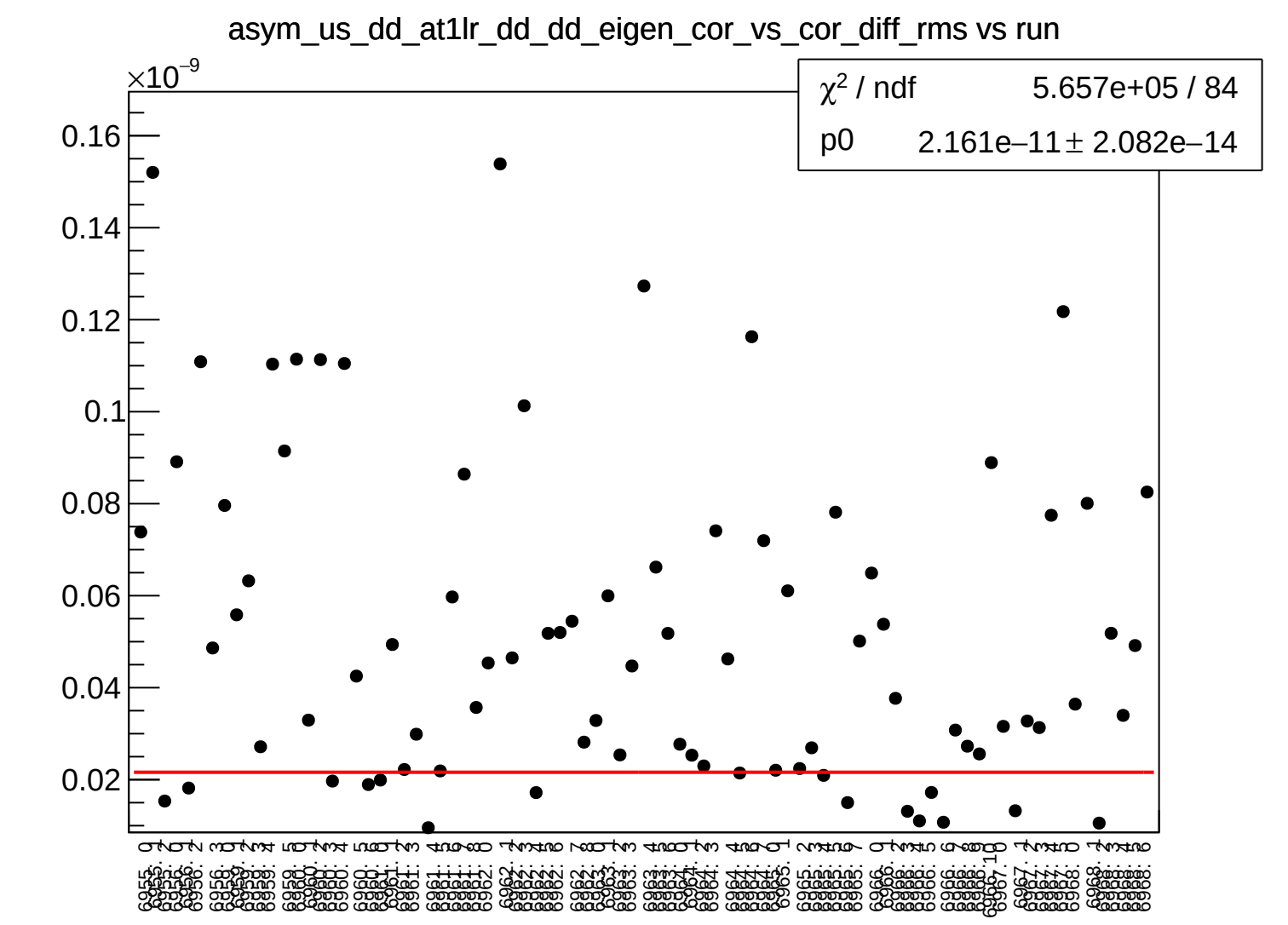

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.09 / 84
p0 0.04088 ± 0.04594
pull
Entries 85
Mean 36.31
Std Dev 38.51

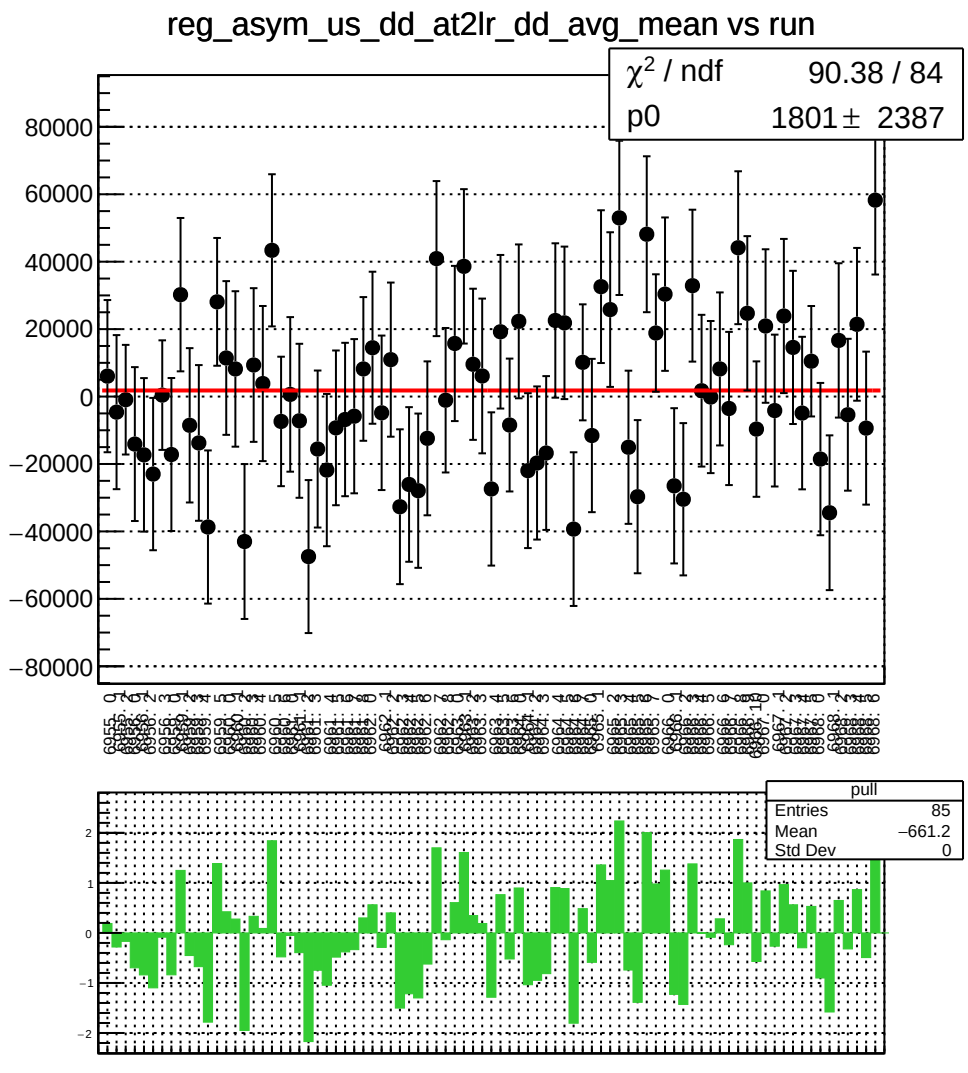

pull1D
Entries 85
Mean 0.07211
Std Dev 0.8516

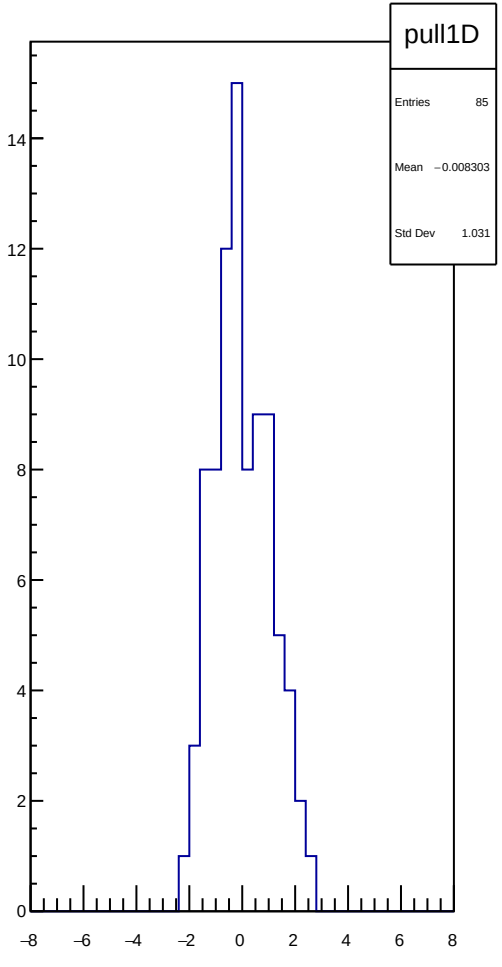

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.908e+05 / 84
p0 39.14 ± 0.03249
100
80
60
40
20

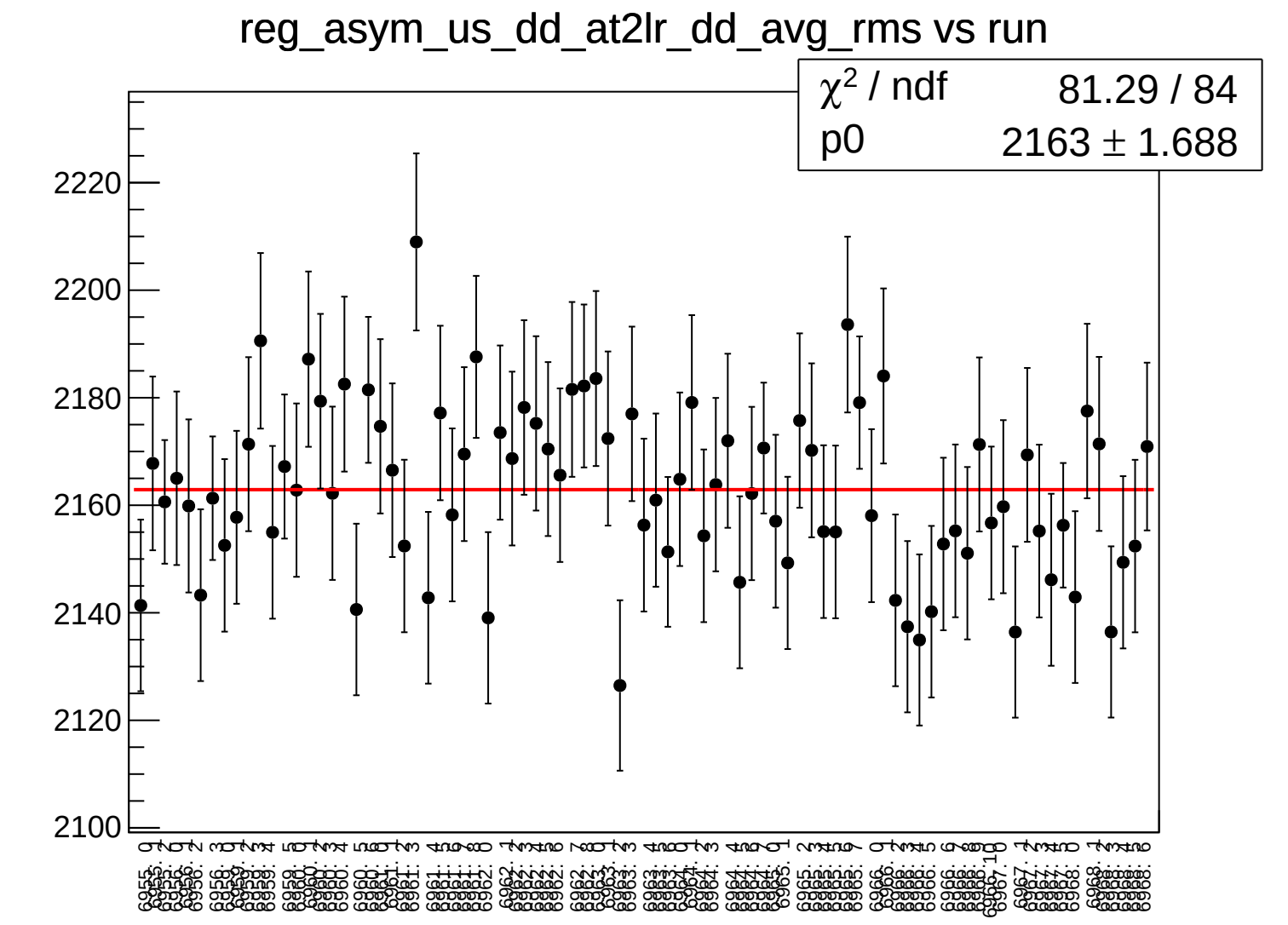

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.72 / 84
p0 −1.664e−14 ± 2.945e−14
pull
Entries 85
Mean 40.49
Std Dev 43.87

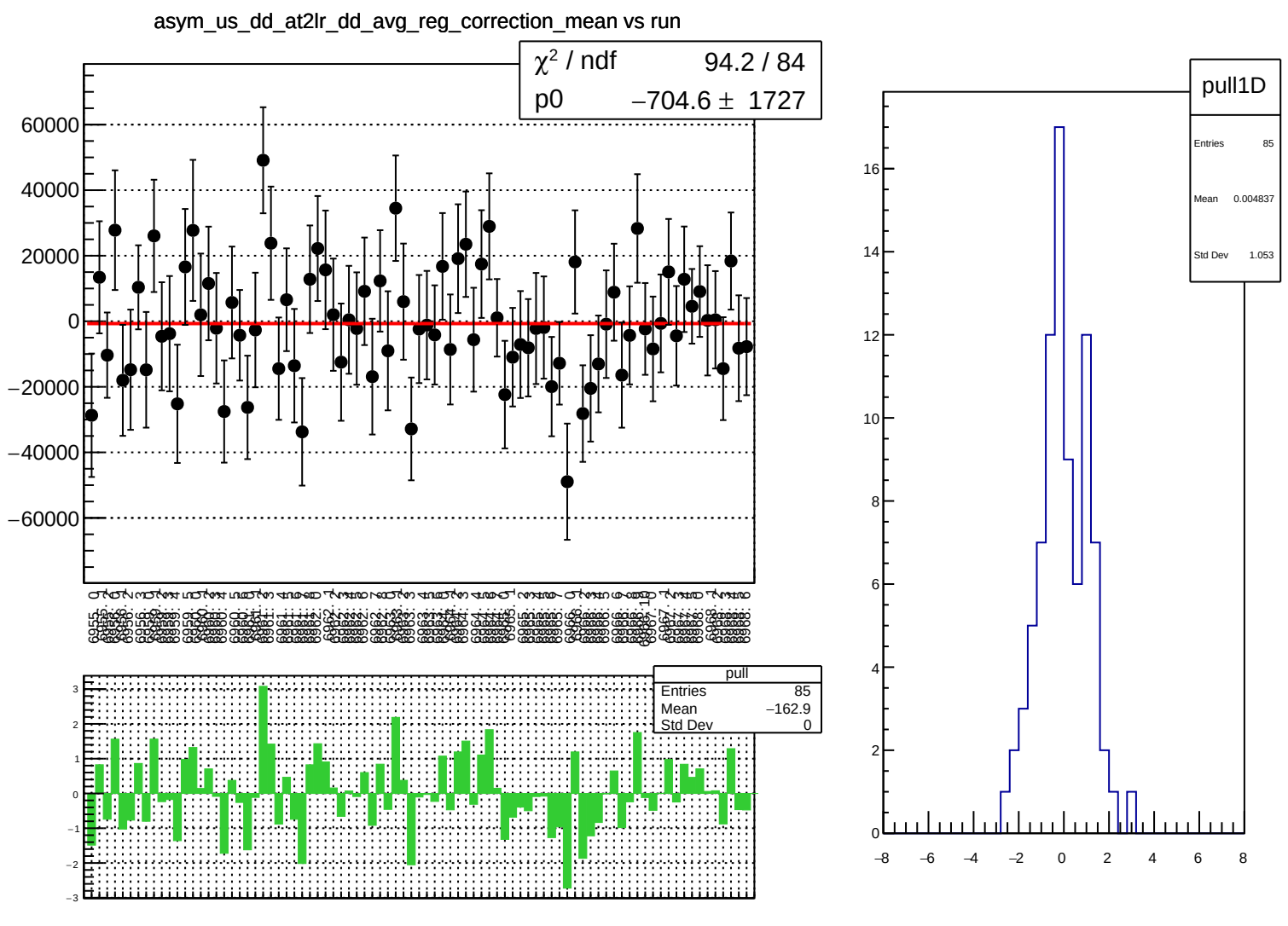

pull1D
Entries 85
Mean 0.08644
Std Dev 0.908

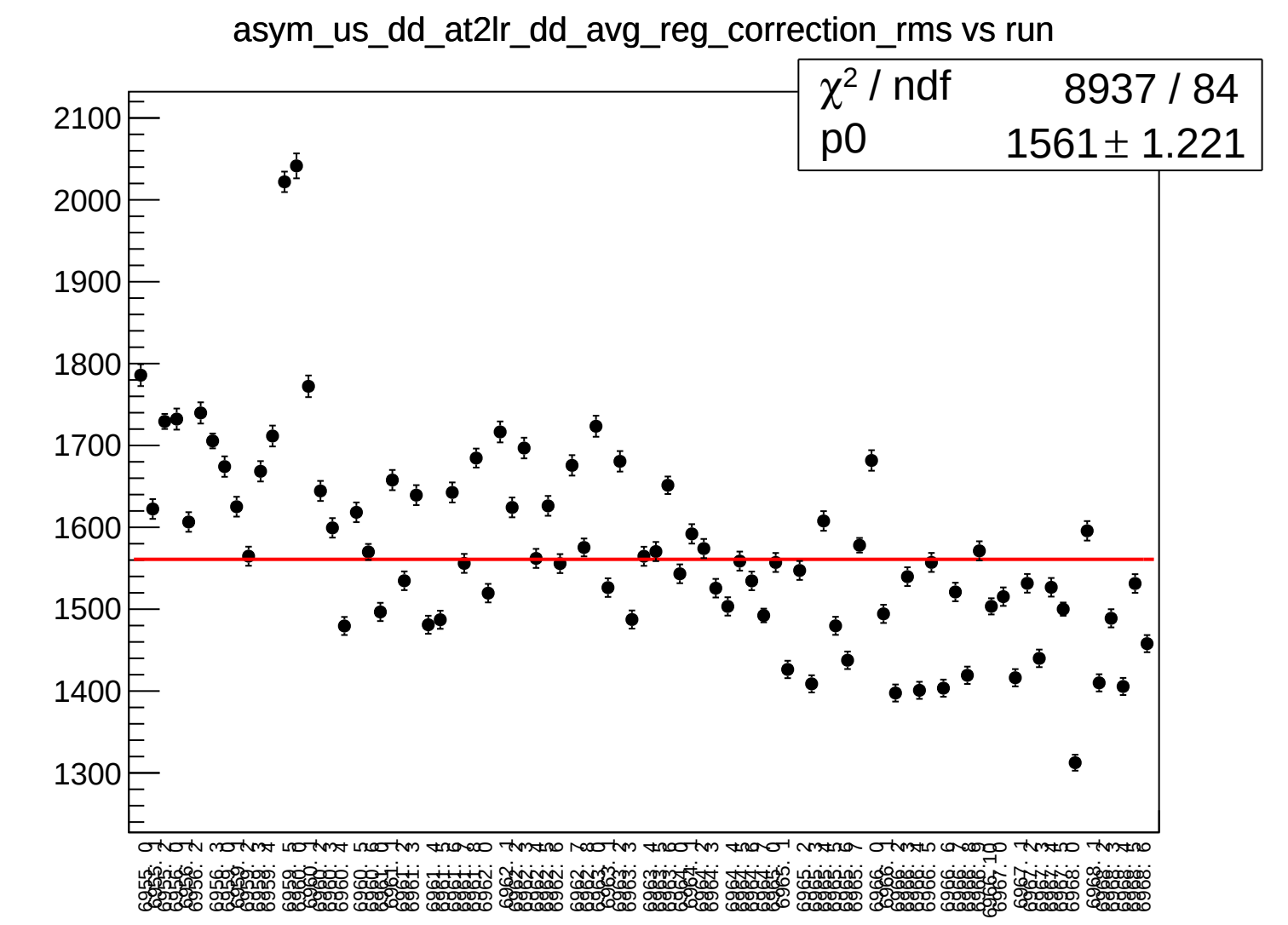

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.657e+05 / 84
p0 2.161e−11 ± 2.082e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

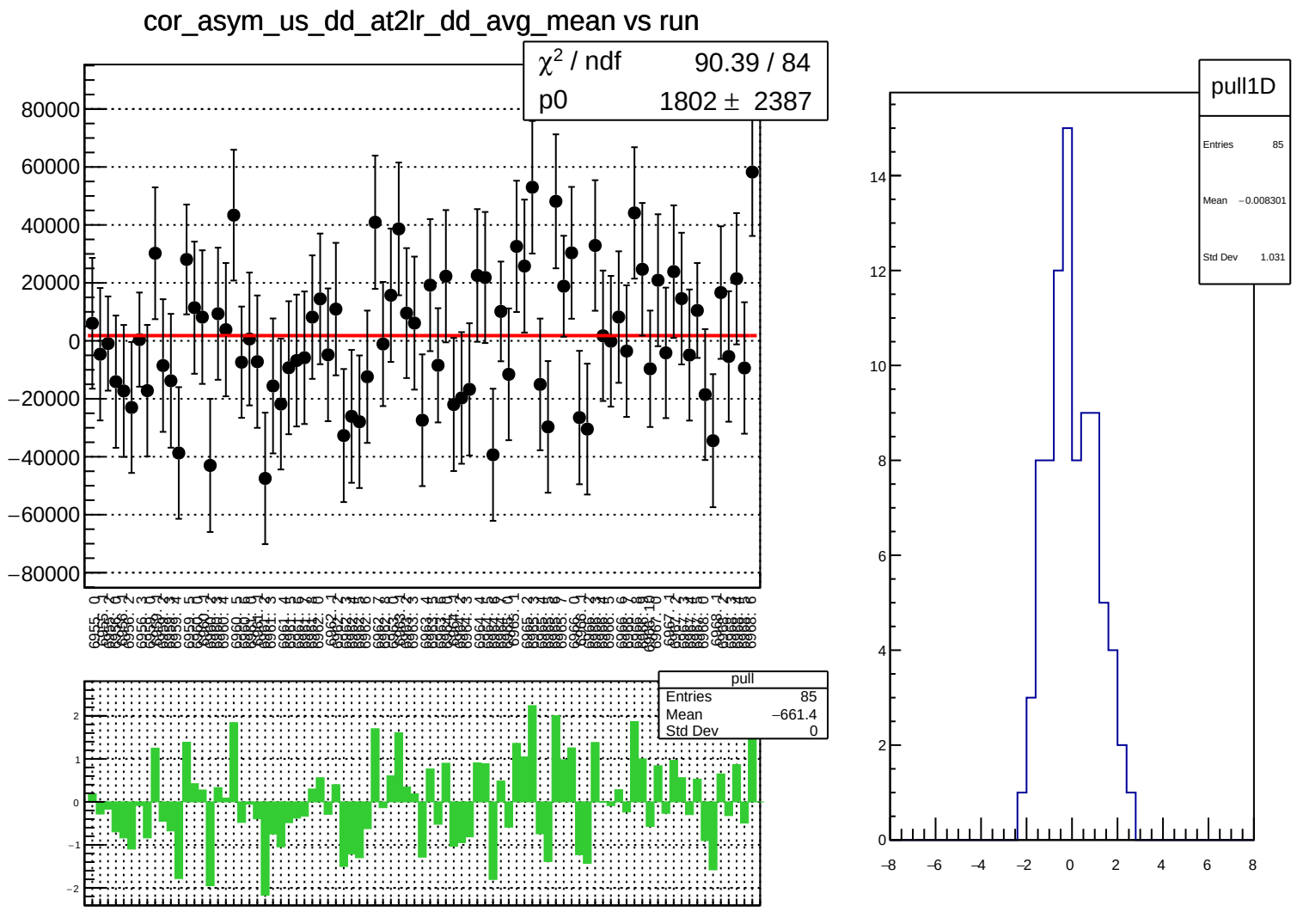

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 90.38 / 84
p0 1801 ± 2387
pull
Entries 85
Mean −661.2
Std Dev 0

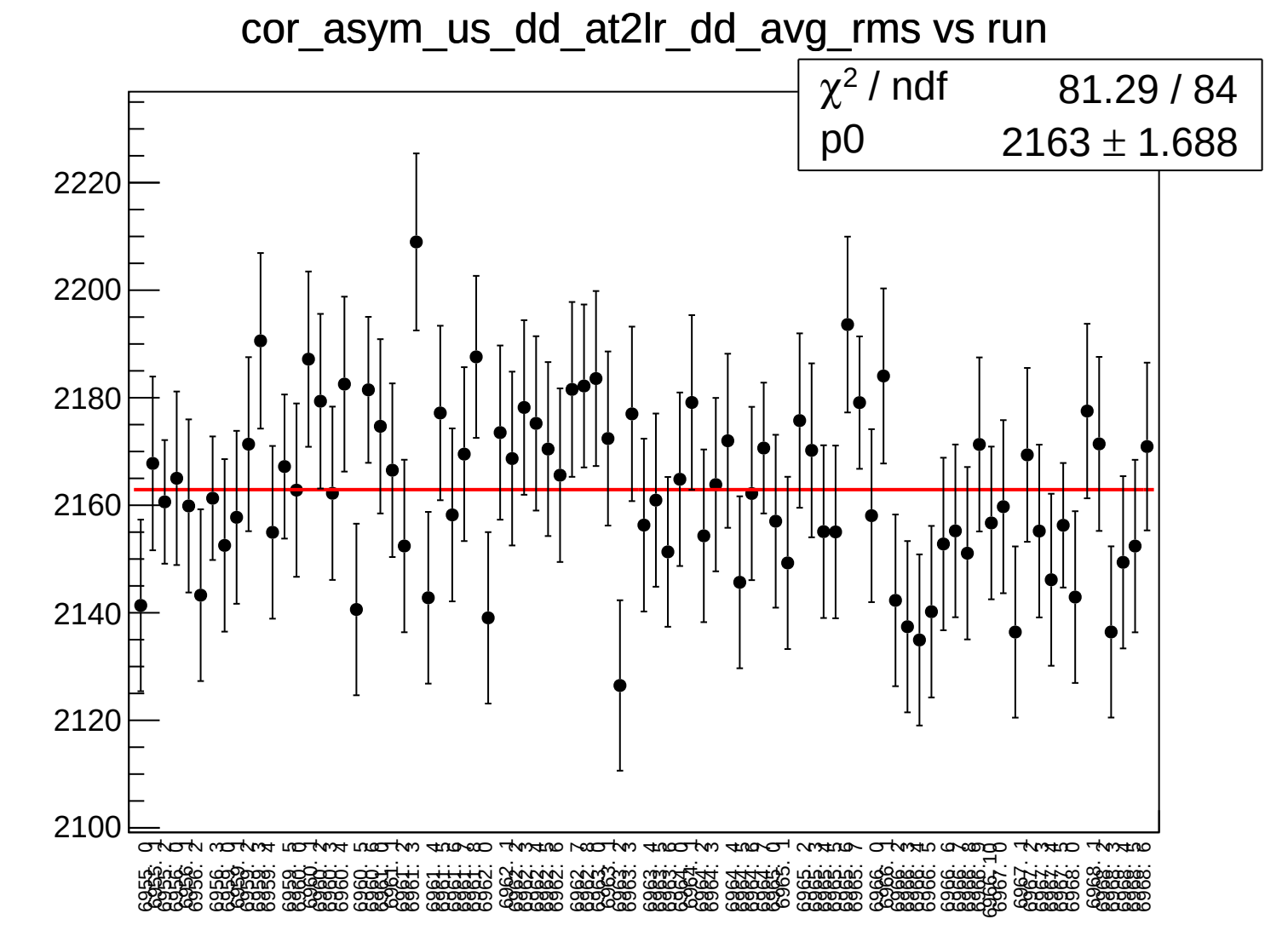

pull1D
Entries 85
Mean −0.008303
Std Dev 1.031

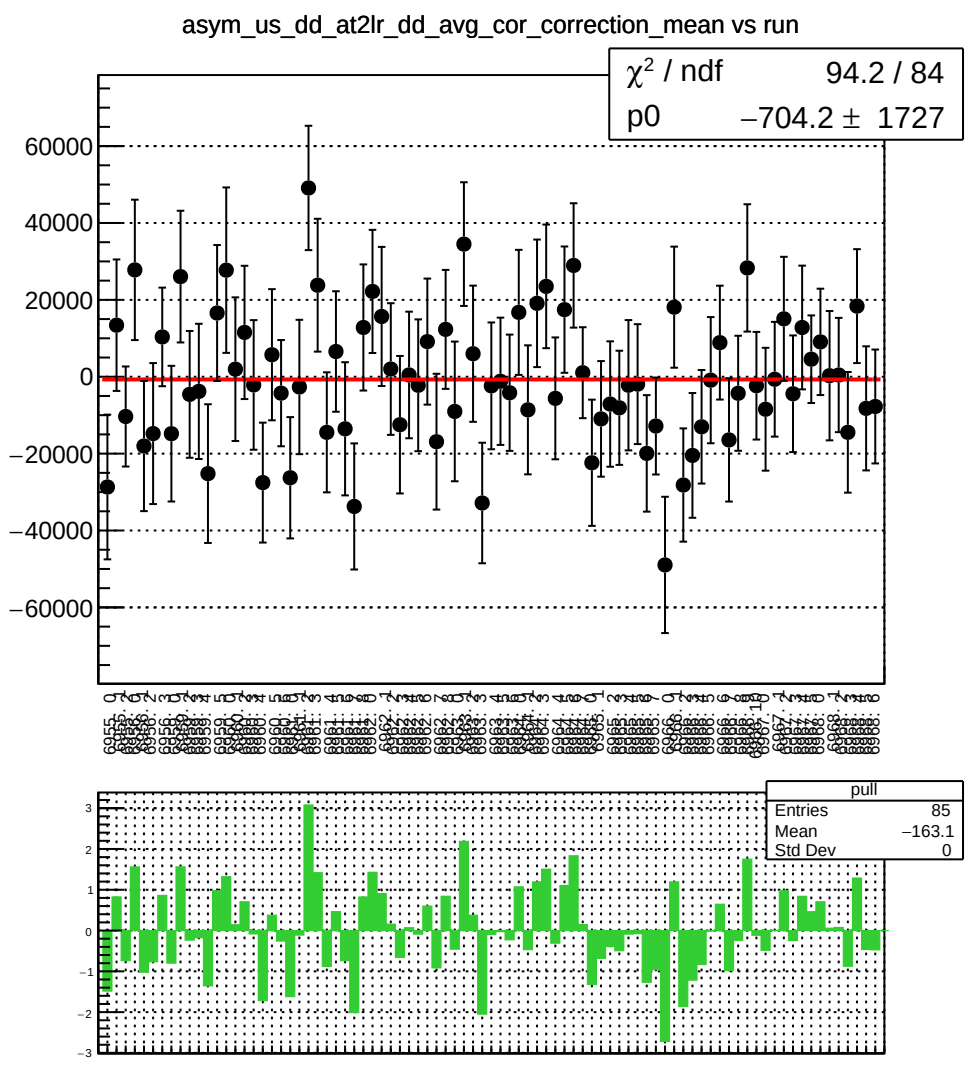

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 81.29 / 84
p0 2163 ± 1.688
2220
2200
2180
2160
2140
2120
2100

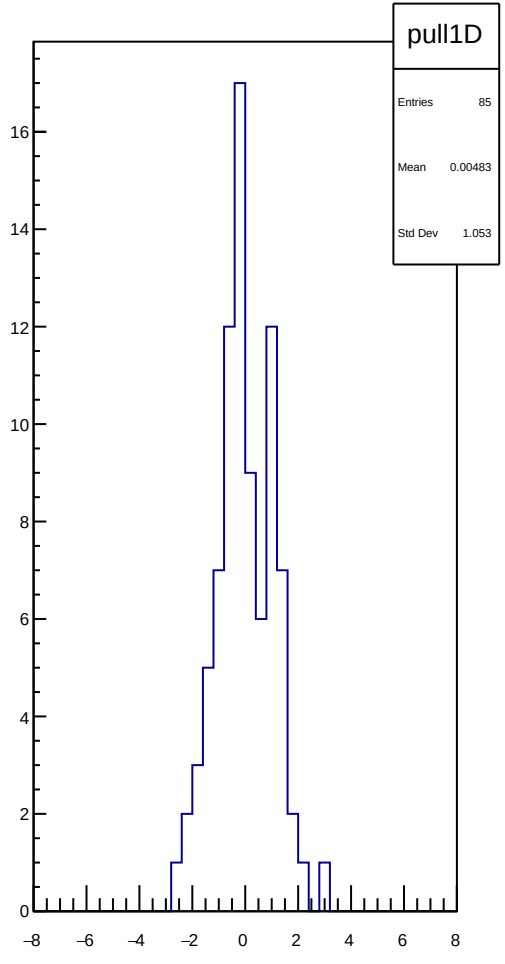

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 94.2 / 84
p0 −704.6 ± 1727
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −162.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.004837
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

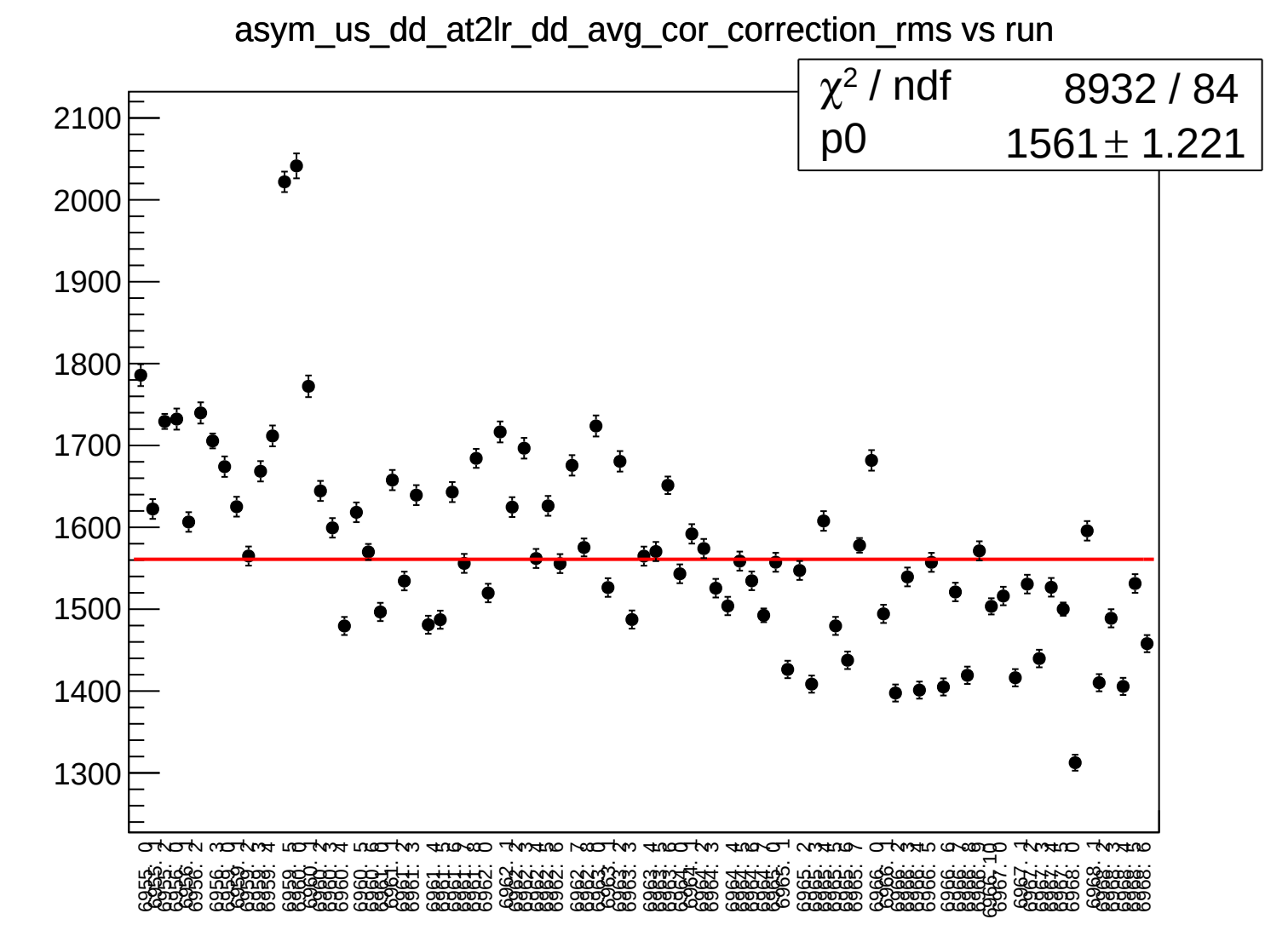

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 8937 / 84
p0 1561 ± 1.221
2100
2000
1900
1800
1700
1600
1500
1400
1300

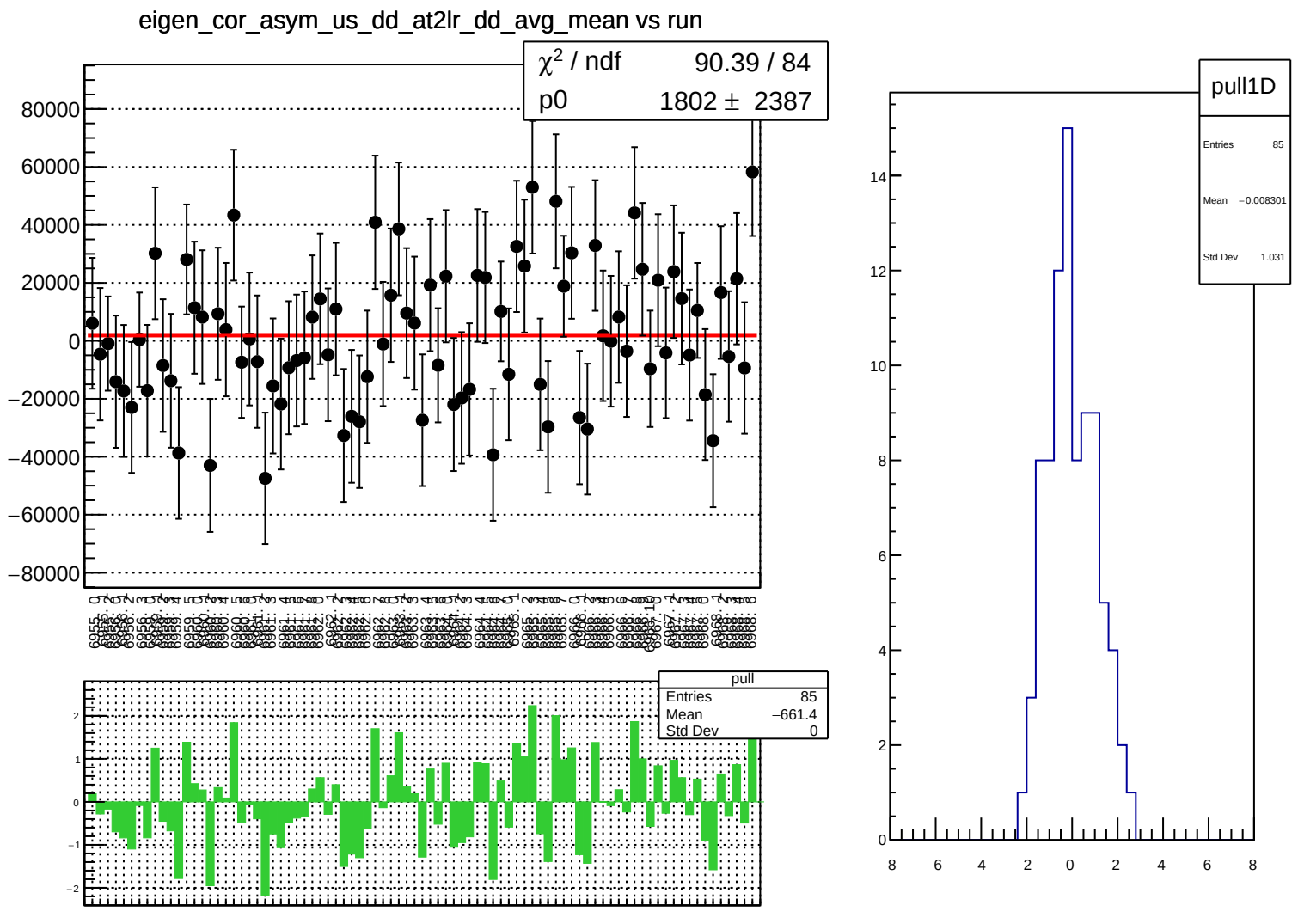

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 90.39 / 84
p0 1802 ± 2387
pull
Entries 85
Mean −661.4
Std Dev 0
pull1D
Entries 85
Mean −0.008301
Std Dev 1.031

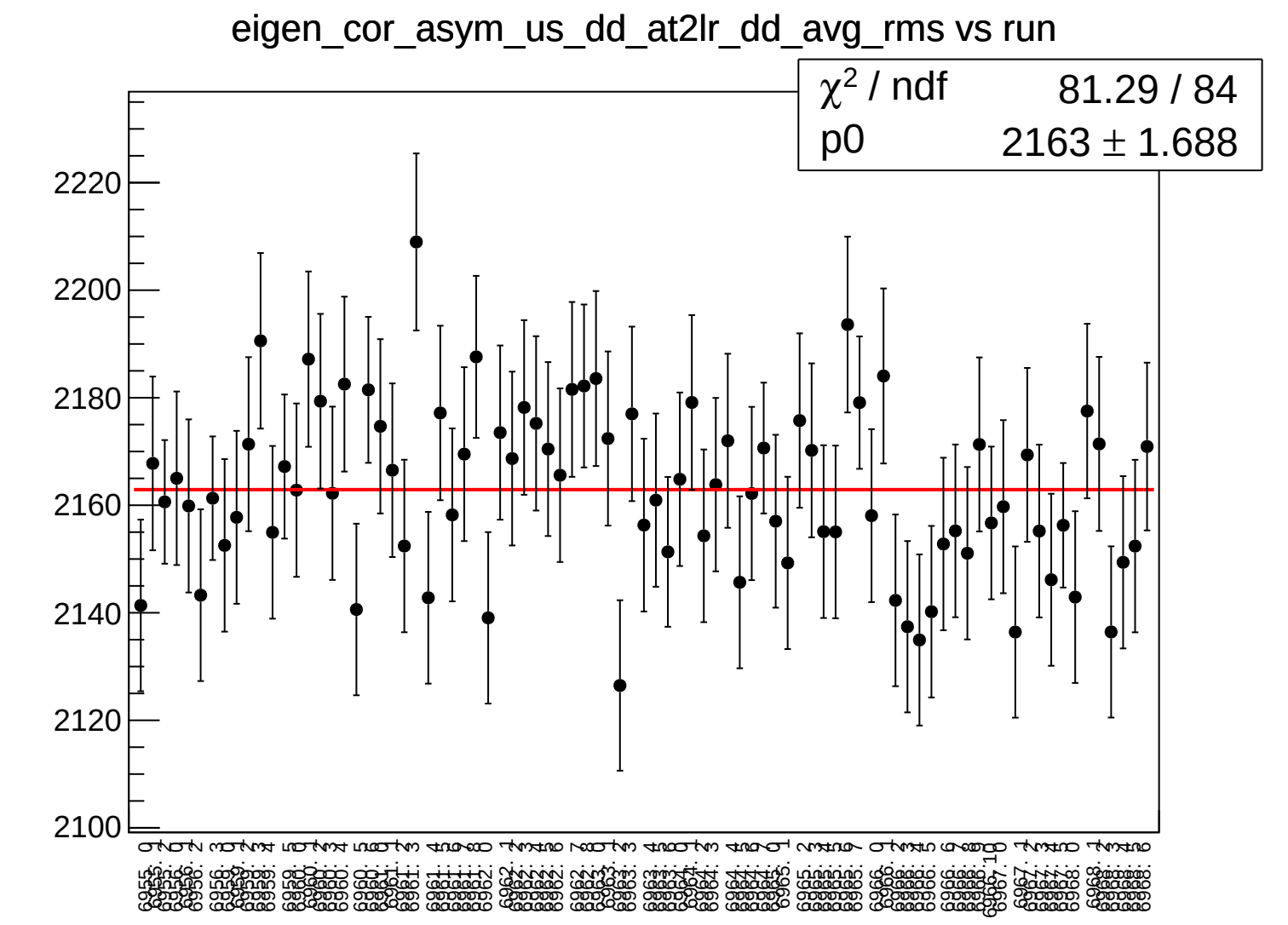

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 81.29 / 84
p0 2163 ± 1.688
2220
2200
2180
2160
2140
2120
2100

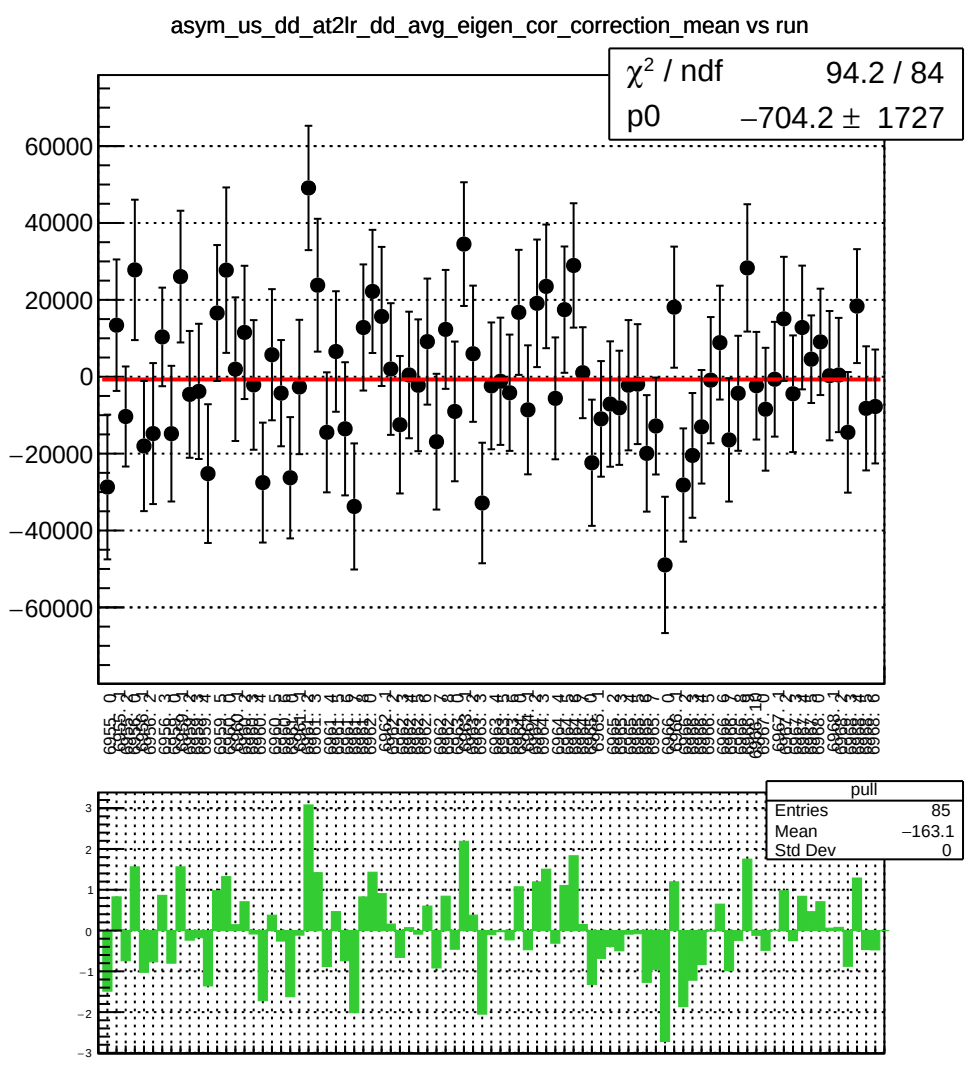

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 94.2 / 84
p0 −704.2 ± 1727
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −163.1
Std Dev 0
3
2
1
0
−1
−2
−3

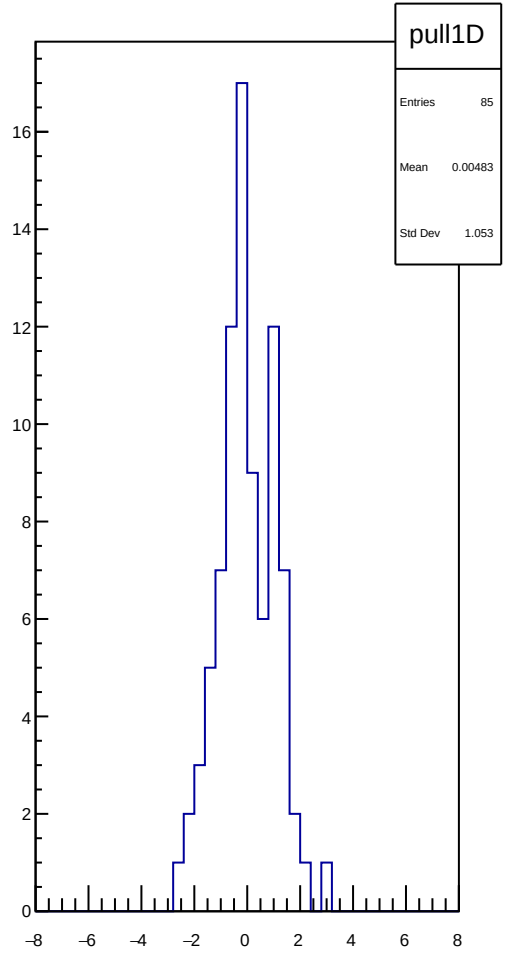

pull1D
Entries 85
Mean 0.00483
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

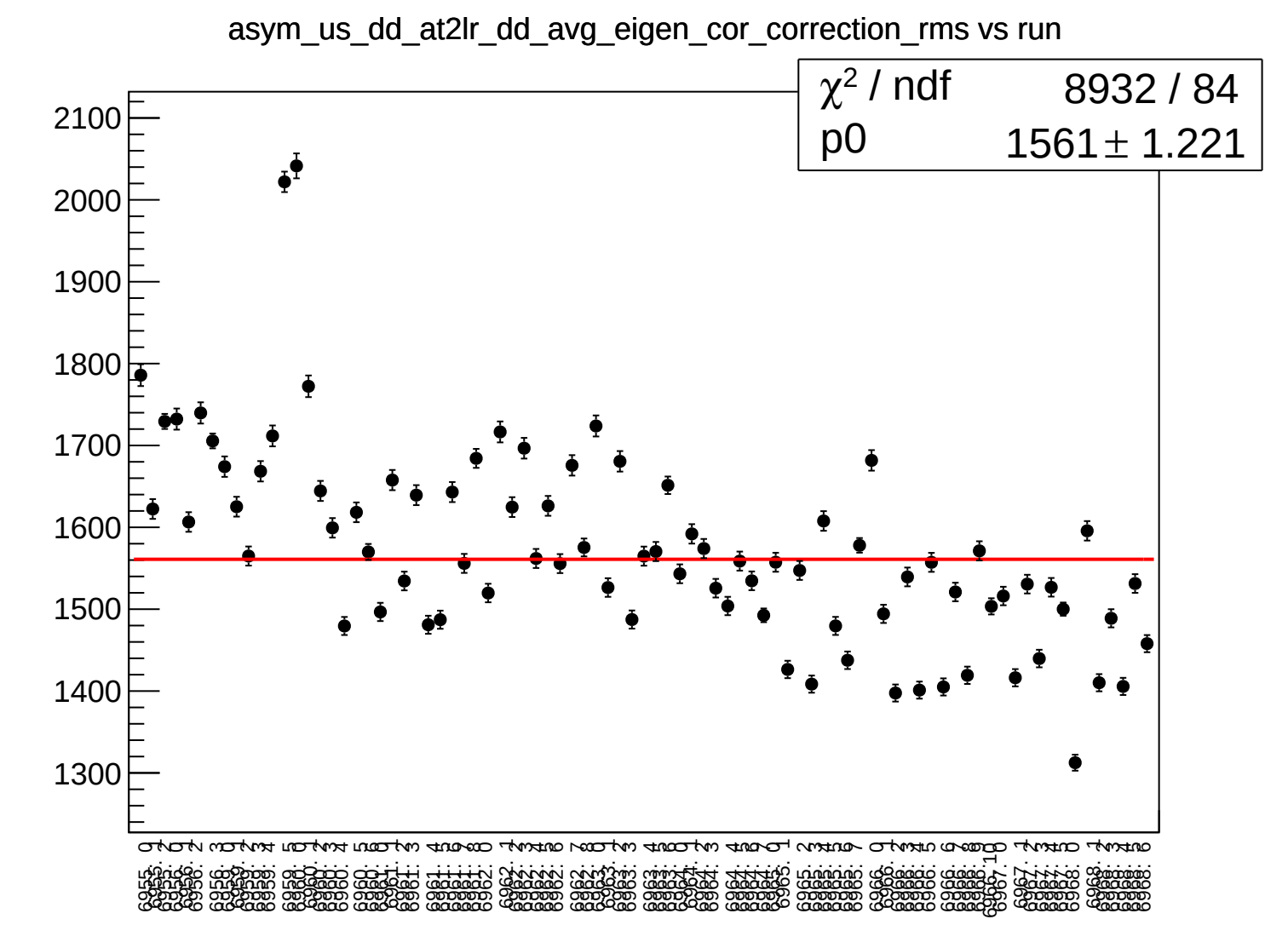

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 8932 / 84
p0 1561 ± 1.221
2100
2000
1900
1800
1700
1600
1500
1400
1300

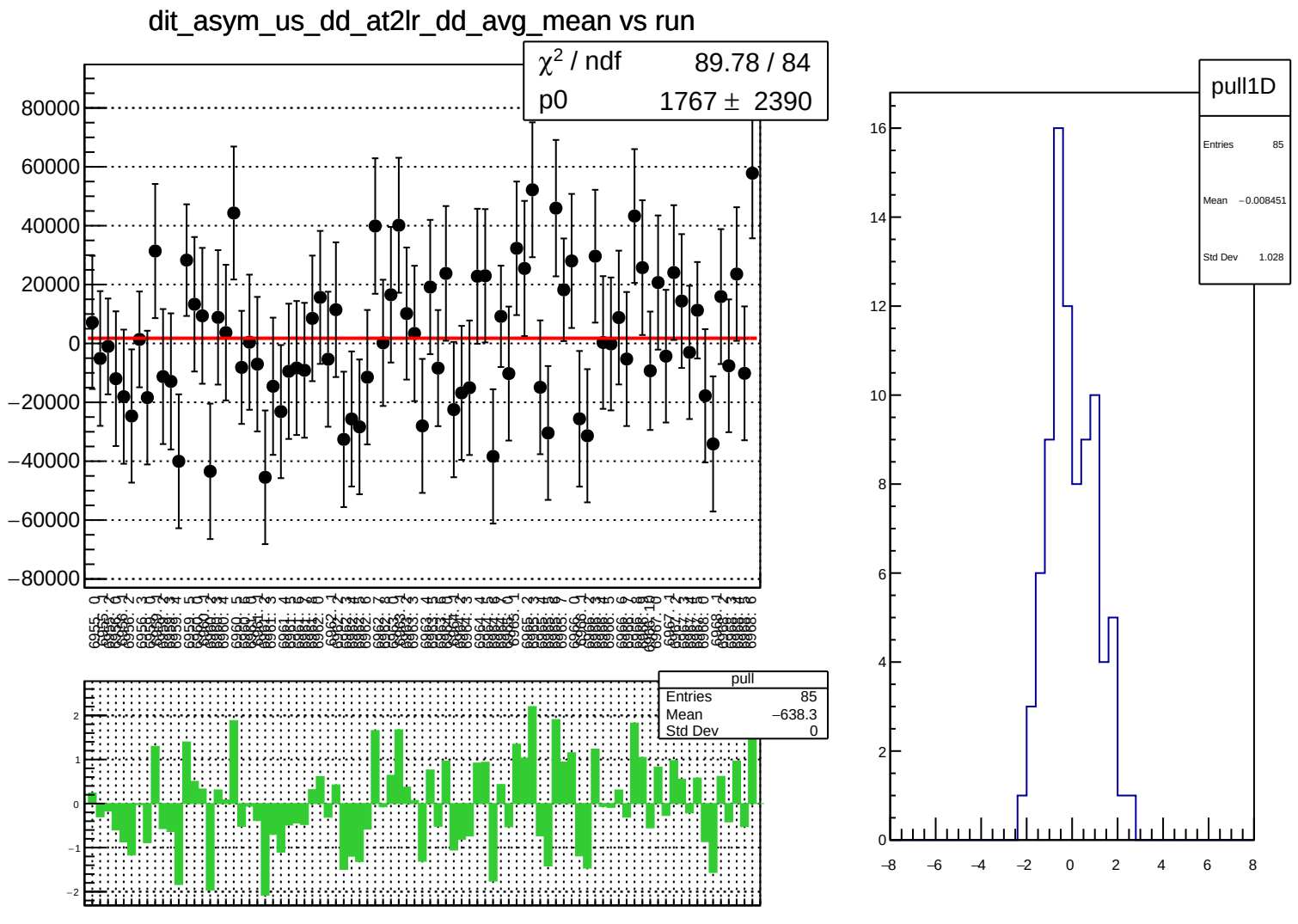

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 90.39 / 84
p0 1802 ± 2387
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −661.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.008301
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

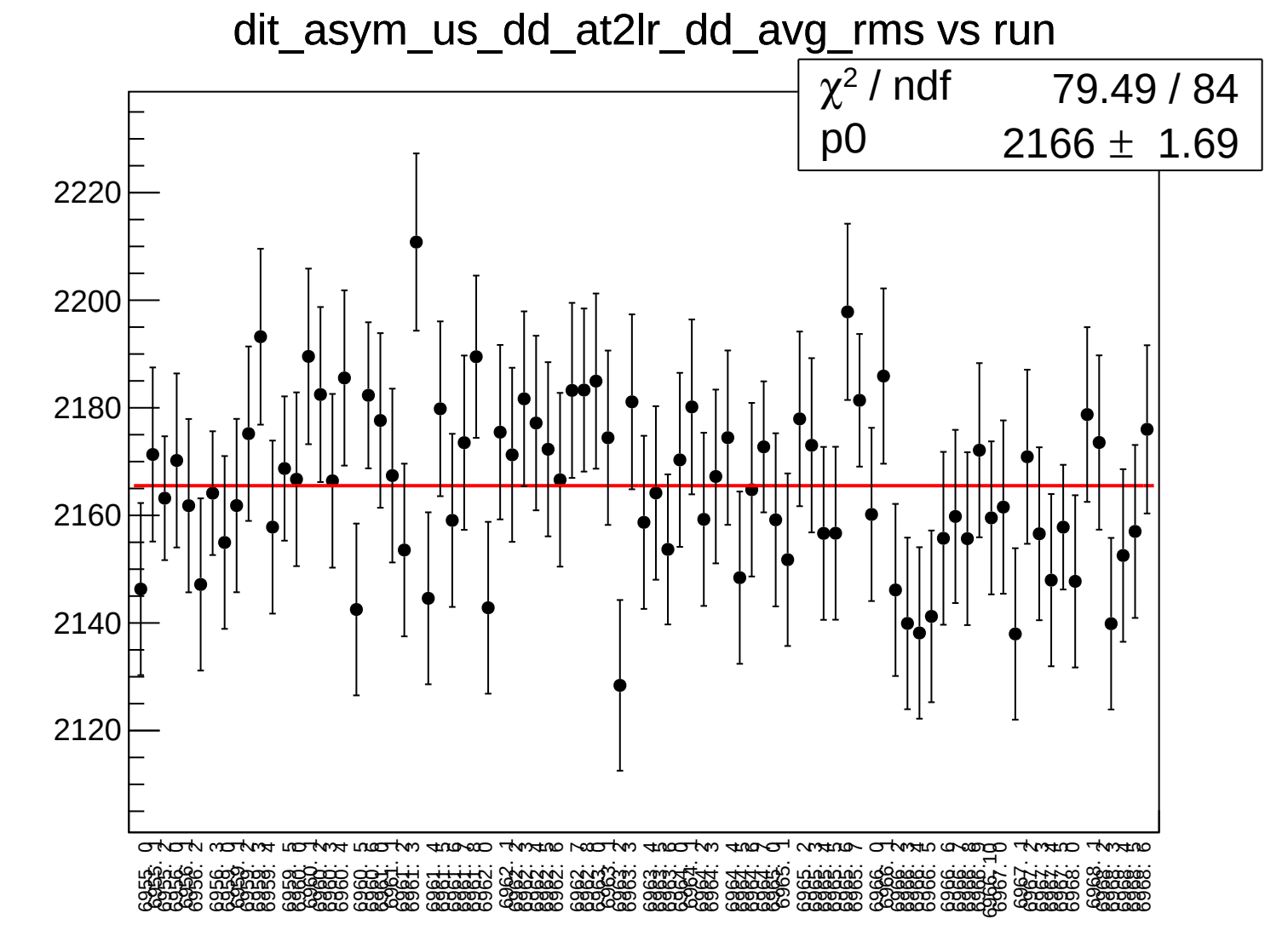

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 81.29 / 84
p0 2163 ± 1.688
2220
2200
2180
2160
2140
2120
2100

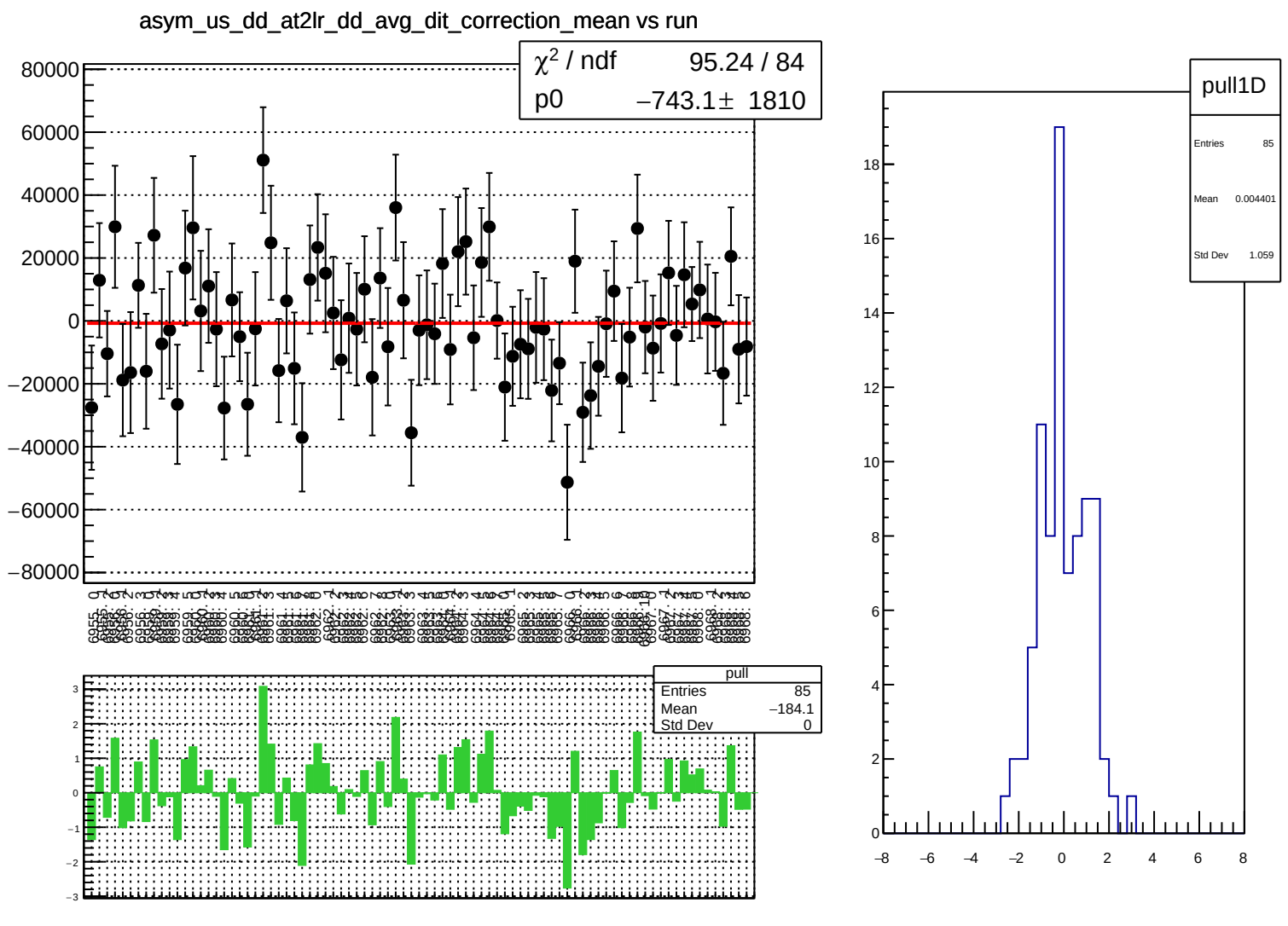

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.2 / 84
p0 −704.2 ± 1727
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −163.1
Std Dev 0
3
2
1
0
−1
−2
−3

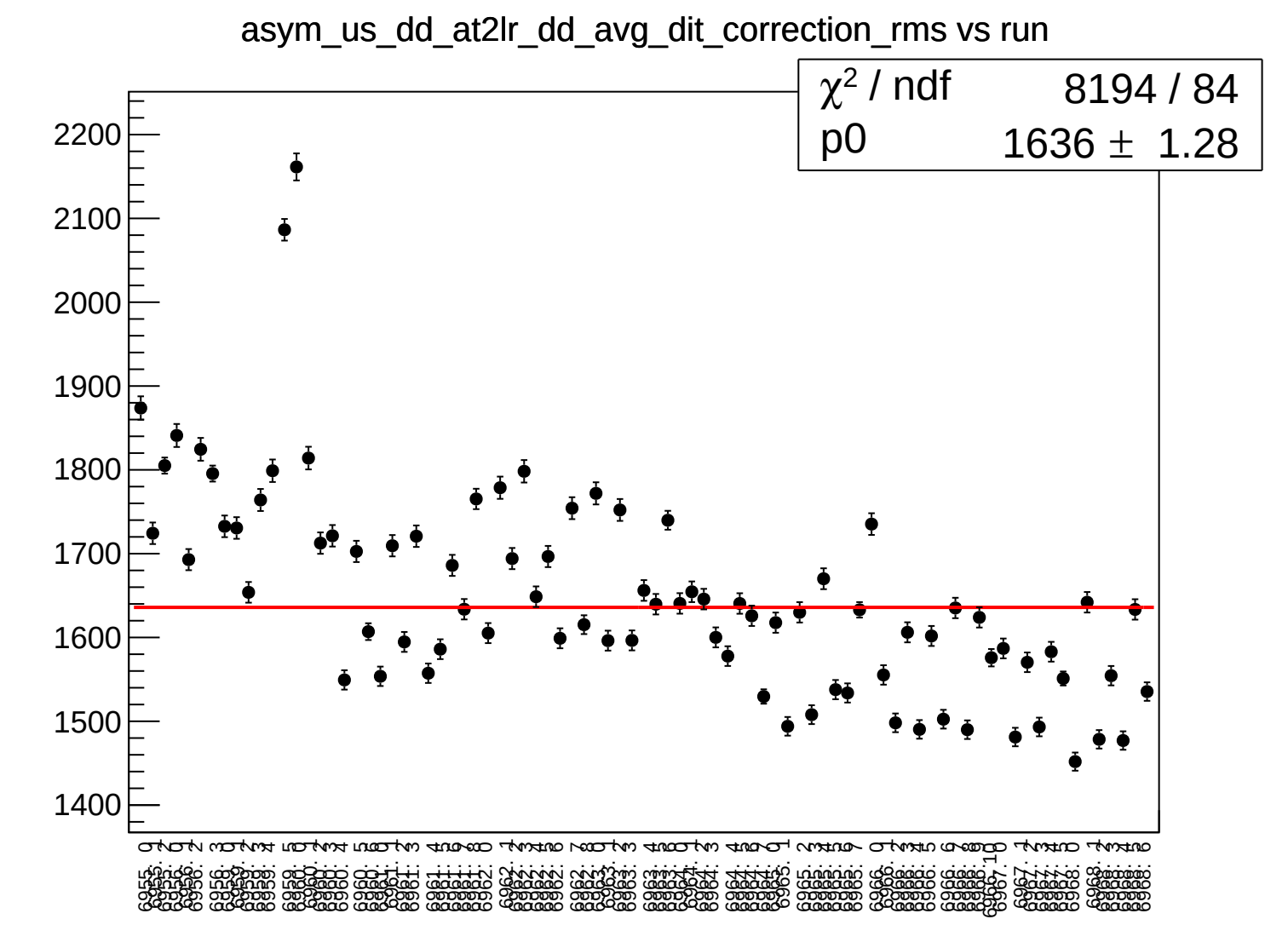

pull1D
Entries 85
Mean 0.00483
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

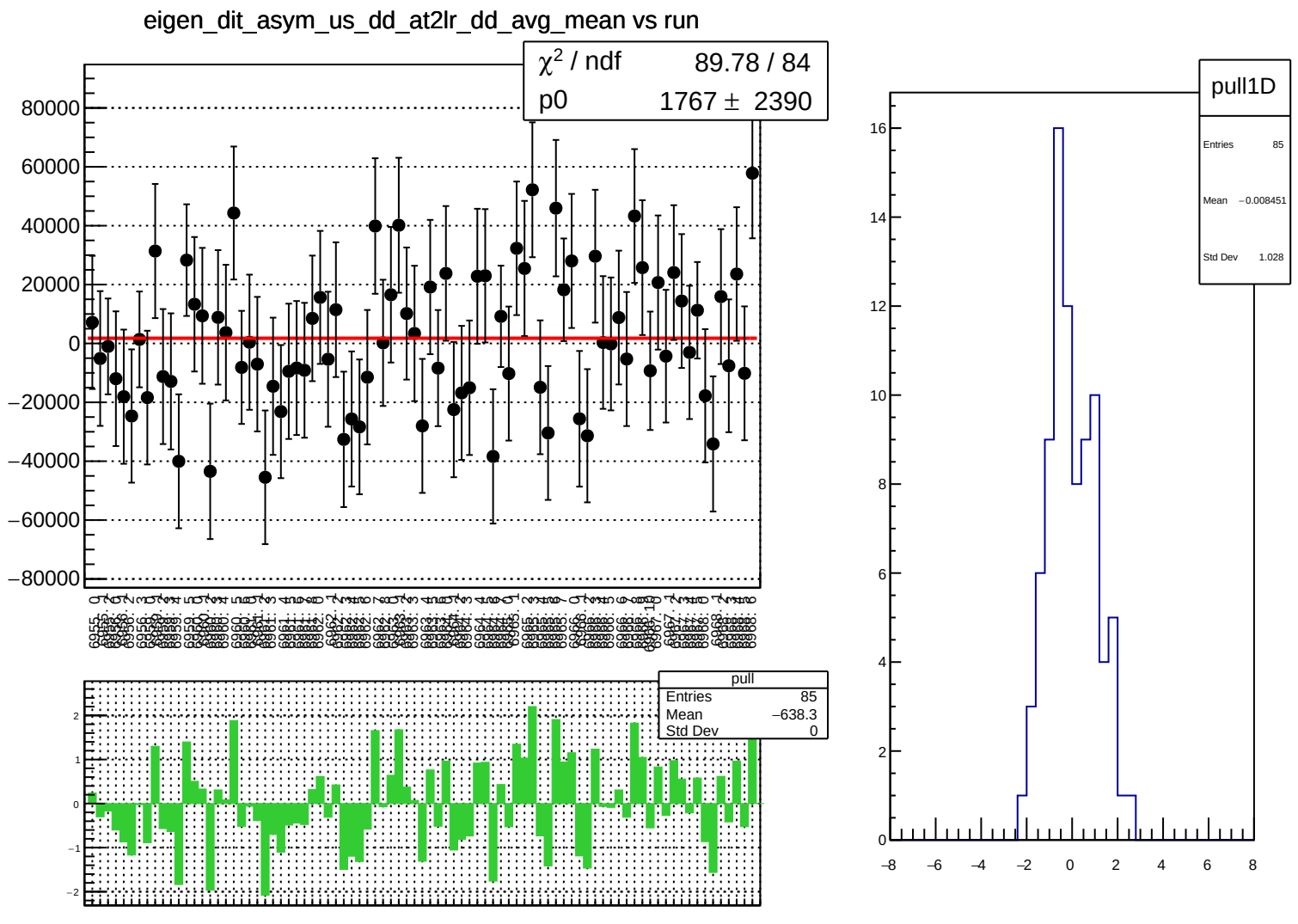

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8932 / 84
p0 1561 ± 1.221
2100
2000
1900
1800
1700
1600
1500
1400
1300

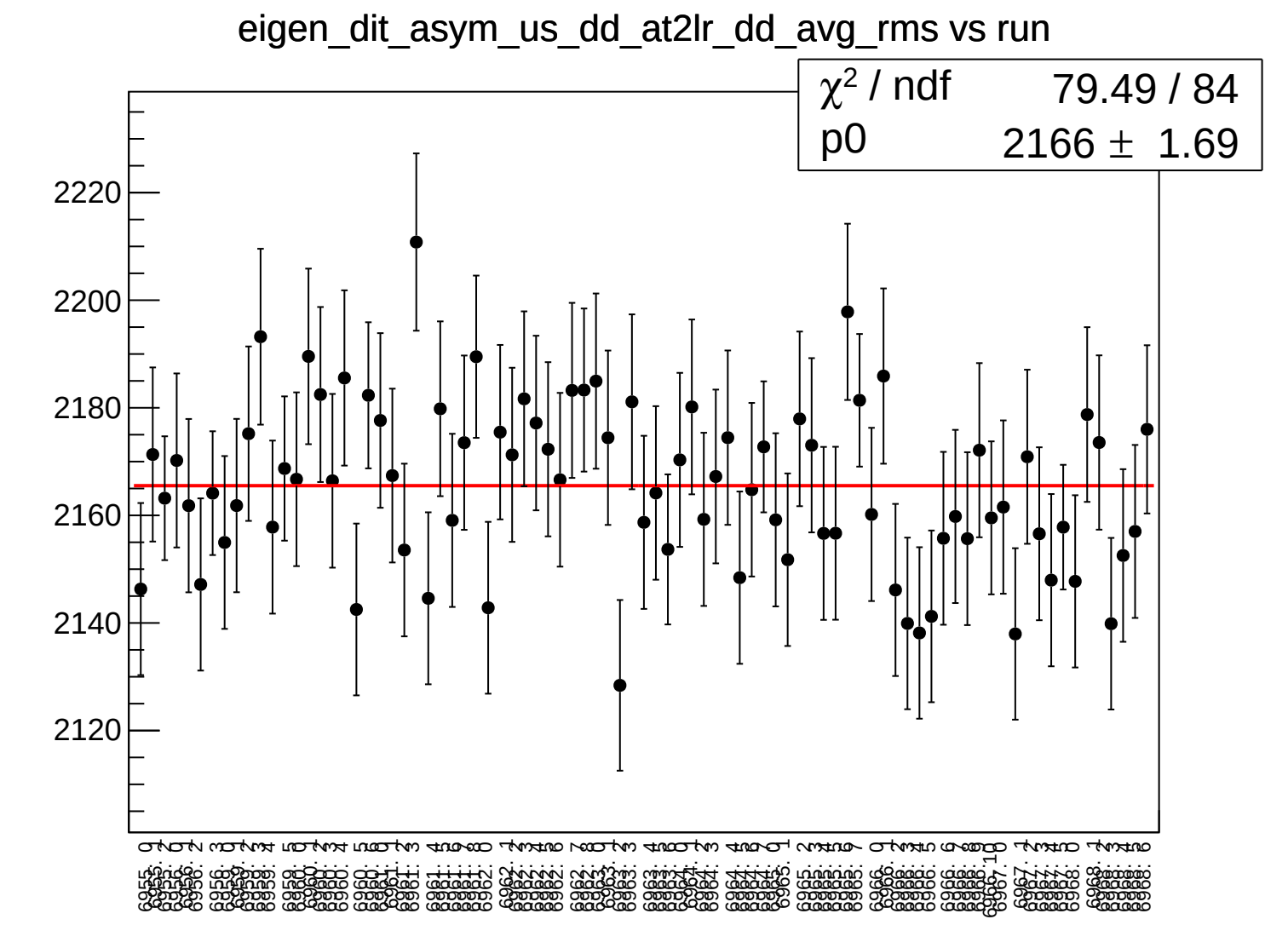

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.78 / 84
p0 1767 ± 2390
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −638.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.008451
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

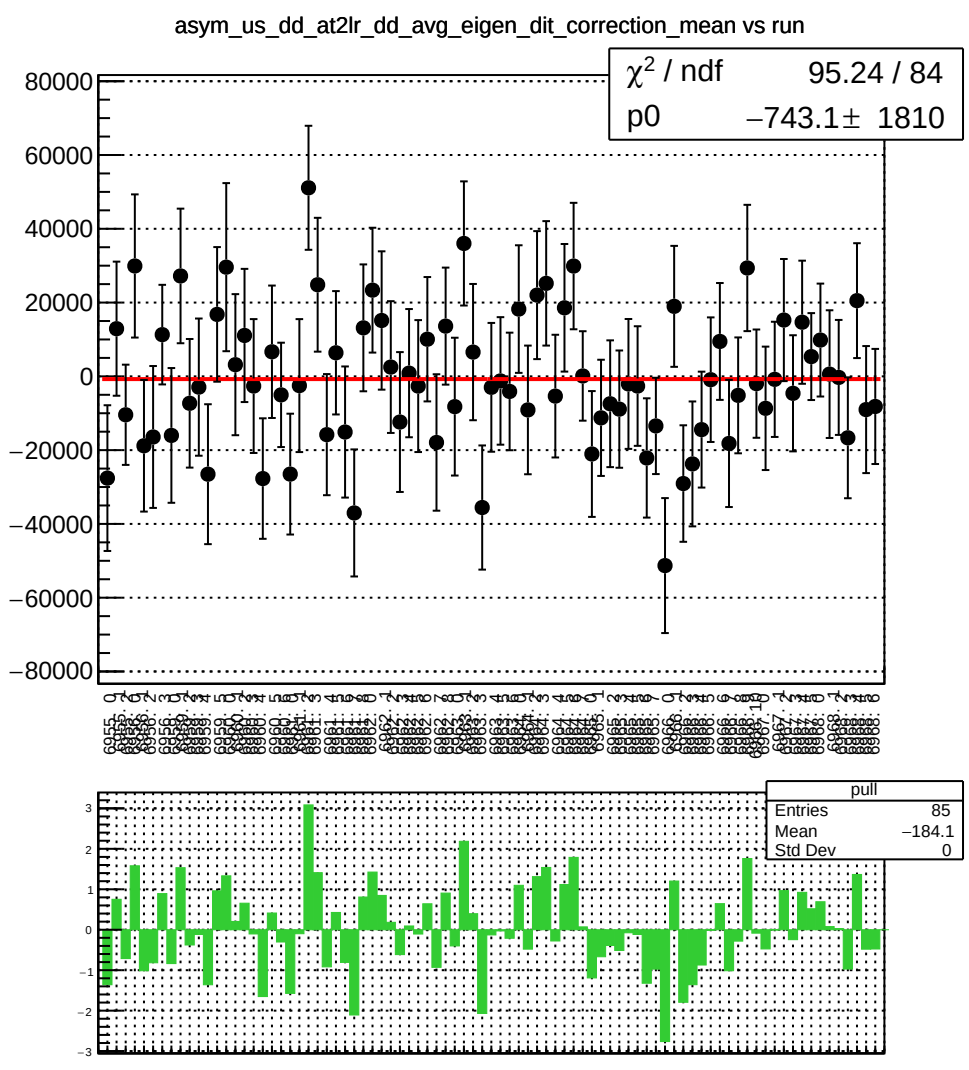

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 79.49 / 84
p0 2166 ± 1.69
2220
2200
2180
2160
2140
2120

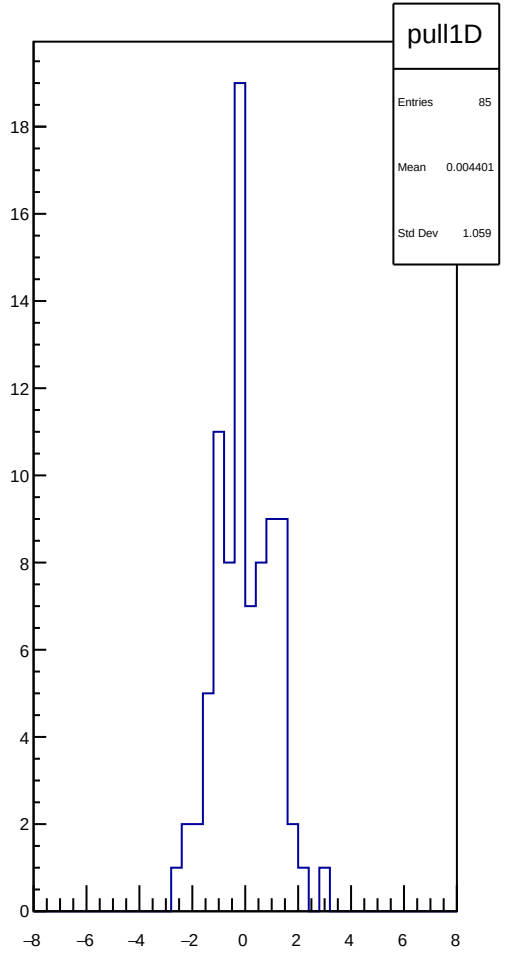

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 95.24 / 84
p0 −743.1± 1810
pull
Entries 85
Mean −184.1
Std Dev 0
pull1D
Entries 85
Mean 0.004401
Std Dev 1.059

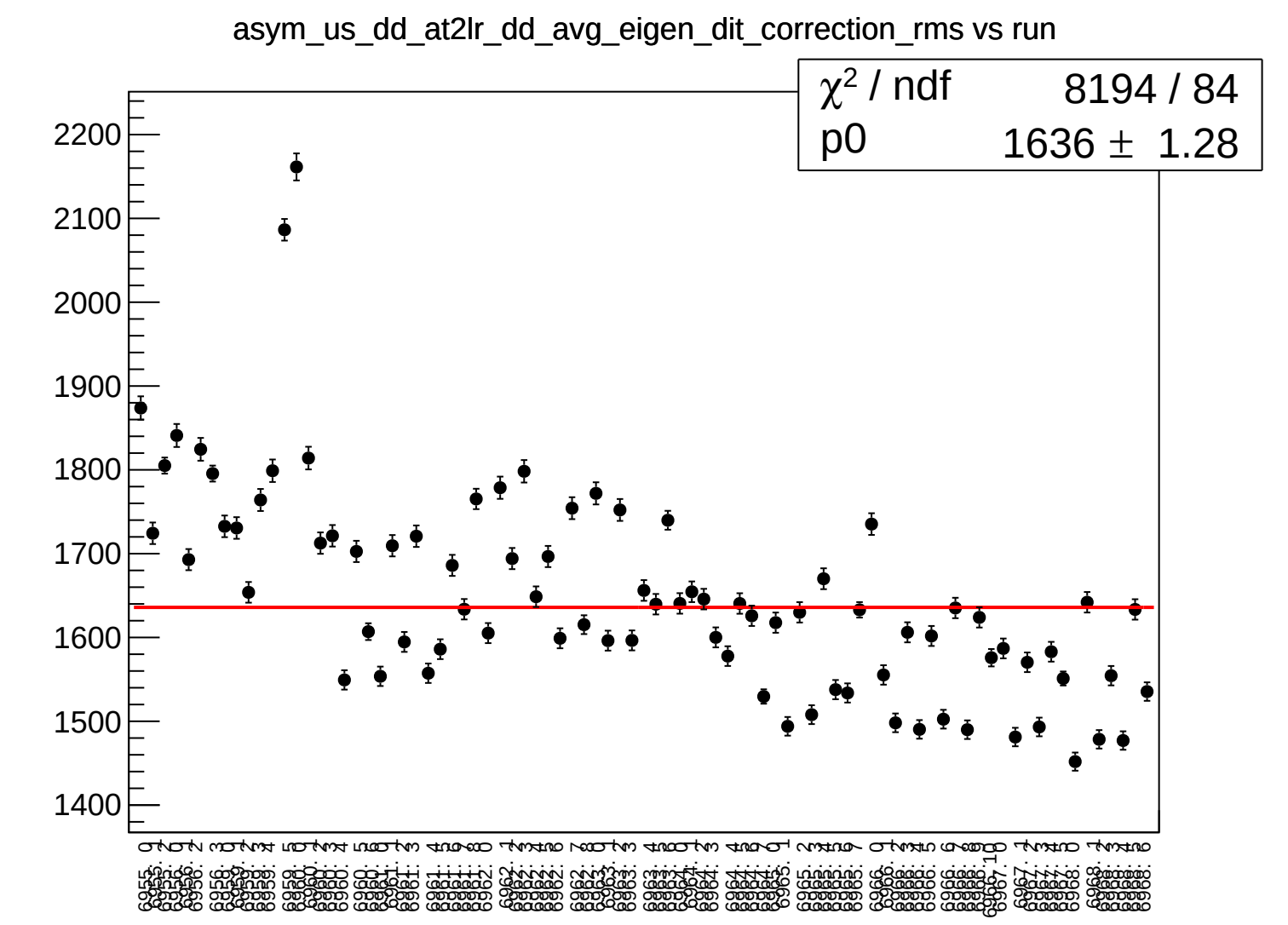

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 8194 / 84
p0 1636 ± 1.28
2200
2100
2000
1900
1800
1700
1600
1500
1400

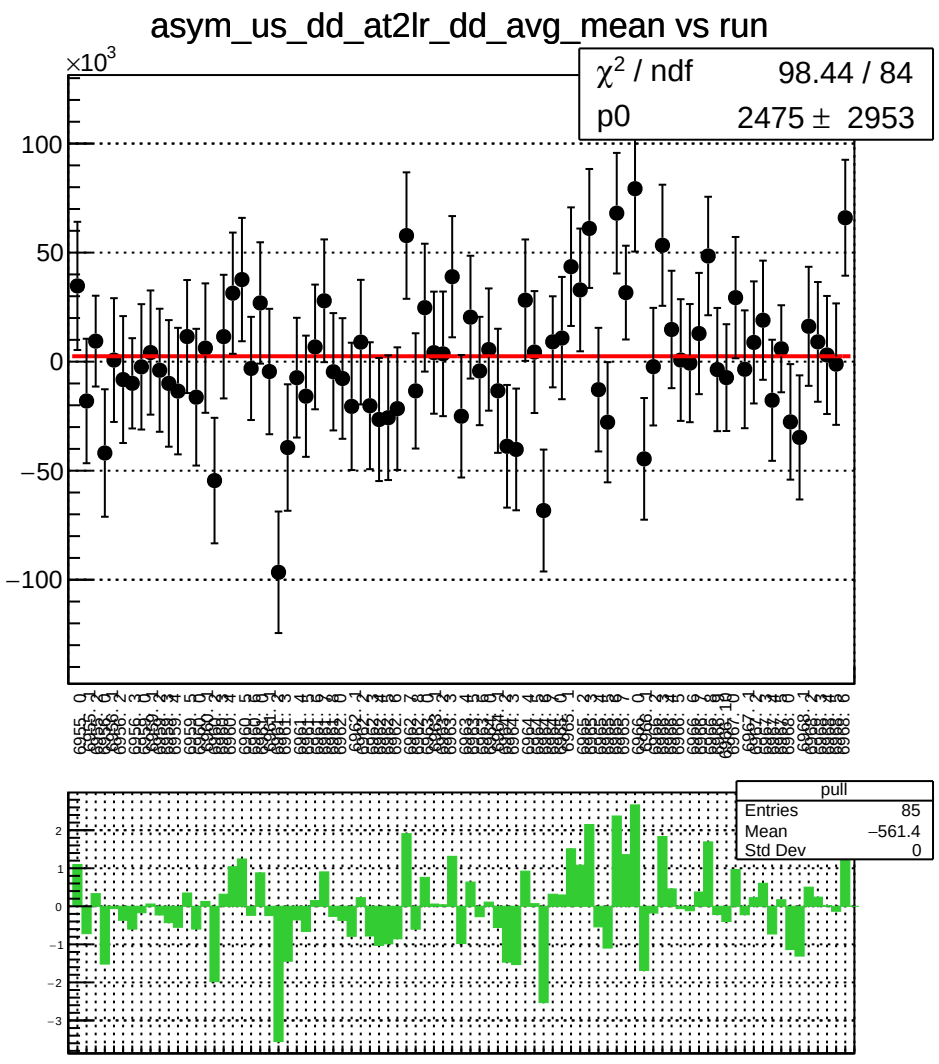

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.78 / 84
p0 1767 ± 2390
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −638.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.008451
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

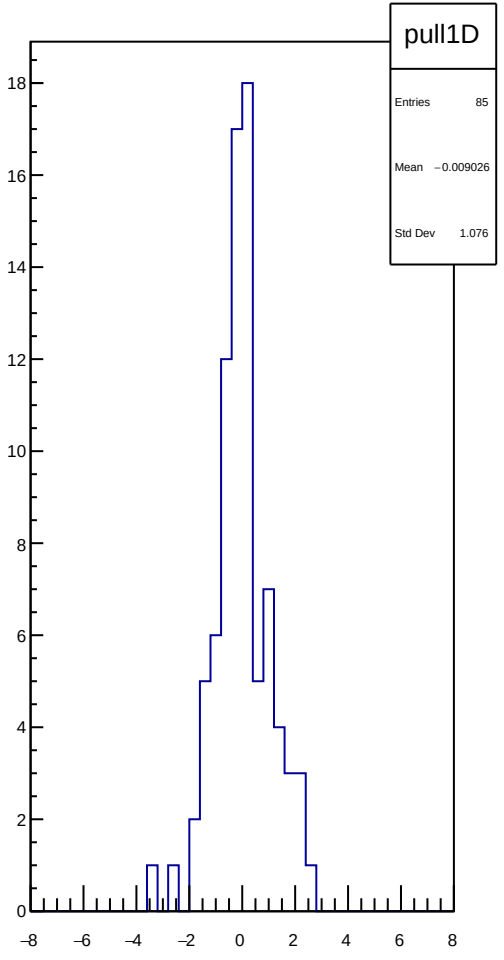

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 79.49 / 84
p0 2166 ± 1.69
2220
2200
2180
2160
2140
2120

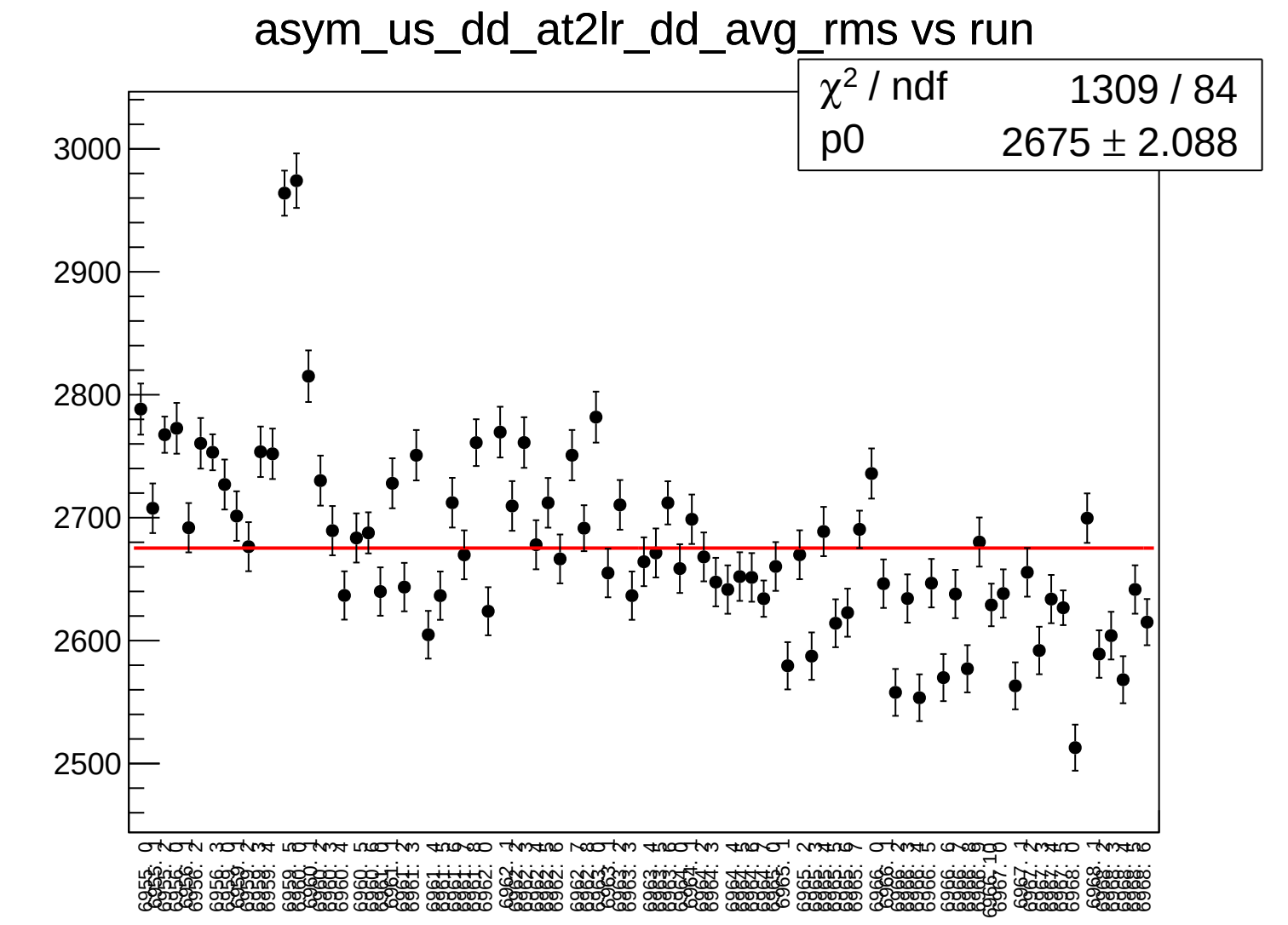

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.24 / 84
p0 −743.1± 1810
pull
Entries 85
Mean −184.1
Std Dev 0

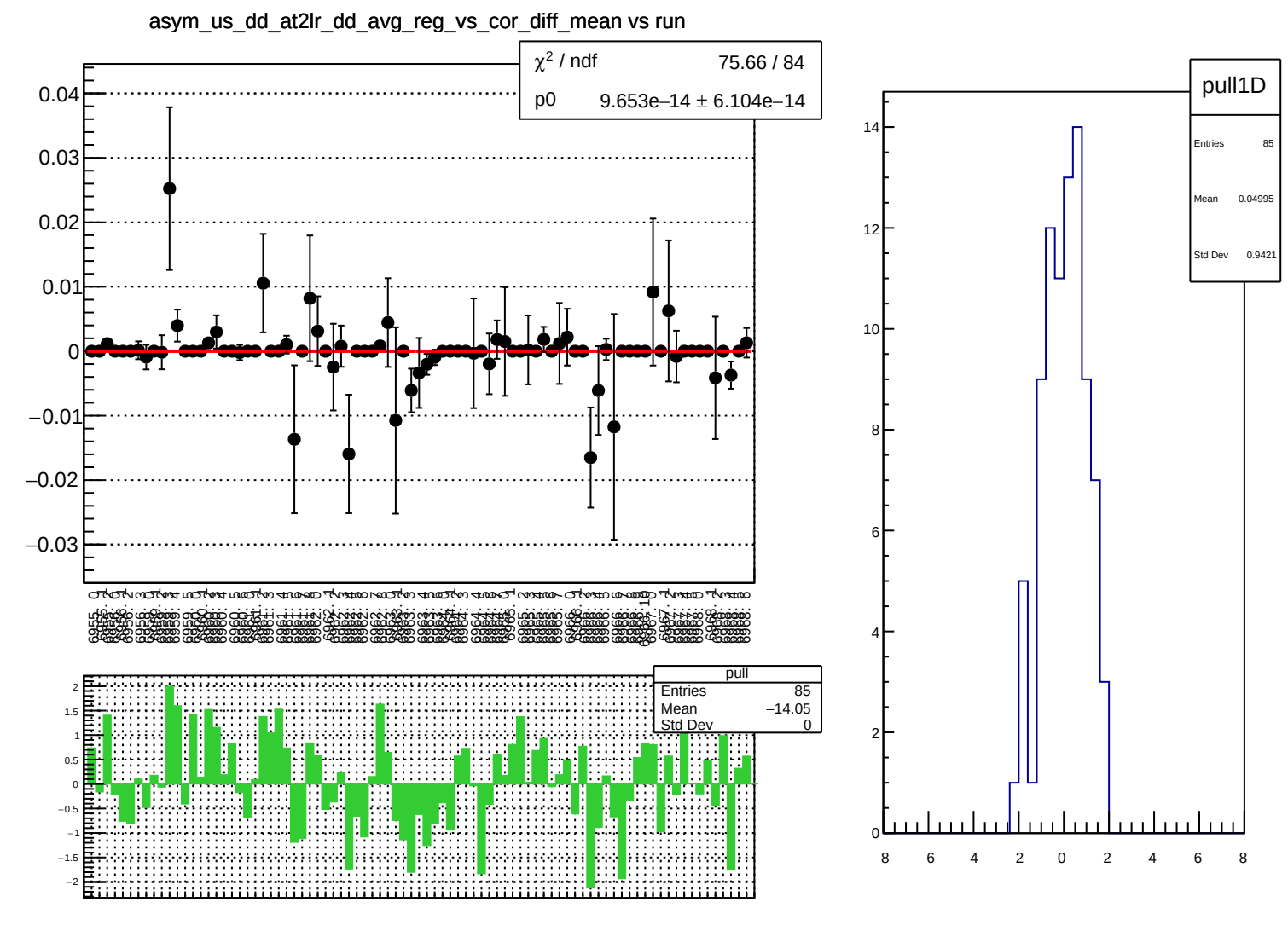

pull1D
Entries 85
Mean 0.004401
Std Dev 1.059

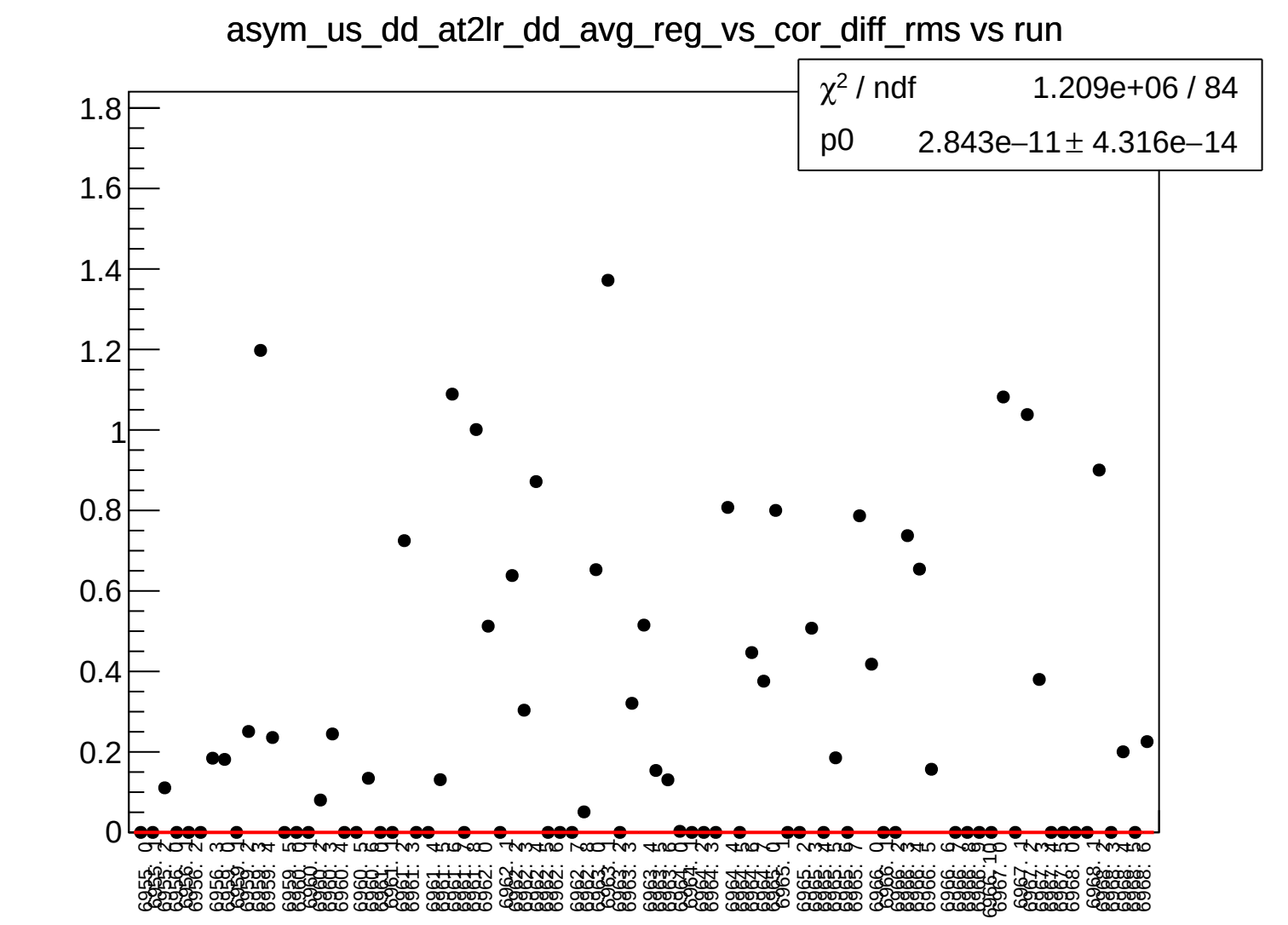

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 8194 / 84
p0 1636 ± 1.28
2200
2100
2000
1900
1800
1700
1600
1500
1400

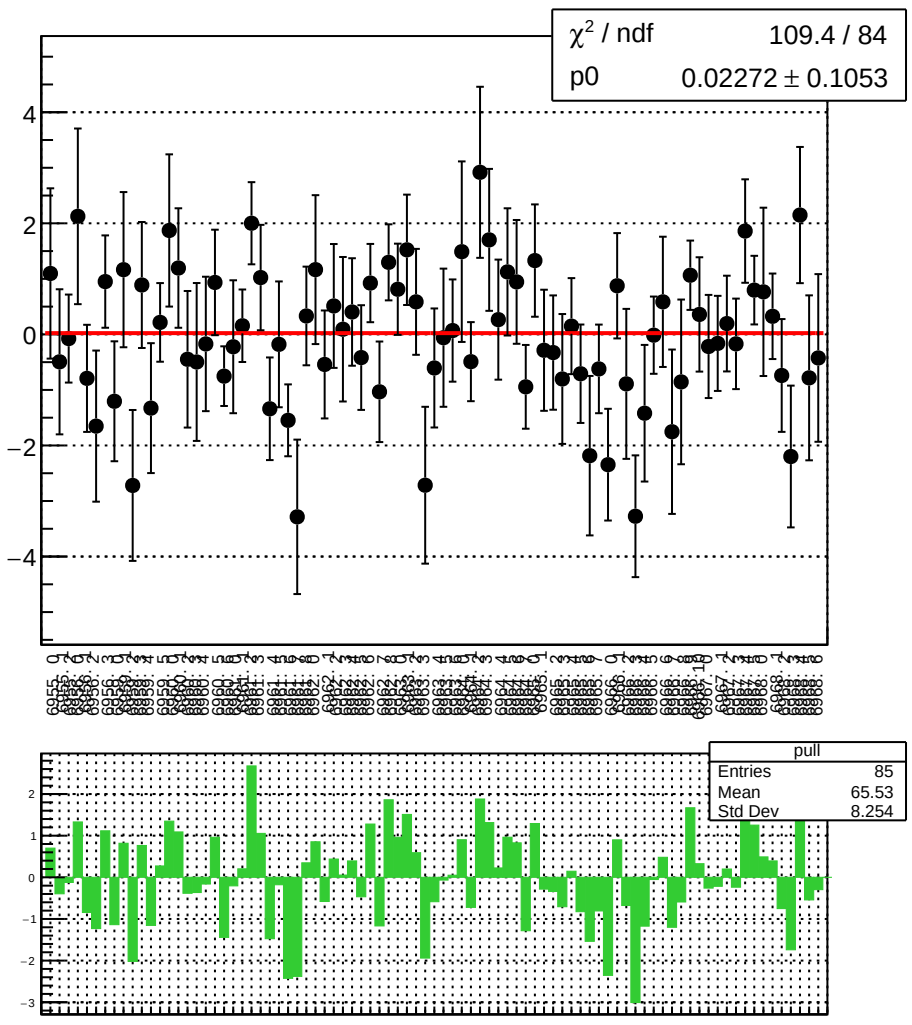

asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 98.44 / 84
p0 2475 ± 2953
×10³
pull
Entries 85
Mean −561.4
Std Dev 0

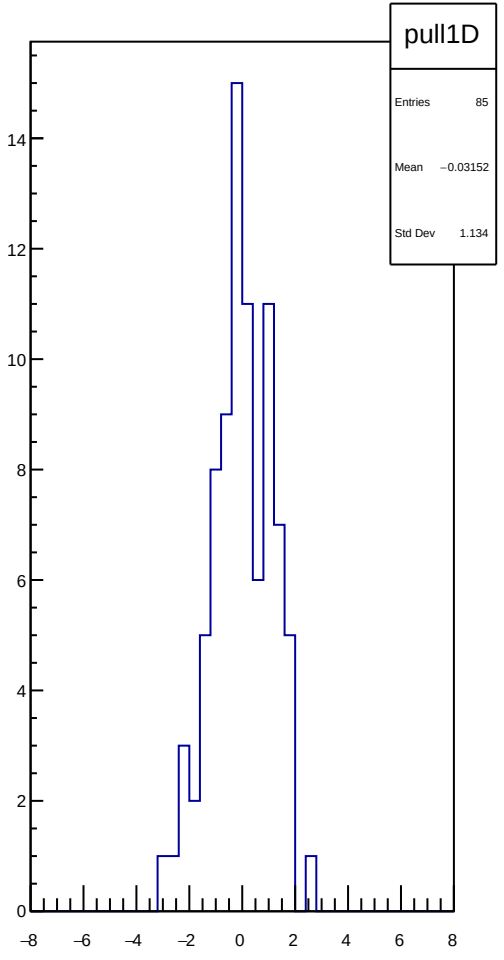

pull1D
Entries 85
Mean −0.009026
Std Dev 1.076

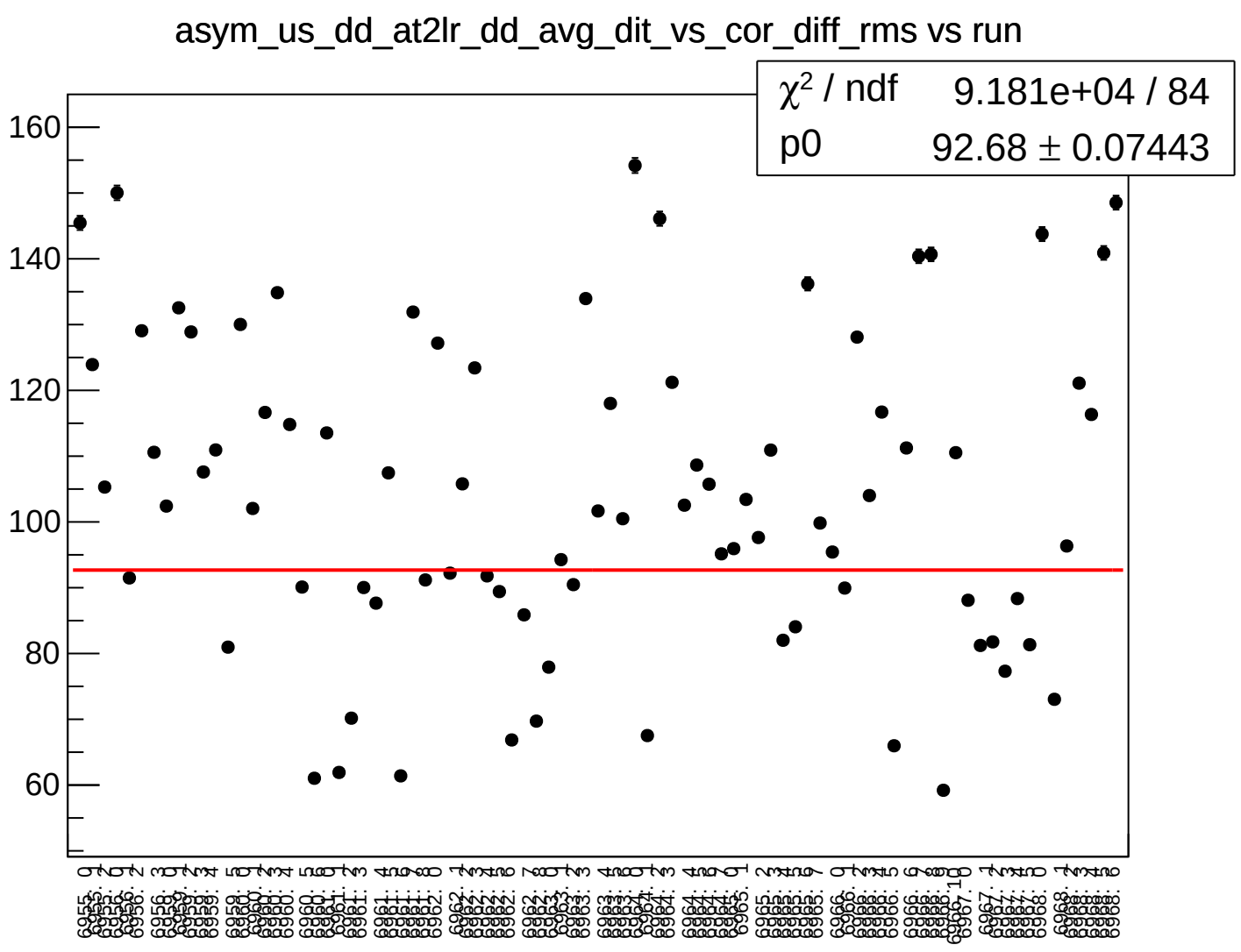

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1309 / 84
p0 2675 ± 2.088
3000
2900
2800
2700
2600
2500


asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.66 / 84
p0 9.653e−14 ± 6.104e−14
pull
Entries 85
Mean −14.05
Std Dev 0
pull1D
Entries 85
Mean 0.04995
Std Dev 0.9421

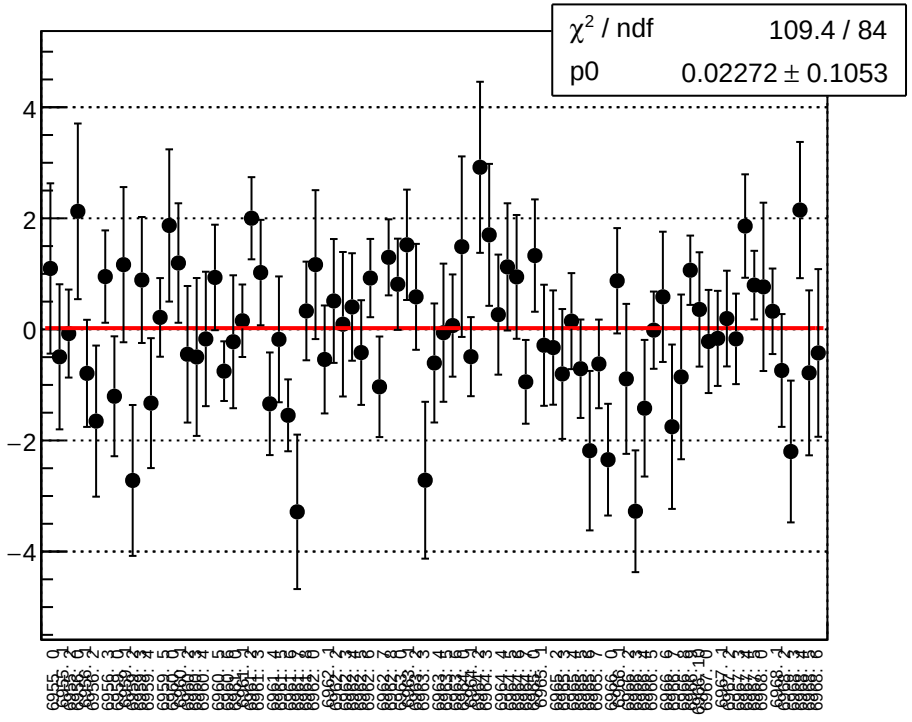

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.209e+06 / 84
p0 2.843e−11 ± 4.316e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

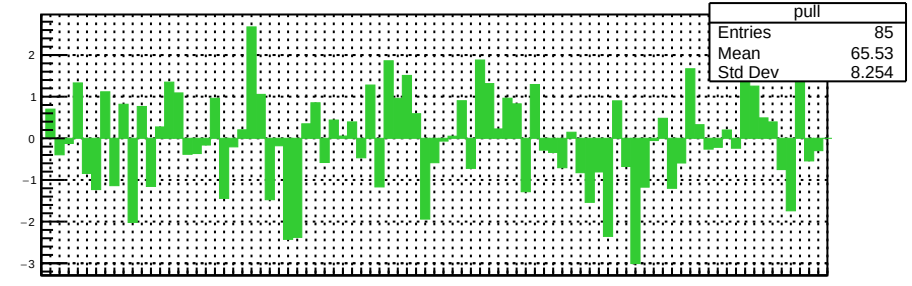

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 84
p0 0.02272 ± 0.1053
pull
Entries 85
Mean 65.53
Std Dev 8.254

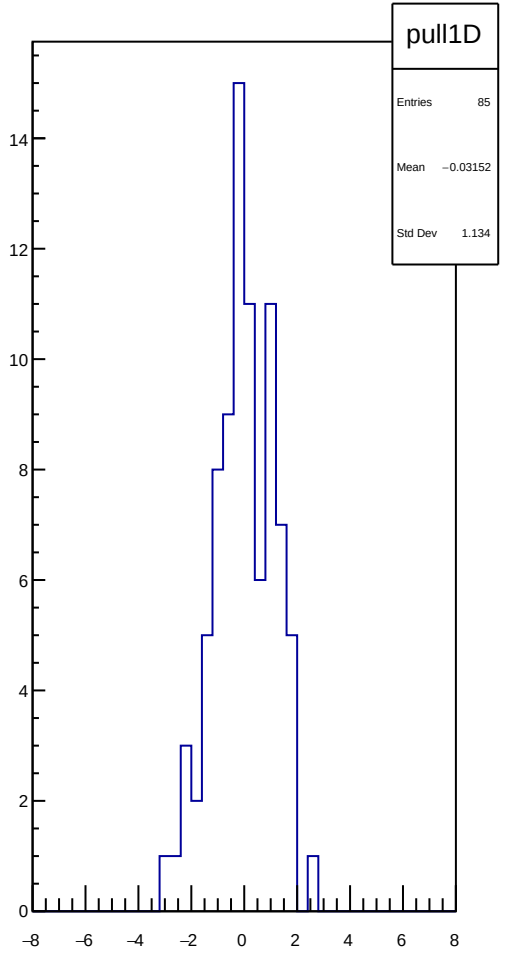

pull1D
Entries 85
Mean −0.03152
Std Dev 1.134

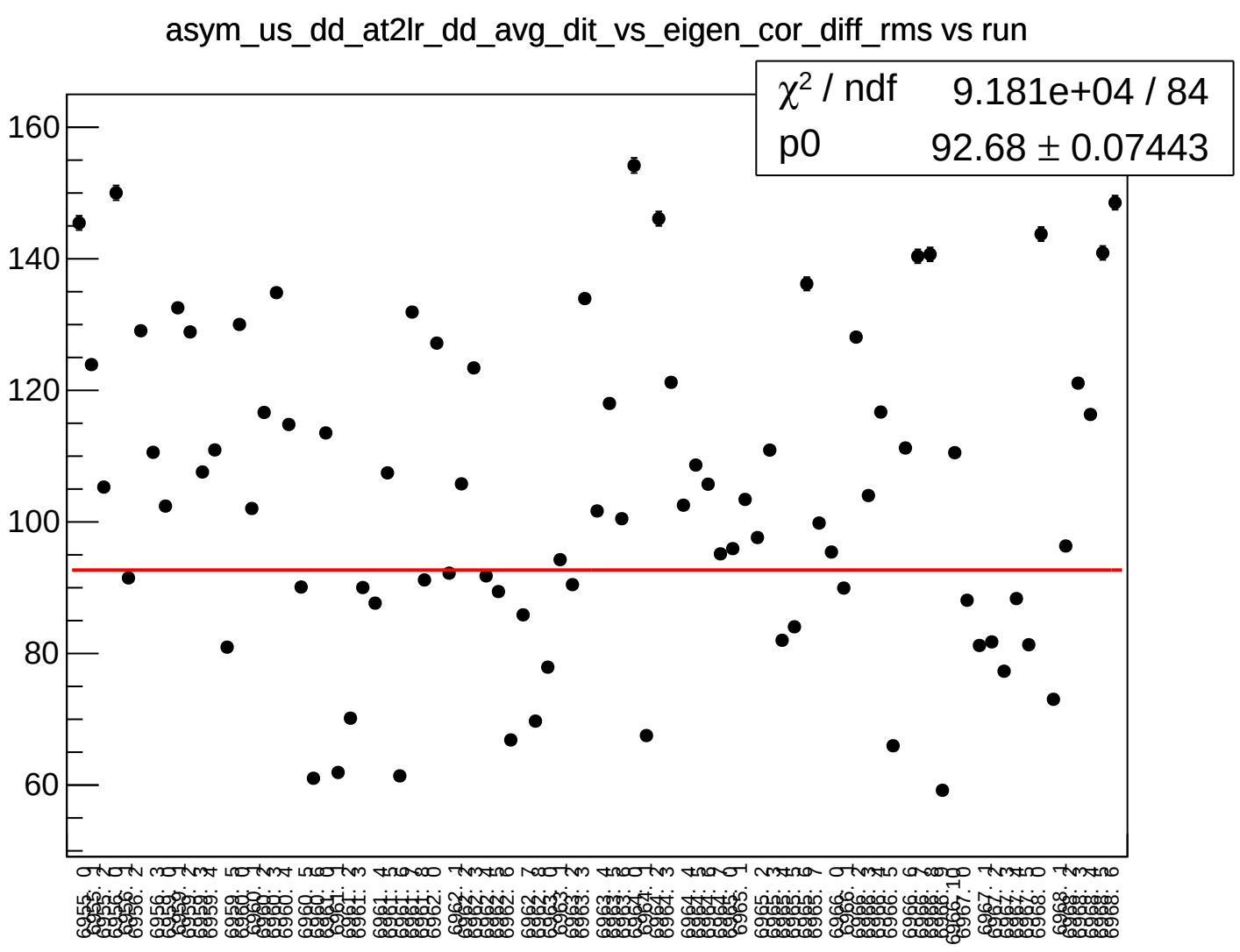

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.181e+04 / 84
p0 92.68 ± 0.07443
160
140
120
100
80
60

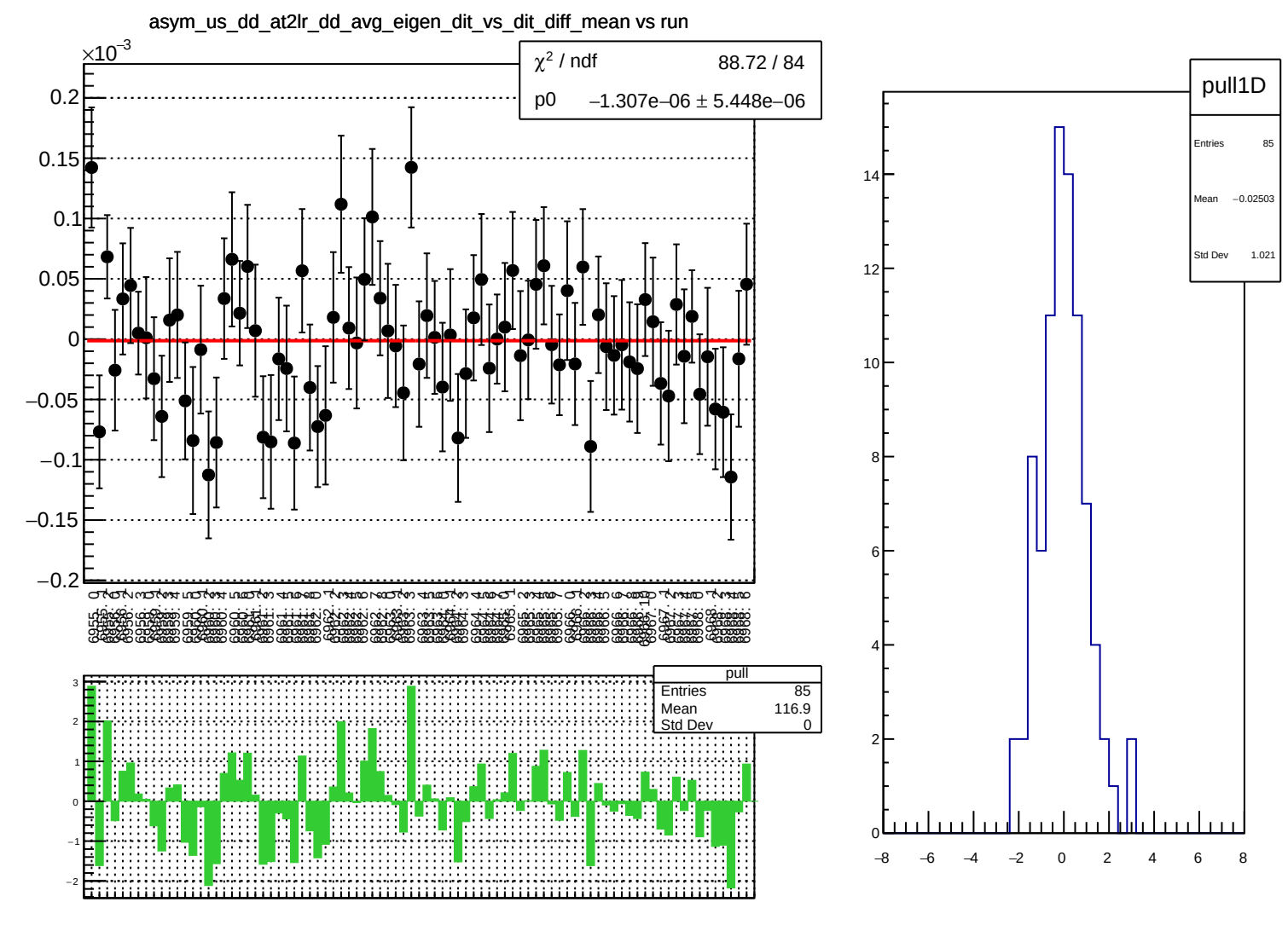
asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run

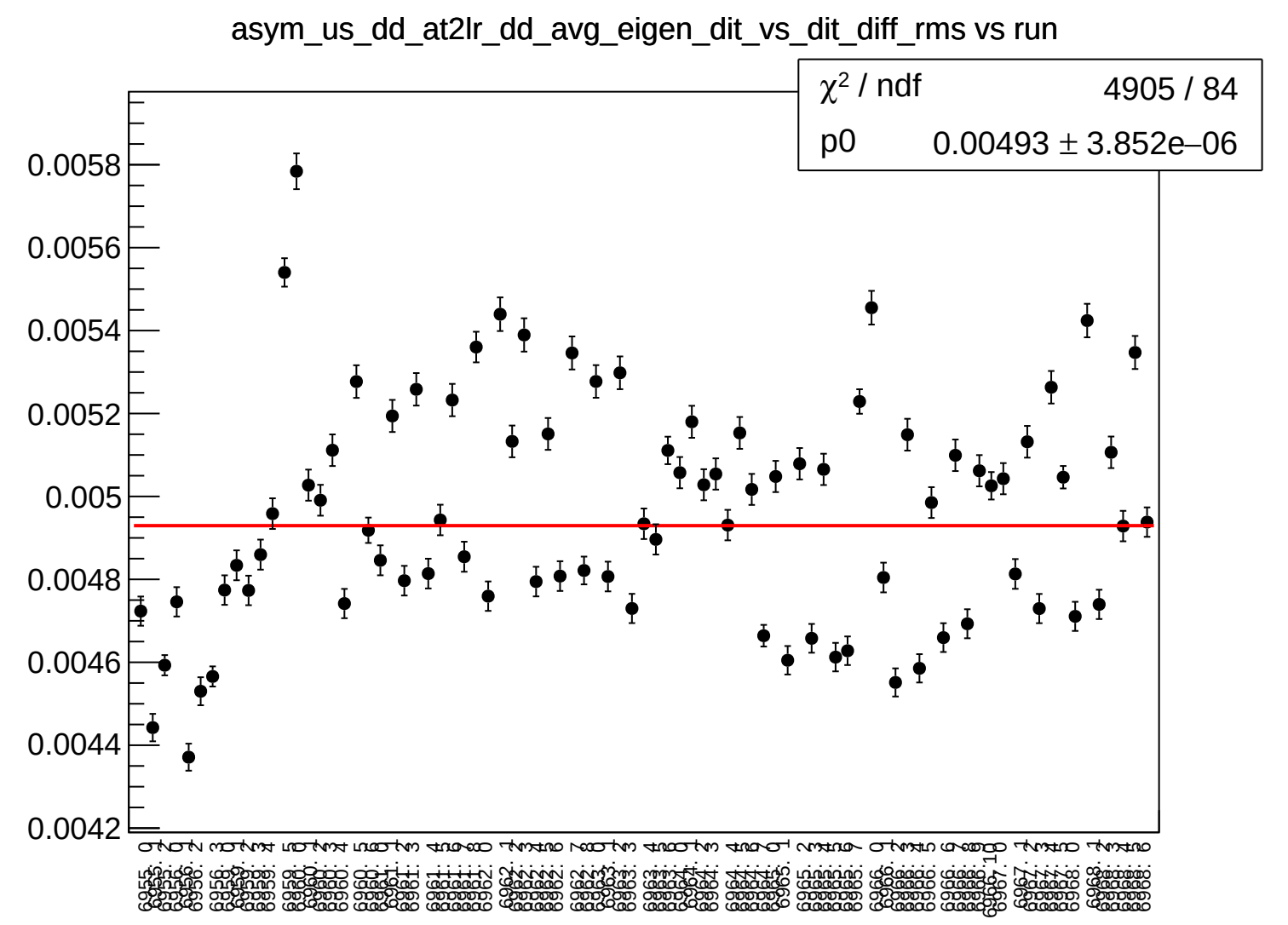


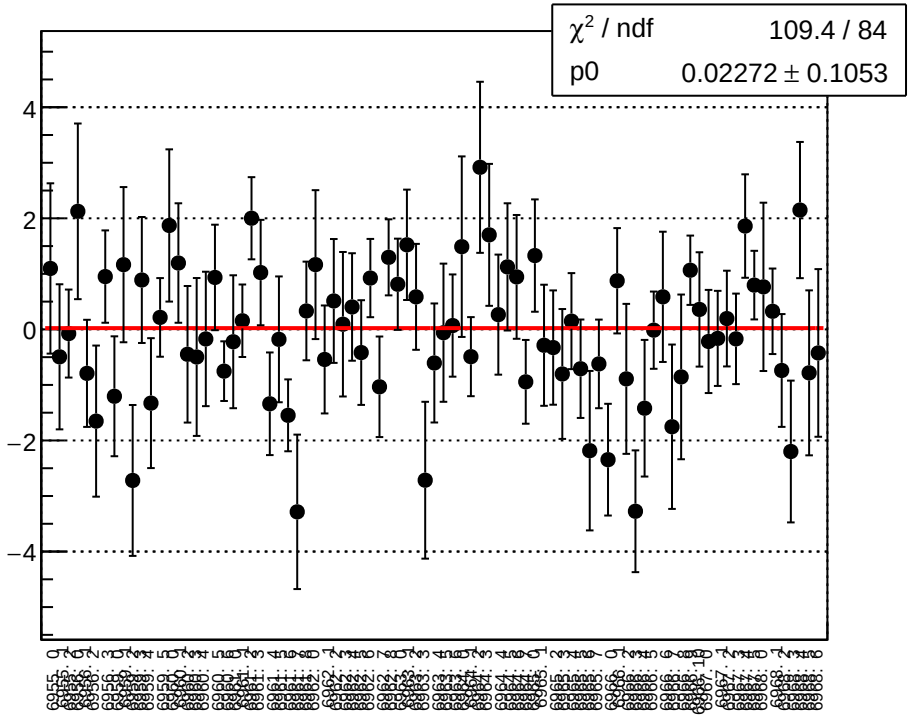



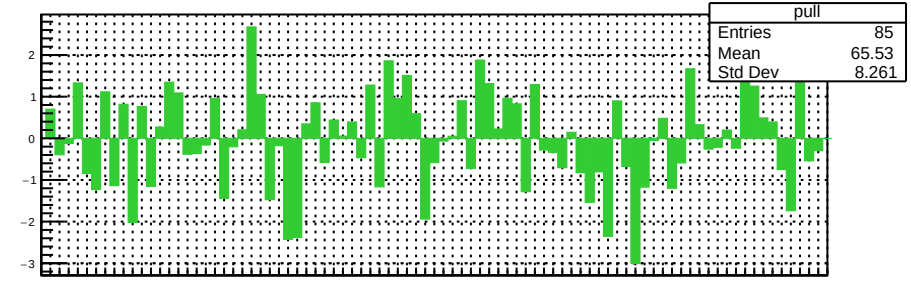

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.181e+04 / 84
p0 92.68 ± 0.07443
160
140
120
100
80
60

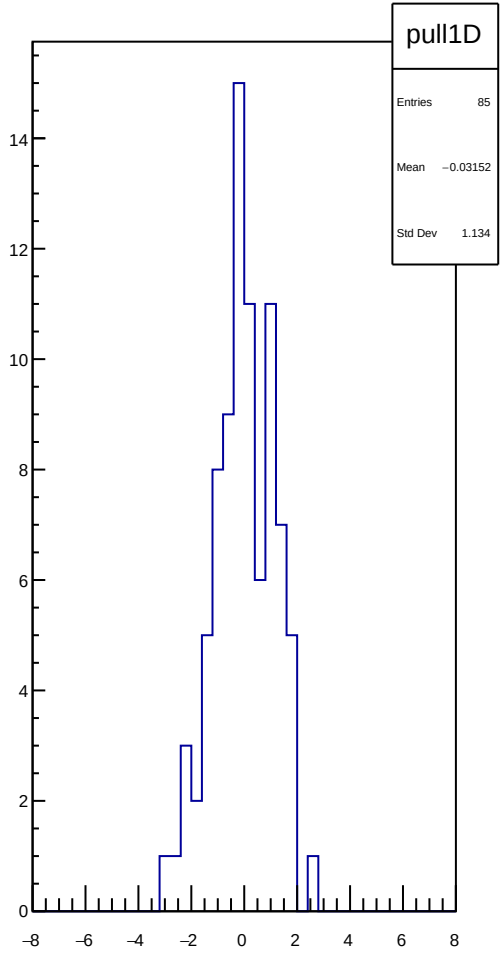

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.72 / 84
p0 −1.307e−06 ± 5.448e−06
pull
Entries 85
Mean 116.9
Std Dev 0
pull1D
Entries 85
Mean −0.02503
Std Dev 1.021

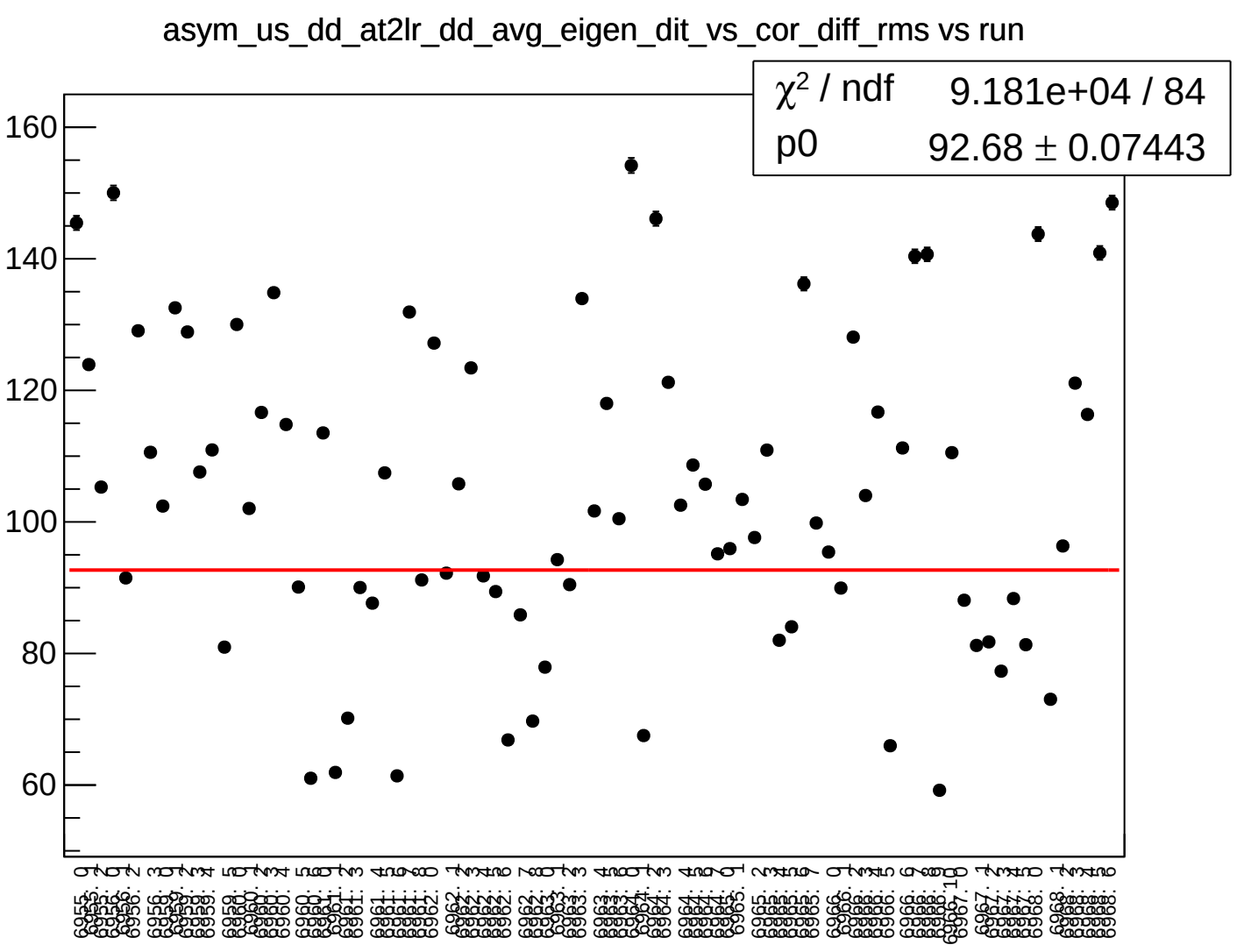

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4905 / 84
p0 0.00493 ± 3.852e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

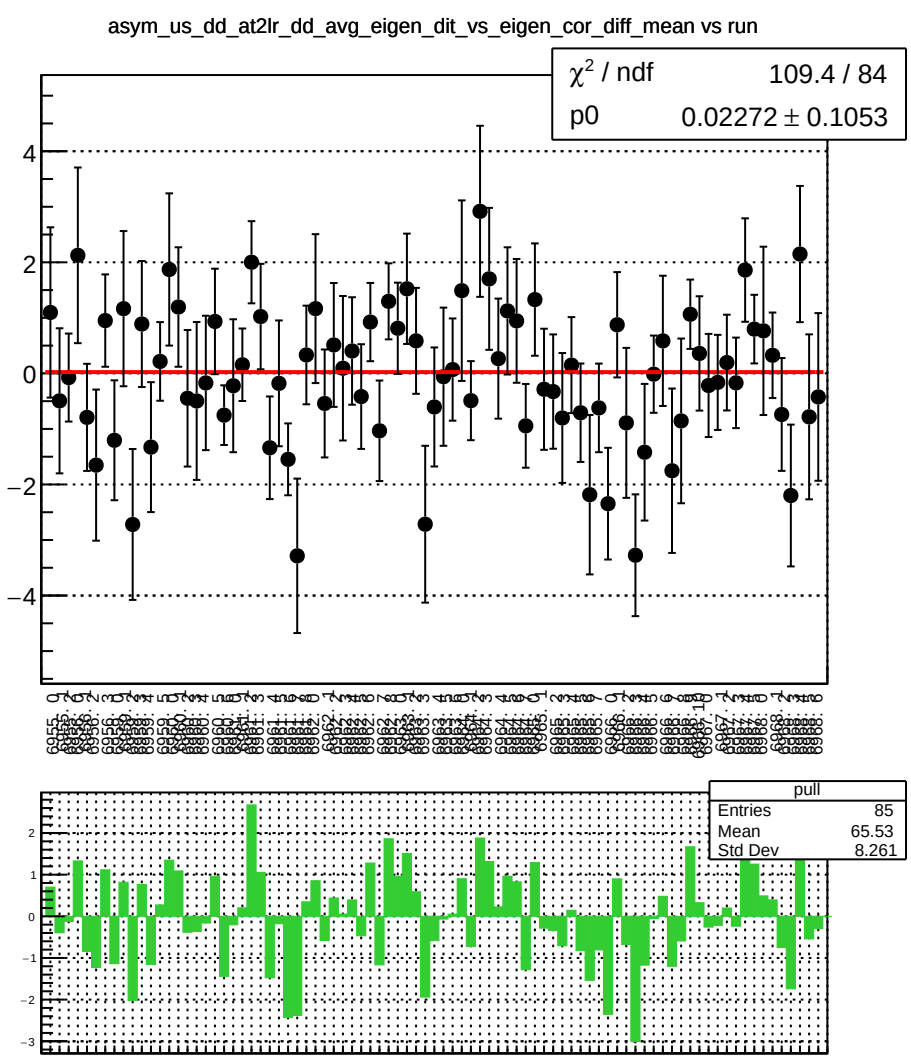
asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

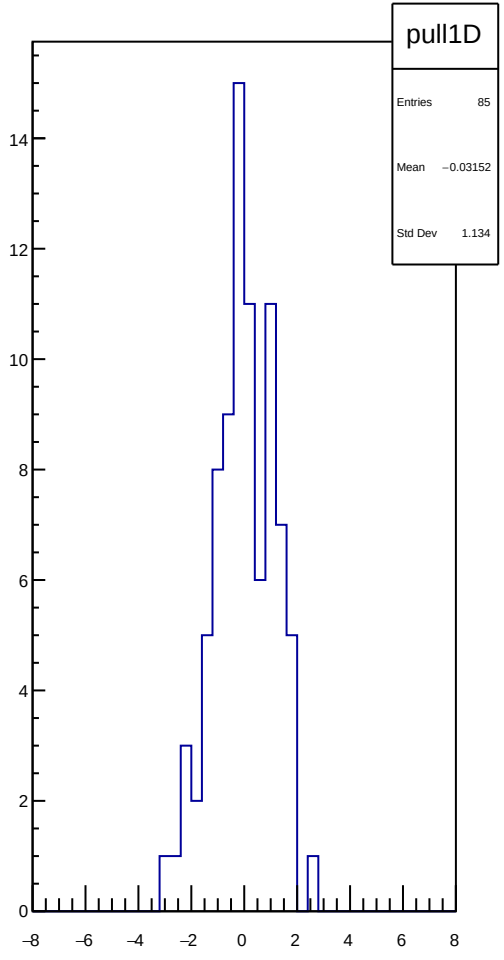


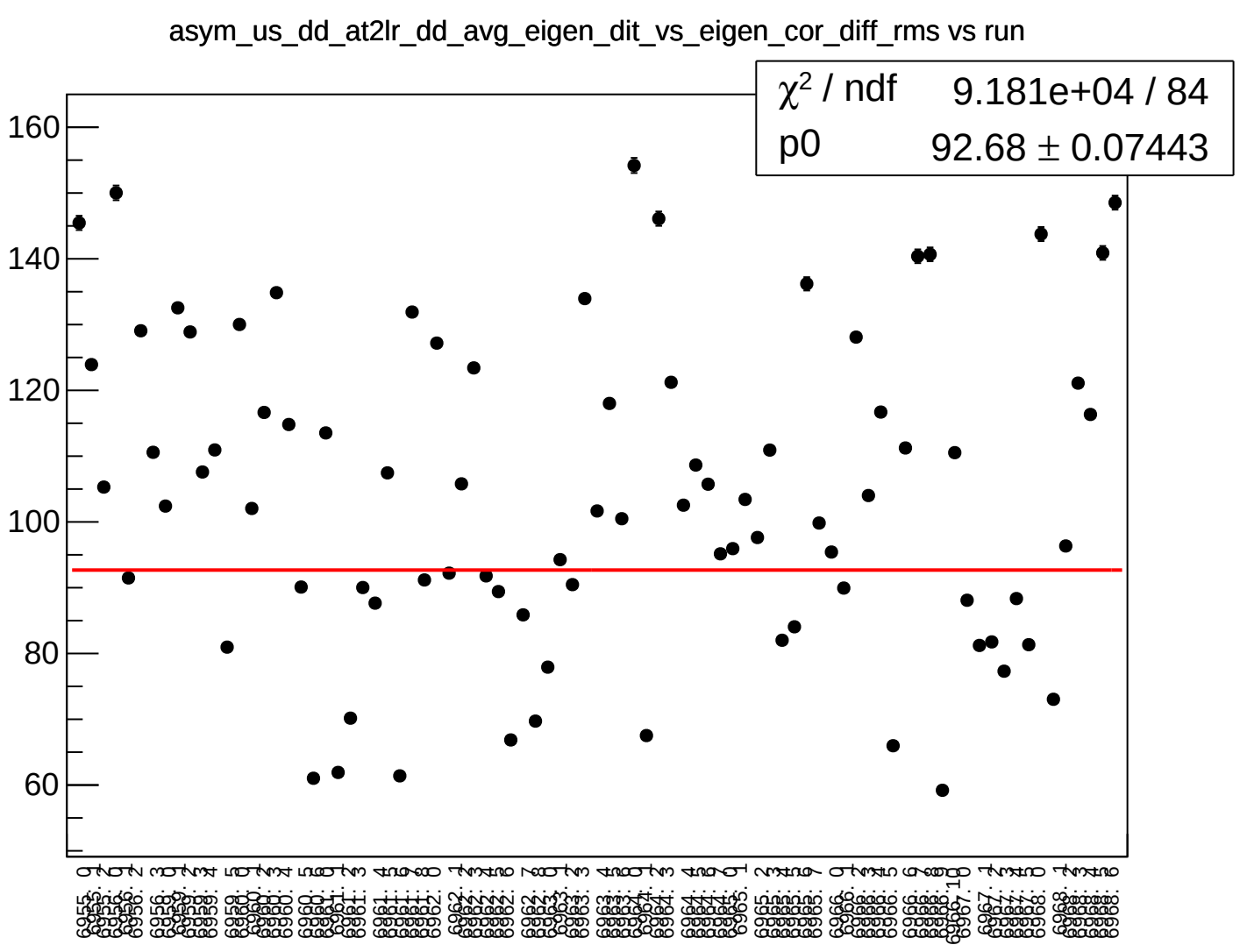



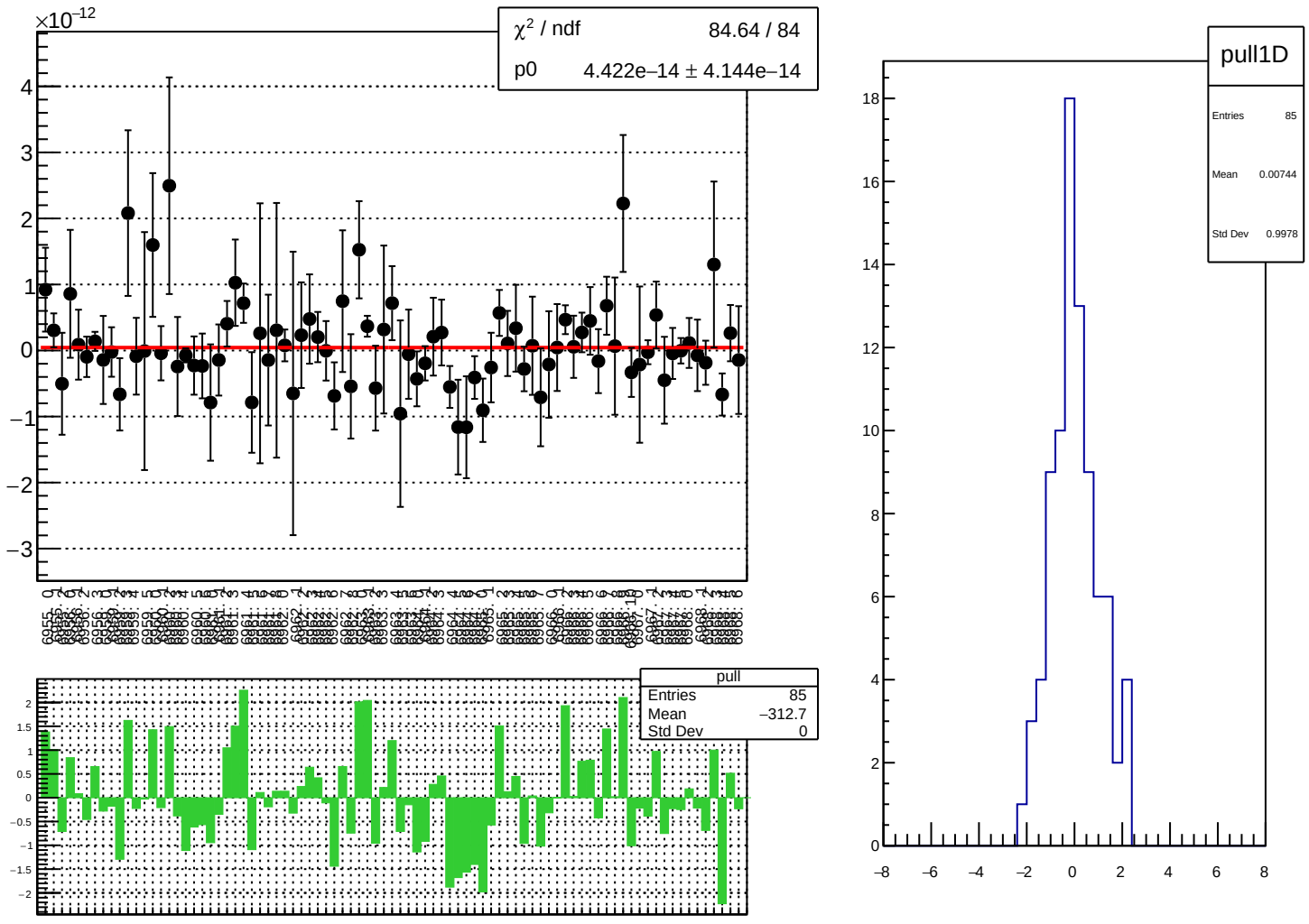



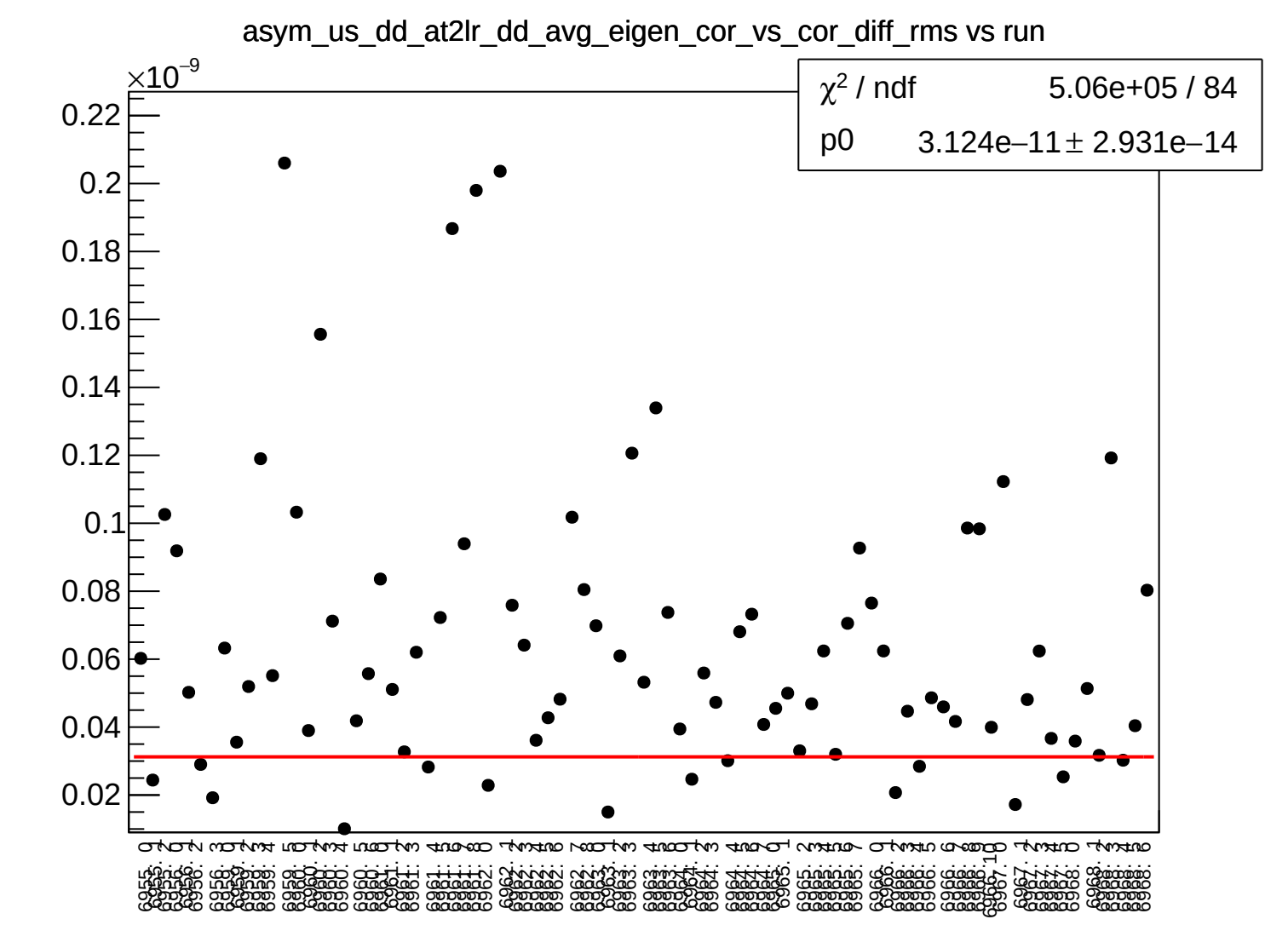

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.181e+04 / 84
p0 92.68 ± 0.07443
160
140
120
100
80
60

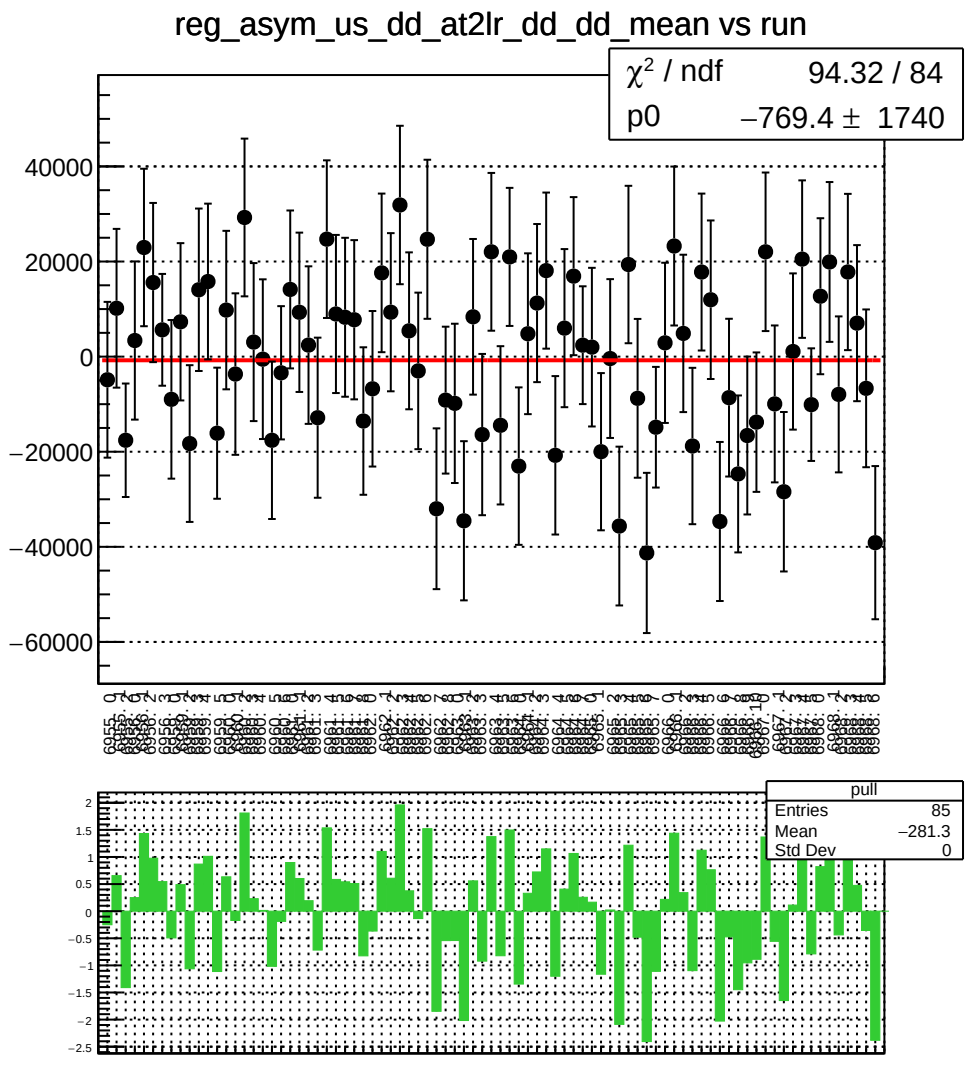

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.4 / 84
p0 0.02272 ± 0.1053
pull
Entries 85
Mean 65.53
Std Dev 8.261

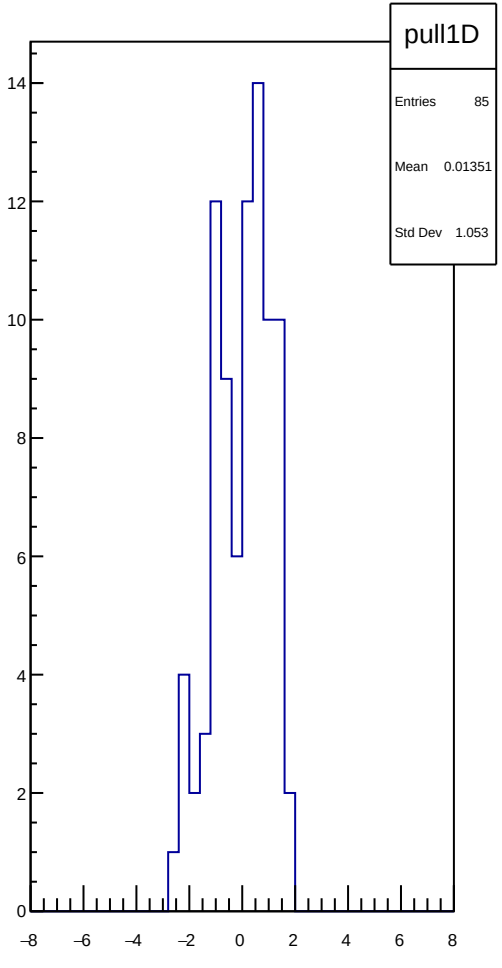

pull1D
Entries 85
Mean −0.03152
Std Dev 1.134

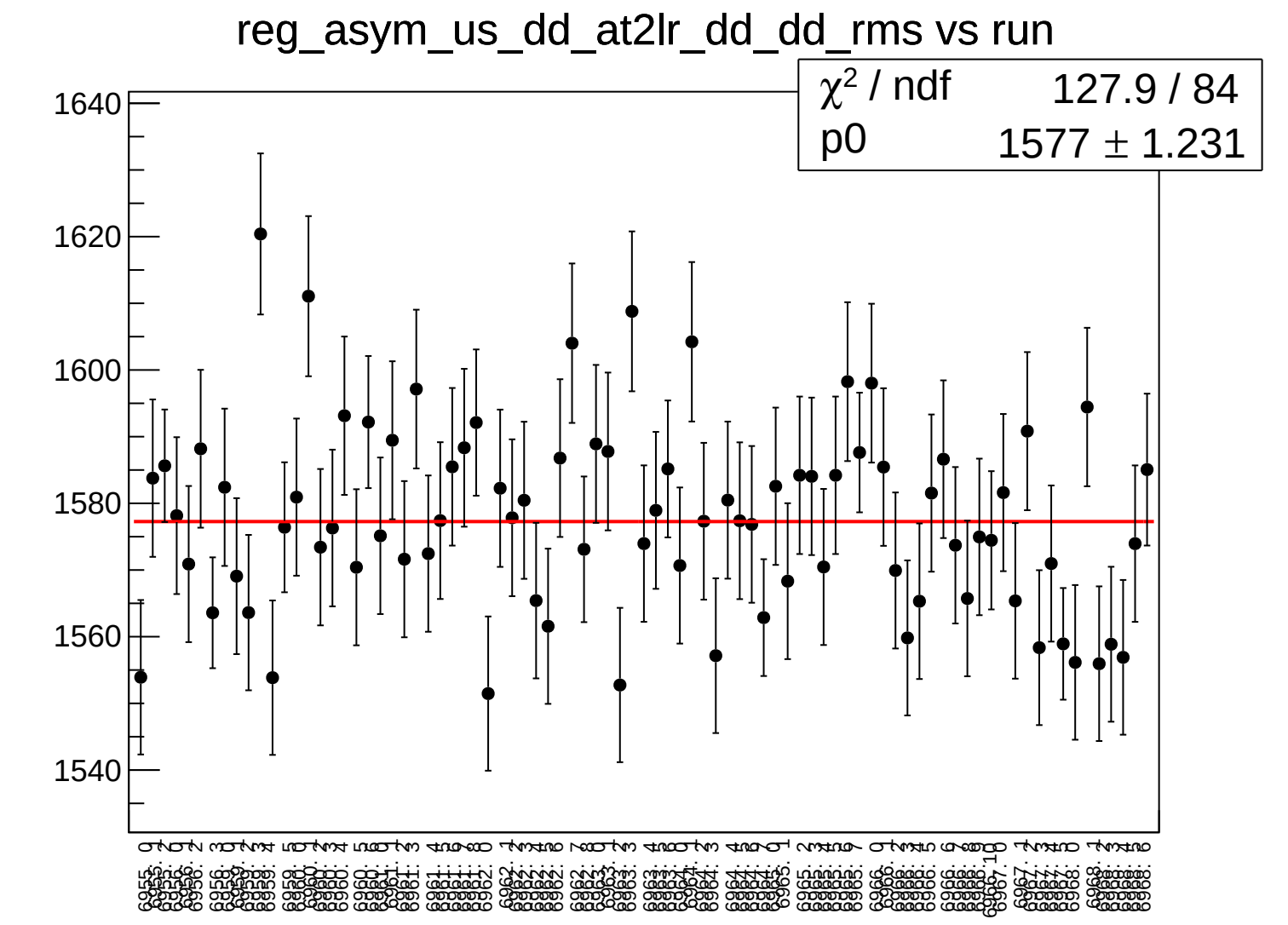

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.181e+04 / 84
p0 92.68 ± 0.07443
160
140
120
100
80
60

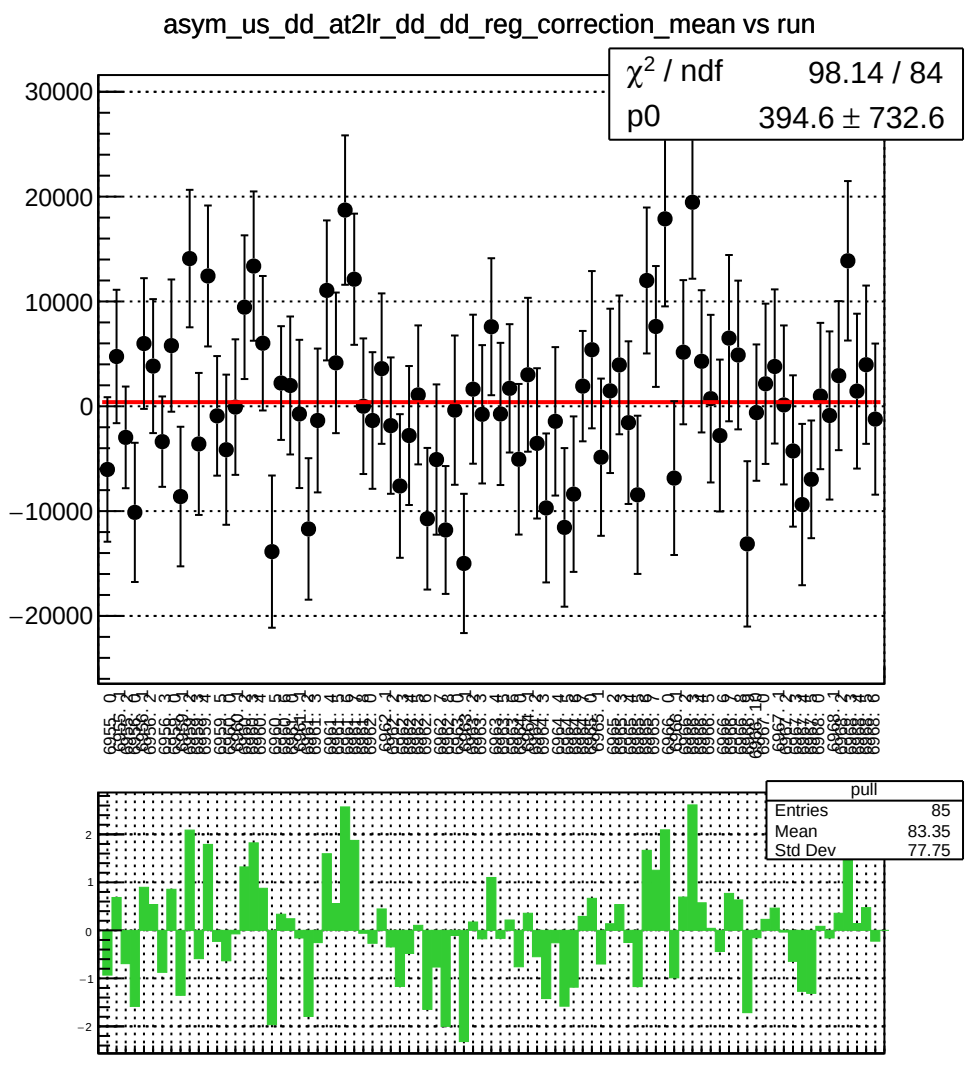

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.64 / 84
p0 4.422e−14 ± 4.144e−14
pull
Entries 85
Mean −312.7
Std Dev 0
pull1D
Entries 85
Mean 0.00744
Std Dev 0.9978

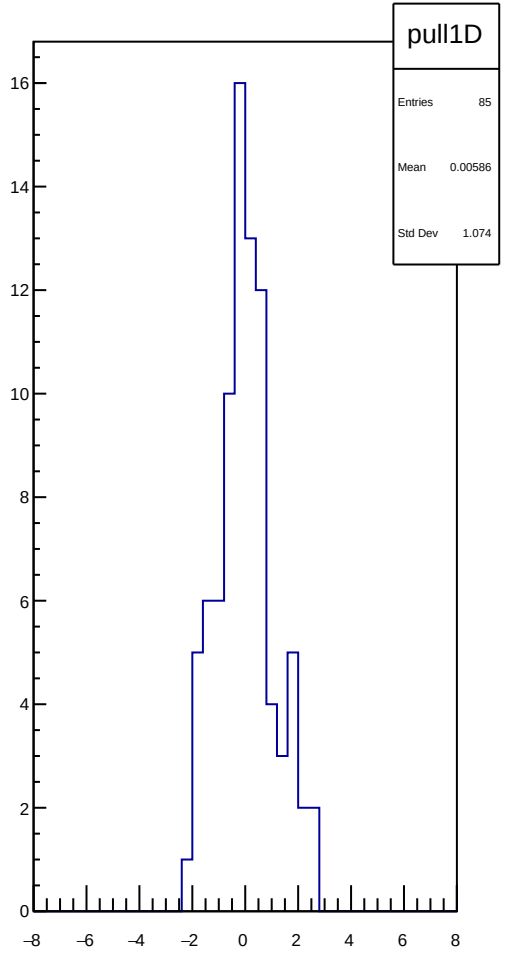

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.06e+05 / 84
p0 3.124e−11 ± 2.931e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

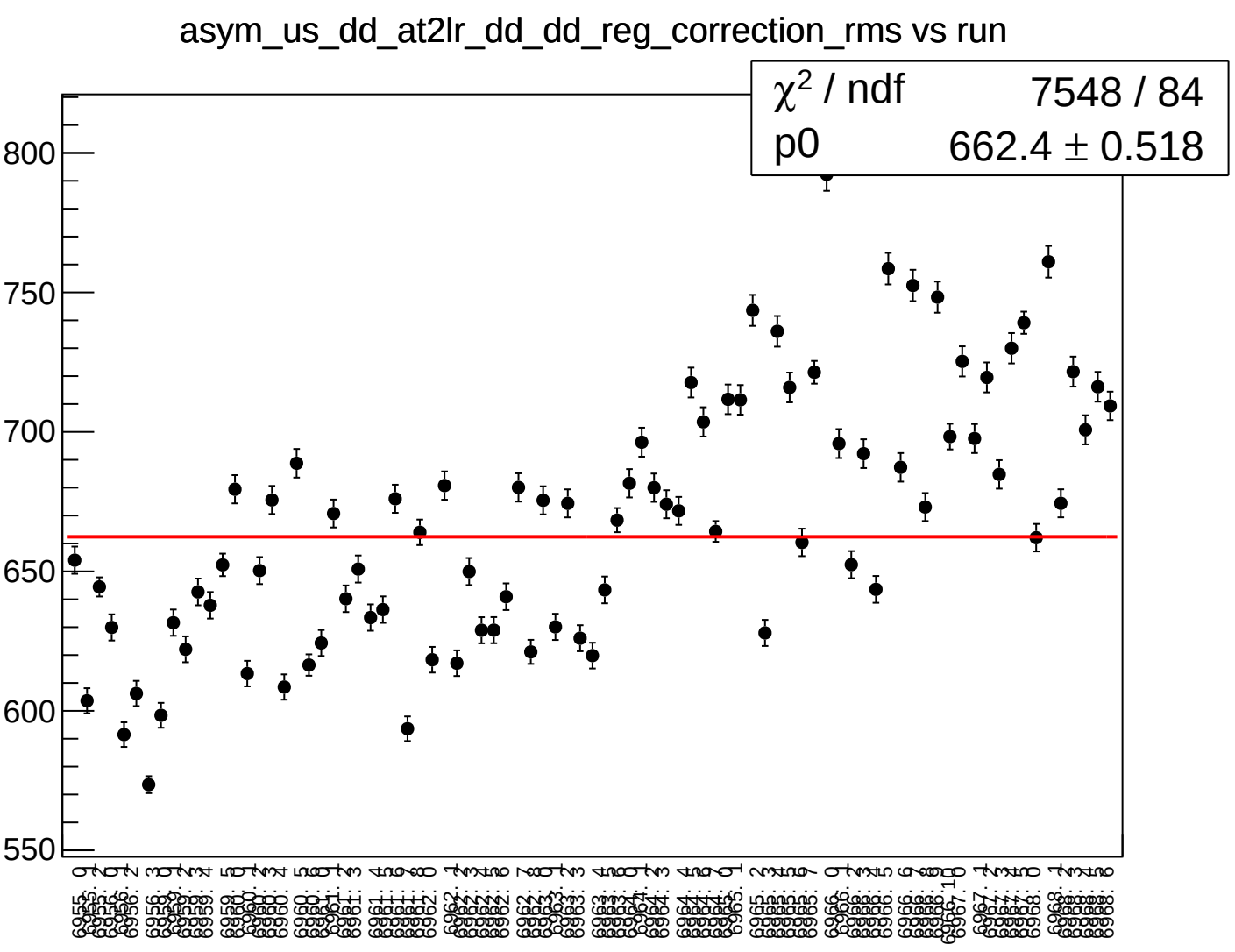

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.32 / 84
p0 −769.4 ± 1740
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −281.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

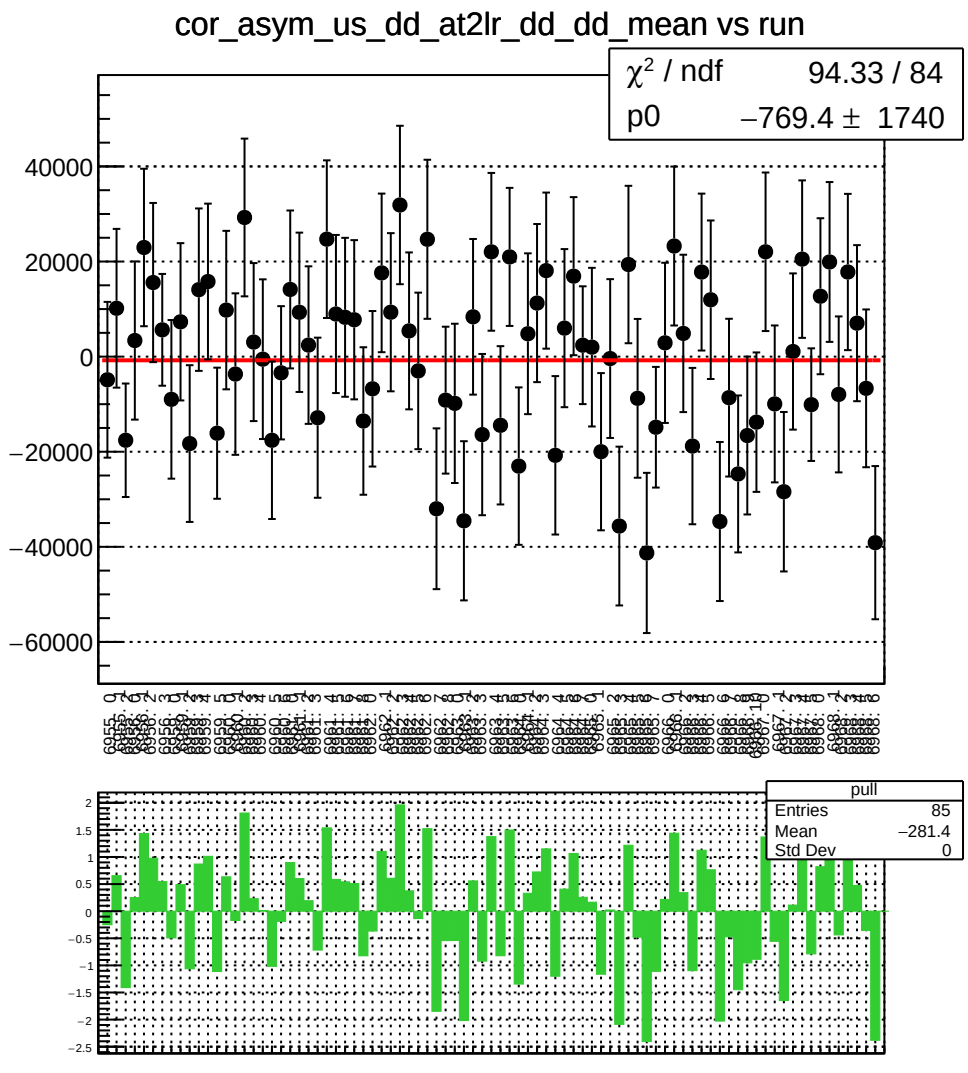

pull1D
Entries 85
Mean 0.01351
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

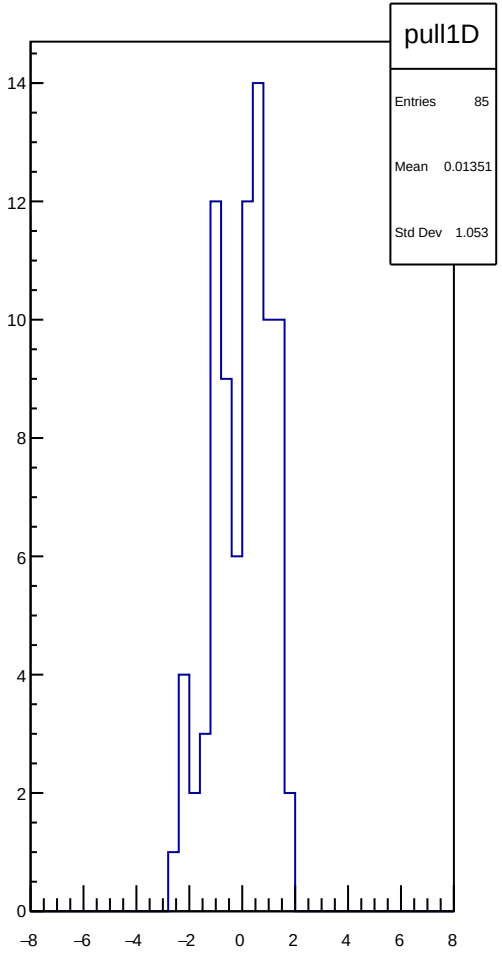

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 127.9 / 84
p0 1577 ± 1.231
1640
1620
1600
1580
1560
1540

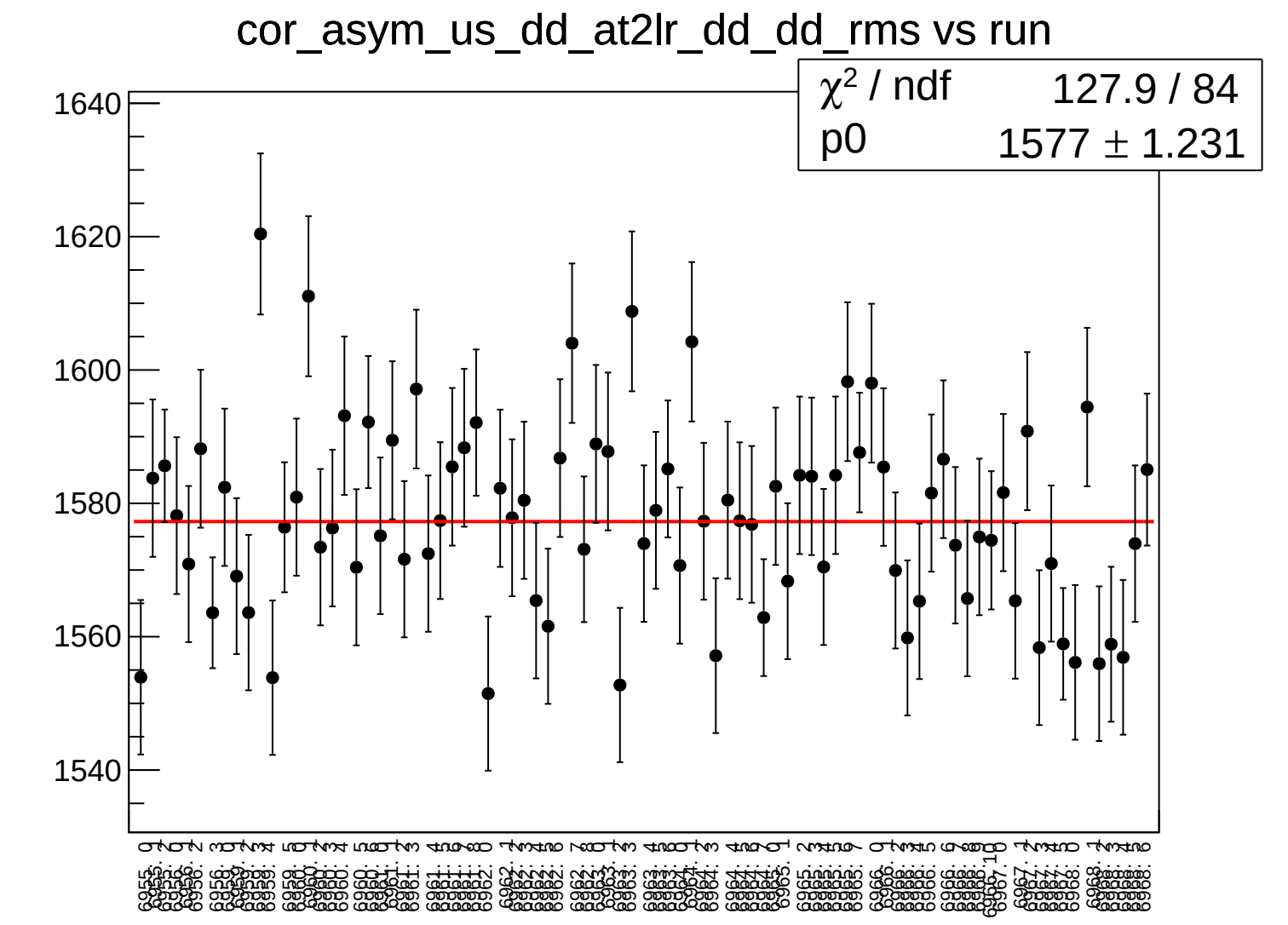

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 98.14 / 84
p0 394.6 ± 732.6
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 83.35
Std Dev 77.75
2
1
0
−1
−2

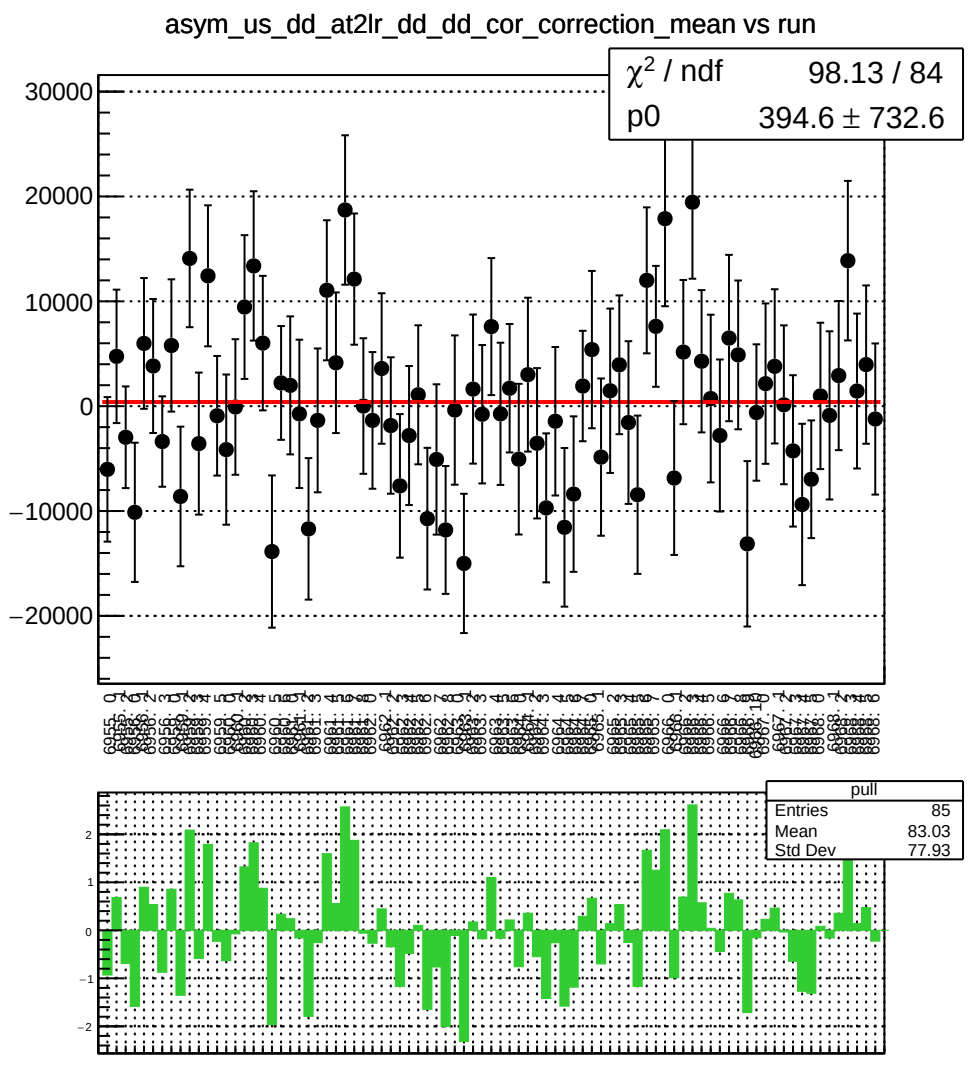

pull1D
Entries 85
Mean 0.00586
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

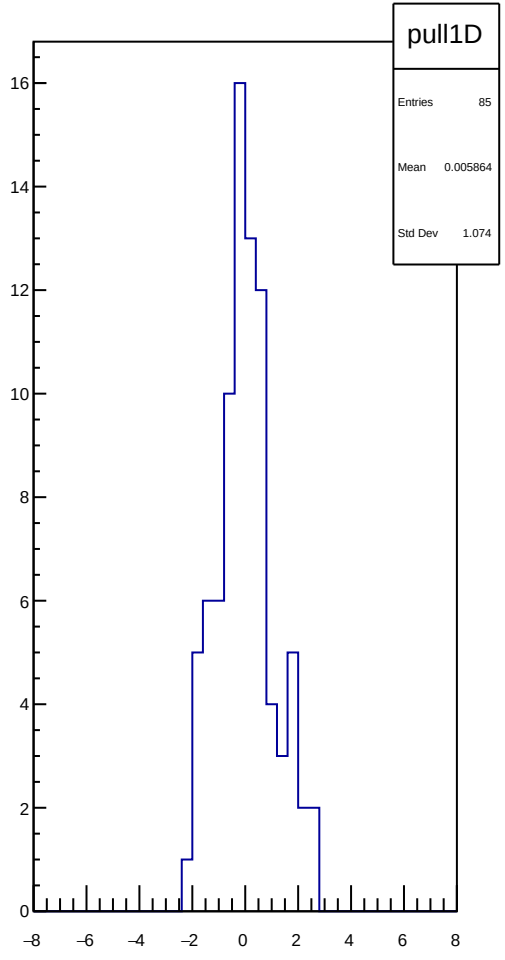

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 7548 / 84
p0 662.4 ± 0.518
800
750
700
650
600
550

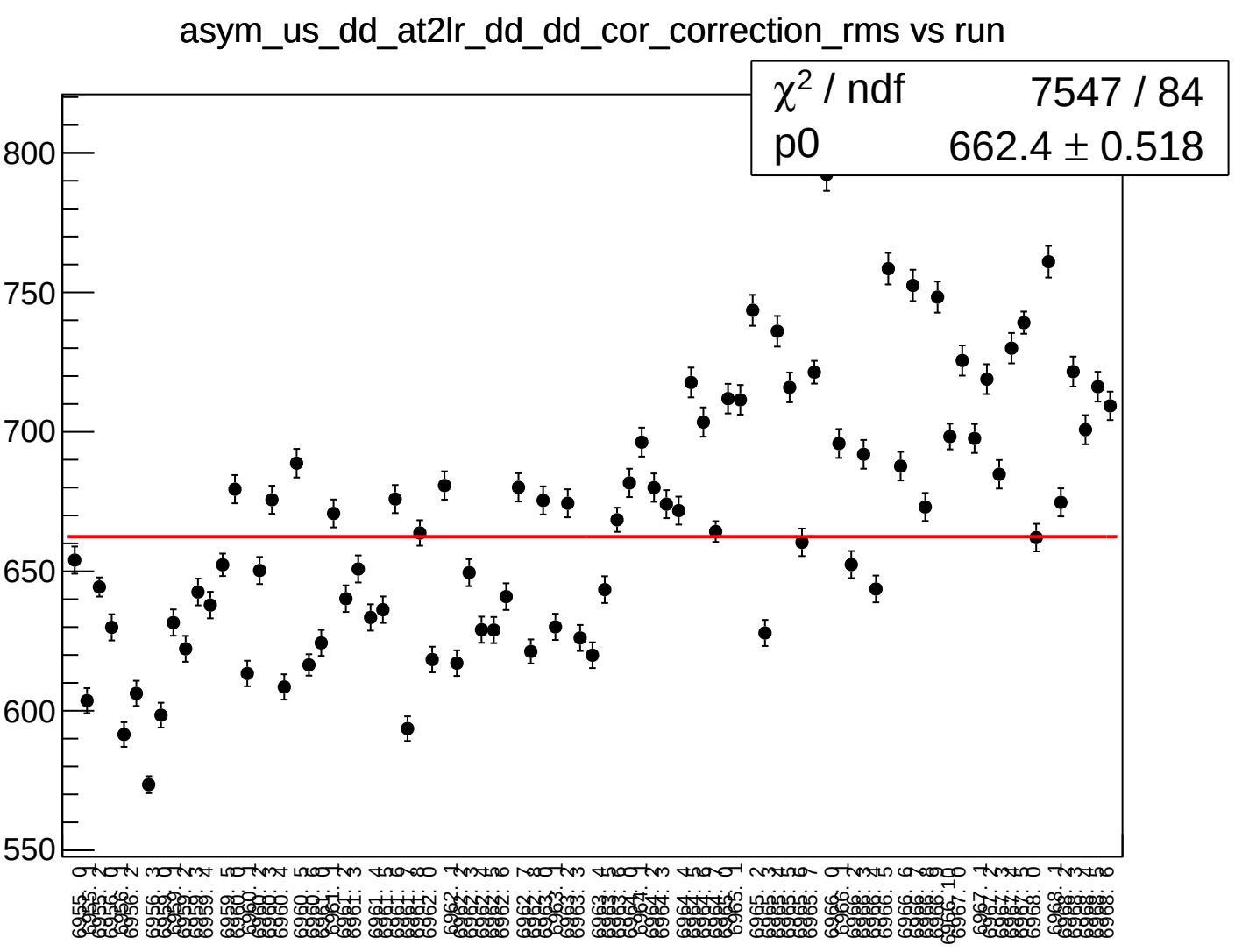

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.33 / 84
p0 −769.4 ± 1740
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −281.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

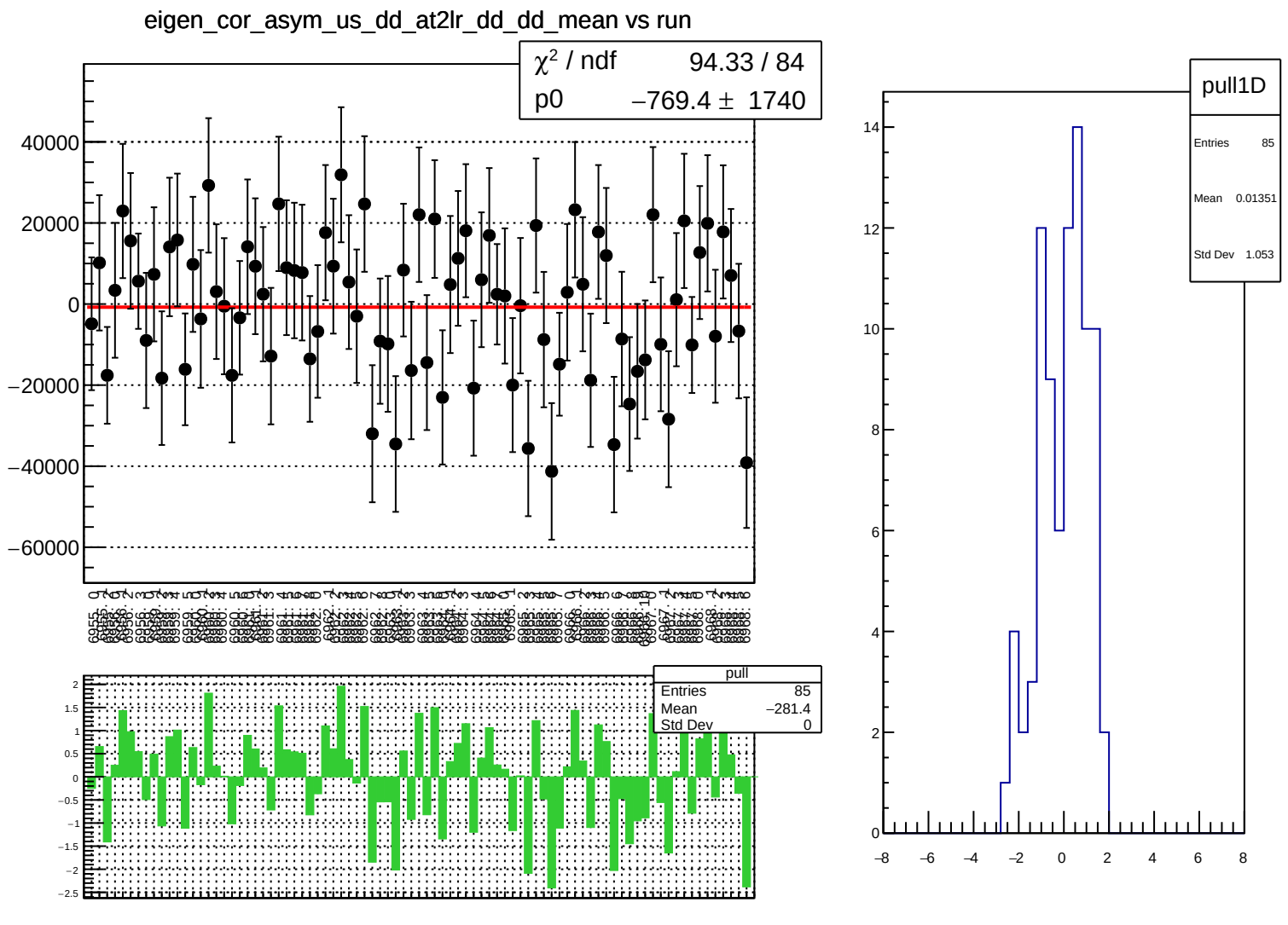

pull1D
Entries 85
Mean 0.01351
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

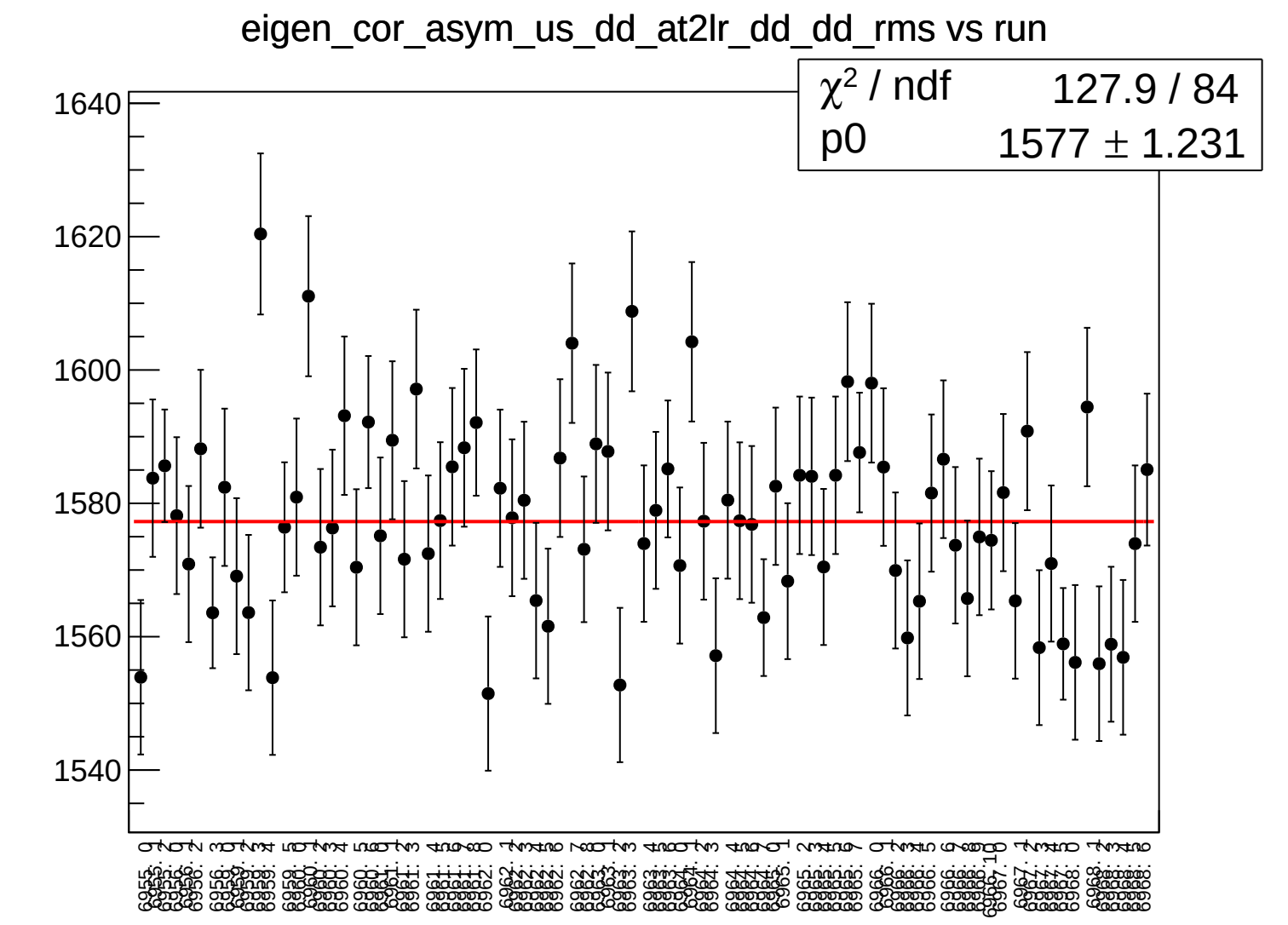

cor_asym_us_dd_at2lr_dd_dd_rms vs run
$\chi^2$ / ndf 127.9 / 84
p0 1577 ± 1.231
1640
1620
1600
1580
1560
1540

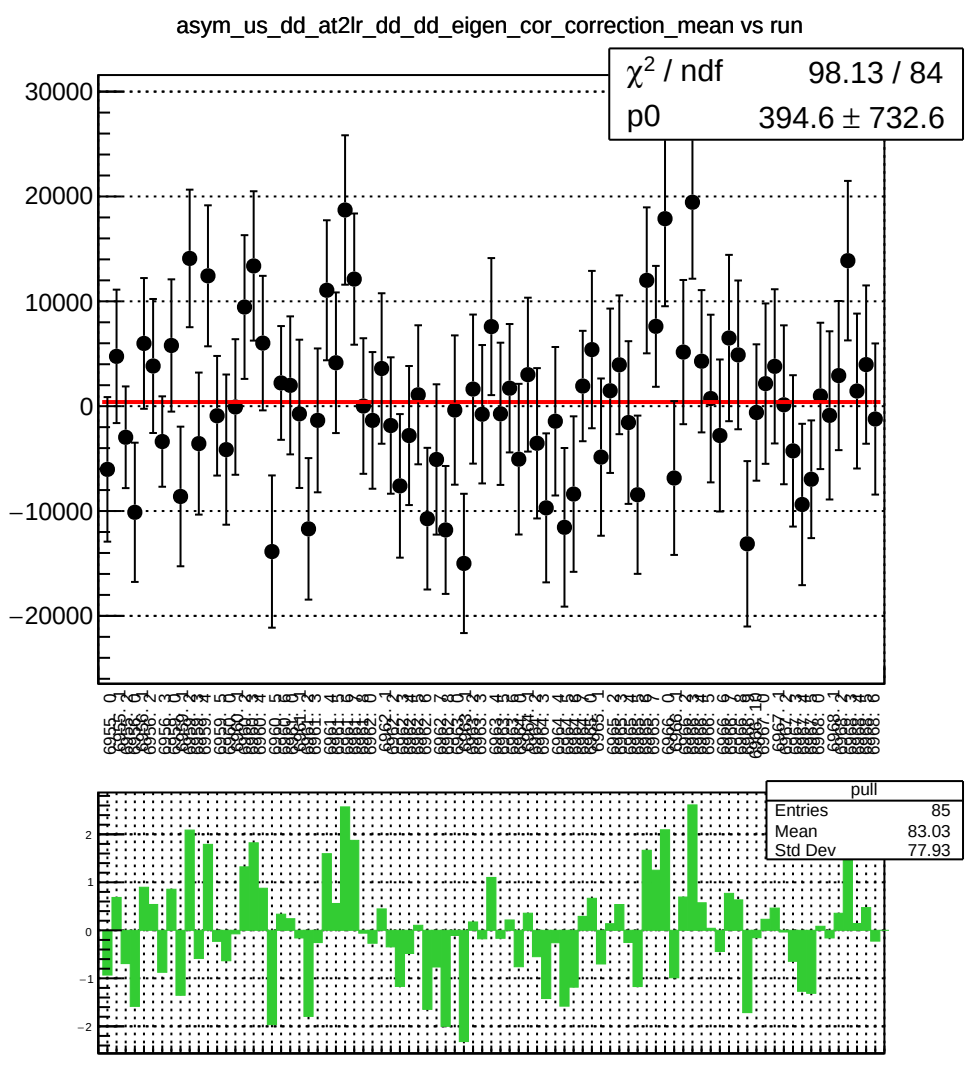

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 98.13 / 84
p0 394.6 ± 732.6
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 83.03
Std Dev 77.93
2
1
0
−1
−2

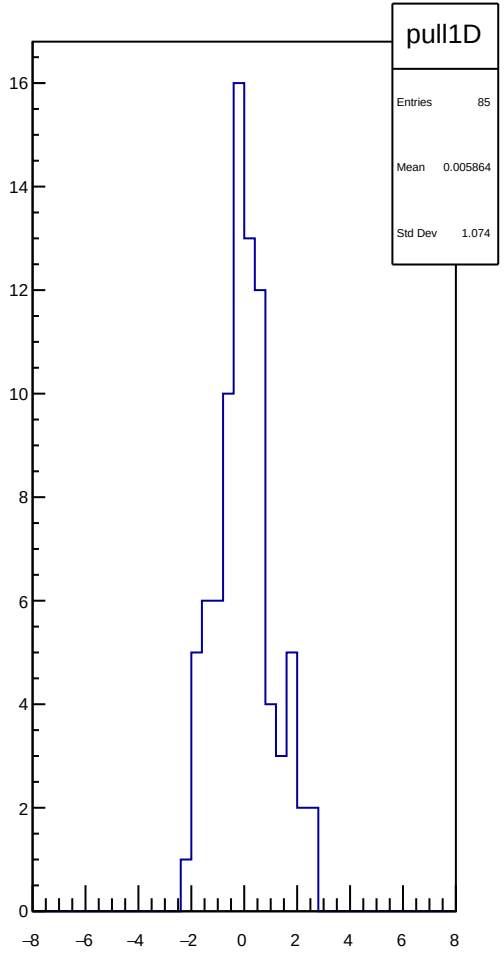

pull1D
Entries 85
Mean 0.005864
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

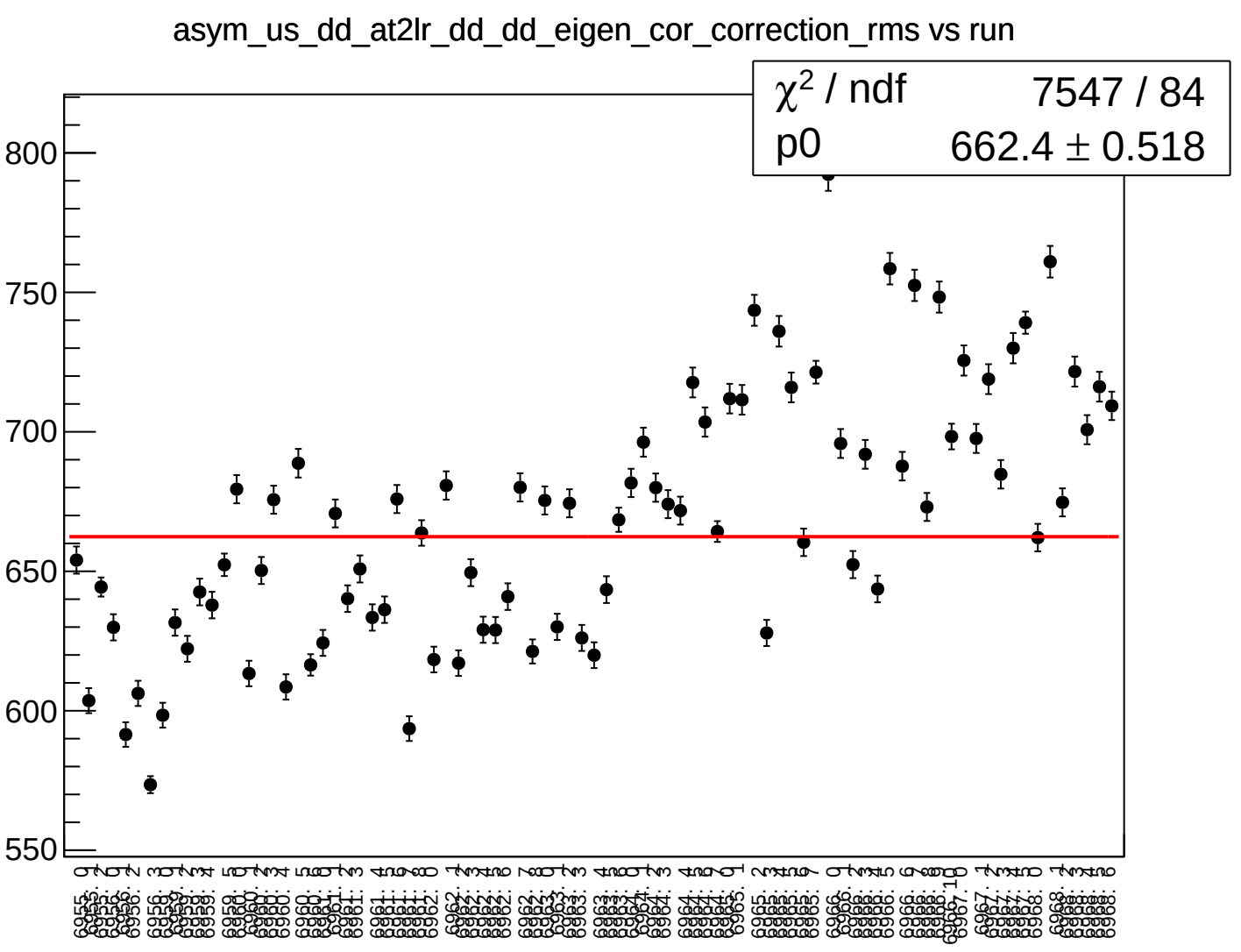

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 7547 / 84
p0 662.4 ± 0.518
800
750
700
650
600
550

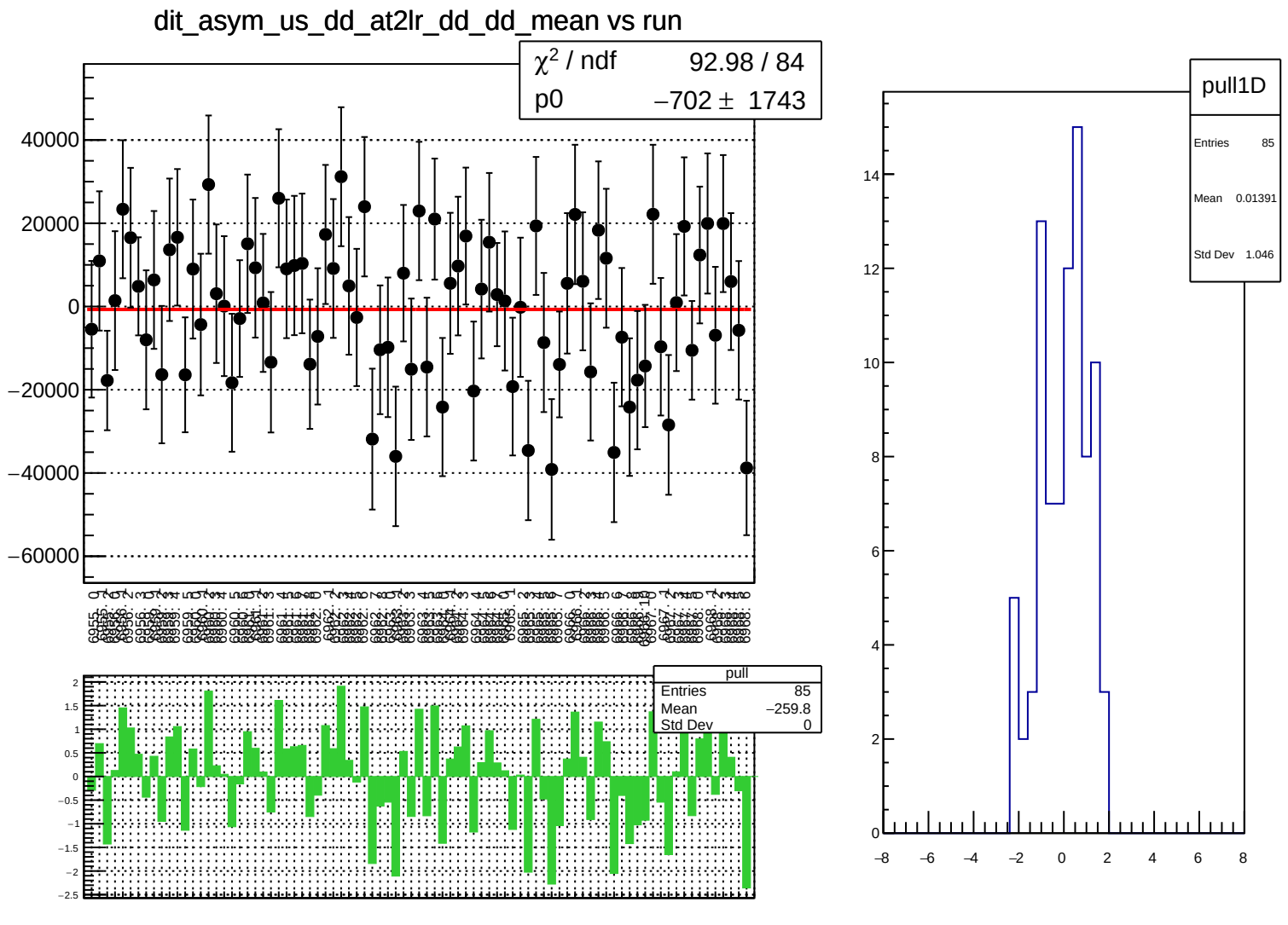

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.33 / 84
p0 −769.4 ± 1740
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −281.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean 0.01351
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

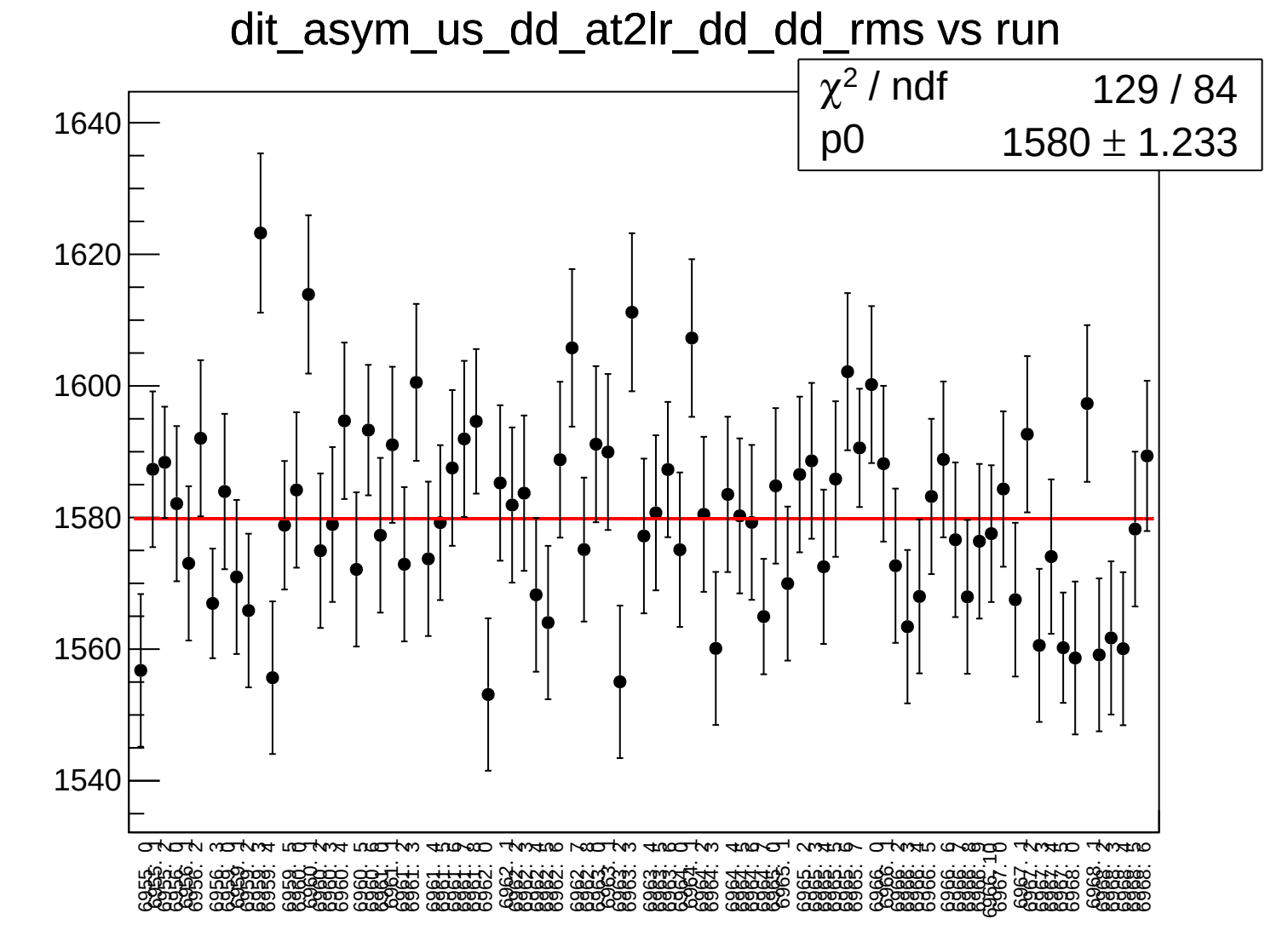

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 127.9 / 84
p0 1577 ± 1.231
1640
1620
1600
1580
1560
1540

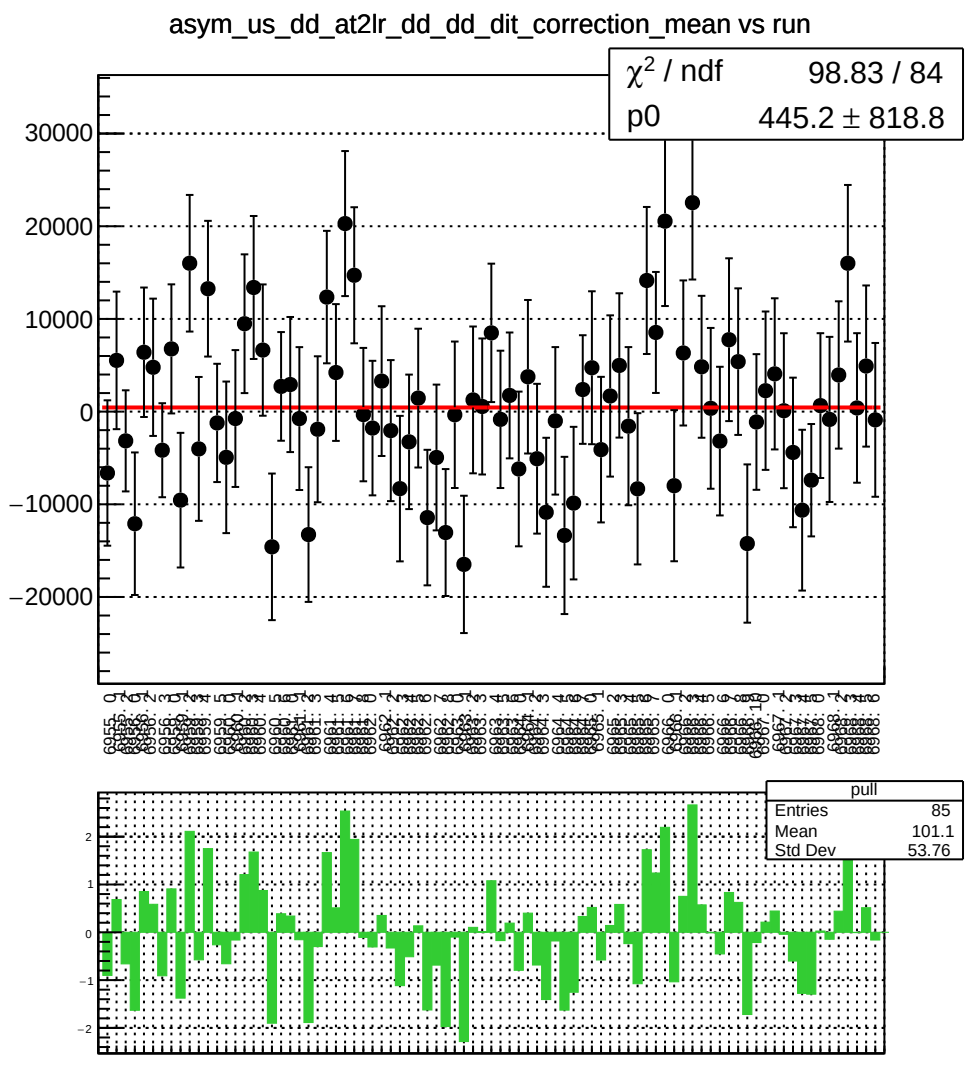

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.13 / 84
p0 394.6 ± 732.6
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 83.03
Std Dev 77.93
2
1
0
−1
−2

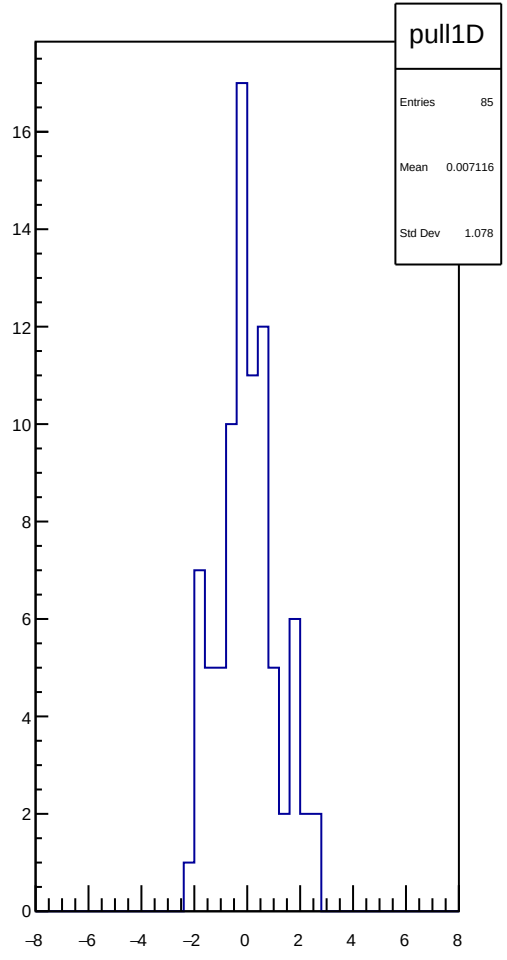

pull1D
Entries 85
Mean 0.005864
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

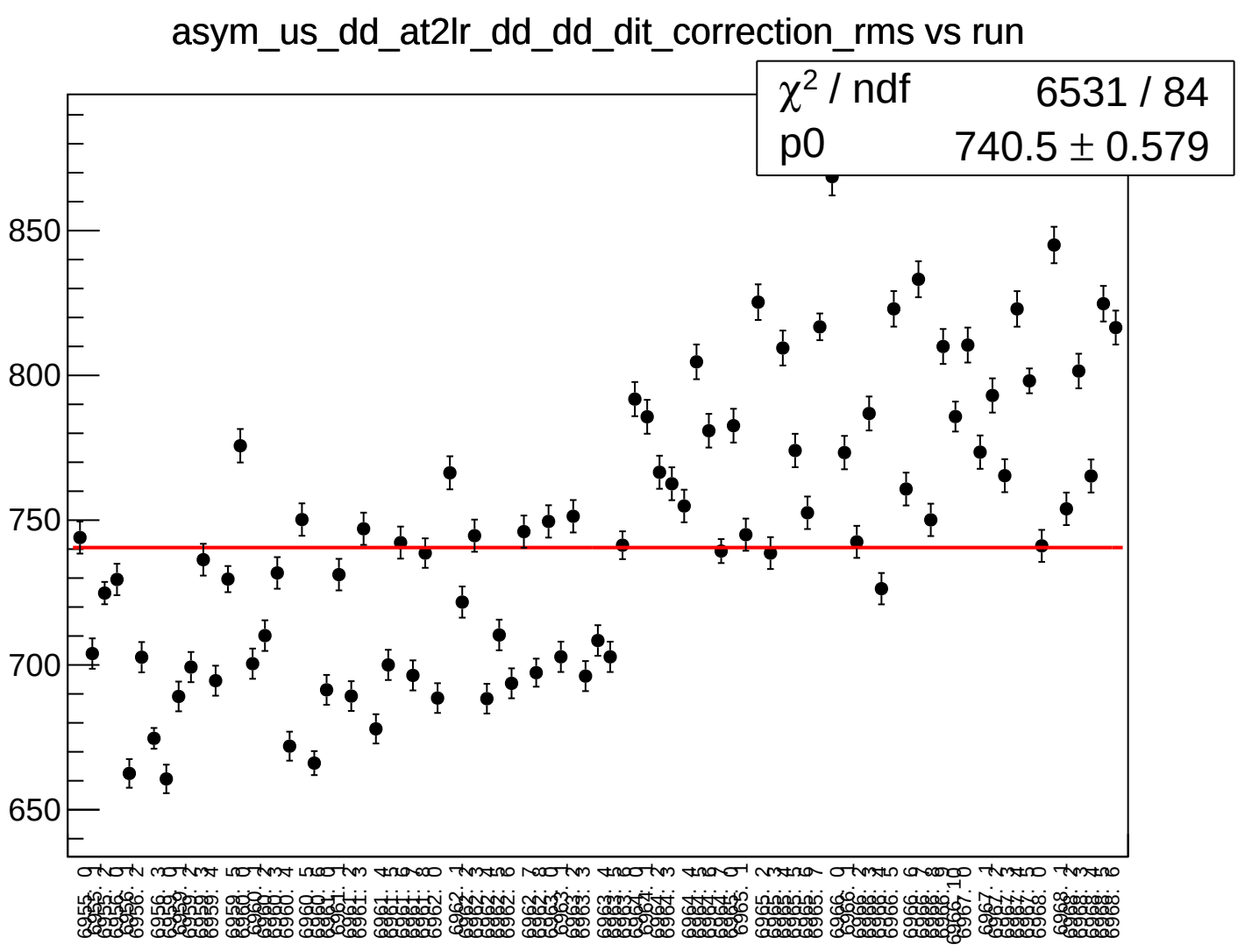

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7547 / 84
p0 662.4 ± 0.518
800
750
700
650
600
550

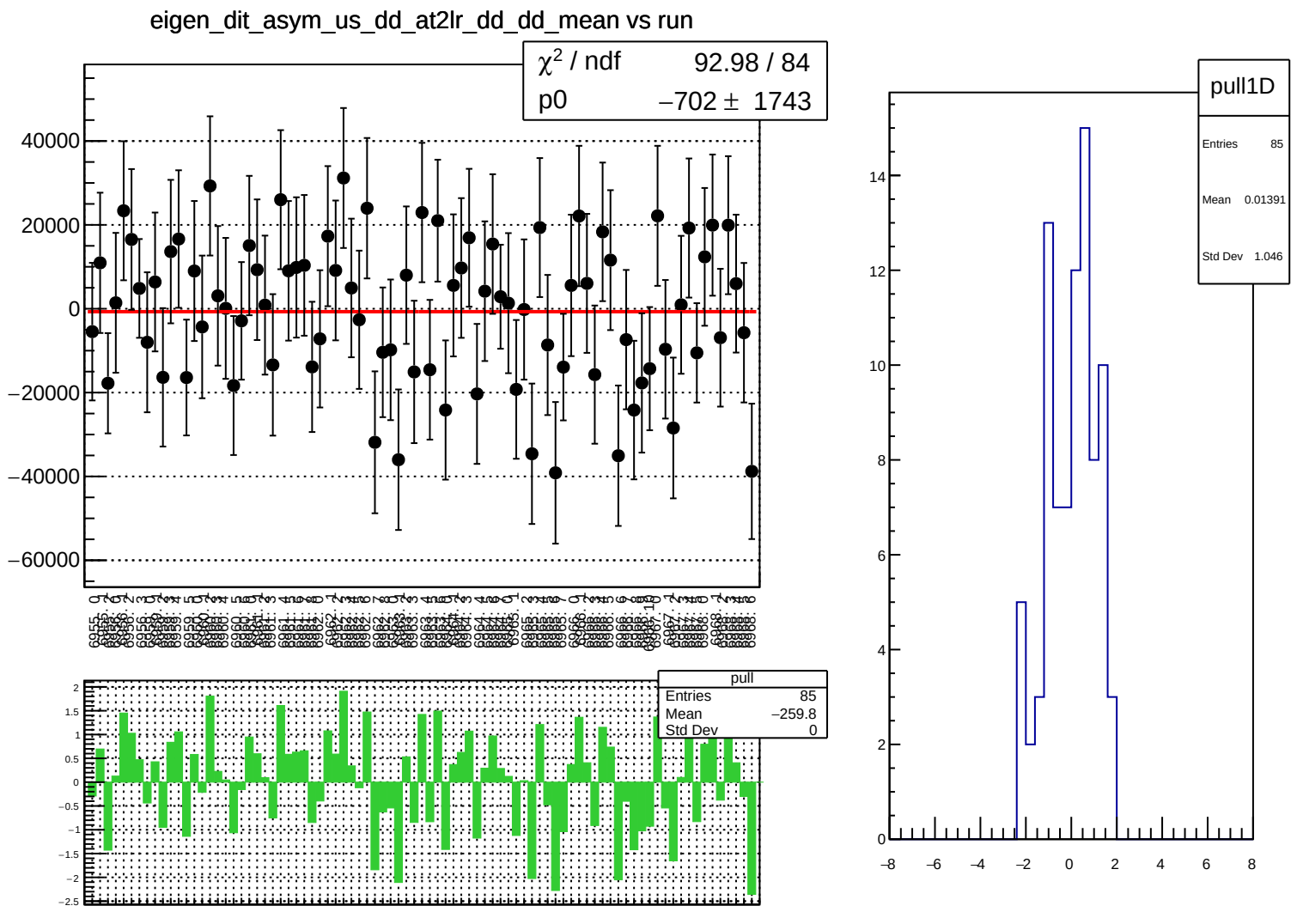

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 92.98 / 84
p0 −702 ± 1743
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −259.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean 0.01391
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

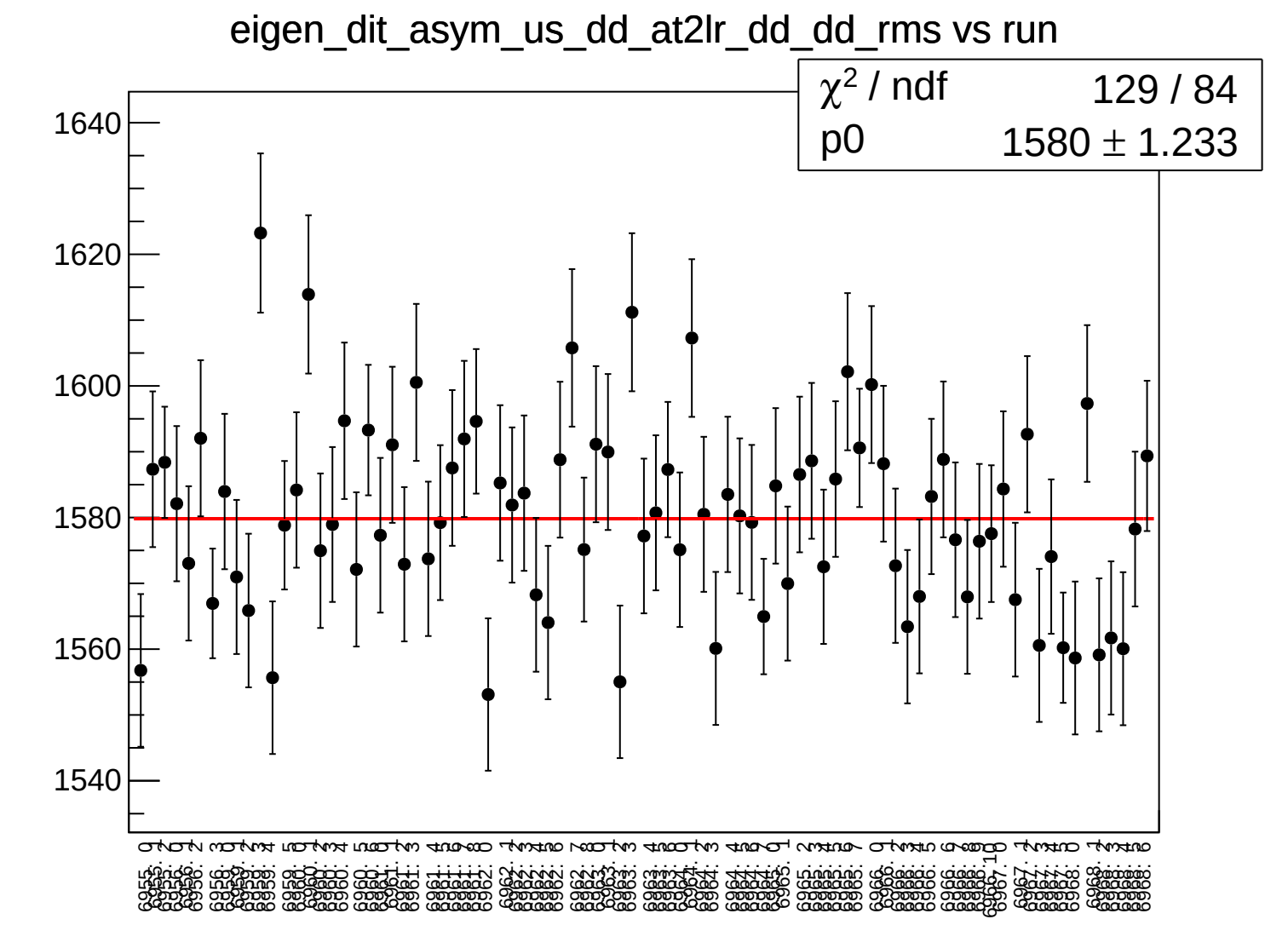

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 129 / 84
p0 1580 ± 1.233
1640
1620
1600
1580
1560
1540

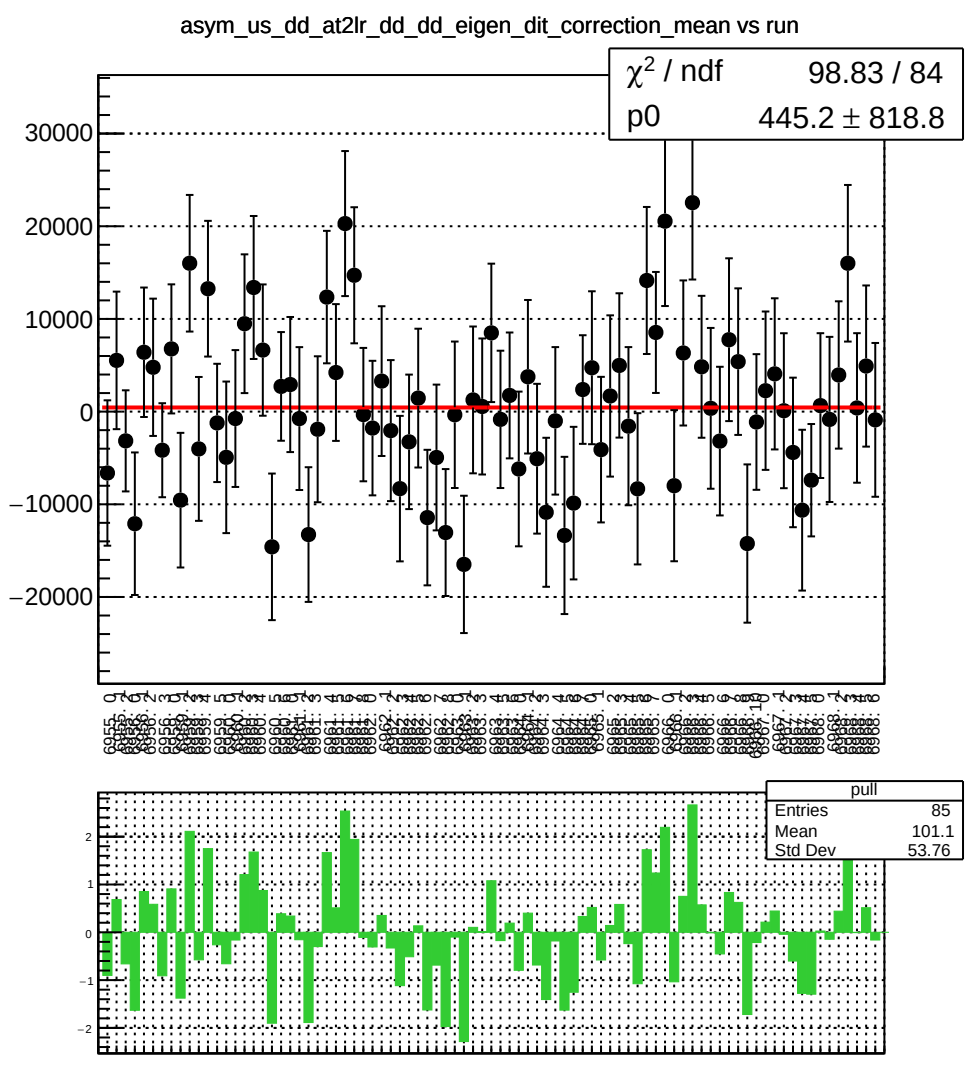

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 98.83 / 84
p0 445.2 ± 818.8
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 101.1
Std Dev 53.76
2
1
0
−1
−2

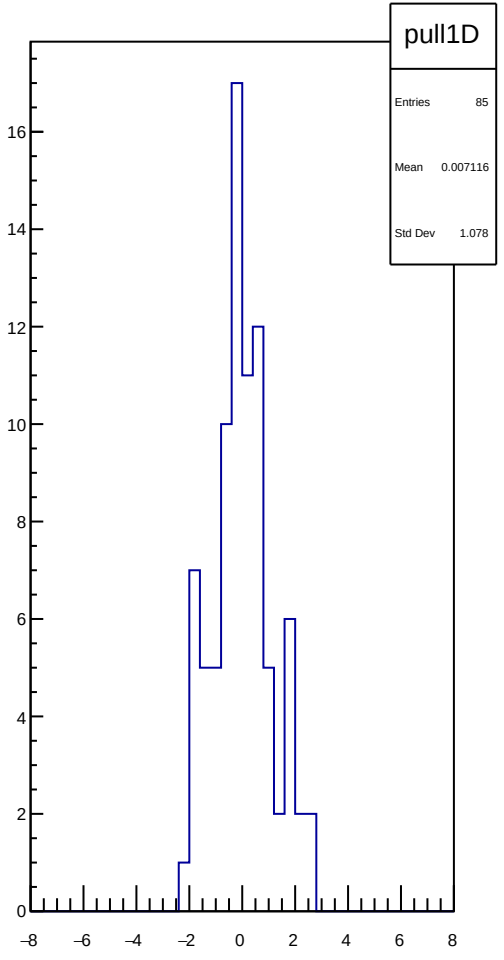

pull1D
Entries 85
Mean 0.007116
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

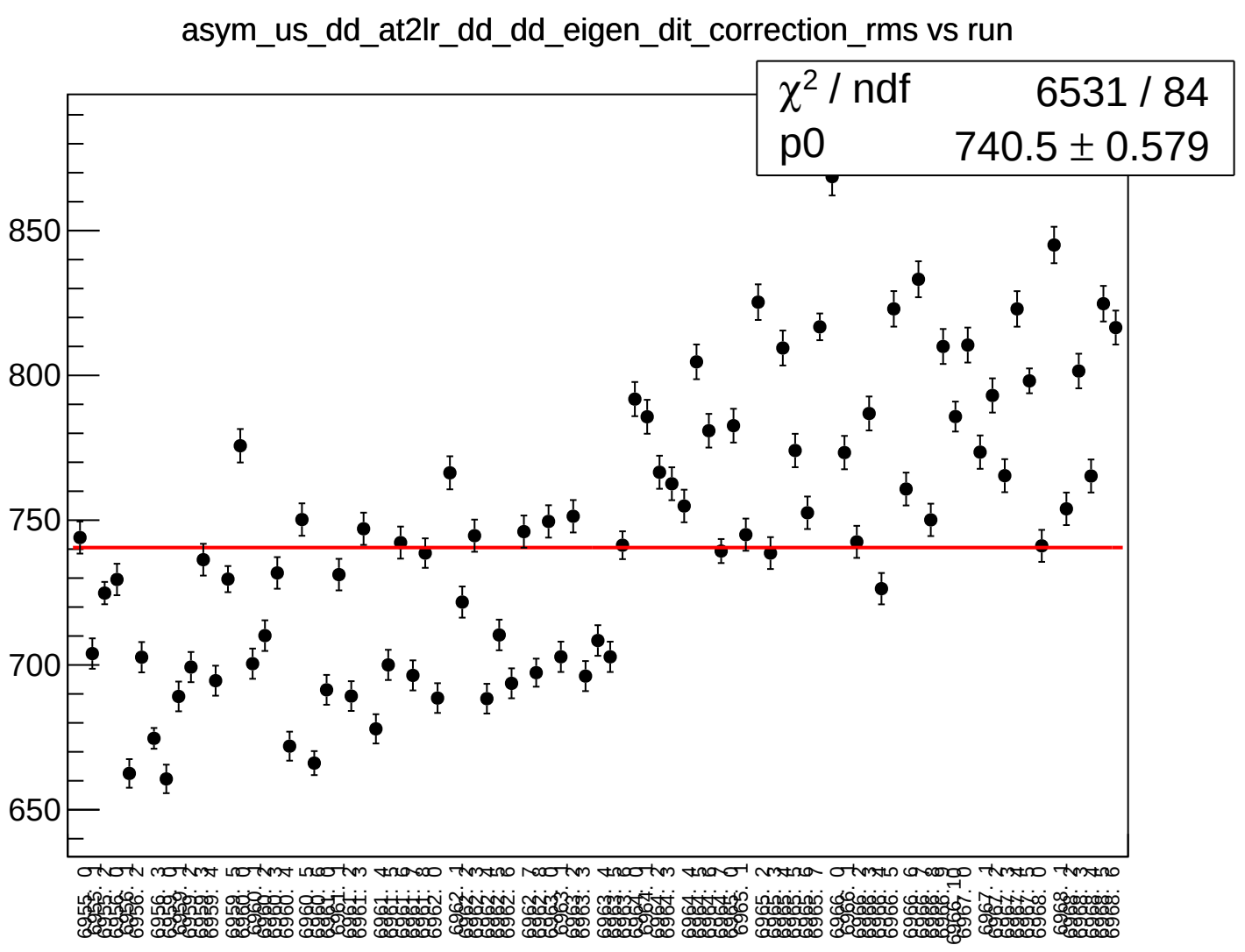

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 6531 / 84
p0 740.5 ± 0.579
850
800
750
700
650

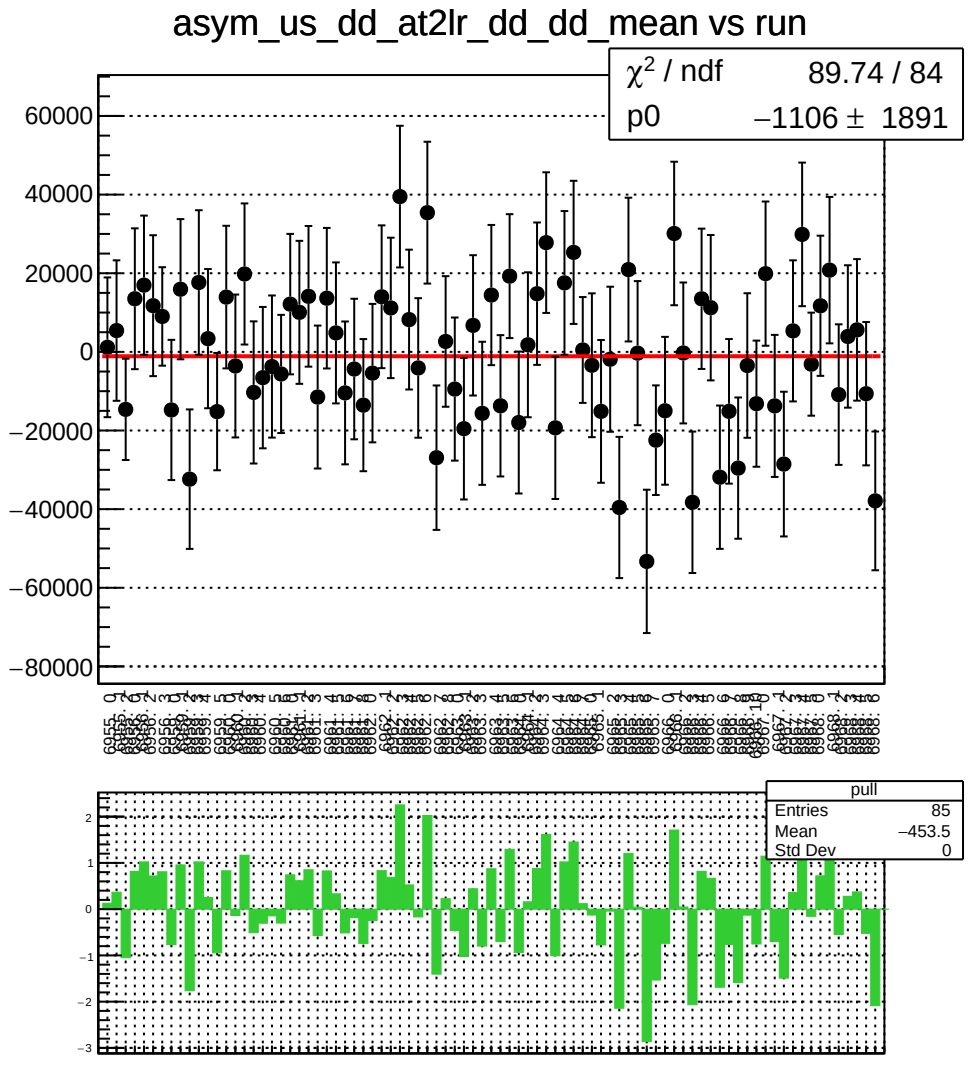

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 92.98 / 84
p0 −702 ± 1743
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −259.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean 0.01391
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

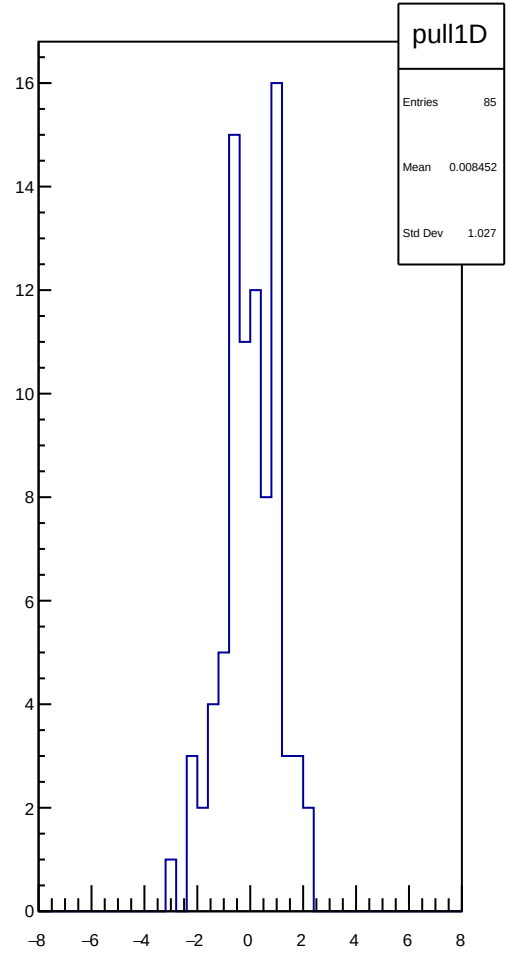

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 129 / 84
p0 1580 ± 1.233
1640
1620
1600
1580
1560
1540

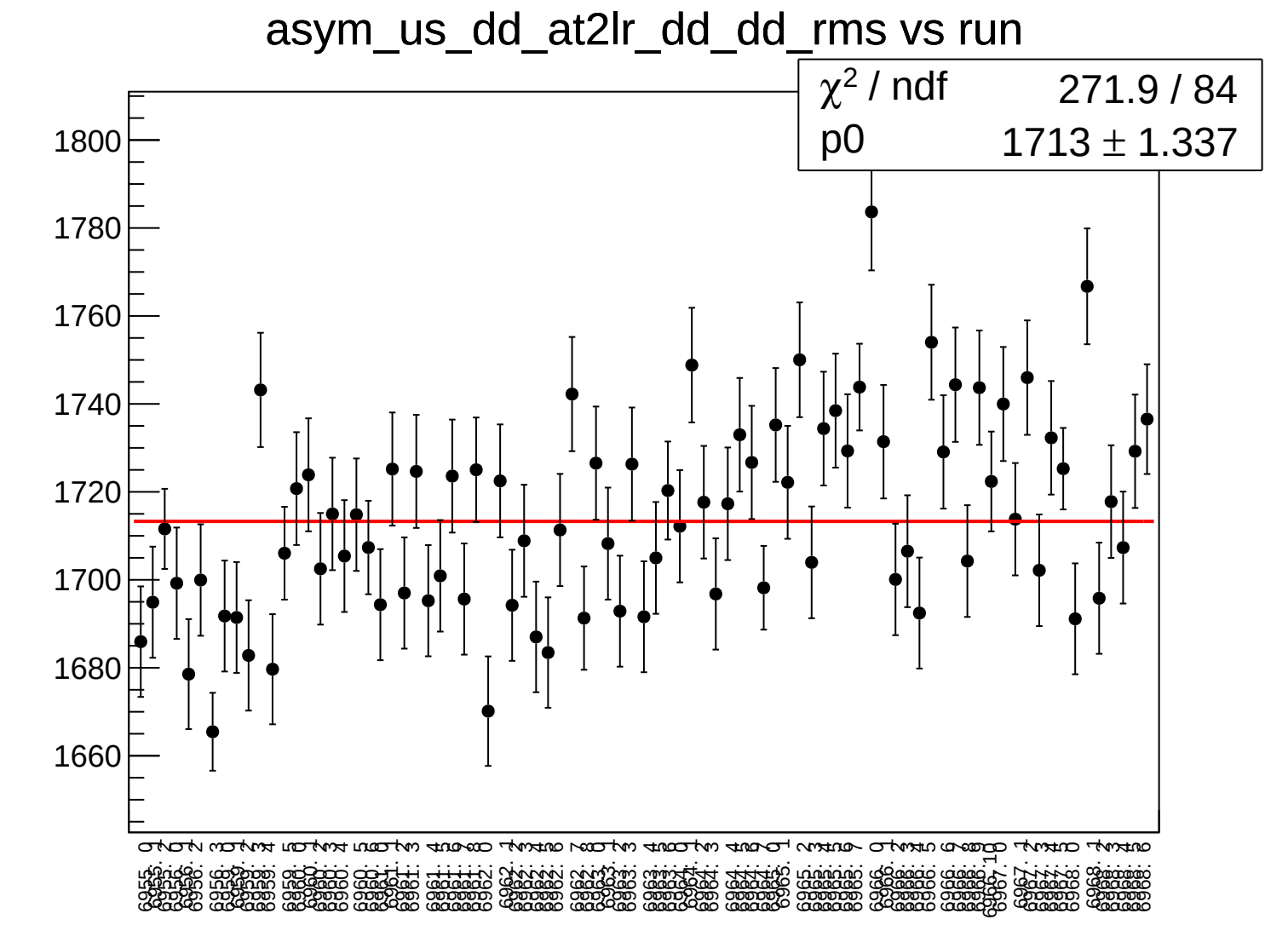

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.83 / 84
p0 445.2 ± 818.8
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 101.1
Std Dev 53.76
2
1
0
−1
−2

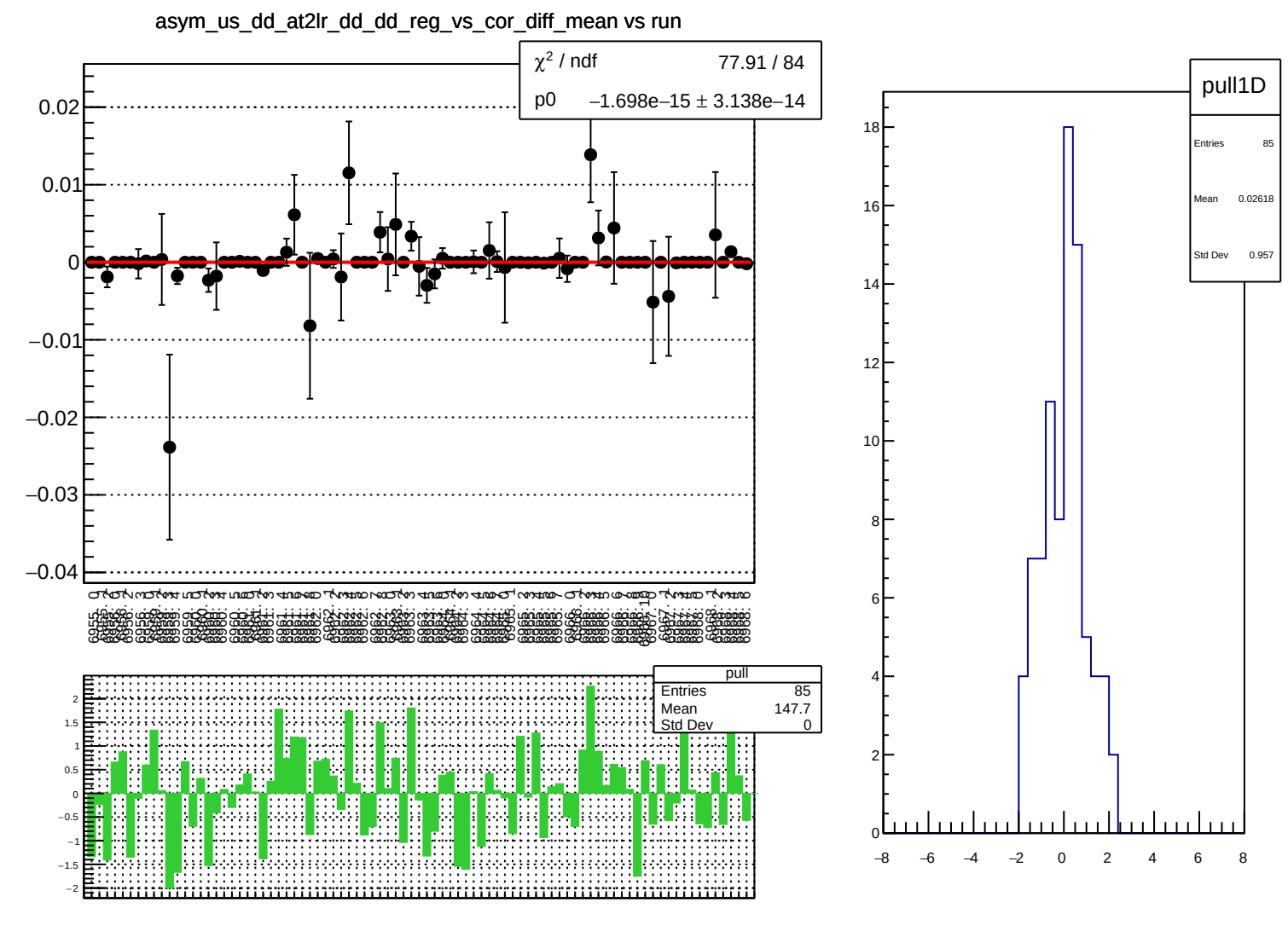

pull1D
Entries 85
Mean 0.007116
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

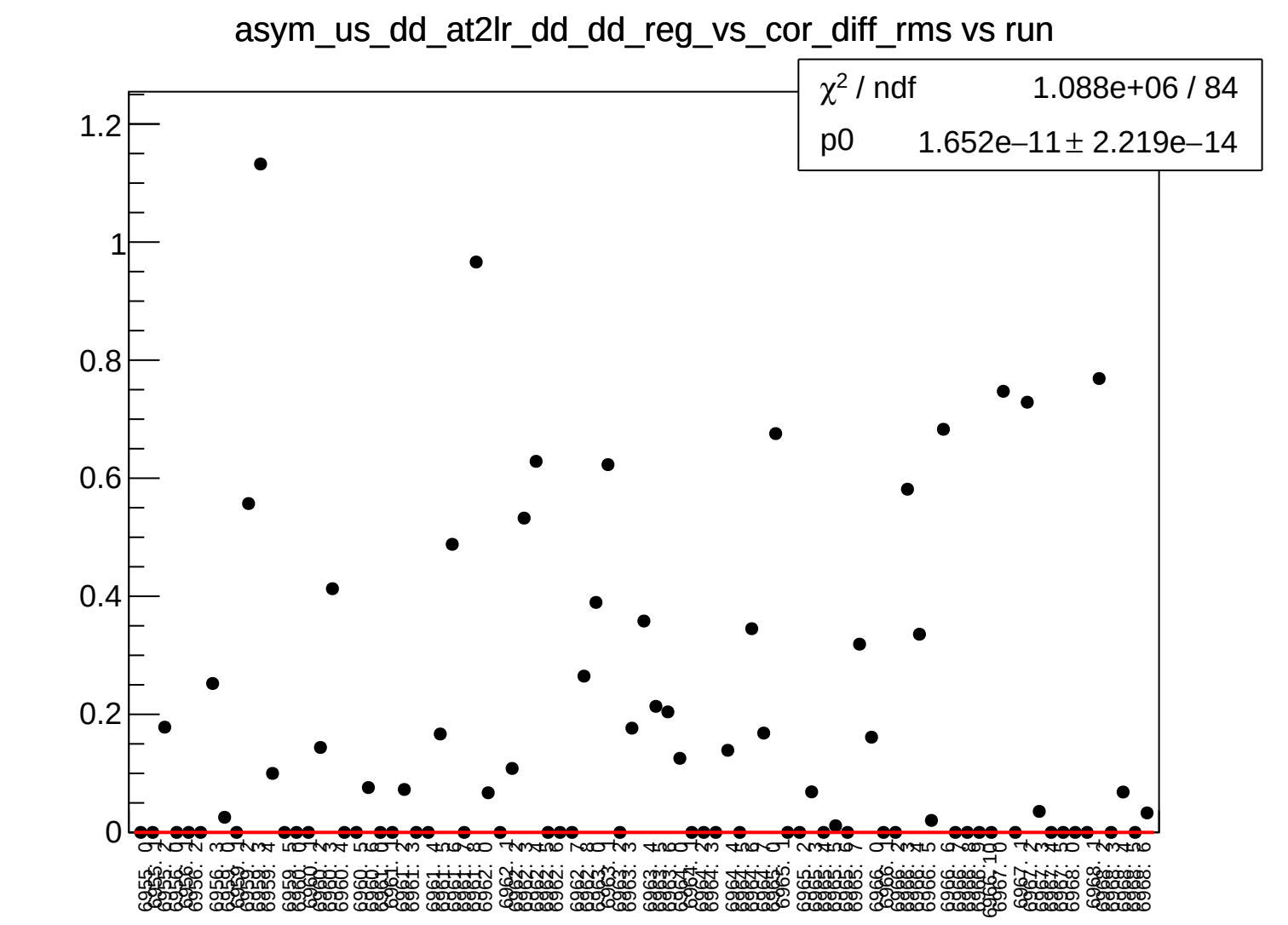

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6531 / 84
p0 740.5 ± 0.579
850
800
750
700
650

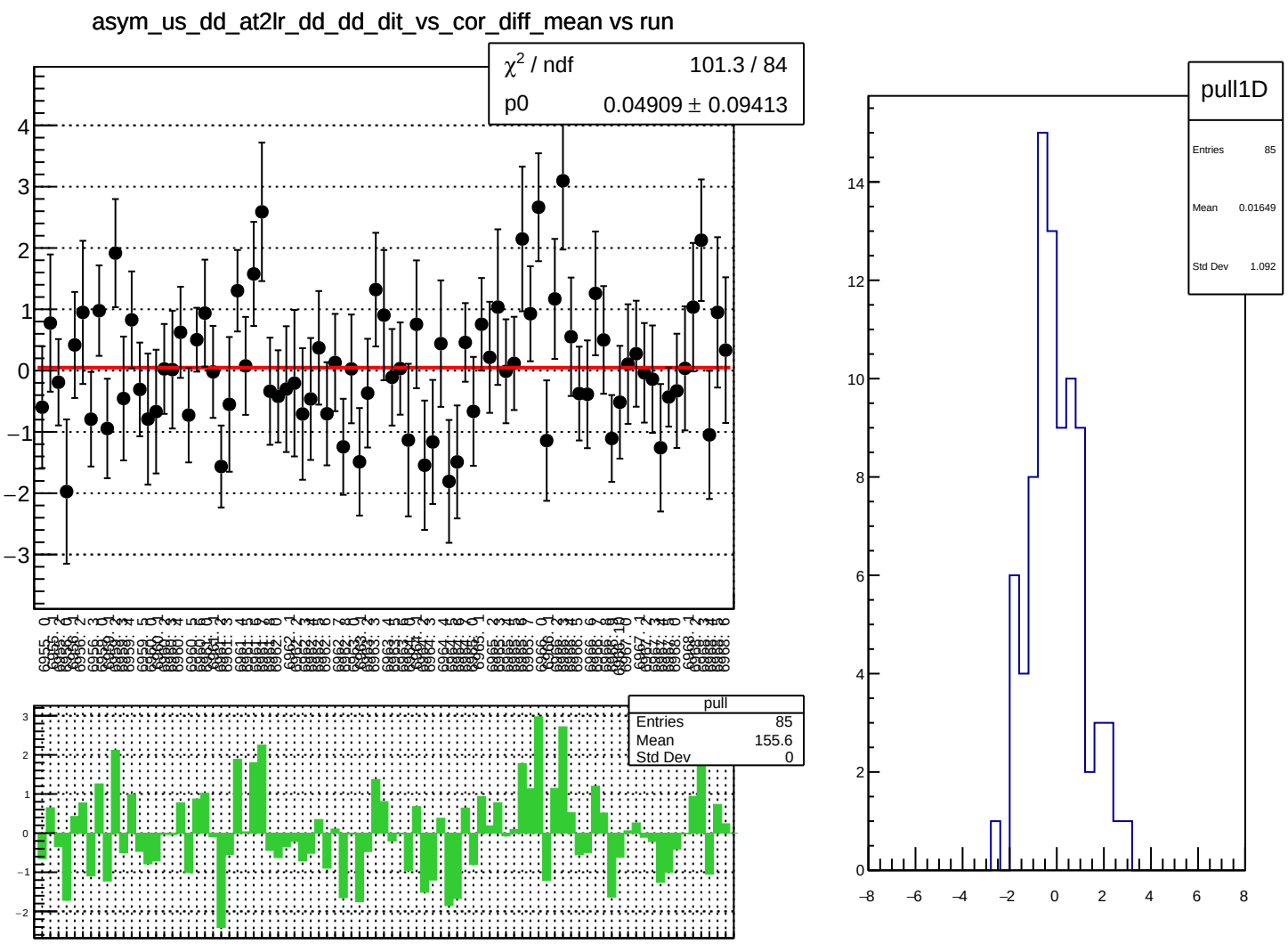

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 89.74 / 84
p0 −1106 ± 1891
pull
Entries 85
Mean −453.5
Std Dev 0

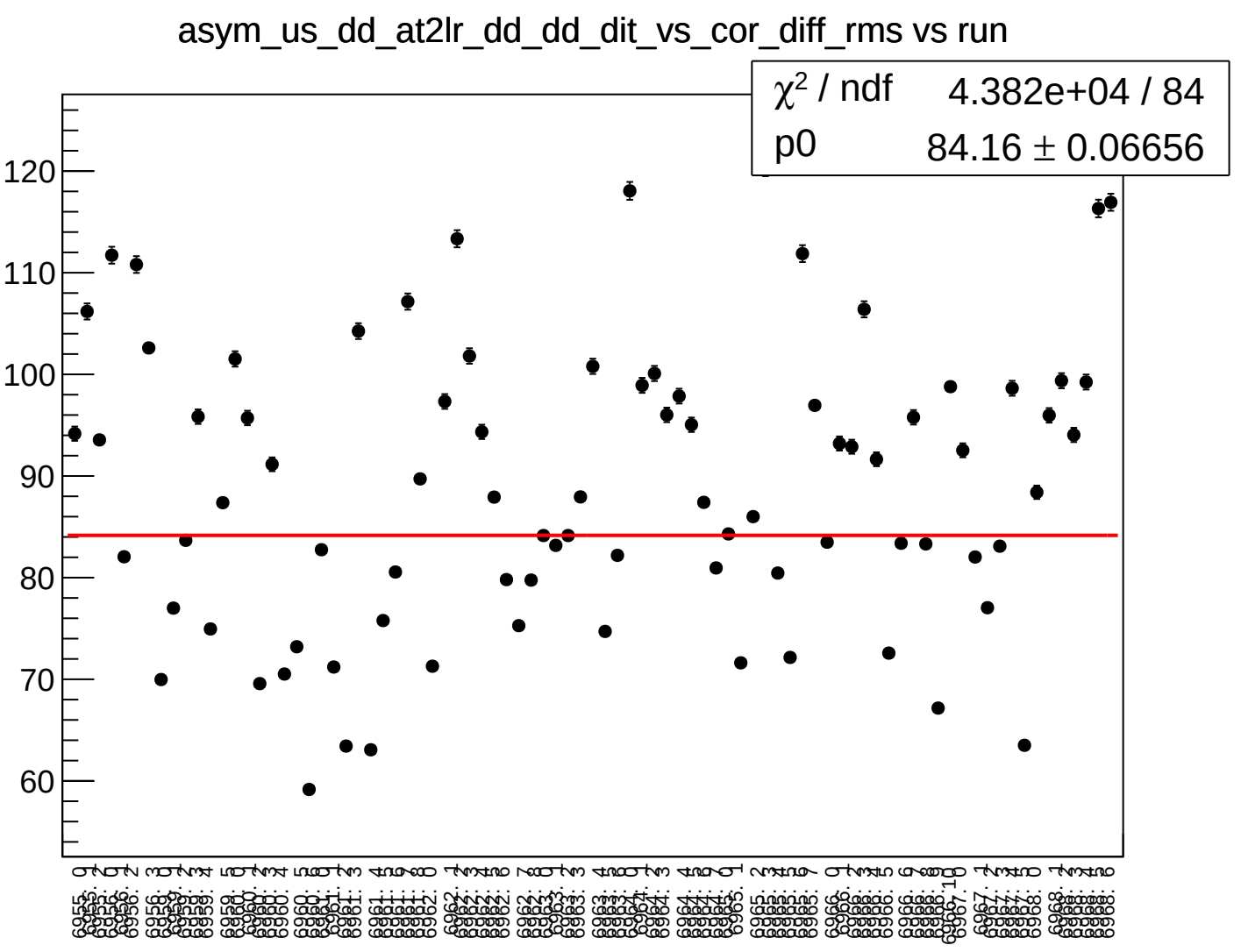

pull1D
Entries 85
Mean 0.008452
Std Dev 1.027

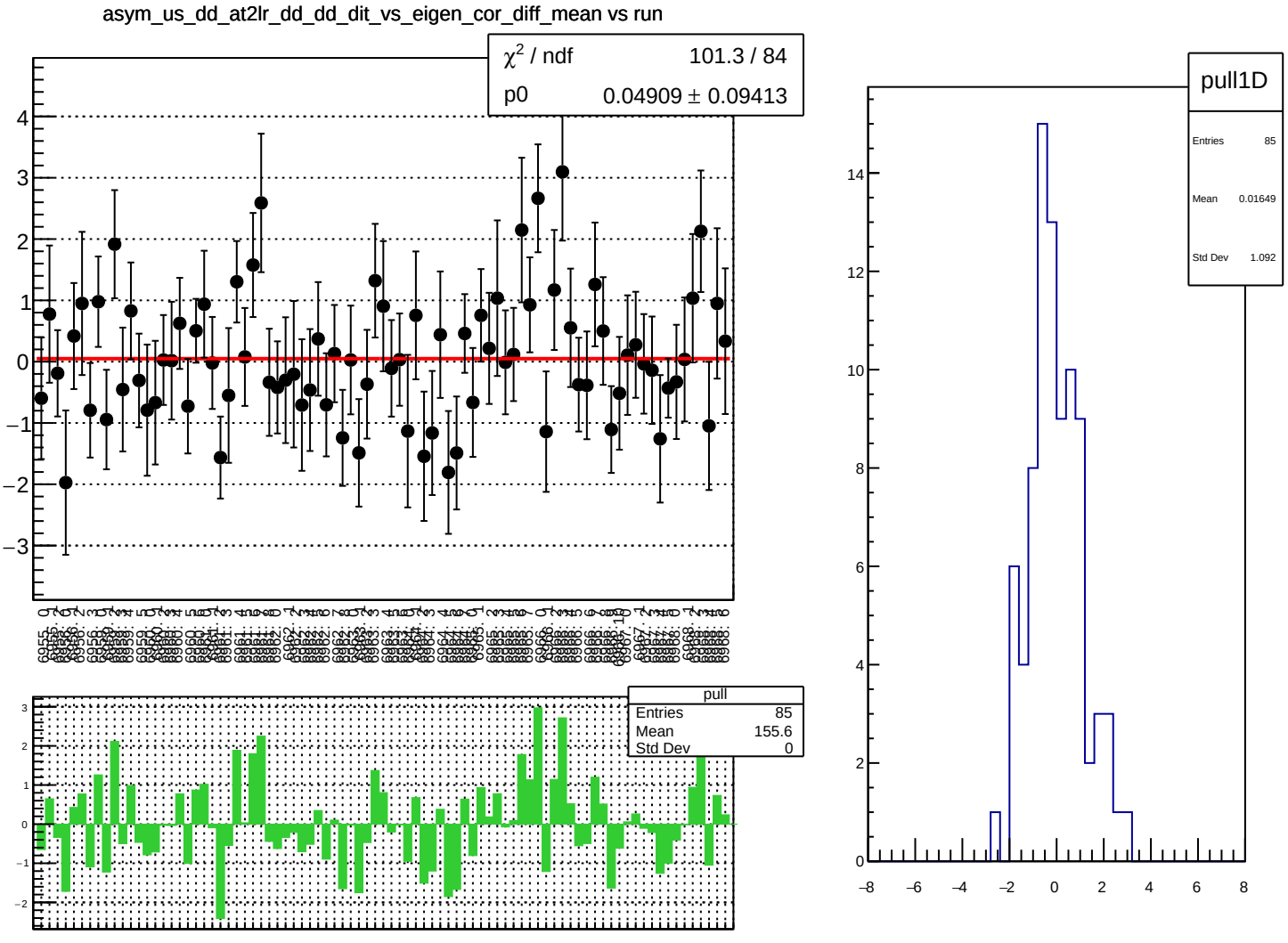

asym_us_dd_at2lr_dd_dd_rms vs run
$\chi^2$ / ndf 271.9 / 84
p0 1713 ± 1.337
1800
1780
1760
1740
1720
1700
1680
1660

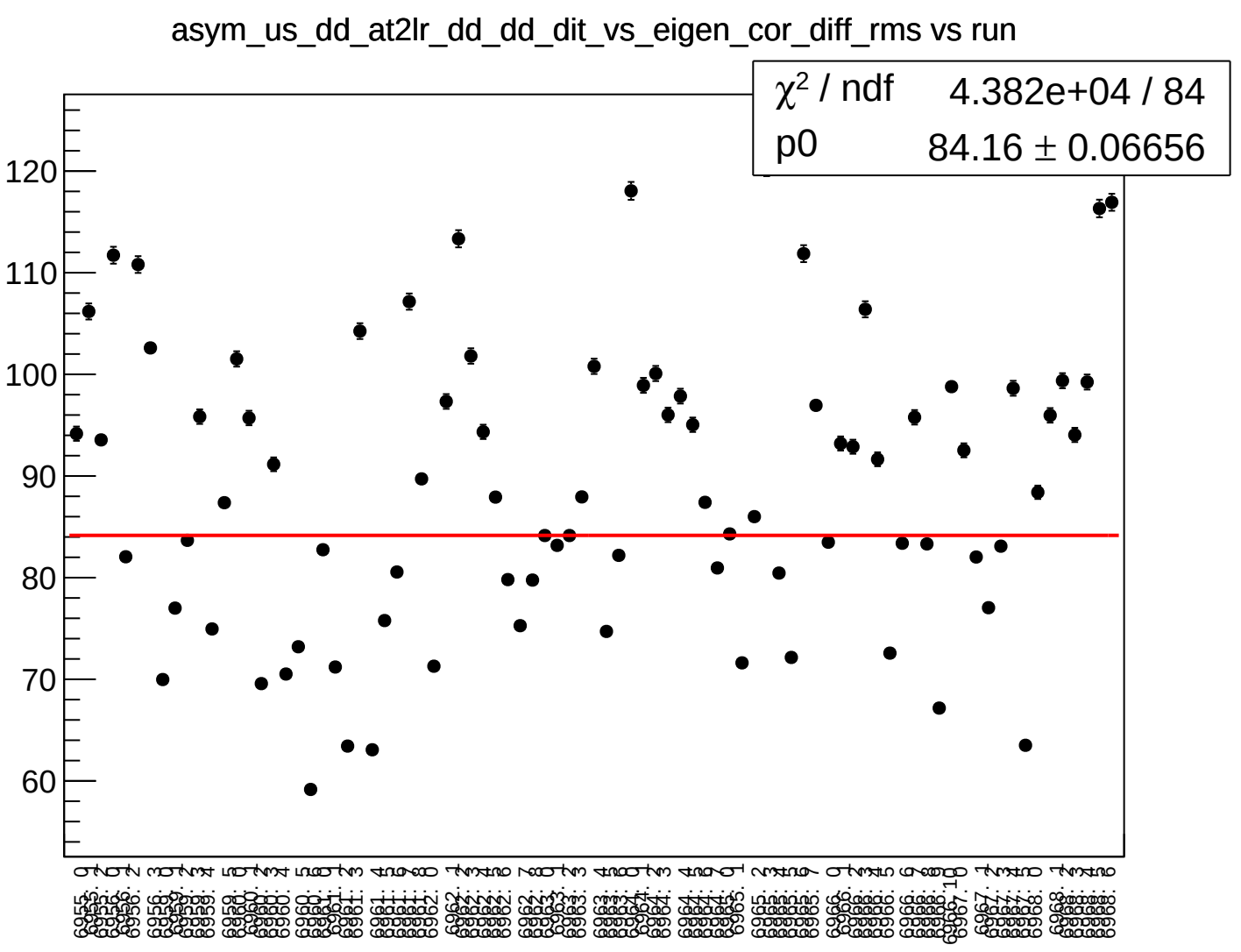

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.91 / 84
p0 −1.698e−15 ± 3.138e−14
pull
Entries 85
Mean 147.7
Std Dev 0
pull1D
Entries 85
Mean 0.02618
Std Dev 0.957

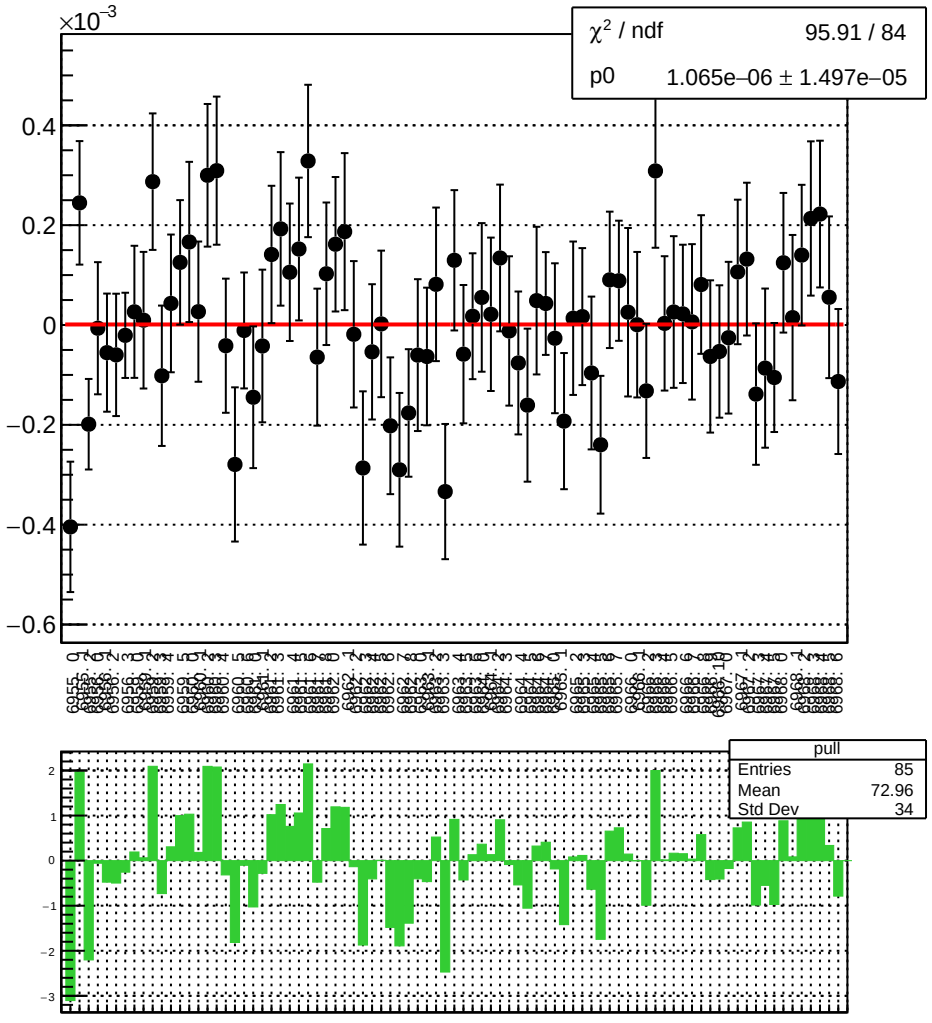

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.088e+06 / 84
p0 1.652e−11 ± 2.219e−14
1.2
1
0.8
0.6
0.4
0.2
0

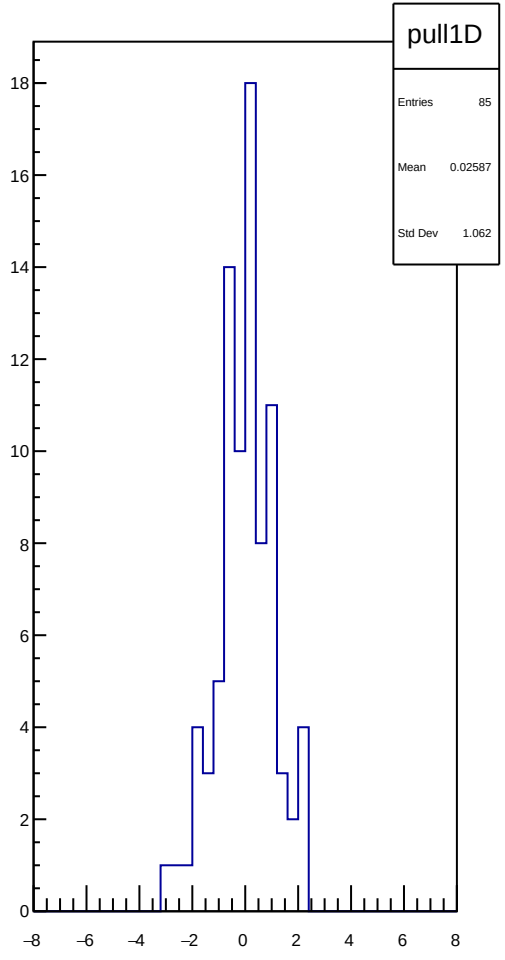

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 84
p0 0.04909 ± 0.09413
pull
Entries 85
Mean 155.6
Std Dev 0
pull1D
Entries 85
Mean 0.01649
Std Dev 1.092

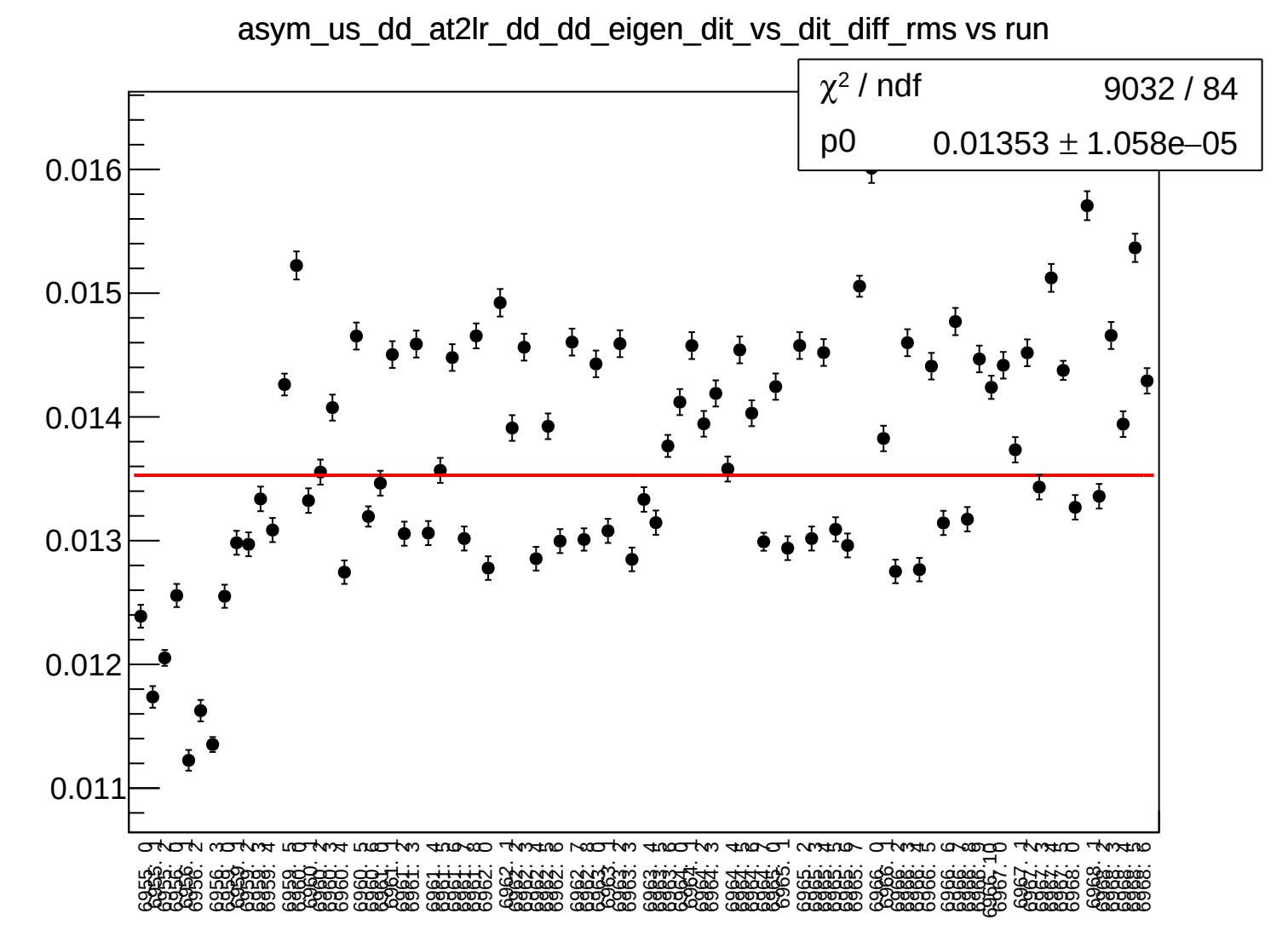

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.382e+04 / 84
p0 84.16 ± 0.06656
120
110
100
90
80
70
60

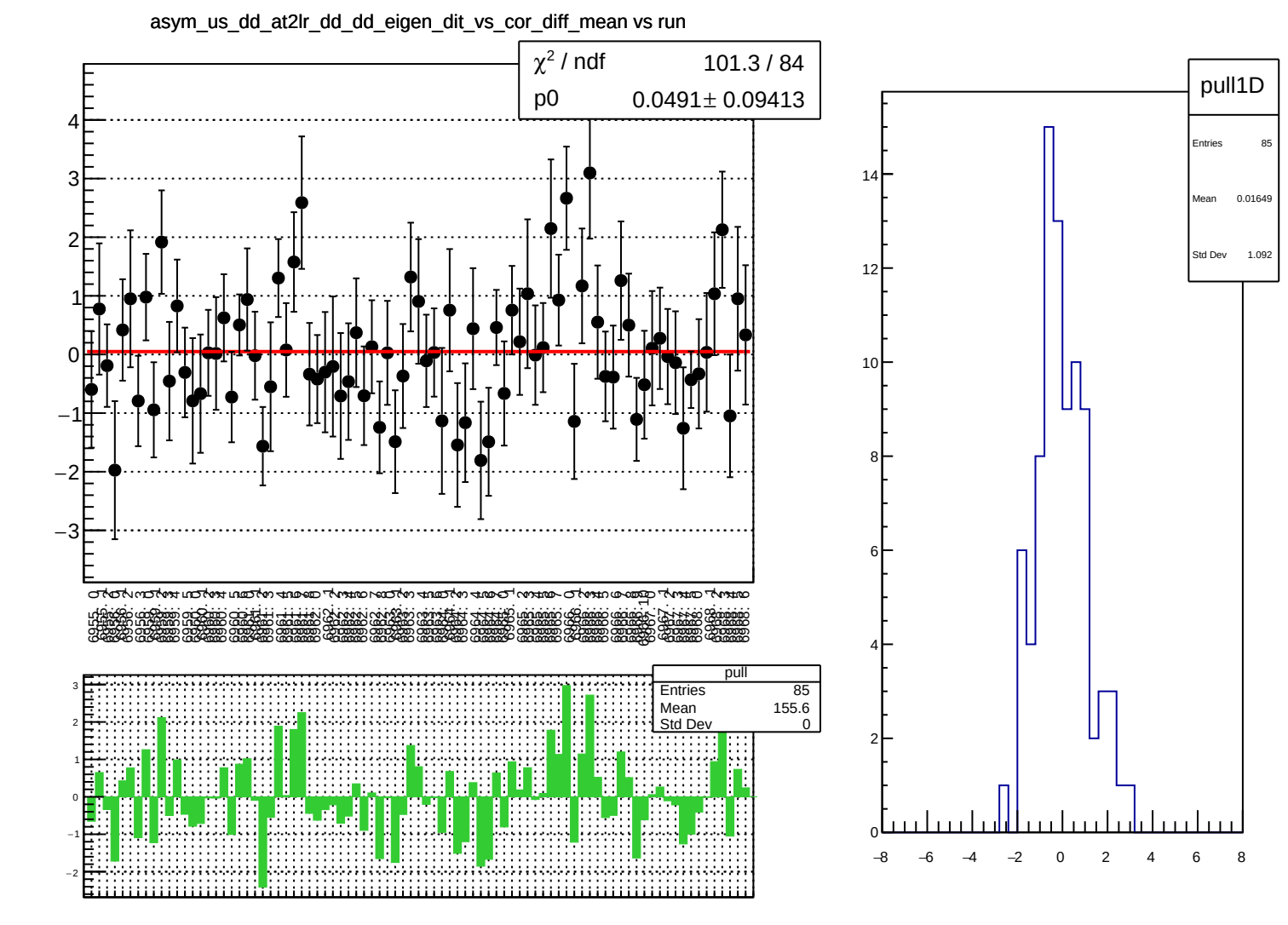

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 84
p0 0.04909 ± 0.09413
pull
Entries 85
Mean 155.6
Std Dev 0
pull1D
Entries 85
Mean 0.01649
Std Dev 1.092

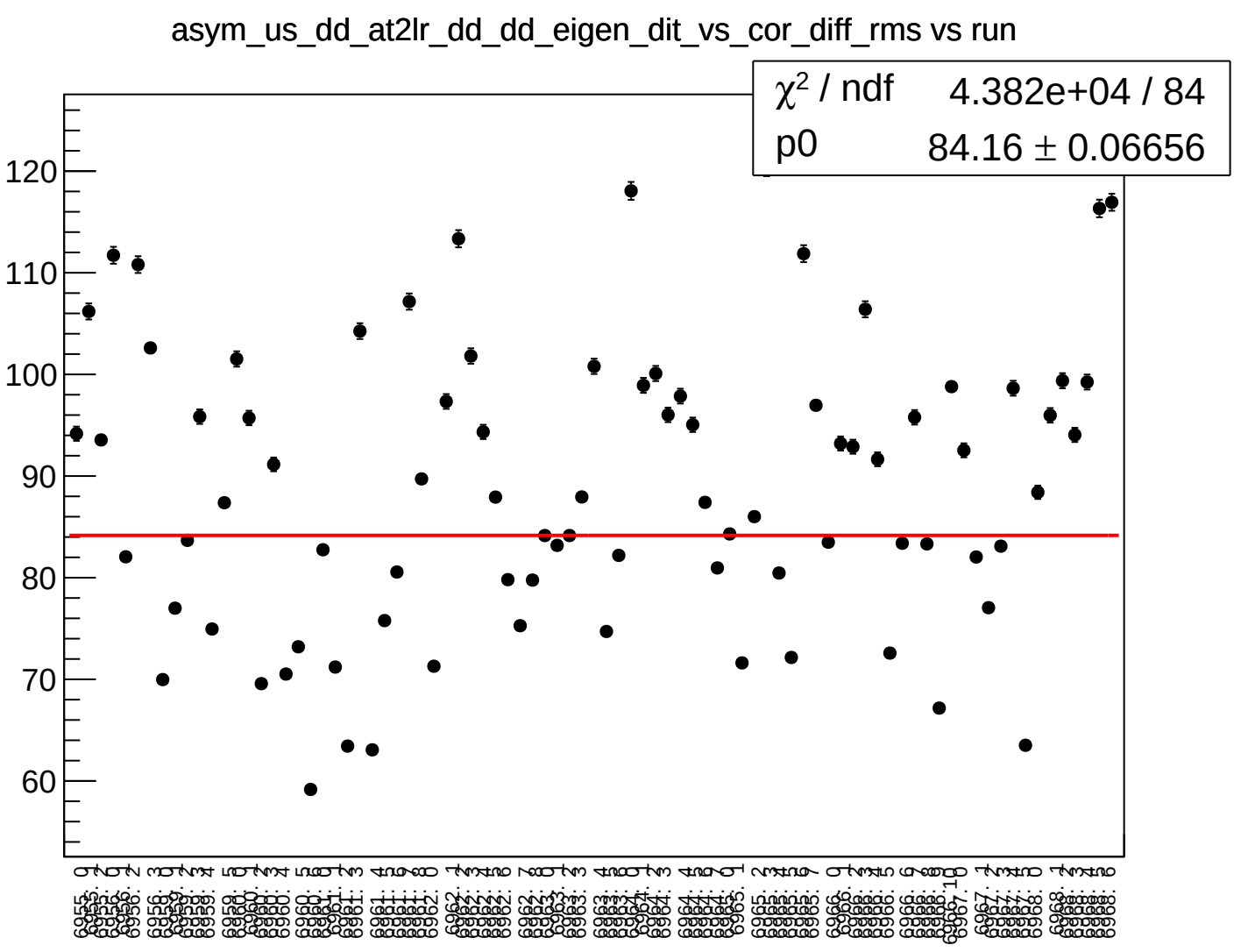

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.382e+04 / 84
p0 84.16 ± 0.06656
120
110
100
90
80
70
60

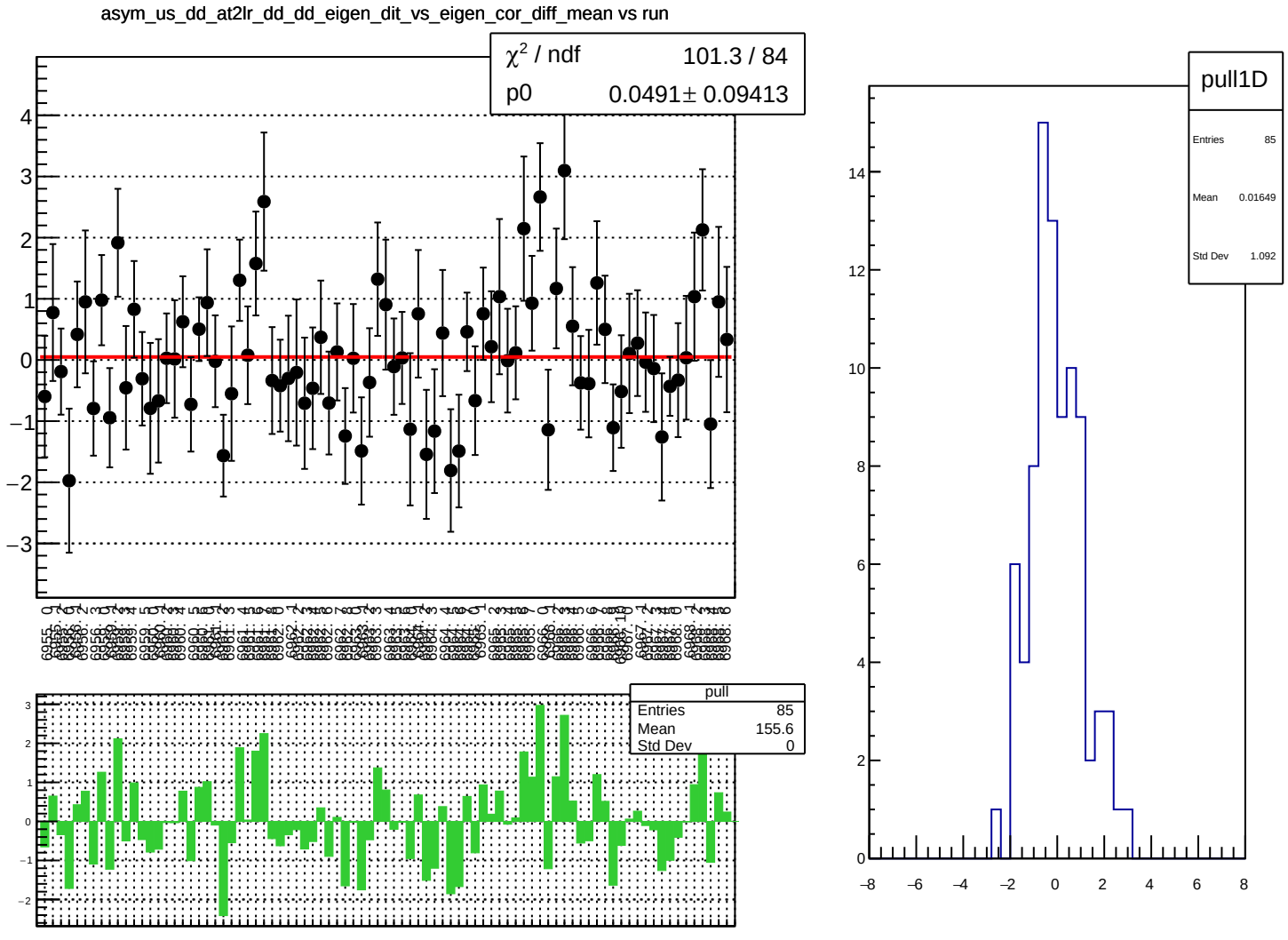

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.91 / 84
p0 1.065e−06 ± 1.497e−05
pull
Entries 85
Mean 72.96
Std Dev 34

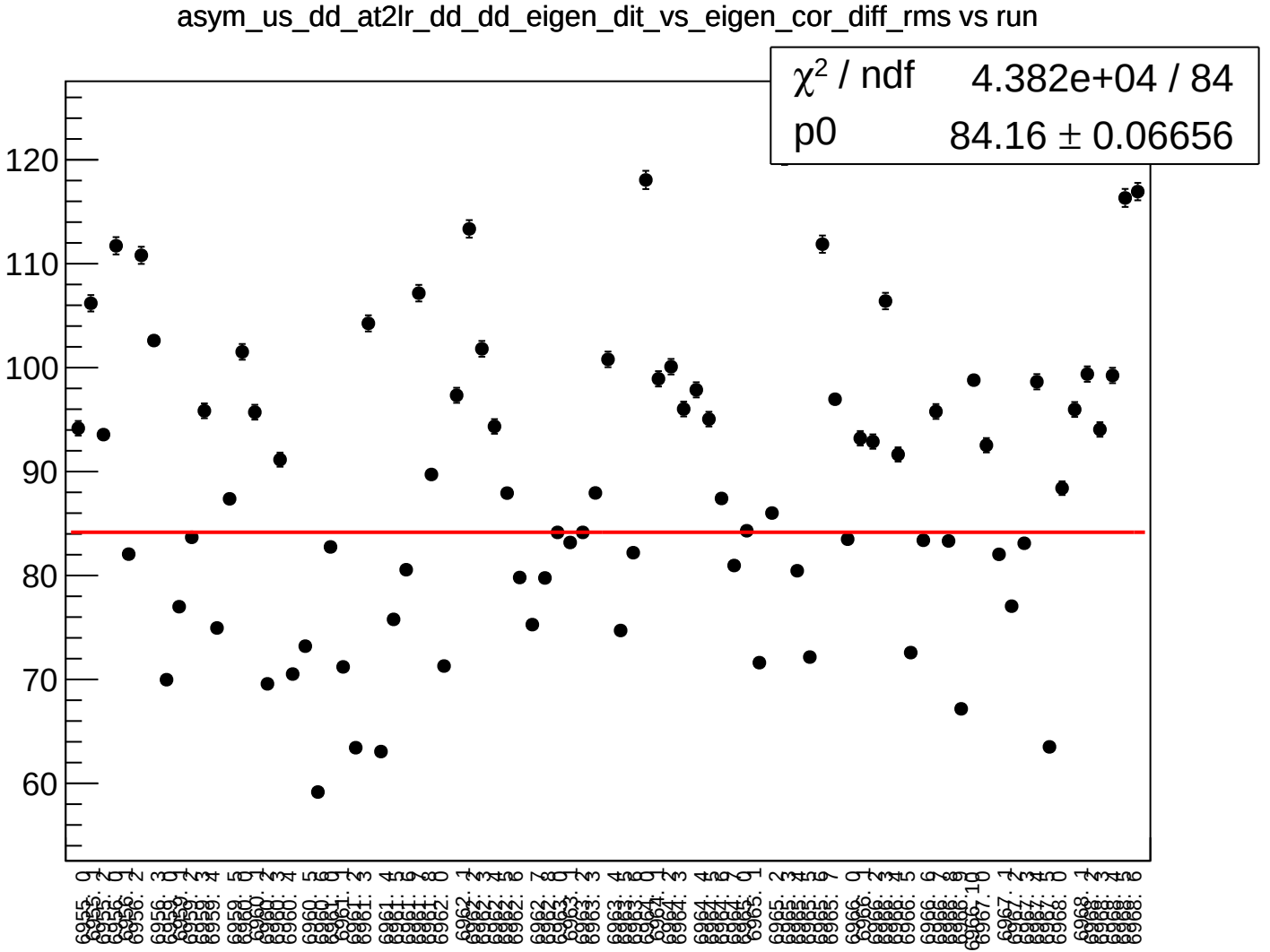

pull1D
Entries 85
Mean 0.02587
Std Dev 1.062

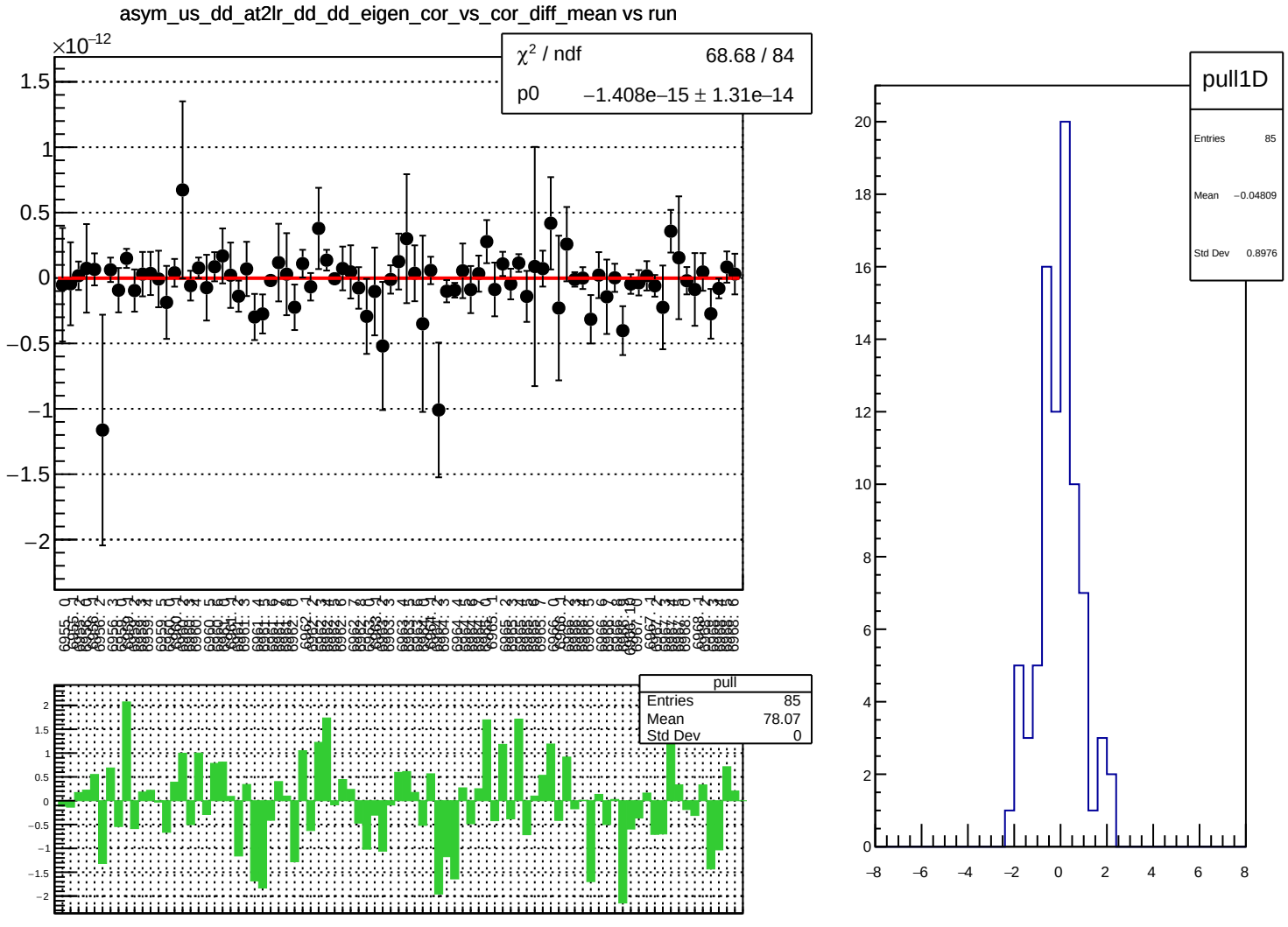

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9032 / 84
p0 0.01353 ± 1.058e−05
0.016
0.015
0.014
0.013
0.012
0.011

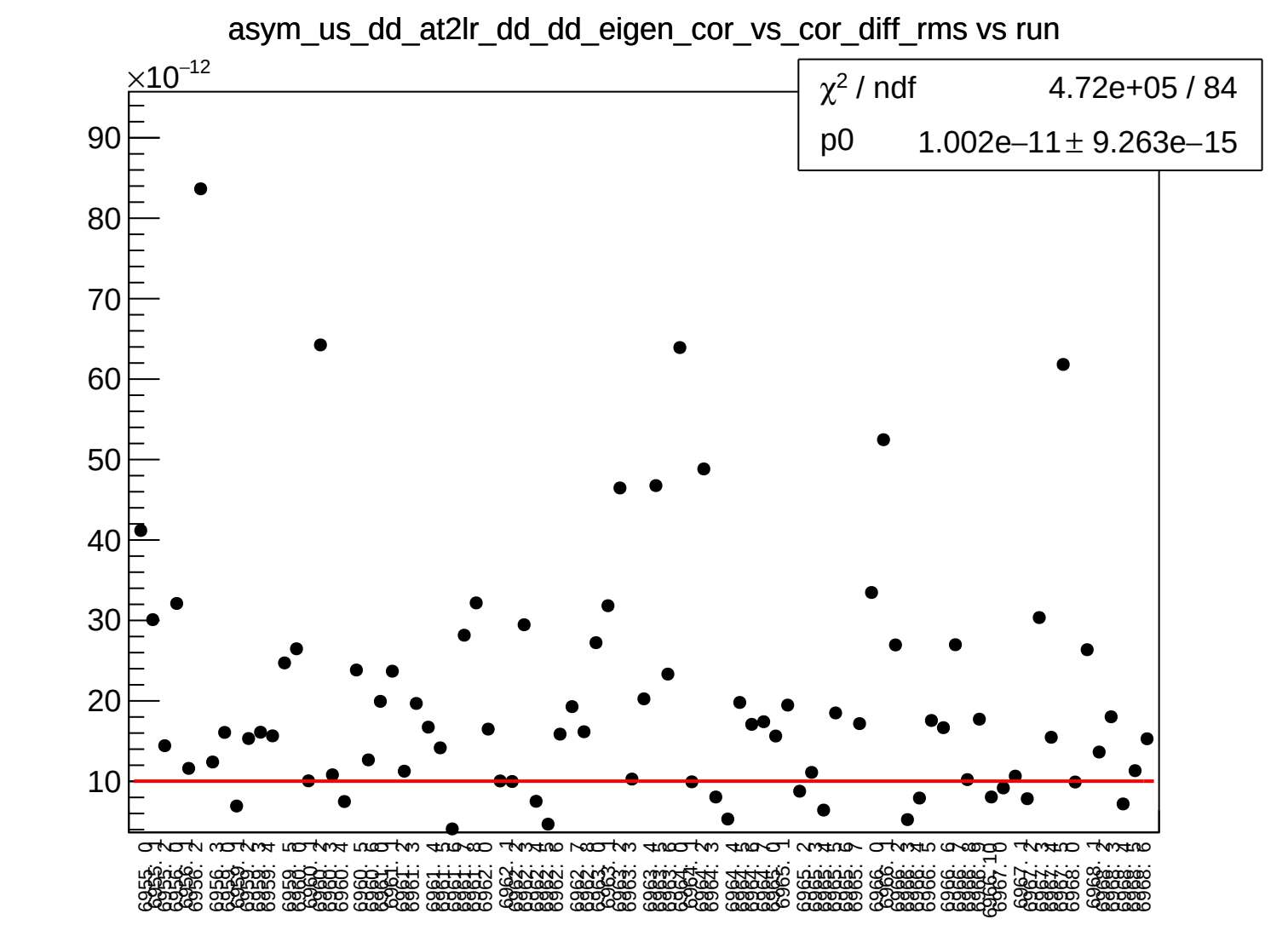

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 84
p0 0.0491± 0.09413
pull
Entries 85
Mean 155.6
Std Dev 0
pull1D
Entries 85
Mean 0.01649
Std Dev 1.092

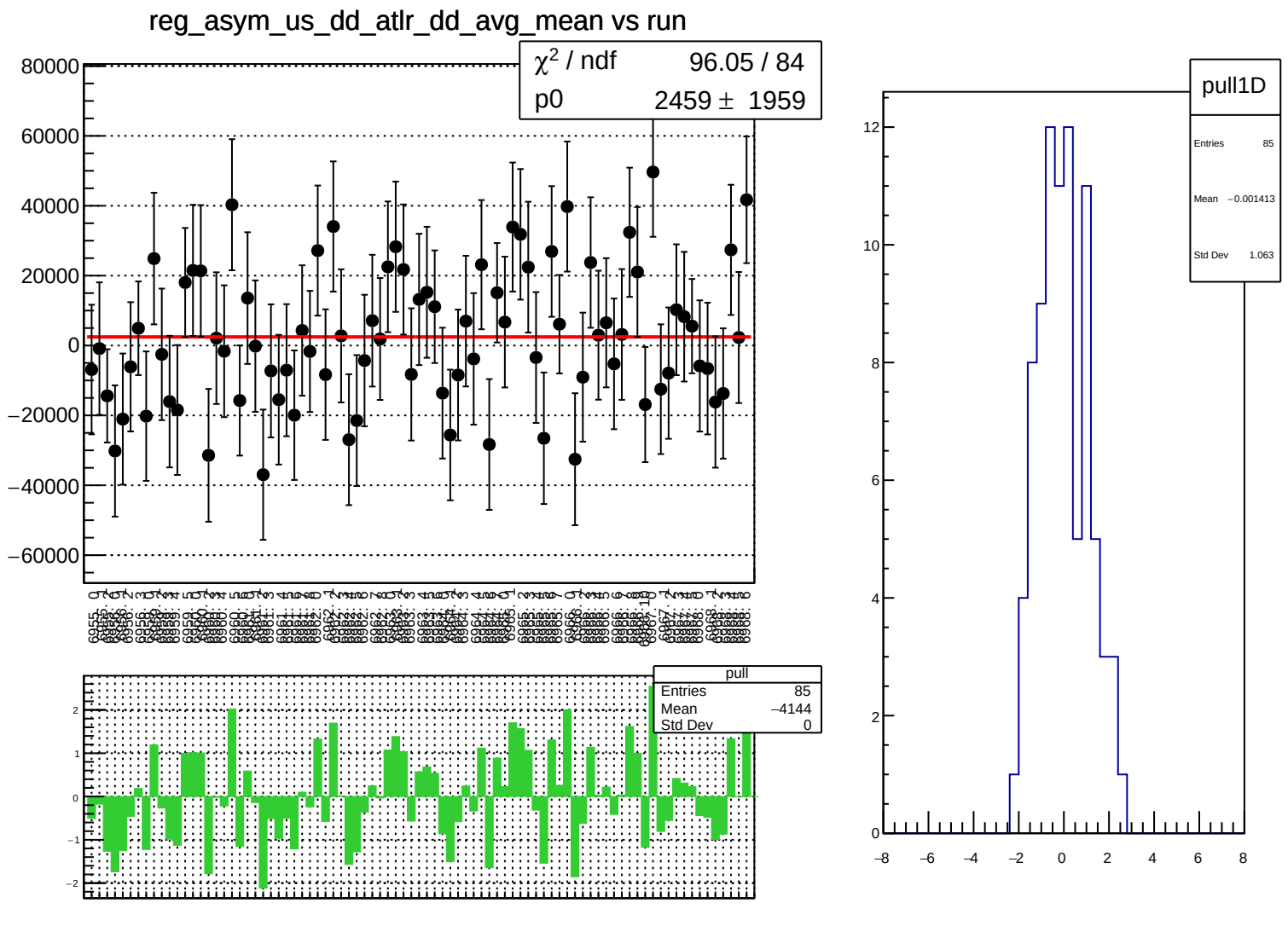

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.382e+04 / 84
p0 84.16 ± 0.06656
120
110
100
90
80
70
60

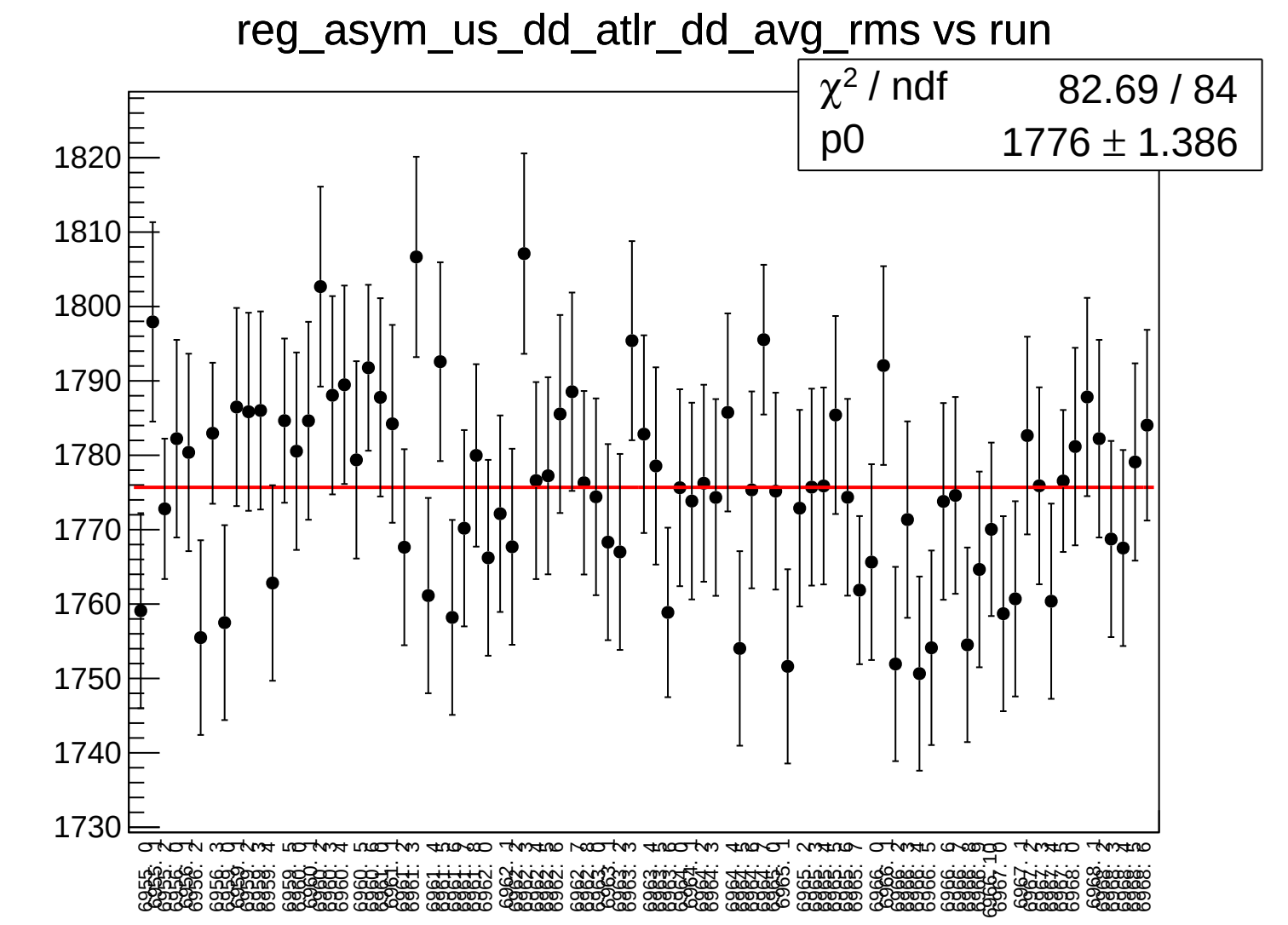

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 84
p0 0.0491± 0.09413
pull
Entries 85
Mean 155.6
Std Dev 0
pull1D
Entries 85
Mean 0.01649
Std Dev 1.092

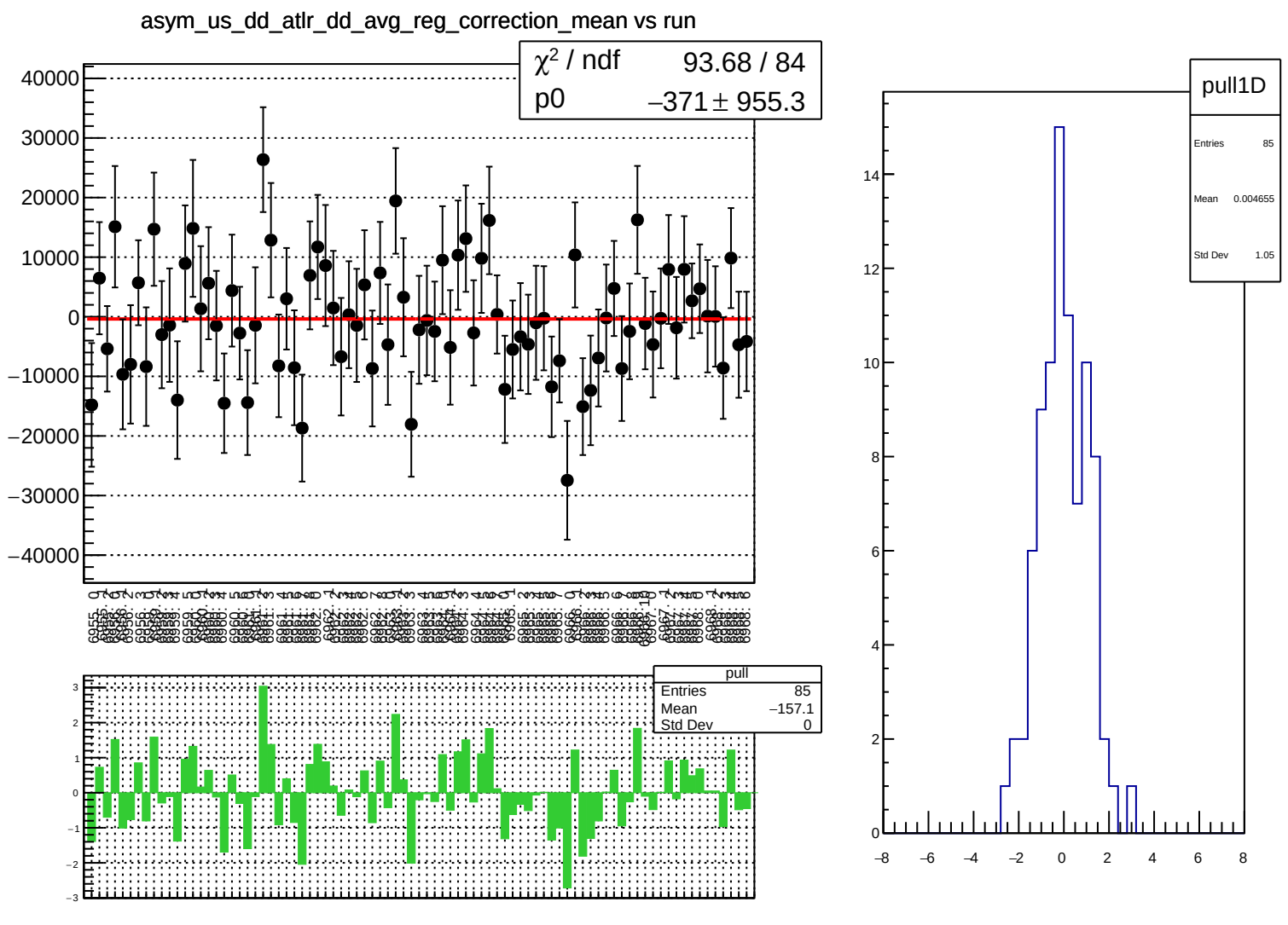

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.382e+04 / 84
p0 84.16 ± 0.06656
120
110
100
90
80
70
60

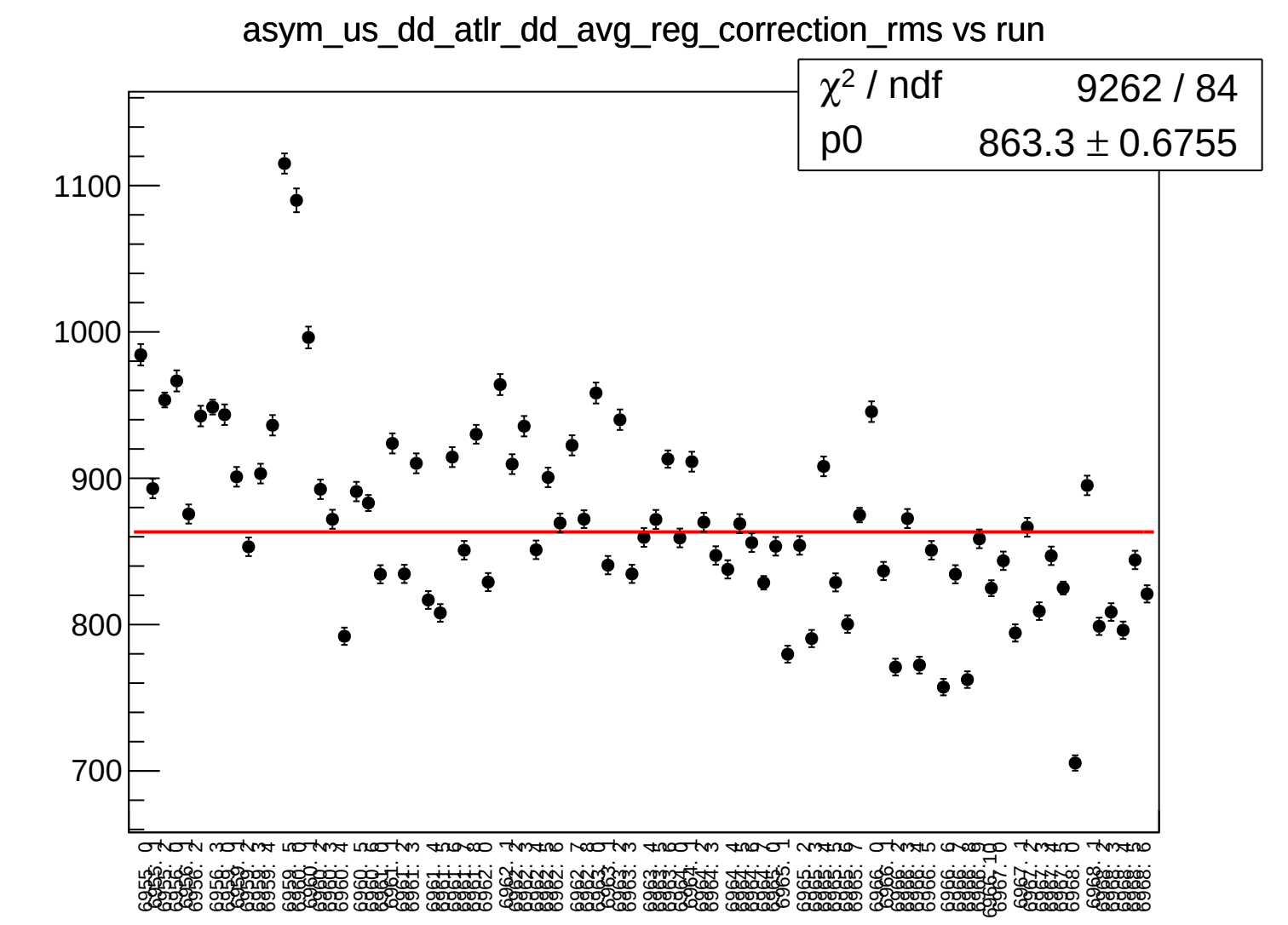

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.68 / 84
p0 −1.408e−15 ± 1.31e−14
pull
Entries 85
Mean 78.07
Std Dev 0
pull1D
Entries 85
Mean −0.04809
Std Dev 0.8976

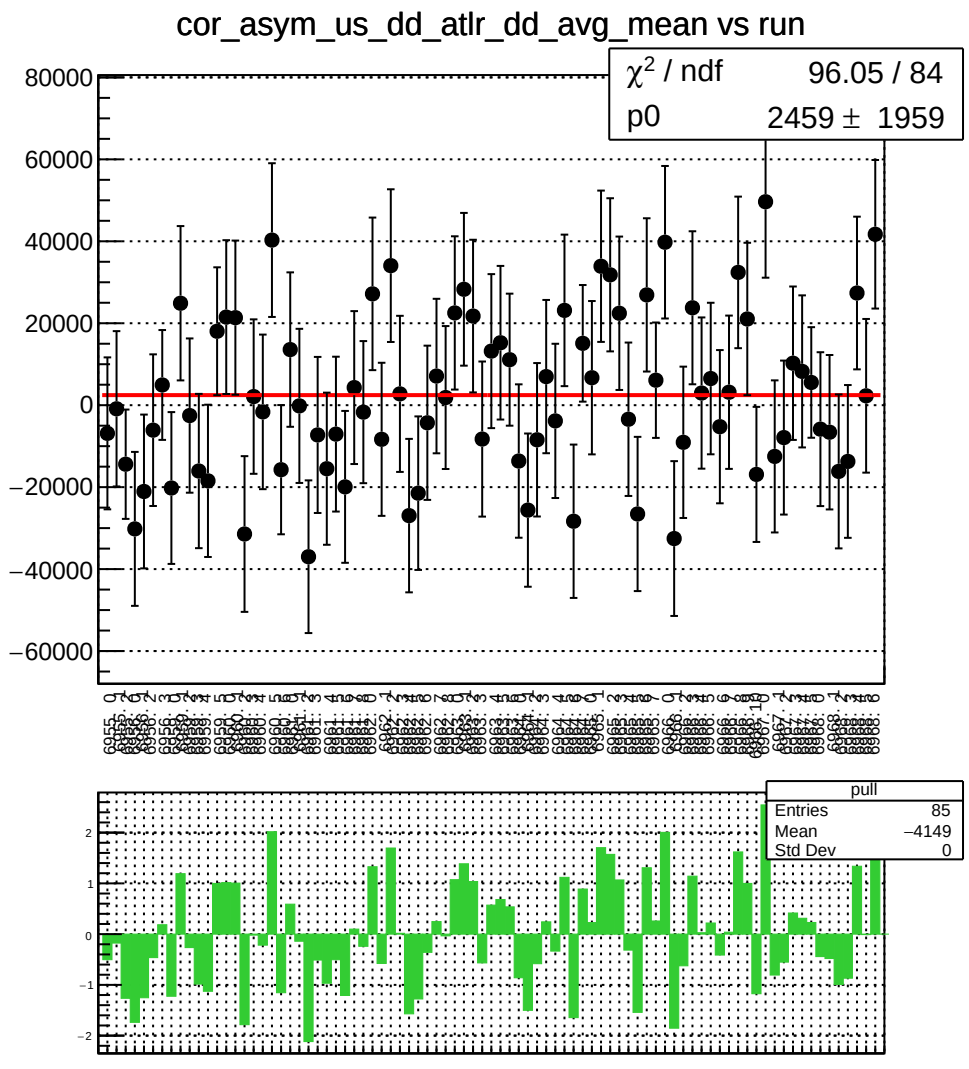

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.72e+05 / 84
p0 1.002e−11 ± 9.263e−15
90
80
70
60
50
40
30
20
10

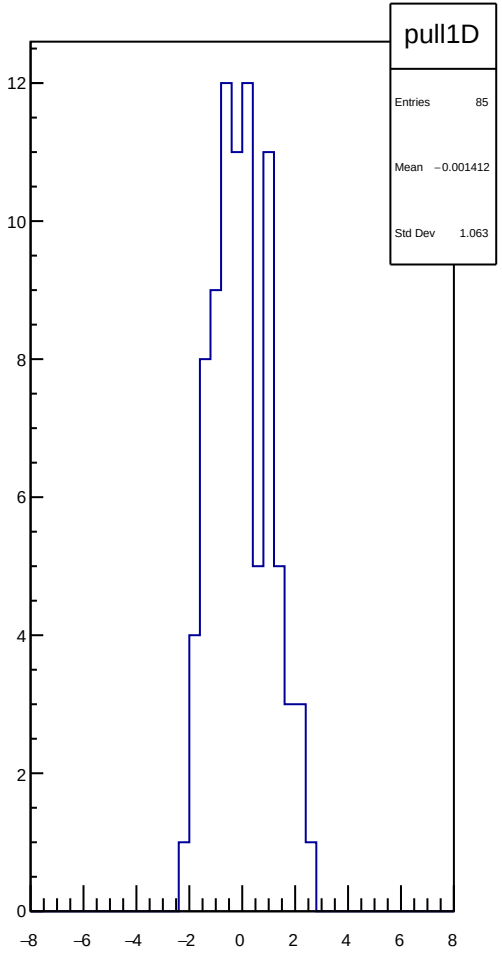

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.05 / 84
p0 2459 ± 1959
pull
Entries 85
Mean −4144
Std Dev 0
pull1D
Entries 85
Mean −0.001413
Std Dev 1.063

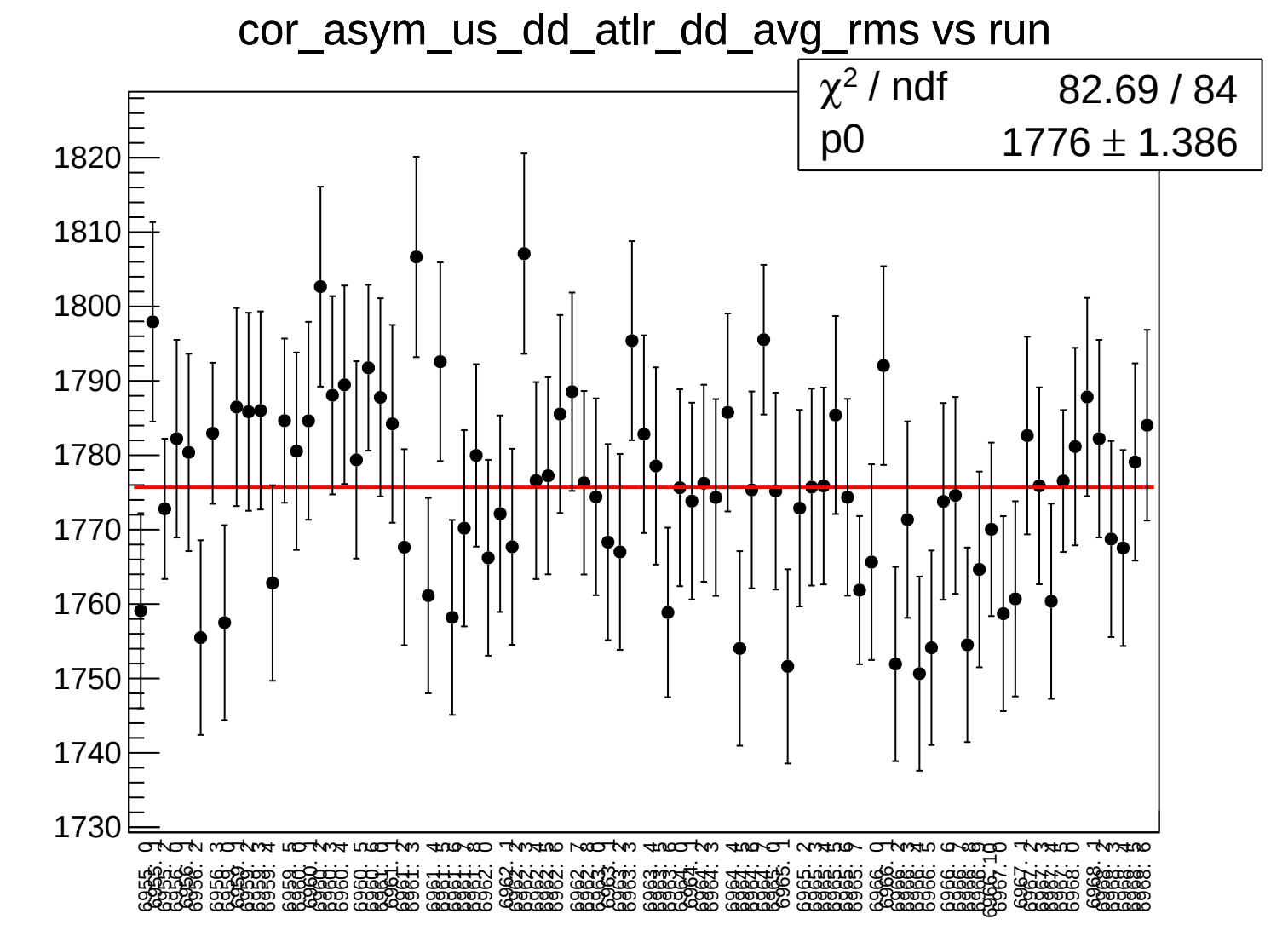

reg_asym_us_dd_atlr_dd_avg_rms vs run
$\chi^2$ / ndf 82.69 / 84
p0 1776 ± 1.386
1820
1810
1800
1790
1780
1770
1760
1750
1740
1730

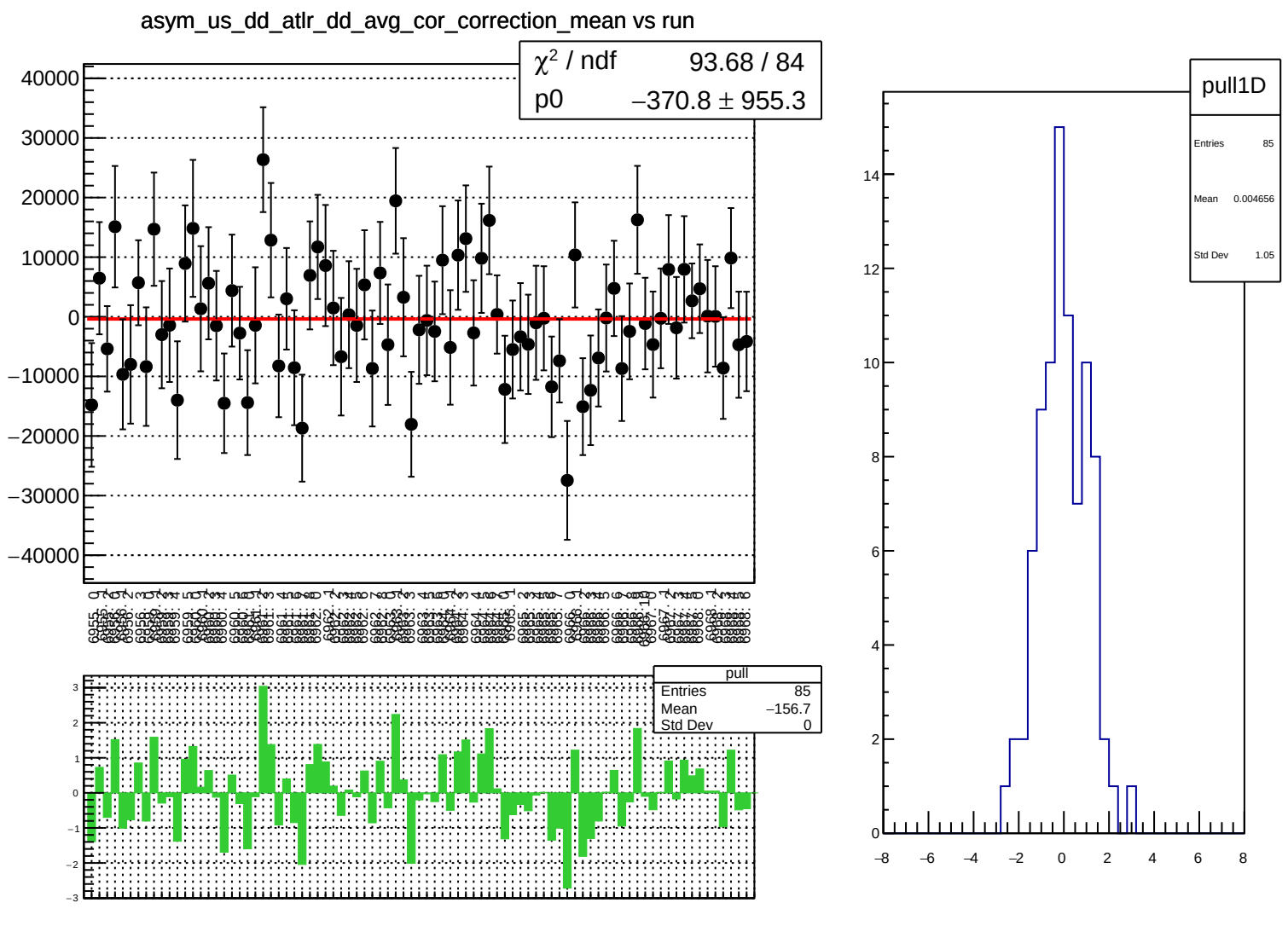

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 93.68 / 84
p0 −371 ± 955.3
pull
Entries 85
Mean −157.1
Std Dev 0
pull1D
Entries 85
Mean 0.004655
Std Dev 1.05

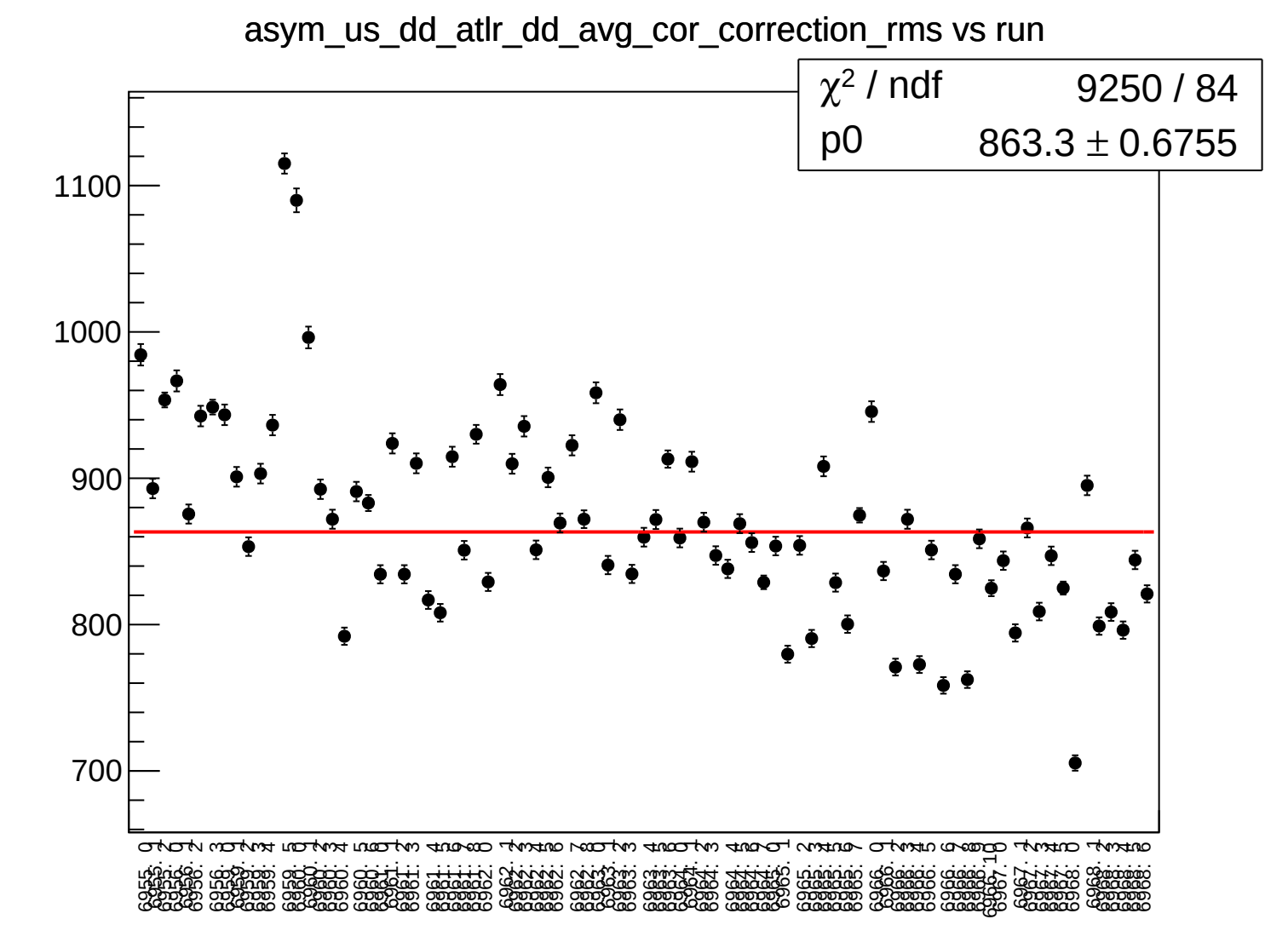

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 9262 / 84
p0 863.3 ± 0.6755
1100
1000
900
800
700

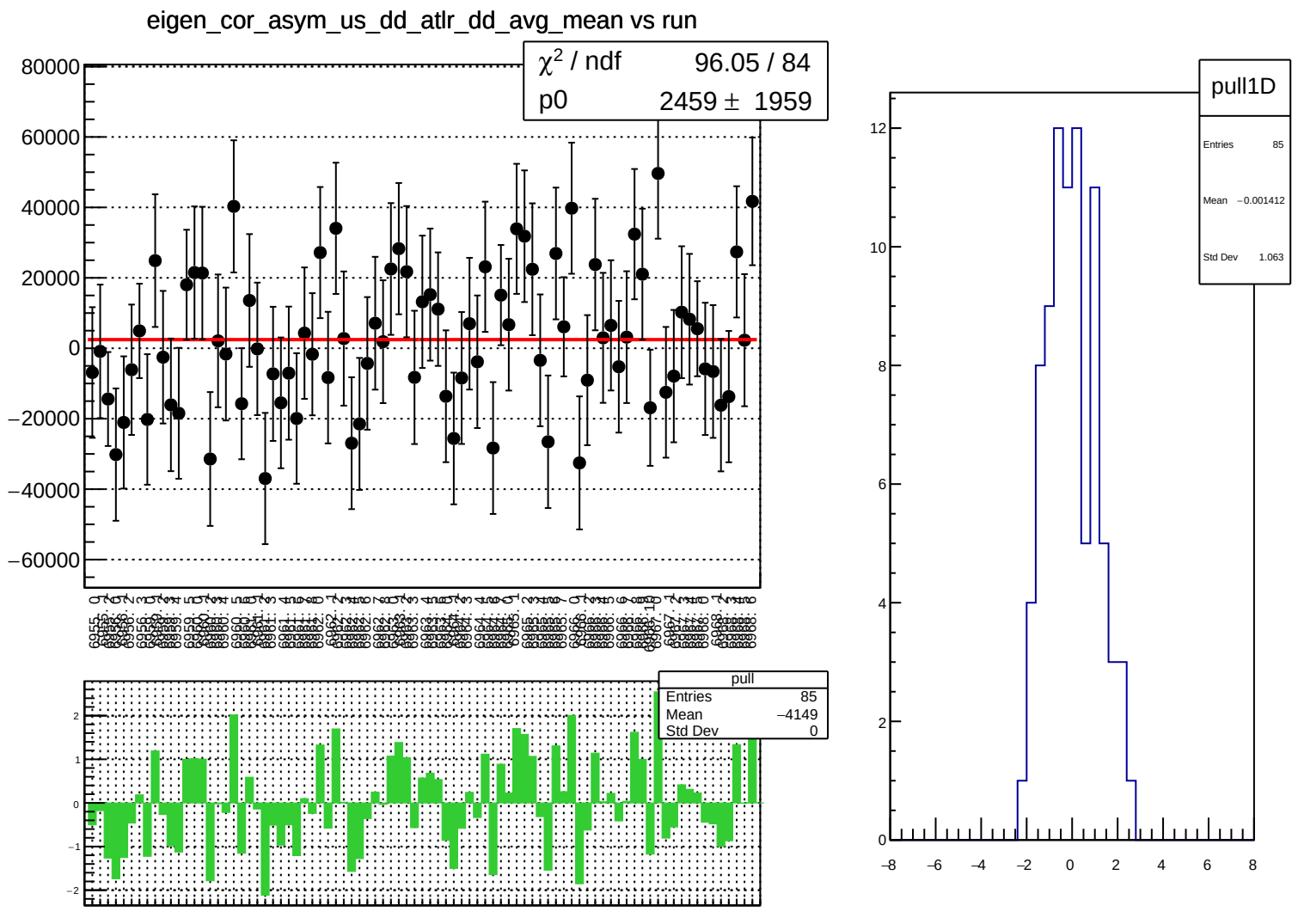

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.05 / 84
p0 2459 ± 1959
pull
Entries 85
Mean −4149
Std Dev 0

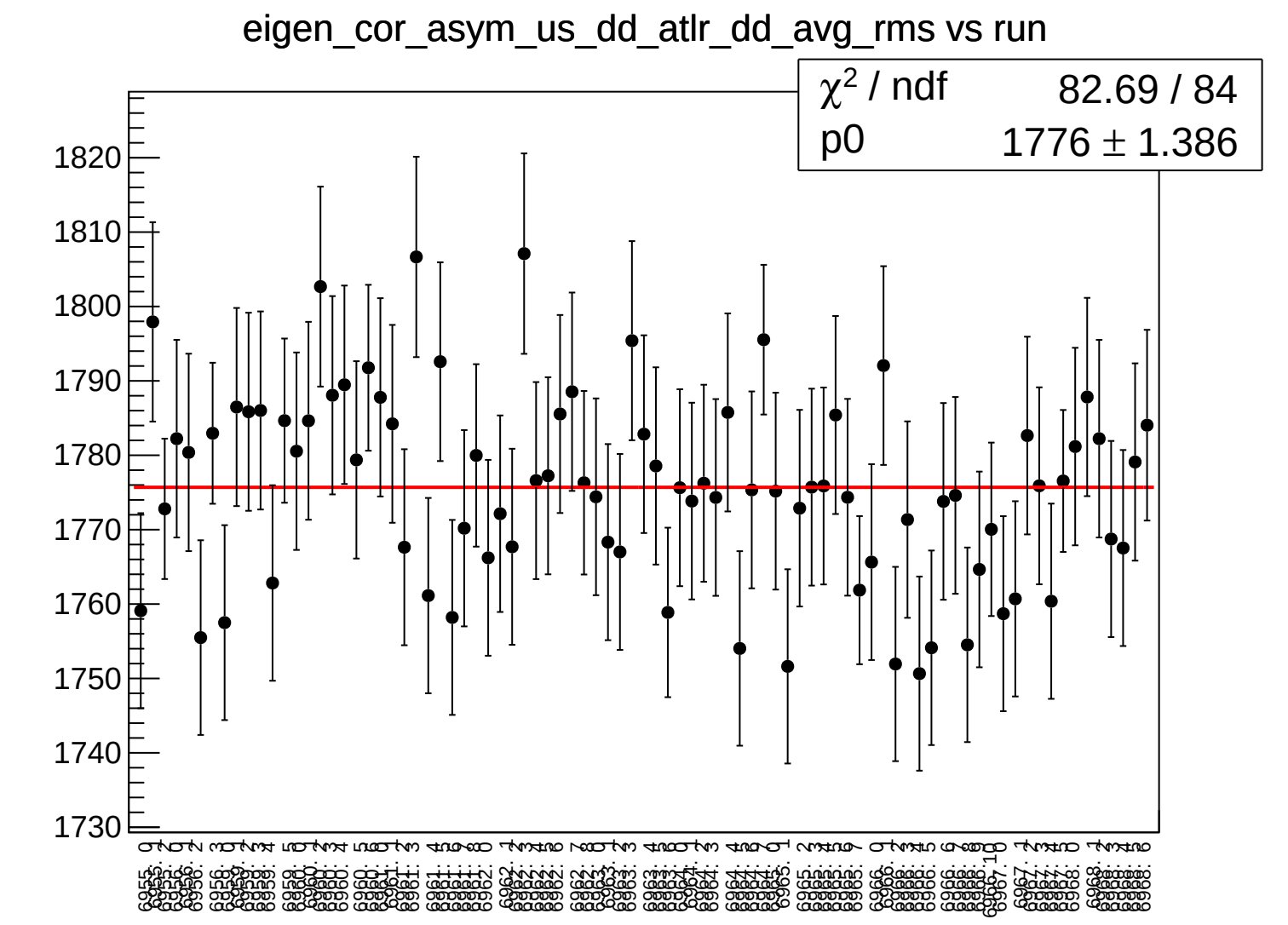

pull1D
Entries 85
Mean −0.001412
Std Dev 1.063

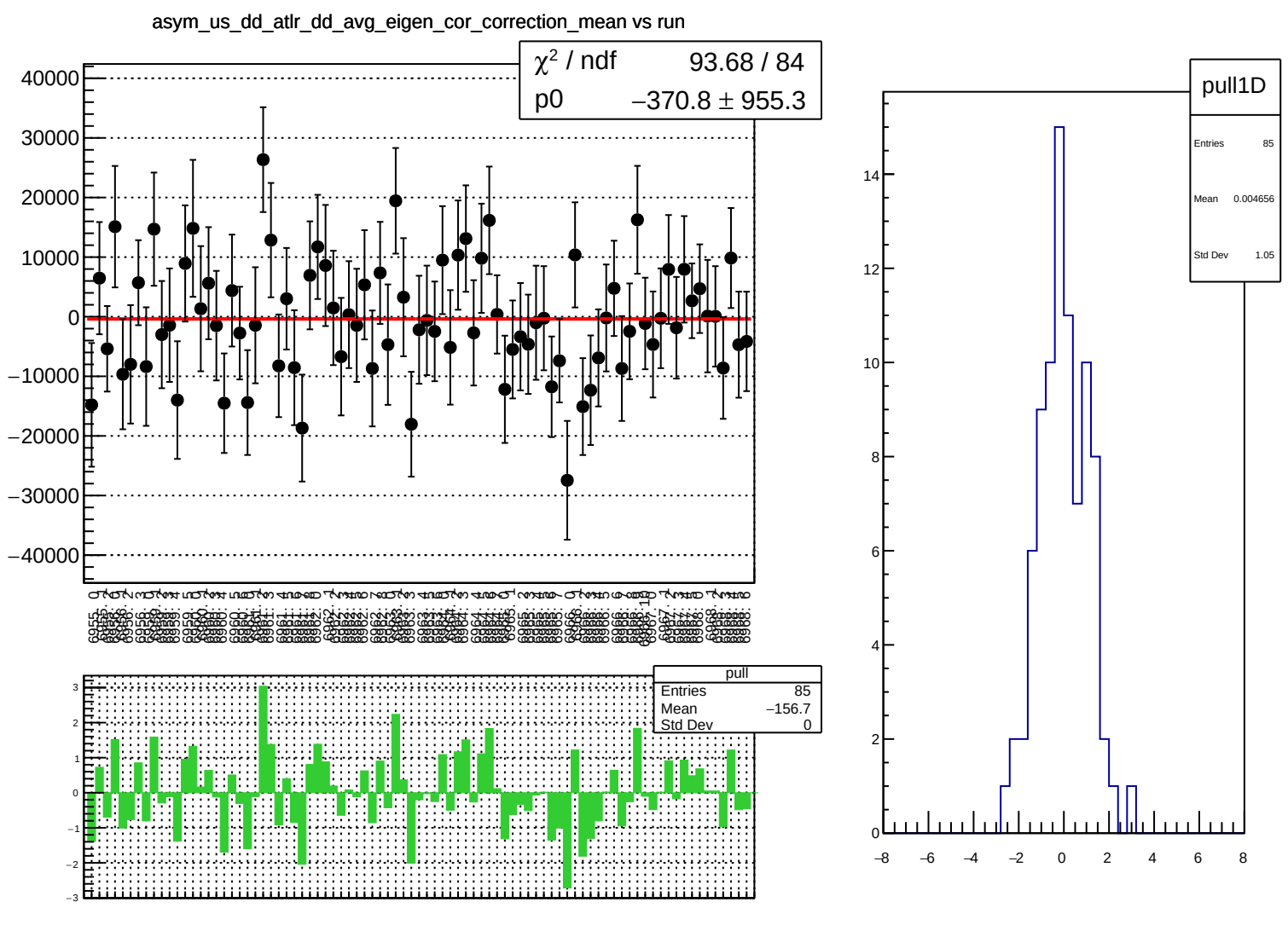

cor_asym_us_dd_atlr_dd_avg_rms vs run
$\chi^2$ / ndf 82.69 / 84
p0 1776 ± 1.386
1820
1810
1800
1790
1780
1770
1760
1750
1740
1730

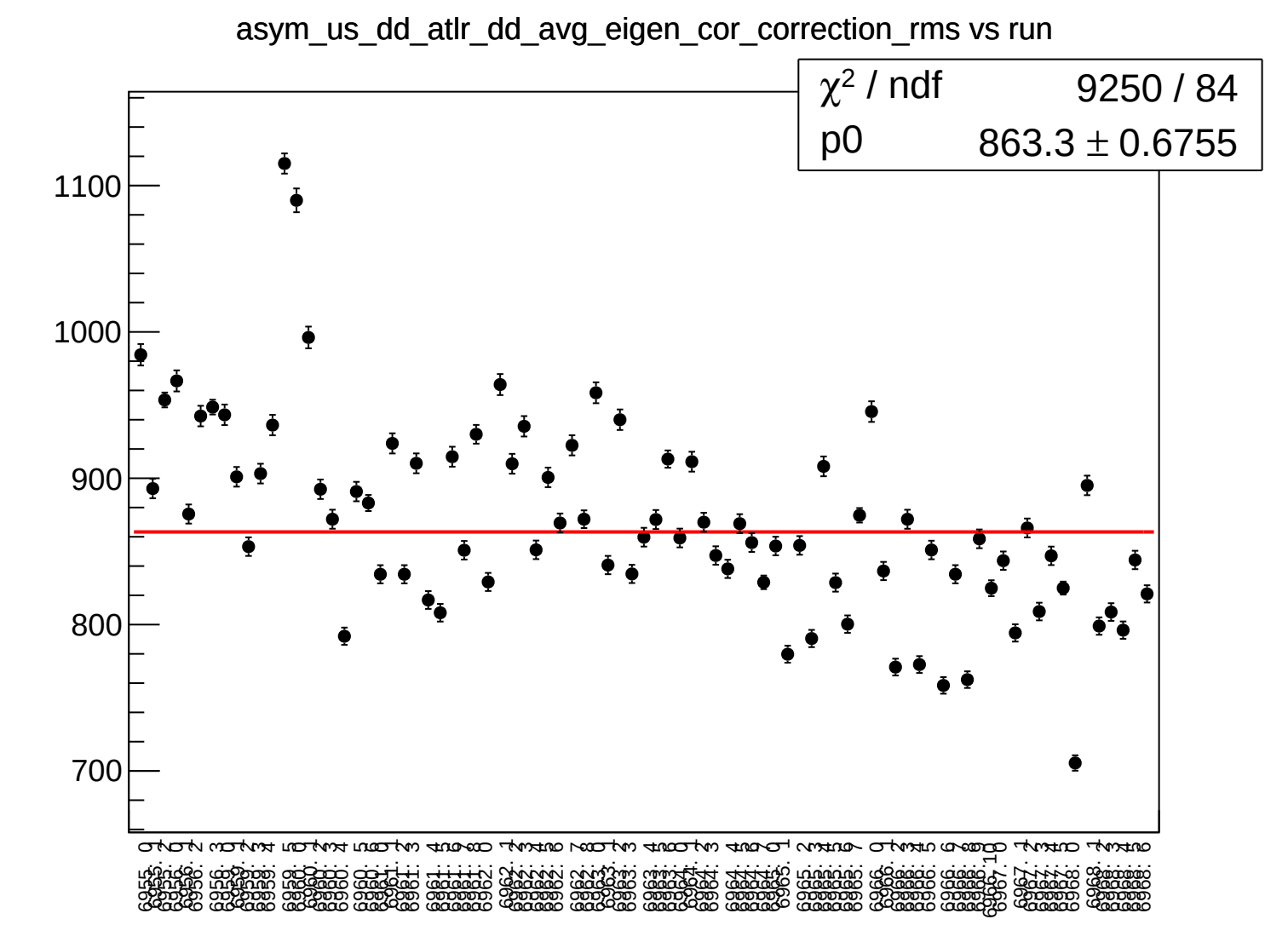

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 93.68 / 84
p0 −370.8 ± 955.3
pull
Entries 85
Mean −156.7
Std Dev 0
pull1D
Entries 85
Mean 0.004656
Std Dev 1.05

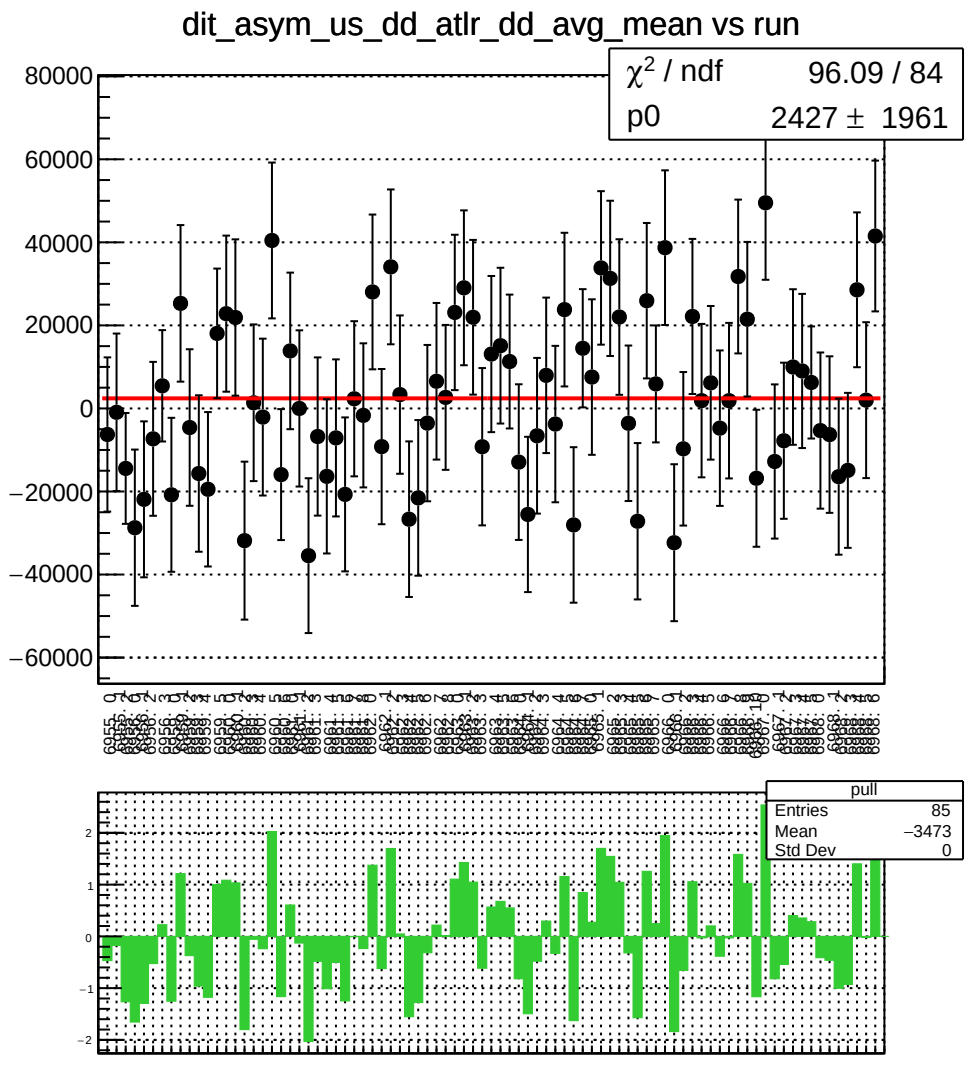

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 9250 / 84
p0 863.3 ± 0.6755
1100
1000
900
800
700

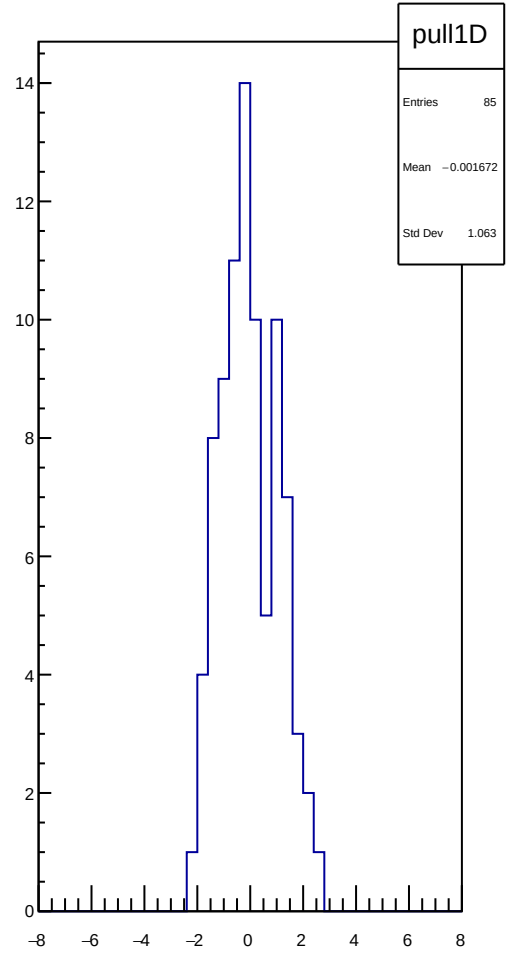

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.05 / 84
p0 2459 ± 1959
pull
Entries 85
Mean −4149
Std Dev 0
pull1D
Entries 85
Mean −0.001412
Std Dev 1.063

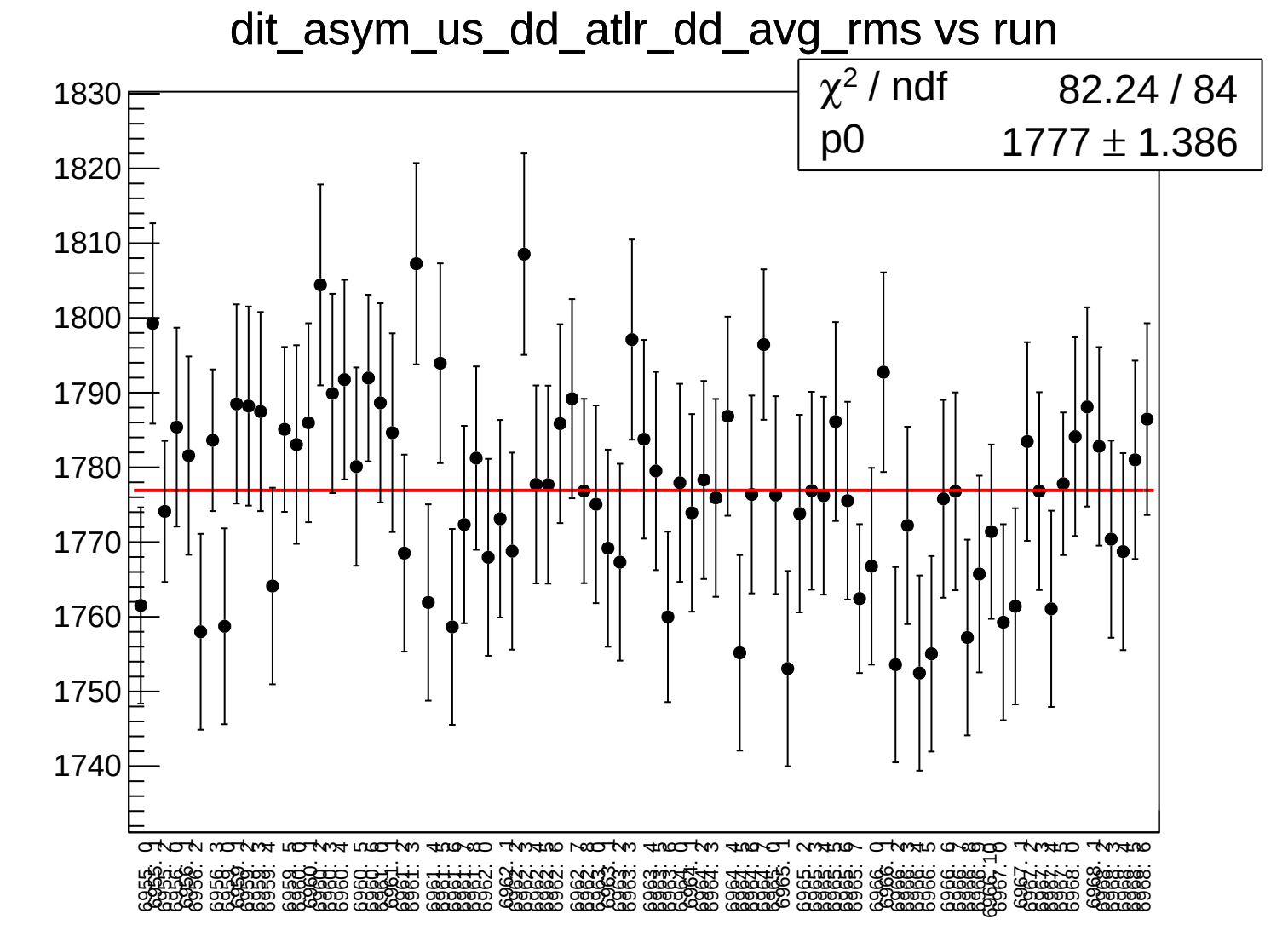

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
$\chi^2$ / ndf 82.69 / 84
p0 1776 ± 1.386
1820
1810
1800
1790
1780
1770
1760
1750
1740
1730

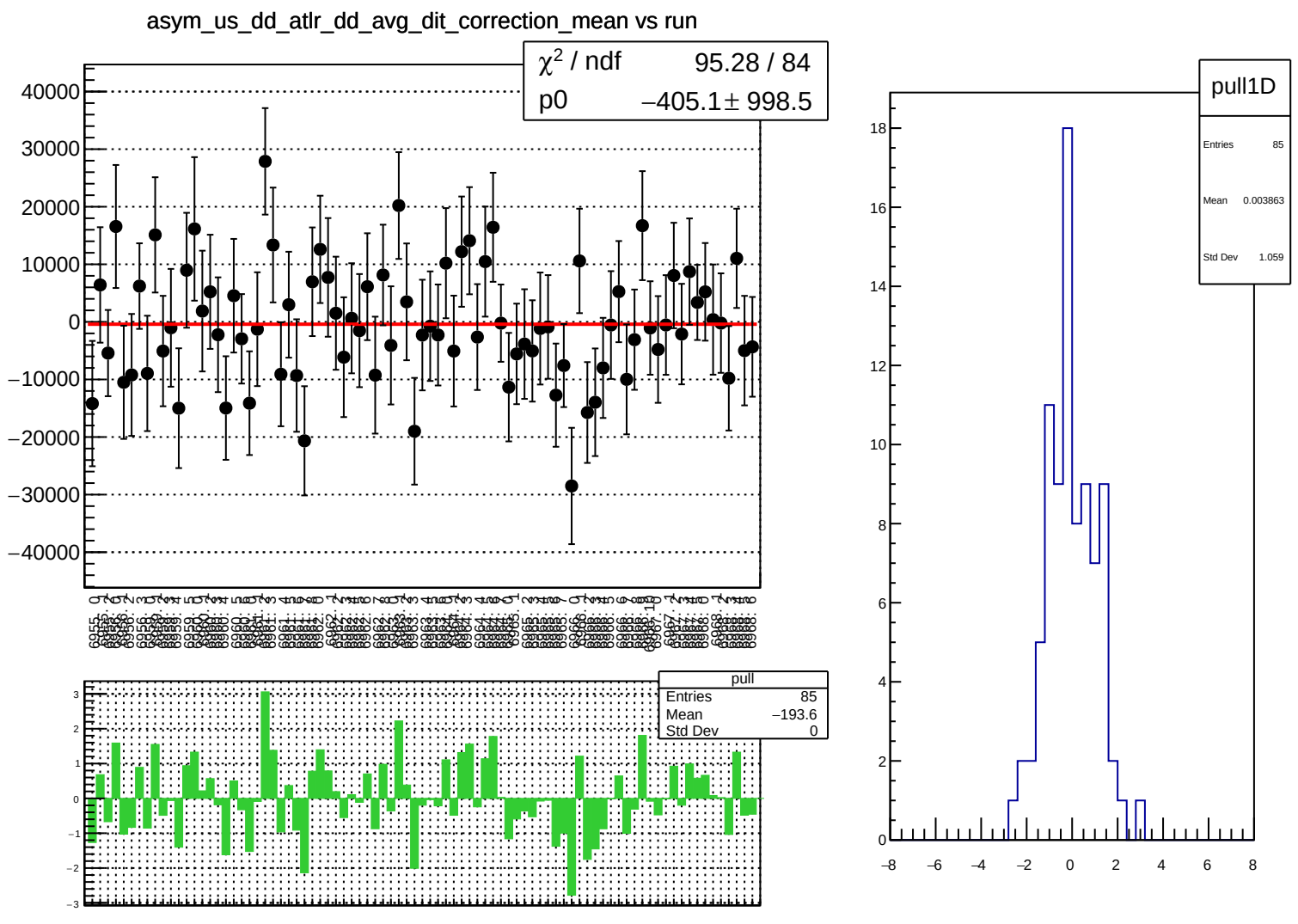

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.68 / 84
p0 −370.8 ± 955.3
pull
Entries 85
Mean −156.7
Std Dev 0
pull1D
Entries 85
Mean 0.004656
Std Dev 1.05

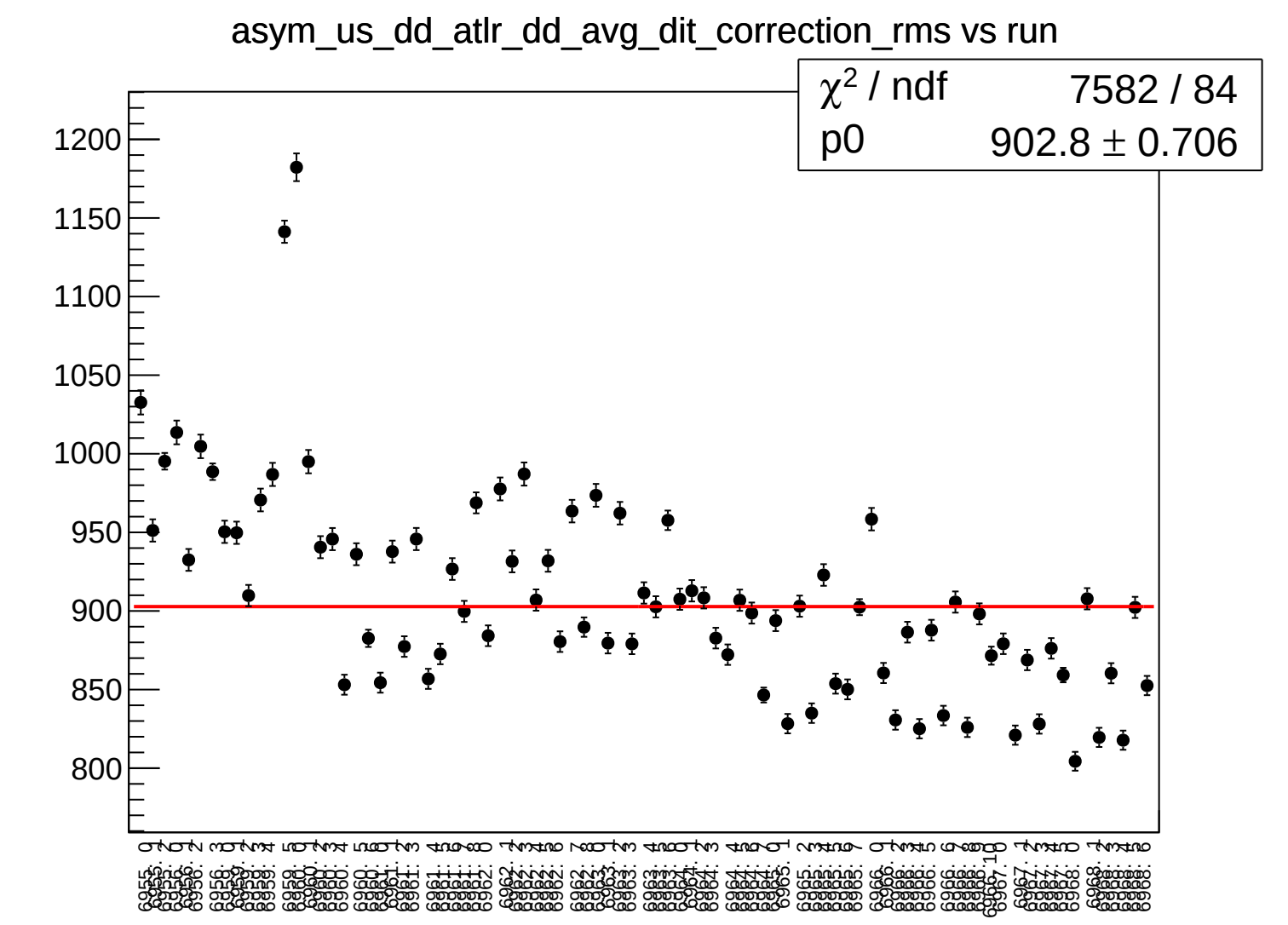

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9250 / 84
p0 863.3 ± 0.6755
1100
1000
900
800
700

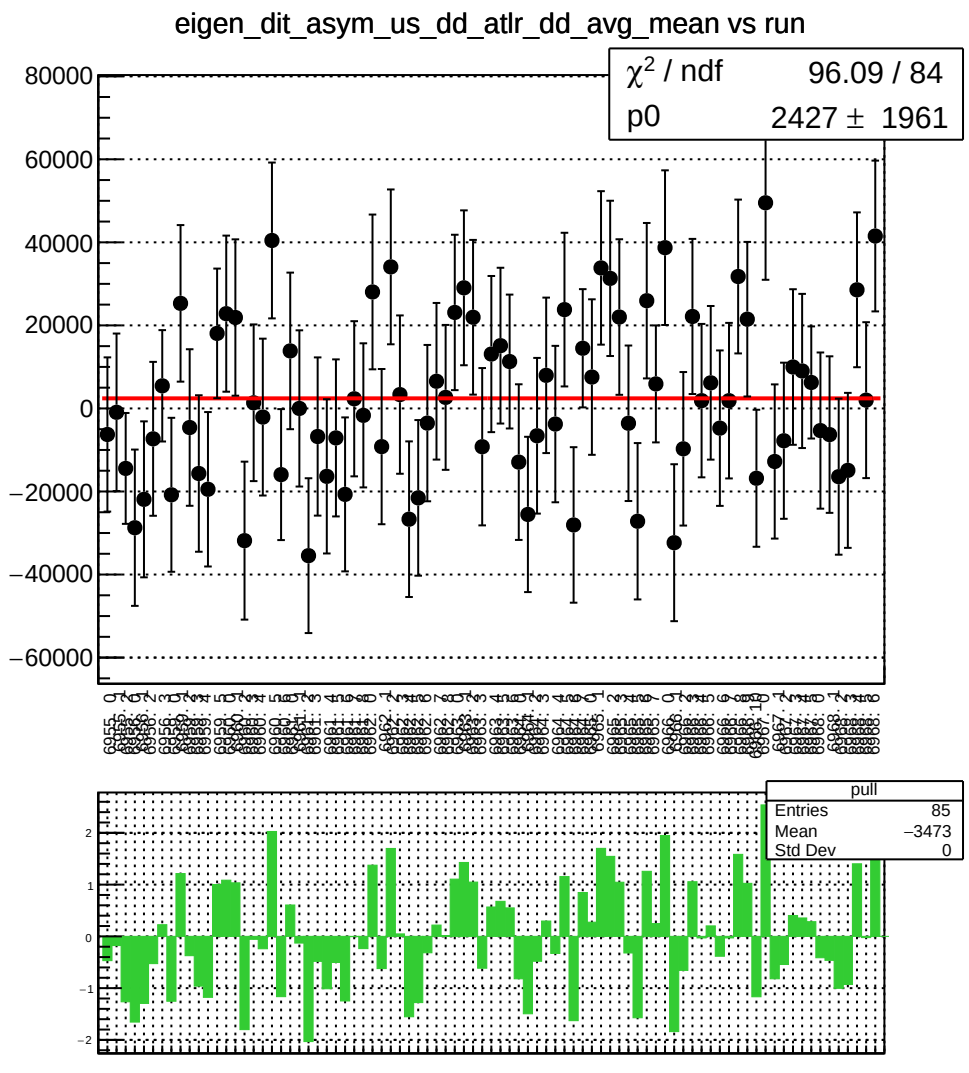

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.09 / 84
p0 2427 ± 1961
pull
Entries 85
Mean −3473
Std Dev 0

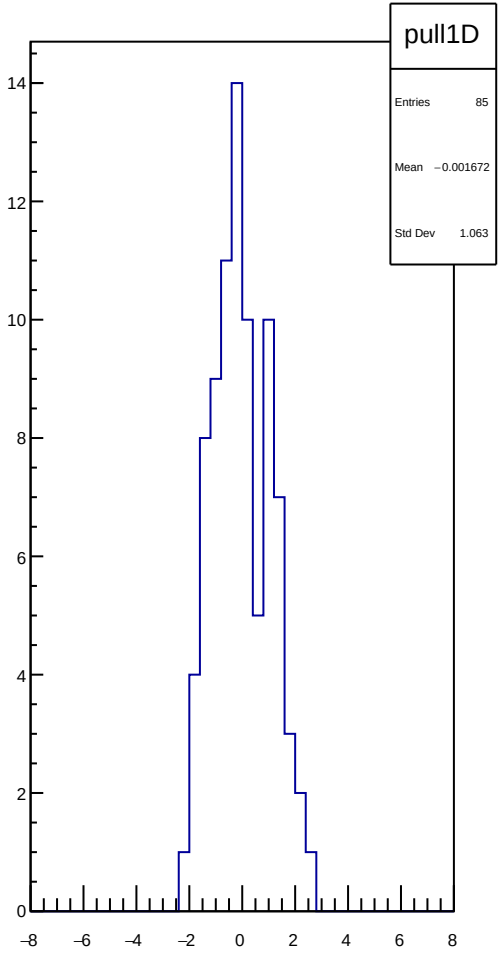

pull1D
Entries 85
Mean −0.001672
Std Dev 1.063

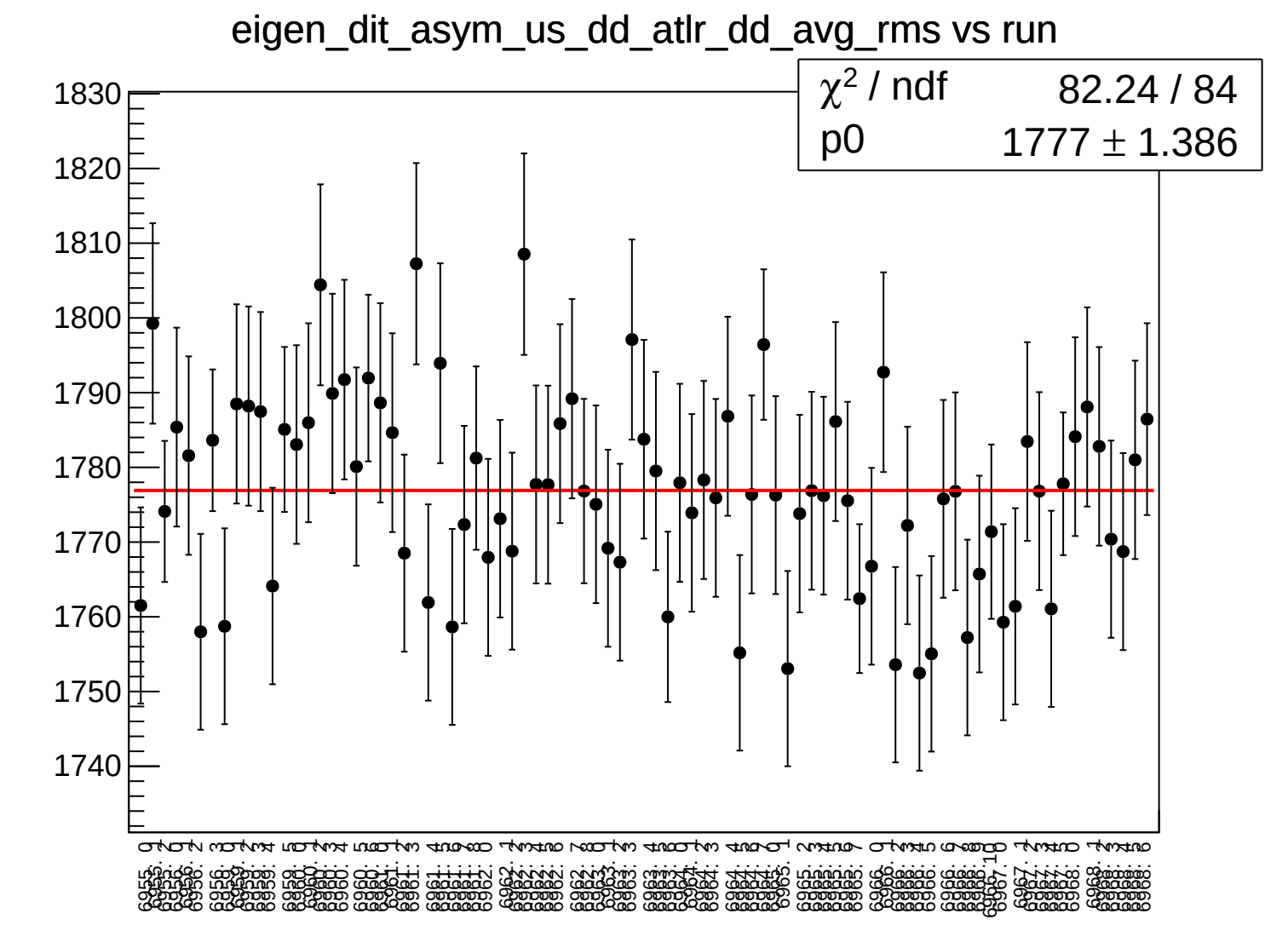

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 82.24 / 84
p0 1777 ± 1.386
1830
1820
1810
1800
1790
1780
1770
1760
1750
1740

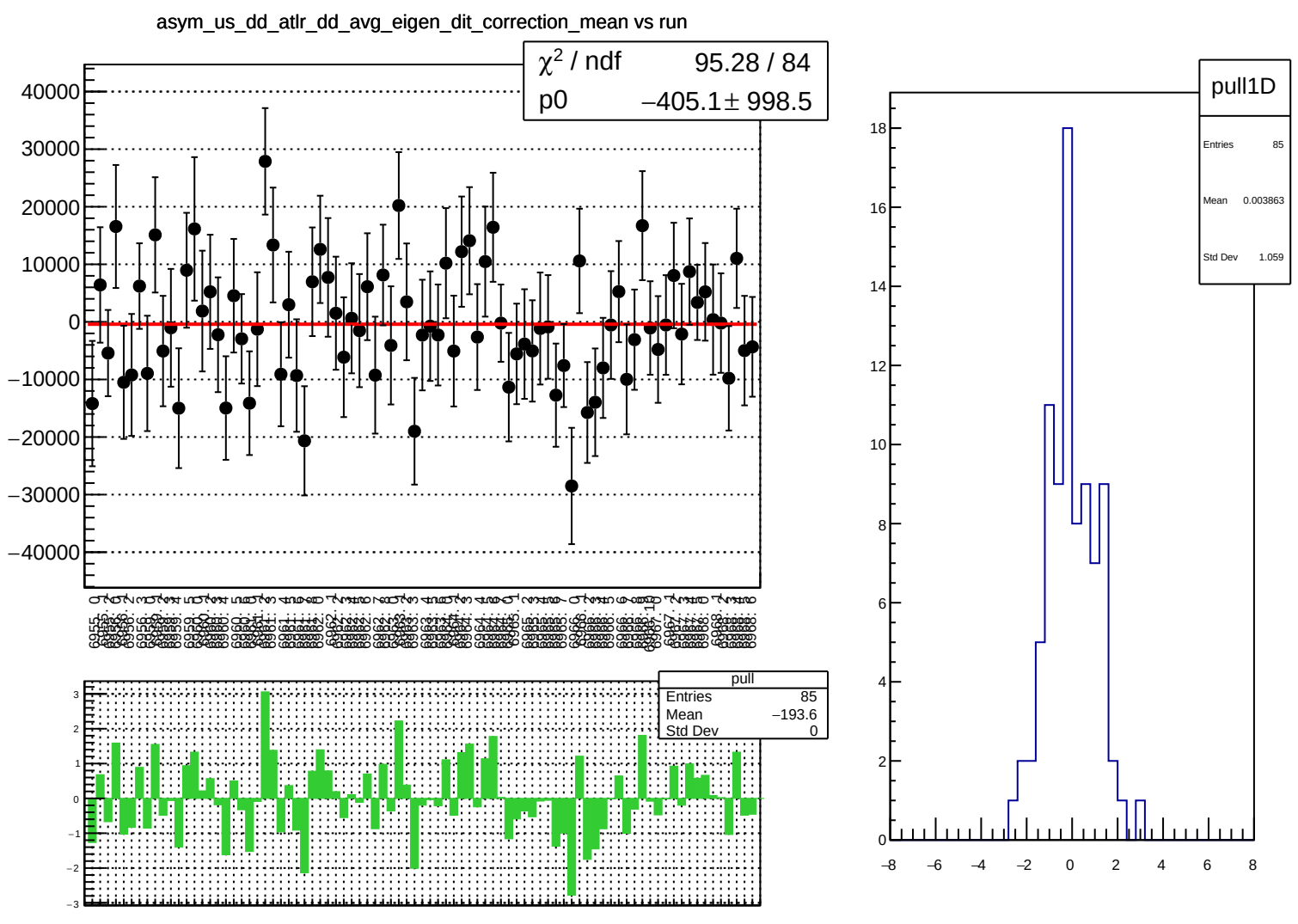

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 95.28 / 84
p0 −405.1± 998.5
pull
Entries 85
Mean −193.6
Std Dev 0
pull1D
Entries 85
Mean 0.003863
Std Dev 1.059

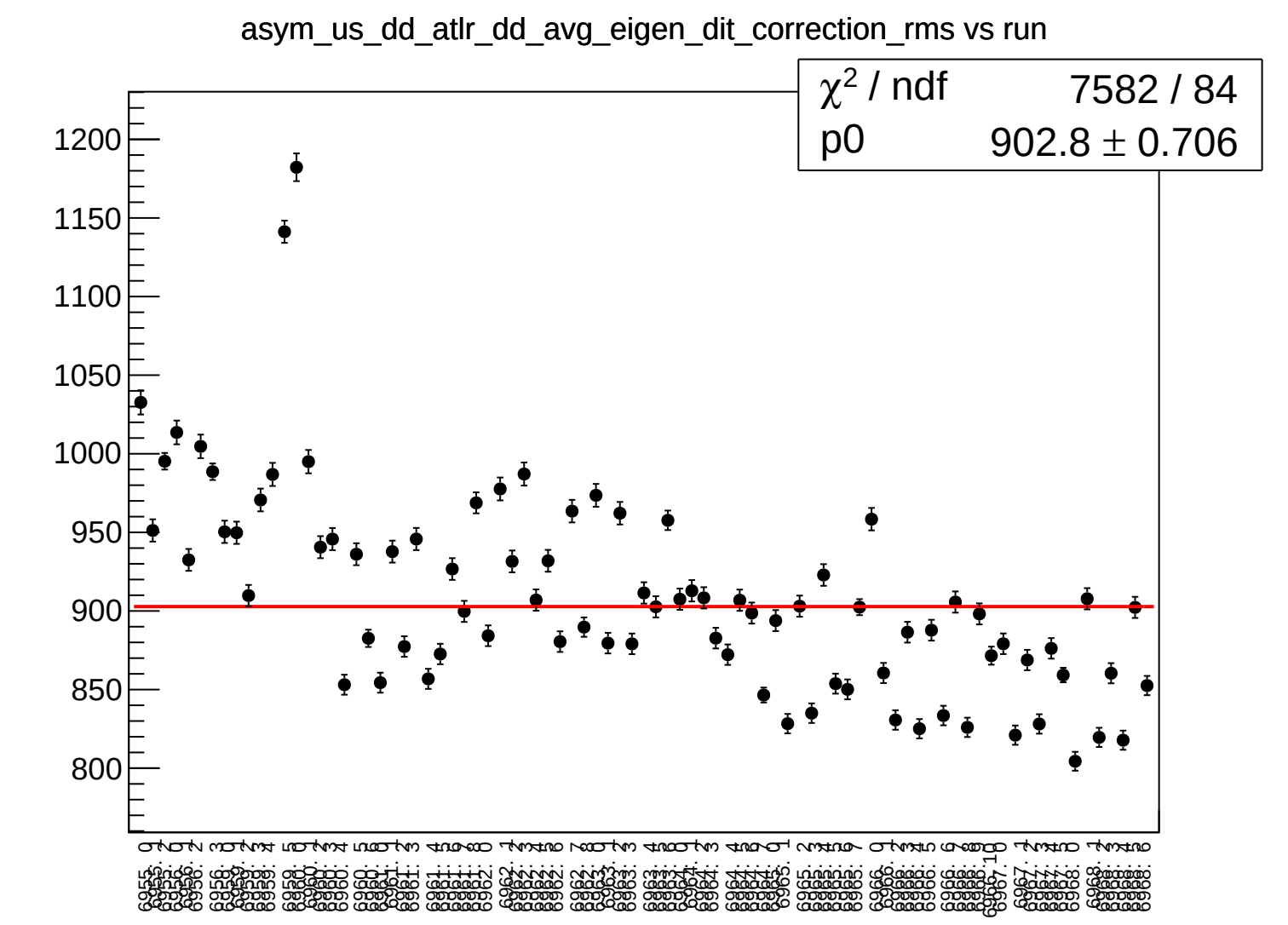

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
$\chi^2$ / ndf 7582 / 84
p0 902.8 ± 0.706
1200
1150
1100
1050
1000
950
900
850
800

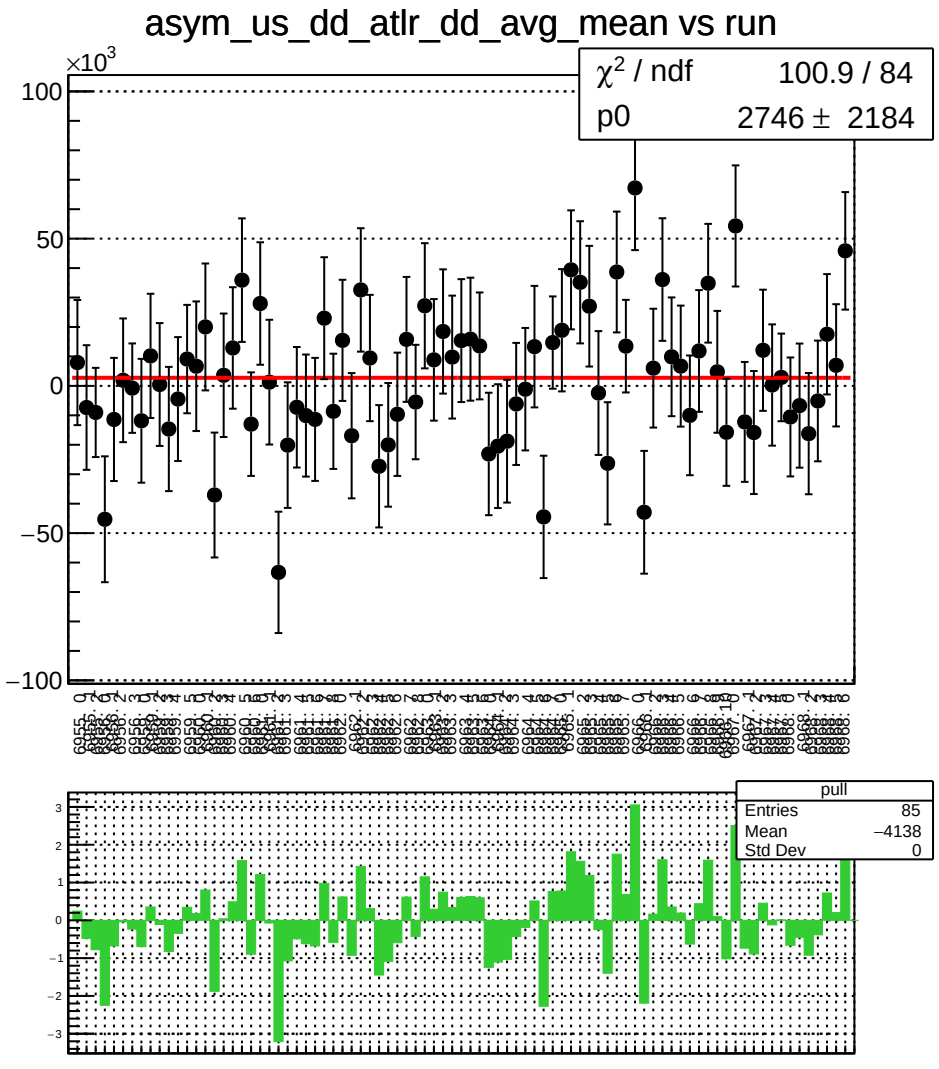

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.09 / 84
p0 2427 ± 1961
pull
Entries 85
Mean −3473
Std Dev 0

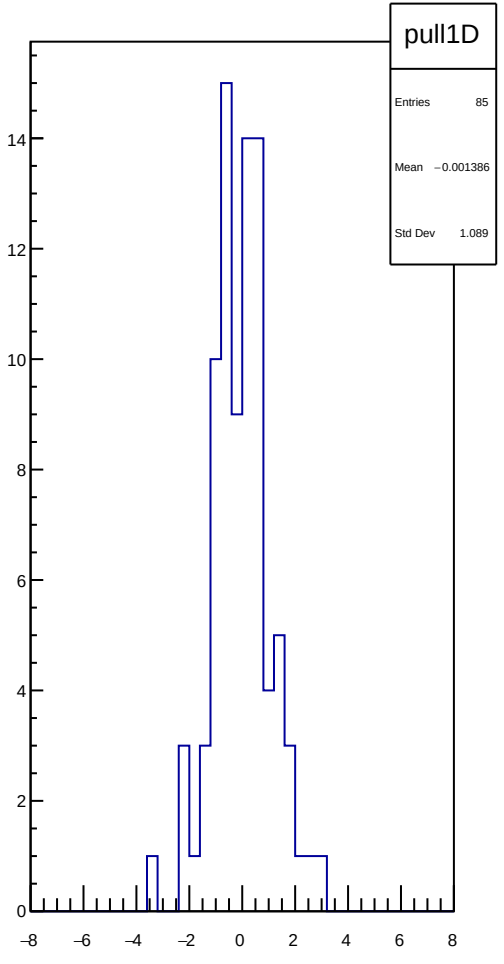

pull1D
Entries 85
Mean −0.001672
Std Dev 1.063

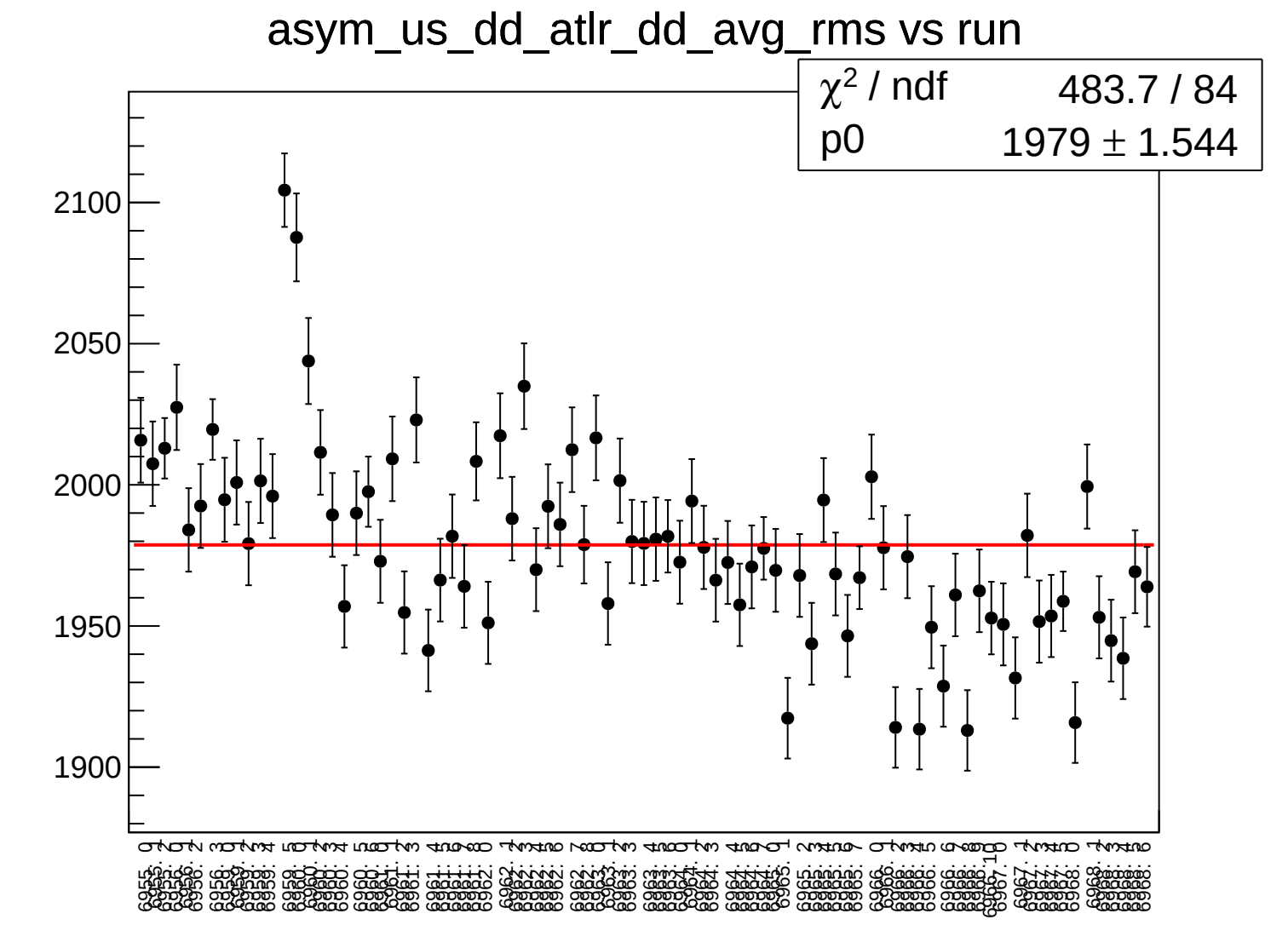

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
$\chi^2$ / ndf 82.24 / 84
p0 1777 ± 1.386
1830
1820
1810
1800
1790
1780
1770
1760
1750
1740

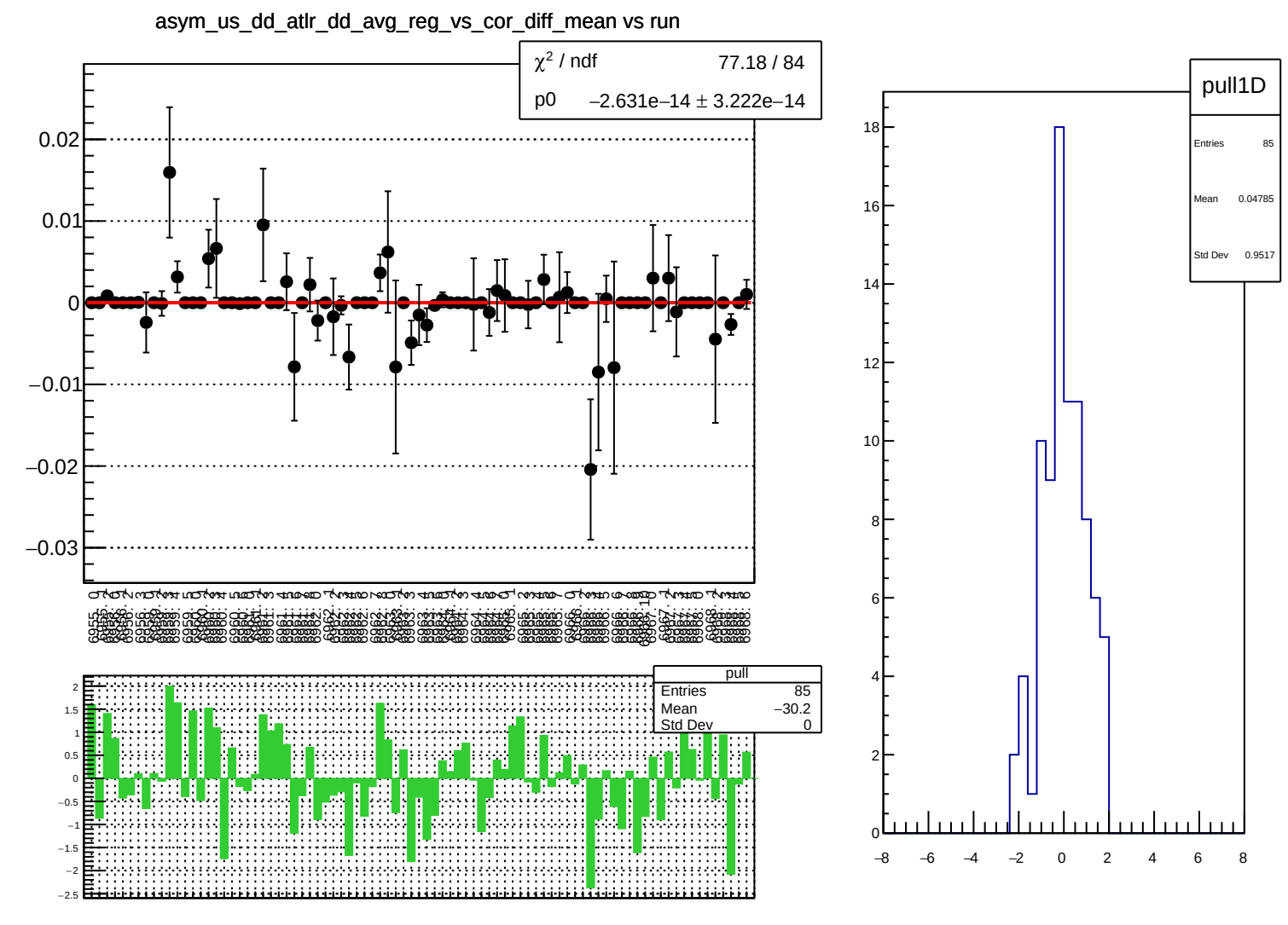

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.28 / 84
p0 −405.1± 998.5
pull
Entries 85
Mean −193.6
Std Dev 0
pull1D
Entries 85
Mean 0.003863
Std Dev 1.059

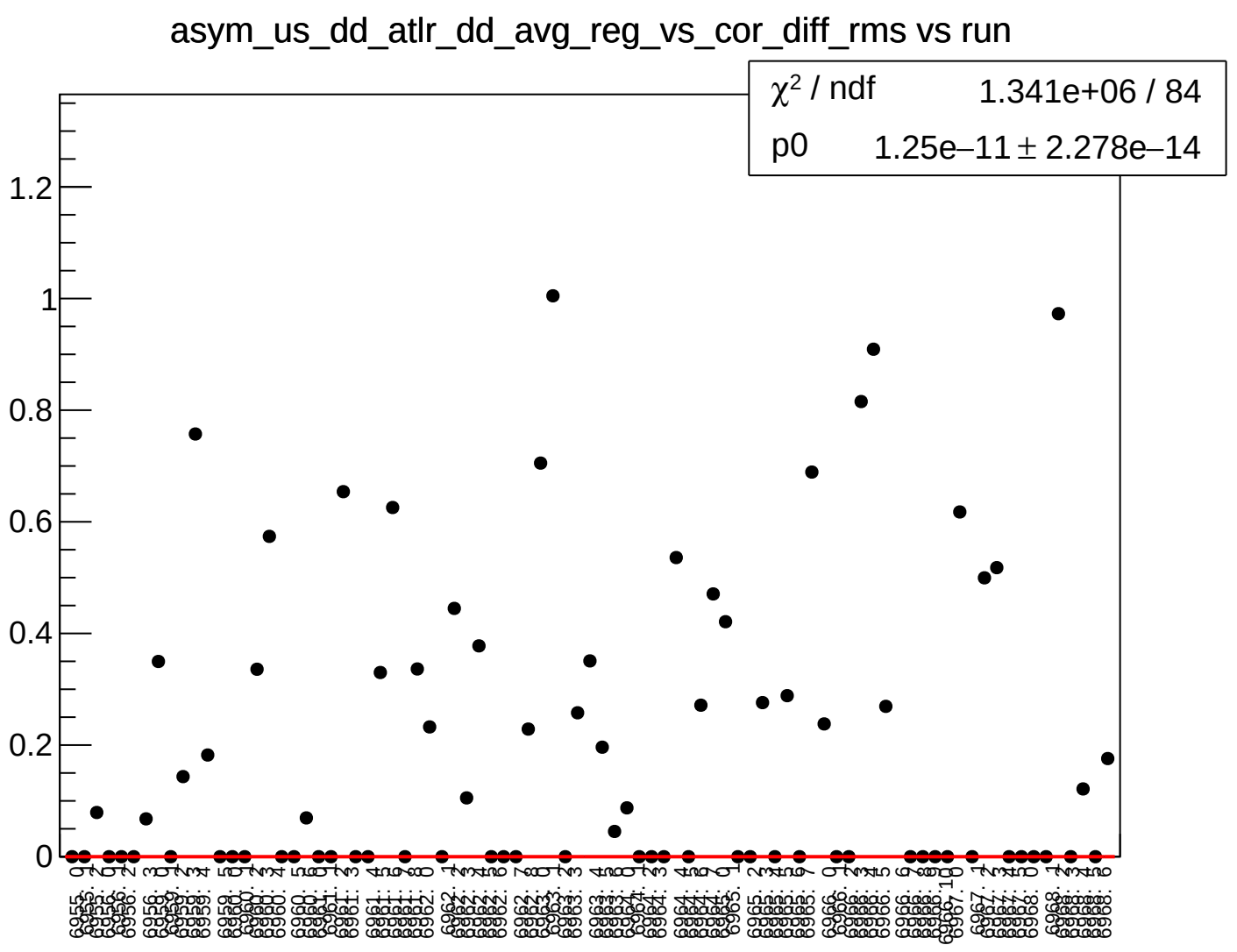

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7582 / 84
p0 902.8 ± 0.706
1200
1150
1100
1050
1000
950
900
850
800

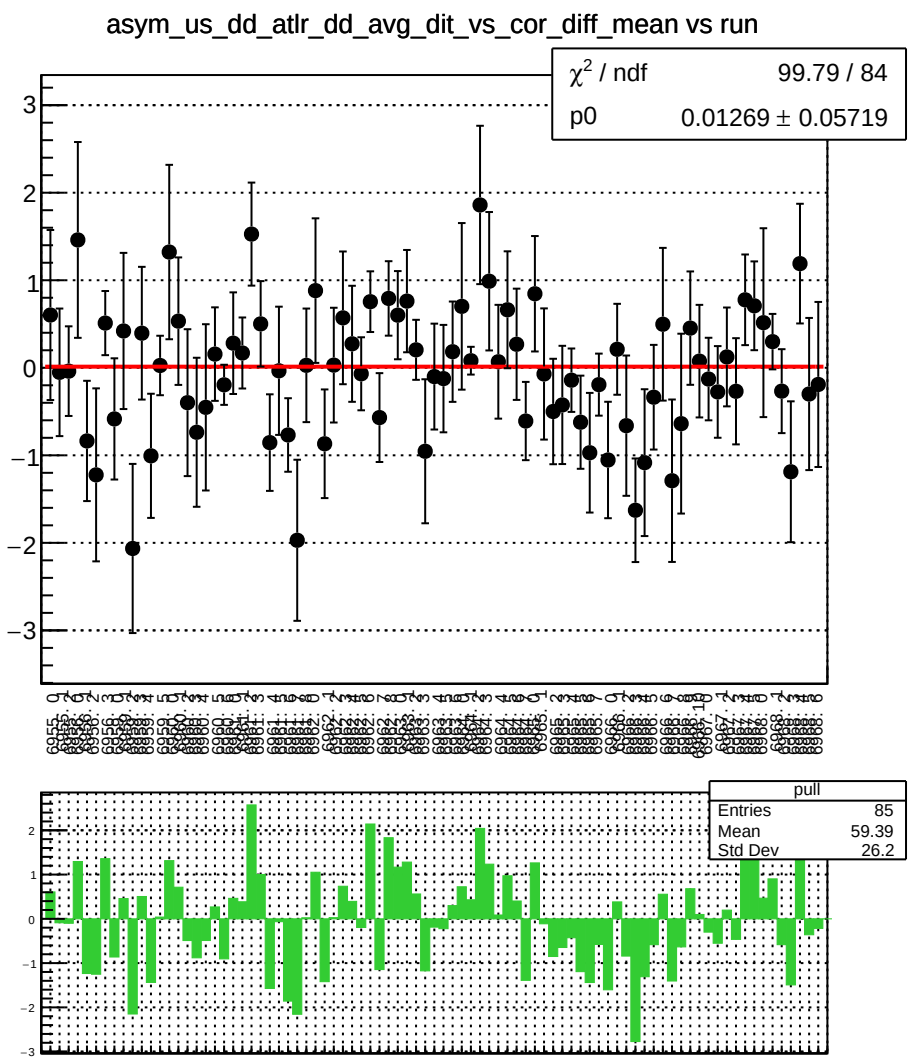

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 100.9 / 84
p0 2746 ± 2184
×10³
pull
Entries 85
Mean −4138
Std Dev 0

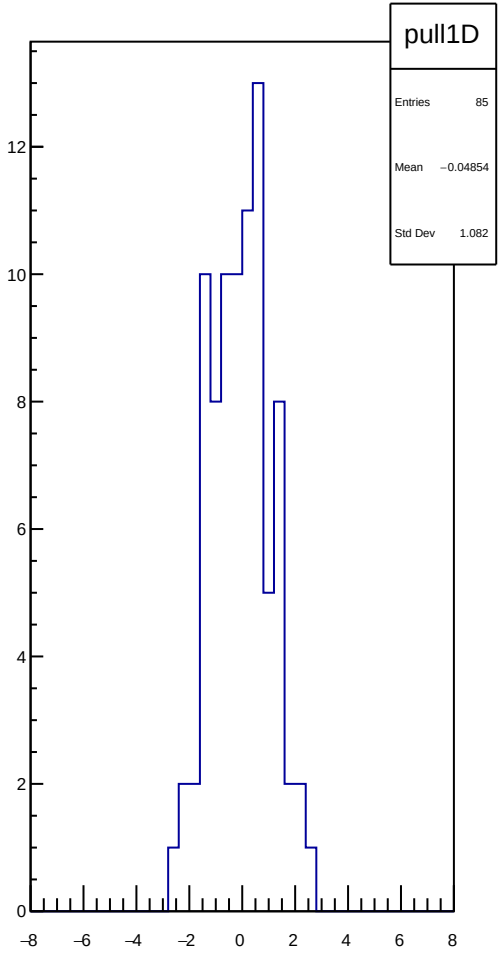

pull1D
Entries 85
Mean −0.001386
Std Dev 1.089

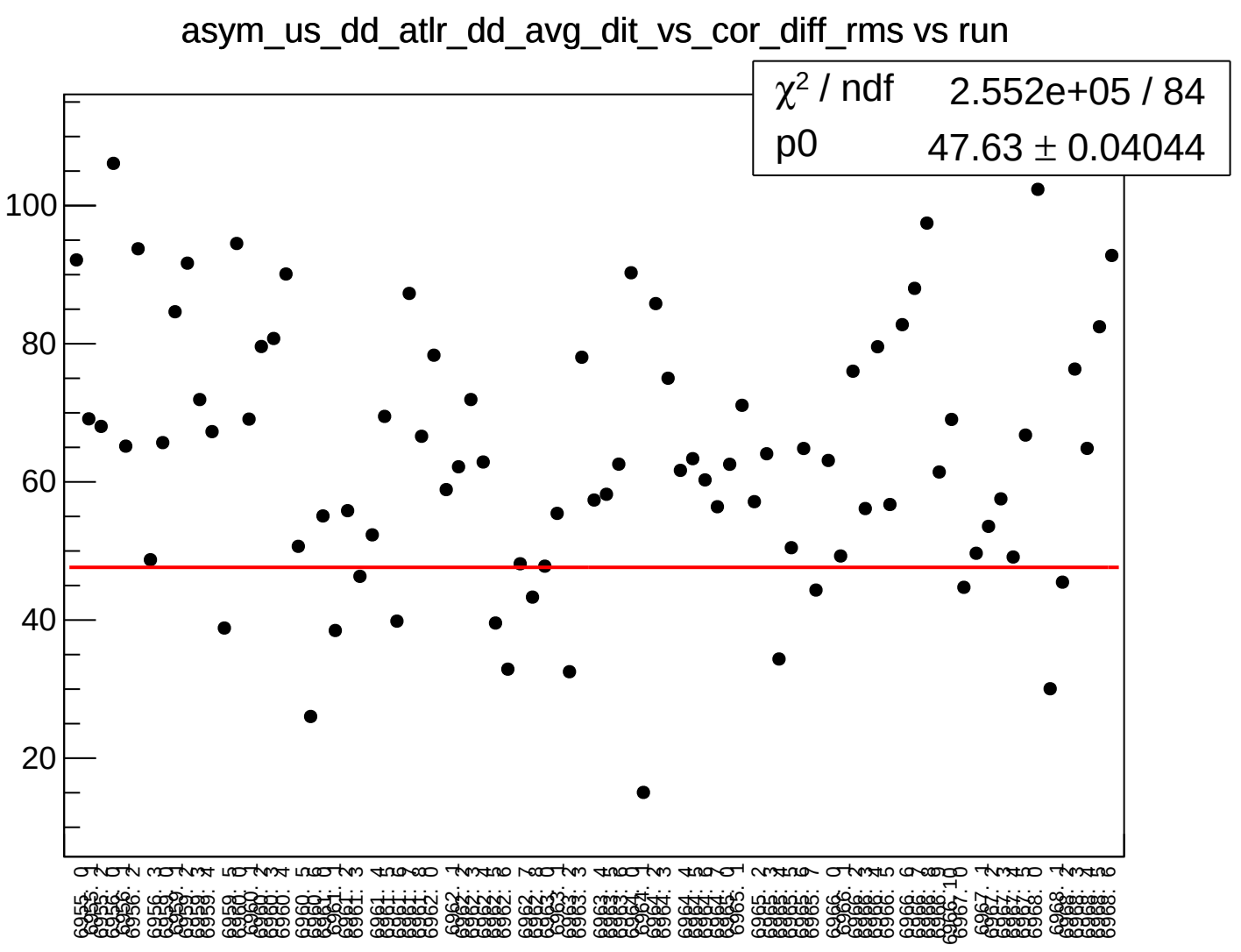

asym_us_dd_atlr_dd_avg_rms vs run
$\chi^2$ / ndf 483.7 / 84
p0 1979 ± 1.544
2100
2050
2000
1950
1900

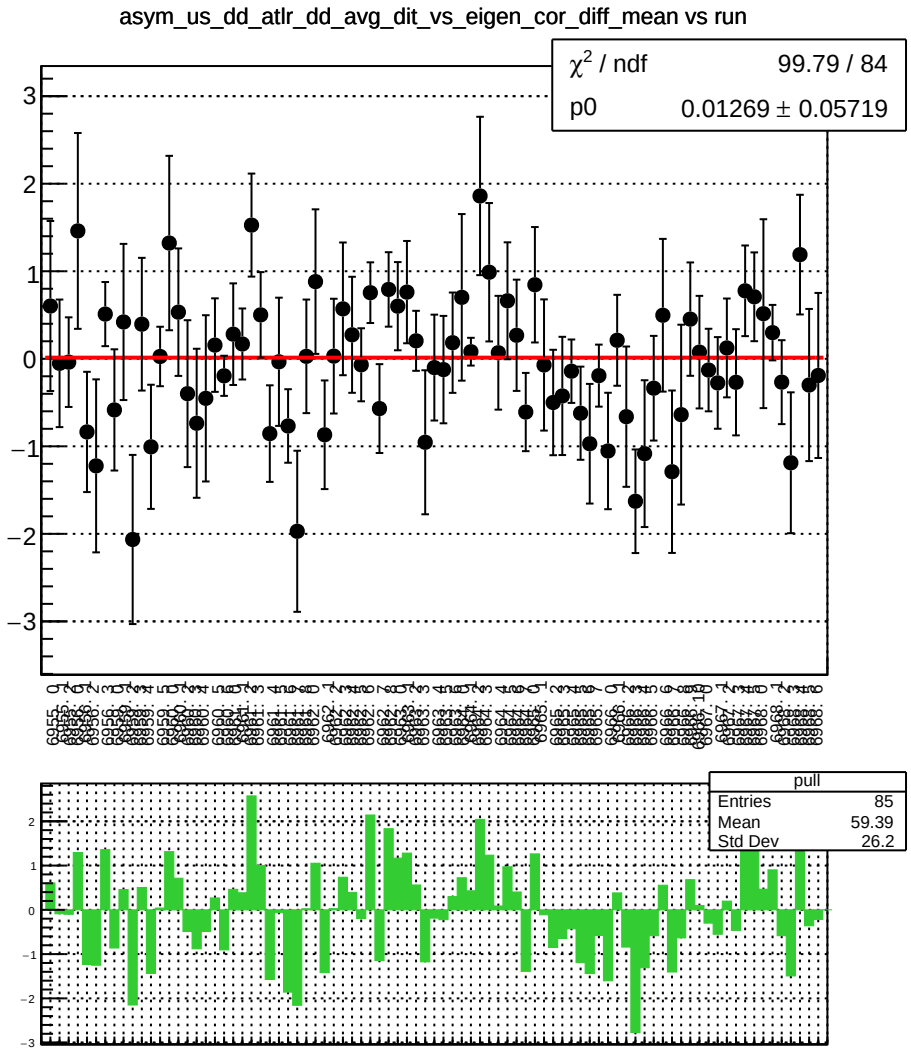

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.18 / 84
p0 −2.631e−14 ± 3.222e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean −30.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean 0.04785
Std Dev 0.9517
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

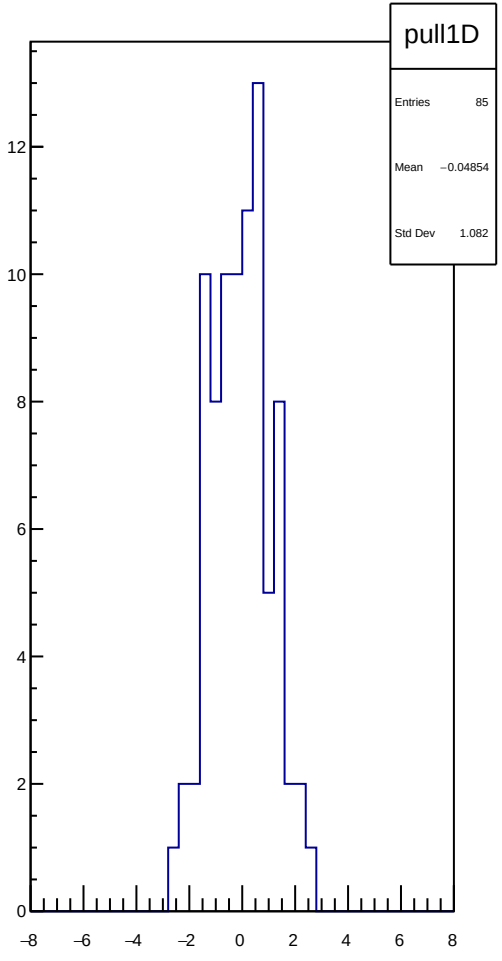

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.341e+06 / 84
p0 1.25e−11 ± 2.278e−14
1.2
1
0.8
0.6
0.4
0.2
0

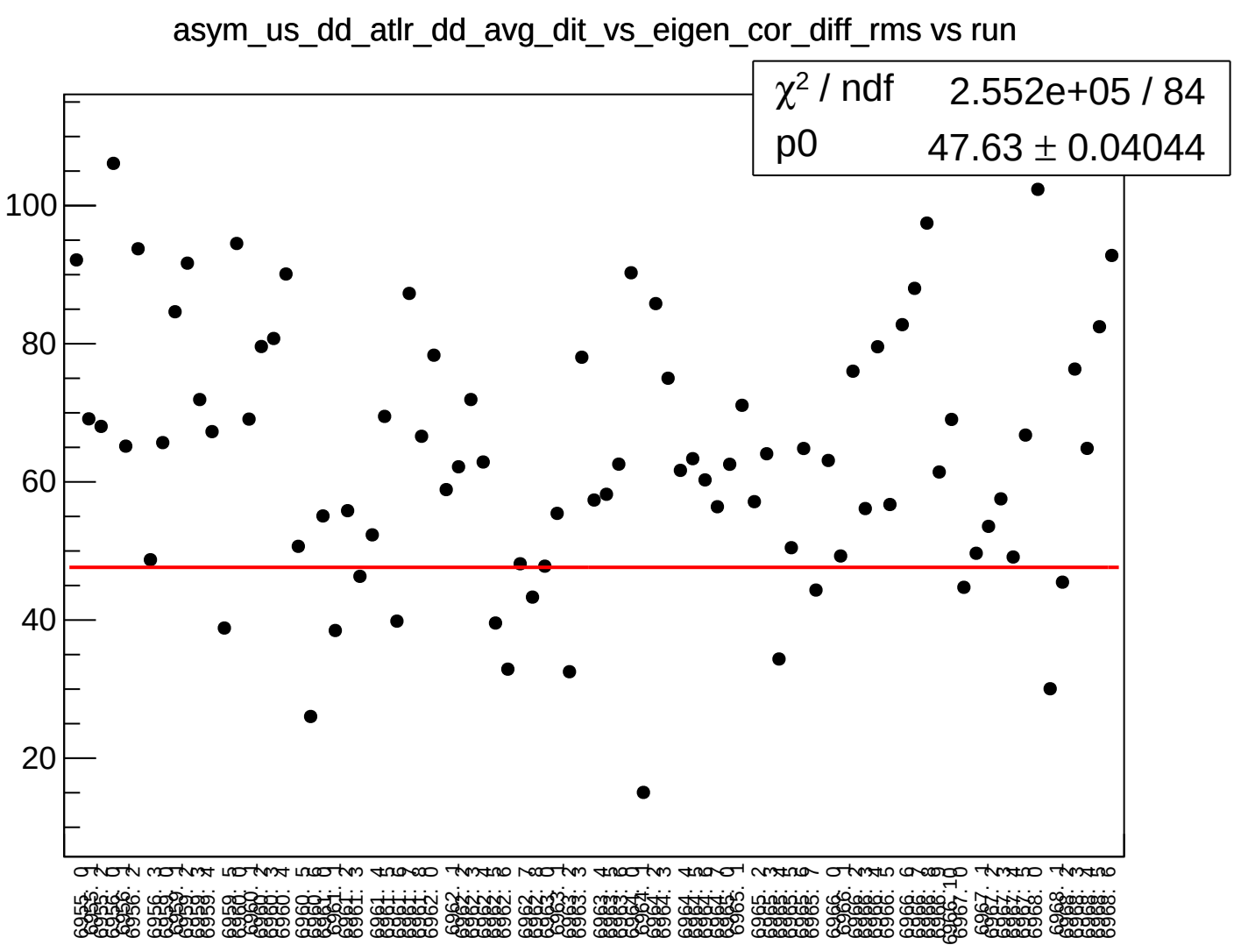

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.79 / 84
p0 0.01269 ± 0.05719
pull
Entries 85
Mean 59.39
Std Dev 26.2

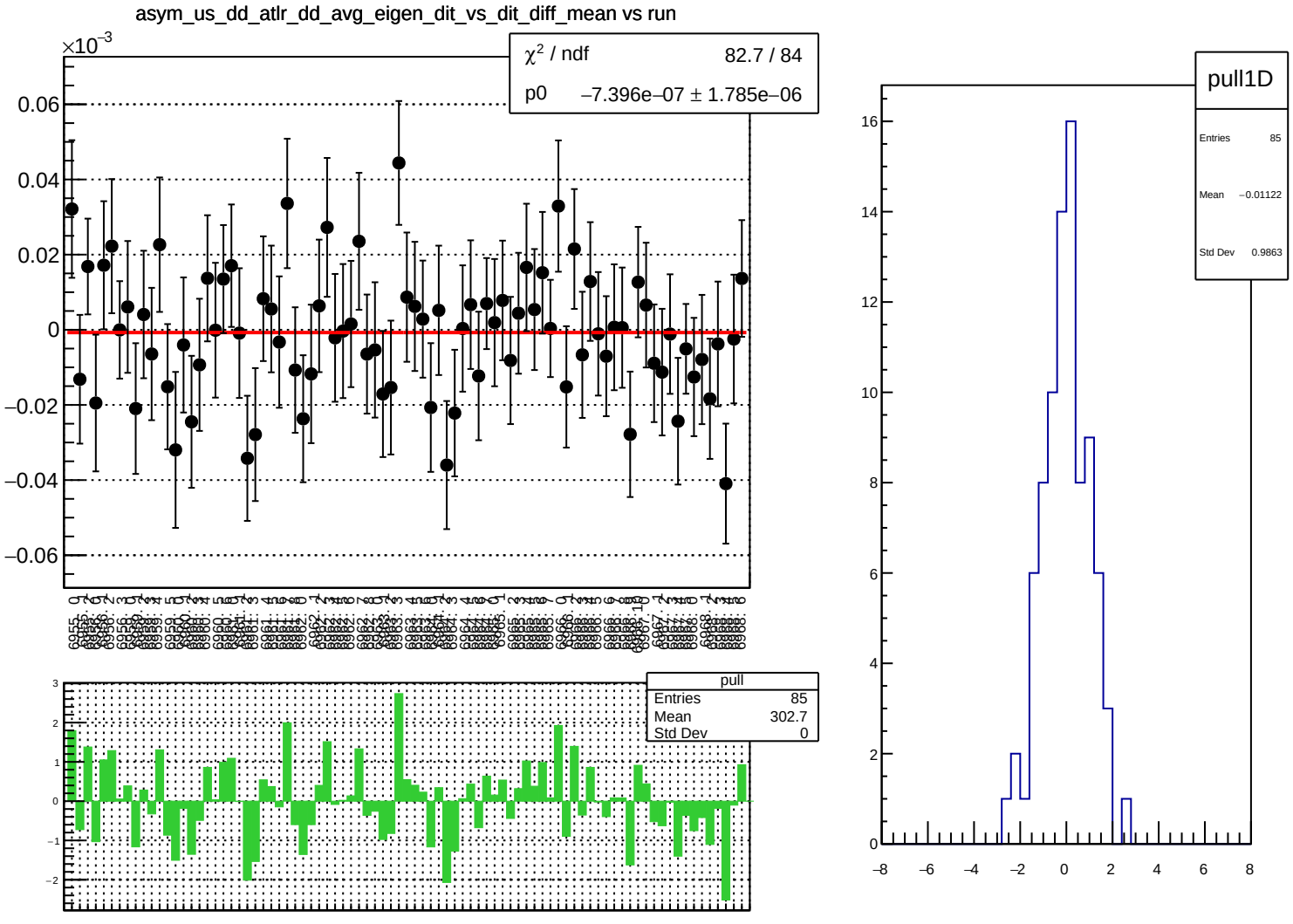

pull1D
Entries 85
Mean −0.04854
Std Dev 1.082

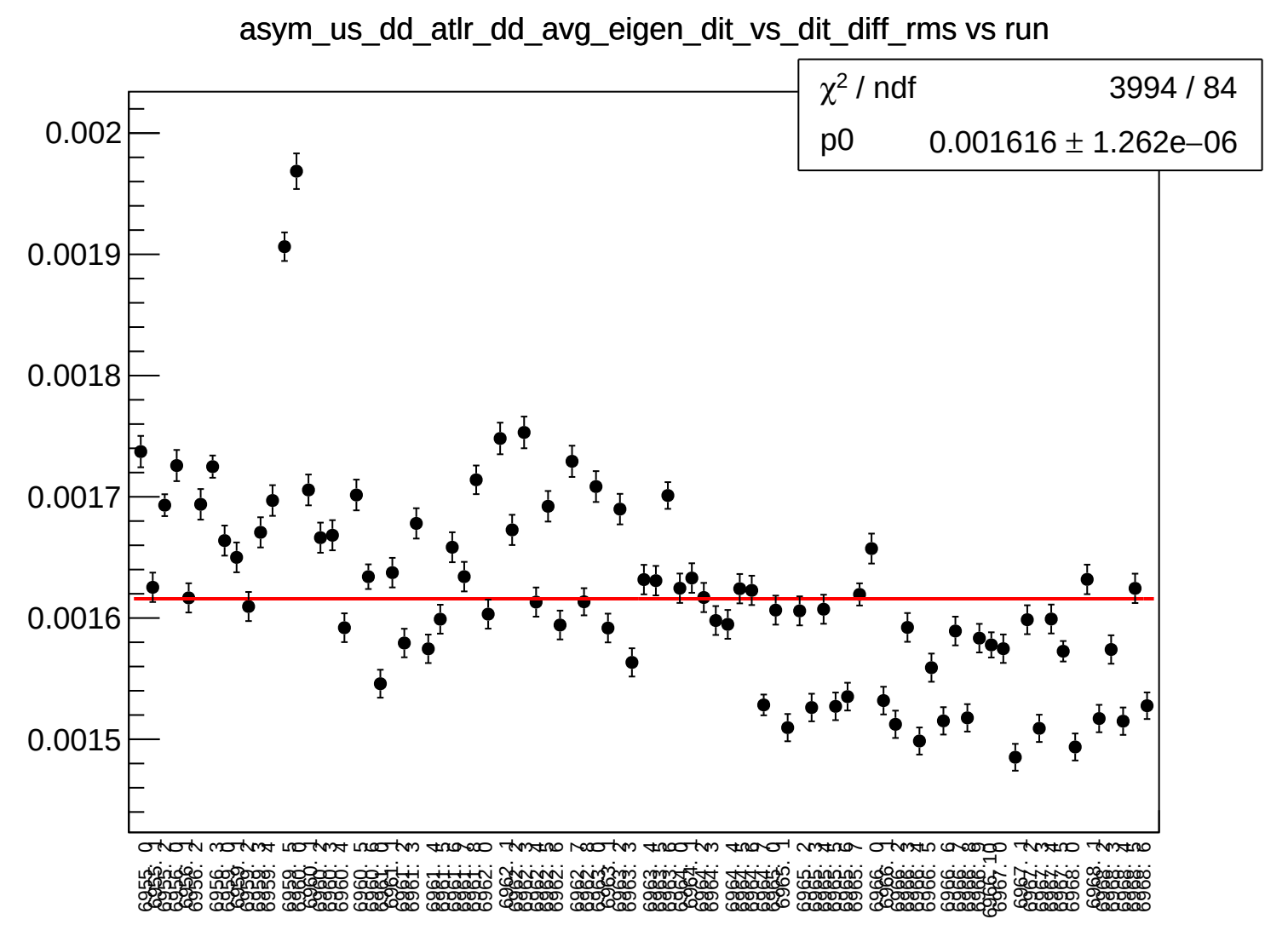

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.552e+05 / 84
p0 47.63 ± 0.04044
100
80
60
40
20

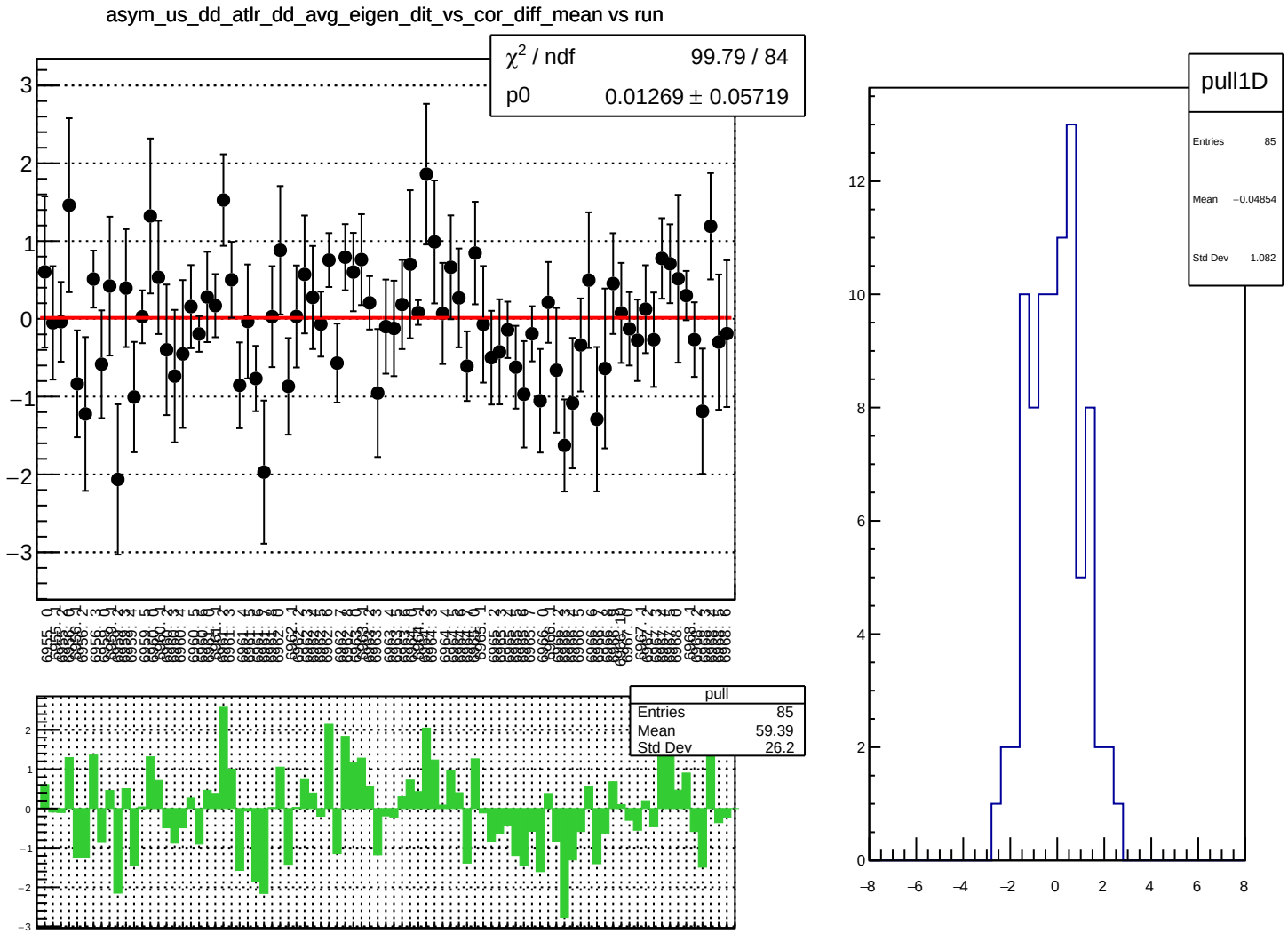

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.79 / 84
p0 0.01269 ± 0.05719
pull
Entries 85
Mean 59.39
Std Dev 26.2

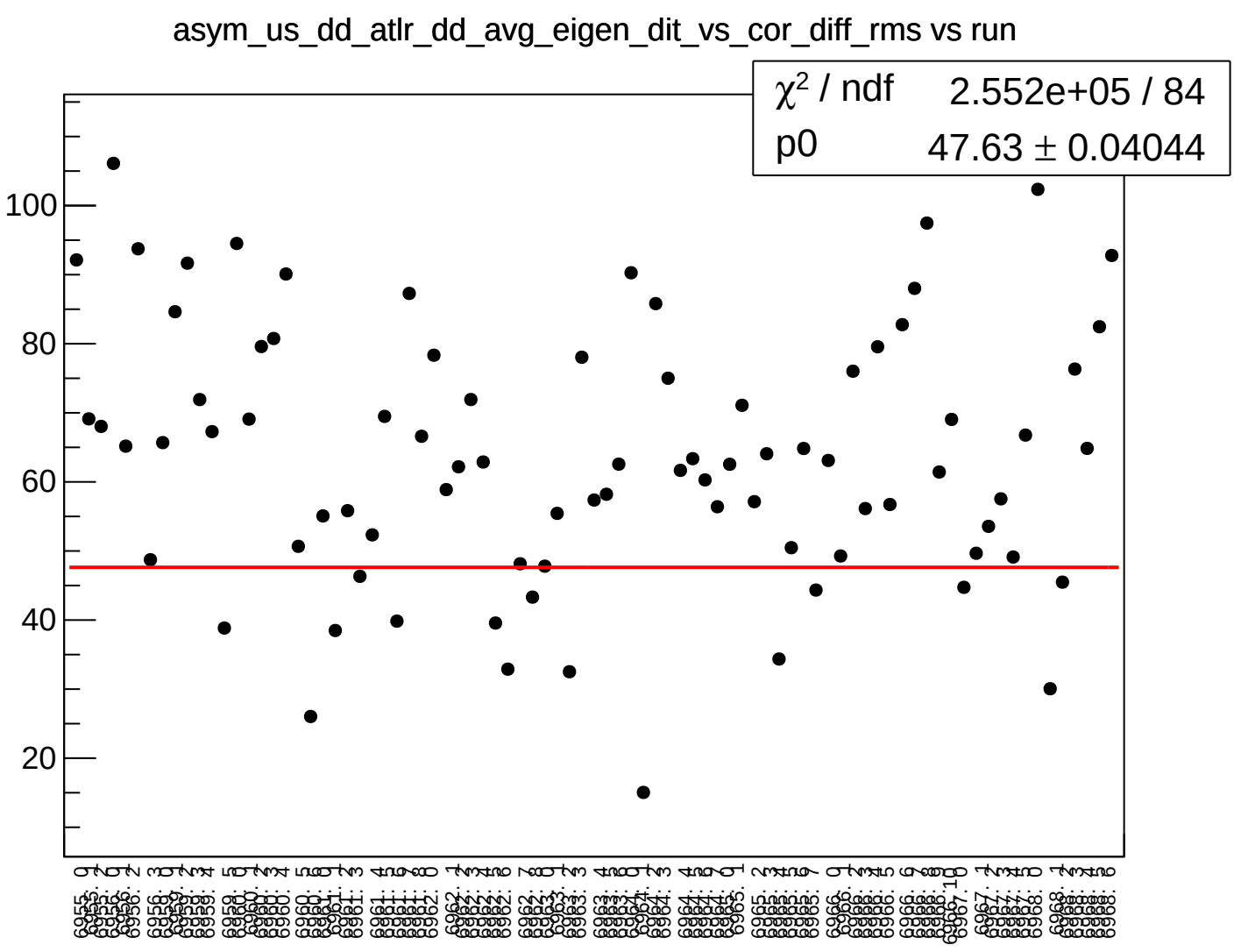

pull1D
Entries 85
Mean −0.04854
Std Dev 1.082

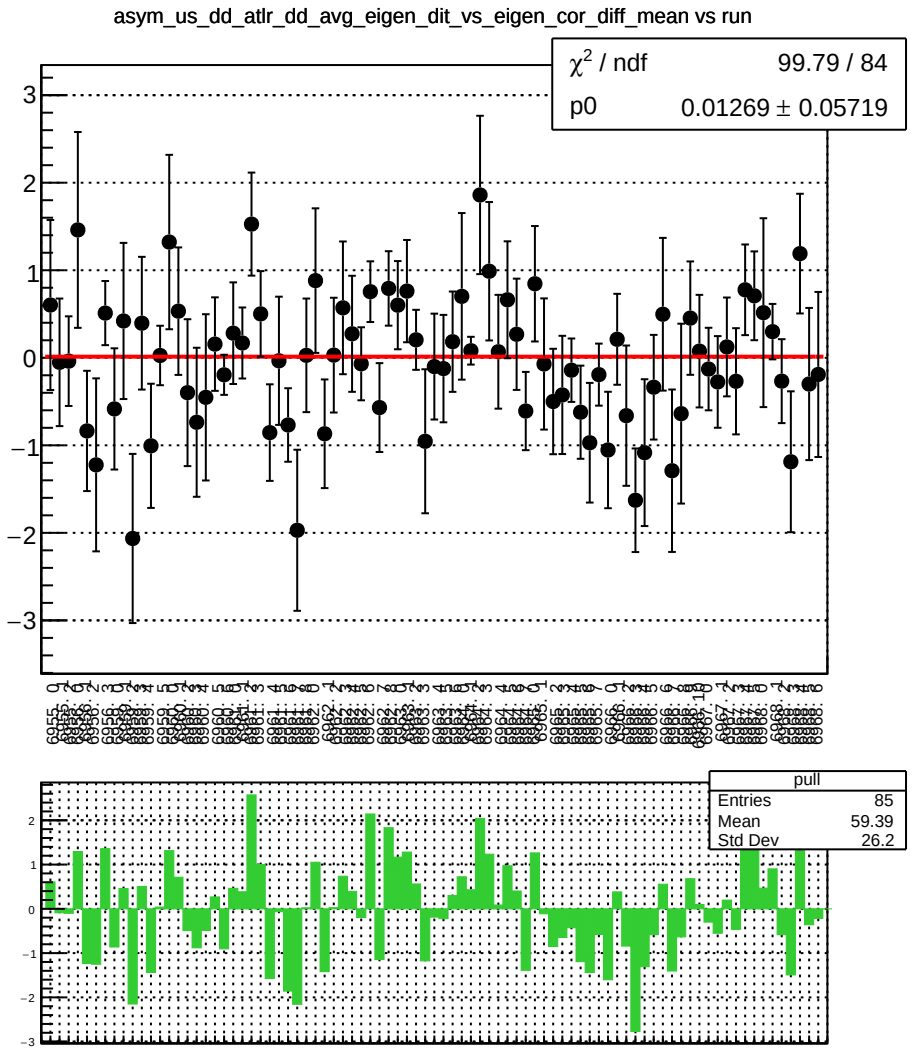

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.552e+05 / 84
p0 47.63 ± 0.04044
100
80
60
40
20

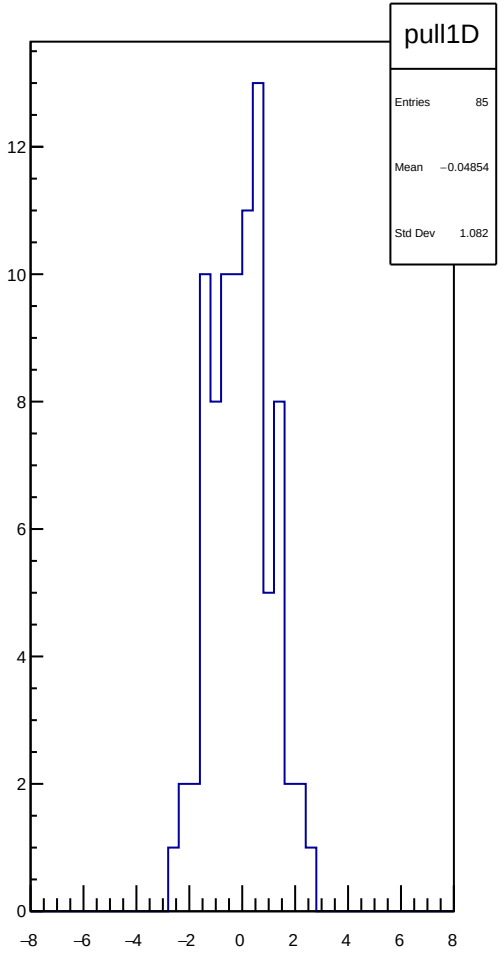

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.7 / 84
p0 −7.396e−07 ± 1.785e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 85
Mean 302.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01122
Std Dev 0.9863
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

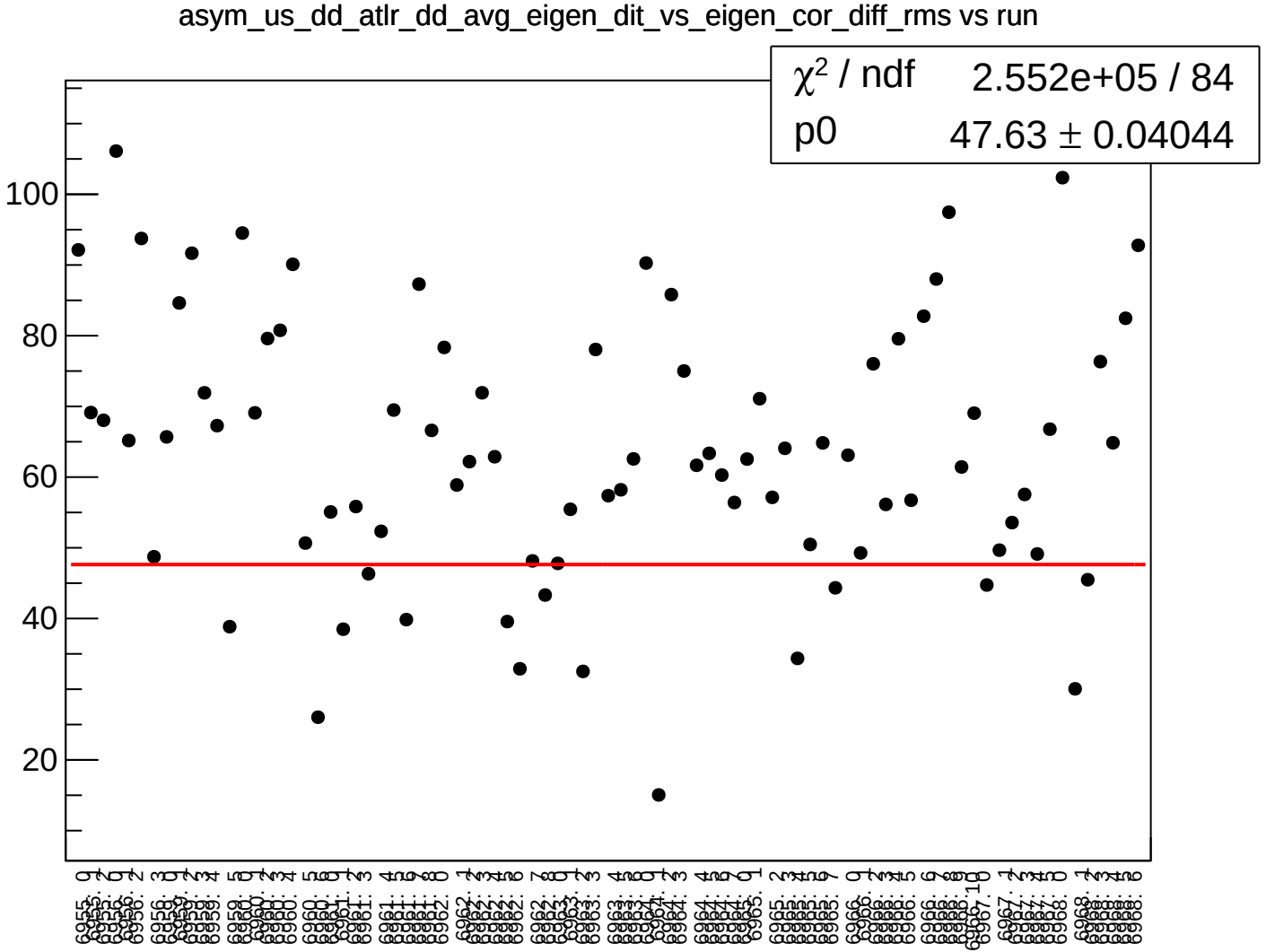

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3994 / 84
p0 0.001616 ± 1.262e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

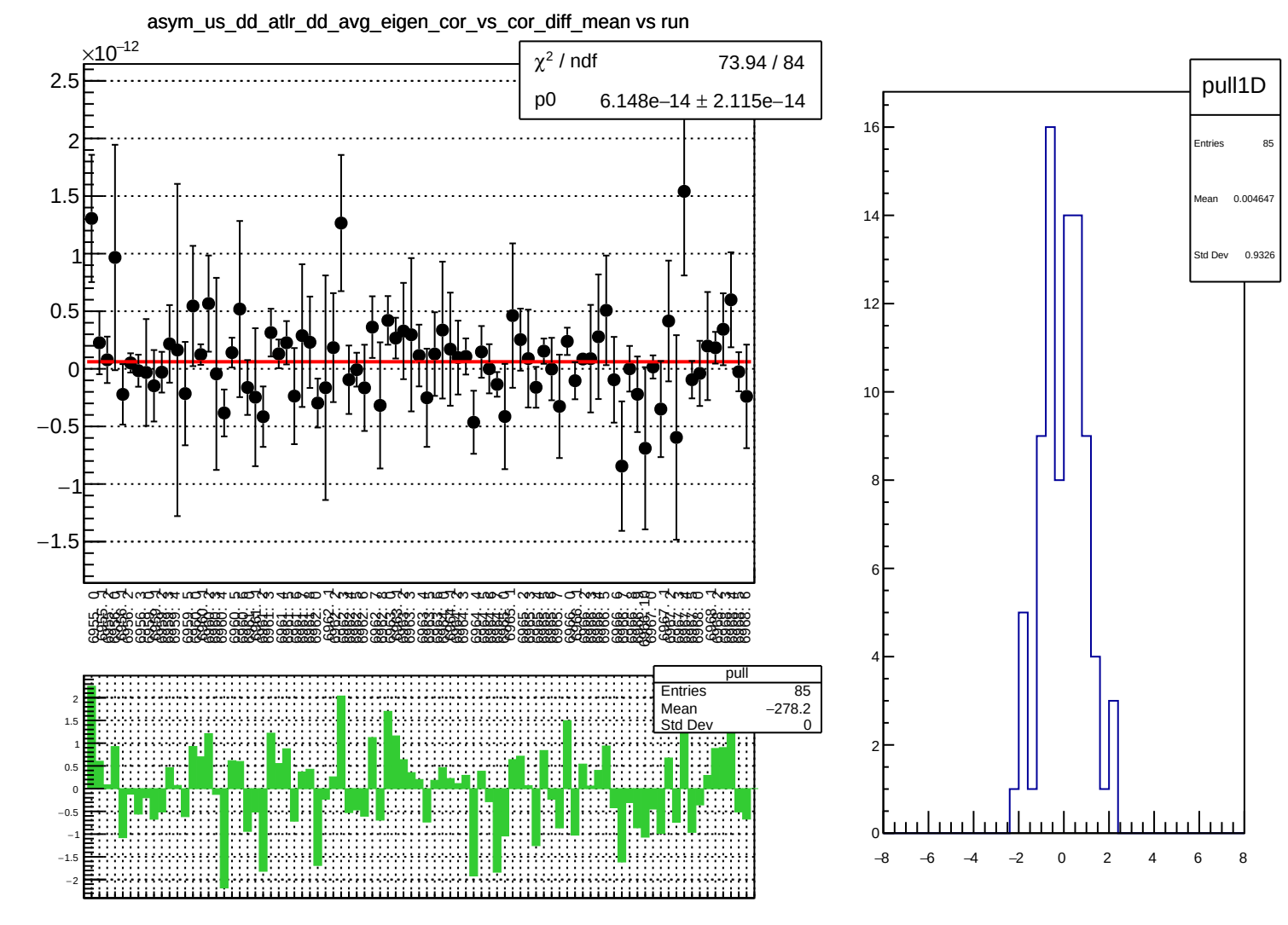

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.79 / 84
p0 0.01269 ± 0.05719
pull
Entries 85
Mean 59.39
Std Dev 26.2
pull1D
Entries 85
Mean −0.04854
Std Dev 1.082

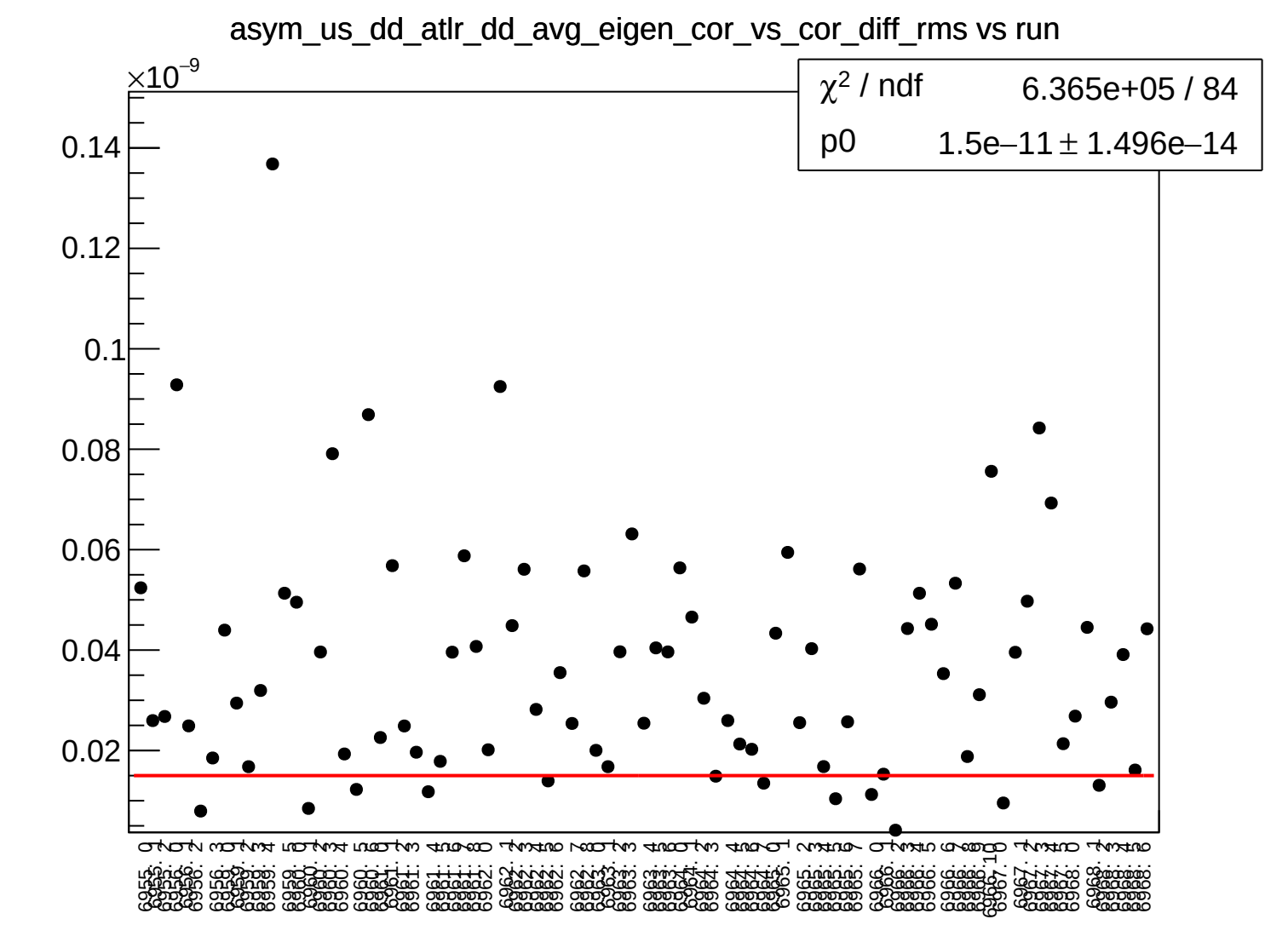

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.552e+05 / 84
p0 47.63 ± 0.04044
100
80
60
40
20

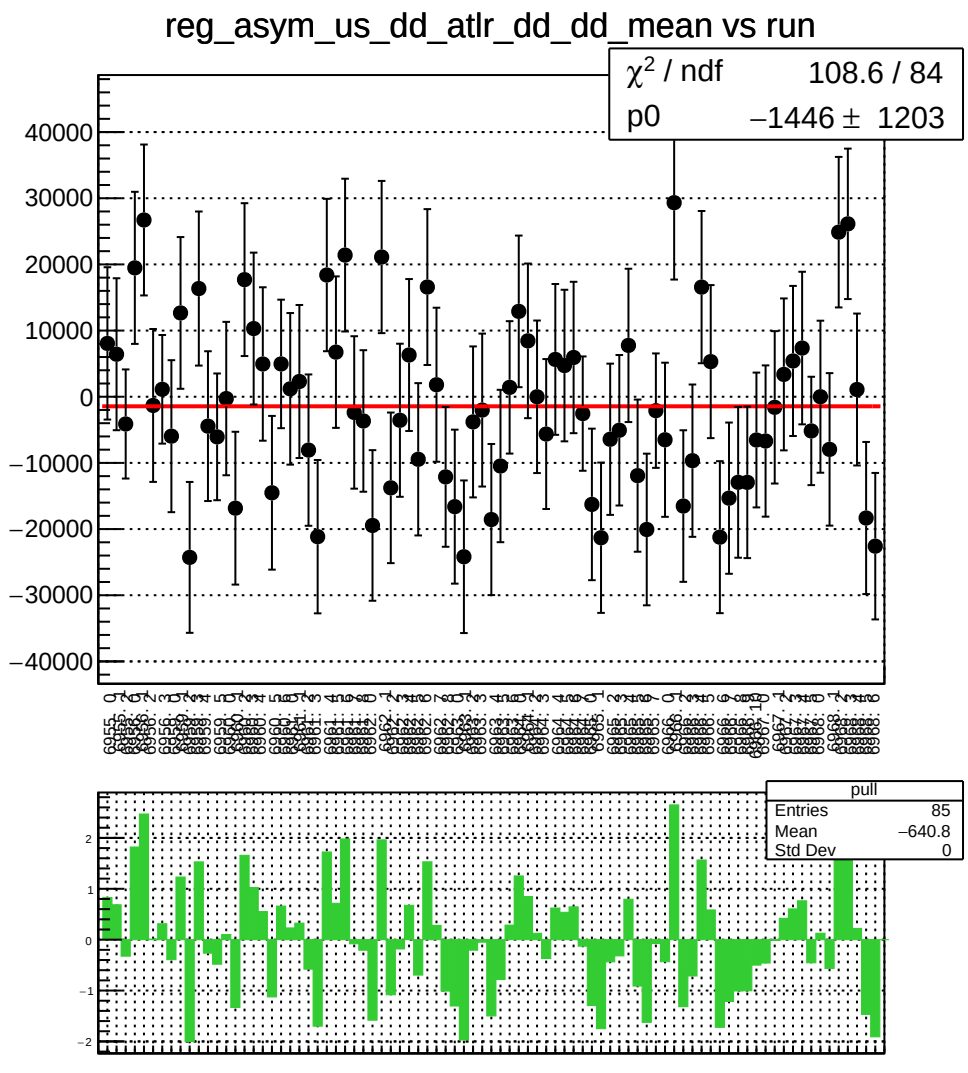

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.79 / 84
p0 0.01269 ± 0.05719
pull
Entries 85
Mean 59.39
Std Dev 26.2

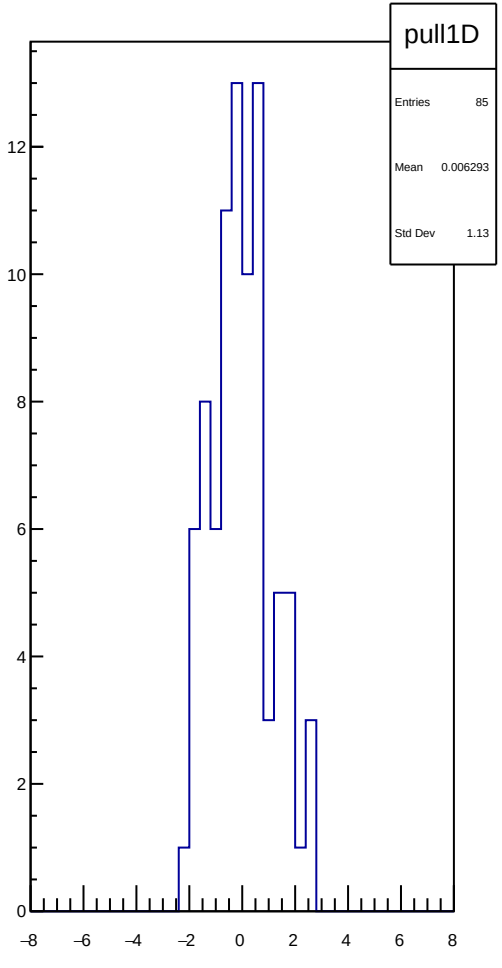

pull1D
Entries 85
Mean −0.04854
Std Dev 1.082

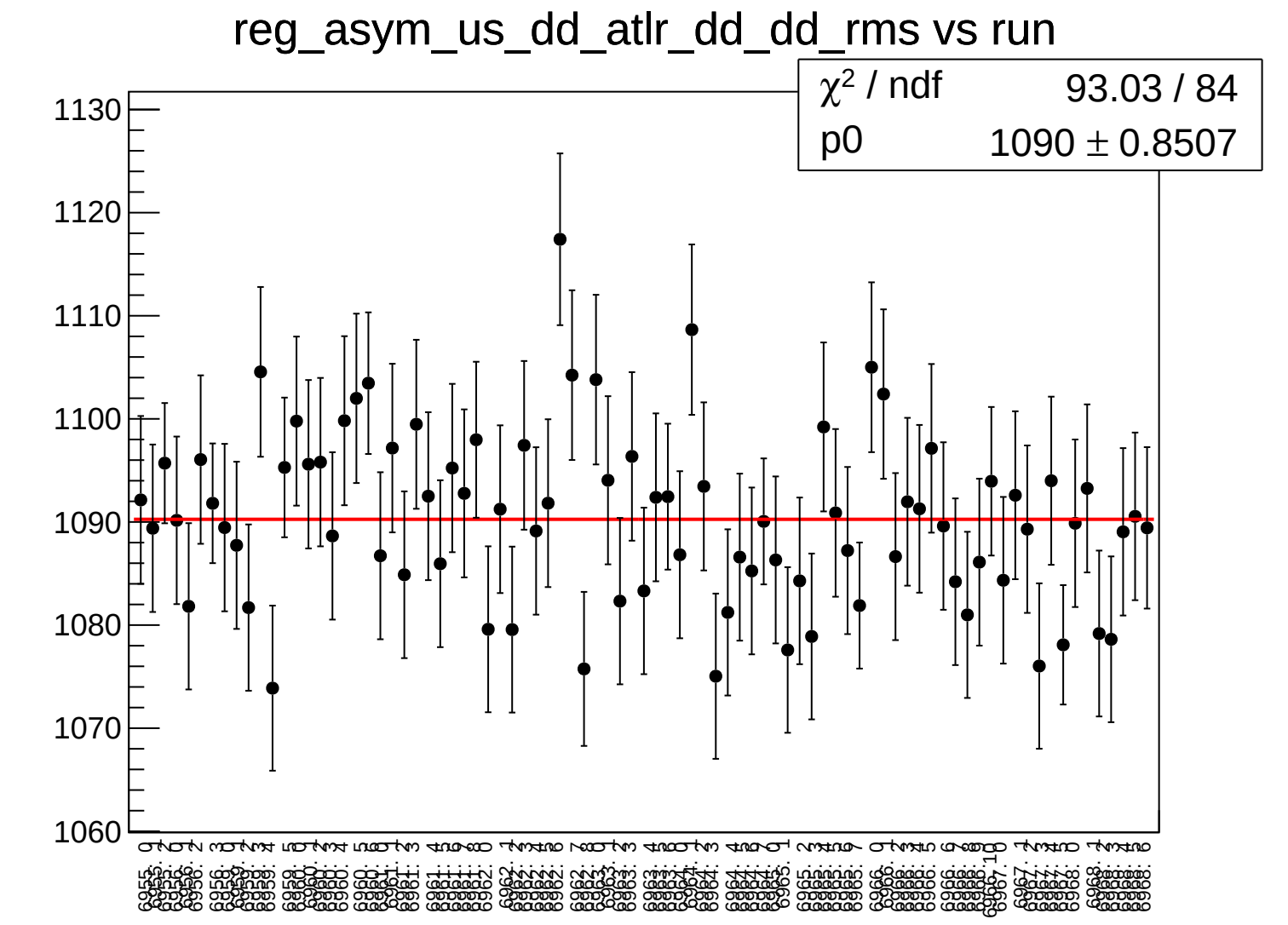

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.552e+05 / 84
p0 47.63 ± 0.04044
100
80
60
40
20

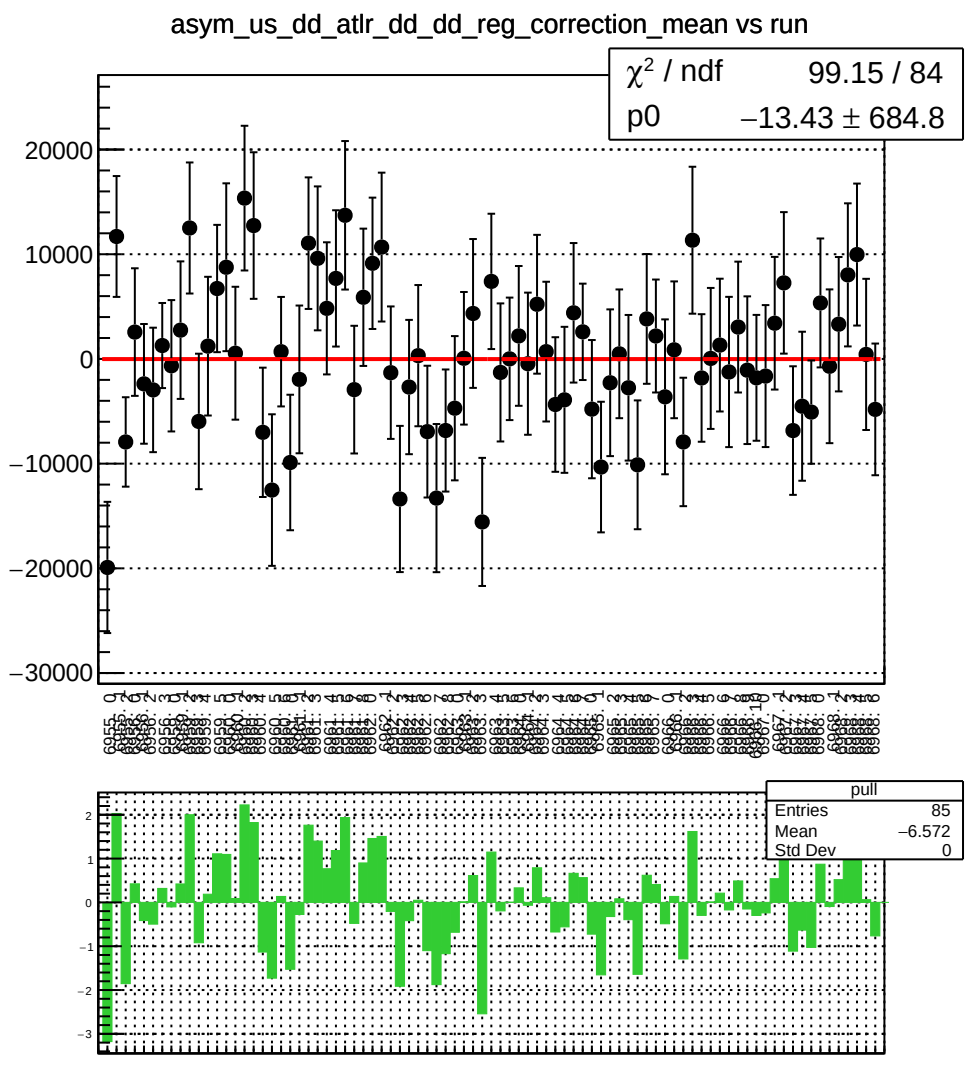

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.94 / 84
p0 6.148e−14 ± 2.115e−14
pull
Entries 85
Mean −278.2
Std Dev 0
pull1D
Entries 85
Mean 0.004647
Std Dev 0.9326

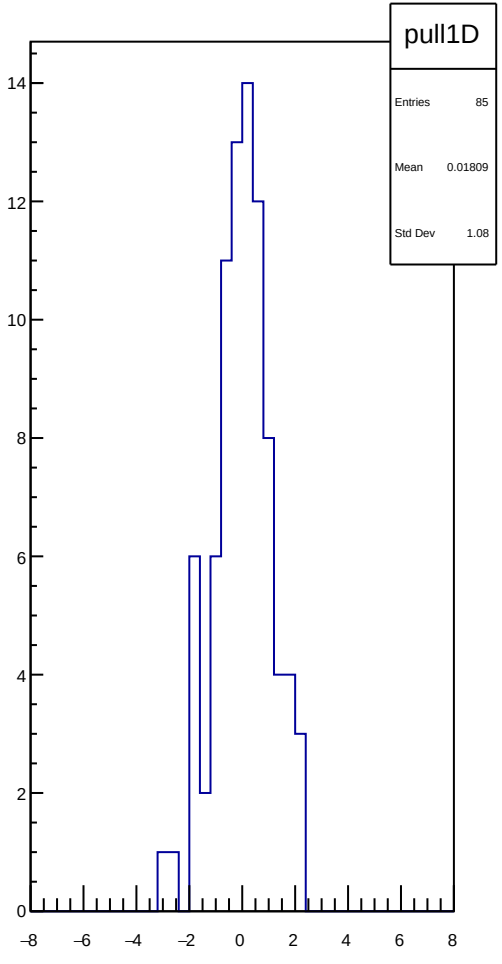

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.365e+05 / 84
p0 1.5e−11 ± 1.496e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

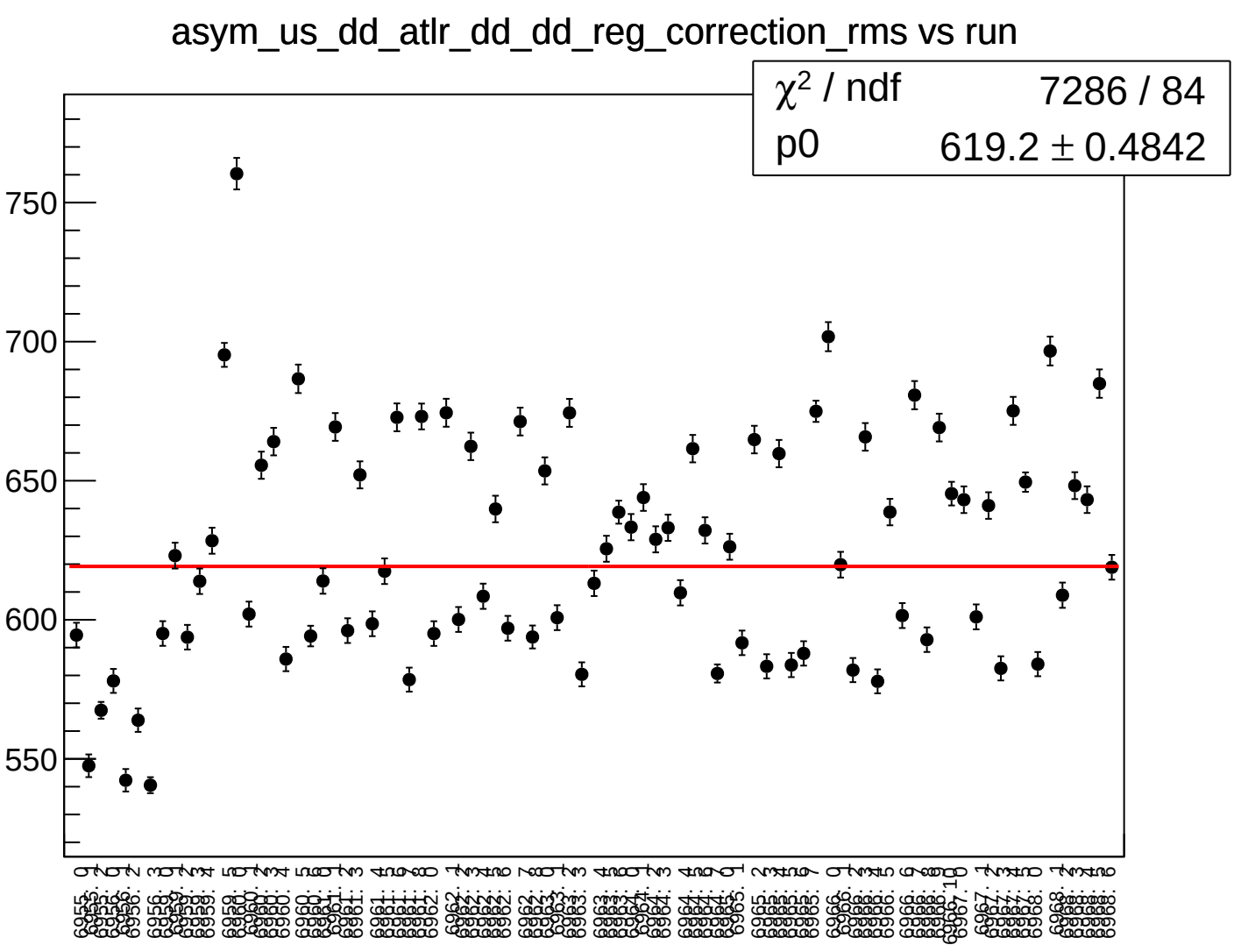

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 108.6 / 84
p0 −1446 ± 1203
pull
Entries 85
Mean −640.8
Std Dev 0

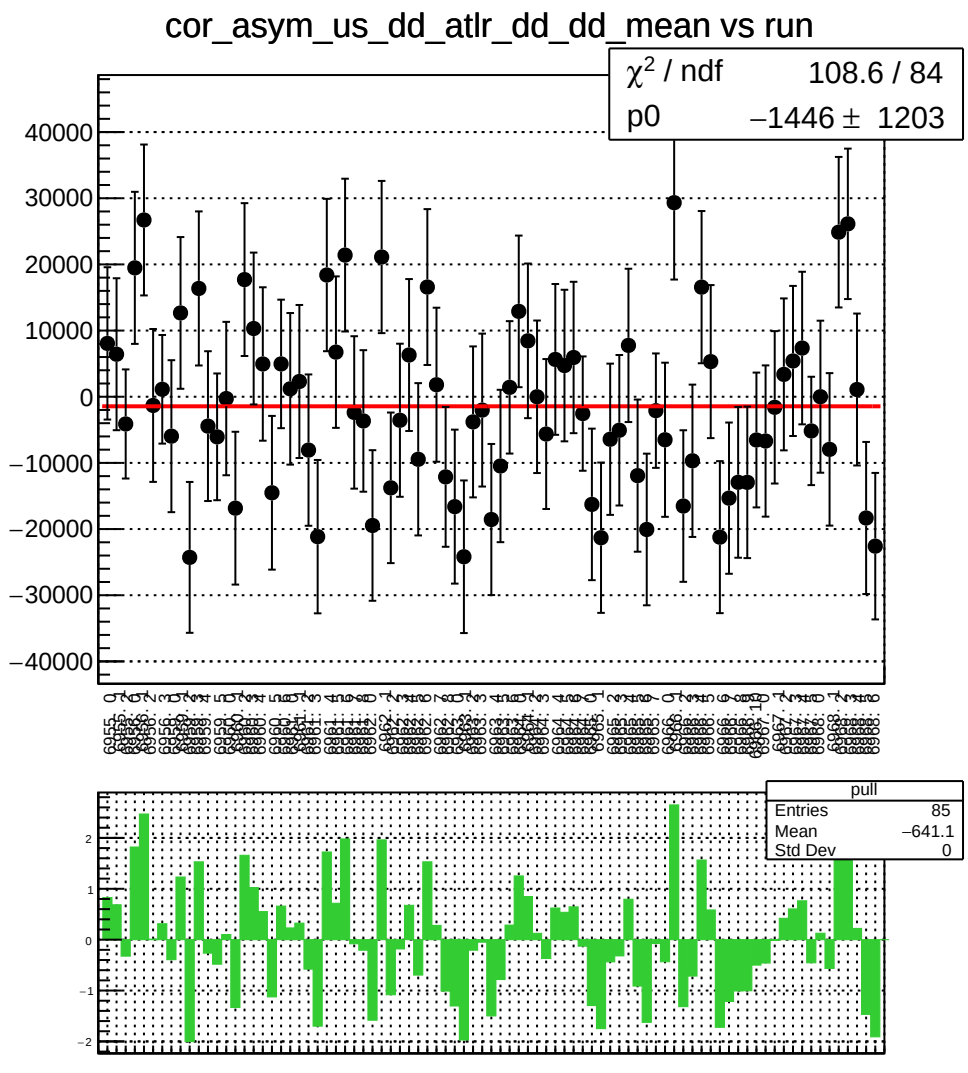

pull1D
Entries 85
Mean 0.006293
Std Dev 1.13

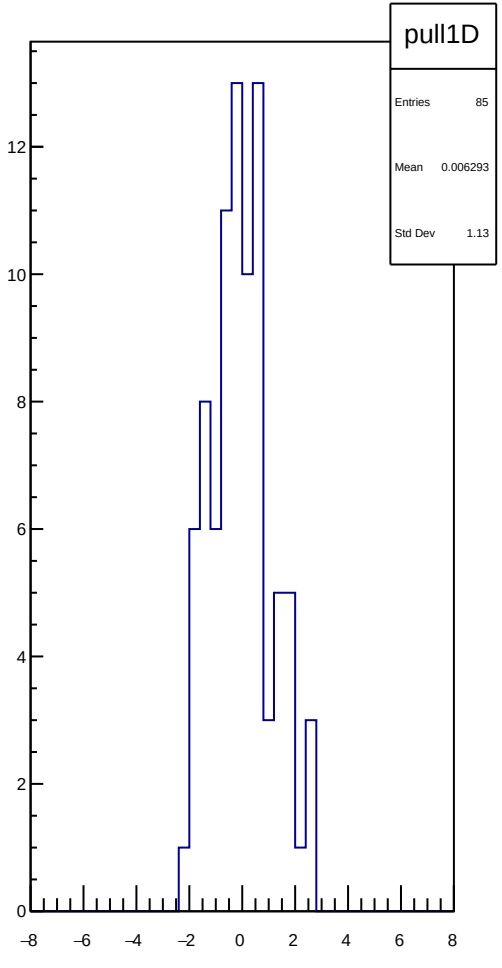

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 93.03 / 84
p0 1090 ± 0.8507
1130
1120
1110
1100
1090
1080
1070
1060

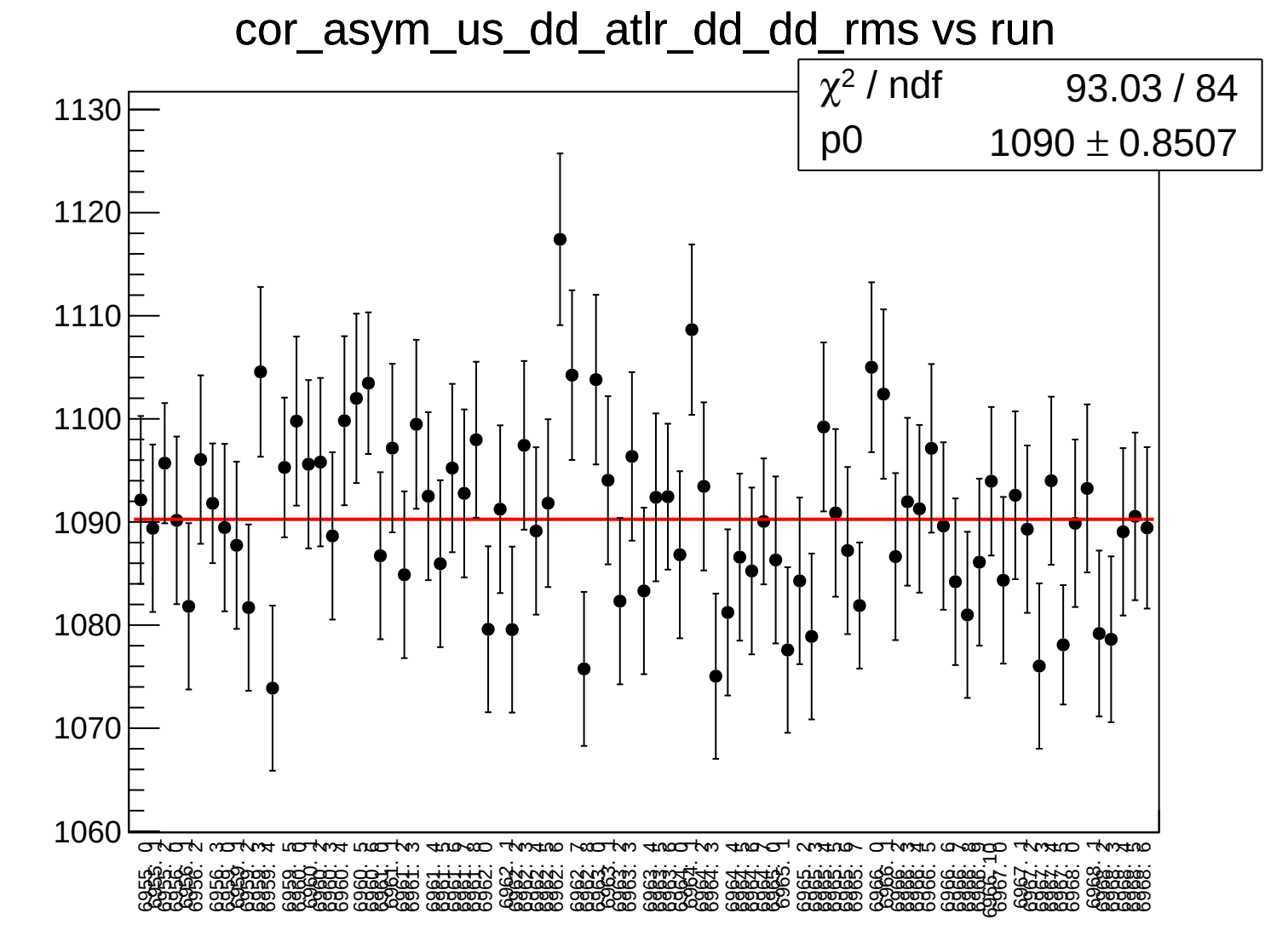

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 99.15 / 84
p0 −13.43 ± 684.8
pull
Entries 85
Mean −6.572
Std Dev 0

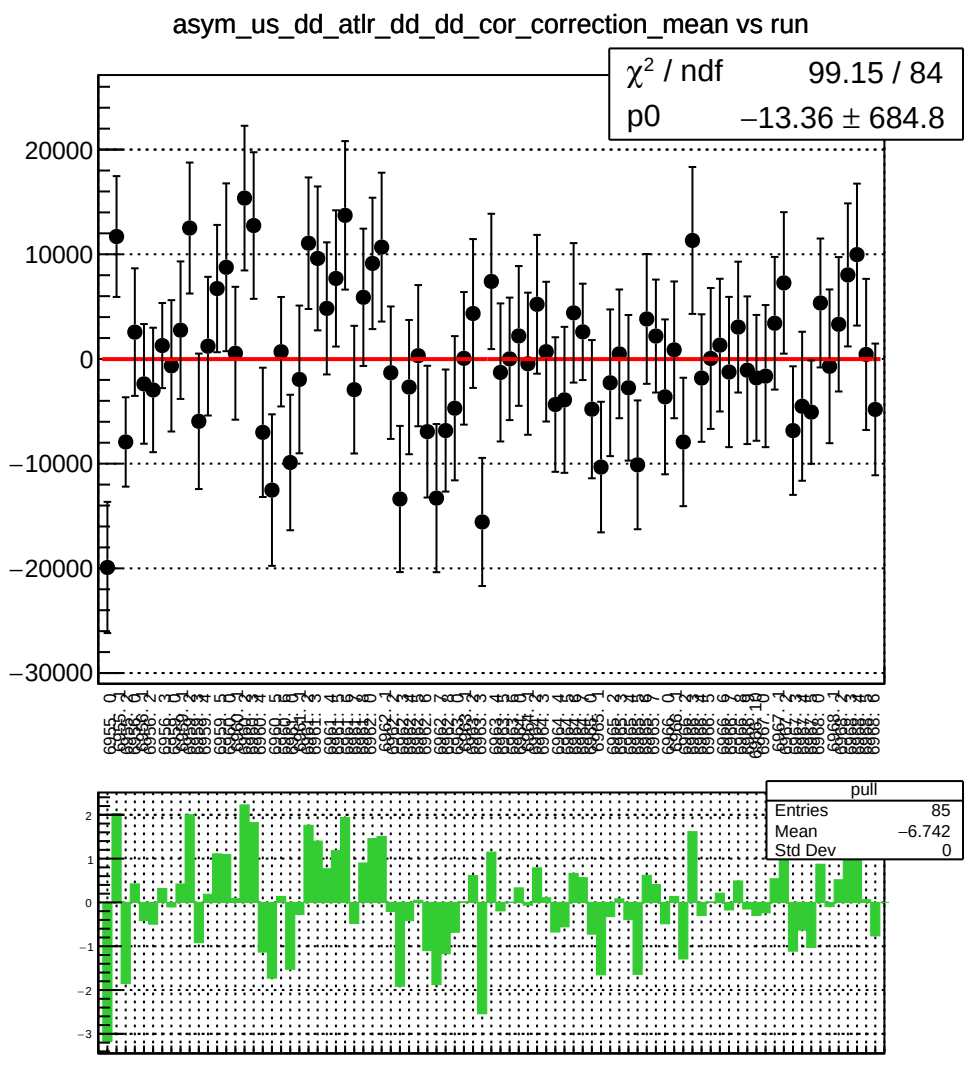

pull1D
Entries 85
Mean 0.01809
Std Dev 1.08

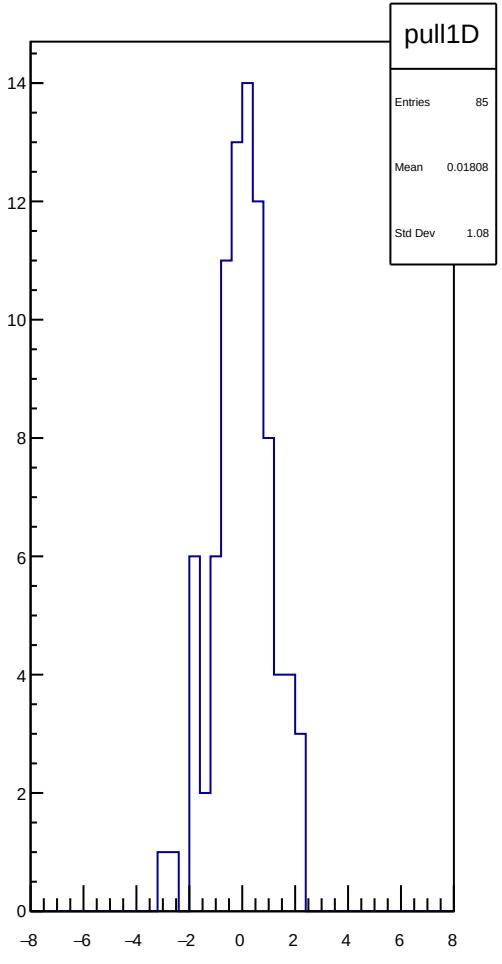

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 7286 / 84
p0 619.2 ± 0.4842
750
700
650
600
550

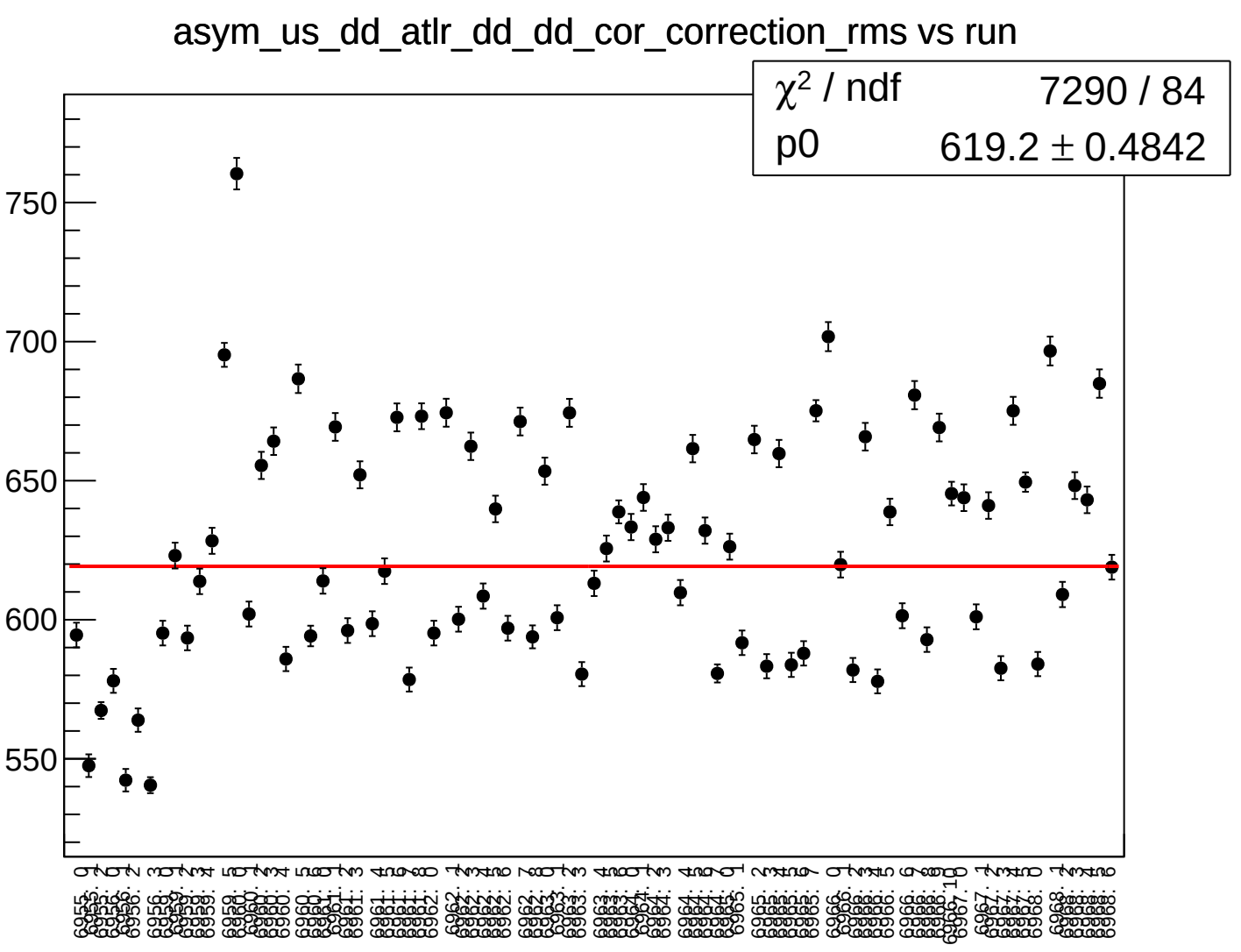

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 108.6 / 84
p0 −1446 ± 1203
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean −641.1
Std Dev 0
2
1
0
−1
−2

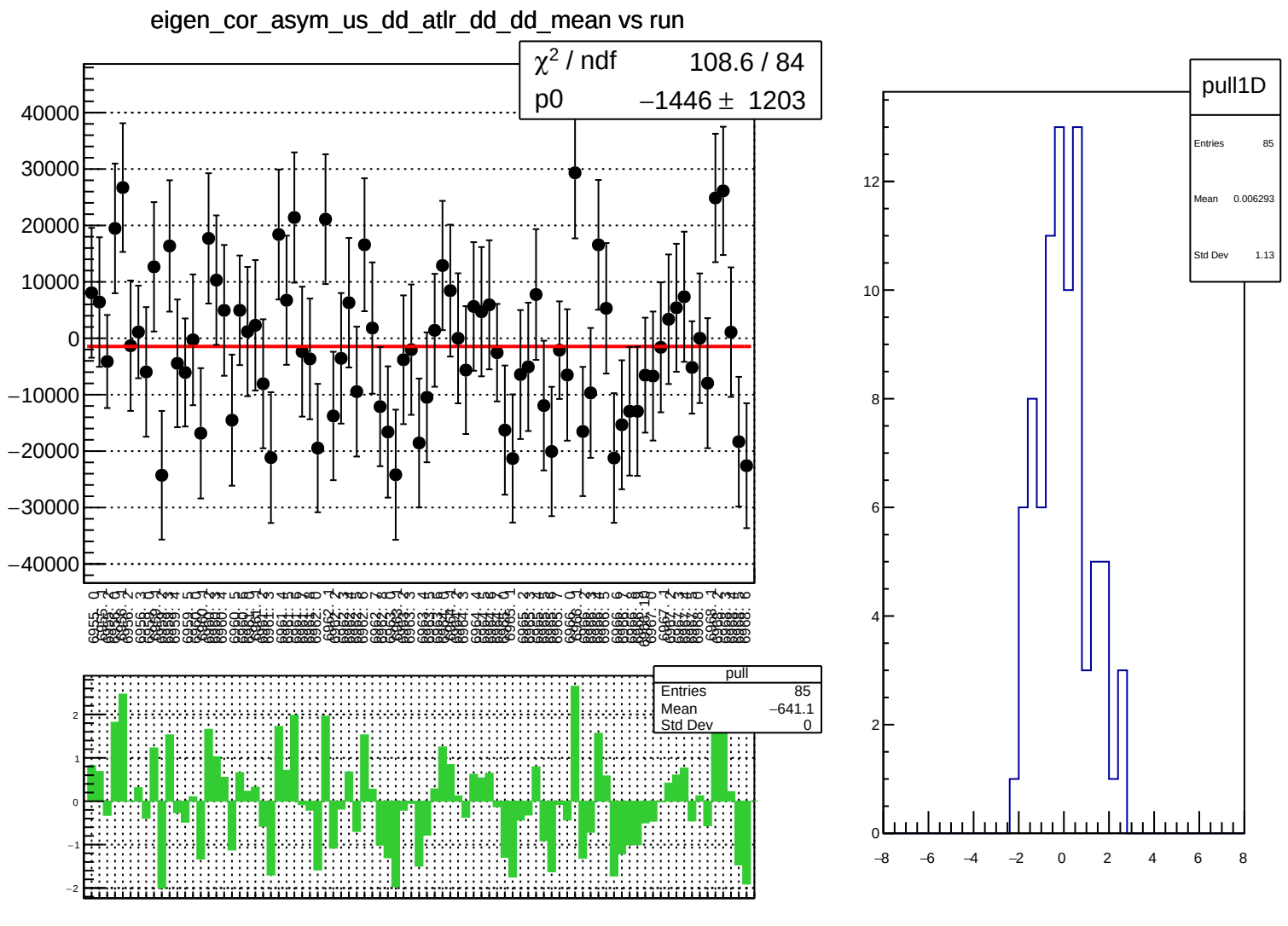

pull1D
Entries 85
Mean 0.006293
Std Dev 1.13
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

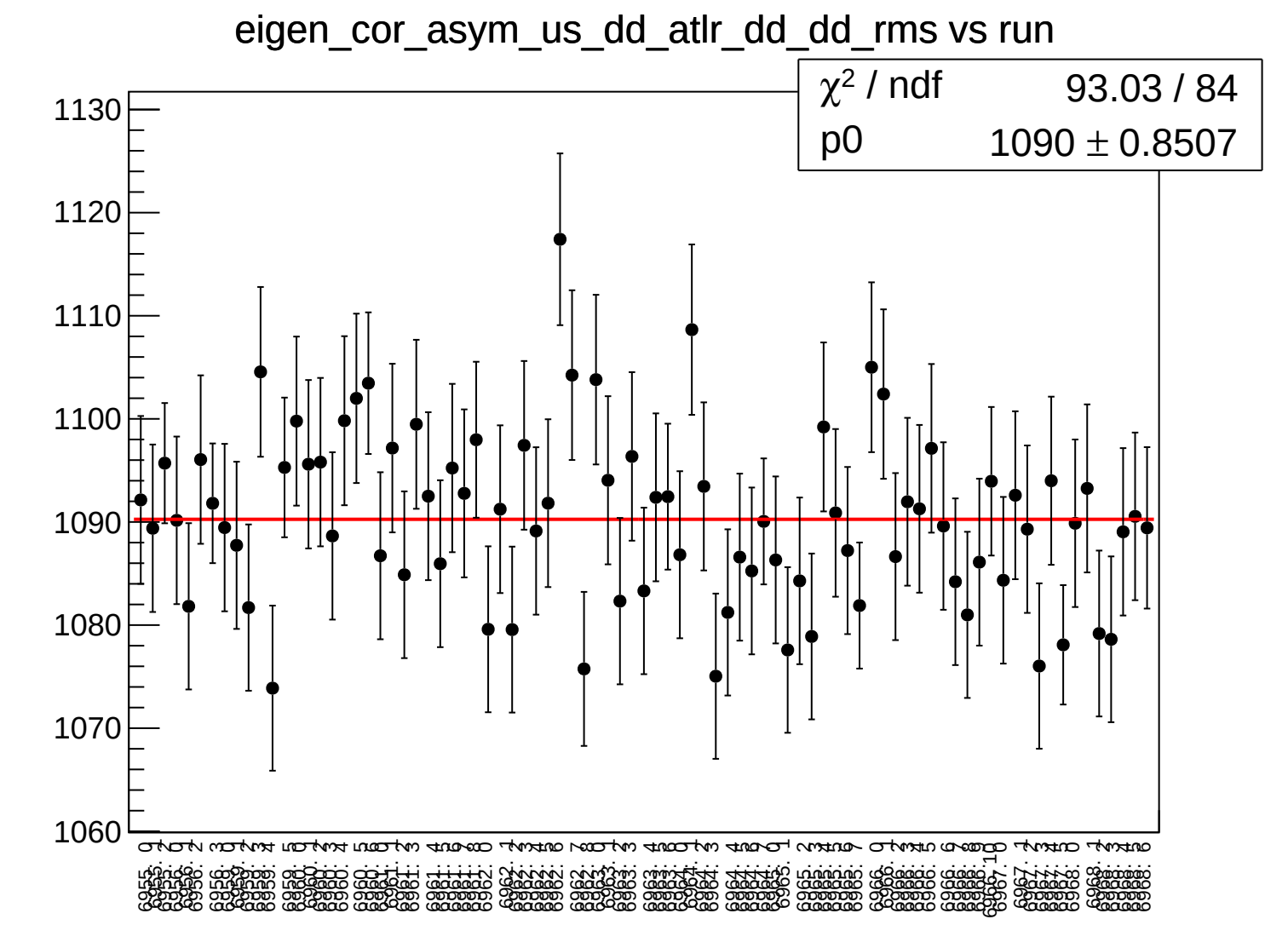

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 93.03 / 84
p0 1090 ± 0.8507
1130
1120
1110
1100
1090
1080
1070
1060

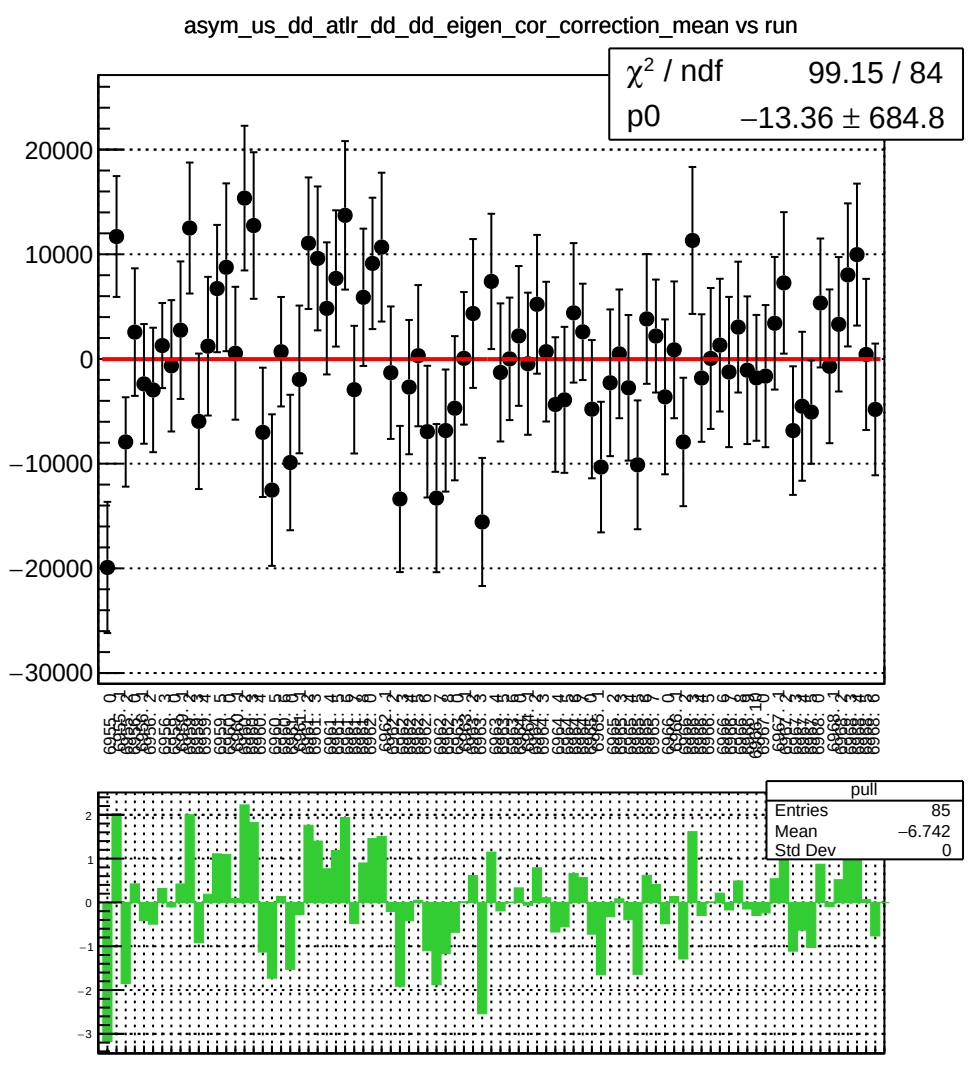

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 99.15 / 84
p0 −13.36 ± 684.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −6.742
Std Dev 0
2
1
0
−1
−2
−3

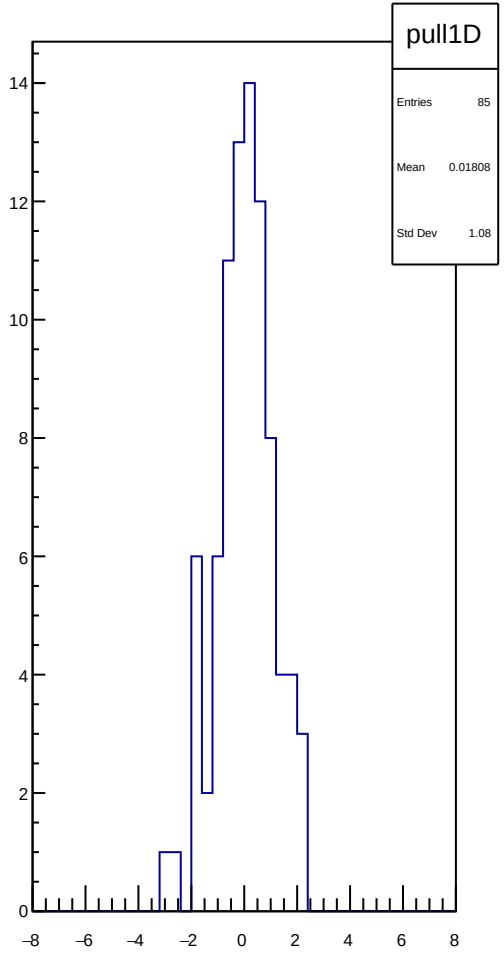

pull1D
Entries 85
Mean 0.01808
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

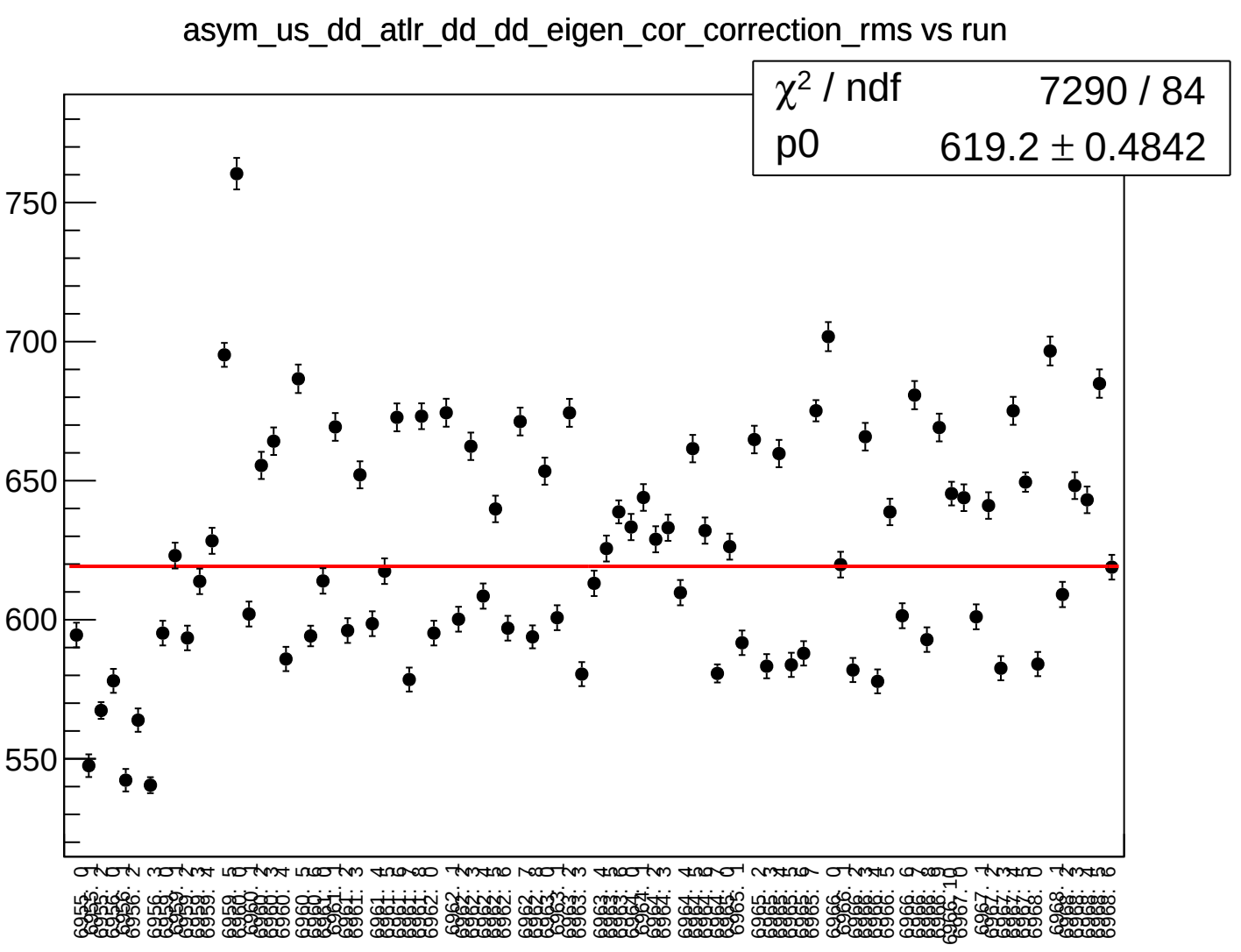

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 7290 / 84
p0 619.2 ± 0.4842
750
700
650
600
550

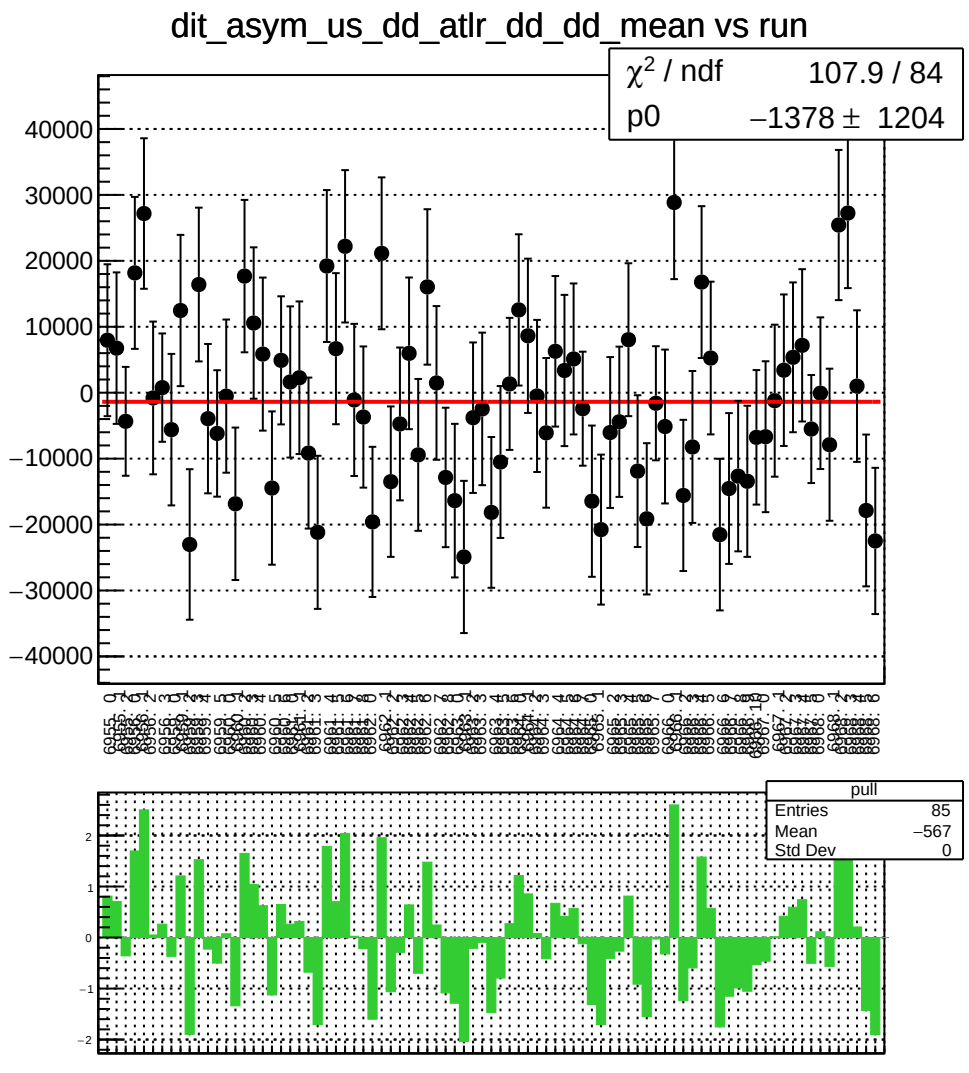

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 108.6 / 84
p0 −1446 ± 1203
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean −641.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.006293
Std Dev 1.13
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

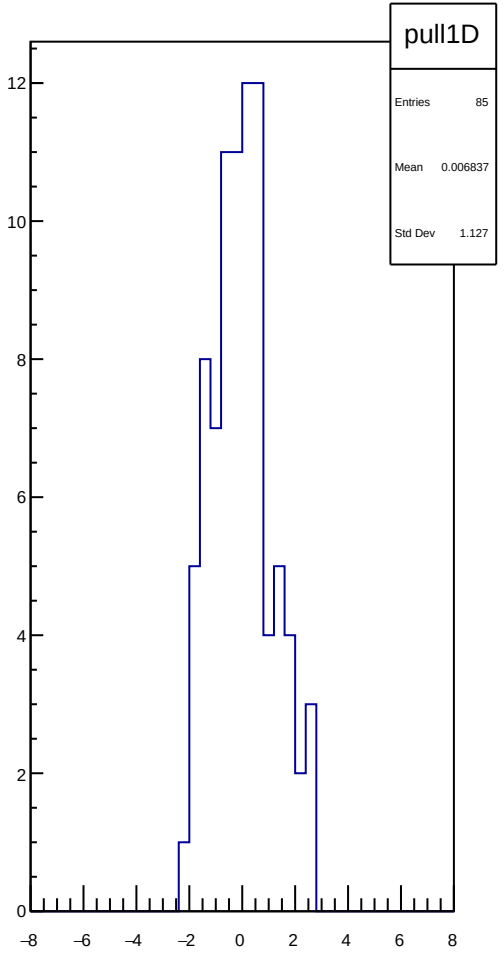

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 93.03 / 84
p0 1090 ± 0.8507
1130
1120
1110
1100
1090
1080
1070
1060

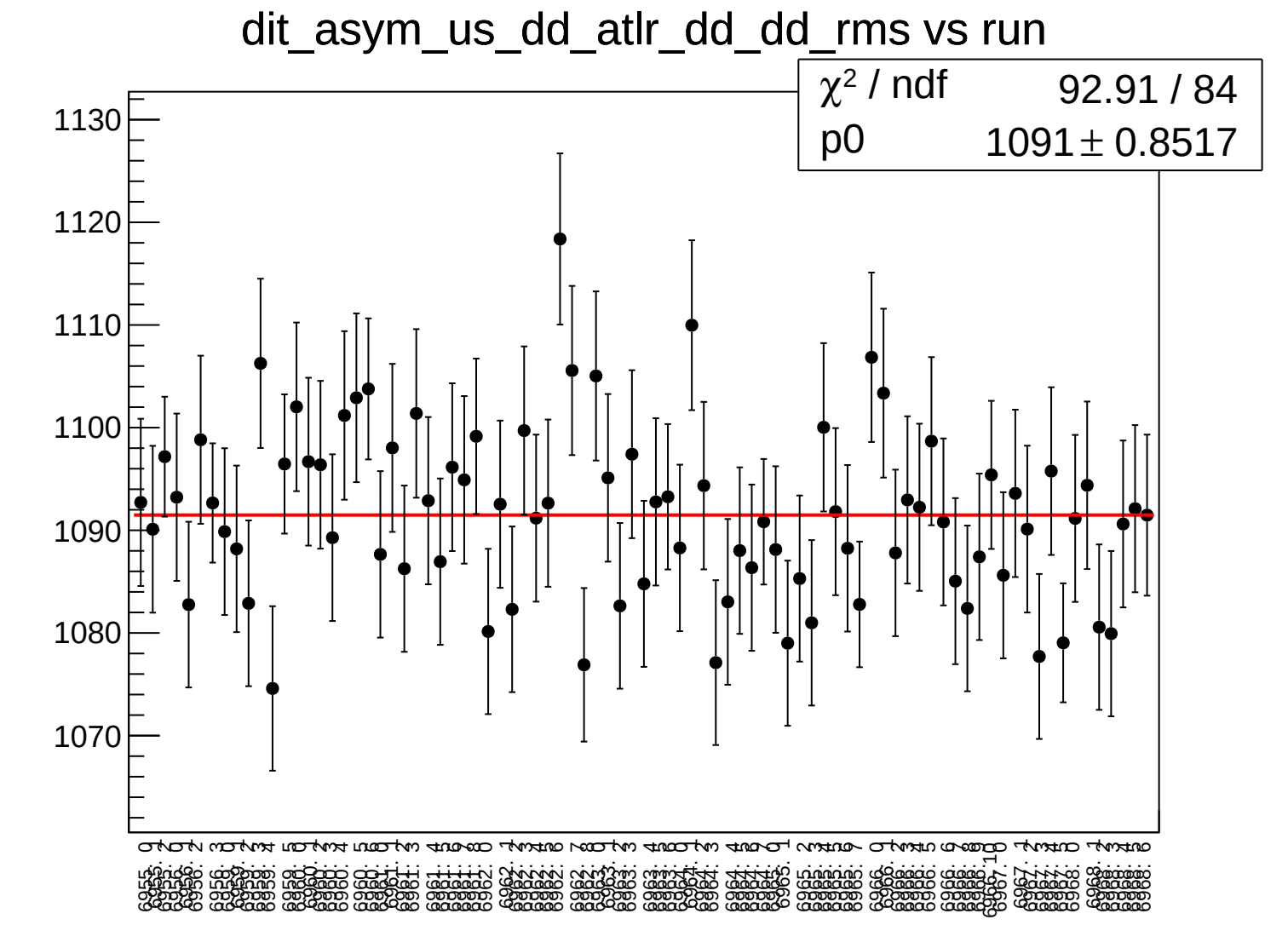

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.15 / 84
p0 −13.36 ± 684.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −6.742
Std Dev 0
2
1
0
−1
−2
−3

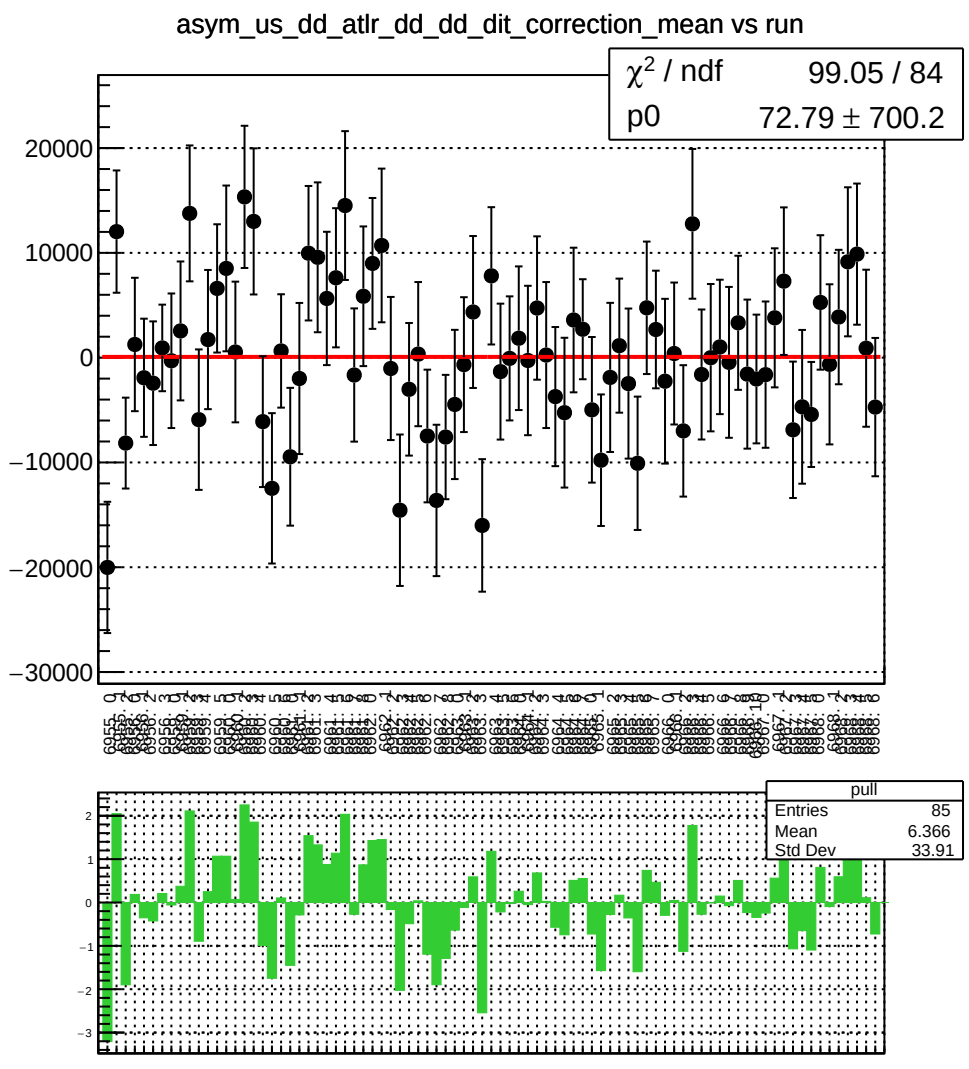

pull1D
Entries 85
Mean 0.01808
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

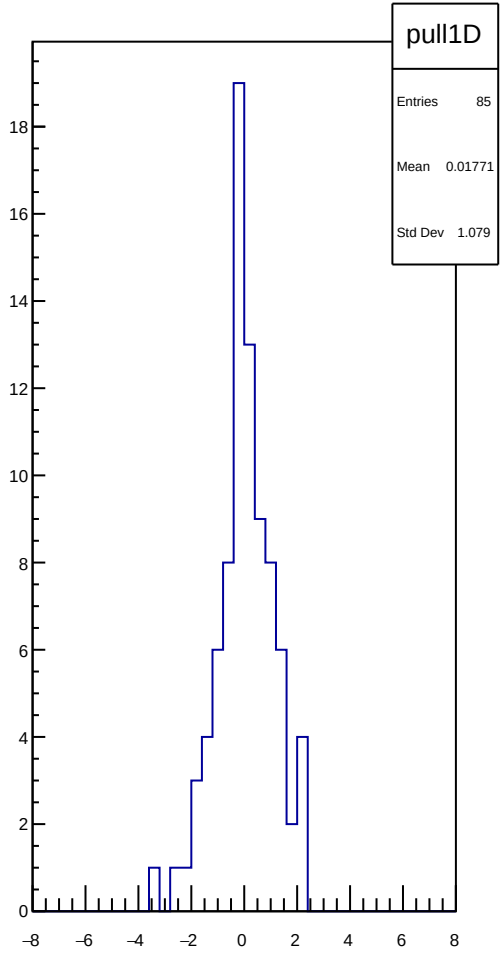

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7290 / 84
p0 619.2 ± 0.4842
750
700
650
600
550

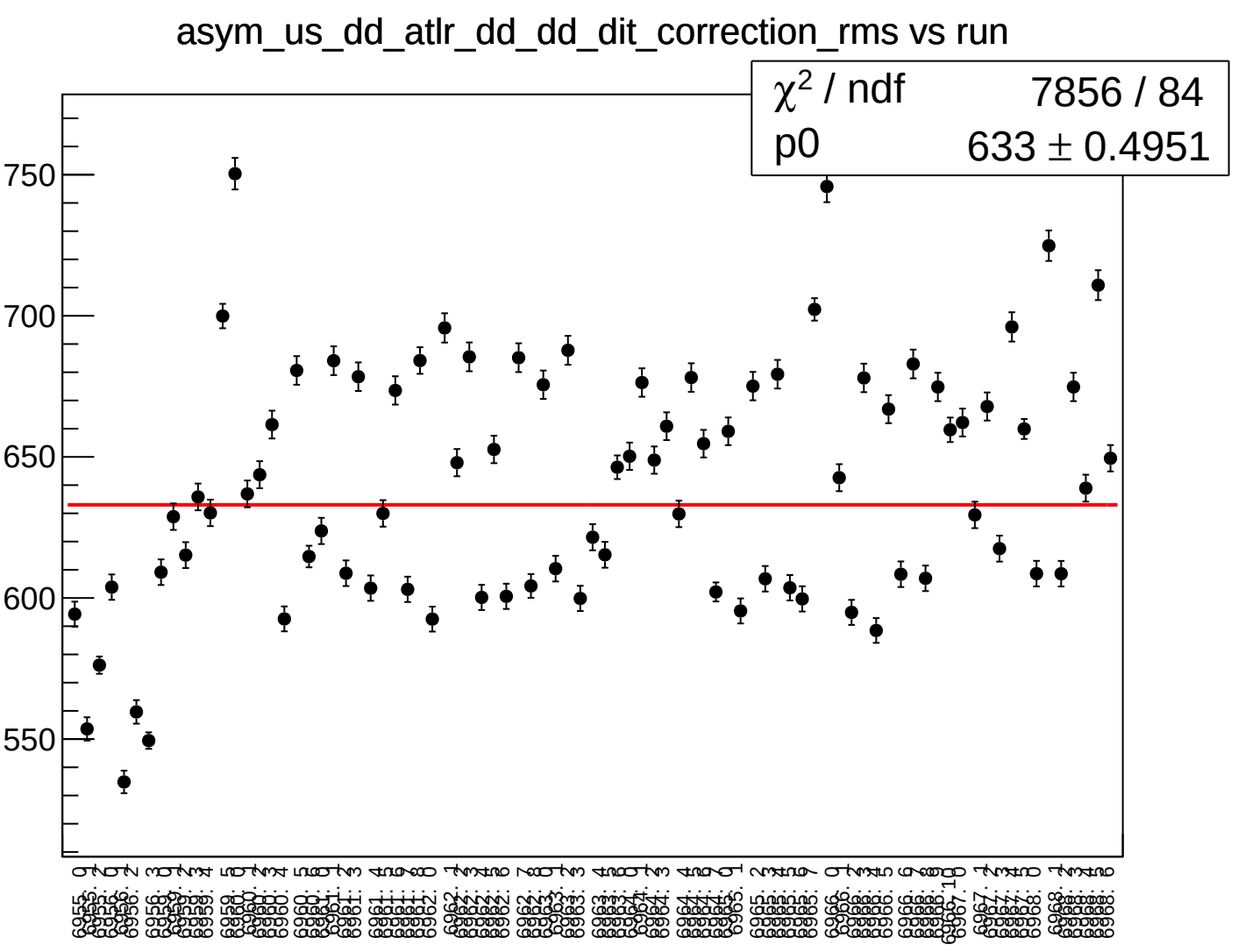

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 107.9 / 84
p0 −1378 ± 1204
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean −567
Std Dev 0
2
1
0
−1
−2

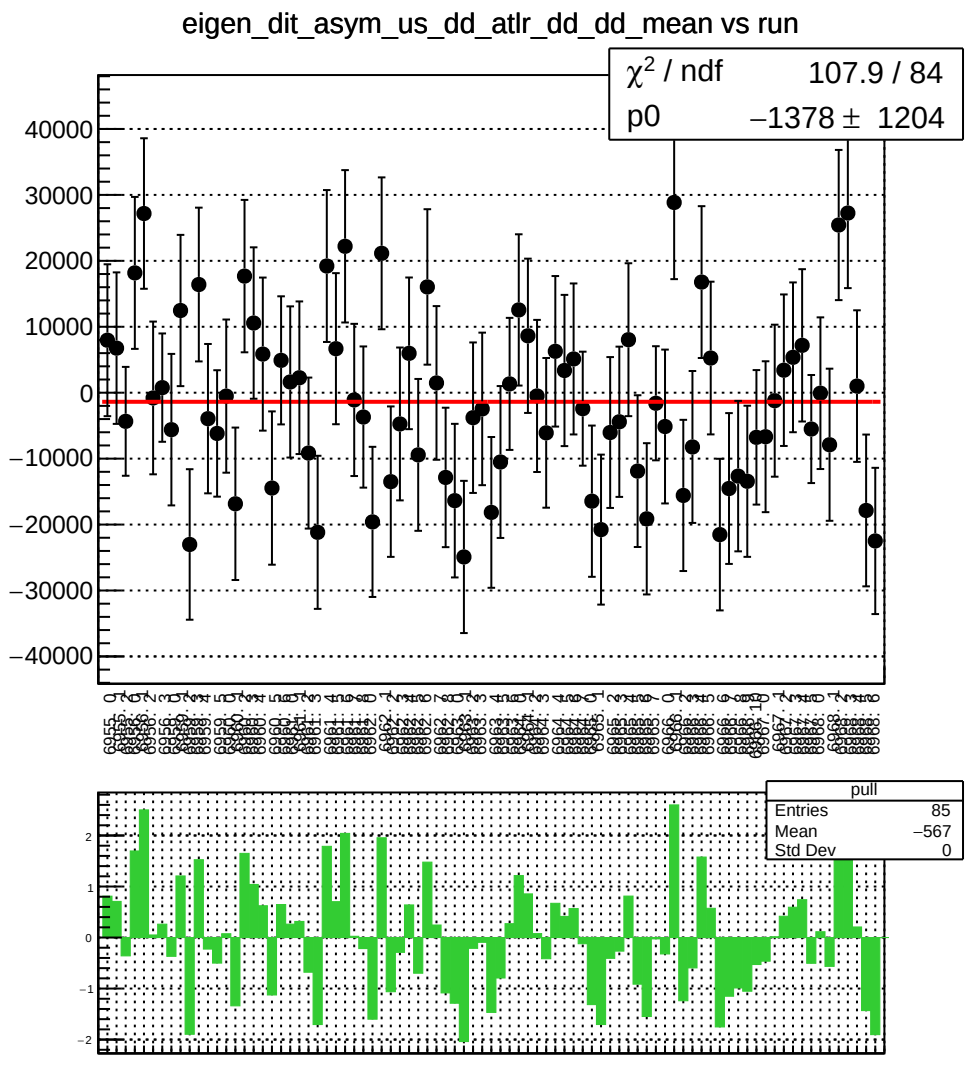

pull1D
Entries 85
Mean 0.006837
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

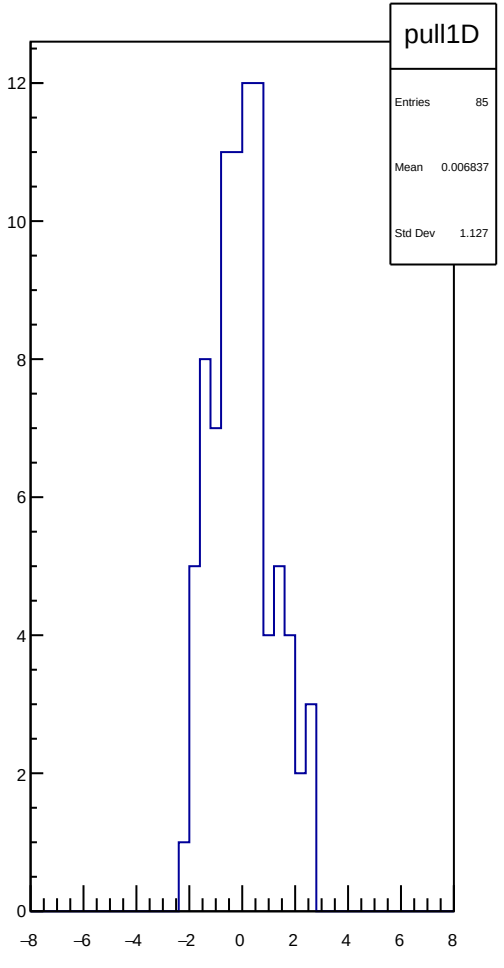

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 92.91 / 84
p0 1091 ± 0.8517
1130
1120
1110
1100
1090
1080
1070

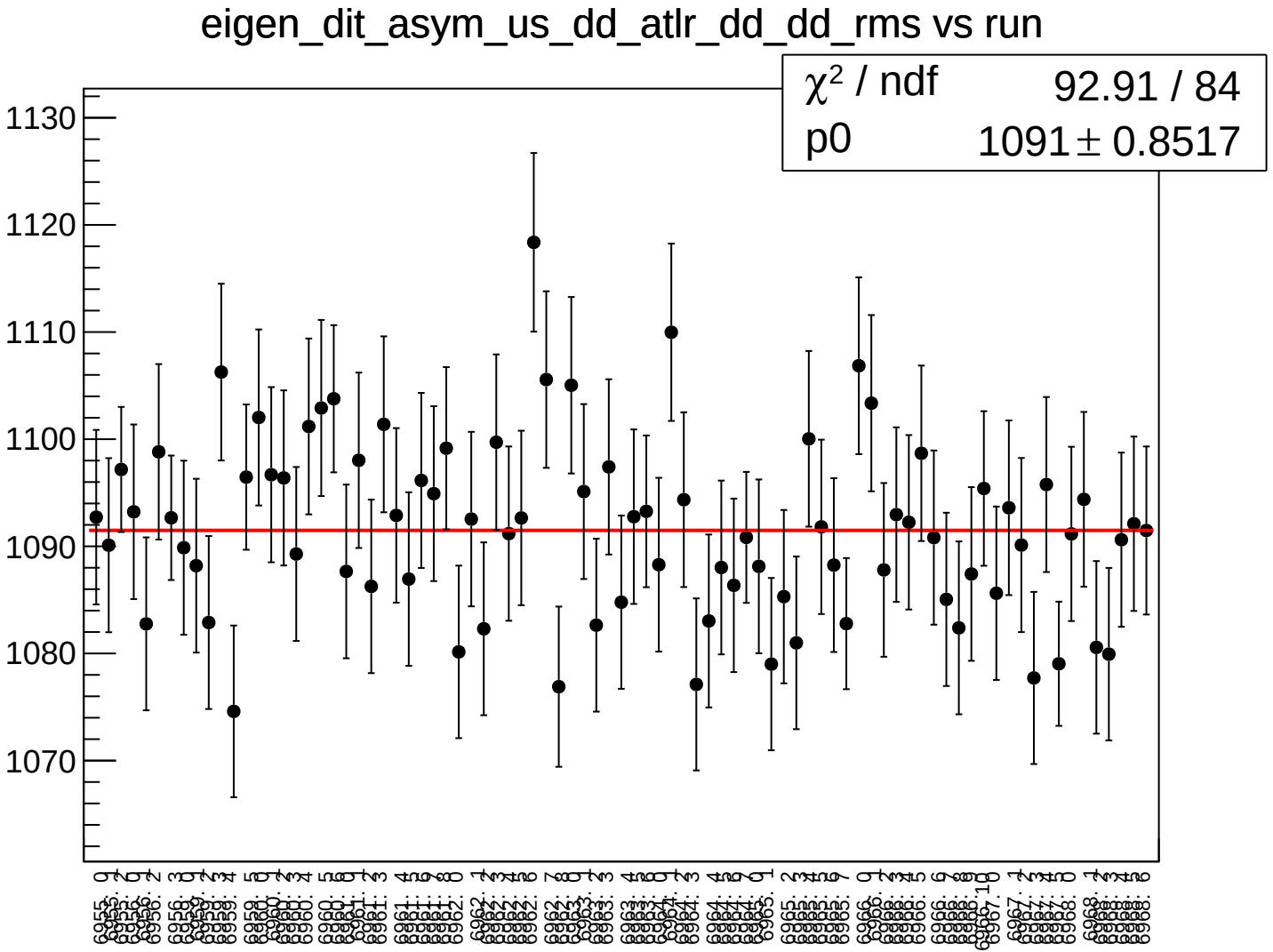

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 99.05 / 84
p0 72.79 ± 700.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 6.366
Std Dev 33.91
2
1
0
−1
−2
−3

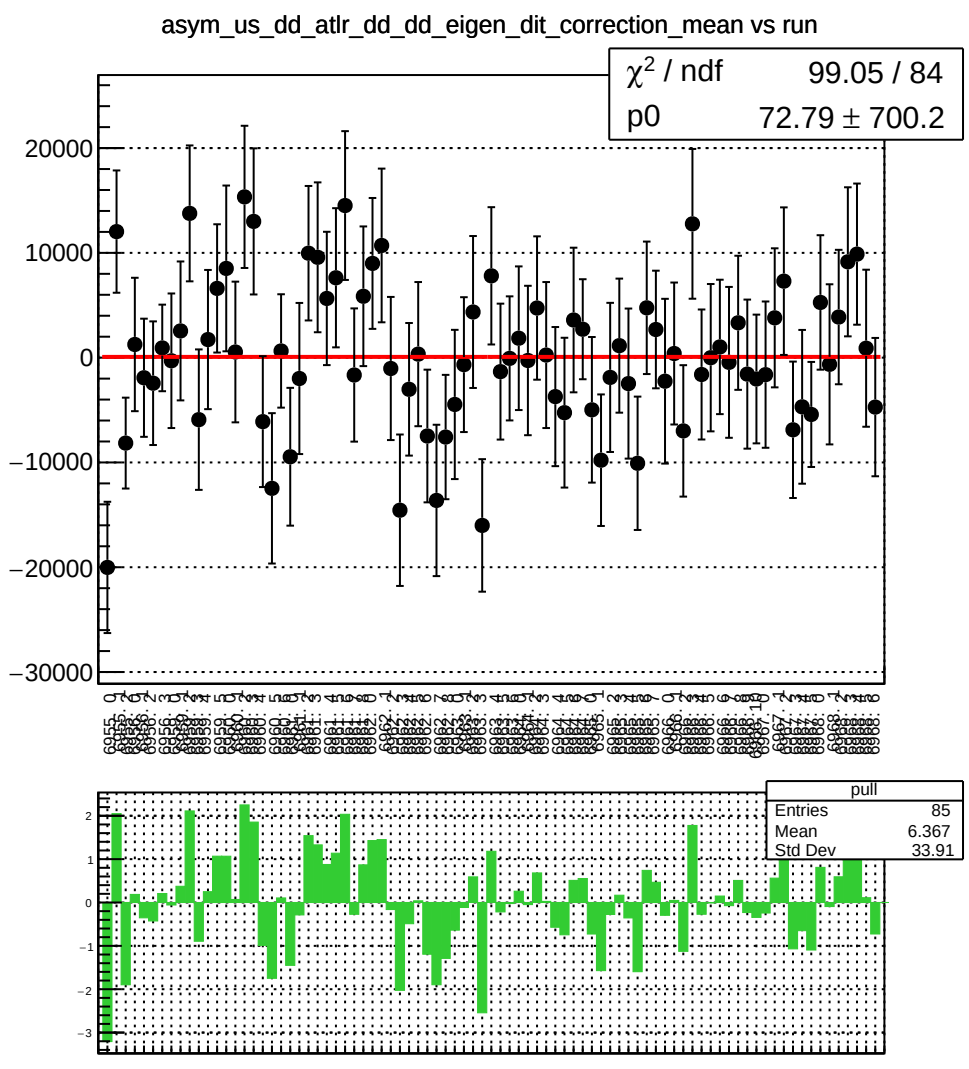

pull1D
Entries 85
Mean 0.01771
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

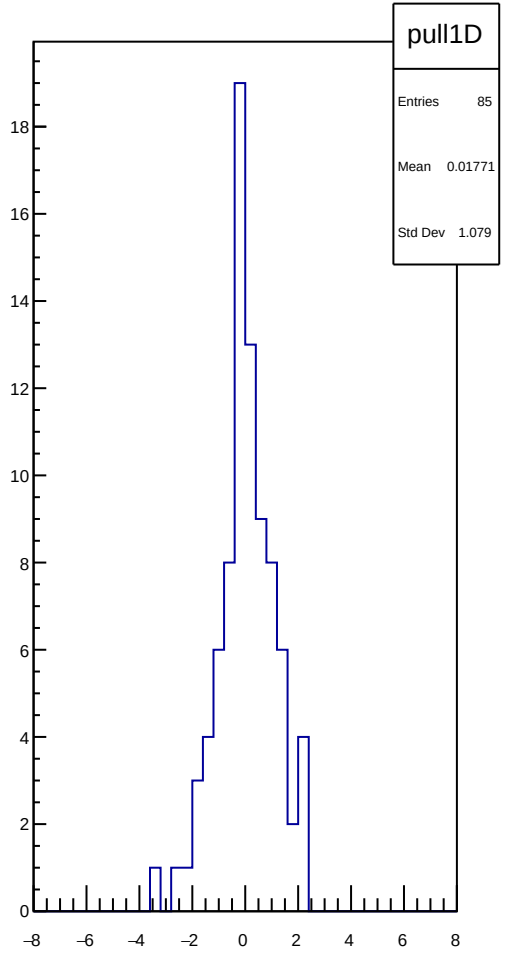

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 7856 / 84
p0 633 ± 0.4951
750
700
650
600
550

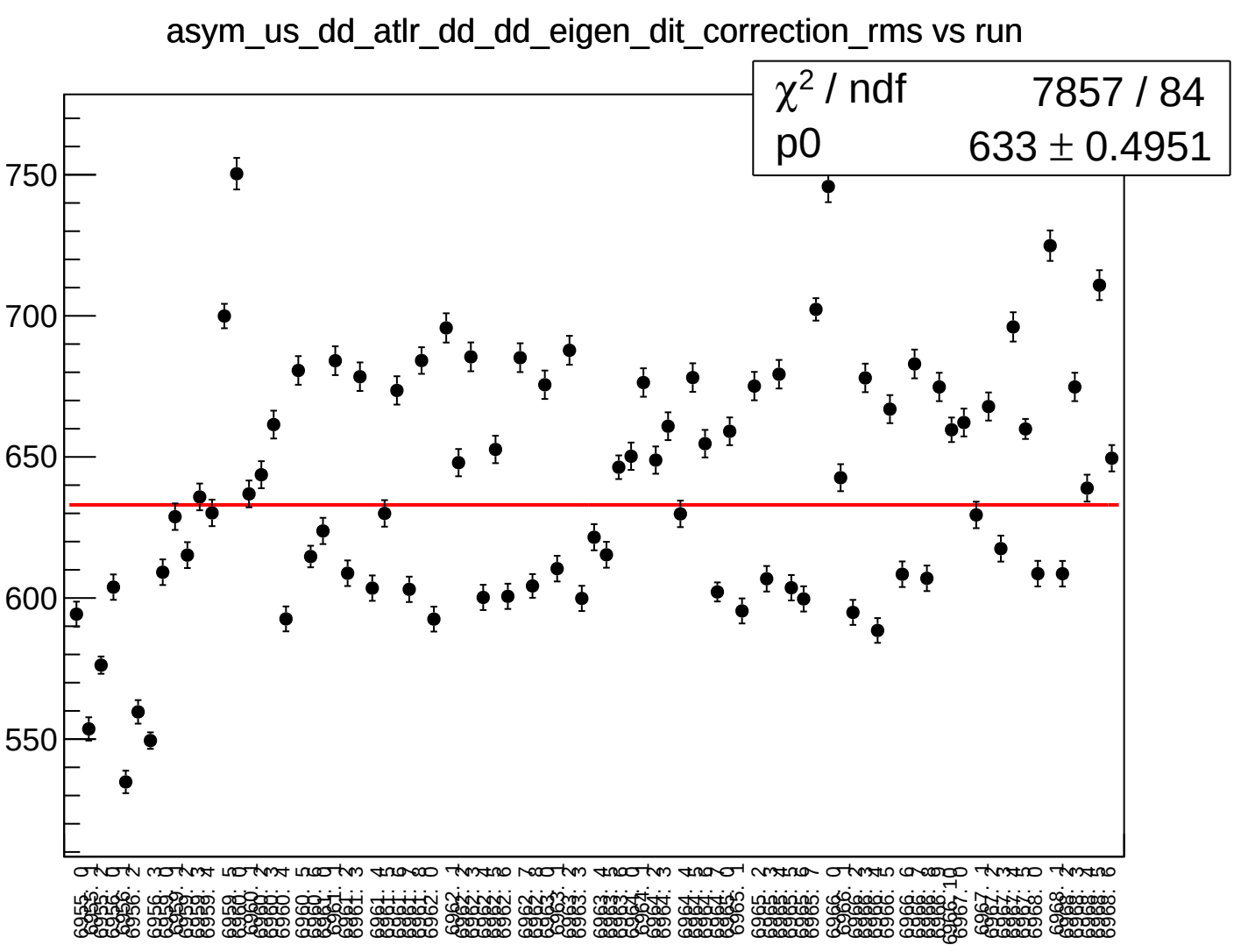

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 107.9 / 84
p0 −1378 ± 1204
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean −567
Std Dev 0
2
1
0
−1
−2

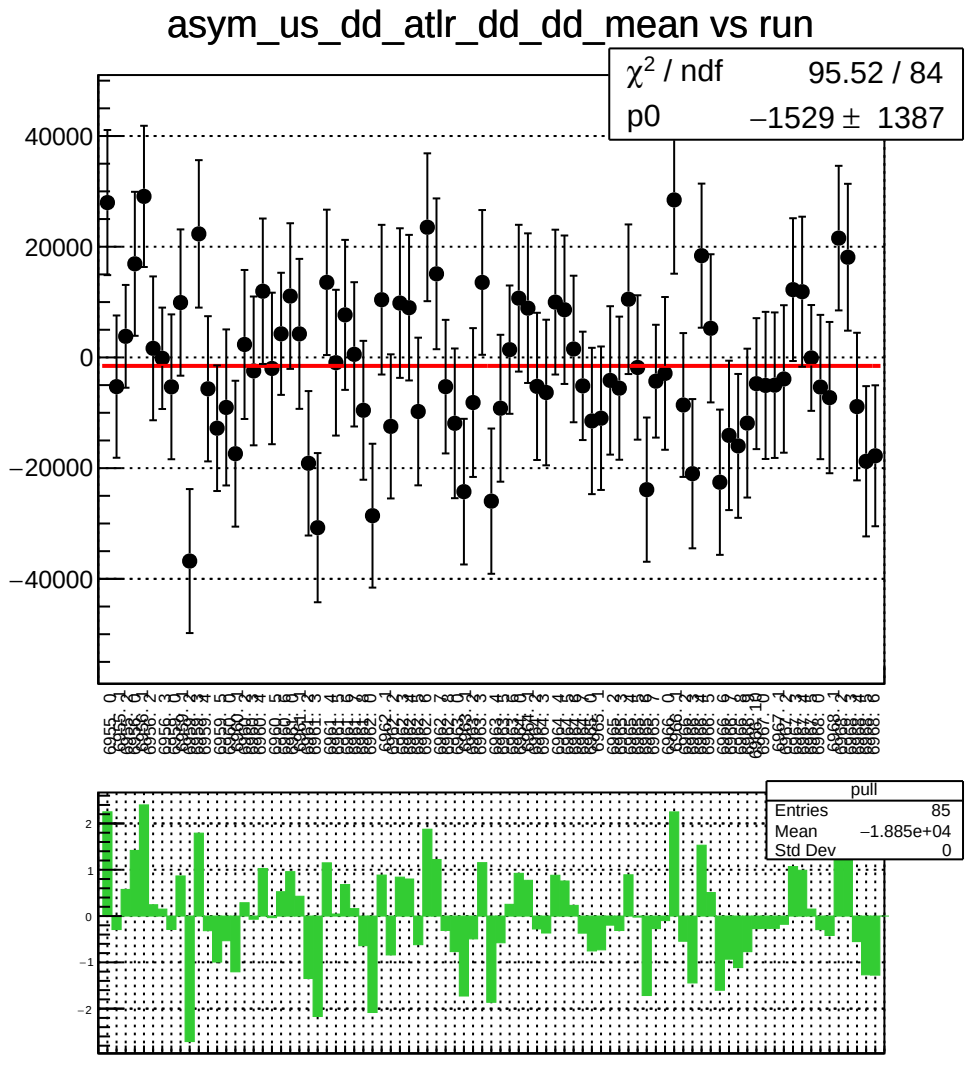

pull1D
Entries 85
Mean 0.006837
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

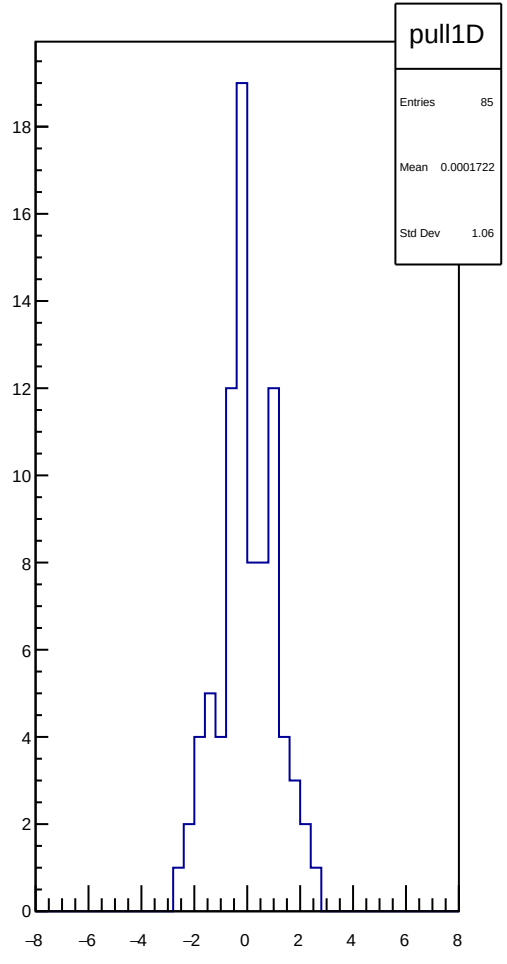

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 92.91 / 84
p0 1091 ± 0.8517
1130
1120
1110
1100
1090
1080
1070

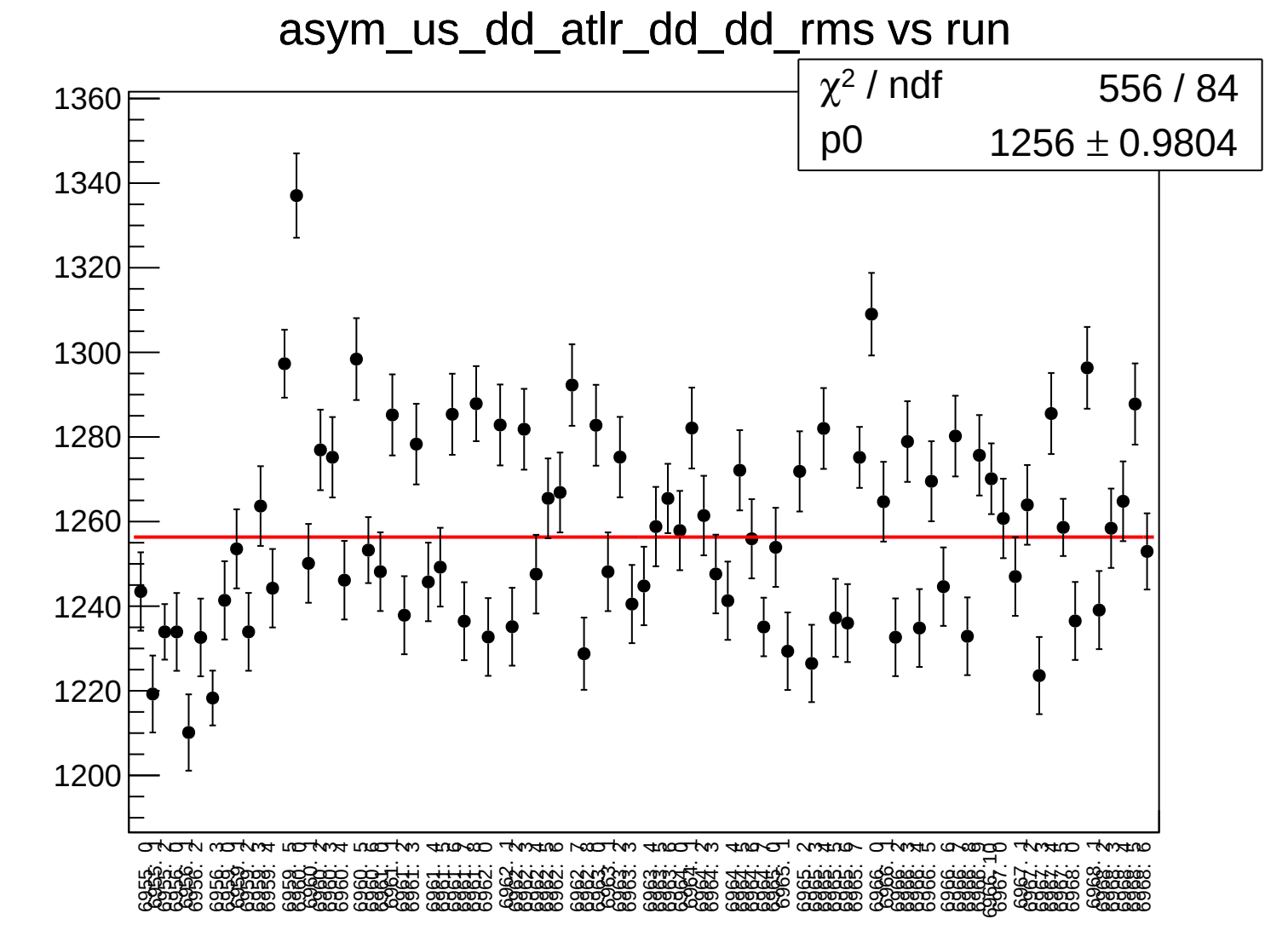

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.05 / 84
p0 72.79 ± 700.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 6.367
Std Dev 33.91
2
1
0
−1
−2
−3

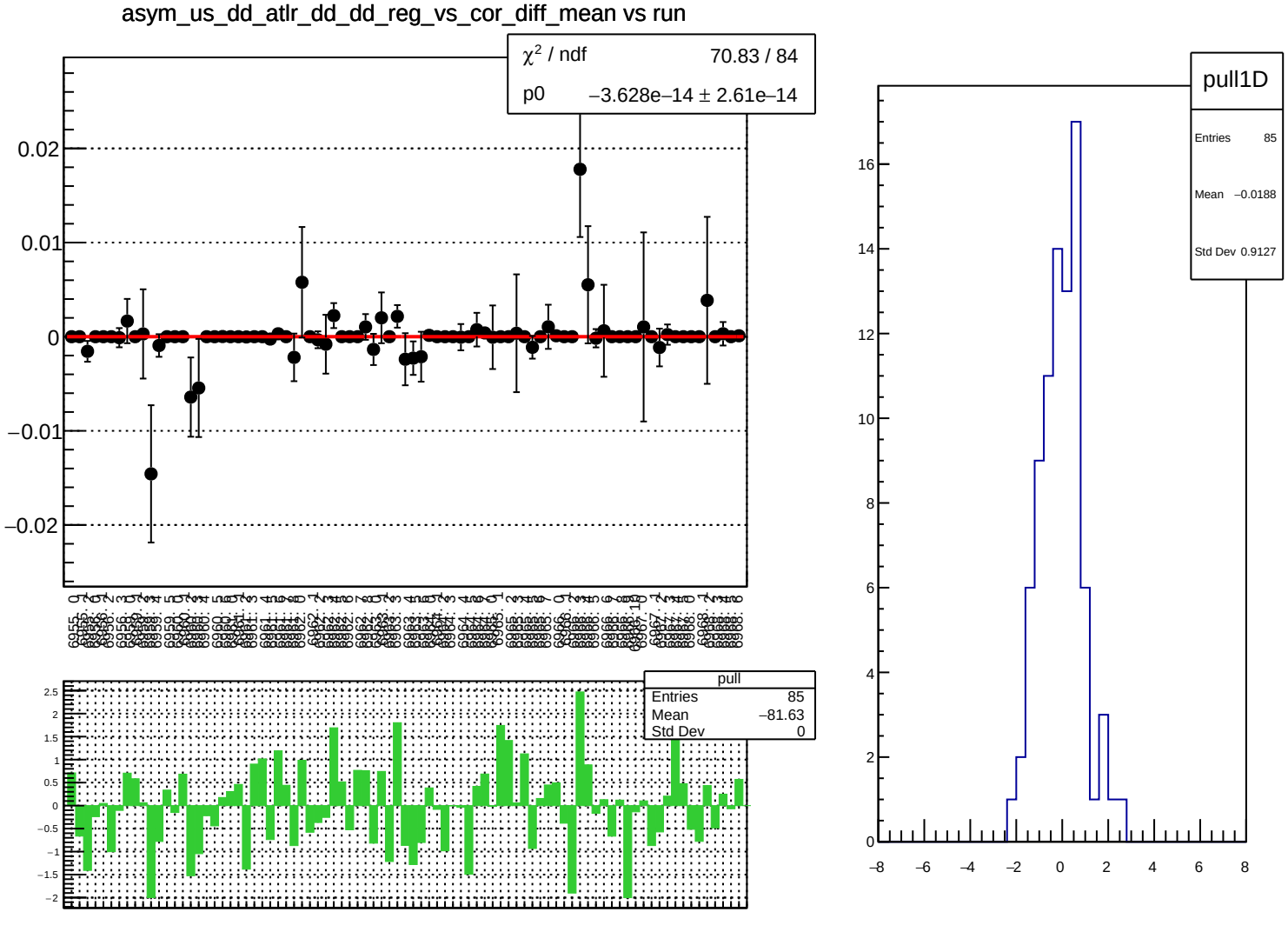

pull1D
Entries 85
Mean 0.01771
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

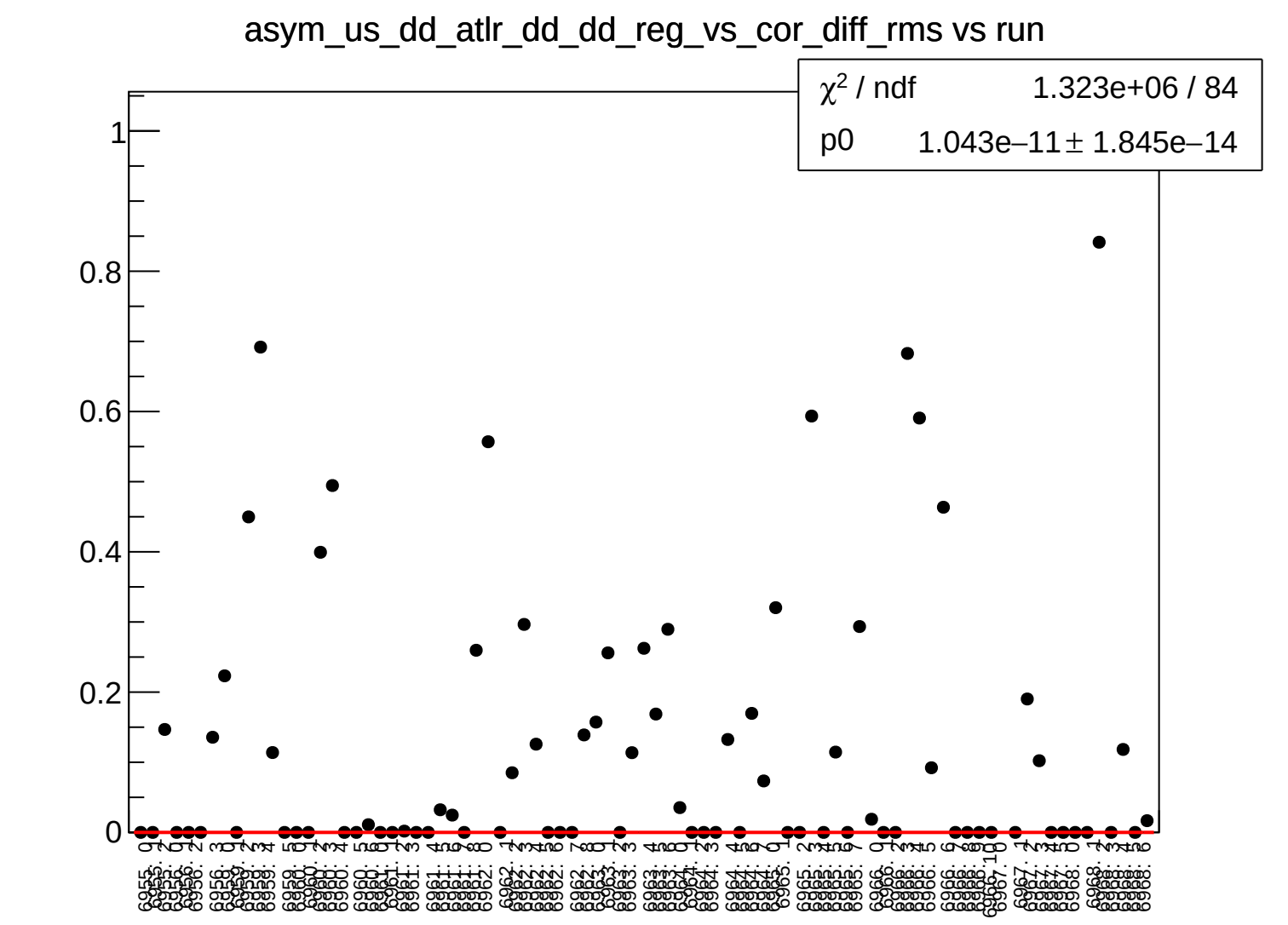

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7857 / 84
p0 633 ± 0.4951
750
700
650
600
550

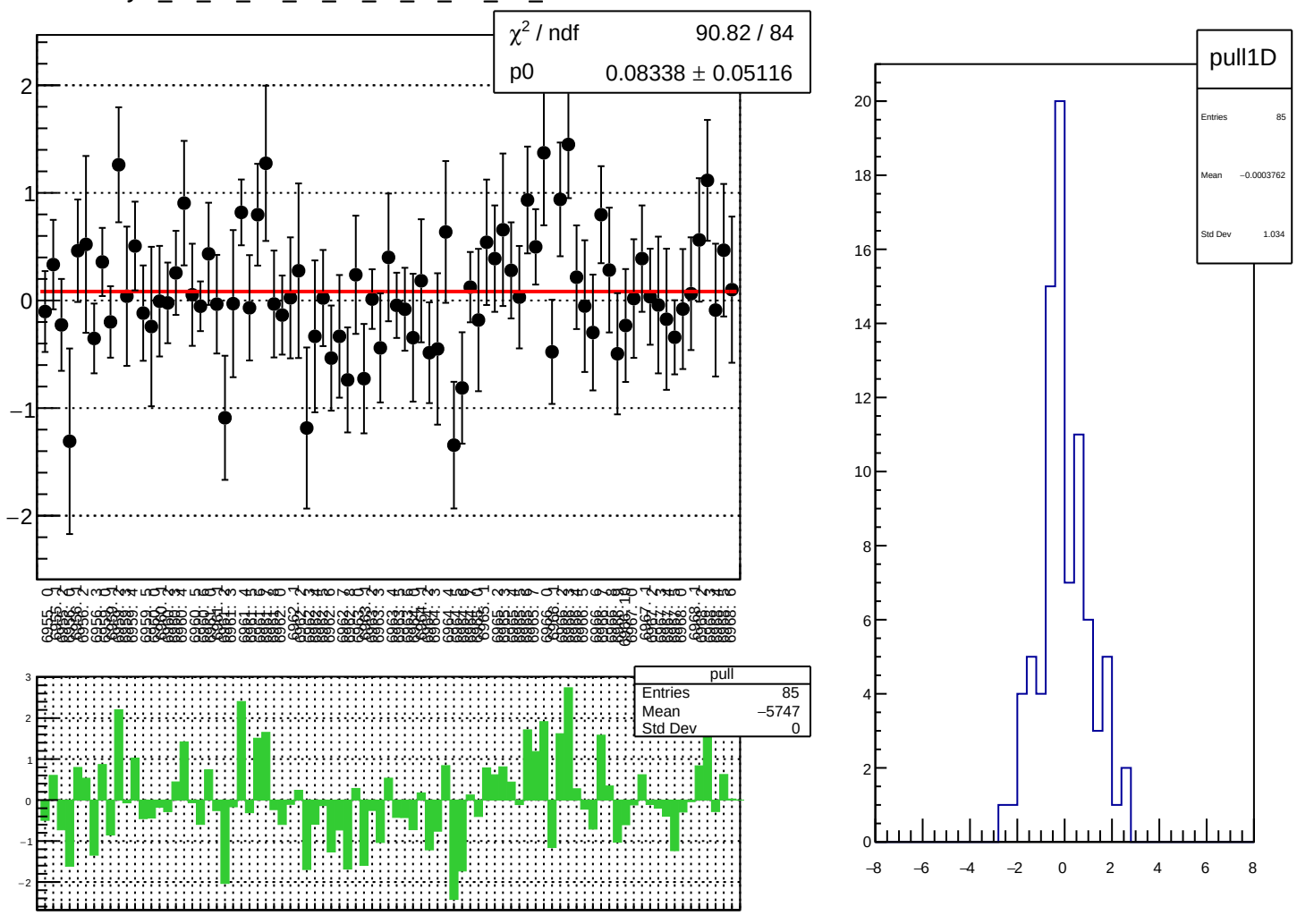

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 95.52 / 84
p0 −1529 ± 1387
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1.885e+04
Std Dev 0
2
1
0
−1
−2

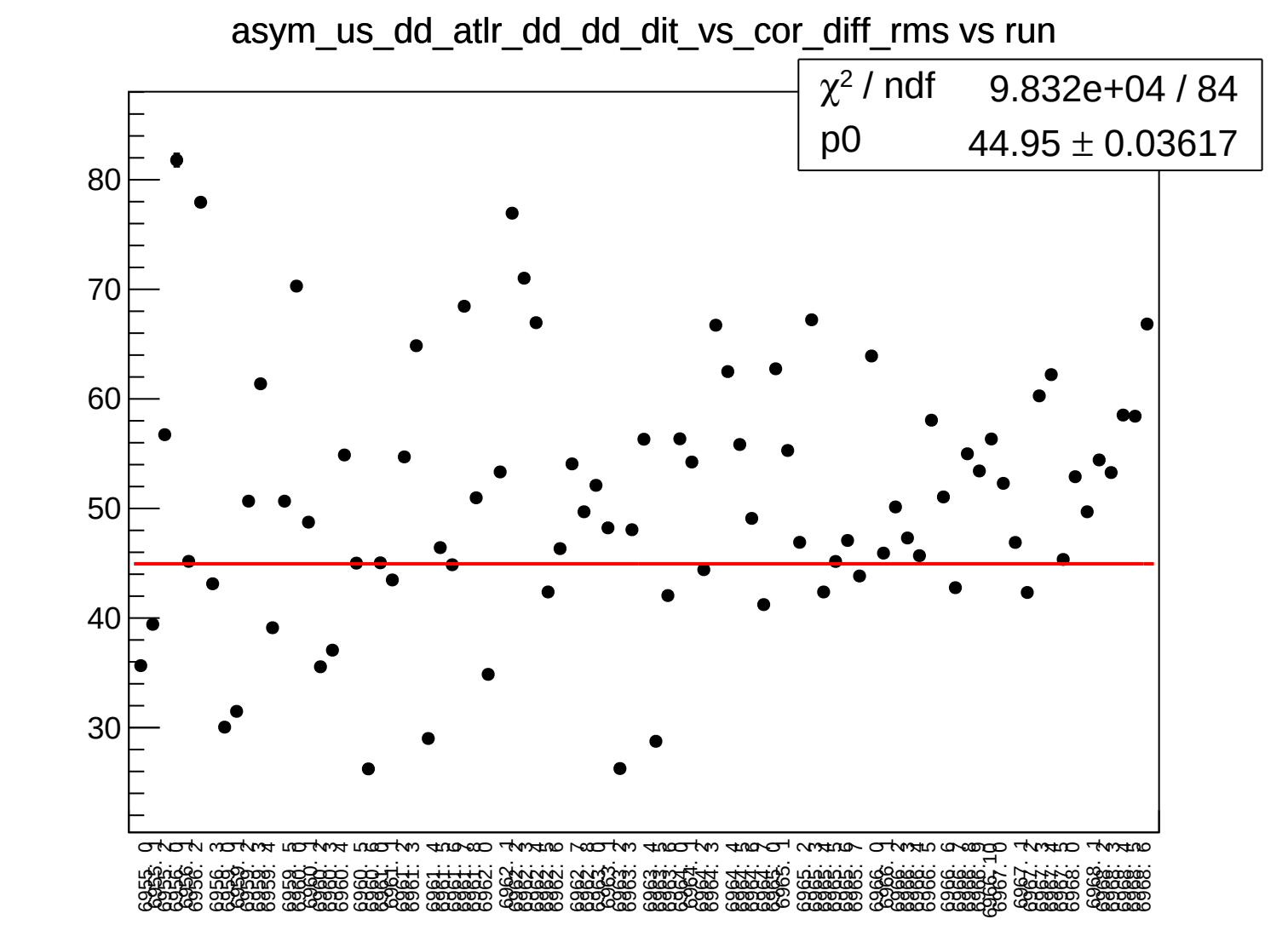

pull1D
Entries 85
Mean 0.0001722
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

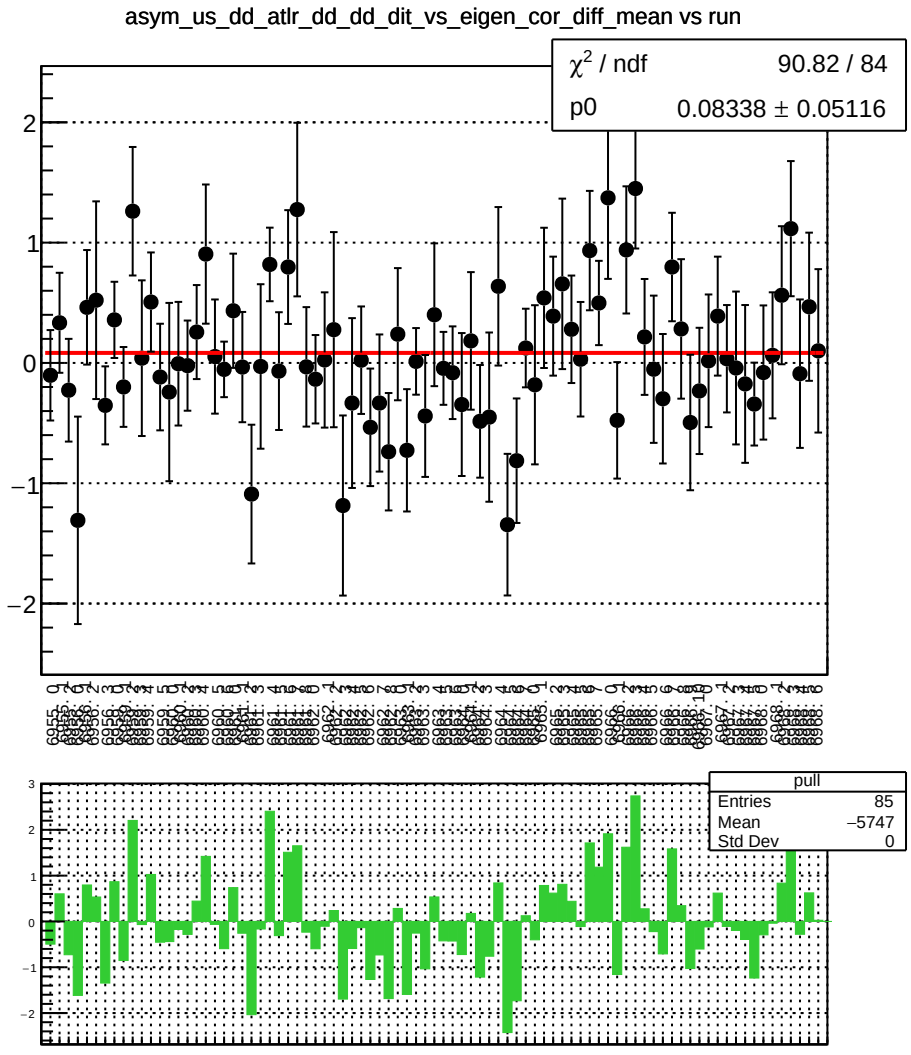

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 556 / 84
p0 1256 ± 0.9804
1360
1340
1320
1300
1280
1260
1240
1220
1200

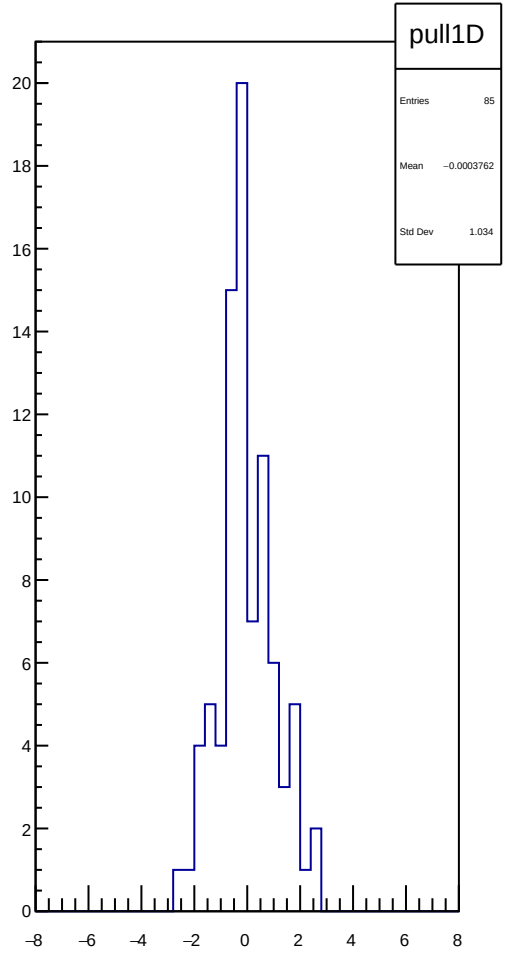

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.83 / 84
p0 −3.628e−14 ± 2.61e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean −81.63
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.0188
Std Dev 0.9127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

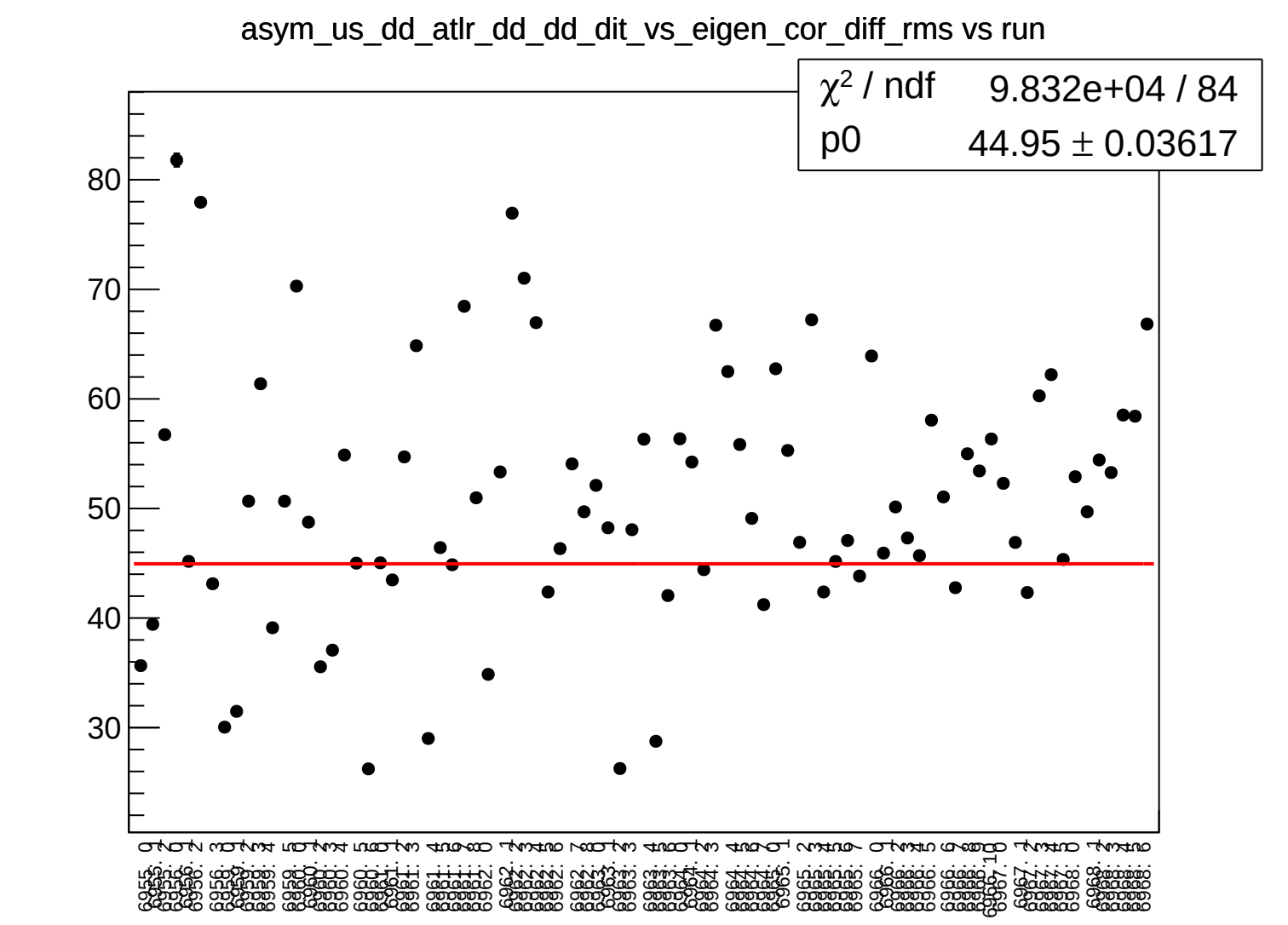

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.323e+06 / 84
p0 1.043e−11 ± 1.845e−14
1
0.8
0.6
0.4
0.2
0

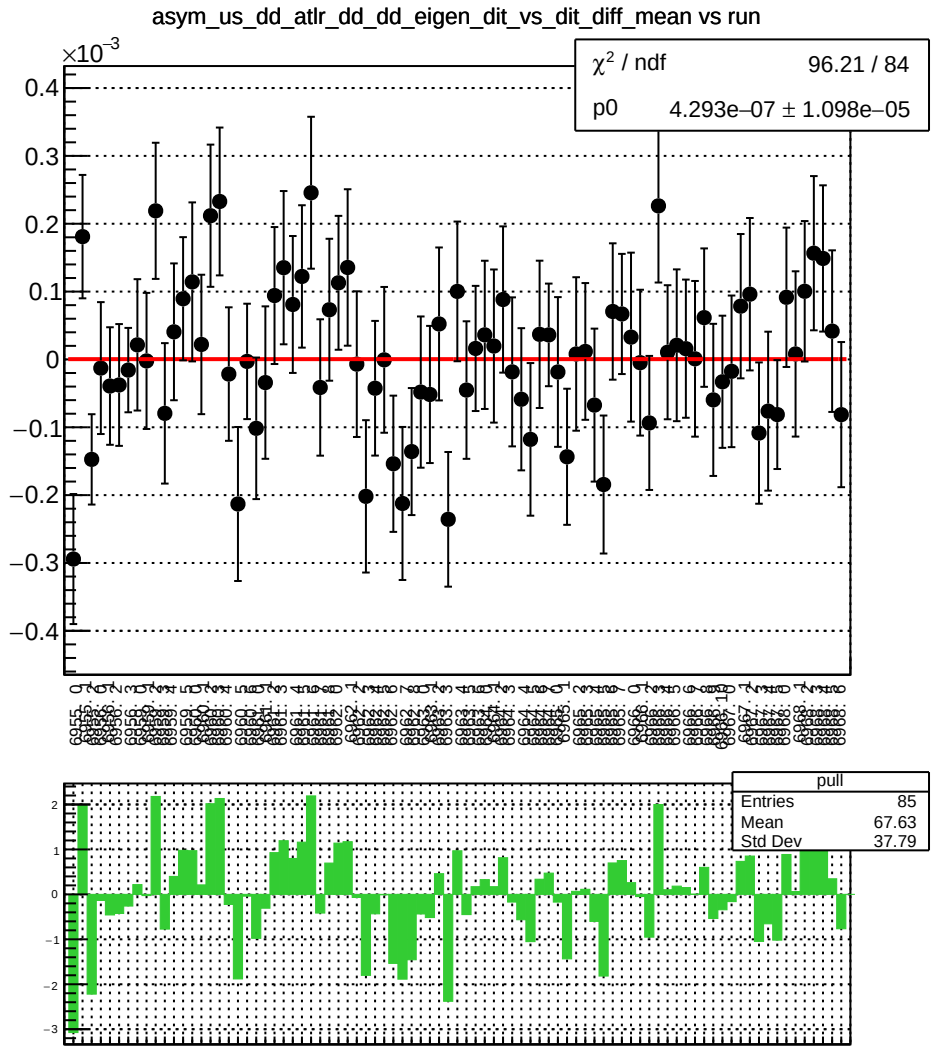

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.82 / 84
p0 0.08338 ± 0.05116
pull
Entries 85
Mean −5747
Std Dev 0
pull1D
Entries 85
Mean −0.0003762
Std Dev 1.034

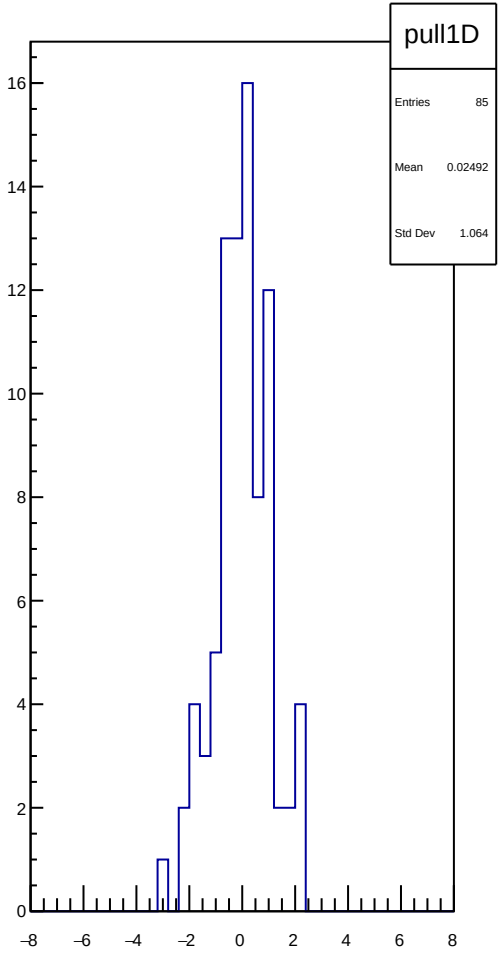

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.832e+04 / 84
p0 44.95 ± 0.03617
80
70
60
50
40
30

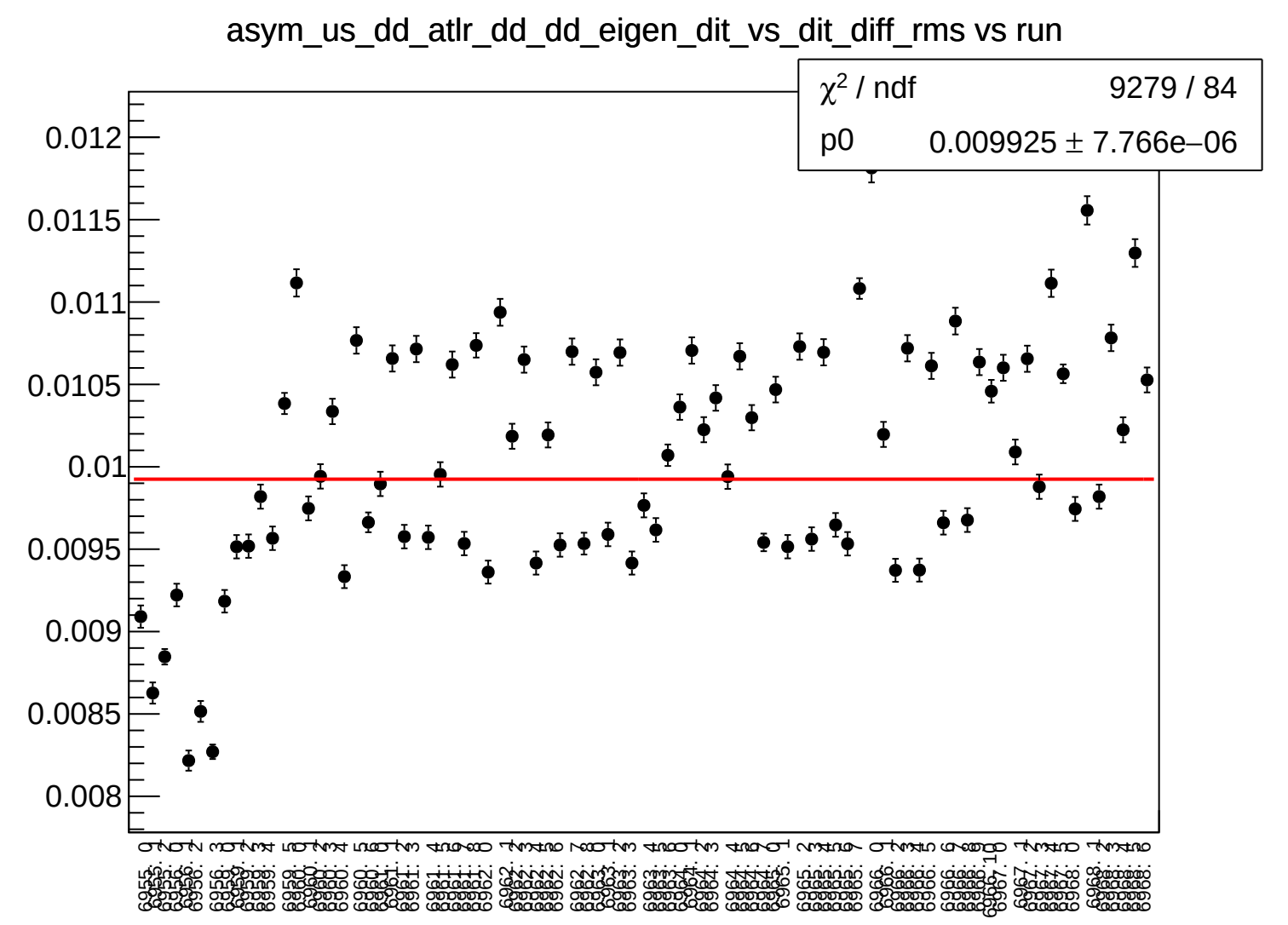

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.82 / 84
p0 0.08338 ± 0.05116
pull
Entries 85
Mean −5747
Std Dev 0

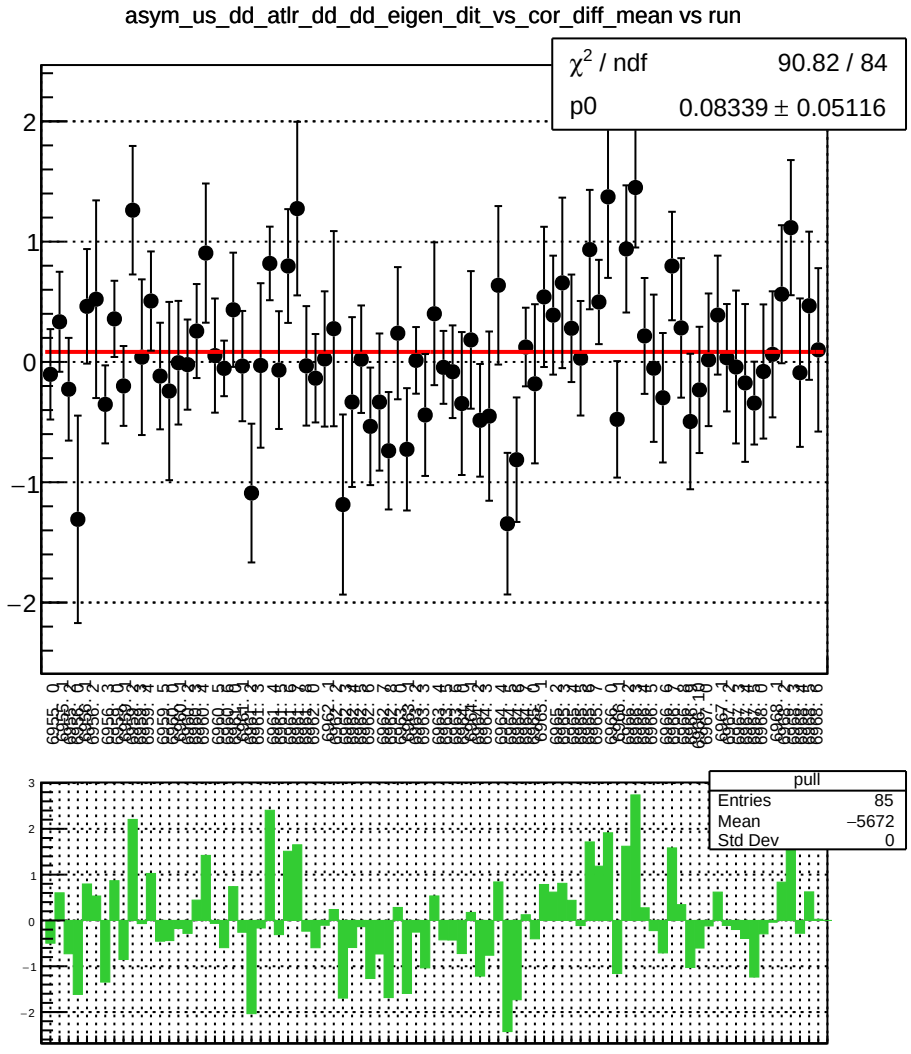

pull1D
Entries 85
Mean −0.0003762
Std Dev 1.034

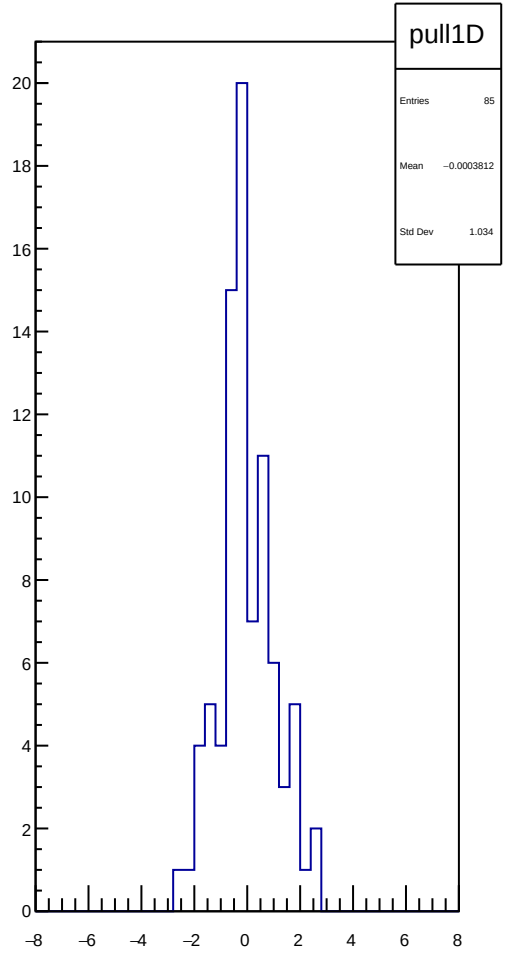

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.832e+04 / 84
p0 44.95 ± 0.03617
80
70
60
50
40
30

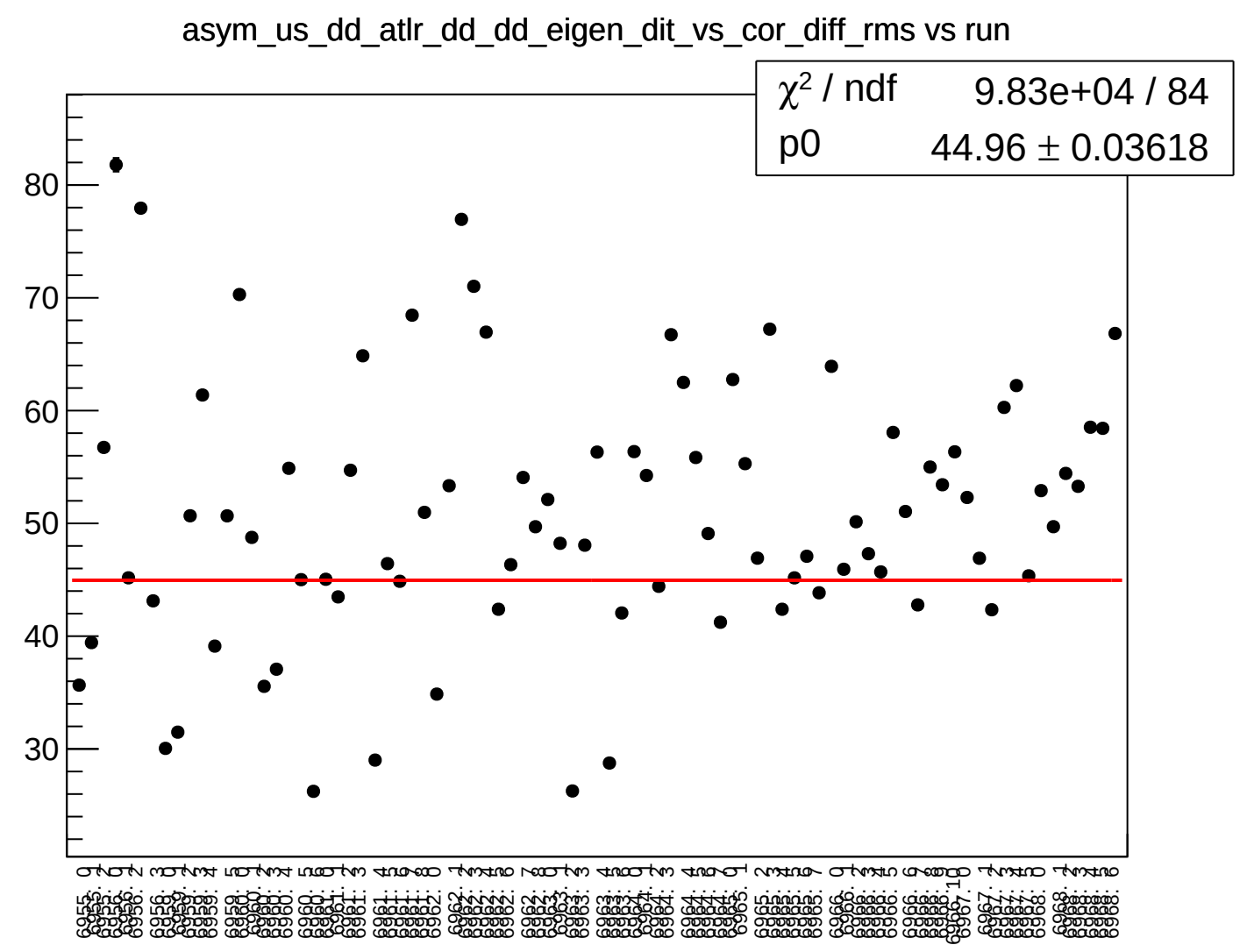

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 96.21 / 84
p0 4.293e−07 ± 1.098e−05
pull
Entries 85
Mean 67.63
Std Dev 37.79

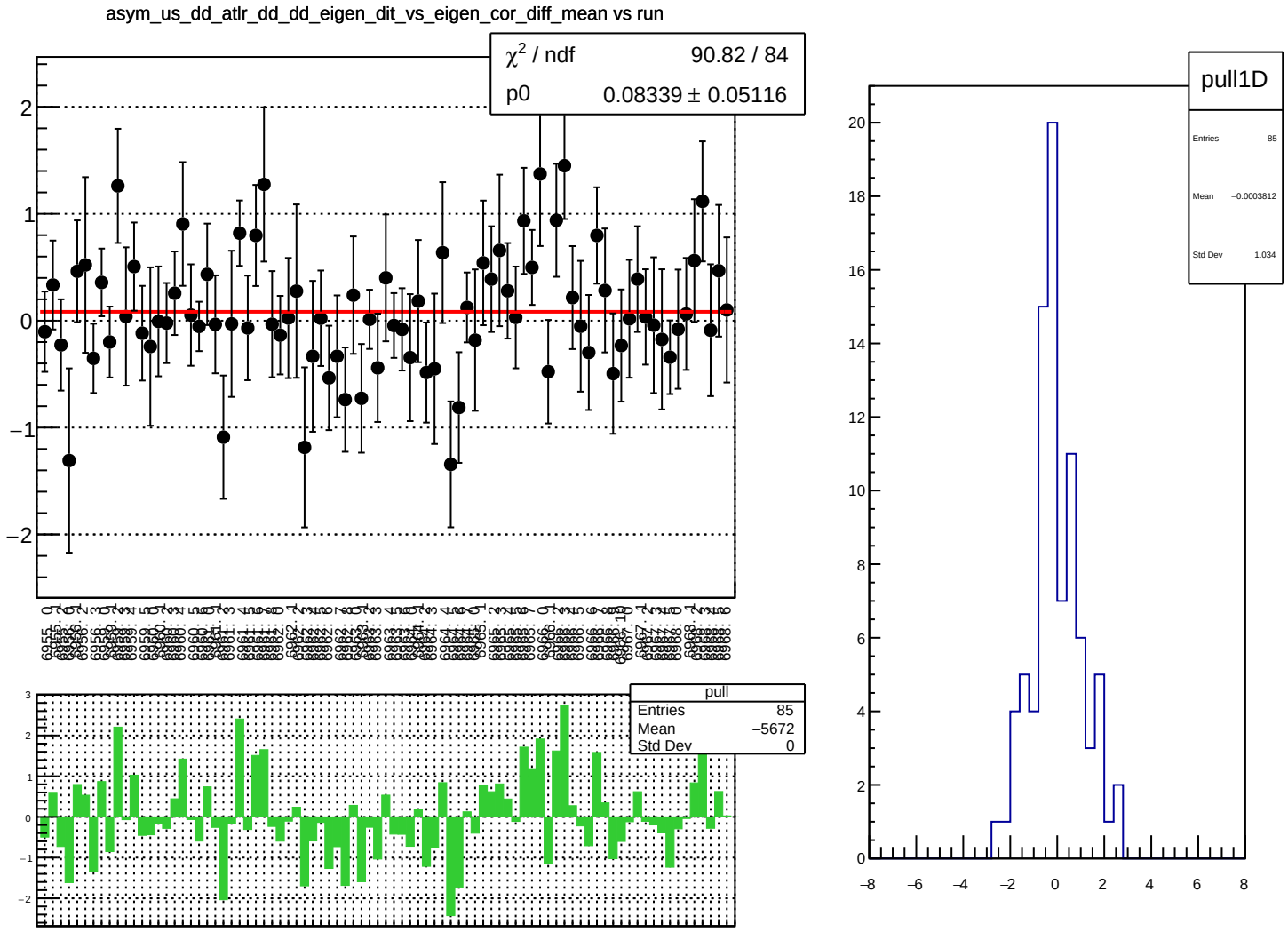

pull1D
Entries 85
Mean 0.02492
Std Dev 1.064

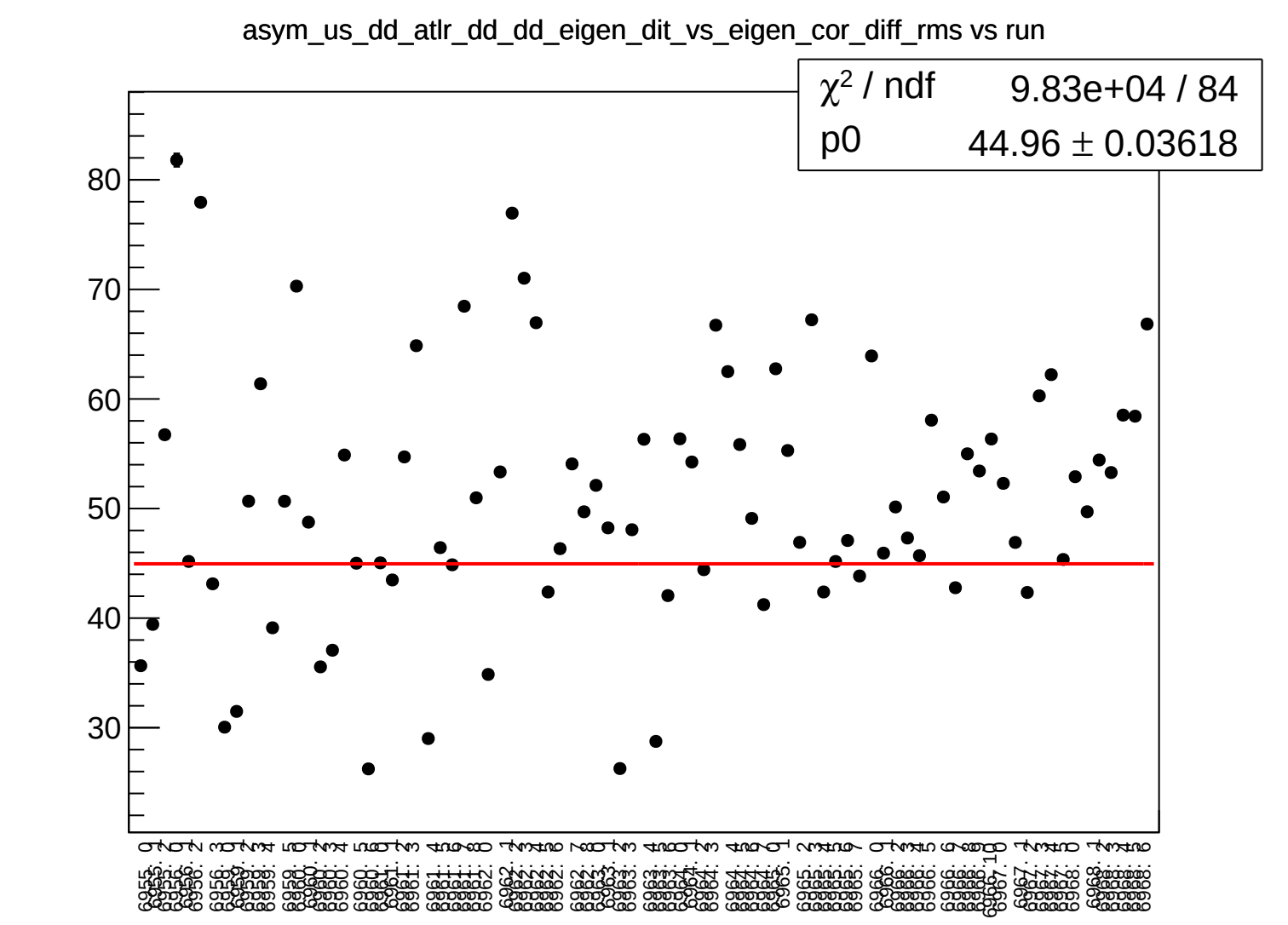

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9279 / 84
p0 0.009925 ± 7.766e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

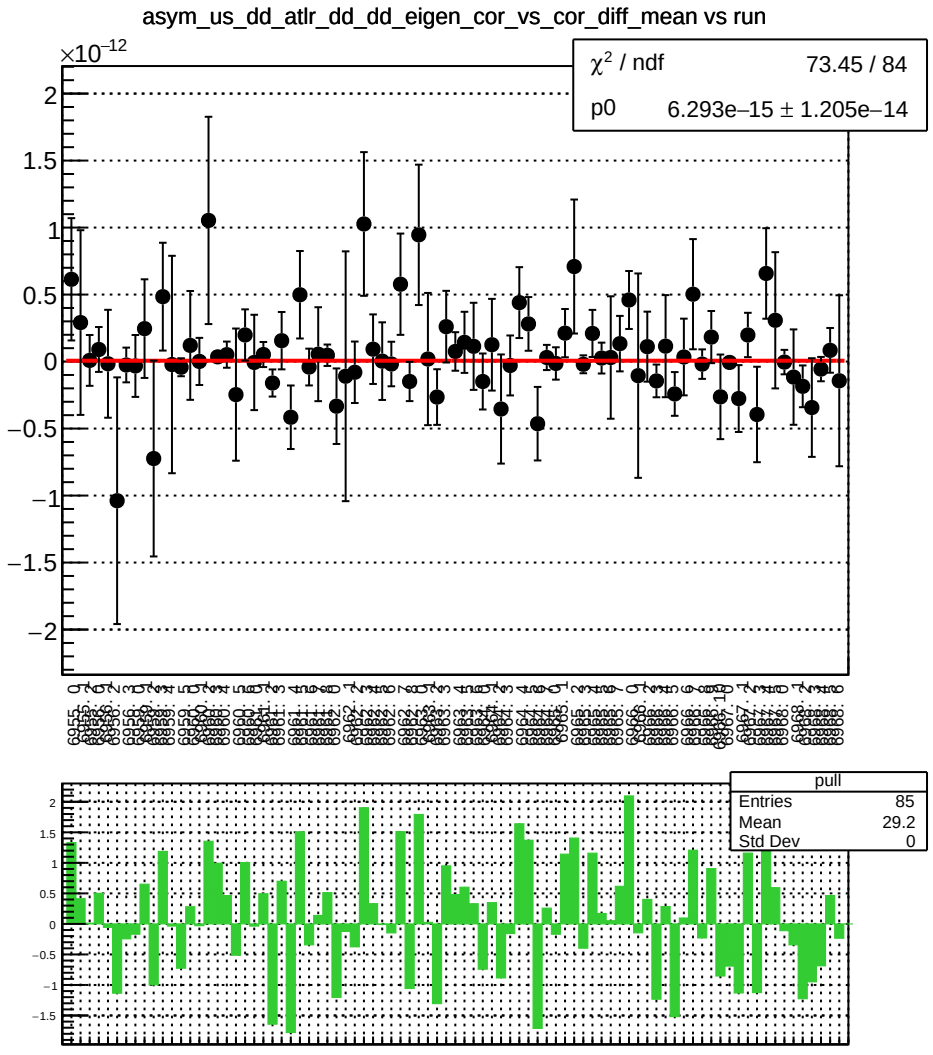

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.82 / 84
p0 0.08339 ± 0.05116
pull
Entries 85
Mean −5672
Std Dev 0

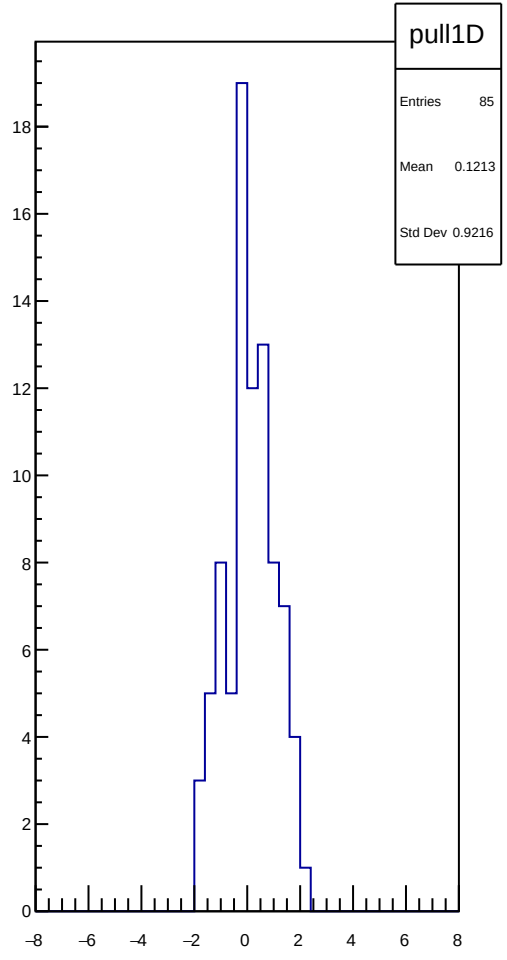

pull1D
Entries 85
Mean −0.0003812
Std Dev 1.034

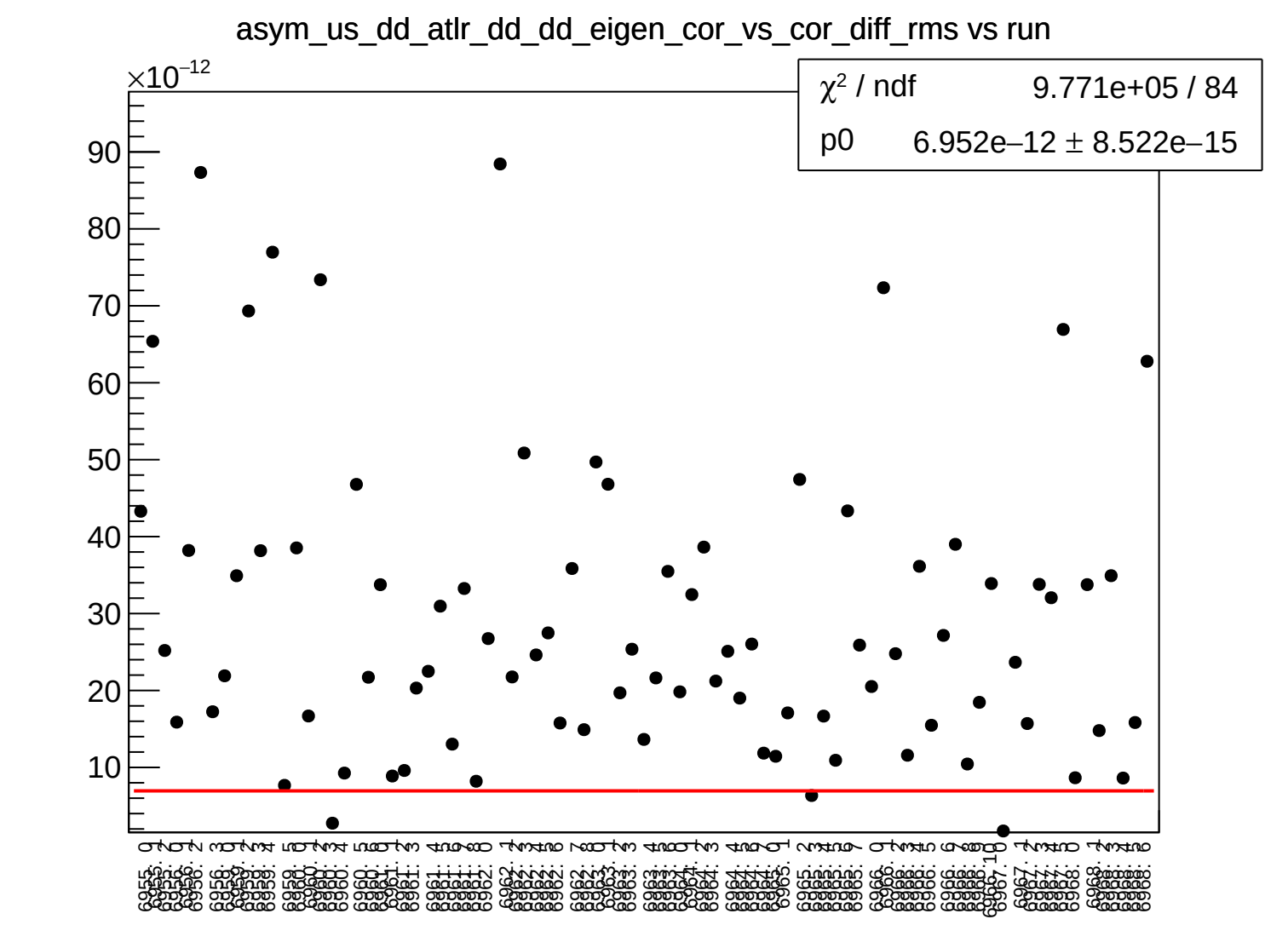

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.83e+04 / 84
p0 44.96 ± 0.03618
80
70
60
50
40
30

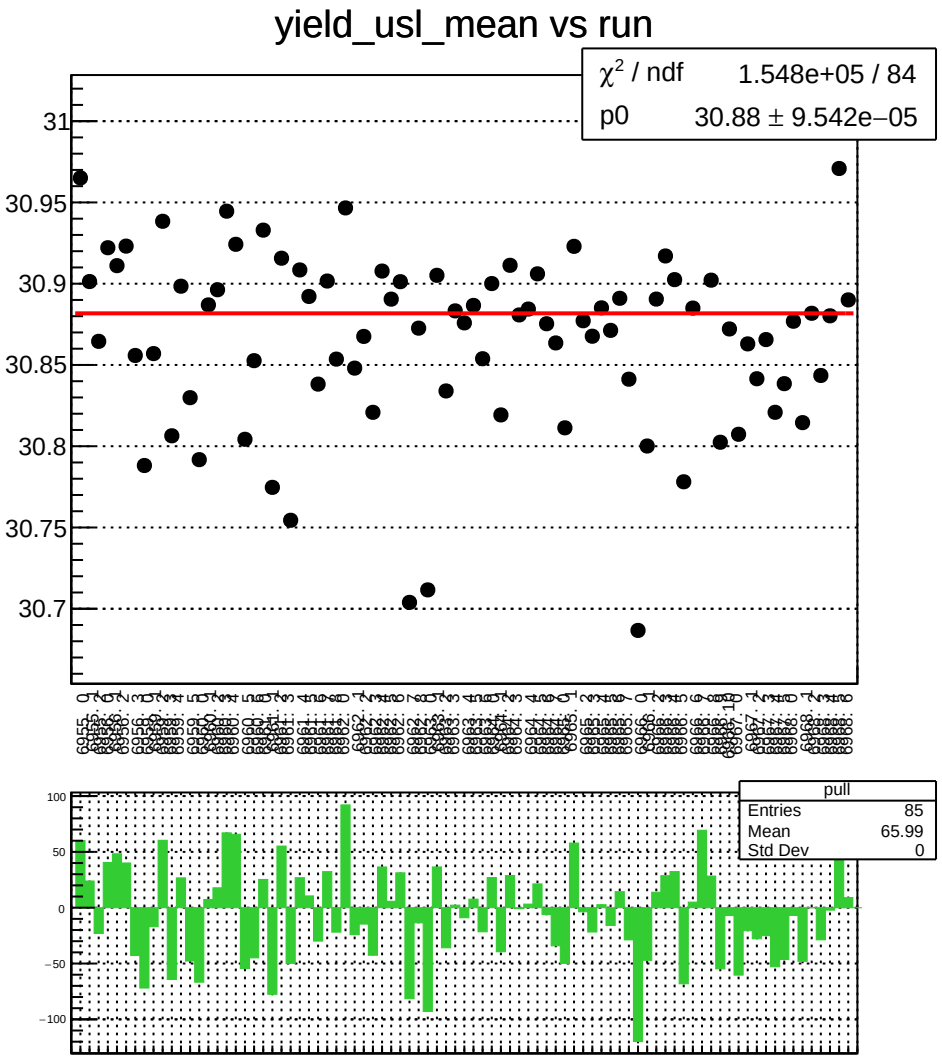

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.82 / 84
p0 0.08339 ± 0.05116
pull
Entries 85
Mean −5672
Std Dev 0
pull1D
Entries 85
Mean −0.0003812
Std Dev 1.034

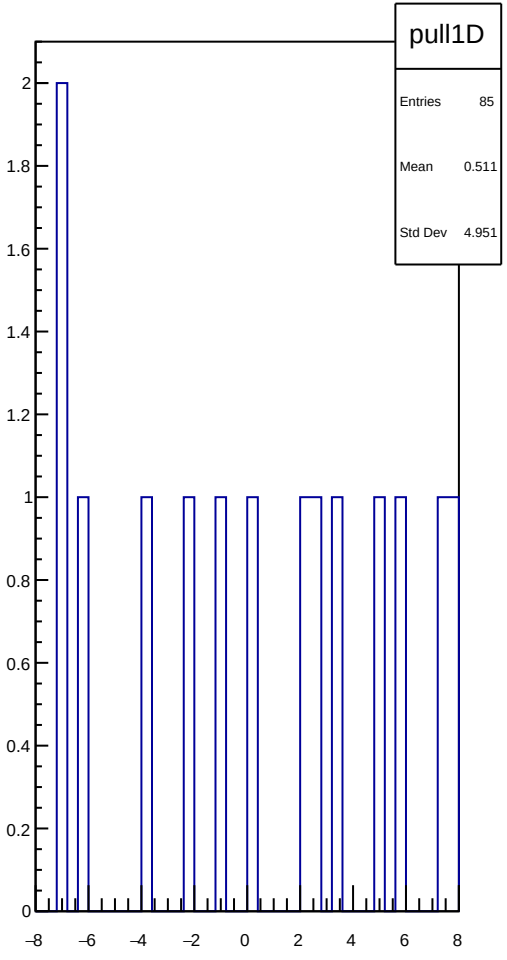

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.83e+04 / 84
p0 44.96 ± 0.03618
80
70
60
50
40
30

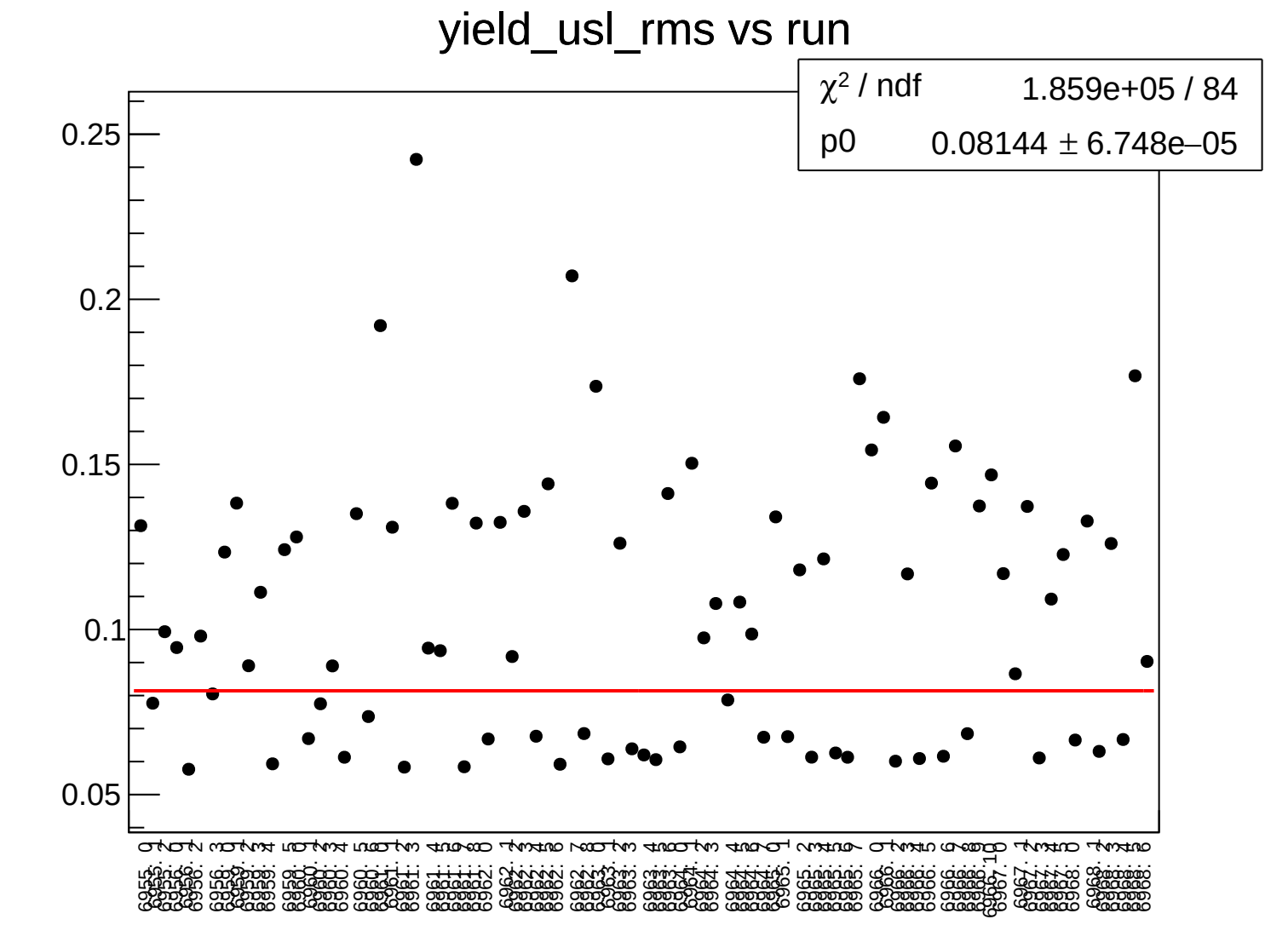

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.45 / 84
p0 6.293e−15 ± 1.205e−14
pull
Entries 85
Mean 29.2
Std Dev 0

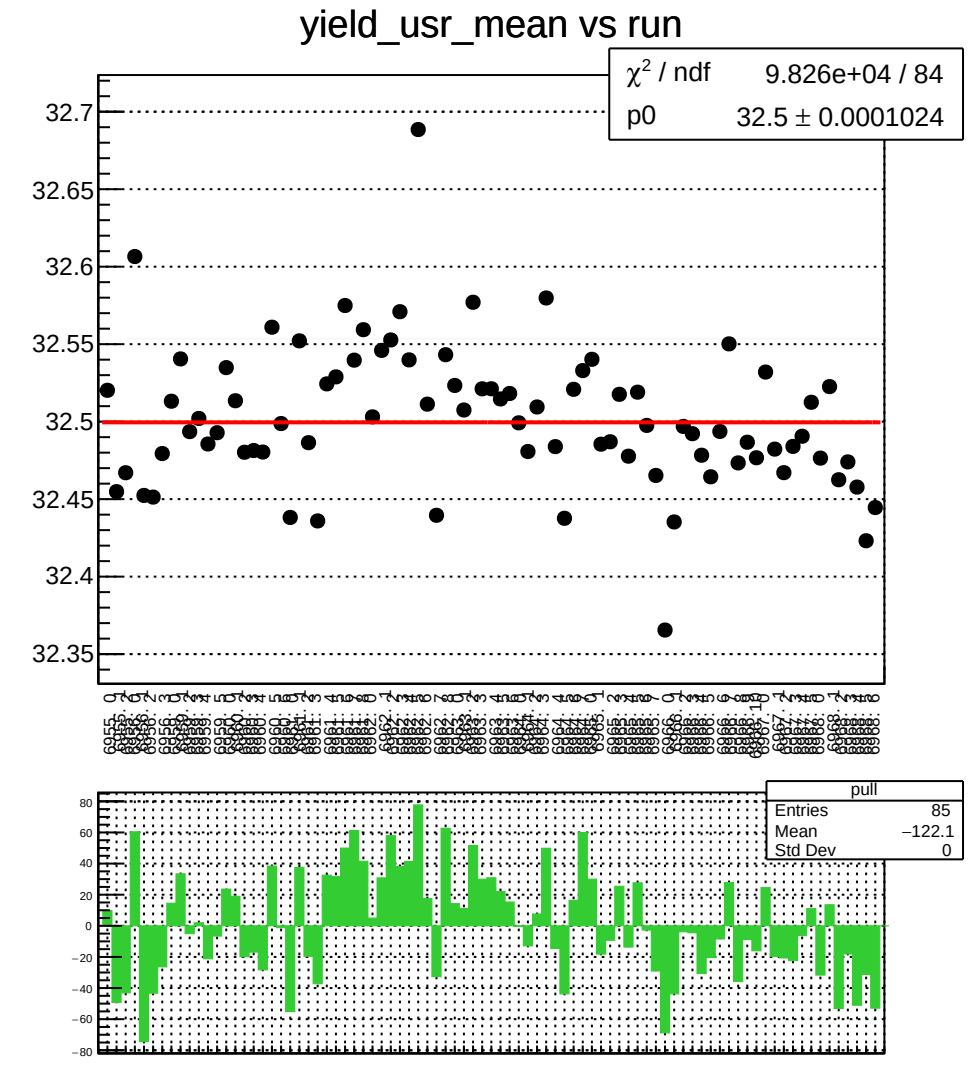

pull1D
Entries 85
Mean 0.1213
Std Dev 0.9216

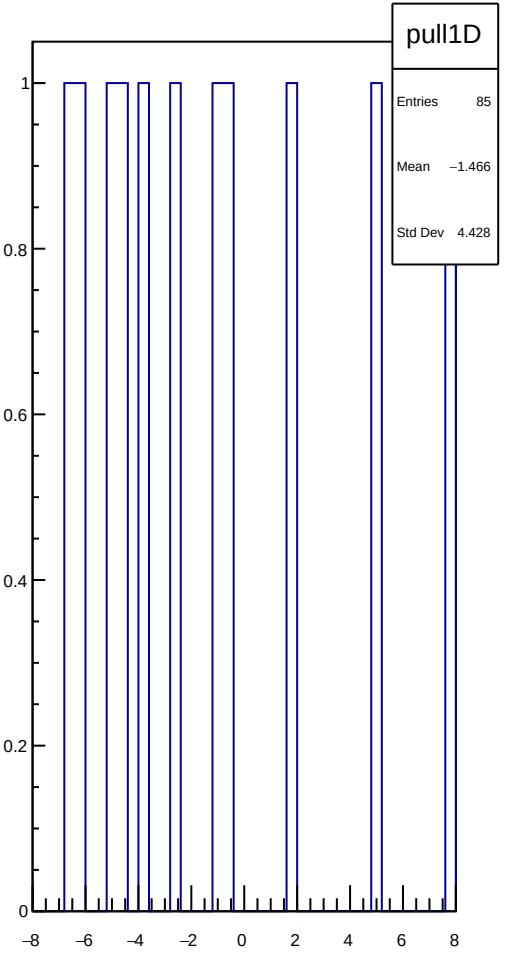

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.771e+05 / 84
p0 6.952e−12 ± 8.522e−15
90
80
70
60
50
40
30
20
10

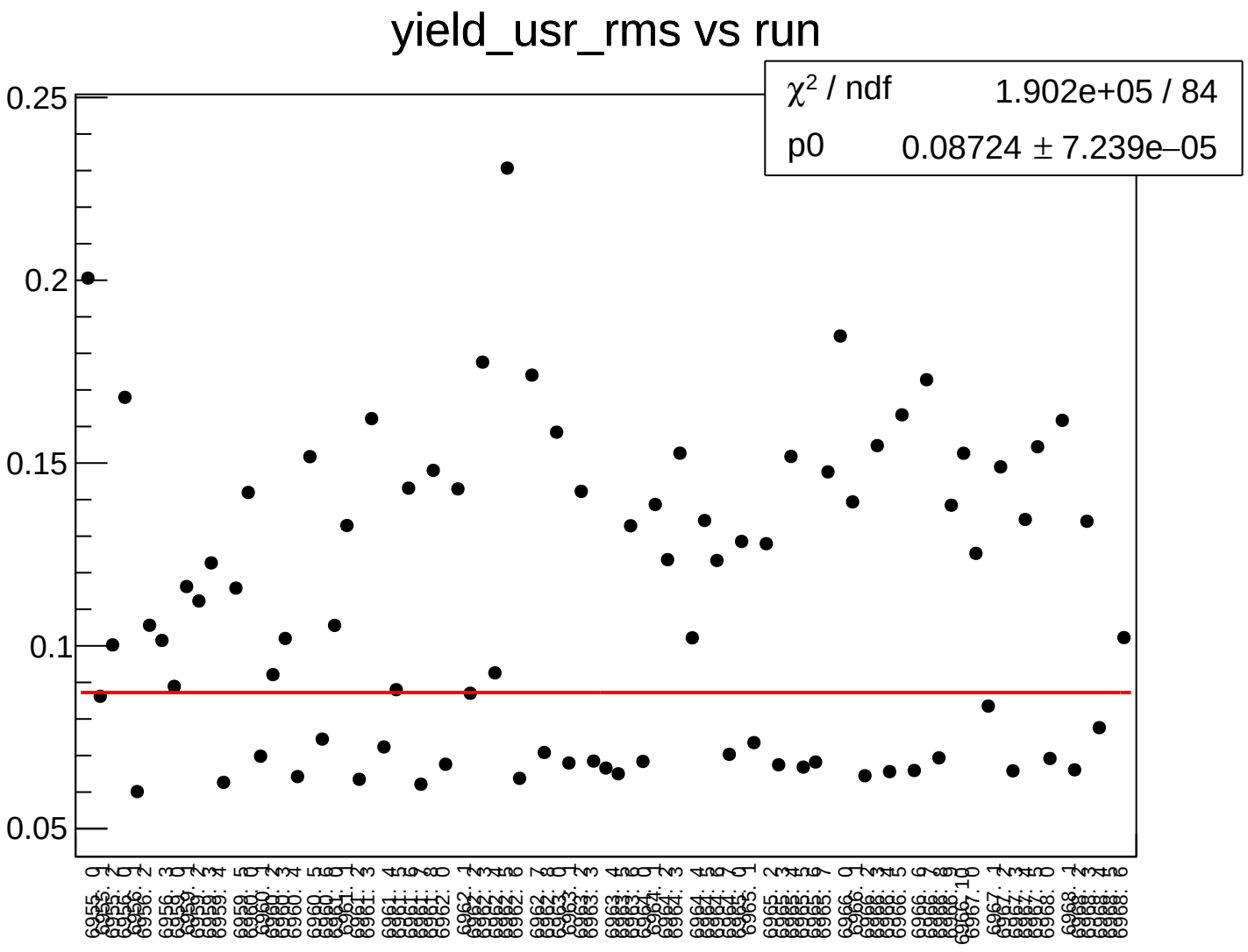

yield_usl_mean vs run
χ² / ndf 1.548e+05 / 84
p0 30.88 ± 9.542e−05
31
30.95
30.9
30.85
30.8
30.75
30.7
pull
Entries 85
Mean 65.99
Std Dev 0
100
50
0
−50
−100

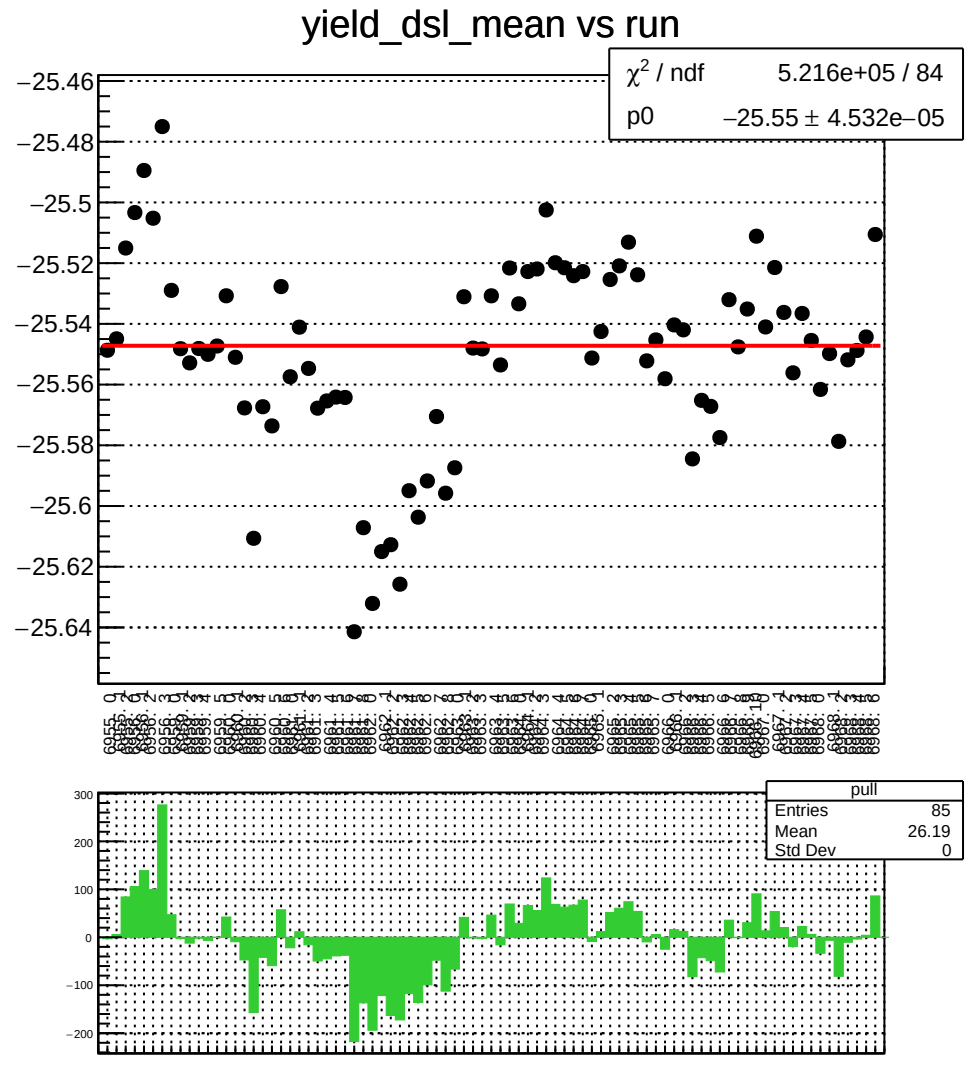

pull1D
Entries 85
Mean 0.511
Std Dev 4.951
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

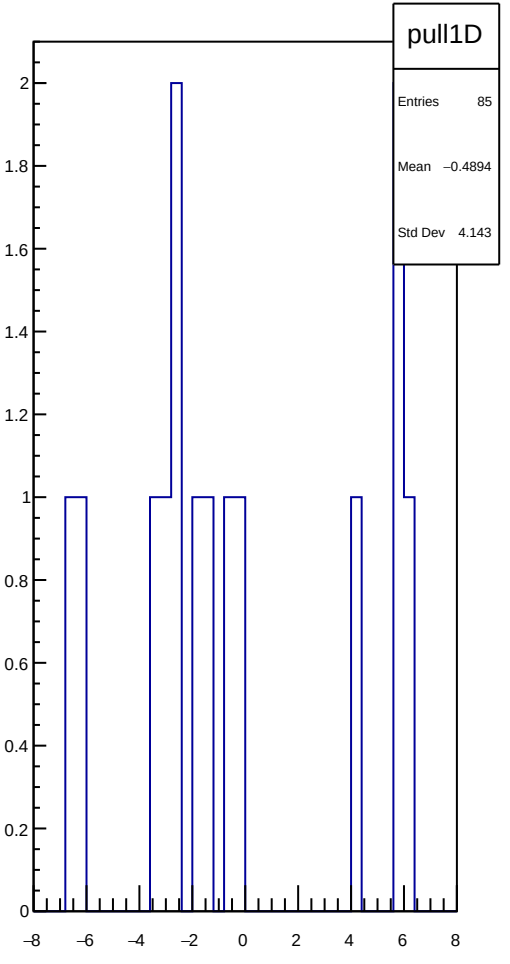

yield_usl_rms vs run
χ² / ndf 1.859e+05 / 84
p0 0.08144 ± 6.748e–05
0.25
0.2
0.15
0.1
0.05

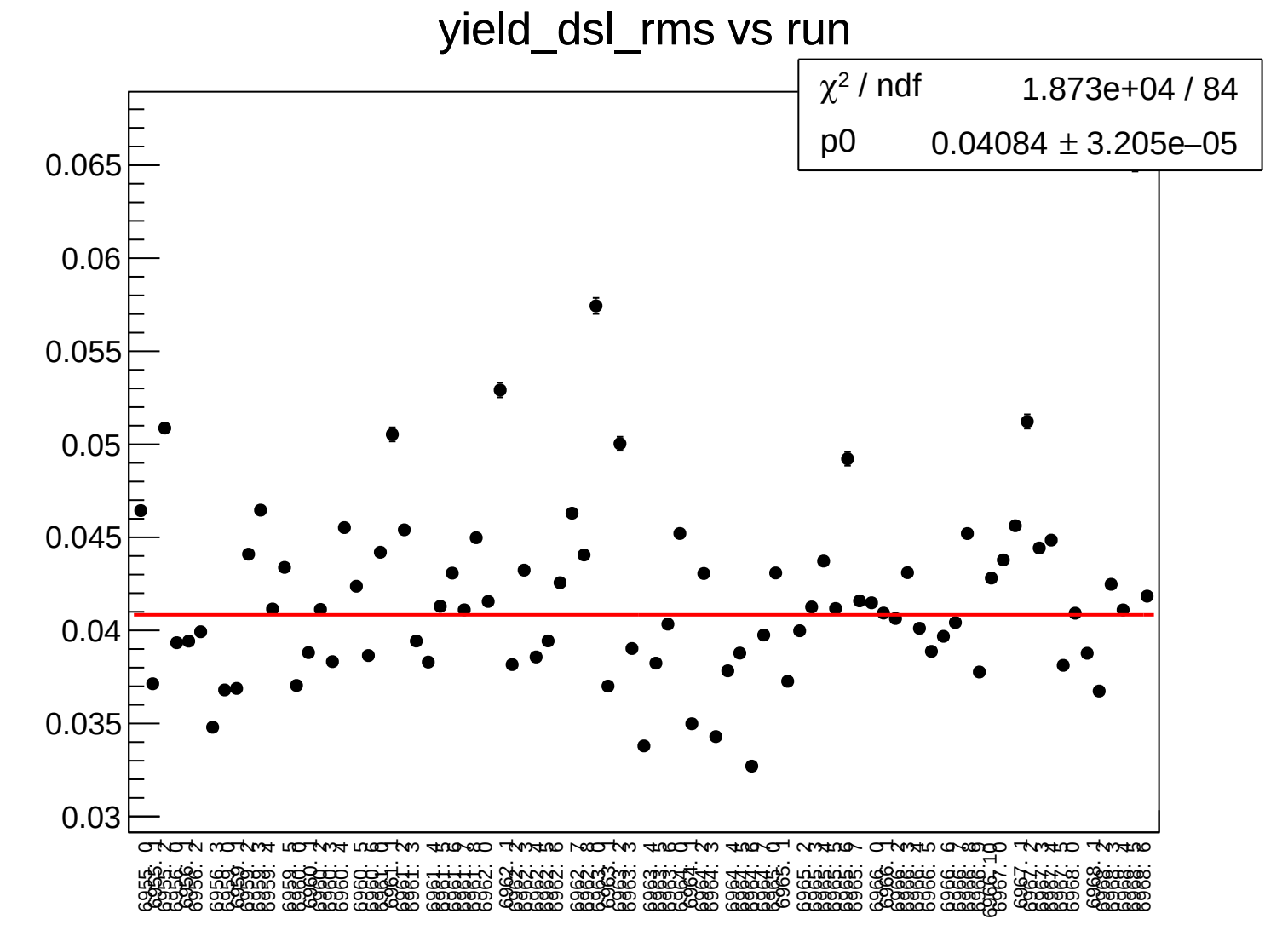

yield_usr_mean vs run
χ² / ndf 9.826e+04 / 84
p0 32.5 ± 0.0001024
32.7
32.65
32.6
32.55
32.5
32.45
32.4
32.35
pull
Entries 85
Mean −122.1
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

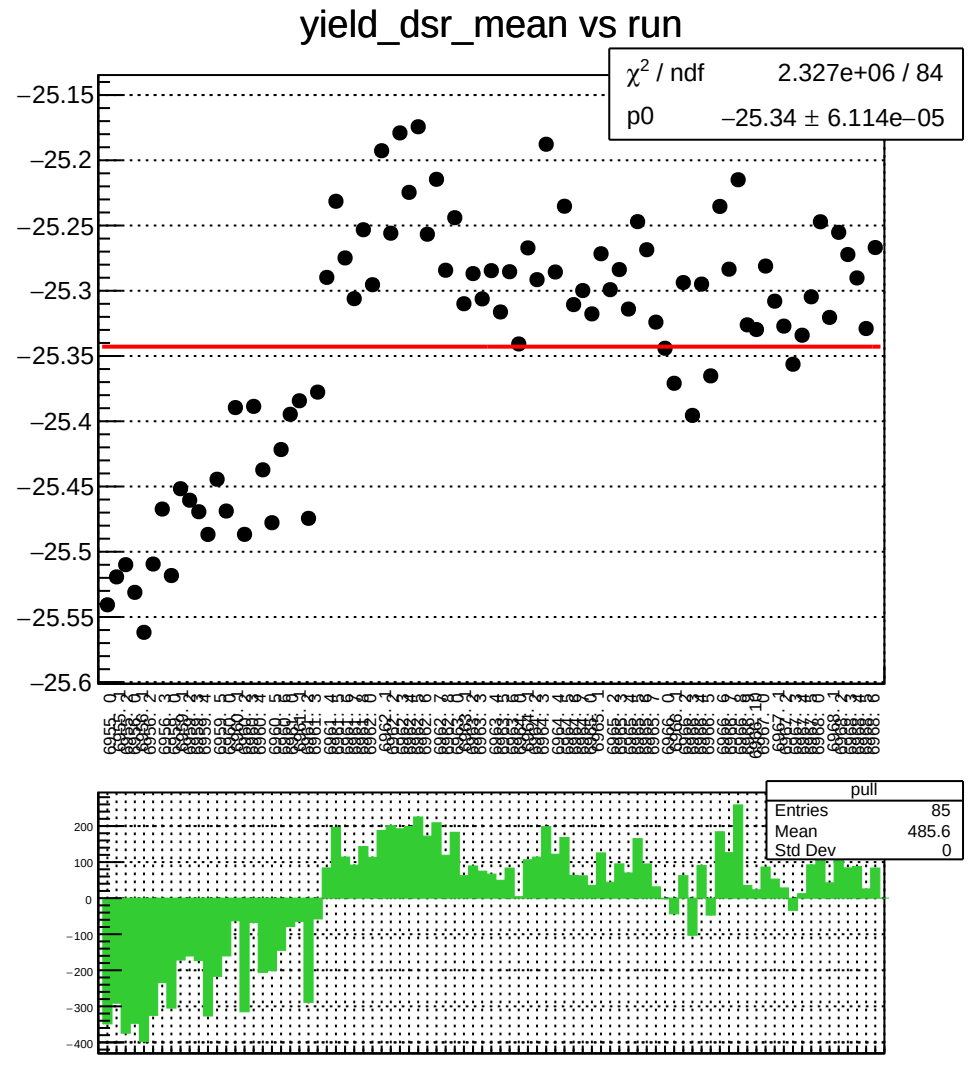

pull1D
Entries 85
Mean −1.466
Std Dev 4.428
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

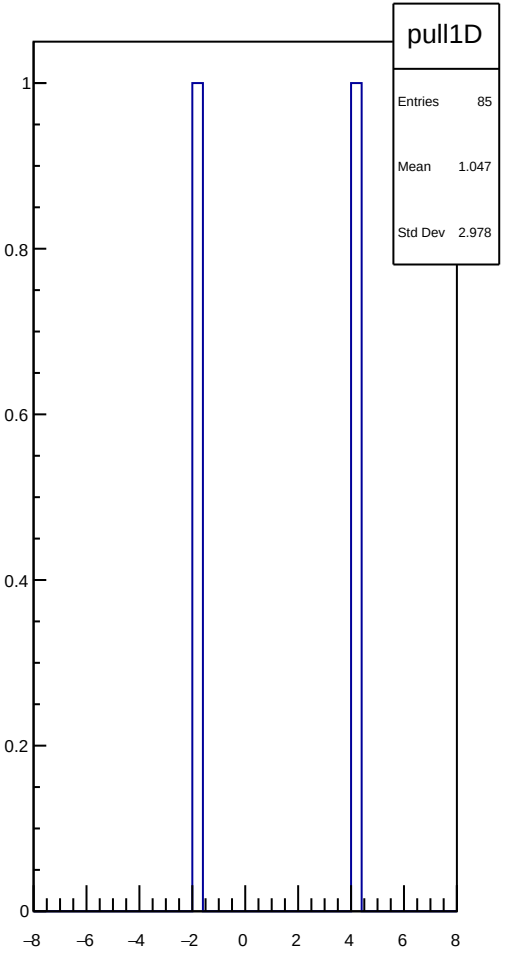

yield_usr_rms vs run
χ² / ndf 1.902e+05 / 84
p0 0.08724 ± 7.239e–05
0.25
0.2
0.15
0.1
0.05

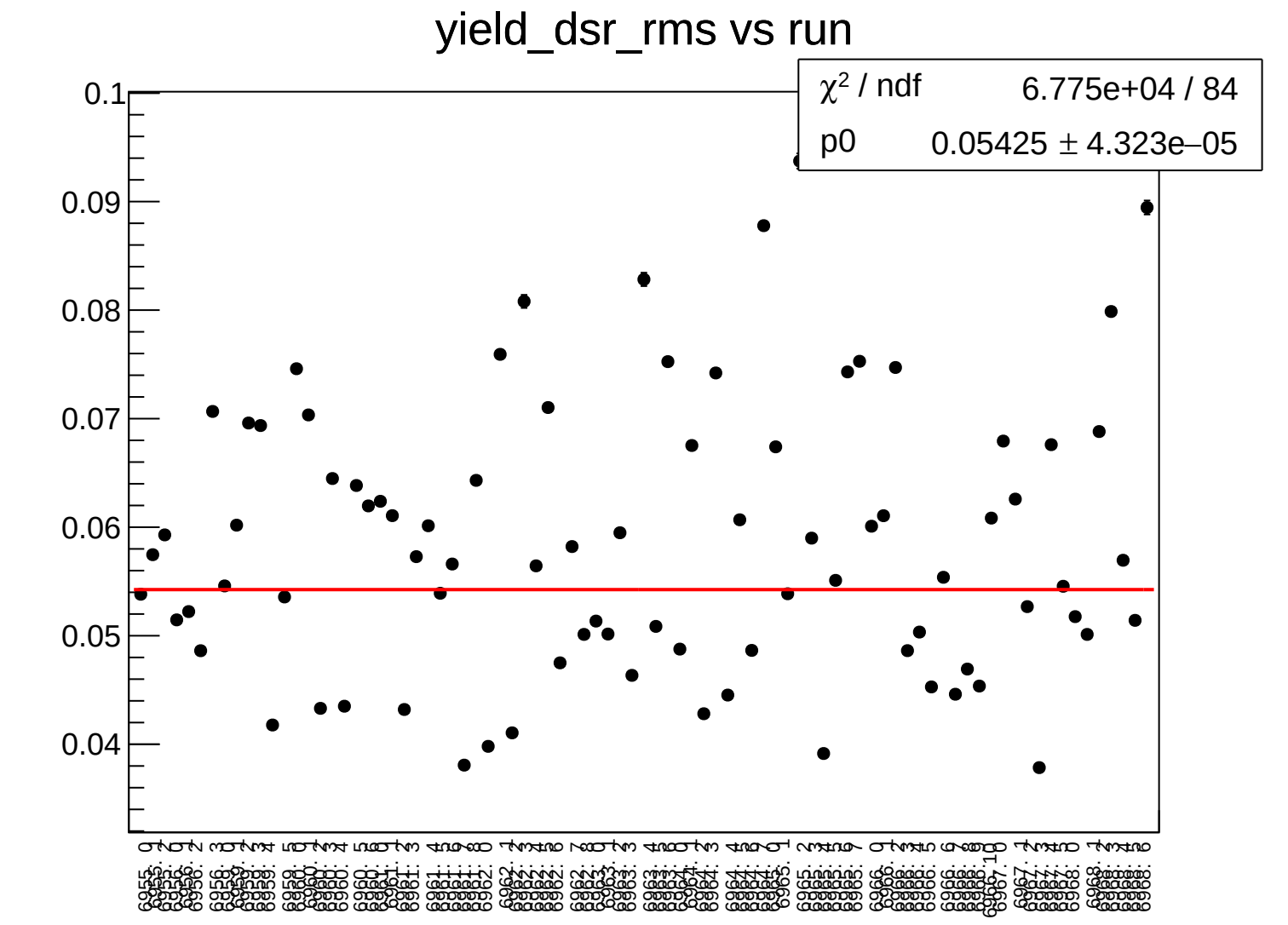

yield_dsl_mean vs run
χ² / ndf 5.216e+05 / 84
p0 −25.55 ± 4.532e−05
−25.46
−25.48
−25.5
−25.52
−25.54
−25.56
−25.58
−25.6
−25.62
−25.64
pull
Entries 85
Mean 26.19
Std Dev 0
300
200
100
0
−100
−200

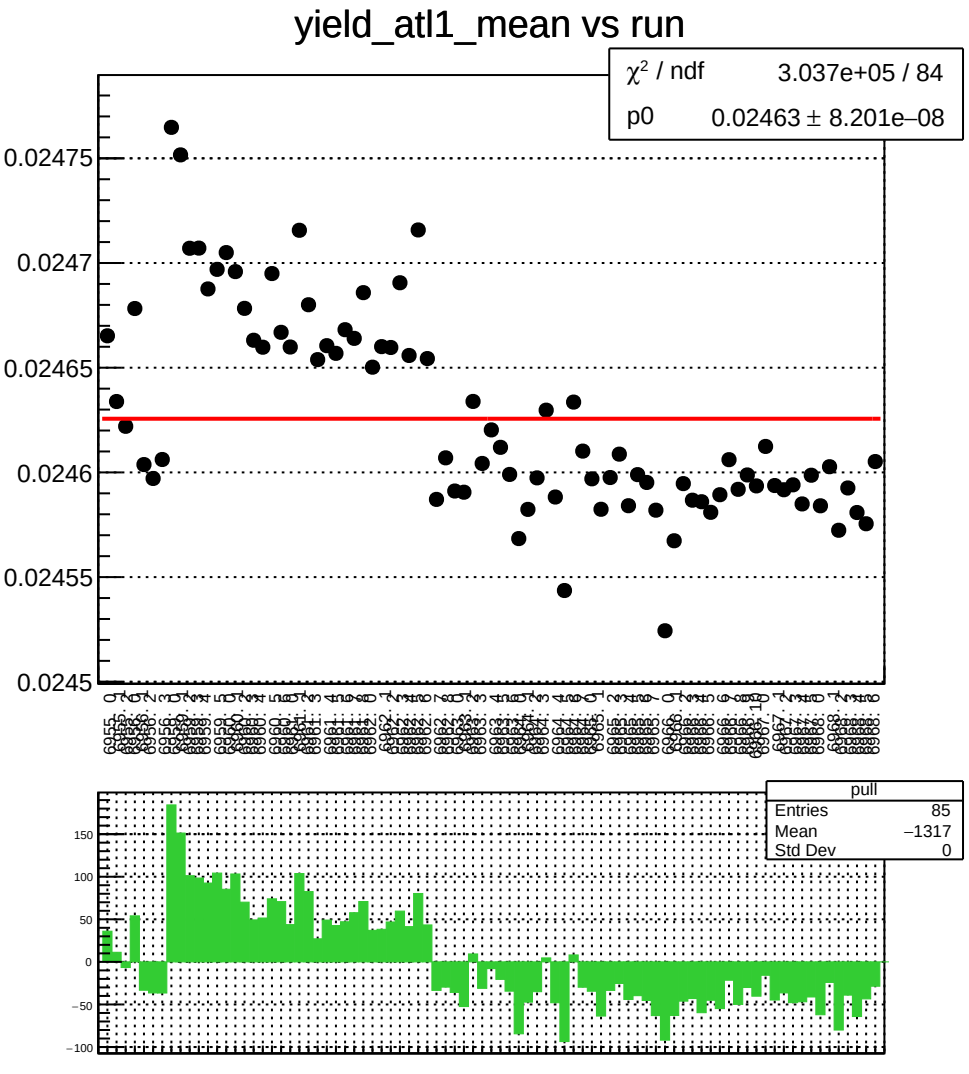

pull1D
Entries 85
Mean −0.4894
Std Dev 4.143
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

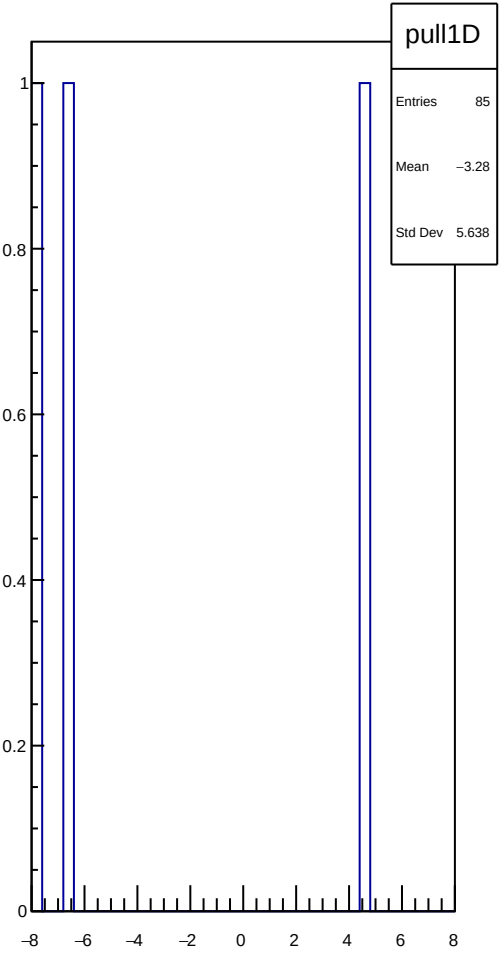

yield_dsl_rms vs run
χ² / ndf 1.873e+04 / 84
p0 0.04084 ± 3.205e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03

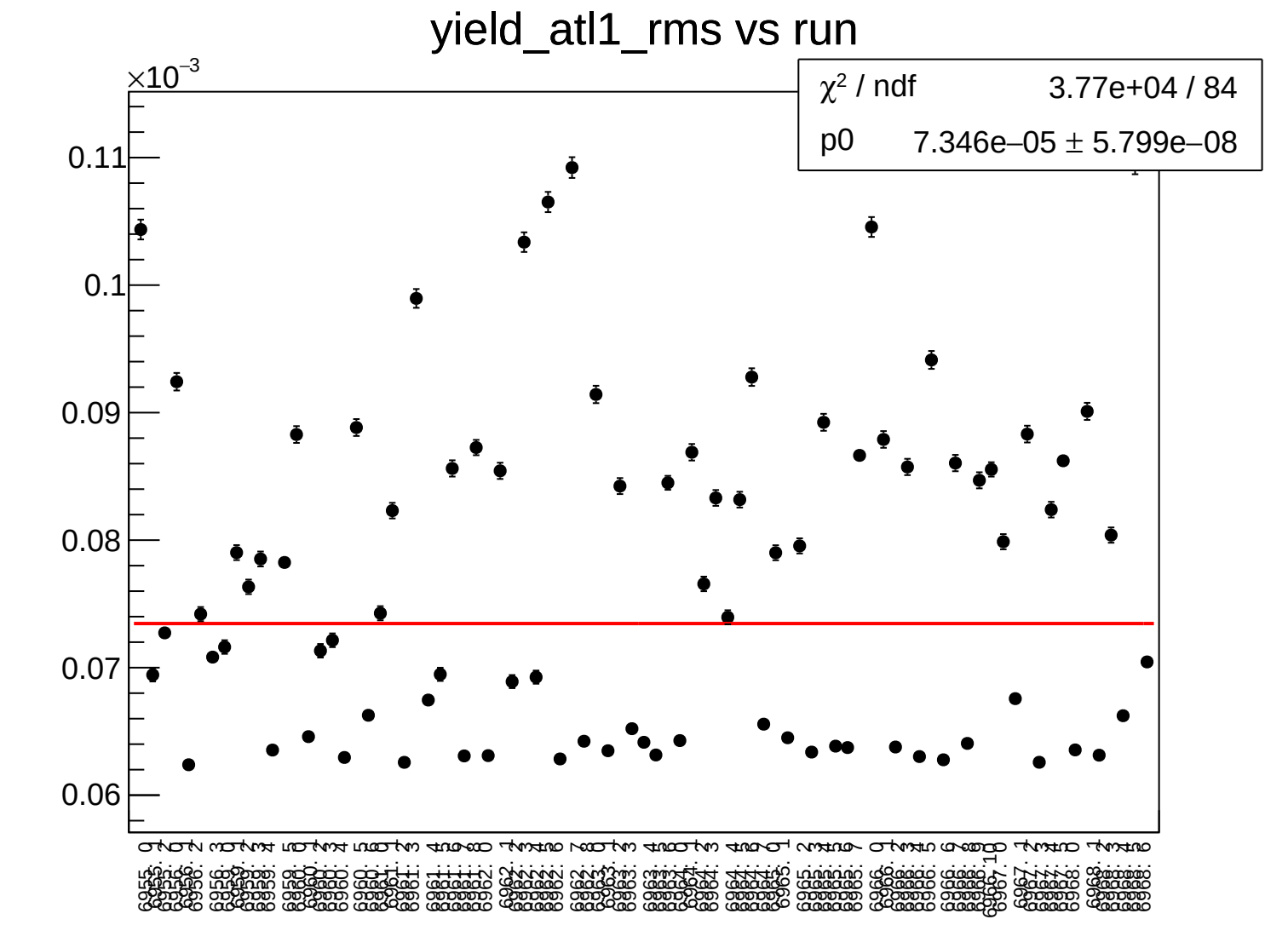

yield_dsr_mean vs run
χ² / ndf 2.327e+06 / 84
p0 −25.34 ± 6.114e−05
−25.15
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
pull
Entries 85
Mean 485.6
Std Dev 0
200
100
0
−100
−200
−300
−400

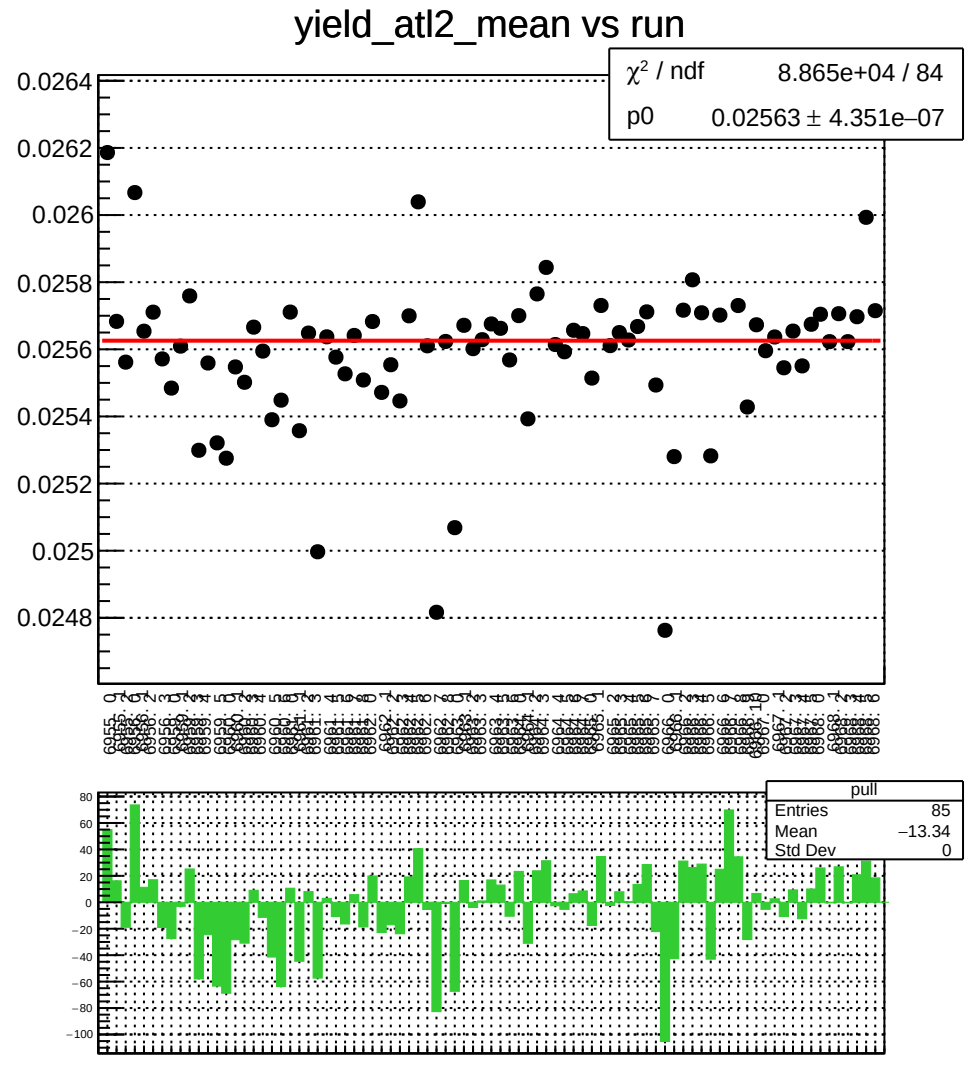

pull1D
Entries 85
Mean 1.047
Std Dev 2.978
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

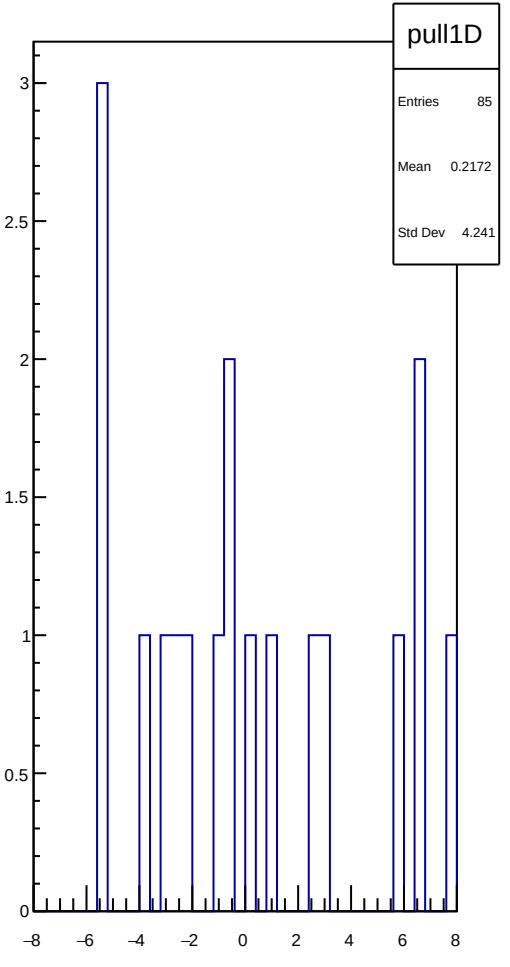

yield_dsr_rms vs run
χ² / ndf 6.775e+04 / 84
p0 0.05425 ± 4.323e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

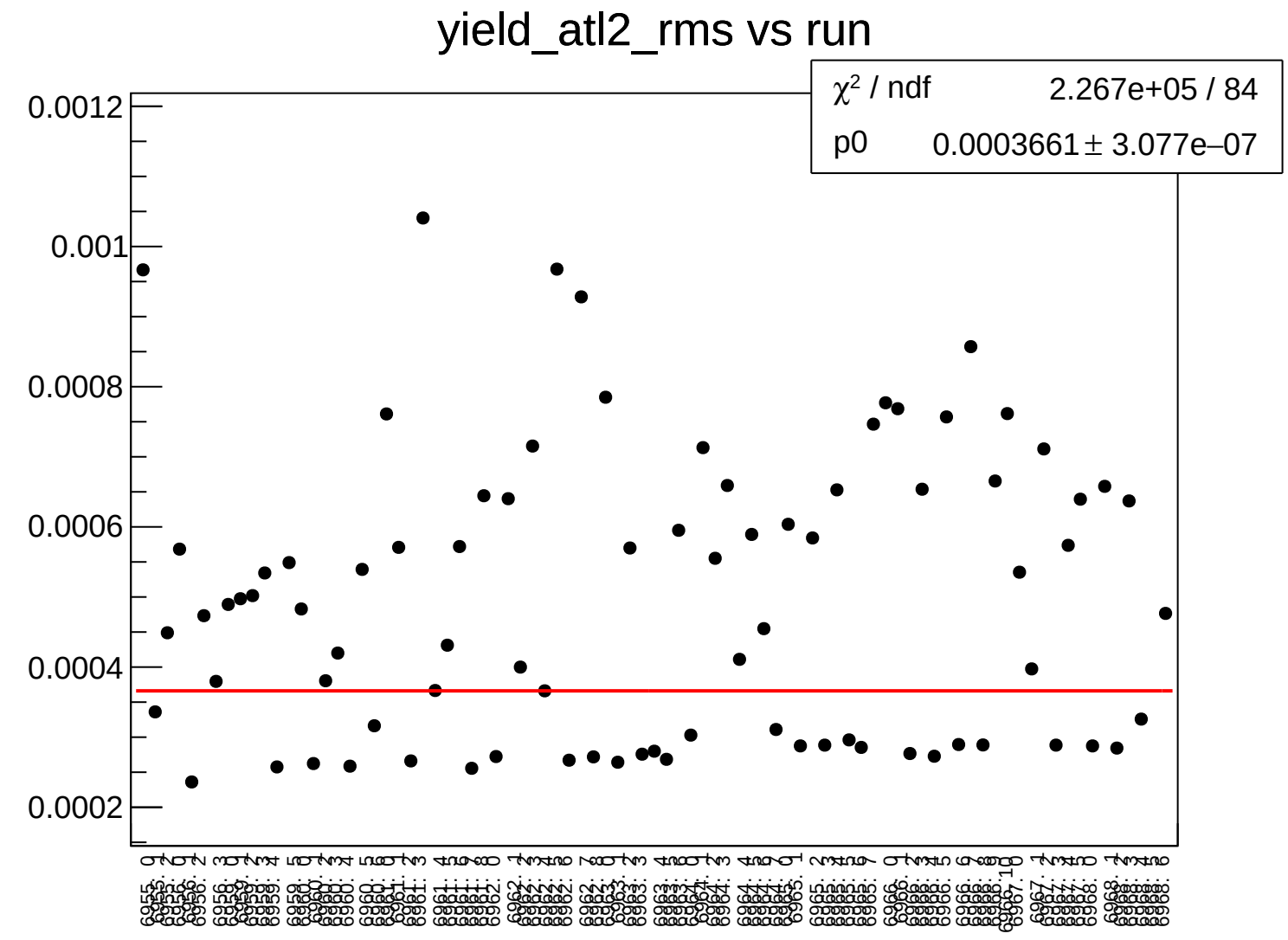

yield_atl1_mean vs run
χ² / ndf 3.037e+05 / 84
p0 0.02463 ± 8.201e−08
0.02475
0.0247
0.02465
0.0246
0.02455
0.0245
pull
Entries 85
Mean −1317
Std Dev 0
150
100
50
0
−50
−100

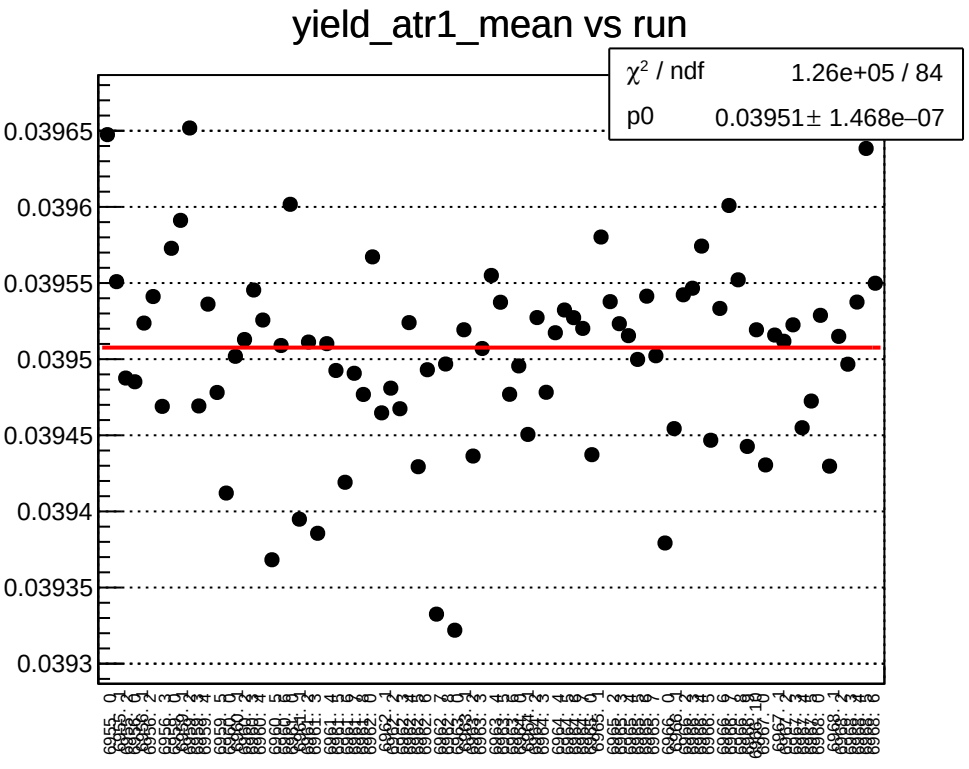

pull1D
Entries 85
Mean −3.28
Std Dev 5.638
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

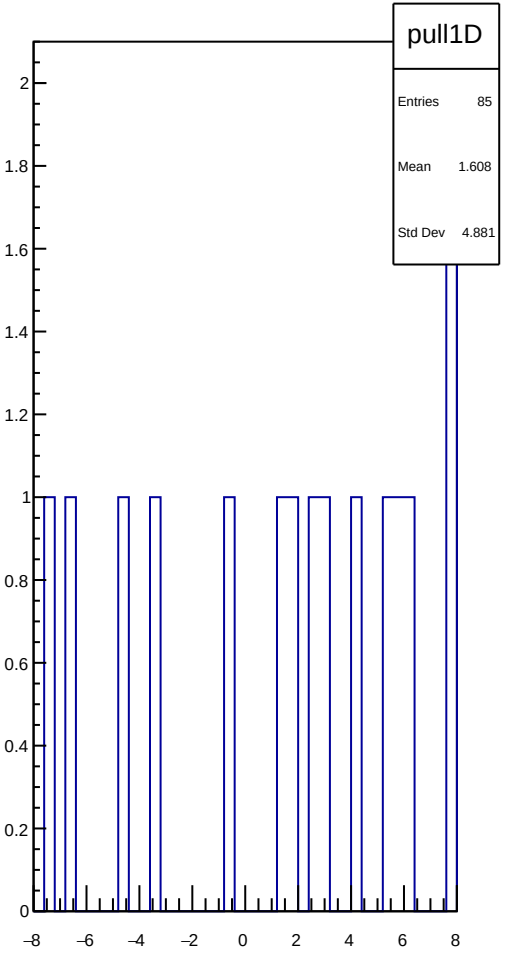

yield_atl1_rms vs run
×10⁻³
χ² / ndf 3.77e+04 / 84
p0 7.346e−05 ± 5.799e−08
0.11
0.1
0.09
0.08
0.07
0.06

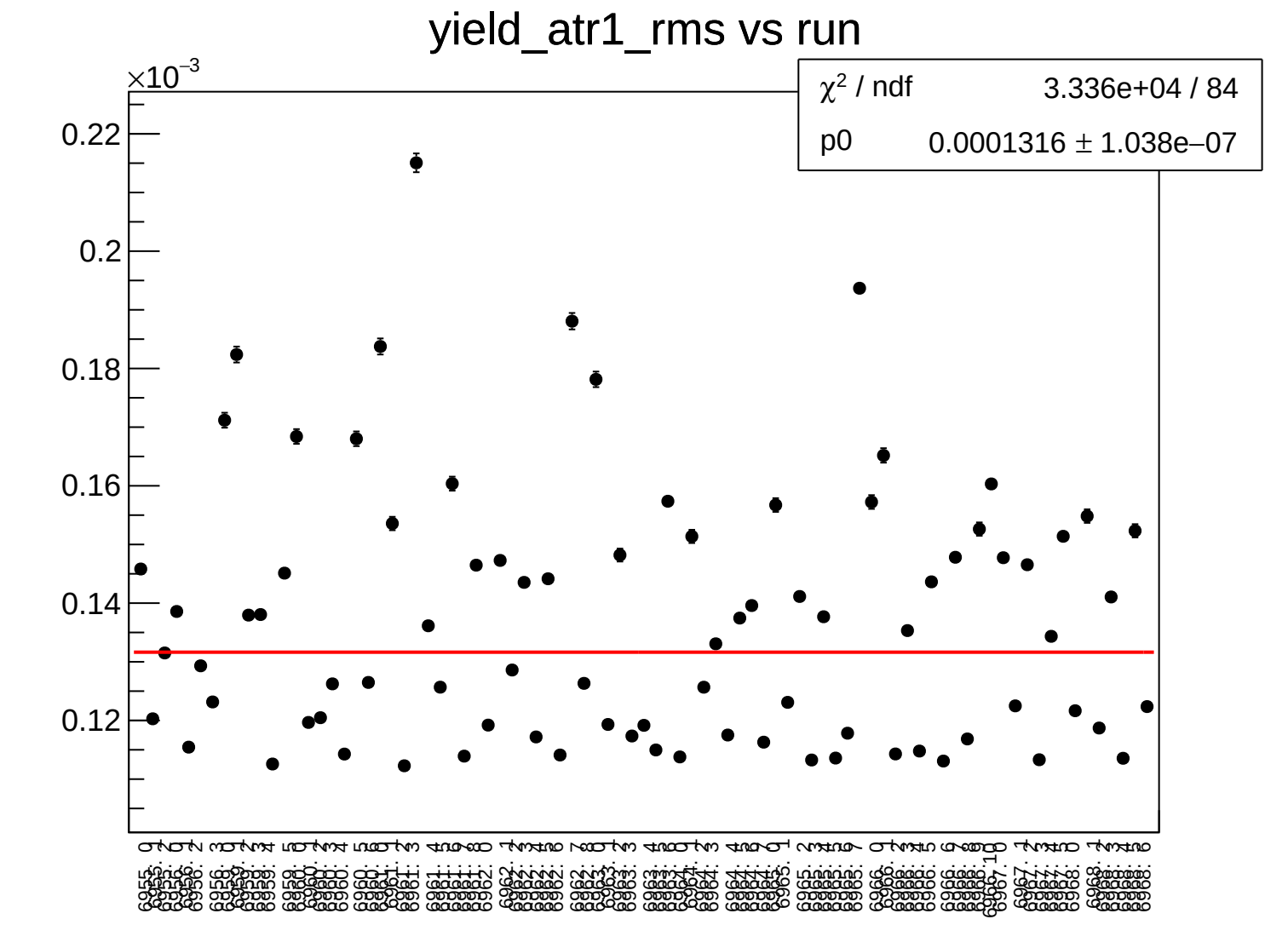

yield_atl2_mean vs run
χ² / ndf 8.865e+04 / 84
p0 0.02563 ± 4.351e−07
0.0264
0.0262
0.026
0.0258
0.0256
0.0254
0.0252
0.025
0.0248
pull
Entries 85
Mean −13.34
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

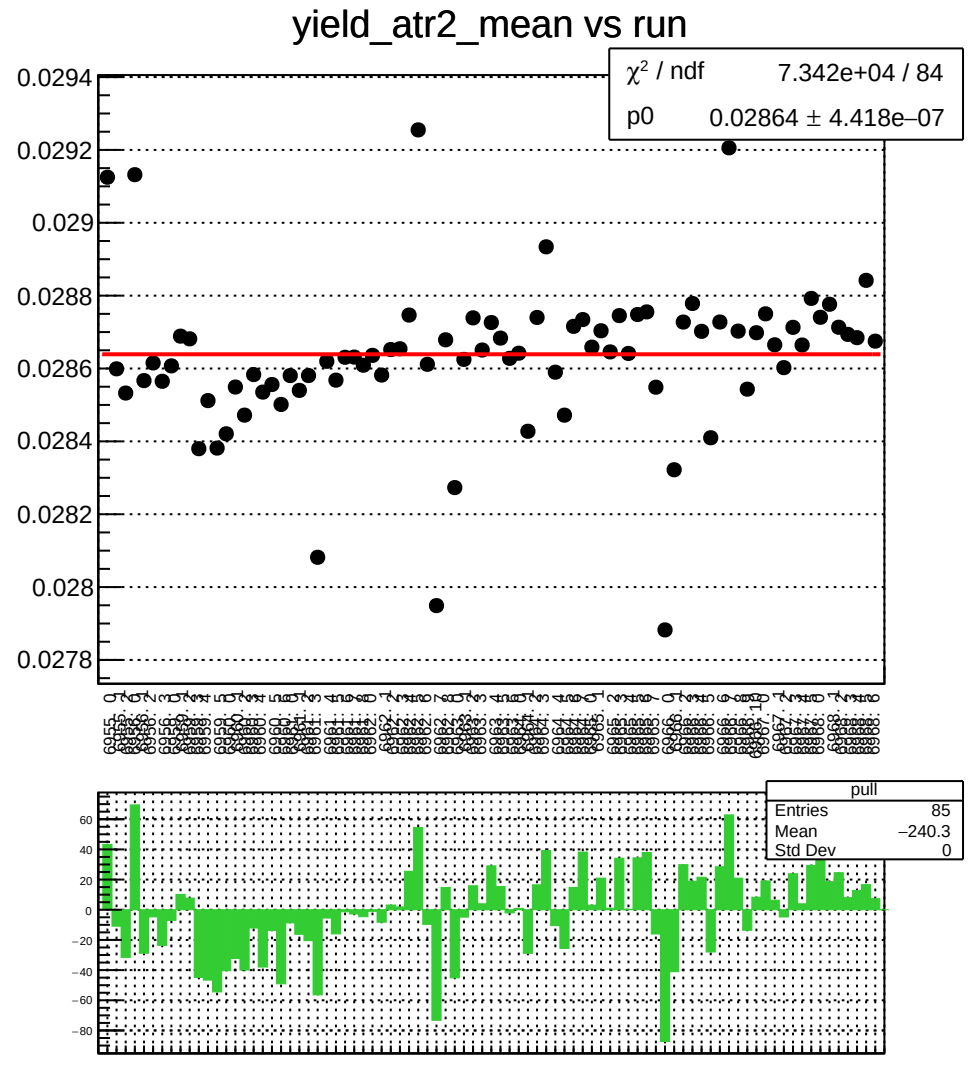

pull1D
Entries 85
Mean 0.2172
Std Dev 4.241
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

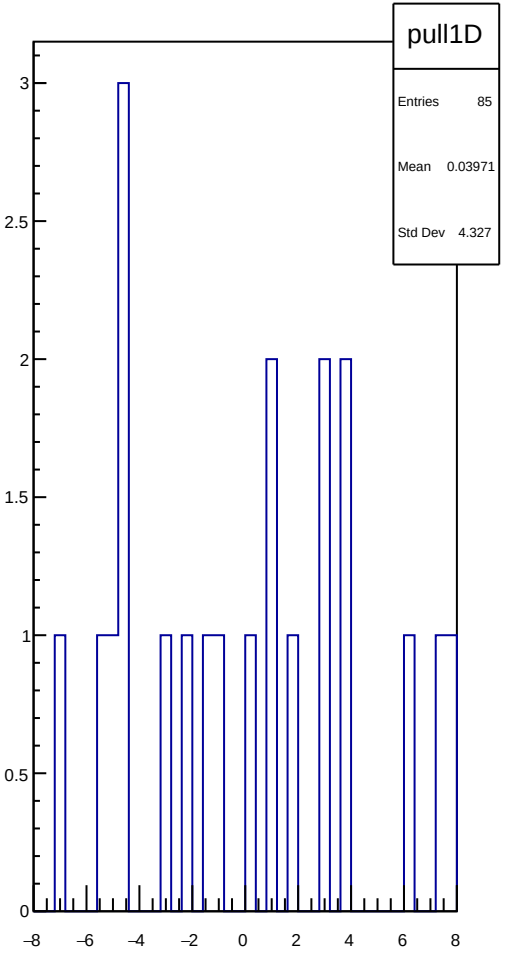

yield_atl2_rms vs run
χ² / ndf 2.267e+05 / 84
p0 0.0003661 ± 3.077e–07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

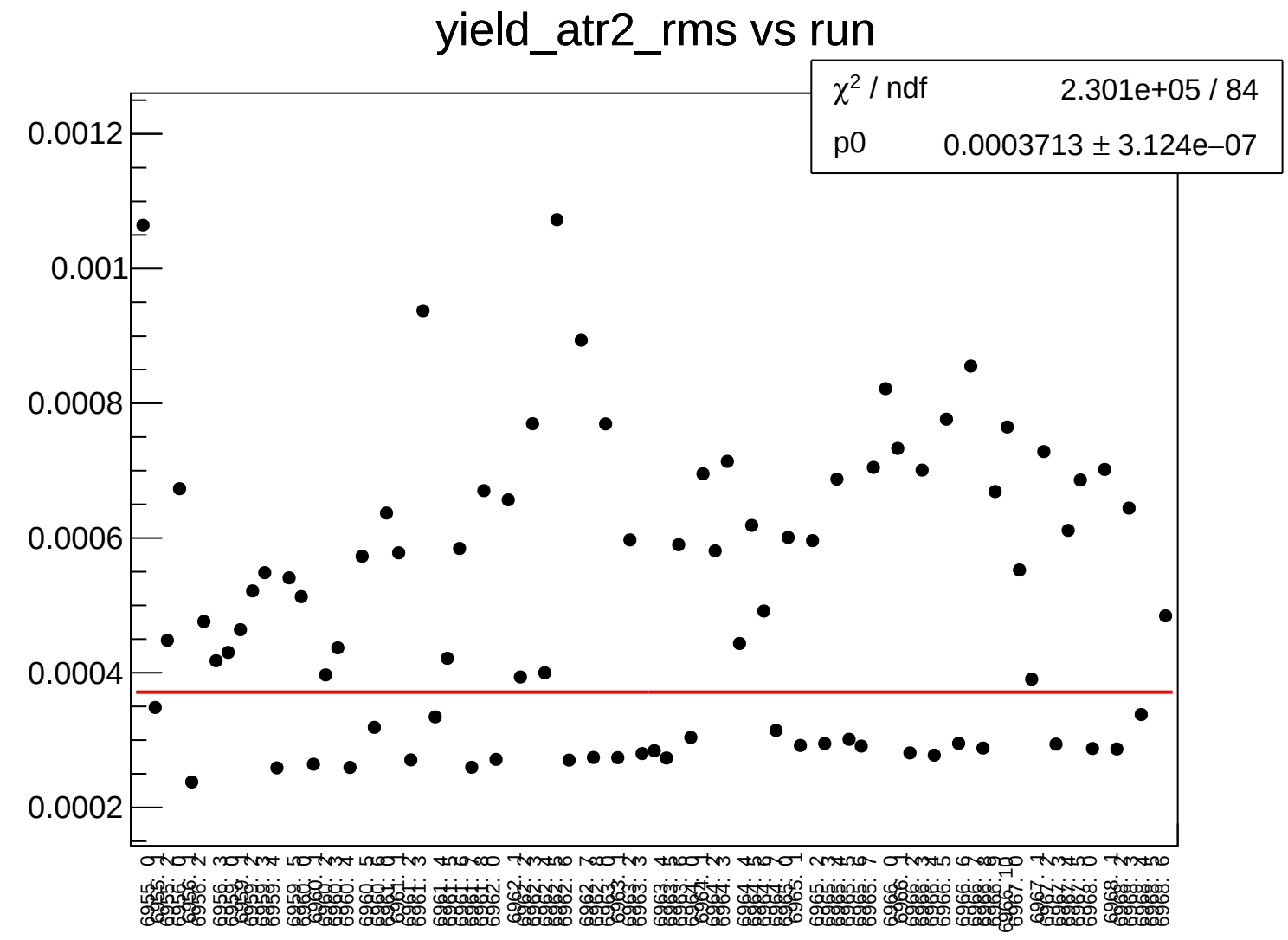

yield_atr1_mean vs run
χ² / ndf 1.26e+05 / 84
p0 0.03951± 1.468e−07
0.03965
0.0396
0.03955
0.0395
0.03945
0.0394
0.03935
0.0393
pull
Entries 85
Mean 29.17
Std Dev 0
100
50
0
−50
−100

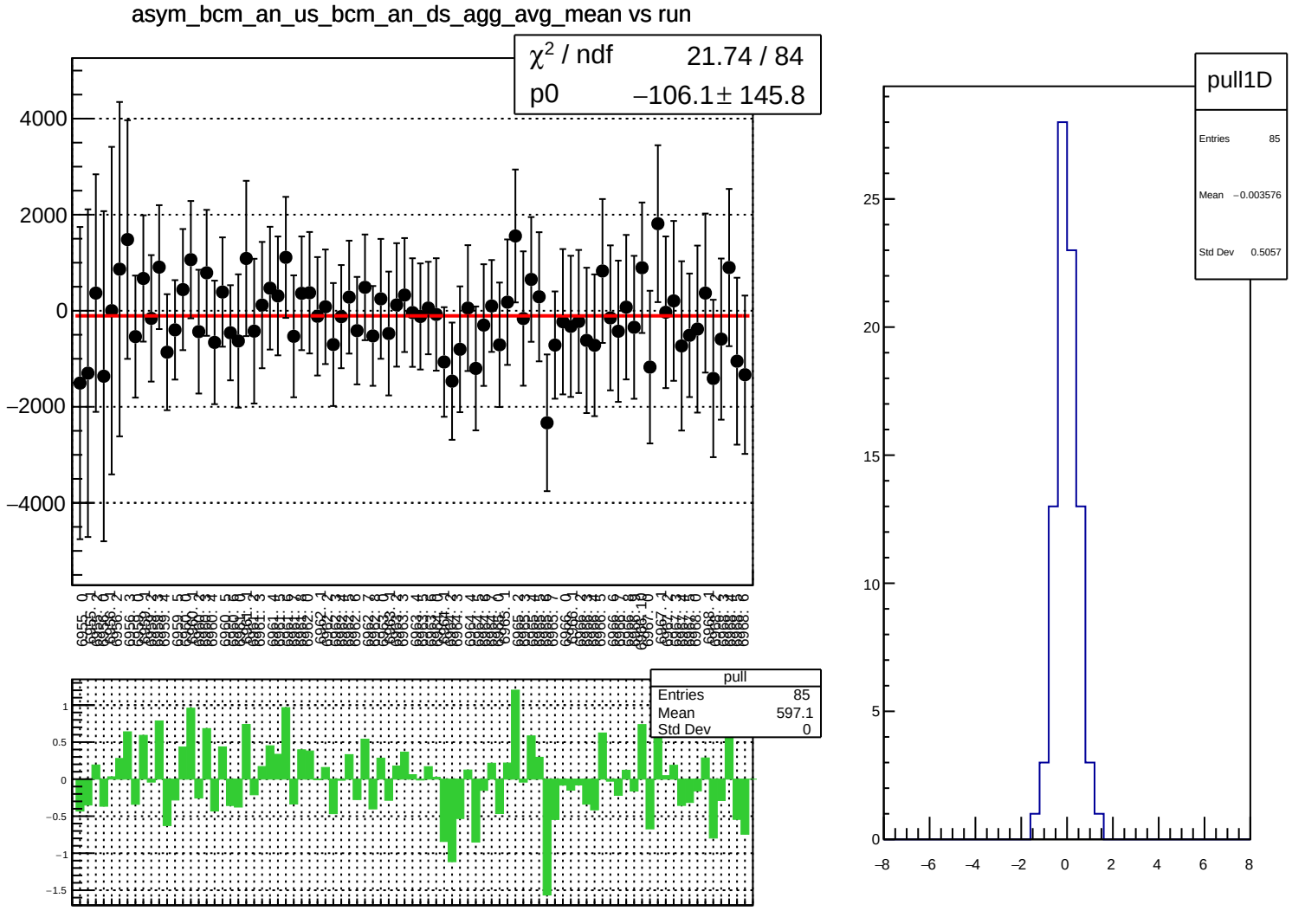

pull1D
Entries 85
Mean 1.608
Std Dev 4.881
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

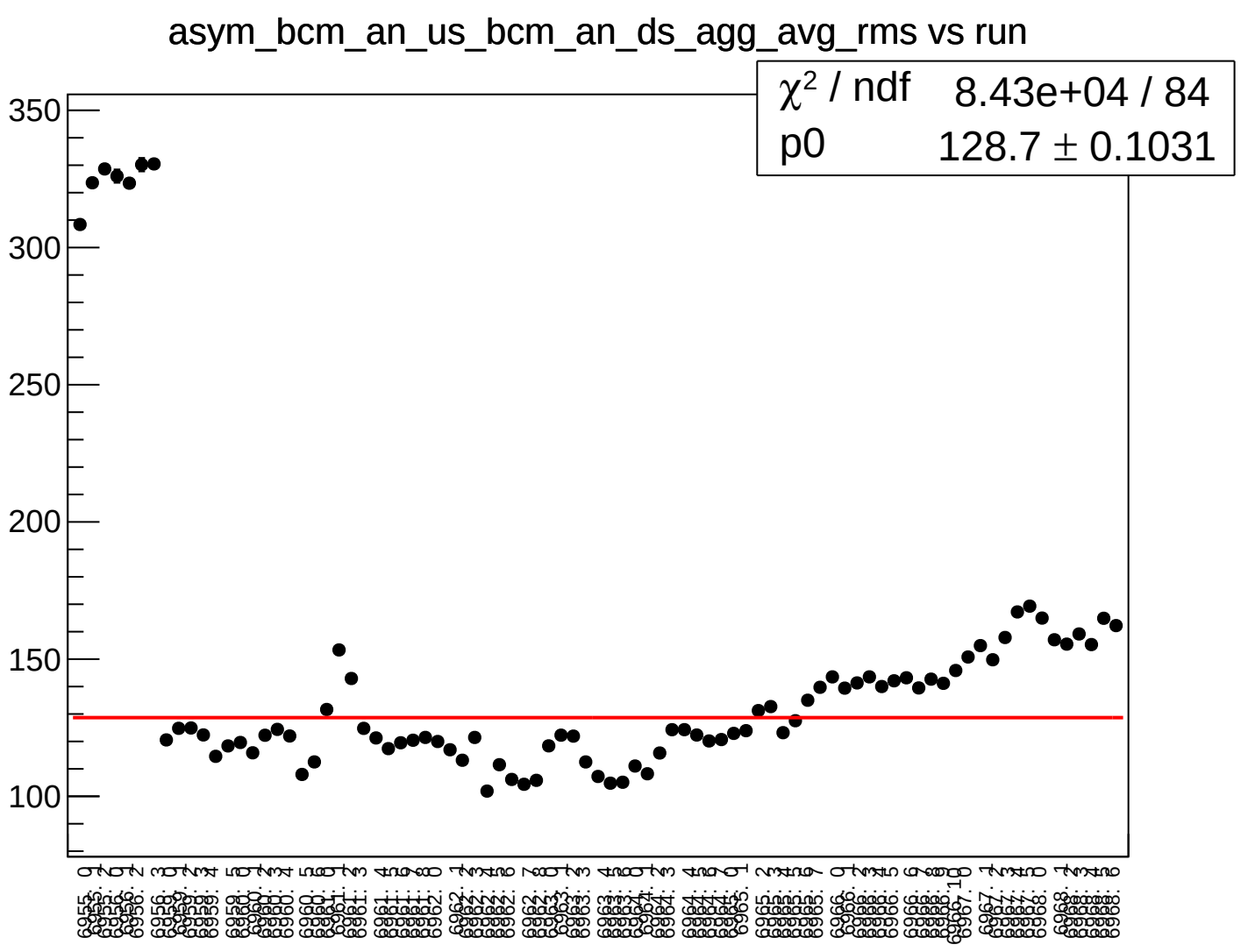

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3.336e+04 / 84
p0 0.0001316 ± 1.038e−07
0.22
0.2
0.18
0.16
0.14
0.12

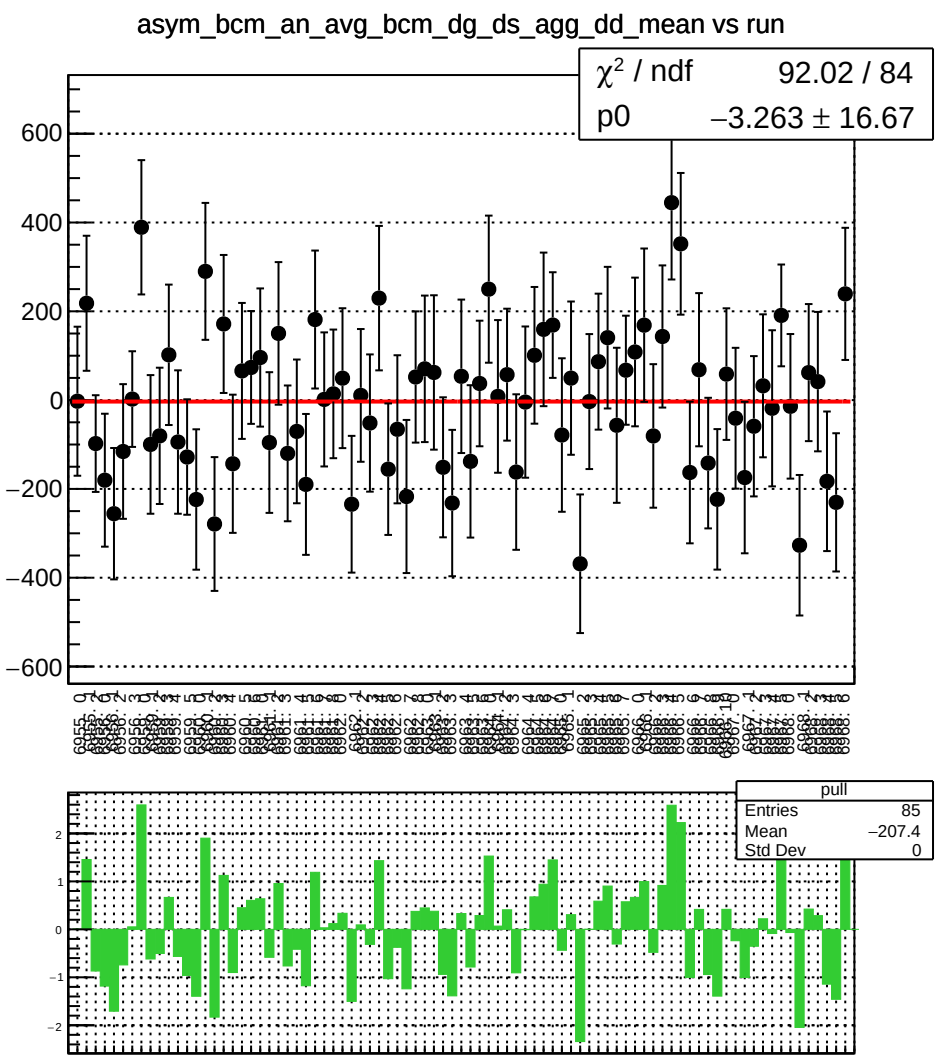

yield_atr2_mean vs run
χ² / ndf 7.342e+04 / 84
p0 0.02864 ± 4.418e–07
0.0294
0.0292
0.029
0.0288
0.0286
0.0284
0.0282
0.028
0.0278
pull
Entries 85
Mean –240.3
Std Dev 0
60
40
20
0
–20
–40
–60
–80

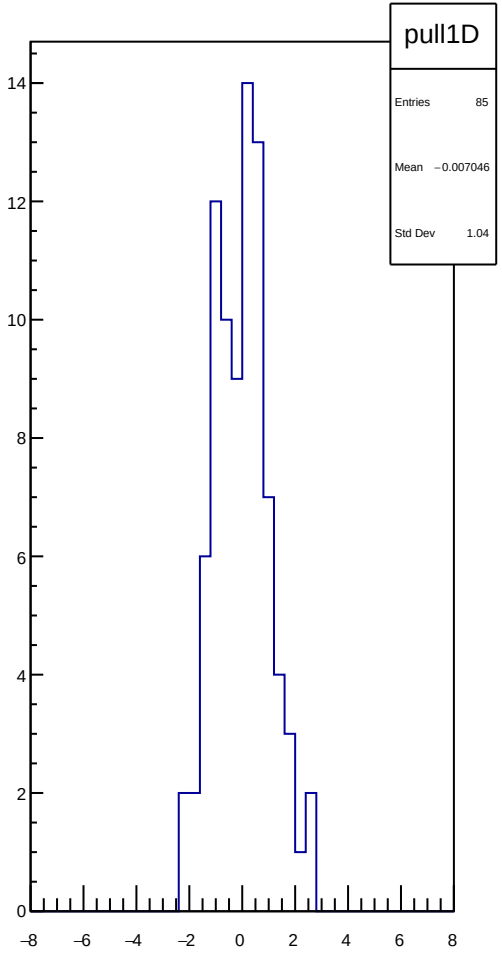

pull1D
Entries 85
Mean 0.03971
Std Dev 4.327
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8

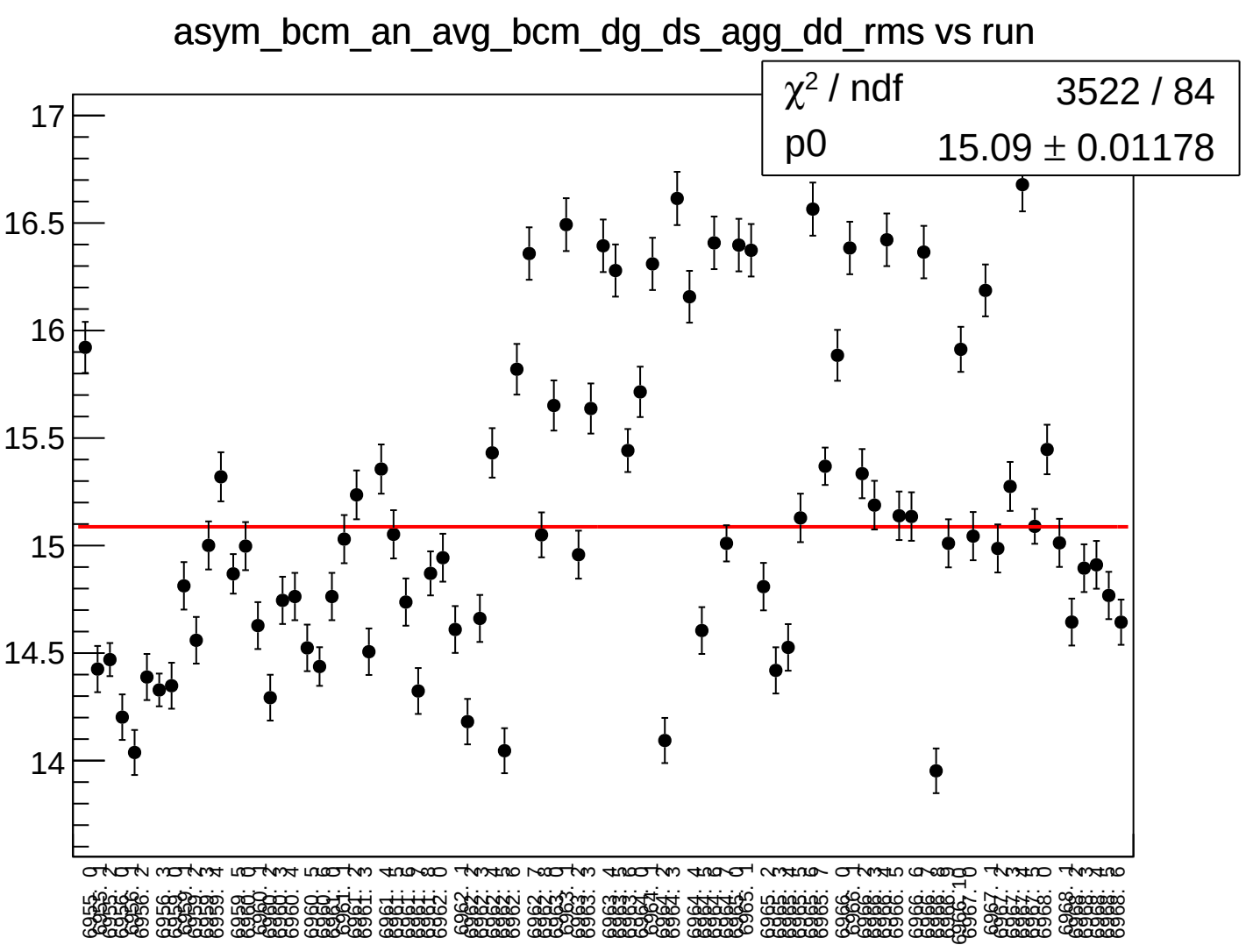

yield_atr2_rms vs run
χ² / ndf 2.301e+05 / 84
p0 0.0003713 ± 3.124e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

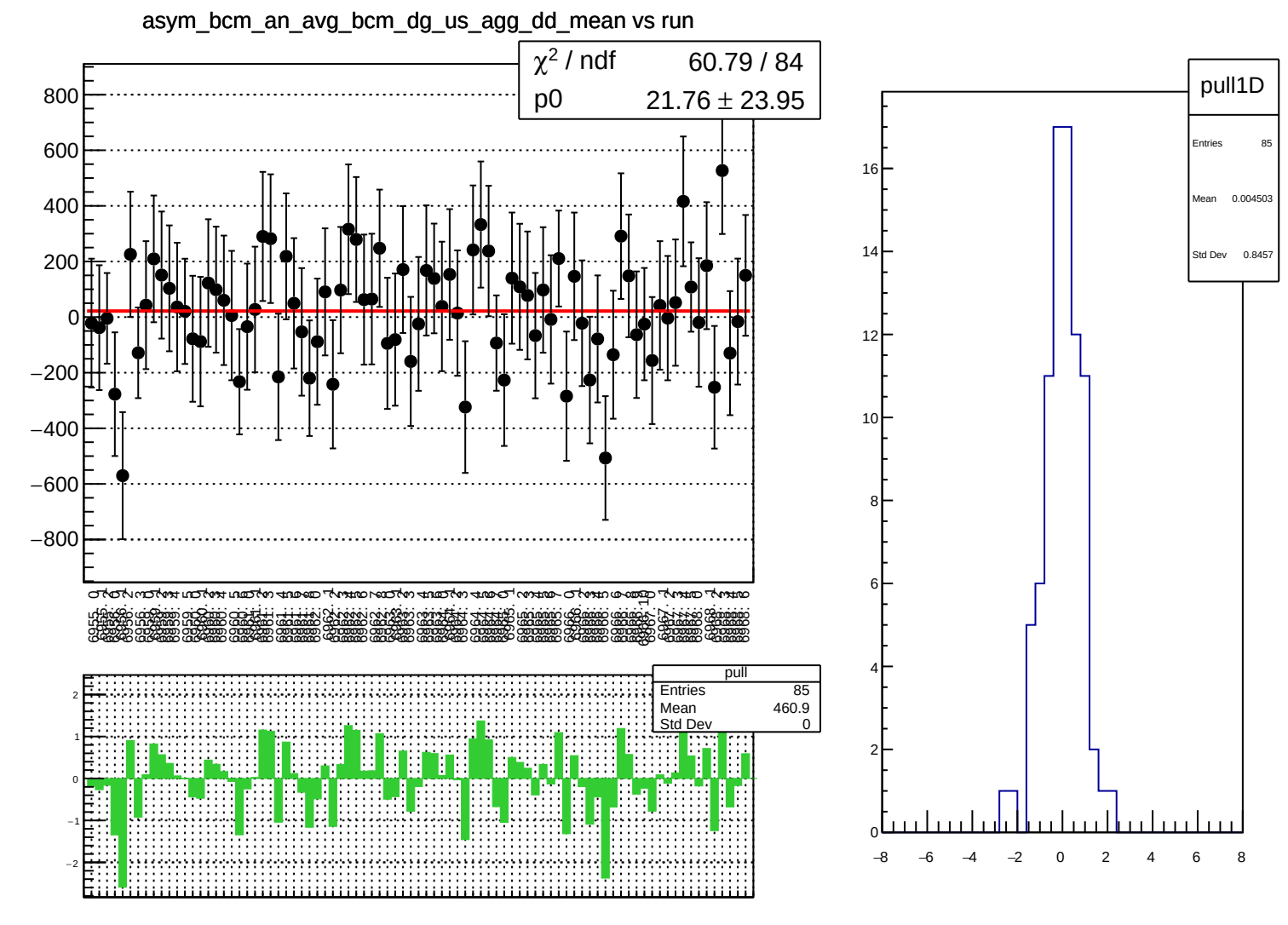

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.74 / 84
p0 −106.1± 145.8
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 597.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.003576
Std Dev 0.5057
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

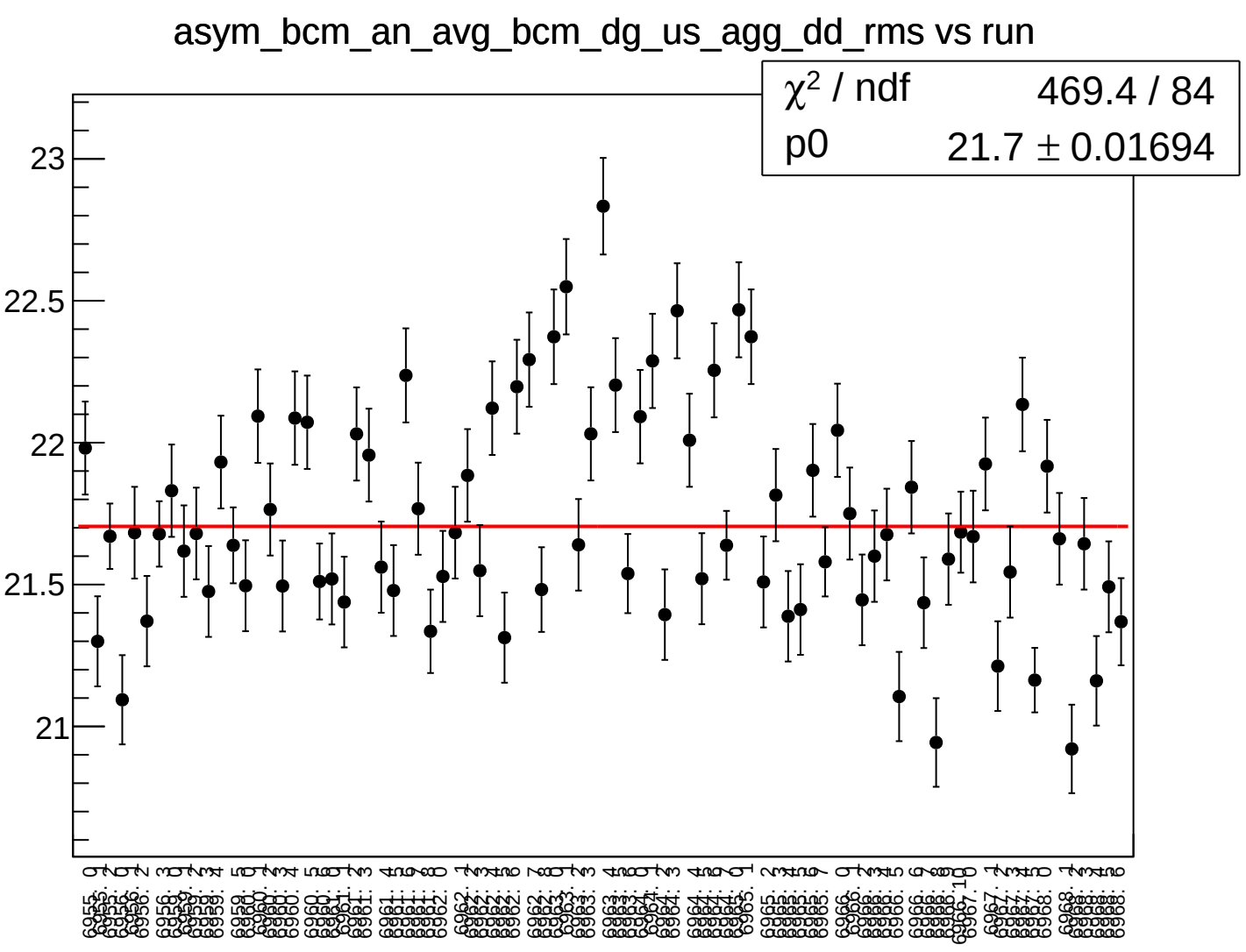

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8.43e+04 / 84
p0 128.7 ± 0.1031
350
300
250
200
150
100

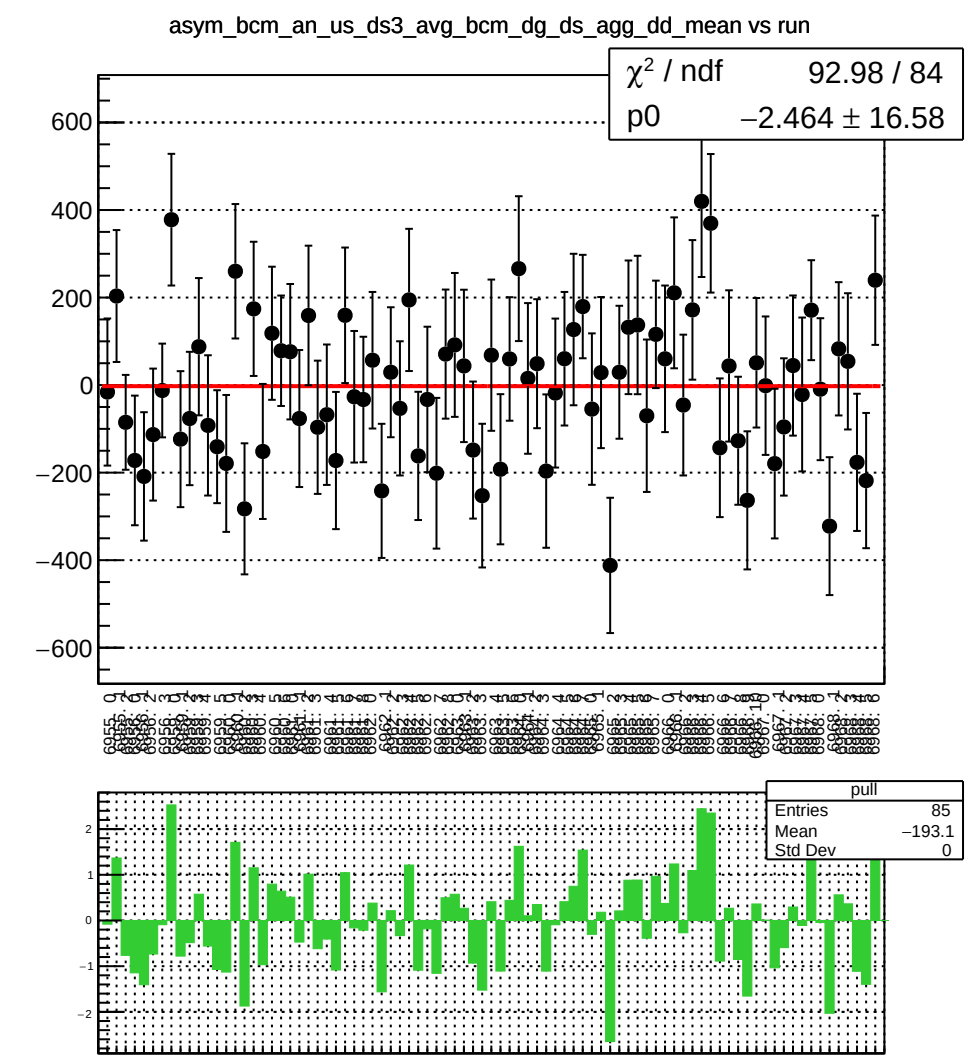

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 92.02 / 84
p0 −3.263 ± 16.67
pull
Entries 85
Mean −207.4
Std Dev 0

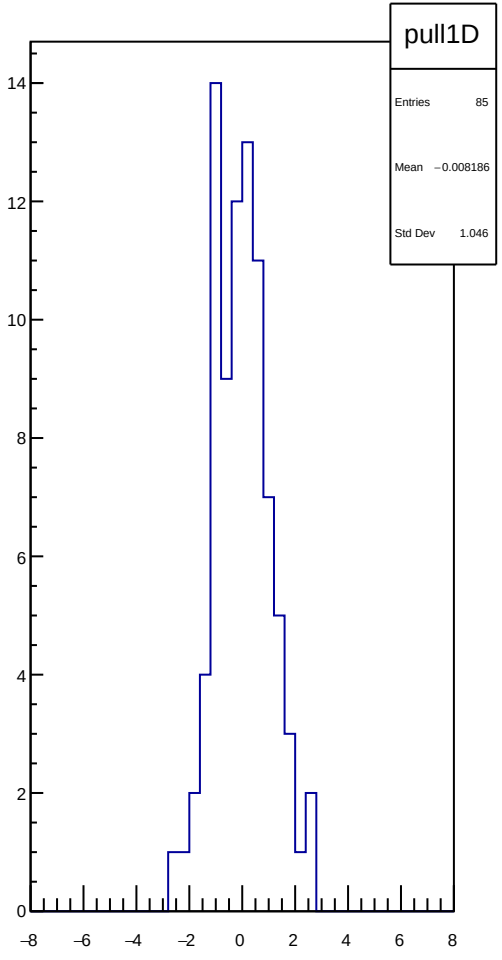

pull1D
Entries 85
Mean −0.007046
Std Dev 1.04

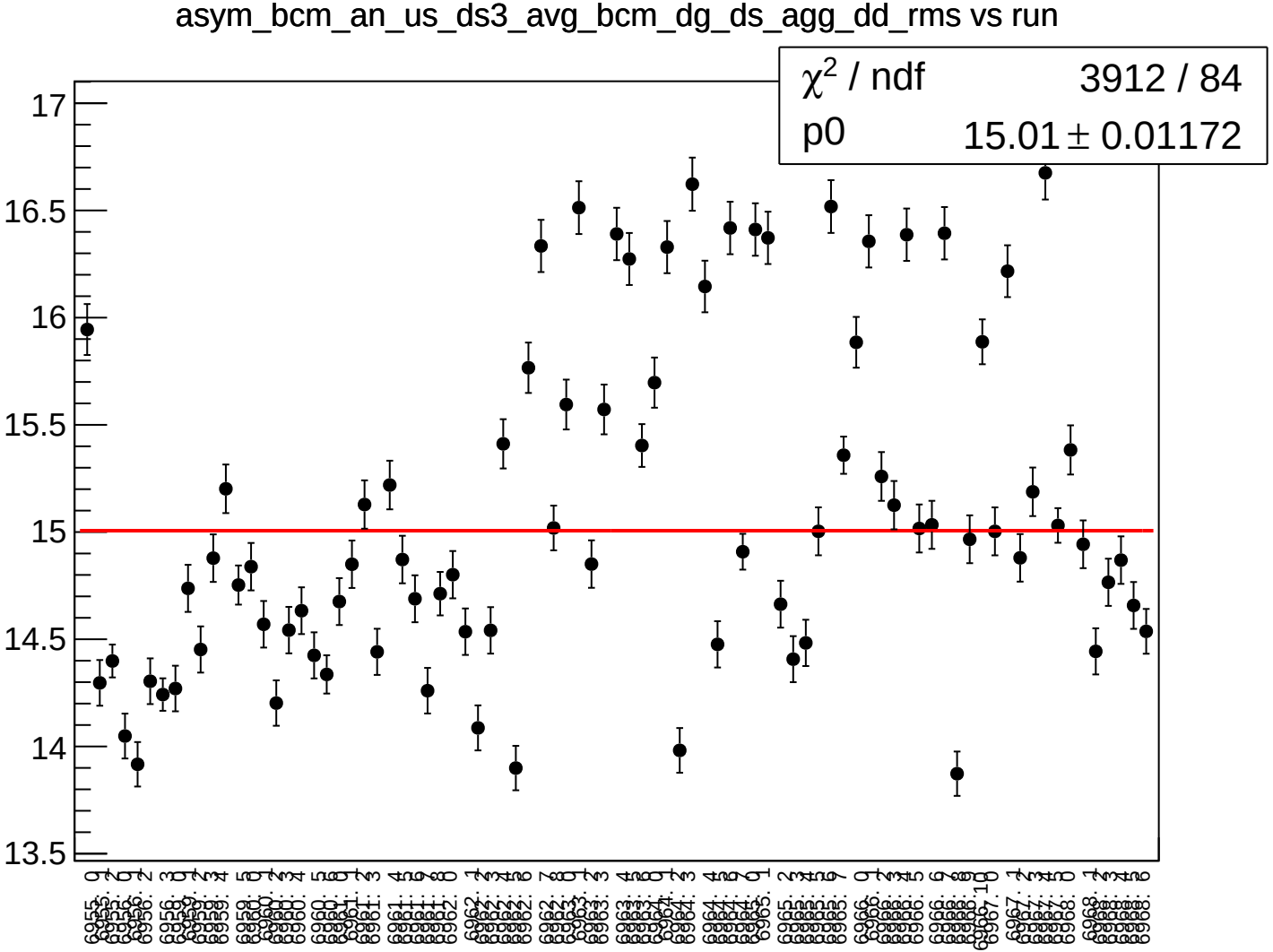

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3522 / 84
p0 15.09 ± 0.01178
17
16.5
16
15.5
15
14.5
14

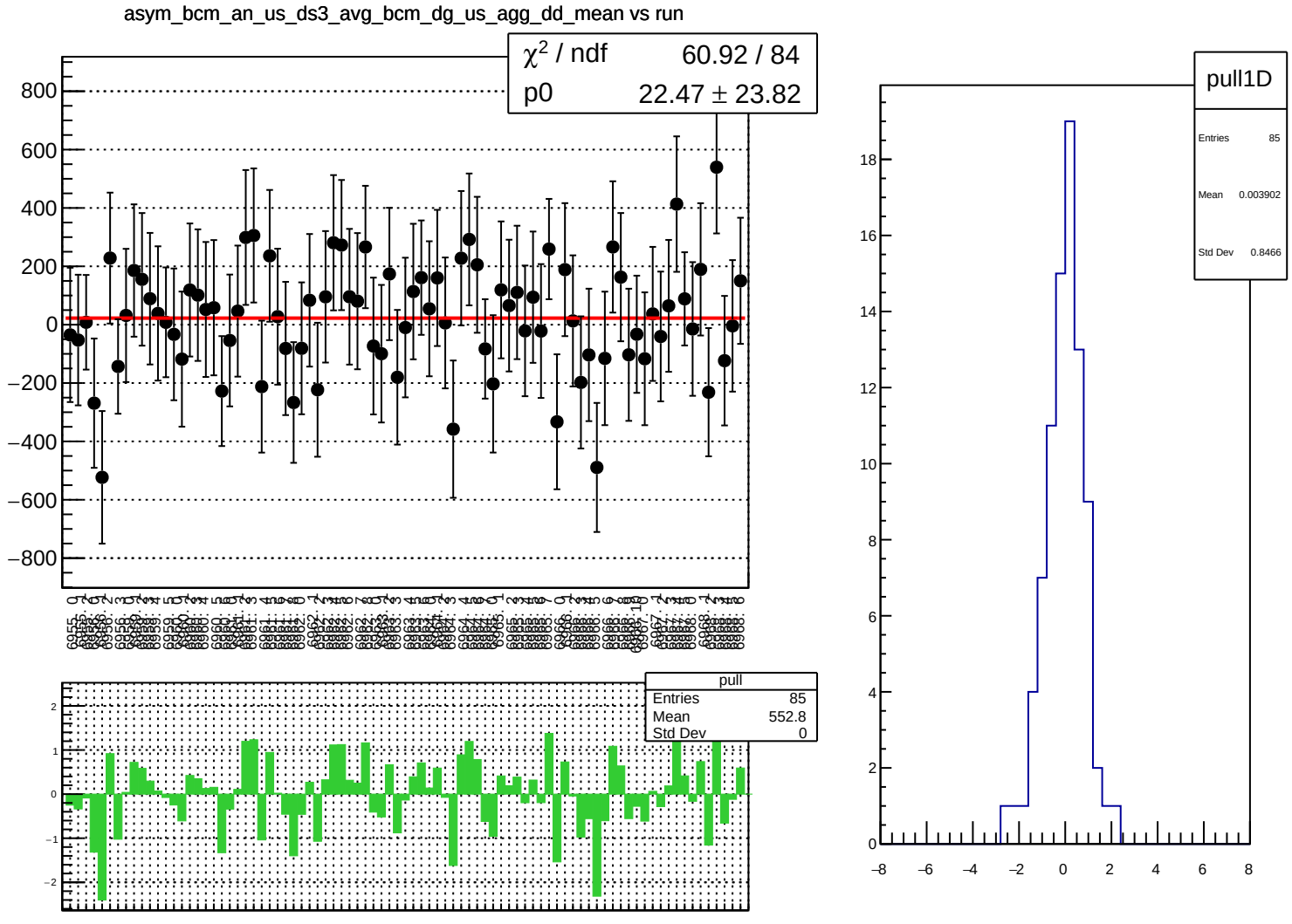

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 60.79 / 84
p0 21.76 ± 23.95
pull
Entries 85
Mean 460.9
Std Dev 0
pull1D
Entries 85
Mean 0.004503
Std Dev 0.8457

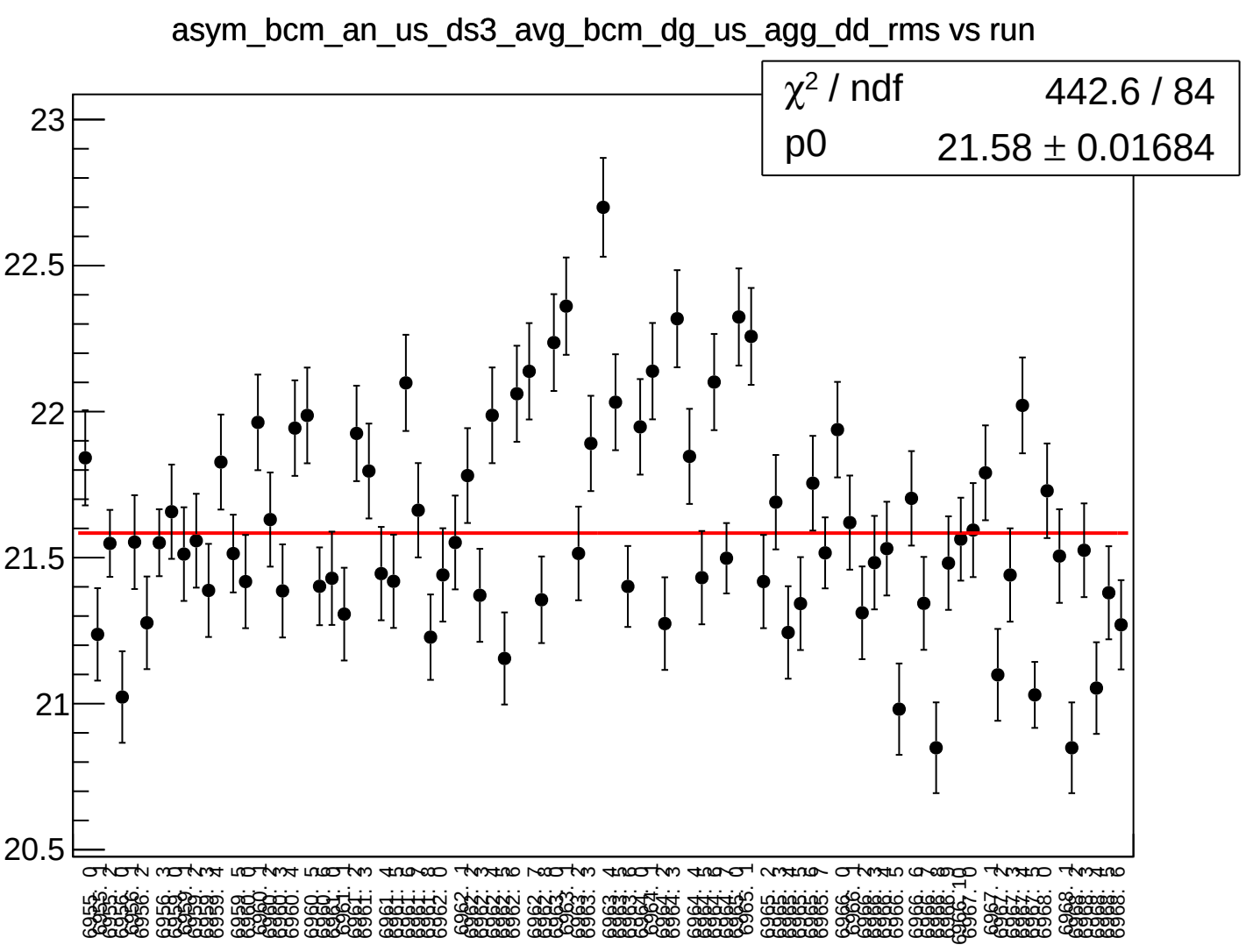

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 469.4 / 84
p0 21.7 ± 0.01694
23
22.5
22
21.5
21

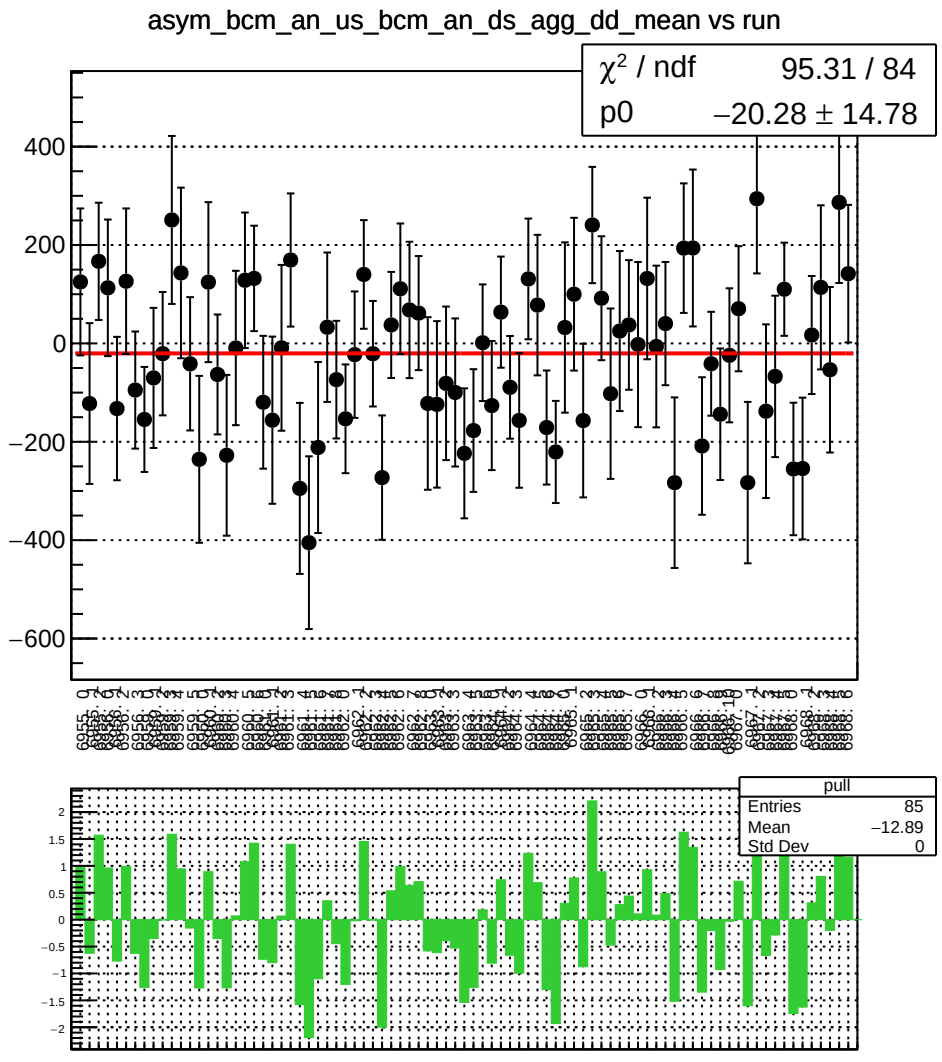

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 92.98 / 84
p0 −2.464 ± 16.58
pull
Entries 85
Mean −193.1
Std Dev 0

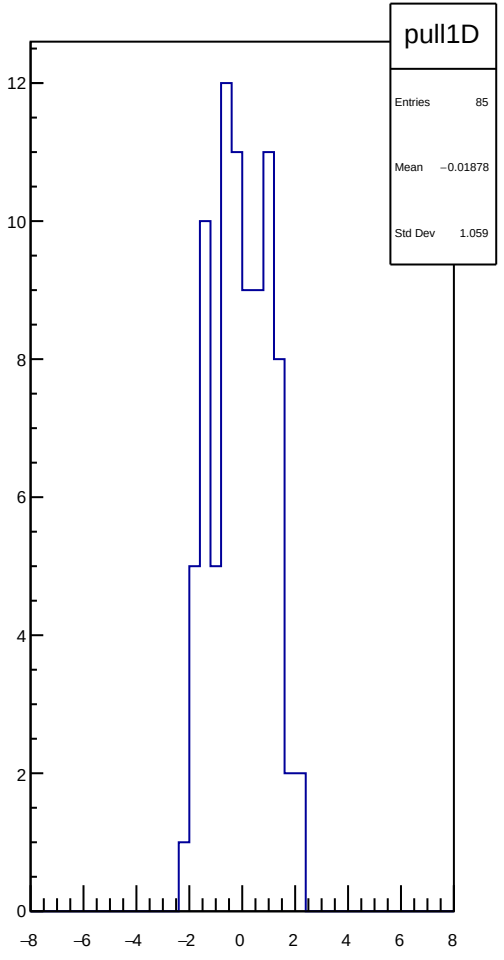

pull1D
Entries 85
Mean −0.008186
Std Dev 1.046

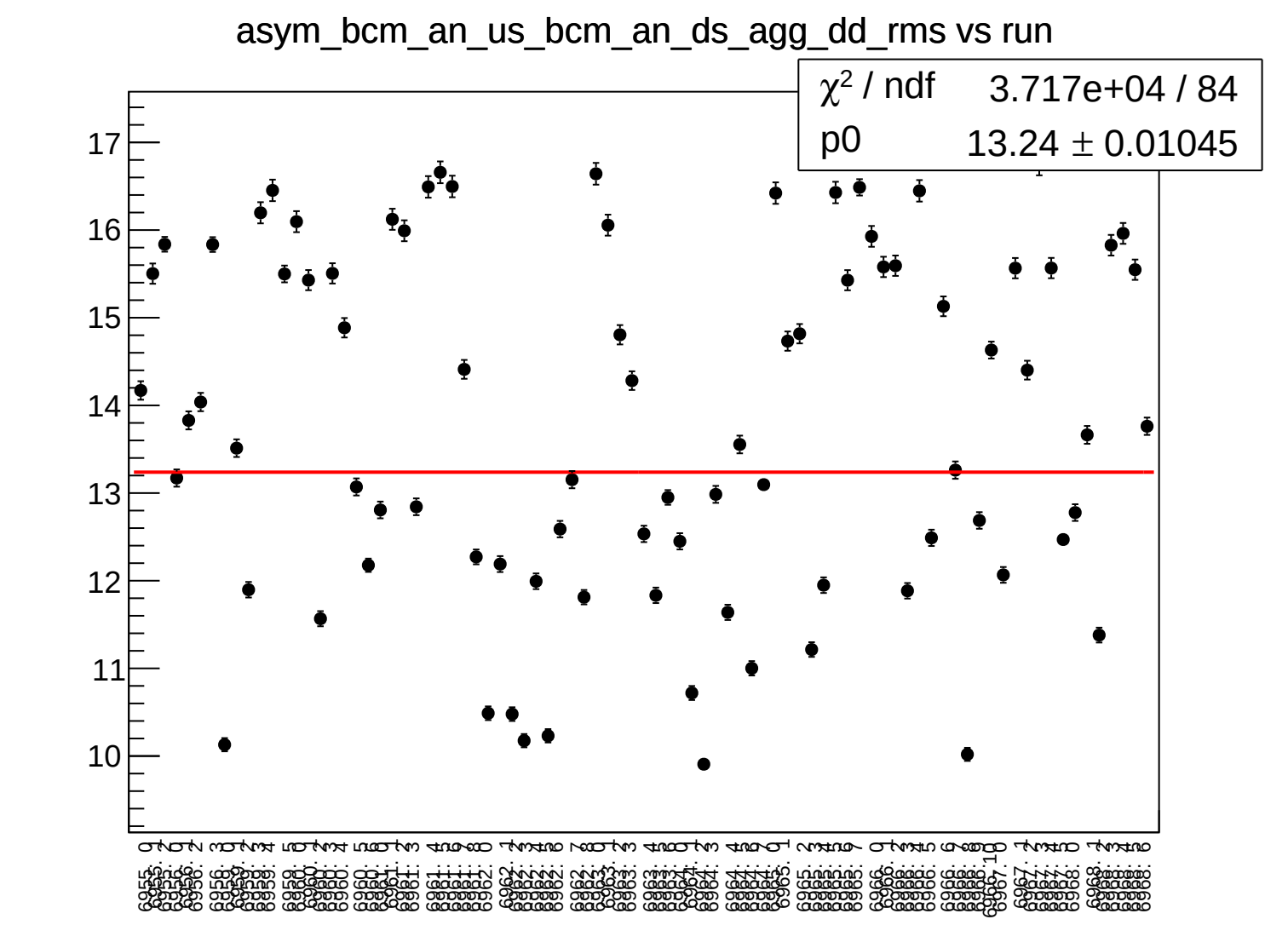

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3912 / 84
p0 15.01 ± 0.01172
17
16.5
16
15.5
15
14.5
14
13.5

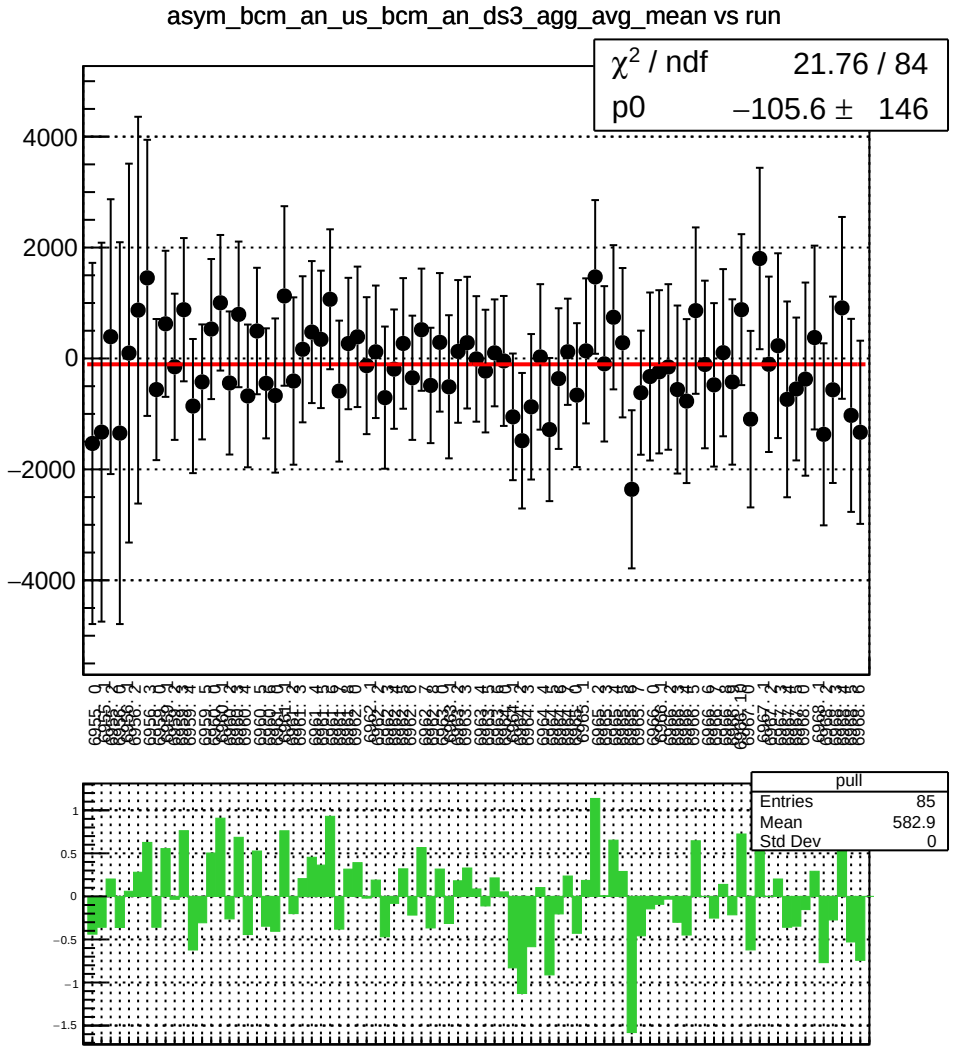

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 60.92 / 84
p0 22.47 ± 23.82
pull
Entries 85
Mean 552.8
Std Dev 0
pull1D
Entries 85
Mean 0.003902
Std Dev 0.8466

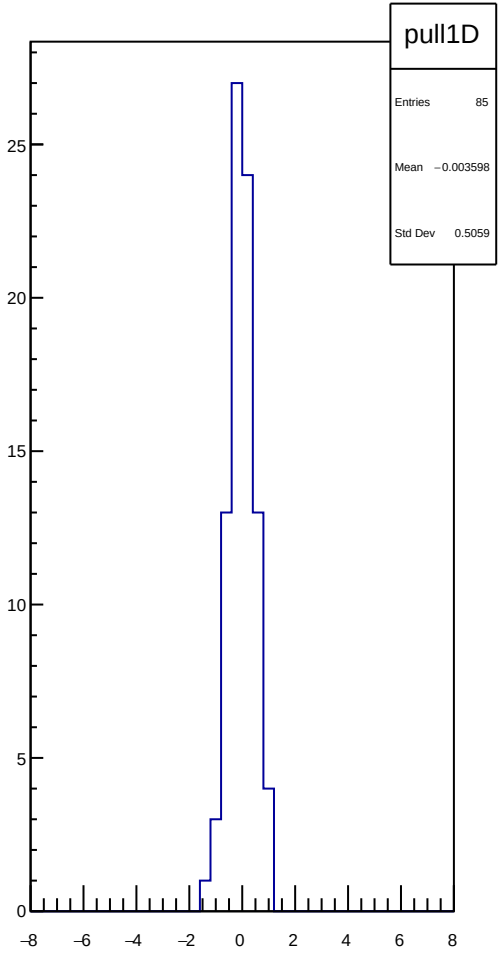

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 442.6 / 84
p0 21.58 ± 0.01684
23
22.5
22
21.5
21
20.5

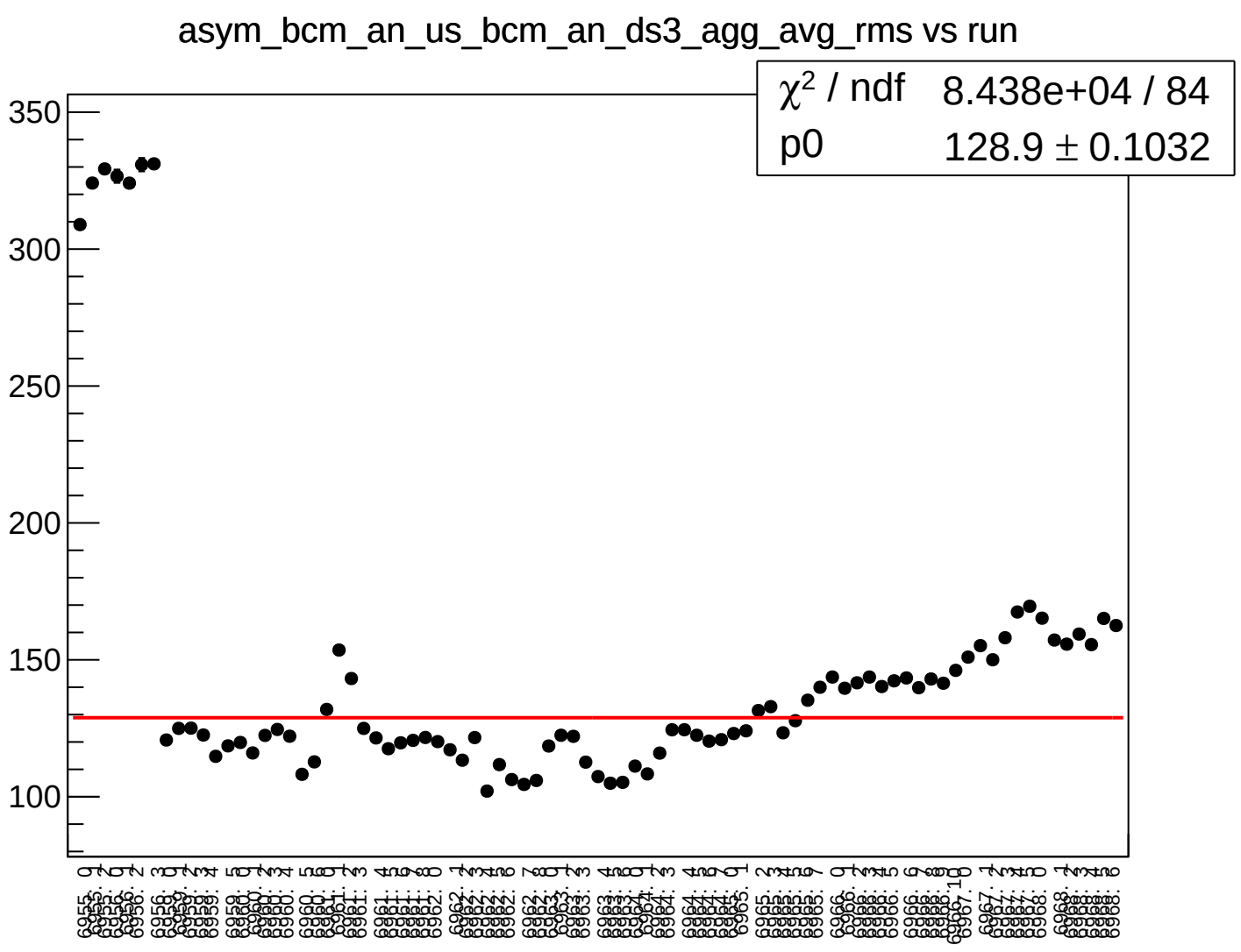

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 95.31 / 84
p0 −20.28 ± 14.78
pull
Entries 85
Mean −12.89
Std Dev 0

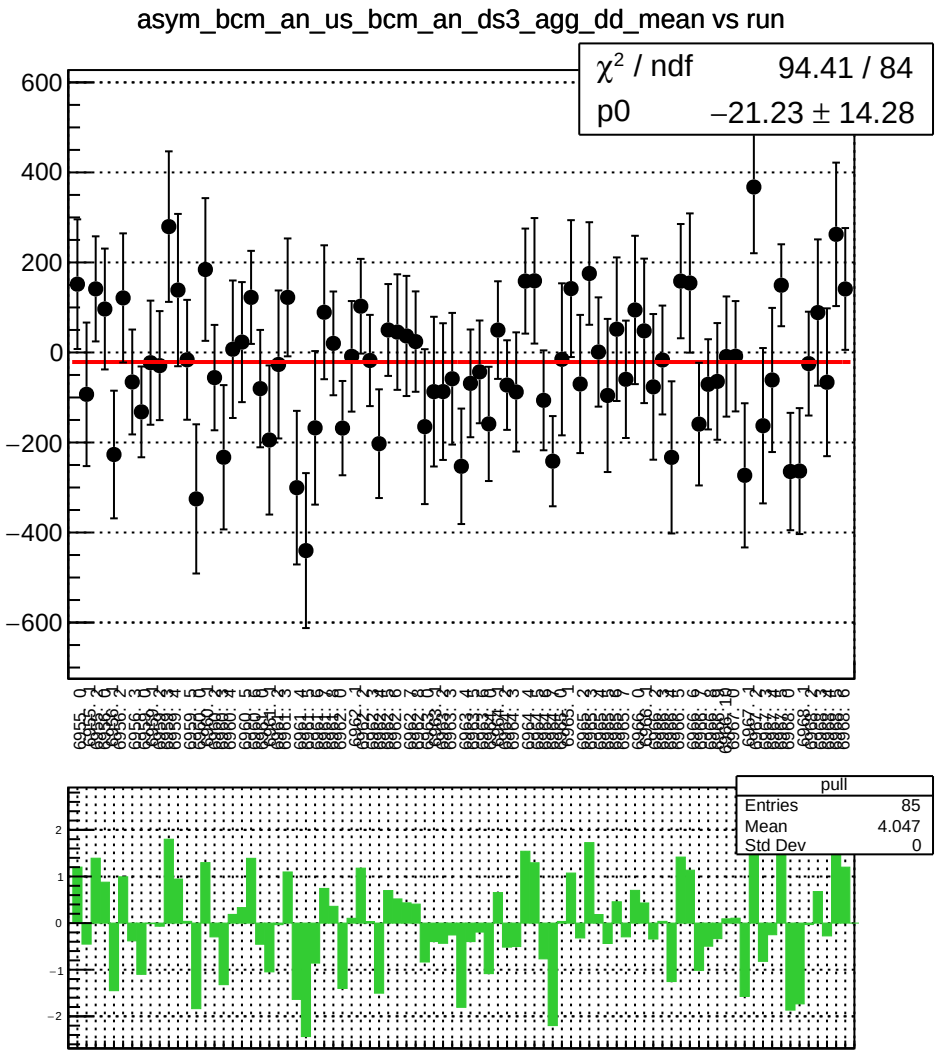

pull1D
Entries 85
Mean −0.01878
Std Dev 1.059

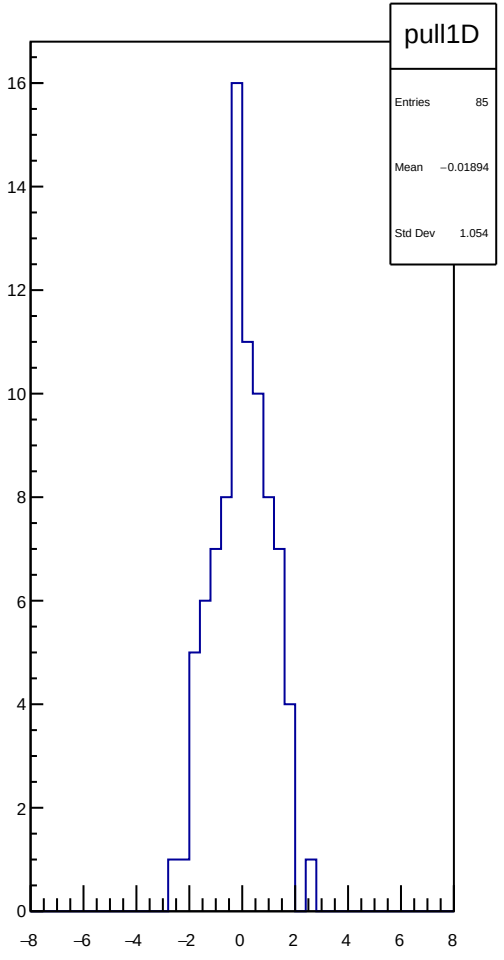

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.717e+04 / 84
p0 13.24 ± 0.01045
17
16
15
14
13
12
11
10

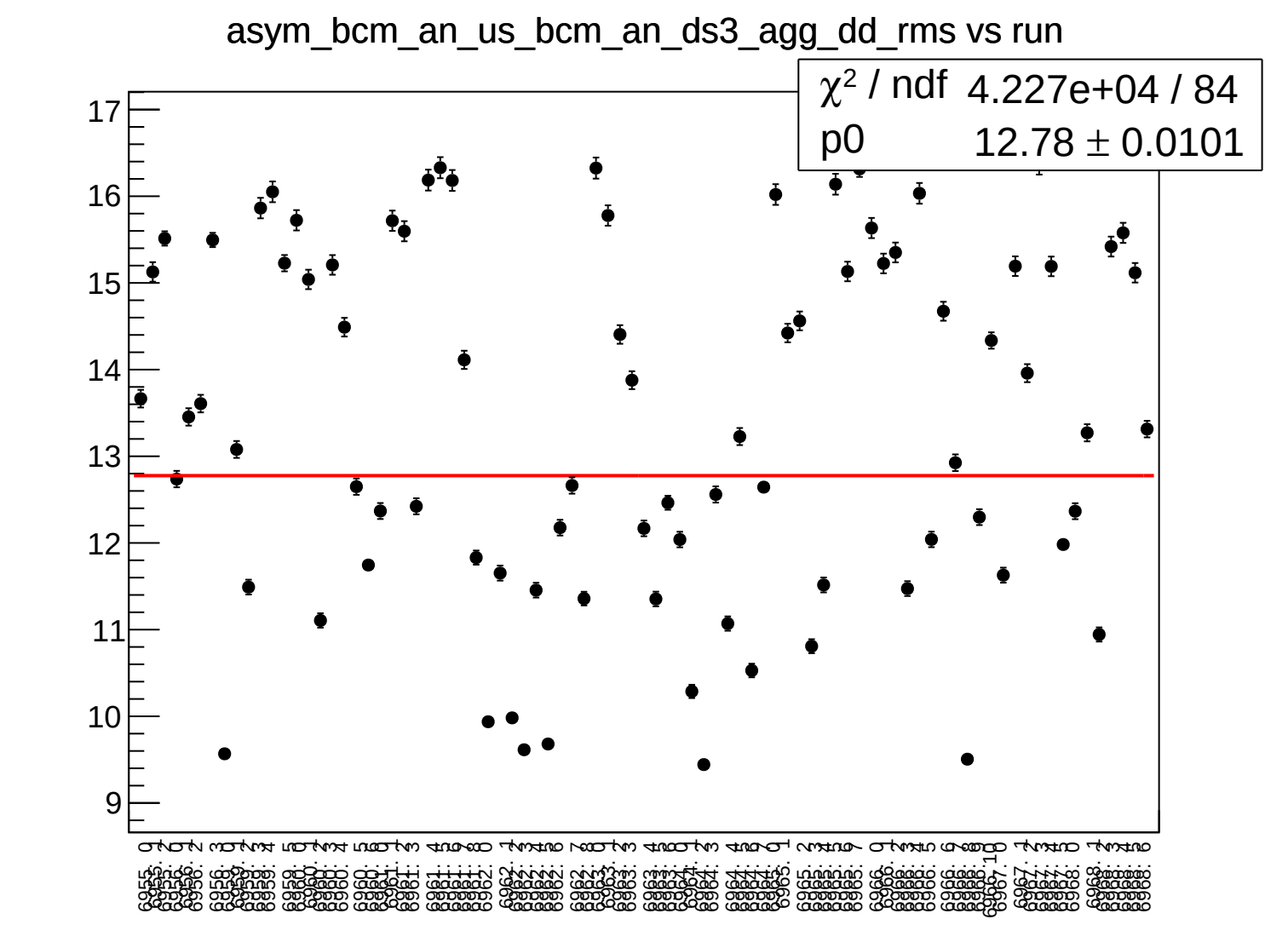

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 21.76 / 84
p0 −105.6 ± 146
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 582.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

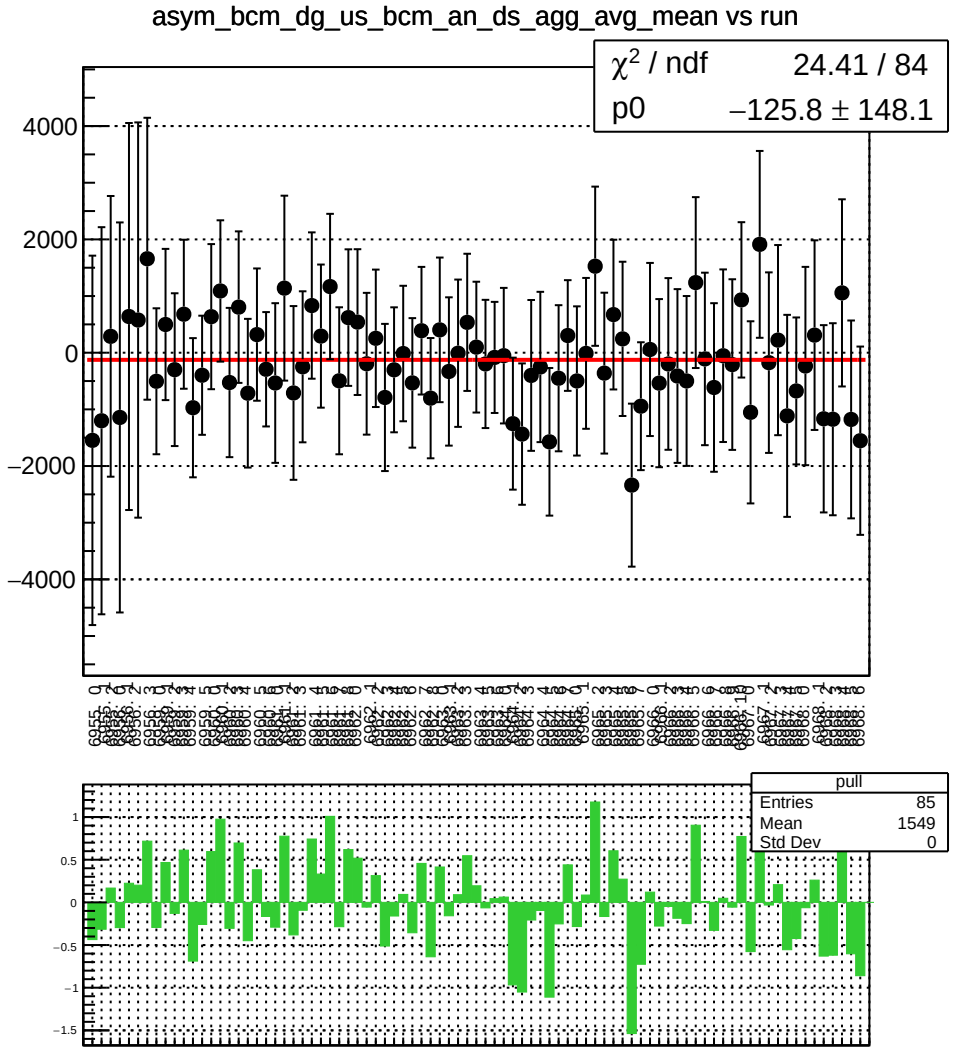

pull1D
Entries 85
Mean −0.003598
Std Dev 0.5059
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

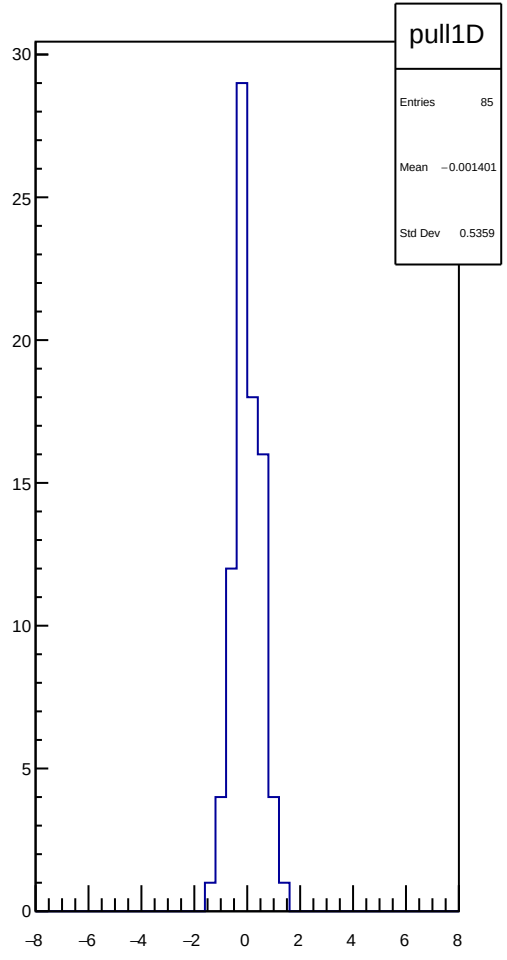

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 8.438e+04 / 84
p0 128.9 ± 0.1032
350
300
250
200
150
100

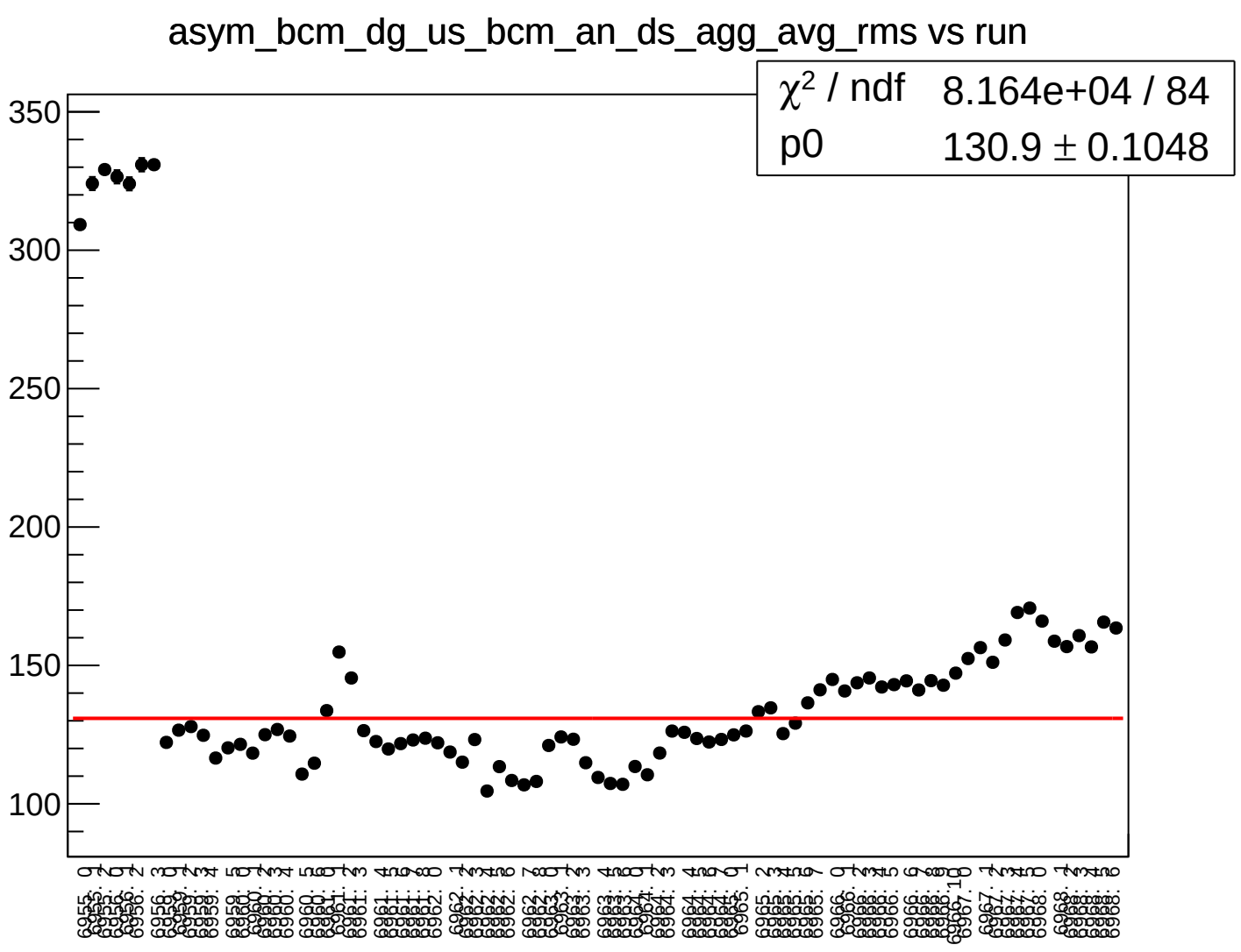

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 94.41 / 84
p0 −21.23 ± 14.28
pull
Entries 85
Mean 4.047
Std Dev 0

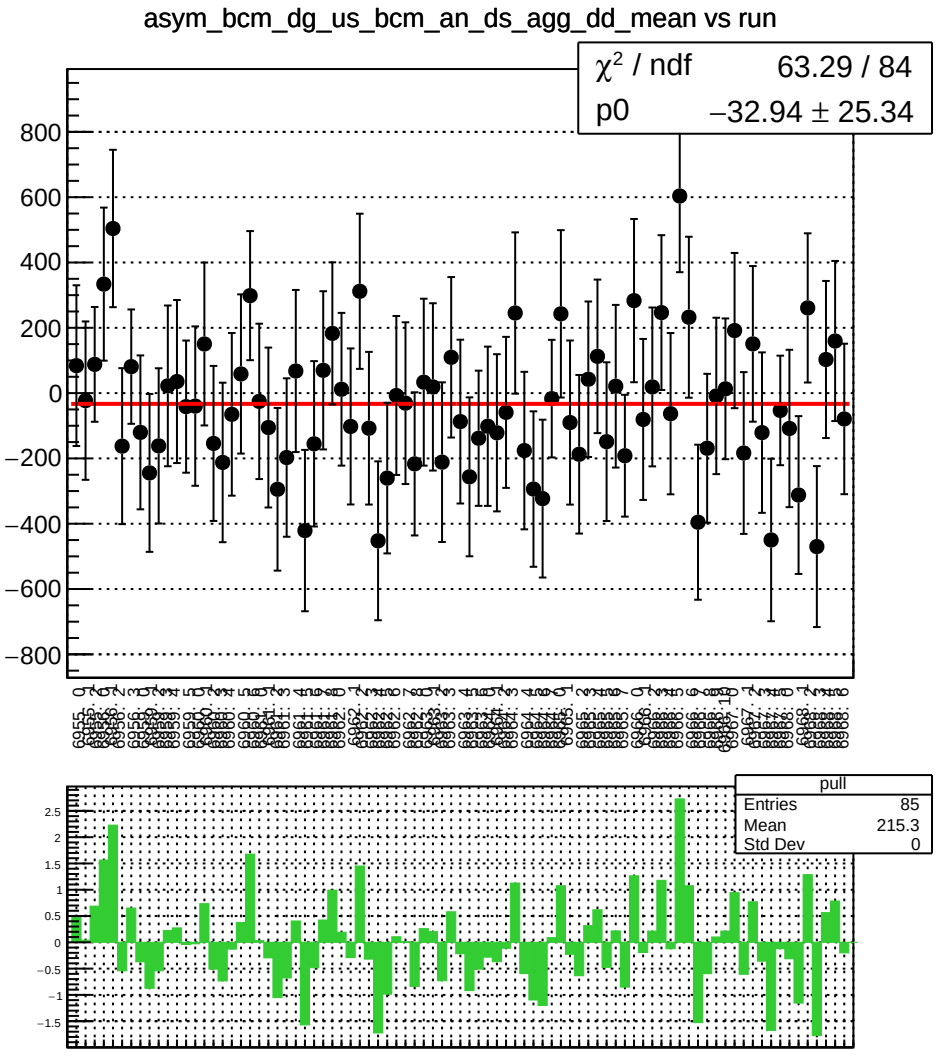

pull1D
Entries 85
Mean −0.01894
Std Dev 1.054

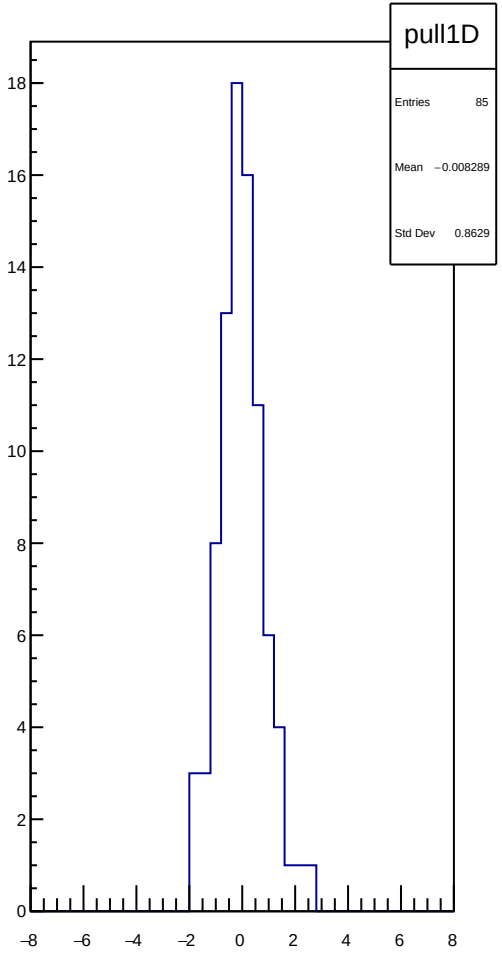

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 4.227e+04 / 84
p0 12.78 ± 0.0101
17
16
15
14
13
12
11
10
9

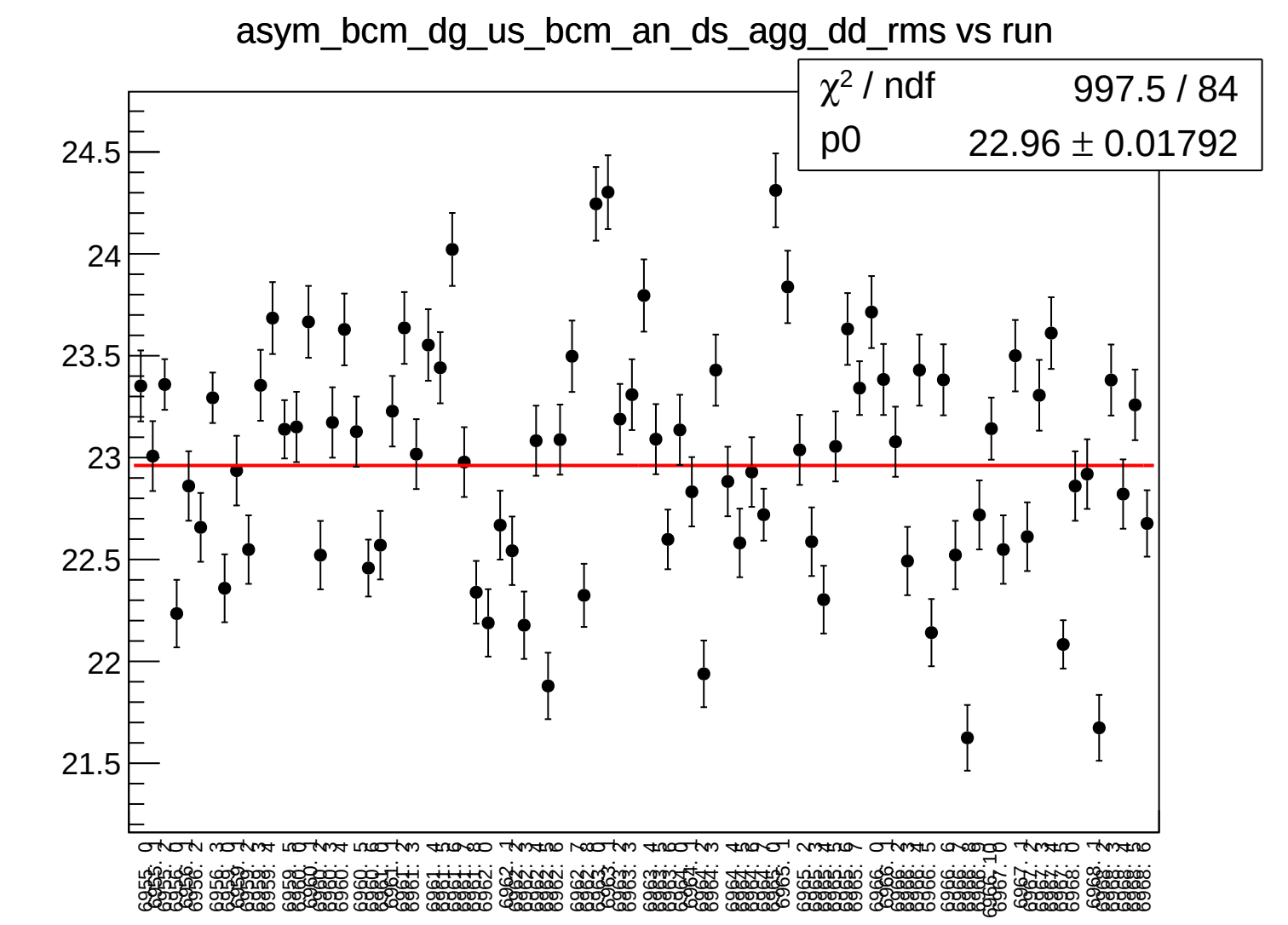

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.41 / 84
p0 −125.8 ± 148.1
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 1549
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

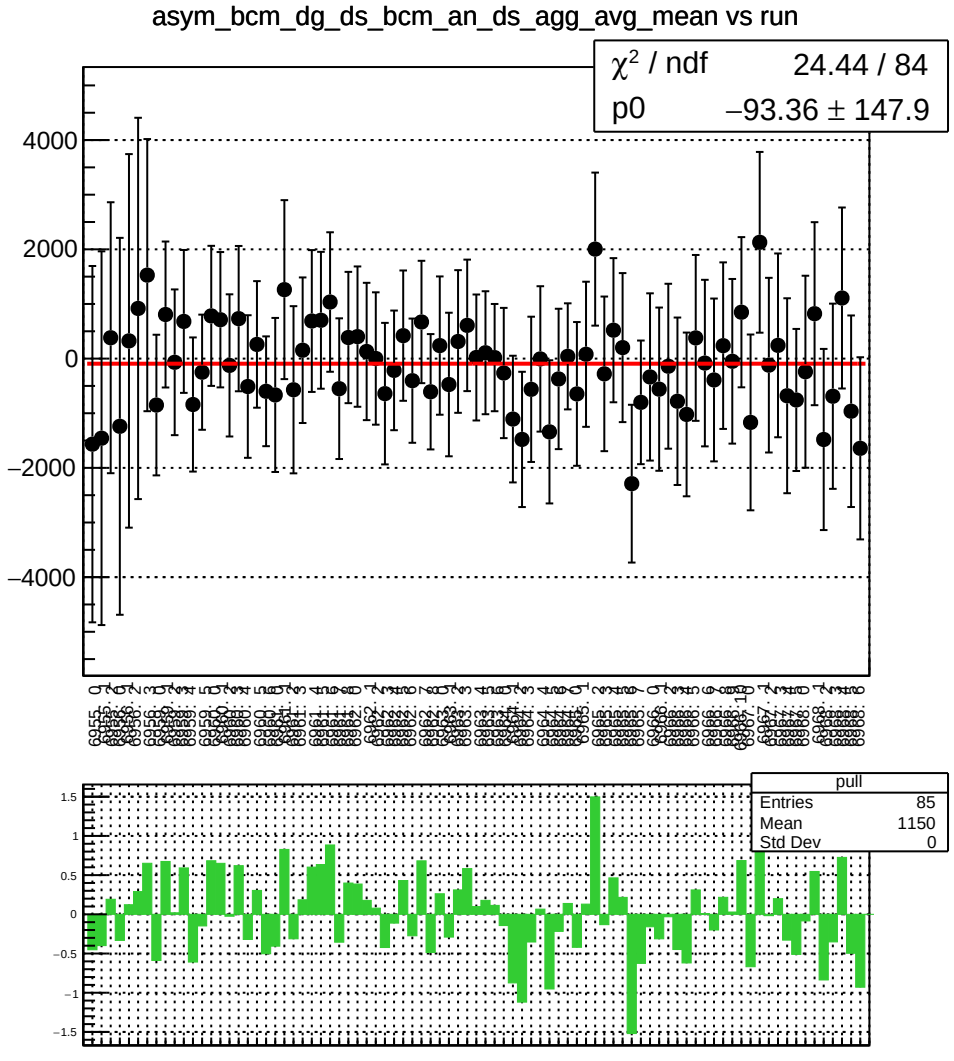

pull1D
Entries 85
Mean −0.001401
Std Dev 0.5359
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

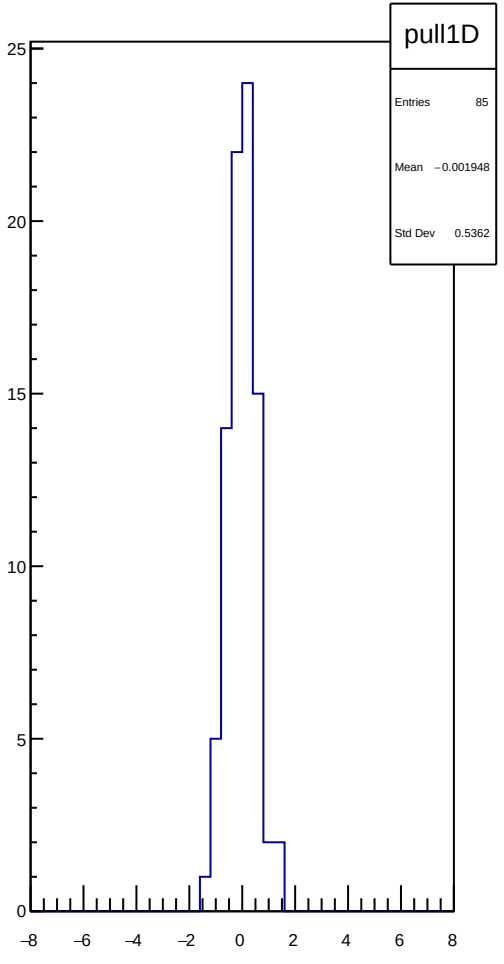

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8.164e+04 / 84
p0 130.9 ± 0.1048
350
300
250
200
150
100

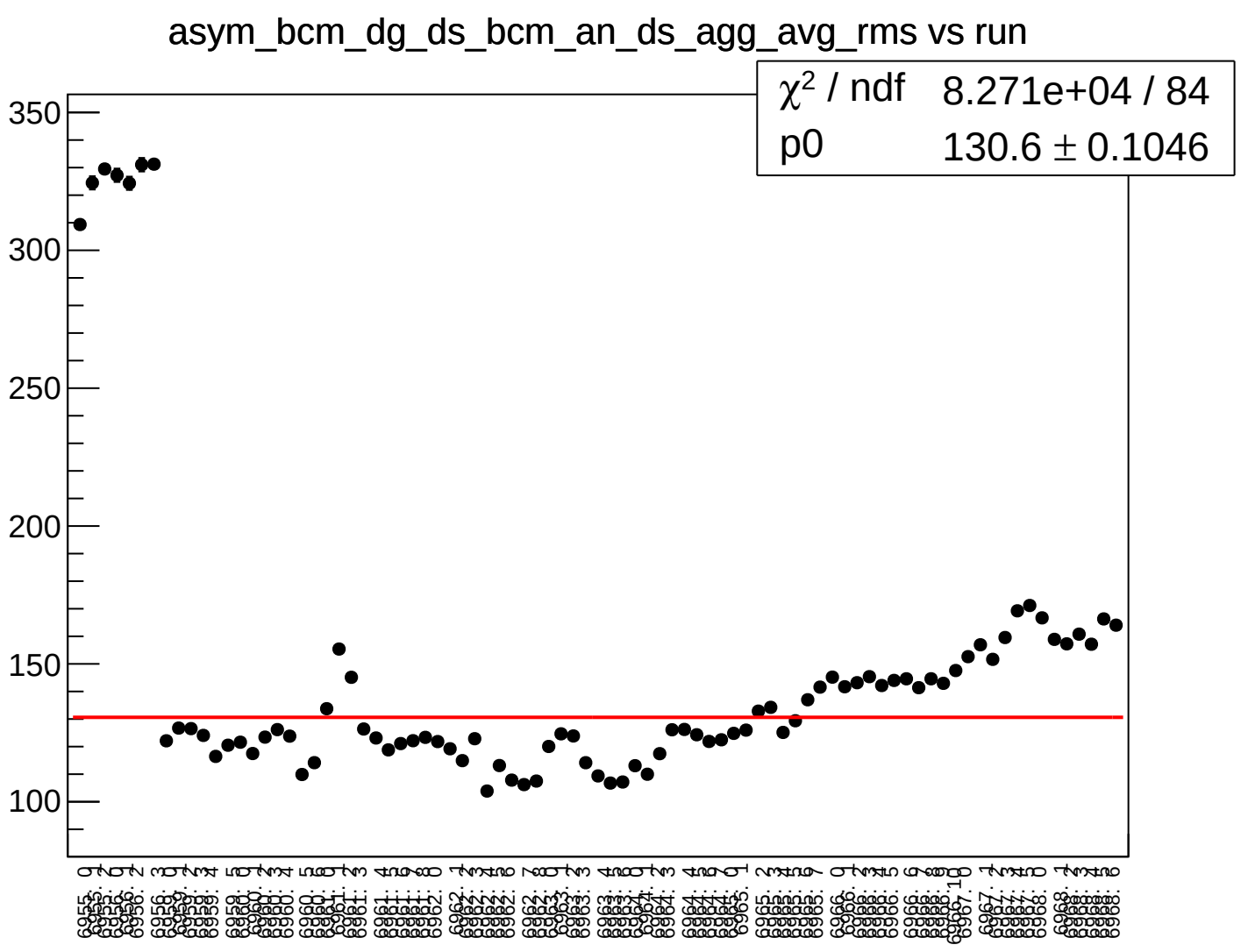

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 63.29 / 84
p0 −32.94 ± 25.34
pull
Entries 85
Mean 215.3
Std Dev 0

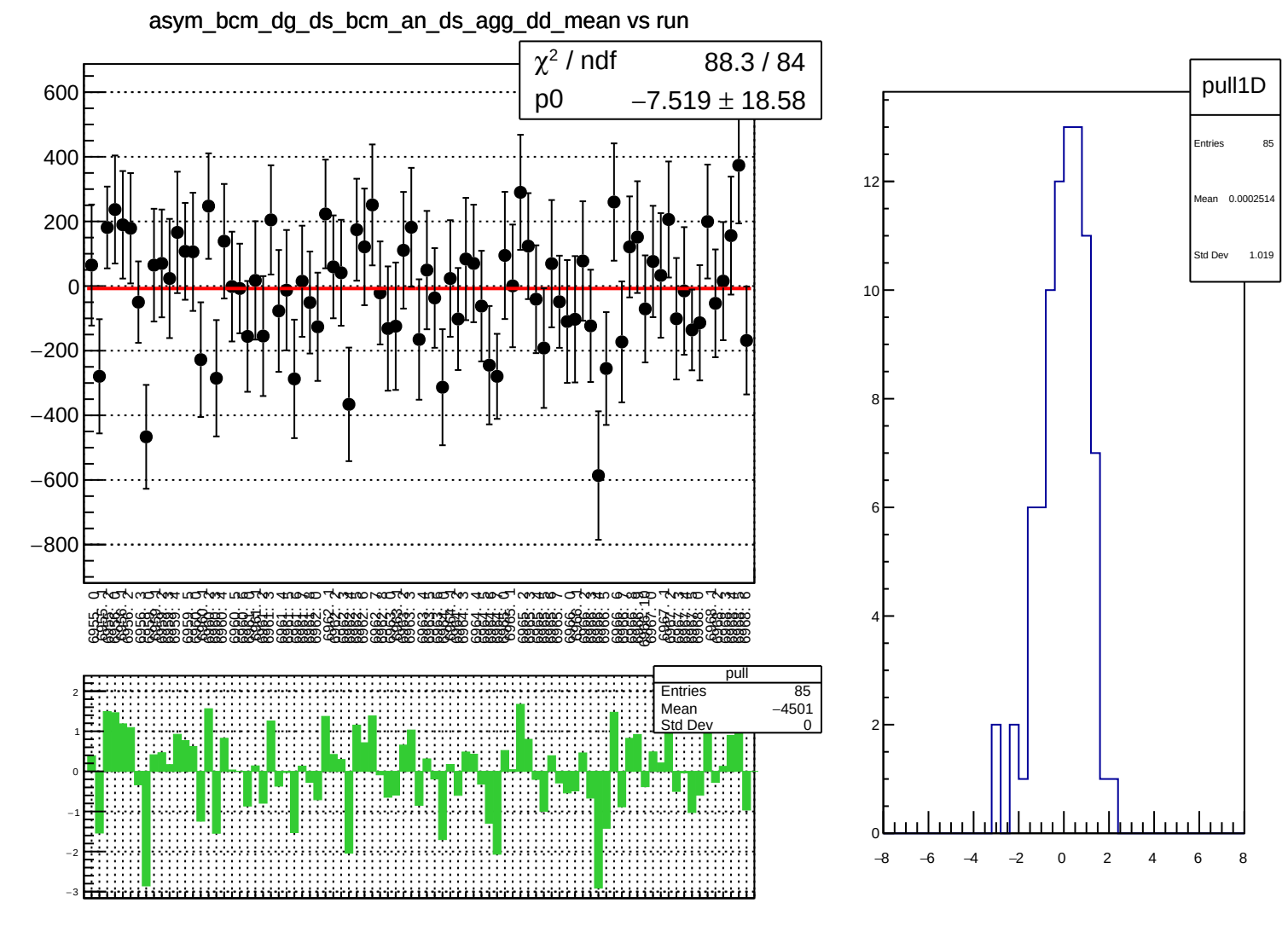

pull1D
Entries 85
Mean −0.008289
Std Dev 0.8629

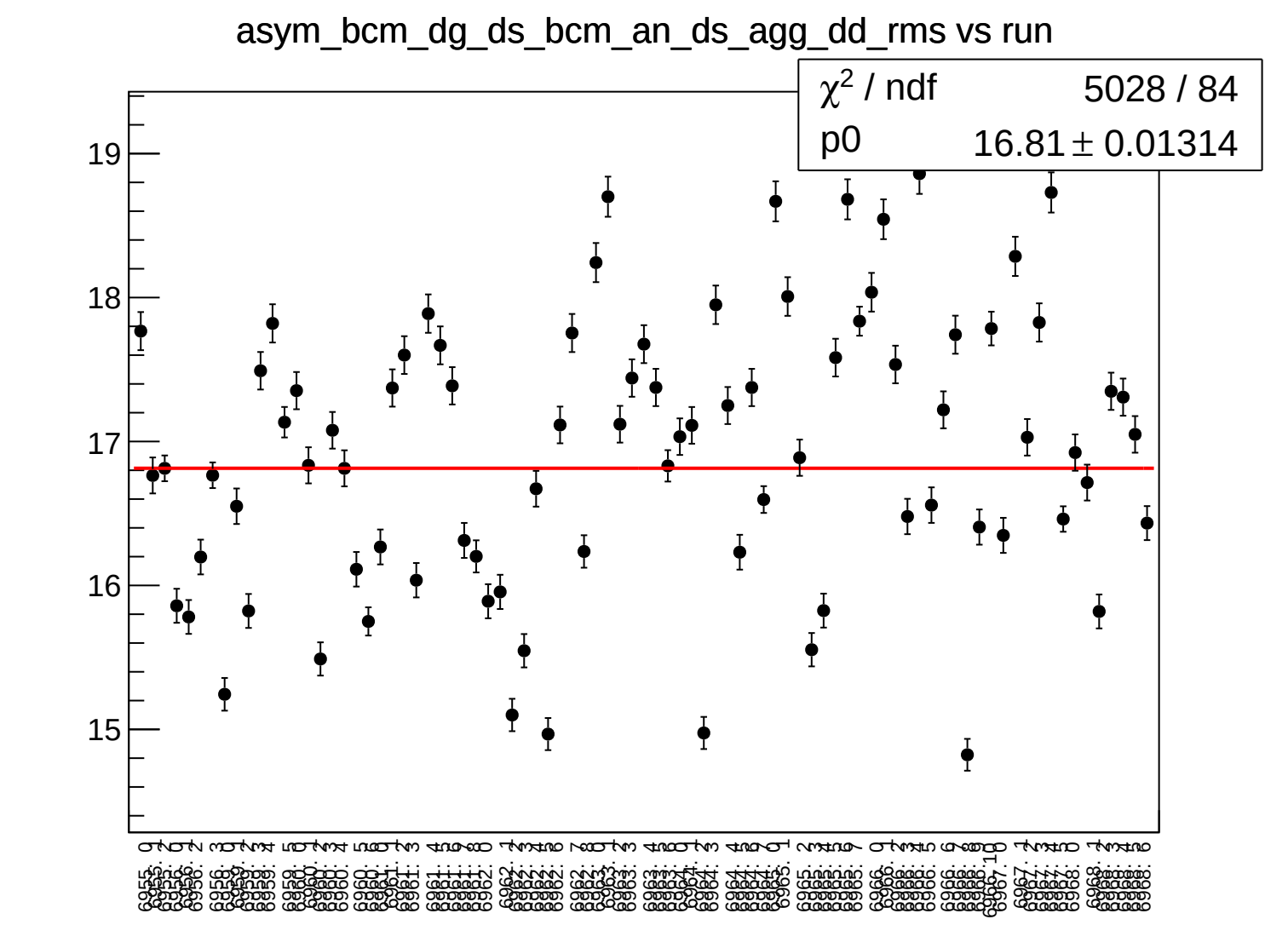

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 997.5 / 84
p0 22.96 ± 0.01792
24.5
24
23.5
23
22.5
22
21.5

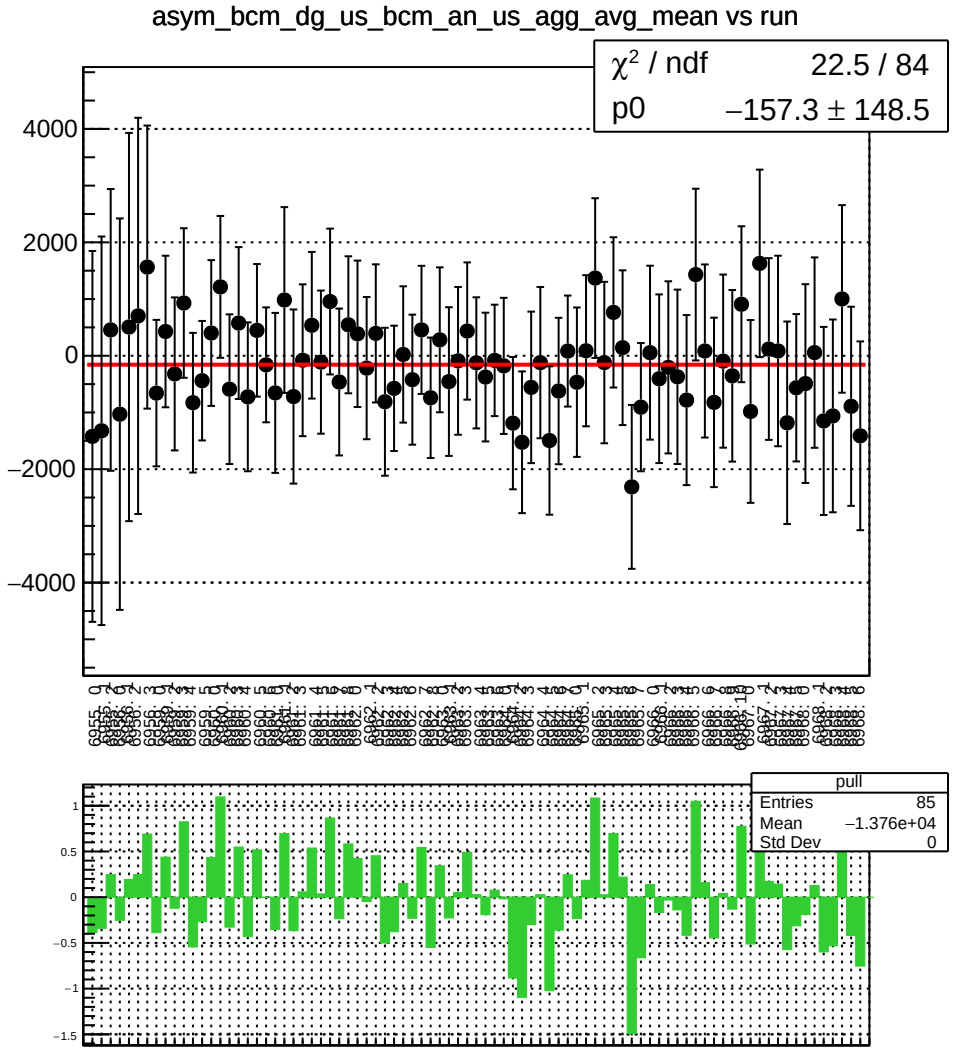

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.44 / 84
p0 −93.36 ± 147.9
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 1150
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

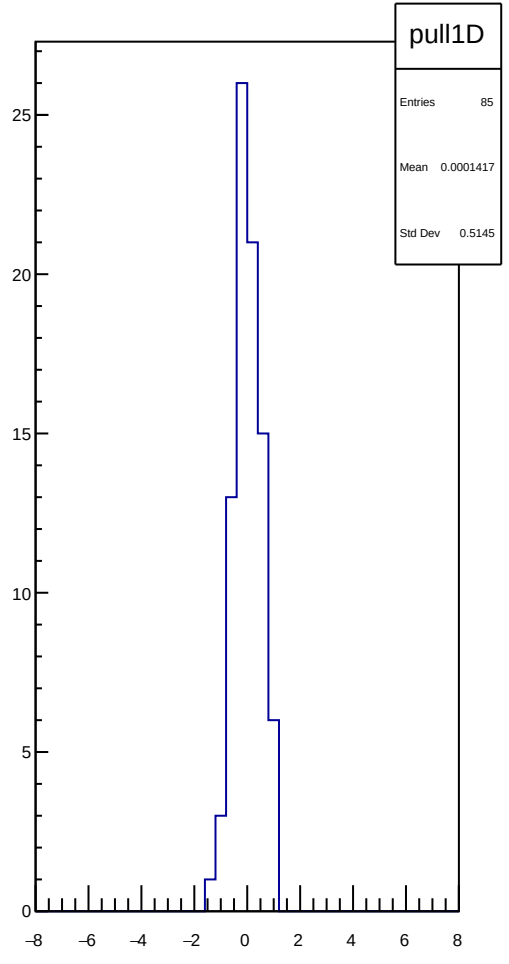

pull1D
Entries 85
Mean −0.001948
Std Dev 0.5362
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

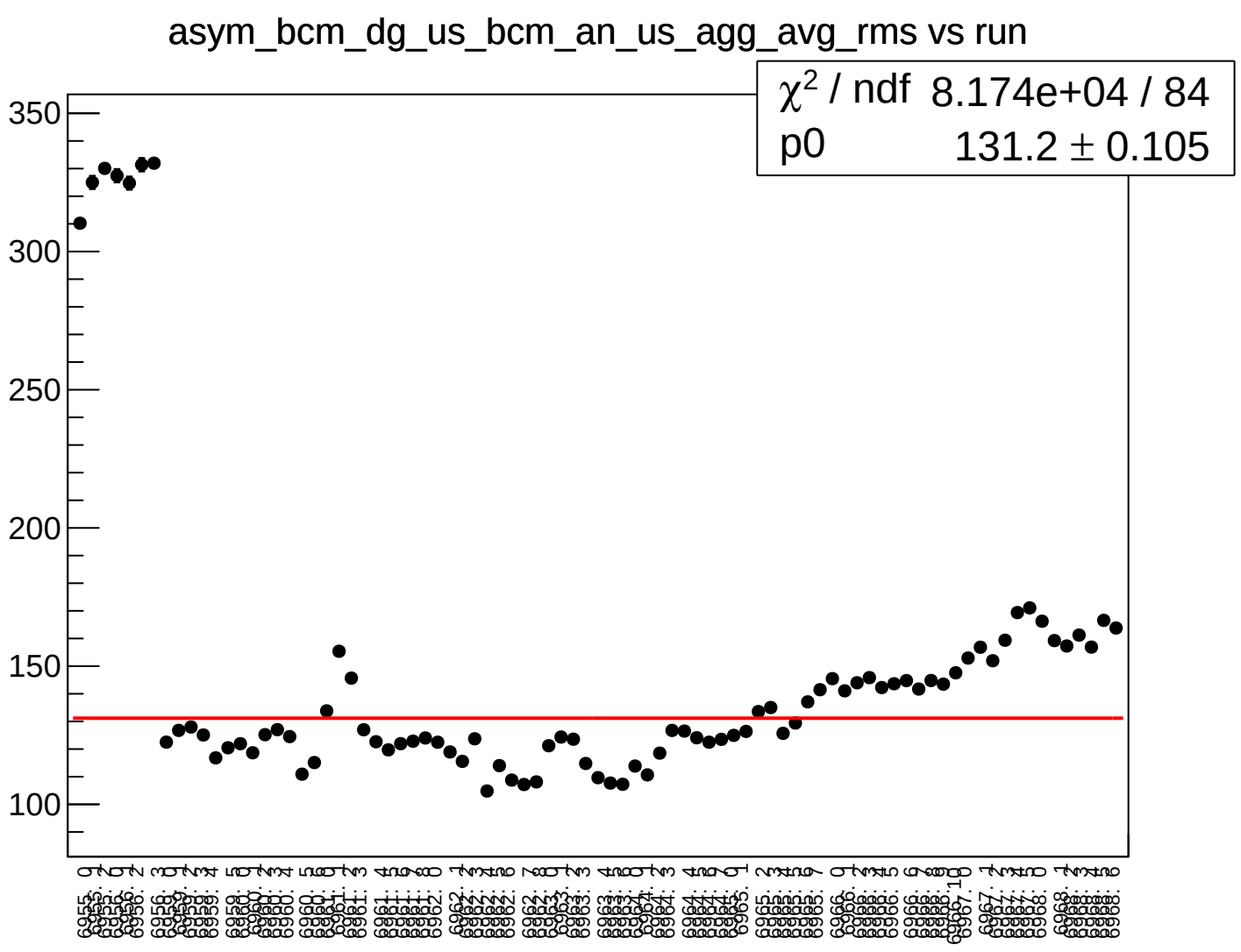

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8.271e+04 / 84
p0 130.6 ± 0.1046
350
300
250
200
150
100

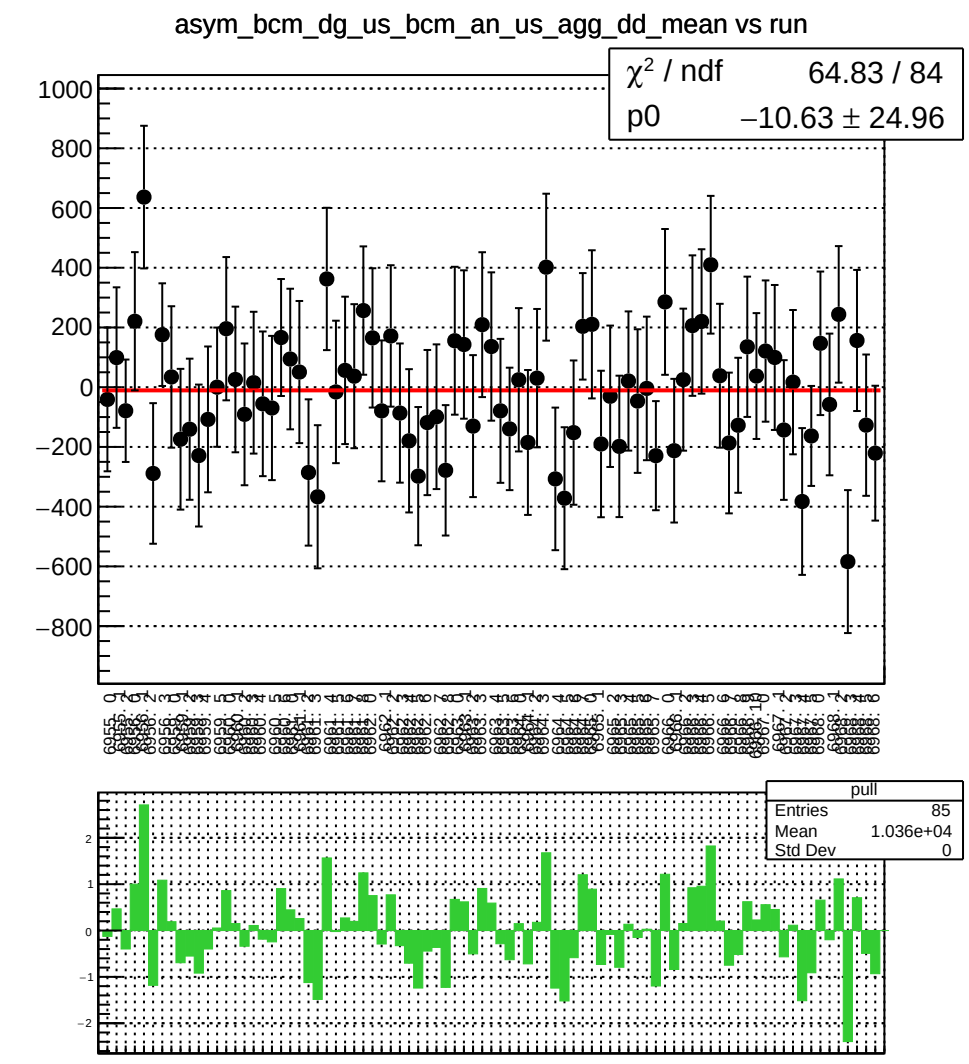

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 88.3 / 84
p0 −7.519 ± 18.58
pull
Entries 85
Mean −4501
Std Dev 0
pull1D
Entries 85
Mean 0.0002514
Std Dev 1.019

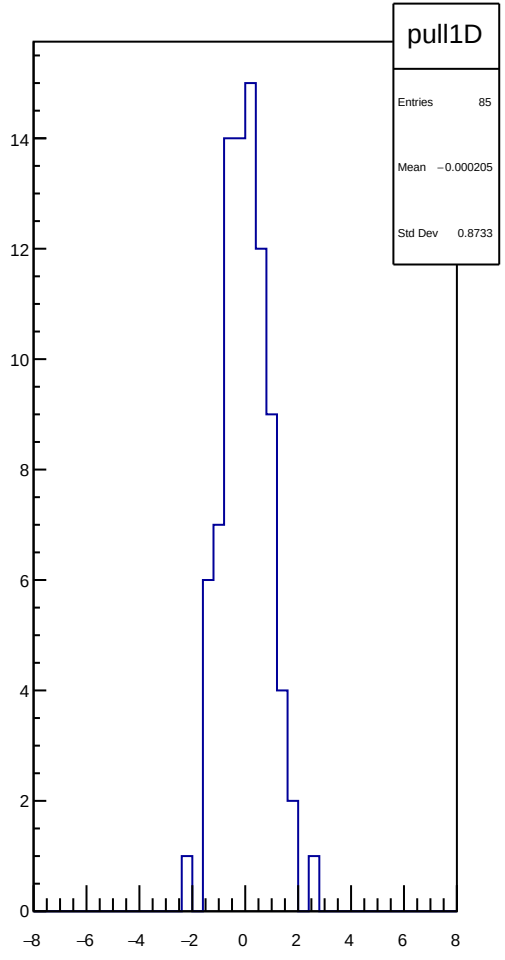

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5028 / 84
p0 16.81 ± 0.01314
19
18
17
16
15

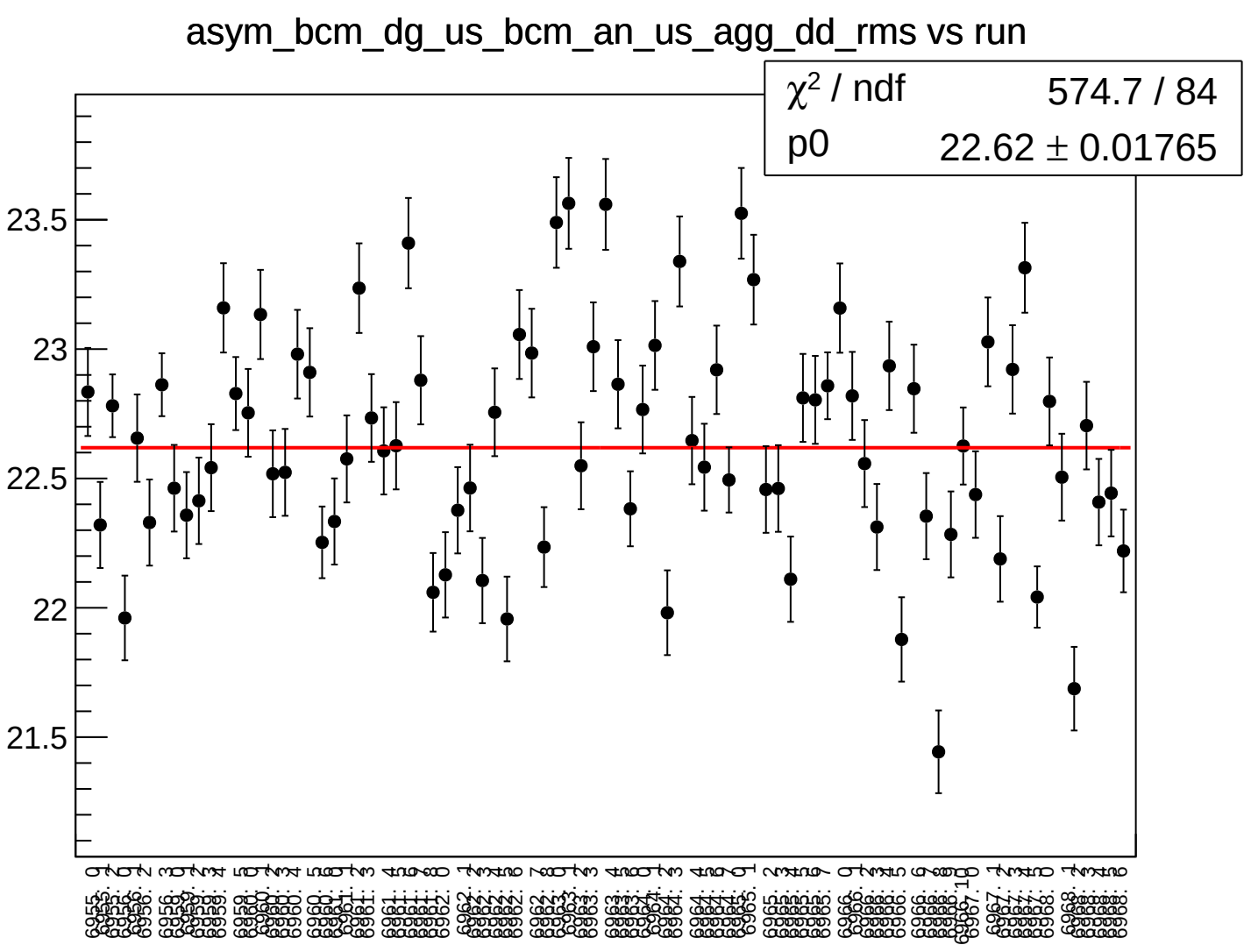

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.5 / 84
p0 −157.3 ± 148.5
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −1.376e+04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

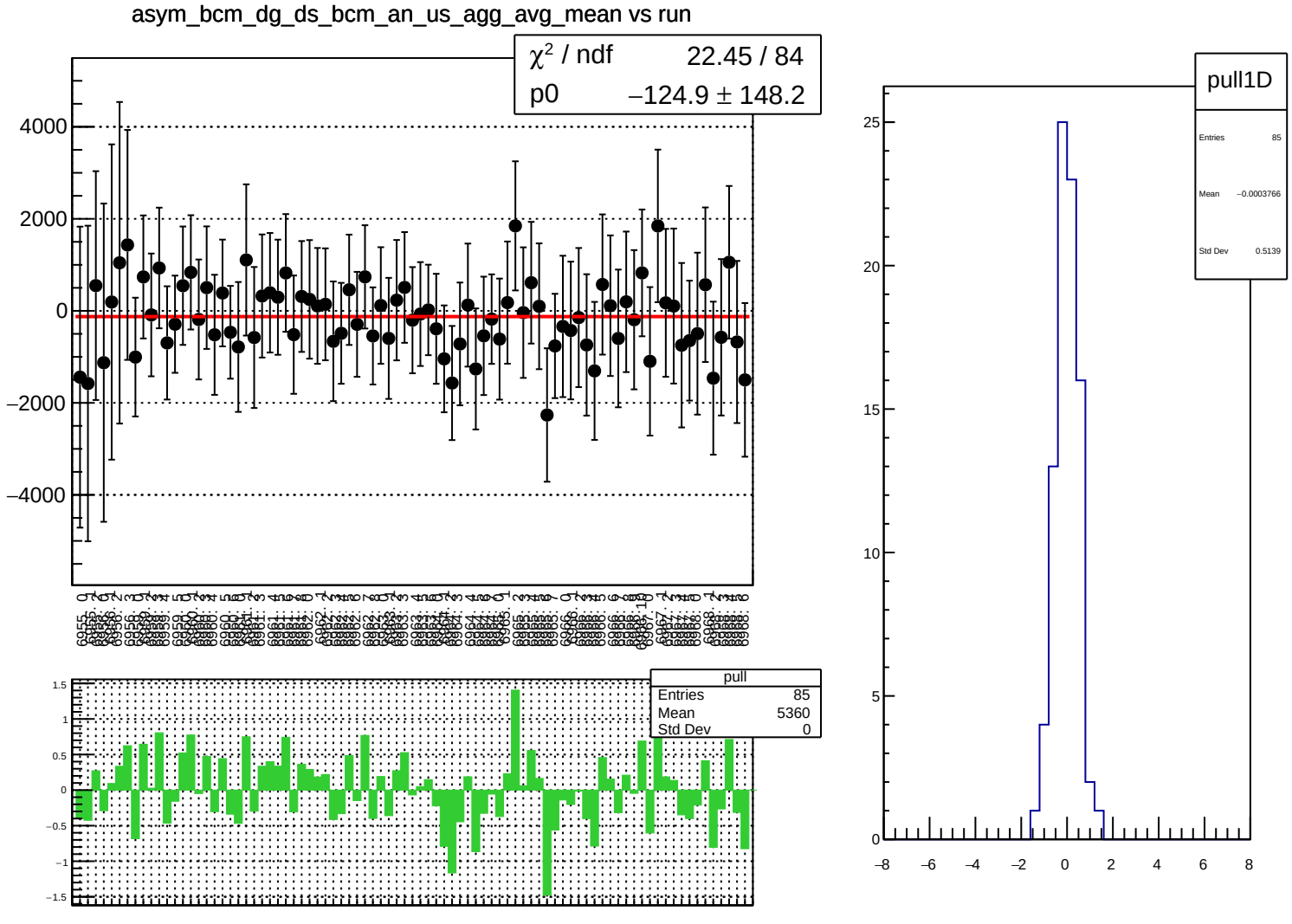

pull1D
Entries 85
Mean 0.0001417
Std Dev 0.5145
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

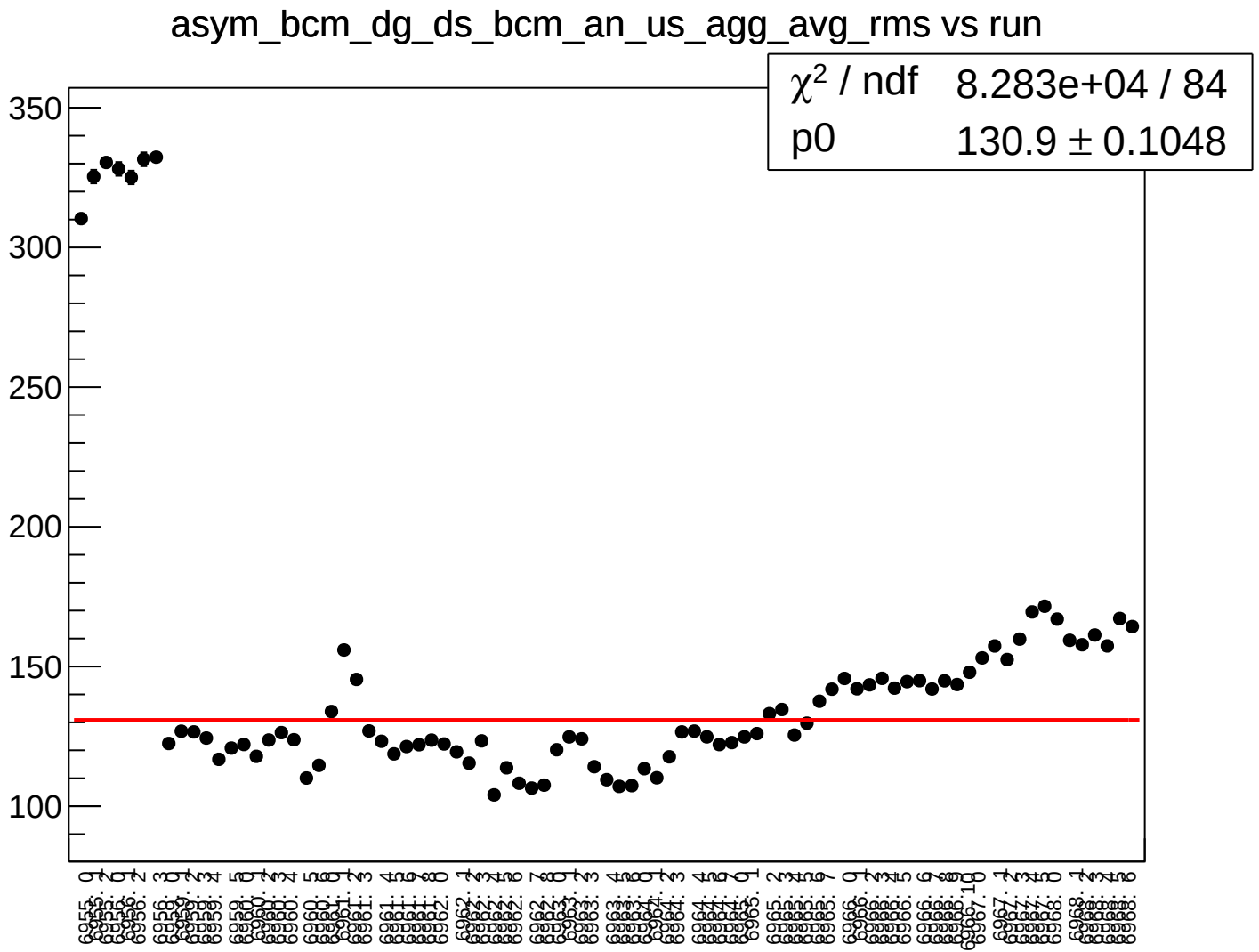

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8.174e+04 / 84
p0 131.2 ± 0.105
350
300
250
200
150
100

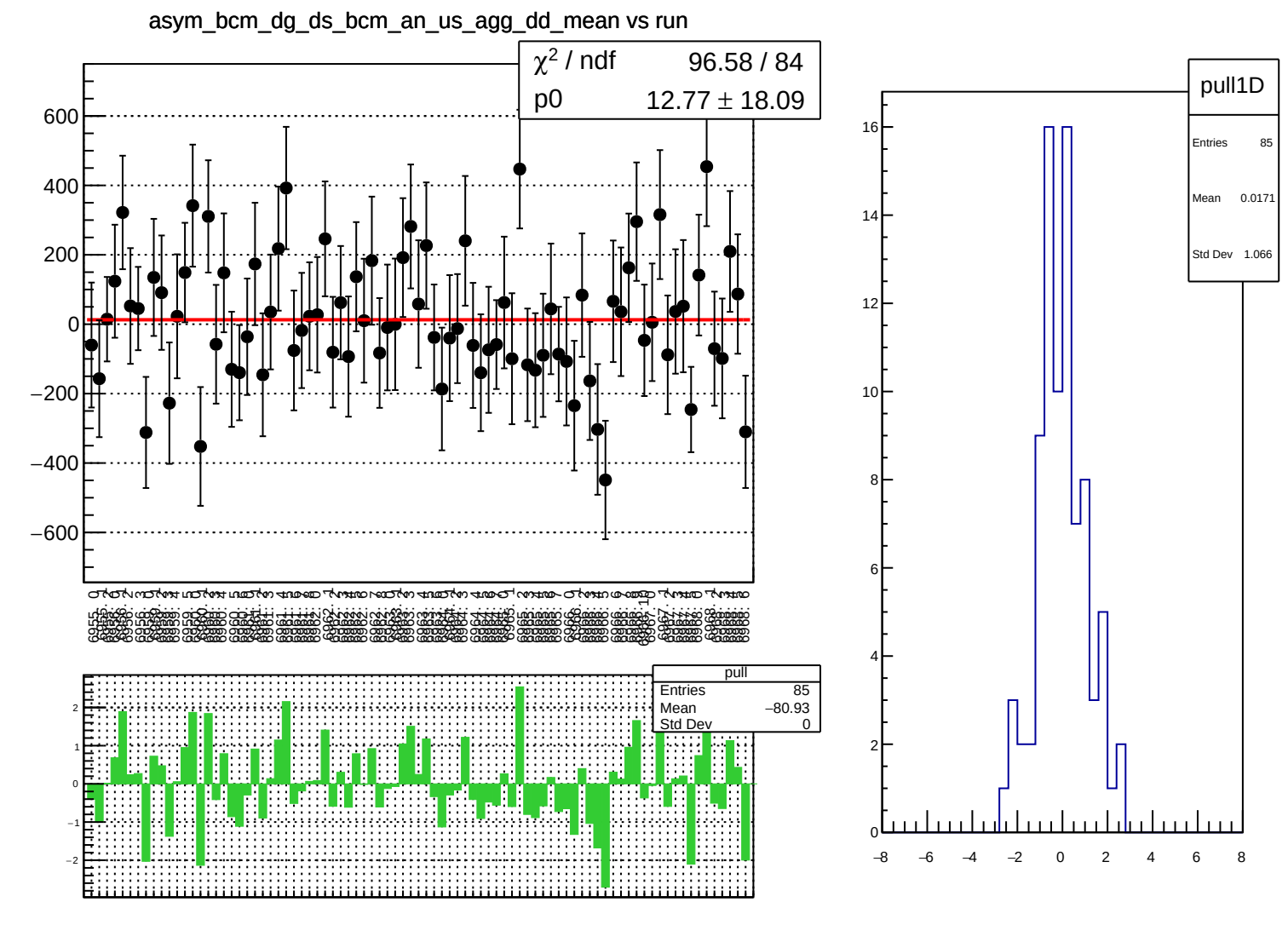

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 64.83 / 84
p0 −10.63 ± 24.96
pull
Entries 85
Mean 1.036e+04
Std Dev 0

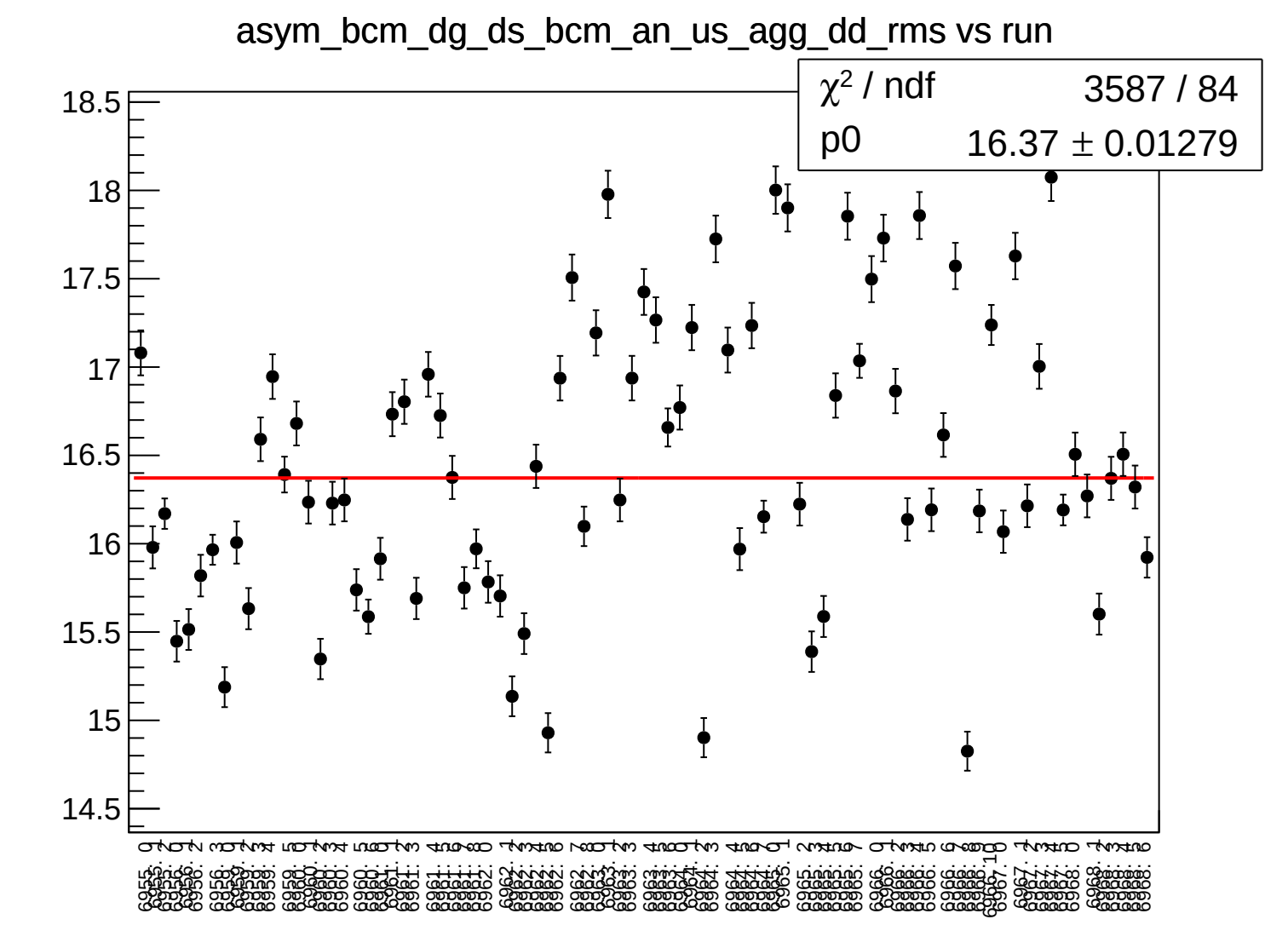

pull1D
Entries 85
Mean −0.000205
Std Dev 0.8733

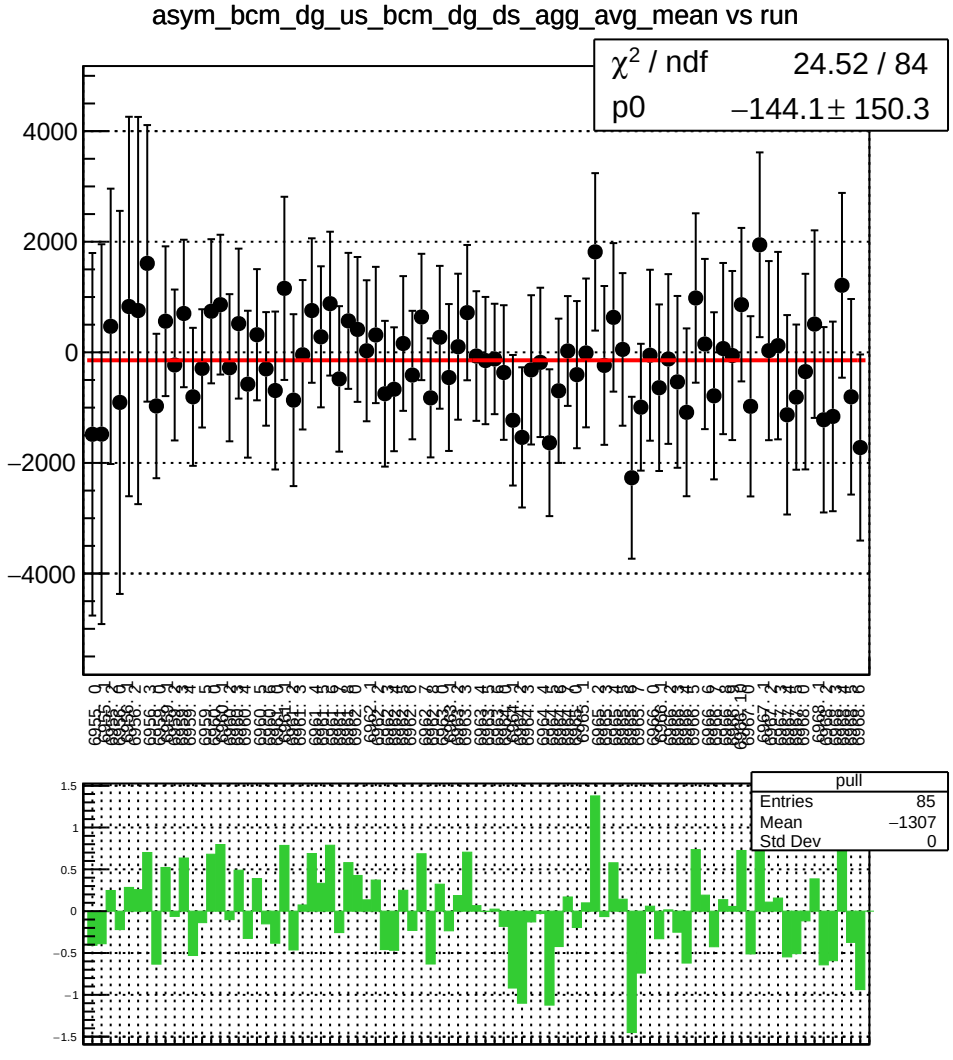

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 574.7 / 84
p0 22.62 ± 0.01765
23.5
23
22.5
22
21.5

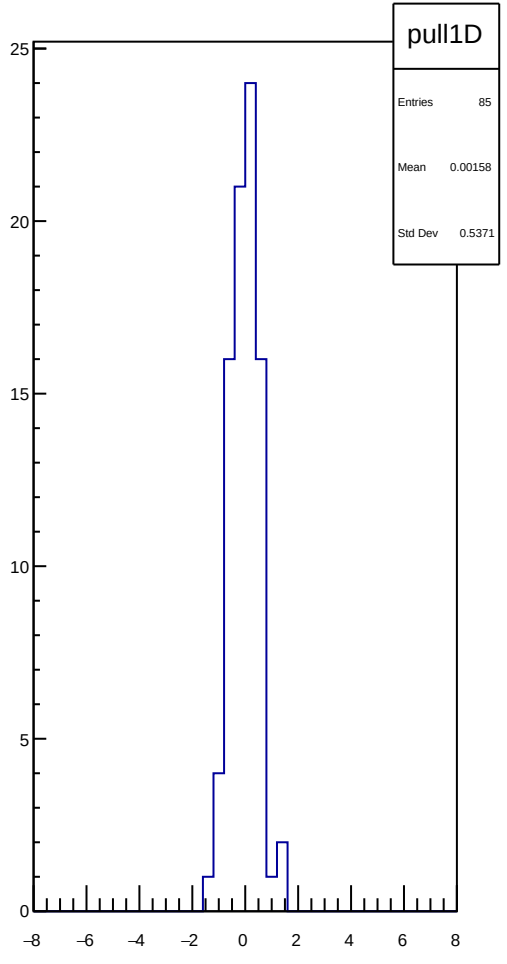

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.45 / 84
p0 −124.9 ± 148.2
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 5360
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.0003766
Std Dev 0.5139
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

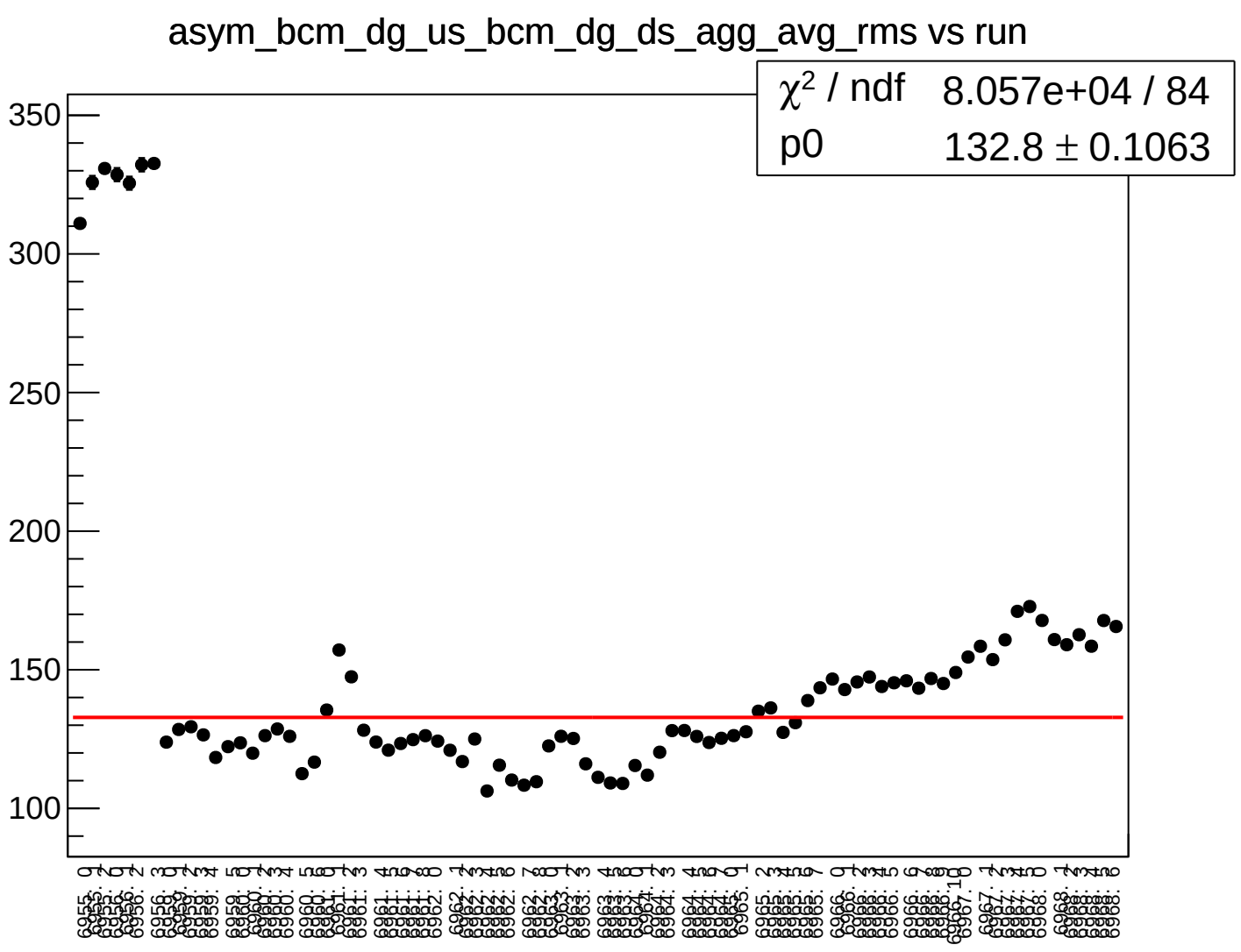

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8.283e+04 / 84
p0 130.9 ± 0.1048
350
300
250
200
150
100

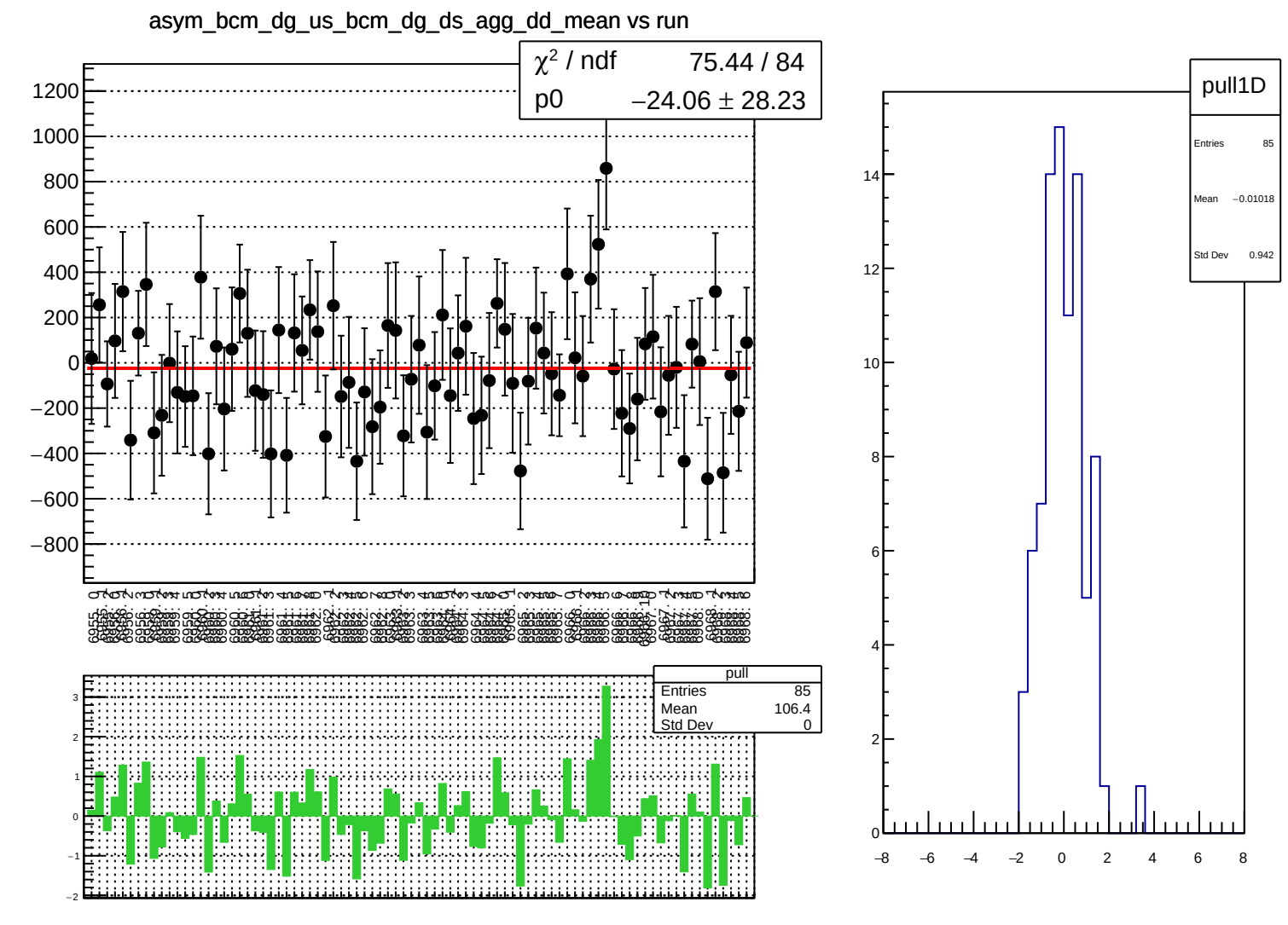

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 96.58 / 84
p0 12.77 ± 18.09
pull
Entries 85
Mean −80.93
Std Dev 0
pull1D
Entries 85
Mean 0.0171
Std Dev 1.066

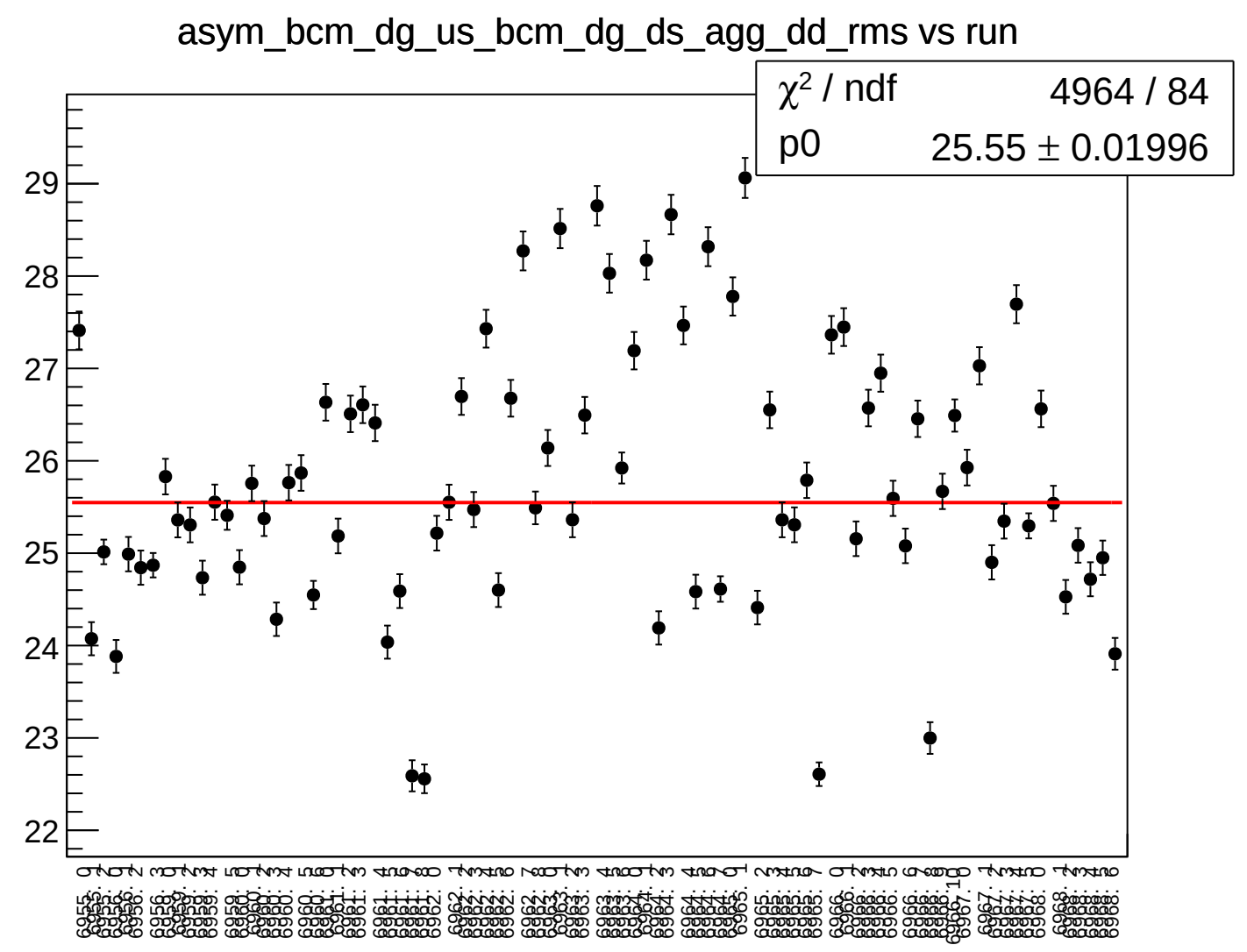

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3587 / 84
p0 16.37 ± 0.01279
18.5
18
17.5
17
16.5
16
15.5
15
14.5

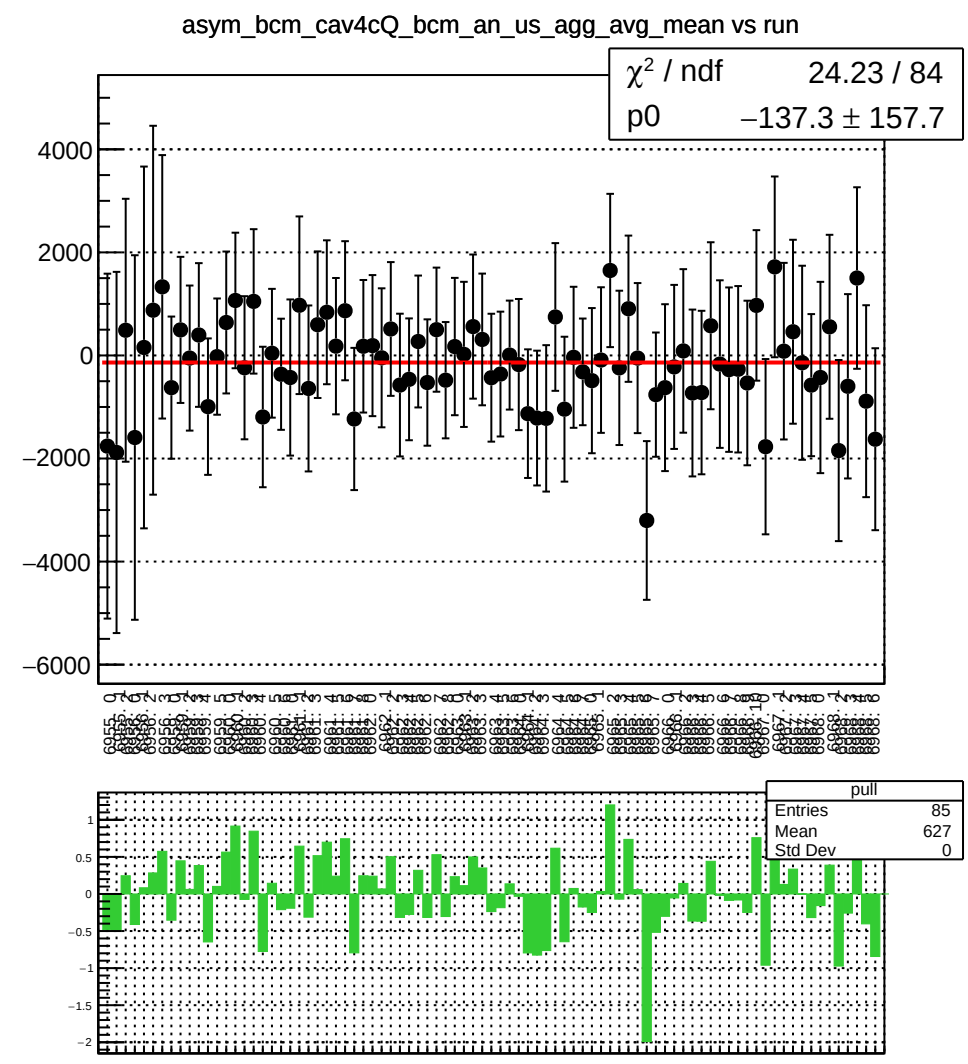

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.52 / 84
p0 −144.1± 150.3
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −1307
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

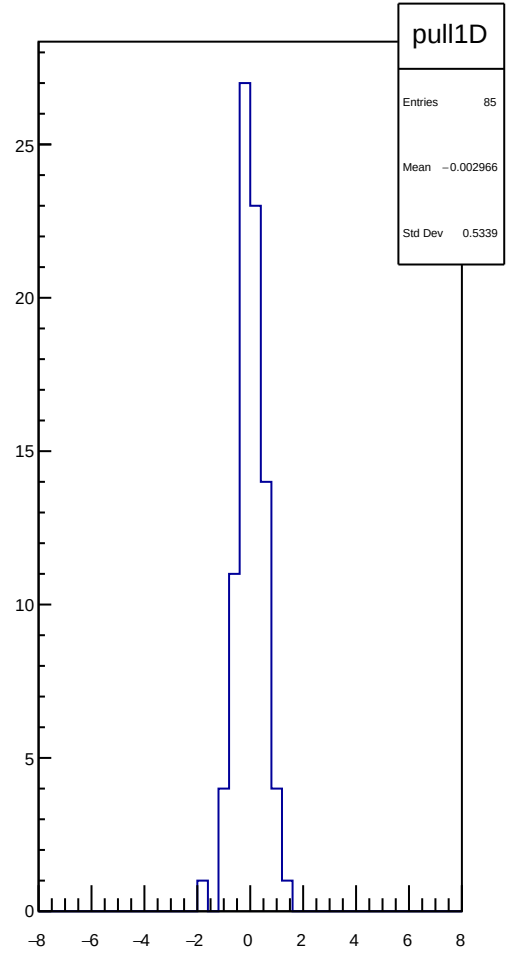

pull1D
Entries 85
Mean 0.00158
Std Dev 0.5371
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

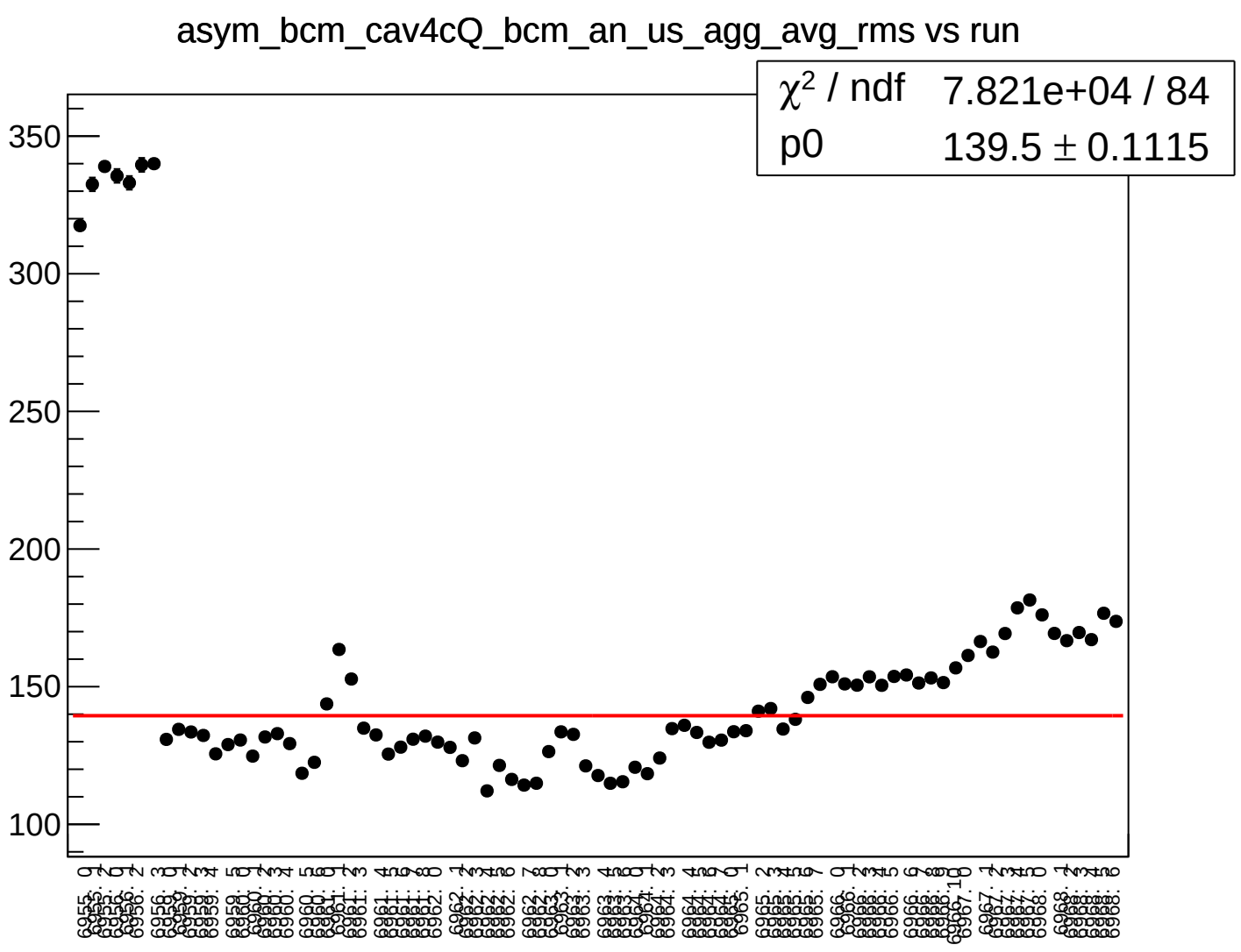

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 8.057e+04 / 84
p0 132.8 ± 0.1063
350
300
250
200
150
100

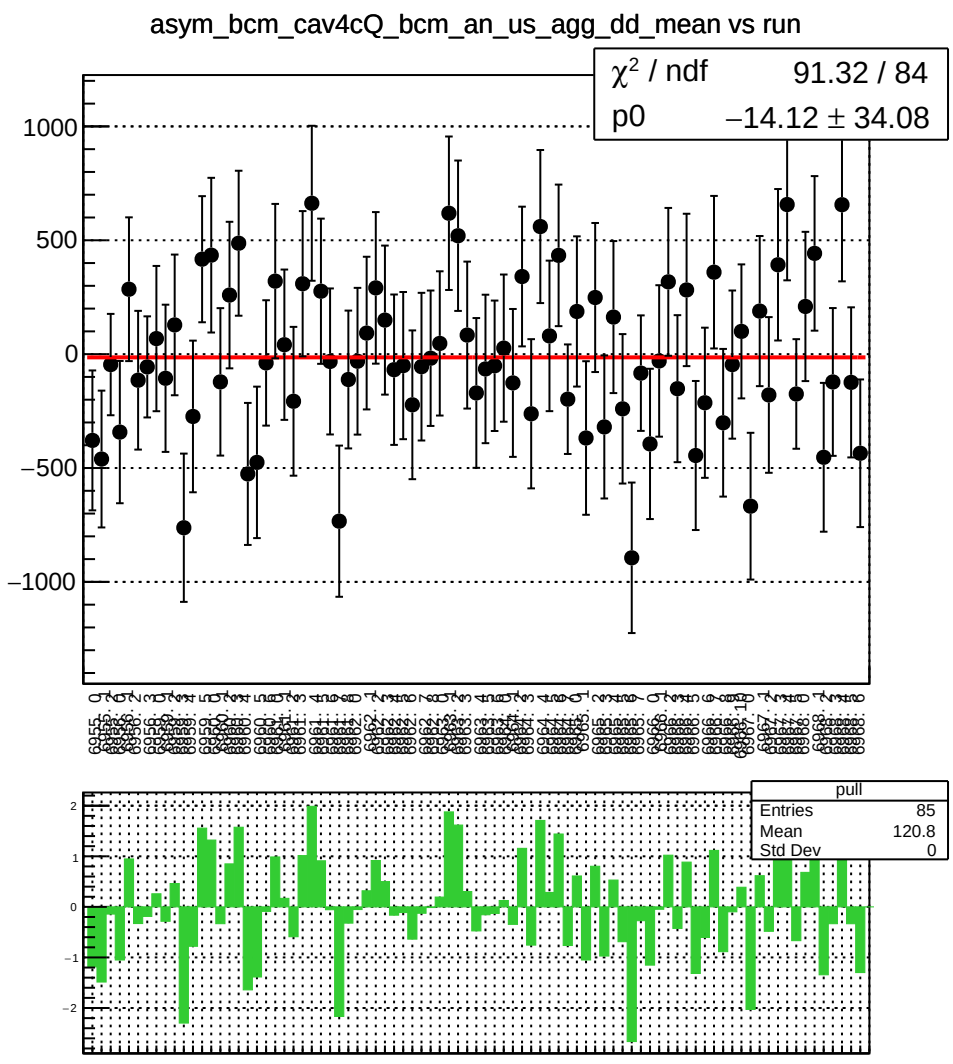

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 75.44 / 84
p0 −24.06 ± 28.23
pull
Entries 85
Mean 106.4
Std Dev 0
pull1D
Entries 85
Mean −0.01018
Std Dev 0.942

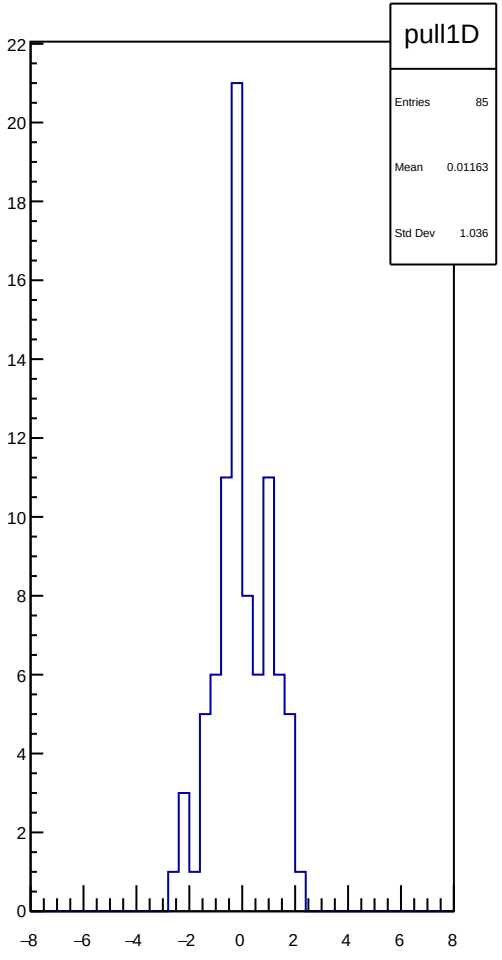

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4964 / 84
p0 25.55 ± 0.01996
29
28
27
26
25
24
23
22

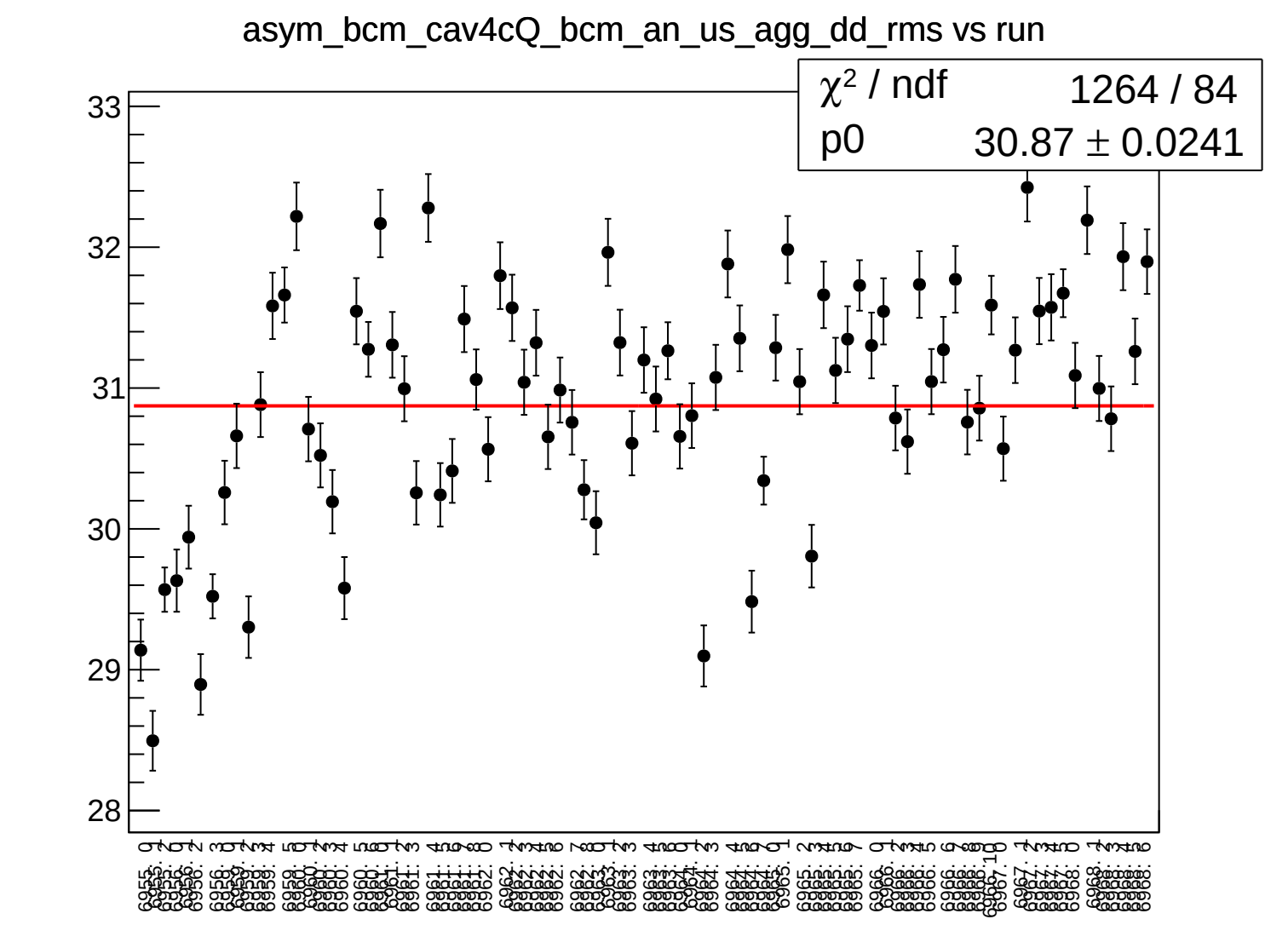

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.23 / 84
p0 −137.3 ± 157.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 627
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

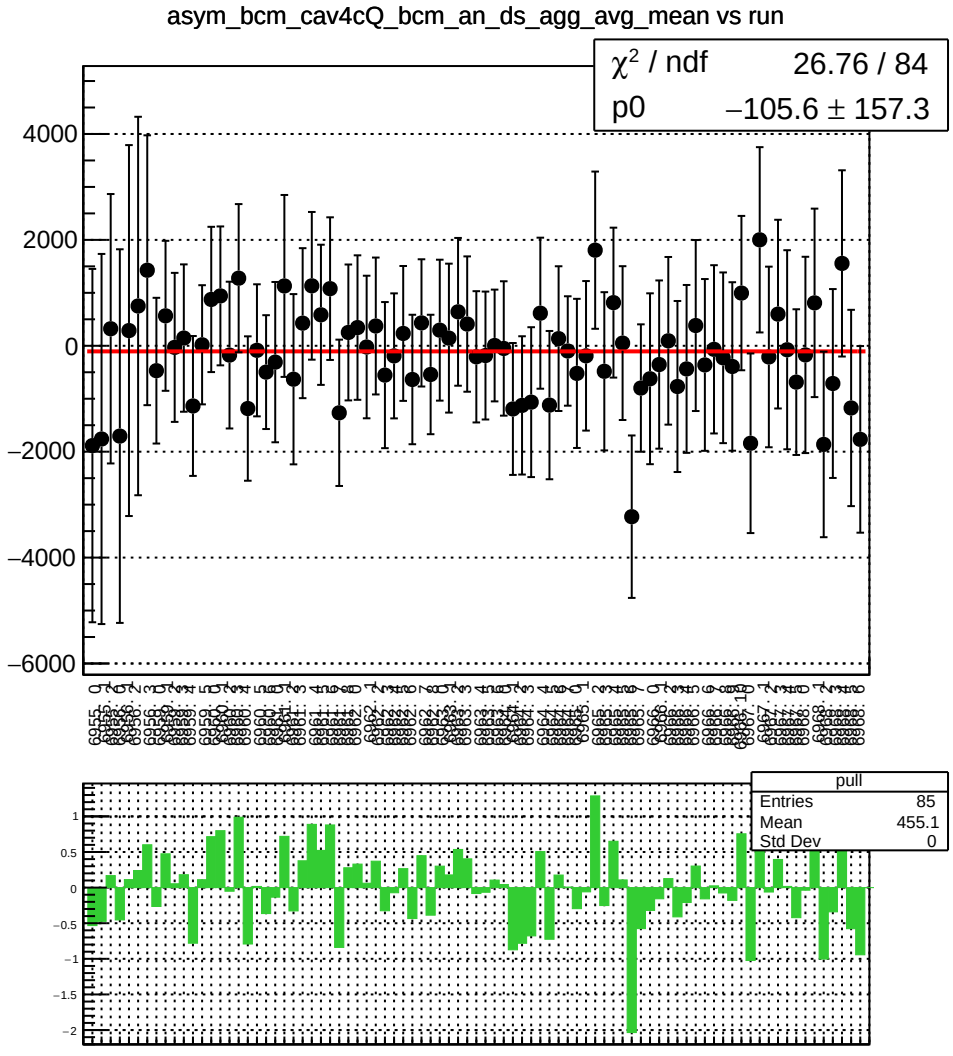

pull1D
Entries 85
Mean −0.002966
Std Dev 0.5339
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

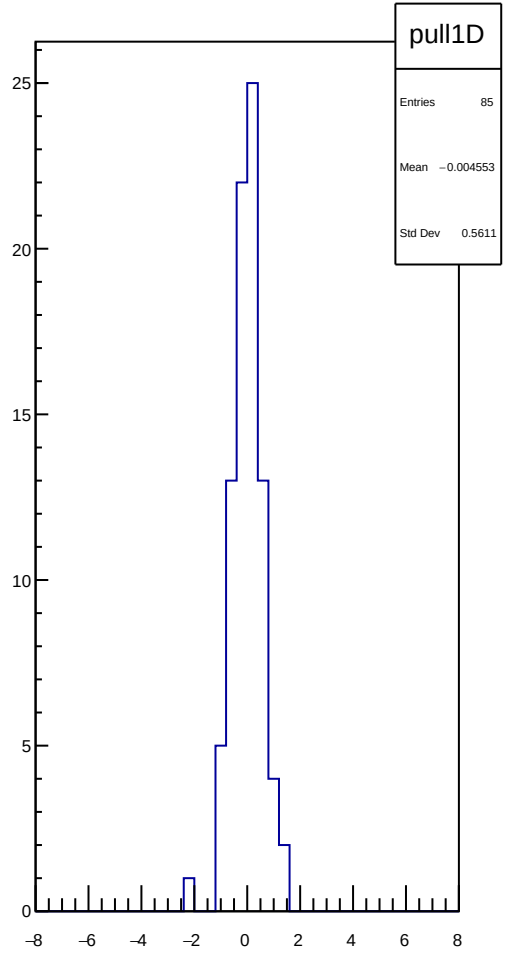

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7.821e+04 / 84
p0 139.5 ± 0.1115
350
300
250
200
150
100

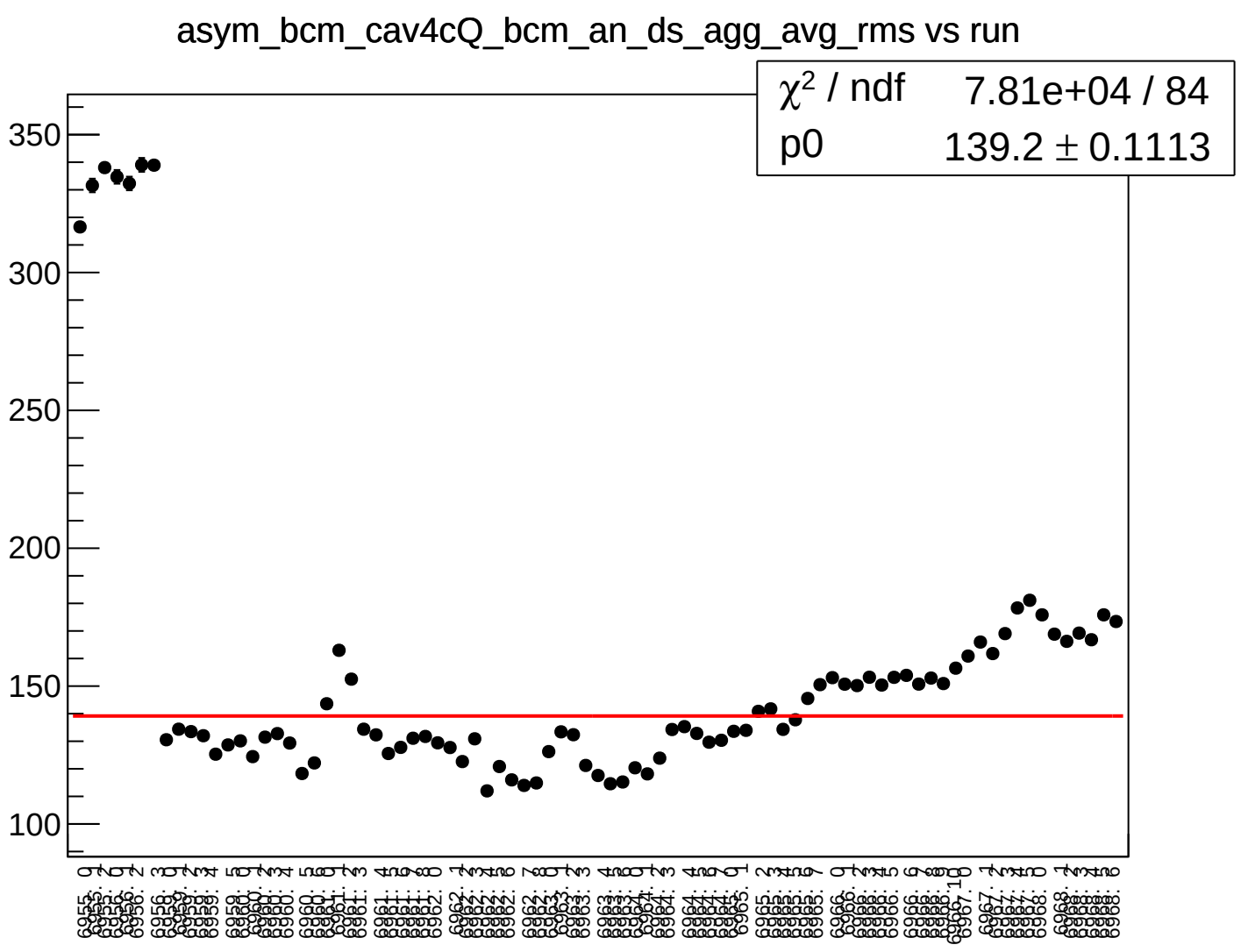

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 91.32 / 84
p0 −14.12 ± 34.08
1000
500
0
−500
−1000
pull
Entries 85
Mean 120.8
Std Dev 0
2
1
0
−1
−2

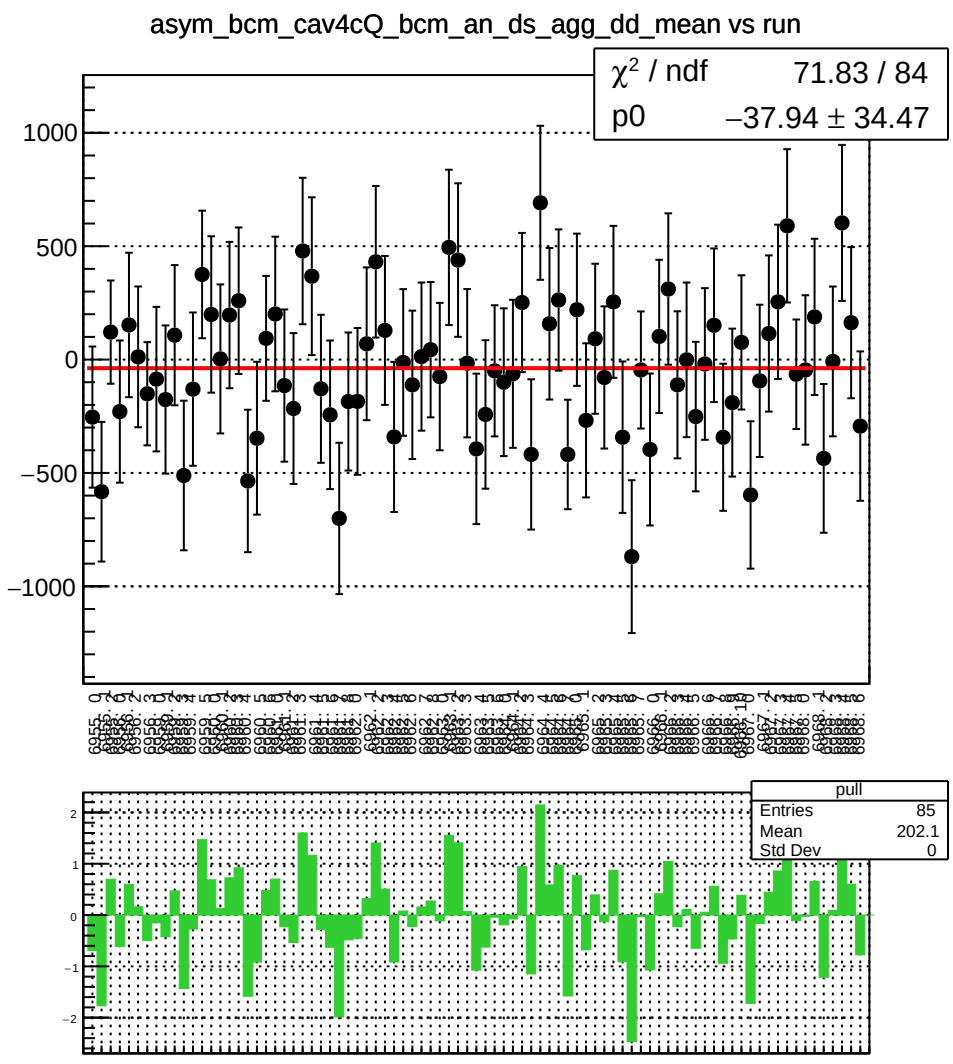

pull1D
Entries 85
Mean 0.01163
Std Dev 1.036
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

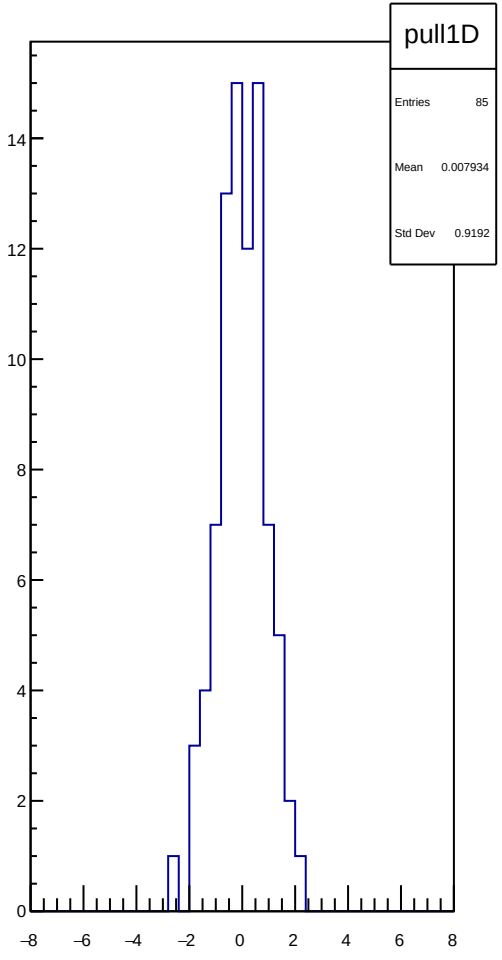

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1264 / 84
p0 30.87 ± 0.0241
33
32
31
30
29
28

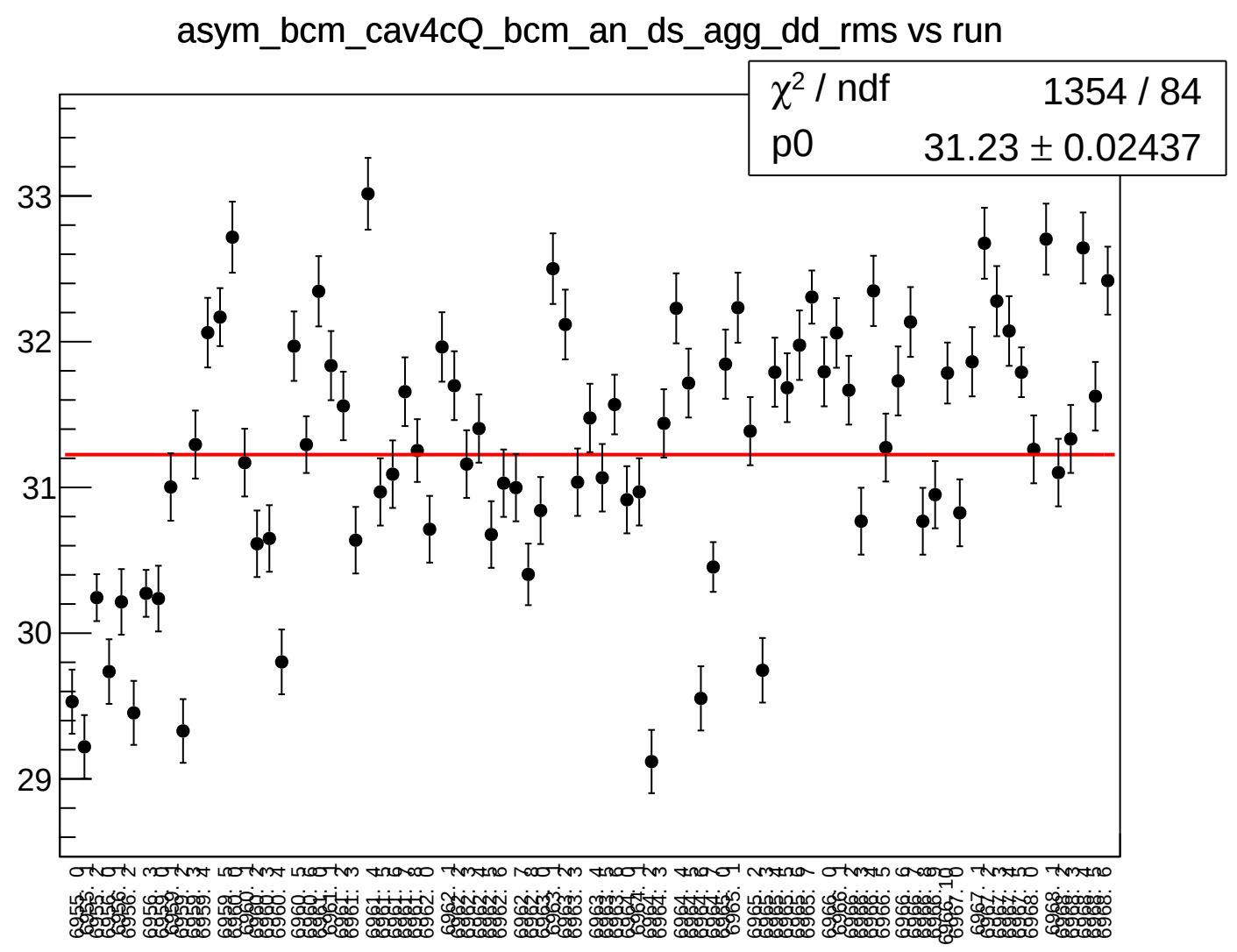

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 26.76 / 84
p0 −105.6 ± 157.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 455.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

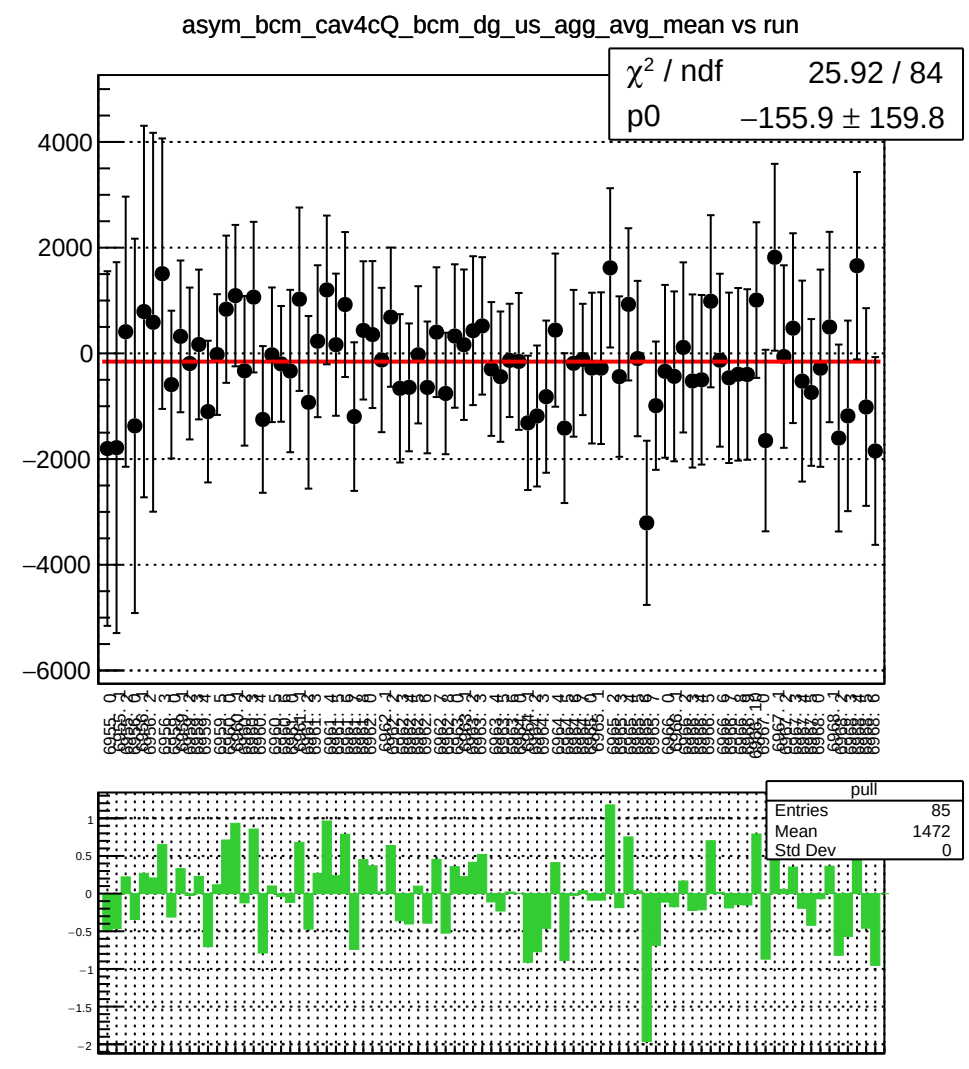

pull1D
Entries 85
Mean −0.004553
Std Dev 0.5611
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

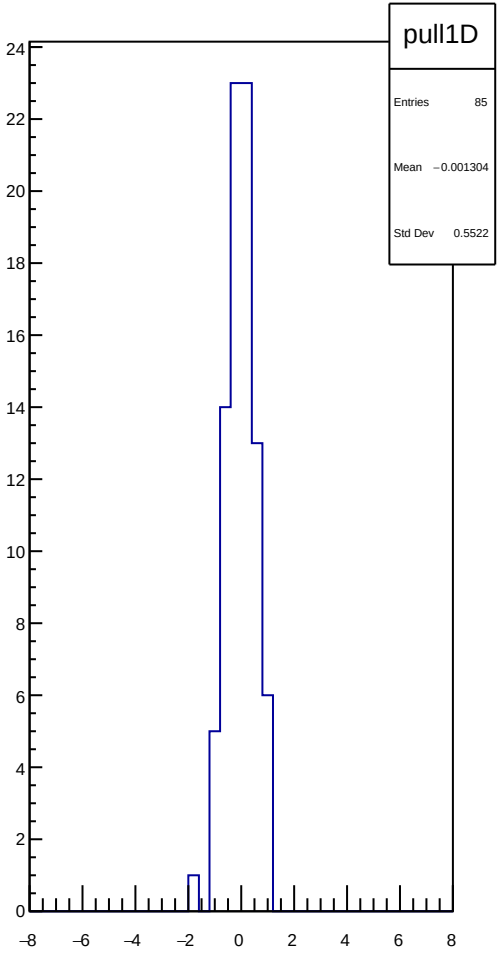

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7.81e+04 / 84
p0 139.2 ± 0.1113
350
300
250
200
150
100

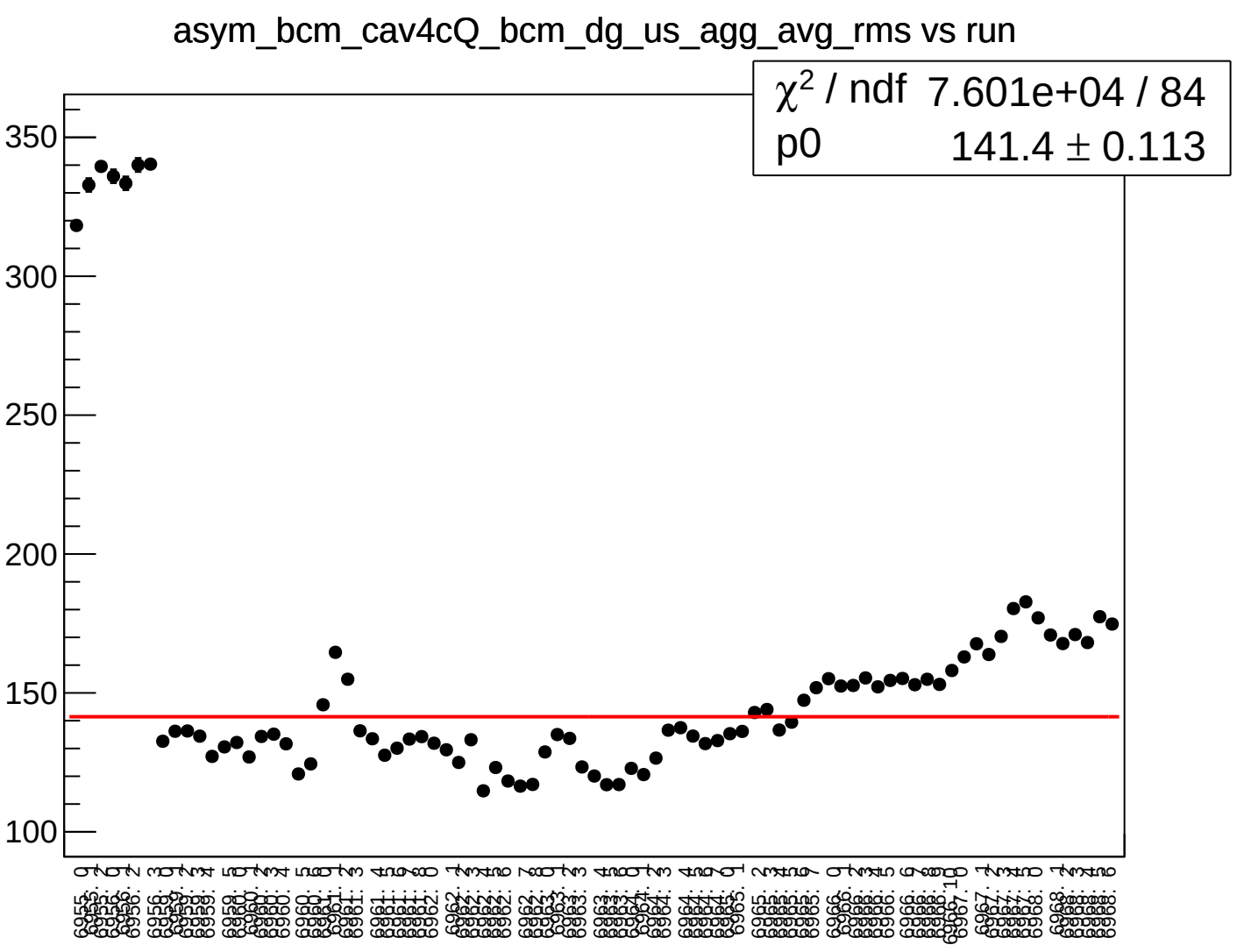

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.83 / 84
p0 −37.94 ± 34.47
1000
500
0
−500
−1000
pull
Entries 85
Mean 202.1
Std Dev 0
2
1
0
−1
−2

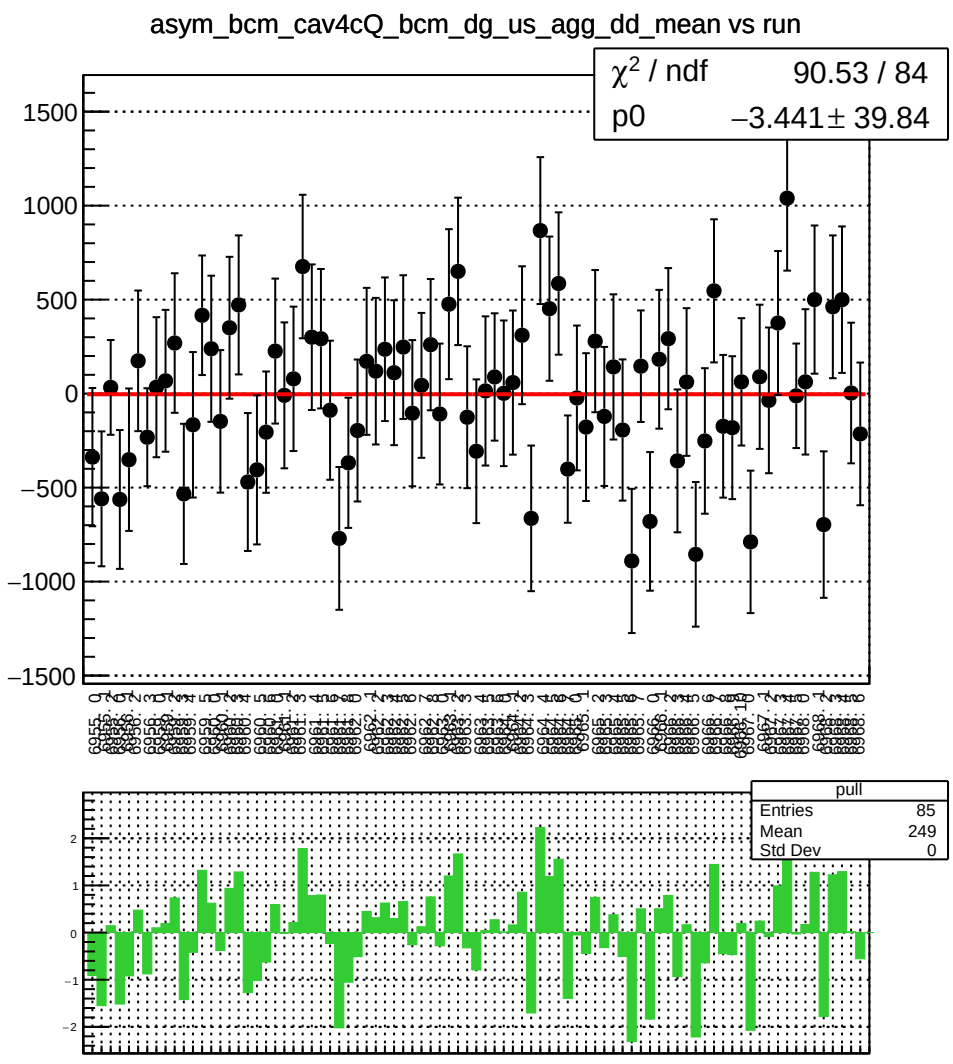

pull1D
Entries 85
Mean 0.007934
Std Dev 0.9192
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

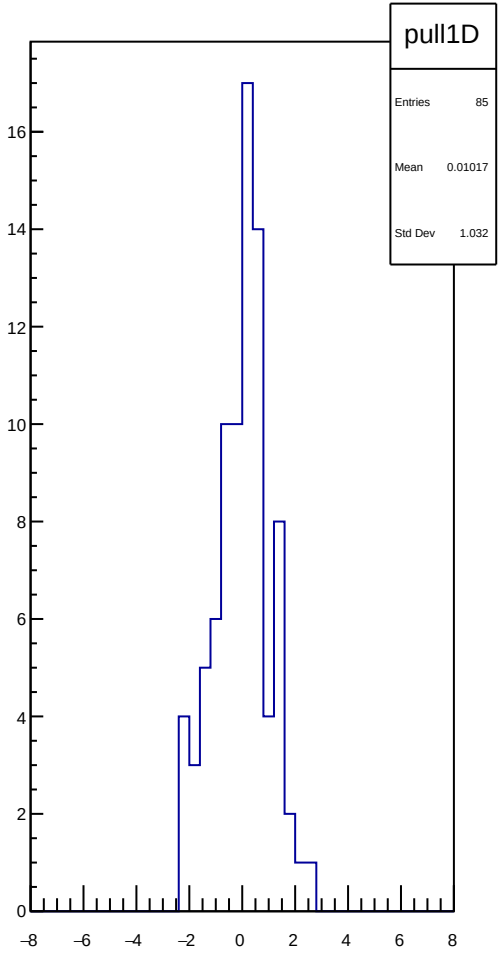

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1354 / 84
p0 31.23 ± 0.02437
33
32
31
30
29

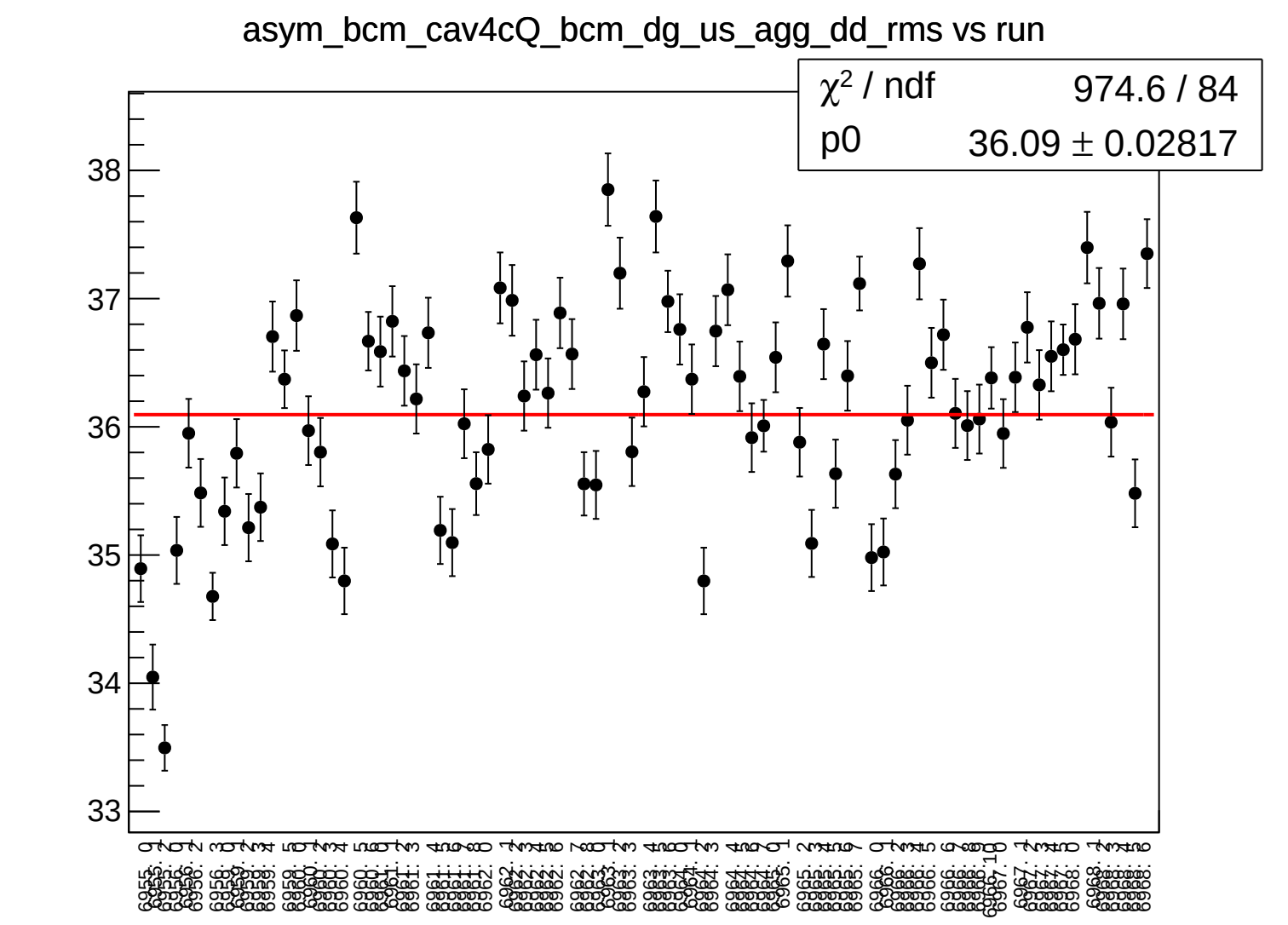

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 25.92 / 84
p0 −155.9 ± 159.8
pull
Entries 85
Mean 1472
Std Dev 0

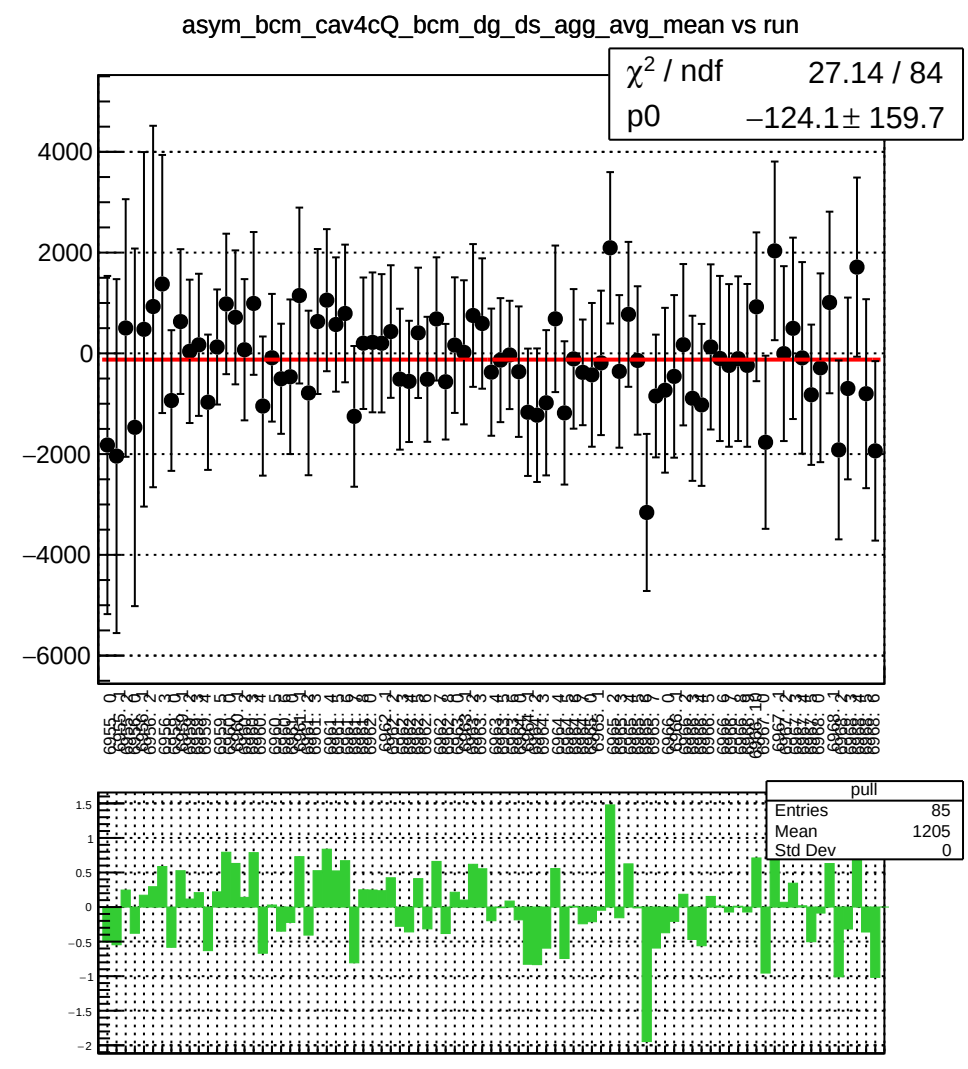

pull1D
Entries 85
Mean −0.001304
Std Dev 0.5522

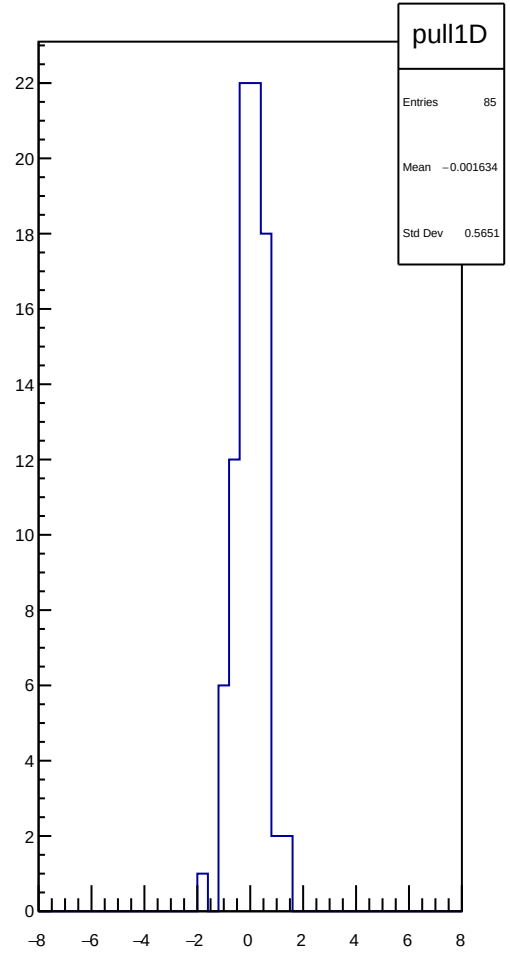

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 7.601e+04 / 84
p0 141.4 ± 0.113
350
300
250
200
150
100

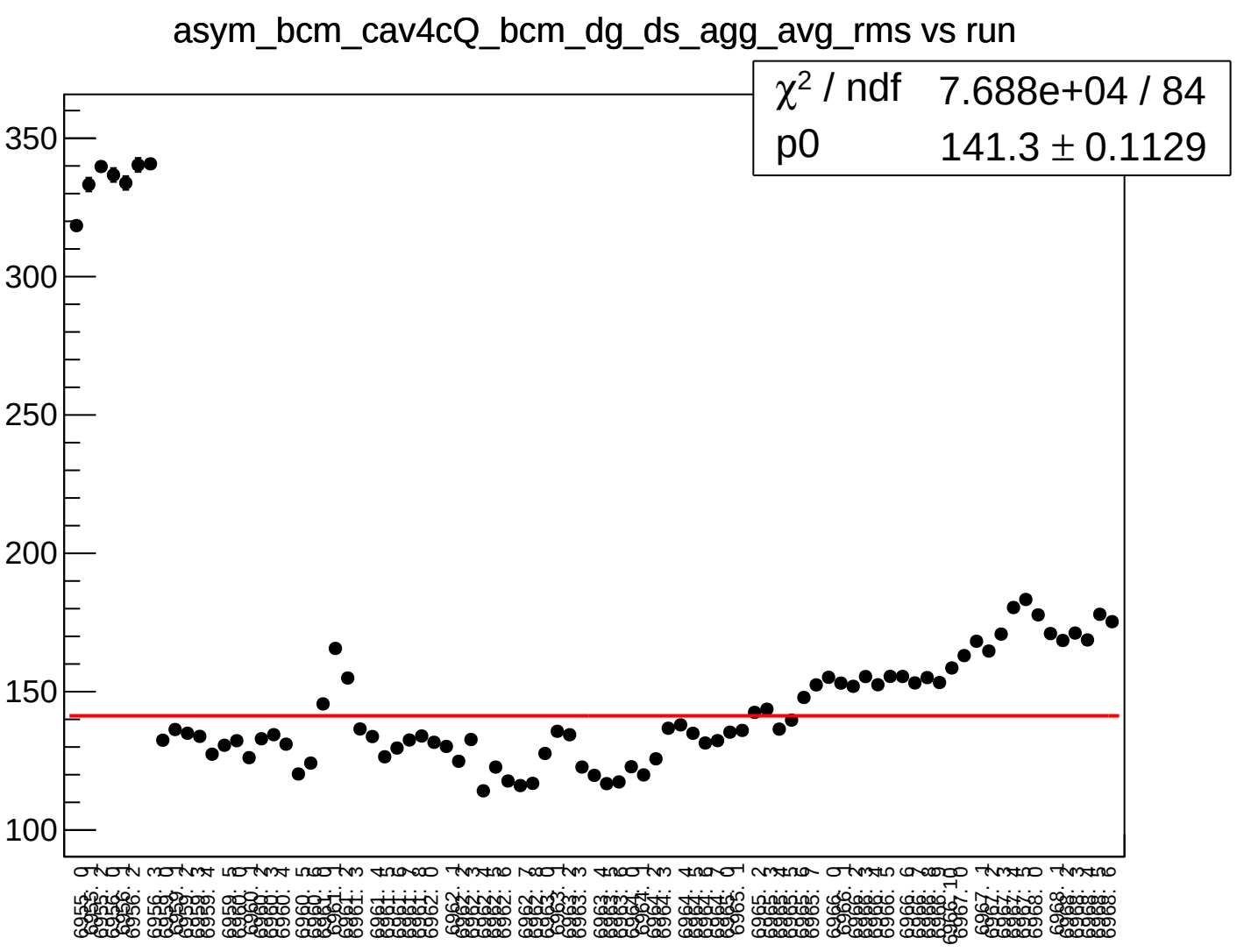

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 90.53 / 84
p0 −3.441 ± 39.84
pull
Entries 85
Mean 249
Std Dev 0

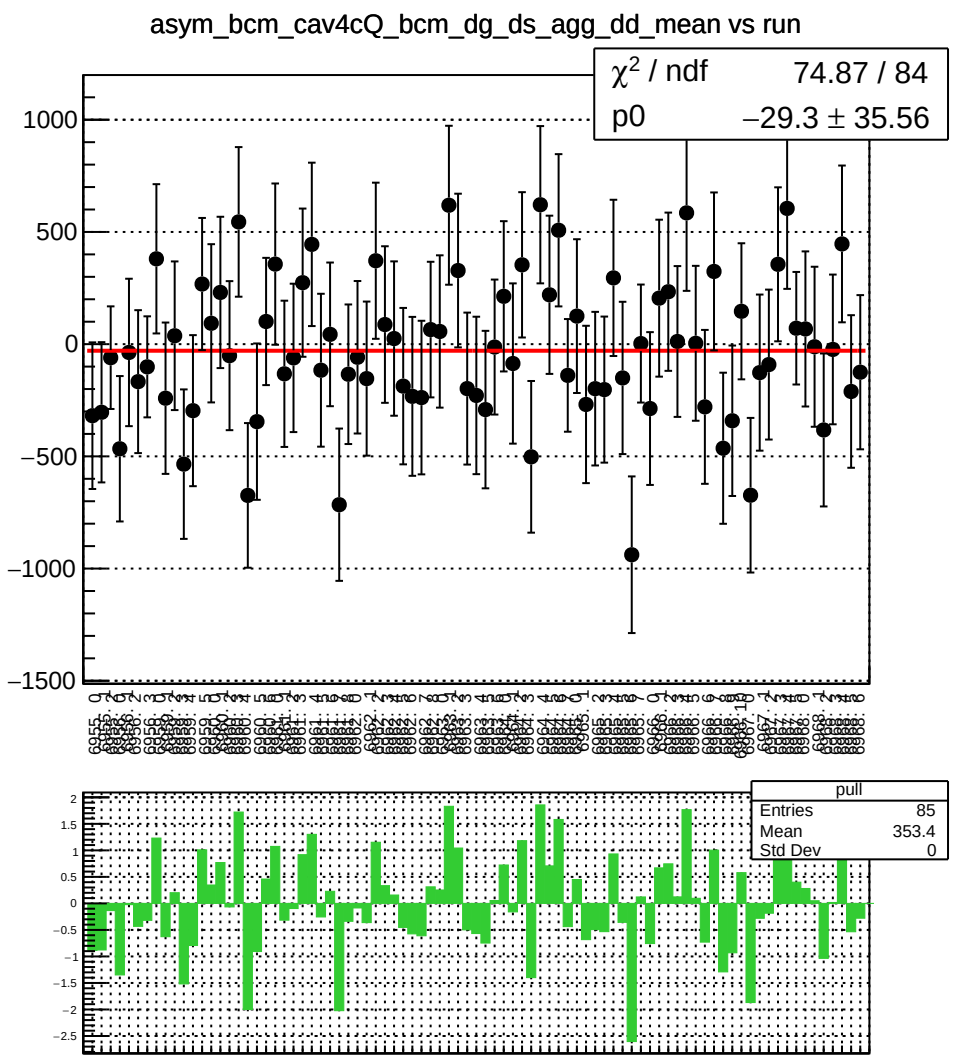

pull1D
Entries 85
Mean 0.01017
Std Dev 1.032

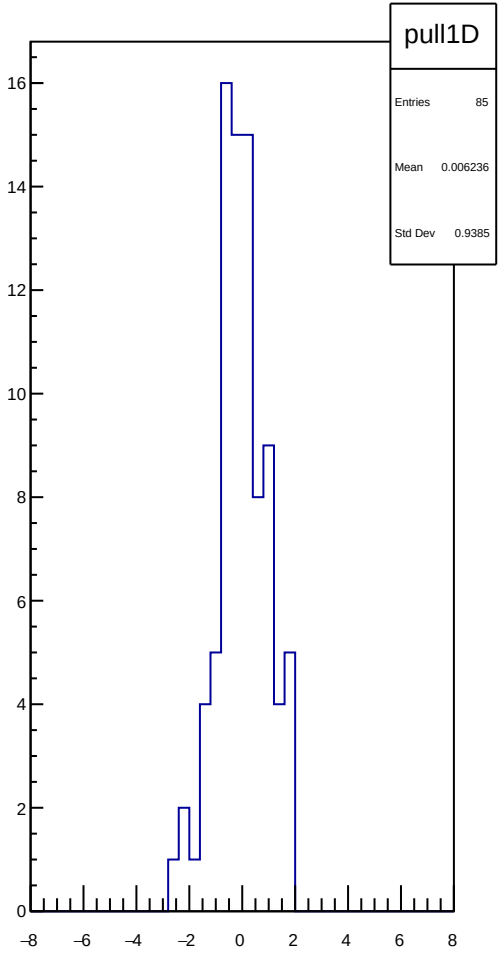

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 974.6 / 84
p0 36.09 ± 0.02817
38
37
36
35
34
33

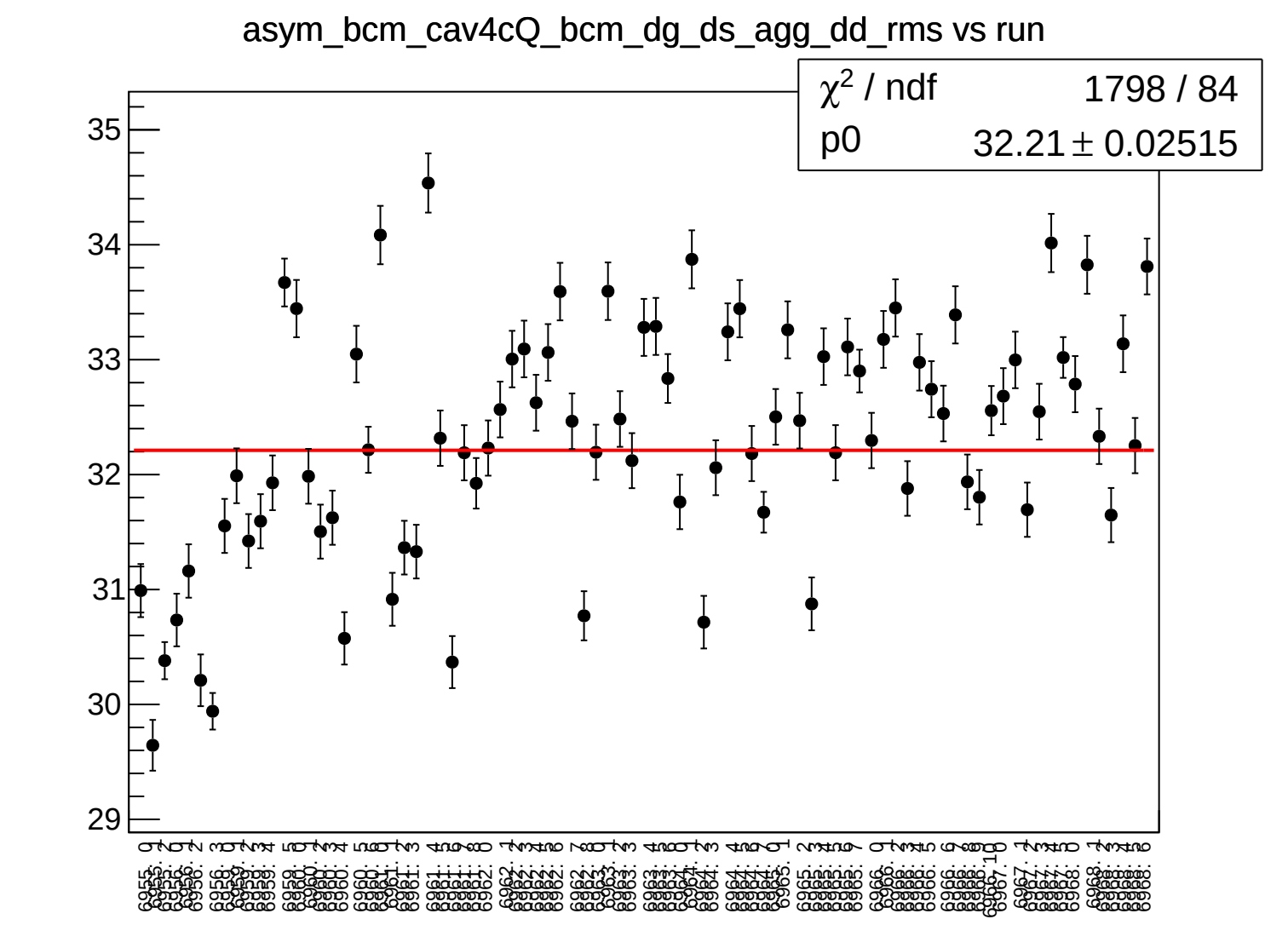

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 27.14 / 84
p0 −124.1± 159.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 1205
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

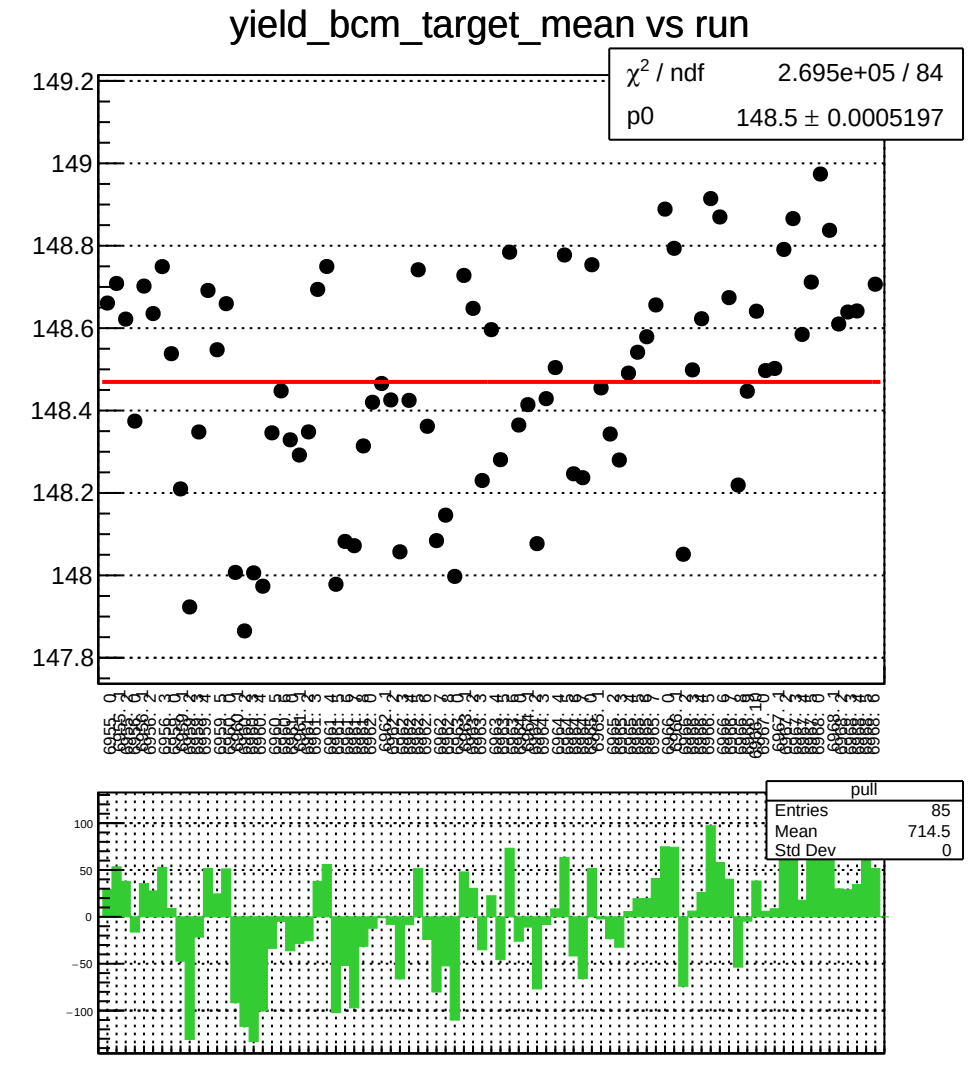

pull1D
Entries 85
Mean −0.001634
Std Dev 0.5651
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

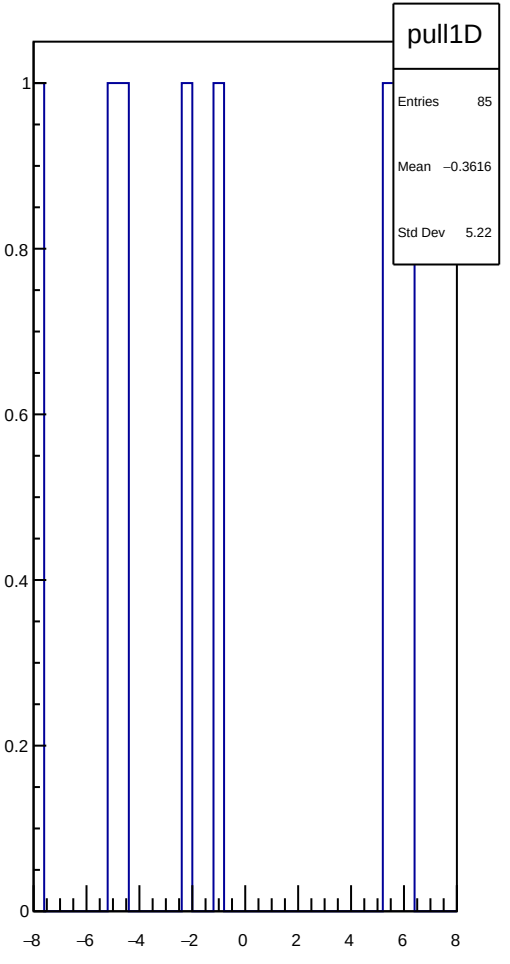

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7.688e+04 / 84
p0 141.3 ± 0.1129
350
300
250
200
150
100

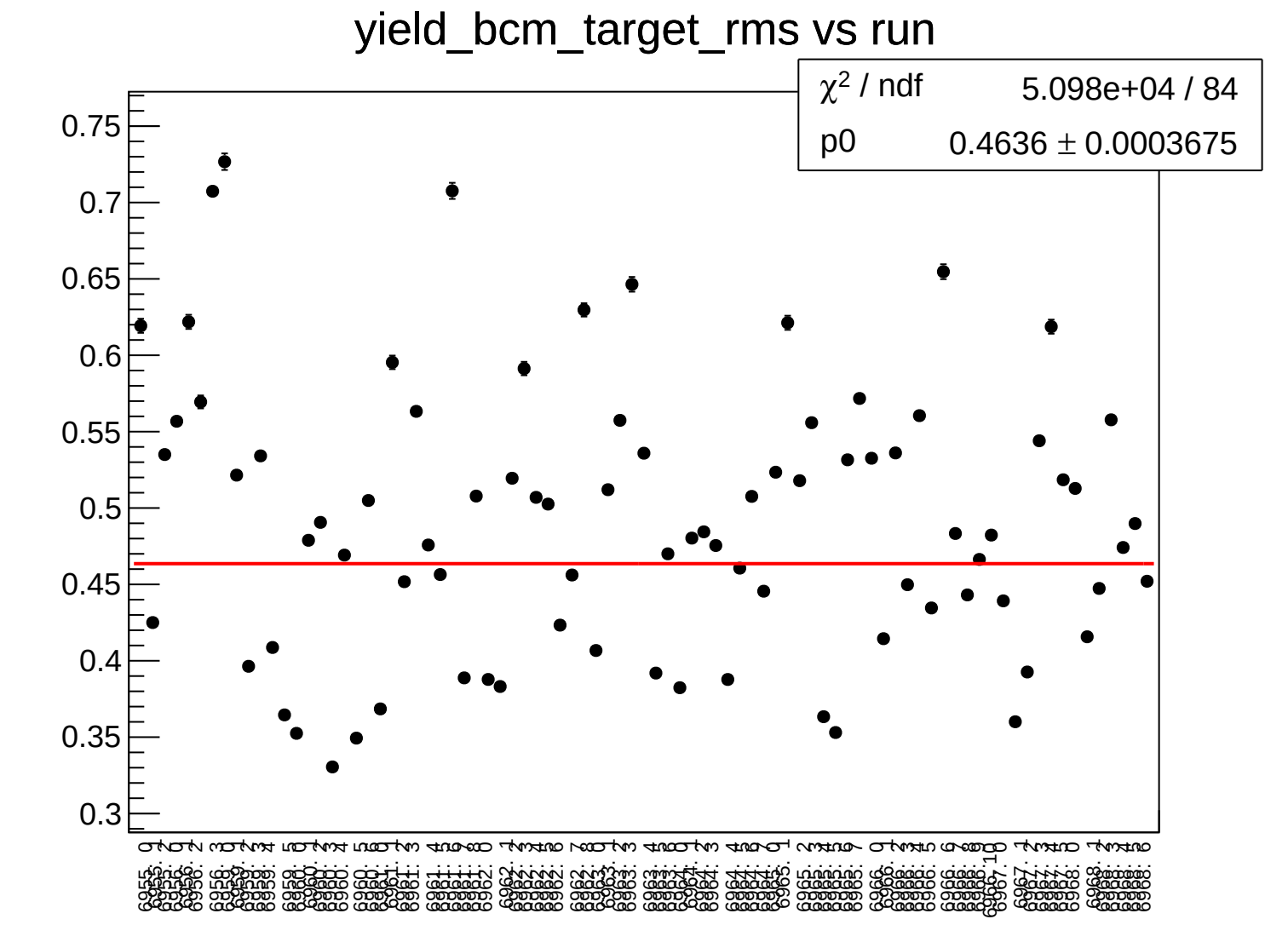

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 74.87 / 84
p0 −29.3 ± 35.56
pull
Entries 85
Mean 353.4
Std Dev 0

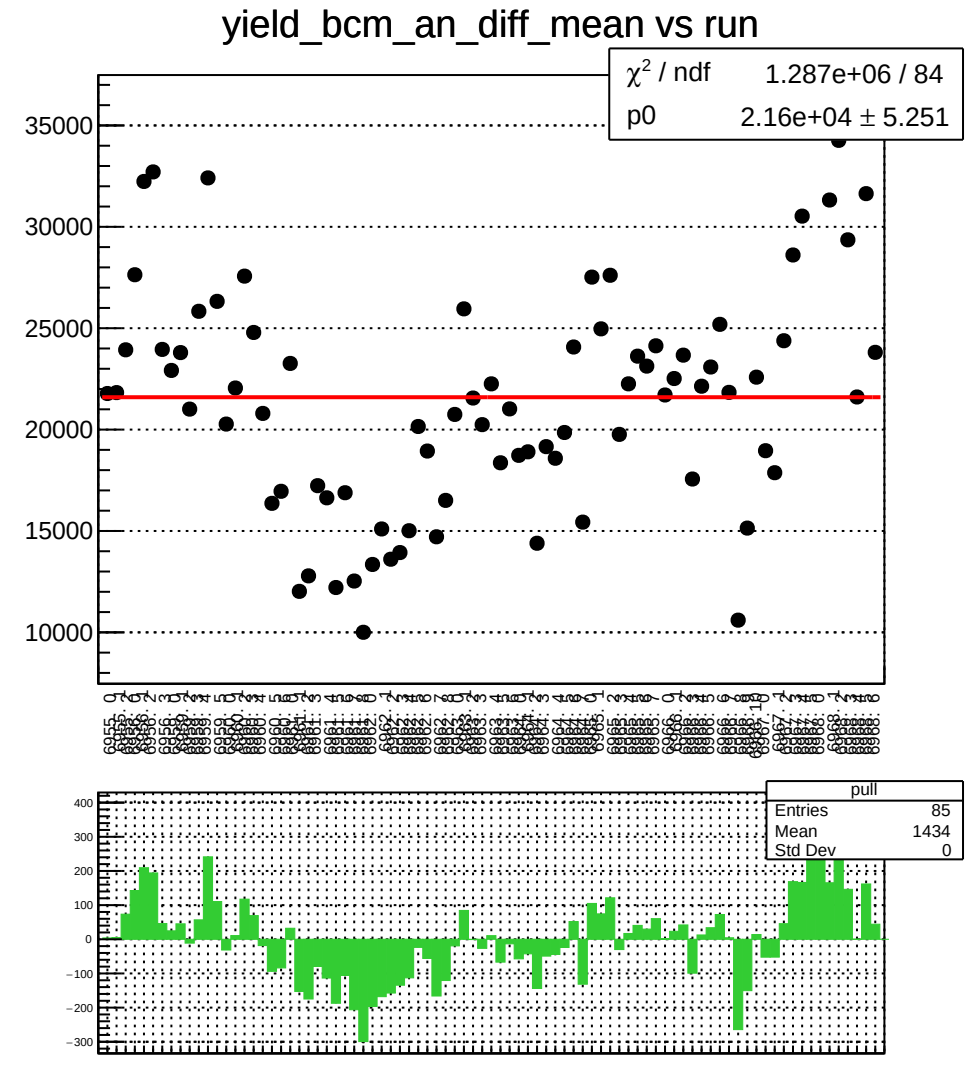

pull1D
Entries 85
Mean 0.006236
Std Dev 0.9385

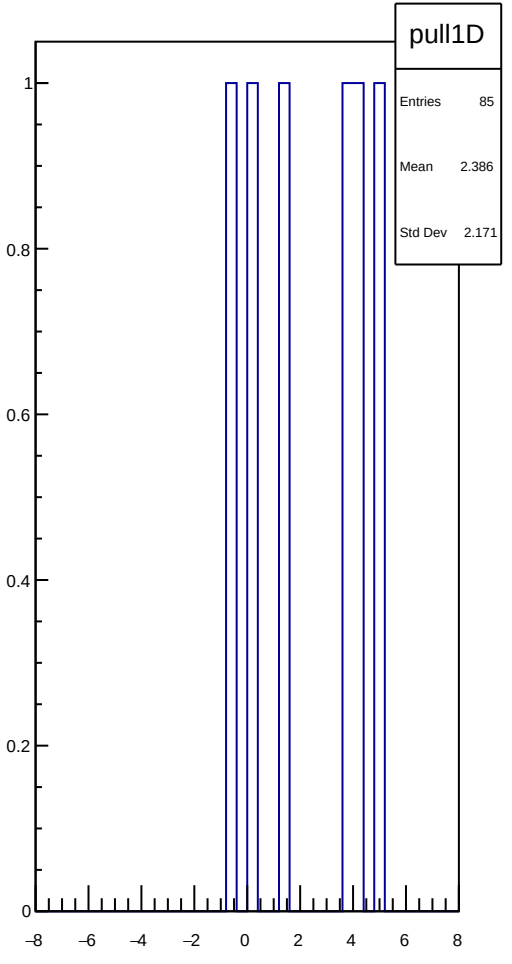

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1798 / 84
p0 32.21 ± 0.02515
35
34
33
32
31
30
29

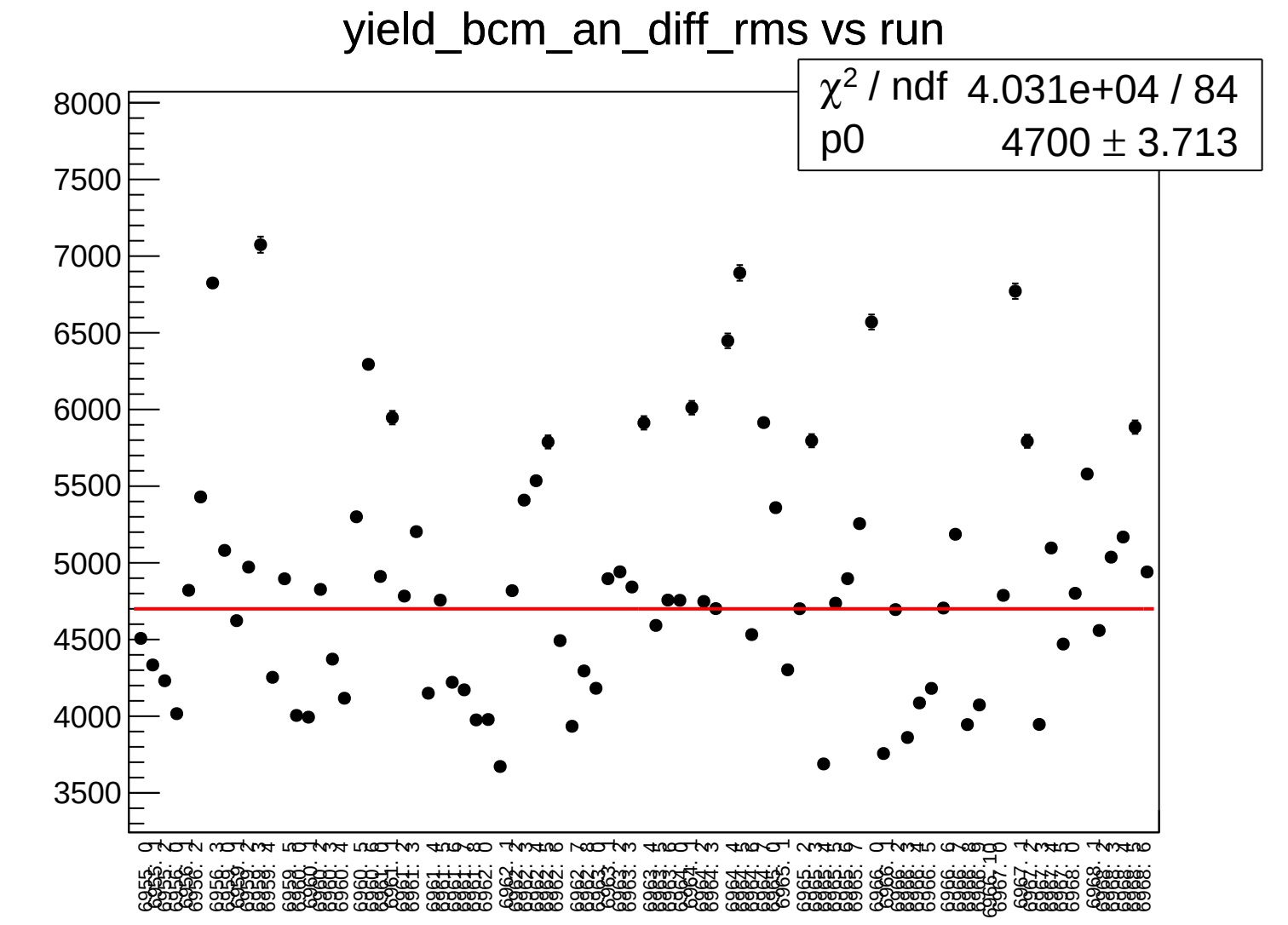

yield_bcm_target_mean vs run
χ² / ndf 2.695e+05 / 84
p0 148.5 ± 0.0005197
149.2
149
148.8
148.6
148.4
148.2
148
147.8
pull
Entries 85
Mean 714.5
Std Dev 0
100
50
0
−50
−100

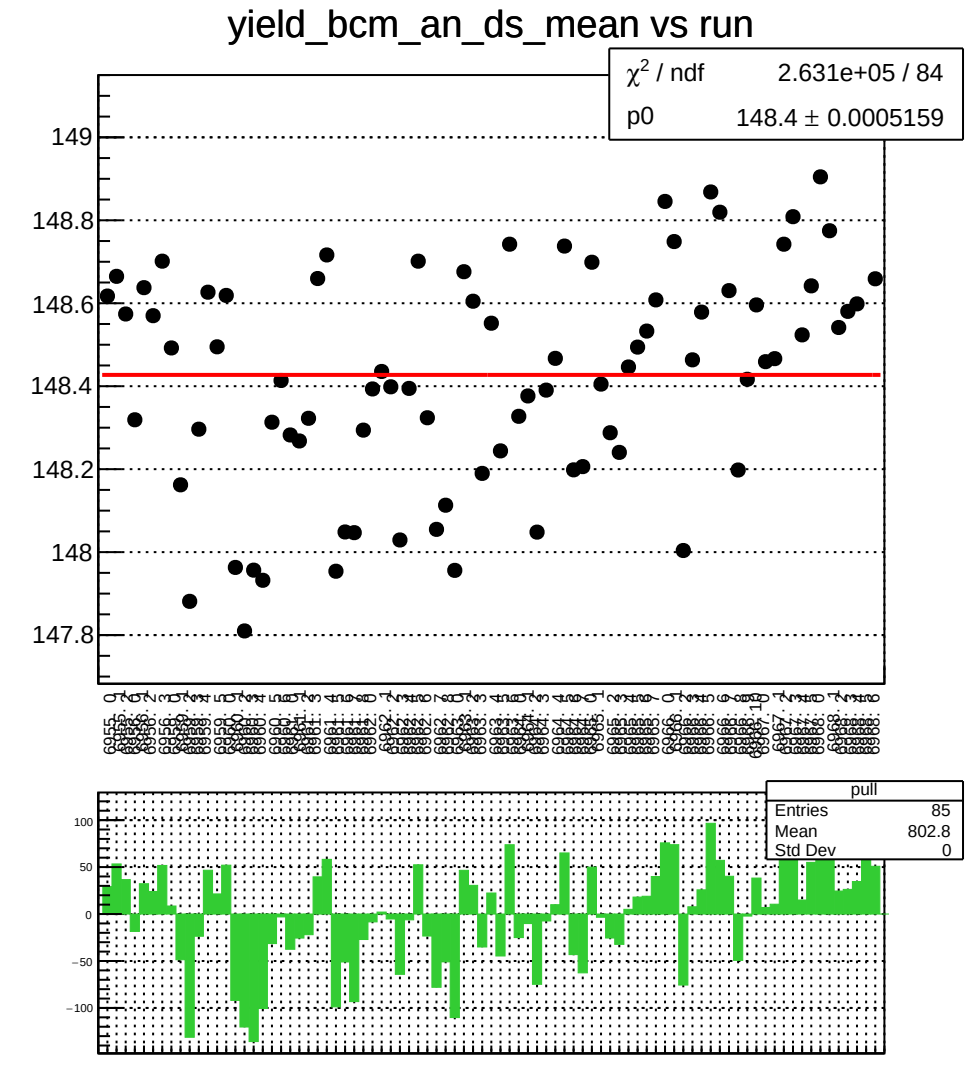

pull1D
Entries 85
Mean −0.3616
Std Dev 5.22
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

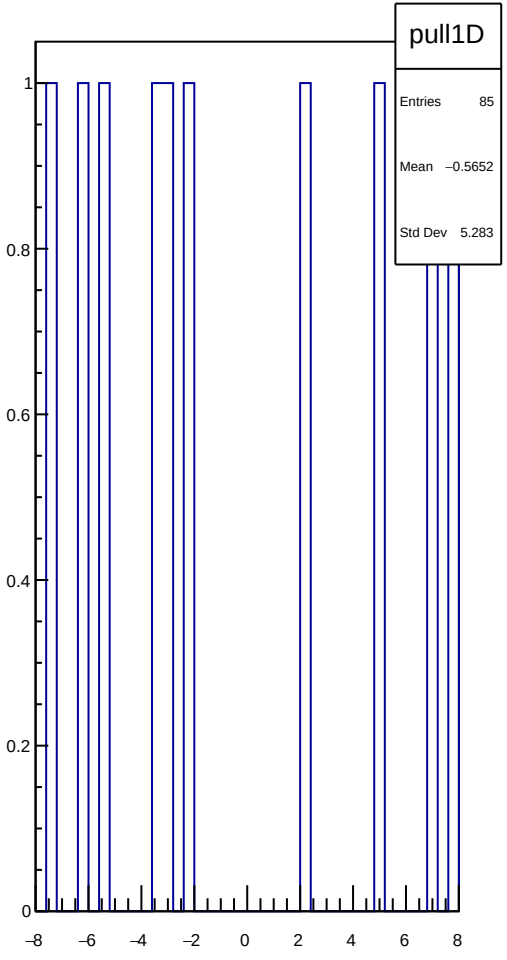

yield_bcm_target_rms vs run
χ² / ndf 5.098e+04 / 84
p0 0.4636 ± 0.0003675
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

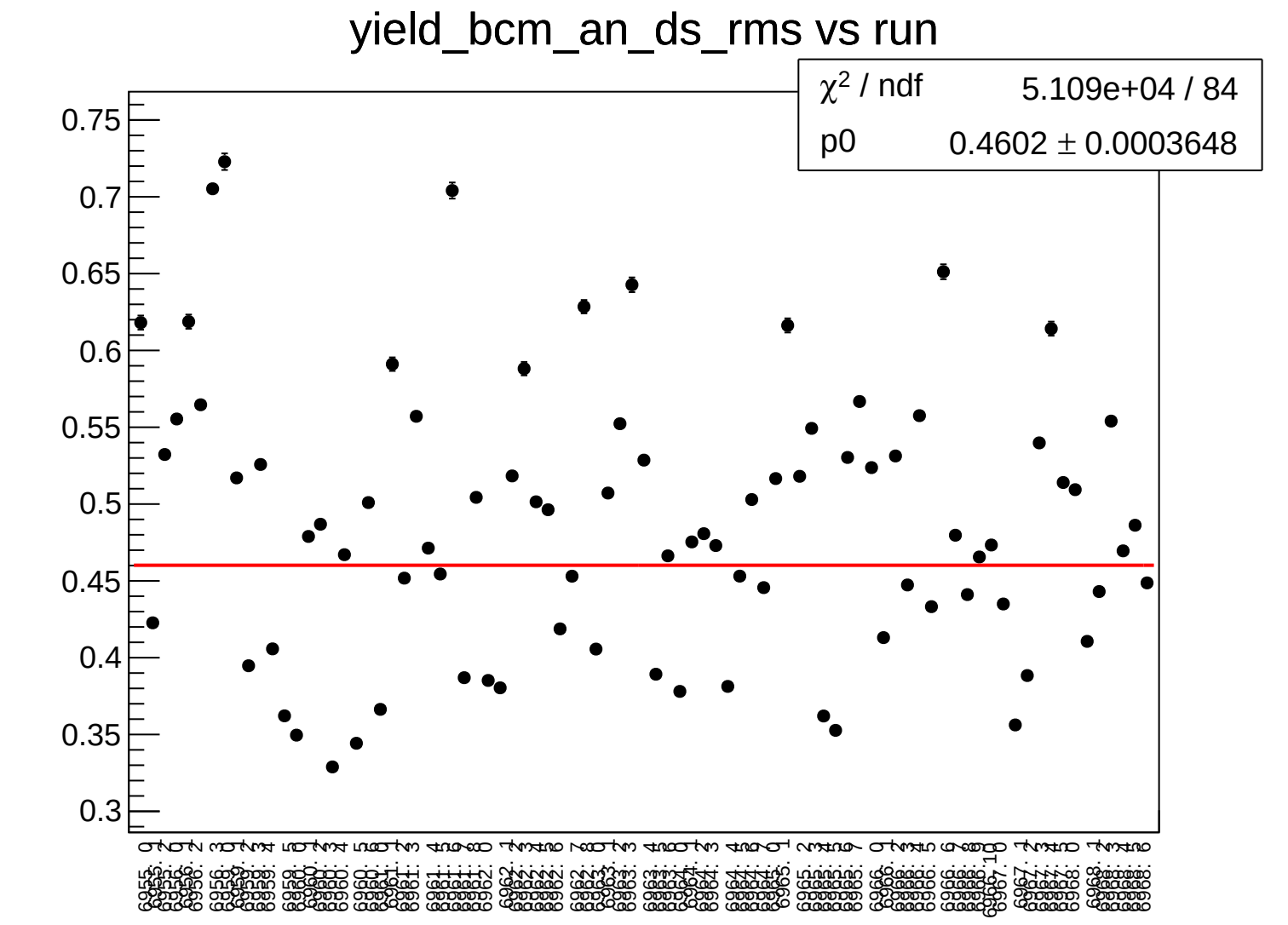

yield_bcm_an_diff_mean vs run
χ² / ndf 1.287e+06 / 84
p0 2.16e+04 ± 5.251
35000
30000
25000
20000
15000
10000
pull
Entries 85
Mean 1434
Std Dev 0
400
300
200
100
0
−100
−200
−300

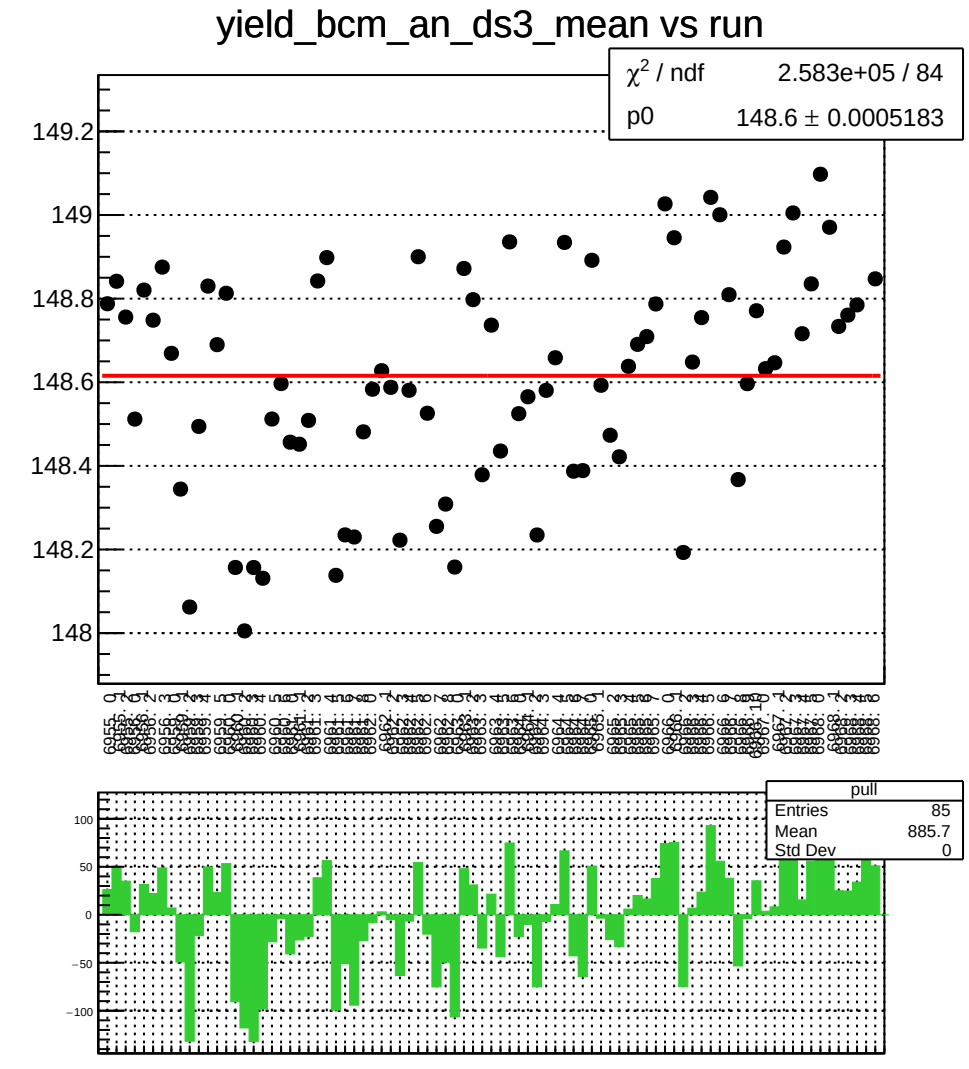

pull1D
Entries 85
Mean 2.386
Std Dev 2.171
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

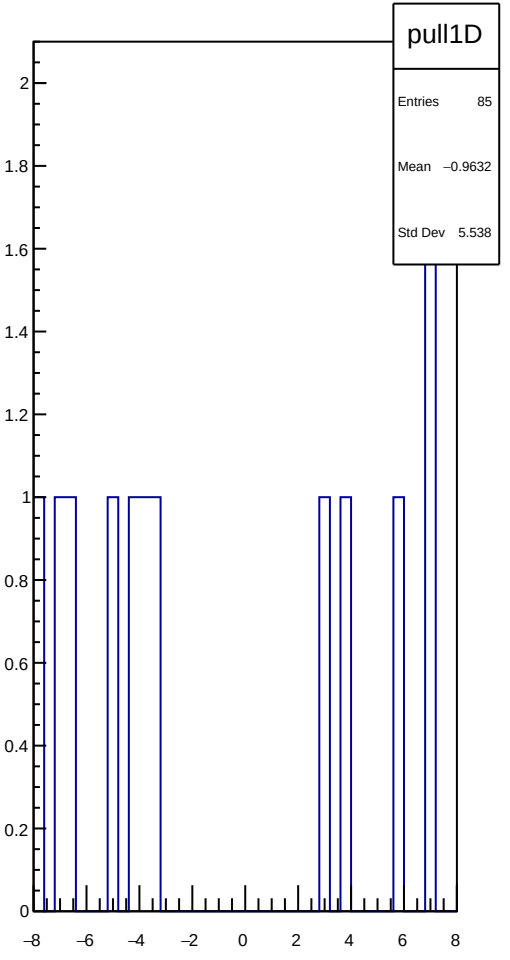

yield_bcm_an_diff_rms vs run
χ² / ndf 4.031e+04 / 84
p0 4700 ± 3.713
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500

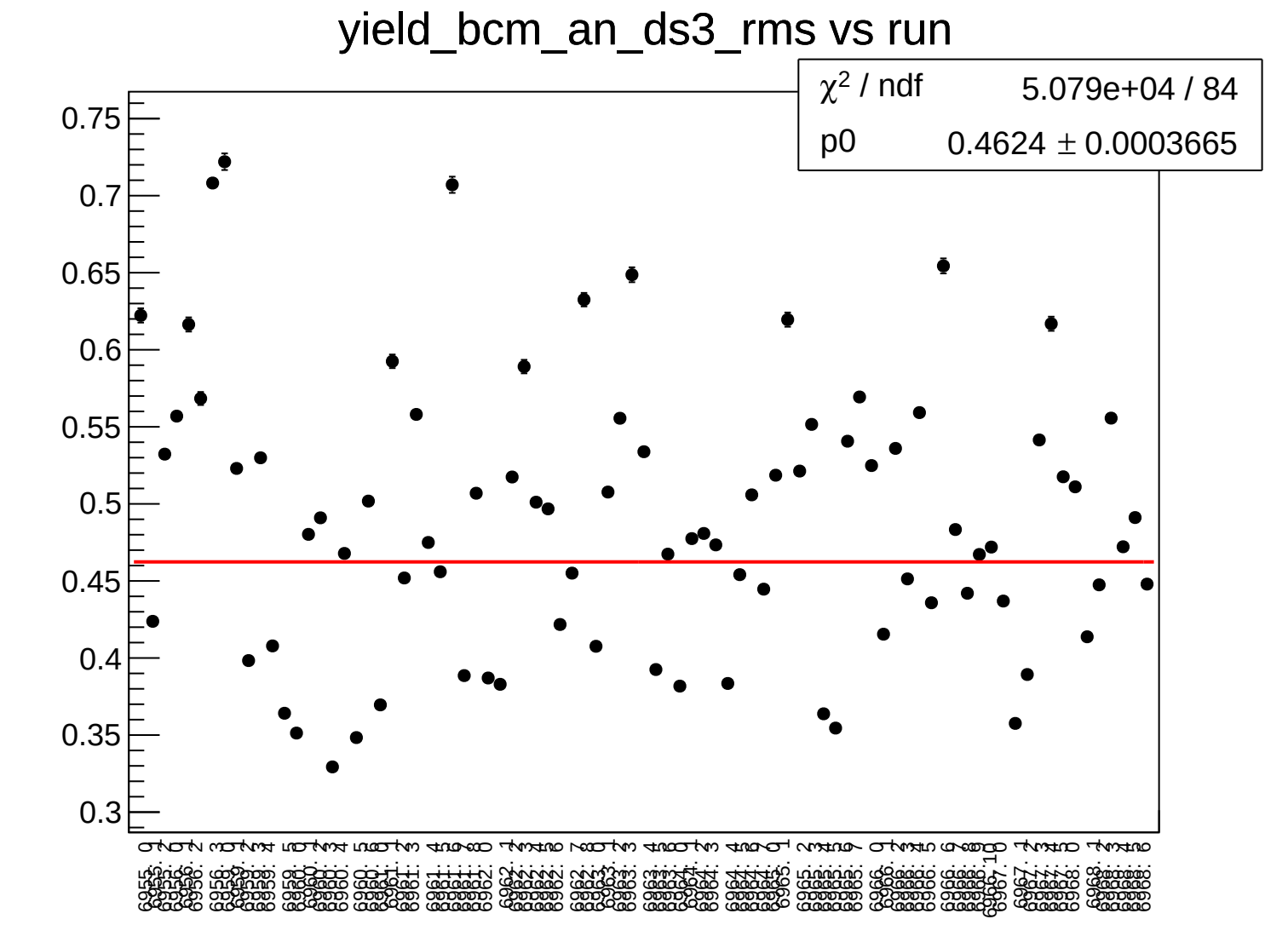

yield_bcm_an_ds_mean vs run
χ² / ndf 2.631e+05 / 84
p0 148.4 ± 0.0005159
149
148.8
148.6
148.4
148.2
148
147.8
pull
Entries 85
Mean 802.8
Std Dev 0
100
50
0
−50
−100

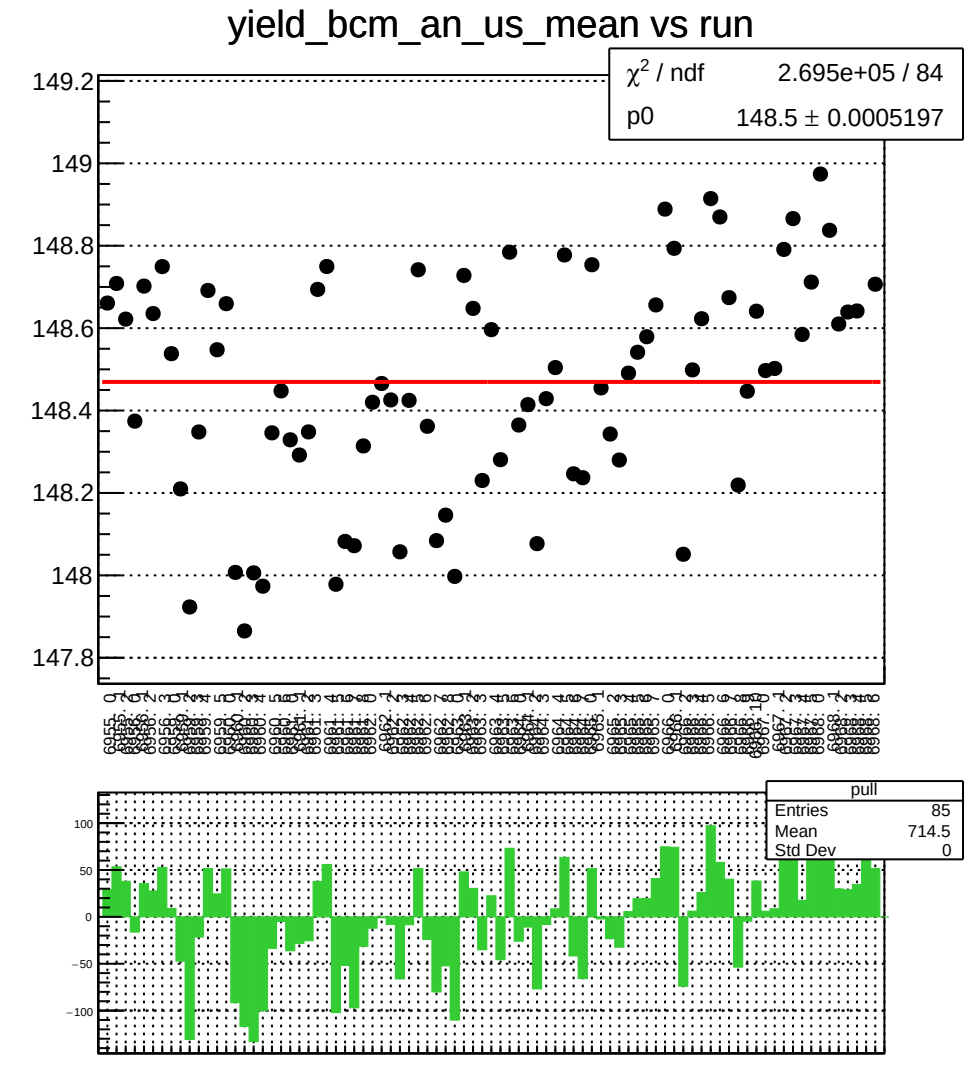

pull1D
Entries 85
Mean −0.5652
Std Dev 5.283
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

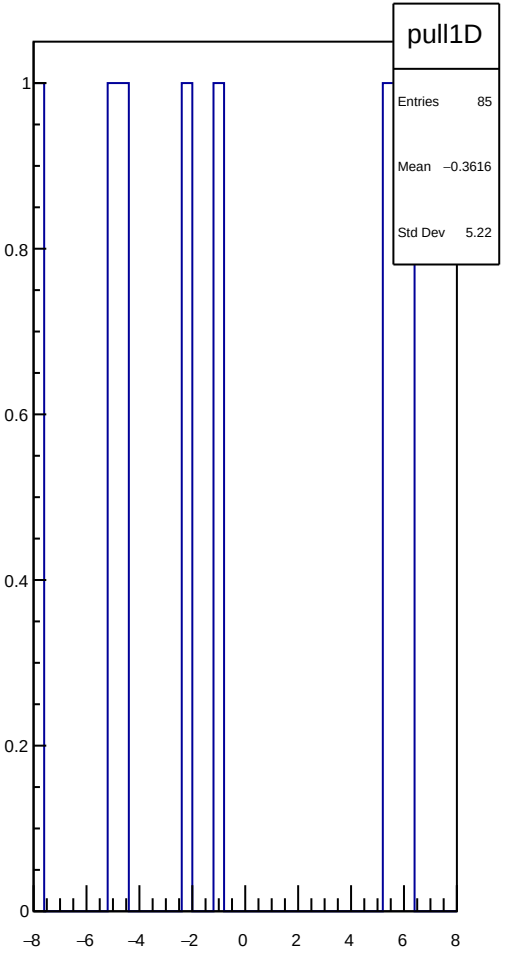

yield_bcm_an_ds_rms vs run
χ² / ndf 5.109e+04 / 84
p0 0.4602 ± 0.0003648
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

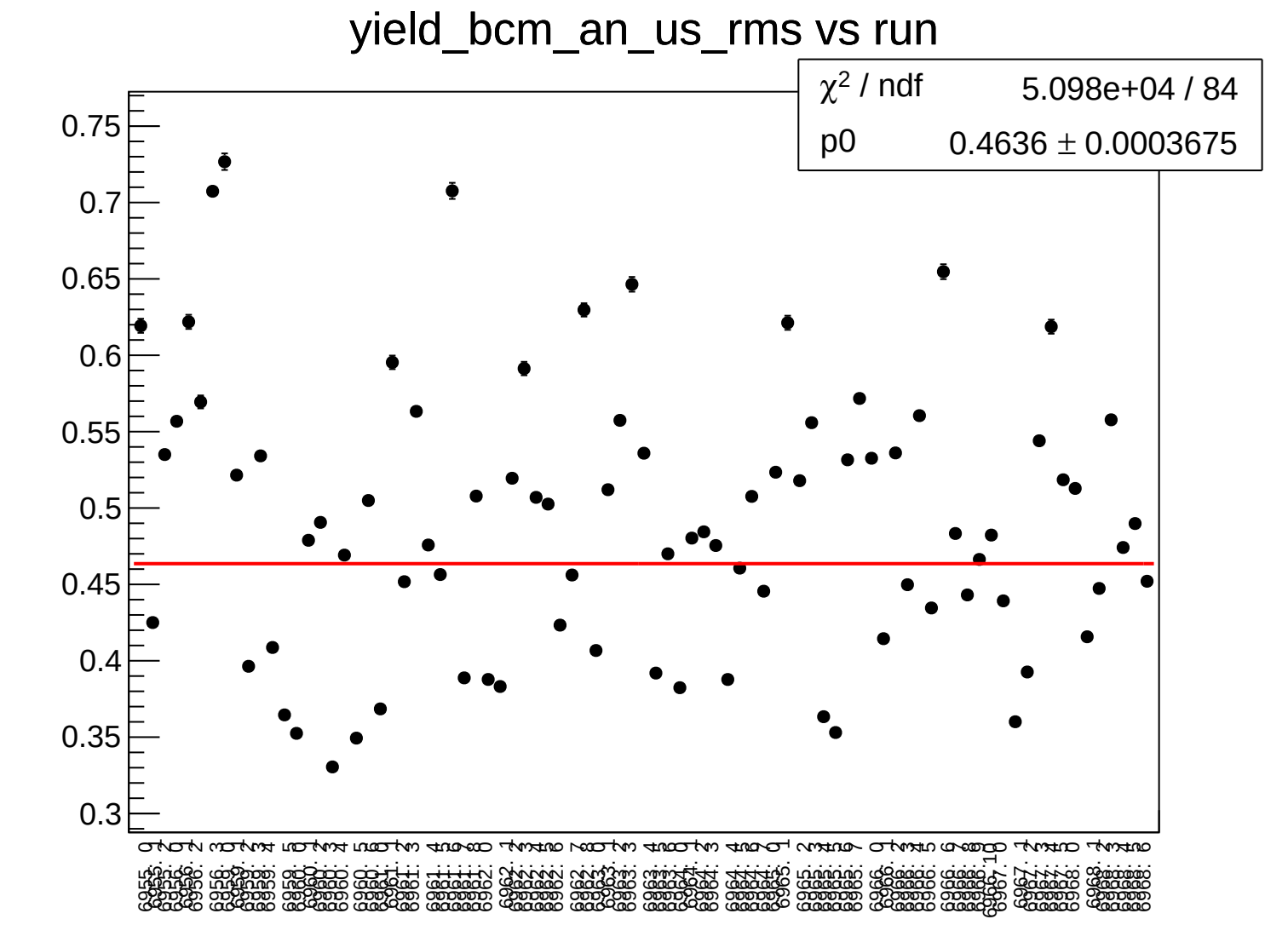

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.583e+05 / 84
p0 148.6 ± 0.0005183
149.2
149
148.8
148.6
148.4
148.2
148
pull
Entries 85
Mean 885.7
Std Dev 0
100
50
0
−50
−100

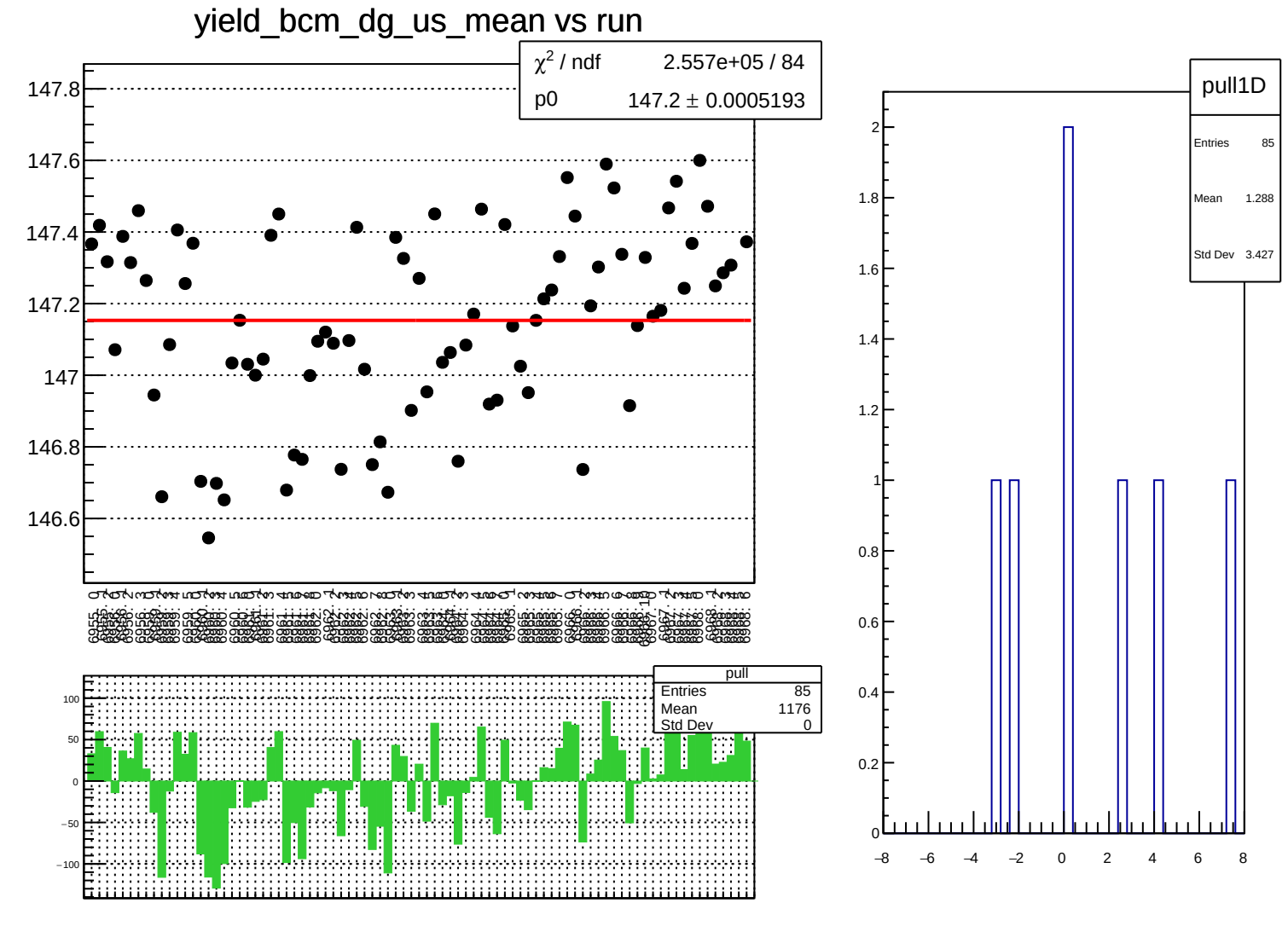

pull1D
Entries 85
Mean −0.9632
Std Dev 5.538
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

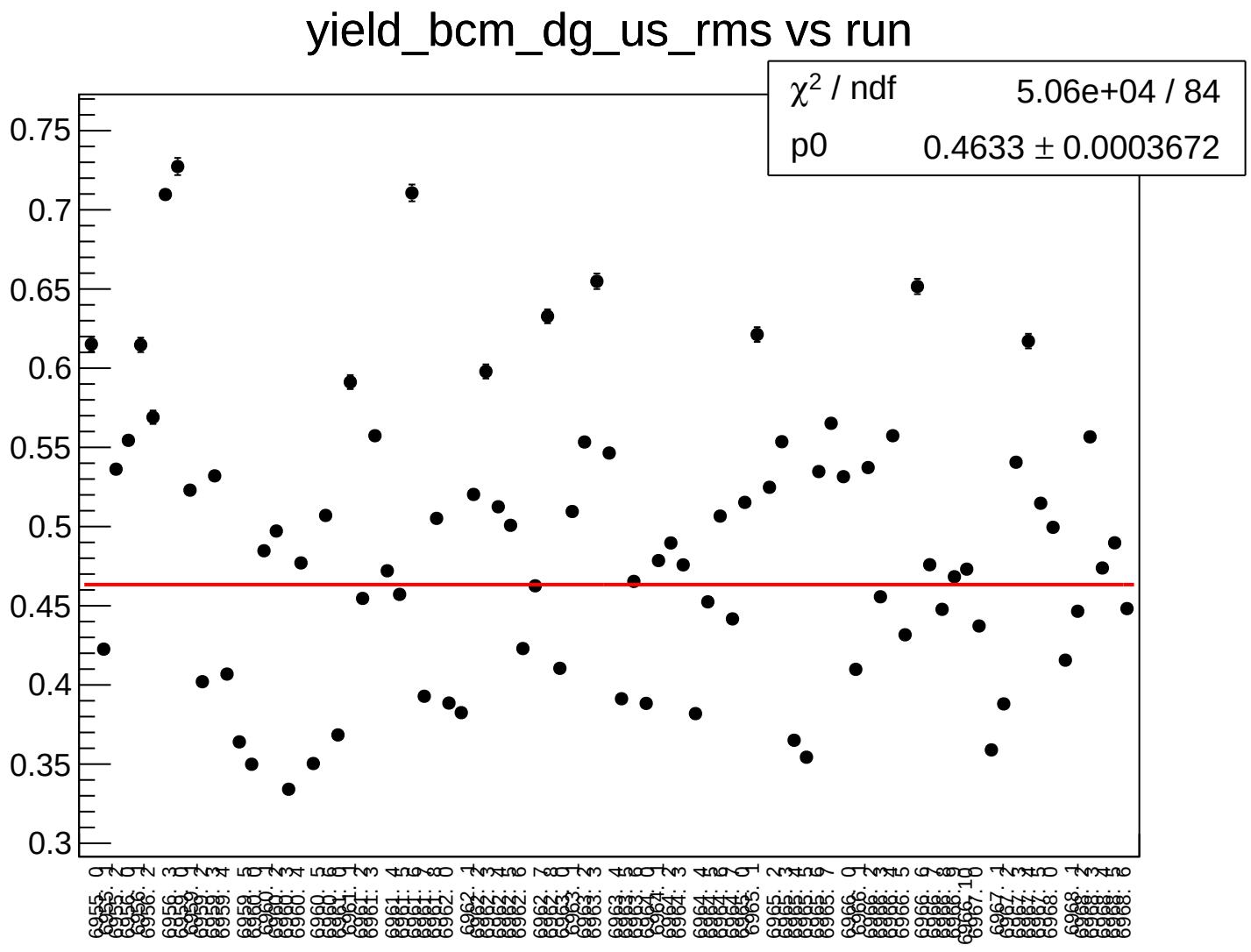

yield_bcm_an_ds3_rms vs run
χ² / ndf 5.079e+04 / 84
p0 0.4624 ± 0.0003665
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

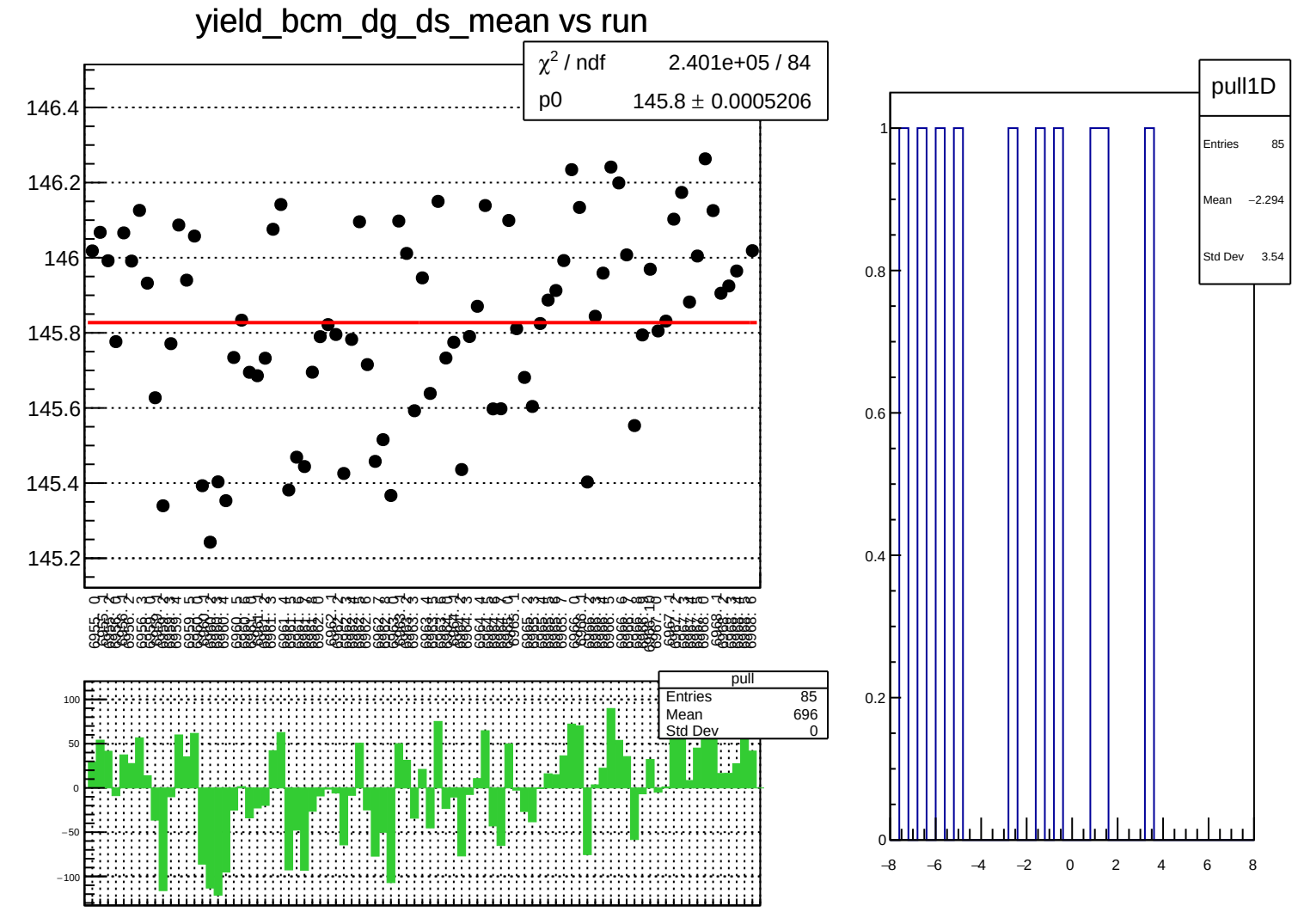

yield_bcm_an_us_mean vs run
χ² / ndf 2.695e+05 / 84
p0 148.5 ± 0.0005197
149.2
149
148.8
148.6
148.4
148.2
148
147.8
pull
Entries 85
Mean 714.5
Std Dev 0
100
50
0
−50
−100

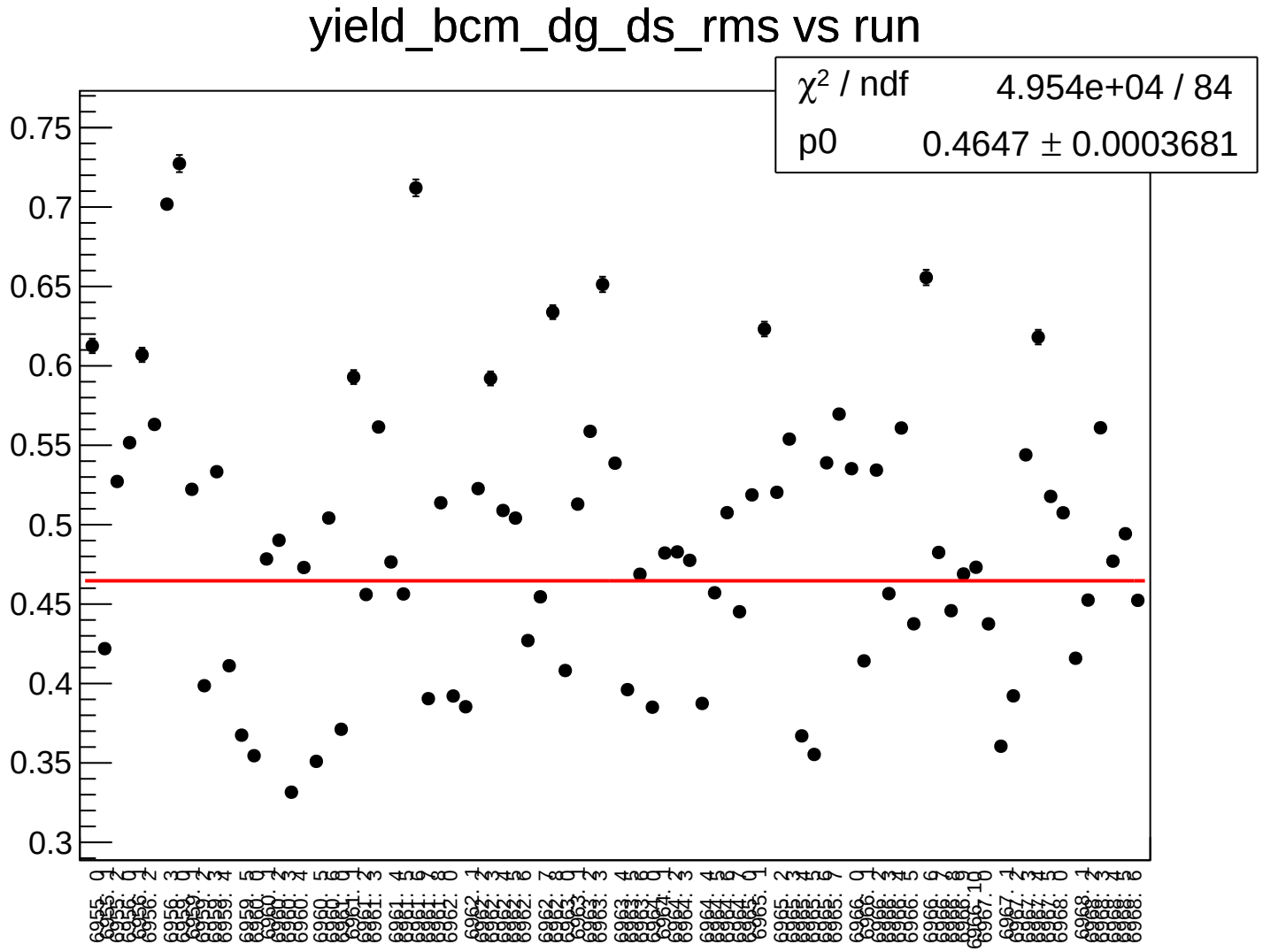

pull1D
Entries 85
Mean −0.3616
Std Dev 5.22
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

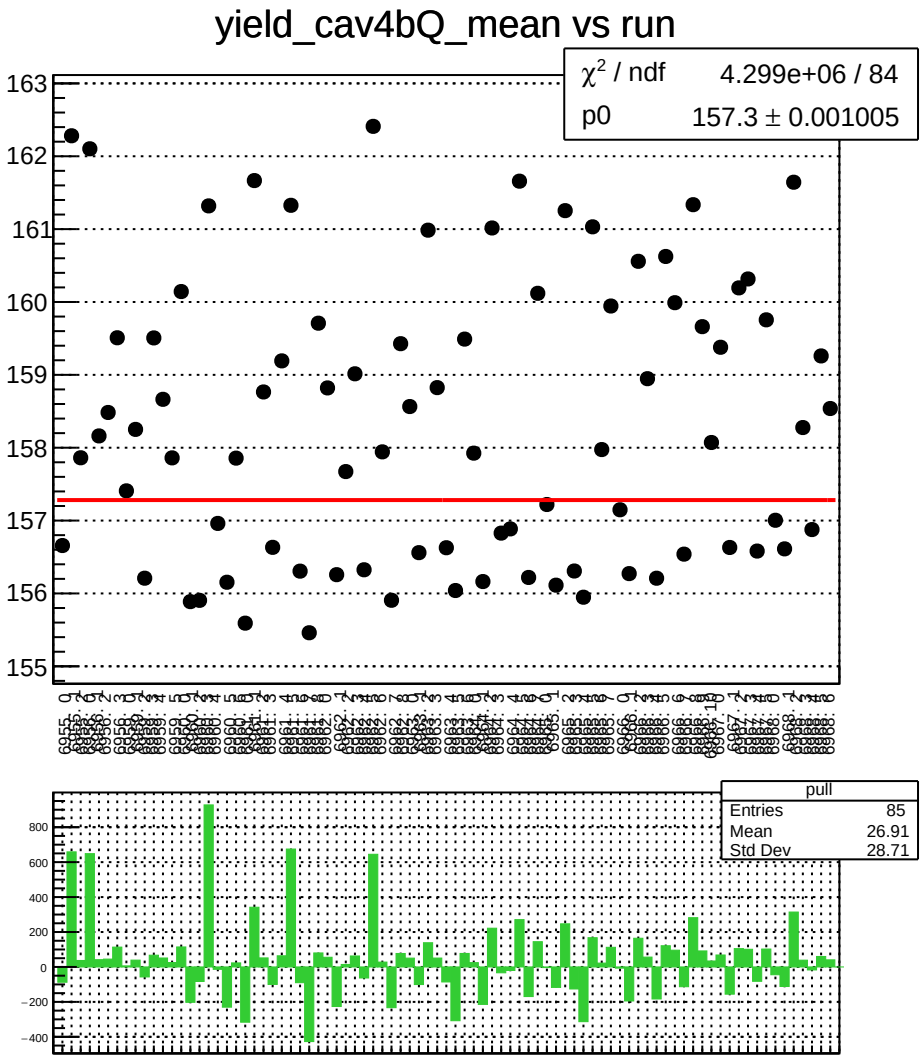

yield_bcm_an_us_rms vs run
χ² / ndf 5.098e+04 / 84
p0 0.4636 ± 0.0003675
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

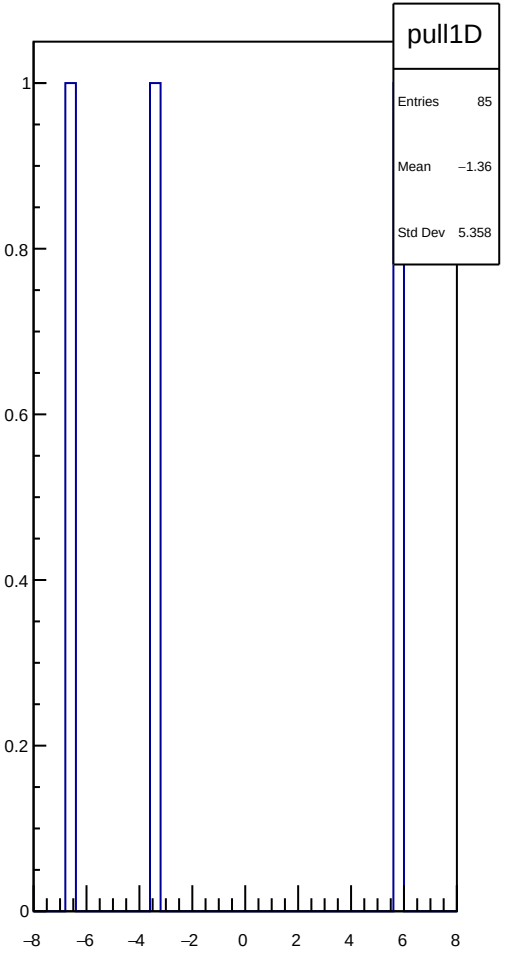

yield_bcm_dg_us_mean vs run
χ² / ndf 2.557e+05 / 84
p0 147.2 ± 0.0005193
147.8
147.6
147.4
147.2
147
146.8
146.6
pull
Entries 85
Mean 1176
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 85
Mean 1.288
Std Dev 3.427
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

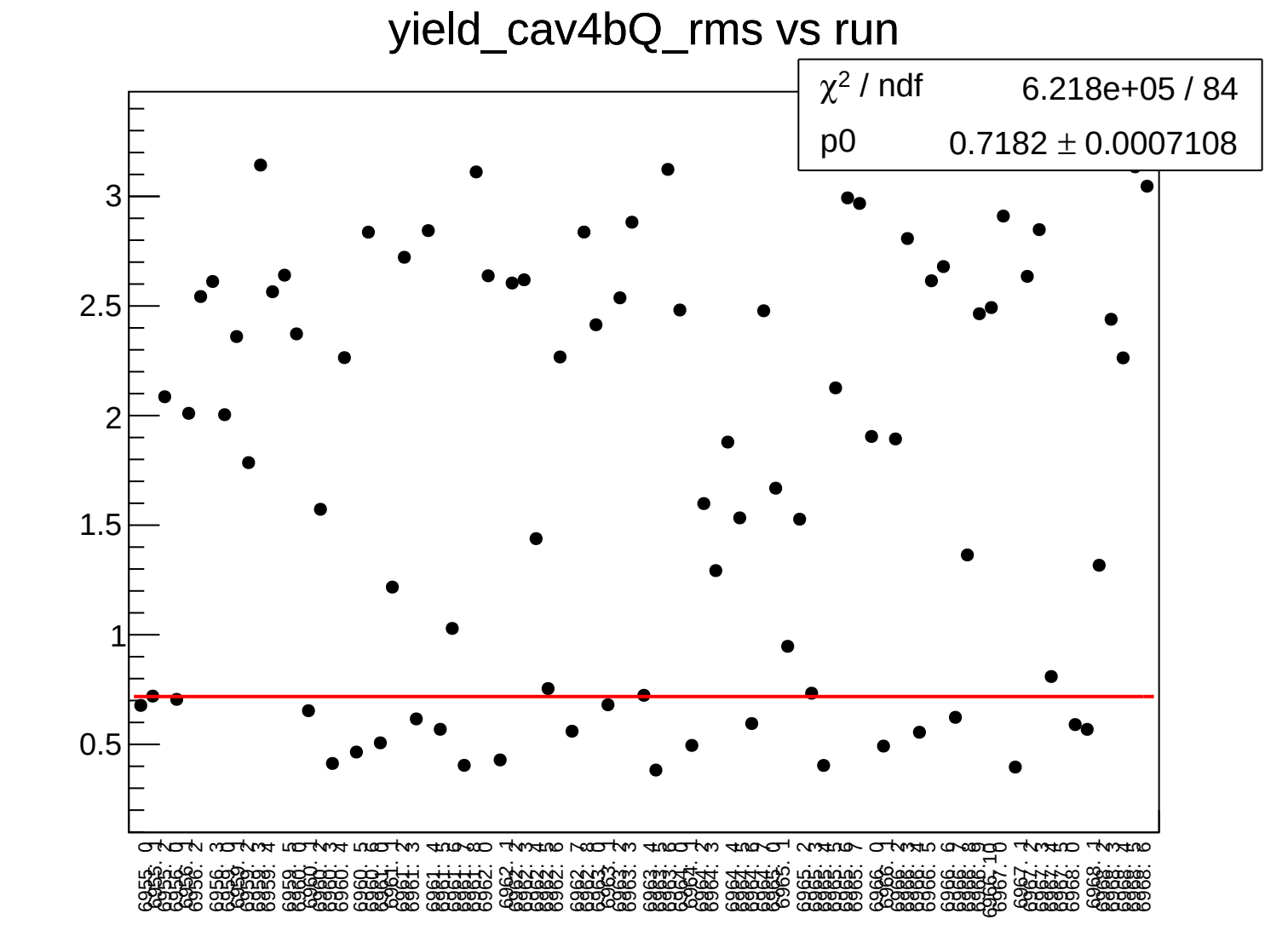

yield_bcm_dg_us_rms vs run
χ² / ndf 5.06e+04 / 84
p0 0.4633 ± 0.0003672
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

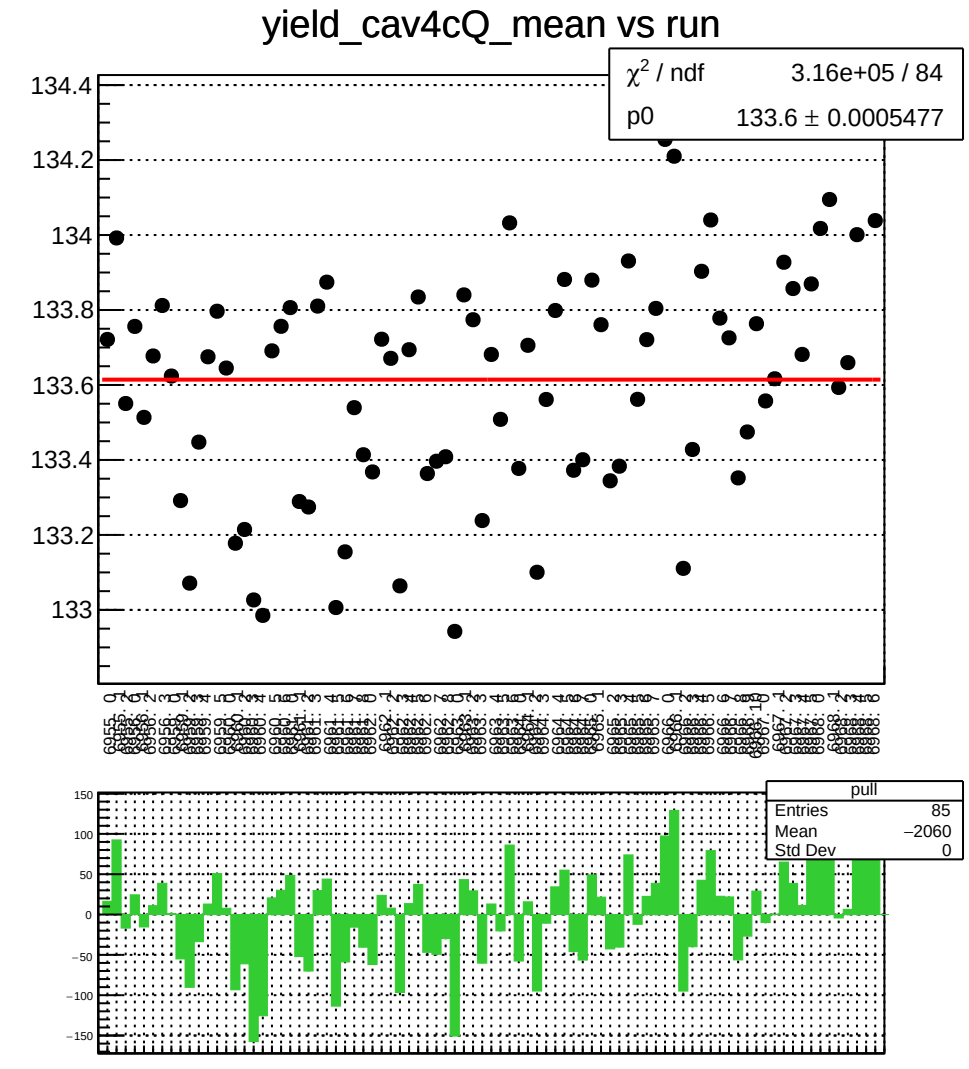

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.401e+05 / 84
p0 145.8 ± 0.0005206
146.4
146.2
146
145.8
145.6
145.4
145.2
pull
Entries 85
Mean 696
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 85
Mean −2.294
Std Dev 3.54
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

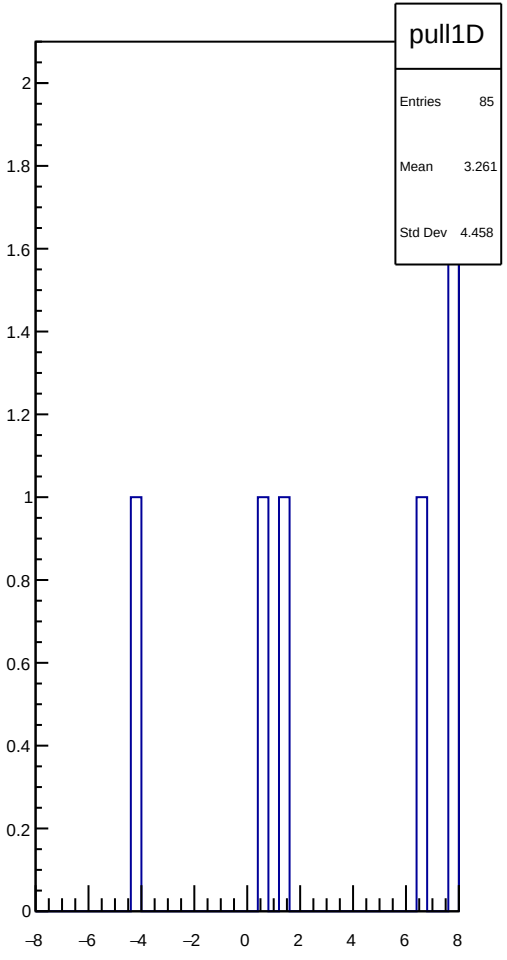

yield_bcm_dg_ds_rms vs run
χ² / ndf 4.954e+04 / 84
p0 0.4647 ± 0.0003681
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

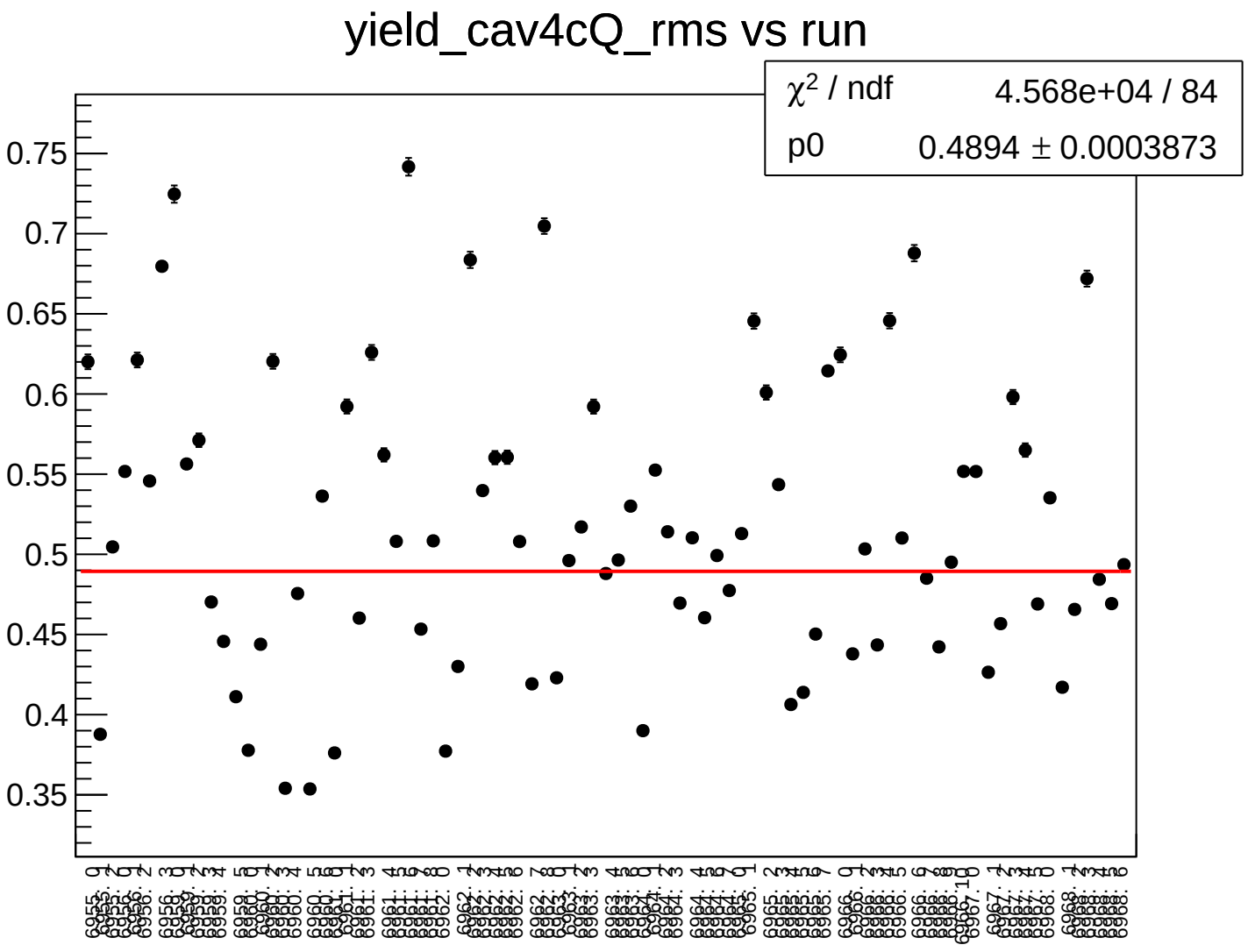

yield_cav4bQ_mean vs run
χ² / ndf 4.299e+06 / 84
p0 157.3 ± 0.001005
pull
Entries 85
Mean 26.91
Std Dev 28.71

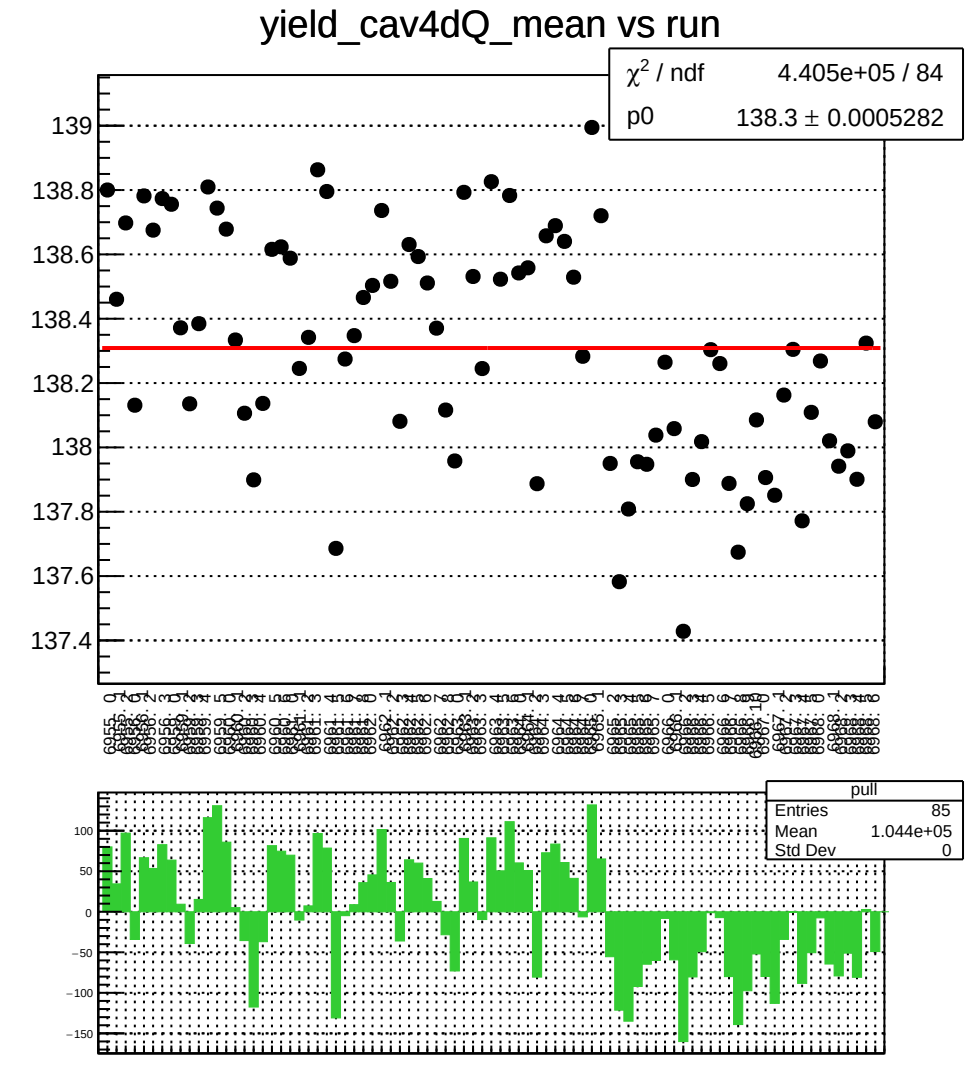

pull1D
Entries 85
Mean −1.36
Std Dev 5.358

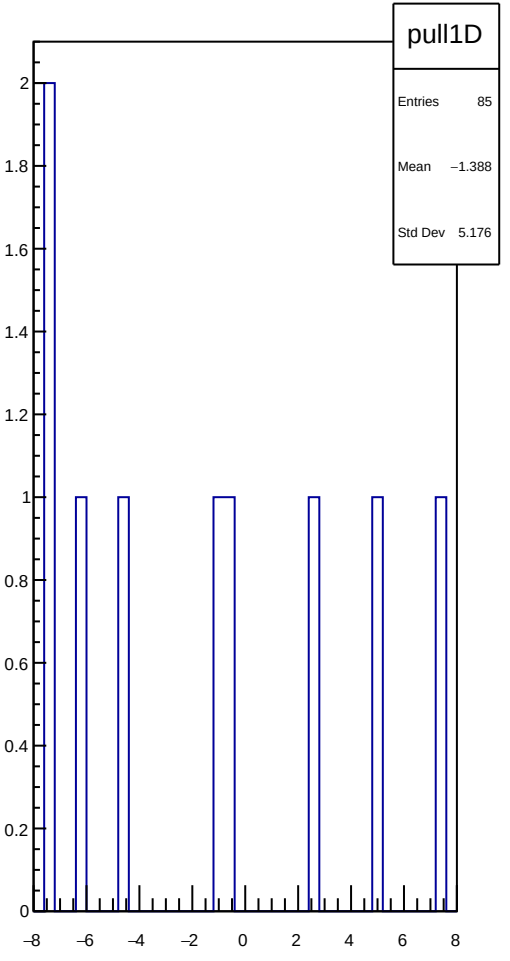

yield_cav4bQ_rms vs run
χ² / ndf 6.218e+05 / 84
p0 0.7182 ± 0.0007108
3
2.5
2
1.5
1
0.5

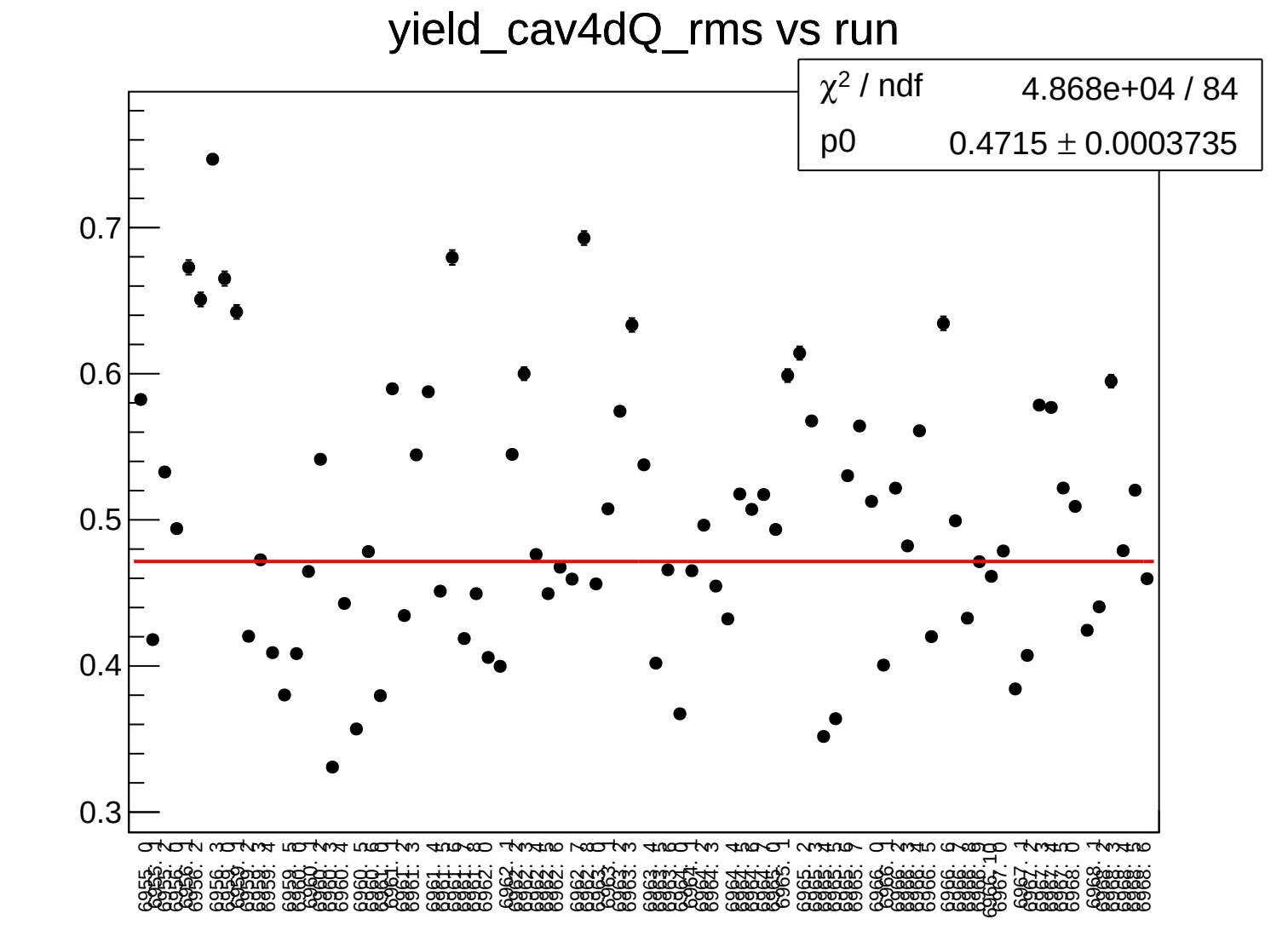

yield_cav4cQ_mean vs run
χ² / ndf 3.16e+05 / 84
p0 133.6 ± 0.0005477
134.4
134.2
134
133.8
133.6
133.4
133.2
133
pull
Entries 85
Mean −2060
Std Dev 0
150
100
50
0
−50
−100
−150

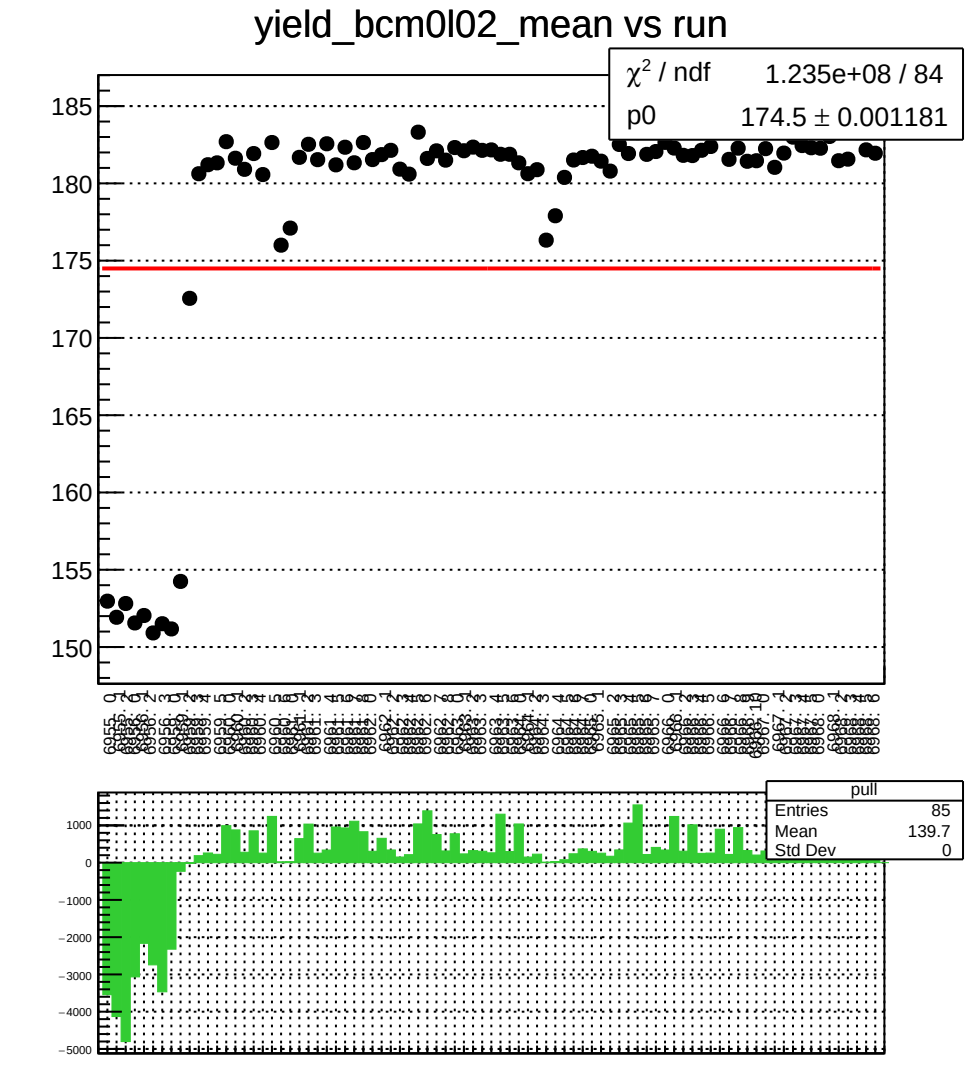

pull1D
Entries 85
Mean 3.261
Std Dev 4.458
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

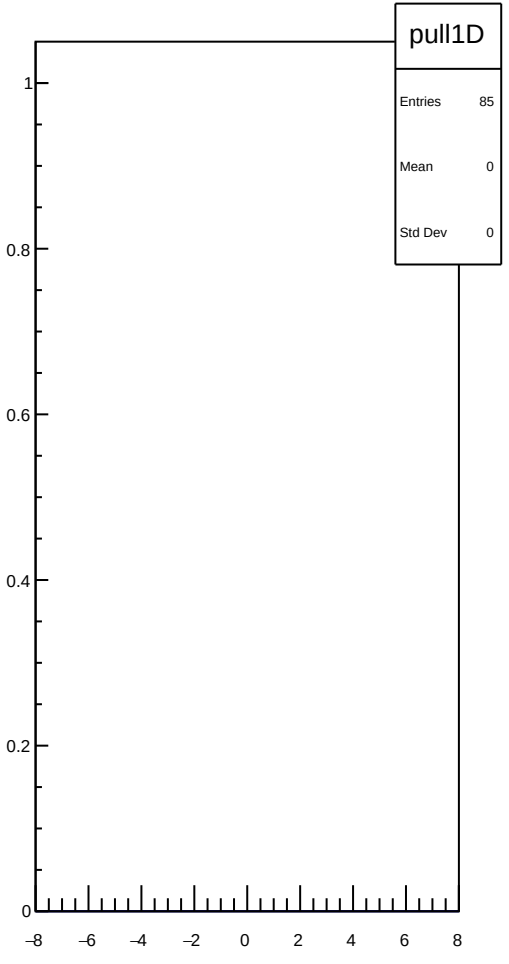

yield_cav4cQ_rms vs run
χ² / ndf 4.568e+04 / 84
p0 0.4894 ± 0.0003873
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

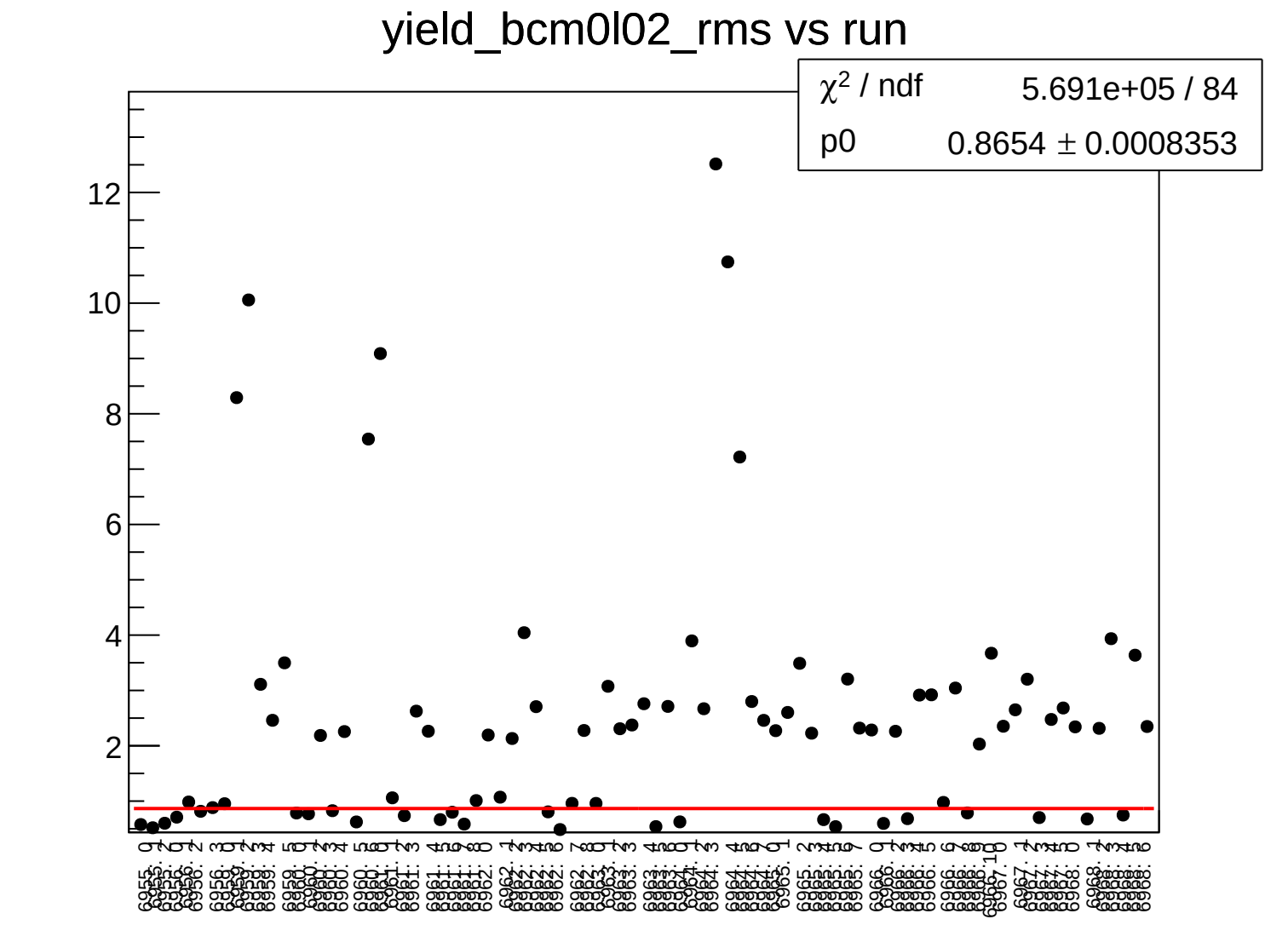

yield_cav4dQ_mean vs run
χ² / ndf 4.405e+05 / 84
p0 138.3 ± 0.0005282
pull
Entries 85
Mean 1.044e+05
Std Dev 0

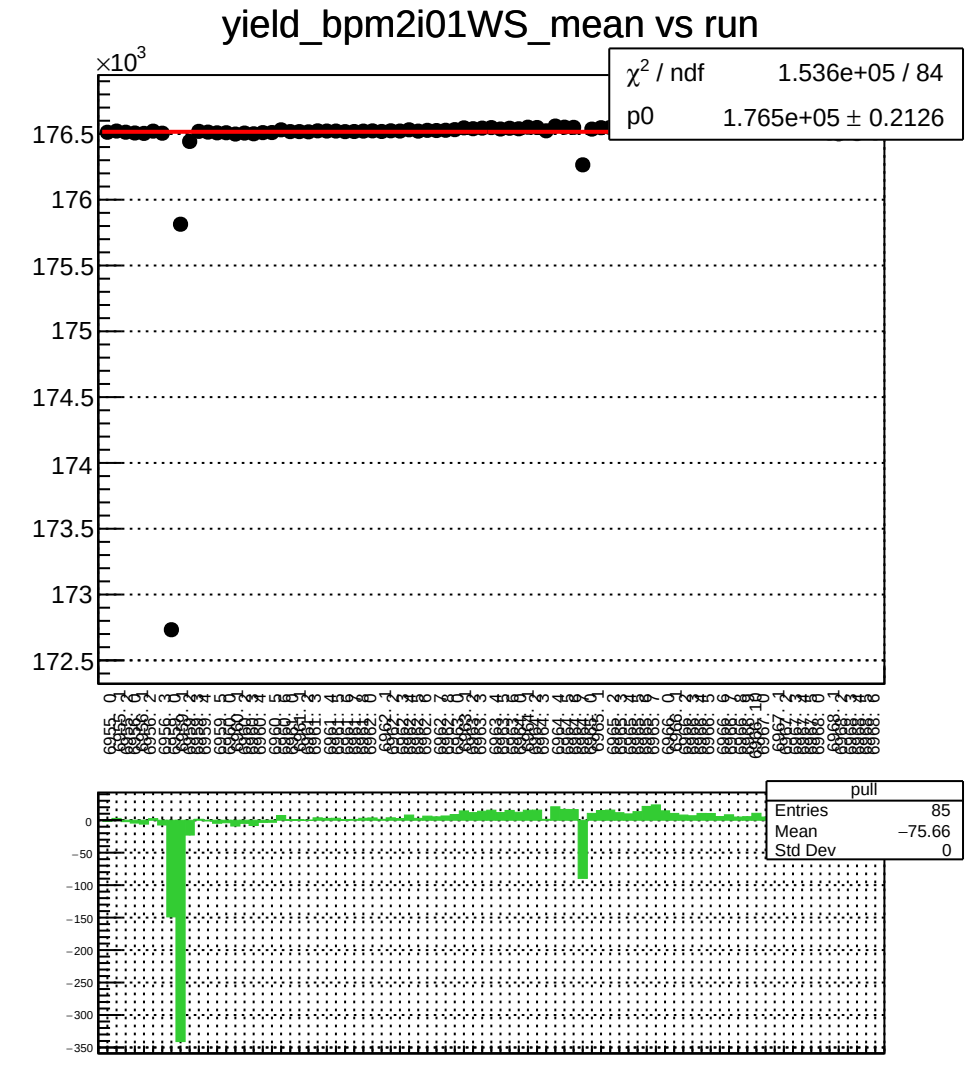

pull1D
Entries 85
Mean −1.388
Std Dev 5.176

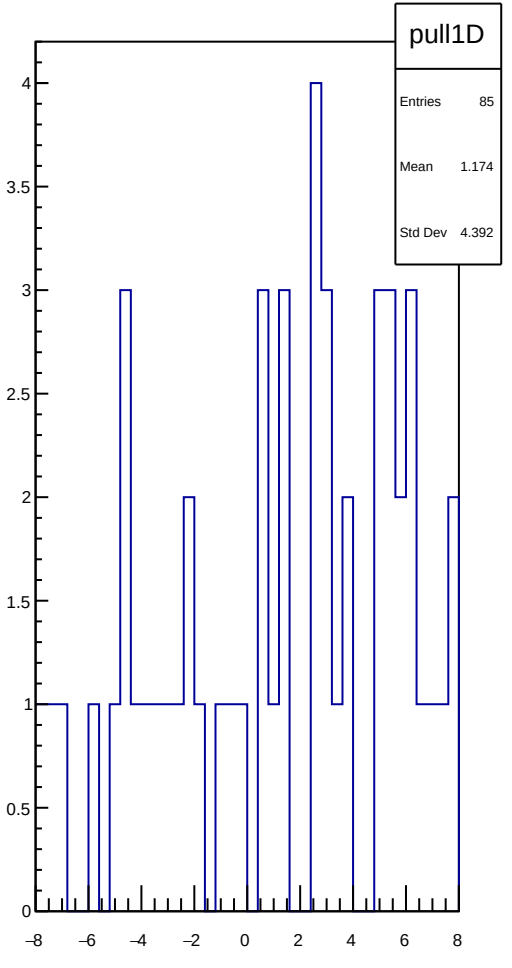

yield_cav4dQ_rms vs run
χ² / ndf 4.868e+04 / 84
p0 0.4715 ± 0.0003735
0.7
0.6
0.5
0.4
0.3

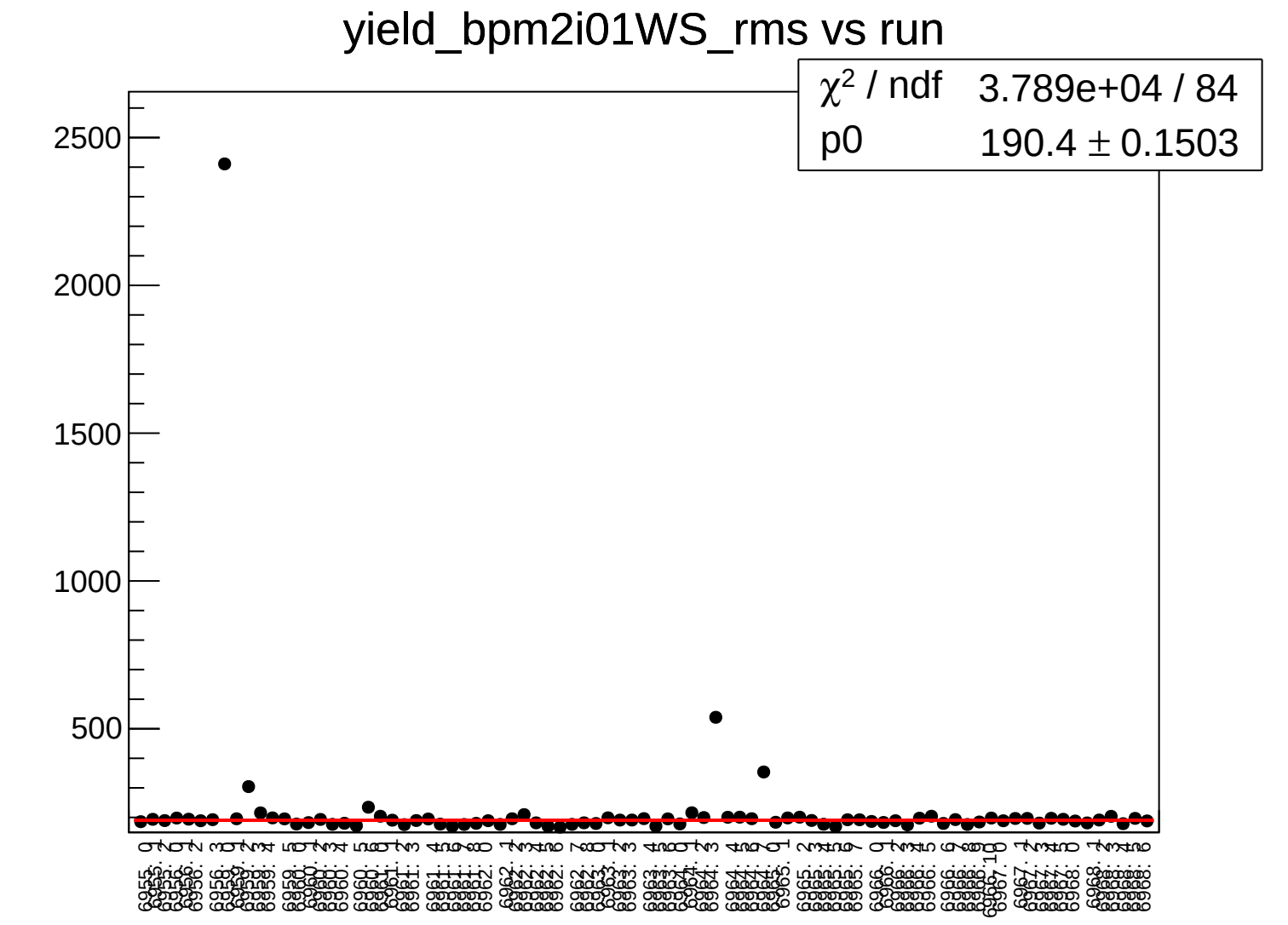

yield_bcm0l02_mean vs run
χ² / ndf 1.235e+08 / 84
p0 174.5 ± 0.001181
185
180
175
170
165
160
155
150
pull
Entries 85
Mean 139.7
Std Dev 0
1000
0
−1000
−2000
−3000
−4000
−5000

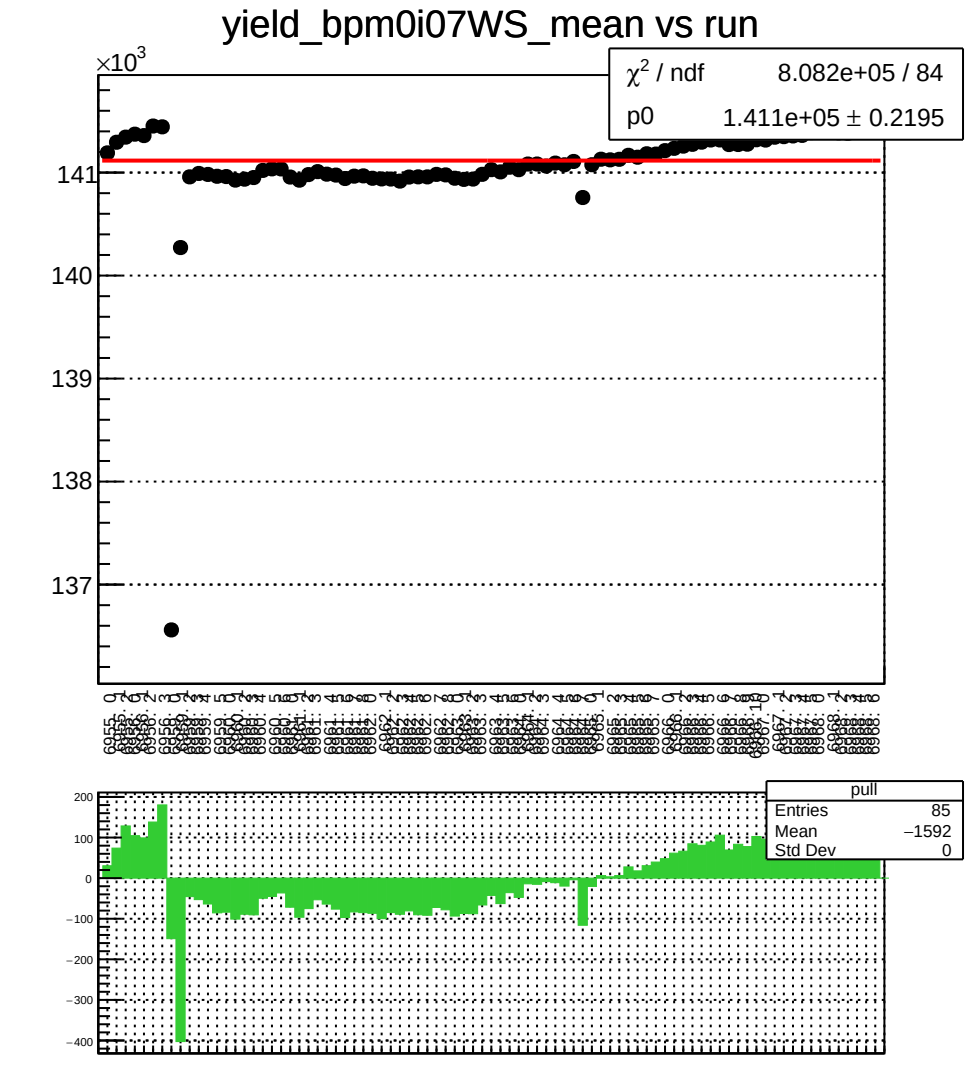

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

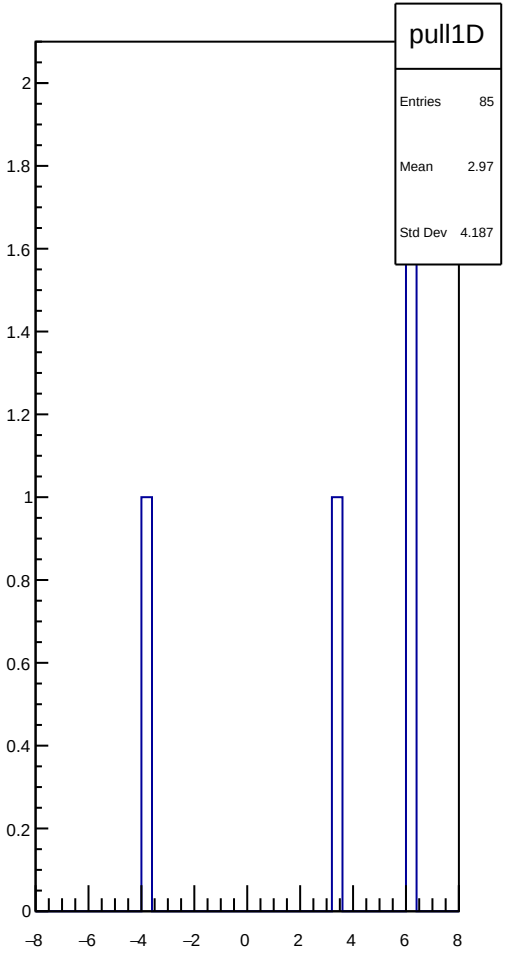

yield_bcm0l02_rms vs run
χ² / ndf 5.691e+05 / 84
p0 0.8654 ± 0.0008353
12
10
8
6
4
2

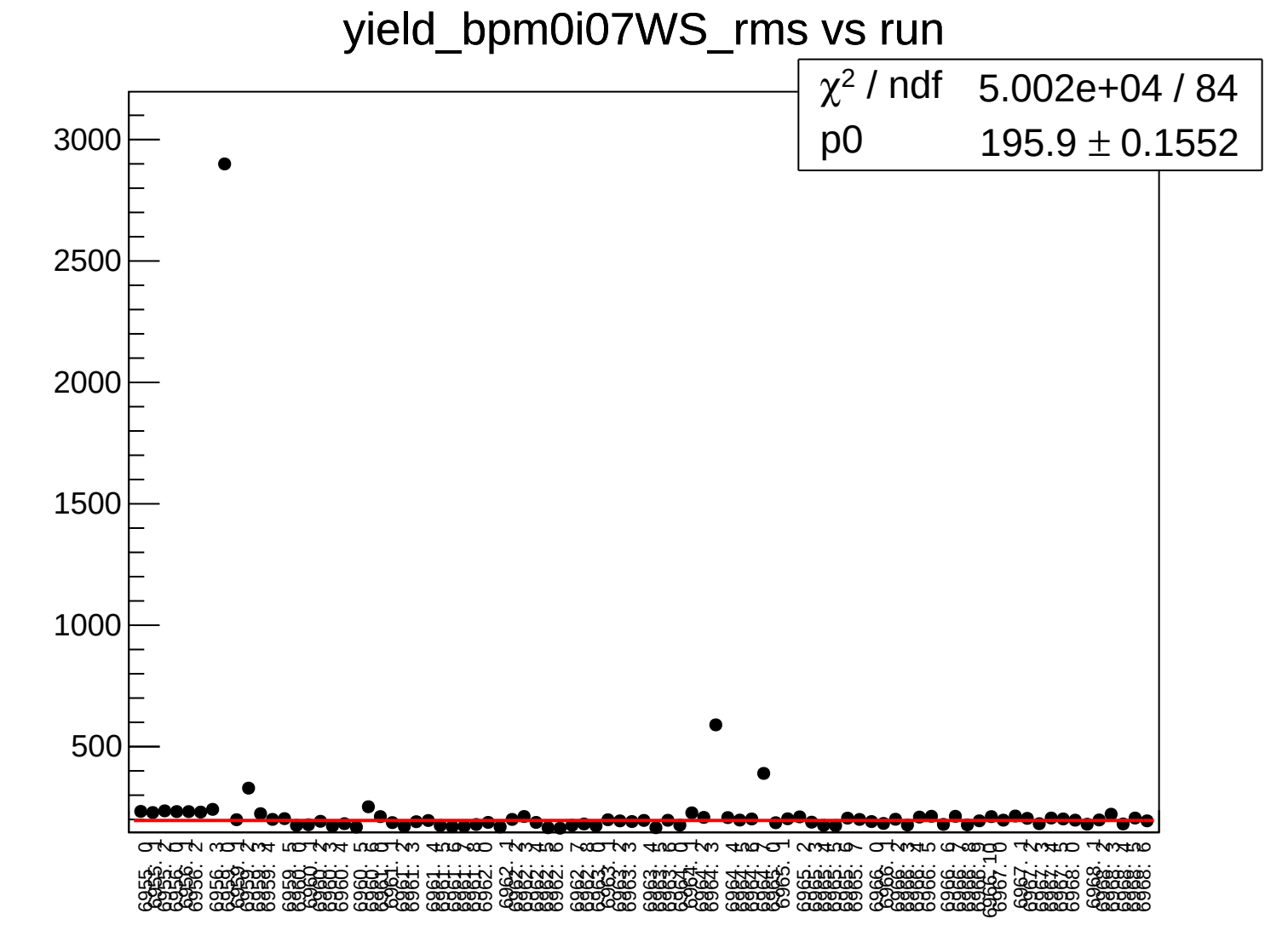

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.536e+05 / 84
p0 1.765e+05 ± 0.2126
176.5
176
175.5
175
174.5
174
173.5
173
172.5
pull
Entries 85
Mean −75.66
Std Dev 0
0
−50
−100
−150
−200
−250
−300
−350

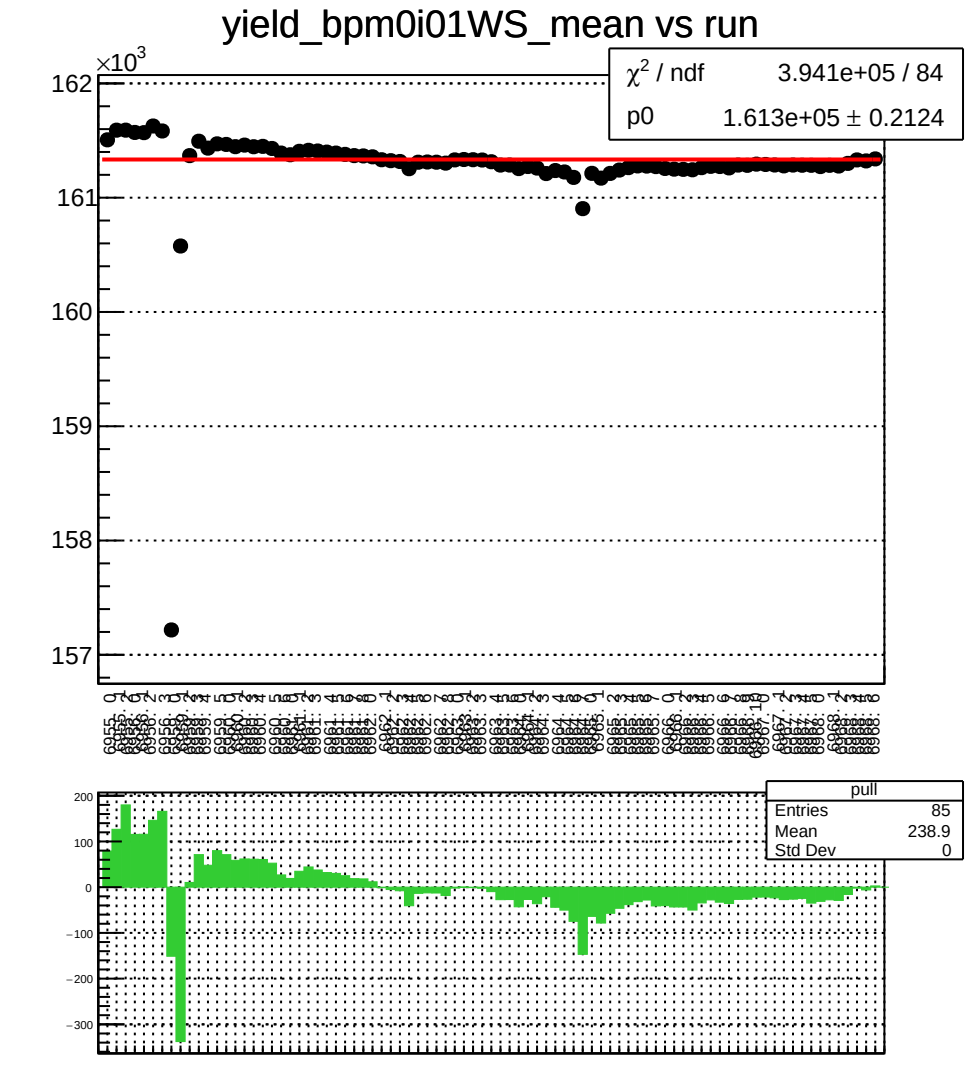

pull1D
Entries 85
Mean 1.174
Std Dev 4.392
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

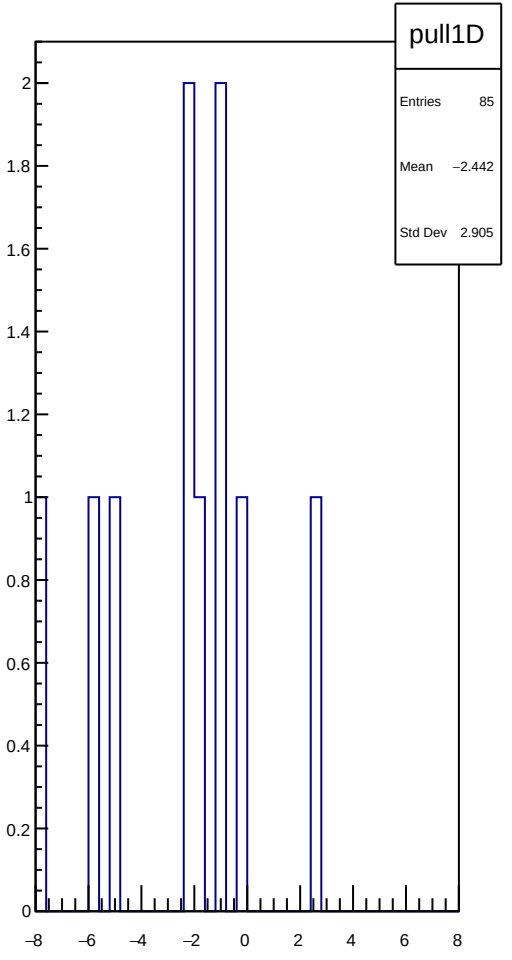

yield_bpm2i01WS_rms vs run
χ² / ndf 3.789e+04 / 84
p0 190.4 ± 0.1503
2500
2000
1500
1000
500

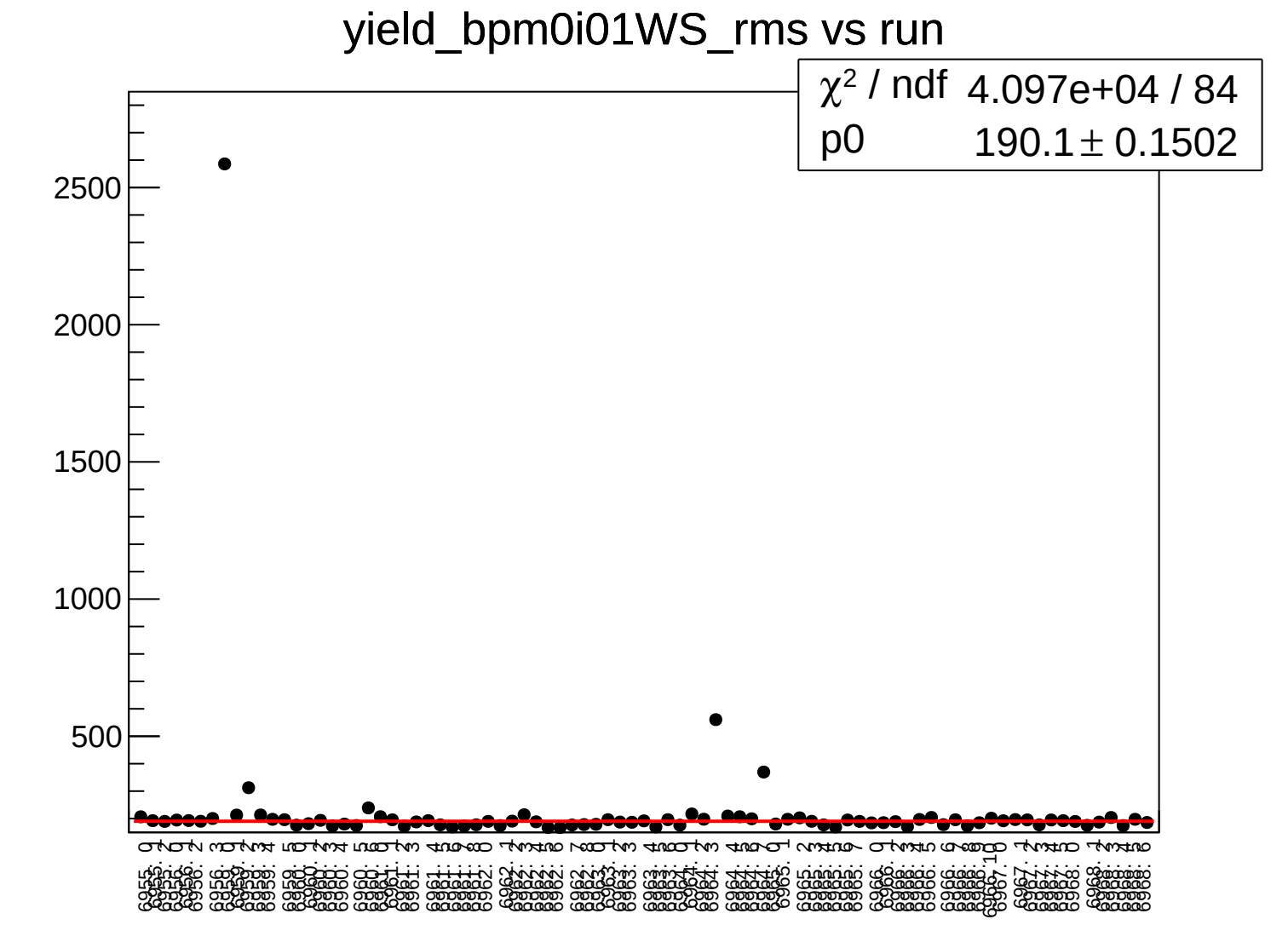

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 8.082e+05 / 84
p0 1.411e+05 ± 0.2195
141
140
139
138
137
pull
Entries 85
Mean −1592
Std Dev 0
200
100
0
−100
−200
−300
−400

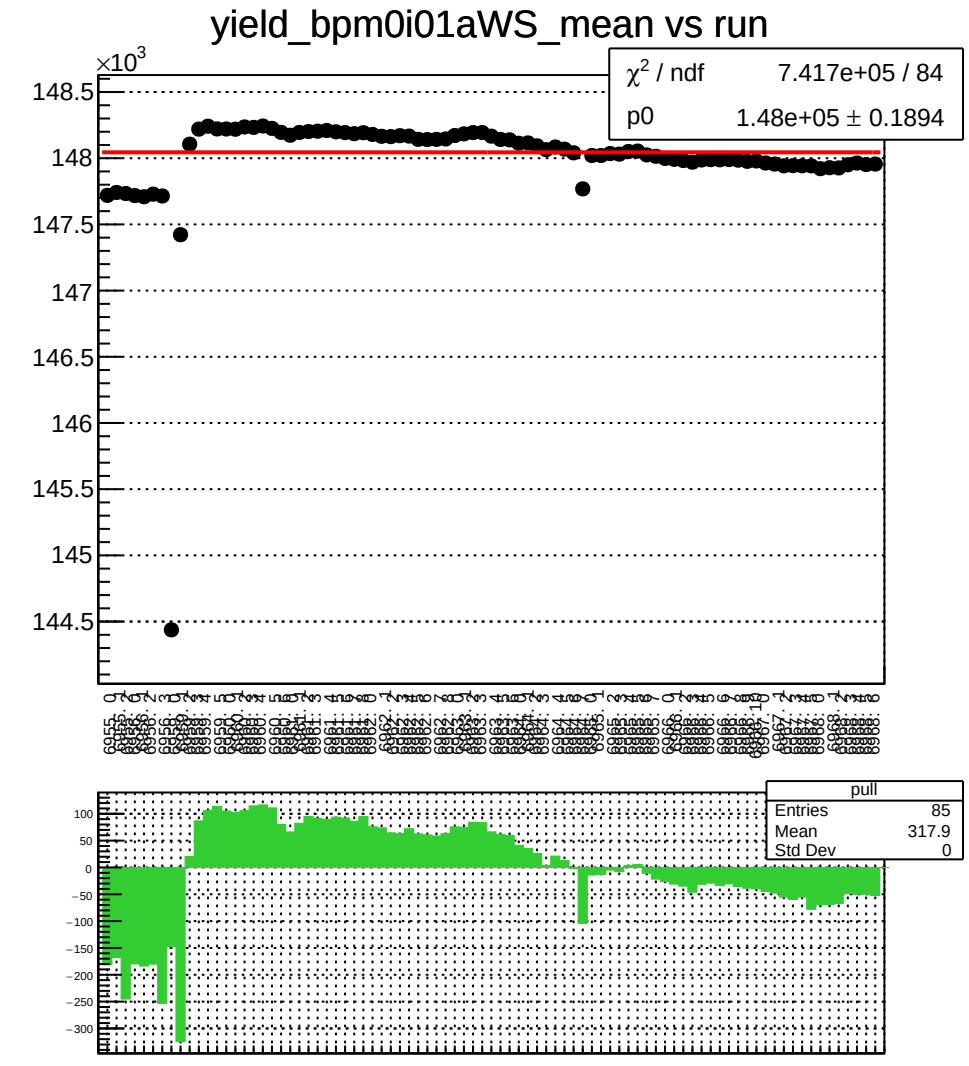

pull1D
Entries 85
Mean 2.97
Std Dev 4.187
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

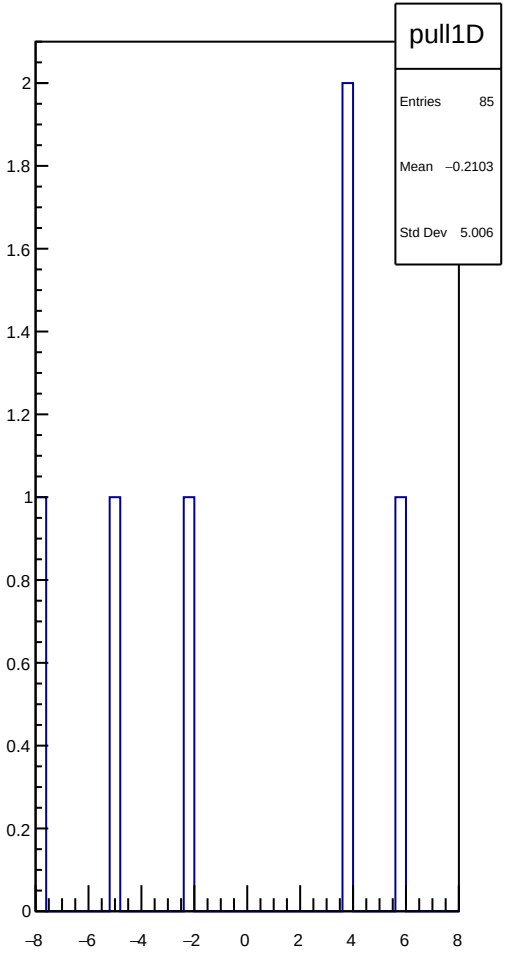

yield_bpm0i07WS_rms vs run
χ² / ndf 5.002e+04 / 84
p0 195.9 ± 0.1552
3000
2500
2000
1500
1000
500

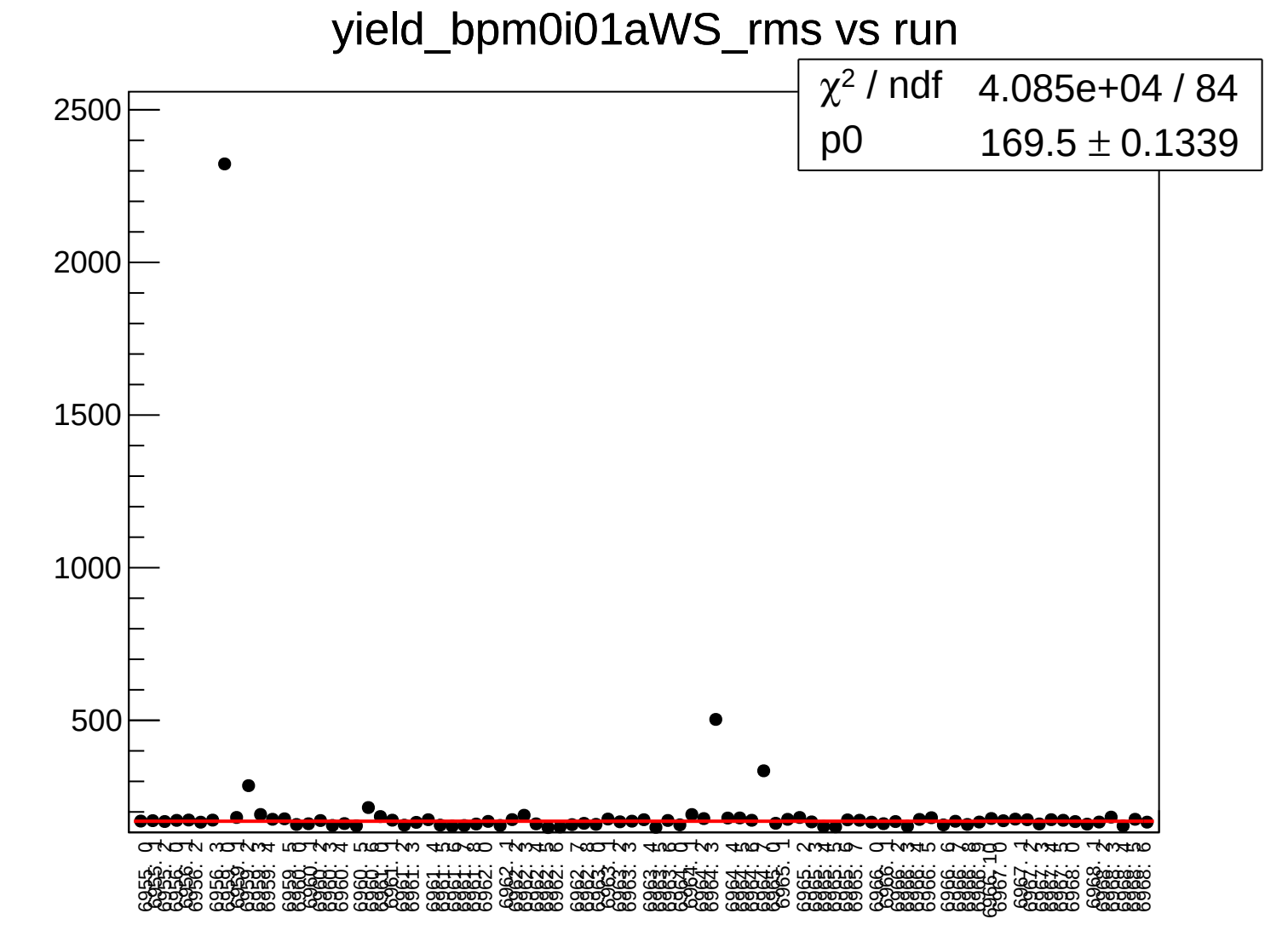

yield_bpm0i01WS_mean vs run
χ² / ndf 3.941e+05 / 84
p0 1.613e+05 ± 0.2124
×10³
162
161
160
159
158
157
pull
Entries 85
Mean 238.9
Std Dev 0
200
100
0
−100
−200
−300

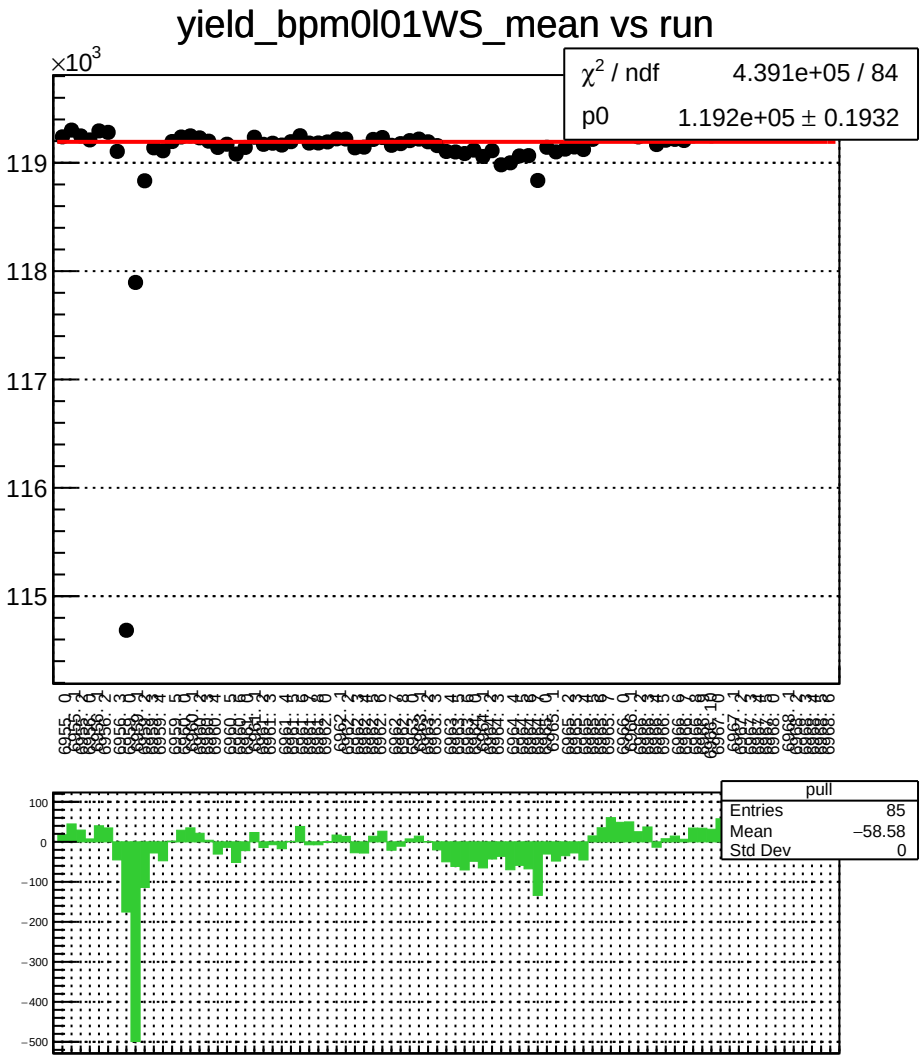

pull1D
Entries 85
Mean −2.442
Std Dev 2.905
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

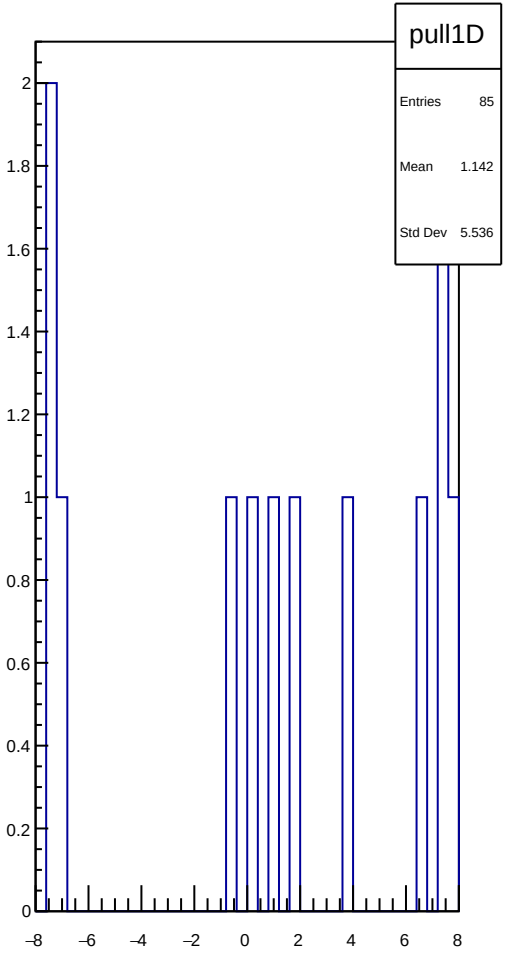

yield_bpm0i01WS_rms vs run
χ² / ndf 4.097e+04 / 84
p0 190.1 ± 0.1502
2500
2000
1500
1000
500

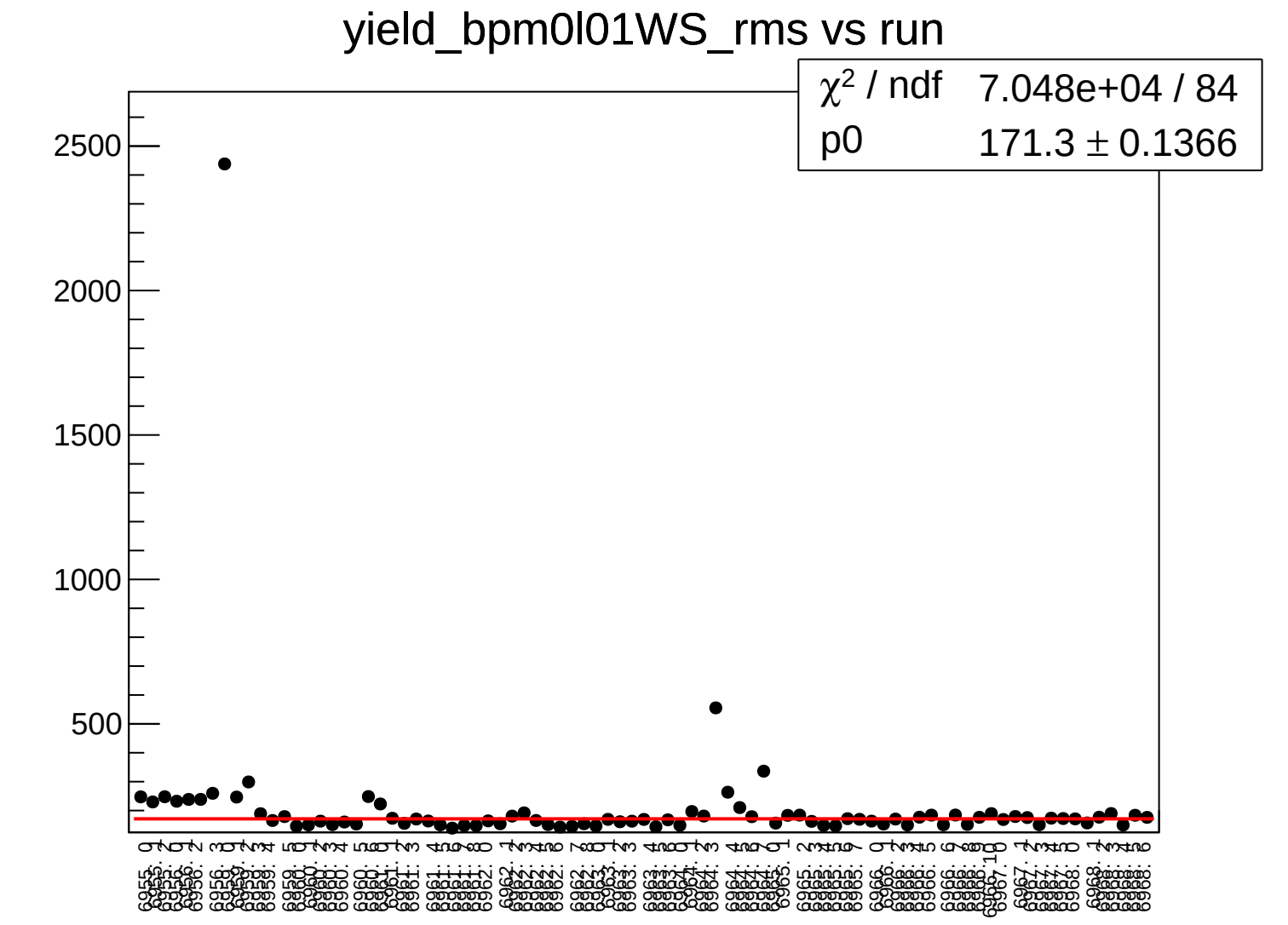

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 7.417e+05 / 84
p0 1.48e+05 ± 0.1894
148.5
148
147.5
147
146.5
146
145.5
145
144.5
pull
Entries 85
Mean 317.9
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300

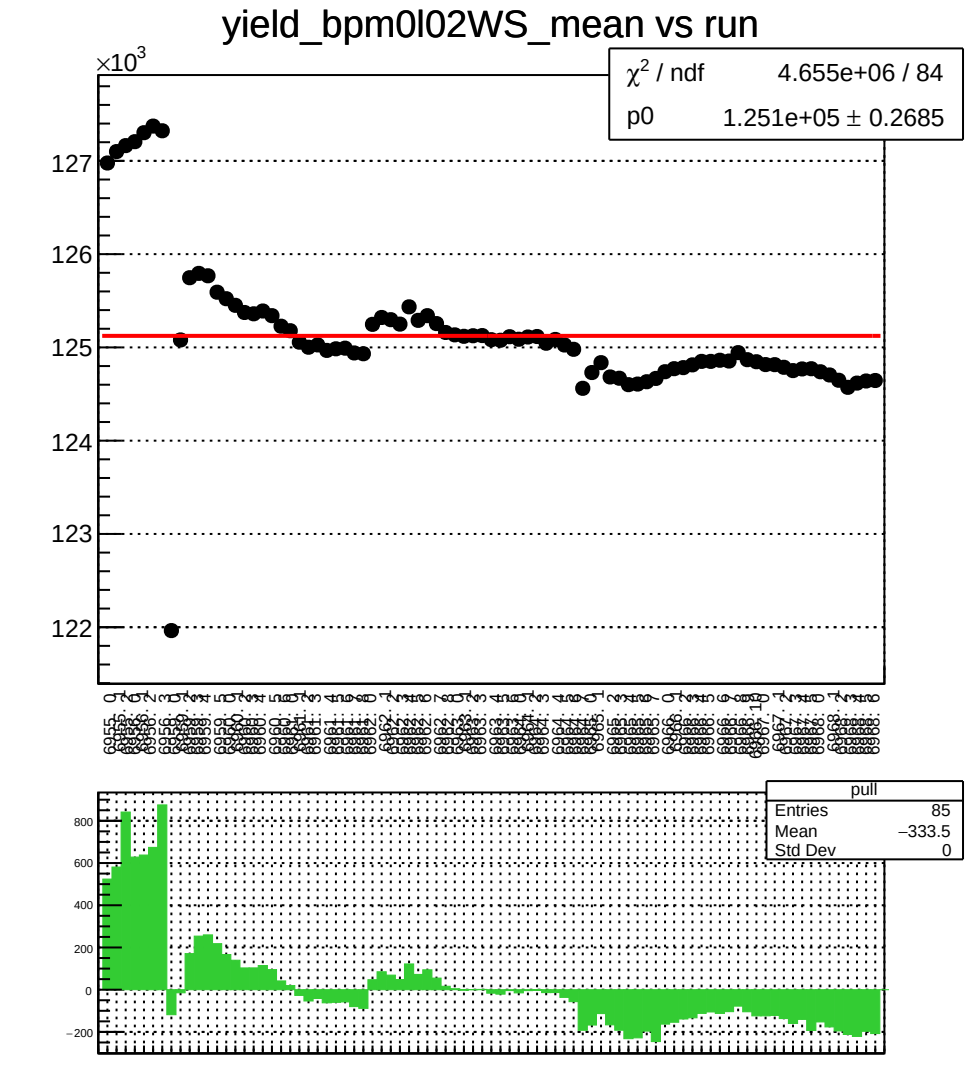

pull1D
Entries 85
Mean −0.2103
Std Dev 5.006
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

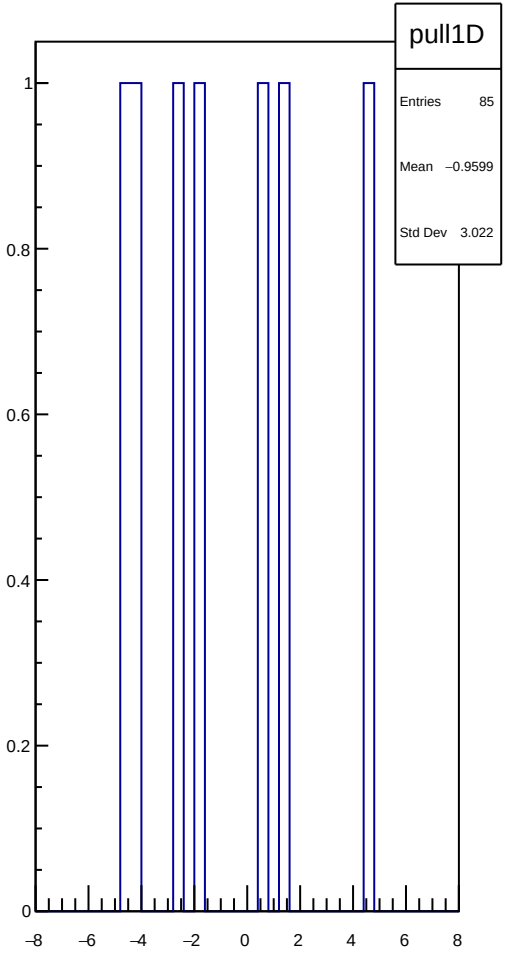

yield_bpm0i01aWS_rms vs run
χ² / ndf 4.085e+04 / 84
p0 169.5 ± 0.1339
2500
2000
1500
1000
500

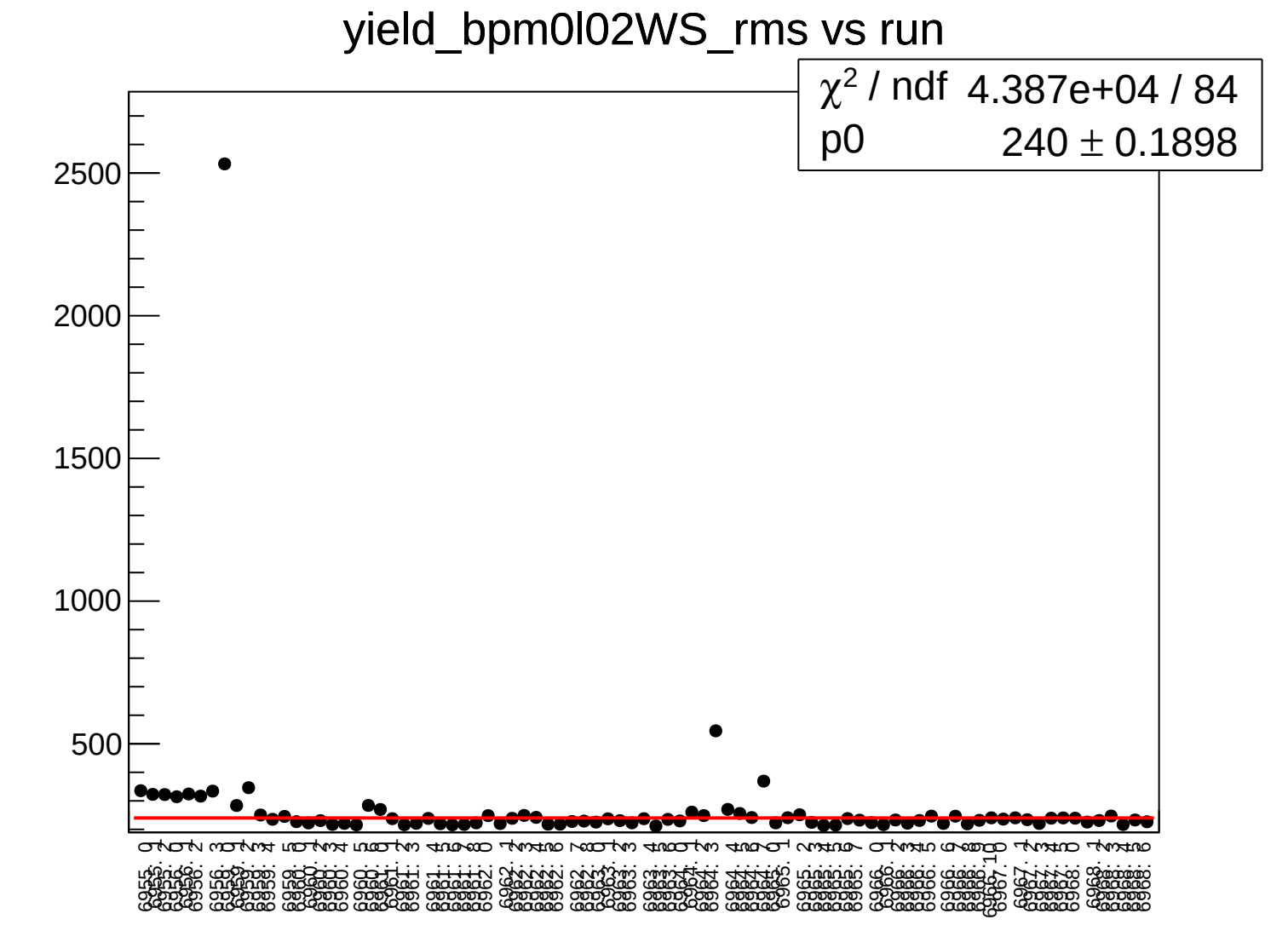

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.391e+05 / 84
p0 1.192e+05 ± 0.1932
119
118
117
116
115
pull
Entries 85
Mean −58.58
Std Dev 0
100
0
−100
−200
−300
−400
−500

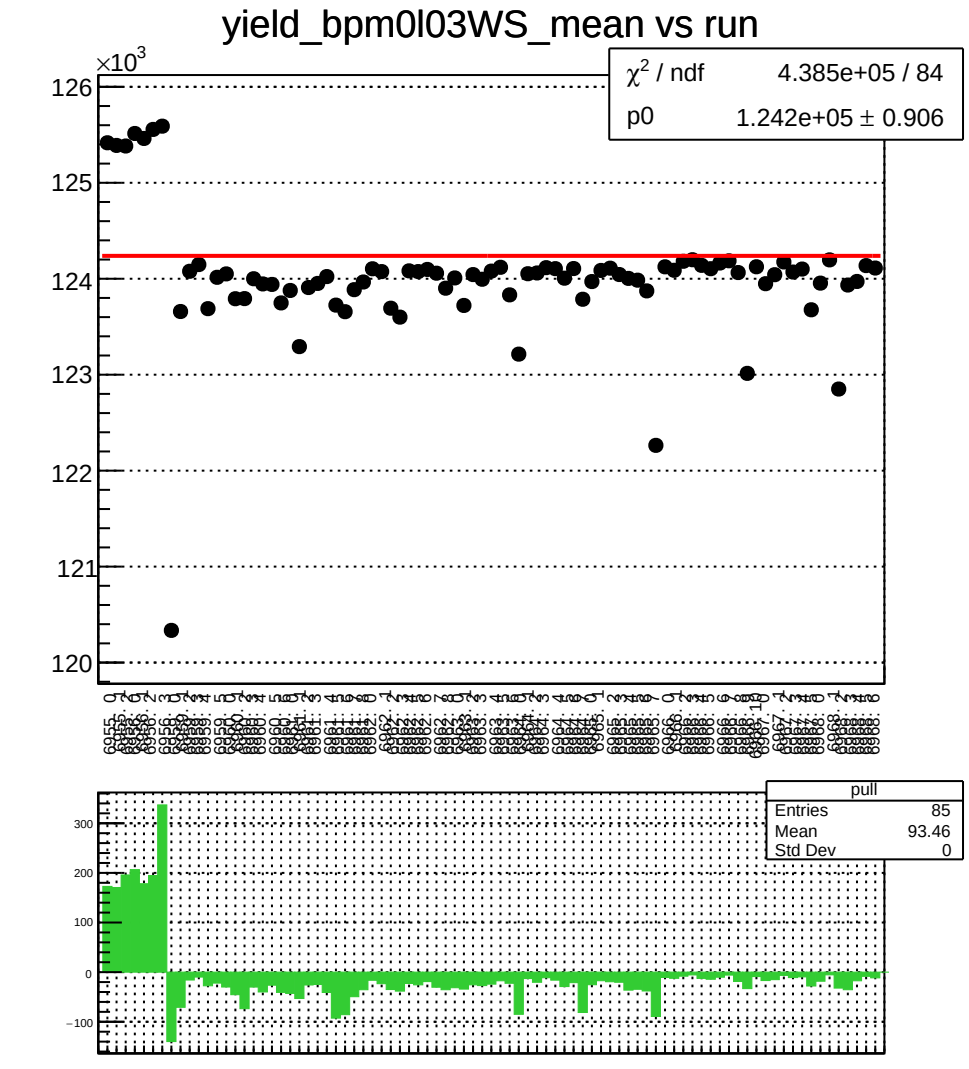

pull1D
Entries 85
Mean 1.142
Std Dev 5.536
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

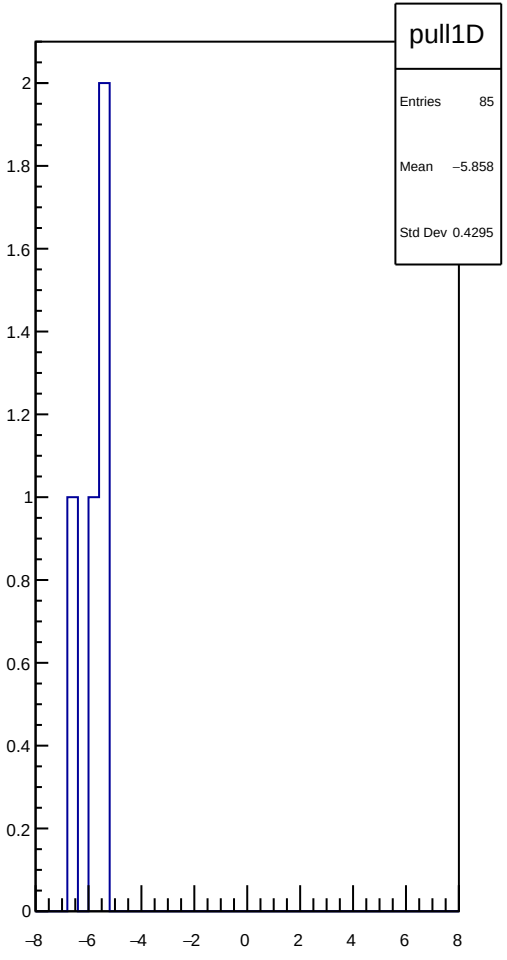

yield_bpm0l01WS_rms vs run
χ² / ndf 7.048e+04 / 84
p0 171.3 ± 0.1366
2500
2000
1500
1000
500

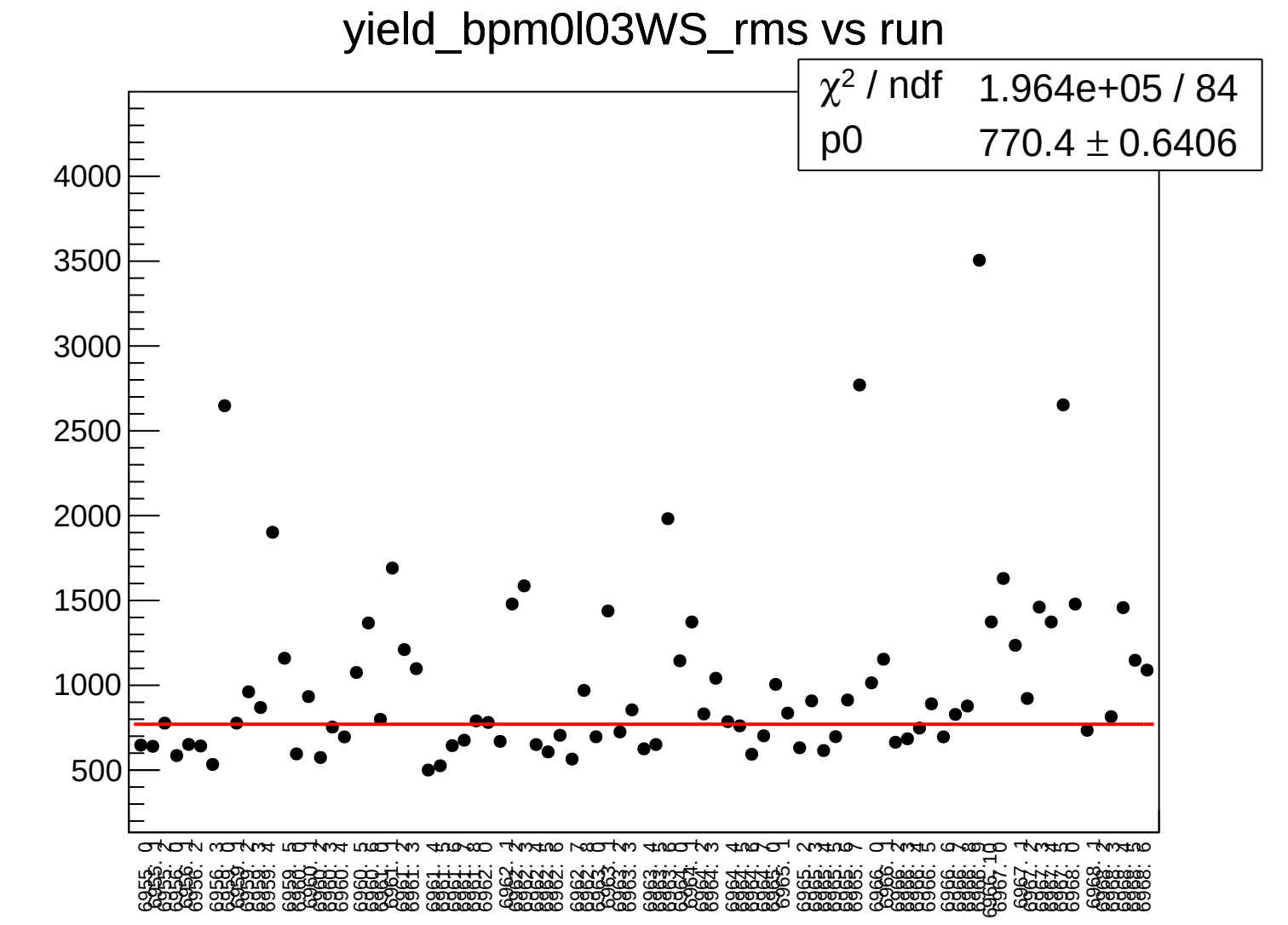

yield_bpm0l02WS_mean vs run
χ² / ndf 4.655e+06 / 84
p0 1.251e+05 ± 0.2685
×10³
127
126
125
124
123
122
pull
Entries 85
Mean −333.5
Std Dev 0
800
600
400
200
0
−200

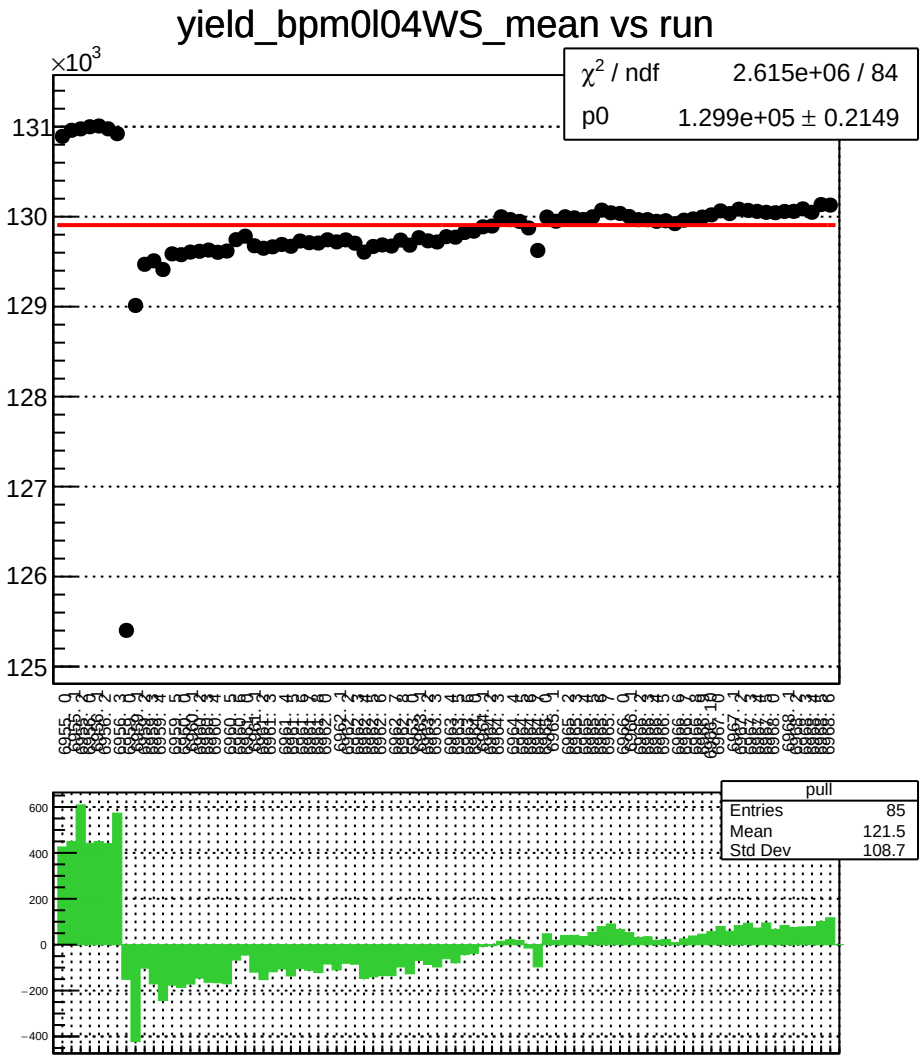

pull1D
Entries 85
Mean −0.9599
Std Dev 3.022
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

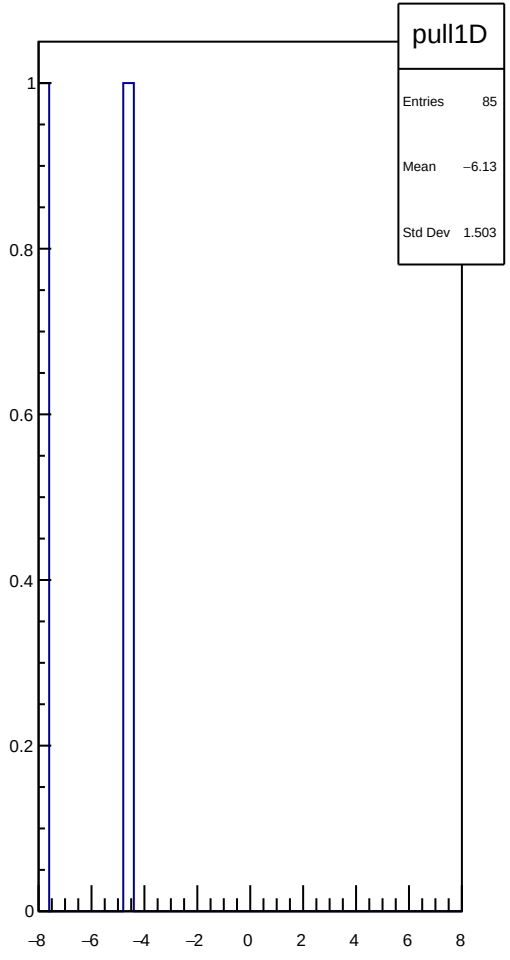

yield_bpm0l02WS_rms vs run
χ² / ndf 4.387e+04 / 84
p0 240 ± 0.1898
2500
2000
1500
1000
500

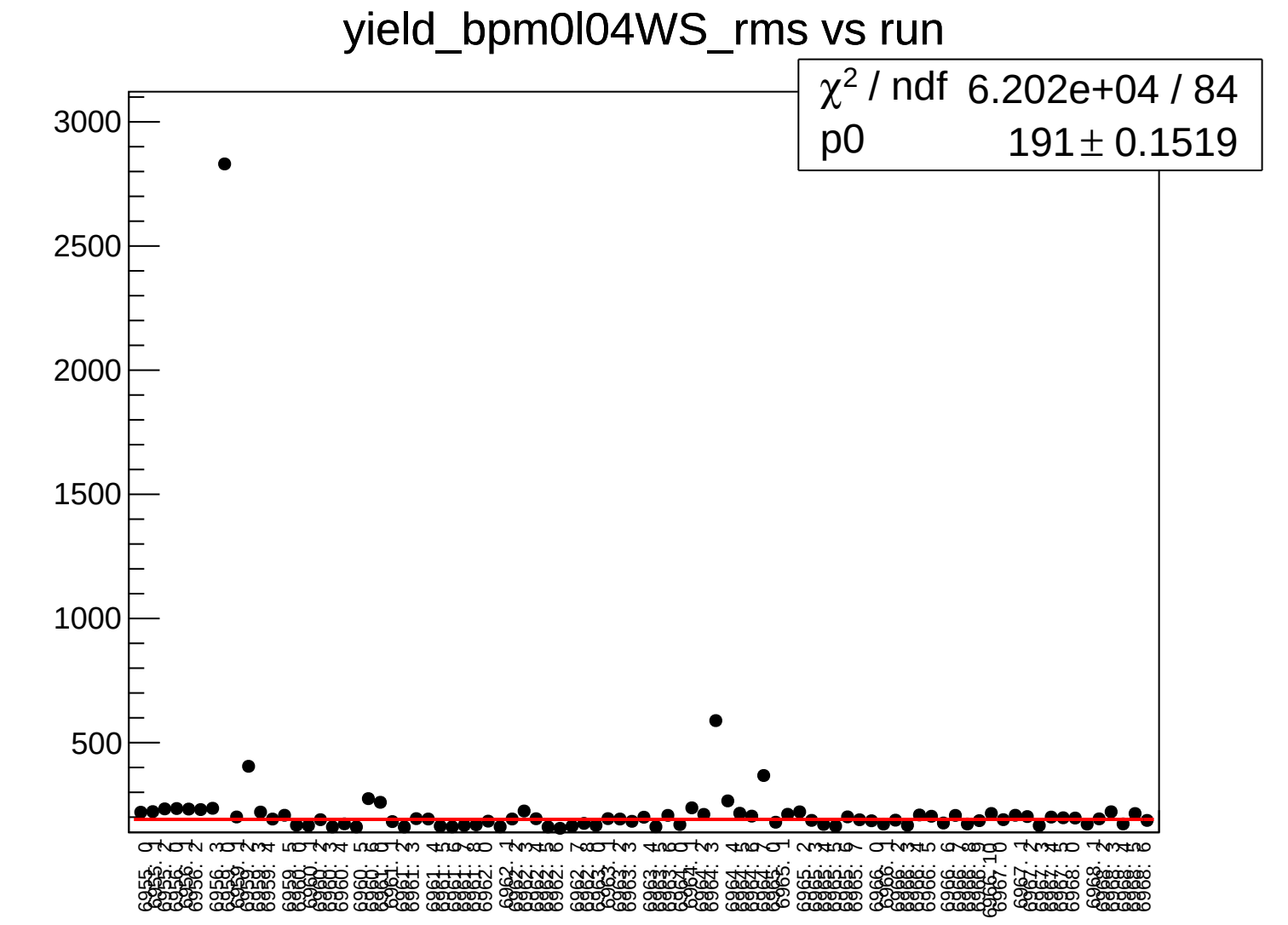

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 4.385e+05 / 84
p0 1.242e+05 ± 0.906
126
125
124
123
122
121
120
pull
Entries 85
Mean 93.46
Std Dev 0
300
200
100
0
−100

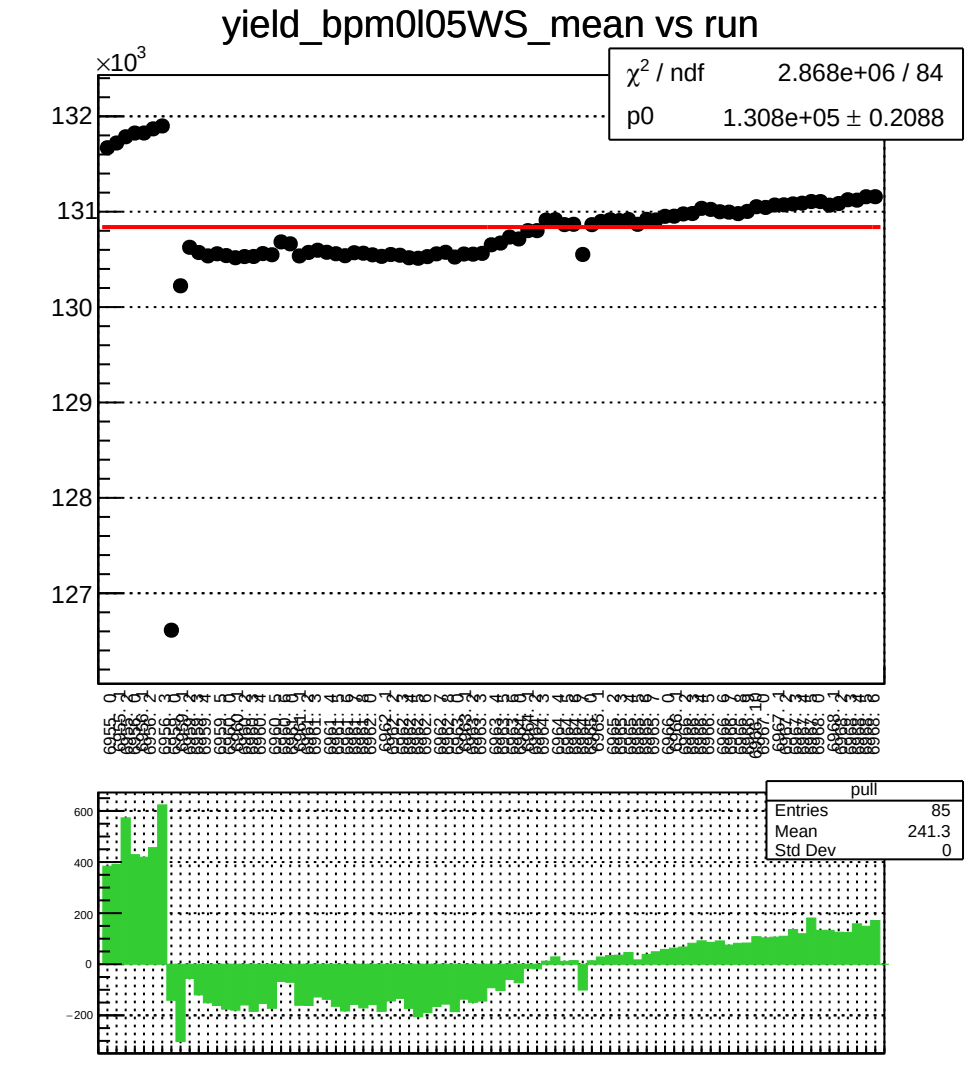

pull1D
Entries 85
Mean −5.858
Std Dev 0.4295
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

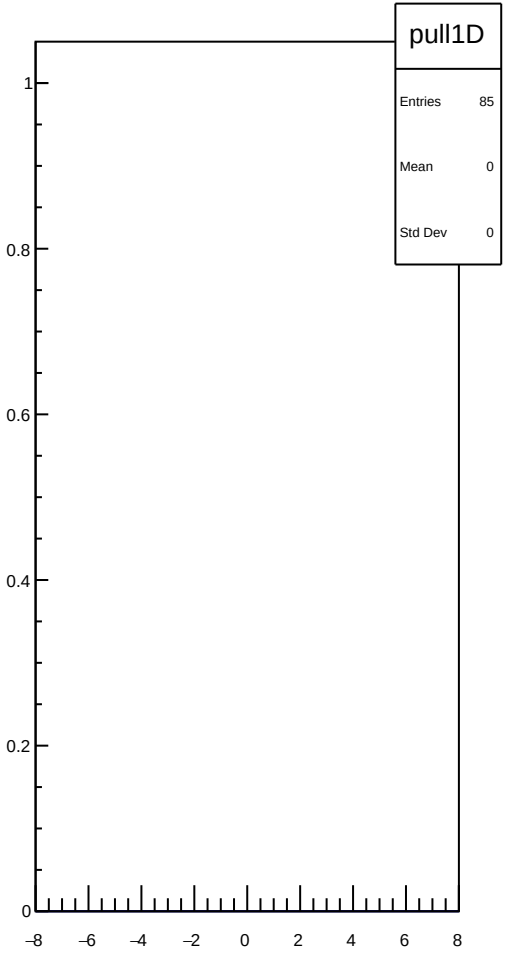

yield_bpm0l03WS_rms vs run
$\chi^2$ / ndf 1.964e+05 / 84
p0 770.4 ± 0.6406
4000
3500
3000
2500
2000
1500
1000
500

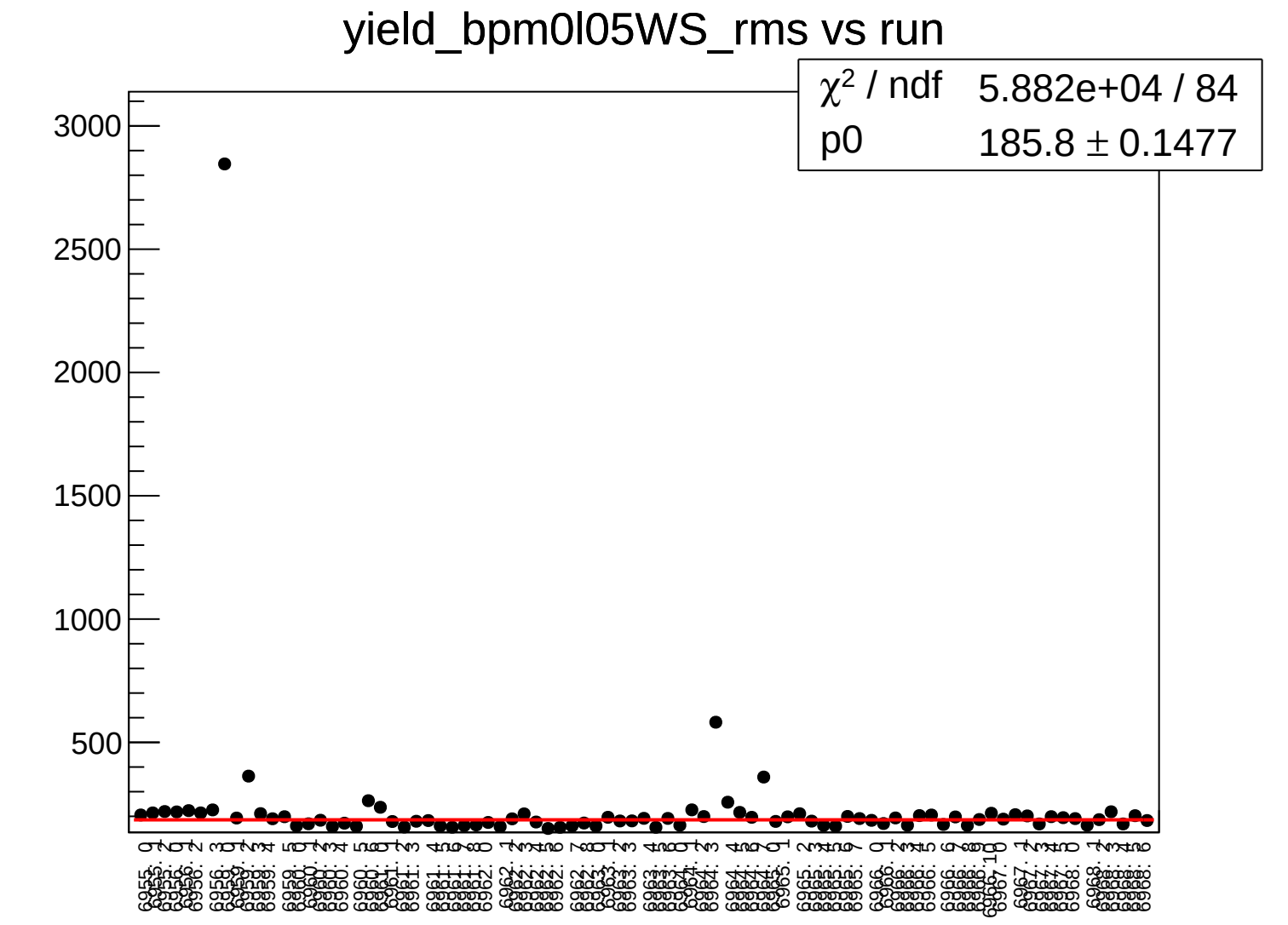

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 2.615e+06 / 84
p0 1.299e+05 ± 0.2149
131
130
129
128
127
126
125
pull
Entries 85
Mean 121.5
Std Dev 108.7
600
400
200
0
−200
−400

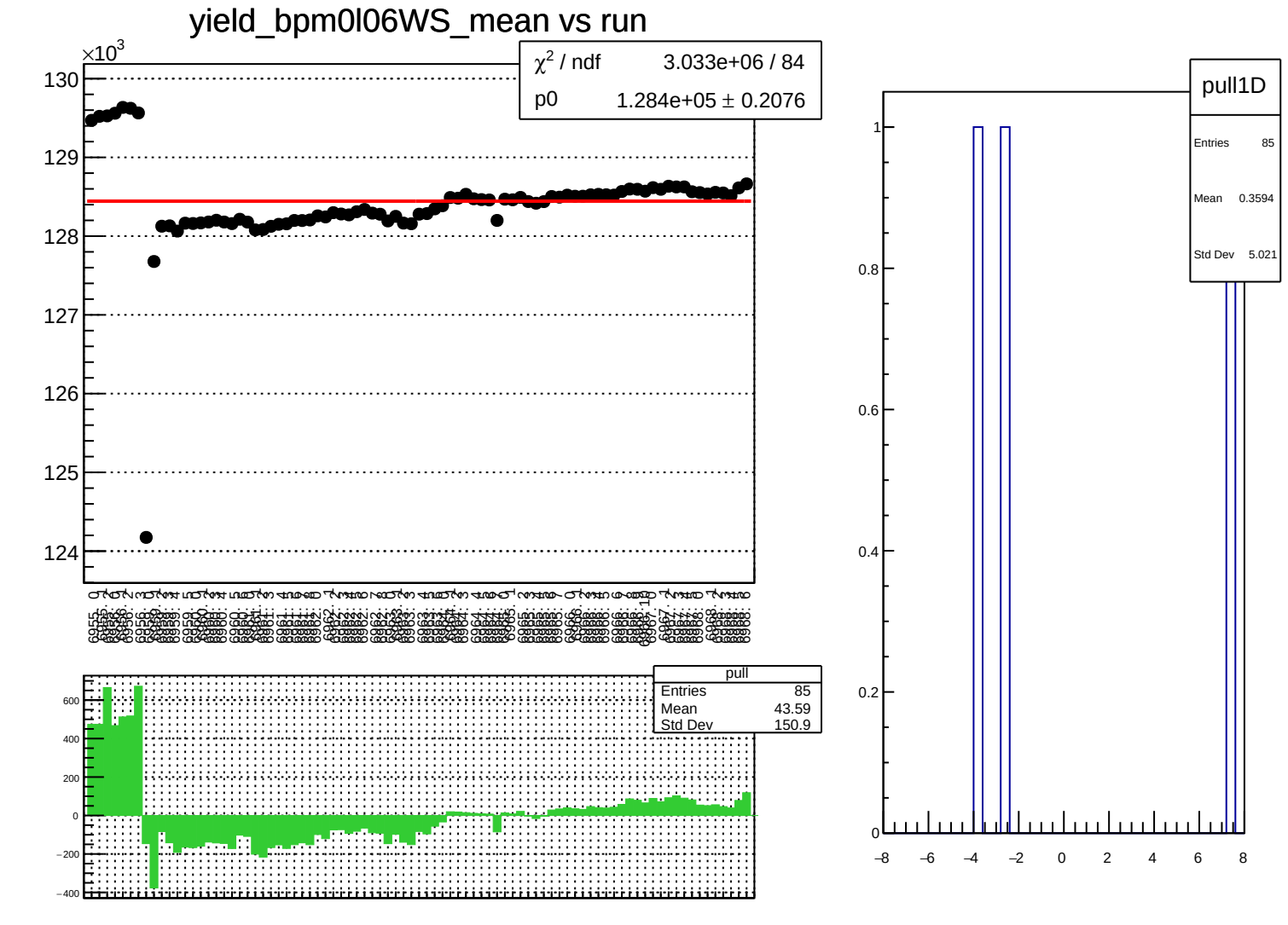

pull1D
Entries 85
Mean −6.13
Std Dev 1.503
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

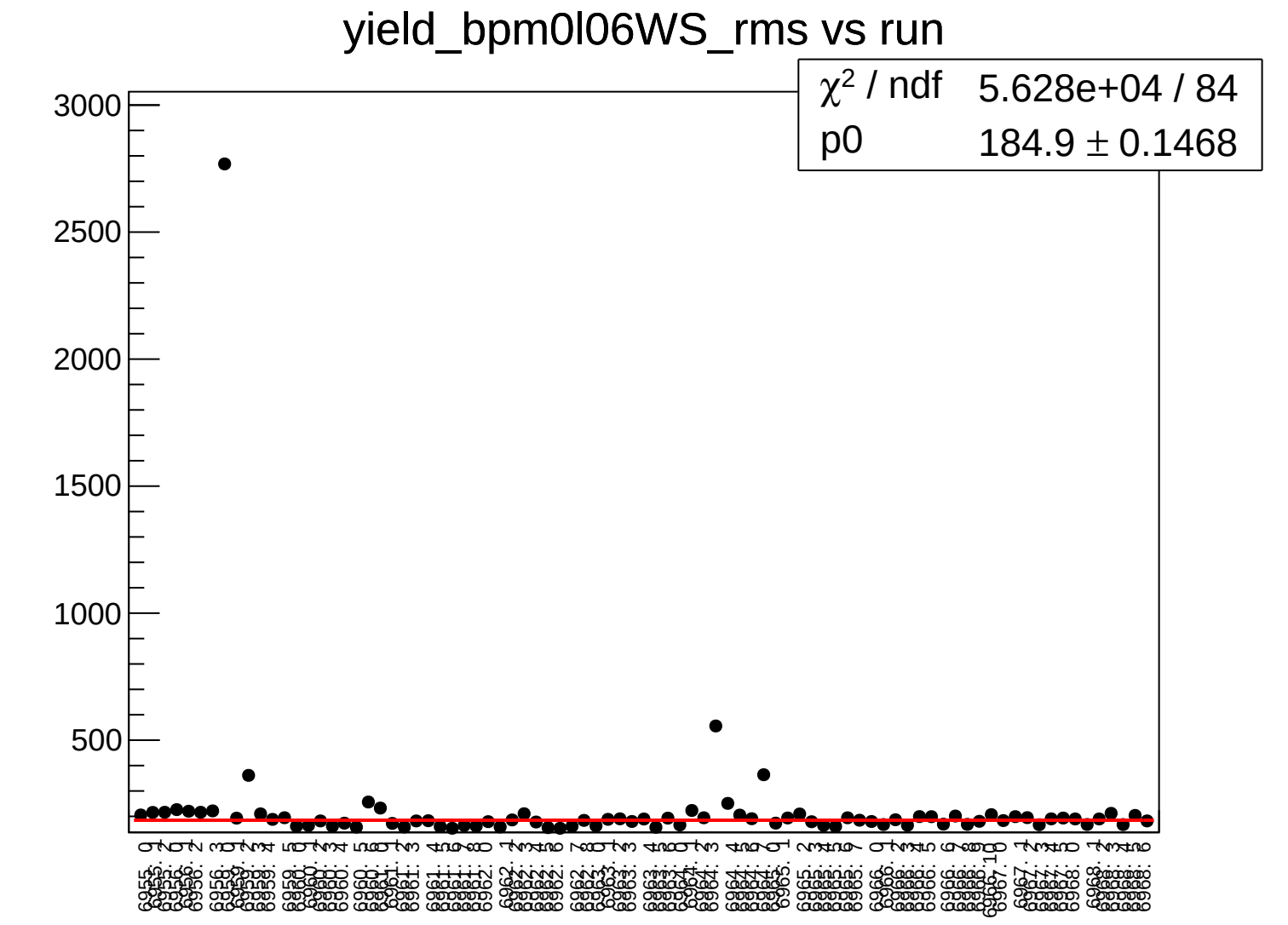

yield_bpm0l04WS_rms vs run
χ² / ndf 6.202e+04 / 84
p0 191 ± 0.1519
3000
2500
2000
1500
1000
500

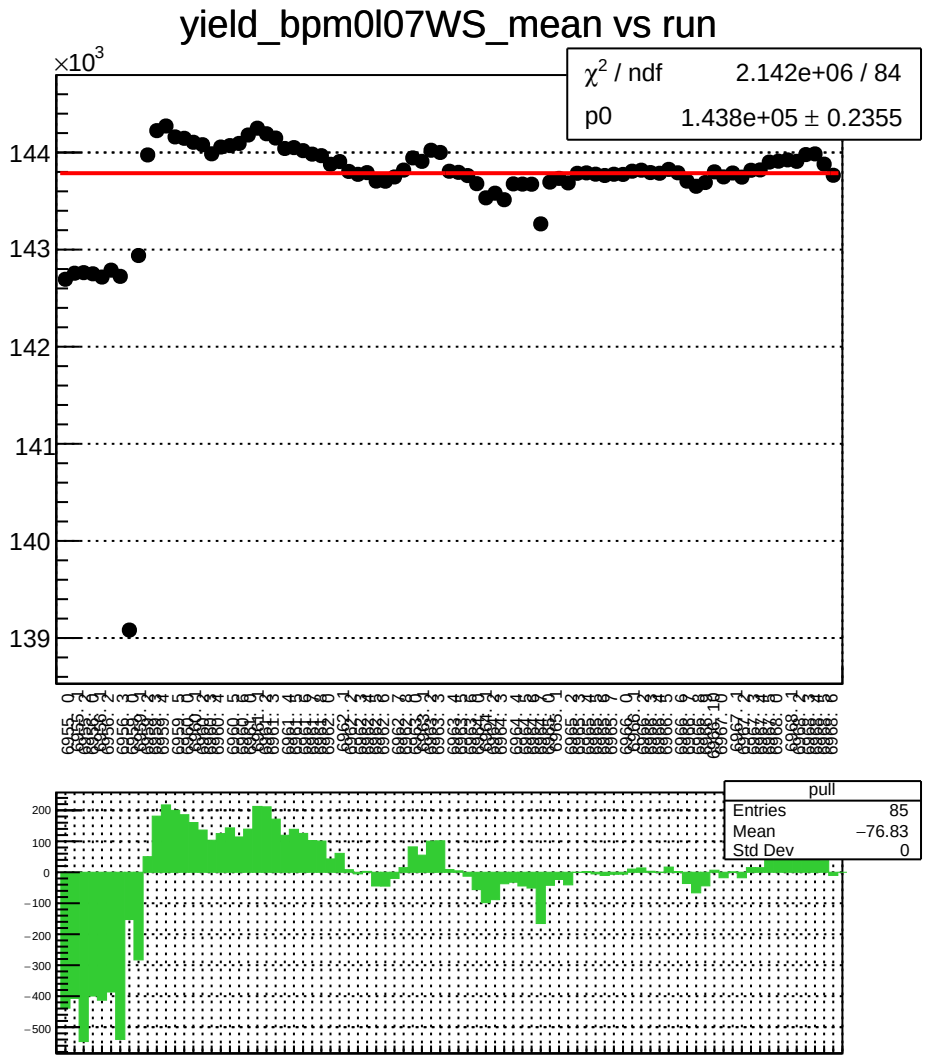

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 2.868e+06 / 84
p0 1.308e+05 ± 0.2088
132
131
130
129
128
127
pull
Entries 85
Mean 241.3
Std Dev 0
600
400
200
0
−200

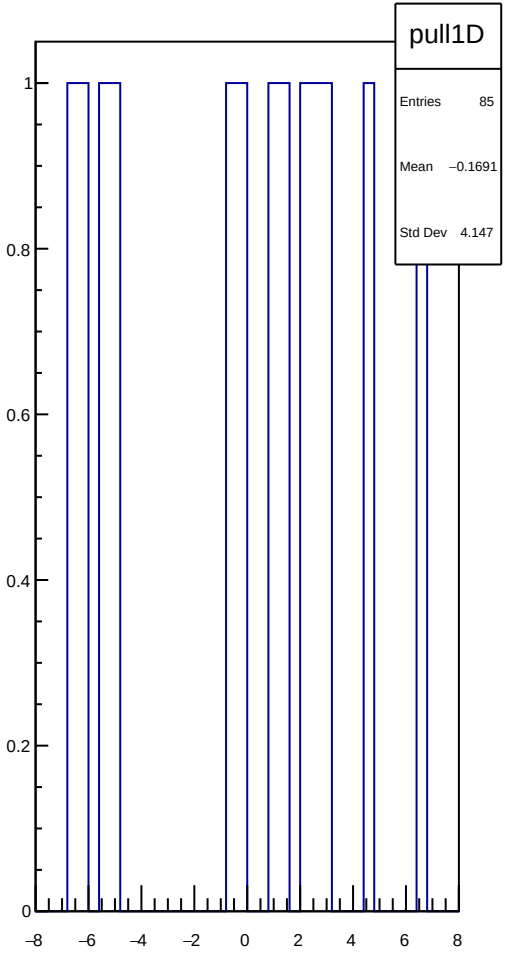

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

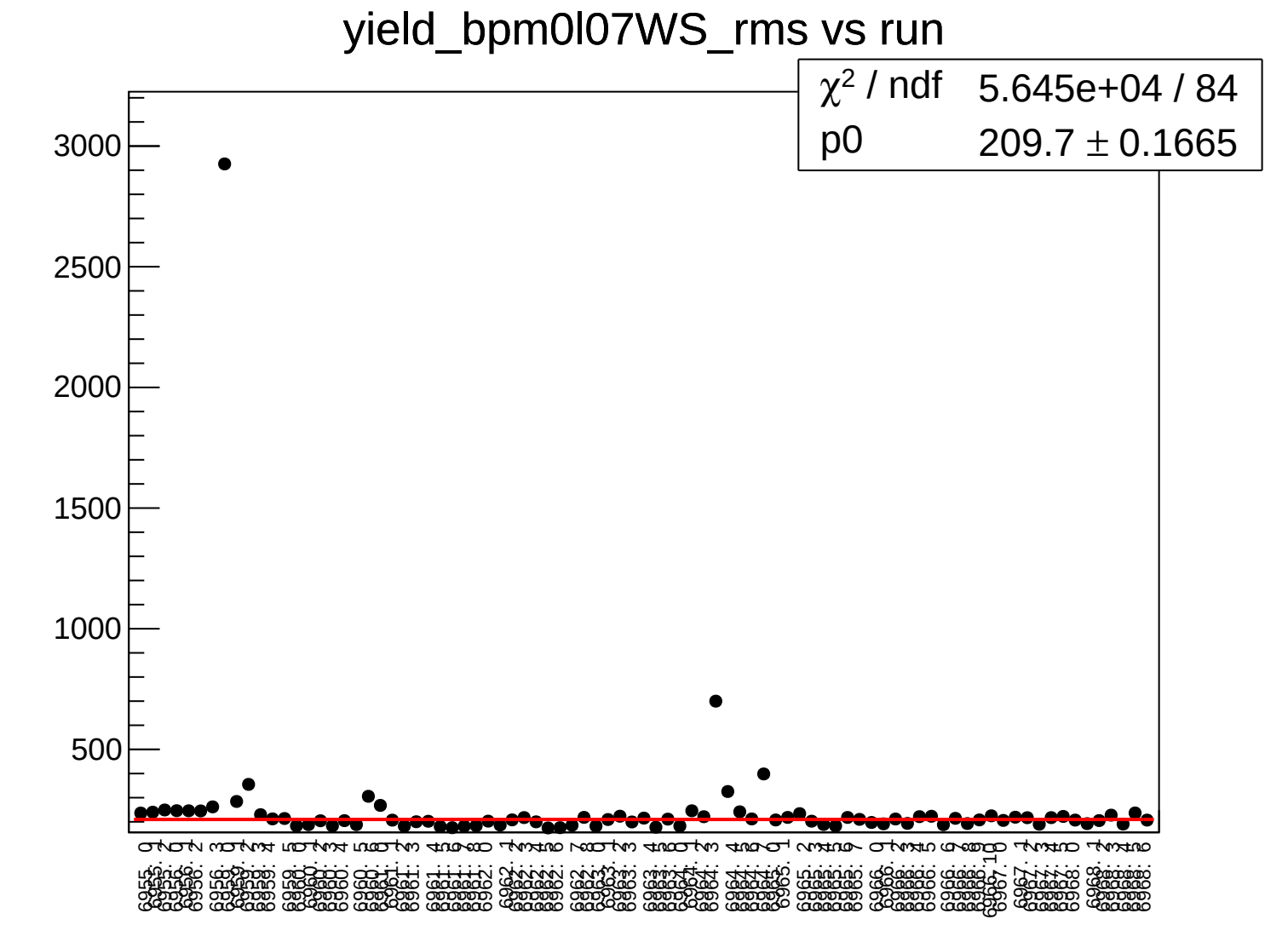

yield_bpm0l05WS_rms vs run
χ² / ndf 5.882e+04 / 84
p0 185.8 ± 0.1477
3000
2500
2000
1500
1000
500

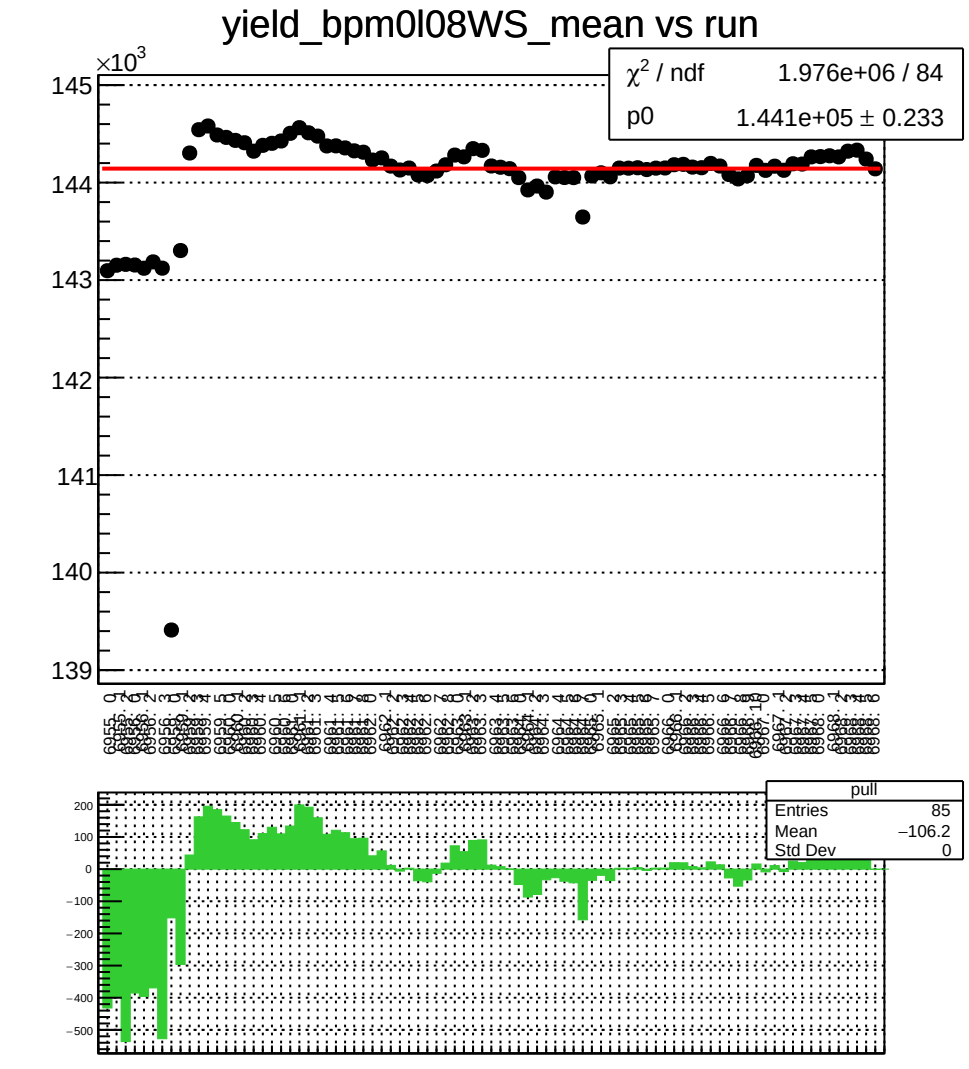

yield_bpm0l06WS_mean vs run
×10^3
130
129
128
127
126
125
124
χ² / ndf 3.033e+06 / 84
p0 1.284e+05 ± 0.2076
pull
Entries 85
Mean 43.59
Std Dev 150.9
600
400
200
0
−200
−400
pull1D
Entries 85
Mean 0.3594
Std Dev 5.021
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

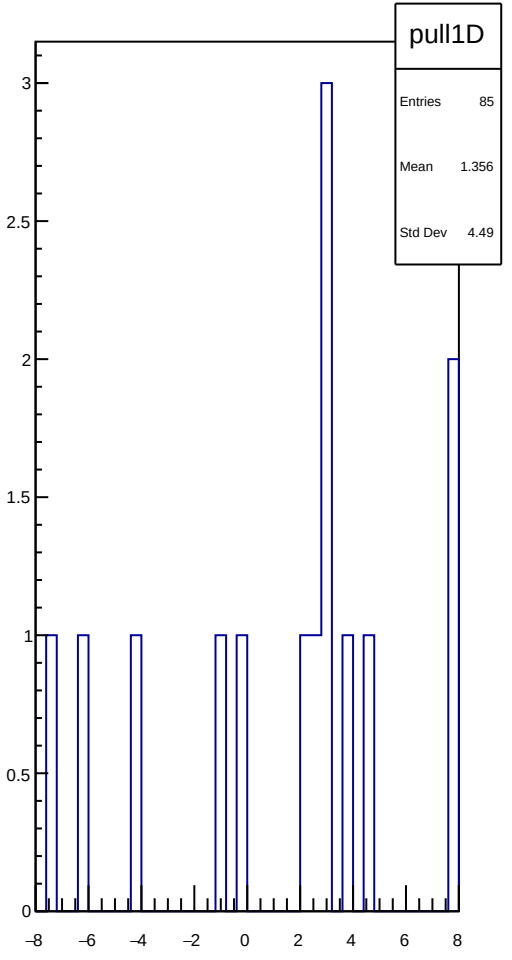

yield_bpm0l06WS_rms vs run
χ² / ndf 5.628e+04 / 84
p0 184.9 ± 0.1468
3000
2500
2000
1500
1000
500

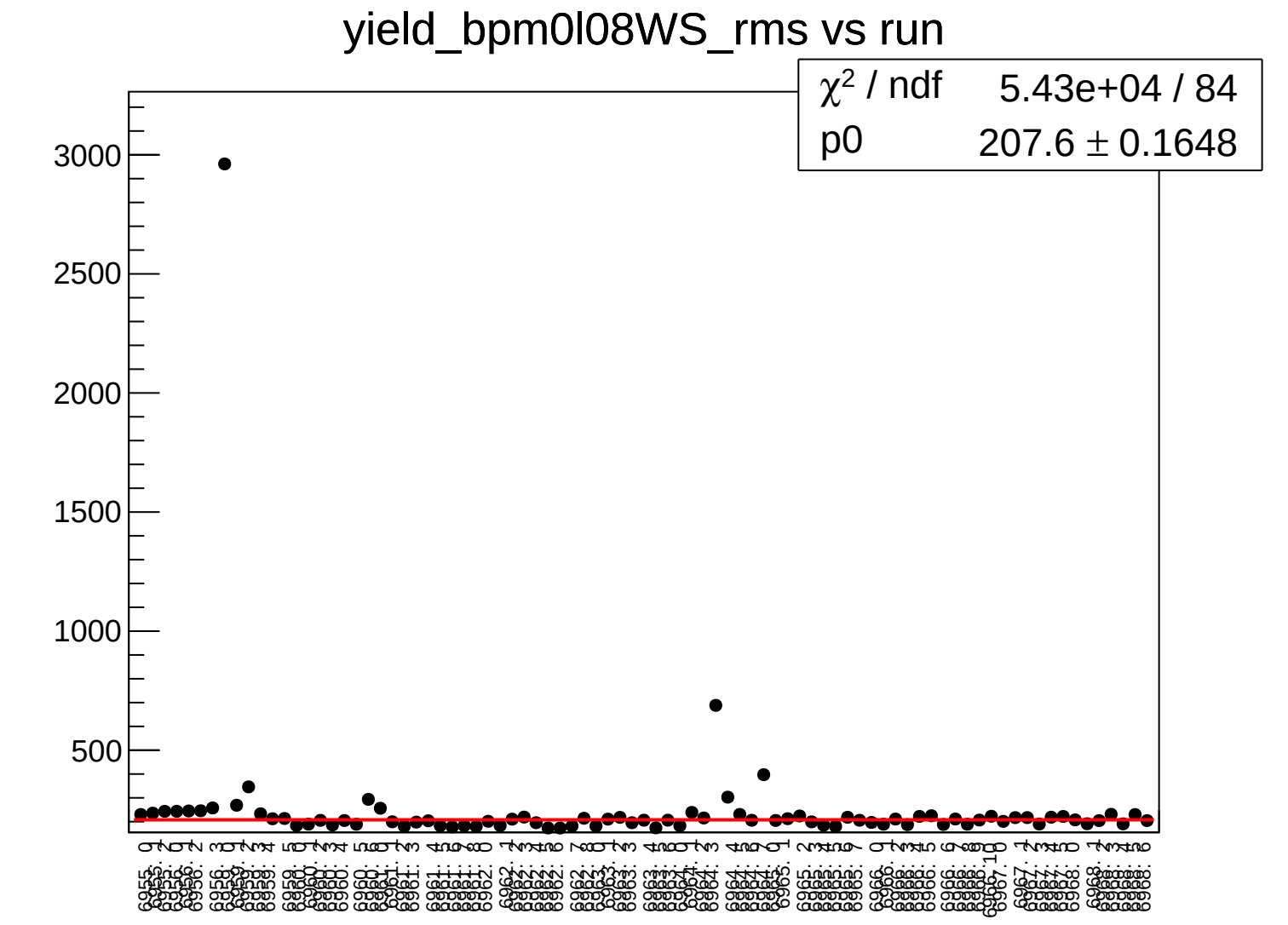

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 2.142e+06 / 84
p0 1.438e+05 ± 0.2355
144
143
142
141
140
139
pull
Entries 85
Mean −76.83
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

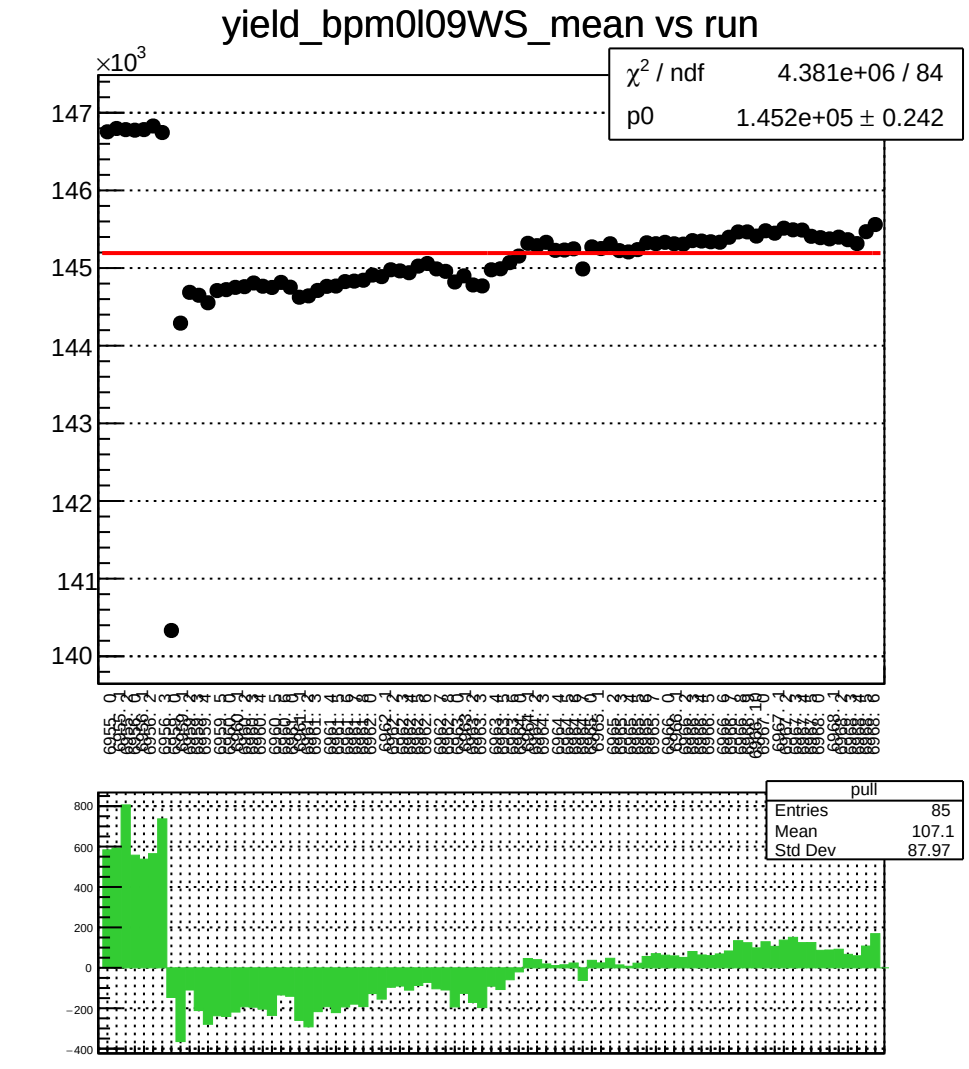

pull1D
Entries 85
Mean −0.1691
Std Dev 4.147
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

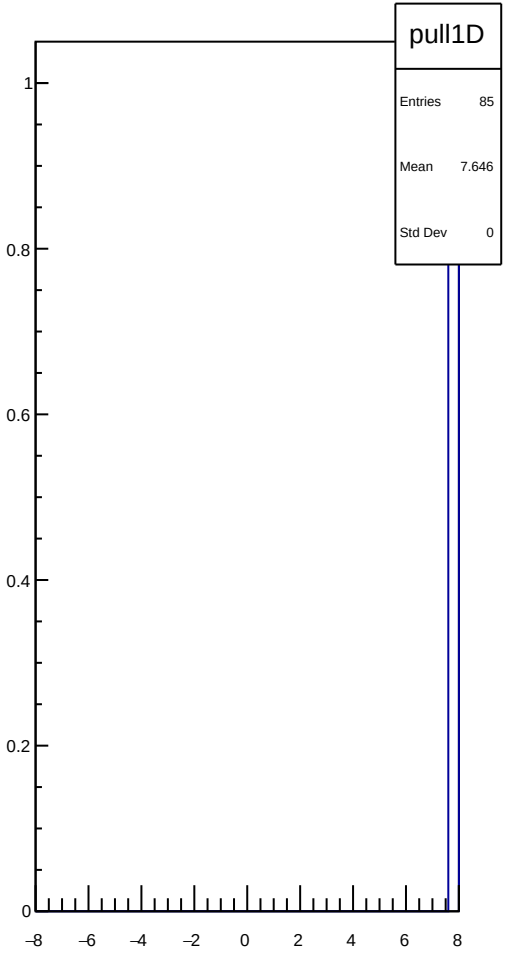

yield_bpm0l07WS_rms vs run
χ² / ndf 5.645e+04 / 84
p0 209.7 ± 0.1665
3000
2500
2000
1500
1000
500

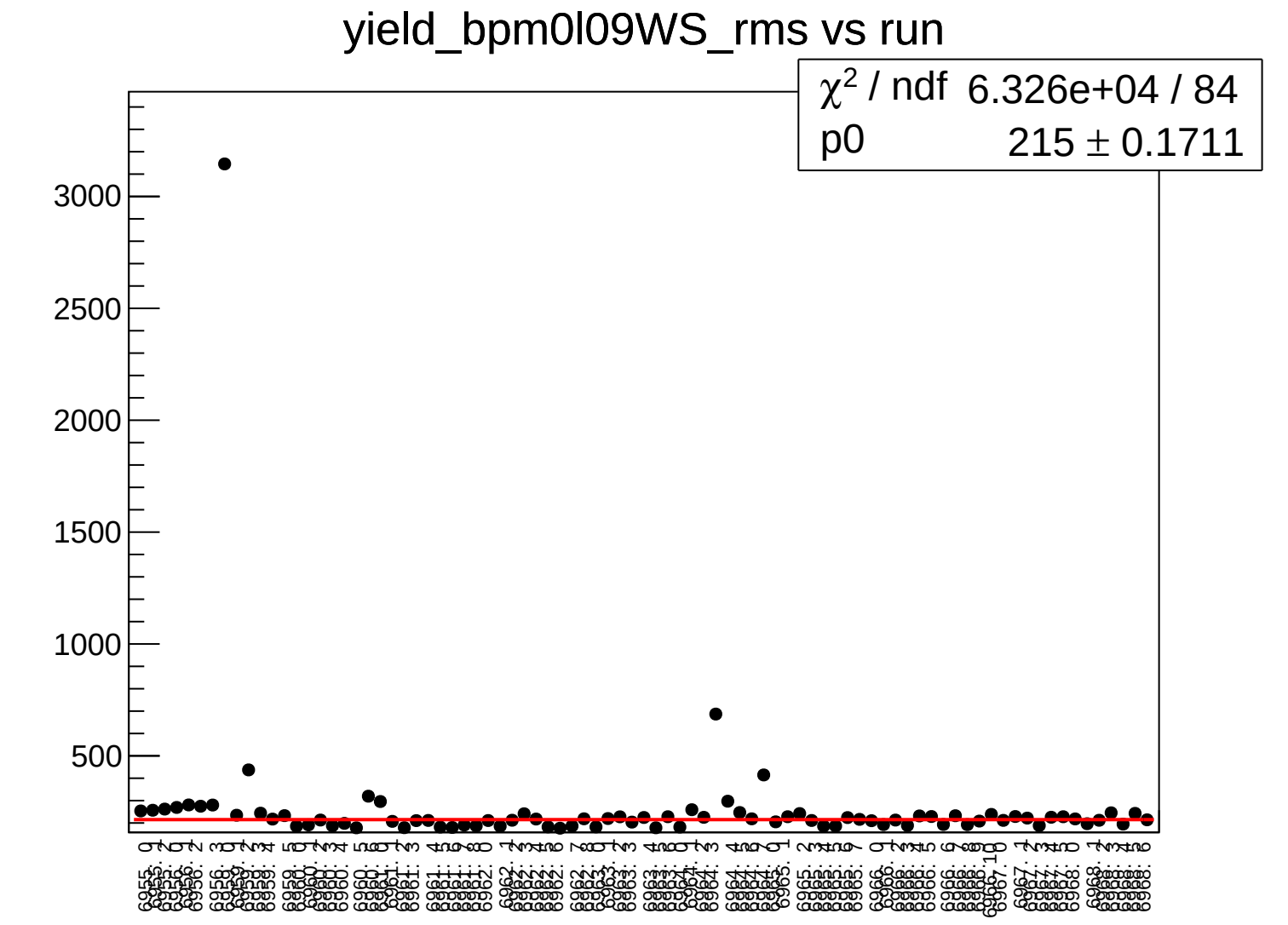

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 1.976e+06 / 84
p0 1.441e+05 ± 0.233
145
144
143
142
141
140
139
pull
Entries 85
Mean −106.2
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

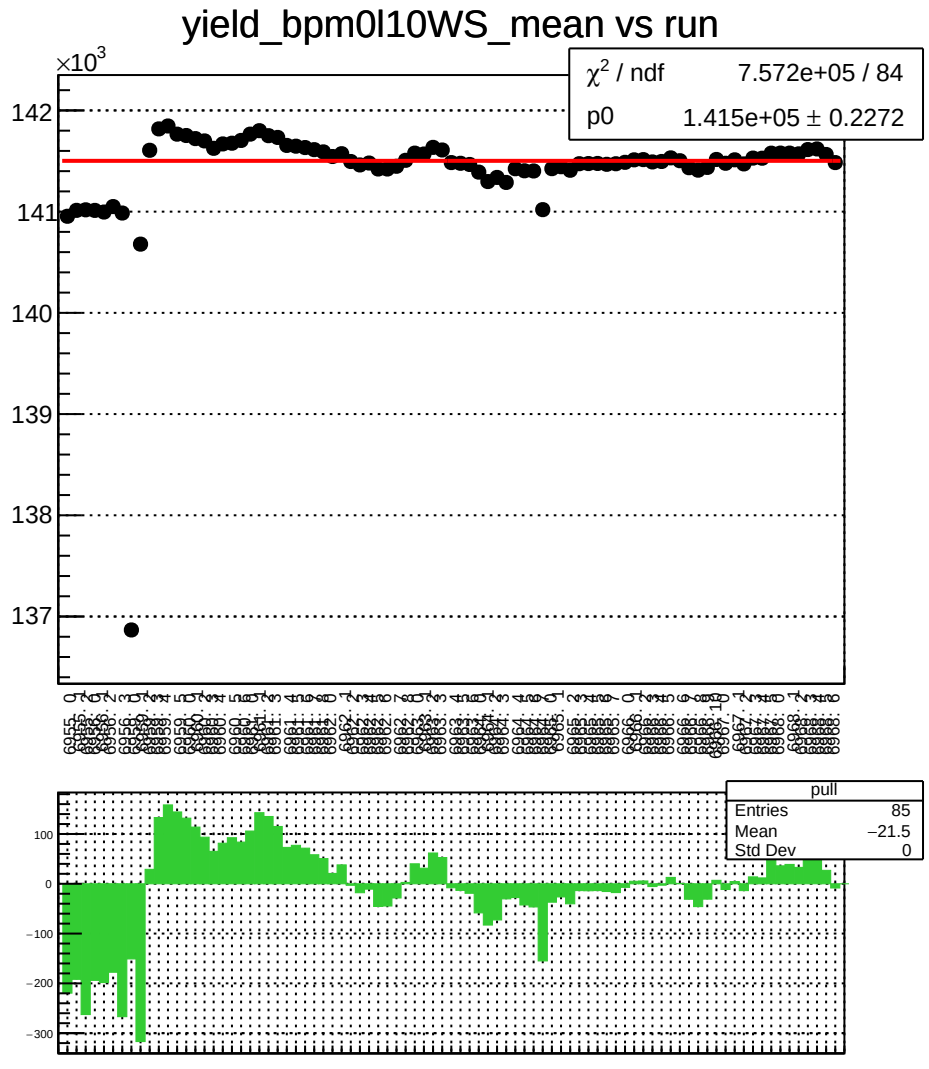

pull1D
Entries 85
Mean 1.356
Std Dev 4.49
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

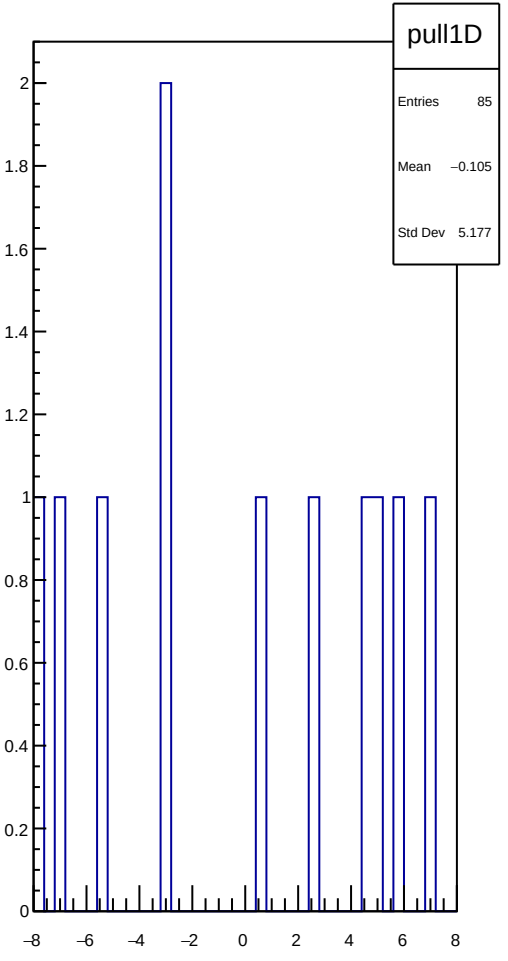

yield_bpm0l08WS_rms vs run
χ² / ndf 5.43e+04 / 84
p0 207.6 ± 0.1648
3000
2500
2000
1500
1000
500

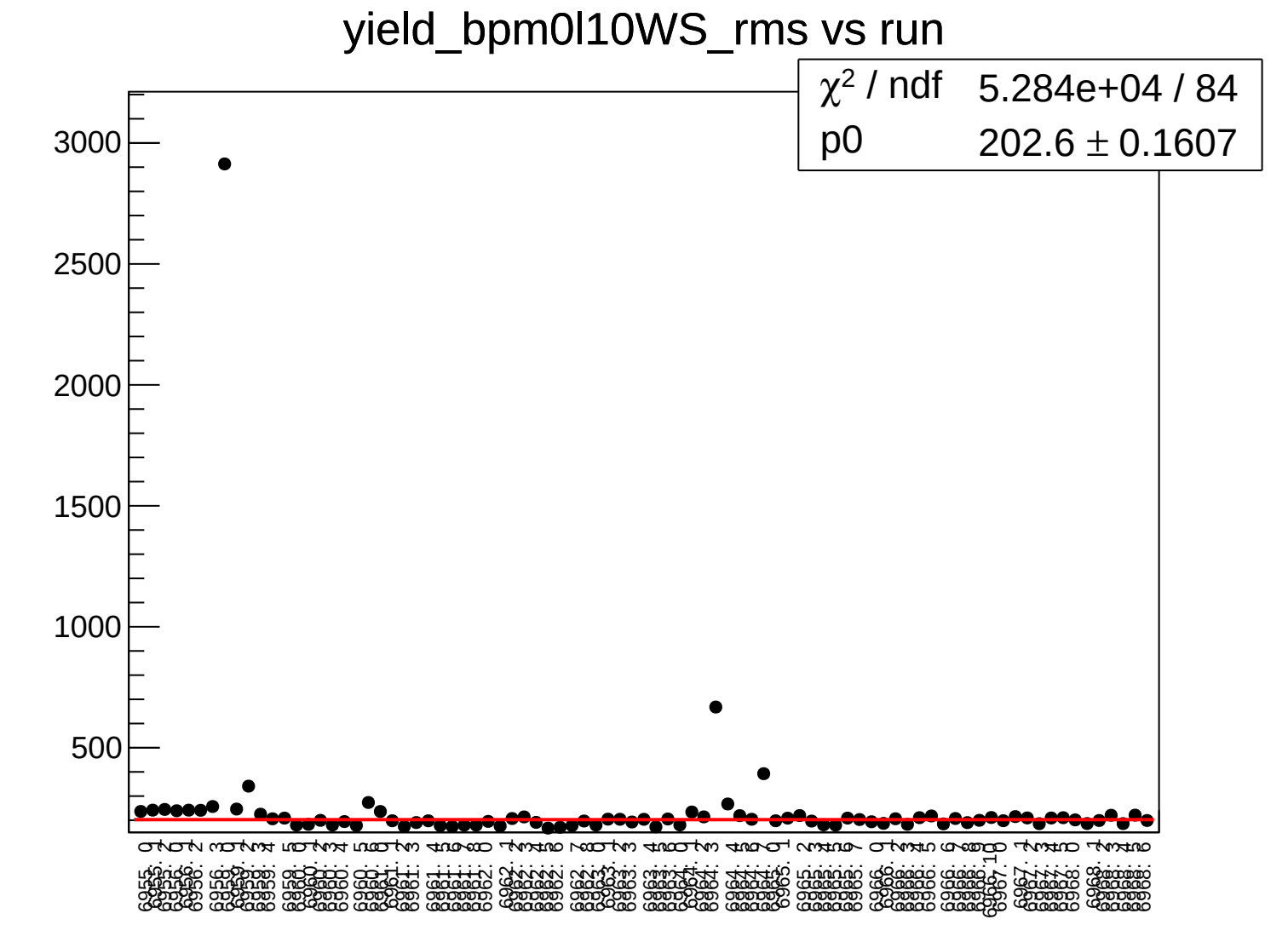

yield_bpm0l09WS_mean vs run
×10^3
χ^2 / ndf 4.381e+06 / 84
p0 1.452e+05 ± 0.242
147
146
145
144
143
142
141
140
pull
Entries 85
Mean 107.1
Std Dev 87.97
800
600
400
200
0
−200
−400

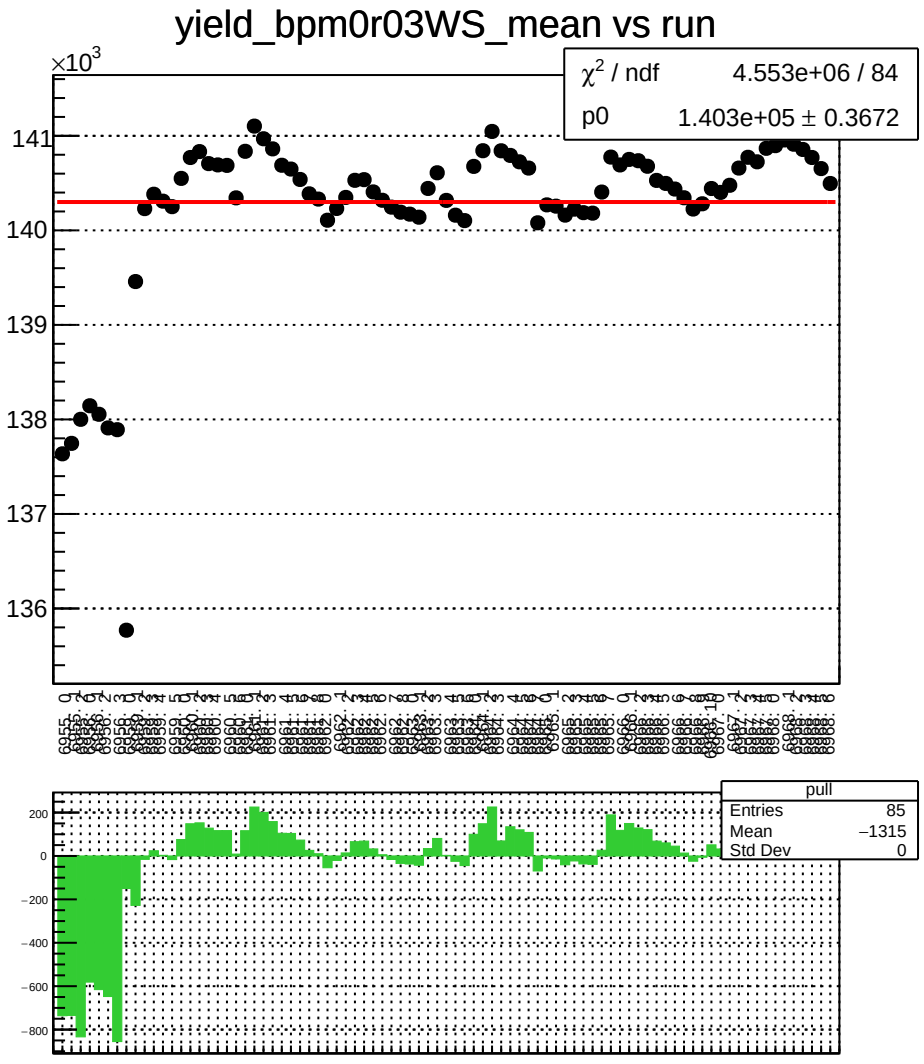

pull1D
Entries 85
Mean 7.646
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

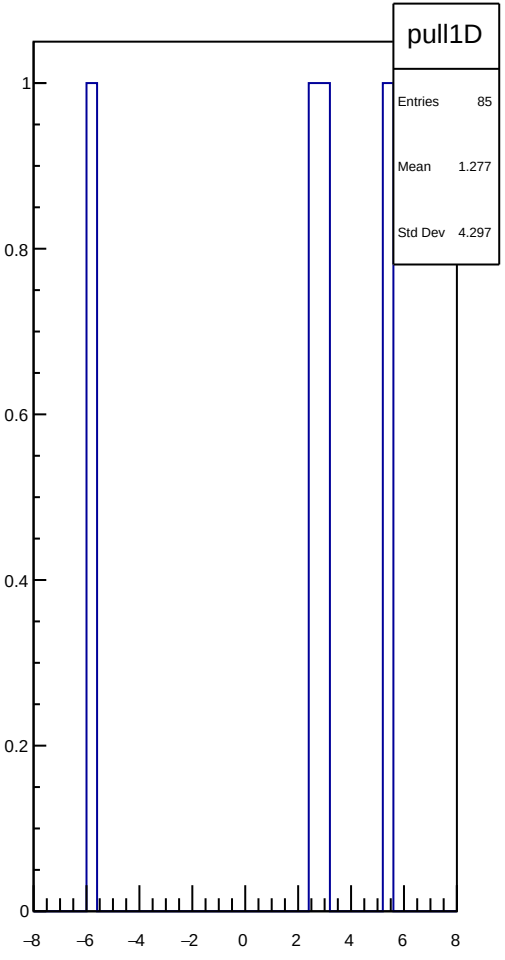

yield_bpm0l09WS_rms vs run
χ² / ndf 6.326e+04 / 84
p0 215 ± 0.1711
3000
2500
2000
1500
1000
500

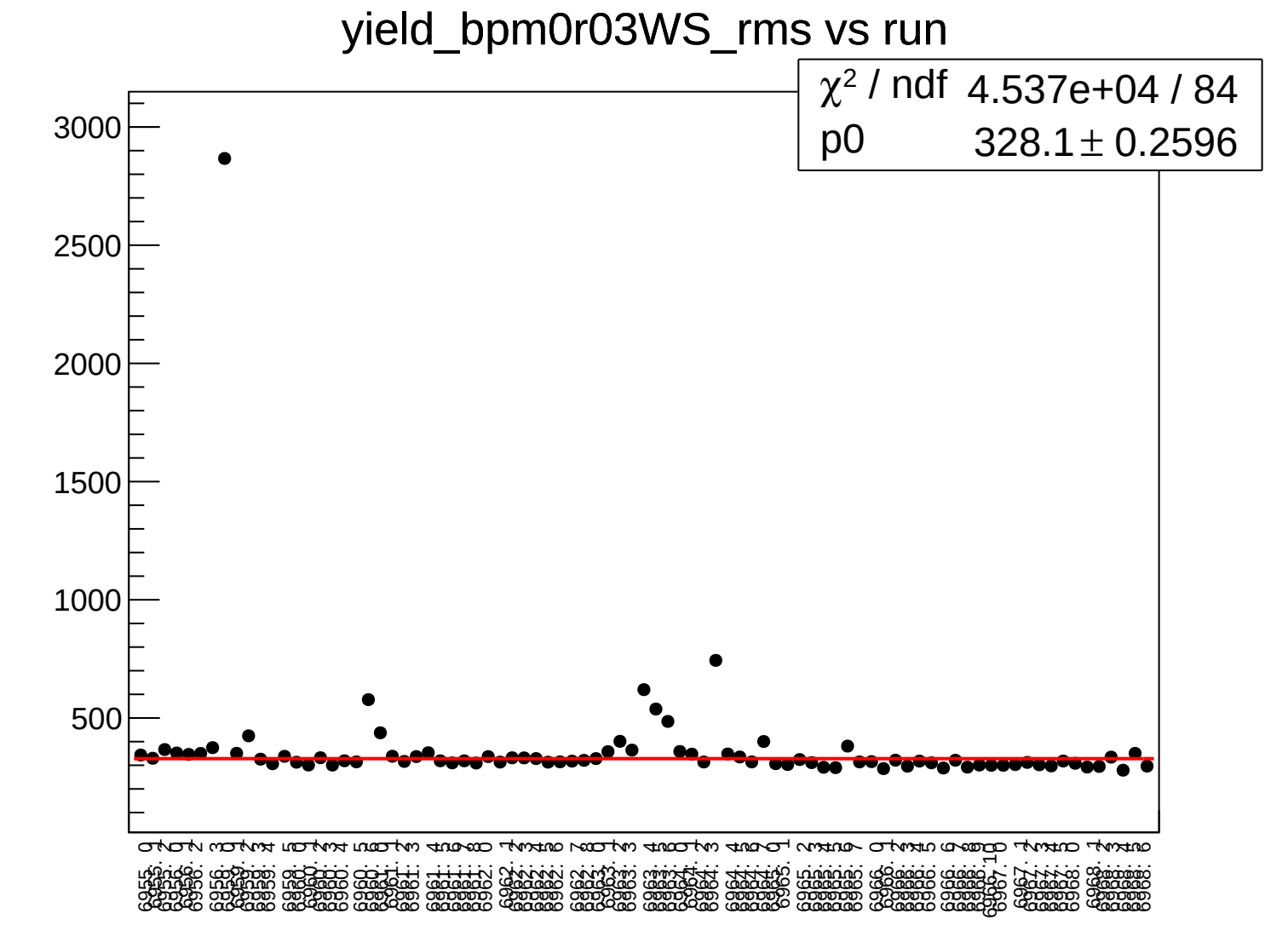

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 7.572e+05 / 84
p0 1.415e+05 ± 0.2272
142
141
140
139
138
137
pull
Entries 85
Mean −21.5
Std Dev 0
100
0
−100
−200
−300

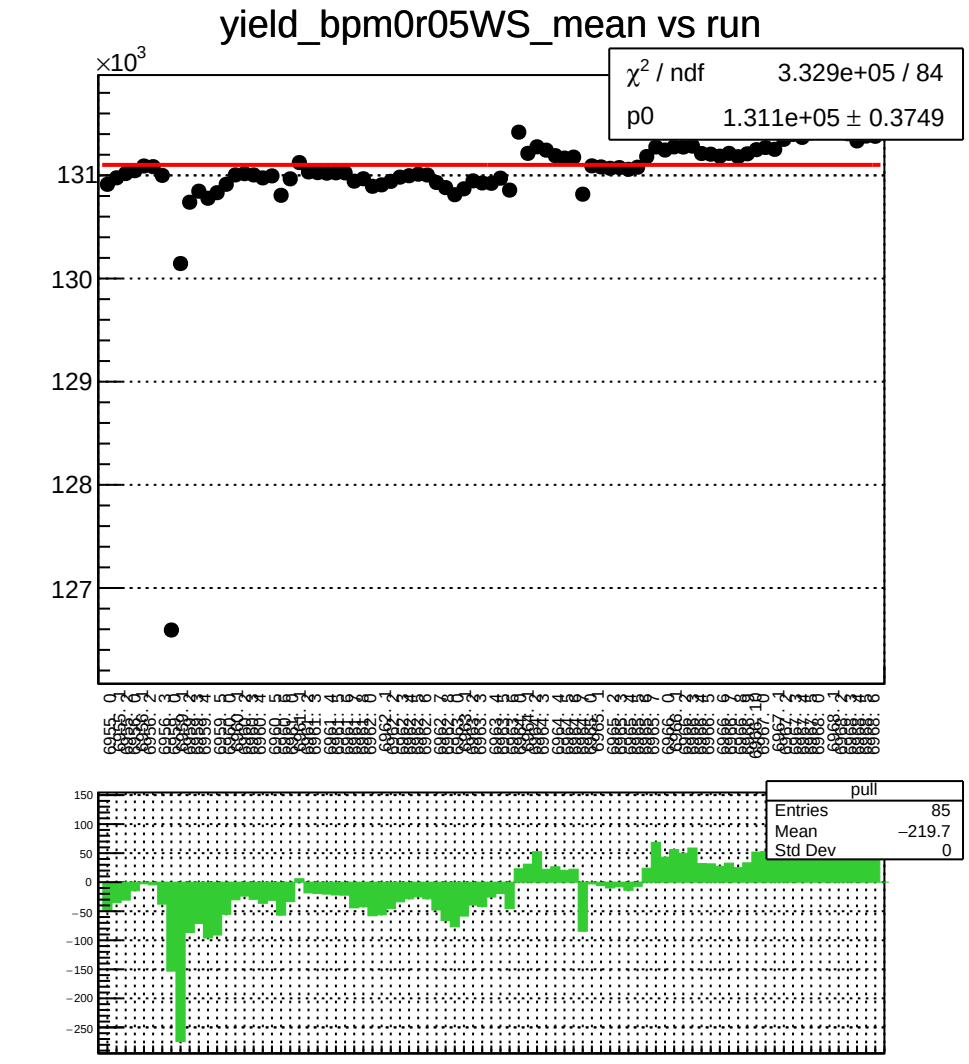

pull1D
Entries 85
Mean −0.105
Std Dev 5.177
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

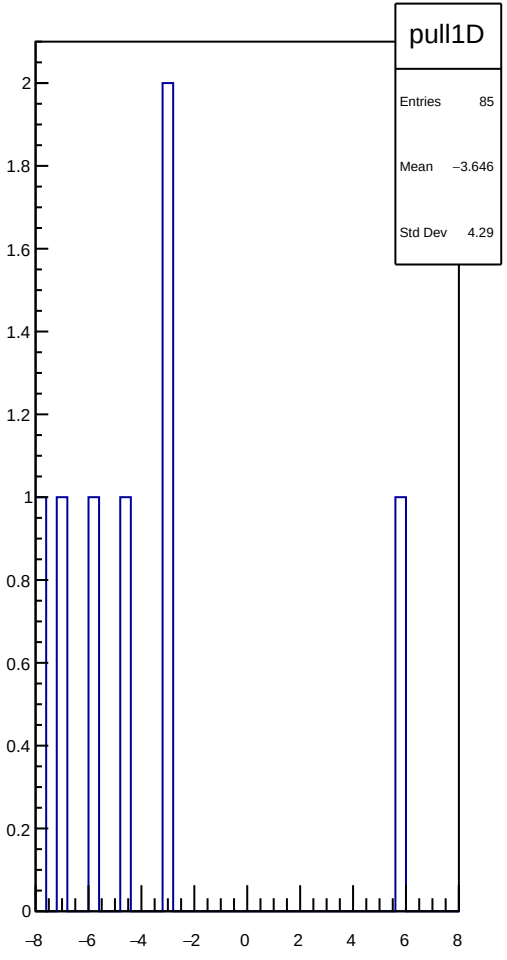

yield_bpm0l10WS_rms vs run
χ² / ndf 5.284e+04 / 84
p0 202.6 ± 0.1607
3000
2500
2000
1500
1000
500

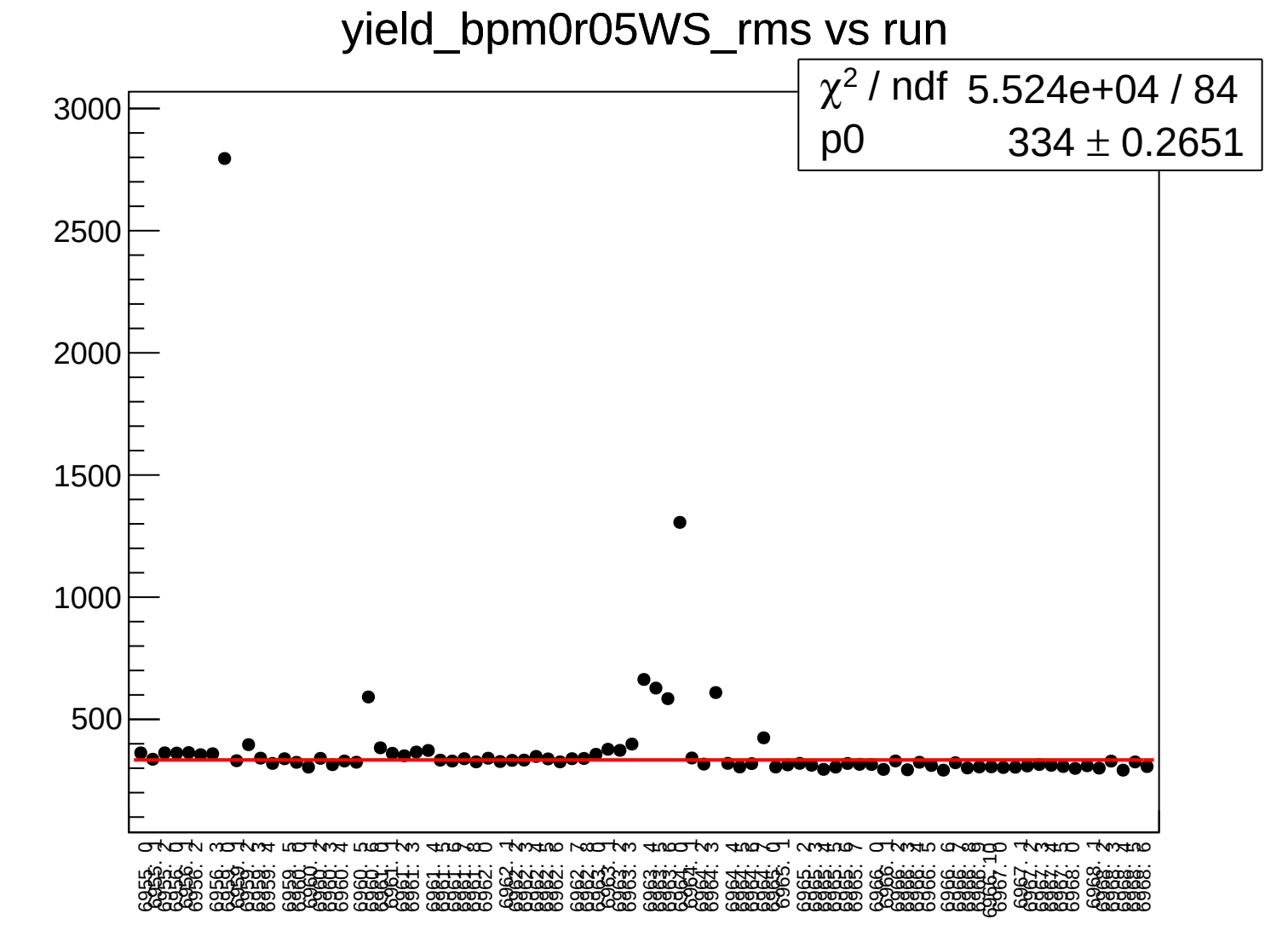

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 4.553e+06 / 84
p0 1.403e+05 ± 0.3672
141
140
139
138
137
136
pull
Entries 85
Mean −1315
Std Dev 0
200
0
−200
−400
−600
−800

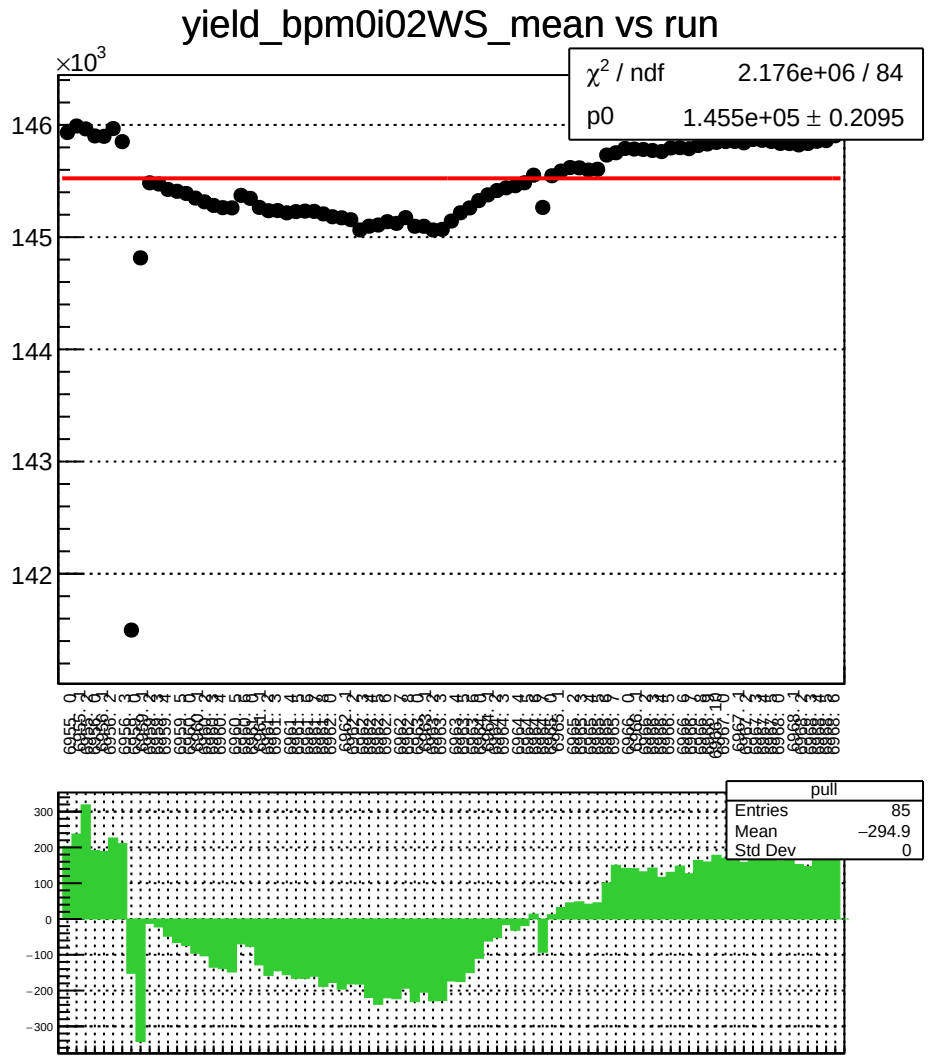

pull1D
Entries 85
Mean 1.277
Std Dev 4.297
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

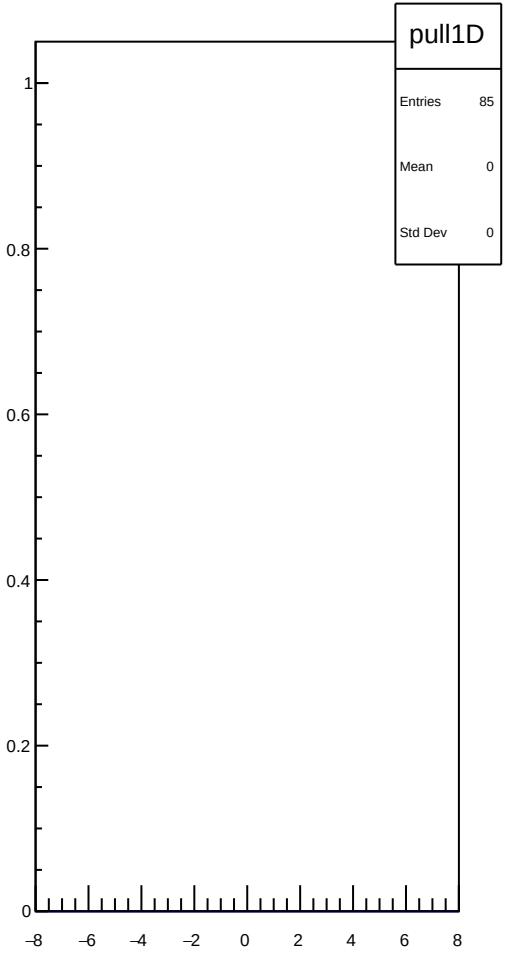

yield_bpm0r03WS_rms vs run
χ² / ndf 4.537e+04 / 84
p0 328.1 ± 0.2596
3000
2500
2000
1500
1000
500

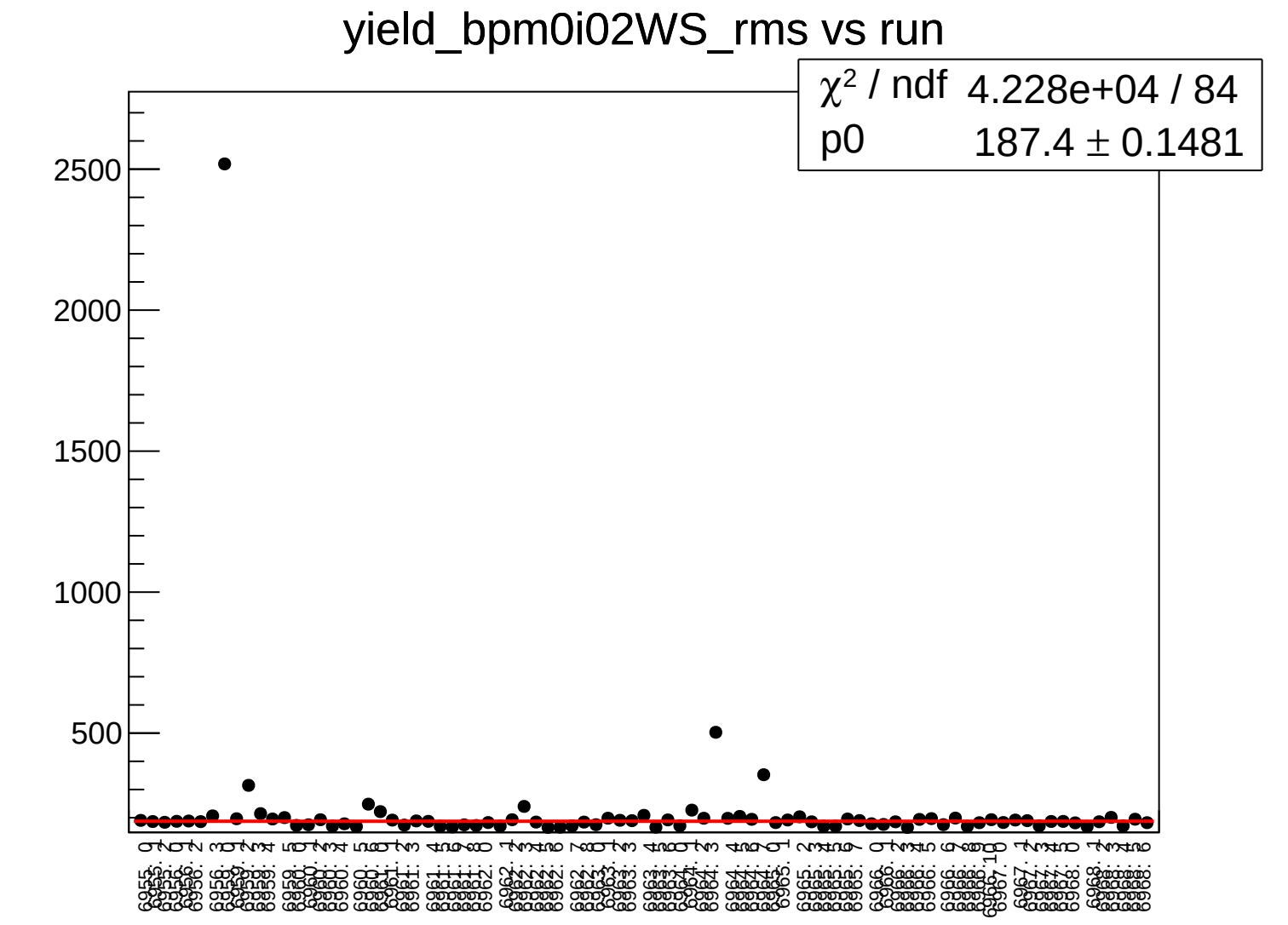

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 3.329e+05 / 84
p0 1.311e+05 ± 0.3749
131
130
129
128
127
pull
Entries 85
Mean −219.7
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

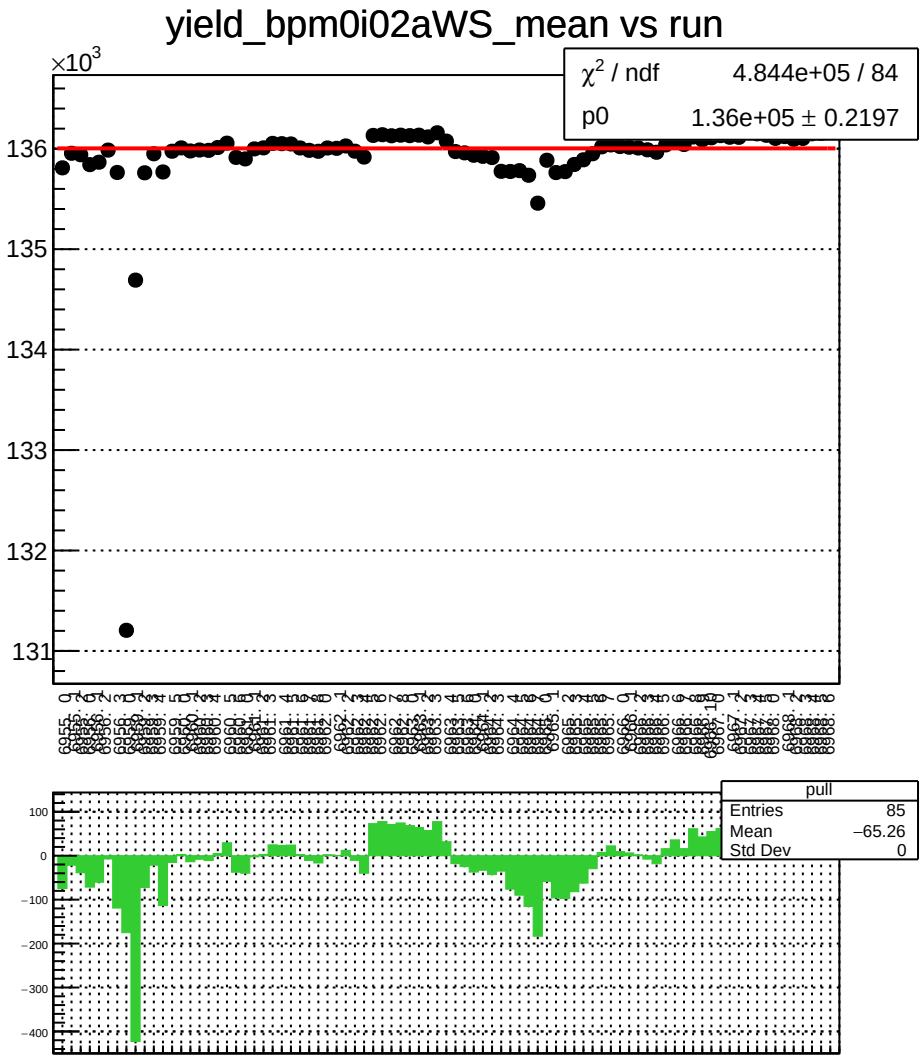

pull1D
Entries 85
Mean −3.646
Std Dev 4.29
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

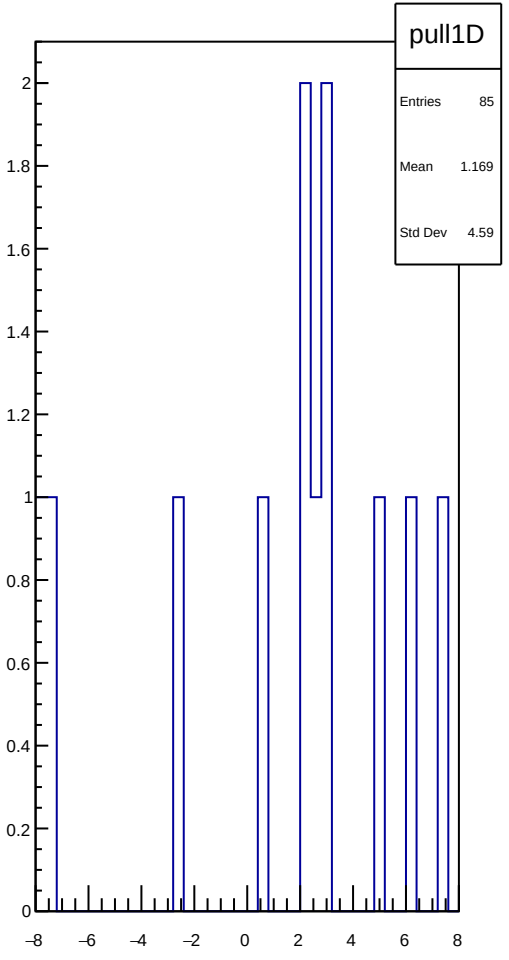

yield_bpm0r05WS_rms vs run
χ² / ndf 5.524e+04 / 84
p0 334 ± 0.2651
3000
2500
2000
1500
1000
500

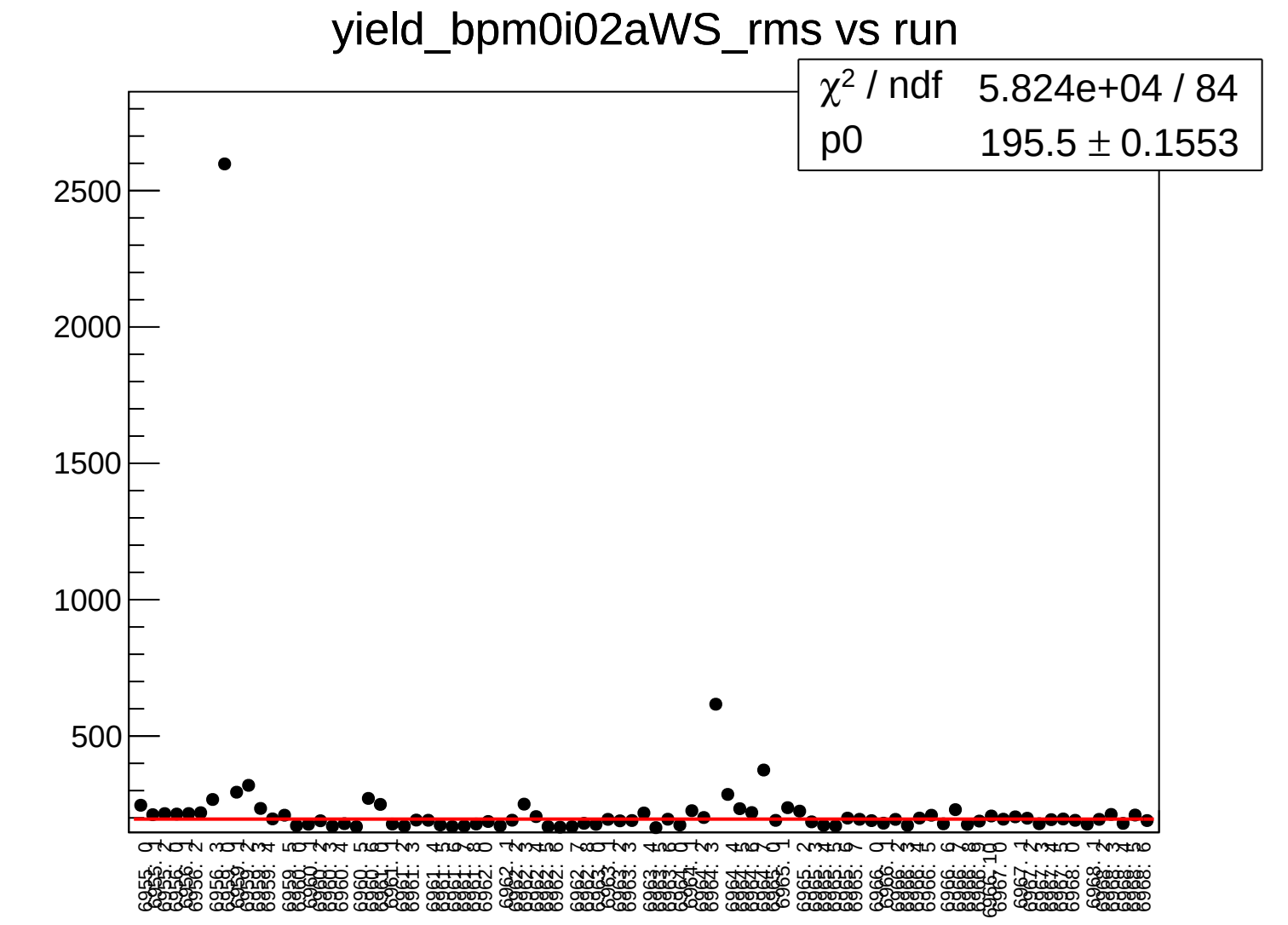

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.176e+06 / 84
p0 1.455e+05 ± 0.2095
146
145
144
143
142
pull
Entries 85
Mean −294.9
Std Dev 0
300
200
100
0
−100
−200
−300

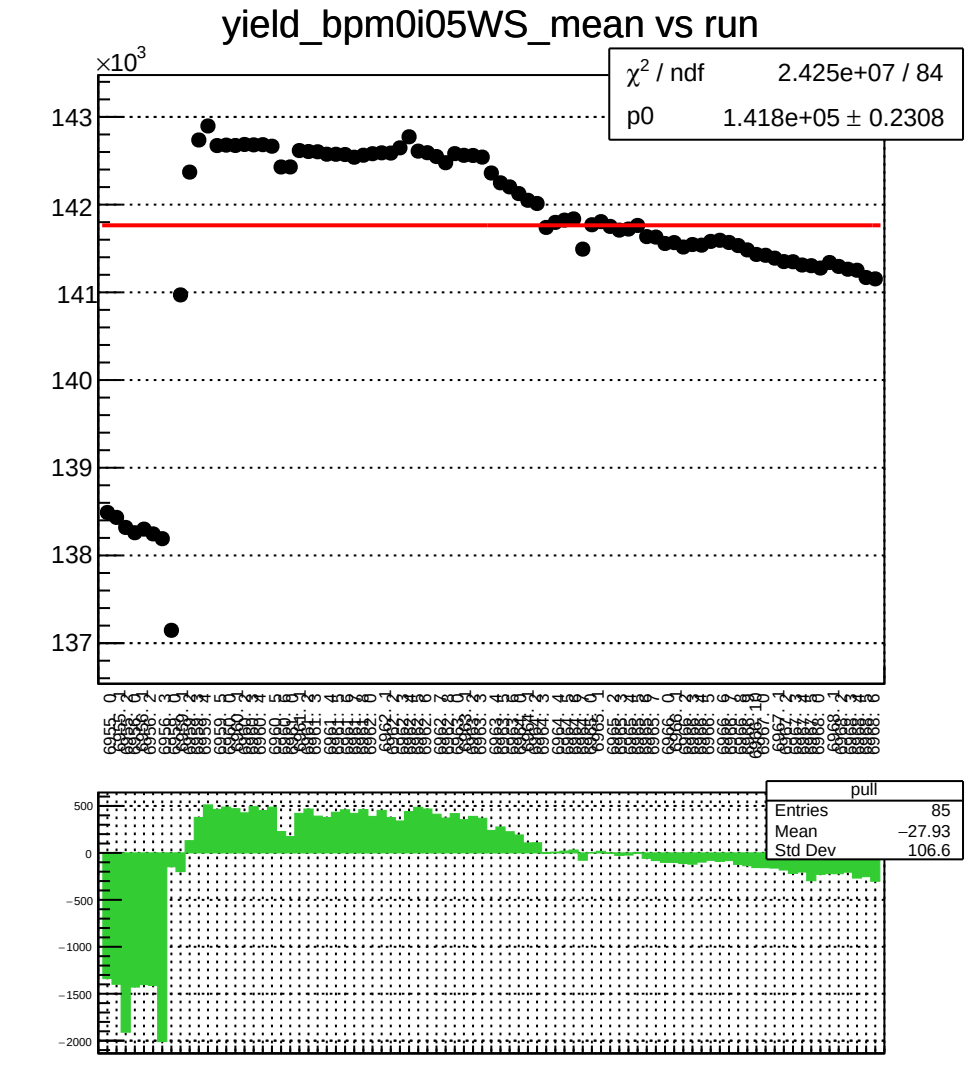

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

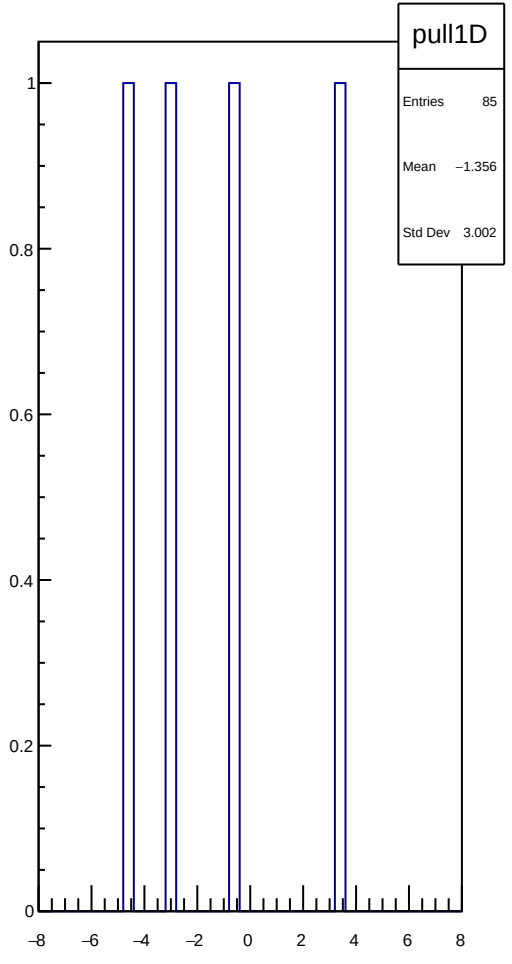

yield_bpm0i02WS_rms vs run
χ² / ndf 4.228e+04 / 84
p0 187.4 ± 0.1481
2500
2000
1500
1000
500

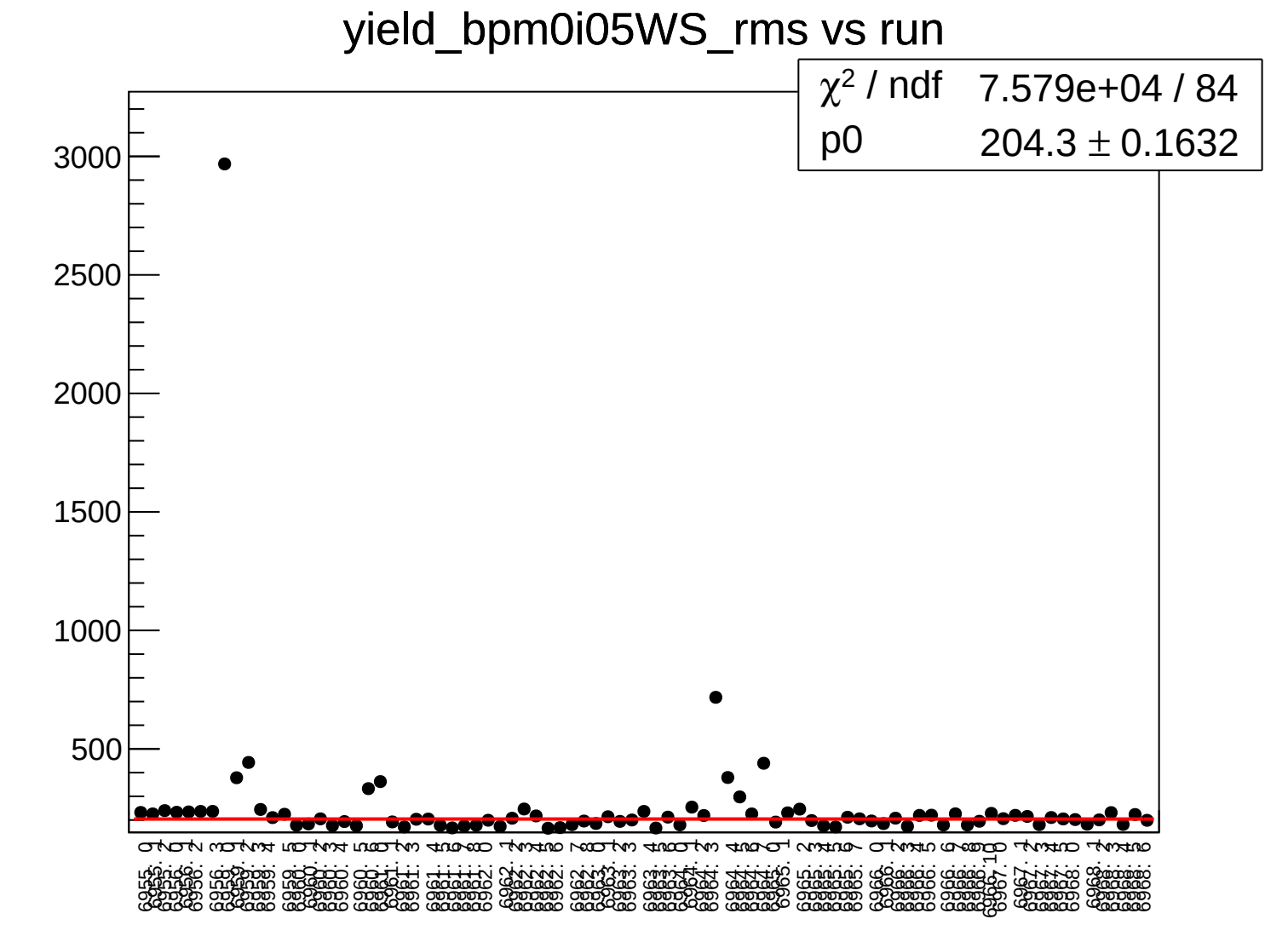

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 4.844e+05 / 84
p0 1.36e+05 ± 0.2197
136
135
134
133
132
131
pull
Entries 85
Mean −65.26
Std Dev 0
100
0
−100
−200
−300
−400

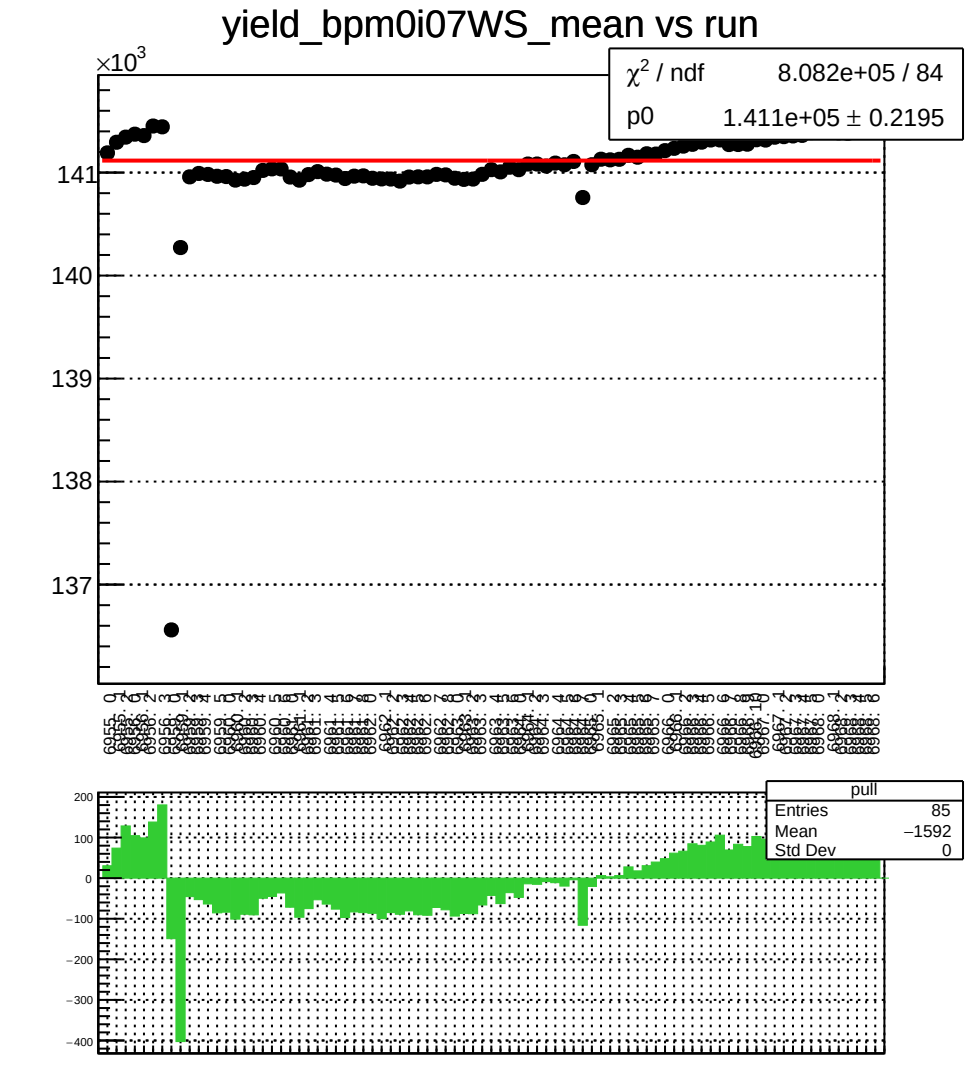

pull1D
Entries 85
Mean 1.169
Std Dev 4.59
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

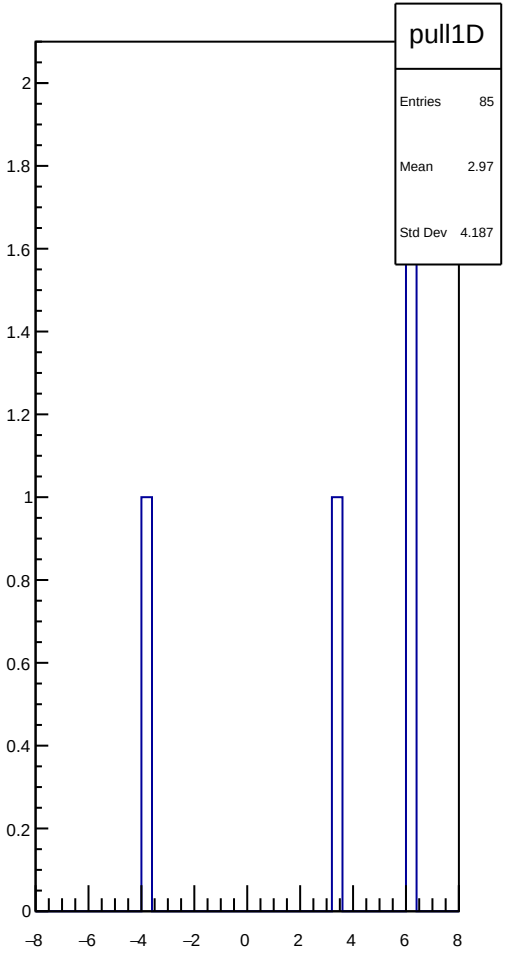

yield_bpm0i02aWS_rms vs run
χ² / ndf 5.824e+04 / 84
p0 195.5 ± 0.1553
2500
2000
1500
1000
500

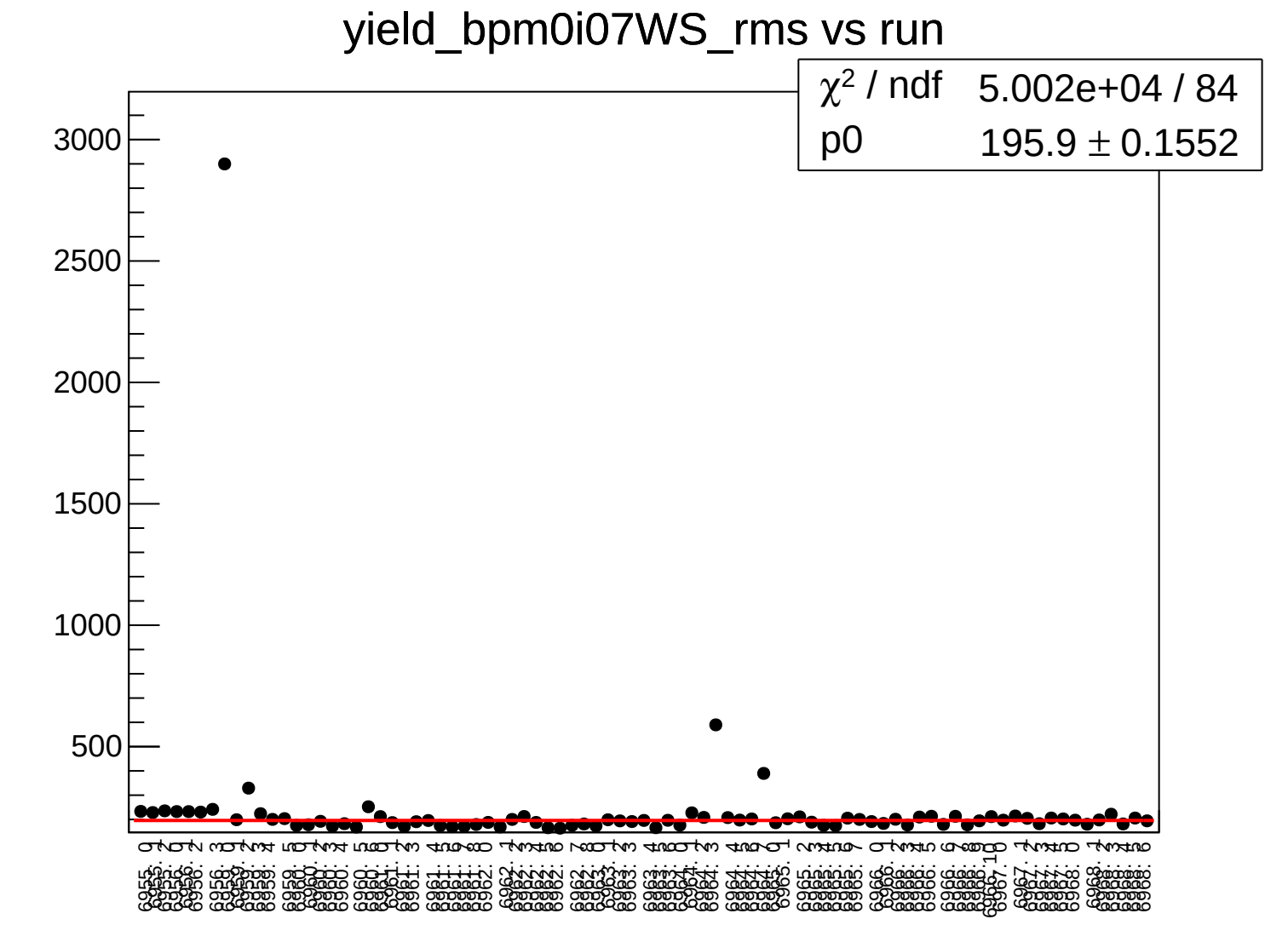

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 2.425e+07 / 84
p0 1.418e+05 ± 0.2308
143
142
141
140
139
138
137
pull
Entries 85
Mean −27.93
Std Dev 106.6
500
0
−500
−1000
−1500
−2000

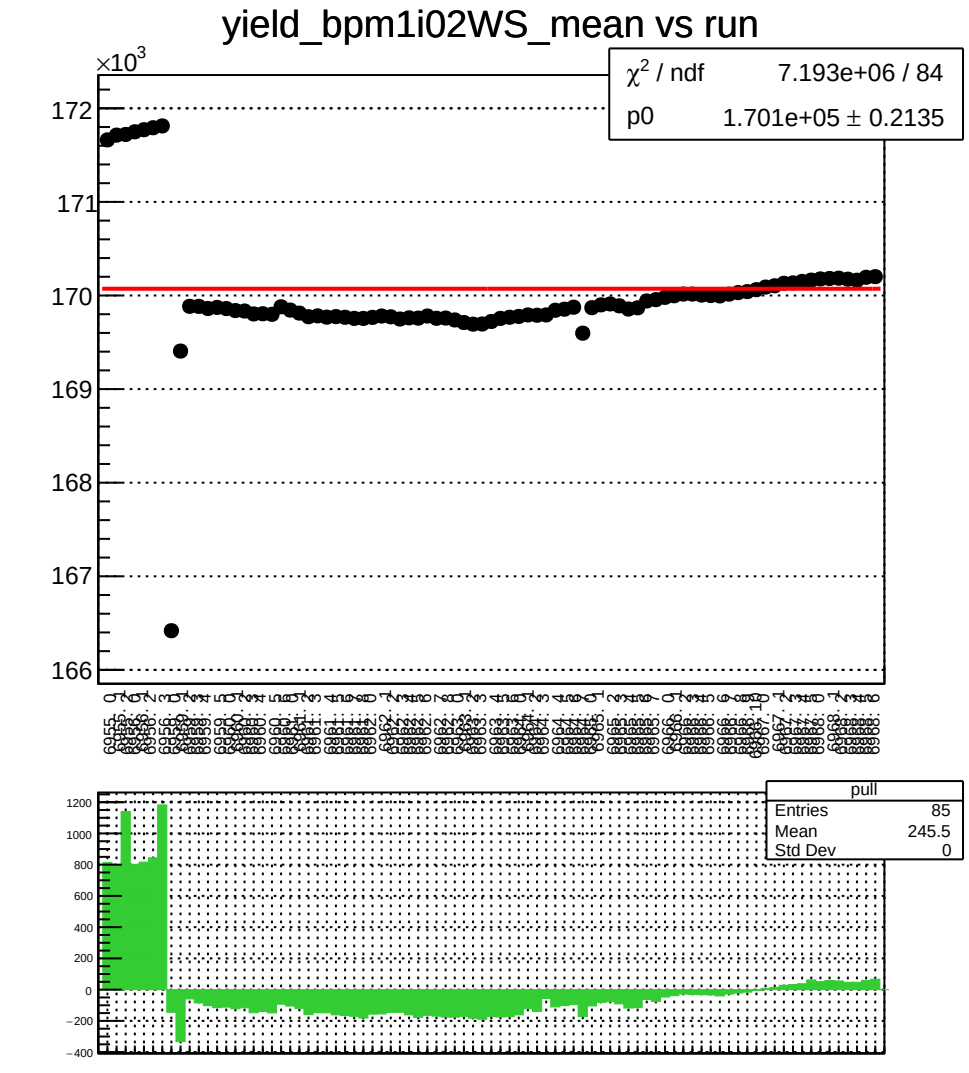

pull1D
Entries 85
Mean −1.356
Std Dev 3.002
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

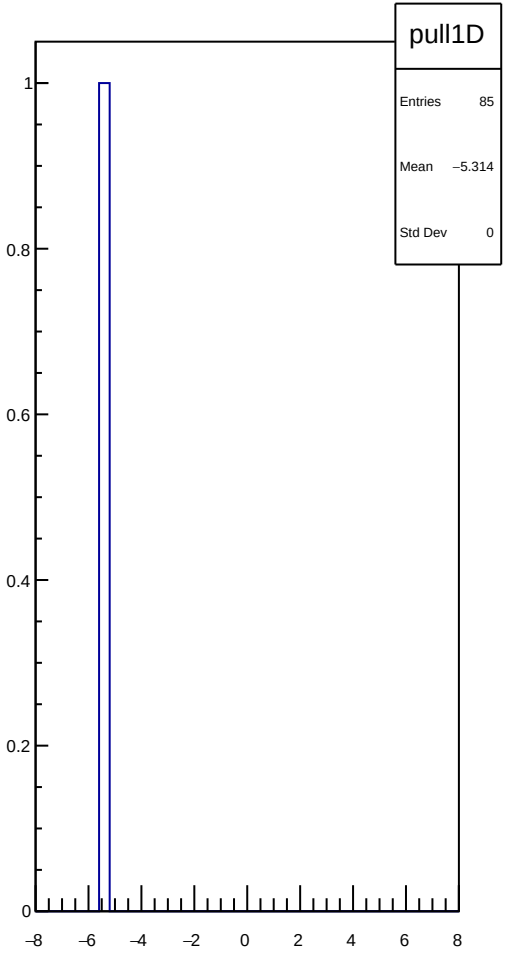

yield_bpm0i05WS_rms vs run
χ² / ndf 7.579e+04 / 84
p0 204.3 ± 0.1632
3000
2500
2000
1500
1000
500

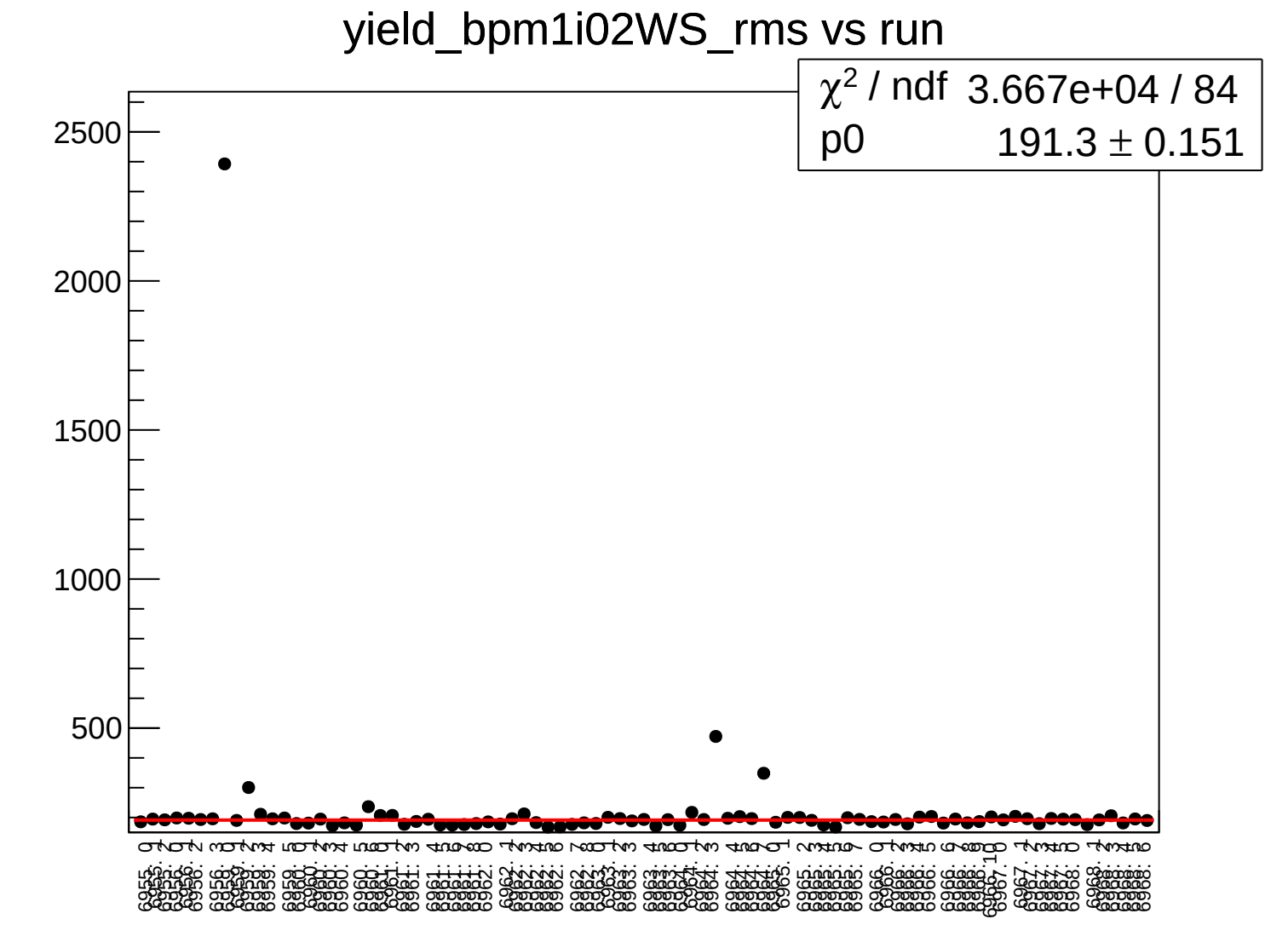

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 8.082e+05 / 84
p0 1.411e+05 ± 0.2195
141
140
139
138
137
pull
Entries 85
Mean −1592
Std Dev 0
200
100
0
−100
−200
−300
−400

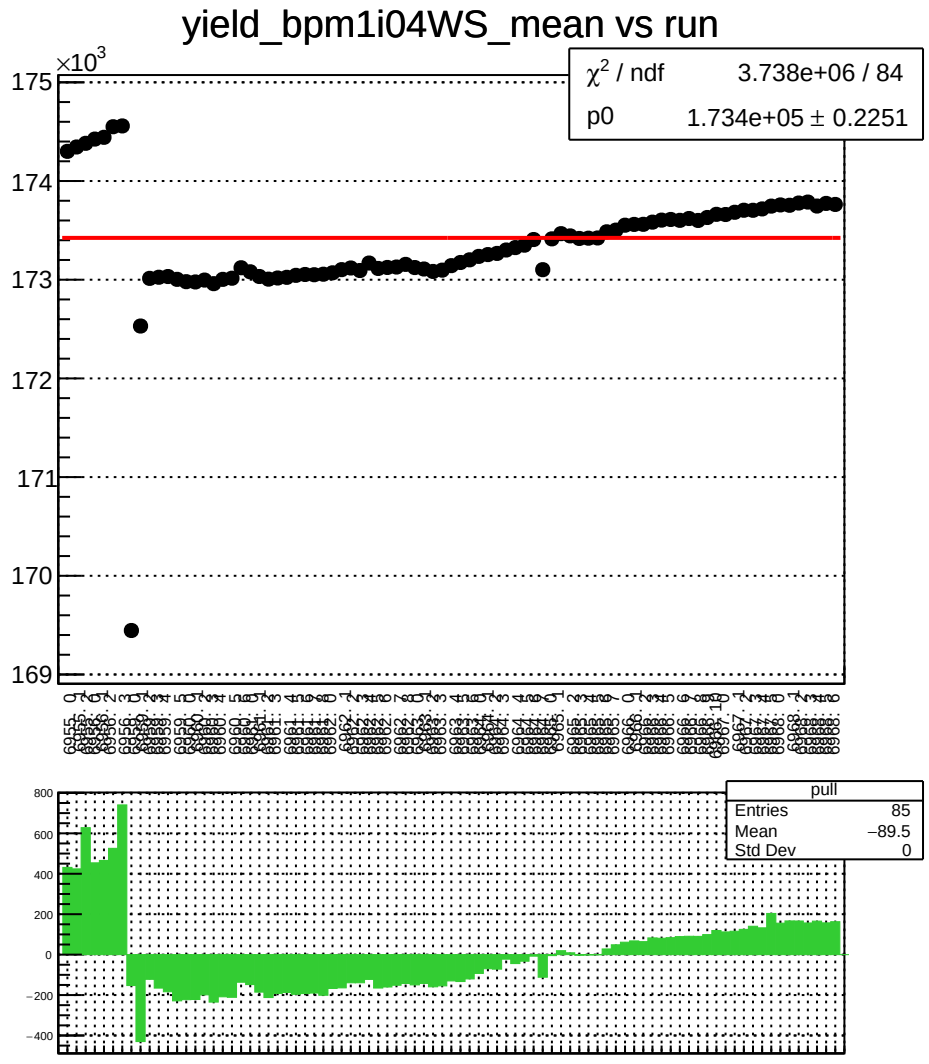

pull1D
Entries 85
Mean 2.97
Std Dev 4.187
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

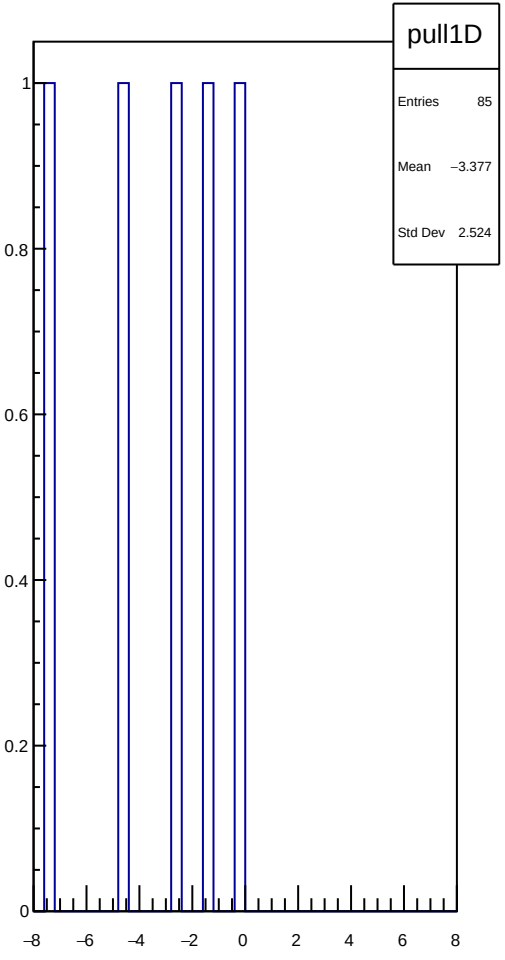

yield_bpm0i07WS_rms vs run
χ² / ndf 5.002e+04 / 84
p0 195.9 ± 0.1552
3000
2500
2000
1500
1000
500

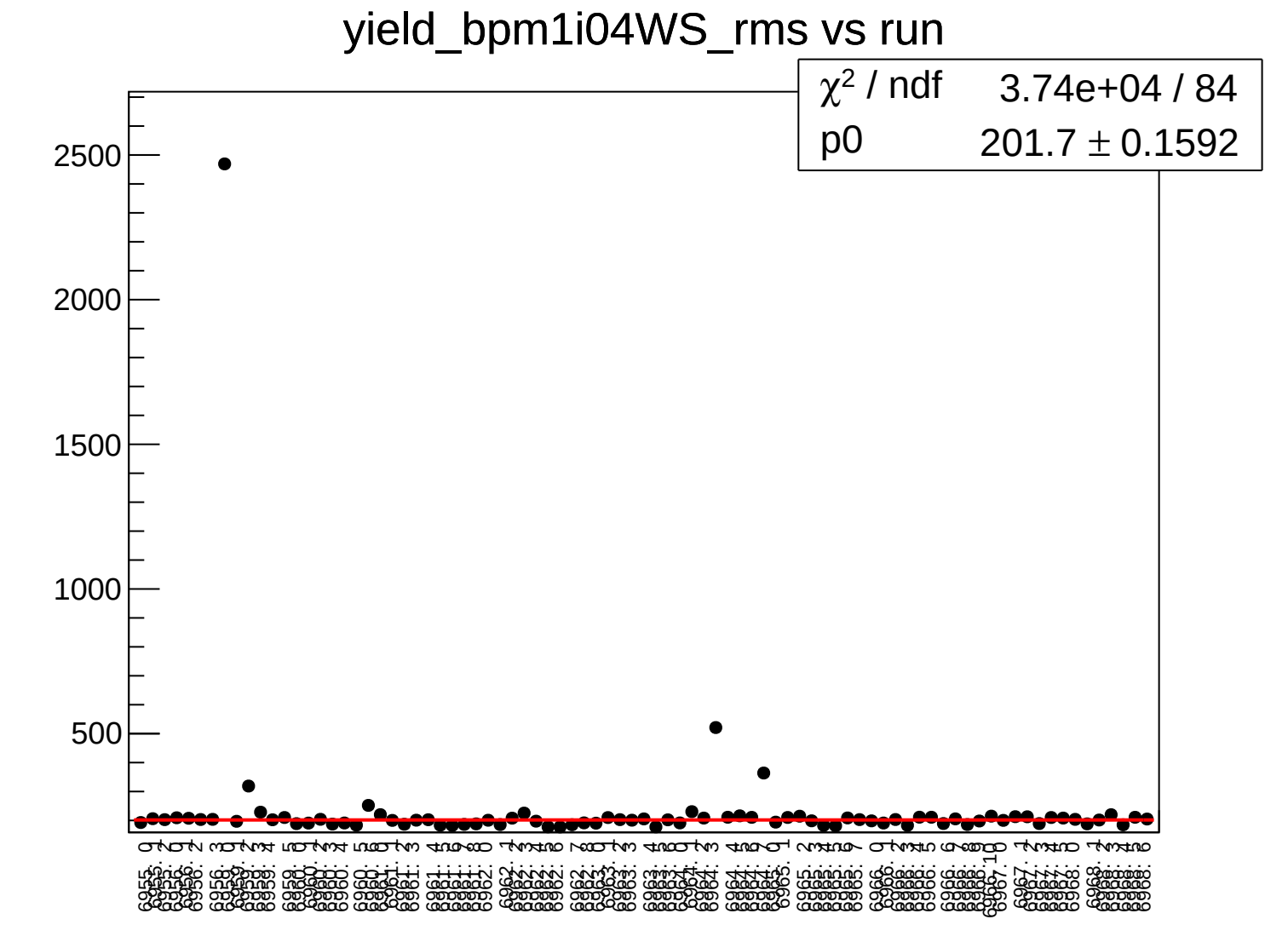

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 7.193e+06 / 84
p0 1.701e+05 ± 0.2135
172
171
170
169
168
167
166
pull
Entries 85
Mean 245.5
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

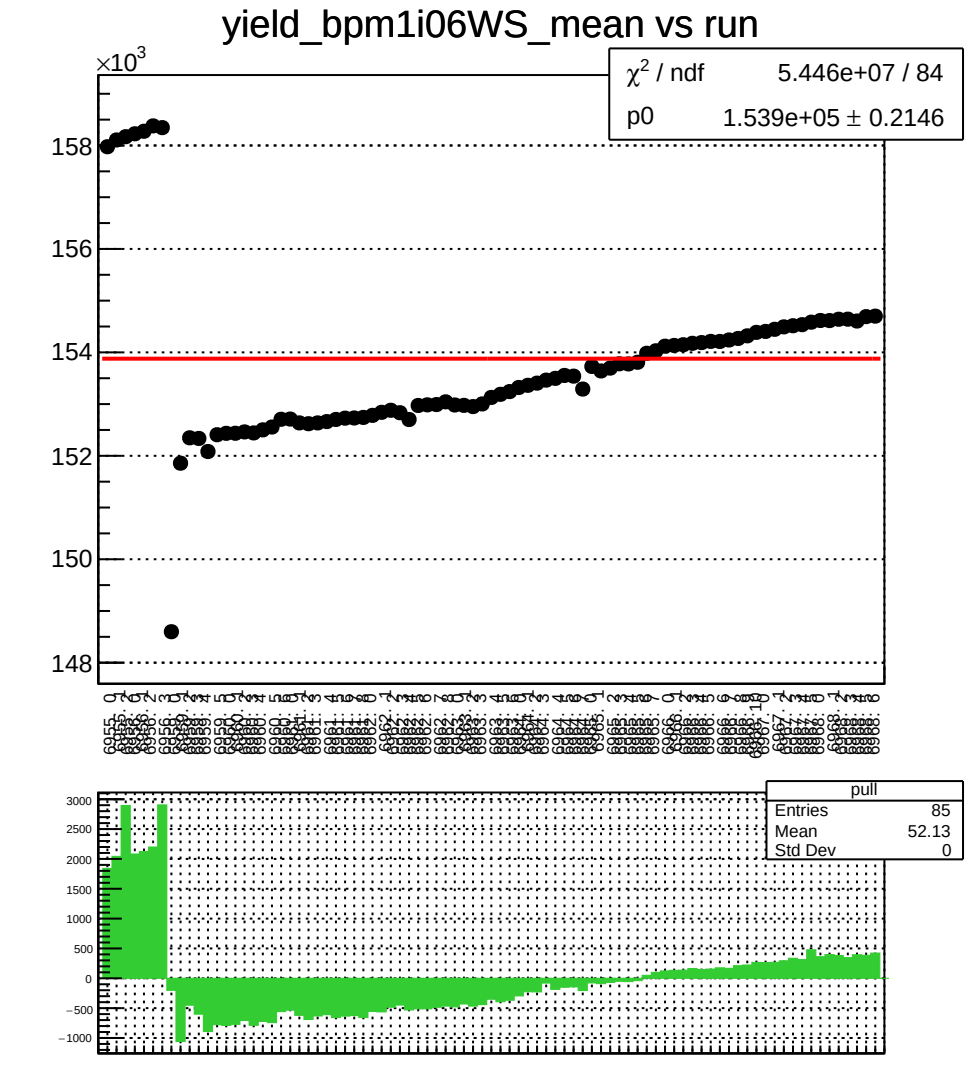

pull1D
Entries 85
Mean −5.314
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

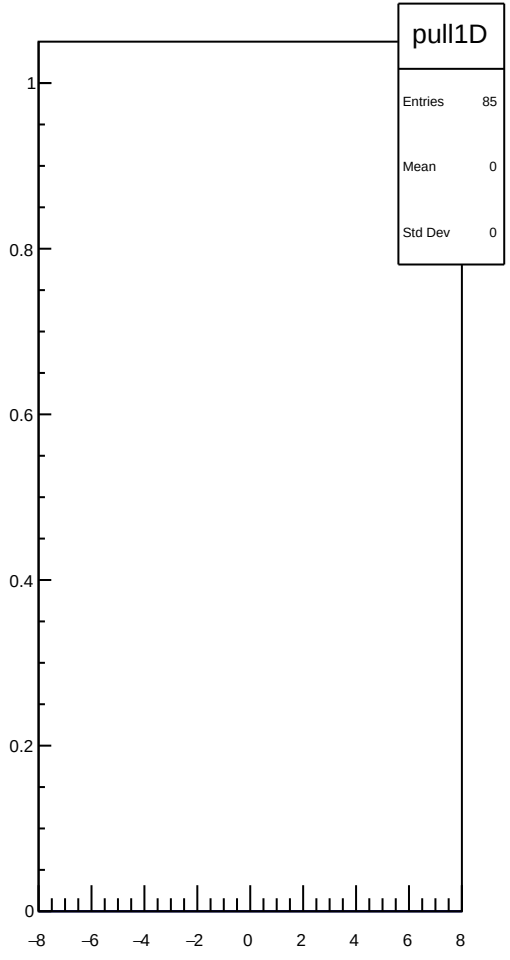

yield_bpm1i02WS_rms vs run
χ² / ndf 3.667e+04 / 84
p0 191.3 ± 0.151
2500
2000
1500
1000
500

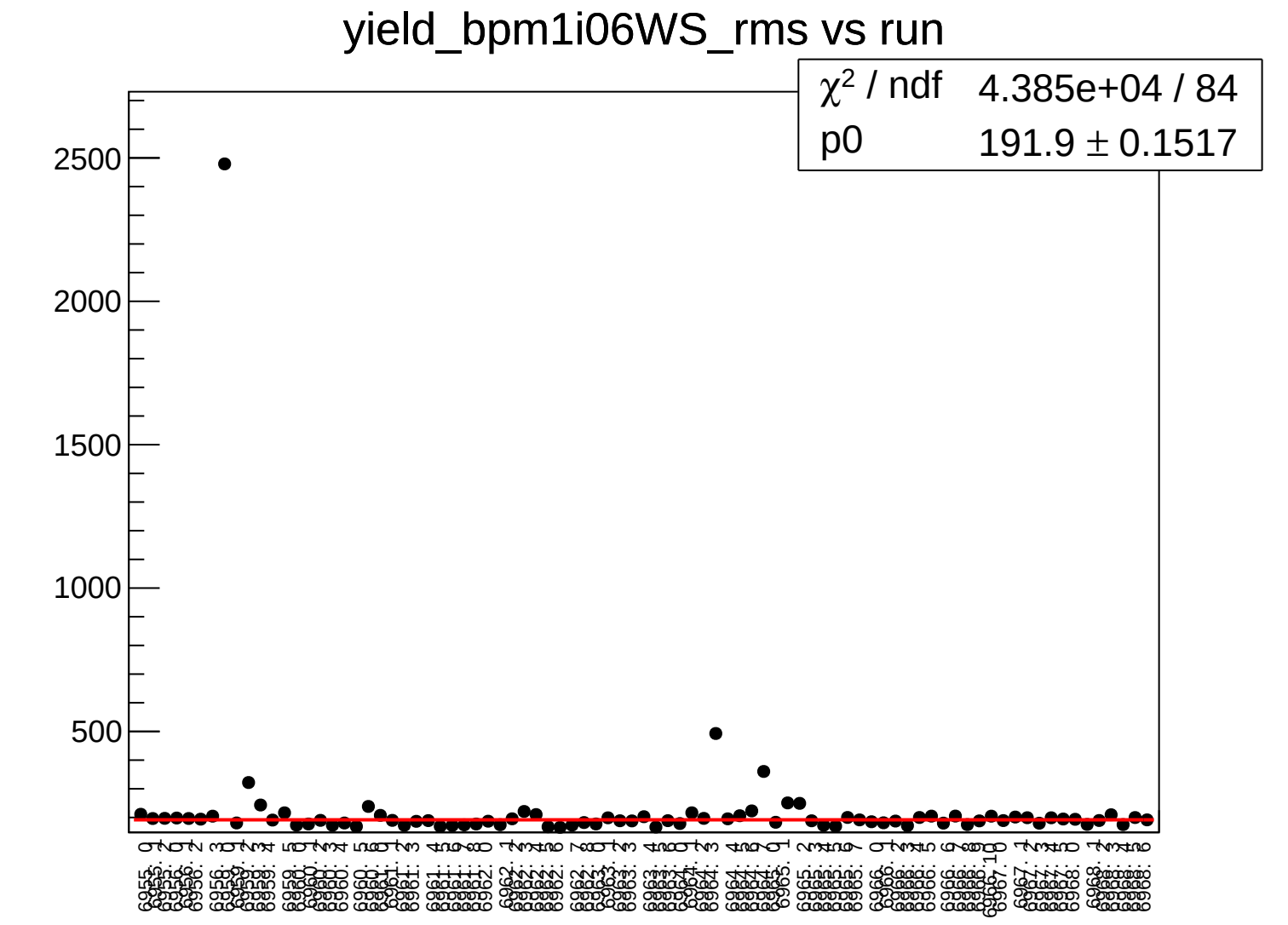

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 3.738e+06 / 84
p0 1.734e+05 ± 0.2251
175
174
173
172
171
170
169
pull
Entries 85
Mean −89.5
Std Dev 0
800
600
400
200
0
−200
−400

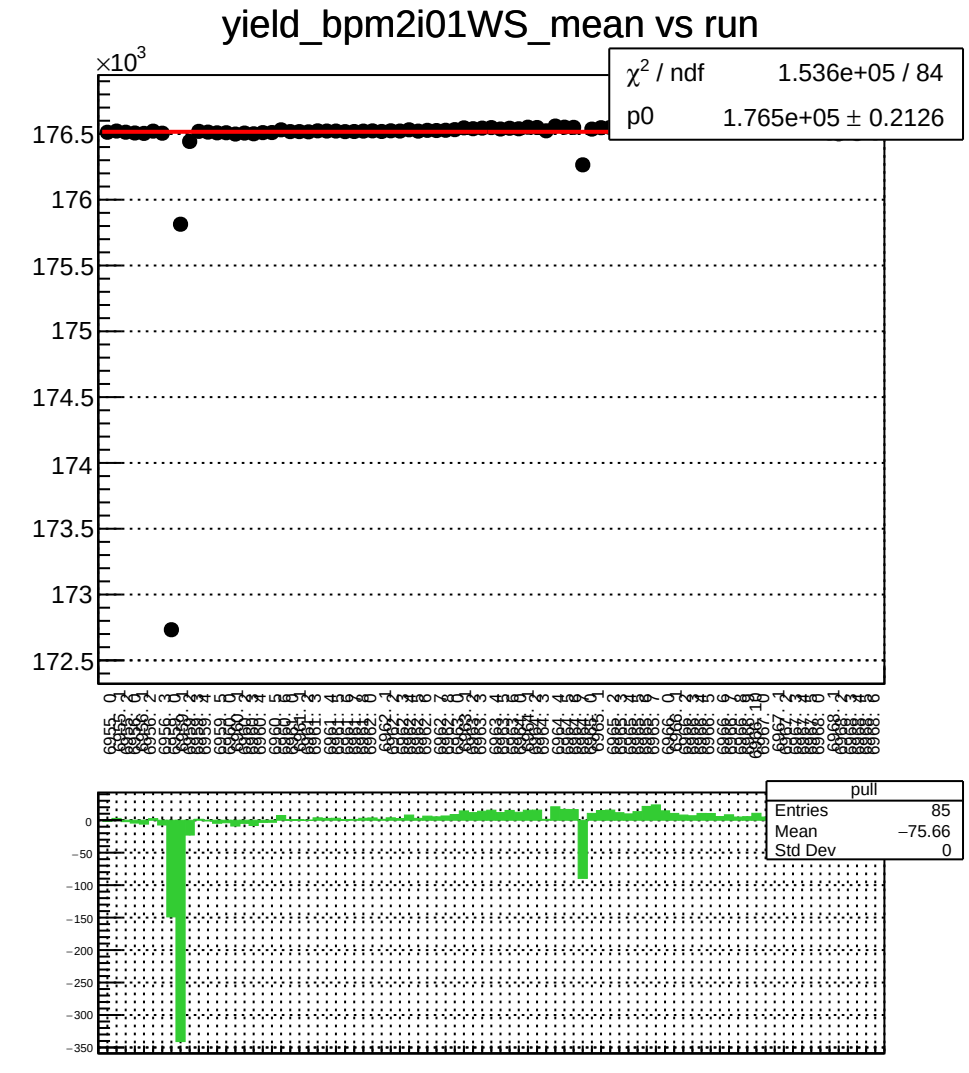

pull1D
Entries 85
Mean −3.377
Std Dev 2.524
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

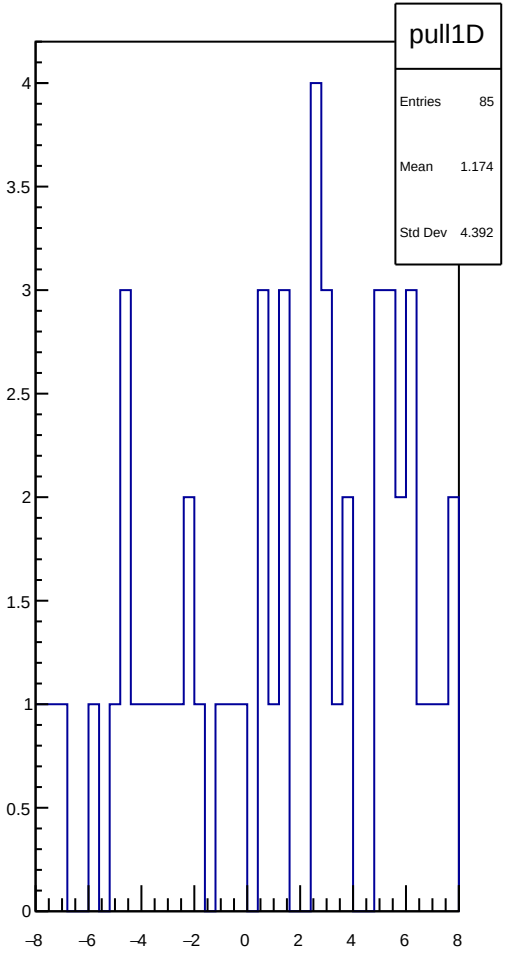

yield_bpm1i04WS_rms vs run
χ² / ndf 3.74e+04 / 84
p0 201.7 ± 0.1592
2500
2000
1500
1000
500

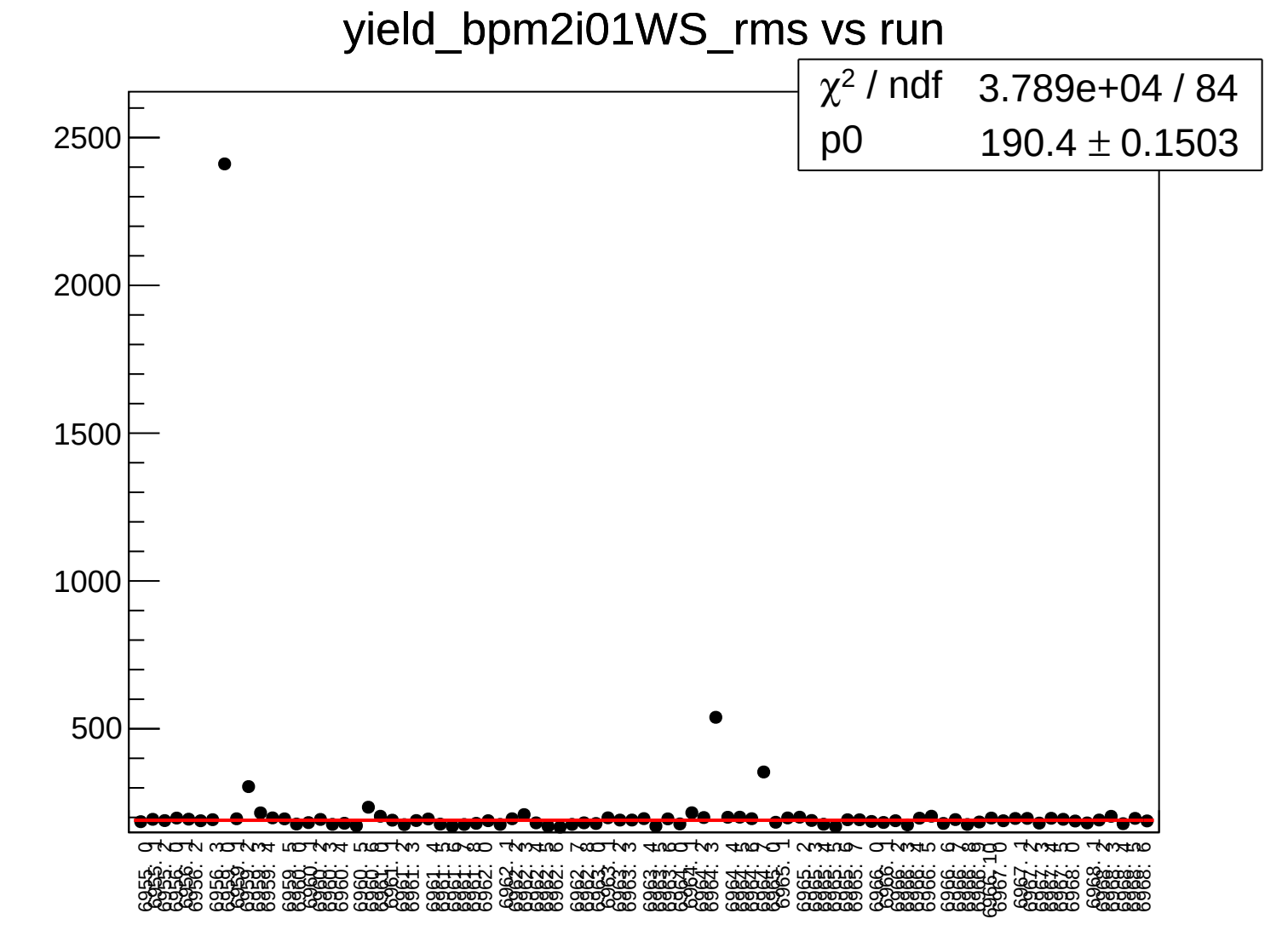

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 5.446e+07 / 84
p0 1.539e+05 ± 0.2146
158
156
154
152
150
148
pull
Entries 85
Mean 52.13
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000

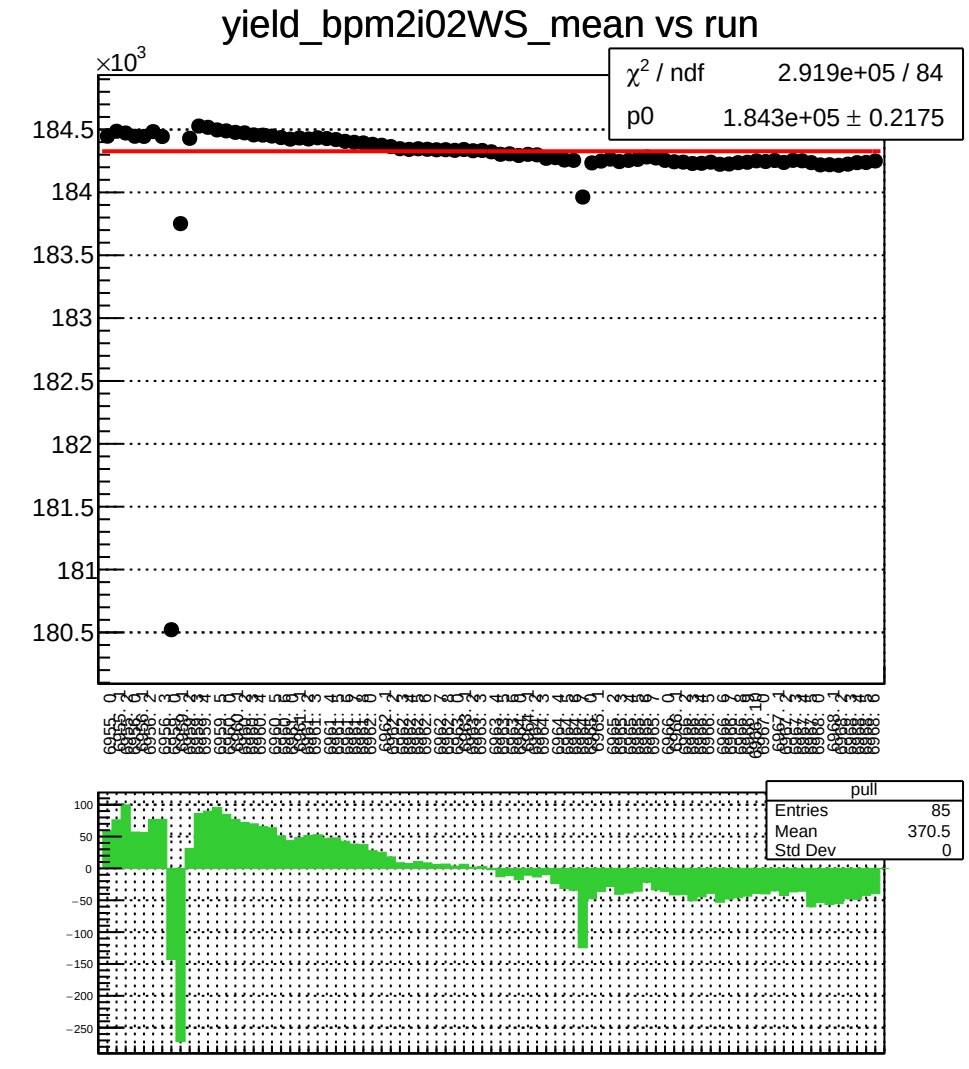

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

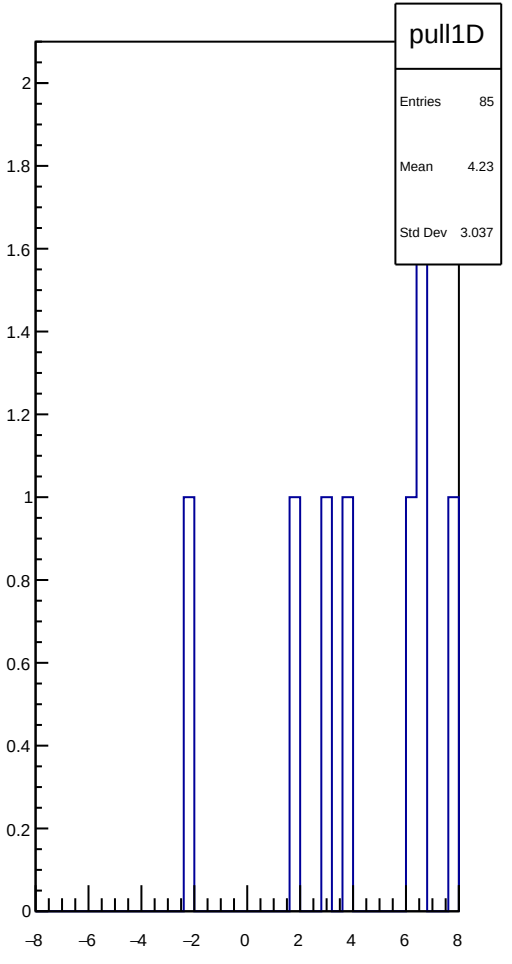

yield_bpm1i06WS_rms vs run
χ² / ndf 4.385e+04 / 84
p0 191.9 ± 0.1517
2500
2000
1500
1000
500

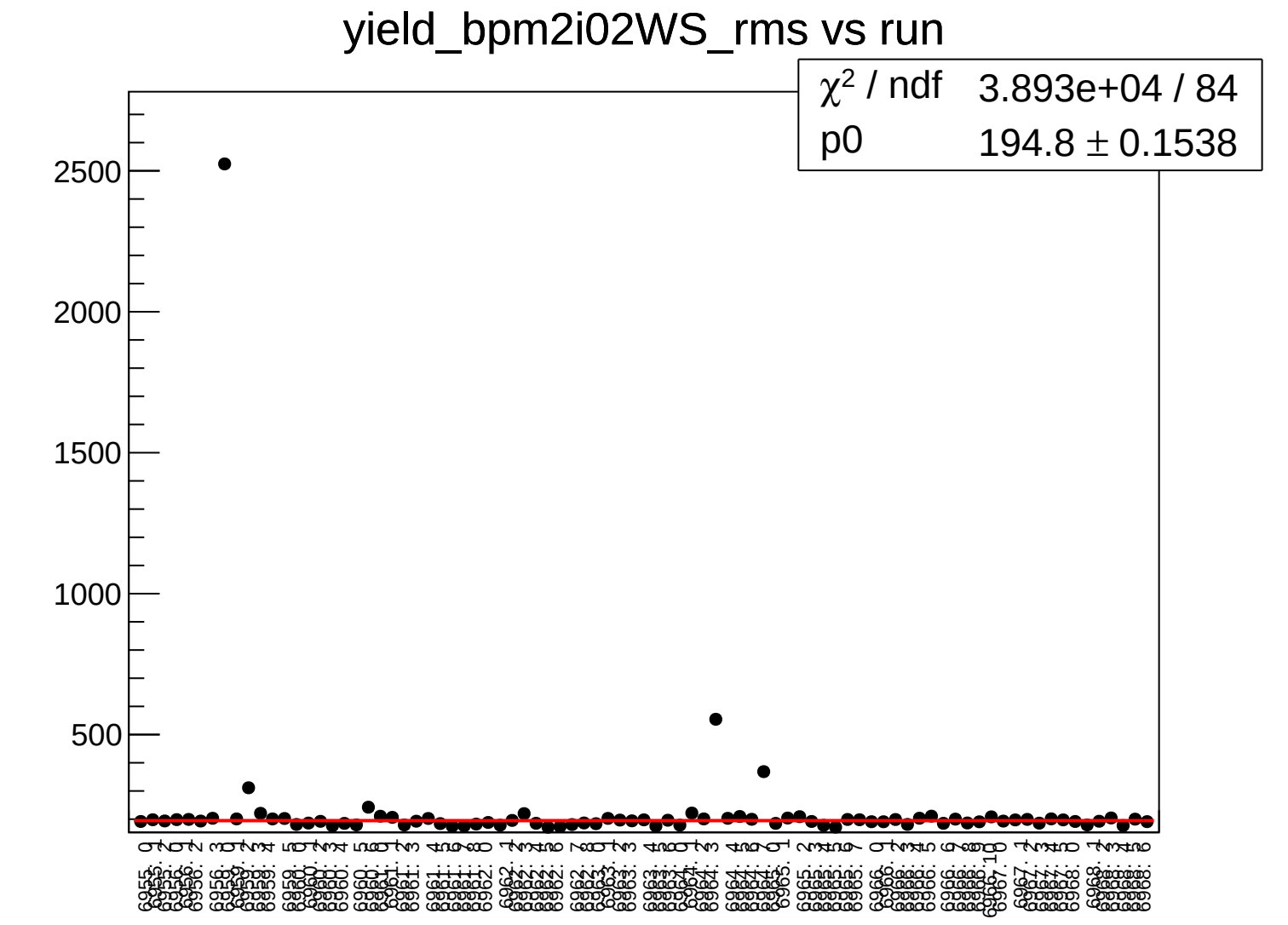

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.536e+05 / 84
p0 1.765e+05 ± 0.2126
176.5
176
175.5
175
174.5
174
173.5
173
172.5
pull
Entries 85
Mean −75.66
Std Dev 0
0
−50
−100
−150
−200
−250
−300
−350

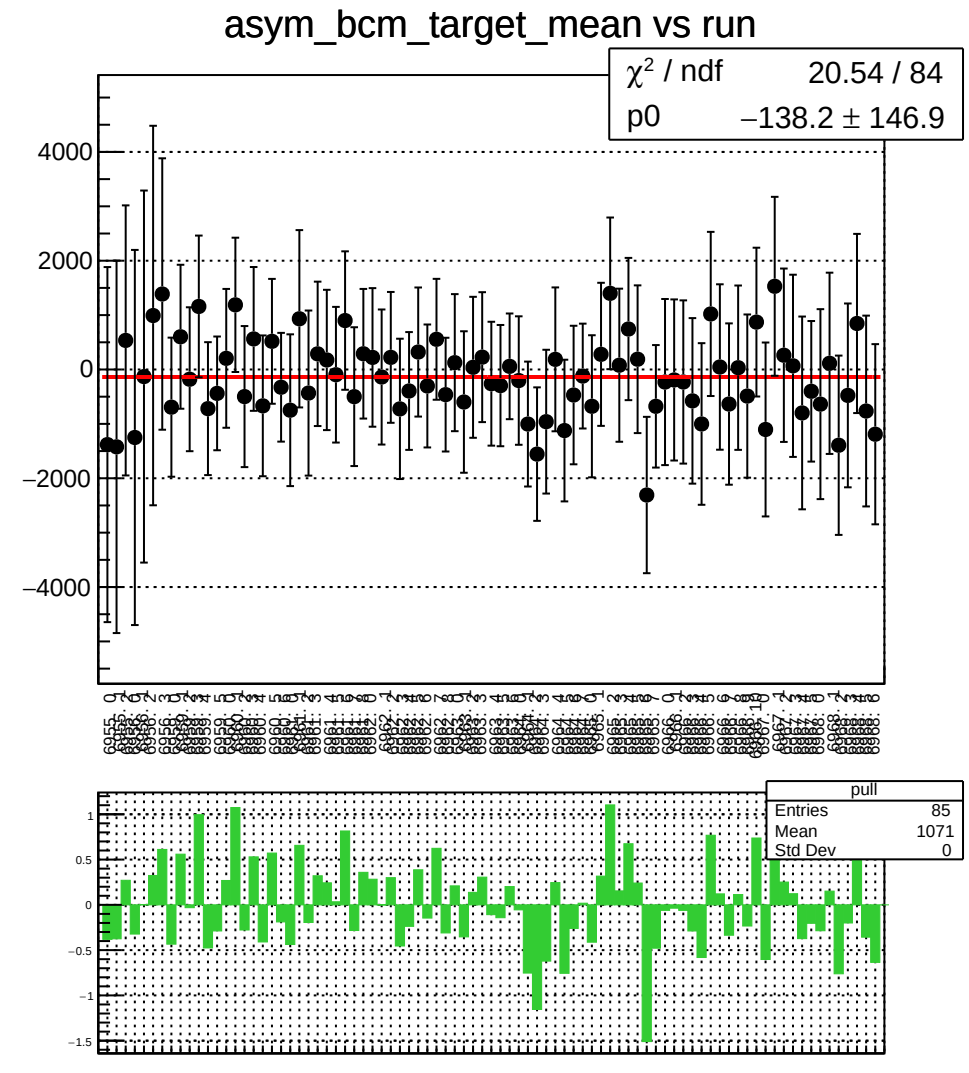

pull1D
Entries 85
Mean 1.174
Std Dev 4.392
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

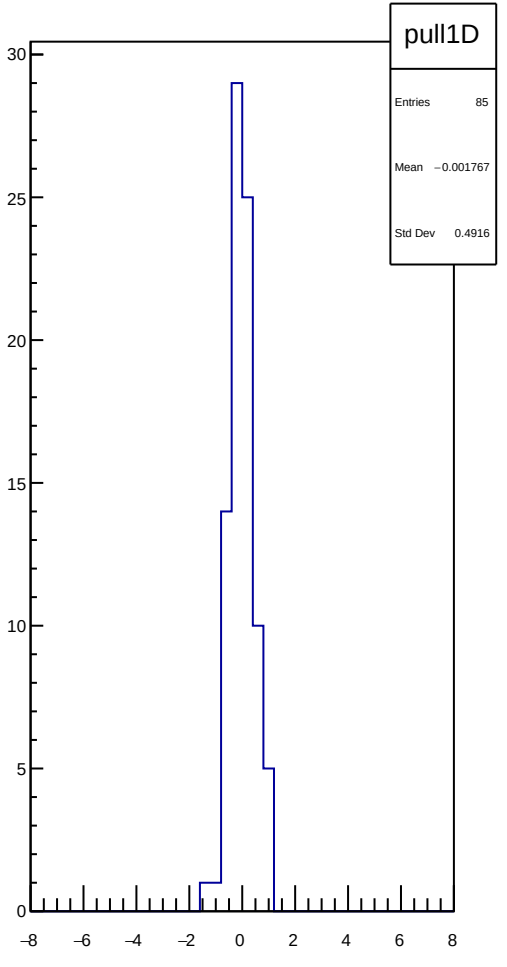

yield_bpm2i01WS_rms vs run
χ² / ndf 3.789e+04 / 84
p0 190.4 ± 0.1503
2500
2000
1500
1000
500

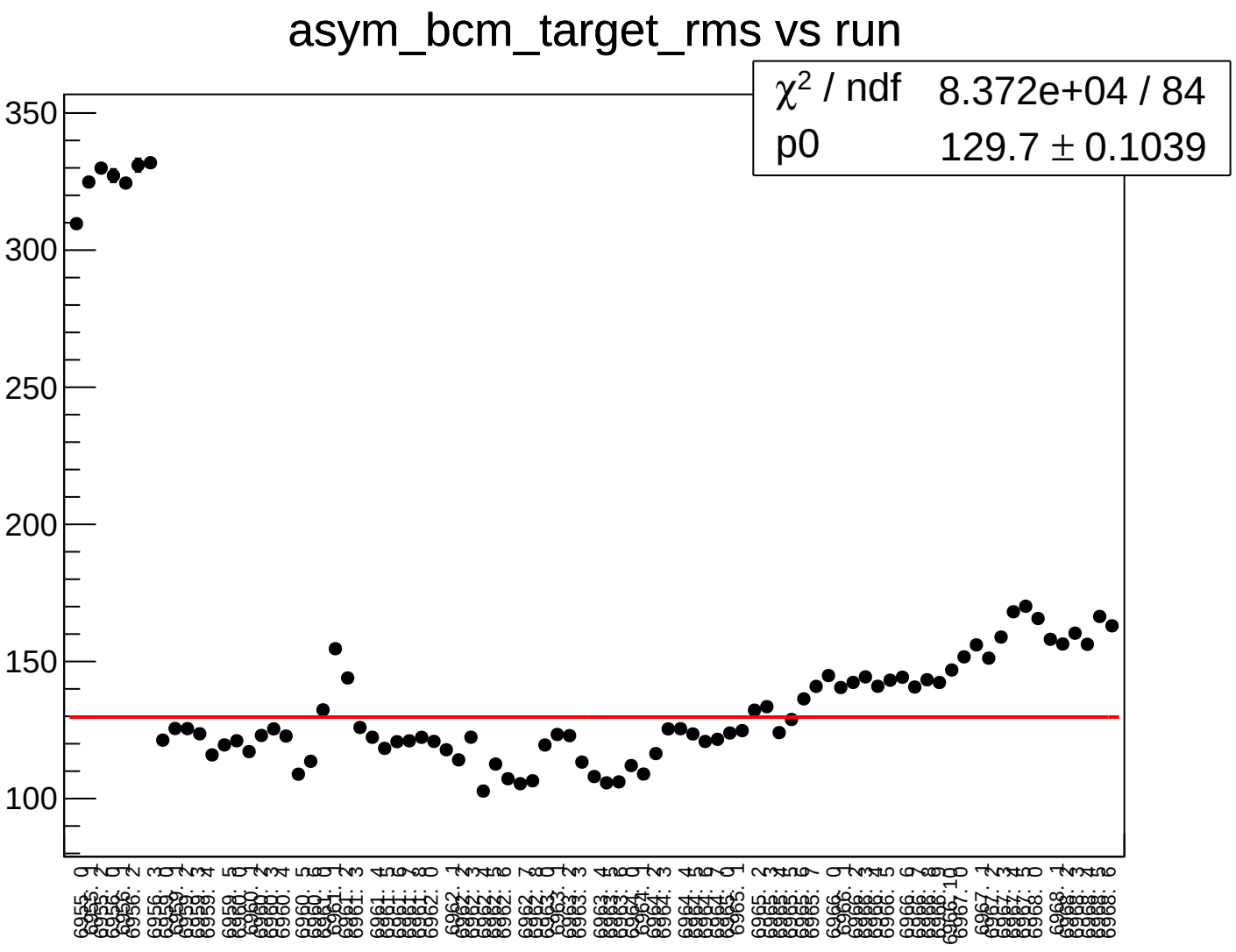

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.919e+05 / 84
p0 1.843e+05 ± 0.2175
184.5
184
183.5
183
182.5
182
181.5
181
180.5
pull
Entries 85
Mean 370.5
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

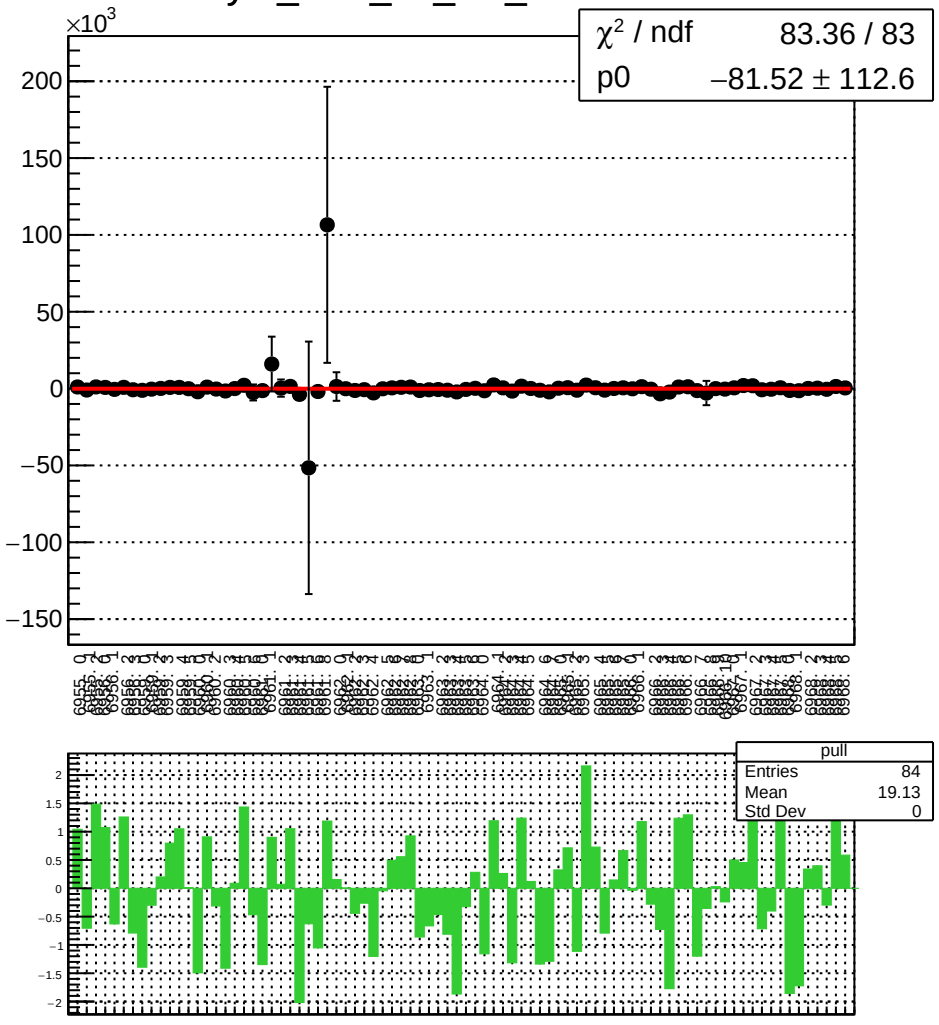

pull1D
Entries 85
Mean 4.23
Std Dev 3.037
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm2i02WS_rms vs run
χ² / ndf 3.893e+04 / 84
p0 194.8 ± 0.1538
2500
2000
1500
1000
500

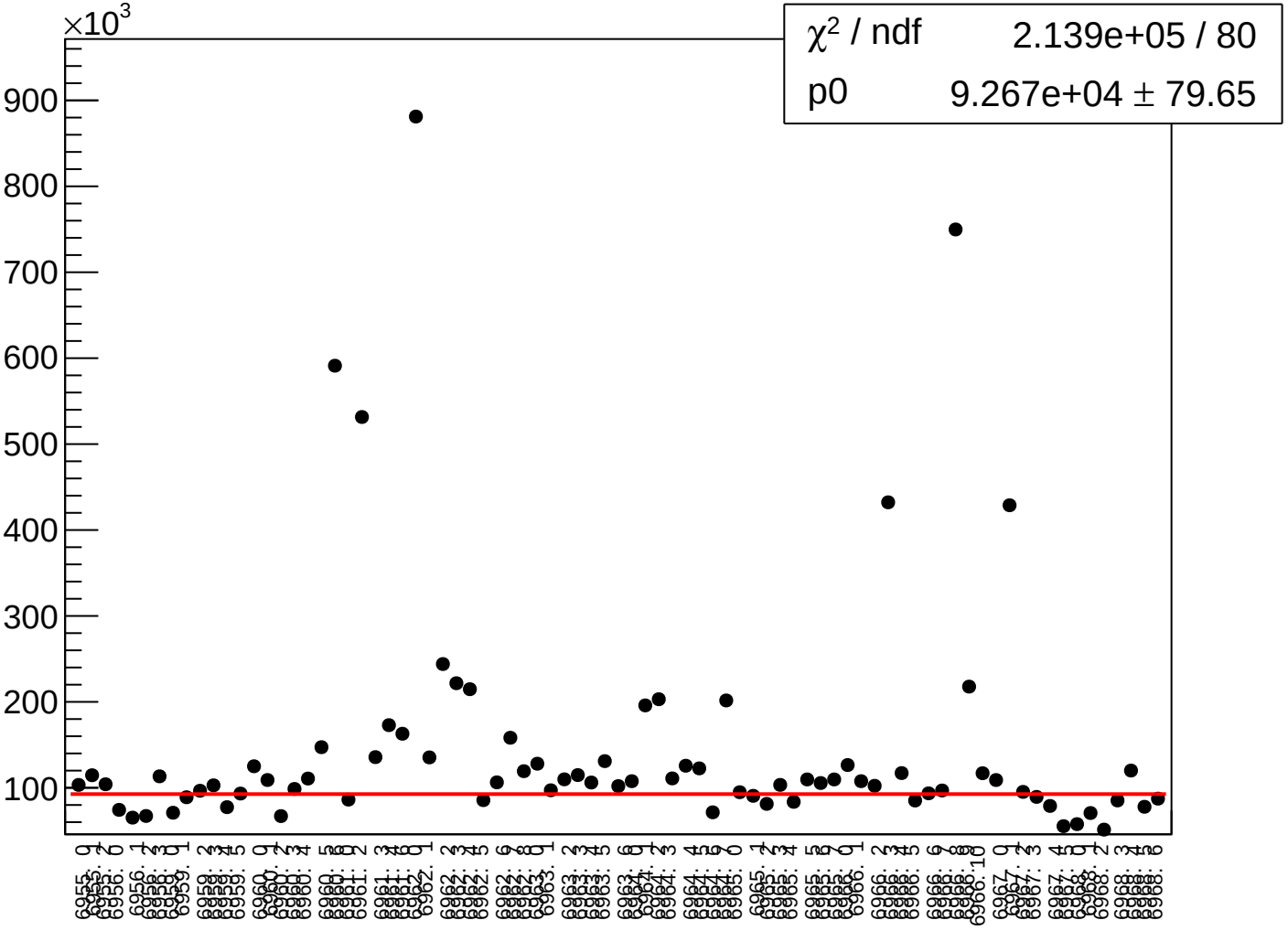

asym_bcm_target_mean vs run
χ² / ndf 20.54 / 84
p0 −138.2 ± 146.9
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 1071
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

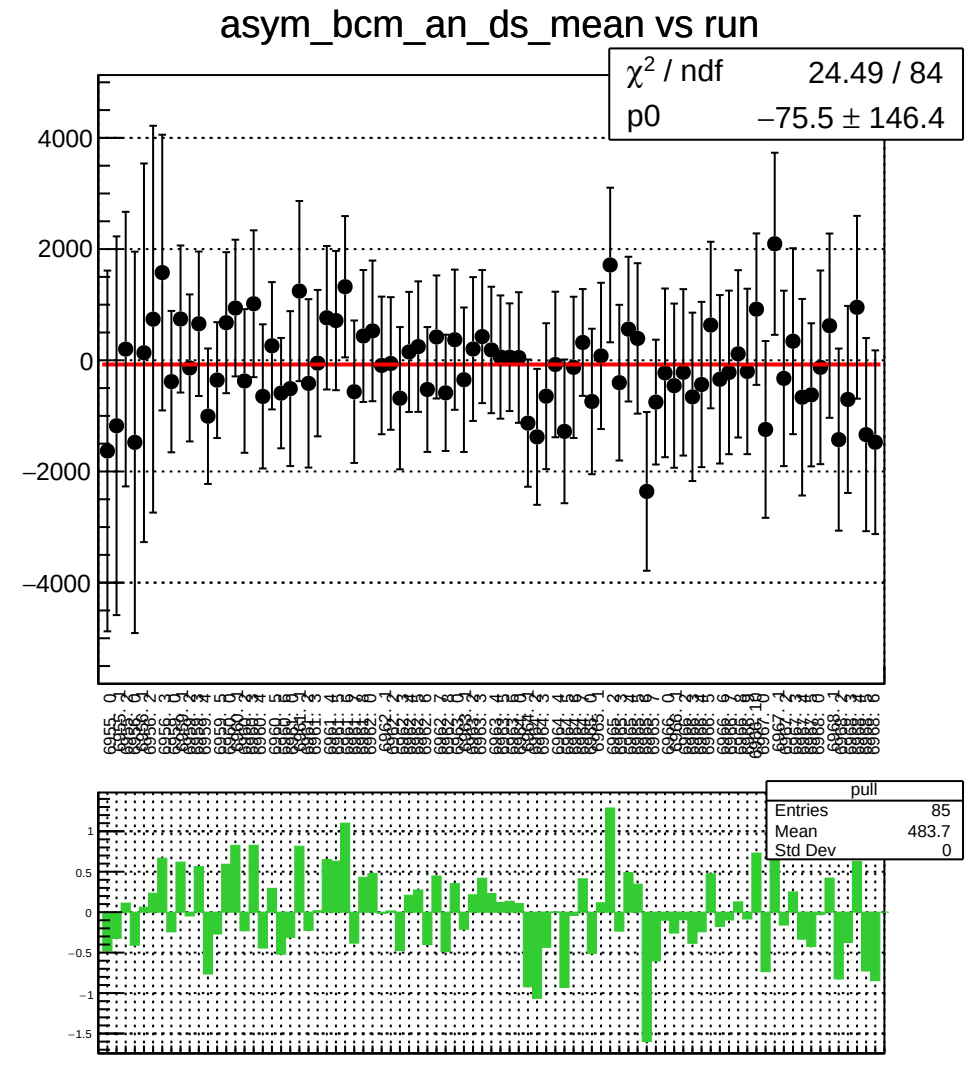

pull1D
Entries 85
Mean −0.001767
Std Dev 0.4916
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

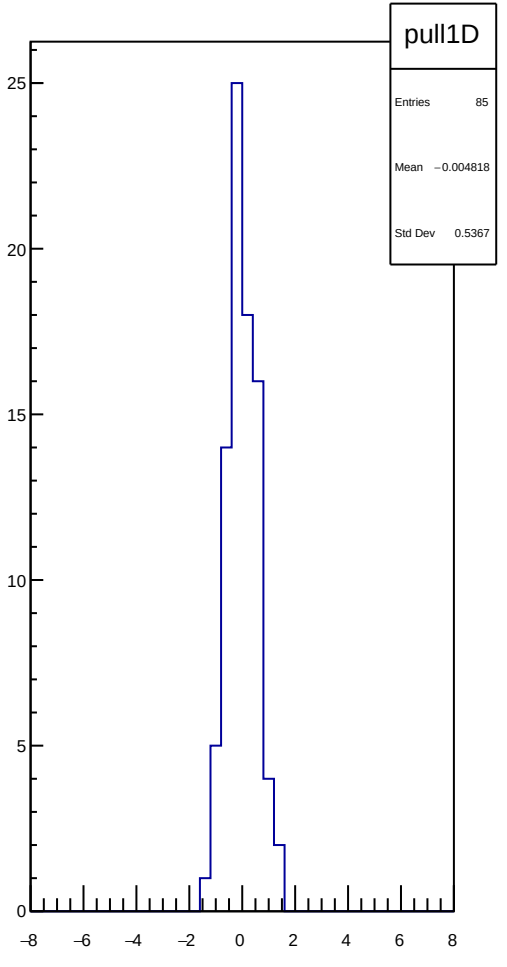

asym_bcm_target_rms vs run
χ² / ndf 8.372e+04 / 84
p0 129.7 ± 0.1039
350
300
250
200
150
100

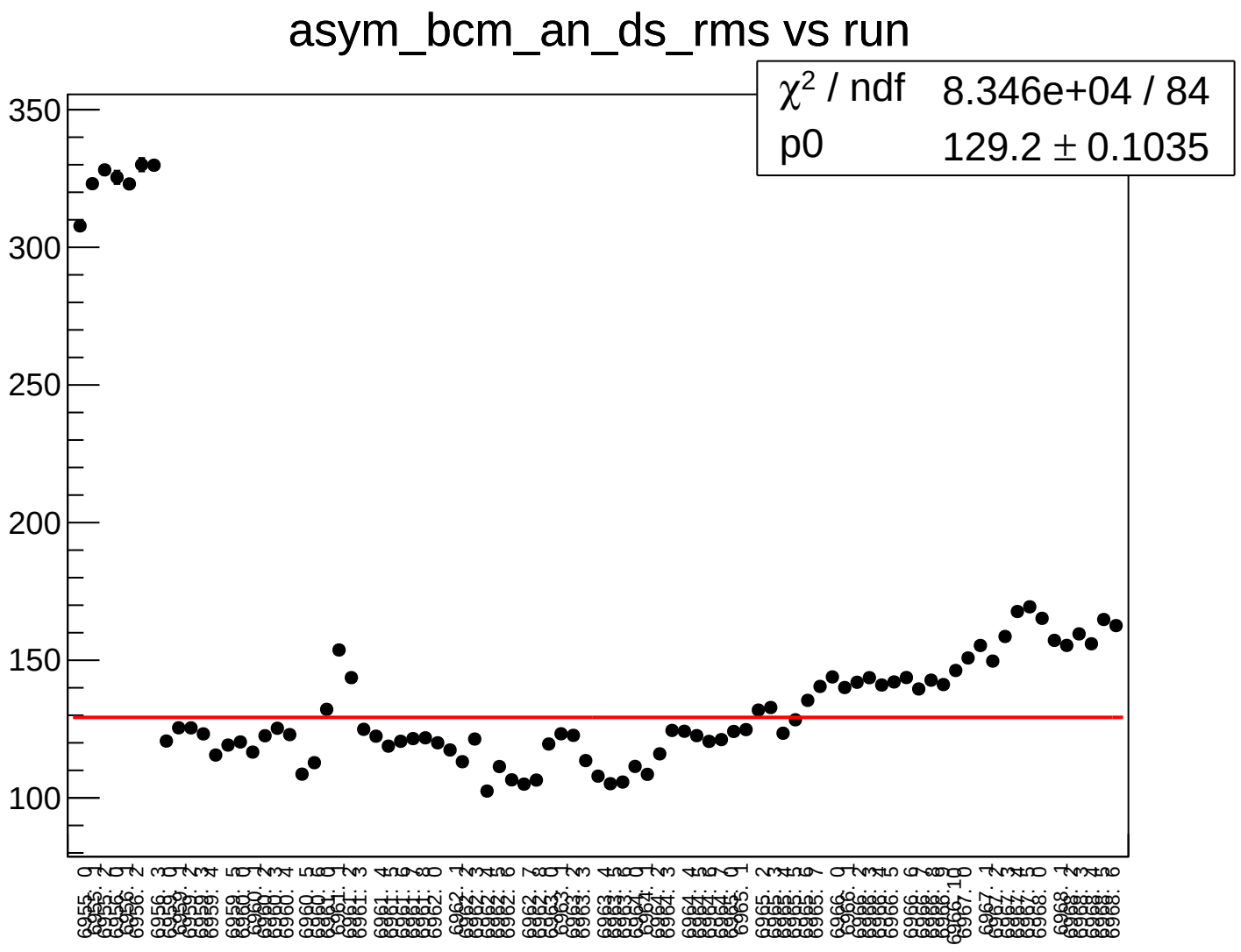

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 83.36 / 83
p0 −81.52 ± 112.6
pull
Entries 84
Mean 19.13
Std Dev 0
pull1D
Entries 84
Mean −0.028
Std Dev 0.9958

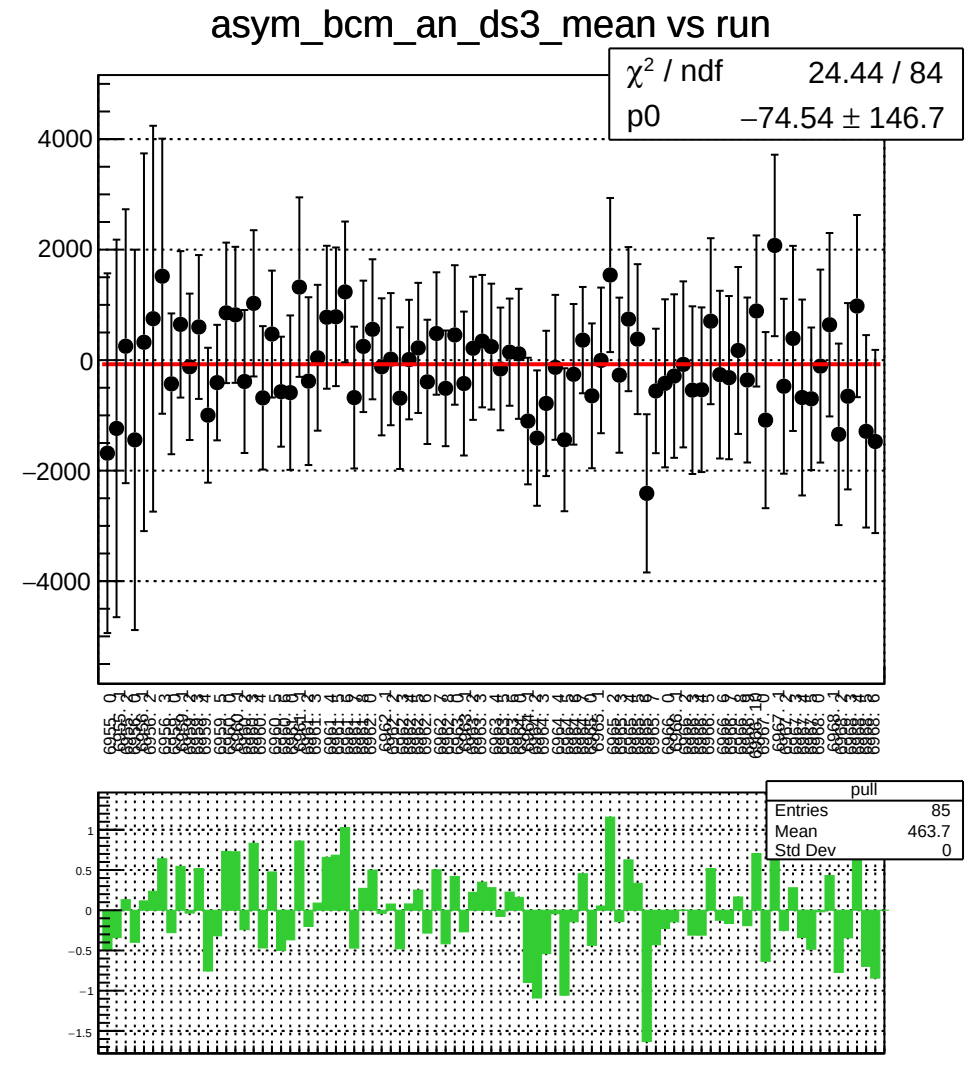
# asym_bcm_an_diff_rms vs run

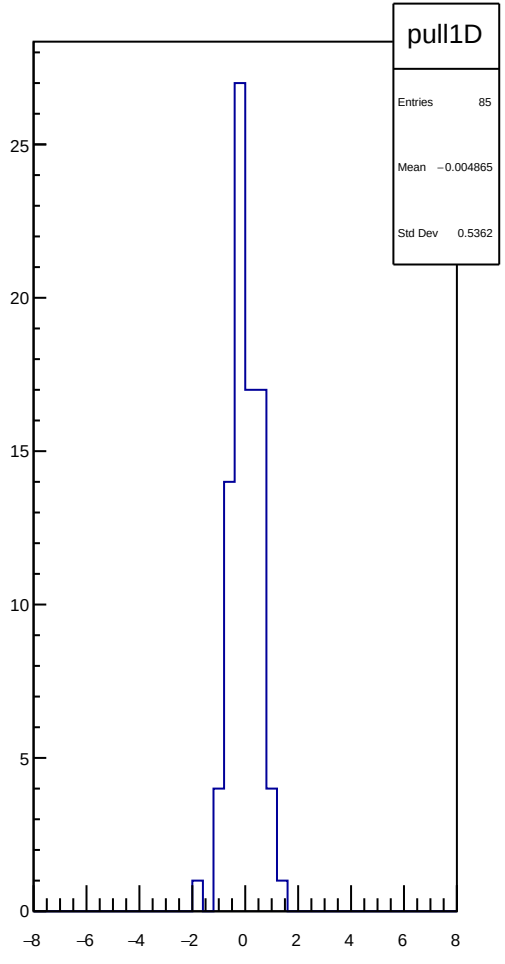


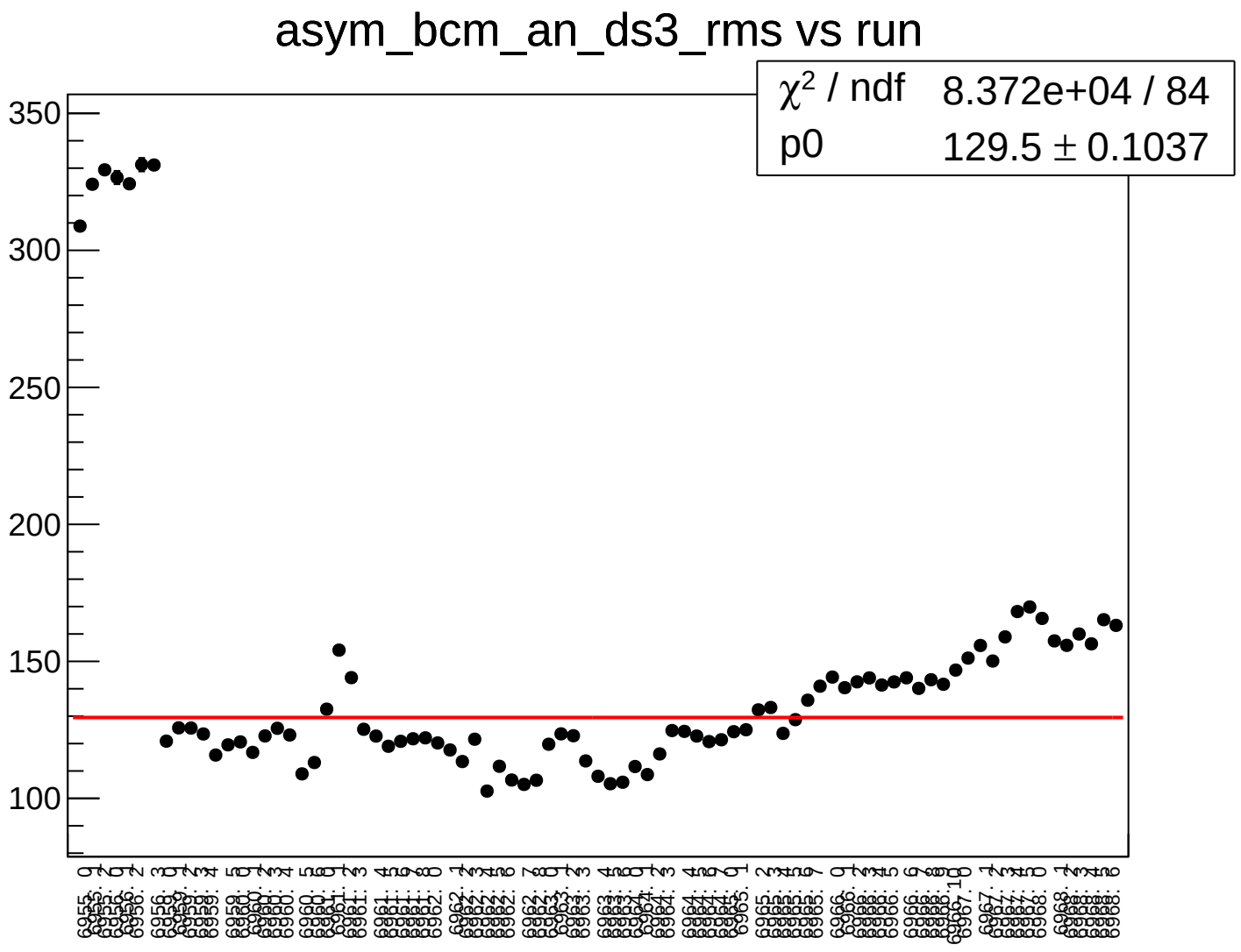

asym_bcm_an_ds_mean vs run
χ² / ndf 24.49 / 84
p0 −75.5 ± 146.4
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 483.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

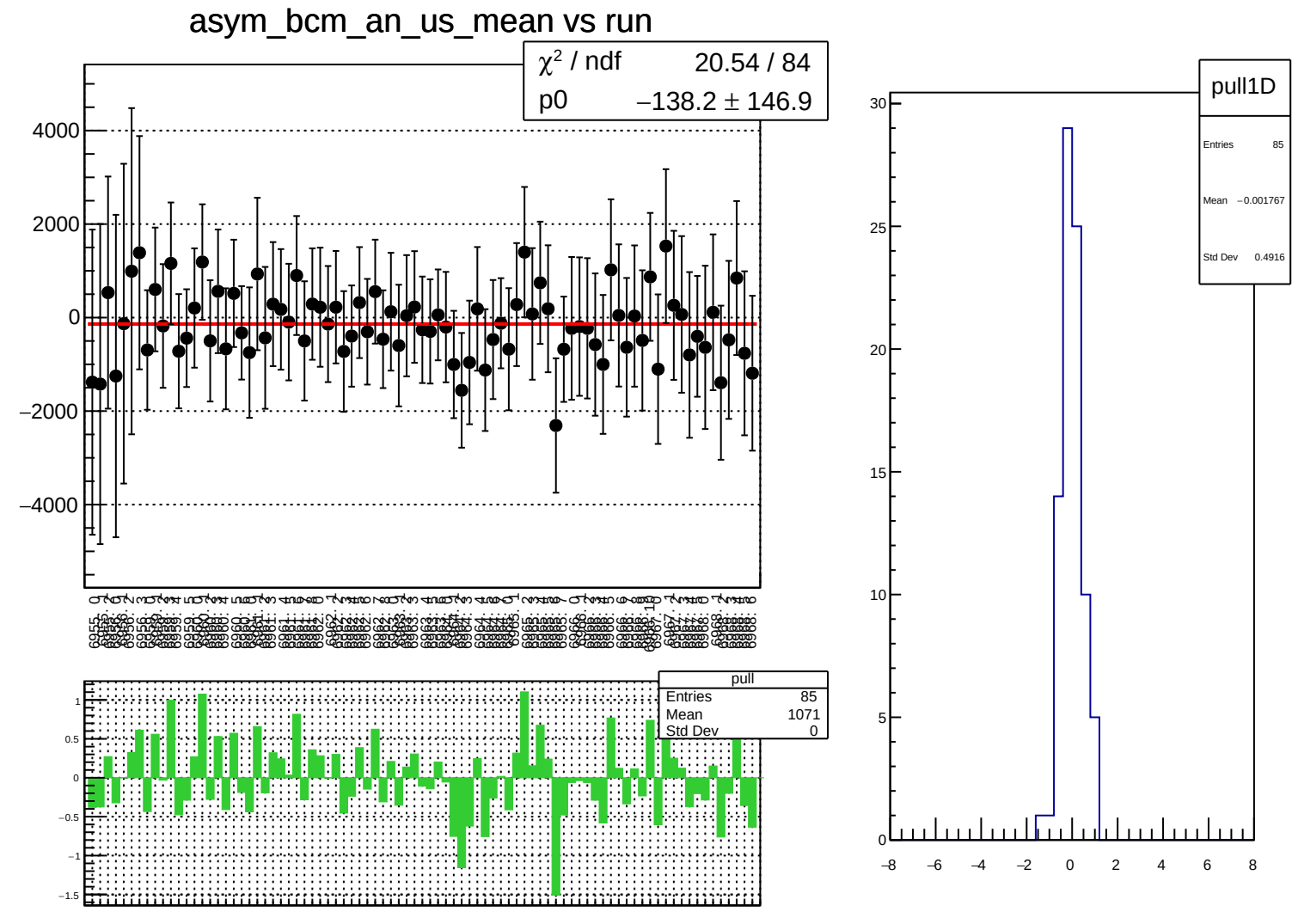

pull1D
Entries 85
Mean −0.004818
Std Dev 0.5367
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

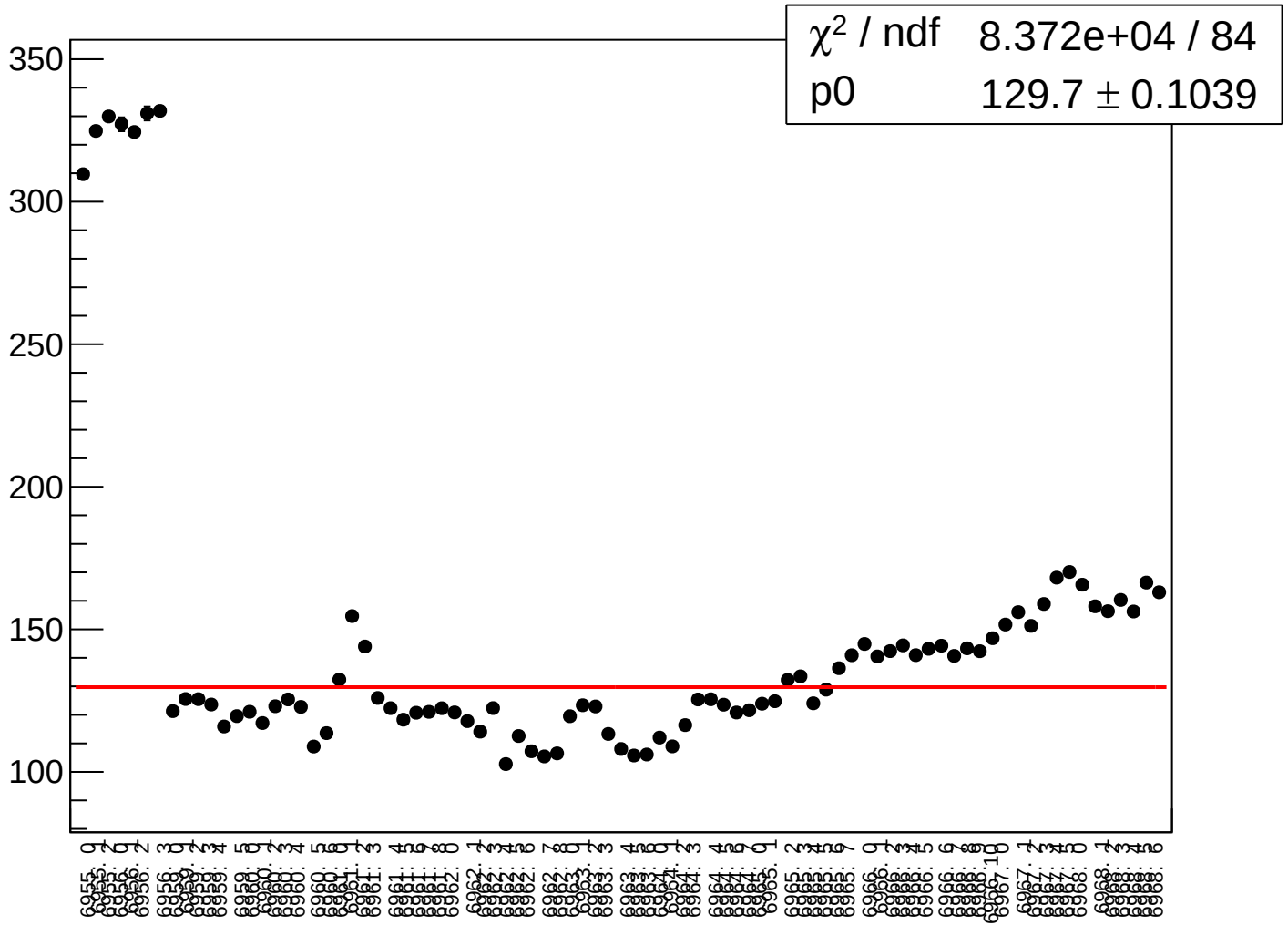

asym_bcm_an_ds_rms vs run
χ² / ndf 8.346e+04 / 84
p0 129.2 ± 0.1035
350
300
250
200
150
100

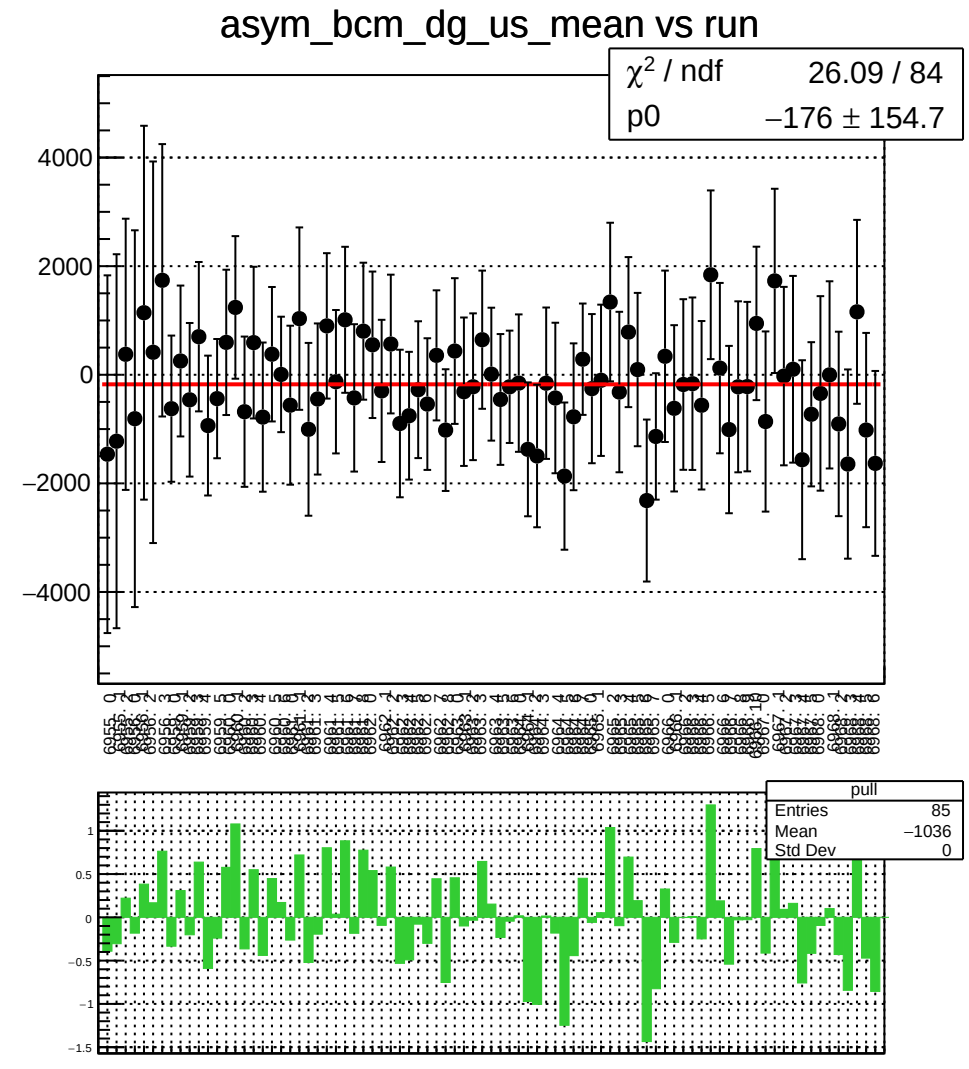

asym_bcm_an_ds3_mean vs run
χ² / ndf 24.44 / 84
p0 −74.54 ± 146.7
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 463.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

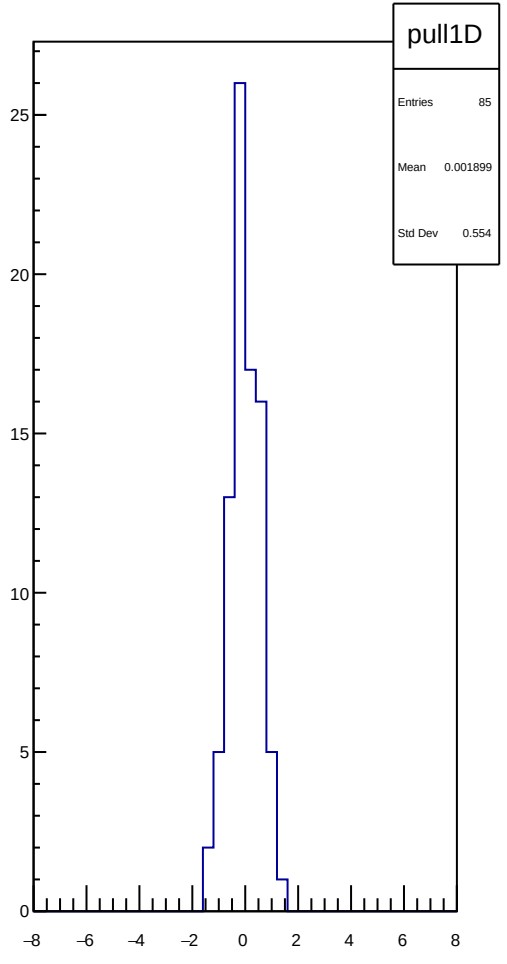

pull1D
Entries 85
Mean −0.004865
Std Dev 0.5362
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

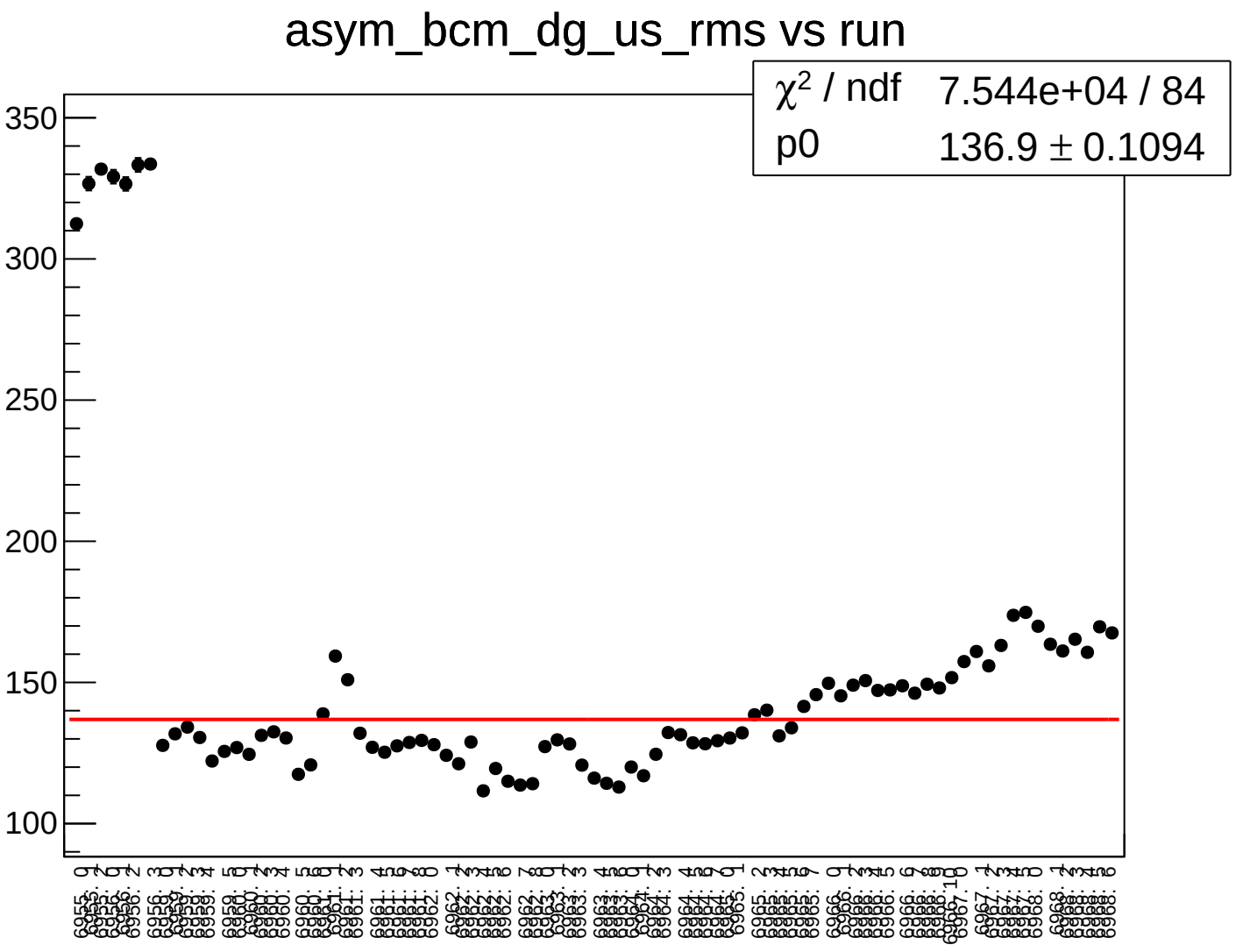

asym_bcm_an_ds3_rms vs run
χ² / ndf 8.372e+04 / 84
p0 129.5 ± 0.1037
350
300
250
200
150
100

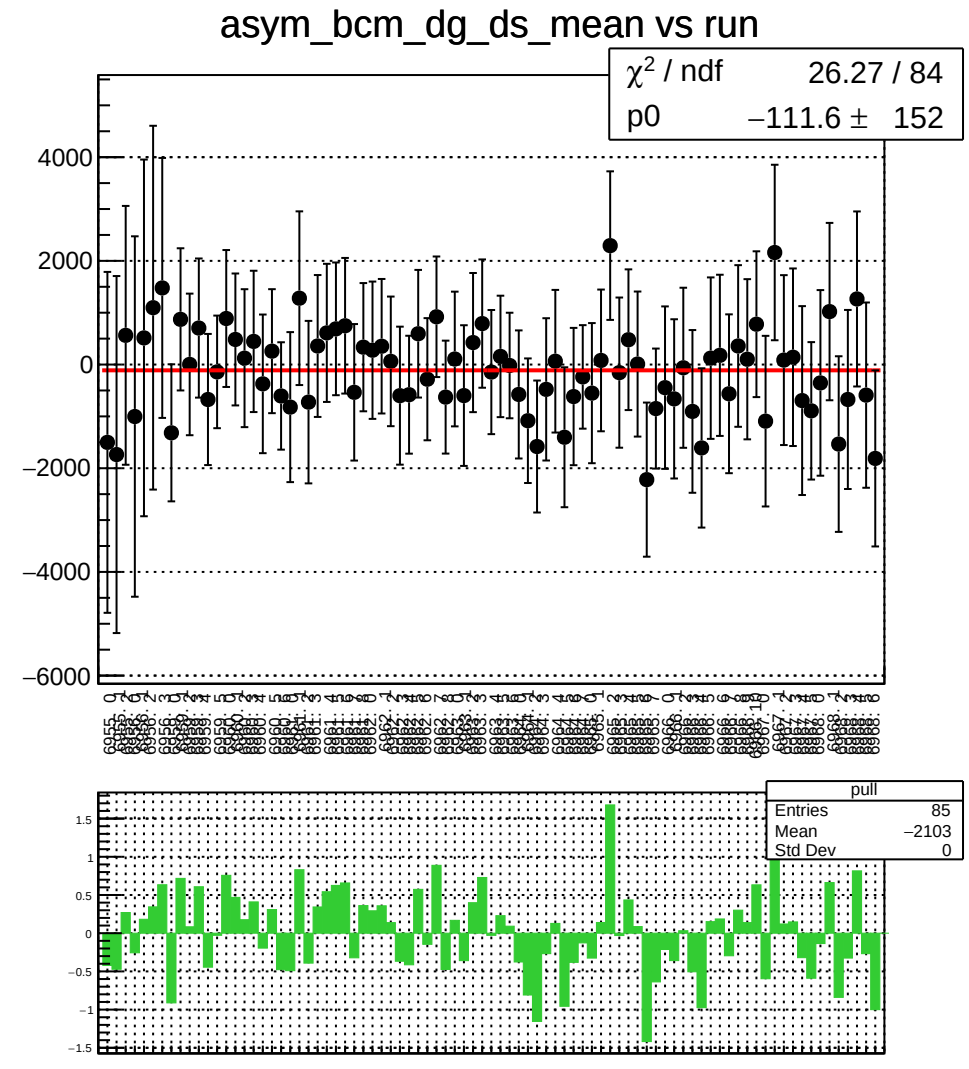

asym_bcm_an_us_mean vs run
χ² / ndf 20.54 / 84
p0 −138.2 ± 146.9
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 1071
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.001767
Std Dev 0.4916
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

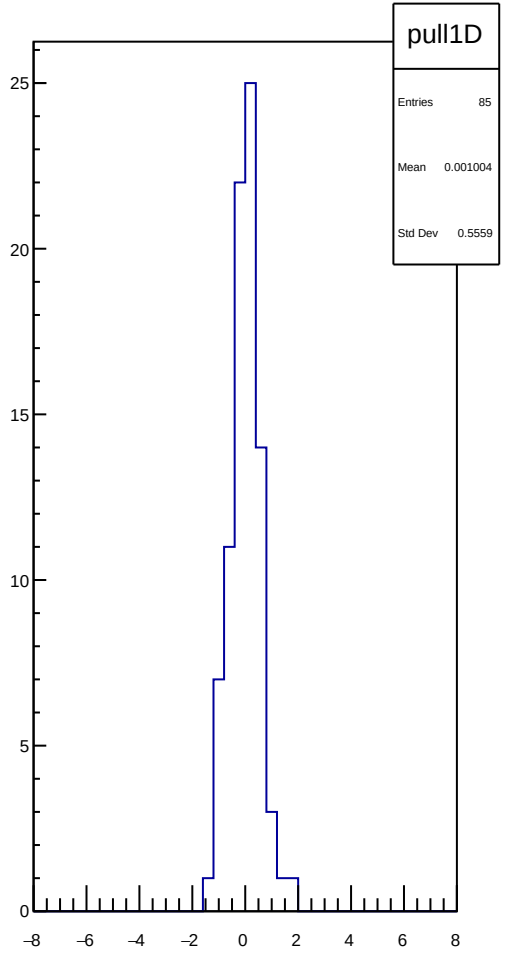

asym_bcm_an_us_rms vs run
χ² / ndf 8.372e+04 / 84
p0 129.7 ± 0.1039
350
300
250
200
150
100

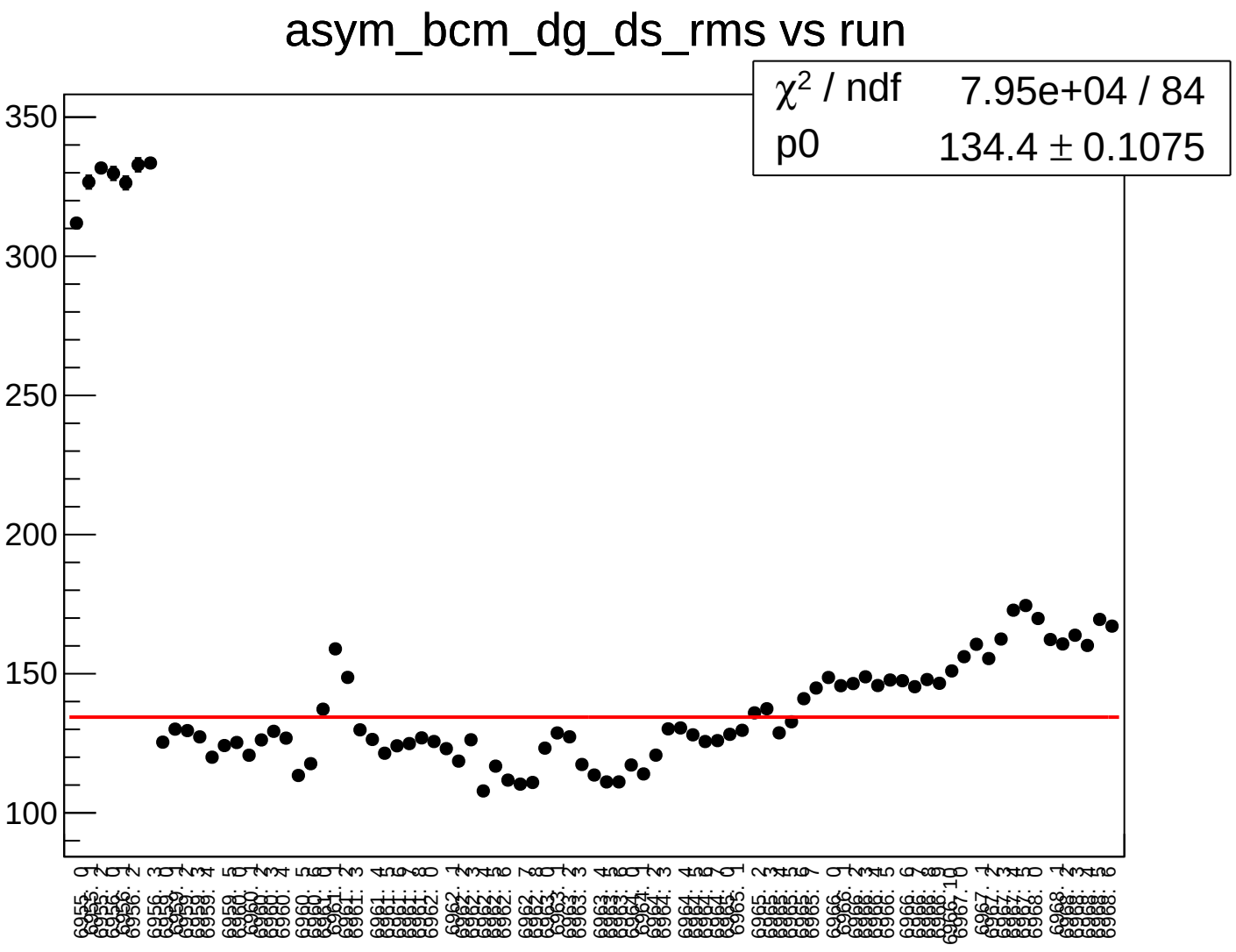

asym_bcm_dg_us_mean vs run
χ² / ndf 26.09 / 84
p0 −176 ± 154.7
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −1036
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

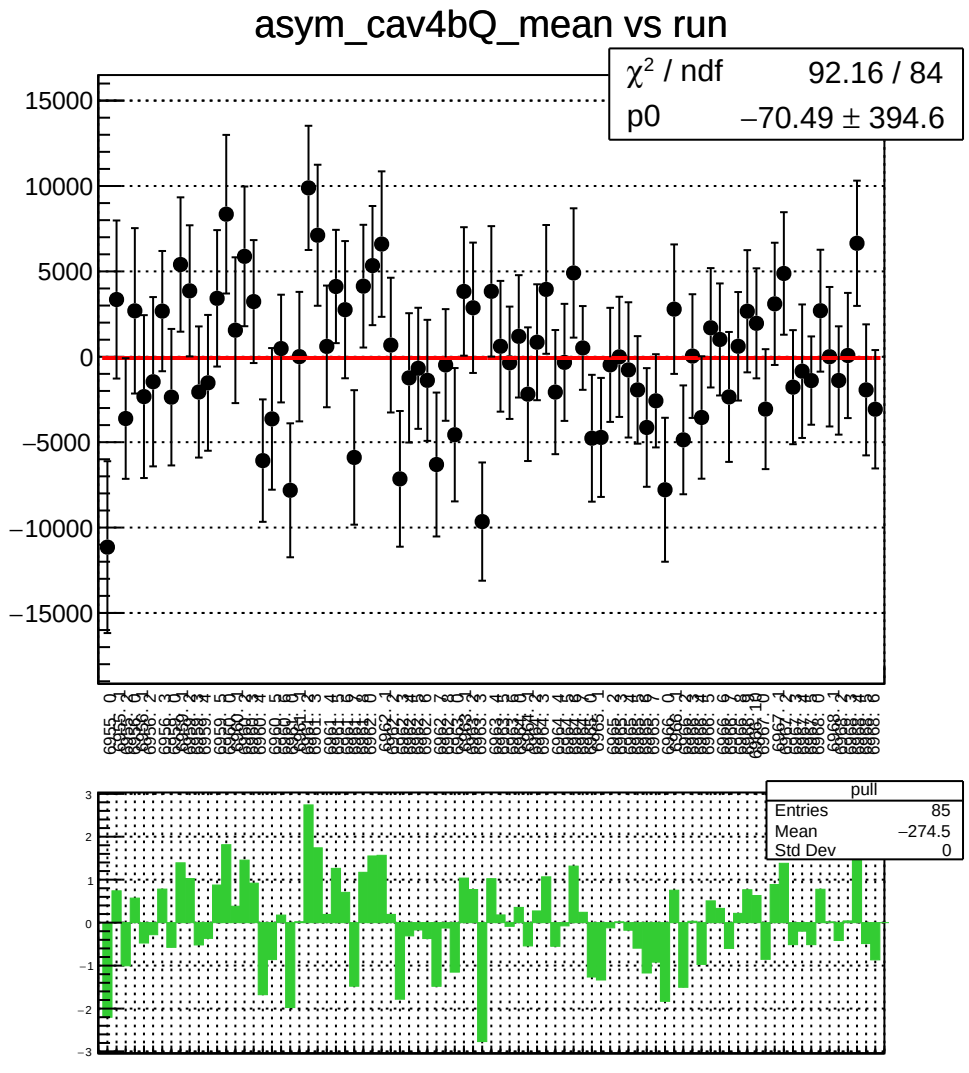

pull1D
Entries 85
Mean 0.001899
Std Dev 0.554
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

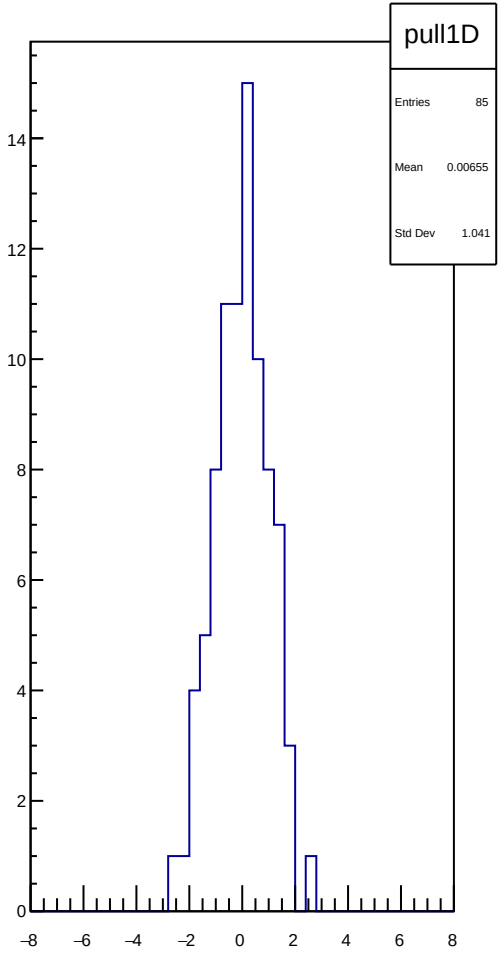

asym_bcm_dg_us_rms vs run
χ² / ndf 7.544e+04 / 84
p0 136.9 ± 0.1094
350
300
250
200
150
100

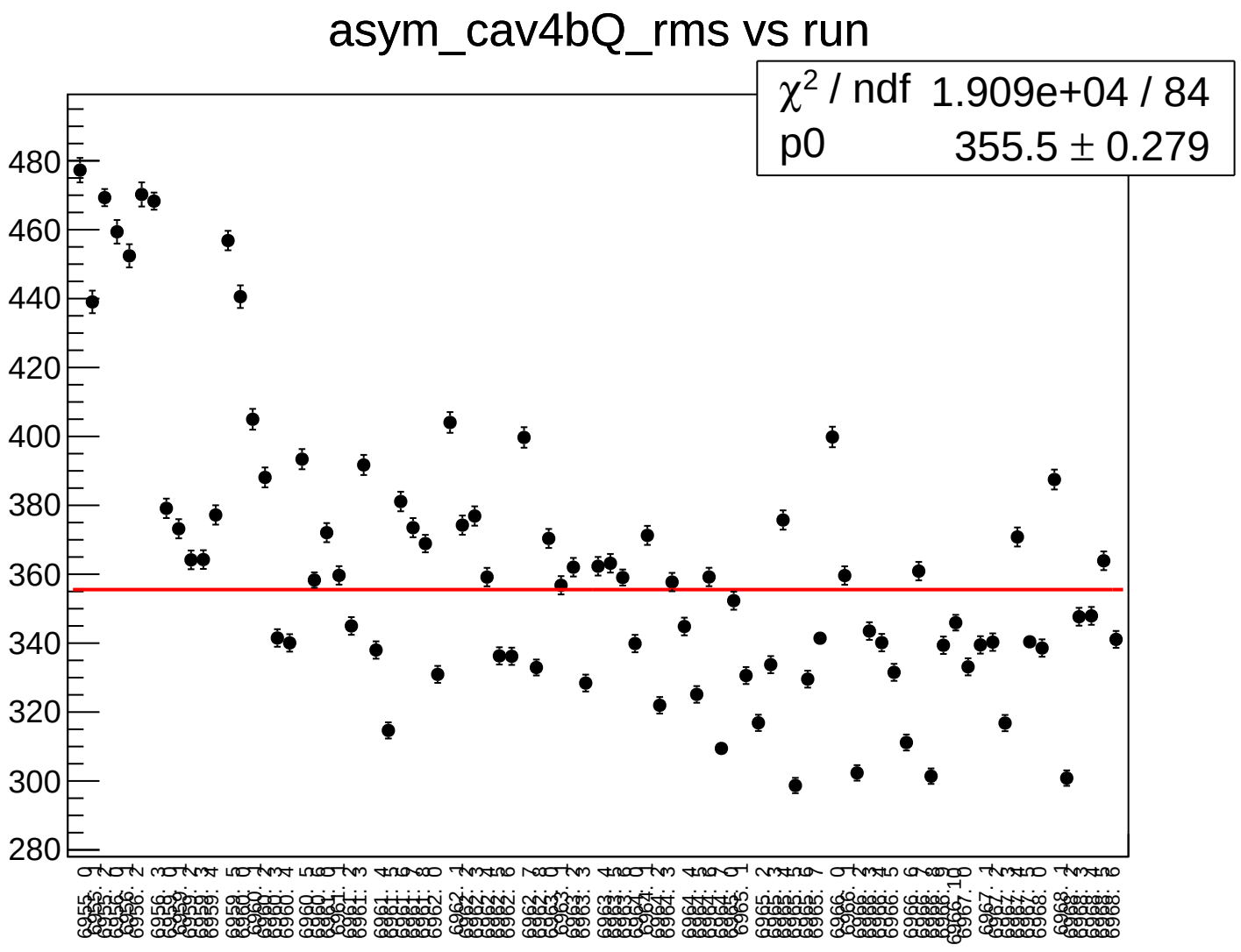

asym_bcm_dg_ds_mean vs run
χ² / ndf 26.27 / 84
p0 −111.6 ± 152
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −2103
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

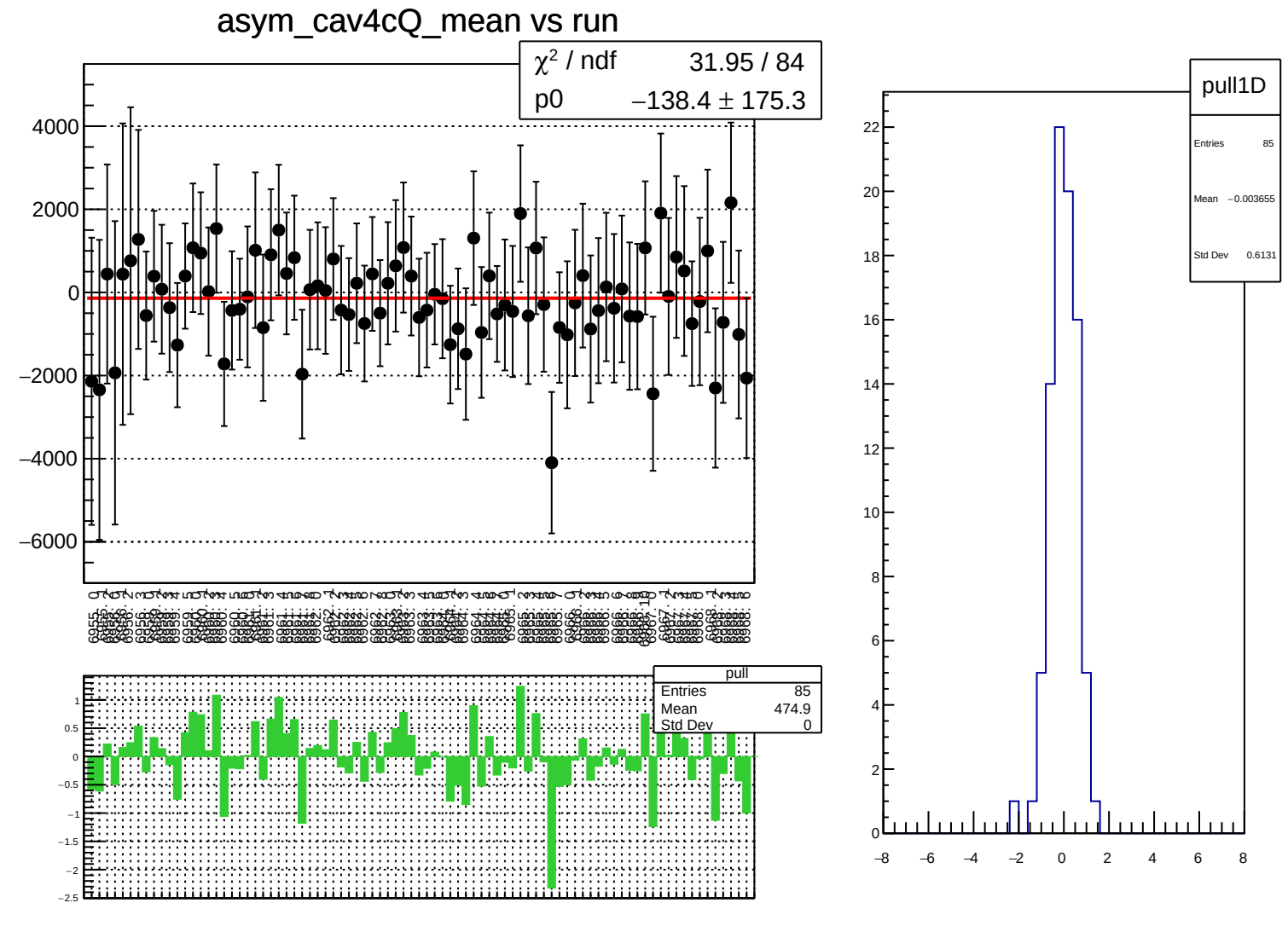

pull1D
Entries 85
Mean 0.001004
Std Dev 0.5559
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

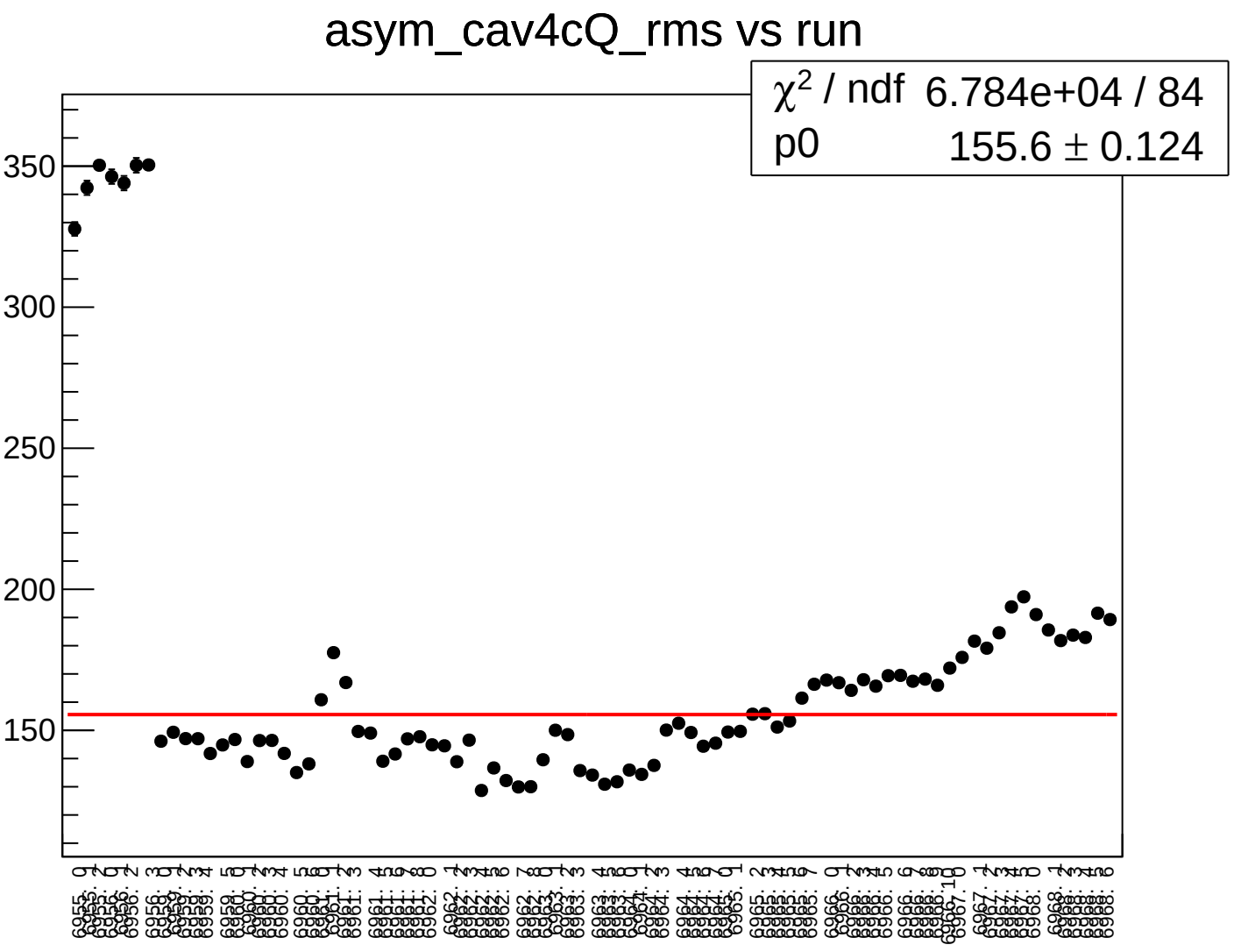

asym_bcm_dg_ds_rms vs run
χ² / ndf 7.95e+04 / 84
p0 134.4 ± 0.1075
350
300
250
200
150
100

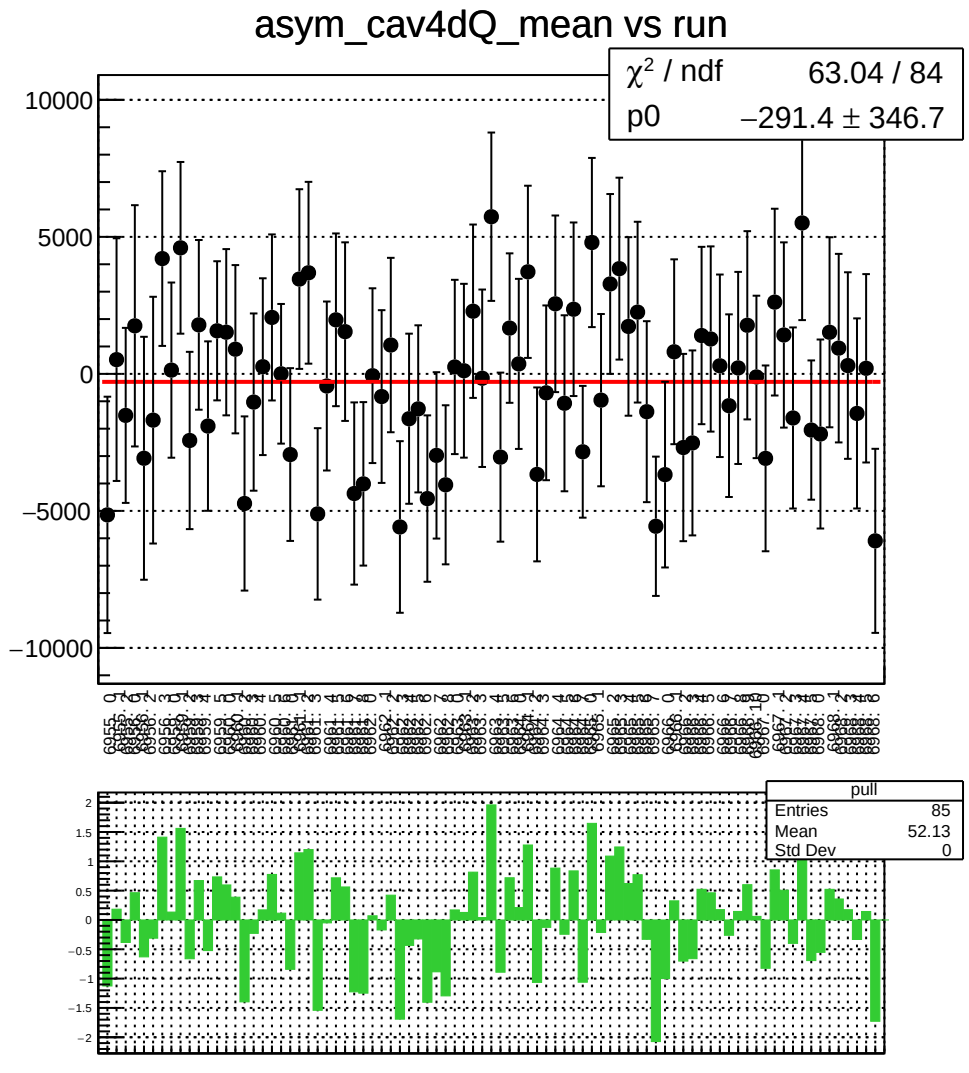

asym_cav4bQ_mean vs run
χ² / ndf 92.16 / 84
p0 −70.49 ± 394.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −274.5
Std Dev 0
3
2
1
0
−1
−2
−3

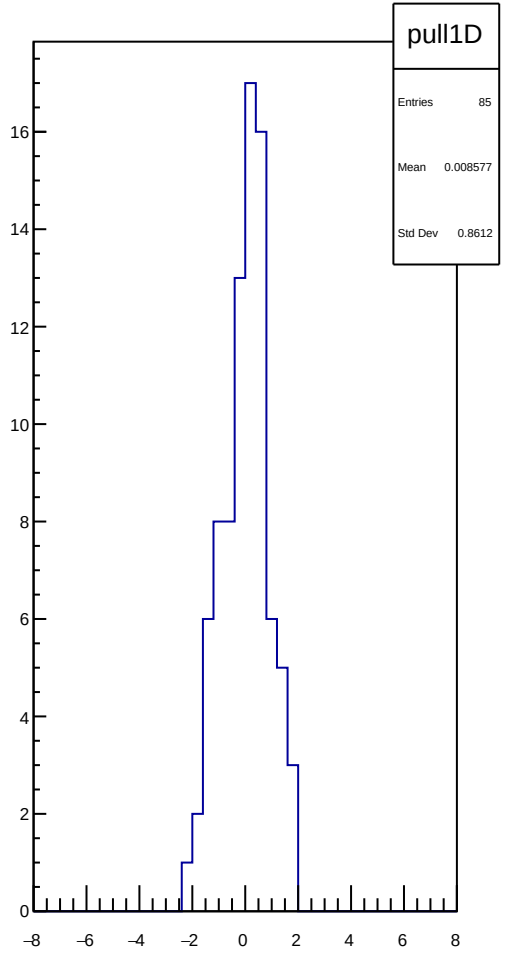

pull1D
Entries 85
Mean 0.00655
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

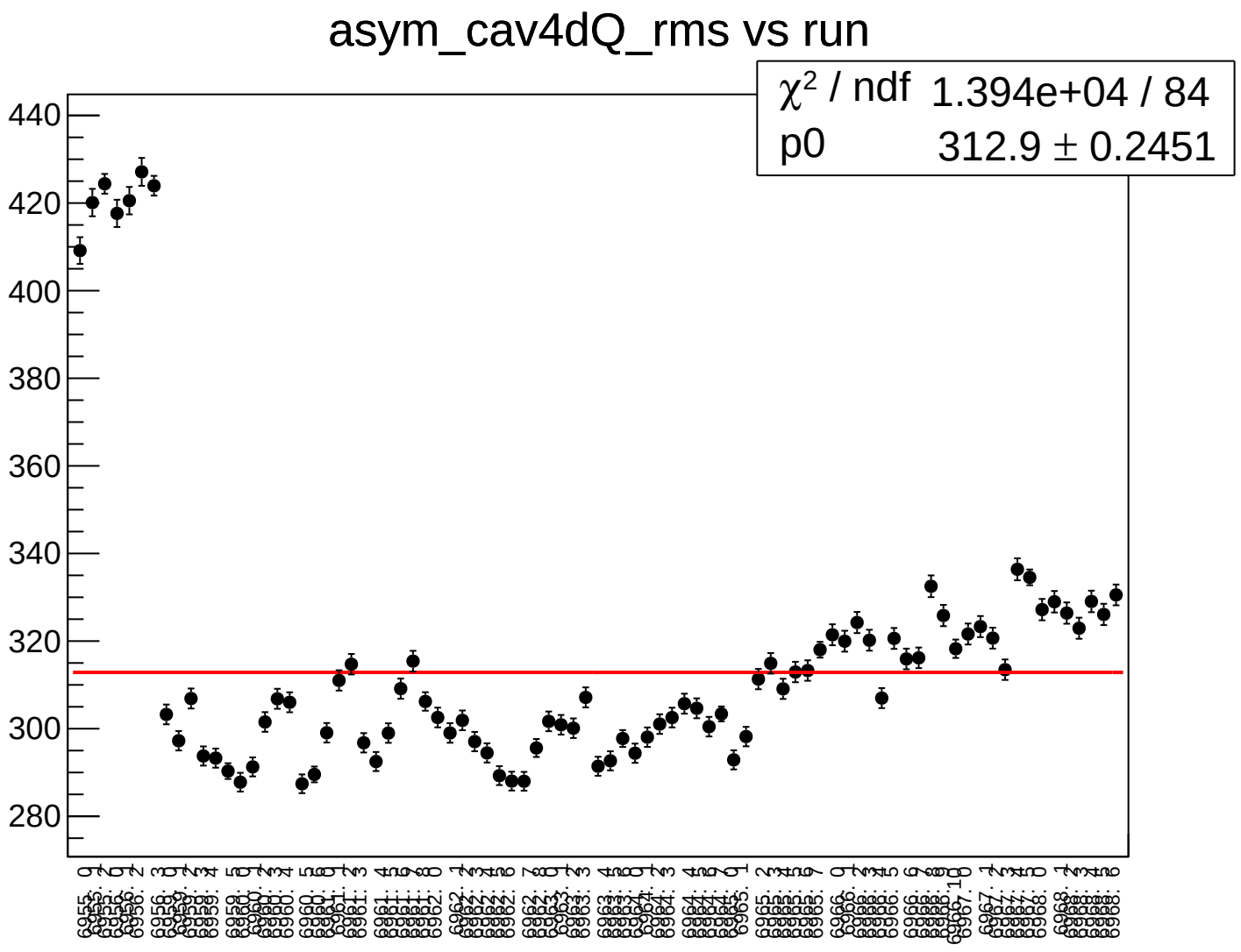

asym_cav4bQ_rms vs run
χ² / ndf 1.909e+04 / 84
p0 355.5 ± 0.279
480
460
440
420
400
380
360
340
320
300
280

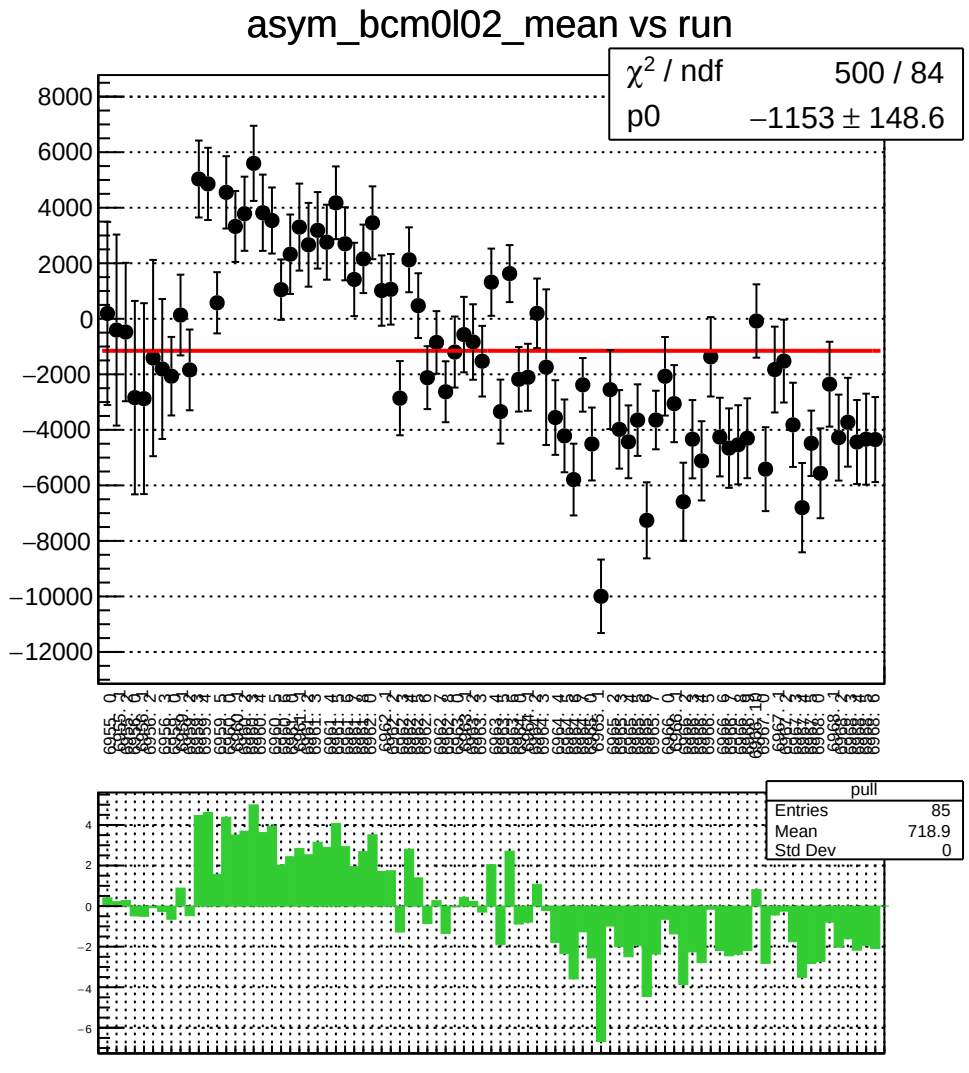

asym_cav4cQ_mean vs run
χ² / ndf 31.95 / 84
p0 −138.4 ± 175.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 474.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean −0.003655
Std Dev 0.6131
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

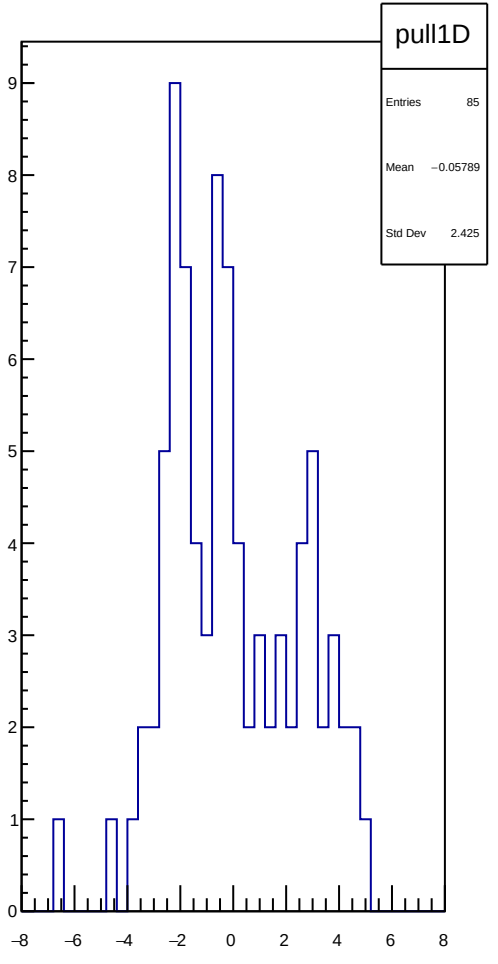

asym_cav4cQ_rms vs run
χ² / ndf 6.784e+04 / 84
p0 155.6 ± 0.124
350
300
250
200
150

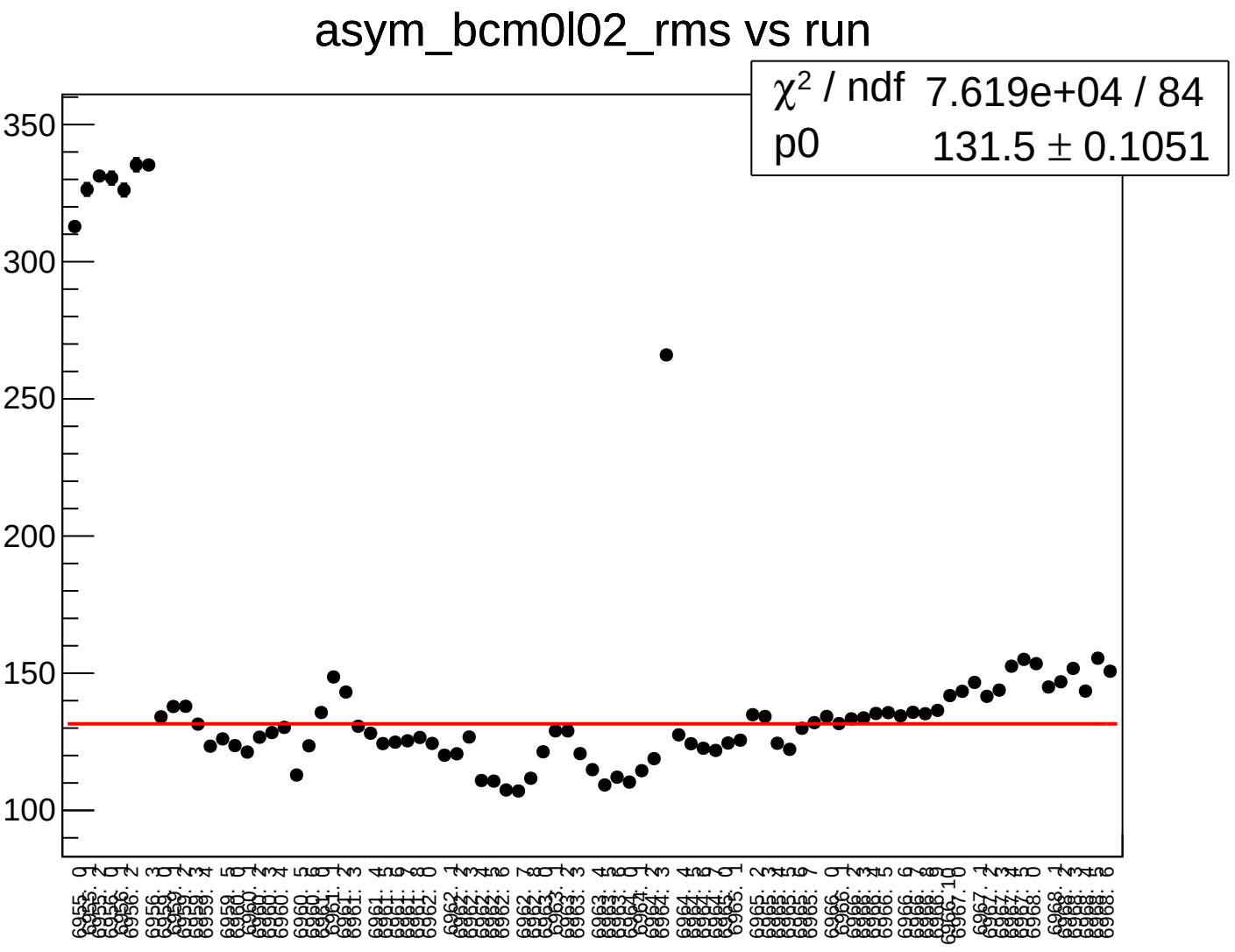

asym_cav4dQ_mean vs run
χ² / ndf 63.04 / 84
p0 −291.4 ± 346.7
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 52.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

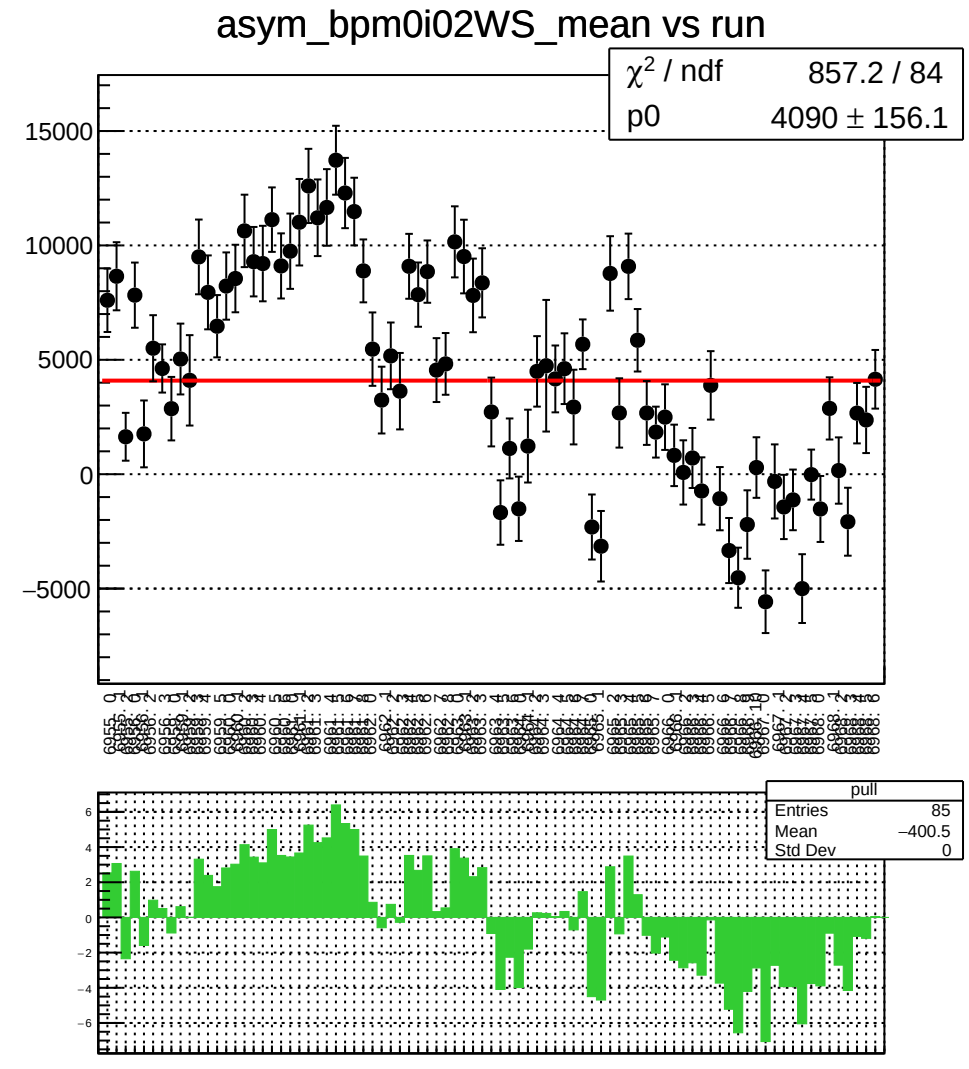

pull1D
Entries 85
Mean 0.008577
Std Dev 0.8612
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

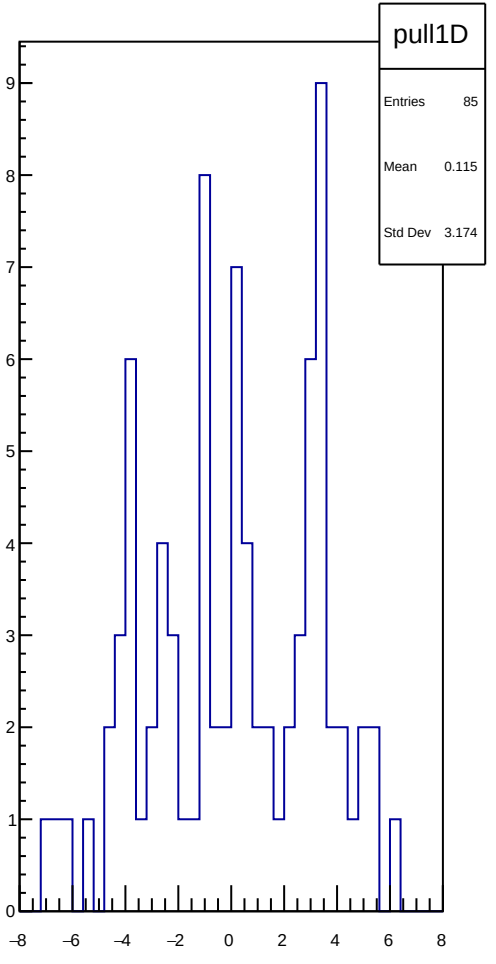

asym_cav4dQ_rms vs run
χ² / ndf 1.394e+04 / 84
p0 312.9 ± 0.2451
440
420
400
380
360
340
320
300
280

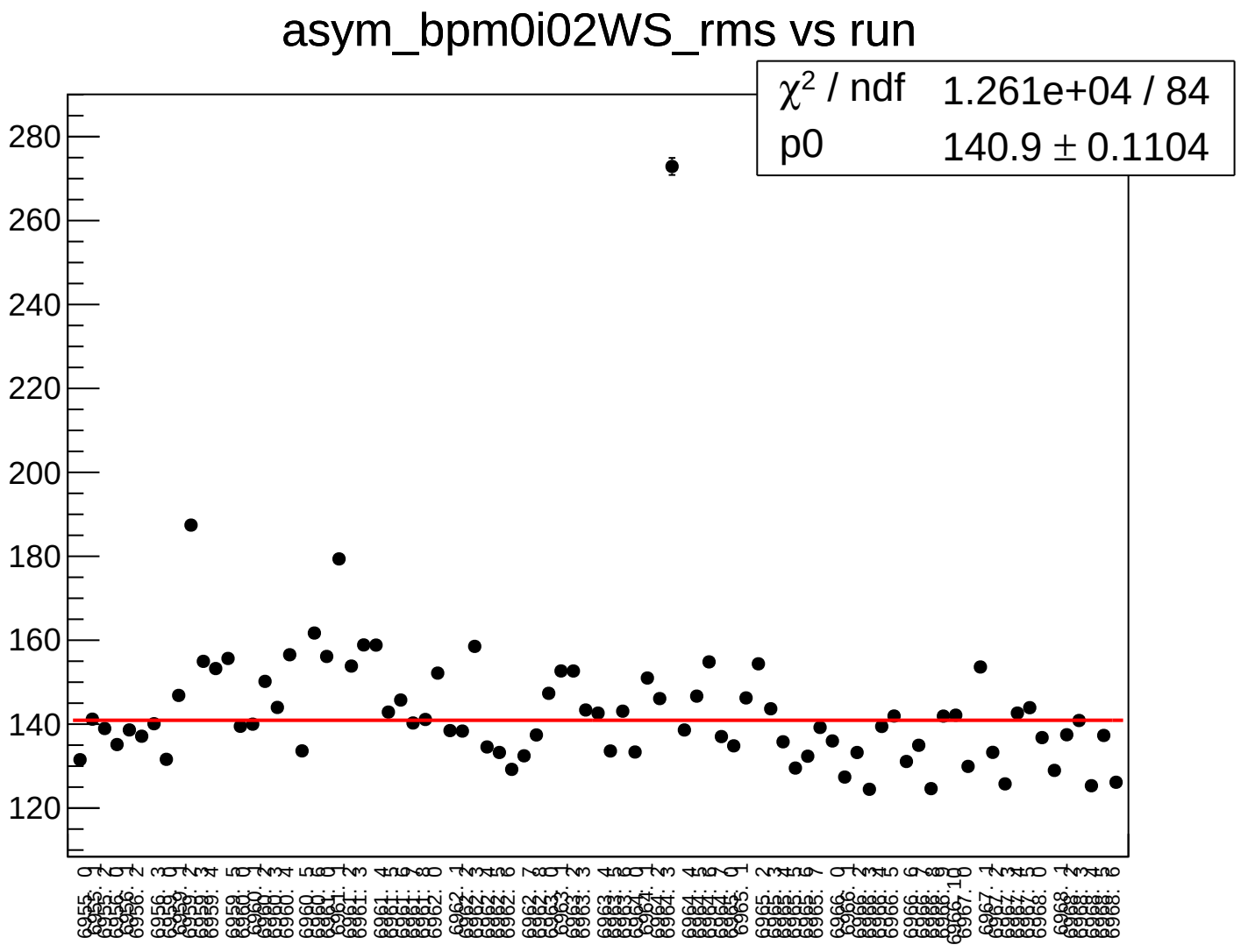

asym_bcm0l02_mean vs run
χ² / ndf 500 / 84
p0 −1153 ± 148.6
pull
Entries 85
Mean 718.9
Std Dev 0

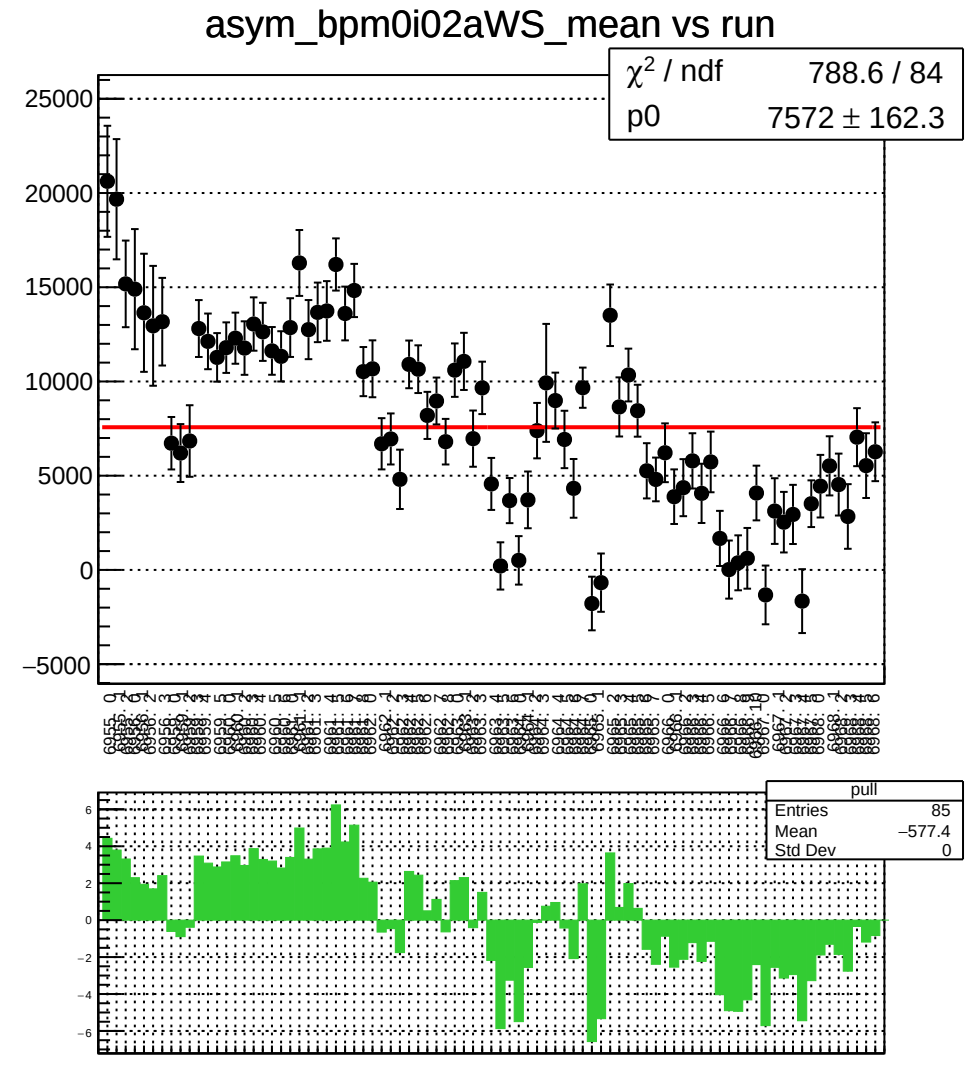

pull1D
Entries 85
Mean −0.05789
Std Dev 2.425

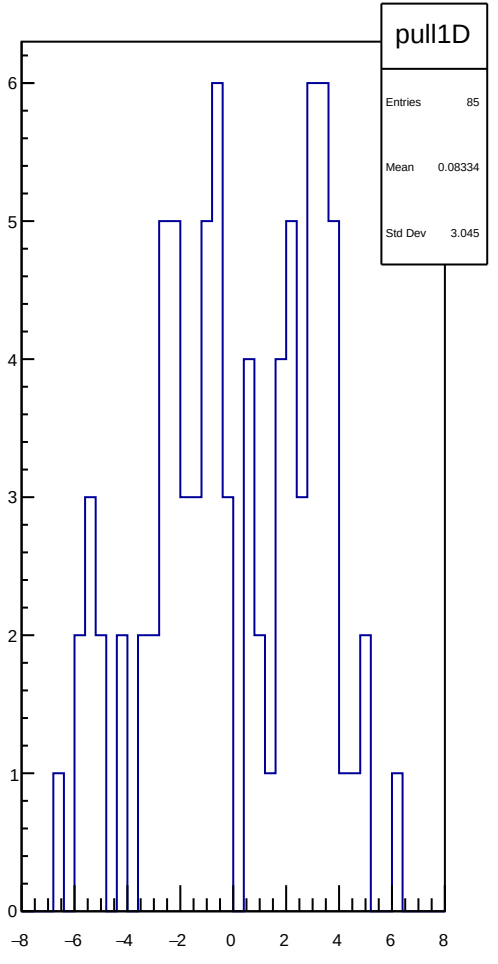

asym_bcm0l02_rms vs run
χ² / ndf 7.619e+04 / 84
p0 131.5 ± 0.1051
350
300
250
200
150
100

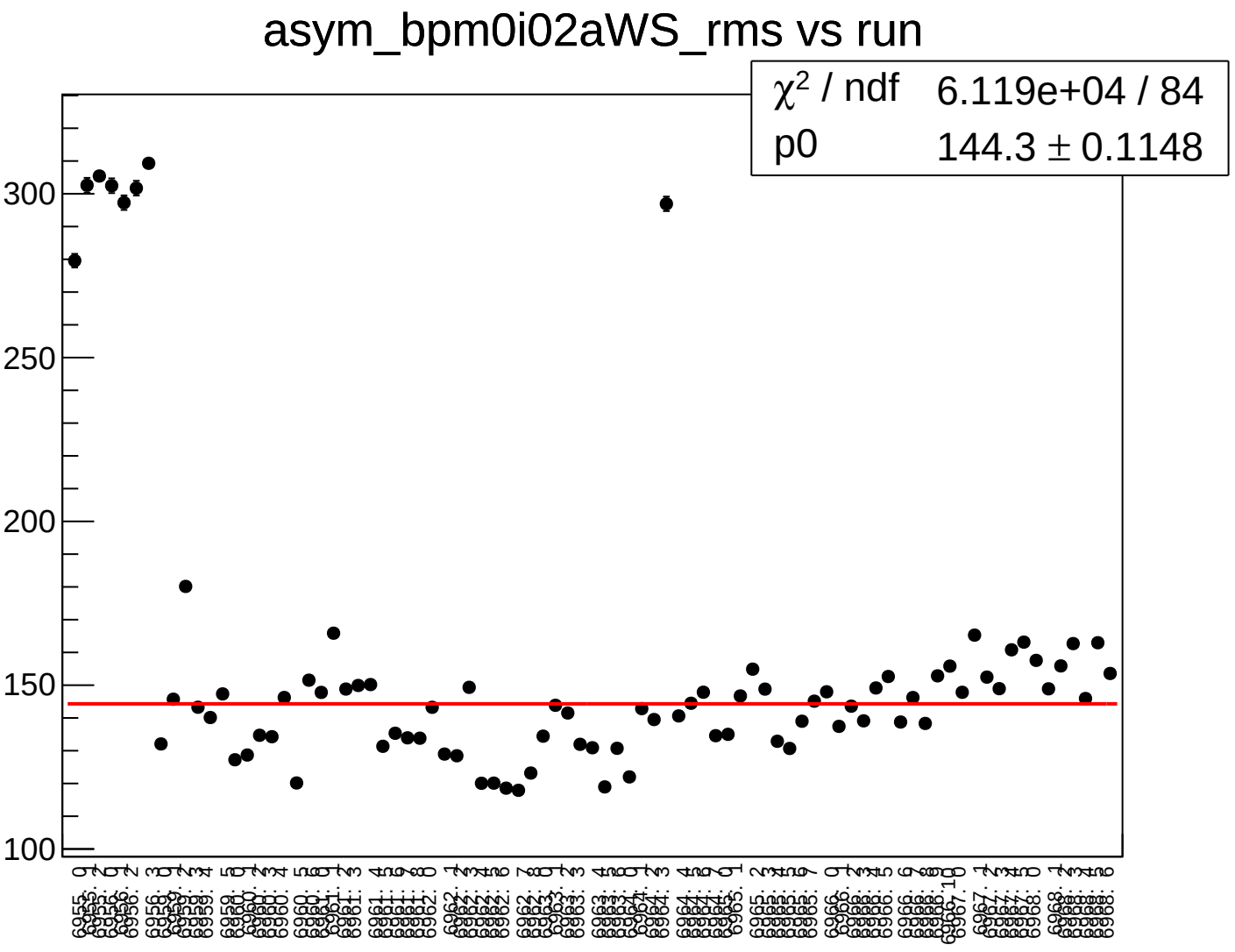

asym_bpm0i02WS_mean vs run
χ² / ndf 857.2 / 84
p0 4090 ± 156.1
15000
10000
5000
0
−5000
pull
Entries 85
Mean −400.5
Std Dev 0
6
4
2
0
−2
−4
−6

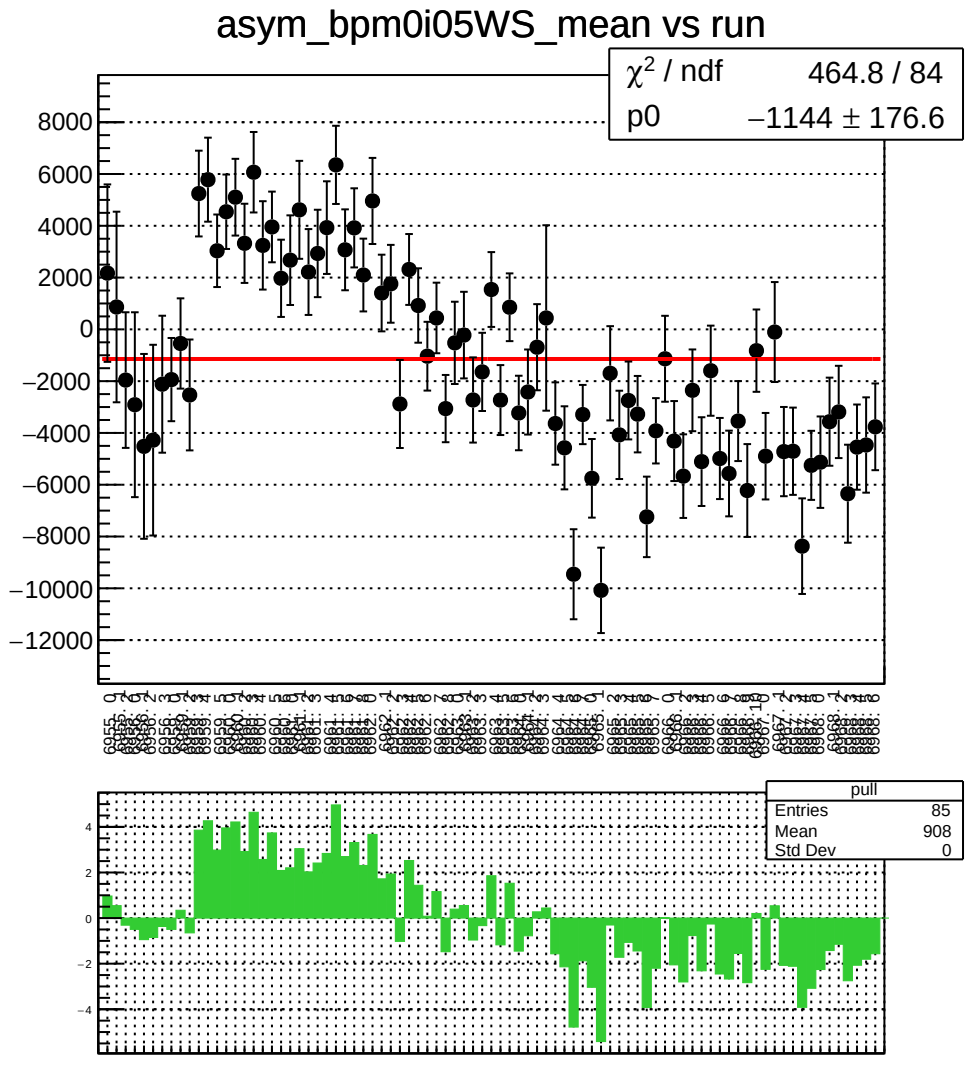

pull1D
Entries 85
Mean 0.115
Std Dev 3.174
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

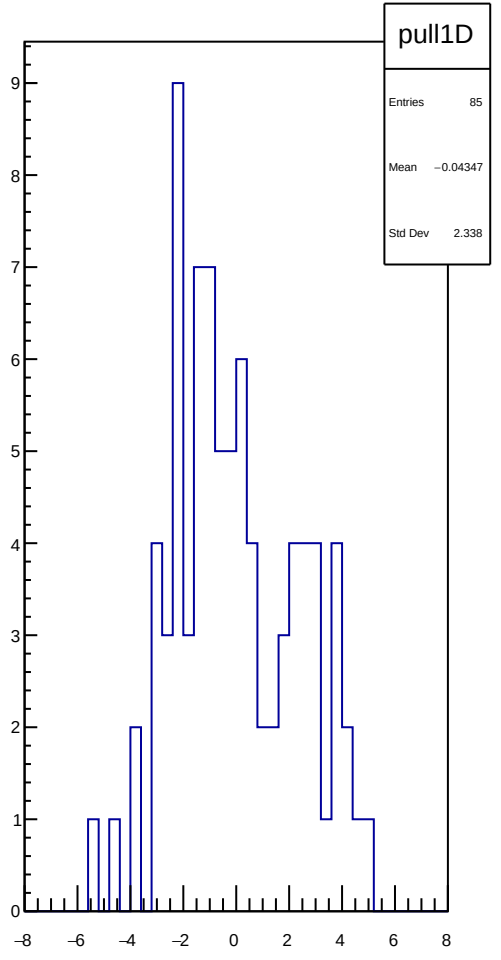

asym_bpm0i02WS_rms vs run
χ² / ndf 1.261e+04 / 84
p0 140.9 ± 0.1104
280
260
240
220
200
180
160
140
120

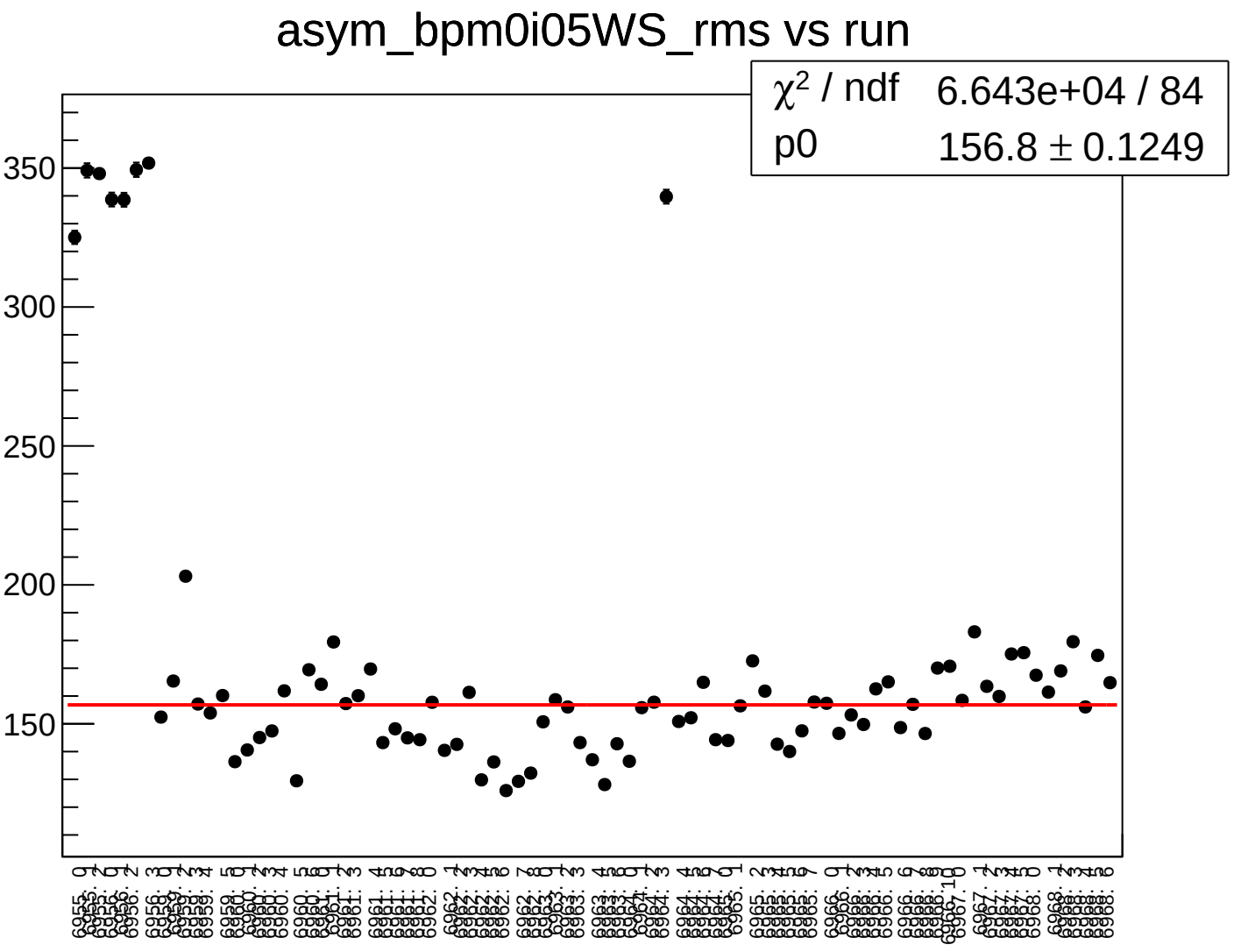

asym_bpm0i02aWS_mean vs run
χ² / ndf 788.6 / 84
p0 7572 ± 162.3
25000
20000
15000
10000
5000
0
−5000
pull
Entries 85
Mean −577.4
Std Dev 0
6
4
2
0
−2
−4
−6

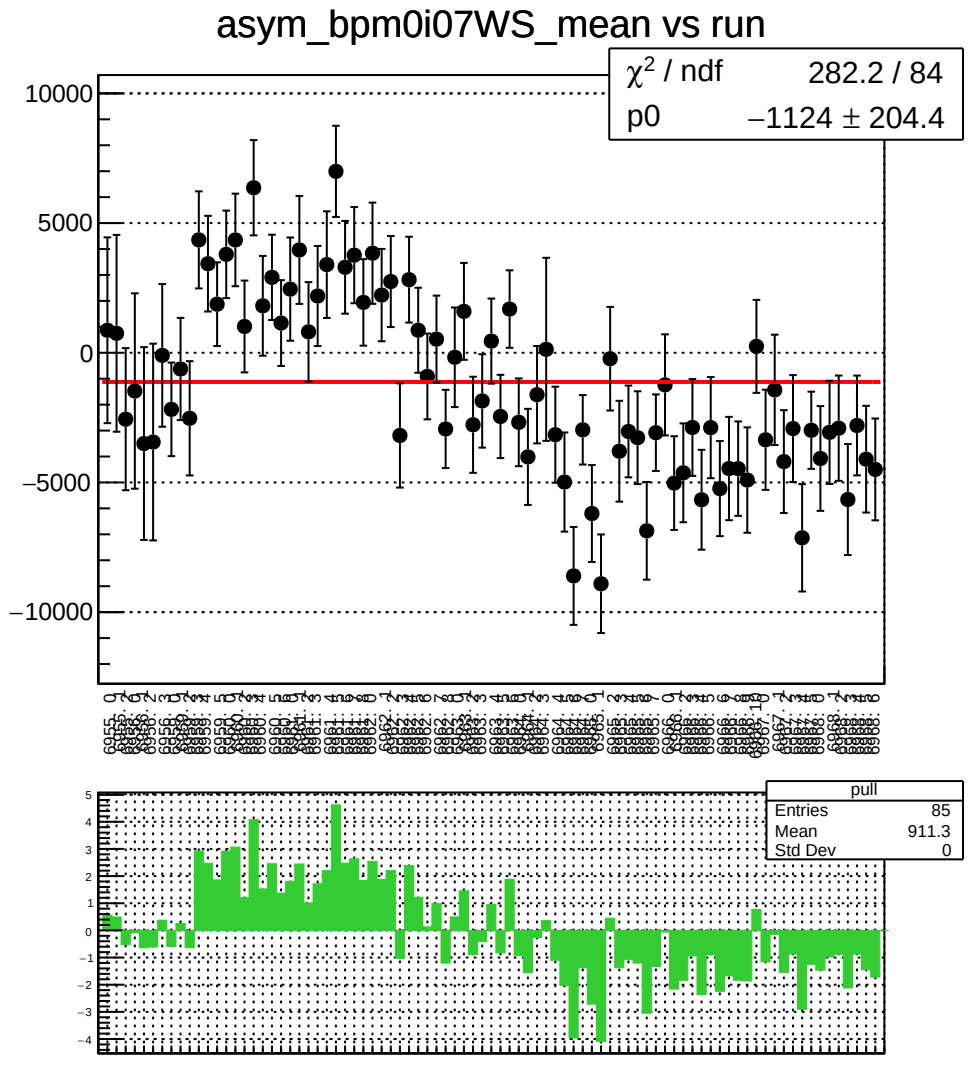

pull1D
Entries 85
Mean 0.08334
Std Dev 3.045
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

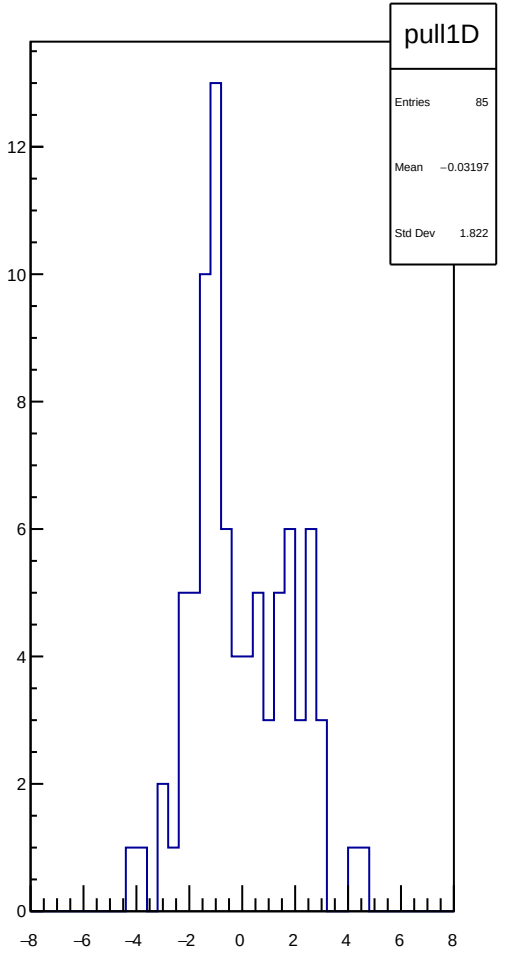

asym_bpm0i02aWS_rms vs run
χ² / ndf 6.119e+04 / 84
p0 144.3 ± 0.1148
300
250
200
150
100

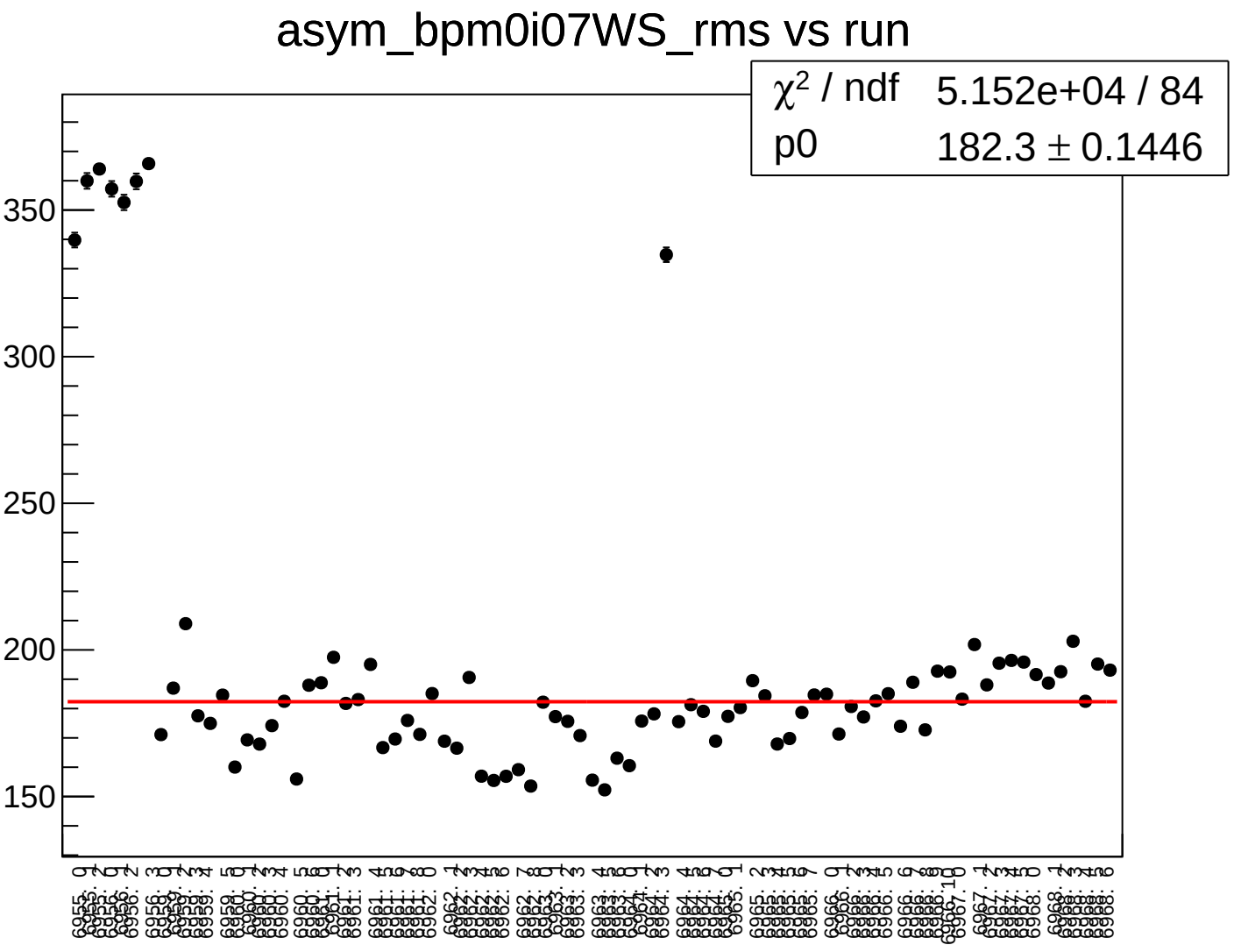

asym_bpm0i05WS_mean vs run
χ² / ndf 464.8 / 84
p0 −1144 ± 176.6
pull
Entries 85
Mean 908
Std Dev 0

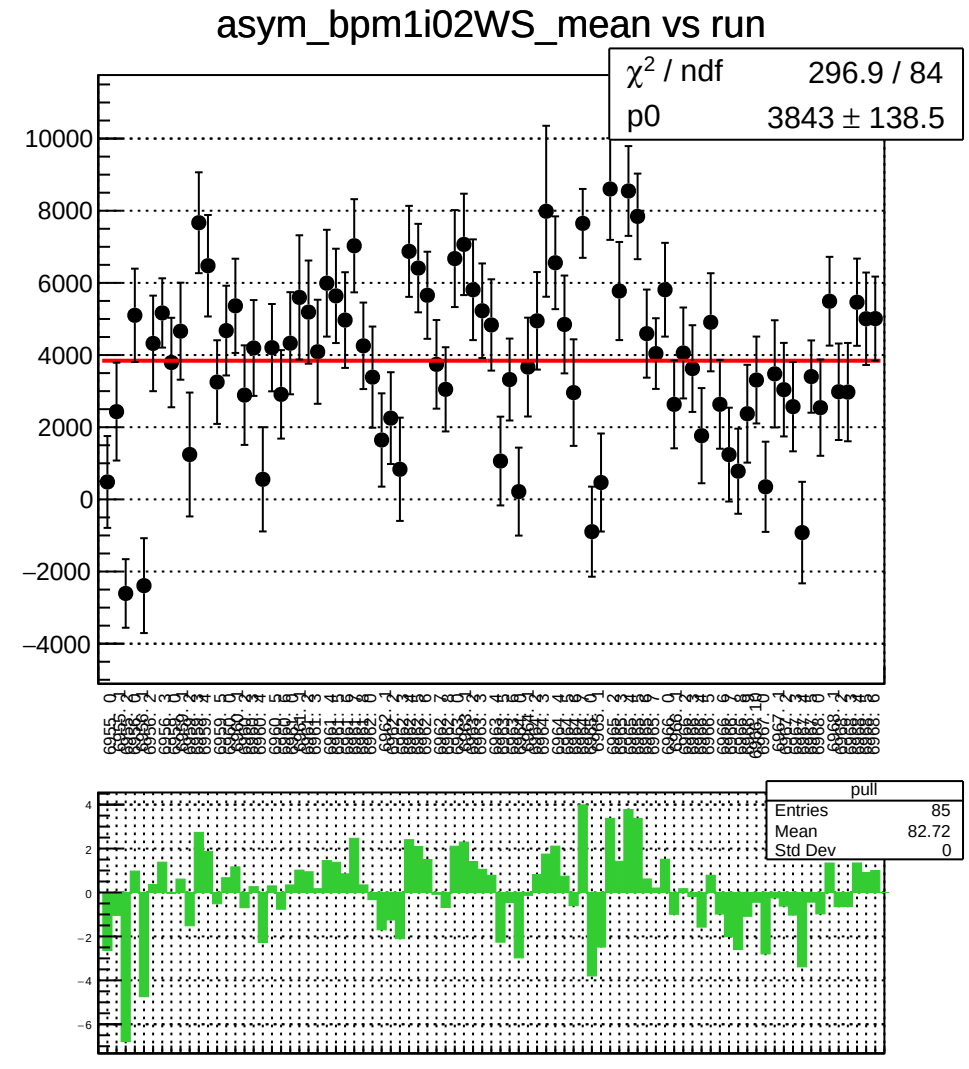

pull1D
Entries 85
Mean −0.04347
Std Dev 2.338

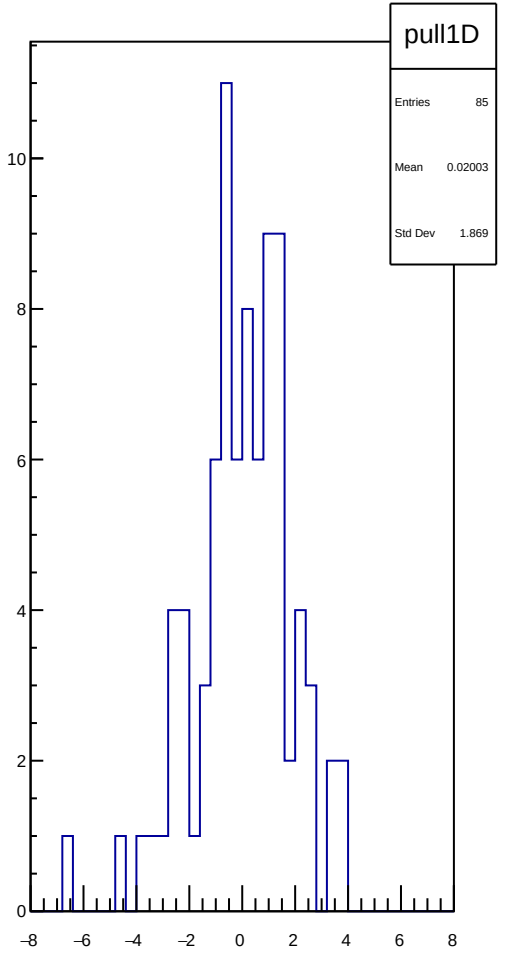

asym_bpm0i05WS_rms vs run
χ² / ndf 6.643e+04 / 84
p0 156.8 ± 0.1249
350
300
250
200
150

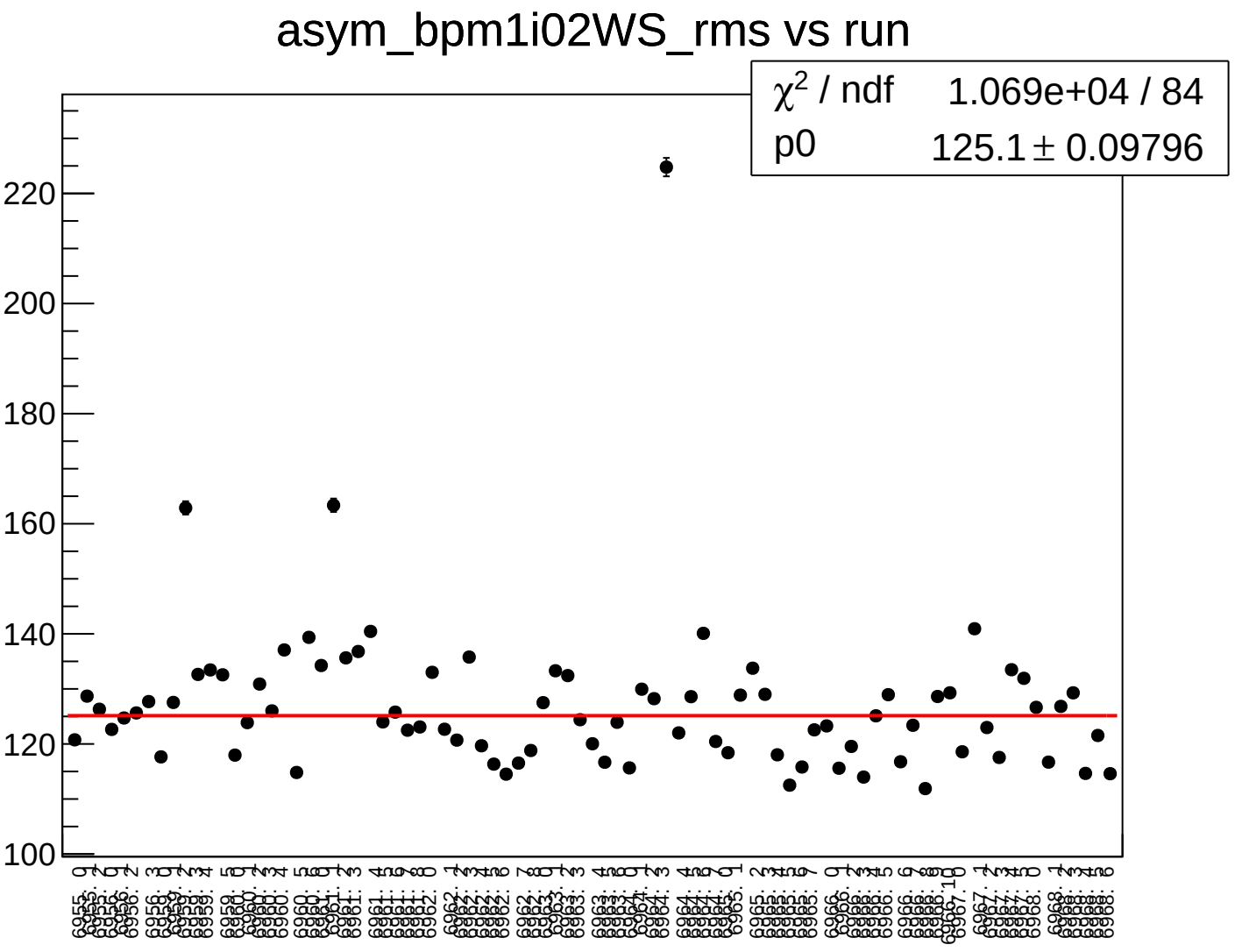

asym_bpm0i07WS_mean vs run
χ² / ndf 282.2 / 84
p0 −1124 ± 204.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 911.3
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

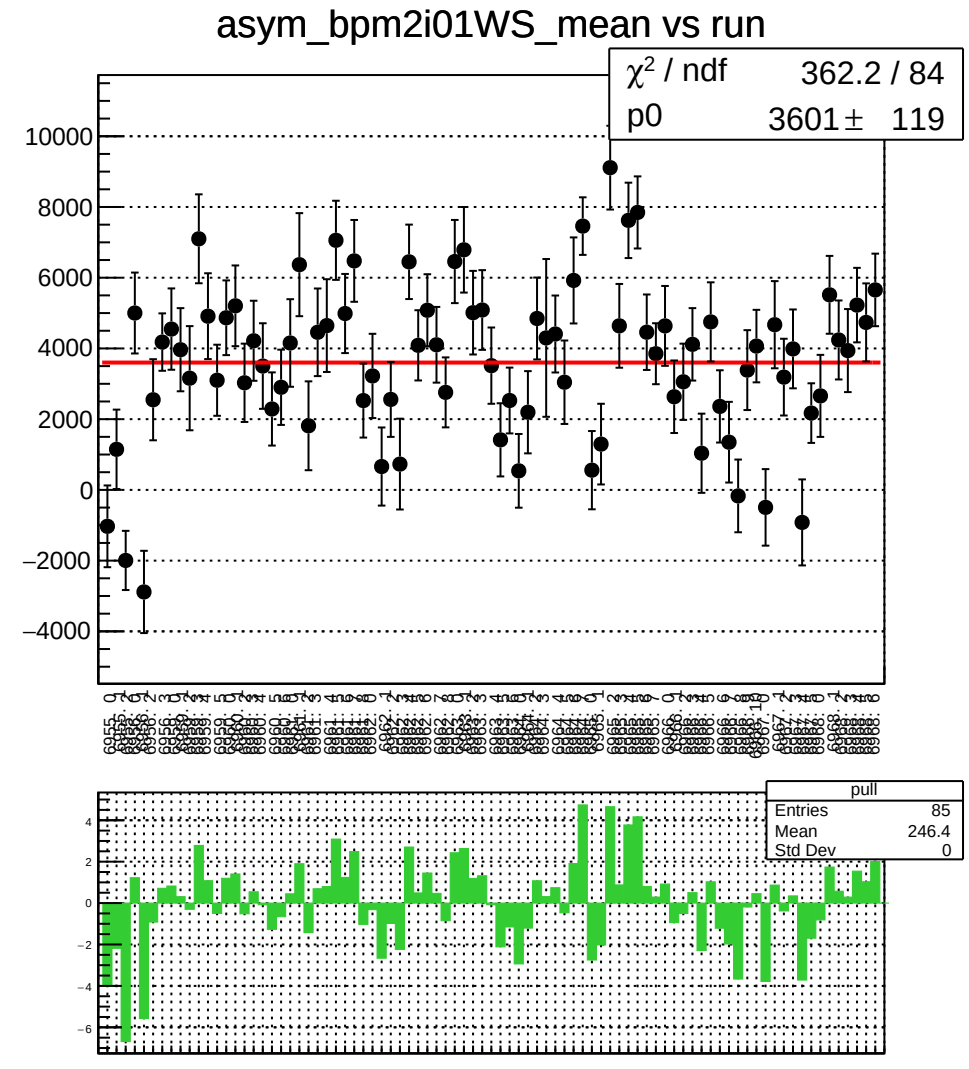

pull1D
Entries 85
Mean −0.03197
Std Dev 1.822
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

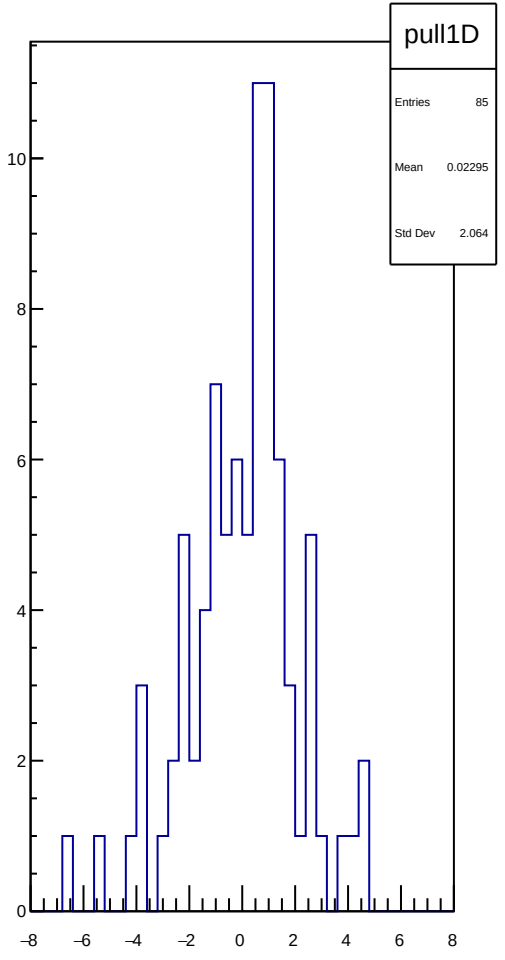

asym_bpm0i07WS_rms vs run
χ² / ndf 5.152e+04 / 84
p0 182.3 ± 0.1446
350
300
250
200
150

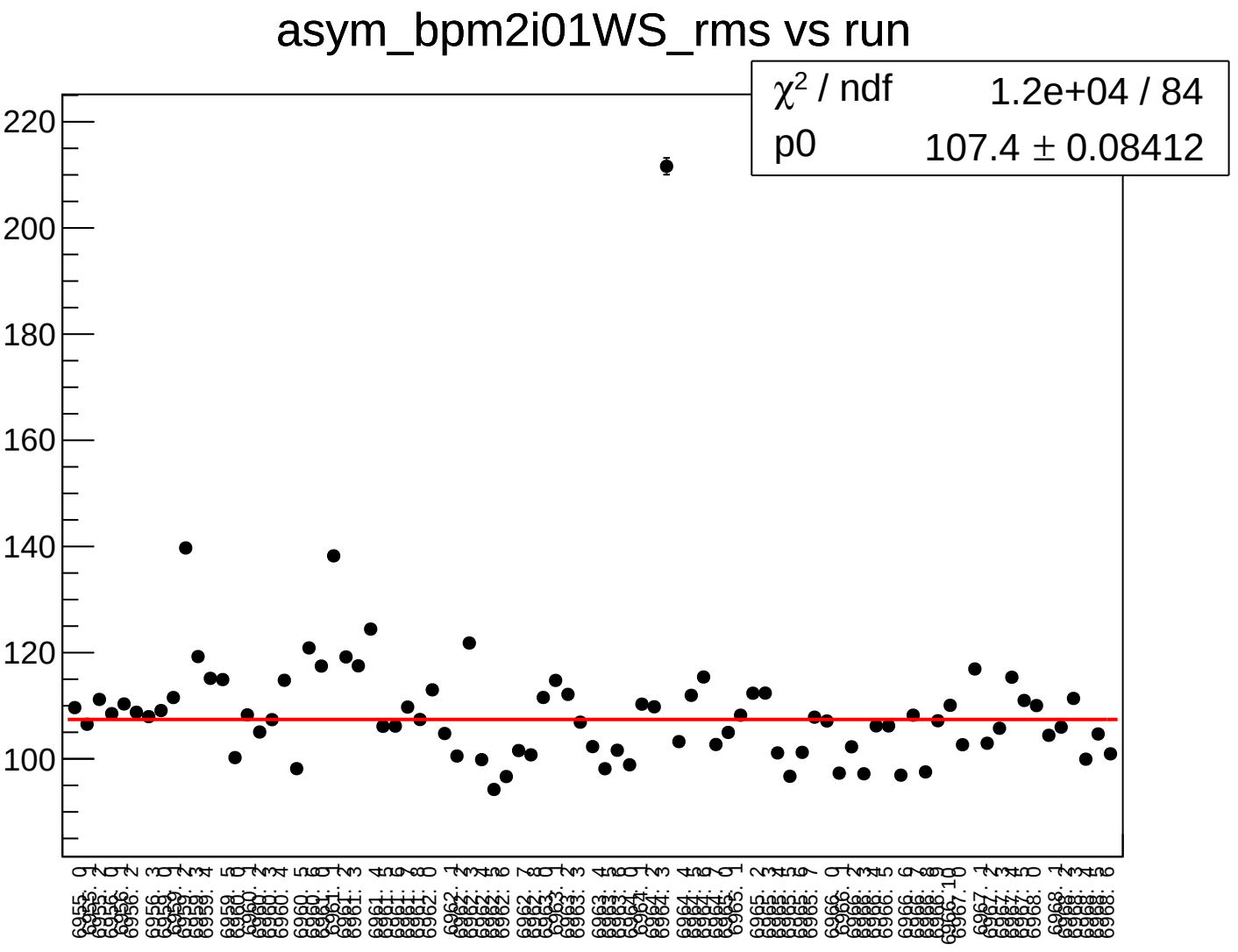

asym_bpm1i02WS_mean vs run
χ² / ndf 296.9 / 84
p0 3843 ± 138.5
pull
Entries 85
Mean 82.72
Std Dev 0

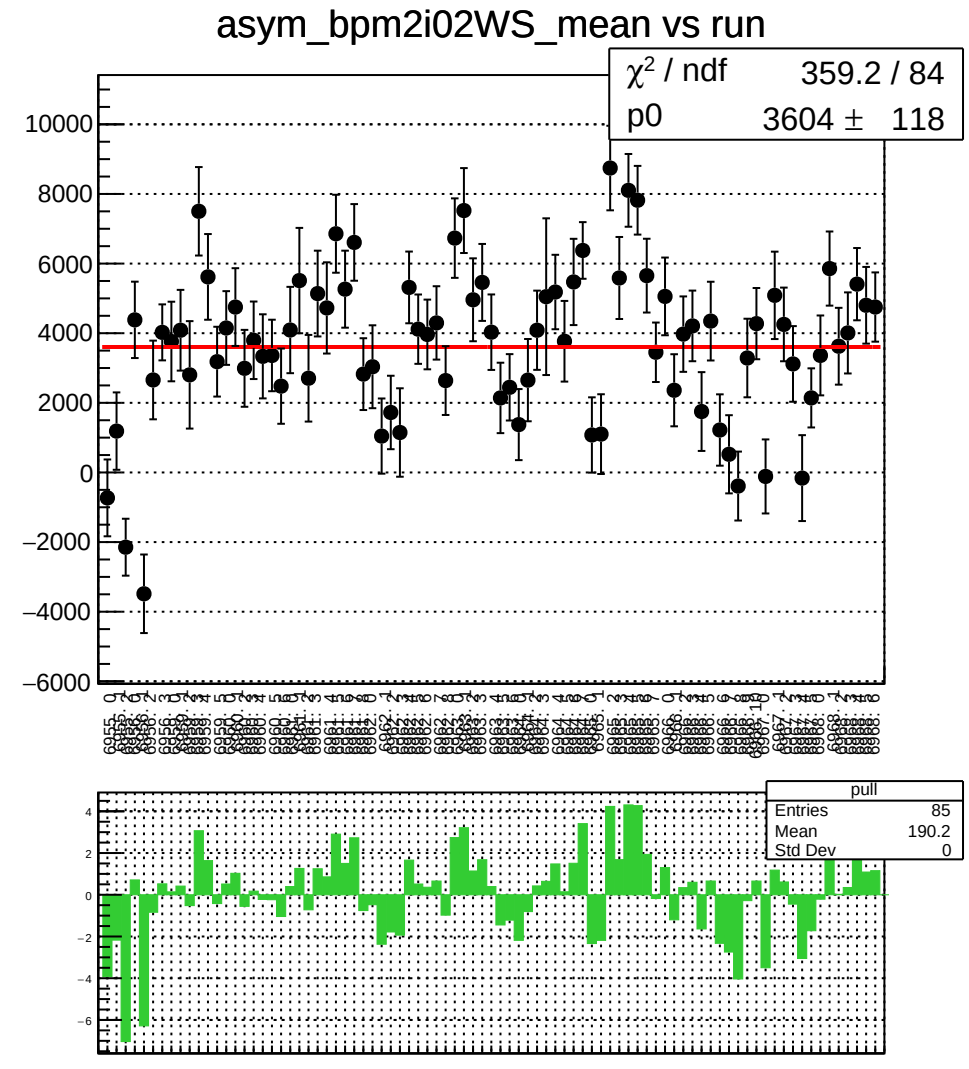

pull1D
Entries 85
Mean 0.02003
Std Dev 1.869

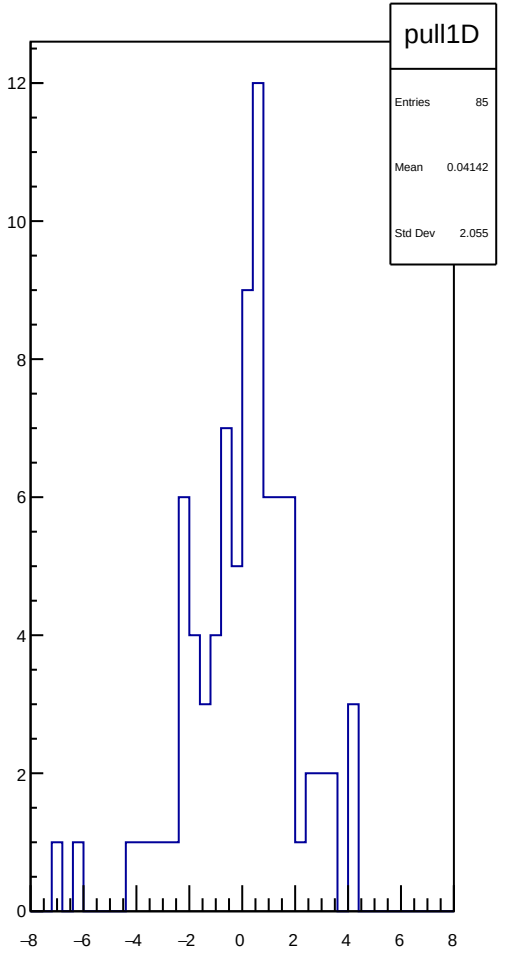

asym_bpm1i02WS_rms vs run
$\chi^2$ / ndf 1.069e+04 / 84
p0 125.1 ± 0.09796
220
200
180
160
140
120
100

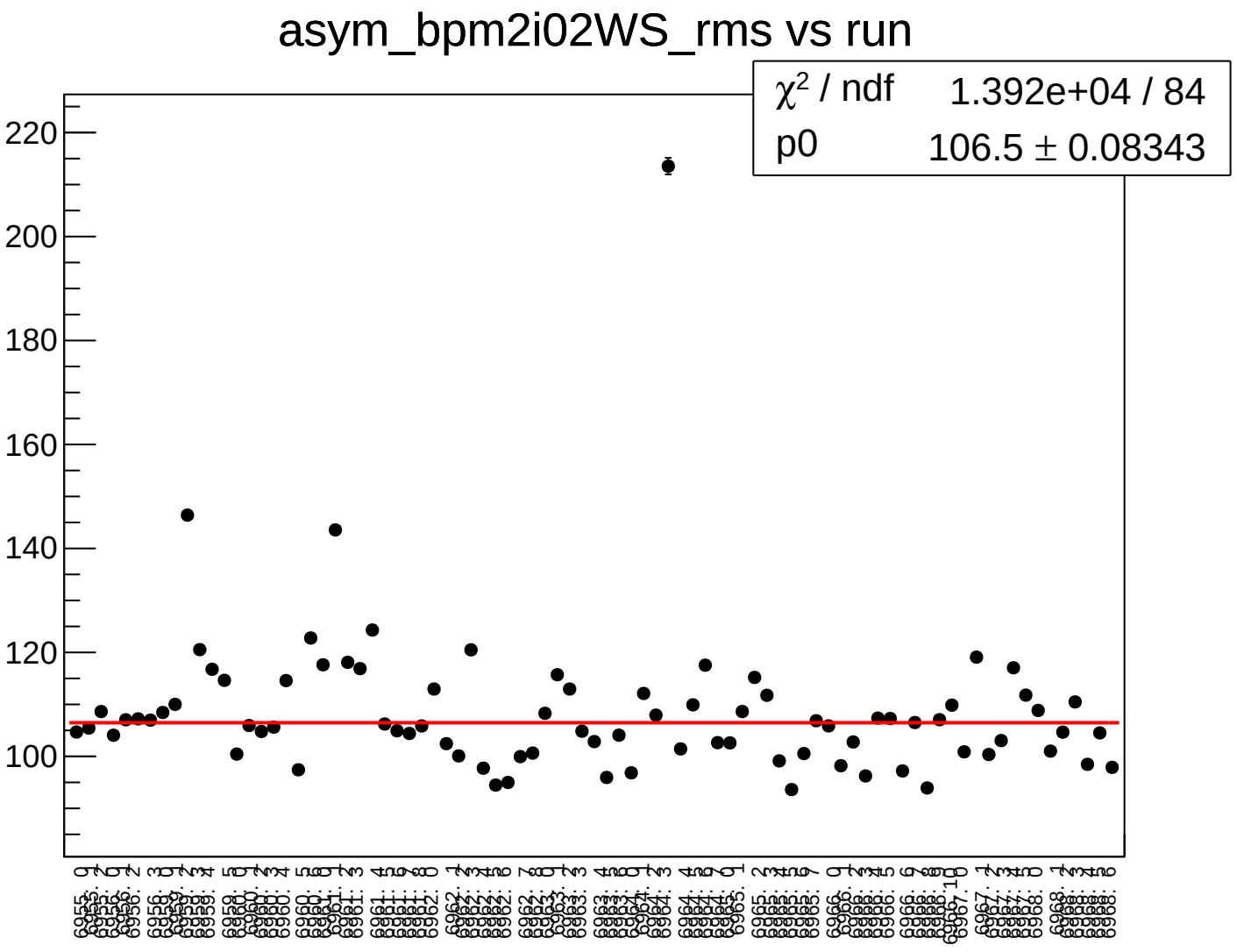

asym_bpm2i01WS_mean vs run
χ² / ndf 362.2 / 84
p0 3601 ± 119
pull
Entries 85
Mean 246.4
Std Dev 0

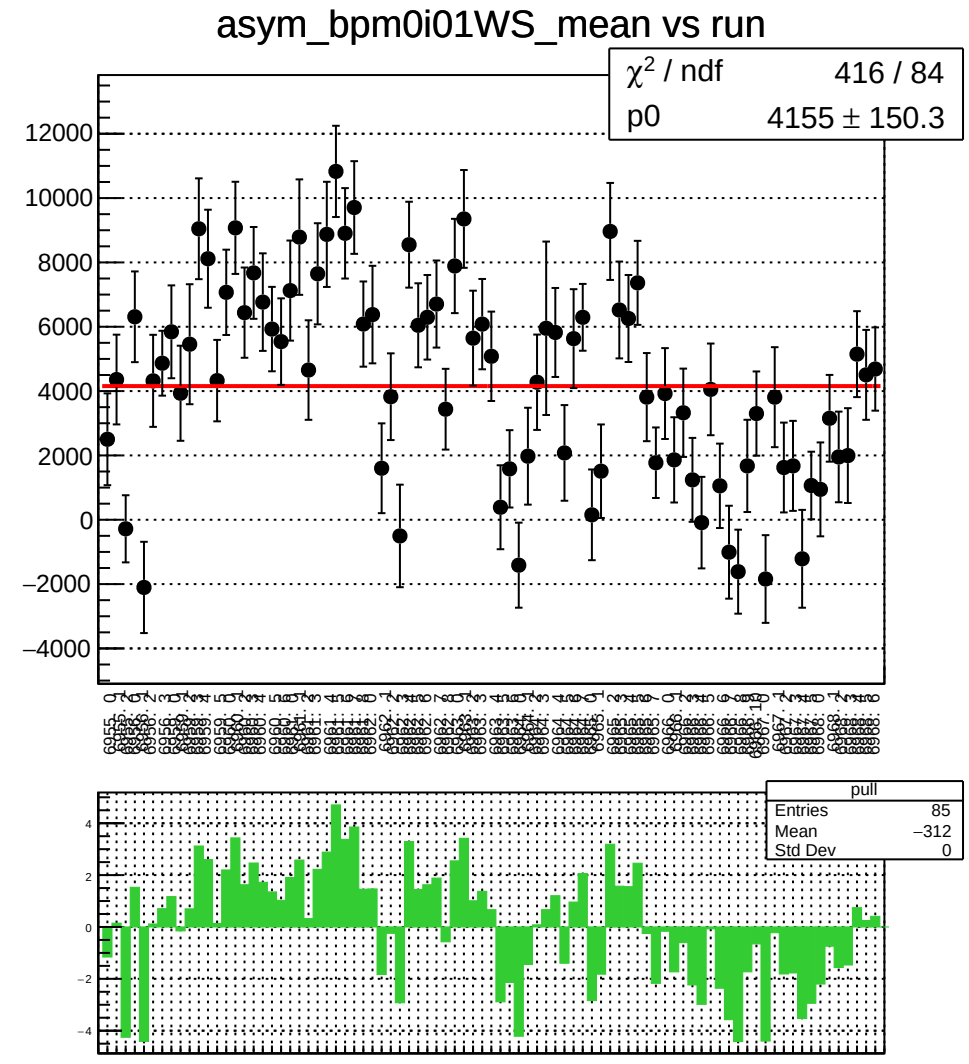

pull1D
Entries 85
Mean 0.02295
Std Dev 2.064

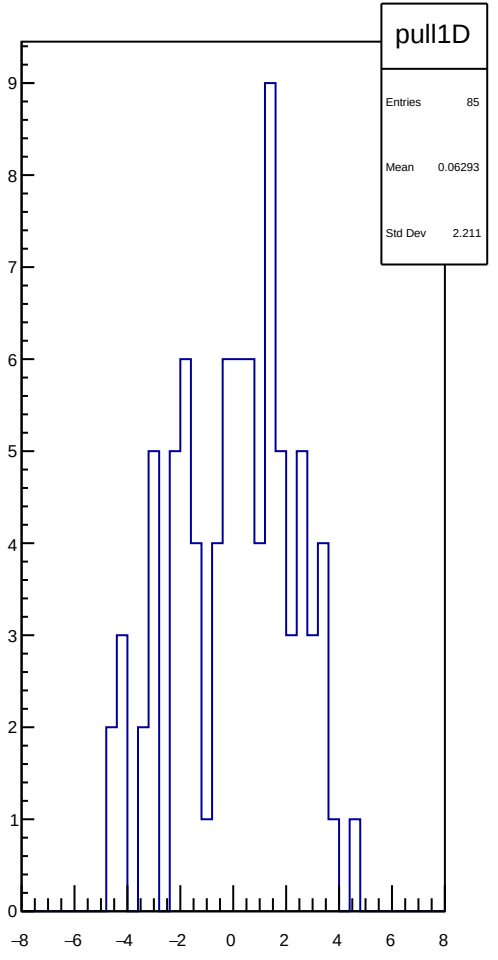

asym_bpm2i01WS_rms vs run
χ² / ndf 1.2e+04 / 84
p0 107.4 ± 0.08412
220
200
180
160
140
120
100

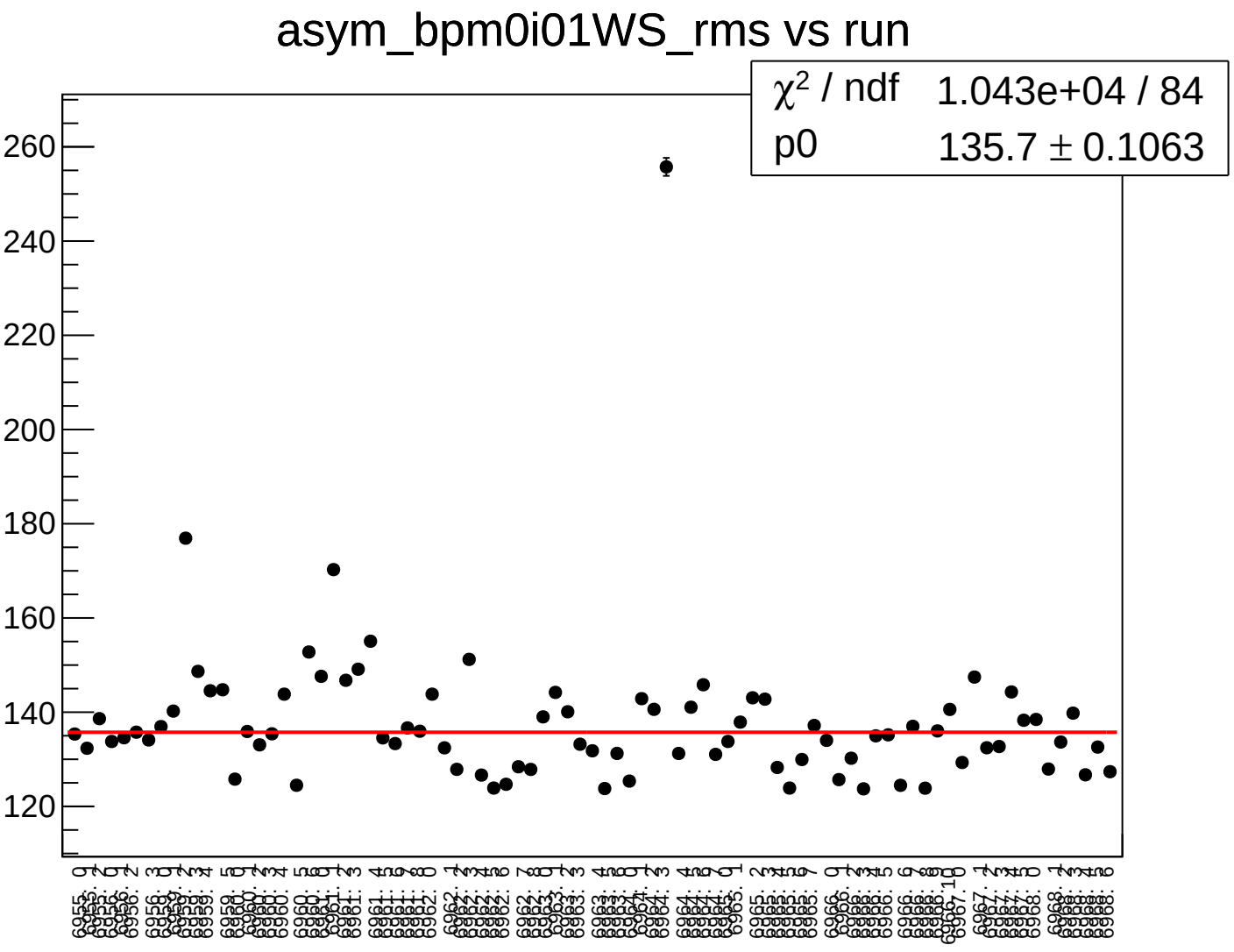

asym_bpm2i02WS_mean vs run
χ² / ndf 359.2 / 84
p0 3604 ± 118
pull
Entries 85
Mean 190.2
Std Dev 0

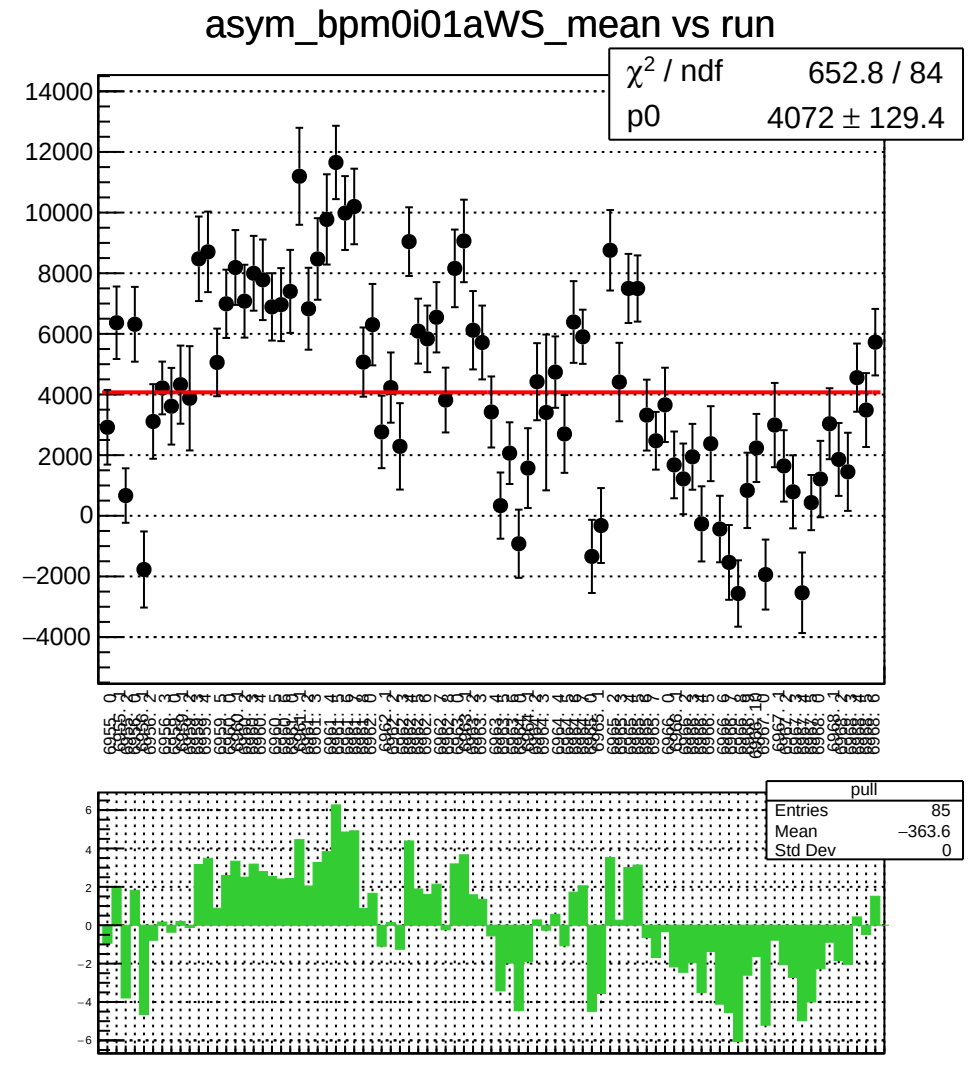

pull1D
Entries 85
Mean 0.04142
Std Dev 2.055

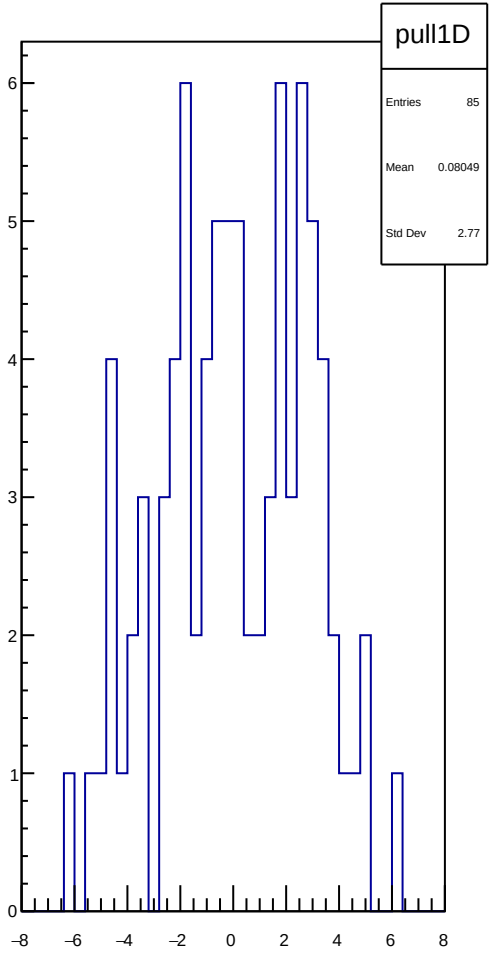

asym_bpm2i02WS_rms vs run
$\chi^2$ / ndf 1.392e+04 / 84
p0 106.5 ± 0.08343
220
200
180
160
140
120
100

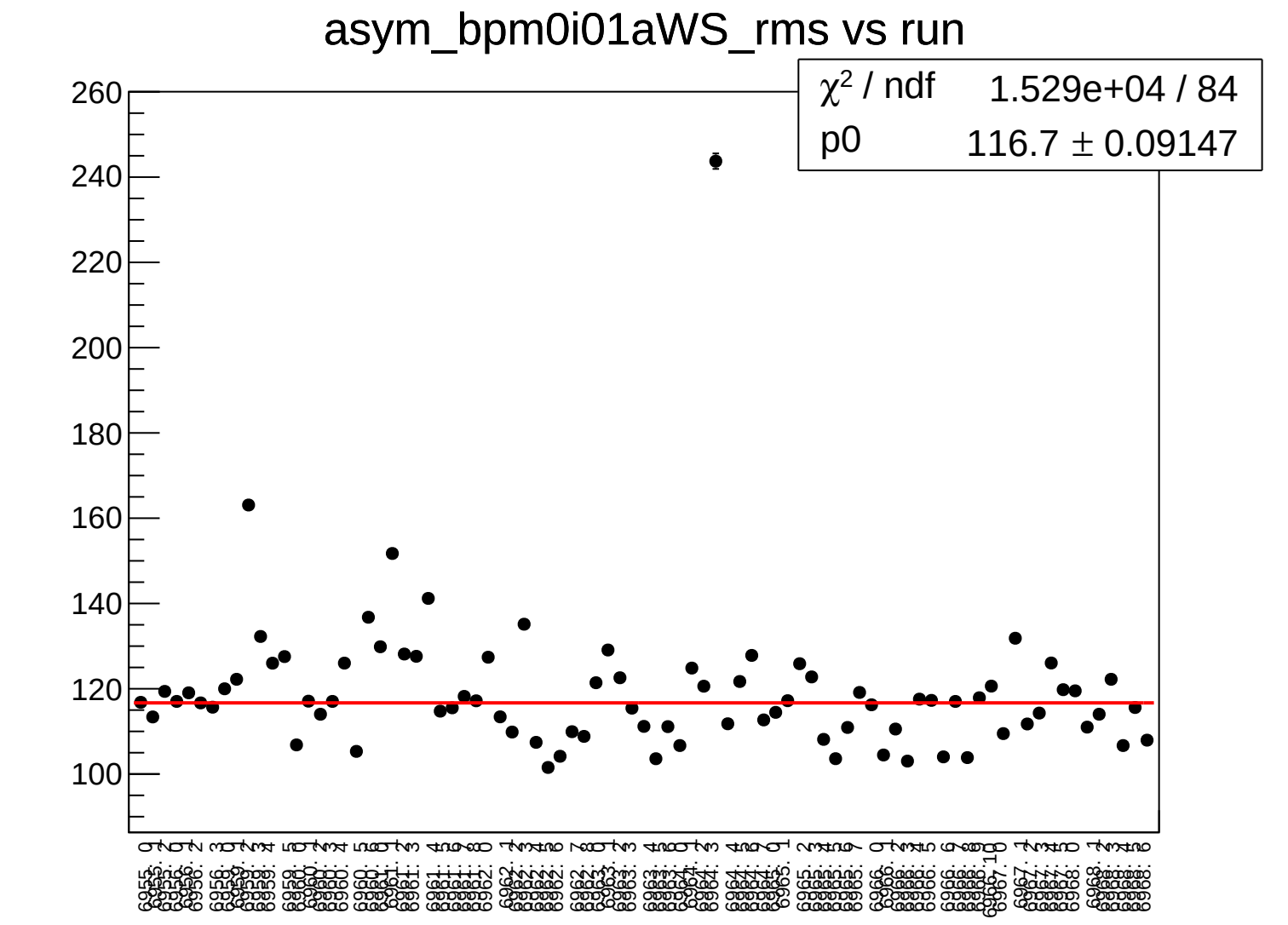

asym_bpm0i01WS_mean vs run
χ² / ndf 416 / 84
p0 4155 ± 150.3
pull
Entries 85
Mean −312
Std Dev 0

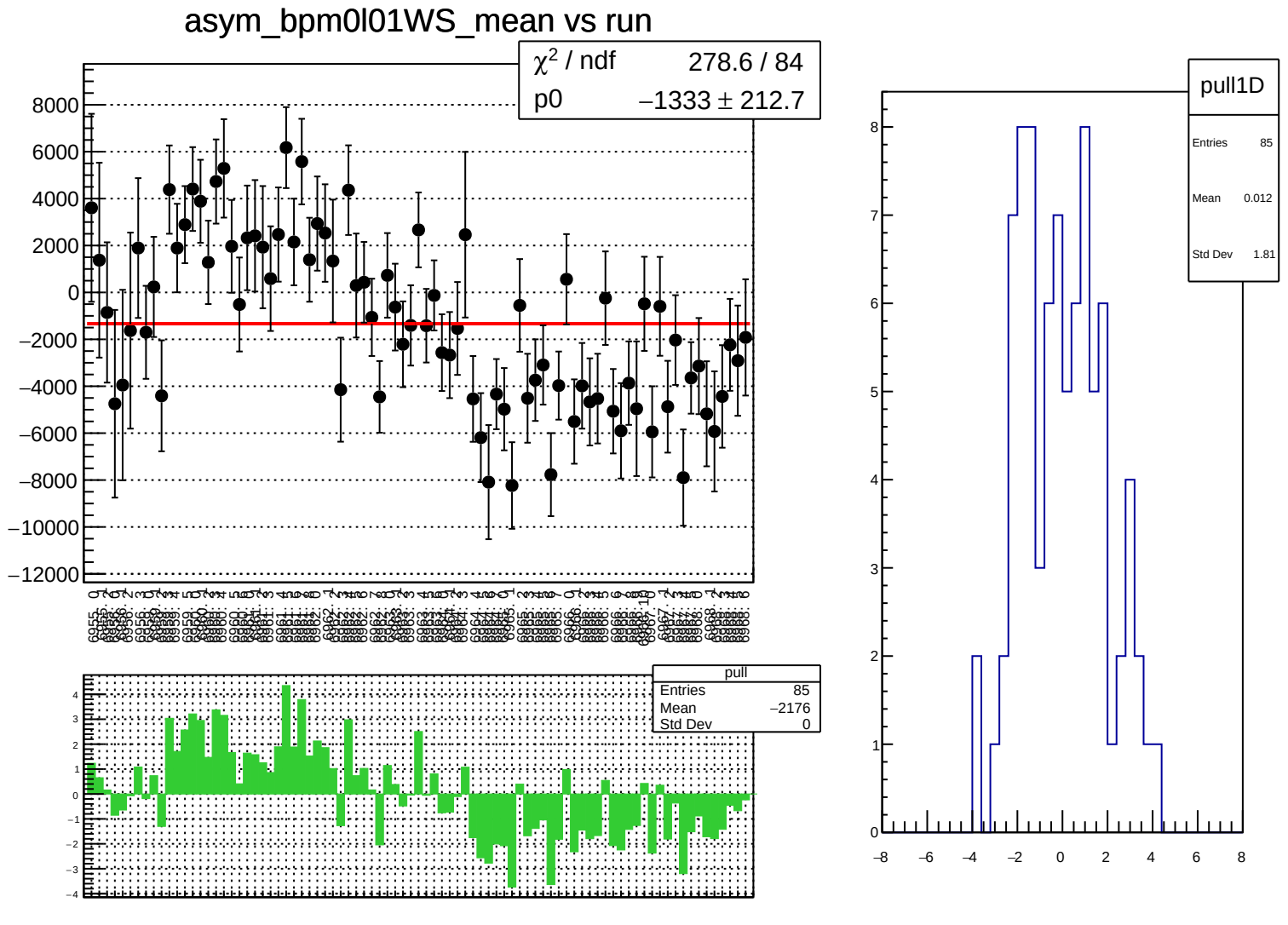

pull1D
Entries 85
Mean 0.06293
Std Dev 2.211

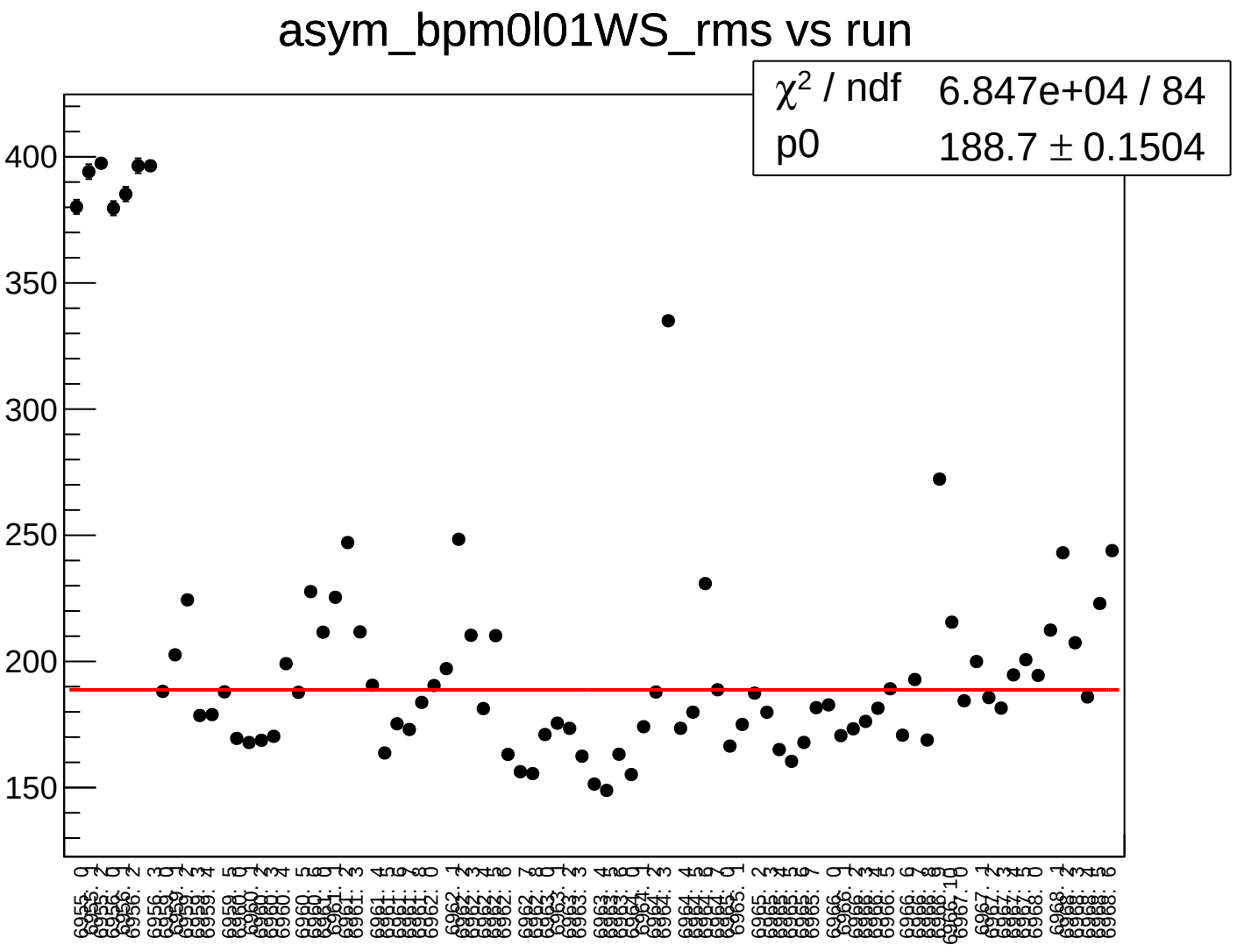

asym_bpm0i01WS_rms vs run
χ² / ndf 1.043e+04 / 84
p0 135.7 ± 0.1063
260
240
220
200
180
160
140
120

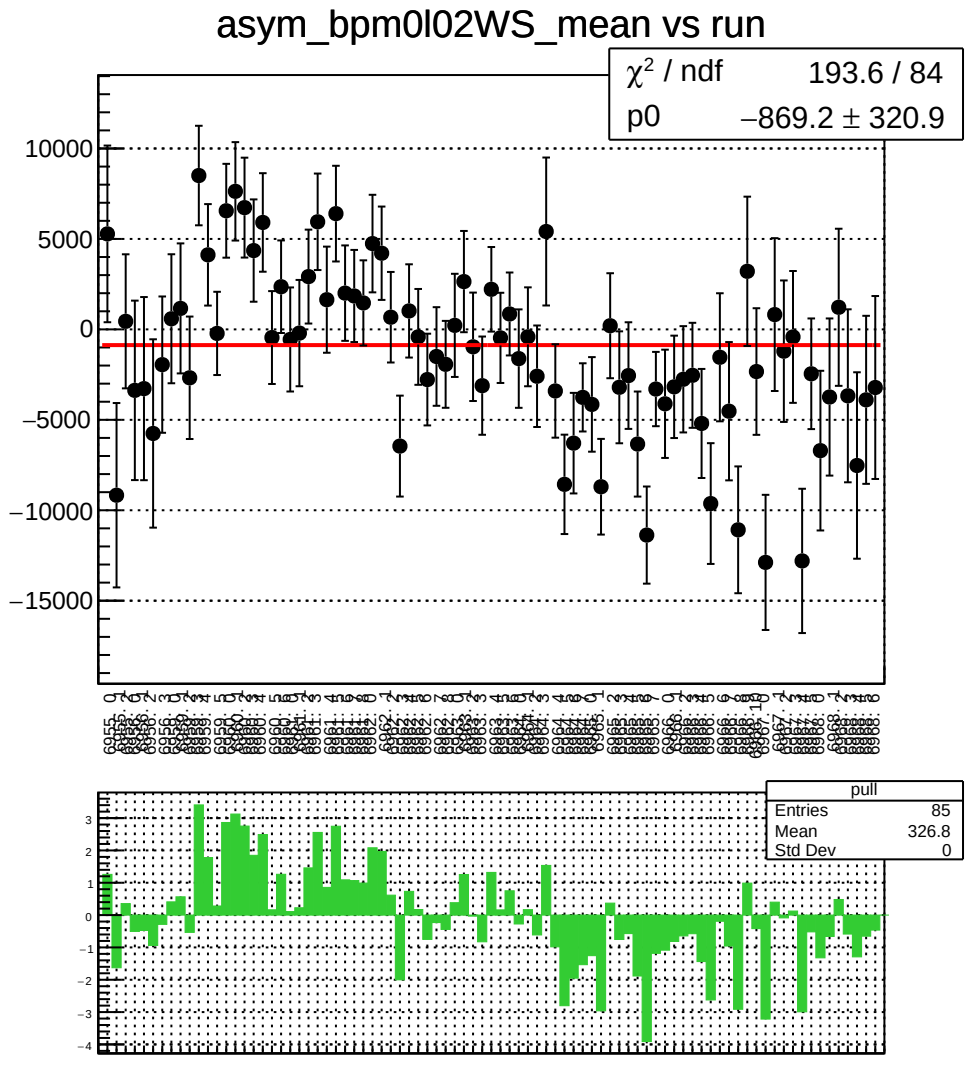

asym_bpm0i01aWS_mean vs run
χ² / ndf 652.8 / 84
p0 4072 ± 129.4
pull
Entries 85
Mean −363.6
Std Dev 0

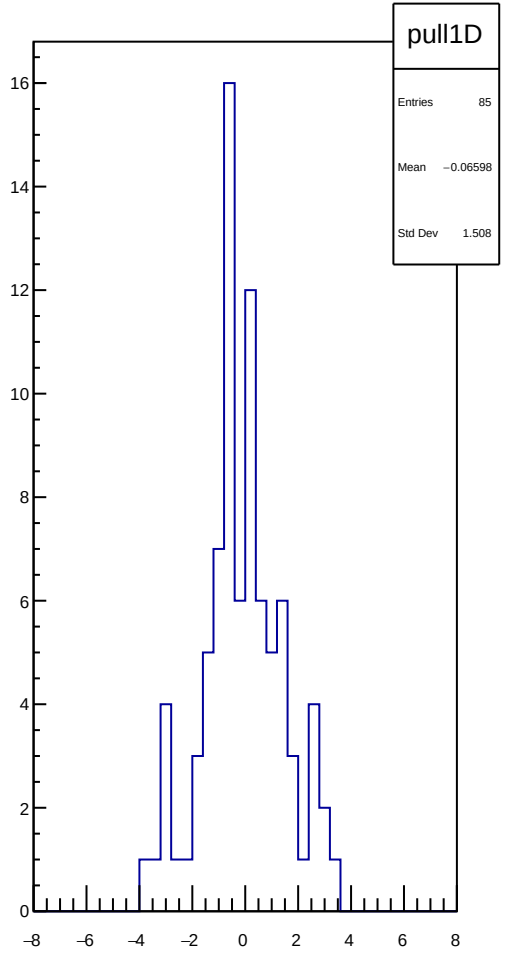

pull1D
Entries 85
Mean 0.08049
Std Dev 2.77

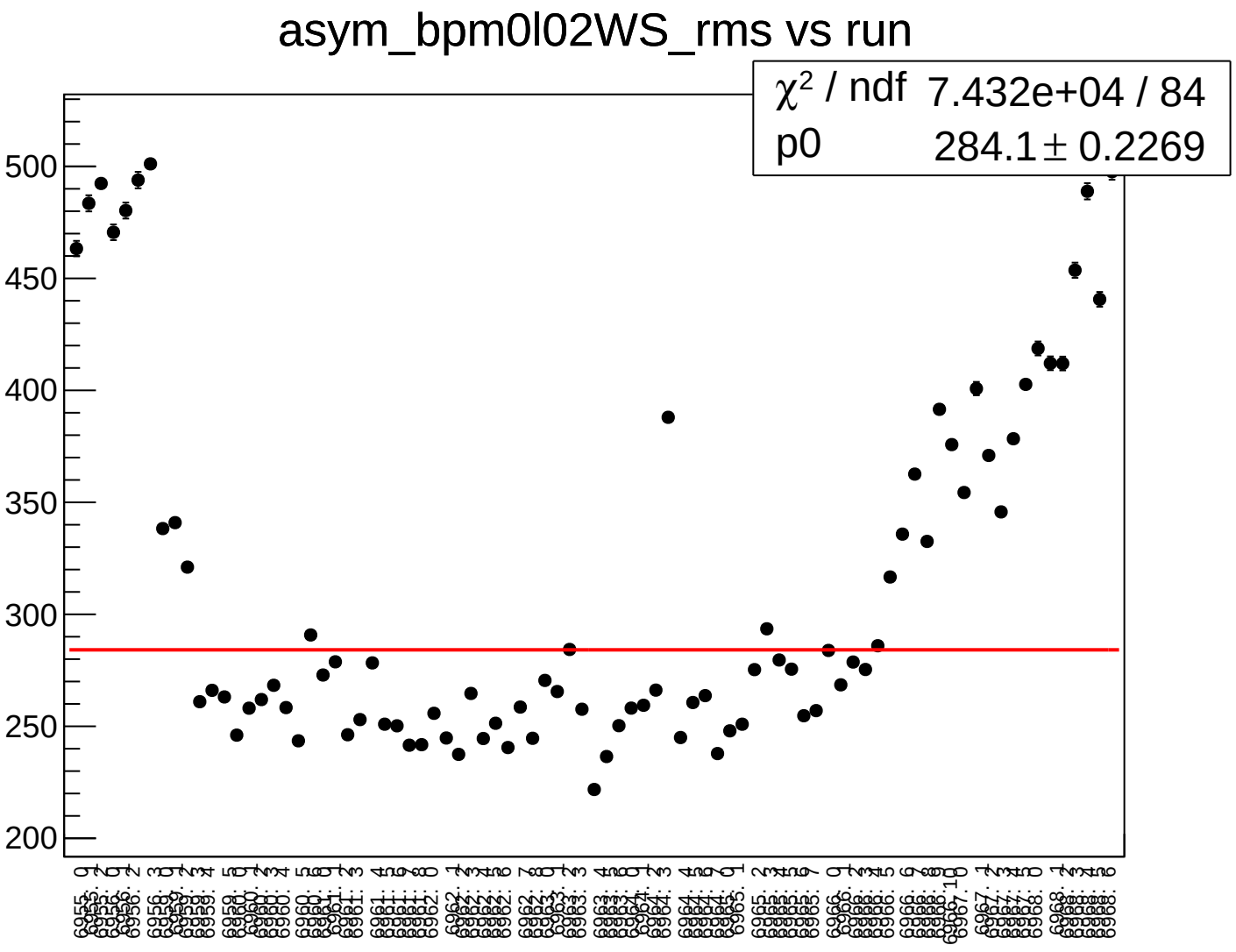

asym_bpm0i01aWS_rms vs run
$\chi^2$ / ndf 1.529e+04 / 84
p0 116.7 ± 0.09147
260
240
220
200
180
160
140
120
100

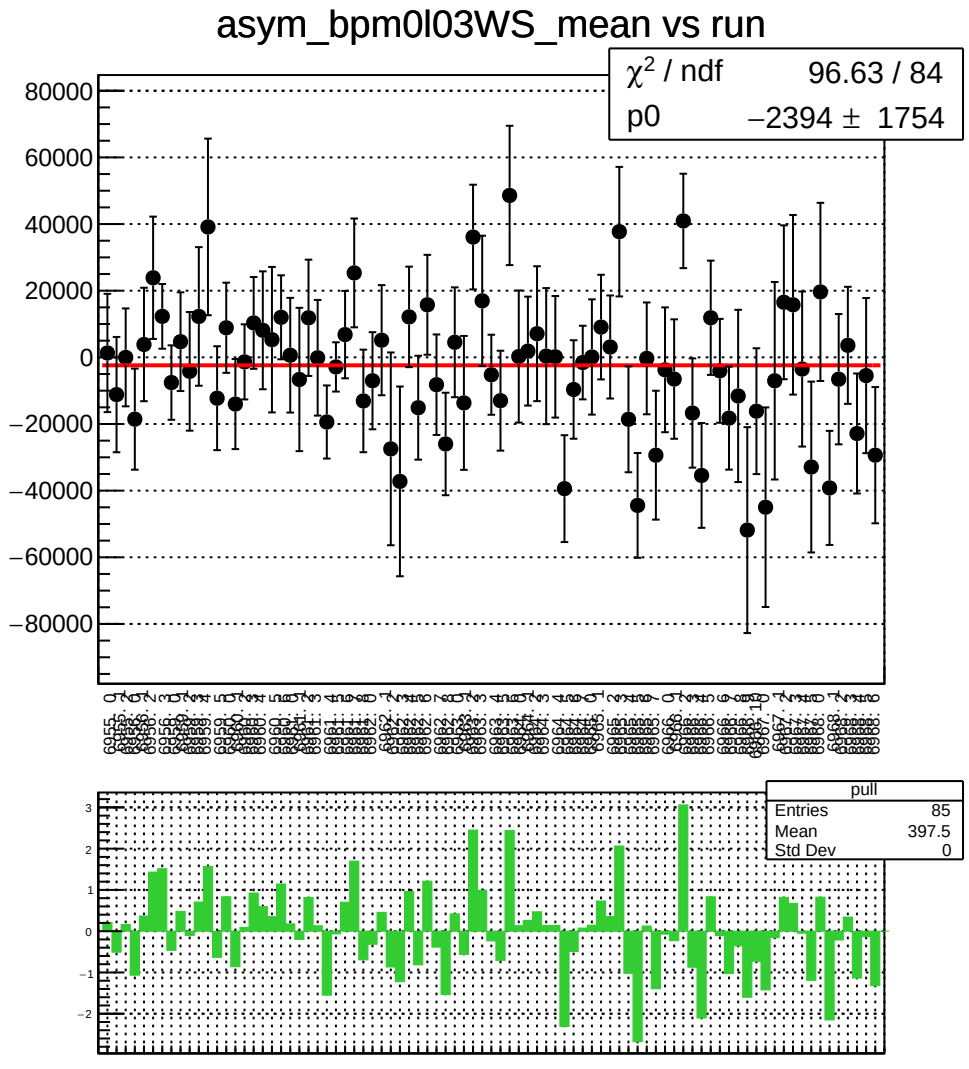

asym_bpm0l01WS_mean vs run
χ² / ndf 278.6 / 84
p0 −1333 ± 212.7
pull
Entries 85
Mean −2176
Std Dev 0
pull1D
Entries 85
Mean 0.012
Std Dev 1.81

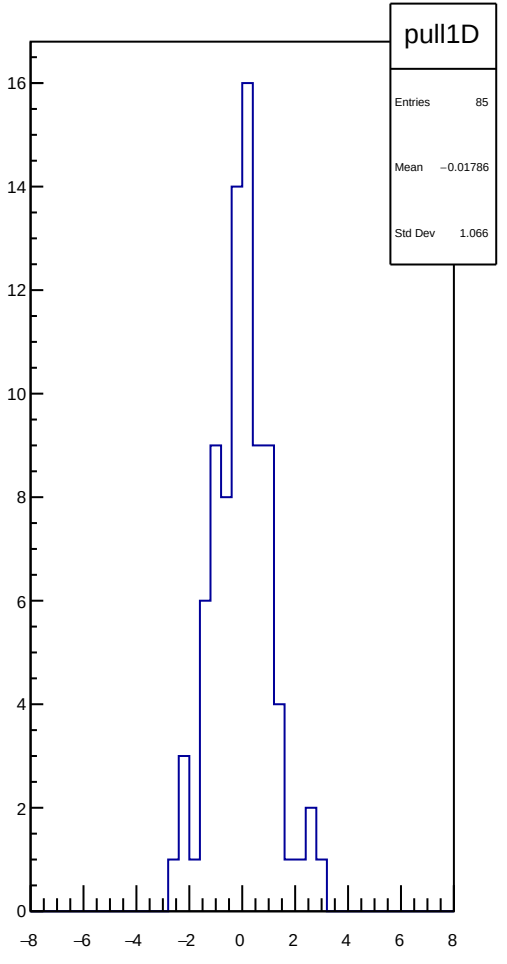

asym_bpm0l01WS_rms vs run
χ² / ndf 6.847e+04 / 84
p0 188.7 ± 0.1504
400
350
300
250
200
150

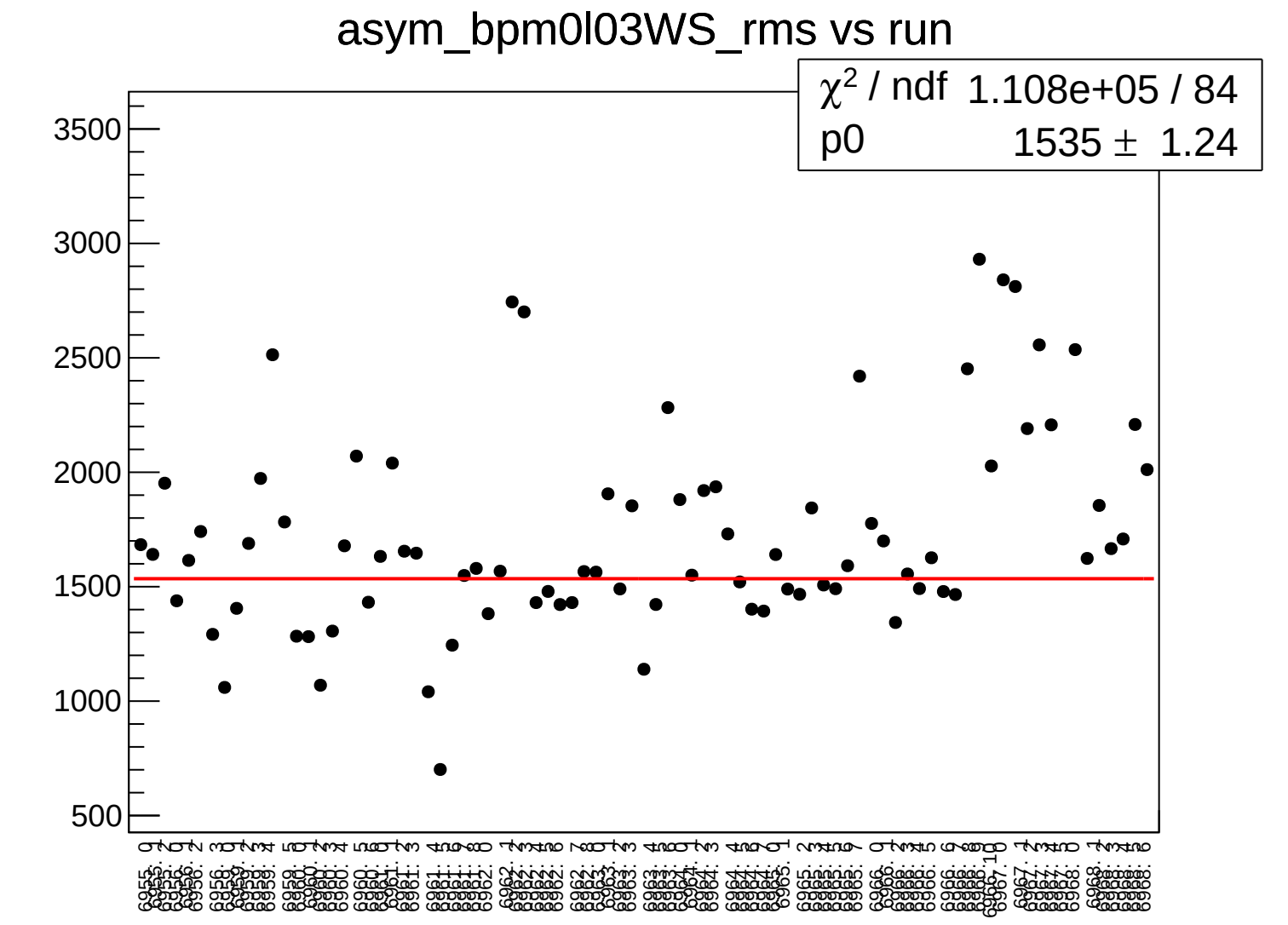

asym_bpm0l02WS_mean vs run
χ² / ndf 193.6 / 84
p0 −869.2 ± 320.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 326.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4

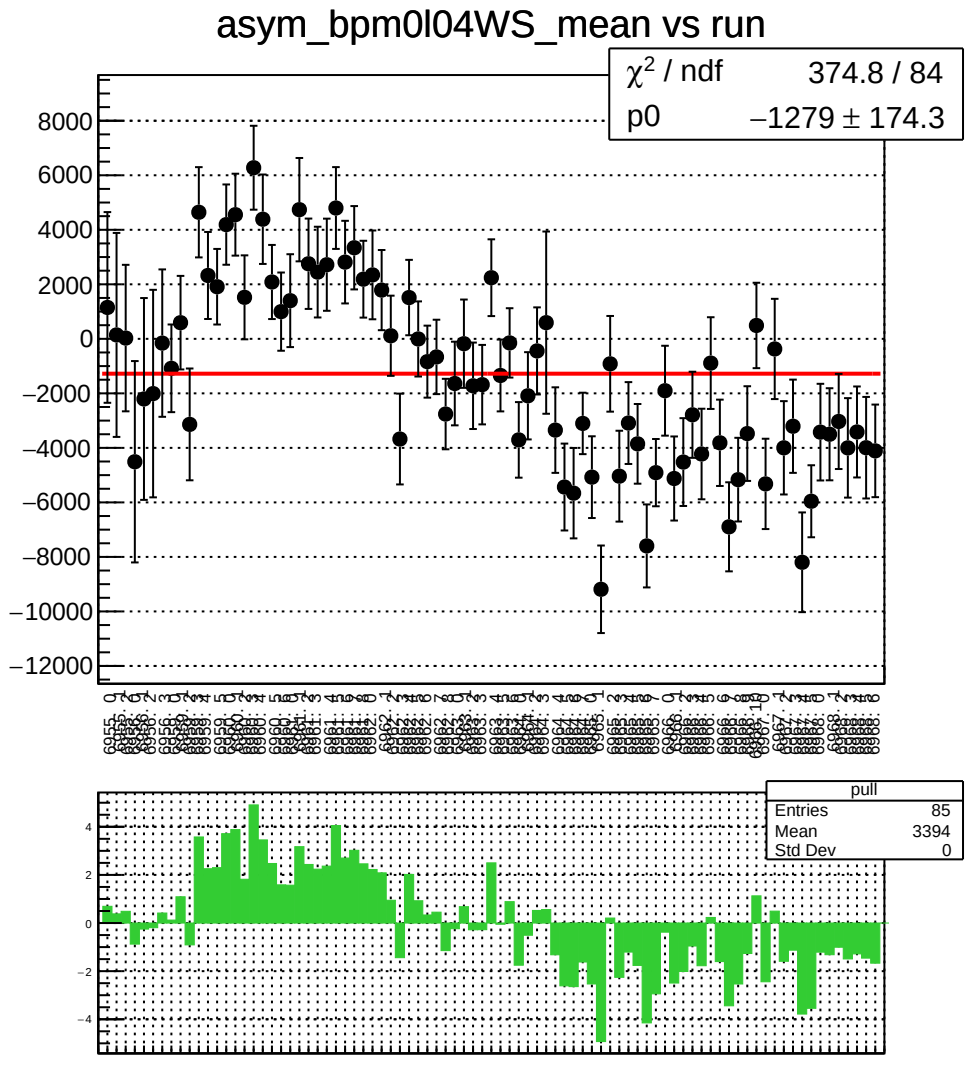

pull1D
Entries 85
Mean −0.06598
Std Dev 1.508
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

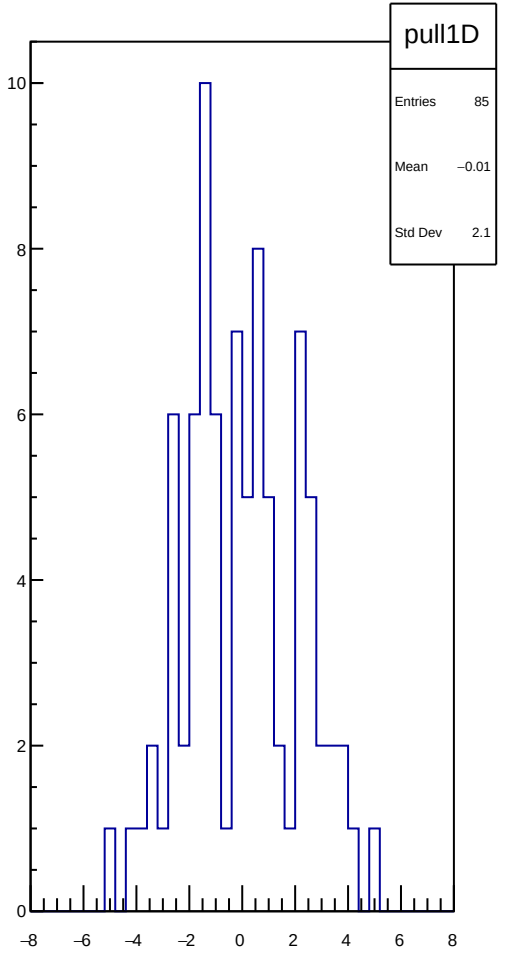

asym_bpm0l02WS_rms vs run
χ² / ndf 7.432e+04 / 84
p0 284.1 ± 0.2269
500
450
400
350
300
250
200

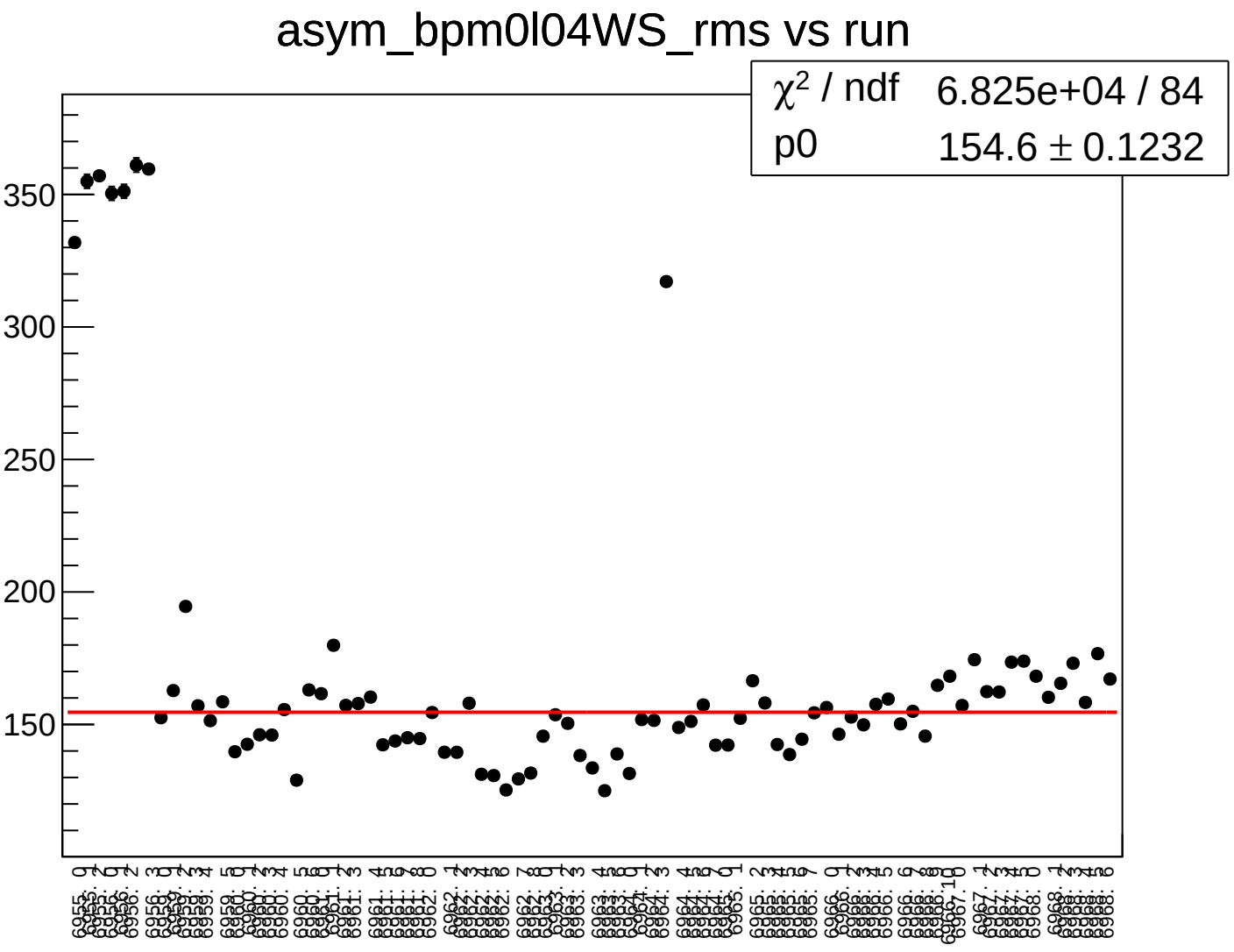

asym_bpm0l03WS_mean vs run
χ² / ndf 96.63 / 84
p0 −2394 ± 1754
pull
Entries 85
Mean 397.5
Std Dev 0

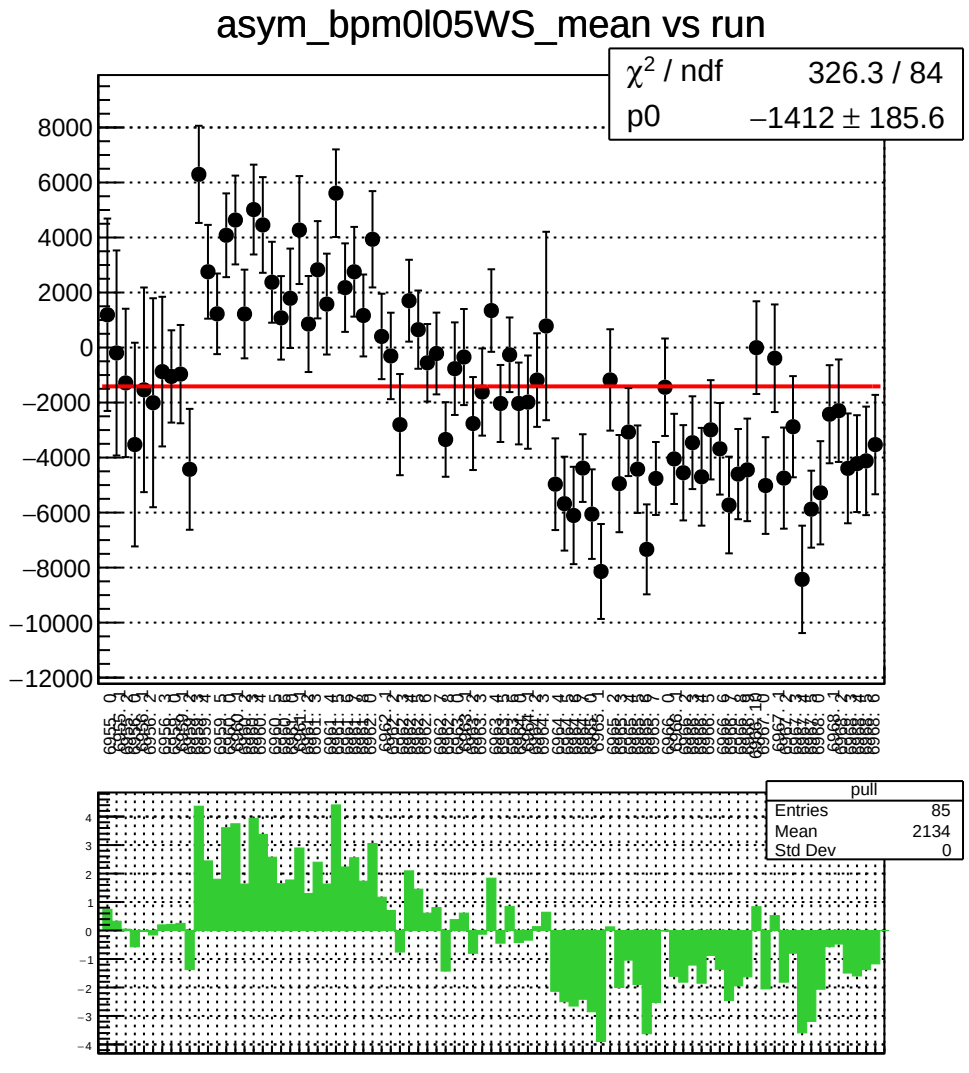

pull1D
Entries 85
Mean −0.01786
Std Dev 1.066

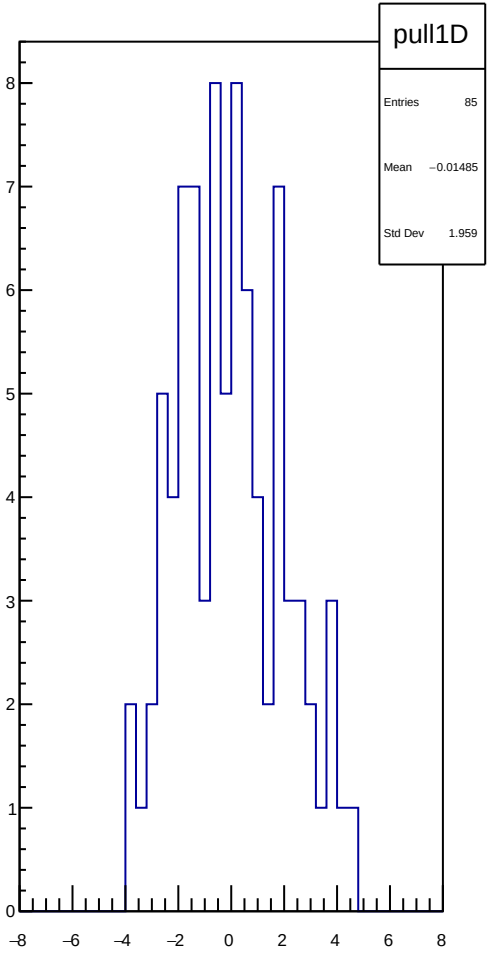

asym_bpm0l03WS_rms vs run
χ² / ndf 1.108e+05 / 84
p0 1535 ± 1.24
3500
3000
2500
2000
1500
1000
500

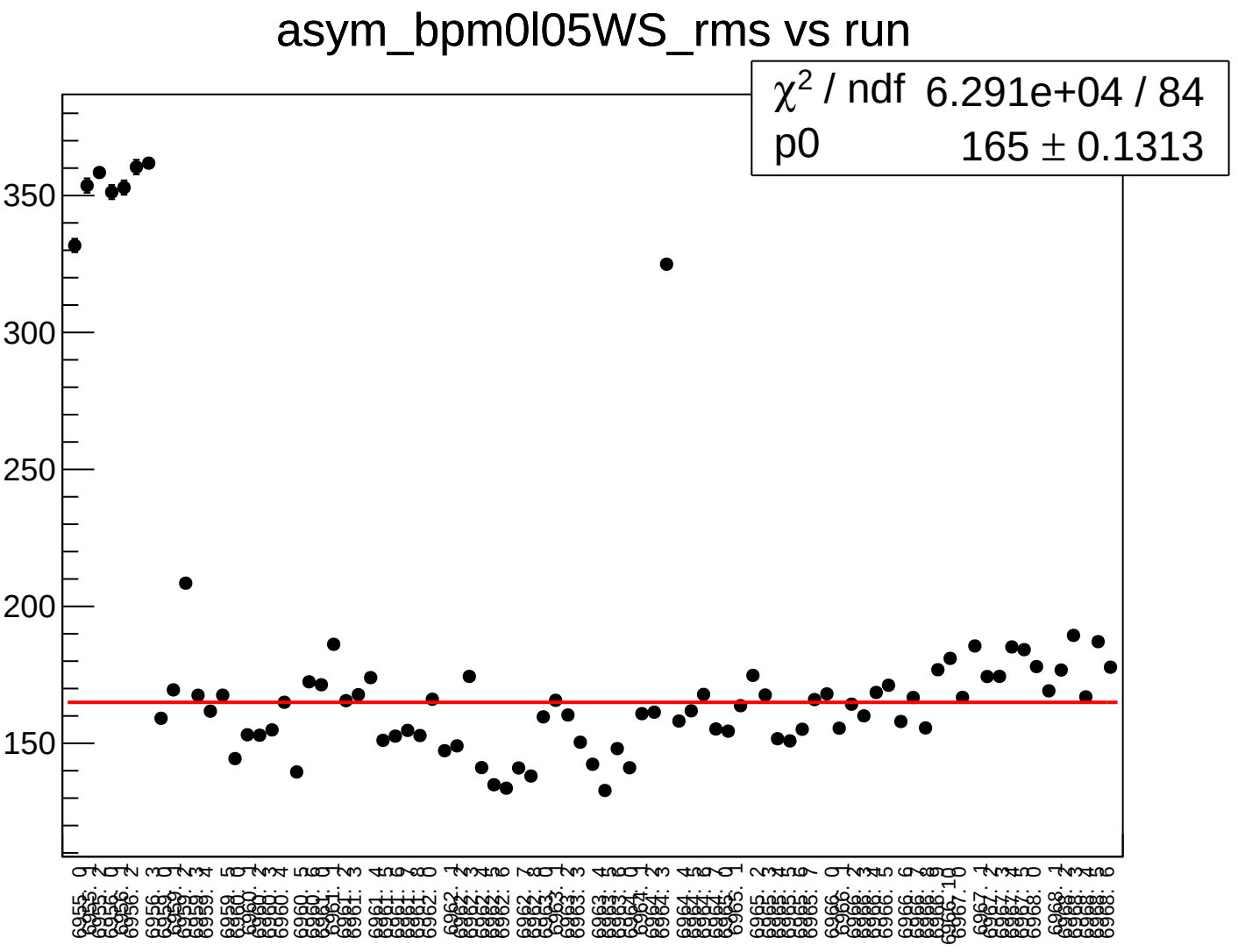

asym_bpm0l04WS_mean vs run
χ² / ndf 374.8 / 84
p0 −1279 ± 174.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull
Entries 85
Mean 3394
Std Dev 0
4
2
0
−2
−4

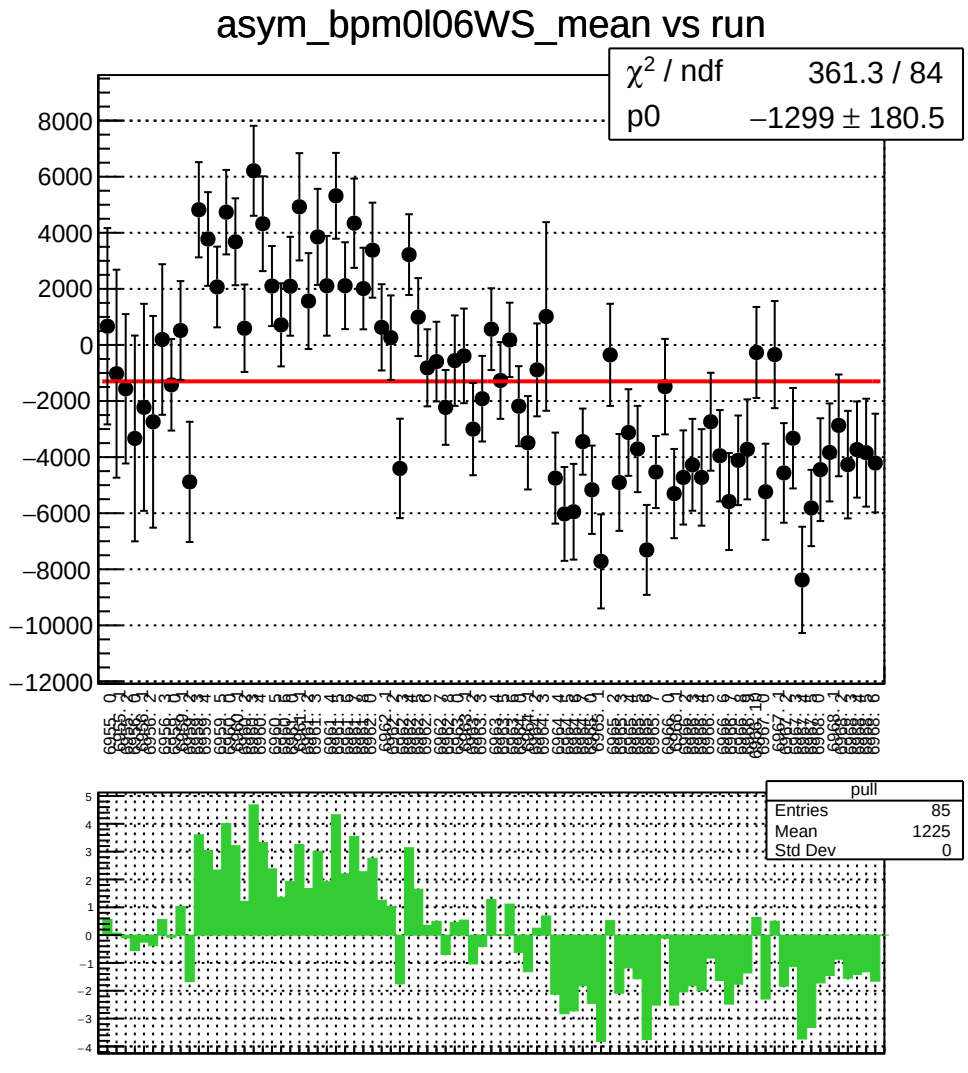

pull1D
Entries 85
Mean −0.01
Std Dev 2.1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

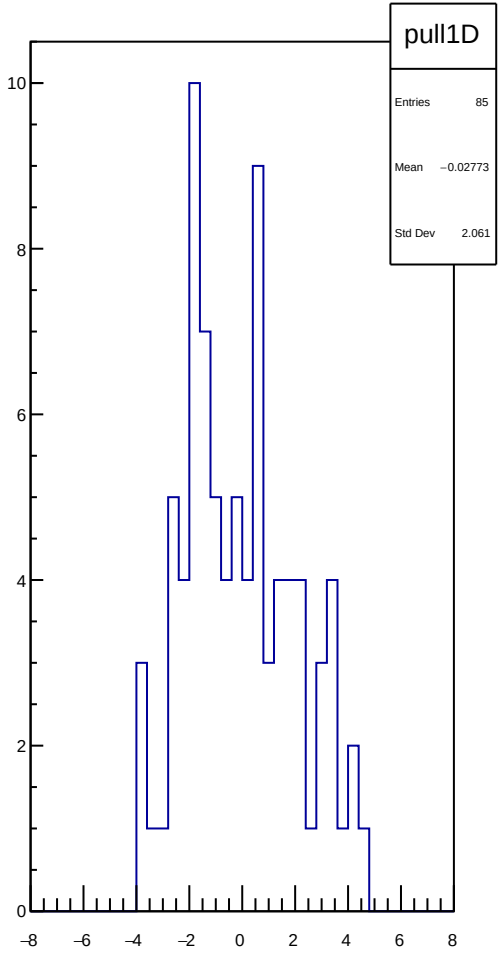

asym_bpm0l04WS_rms vs run
χ² / ndf 6.825e+04 / 84
p0 154.6 ± 0.1232
350
300
250
200
150

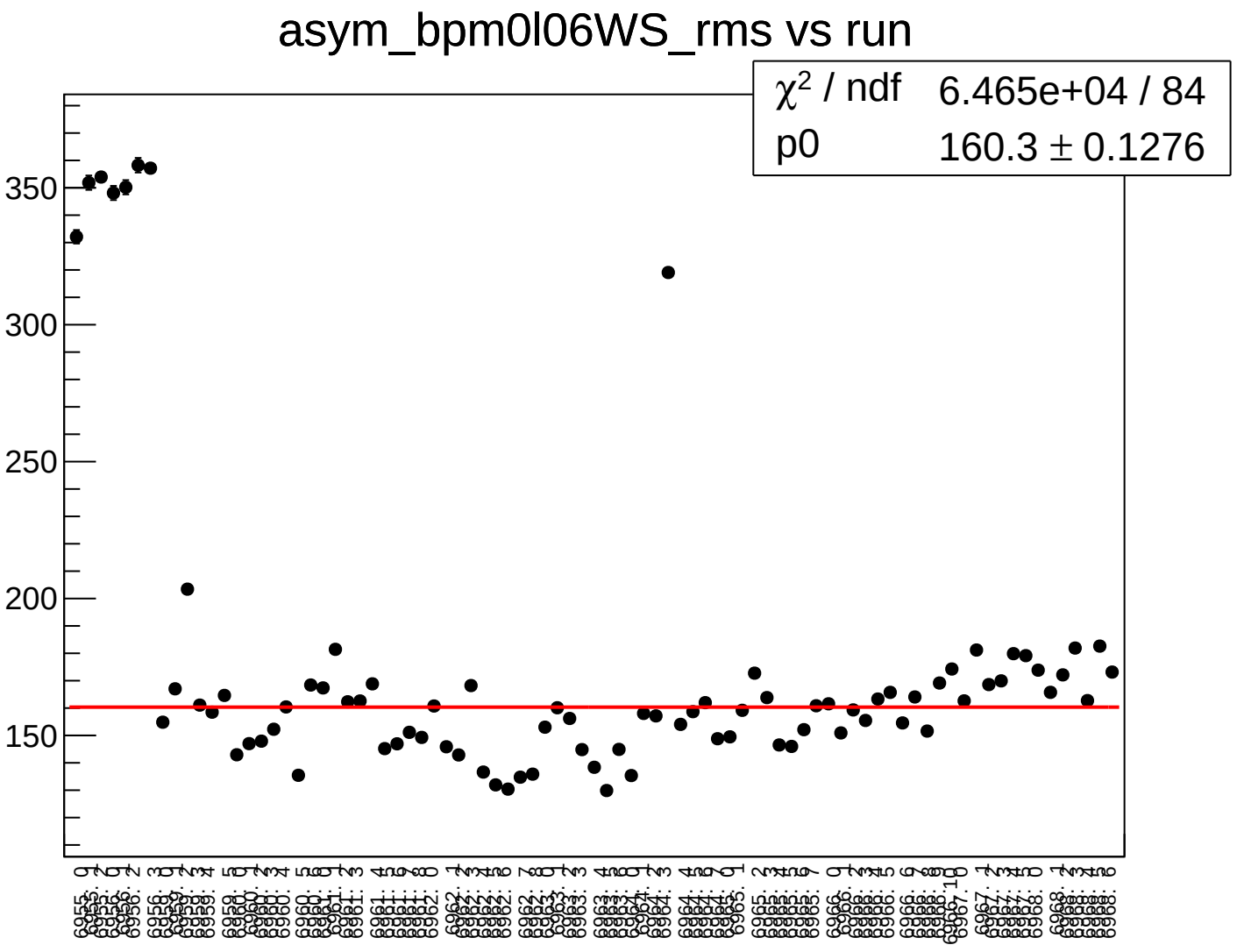

asym_bpm0l05WS_mean vs run
χ² / ndf 326.3 / 84
p0 −1412 ± 185.6
pull
Entries 85
Mean 2134
Std Dev 0

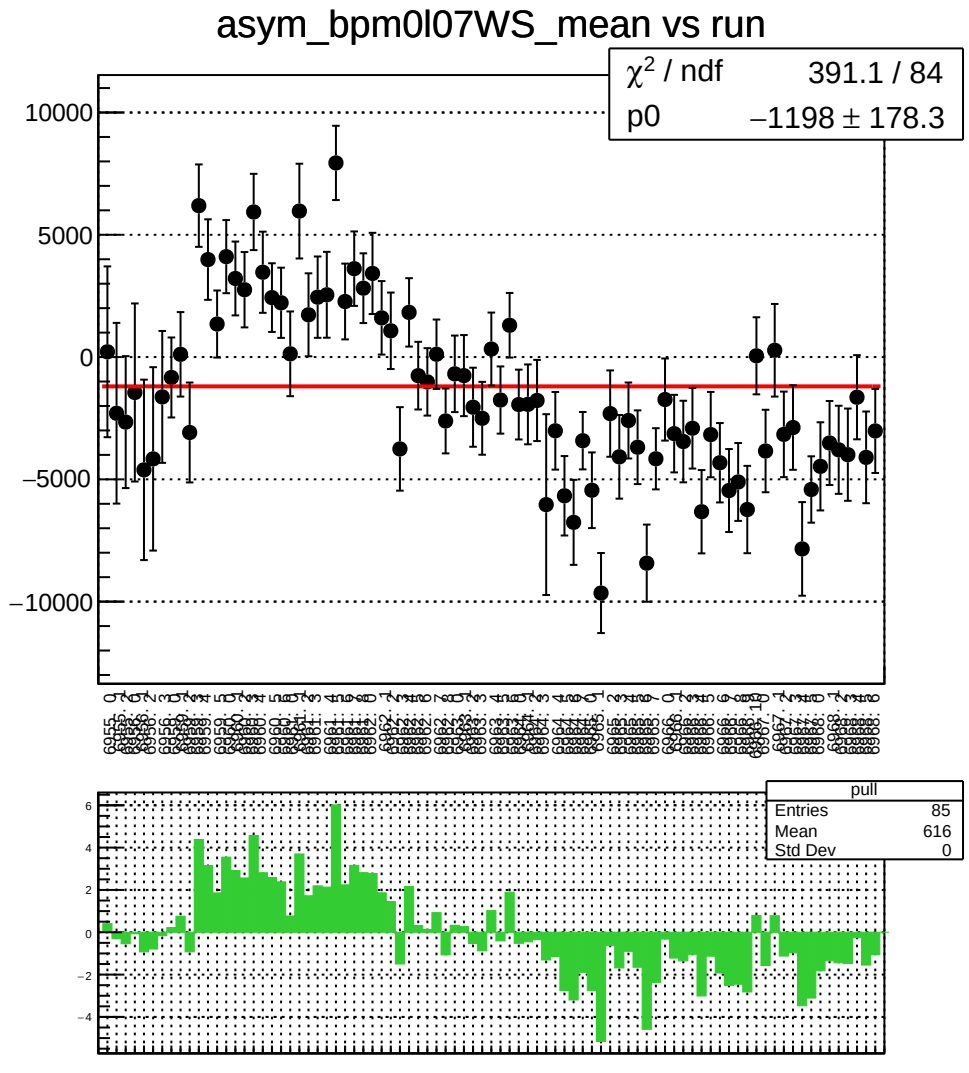

pull1D
Entries 85
Mean −0.01485
Std Dev 1.959

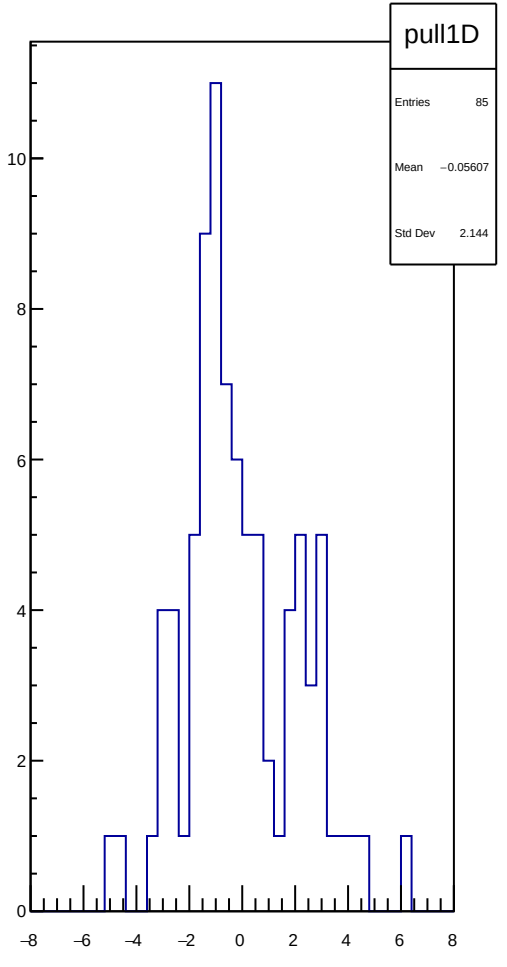

asym_bpm0l05WS_rms vs run
χ² / ndf 6.291e+04 / 84
p0 165 ± 0.1313
350
300
250
200
150

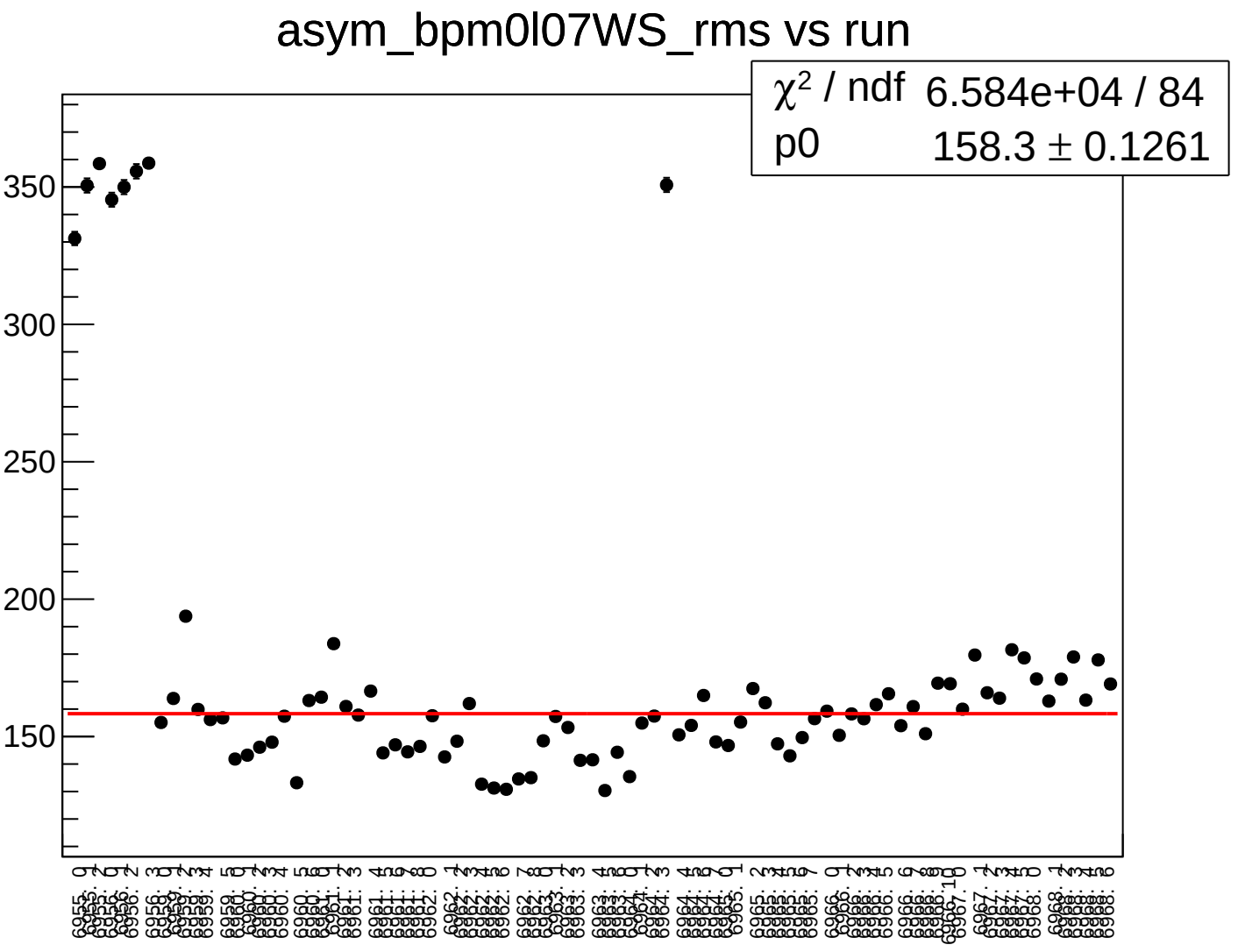

asym_bpm0l06WS_mean vs run
χ² / ndf 361.3 / 84
p0 −1299 ± 180.5
pull
Entries 85
Mean 1225
Std Dev 0

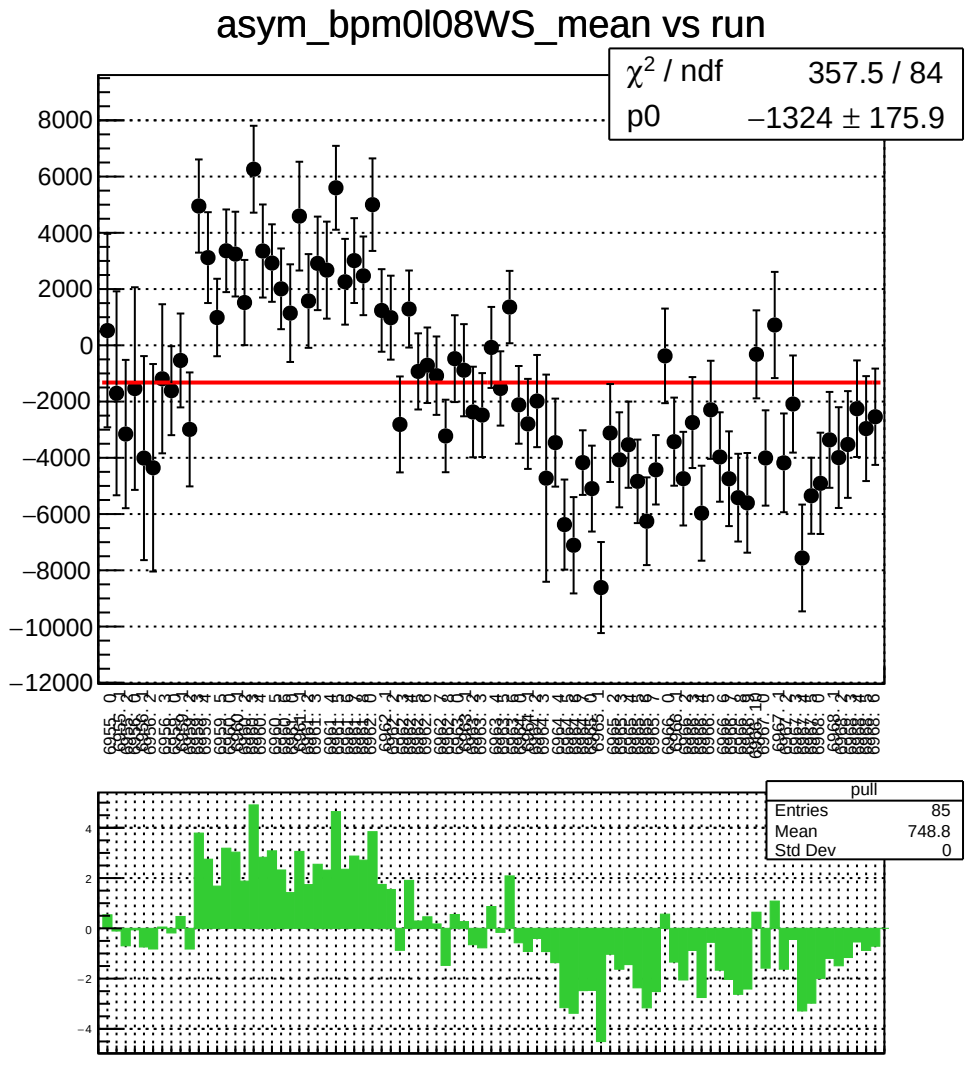

pull1D
Entries 85
Mean −0.02773
Std Dev 2.061

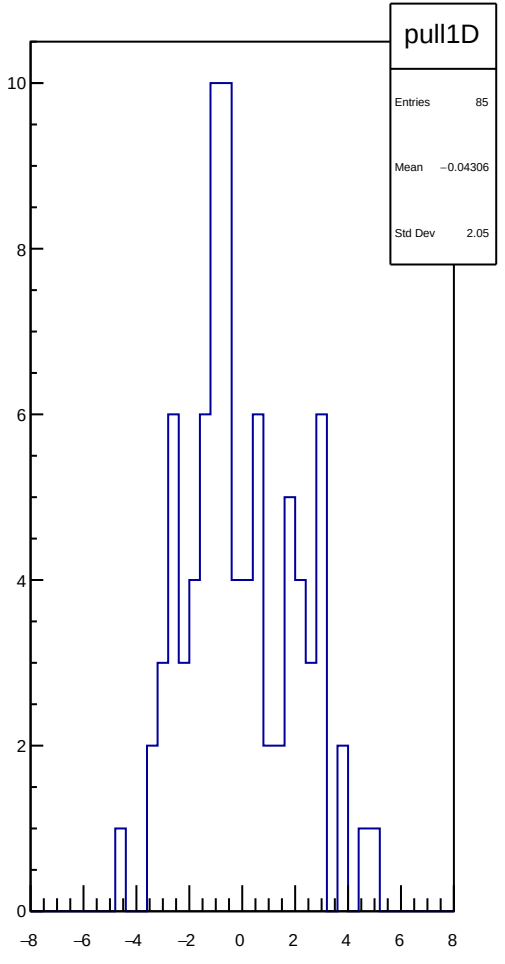

asym_bpm0l06WS_rms vs run
χ² / ndf 6.465e+04 / 84
p0 160.3 ± 0.1276
350
300
250
200
150

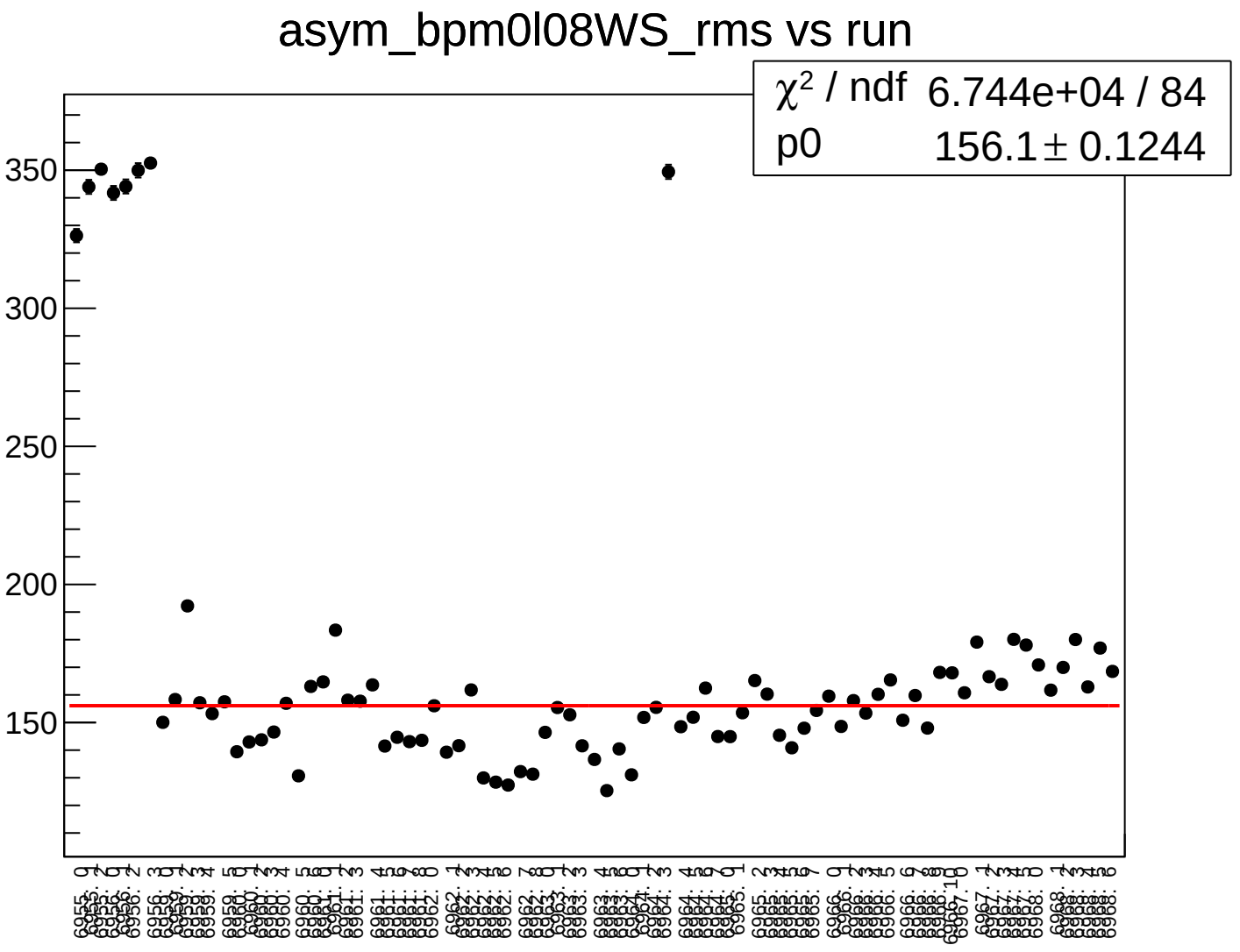

asym_bpm0l07WS_mean vs run
χ² / ndf 391.1 / 84
p0 −1198 ± 178.3
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 616
Std Dev 0
6
4
2
0
−2
−4

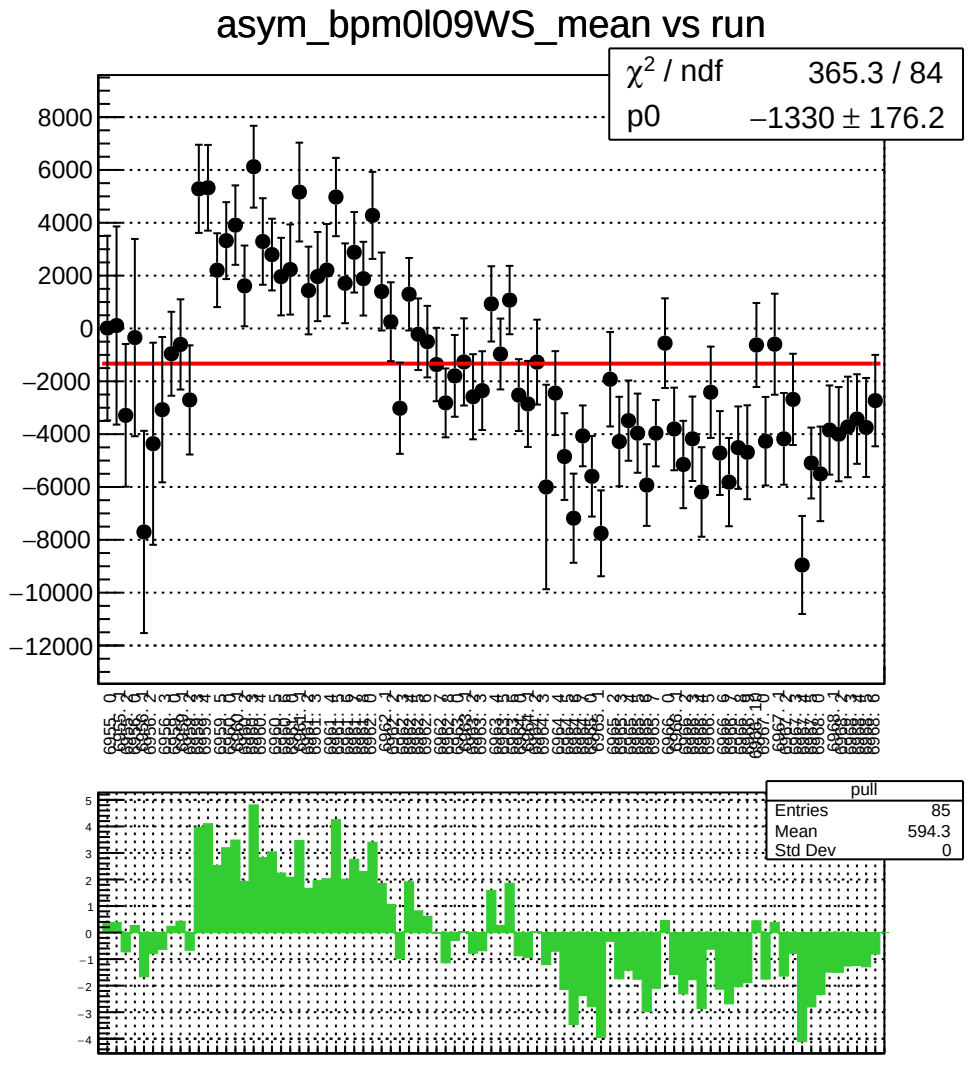

pull1D
Entries 85
Mean −0.05607
Std Dev 2.144
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

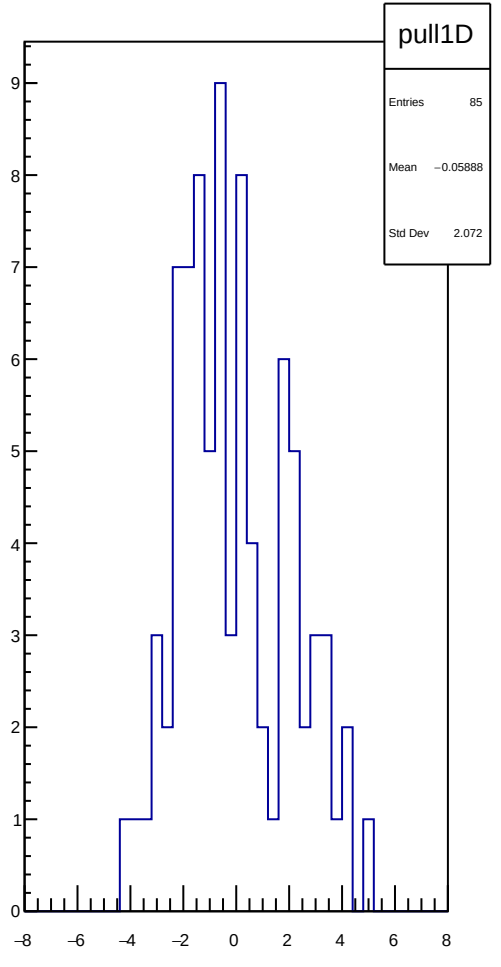

asym_bpm0l07WS_rms vs run
χ² / ndf 6.584e+04 / 84
p0 158.3 ± 0.1261
350
300
250
200
150

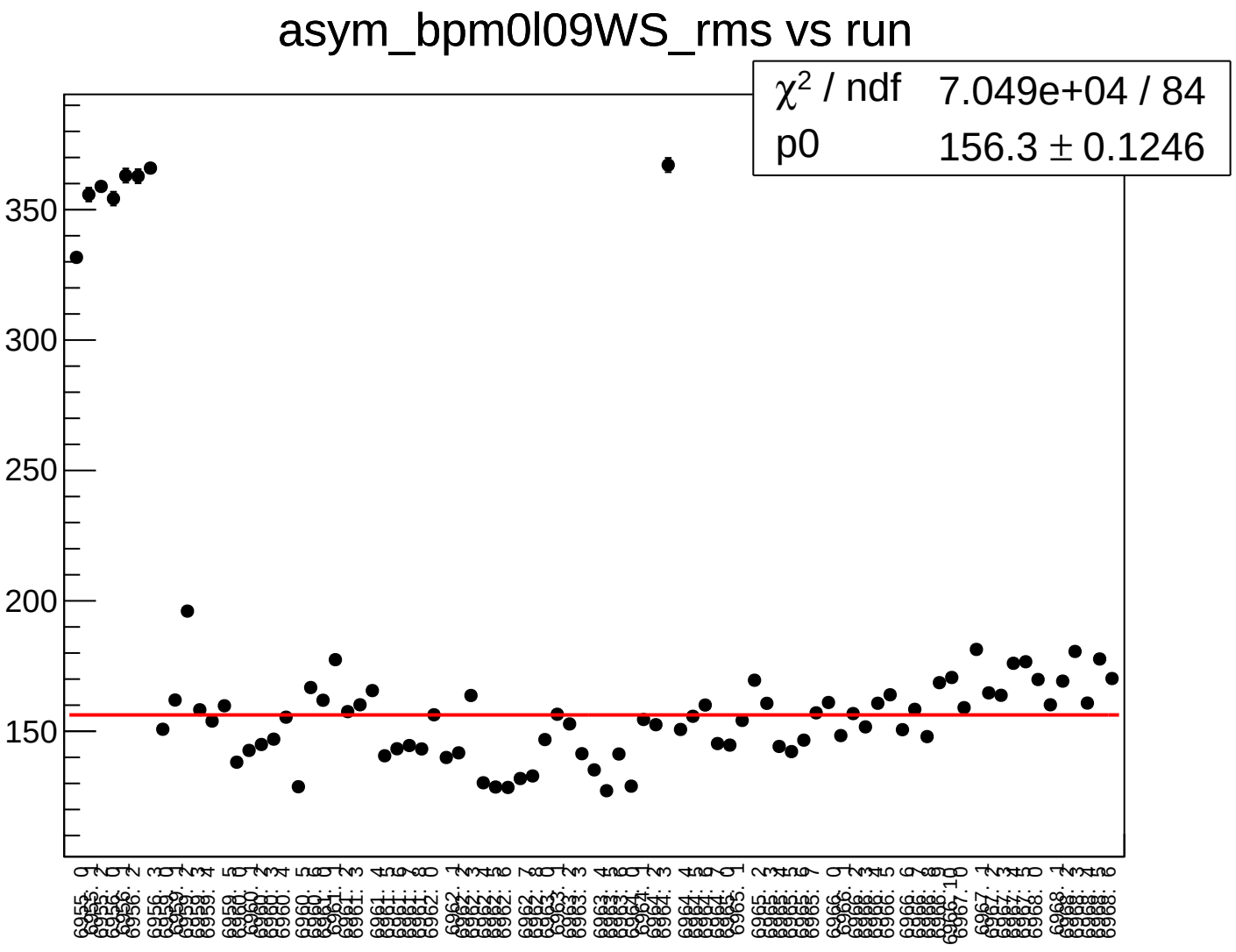

asym_bpm0l08WS_mean vs run
χ² / ndf 357.5 / 84
p0 −1324 ± 175.9
pull
Entries 85
Mean 748.8
Std Dev 0

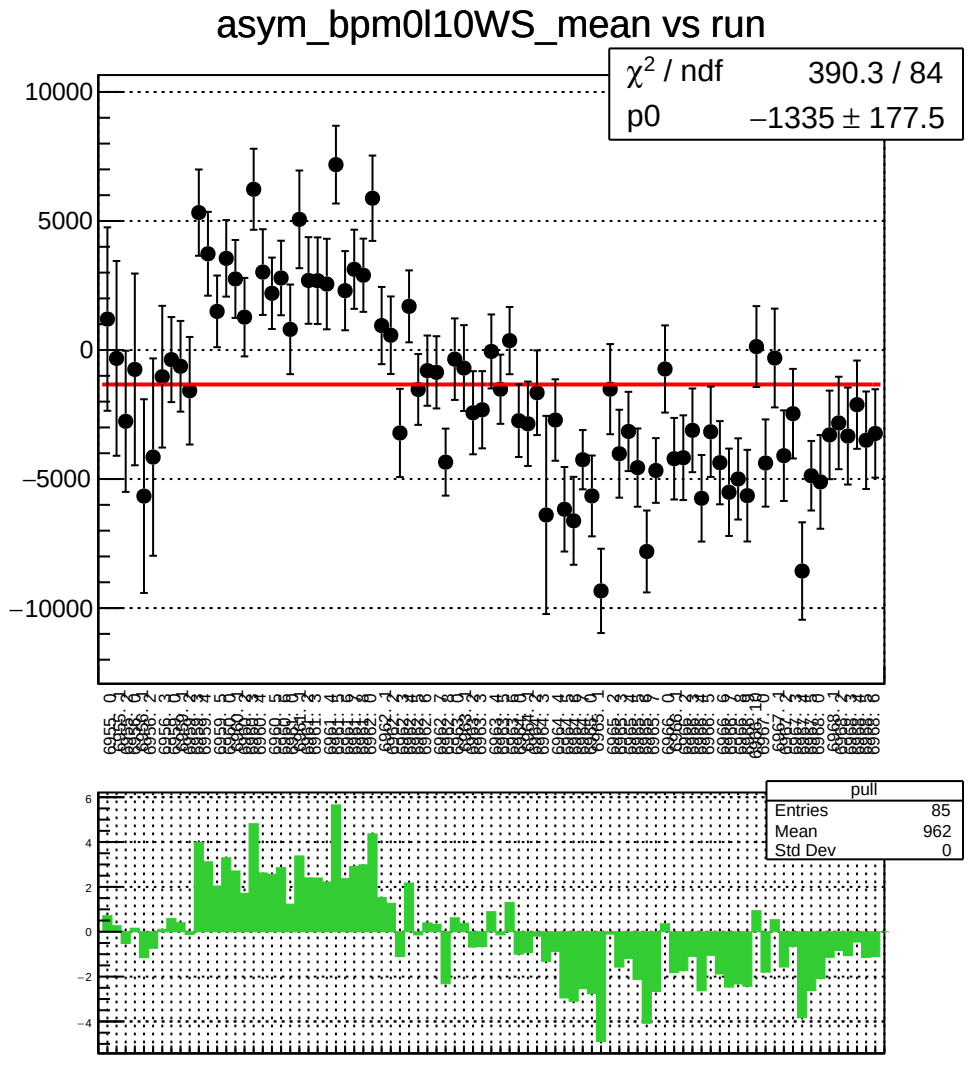

pull1D
Entries 85
Mean −0.04306
Std Dev 2.05

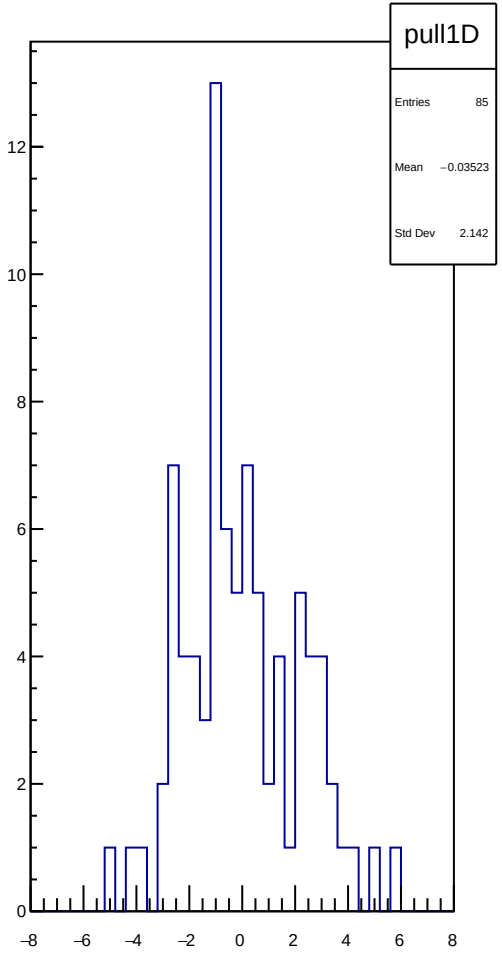

asym_bpm0l08WS_rms vs run
χ² / ndf 6.744e+04 / 84
p0 156.1 ± 0.1244
350
300
250
200
150

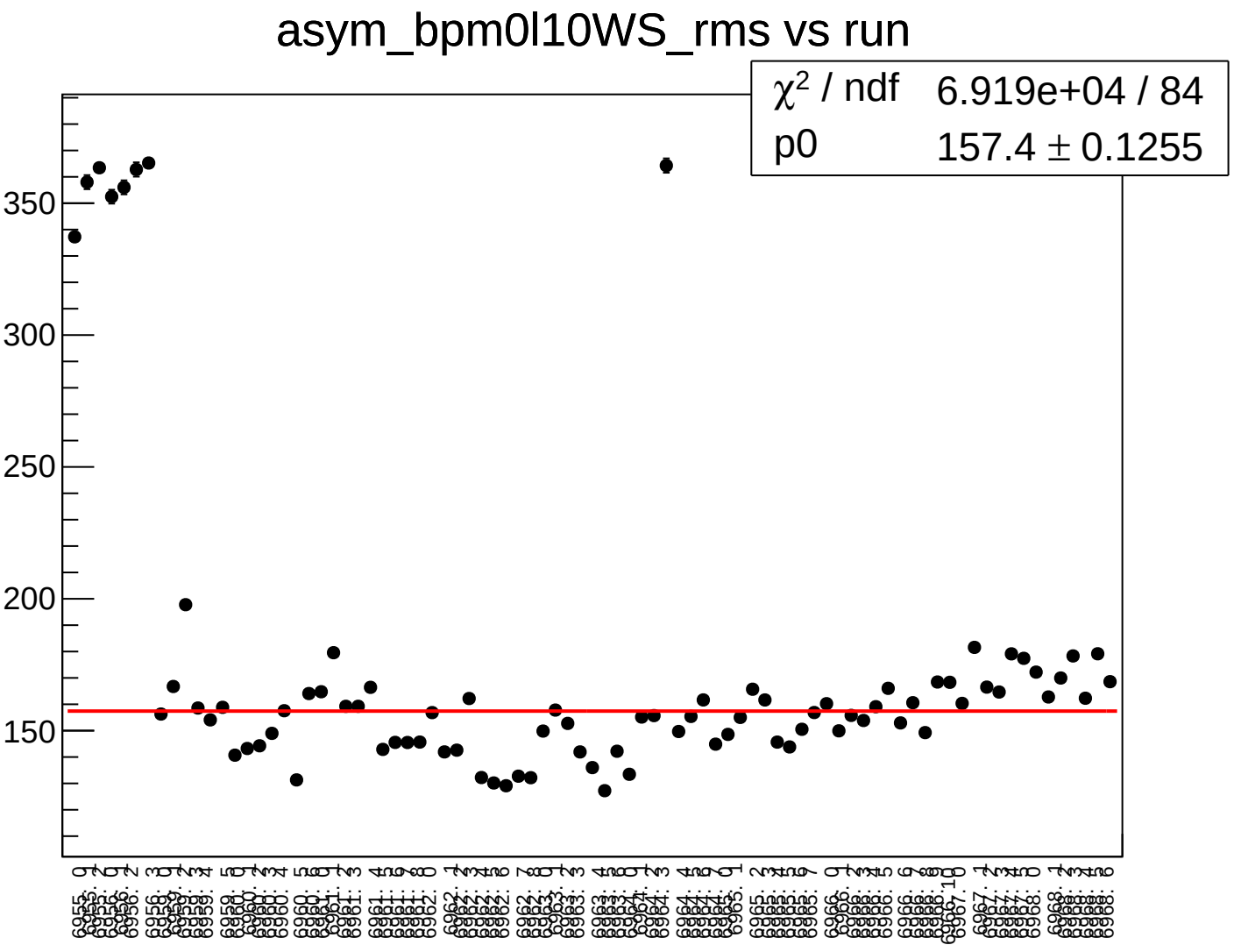

asym_bpm0l09WS_mean vs run
χ² / ndf 365.3 / 84
p0 −1330 ± 176.2
pull
Entries 85
Mean 594.3
Std Dev 0

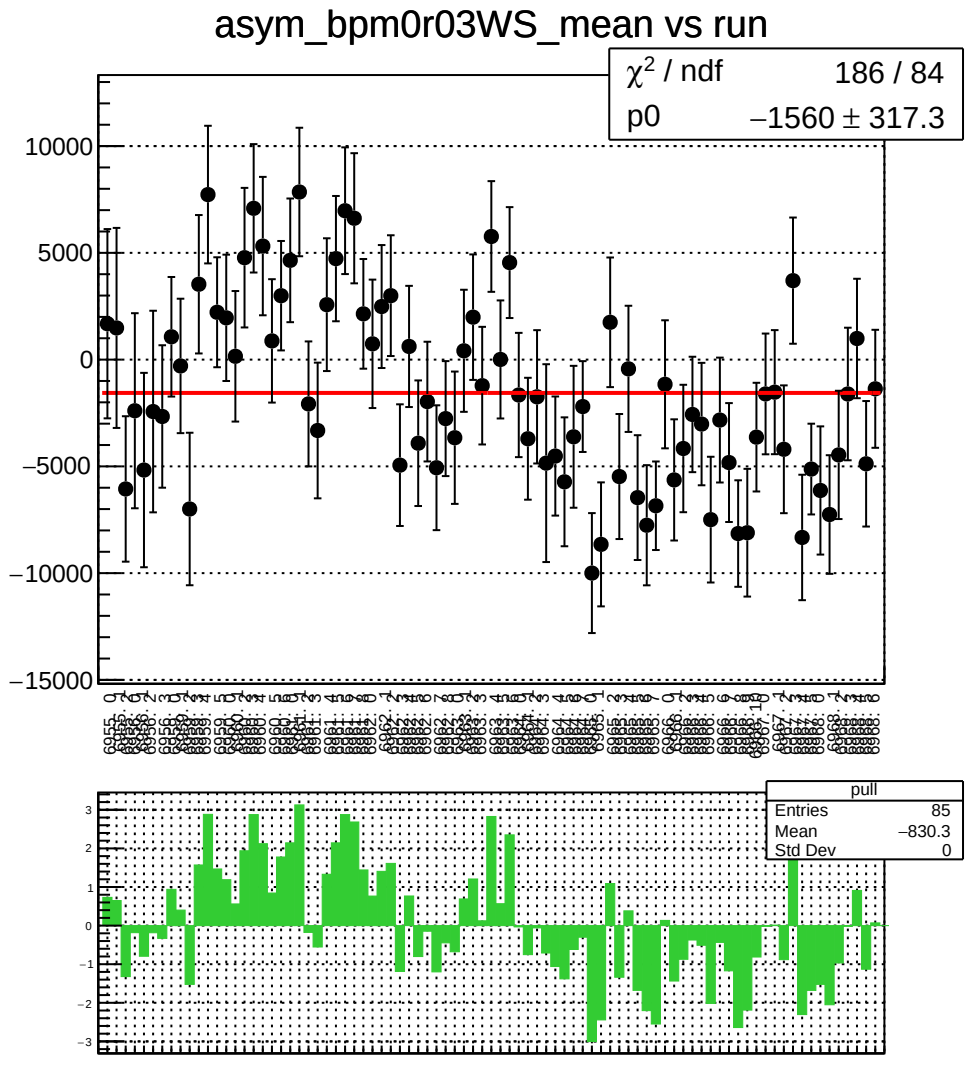

pull1D
Entries 85
Mean −0.05888
Std Dev 2.072

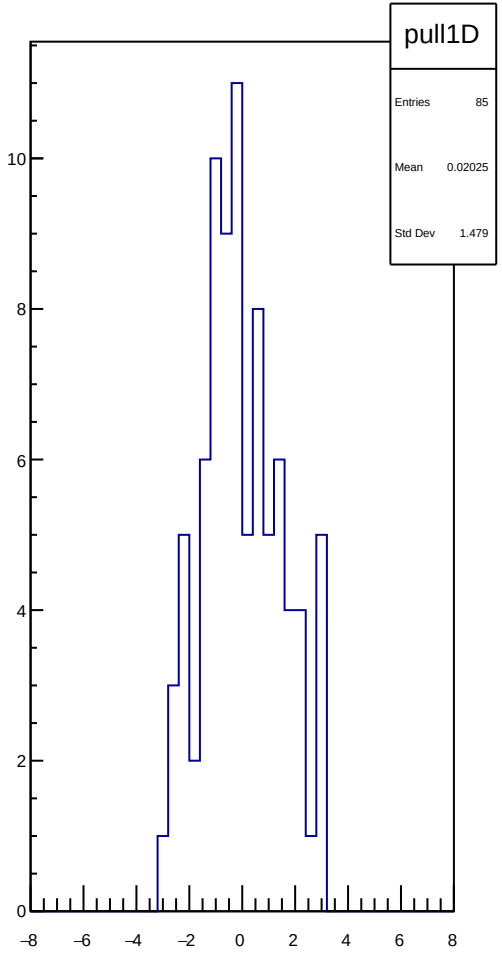

asym_bpm0l09WS_rms vs run
χ² / ndf 7.049e+04 / 84
p0 156.3 ± 0.1246
350
300
250
200
150

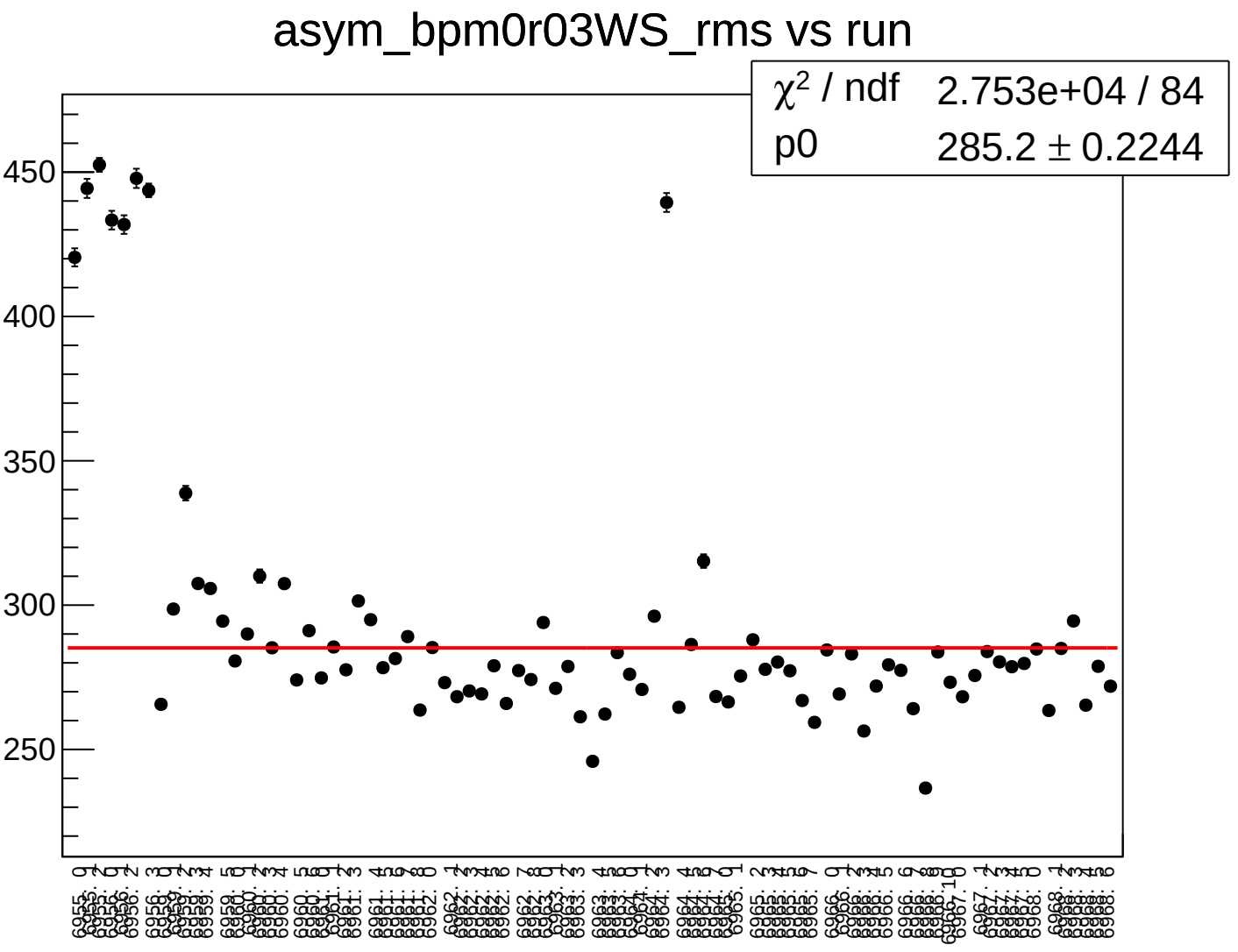

asym_bpm0l10WS_mean vs run
χ² / ndf 390.3 / 84
p0 −1335 ± 177.5
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 962
Std Dev 0
6
4
2
0
−2
−4

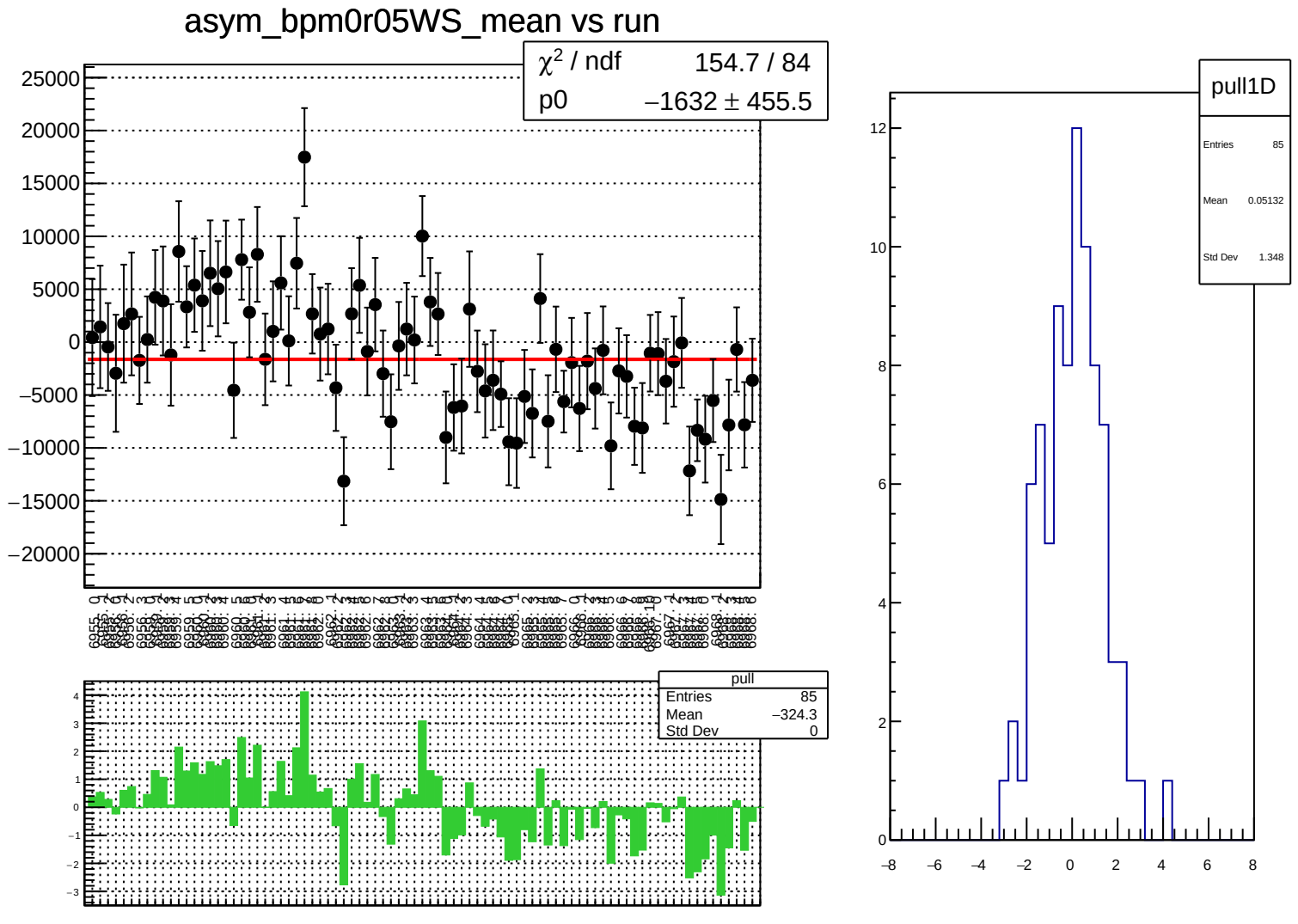

pull1D
Entries 85
Mean −0.03523
Std Dev 2.142
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

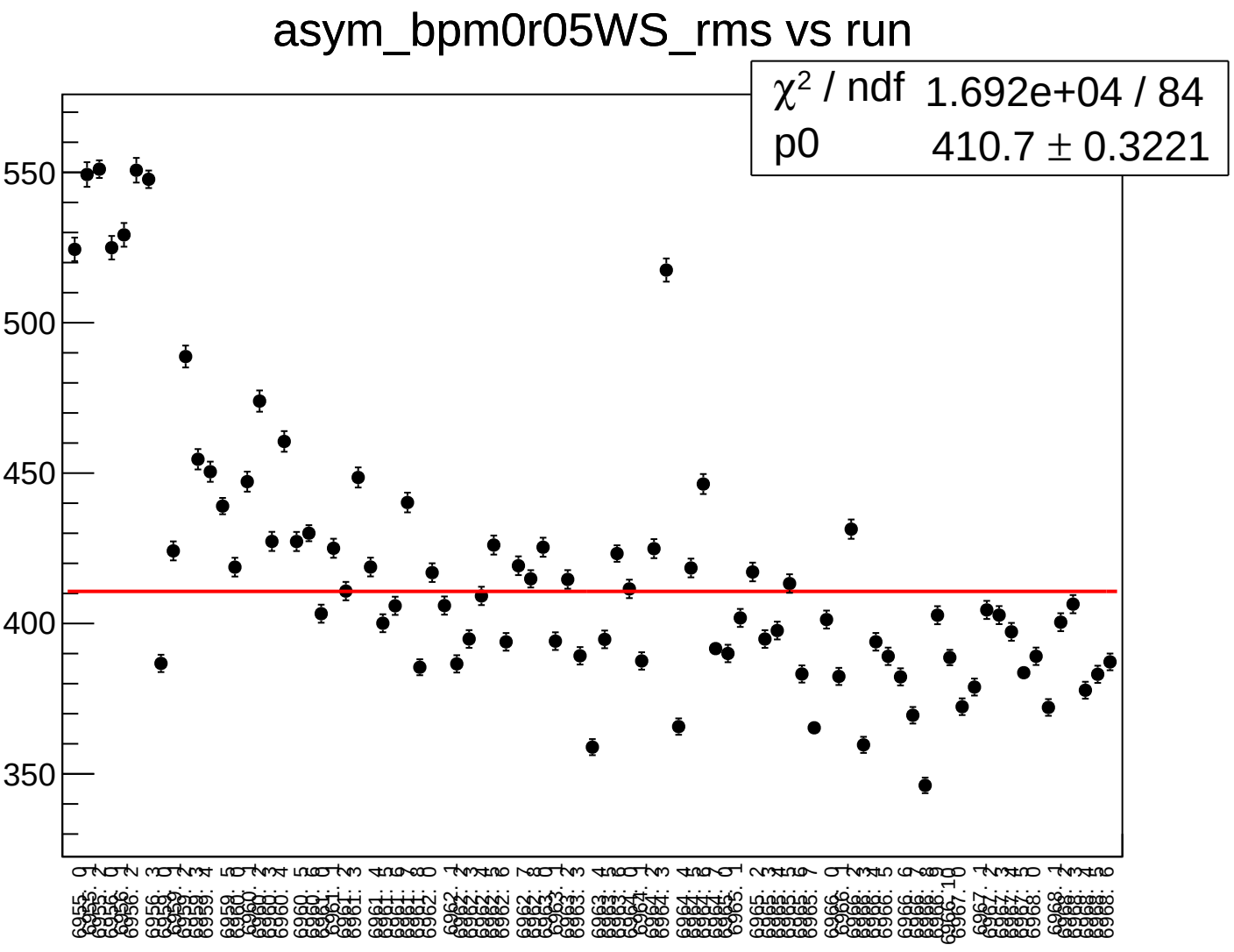

asym_bpm0l10WS_rms vs run
χ² / ndf 6.919e+04 / 84
p0 157.4 ± 0.1255
350
300
250
200
150

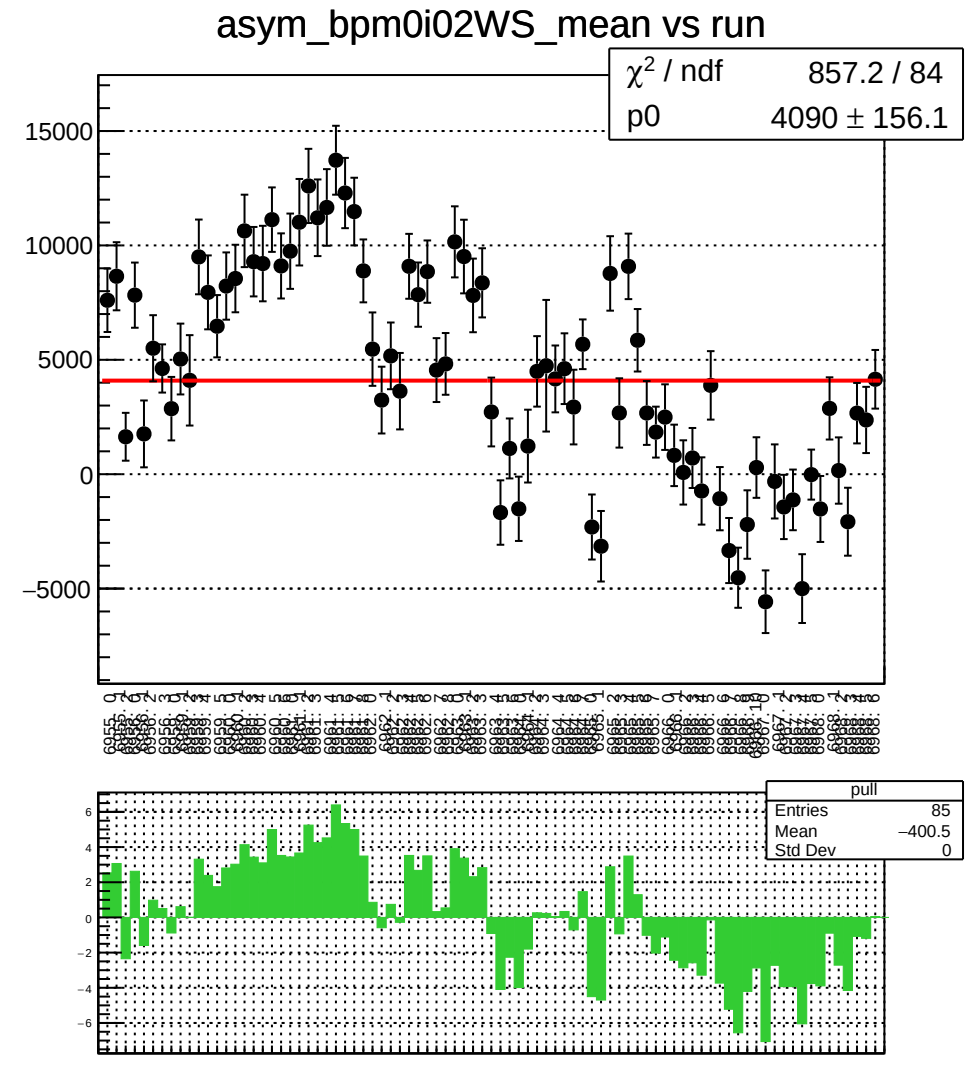

asym_bpm0r03WS_mean vs run
χ² / ndf 186 / 84
p0 −1560 ± 317.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −830.3
Std Dev 0
3
2
1
0
−1
−2
−3

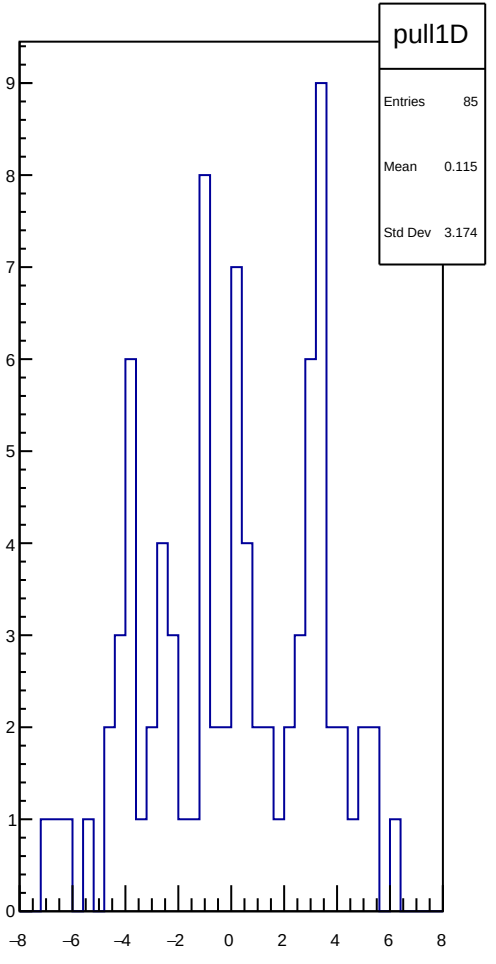

pull1D
Entries 85
Mean 0.02025
Std Dev 1.479
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

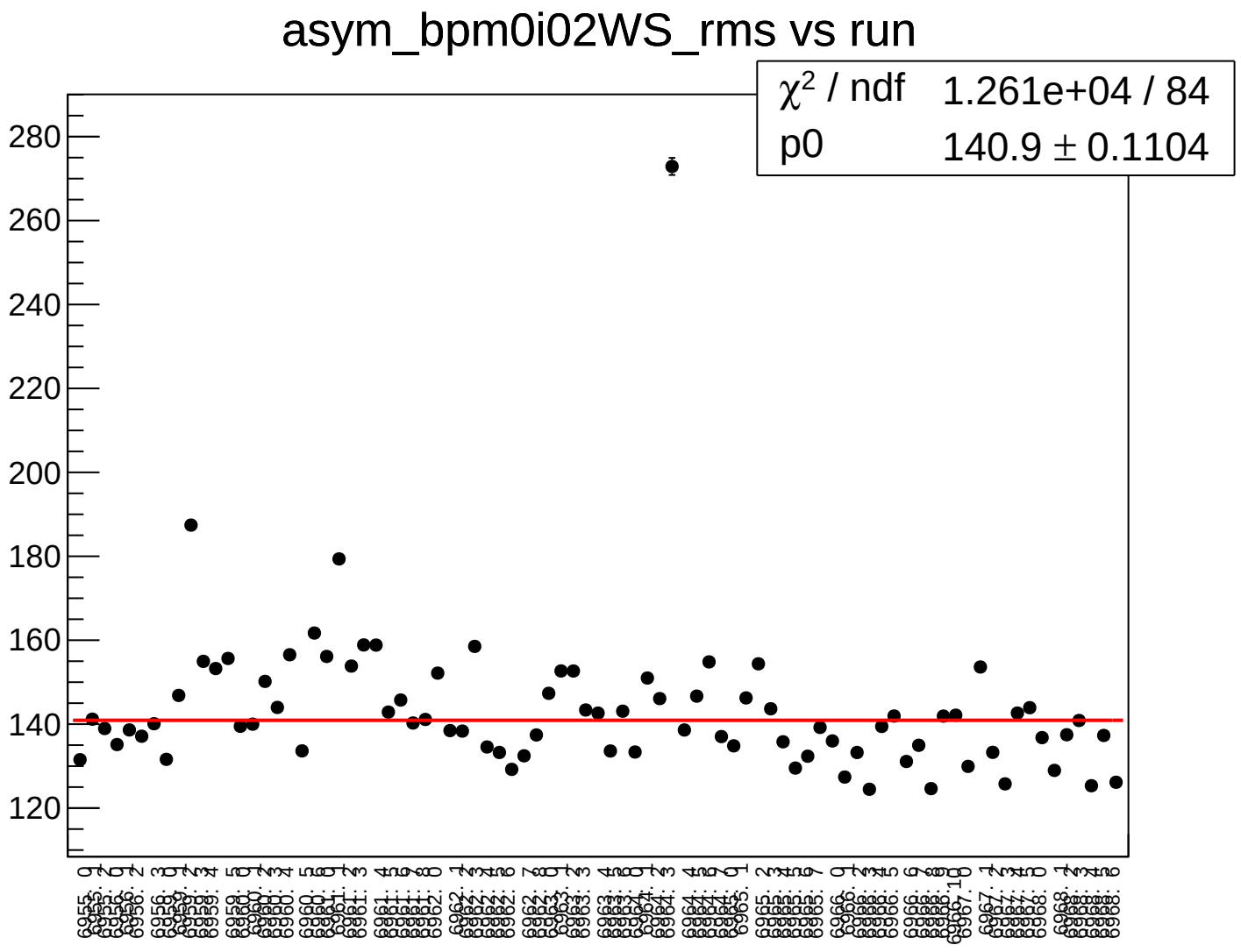

asym_bpm0r03WS_rms vs run
$\chi^2$ / ndf 2.753e+04 / 84
p0 285.2 ± 0.2244
450
400
350
300
250

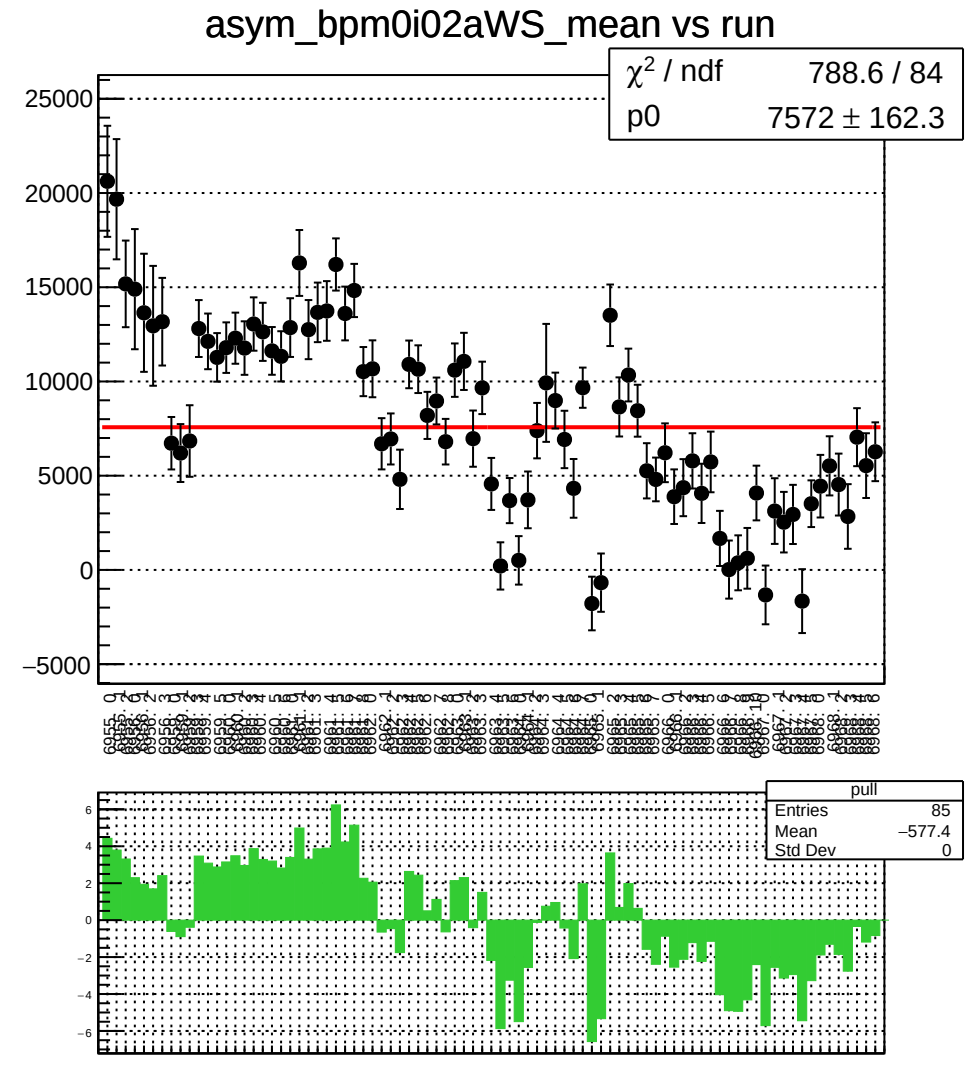

asym_bpm0r05WS_mean vs run
χ² / ndf 154.7 / 84
p0 −1632 ± 455.5
pull
Entries 85
Mean −324.3
Std Dev 0
pull1D
Entries 85
Mean 0.05132
Std Dev 1.348

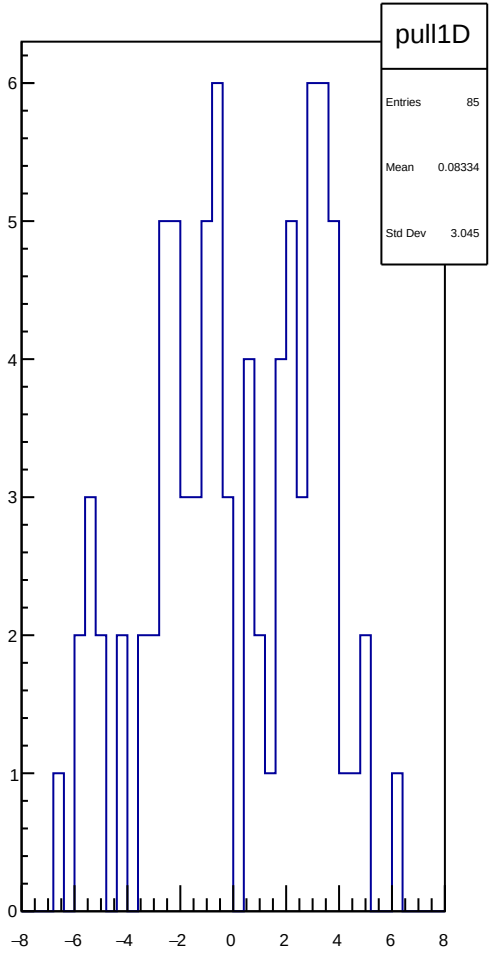

asym_bpm0r05WS_rms vs run
χ² / ndf 1.692e+04 / 84
p0 410.7 ± 0.3221
550
500
450
400
350

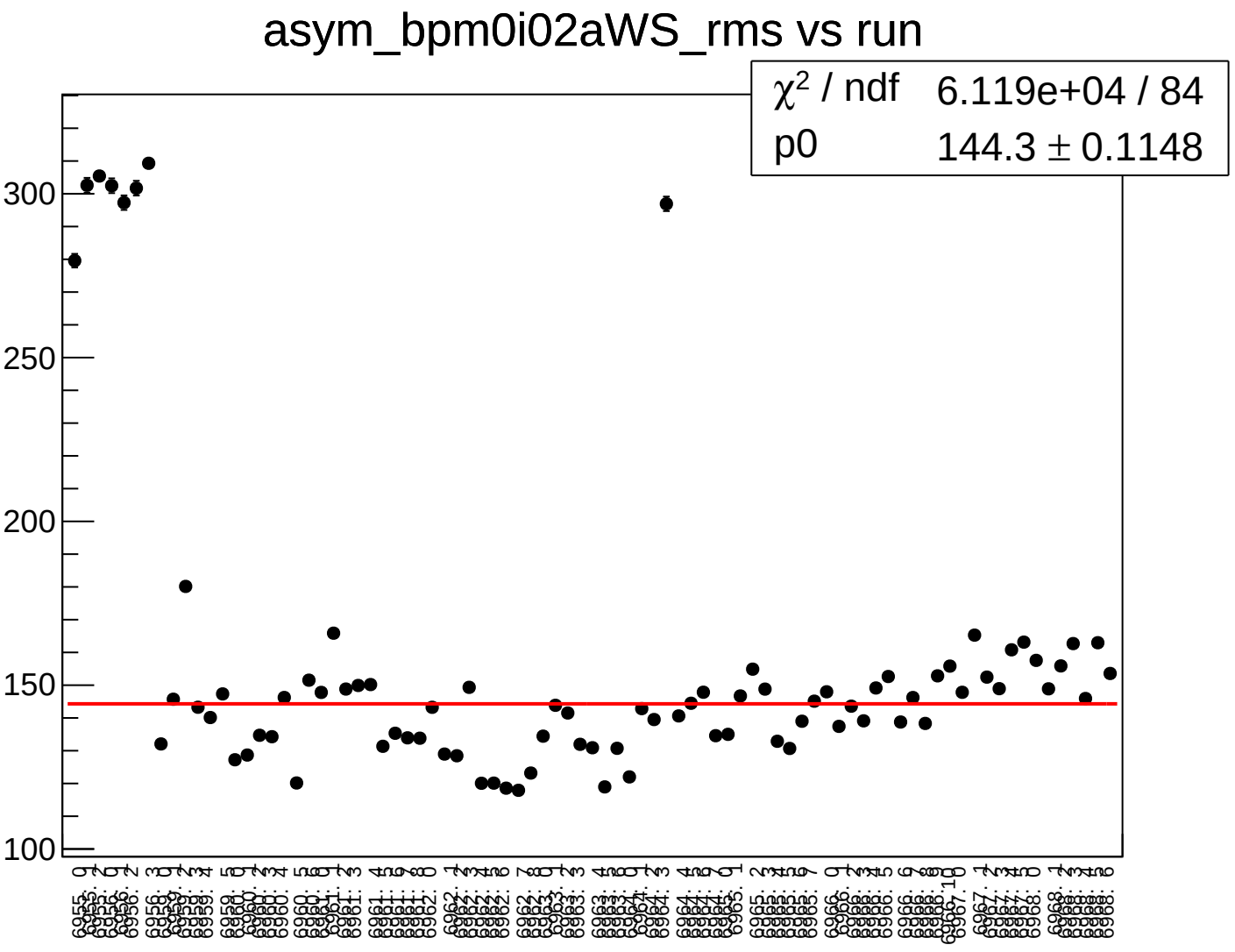

asym_bpm0i02WS_mean vs run
χ² / ndf 857.2 / 84
p0 4090 ± 156.1
15000
10000
5000
0
−5000
pull
Entries 85
Mean −400.5
Std Dev 0
6
4
2
0
−2
−4
−6

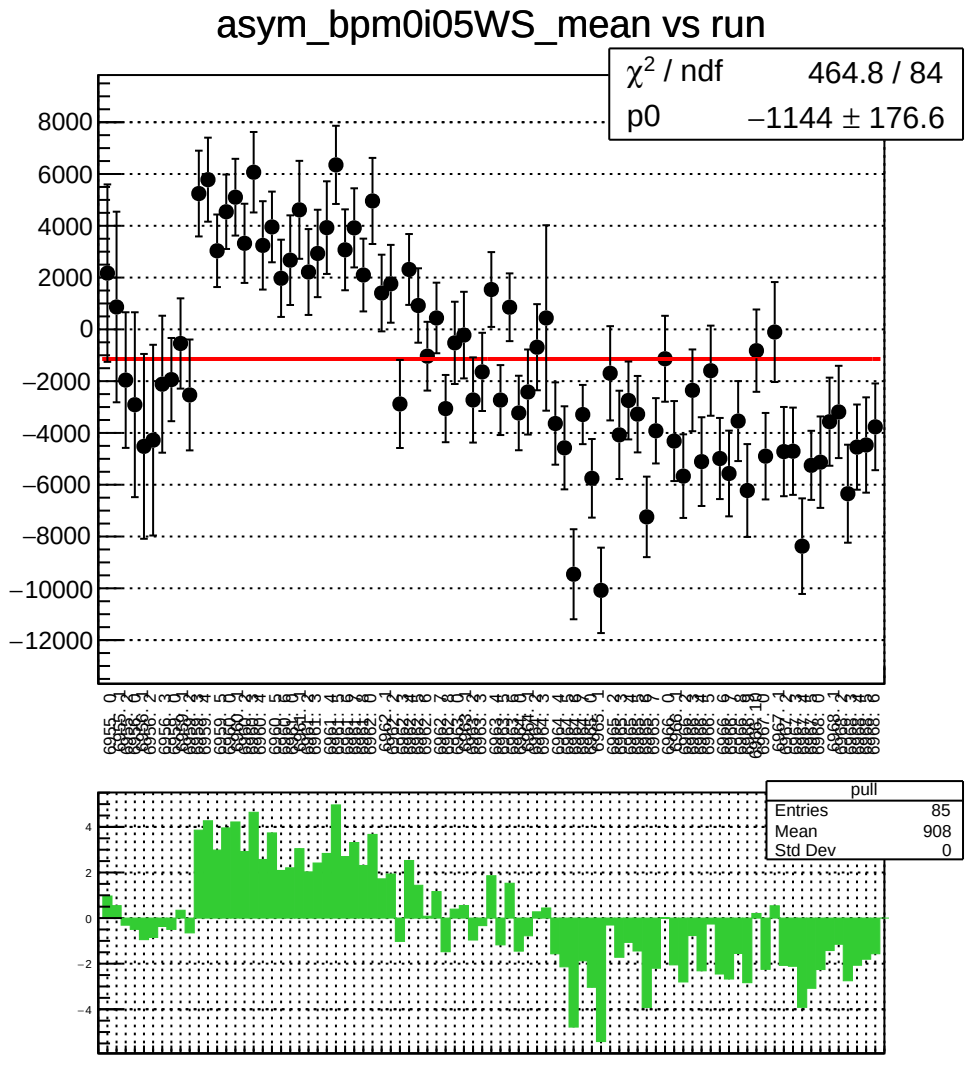

pull1D
Entries 85
Mean 0.115
Std Dev 3.174
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

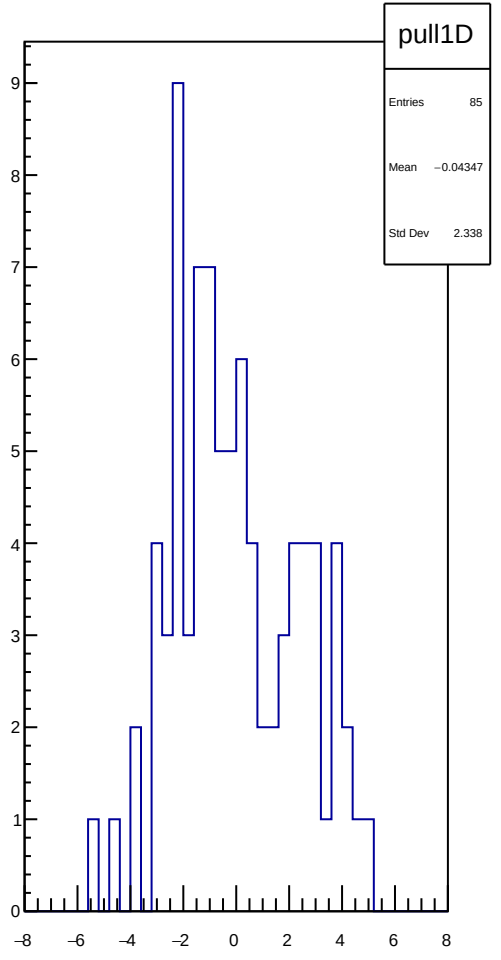

asym_bpm0i02WS_rms vs run
$\chi^2$ / ndf 1.261e+04 / 84
p0 140.9 ± 0.1104
280
260
240
220
200
180
160
140
120

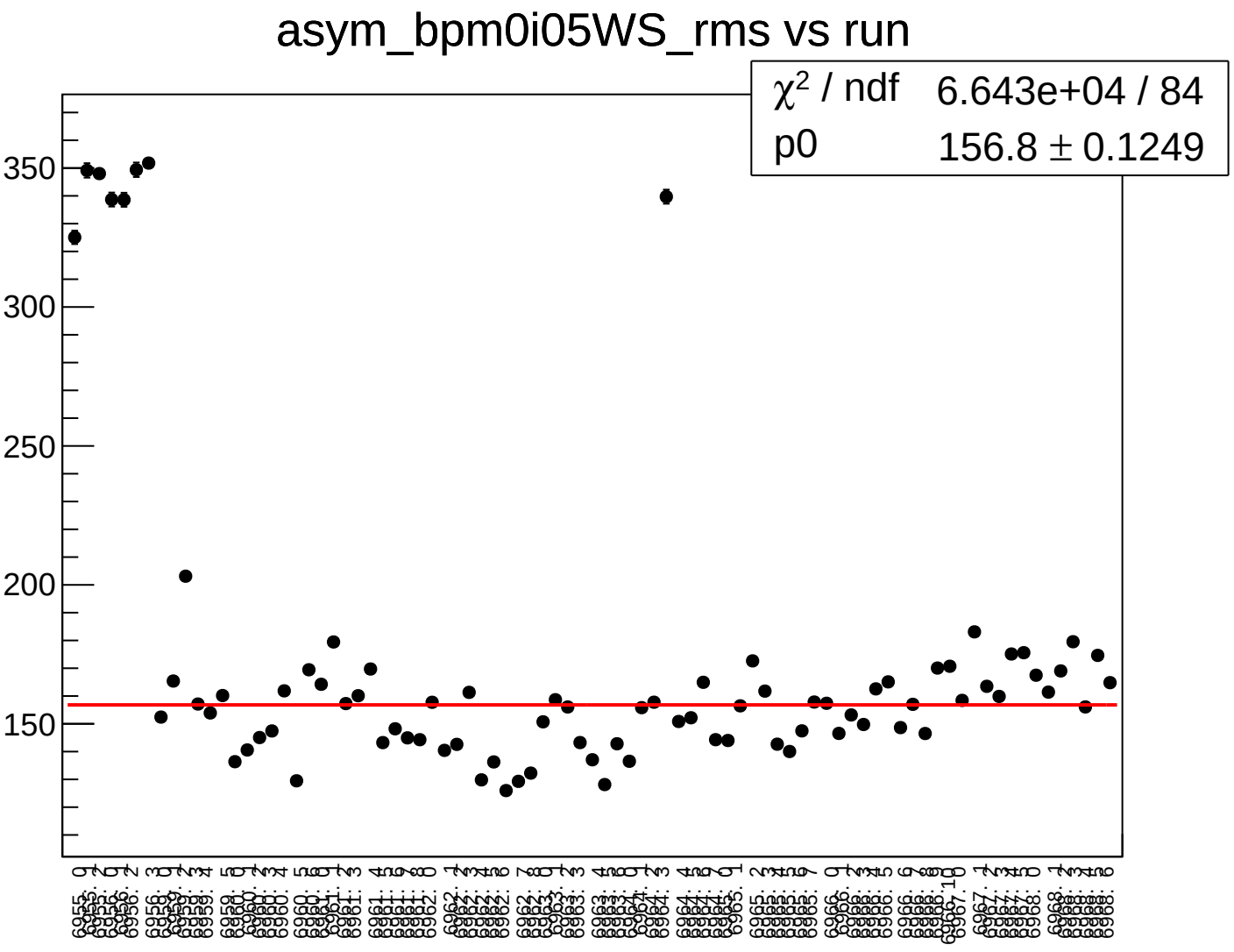

asym_bpm0i02aWS_mean vs run
χ² / ndf 788.6 / 84
p0 7572 ± 162.3
25000
20000
15000
10000
5000
0
−5000
pull
Entries 85
Mean −577.4
Std Dev 0
6
4
2
0
−2
−4
−6

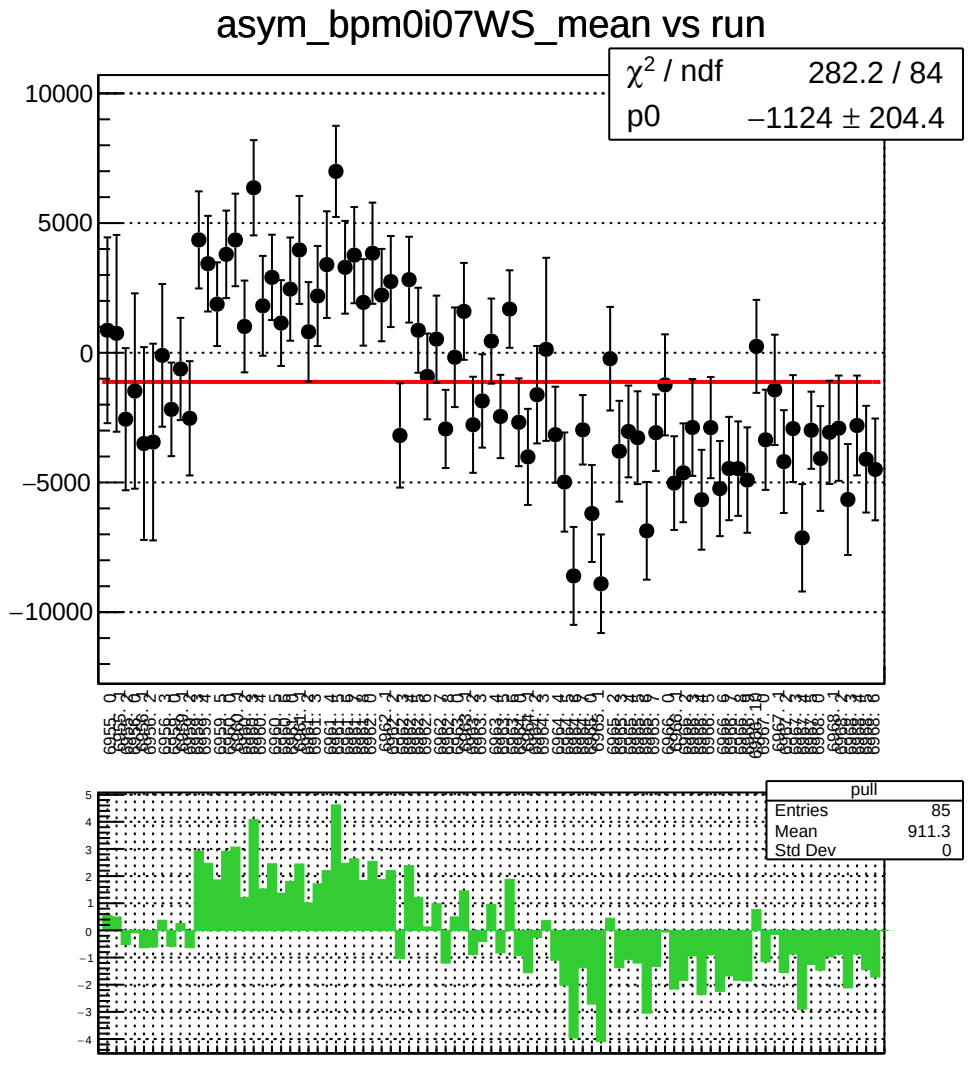

pull1D
Entries 85
Mean 0.08334
Std Dev 3.045
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

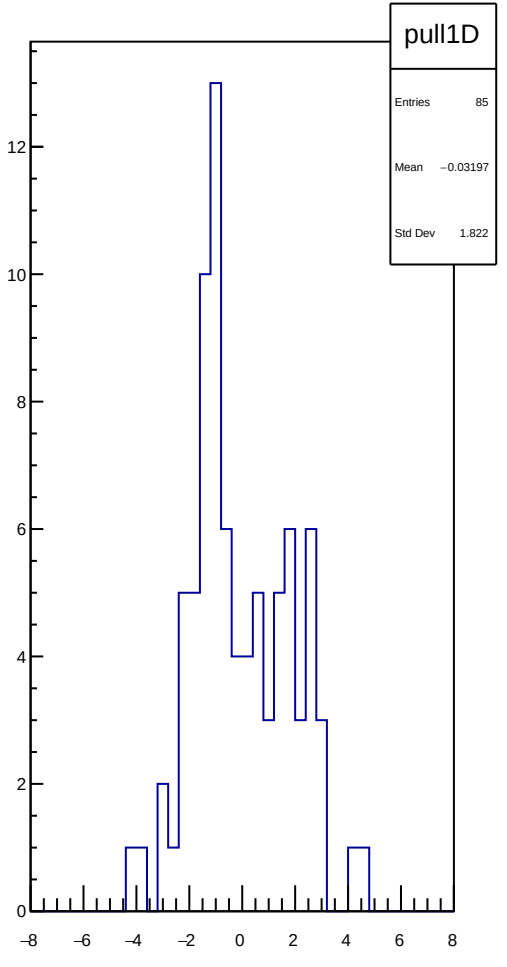

asym_bpm0i02aWS_rms vs run
χ² / ndf 6.119e+04 / 84
p0 144.3 ± 0.1148
300
250
200
150
100

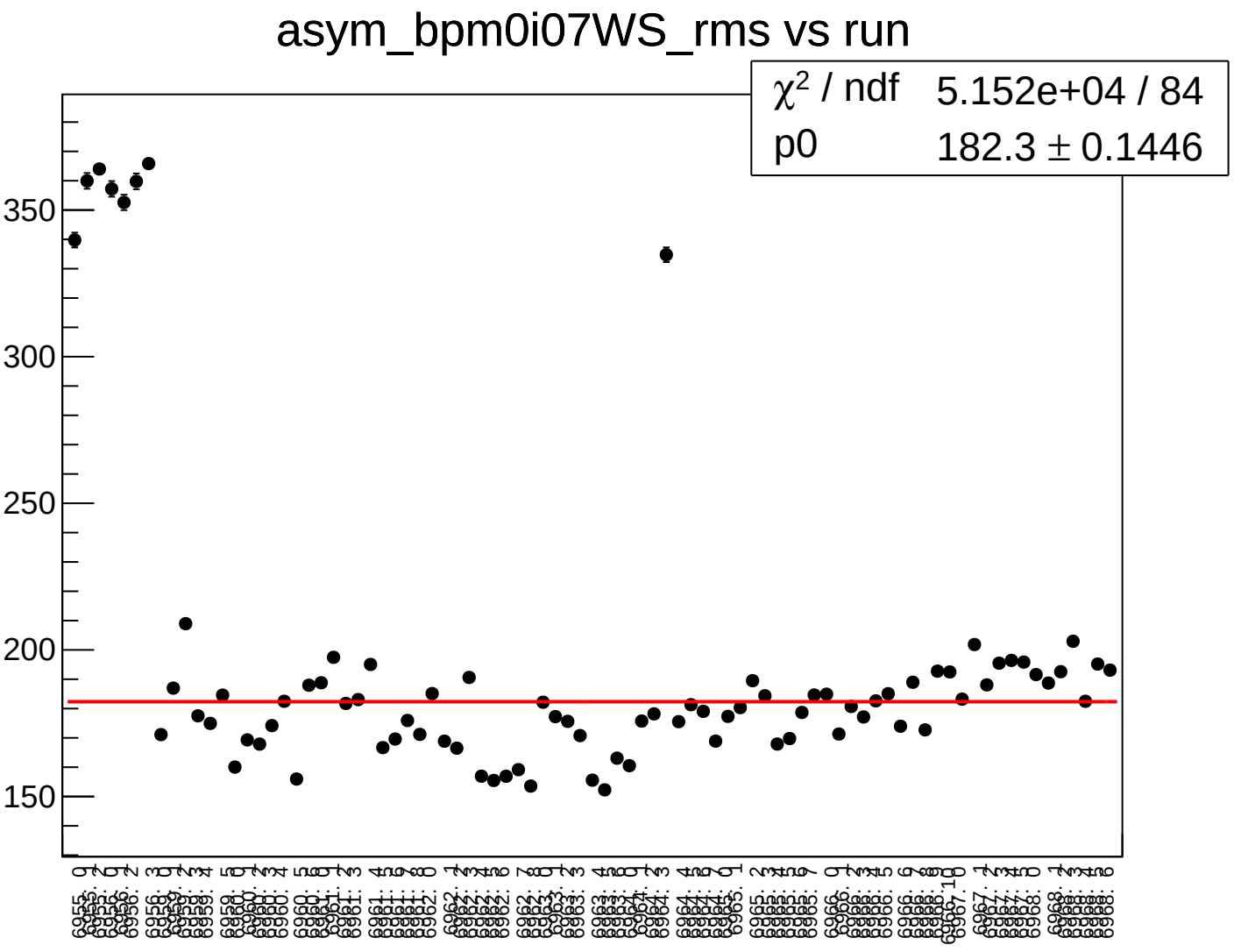

asym_bpm0i05WS_mean vs run
χ² / ndf 464.8 / 84
p0 −1144 ± 176.6
pull
Entries 85
Mean 908
Std Dev 0

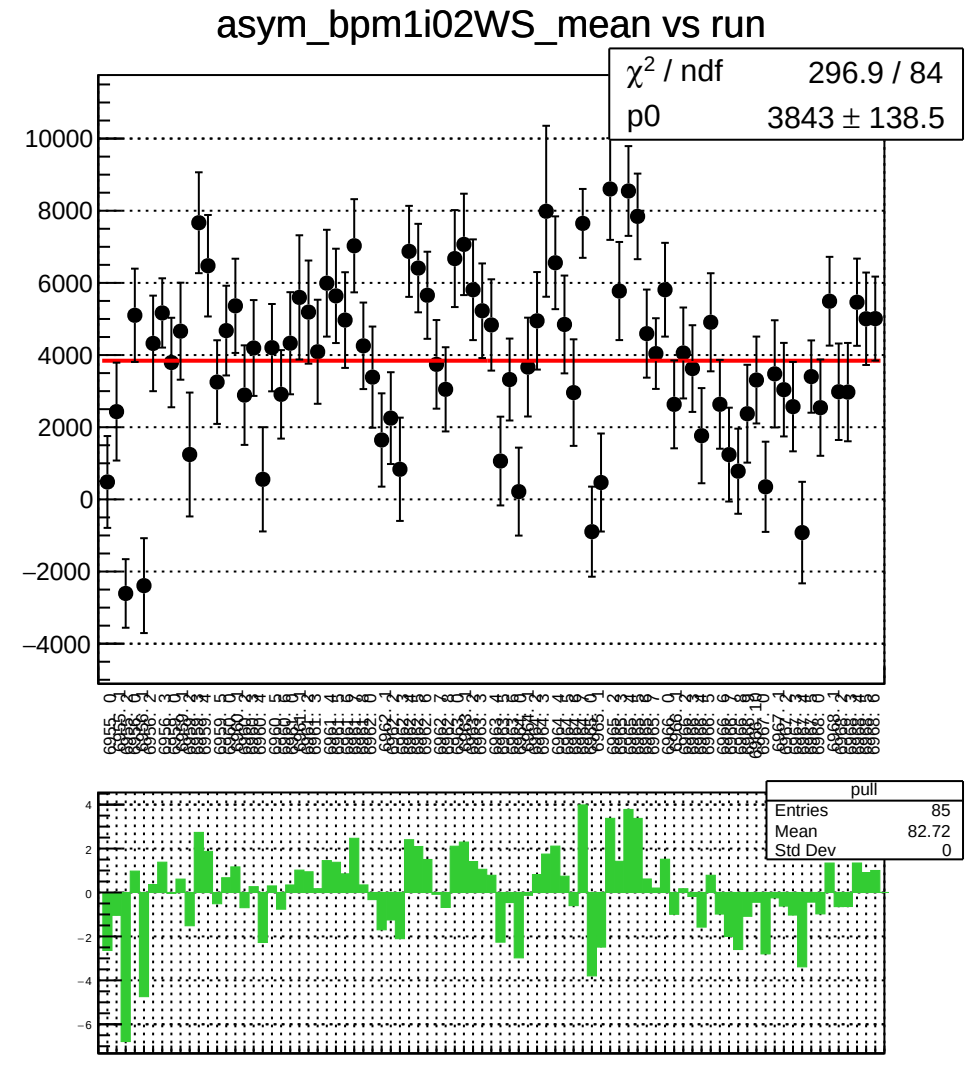

pull1D
Entries 85
Mean −0.04347
Std Dev 2.338

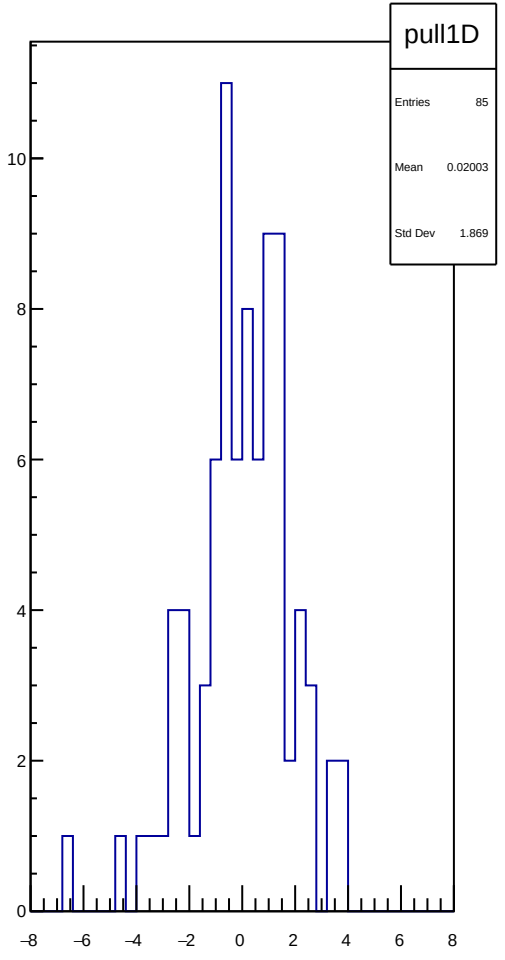

asym_bpm0i05WS_rms vs run
χ² / ndf 6.643e+04 / 84
p0 156.8 ± 0.1249
350
300
250
200
150

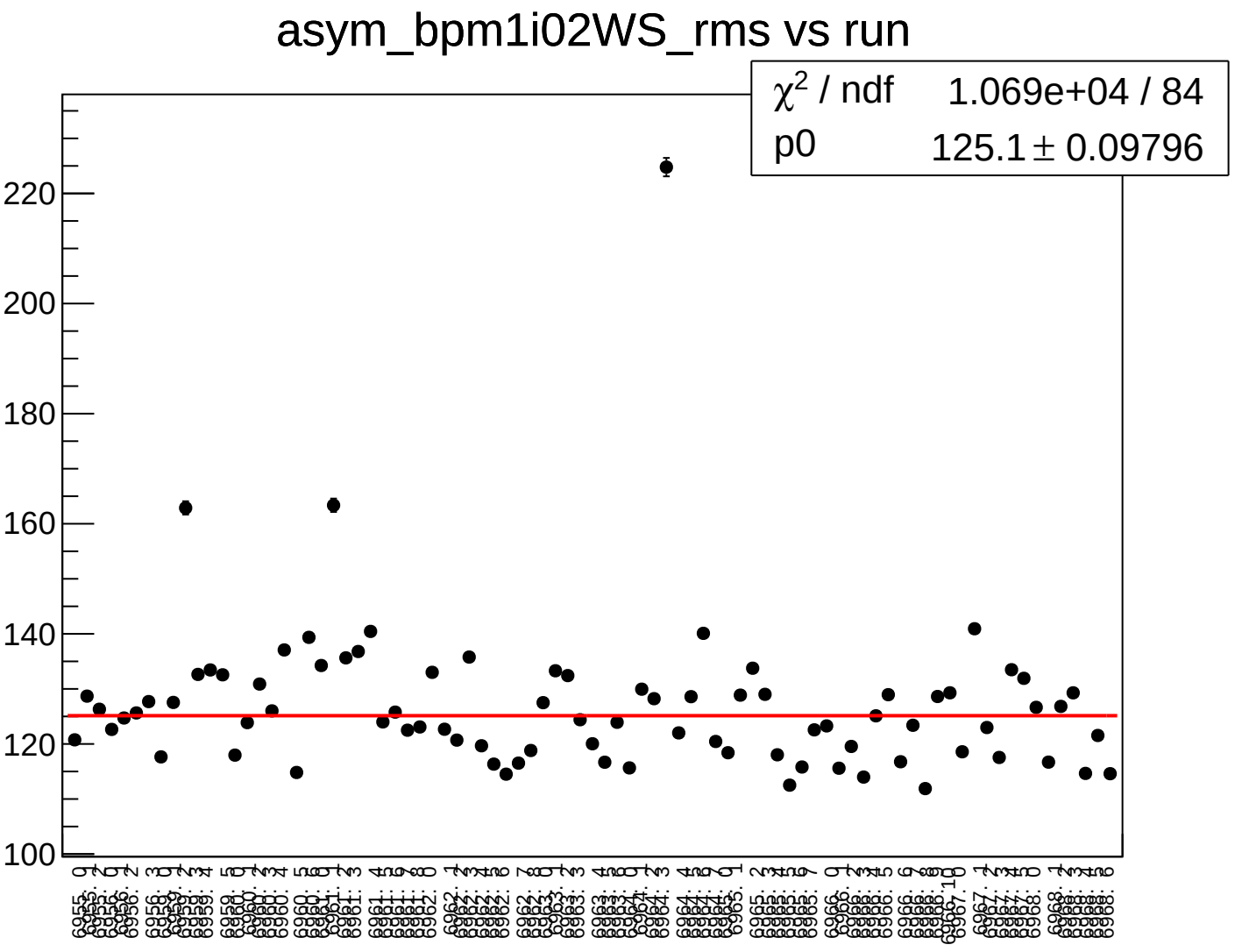

asym_bpm0i07WS_mean vs run
χ² / ndf 282.2 / 84
p0 −1124 ± 204.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 911.3
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

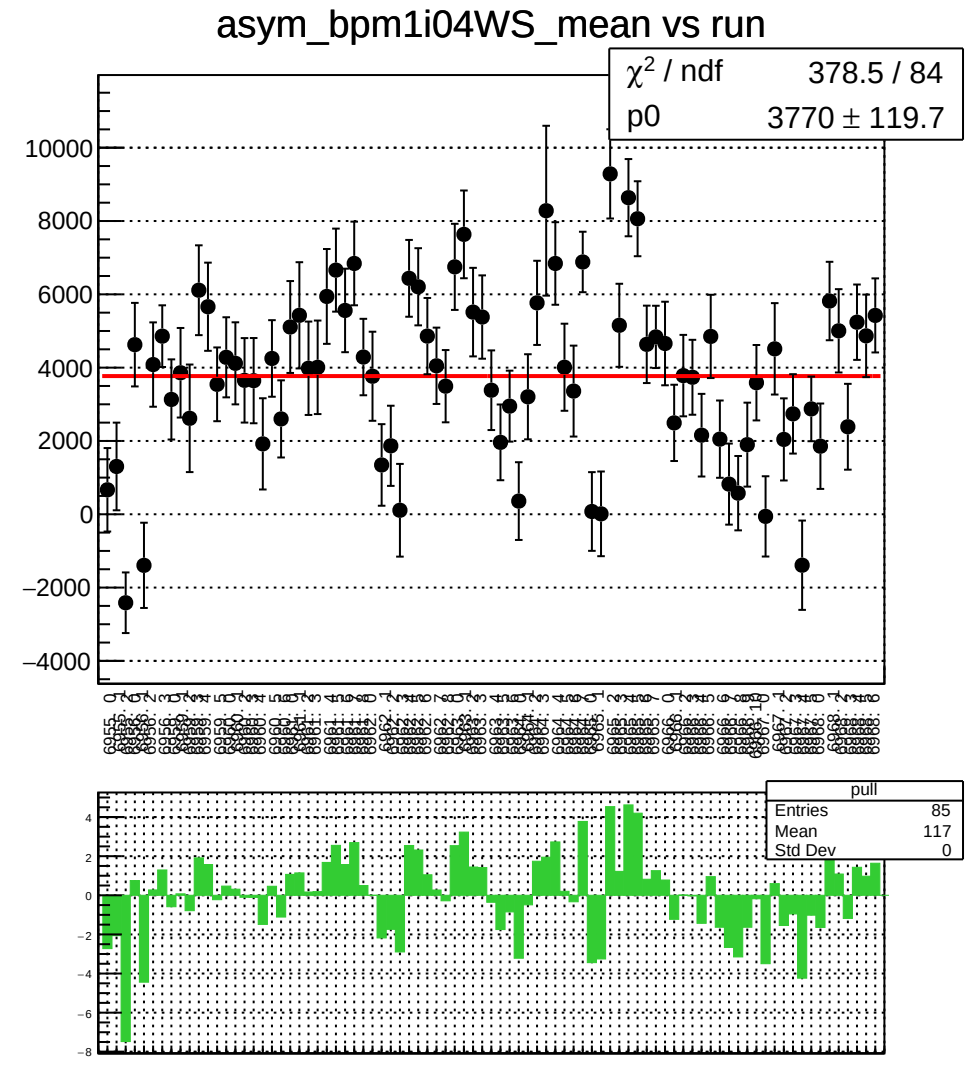

pull1D
Entries 85
Mean −0.03197
Std Dev 1.822
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

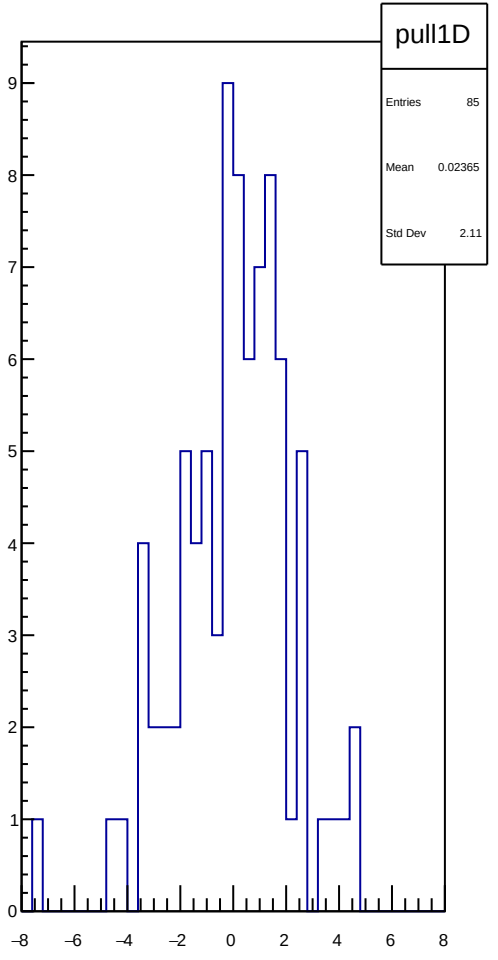

asym_bpm0i07WS_rms vs run
χ² / ndf 5.152e+04 / 84
p0 182.3 ± 0.1446
350
300
250
200
150

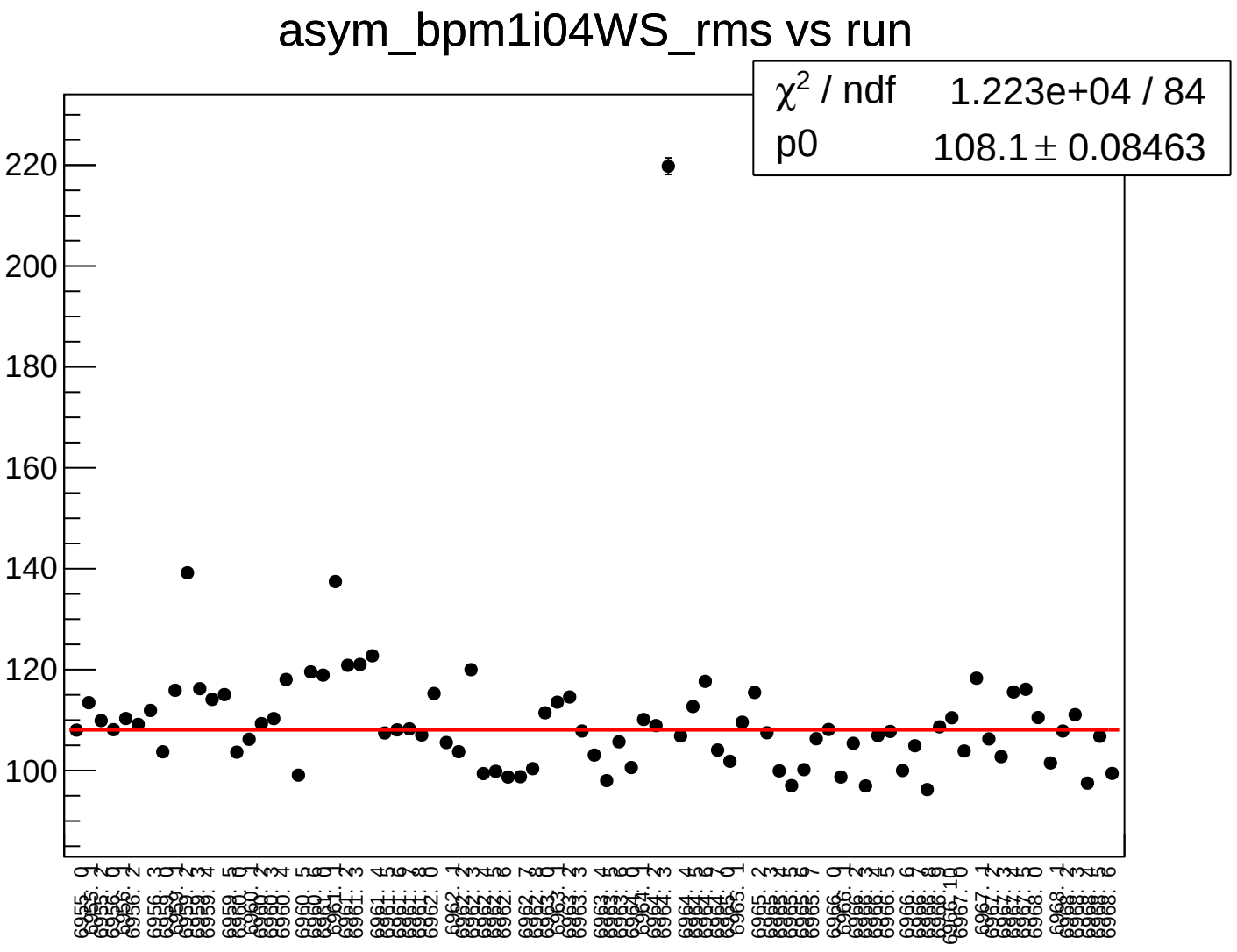

asym_bpm1i02WS_mean vs run
χ² / ndf 296.9 / 84
p0 3843 ± 138.5
pull
Entries 85
Mean 82.72
Std Dev 0

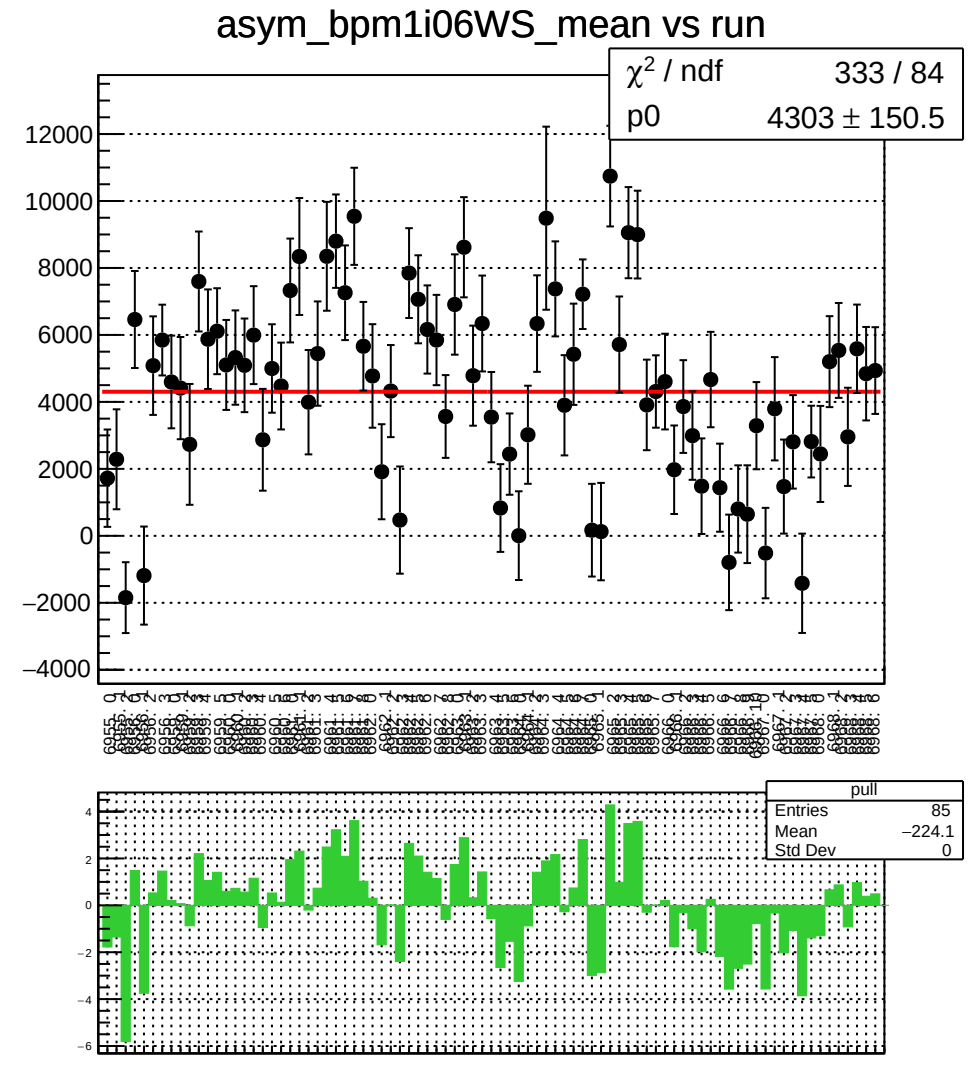

pull1D
Entries 85
Mean 0.02003
Std Dev 1.869

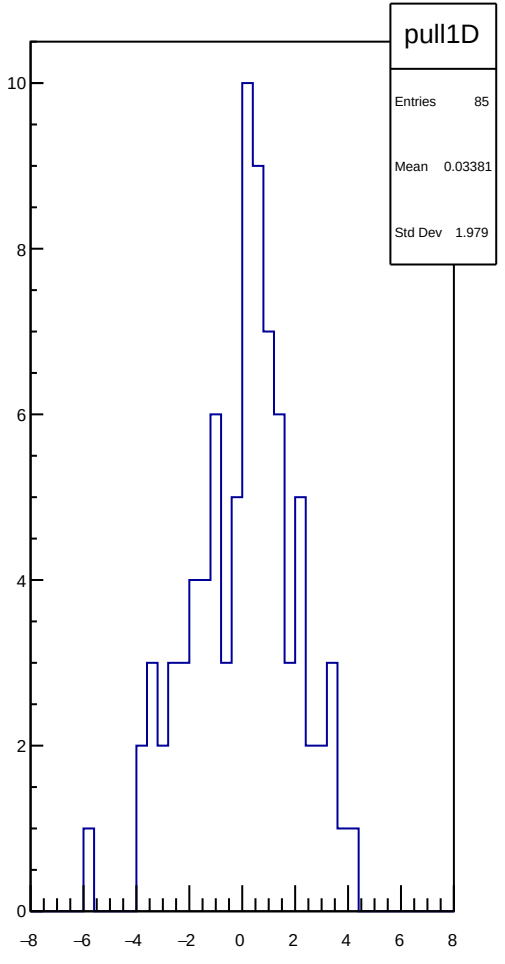

asym_bpm1i02WS_rms vs run
$\chi^2$ / ndf 1.069e+04 / 84
p0 125.1 ± 0.09796
220
200
180
160
140
120
100

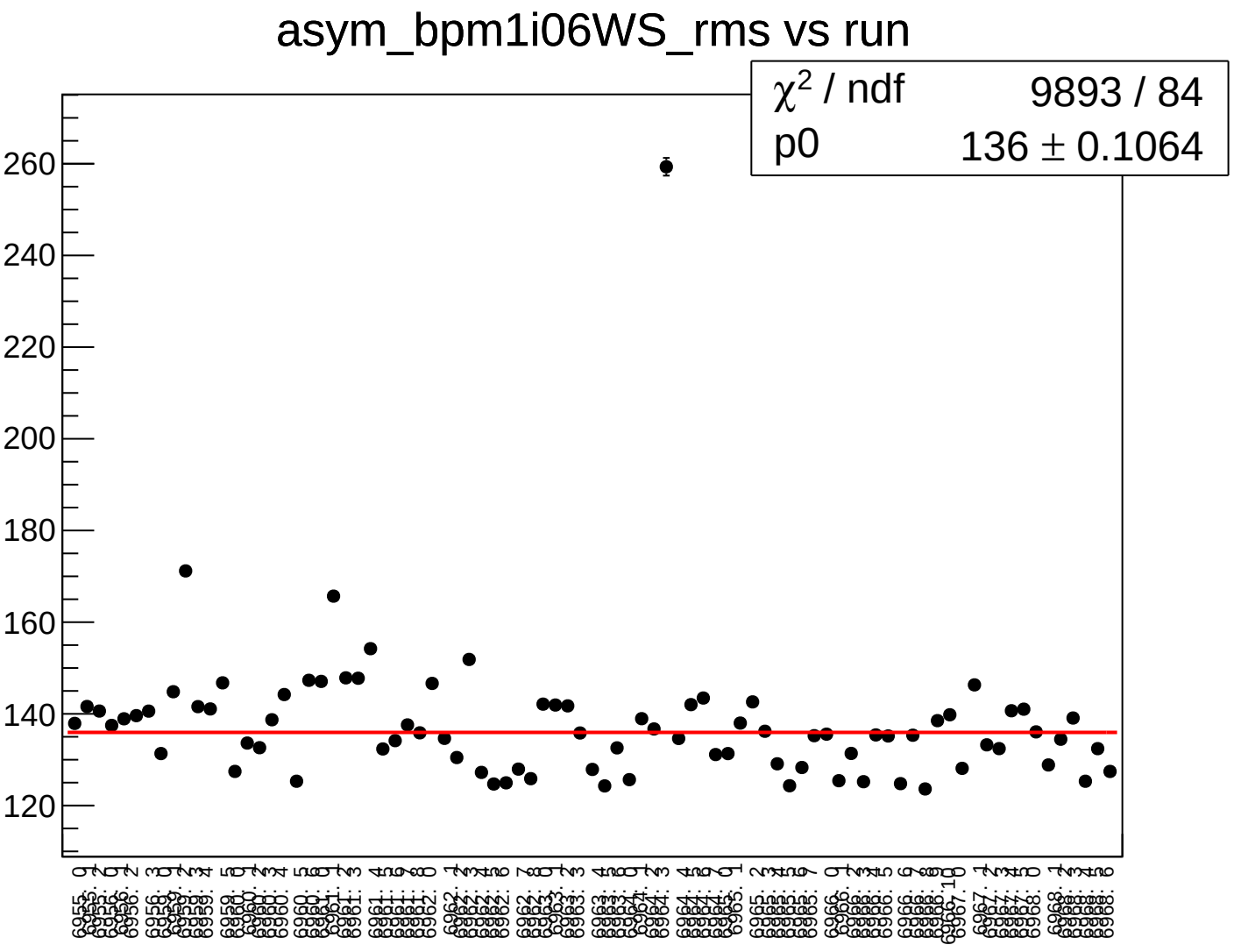

asym_bpm1i04WS_mean vs run
χ² / ndf 378.5 / 84
p0 3770 ± 119.7
pull
Entries 85
Mean 117
Std Dev 0

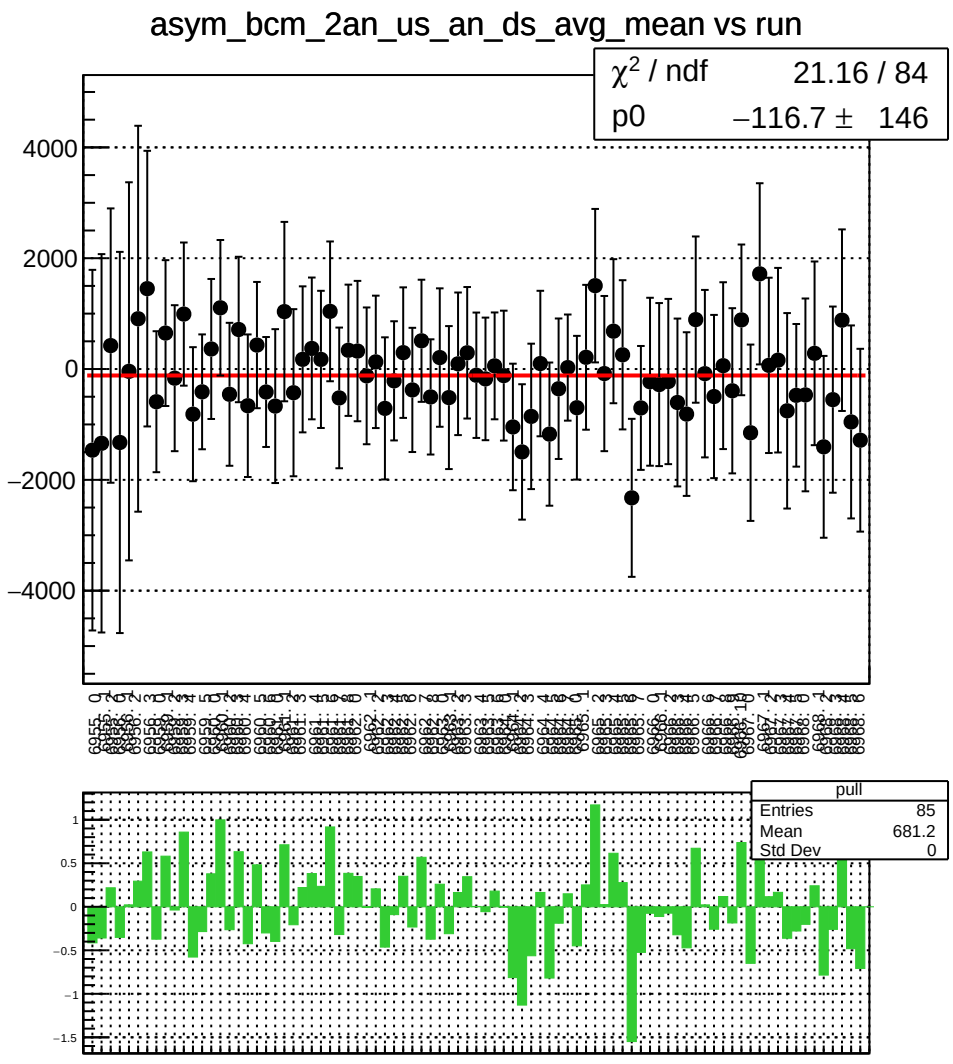

pull1D
Entries 85
Mean 0.02365
Std Dev 2.11

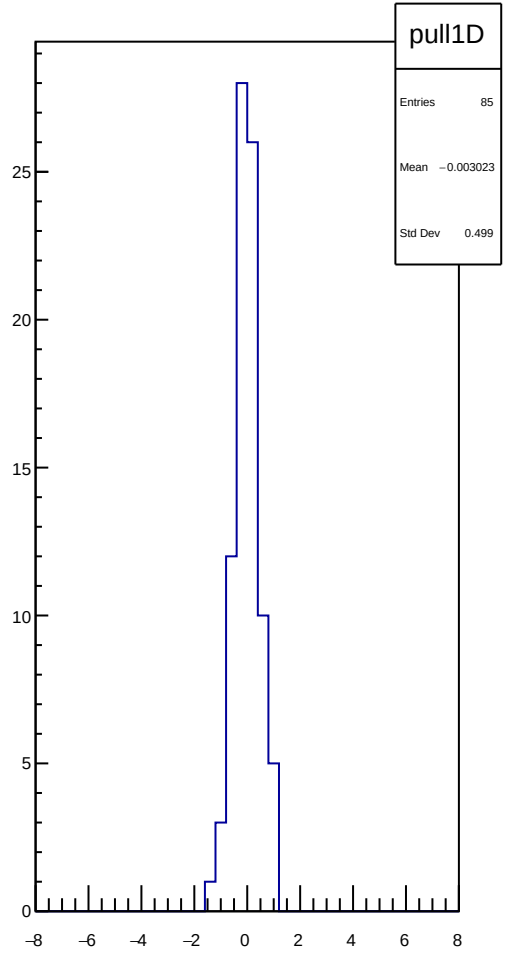

asym_bpm1i04WS_rms vs run
$\chi^2$ / ndf 1.223e+04 / 84
p0 108.1 ± 0.08463
220
200
180
160
140
120
100

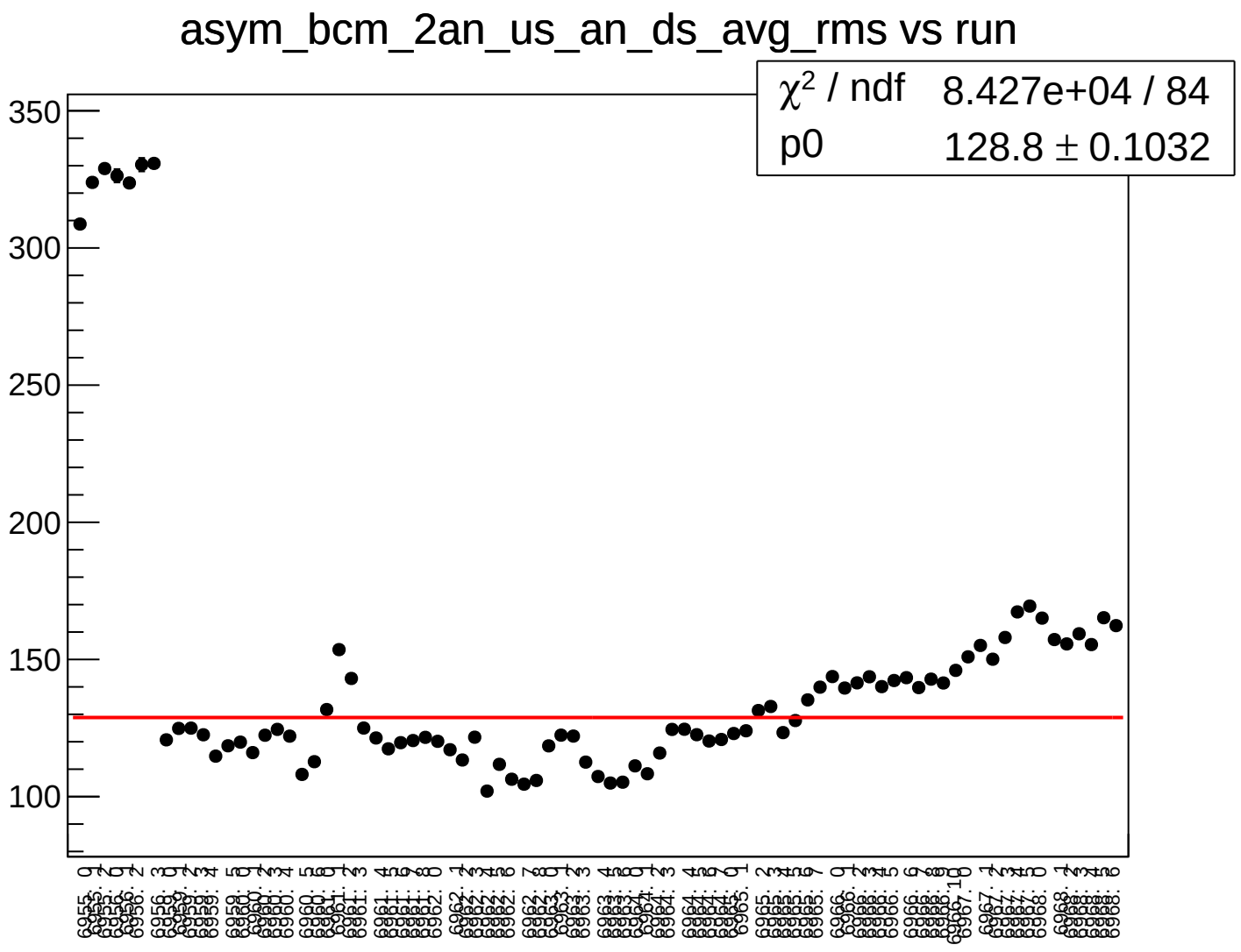

asym_bpm1i06WS_mean vs run
χ² / ndf 333 / 84
p0 4303 ± 150.5
12000
10000
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −224.1
Std Dev 0
4
2
0
−2
−4
−6

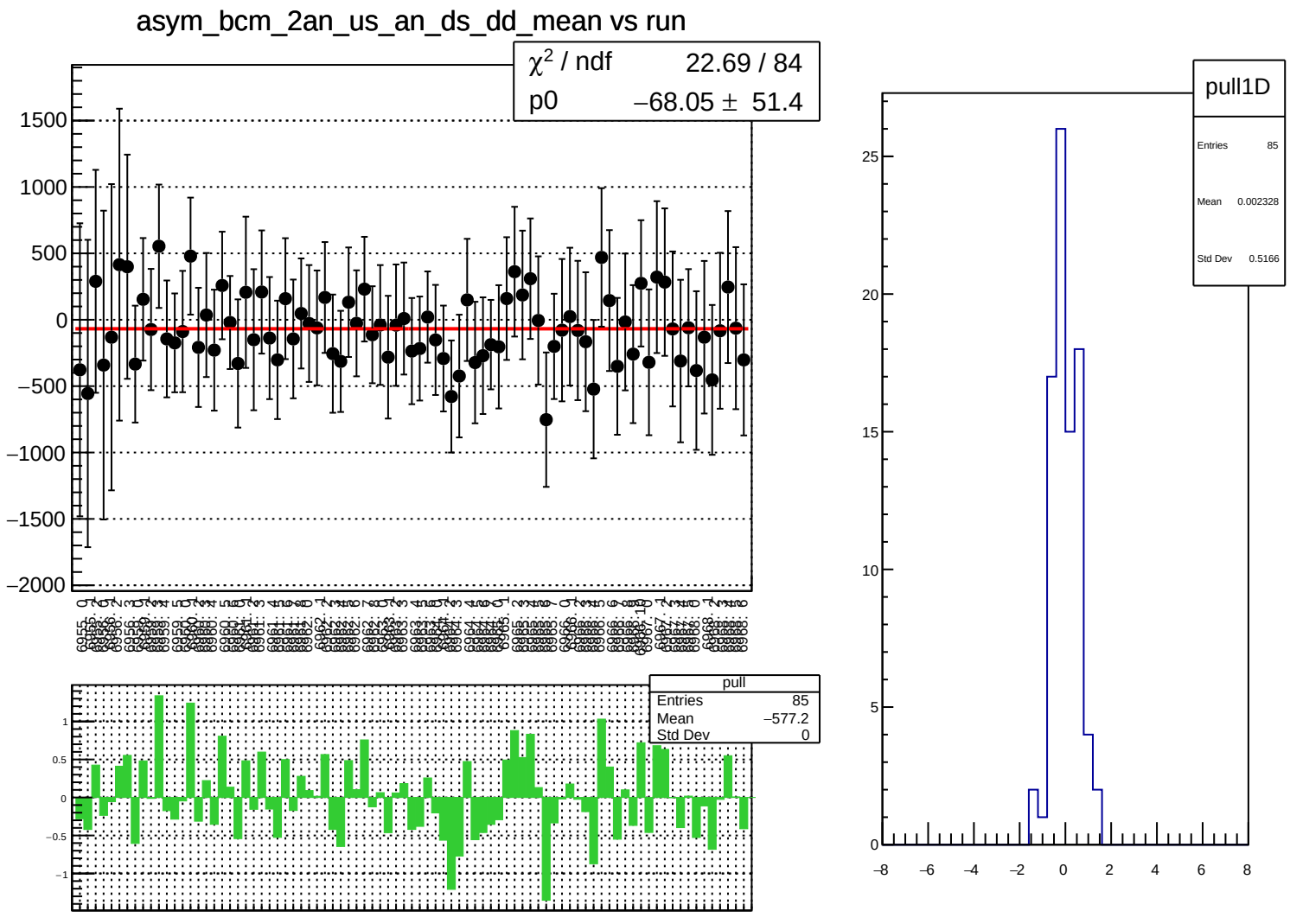

pull1D
Entries 85
Mean 0.03381
Std Dev 1.979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

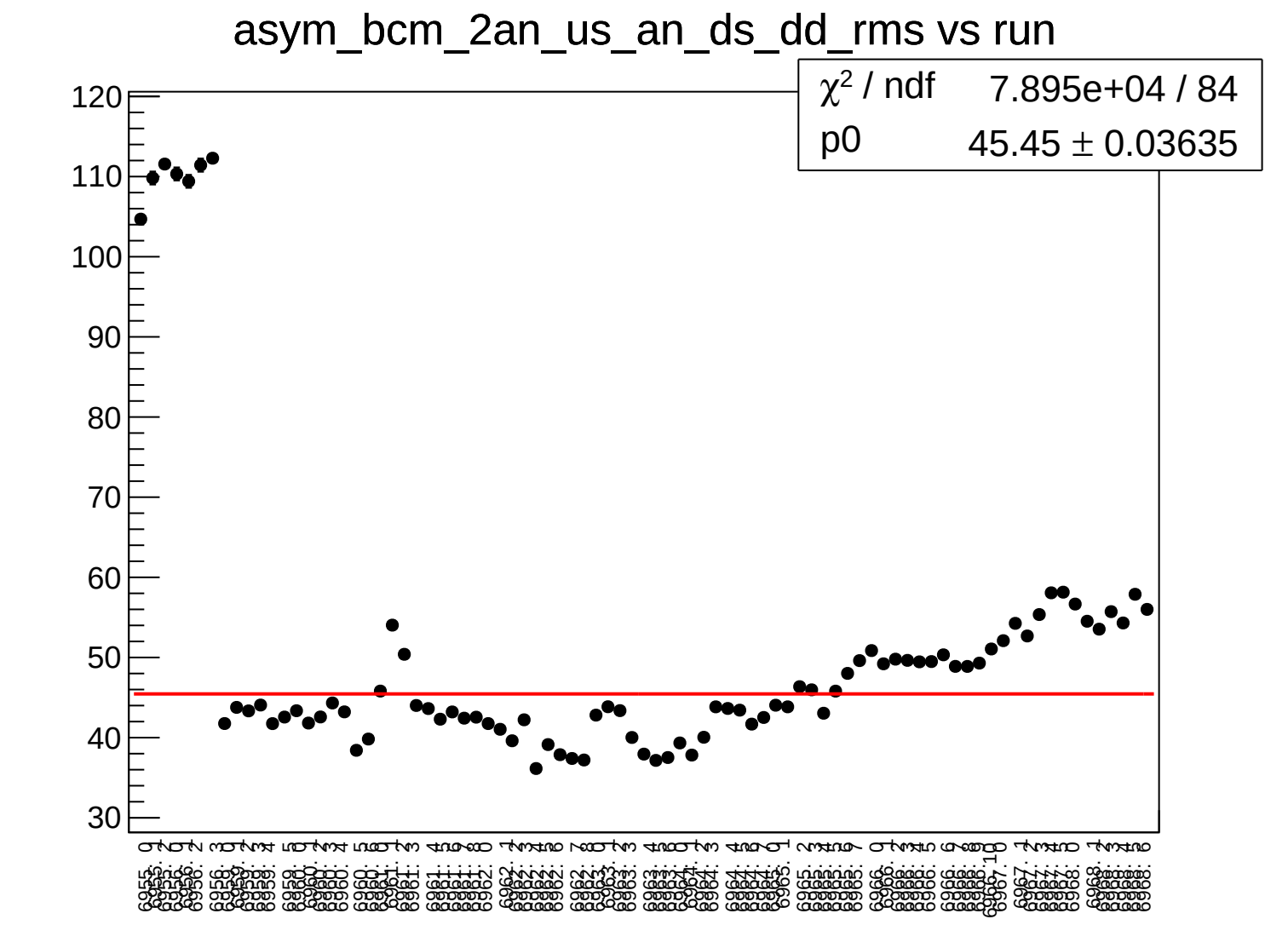

asym_bpm1i06WS_rms vs run
$\chi^2$ / ndf 9893 / 84
p0 136 ± 0.1064
260
240
220
200
180
160
140
120

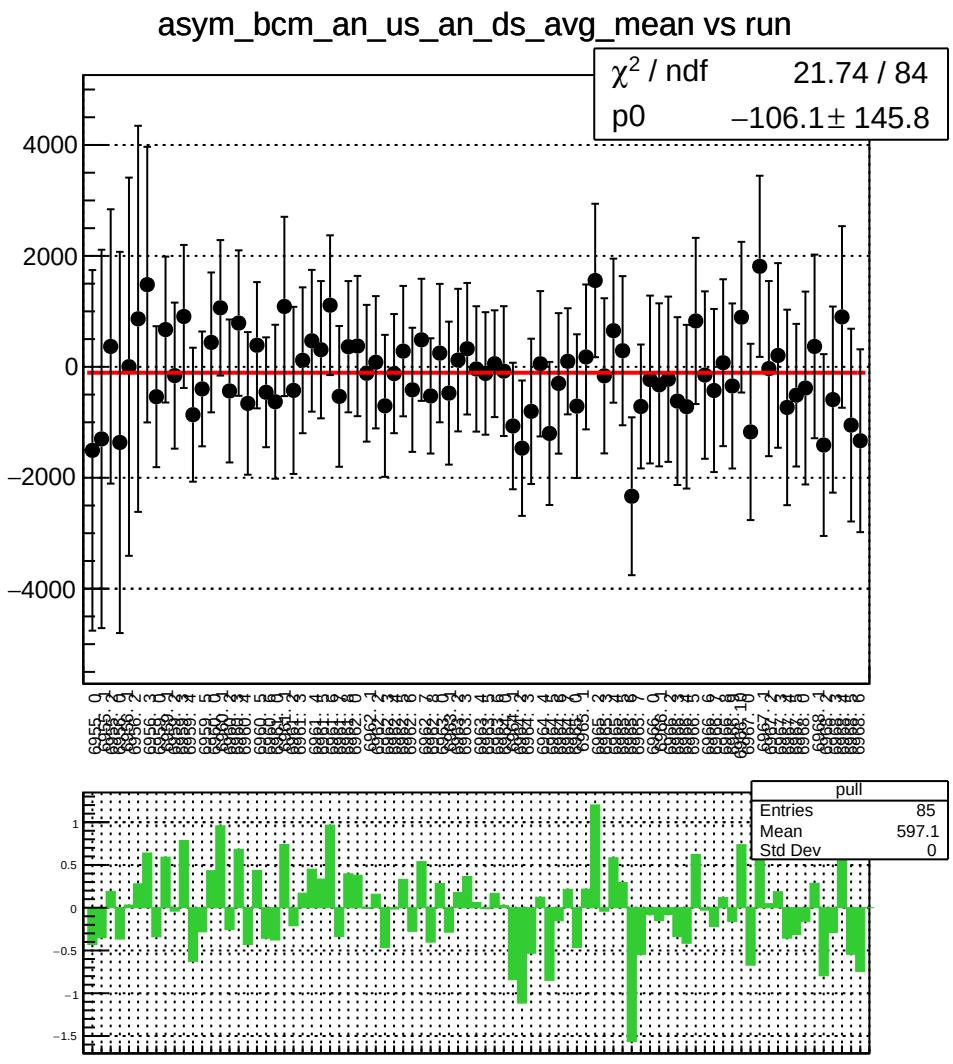

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 21.16 / 84
p0 −116.7 ± 146
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 681.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

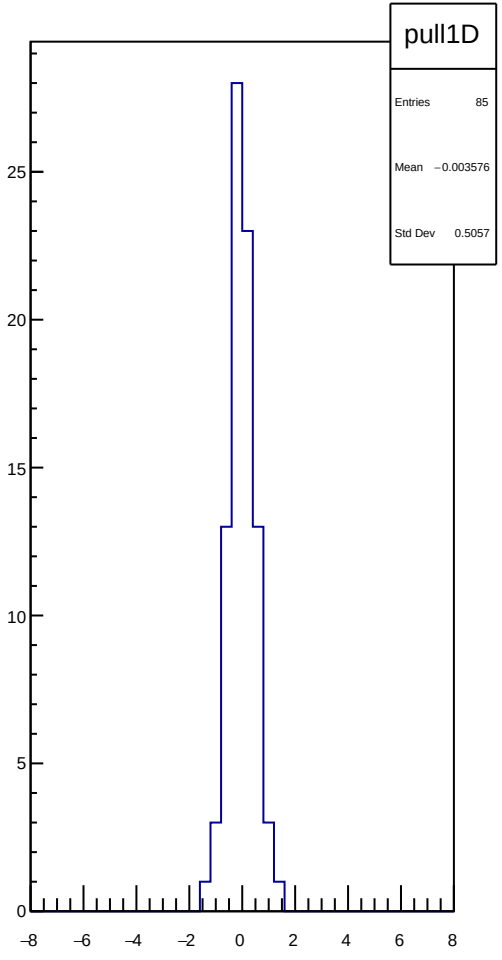

pull1D
Entries 85
Mean −0.003023
Std Dev 0.499
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

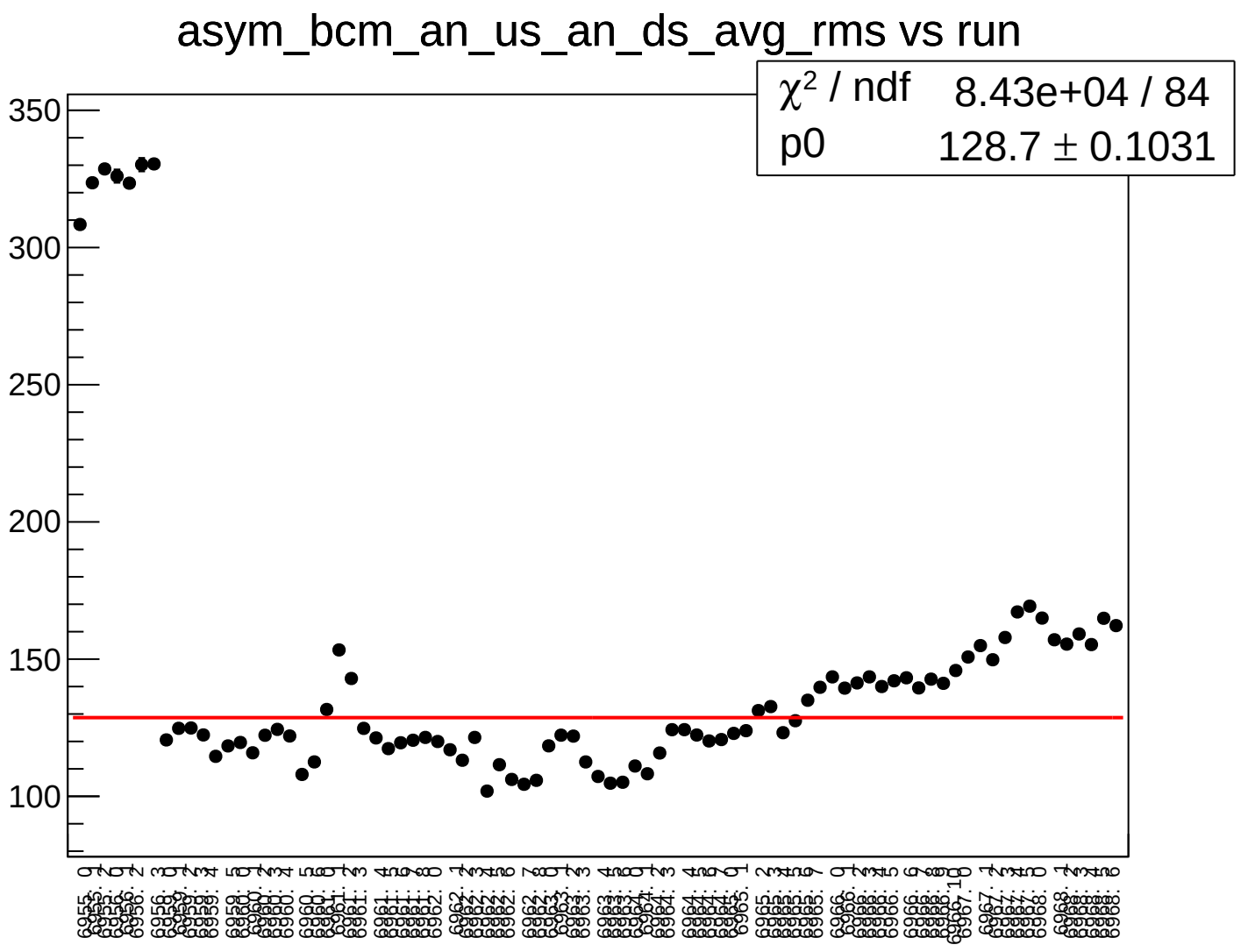

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 8.427e+04 / 84
p0 128.8 ± 0.1032
350
300
250
200
150
100

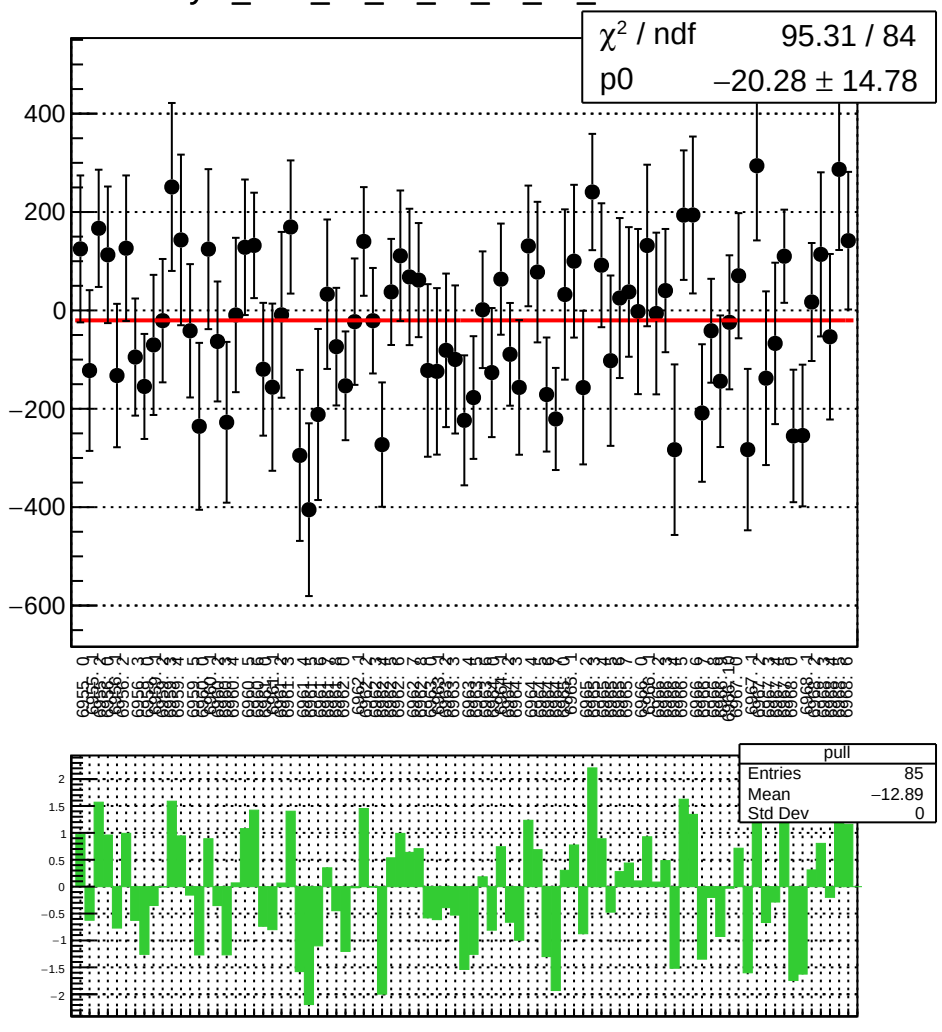

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 22.69 / 84
p0 −68.05 ± 51.4
pull
Entries 85
Mean −577.2
Std Dev 0
pull1D
Entries 85
Mean 0.002328
Std Dev 0.5166

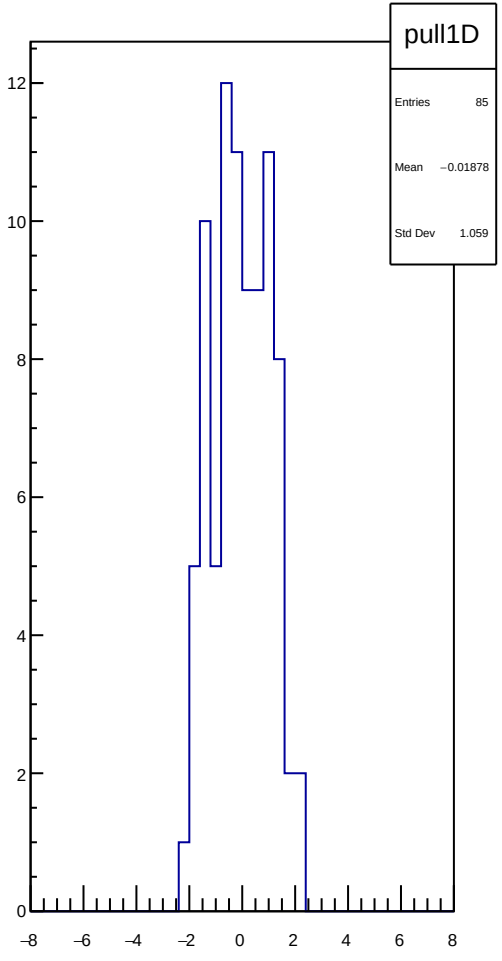

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 7.895e+04 / 84
p0 45.45 ± 0.03635
120
110
100
90
80
70
60
50
40
30

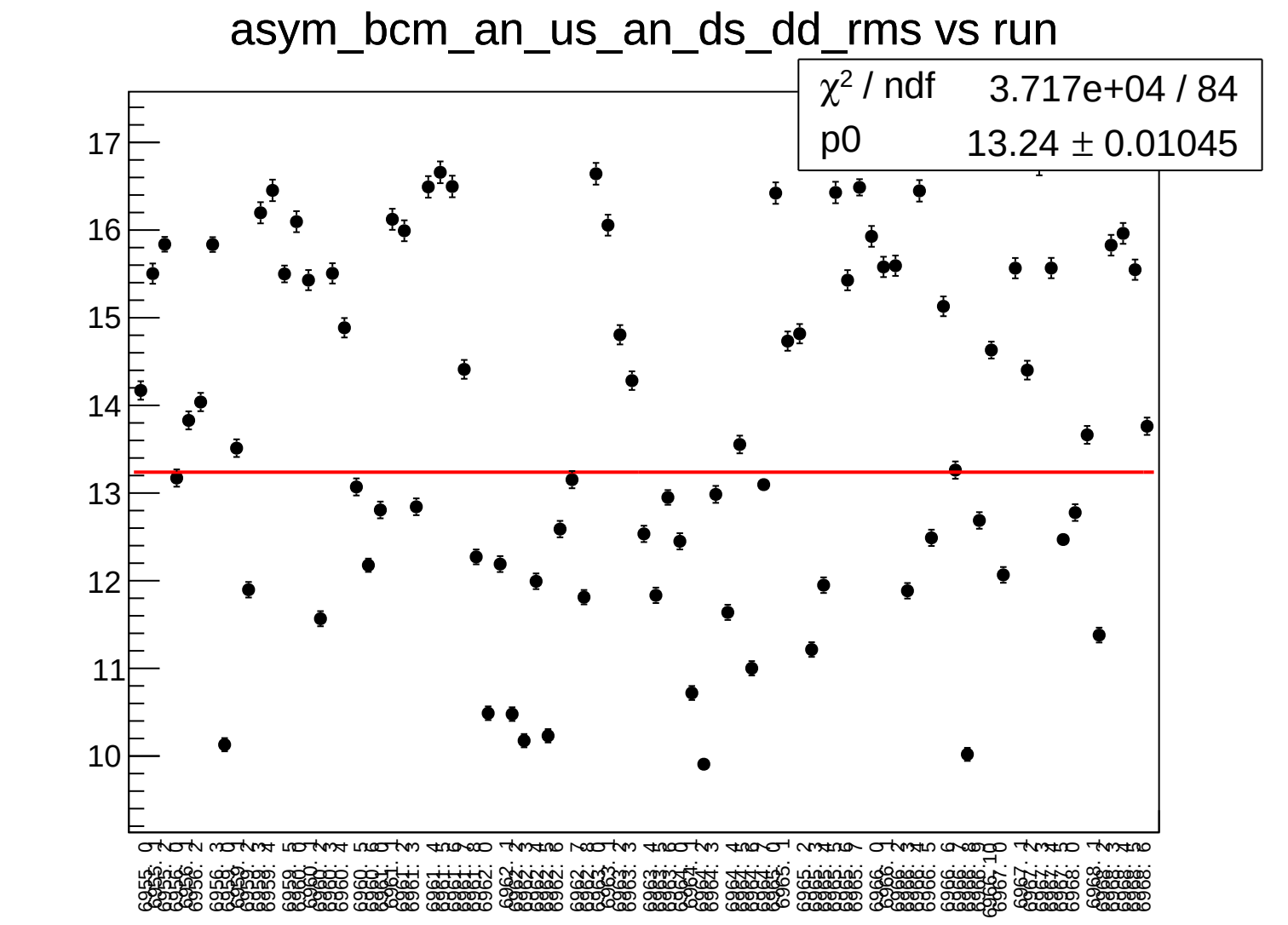

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 21.74 / 84
p0 −106.1± 145.8
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 597.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

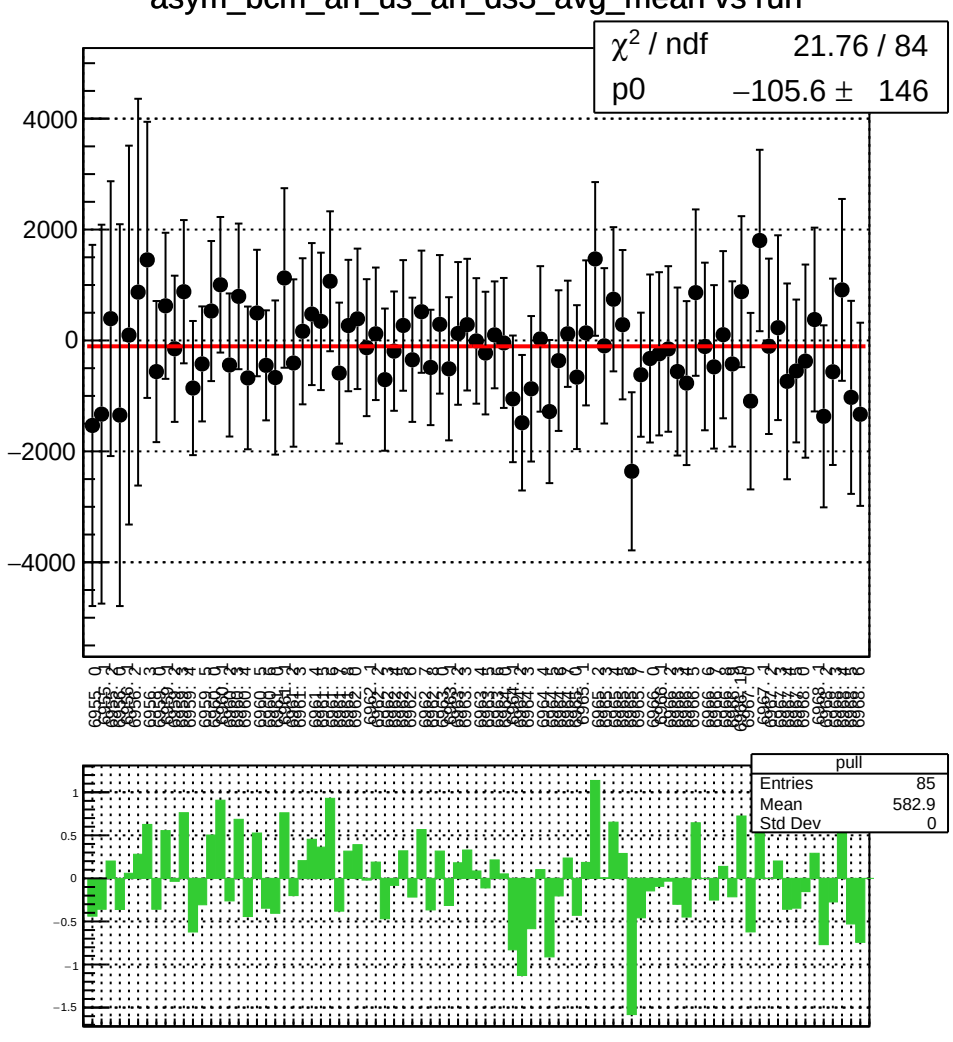

pull1D
Entries 85
Mean −0.003576
Std Dev 0.5057
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

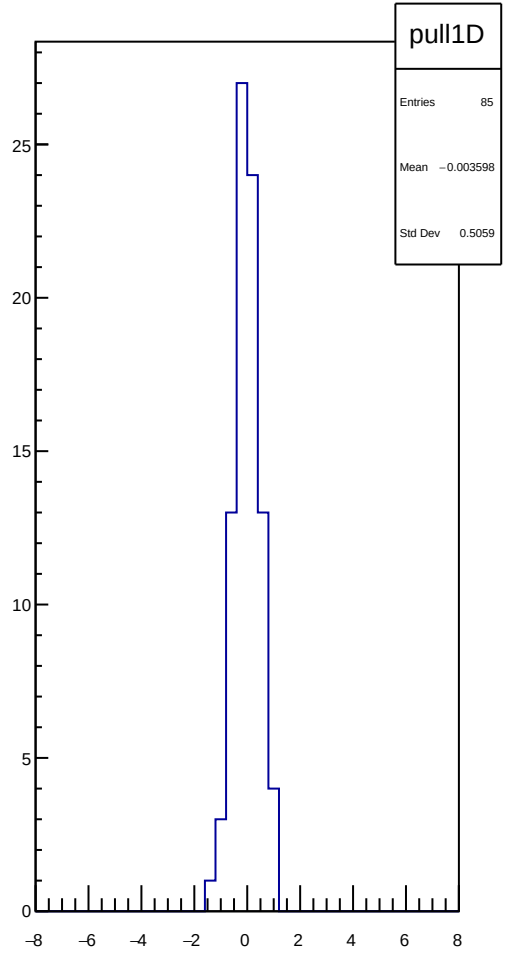

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 8.43e+04 / 84
p0 128.7 ± 0.1031
350
300
250
200
150
100

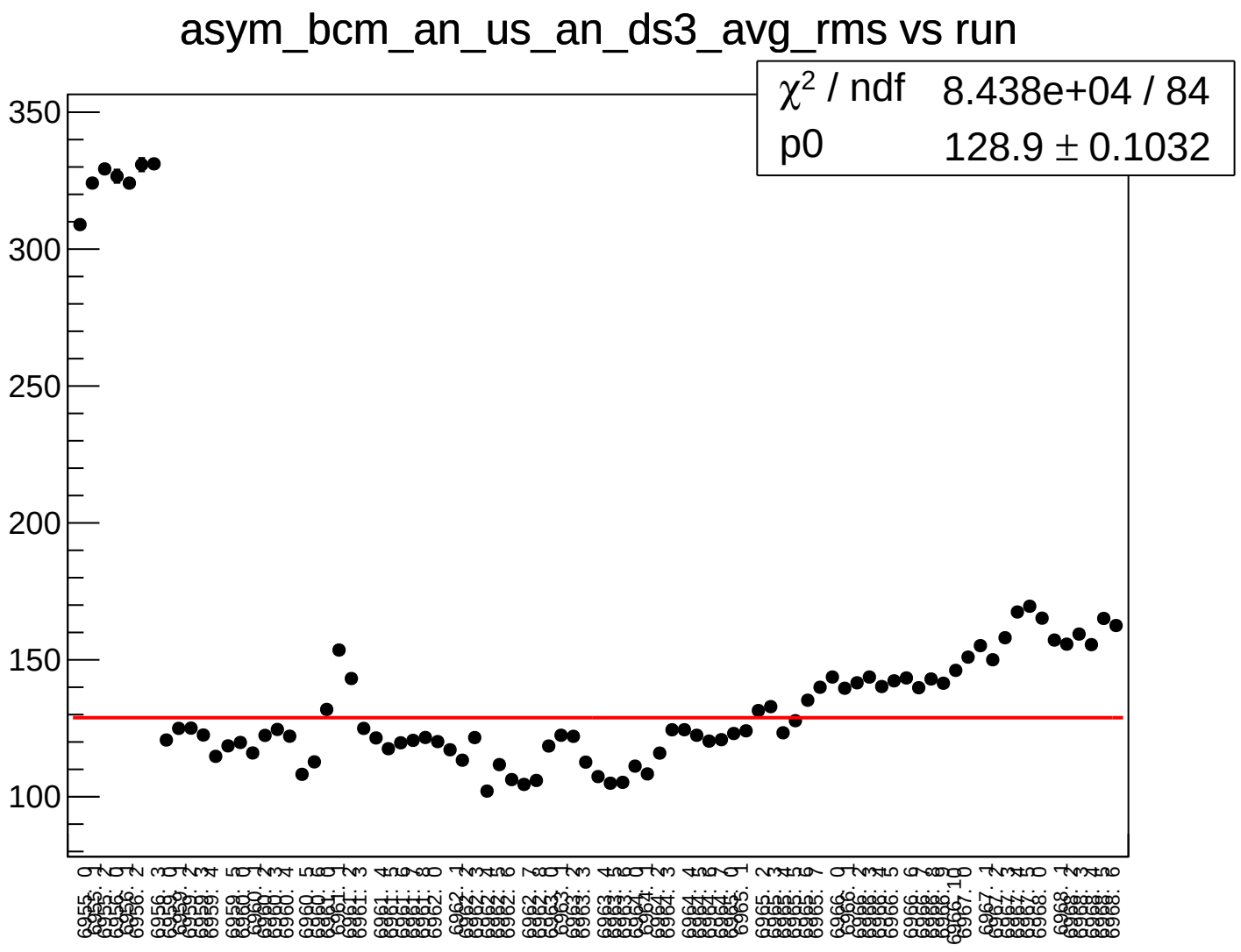

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 95.31 / 84
p0 −20.28 ± 14.78
400
200
0
−200
−400
−600
pull
Entries 85
Mean −12.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

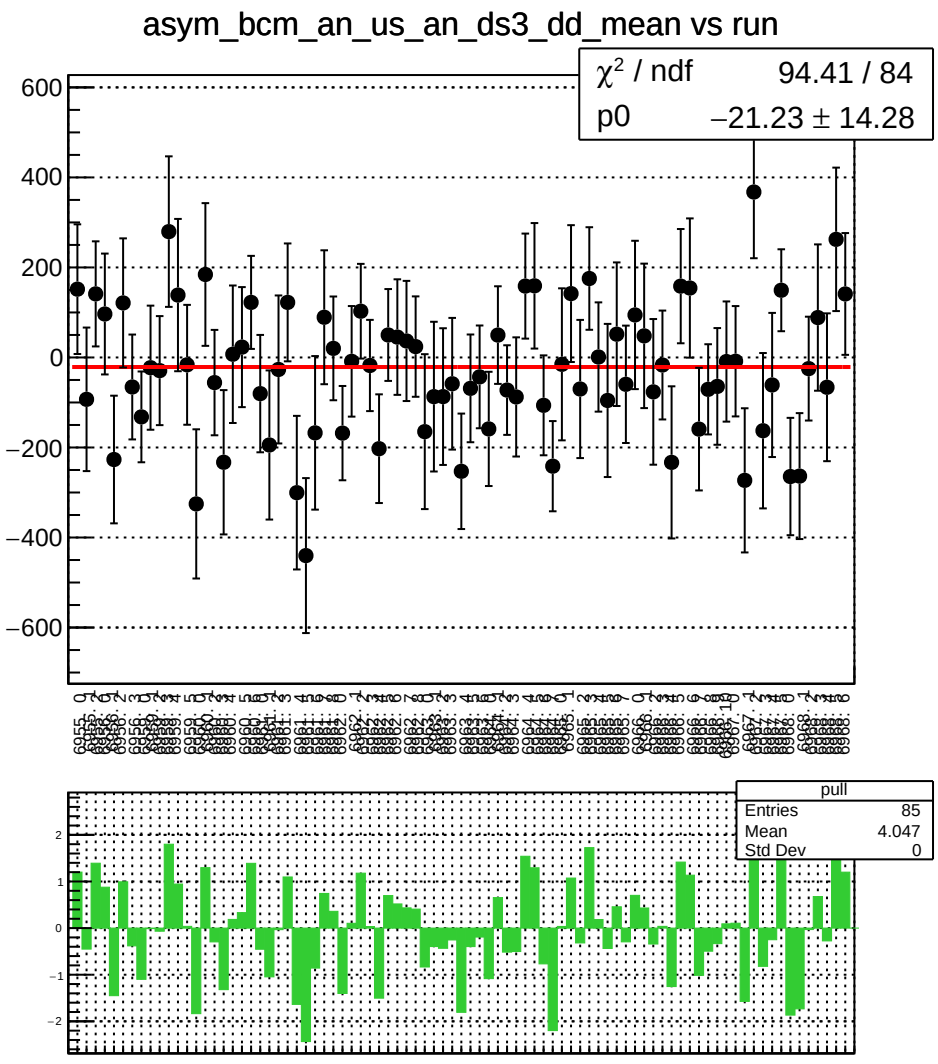

pull1D
Entries 85
Mean −0.01878
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

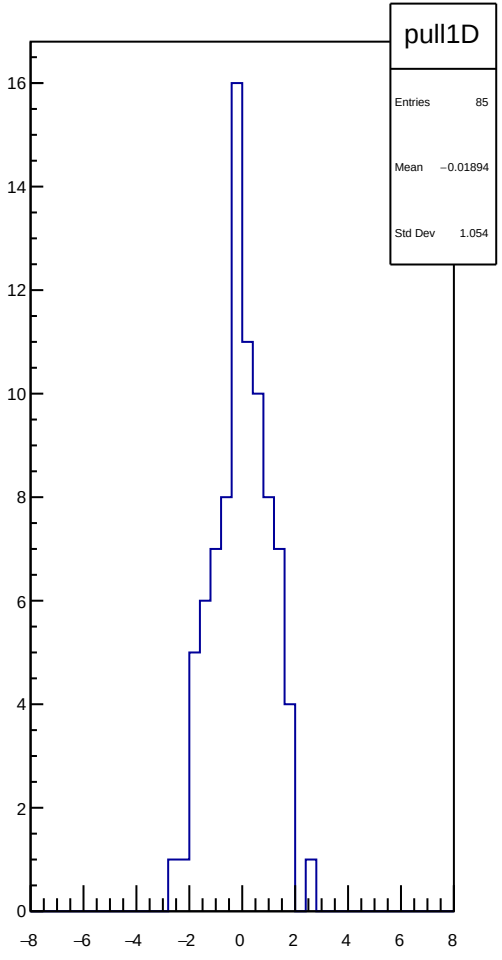

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 3.717e+04 / 84
p0 13.24 ± 0.01045
17
16
15
14
13
12
11
10

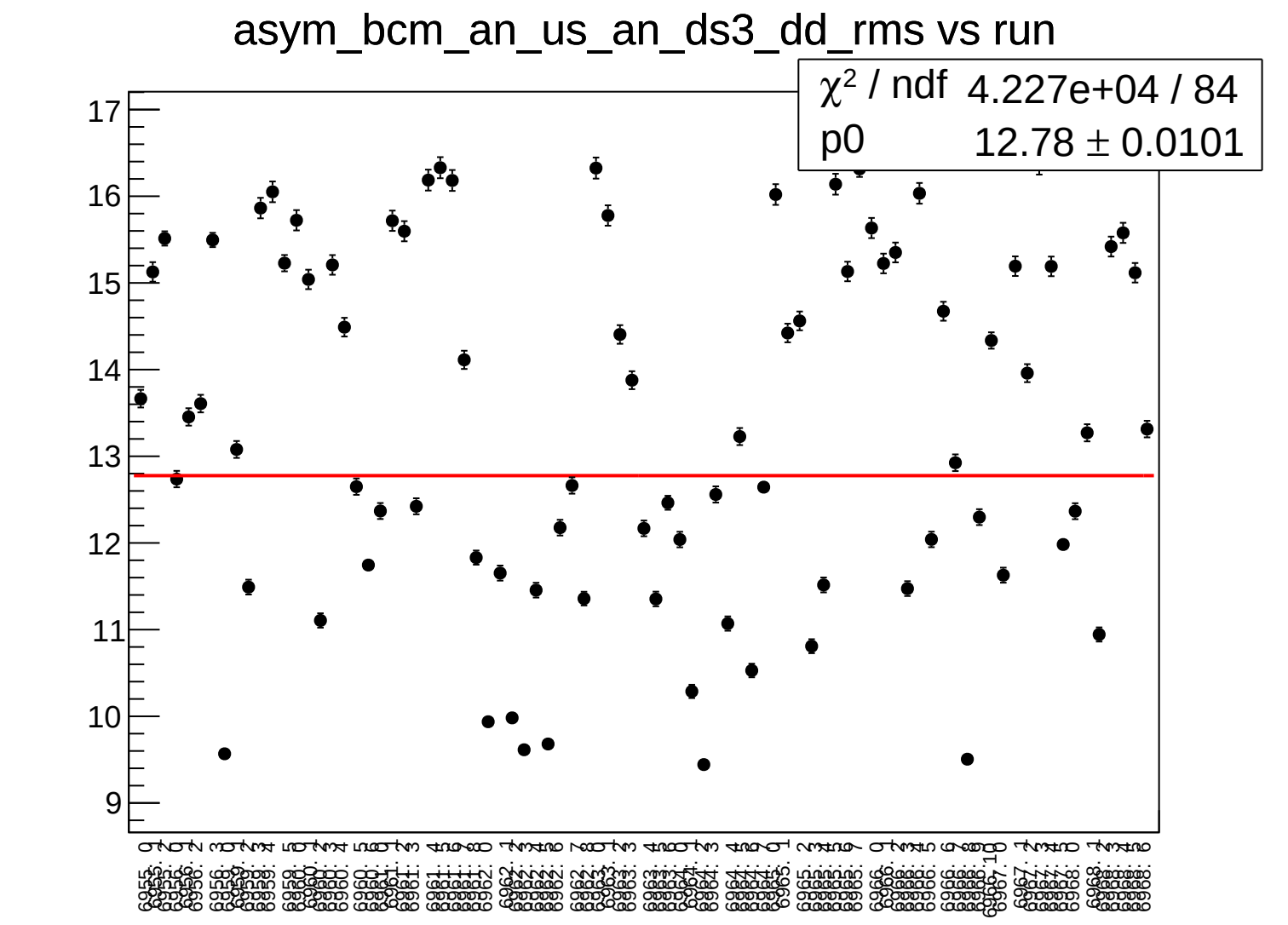

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 21.76 / 84
p0 −105.6 ± 146
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 582.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

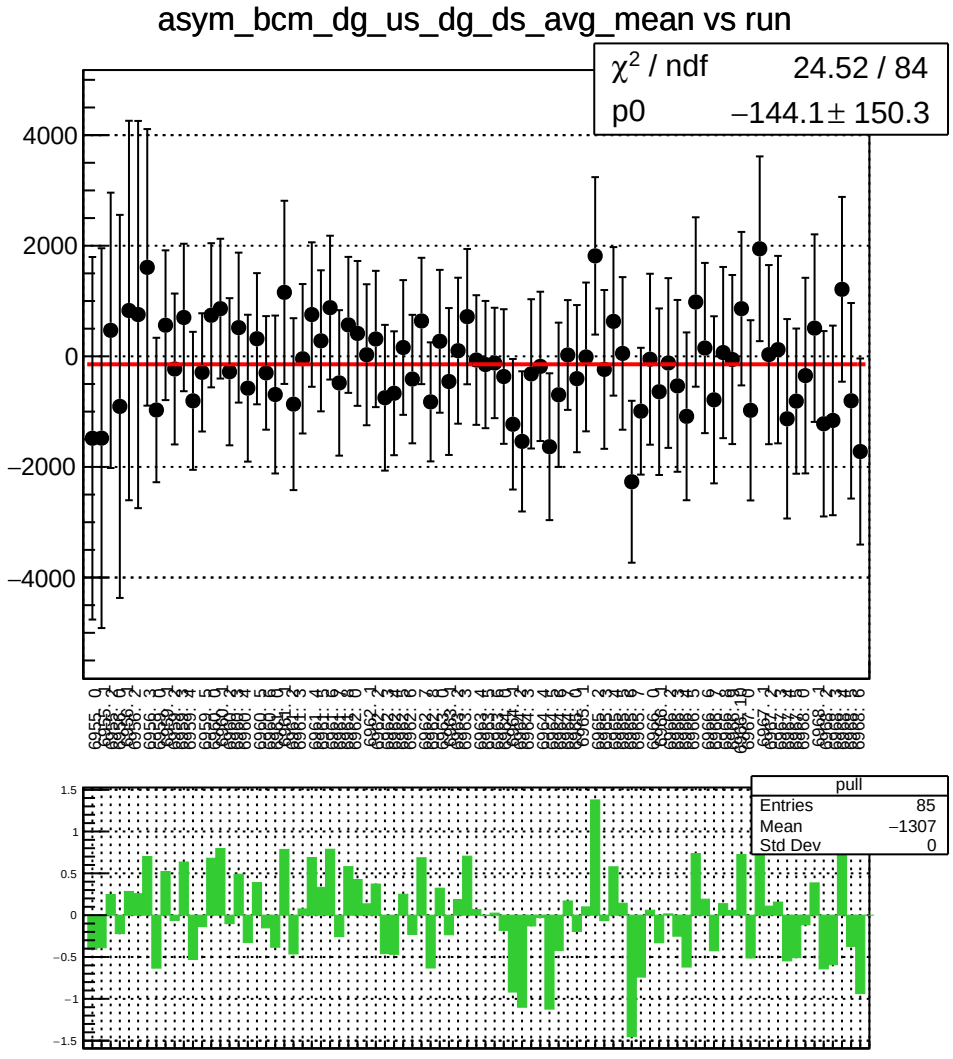

pull1D
Entries 85
Mean −0.003598
Std Dev 0.5059
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

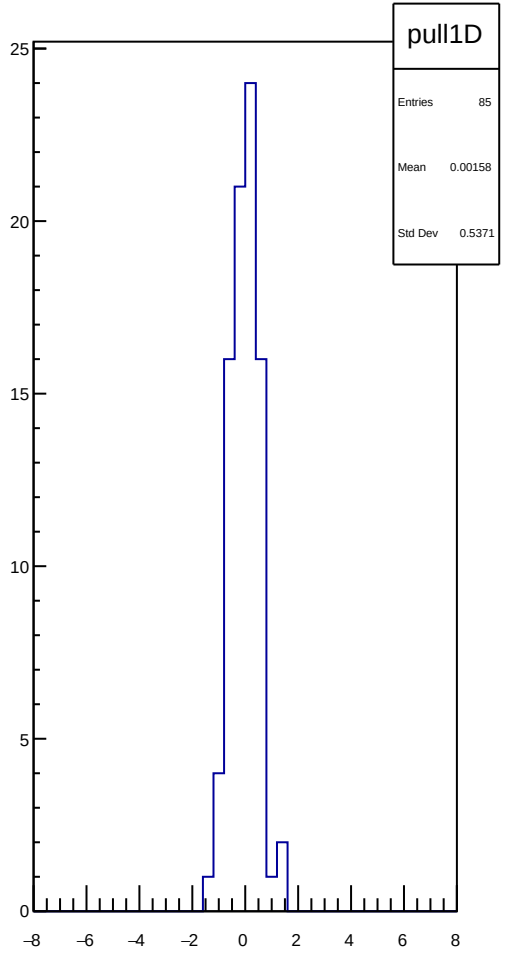

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 8.438e+04 / 84
p0 128.9 ± 0.1032
350
300
250
200
150
100

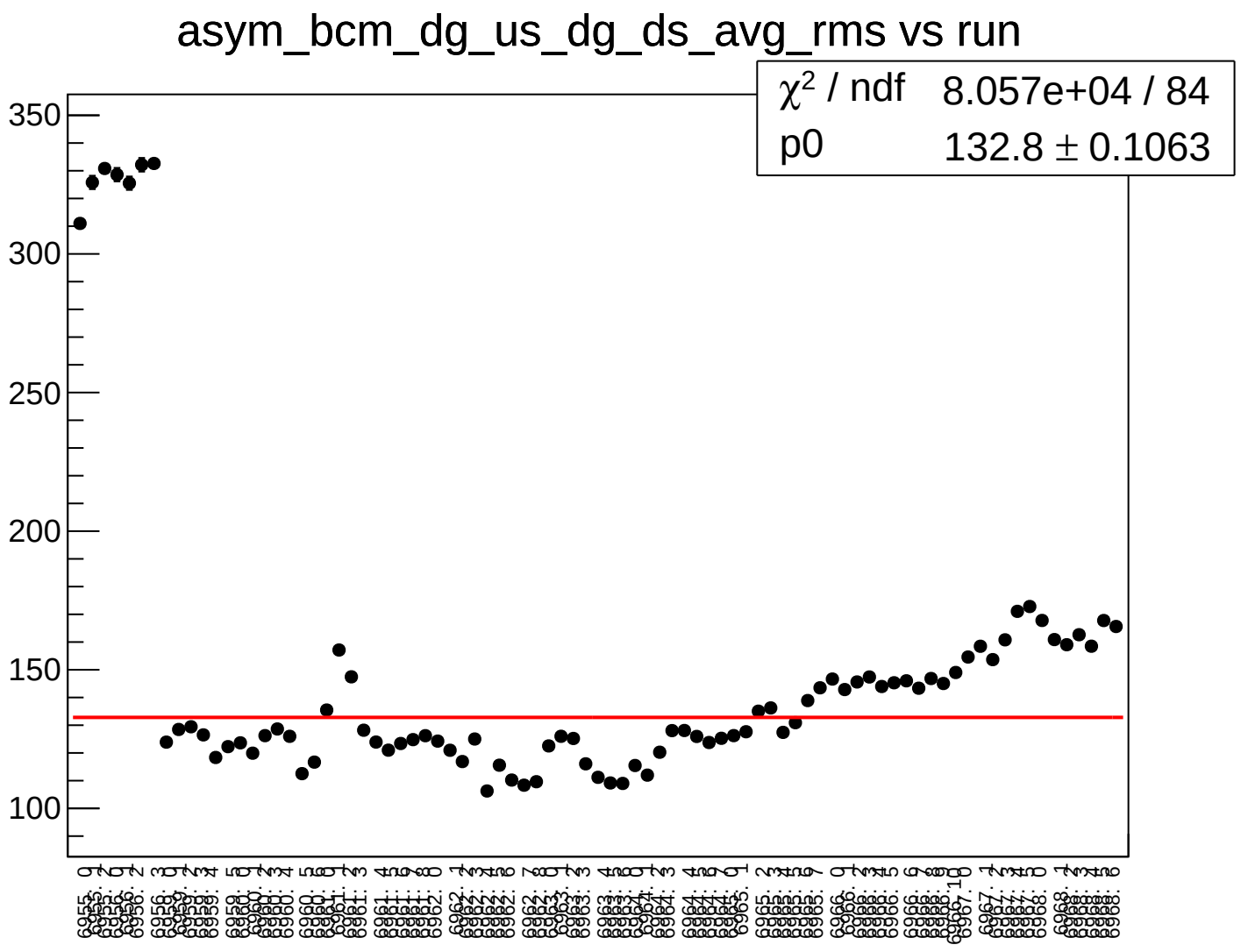

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 94.41 / 84
p0 −21.23 ± 14.28
pull
Entries 85
Mean 4.047
Std Dev 0

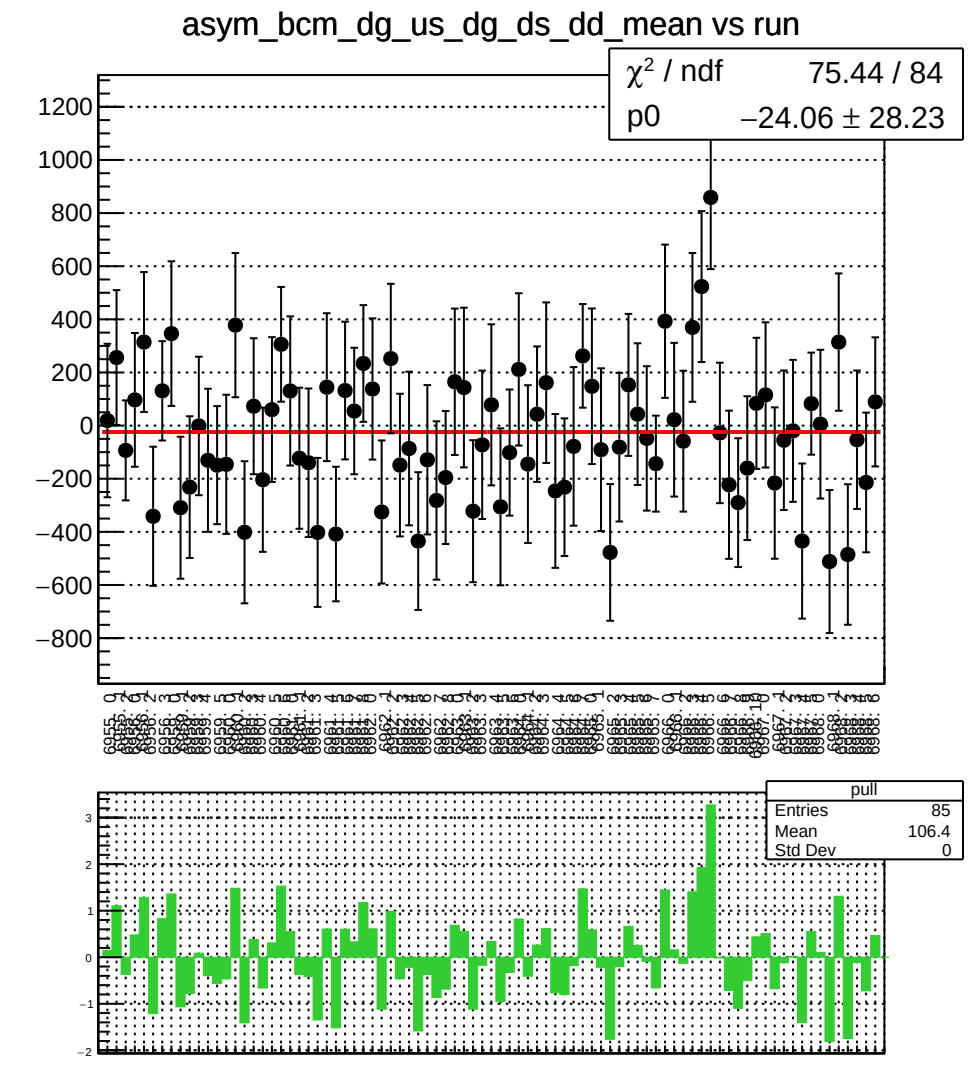

pull1D
Entries 85
Mean −0.01894
Std Dev 1.054

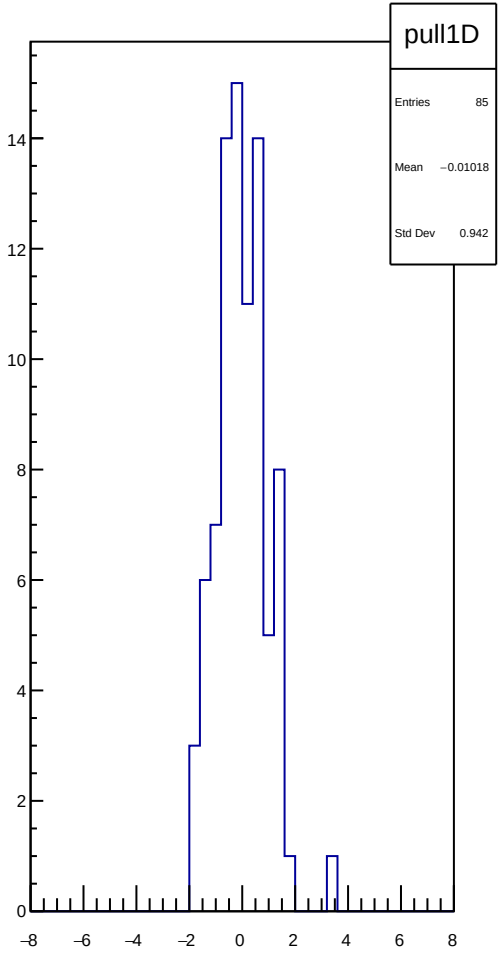

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 4.227e+04 / 84
p0 12.78 ± 0.0101
17
16
15
14
13
12
11
10
9

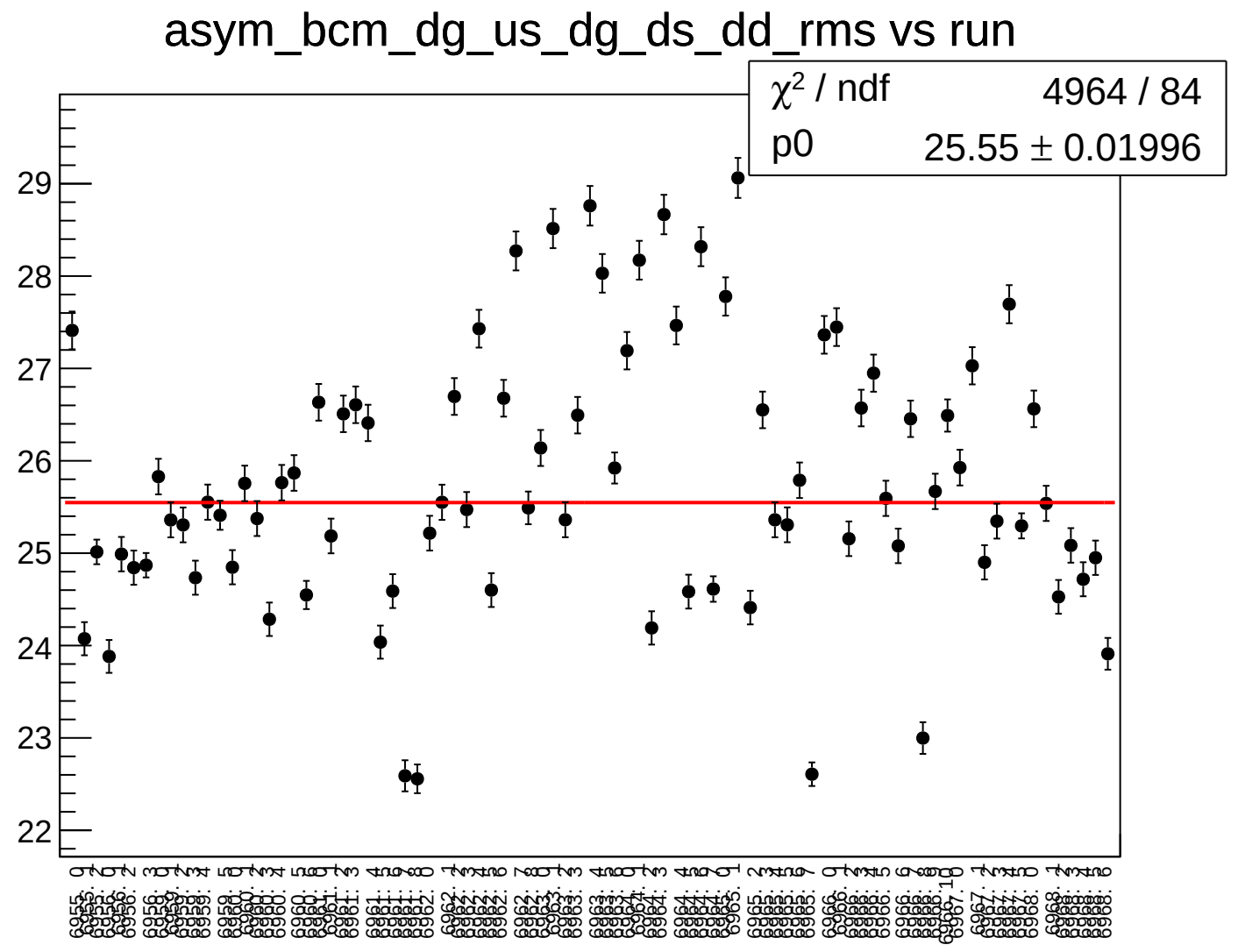

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 24.52 / 84
p0 −144.1± 150.3
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −1307
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

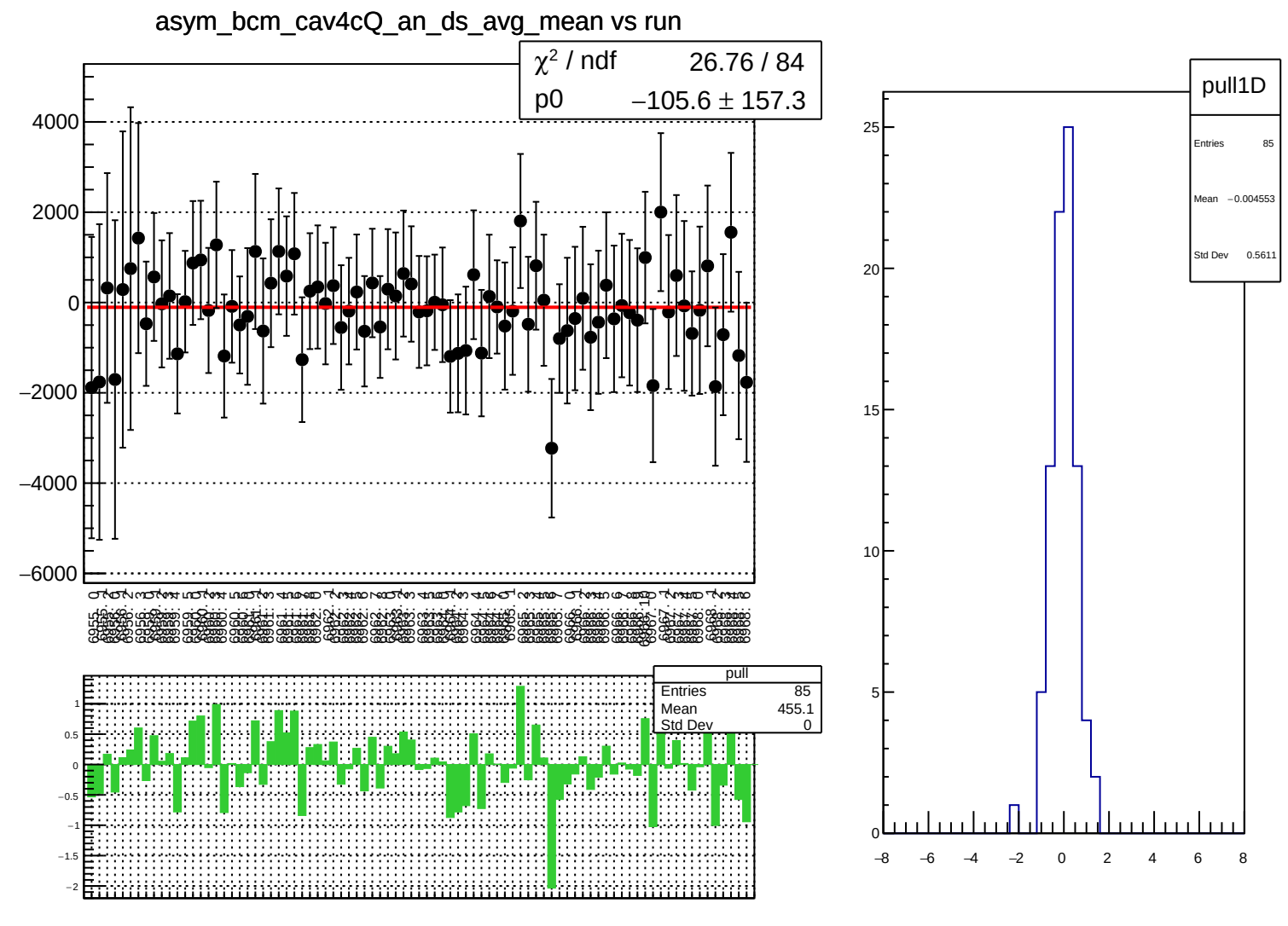

pull1D
Entries 85
Mean 0.00158
Std Dev 0.5371
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

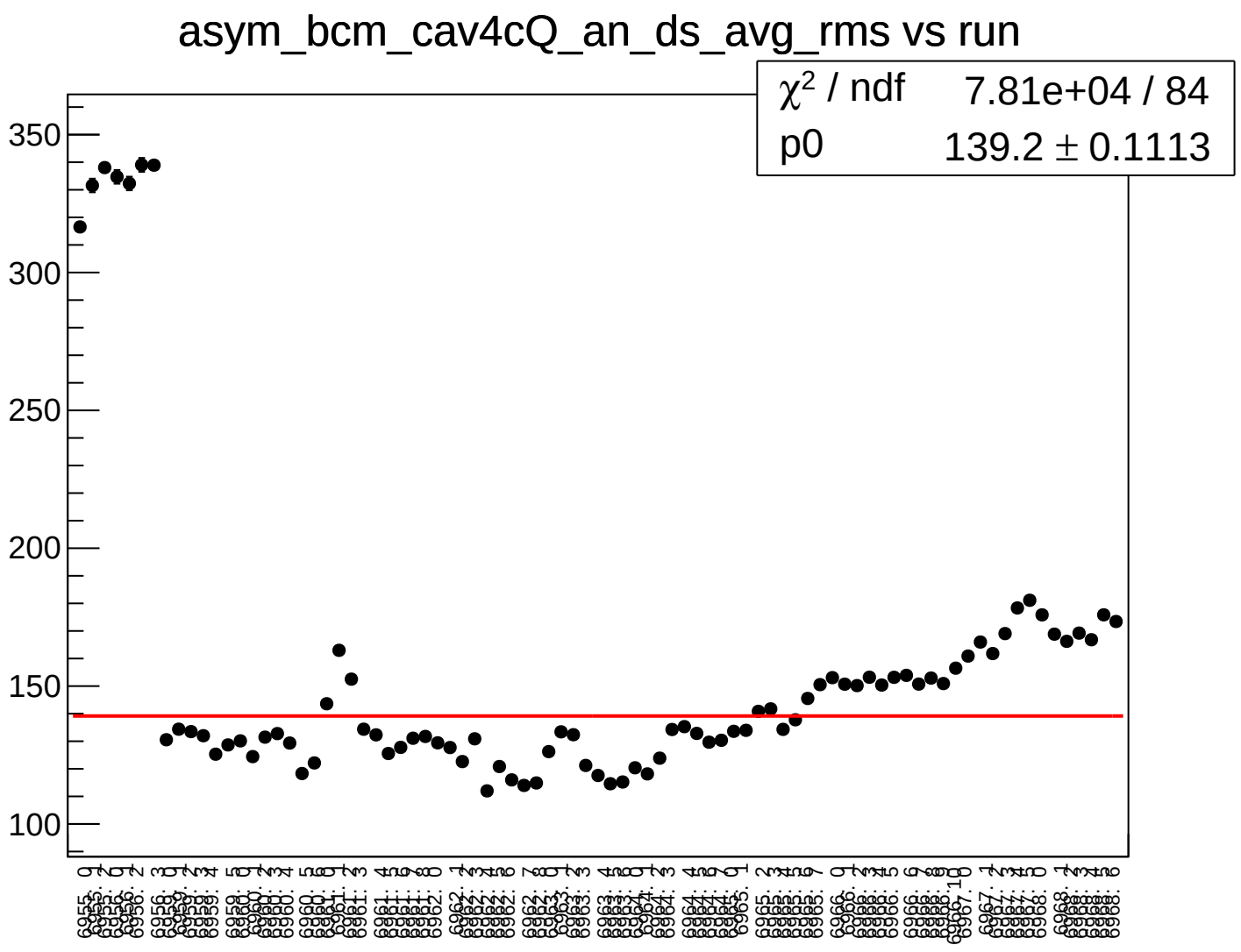

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 8.057e+04 / 84
p0 132.8 ± 0.1063
350
300
250
200
150
100

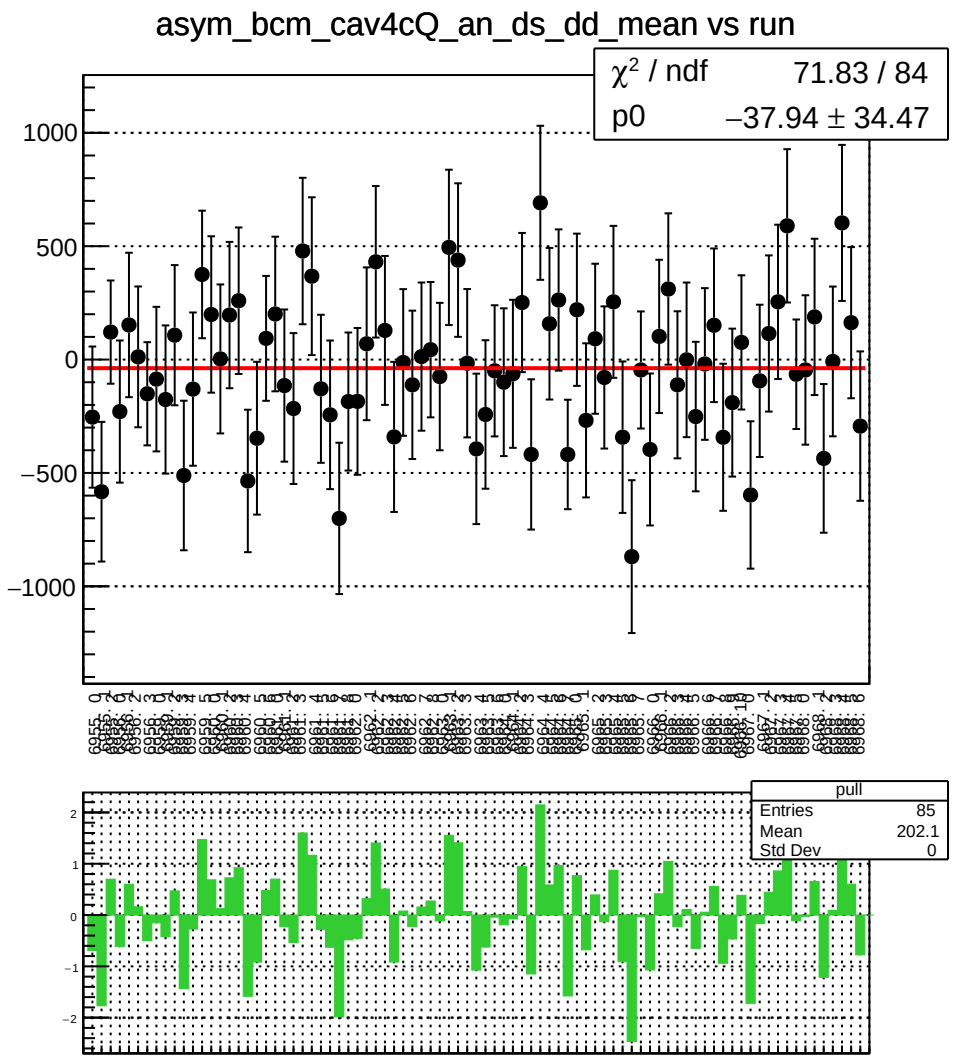

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 75.44 / 84
p0 −24.06 ± 28.23
pull
Entries 85
Mean 106.4
Std Dev 0

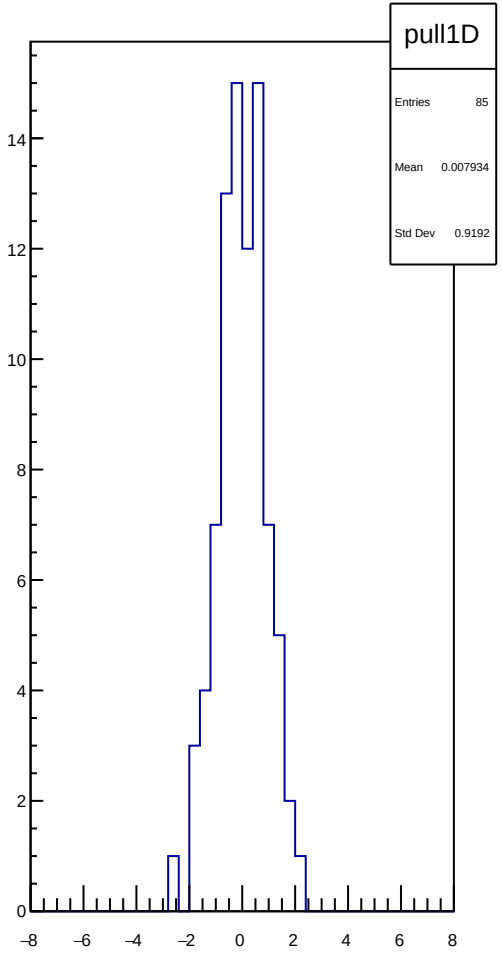

pull1D
Entries 85
Mean −0.01018
Std Dev 0.942

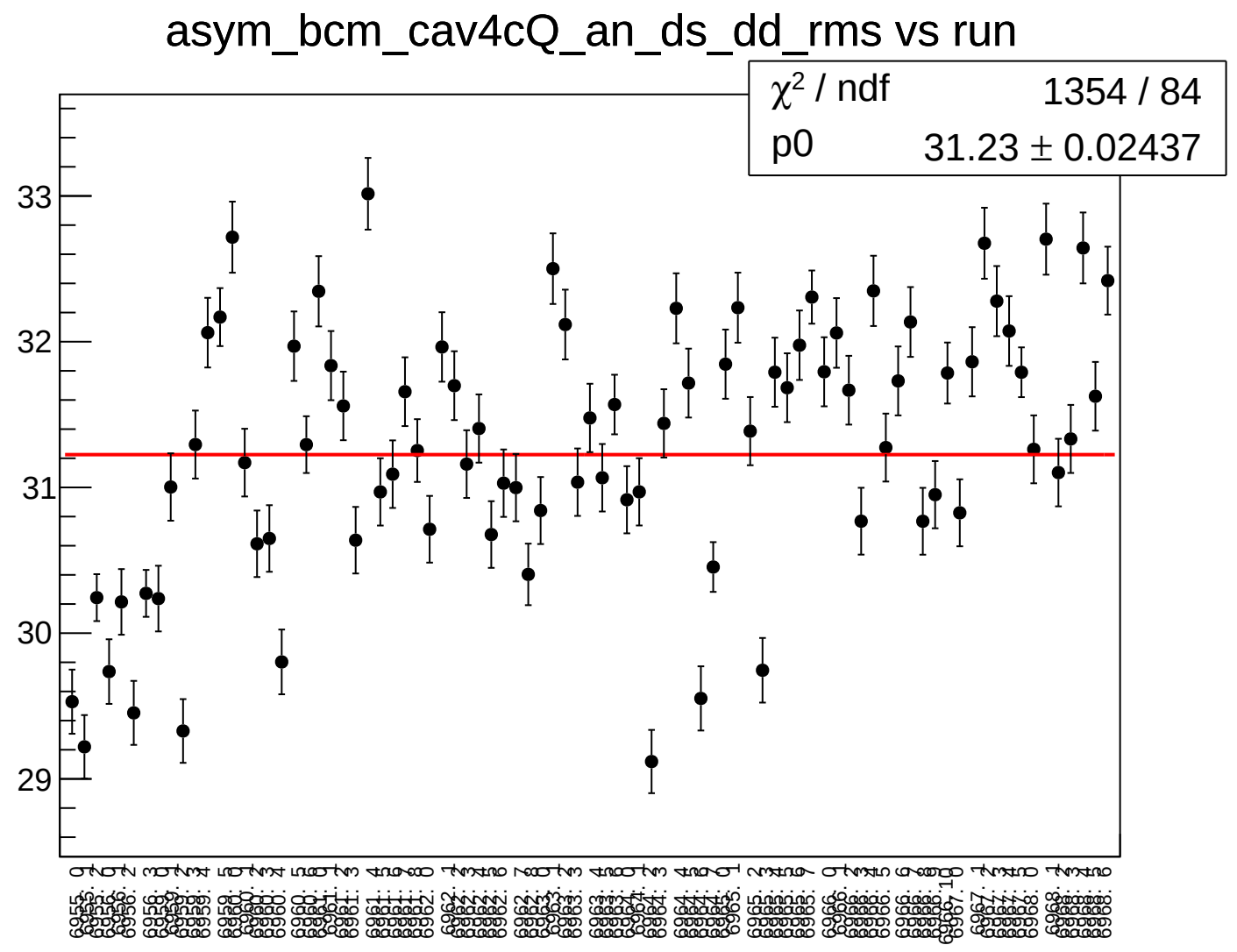

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 4964 / 84
p0 25.55 ± 0.01996
29
28
27
26
25
24
23
22

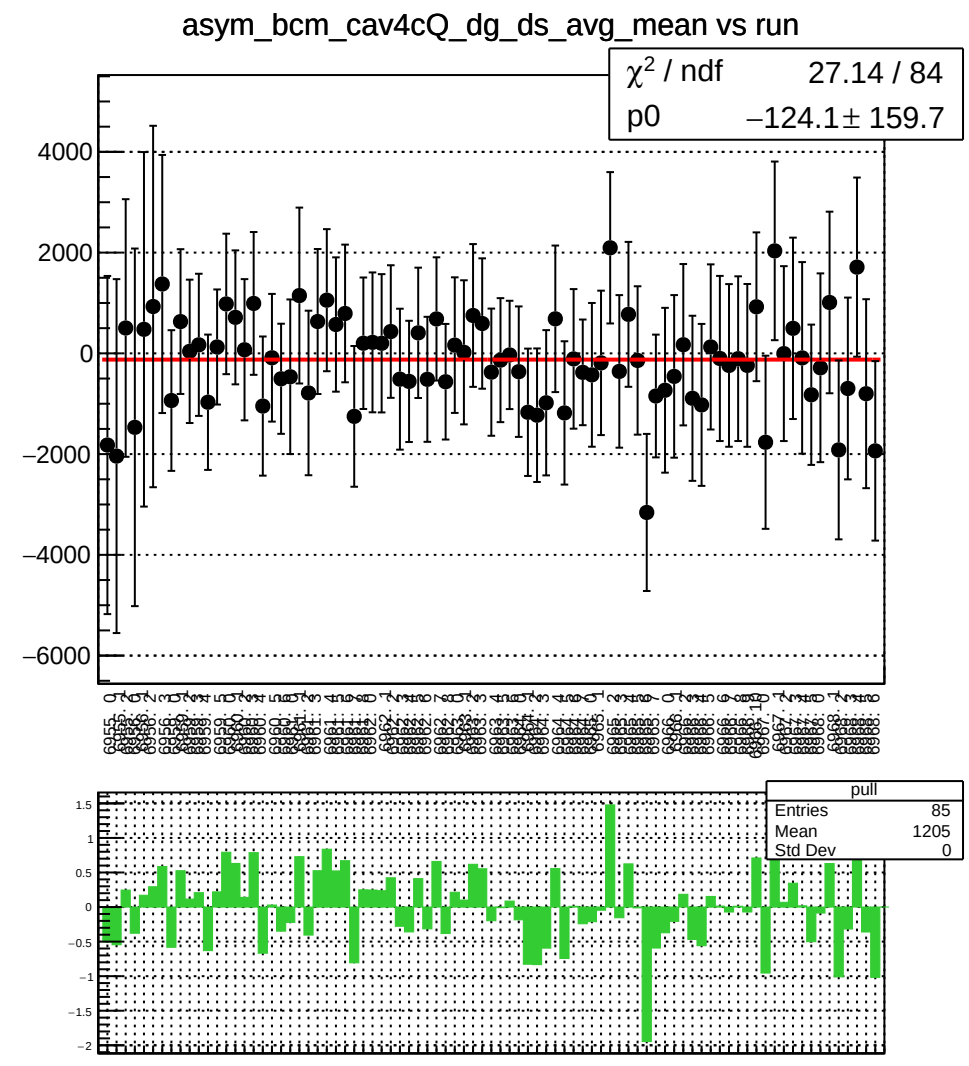

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 26.76 / 84
p0 −105.6 ± 157.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 455.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.004553
Std Dev 0.5611
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

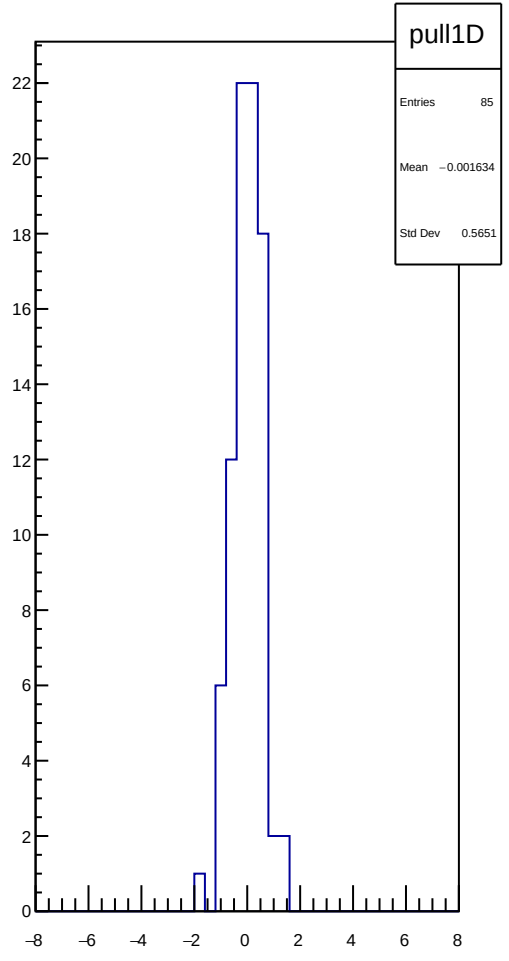

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 7.81e+04 / 84
p0 139.2 ± 0.1113
350
300
250
200
150
100

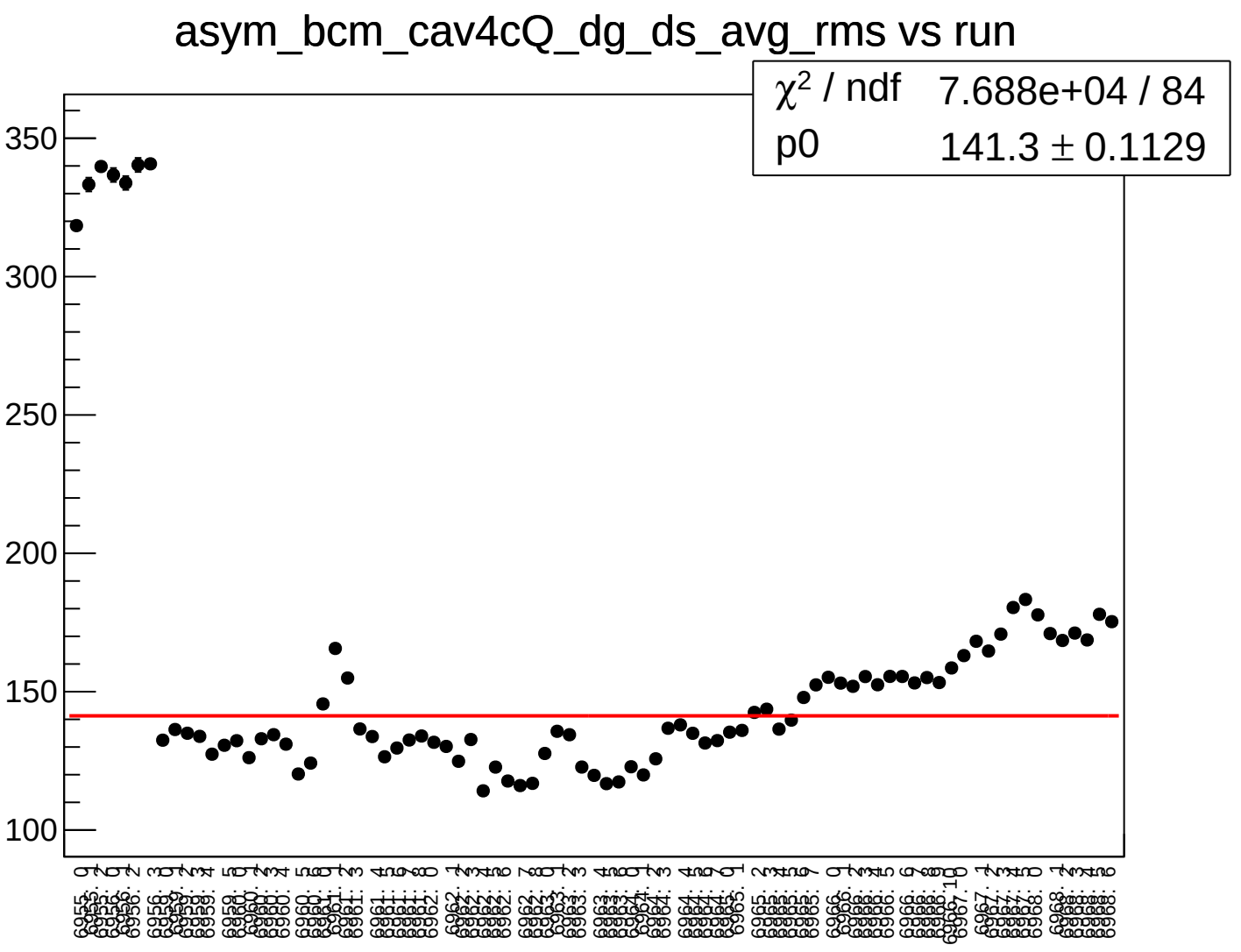

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 71.83 / 84
p0 −37.94 ± 34.47
1000
500
0
−500
−1000
pull
Entries 85
Mean 202.1
Std Dev 0
2
1
0
−1
−2

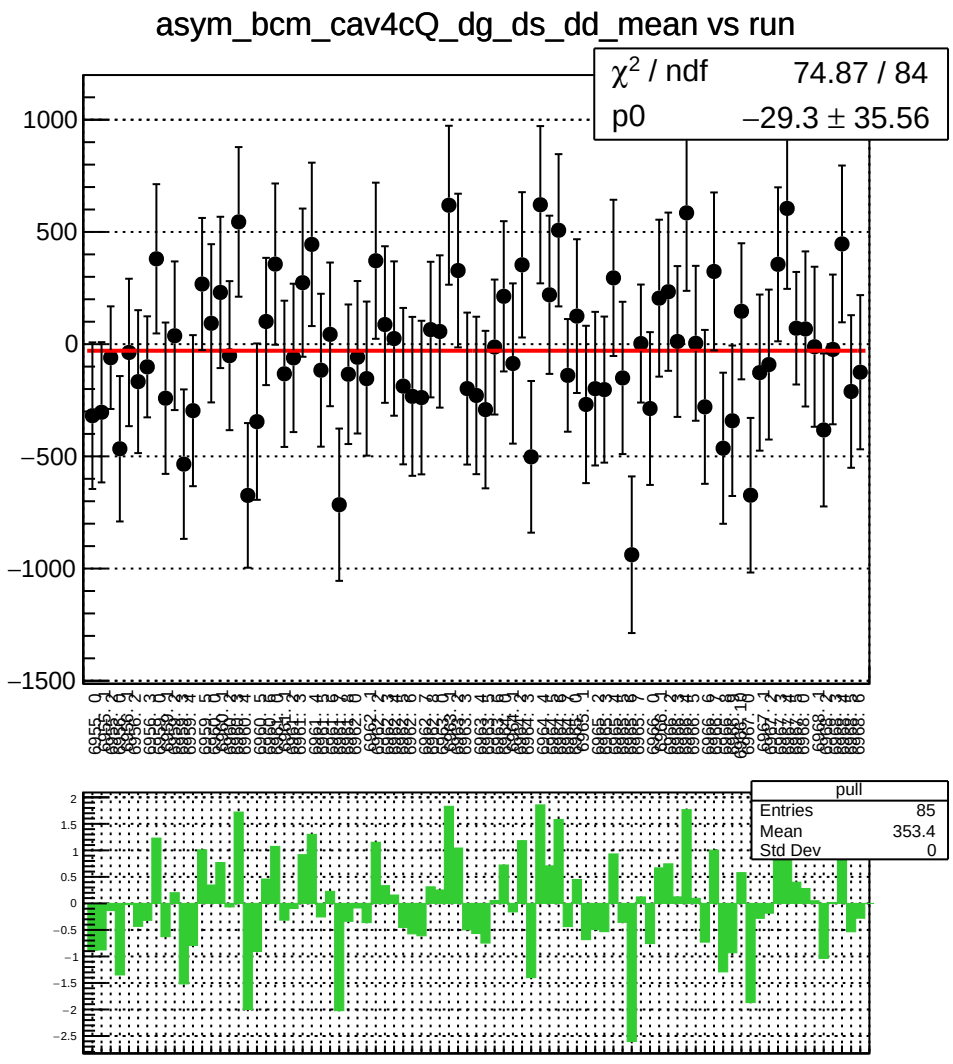

pull1D
Entries 85
Mean 0.007934
Std Dev 0.9192
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

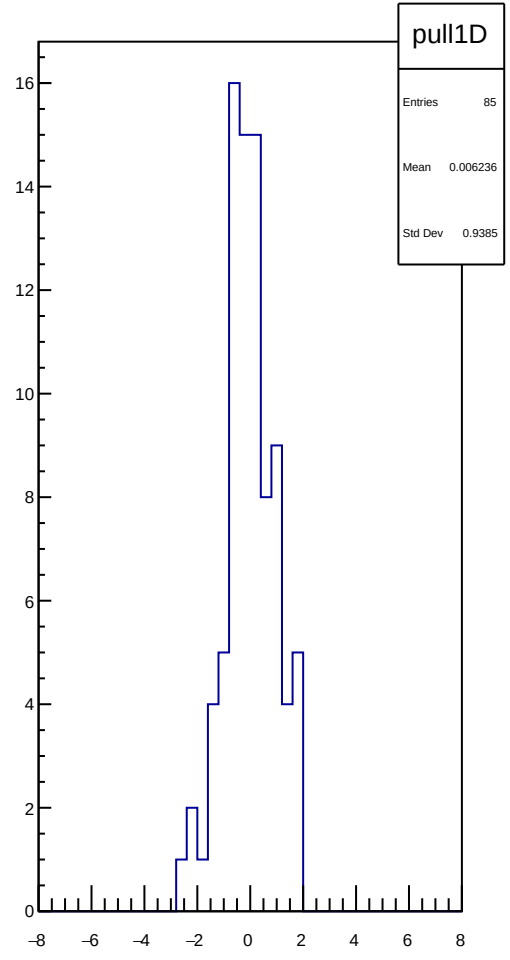

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 1354 / 84
p0 31.23 ± 0.02437
33
32
31
30
29

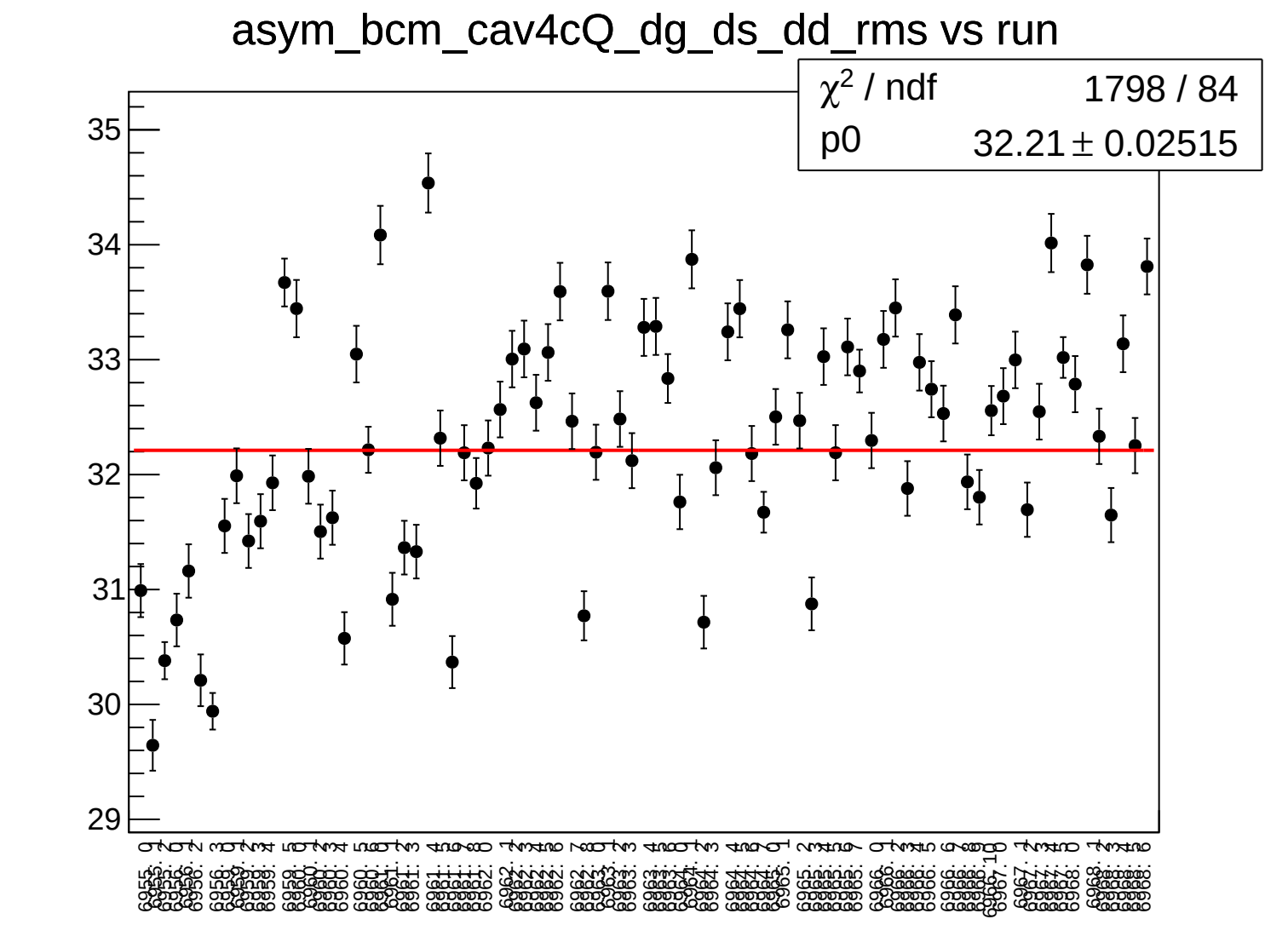

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 27.14 / 84
p0 −124.1± 159.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 1205
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

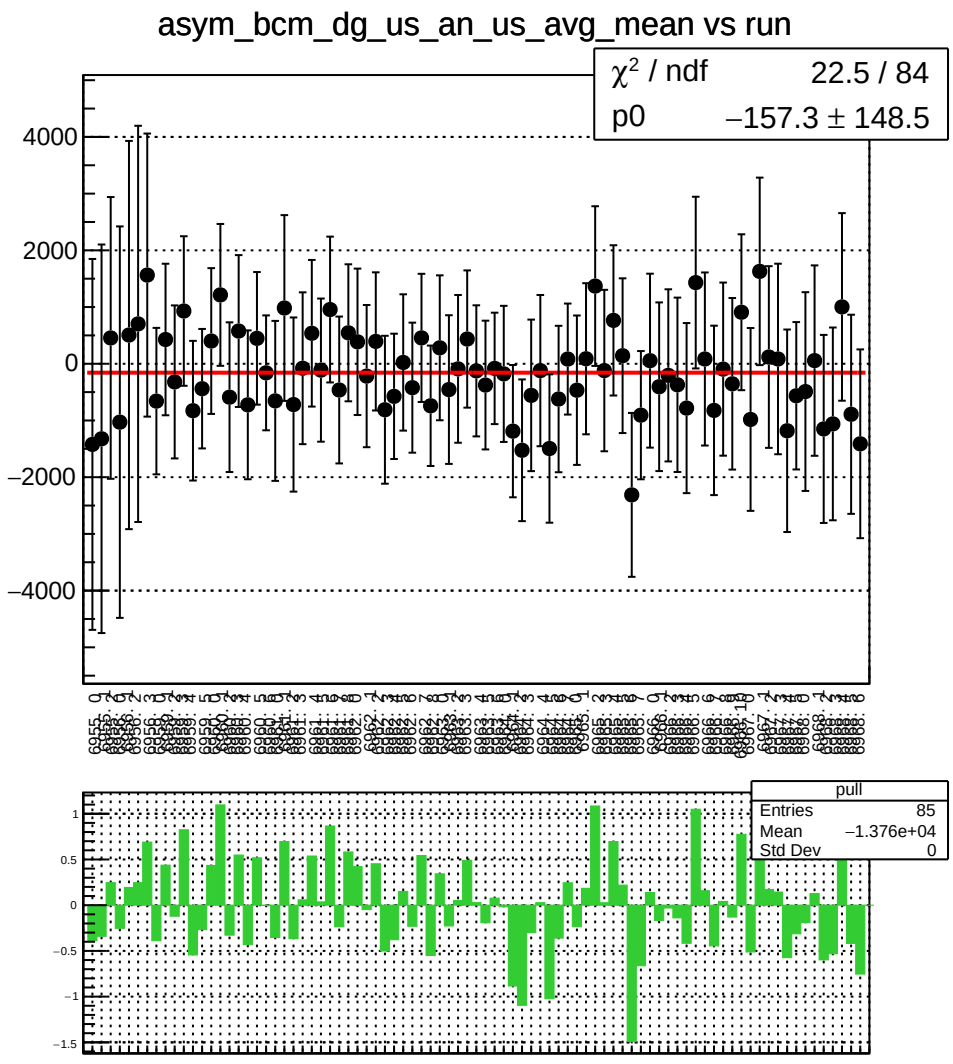

pull1D
Entries 85
Mean −0.001634
Std Dev 0.5651
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

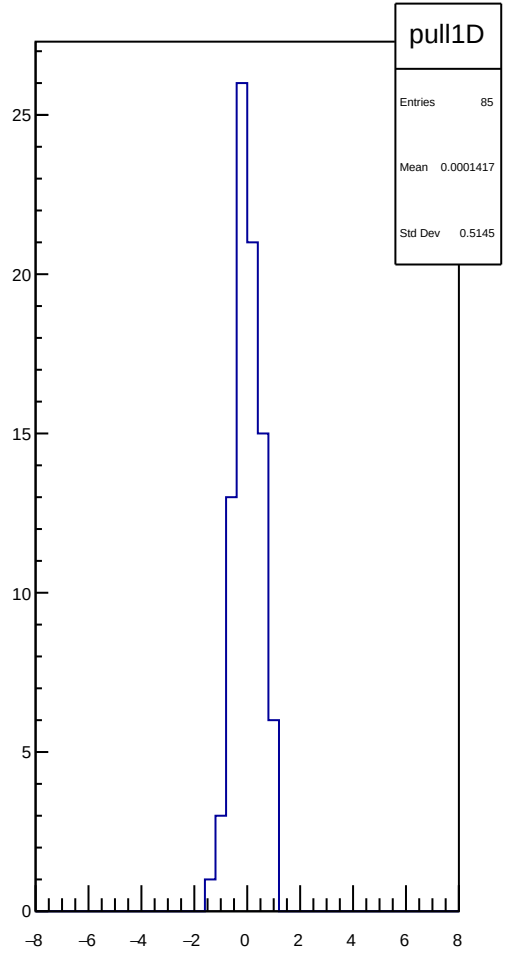

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 7.688e+04 / 84
p0 141.3 ± 0.1129
350
300
250
200
150
100

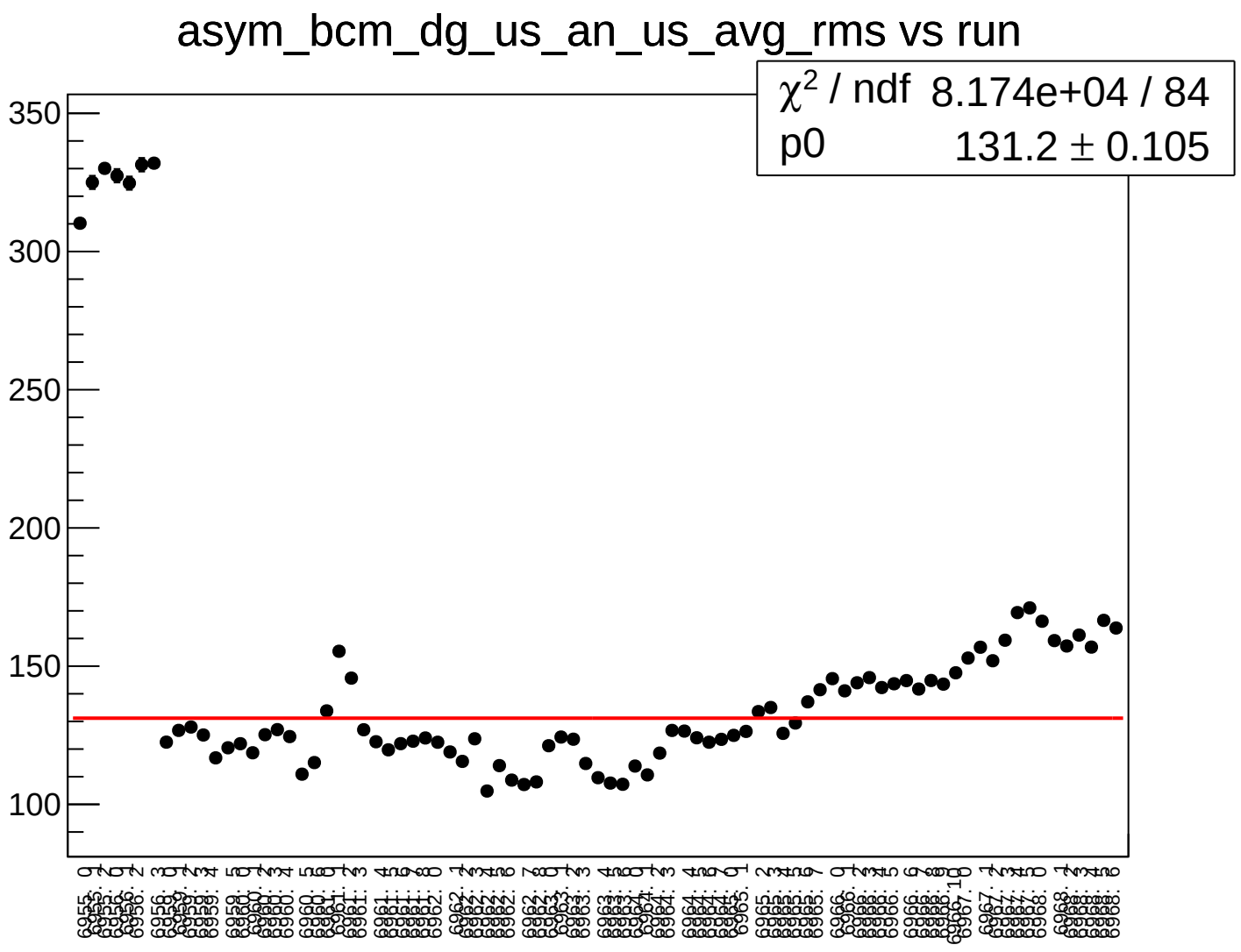

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 74.87 / 84
p0 −29.3 ± 35.56
pull
Entries 85
Mean 353.4
Std Dev 0

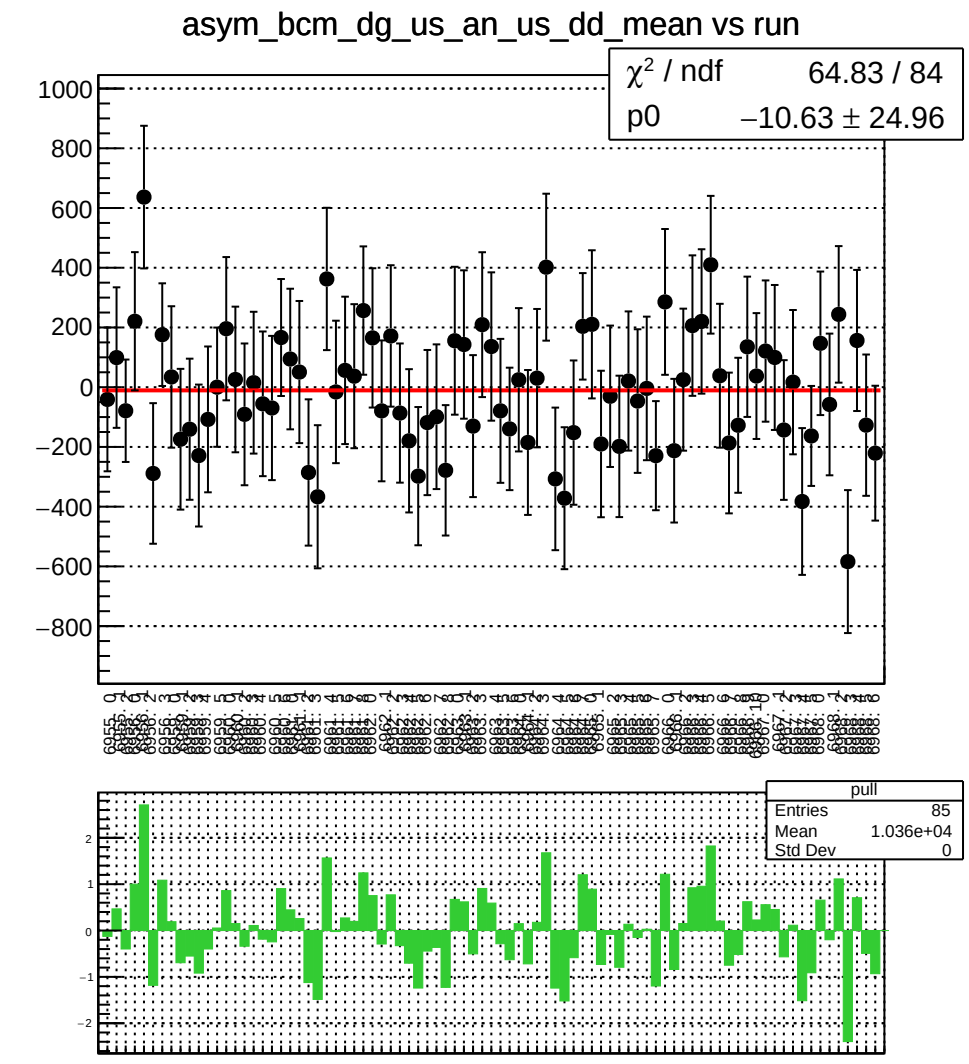

pull1D
Entries 85
Mean 0.006236
Std Dev 0.9385

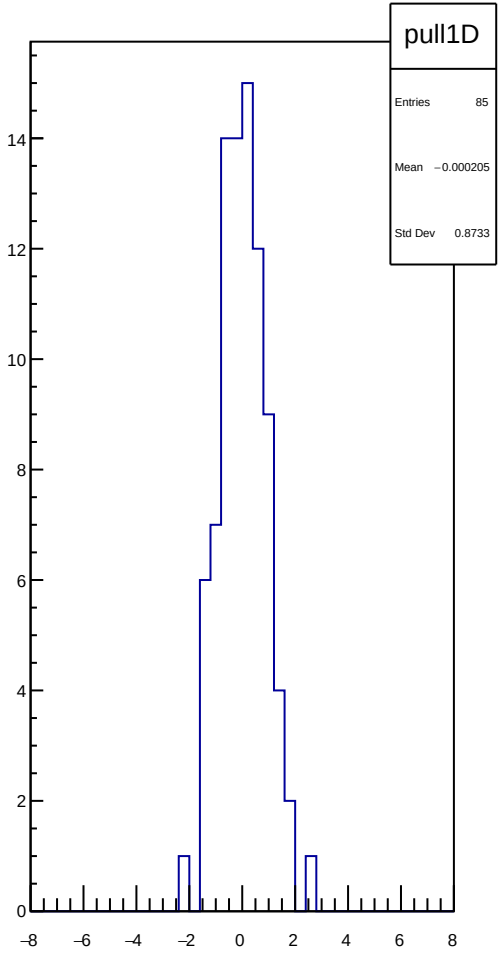

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 1798 / 84
p0 32.21 ± 0.02515
35
34
33
32
31
30
29

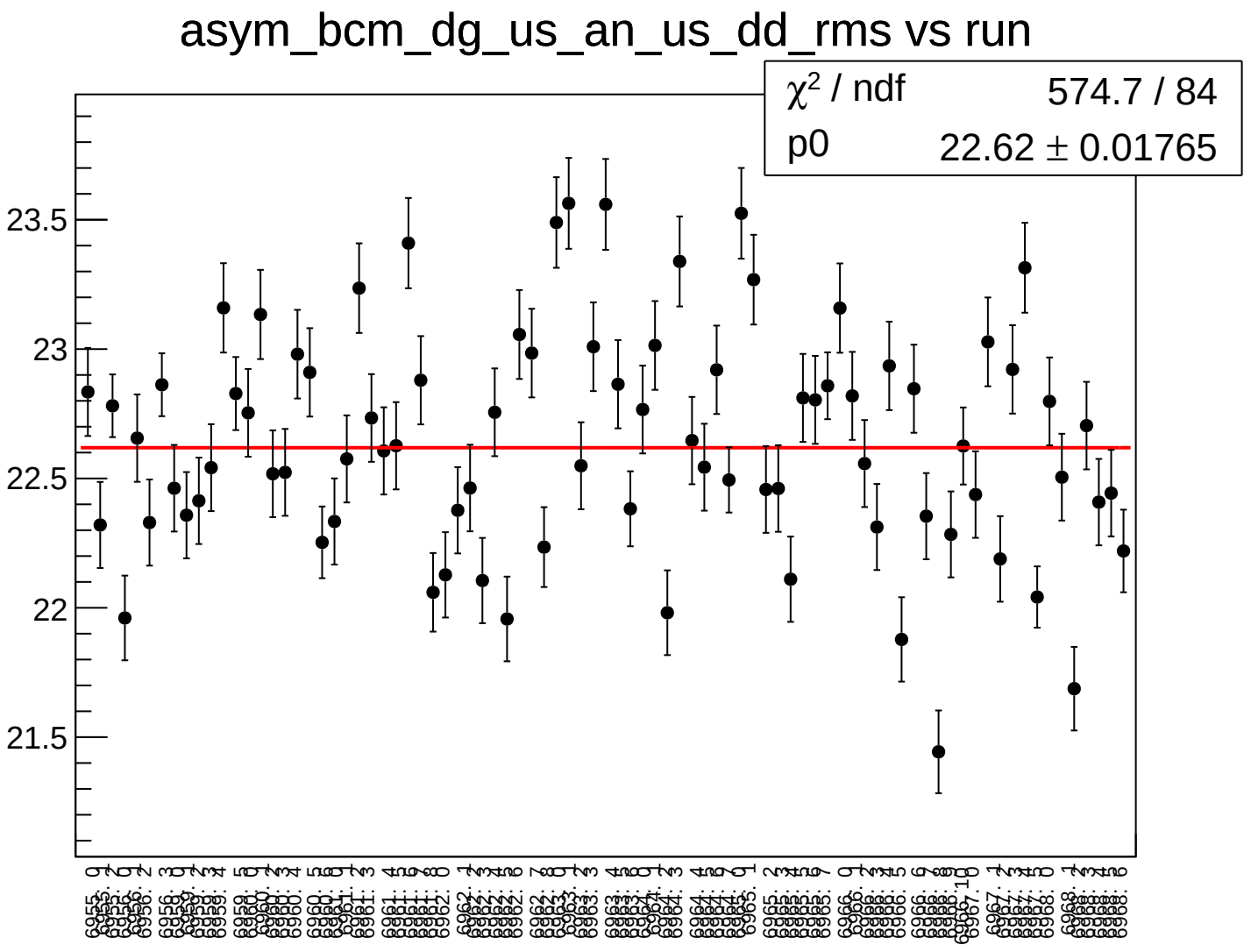

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 22.5 / 84
p0 −157.3 ± 148.5
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −1.376e+04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

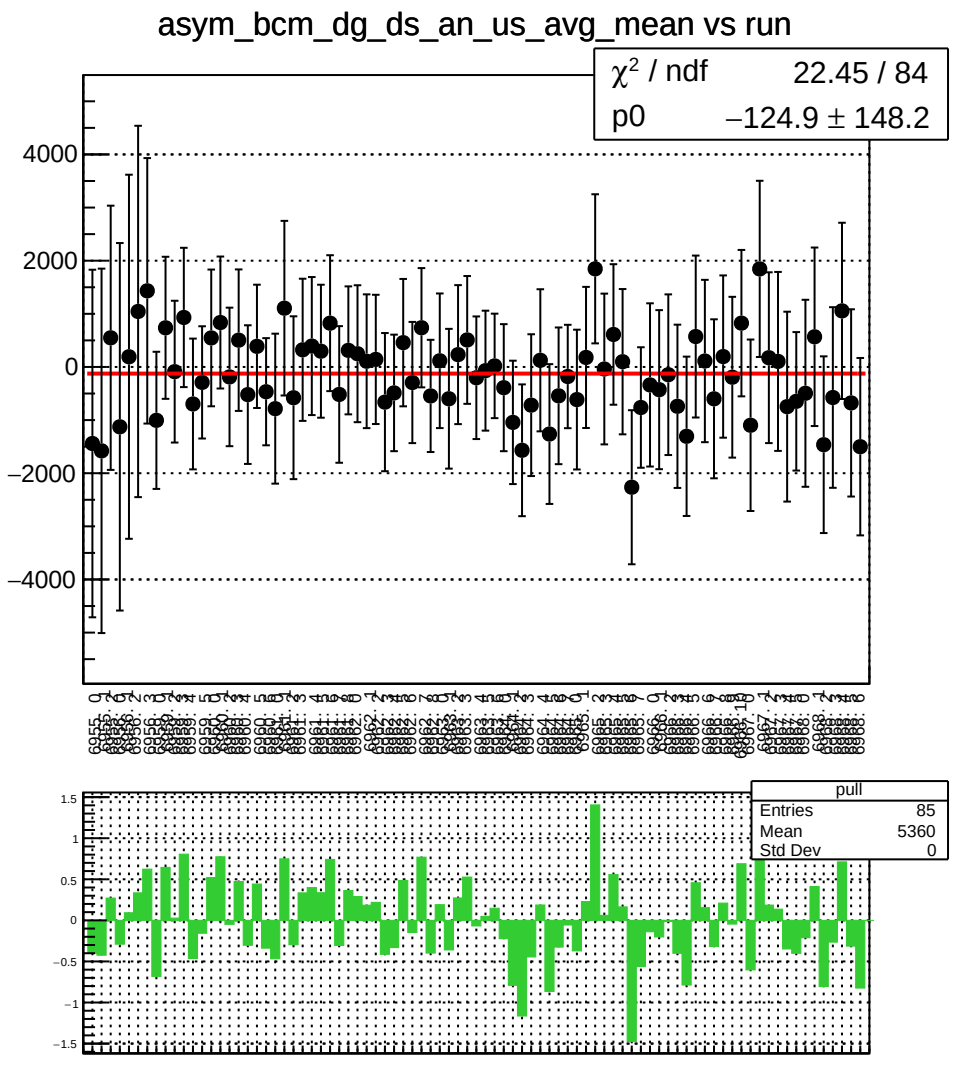

pull1D
Entries 85
Mean 0.0001417
Std Dev 0.5145
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

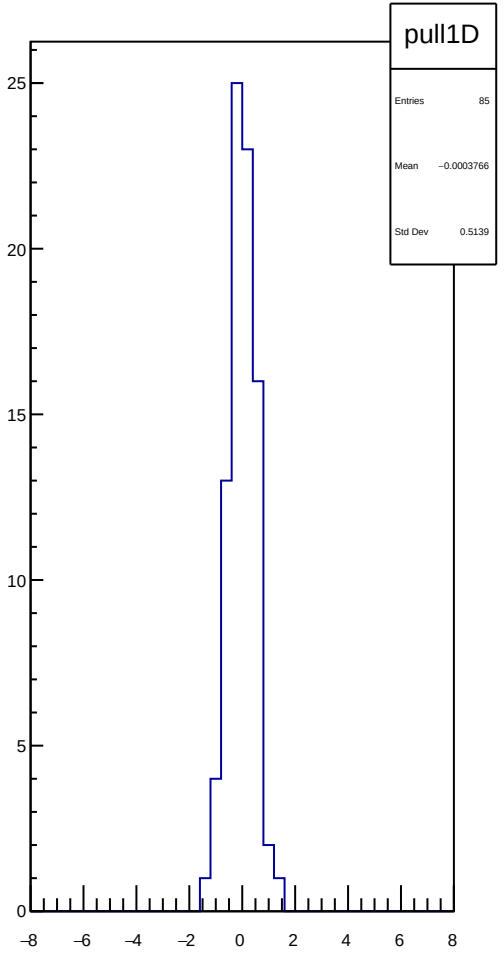

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 8.174e+04 / 84
p0 131.2 ± 0.105
350
300
250
200
150
100

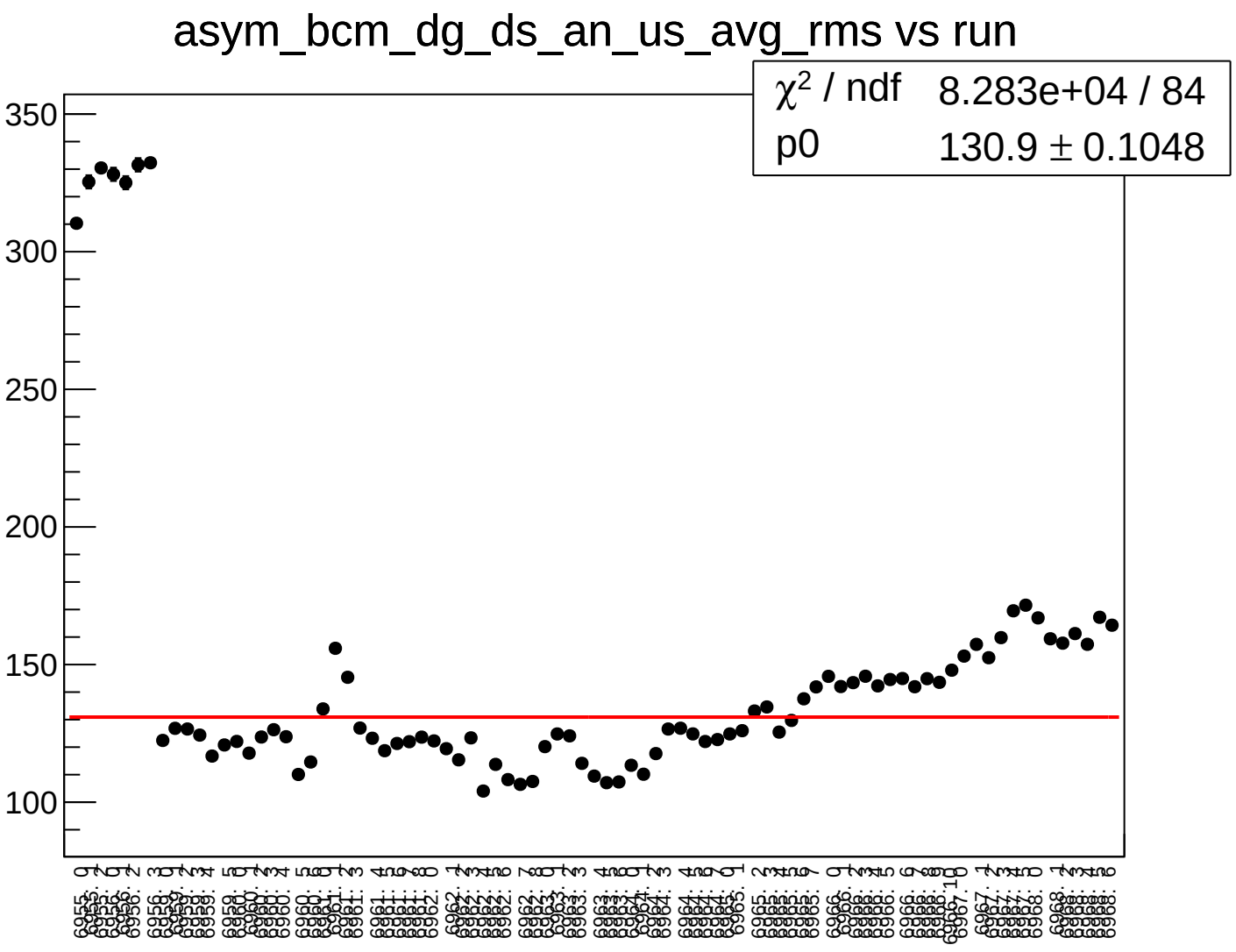

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 64.83 / 84
p0 −10.63 ± 24.96
pull
Entries 85
Mean 1.036e+04
Std Dev 0

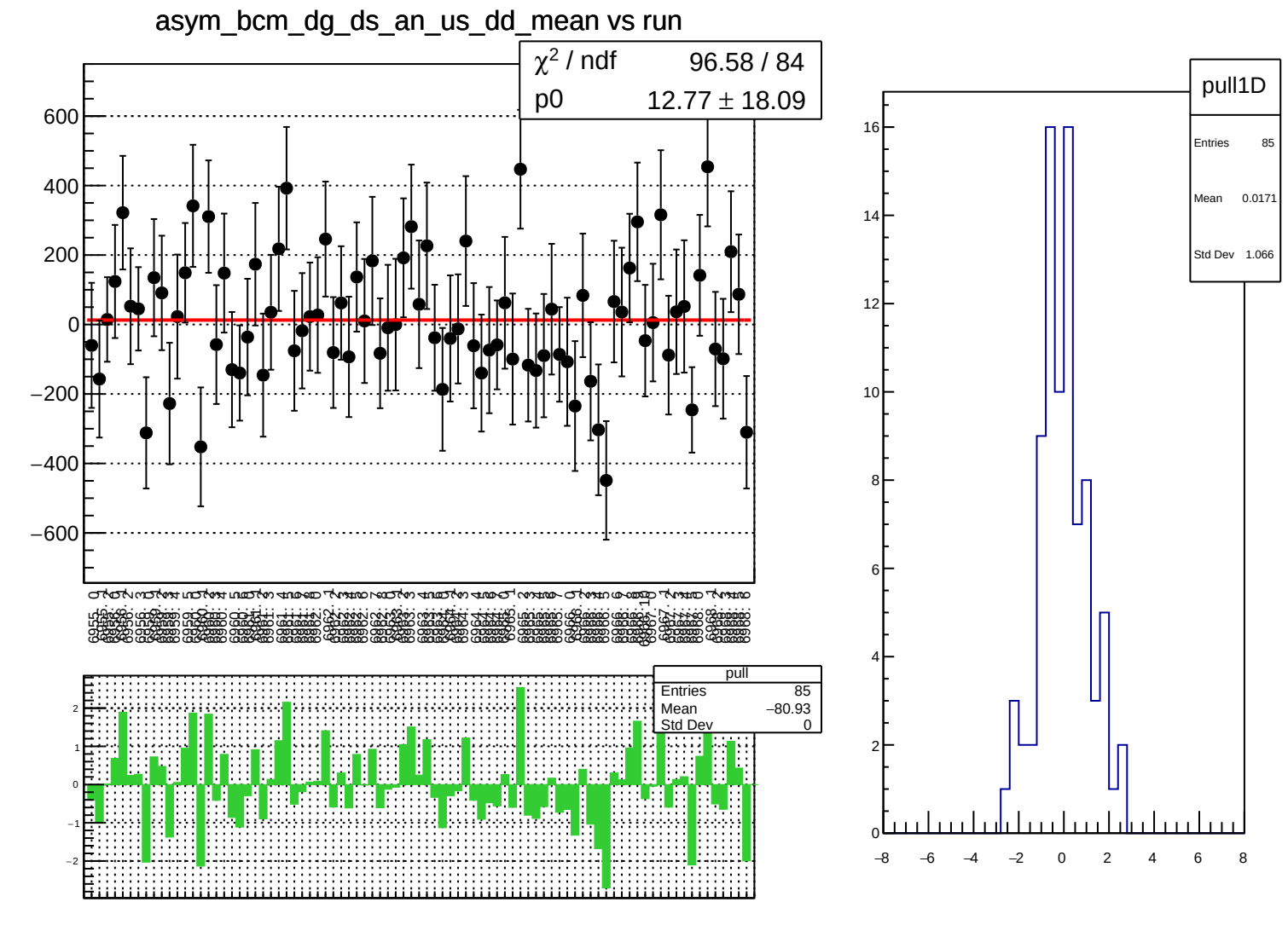

pull1D
Entries 85
Mean −0.000205
Std Dev 0.8733

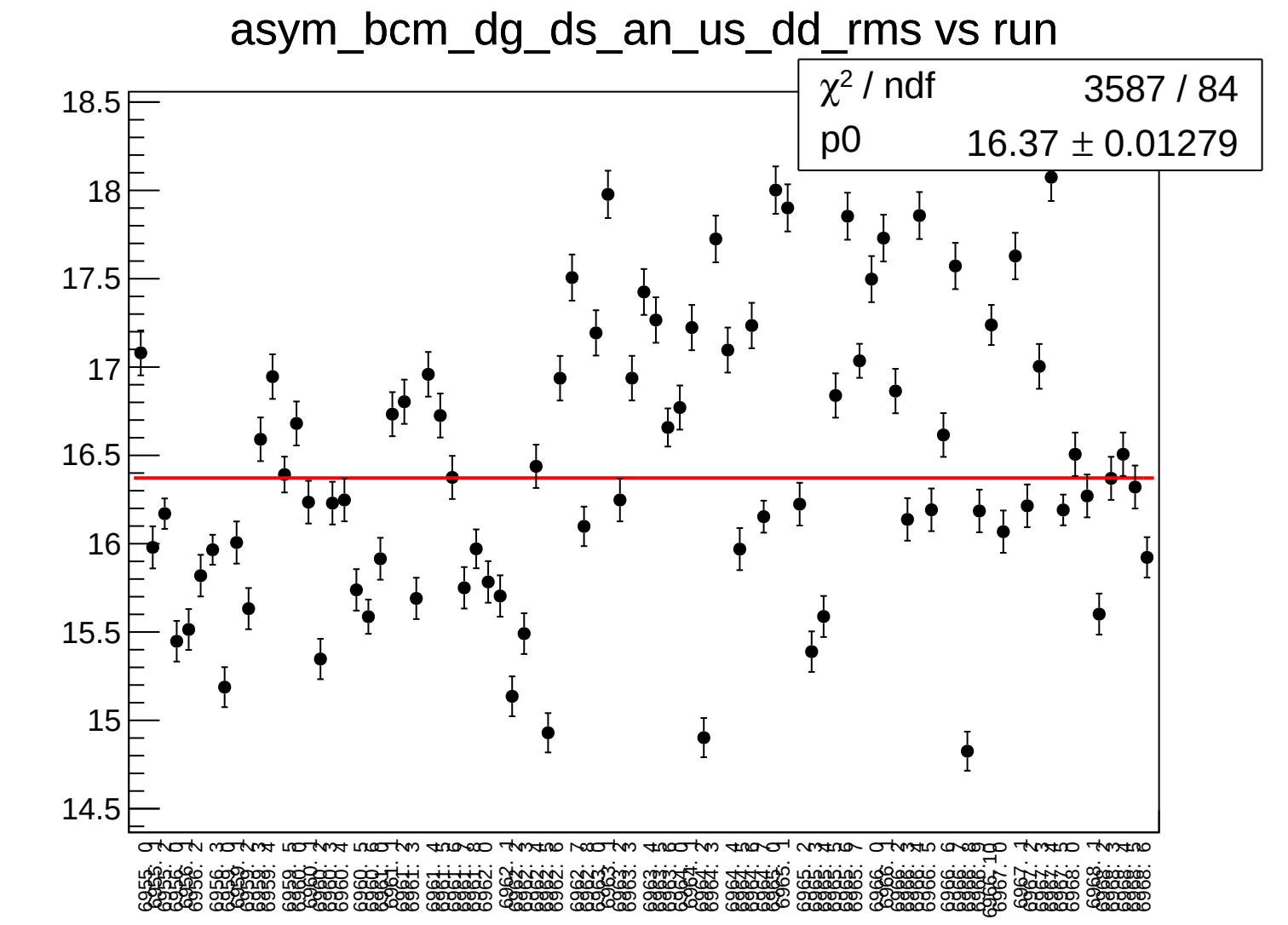

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 574.7 / 84
p0 22.62 ± 0.01765
23.5
23
22.5
22
21.5

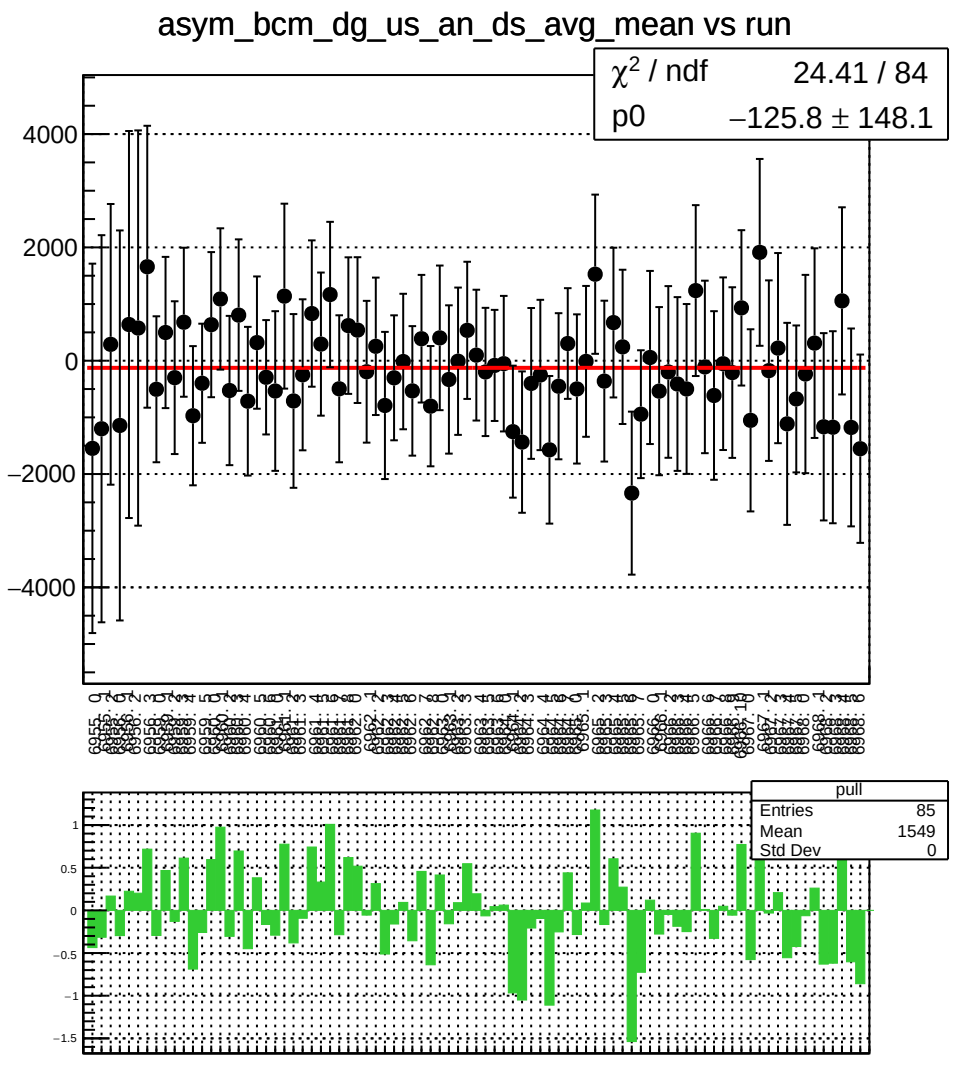

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 22.45 / 84
p0 −124.9 ± 148.2
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 5360
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

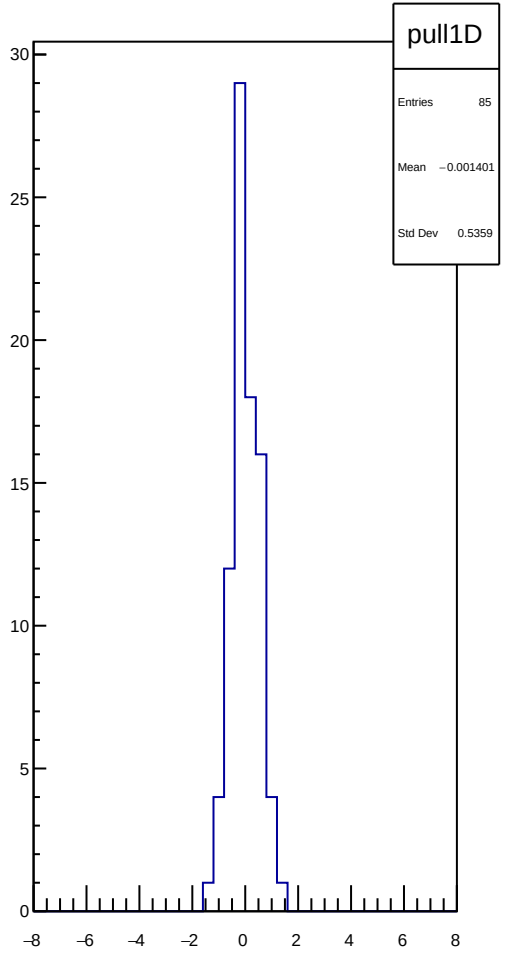

pull1D
Entries 85
Mean −0.0003766
Std Dev 0.5139
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

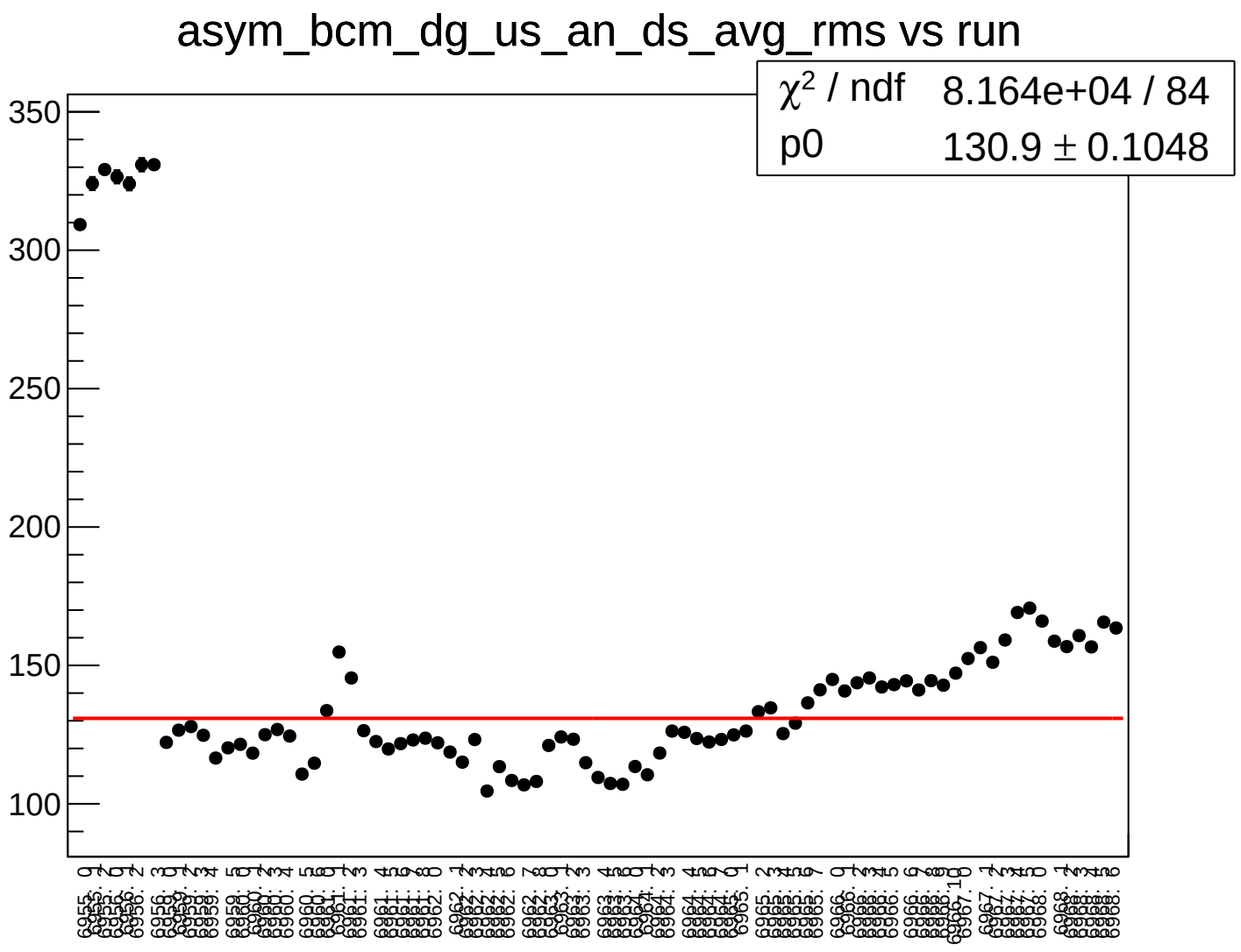

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 8.283e+04 / 84
p0 130.9 ± 0.1048
350
300
250
200
150
100

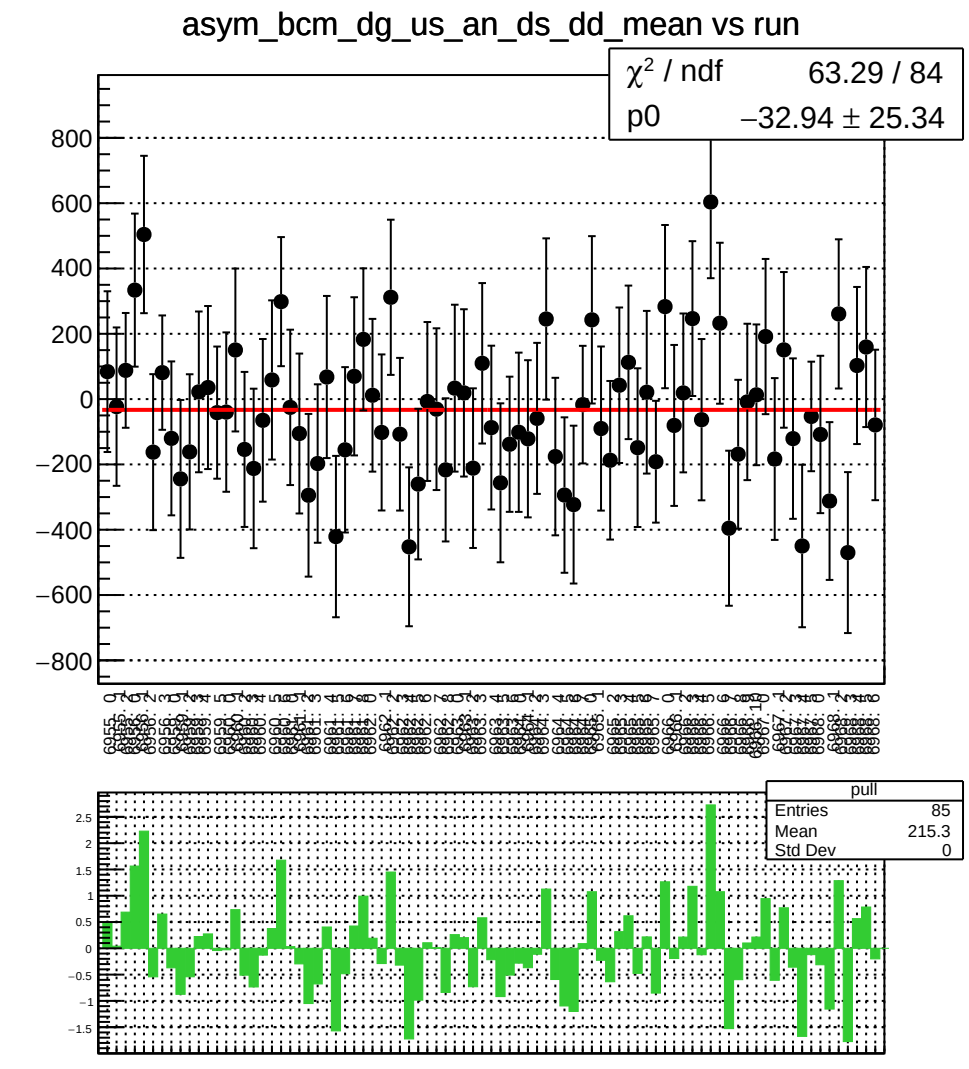

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 96.58 / 84
p0 12.77 ± 18.09
600
400
200
0
−200
−400
−600
pull
Entries 85
Mean −80.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.0171
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

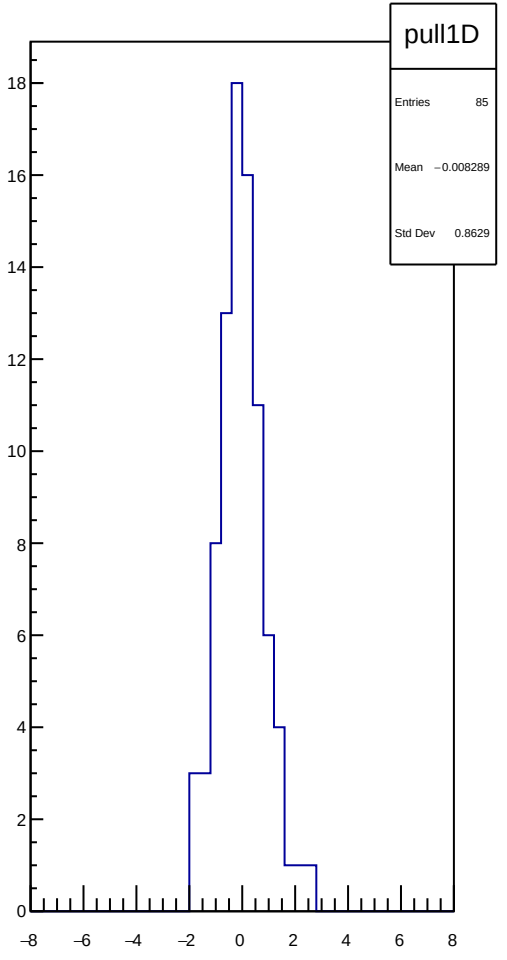

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3587 / 84
p0 16.37 ± 0.01279
18.5
18
17.5
17
16.5
16
15.5
15
14.5

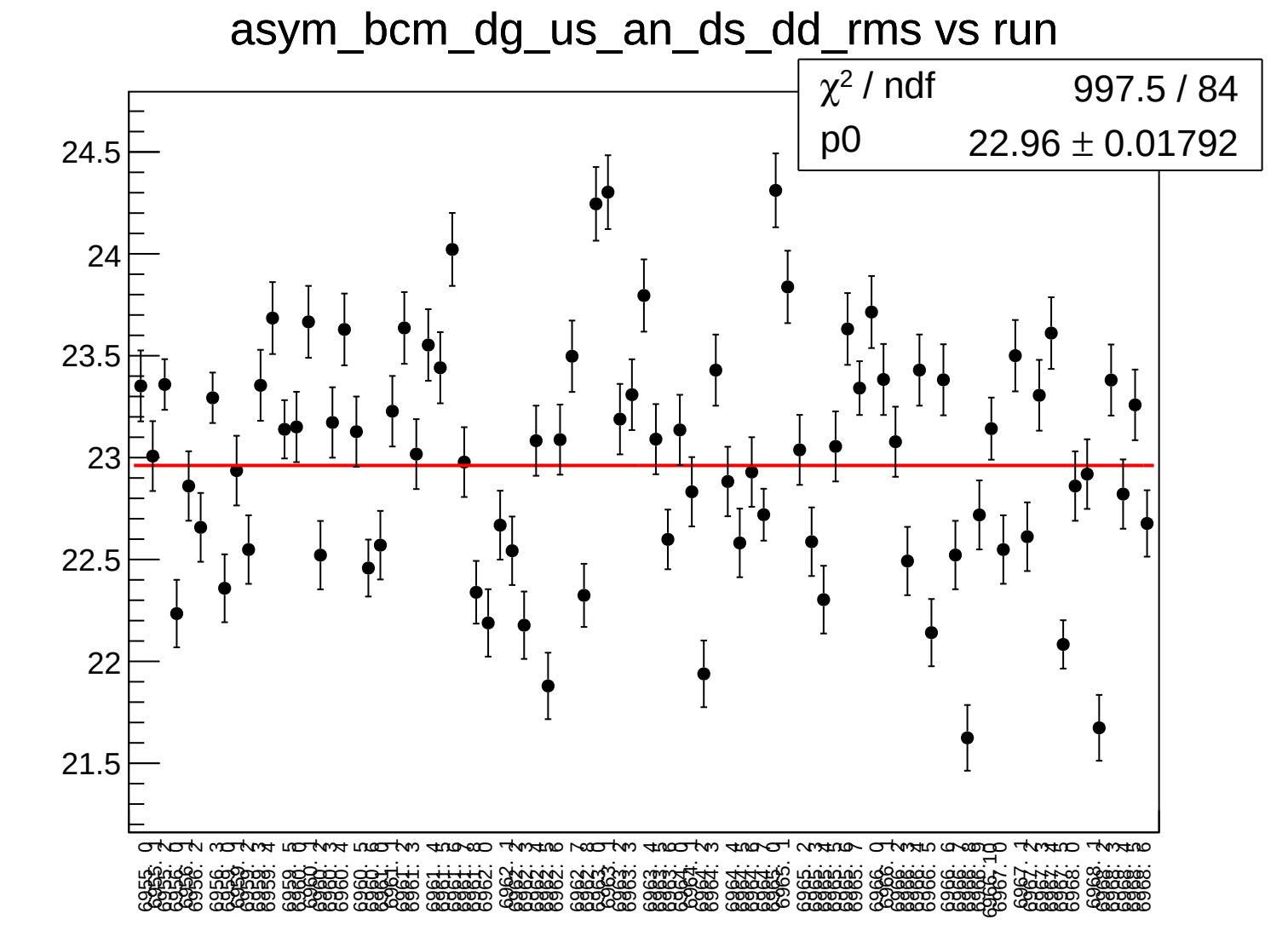

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 24.41 / 84
p0 −125.8 ± 148.1
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 1549
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

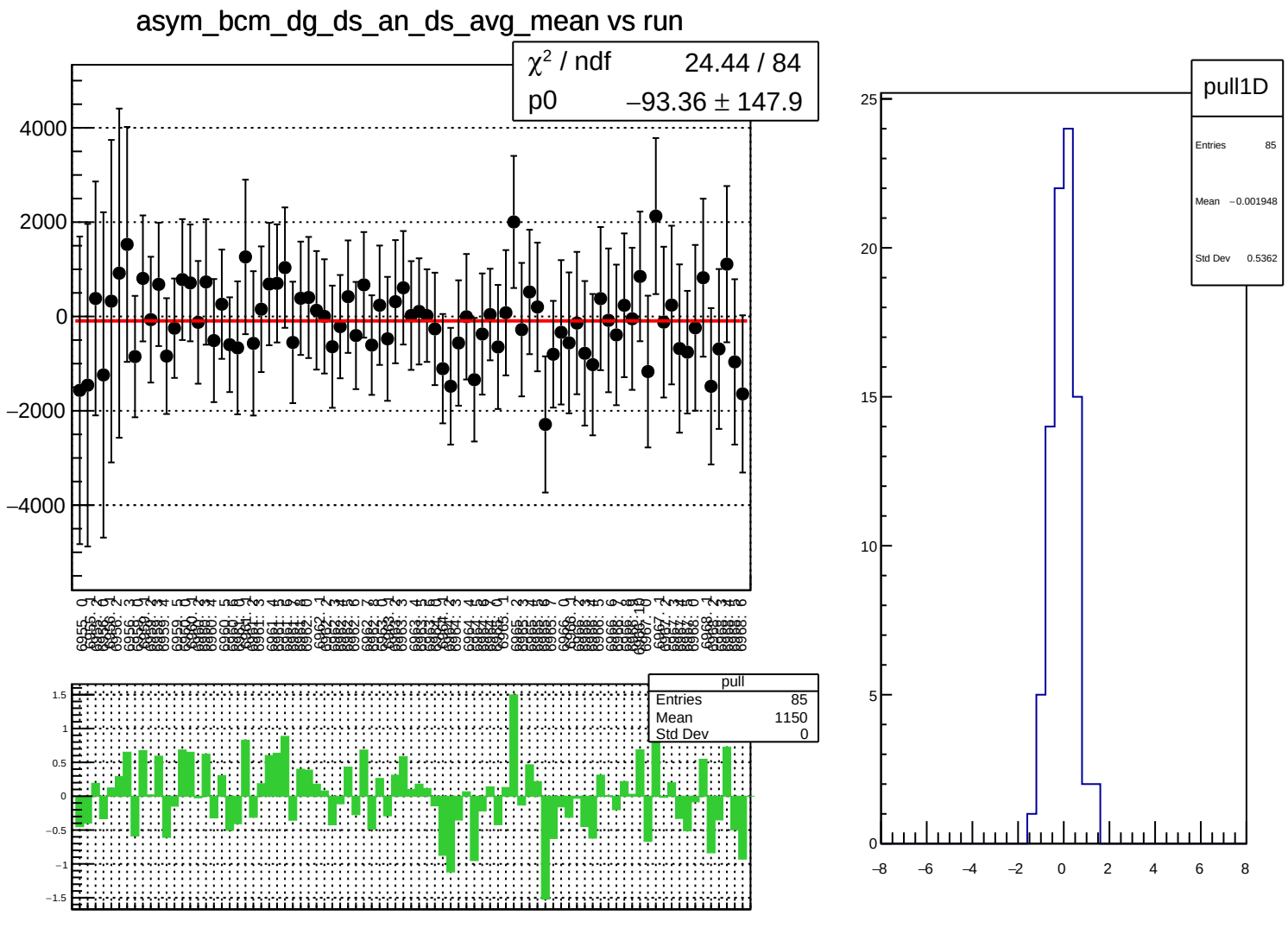

pull1D
Entries 85
Mean −0.001401
Std Dev 0.5359
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

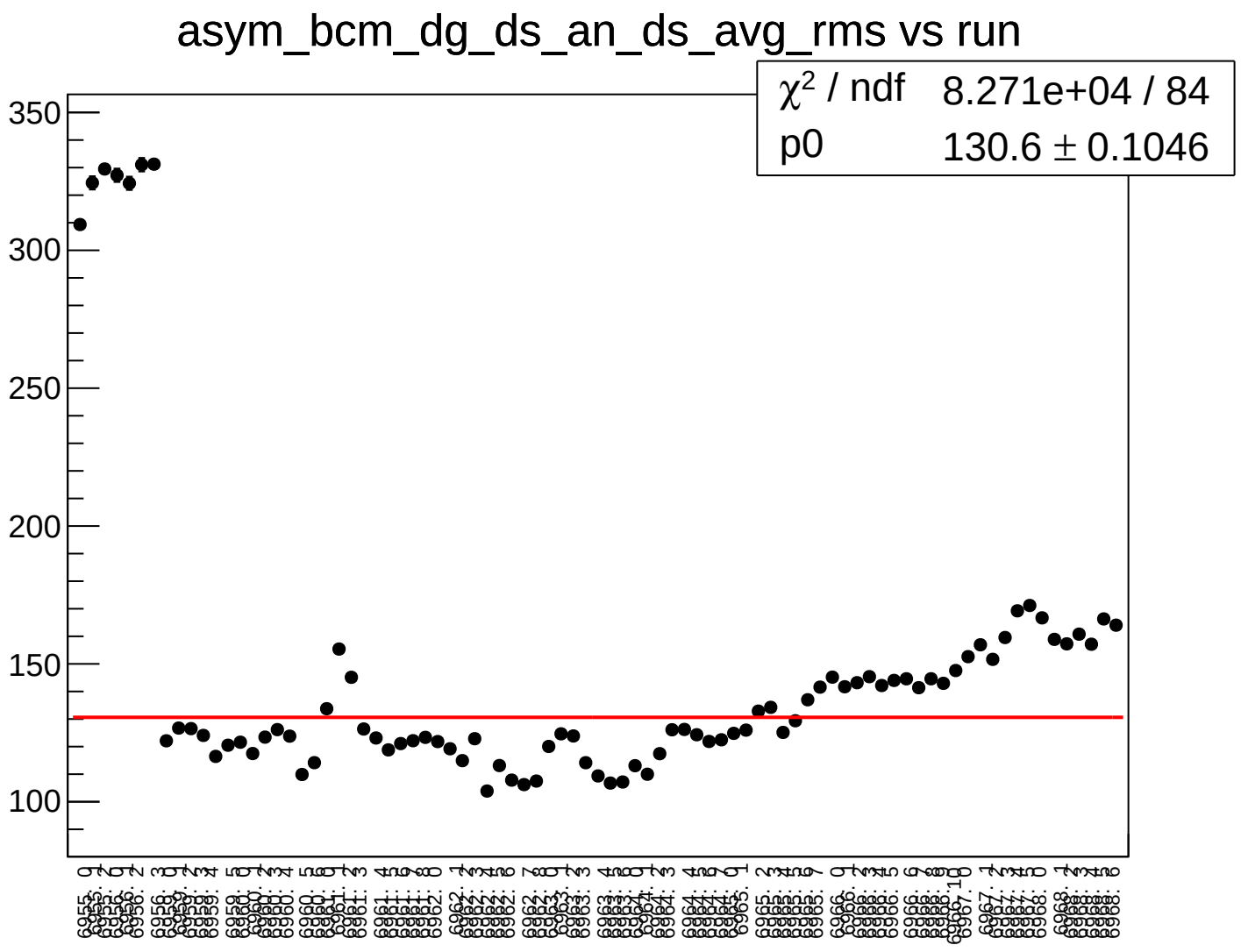

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 8.164e+04 / 84
p0 130.9 ± 0.1048
350
300
250
200
150
100

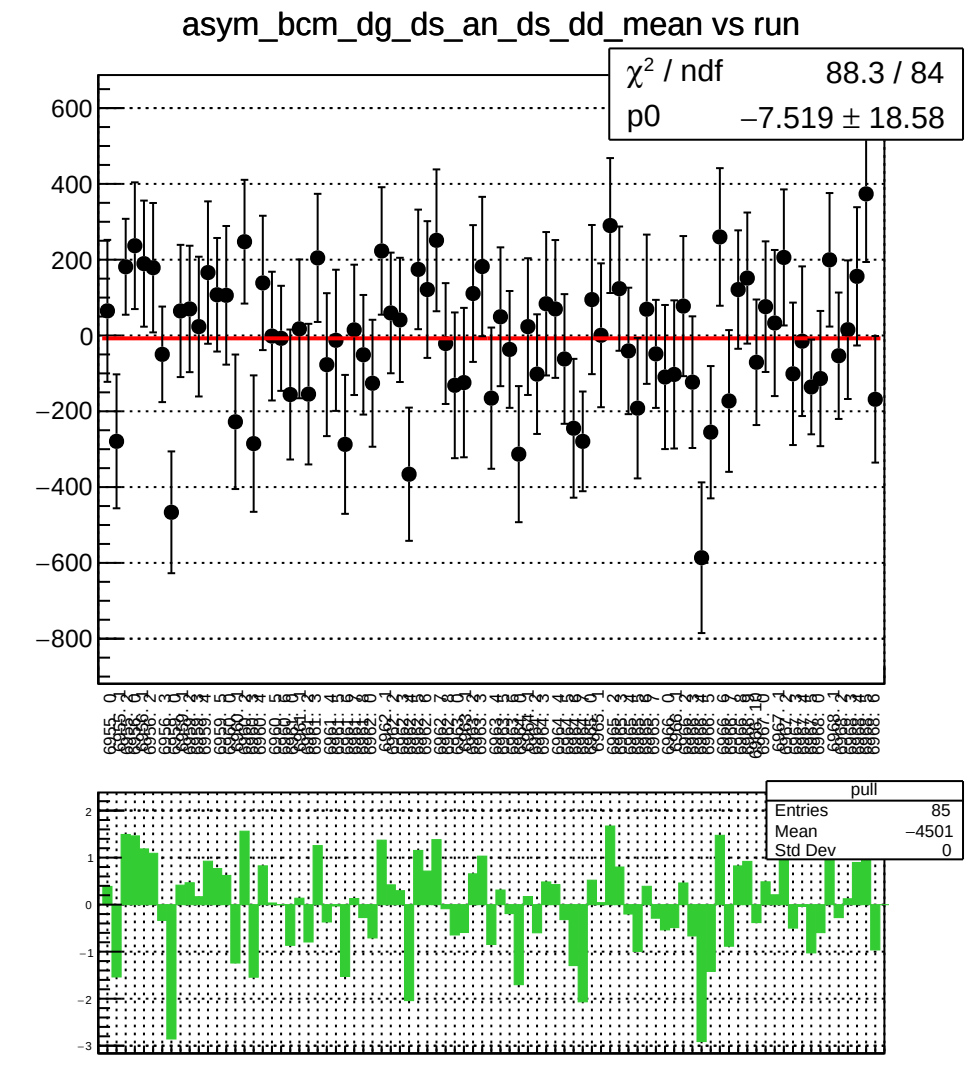

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 63.29 / 84
p0 −32.94 ± 25.34
pull
Entries 85
Mean 215.3
Std Dev 0

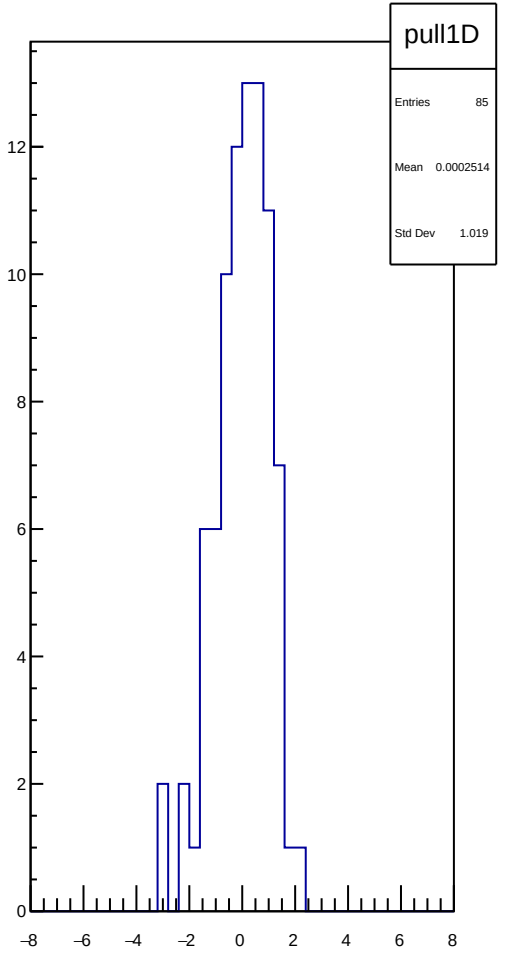

pull1D
Entries 85
Mean −0.008289
Std Dev 0.8629

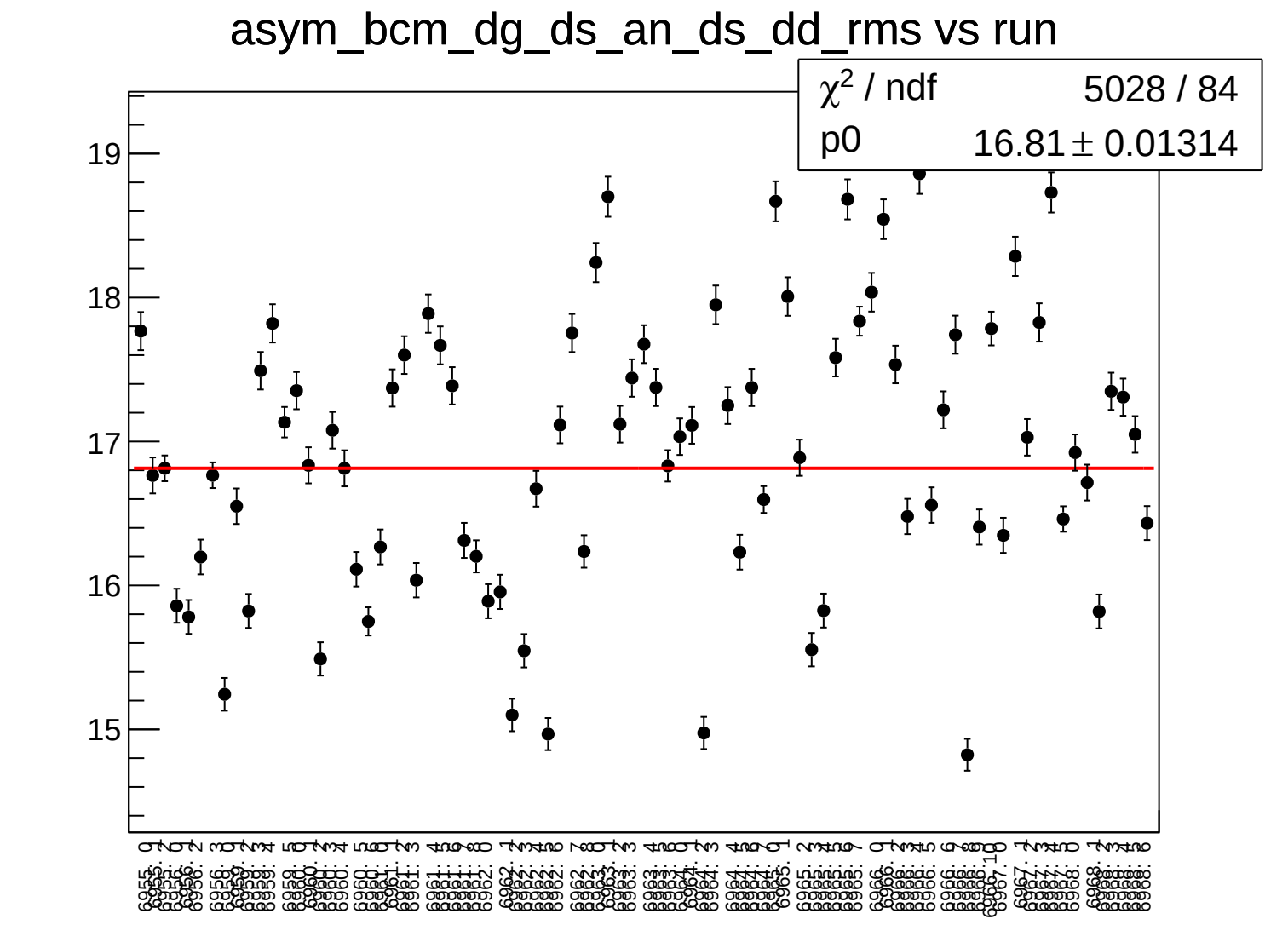

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 997.5 / 84
p0 22.96 ± 0.01792
24.5
24
23.5
23
22.5
22
21.5

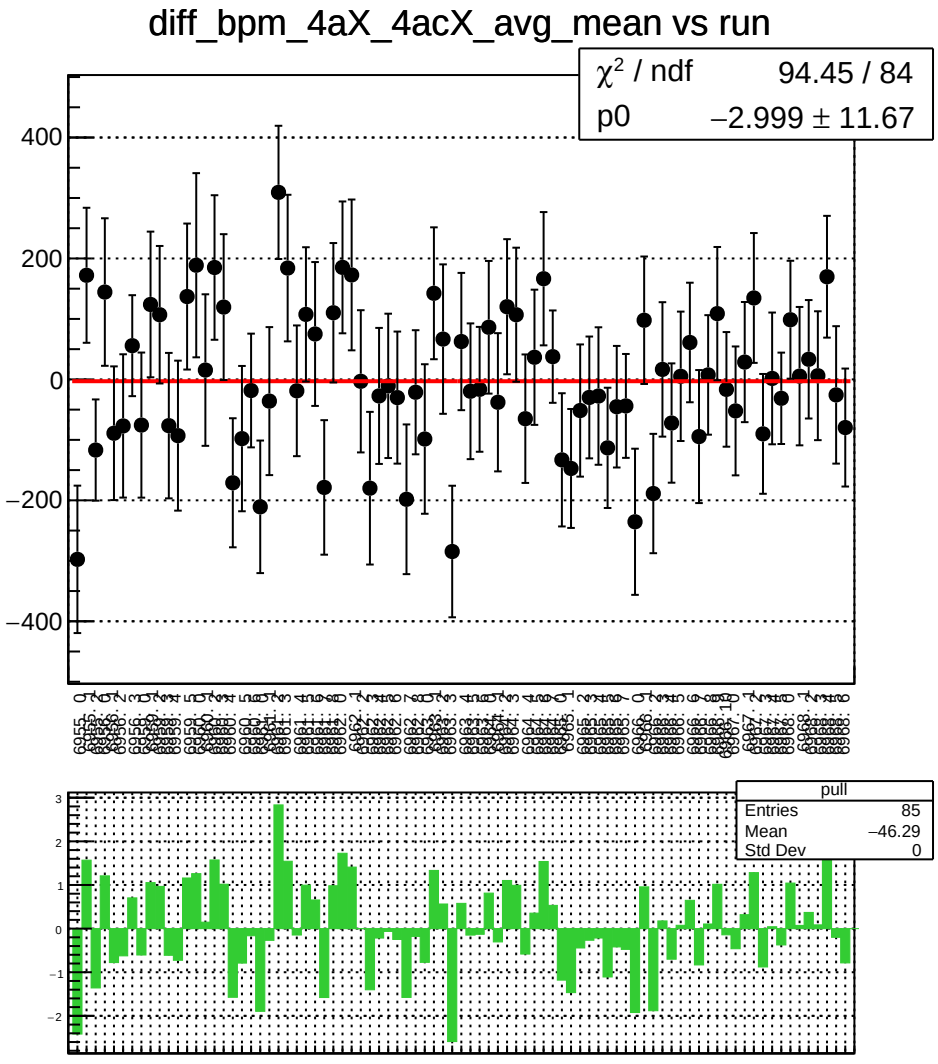

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 24.44 / 84
p0 −93.36 ± 147.9
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 1150
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.001948
Std Dev 0.5362
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

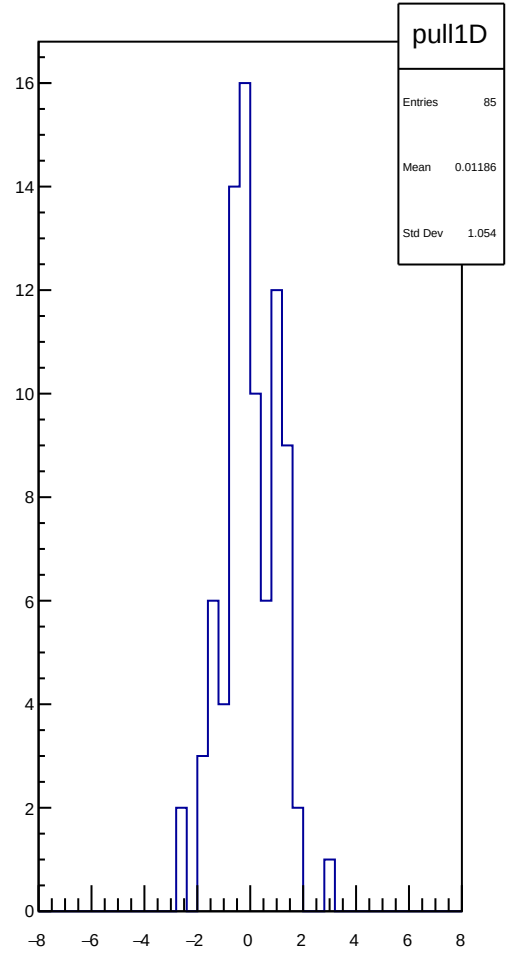

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 8.271e+04 / 84
p0 130.6 ± 0.1046
350
300
250
200
150
100

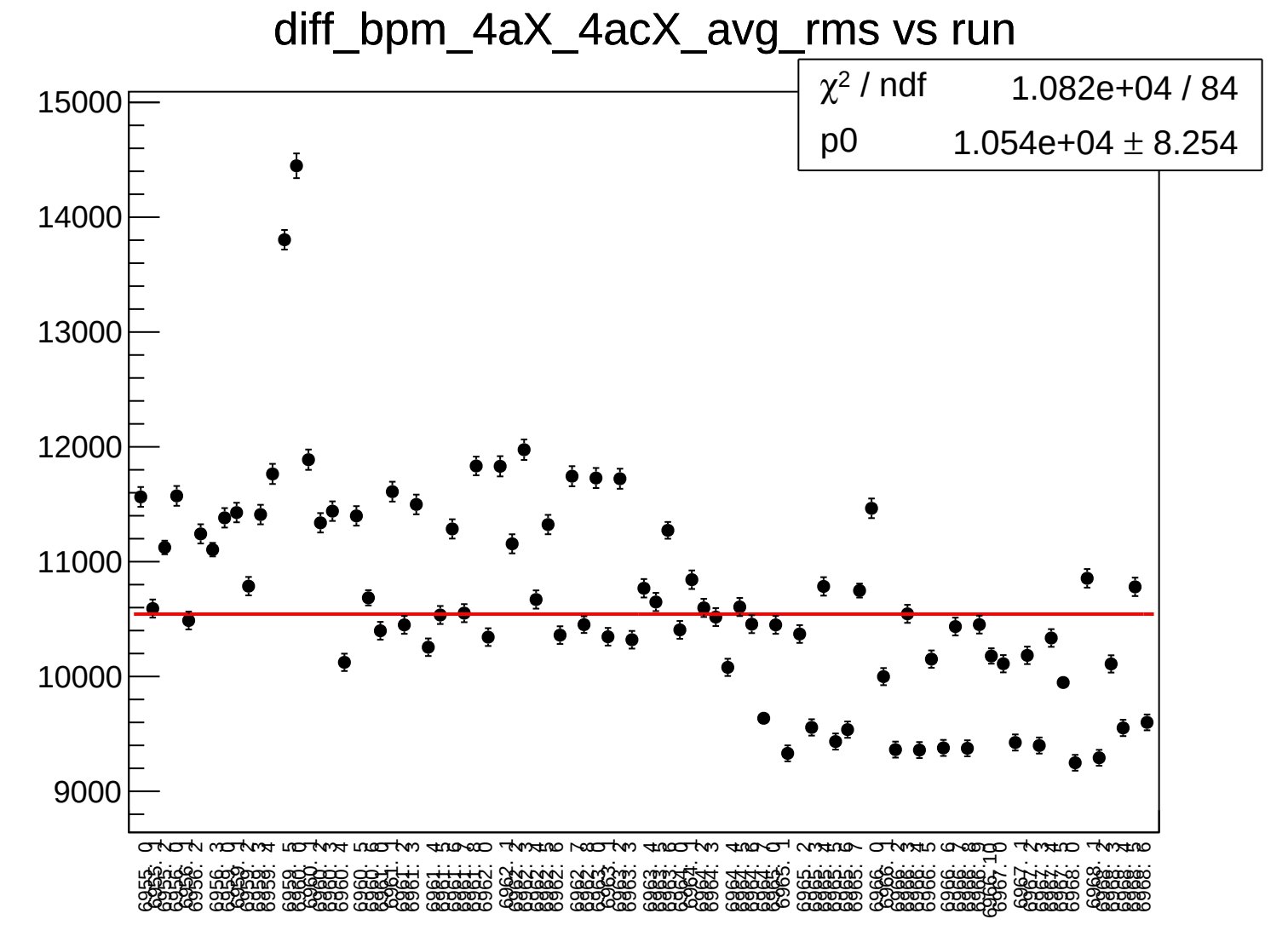

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 88.3 / 84
p0 −7.519 ± 18.58
600
400
200
0
−200
−400
−600
−800
pull
Entries 85
Mean −4501
Std Dev 0
2
1
0
−1
−2
−3

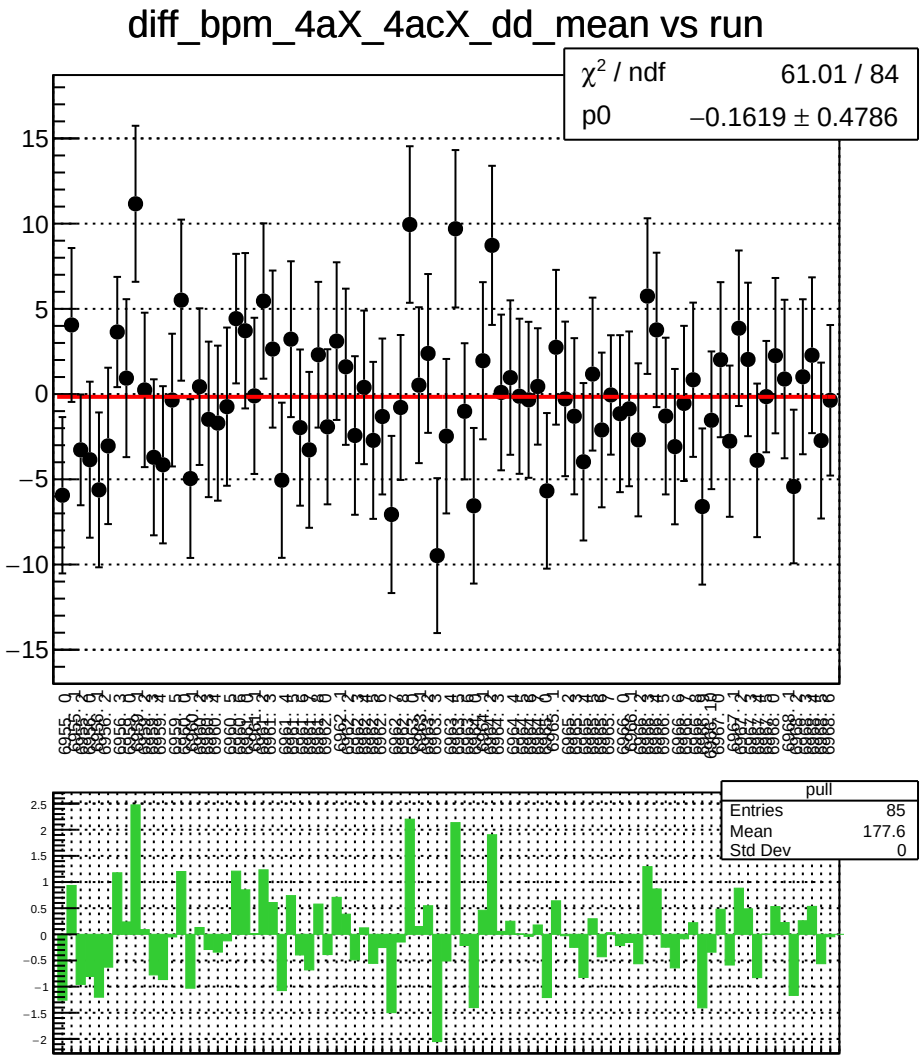

pull1D
Entries 85
Mean 0.0002514
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

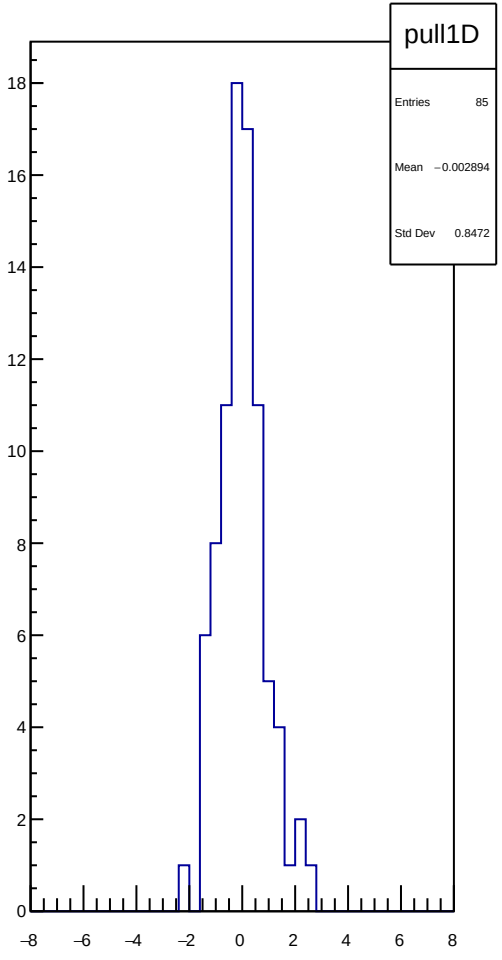

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 5028 / 84
p0 16.81 ± 0.01314
19
18
17
16
15

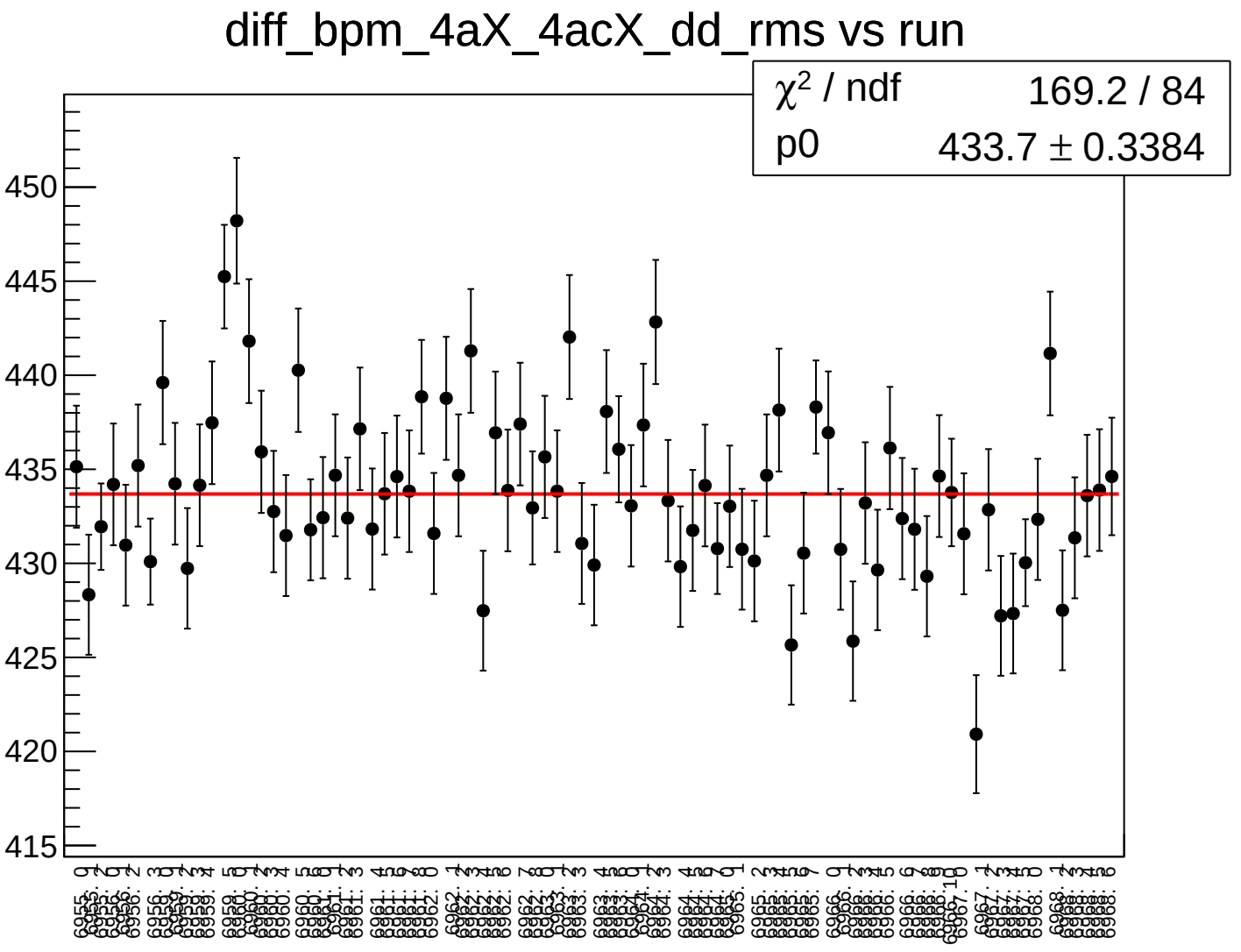

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 94.45 / 84
p0 −2.999 ± 11.67
400
200
0
−200
−400
pull
Entries 85
Mean −46.29
Std Dev 0
3
2
1
0
−1
−2

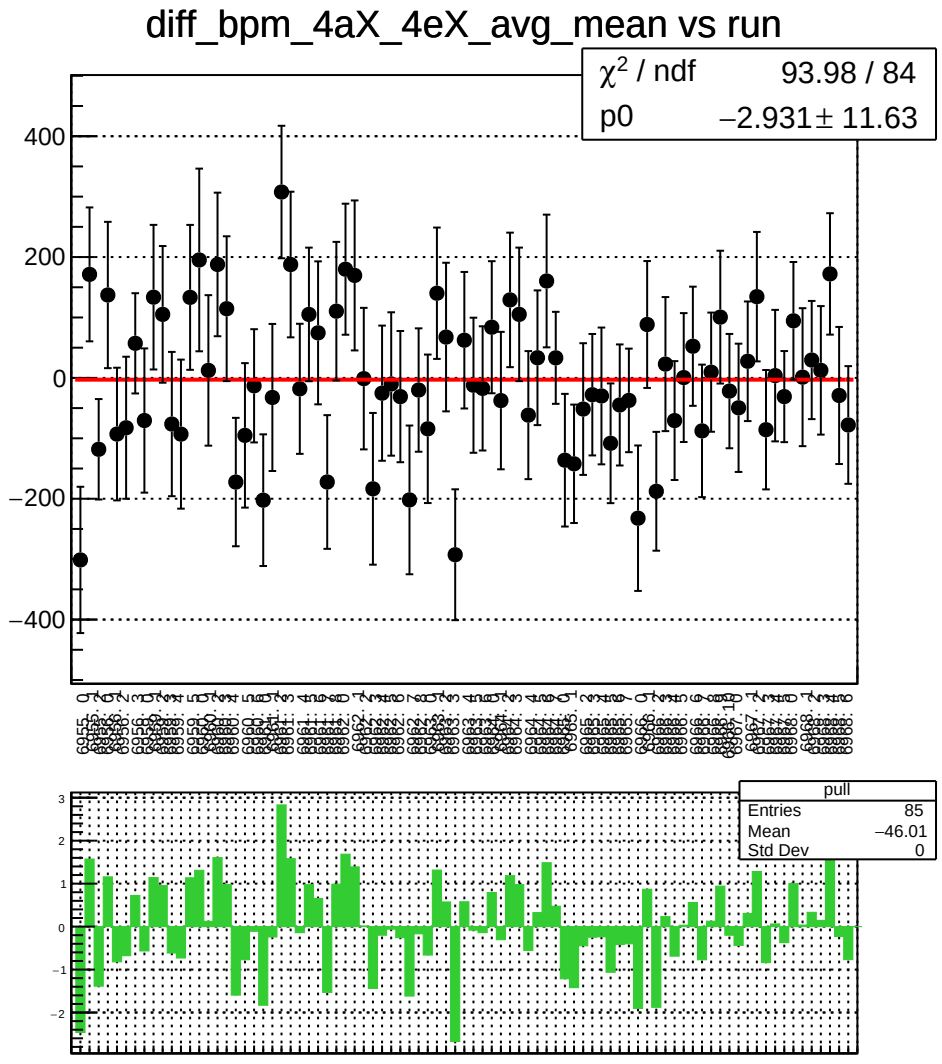

pull1D
Entries 85
Mean 0.01186
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

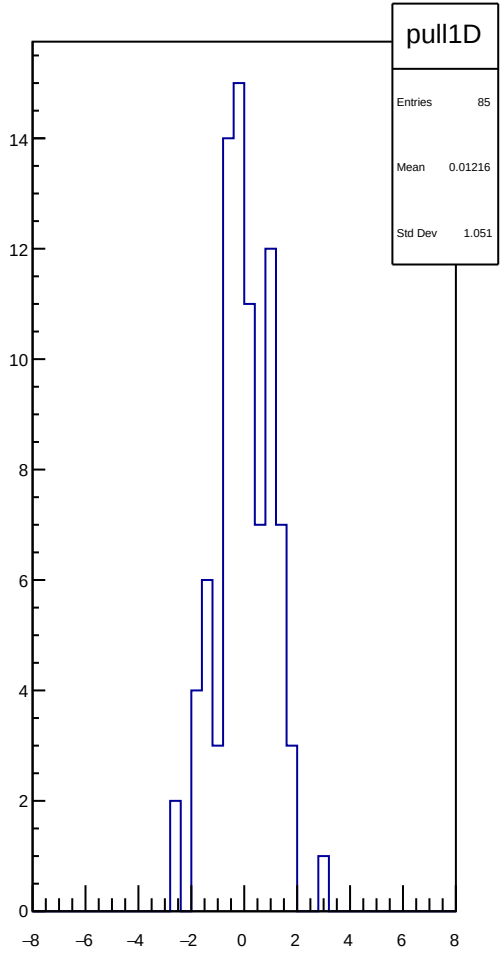

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1.082e+04 / 84
p0 1.054e+04 ± 8.254
15000
14000
13000
12000
11000
10000
9000

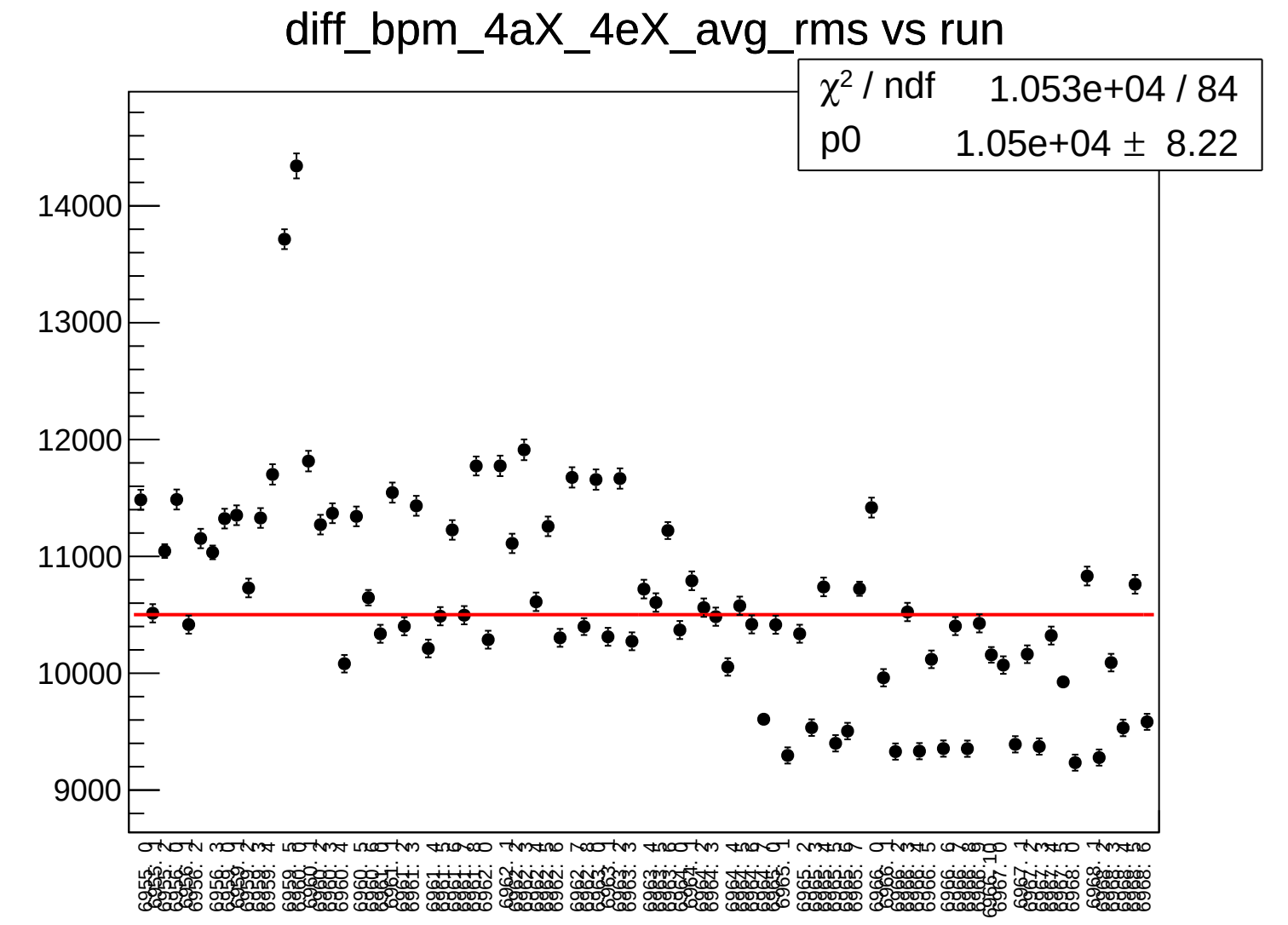

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 61.01 / 84
p0 −0.1619 ± 0.4786
pull
Entries 85
Mean 177.6
Std Dev 0

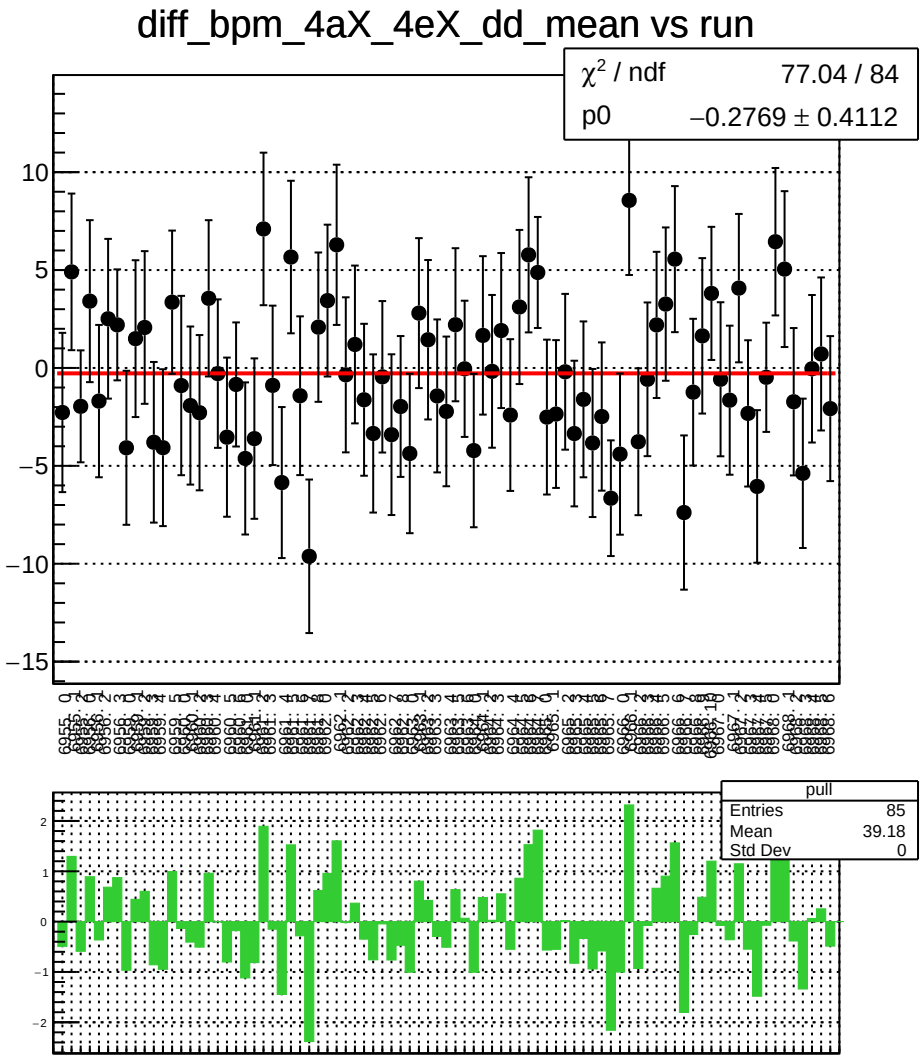

pull1D
Entries 85
Mean −0.002894
Std Dev 0.8472

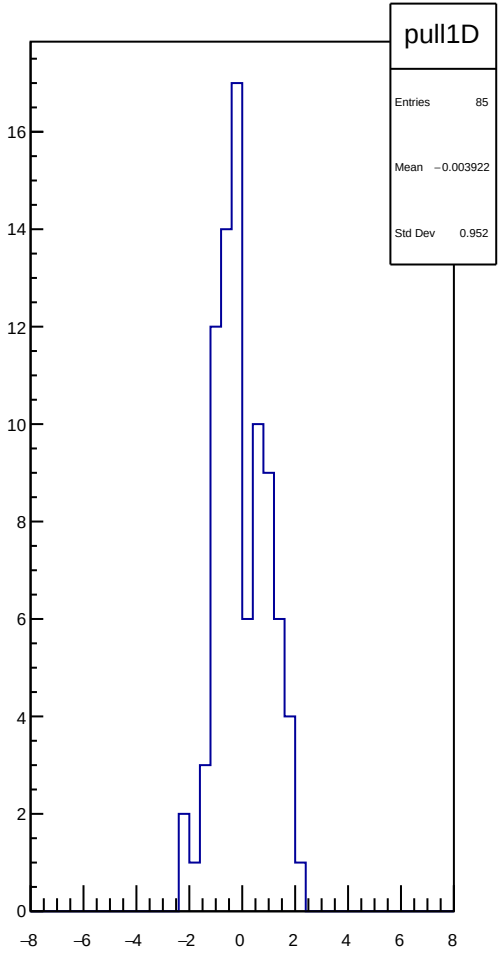

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 169.2 / 84
p0 433.7 ± 0.3384
450
445
440
435
430
425
420
415

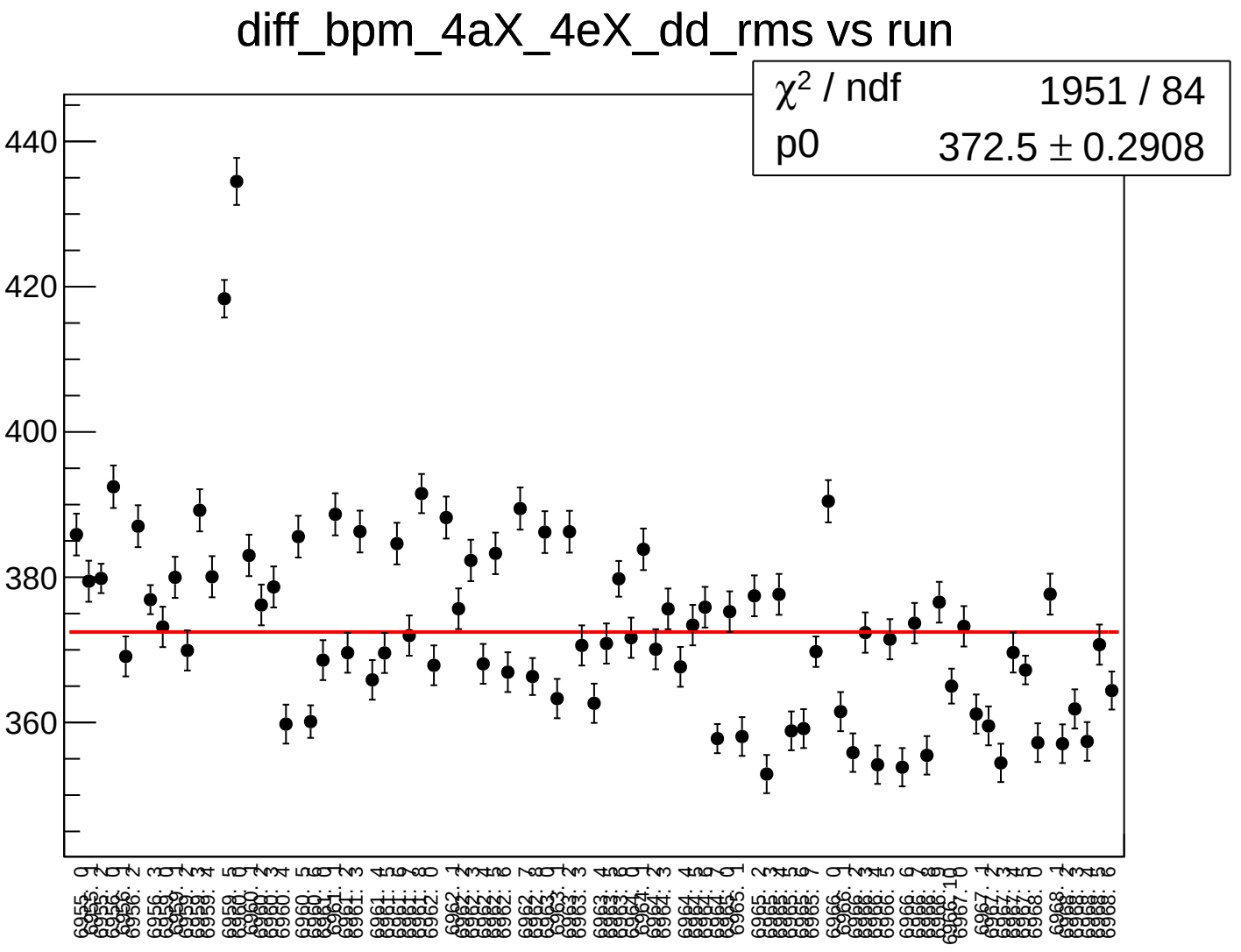

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 93.98 / 84
p0 −2.931± 11.63
400
200
0
−200
−400
pull
Entries 85
Mean −46.01
Std Dev 0
3
2
1
0
−1
−2

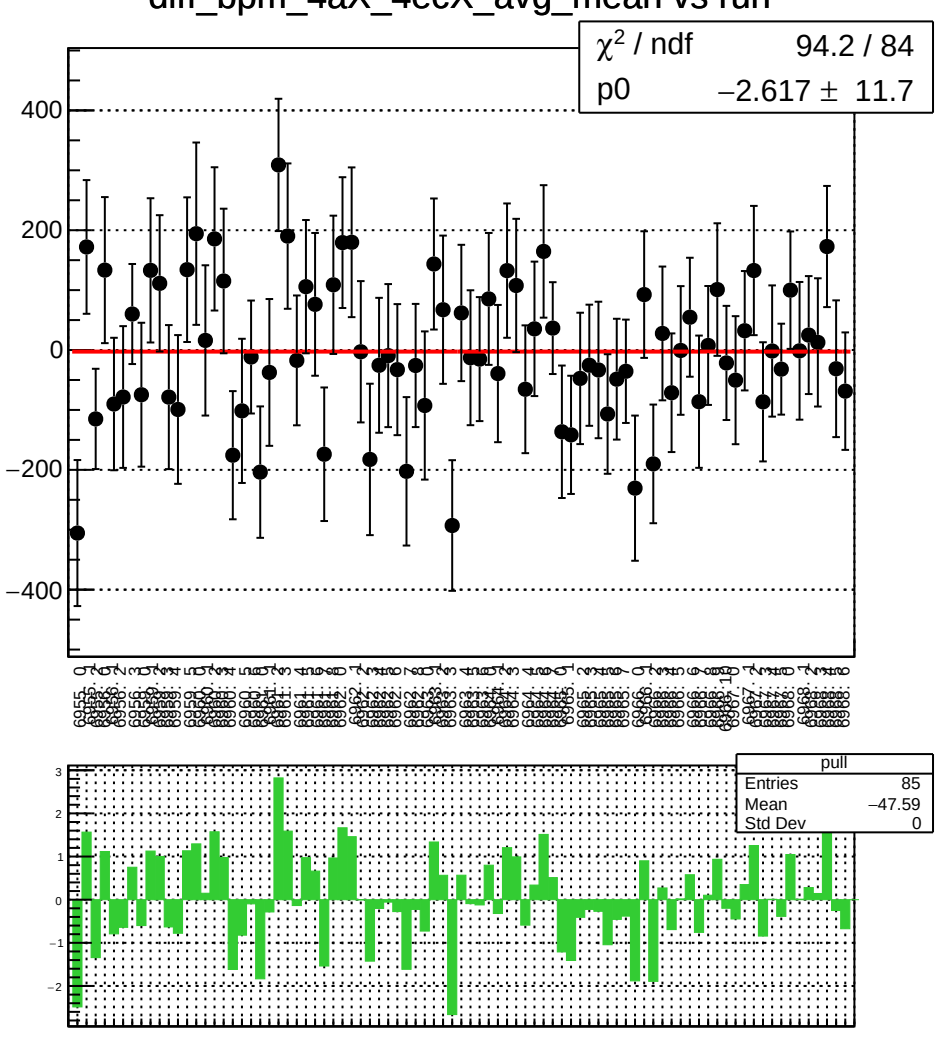

pull1D
Entries 85
Mean 0.01216
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

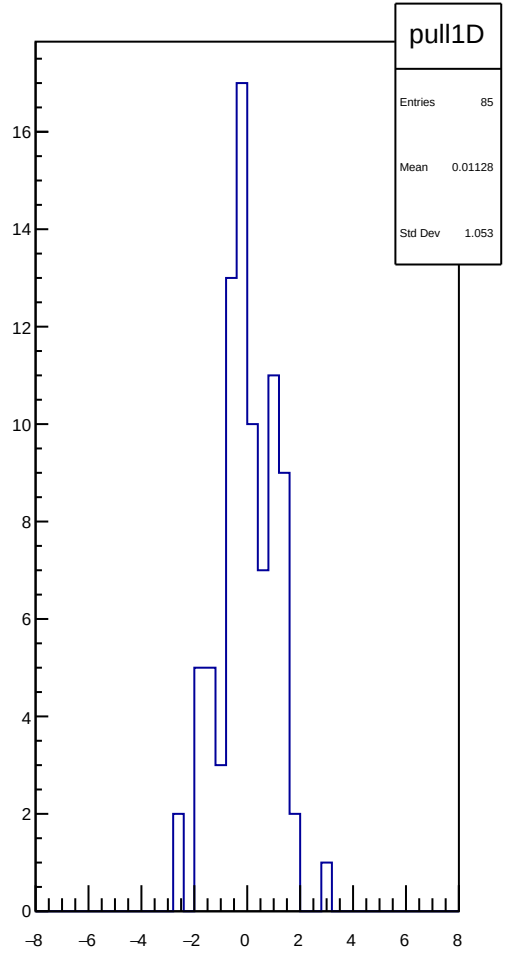

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.053e+04 / 84
p0 1.05e+04 ± 8.22
14000
13000
12000
11000
10000
9000

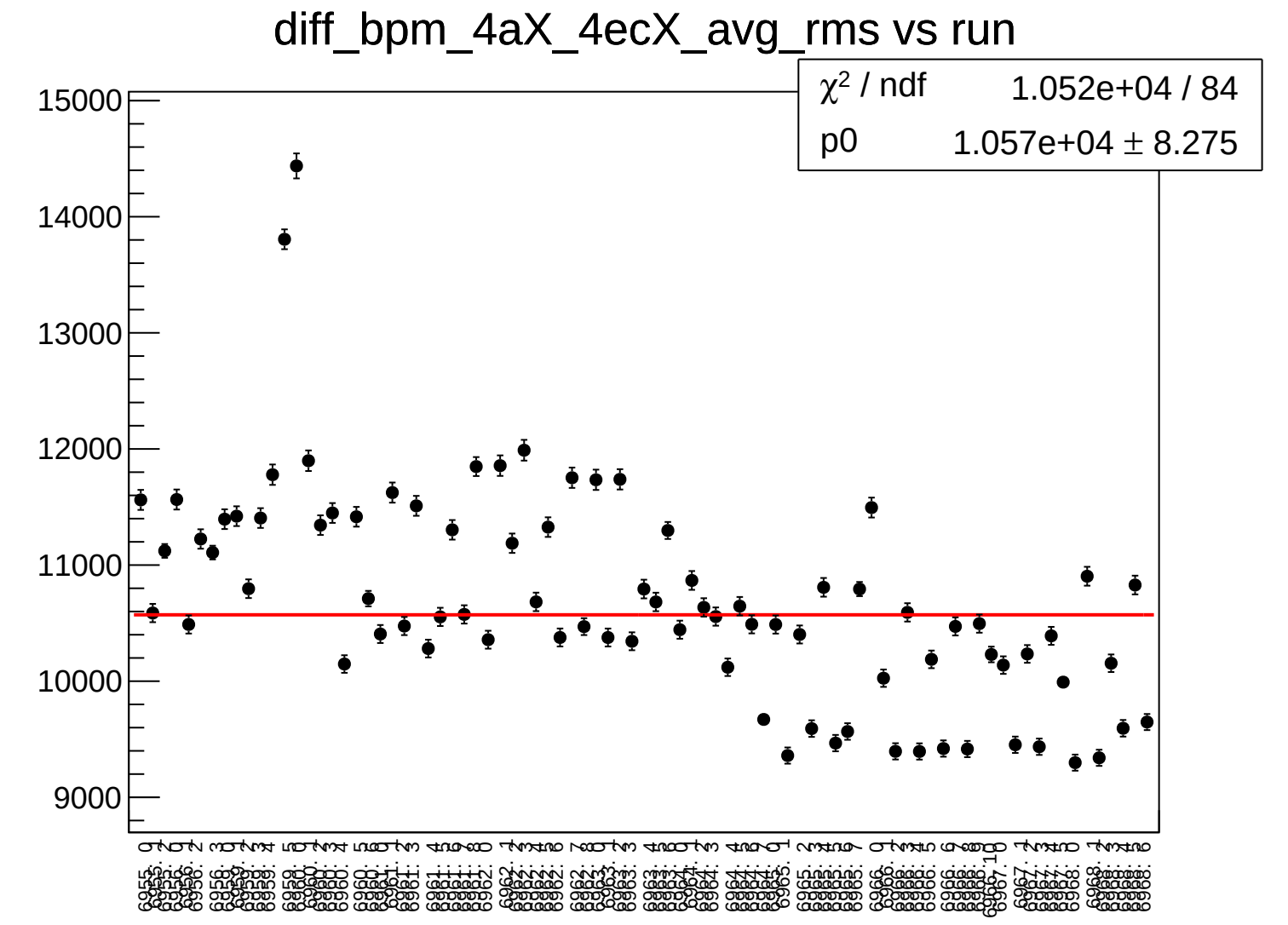

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 77.04 / 84
p0 −0.2769 ± 0.4112
pull
Entries 85
Mean 39.18
Std Dev 0

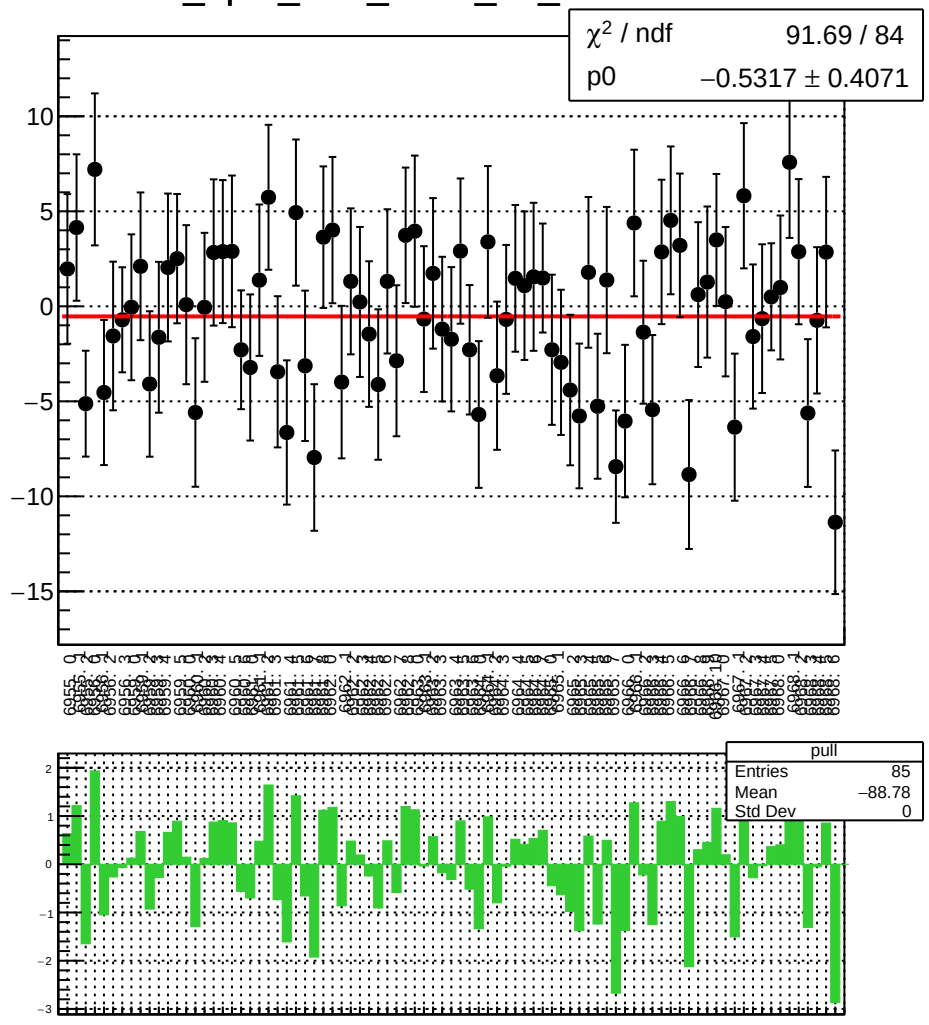

pull1D
Entries 85
Mean −0.003922
Std Dev 0.952

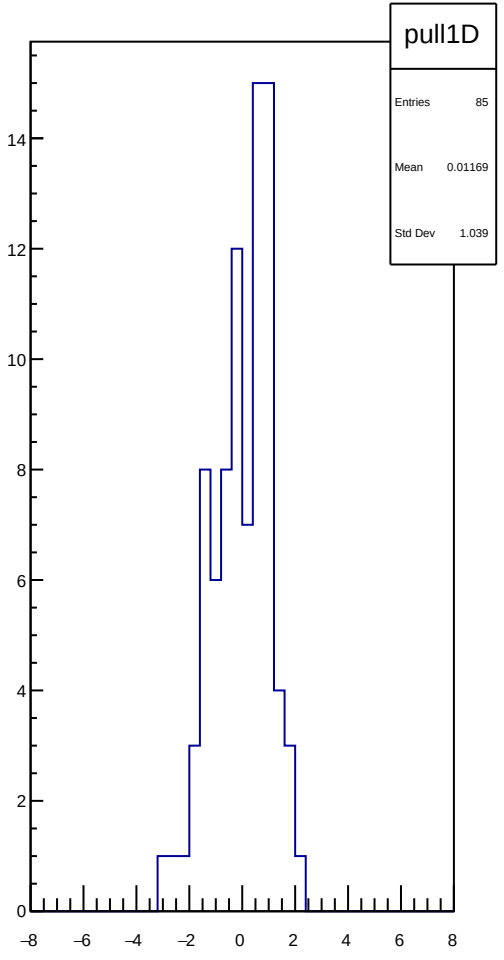

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1951 / 84
p0 372.5 ± 0.2908
440
420
400
380
360

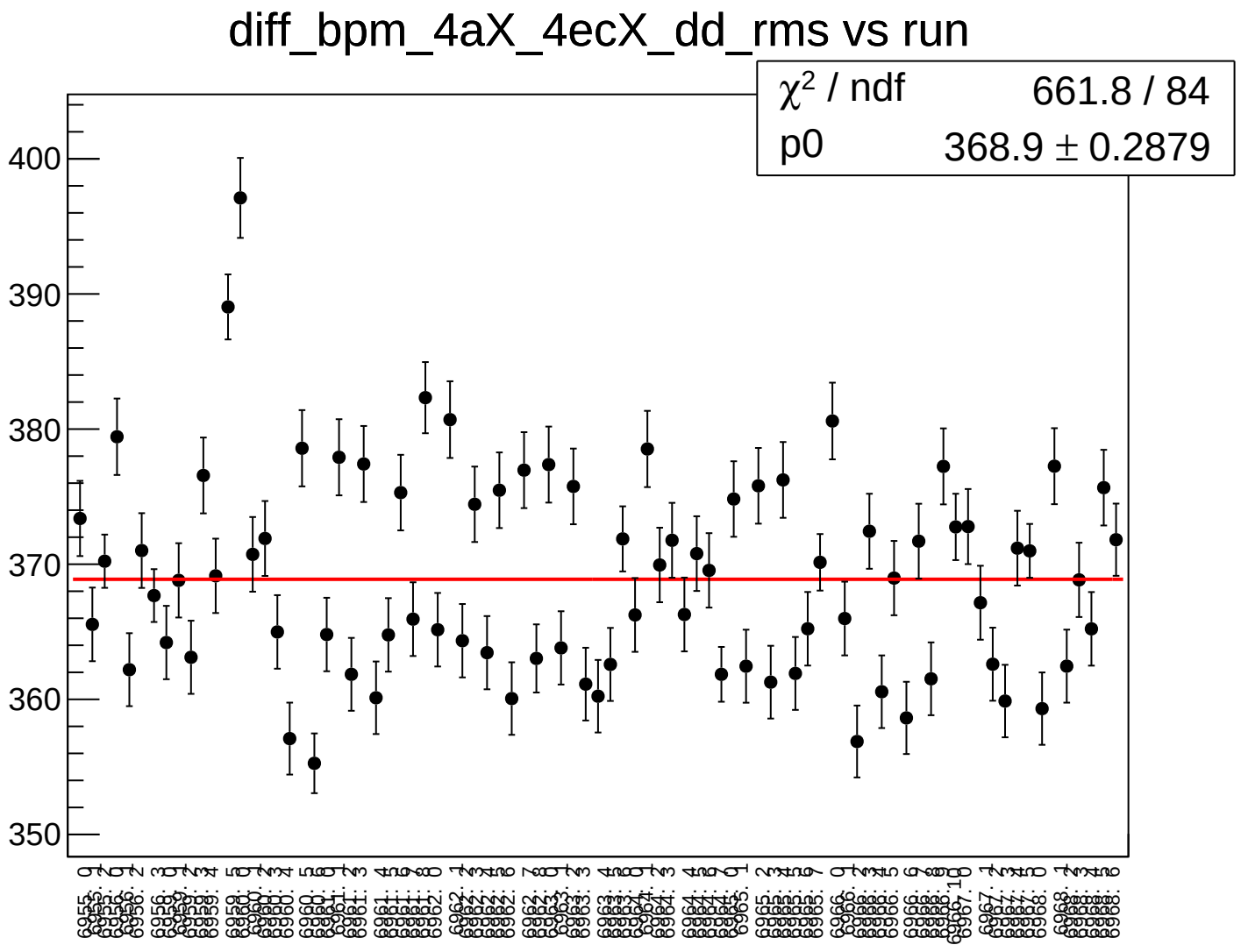

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 94.2 / 84
p0 −2.617 ± 11.7
400
200
0
−200
−400
pull
Entries 85
Mean −47.59
Std Dev 0
3
2
1
0
−1
−2

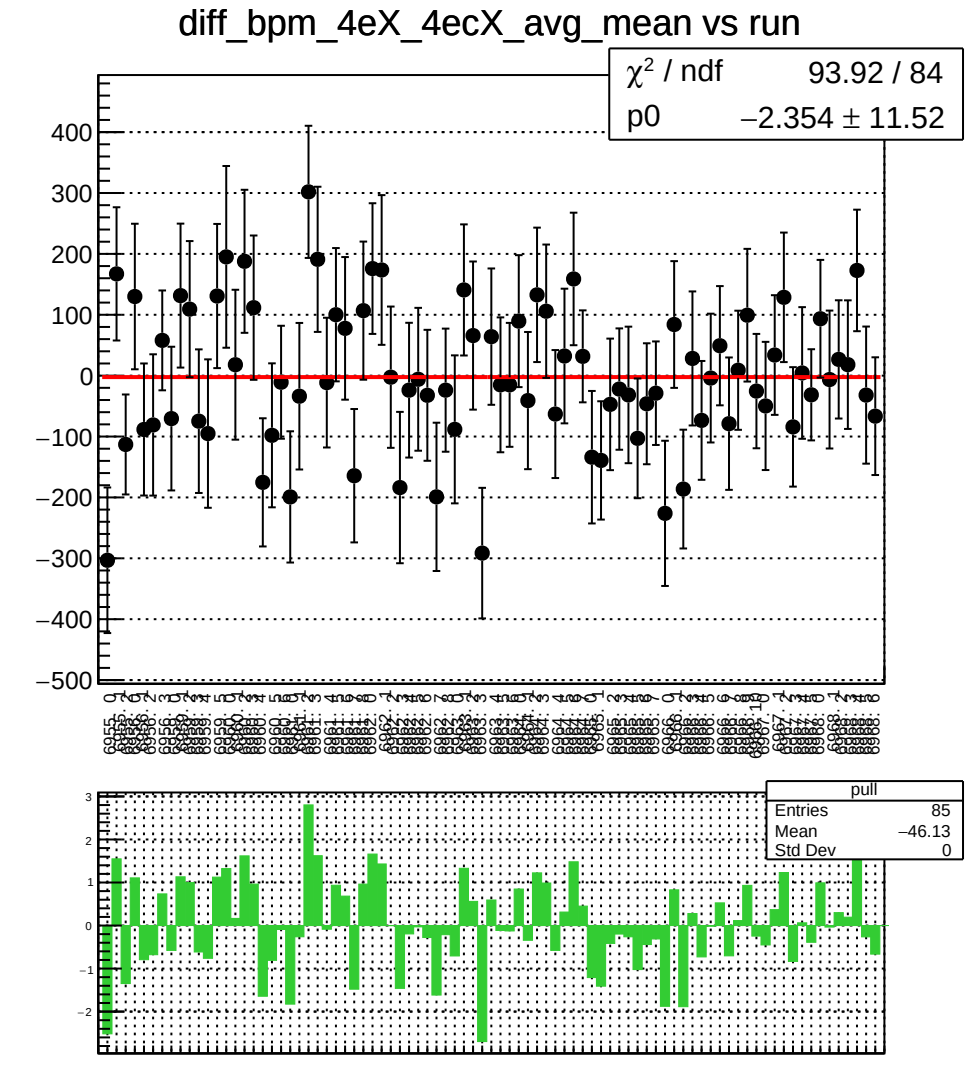

pull1D
Entries 85
Mean 0.01128
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

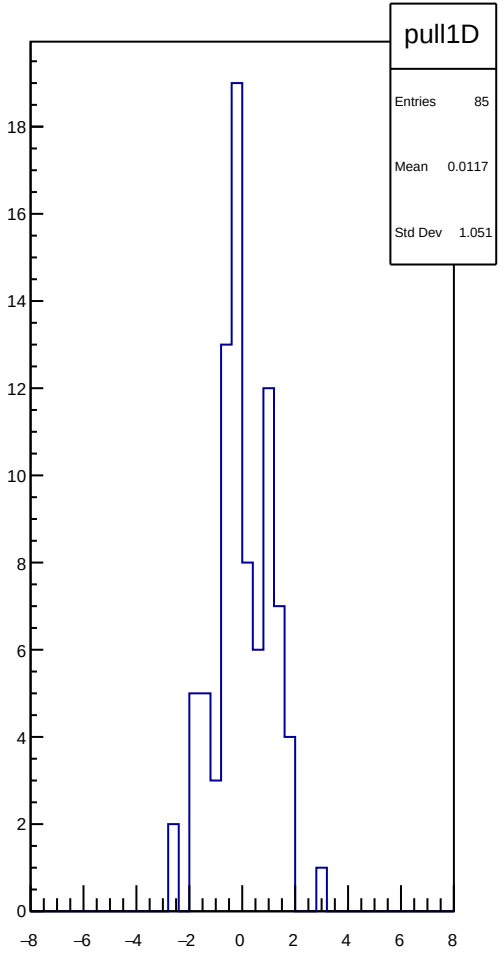

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.052e+04 / 84
p0 1.057e+04 ± 8.275
15000
14000
13000
12000
11000
10000
9000

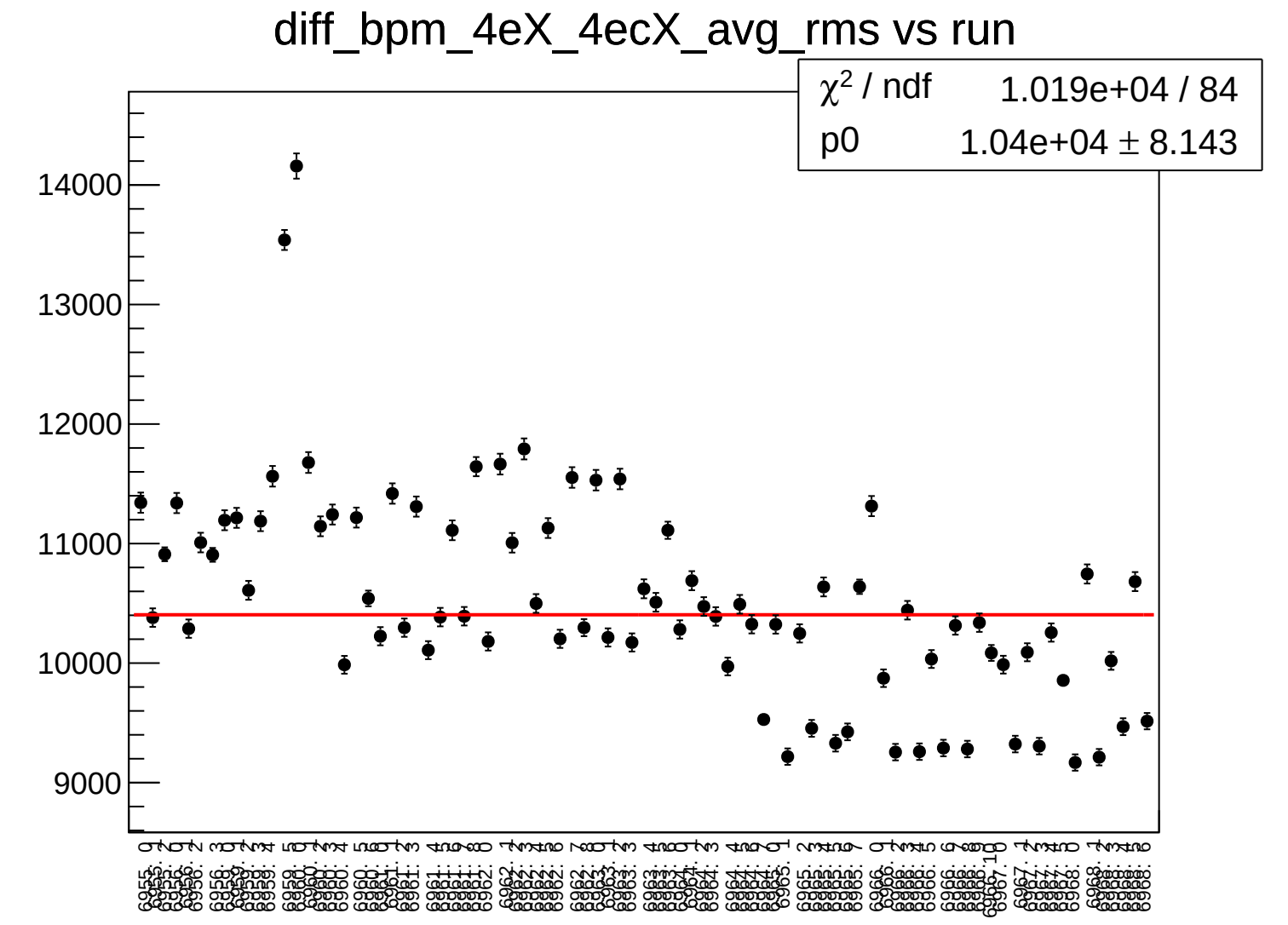

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 91.69 / 84
p0 −0.5317 ± 0.4071
pull
Entries 85
Mean −88.78
Std Dev 0

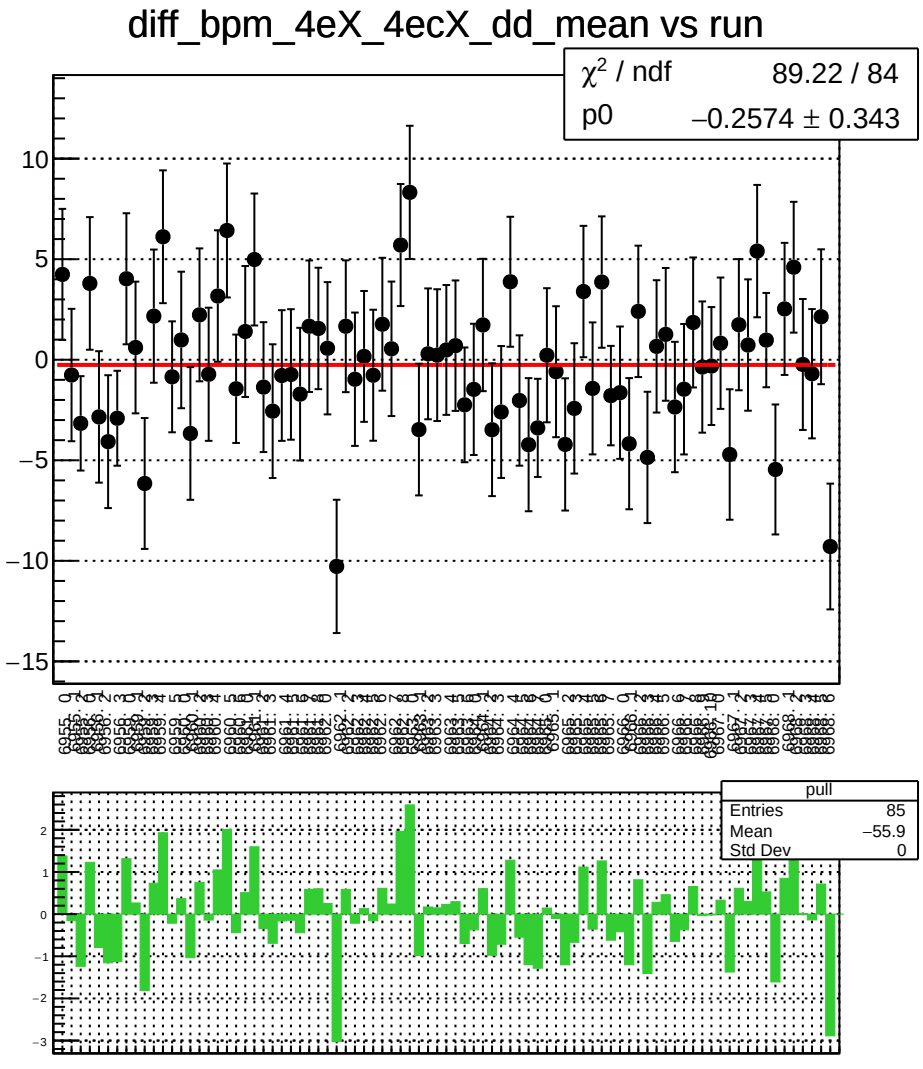

pull1D
Entries 85
Mean 0.01169
Std Dev 1.039

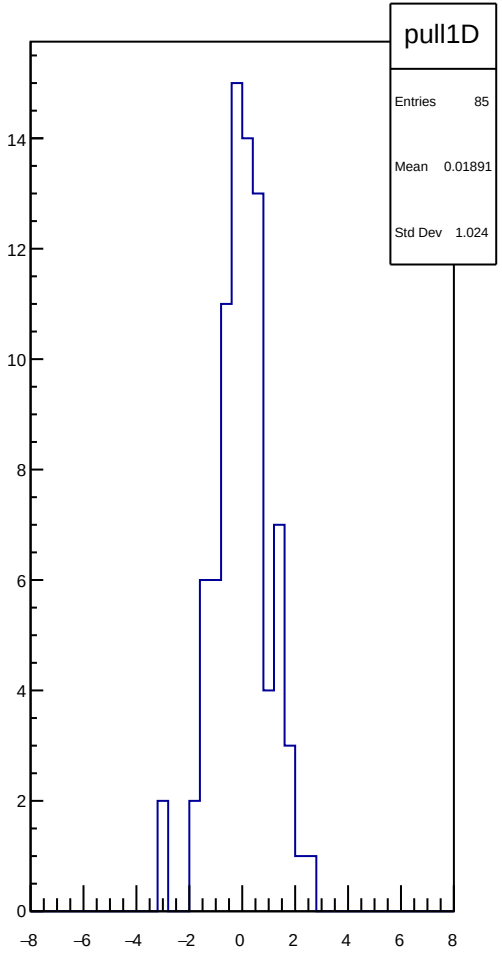

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 661.8 / 84
p0 368.9 ± 0.2879
400
390
380
370
360
350

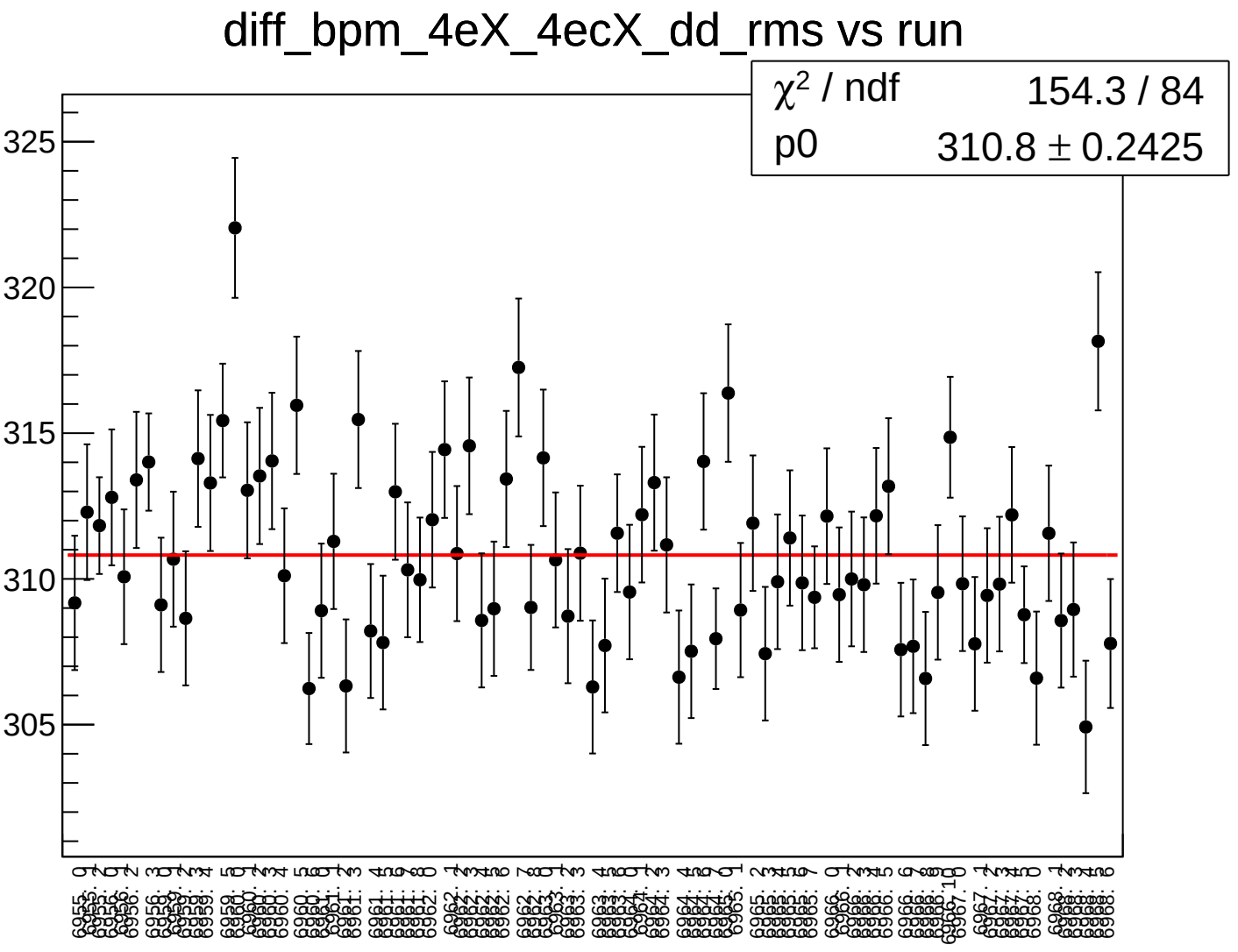

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 93.92 / 84
p0 −2.354 ± 11.52
pull
Entries 85
Mean −46.13
Std Dev 0

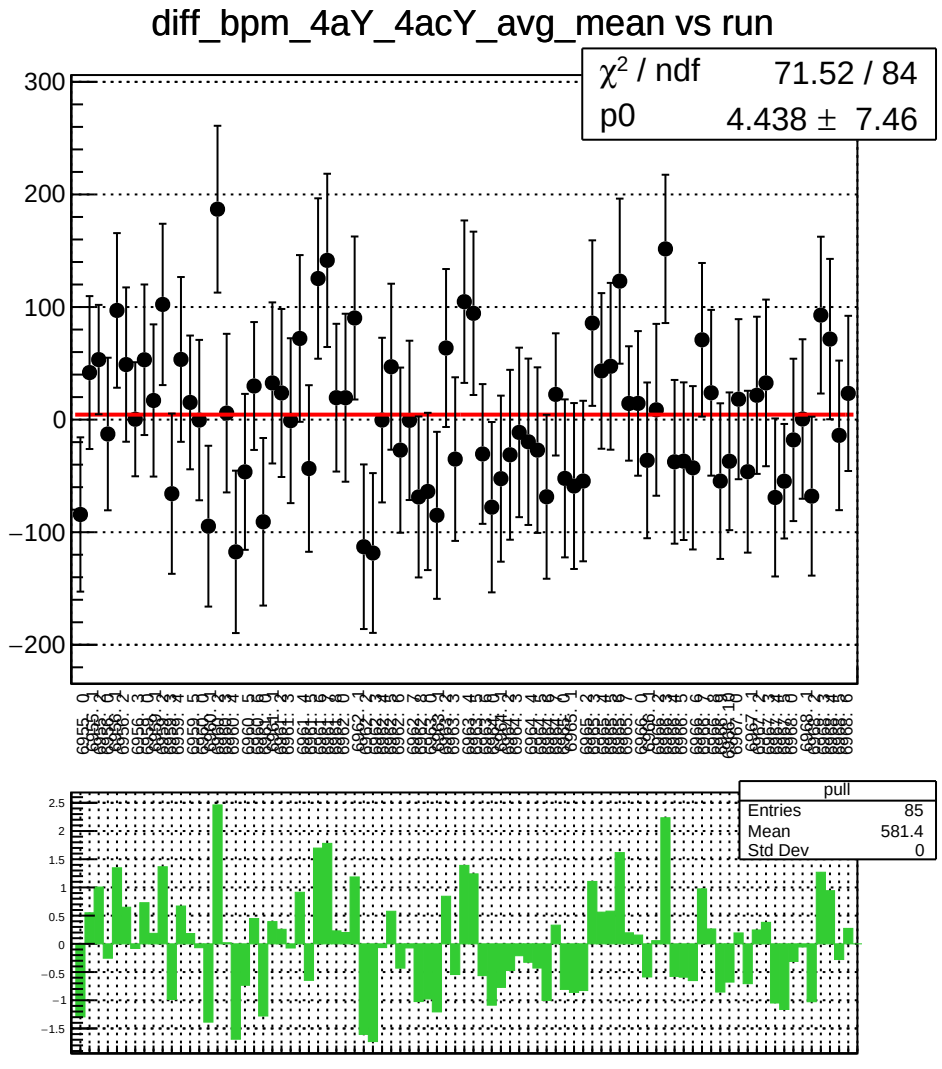

pull1D
Entries 85
Mean 0.0117
Std Dev 1.051

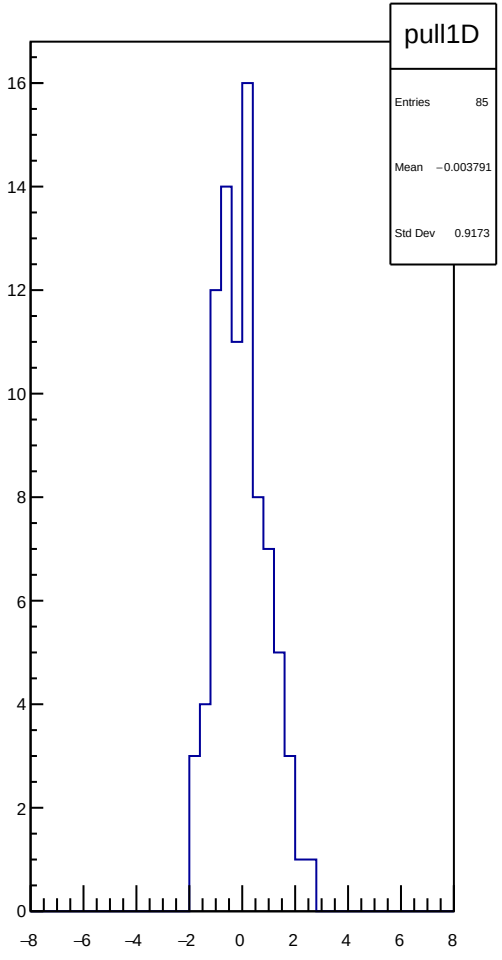

diff_bpm_4eX_4ecX_avg_rms vs run
$\chi^2$ / ndf 1.019e+04 / 84
p0 1.04e+04 ± 8.143
14000
13000
12000
11000
10000
9000

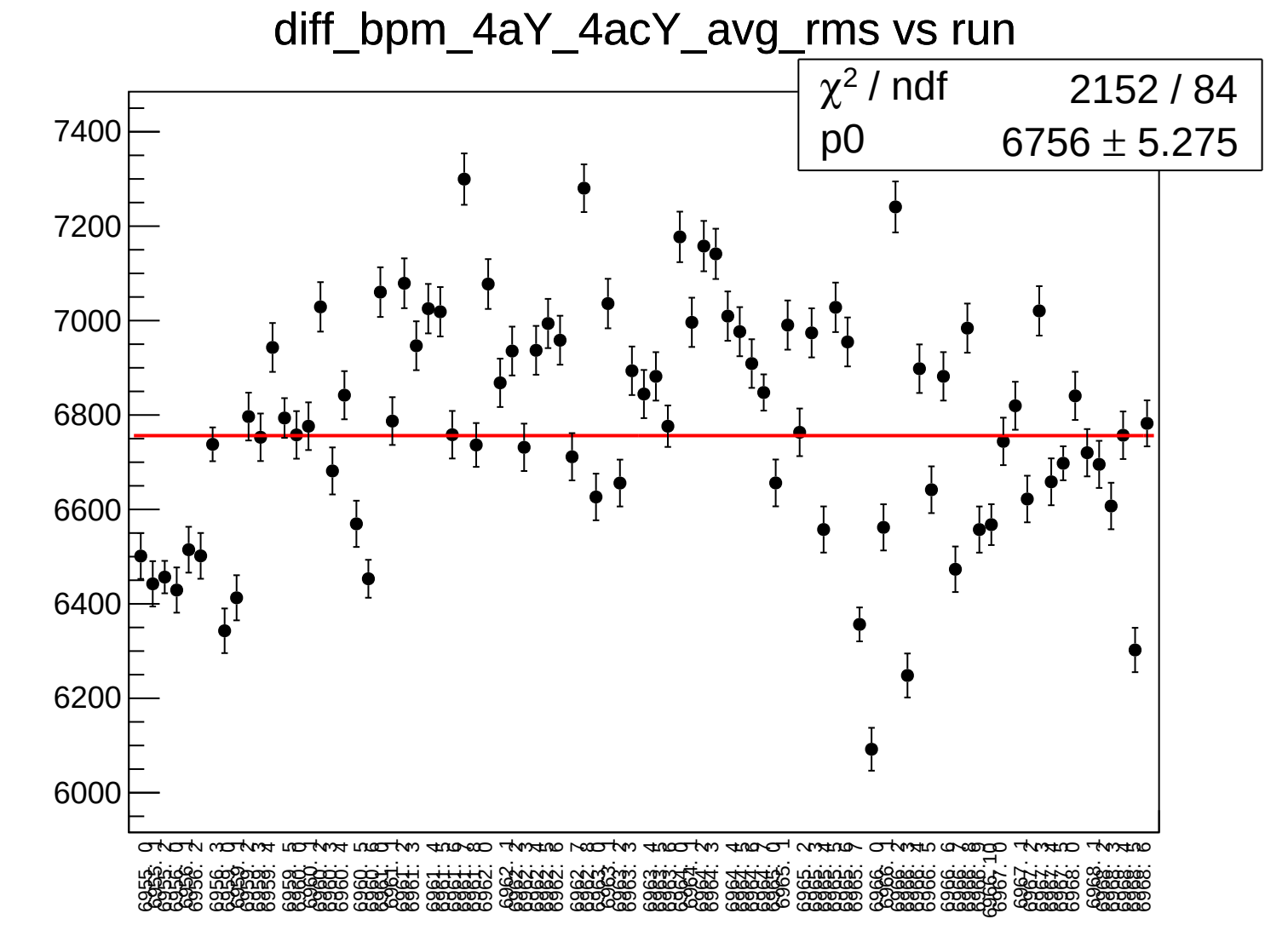

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 89.22 / 84
p0 −0.2574 ± 0.343
pull
Entries 85
Mean −55.9
Std Dev 0

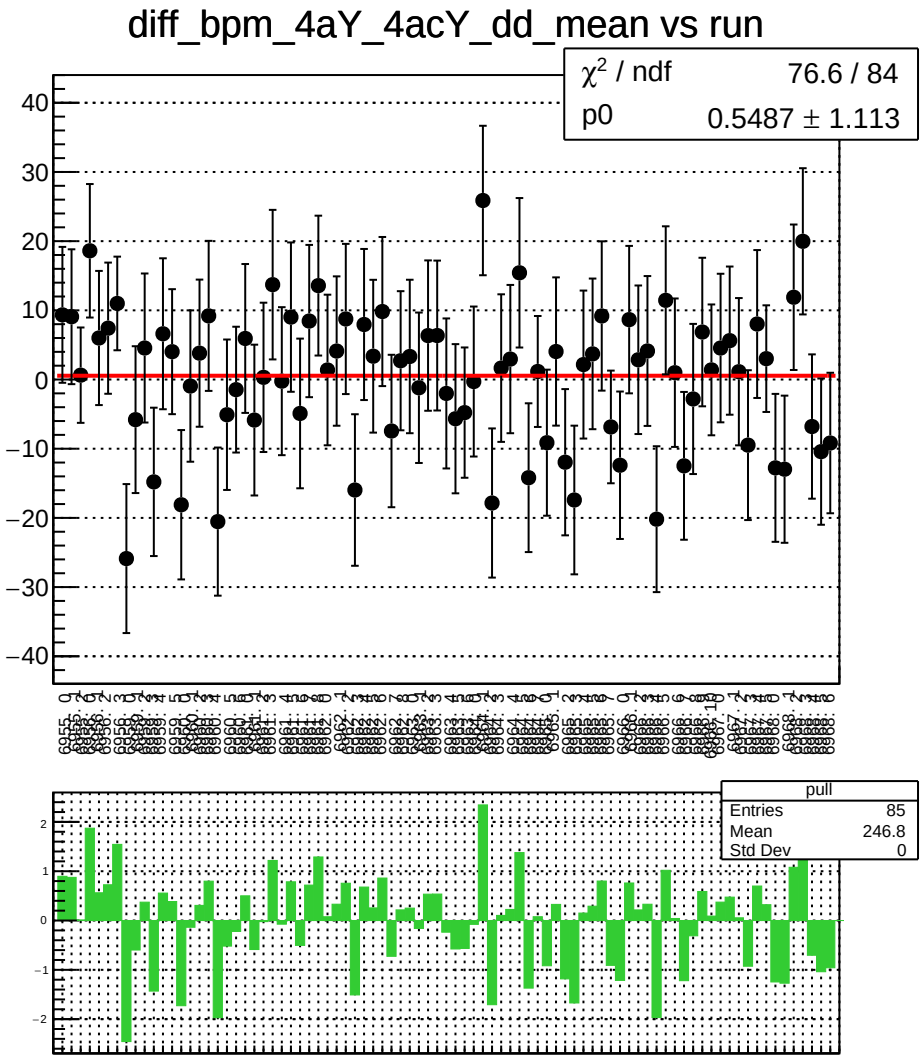

pull1D
Entries 85
Mean 0.01891
Std Dev 1.024

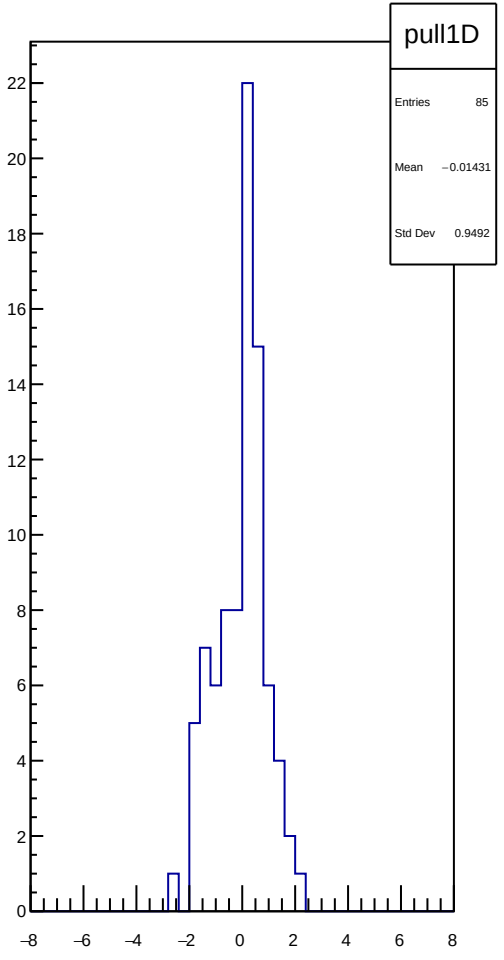

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 154.3 / 84
p0 310.8 ± 0.2425
325
320
315
310
305

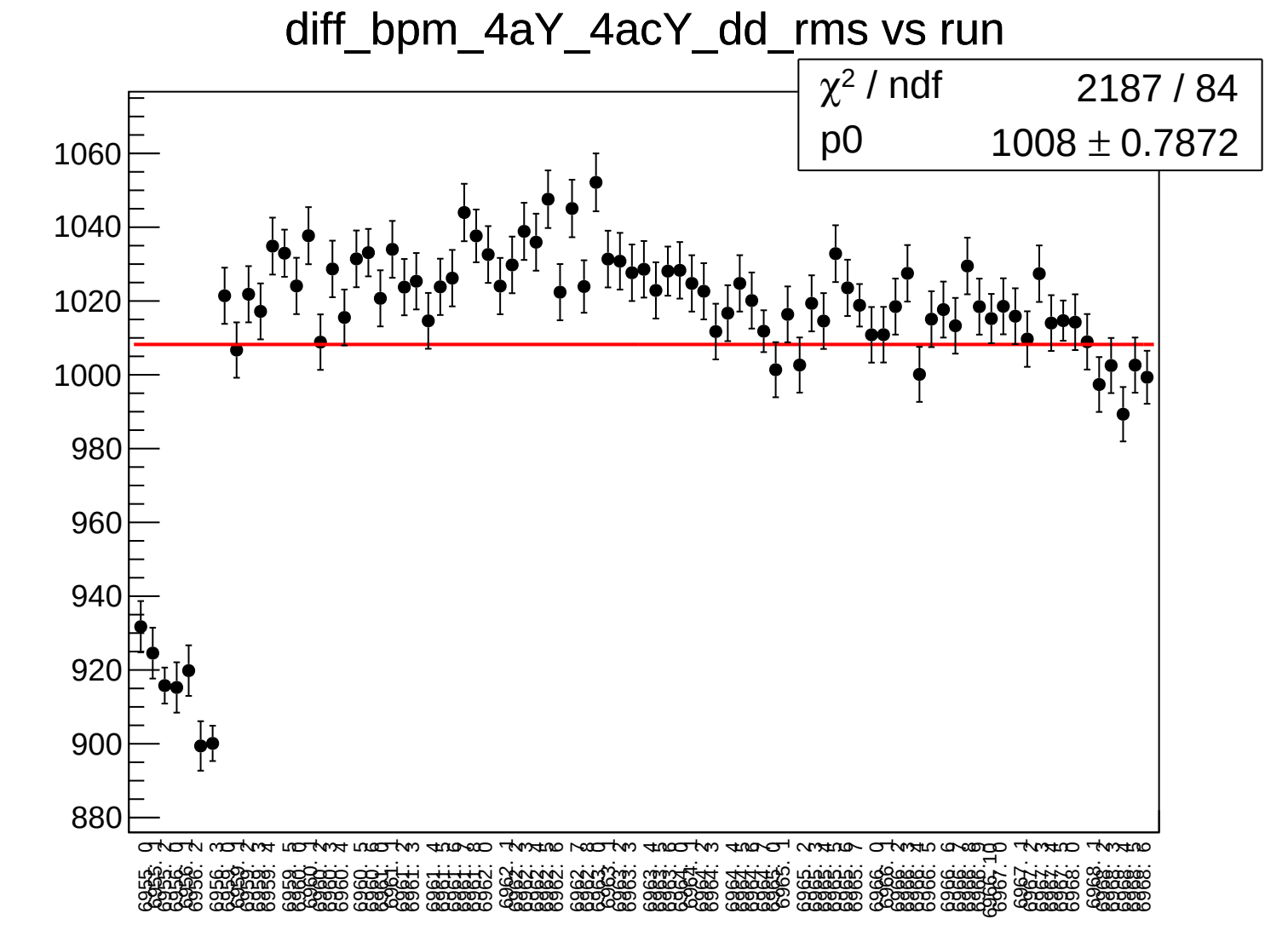

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 71.52 / 84
p0 4.438 ± 7.46
pull
Entries 85
Mean 581.4
Std Dev 0

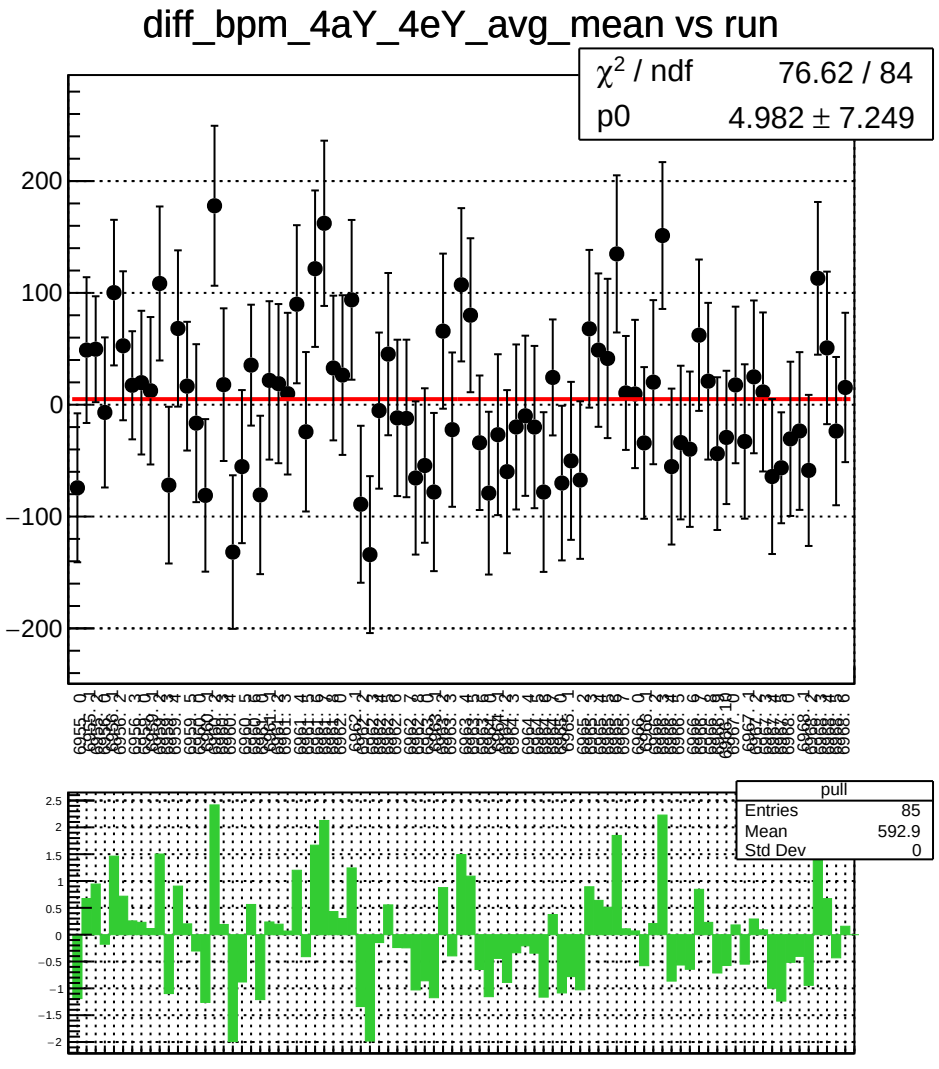

pull1D
Entries 85
Mean −0.003791
Std Dev 0.9173

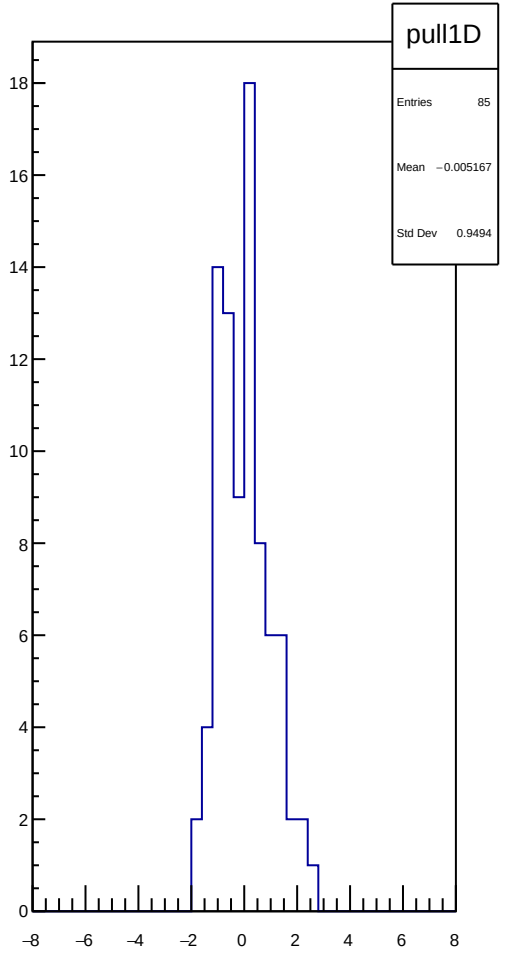

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 2152 / 84
p0 6756 ± 5.275
7400
7200
7000
6800
6600
6400
6200
6000

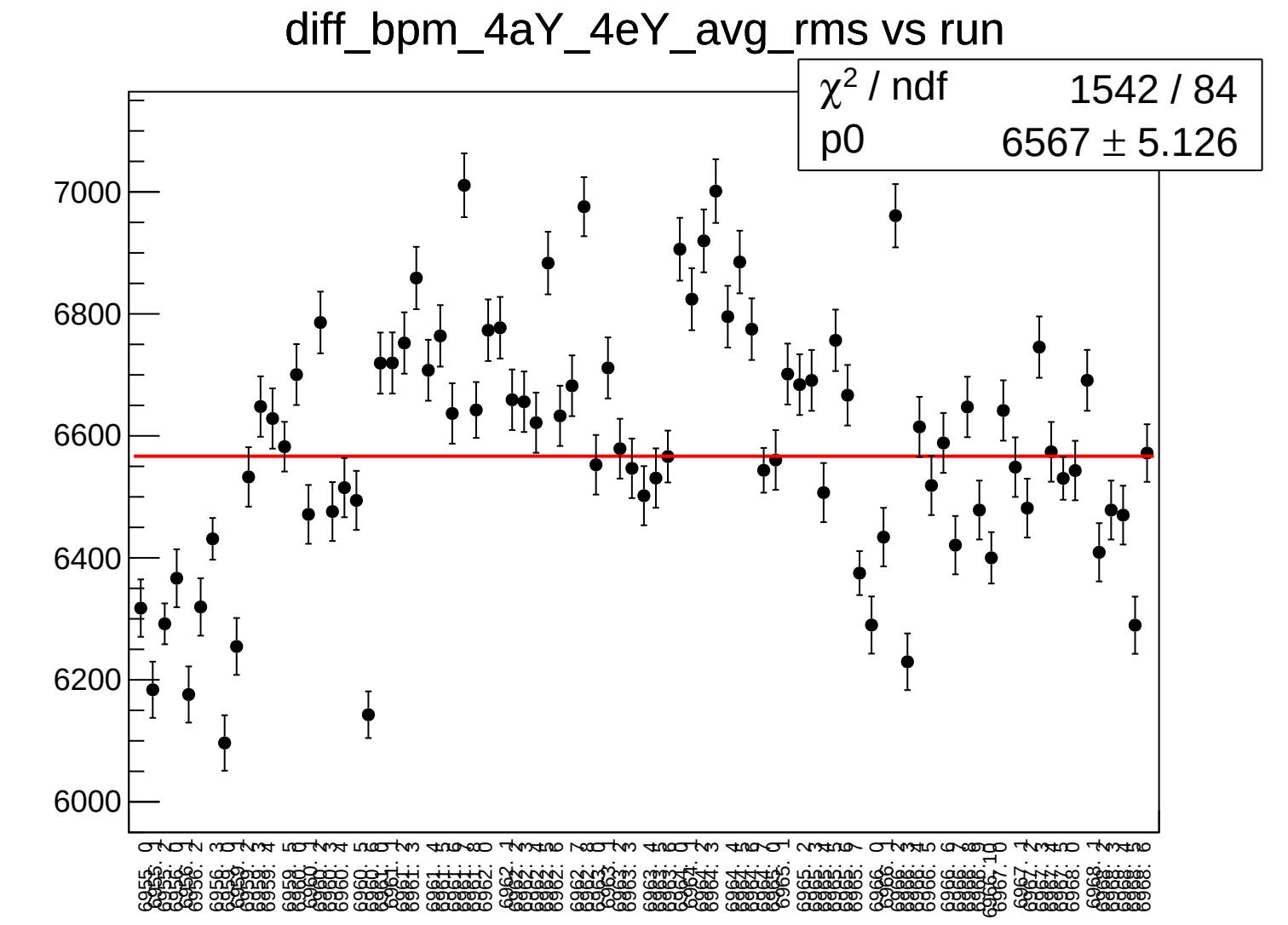

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 76.6 / 84
p0 0.5487 ± 1.113
pull
Entries 85
Mean 246.8
Std Dev 0

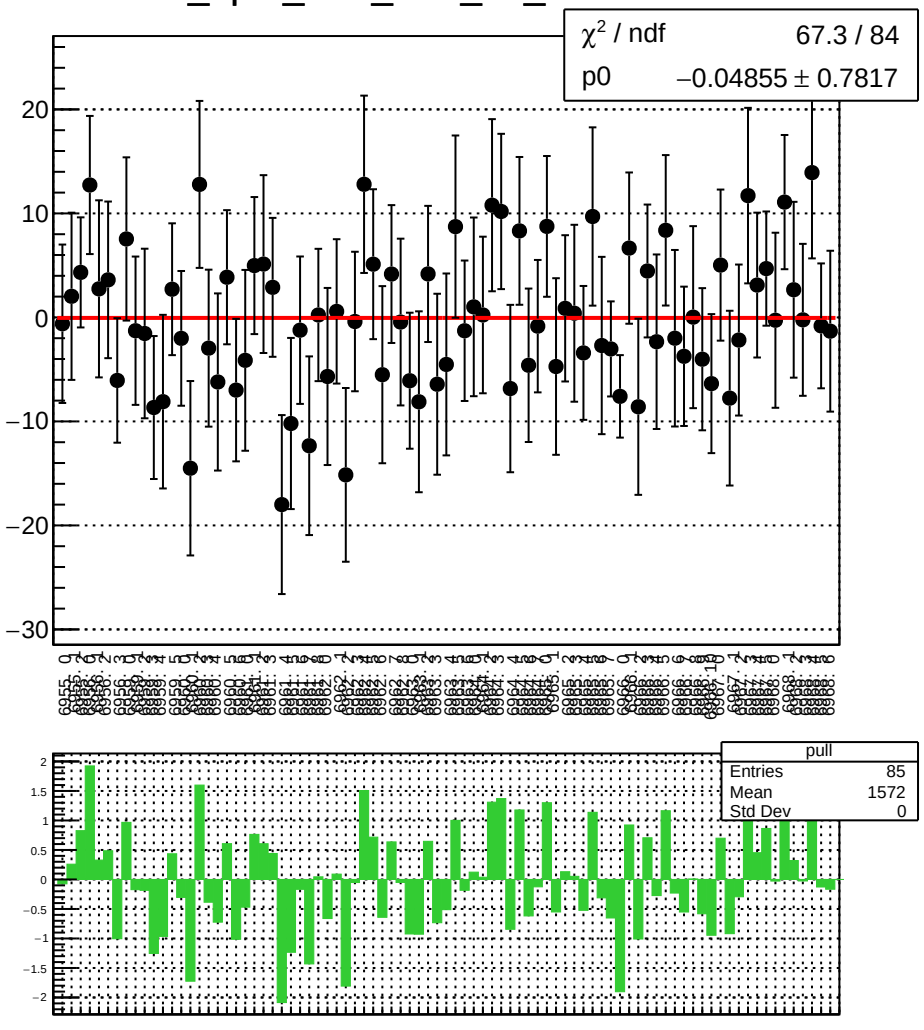

pull1D
Entries 85
Mean −0.01431
Std Dev 0.9492

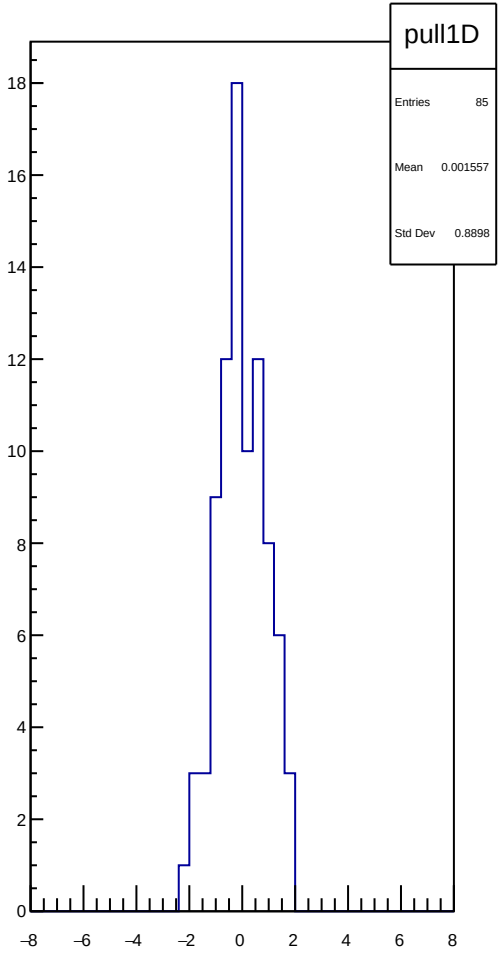

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 2187 / 84
p0 1008 ± 0.7872
1060
1040
1020
1000
980
960
940
920
900
880

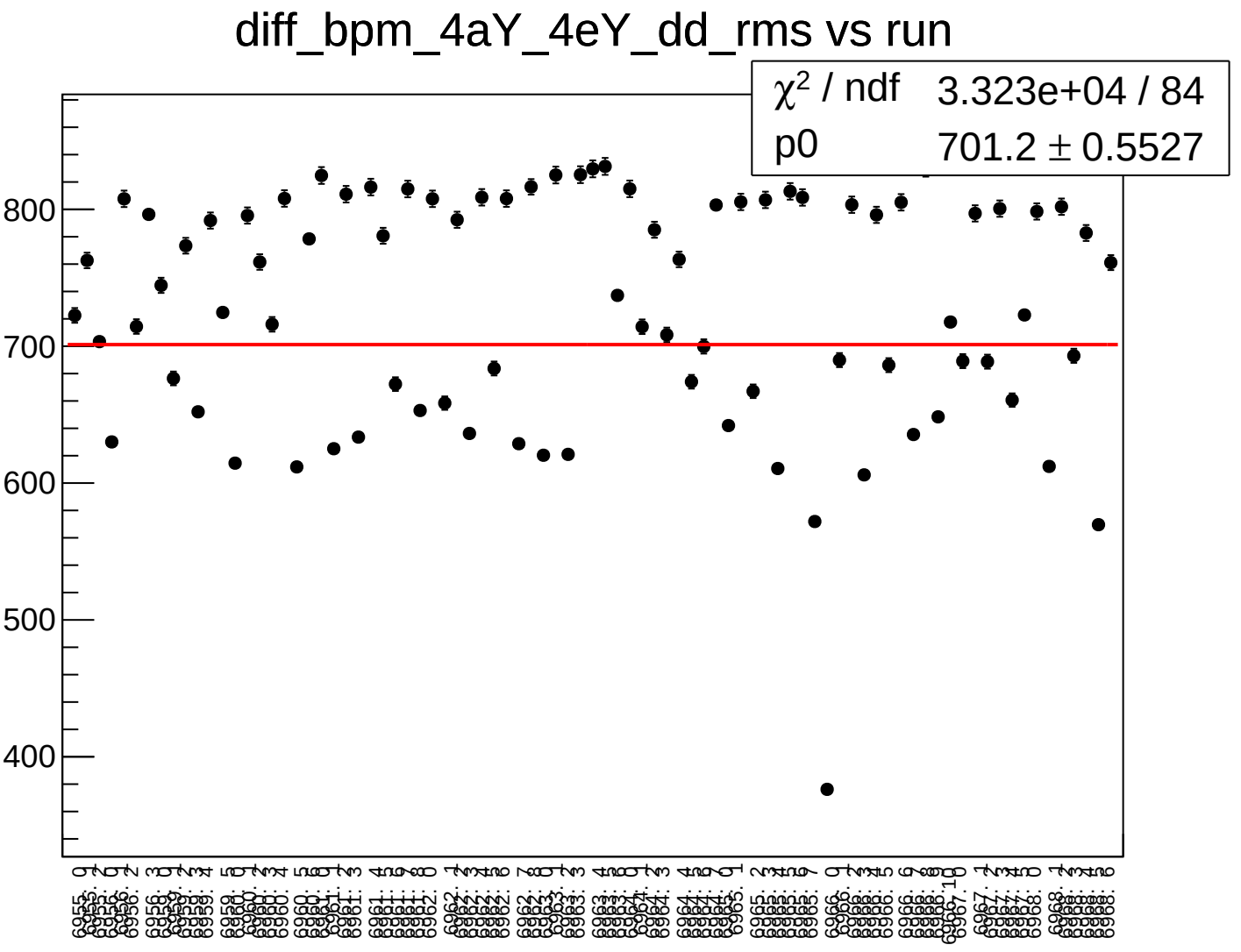

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 76.62 / 84
p0 4.982 ± 7.249
200
100
0
−100
−200
pull
Entries 85
Mean 592.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

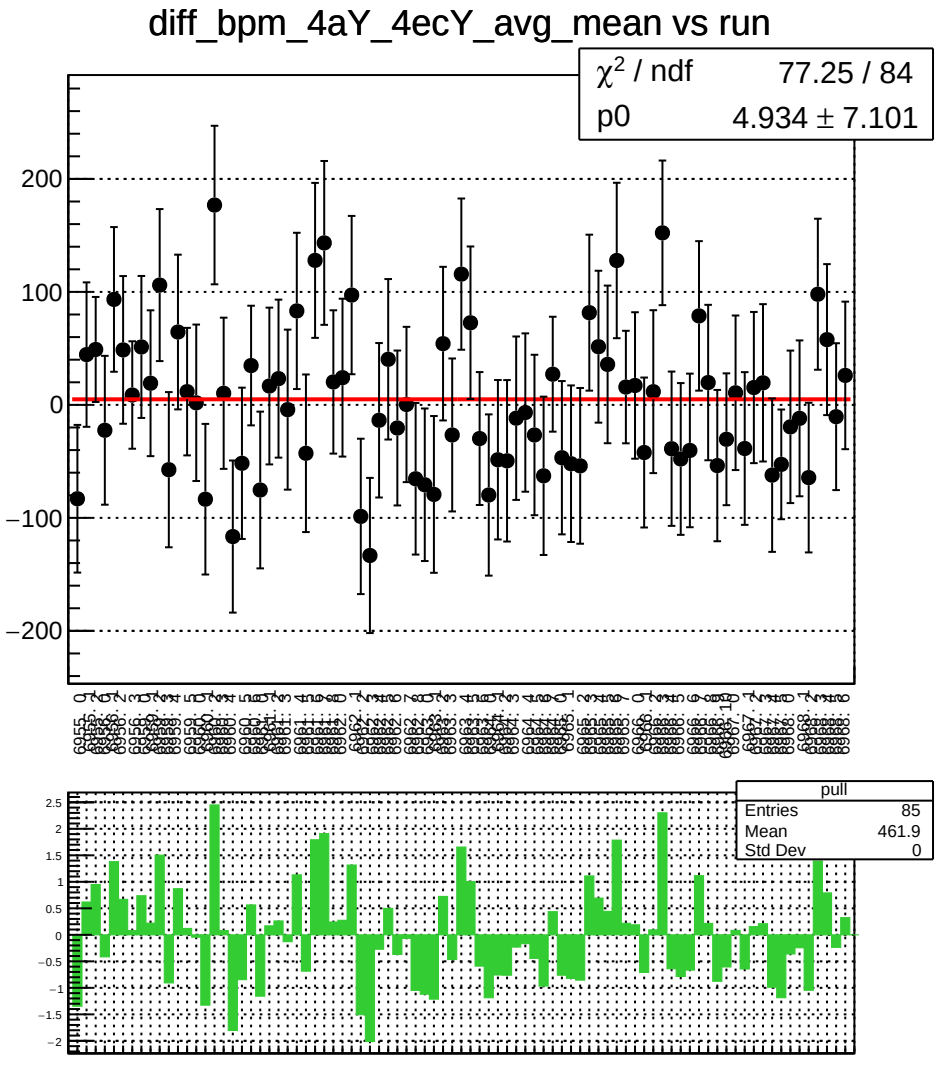

pull1D
Entries 85
Mean −0.005167
Std Dev 0.9494
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

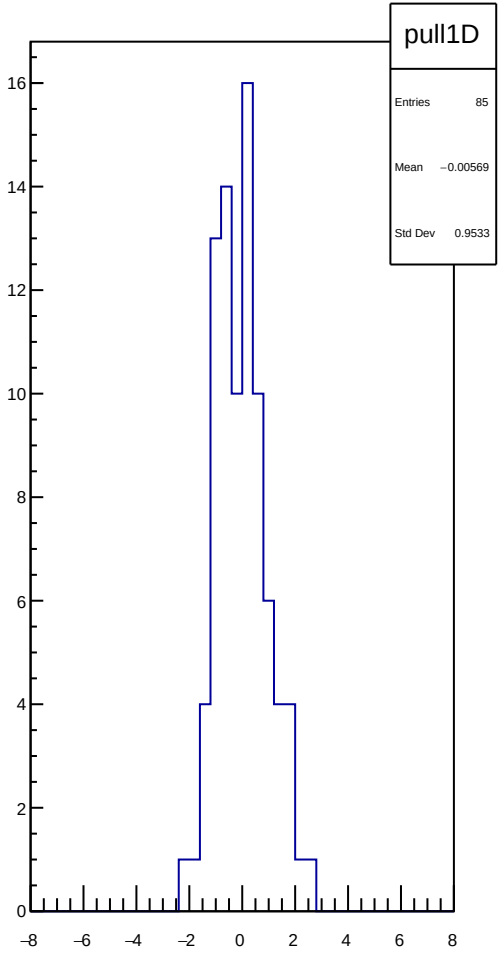

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1542 / 84
p0 6567 ± 5.126
7000
6800
6600
6400
6200
6000

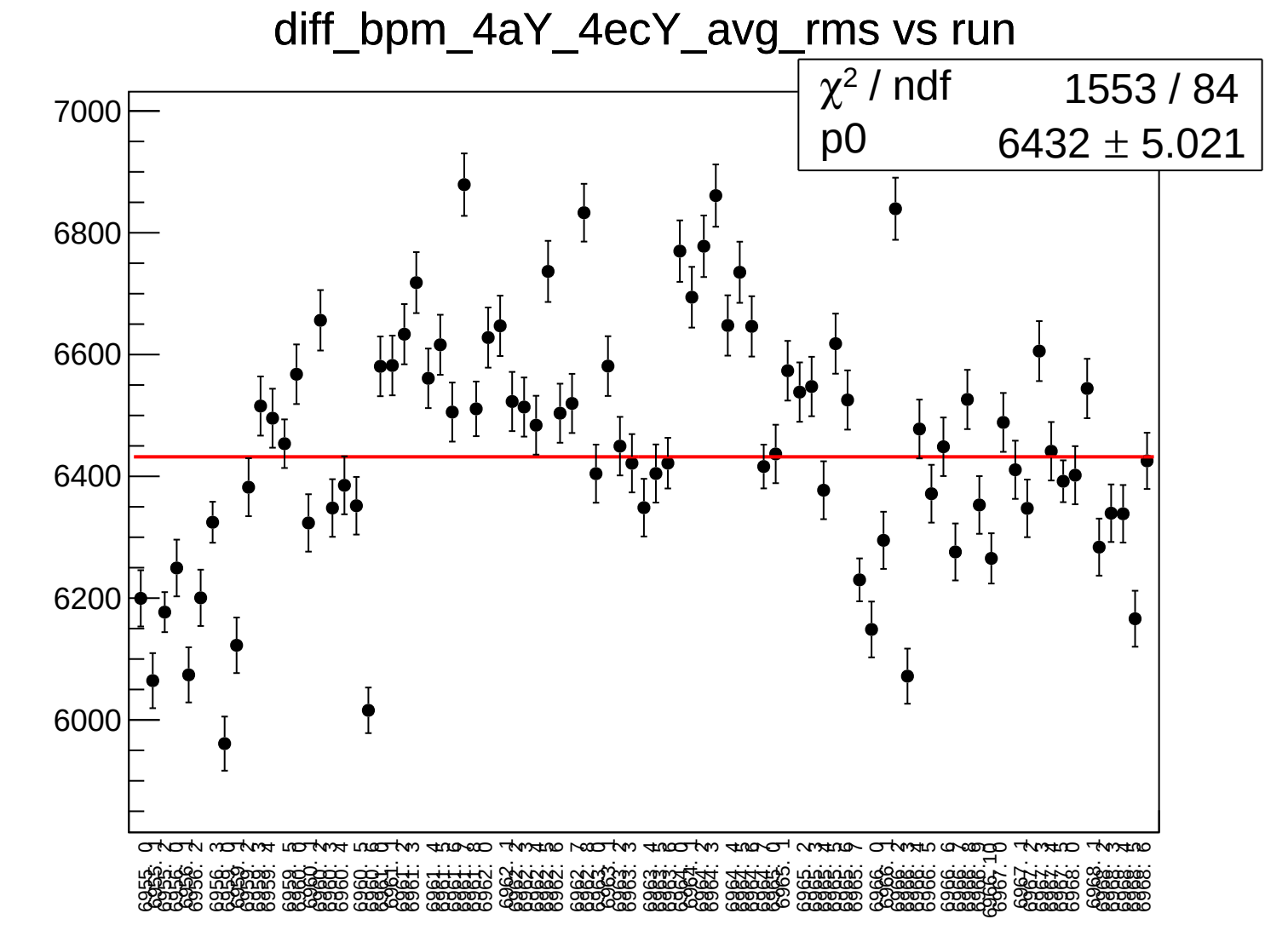

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 67.3 / 84
p0 −0.04855 ± 0.7817
pull
Entries 85
Mean 1572
Std Dev 0

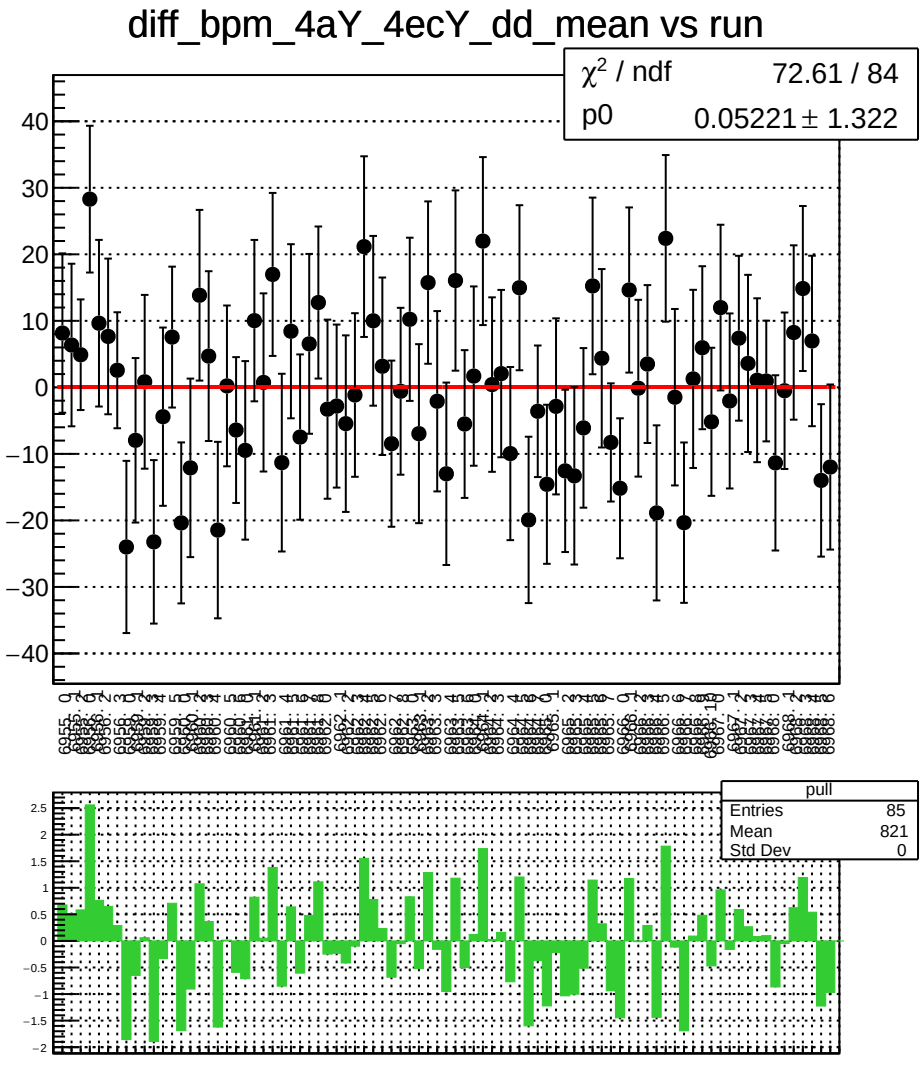

pull1D
Entries 85
Mean 0.001557
Std Dev 0.8898

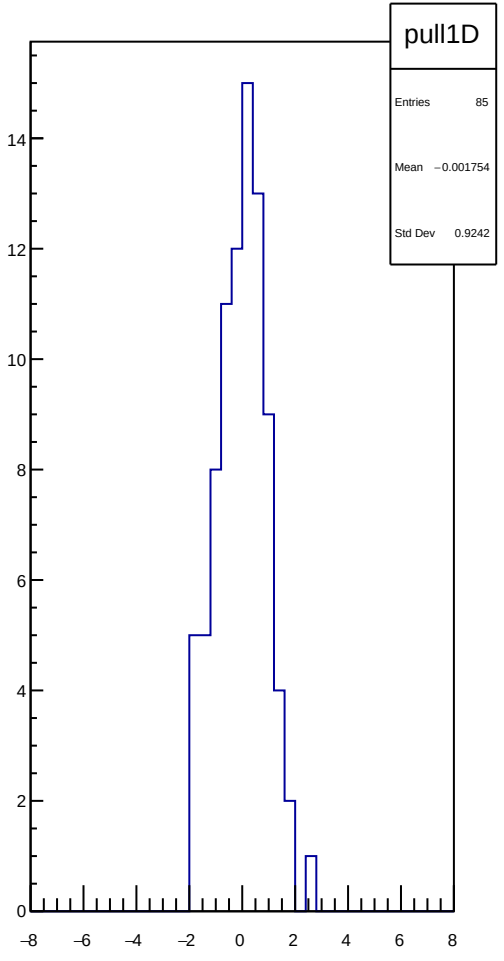

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 3.323e+04 / 84
p0 701.2 ± 0.5527
800
700
600
500
400

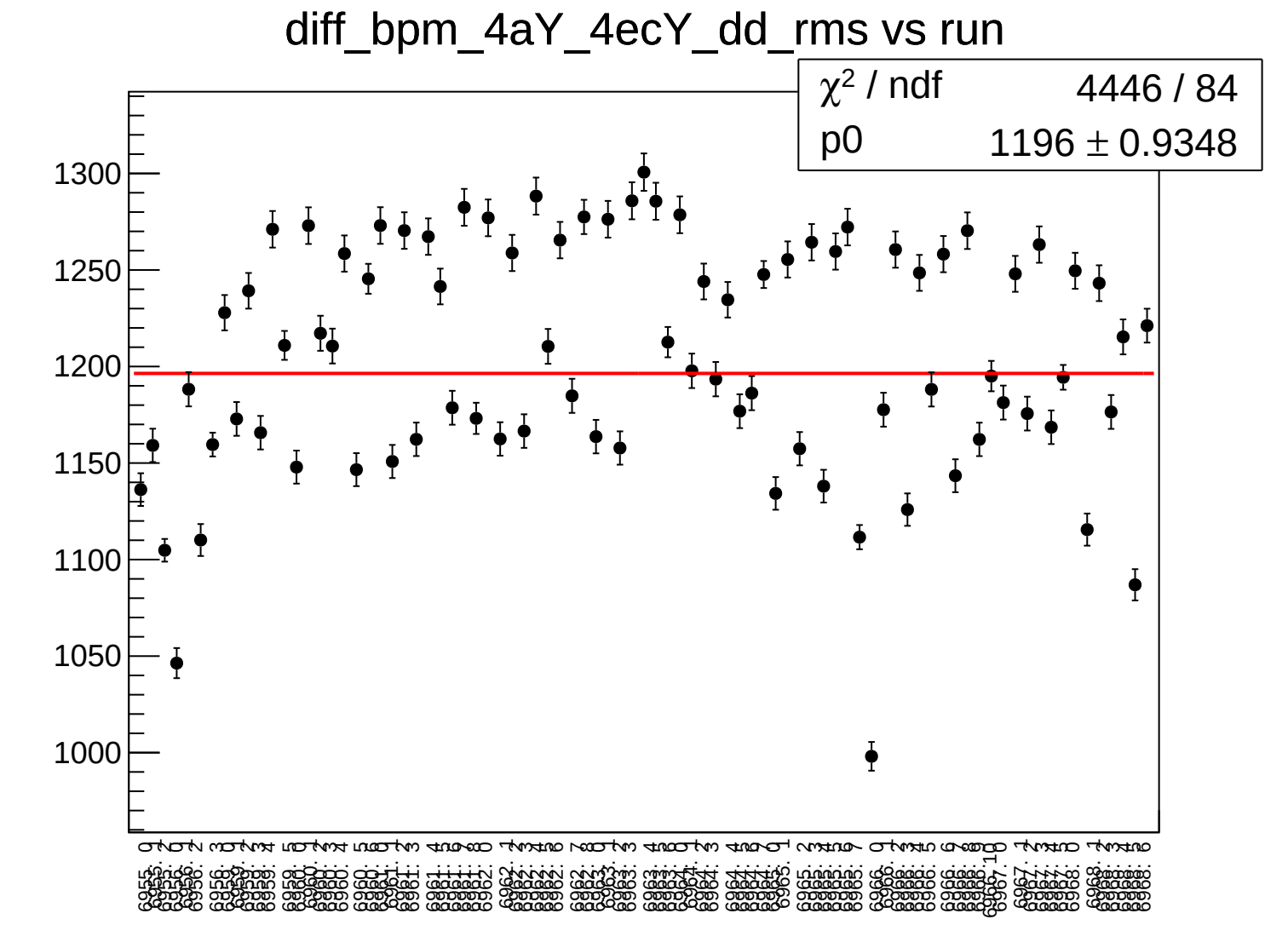

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 77.25 / 84
p0 4.934 ± 7.101
pull
Entries 85
Mean 461.9
Std Dev 0

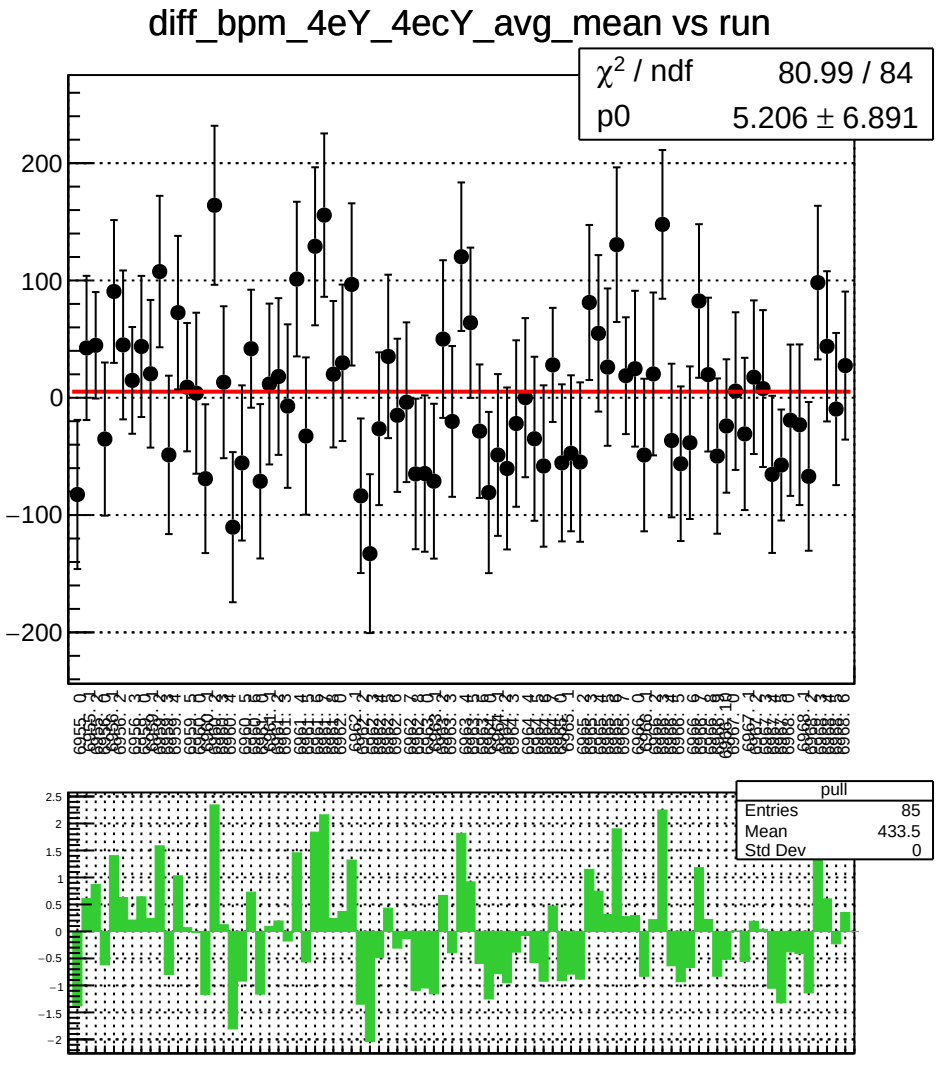

pull1D
Entries 85
Mean −0.00569
Std Dev 0.9533

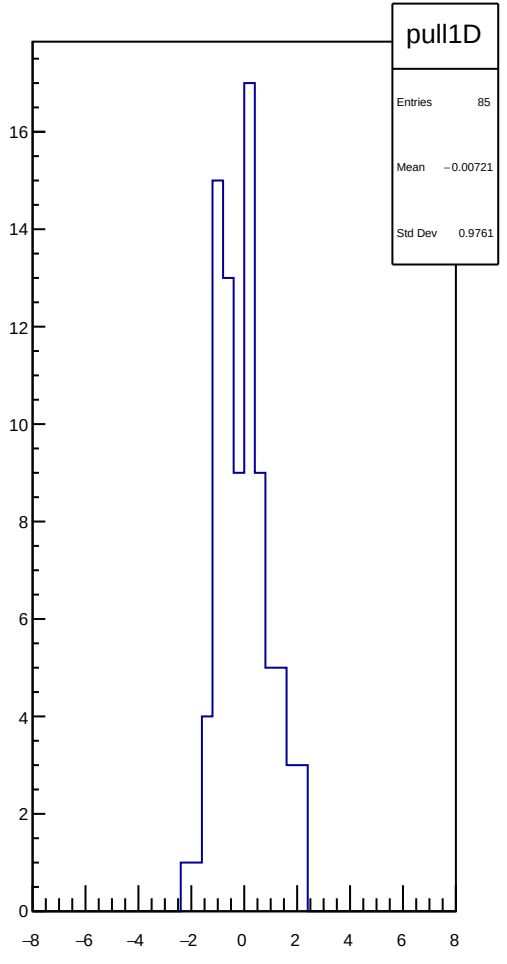

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1553 / 84
p0 6432 ± 5.021
7000
6800
6600
6400
6200
6000

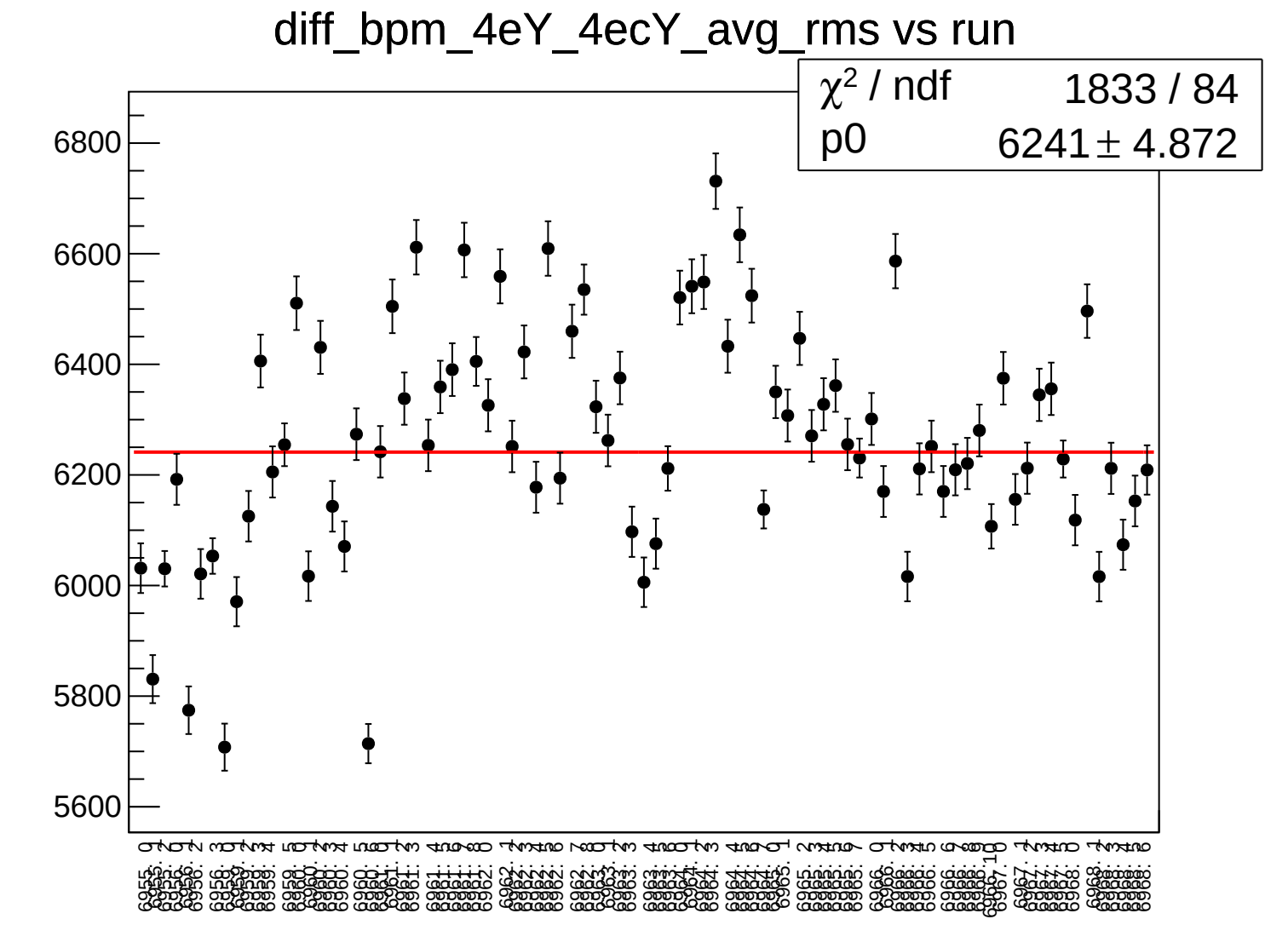

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 72.61 / 84
p0 0.05221 ± 1.322
pull
Entries 85
Mean 821
Std Dev 0

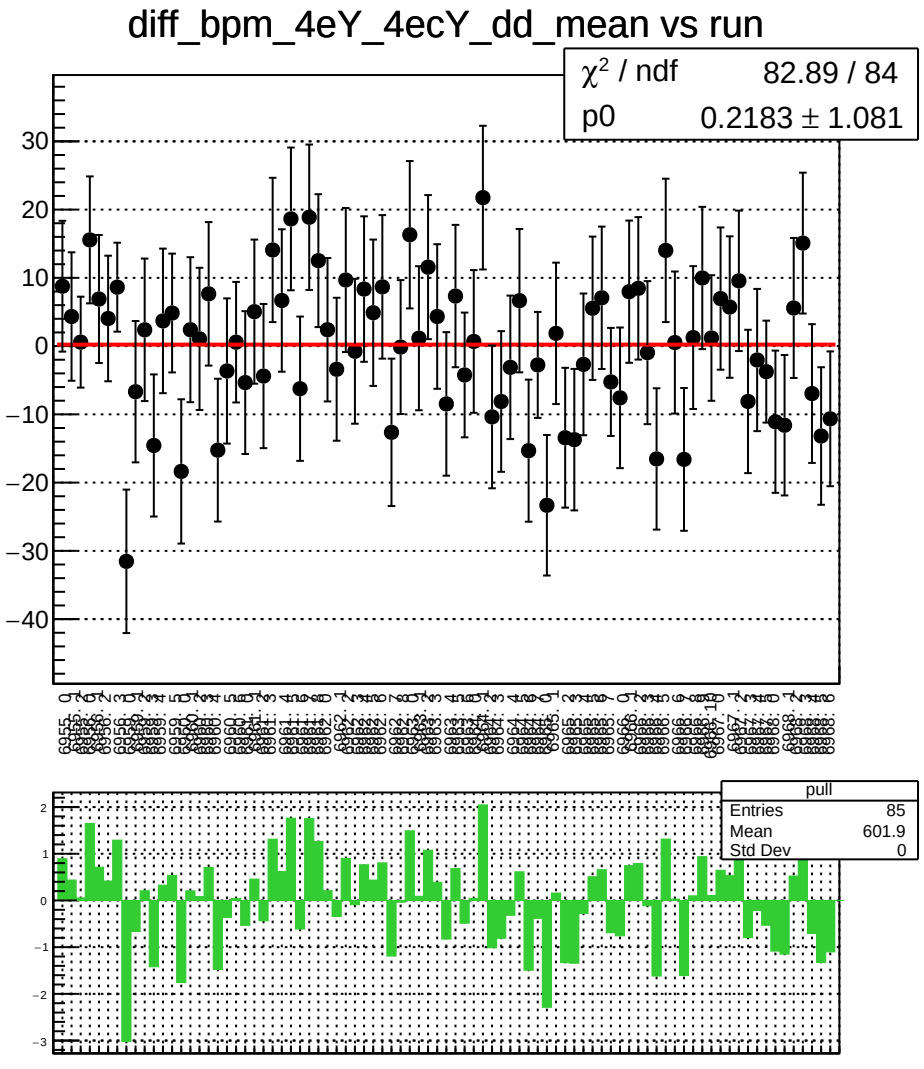

pull1D
Entries 85
Mean −0.001754
Std Dev 0.9242

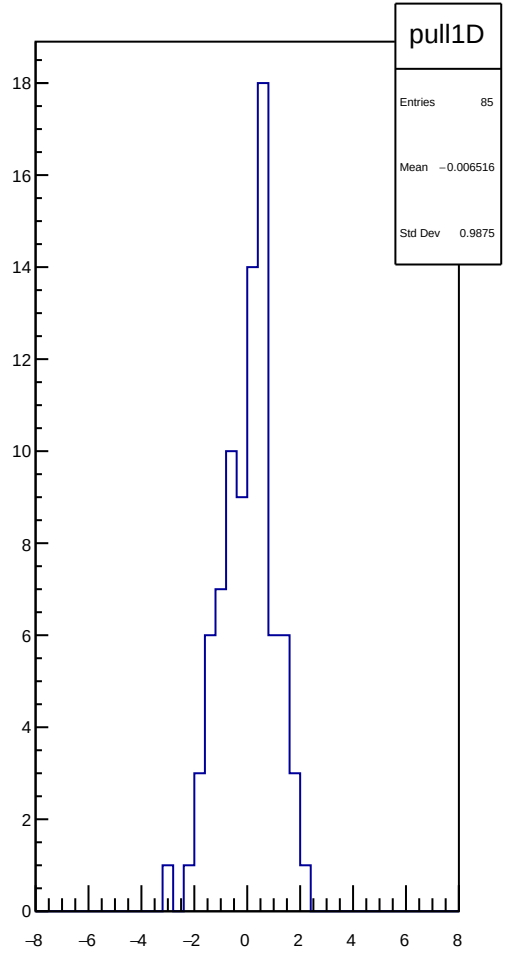

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 4446 / 84
p0 1196 ± 0.9348
1300
1250
1200
1150
1100
1050
1000

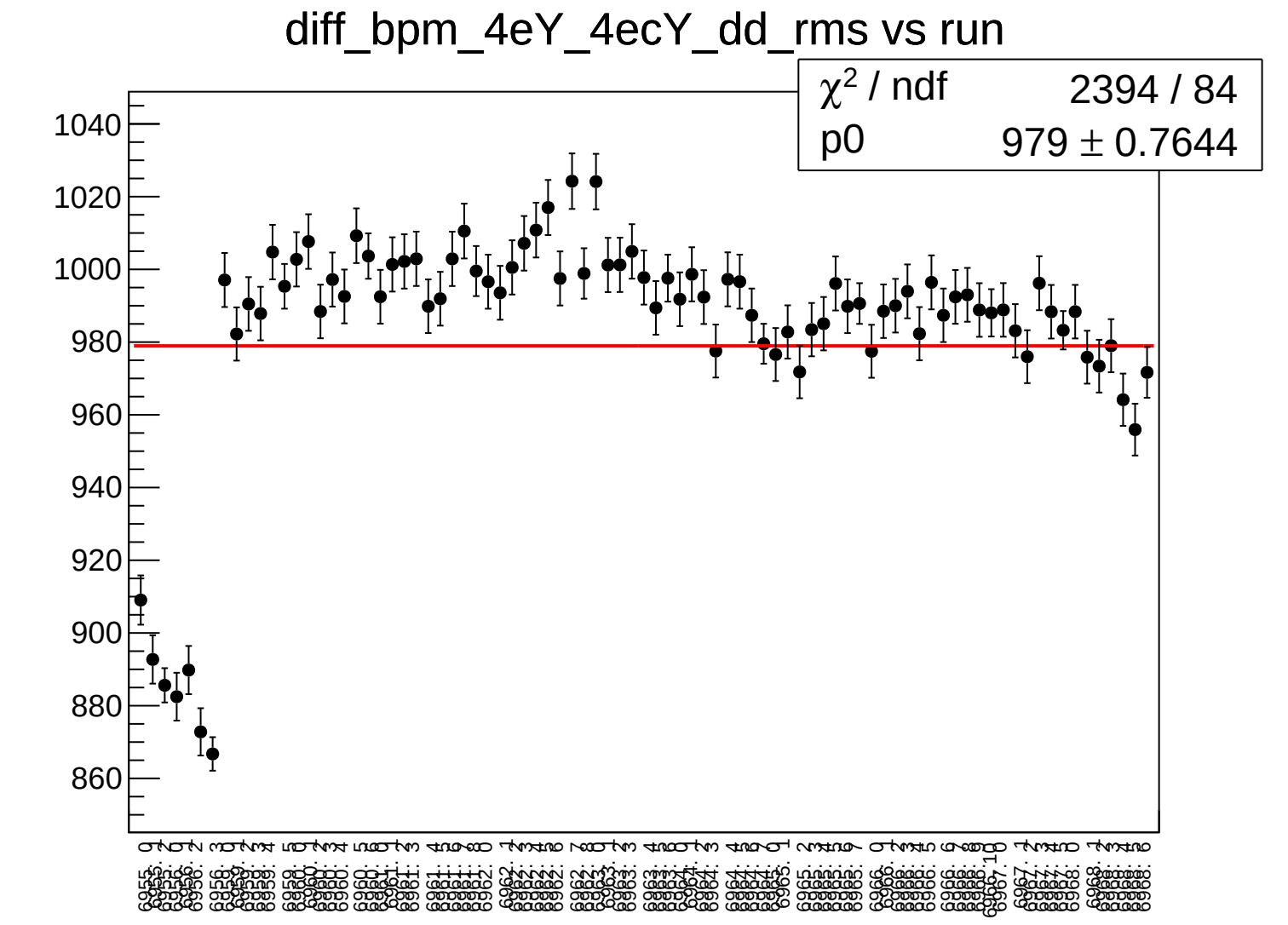

diff_bpm_4eY_4ecY_avg_mean vs run
$\chi^2$ / ndf 80.99 / 84
p0 5.206 ± 6.891
200
100
0
−100
−200
pull
Entries 85
Mean 433.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

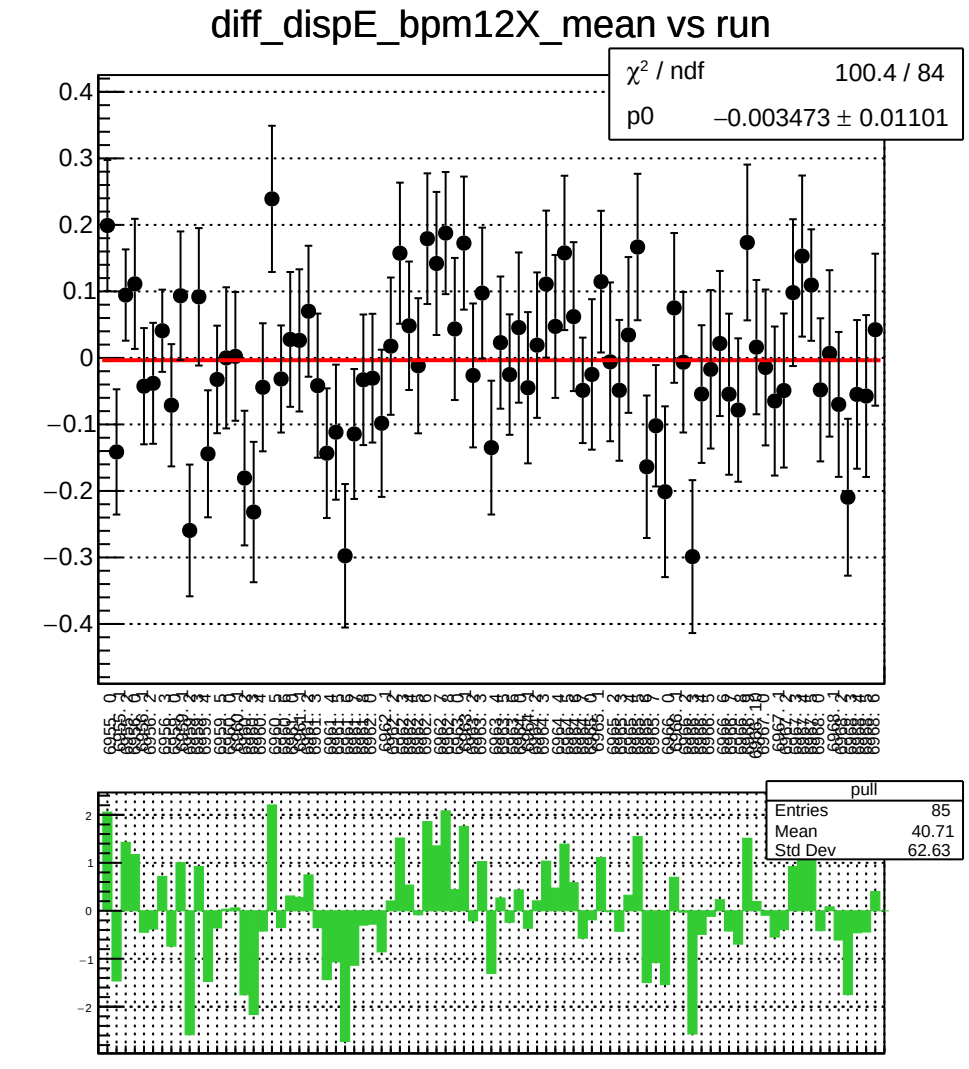

pull1D
Entries 85
Mean −0.00721
Std Dev 0.9761
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

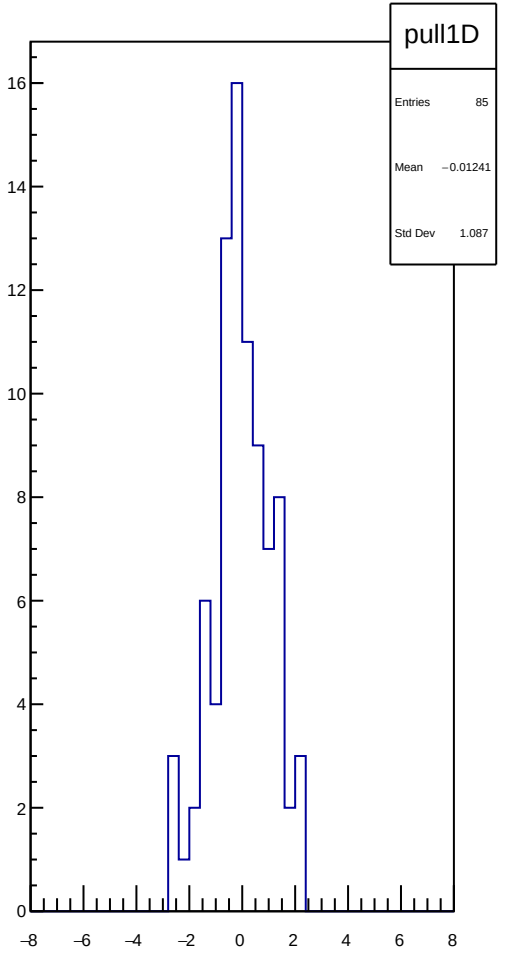

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1833 / 84
p0 6241 ± 4.872
6800
6600
6400
6200
6000
5800
5600

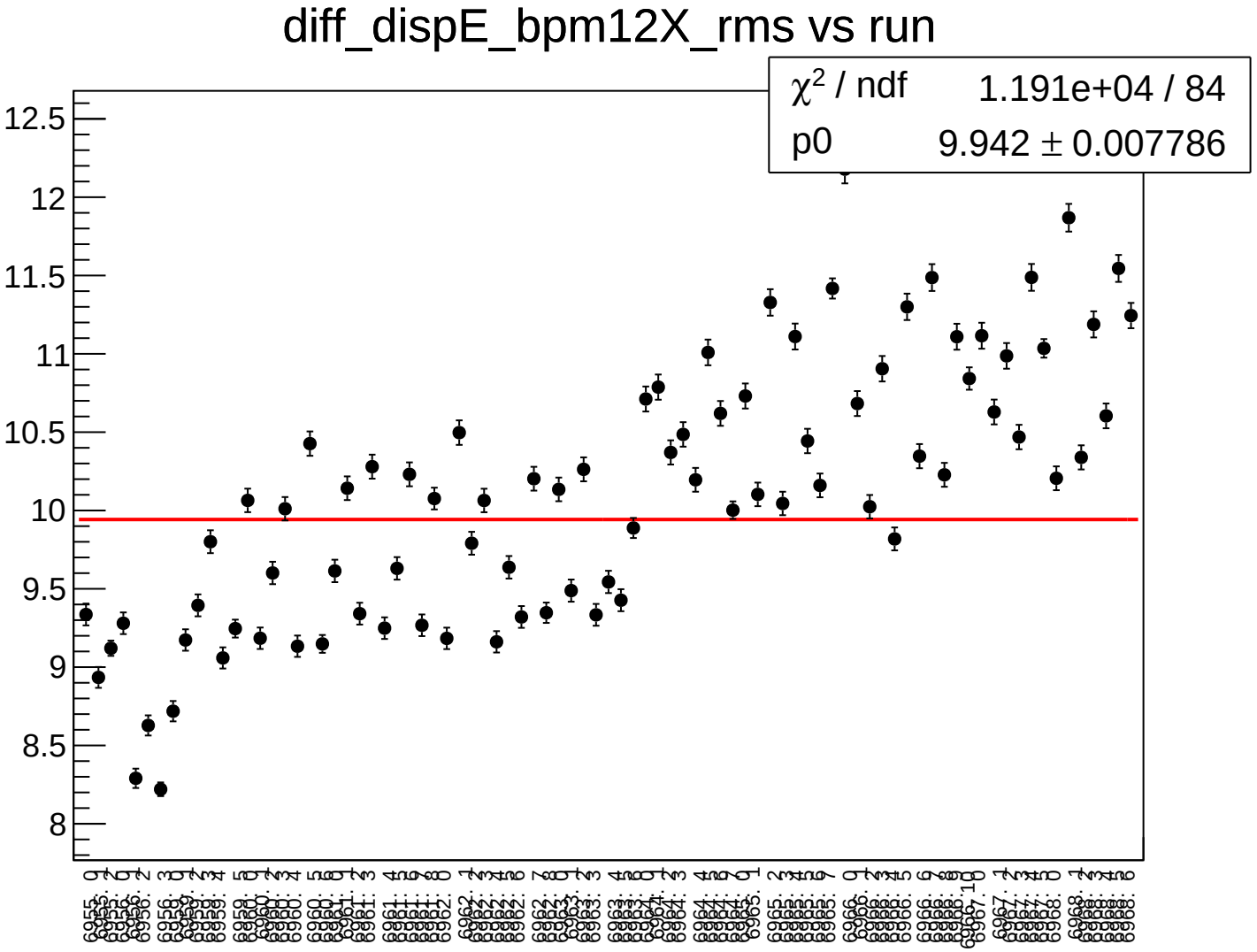

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 82.89 / 84
p0 0.2183 ± 1.081
pull
Entries 85
Mean 601.9
Std Dev 0

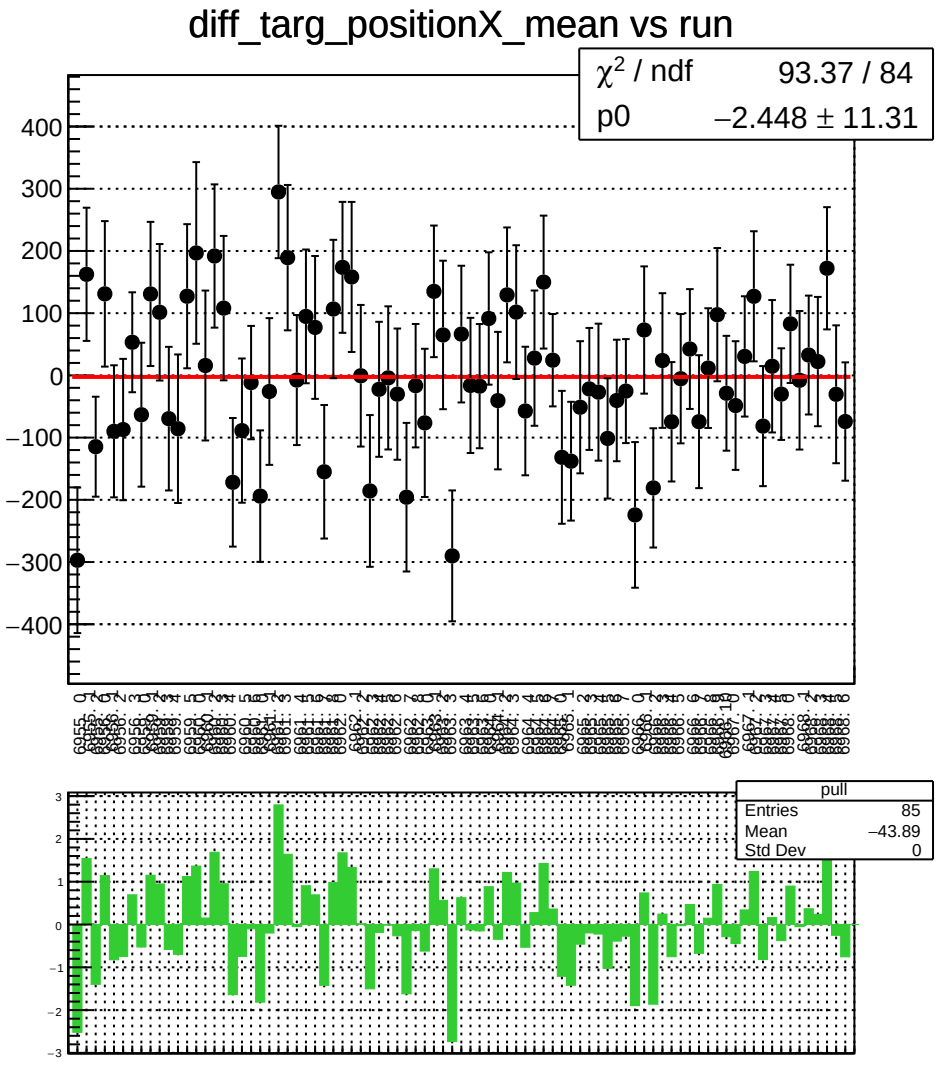

pull1D
Entries 85
Mean −0.006516
Std Dev 0.9875

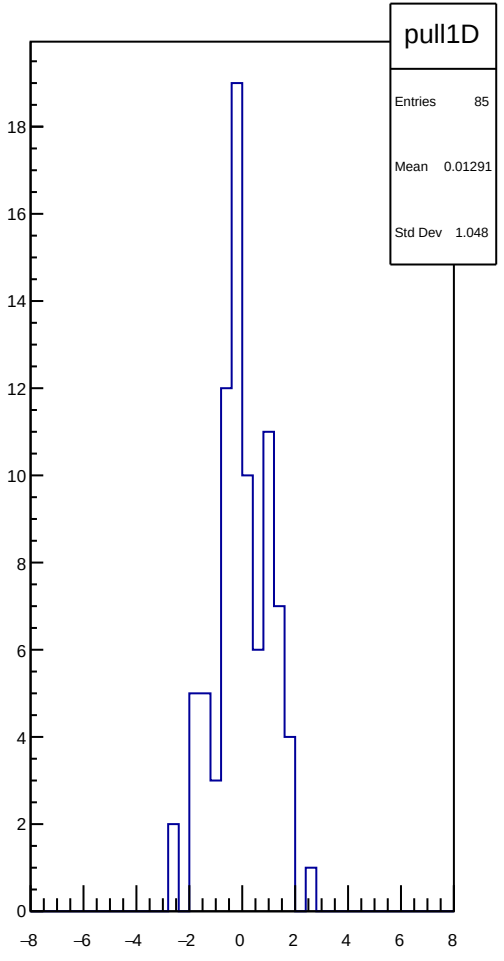

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 2394 / 84
p0 979 ± 0.7644
1040
1020
1000
980
960
940
920
900
880
860

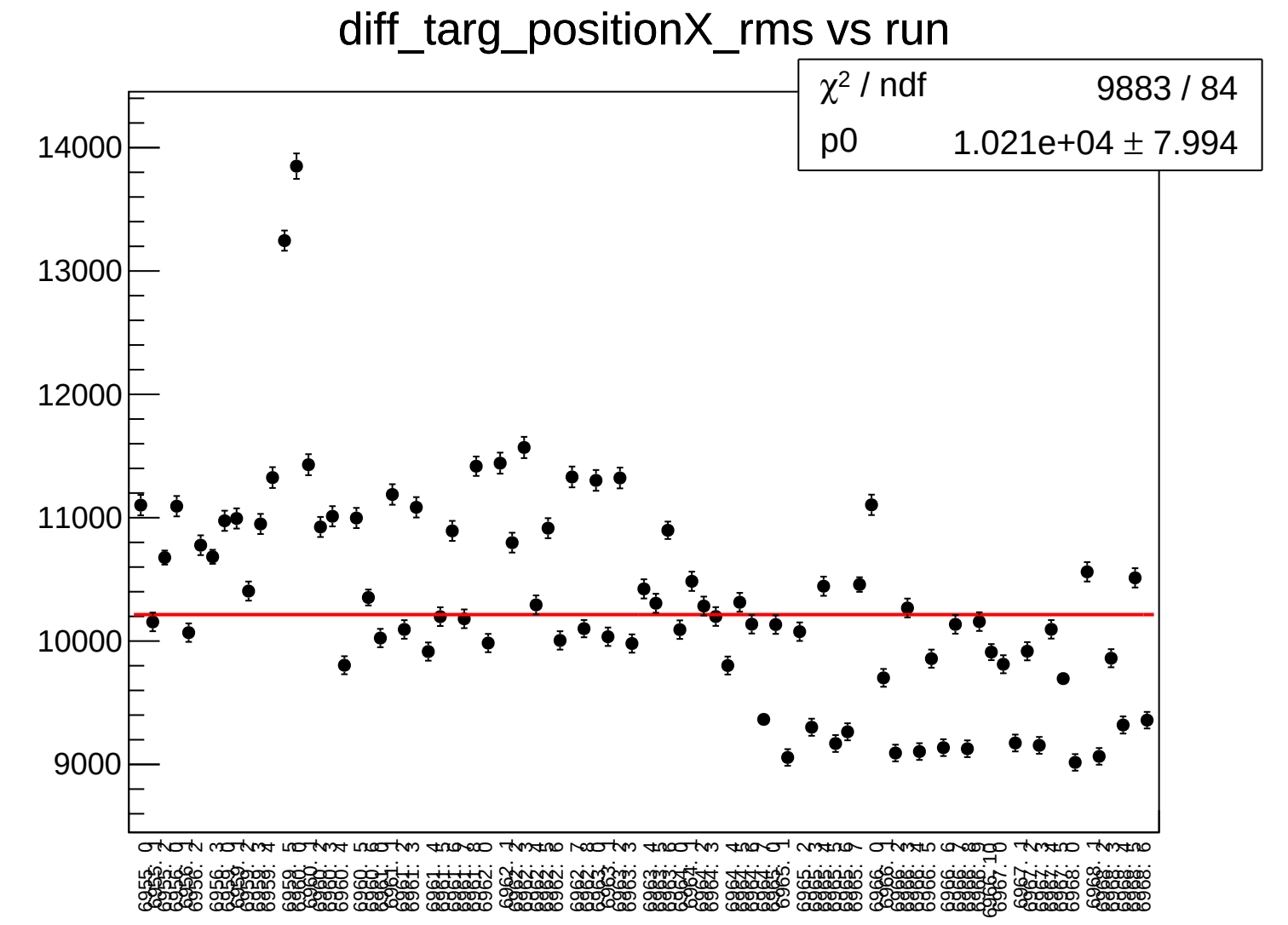

diff_dispE_bpm12X_mean vs run
χ² / ndf 100.4 / 84
p0 −0.003473 ± 0.01101
pull
Entries 85
Mean 40.71
Std Dev 62.63

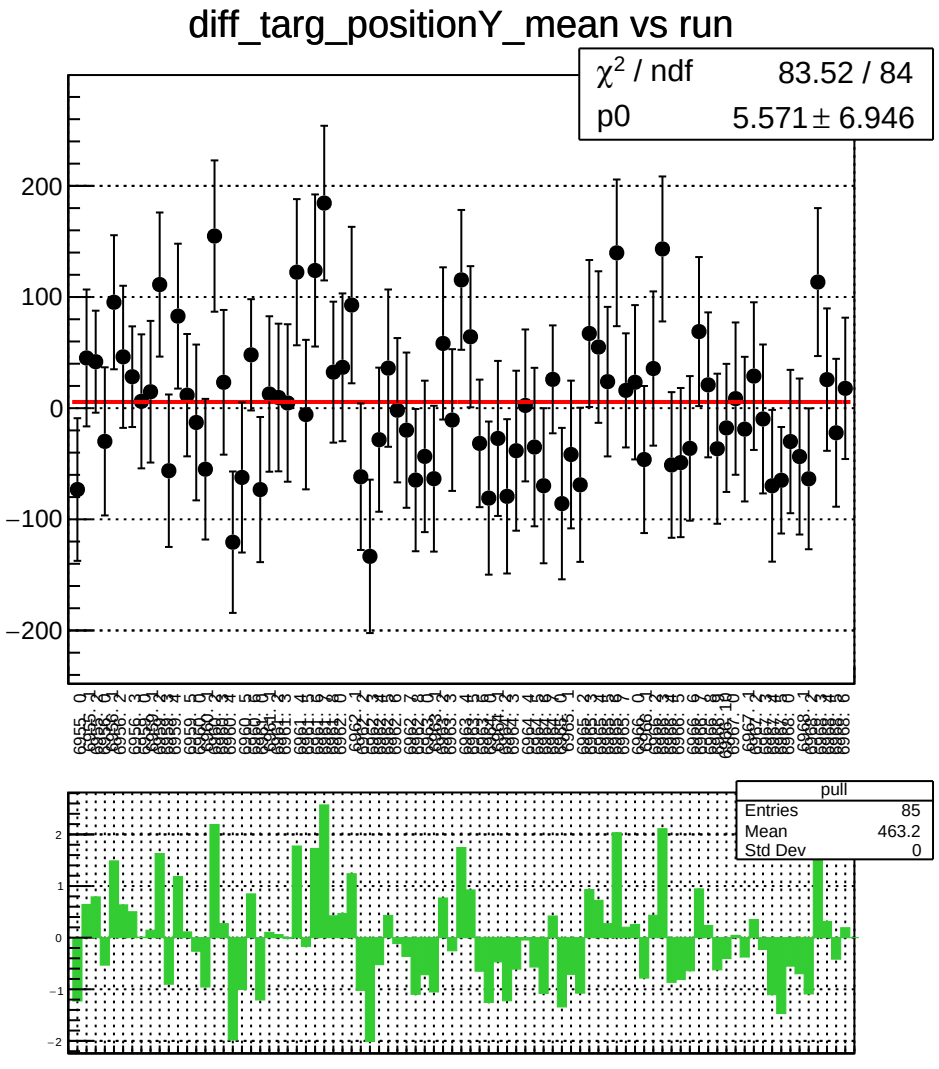

pull1D
Entries 85
Mean −0.01241
Std Dev 1.087

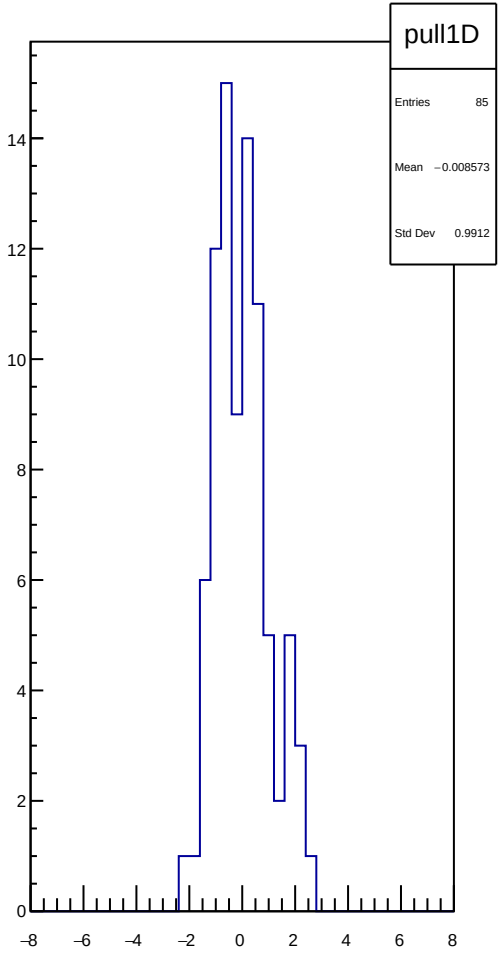

diff_dispE_bpm12X_rms vs run
χ² / ndf 1.191e+04 / 84
p0 9.942 ± 0.007786
12.5
12
11.5
11
10.5
10
9.5
9
8.5
8

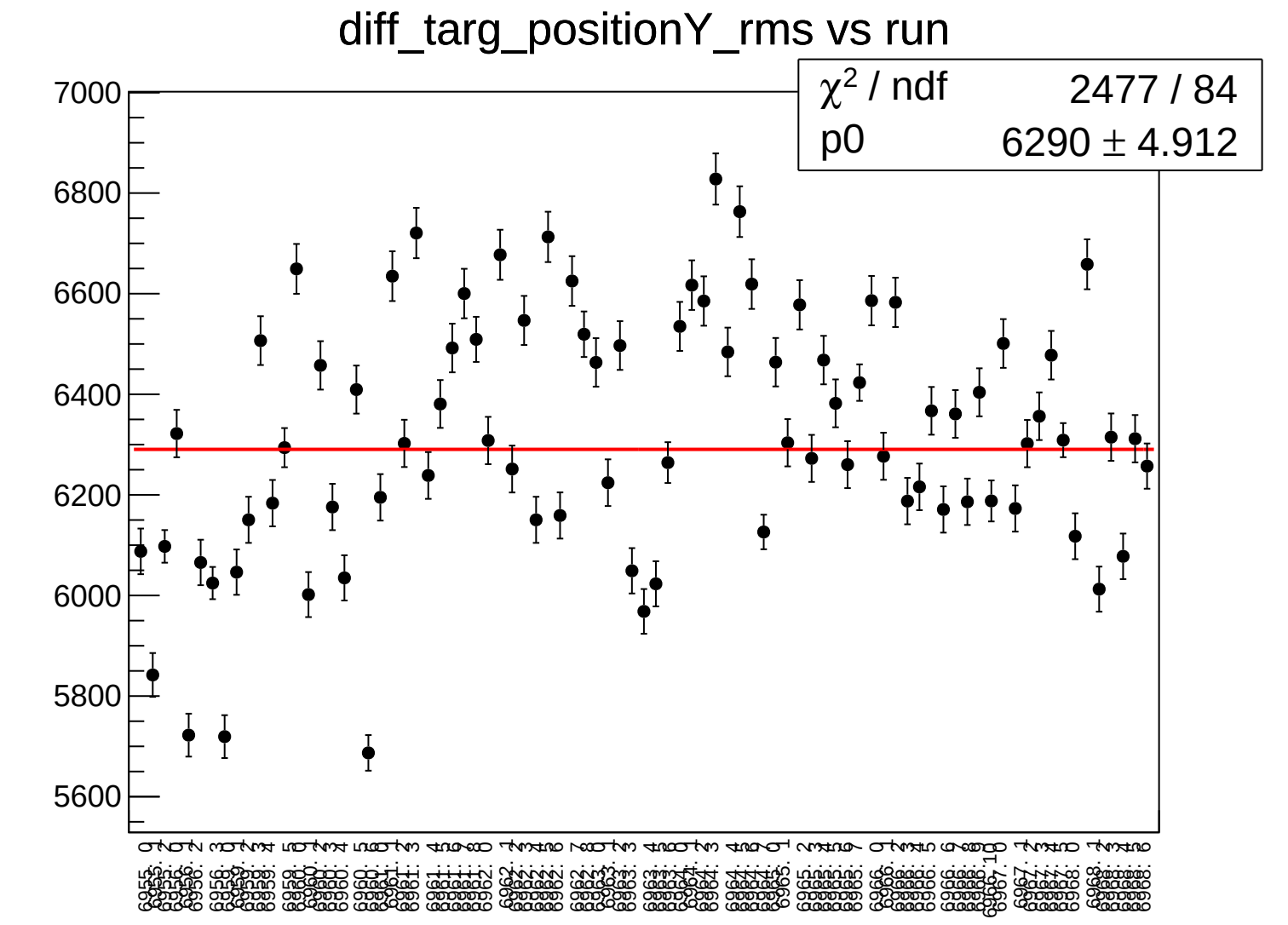

diff_targ_positionX_mean vs run
χ² / ndf 93.37 / 84
p0 −2.448 ± 11.31
pull
Entries 85
Mean −43.89
Std Dev 0

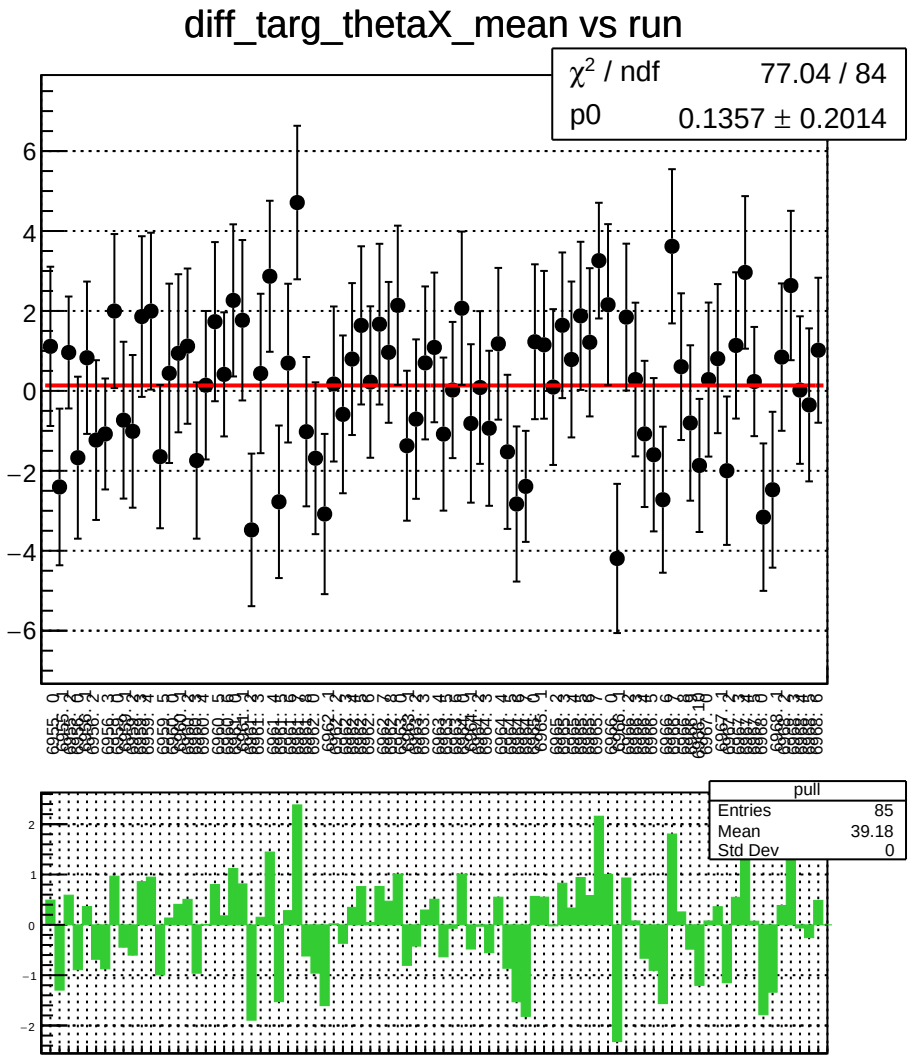

pull1D
Entries 85
Mean 0.01291
Std Dev 1.048

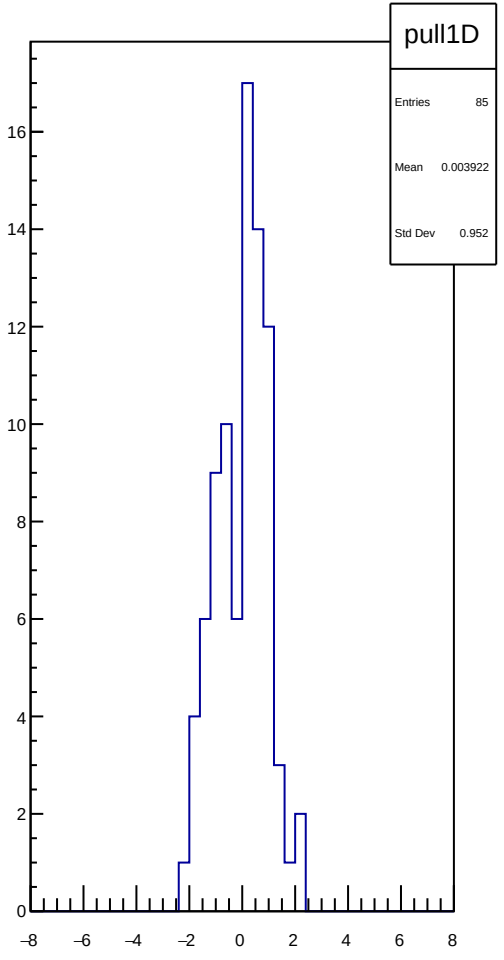

diff_targ_positionX_rms vs run
$\chi^2$ / ndf 9883 / 84
p0 1.021e+04 ± 7.994
14000
13000
12000
11000
10000
9000

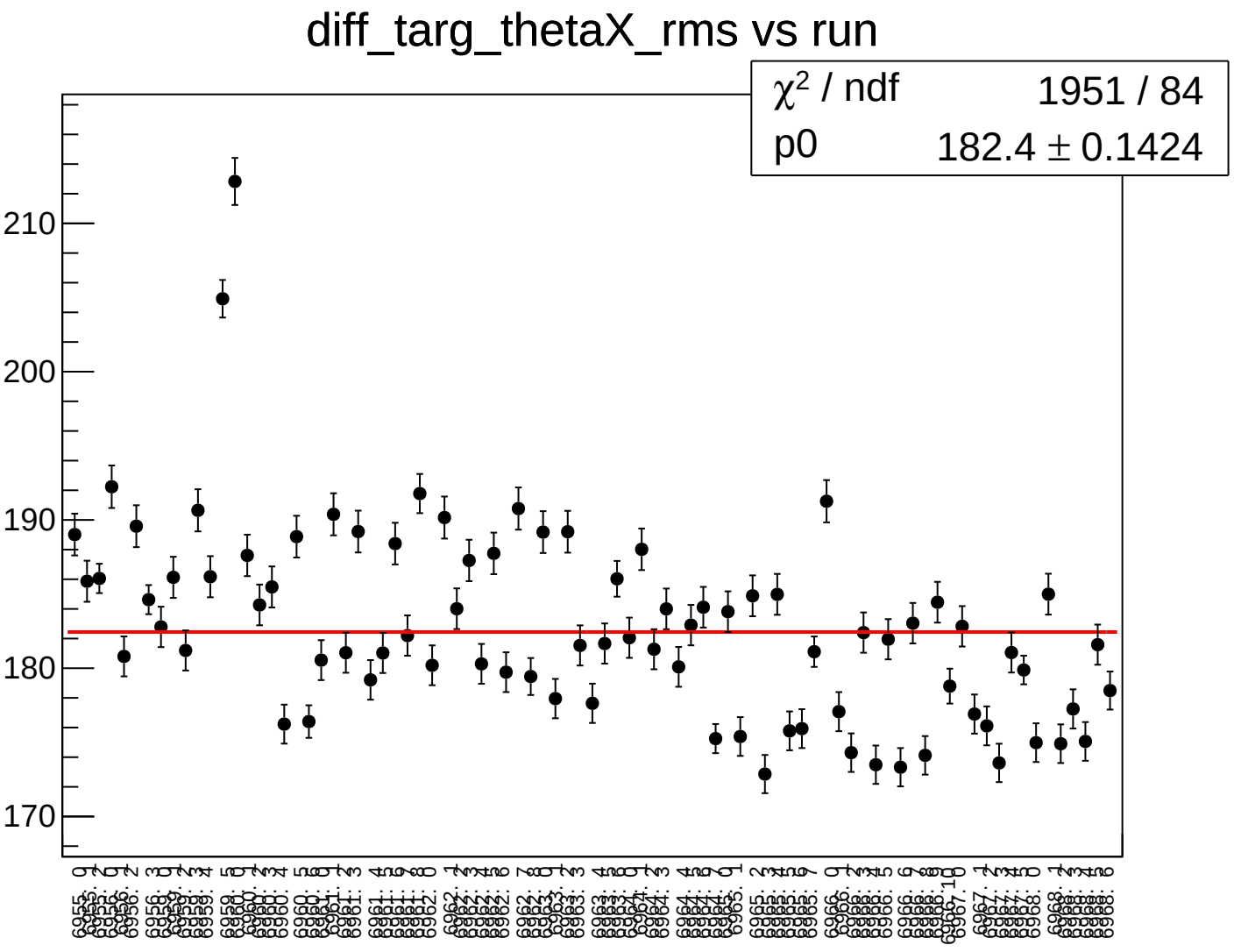

diff_targ_positionY_mean vs run
χ² / ndf 83.52 / 84
p0 5.571 ± 6.946
200
100
0
−100
−200
pull
Entries 85
Mean 463.2
Std Dev 0
2
1
0
−1
−2

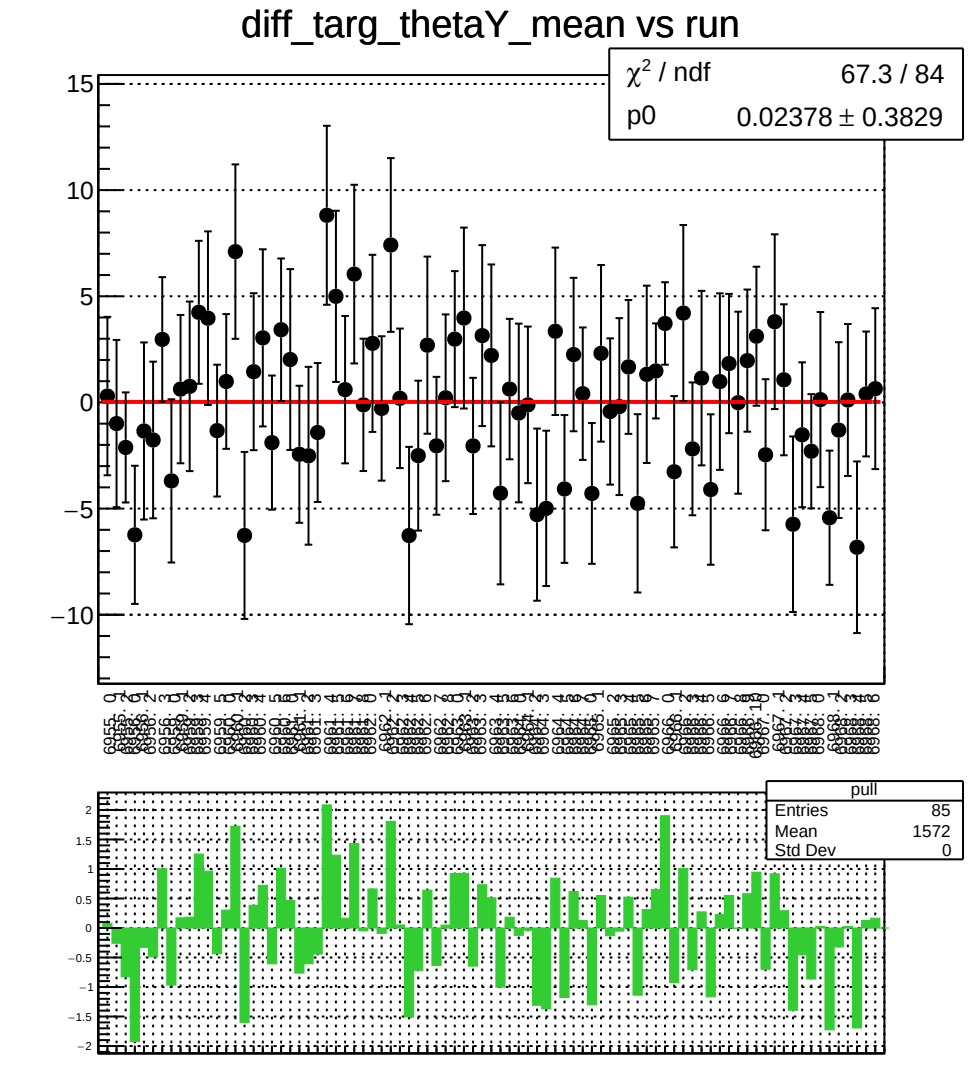

pull1D
Entries 85
Mean −0.008573
Std Dev 0.9912
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

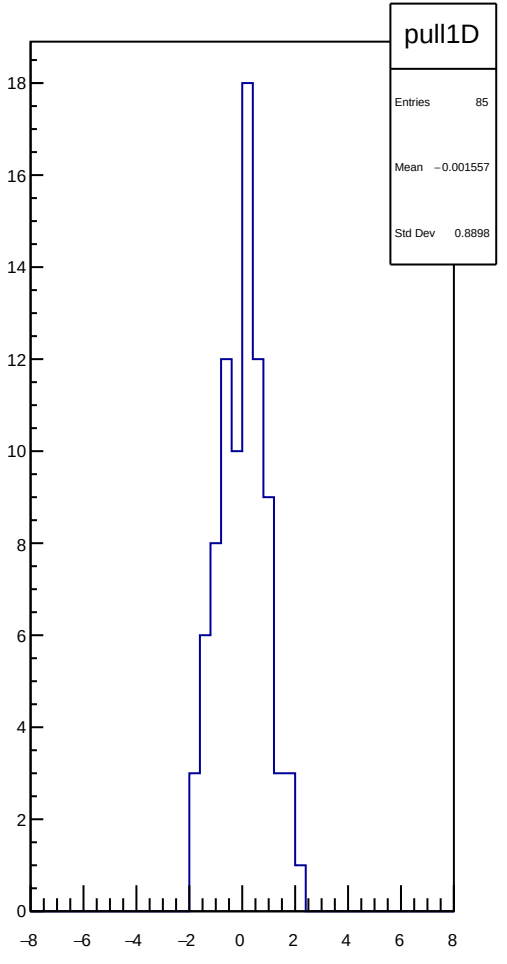

diff_targ_positionY_rms vs run
$\chi^2$ / ndf 2477 / 84
p0 6290 ± 4.912
7000
6800
6600
6400
6200
6000
5800
5600

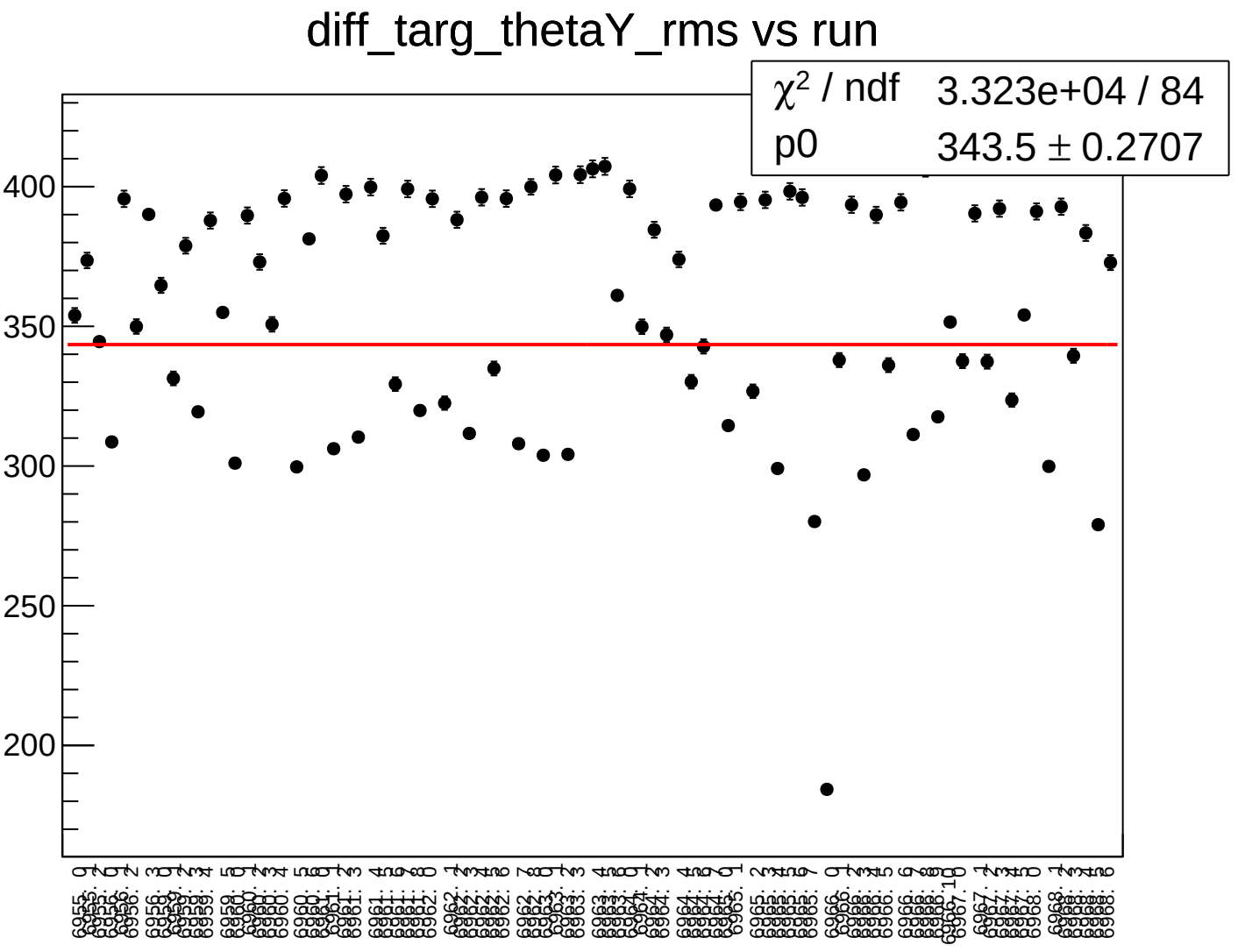

diff_targ_thetaX_mean vs run
χ² / ndf 77.04 / 84
p0 0.1357 ± 0.2014
pull
Entries 85
Mean 39.18
Std Dev 0

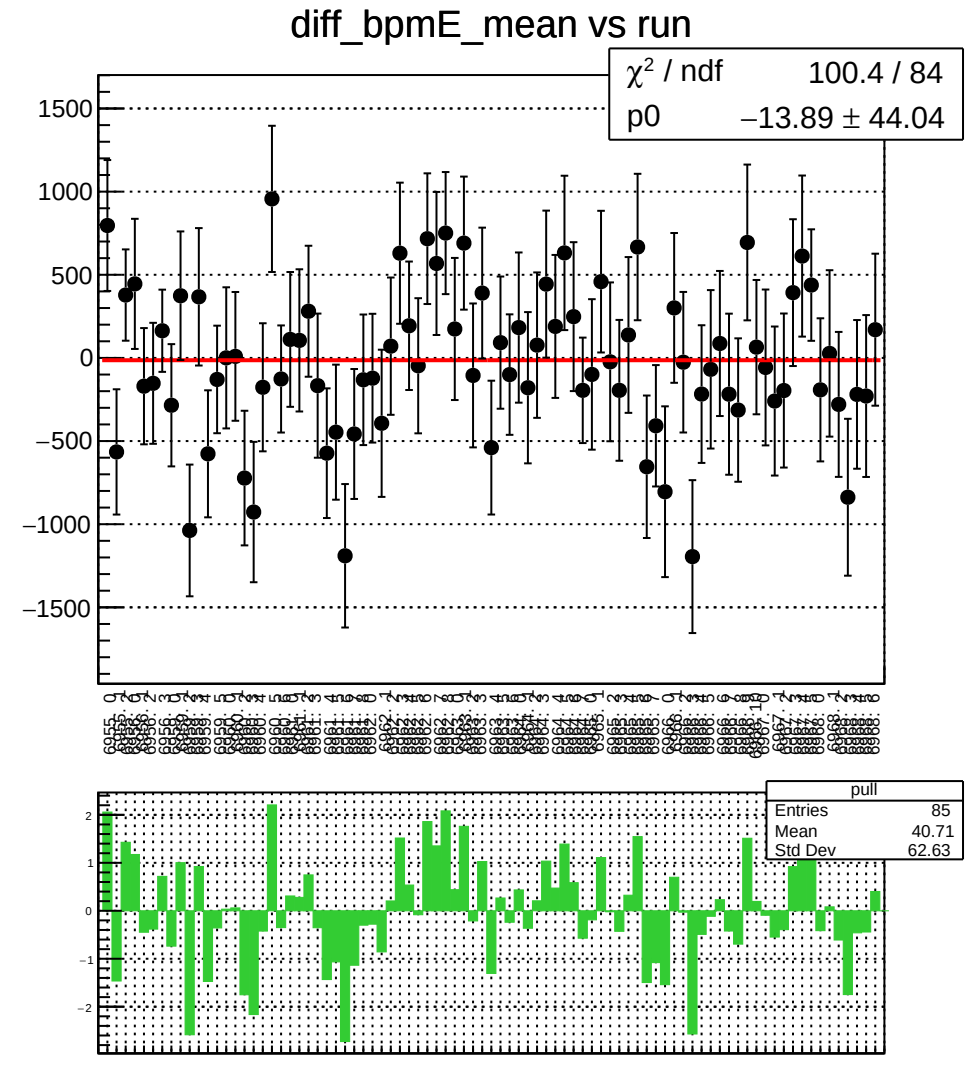

pull1D
Entries 85
Mean 0.003922
Std Dev 0.952

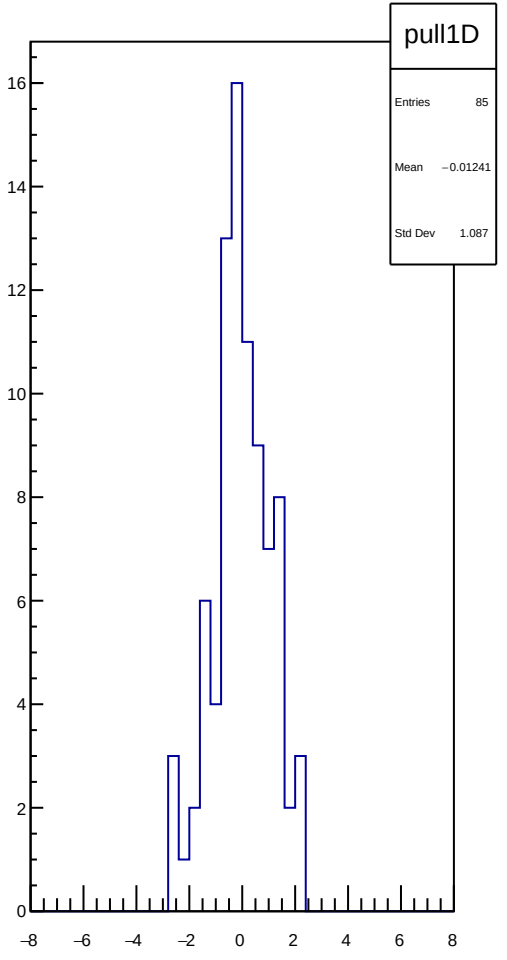

diff_targ_thetaX_rms vs run
χ² / ndf 1951 / 84
p0 182.4 ± 0.1424
210
200
190
180
170

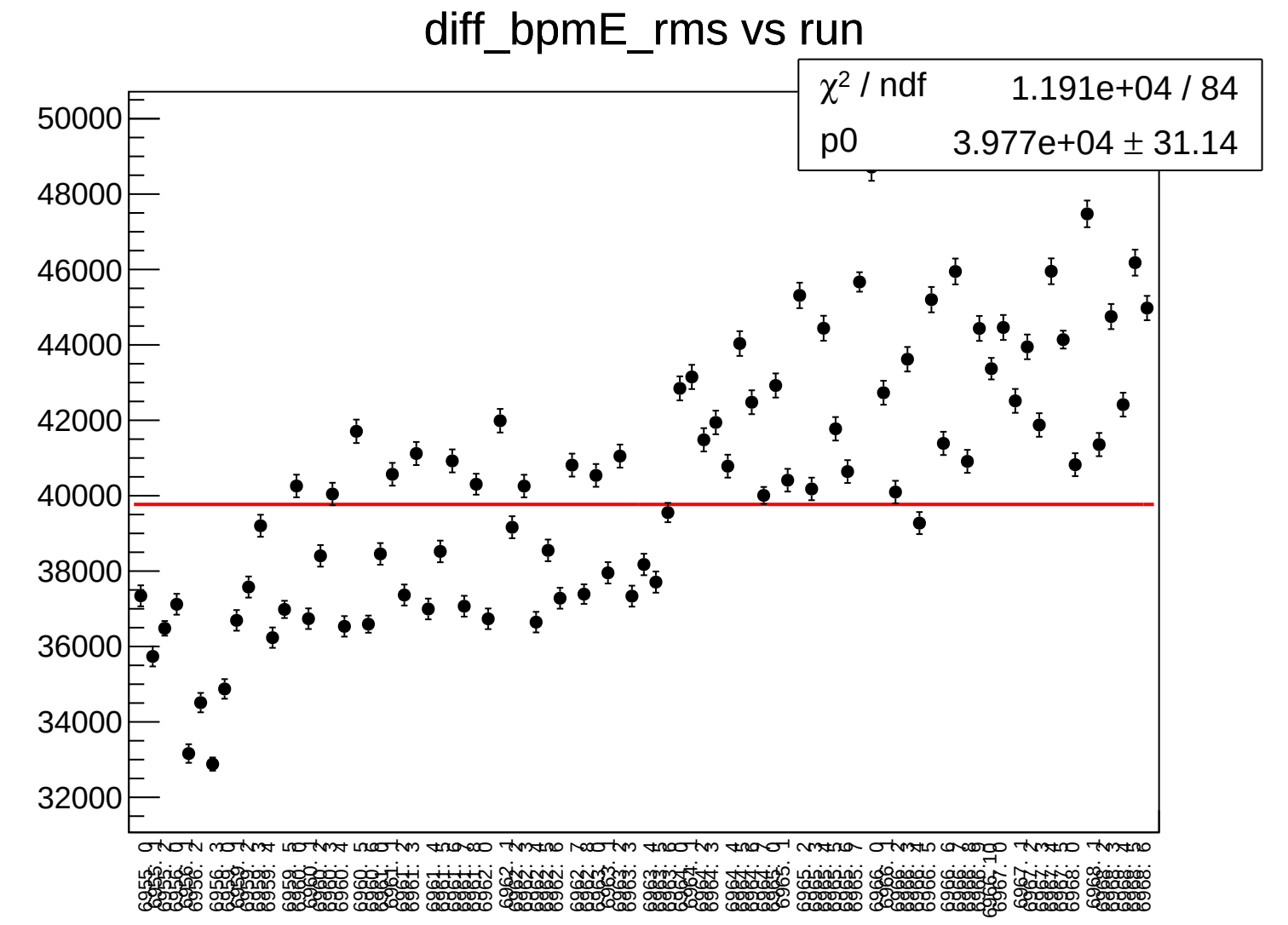

diff_targ_thetaY_mean vs run
χ² / ndf 67.3 / 84
p0 0.02378 ± 0.3829
pull
Entries 85
Mean 1572
Std Dev 0

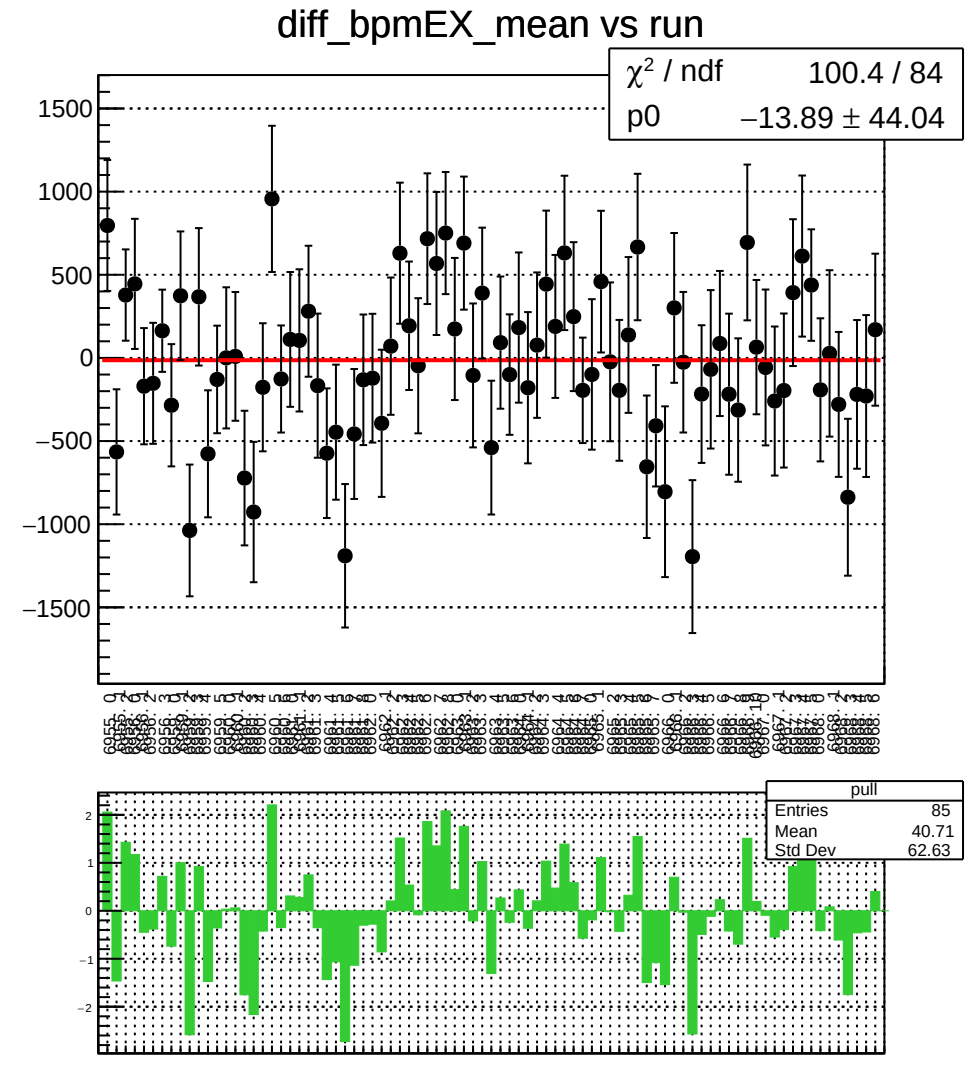

pull1D
Entries 85
Mean −0.001557
Std Dev 0.8898

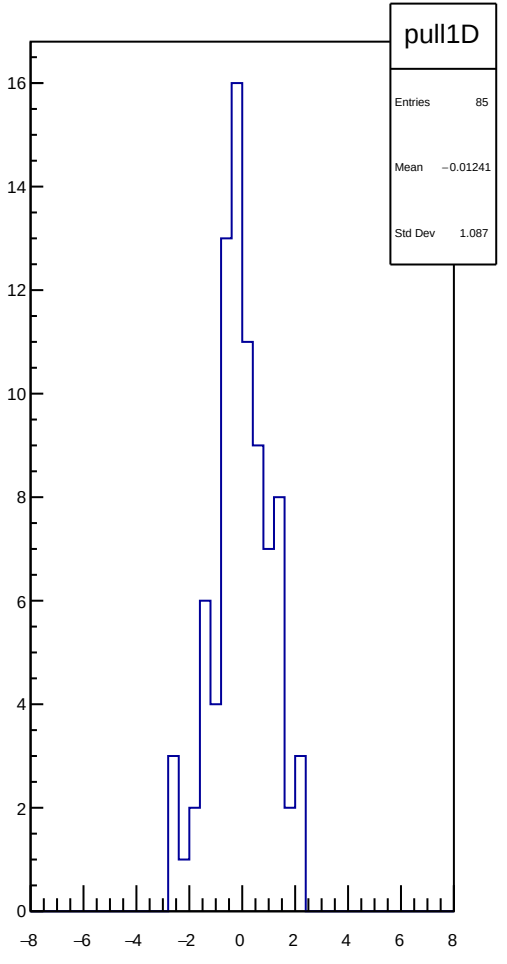

diff_targ_thetaY_rms vs run
χ² / ndf 3.323e+04 / 84
p0 343.5 ± 0.2707
400
350
300
250
200

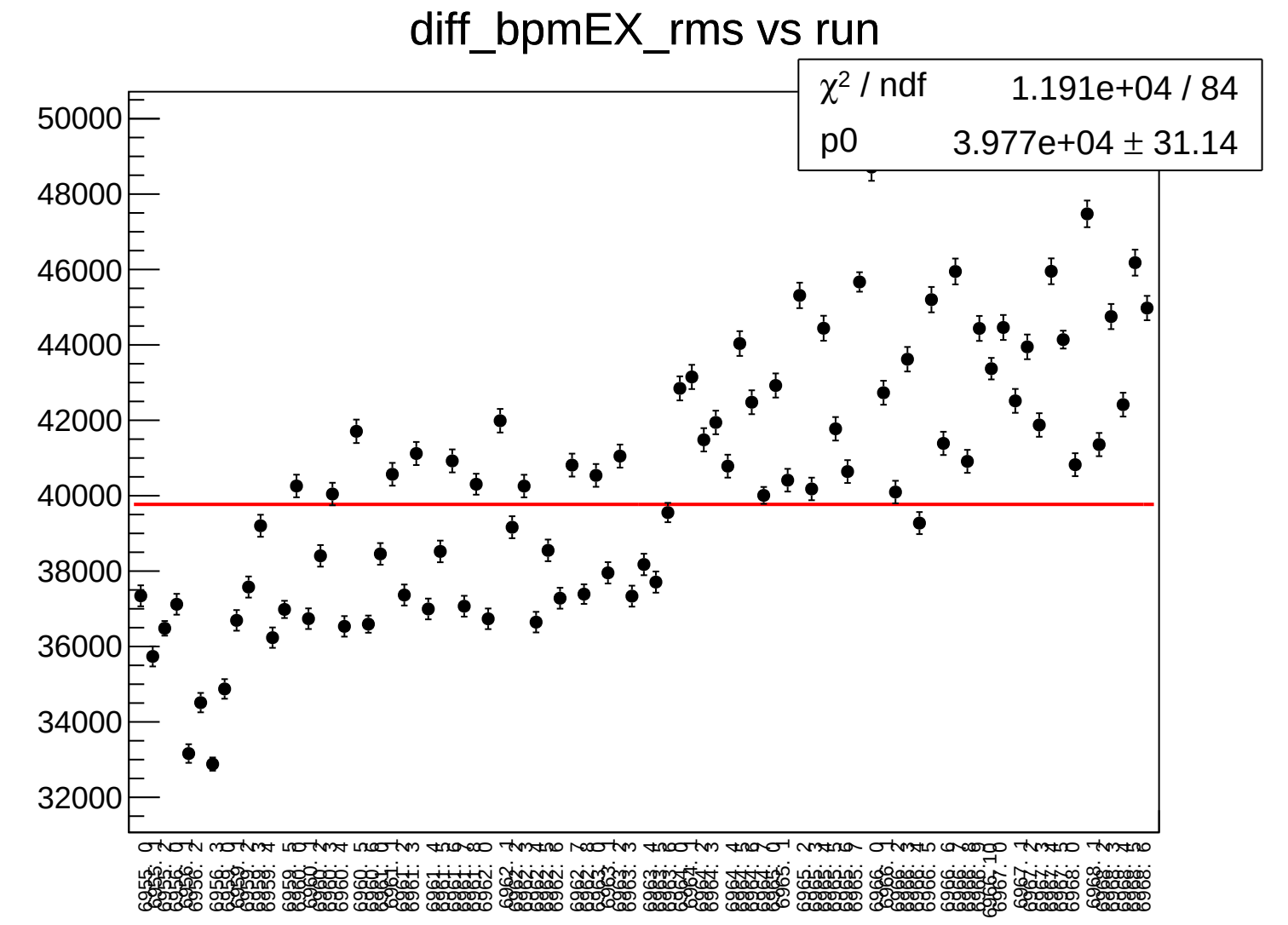

diff_bpmE_mean vs run
χ² / ndf 100.4 / 84
p0 −13.89 ± 44.04
pull
Entries 85
Mean 40.71
Std Dev 62.63

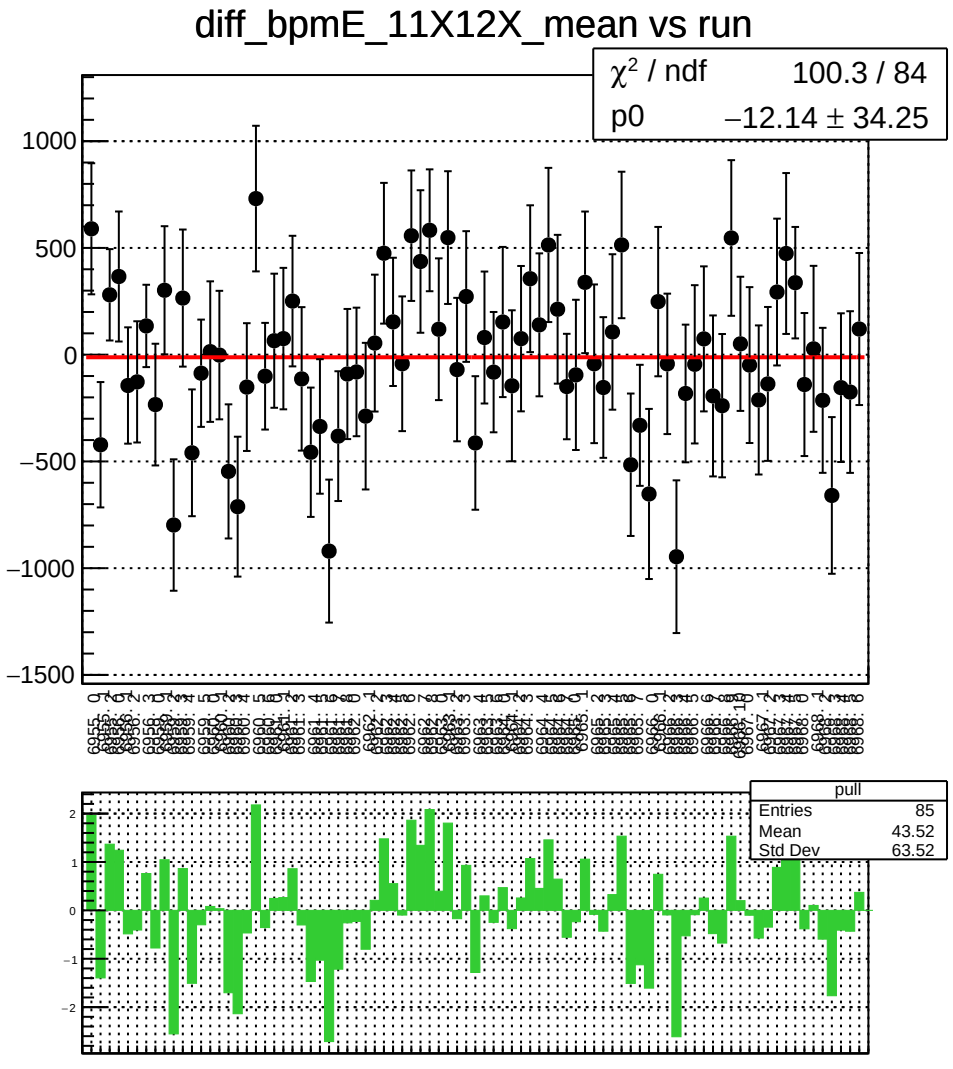

pull1D
Entries 85
Mean −0.01241
Std Dev 1.087

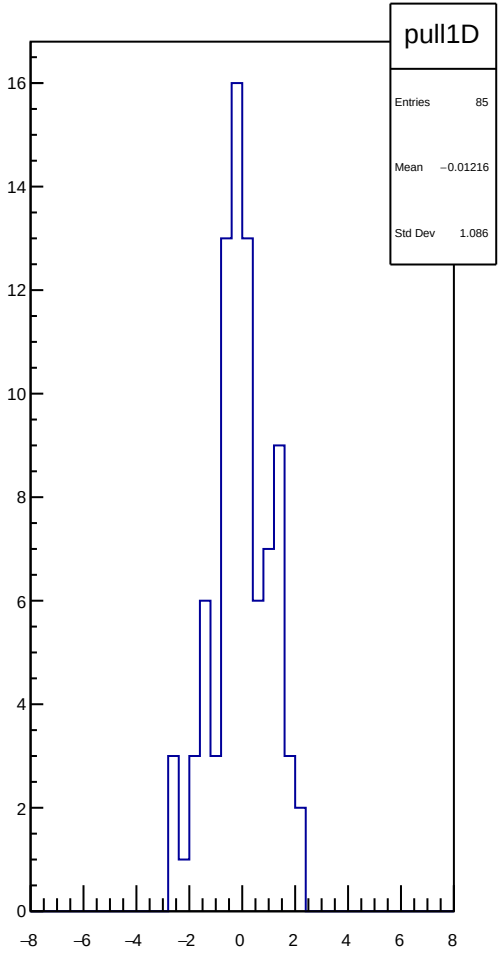

diff_bpmE_rms vs run
χ² / ndf 1.191e+04 / 84
p0 3.977e+04 ± 31.14
50000
48000
46000
44000
42000
40000
38000
36000
34000
32000

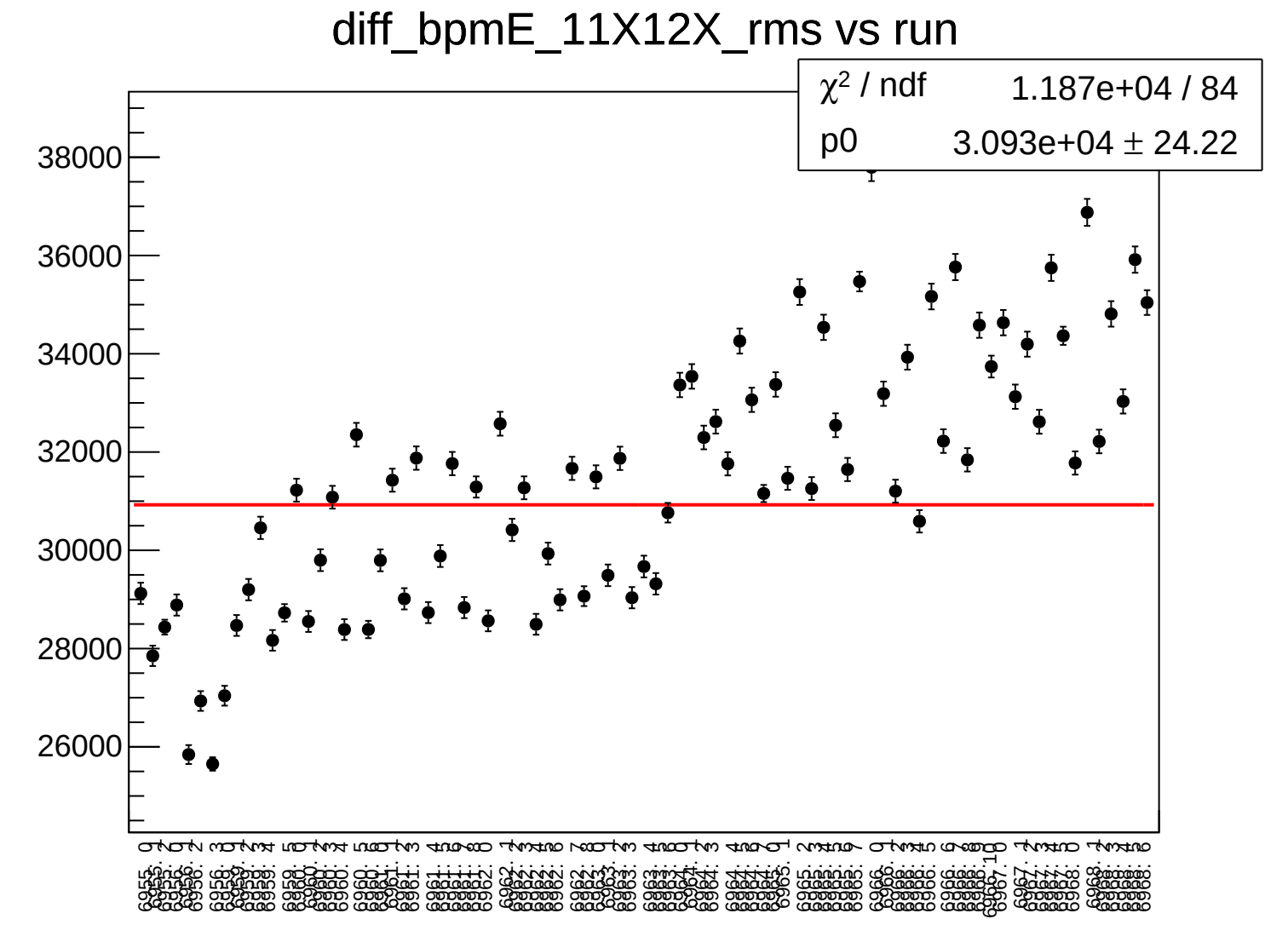

diff_bpmEX_mean vs run
χ² / ndf 100.4 / 84
p0 −13.89 ± 44.04
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 40.71
Std Dev 62.63
2
1
0
−1
−2

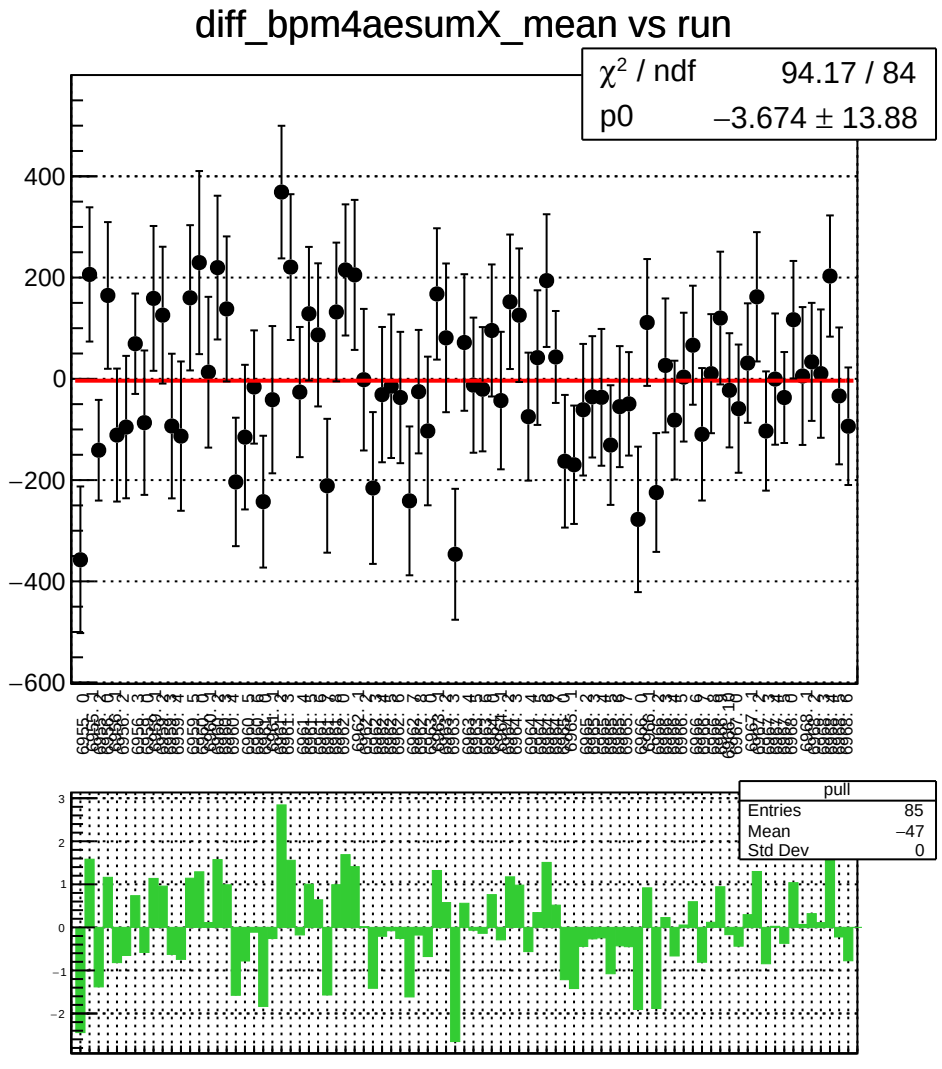

pull1D
Entries 85
Mean −0.01241
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

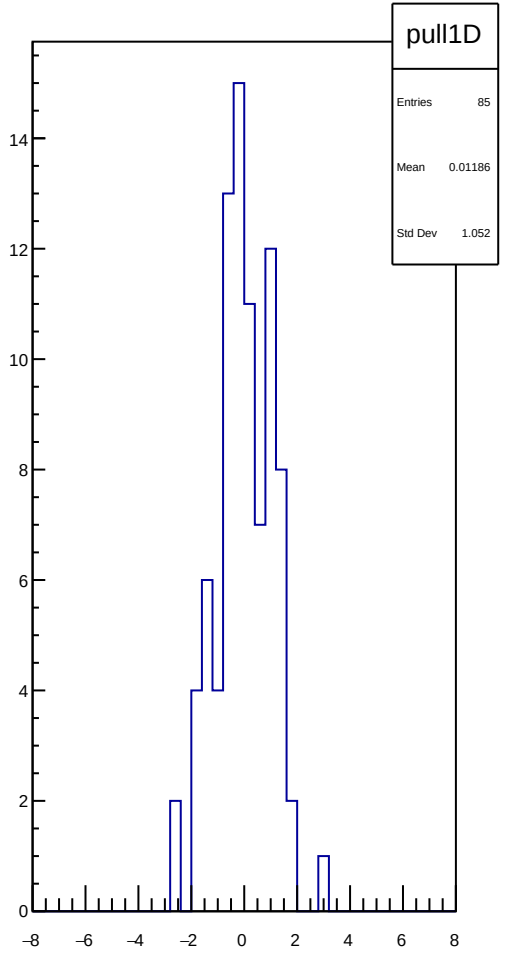

diff_bpmEX_rms vs run
χ² / ndf 1.191e+04 / 84
p0 3.977e+04 ± 31.14
50000
48000
46000
44000
42000
40000
38000
36000
34000
32000

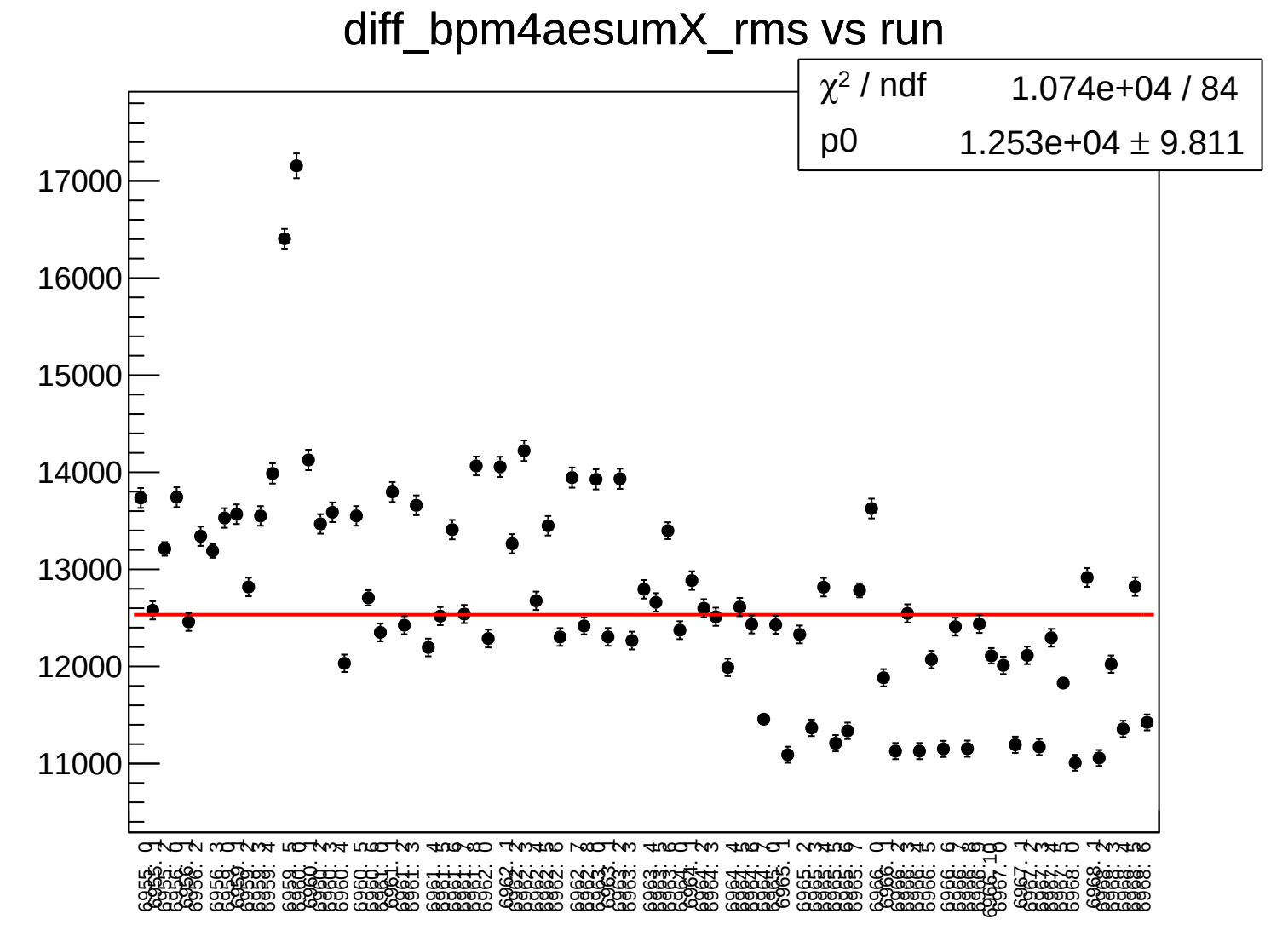

diff_bpmE_11X12X_mean vs run
χ² / ndf 100.3 / 84
p0 −12.14 ± 34.25
pull
Entries 85
Mean 43.52
Std Dev 63.52

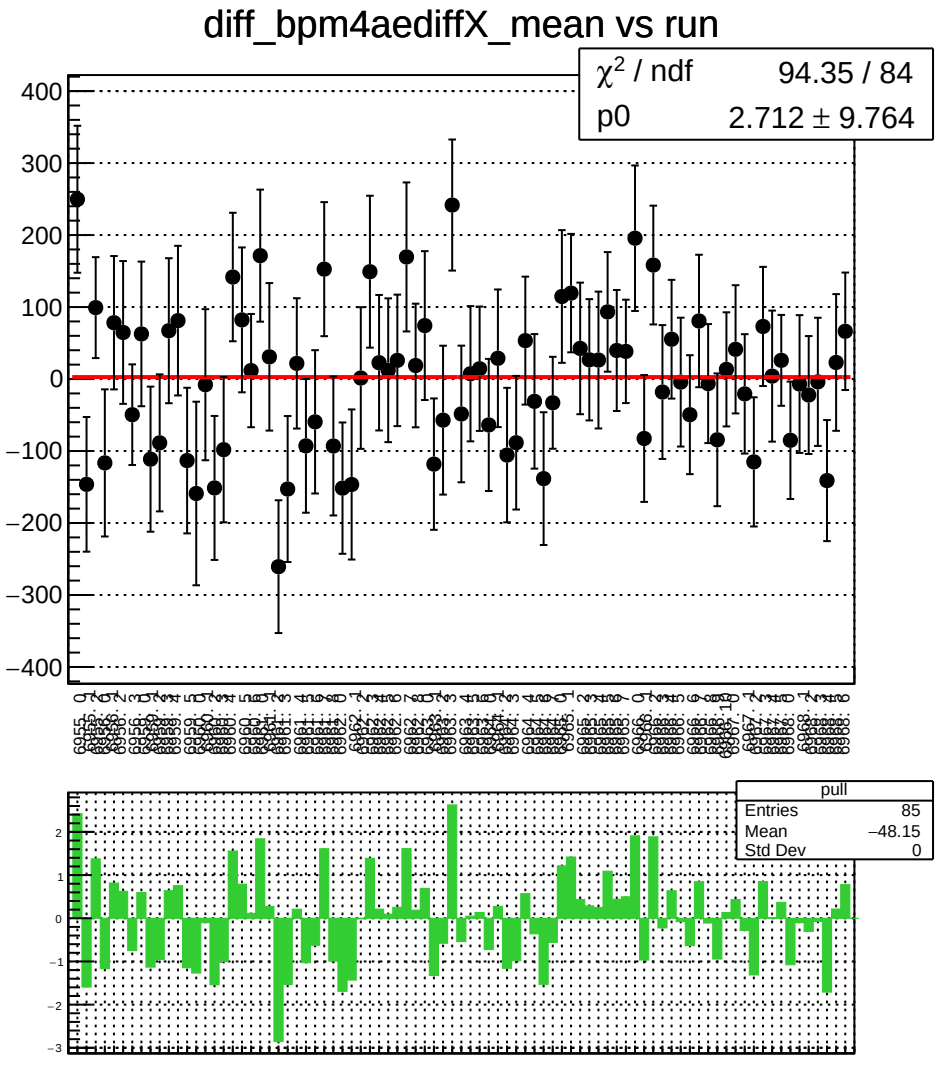

pull1D
Entries 85
Mean −0.01216
Std Dev 1.086

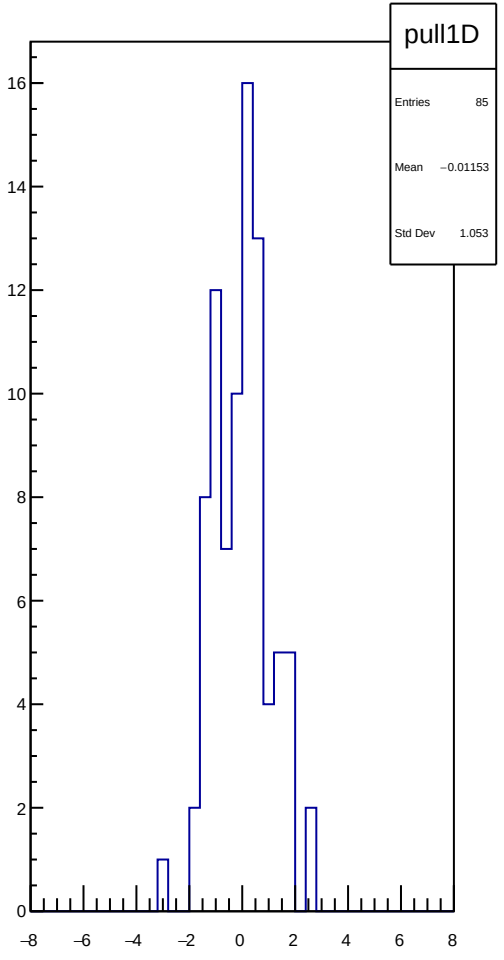

diff_bpmE_11X12X_rms vs run
χ² / ndf 1.187e+04 / 84
p0 3.093e+04 ± 24.22
38000
36000
34000
32000
30000
28000
26000

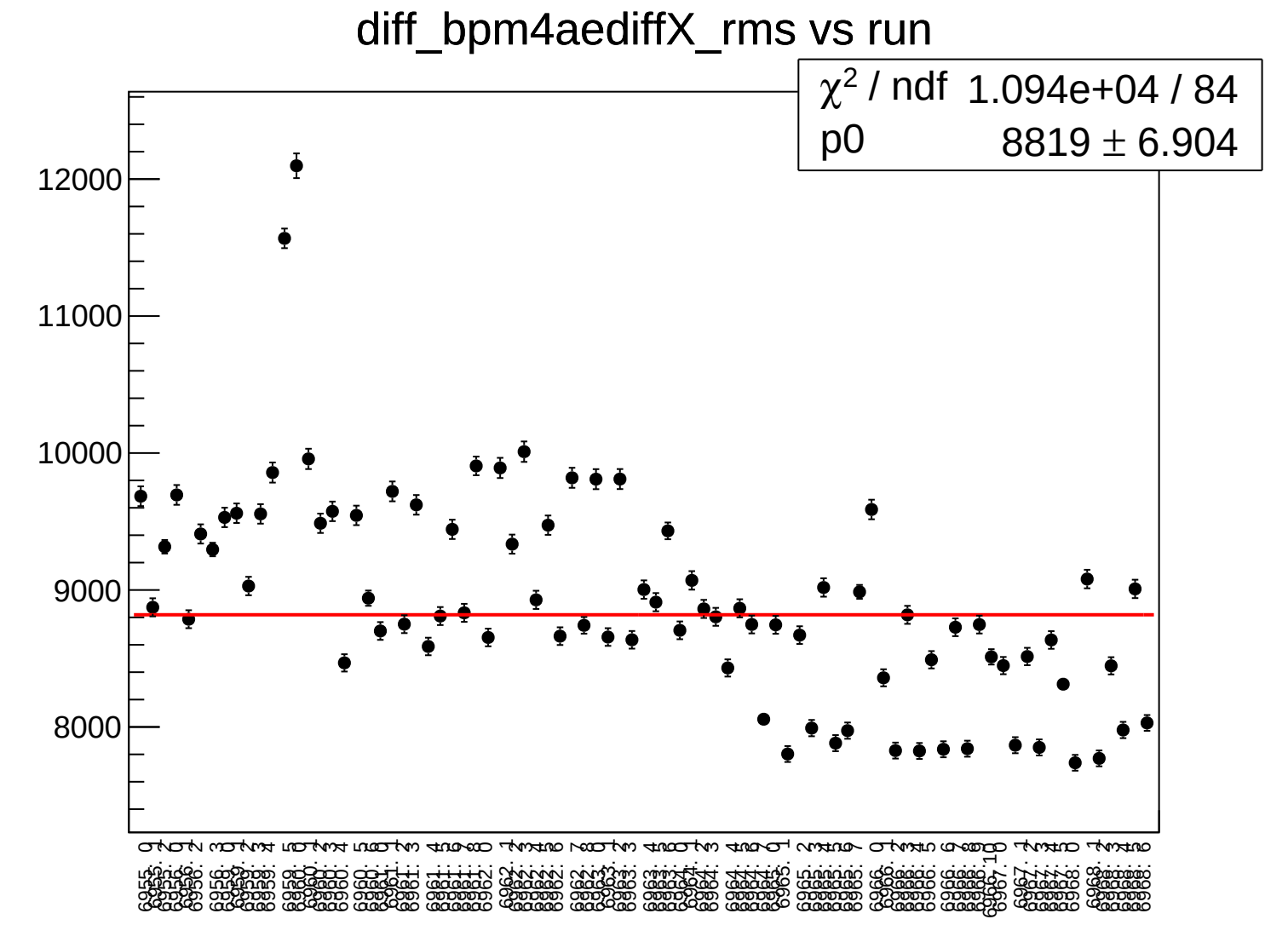

diff_bpm4aesumX_mean vs run
χ² / ndf 94.17 / 84
p0 −3.674 ± 13.88
400
200
0
−200
−400
−600
pull
Entries 85
Mean −47
Std Dev 0
3
2
1
0
−1
−2

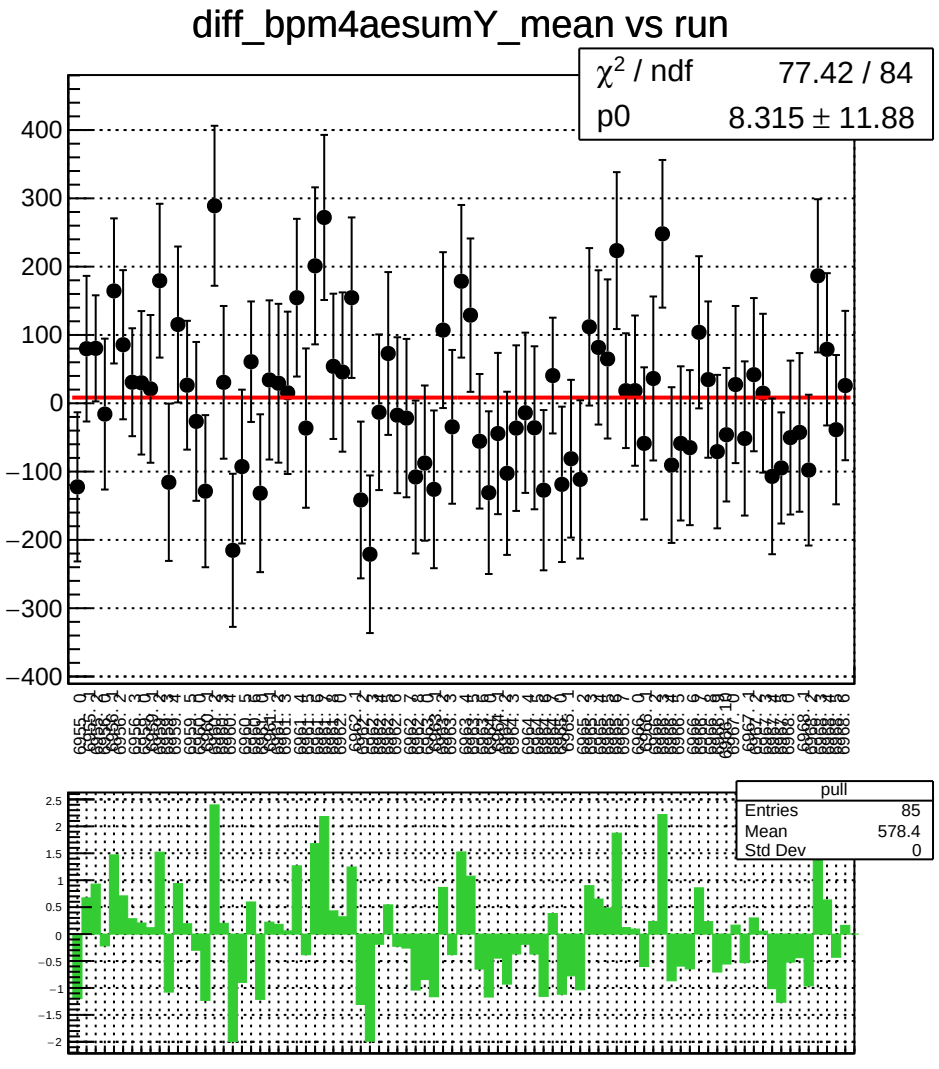

pull1D
Entries 85
Mean 0.01186
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

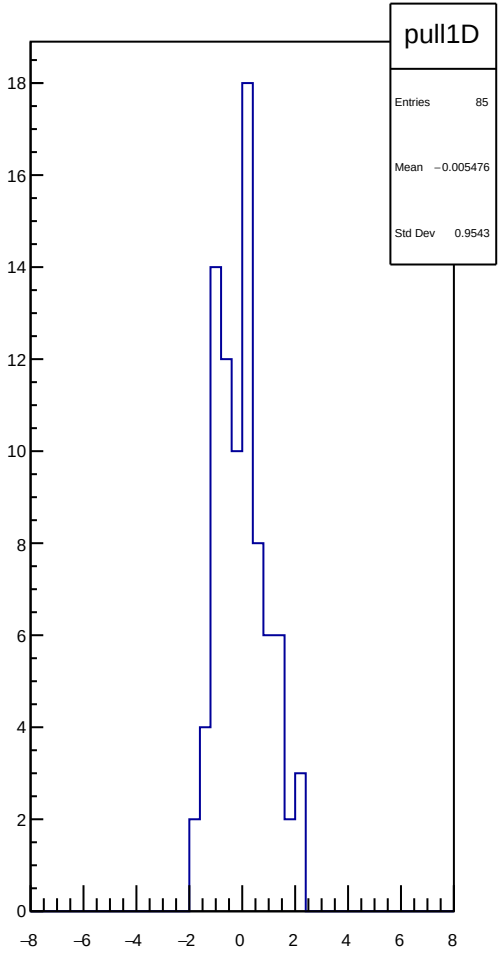

diff_bpm4aesumX_rms vs run
χ² / ndf 1.074e+04 / 84
p0 1.253e+04 ± 9.811
17000
16000
15000
14000
13000
12000
11000

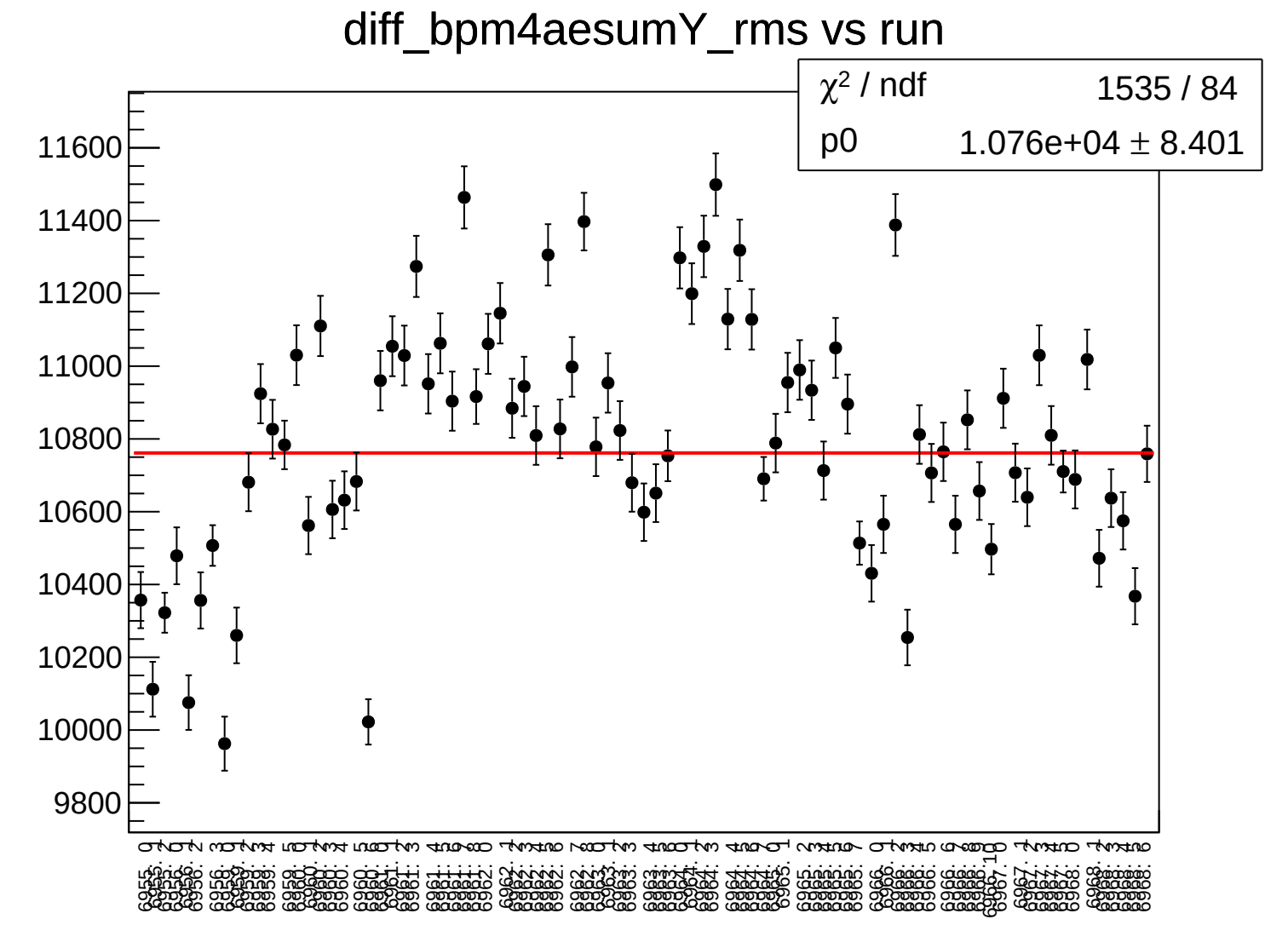

diff_bpm4aediffX_mean vs run
χ² / ndf 94.35 / 84
p0 2.712 ± 9.764
pull
Entries 85
Mean −48.15
Std Dev 0

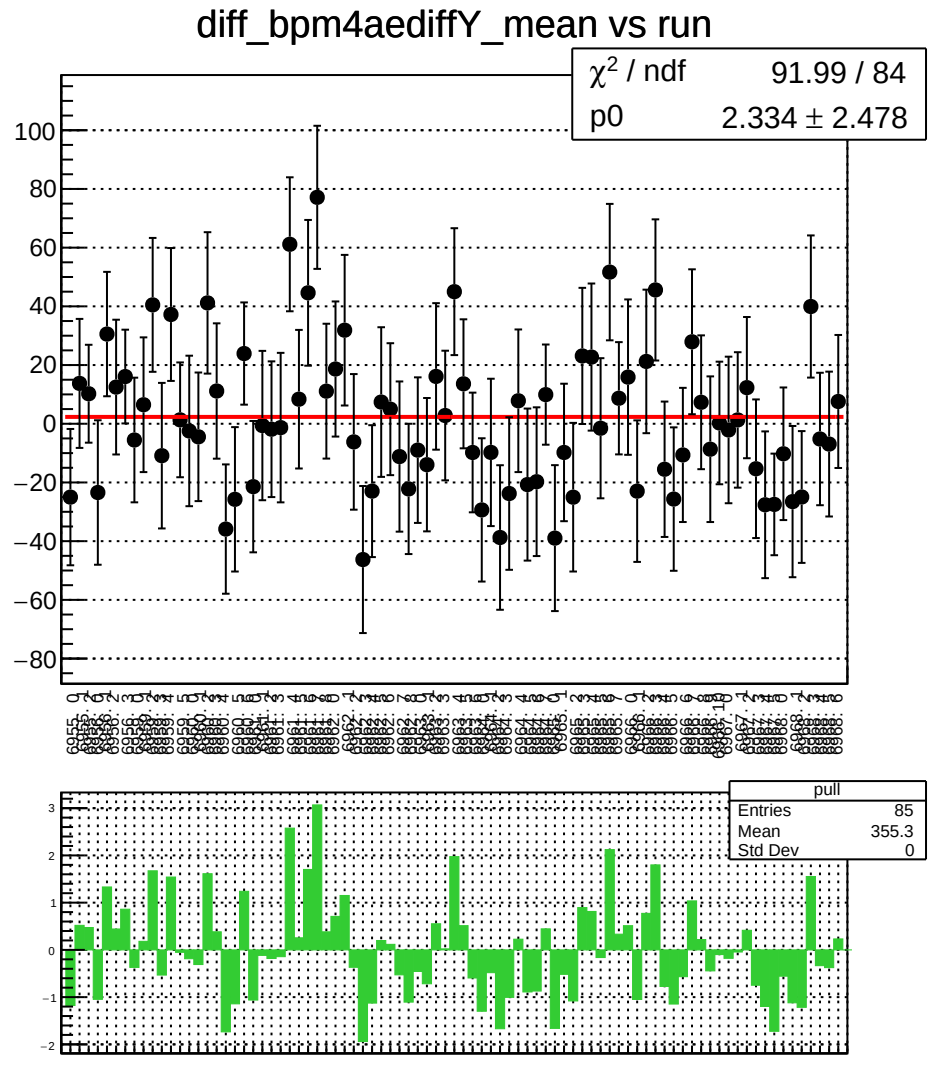

pull1D
Entries 85
Mean −0.01153
Std Dev 1.053

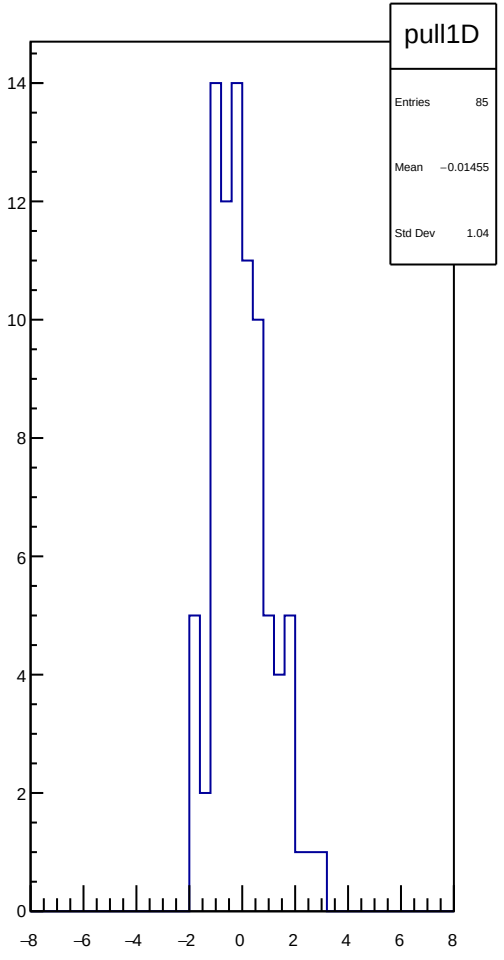

diff_bpm4aediffX_rms vs run
χ² / ndf 1.094e+04 / 84
p0 8819 ± 6.904
12000
11000
10000
9000
8000

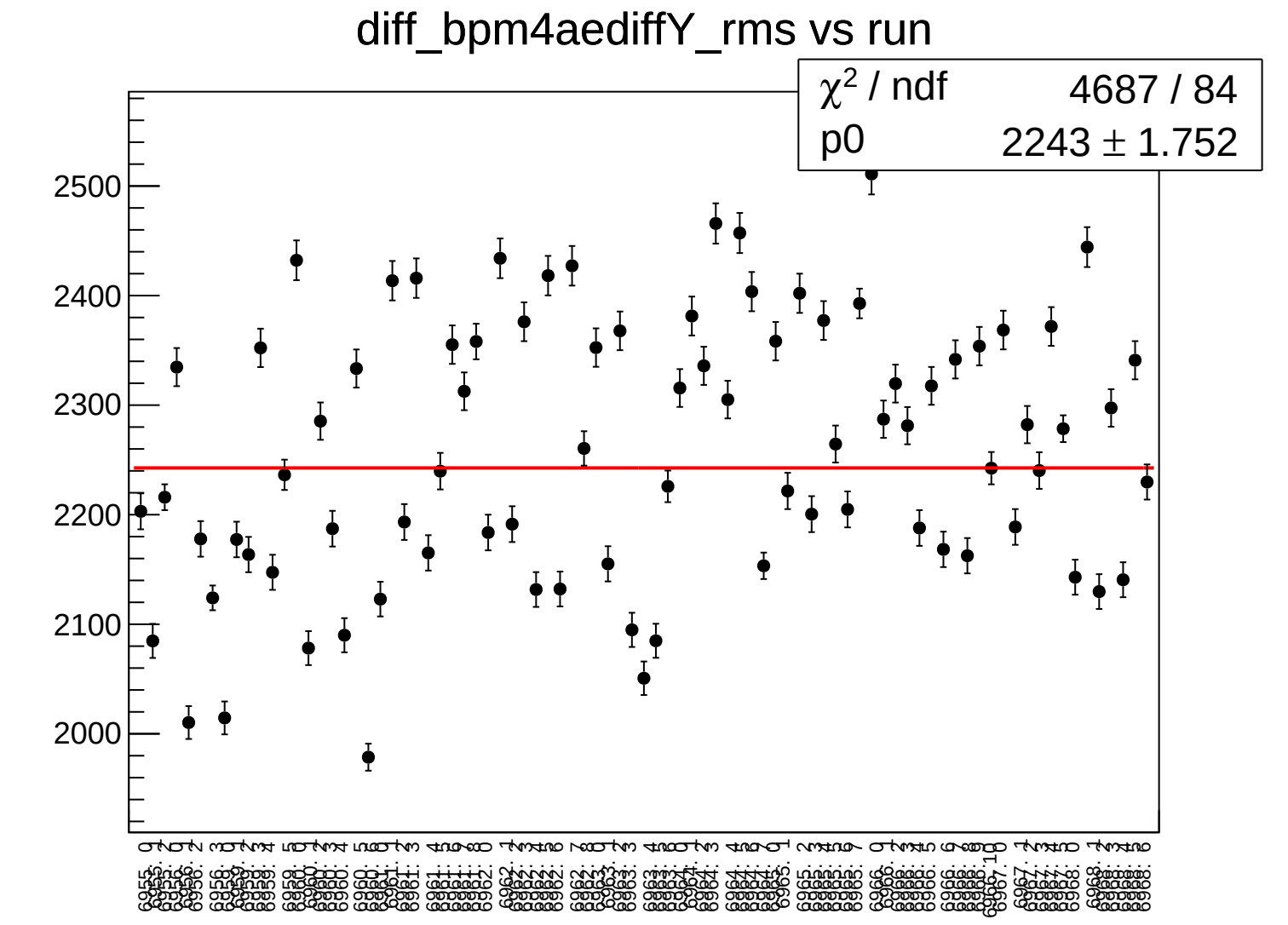

diff_bpm4aesumY_mean vs run
χ² / ndf 77.42 / 84
p0 8.315 ± 11.88
pull
Entries 85
Mean 578.4
Std Dev 0

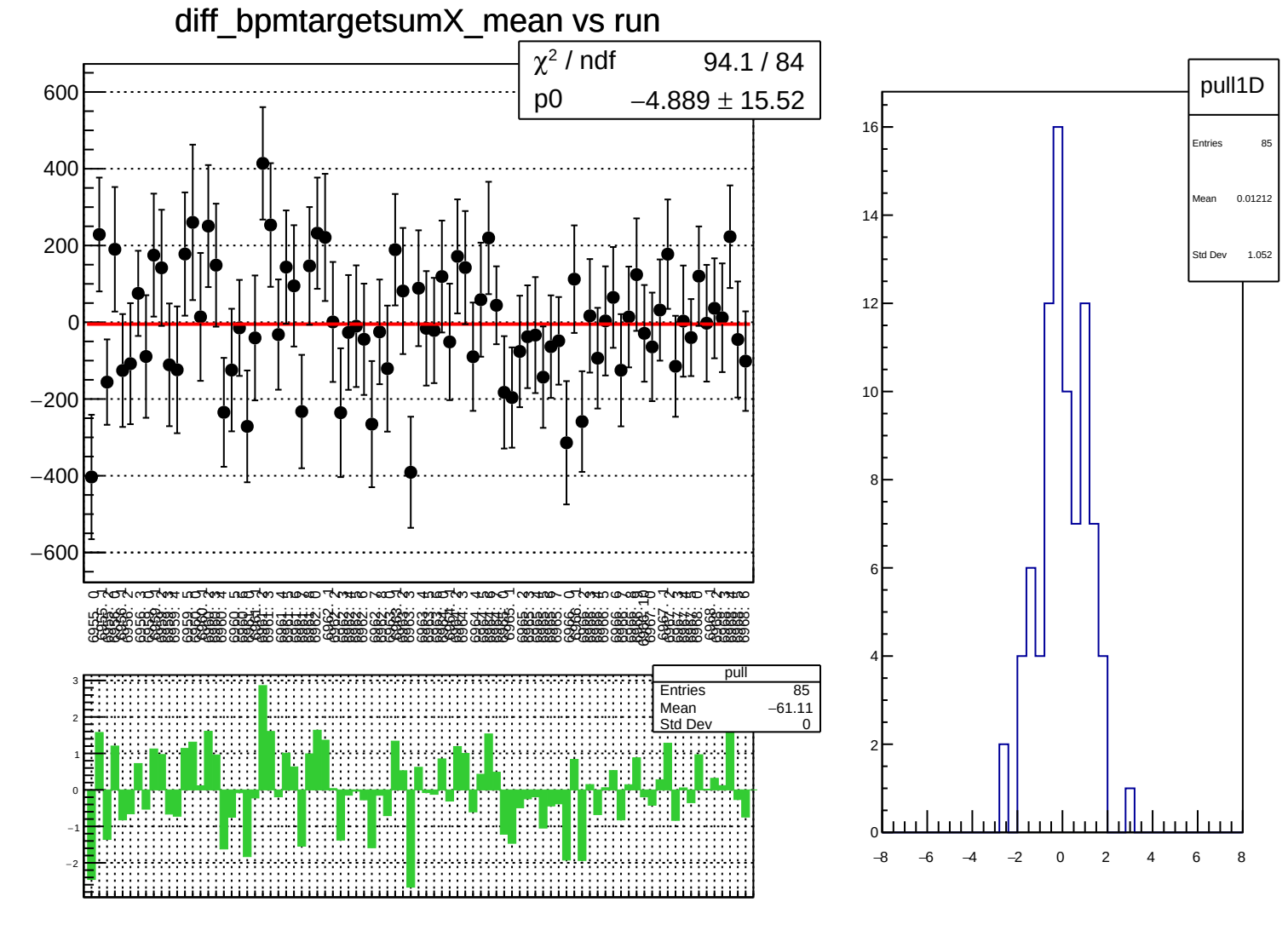

pull1D
Entries 85
Mean −0.005476
Std Dev 0.9543

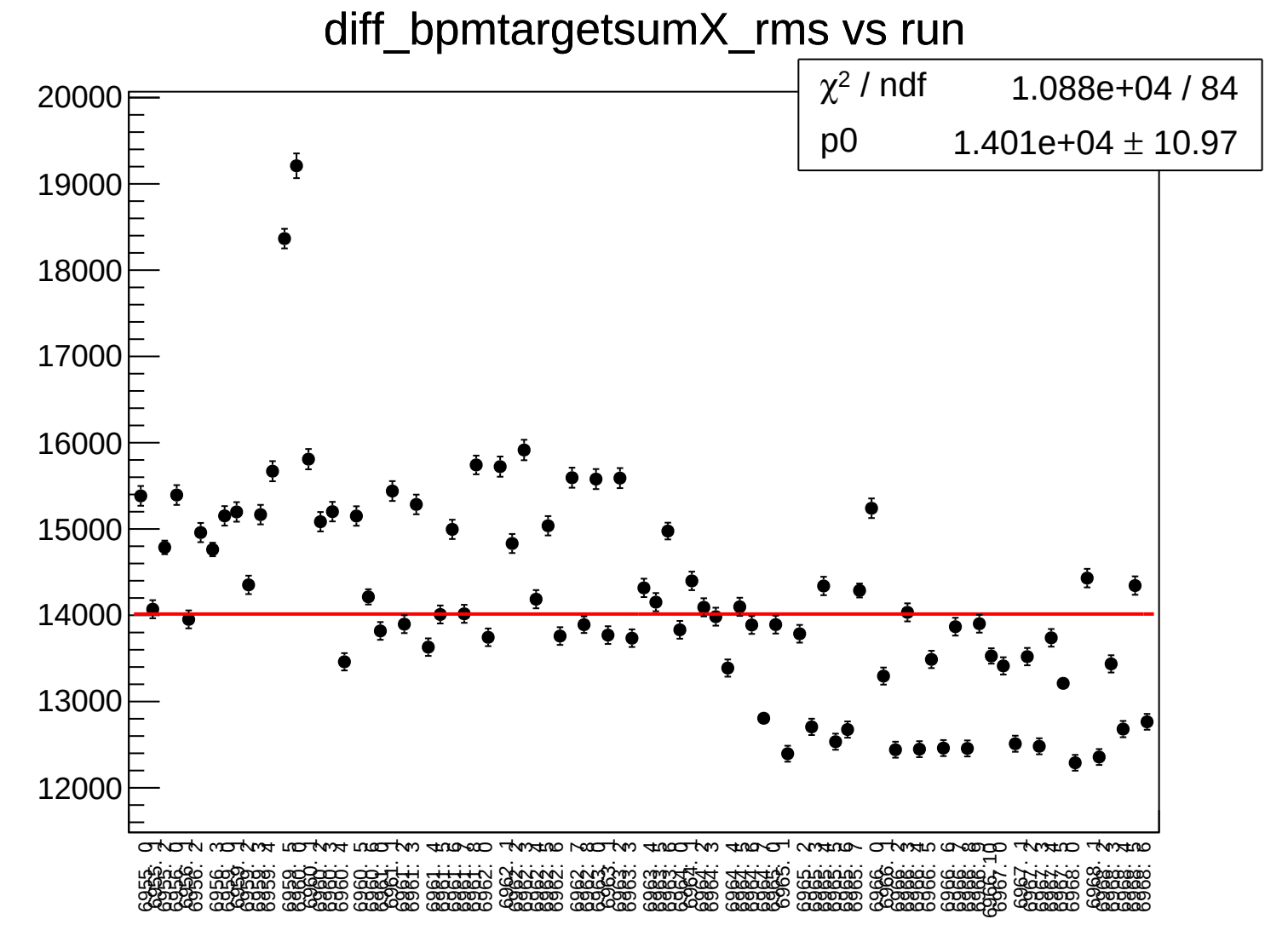

diff_bpm4aesumY_rms vs run
χ² / ndf 1535 / 84
p0 1.076e+04 ± 8.401
11600
11400
11200
11000
10800
10600
10400
10200
10000
9800

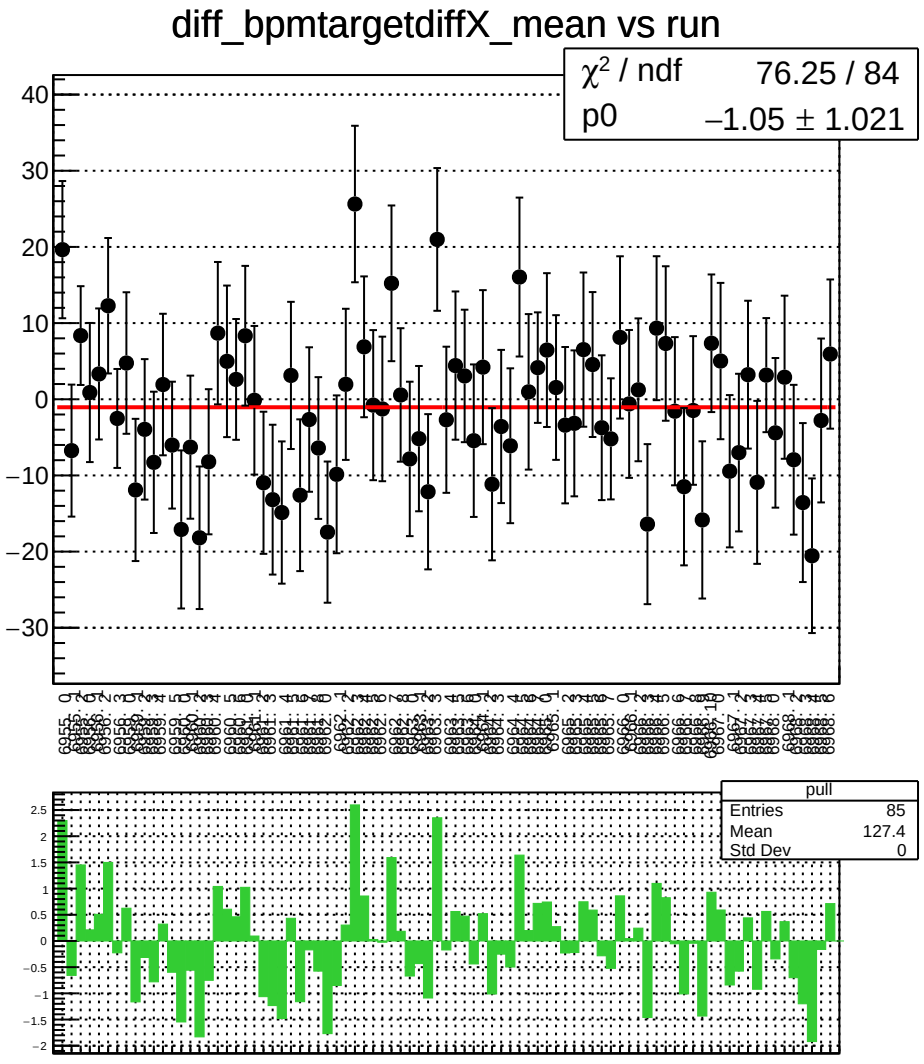

diff_bpm4aediffY_mean vs run
$\chi^2$ / ndf 91.99 / 84
p0 2.334 ± 2.478
pull
Entries 85
Mean 355.3
Std Dev 0

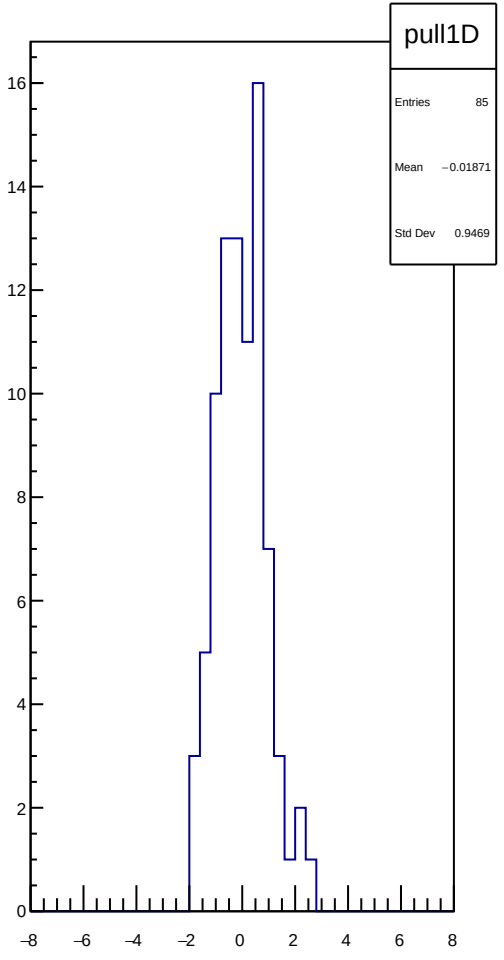

pull1D
Entries 85
Mean −0.01455
Std Dev 1.04

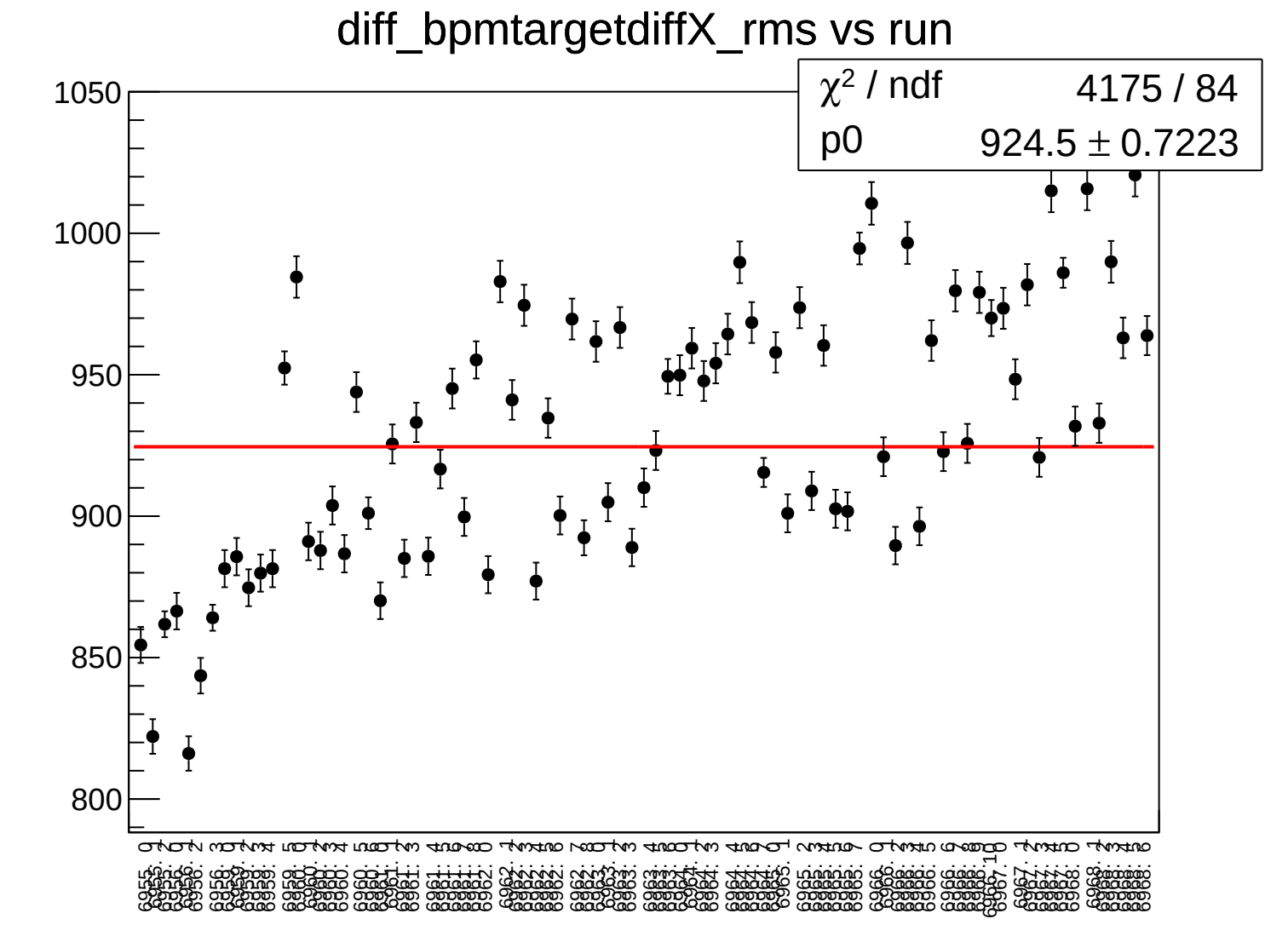

diff_bpm4aediffY_rms vs run
χ² / ndf 4687 / 84
p0 2243 ± 1.752
2500
2400
2300
2200
2100
2000

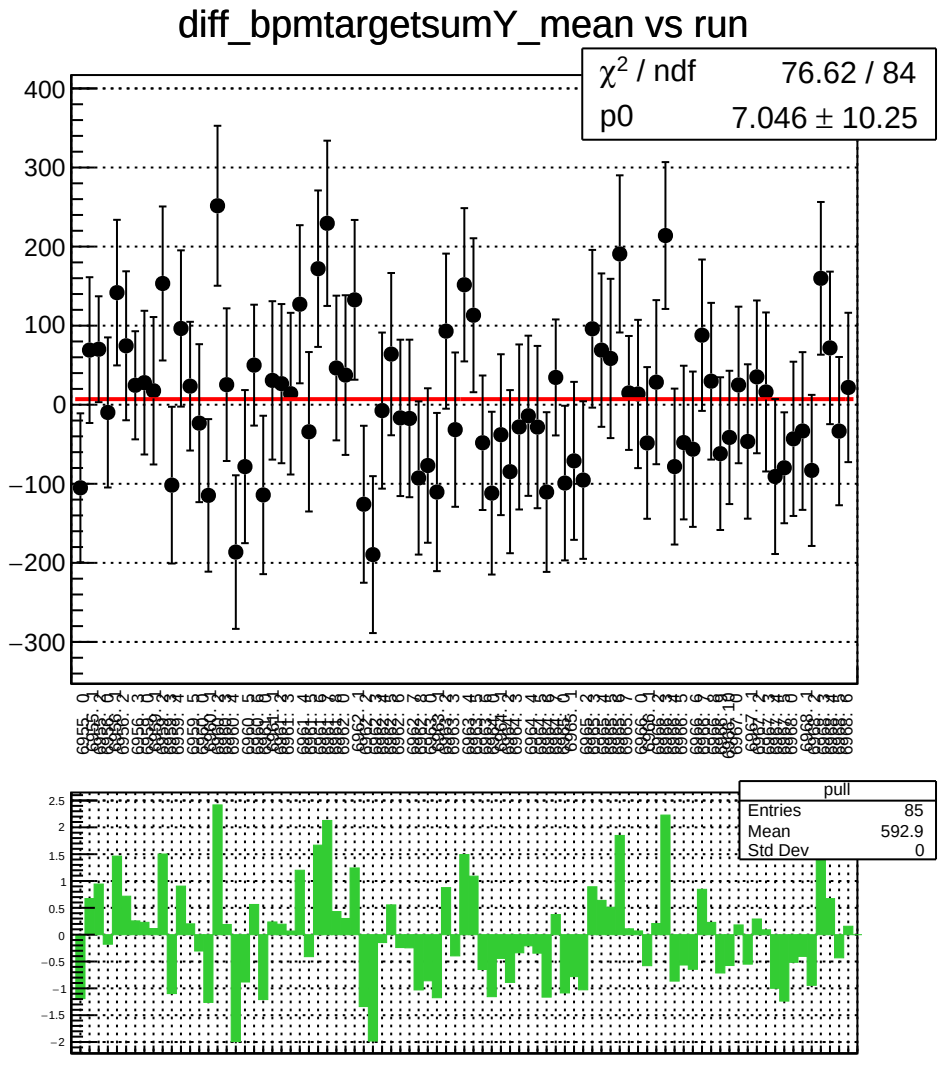

diff_bpmtargetsumX_mean vs run
χ² / ndf 94.1 / 84
p0 −4.889 ± 15.52
600
400
200
0
−200
−400
−600
pull
Entries 85
Mean −61.11
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01212
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

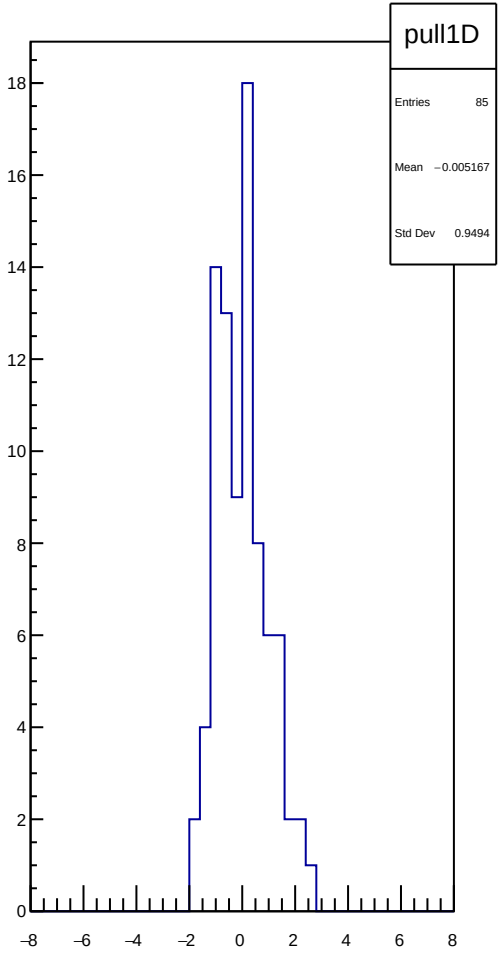

diff_bpmtargetsumX_rms vs run
χ² / ndf 1.088e+04 / 84
p0 1.401e+04 ± 10.97
20000
19000
18000
17000
16000
15000
14000
13000
12000

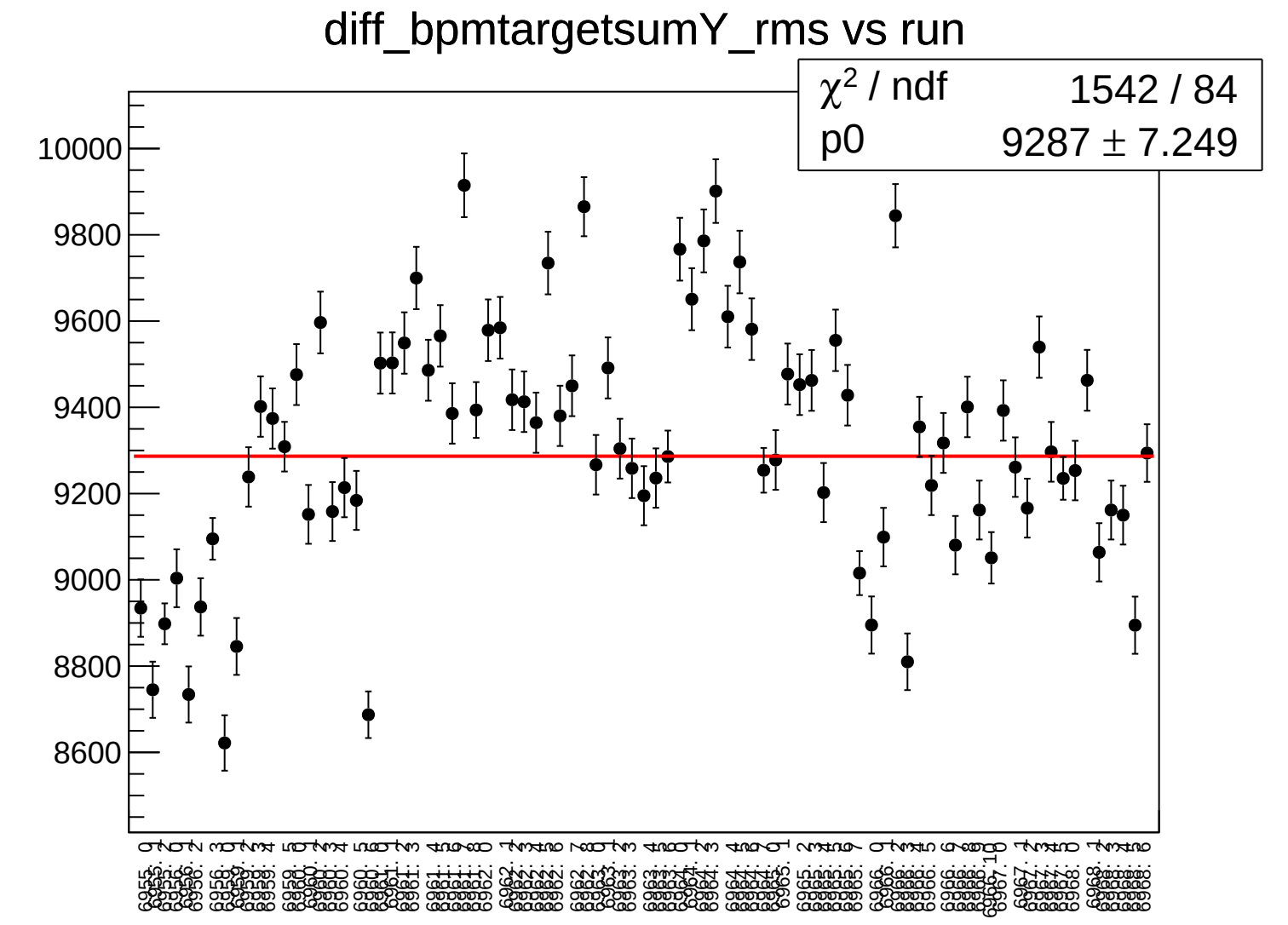

diff_bpmtargetdiffX_mean vs run
χ² / ndf 76.25 / 84
p0 −1.05 ± 1.021
pull
Entries 85
Mean 127.4
Std Dev 0

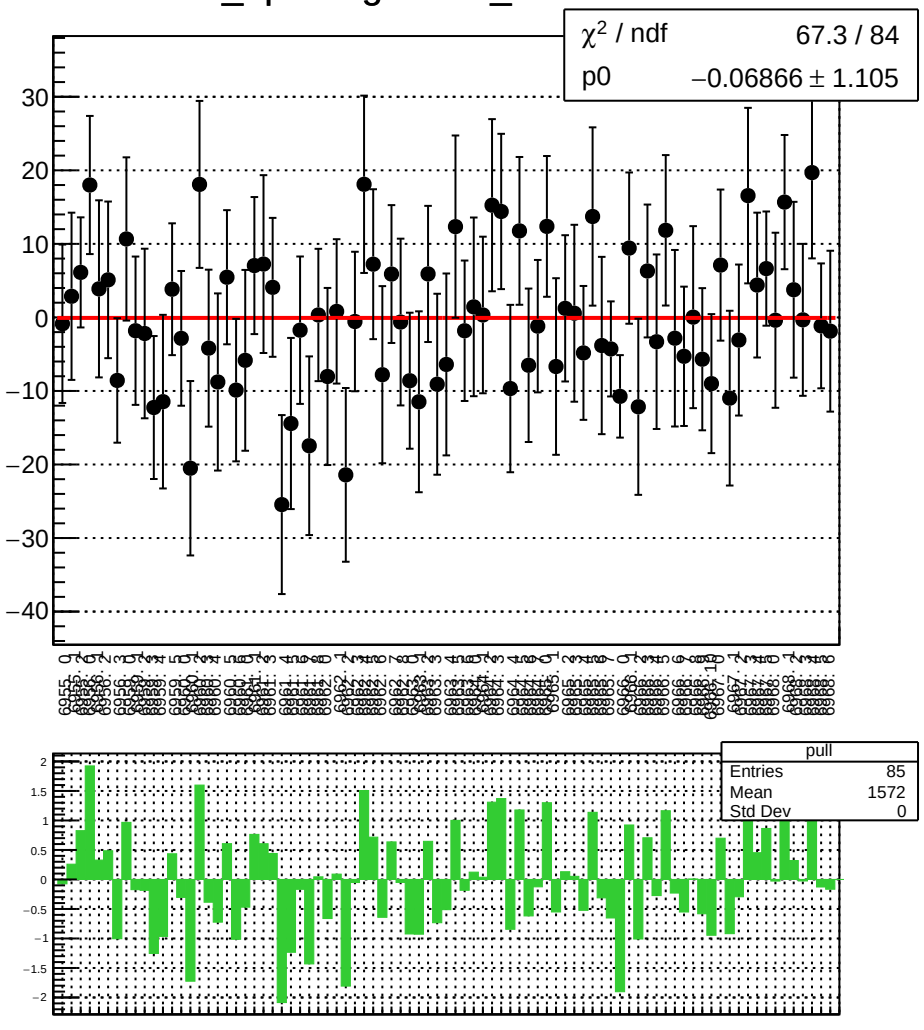

pull1D
Entries 85
Mean −0.01871
Std Dev 0.9469

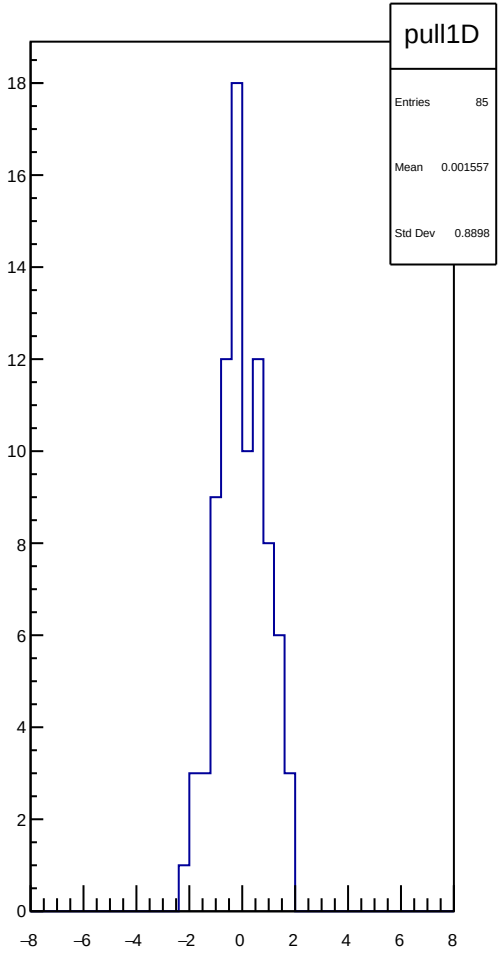

diff_bpmtargetdiffX_rms vs run
χ² / ndf 4175 / 84
p0 924.5 ± 0.7223
1050
1000
950
900
850
800

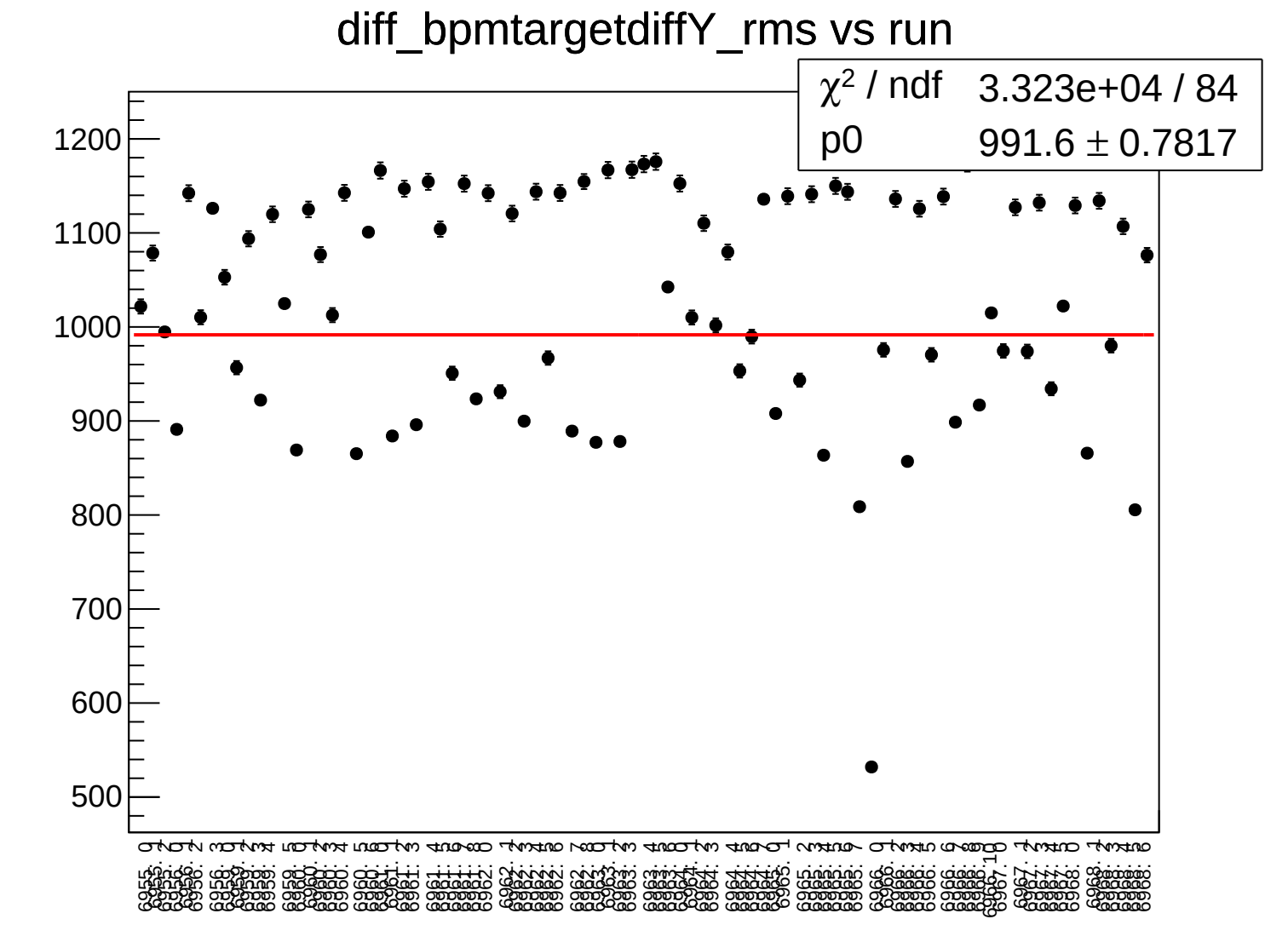

diff_bpmtargetsumY_mean vs run
χ² / ndf 76.62 / 84
p0 7.046 ± 10.25
pull
Entries 85
Mean 592.9
Std Dev 0

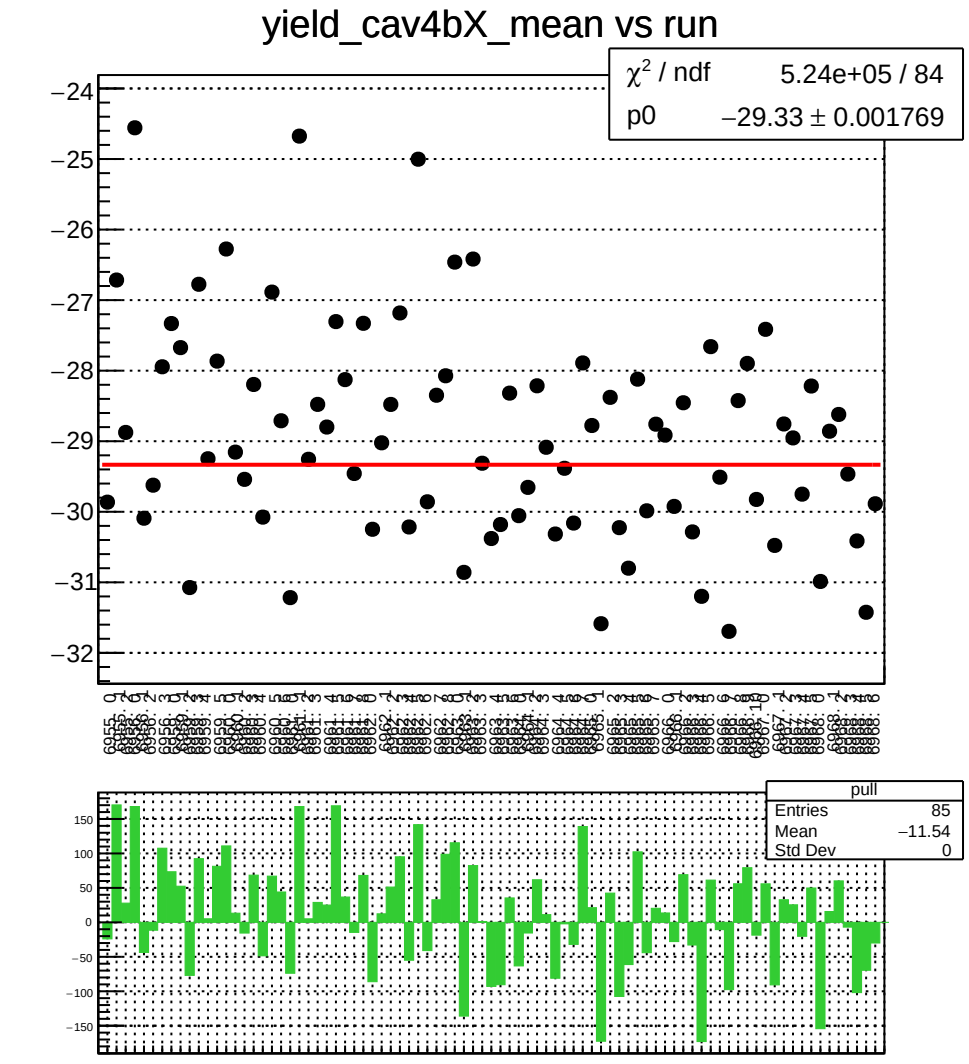

pull1D
Entries 85
Mean −0.005167
Std Dev 0.9494

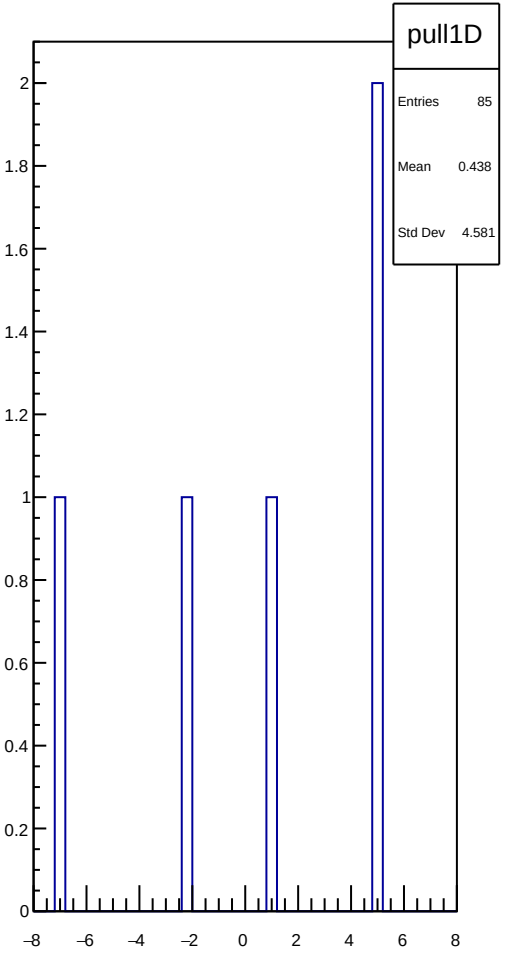

diff_bpmtargetsumY_rms vs run
χ² / ndf 1542 / 84
p0 9287 ± 7.249
10000
9800
9600
9400
9200
9000
8800
8600

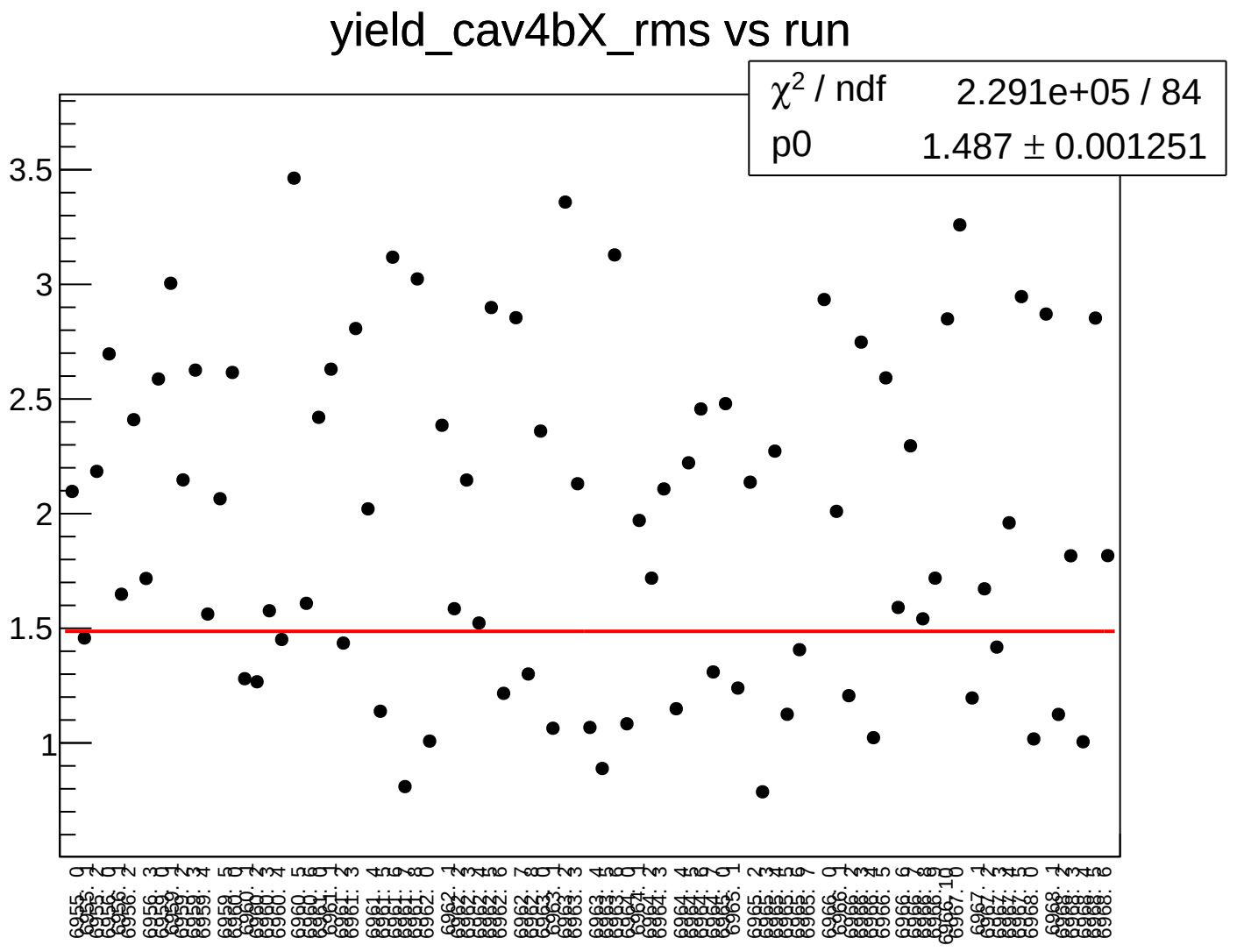

diff_bpmtargetdiffY_mean vs run
χ² / ndf 67.3 / 84
p0 −0.06866 ± 1.105
pull
Entries 85
Mean 1572
Std Dev 0

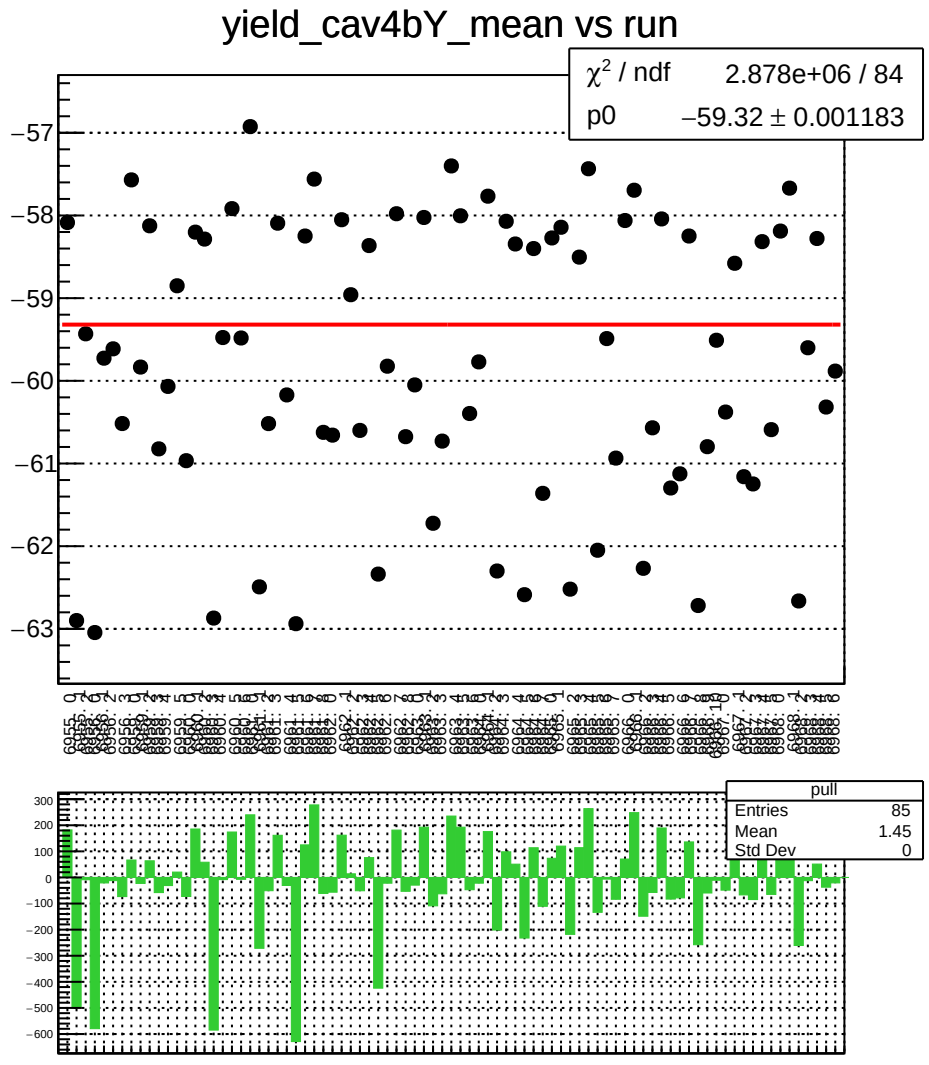

pull1D
Entries 85
Mean 0.001557
Std Dev 0.8898

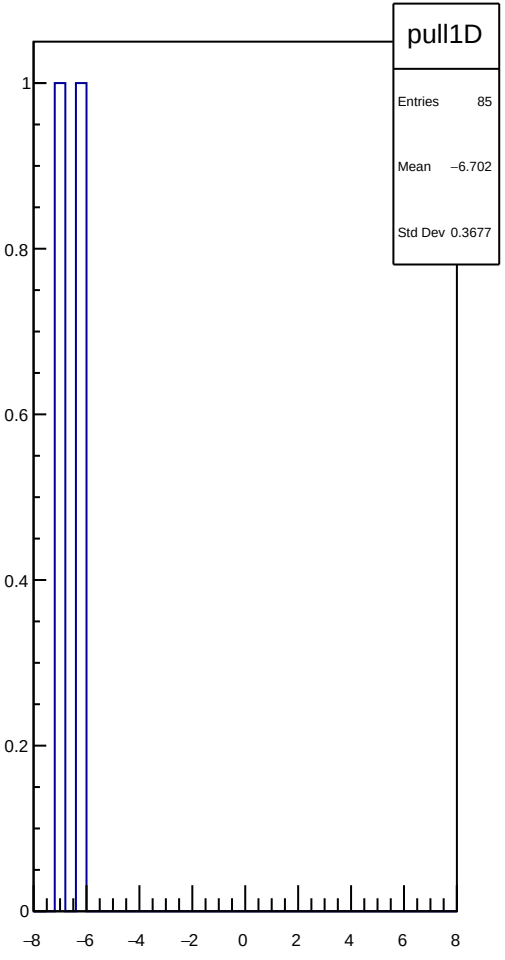

diff_bpmtargetdiffY_rms vs run
χ² / ndf 3.323e+04 / 84
p0 991.6 ± 0.7817
1200
1100
1000
900
800
700
600
500

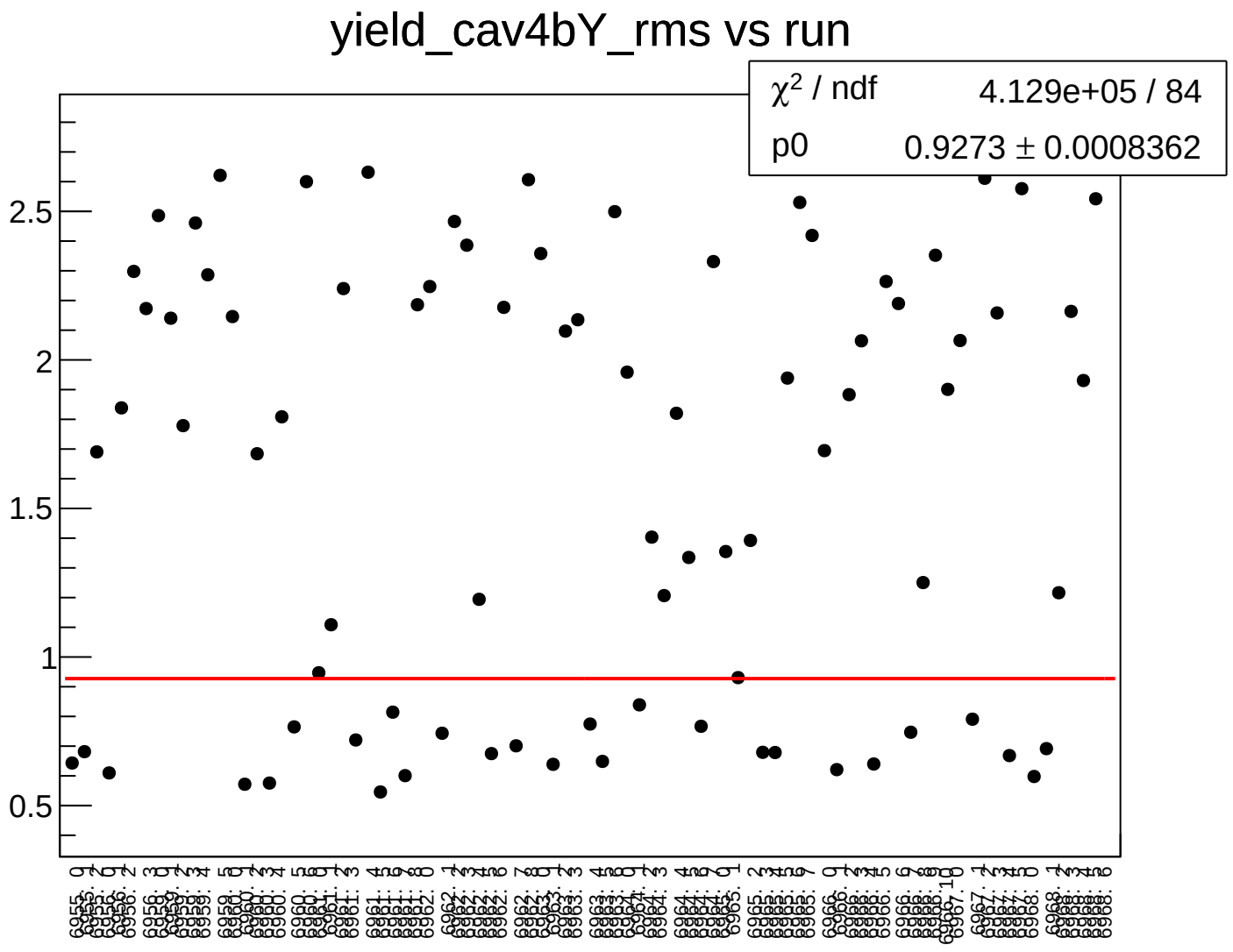

yield_cav4bX_mean vs run
χ² / ndf 5.24e+05 / 84
p0 −29.33 ± 0.001769
pull
Entries 85
Mean −11.54
Std Dev 0

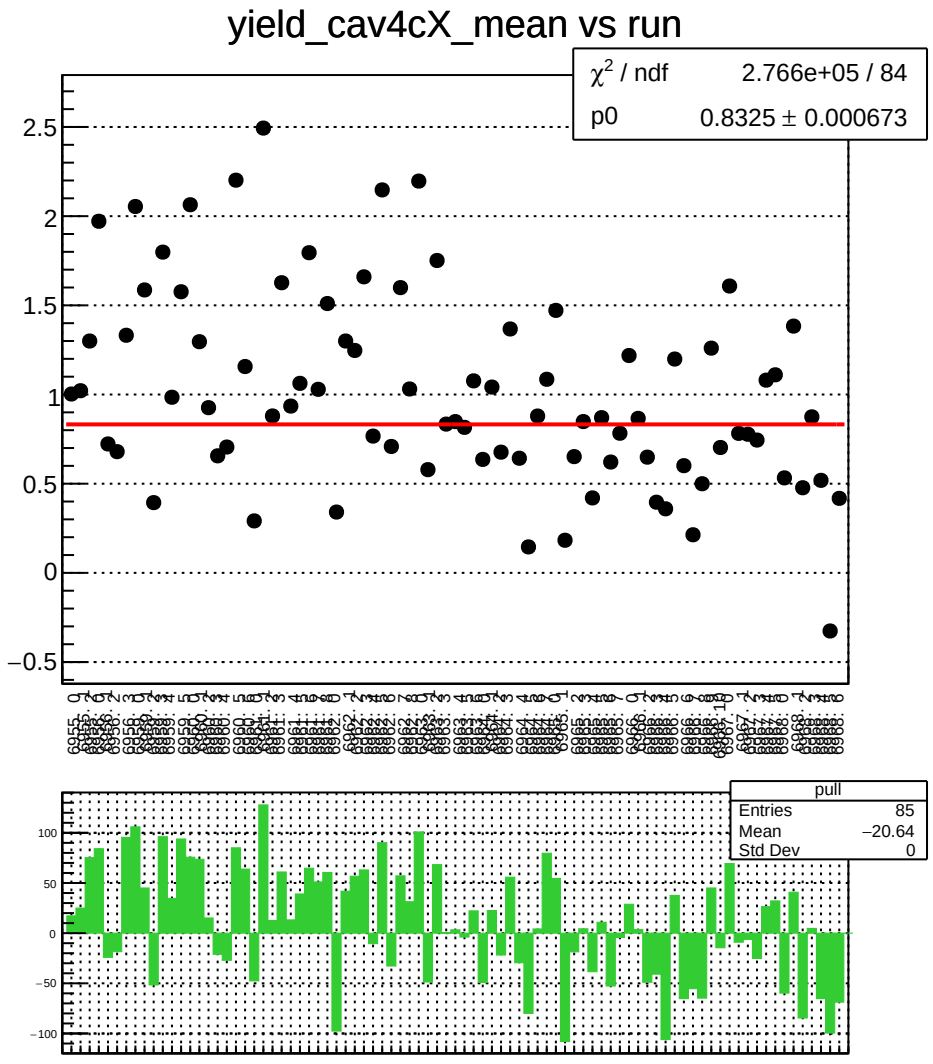

pull1D
Entries 85
Mean 0.438
Std Dev 4.581

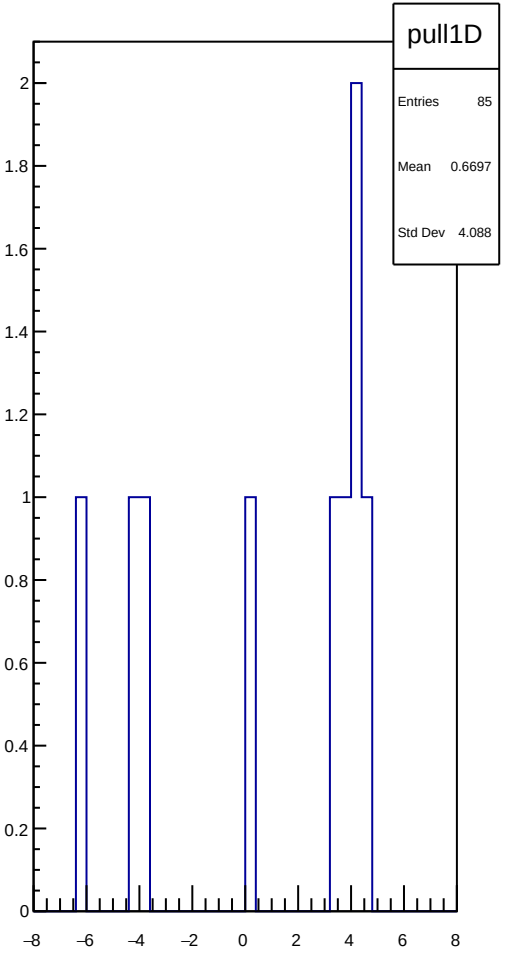

yield_cav4bX_rms vs run
$\chi^2$ / ndf 2.291e+05 / 84
p0 1.487 ± 0.001251
3.5
3
2.5
2
1.5
1

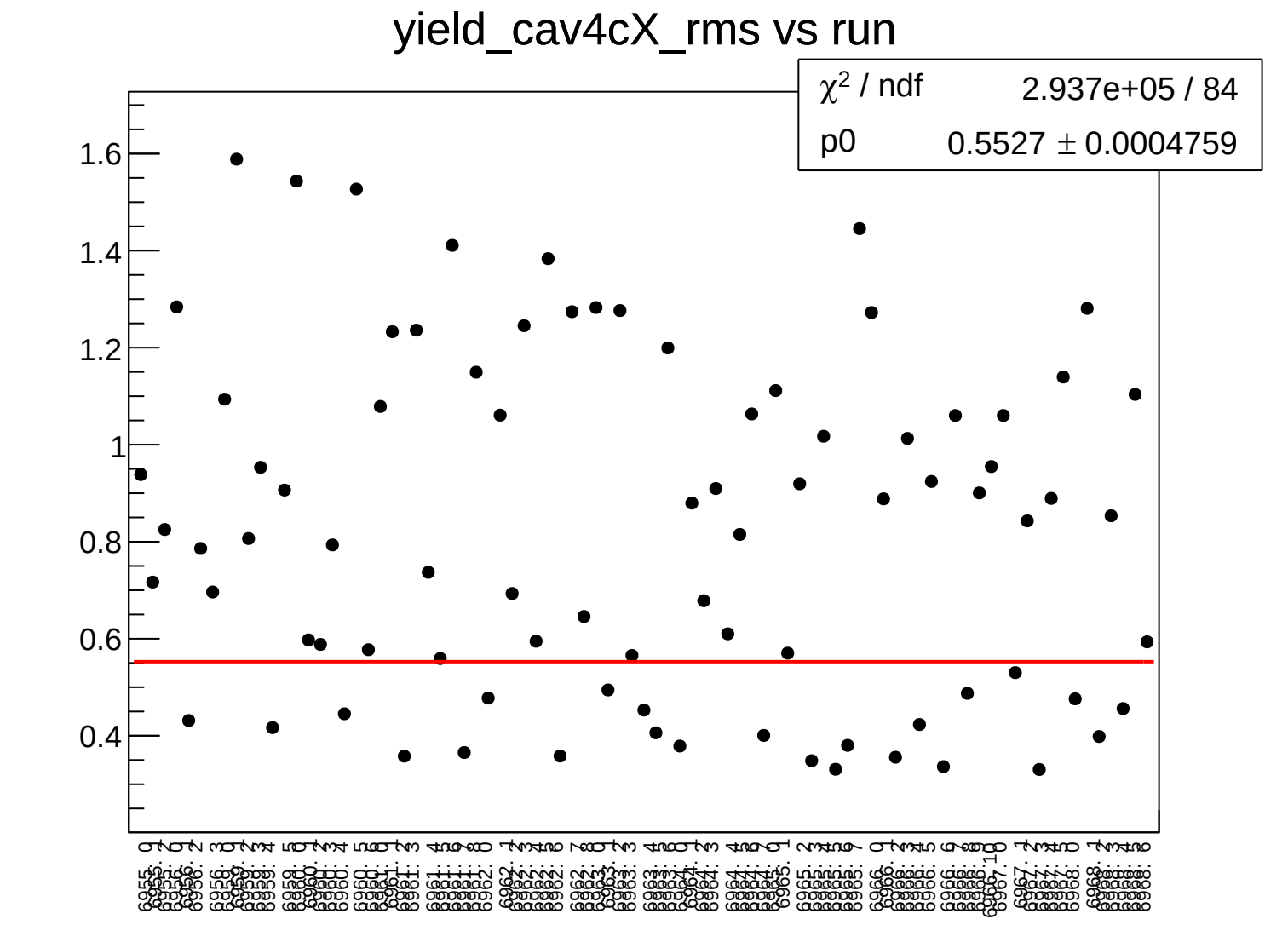

yield_cav4bY_mean vs run
χ² / ndf 2.878e+06 / 84
p0 −59.32 ± 0.001183
pull
Entries 85
Mean 1.45
Std Dev 0

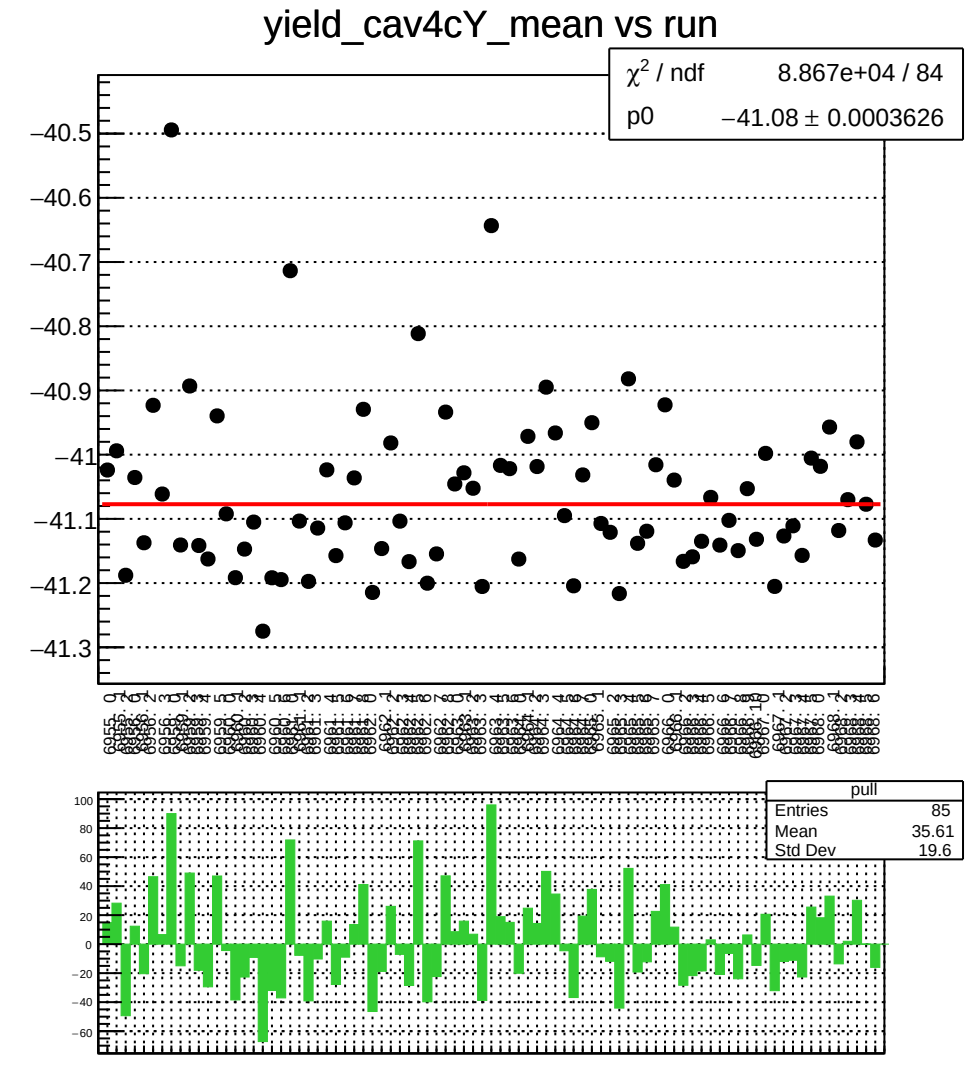

pull1D
Entries 85
Mean −6.702
Std Dev 0.3677

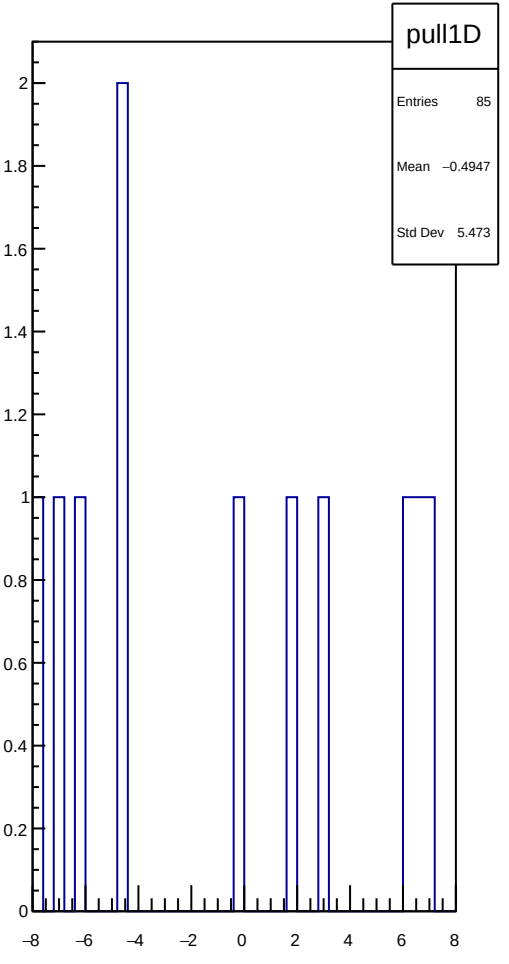

yield_cav4bY_rms vs run
χ2 / ndf 4.129e+05 / 84
p0 0.9273 ± 0.0008362
2.5
2
1.5
1
0.5

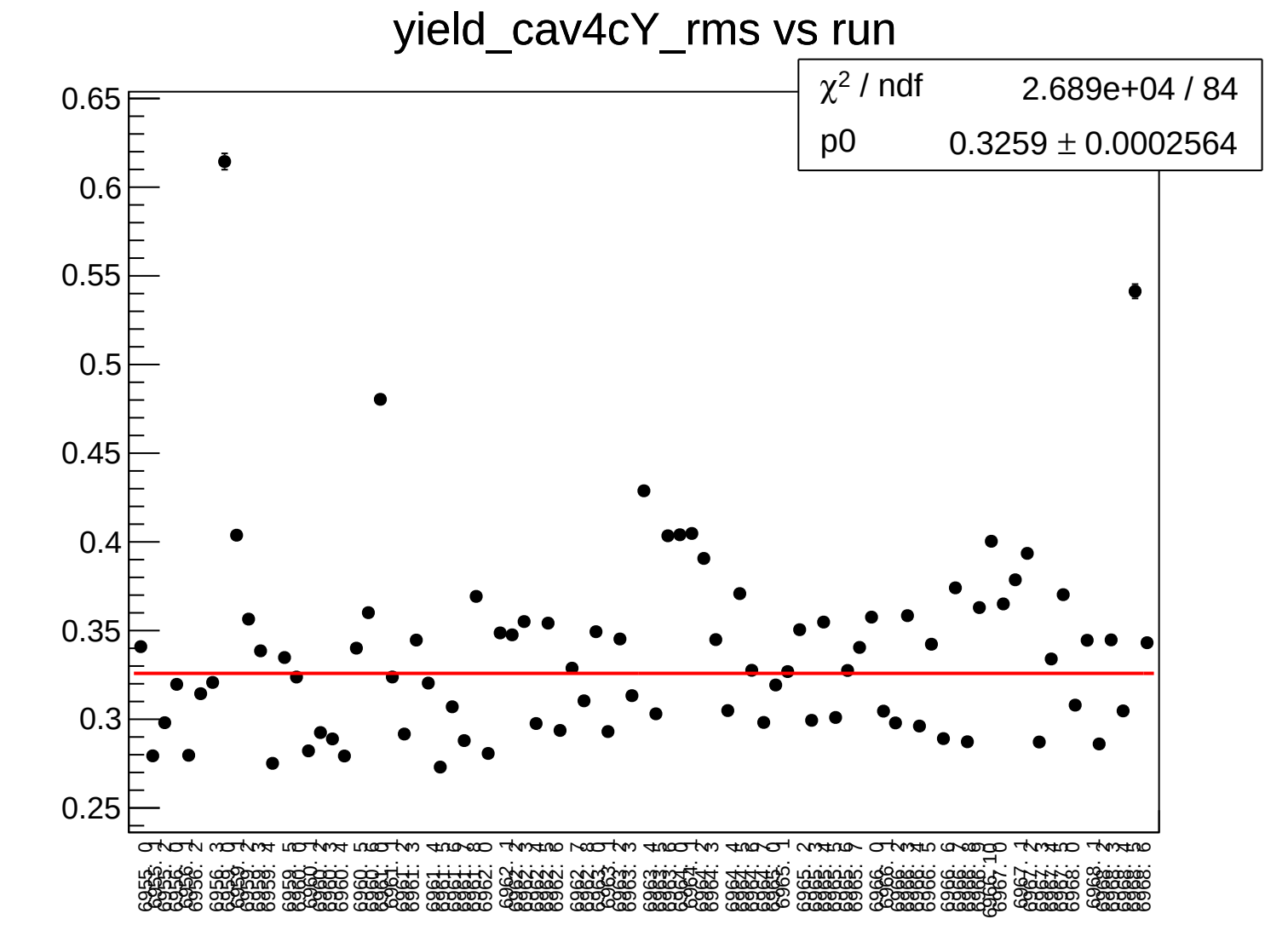

yield_cav4cX_mean vs run
χ² / ndf 2.766e+05 / 84
p0 0.8325 ± 0.000673
pull
Entries 85
Mean −20.64
Std Dev 0

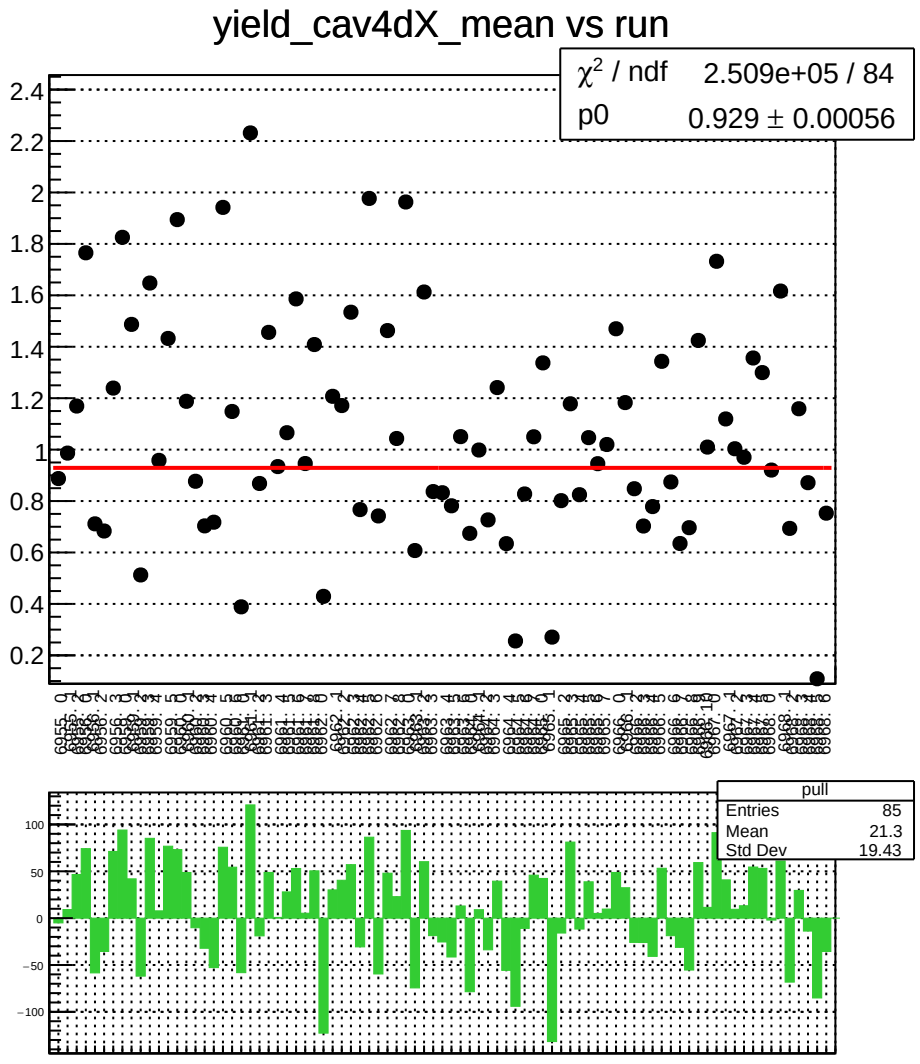

pull1D
Entries 85
Mean 0.6697
Std Dev 4.088

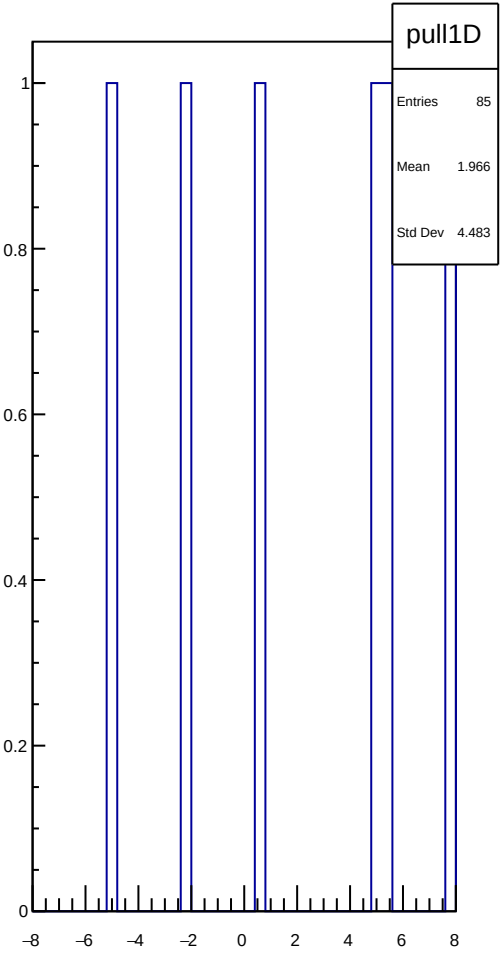

yield_cav4cX_rms vs run
χ² / ndf 2.937e+05 / 84
p0 0.5527 ± 0.0004759
1.6
1.4
1.2
1
0.8
0.6
0.4

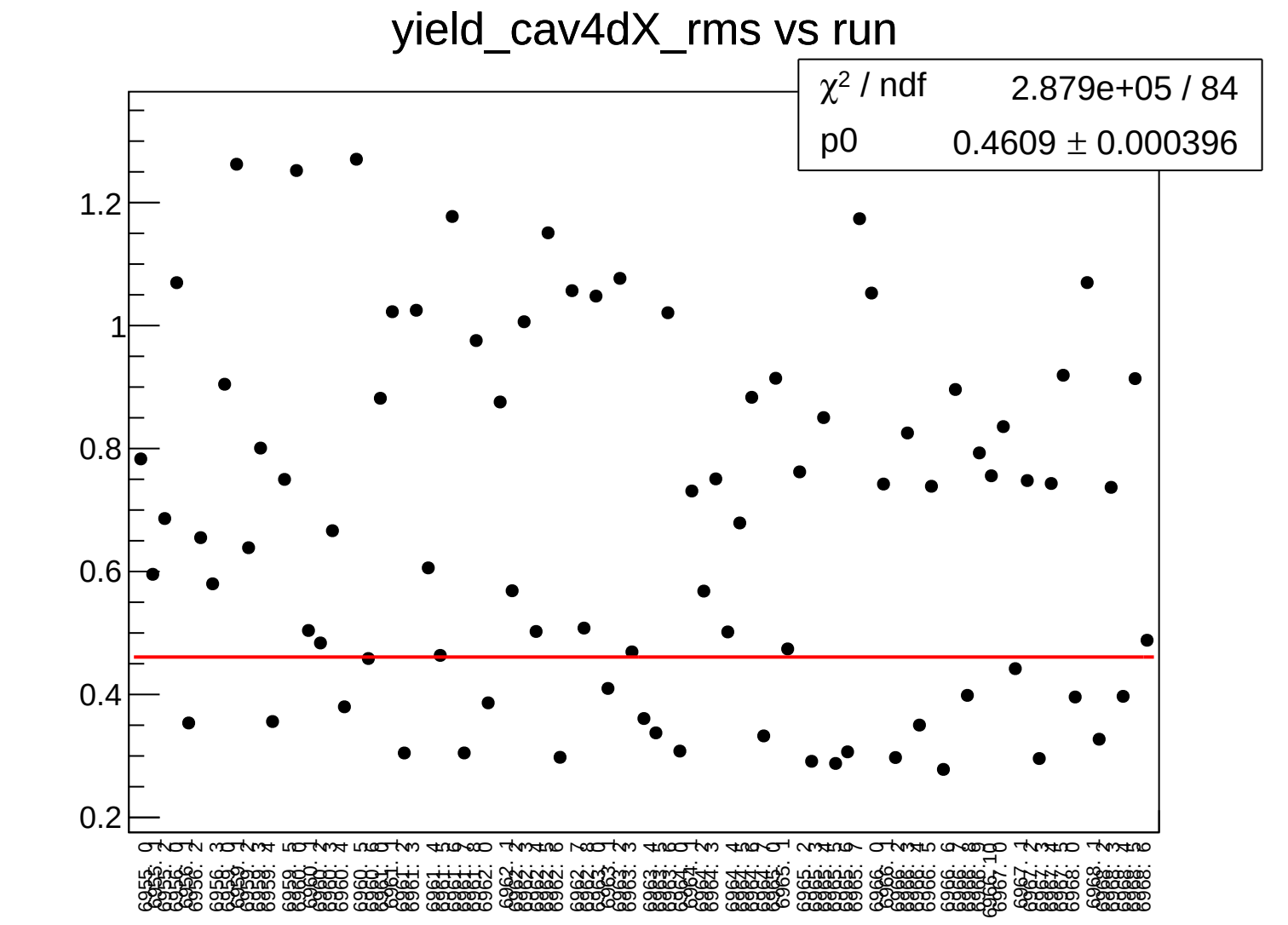

yield_cav4cY_mean vs run
χ² / ndf 8.867e+04 / 84
p0 −41.08 ± 0.0003626
−40.5
−40.6
−40.7
−40.8
−40.9
−41
−41.1
−41.2
−41.3
pull
Entries 85
Mean 35.61
Std Dev 19.6
100
80
60
40
20
0
−20
−40
−60

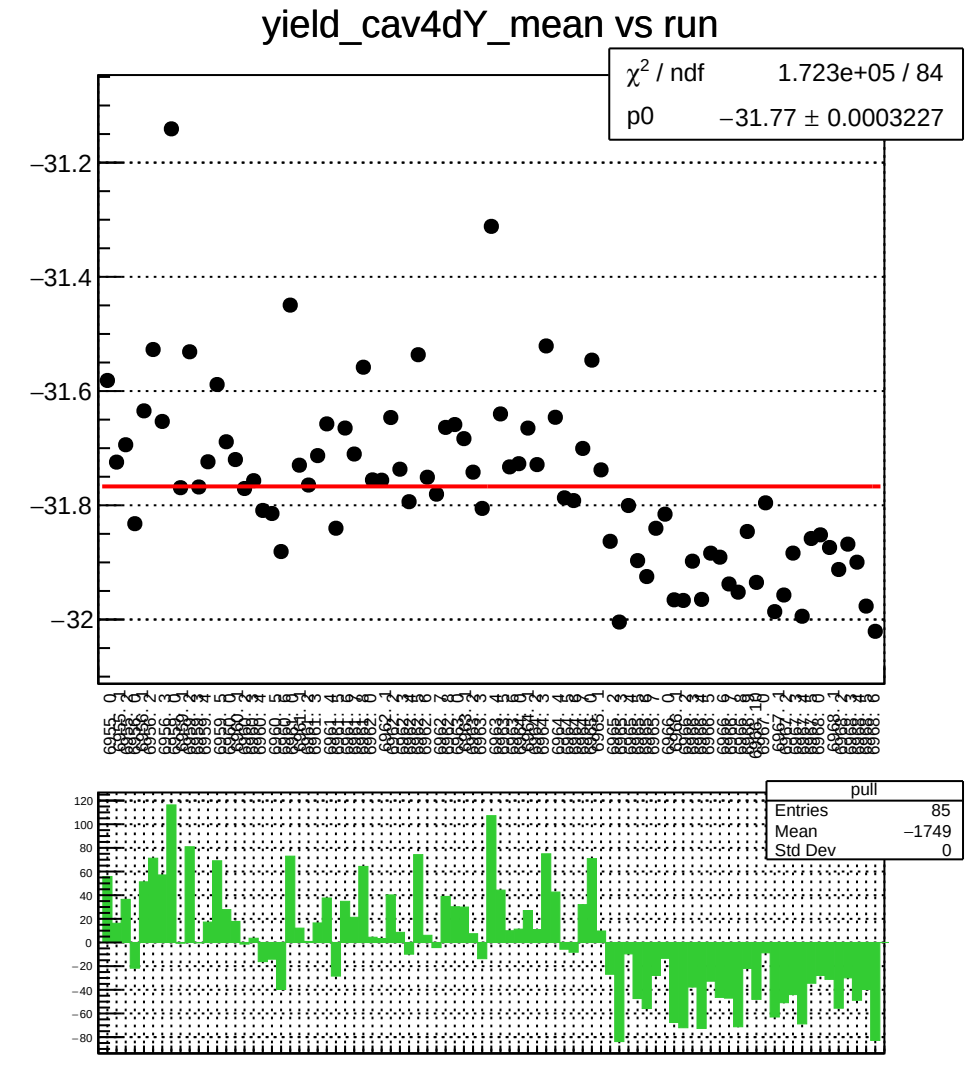

pull1D
Entries 85
Mean −0.4947
Std Dev 5.473
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

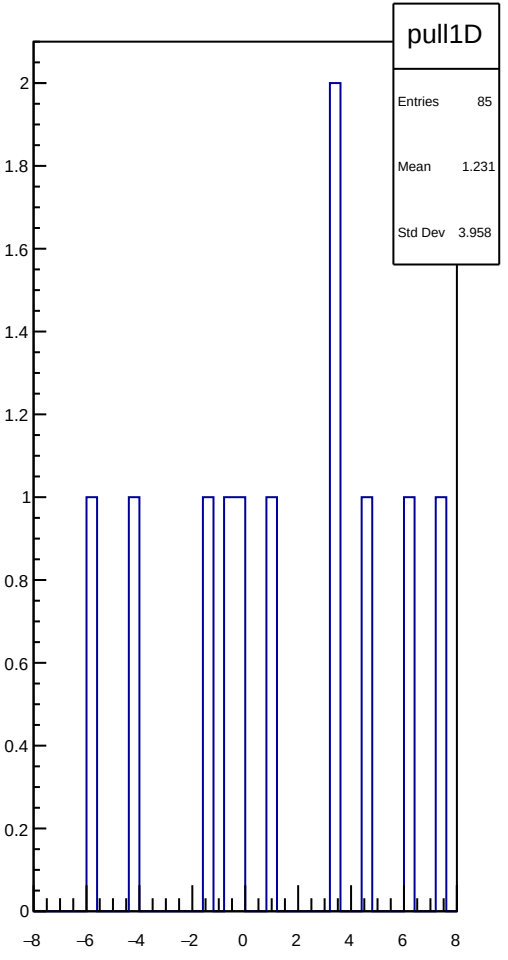

yield_cav4cY_rms vs run
χ² / ndf 2.689e+04 / 84
p0 0.3259 ± 0.0002564
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

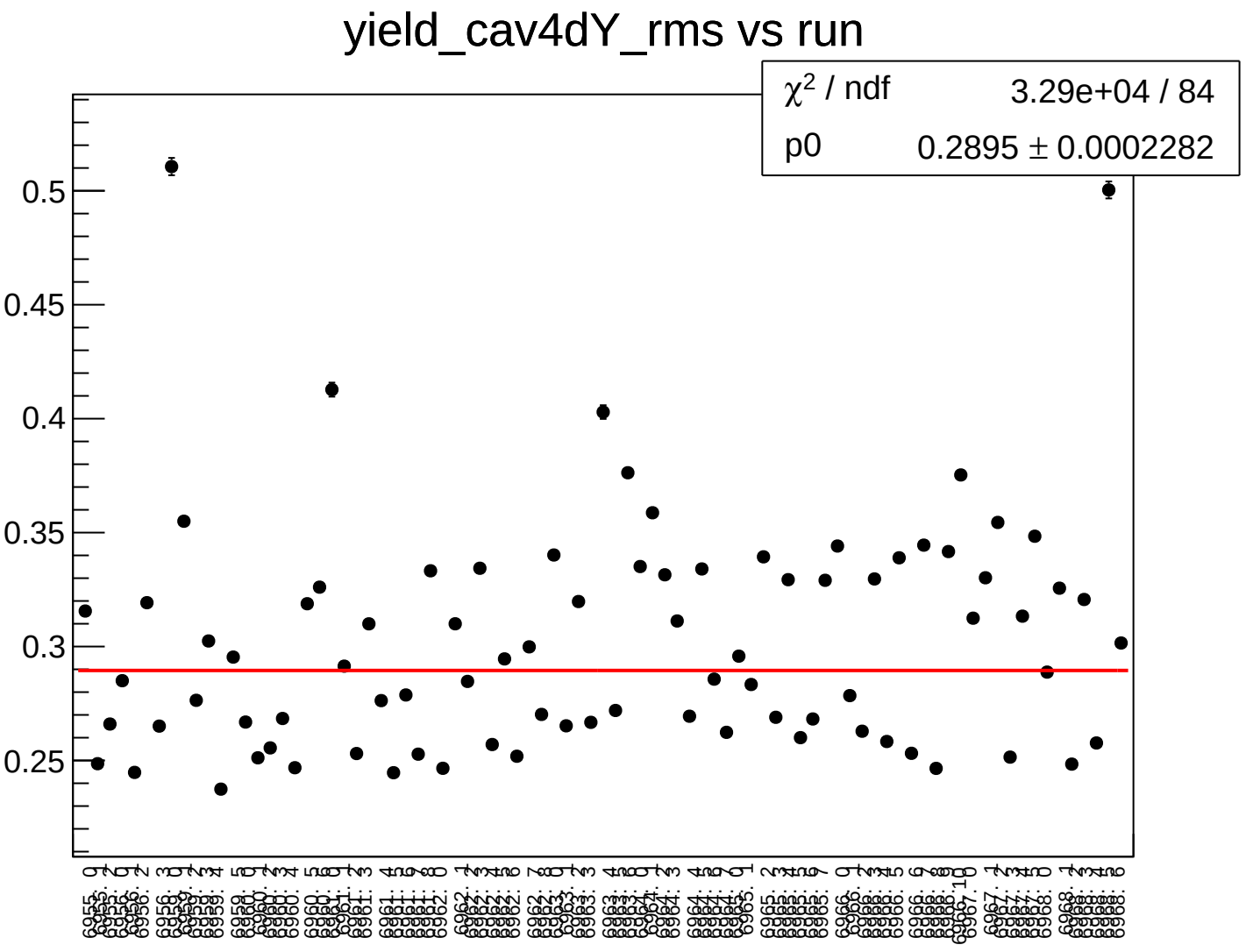

yield_cav4dX_mean vs run
χ² / ndf 2.509e+05 / 84
p0 0.929 ± 0.00056
pull
Entries 85
Mean 21.3
Std Dev 19.43

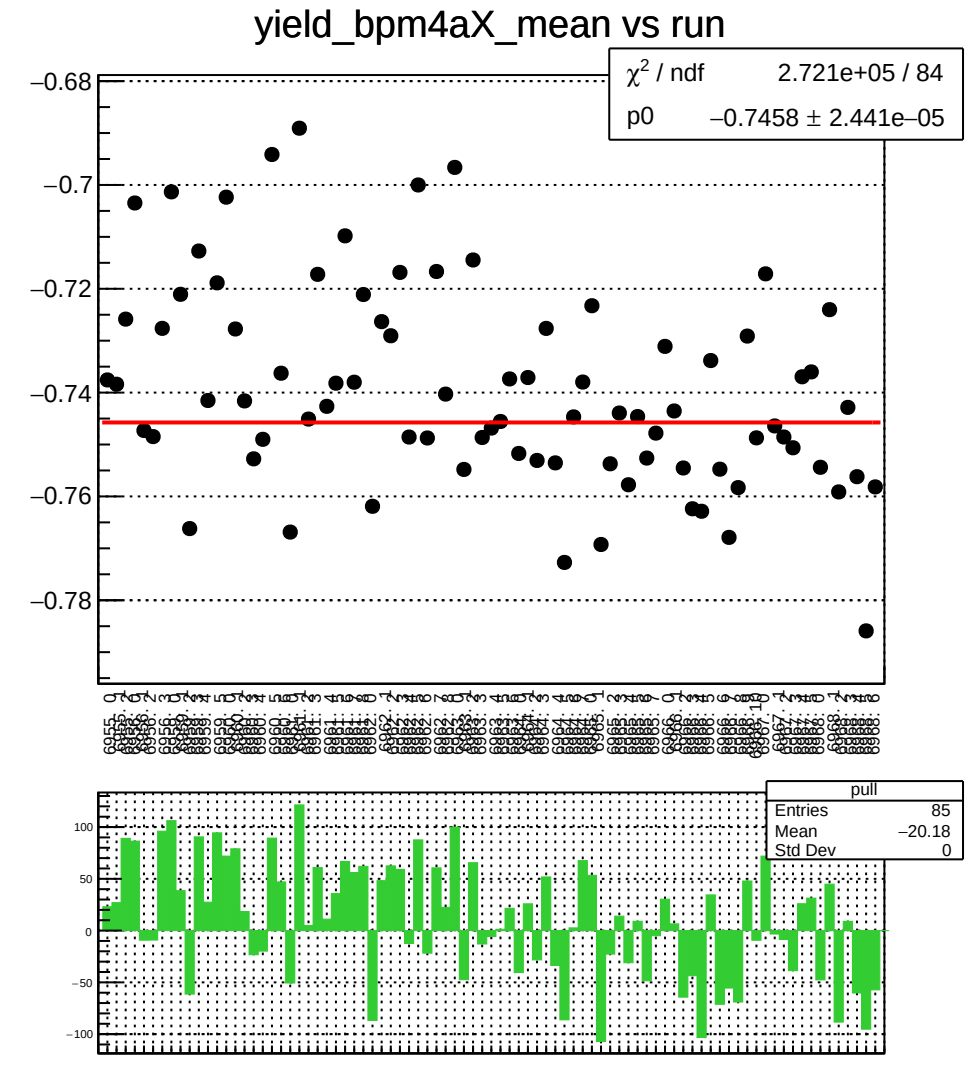

pull1D
Entries 85
Mean 1.966
Std Dev 4.483

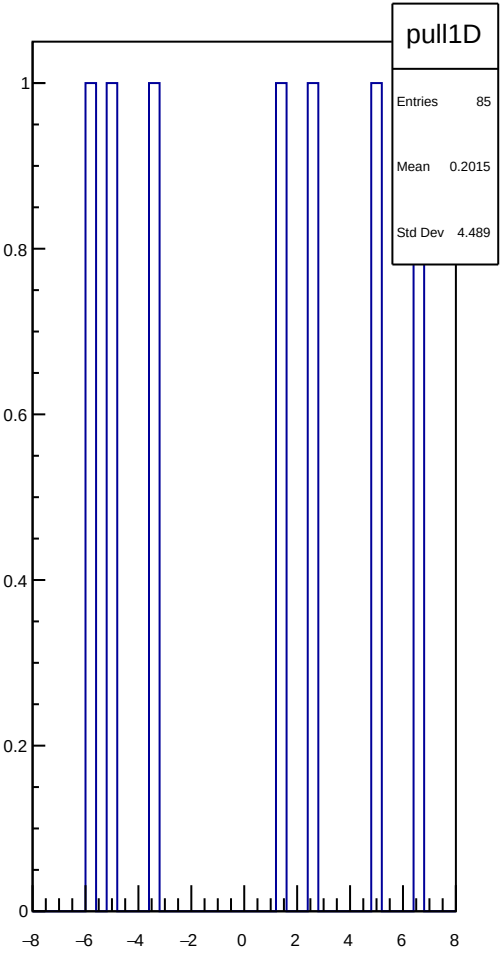

yield_cav4dX_rms vs run
χ² / ndf 2.879e+05 / 84
p0 0.4609 ± 0.000396
1.2
1
0.8
0.6
0.4
0.2

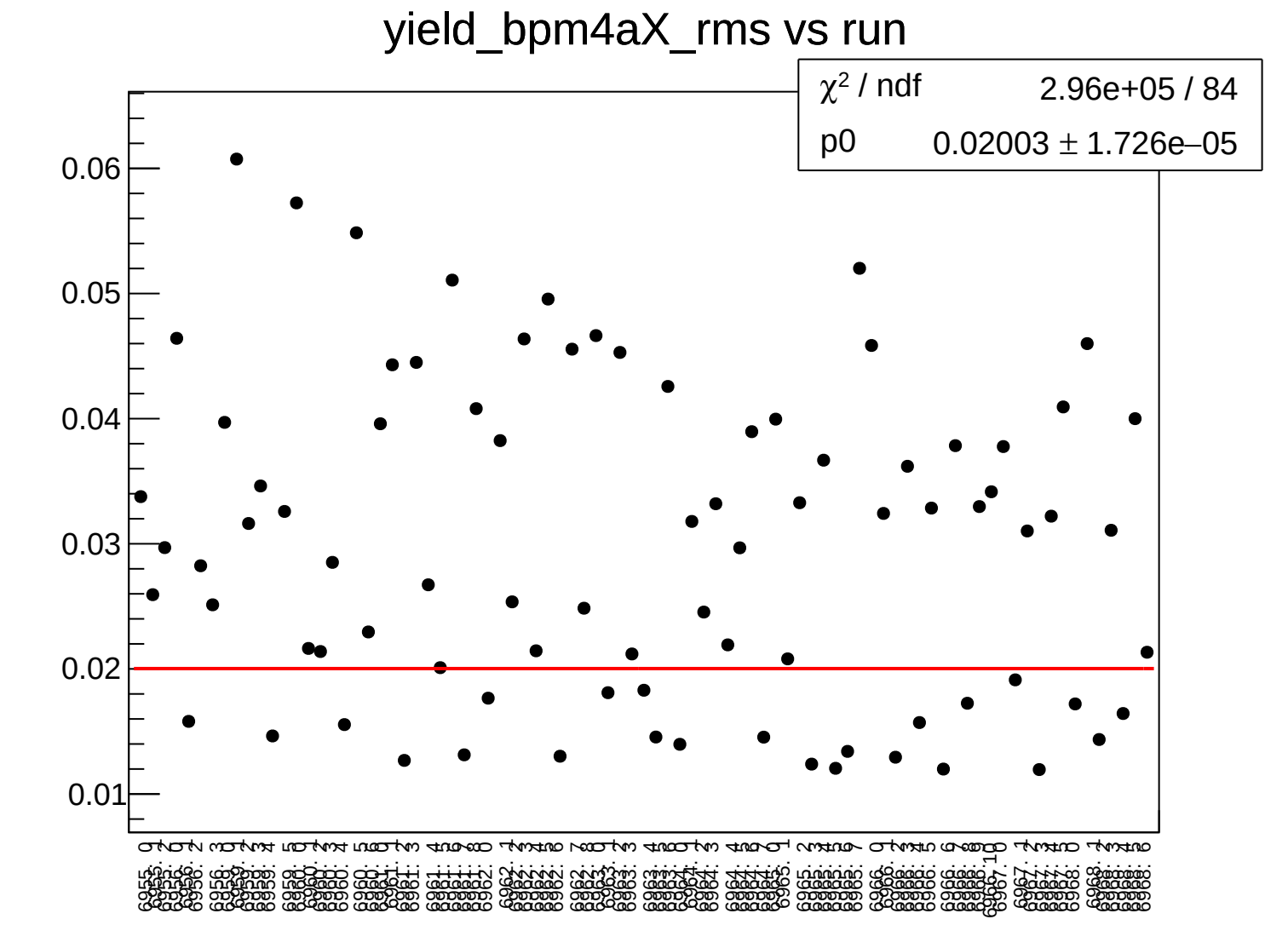

yield_cav4dY_mean vs run
χ² / ndf 1.723e+05 / 84
p0 −31.77 ± 0.0003227
−31.2
−31.4
−31.6
−31.8
−32
pull
Entries 85
Mean −1749
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

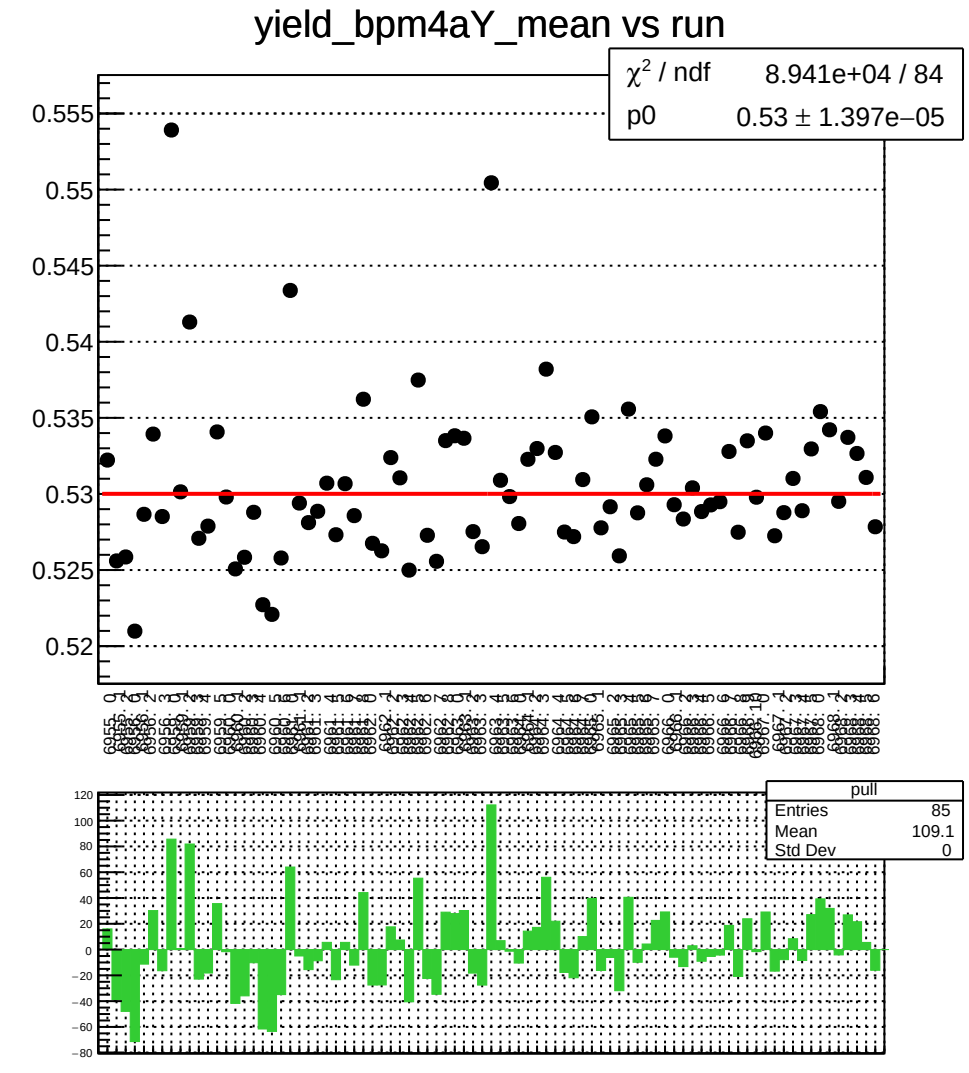

pull1D
Entries 85
Mean 1.231
Std Dev 3.958
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

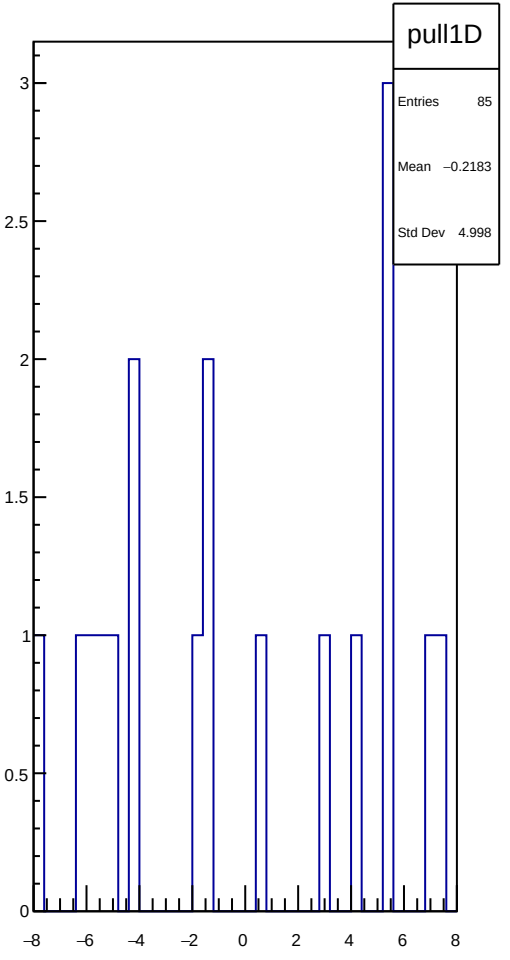

yield_cav4dY_rms vs run
χ² / ndf 3.29e+04 / 84
p0 0.2895 ± 0.0002282
0.5
0.45
0.4
0.35
0.3
0.25

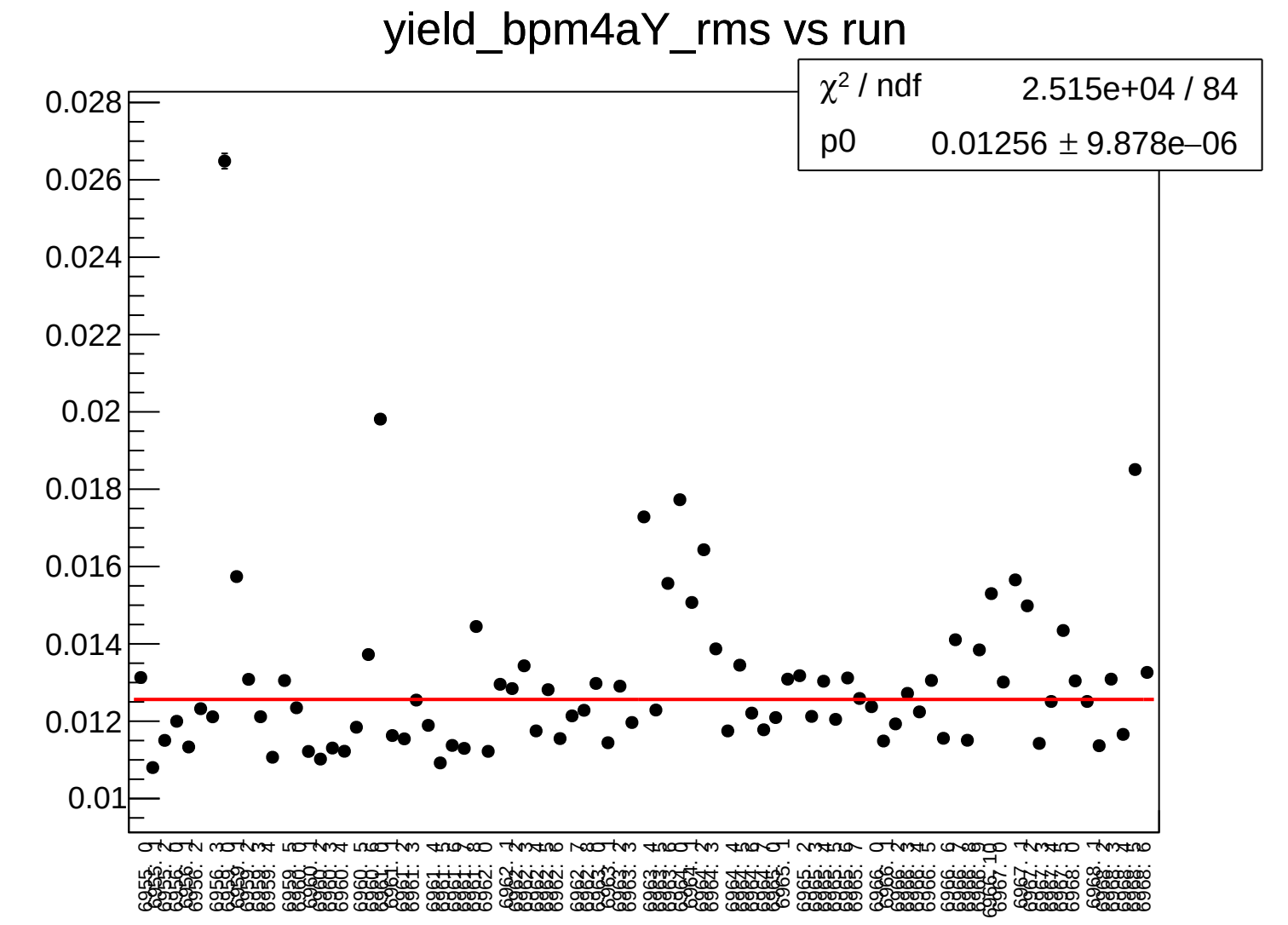

yield_bpm4aX_mean vs run
χ² / ndf 2.721e+05 / 84
p0 −0.7458 ± 2.441e−05
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
pull
Entries 85
Mean −20.18
Std Dev 0
100
50
0
−50
−100

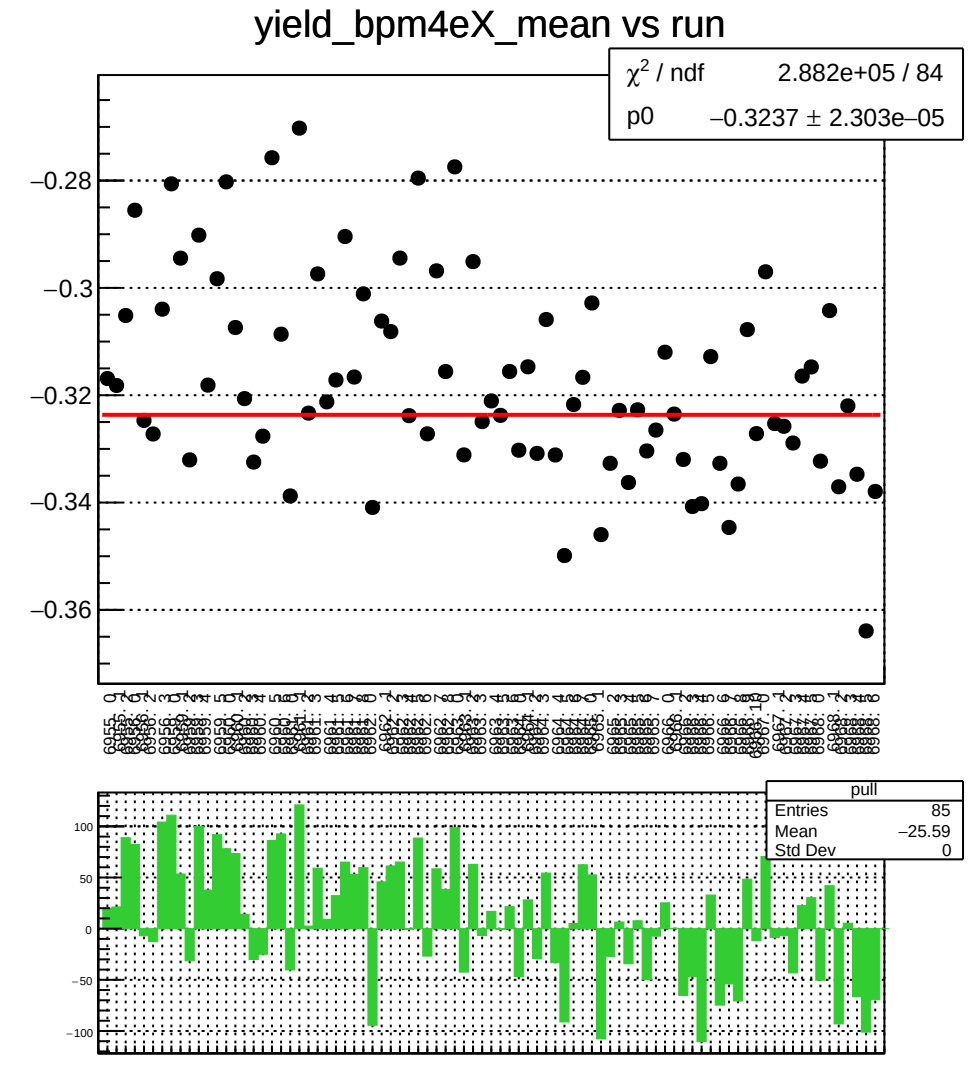

pull1D
Entries 85
Mean 0.2015
Std Dev 4.489
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

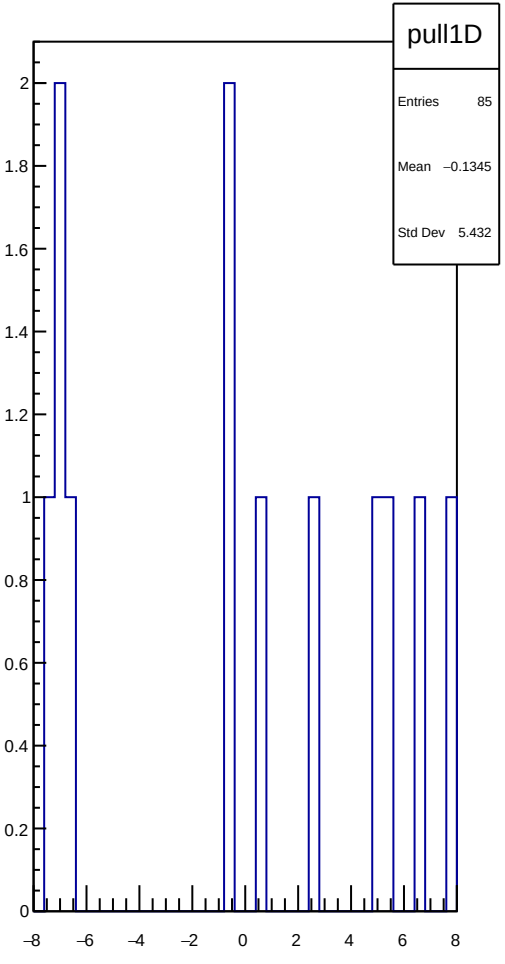

yield_bpm4aX_rms vs run
χ² / ndf 2.96e+05 / 84
p0 0.02003 ± 1.726e−05
0.06
0.05
0.04
0.03
0.02
0.01

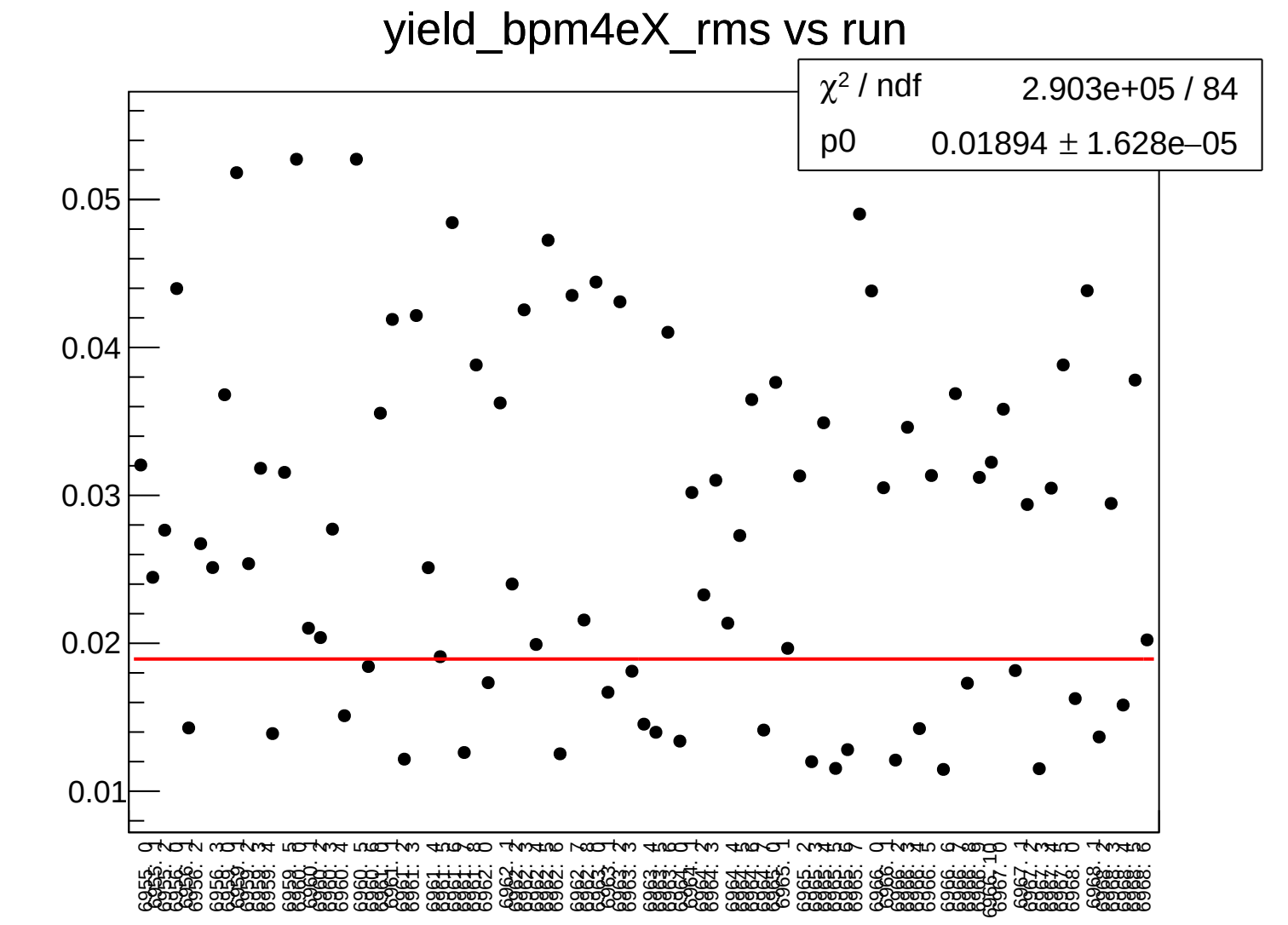

yield_bpm4aY_mean vs run
χ² / ndf 8.941e+04 / 84
p0 0.53 ± 1.397e−05
0.555
0.55
0.545
0.54
0.535
0.53
0.525
0.52
pull
Entries 85
Mean 109.1
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

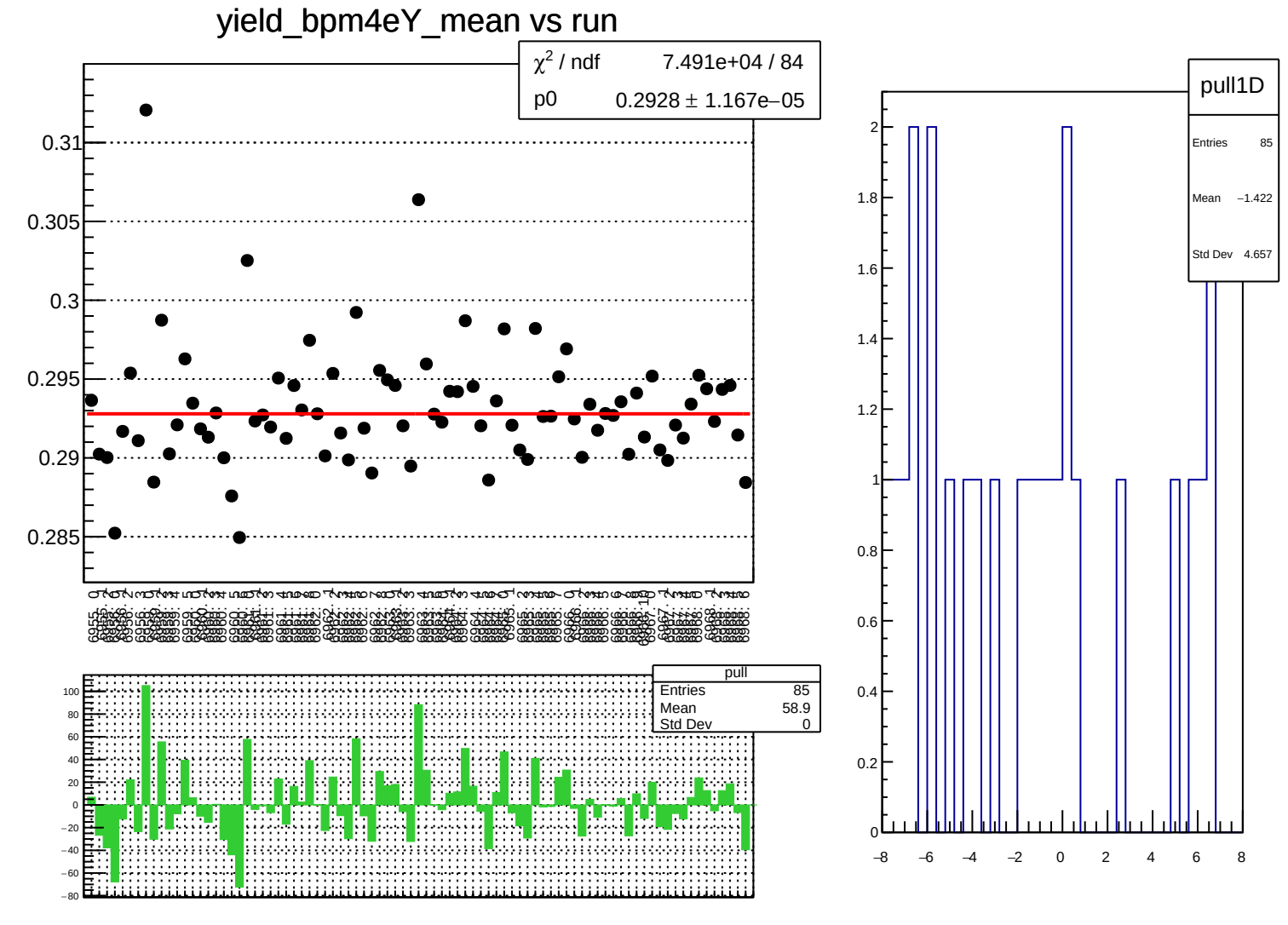

pull1D
Entries 85
Mean −0.2183
Std Dev 4.998
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

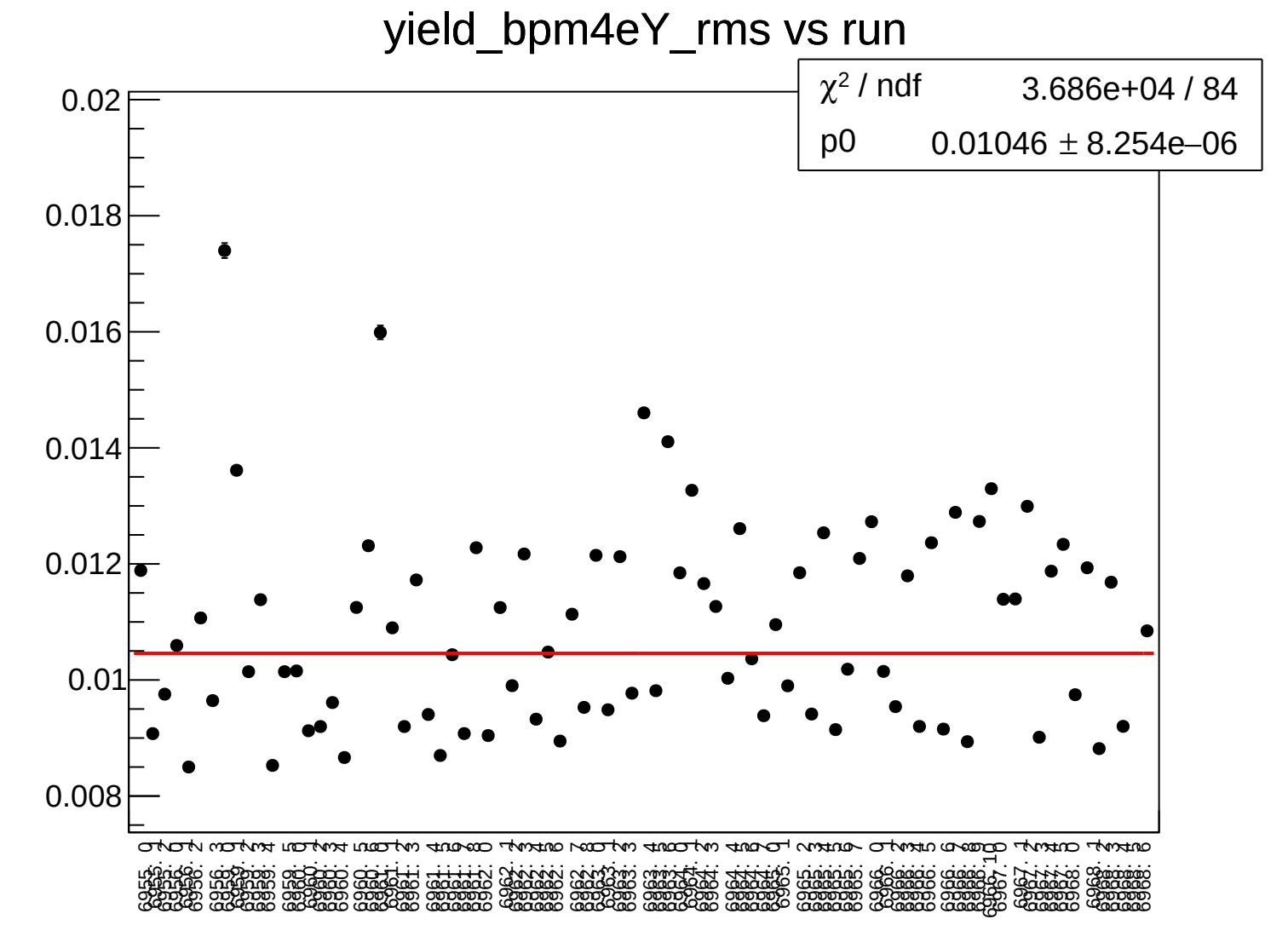

yield_bpm4aY_rms vs run
χ² / ndf 2.515e+04 / 84
p0 0.01256 ± 9.878e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

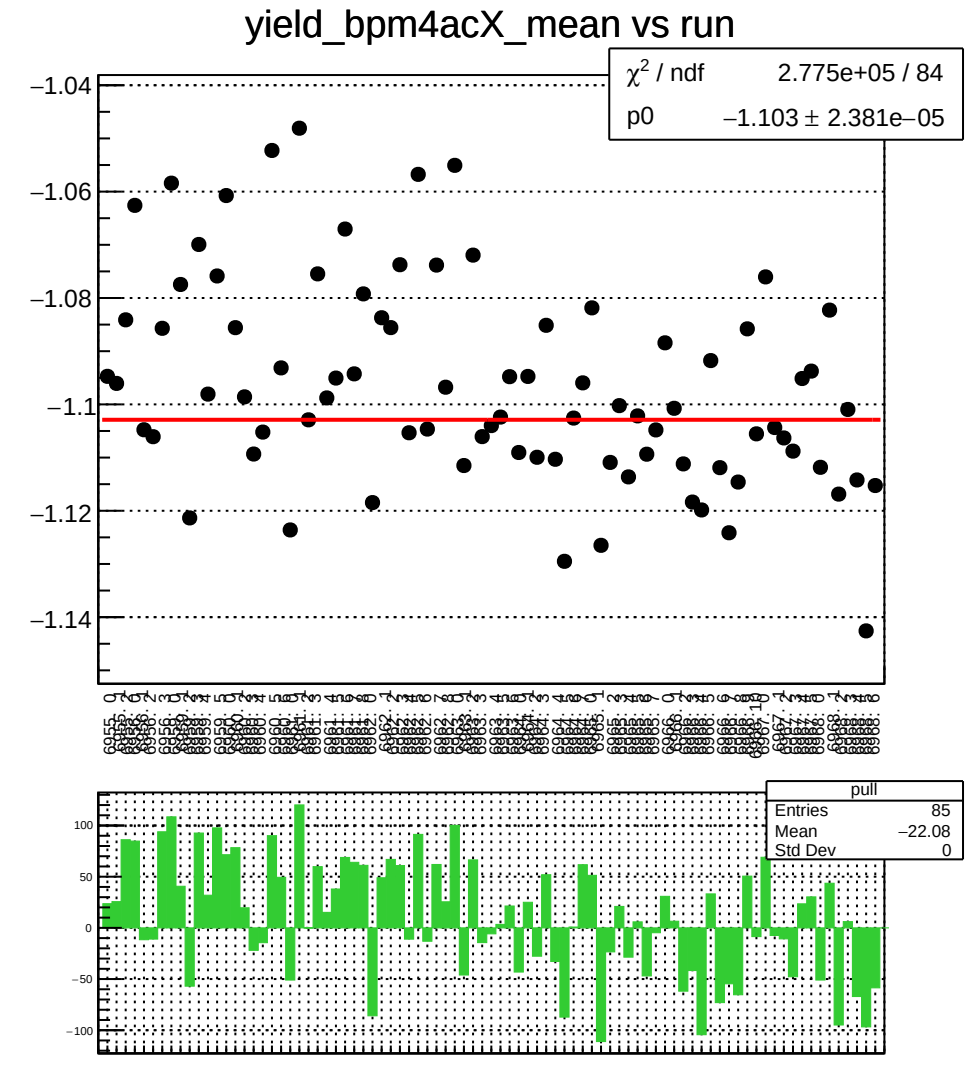

yield_bpm4eX_mean vs run
χ² / ndf 2.882e+05 / 84
p0 −0.3237 ± 2.303e−05
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 85
Mean −25.59
Std Dev 0
100
50
0
−50
−100

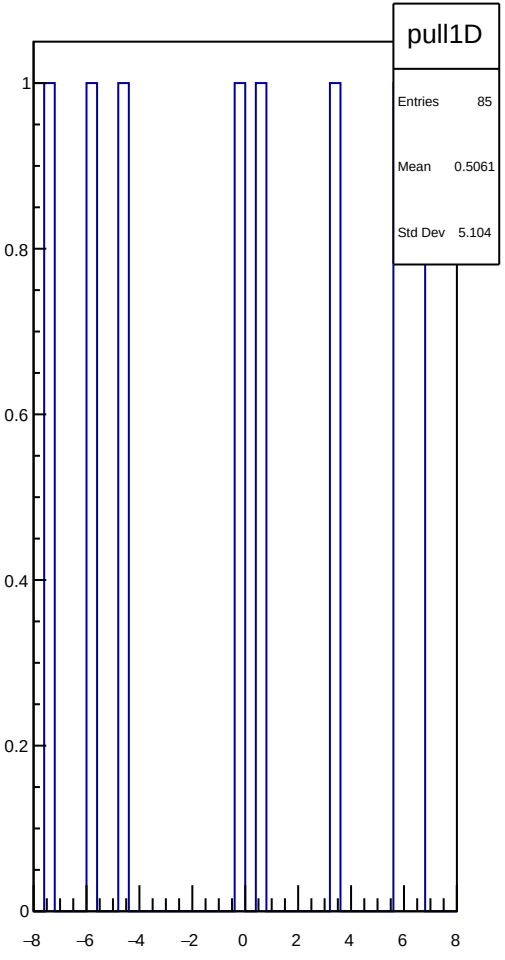

pull1D
Entries 85
Mean −0.1345
Std Dev 5.432
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

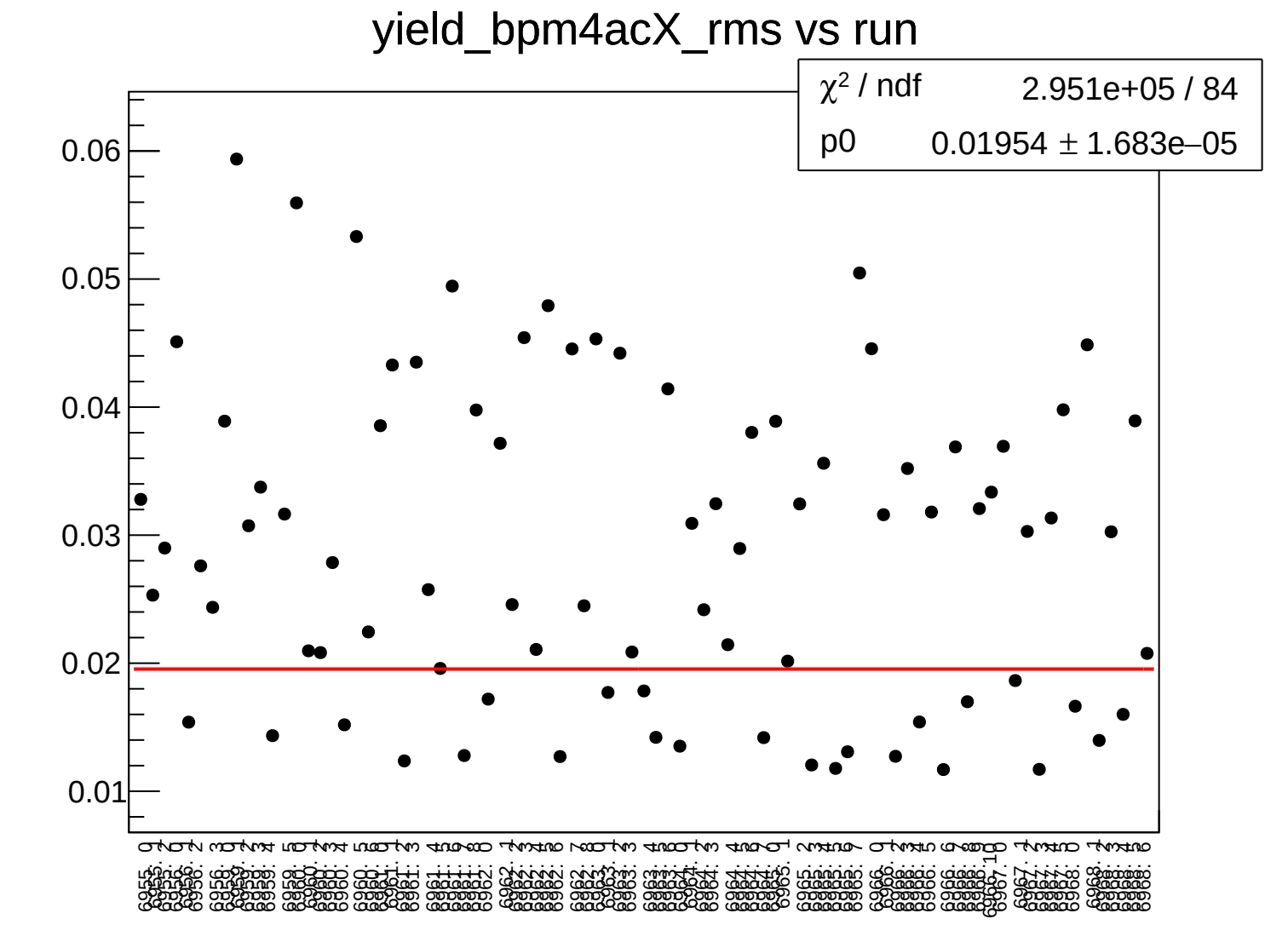

yield_bpm4eX_rms vs run
χ² / ndf 2.903e+05 / 84
p0 0.01894 ± 1.628e−05
0.05
0.04
0.03
0.02
0.01

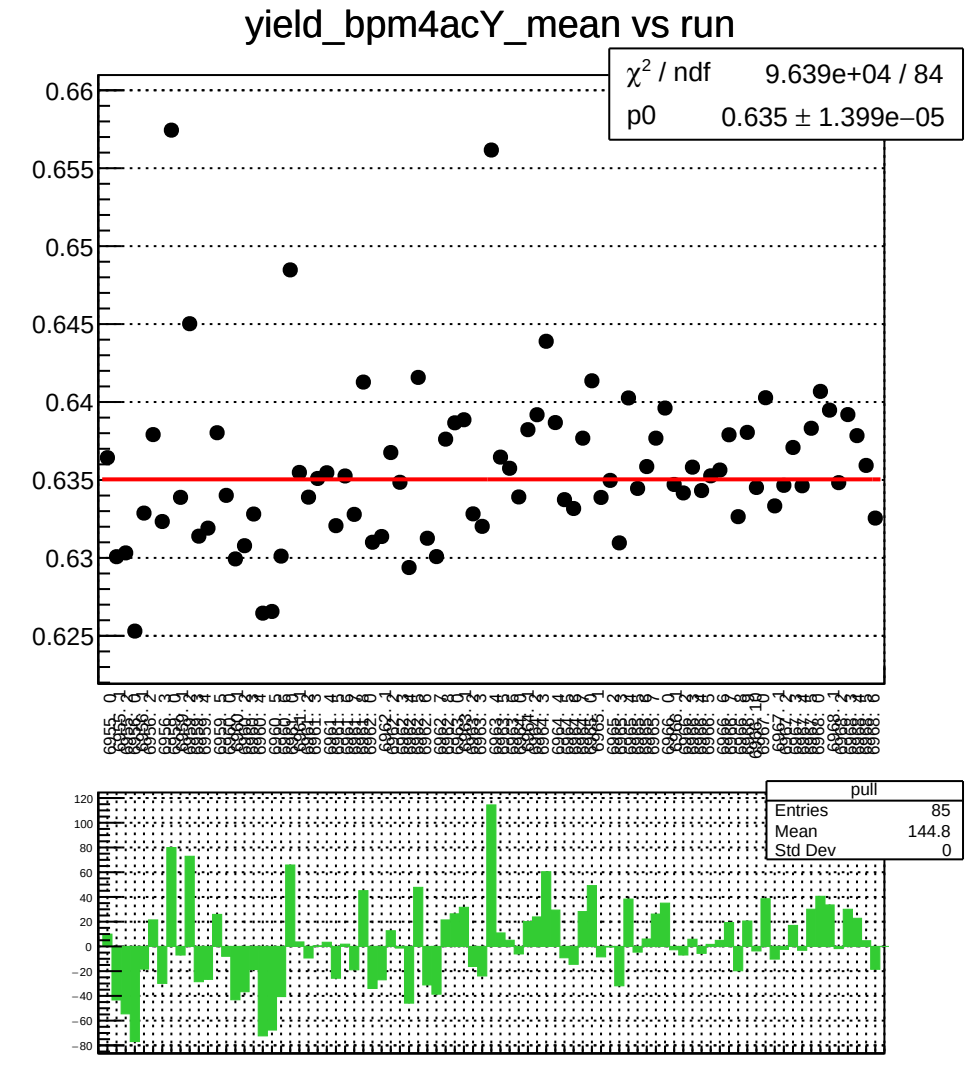

yield_bpm4eY_mean vs run
χ² / ndf 7.491e+04 / 84
p0 0.2928 ± 1.167e−05
0.31
0.305
0.3
0.295
0.29
0.285
pull
Entries 85
Mean 58.9
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 85
Mean −1.422
Std Dev 4.657
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

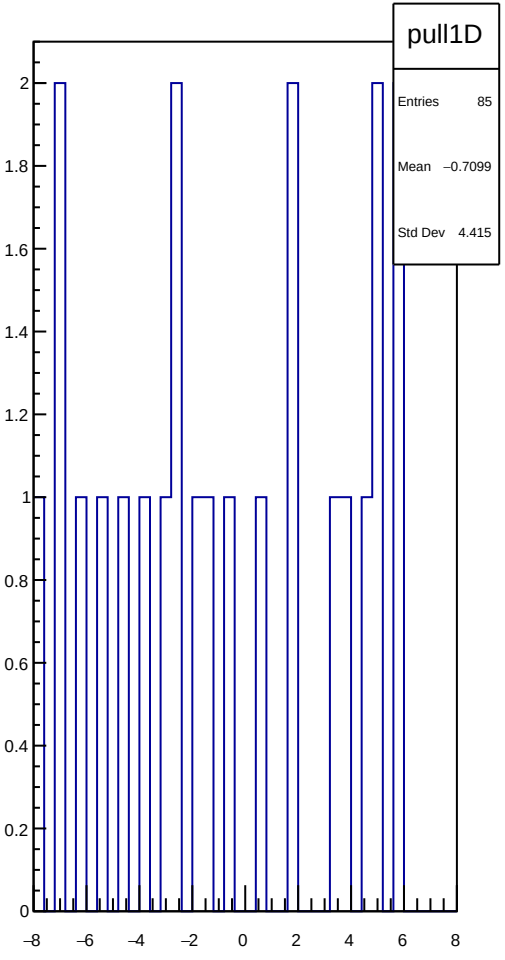

yield_bpm4eY_rms vs run
χ² / ndf 3.686e+04 / 84
p0 0.01046 ± 8.254e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

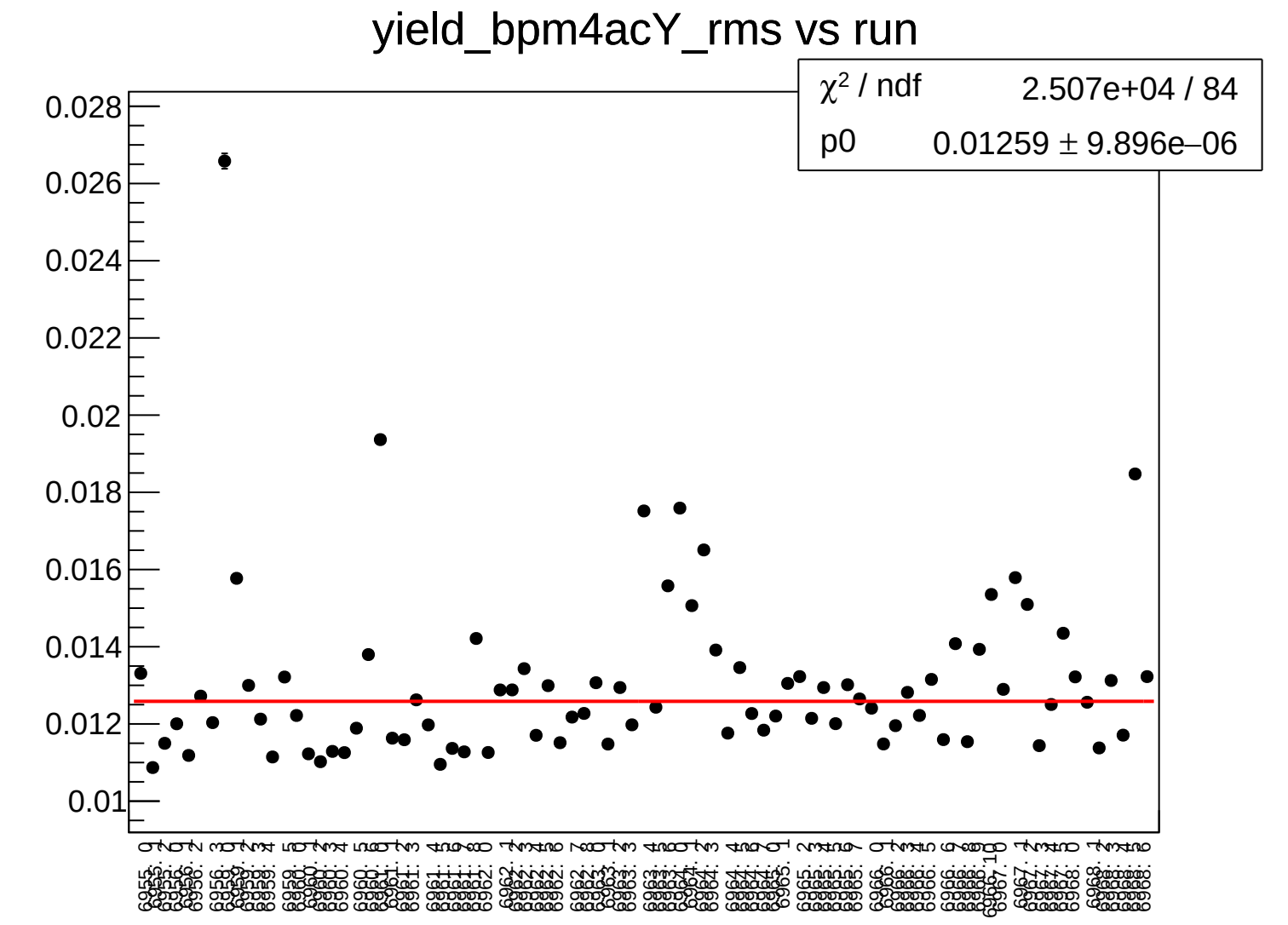

yield_bpm4acX_mean vs run
χ² / ndf 2.775e+05 / 84
p0 −1.103 ± 2.381e−05
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
pull
Entries 85
Mean −22.08
Std Dev 0
100
50
0
−50
−100

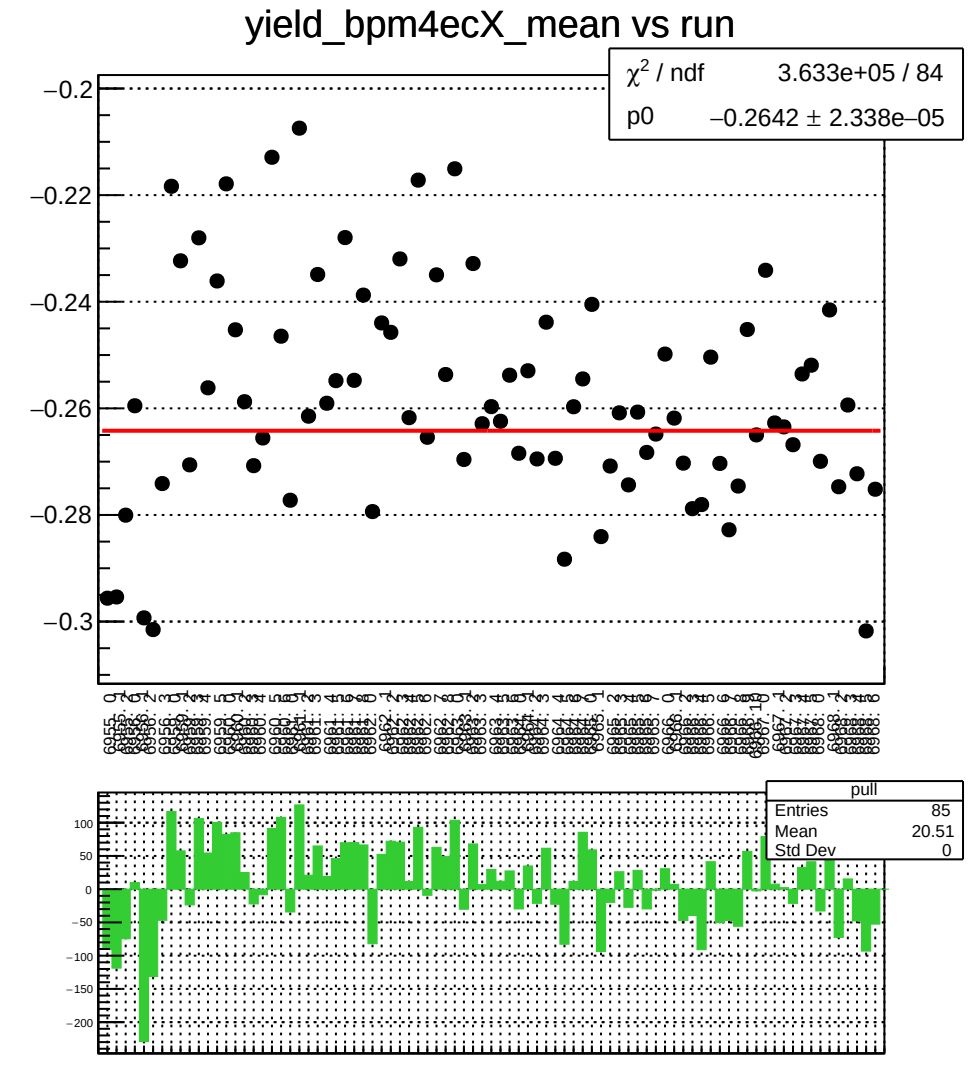

pull1D
Entries 85
Mean 0.5061
Std Dev 5.104
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

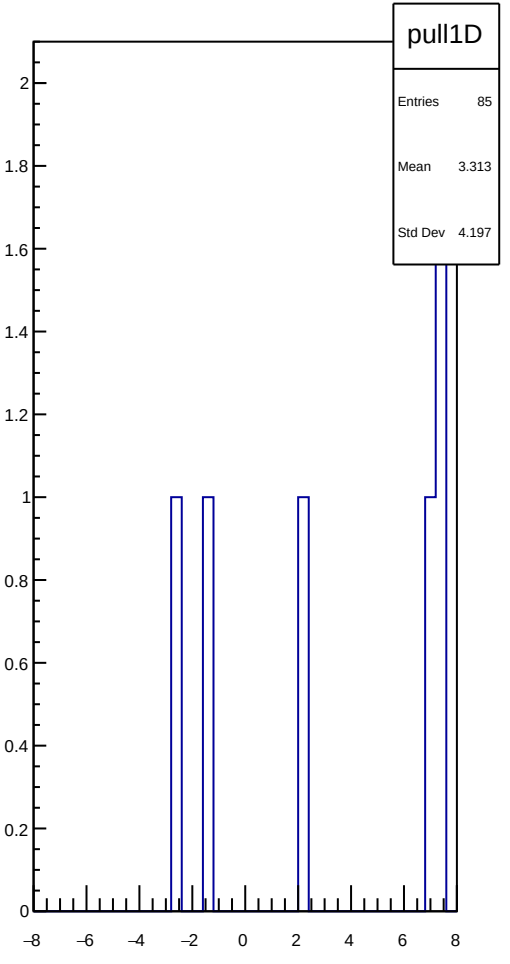

yield_bpm4acX_rms vs run
χ² / ndf 2.951e+05 / 84
p0 0.01954 ± 1.683e−05
0.06
0.05
0.04
0.03
0.02
0.01

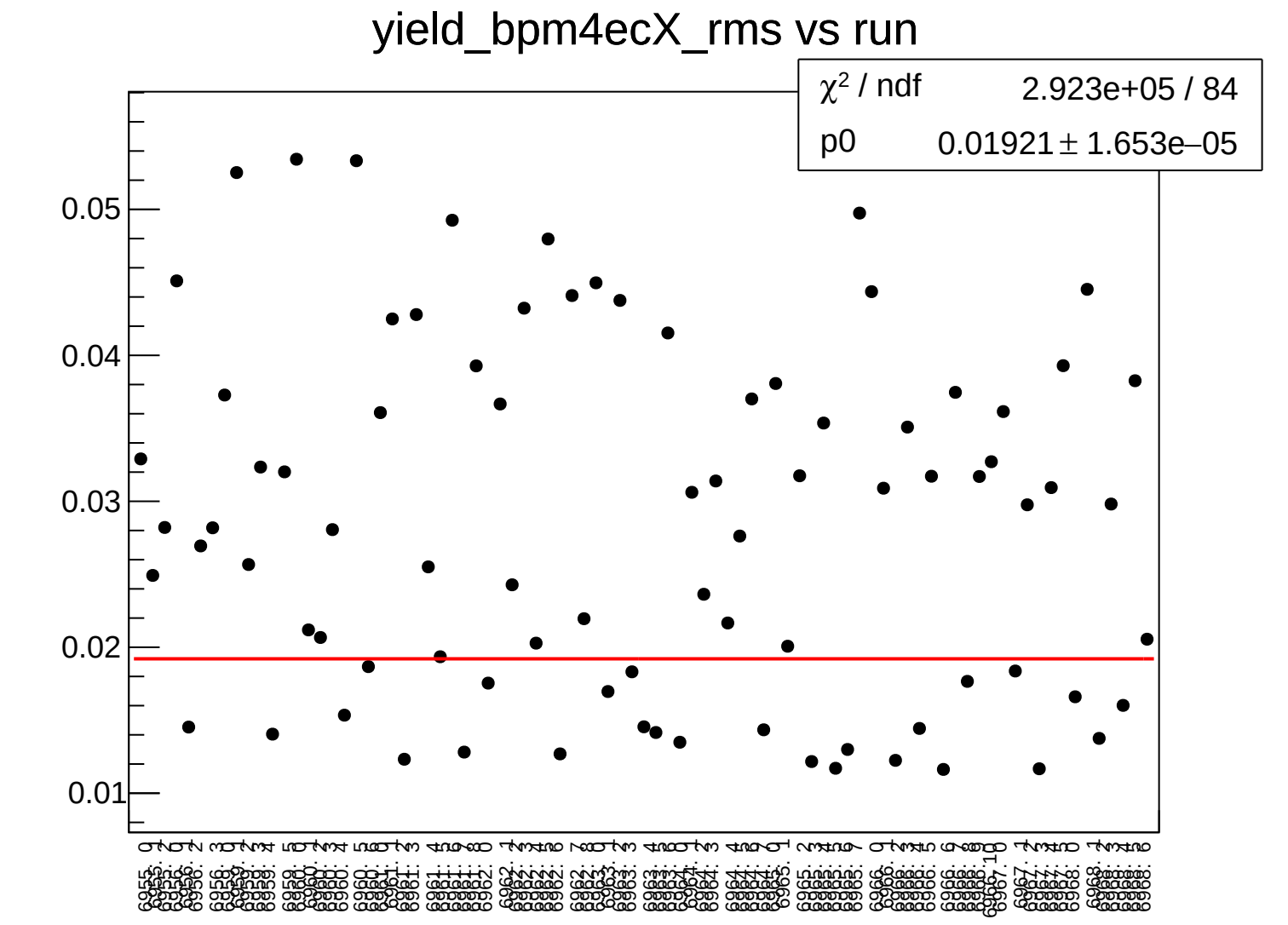

yield_bpm4acY_mean vs run
χ² / ndf 9.639e+04 / 84
p0 0.635 ± 1.399e−05
0.66
0.655
0.65
0.645
0.64
0.635
0.63
0.625
pull
Entries 85
Mean 144.8
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

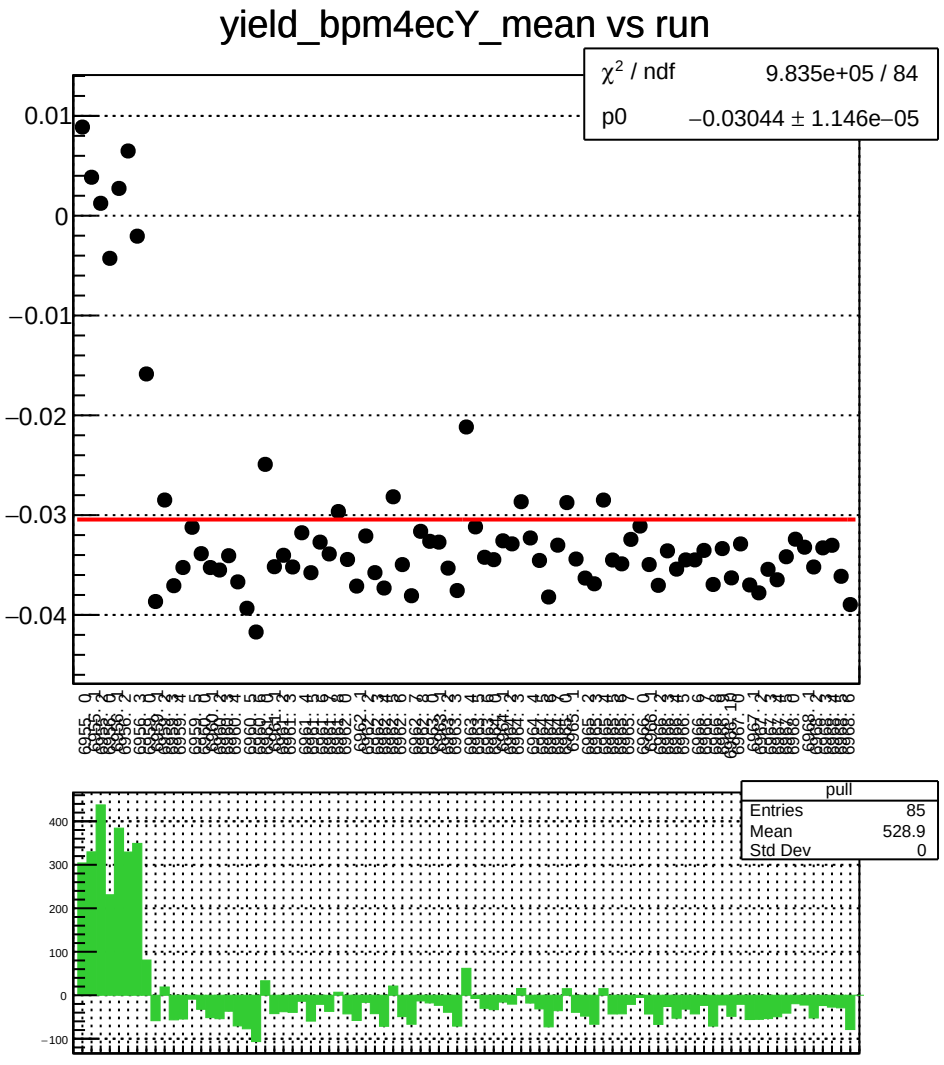

pull1D
Entries 85
Mean −0.7099
Std Dev 4.415
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

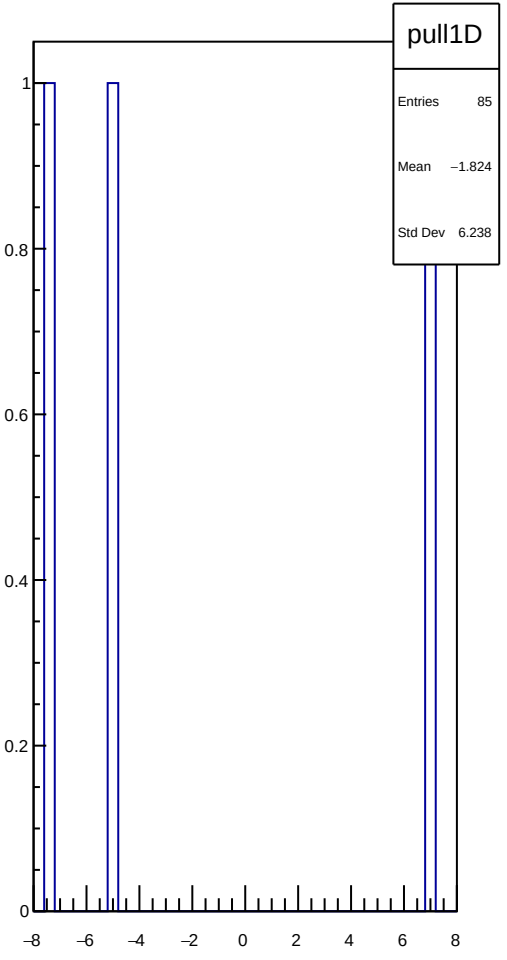

yield_bpm4acY_rms vs run
χ² / ndf 2.507e+04 / 84
p0 0.01259 ± 9.896e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

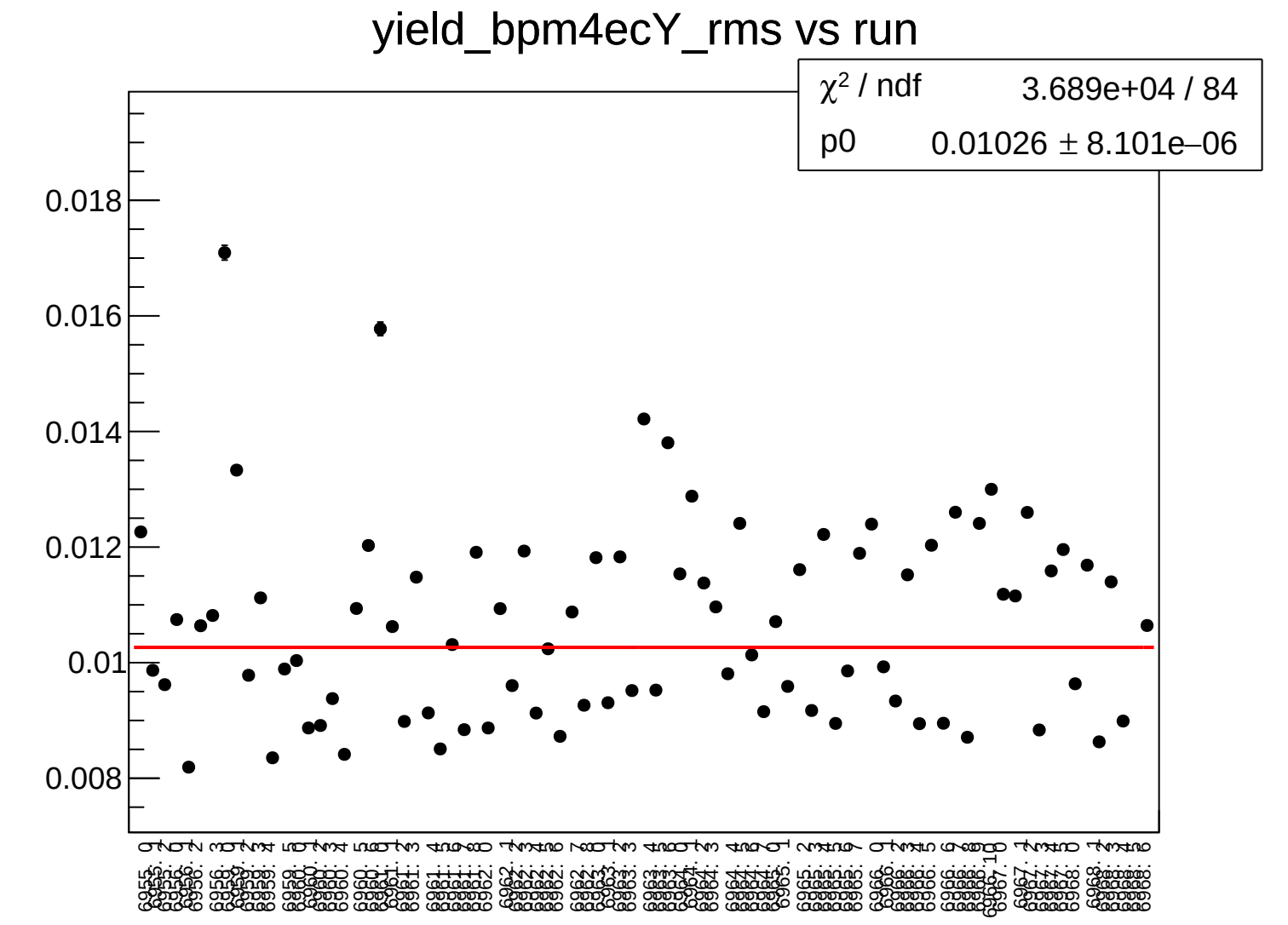

yield_bpm4ecX_mean vs run
χ² / ndf 3.633e+05 / 84
p0 −0.2642 ± 2.338e−05
pull
Entries 85
Mean 20.51
Std Dev 0

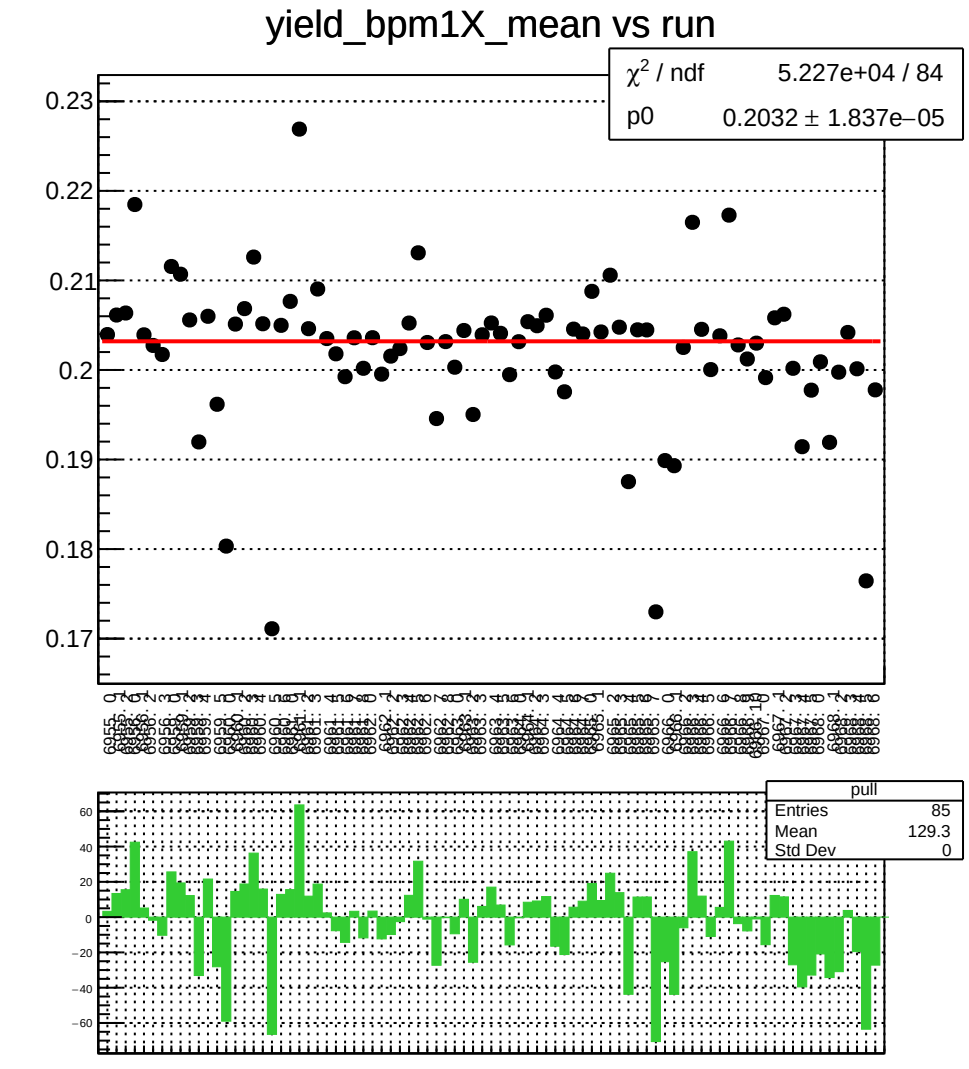

pull1D
Entries 85
Mean 3.313
Std Dev 4.197

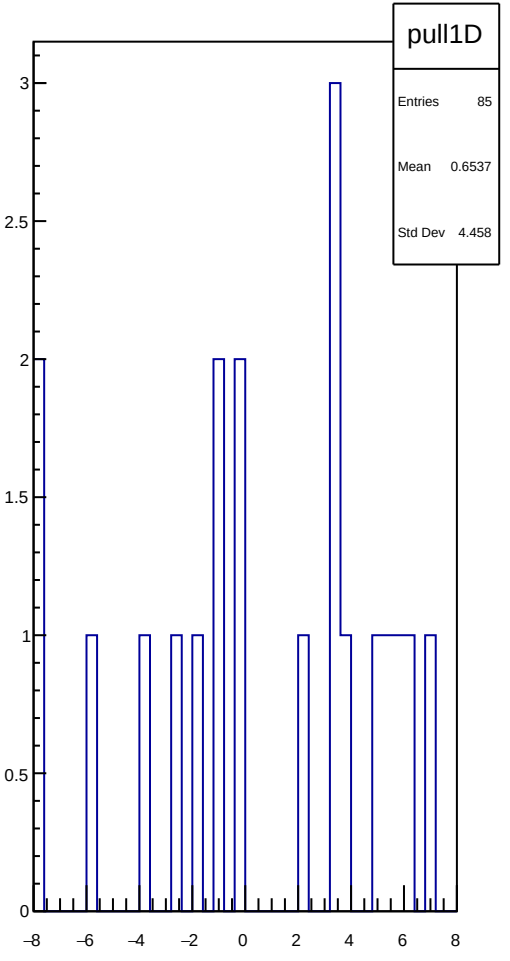

yield_bpm4ecX_rms vs run
χ² / ndf 2.923e+05 / 84
p0 0.01921 ± 1.653e–05
0.05
0.04
0.03
0.02
0.01

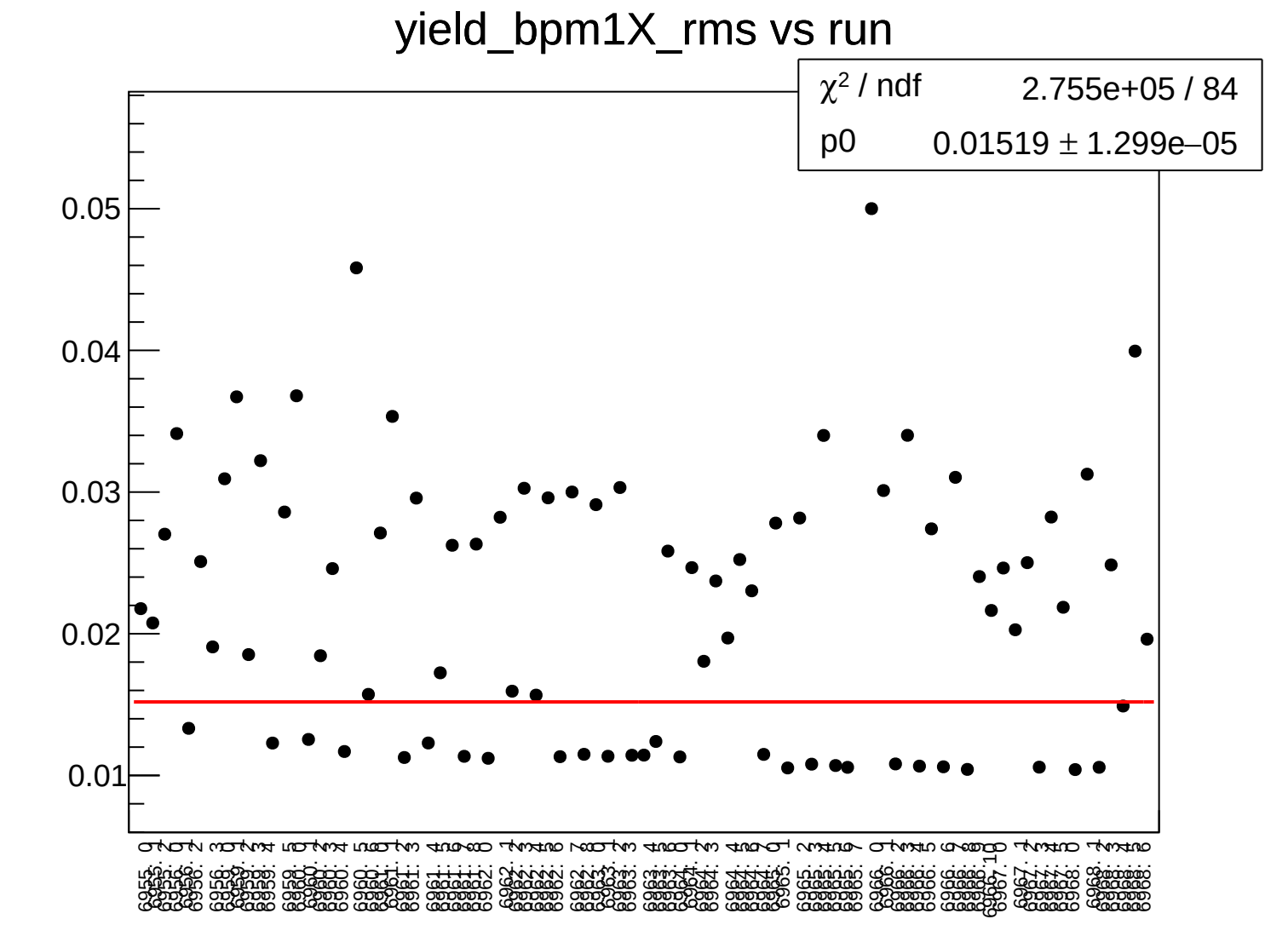

yield_bpm4ecY_mean vs run
χ² / ndf 9.835e+05 / 84
p0 −0.03044 ± 1.146e−05
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 85
Mean 528.9
Std Dev 0
400
300
200
100
0
−100

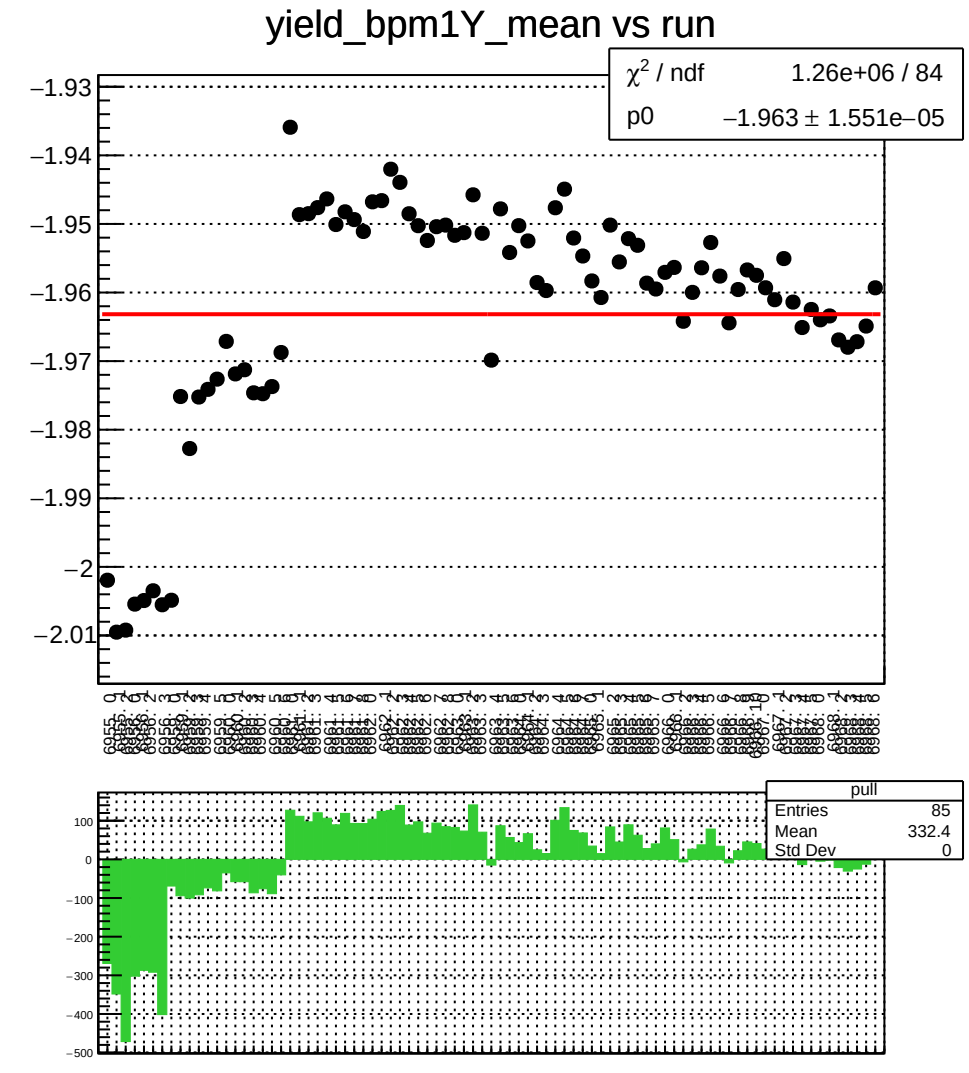

pull1D
Entries 85
Mean −1.824
Std Dev 6.238
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

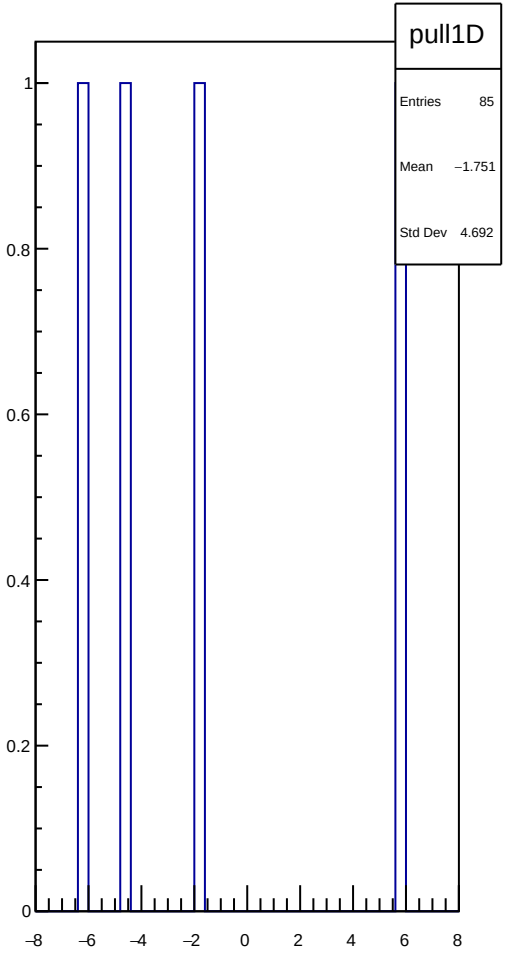

yield_bpm4ecY_rms vs run
χ² / ndf 3.689e+04 / 84
p0 0.01026 ± 8.101e–06
0.018
0.016
0.014
0.012
0.01
0.008

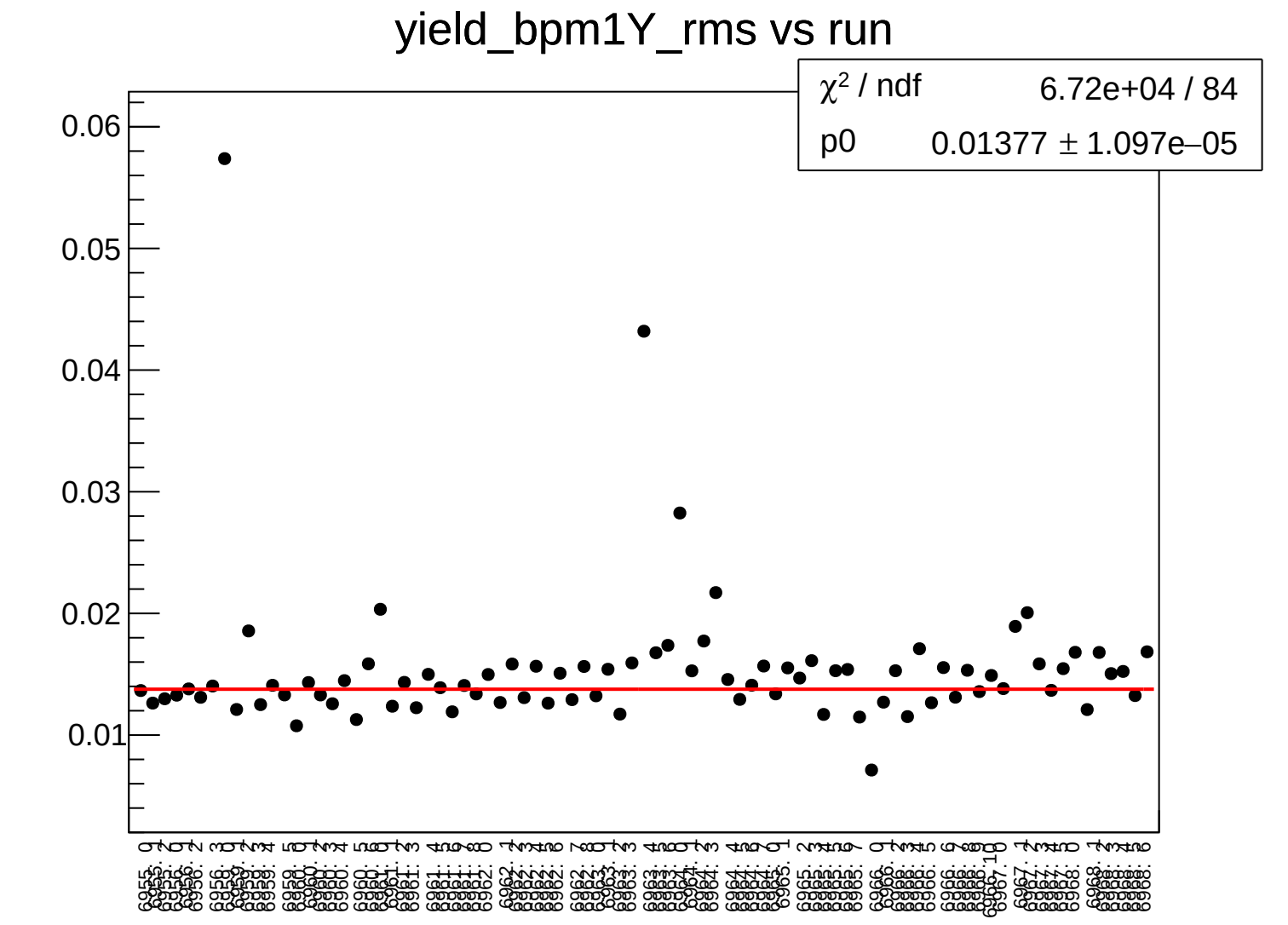

yield_bpm1X_mean vs run
χ² / ndf 5.227e+04 / 84
p0 0.2032 ± 1.837e−05
0.23
0.22
0.21
0.2
0.19
0.18
0.17
pull
Entries 85
Mean 129.3
Std Dev 0
60
40
20
0
−20
−40
−60

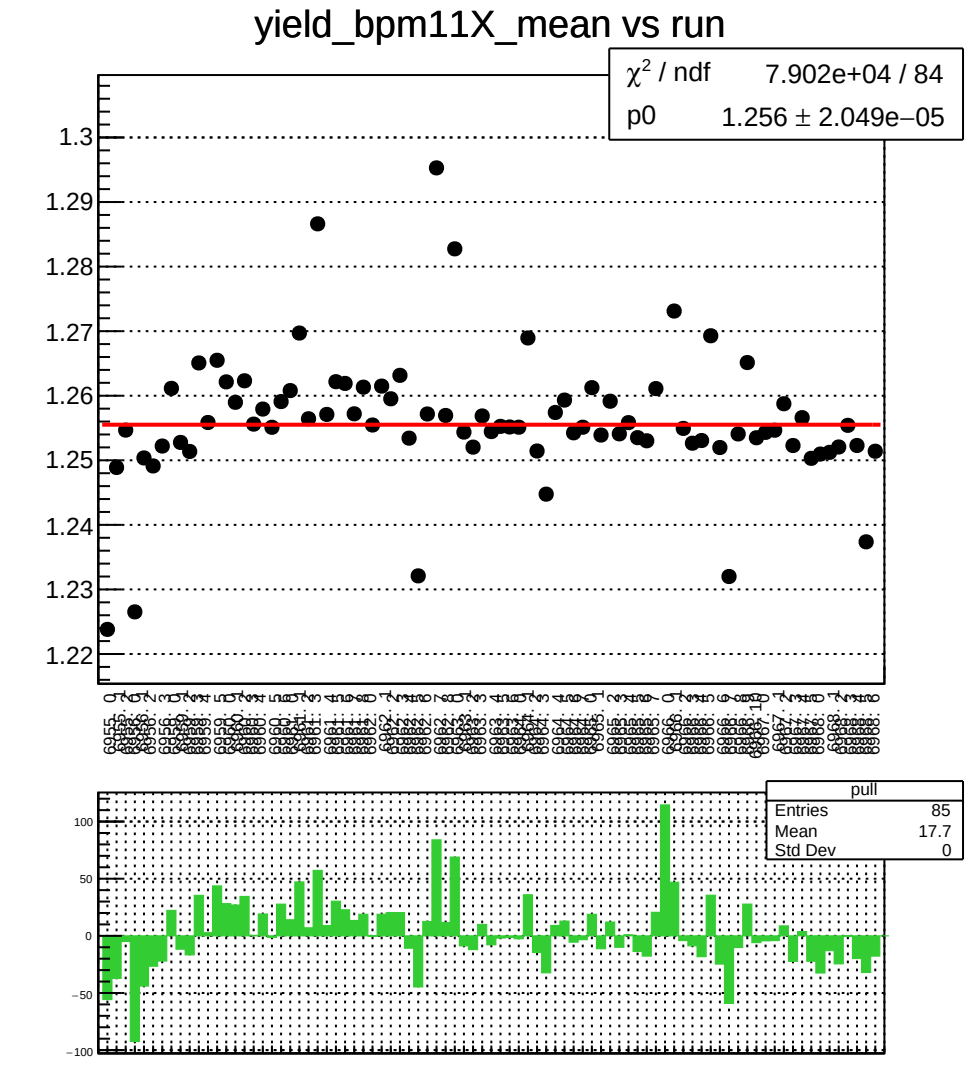

pull1D
Entries 85
Mean 0.6537
Std Dev 4.458
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

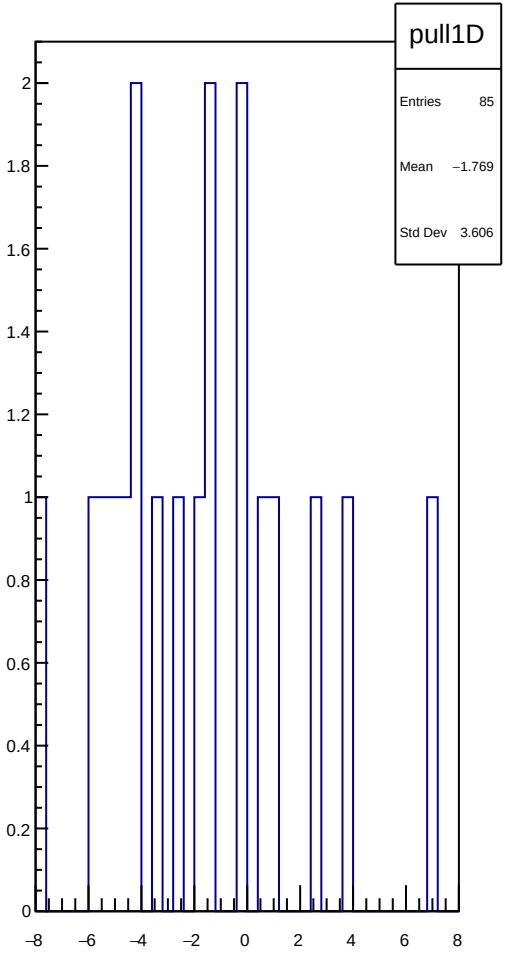

yield_bpm1X_rms vs run
χ² / ndf 2.755e+05 / 84
p0 0.01519 ± 1.299e−05
0.05
0.04
0.03
0.02
0.01

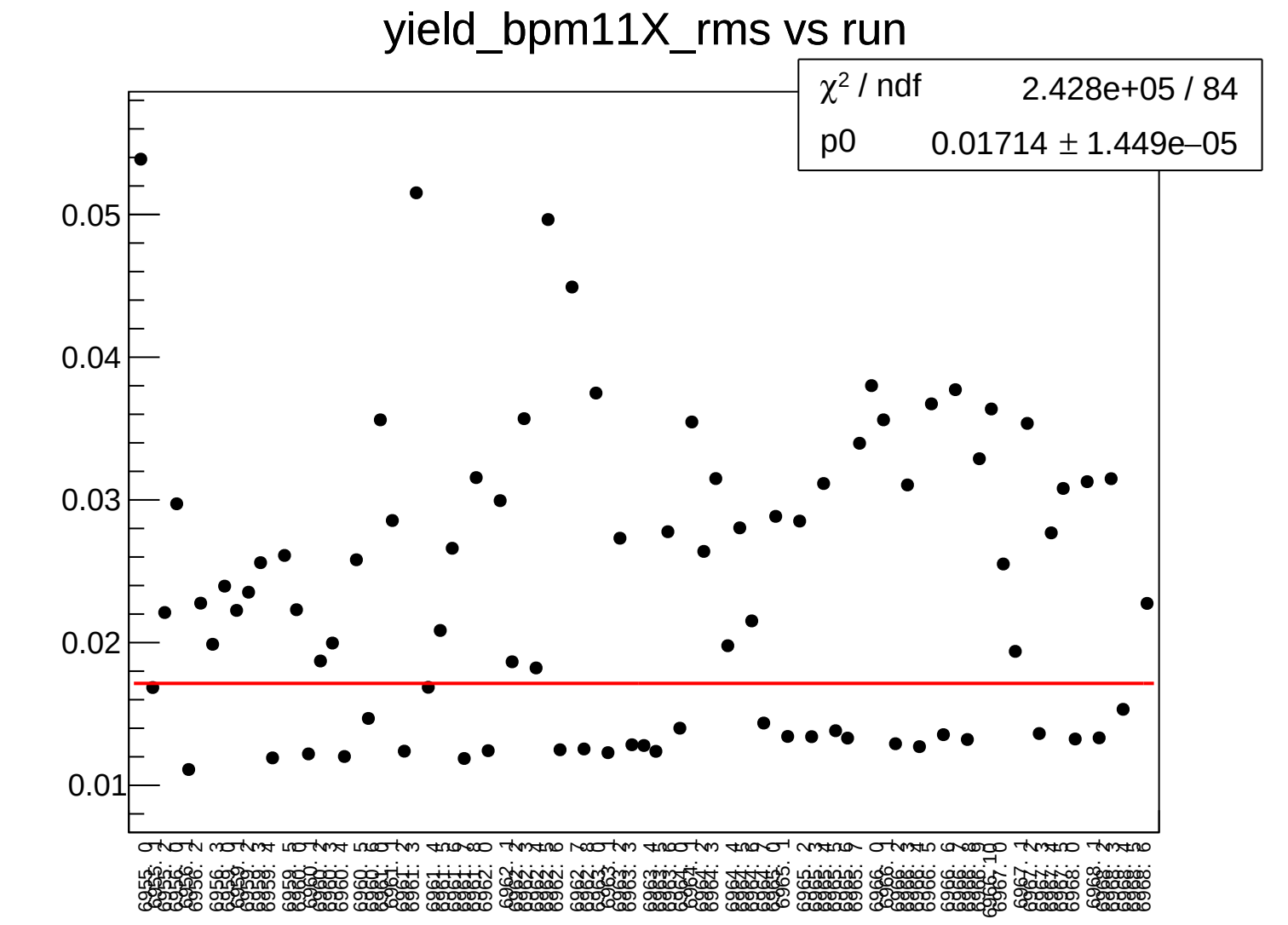

yield_bpm1Y_mean vs run
χ² / ndf 1.26e+06 / 84
p0 −1.963 ± 1.551e−05
−1.93
−1.94
−1.95
−1.96
−1.97
−1.98
−1.99
−2
−2.01
pull
Entries 85
Mean 332.4
Std Dev 0
100
0
−100
−200
−300
−400
−500

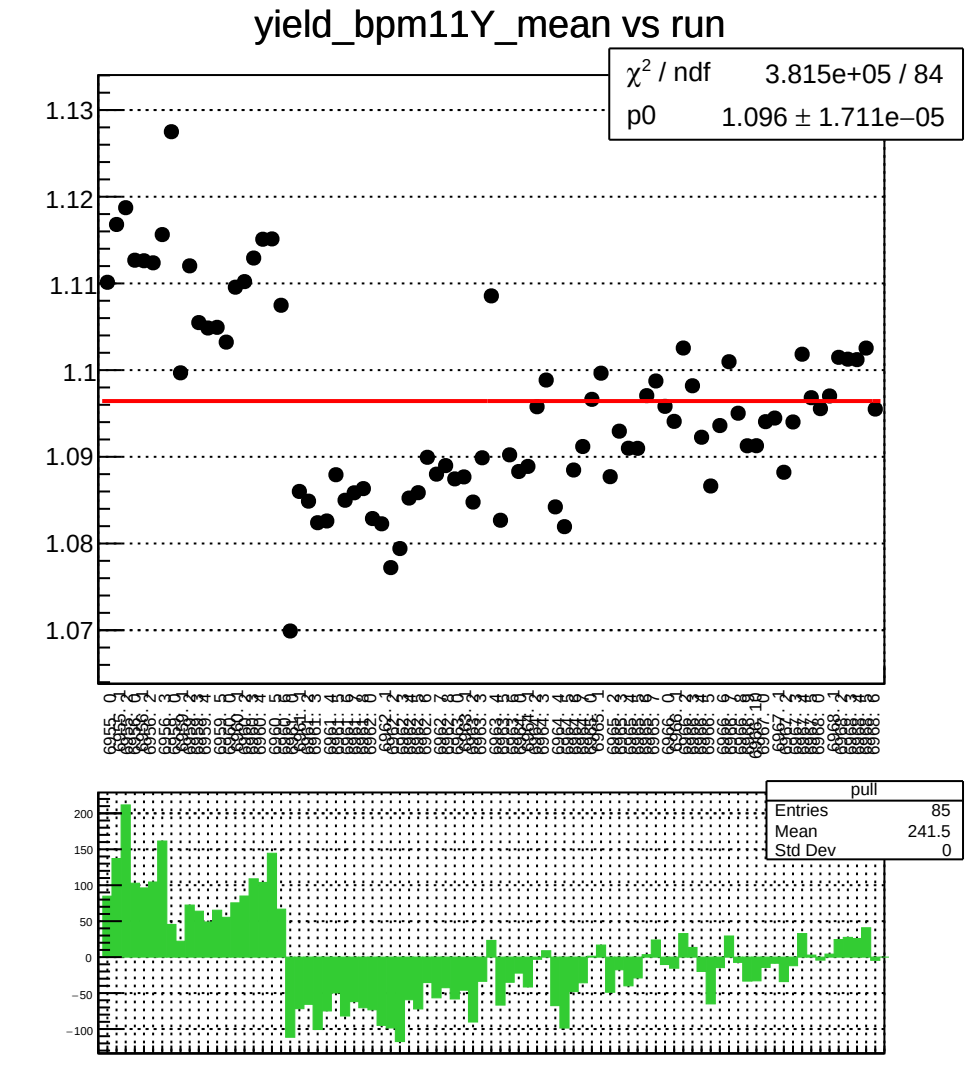

pull1D
Entries 85
Mean −1.751
Std Dev 4.692
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

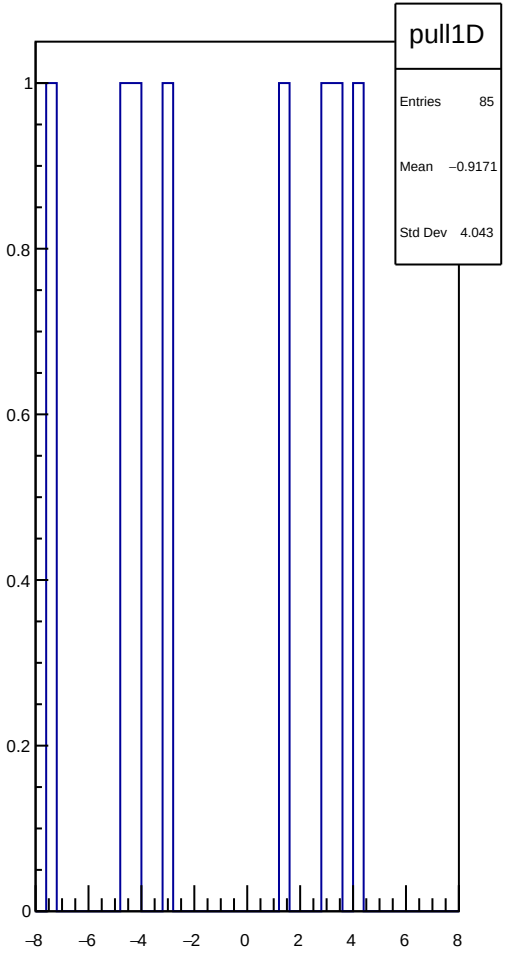

yield_bpm1Y_rms vs run
χ² / ndf 6.72e+04 / 84
p0 0.01377 ± 1.097e–05
0.06
0.05
0.04
0.03
0.02
0.01

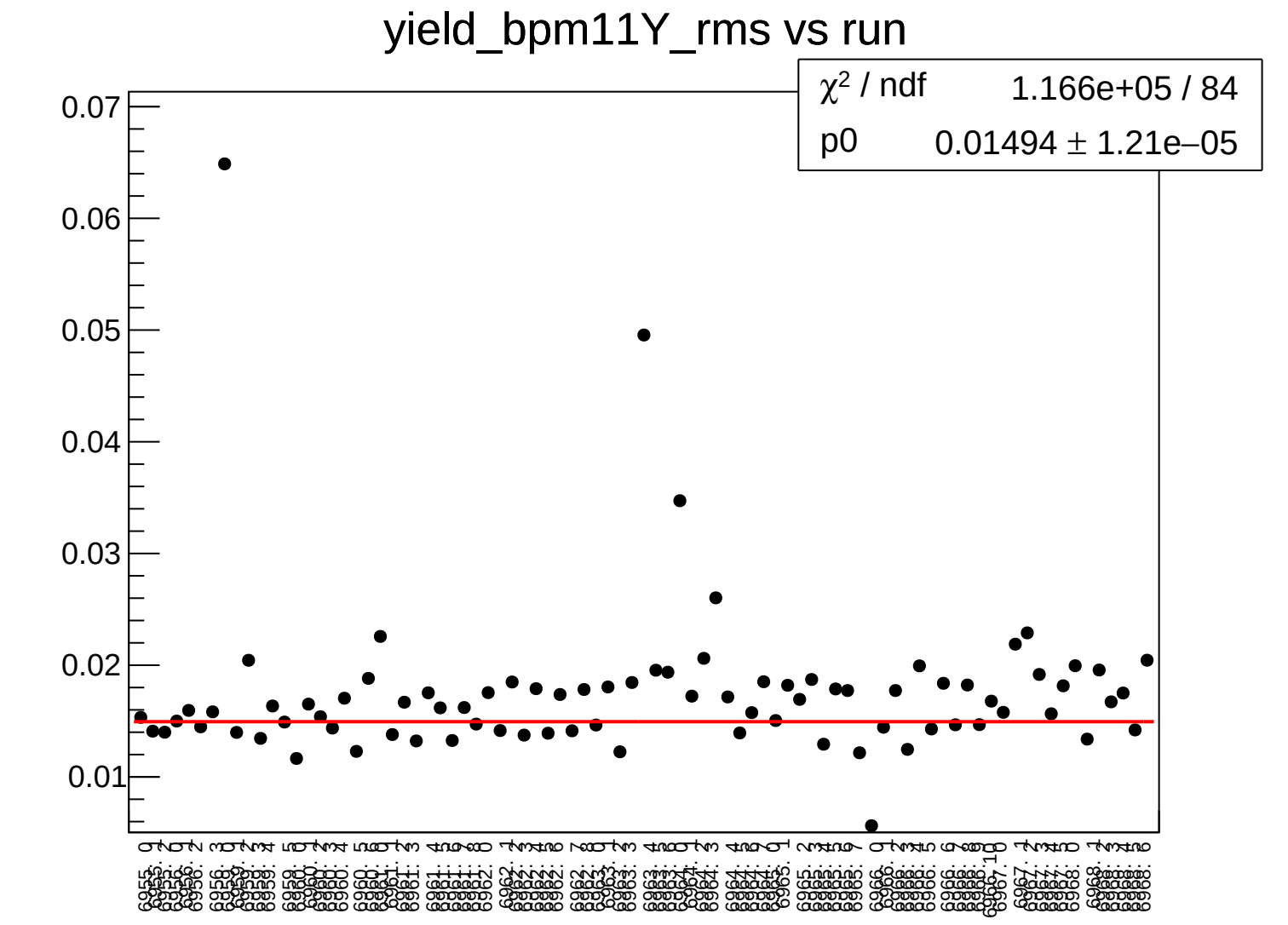

yield_bpm11X_mean vs run
χ² / ndf 7.902e+04 / 84
p0 1.256 ± 2.049e−05
pull
Entries 85
Mean 17.7
Std Dev 0

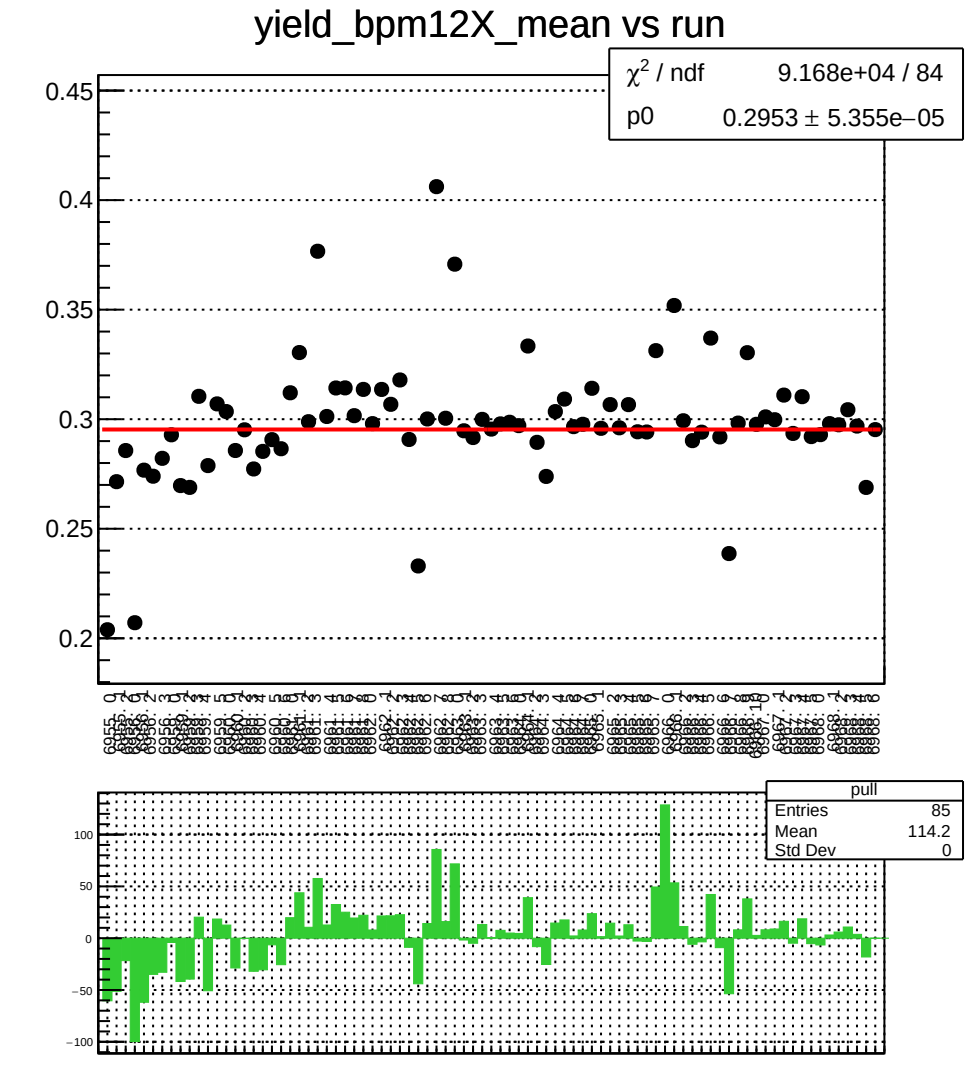

pull1D
Entries 85
Mean −1.769
Std Dev 3.606

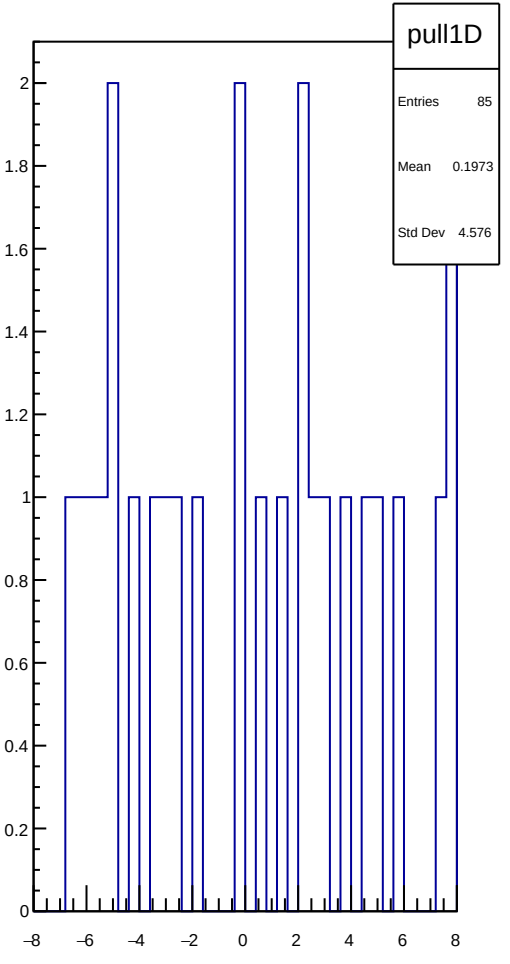

yield_bpm11X_rms vs run
χ² / ndf 2.428e+05 / 84
p0 0.01714 ± 1.449e−05
0.05
0.04
0.03
0.02
0.01

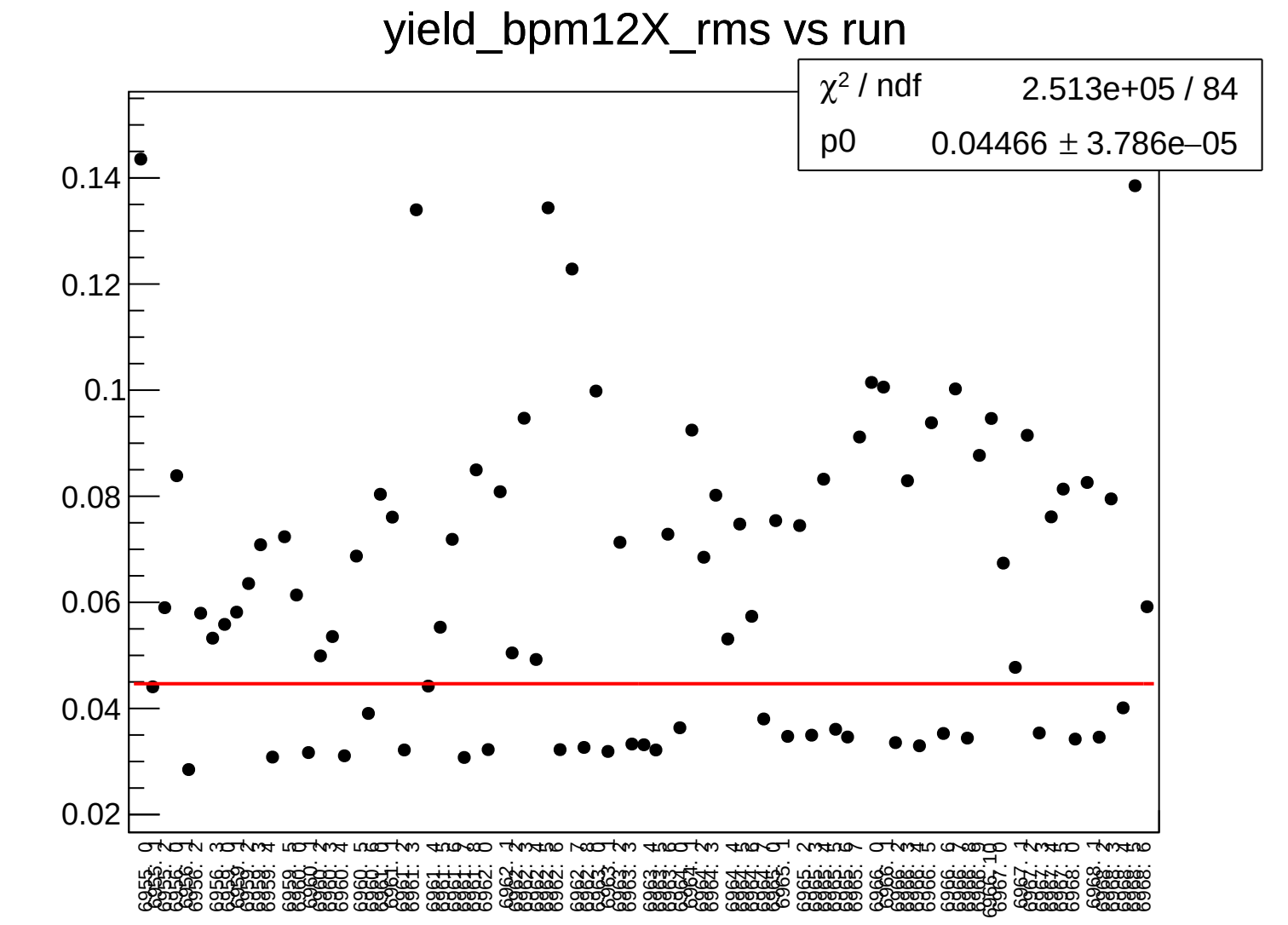

yield_bpm11Y_mean vs run
χ² / ndf 3.815e+05 / 84
p0 1.096 ± 1.711e−05
1.13
1.12
1.11
1.1
1.09
1.08
1.07
pull
Entries 85
Mean 241.5
Std Dev 0
200
150
100
50
0
−50
−100

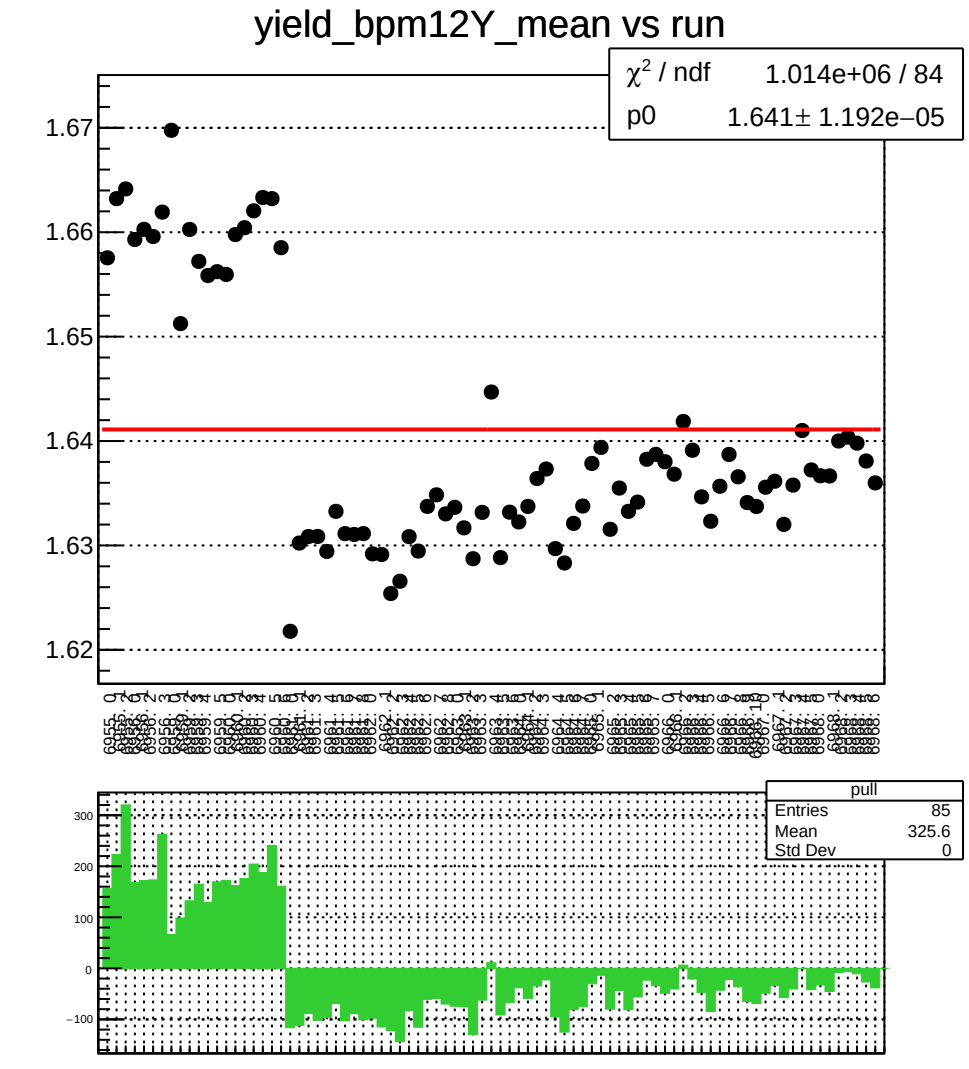

pull1D
Entries 85
Mean −0.9171
Std Dev 4.043
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

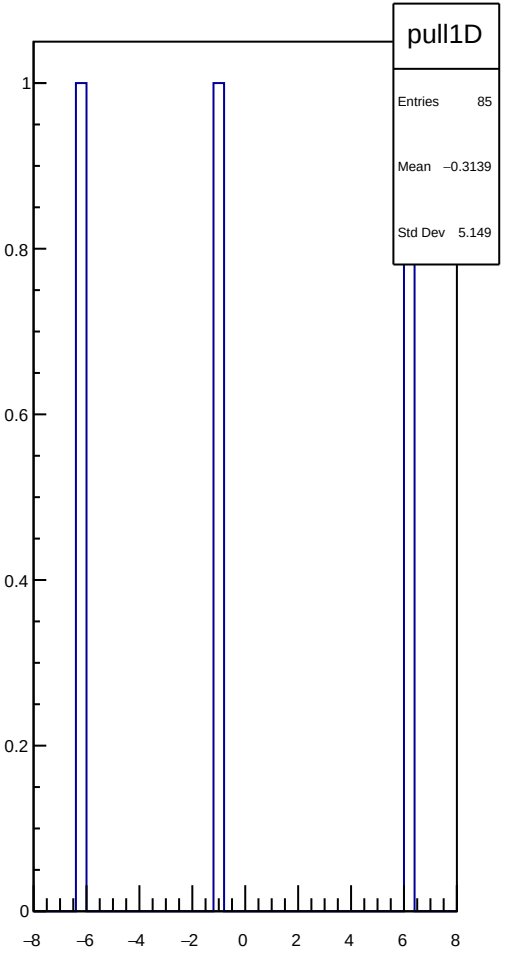

yield_bpm11Y_rms vs run
χ² / ndf 1.166e+05 / 84
p0 0.01494 ± 1.21e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

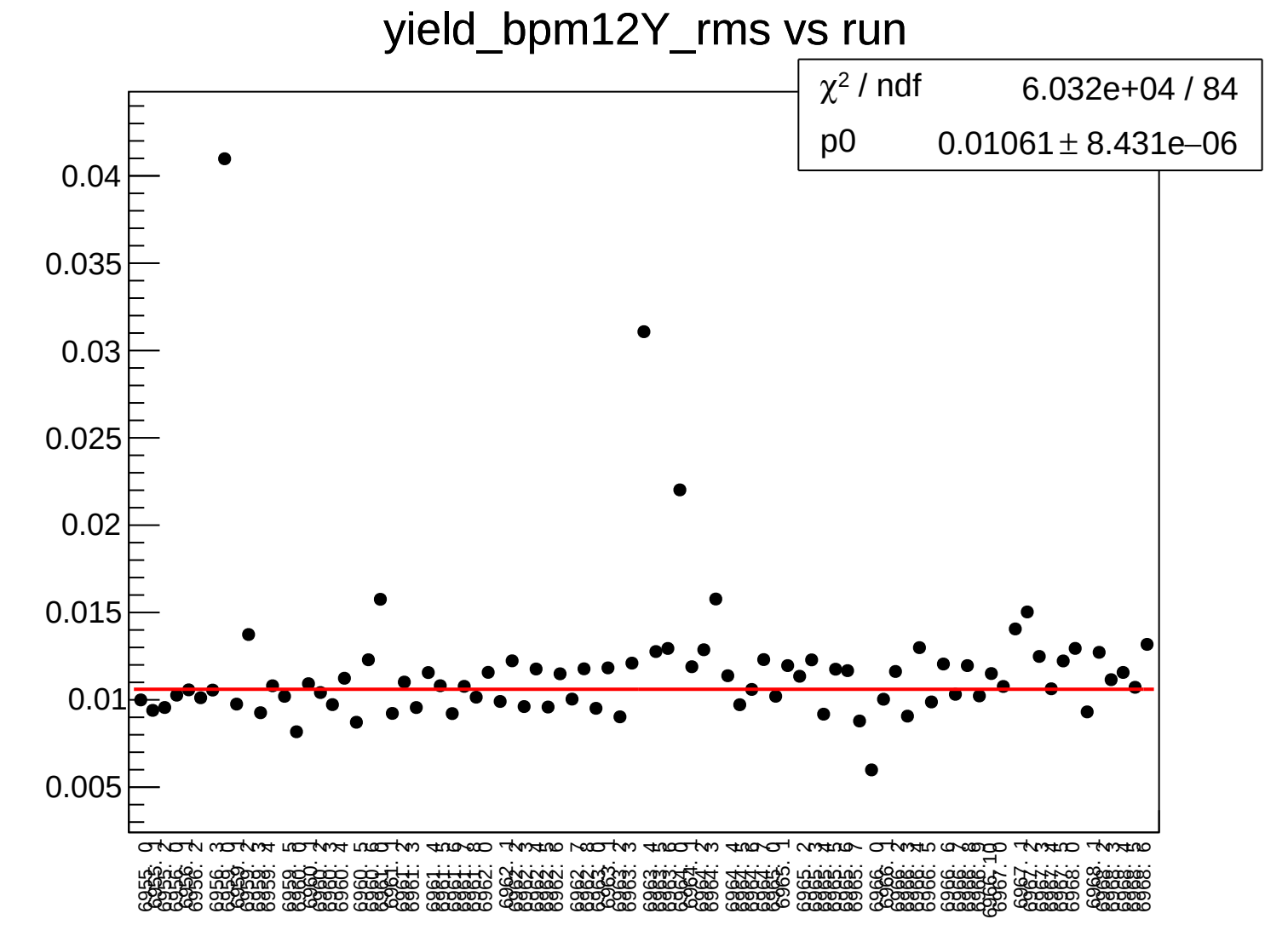

yield_bpm12X_mean vs run
χ² / ndf 9.168e+04 / 84
p0 0.2953 ± 5.355e−05
0.45
0.4
0.35
0.3
0.25
0.2
pull
Entries 85
Mean 114.2
Std Dev 0
100
50
0
−50
−100

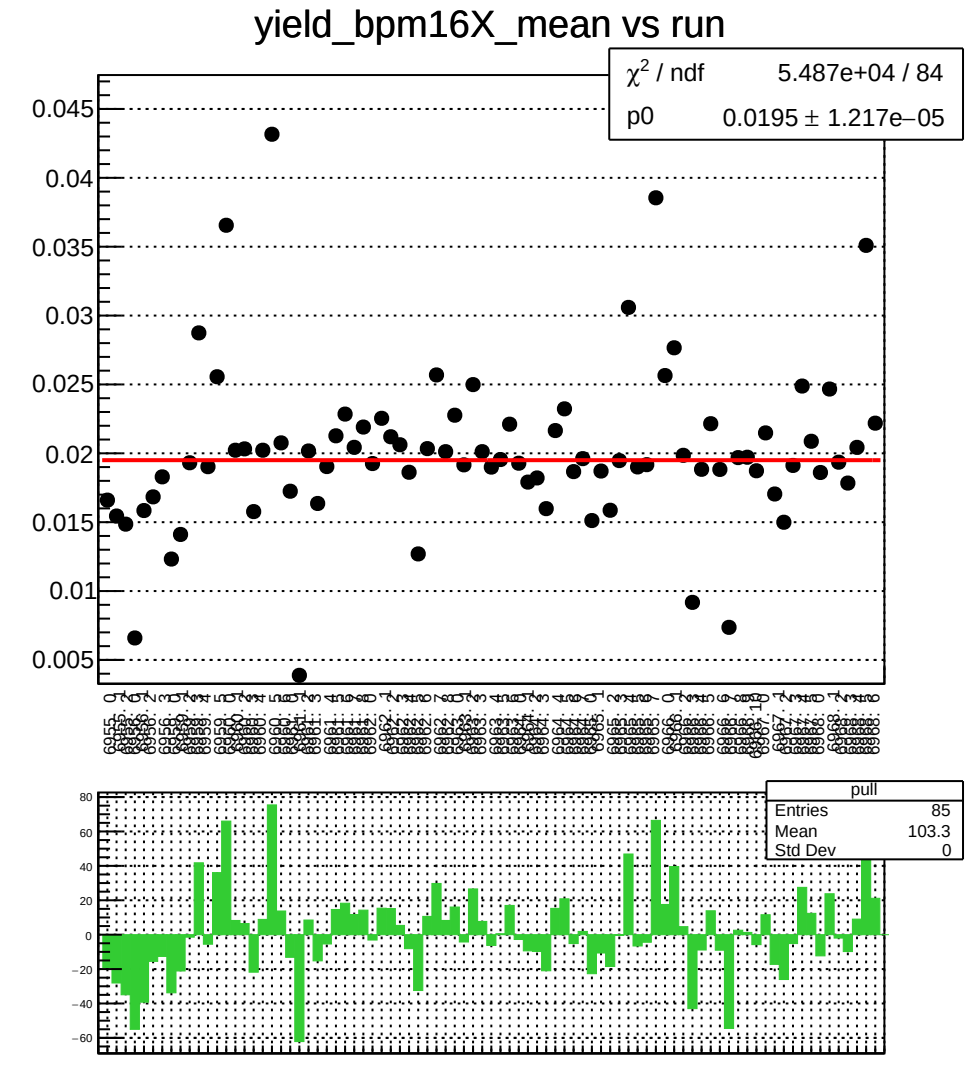

pull1D
Entries 85
Mean 0.1973
Std Dev 4.576
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

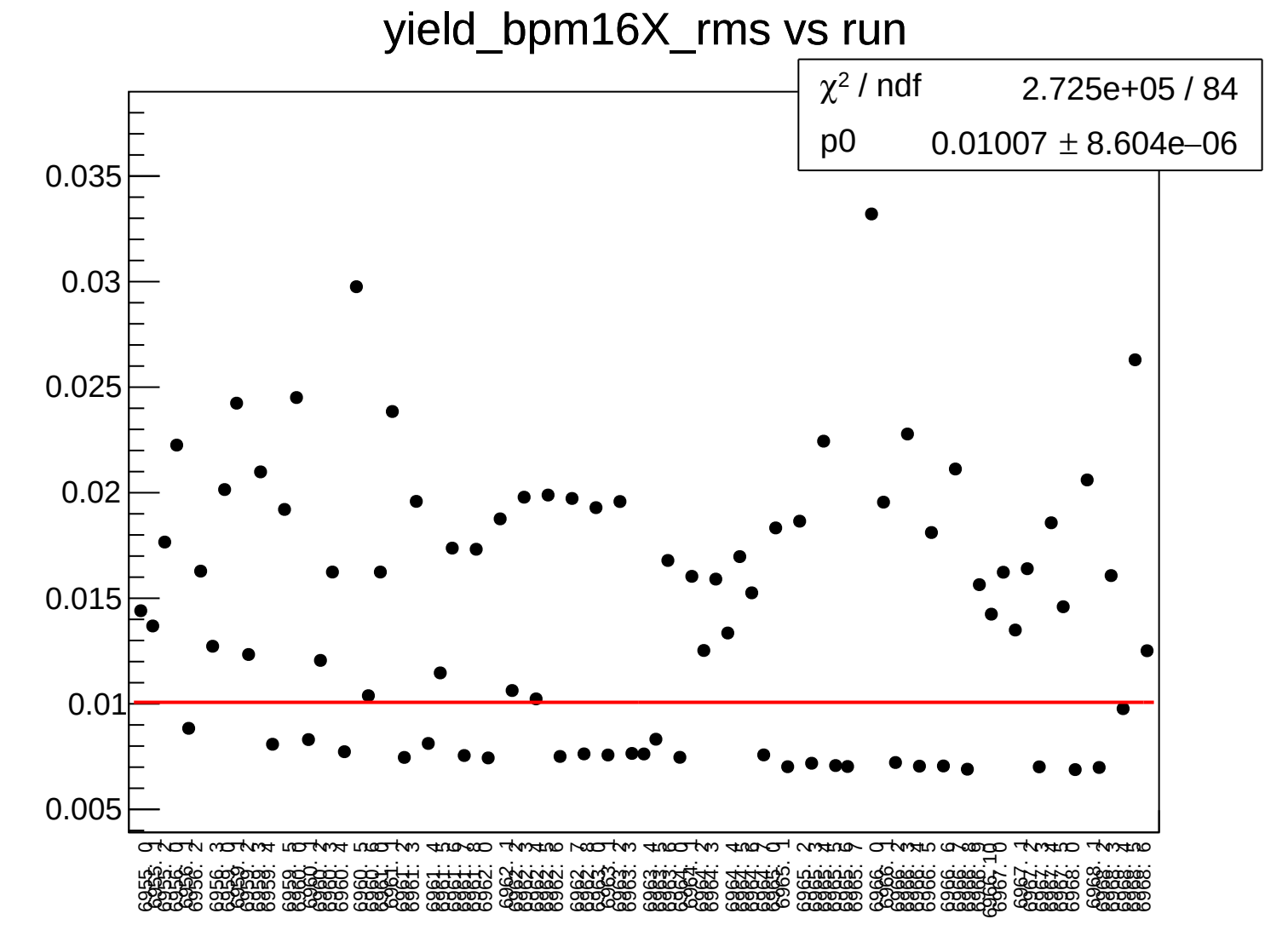

yield_bpm12X_rms vs run
χ² / ndf 2.513e+05 / 84
p0 0.04466 ± 3.786e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

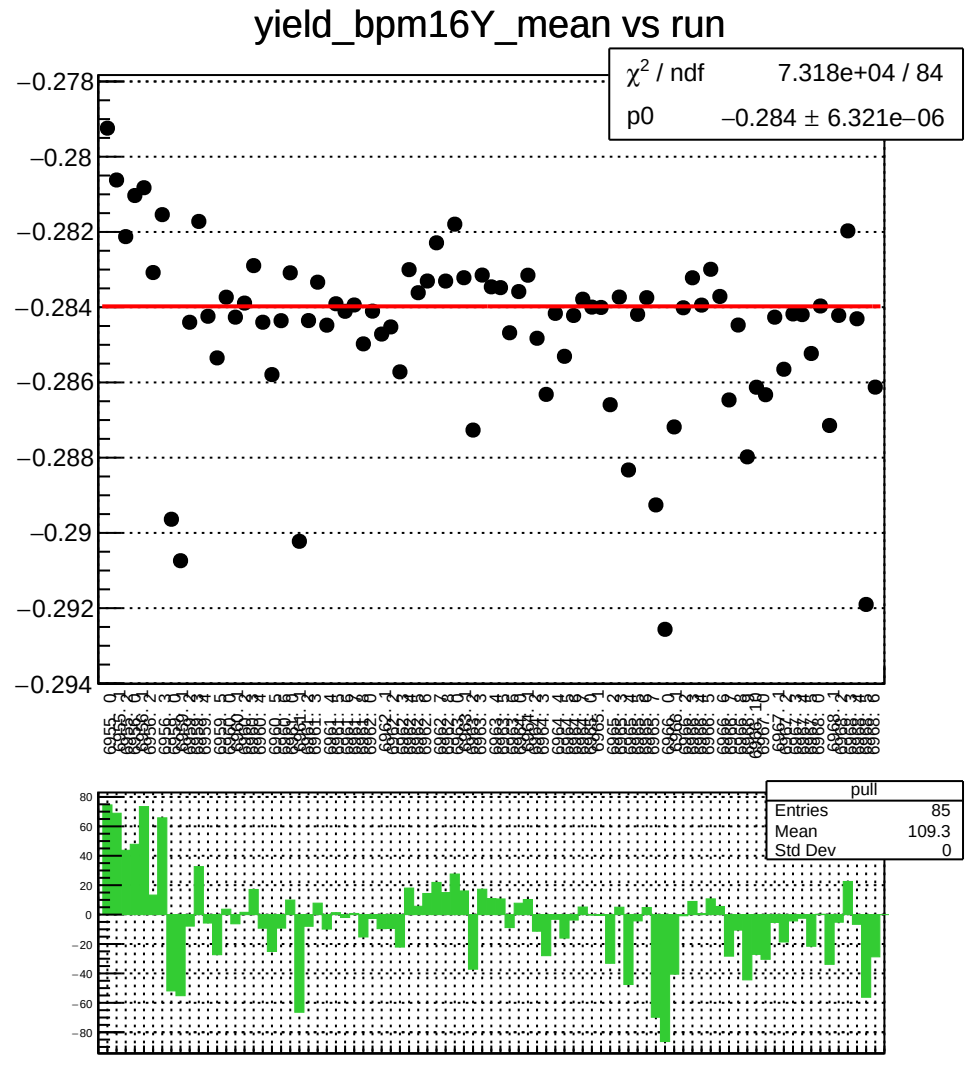

yield_bpm12Y_mean vs run
χ² / ndf 1.014e+06 / 84
p0 1.641± 1.192e−05
1.67
1.66
1.65
1.64
1.63
1.62
pull
Entries 85
Mean 325.6
Std Dev 0
300
200
100
0
−100

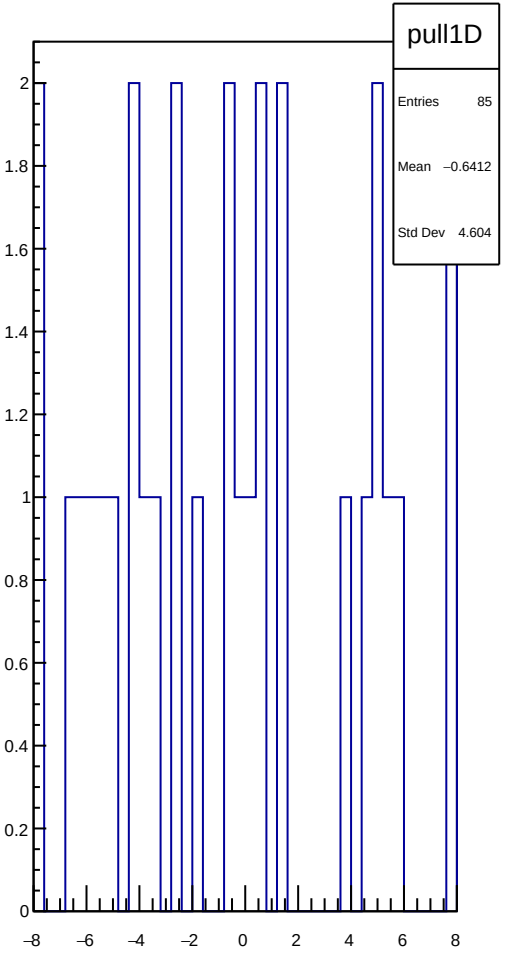

pull1D
Entries 85
Mean −0.3139
Std Dev 5.149
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

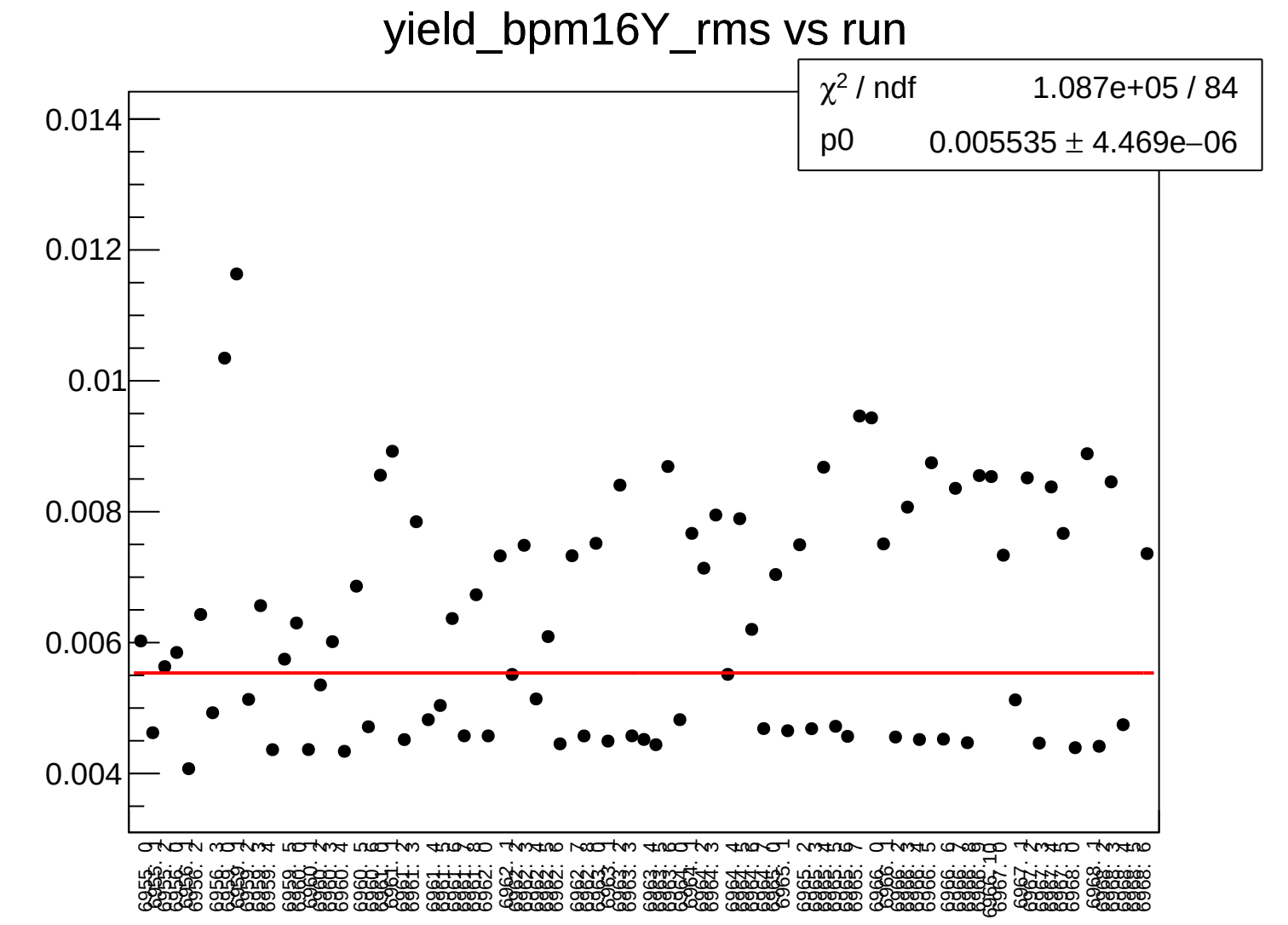

yield_bpm12Y_rms vs run
χ² / ndf 6.032e+04 / 84
p0 0.01061 ± 8.431e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

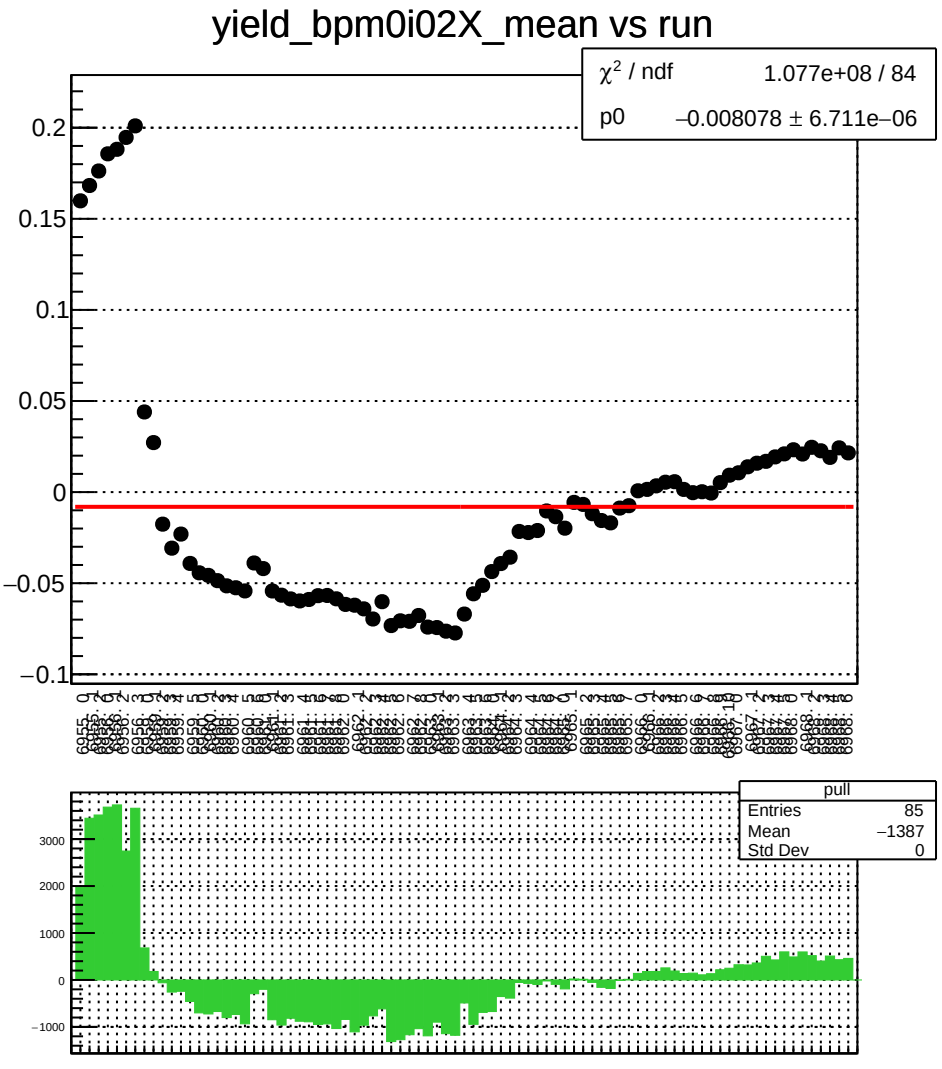

yield_bpm16X_mean vs run
χ² / ndf 5.487e+04 / 84
p0 0.0195 ± 1.217e−05
pull
Entries 85
Mean 103.3
Std Dev 0
pull1D
Entries 85
Mean −1.26
Std Dev 4.359

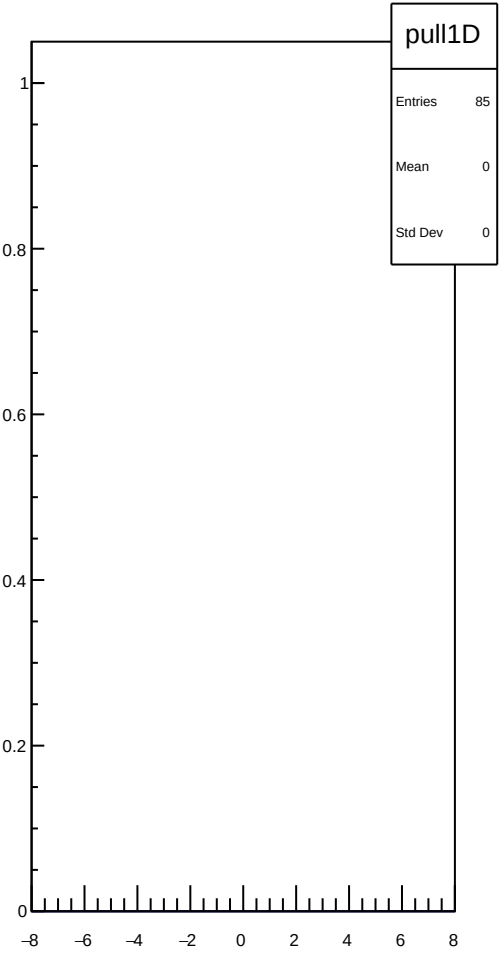

yield_bpm16X_rms vs run
χ² / ndf 2.725e+05 / 84
p0 0.01007 ± 8.604e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

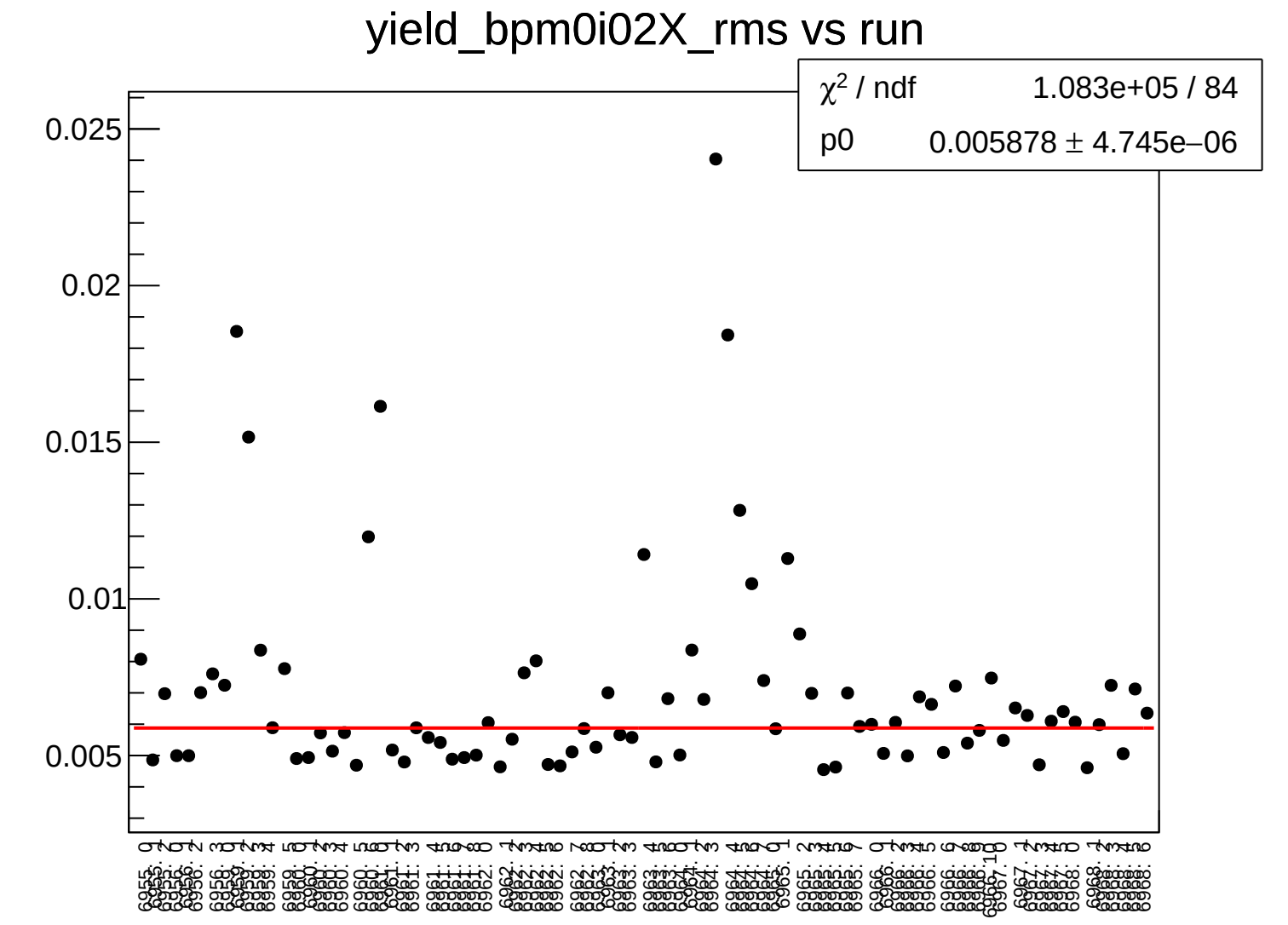

yield_bpm16Y_mean vs run
χ² / ndf 7.318e+04 / 84
p0 −0.284 ± 6.321e−06
−0.278
−0.28
−0.282
−0.284
−0.286
−0.288
−0.29
−0.292
−0.294
pull
Entries 85
Mean 109.3
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

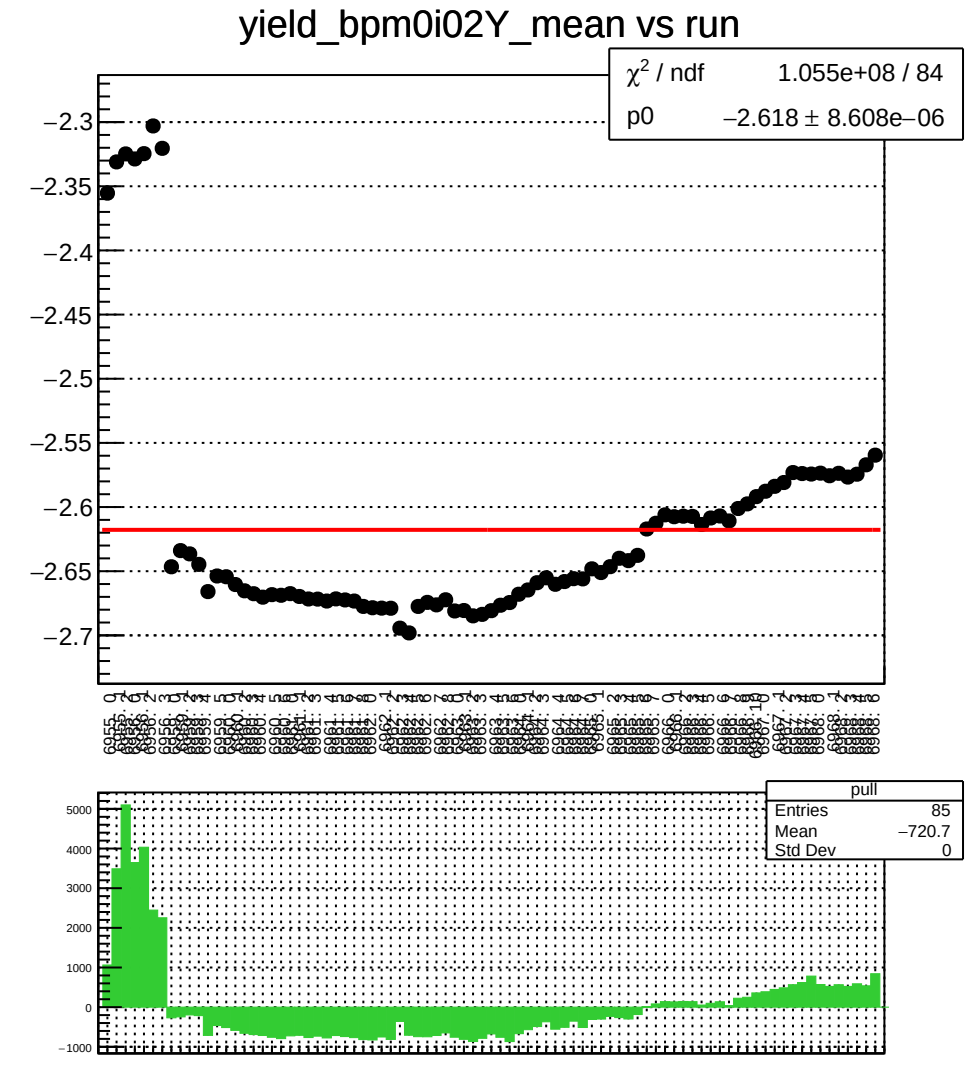

pull1D
Entries 85
Mean −0.6412
Std Dev 4.604
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

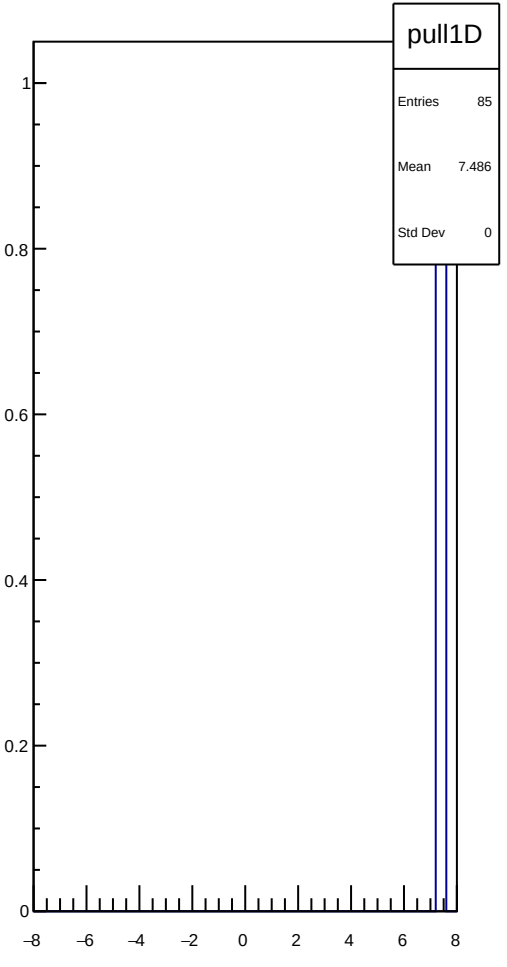

yield_bpm16Y_rms vs run
χ² / ndf 1.087e+05 / 84
p0 0.005535 ± 4.469e−06
0.014
0.012
0.01
0.008
0.006
0.004

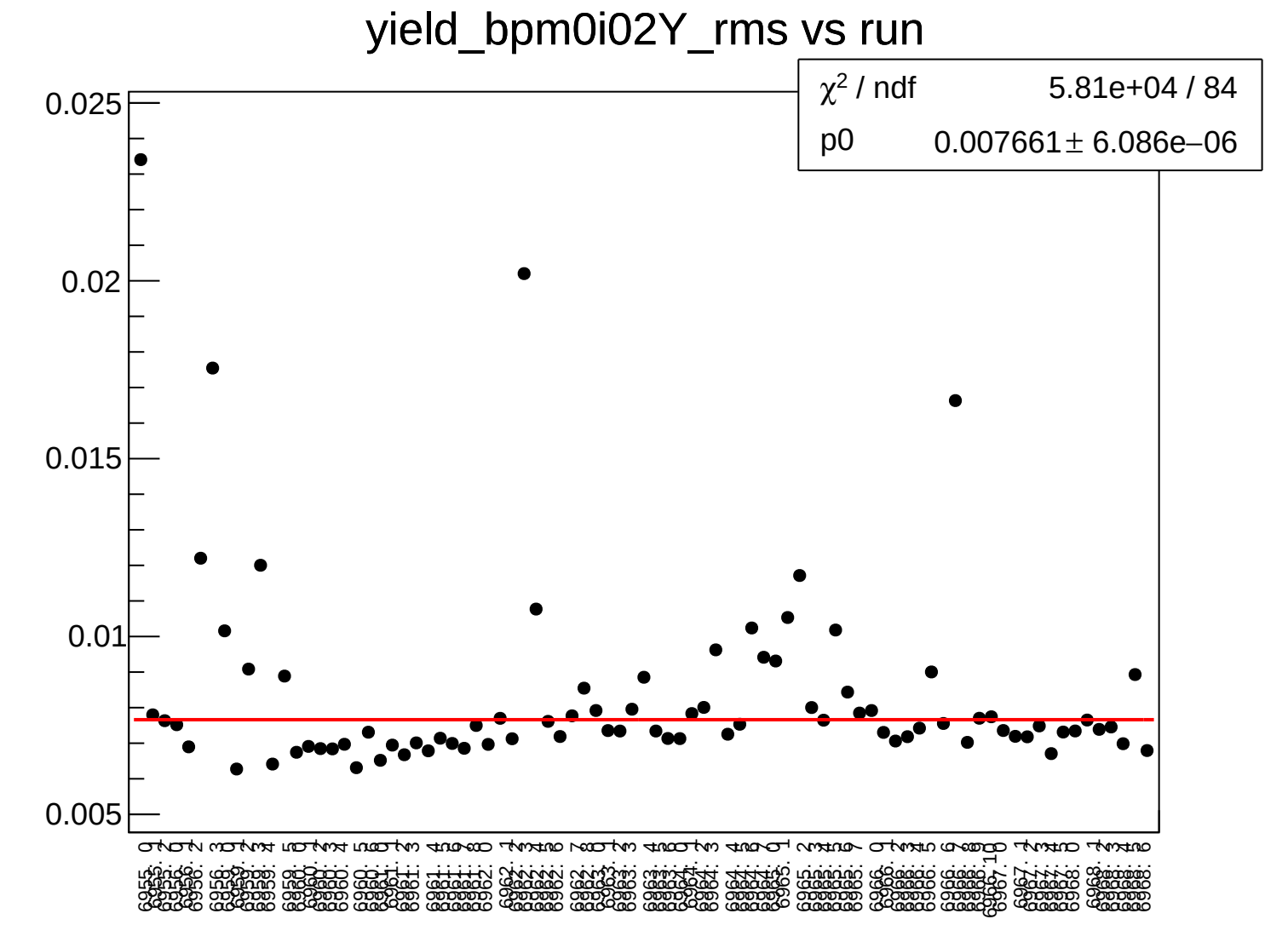

yield_bpm0i02X_mean vs run
χ² / ndf 1.077e+08 / 84
p0 −0.008078 ± 6.711e−06
pull
Entries 85
Mean −1387
Std Dev 0

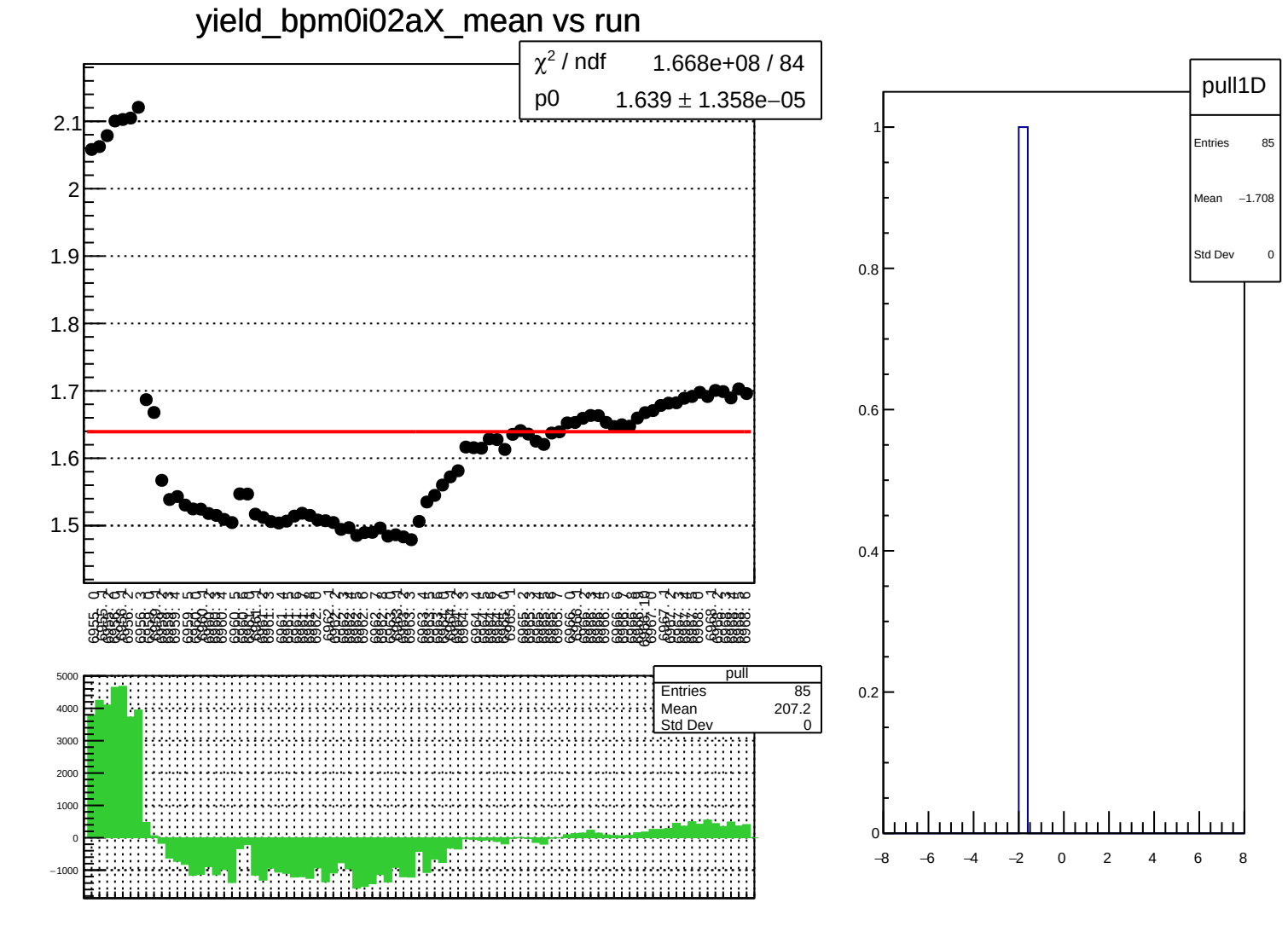

pull1D
Entries 85
Mean 0
Std Dev 0

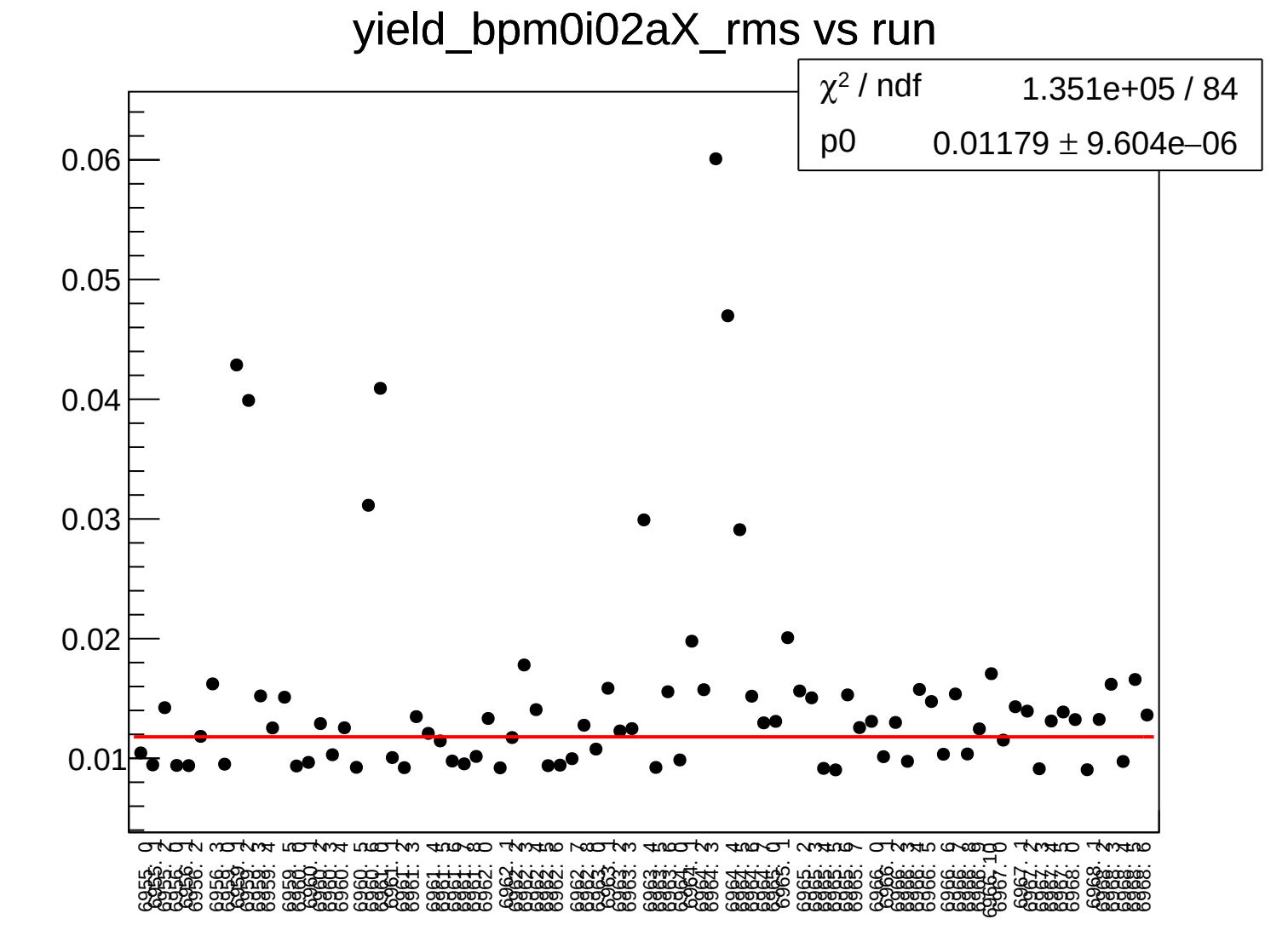

yield_bpm0i02X_rms vs run
χ² / ndf 1.083e+05 / 84
p0 0.005878 ± 4.745e−06
0.025
0.02
0.015
0.01
0.005

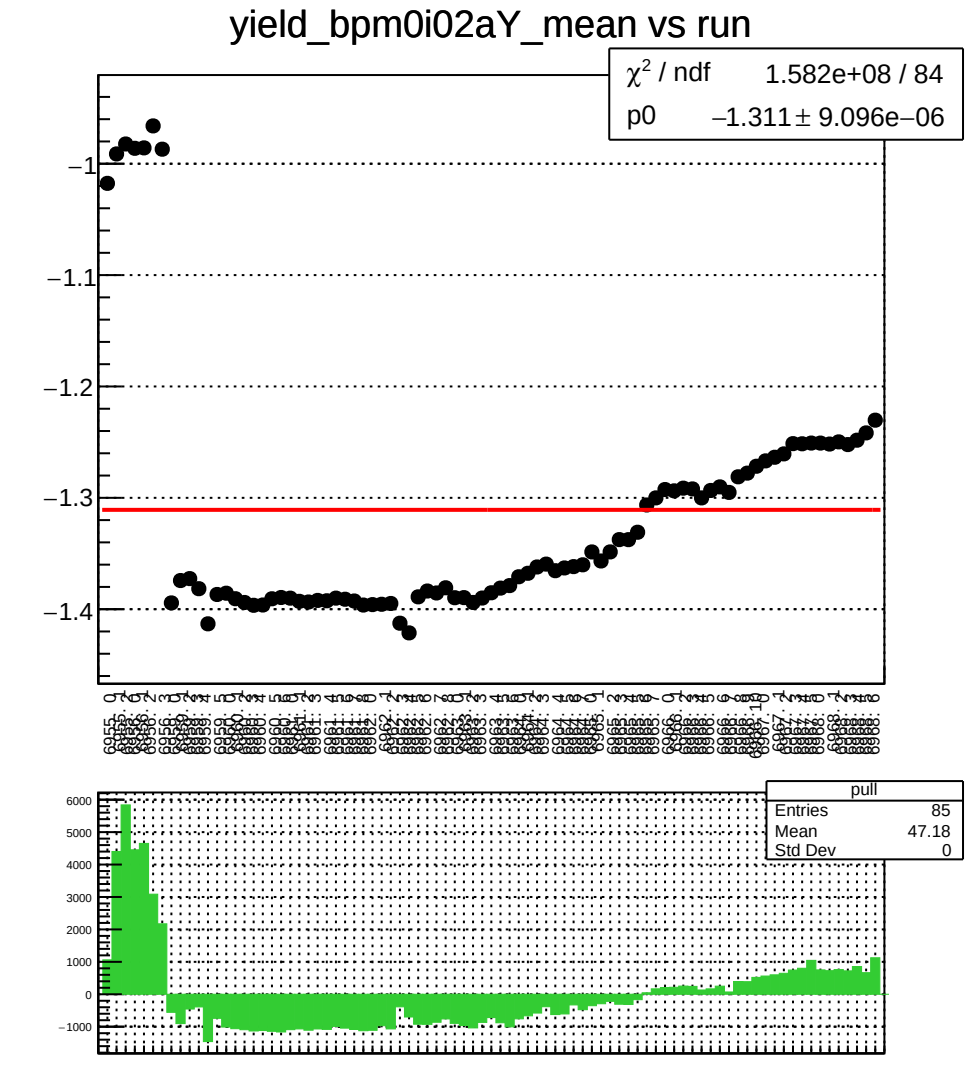

yield_bpm0i02Y_mean vs run
χ² / ndf 1.055e+08 / 84
p0 −2.618 ± 8.608e−06
pull
Entries 85
Mean −720.7
Std Dev 0

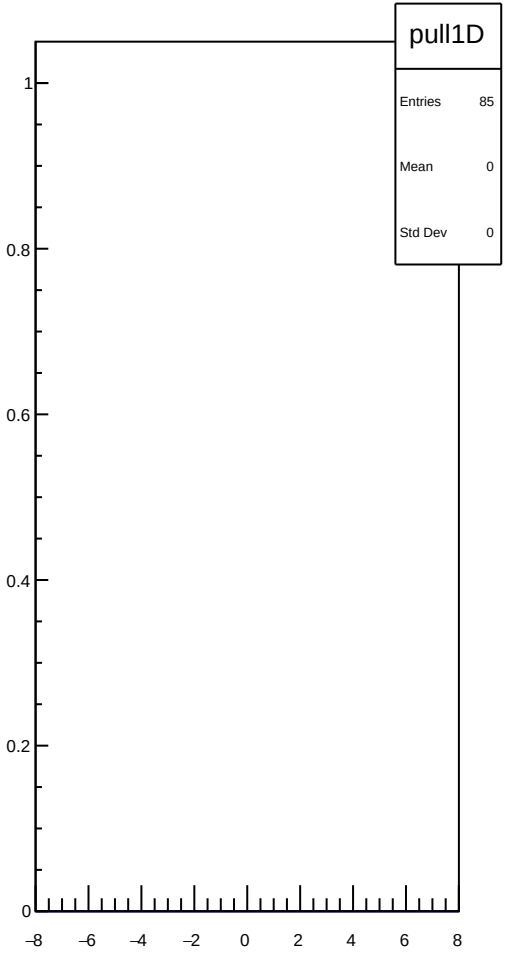

pull1D
Entries 85
Mean 7.486
Std Dev 0

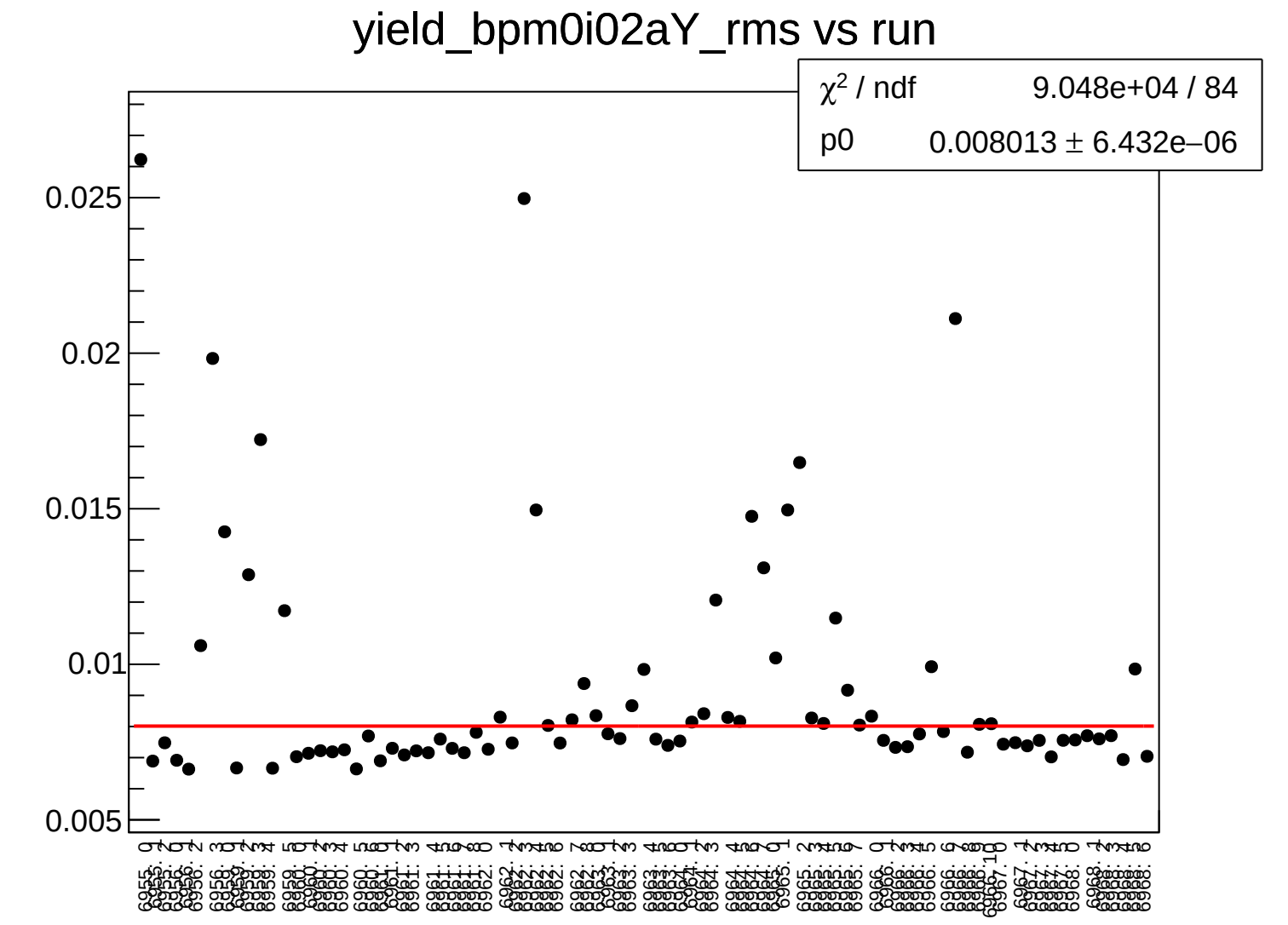

yield_bpm0i02Y_rms vs run
χ² / ndf 5.81e+04 / 84
p0 0.007661 ± 6.086e−06
0.025
0.02
0.015
0.01
0.005

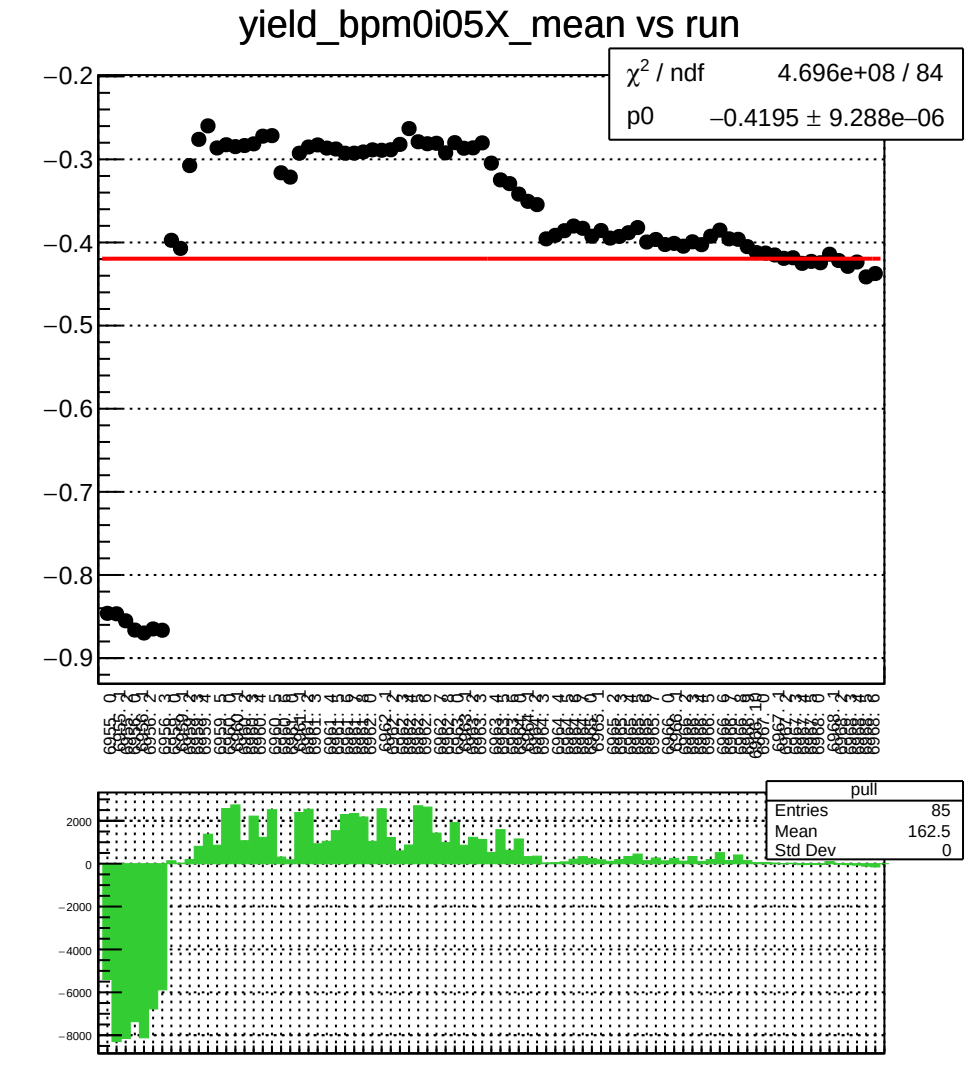

yield_bpm0i02aX_mean vs run
χ² / ndf 1.668e+08 / 84
p0 1.639 ± 1.358e−05
2.1
2
1.9
1.8
1.7
1.6
1.5
pull
Entries 85
Mean 207.2
Std Dev 0
5000
4000
3000
2000
1000
0
−1000
pull1D
Entries 85
Mean −1.708
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

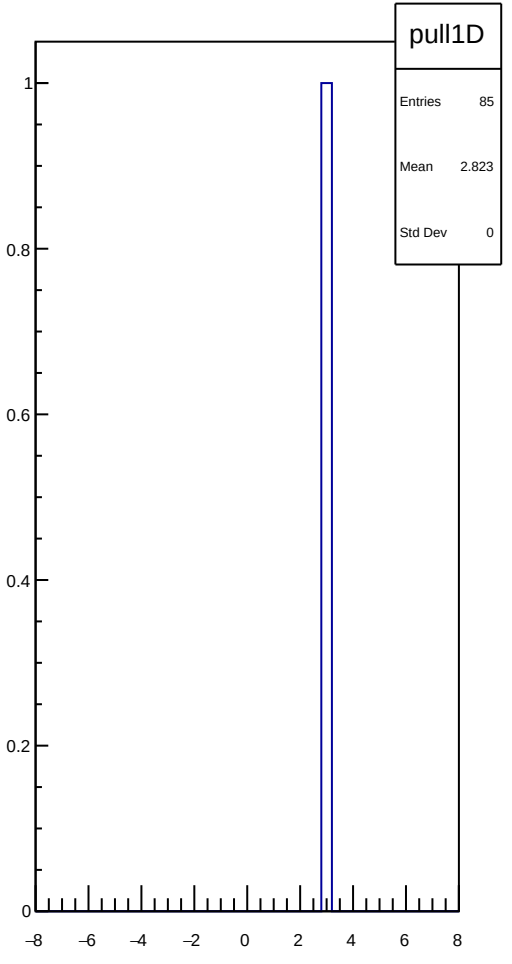

yield_bpm0i02aX_rms vs run
χ² / ndf 1.351e+05 / 84
p0 0.01179 ± 9.604e–06
0.06
0.05
0.04
0.03
0.02
0.01

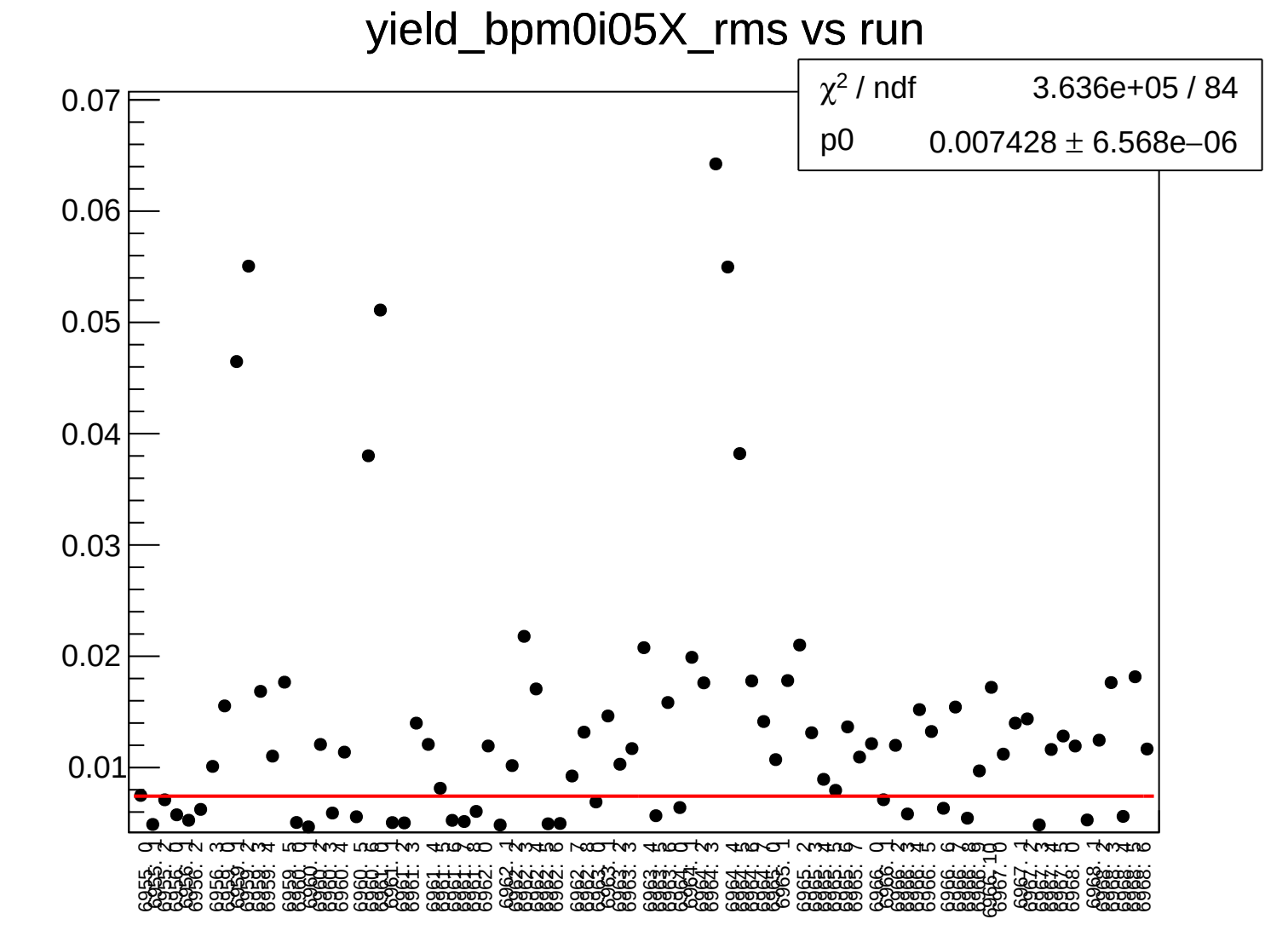

yield_bpm0i02aY_mean vs run
χ² / ndf 1.582e+08 / 84
p0 −1.311 ± 9.096e−06
−1
−1.1
−1.2
−1.3
−1.4
pull
Entries 85
Mean 47.18
Std Dev 0
6000
5000
4000
3000
2000
1000
0
−1000

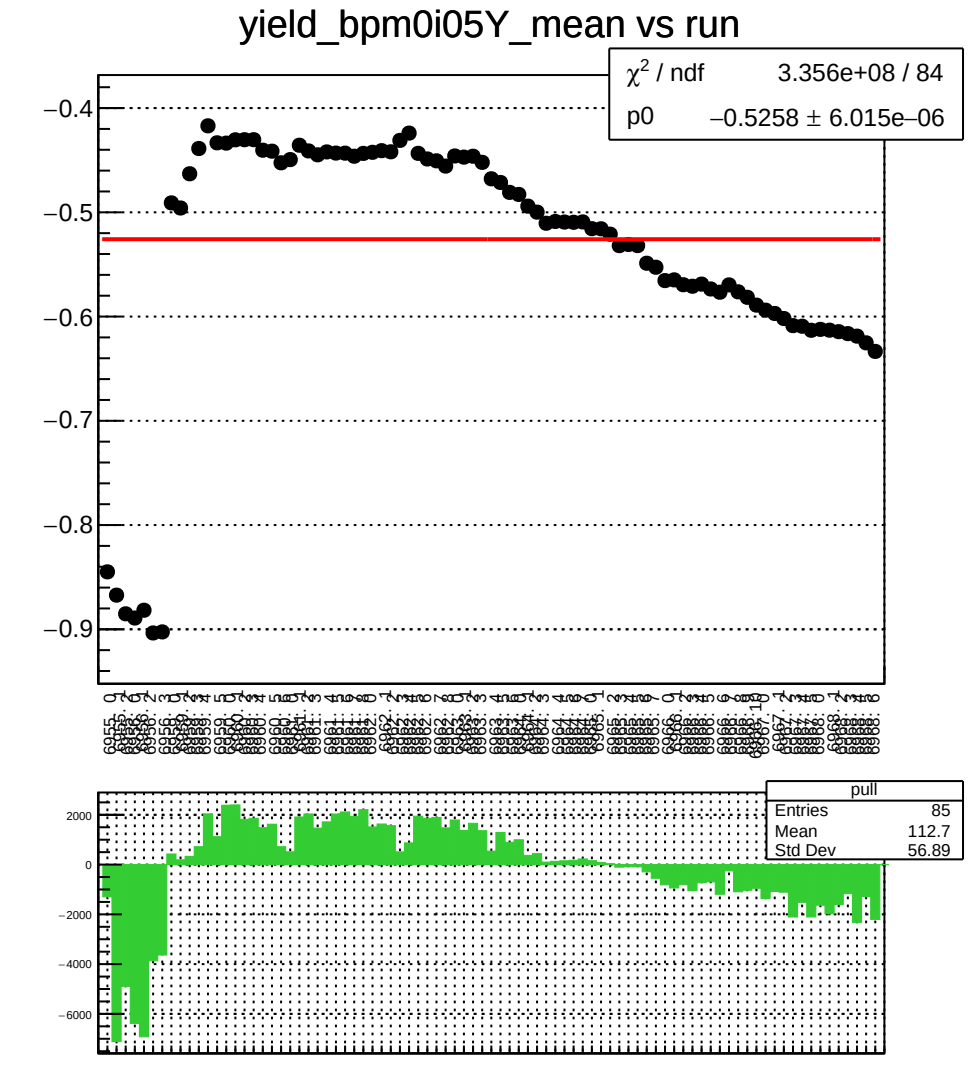

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

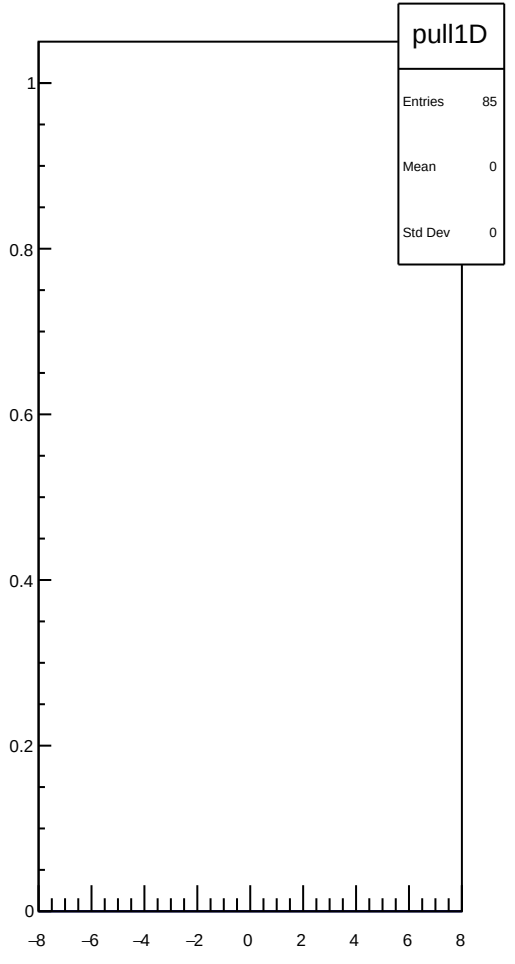

yield_bpm0i02aY_rms vs run
χ² / ndf 9.048e+04 / 84
p0 0.008013 ± 6.432e−06
0.025
0.02
0.015
0.01
0.005

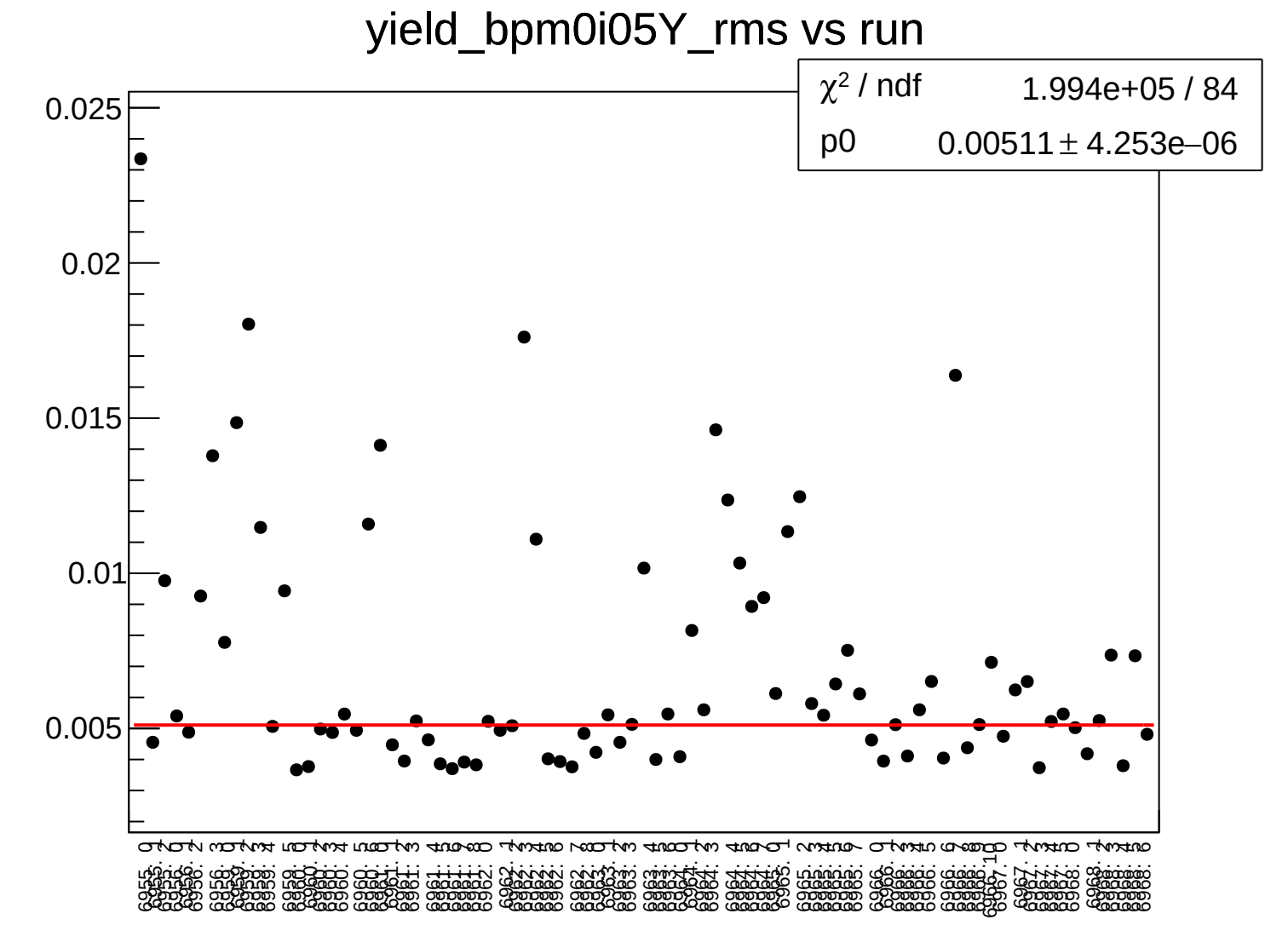

yield_bpm0i05X_mean vs run
χ² / ndf 4.696e+08 / 84
p0 −0.4195 ± 9.288e−06
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 85
Mean 162.5
Std Dev 0
2000
0
−2000
−4000
−6000
−8000

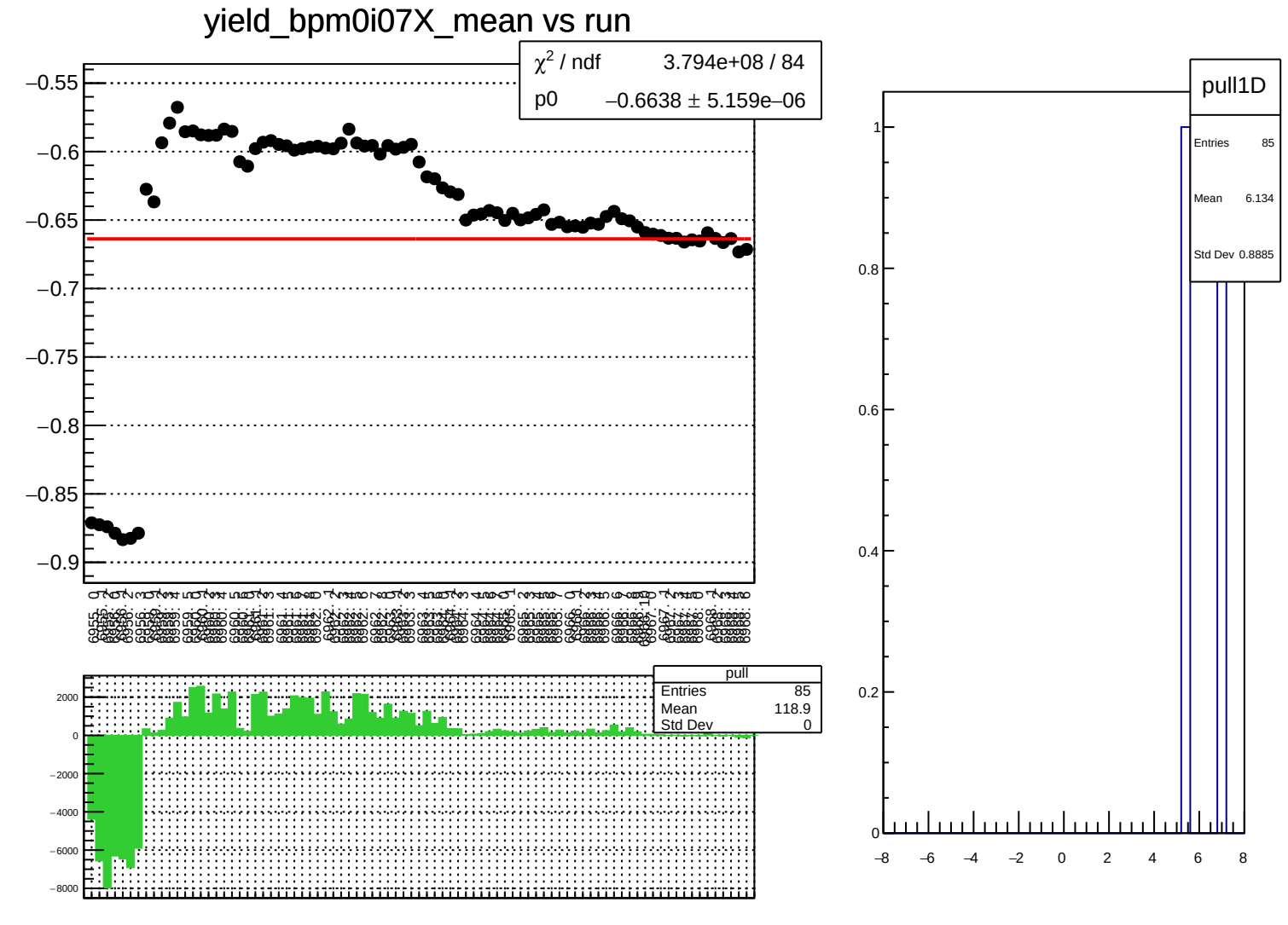

pull1D
Entries 85
Mean 2.823
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

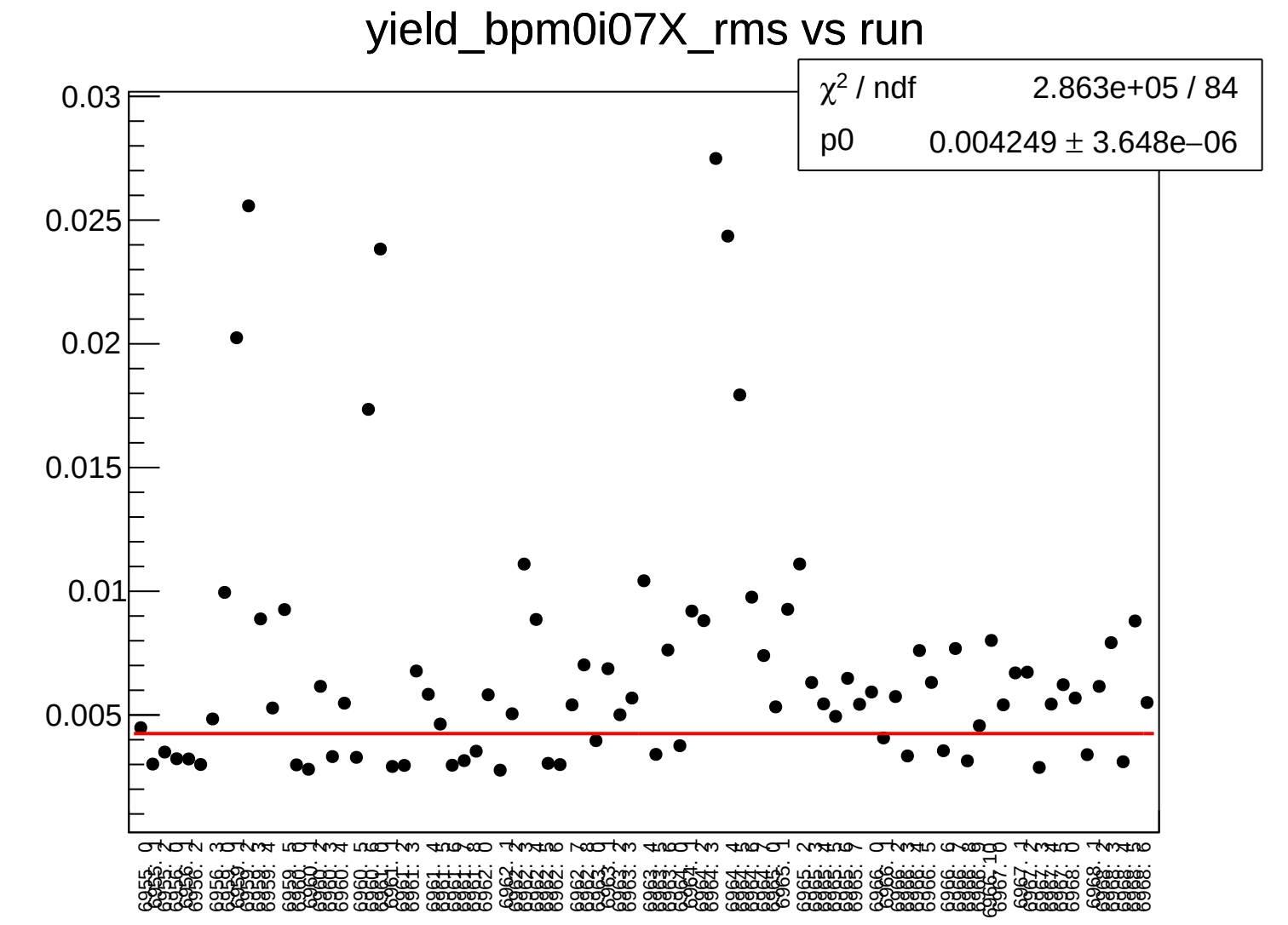

yield_bpm0i05X_rms vs run
χ² / ndf 3.636e+05 / 84
p0 0.007428 ± 6.568e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

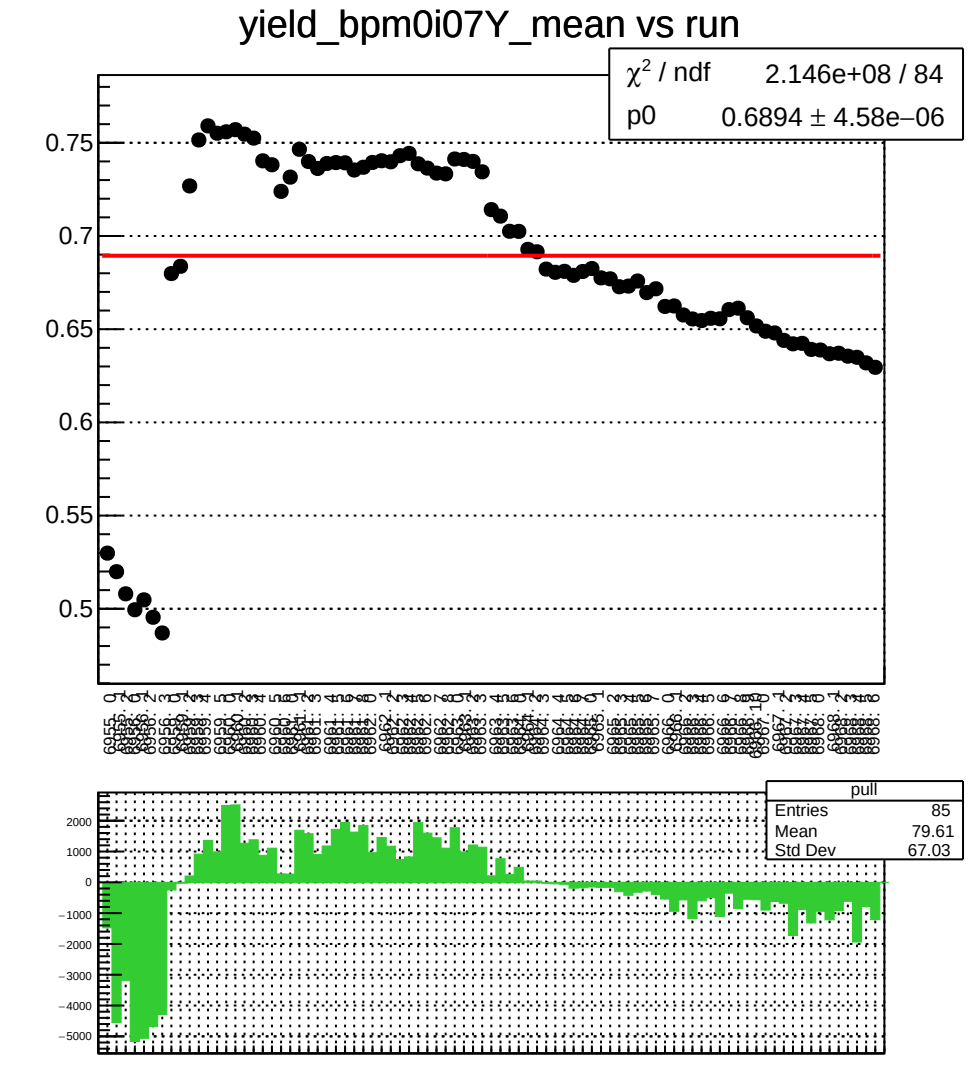

yield_bpm0i05Y_mean vs run
χ² / ndf 3.356e+08 / 84
p0 −0.5258 ± 6.015e−06
pull
Entries 85
Mean 112.7
Std Dev 56.89

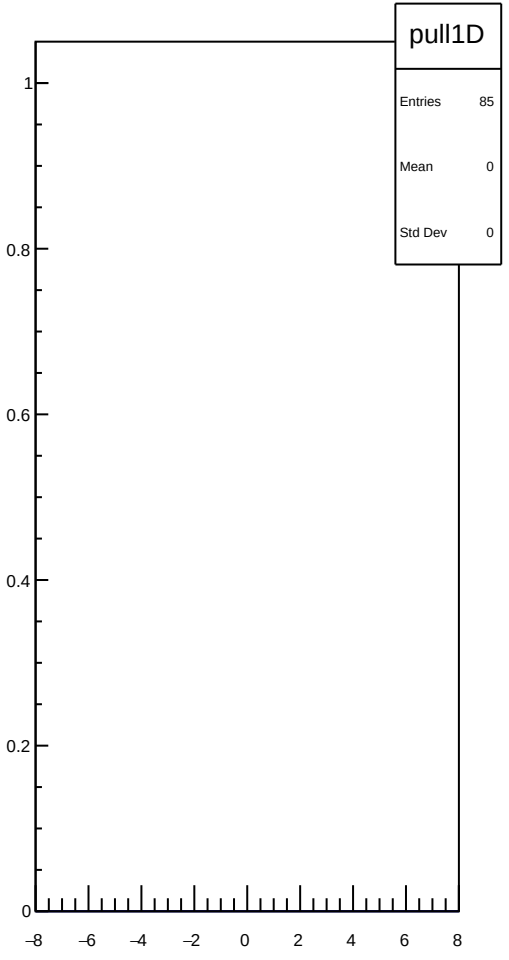

pull1D
Entries 85
Mean 0
Std Dev 0

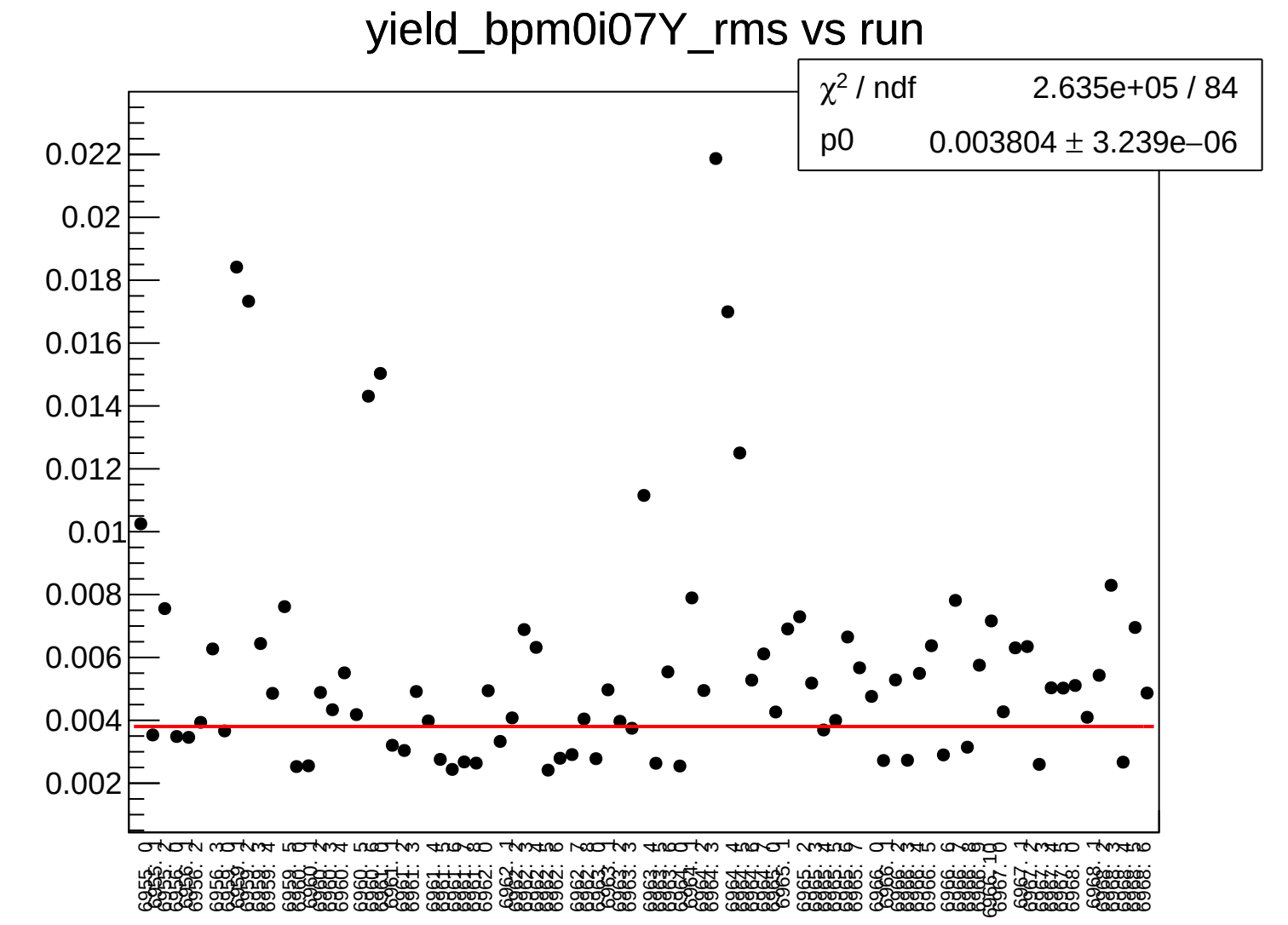

yield_bpm0i05Y_rms vs run
χ² / ndf 1.994e+05 / 84
p0 0.00511 ± 4.253e–06
0.025
0.02
0.015
0.01
0.005

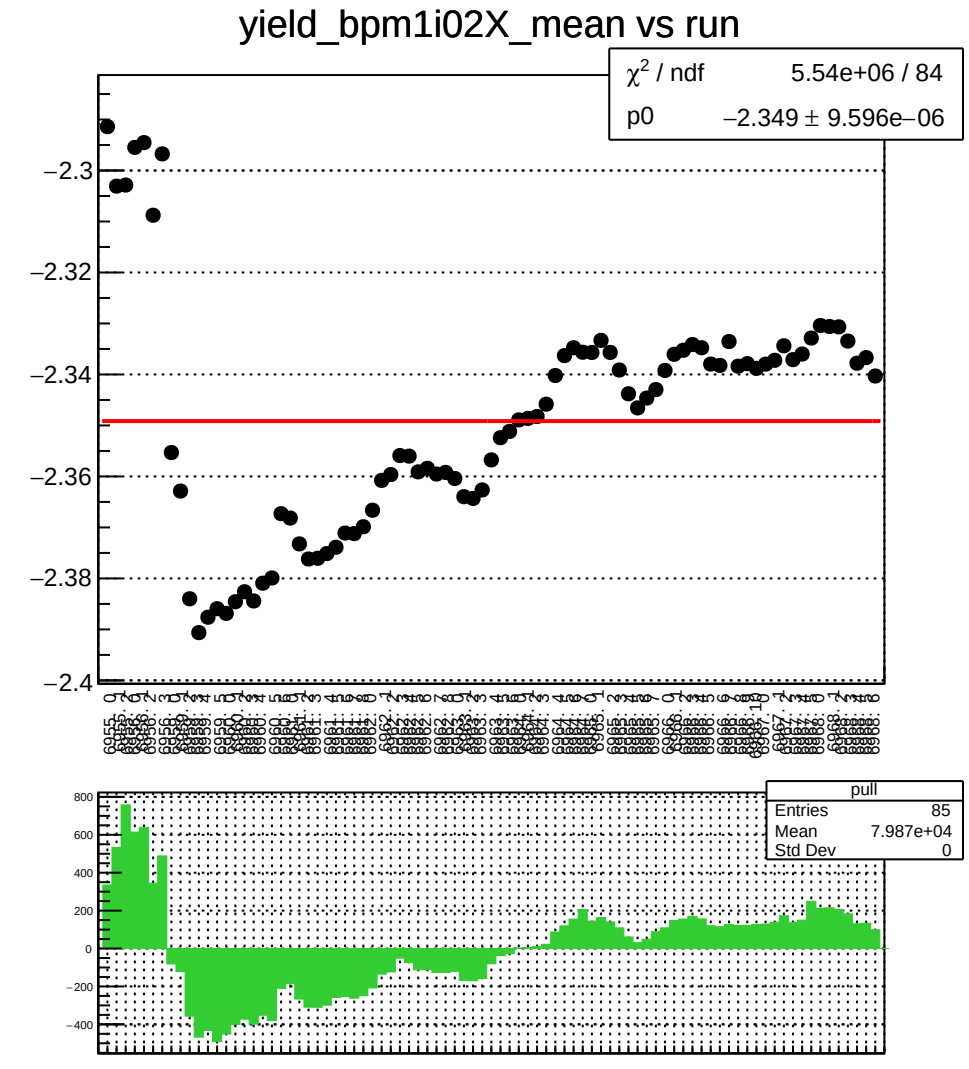

yield_bpm0i07X_mean vs run
χ² / ndf 3.794e+08 / 84
p0 −0.6638 ± 5.159e−06
−0.55
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 85
Mean 118.9
Std Dev 0
2000
0
−2000
−4000
−6000
−8000
pull1D
Entries 85
Mean 6.134
Std Dev 0.8885
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

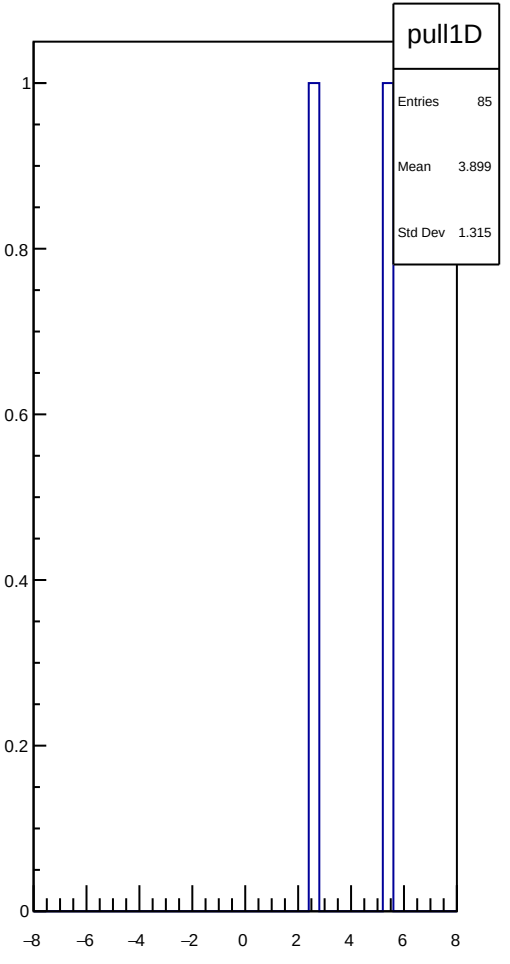

yield_bpm0i07X_rms vs run
χ² / ndf 2.863e+05 / 84
p0 0.004249 ± 3.648e−06
0.03
0.025
0.02
0.015
0.01
0.005

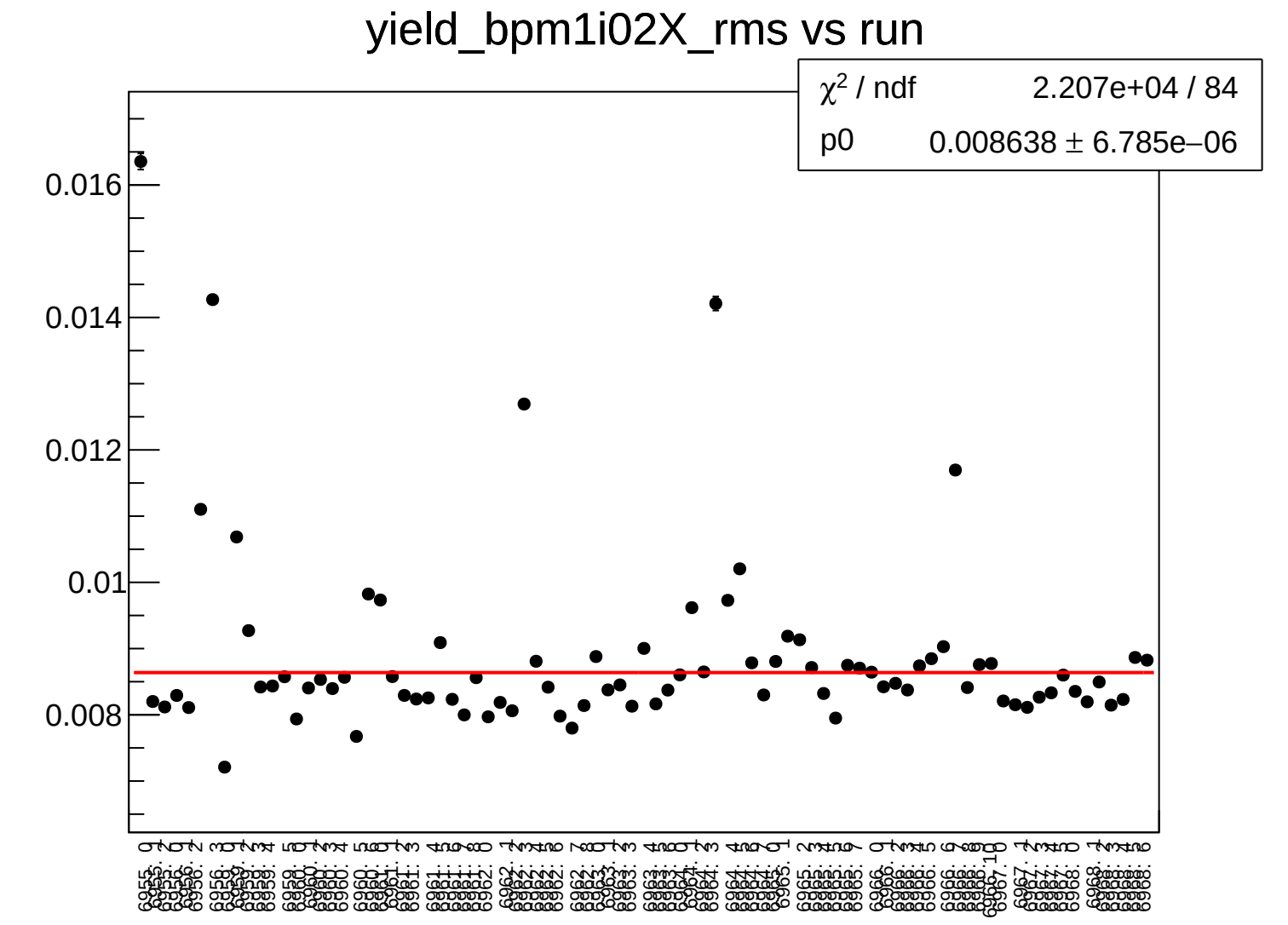

yield_bpm0i07Y_mean vs run
χ² / ndf 2.146e+08 / 84
p0 0.6894 ± 4.58e−06
0.75
0.7
0.65
0.6
0.55
0.5
pull
Entries 85
Mean 79.61
Std Dev 67.03
2000
1000
0
−1000
−2000
−3000
−4000
−5000

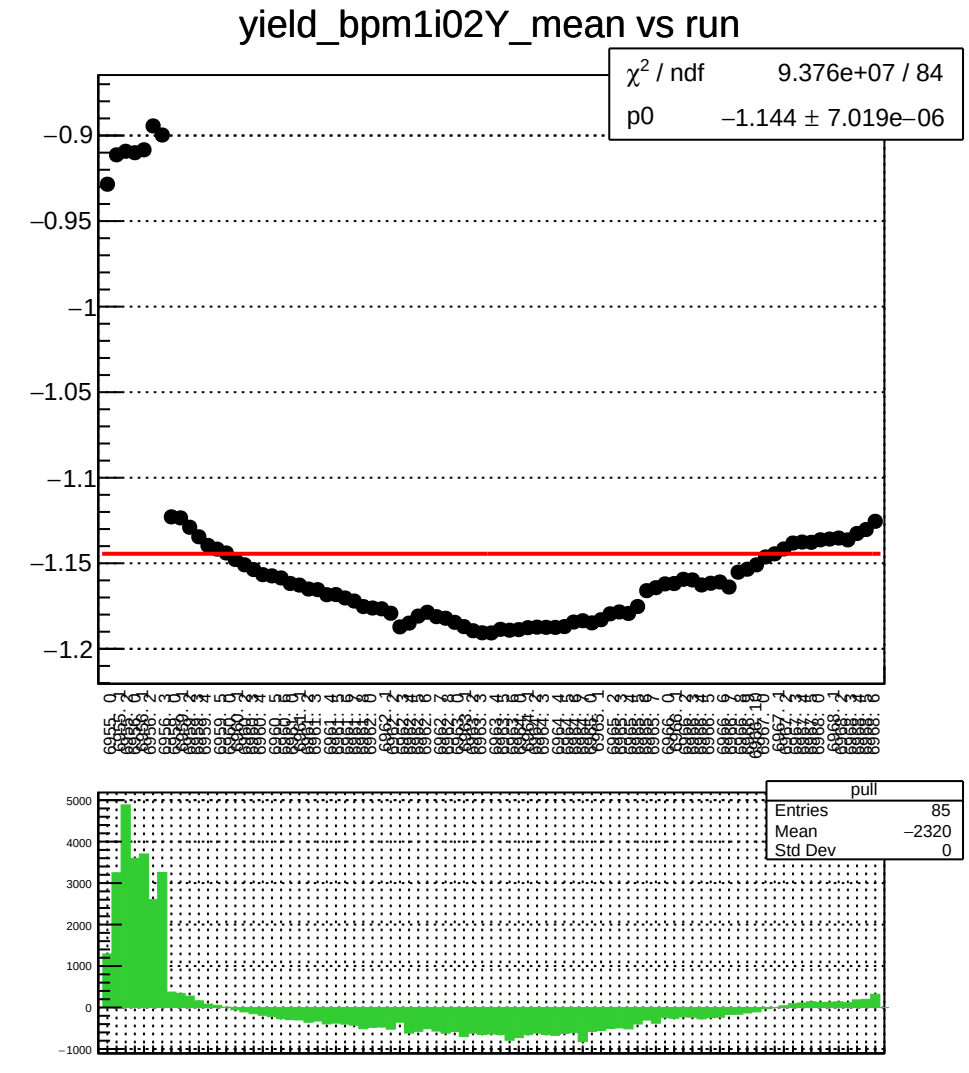

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

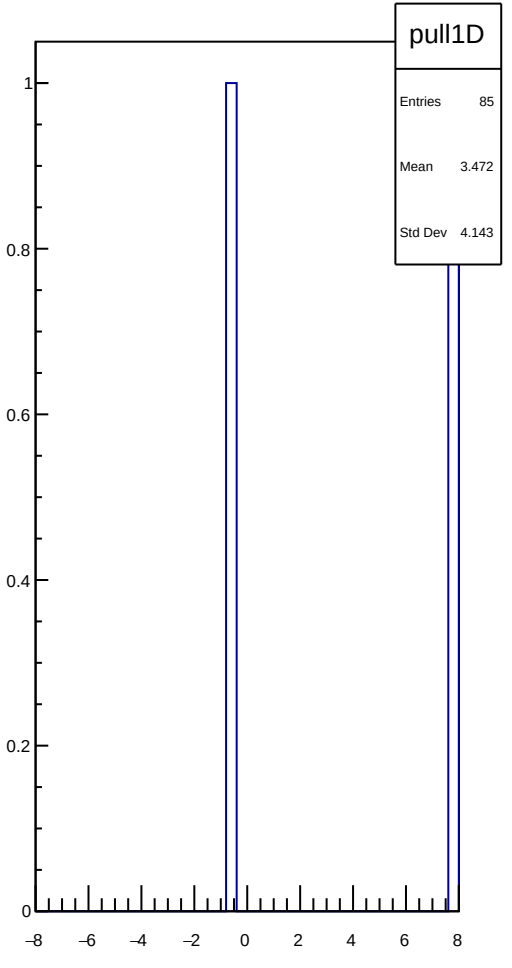

yield_bpm0i07Y_rms vs run
$\chi^2$ / ndf 2.635e+05 / 84
p0 0.003804 ± 3.239e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

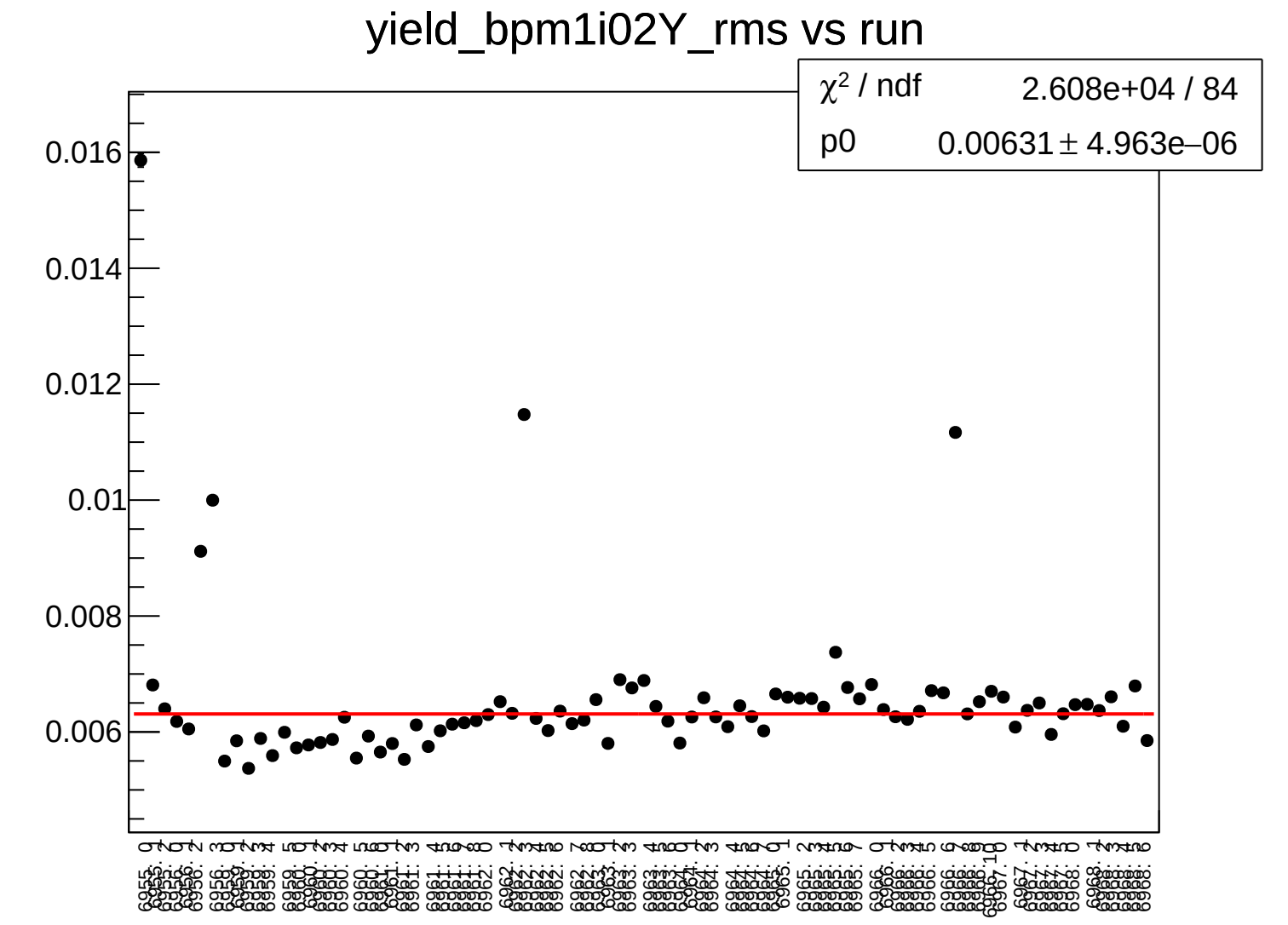

yield_bpm1i02X_mean vs run
χ² / ndf 5.54e+06 / 84
p0 −2.349 ± 9.596e−06
−2.3
−2.32
−2.34
−2.36
−2.38
−2.4
pull
Entries 85
Mean 7.987e+04
Std Dev 0
800
600
400
200
0
−200
−400

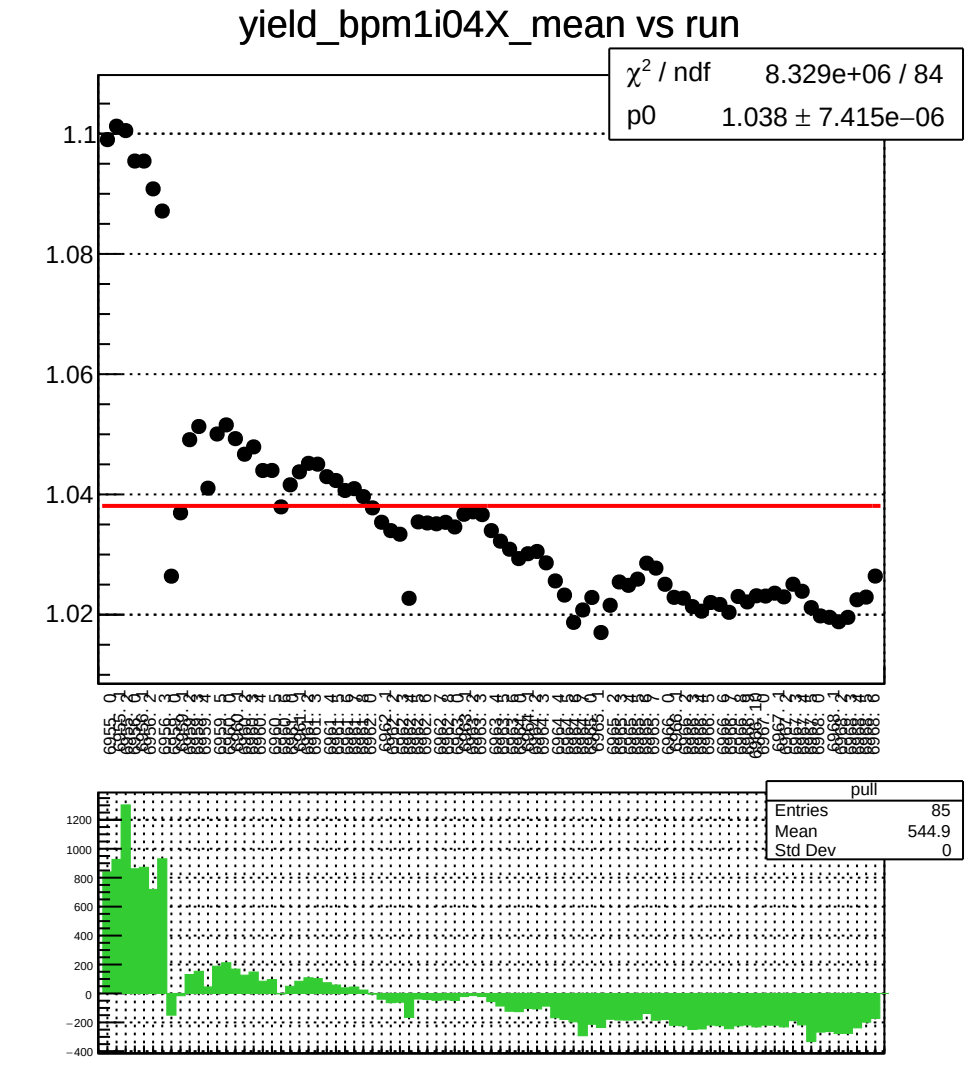

pull1D
Entries 85
Mean 3.899
Std Dev 1.315
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

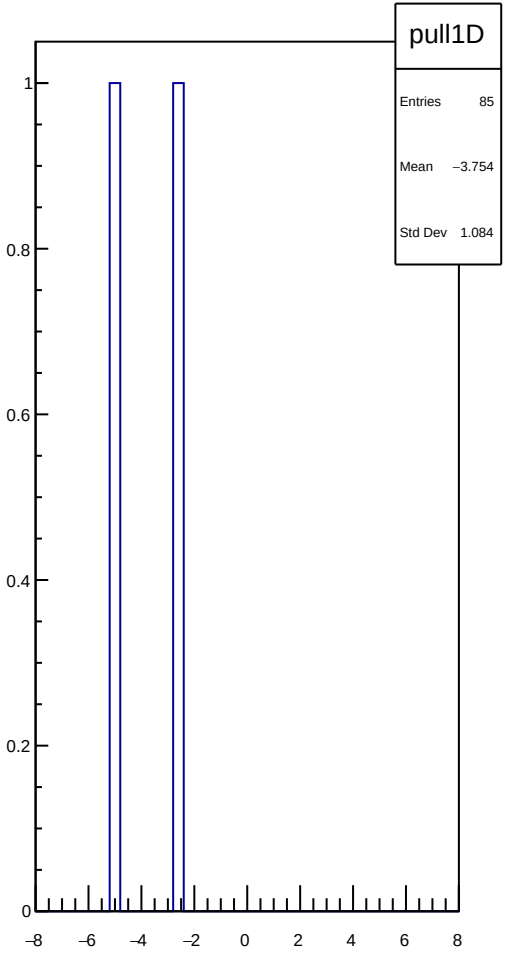

yield_bpm1i02X_rms vs run
χ² / ndf 2.207e+04 / 84
p0 0.008638 ± 6.785e−06
0.016
0.014
0.012
0.01
0.008

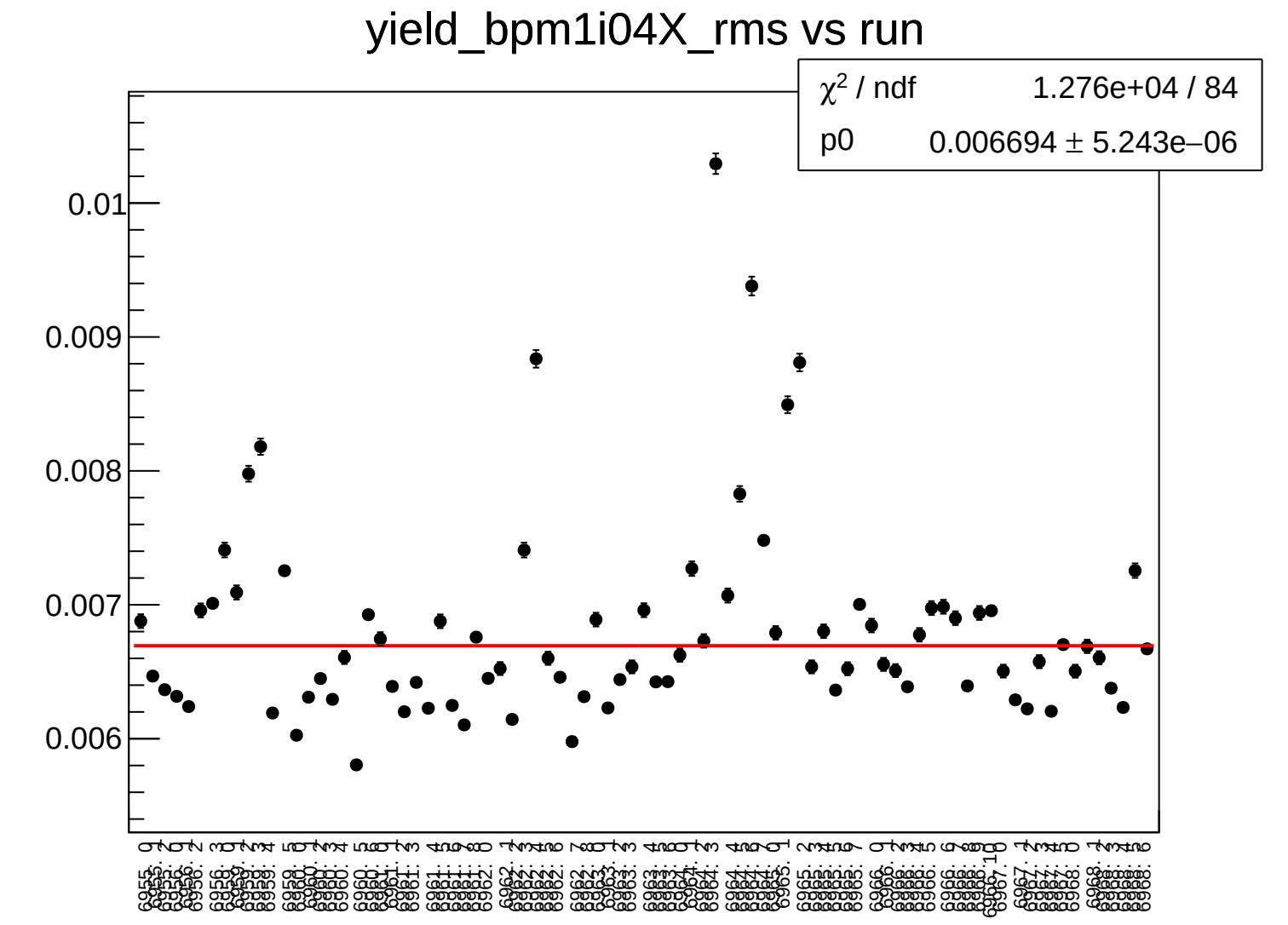

yield_bpm1i02Y_mean vs run
χ² / ndf 9.376e+07 / 84
p0 −1.144 ± 7.019e−06
−0.9
−0.95
−1
−1.05
−1.1
−1.15
−1.2
pull
Entries 85
Mean −2320
Std Dev 0
5000
4000
3000
2000
1000
0
−1000

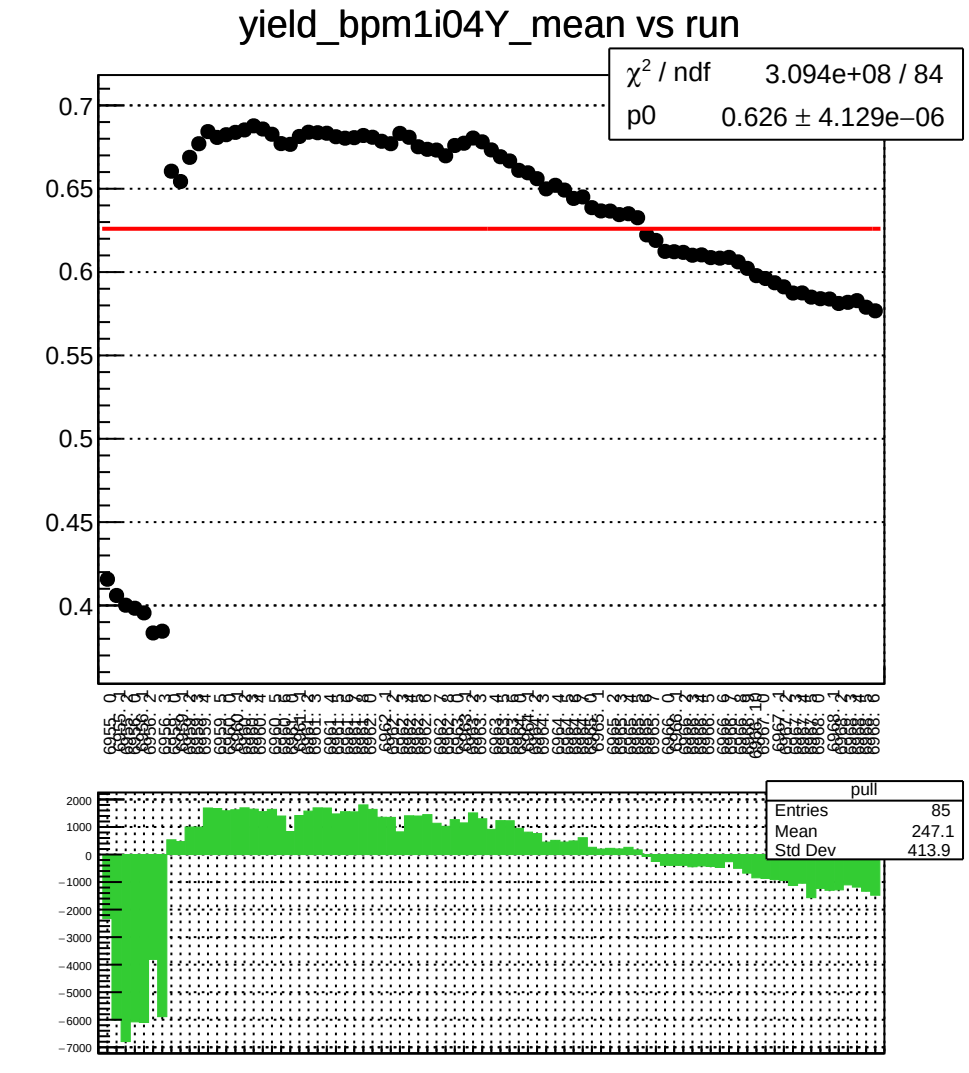

pull1D
Entries 85
Mean 3.472
Std Dev 4.143
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

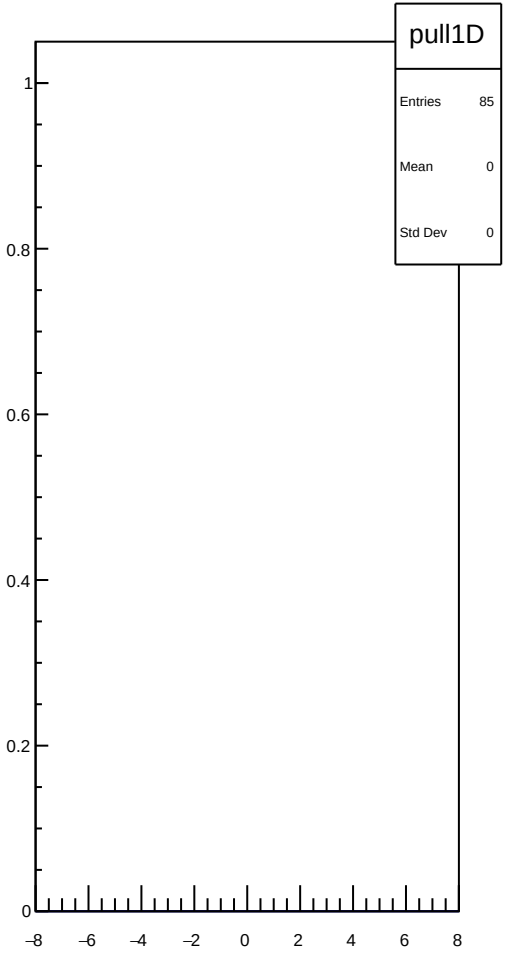

yield_bpm1i02Y_rms vs run
χ² / ndf 2.608e+04 / 84
p0 0.00631 ± 4.963e–06
0.016
0.014
0.012
0.01
0.008
0.006

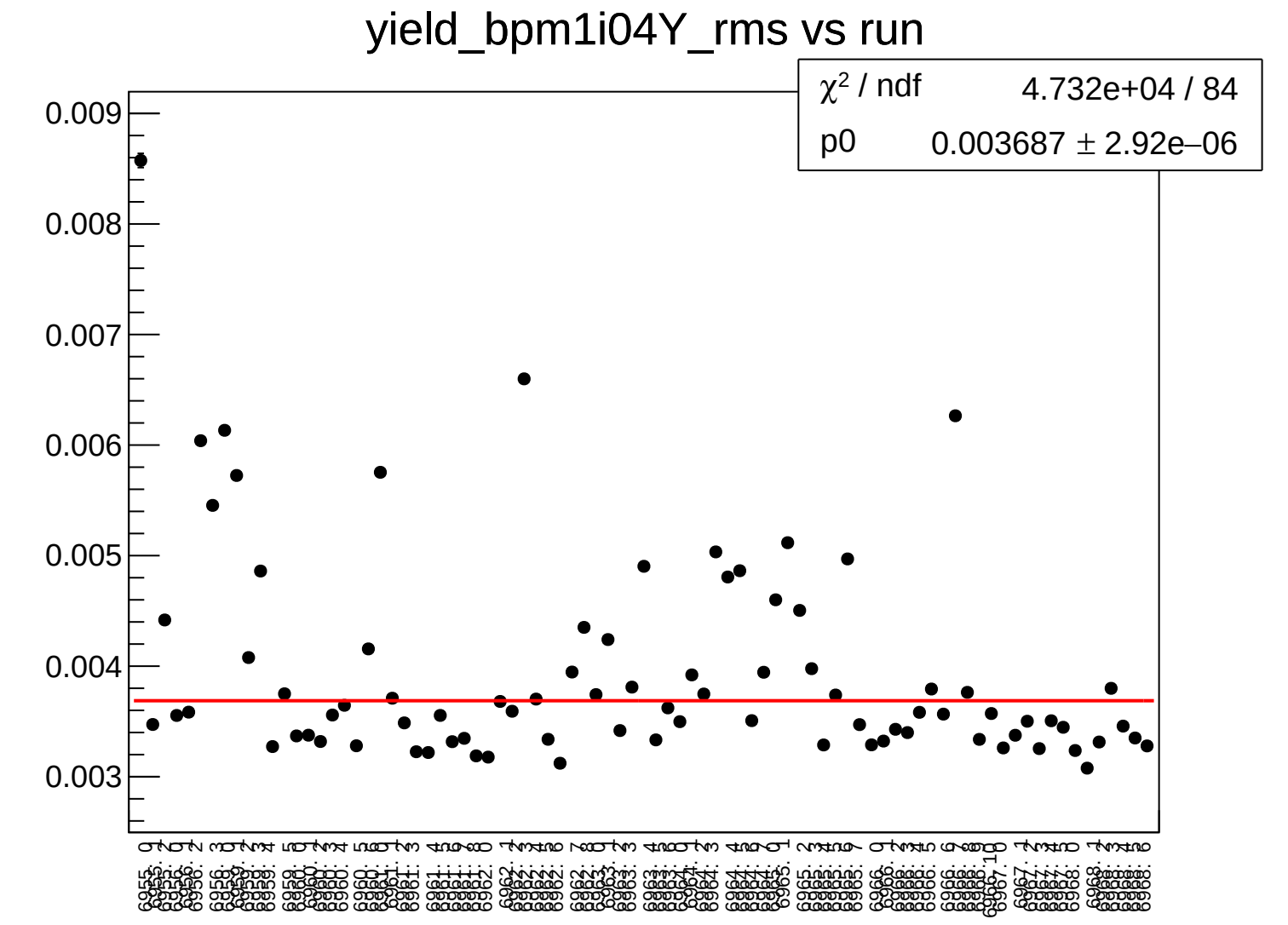

yield_bpm1i04X_mean vs run
χ² / ndf 8.329e+06 / 84
p0 1.038 ± 7.415e−06
1.1
1.08
1.06
1.04
1.02
pull
Entries 85
Mean 544.9
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

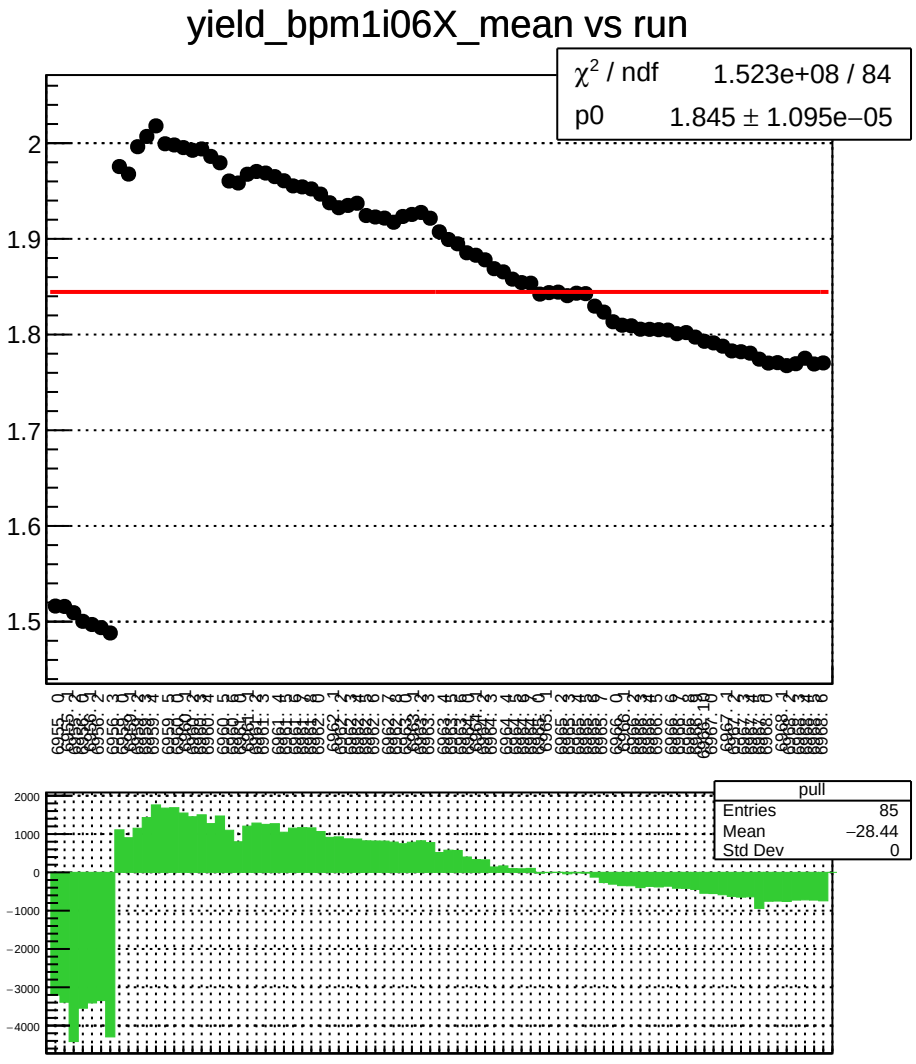

pull1D
Entries 85
Mean −3.754
Std Dev 1.084
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

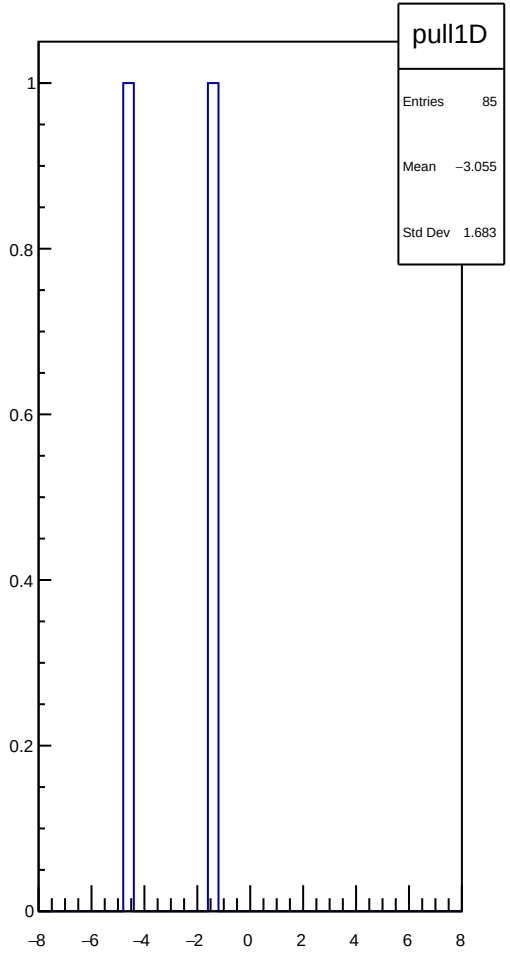

yield_bpm1i04X_rms vs run
χ² / ndf 1.276e+04 / 84
p0 0.006694 ± 5.243e−06
0.01
0.009
0.008
0.007
0.006

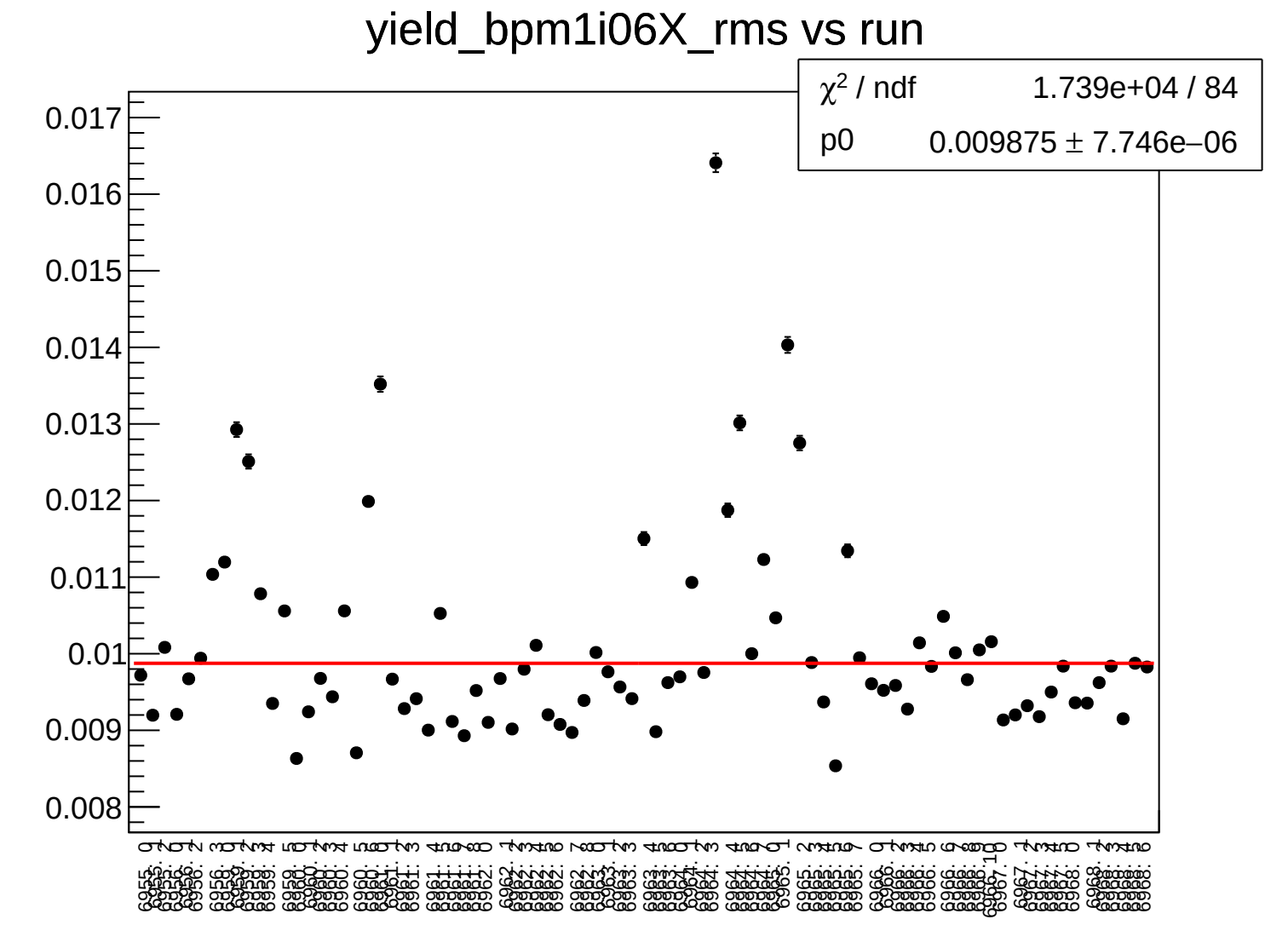

yield_bpm1i04Y_mean vs run
χ² / ndf 3.094e+08 / 84
p0 0.626 ± 4.129e−06
0.7
0.65
0.6
0.55
0.5
0.45
0.4
pull
Entries 85
Mean 247.1
Std Dev 413.9
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000

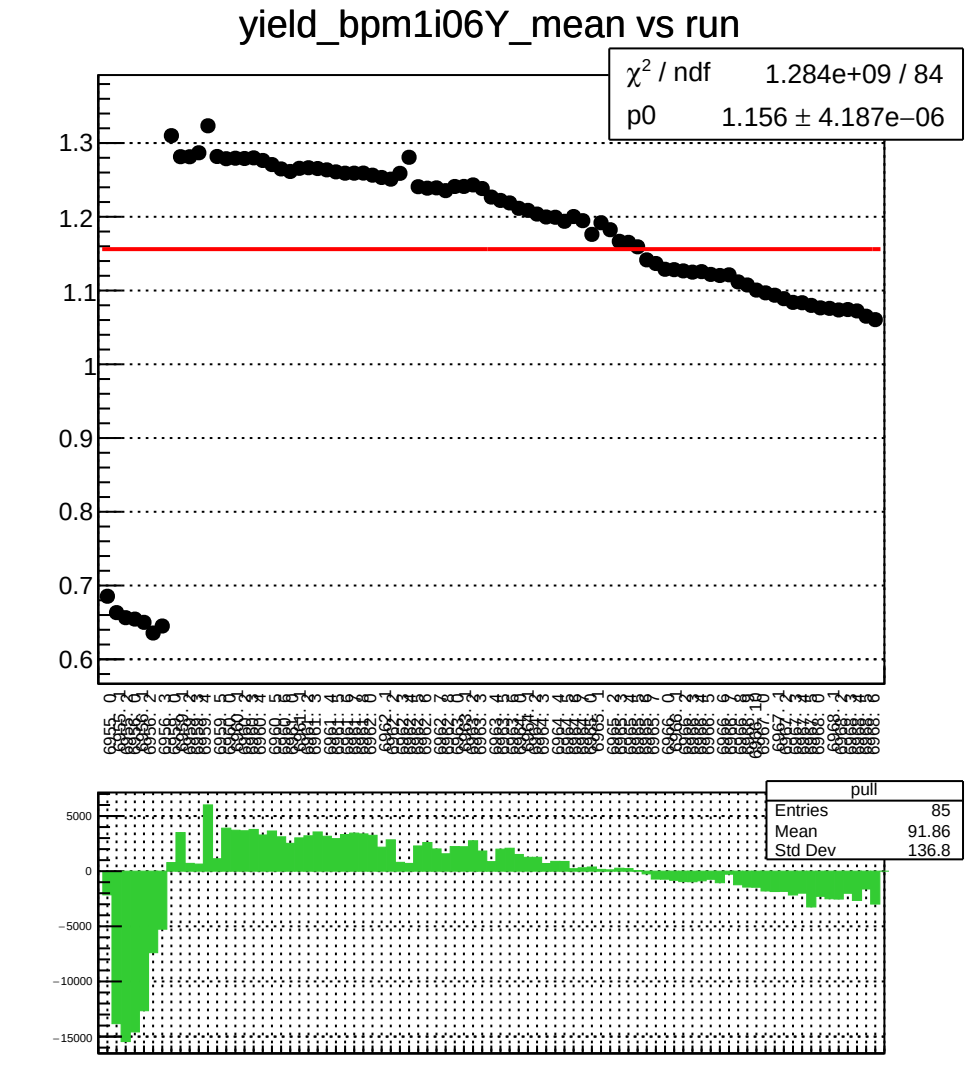

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

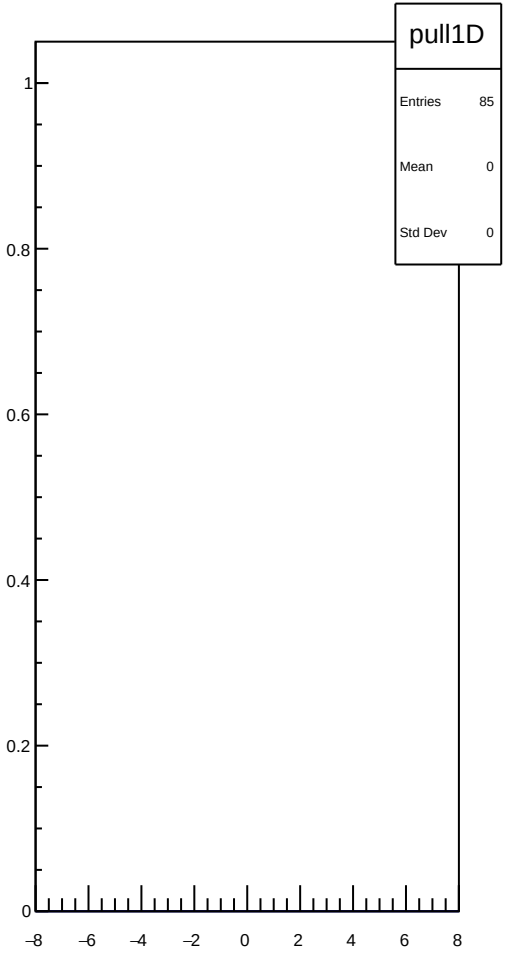

yield_bpm1i04Y_rms vs run
χ² / ndf 4.732e+04 / 84
p0 0.003687 ± 2.92e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

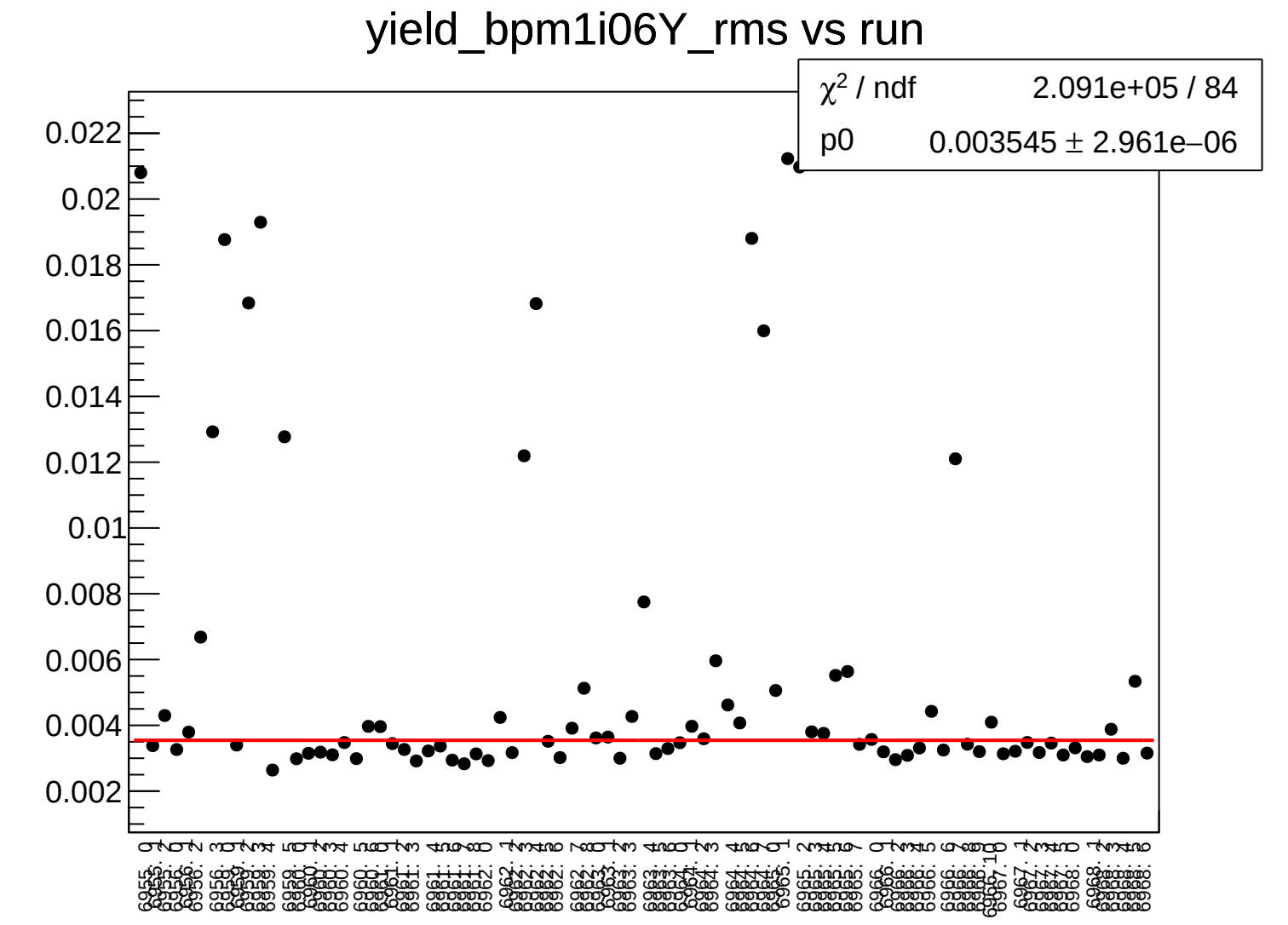

yield_bpm1i06X_mean vs run
χ² / ndf 1.523e+08 / 84
p0 1.845 ± 1.095e−05
pull
Entries 85
Mean −28.44
Std Dev 0

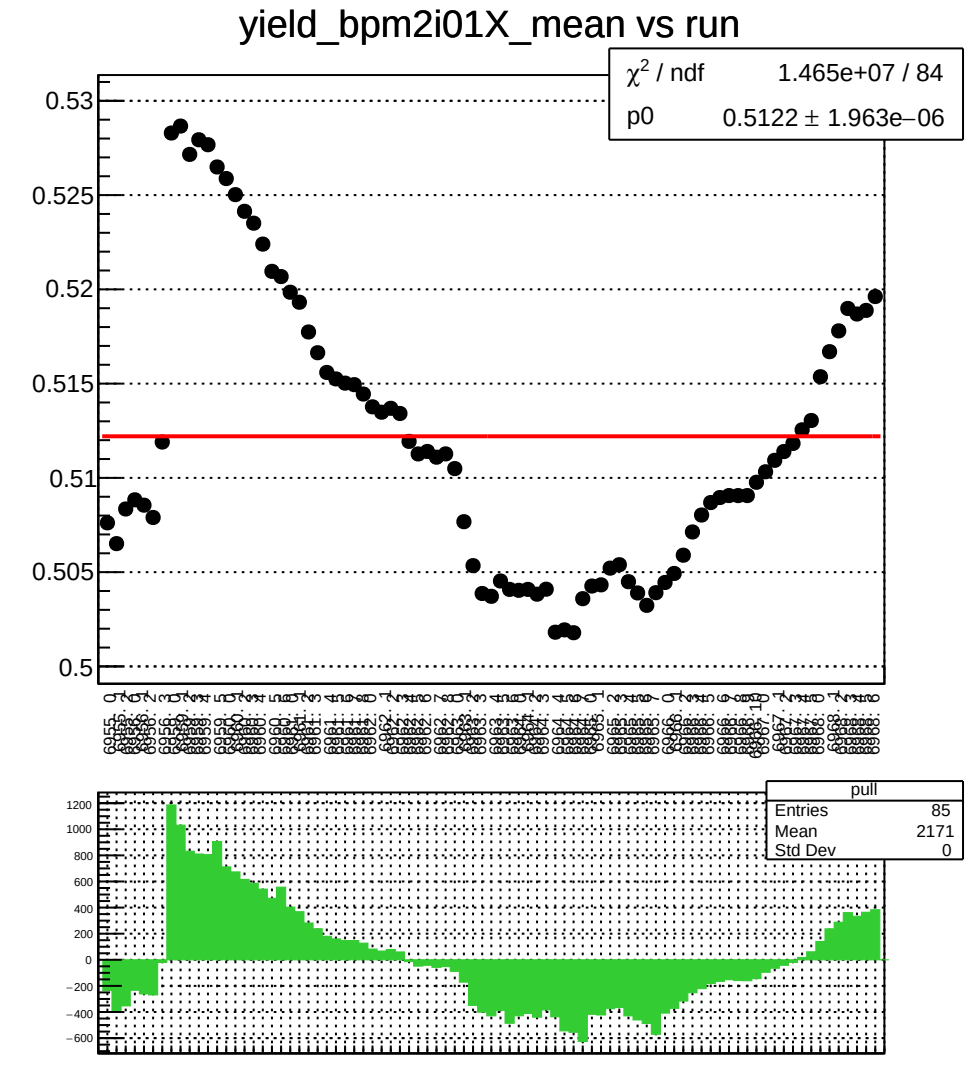

pull1D
Entries 85
Mean −3.055
Std Dev 1.683

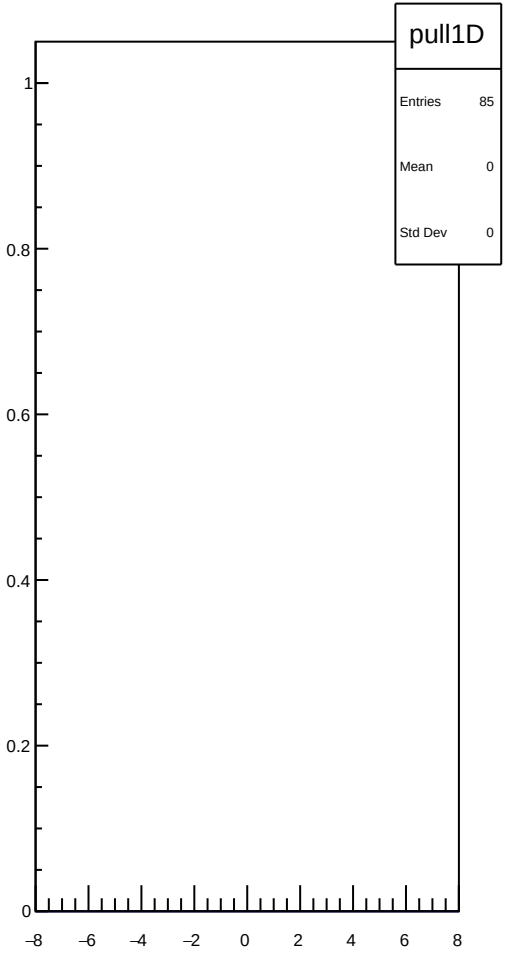

yield_bpm1i06X_rms vs run
χ² / ndf 1.739e+04 / 84
p0 0.009875 ± 7.746e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

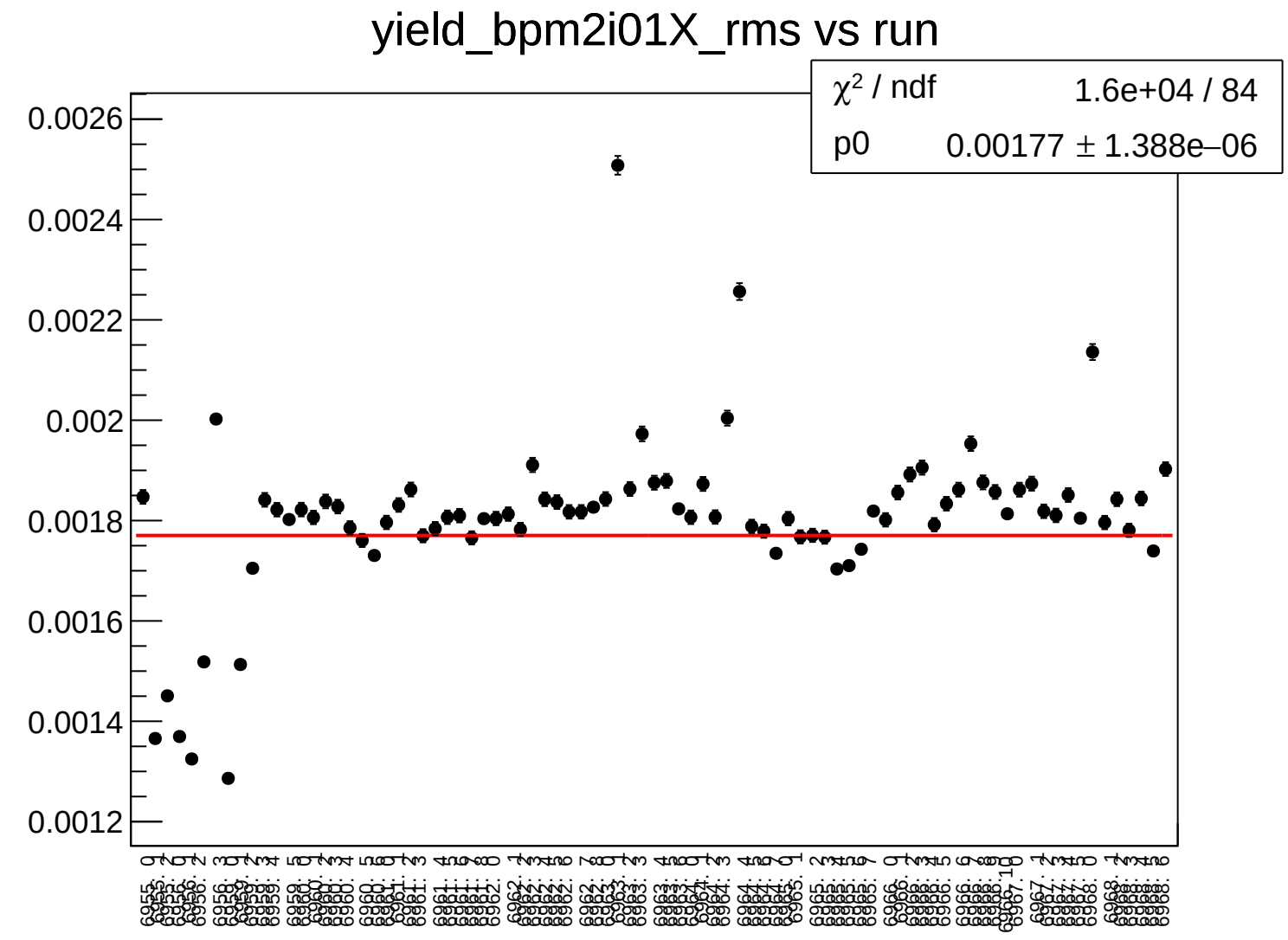

yield_bpm1i06Y_mean vs run
χ² / ndf 1.284e+09 / 84
p0 1.156 ± 4.187e−06
pull
Entries 85
Mean 91.86
Std Dev 136.8

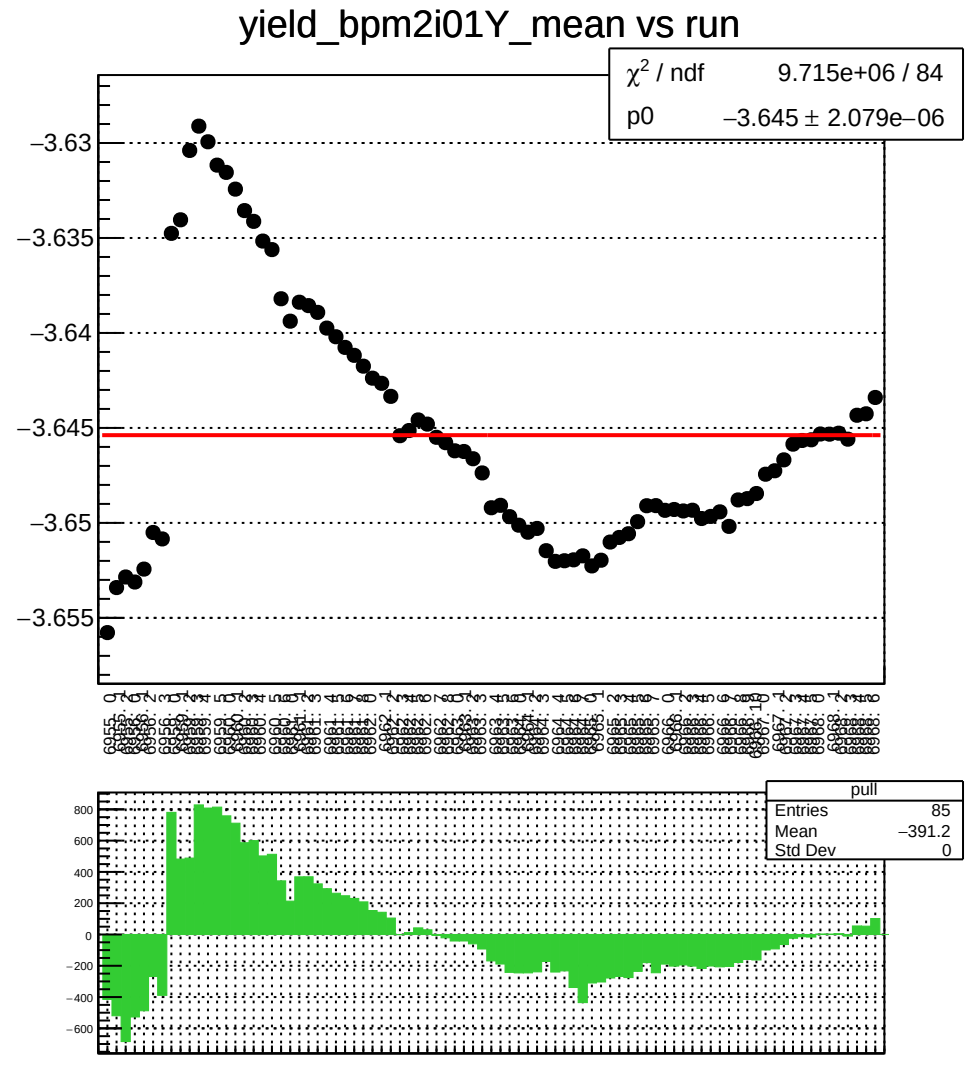

pull1D
Entries 85
Mean 0
Std Dev 0

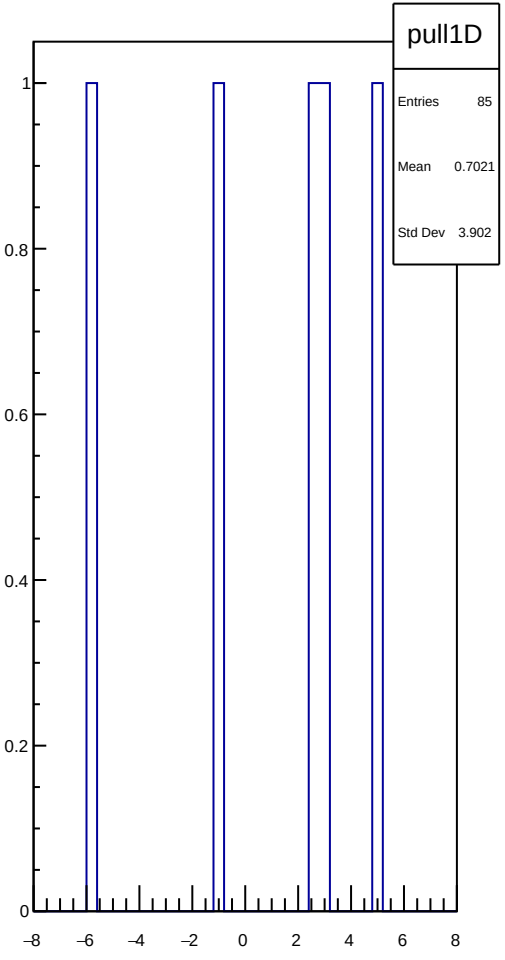

yield_bpm1i06Y_rms vs run
χ² / ndf 2.091e+05 / 84
p0 0.003545 ± 2.961e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

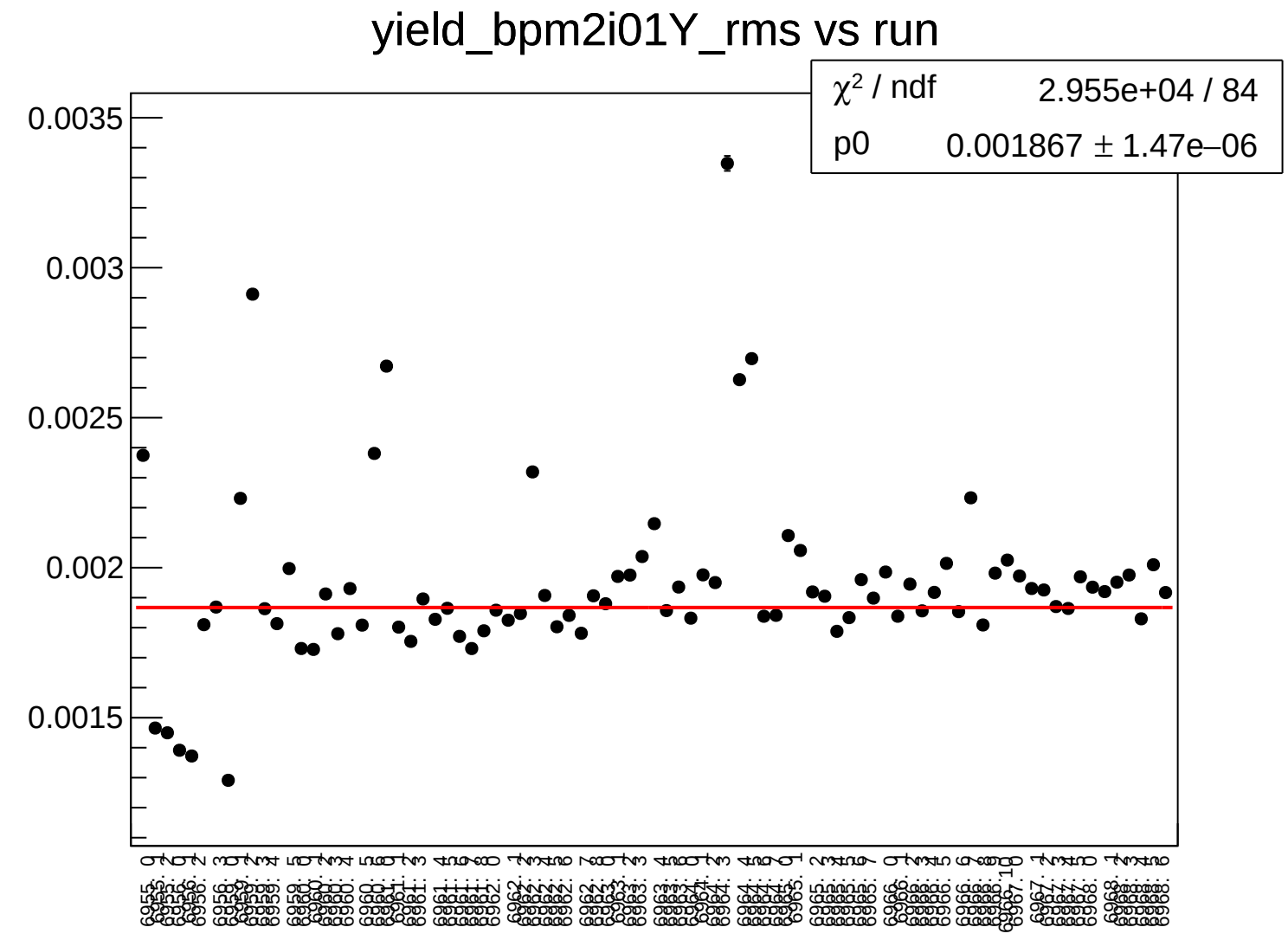

yield_bpm2i01X_mean vs run
χ² / ndf 1.465e+07 / 84
p0 0.5122 ± 1.963e−06
0.53
0.525
0.52
0.515
0.51
0.505
0.5
pull
Entries 85
Mean 2171
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

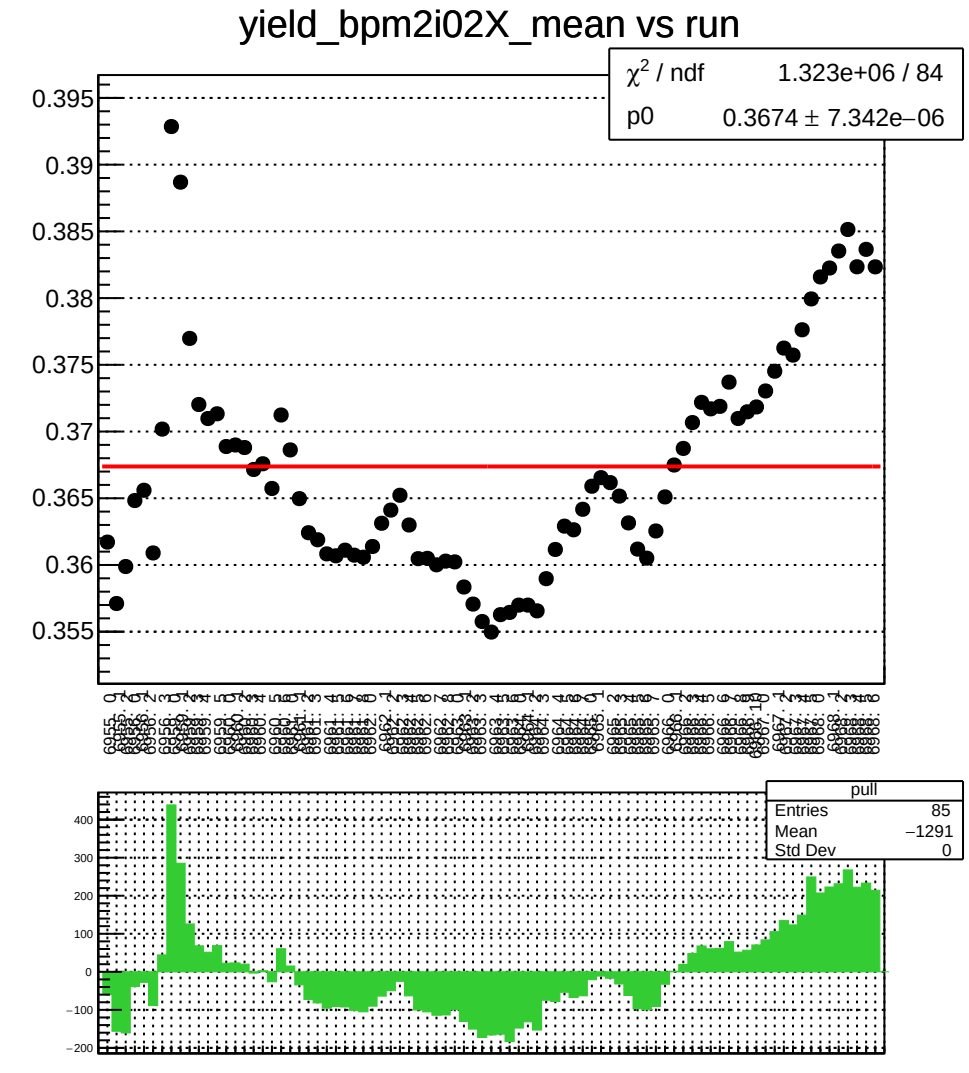

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

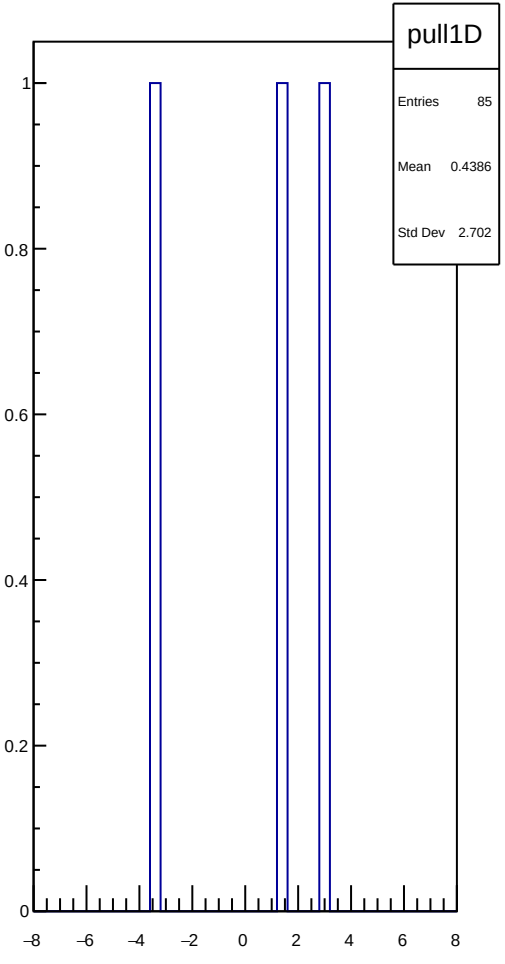

yield_bpm2i01X_rms vs run
χ² / ndf 1.6e+04 / 84
p0 0.00177 ± 1.388e–06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

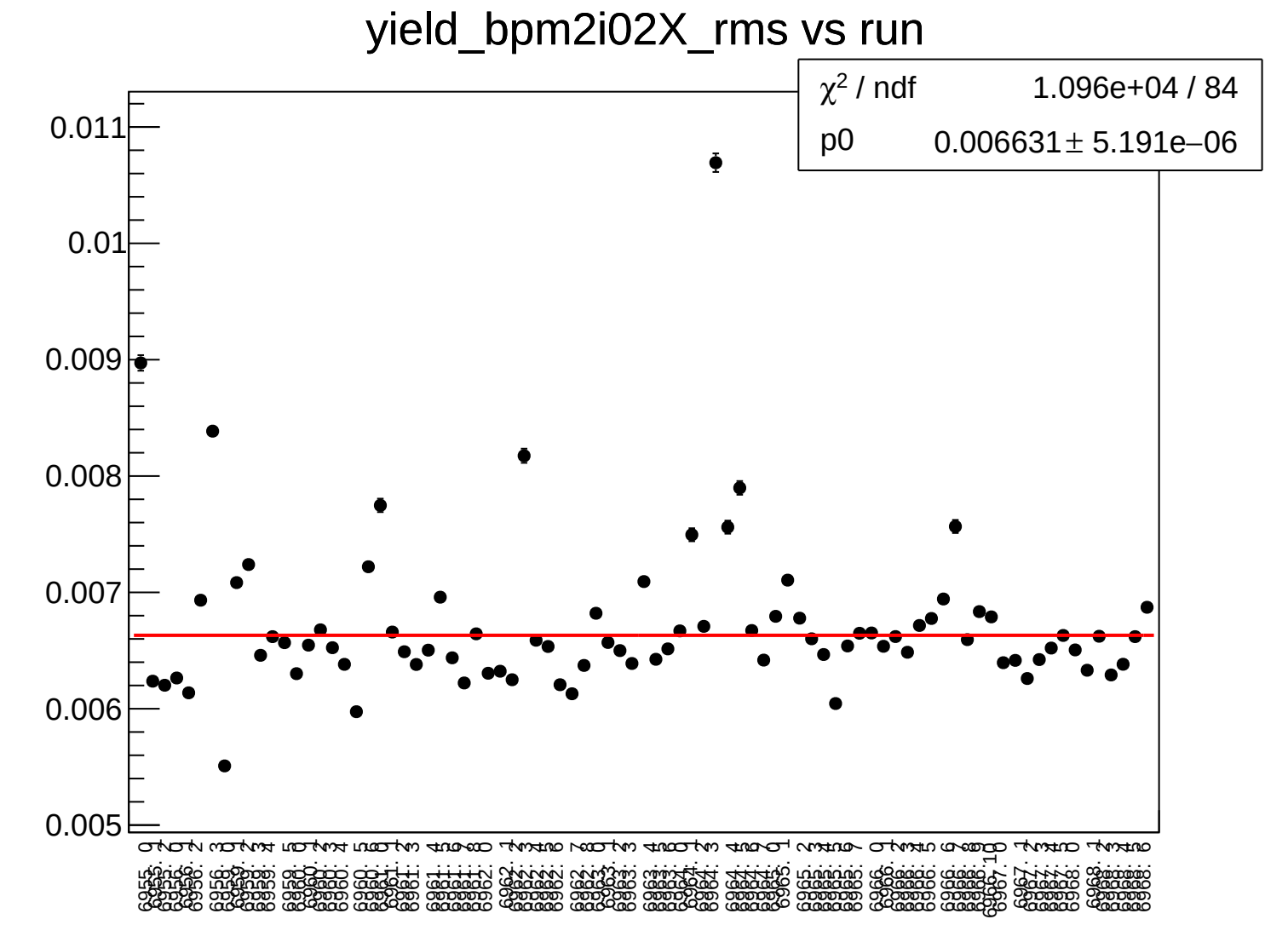

yield_bpm2i01Y_mean vs run
χ² / ndf 9.715e+06 / 84
p0 −3.645 ± 2.079e−06
−3.63
−3.635
−3.64
−3.645
−3.65
−3.655
pull
Entries 85
Mean −391.2
Std Dev 0
800
600
400
200
0
−200
−400
−600

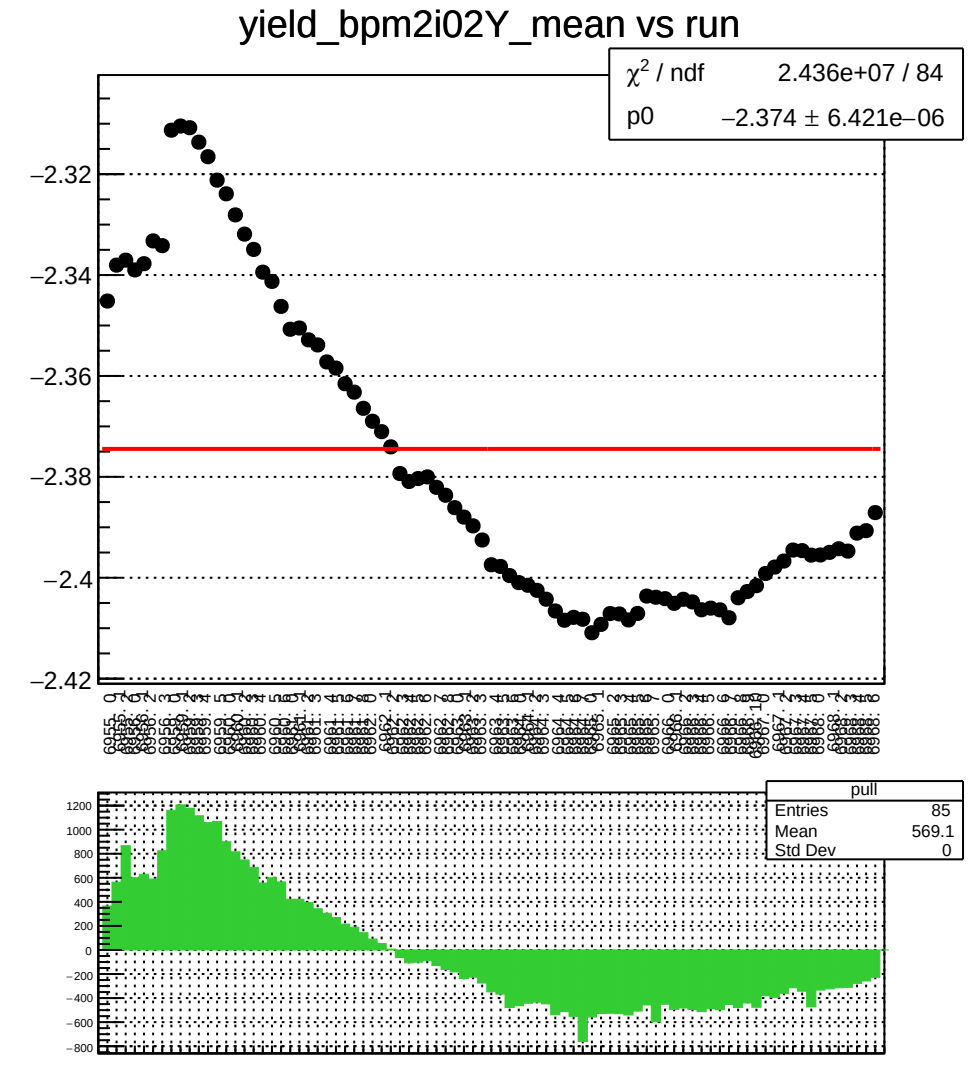

pull1D
Entries 85
Mean 0.7021
Std Dev 3.902
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

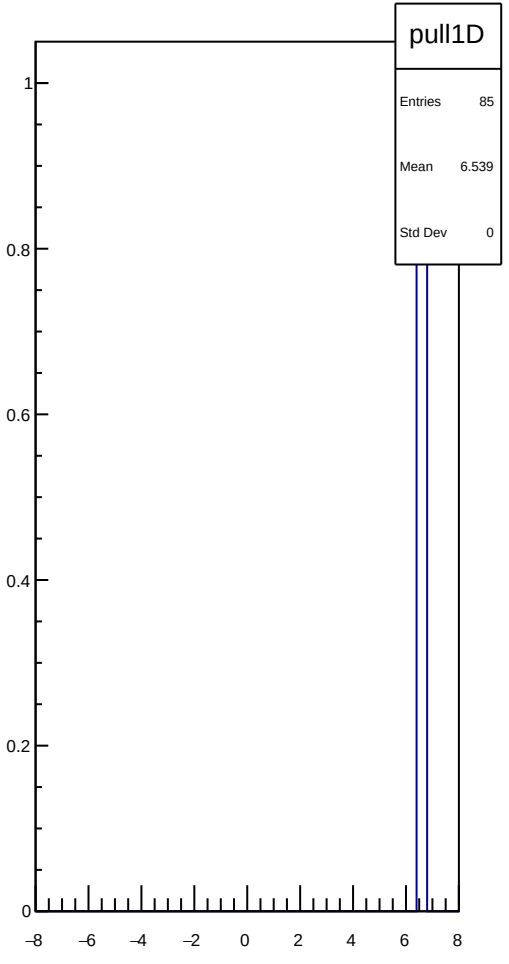

yield_bpm2i01Y_rms vs run
χ² / ndf 2.955e+04 / 84
p0 0.001867 ± 1.47e–06
0.0035
0.003
0.0025
0.002
0.0015

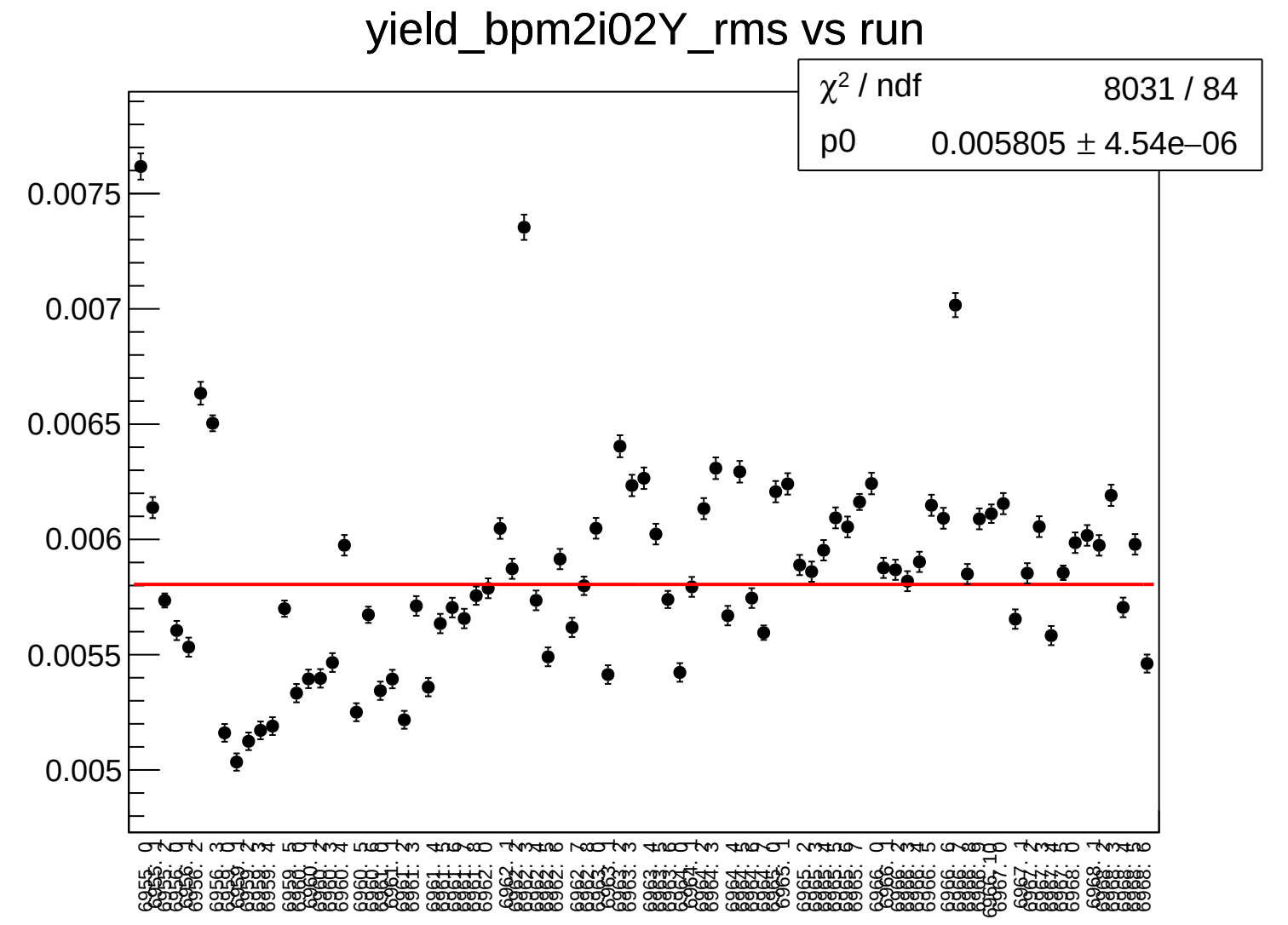

yield_bpm2i02X_mean vs run
χ² / ndf 1.323e+06 / 84
p0 0.3674 ± 7.342e−06
pull
Entries 85
Mean −1291
Std Dev 0

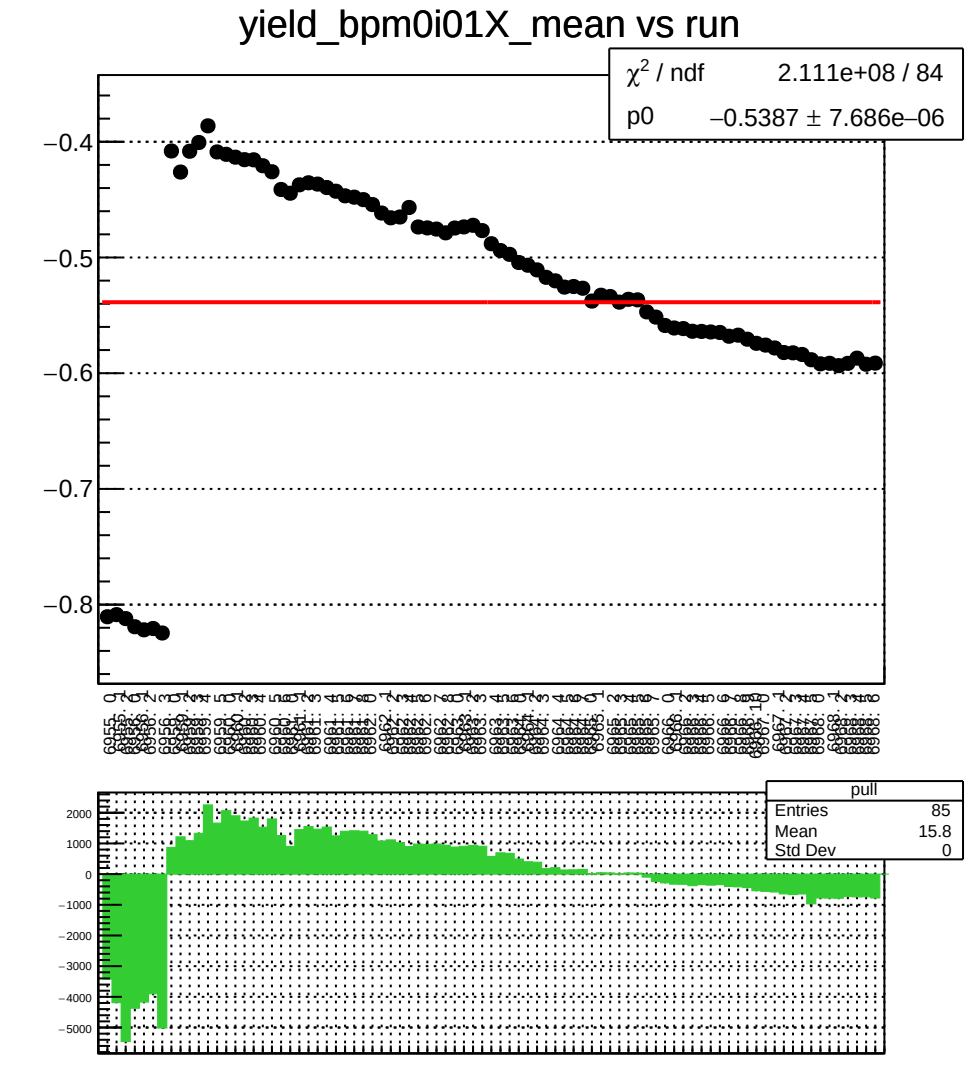

pull1D
Entries 85
Mean 0.4386
Std Dev 2.702

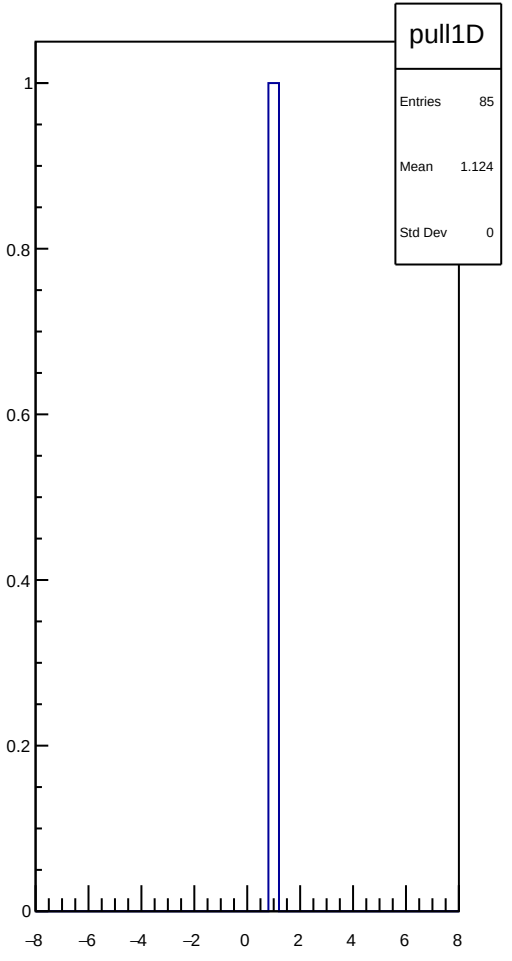

yield_bpm2i02X_rms vs run
χ² / ndf 1.096e+04 / 84
p0 0.006631 ± 5.191e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

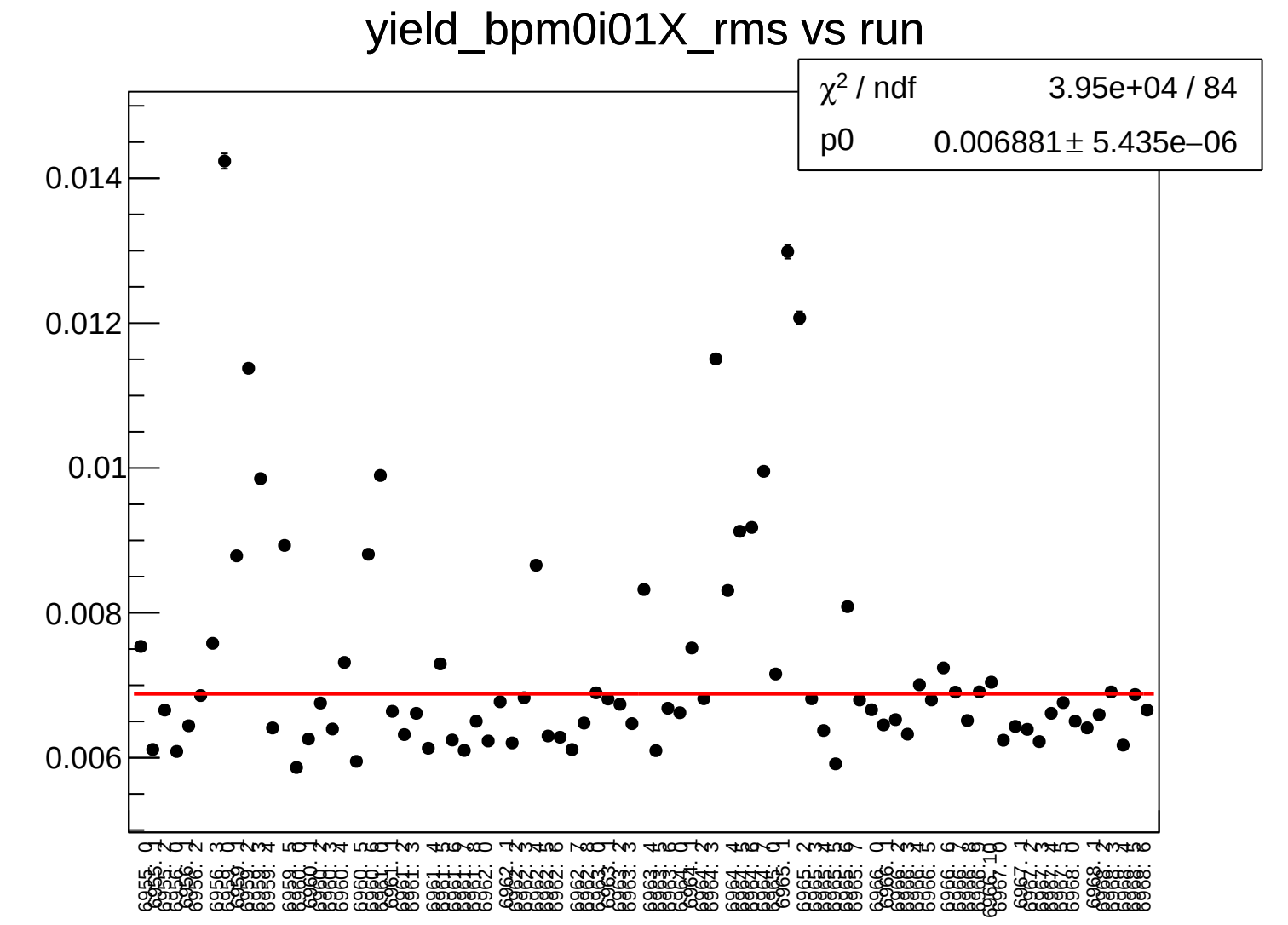

yield_bpm2i02Y_mean vs run
χ² / ndf 2.436e+07 / 84
p0 −2.374 ± 6.421e−06
−2.32
−2.34
−2.36
−2.38
−2.4
−2.42
pull
Entries 85
Mean 569.1
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

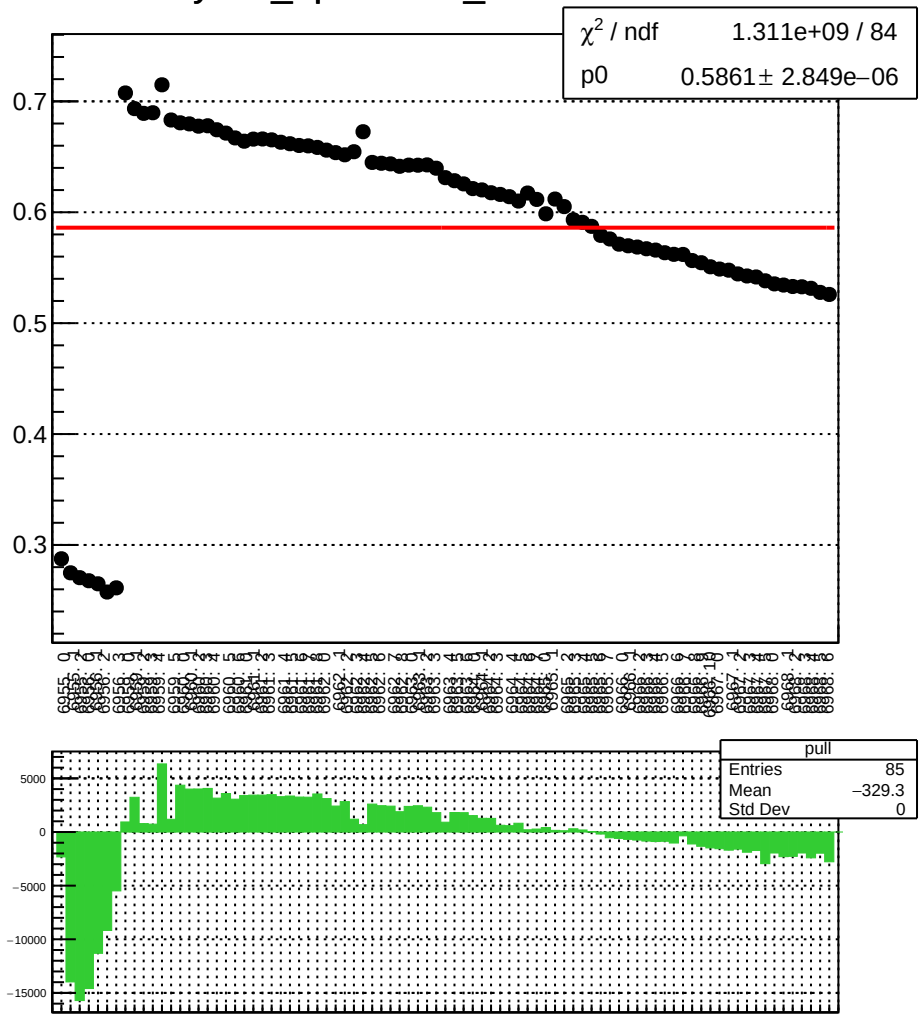

pull1D
Entries 85
Mean 6.539
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

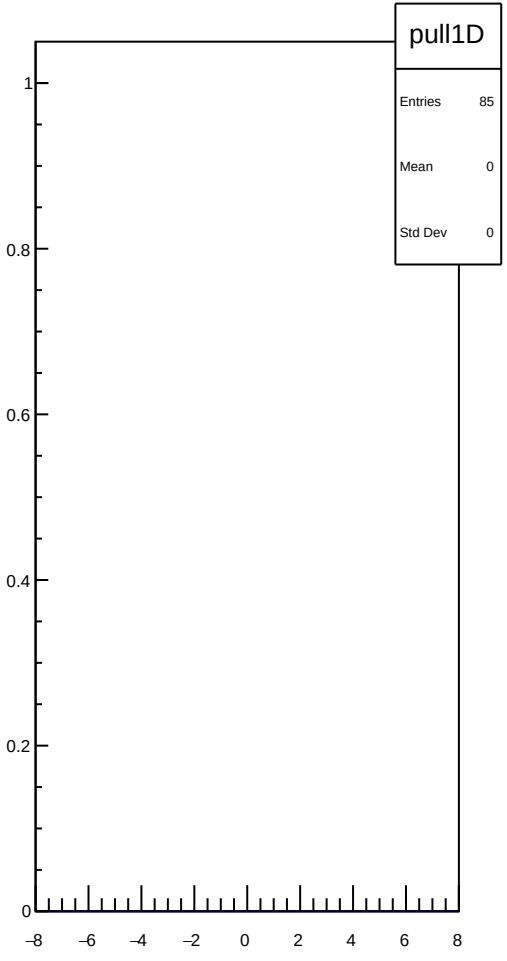

yield_bpm2i02Y_rms vs run
χ² / ndf 8031 / 84
p0 0.005805 ± 4.54e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005

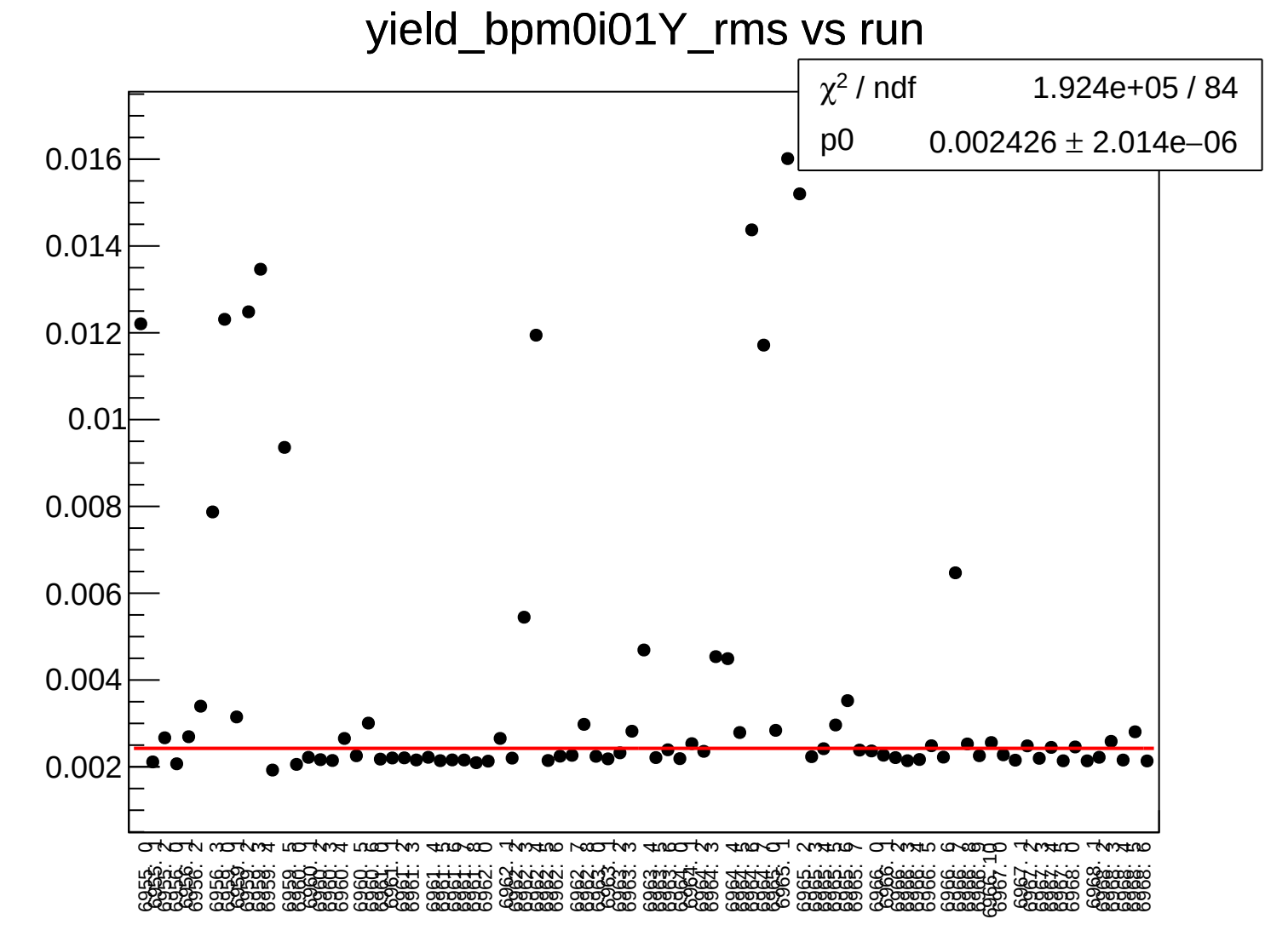

yield_bpm0i01X_mean vs run
χ² / ndf 2.111e+08 / 84
p0 −0.5387 ± 7.686e−06
−0.4
−0.5
−0.6
−0.7
−0.8
pull
Entries 85
Mean 15.8
Std Dev 0
2000
1000
0
−1000
−2000
−3000
−4000
−5000

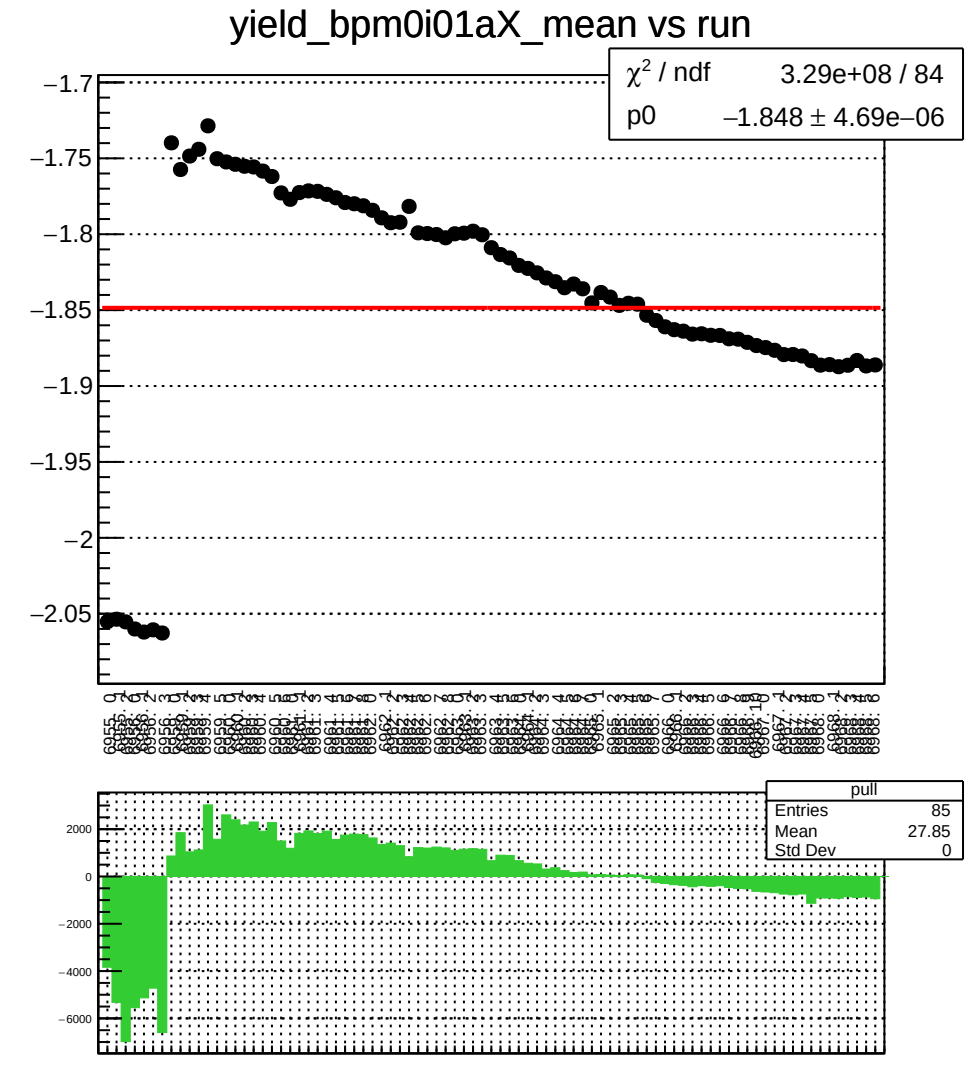

pull1D
Entries 85
Mean 1.124
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

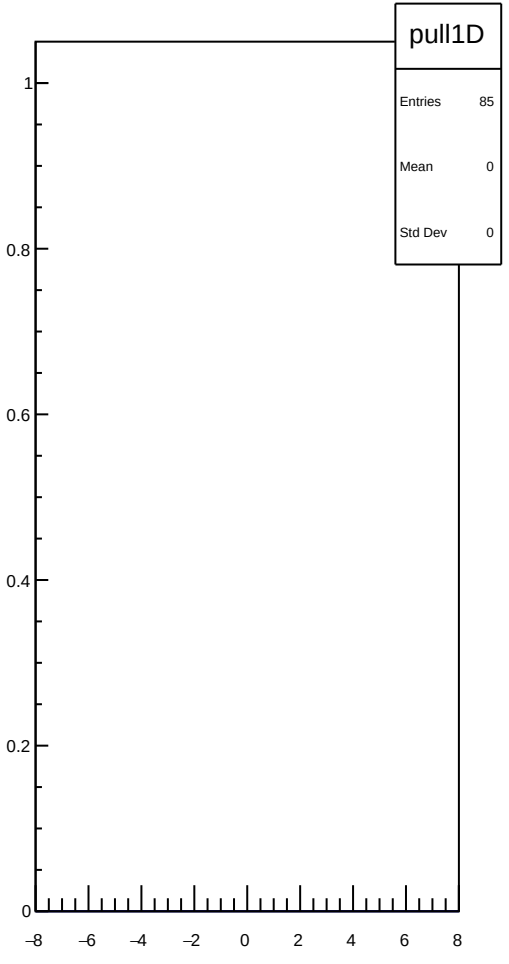

yield_bpm0i01X_rms vs run
χ² / ndf 3.95e+04 / 84
p0 0.006881 ± 5.435e−06
0.014
0.012
0.01
0.008
0.006

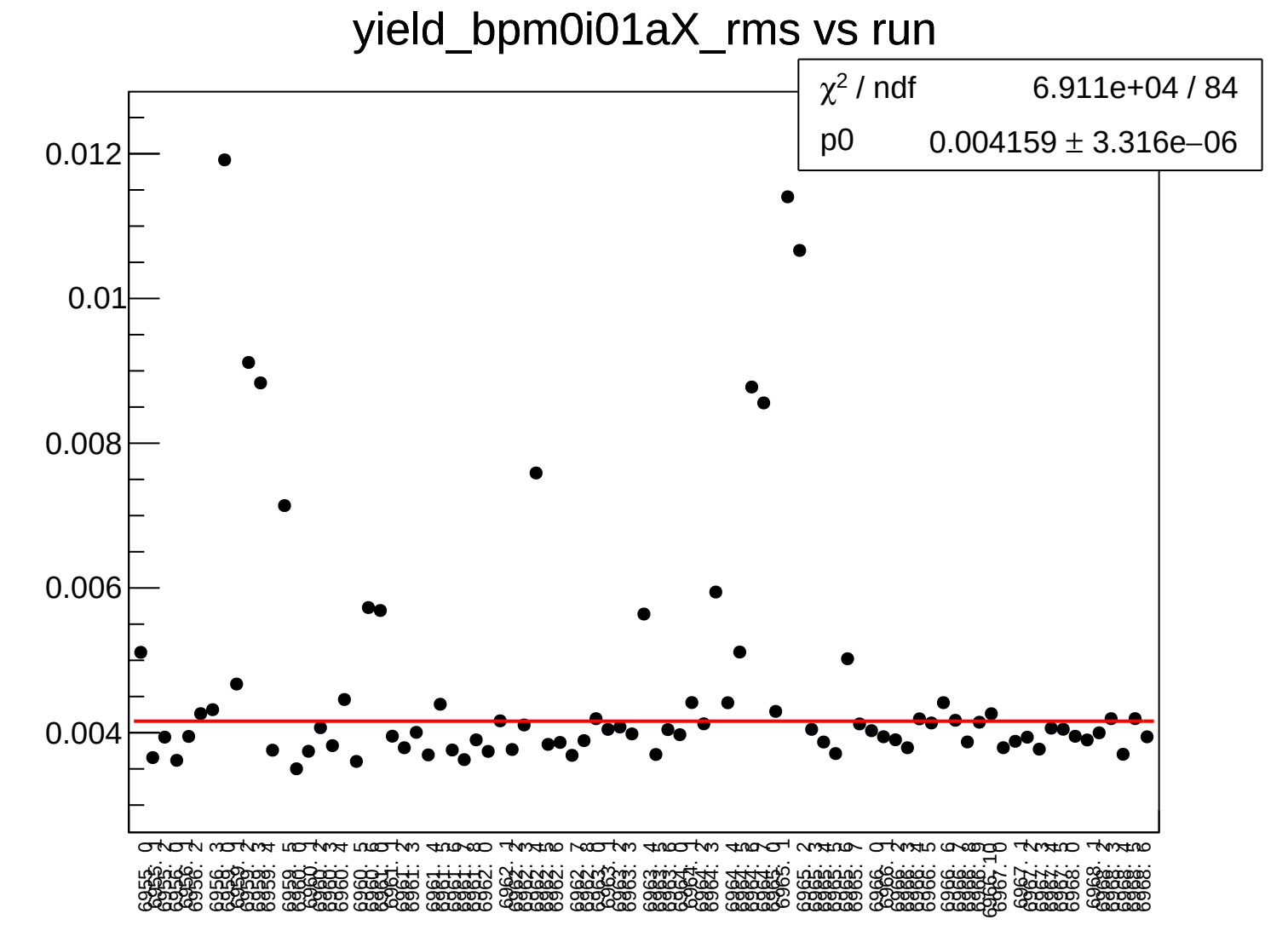

yield_bpm0i01Y_mean vs run
χ² / ndf 1.311e+09 / 84
p0 0.5861 ± 2.849e−06
0.7
0.6
0.5
0.4
0.3
pull
Entries 85
Mean −329.3
Std Dev 0
5000
0
−5000
−10000
−15000

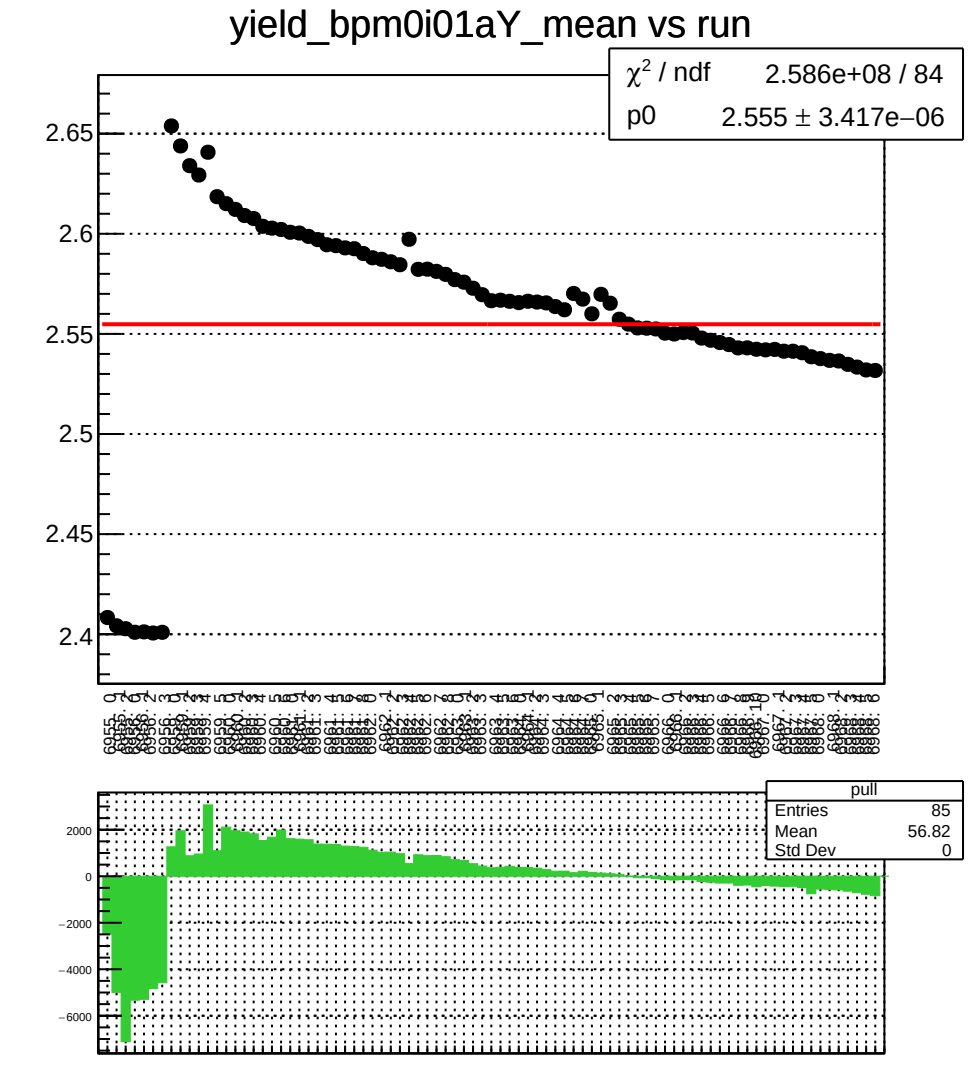

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

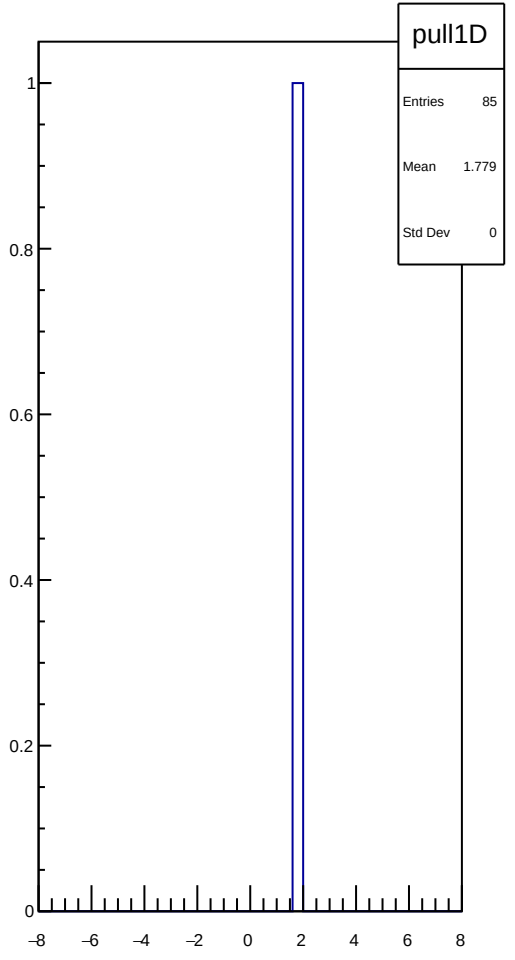

yield_bpm0i01Y_rms vs run
χ² / ndf 1.924e+05 / 84
p0 0.002426 ± 2.014e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

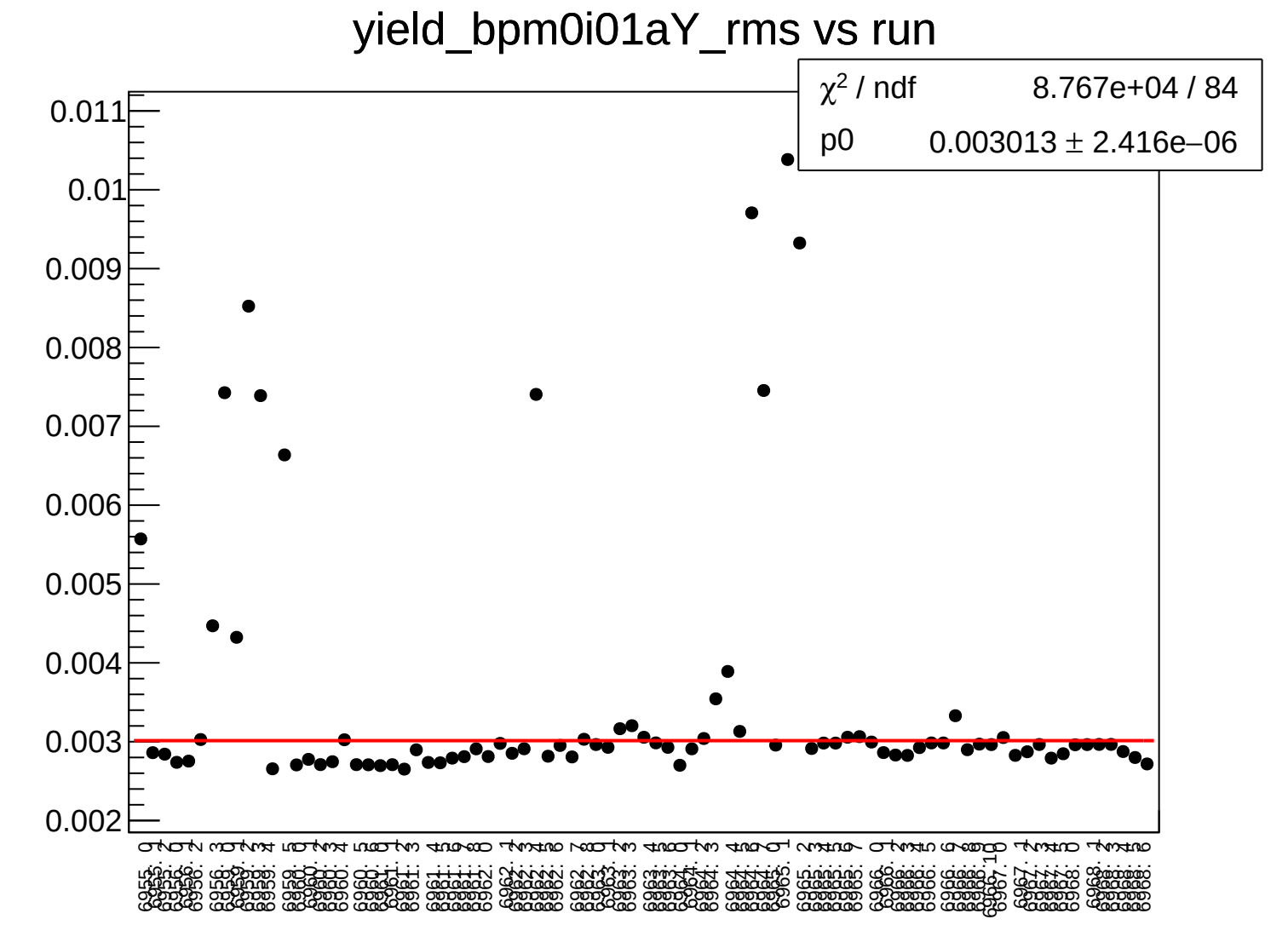

yield_bpm0i01aX_mean vs run
χ² / ndf 3.29e+08 / 84
p0 −1.848 ± 4.69e−06
−1.7
−1.75
−1.8
−1.85
−1.9
−1.95
−2
−2.05
pull
Entries 85
Mean 27.85
Std Dev 0
2000
0
−2000
−4000
−6000

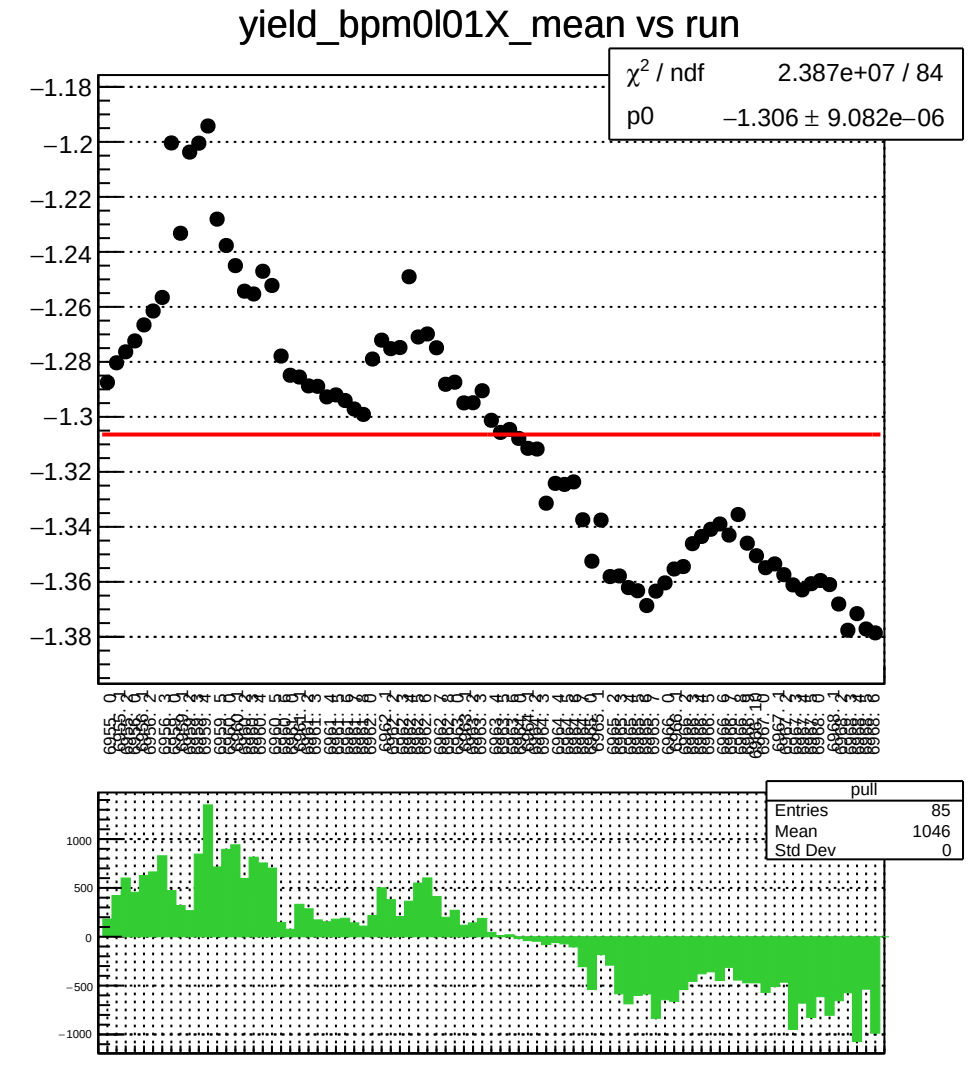

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

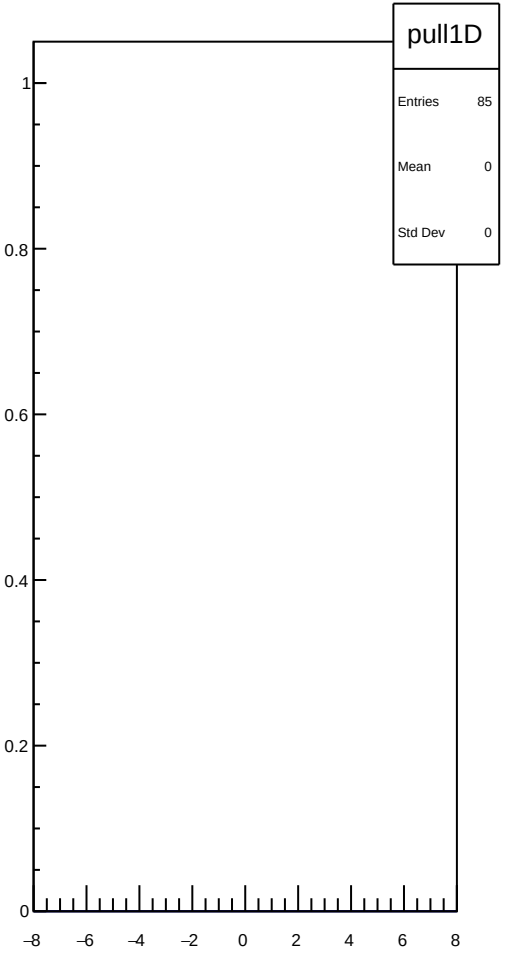

yield_bpm0i01aX_rms vs run
χ² / ndf 6.911e+04 / 84
p0 0.004159 ± 3.316e−06
0.012
0.01
0.008
0.006
0.004

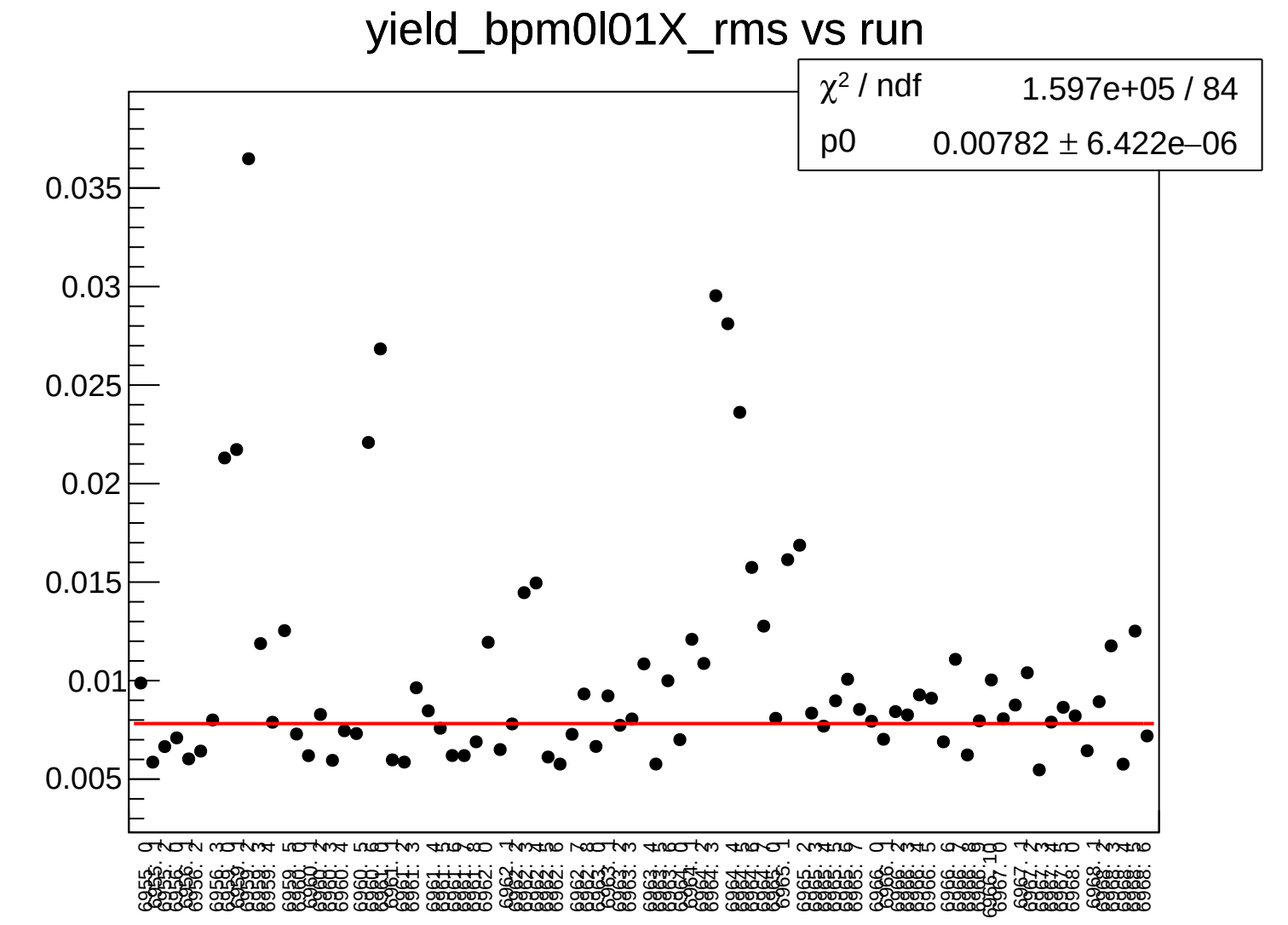

yield_bpm0i01aY_mean vs run
χ² / ndf 2.586e+08 / 84
p0 2.555 ± 3.417e−06
2.65
2.6
2.55
2.5
2.45
2.4
pull
Entries 85
Mean 56.82
Std Dev 0
2000
0
−2000
−4000
−6000

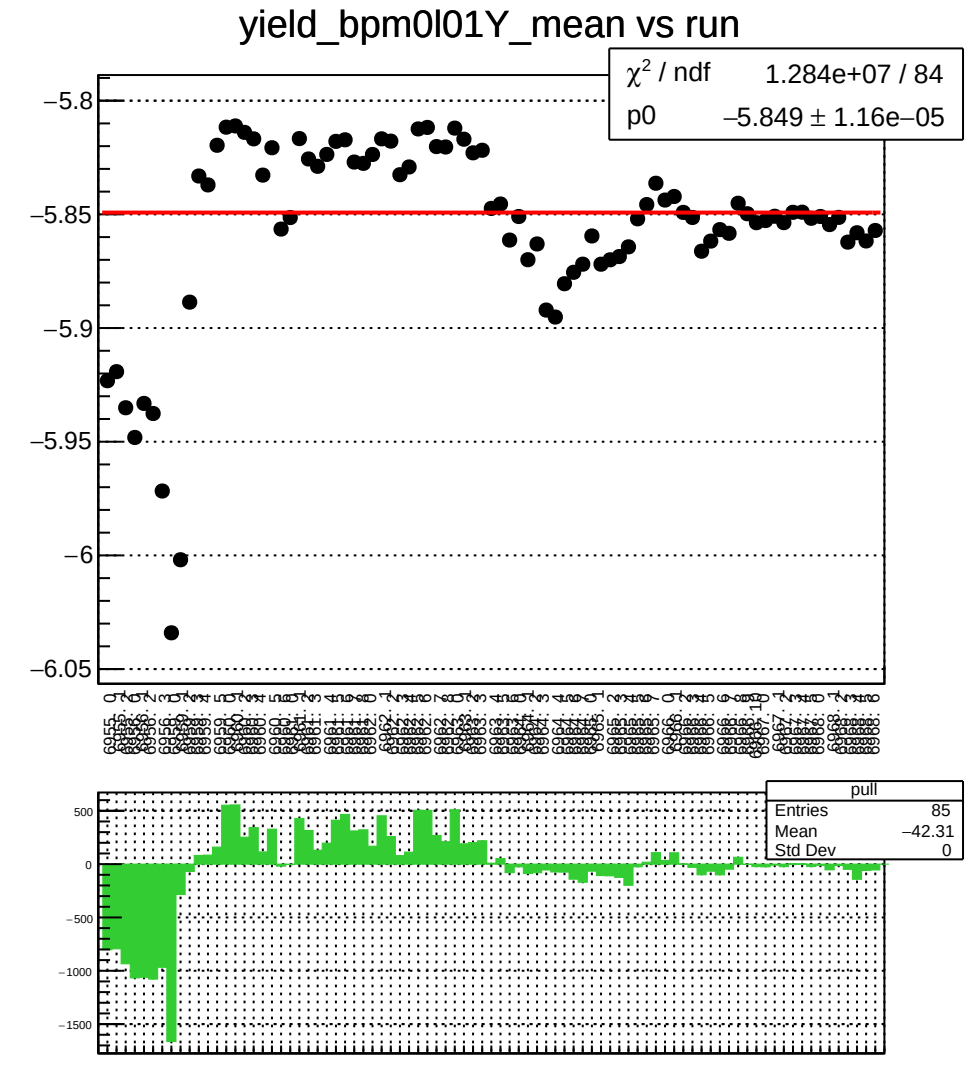

pull1D
Entries 85
Mean 1.779
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

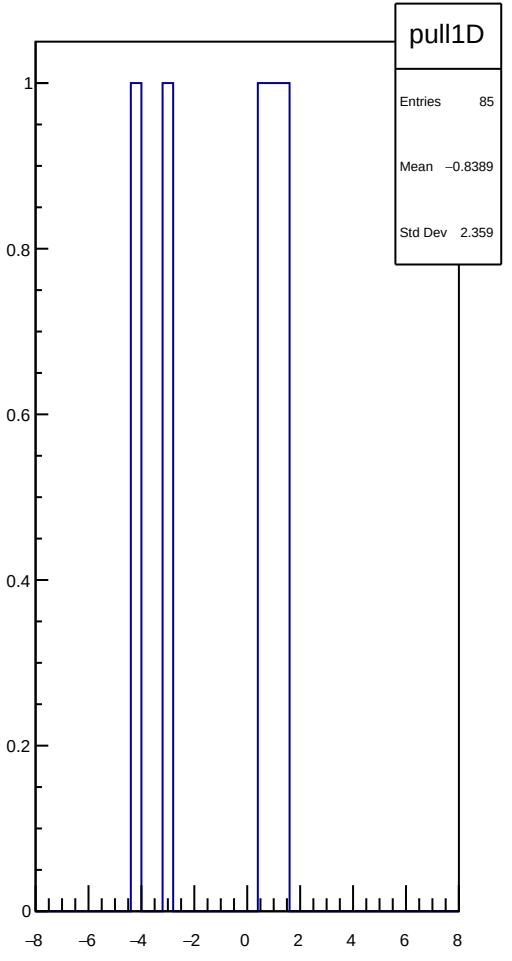

yield_bpm0i01aY_rms vs run
χ² / ndf 8.767e+04 / 84
p0 0.003013 ± 2.416e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

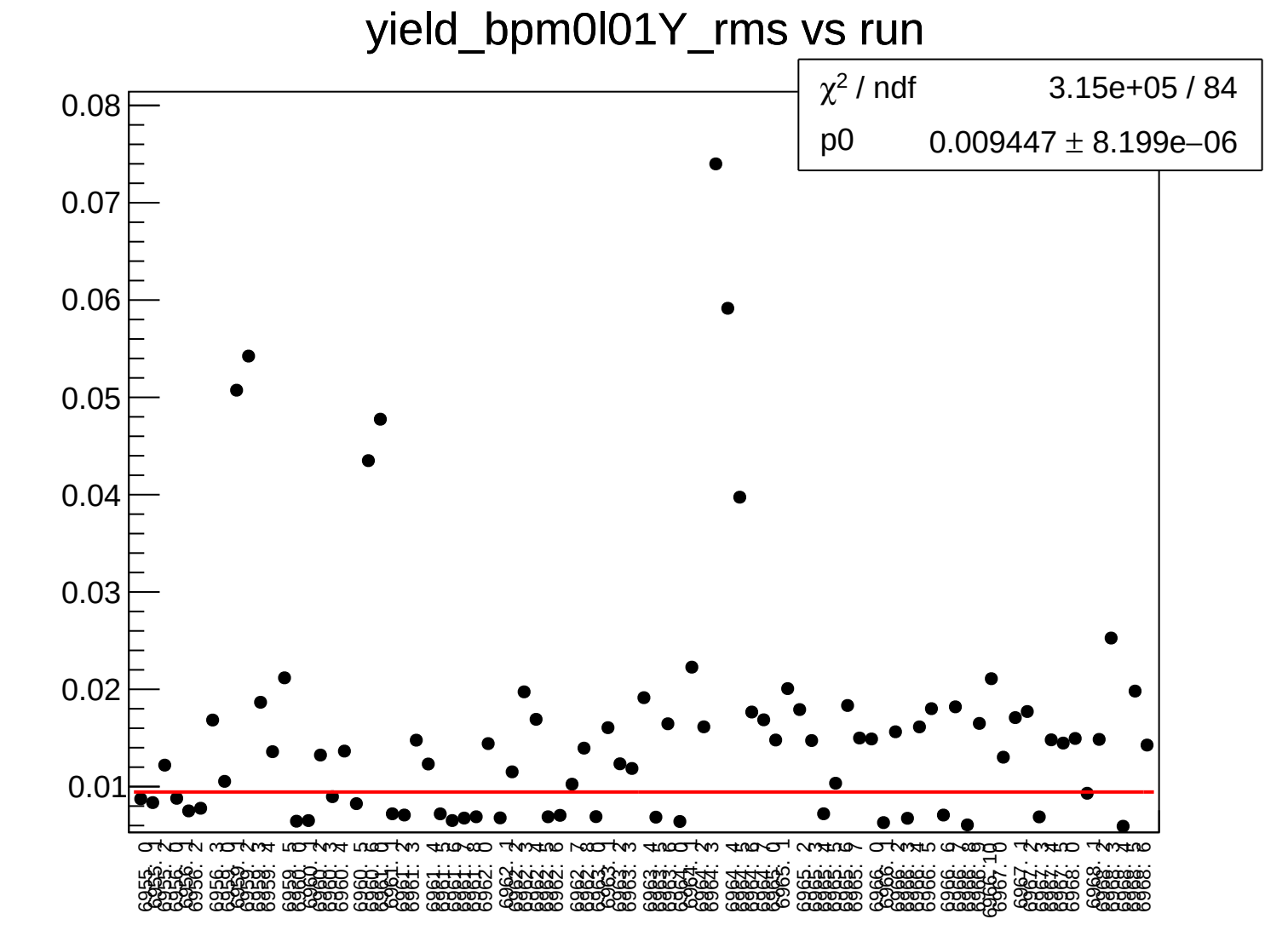

yield_bpm0l01X_mean vs run
χ² / ndf 2.387e+07 / 84
p0 −1.306 ± 9.082e−06
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
−1.34
−1.36
−1.38
pull
Entries 85
Mean 1046
Std Dev 0
1000
500
0
−500
−1000

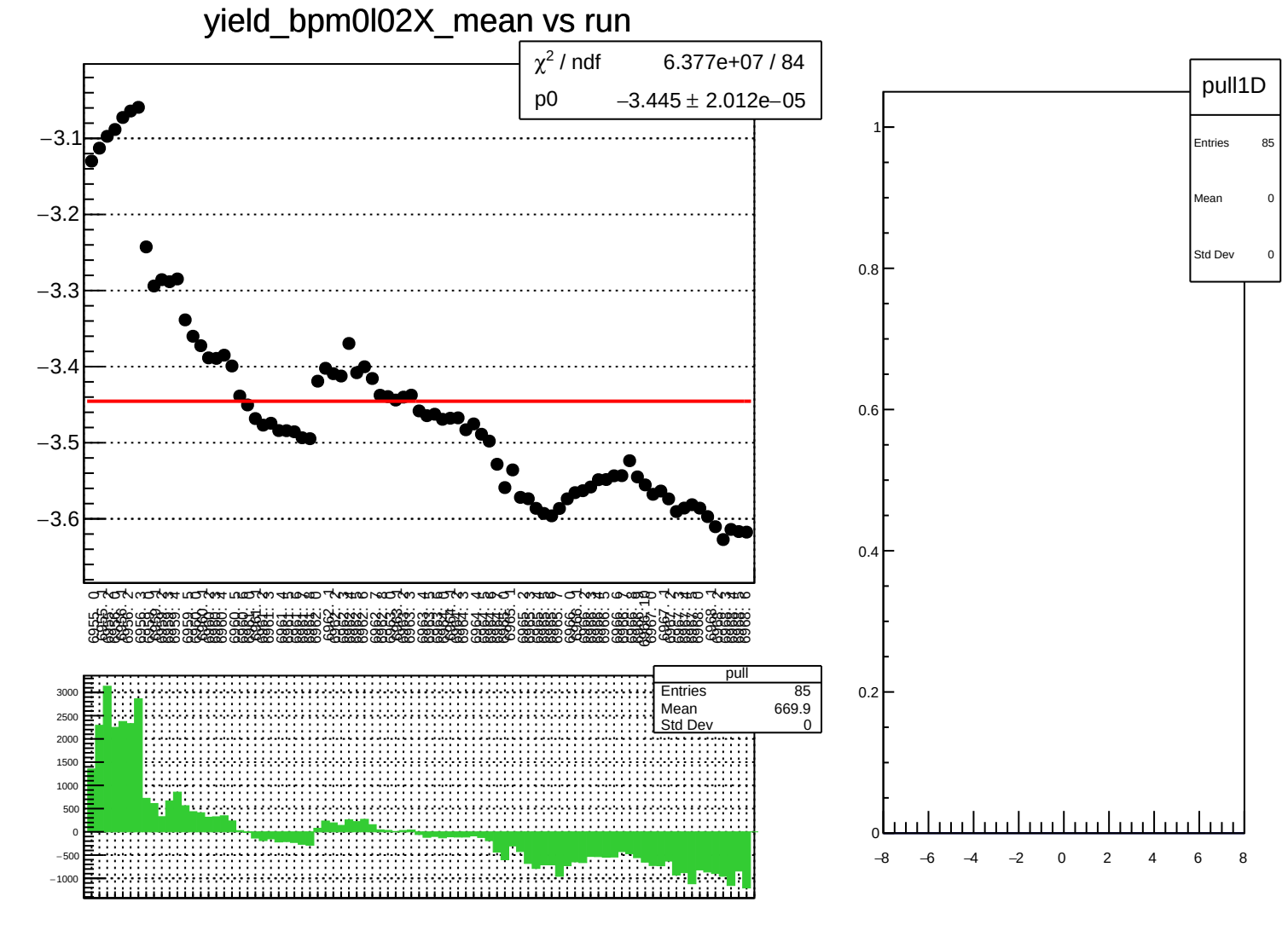

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

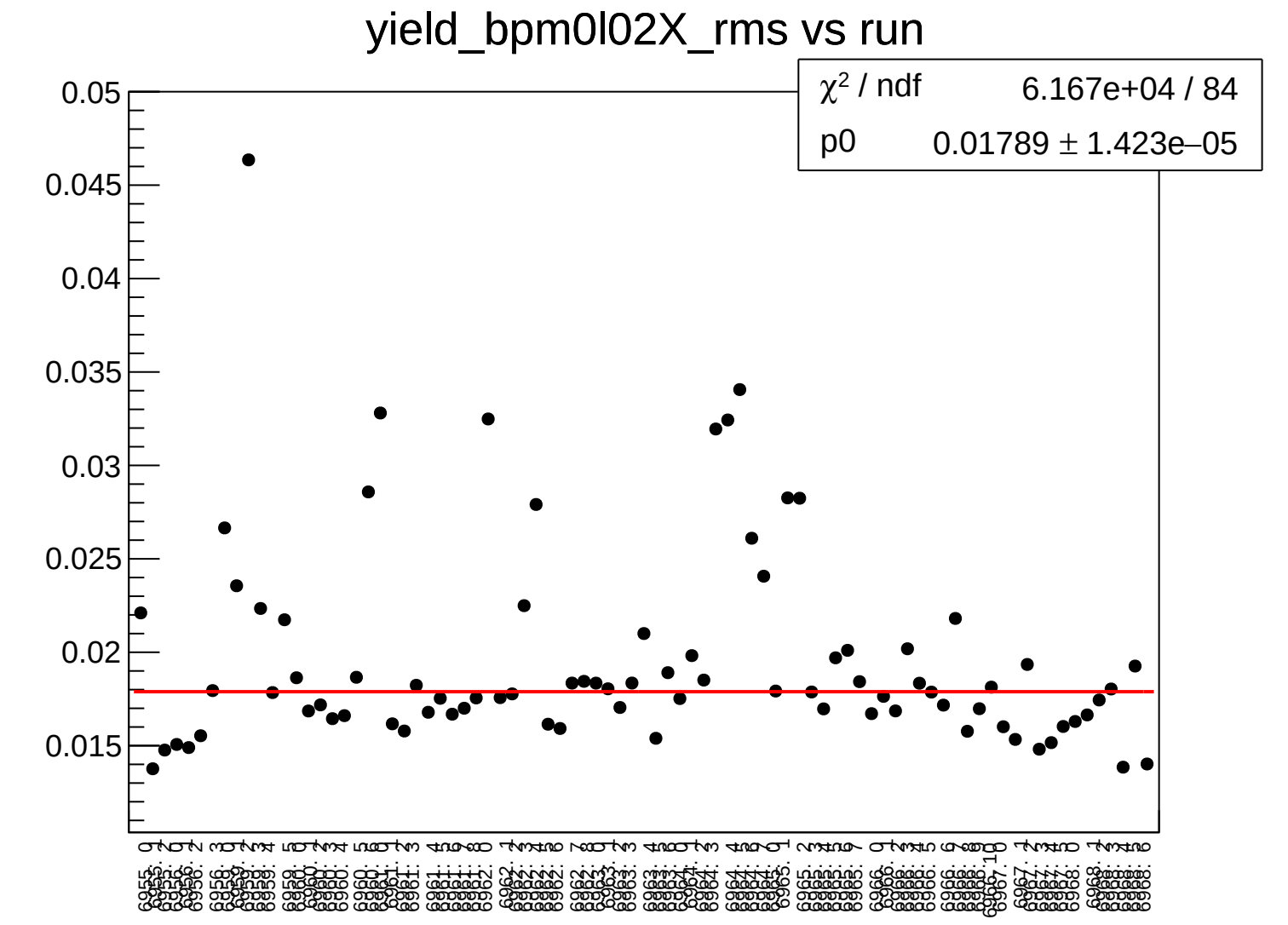

yield_bpm0l01X_rms vs run
χ² / ndf 1.597e+05 / 84
p0 0.00782 ± 6.422e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

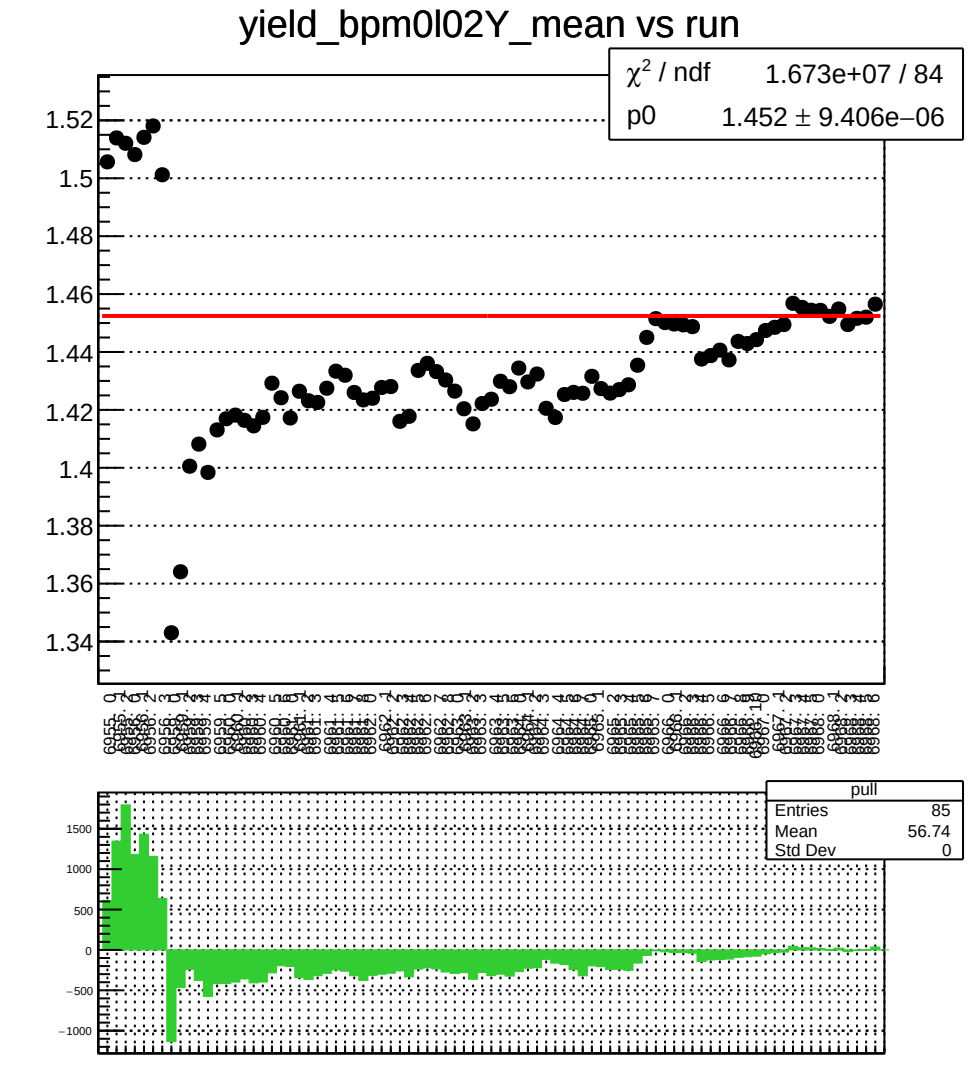

yield_bpm0l01Y_mean vs run
χ² / ndf 1.284e+07 / 84
p0 −5.849 ± 1.16e−05
−5.8
−5.85
−5.9
−5.95
−6
−6.05
pull
Entries 85
Mean −42.31
Std Dev 0
500
0
−500
−1000
−1500

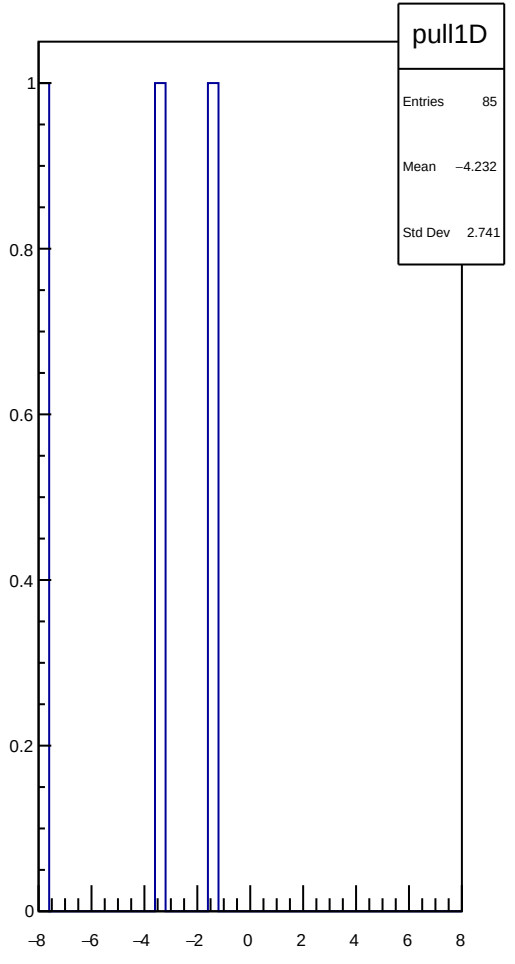

pull1D
Entries 85
Mean −0.8389
Std Dev 2.359
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

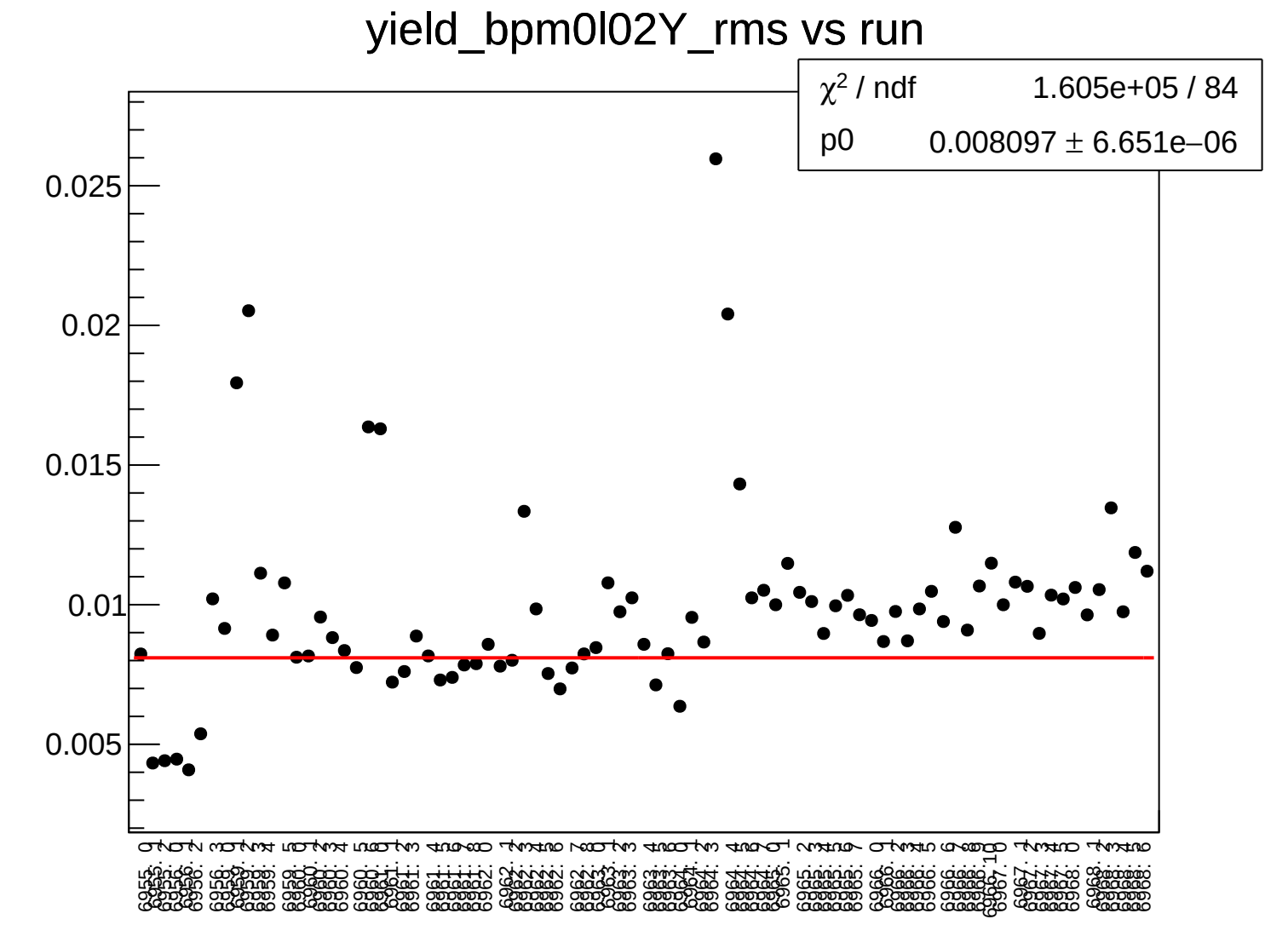

yield_bpm0l01Y_rms vs run
χ² / ndf 3.15e+05 / 84
p0 0.009447 ± 8.199e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

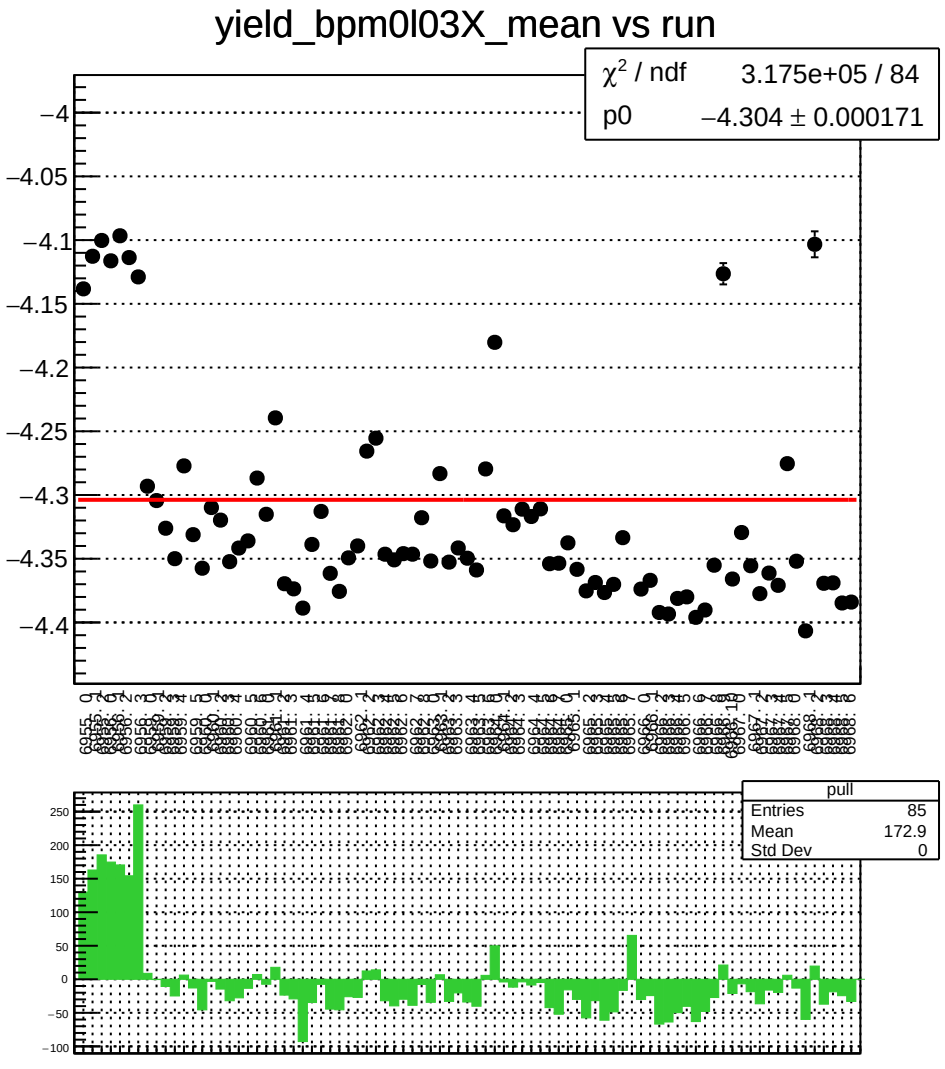

yield_bpm0l02X_mean vs run
χ² / ndf 6.377e+07 / 84
p0 −3.445 ± 2.012e−05
−3.1
−3.2
−3.3
−3.4
−3.5
−3.6
pull
Entries 85
Mean 669.9
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

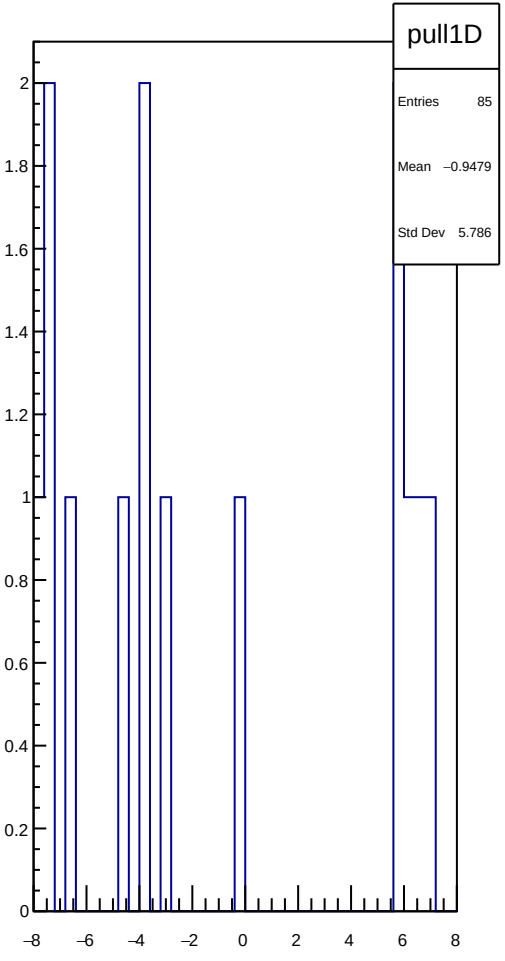

yield_bpm0l02X_rms vs run
χ² / ndf 6.167e+04 / 84
p0 0.01789 ± 1.423e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

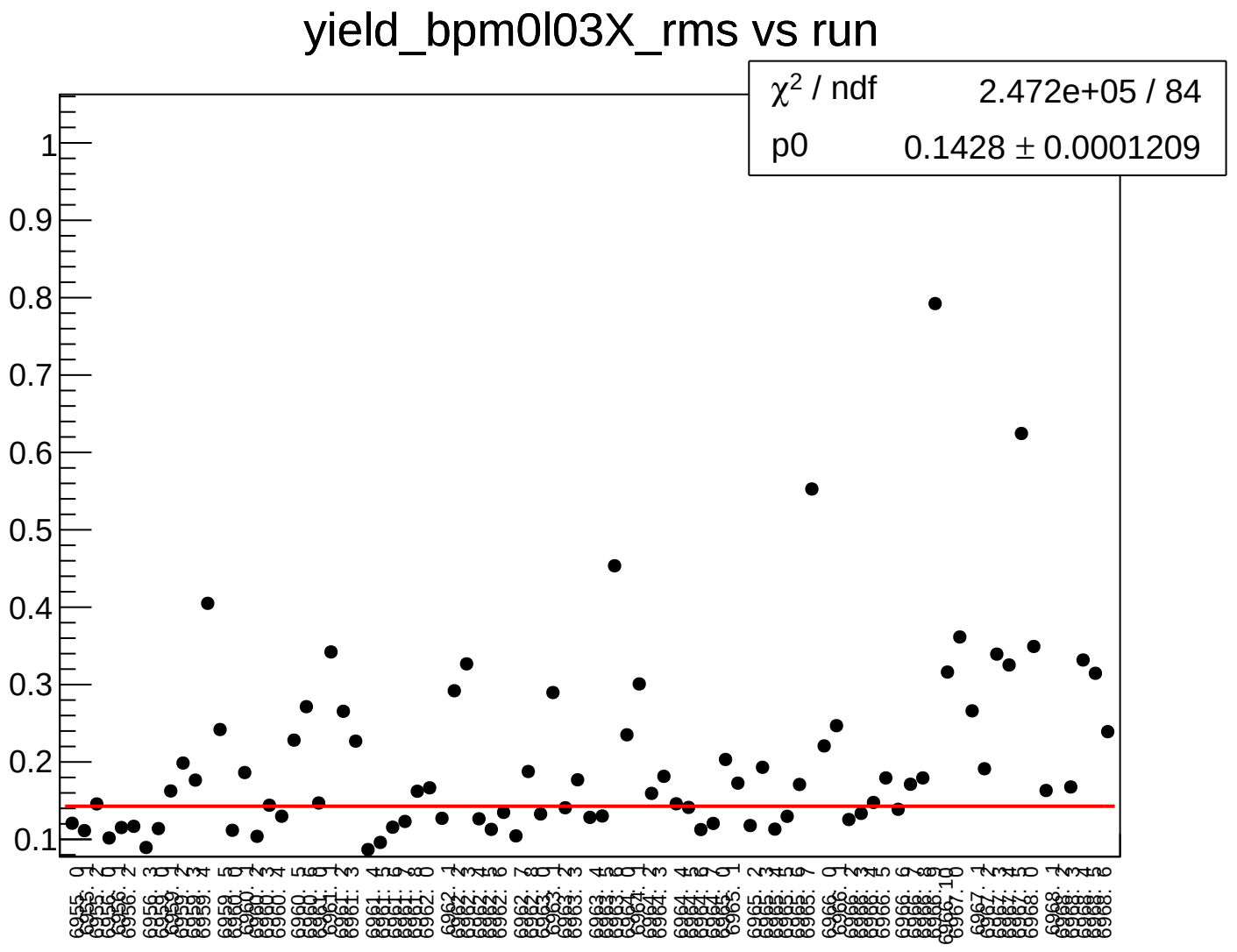

yield_bpm0l02Y_mean vs run
χ² / ndf 1.673e+07 / 84
p0 1.452 ± 9.406e−06
pull
Entries 85
Mean 56.74
Std Dev 0

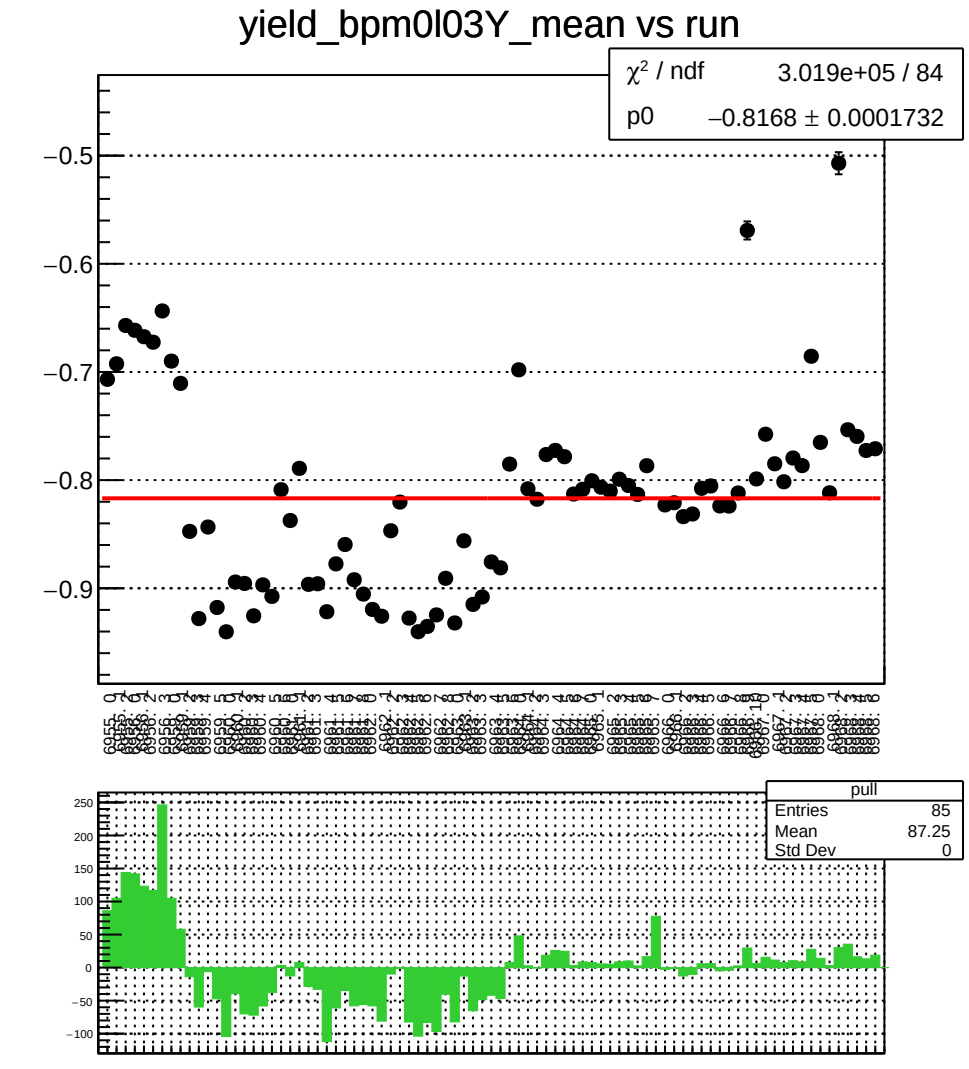

pull1D
Entries 85
Mean −4.232
Std Dev 2.741

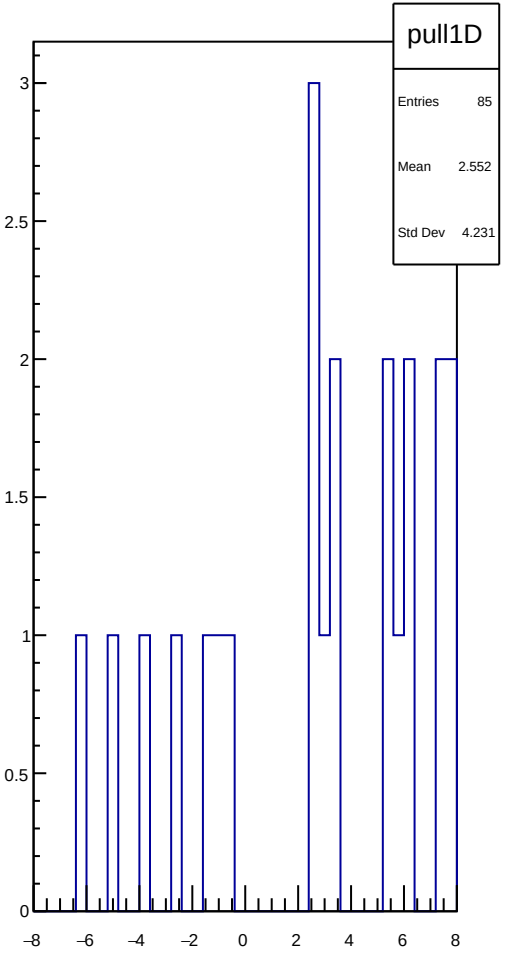

yield_bpm0l02Y_rms vs run
χ² / ndf 1.605e+05 / 84
p0 0.008097 ± 6.651e−06
0.025
0.02
0.015
0.01
0.005

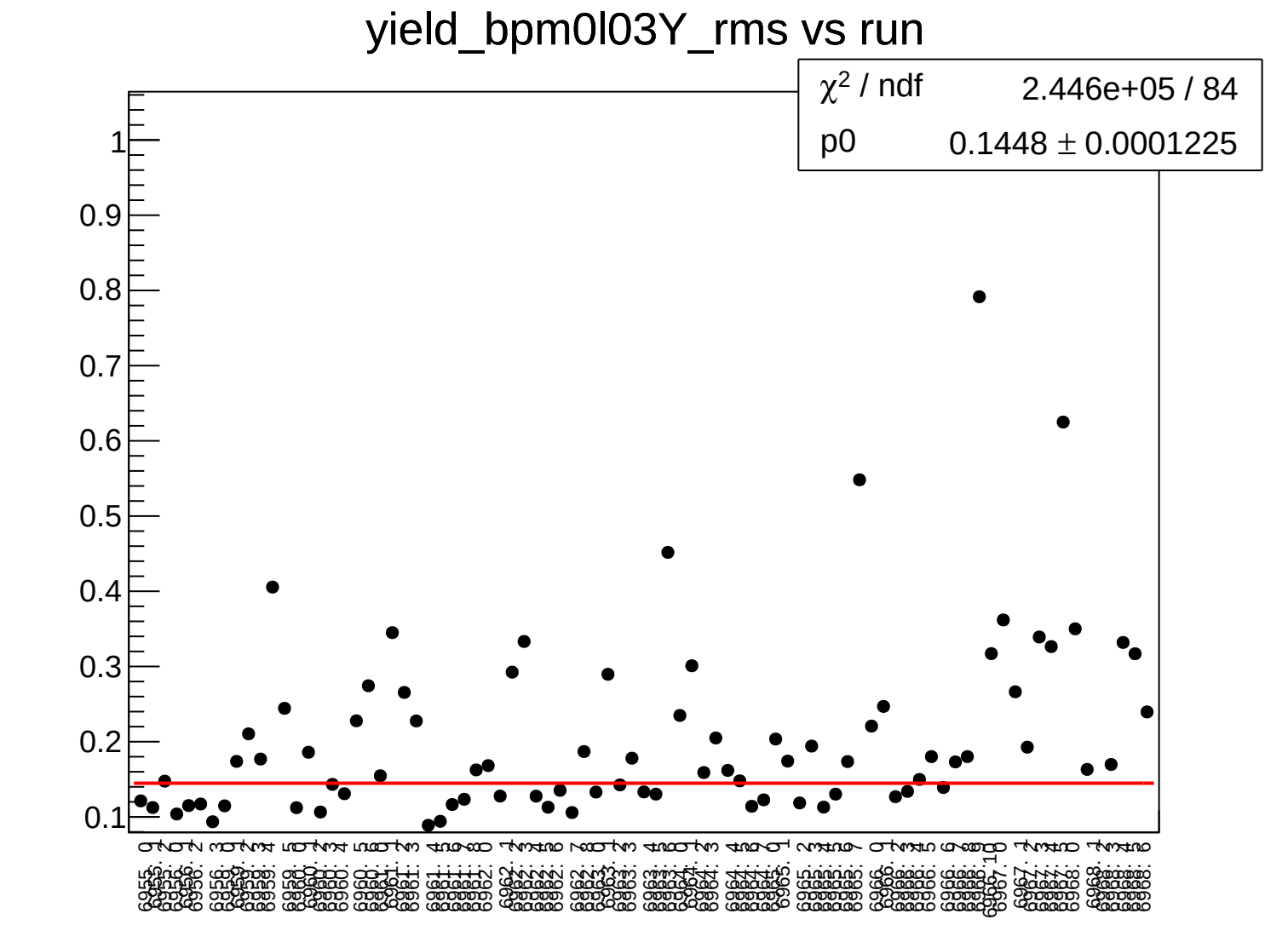

yield_bpm0l03X_mean vs run
χ² / ndf 3.175e+05 / 84
p0 −4.304 ± 0.000171
pull
Entries 85
Mean 172.9
Std Dev 0

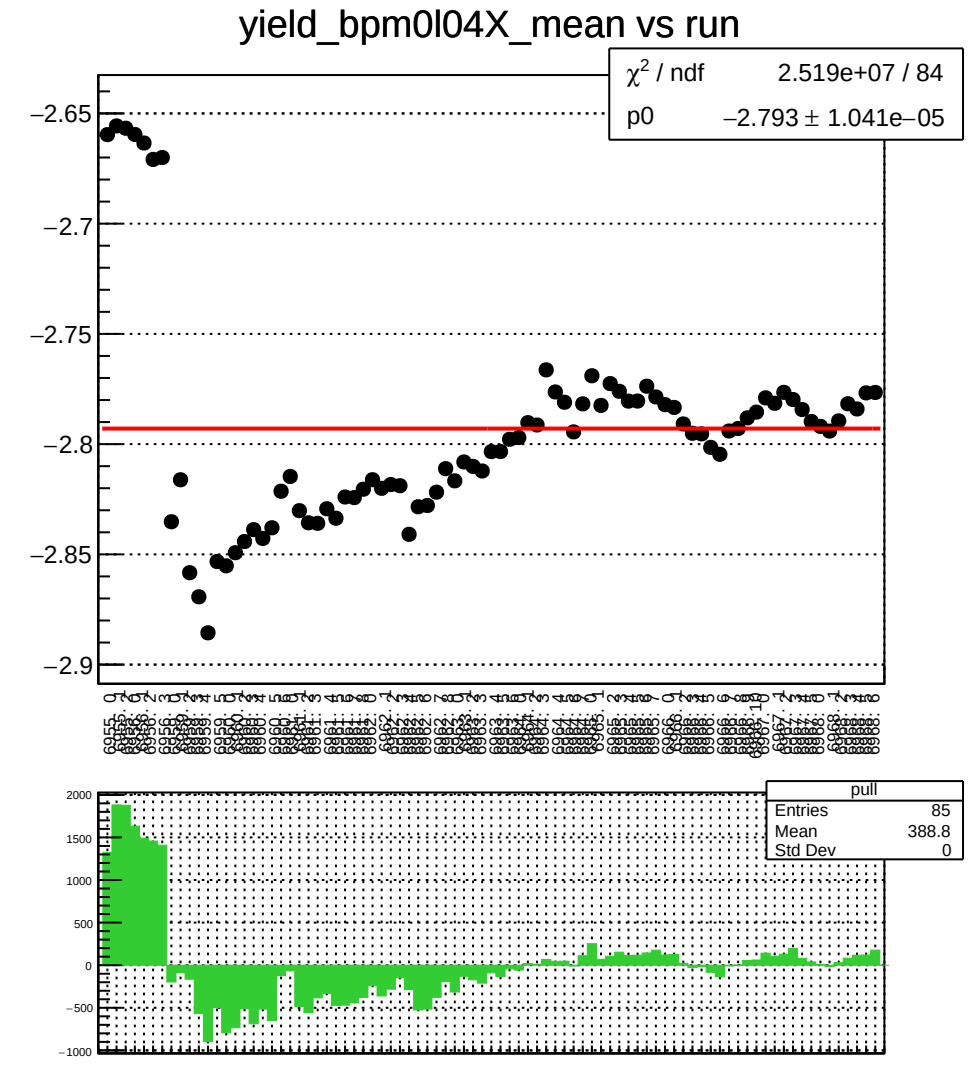

pull1D
Entries 85
Mean −0.9479
Std Dev 5.786

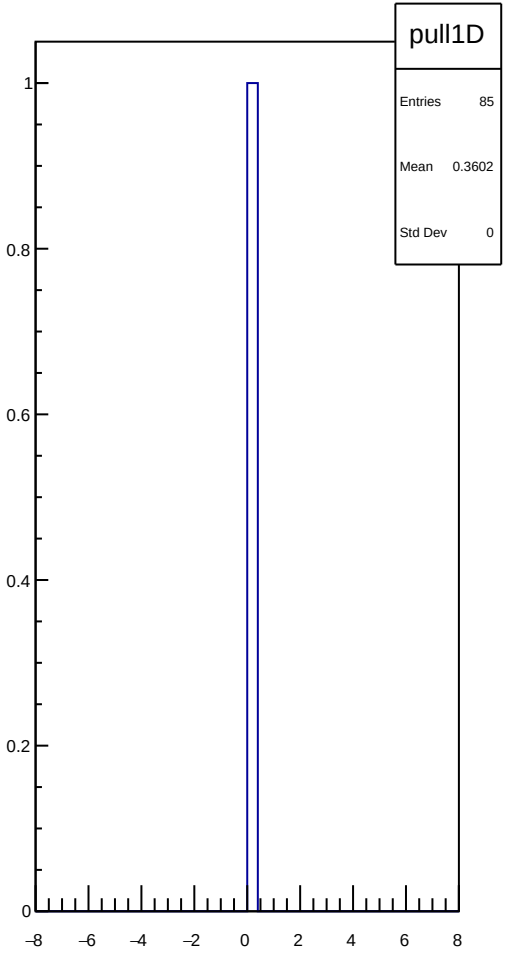

yield_bpm0l03X_rms vs run
χ² / ndf 2.472e+05 / 84
p0 0.1428 ± 0.0001209
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

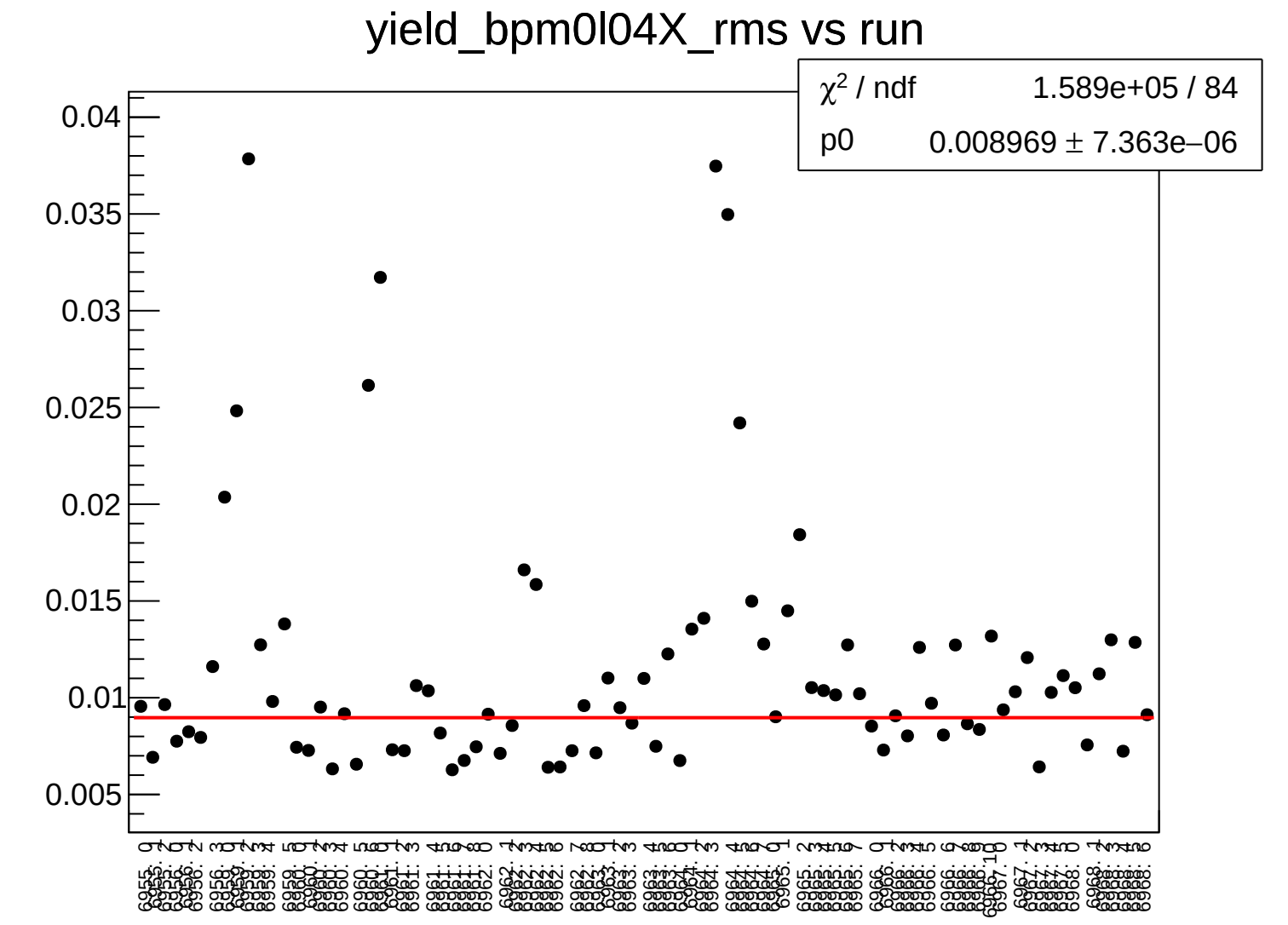

yield_bpm0l03Y_mean vs run
χ² / ndf 3.019e+05 / 84
p0 −0.8168 ± 0.0001732
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 85
Mean 87.25
Std Dev 0
250
200
150
100
50
0
−50
−100

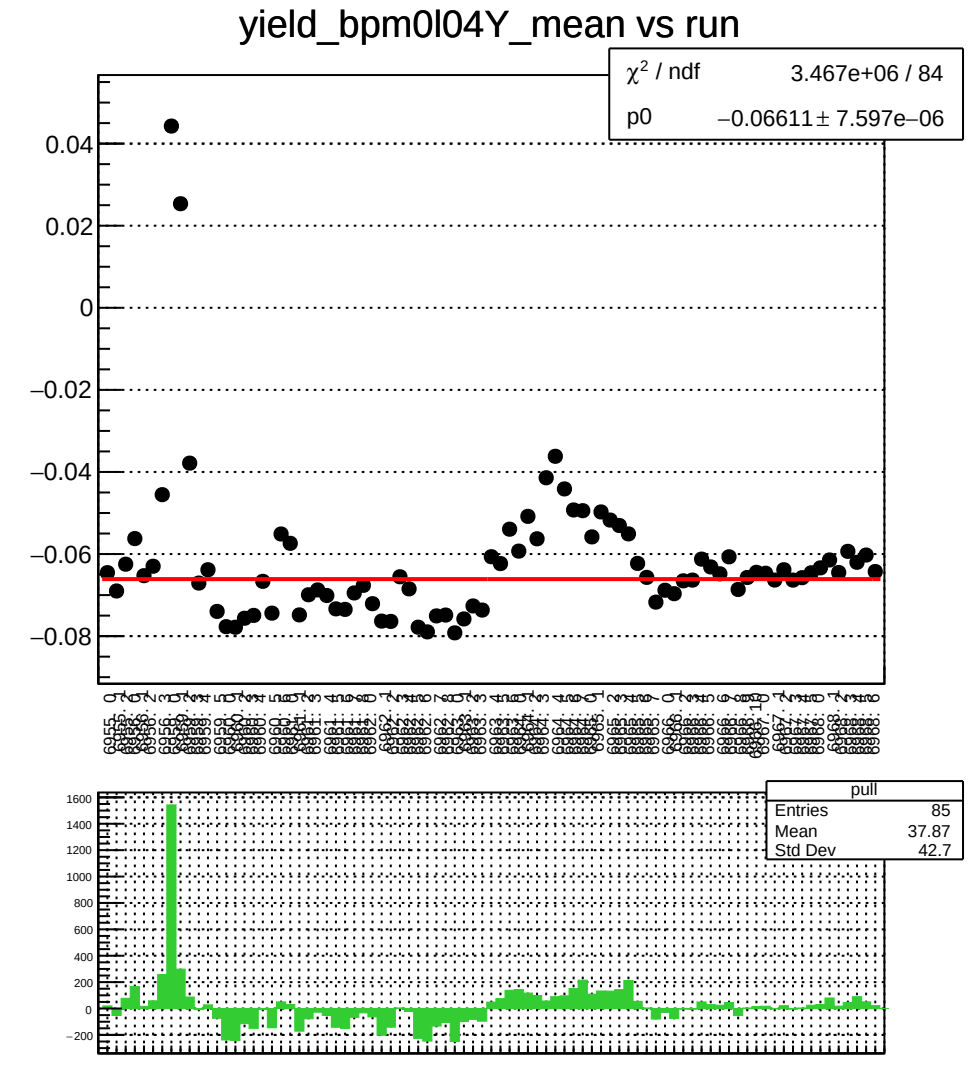

pull1D
Entries 85
Mean 2.552
Std Dev 4.231
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

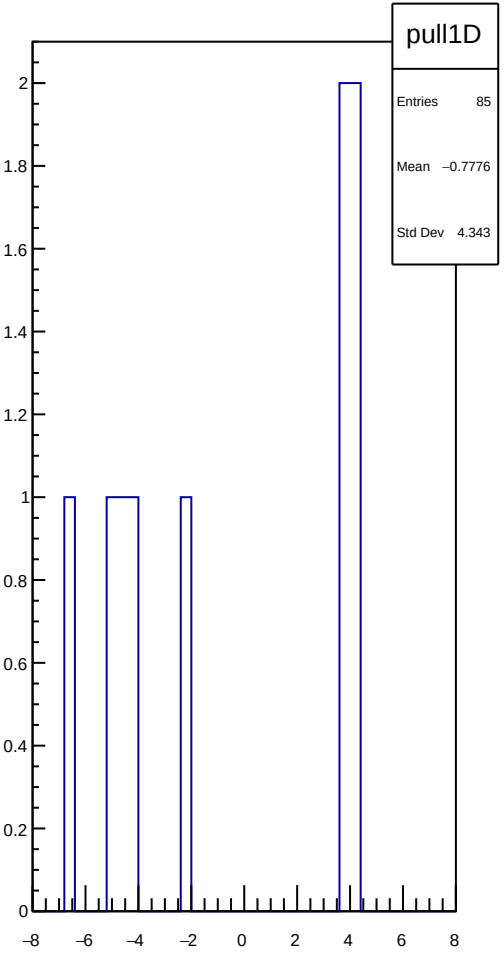

yield_bpm0l03Y_rms vs run
χ² / ndf 2.446e+05 / 84
p0 0.1448 ± 0.0001225
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

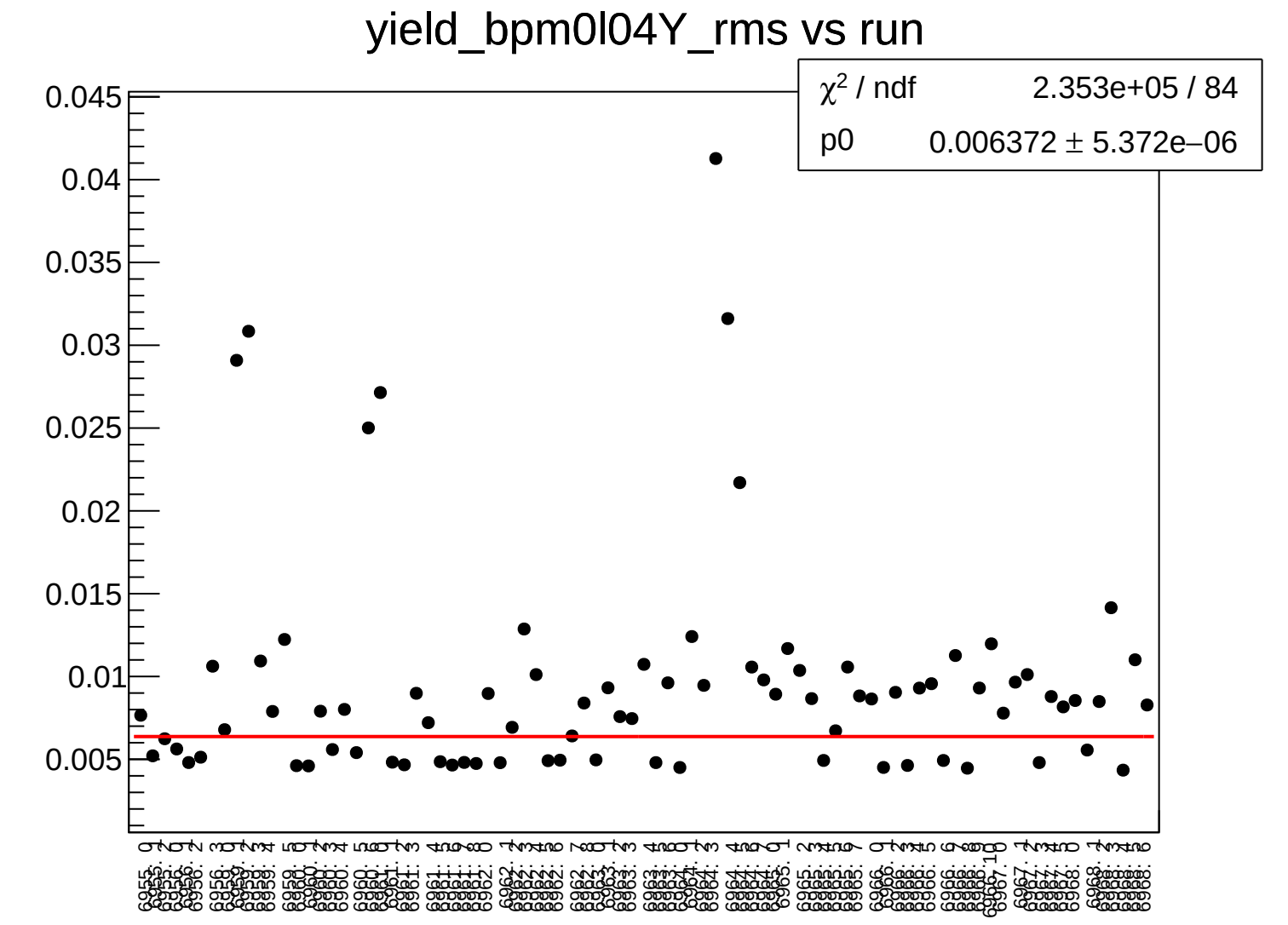

yield_bpm0l04X_mean vs run
χ² / ndf 2.519e+07 / 84
p0 −2.793 ± 1.041e−05
−2.65
−2.7
−2.75
−2.8
−2.85
−2.9
pull
Entries 85
Mean 388.8
Std Dev 0
2000
1500
1000
500
0
−500
−1000

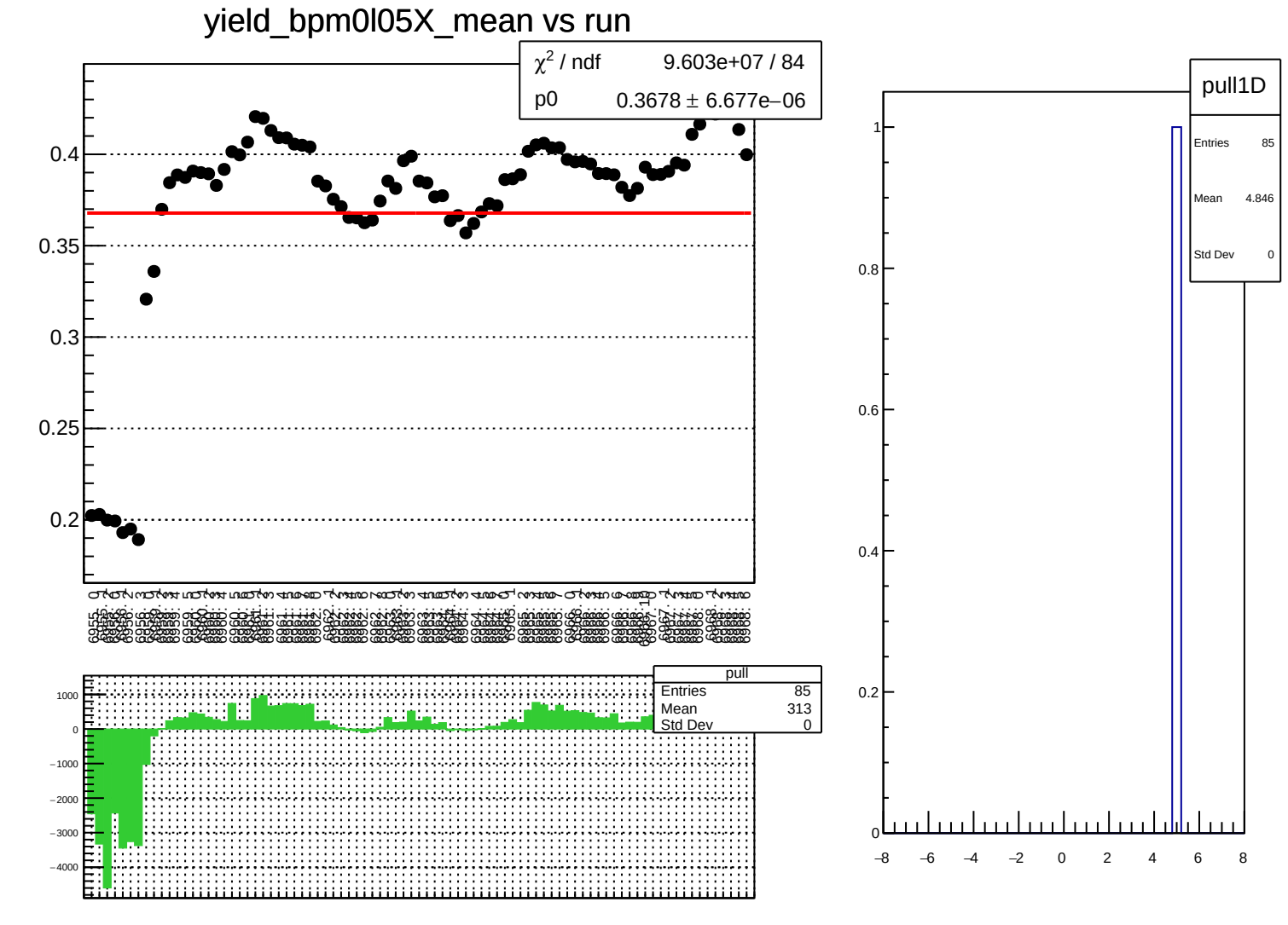

pull1D
Entries 85
Mean 0.3602
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

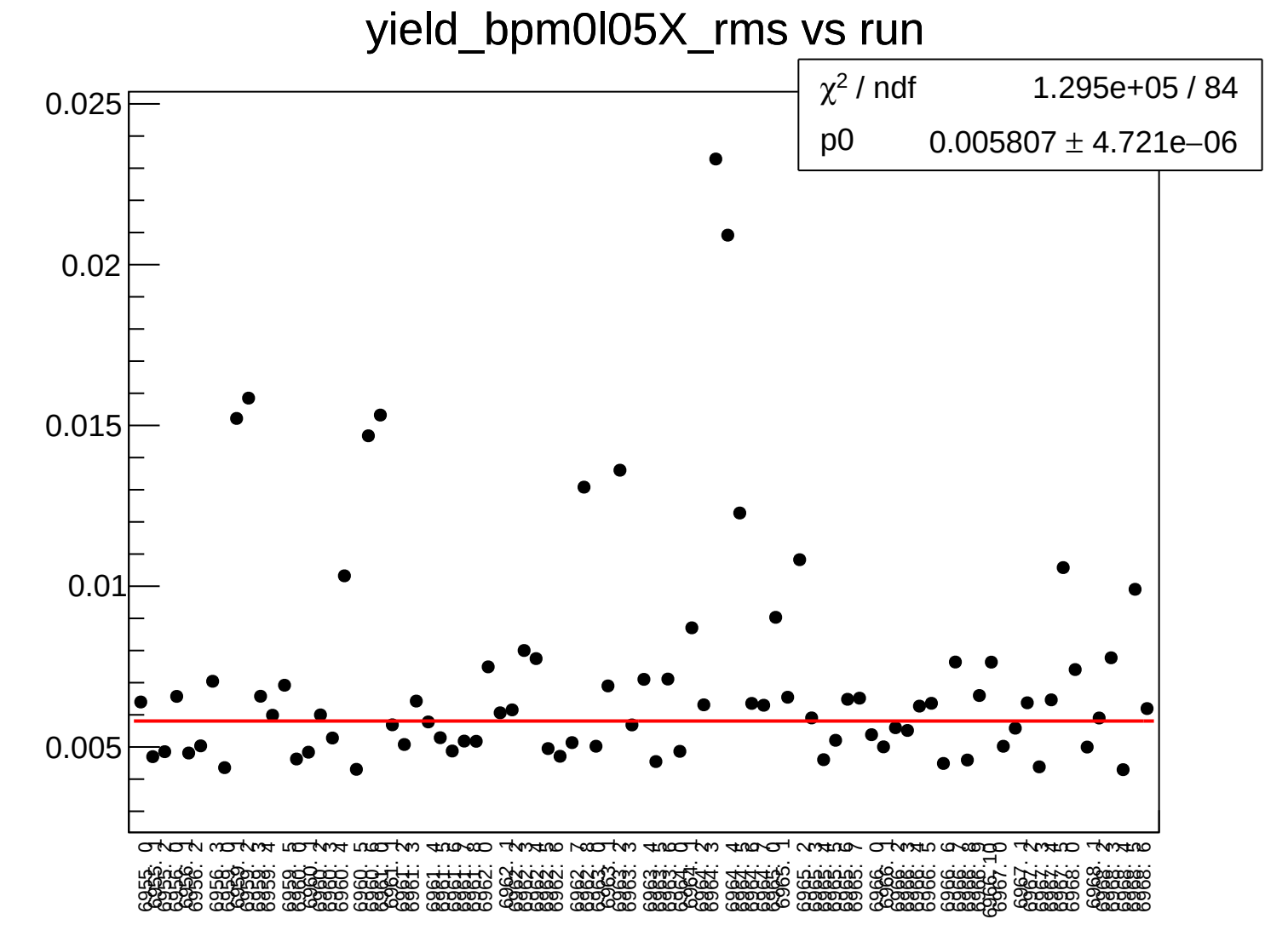

yield_bpm0l04X_rms vs run
χ² / ndf 1.589e+05 / 84
p0 0.008969 ± 7.363e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

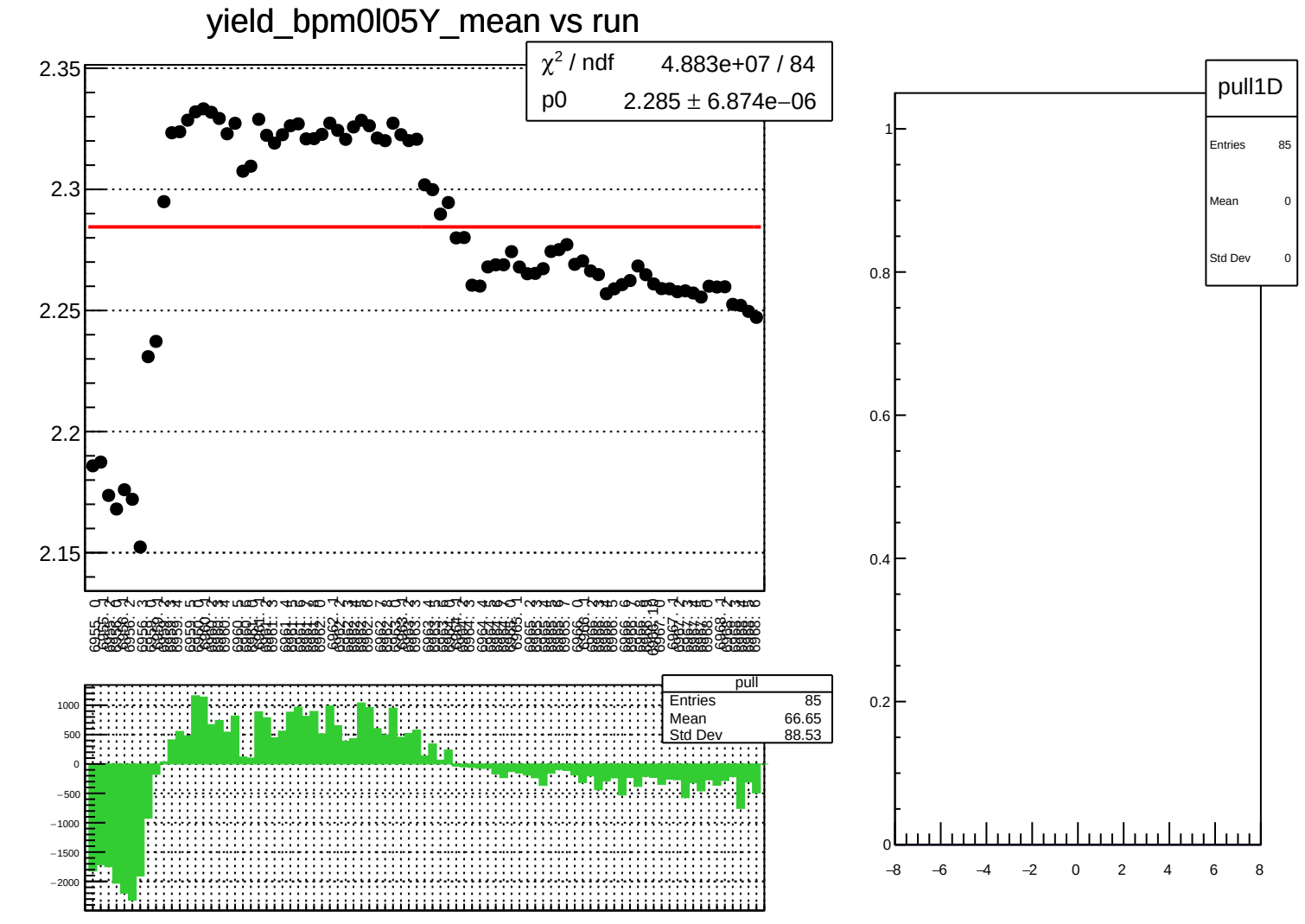

yield_bpm0l04Y_mean vs run
χ² / ndf 3.467e+06 / 84
p0 −0.06611 ± 7.597e−06
pull
Entries 85
Mean 37.87
Std Dev 42.7

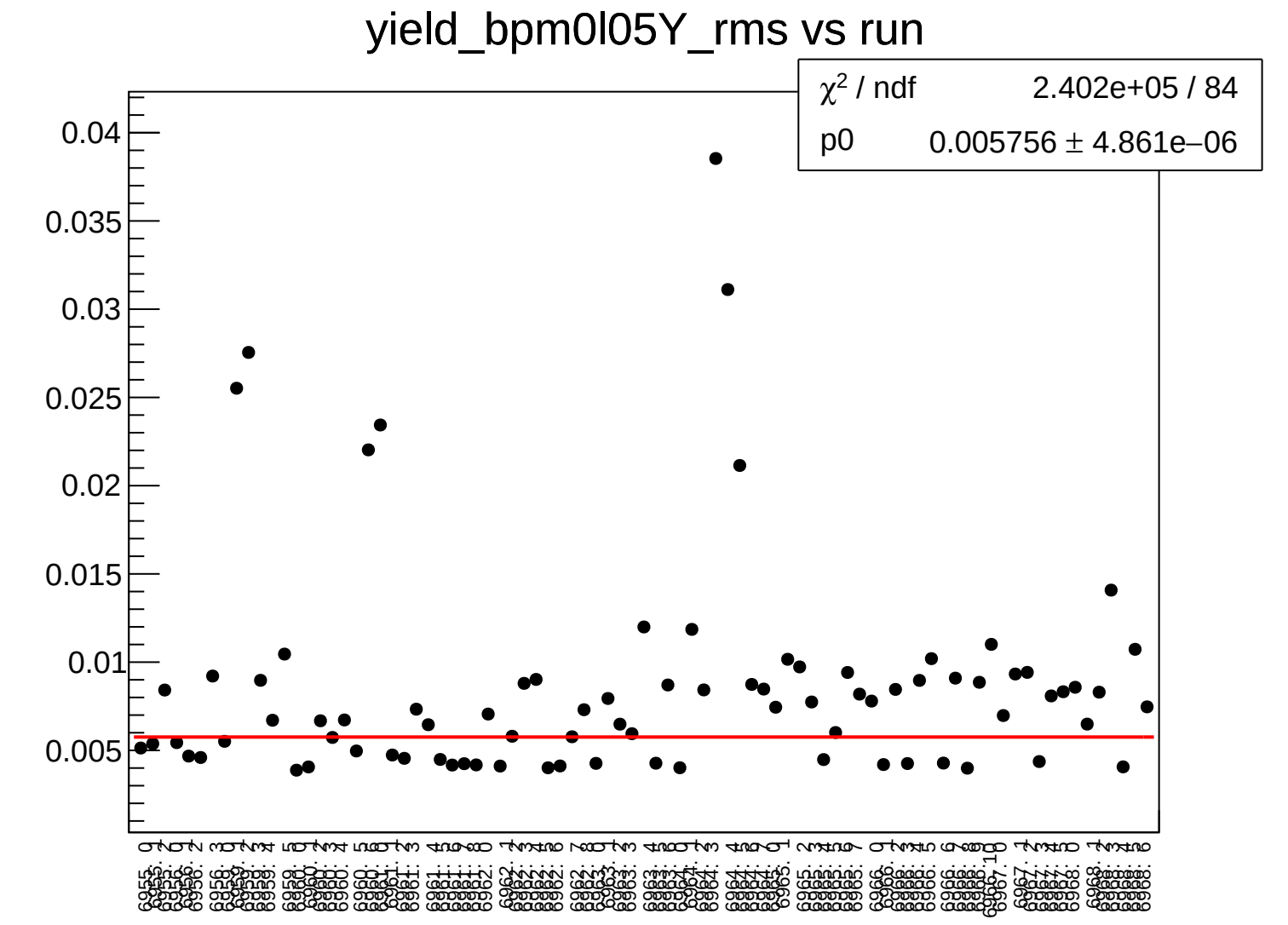

pull1D
Entries 85
Mean −0.7776
Std Dev 4.343

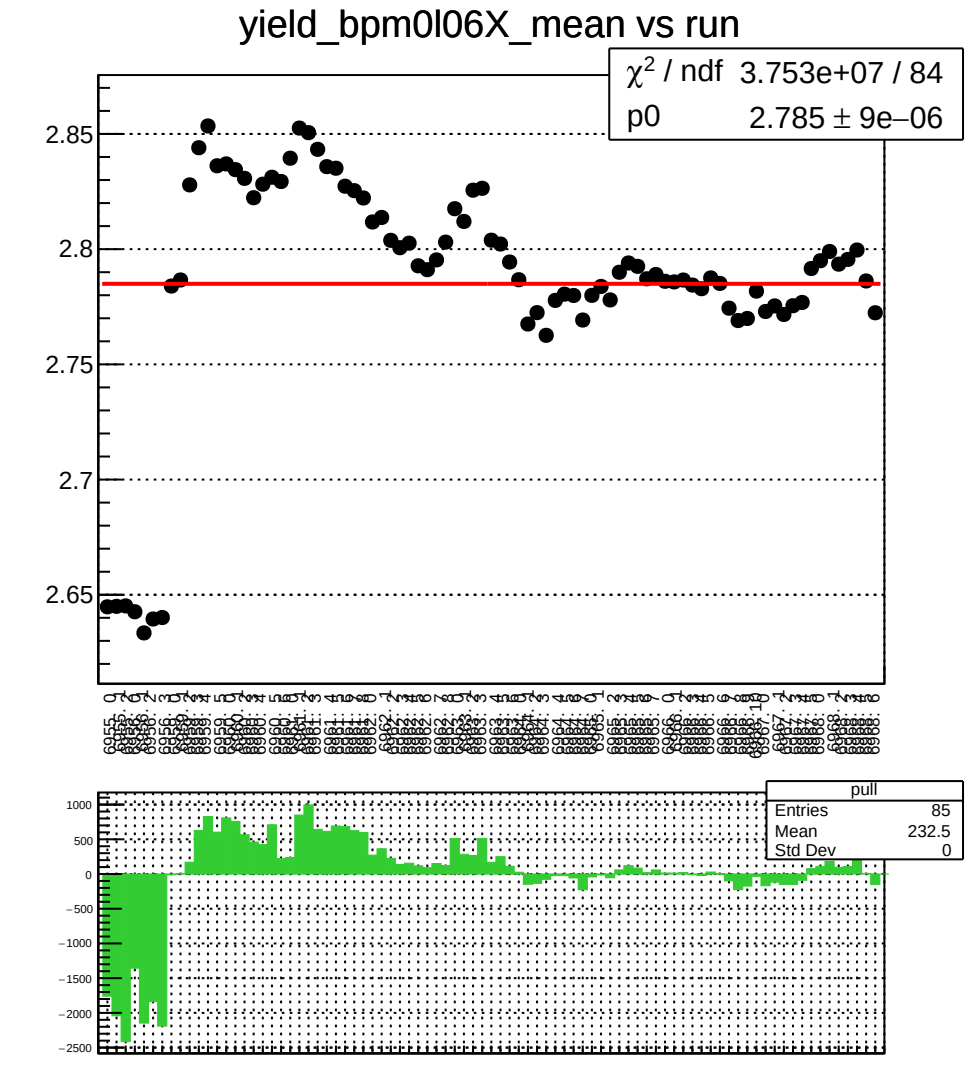

yield_bpm0l04Y_rms vs run
$\chi^2$ / ndf 2.353e+05 / 84
p0 0.006372 ± 5.372e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

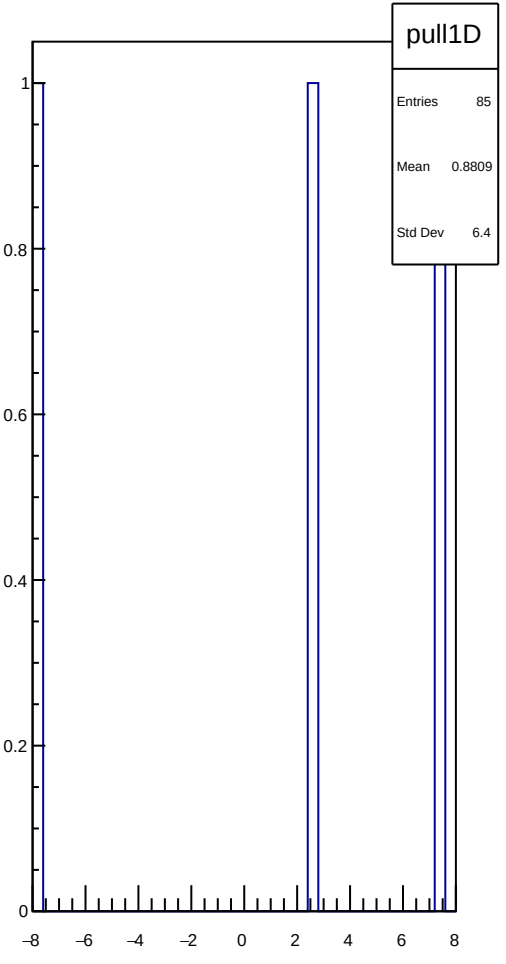

yield_bpm0l05X_mean vs run
χ² / ndf 9.603e+07 / 84
p0 0.3678 ± 6.677e−06
0.4
0.35
0.3
0.25
0.2
pull
Entries 85
Mean 313
Std Dev 0
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 85
Mean 4.846
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

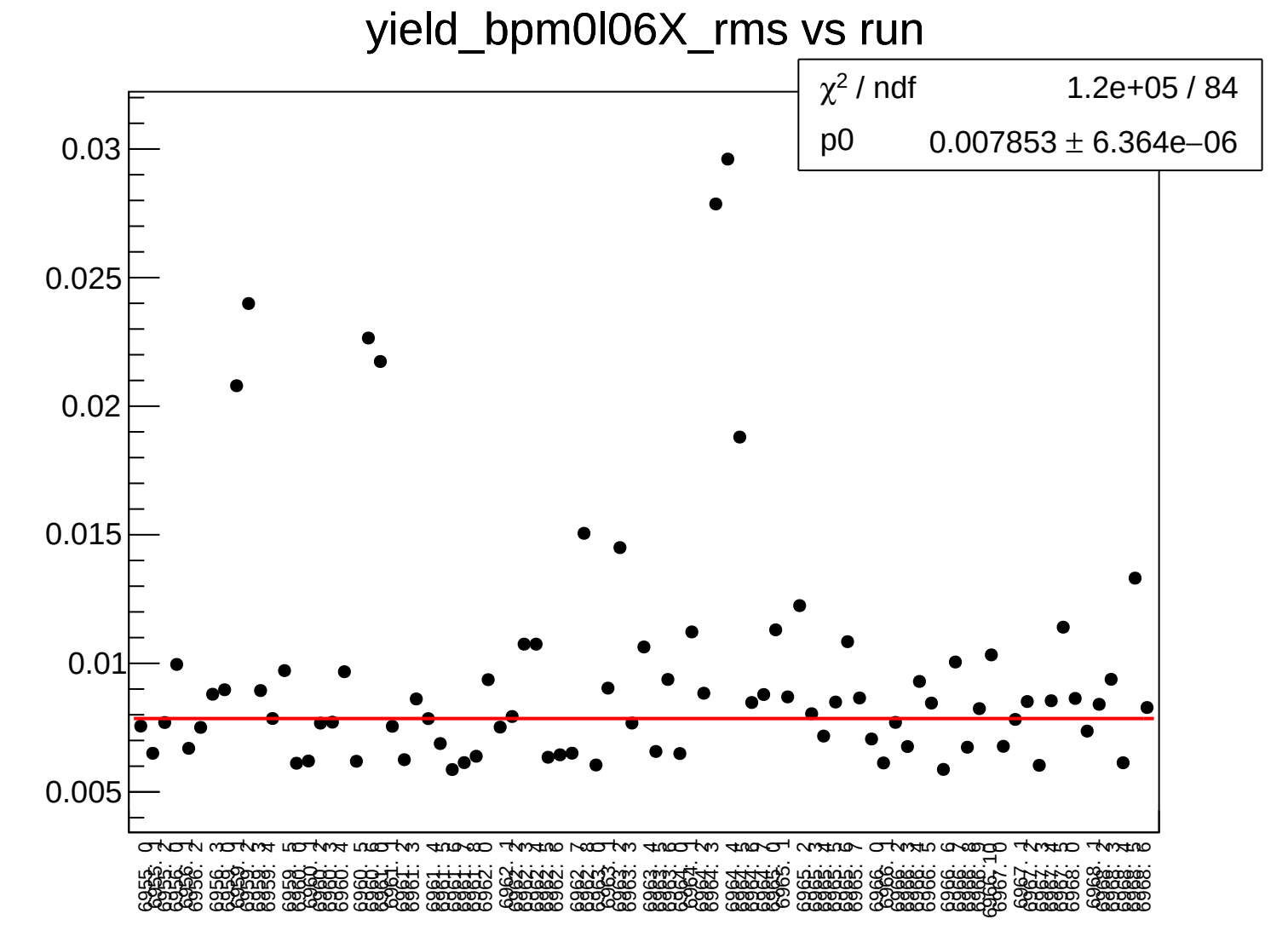

yield_bpm0l05X_rms vs run
χ² / ndf 1.295e+05 / 84
p0 0.005807 ± 4.721e−06
0.025
0.02
0.015
0.01
0.005

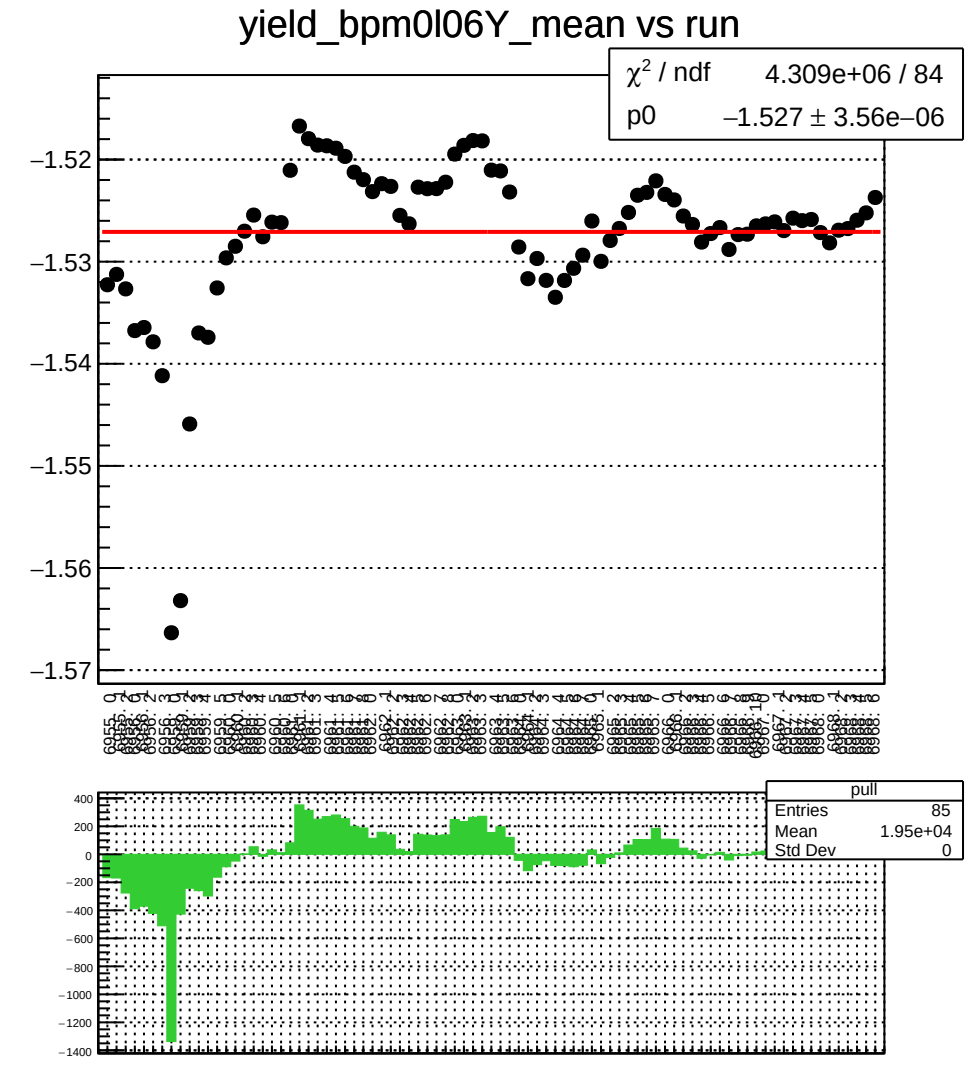

yield_bpm0l05Y_mean vs run
χ² / ndf 4.883e+07 / 84
p0 2.285 ± 6.874e−06
2.35
2.3
2.25
2.2
2.15
pull
Entries 85
Mean 66.65
Std Dev 88.53
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

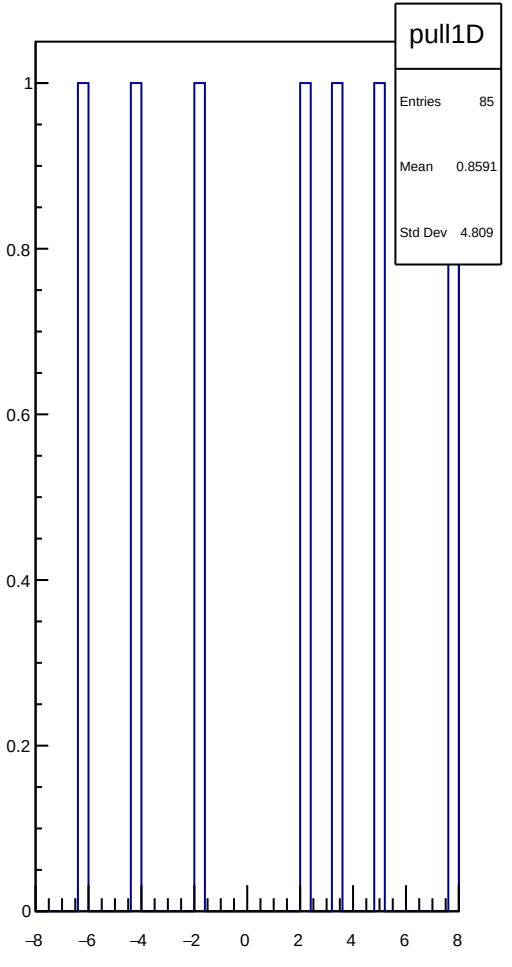

yield_bpm0l05Y_rms vs run
$\chi^2$ / ndf 2.402e+05 / 84
p0 0.005756 ± 4.861e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

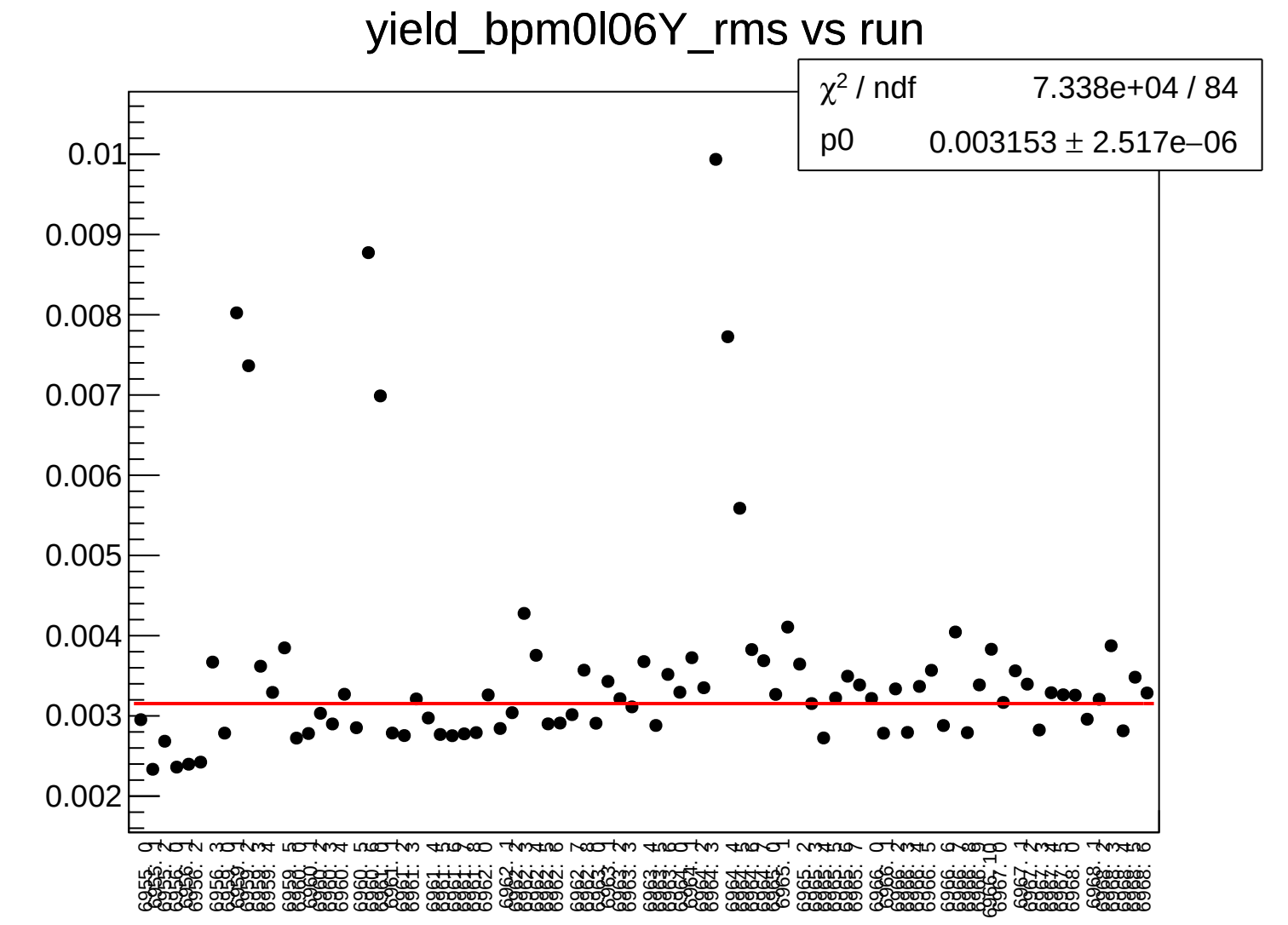

yield_bpm0l06X_mean vs run
χ² / ndf 3.753e+07 / 84
p0 2.785 ± 9e−06
2.85
2.8
2.75
2.7
2.65
pull
Entries 85
Mean 232.5
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

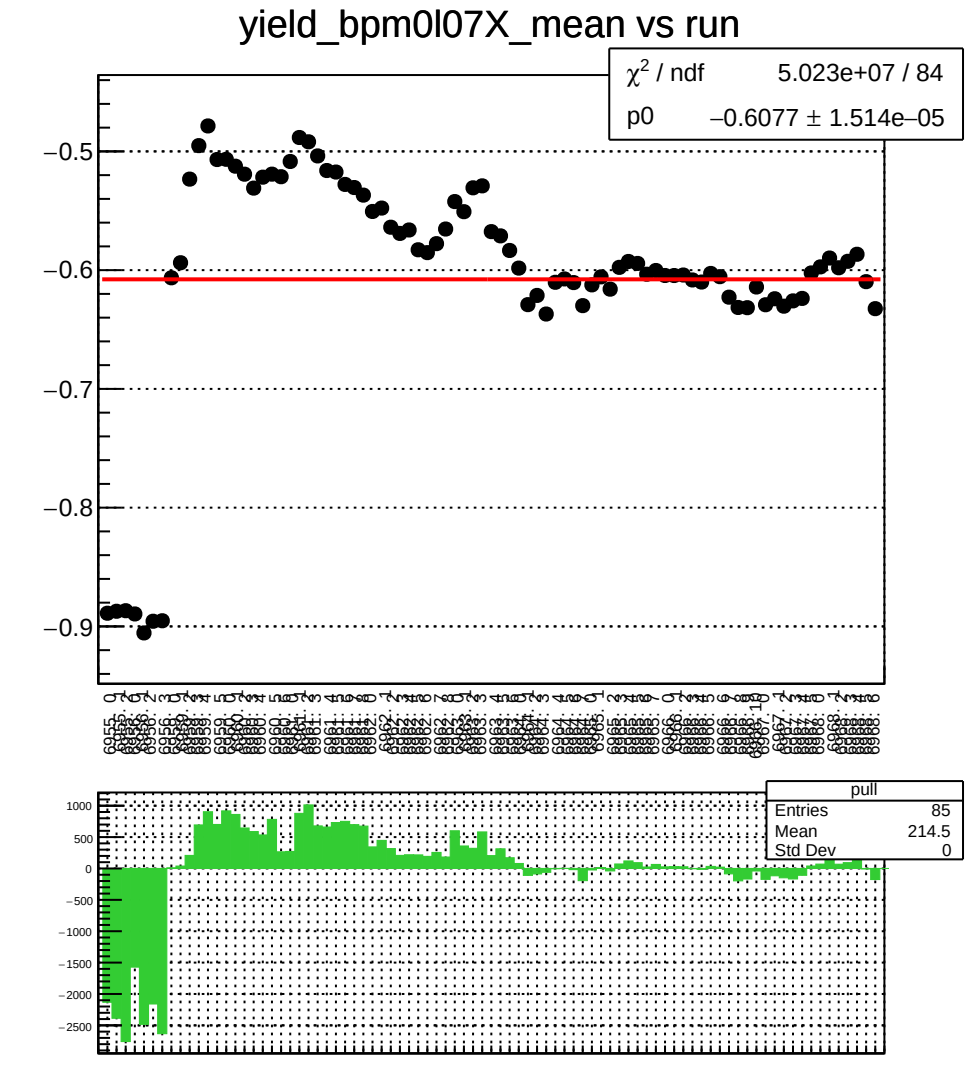

pull1D
Entries 85
Mean 0.8809
Std Dev 6.4
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

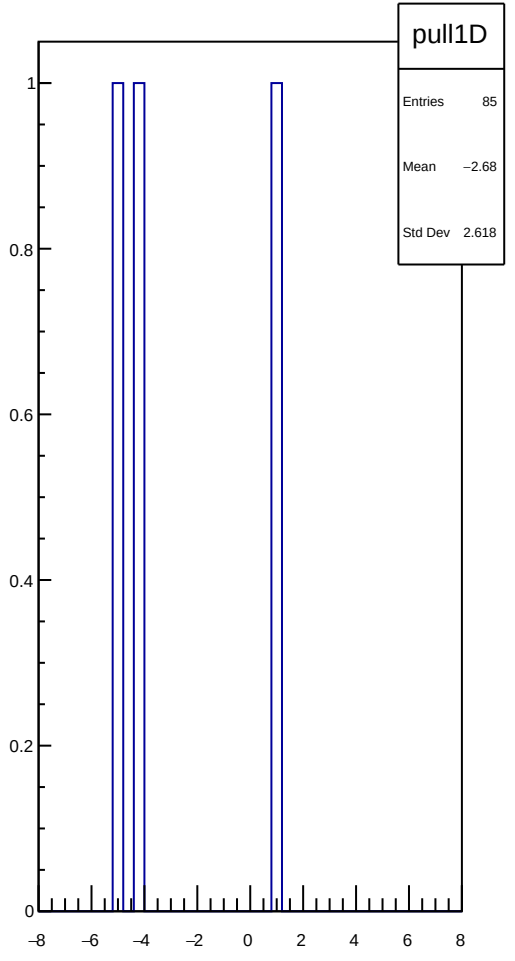

yield_bpm0l06X_rms vs run
χ² / ndf 1.2e+05 / 84
p0 0.007853 ± 6.364e−06
0.03
0.025
0.02
0.015
0.01
0.005

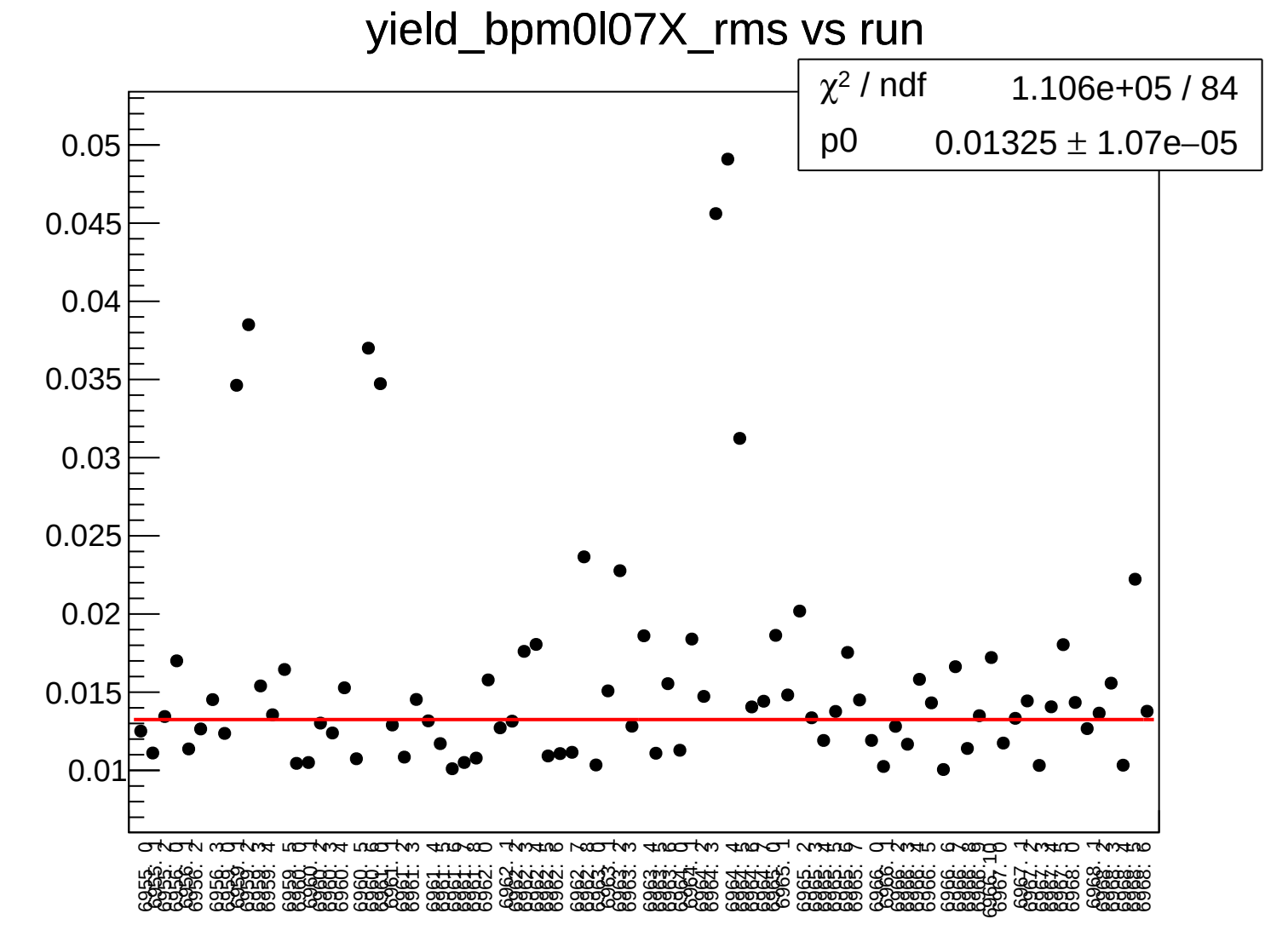

yield_bpm0l06Y_mean vs run
χ² / ndf 4.309e+06 / 84
p0 –1.527 ± 3.56e–06
–1.52
–1.53
–1.54
–1.55
–1.56
–1.57
pull
Entries 85
Mean 1.95e+04
Std Dev 0
400
200
0
–200
–400
–600
–800
–1000
–1200
–1400

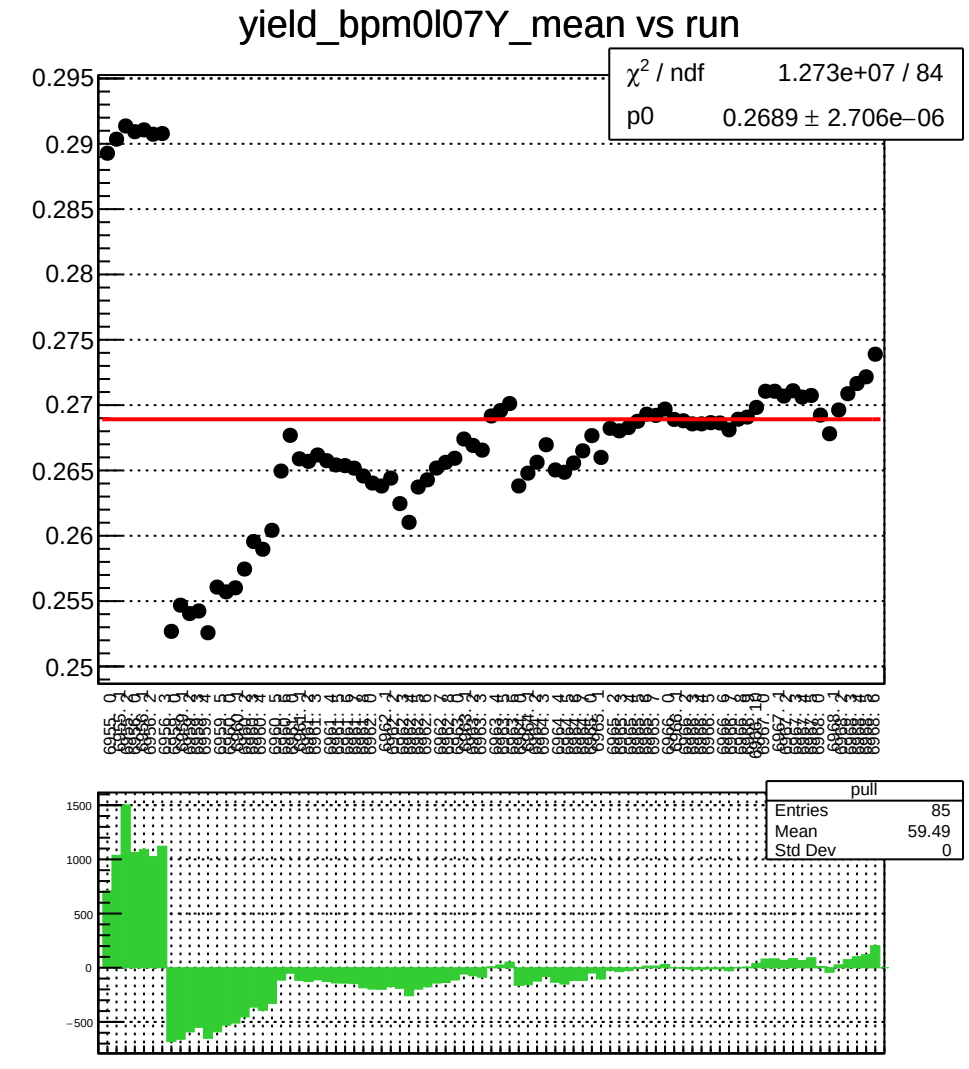

pull1D
Entries 85
Mean 0.8591
Std Dev 4.809
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

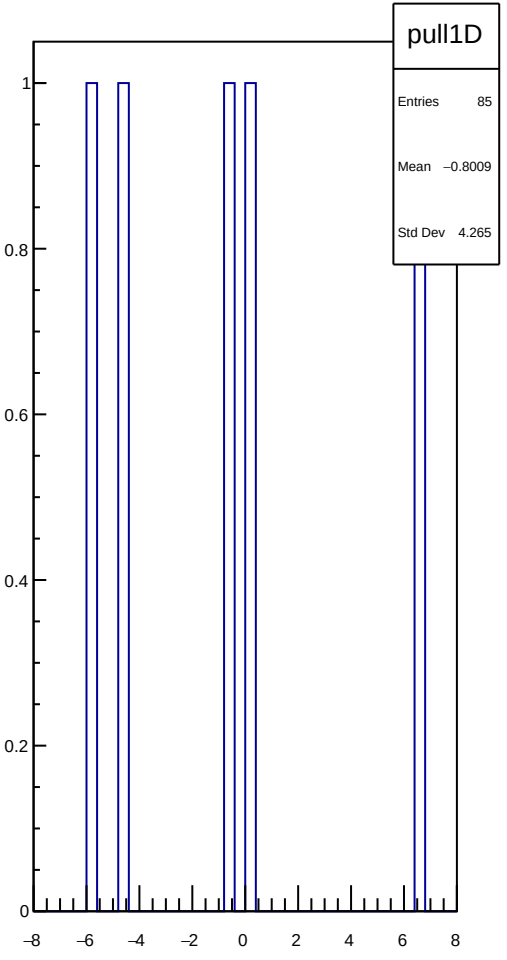

yield_bpm0l06Y_rms vs run
χ² / ndf 7.338e+04 / 84
p0 0.003153 ± 2.517e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

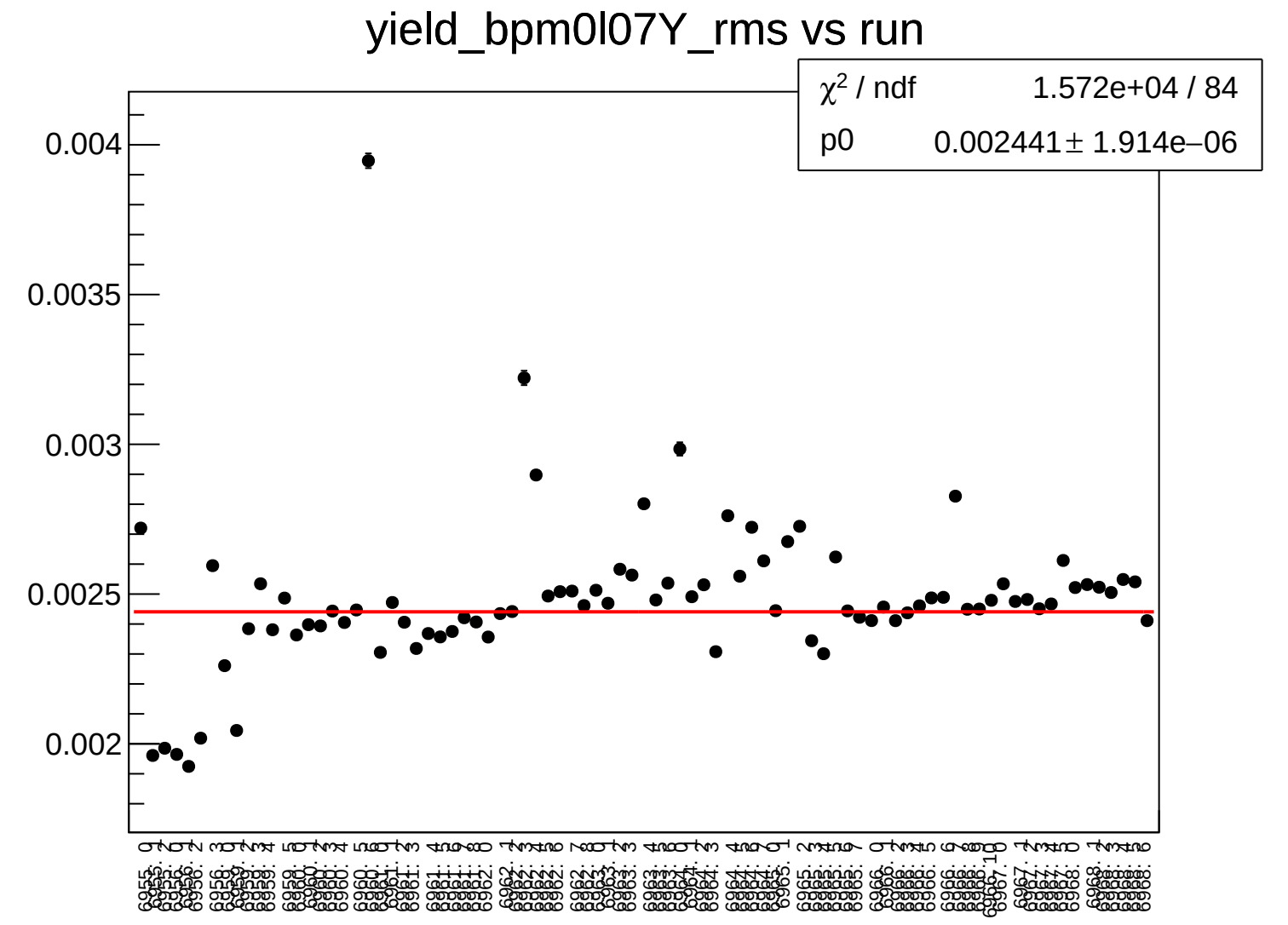

yield_bpm0l07X_mean vs run
χ² / ndf 5.023e+07 / 84
p0 −0.6077 ± 1.514e−05
pull
Entries 85
Mean 214.5
Std Dev 0

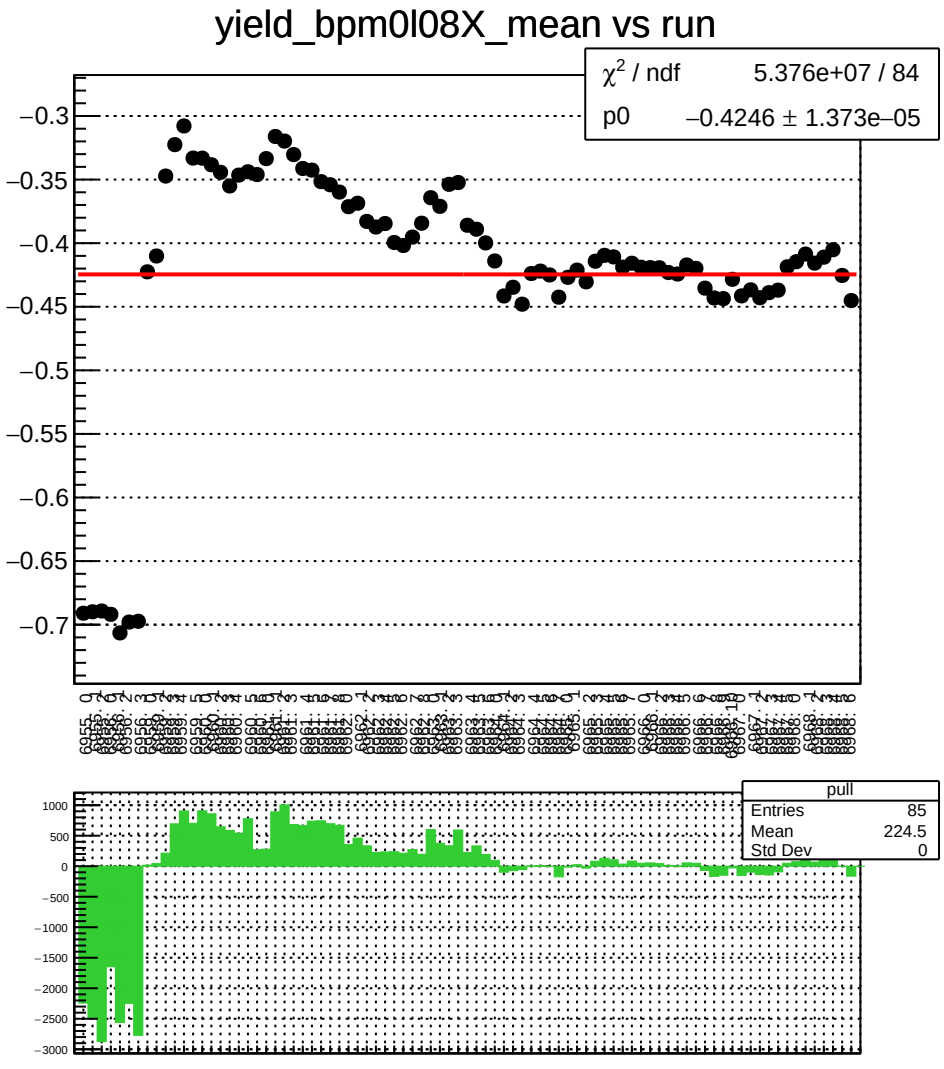

pull1D
Entries 85
Mean −2.68
Std Dev 2.618

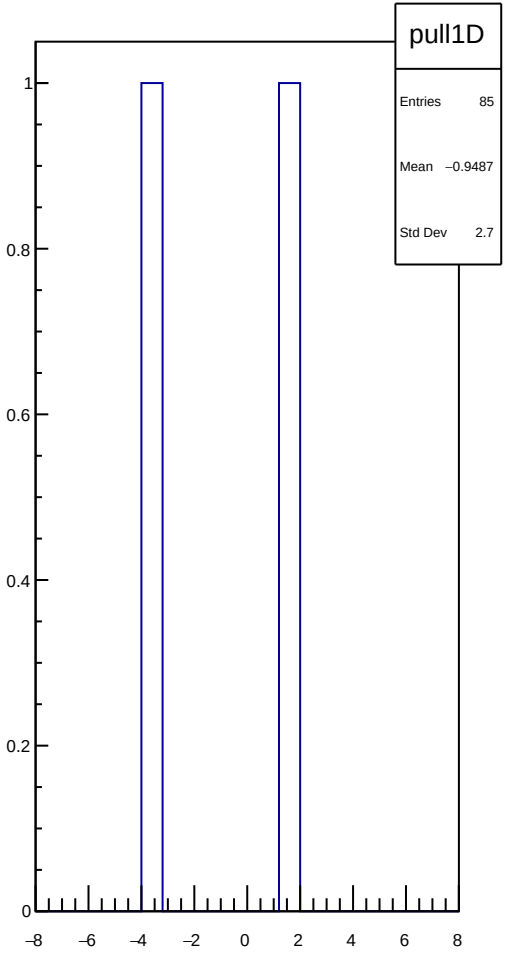

yield_bpm0l07X_rms vs run
χ² / ndf 1.106e+05 / 84
p0 0.01325 ± 1.07e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

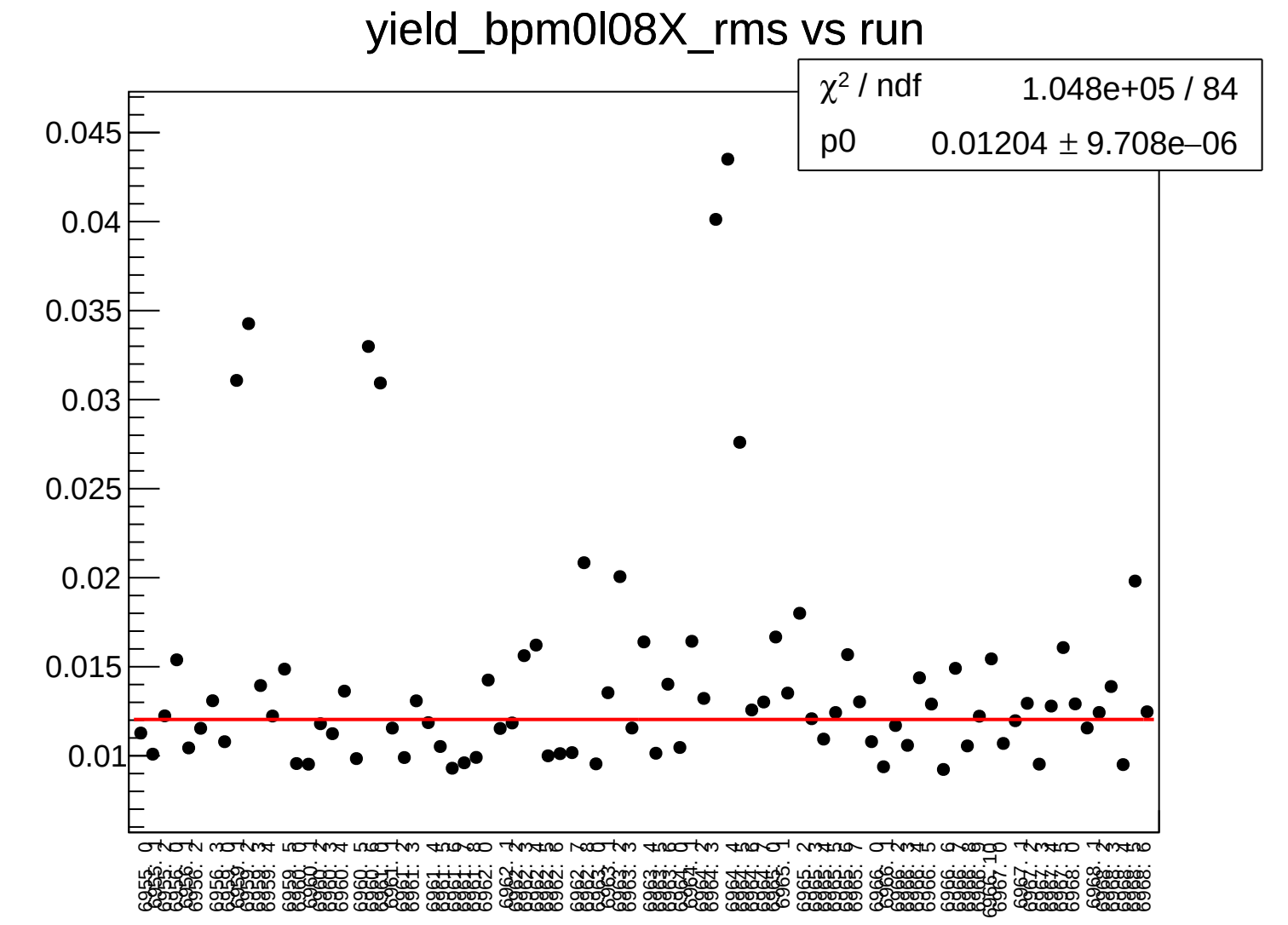

yield_bpm0l07Y_mean vs run
χ² / ndf 1.273e+07 / 84
p0 0.2689 ± 2.706e−06
pull
Entries 85
Mean 59.49
Std Dev 0

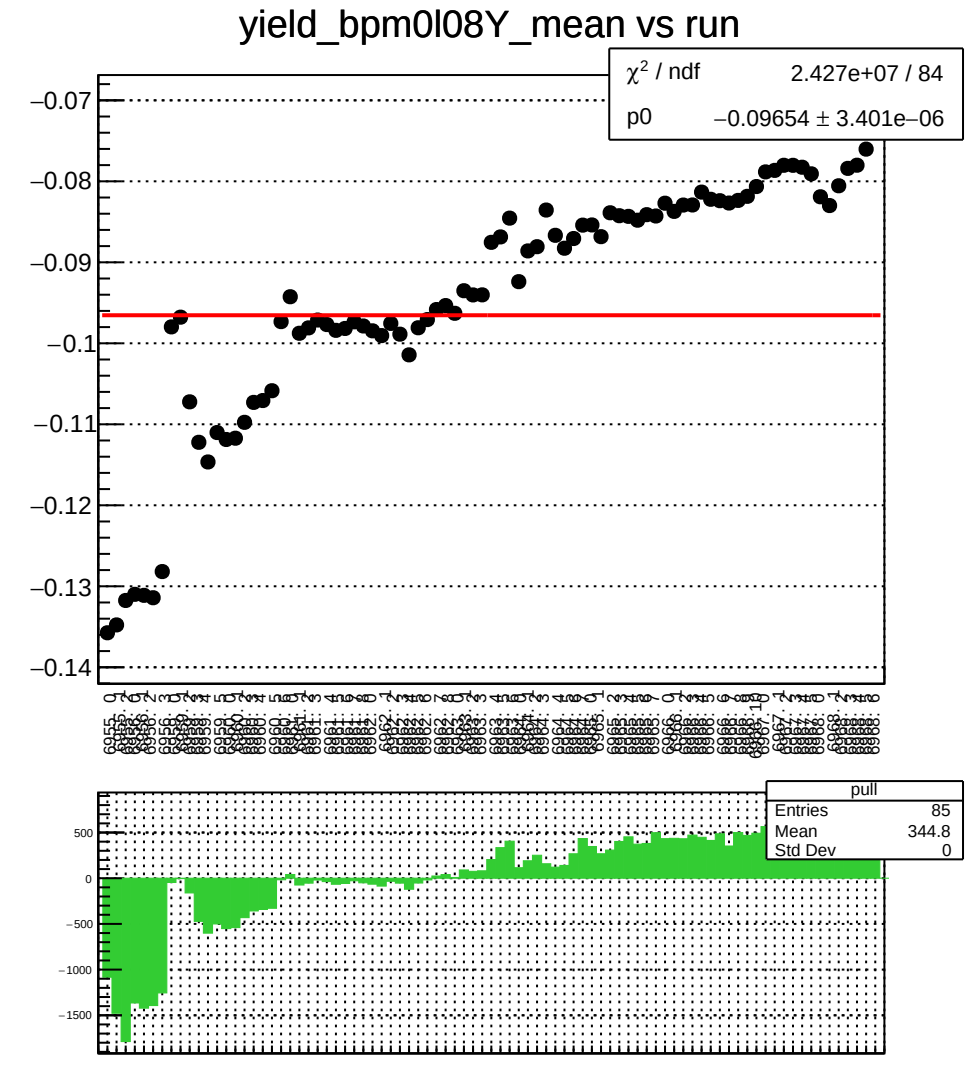

pull1D
Entries 85
Mean −0.8009
Std Dev 4.265

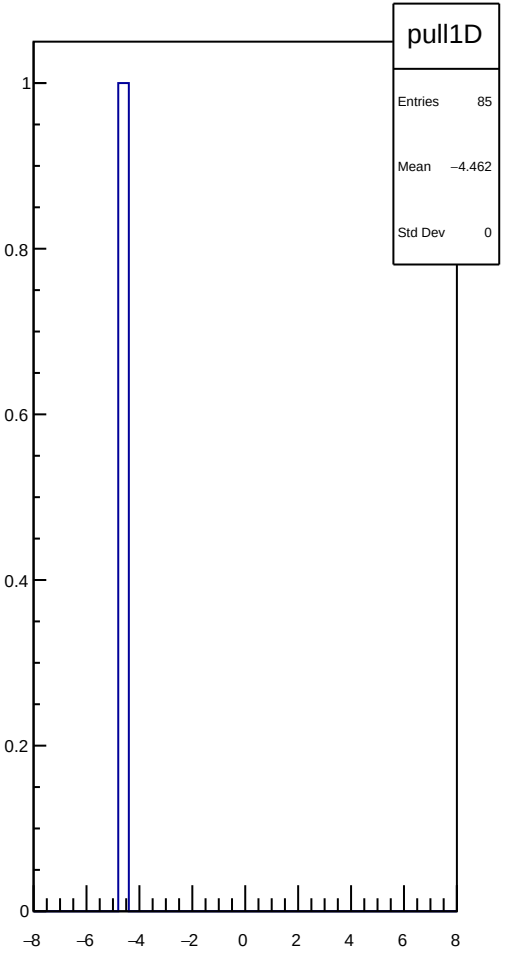

yield_bpm0l07Y_rms vs run
χ² / ndf 1.572e+04 / 84
p0 0.002441 ± 1.914e−06
0.004
0.0035
0.003
0.0025
0.002

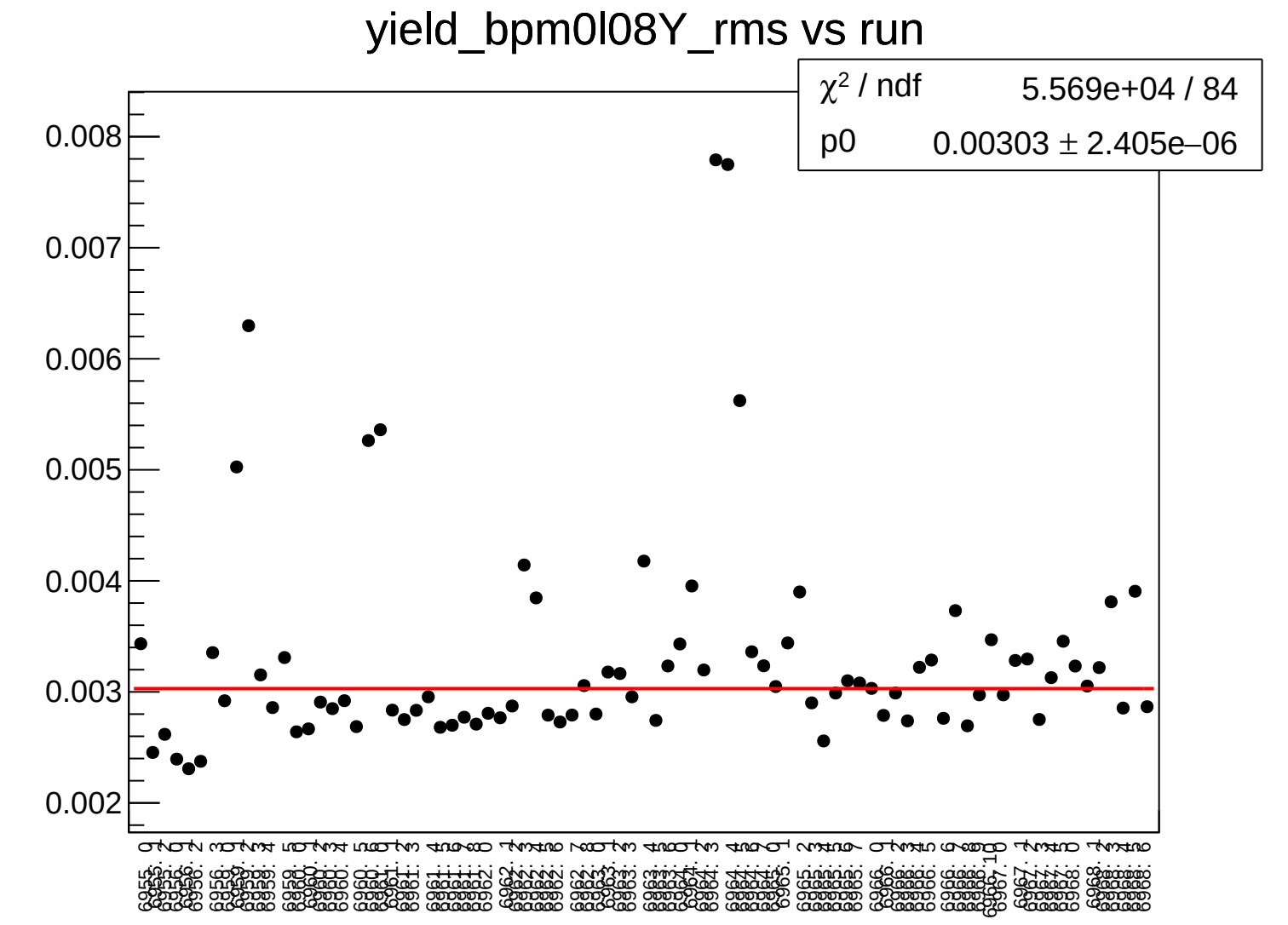

yield_bpm0l08X_mean vs run
χ² / ndf 5.376e+07 / 84
p0 −0.4246 ± 1.373e−05
pull
Entries 85
Mean 224.5
Std Dev 0

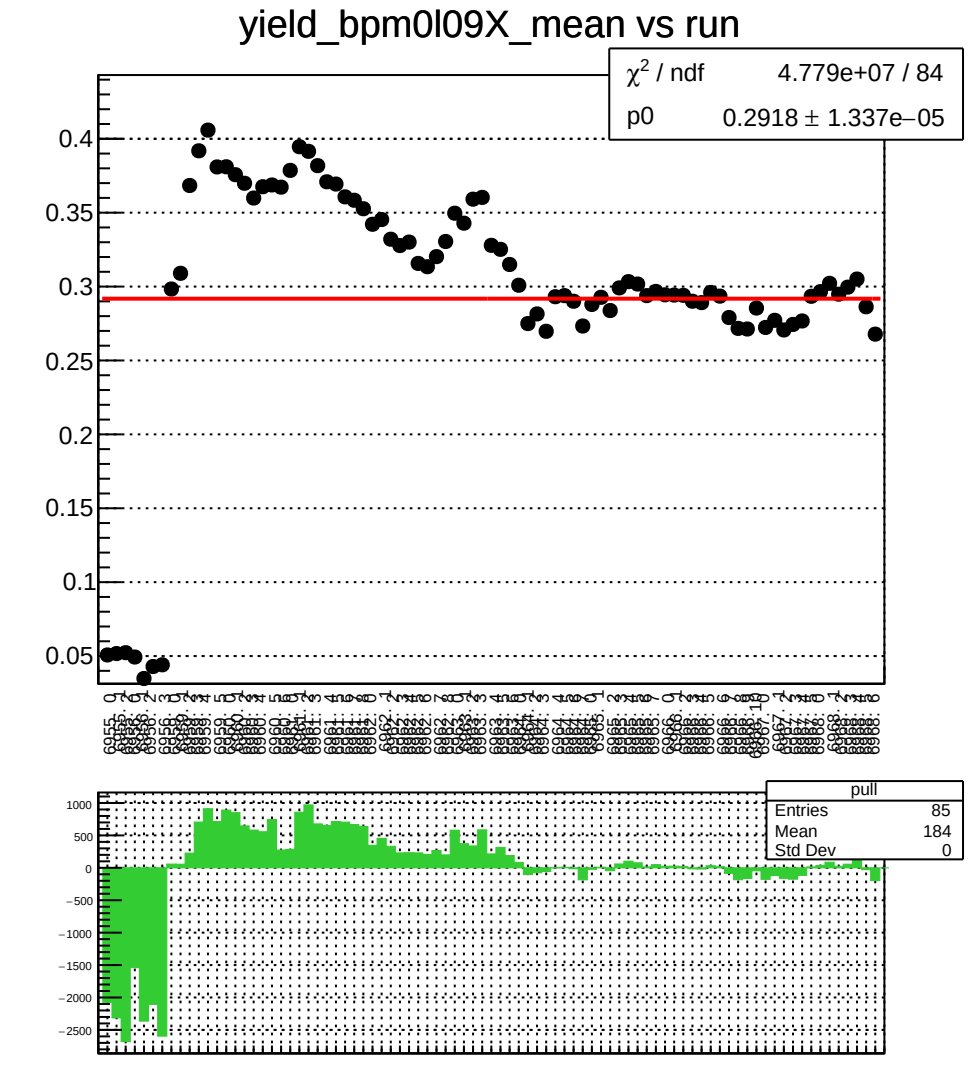

pull1D
Entries 85
Mean −0.9487
Std Dev 2.7

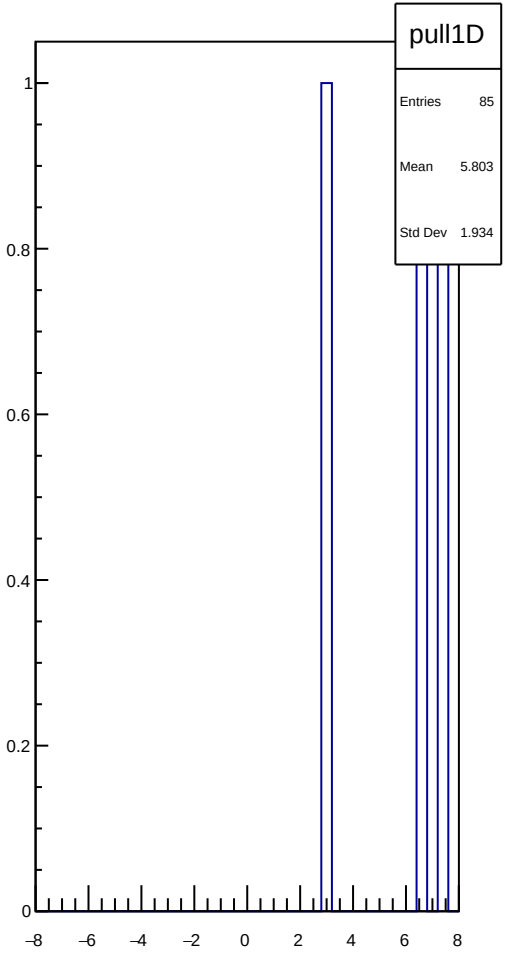

yield_bpm0l08X_rms vs run
χ² / ndf 1.048e+05 / 84
p0 0.01204 ± 9.708e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

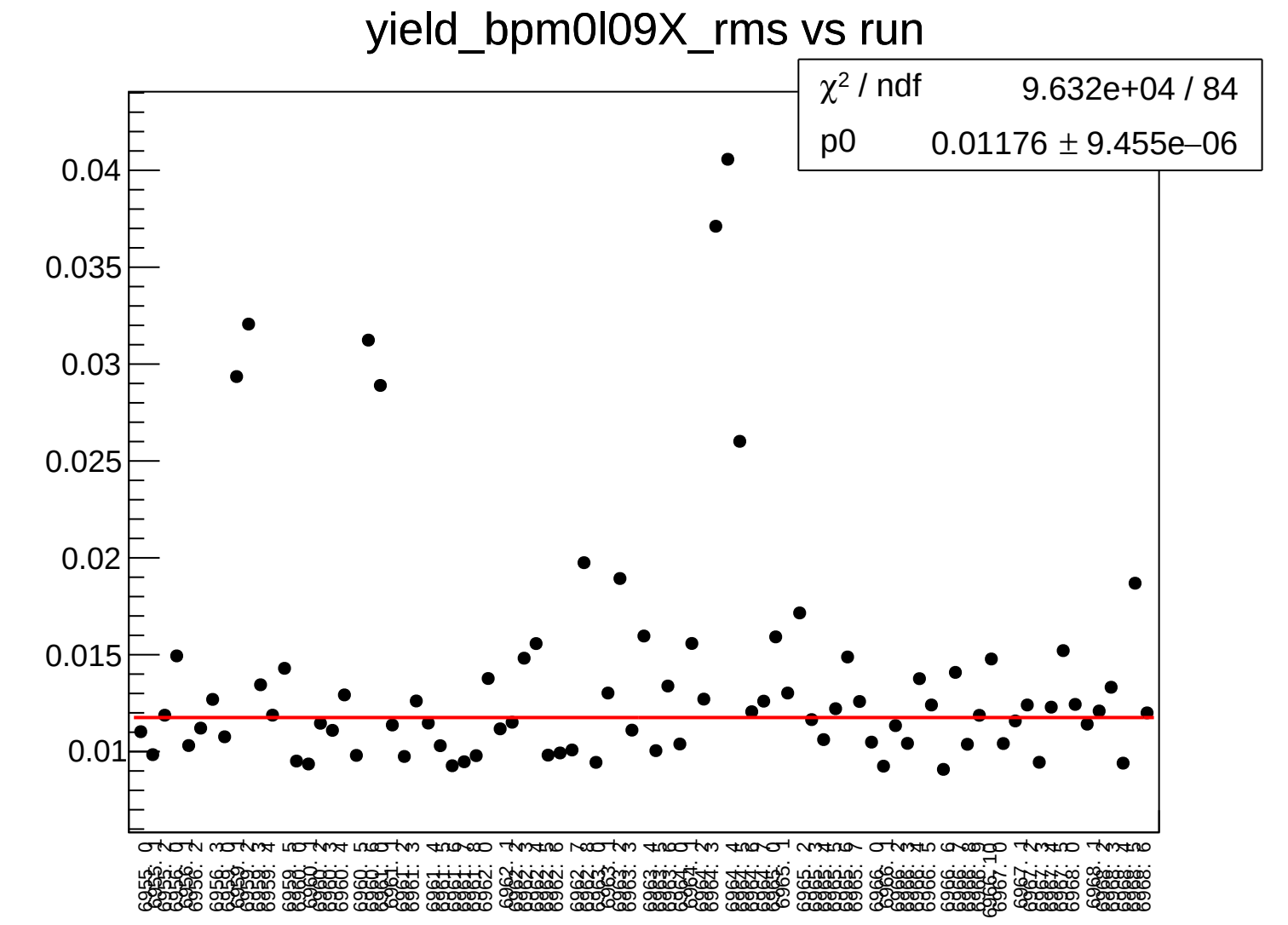

yield_bpm0l08Y_mean vs run
χ² / ndf 2.427e+07 / 84
p0 −0.09654 ± 3.401e−06
−0.07
−0.08
−0.09
−0.1
−0.11
−0.12
−0.13
−0.14
pull
Entries 85
Mean 344.8
Std Dev 0
500
0
−500
−1000
−1500

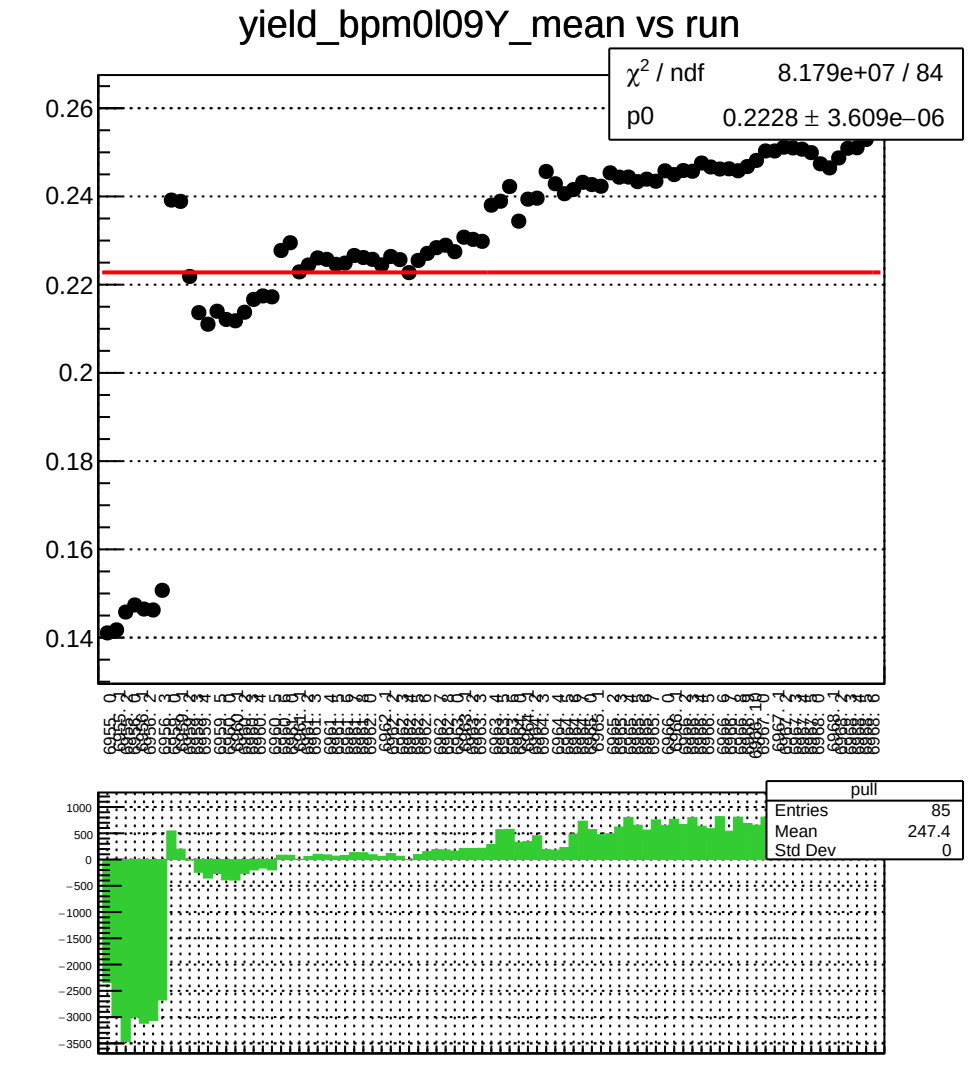

pull1D
Entries 85
Mean −4.462
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

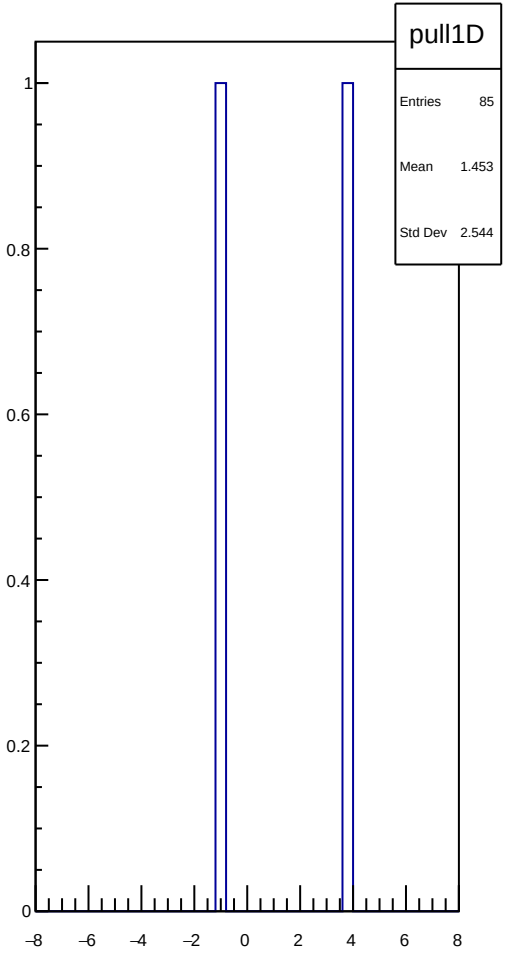

yield_bpm0l08Y_rms vs run
χ² / ndf 5.569e+04 / 84
p0 0.00303 ± 2.405e–06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

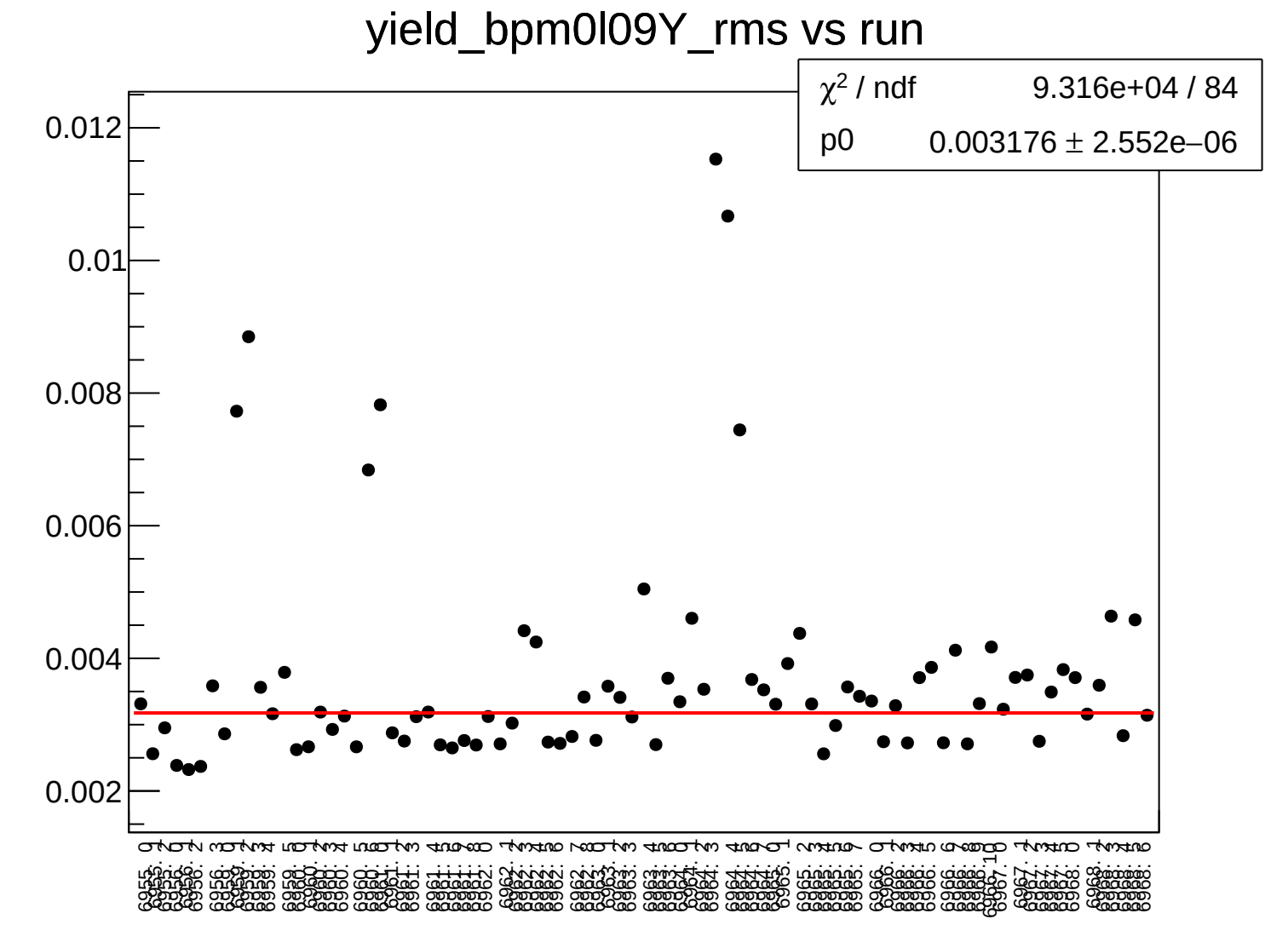

yield_bpm0l09X_mean vs run
χ² / ndf 4.779e+07 / 84
p0 0.2918 ± 1.337e−05
pull
Entries 85
Mean 184
Std Dev 0

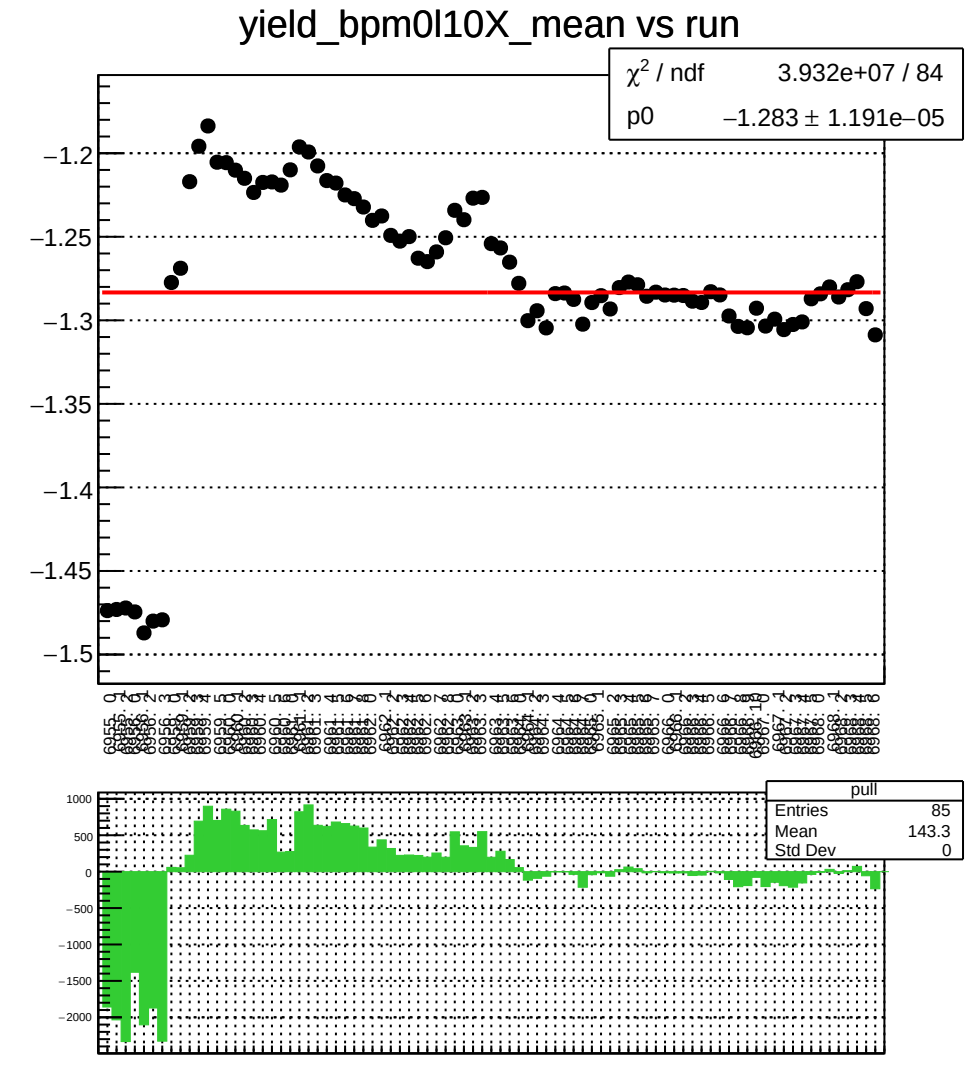

pull1D
Entries 85
Mean 5.803
Std Dev 1.934

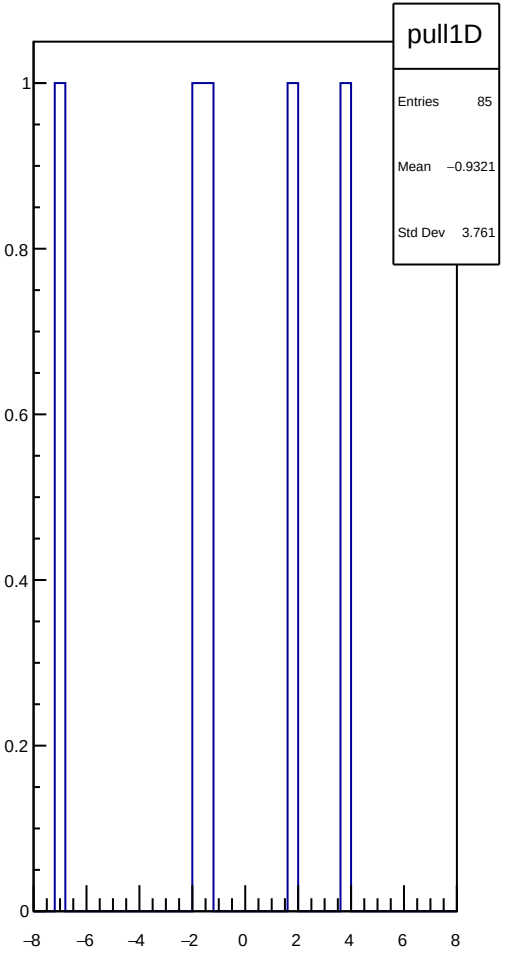

yield_bpm0l09X_rms vs run
χ² / ndf 9.632e+04 / 84
p0 0.01176 ± 9.455e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

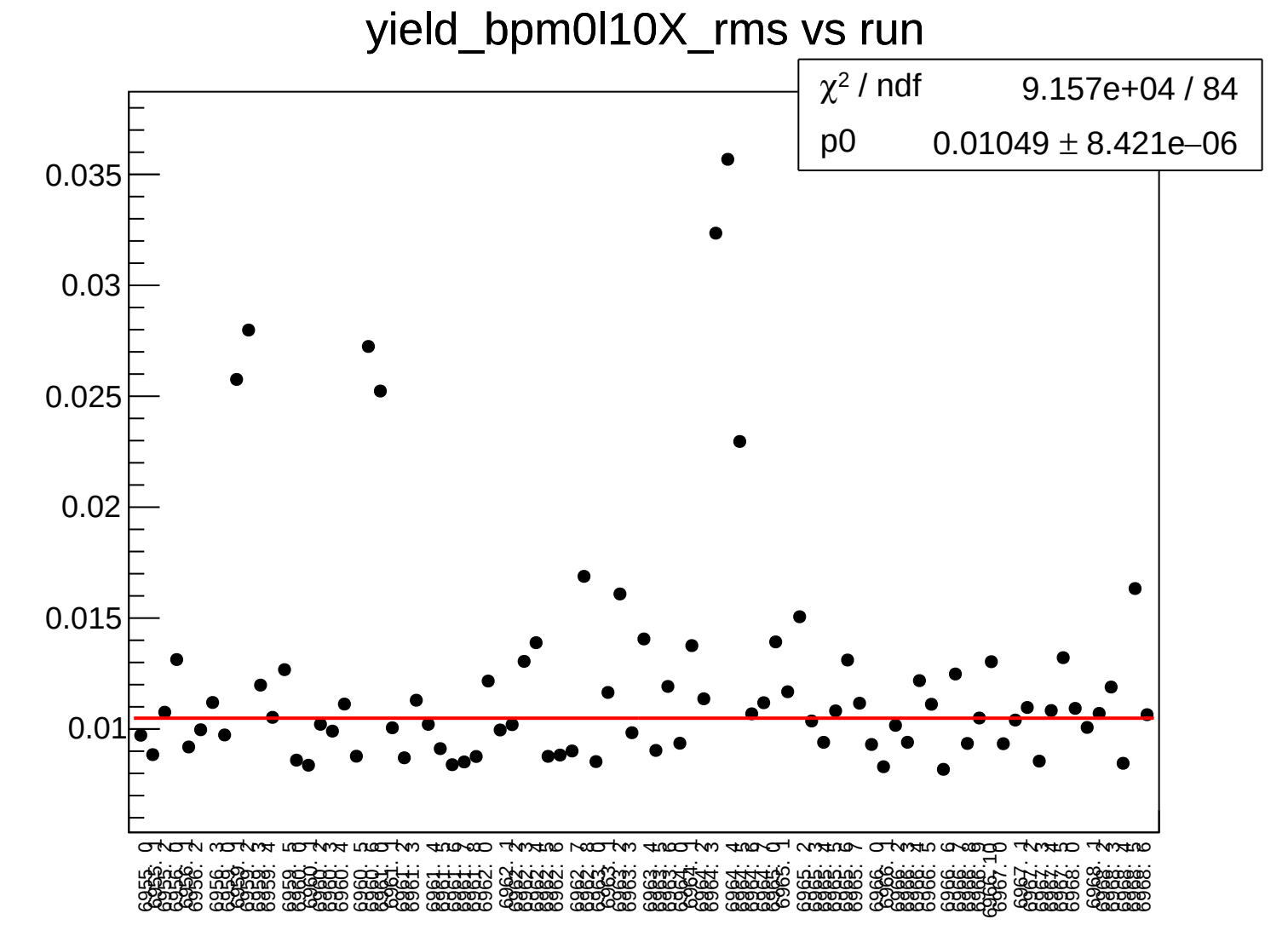

yield_bpm0l09Y_mean vs run
χ² / ndf 8.179e+07 / 84
p0 0.2228 ± 3.609e−06
0.26
0.24
0.22
0.2
0.18
0.16
0.14
pull
Entries 85
Mean 247.4
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

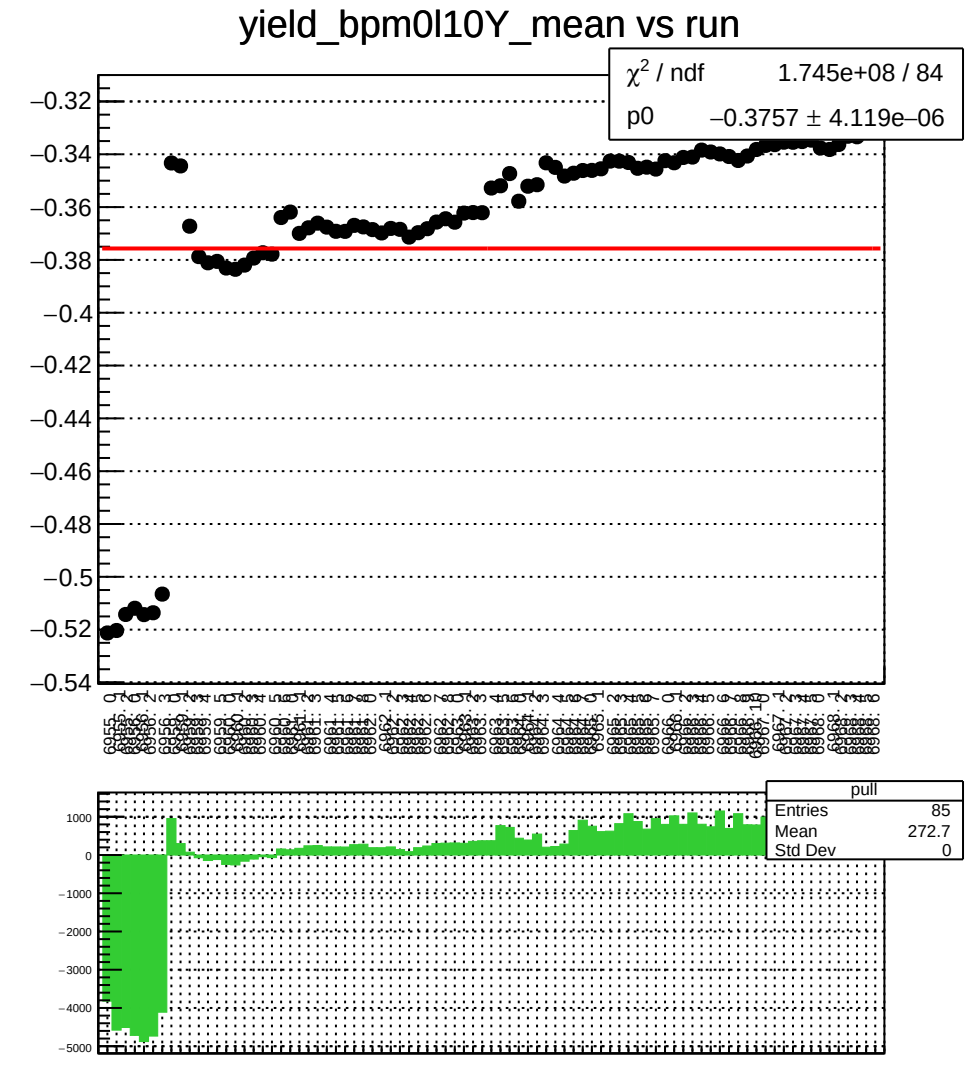

pull1D
Entries 85
Mean 1.453
Std Dev 2.544
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

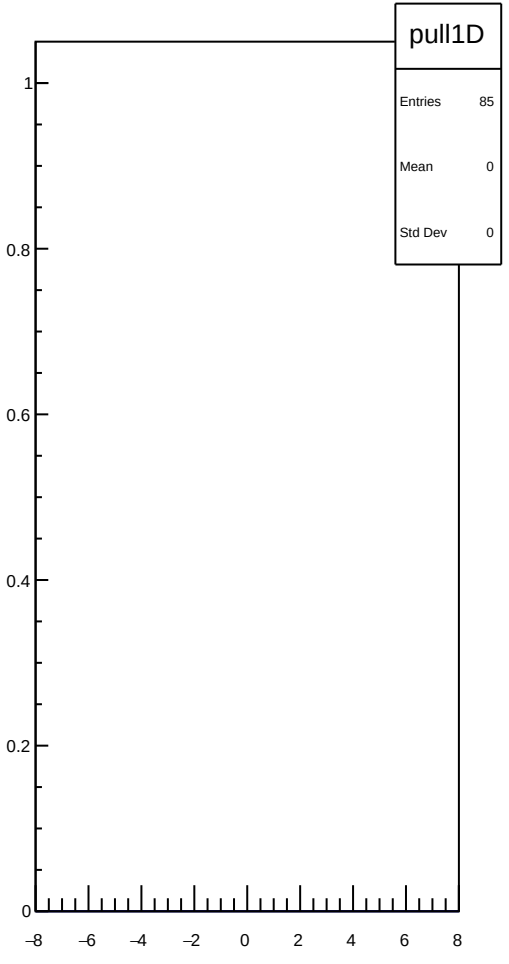

yield_bpm0l09Y_rms vs run
$\chi^2$ / ndf 9.316e+04 / 84
p0 0.003176 ± 2.552e−06
0.012
0.01
0.008
0.006
0.004
0.002

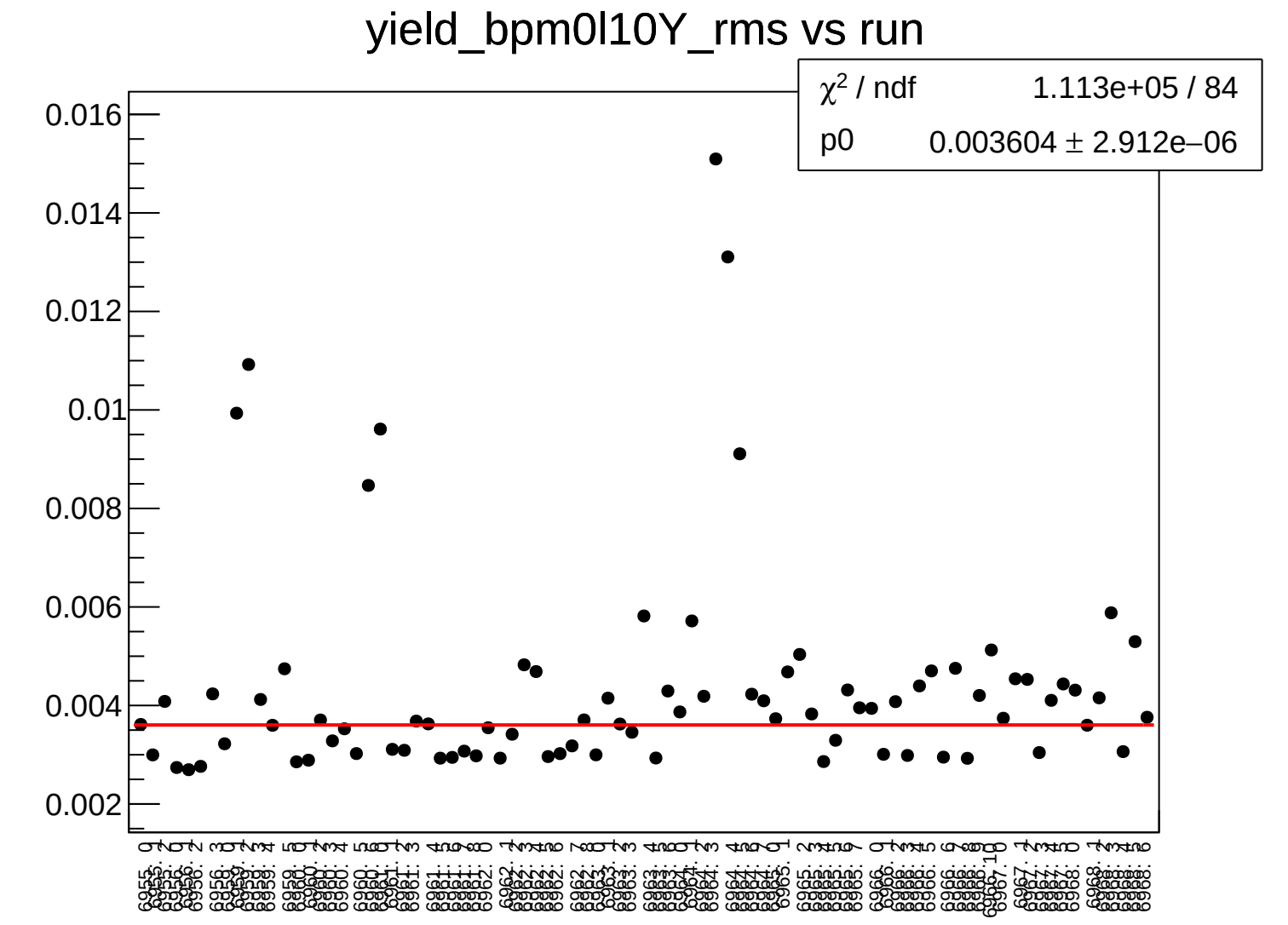

yield_bpm0l10X_mean vs run
χ² / ndf 3.932e+07 / 84
p0 −1.283 ± 1.191e−05
−1.2
−1.25
−1.3
−1.35
−1.4
−1.45
−1.5
pull
Entries 85
Mean 143.3
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

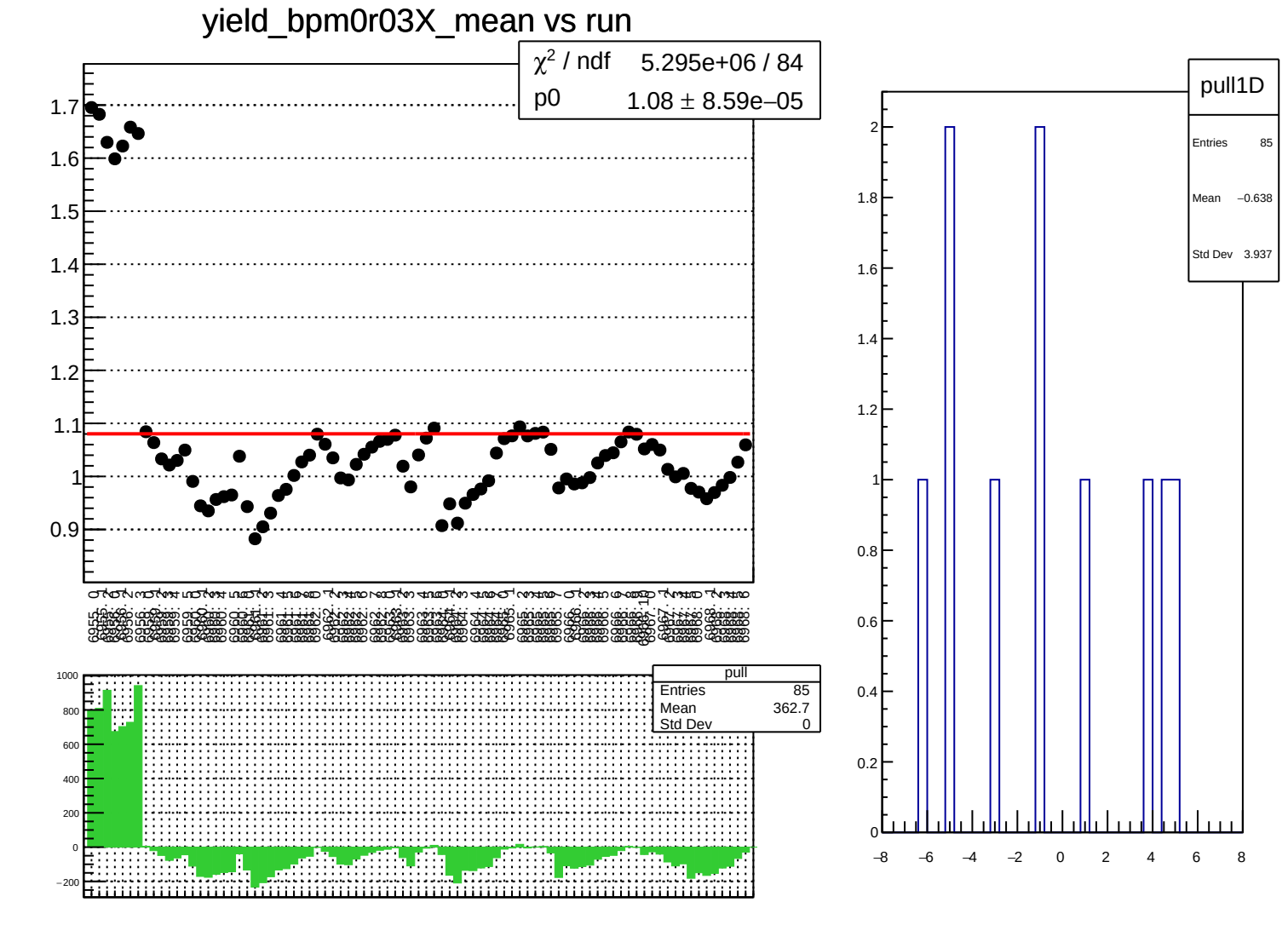

pull1D
Entries 85
Mean −0.9321
Std Dev 3.761
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

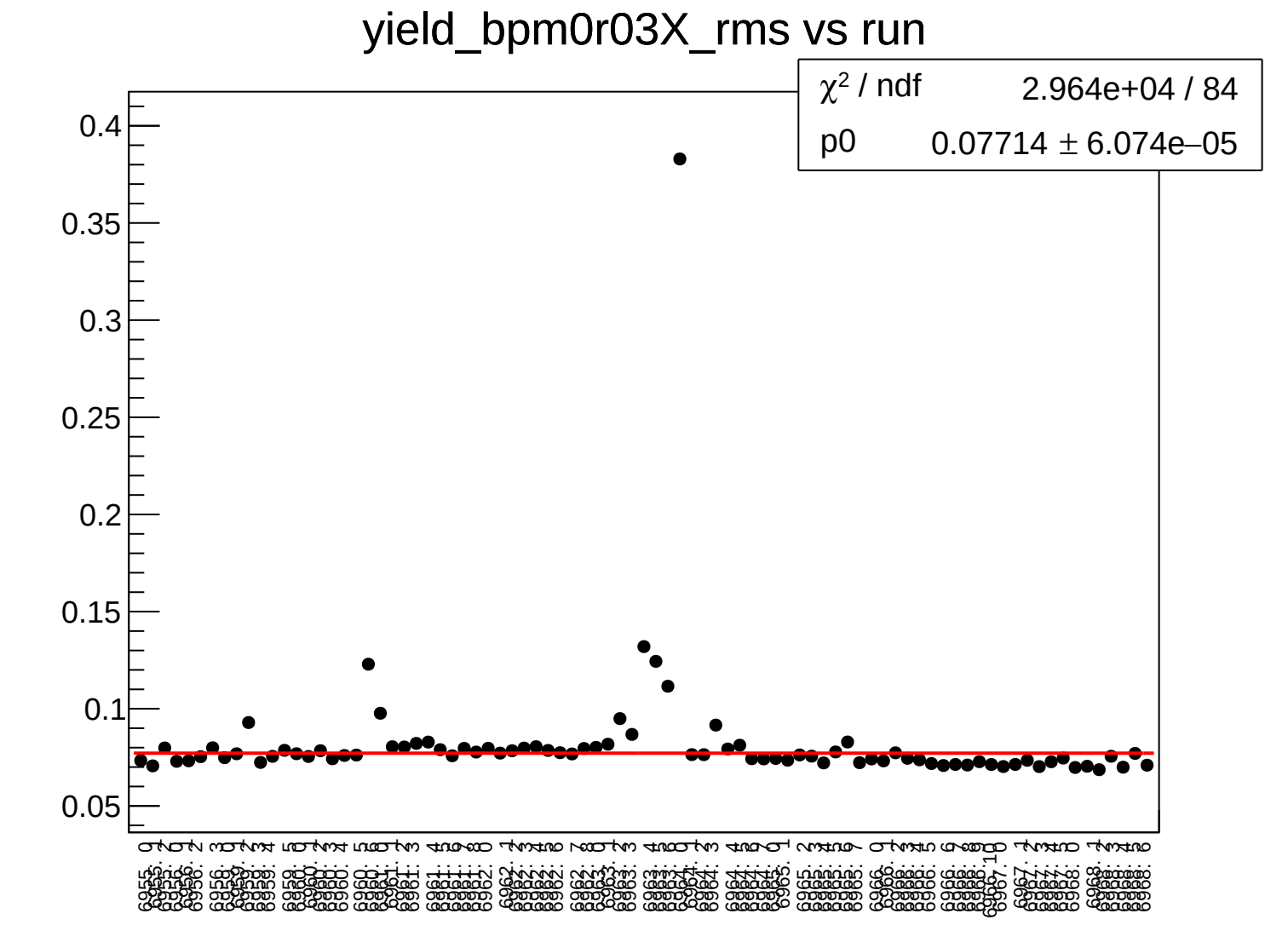

yield_bpm0l10X_rms vs run
χ² / ndf 9.157e+04 / 84
p0 0.01049 ± 8.421e–06
0.035
0.03
0.025
0.02
0.015
0.01

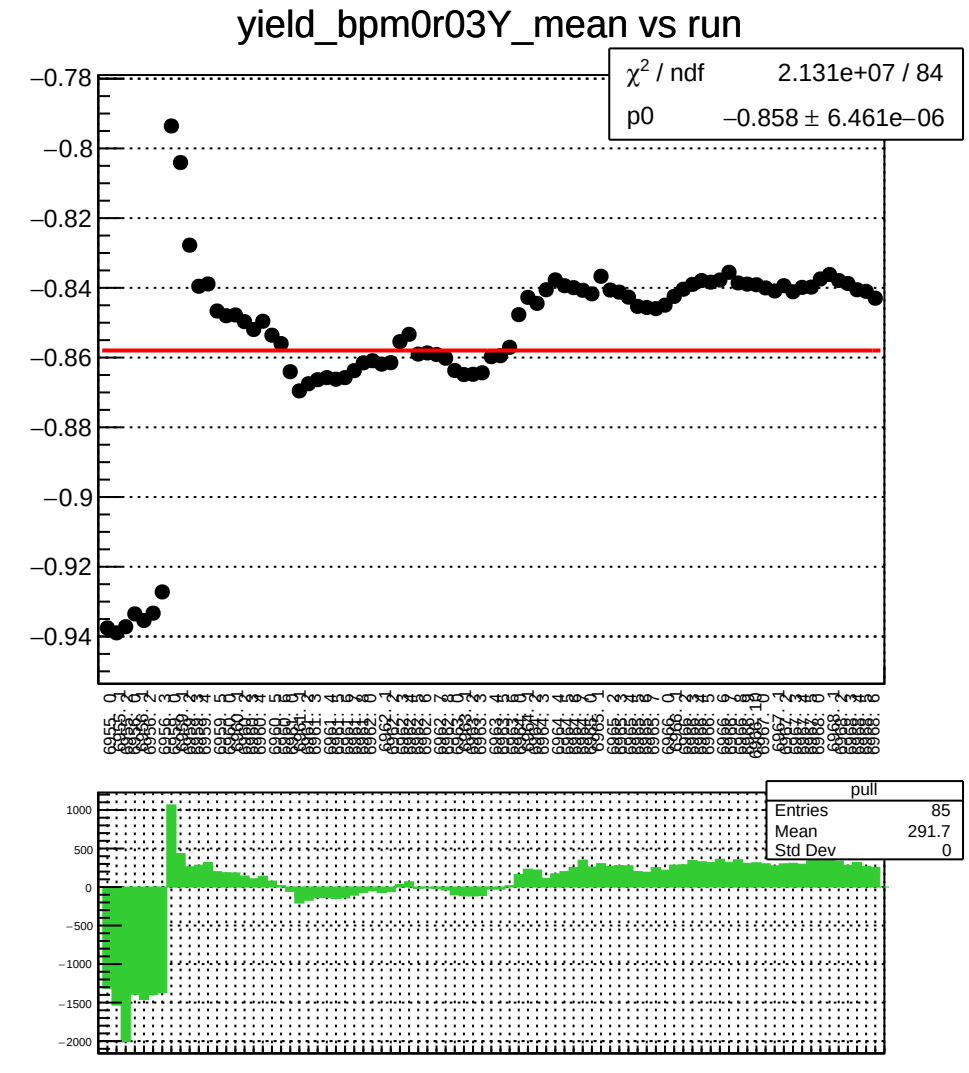

yield_bpm0l10Y_mean vs run
χ² / ndf 1.745e+08 / 84
p0 −0.3757 ± 4.119e−06
pull
Entries 85
Mean 272.7
Std Dev 0

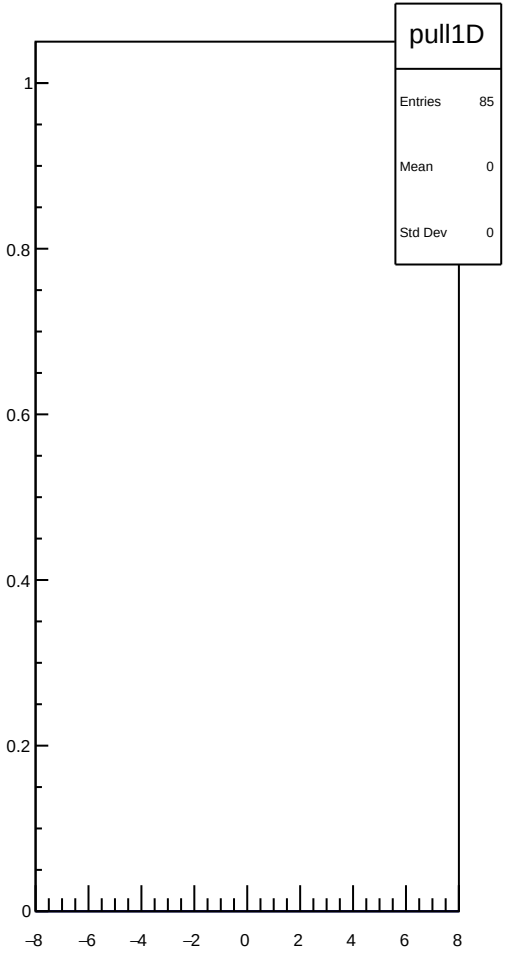

pull1D
Entries 85
Mean 0
Std Dev 0

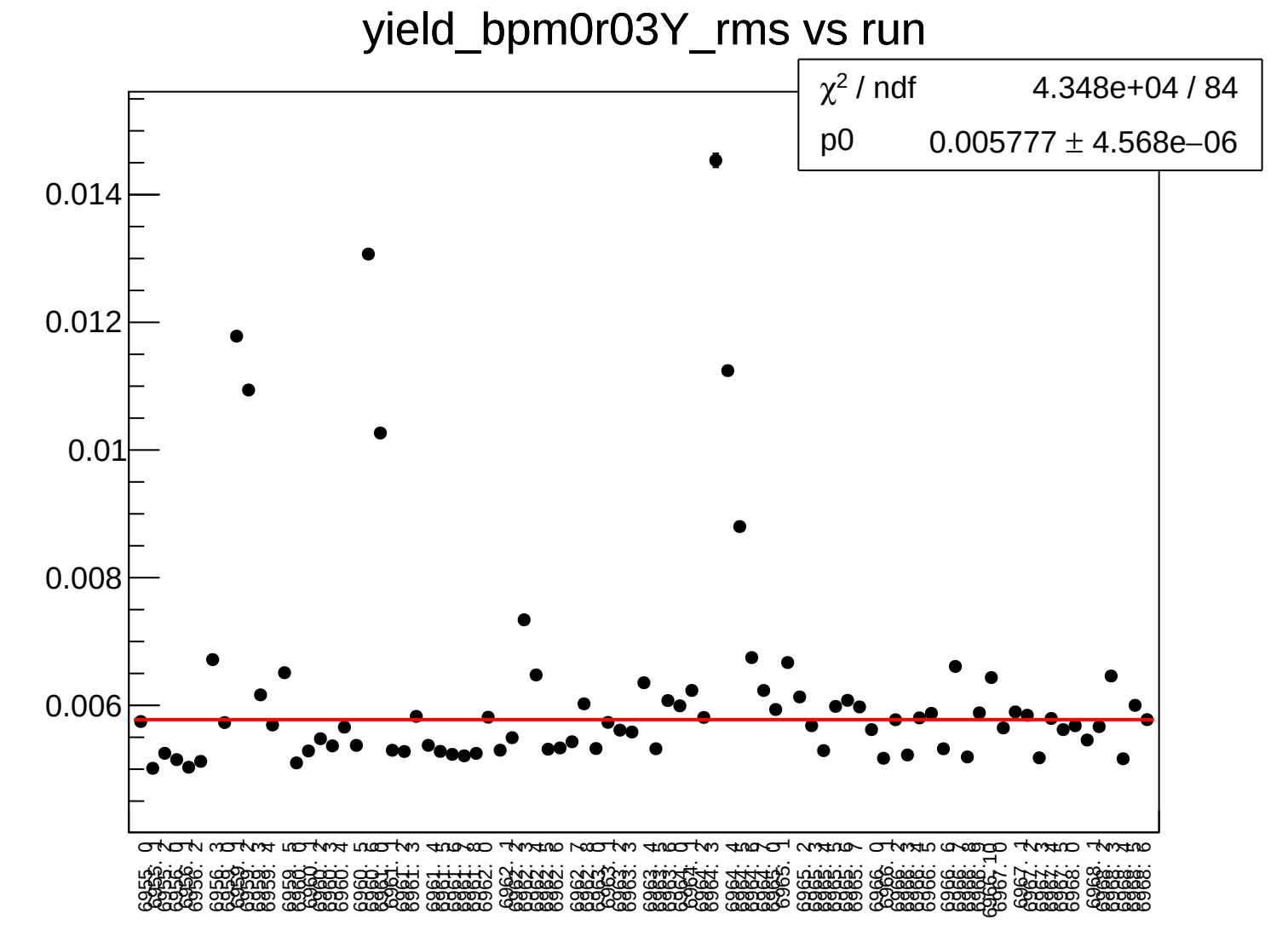

yield_bpm0l10Y_rms vs run
χ² / ndf 1.113e+05 / 84
p0 0.003604 ± 2.912e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

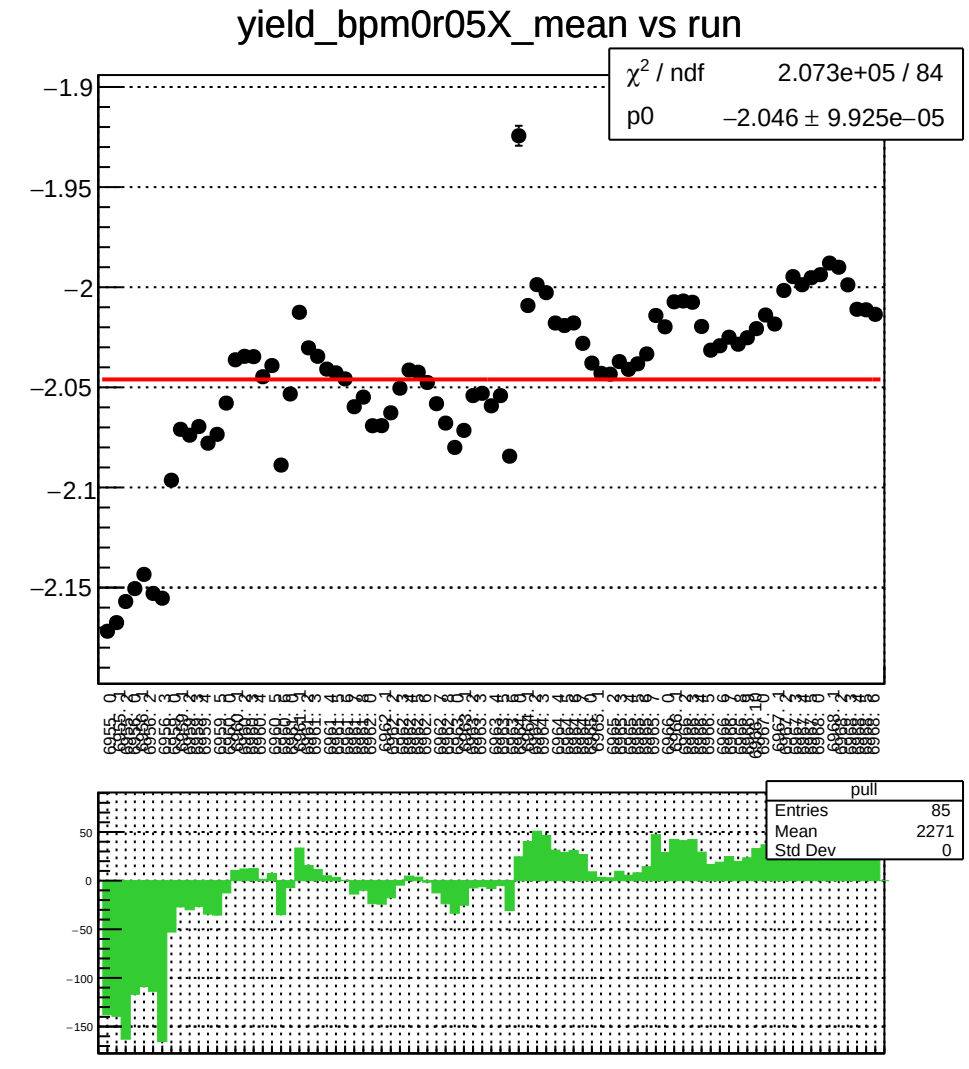

yield_bpm0r03X_mean vs run
χ² / ndf 5.295e+06 / 84
p0 1.08 ± 8.59e−05
pull
Entries 85
Mean 362.7
Std Dev 0
pull1D
Entries 85
Mean −0.638
Std Dev 3.937

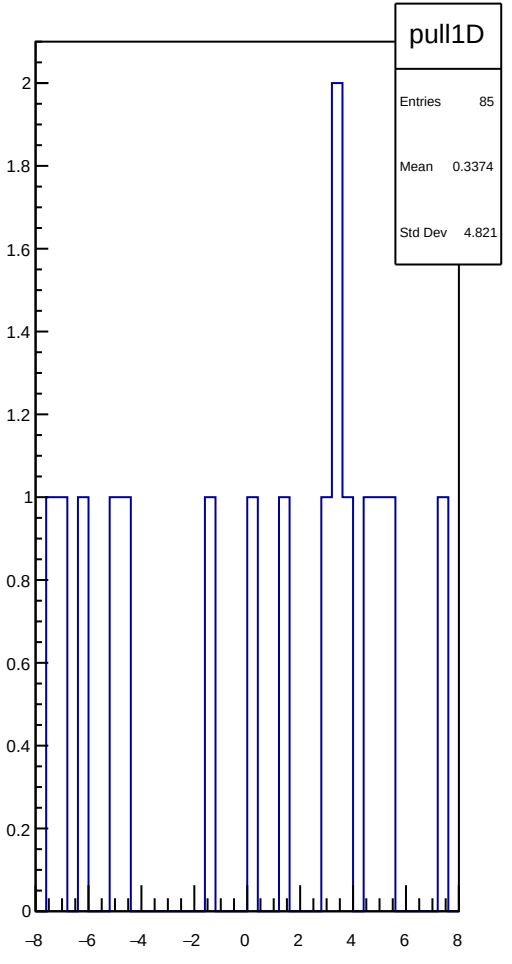

yield_bpm0r03X_rms vs run
χ² / ndf 2.964e+04 / 84
p0 0.07714 ± 6.074e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

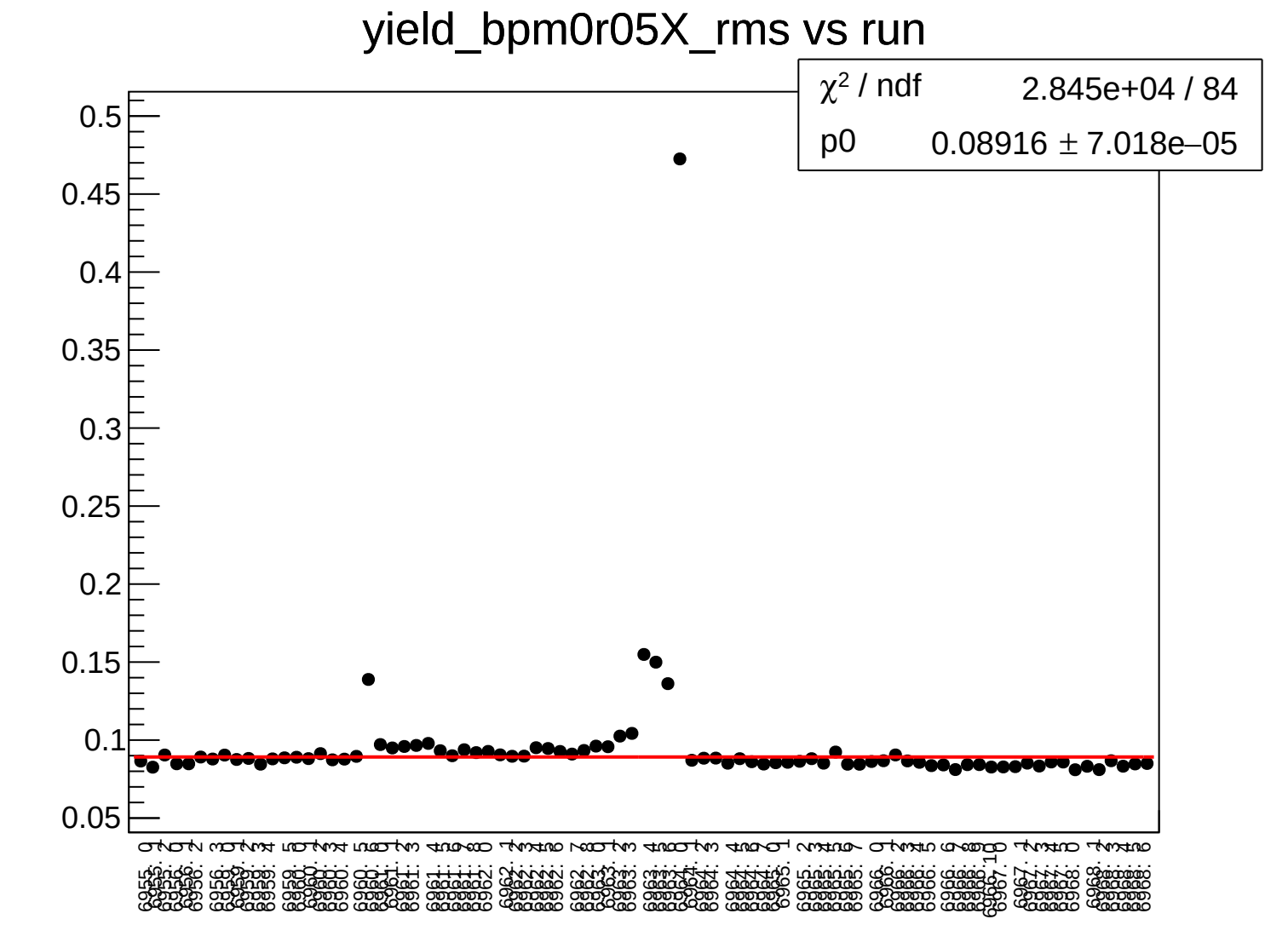

yield_bpm0r03Y_mean vs run
χ² / ndf 2.131e+07 / 84
p0 −0.858 ± 6.461e−06
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
pull
Entries 85
Mean 291.7
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

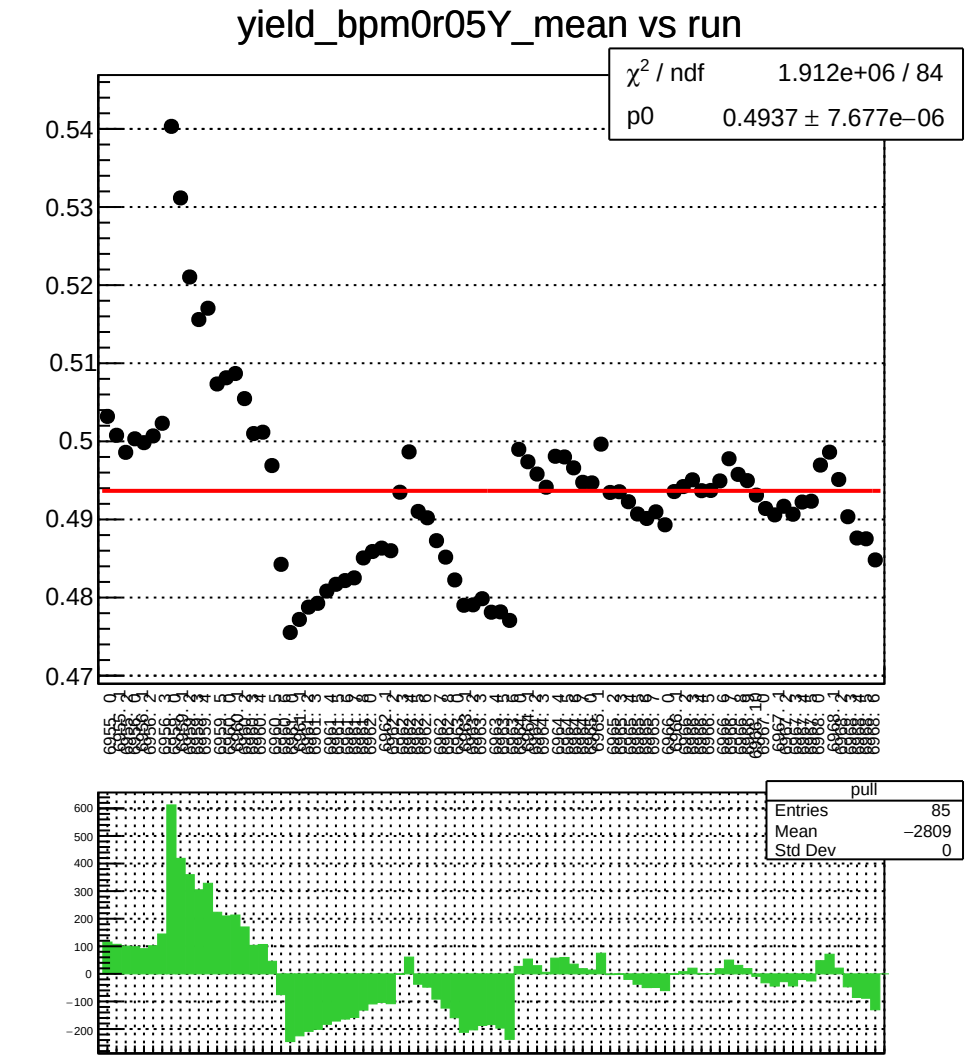

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

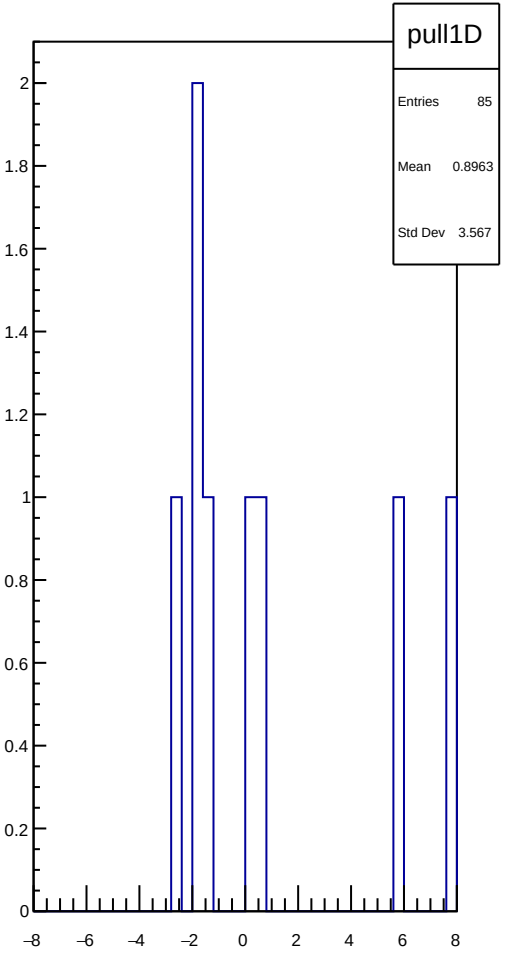

yield_bpm0r03Y_rms vs run
χ² / ndf 4.348e+04 / 84
p0 0.005777 ± 4.568e−06
0.014
0.012
0.01
0.008
0.006

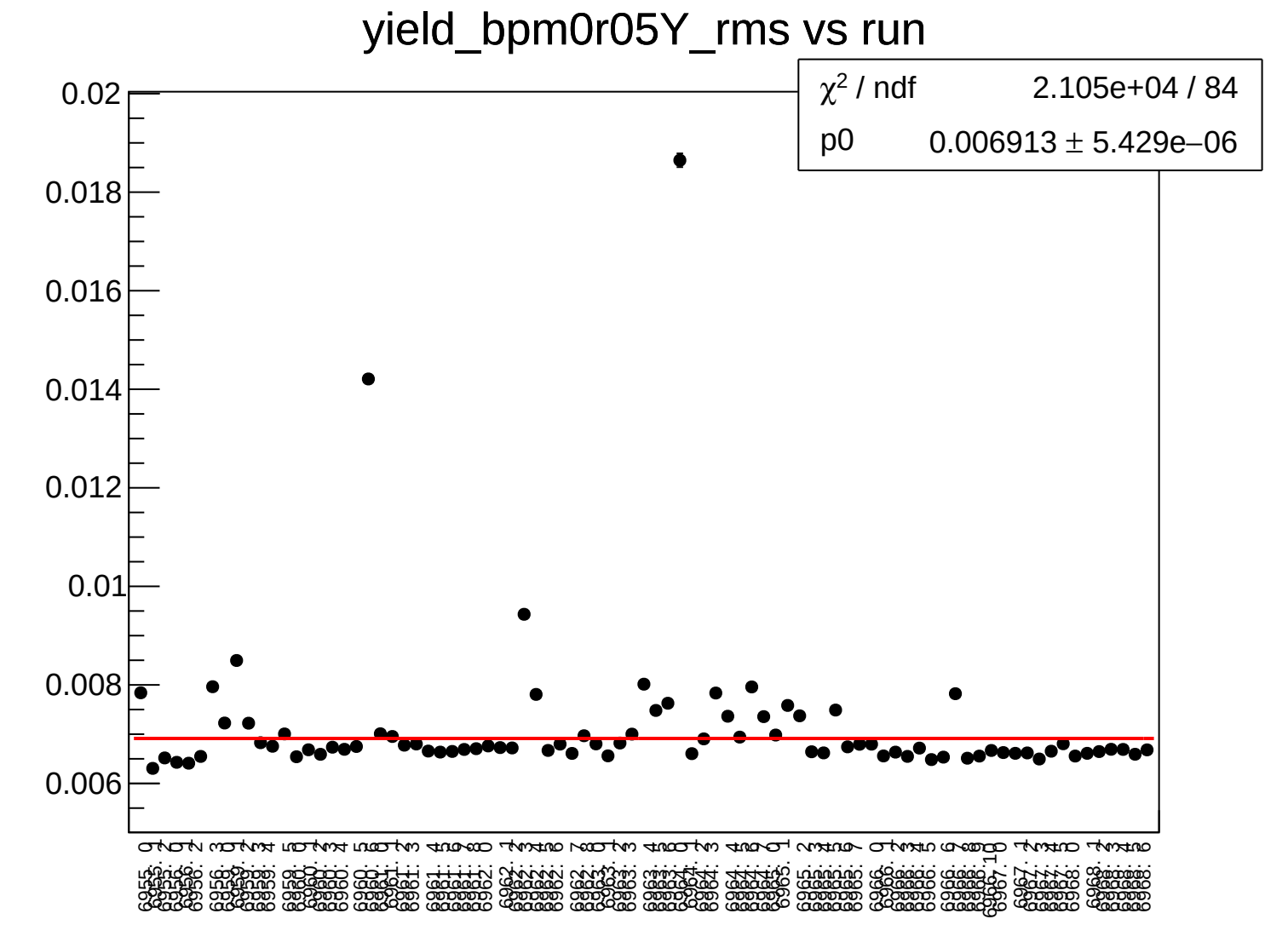

yield_bpm0r05X_mean vs run
χ² / ndf 2.073e+05 / 84
p0 −2.046 ± 9.925e−05
−1.9
−1.95
−2
−2.05
−2.1
−2.15
pull
Entries 85
Mean 2271
Std Dev 0
50
0
−50
−100
−150

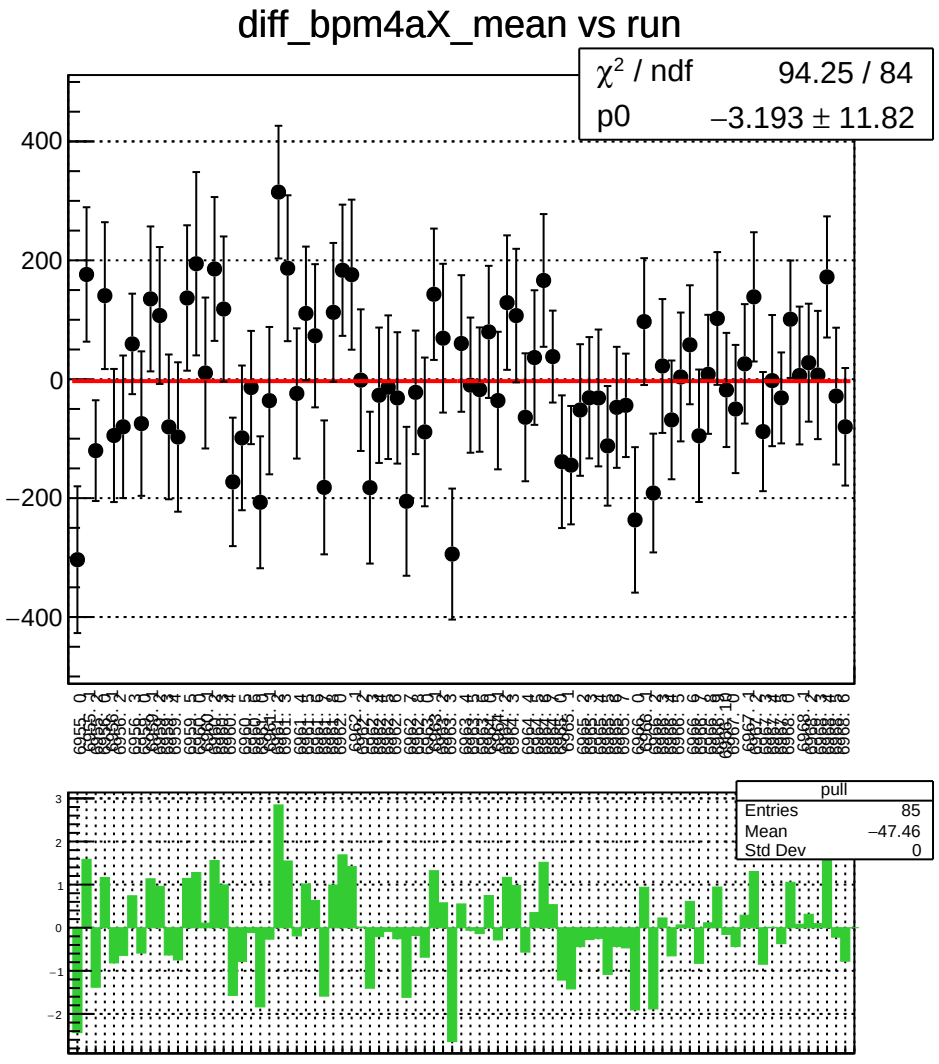

pull1D
Entries 85
Mean 0.3374
Std Dev 4.821
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

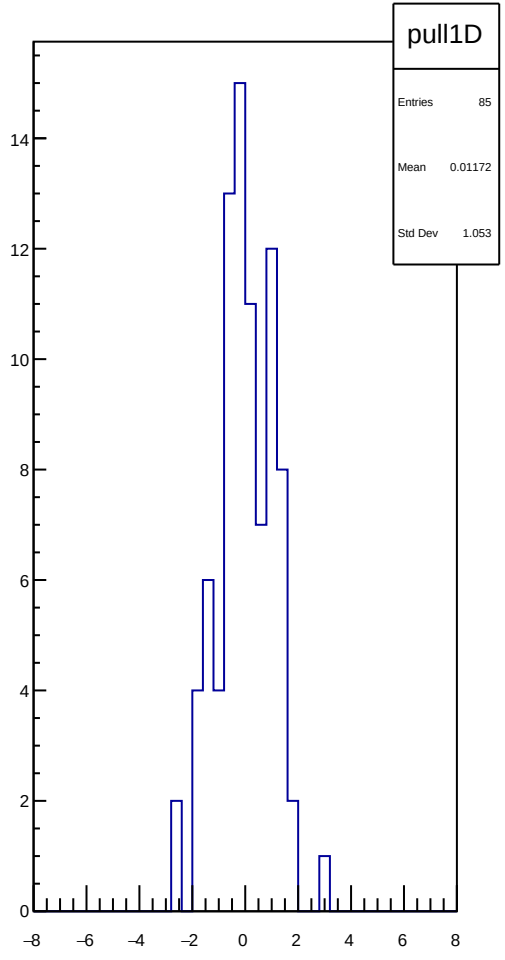

yield_bpm0r05X_rms vs run
χ² / ndf 2.845e+04 / 84
p0 0.08916 ± 7.018e–05
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

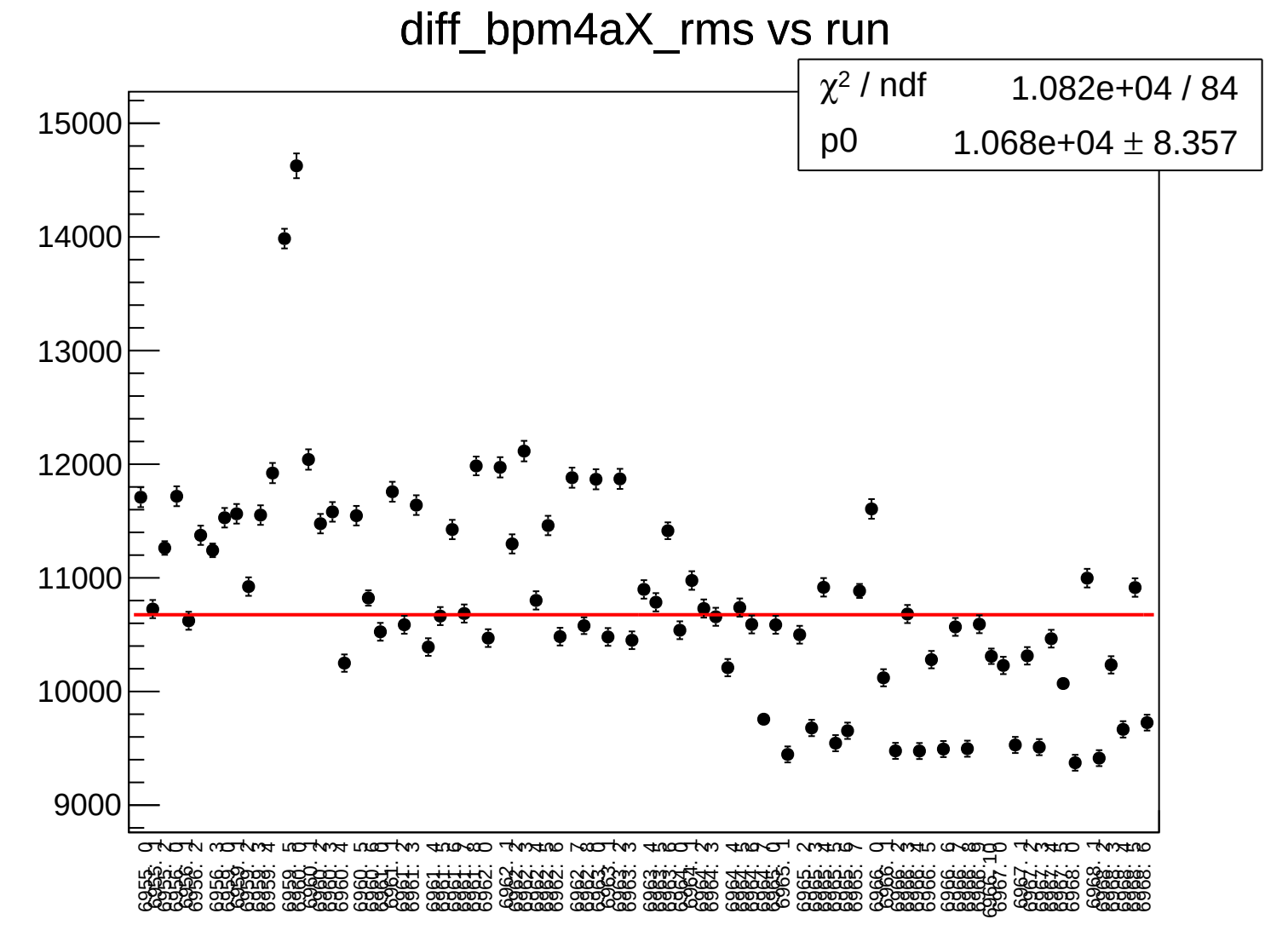

yield_bpm0r05Y_mean vs run
χ² / ndf 1.912e+06 / 84
p0 0.4937 ± 7.677e−06
0.54
0.53
0.52
0.51
0.5
0.49
0.48
0.47
pull
Entries 85
Mean −2809
Std Dev 0
600
500
400
300
200
100
0
−100
−200

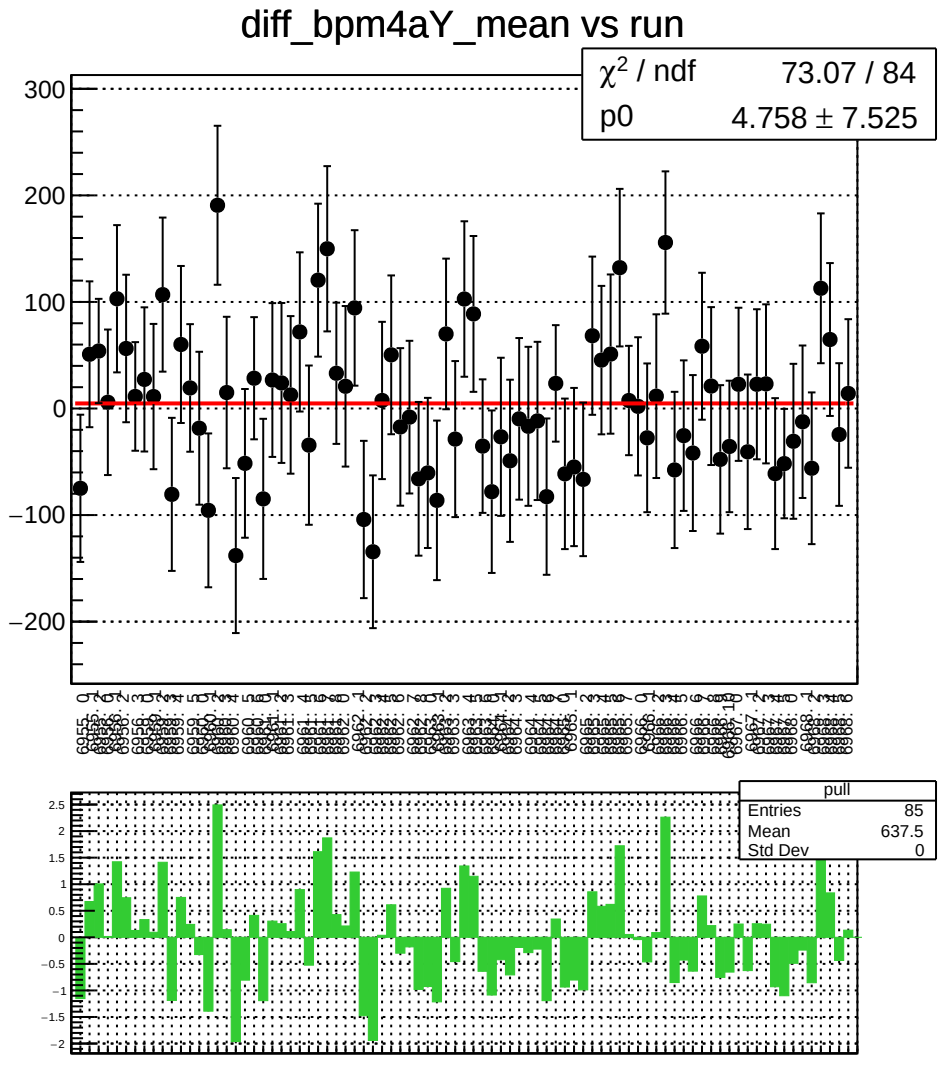

pull1D
Entries 85
Mean 0.8963
Std Dev 3.567
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

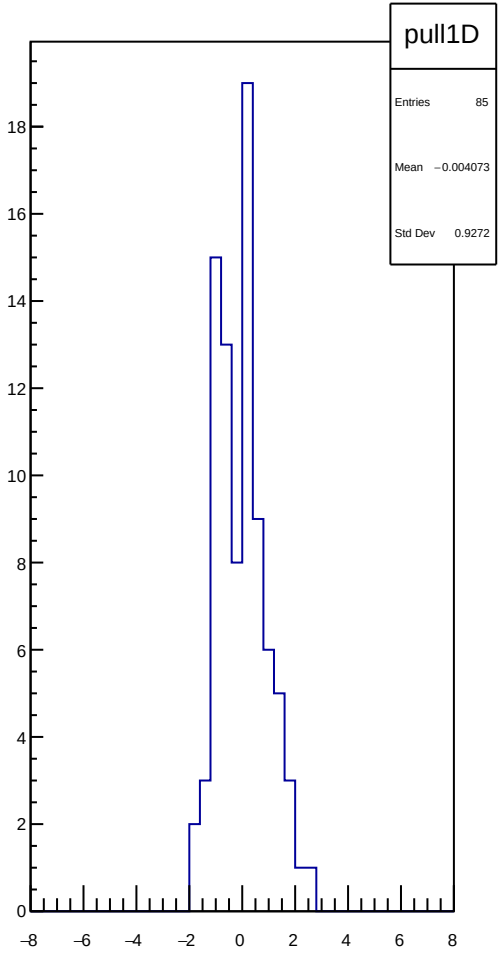

yield_bpm0r05Y_rms vs run
$\chi^2$ / ndf 2.105e+04 / 84
p0 0.006913 ± 5.429e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

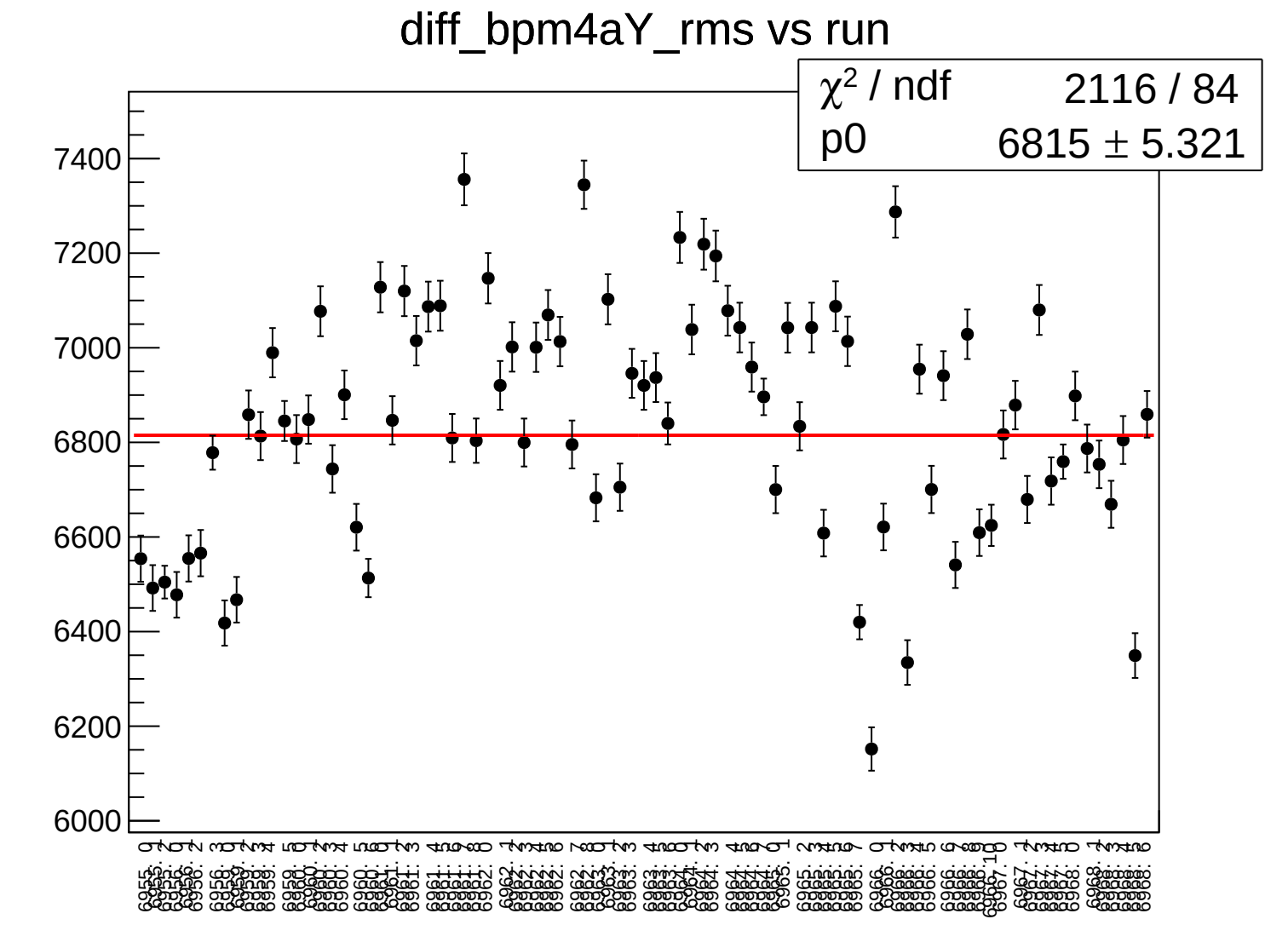

diff_bpm4aX_mean vs run
χ² / ndf 94.25 / 84
p0 −3.193 ± 11.82
400
200
0
−200
−400
pull
Entries 85
Mean −47.46
Std Dev 0
3
2
1
0
−1
−2

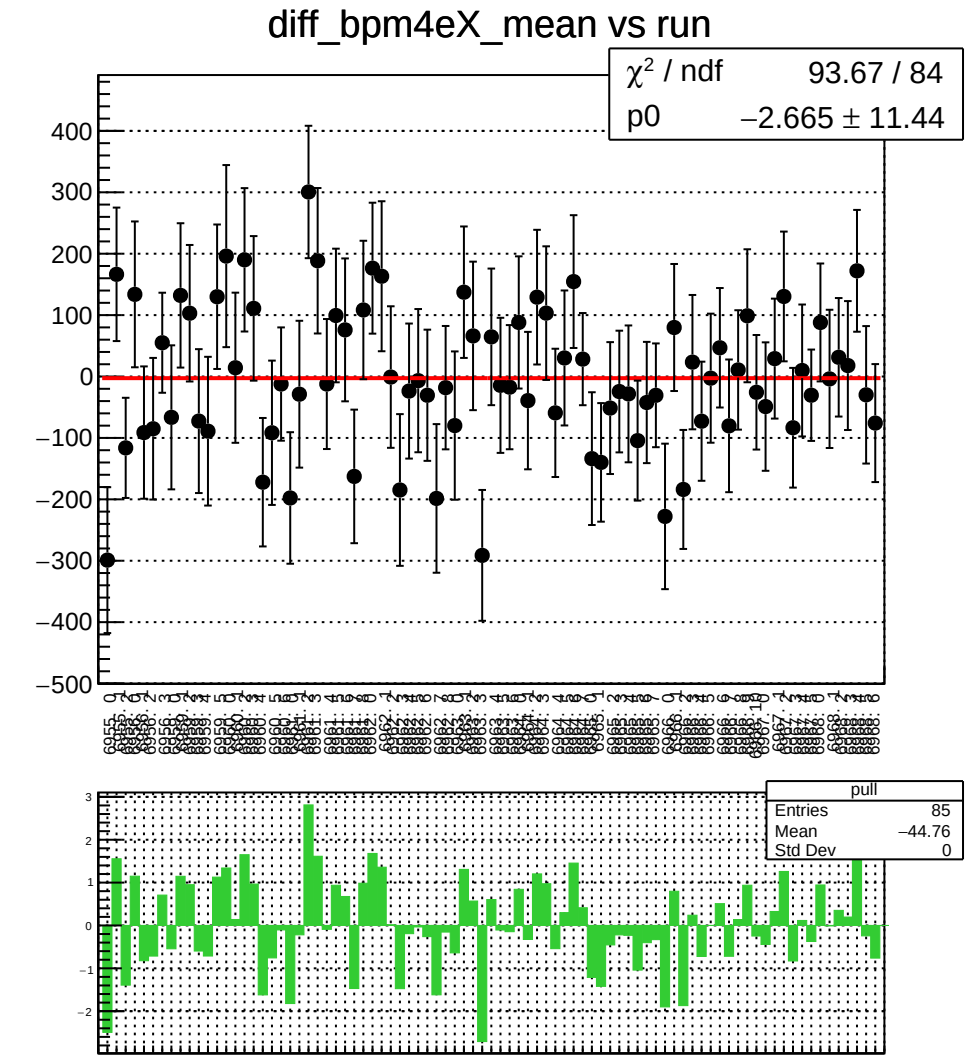

pull1D
Entries 85
Mean 0.01172
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

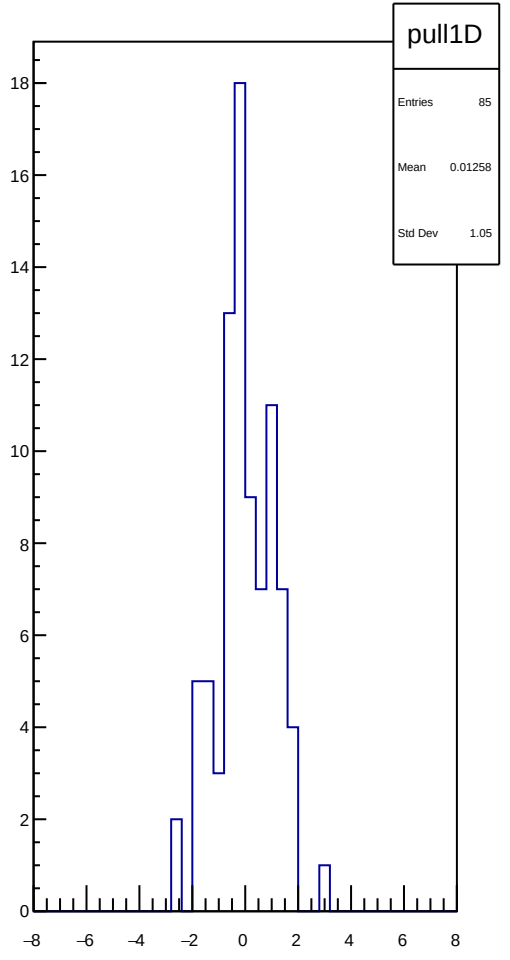

diff_bpm4aX_rms vs run
$\chi^2$ / ndf 1.082e+04 / 84
p0 1.068e+04 ± 8.357
15000
14000
13000
12000
11000
10000
9000

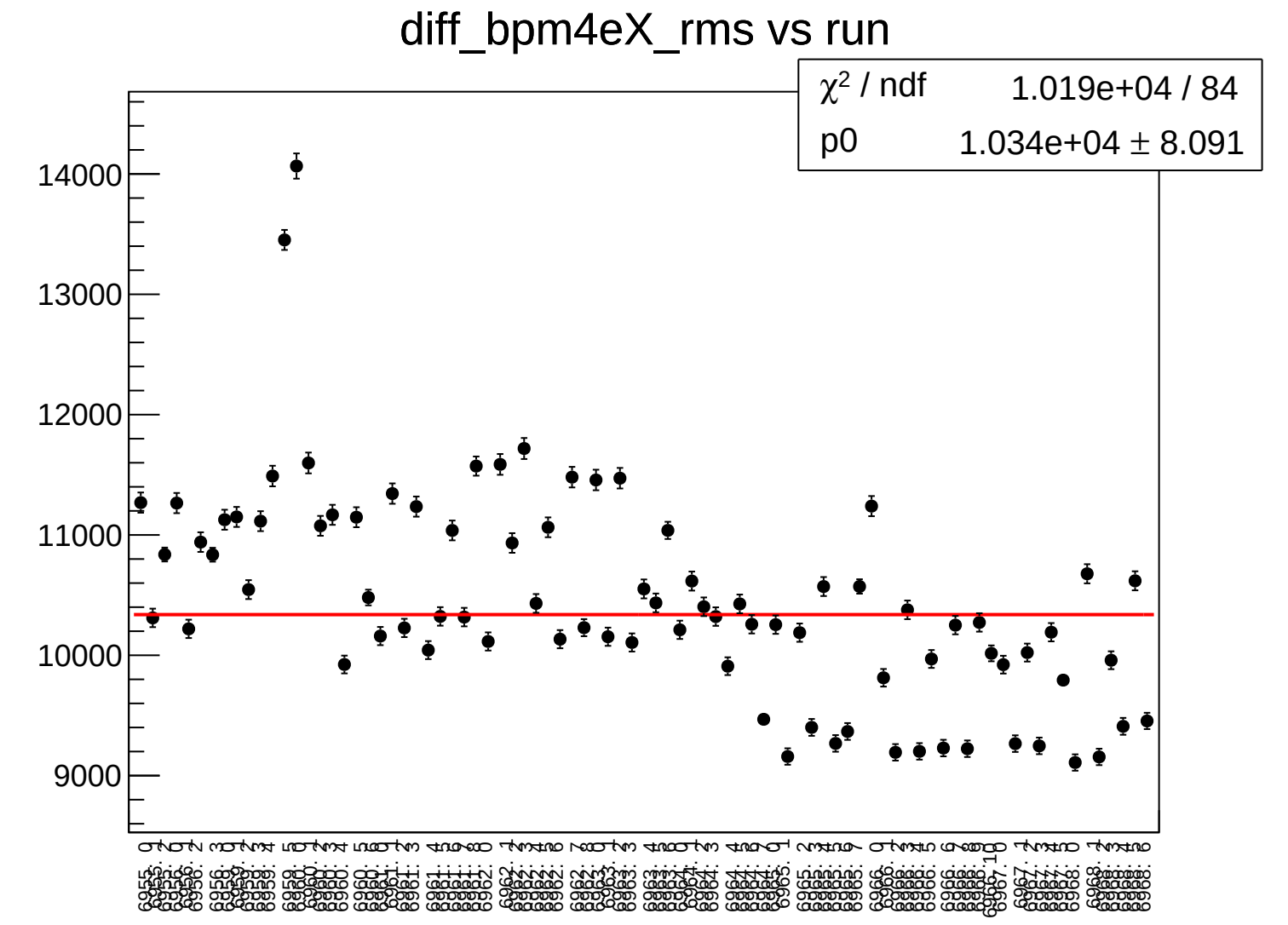

diff_bpm4aY_mean vs run
χ² / ndf 73.07 / 84
p0 4.758 ± 7.525
300
200
100
0
−100
−200
pull
Entries 85
Mean 637.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

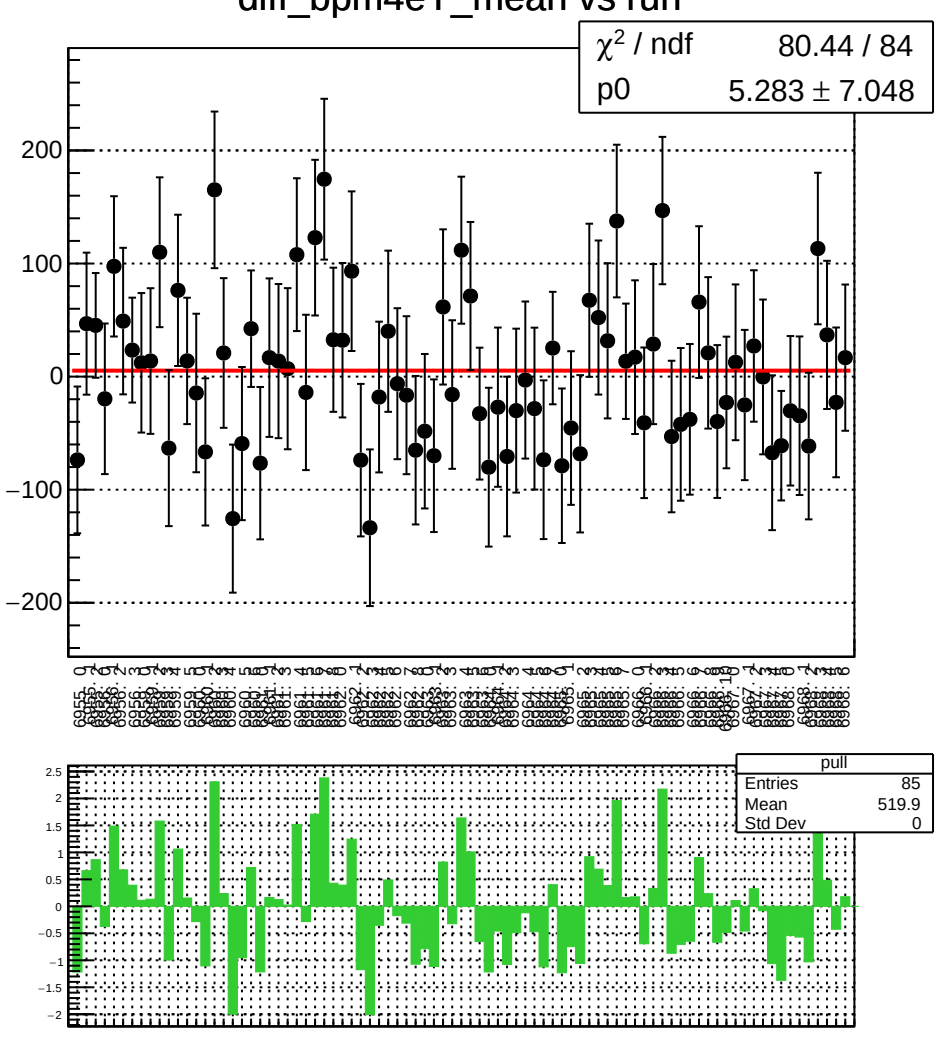

pull1D
Entries 85
Mean −0.004073
Std Dev 0.9272
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

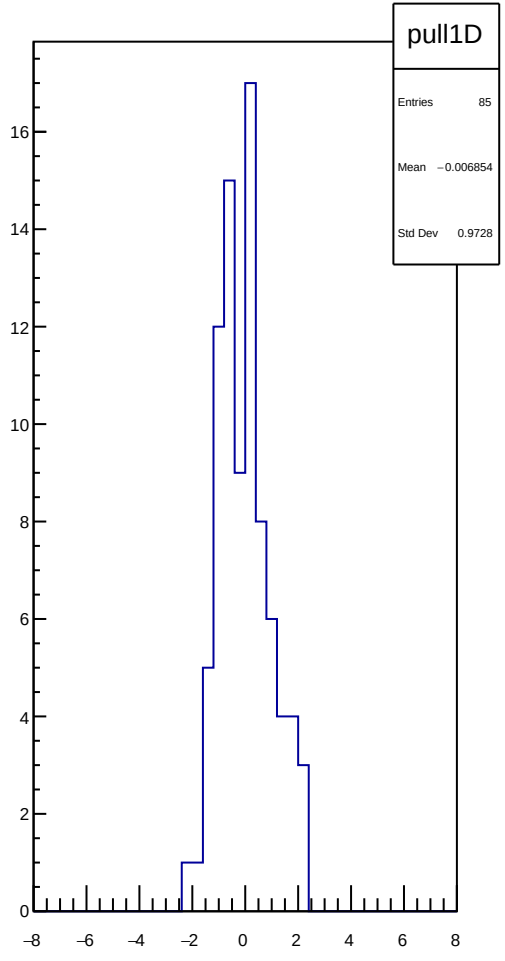

diff_bpm4aY_rms vs run
χ² / ndf 2116 / 84
p0 6815 ± 5.321
7400
7200
7000
6800
6600
6400
6200
6000

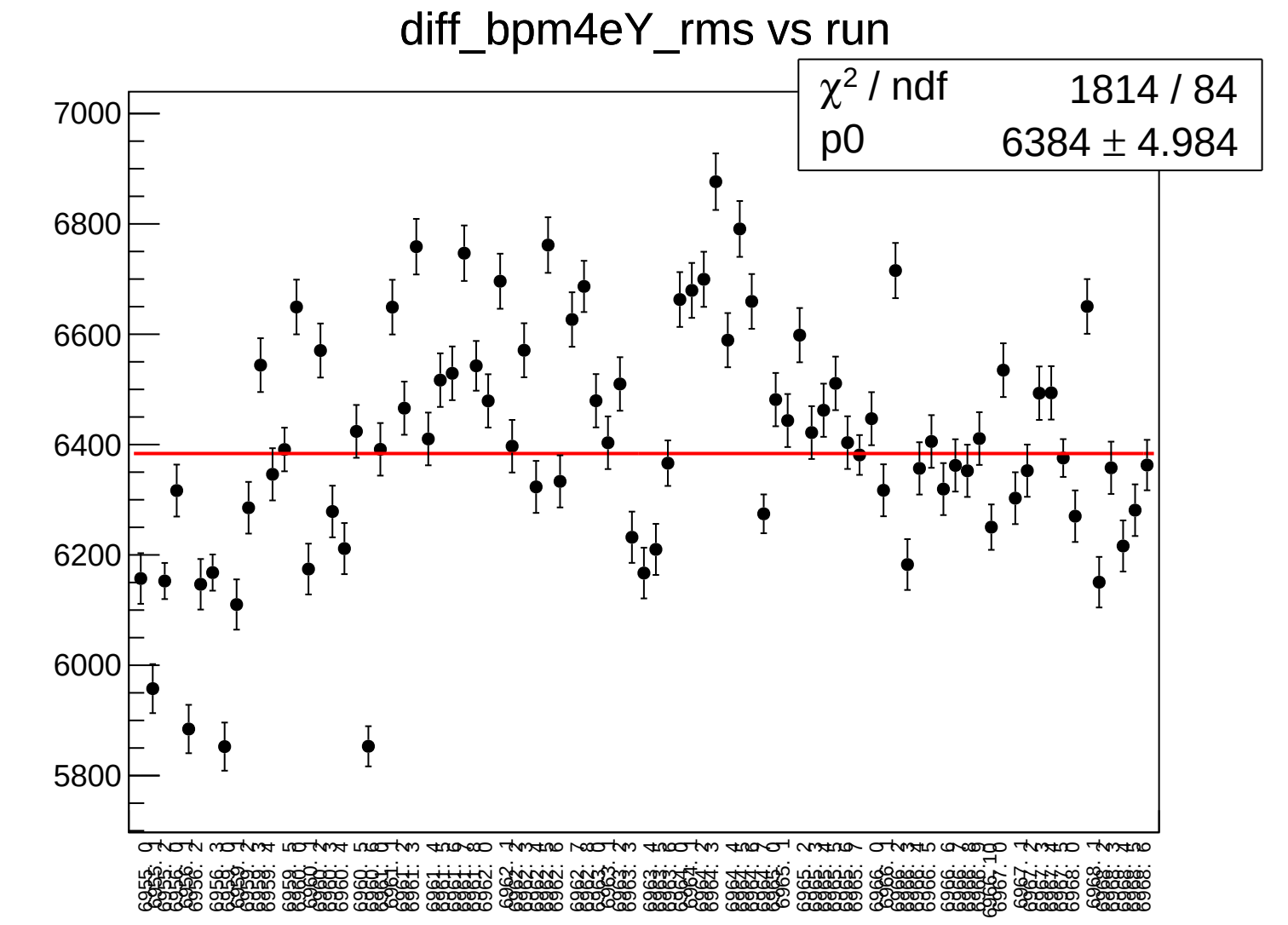

diff_bpm4eX_mean vs run
χ² / ndf 93.67 / 84
p0 −2.665 ± 11.44
pull
Entries 85
Mean −44.76
Std Dev 0

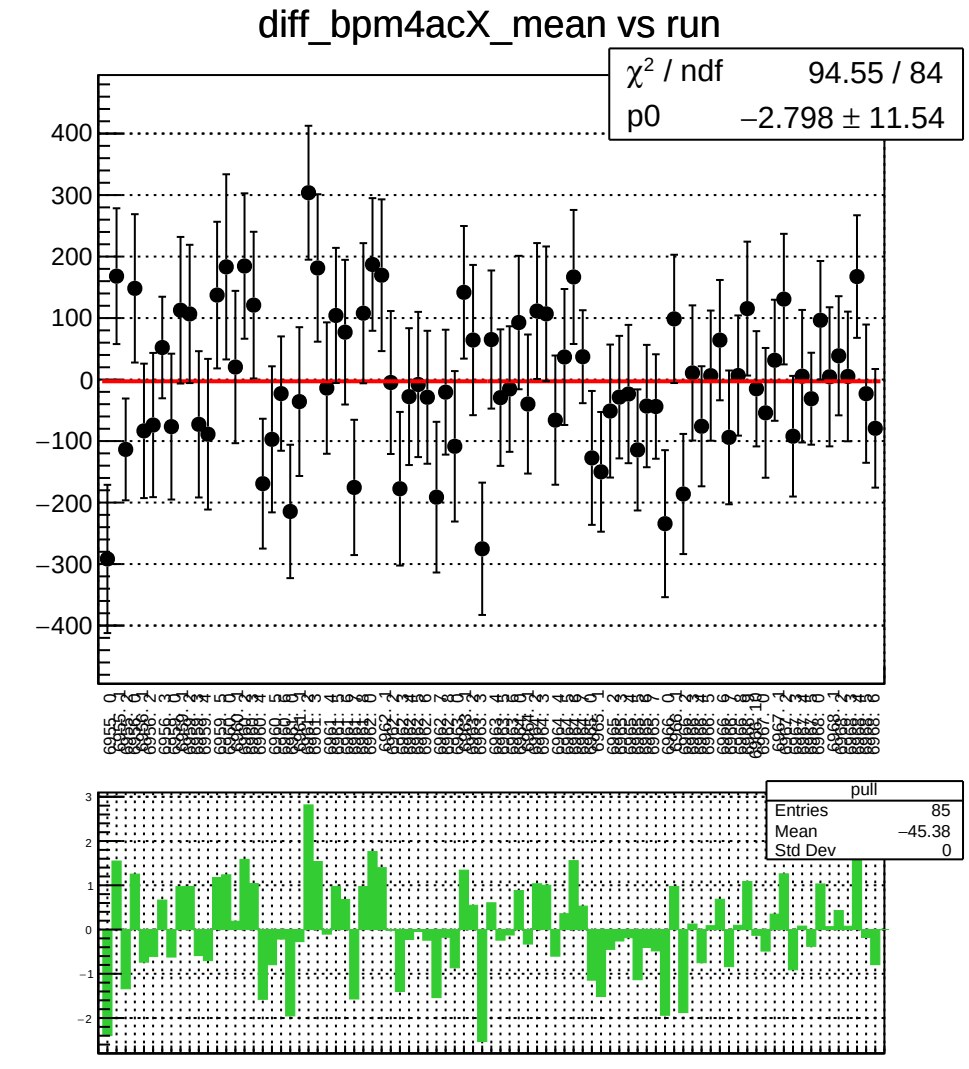

pull1D
Entries 85
Mean 0.01258
Std Dev 1.05

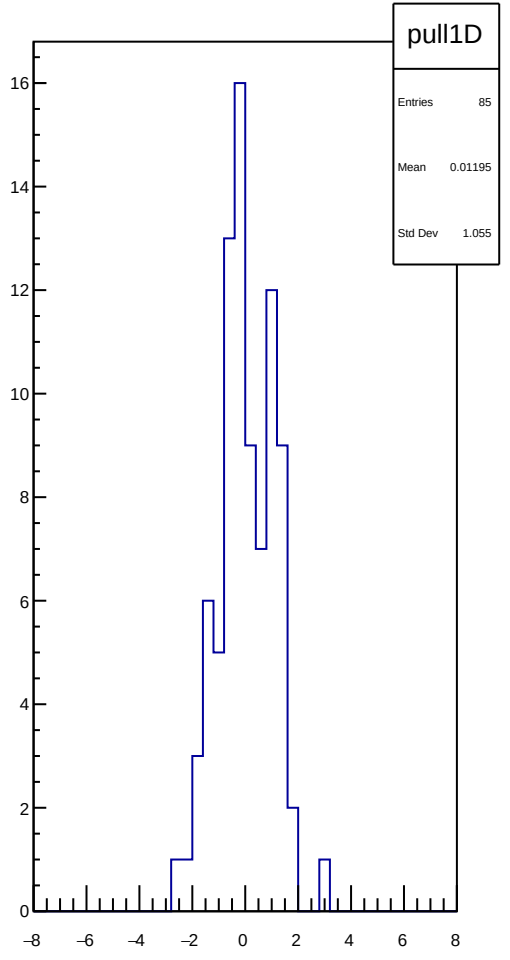

diff_bpm4eX_rms vs run
χ² / ndf 1.019e+04 / 84
p0 1.034e+04 ± 8.091
14000
13000
12000
11000
10000
9000

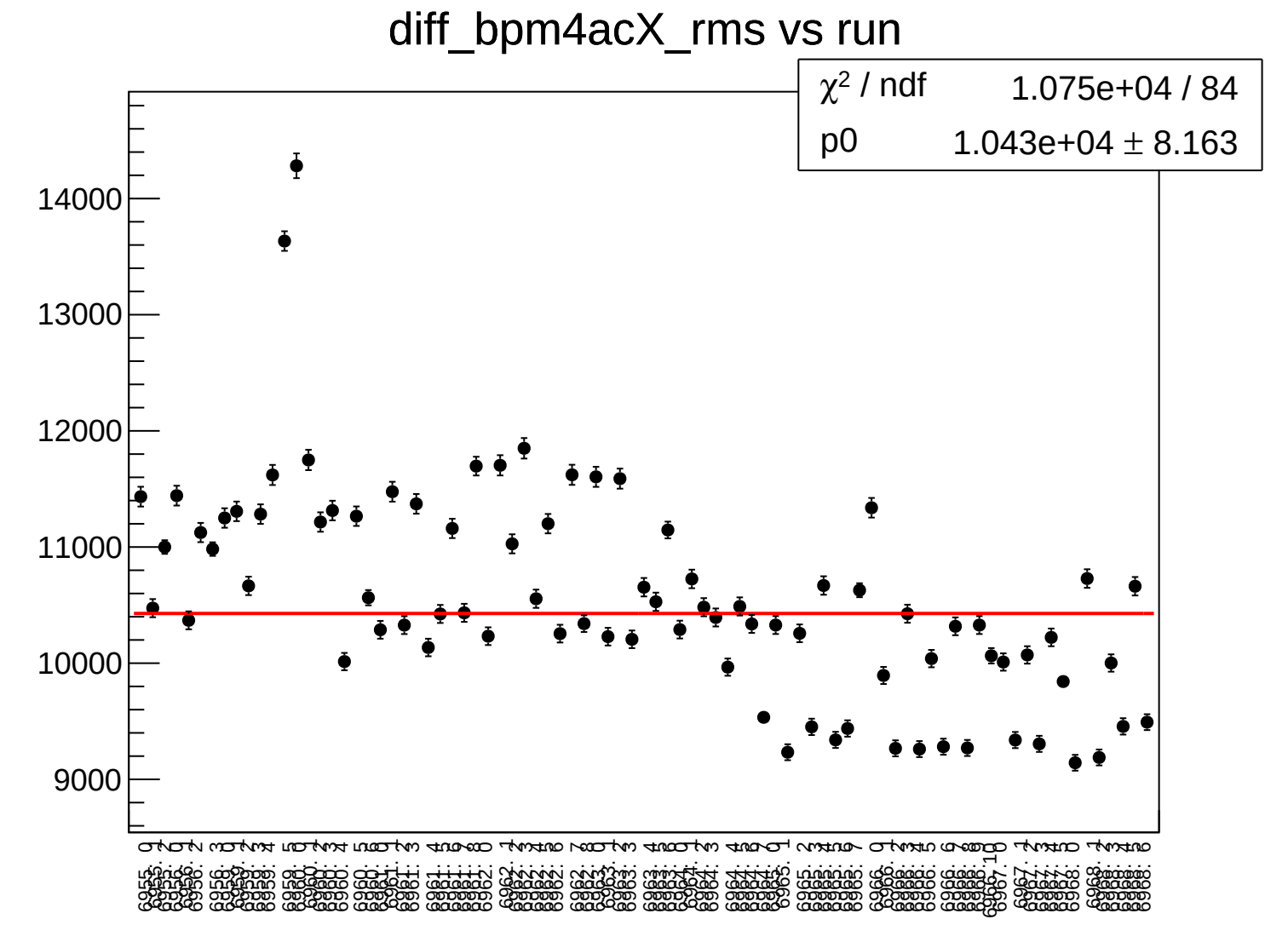

diff_bpm4eY_mean vs run
χ² / ndf 80.44 / 84
p0 5.283 ± 7.048
200
100
0
−100
−200
pull
Entries 85
Mean 519.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

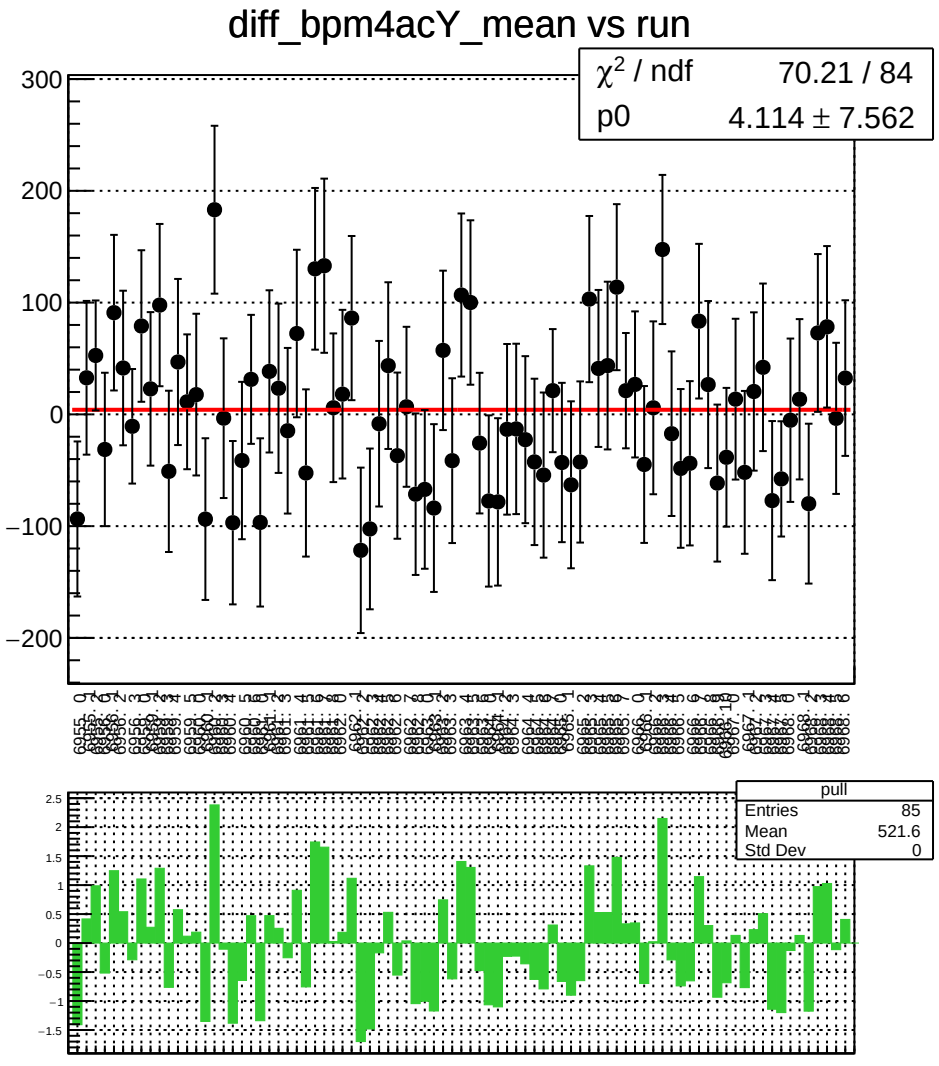

pull1D
Entries 85
Mean −0.006854
Std Dev 0.9728
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

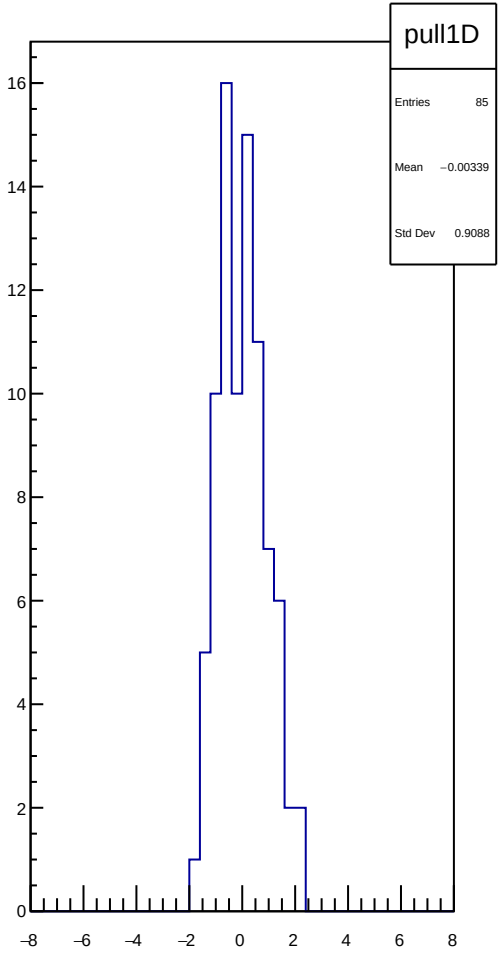

diff_bpm4eY_rms vs run
$\chi^2$ / ndf 1814 / 84
p0 6384 ± 4.984
7000
6800
6600
6400
6200
6000
5800

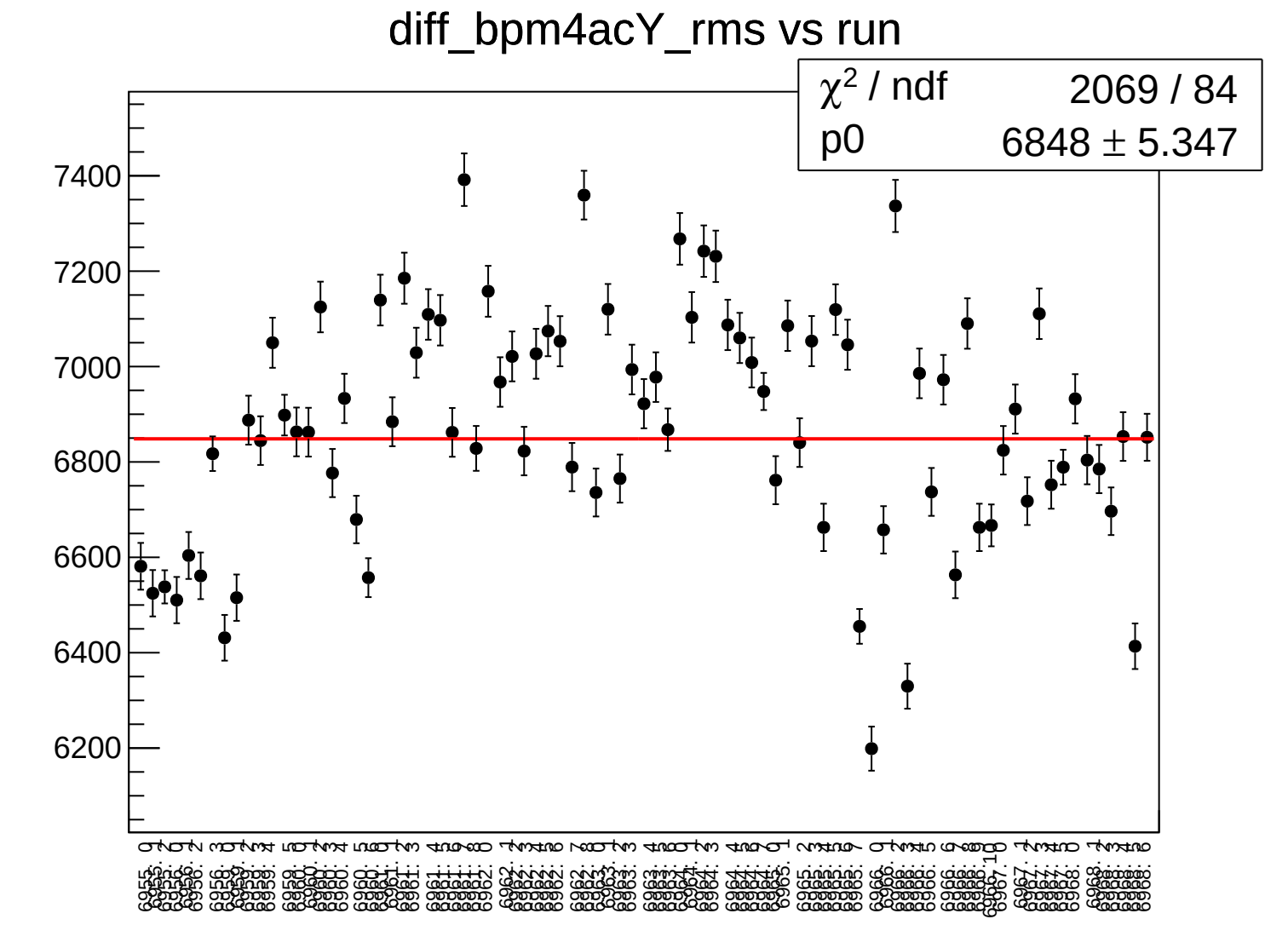

diff_bpm4acX_mean vs run
χ² / ndf 94.55 / 84
p0 −2.798 ± 11.54
pull
Entries 85
Mean −45.38
Std Dev 0

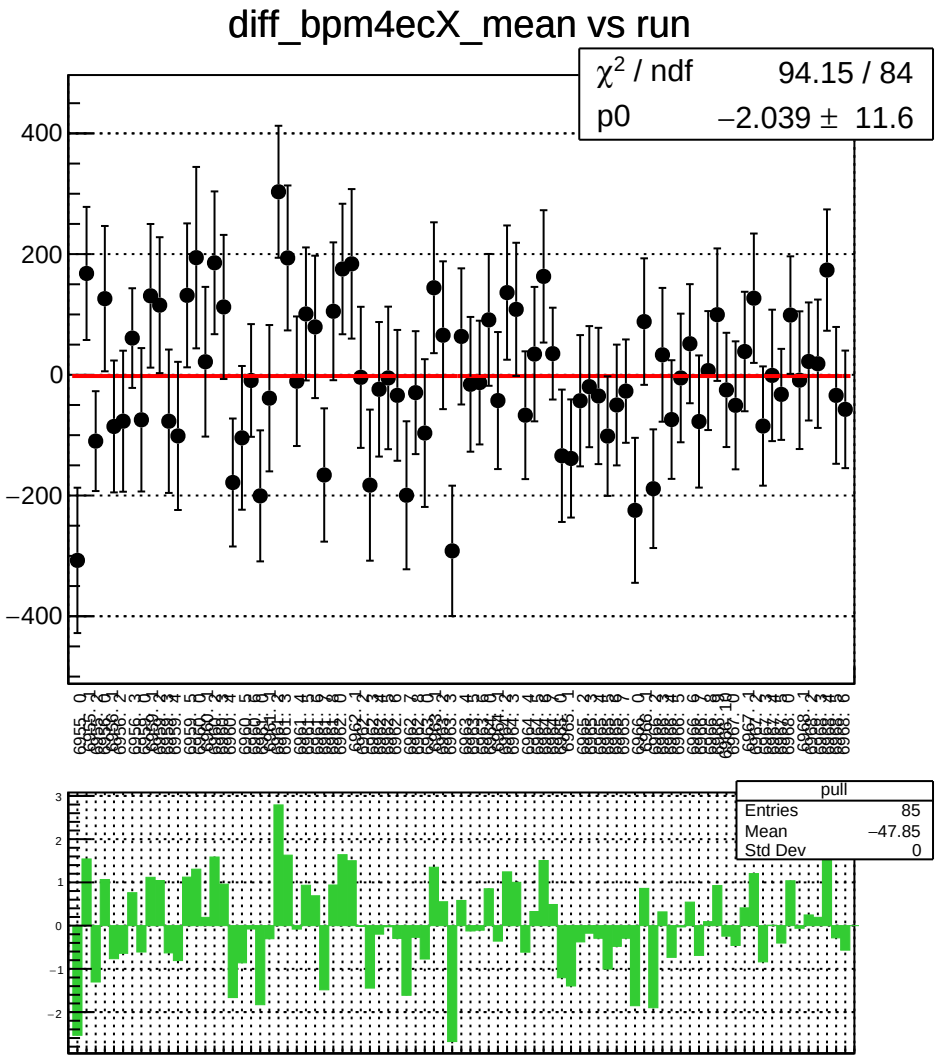

pull1D
Entries 85
Mean 0.01195
Std Dev 1.055

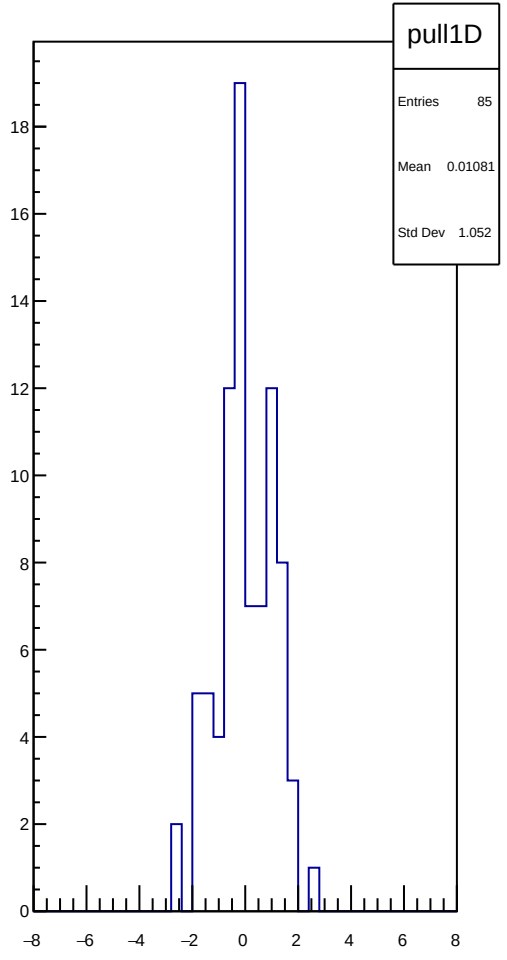

diff_bpm4acX_rms vs run
χ² / ndf 1.075e+04 / 84
p0 1.043e+04 ± 8.163
14000
13000
12000
11000
10000
9000

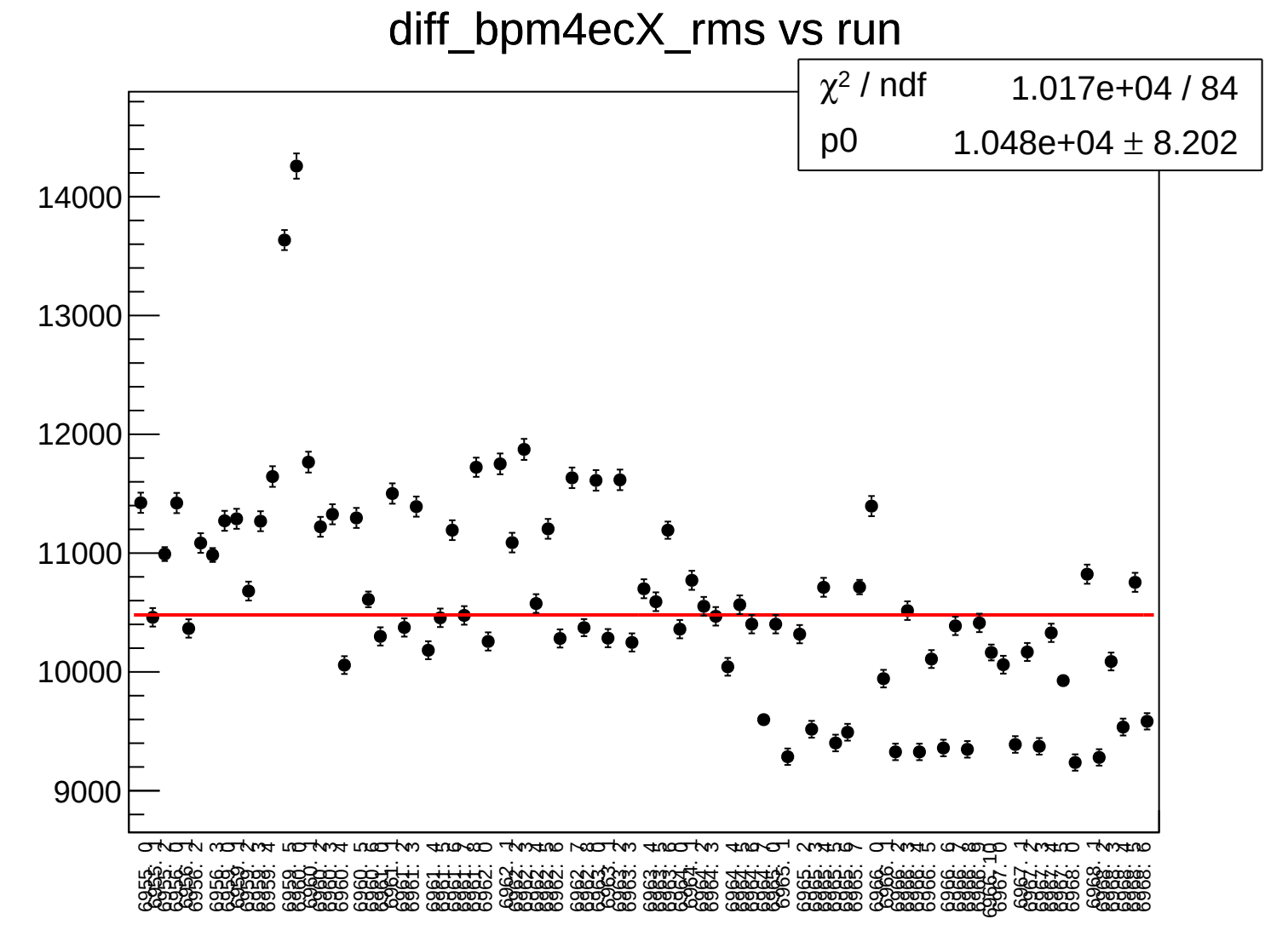

diff_bpm4acY_mean vs run
$\chi^2$ / ndf 70.21 / 84
p0 4.114 ± 7.562
pull
Entries 85
Mean 521.6
Std Dev 0

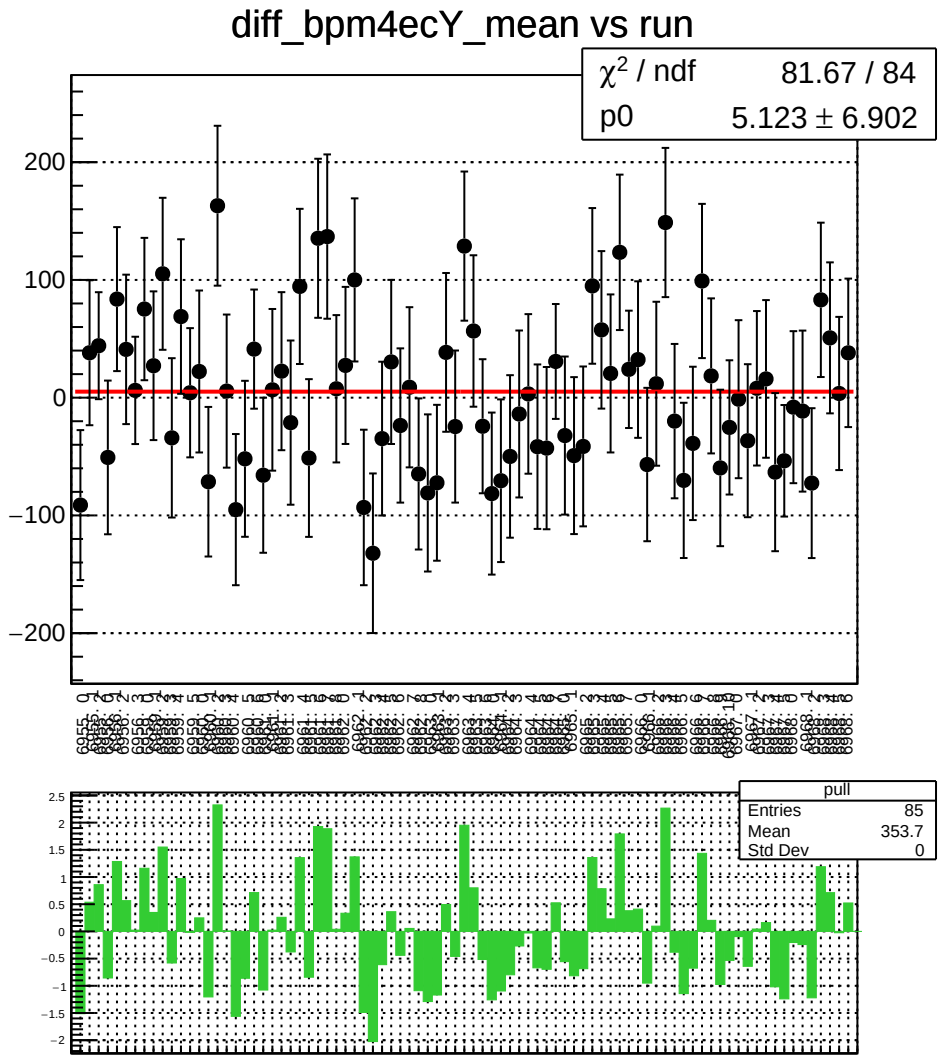

pull1D
Entries 85
Mean −0.00339
Std Dev 0.9088

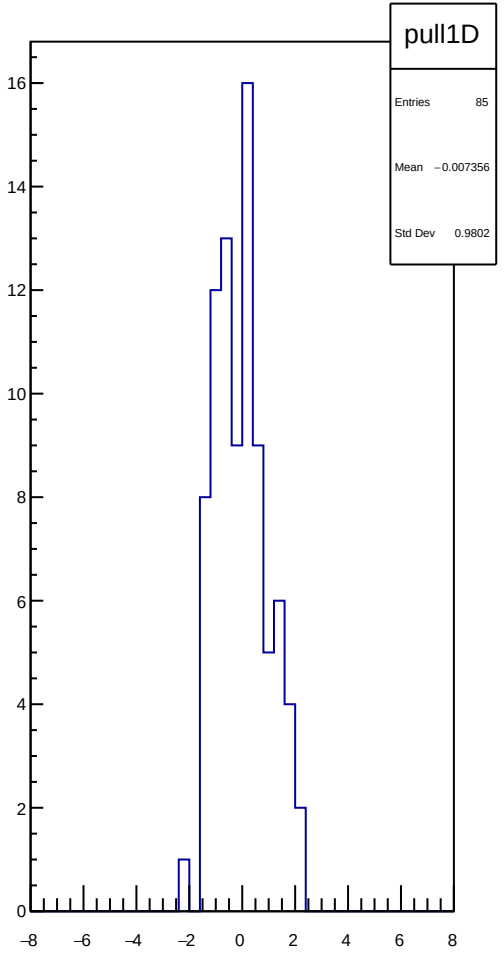

diff_bpm4acY_rms vs run
$\chi^2$ / ndf 2069 / 84
p0 6848 ± 5.347
7400
7200
7000
6800
6600
6400
6200

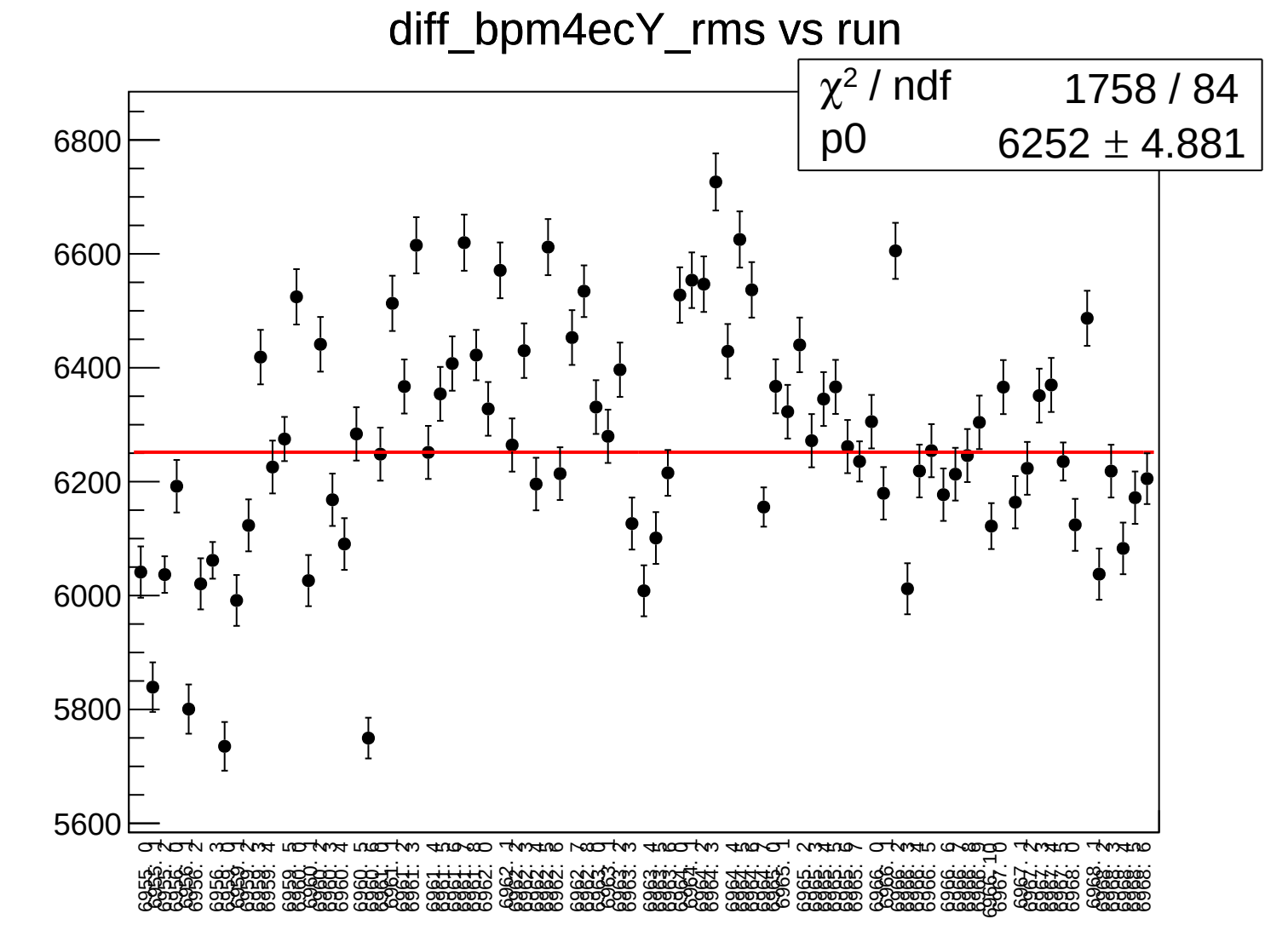

diff_bpm4ecX_mean vs run
$\chi^2$ / ndf 94.15 / 84
p0 −2.039 ± 11.6
400
200
0
−200
−400
pull
Entries 85
Mean −47.85
Std Dev 0
3
2
1
0
−1
−2

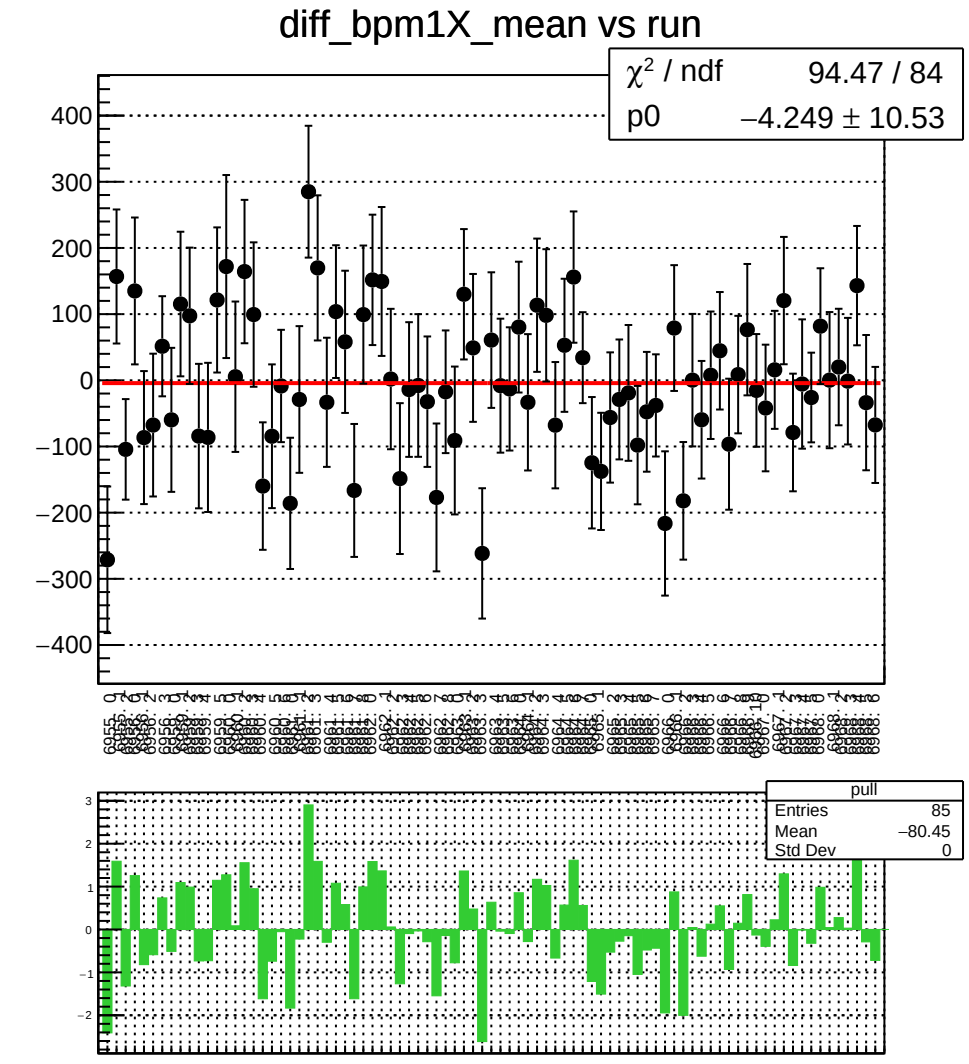

pull1D
Entries 85
Mean 0.01081
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

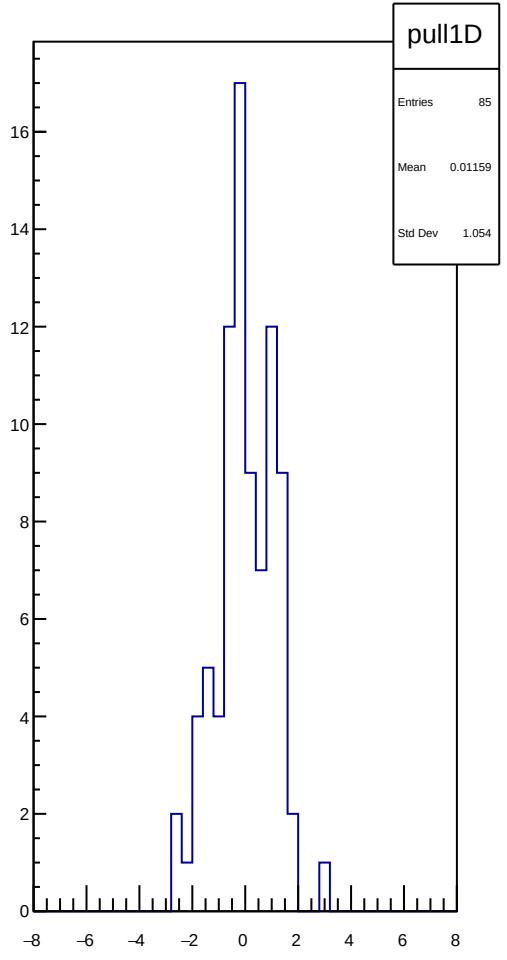

diff_bpm4ecX_rms vs run
χ² / ndf 1.017e+04 / 84
p0 1.048e+04 ± 8.202
14000
13000
12000
11000
10000
9000

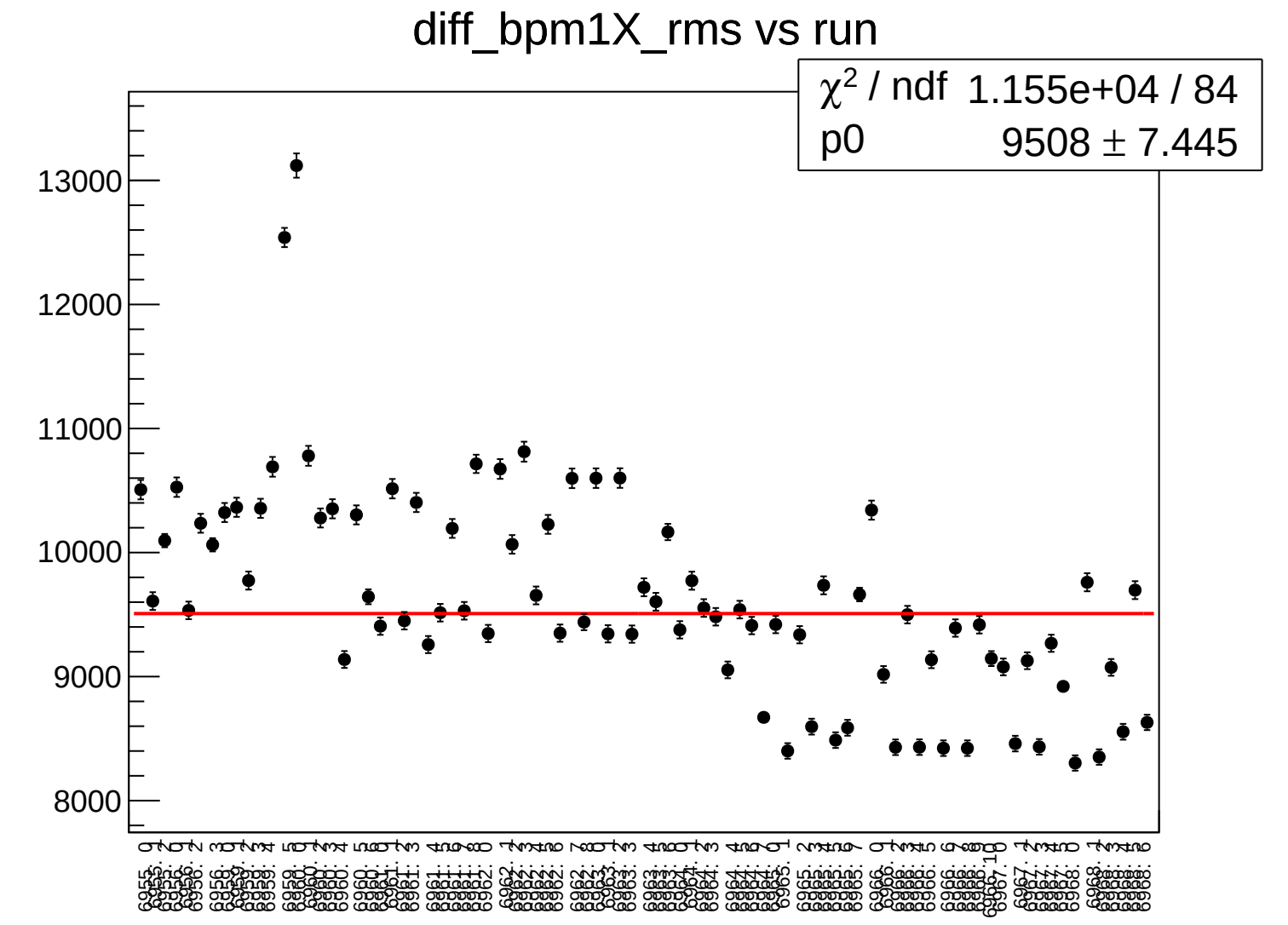

diff_bpm4ecY_mean vs run
χ² / ndf 81.67 / 84
p0 5.123 ± 6.902
200
100
0
−100
−200
pull
Entries 85
Mean 353.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

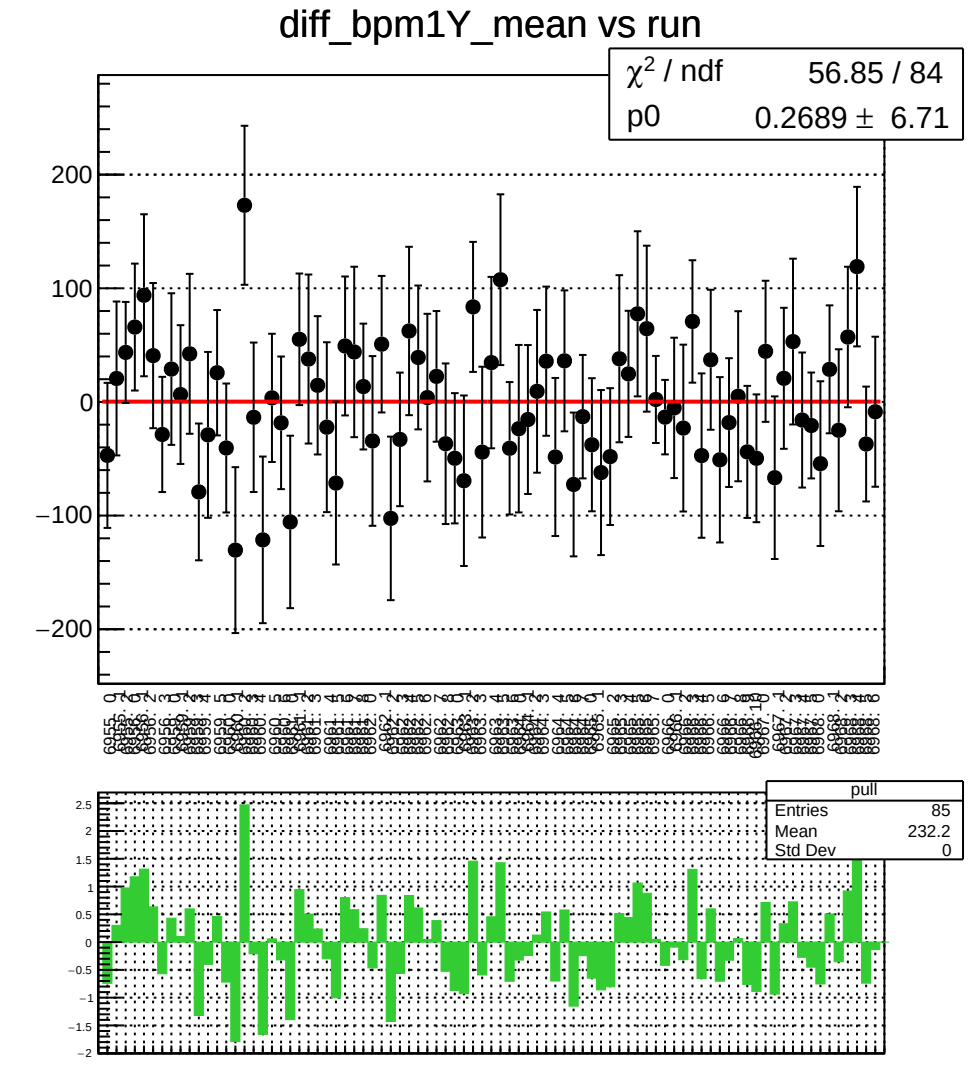

pull1D
Entries 85
Mean −0.007356
Std Dev 0.9802
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

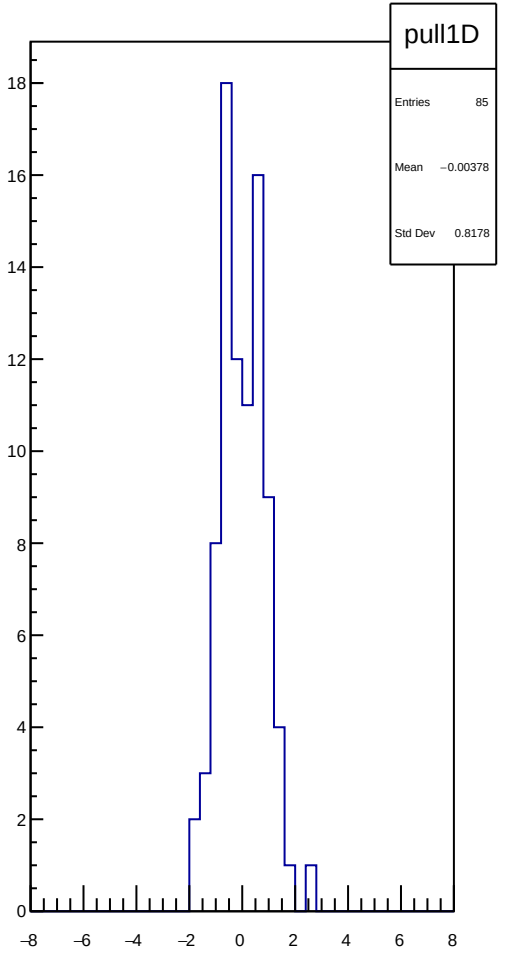

diff_bpm4ecY_rms vs run
χ² / ndf 1758 / 84
p0 6252 ± 4.881
6800
6600
6400
6200
6000
5800
5600

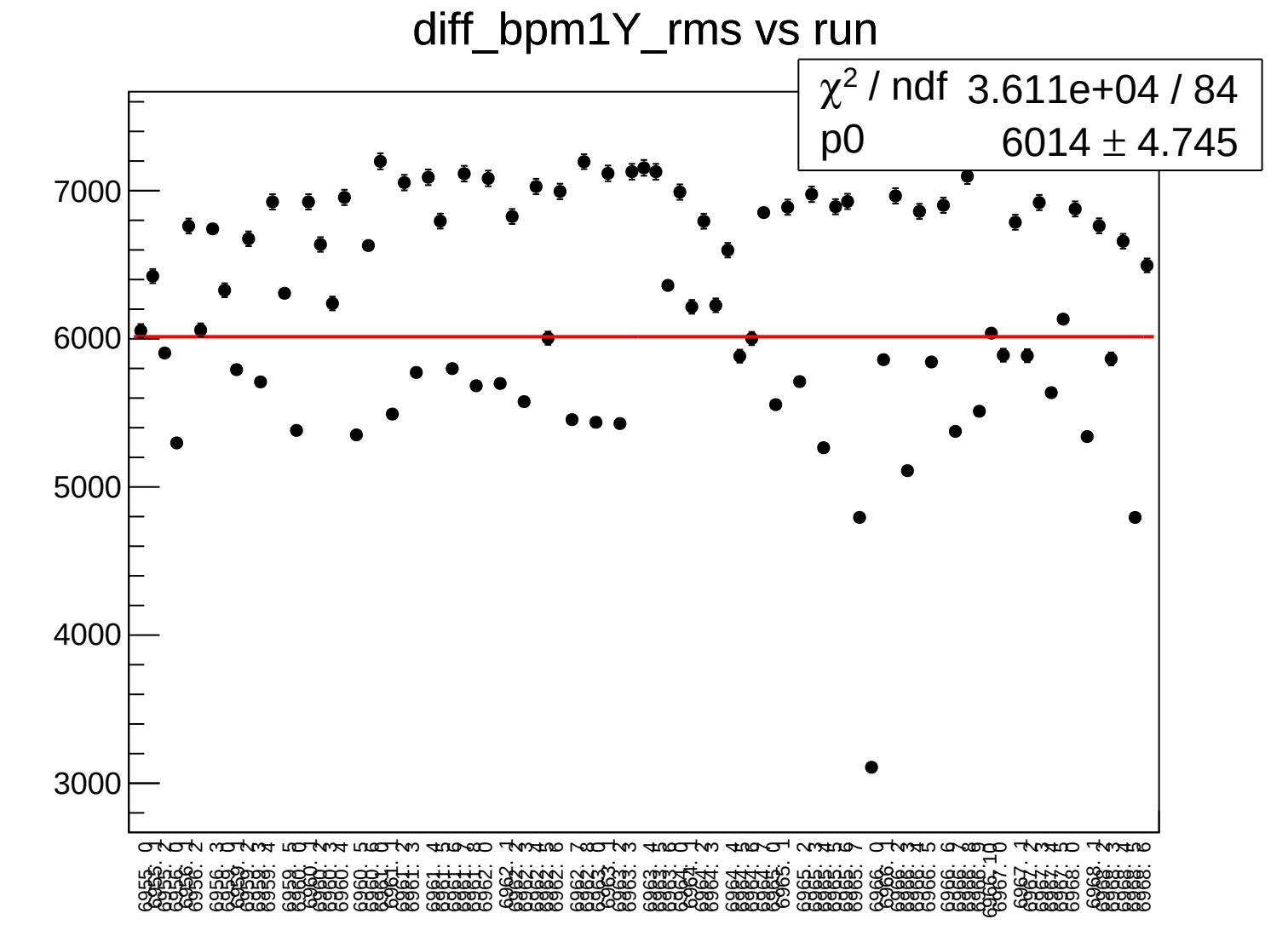

diff_bpm1X_mean vs run
χ² / ndf 94.47 / 84
p0 −4.249 ± 10.53
pull
Entries 85
Mean −80.45
Std Dev 0

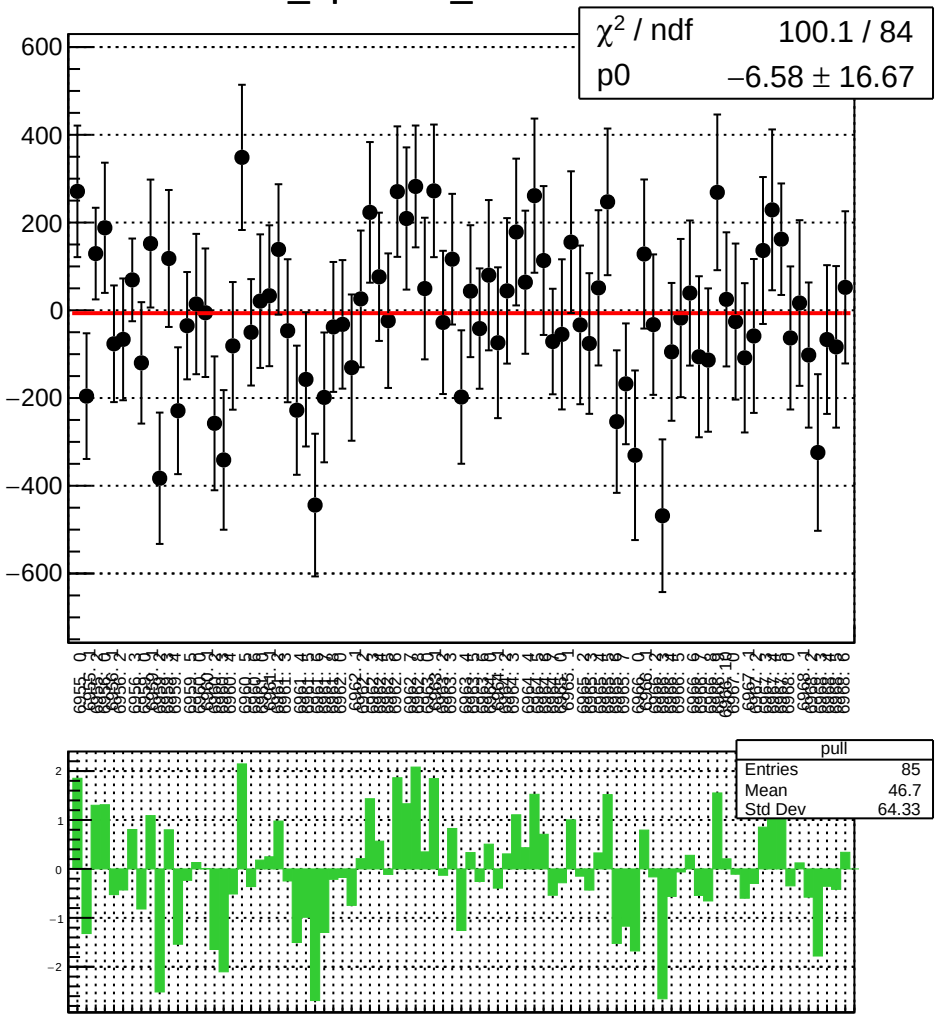

pull1D
Entries 85
Mean 0.01159
Std Dev 1.054

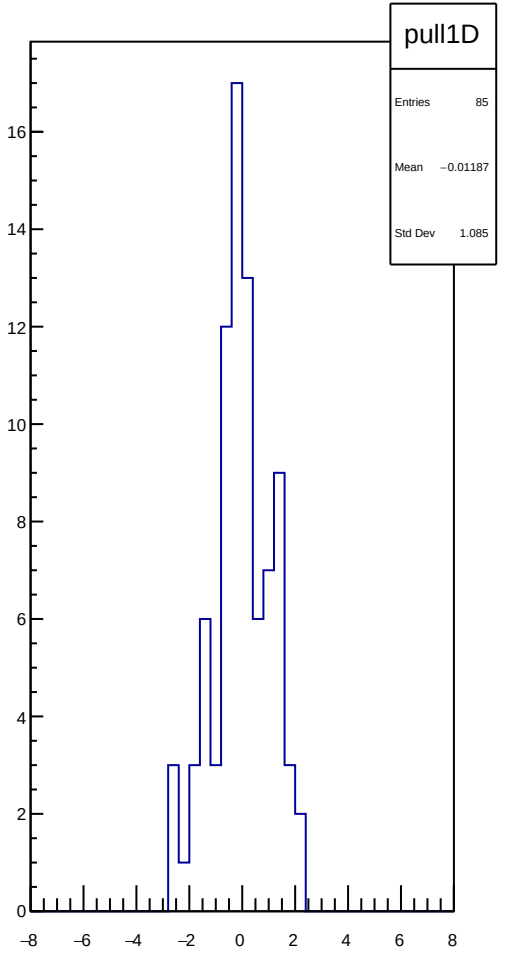

diff_bpm1X_rms vs run
χ² / ndf 1.155e+04 / 84
p0 9508 ± 7.445
13000
12000
11000
10000
9000
8000

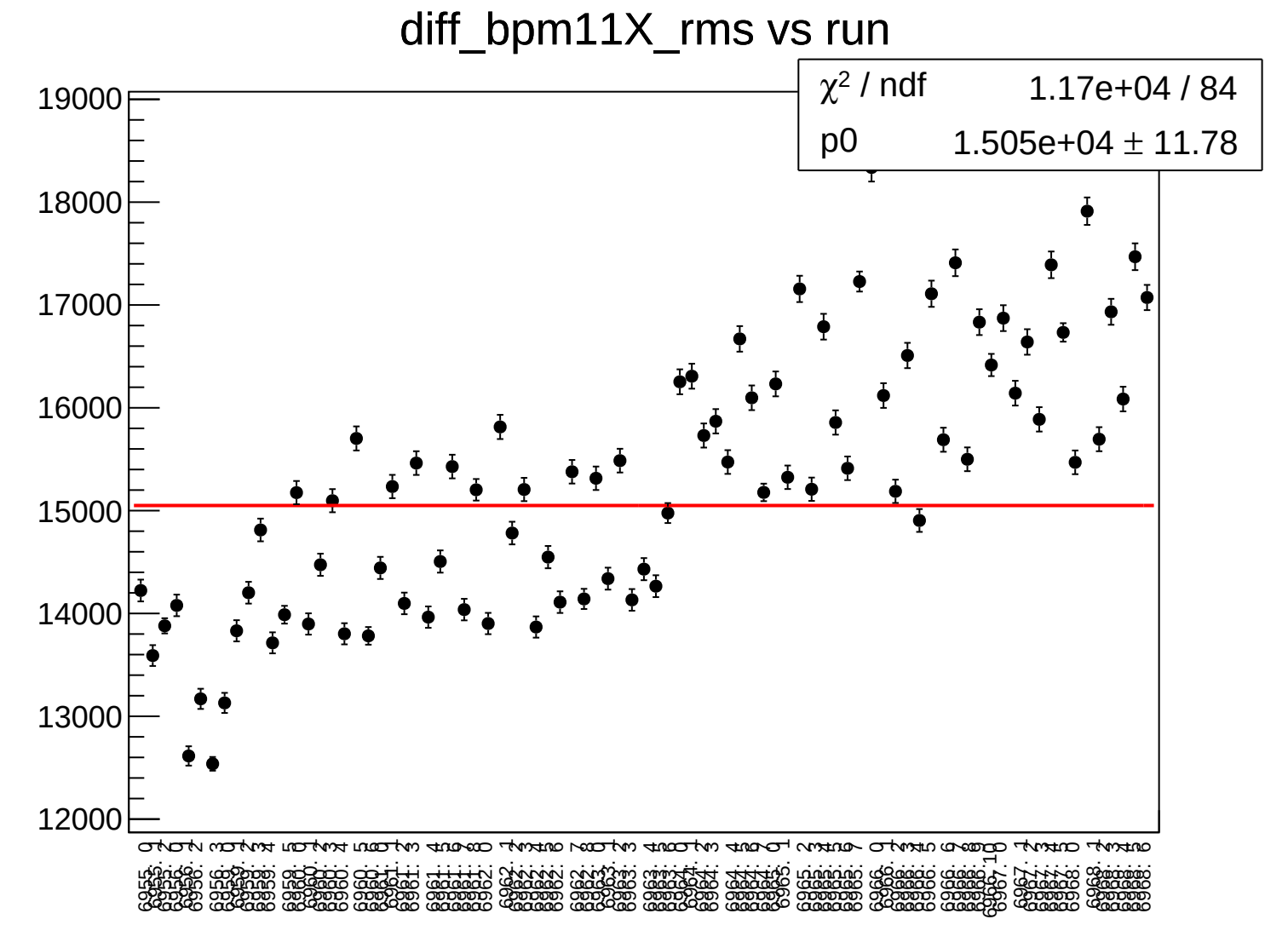

diff_bpm1Y_mean vs run
χ² / ndf 56.85 / 84
p0 0.2689 ± 6.71
200
100
0
−100
−200
pull
Entries 85
Mean 232.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

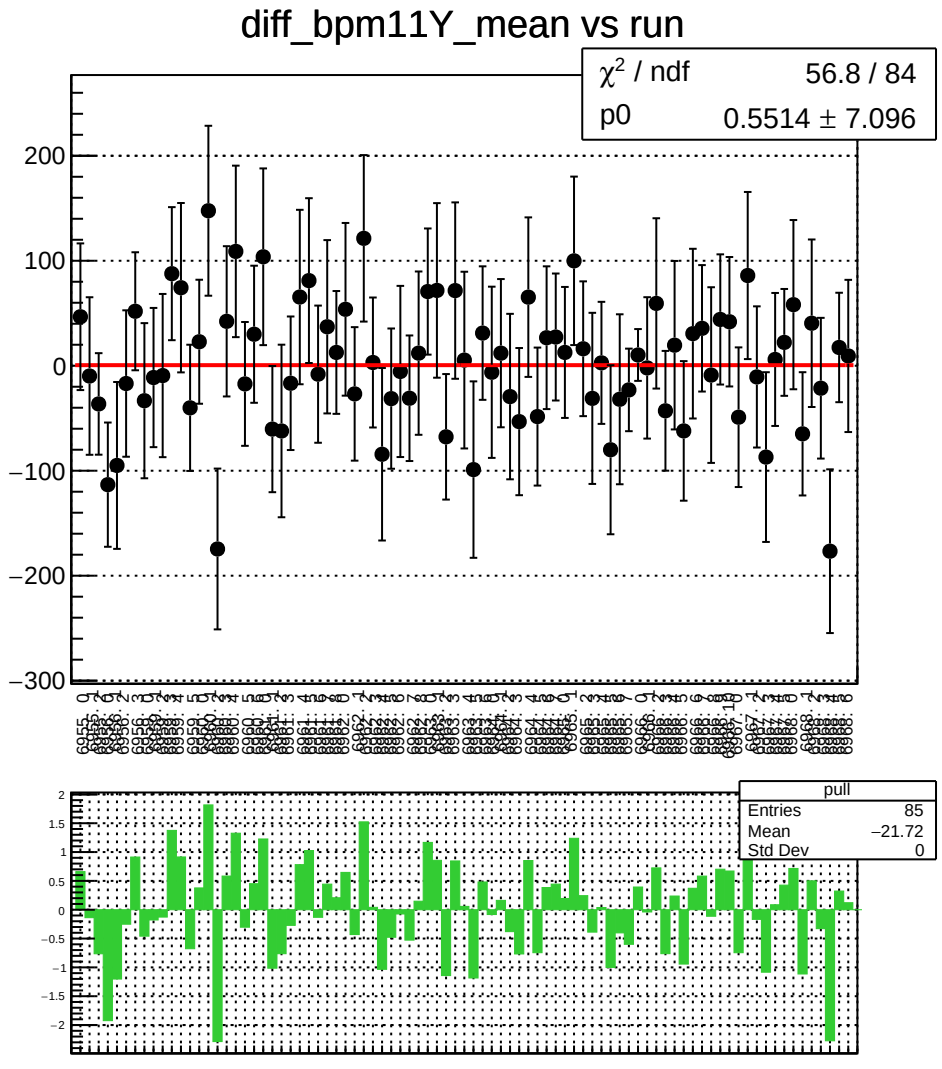

pull1D
Entries 85
Mean −0.00378
Std Dev 0.8178
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

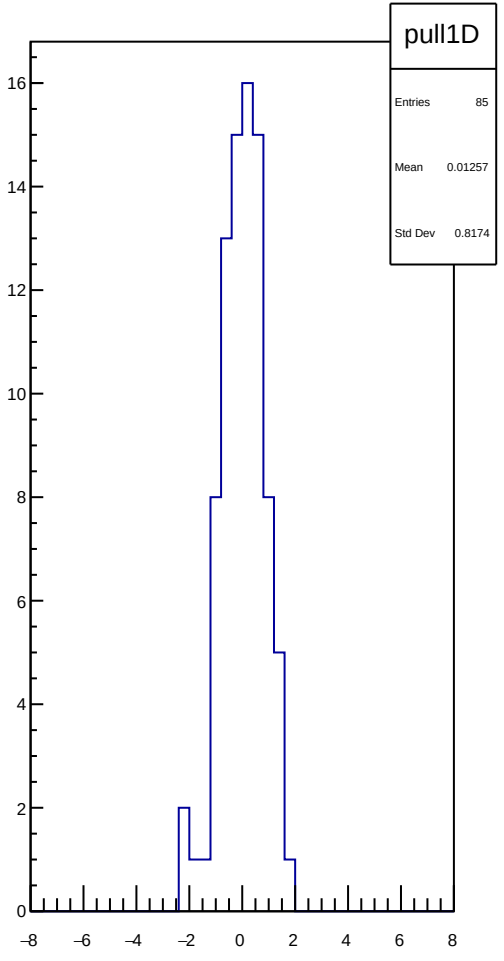

diff_bpm1Y_rms vs run
$\chi^2$ / ndf 3.611e+04 / 84
p0 6014 ± 4.745
7000
6000
5000
4000
3000

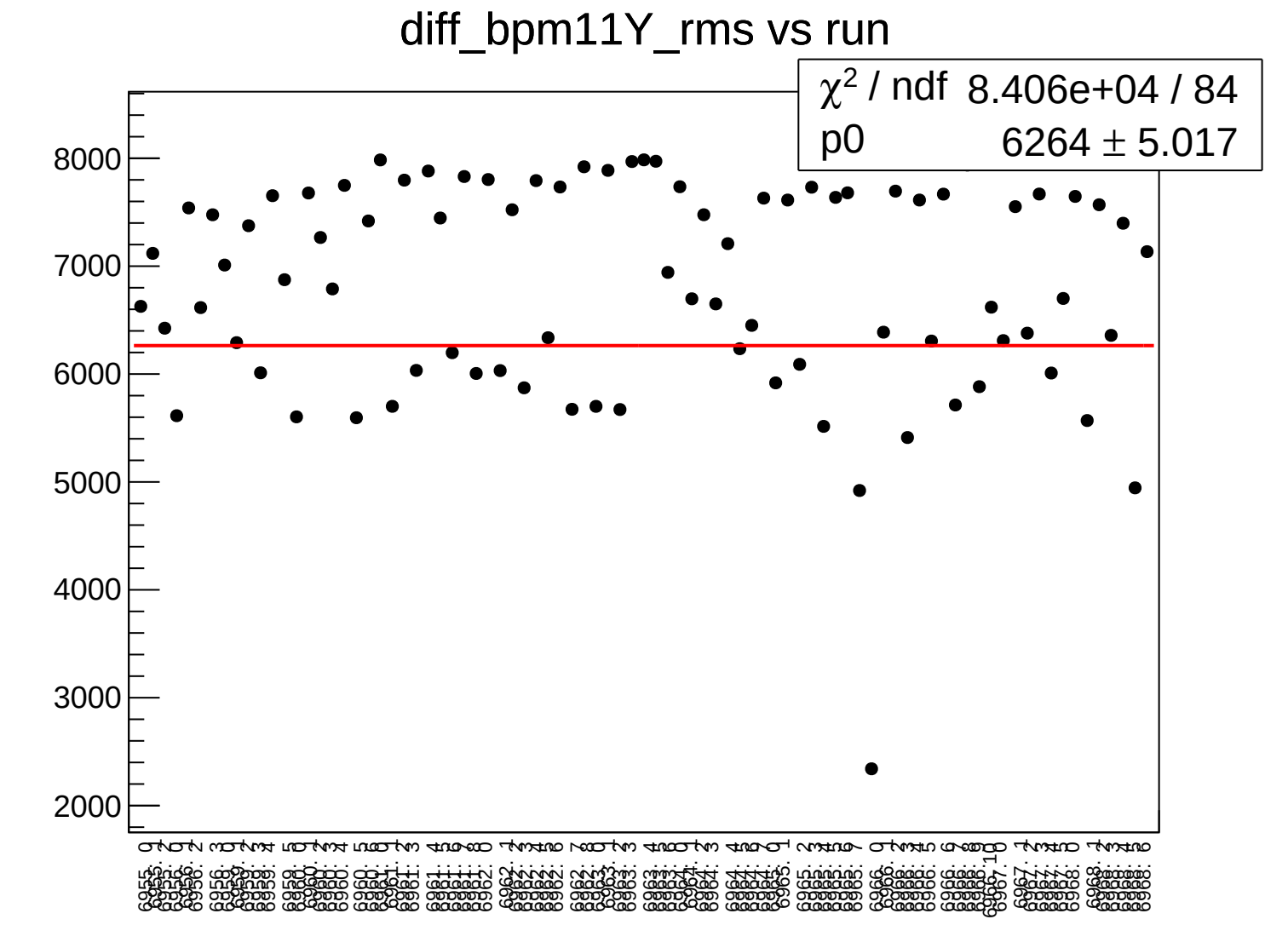

diff_bpm11X_mean vs run
χ² / ndf 100.1 / 84
p0 −6.58 ± 16.67
pull
Entries 85
Mean 46.7
Std Dev 64.33

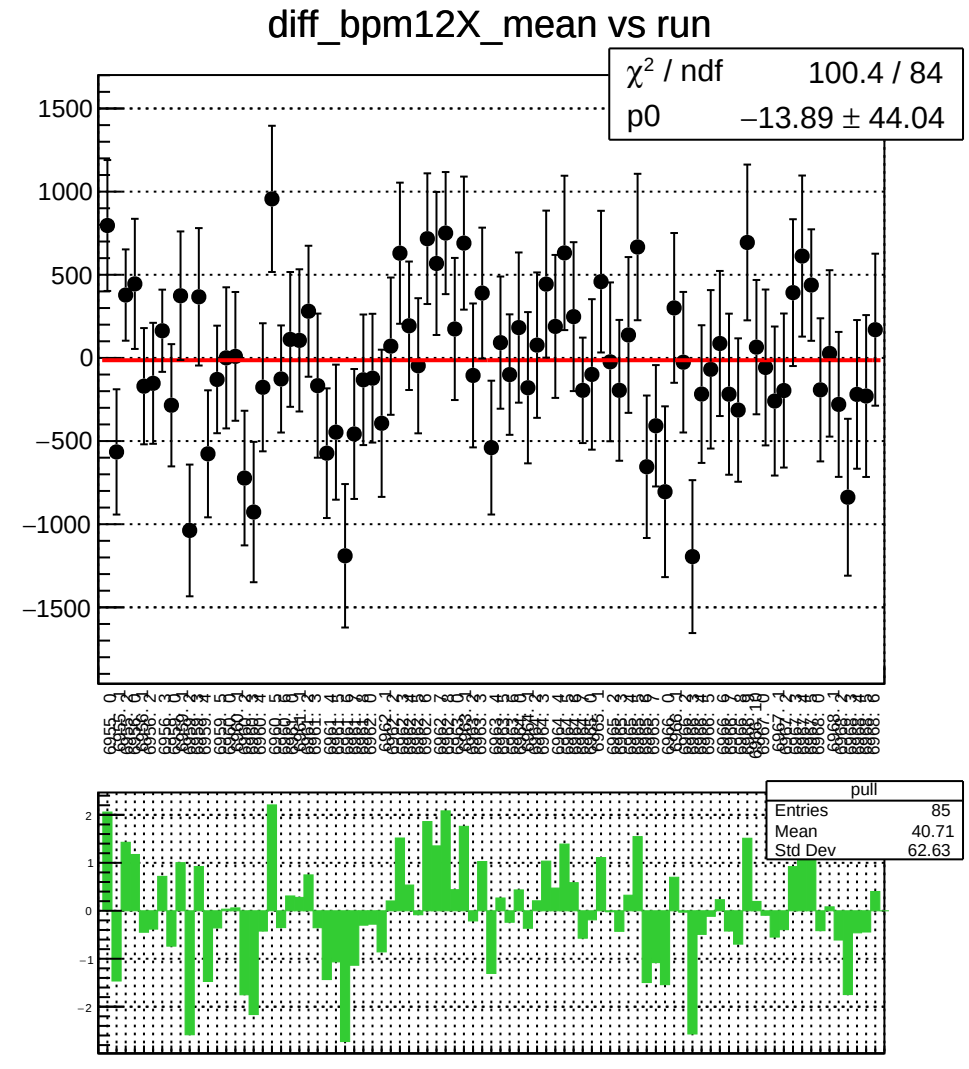

pull1D
Entries 85
Mean −0.01187
Std Dev 1.085

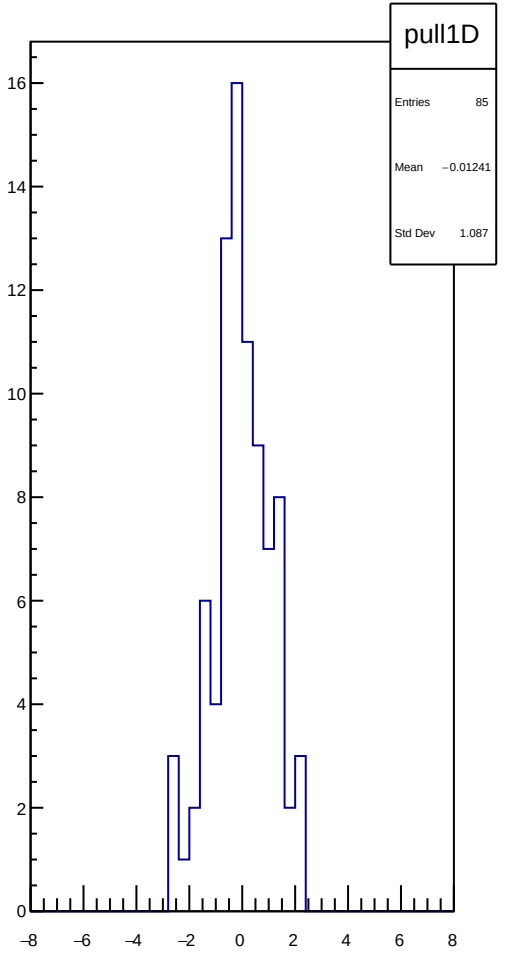

diff_bpm11X_rms vs run
χ² / ndf 1.17e+04 / 84
p0 1.505e+04 ± 11.78
19000
18000
17000
16000
15000
14000
13000
12000

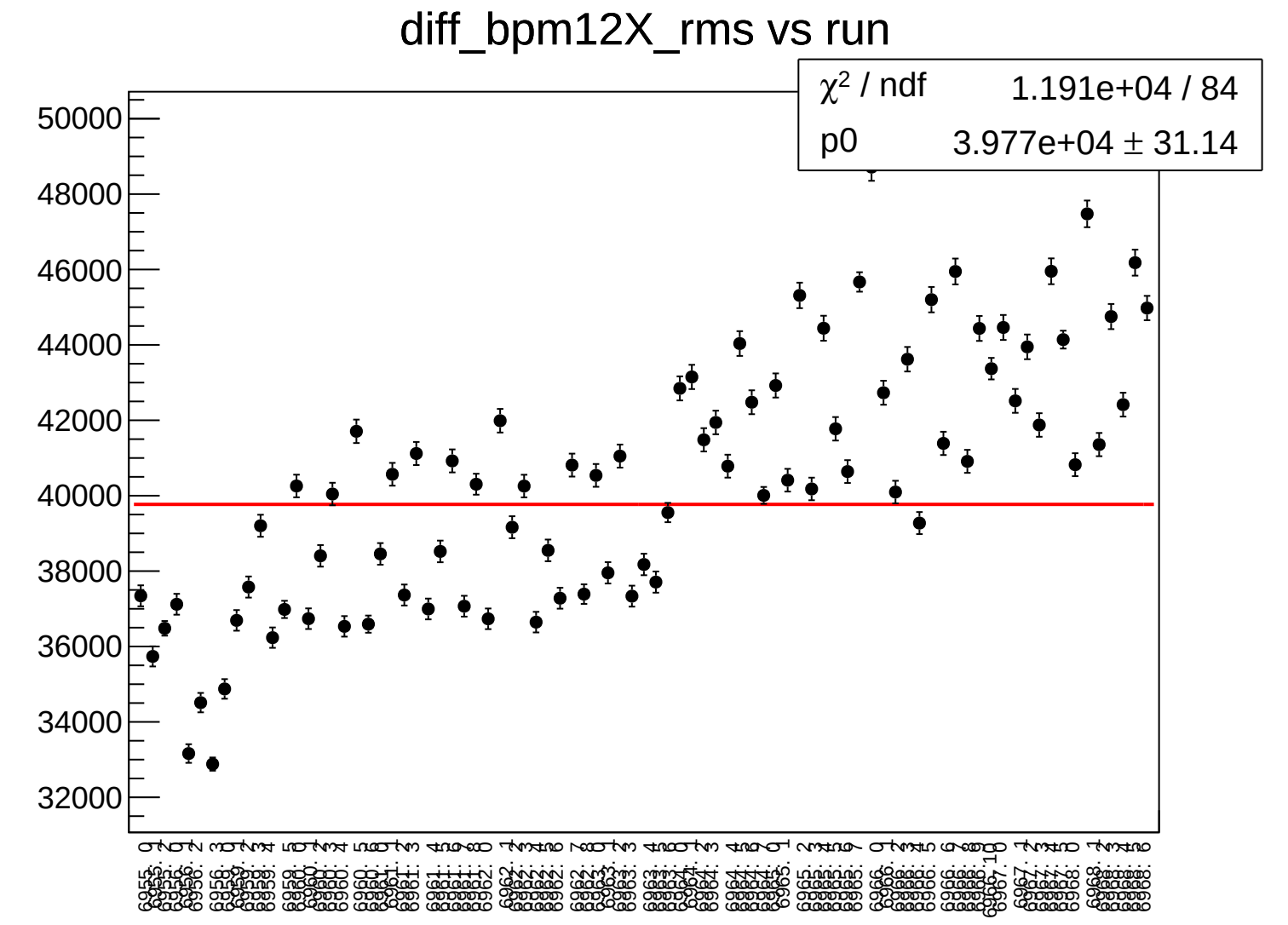

diff_bpm11Y_mean vs run
χ² / ndf 56.8 / 84
p0 0.5514 ± 7.096
pull
Entries 85
Mean −21.72
Std Dev 0

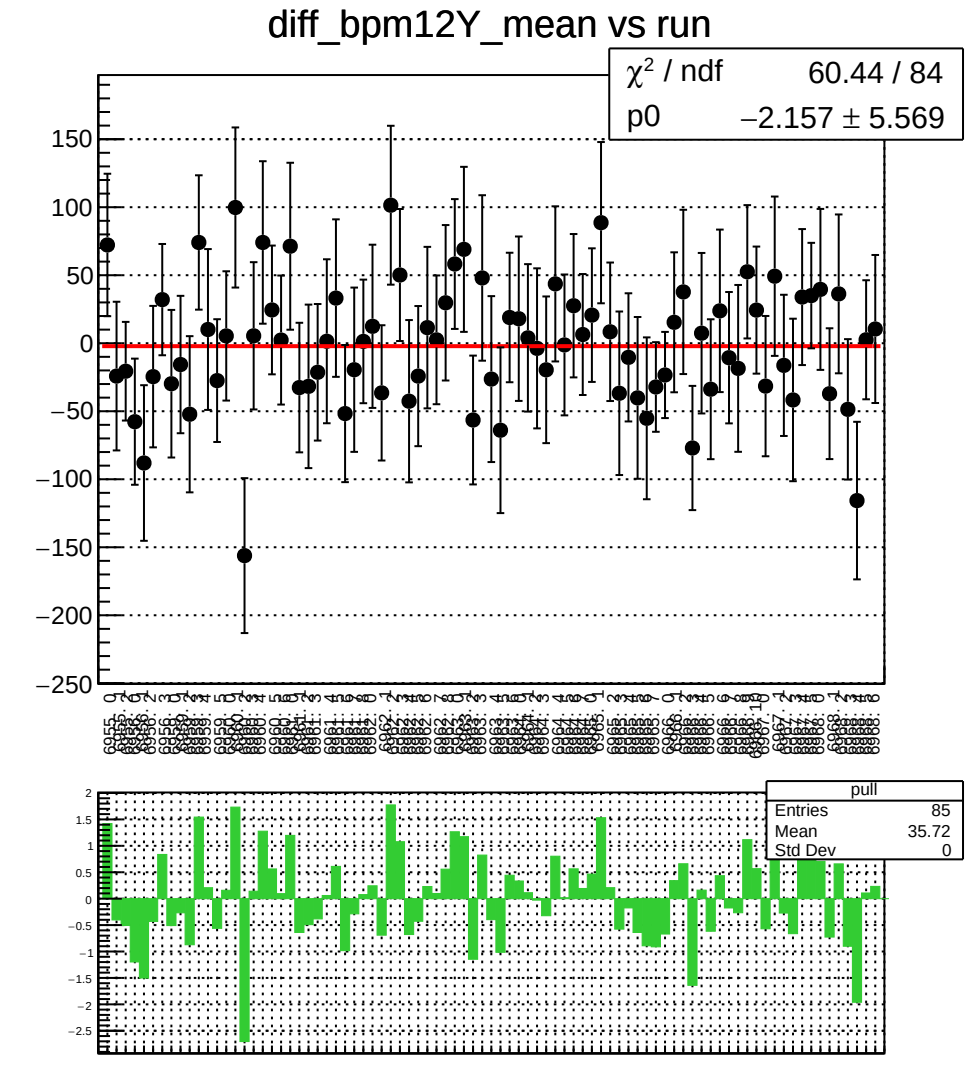

pull1D
Entries 85
Mean 0.01257
Std Dev 0.8174

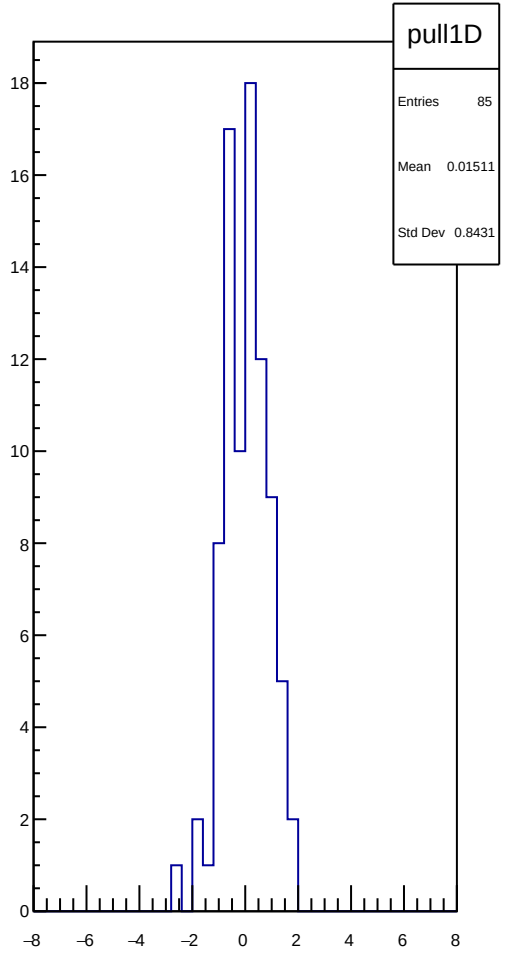

diff_bpm11Y_rms vs run
$\chi^2$ / ndf 8.406e+04 / 84
p0 6264 ± 5.017
8000
7000
6000
5000
4000
3000
2000

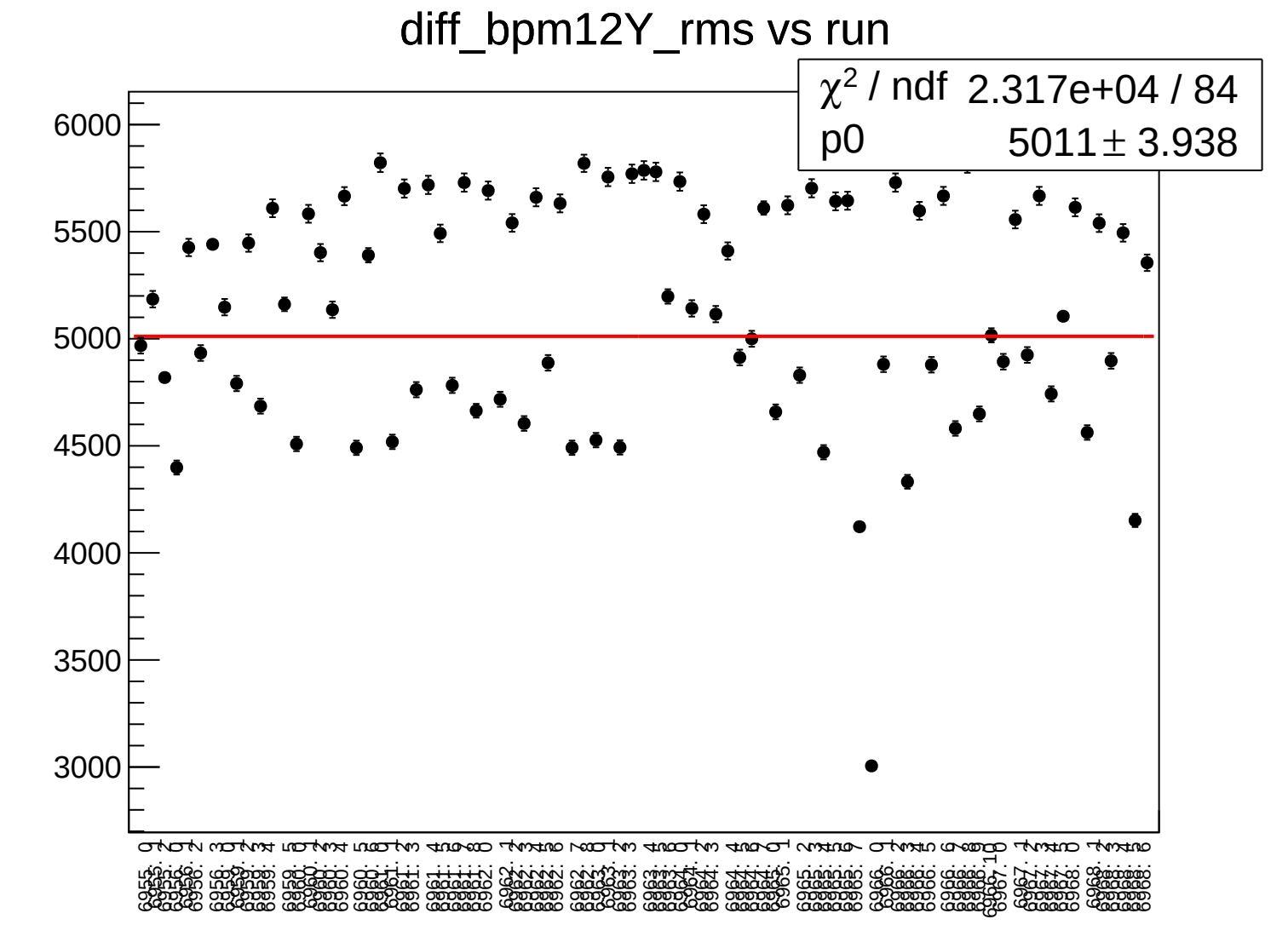

diff_bpm12X_mean vs run
χ² / ndf 100.4 / 84
p0 −13.89 ± 44.04
pull
Entries 85
Mean 40.71
Std Dev 62.63

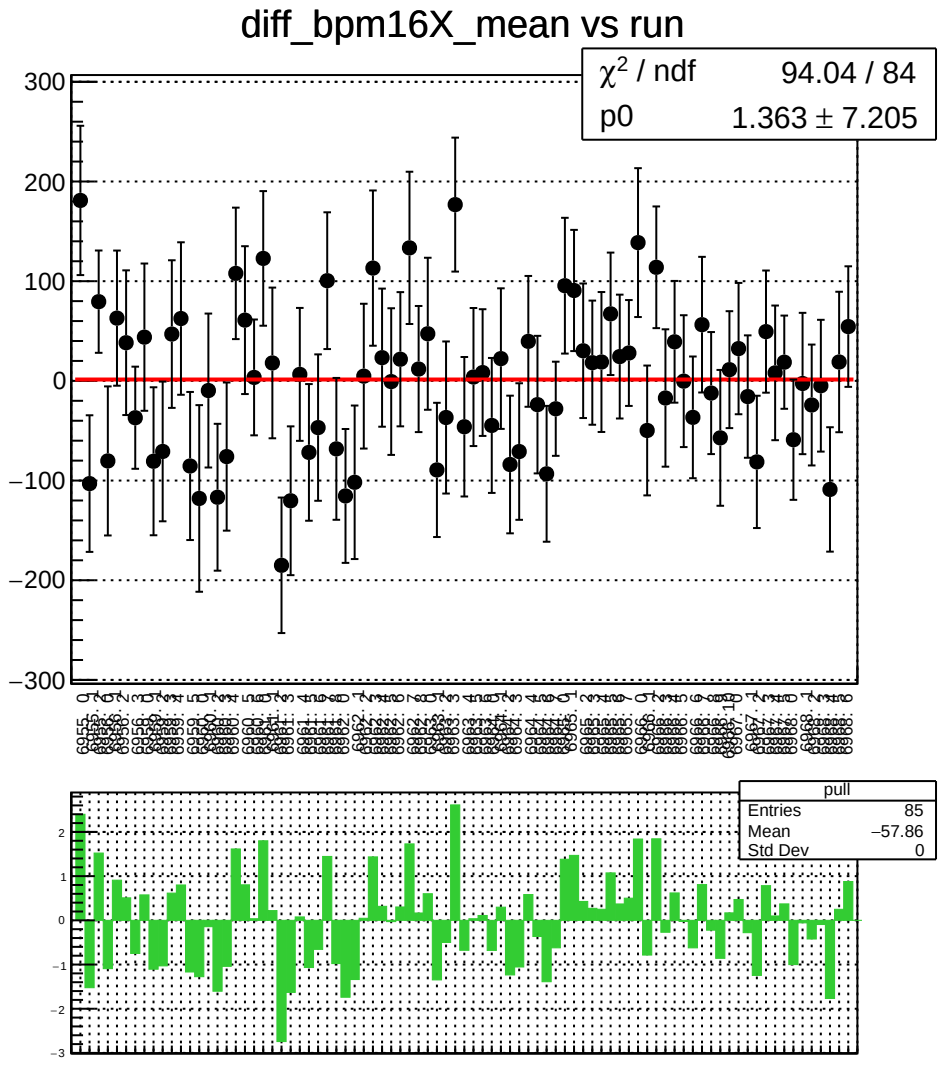

pull1D
Entries 85
Mean −0.01241
Std Dev 1.087

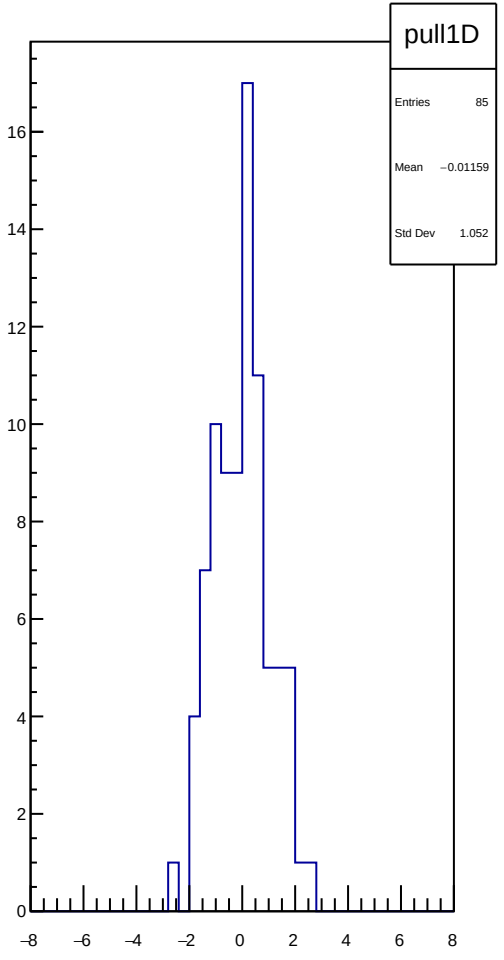

diff_bpm12X_rms vs run
χ² / ndf 1.191e+04 / 84
p0 3.977e+04 ± 31.14
50000
48000
46000
44000
42000
40000
38000
36000
34000
32000

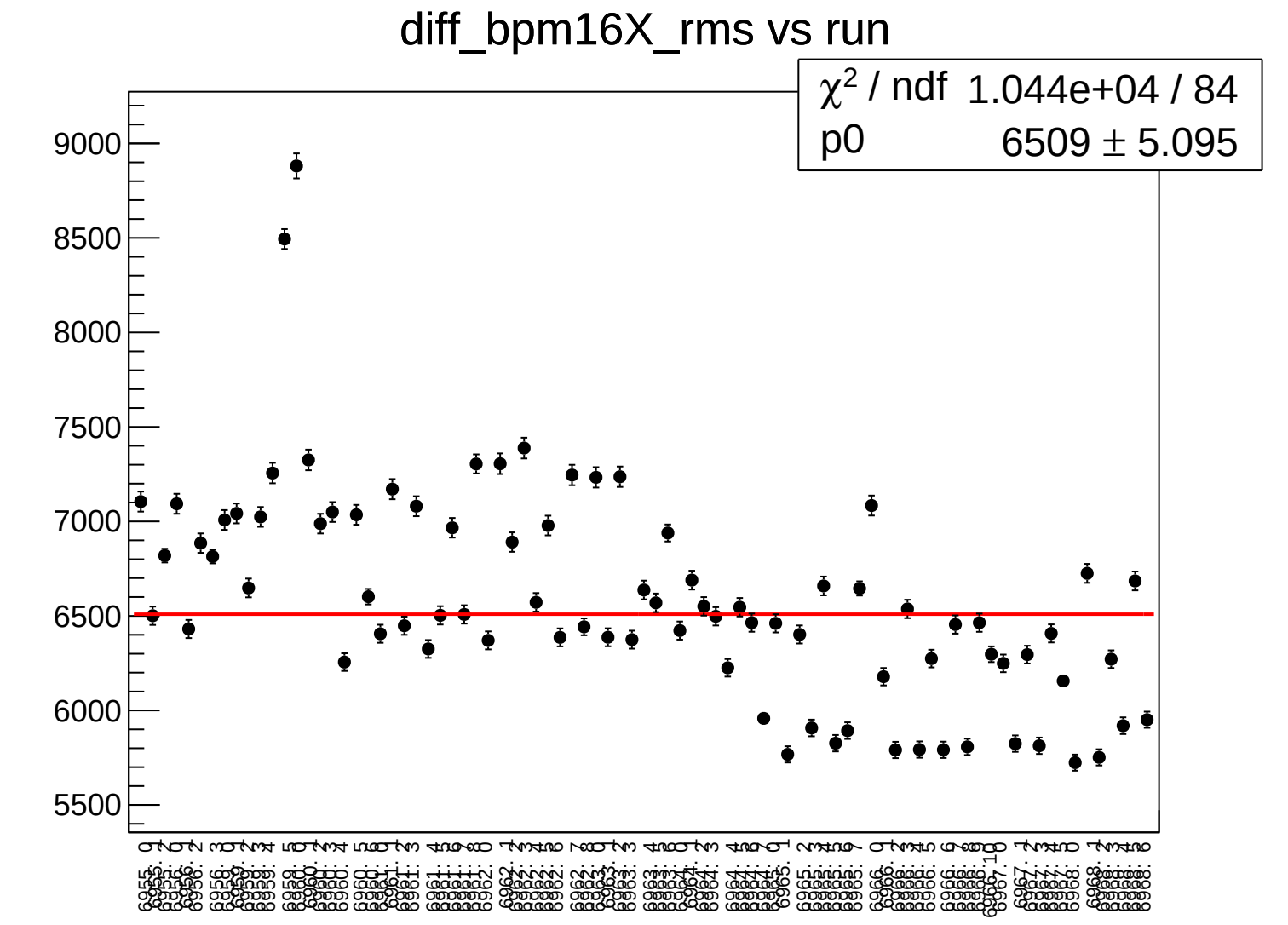

diff_bpm12Y_mean vs run
χ² / ndf 60.44 / 84
p0 −2.157 ± 5.569
pull
Entries 85
Mean 35.72
Std Dev 0

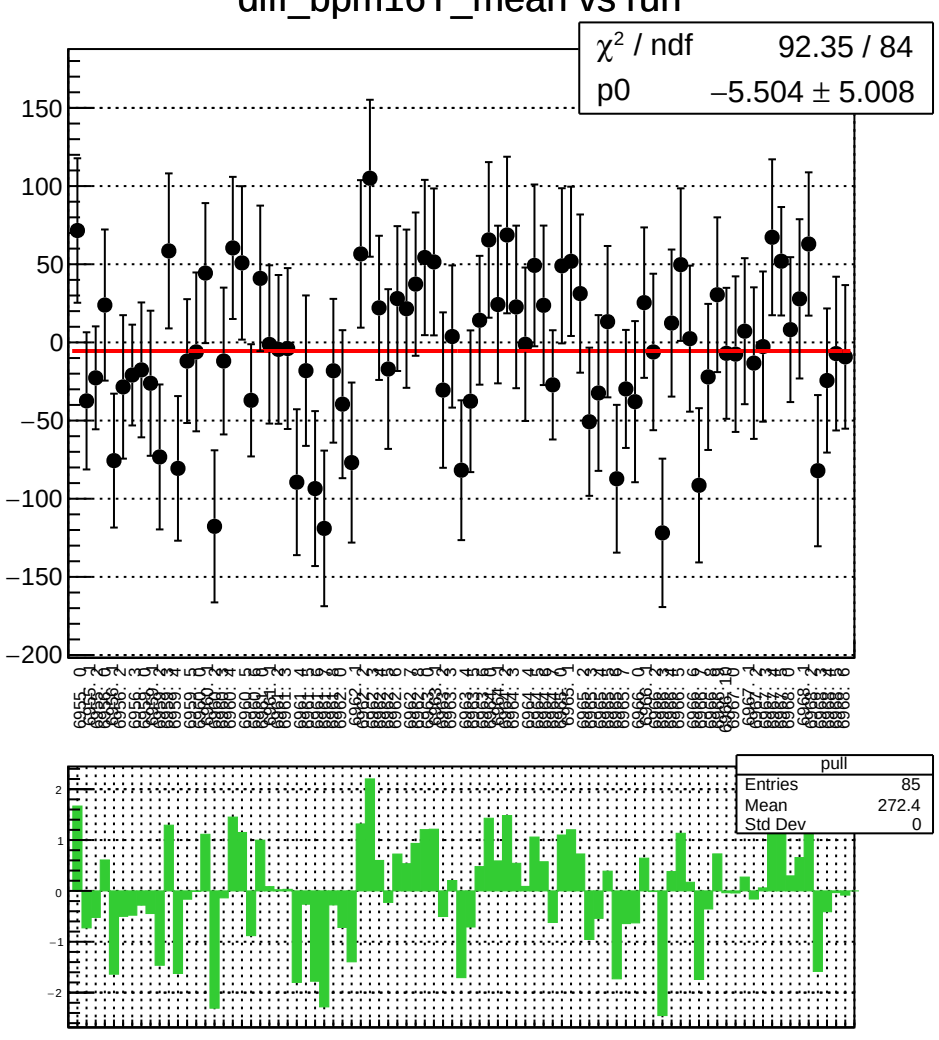

pull1D
Entries 85
Mean 0.01511
Std Dev 0.8431

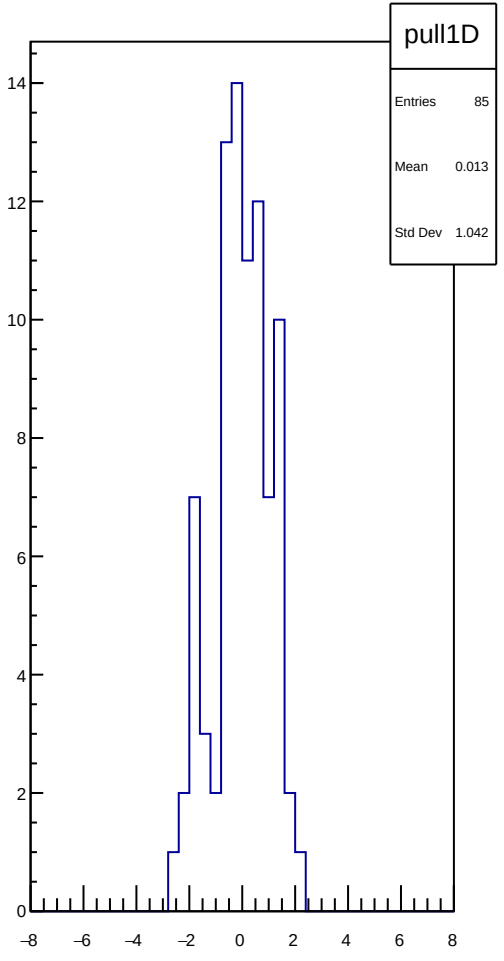

diff_bpm12Y_rms vs run
χ² / ndf 2.317e+04 / 84
p0 5011 ± 3.938
6000
5500
5000
4500
4000
3500
3000

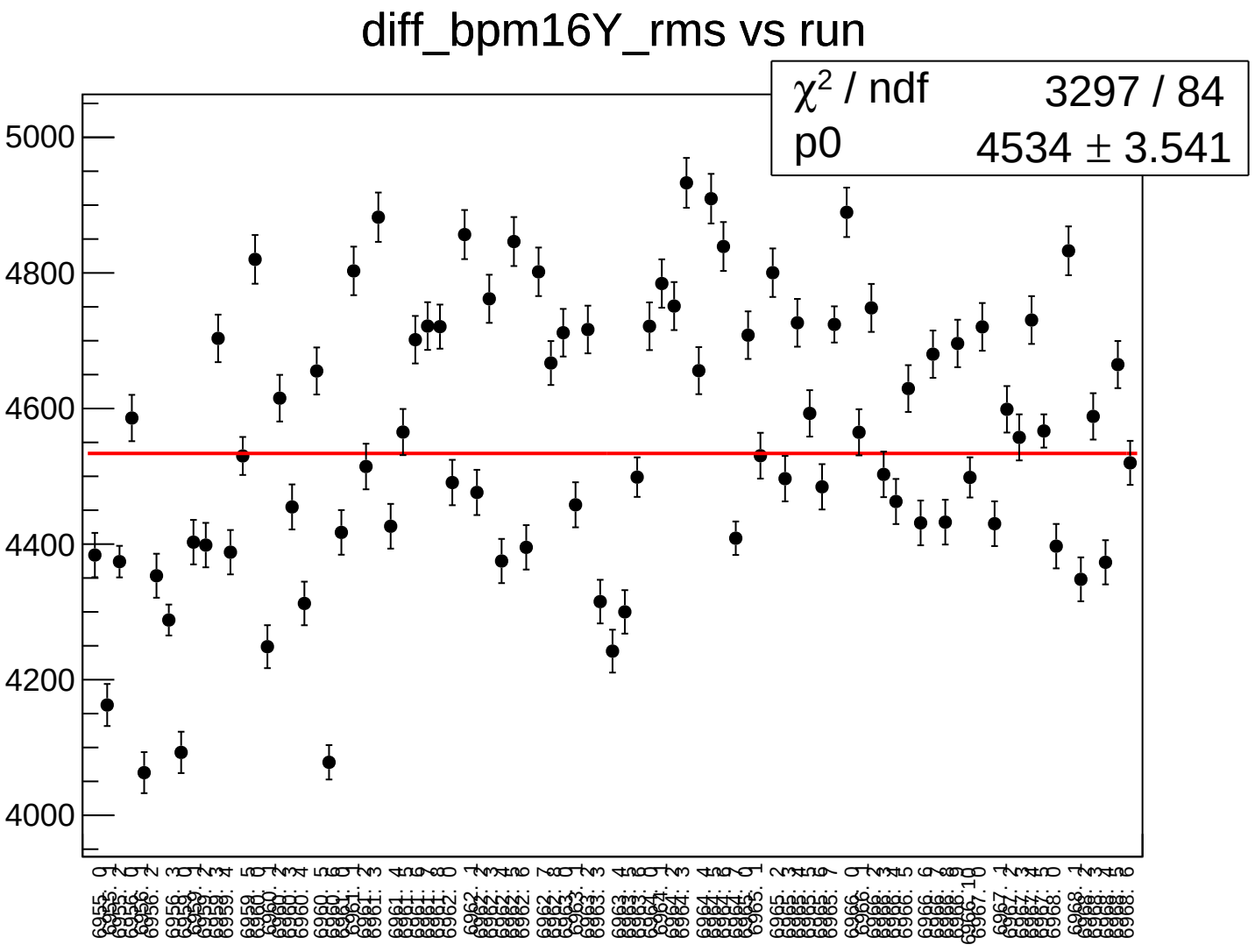

diff_bpm16X_mean vs run
χ² / ndf 94.04 / 84
p0 1.363 ± 7.205
pull
Entries 85
Mean −57.86
Std Dev 0

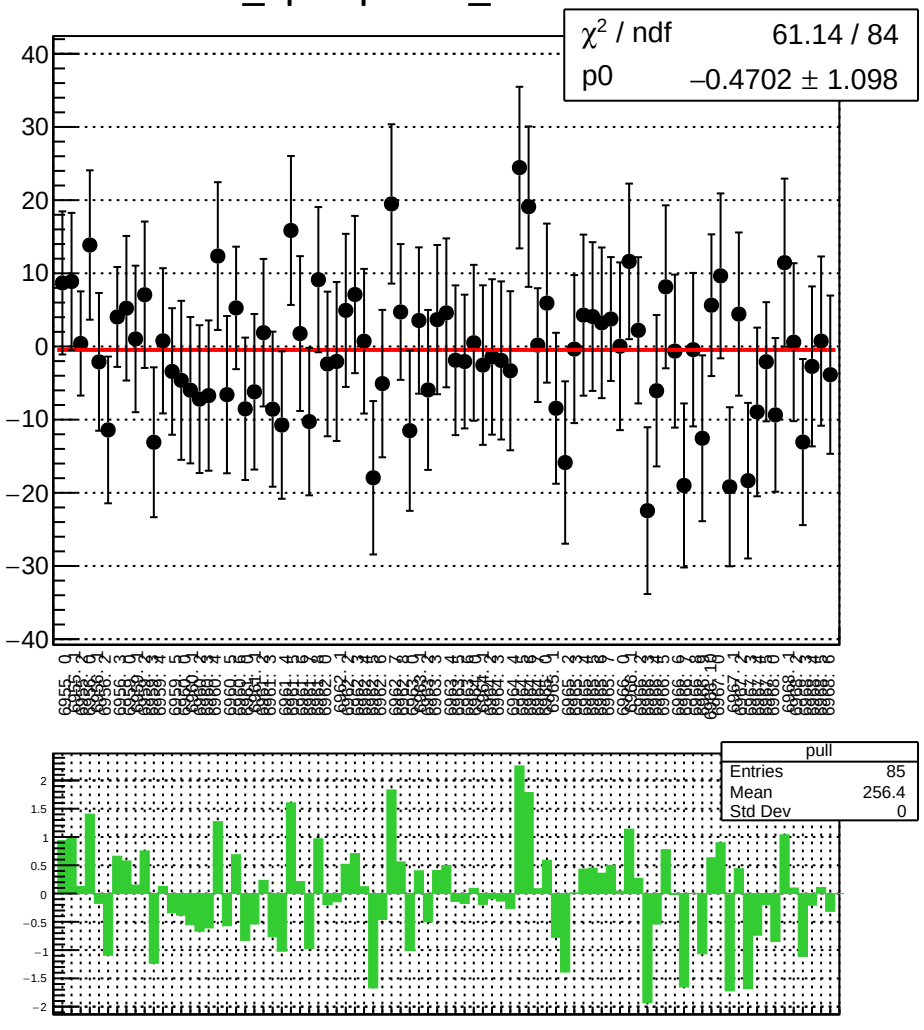

pull1D
Entries 85
Mean −0.01159
Std Dev 1.052

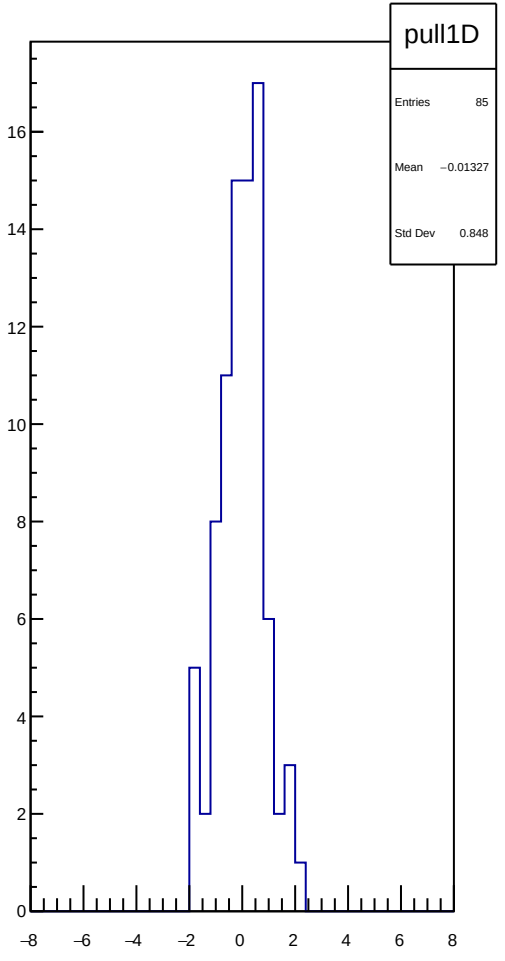

diff_bpm16X_rms vs run
$\chi^2$ / ndf 1.044e+04 / 84
p0 6509 ± 5.095
9000
8500
8000
7500
7000
6500
6000
5500

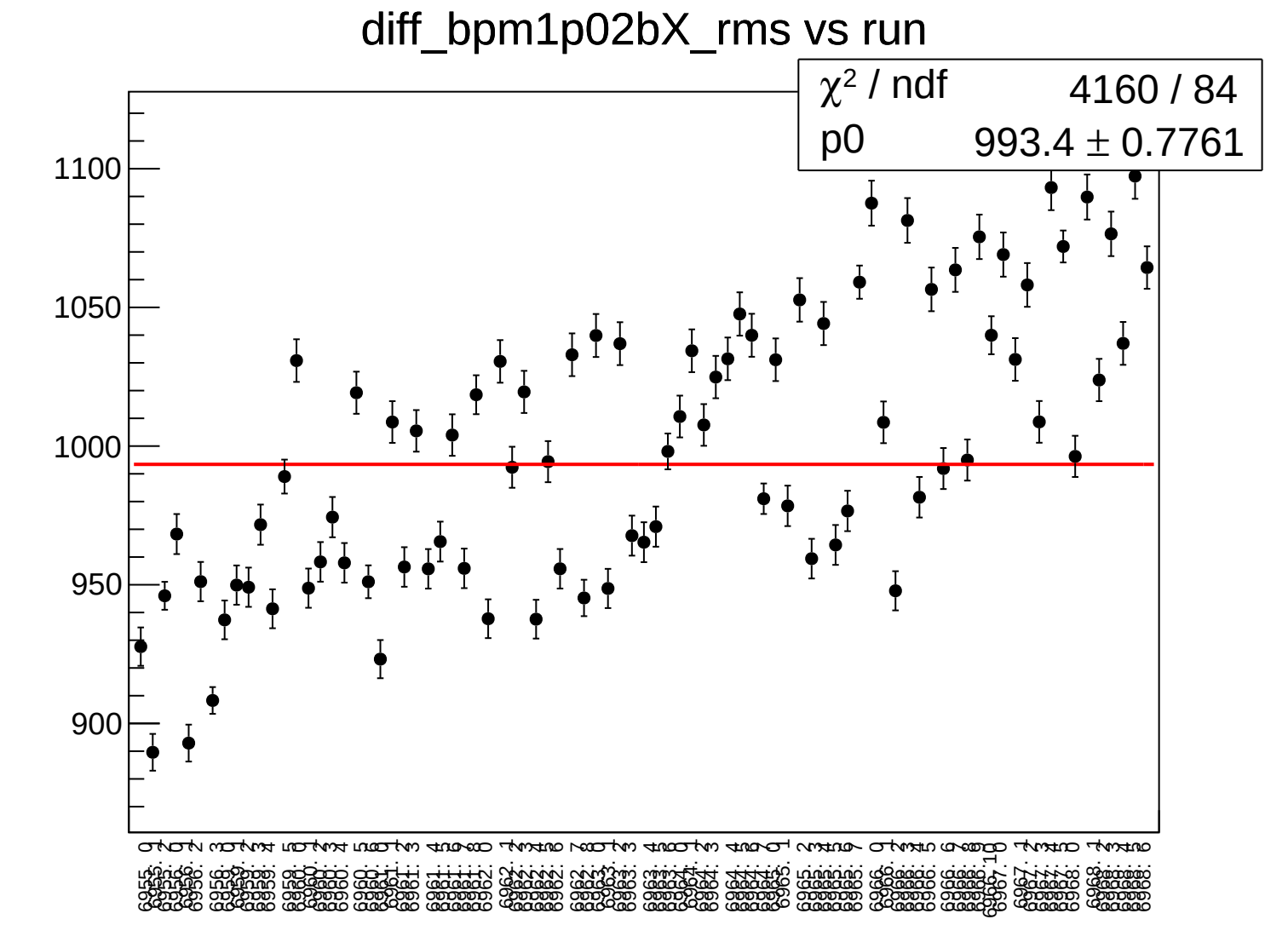

diff_bpm16Y_mean vs run
χ² / ndf 92.35 / 84
p0 −5.504 ± 5.008
pull
Entries 85
Mean 272.4
Std Dev 0

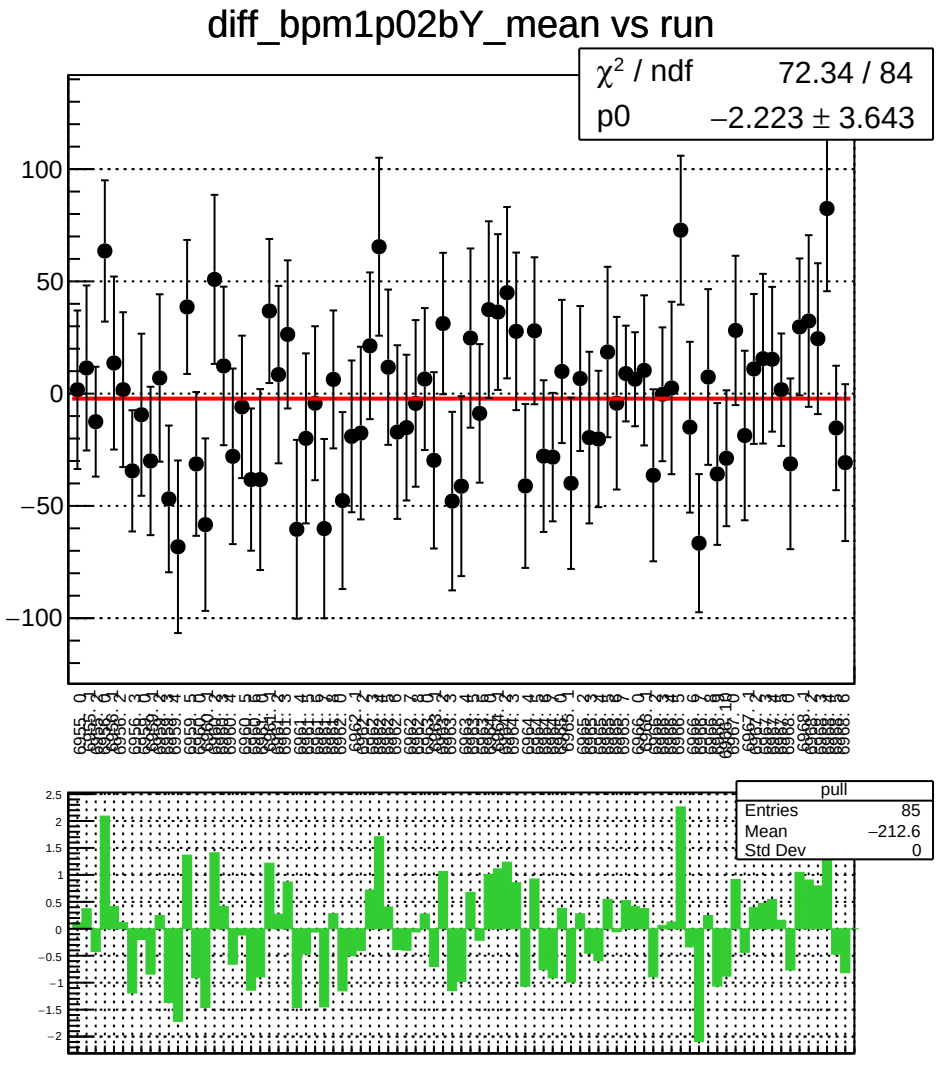

pull1D
Entries 85
Mean 0.013
Std Dev 1.042

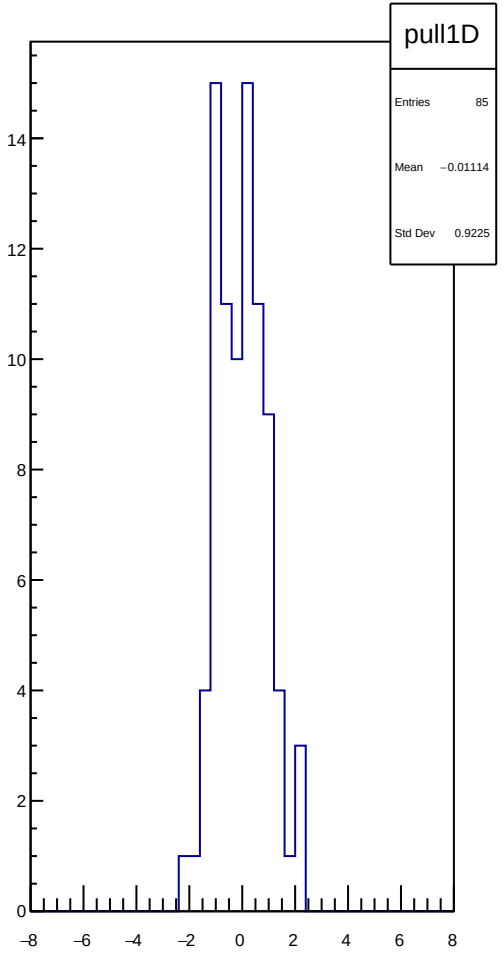

diff_bpm16Y_rms vs run
χ² / ndf 3297 / 84
p0 4534 ± 3.541
5000
4800
4600
4400
4200
4000

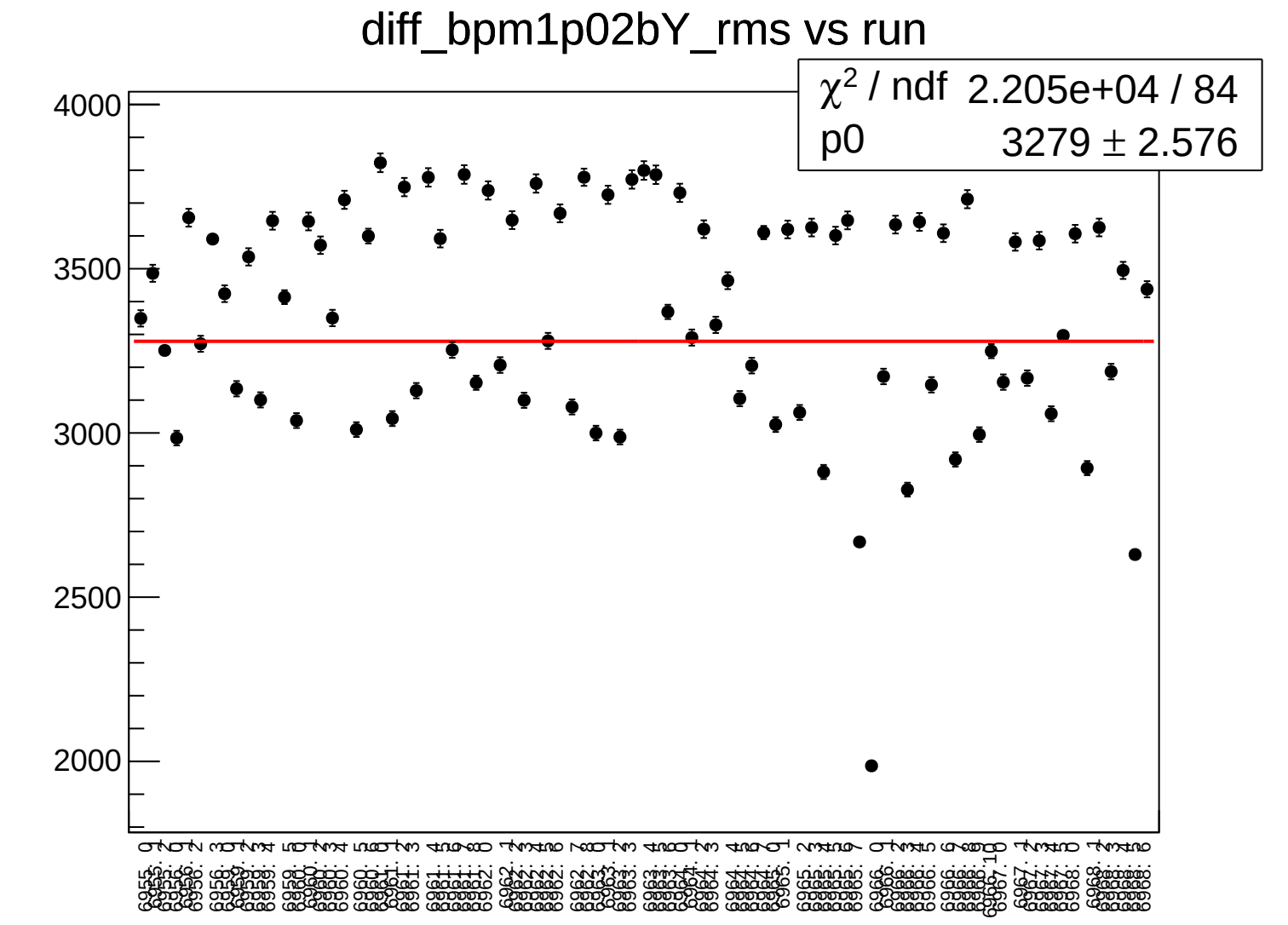

diff_bpm1p02bX_mean vs run
χ² / ndf 61.14 / 84
p0 −0.4702 ± 1.098
pull
Entries 85
Mean 256.4
Std Dev 0

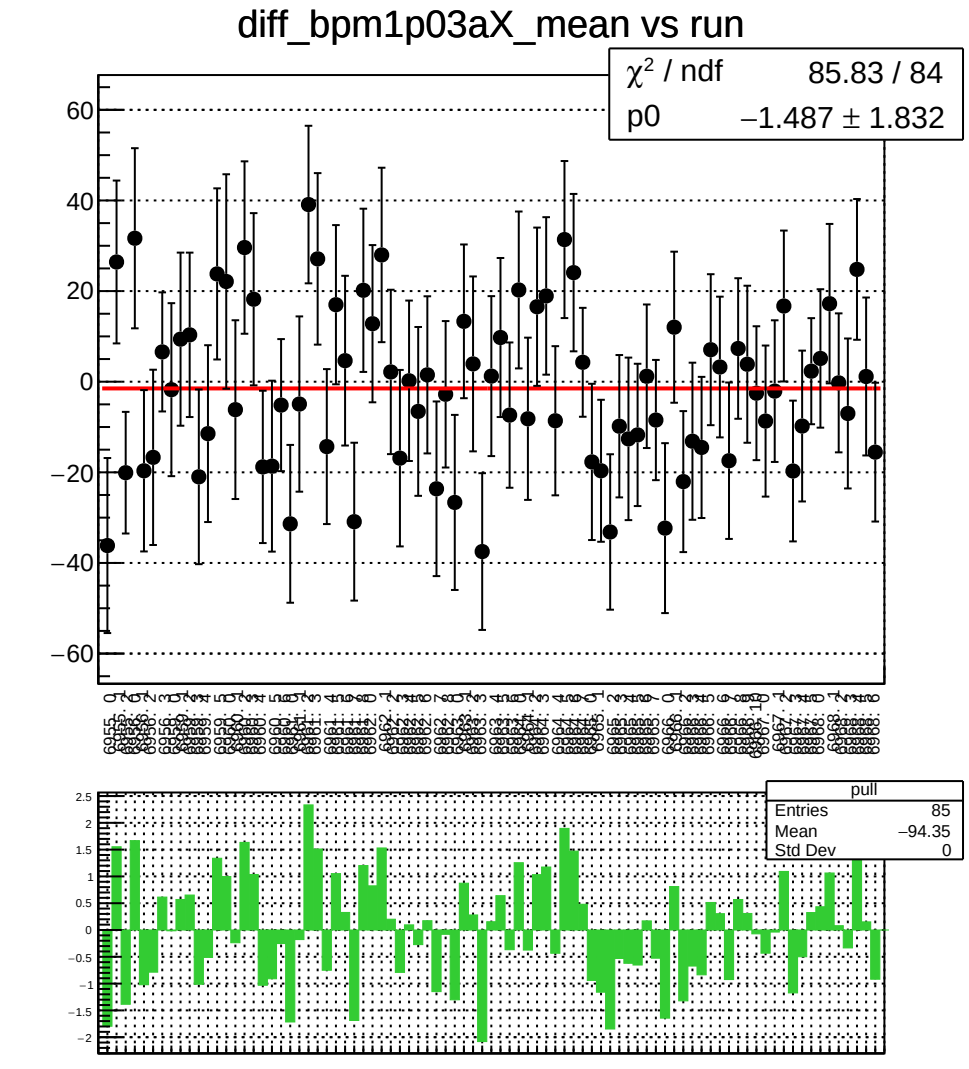

pull1D
Entries 85
Mean −0.01327
Std Dev 0.848

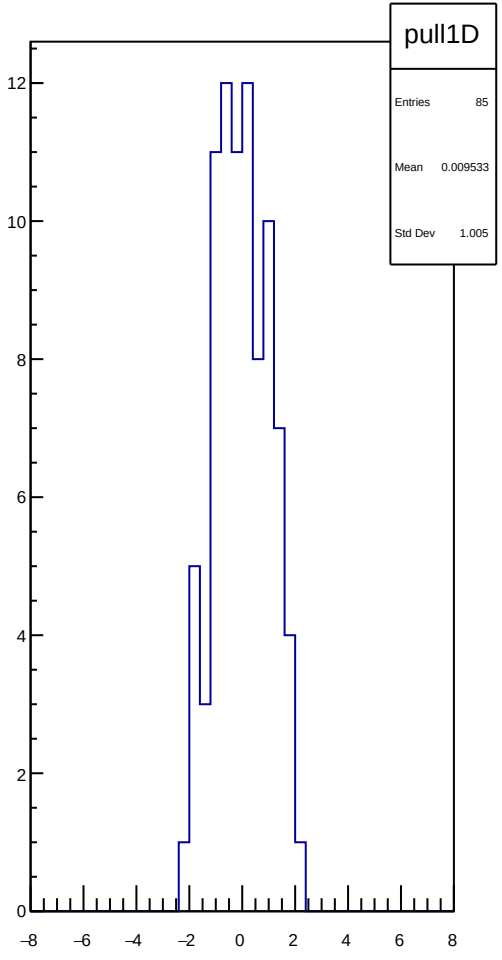

diff_bpm1p02bX_rms vs run
χ² / ndf 4160 / 84
p0 993.4 ± 0.7761
1100
1050
1000
950
900

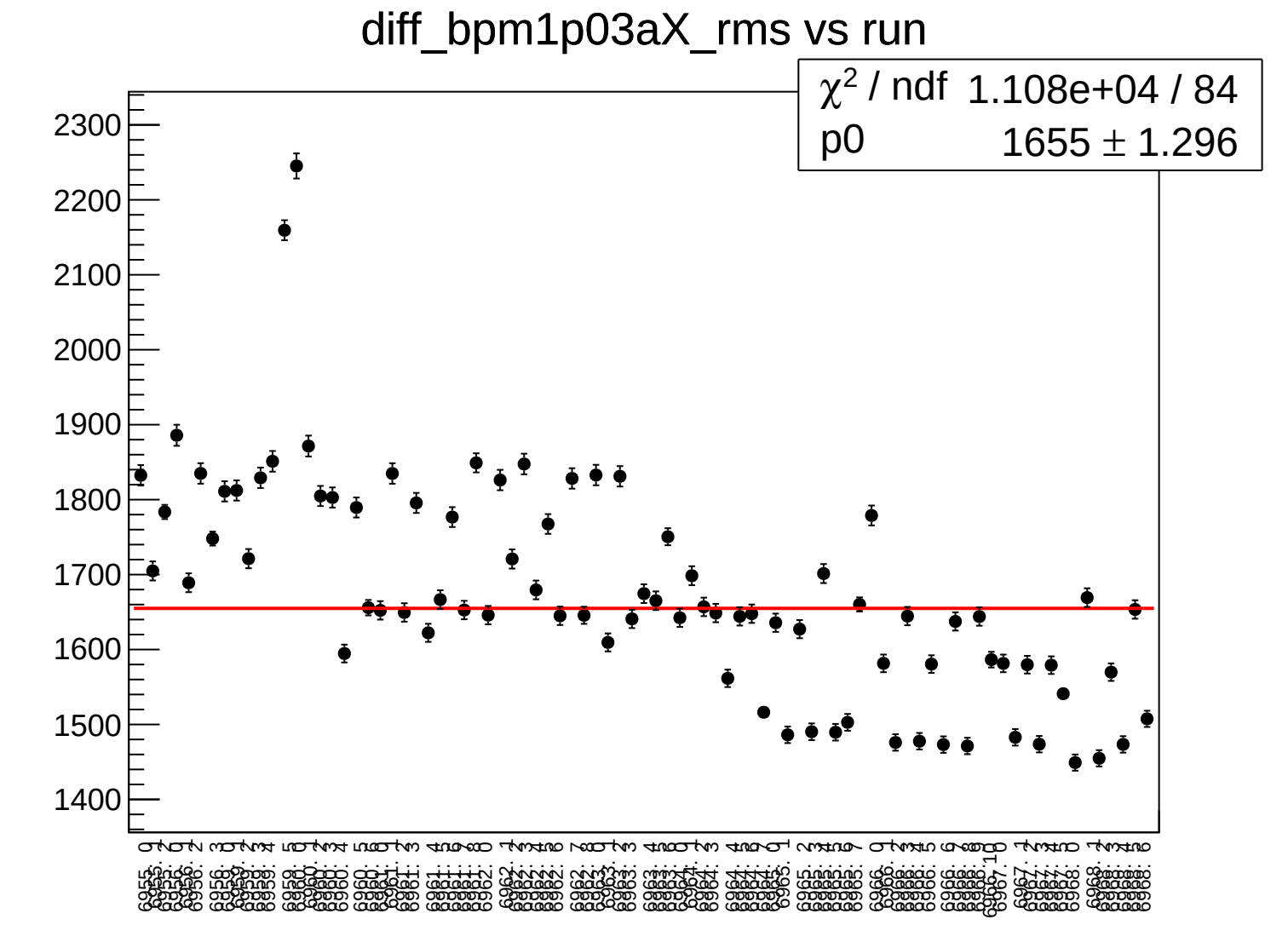

diff_bpm1p02bY_mean vs run
χ² / ndf 72.34 / 84
p0 −2.223 ± 3.643
100
50
0
−50
−100
pull
Entries 85
Mean −212.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

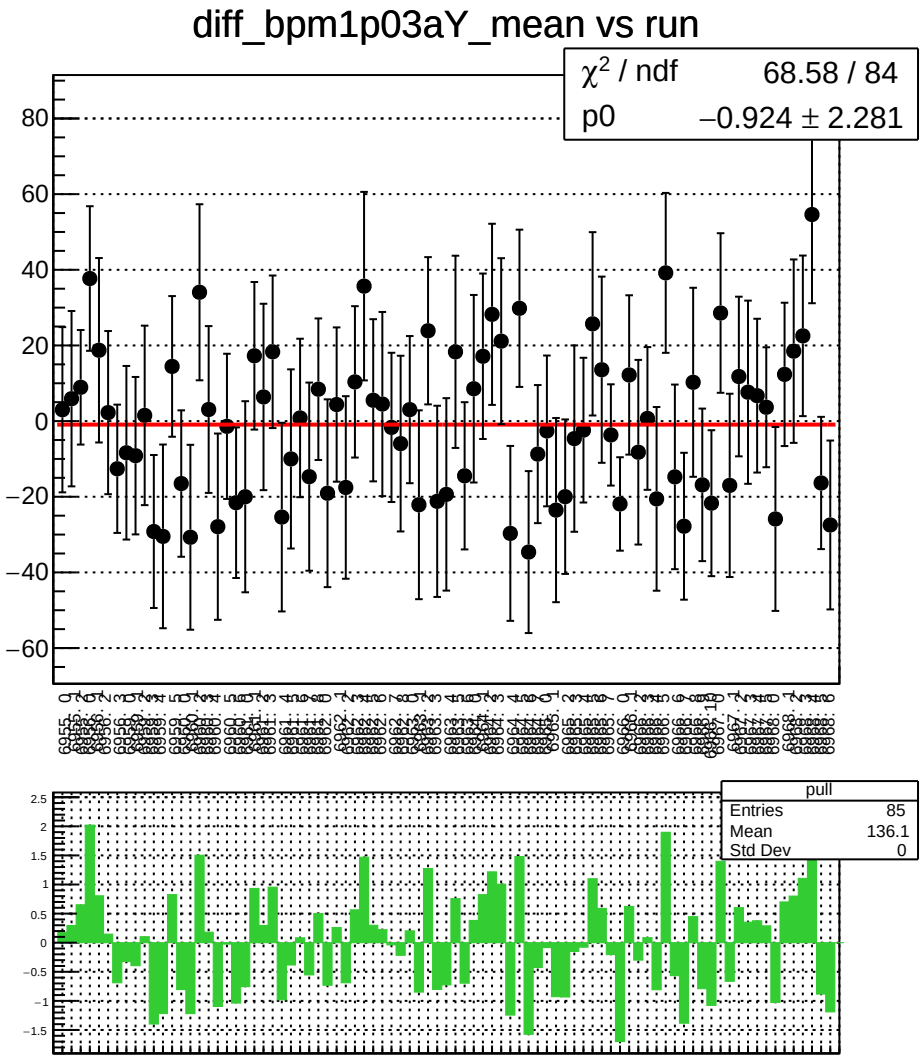

pull1D
Entries 85
Mean −0.01114
Std Dev 0.9225
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

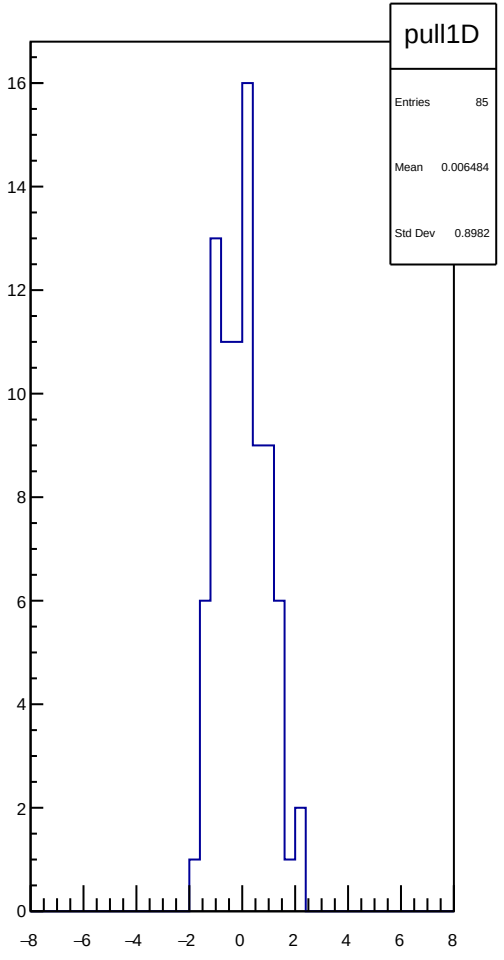

diff_bpm1p02bY_rms vs run
χ² / ndf 2.205e+04 / 84
p0 3279 ± 2.576
4000
3500
3000
2500
2000

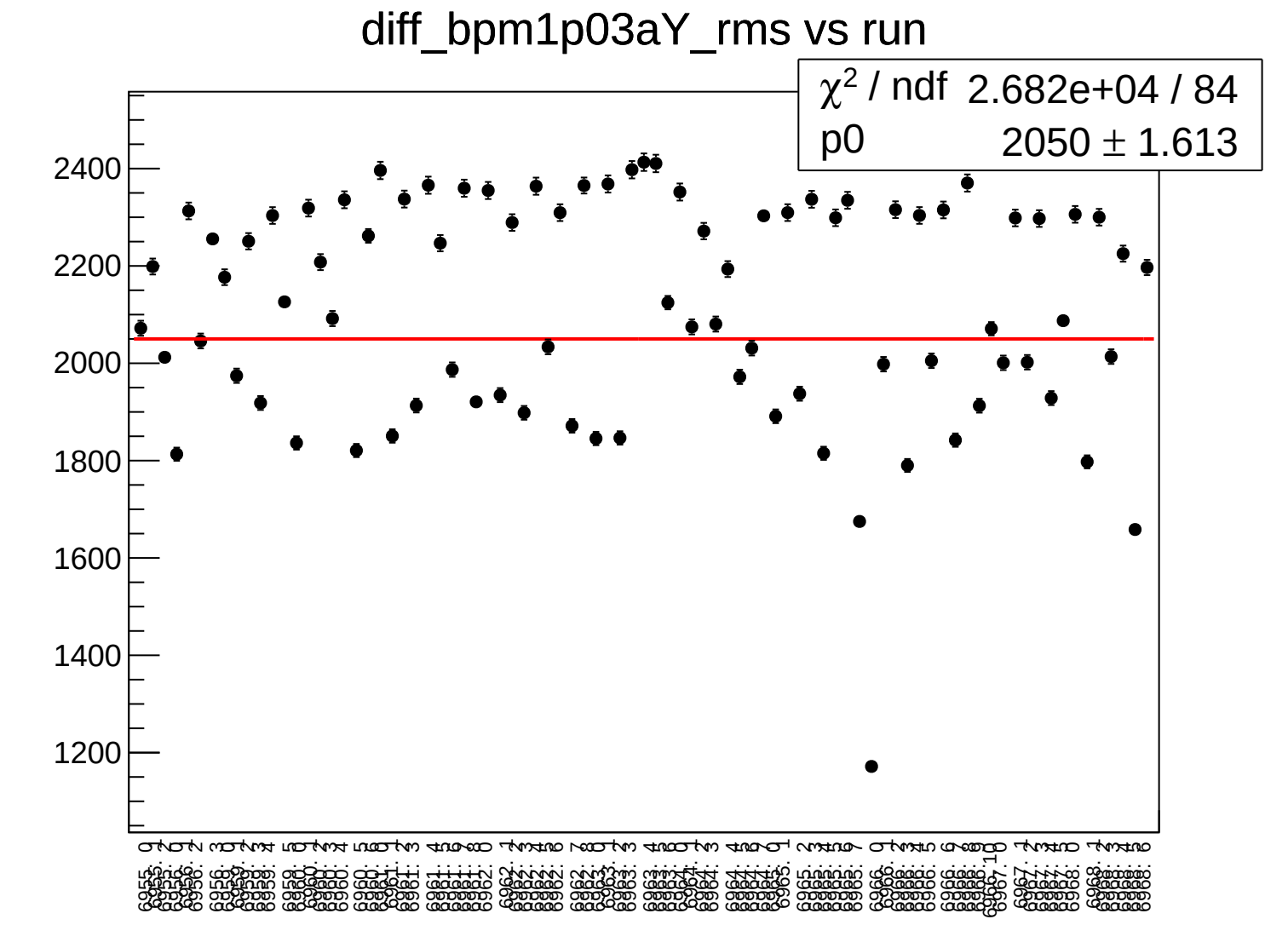

diff_bpm1p03aX_mean vs run
χ² / ndf 85.83 / 84
p0 −1.487 ± 1.832
pull
Entries 85
Mean −94.35
Std Dev 0

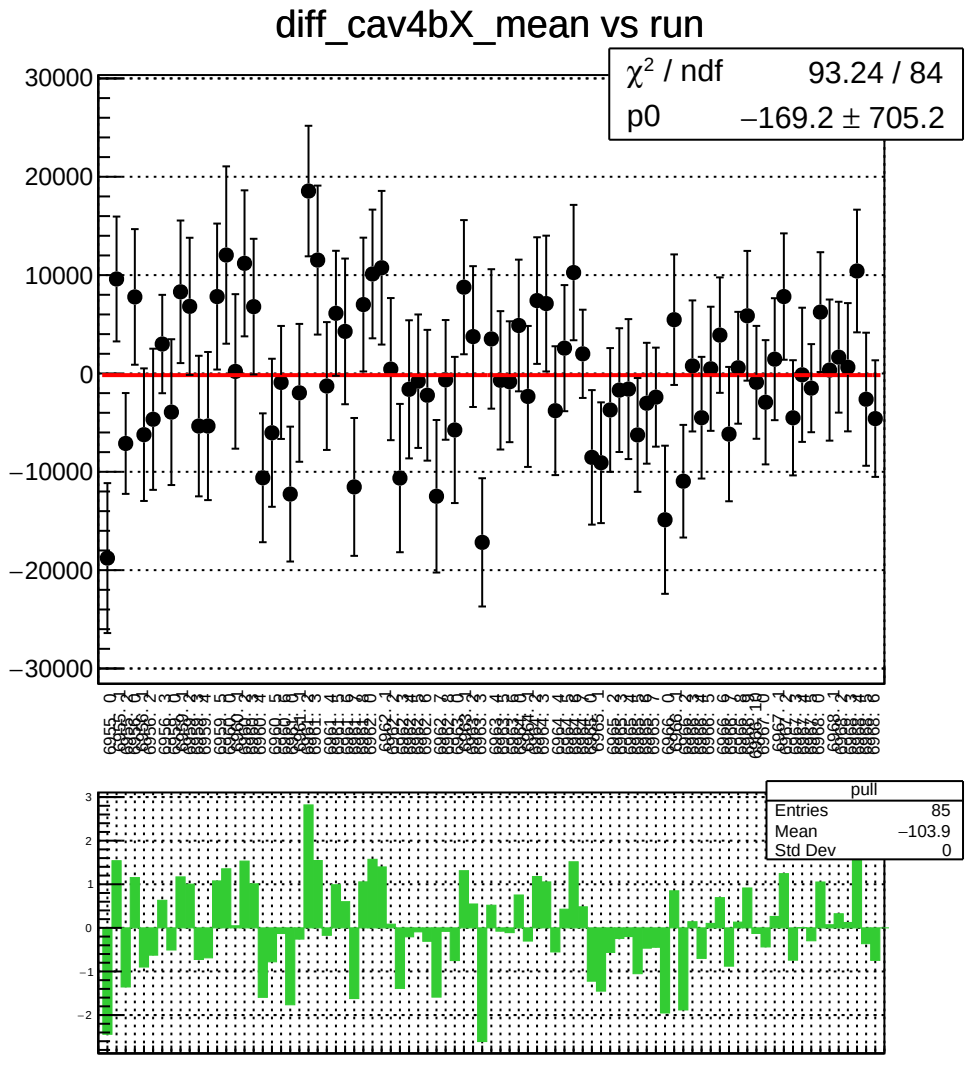

pull1D
Entries 85
Mean 0.009533
Std Dev 1.005

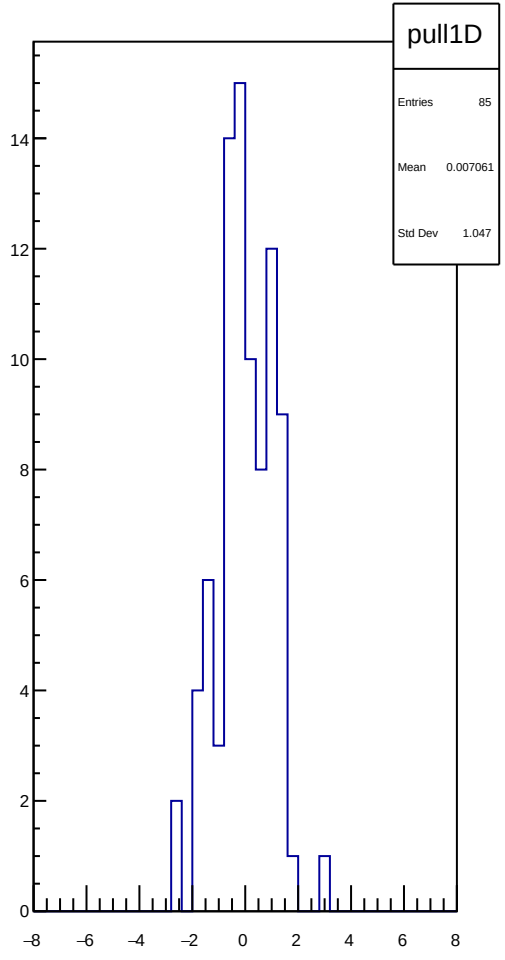

diff_bpm1p03aX_rms vs run
χ² / ndf 1.108e+04 / 84
p0 1655 ± 1.296
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

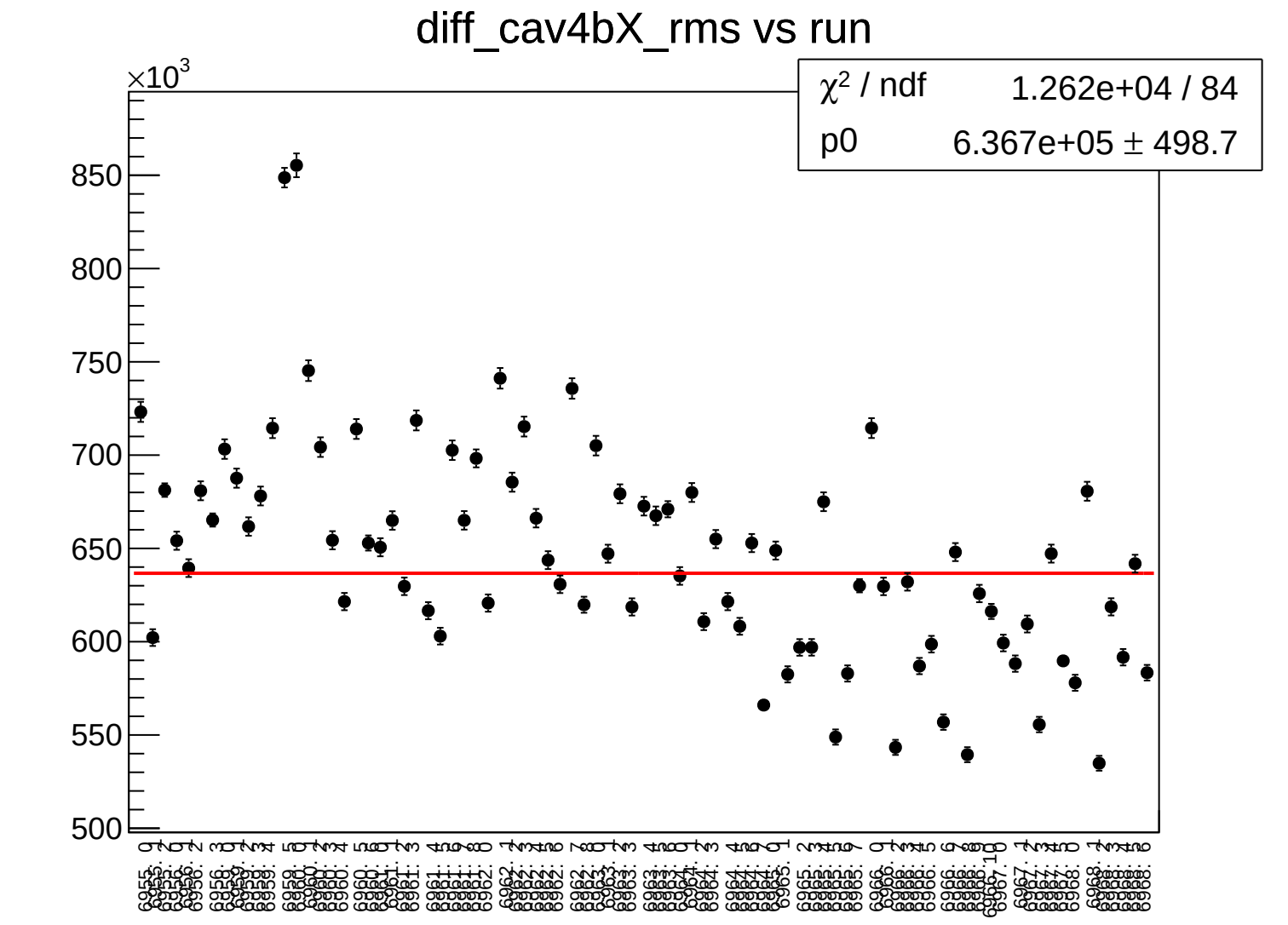

diff_bpm1p03aY_mean vs run
χ² / ndf 68.58 / 84
p0 −0.924 ± 2.281
pull
Entries 85
Mean 136.1
Std Dev 0

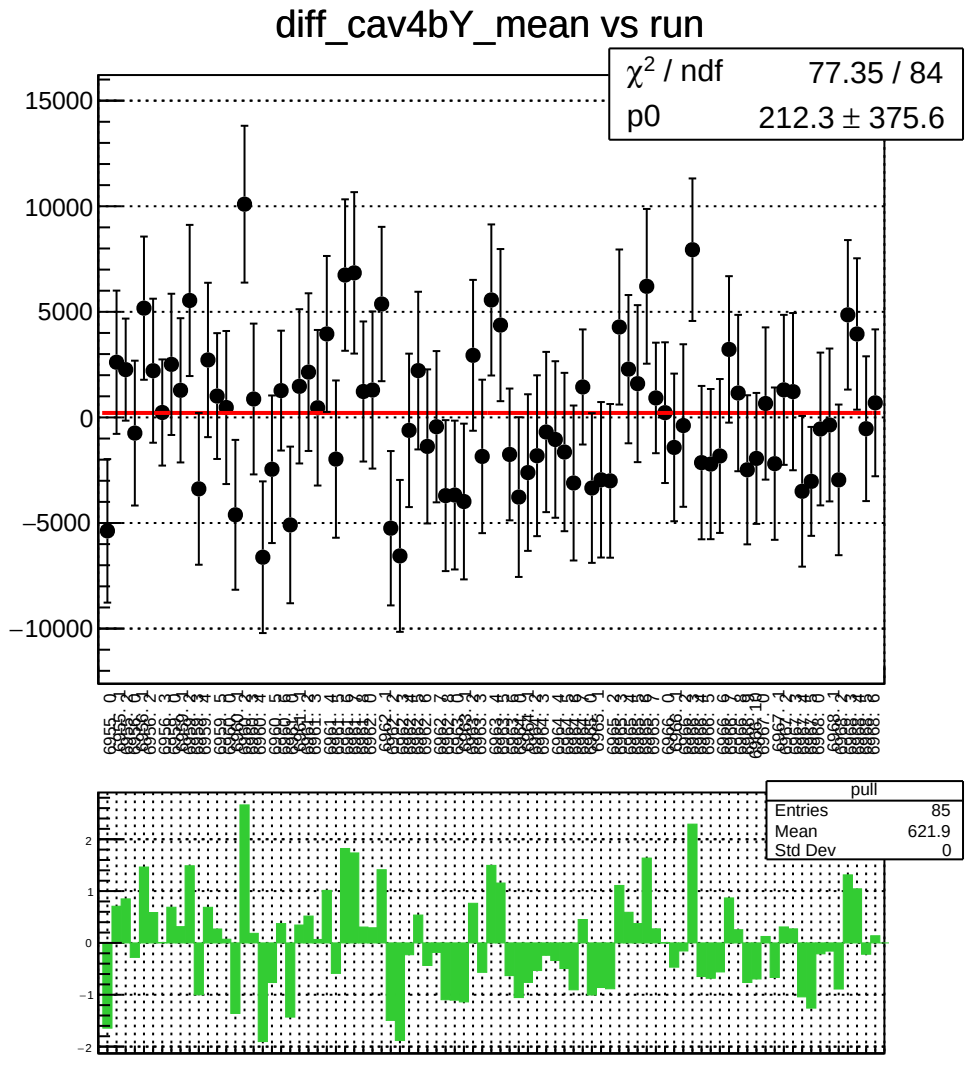

pull1D
Entries 85
Mean 0.006484
Std Dev 0.8982

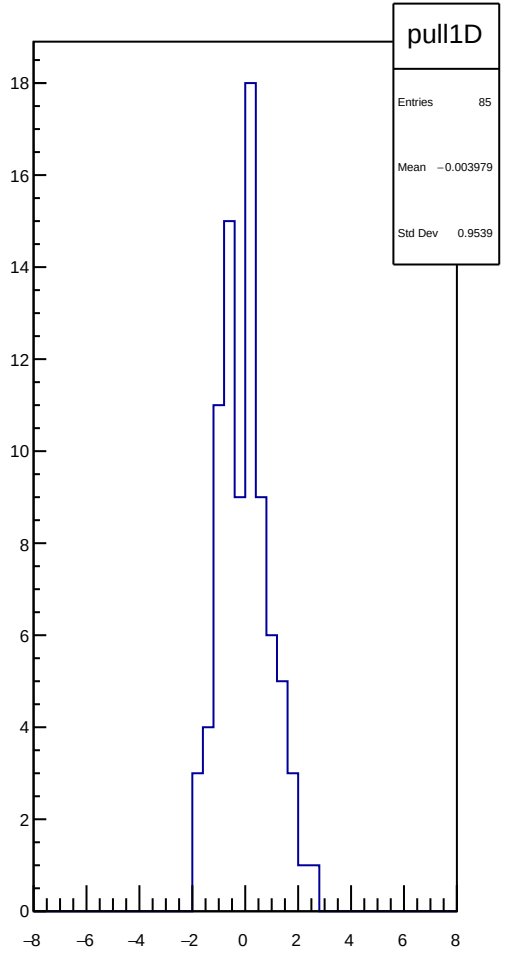

diff_bpm1p03aY_rms vs run
χ² / ndf 2.682e+04 / 84
p0 2050 ± 1.613
2400
2200
2000
1800
1600
1400
1200

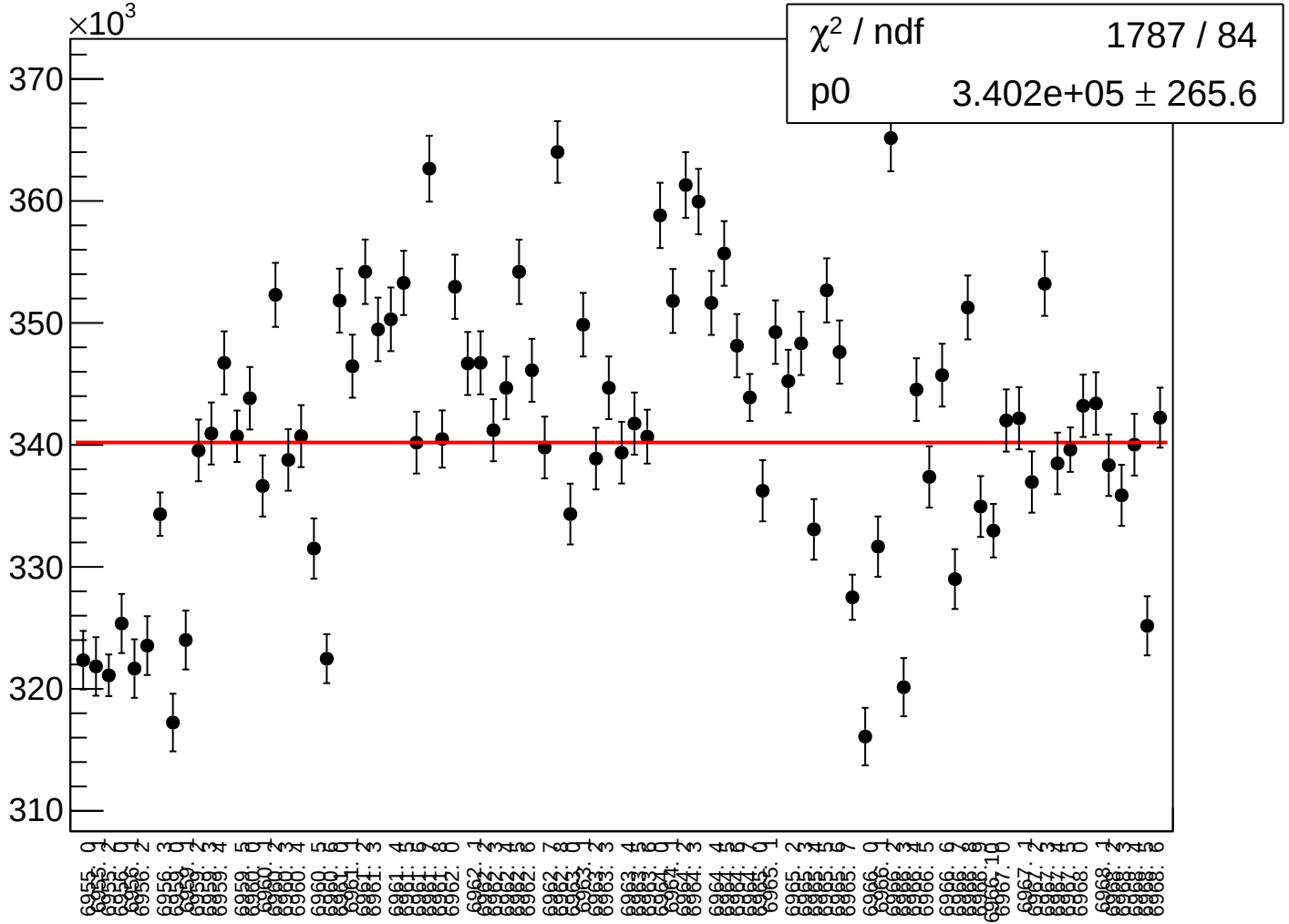

diff_cav4bX_mean vs run
χ² / ndf 93.24 / 84
p0 −169.2 ± 705.2
pull
Entries 85
Mean −103.9
Std Dev 0

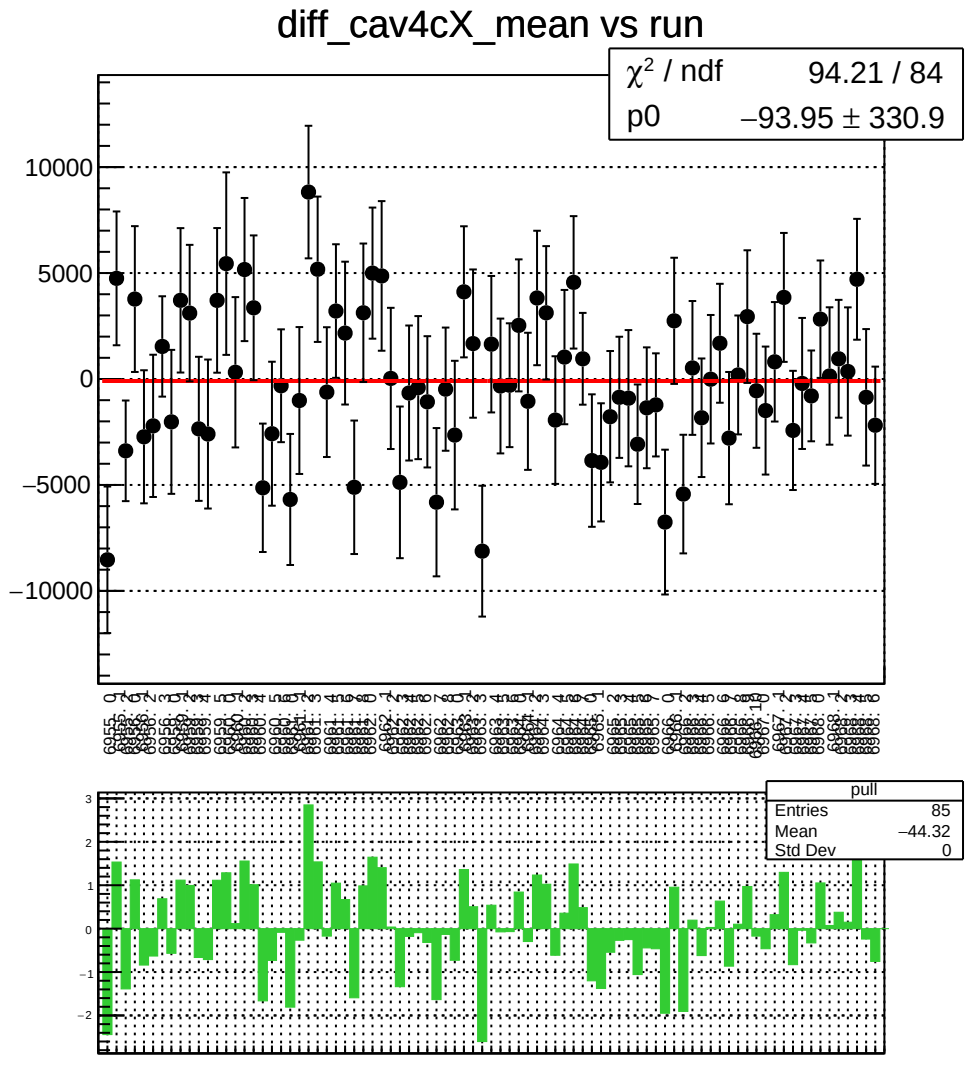

pull1D
Entries 85
Mean 0.007061
Std Dev 1.047

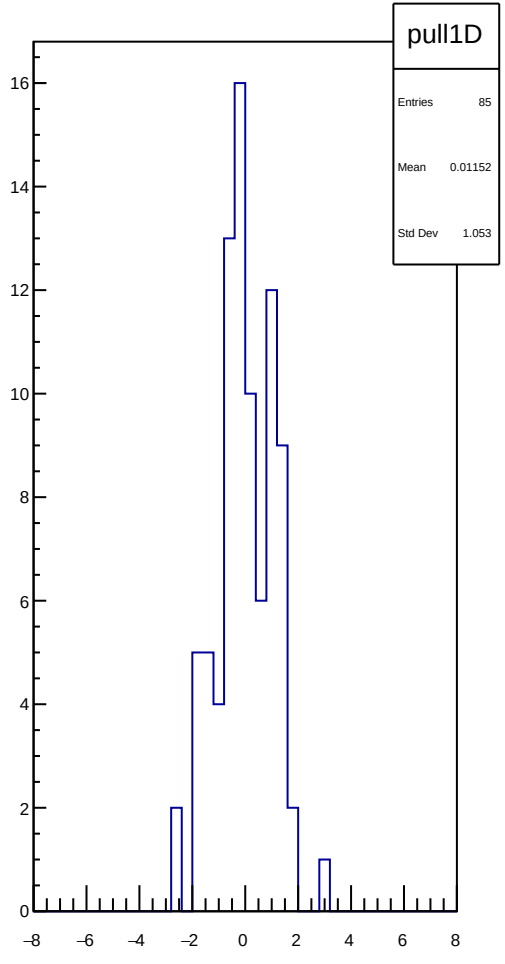

diff_cav4bX_rms vs run
×10^3
χ² / ndf 1.262e+04 / 84
p0 6.367e+05 ± 498.7
850
800
750
700
650
600
550
500

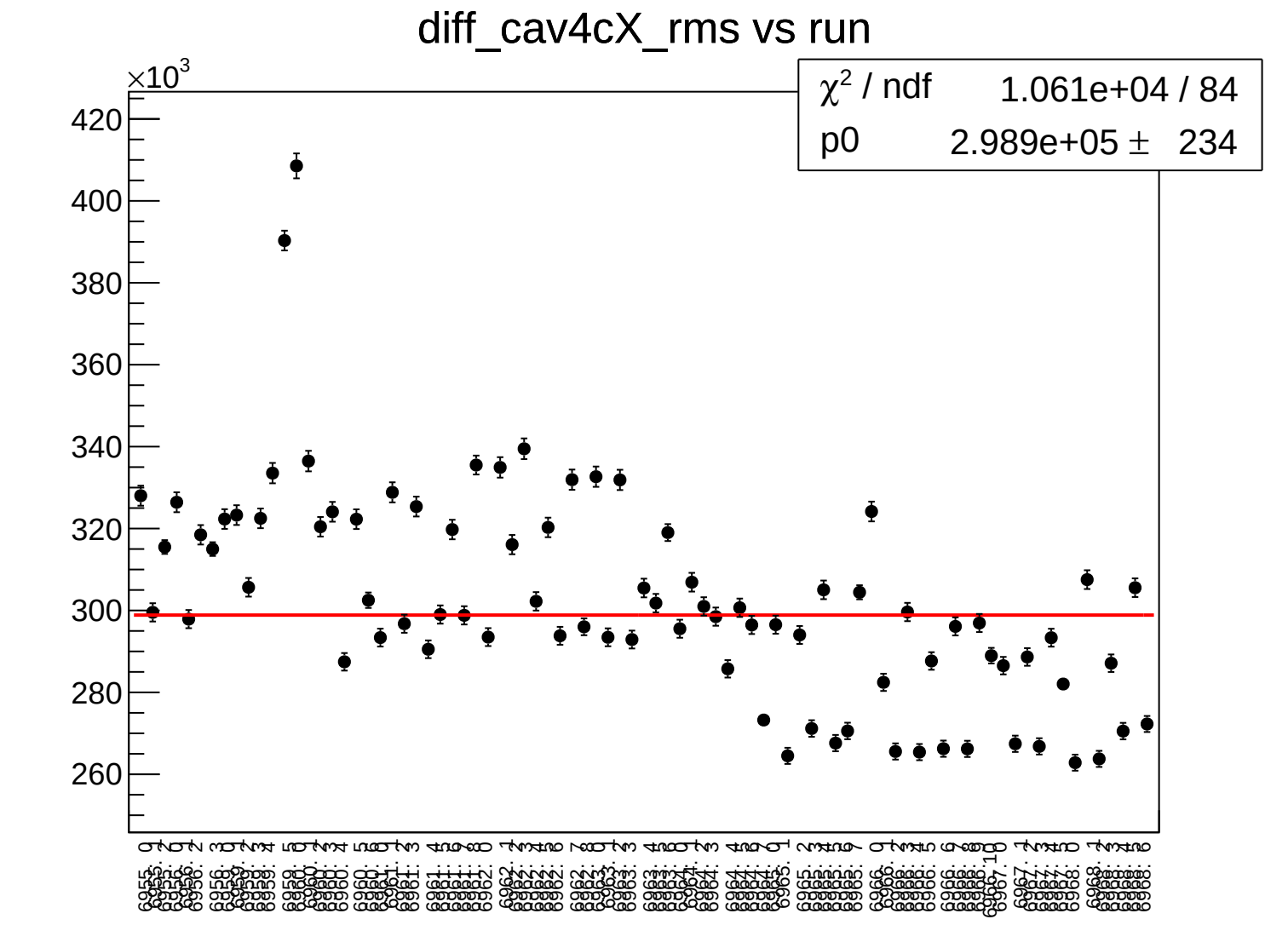

diff_cav4bY_mean vs run
χ² / ndf 77.35 / 84
p0 212.3 ± 375.6
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 621.9
Std Dev 0
2
1
0
−1
−2

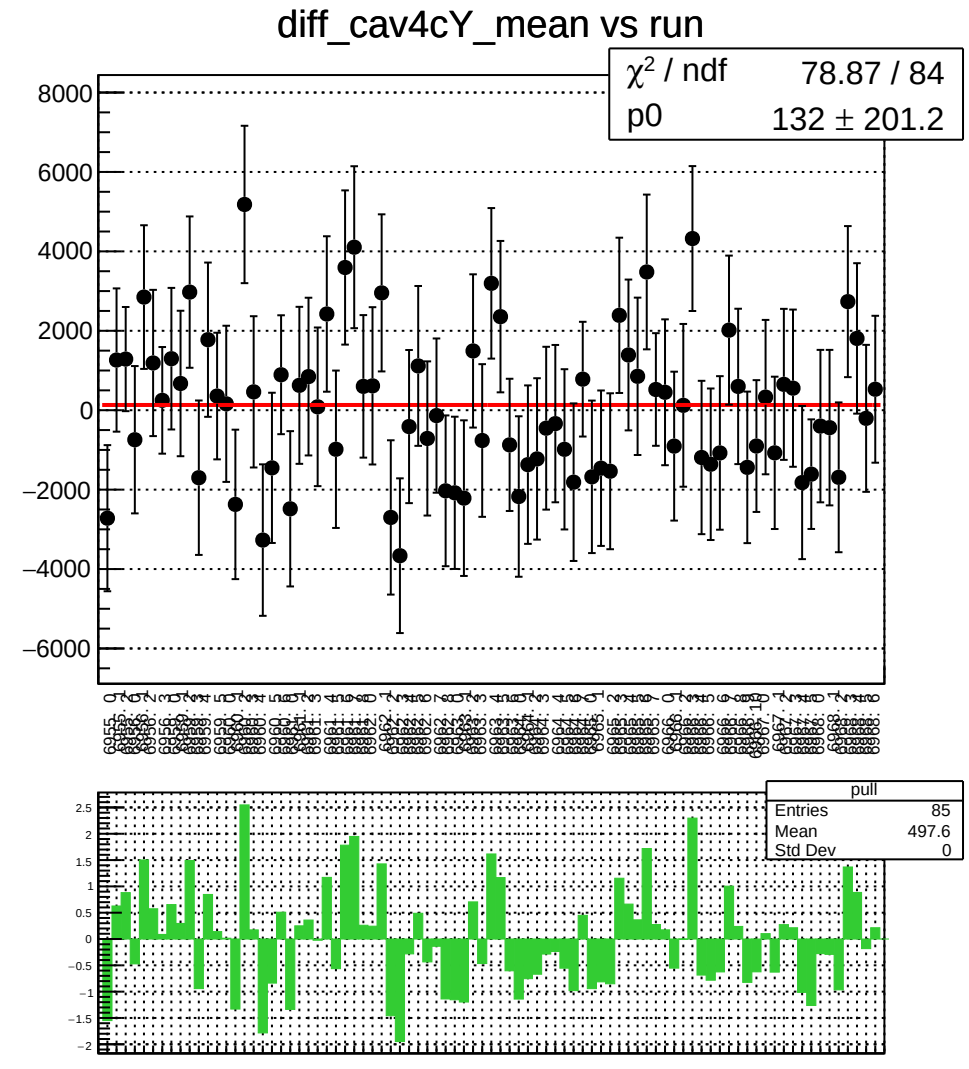

pull1D
Entries 85
Mean −0.003979
Std Dev 0.9539
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

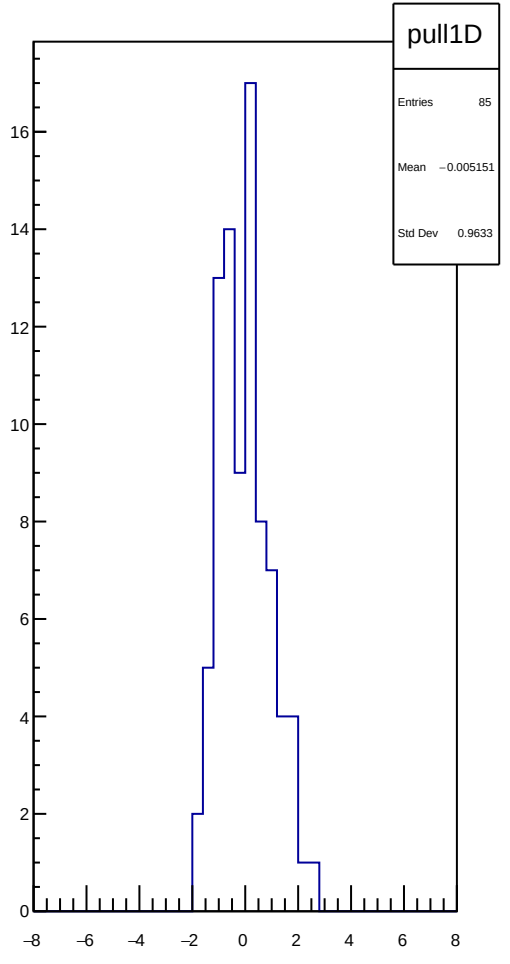

diff_cav4bY_rms vs run
×10^3
370
360
350
340
330
320
310
χ² / ndf 1787 / 84
p0 3.402e+05 ± 265.6

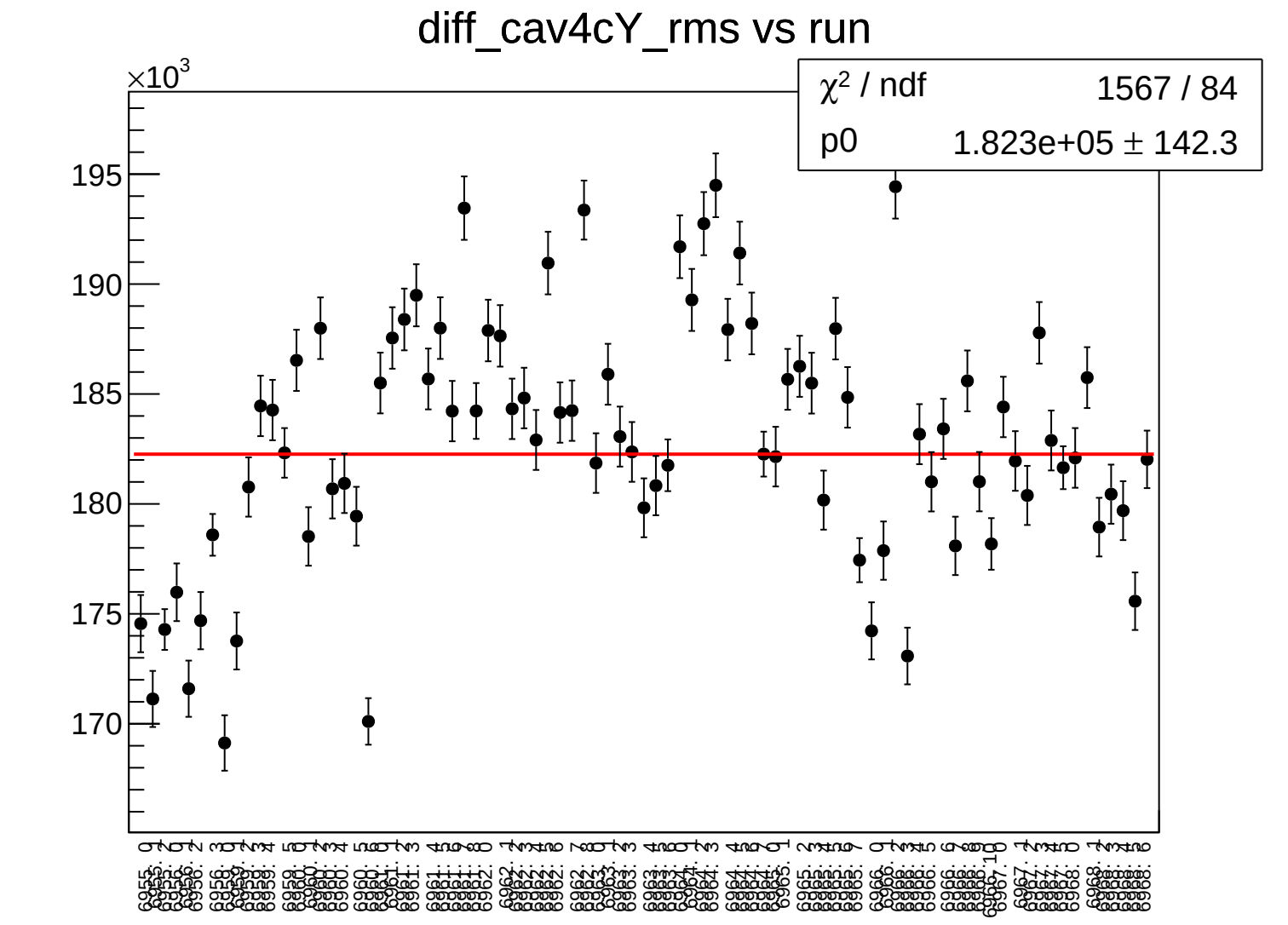

diff_cav4cX_mean vs run
χ² / ndf 94.21 / 84
p0 −93.95 ± 330.9
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −44.32
Std Dev 0
3
2
1
0
−1
−2

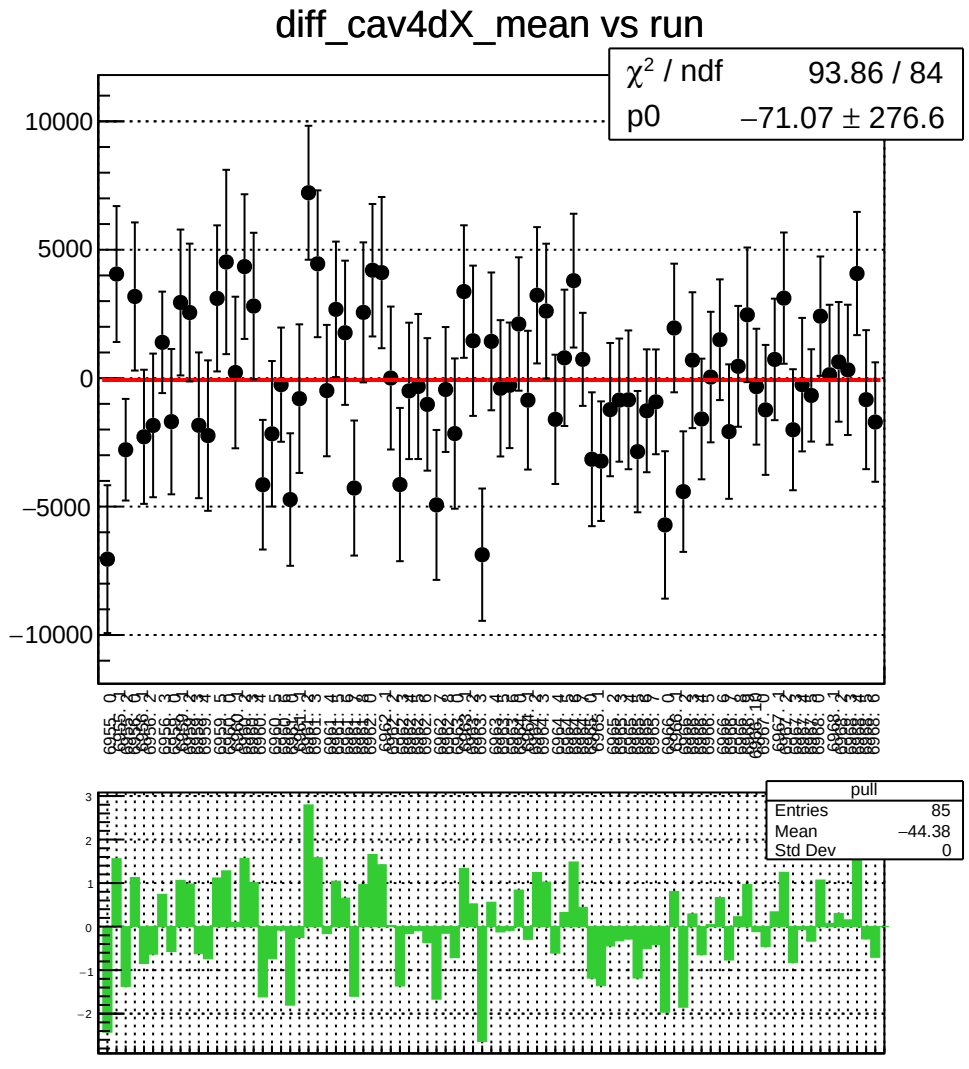

pull1D
Entries 85
Mean 0.01152
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

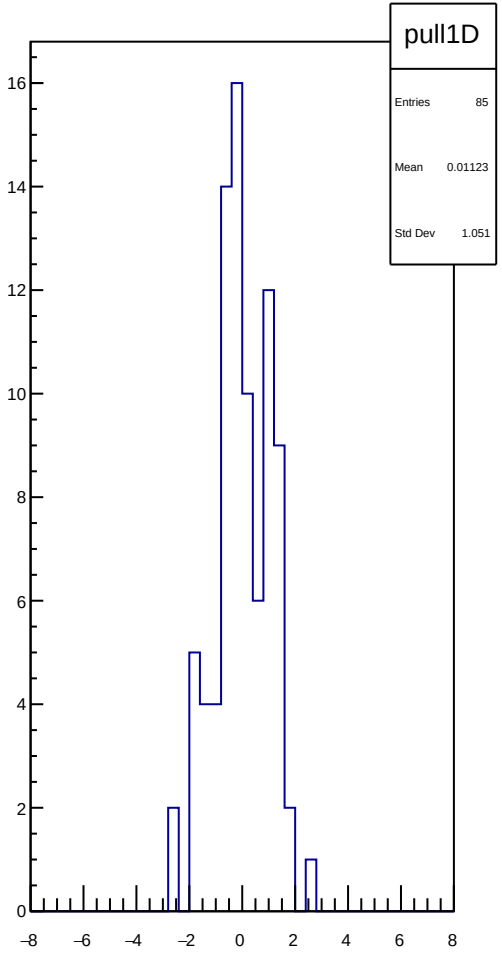

diff_cav4cX_rms vs run
×10^3
χ^2 / ndf 1.061e+04 / 84
p0 2.989e+05 ± 234
420
400
380
360
340
320
300
280
260

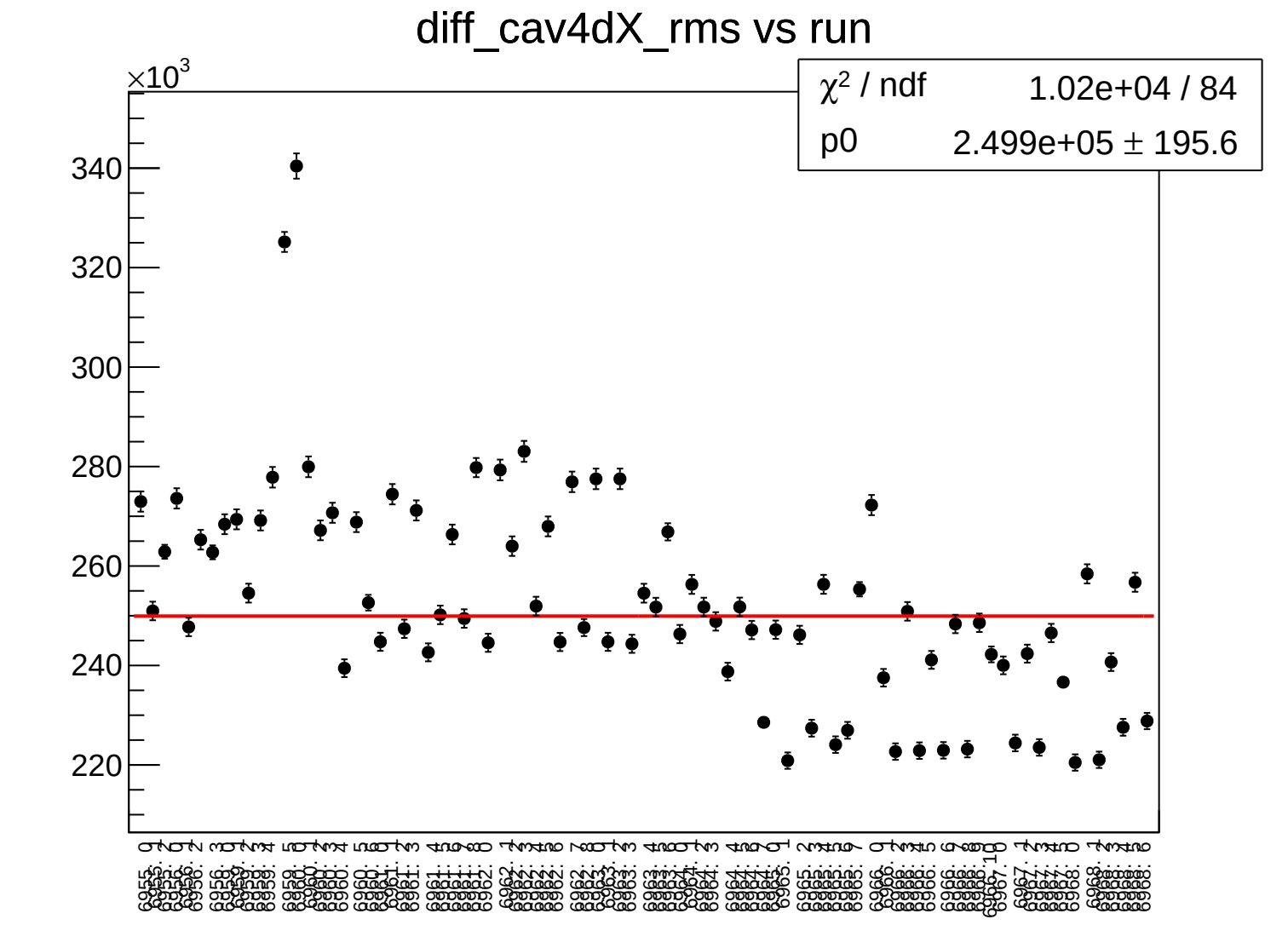

diff_cav4cY_mean vs run
χ² / ndf 78.87 / 84
p0 132 ± 201.2
pull
Entries 85
Mean 497.6
Std Dev 0

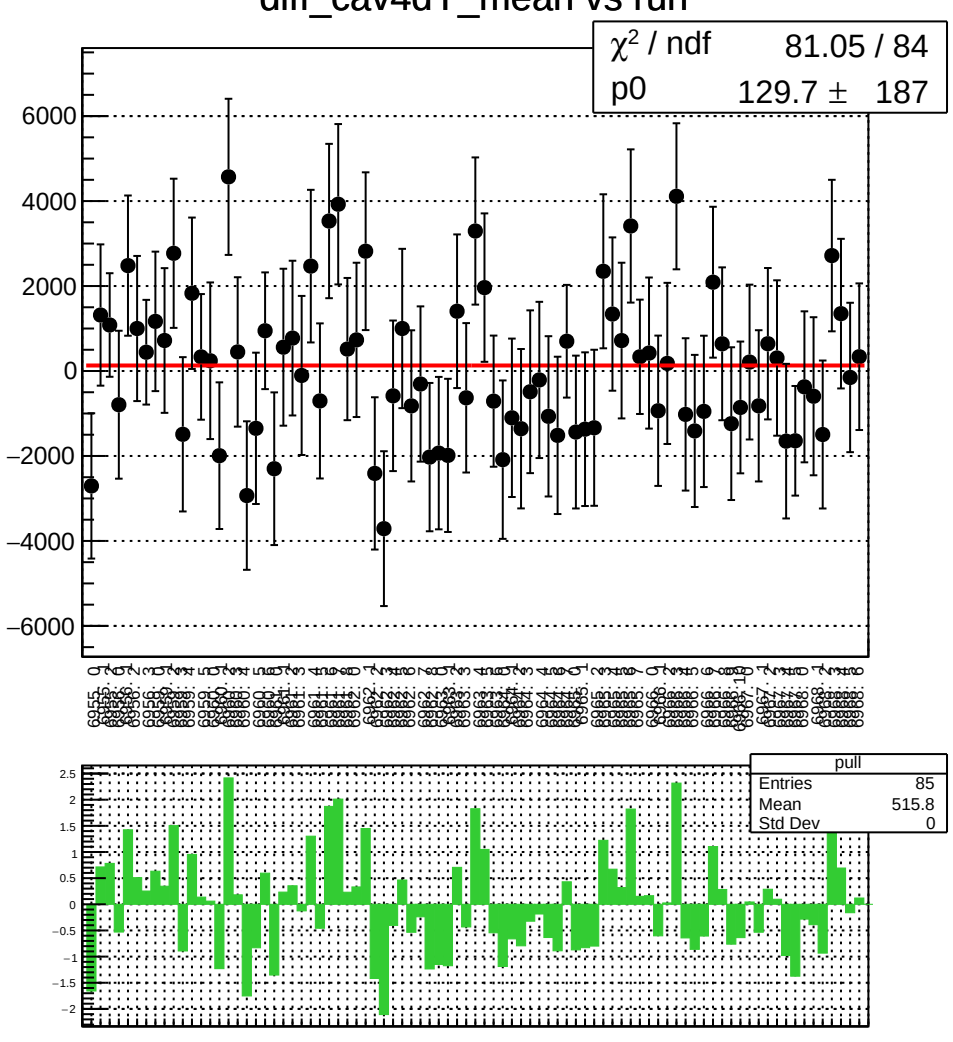

pull1D
Entries 85
Mean −0.005151
Std Dev 0.9633

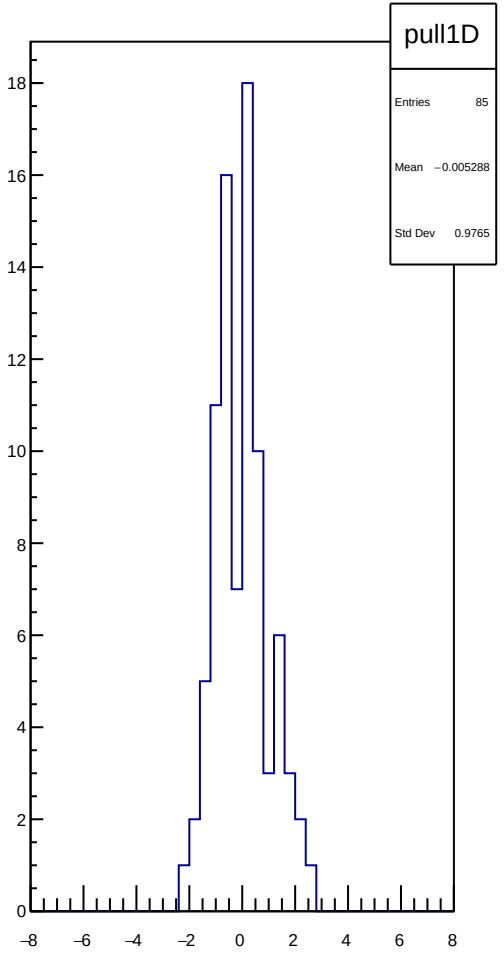

diff_cav4cY_rms vs run
×10^3
χ² / ndf 1567 / 84
p0 1.823e+05 ± 142.3
195
190
185
180
175
170

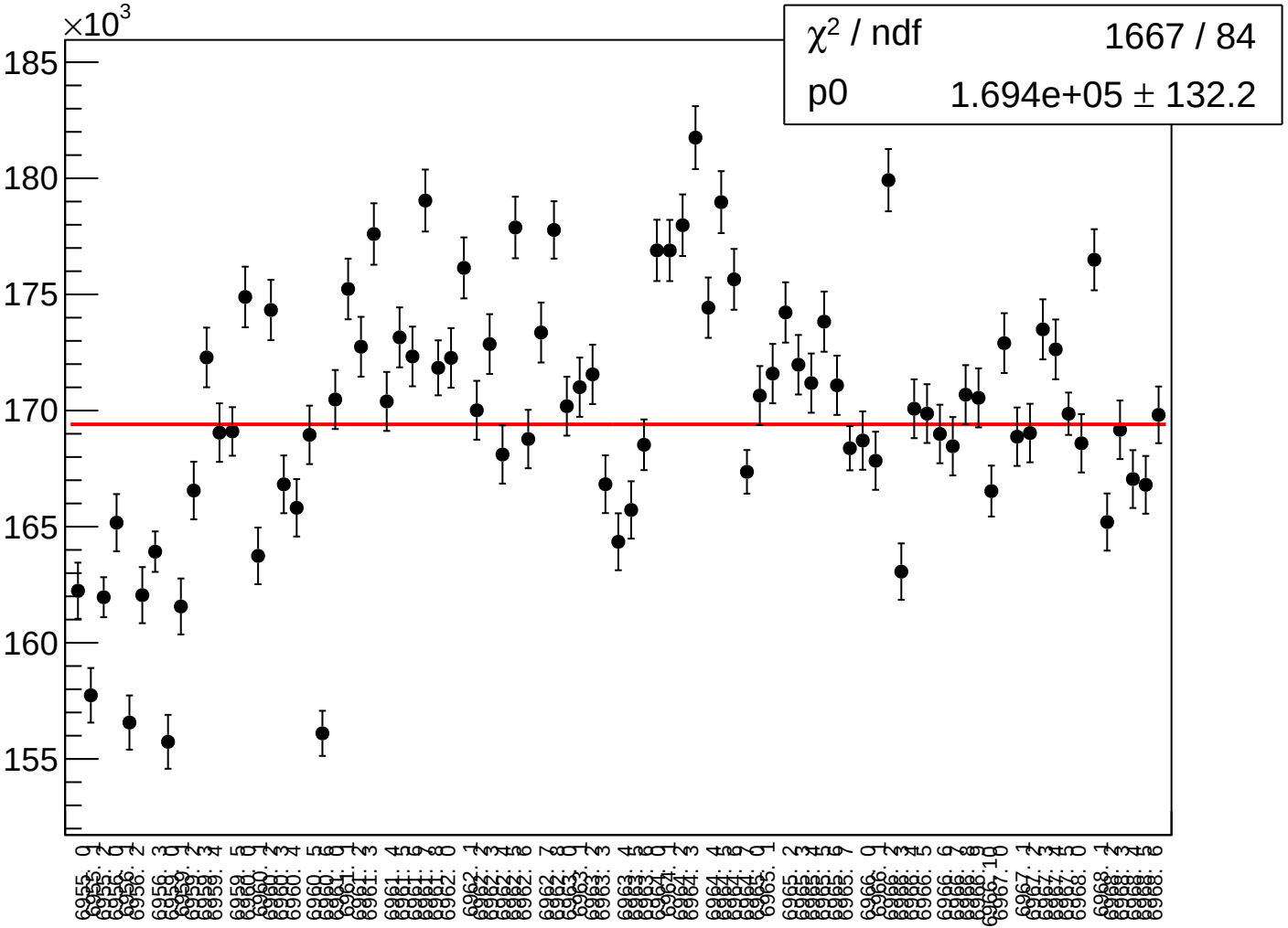

diff_cav4dX_mean vs run
χ² / ndf 93.86 / 84
p0 −71.07 ± 276.6
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −44.38
Std Dev 0
3
2
1
0
−1
−2

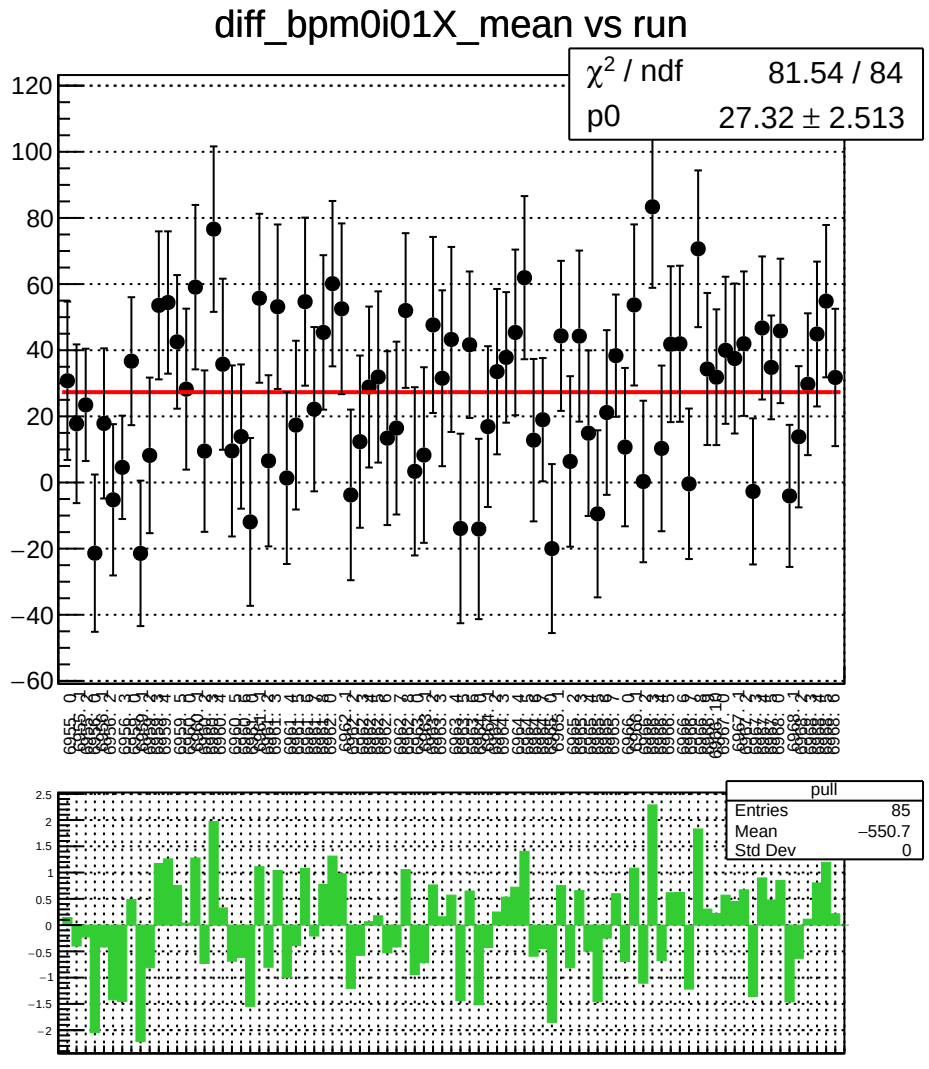

pull1D
Entries 85
Mean 0.01123
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

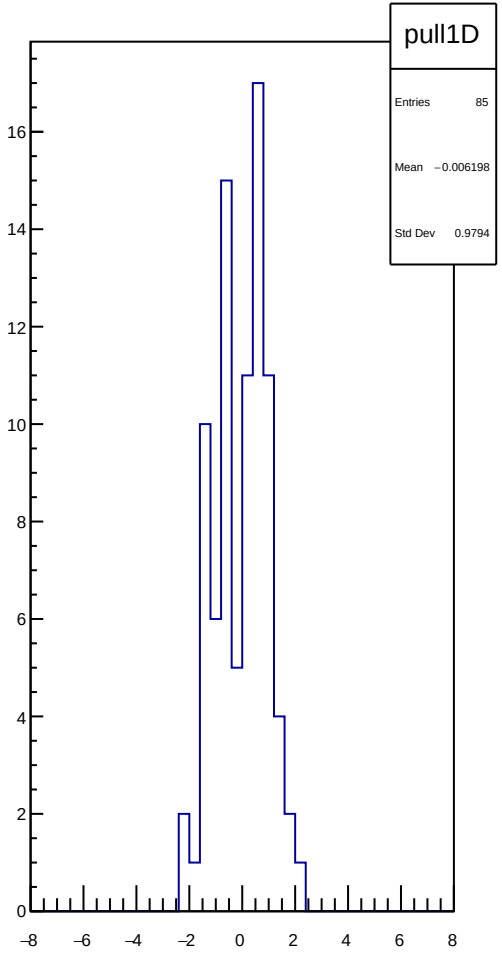

diff_cav4dX_rms vs run
×10^3
340
320
300
280
260
240
220
χ² / ndf 1.02e+04 / 84
p0 2.499e+05 ± 195.6

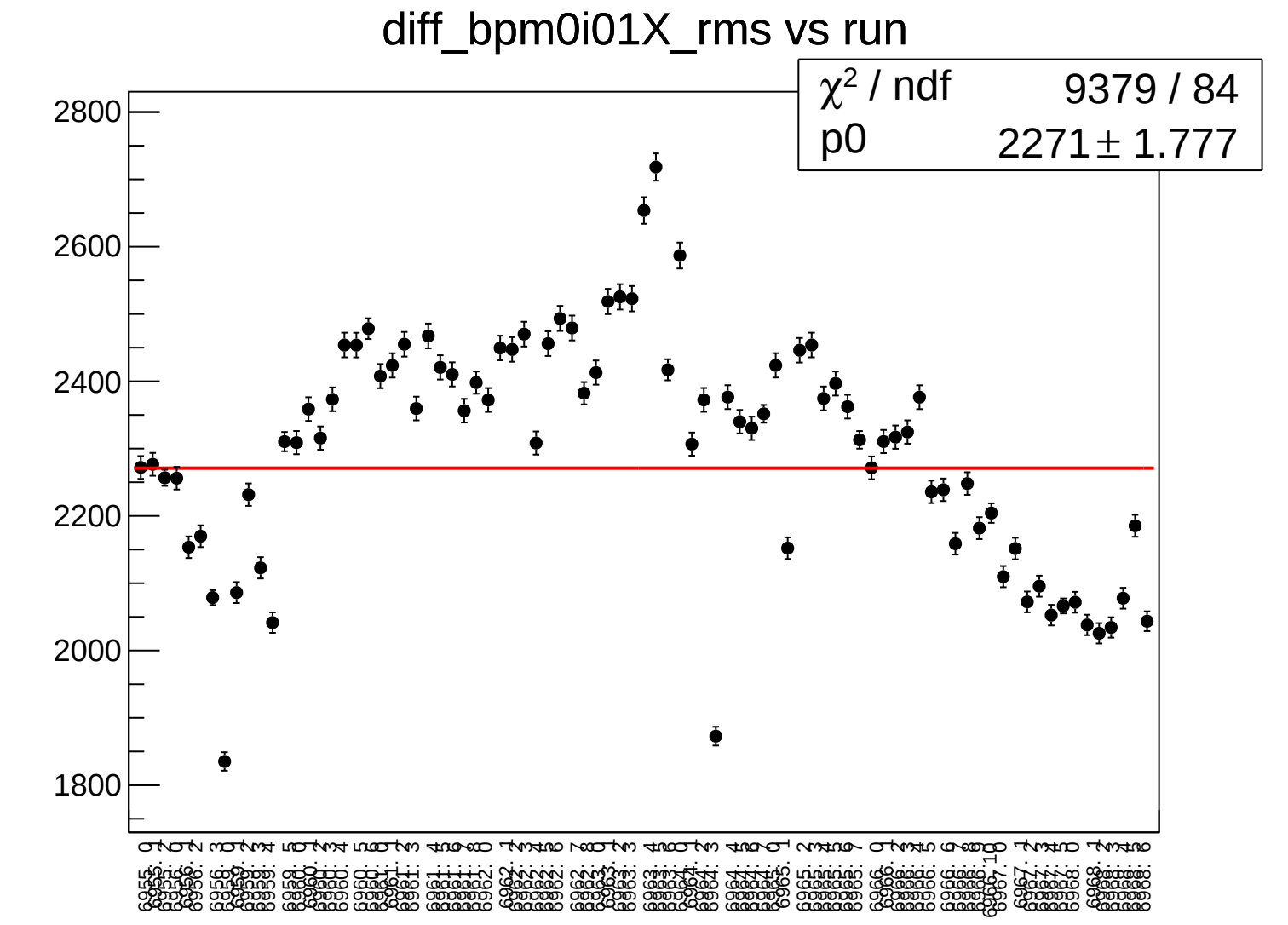

diff_cav4dY_mean vs run
χ² / ndf 81.05 / 84
p0 129.7 ± 187
pull
Entries 85
Mean 515.8
Std Dev 0

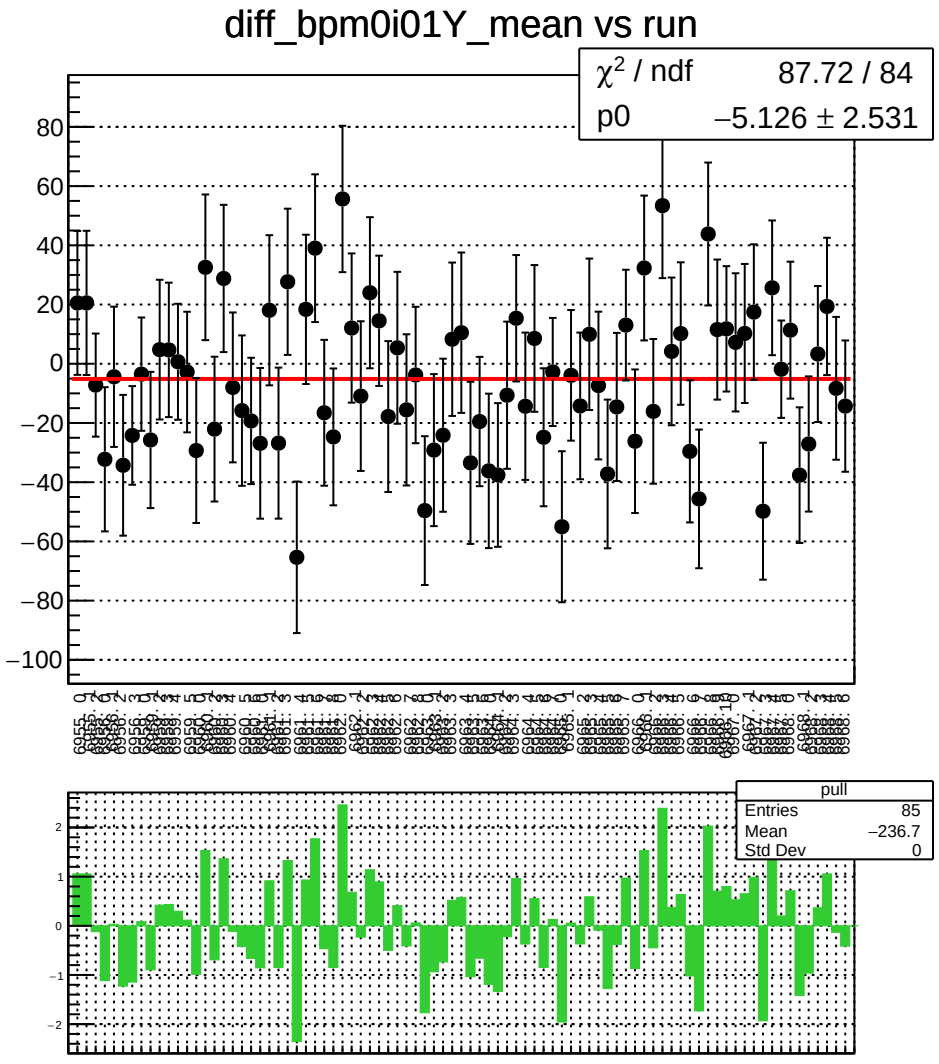

pull1D
Entries 85
Mean −0.005288
Std Dev 0.9765

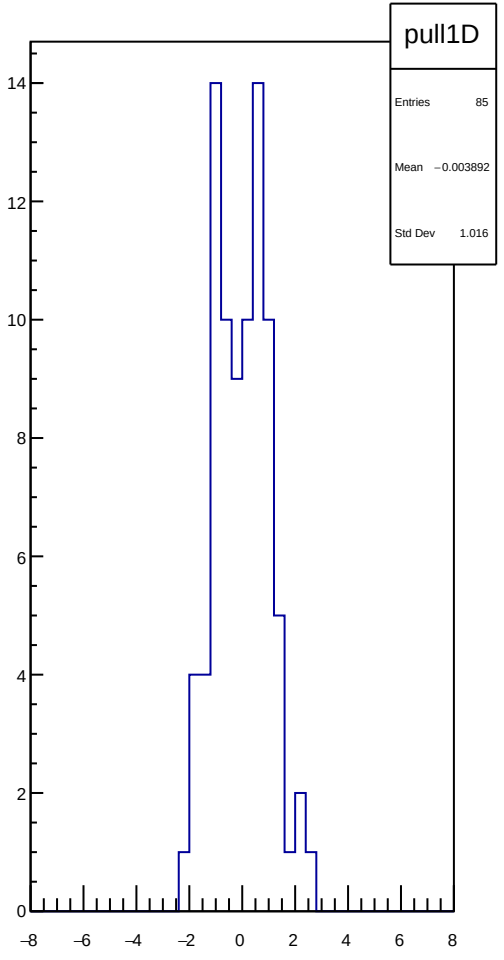

diff_cav4dY_rms vs run
×10^3
185
180
175
170
165
160
155
χ² / ndf 1667 / 84
p0 1.694e+05 ± 132.2

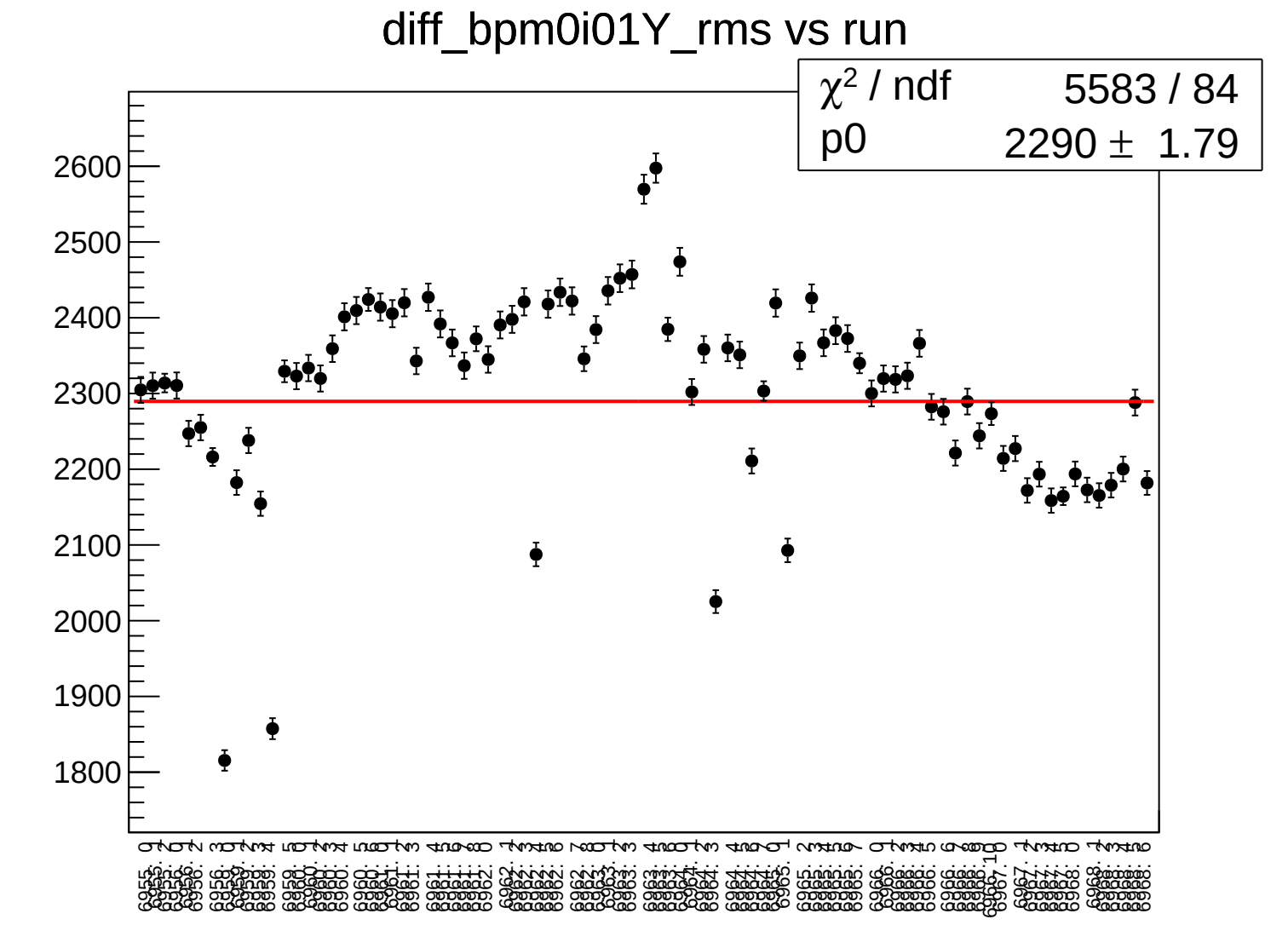

diff_bpm0i01X_mean vs run
$\chi^2$ / ndf 81.54 / 84
p0 27.32 ± 2.513
pull
Entries 85
Mean −550.7
Std Dev 0

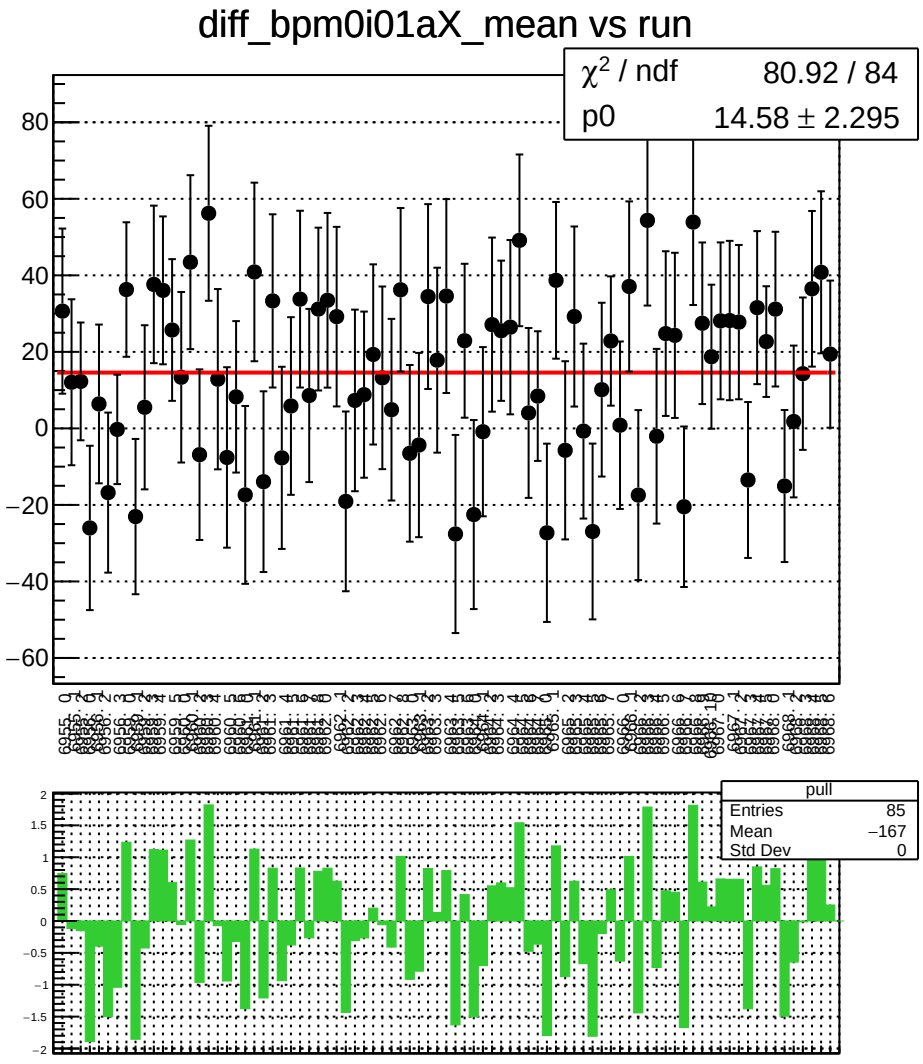

pull1D
Entries 85
Mean −0.006198
Std Dev 0.9794

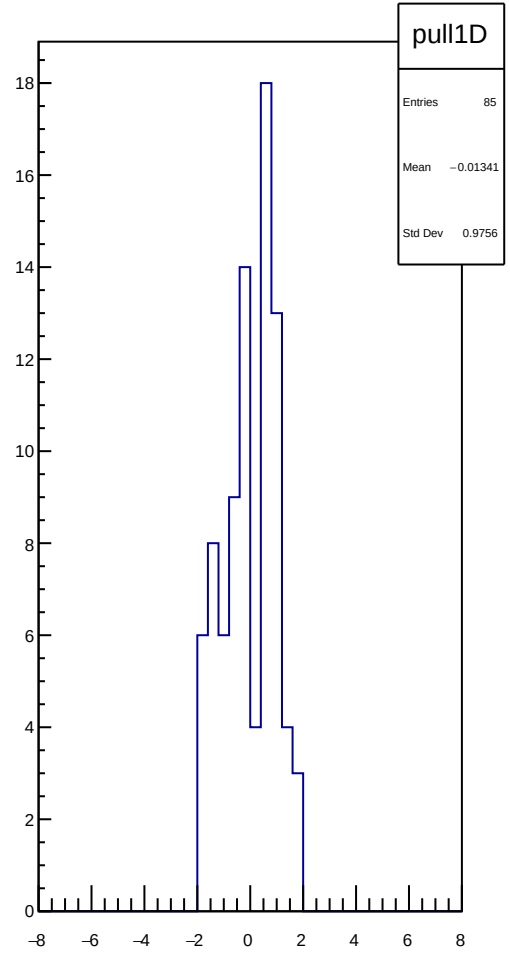

diff_bpm0i01X_rms vs run
χ² / ndf 9379 / 84
p0 2271 ± 1.777
2800
2600
2400
2200
2000
1800

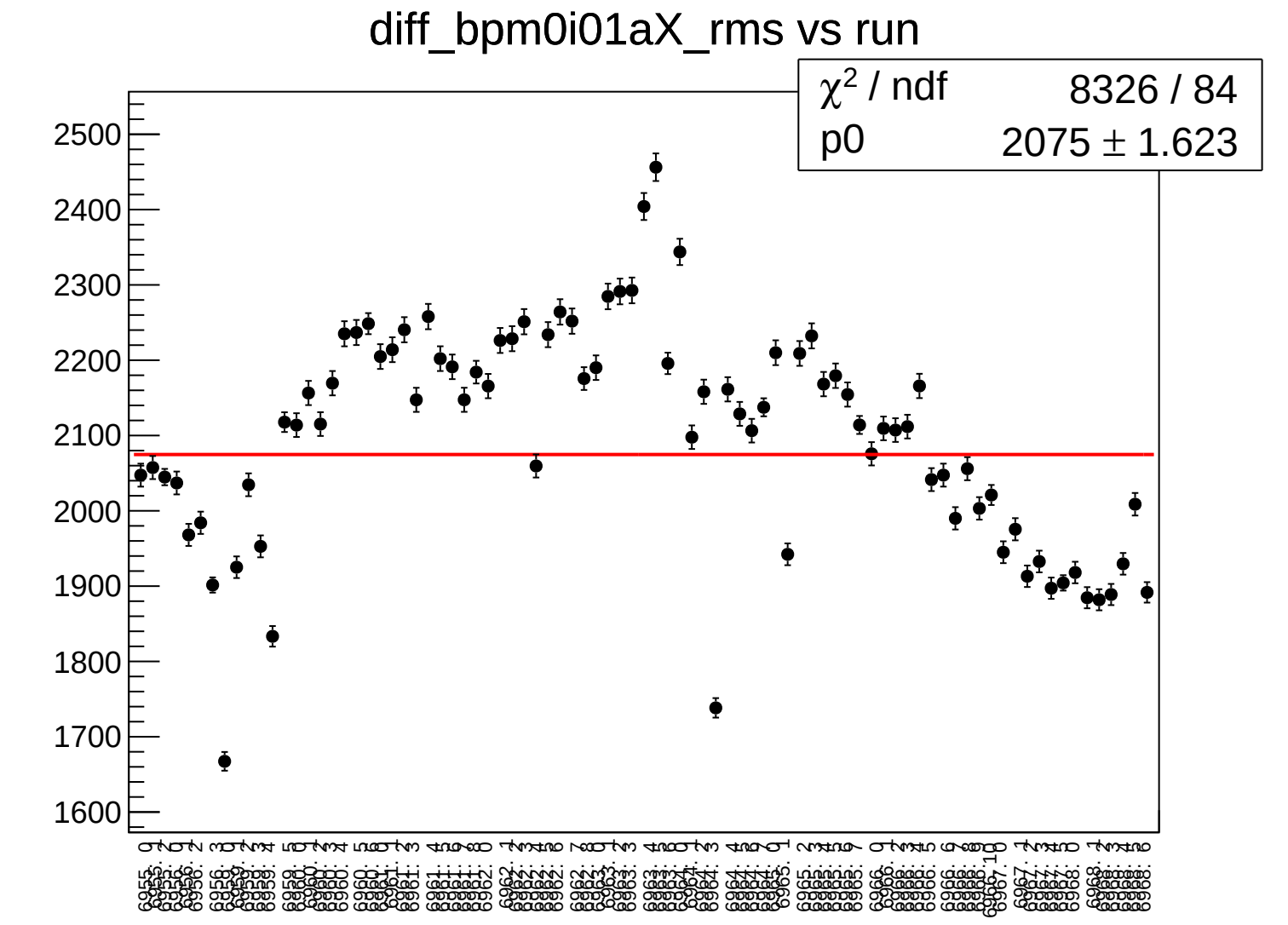

diff_bpm0i01Y_mean vs run
χ² / ndf 87.72 / 84
p0 −5.126 ± 2.531
pull
Entries 85
Mean −236.7
Std Dev 0

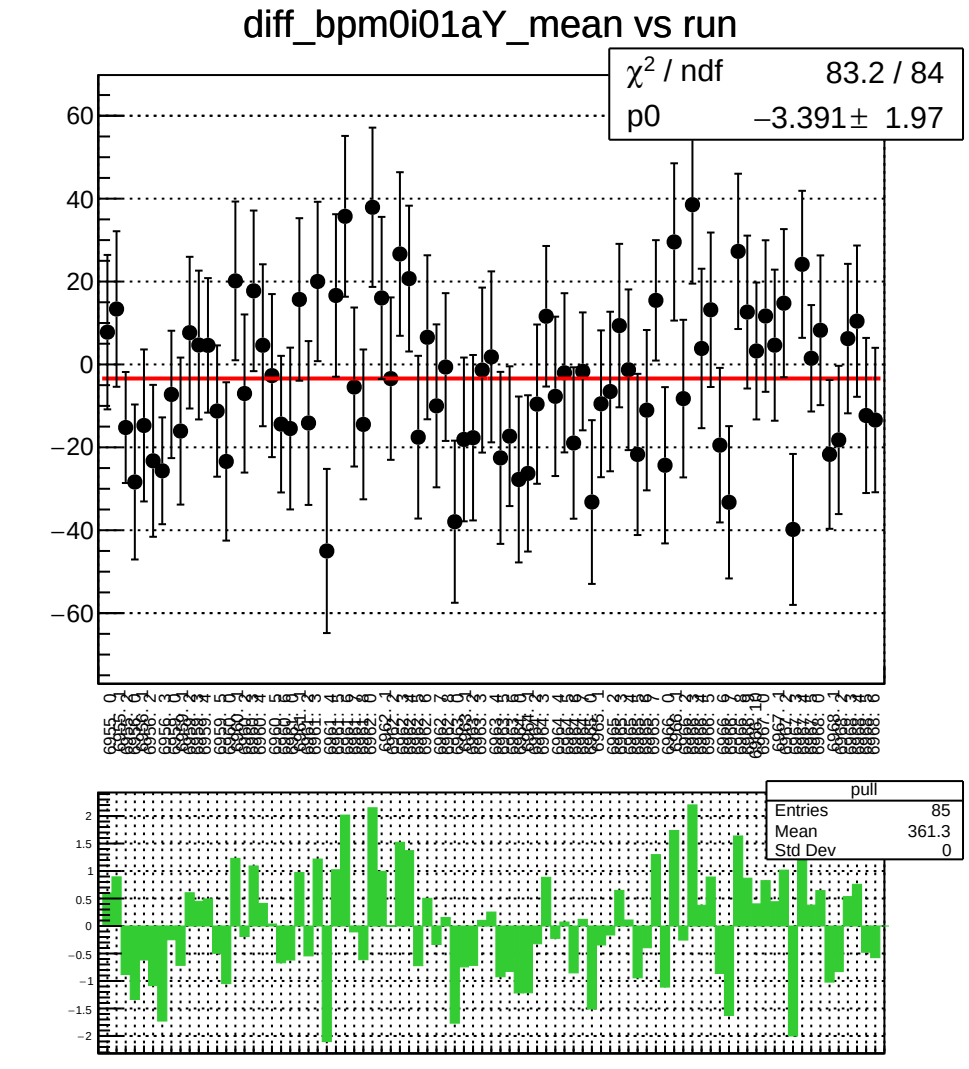

pull1D
Entries 85
Mean −0.003892
Std Dev 1.016

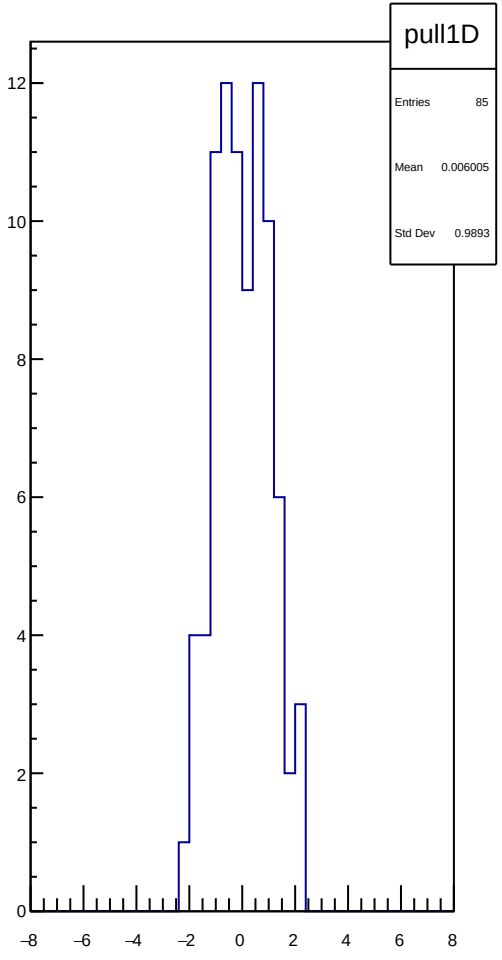

diff_bpm0i01Y_rms vs run
χ² / ndf 5583 / 84
p0 2290 ± 1.79
2600
2500
2400
2300
2200
2100
2000
1900
1800

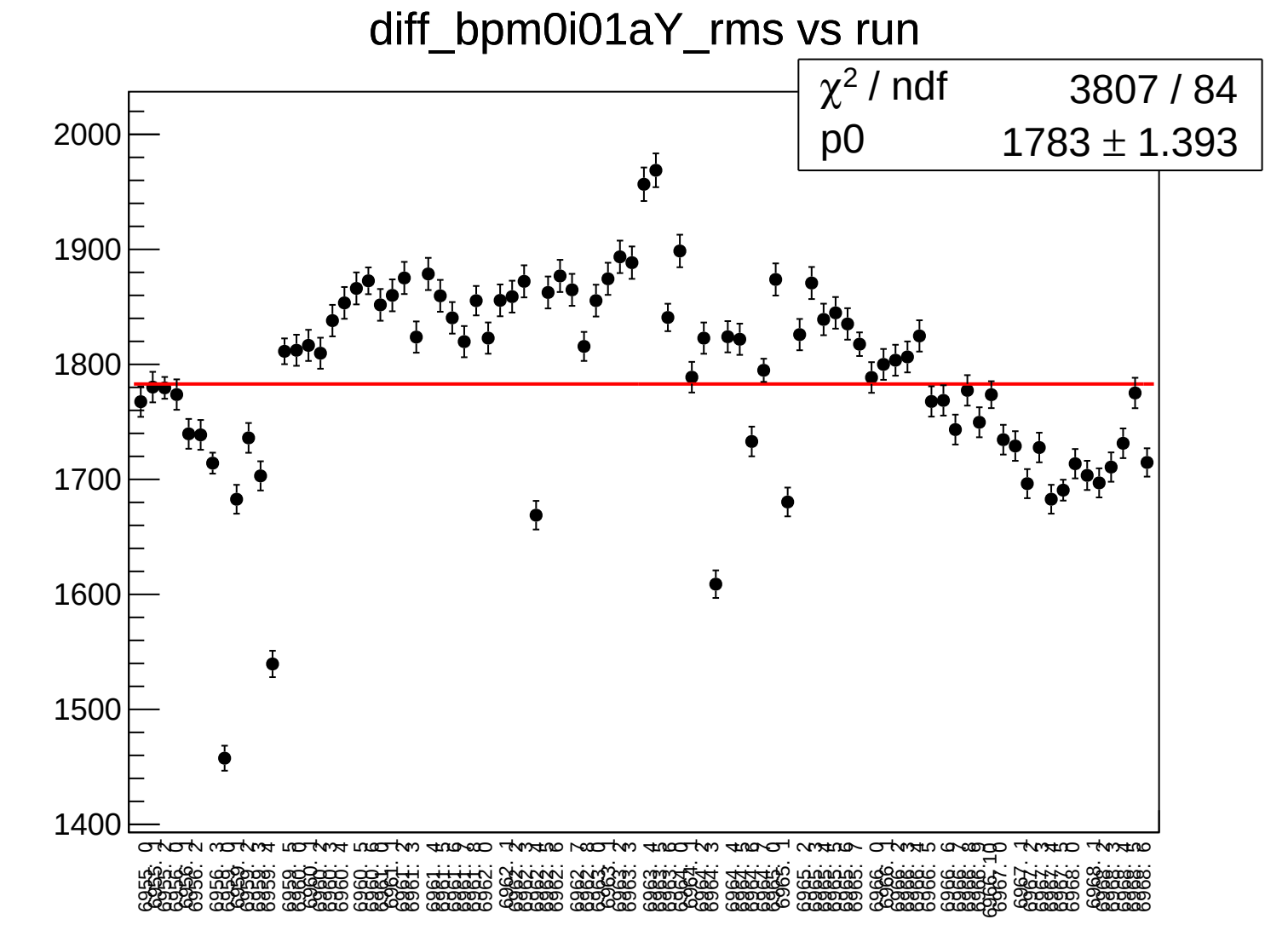

diff_bpm0i01aX_mean vs run
χ² / ndf 80.92 / 84
p0 14.58 ± 2.295
pull
Entries 85
Mean −167
Std Dev 0

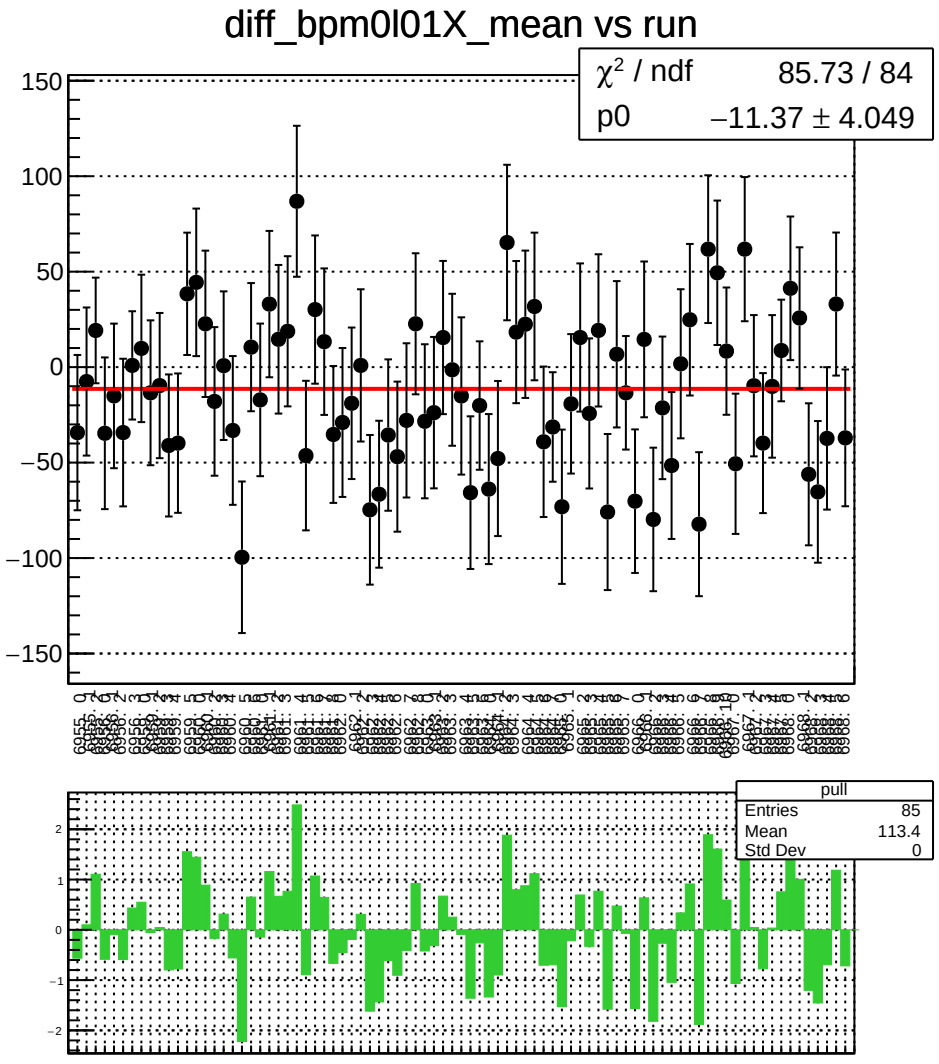

pull1D
Entries 85
Mean −0.01341
Std Dev 0.9756

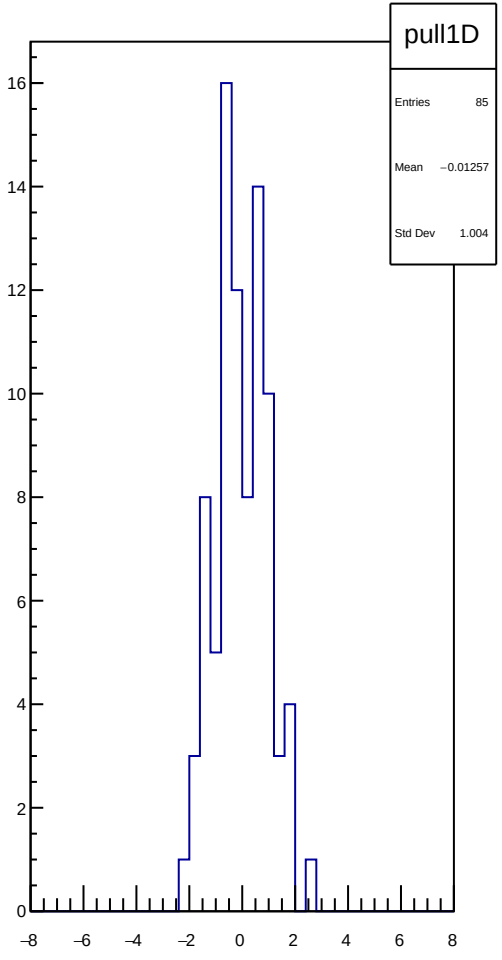

diff_bpm0i01aX_rms vs run
$\chi^2$ / ndf 8326 / 84
p0 2075 ± 1.623
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

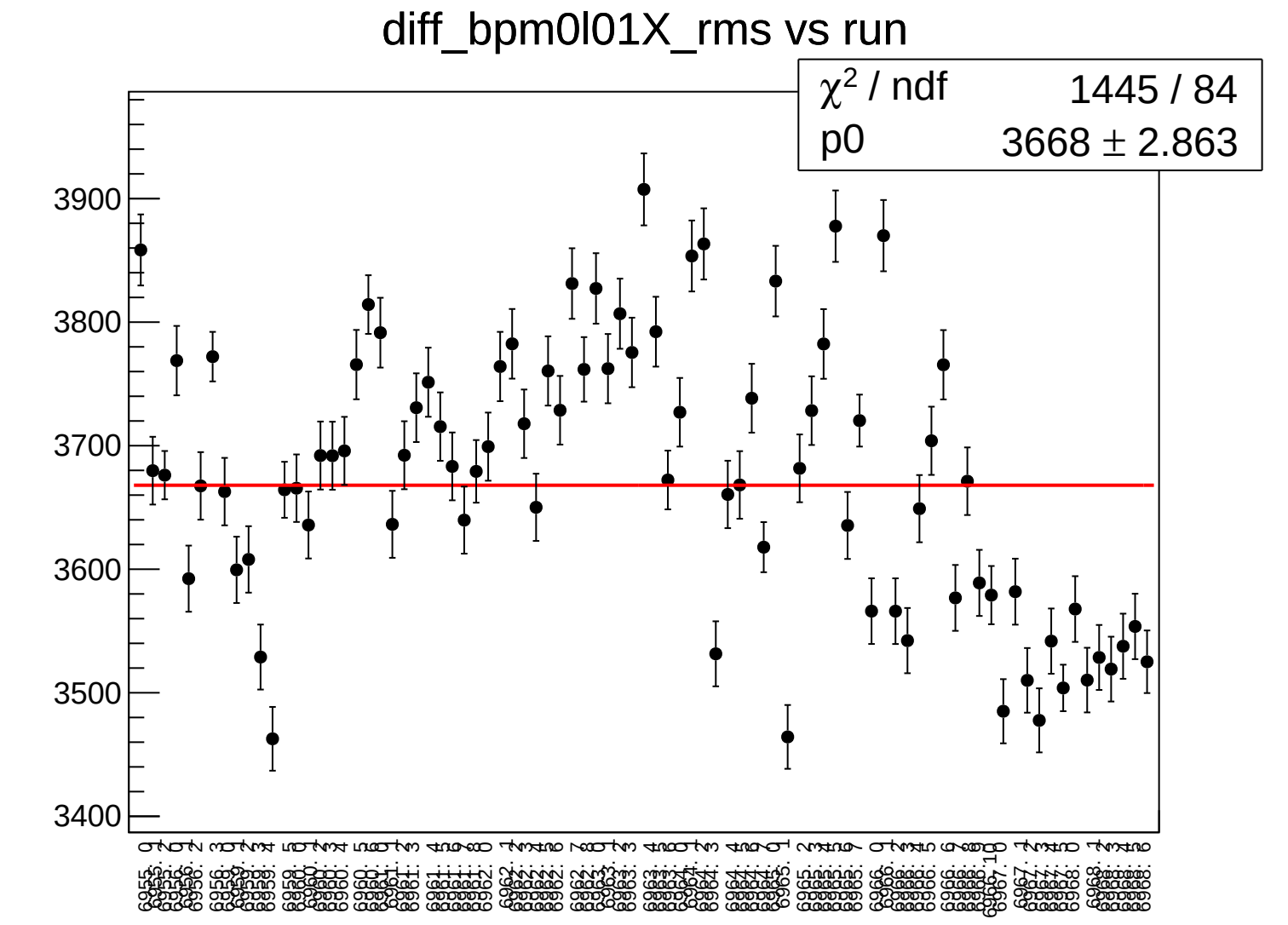

diff_bpm0i01aY_mean vs run
χ² / ndf 83.2 / 84
p0 −3.391 ± 1.97
pull
Entries 85
Mean 361.3
Std Dev 0

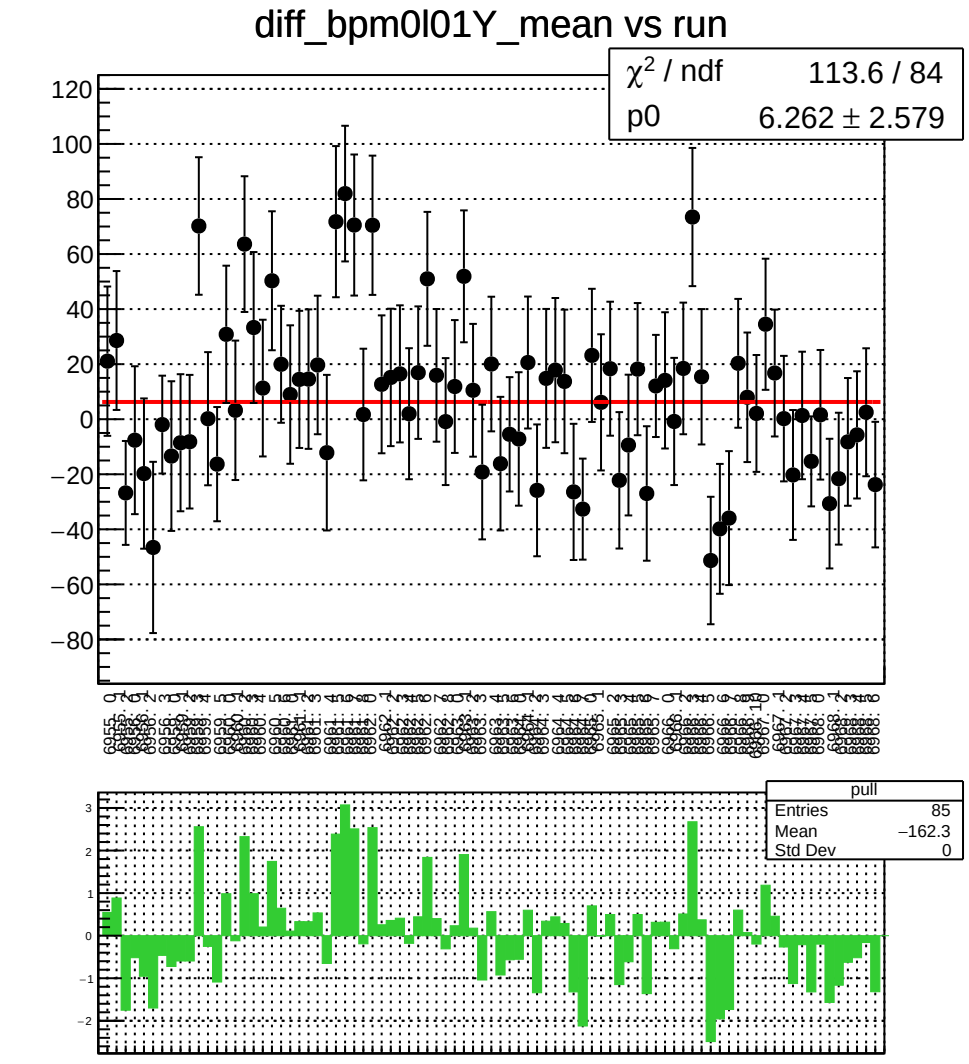

pull1D
Entries 85
Mean 0.006005
Std Dev 0.9893

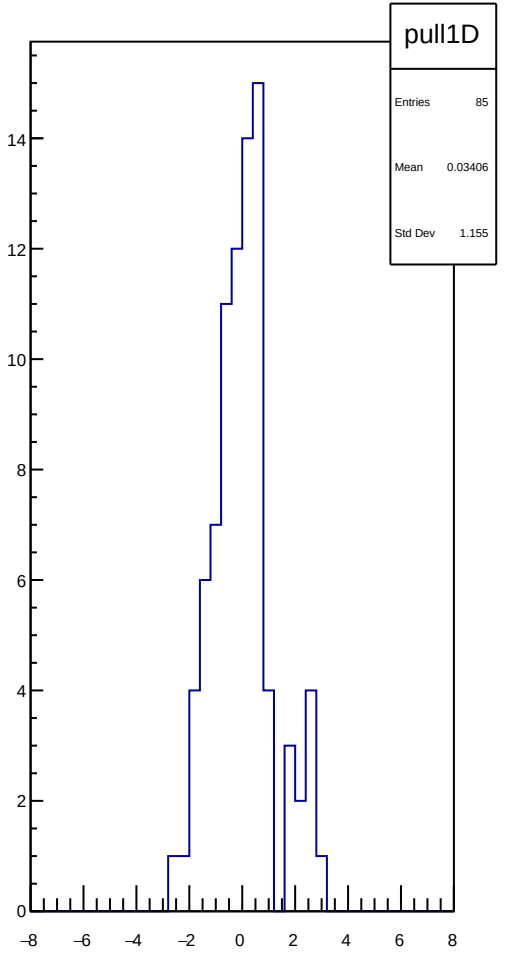

diff_bpm0i01aY_rms vs run
$\chi^2$ / ndf 3807 / 84
p0 1783 ± 1.393
2000
1900
1800
1700
1600
1500
1400

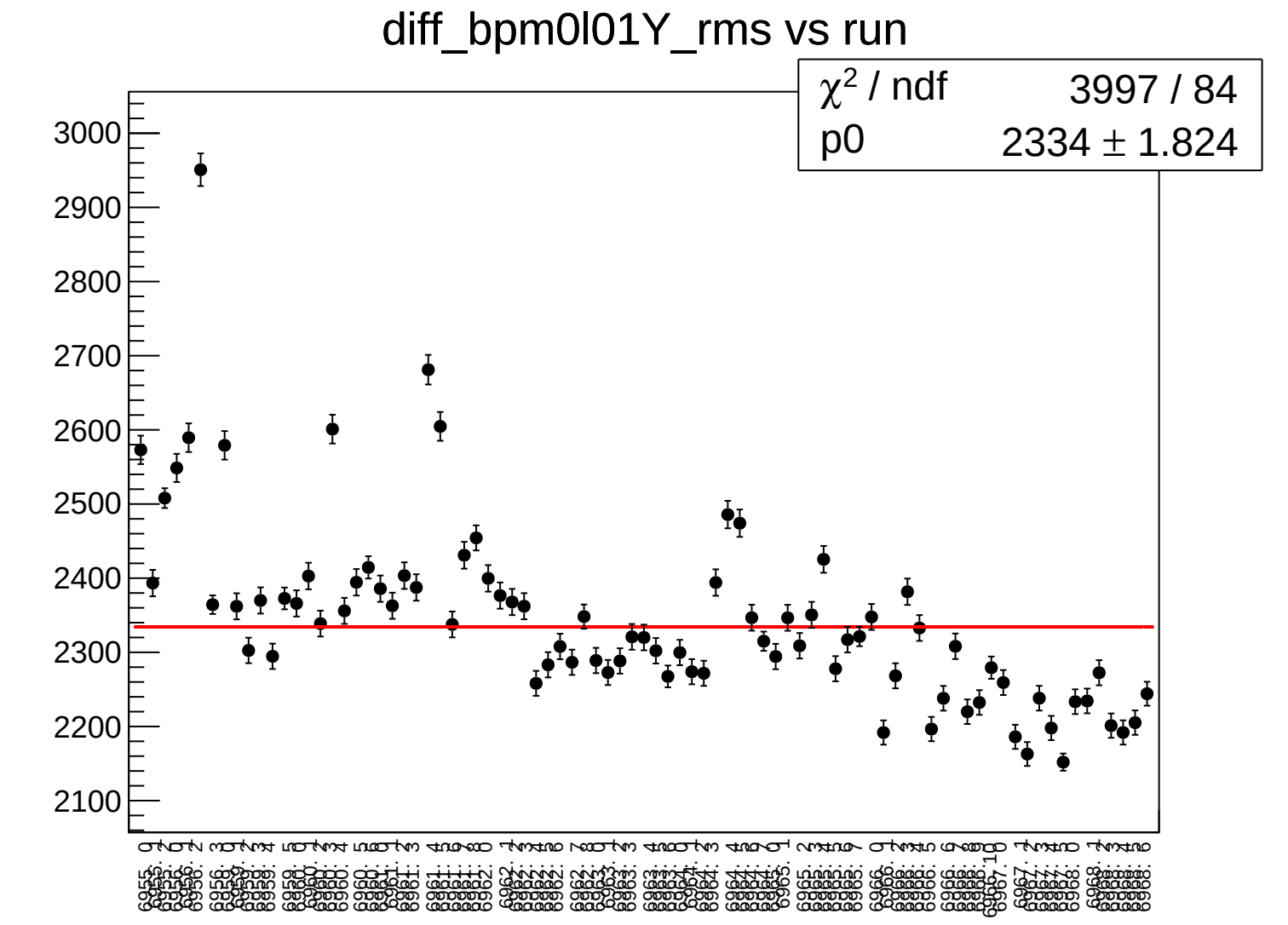

diff_bpm0l01X_mean vs run
χ² / ndf 85.73 / 84
p0 −11.37 ± 4.049
pull
Entries 85
Mean 113.4
Std Dev 0

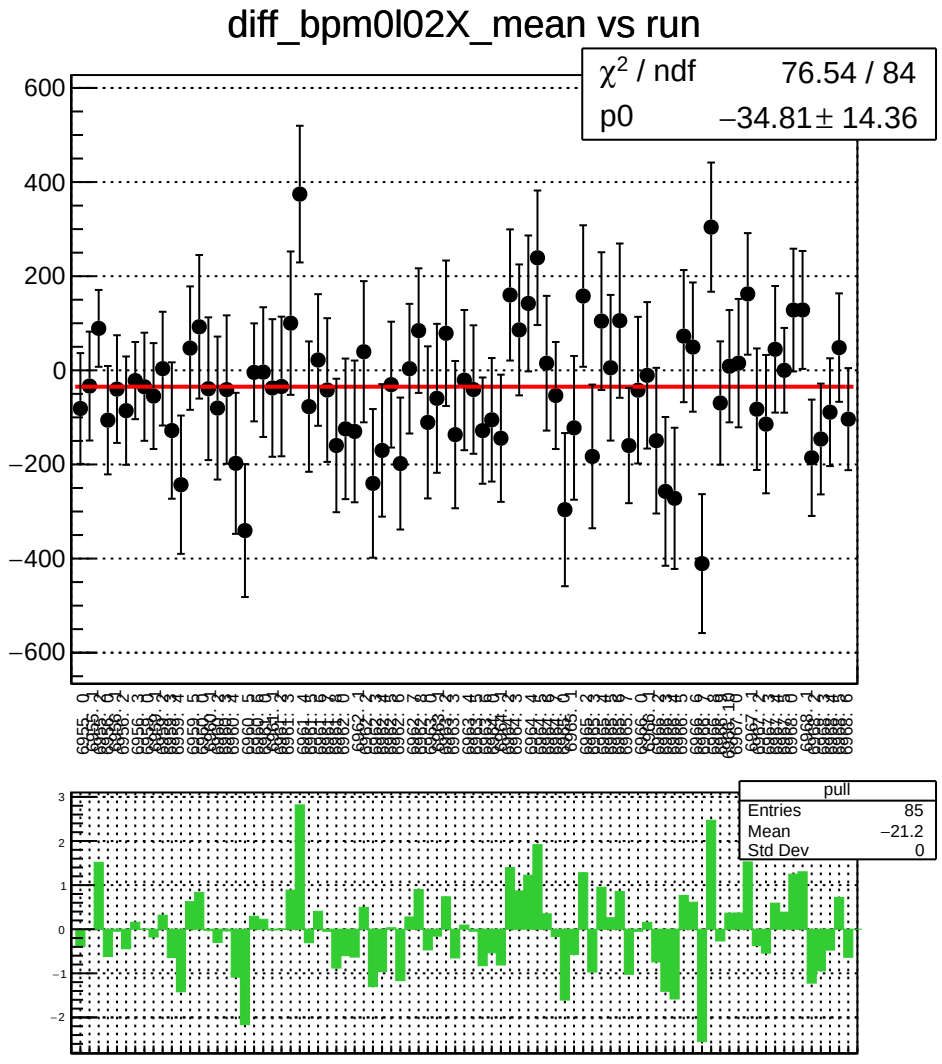

pull1D
Entries 85
Mean −0.01257
Std Dev 1.004

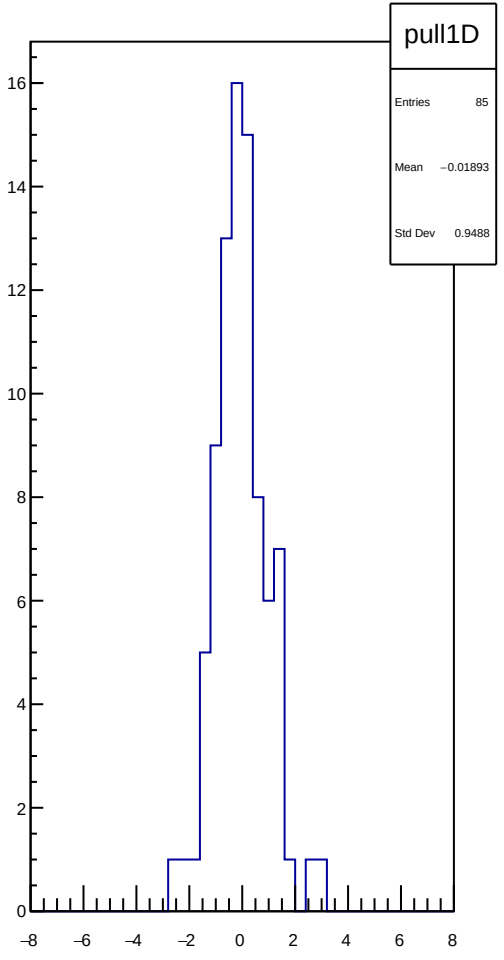

diff_bpm0l01X_rms vs run
$\chi^2$ / ndf 1445 / 84
p0 3668 ± 2.863
3900
3800
3700
3600
3500
3400

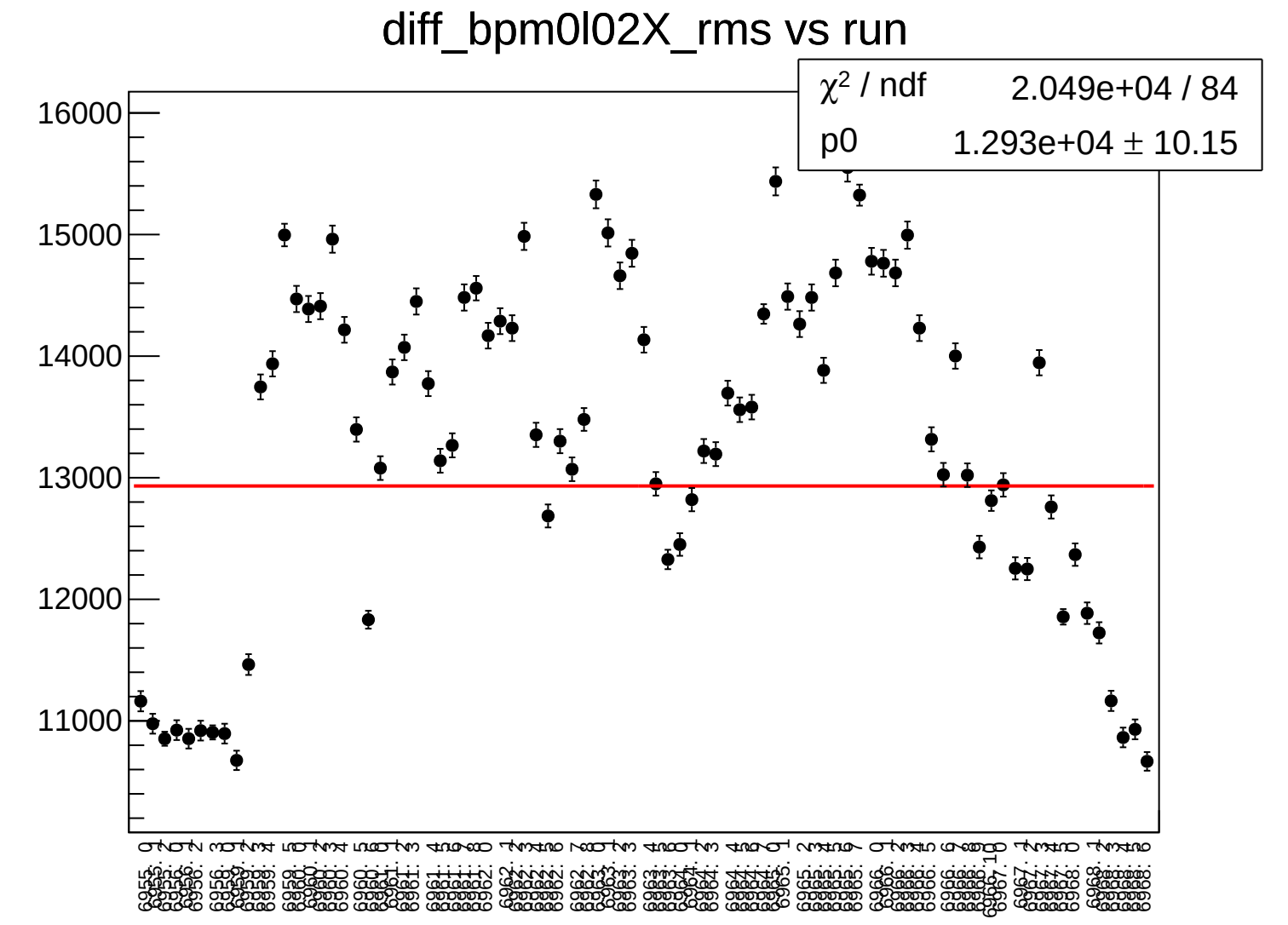

diff_bpm0l01Y_mean vs run
χ² / ndf 113.6 / 84
p0 6.262 ± 2.579
pull
Entries 85
Mean −162.3
Std Dev 0

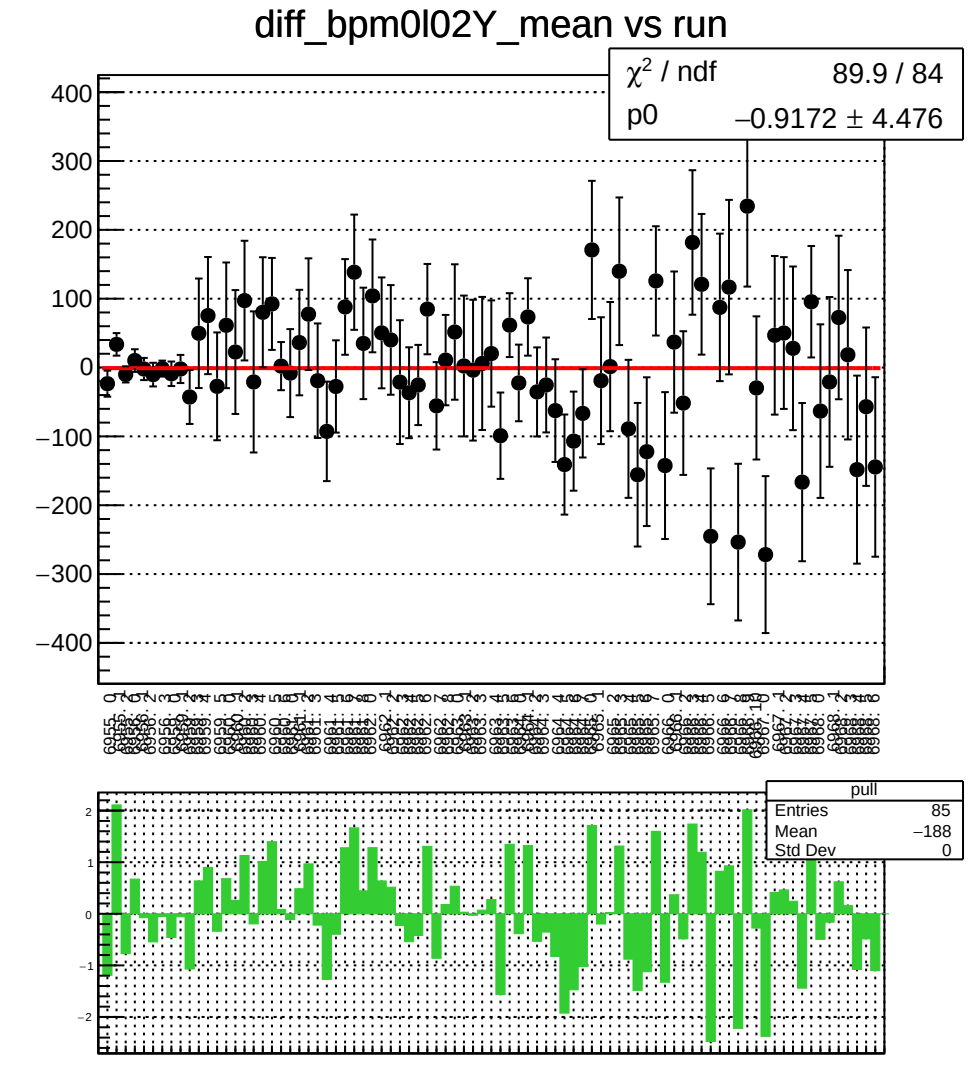

pull1D
Entries 85
Mean 0.03406
Std Dev 1.155

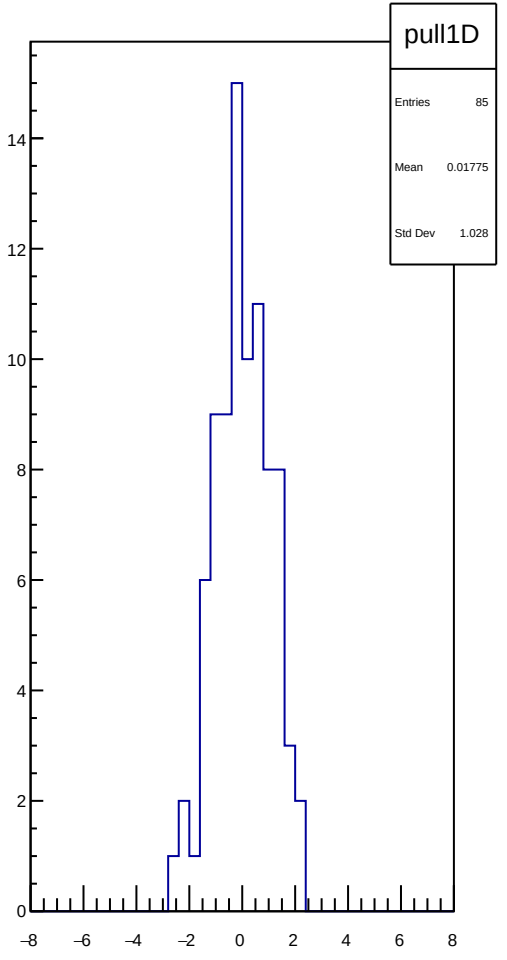

diff_bpm0l01Y_rms vs run
χ² / ndf 3997 / 84
p0 2334 ± 1.824
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100

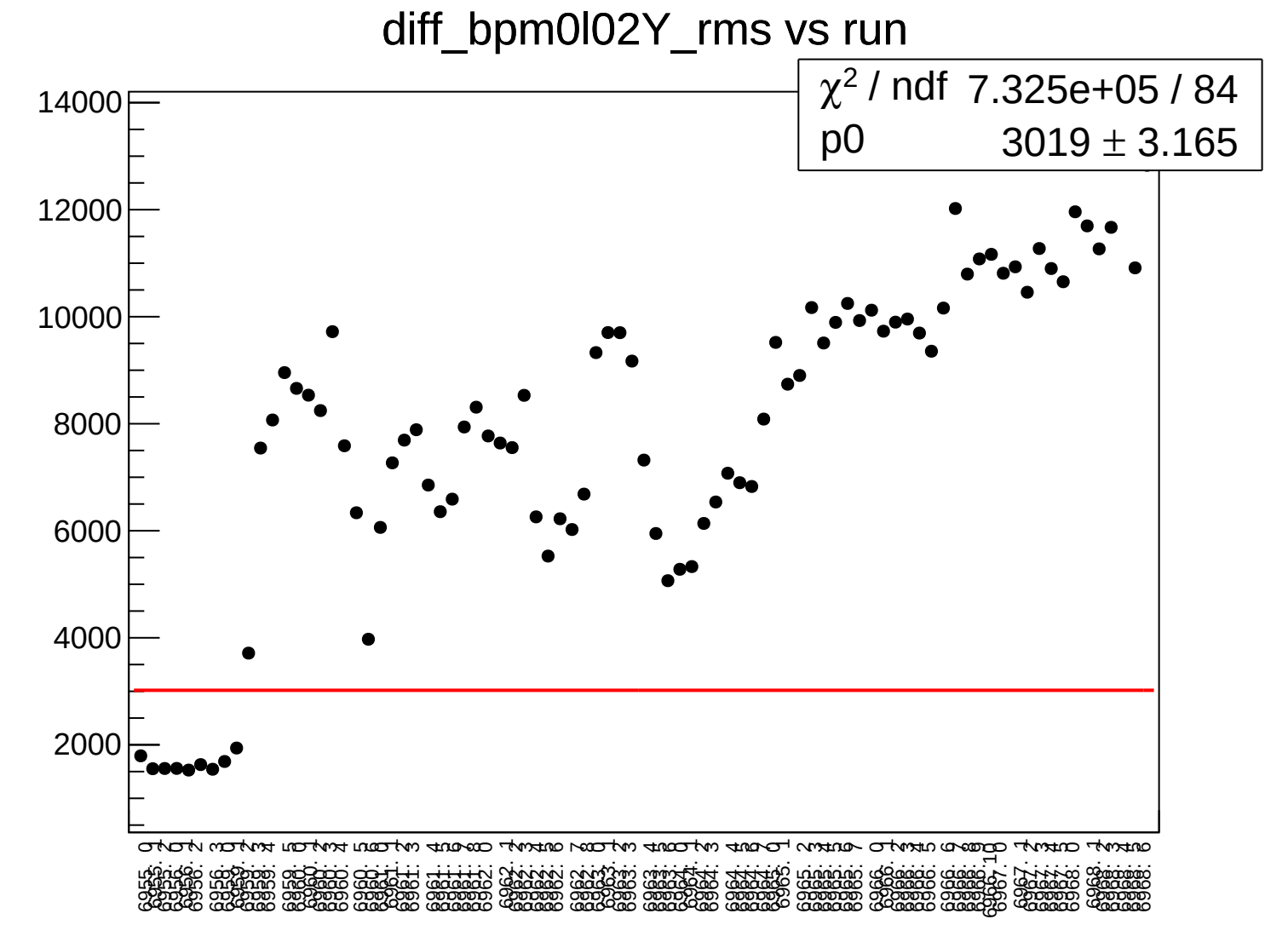

diff_bpm0l02X_mean vs run
χ² / ndf 76.54 / 84
p0 −34.81 ± 14.36
pull
Entries 85
Mean −21.2
Std Dev 0

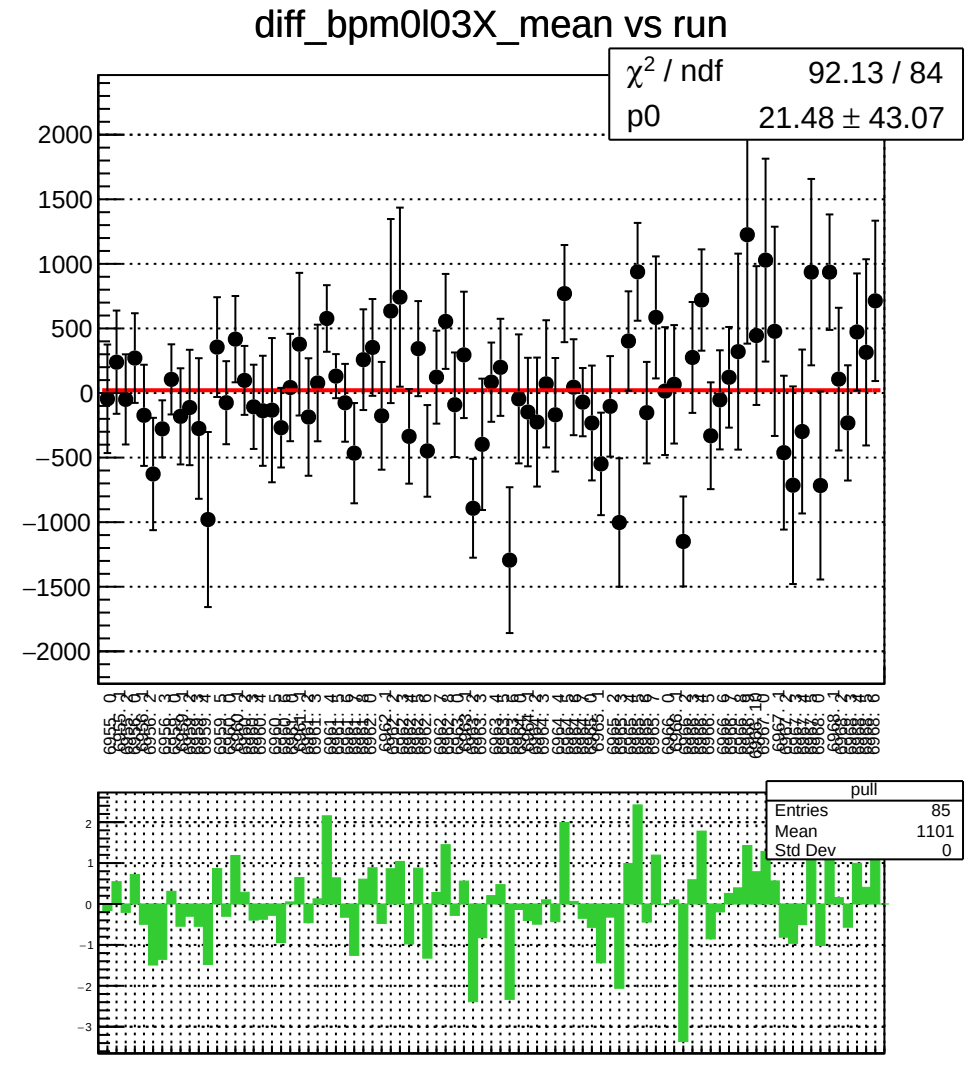

pull1D
Entries 85
Mean −0.01893
Std Dev 0.9488

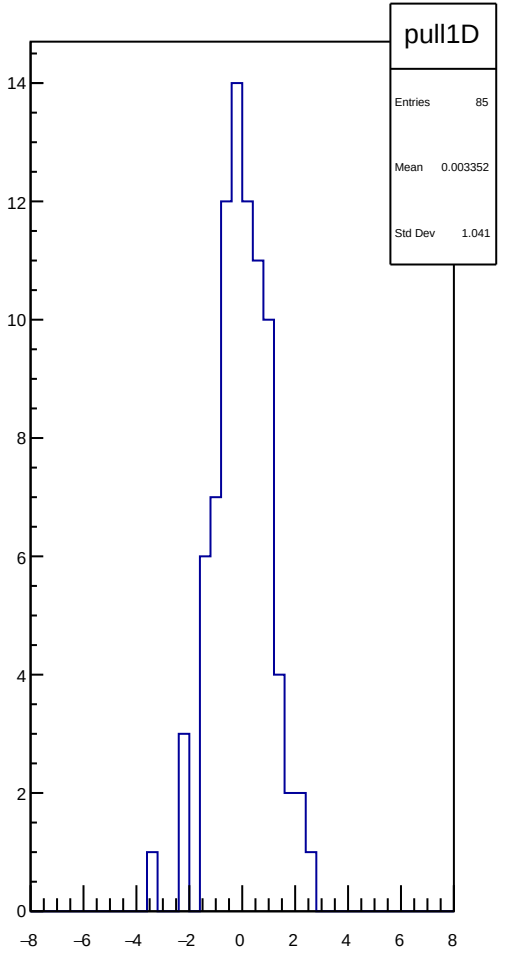

diff_bpm0l02X_rms vs run
χ² / ndf 2.049e+04 / 84
p0 1.293e+04 ± 10.15
16000
15000
14000
13000
12000
11000

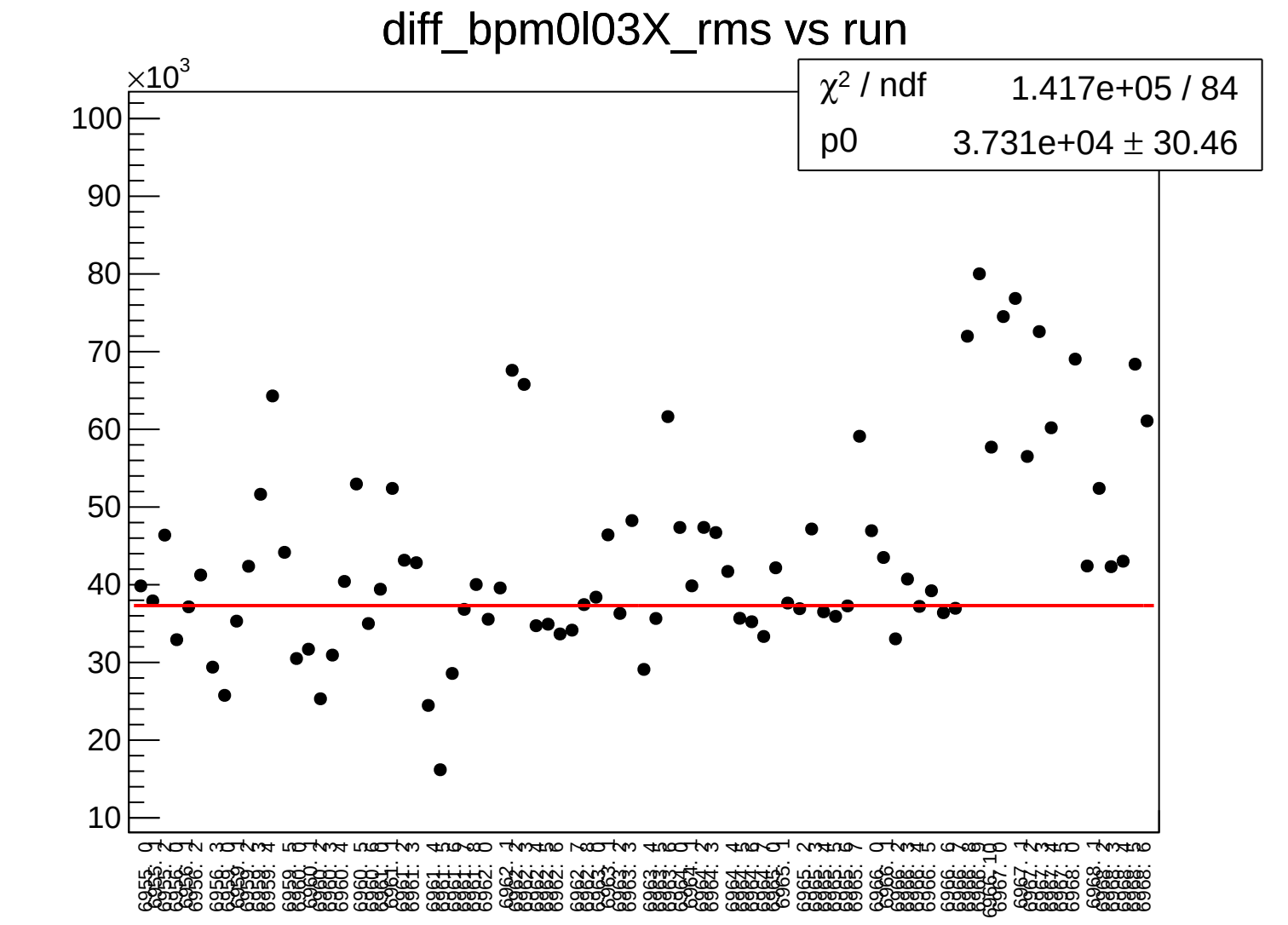

diff_bpm0l02Y_mean vs run
χ² / ndf 89.9 / 84
p0 −0.9172 ± 4.476
pull
Entries 85
Mean −188
Std Dev 0

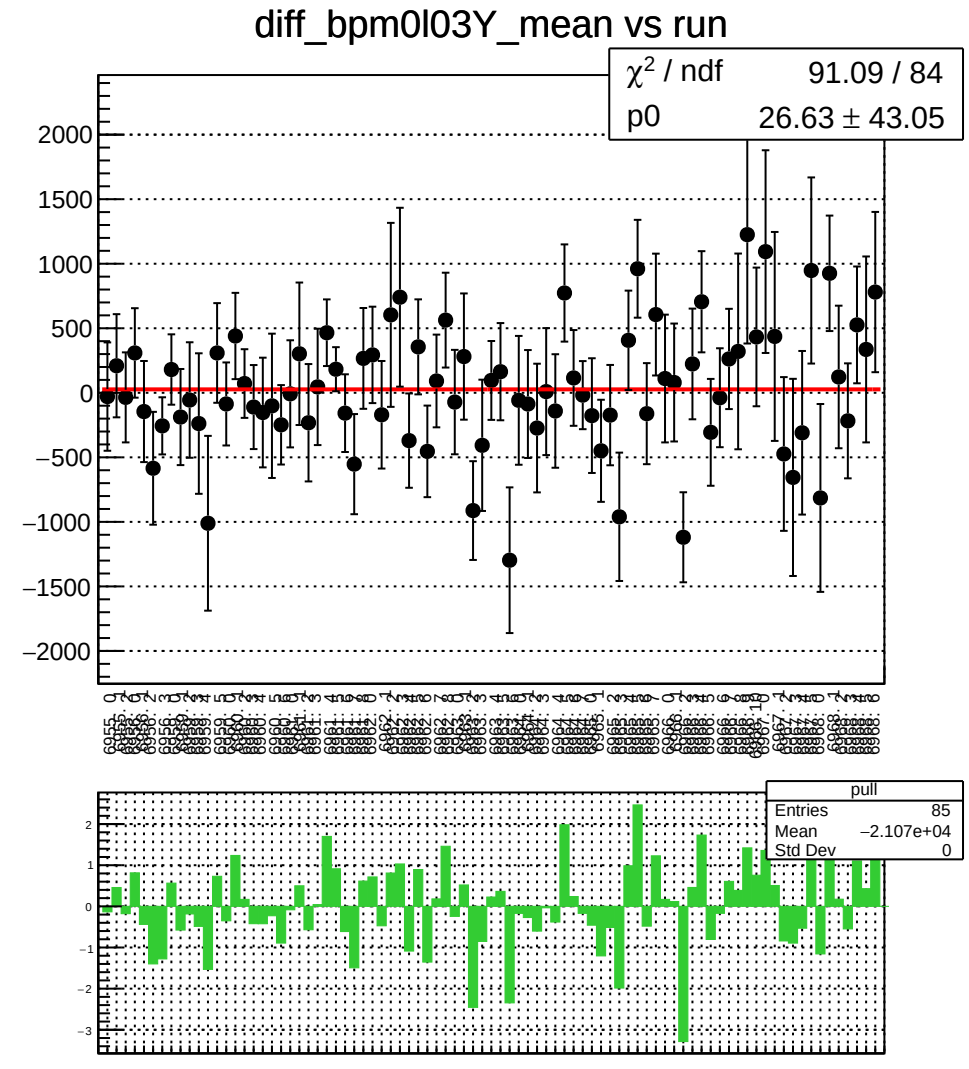

pull1D
Entries 85
Mean 0.01775
Std Dev 1.028

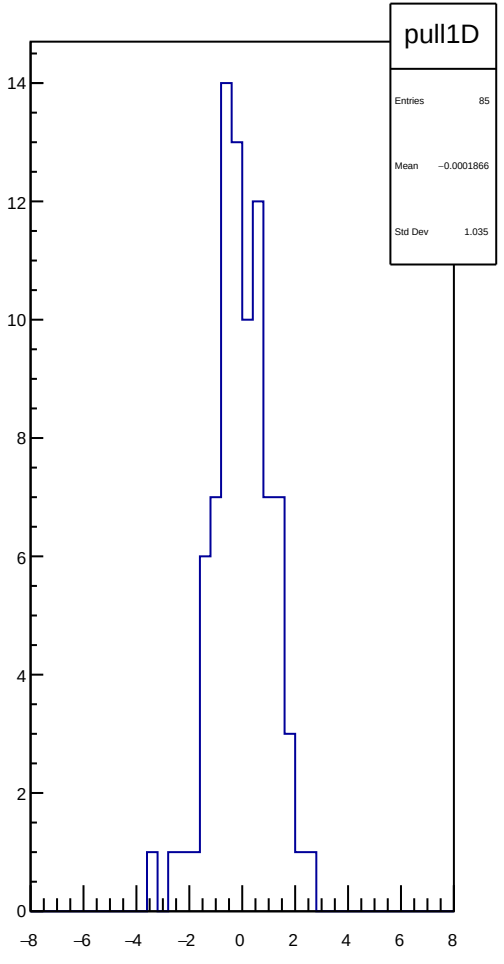

diff_bpm0l02Y_rms vs run
χ² / ndf 7.325e+05 / 84
p0 3019 ± 3.165
14000
12000
10000
8000
6000
4000
2000

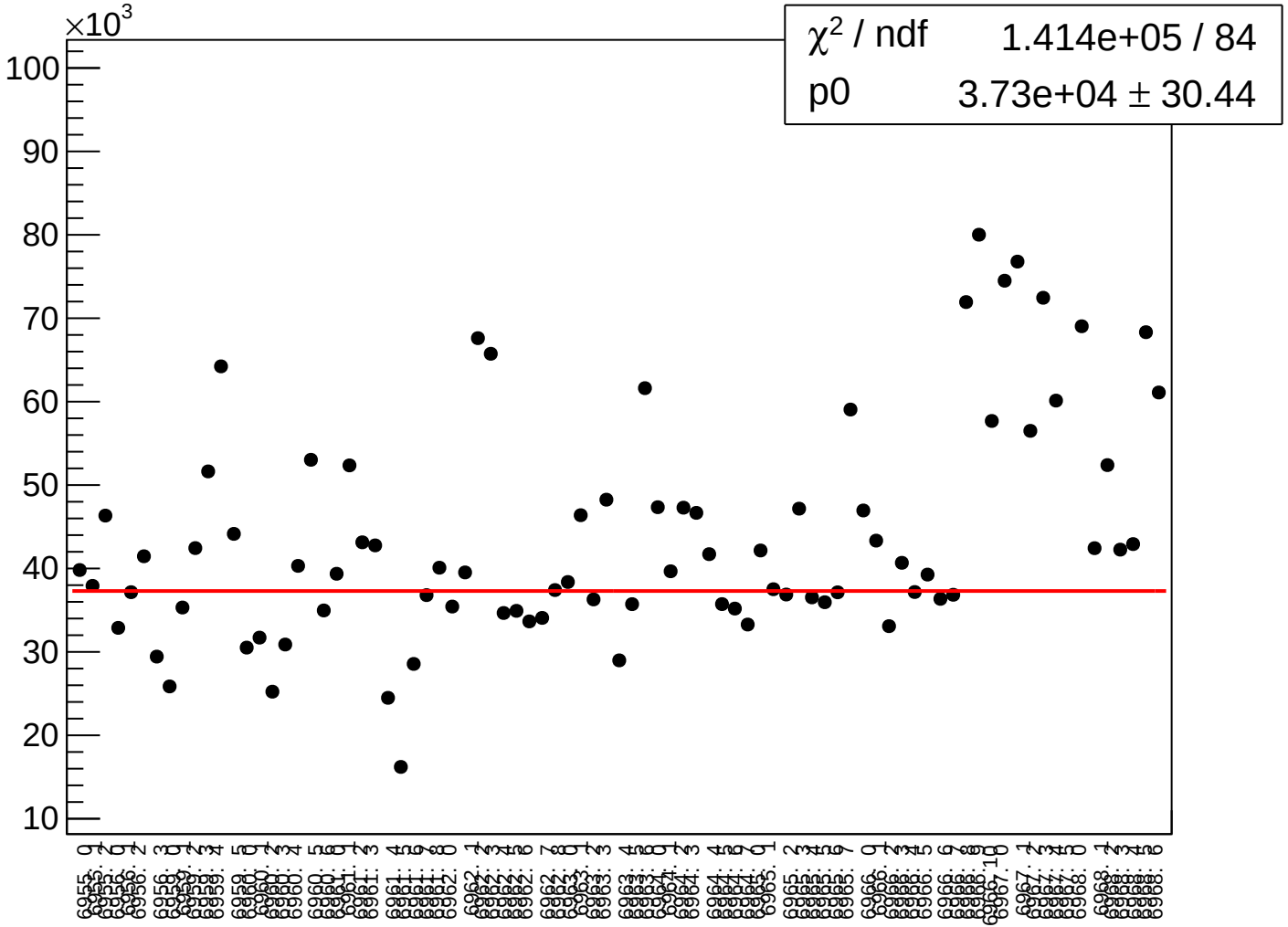

diff_bpm0l03X_mean vs run
χ² / ndf 92.13 / 84
p0 21.48 ± 43.07
pull
Entries 85
Mean 1101
Std Dev 0

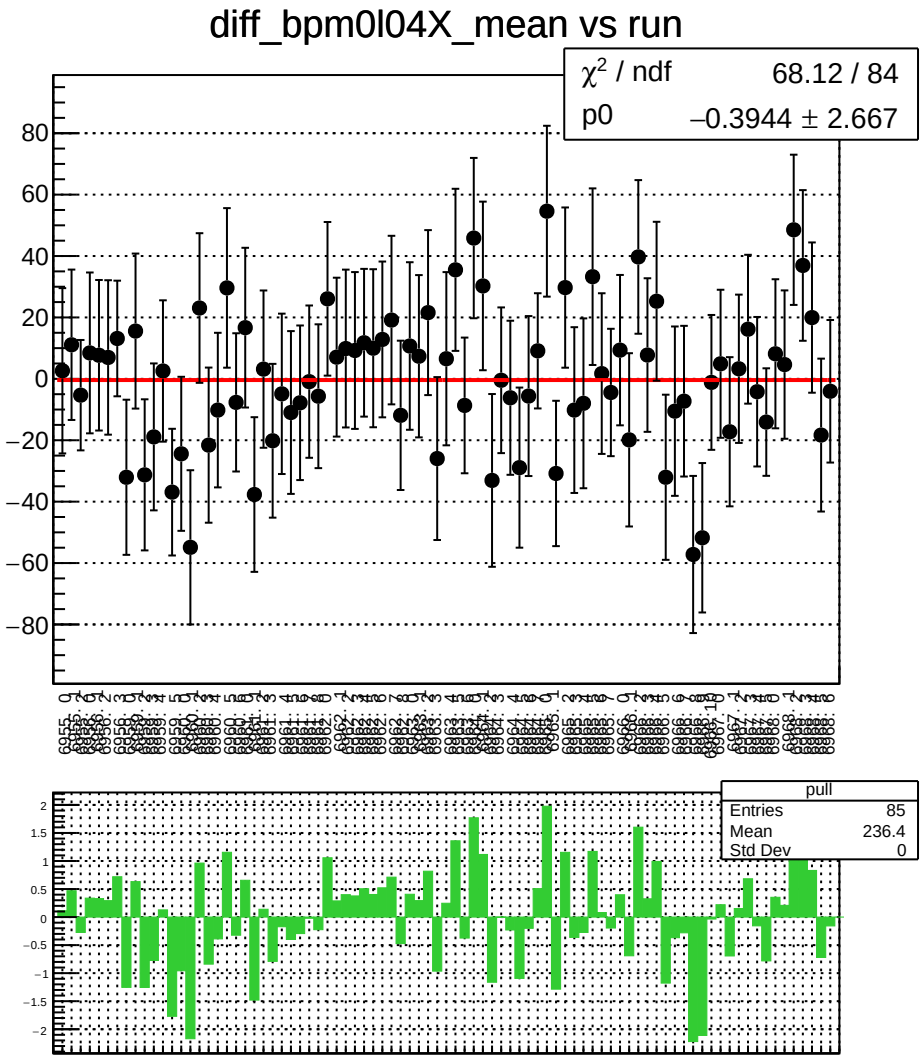

pull1D
Entries 85
Mean 0.003352
Std Dev 1.041

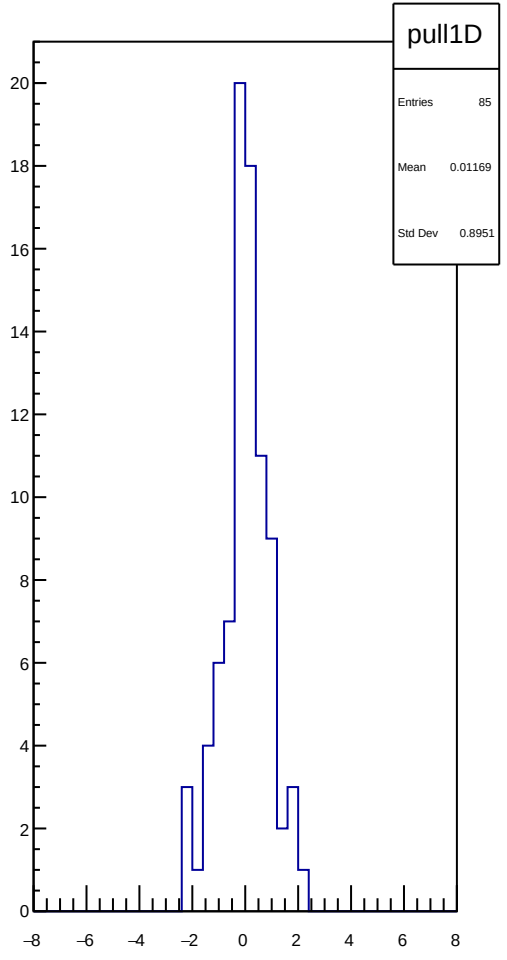

diff_bpm0l03X_rms vs run
×10^3
χ² / ndf 1.417e+05 / 84
p0 3.731e+04 ± 30.46
100
90
80
70
60
50
40
30
20
10

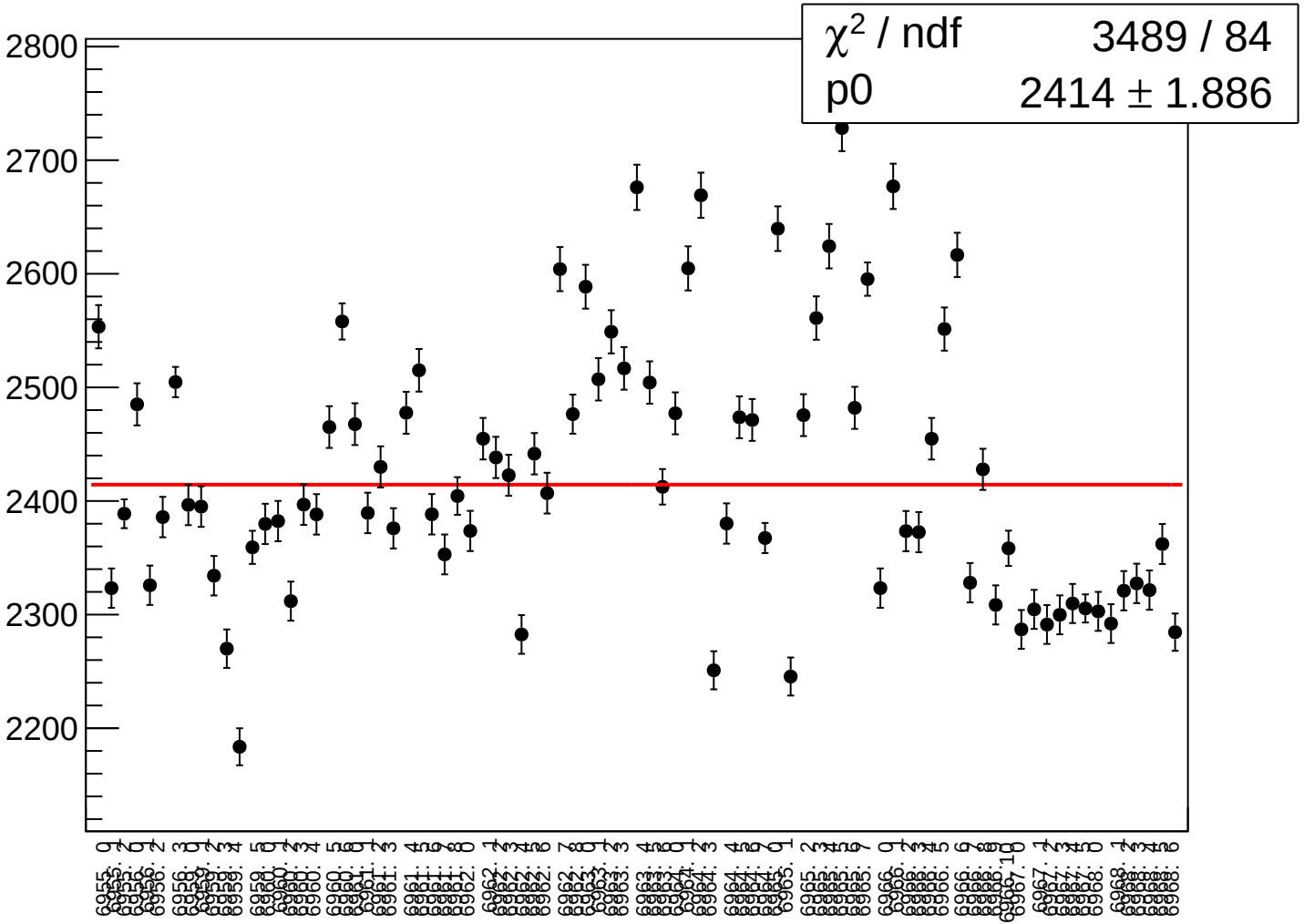

diff_bpm0l03Y_mean vs run
$\chi^2$ / ndf 91.09 / 84
p0 26.63 ± 43.05
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 85
Mean −2.107e+04
Std Dev 0
2
1
0
−1
−2
−3

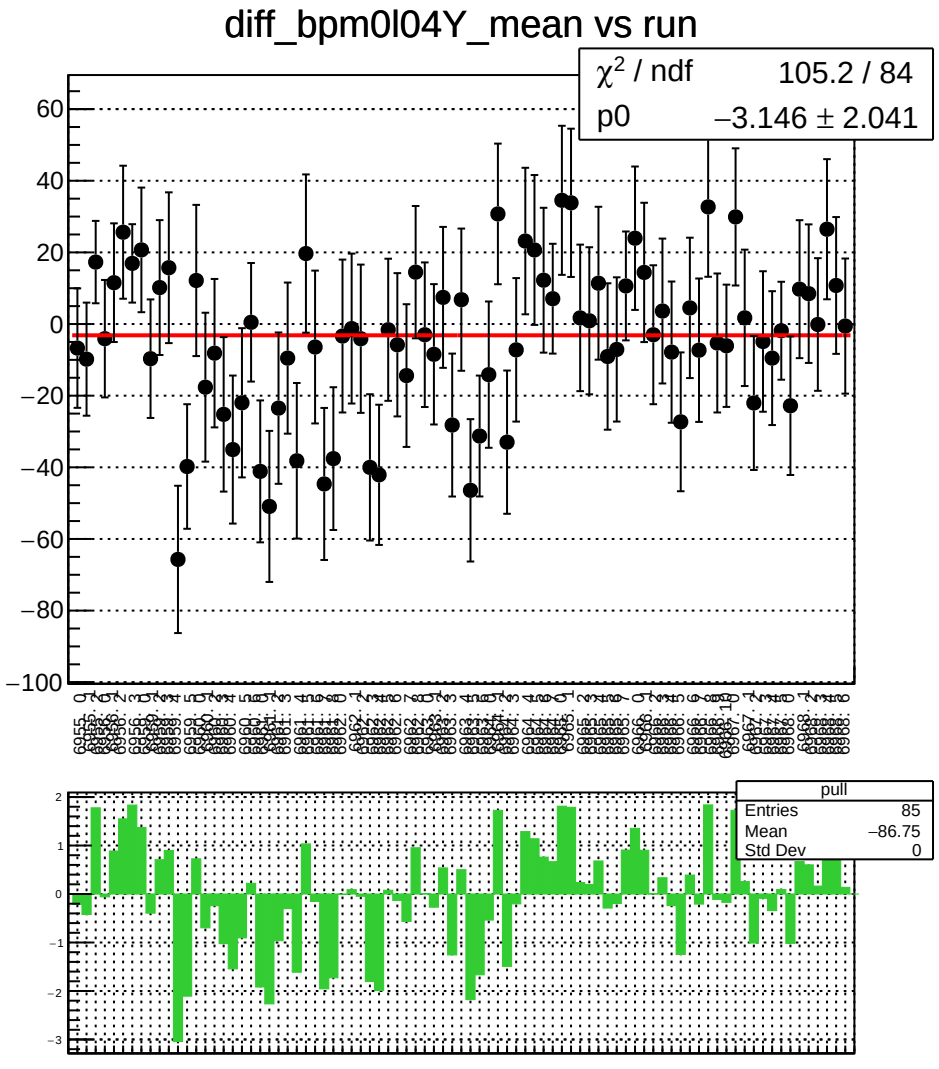

pull1D
Entries 85
Mean −0.0001866
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

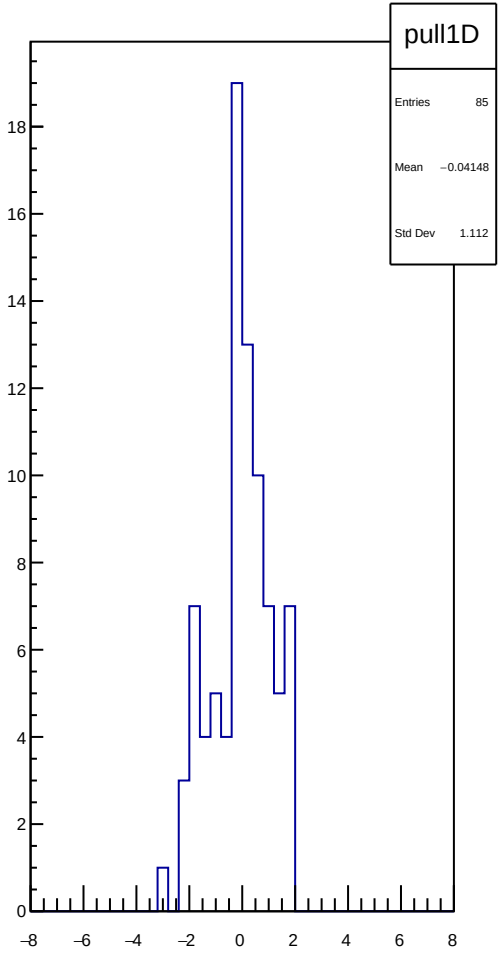

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 1.414e+05 / 84
p0 3.73e+04 ± 30.44
100
90
80
70
60
50
40
30
20
10

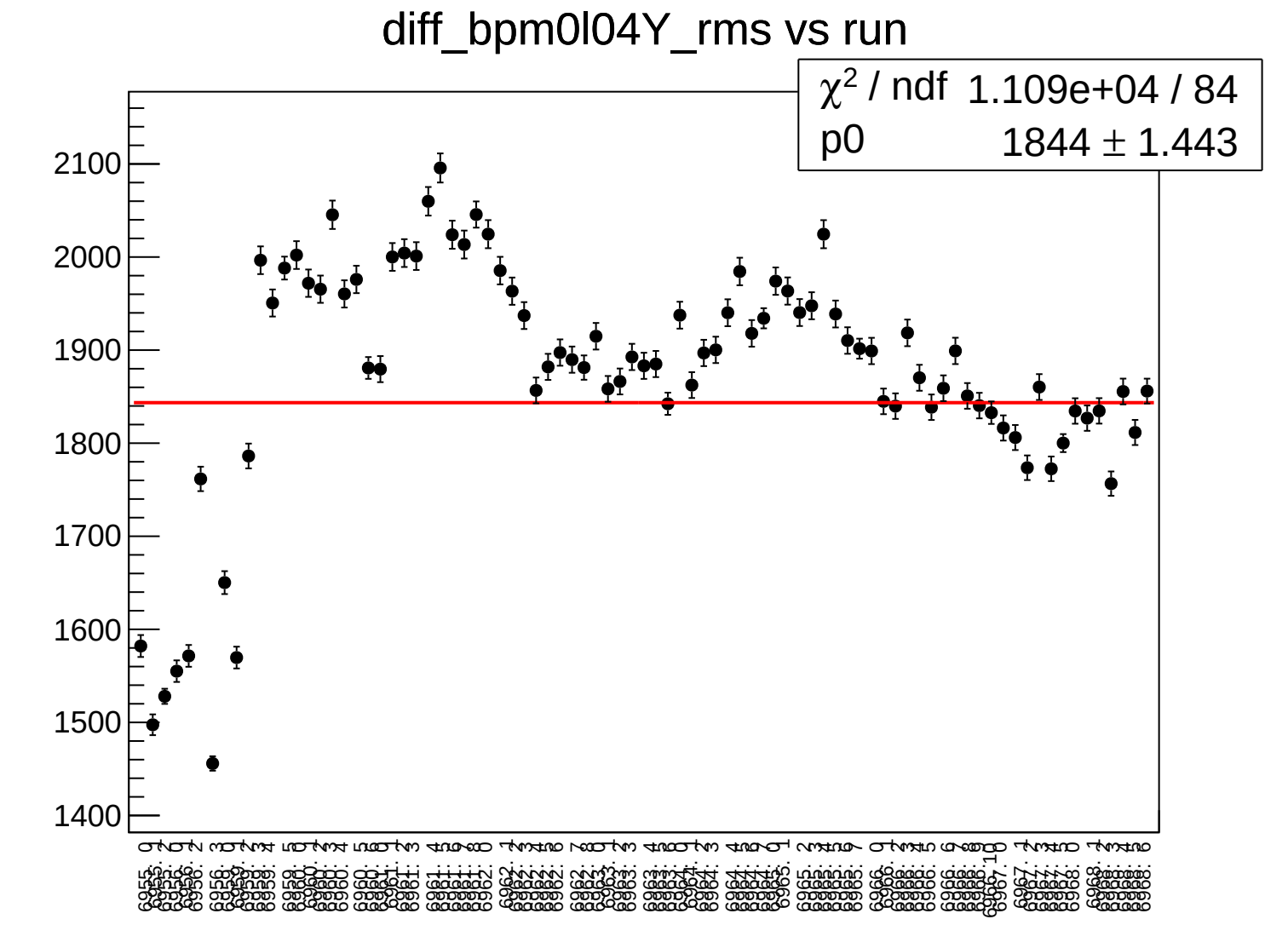

diff_bpm0l04X_mean vs run
χ² / ndf 68.12 / 84
p0 −0.3944 ± 2.667
pull
Entries 85
Mean 236.4
Std Dev 0

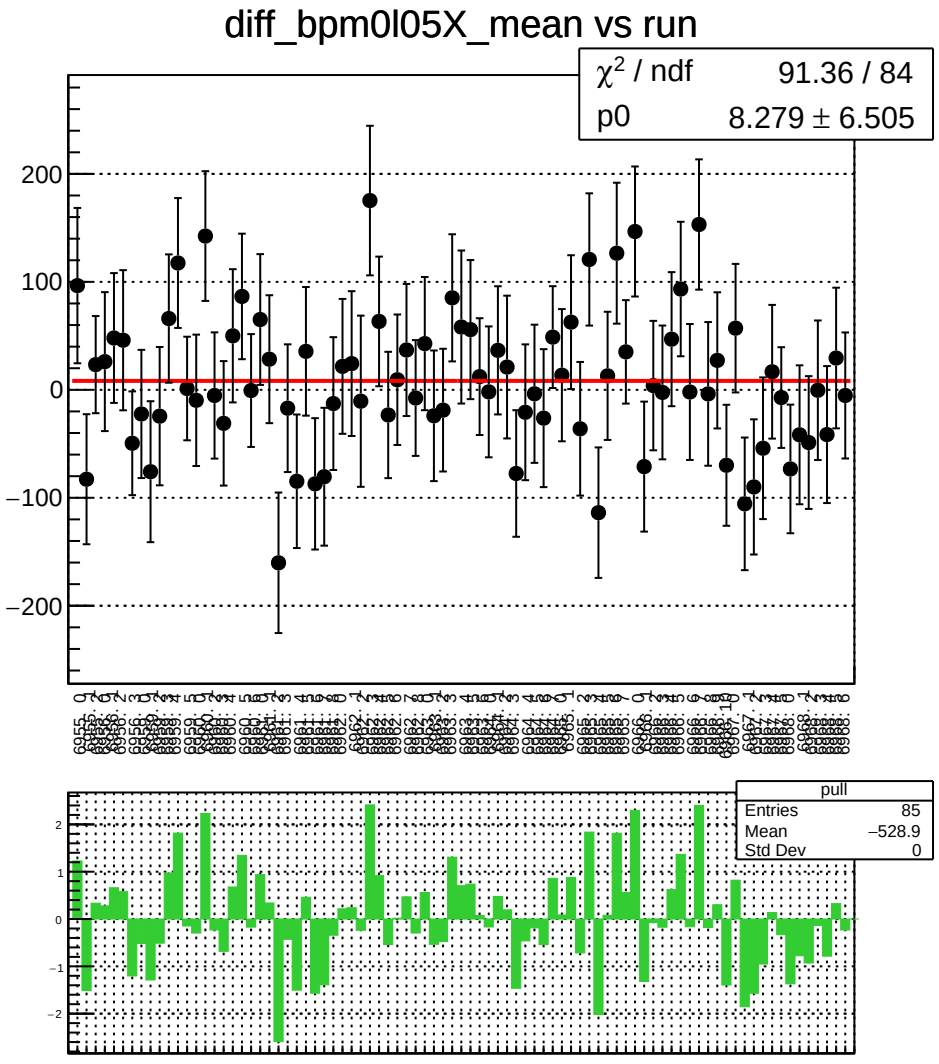

pull1D
Entries 85
Mean 0.01169
Std Dev 0.8951

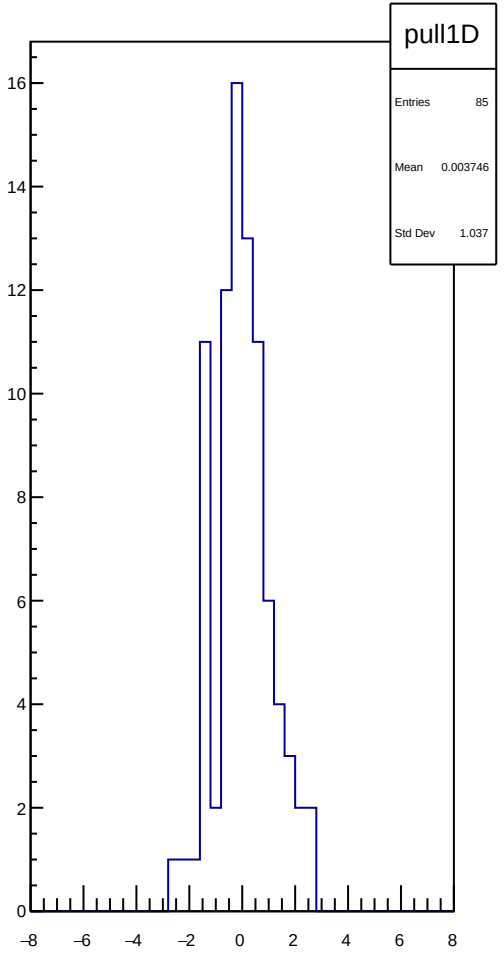

diff_bpm0l04X_rms vs run
χ² / ndf 3489 / 84
p0 2414 ± 1.886
2800
2700
2600
2500
2400
2300
2200

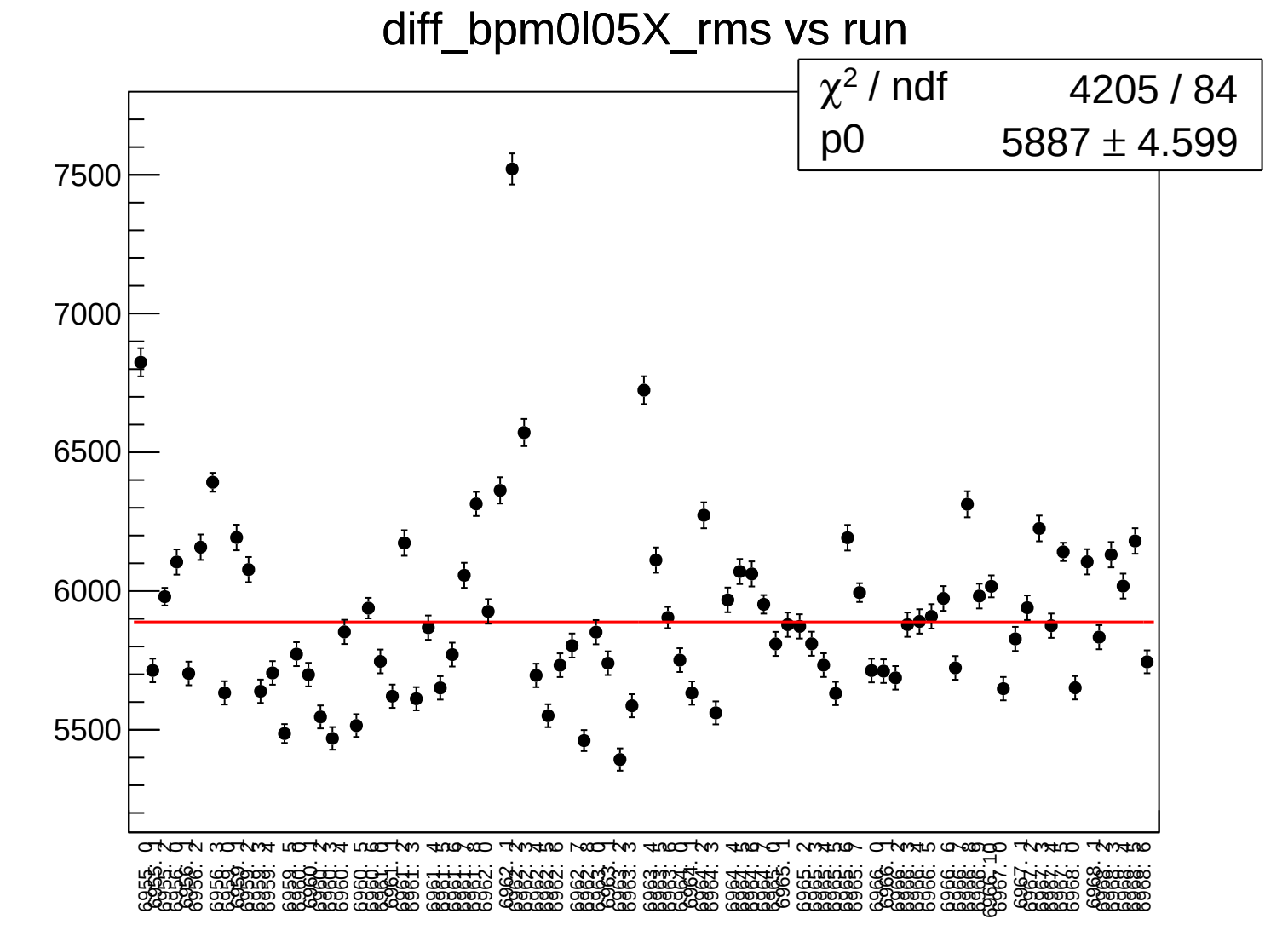

diff_bpm0l04Y_mean vs run
χ² / ndf 105.2 / 84
p0 −3.146 ± 2.041
pull
Entries 85
Mean −86.75
Std Dev 0

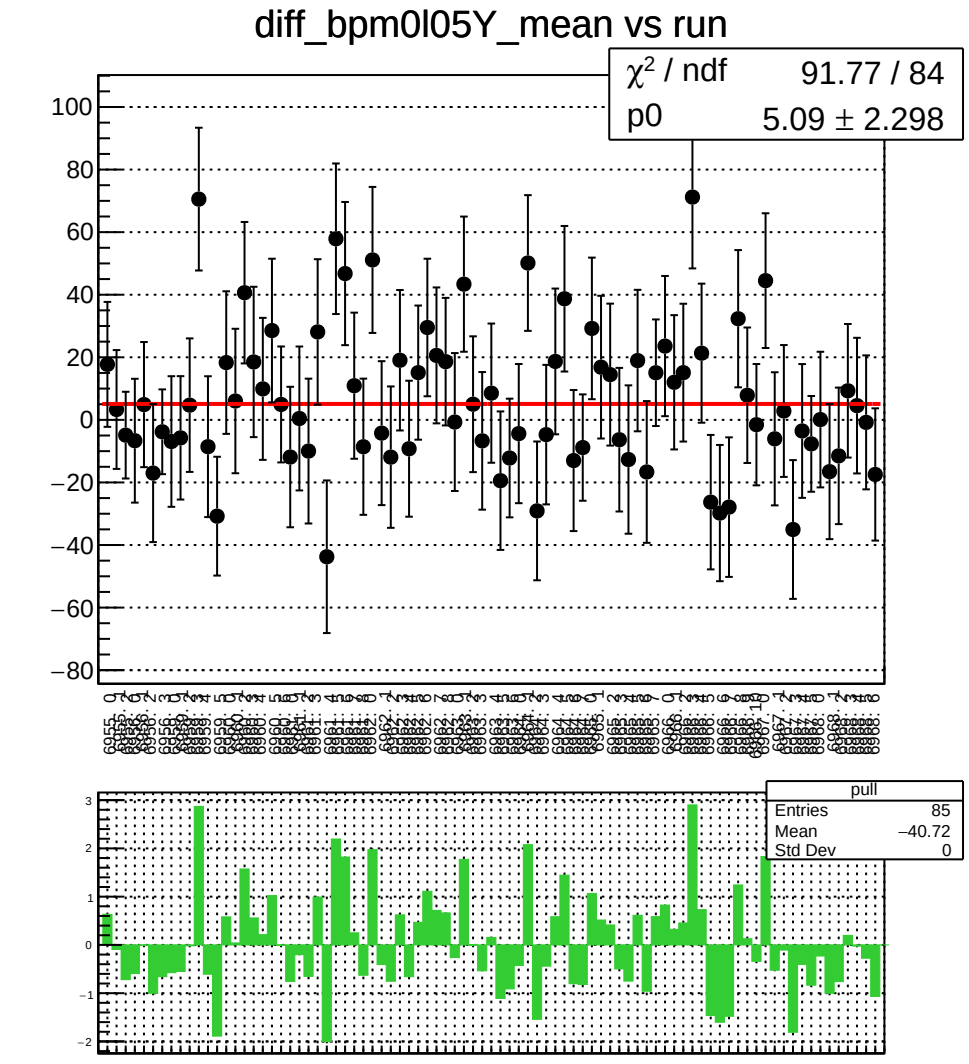

pull1D
Entries 85
Mean −0.04148
Std Dev 1.112

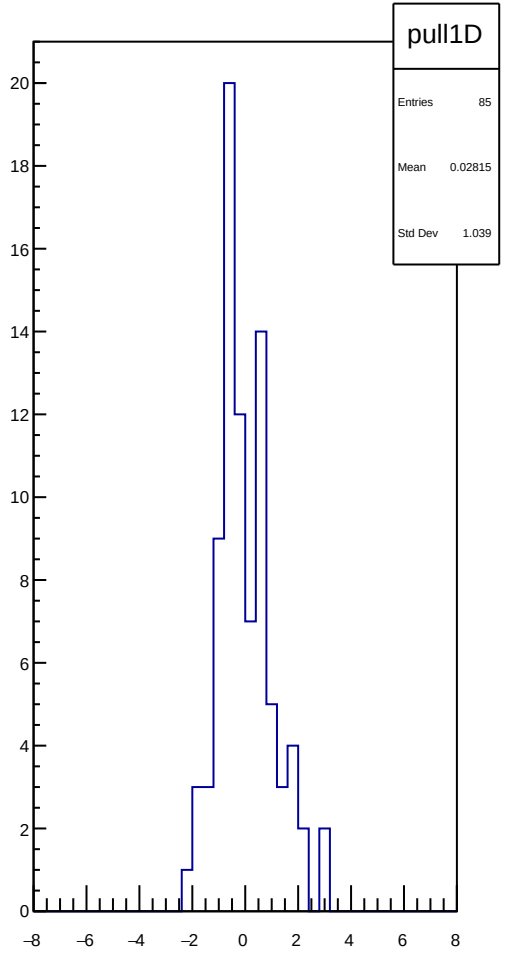

diff_bpm0l04Y_rms vs run
χ² / ndf 1.109e+04 / 84
p0 1844 ± 1.443
2100
2000
1900
1800
1700
1600
1500
1400

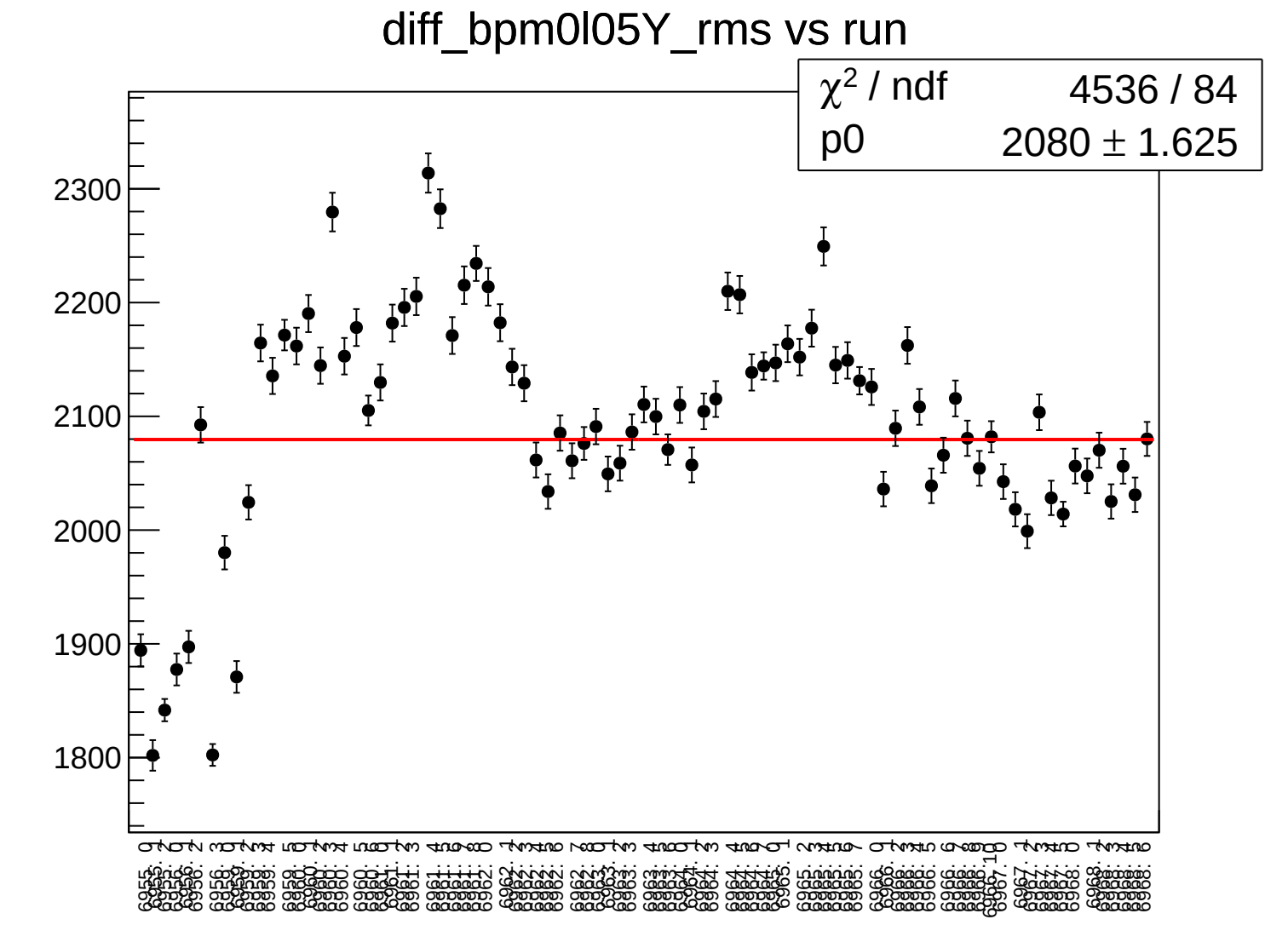

diff_bpm0l05X_mean vs run
$\chi^2$ / ndf 91.36 / 84
p0 8.279 ± 6.505
200
100
0
−100
−200
pull
Entries 85
Mean −528.9
Std Dev 0
2
1
0
−1
−2

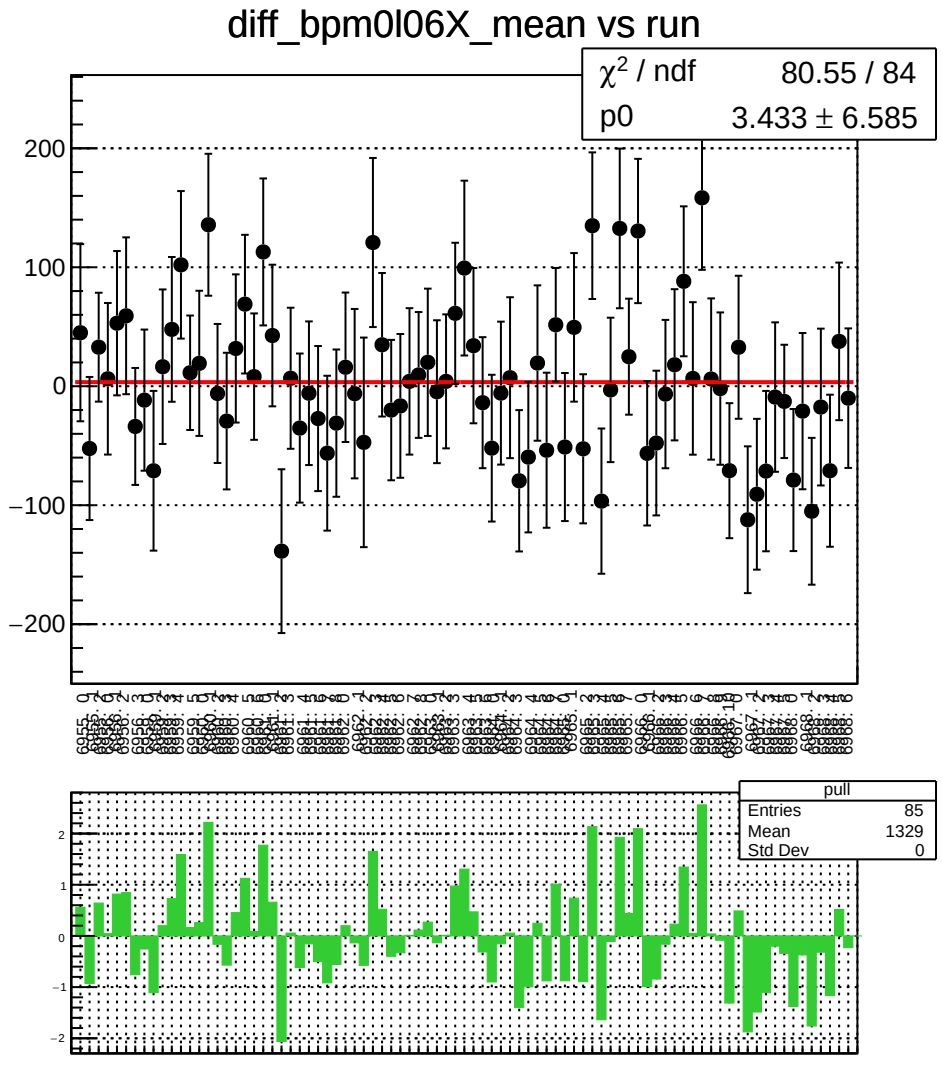

pull1D
Entries 85
Mean 0.003746
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

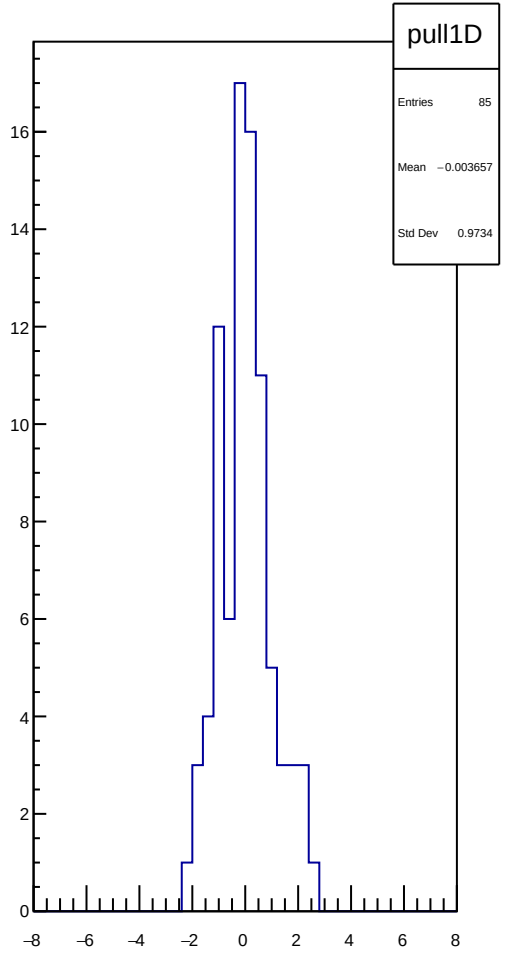

diff_bpm0l05X_rms vs run
χ² / ndf 4205 / 84
p0 5887 ± 4.599
7500
7000
6500
6000
5500

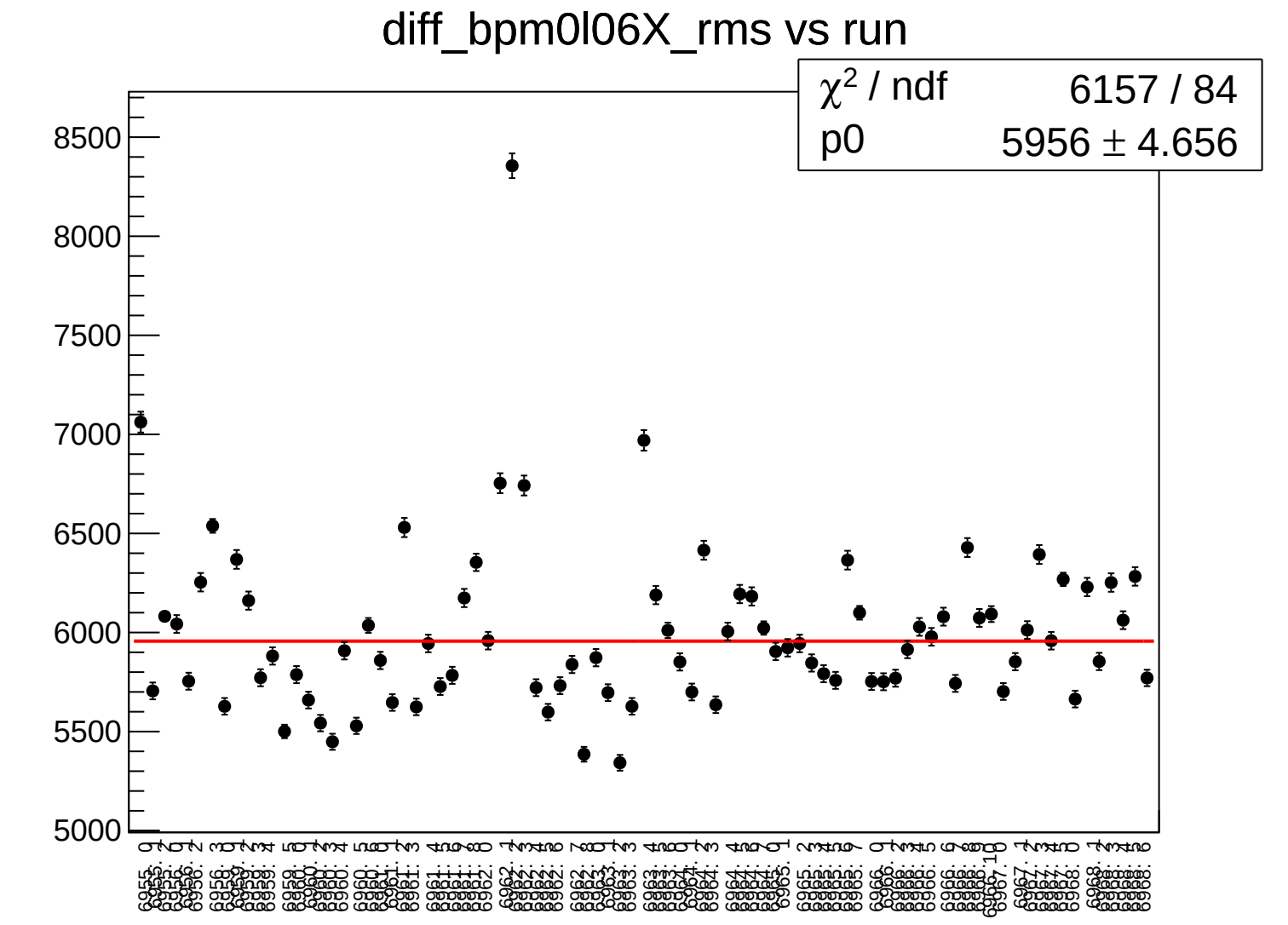

diff_bpm0l05Y_mean vs run
χ² / ndf 91.77 / 84
p0 5.09 ± 2.298
pull
Entries 85
Mean −40.72
Std Dev 0

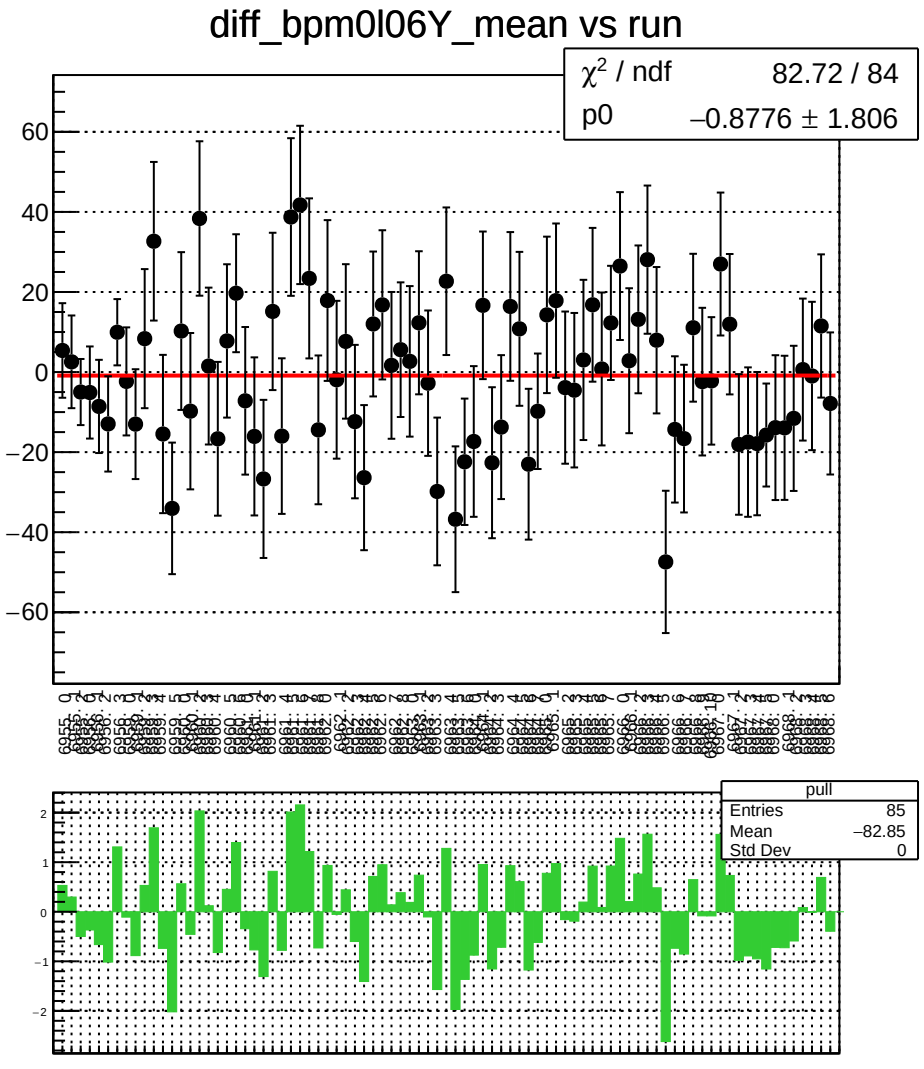

pull1D
Entries 85
Mean 0.02815
Std Dev 1.039

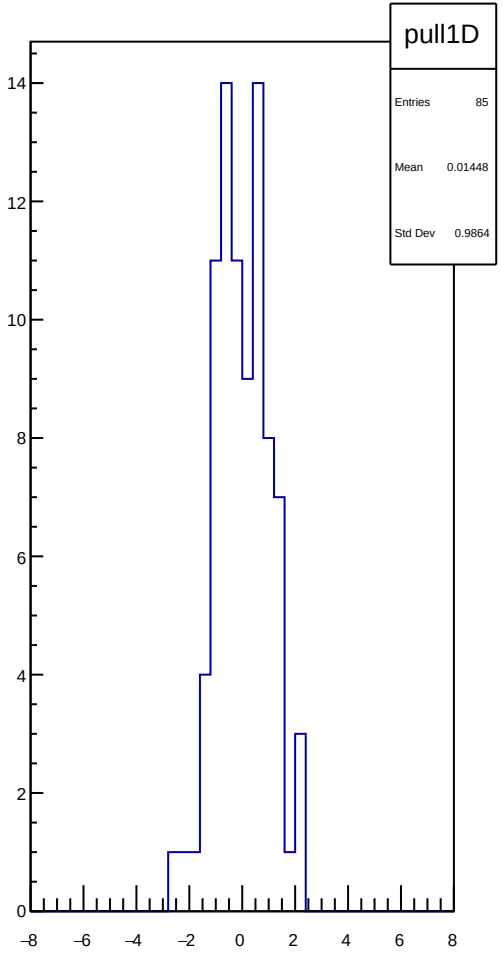

diff_bpm0l05Y_rms vs run
χ² / ndf 4536 / 84
p0 2080 ± 1.625
2300
2200
2100
2000
1900
1800

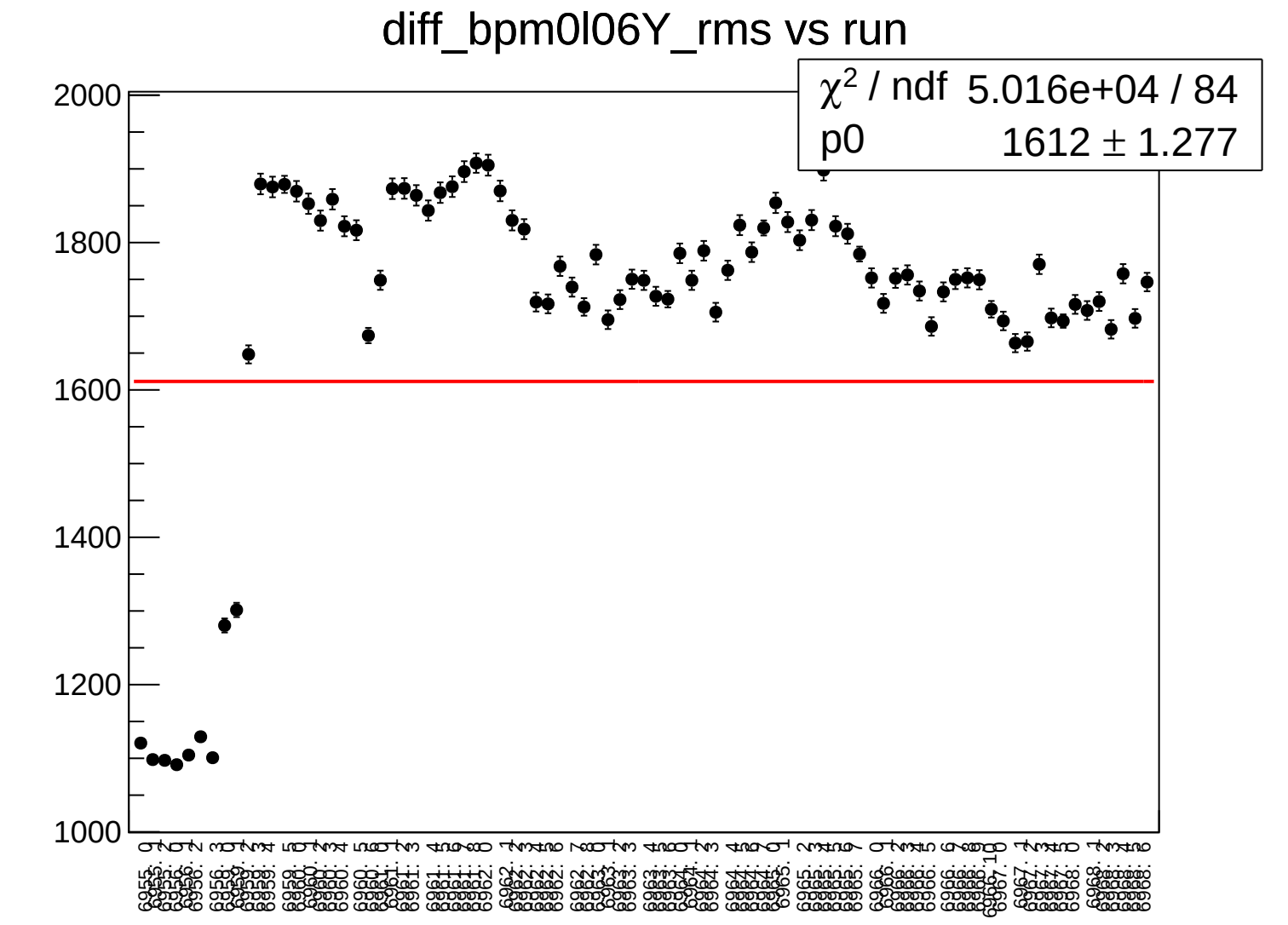

diff_bpm0l06X_mean vs run
$\chi^2$ / ndf 80.55 / 84
p0 3.433 ± 6.585
200
100
0
−100
−200
pull
Entries 85
Mean 1329
Std Dev 0
2
1
0
−1
−2

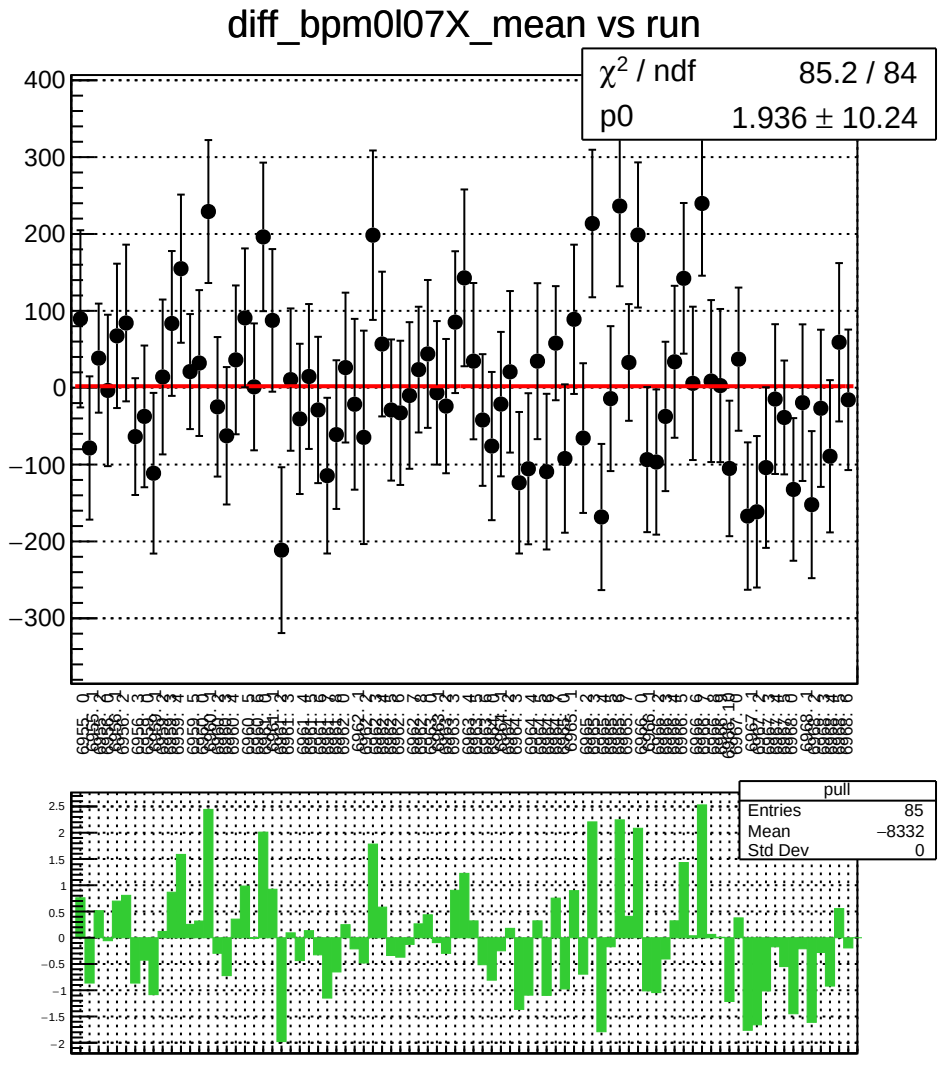

pull1D
Entries 85
Mean −0.003657
Std Dev 0.9734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

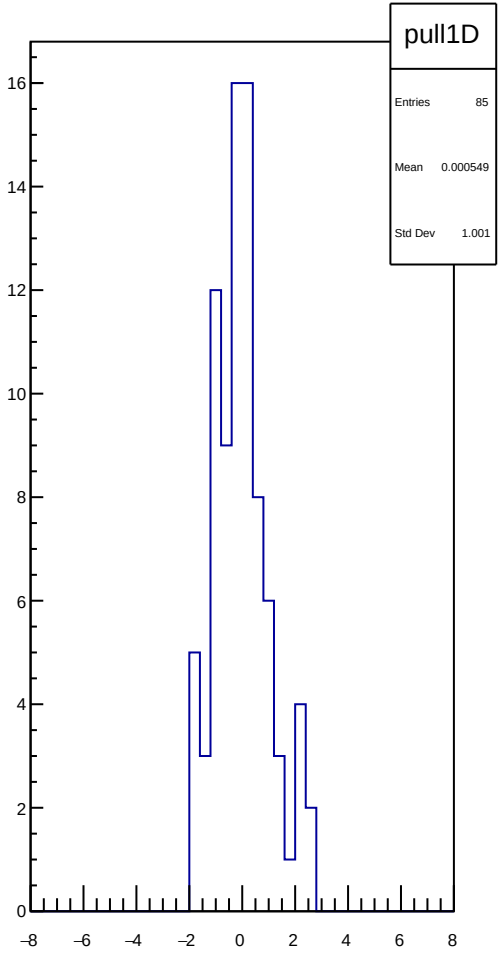

diff_bpm0l06X_rms vs run
χ² / ndf 6157 / 84
p0 5956 ± 4.656
8500
8000
7500
7000
6500
6000
5500
5000

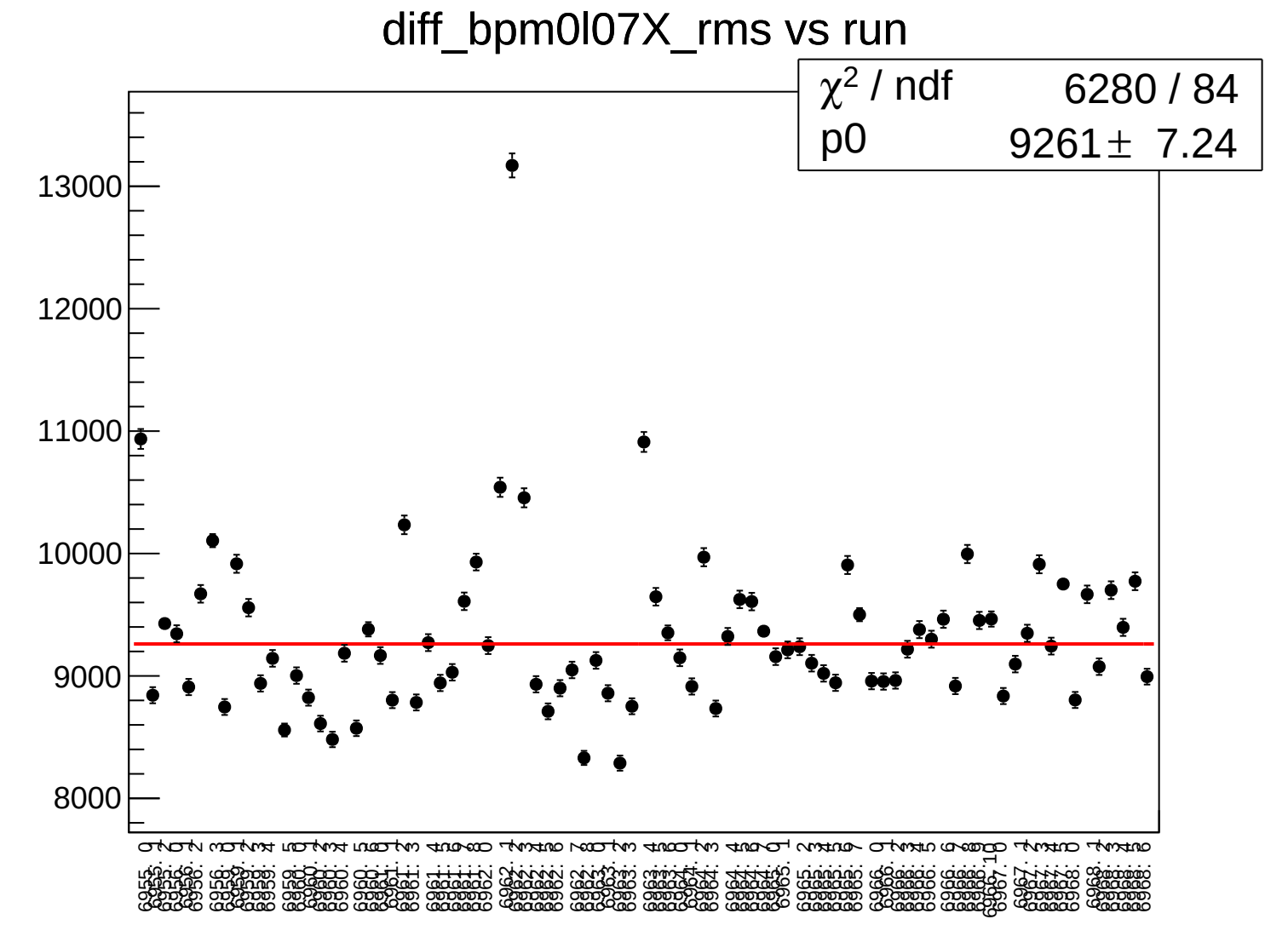

diff_bpm0l06Y_mean vs run
χ² / ndf 82.72 / 84
p0 −0.8776 ± 1.806
pull
Entries 85
Mean −82.85
Std Dev 0

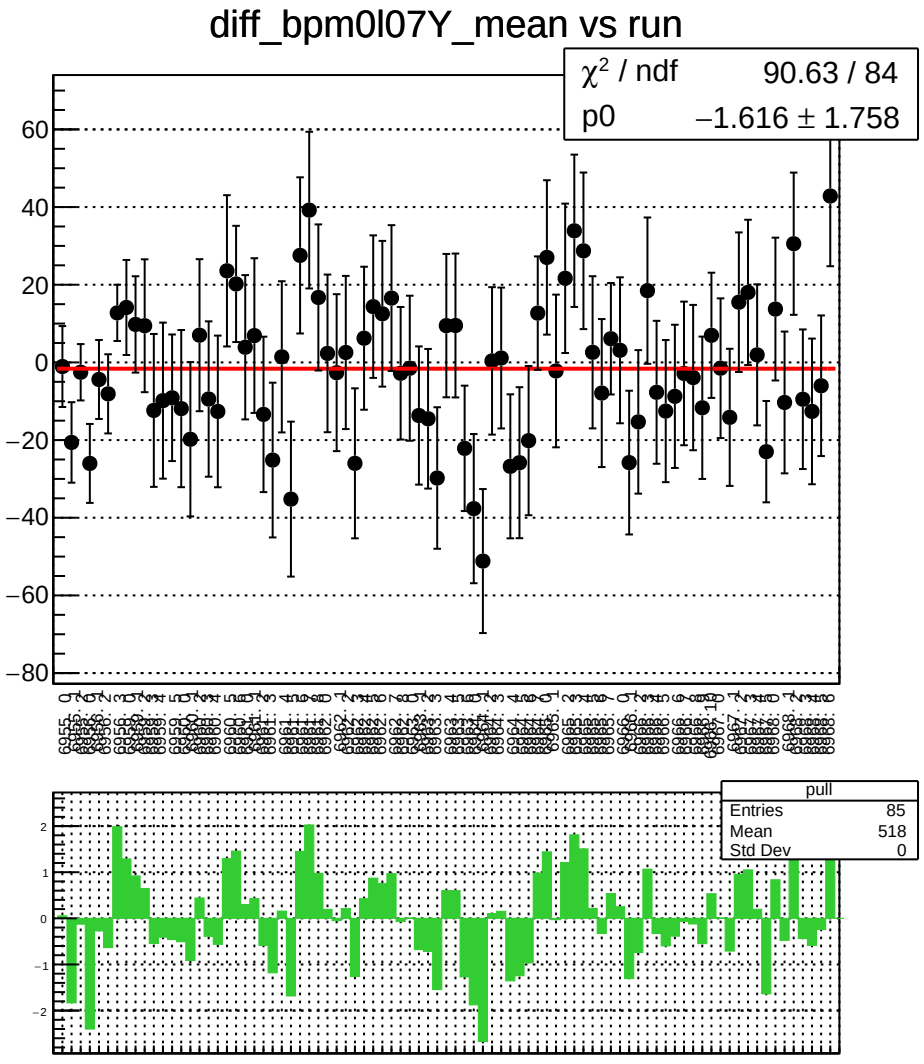

pull1D
Entries 85
Mean 0.01448
Std Dev 0.9864

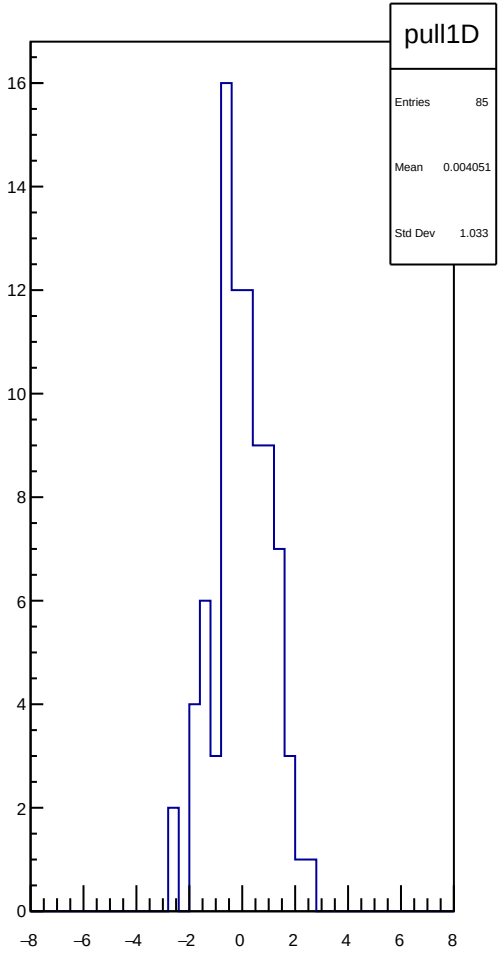

diff_bpm0l06Y_rms vs run
χ² / ndf 5.016e+04 / 84
p0 1612 ± 1.277
2000
1800
1600
1400
1200
1000

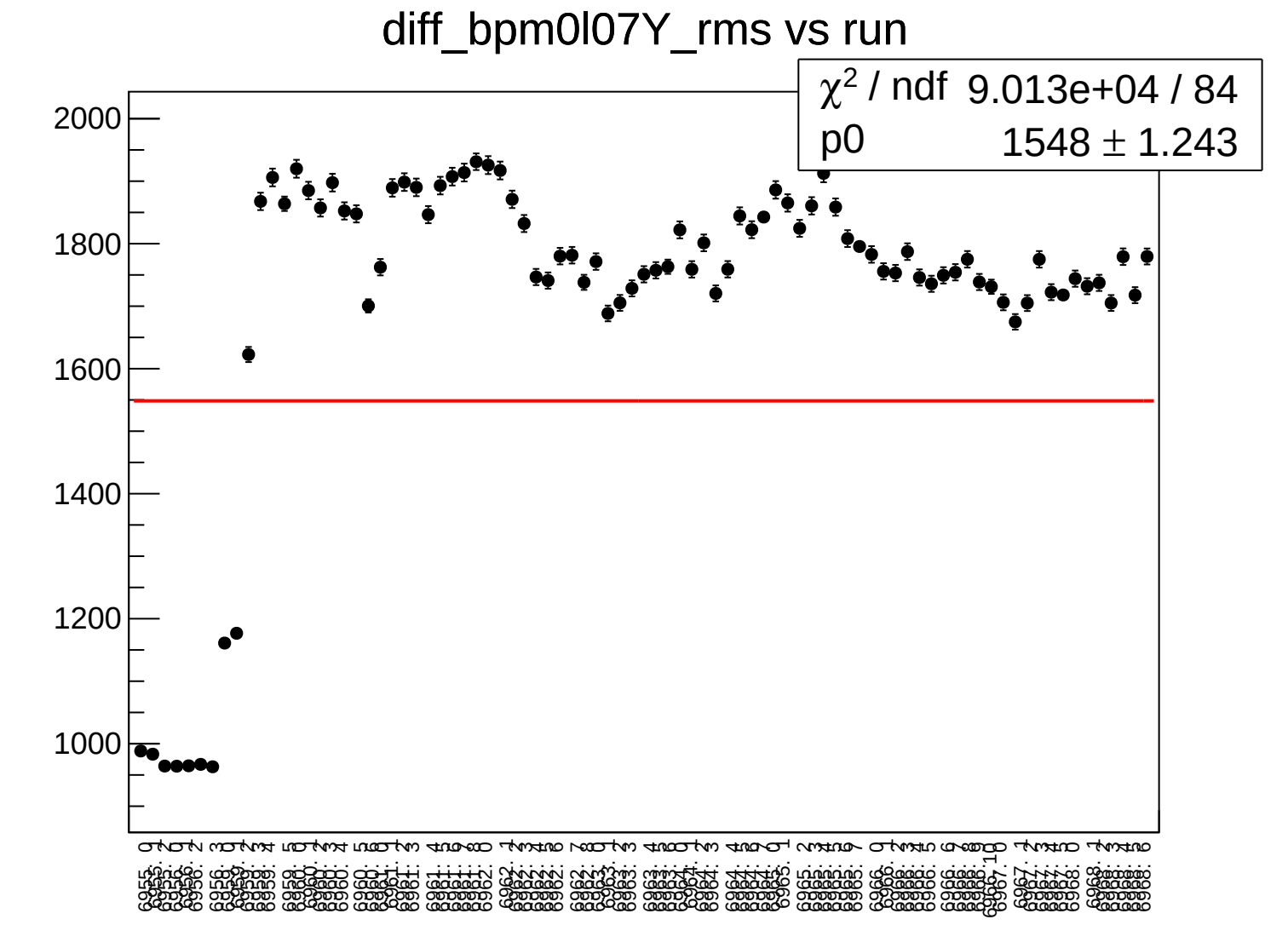

diff_bpm0l07X_mean vs run
$\chi^2$ / ndf 85.2 / 84
p0 1.936 ± 10.24
pull
Entries 85
Mean −8332
Std Dev 0

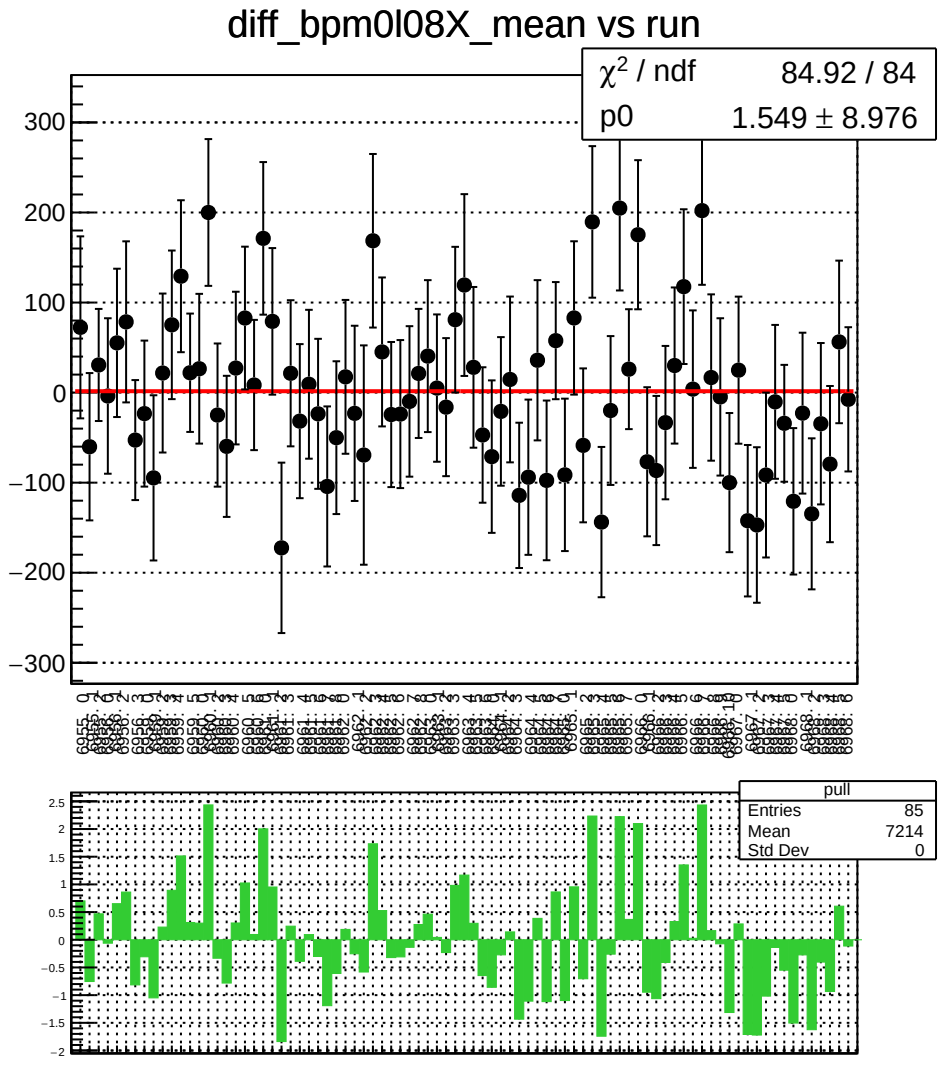

pull1D
Entries 85
Mean 0.000549
Std Dev 1.001

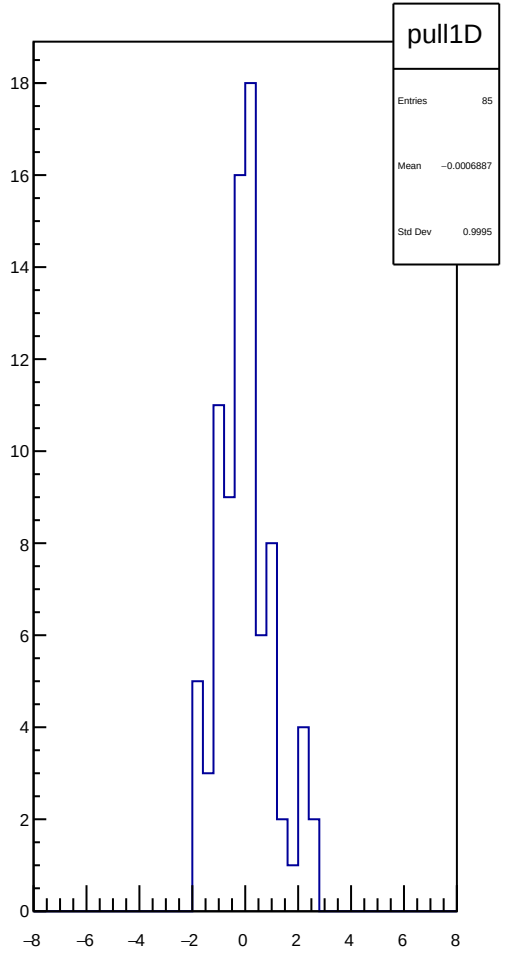

diff_bpm0l07X_rms vs run
χ² / ndf 6280 / 84
p0 9261 ± 7.24
13000
12000
11000
10000
9000
8000

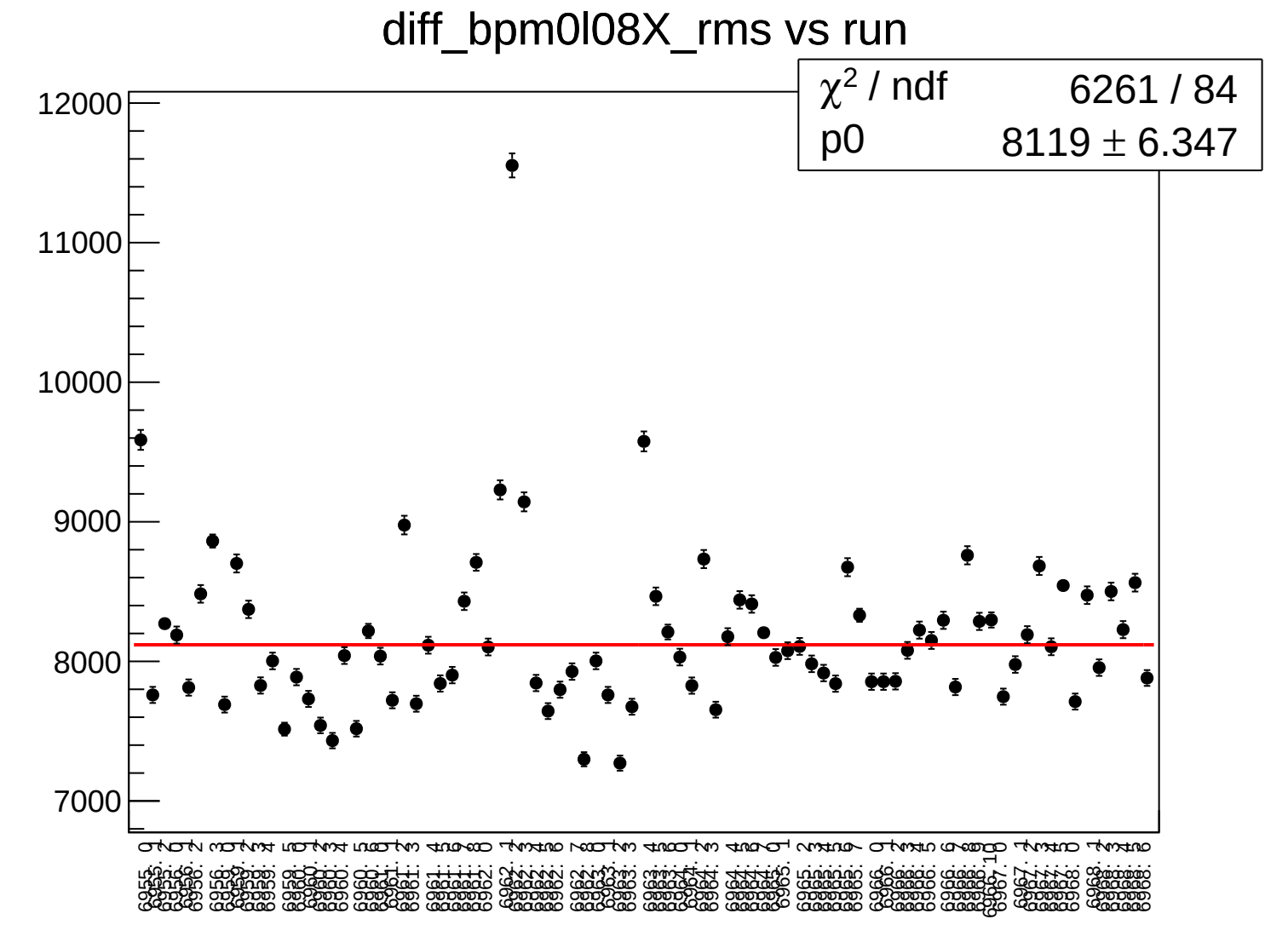

diff_bpm0l07Y_mean vs run
χ² / ndf 90.63 / 84
p0 −1.616 ± 1.758
pull
Entries 85
Mean 518
Std Dev 0

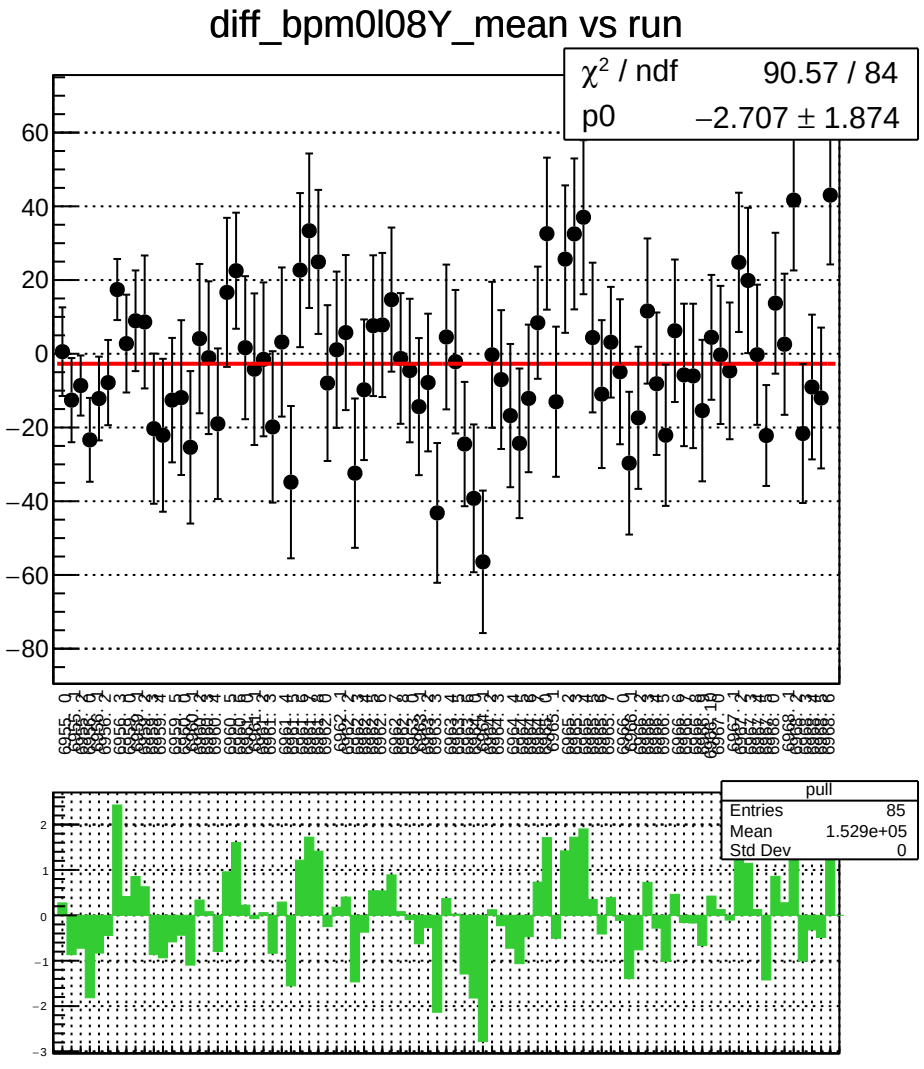

pull1D
Entries 85
Mean 0.004051
Std Dev 1.033

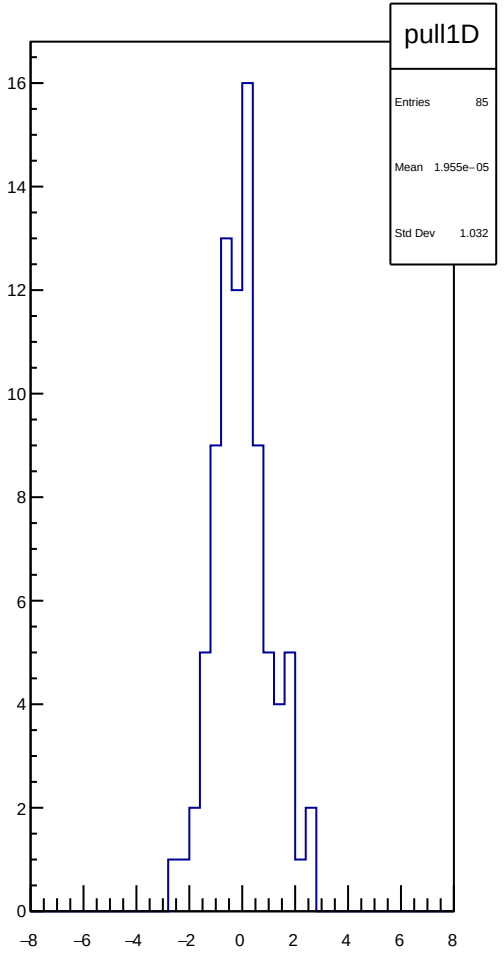

diff_bpm0l07Y_rms vs run
χ² / ndf 9.013e+04 / 84
p0 1548 ± 1.243
2000
1800
1600
1400
1200
1000

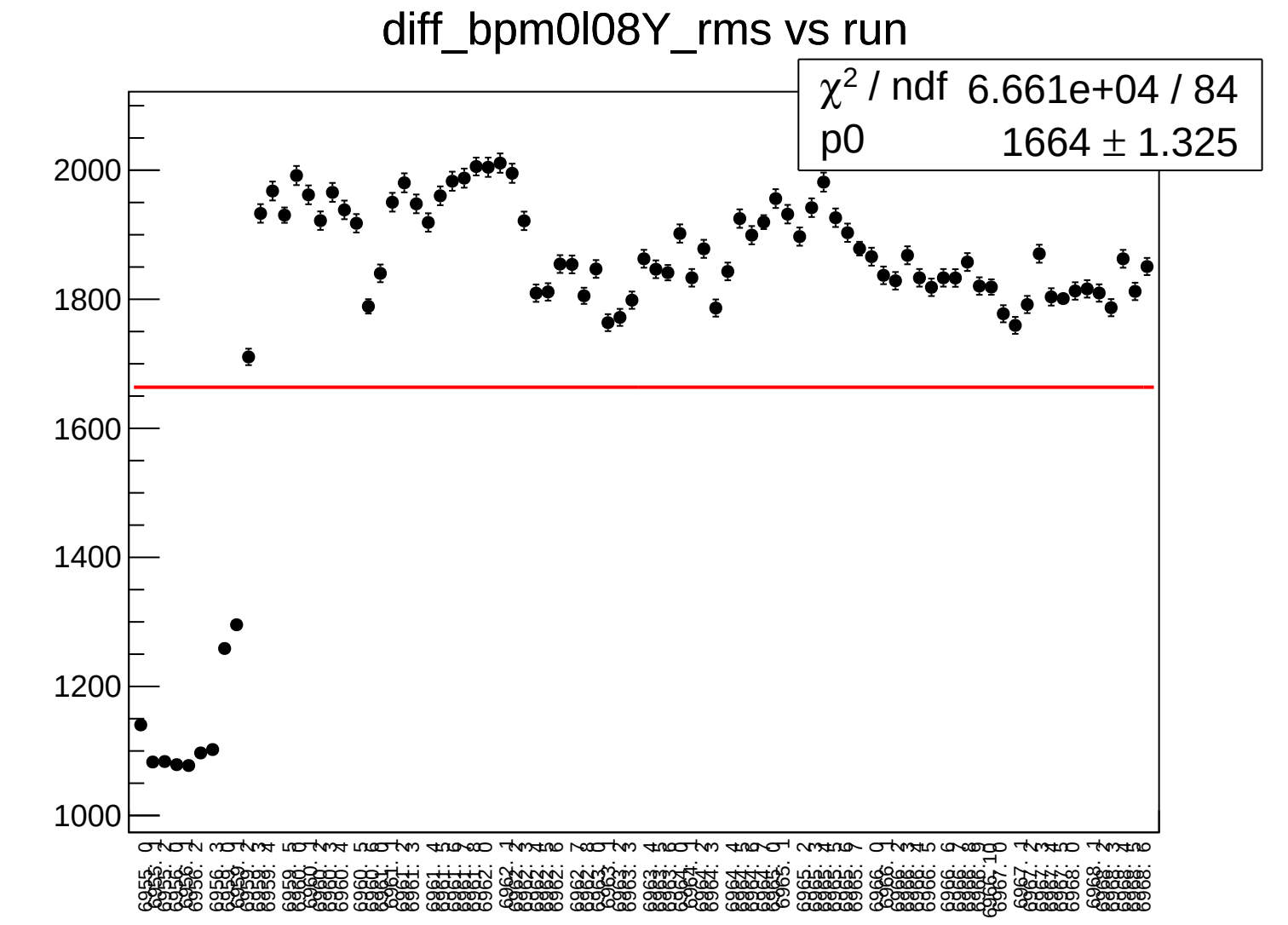

diff_bpm0l08X_mean vs run
χ² / ndf 84.92 / 84
p0 1.549 ± 8.976
pull
Entries 85
Mean 7214
Std Dev 0

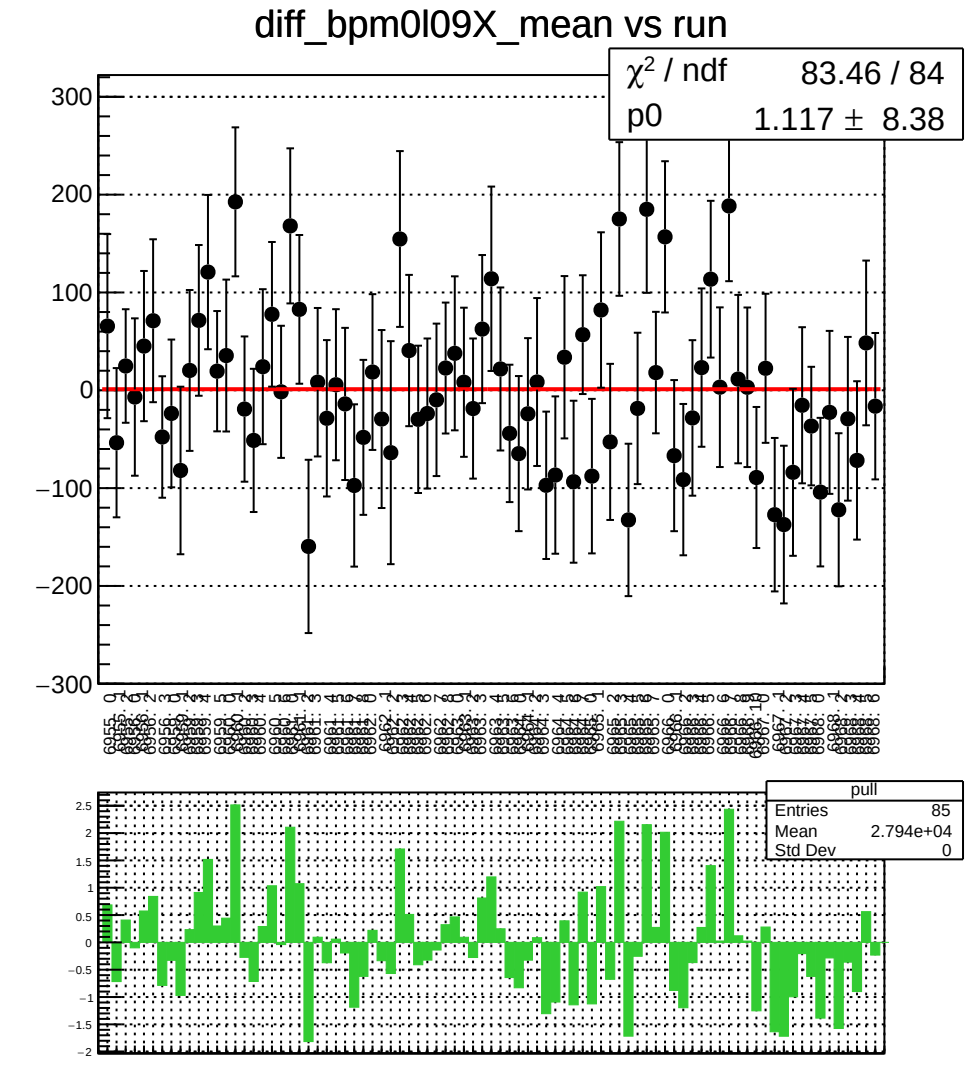

pull1D
Entries 85
Mean −0.0006887
Std Dev 0.9995

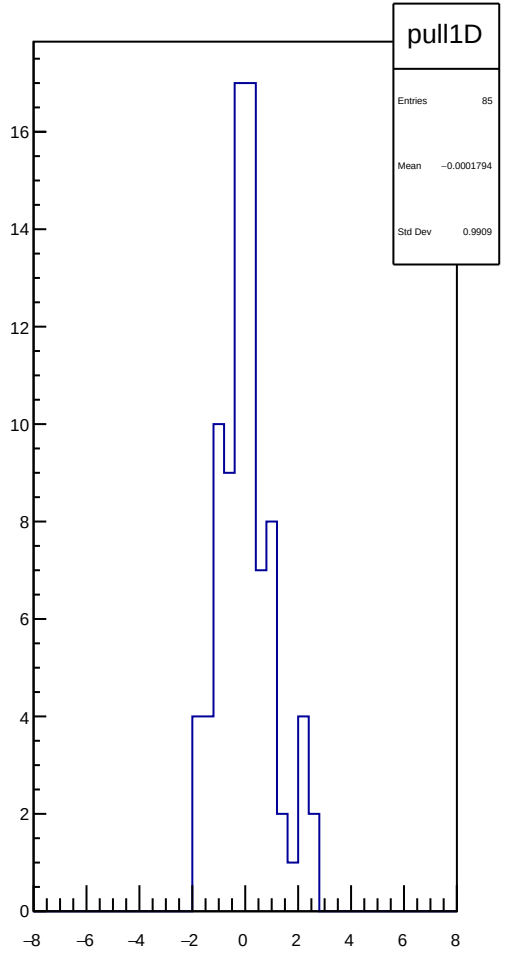

diff_bpm0l08X_rms vs run
χ² / ndf 6261 / 84
p0 8119 ± 6.347
12000
11000
10000
9000
8000
7000

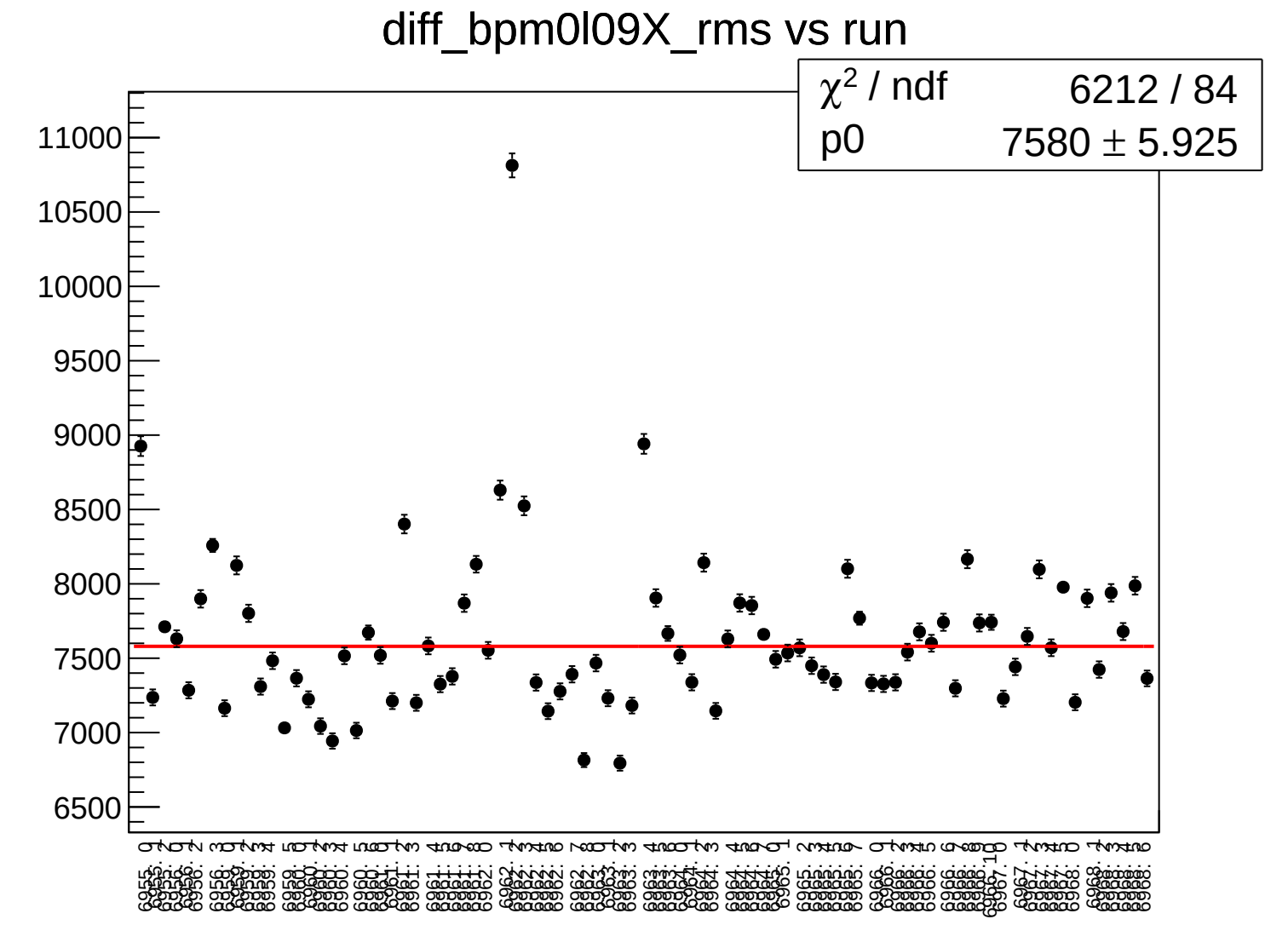

diff_bpm0l08Y_mean vs run
χ² / ndf 90.57 / 84
p0 −2.707 ± 1.874
pull
Entries 85
Mean 1.529e+05
Std Dev 0

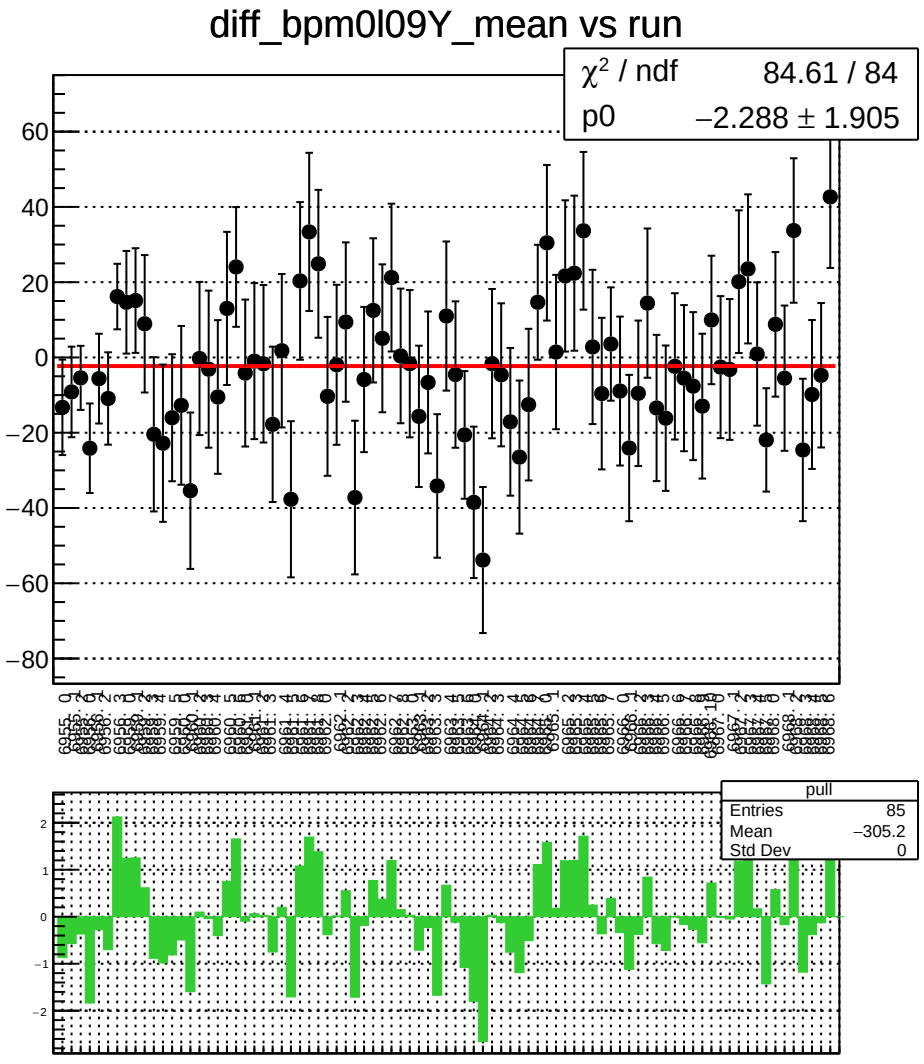

pull1D
Entries 85
Mean 1.955e−05
Std Dev 1.032

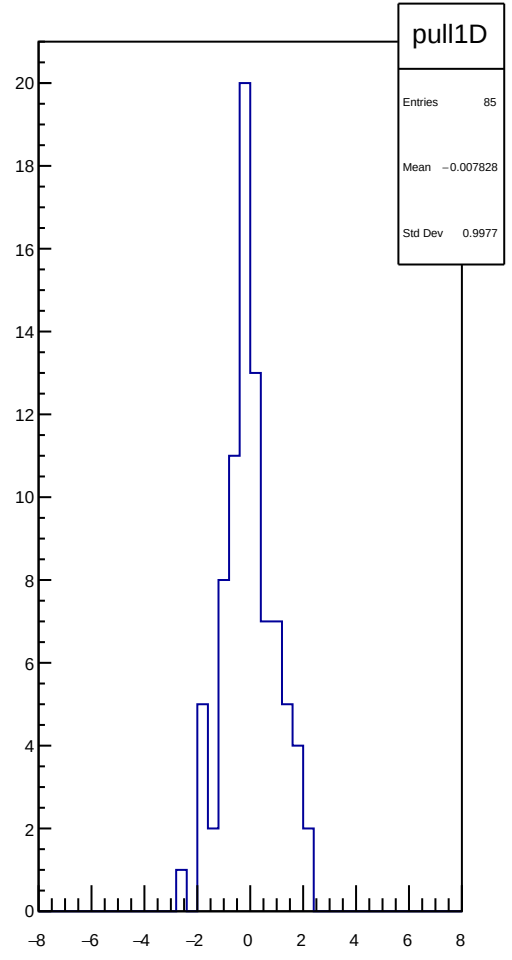

diff_bpm0l08Y_rms vs run
χ² / ndf 6.661e+04 / 84
p0 1664 ± 1.325
2000
1800
1600
1400
1200
1000

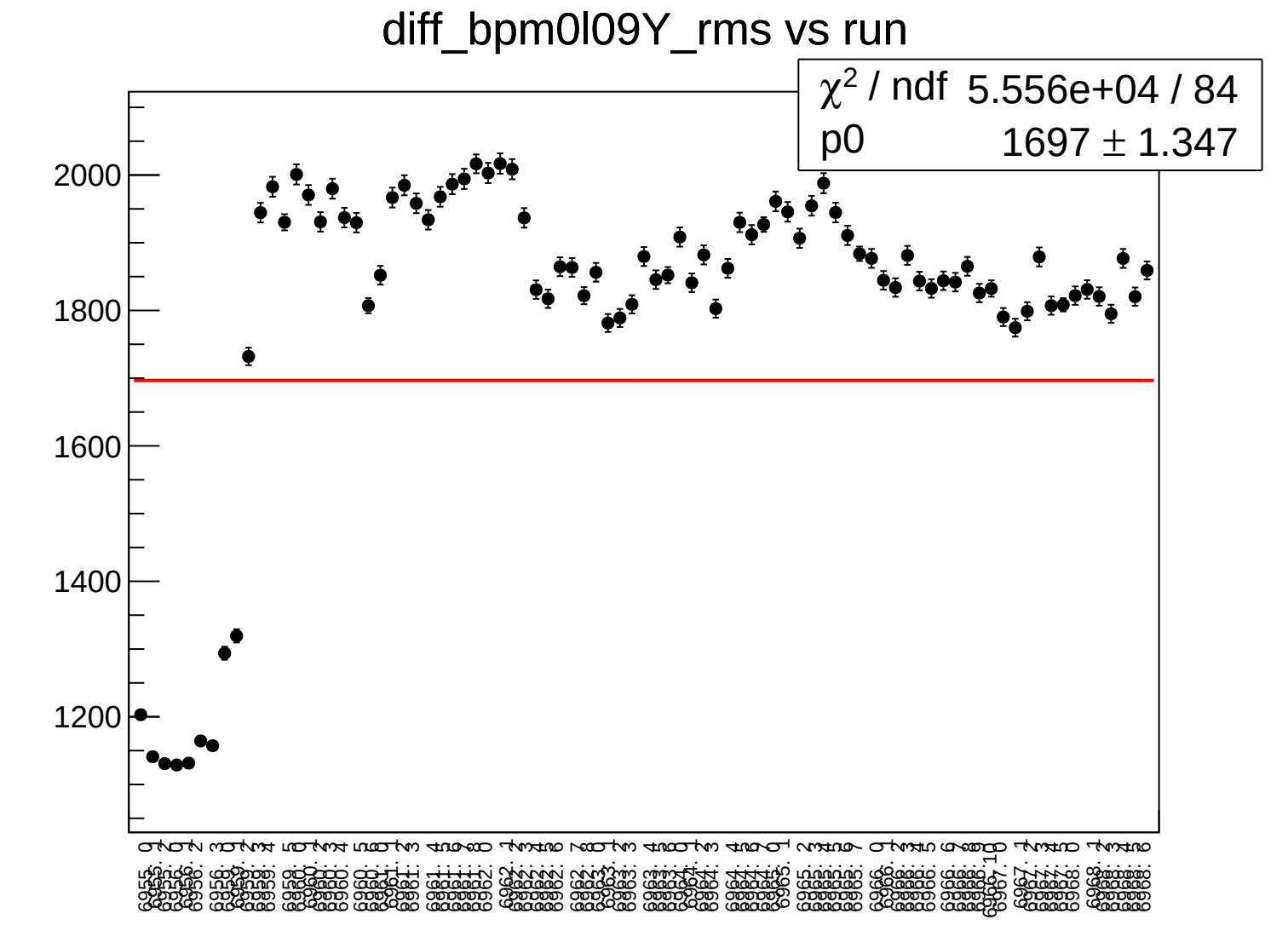

diff_bpm0l09X_mean vs run
χ² / ndf 83.46 / 84
p0 1.117 ± 8.38
pull
Entries 85
Mean 2.794e+04
Std Dev 0

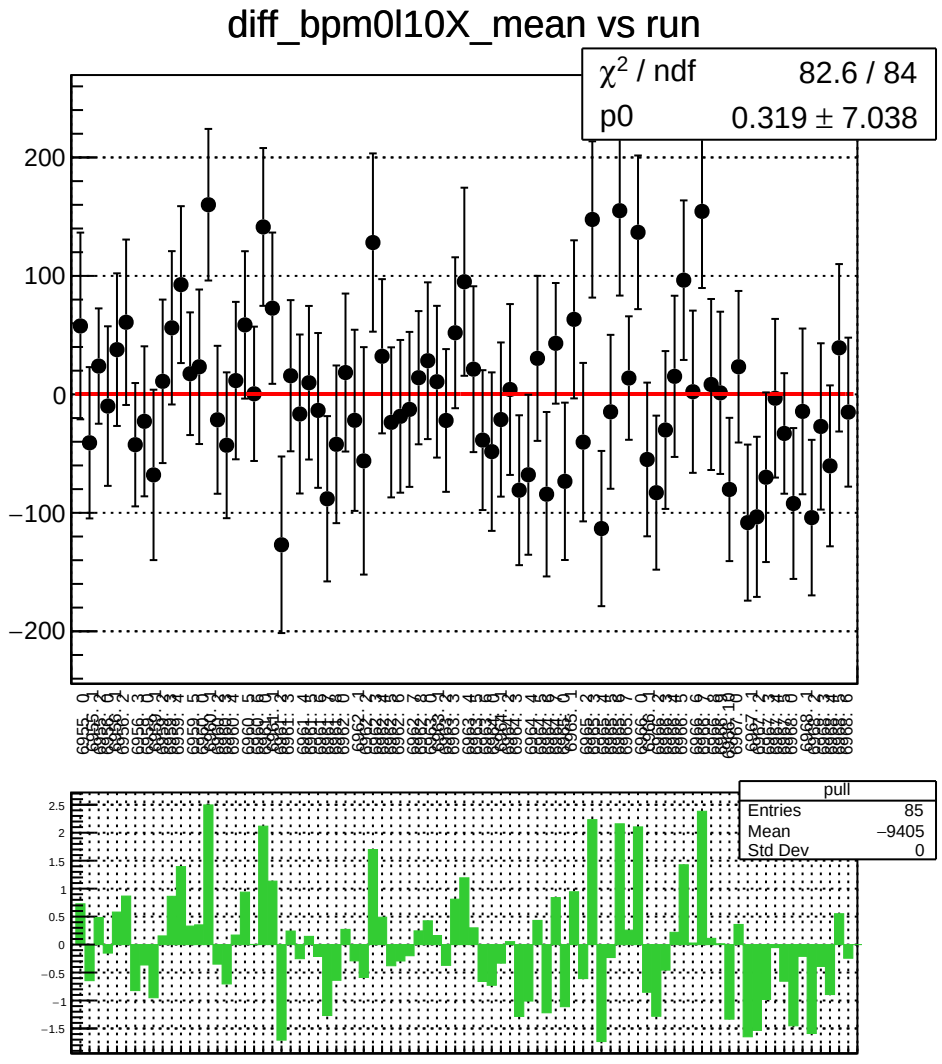

pull1D
Entries 85
Mean −0.0001794
Std Dev 0.9909

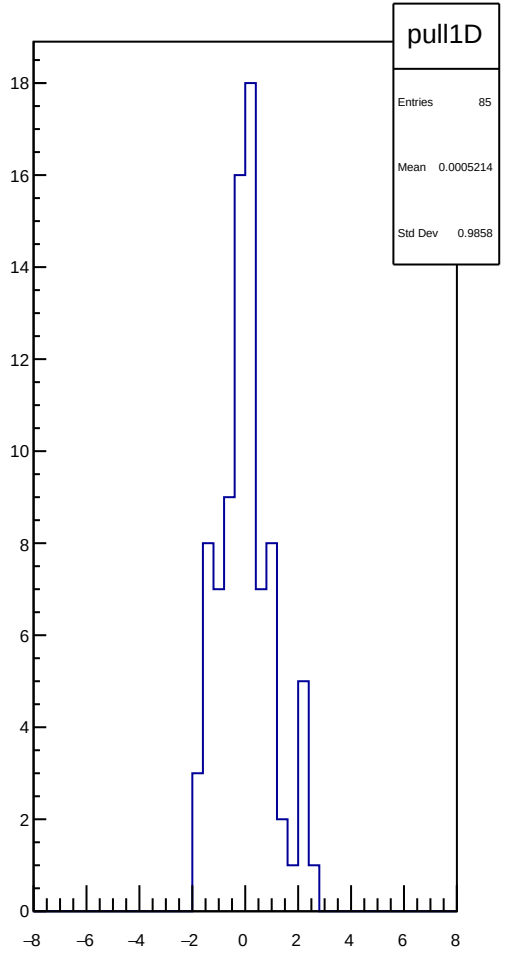

diff_bpm0l09X_rms vs run
χ² / ndf 6212 / 84
p0 7580 ± 5.925
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

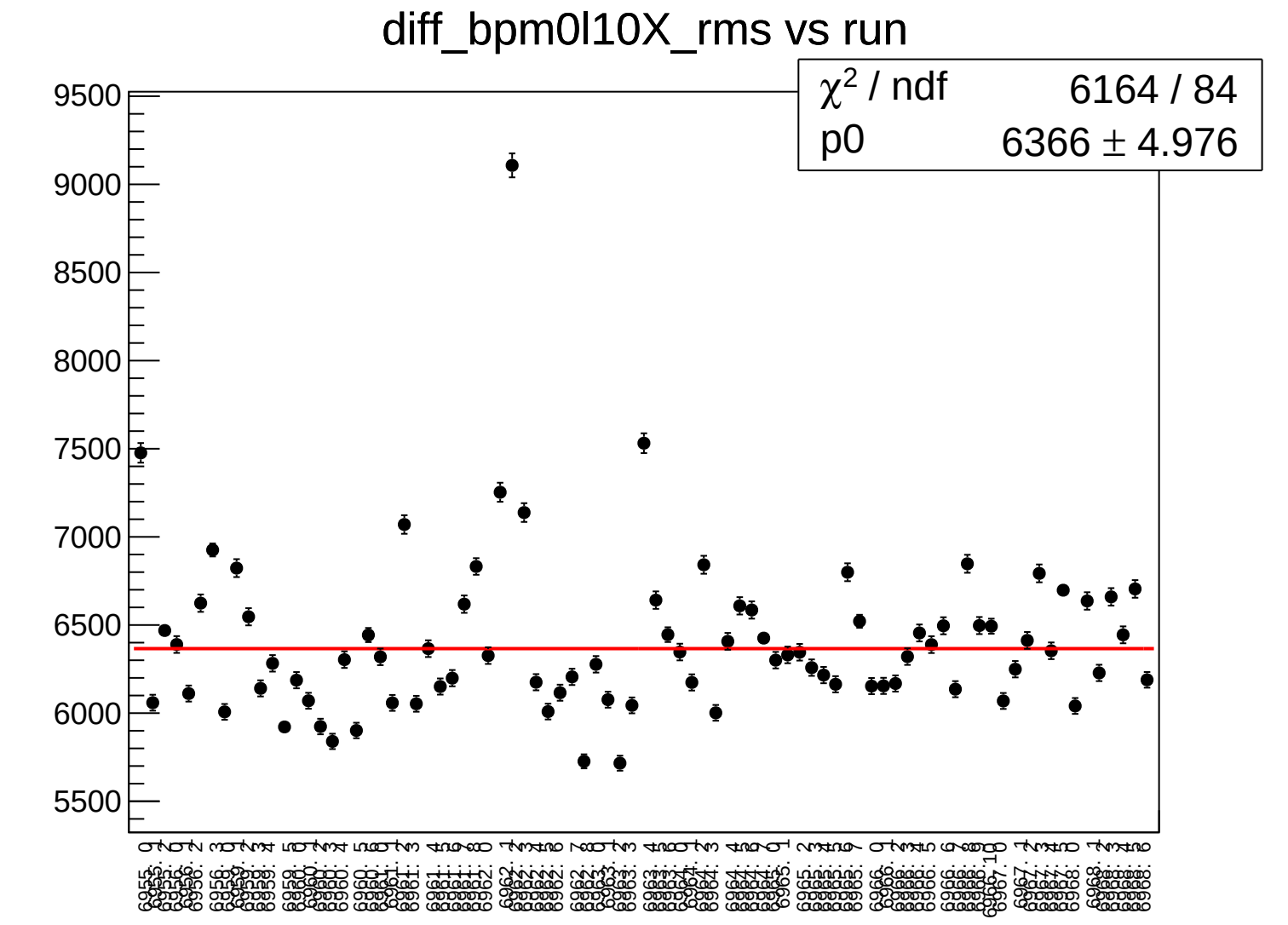

diff_bpm0l09Y_mean vs run
χ² / ndf 84.61 / 84
p0 −2.288 ± 1.905
pull
Entries 85
Mean −305.2
Std Dev 0

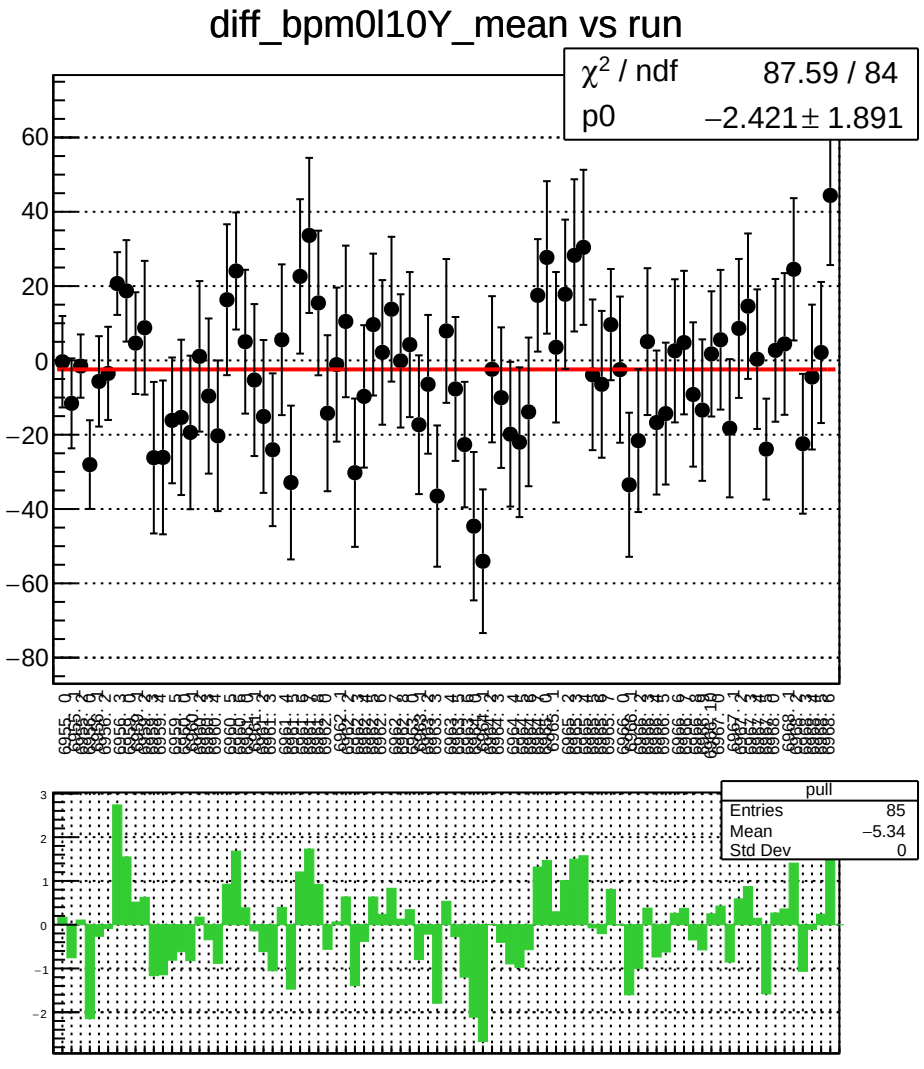

pull1D
Entries 85
Mean −0.007828
Std Dev 0.9977

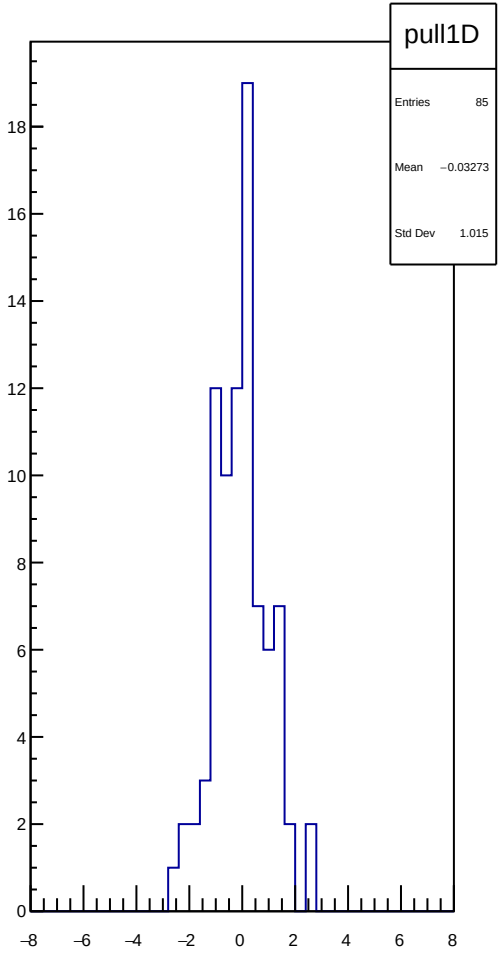

diff_bpm0l09Y_rms vs run
χ² / ndf 5.556e+04 / 84
p0 1697 ± 1.347
2000
1800
1600
1400
1200

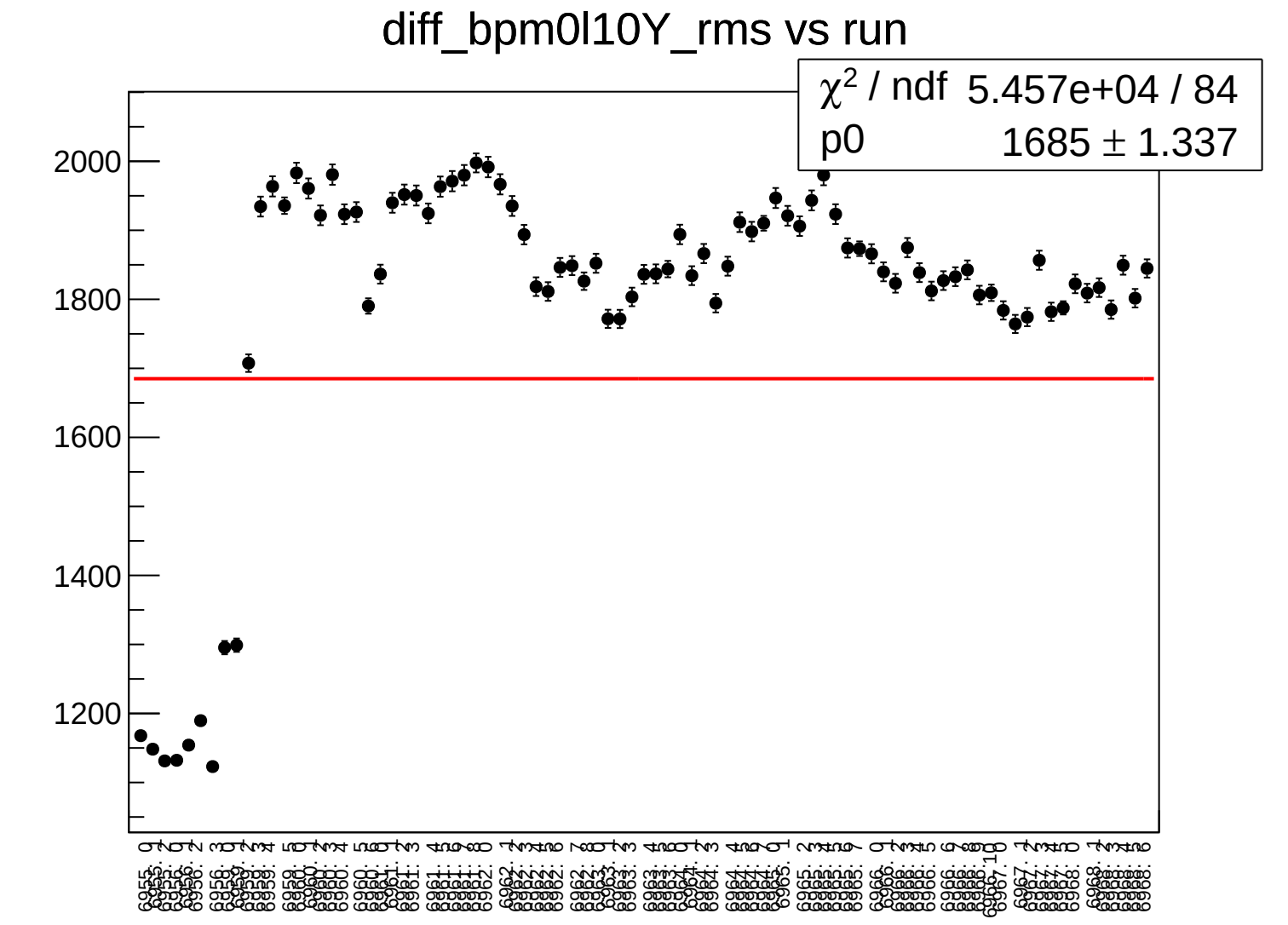

diff_bpm0l10X_mean vs run
$\chi^2$ / ndf 82.6 / 84
p0 0.319 ± 7.038
200
100
0
−100
−200
pull
Entries 85
Mean −9405
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

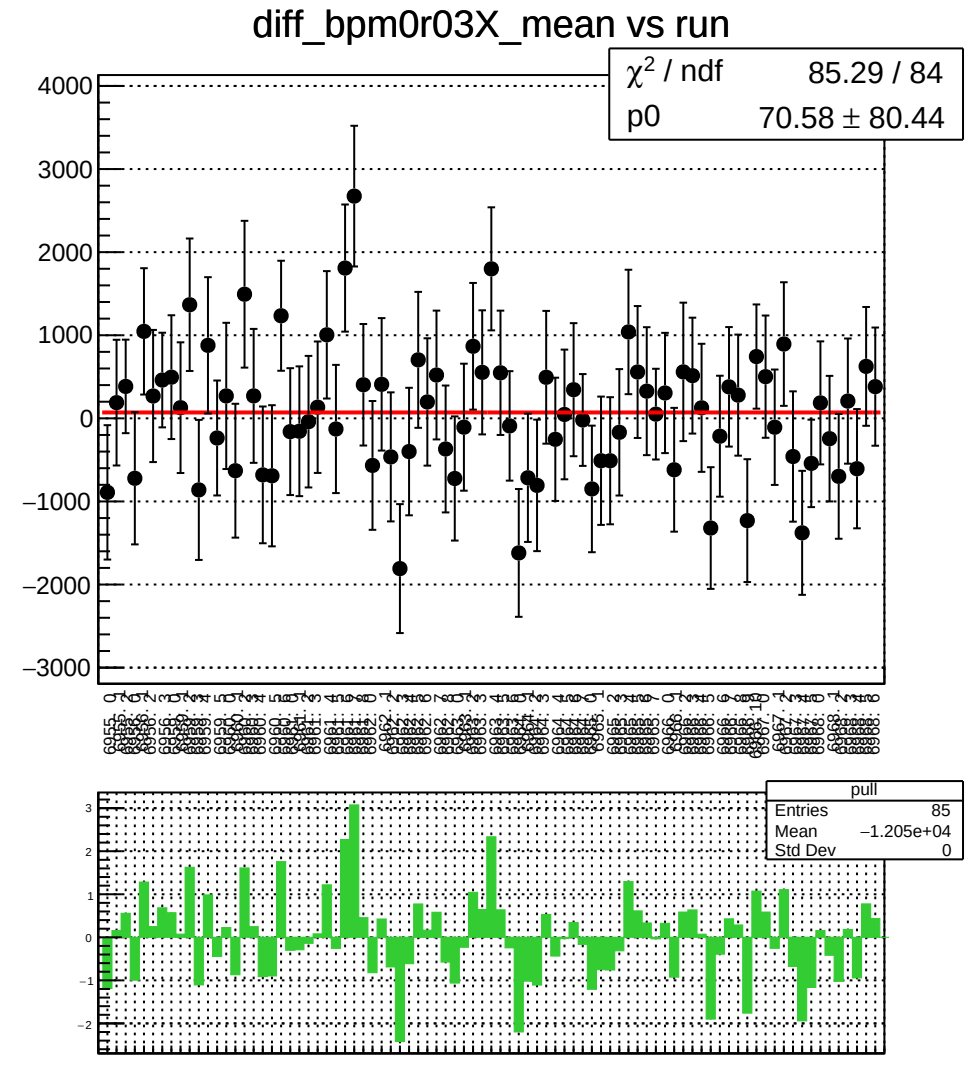

pull1D
Entries 85
Mean 0.0005214
Std Dev 0.9858
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

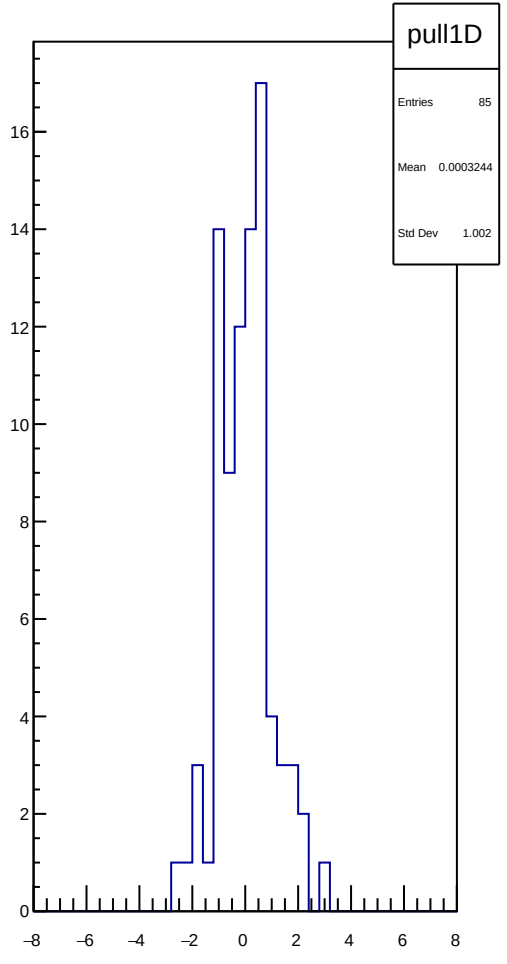

diff_bpm0l10X_rms vs run
$\chi^2$ / ndf 6164 / 84
p0 6366 ± 4.976
9500
9000
8500
8000
7500
7000
6500
6000
5500

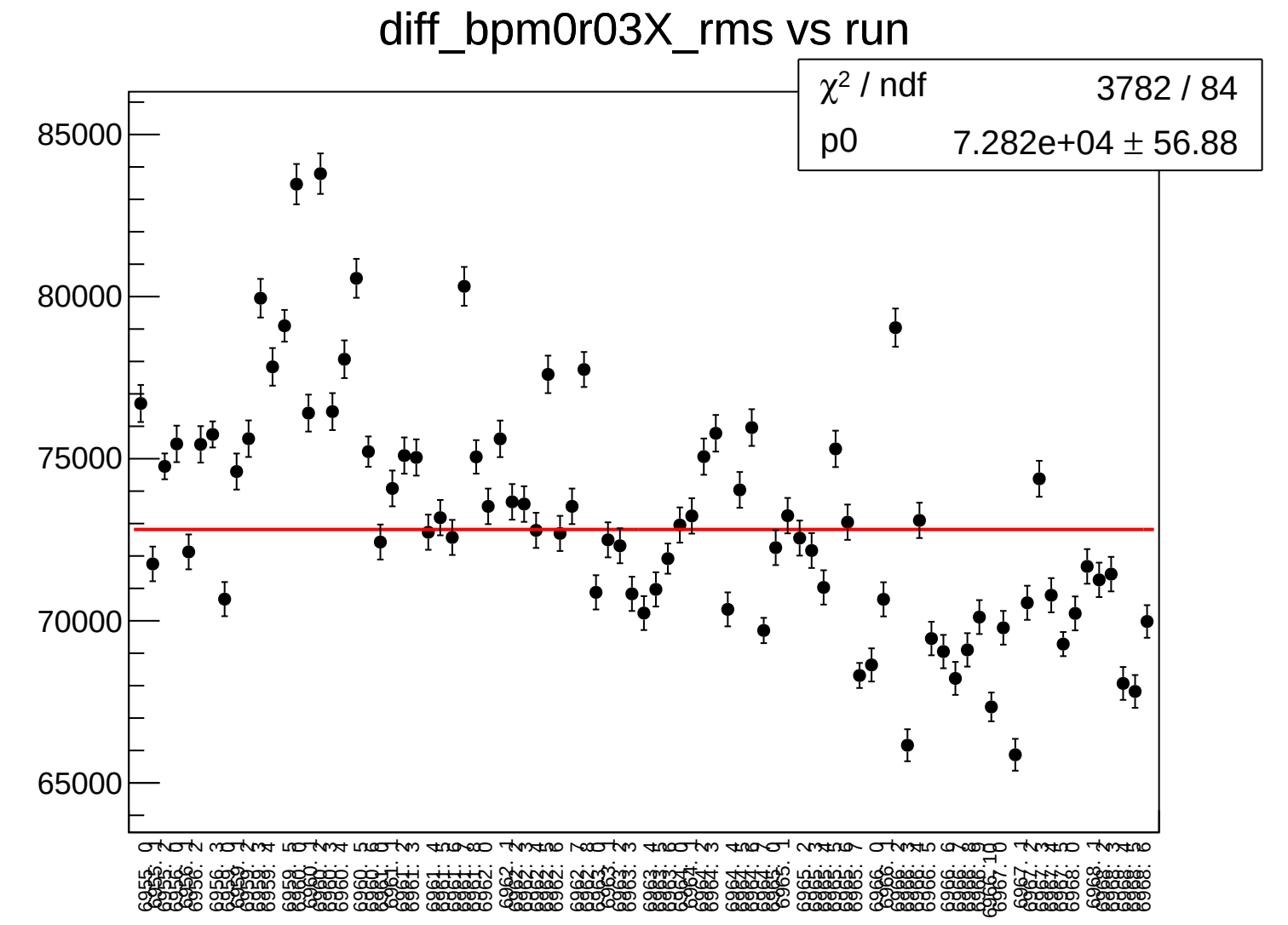

diff_bpm0l10Y_mean vs run
$\chi^2$ / ndf 87.59 / 84
p0 −2.421 ± 1.891
pull
Entries 85
Mean −5.34
Std Dev 0

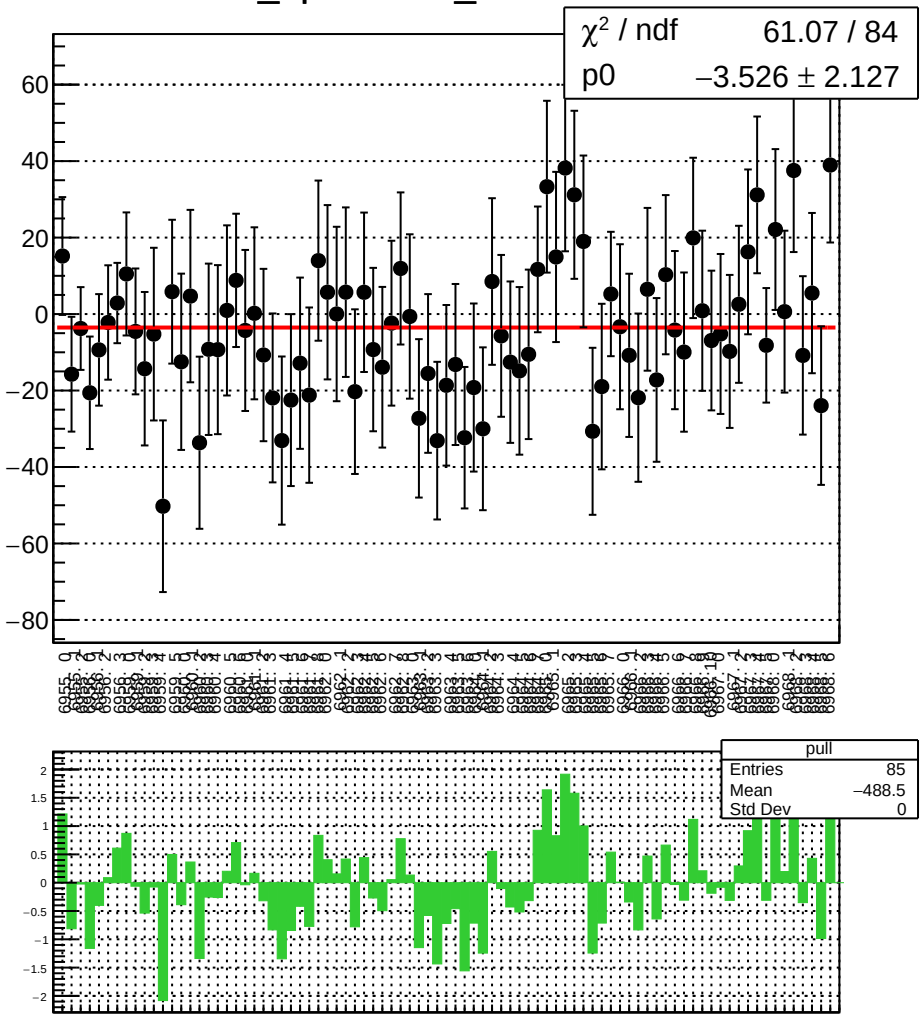

pull1D
Entries 85
Mean −0.03273
Std Dev 1.015

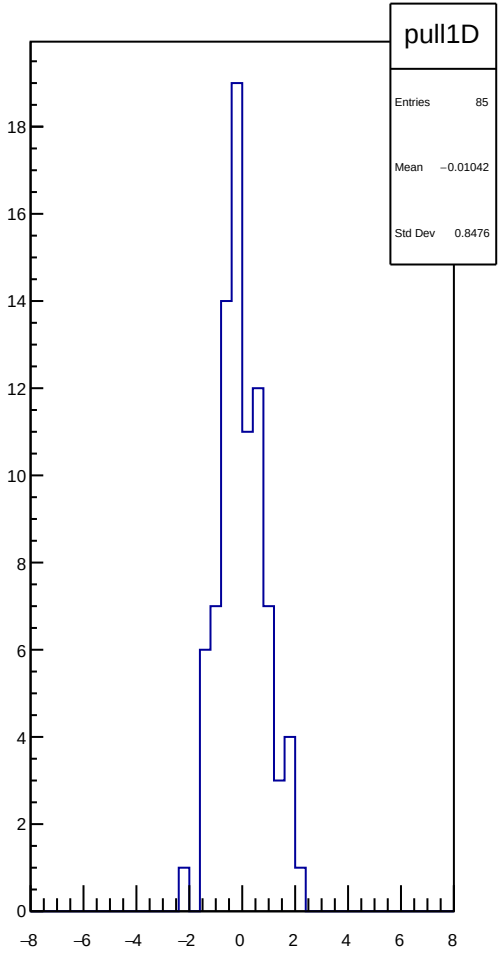

diff_bpm0l10Y_rms vs run
χ² / ndf 5.457e+04 / 84
p0 1685 ± 1.337
2000
1800
1600
1400
1200

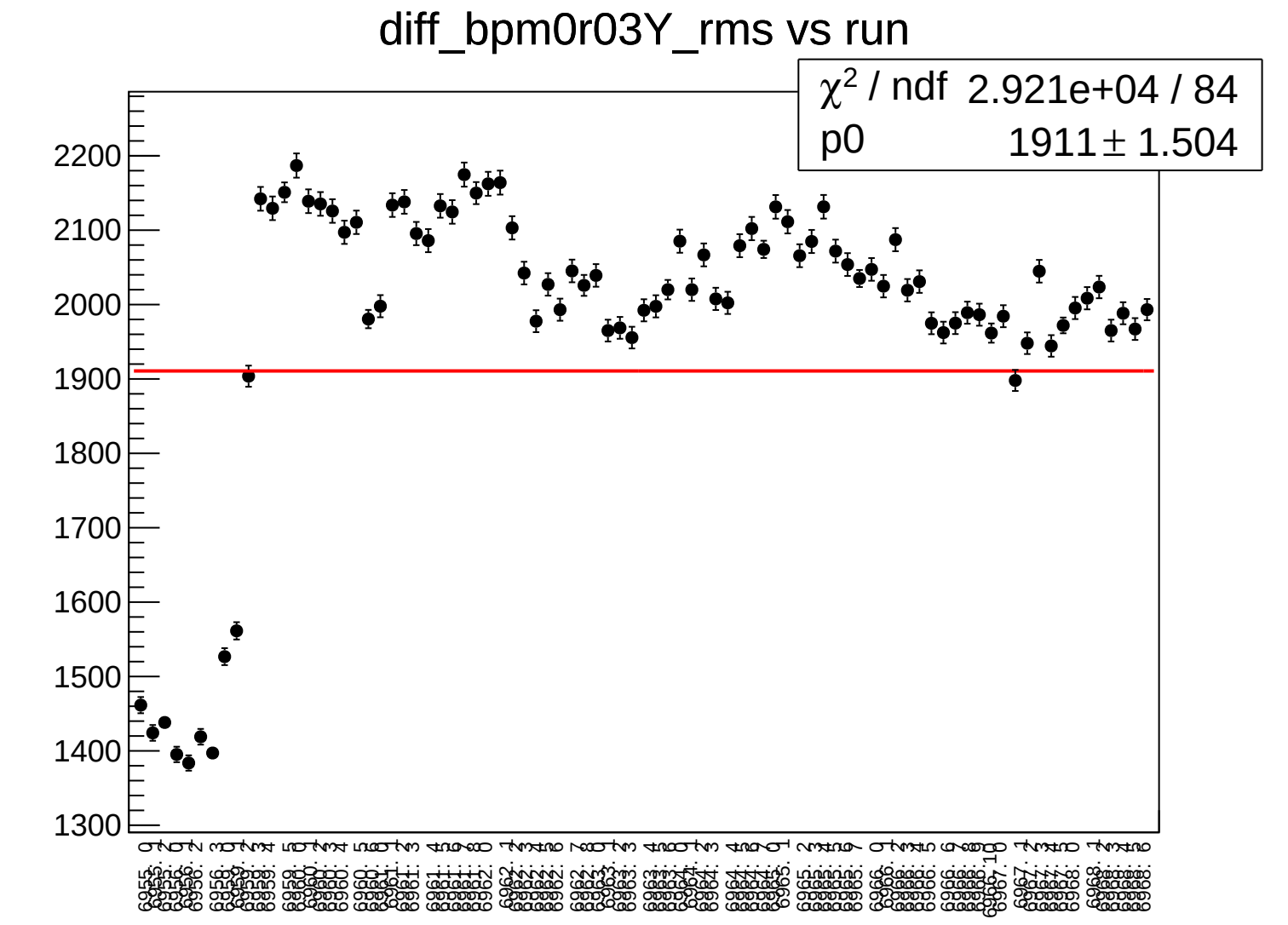

diff_bpm0r03X_mean vs run
χ² / ndf 85.29 / 84
p0 70.58 ± 80.44
pull
Entries 85
Mean −1.205e+04
Std Dev 0

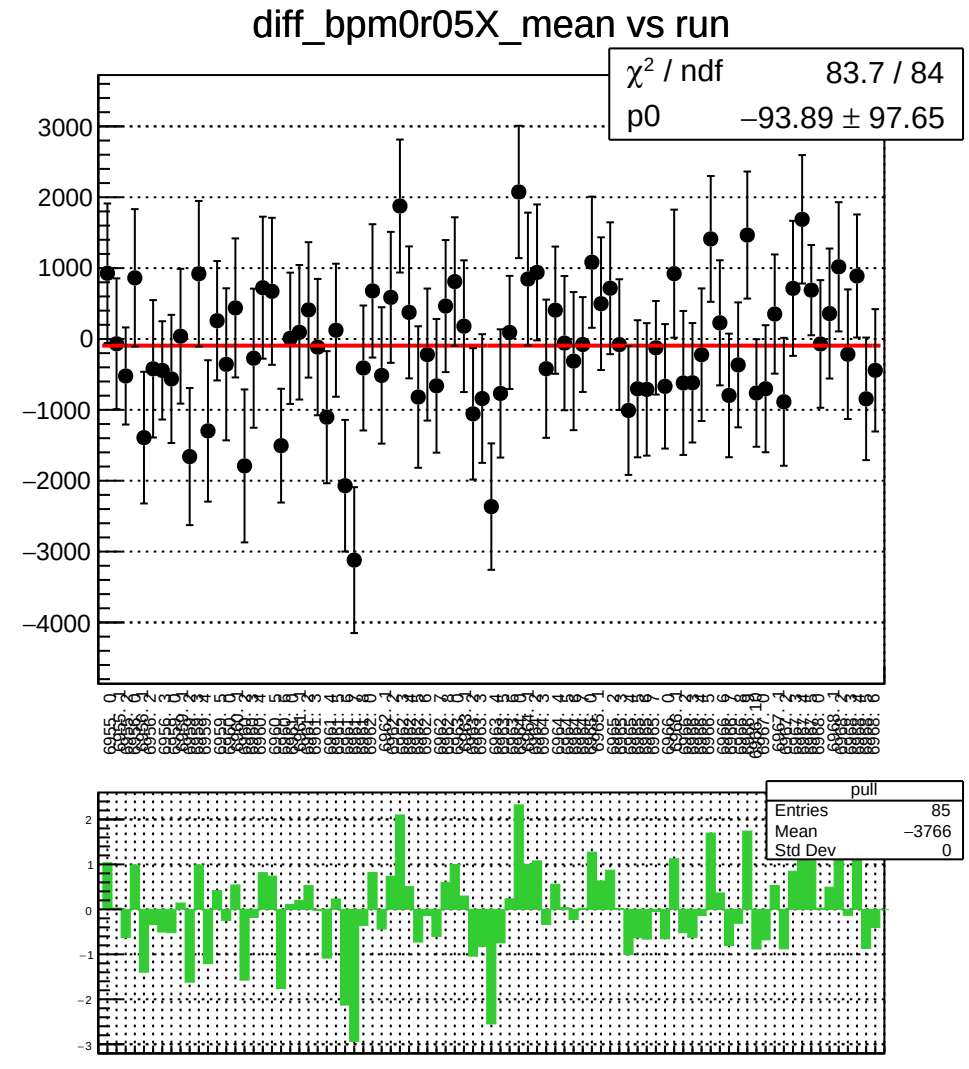

pull1D
Entries 85
Mean 0.0003244
Std Dev 1.002

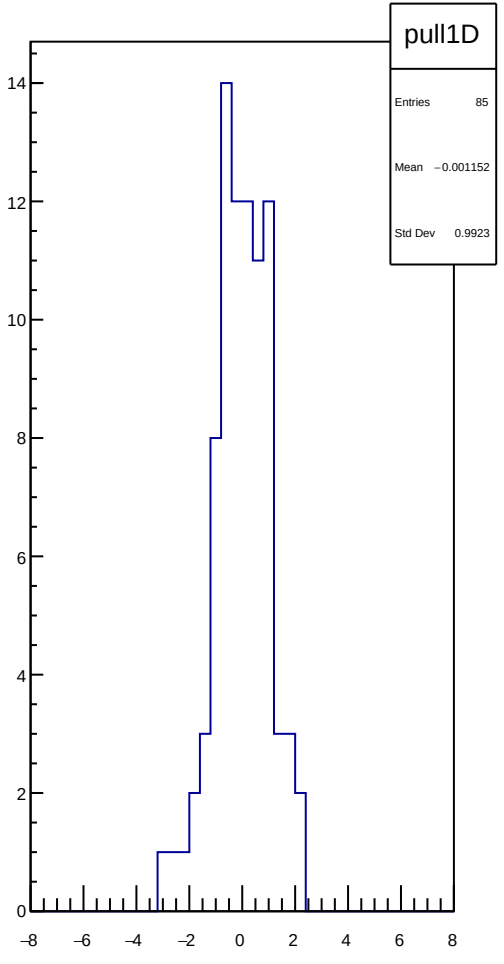

diff_bpm0r03X_rms vs run
χ² / ndf 3782 / 84
p0 7.282e+04 ± 56.88
85000
80000
75000
70000
65000

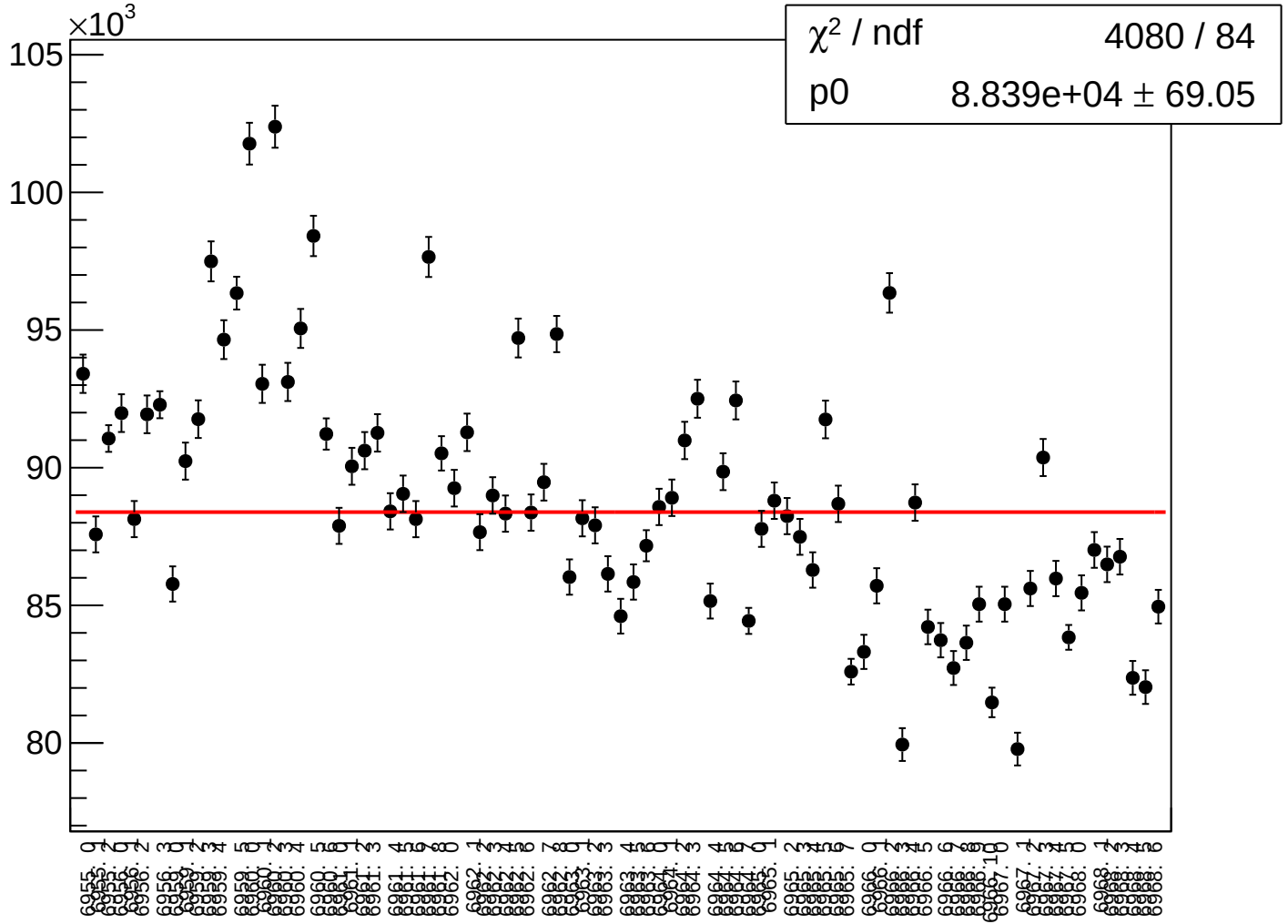

diff_bpm0r03Y_mean vs run
χ² / ndf 61.07 / 84
p0 −3.526 ± 2.127
pull
Entries 85
Mean −488.5
Std Dev 0

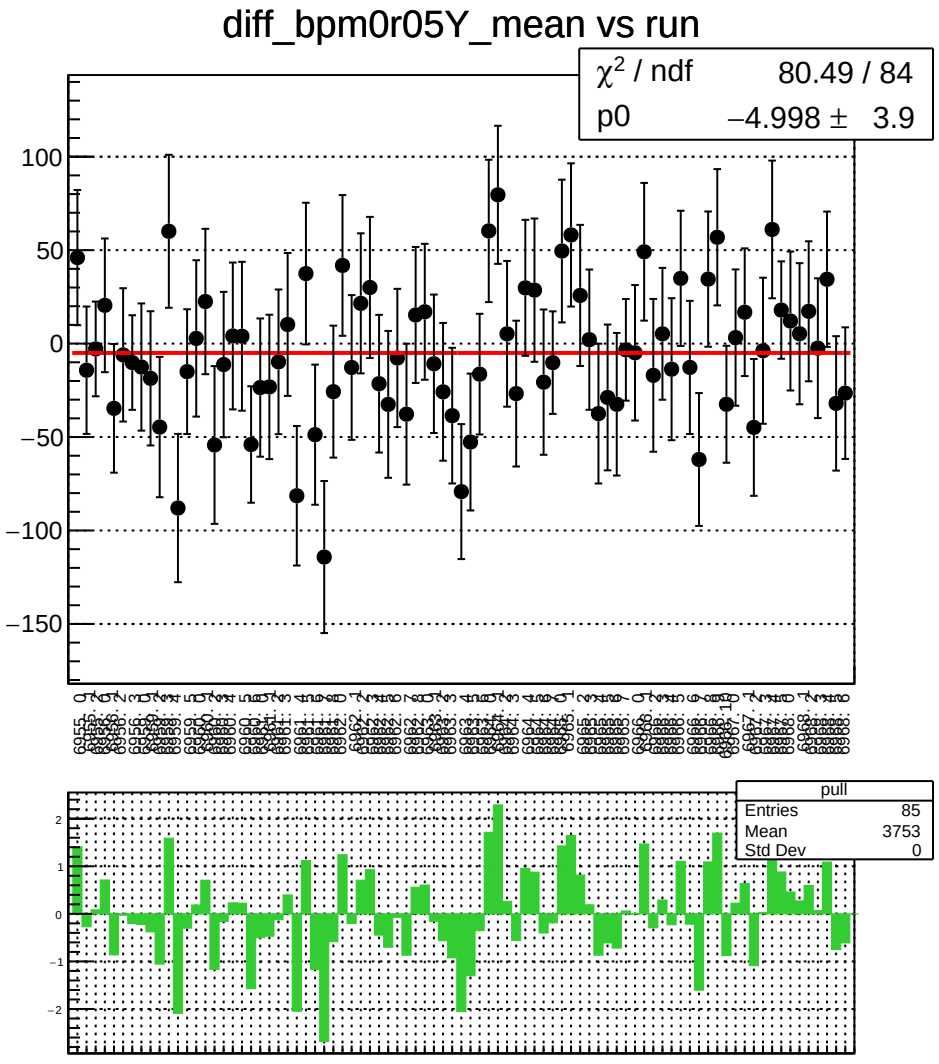

pull1D
Entries 85
Mean −0.01042
Std Dev 0.8476

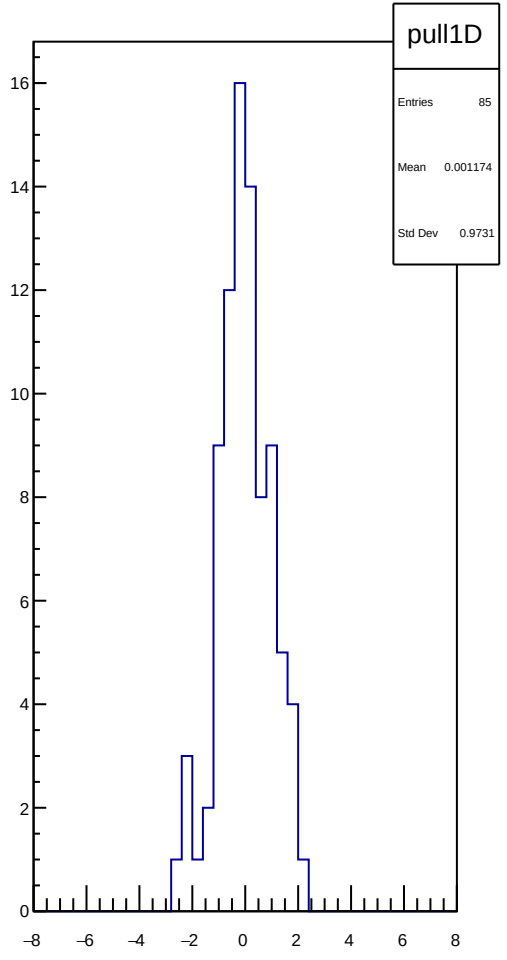

diff_bpm0r03Y_rms vs run
$\chi^2$ / ndf 2.921e+04 / 84
p0 1911 ± 1.504
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

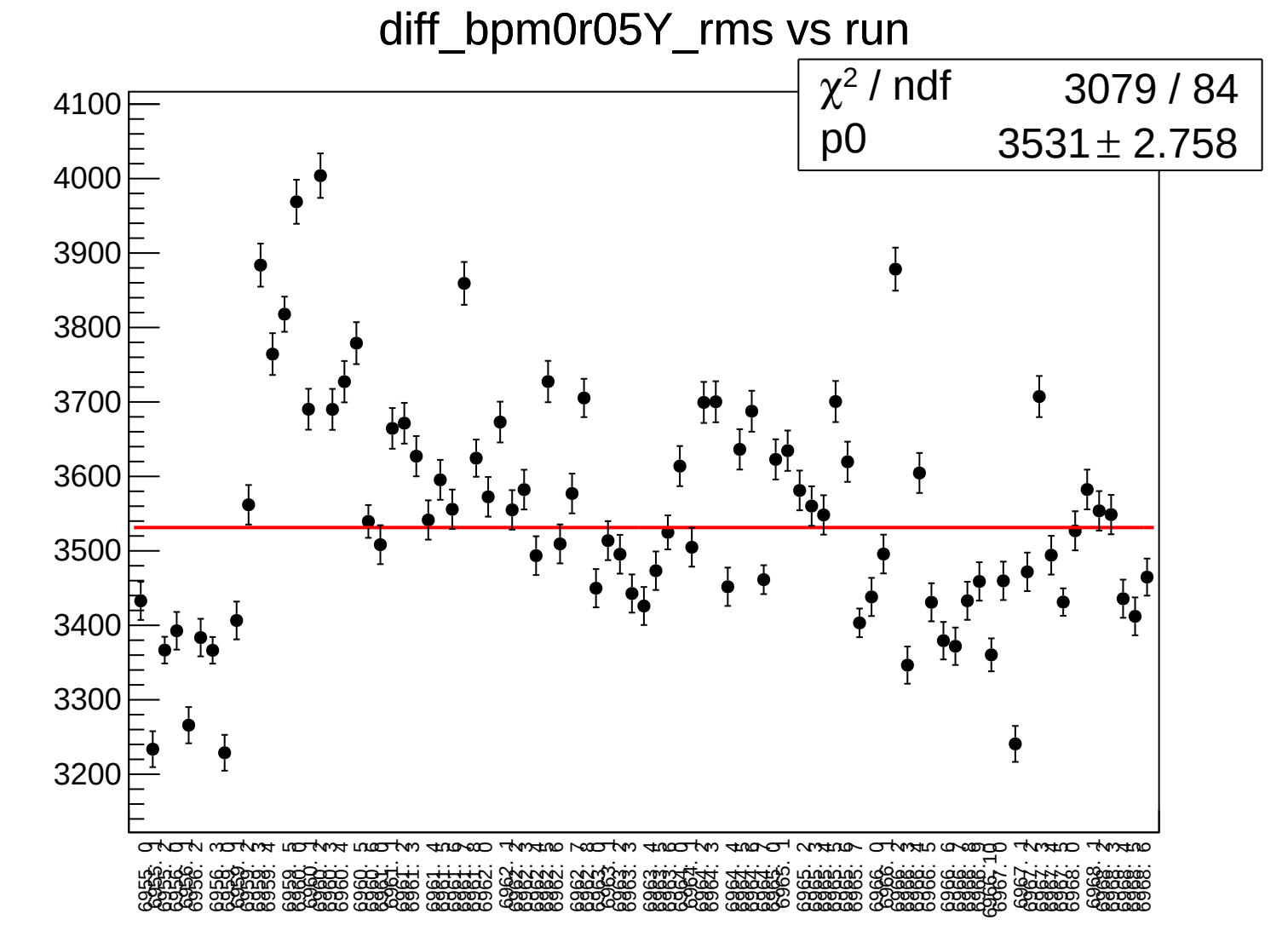

diff_bpm0r05X_mean vs run
χ² / ndf 83.7 / 84
p0 −93.89 ± 97.65
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 85
Mean −3766
Std Dev 0
2
1
0
−1
−2
−3

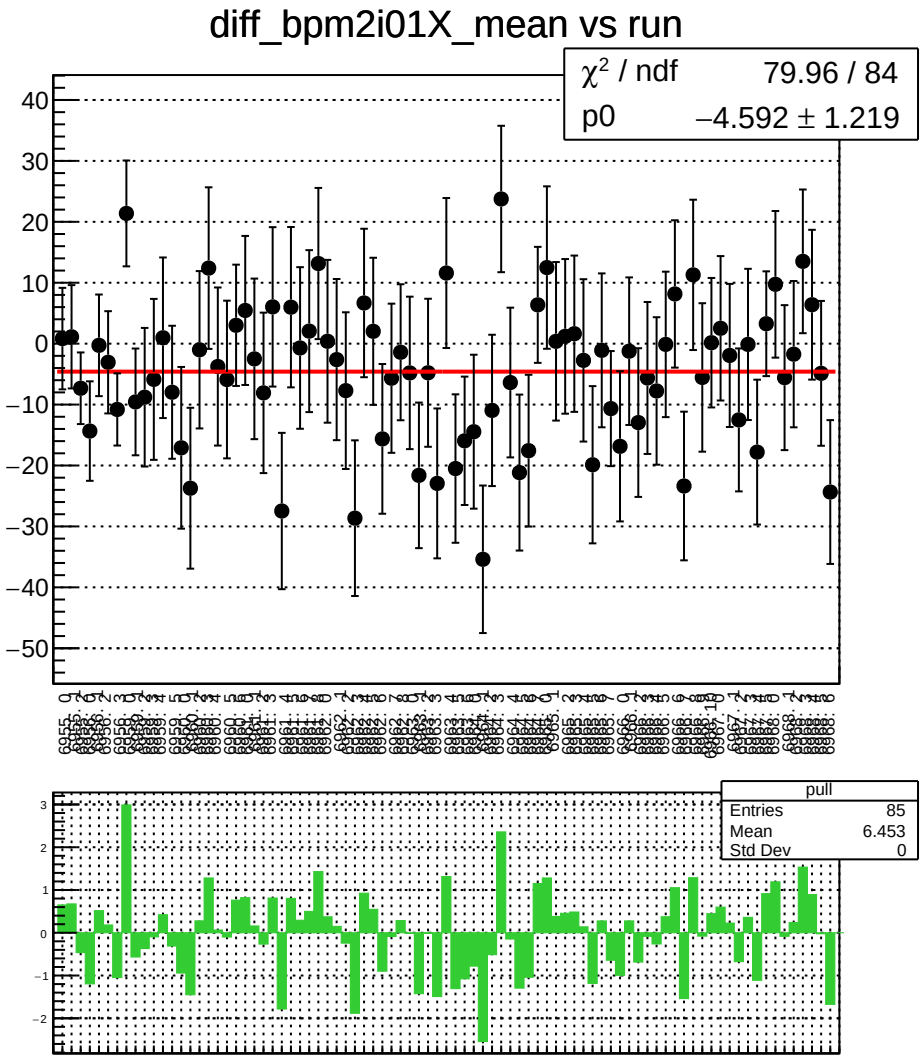

pull1D
Entries 85
Mean −0.001152
Std Dev 0.9923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

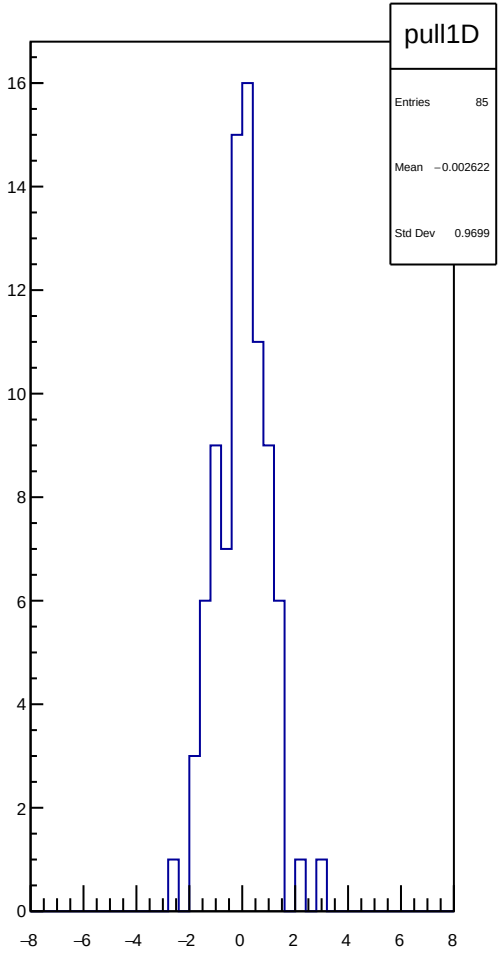

diff_bpm0r05X_rms vs run
×10^3
105
100
95
90
85
80
χ² / ndf 4080 / 84
p0 8.839e+04 ± 69.05

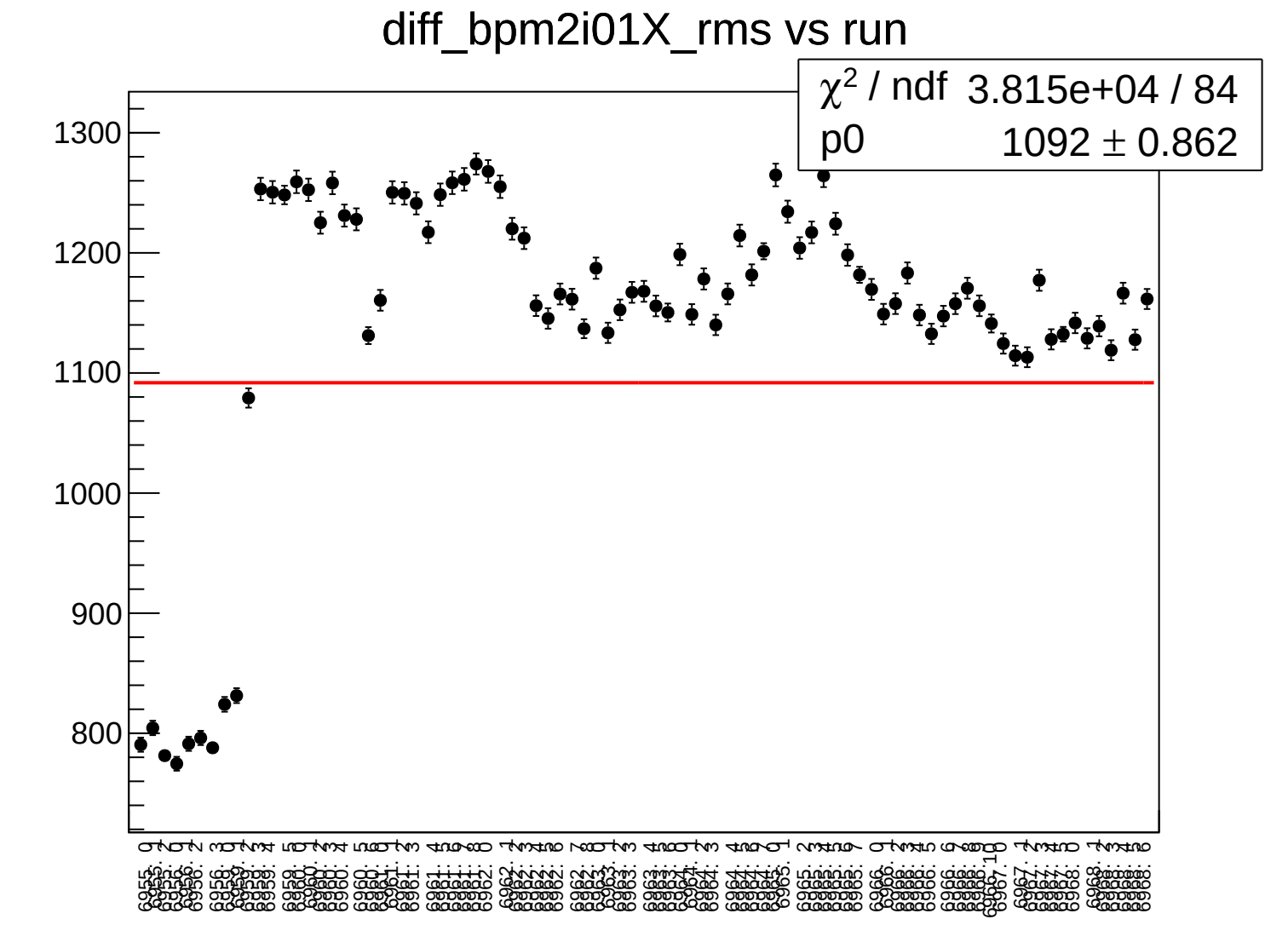

diff_bpm0r05Y_mean vs run
χ² / ndf 80.49 / 84
p0 −4.998 ± 3.9
100
50
0
−50
−100
−150
pull
Entries 85
Mean 3753
Std Dev 0
2
1
0
−1
−2

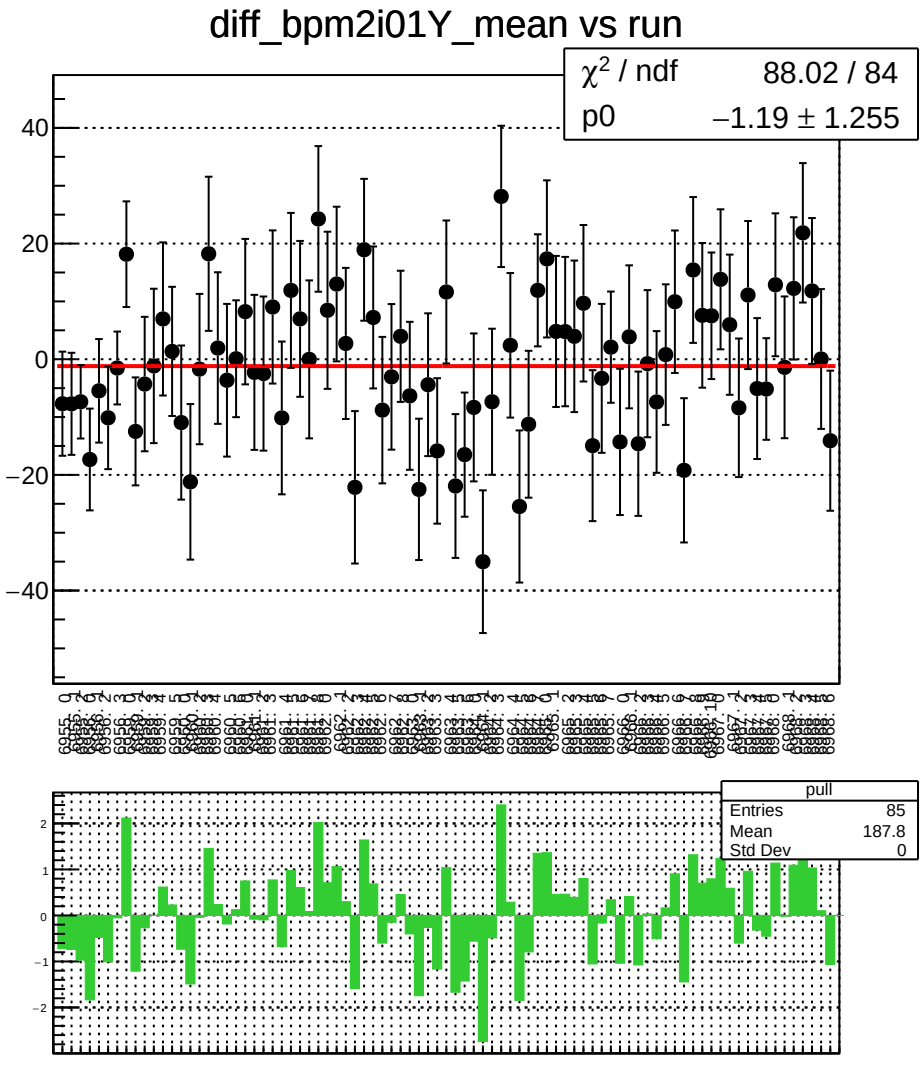

pull1D
Entries 85
Mean 0.001174
Std Dev 0.9731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

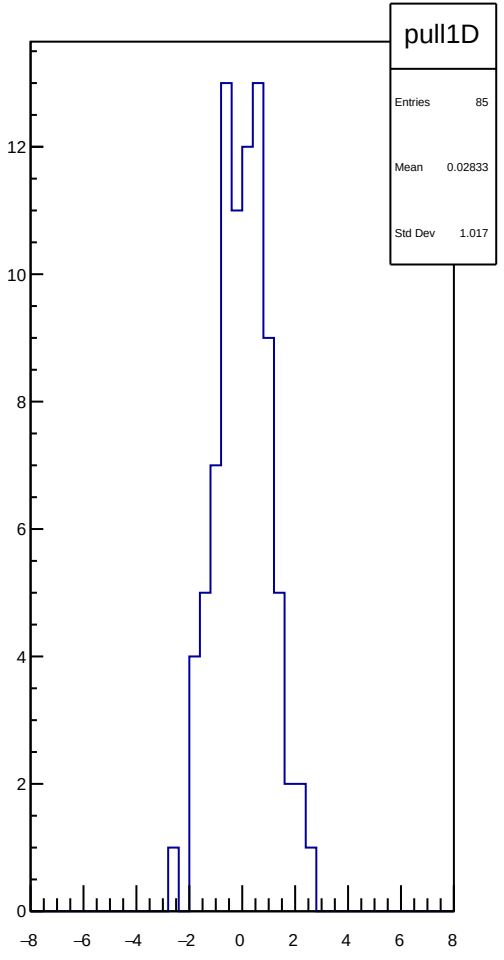

diff_bpm0r05Y_rms vs run
χ² / ndf 3079 / 84
p0 3531 ± 2.758
4100
4000
3900
3800
3700
3600
3500
3400
3300
3200

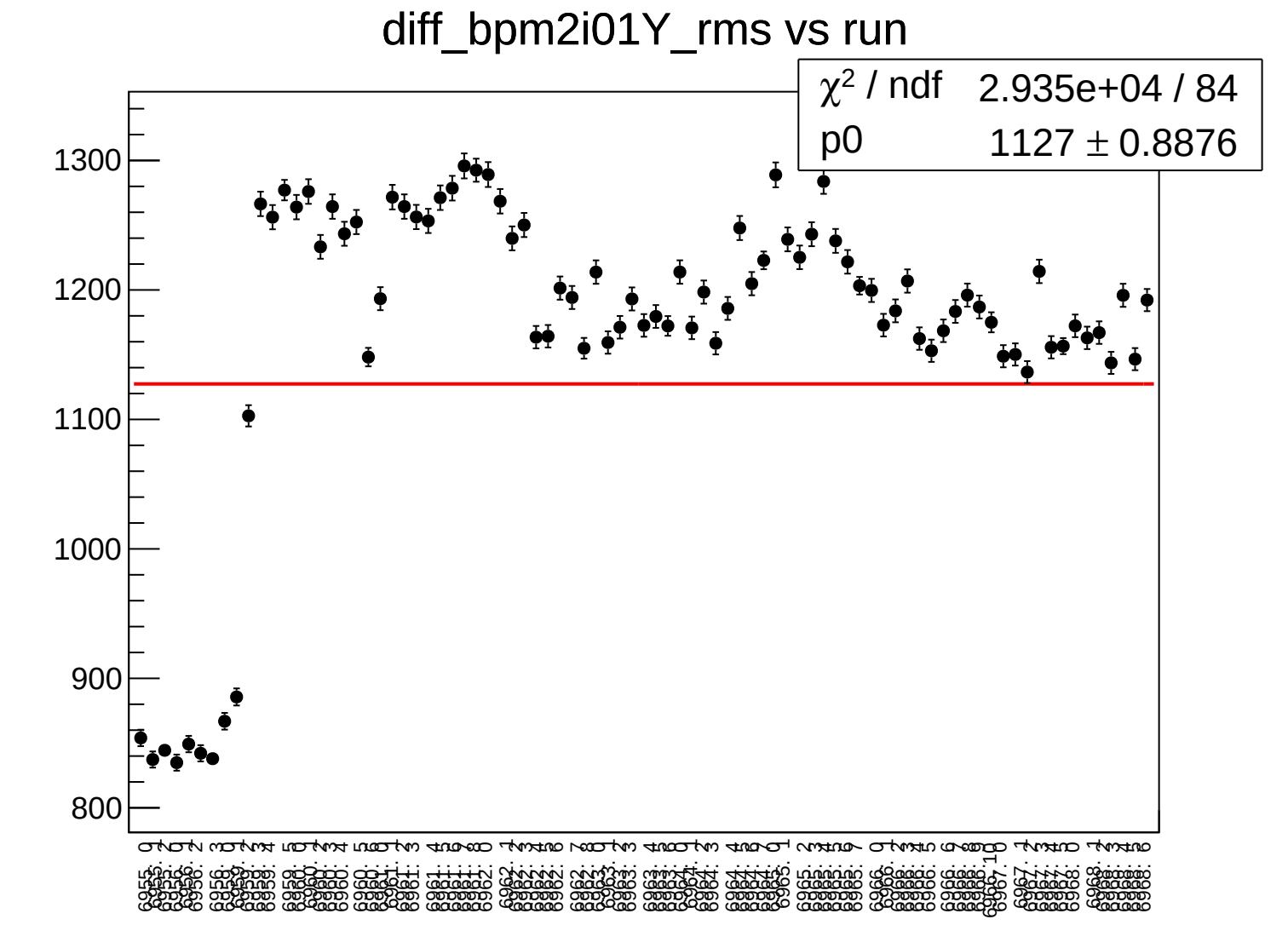

diff_bpm2i01X_mean vs run
χ² / ndf 79.96 / 84
p0 −4.592 ± 1.219
pull
Entries 85
Mean 6.453
Std Dev 0

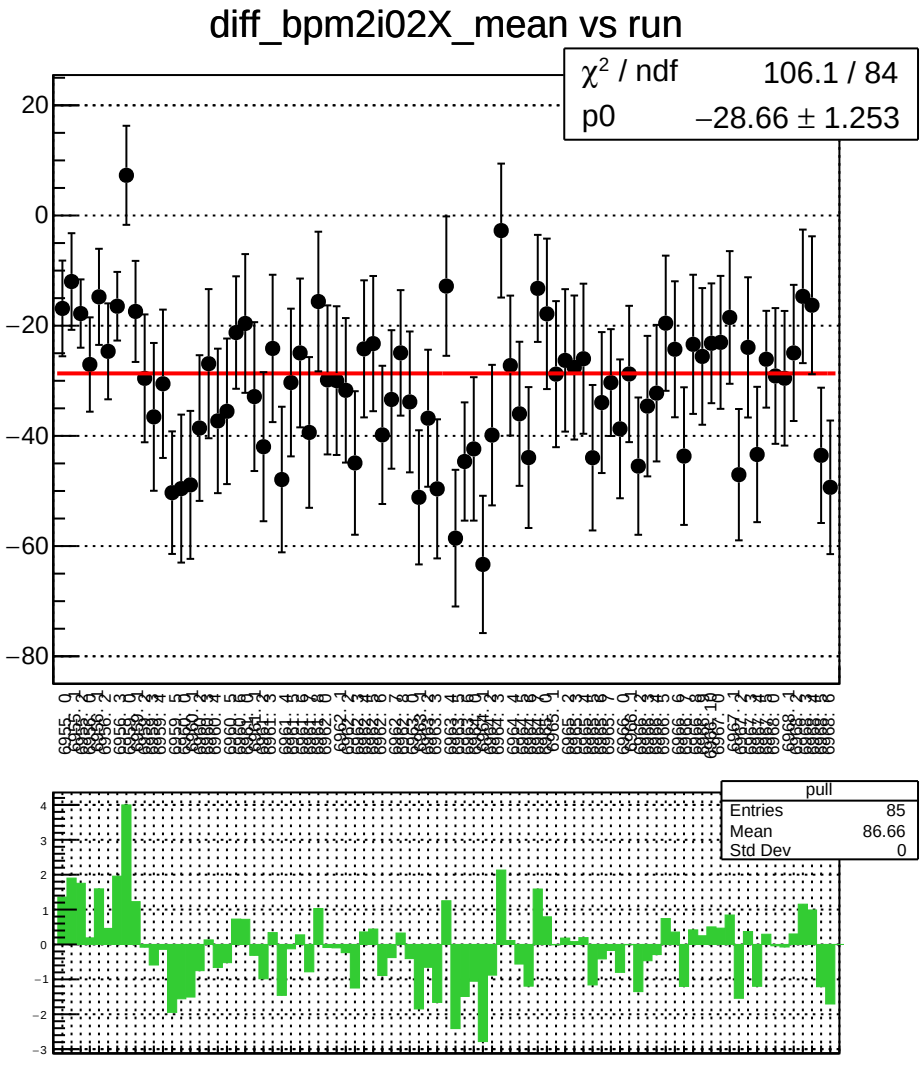

pull1D
Entries 85
Mean −0.002622
Std Dev 0.9699

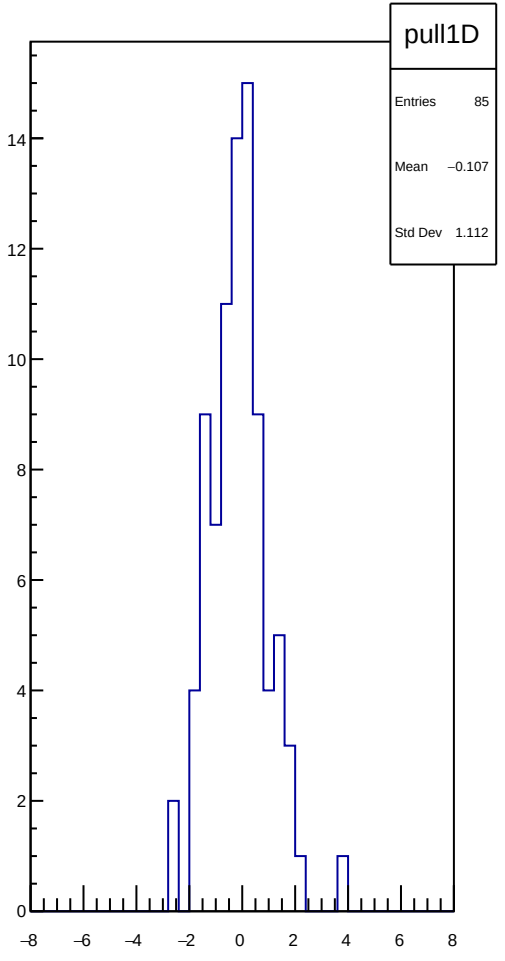

diff_bpm2i01X_rms vs run
χ² / ndf 3.815e+04 / 84
p0 1092 ± 0.862
1300
1200
1100
1000
900
800

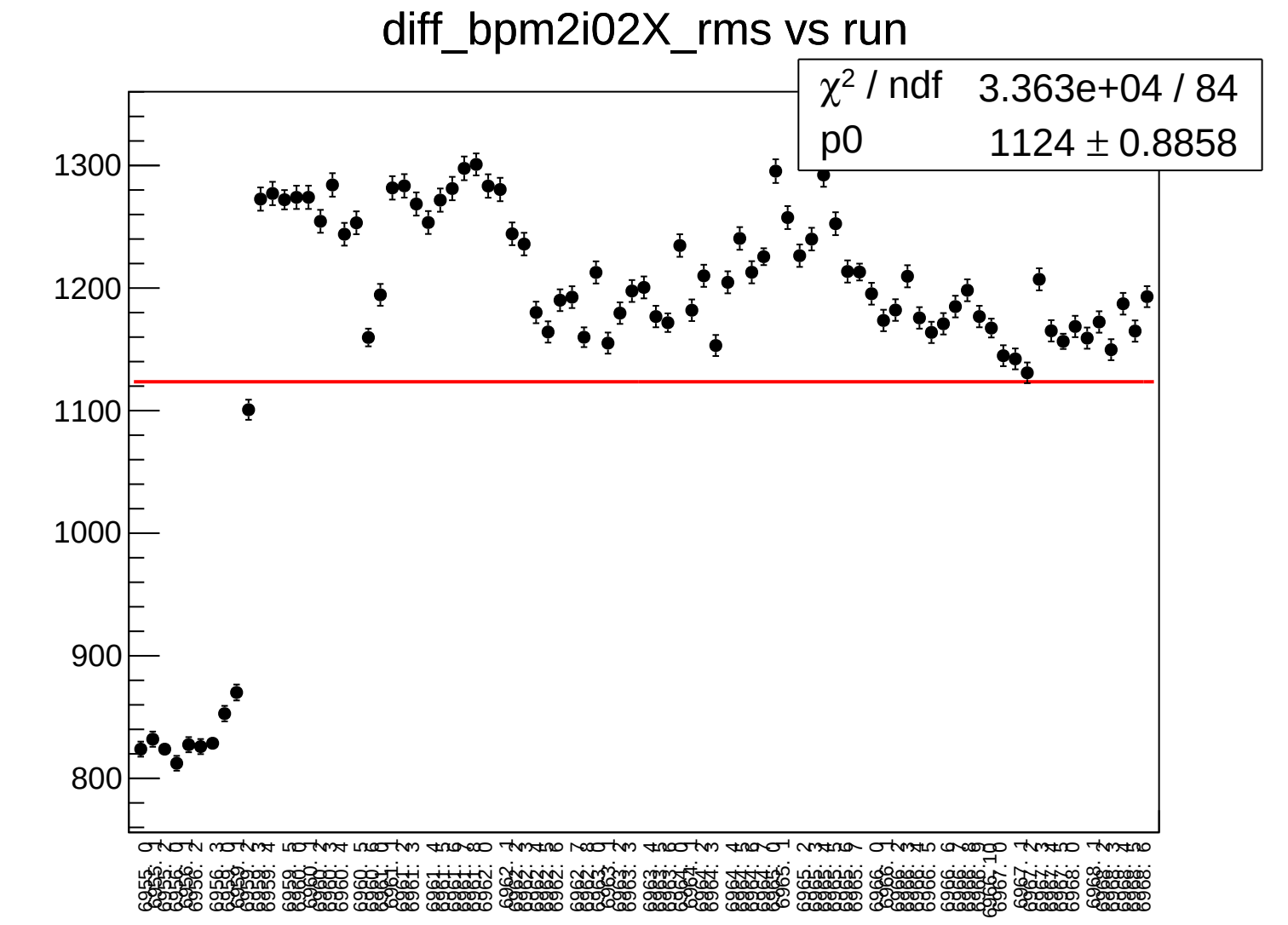

diff_bpm2i01Y_mean vs run
χ² / ndf 88.02 / 84
p0 −1.19 ± 1.255
pull
Entries 85
Mean 187.8
Std Dev 0

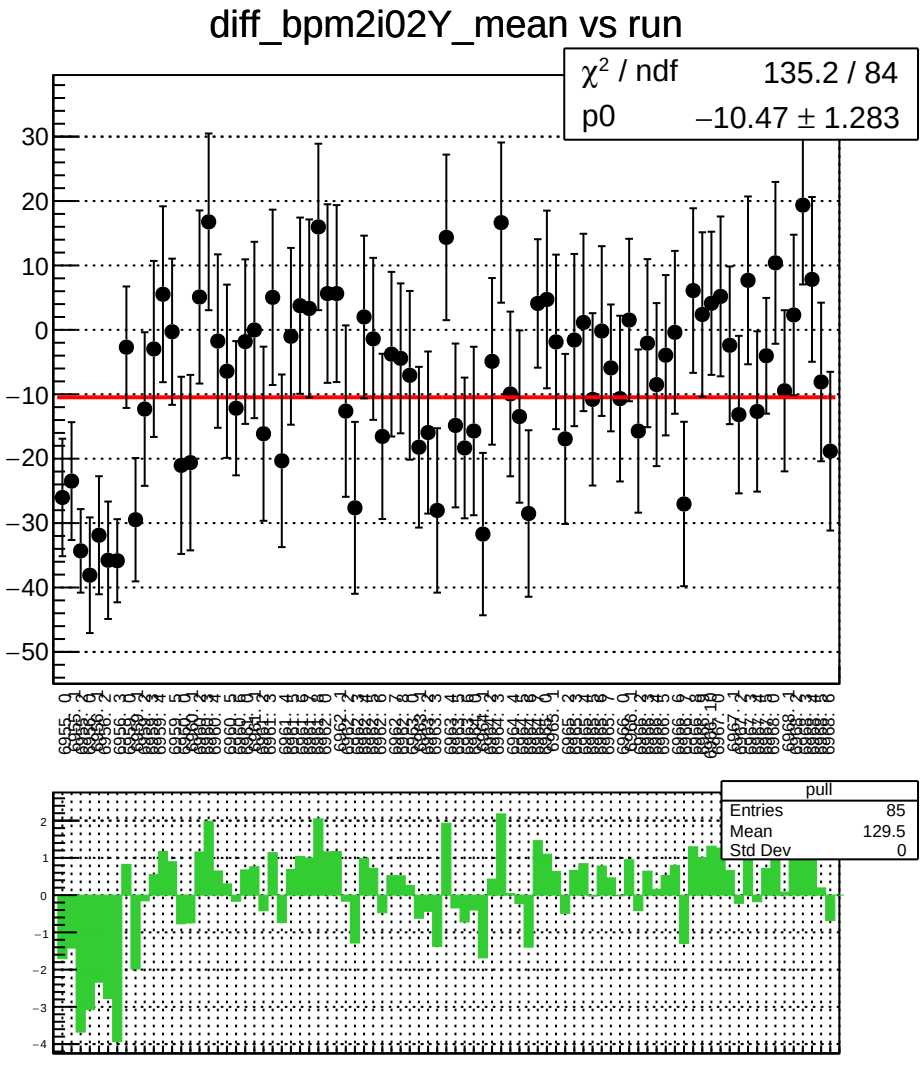

pull1D
Entries 85
Mean 0.02833
Std Dev 1.017

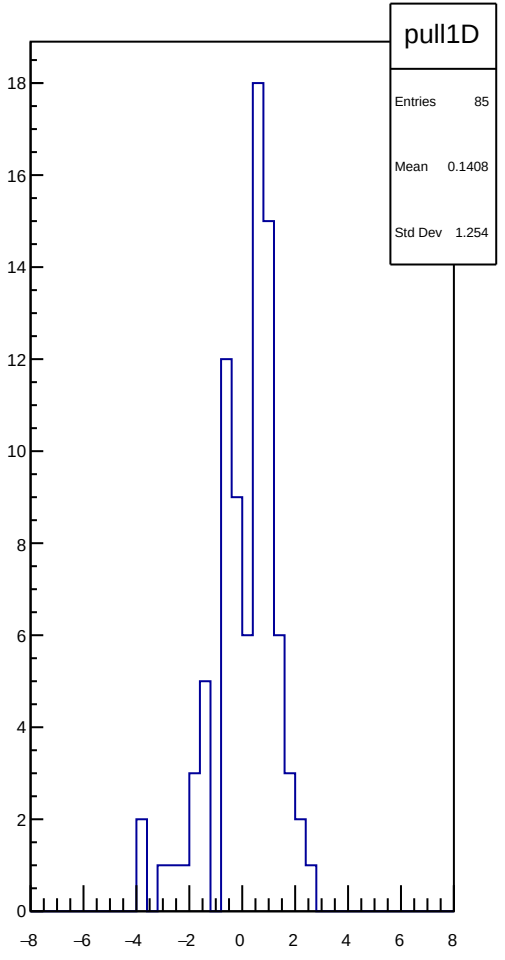

diff_bpm2i01Y_rms vs run
χ² / ndf 2.935e+04 / 84
p0 1127 ± 0.8876
1300
1200
1100
1000
900
800

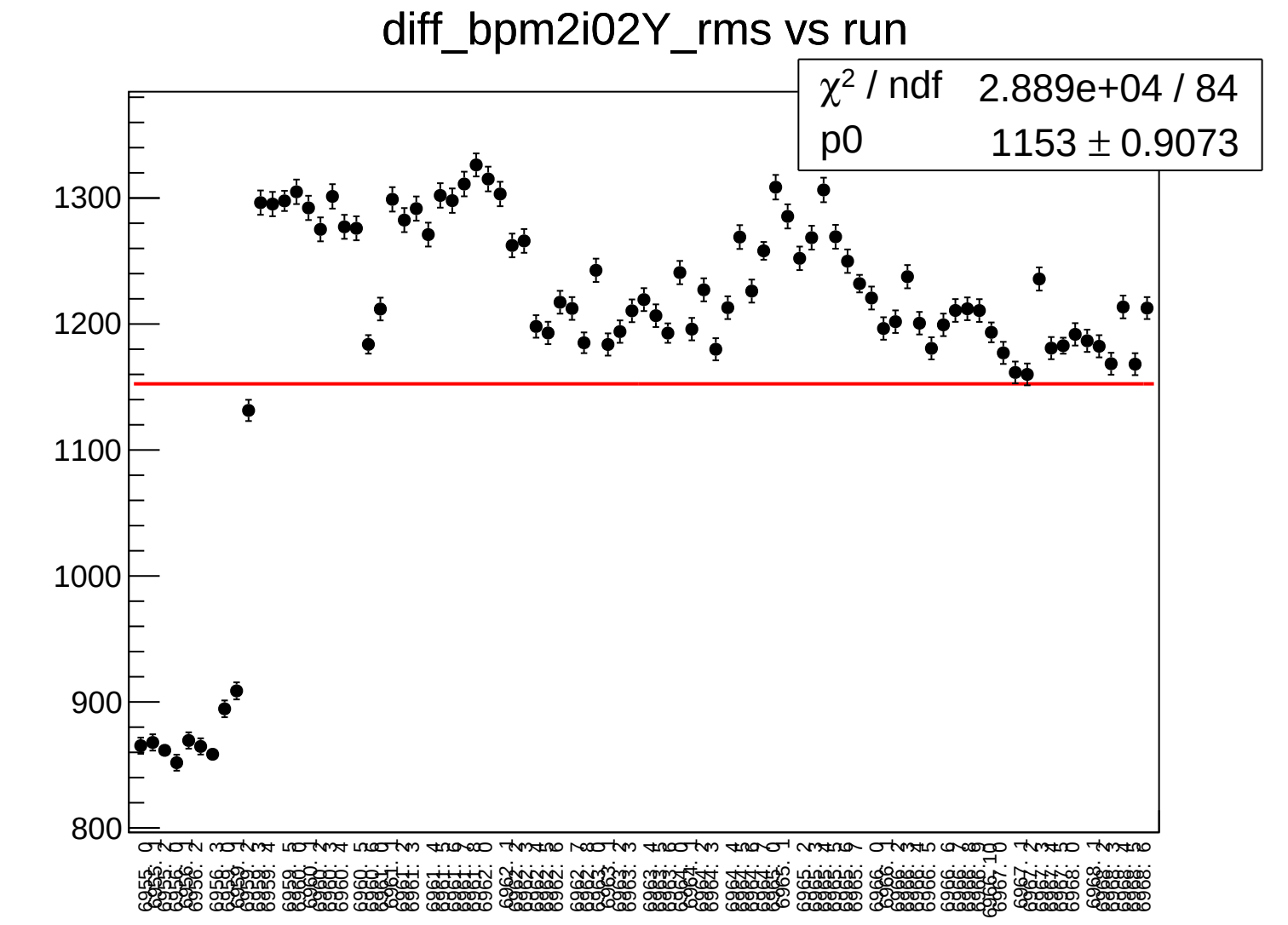

diff_bpm2i02X_mean vs run
χ² / ndf 106.1 / 84
p0 −28.66 ± 1.253
pull
Entries 85
Mean 86.66
Std Dev 0

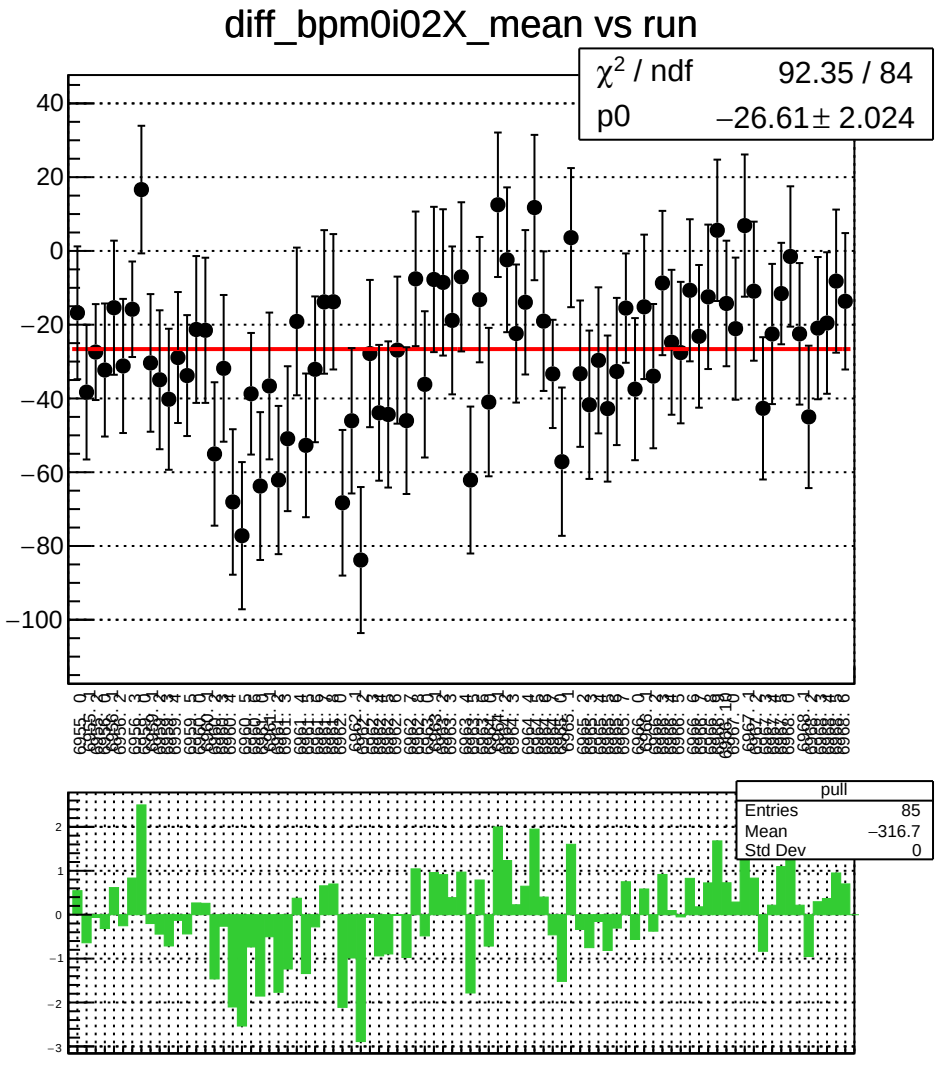

pull1D
Entries 85
Mean −0.107
Std Dev 1.112

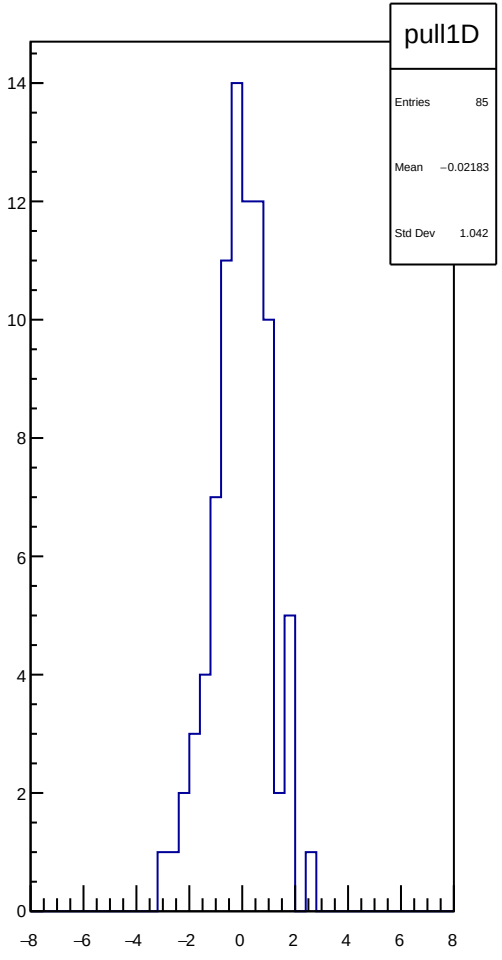

diff_bpm2i02X_rms vs run
χ² / ndf 3.363e+04 / 84
p0 1124 ± 0.8858
1300
1200
1100
1000
900
800

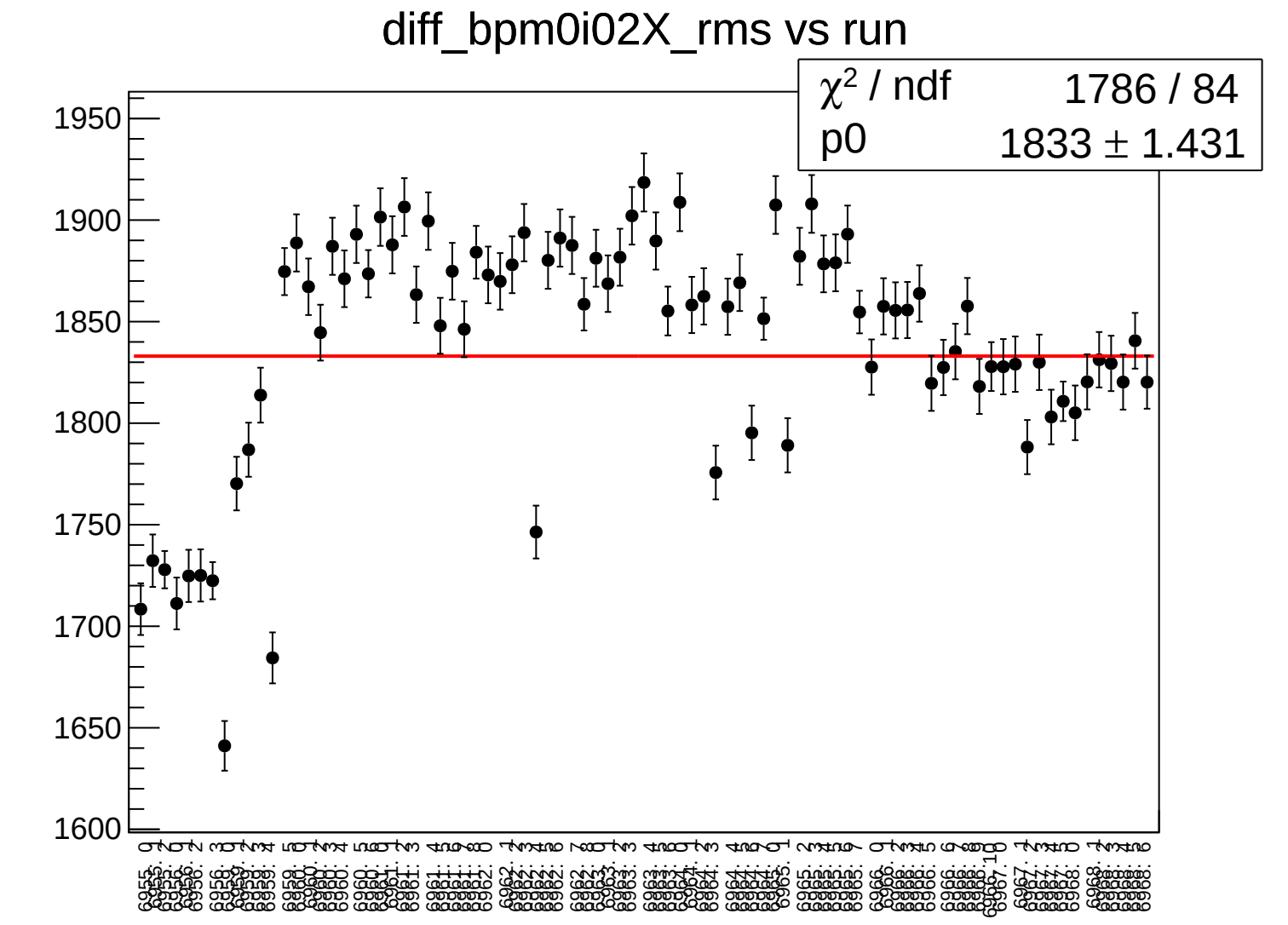

diff_bpm2i02Y_mean vs run
χ² / ndf 135.2 / 84
p0 −10.47 ± 1.283
pull
Entries 85
Mean 129.5
Std Dev 0

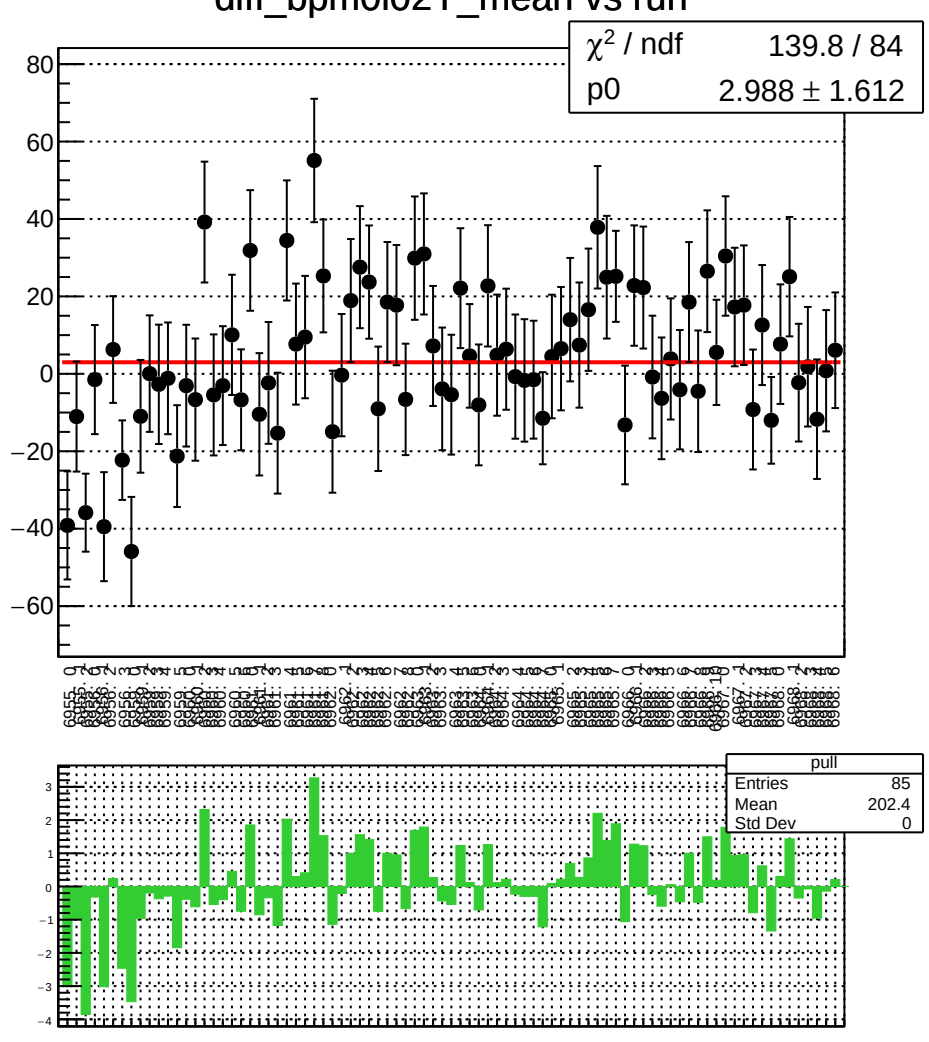

pull1D
Entries 85
Mean 0.1408
Std Dev 1.254

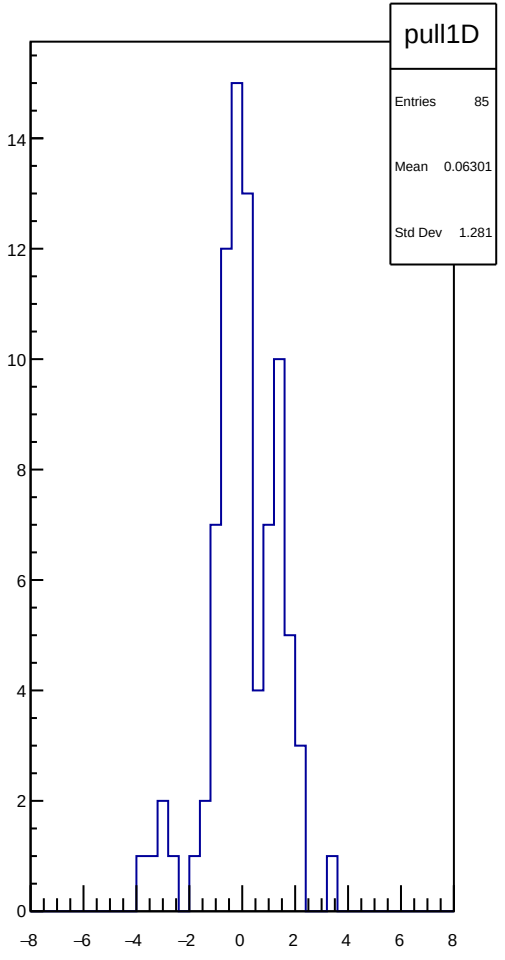

diff_bpm2i02Y_rms vs run
χ² / ndf 2.889e+04 / 84
p0 1153 ± 0.9073
1300
1200
1100
1000
900
800

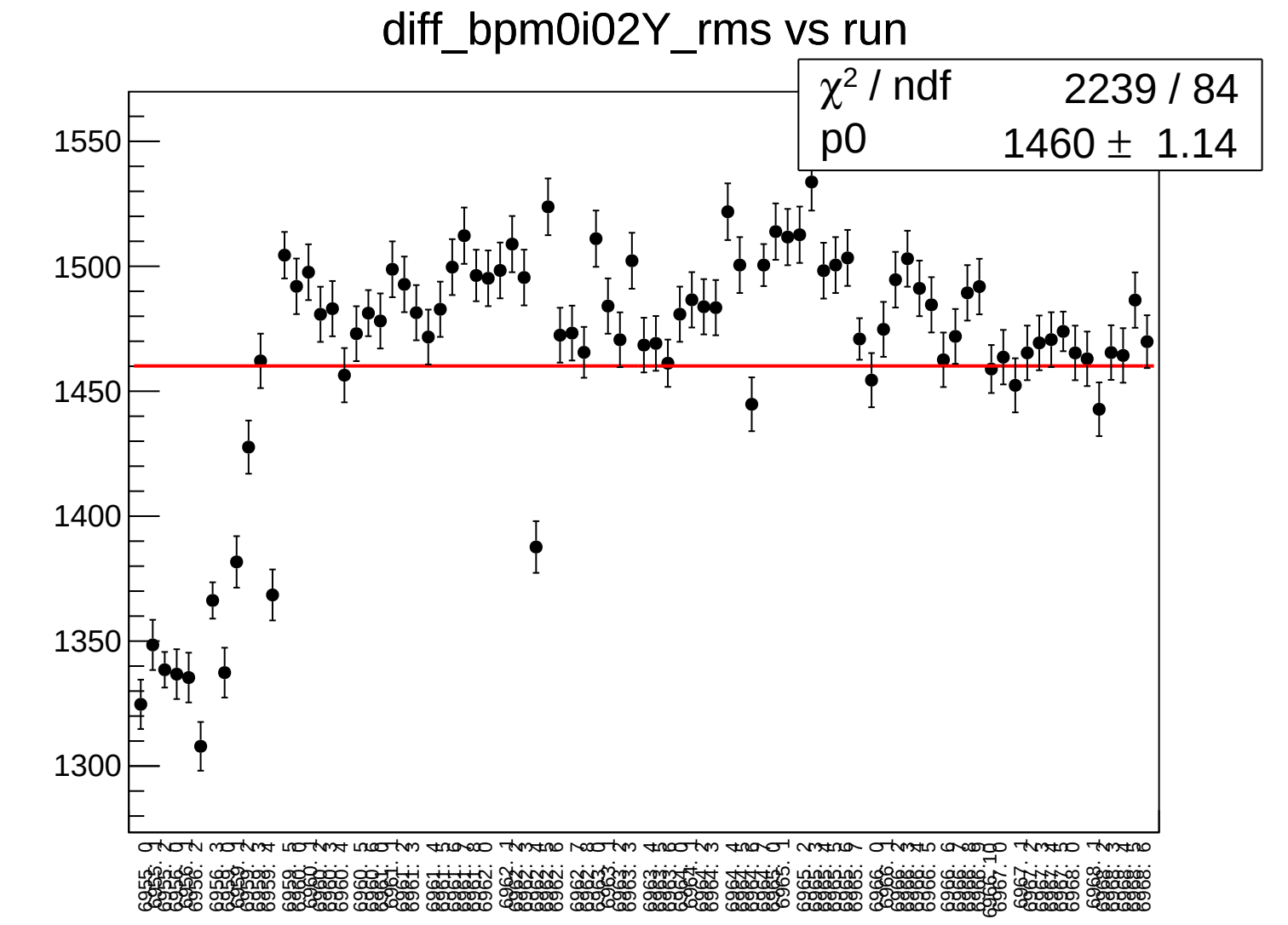

diff_bpm0i02X_mean vs run
χ² / ndf 92.35 / 84
p0 −26.61 ± 2.024
pull
Entries 85
Mean −316.7
Std Dev 0

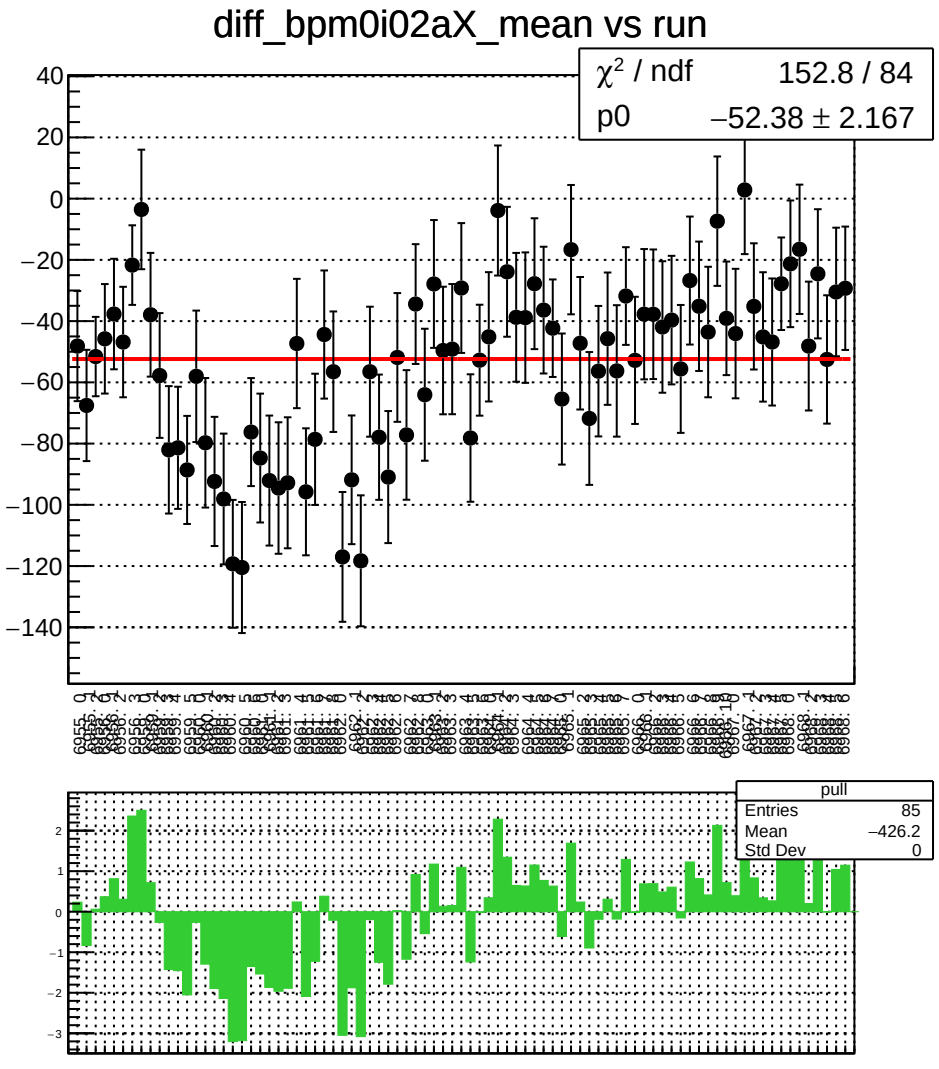

pull1D
Entries 85
Mean −0.02183
Std Dev 1.042

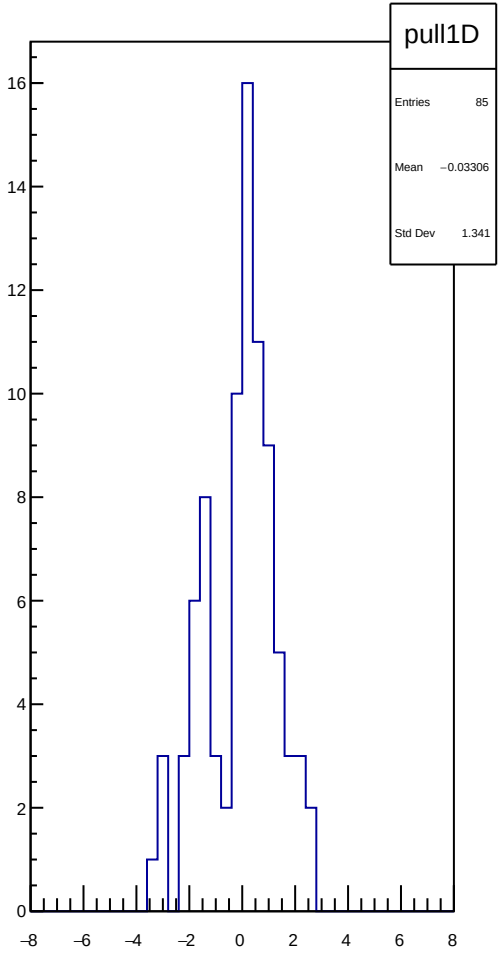

diff_bpm0i02X_rms vs run
χ² / ndf 1786 / 84
p0 1833 ± 1.431
1950
1900
1850
1800
1750
1700
1650
1600

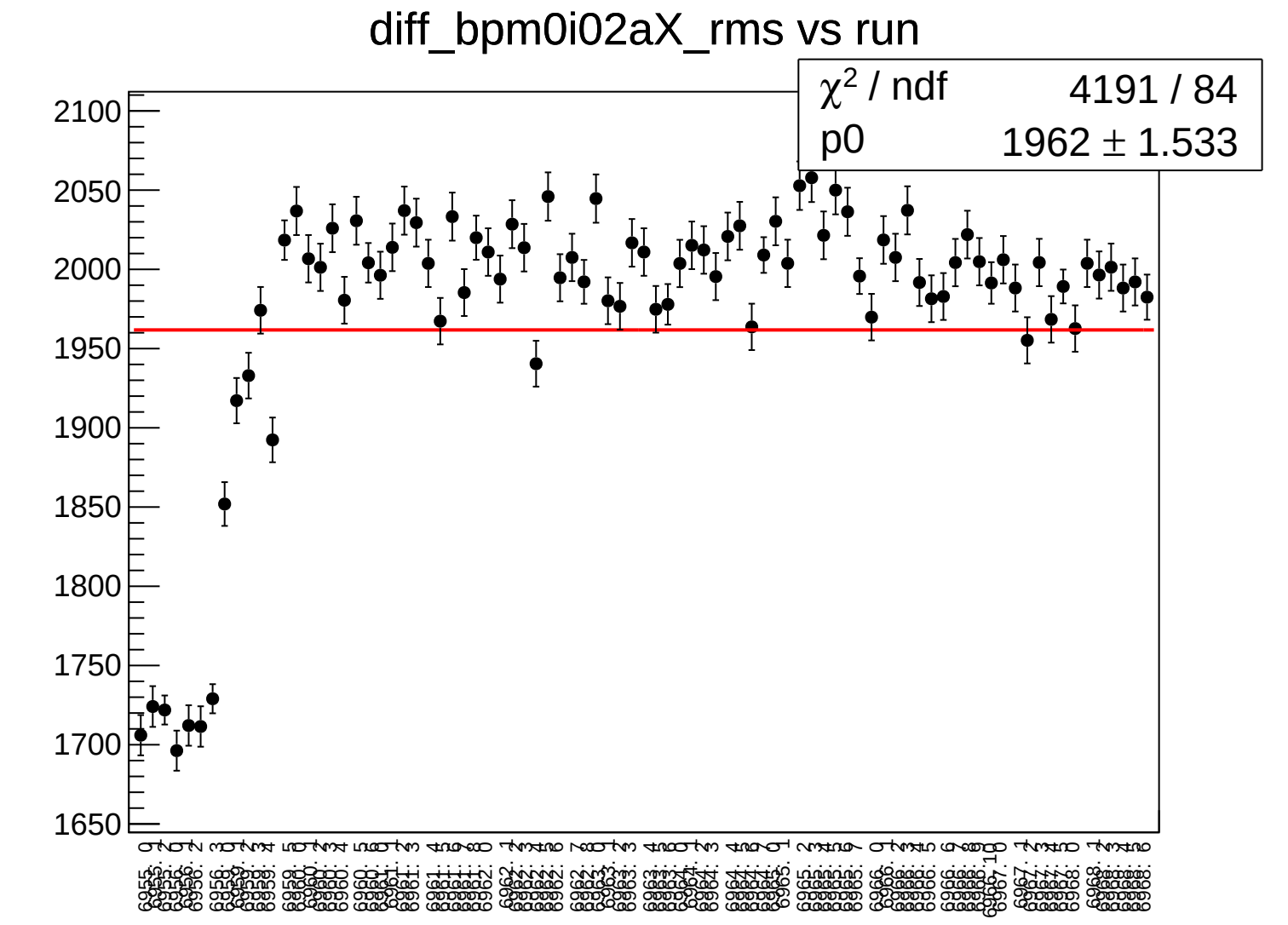

diff_bpm0i02Y_mean vs run
χ² / ndf 139.8 / 84
p0 2.988 ± 1.612
pull
Entries 85
Mean 202.4
Std Dev 0

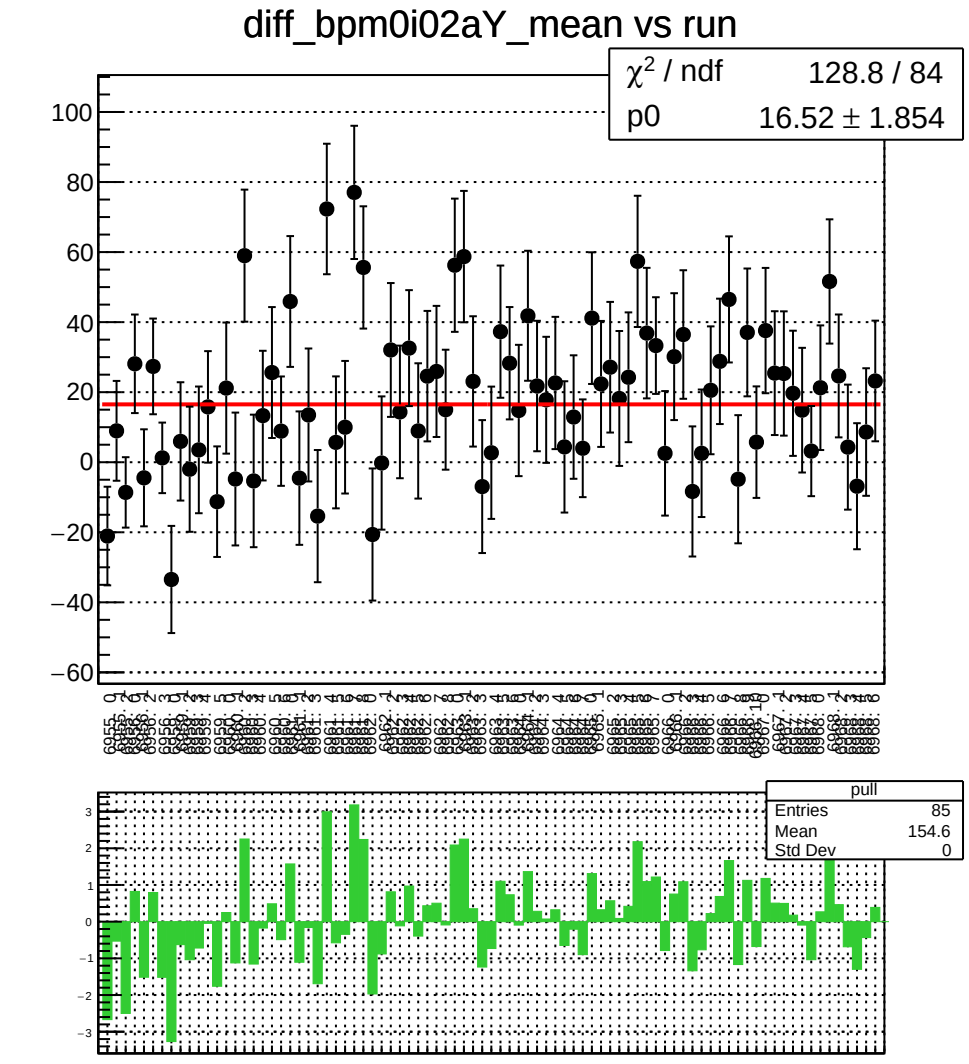

pull1D
Entries 85
Mean 0.06301
Std Dev 1.281

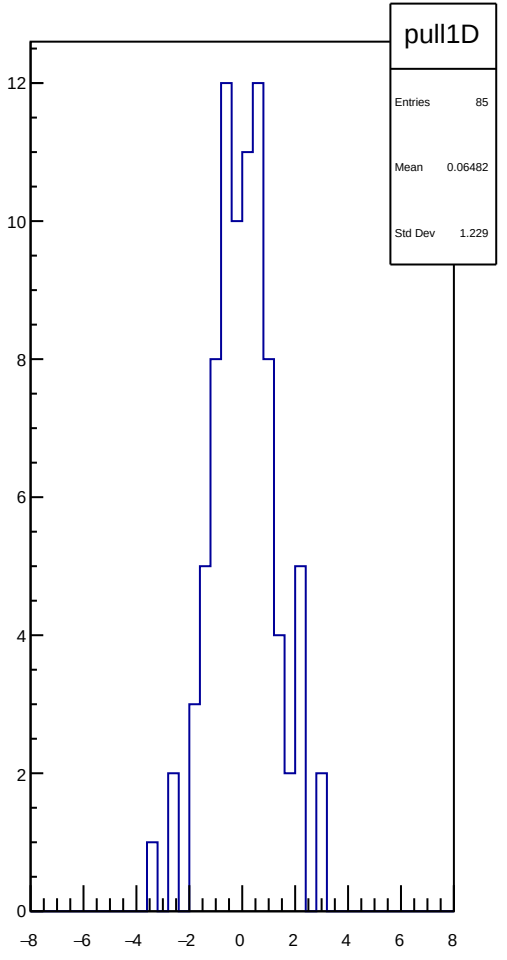

diff_bpm0i02Y_rms vs run
χ² / ndf 2239 / 84
p0 1460 ± 1.14
1550
1500
1450
1400
1350
1300

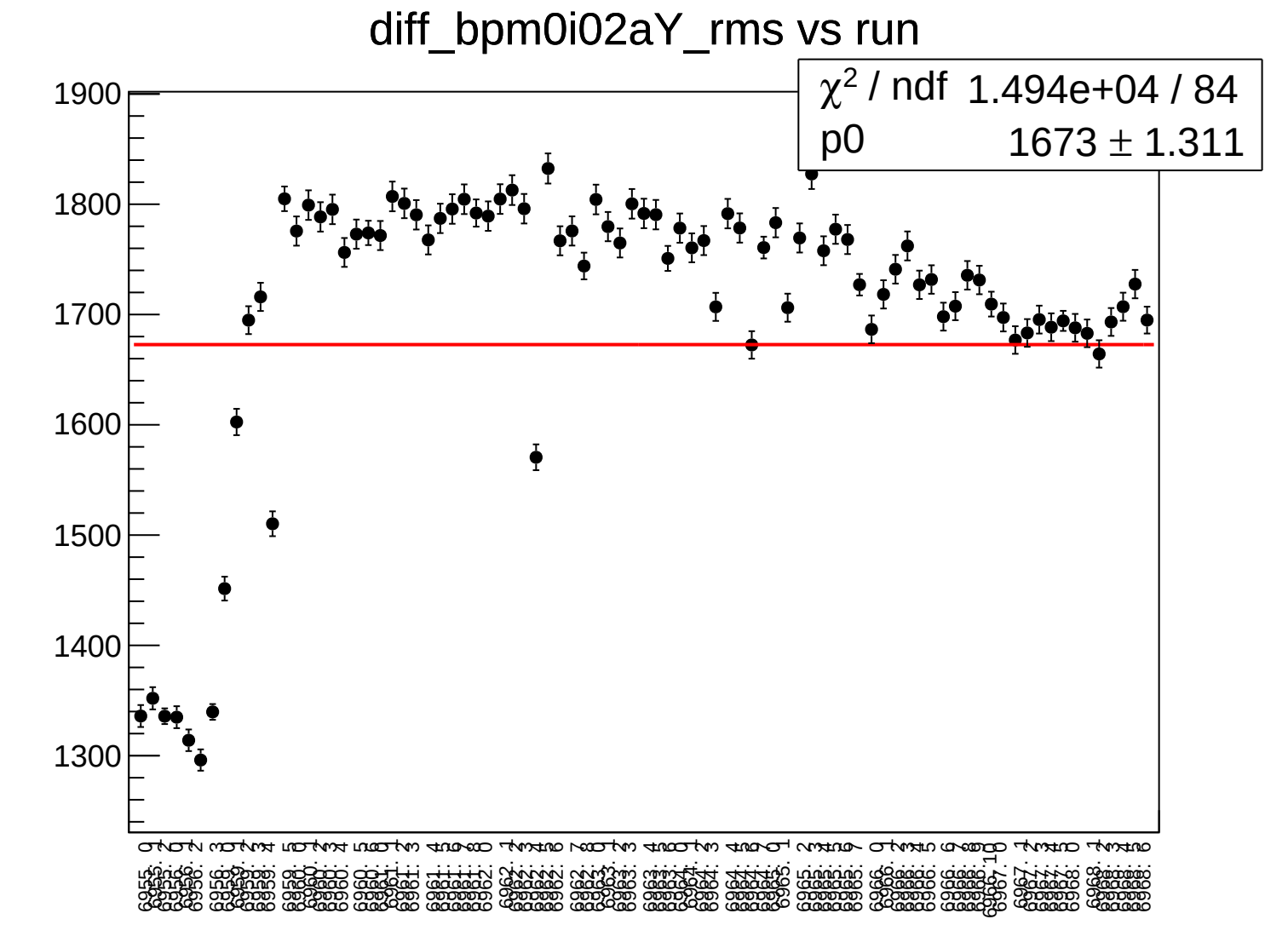

diff_bpm0i02aX_mean vs run
χ² / ndf 152.8 / 84
p0 −52.38 ± 2.167
pull
Entries 85
Mean −426.2
Std Dev 0

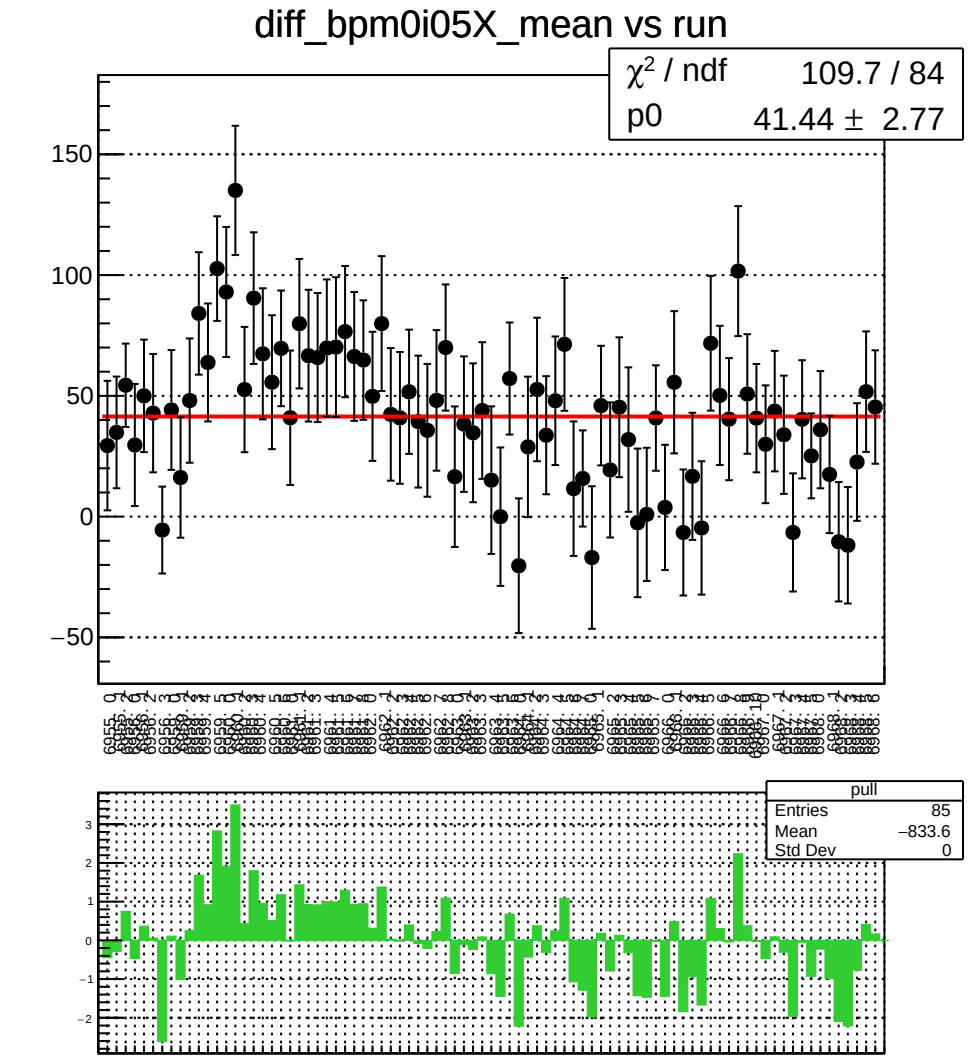

pull1D
Entries 85
Mean −0.03306
Std Dev 1.341

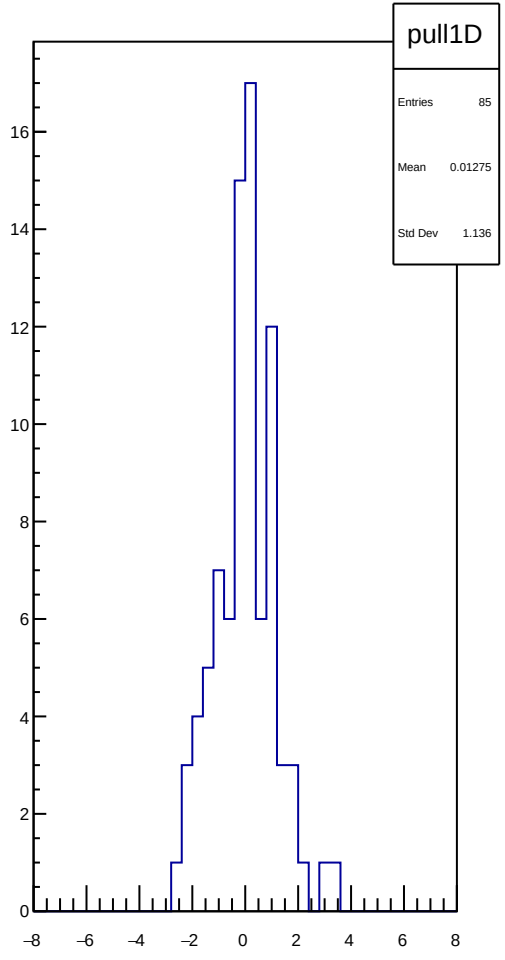

diff_bpm0i02aX_rms vs run
χ² / ndf 4191 / 84
p0 1962 ± 1.533
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

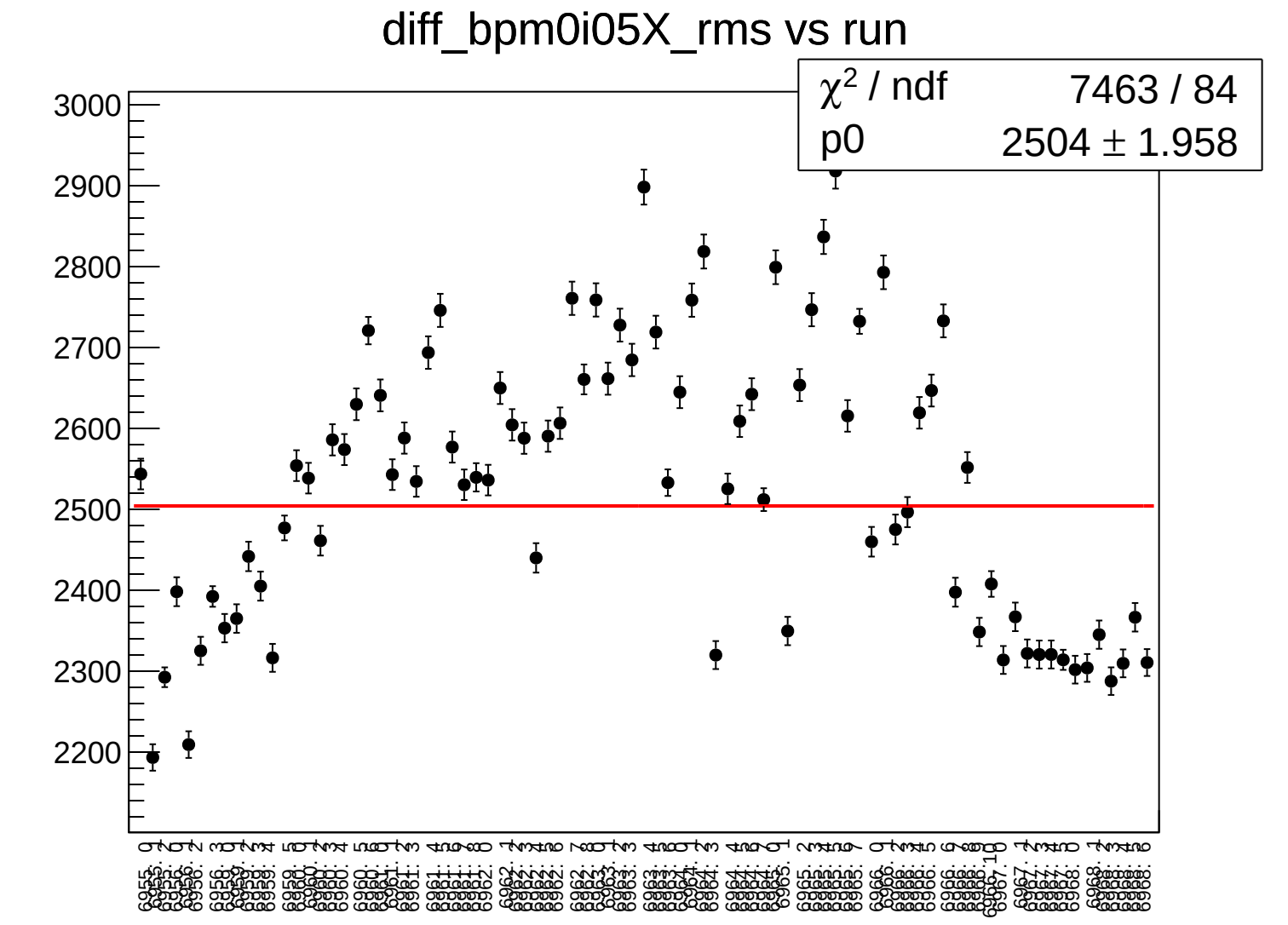

diff_bpm0i02aY_mean vs run
χ² / ndf 128.8 / 84
p0 16.52 ± 1.854
pull
Entries 85
Mean 154.6
Std Dev 0

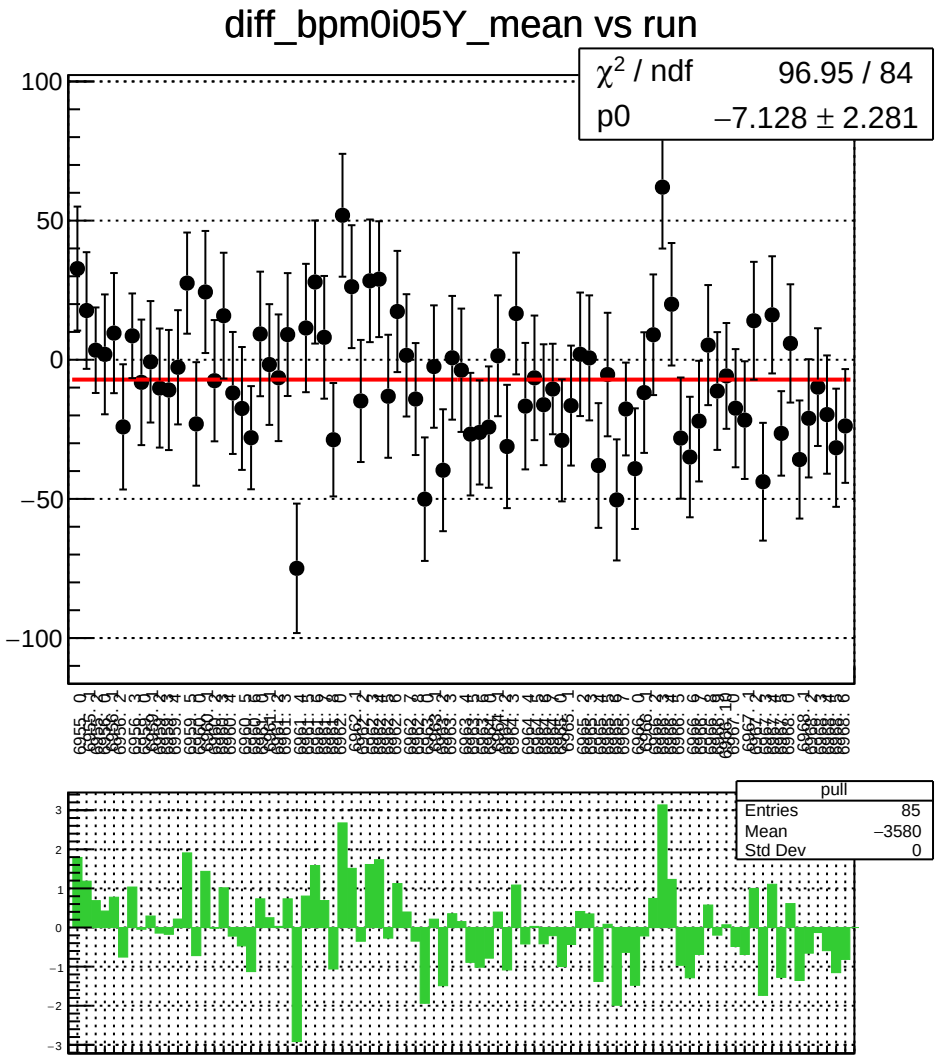

pull1D
Entries 85
Mean 0.06482
Std Dev 1.229

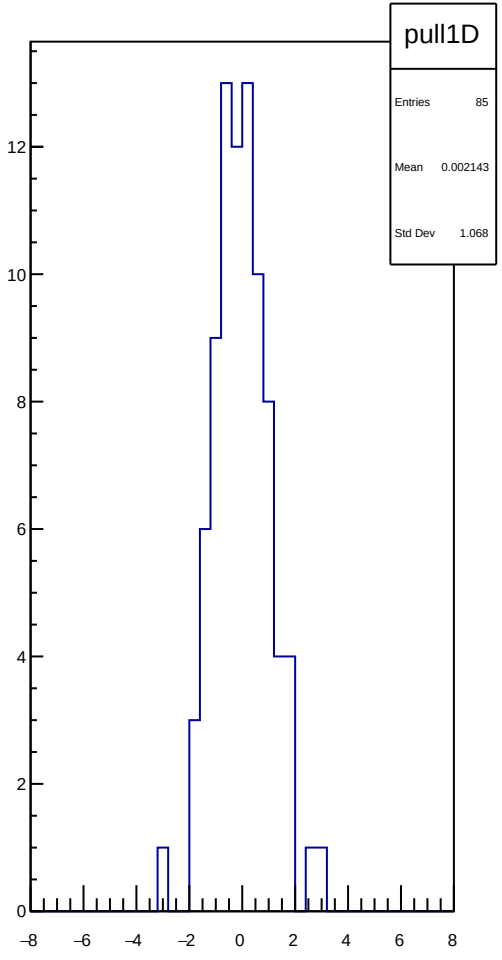

diff_bpm0i02aY_rms vs run
χ² / ndf 1.494e+04 / 84
p0 1673 ± 1.311
1900
1800
1700
1600
1500
1400
1300

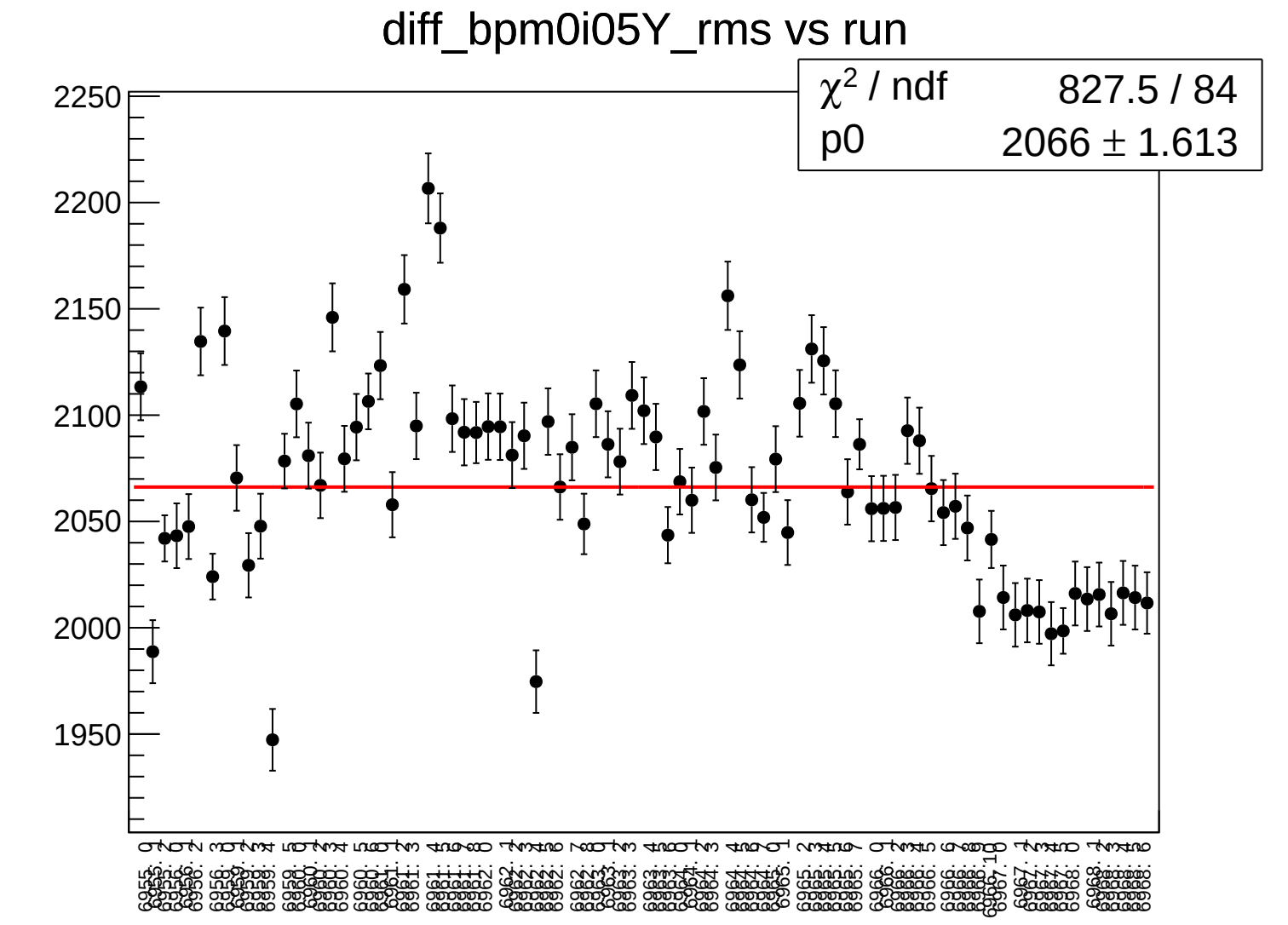

diff_bpm0i05X_mean vs run
χ² / ndf 109.7 / 84
p0 41.44 ± 2.77
150
100
50
0
−50
pull
Entries 85
Mean −833.6
Std Dev 0
3
2
1
0
−1
−2

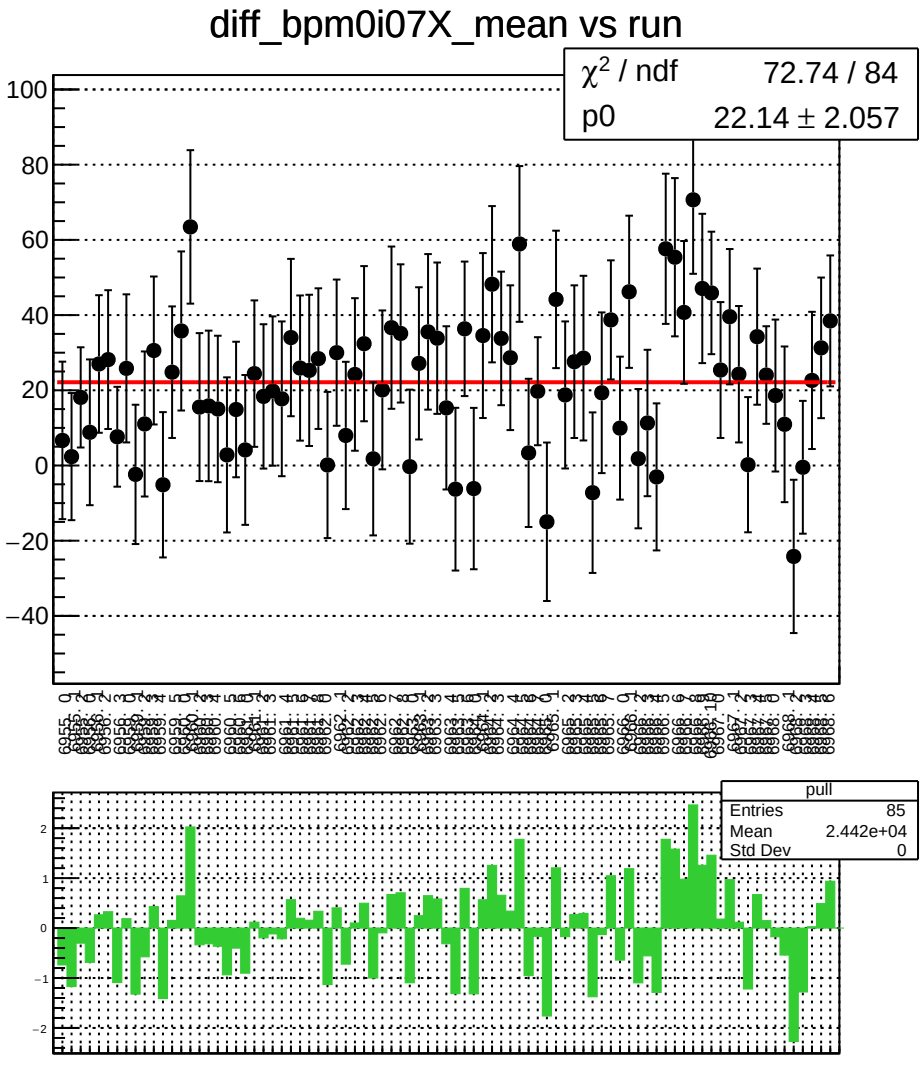

pull1D
Entries 85
Mean 0.01275
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

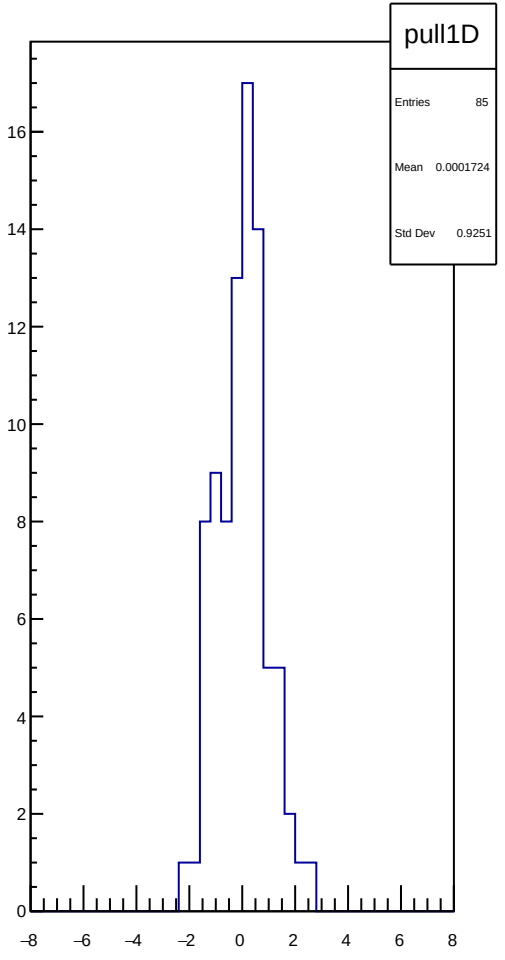

diff_bpm0i05X_rms vs run
χ² / ndf 7463 / 84
p0 2504 ± 1.958
3000
2900
2800
2700
2600
2500
2400
2300
2200

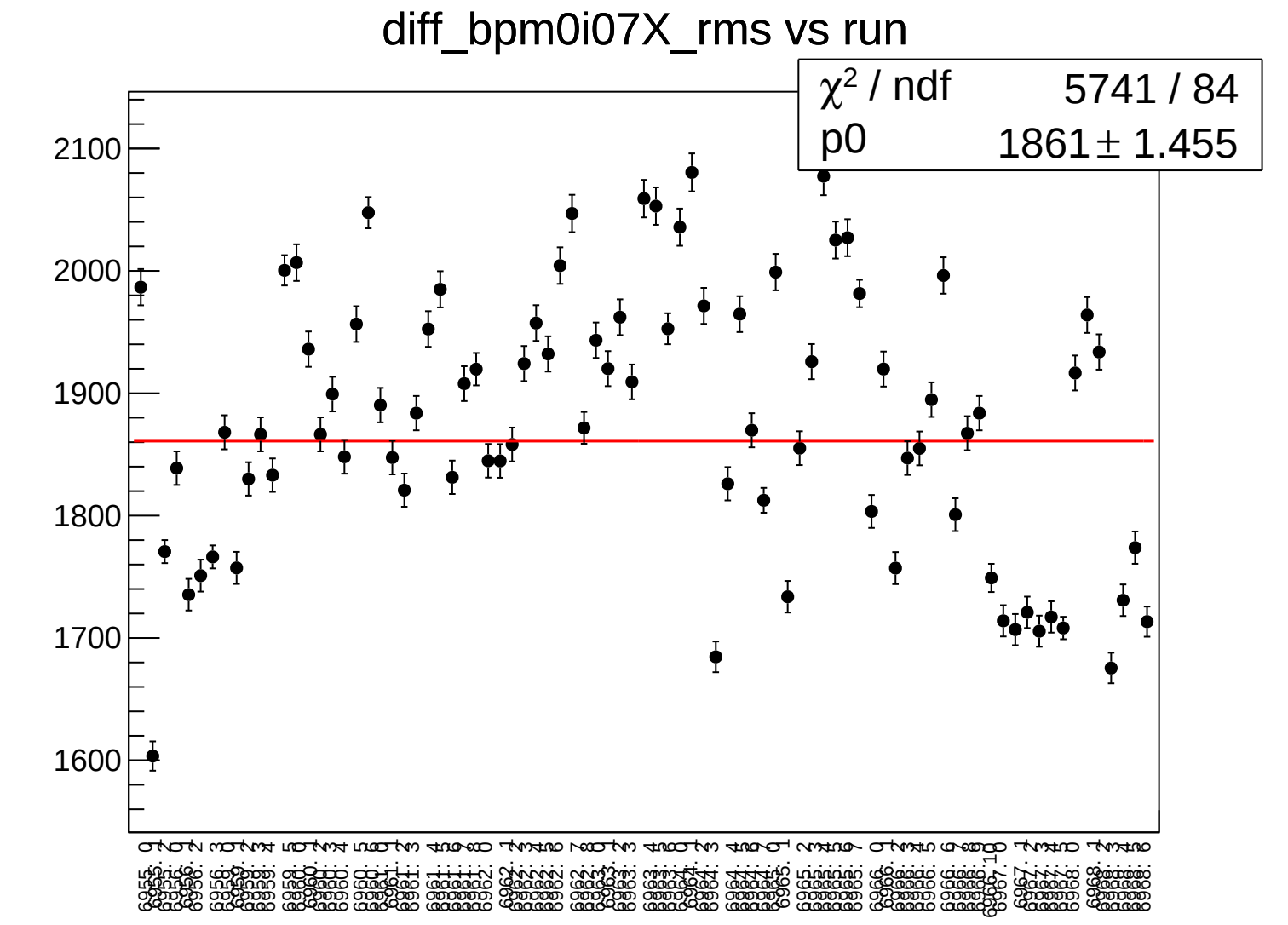

diff_bpm0i05Y_mean vs run
χ² / ndf 96.95 / 84
p0 −7.128 ± 2.281
pull
Entries 85
Mean −3580
Std Dev 0

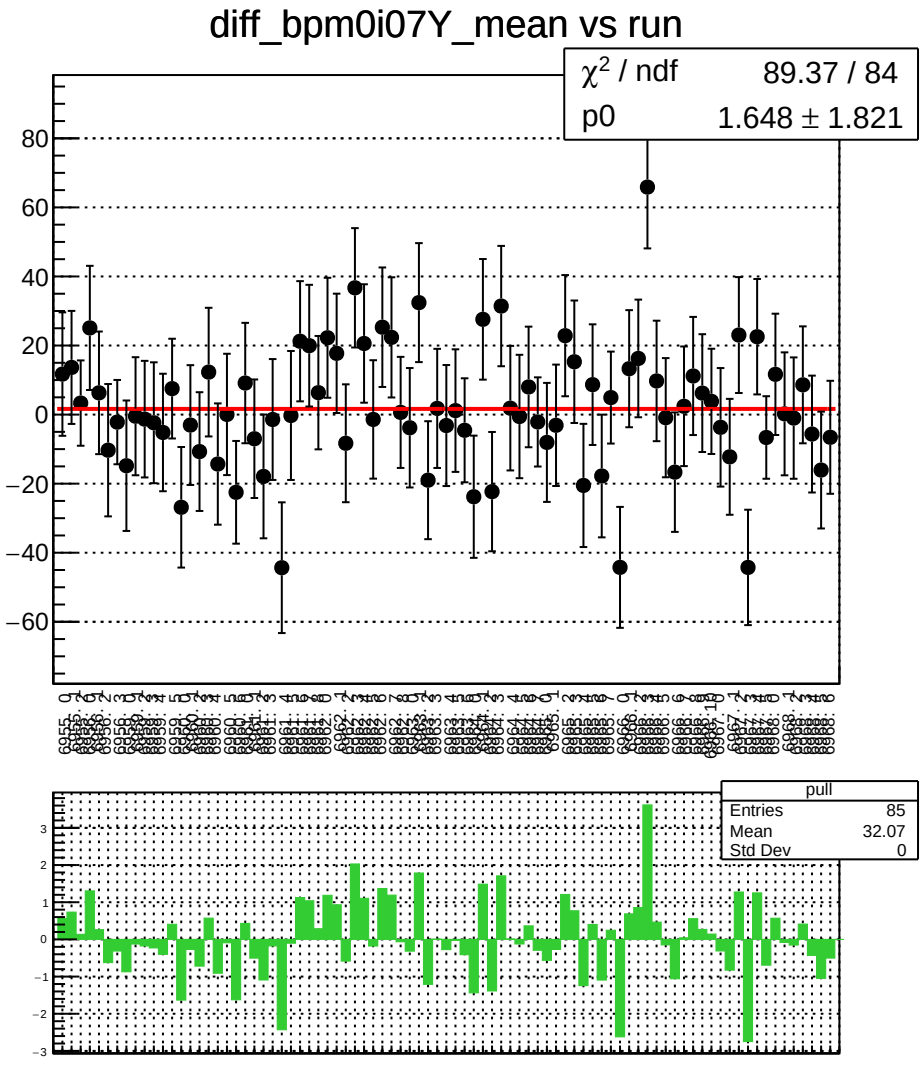

pull1D
Entries 85
Mean 0.002143
Std Dev 1.068

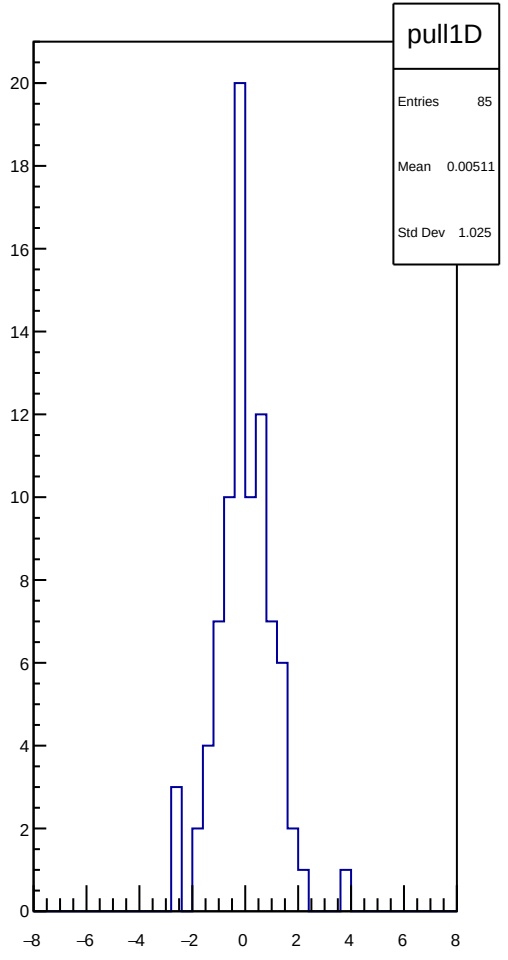

diff_bpm0i05Y_rms vs run
χ² / ndf 827.5 / 84
p0 2066 ± 1.613
2250
2200
2150
2100
2050
2000
1950

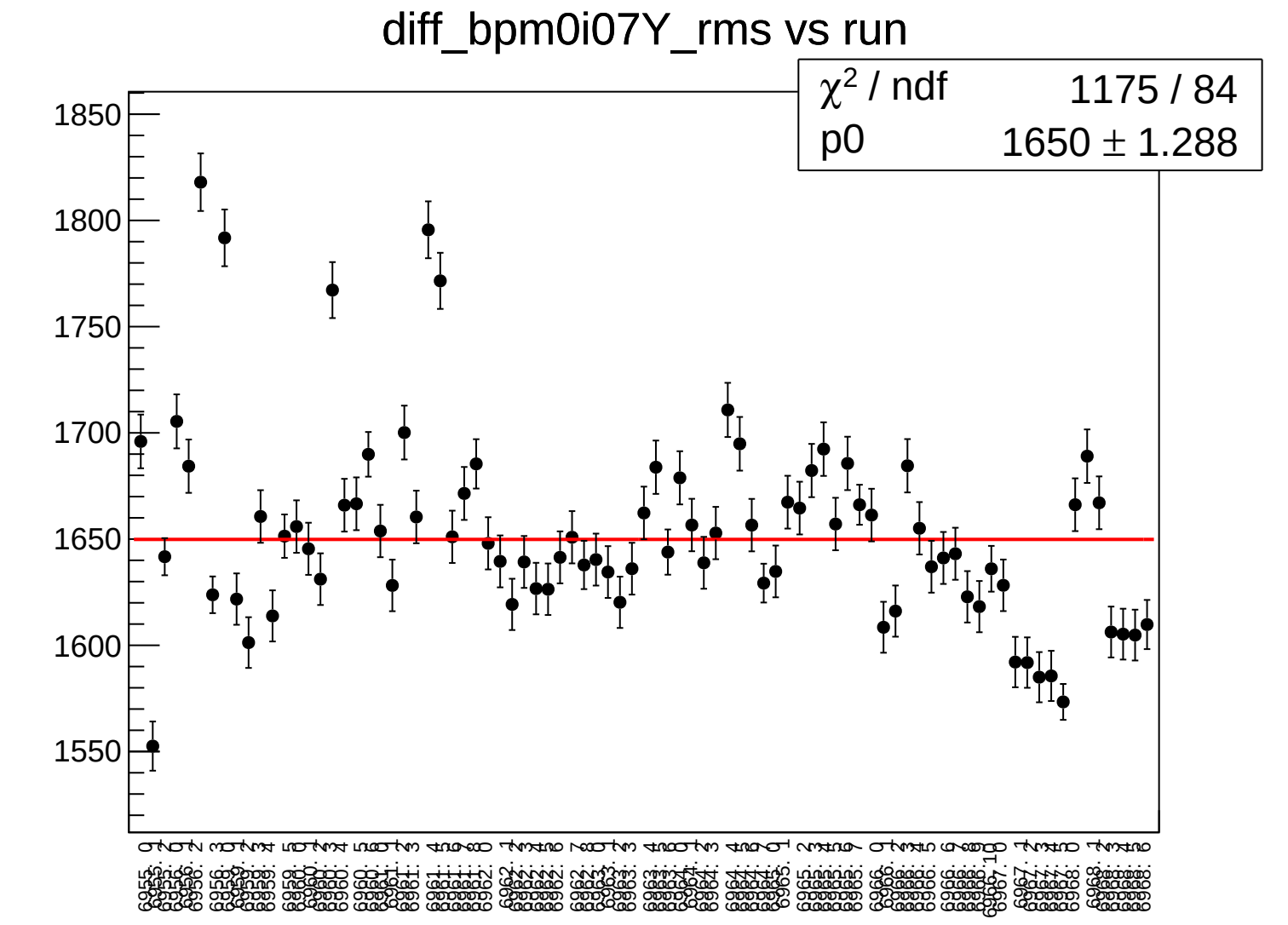

diff_bpm0i07X_mean vs run
χ² / ndf 72.74 / 84
p0 22.14 ± 2.057
pull
Entries 85
Mean 2.442e+04
Std Dev 0

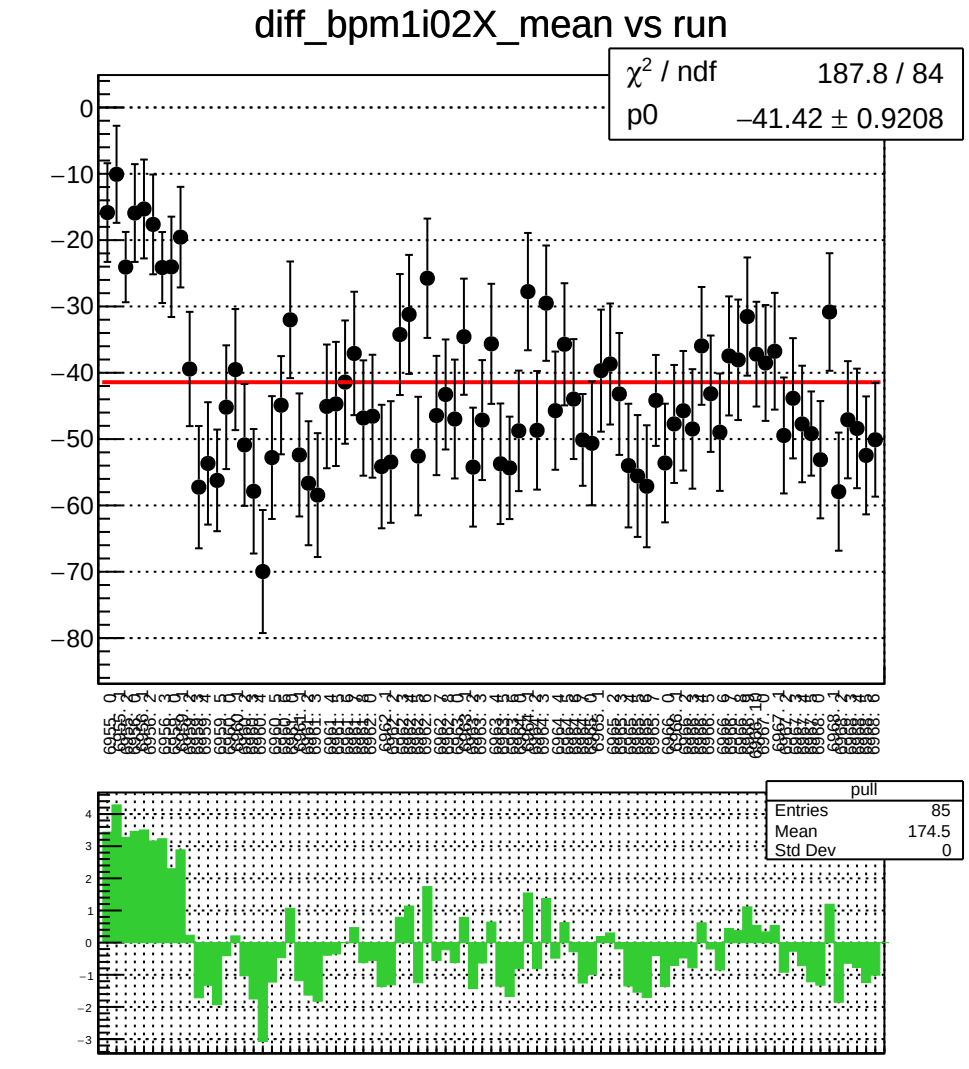

pull1D
Entries 85
Mean 0.0001724
Std Dev 0.9251

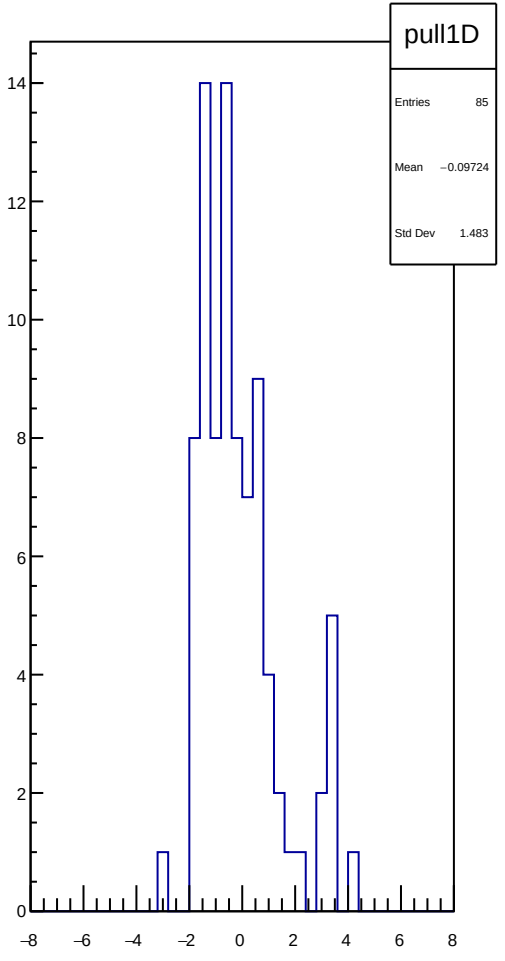

diff_bpm0i07X_rms vs run
χ² / ndf 5741 / 84
p0 1861 ± 1.455
2100
2000
1900
1800
1700
1600

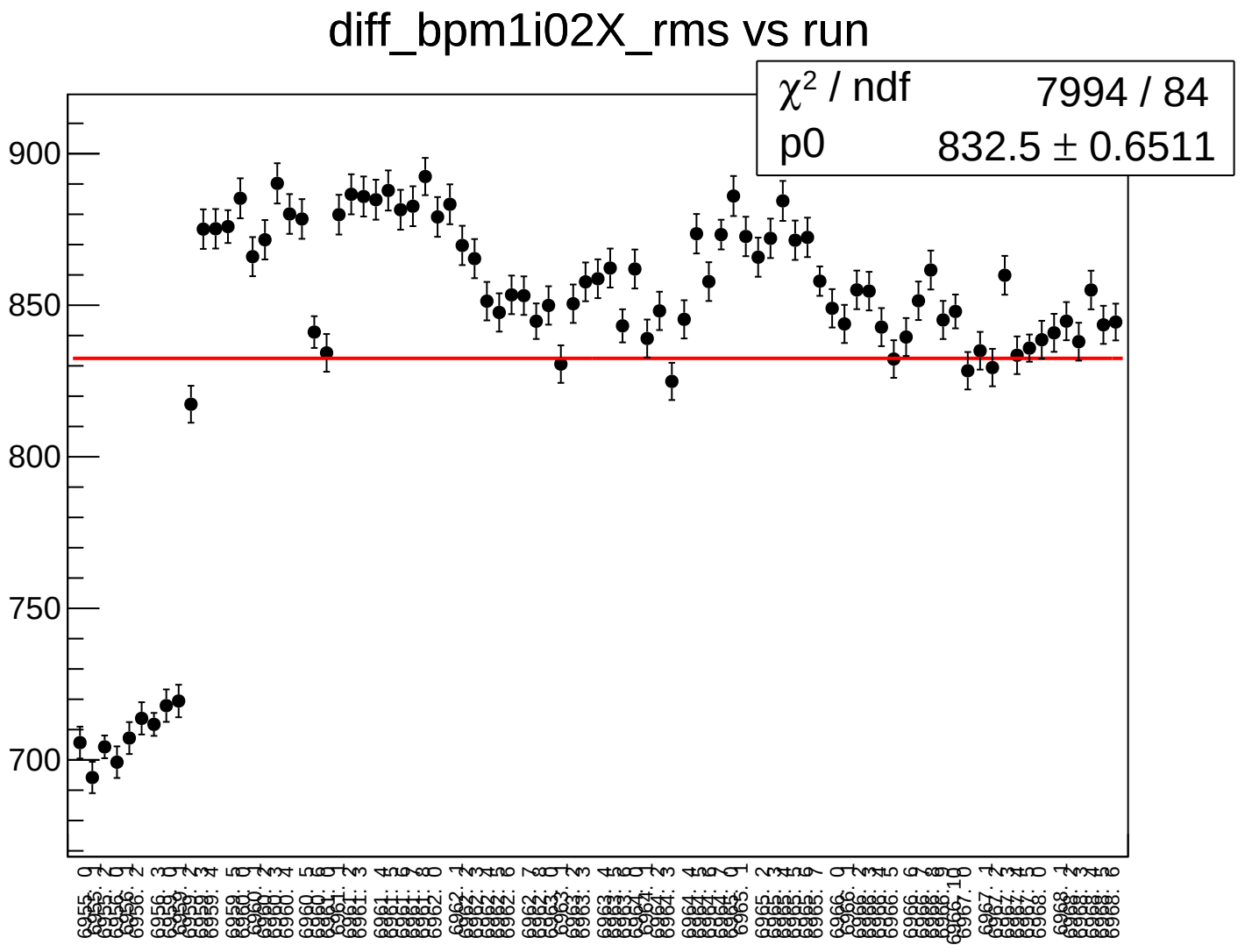

diff_bpm0i07Y_mean vs run
χ² / ndf 89.37 / 84
p0 1.648 ± 1.821
pull
Entries 85
Mean 32.07
Std Dev 0

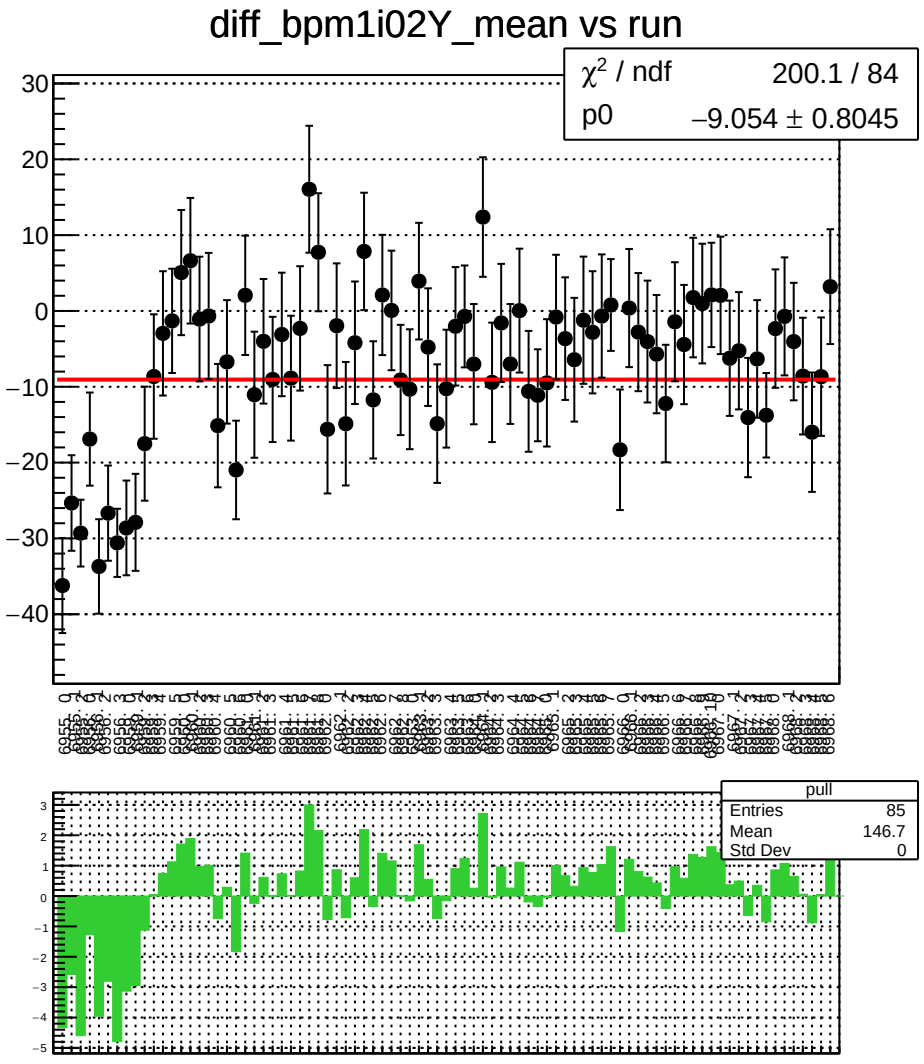

pull1D
Entries 85
Mean 0.00511
Std Dev 1.025

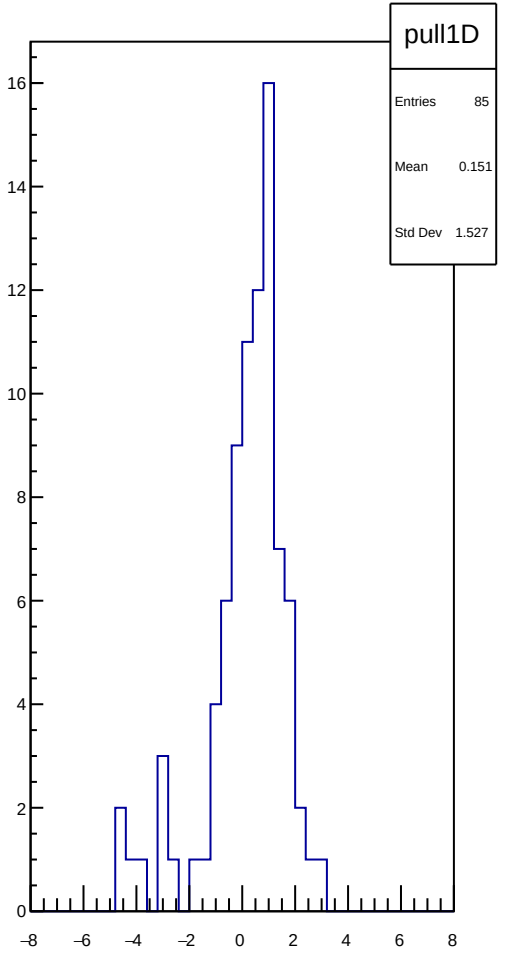

diff_bpm0i07Y_rms vs run
$\chi^2$ / ndf 1175 / 84
p0 1650 ± 1.288
1850
1800
1750
1700
1650
1600
1550

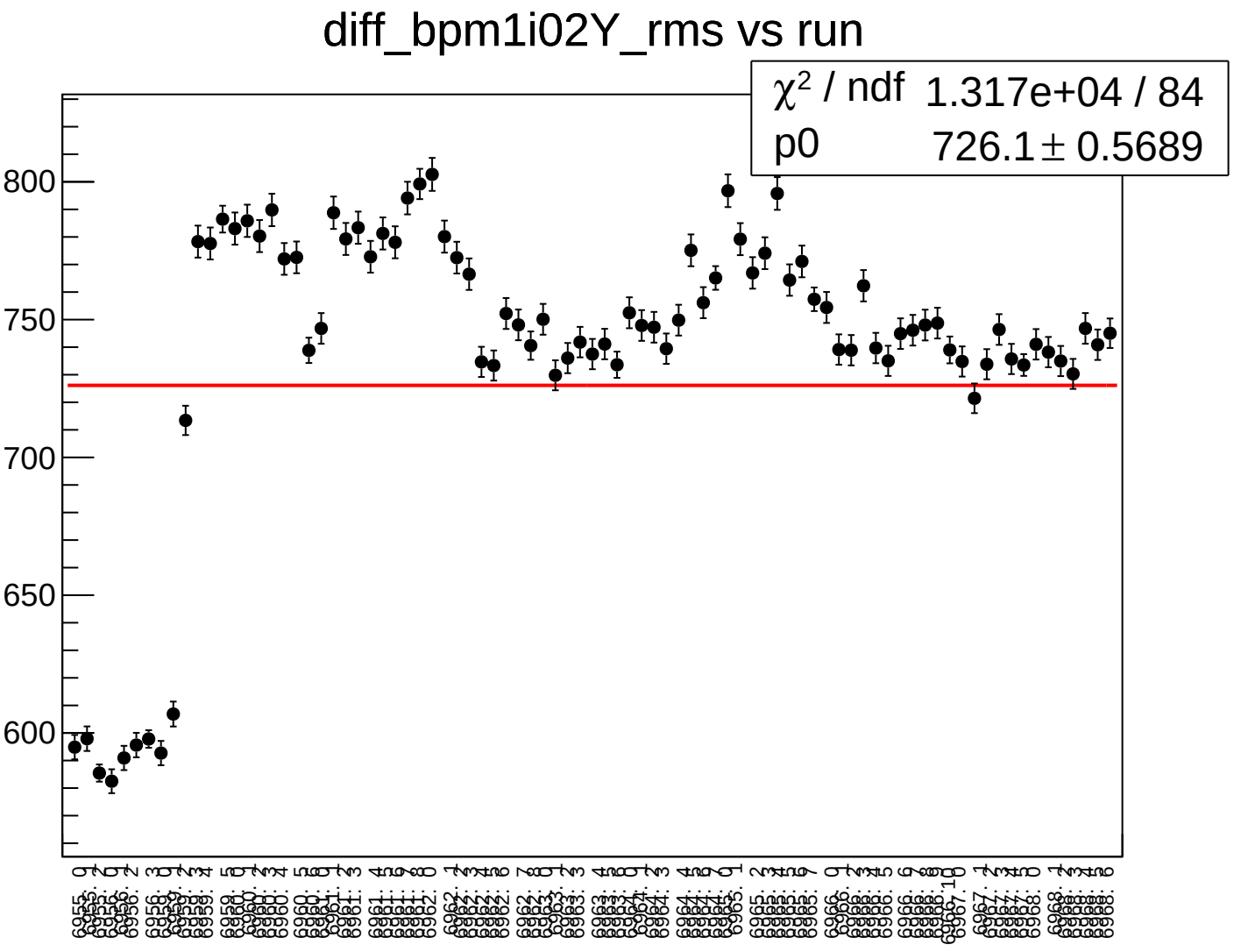

diff_bpm1i02X_mean vs run
χ² / ndf 187.8 / 84
p0 −41.42 ± 0.9208
pull
Entries 85
Mean 174.5
Std Dev 0

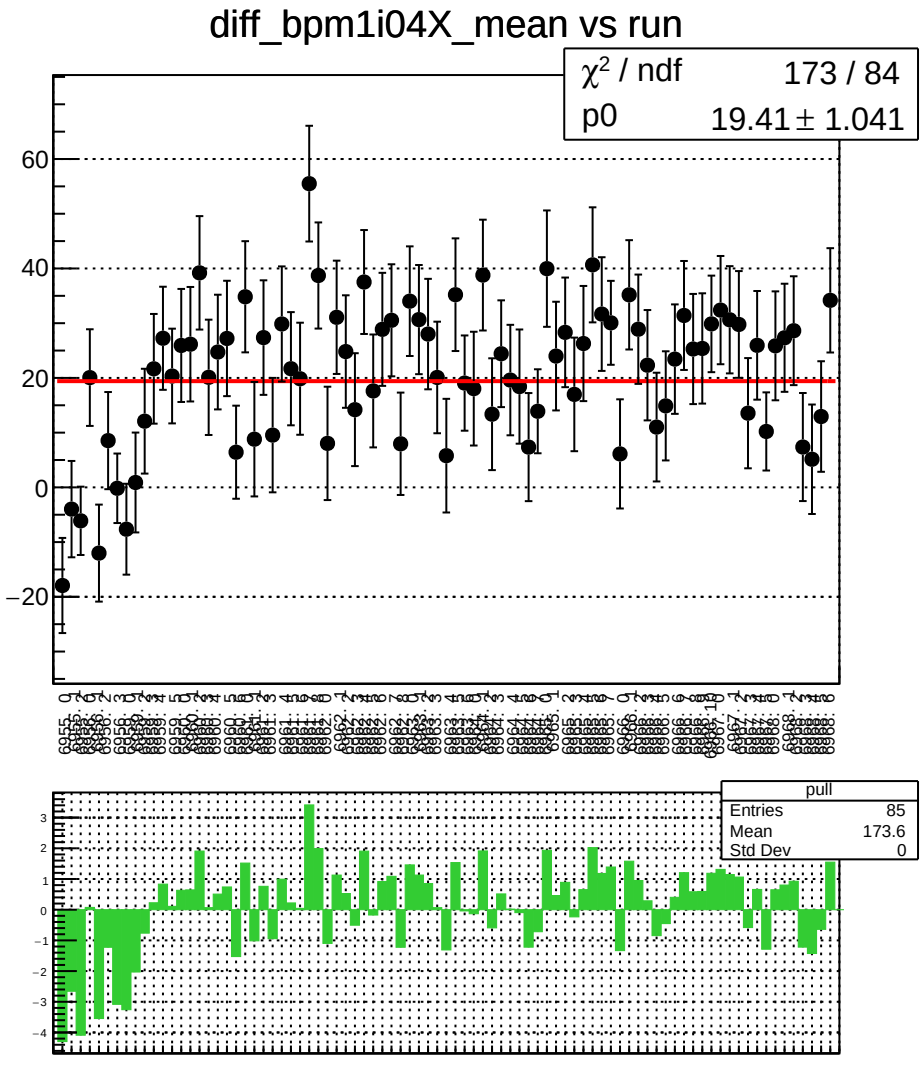

pull1D
Entries 85
Mean −0.09724
Std Dev 1.483

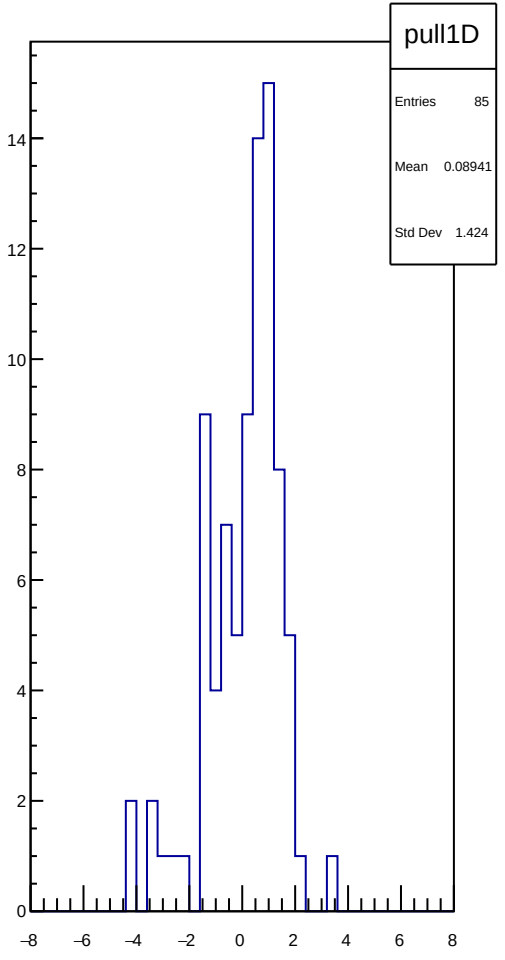

diff_bpm1i02X_rms vs run
χ² / ndf 7994 / 84
p0 832.5 ± 0.6511
900
850
800
750
700

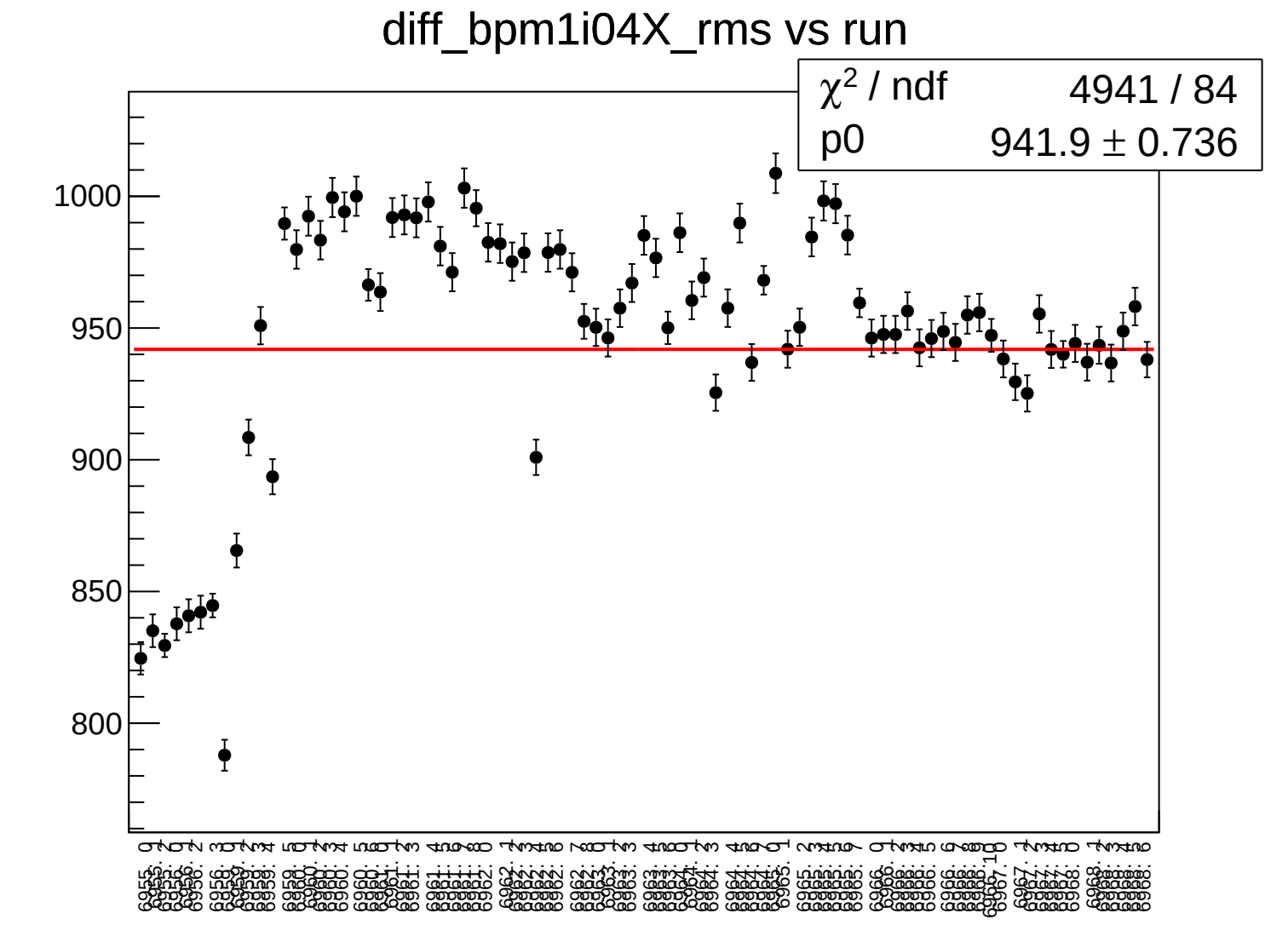

diff_bpm1i02Y_mean vs run
χ² / ndf 200.1 / 84
p0 −9.054 ± 0.8045
pull
Entries 85
Mean 146.7
Std Dev 0

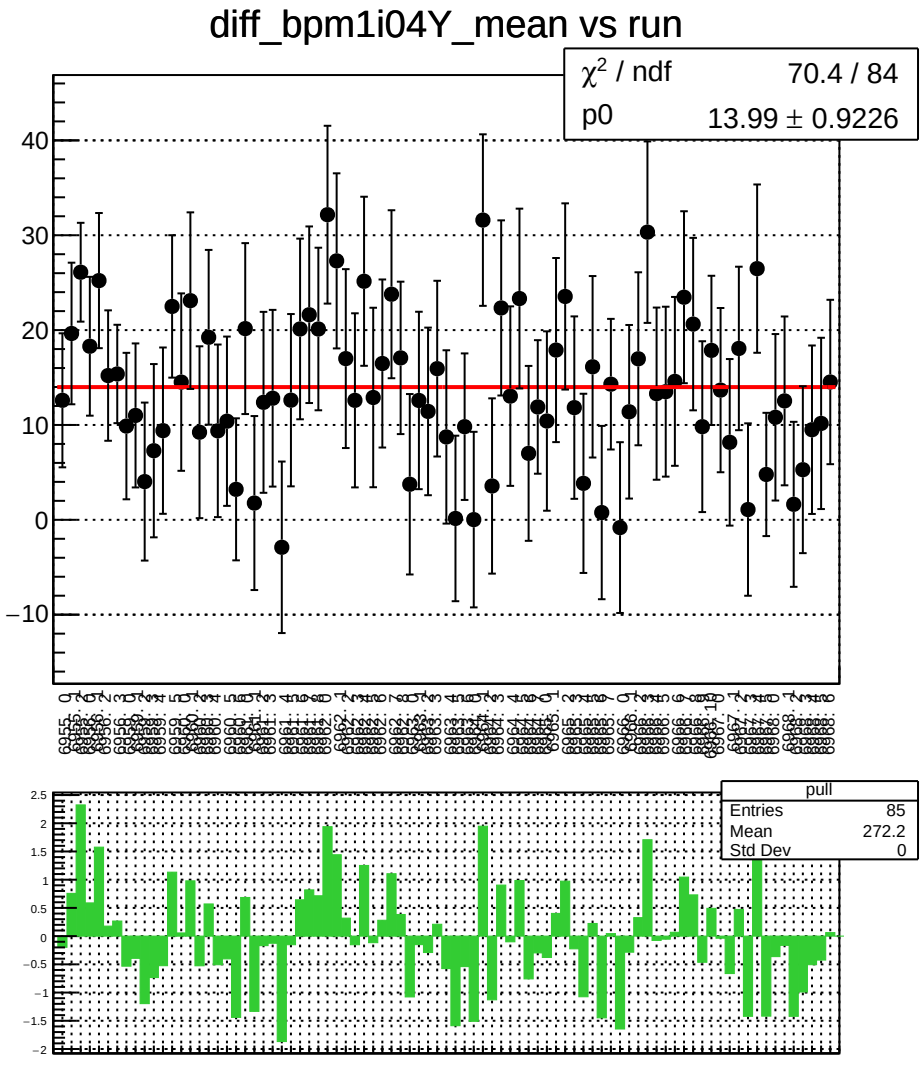

pull1D
Entries 85
Mean 0.151
Std Dev 1.527

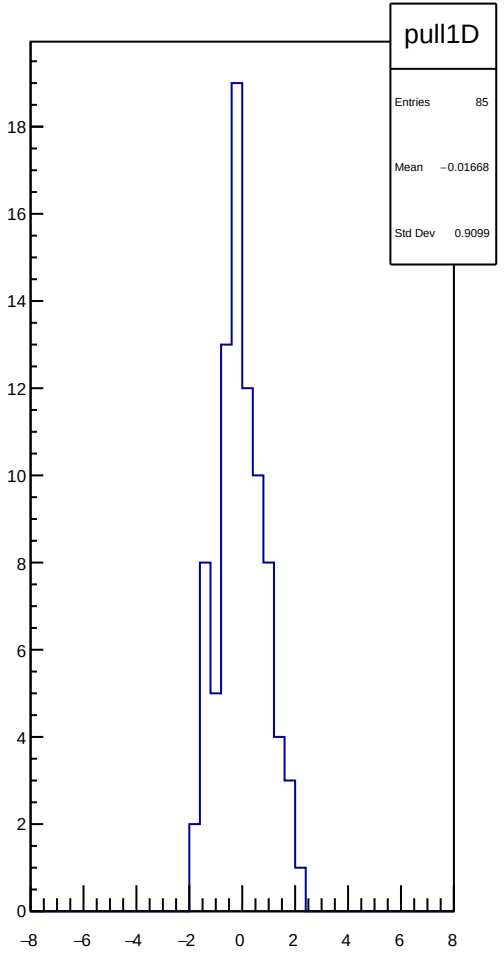

diff_bpm1i02Y_rms vs run
χ² / ndf 1.317e+04 / 84
p0 726.1 ± 0.5689
800
750
700
650
600

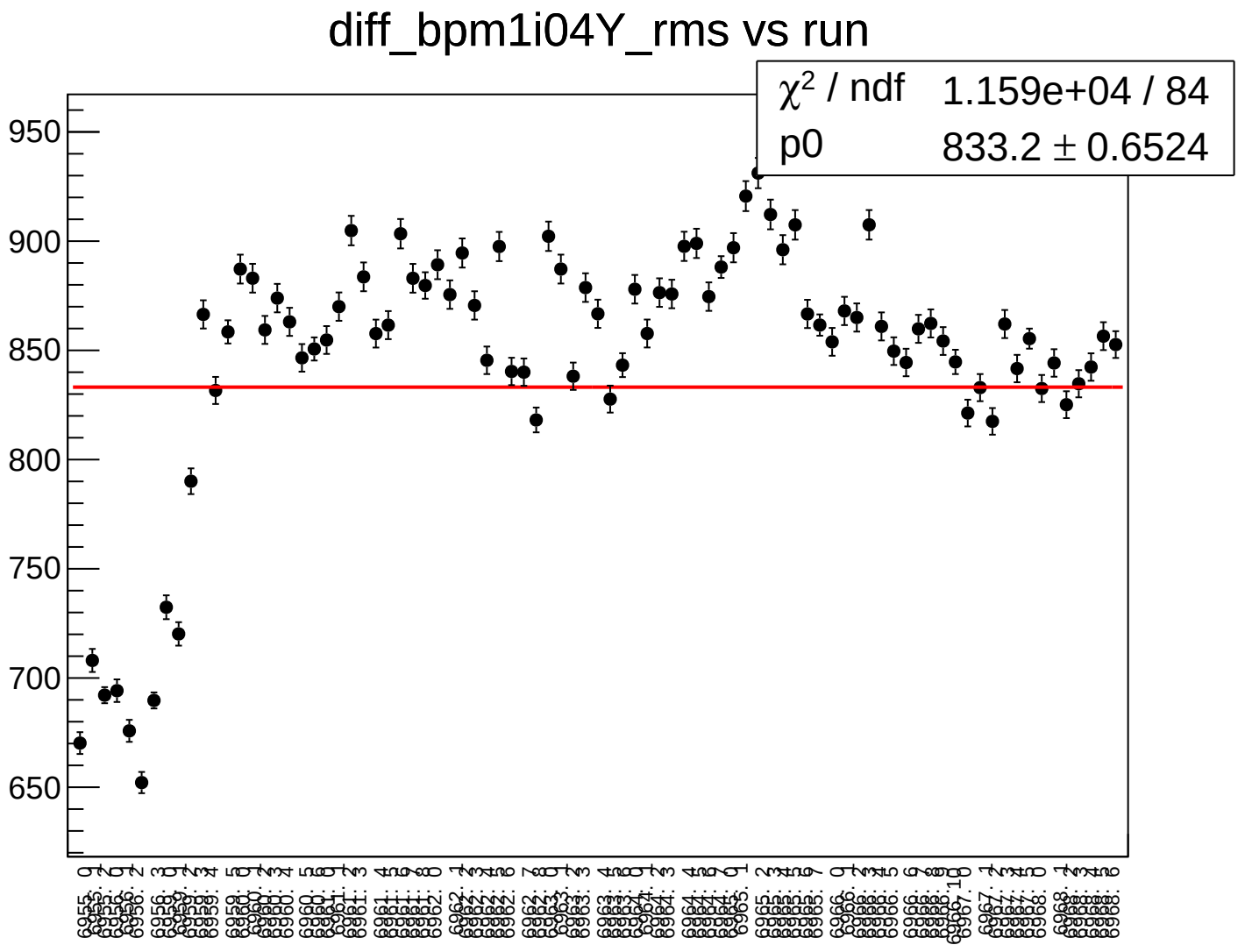

diff_bpm1i04X_mean vs run
χ² / ndf 173 / 84
p0 19.41 ± 1.041
pull
Entries 85
Mean 173.6
Std Dev 0

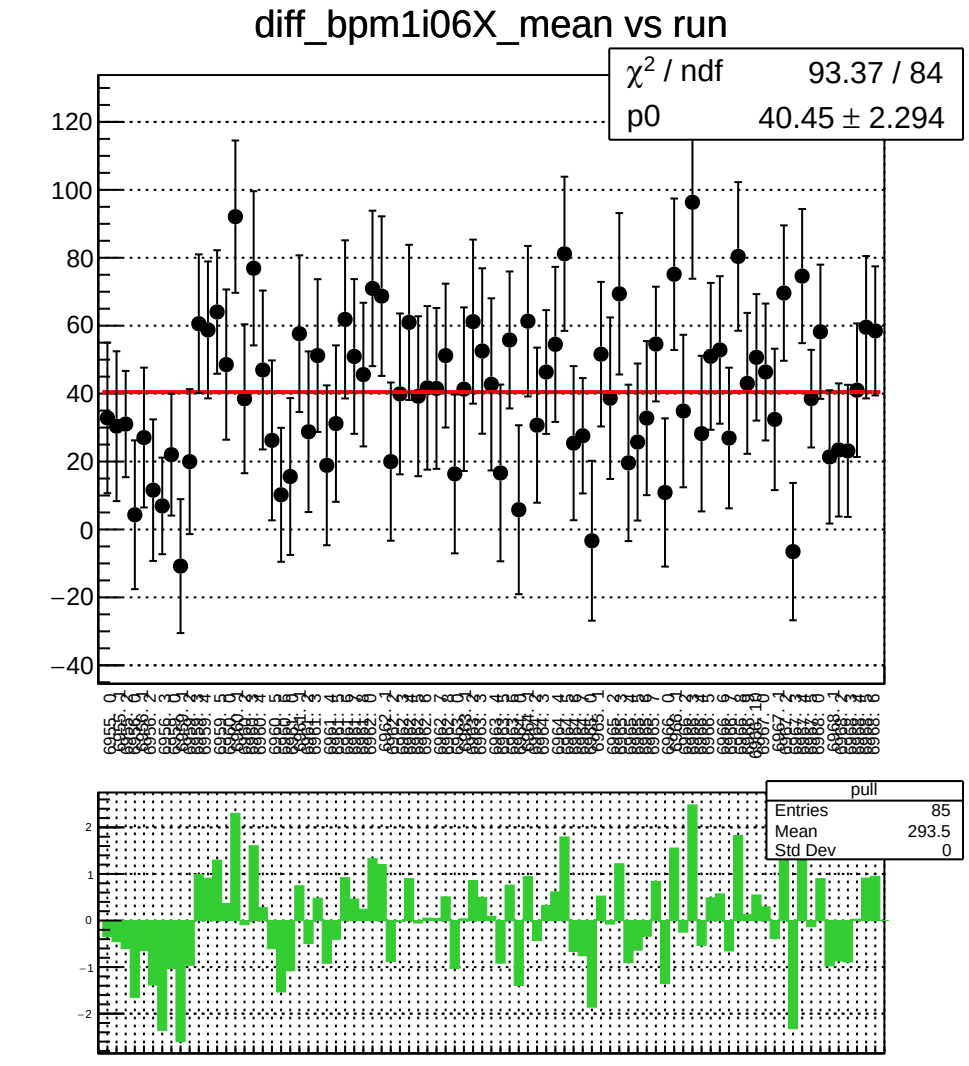

pull1D
Entries 85
Mean 0.08941
Std Dev 1.424

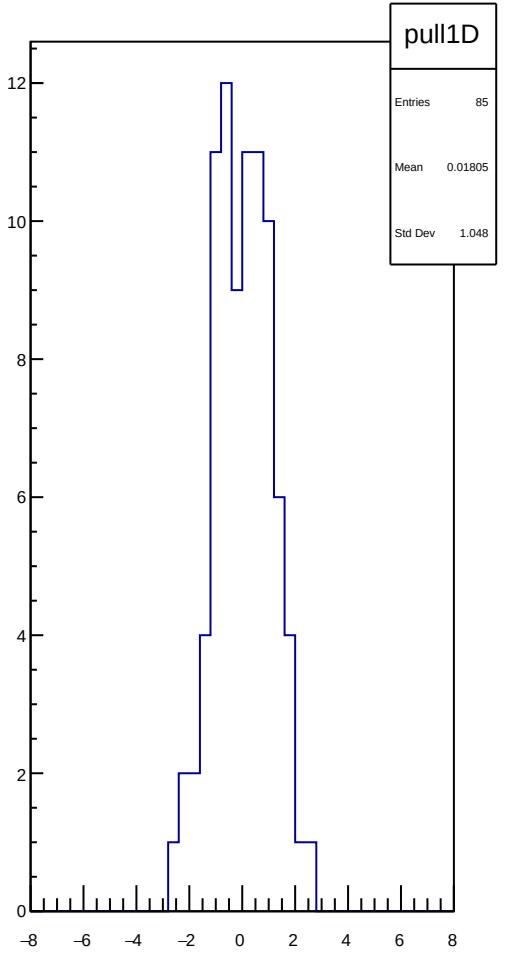

diff_bpm1i04X_rms vs run
χ² / ndf 4941 / 84
p0 941.9 ± 0.736
1000
950
900
850
800

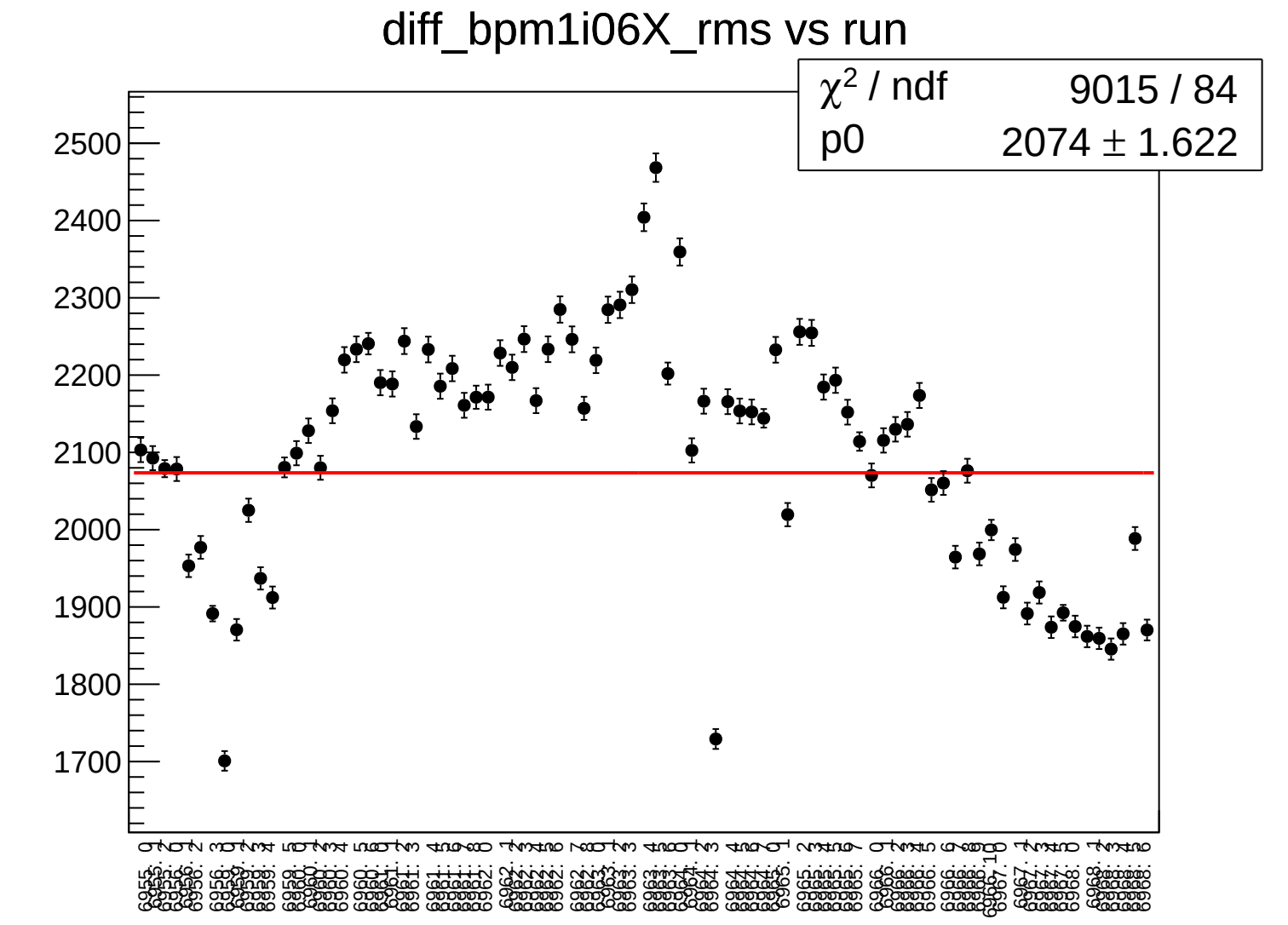

diff_bpm1i04Y_mean vs run
χ² / ndf 70.4 / 84
p0 13.99 ± 0.9226
pull
Entries 85
Mean 272.2
Std Dev 0

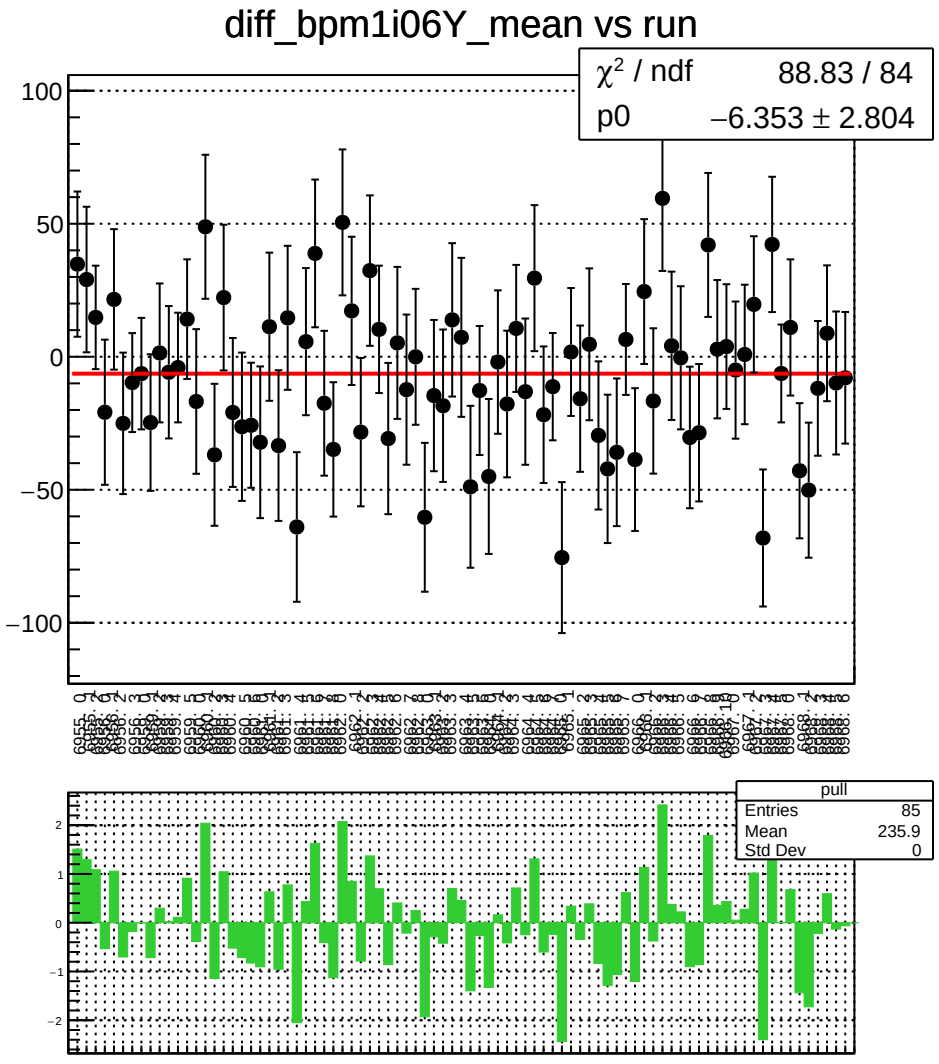

pull1D
Entries 85
Mean −0.01668
Std Dev 0.9099

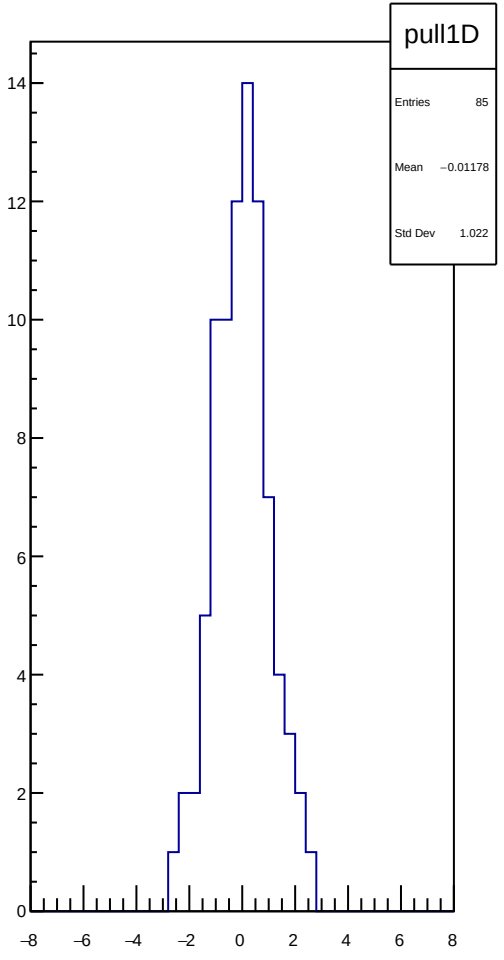

diff_bpm1i04Y_rms vs run
χ² / ndf 1.159e+04 / 84
p0 833.2 ± 0.6524
950
900
850
800
750
700
650

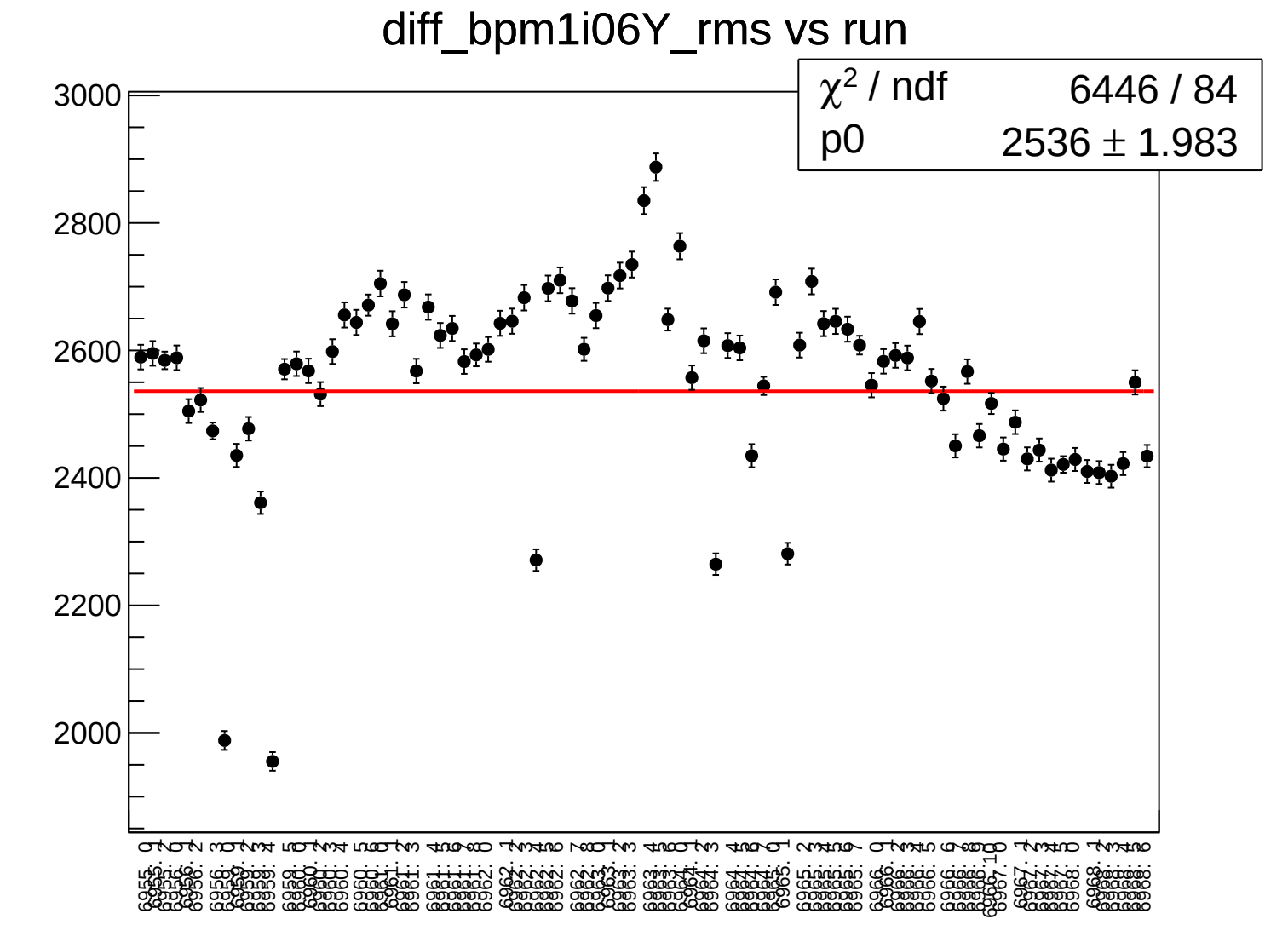

diff_bpm1i06X_mean vs run
χ² / ndf 93.37 / 84
p0 40.45 ± 2.294
pull
Entries 85
Mean 293.5
Std Dev 0

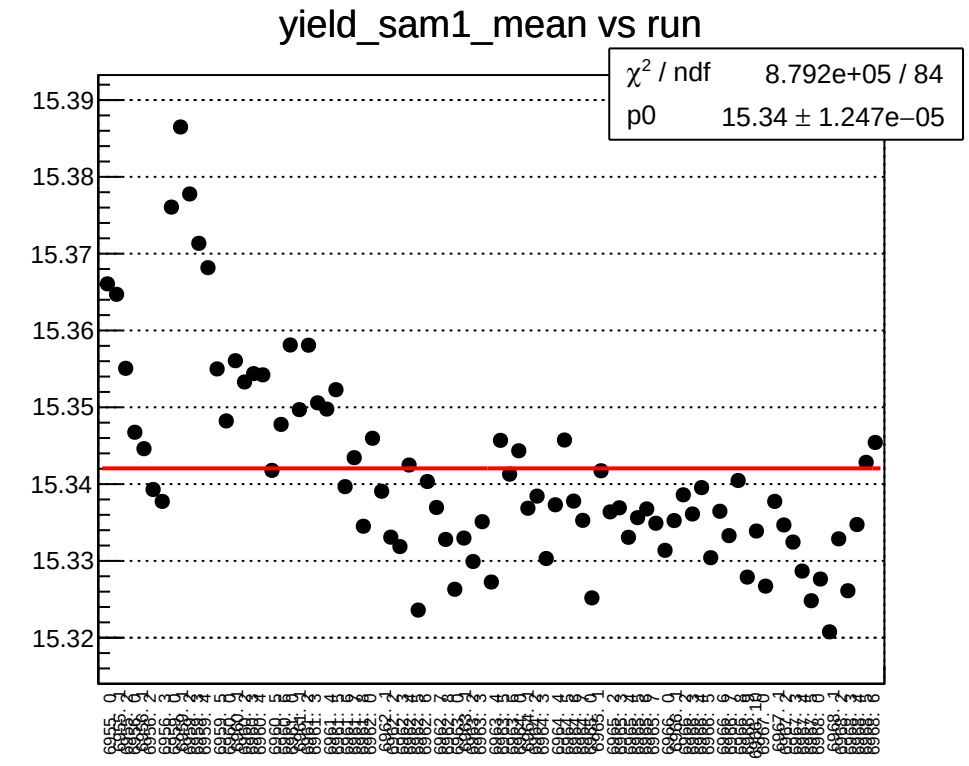

pull1D
Entries 85
Mean 0.01805
Std Dev 1.048

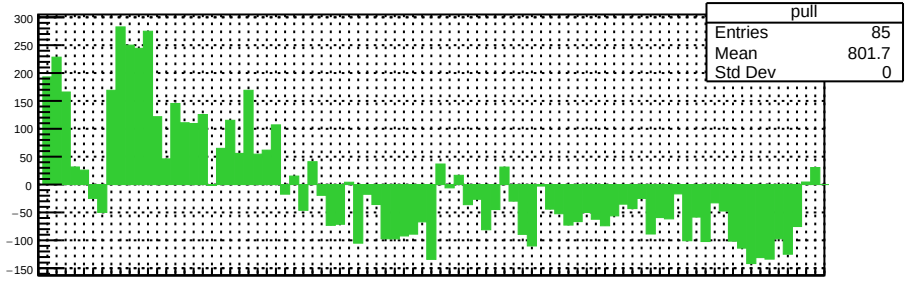

diff_bpm1i06X_rms vs run
χ² / ndf 9015 / 84
p0 2074 ± 1.622
2500
2400
2300
2200
2100
2000
1900
1800
1700

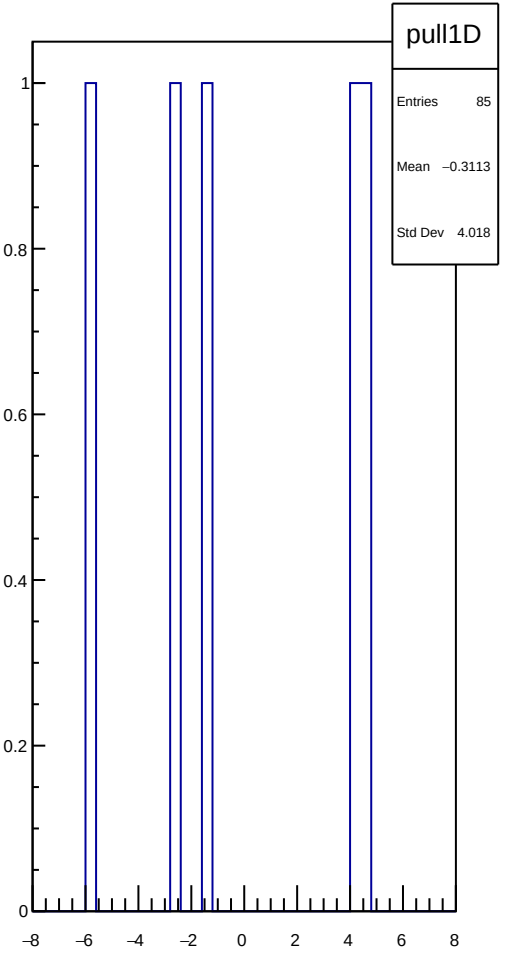

diff_bpm1i06Y_mean vs run
χ² / ndf 88.83 / 84
p0 −6.353 ± 2.804
100
50
0
−50
−100
pull
Entries 85
Mean 235.9
Std Dev 0
2
1
0
−1
−2

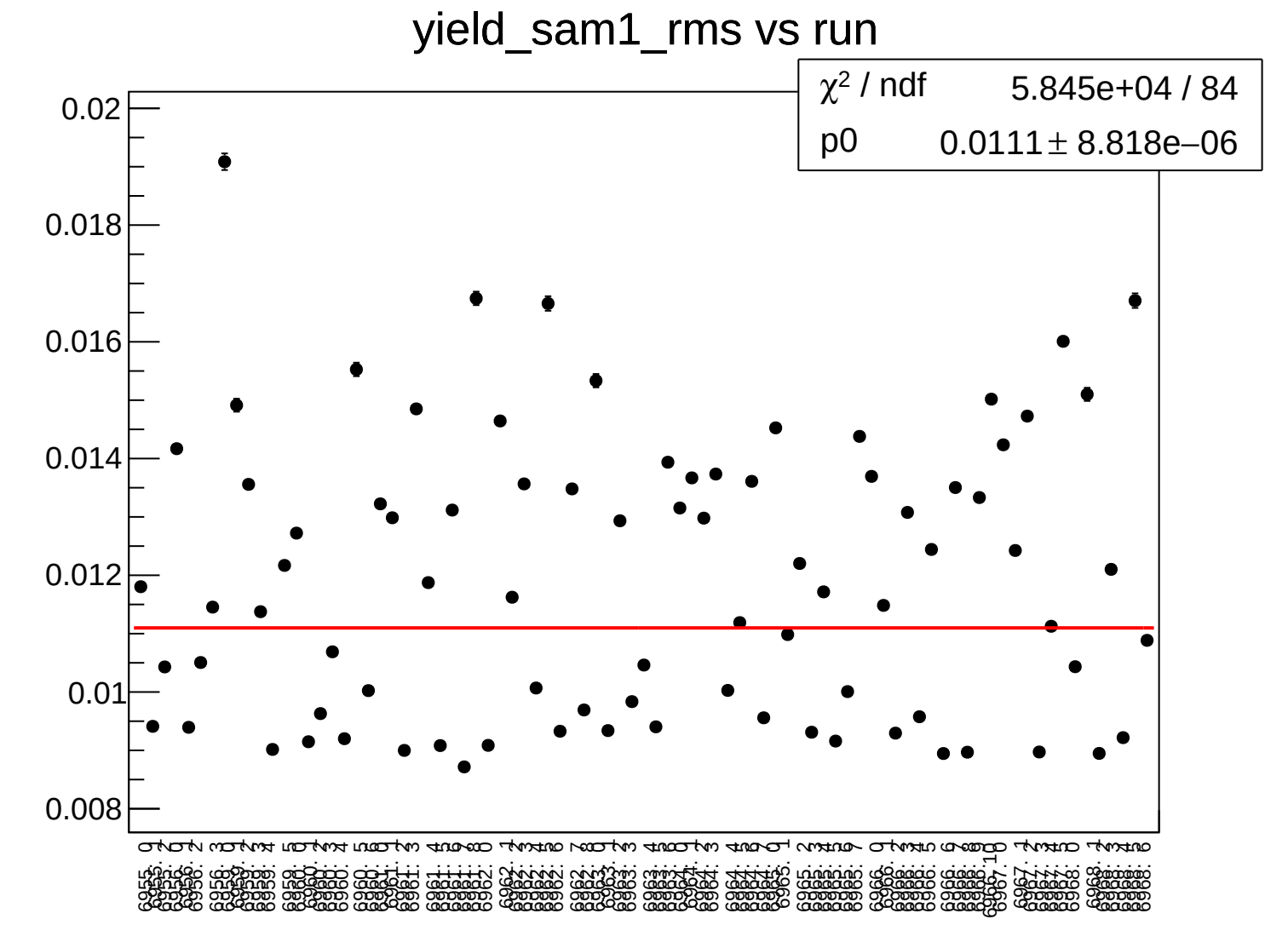

pull1D
Entries 85
Mean −0.01178
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

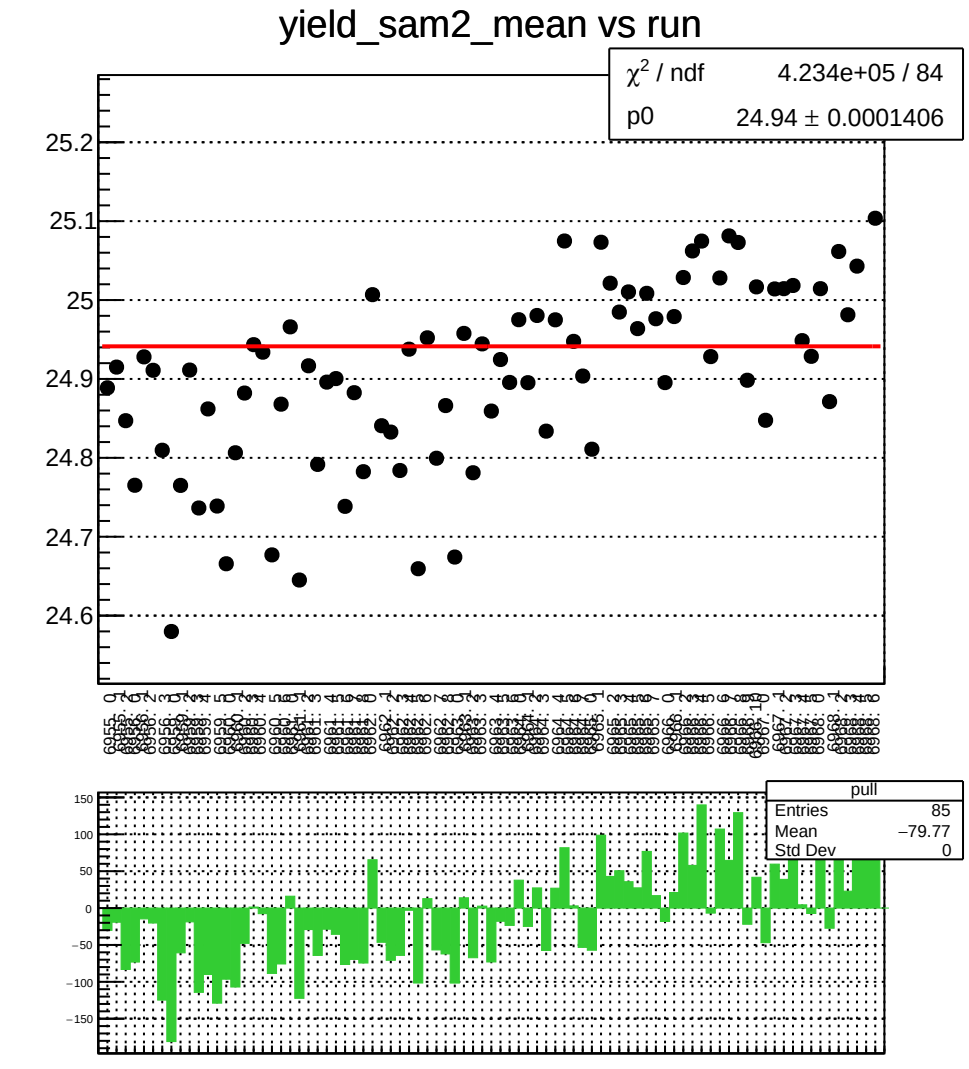

diff_bpm1i06Y_rms vs run
χ² / ndf 6446 / 84
p0 2536 ± 1.983
3000
2800
2600
2400
2200
2000

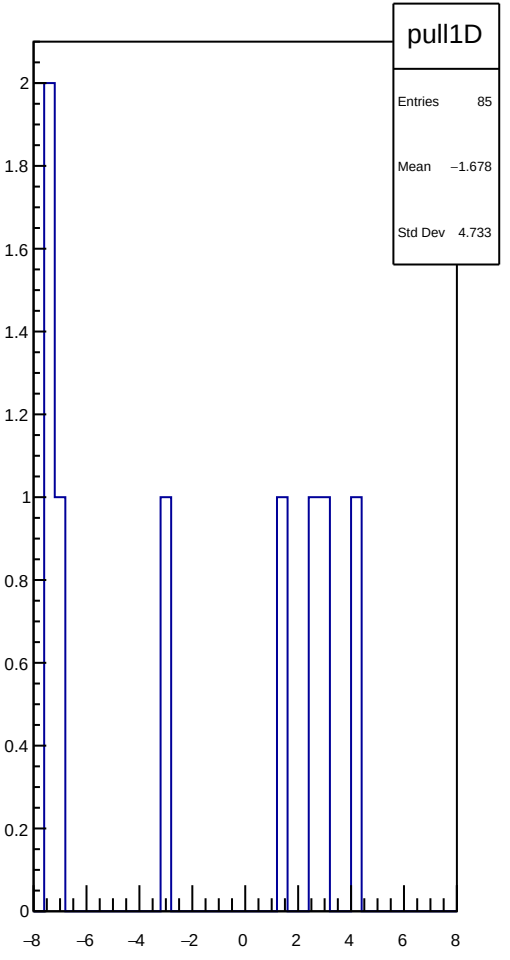

yield_sam1_mean vs run
χ² / ndf 8.792e+05 / 84
p0 15.34 ± 1.247e−05
15.39
15.38
15.37
15.36
15.35
15.34
15.33
15.32

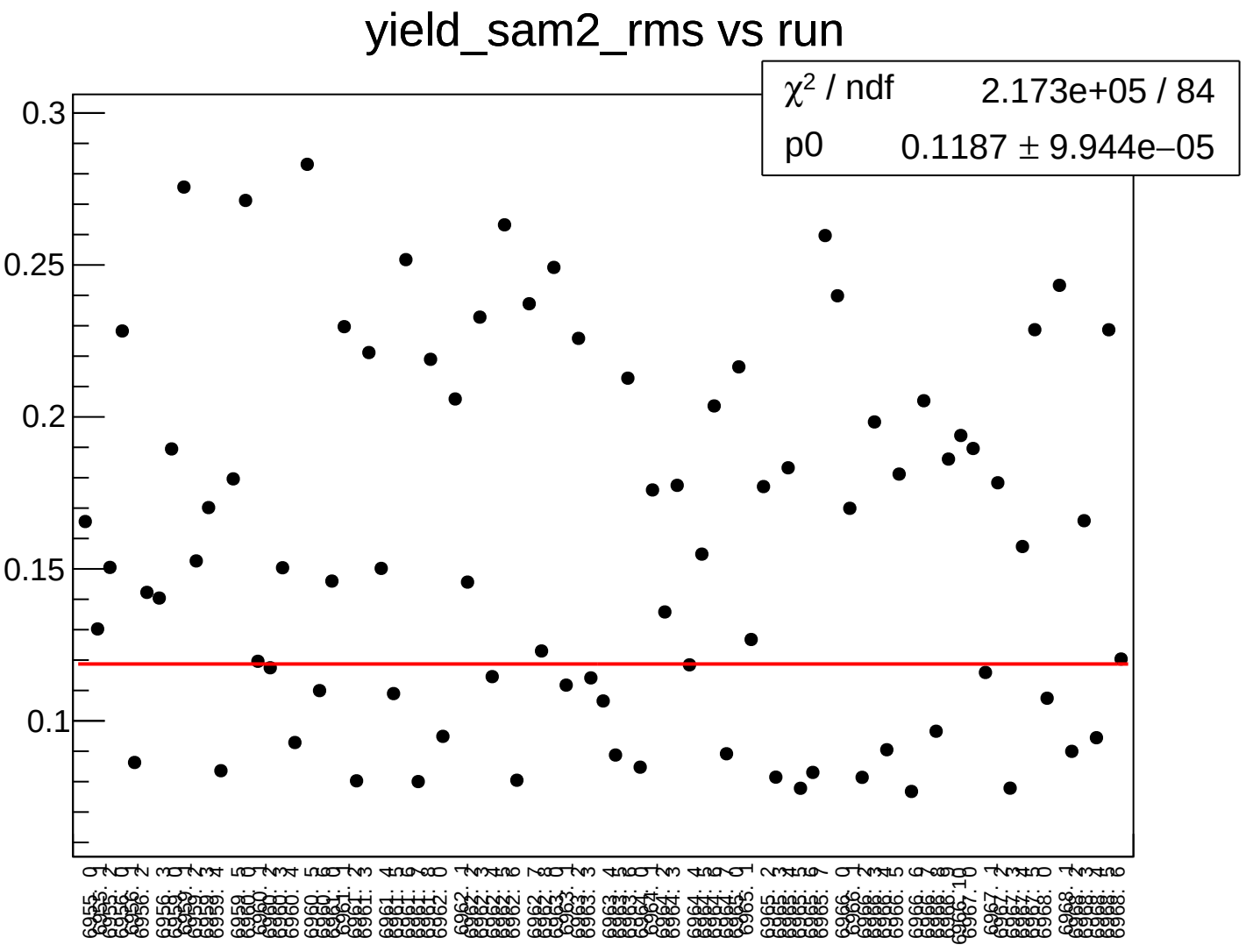

pull
Entries 85
Mean 801.7
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

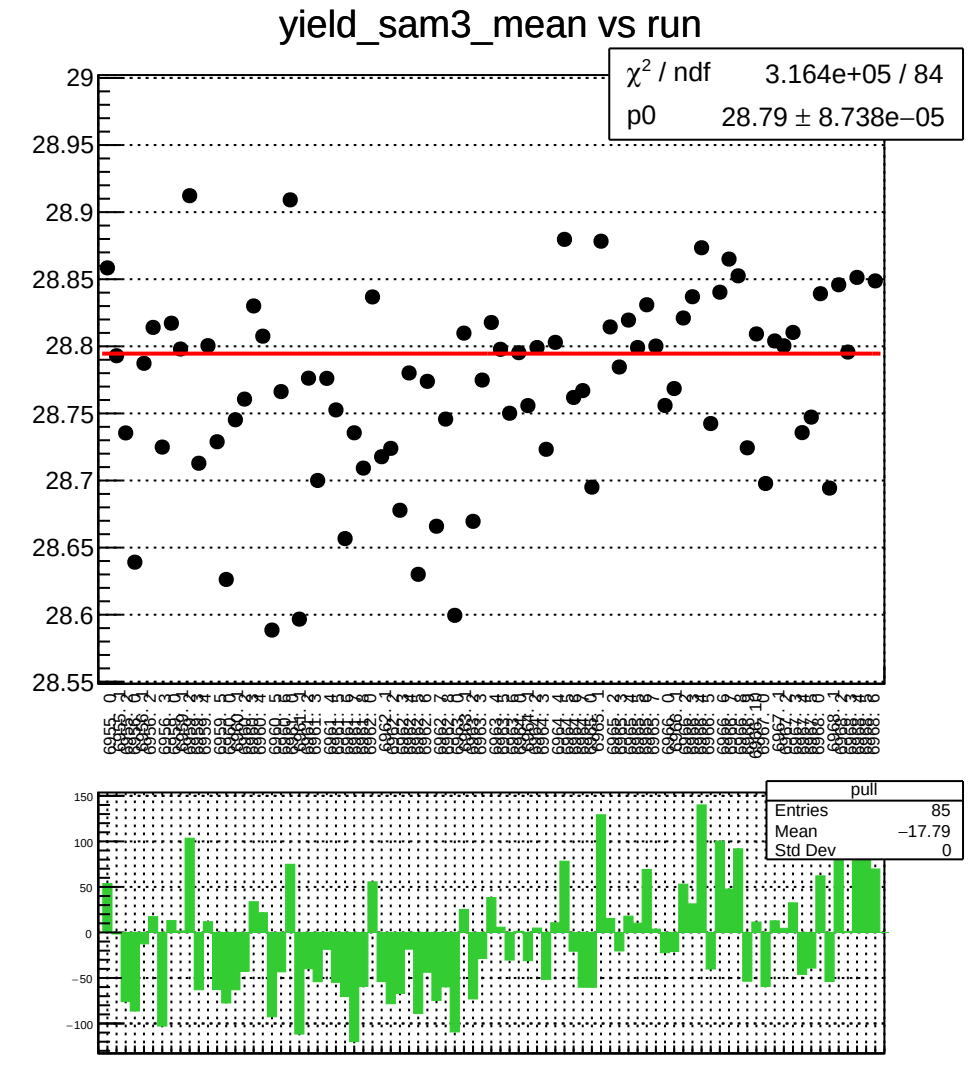

pull1D
Entries 85
Mean −0.3113
Std Dev 4.018
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

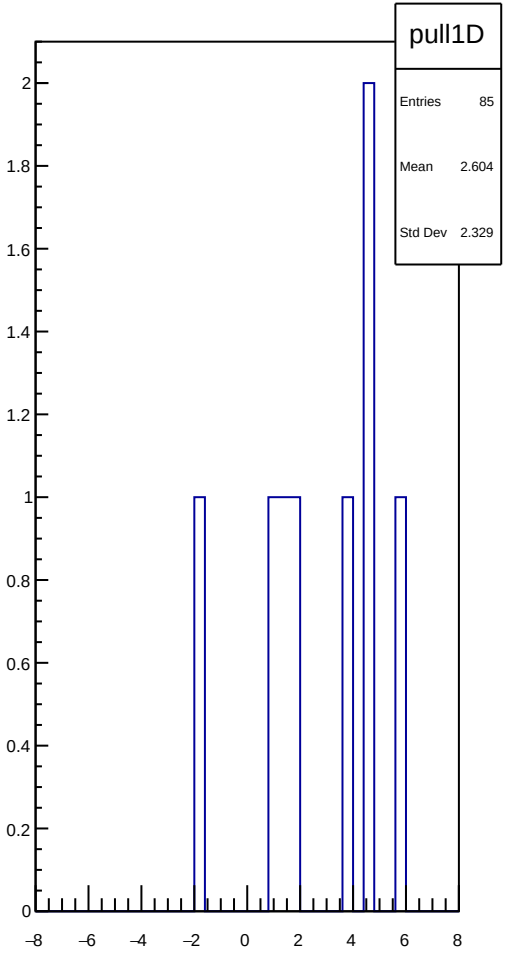

yield_sam1_rms vs run
χ² / ndf 5.845e+04 / 84
p0 0.0111 ± 8.818e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

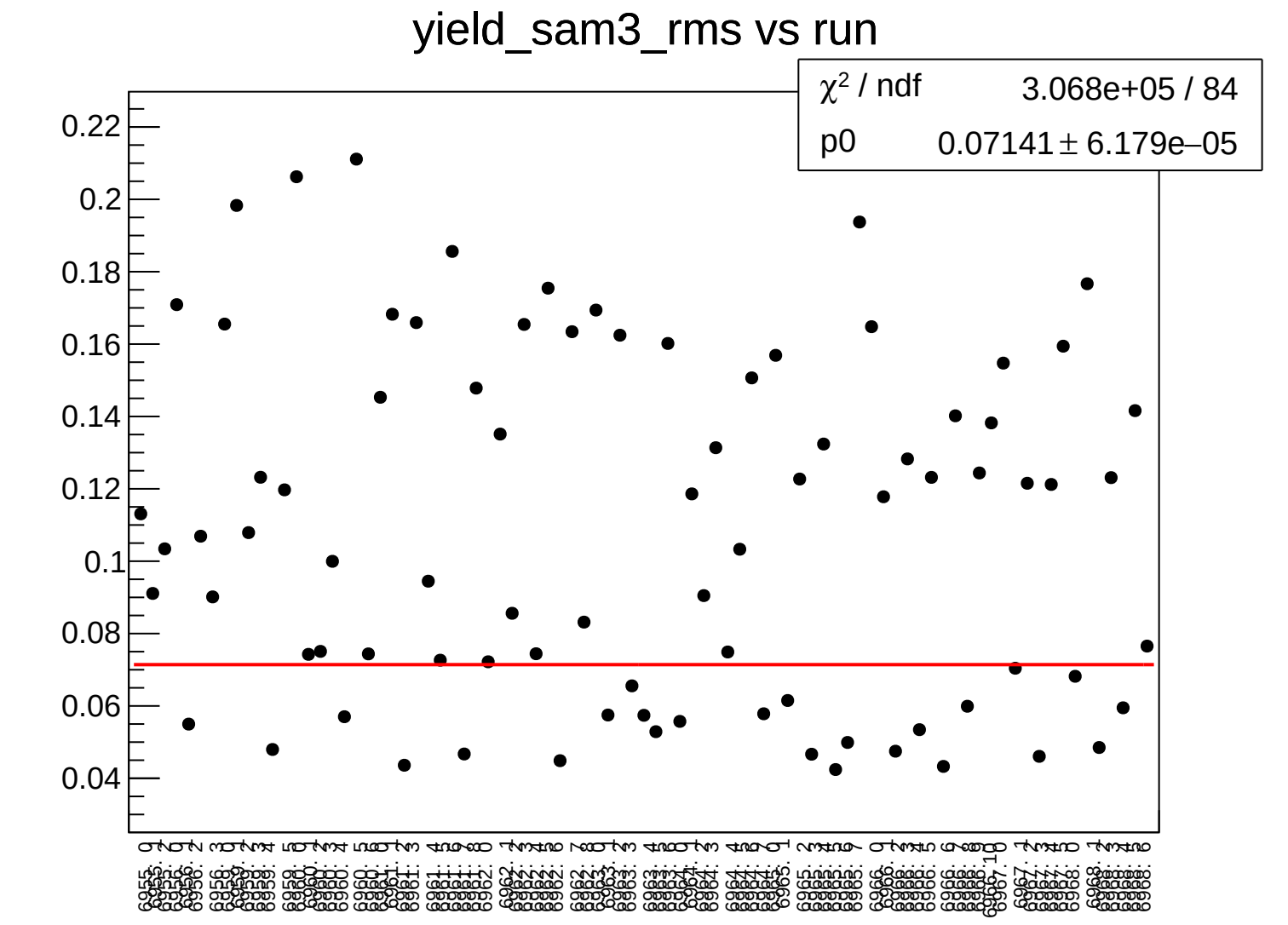

yield_sam2_mean vs run
χ² / ndf 4.234e+05 / 84
p0 24.94 ± 0.0001406
25.2
25.1
25
24.9
24.8
24.7
24.6
pull
Entries 85
Mean −79.77
Std Dev 0
150
100
50
0
−50
−100
−150

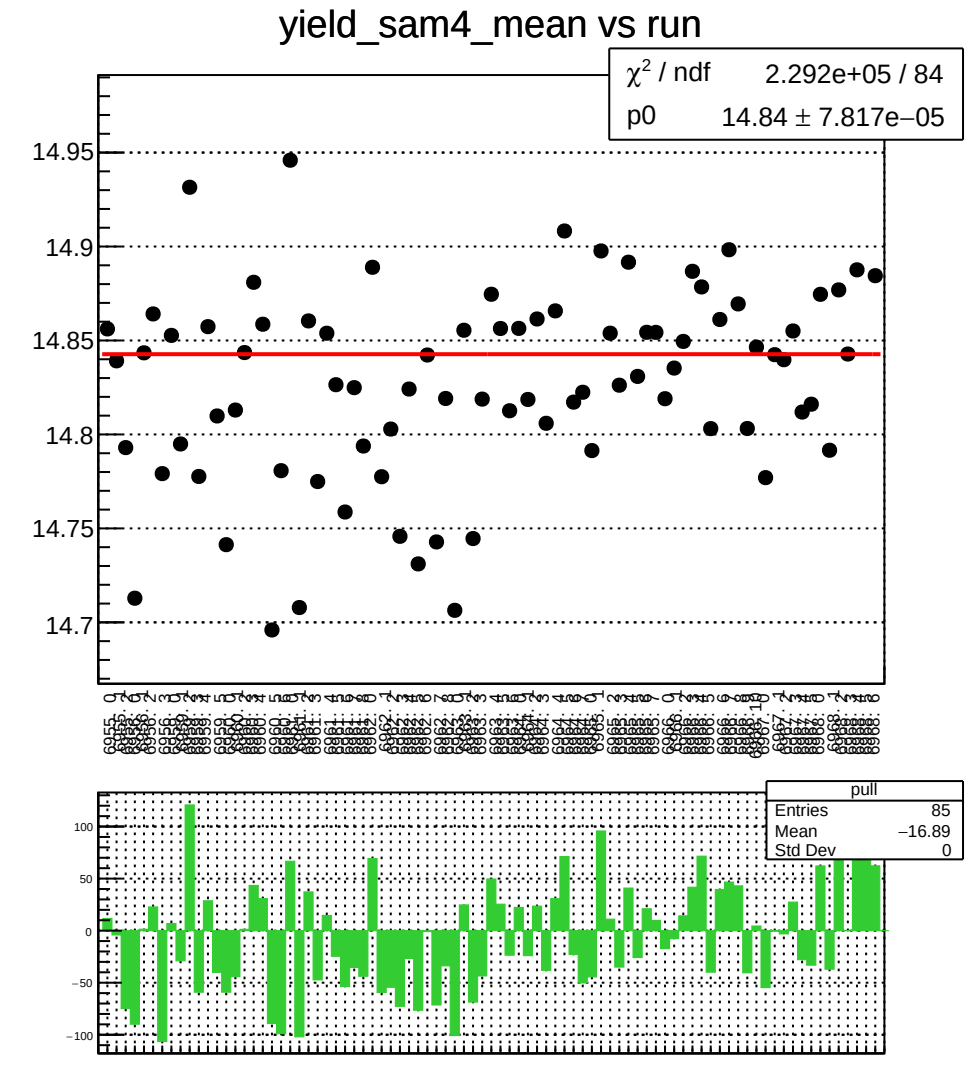

pull1D
Entries 85
Mean −1.678
Std Dev 4.733
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

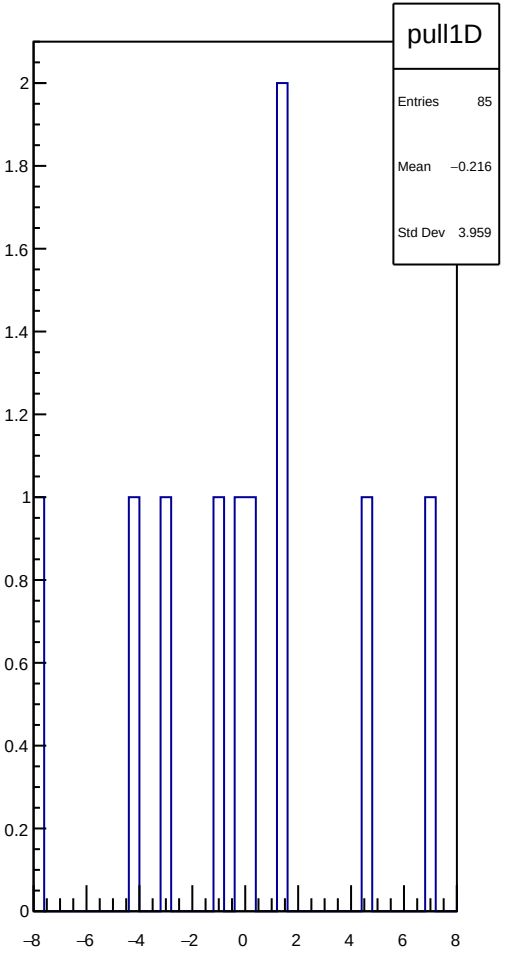

yield_sam2_rms vs run
χ² / ndf 2.173e+05 / 84
p0 0.1187 ± 9.944e−05
0.3
0.25
0.2
0.15
0.1

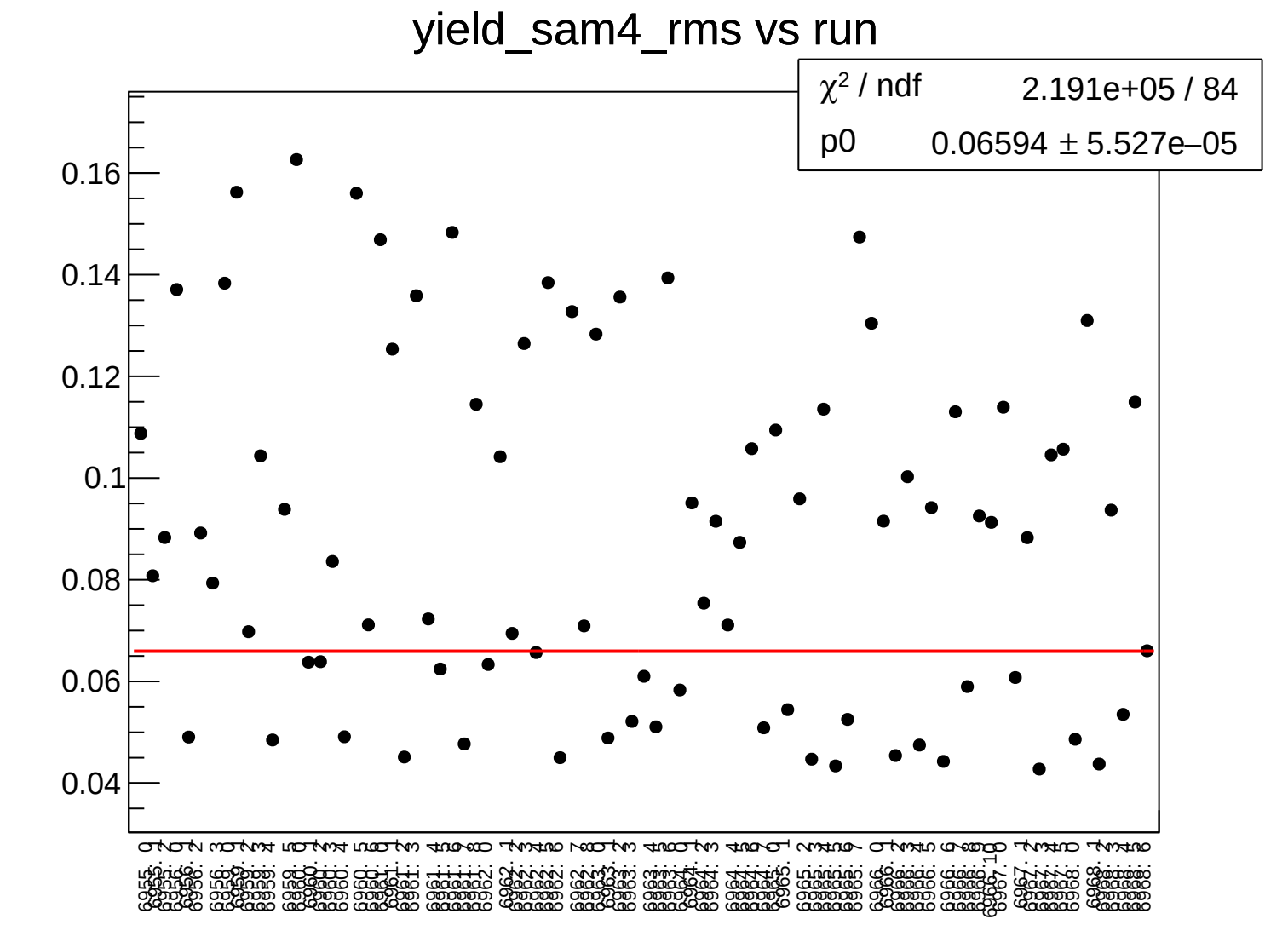

yield_sam3_mean vs run
χ² / ndf 3.164e+05 / 84
p0 28.79 ± 8.738e−05
29
28.95
28.9
28.85
28.8
28.75
28.7
28.65
28.6
28.55
pull
Entries 85
Mean −17.79
Std Dev 0
150
100
50
0
−50
−100

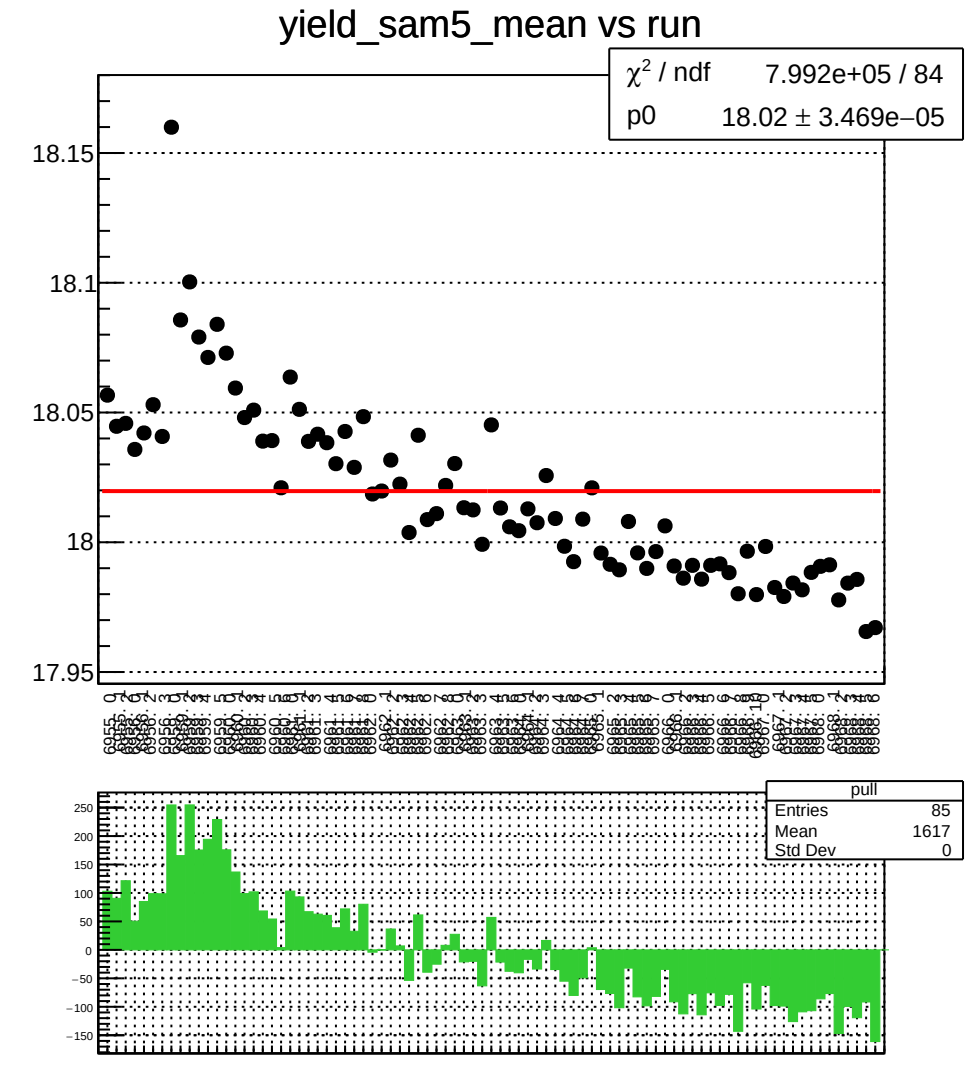

pull1D
Entries 85
Mean 2.604
Std Dev 2.329
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

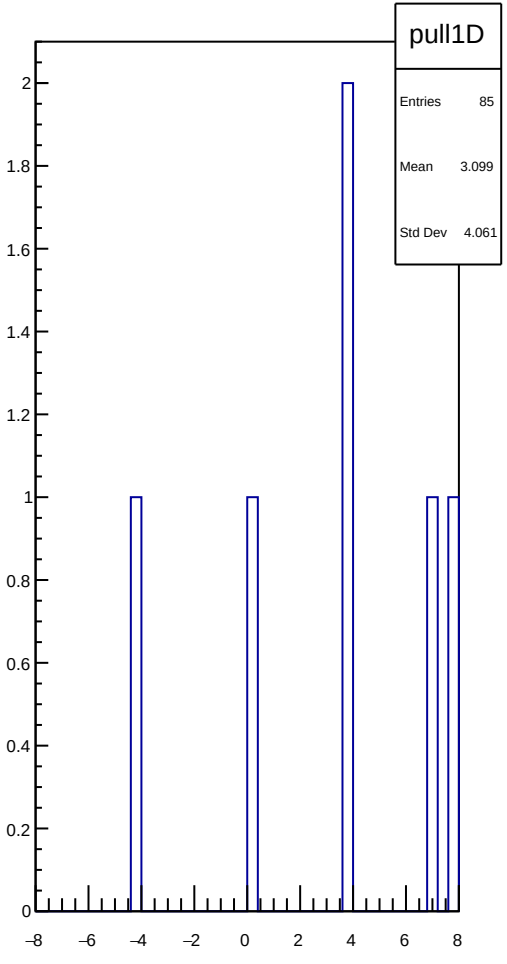

yield_sam3_rms vs run
χ² / ndf 3.068e+05 / 84
p0 0.07141 ± 6.179e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

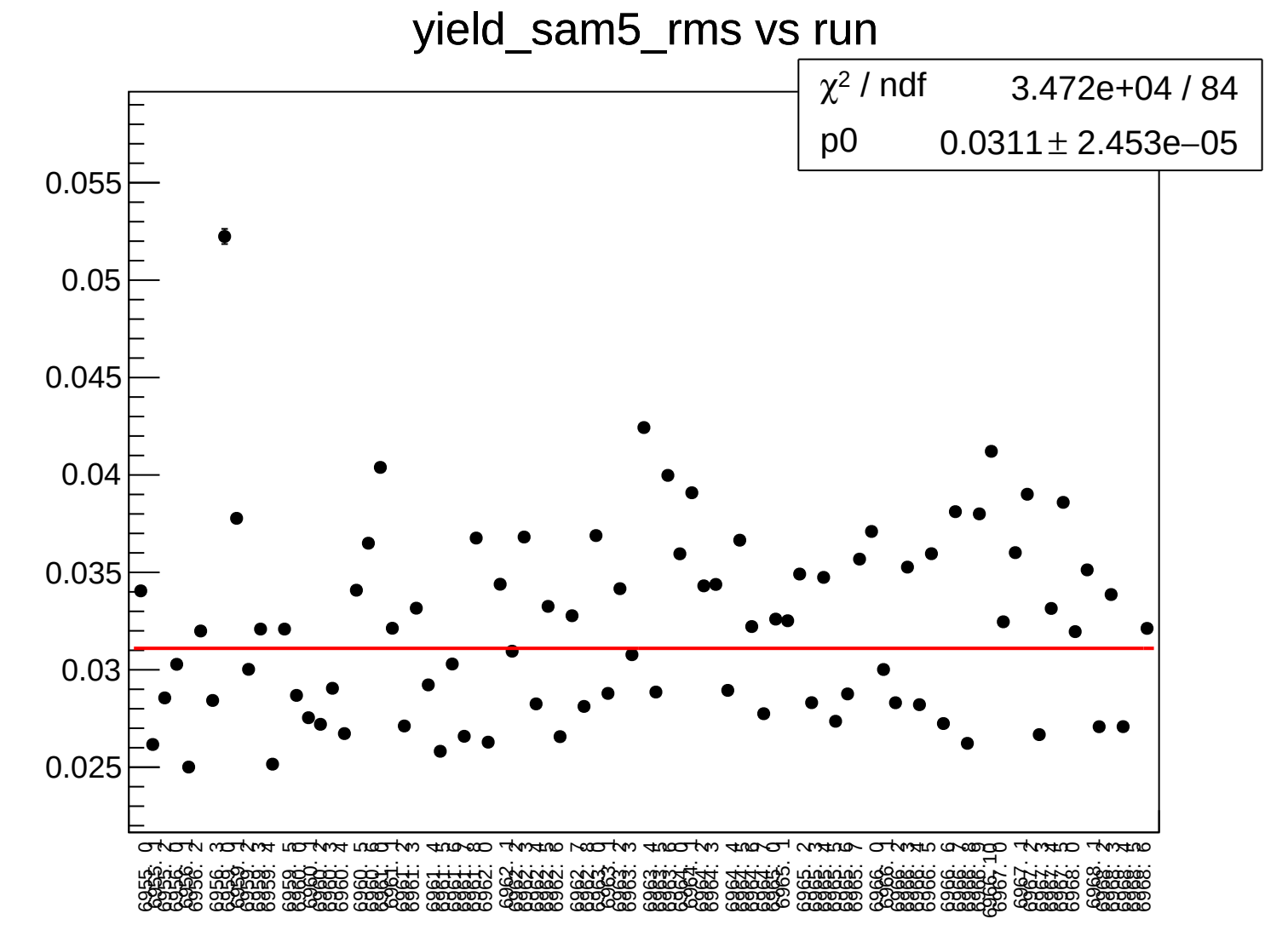

yield_sam4_mean vs run
χ² / ndf 2.292e+05 / 84
p0 14.84 ± 7.817e−05
14.95
14.9
14.85
14.8
14.75
14.7
pull
Entries 85
Mean −16.89
Std Dev 0
100
50
0
−50
−100

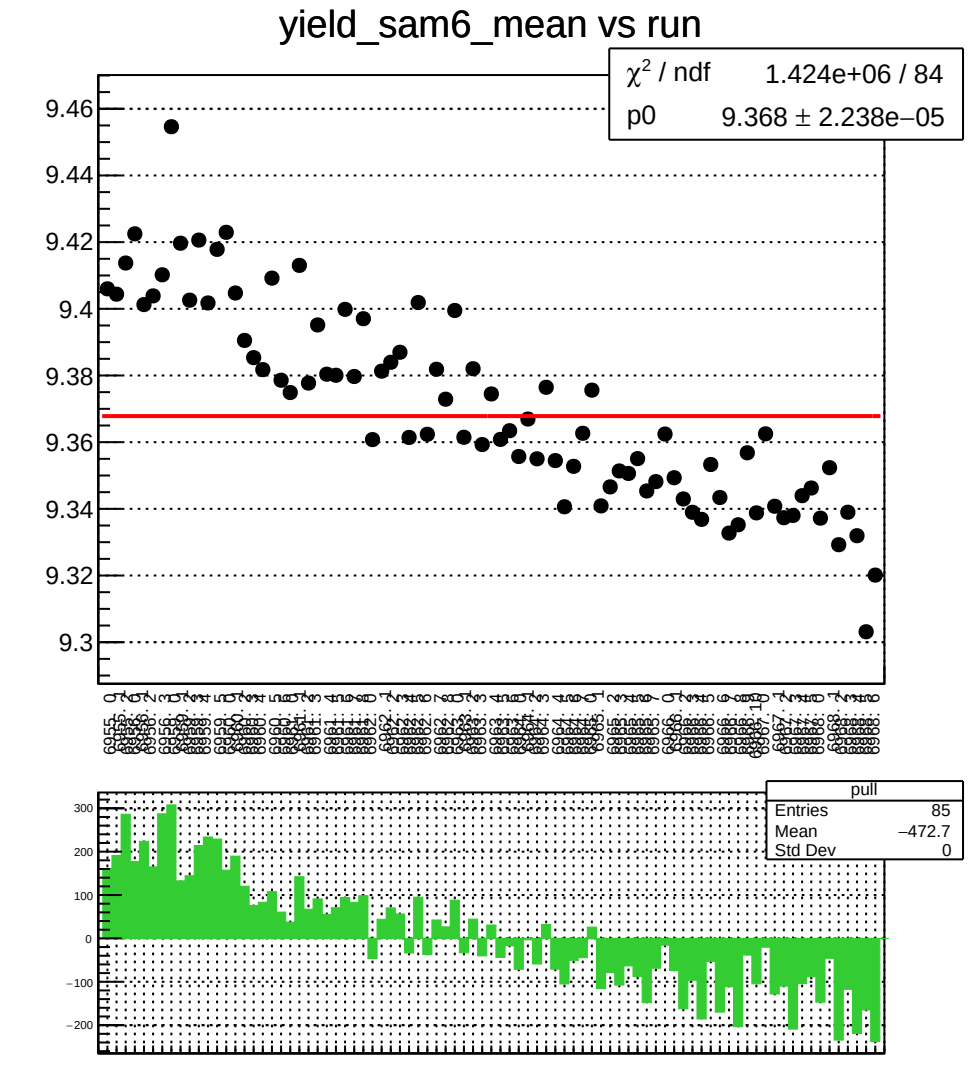

pull1D
Entries 85
Mean −0.216
Std Dev 3.959
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

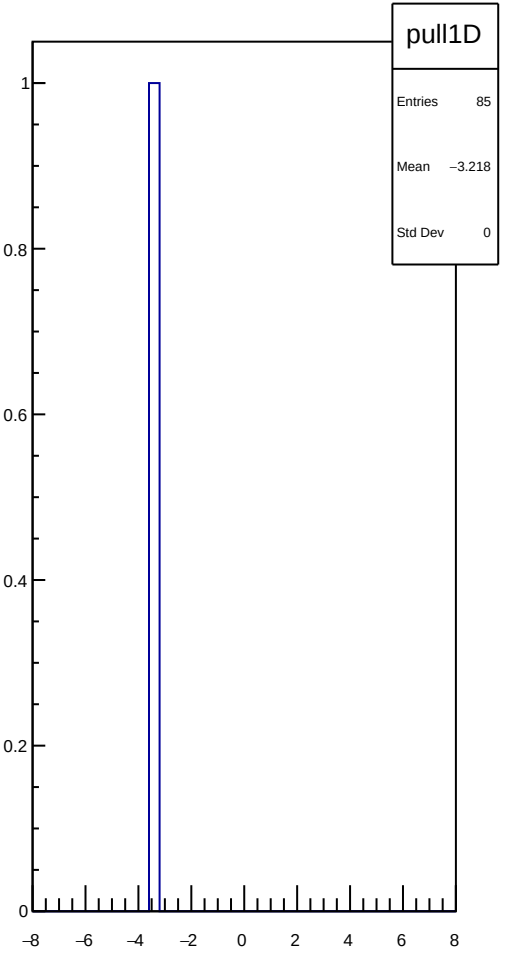

yield_sam4_rms vs run
χ² / ndf 2.191e+05 / 84
p0 0.06594 ± 5.527e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

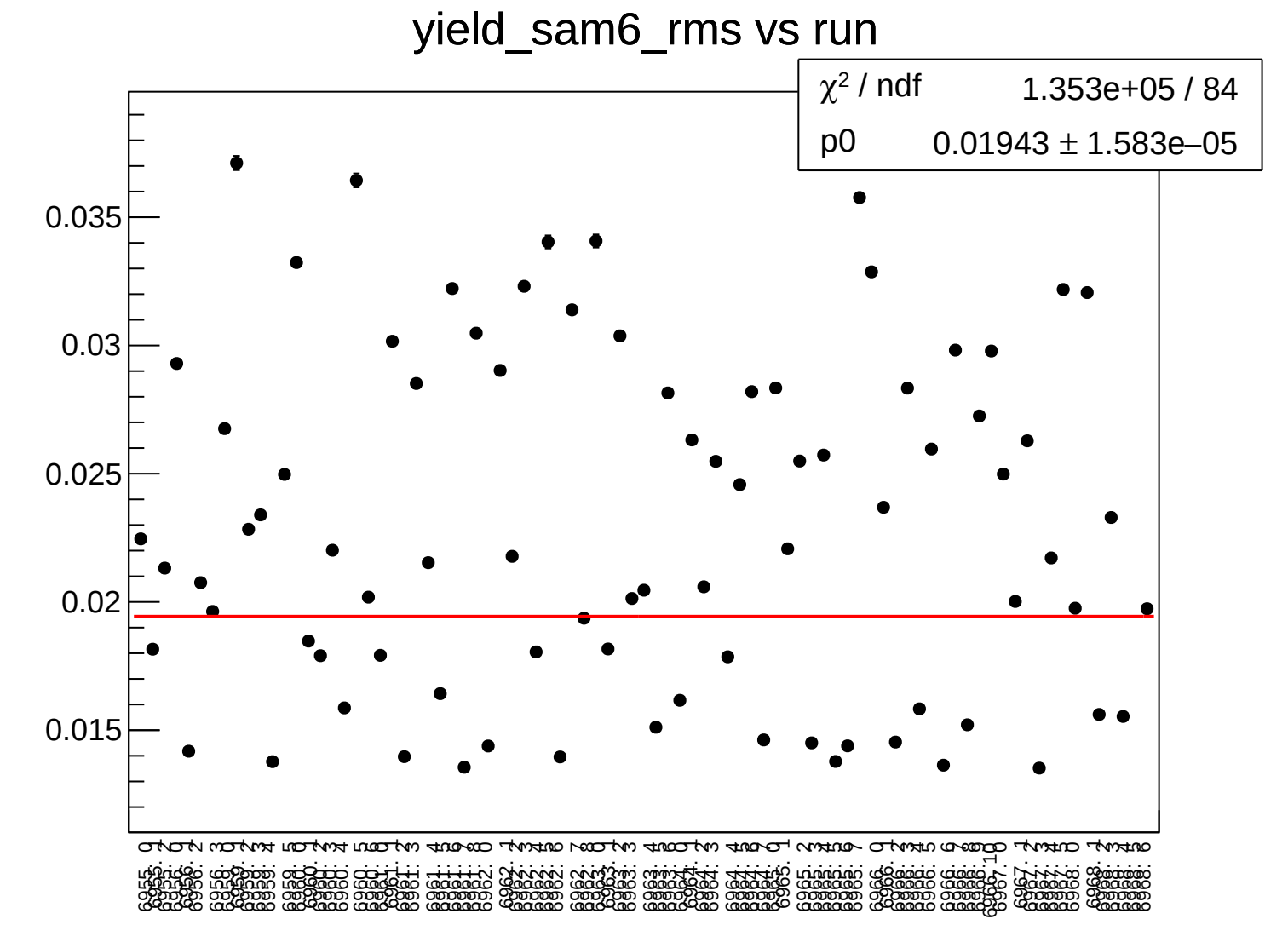

yield_sam5_mean vs run
χ² / ndf 7.992e+05 / 84
p0 18.02 ± 3.469e−05
18.15
18.1
18.05
18
17.95
pull
Entries 85
Mean 1617
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

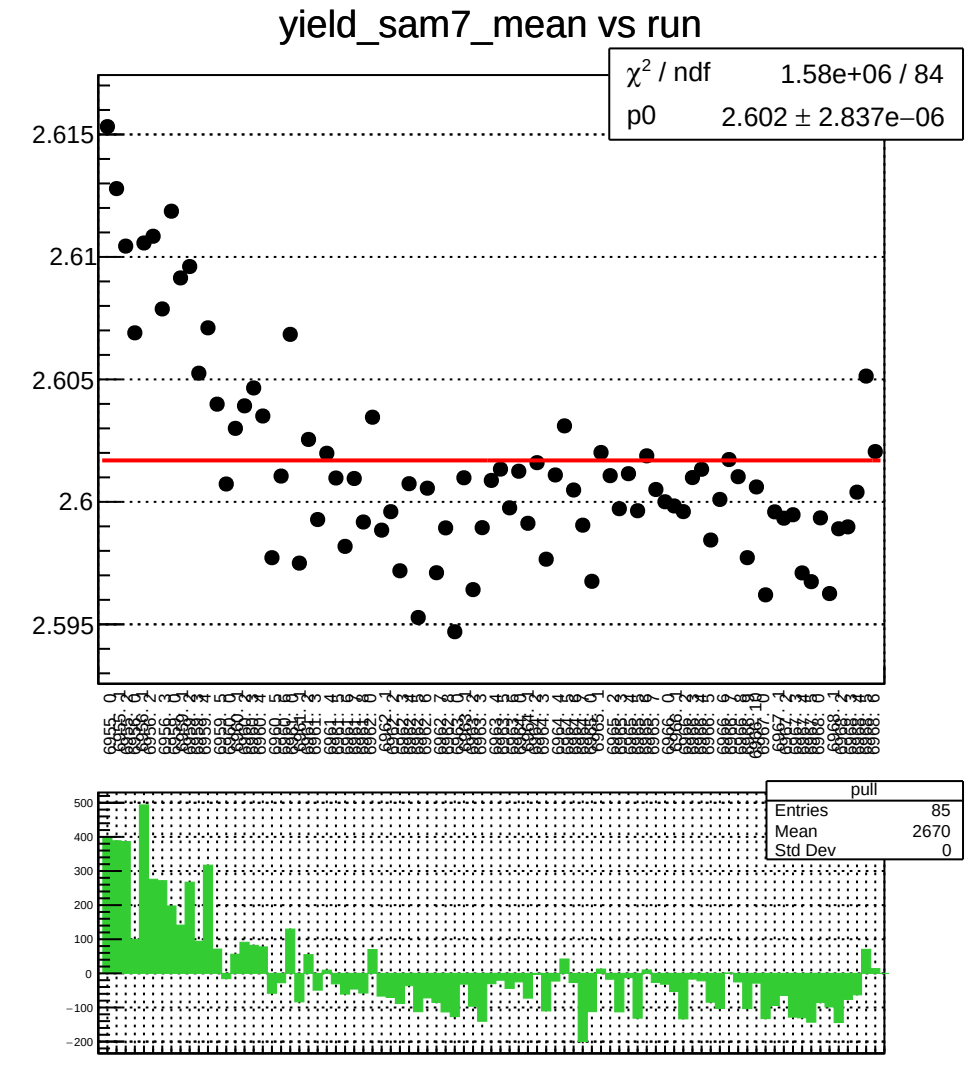

pull1D
Entries 85
Mean 3.099
Std Dev 4.061
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

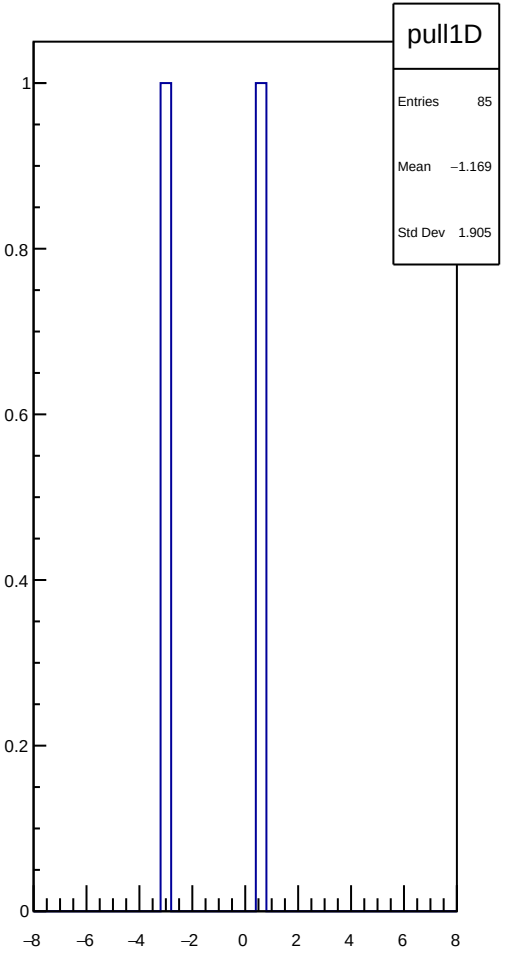

yield_sam5_rms vs run
χ² / ndf 3.472e+04 / 84
p0 0.0311 ± 2.453e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025

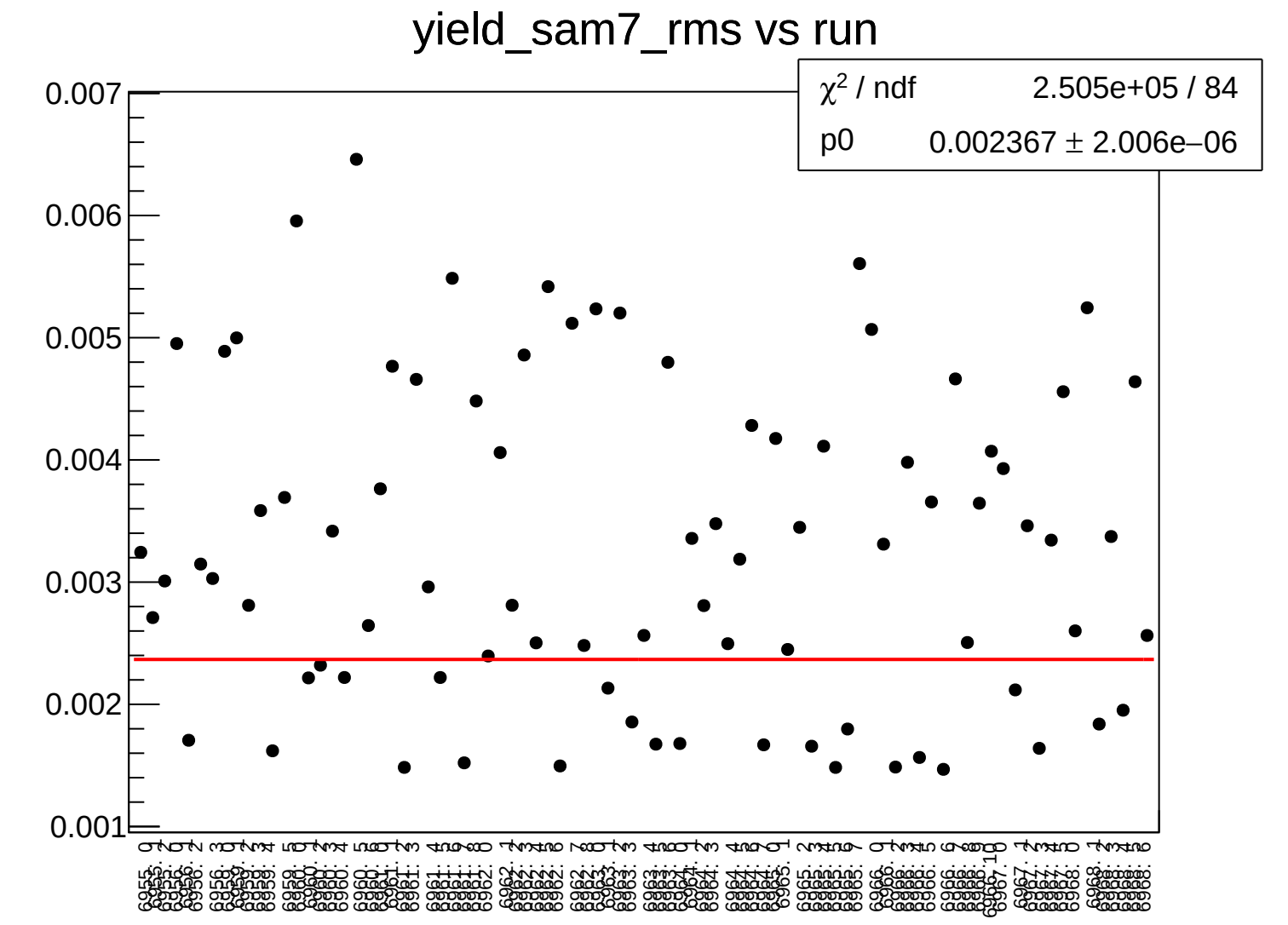

yield_sam6_mean vs run
χ² / ndf 1.424e+06 / 84
p0 9.368 ± 2.238e−05
9.46
9.44
9.42
9.4
9.38
9.36
9.34
9.32
9.3
pull
Entries 85
Mean −472.7
Std Dev 0
300
200
100
0
−100
−200

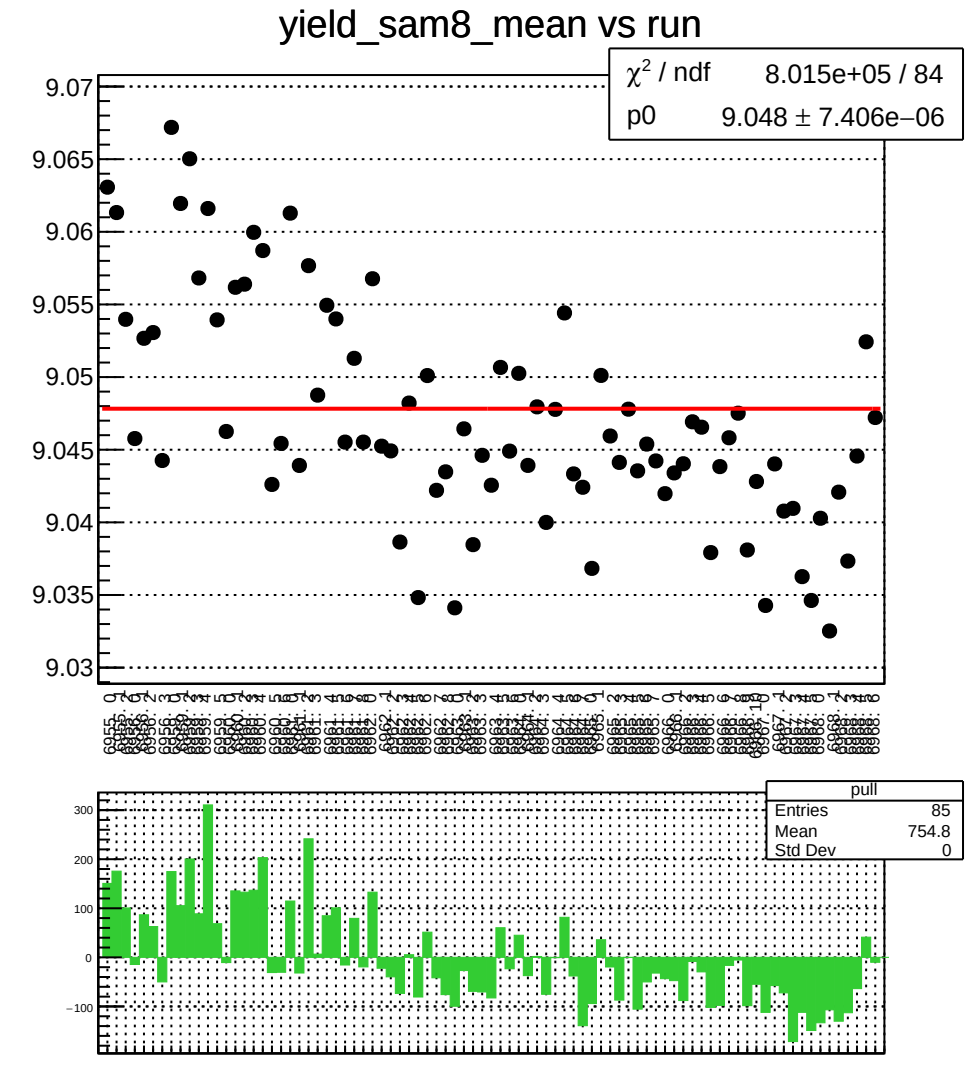

pull1D
Entries 85
Mean −3.218
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

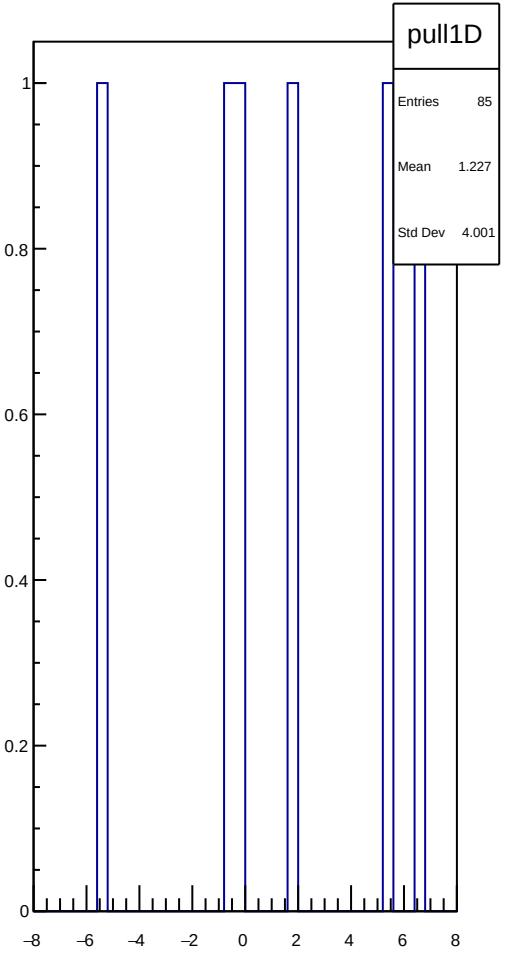

yield_sam6_rms vs run
χ² / ndf 1.353e+05 / 84
p0 0.01943 ± 1.583e–05
0.035
0.03
0.025
0.02
0.015

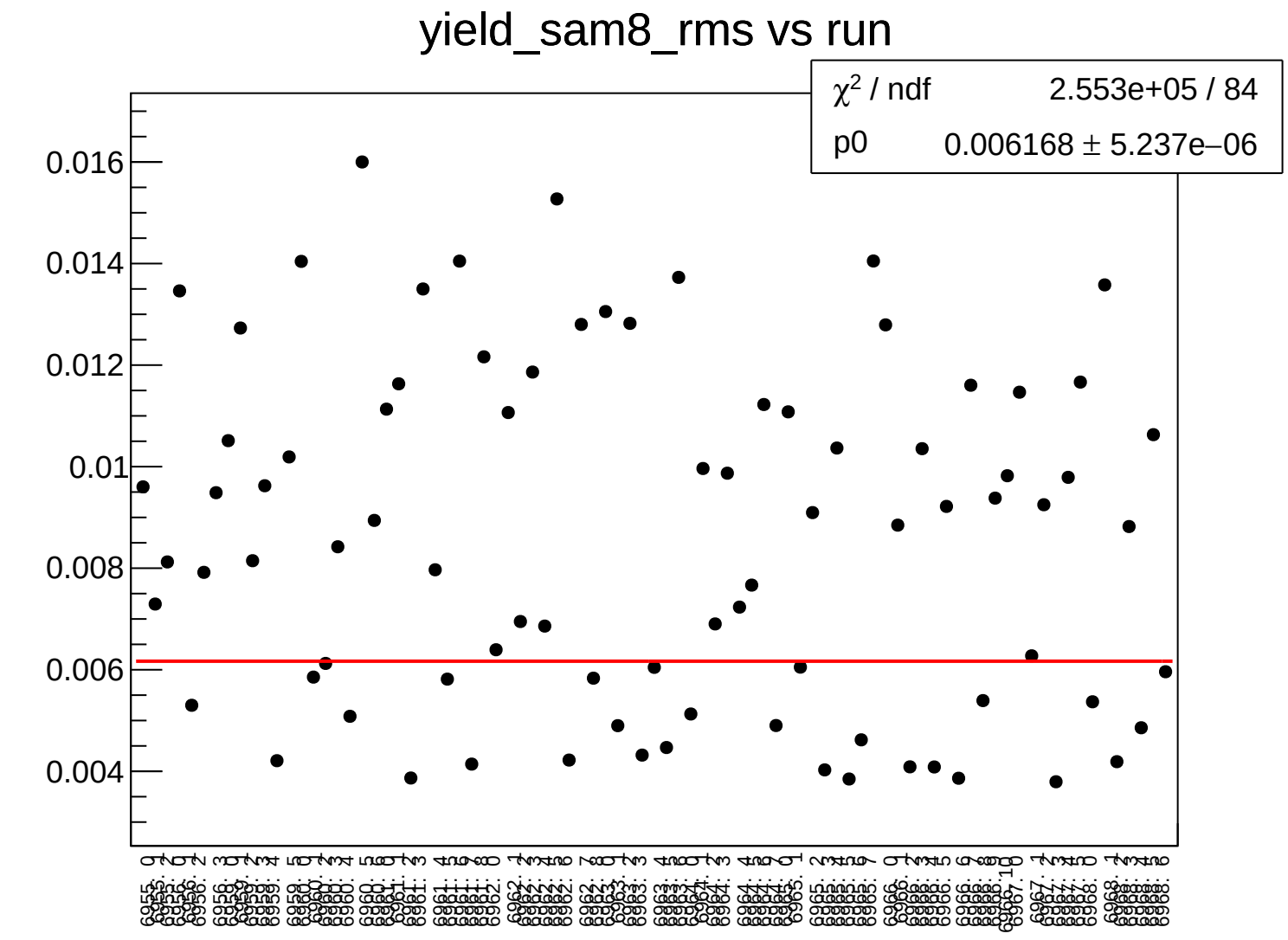

yield_sam7_mean vs run
χ² / ndf 1.58e+06 / 84
p0 2.602 ± 2.837e−06
2.615
2.61
2.605
2.6
2.595
pull
Entries 85
Mean 2670
Std Dev 0
500
400
300
200
100
0
−100
−200

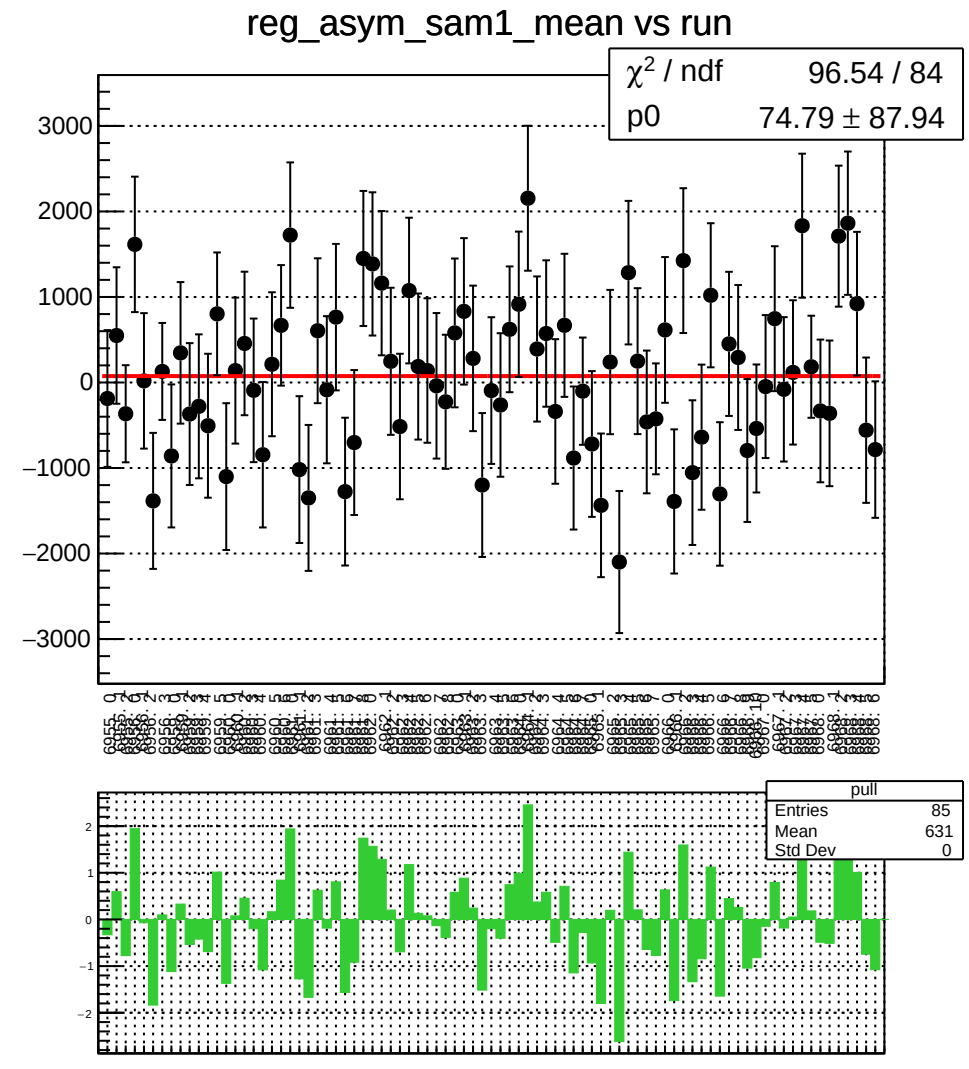

pull1D
Entries 85
Mean −1.169
Std Dev 1.905
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

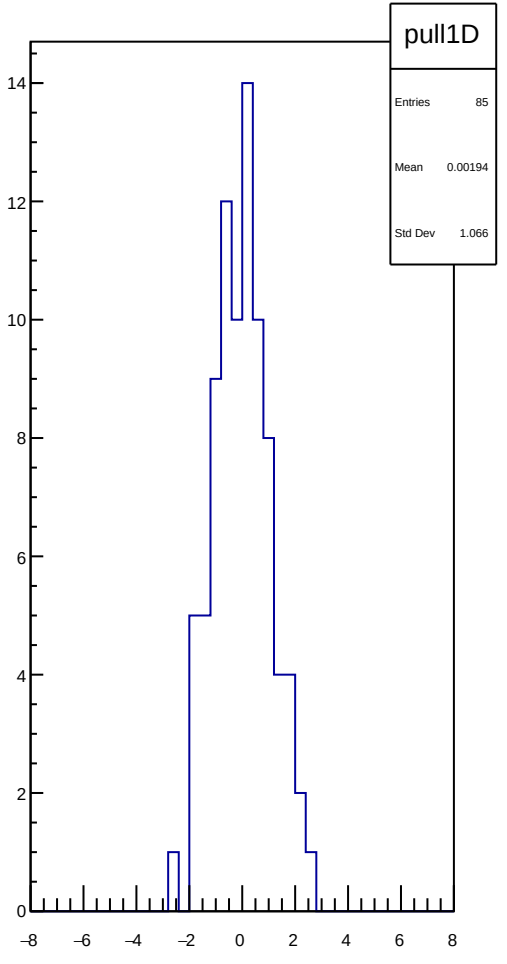

yield_sam7_rms vs run
$\chi^2$ / ndf 2.505e+05 / 84
p0 0.002367 ± 2.006e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

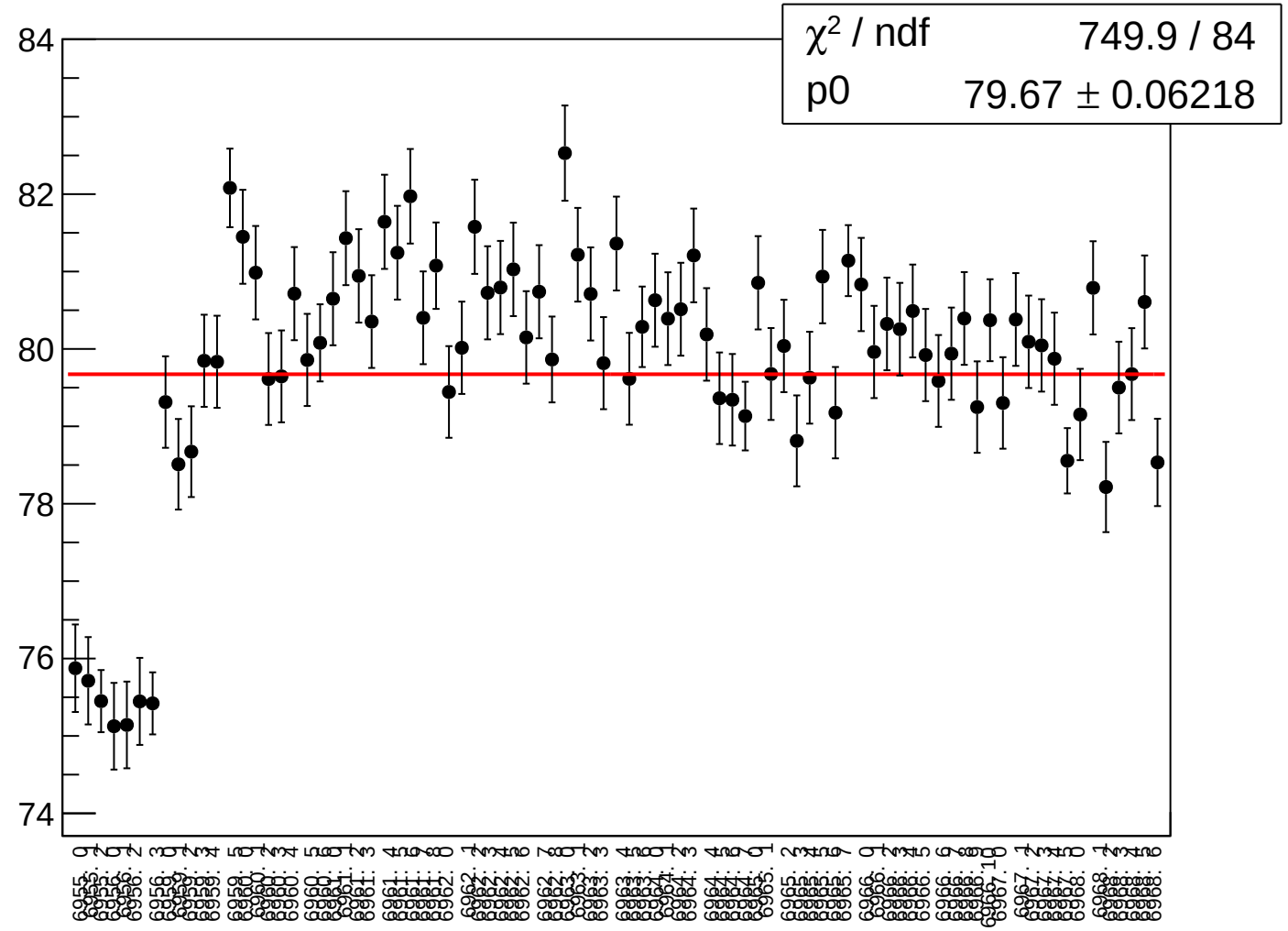

yield_sam8_mean vs run
χ² / ndf 8.015e+05 / 84
p0 9.048 ± 7.406e−06
9.07
9.065
9.06
9.055
9.05
9.045
9.04
9.035
9.03
pull
Entries 85
Mean 754.8
Std Dev 0
300
200
100
0
−100

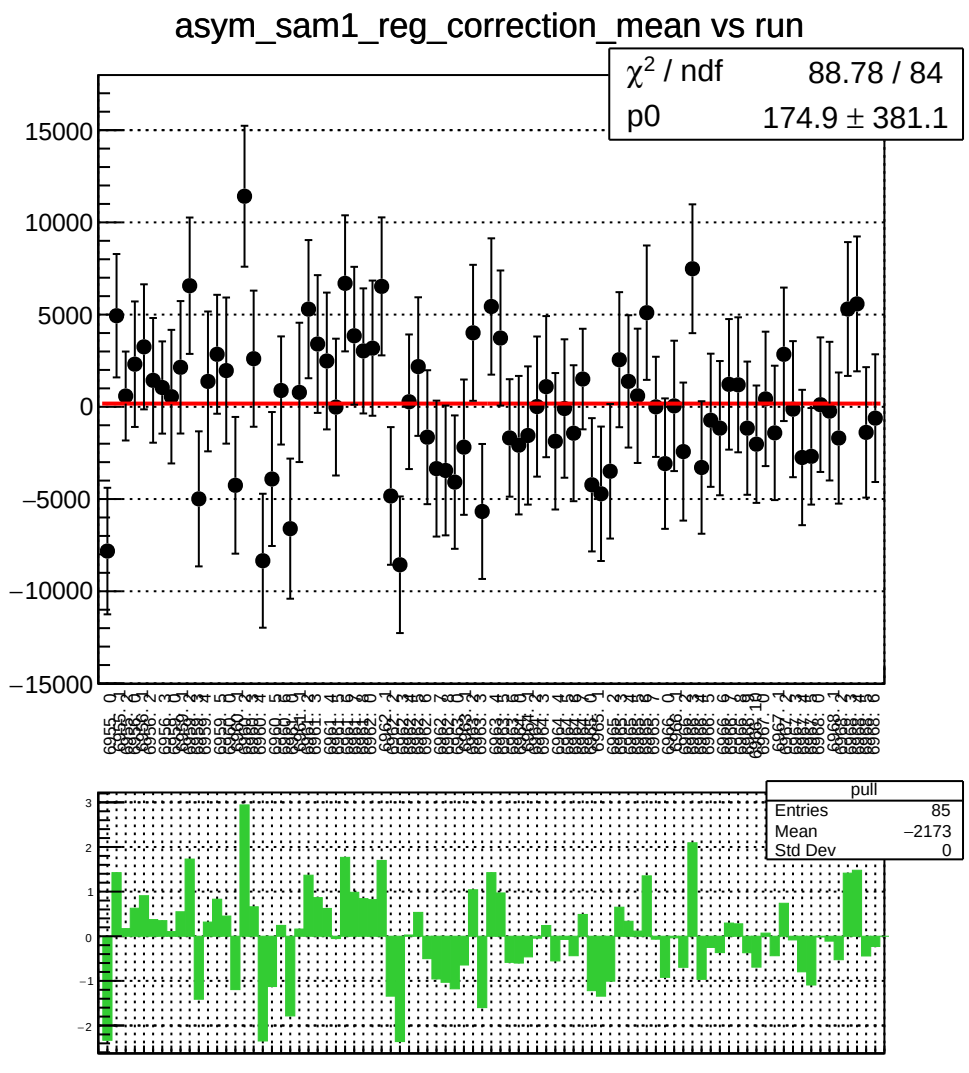

pull1D
Entries 85
Mean 1.227
Std Dev 4.001
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

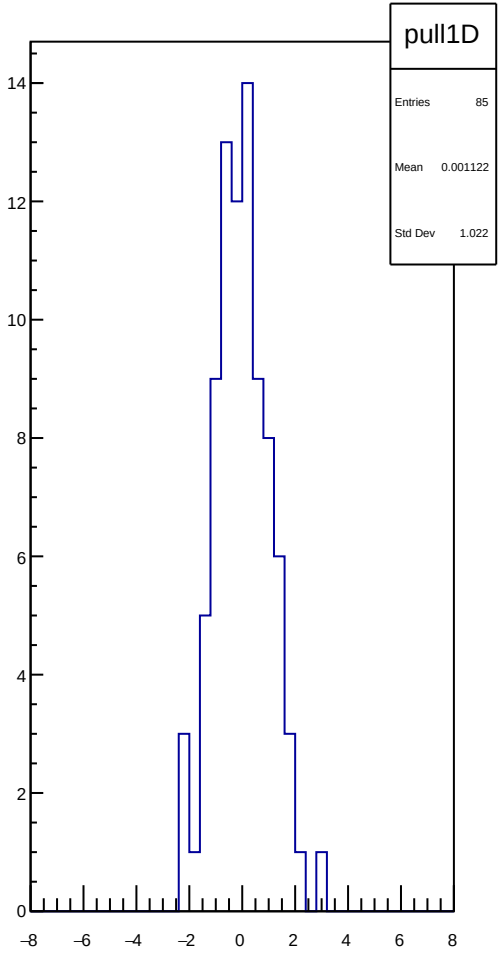

yield_sam8_rms vs run
χ² / ndf 2.553e+05 / 84
p0 0.006168 ± 5.237e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

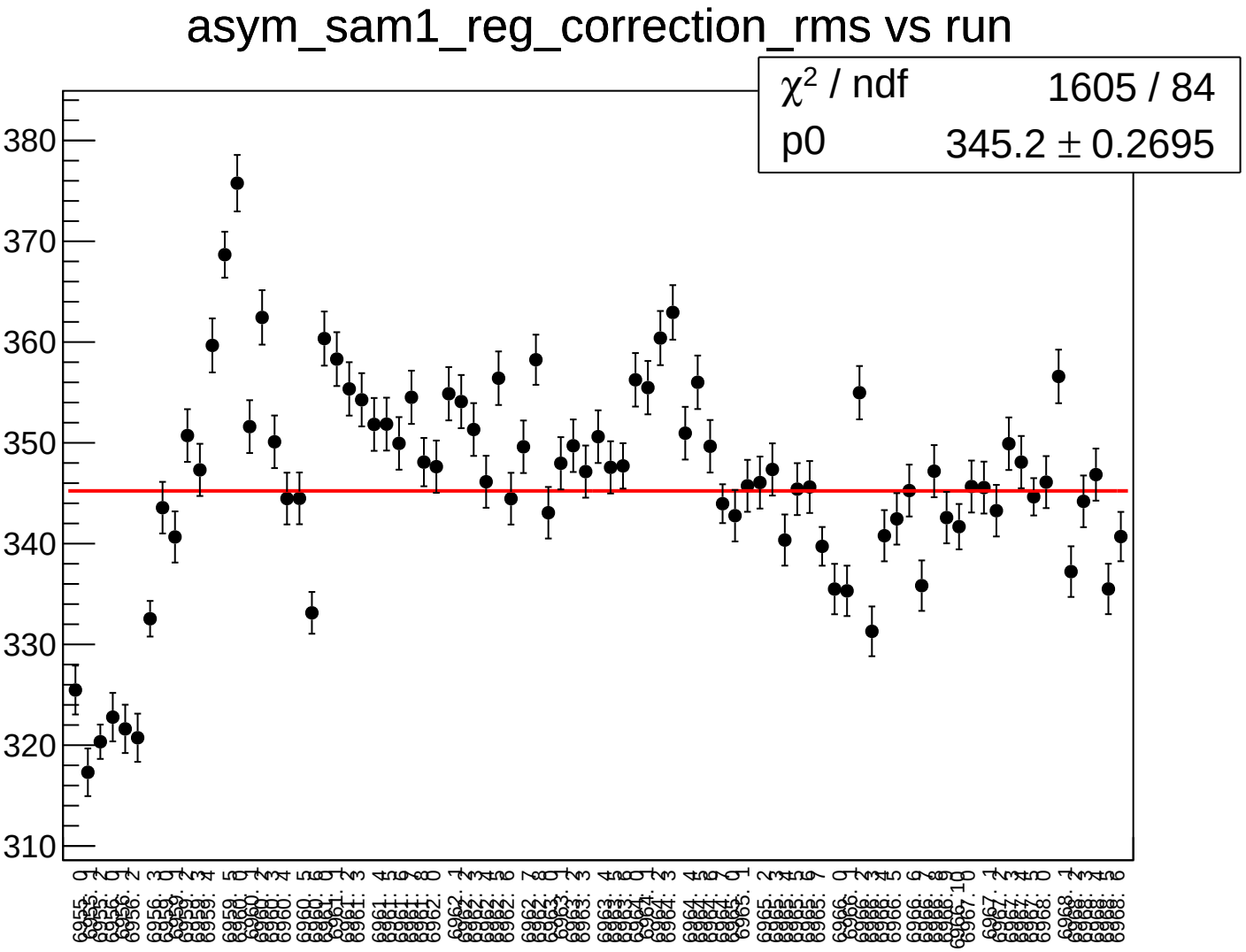

reg_asym_sam1_mean vs run
χ² / ndf 96.54 / 84
p0 74.79 ± 87.94
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 631
Std Dev 0
2
1
0
−1
−2

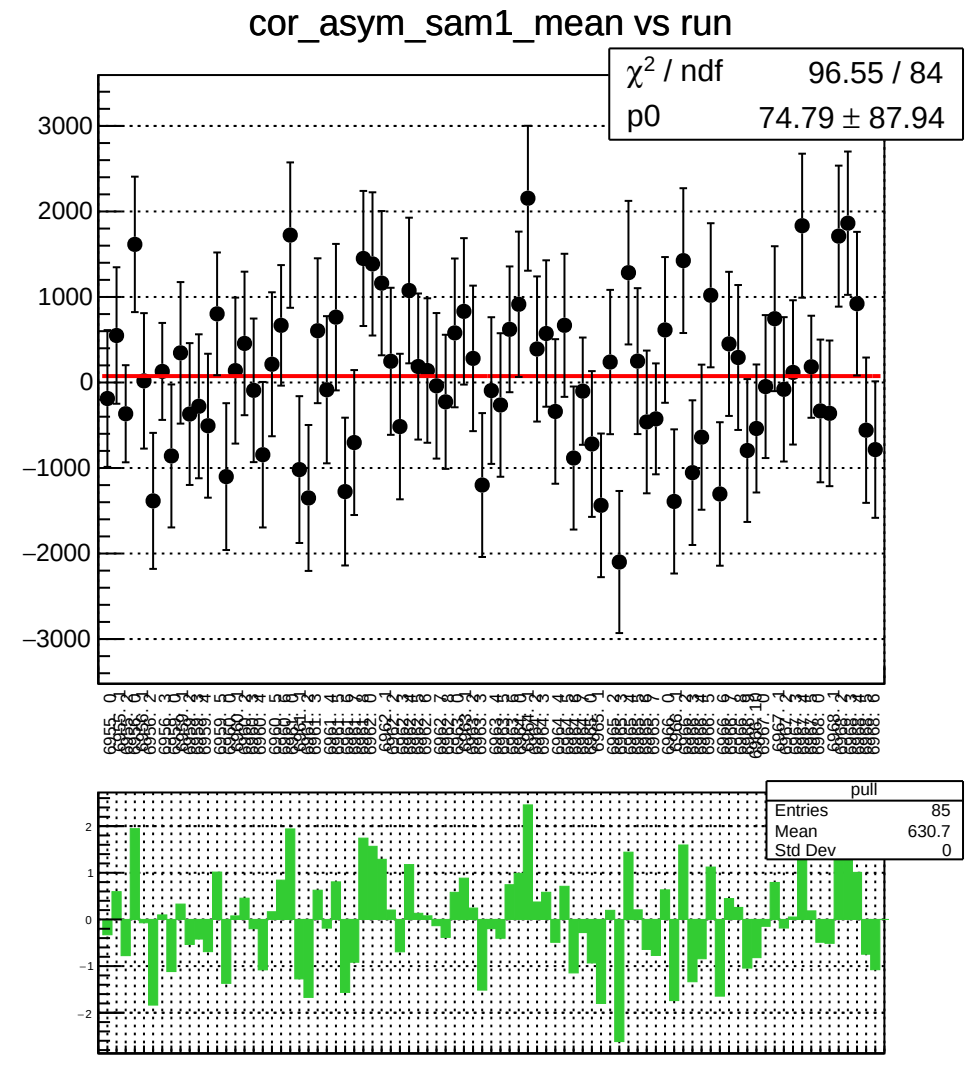

pull1D
Entries 85
Mean 0.00194
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

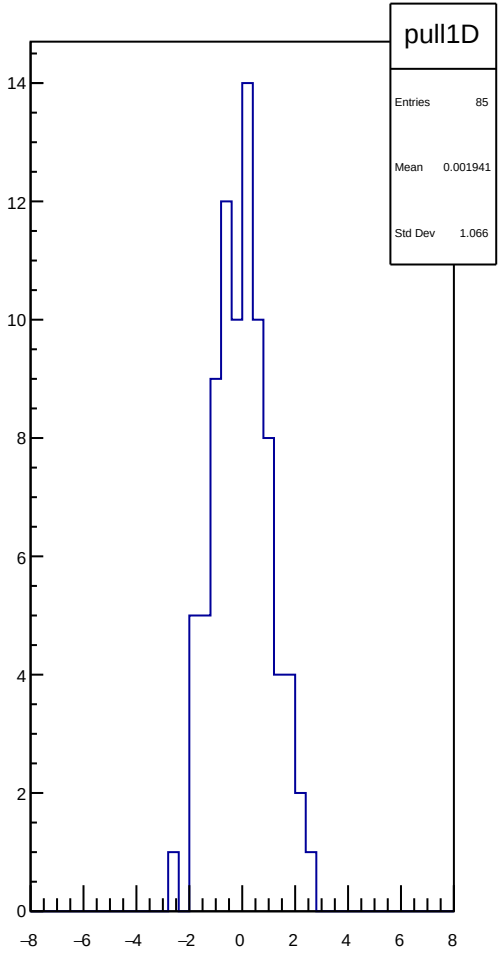

reg_asym_sam1_rms vs run
χ² / ndf 749.9 / 84
p0 79.67 ± 0.06218
84
82
80
78
76
74

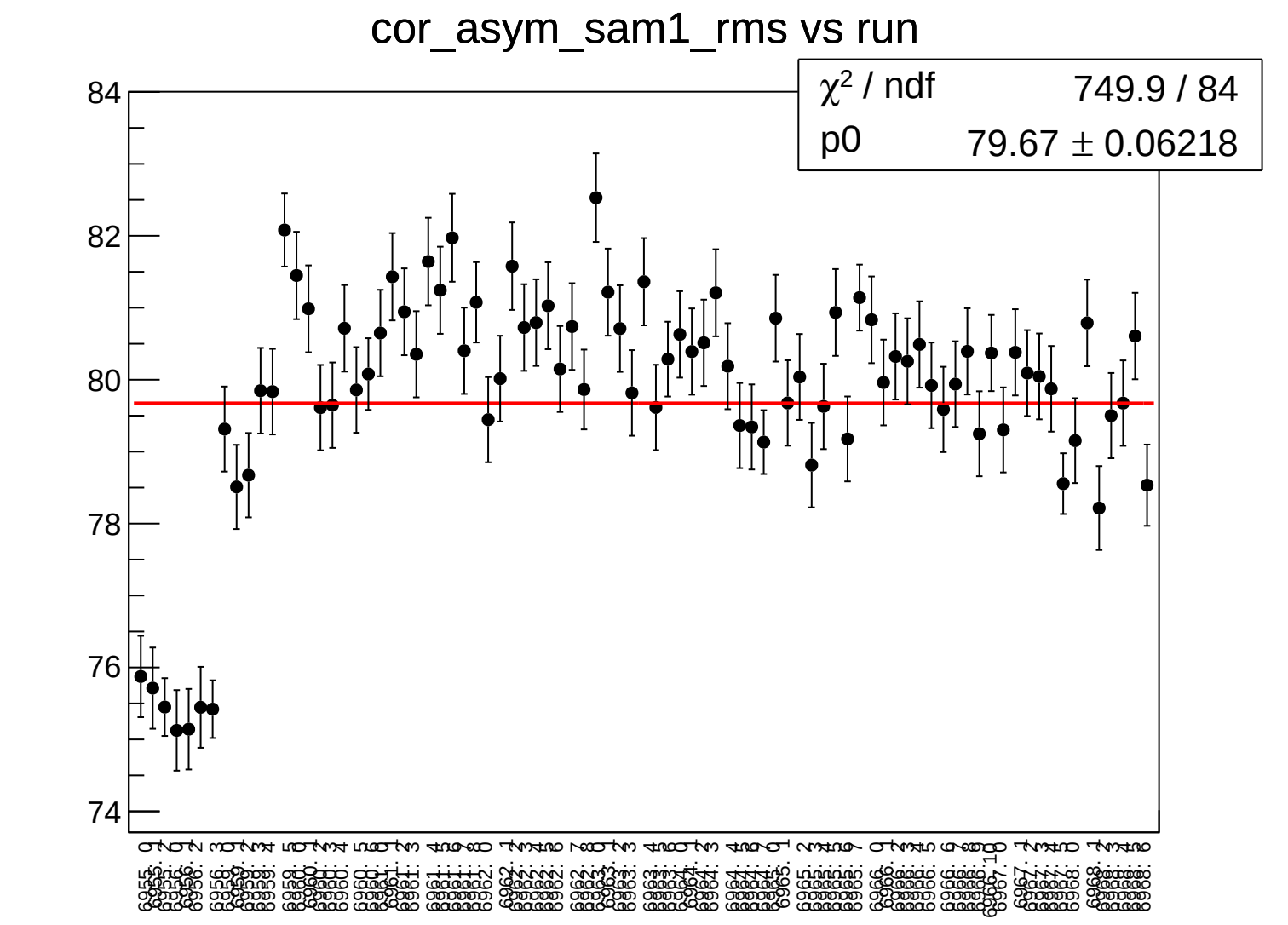

asym_sam1_reg_correction_mean vs run
χ² / ndf 88.78 / 84
p0 174.9 ± 381.1
pull
Entries 85
Mean −2173
Std Dev 0

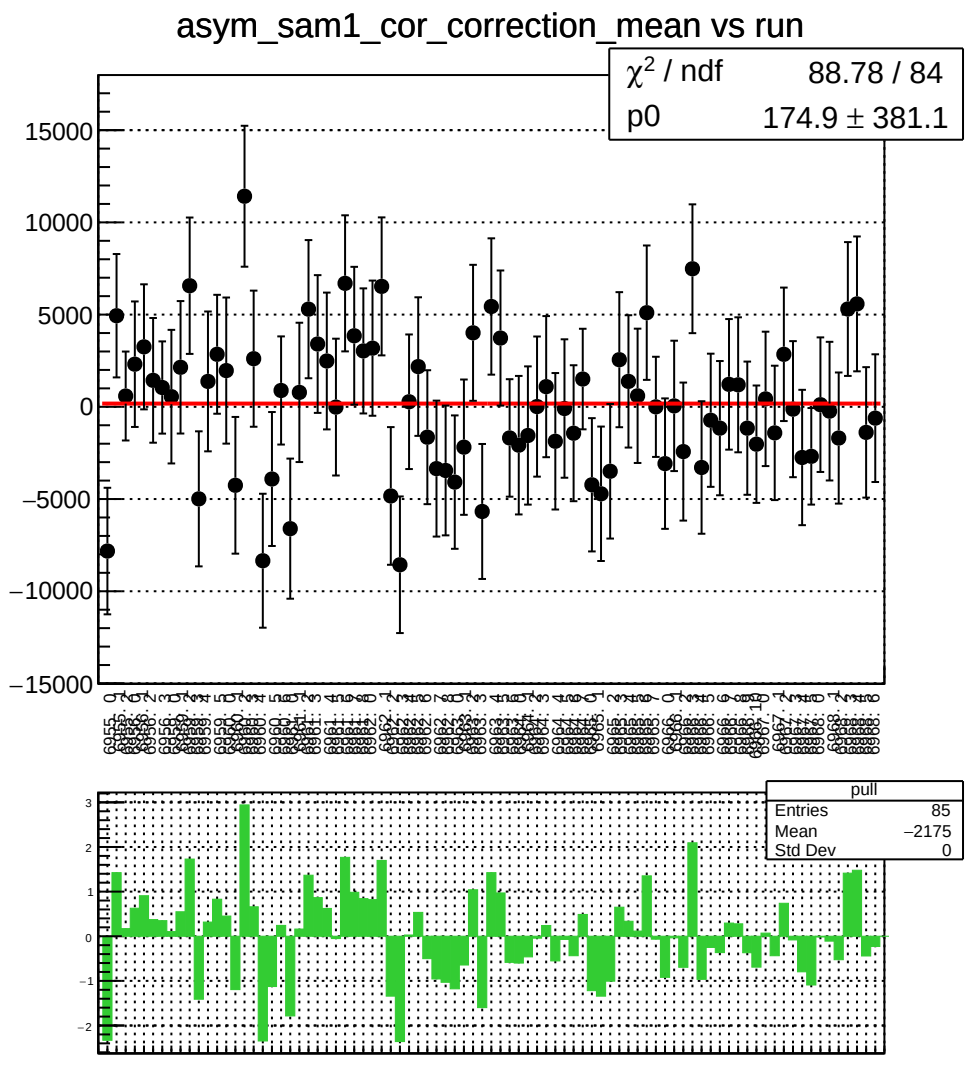

pull1D
Entries 85
Mean 0.001122
Std Dev 1.022

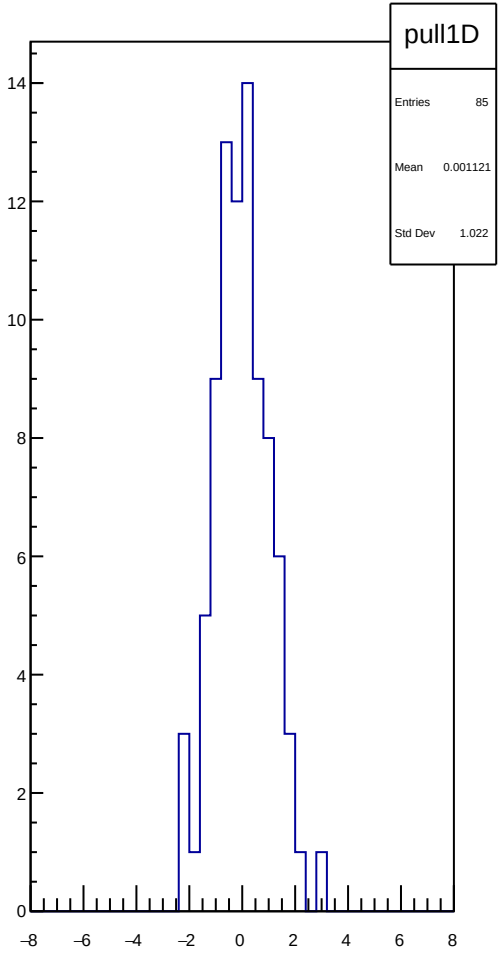

asym_sam1_reg_correction_rms vs run
χ² / ndf 1605 / 84
p0 345.2 ± 0.2695
380
370
360
350
340
330
320
310

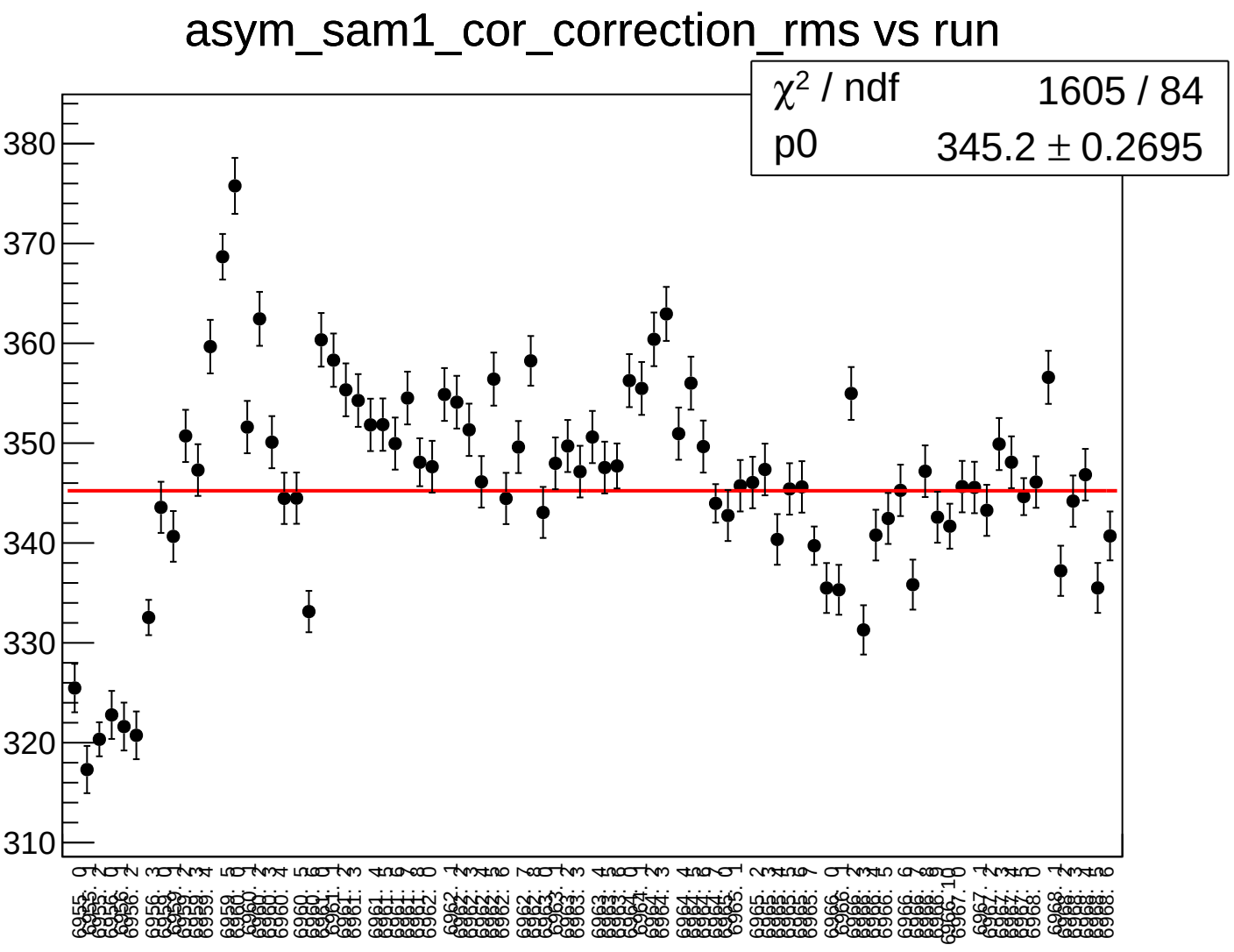

cor_asym_sam1_mean vs run
χ² / ndf 96.55 / 84
p0 74.79 ± 87.94
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 630.7
Std Dev 0
2
1
0
−1
−2

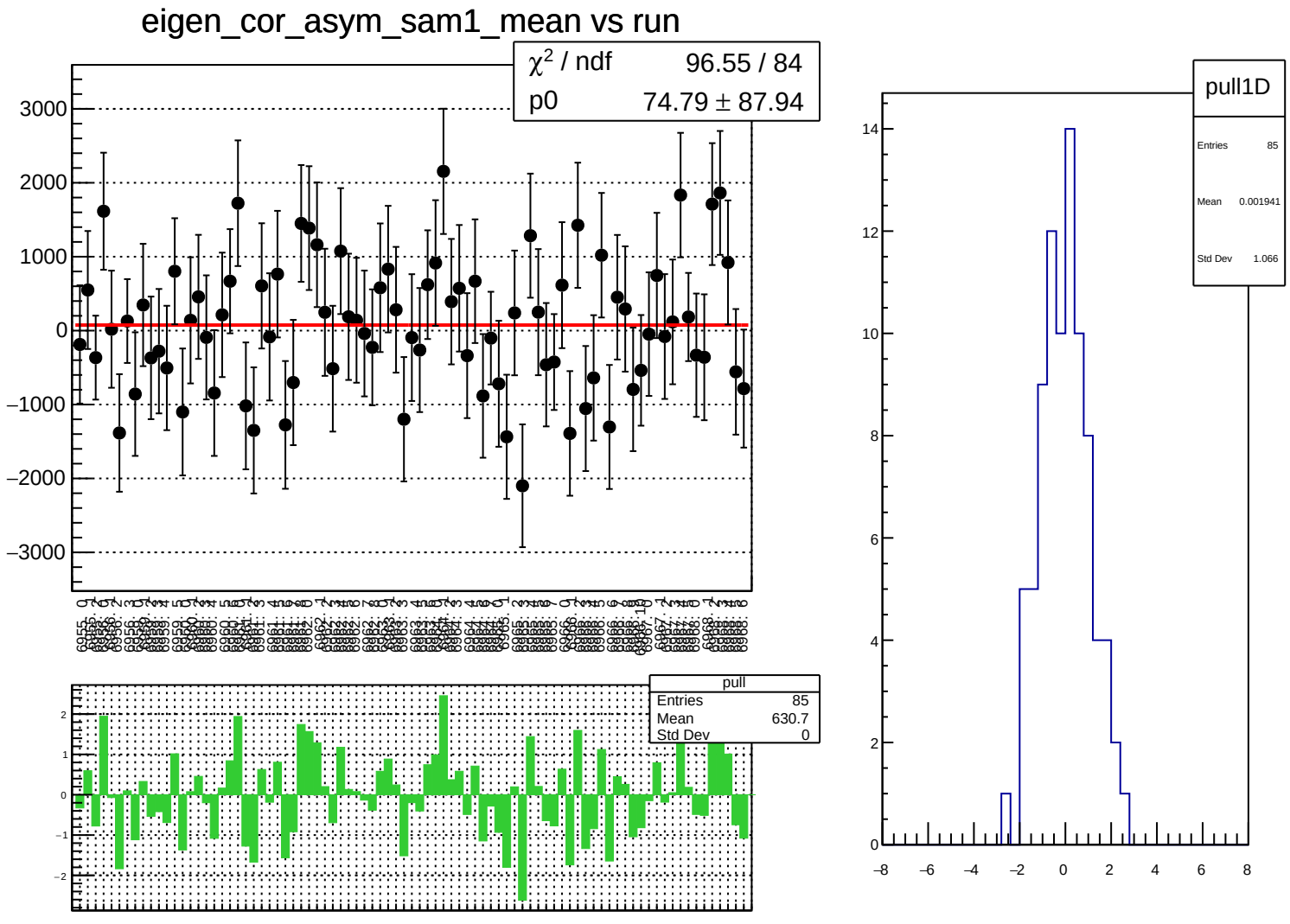

pull1D
Entries 85
Mean 0.001941
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

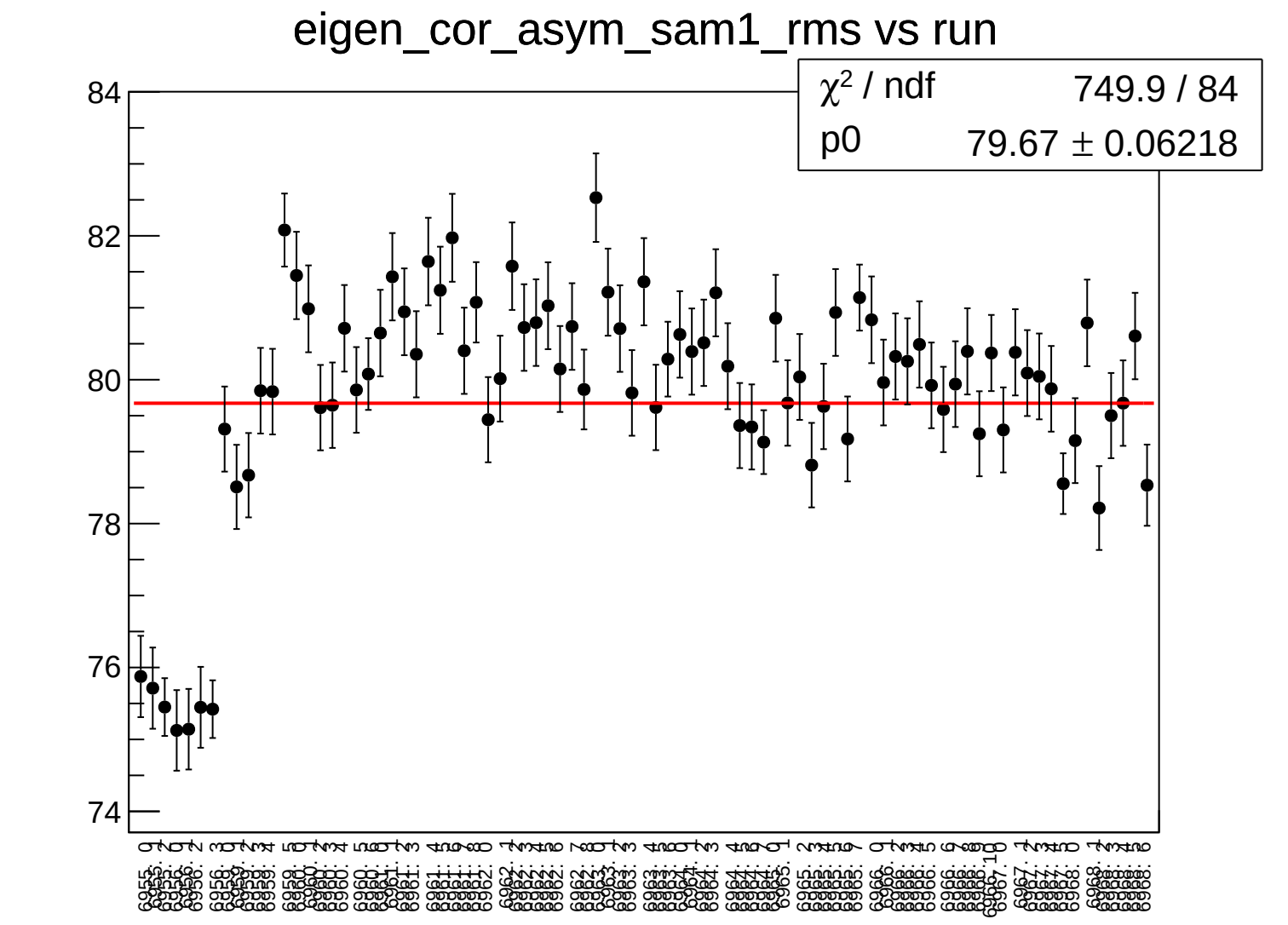

cor_asym_sam1_rms vs run
χ² / ndf 749.9 / 84
p0 79.67 ± 0.06218
84
82
80
78
76
74

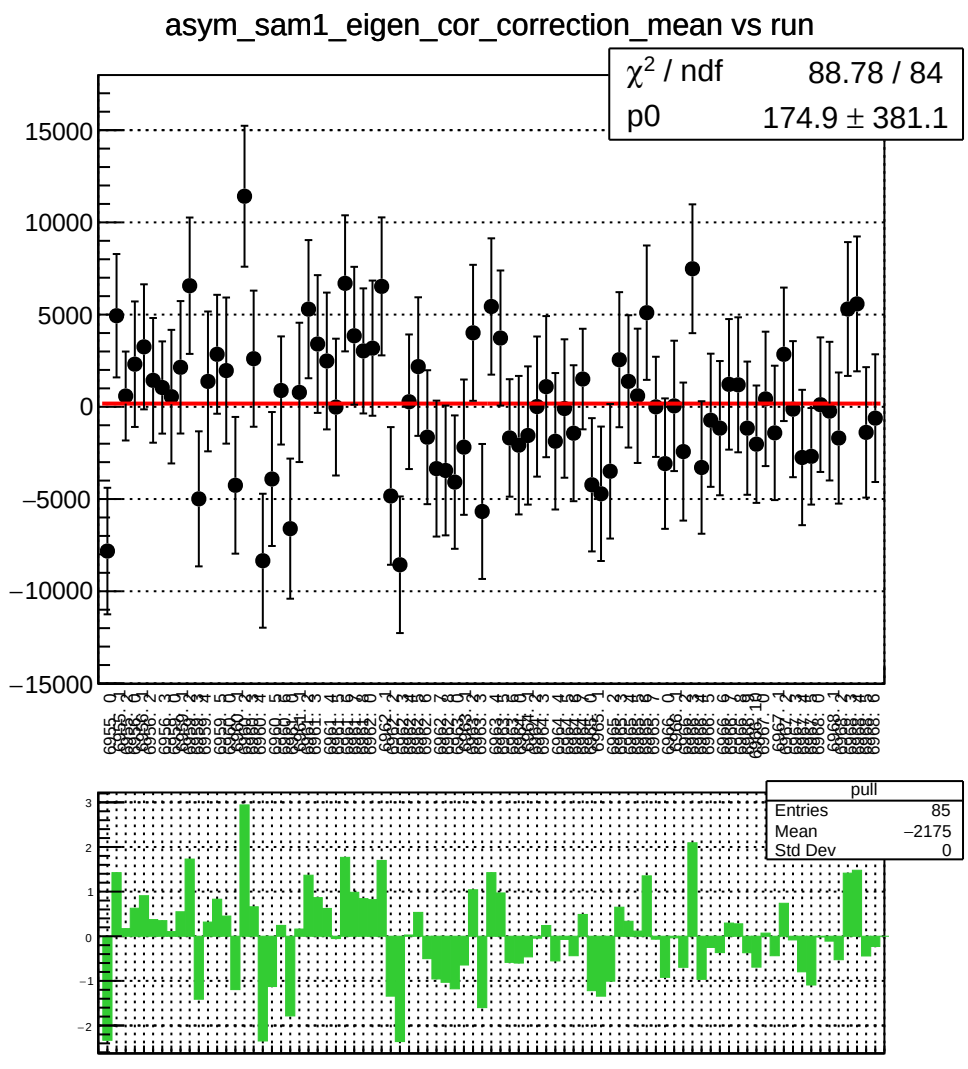

asym_sam1_cor_correction_mean vs run
χ² / ndf 88.78 / 84
p0 174.9 ± 381.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −2175
Std Dev 0
3
2
1
0
−1
−2

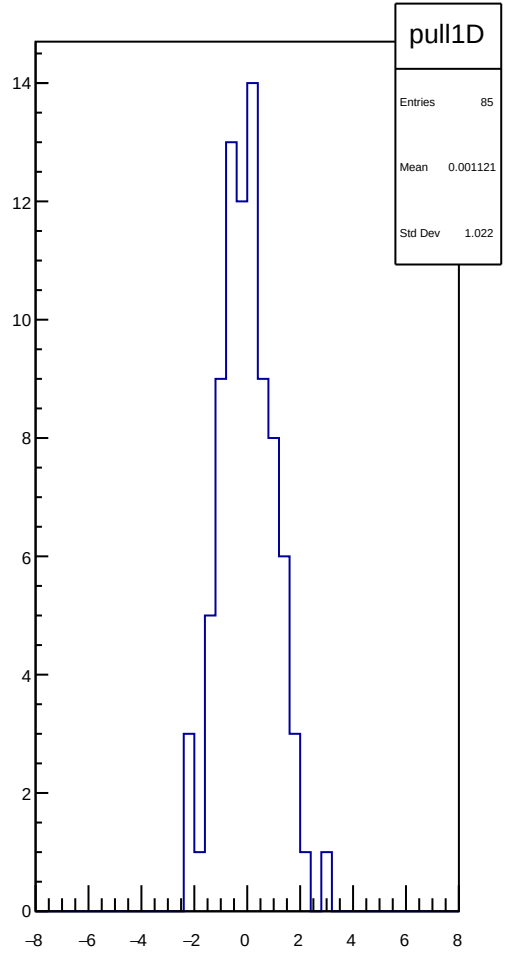

pull1D
Entries 85
Mean 0.001121
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

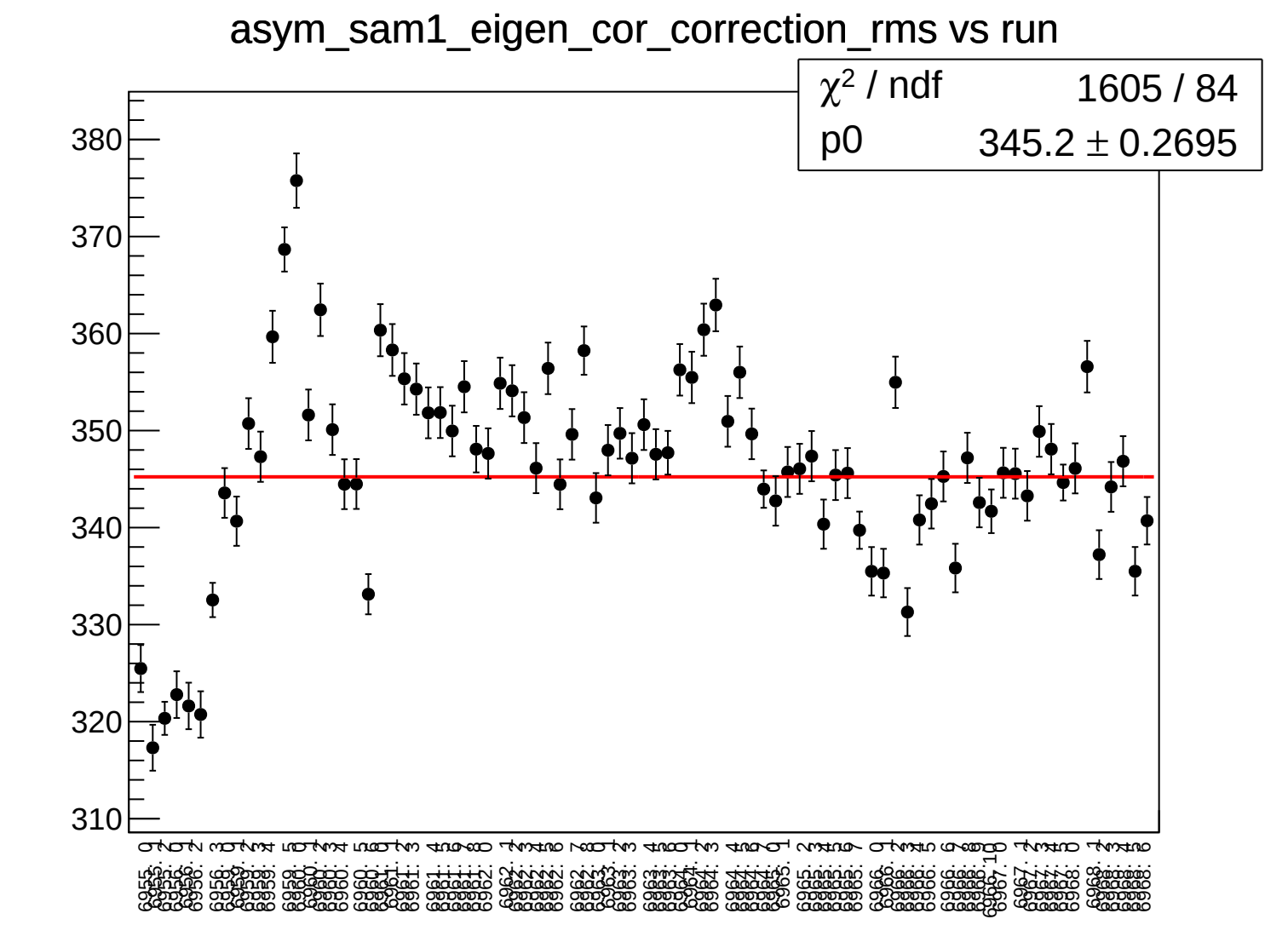

asym_sam1_cor_correction_rms vs run
χ² / ndf 1605 / 84
p0 345.2 ± 0.2695
380
370
360
350
340
330
320
310

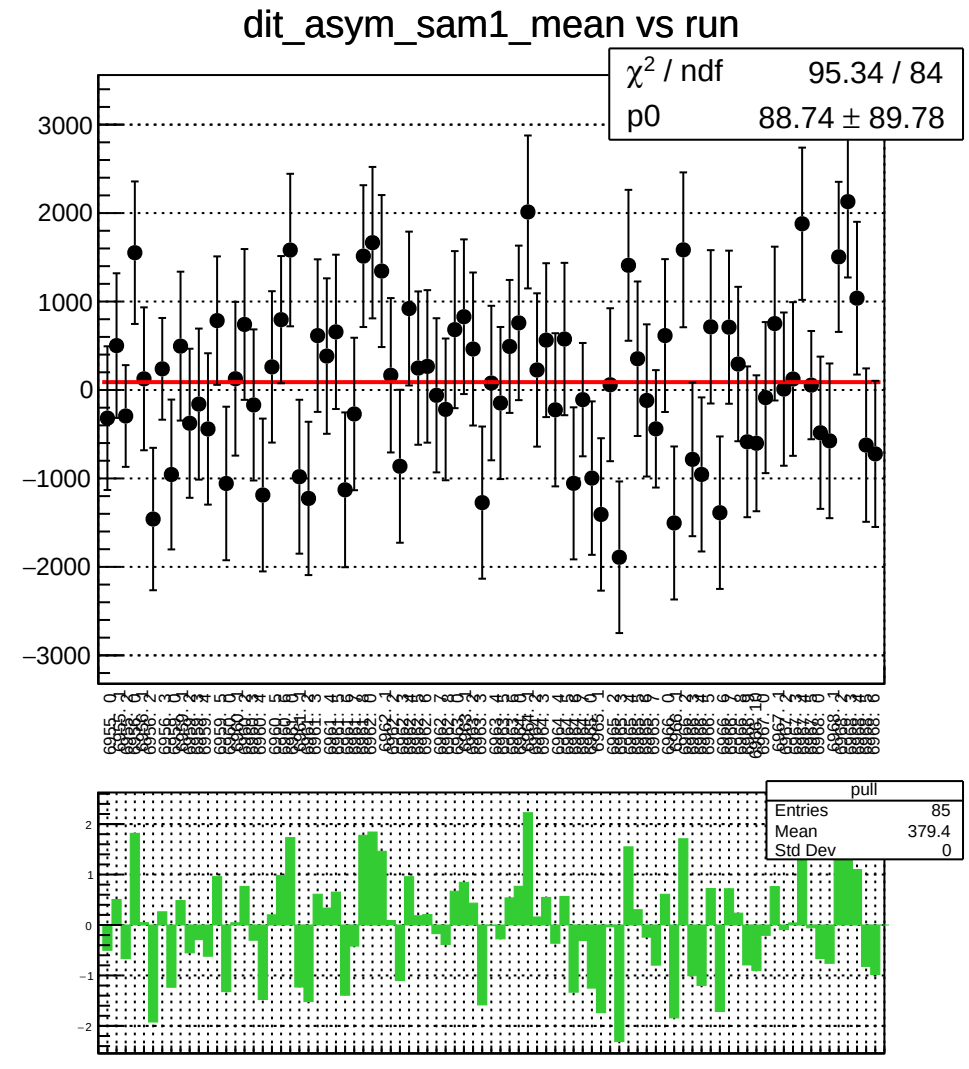

eigen_cor_asym_sam1_mean vs run
χ² / ndf 96.55 / 84
p0 74.79 ± 87.94
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 630.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.001941
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

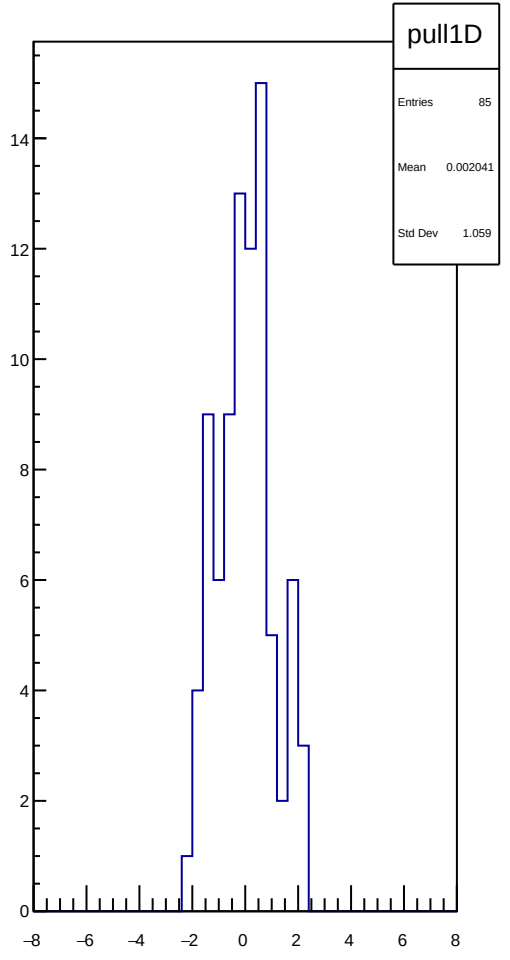

eigen_cor_asym_sam1_rms vs run
χ² / ndf 749.9 / 84
p0 79.67 ± 0.06218
84
82
80
78
76
74

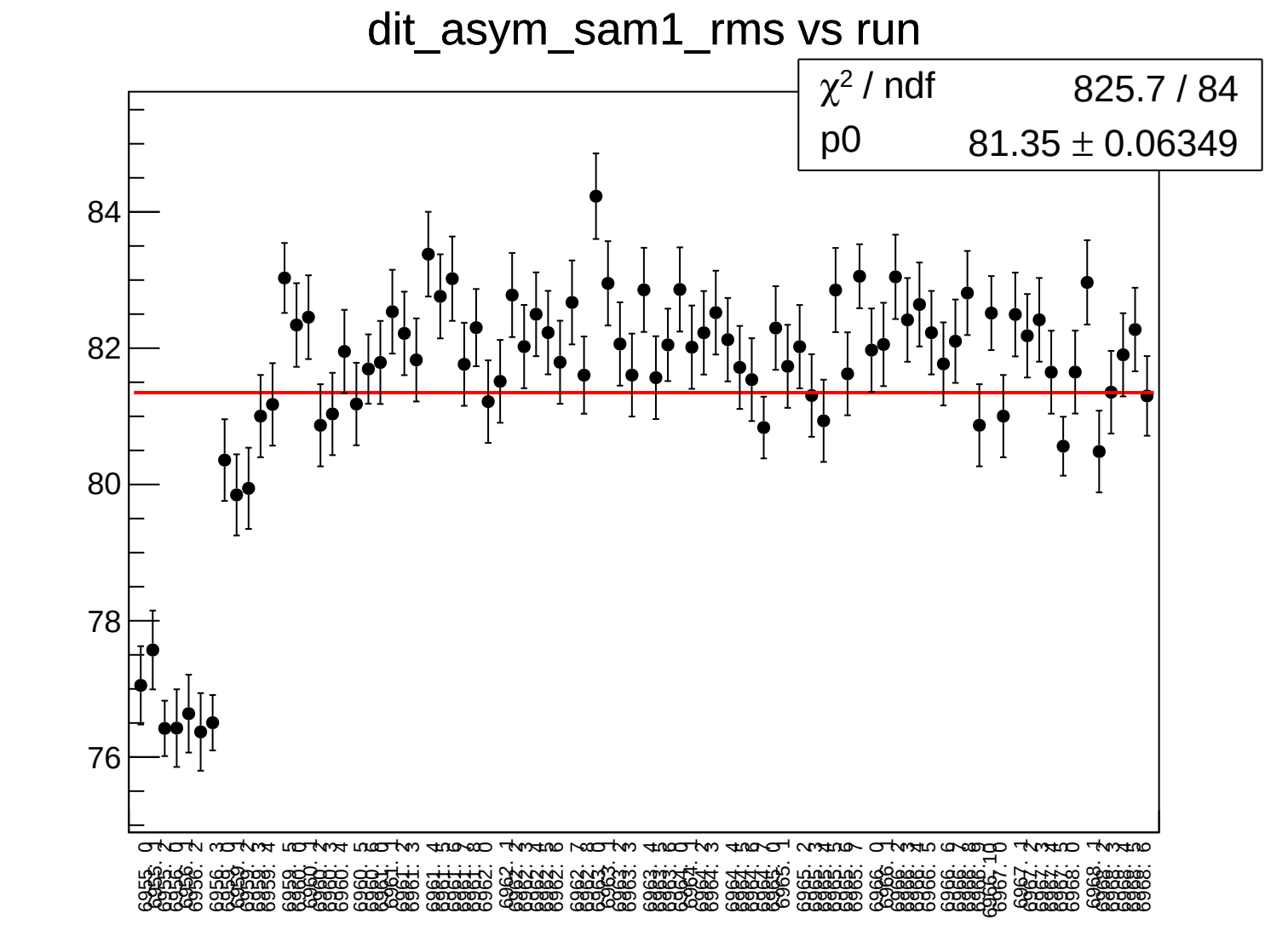

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 88.78 / 84
p0 174.9 ± 381.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −2175
Std Dev 0
3
2
1
0
−1
−2

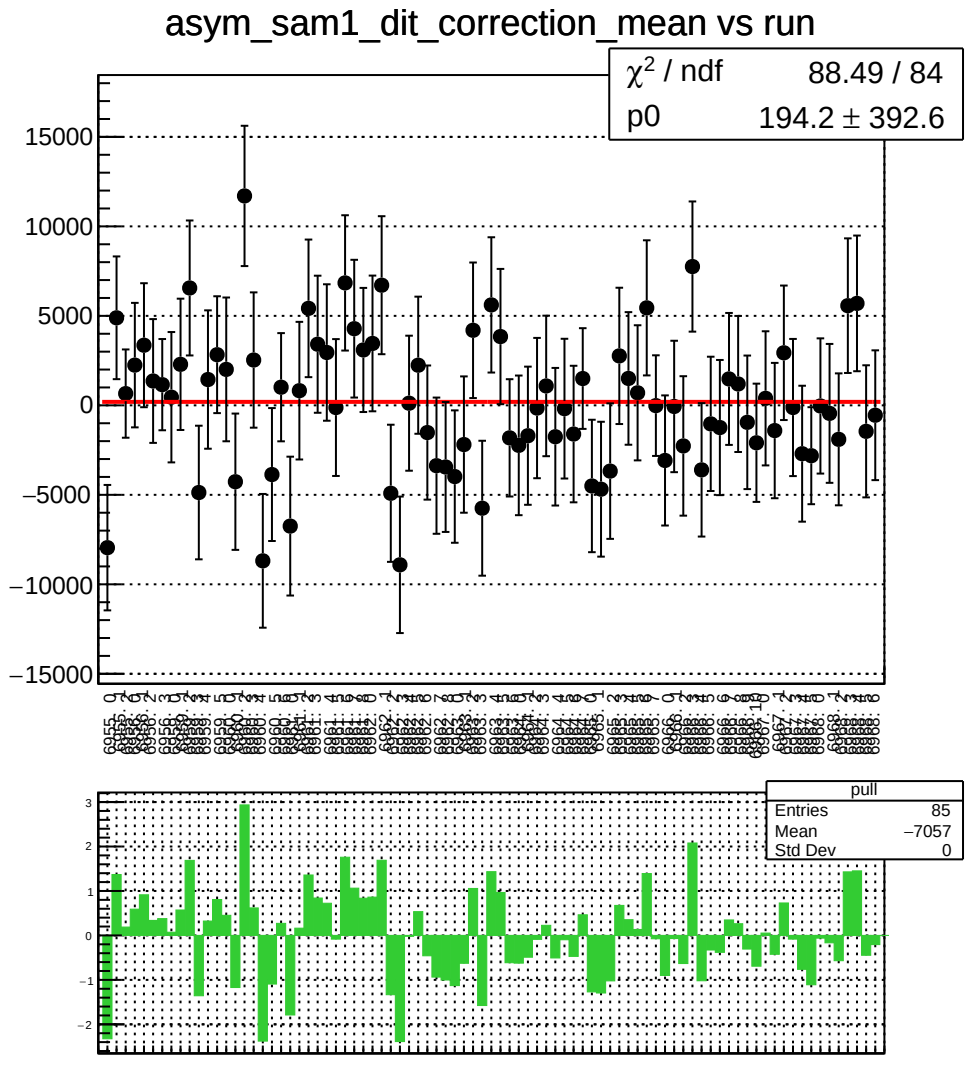

pull1D
Entries 85
Mean 0.001121
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

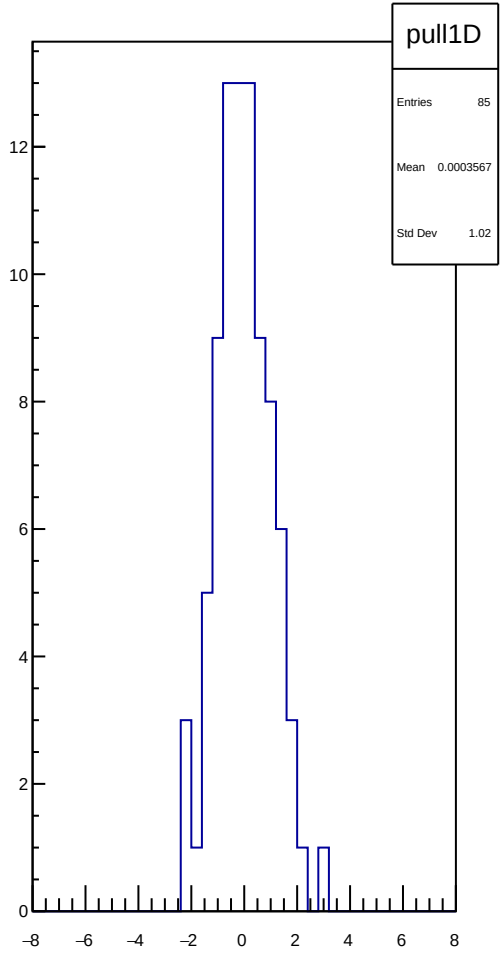

asym_sam1_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 1605 / 84
p0 345.2 ± 0.2695
380
370
360
350
340
330
320
310

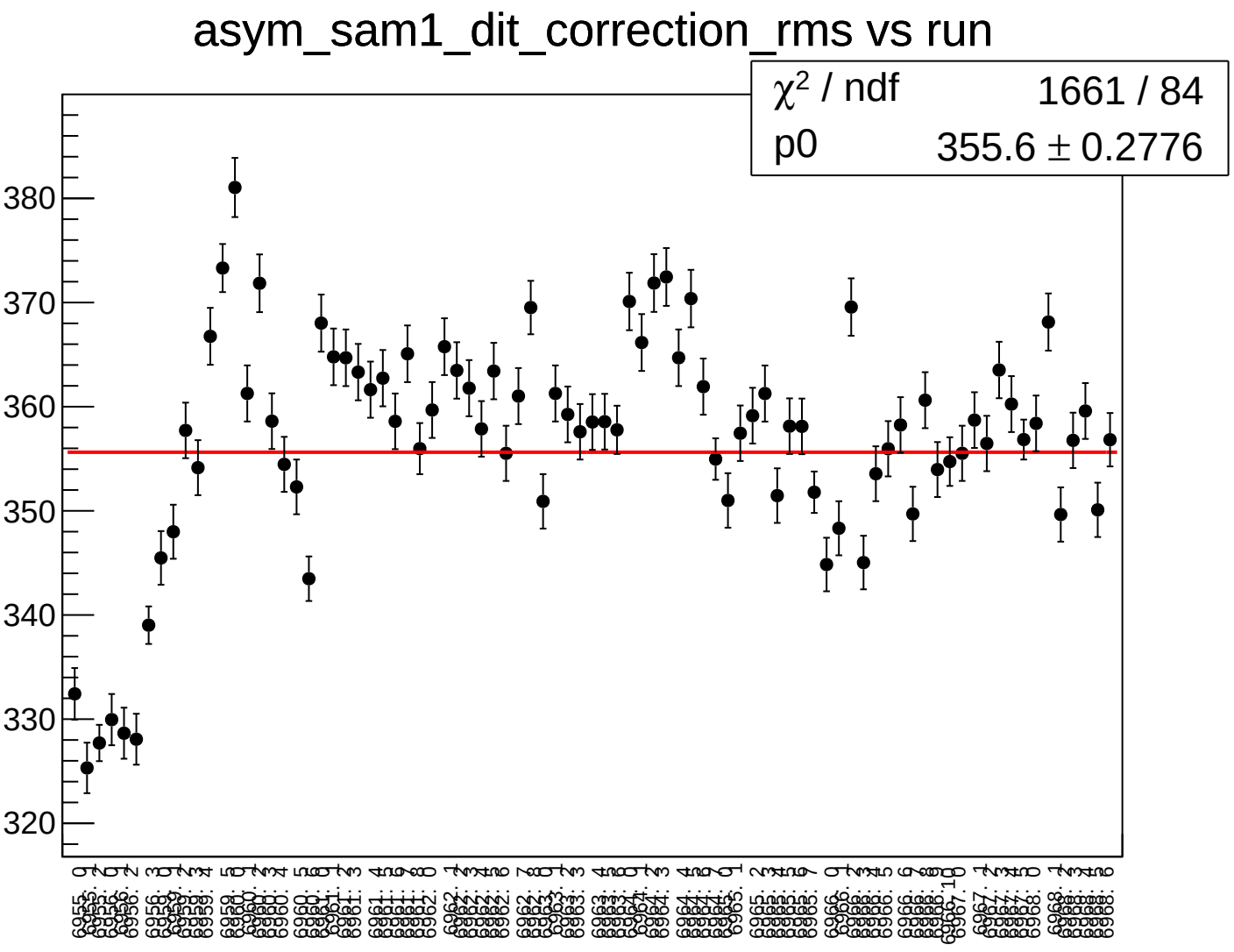

dit_asym_sam1_mean vs run
χ² / ndf 95.34 / 84
p0 88.74 ± 89.78
pull
Entries 85
Mean 379.4
Std Dev 0

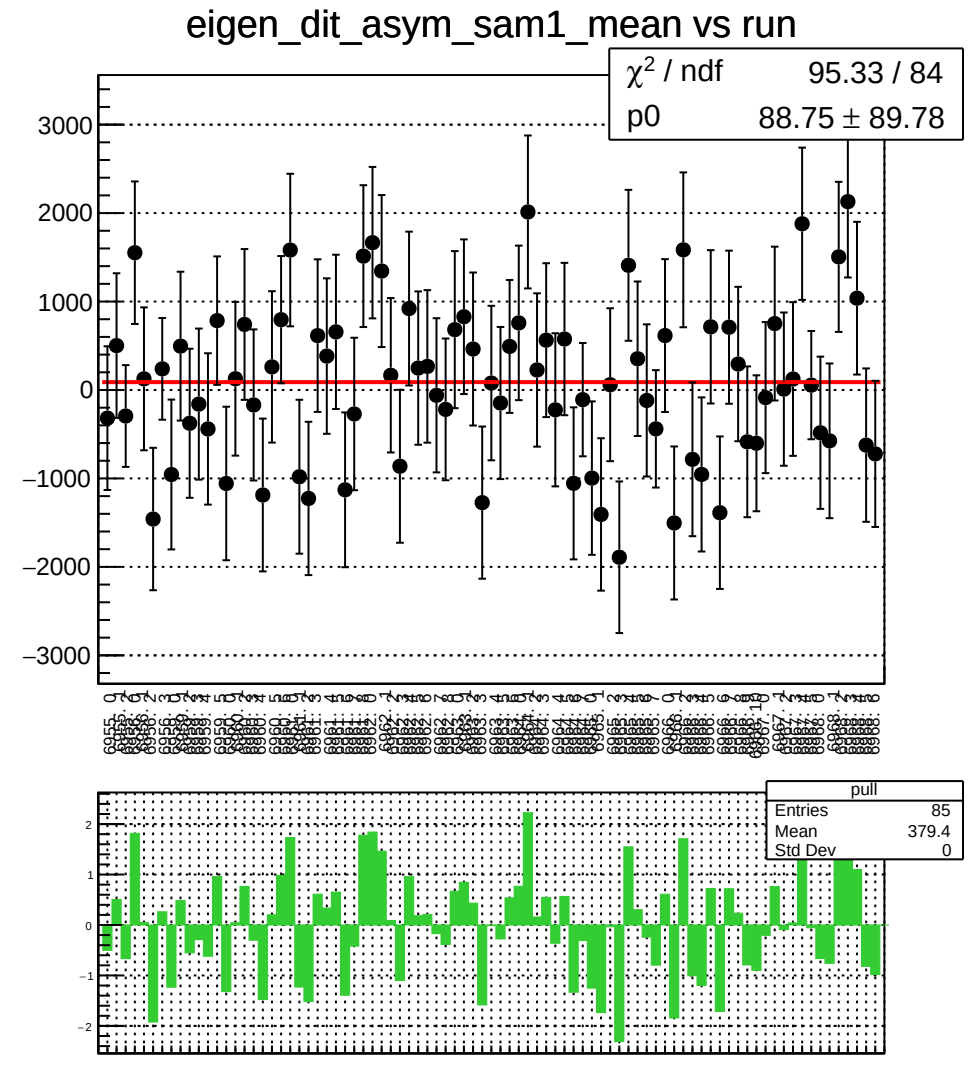

pull1D
Entries 85
Mean 0.002041
Std Dev 1.059

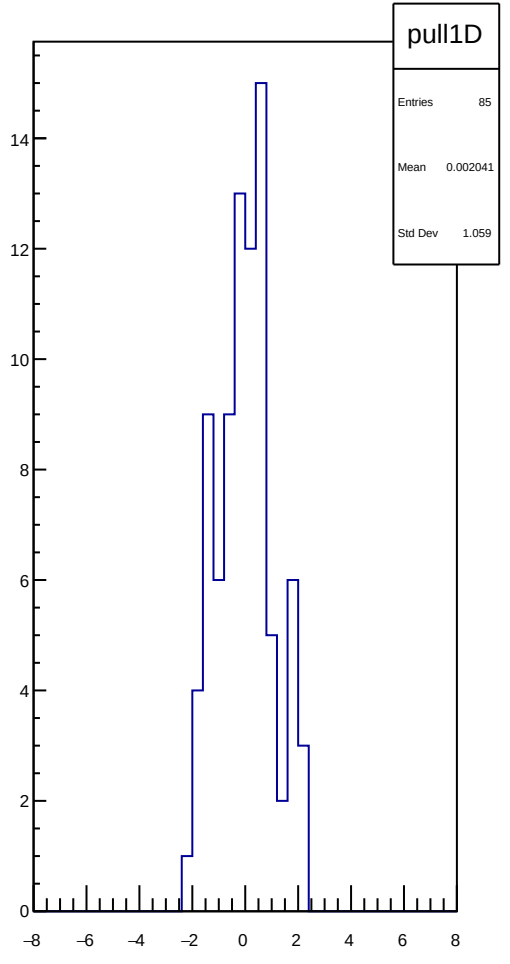

dit_asym_sam1_rms vs run
χ² / ndf 825.7 / 84
p0 81.35 ± 0.06349
84
82
80
78
76

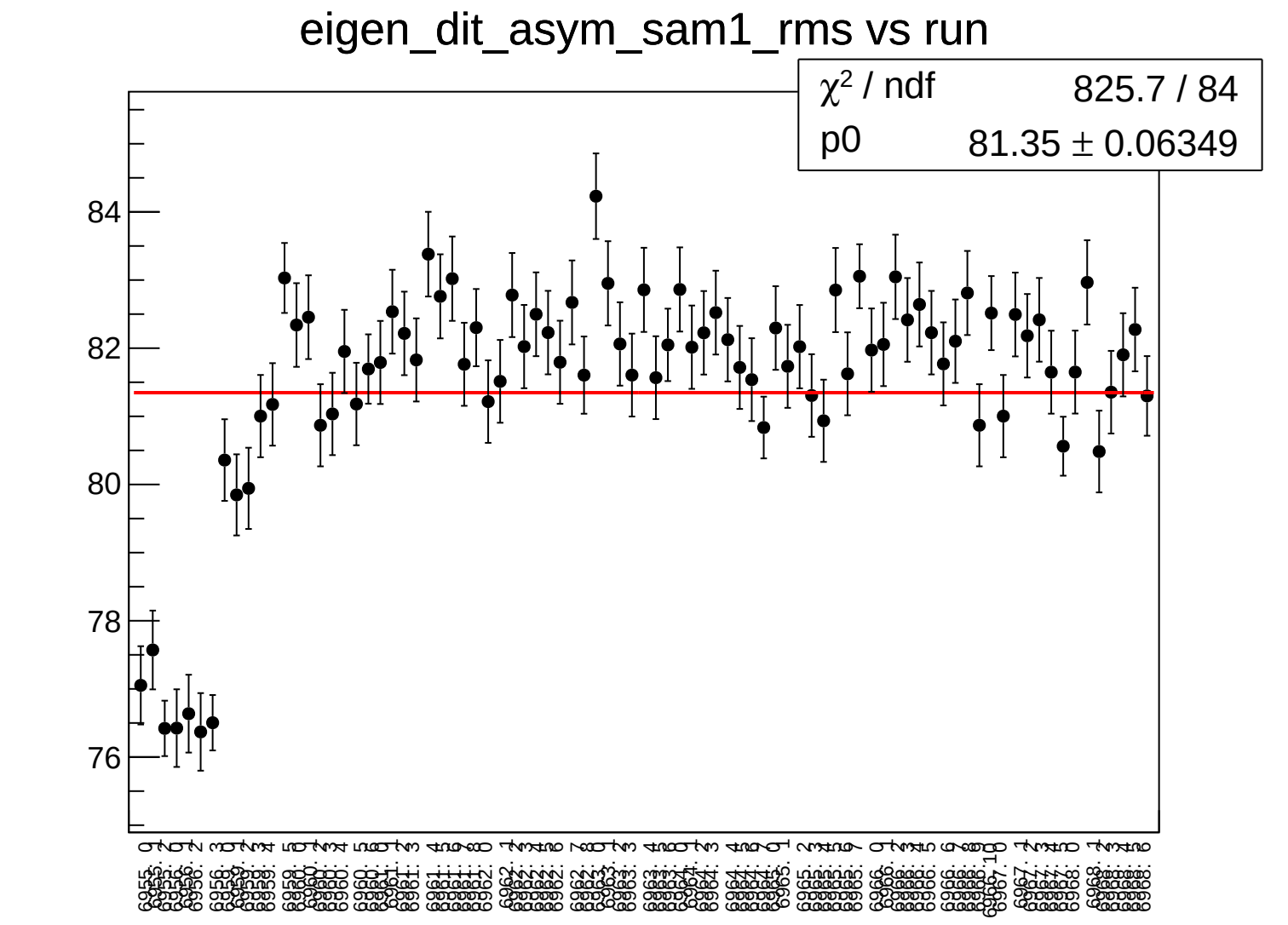

asym_sam1_dit_correction_mean vs run
χ² / ndf 88.49 / 84
p0 194.2 ± 392.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −7057
Std Dev 0
3
2
1
0
−1
−2

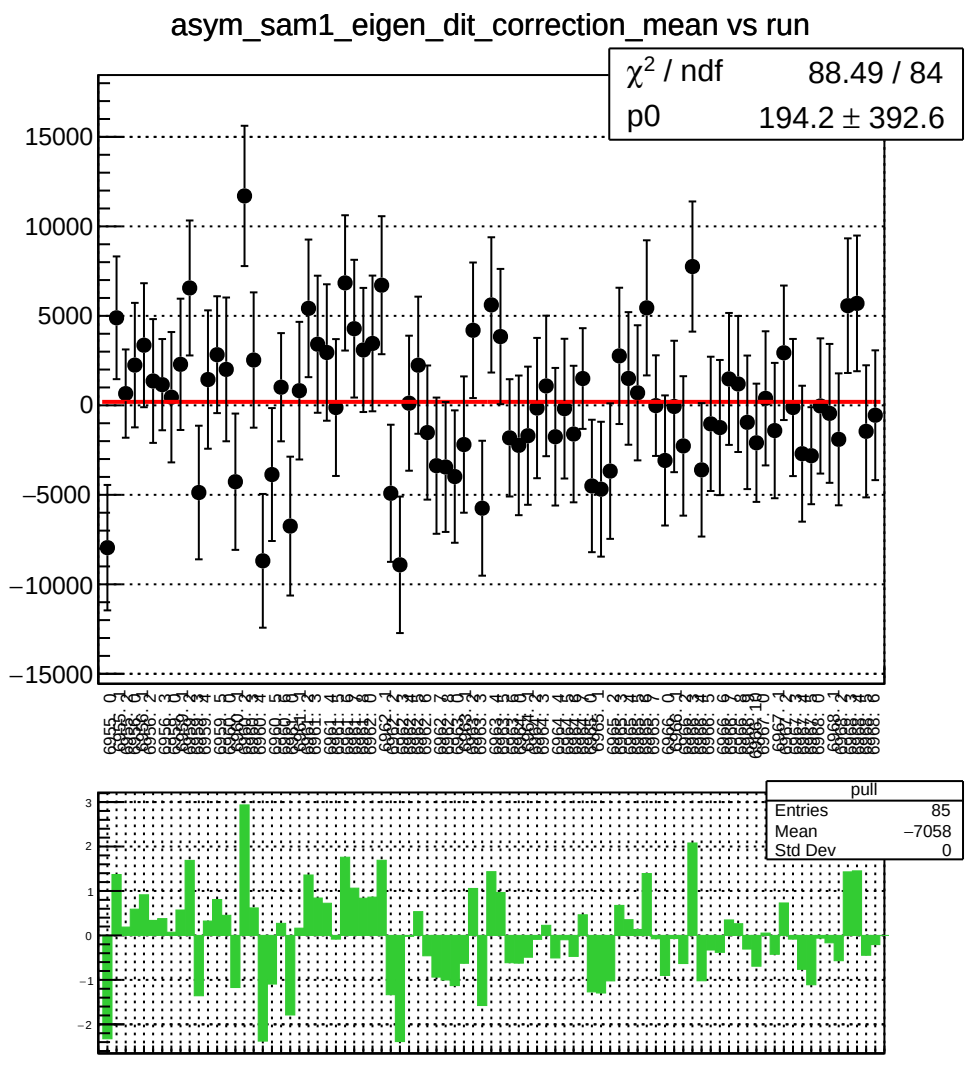

pull1D
Entries 85
Mean 0.0003567
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

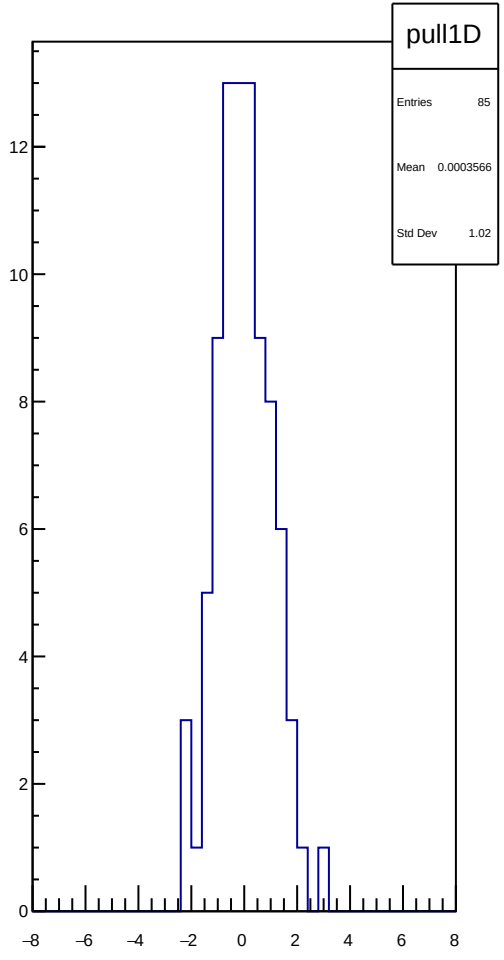

asym_sam1_dit_correction_rms vs run
χ² / ndf 1661 / 84
p0 355.6 ± 0.2776
380
370
360
350
340
330
320

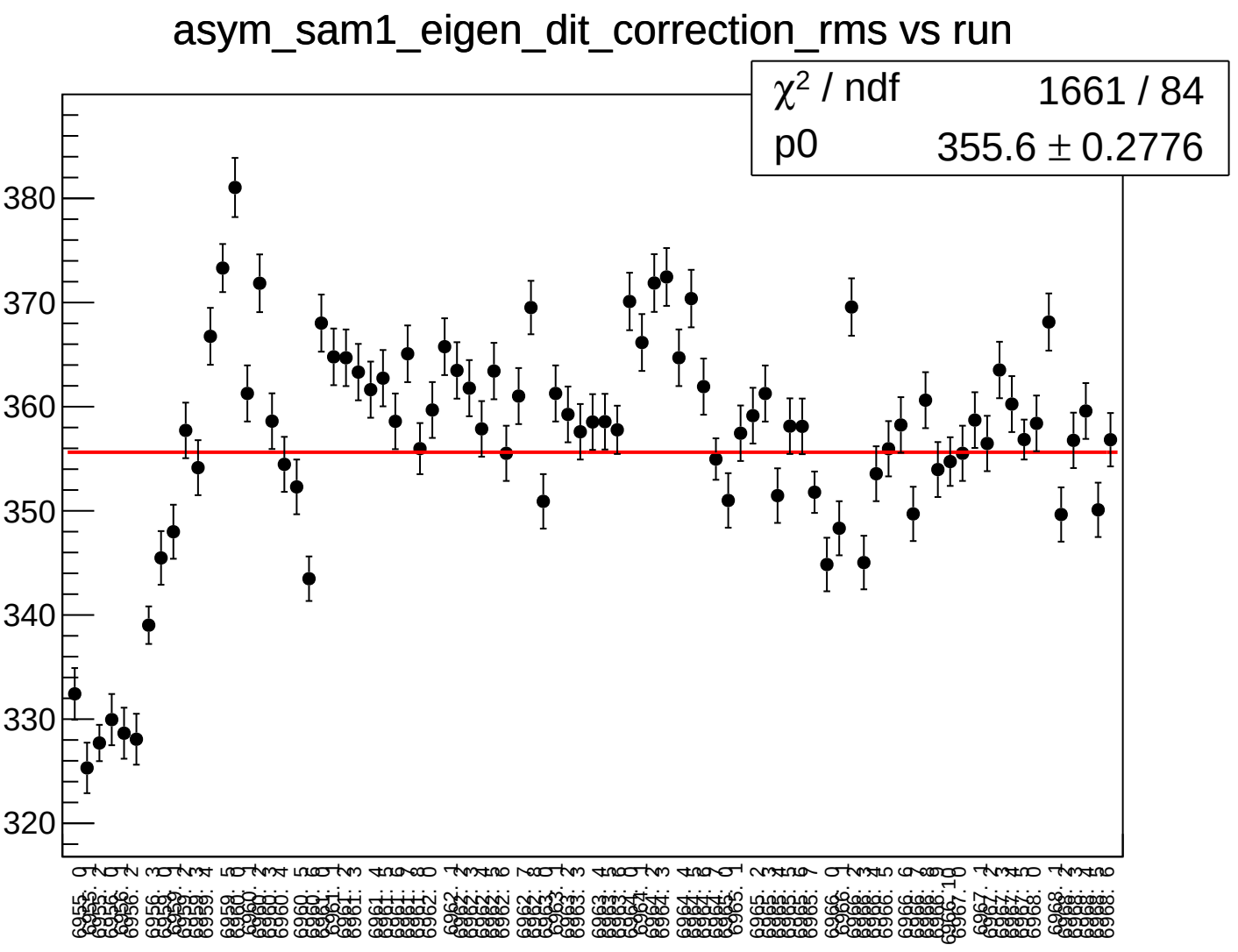

eigen_dit_asym_sam1_mean vs run
χ² / ndf 95.33 / 84
p0 88.75 ± 89.78
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 379.4
Std Dev 0
2
1
0
−1
−2

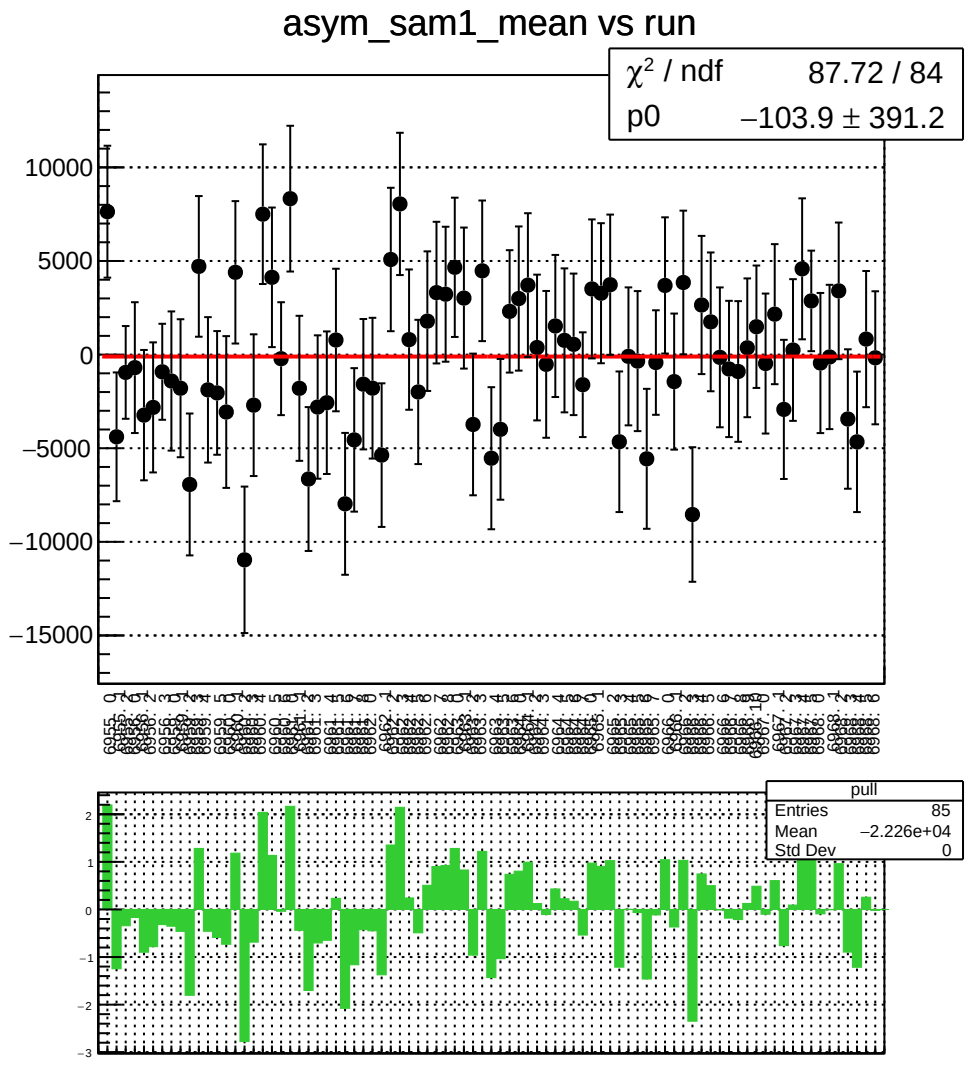

pull1D
Entries 85
Mean 0.002041
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

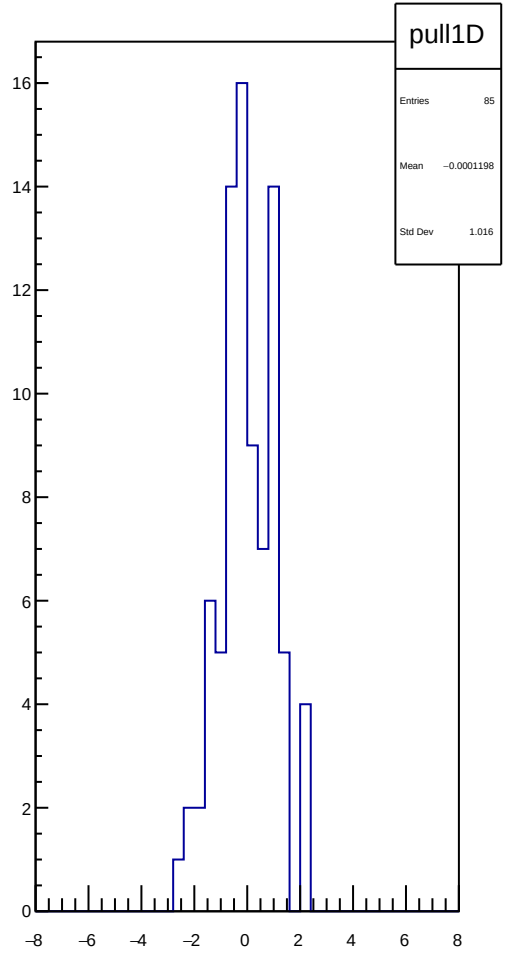

eigen_dit_asym_sam1_rms vs run
χ² / ndf 825.7 / 84
p0 81.35 ± 0.06349
84
82
80
78
76

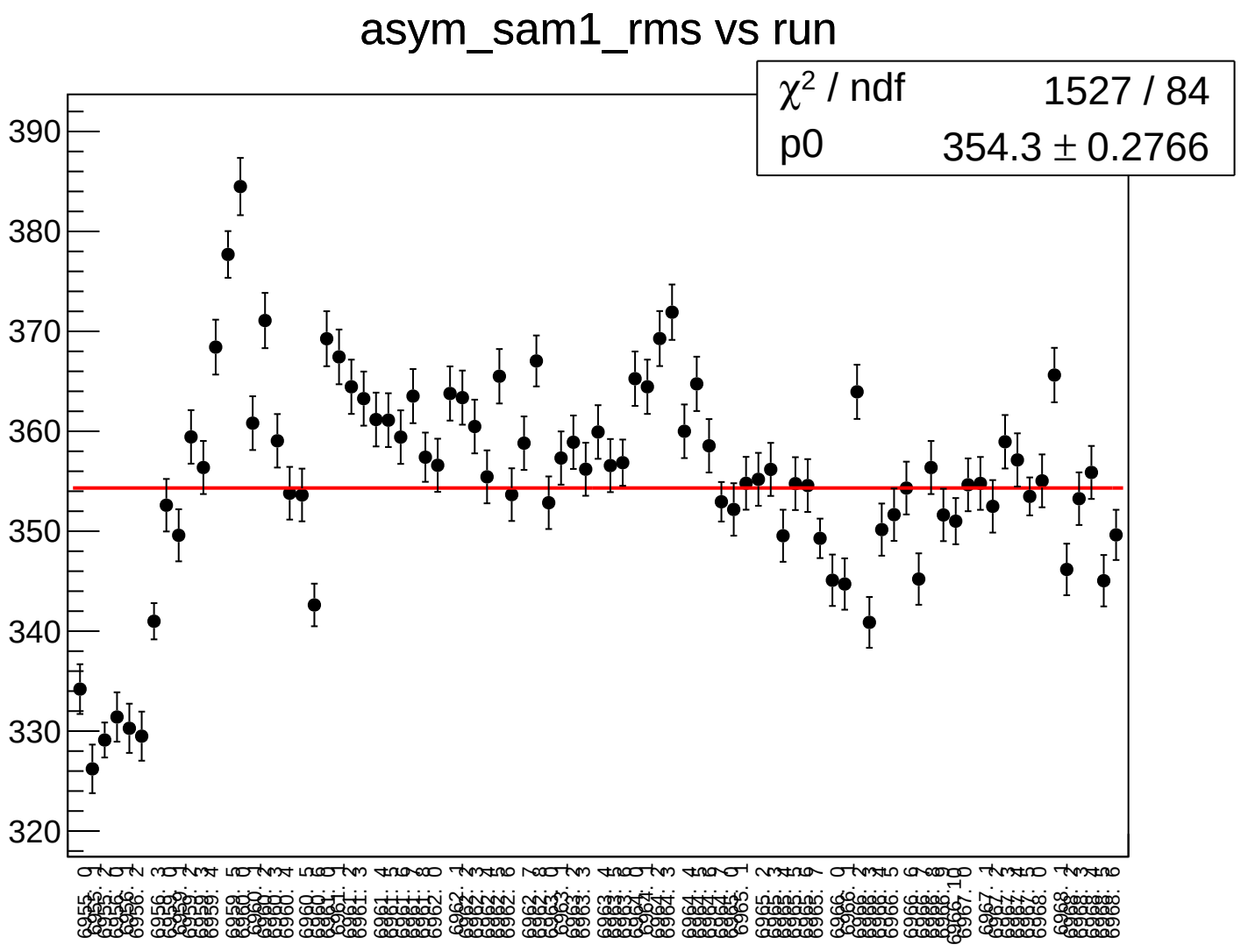

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 88.49 / 84
p0 194.2 ± 392.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −7058
Std Dev 0
3
2
1
0
−1
−2

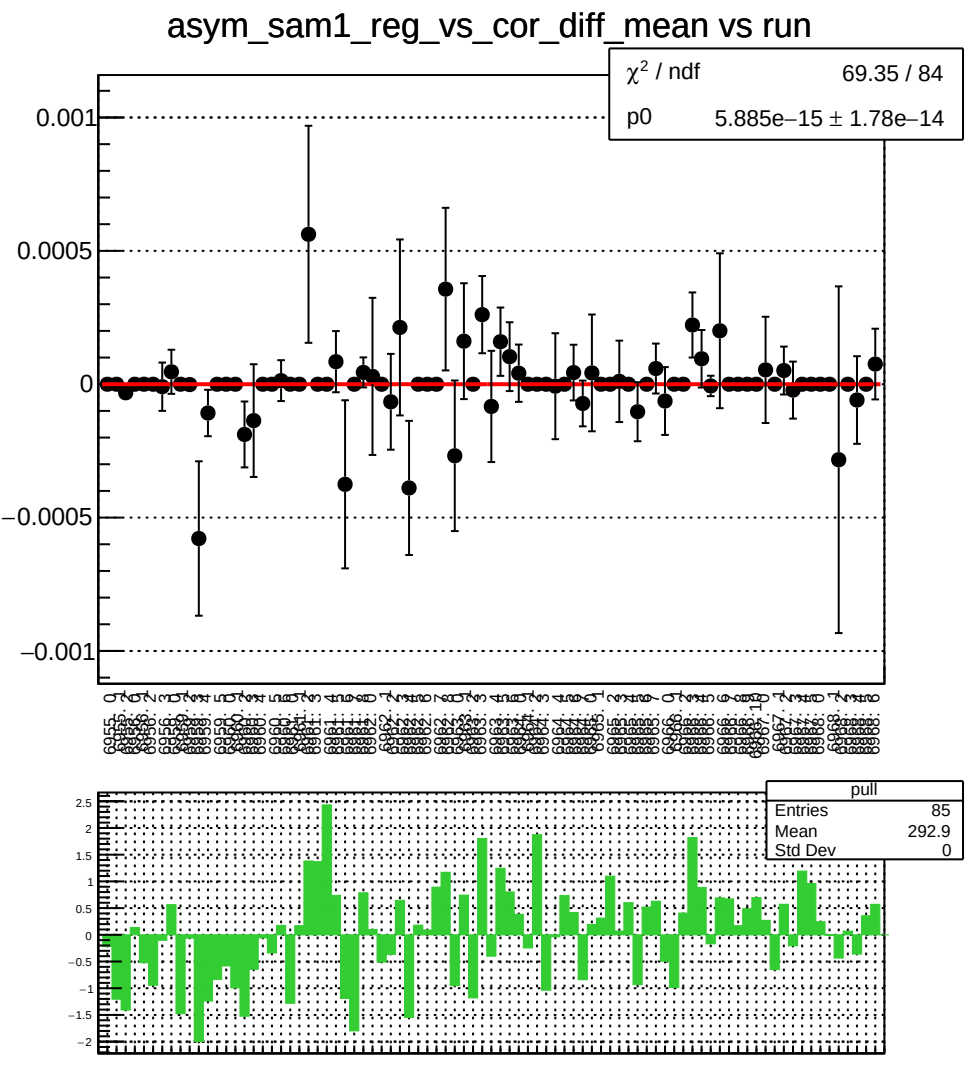

pull1D
Entries 85
Mean 0.0003566
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

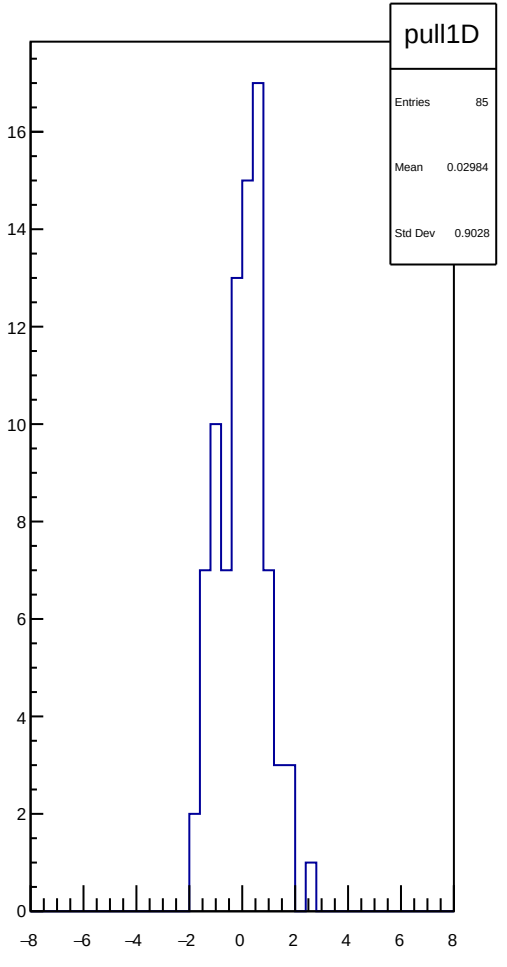

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1661 / 84
p0 355.6 ± 0.2776
380
370
360
350
340
330
320

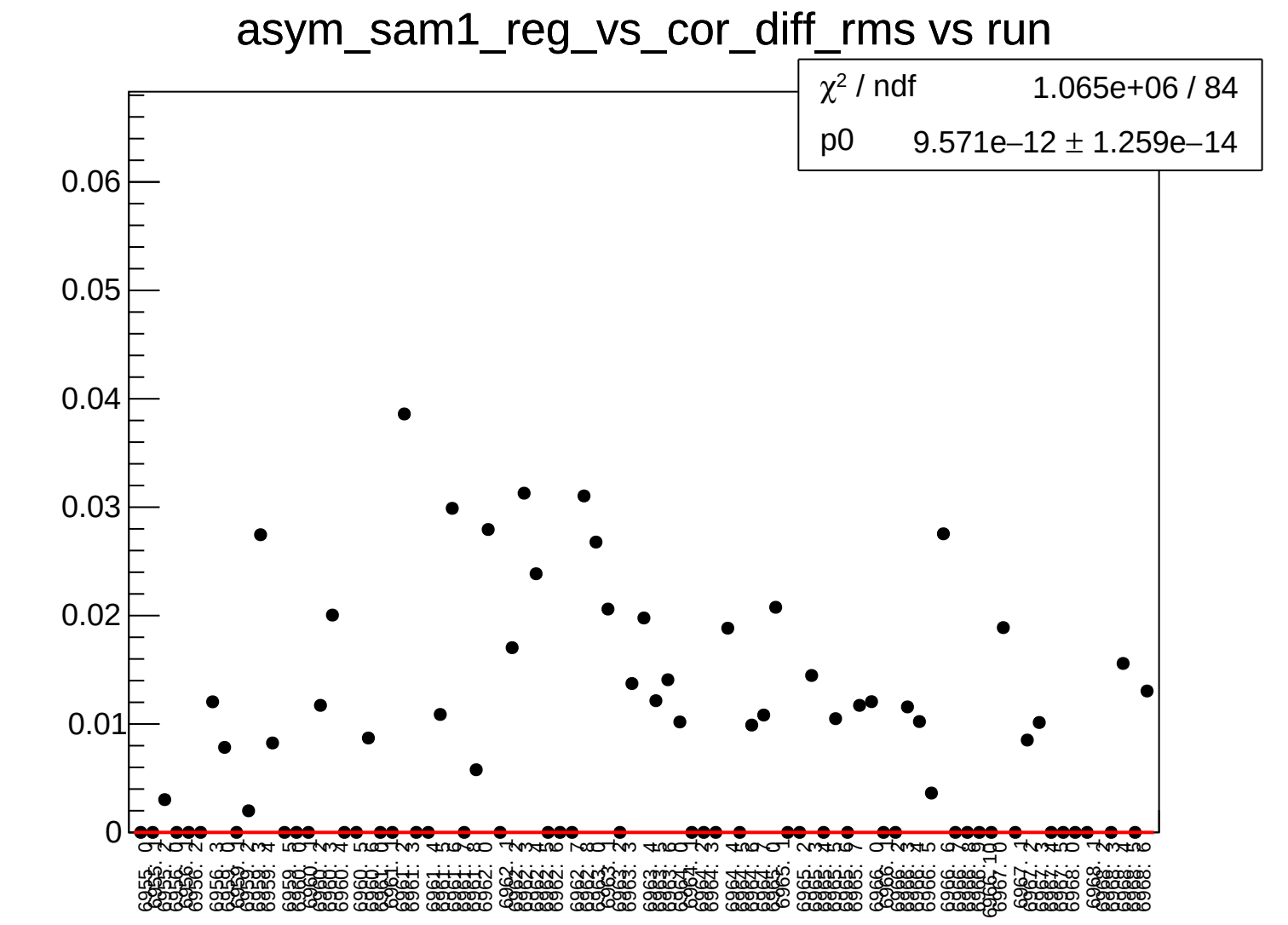

asym_sam1_mean vs run
χ² / ndf 87.72 / 84
p0 −103.9 ± 391.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −2.226e+04
Std Dev 0
2
1
0
−1
−2
−3

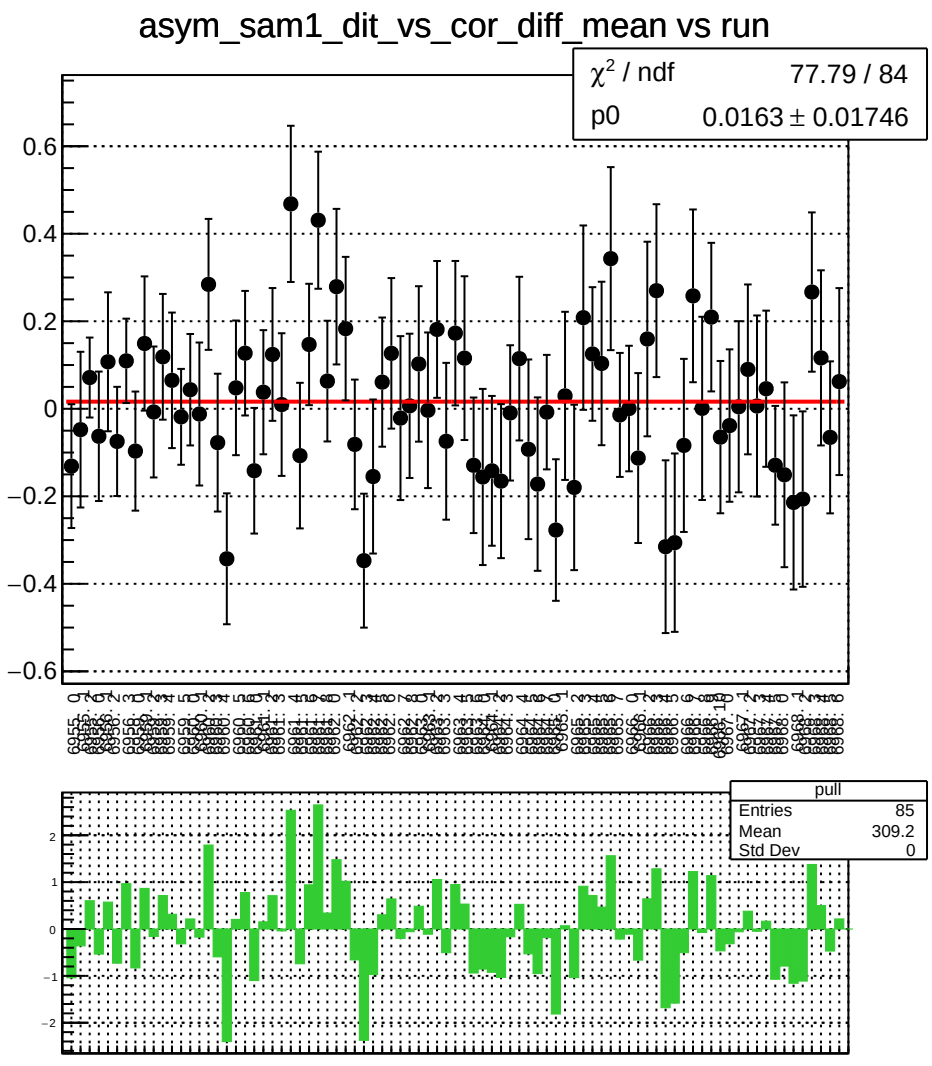

pull1D
Entries 85
Mean −0.0001198
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

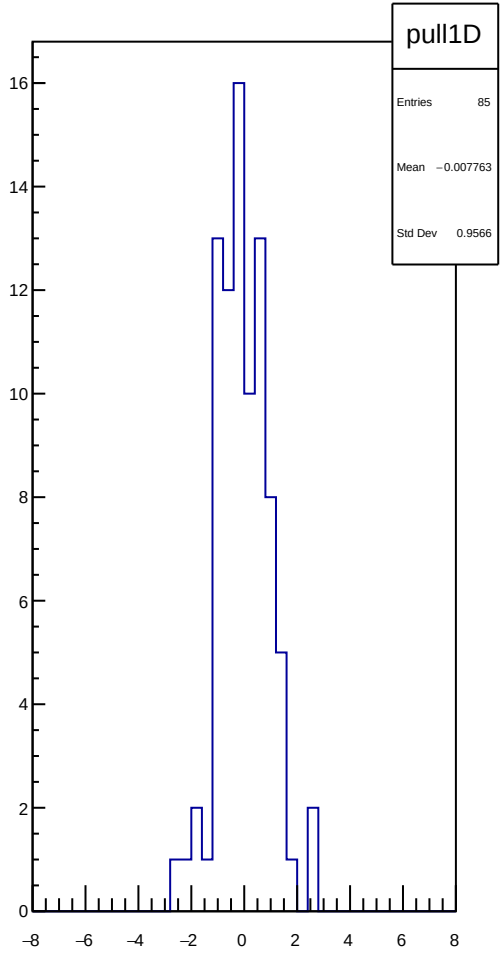

asym_sam1_rms vs run
χ² / ndf 1527 / 84
p0 354.3 ± 0.2766
390
380
370
360
350
340
330
320

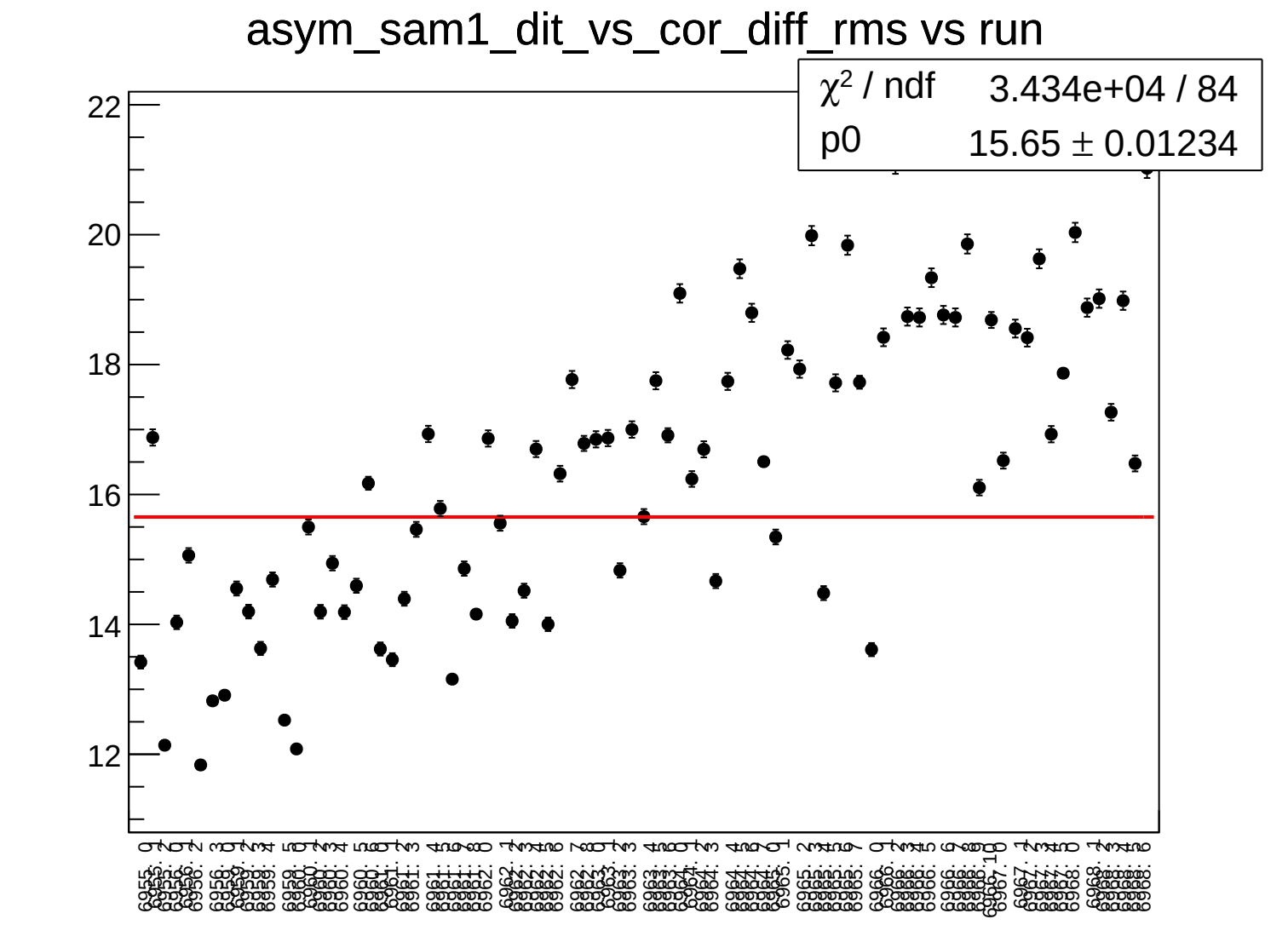

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 69.35 / 84
p0 5.885e−15 ± 1.78e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 292.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

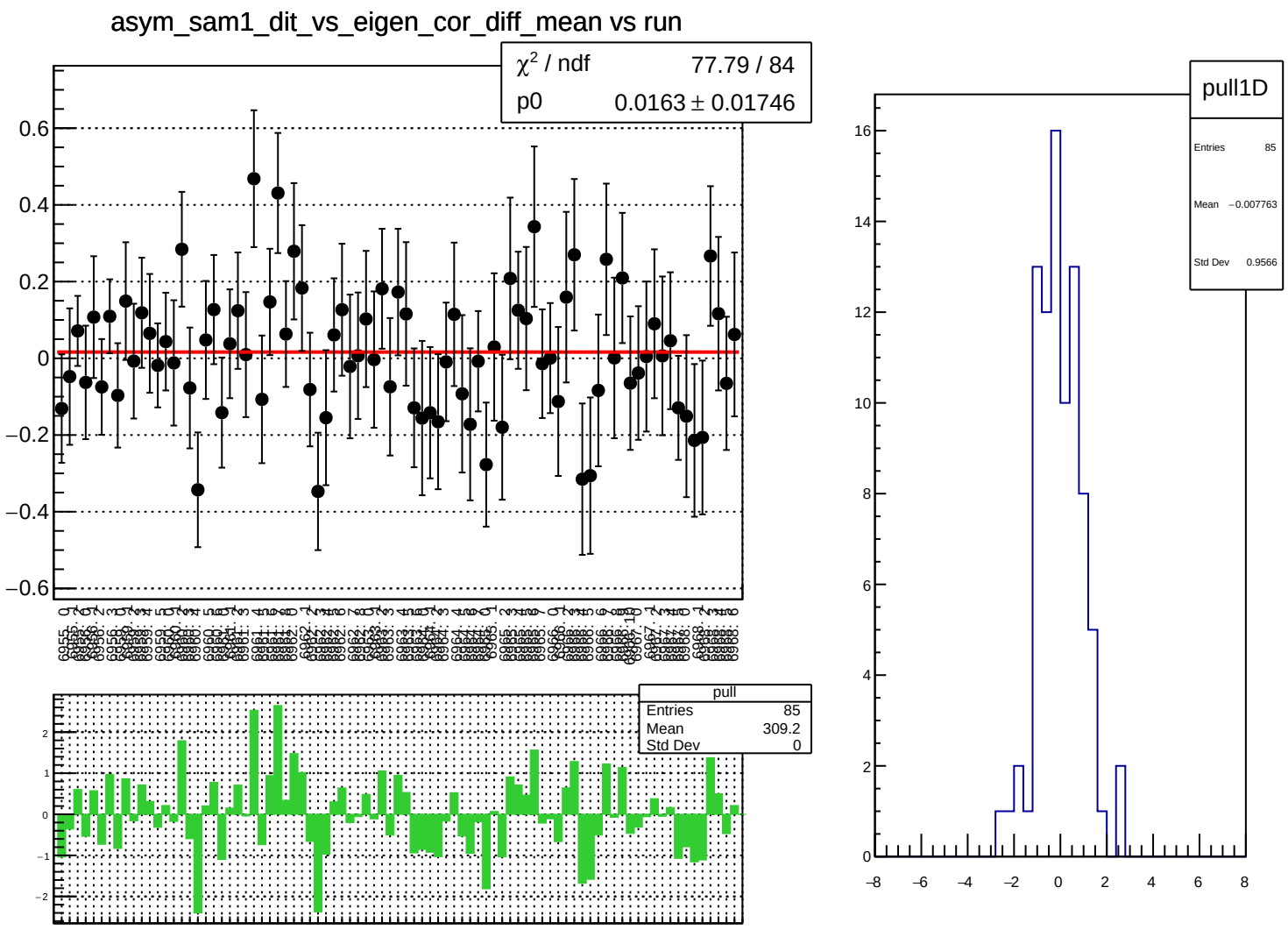

pull1D
Entries 85
Mean 0.02984
Std Dev 0.9028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

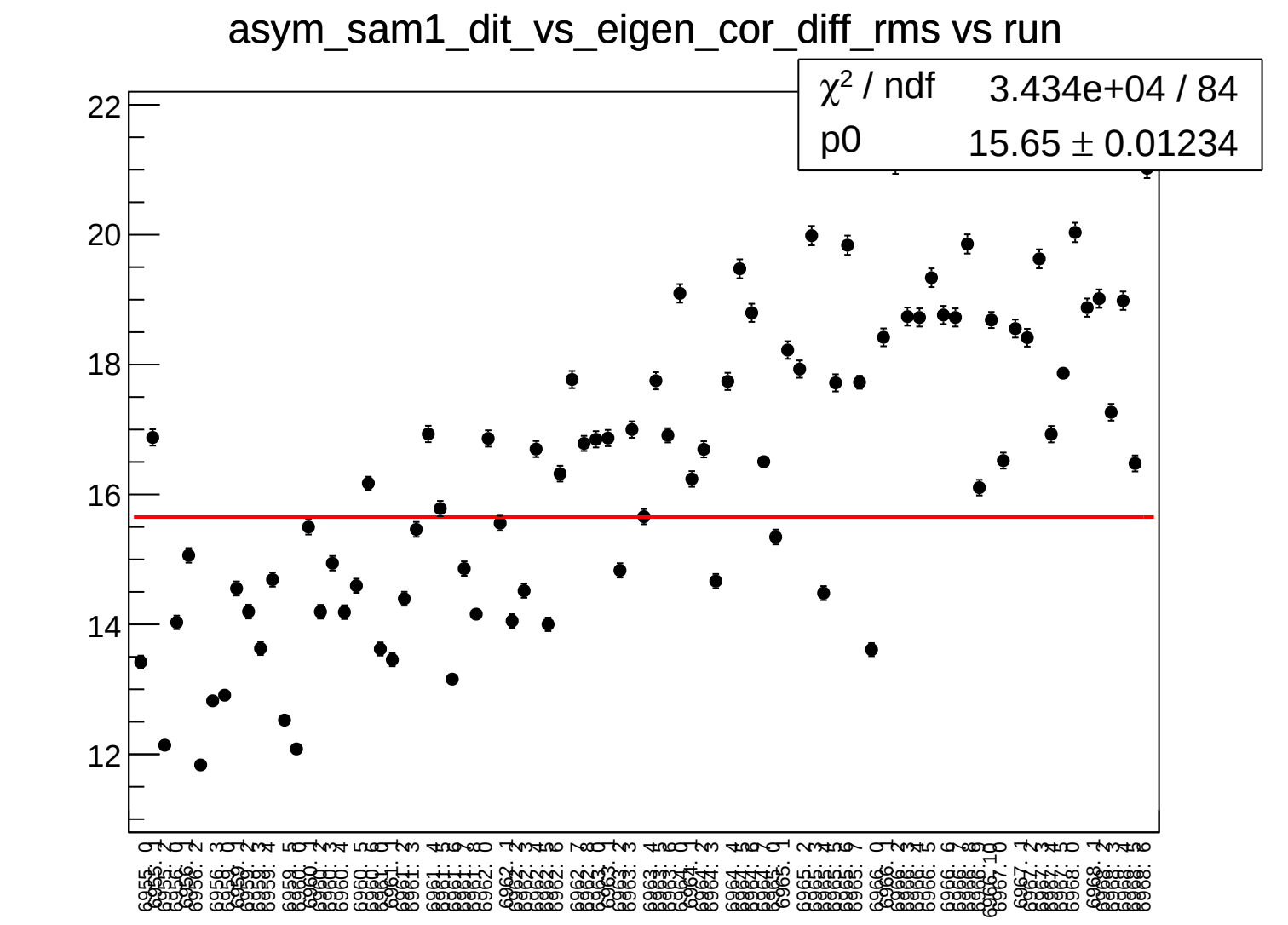

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 84
p0 9.571e−12 ± 1.259e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

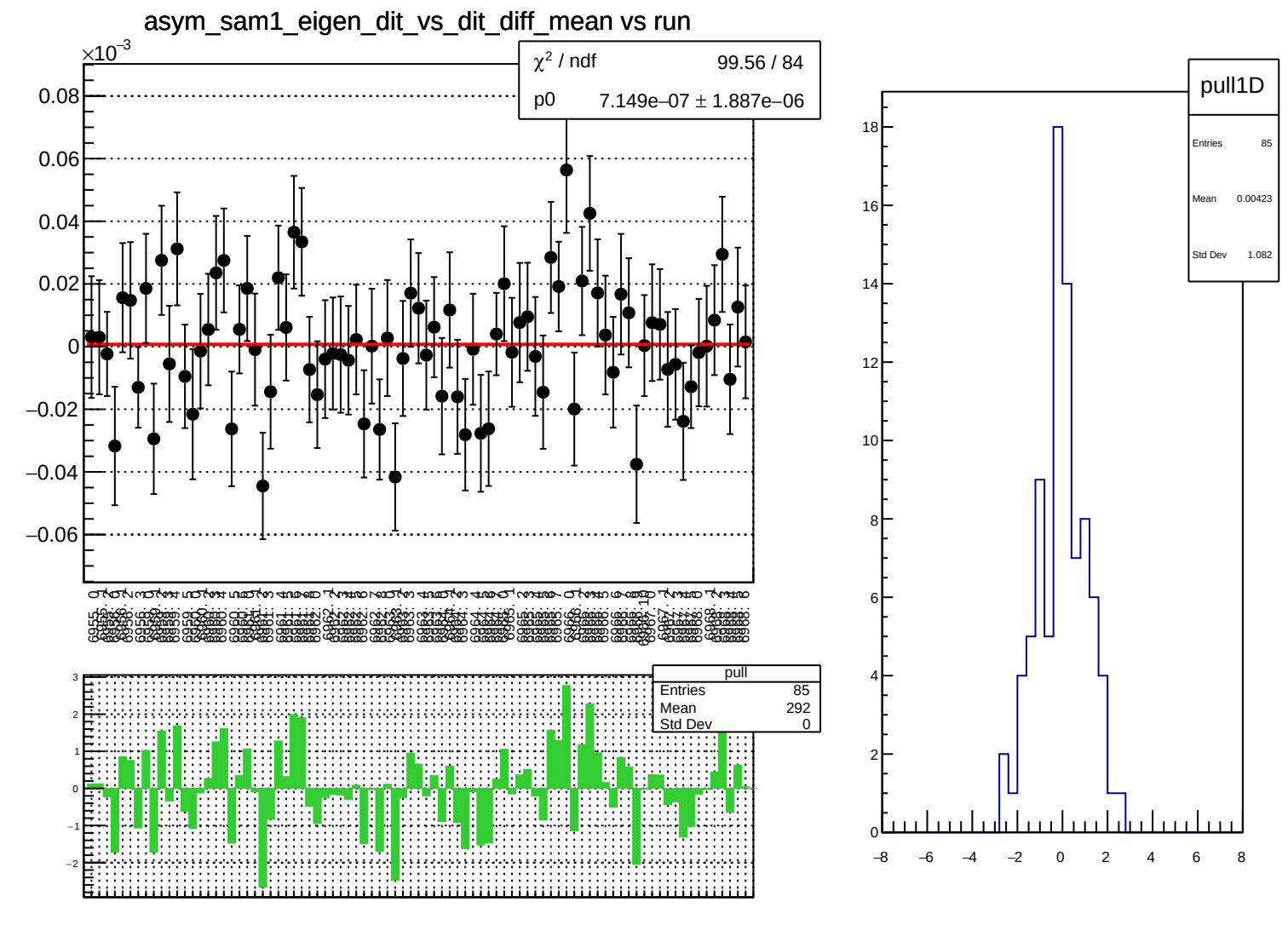

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 77.79 / 84
p0 0.0163 ± 0.01746
pull
Entries 85
Mean 309.2
Std Dev 0

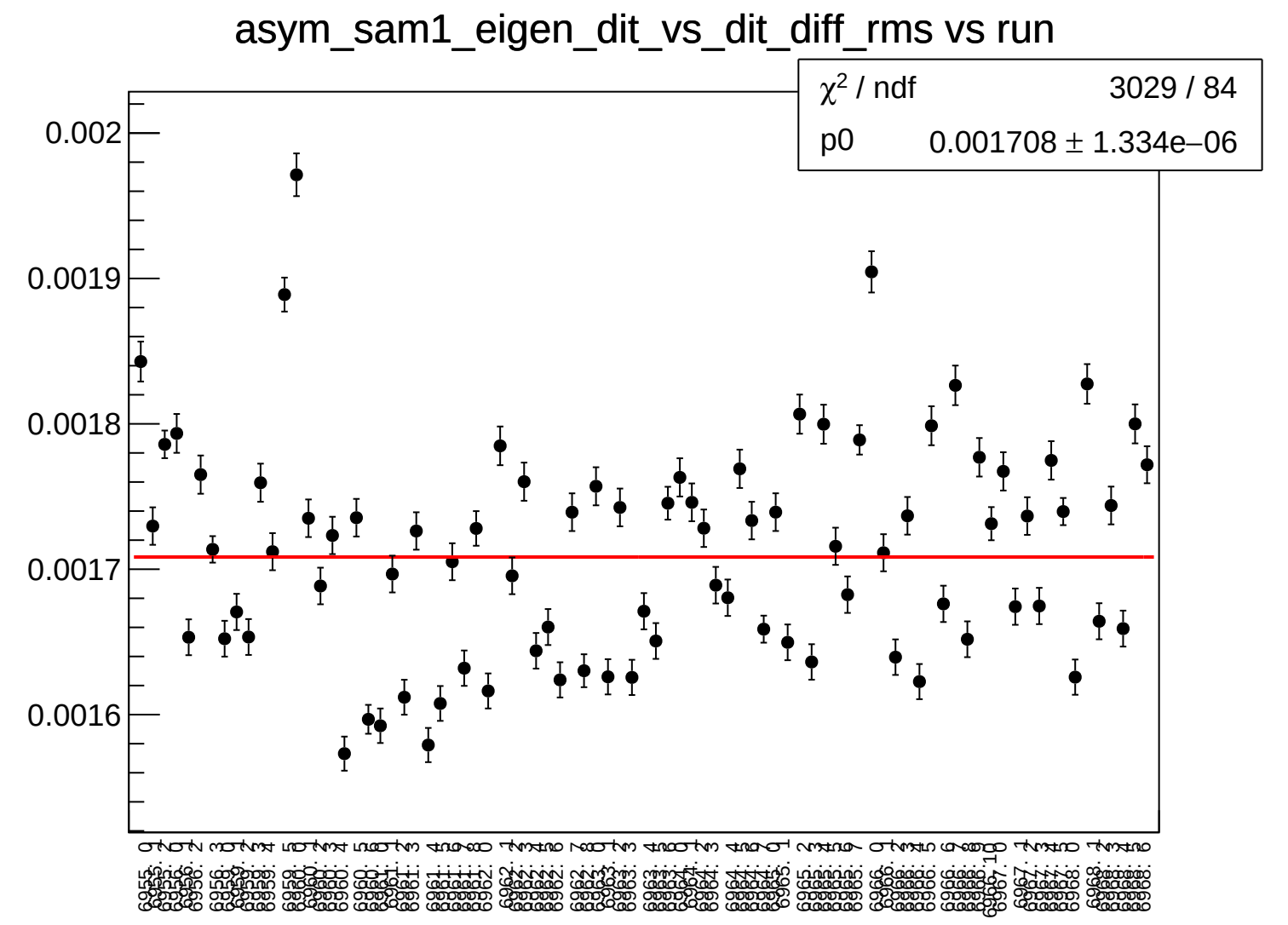

pull1D
Entries 85
Mean −0.007763
Std Dev 0.9566

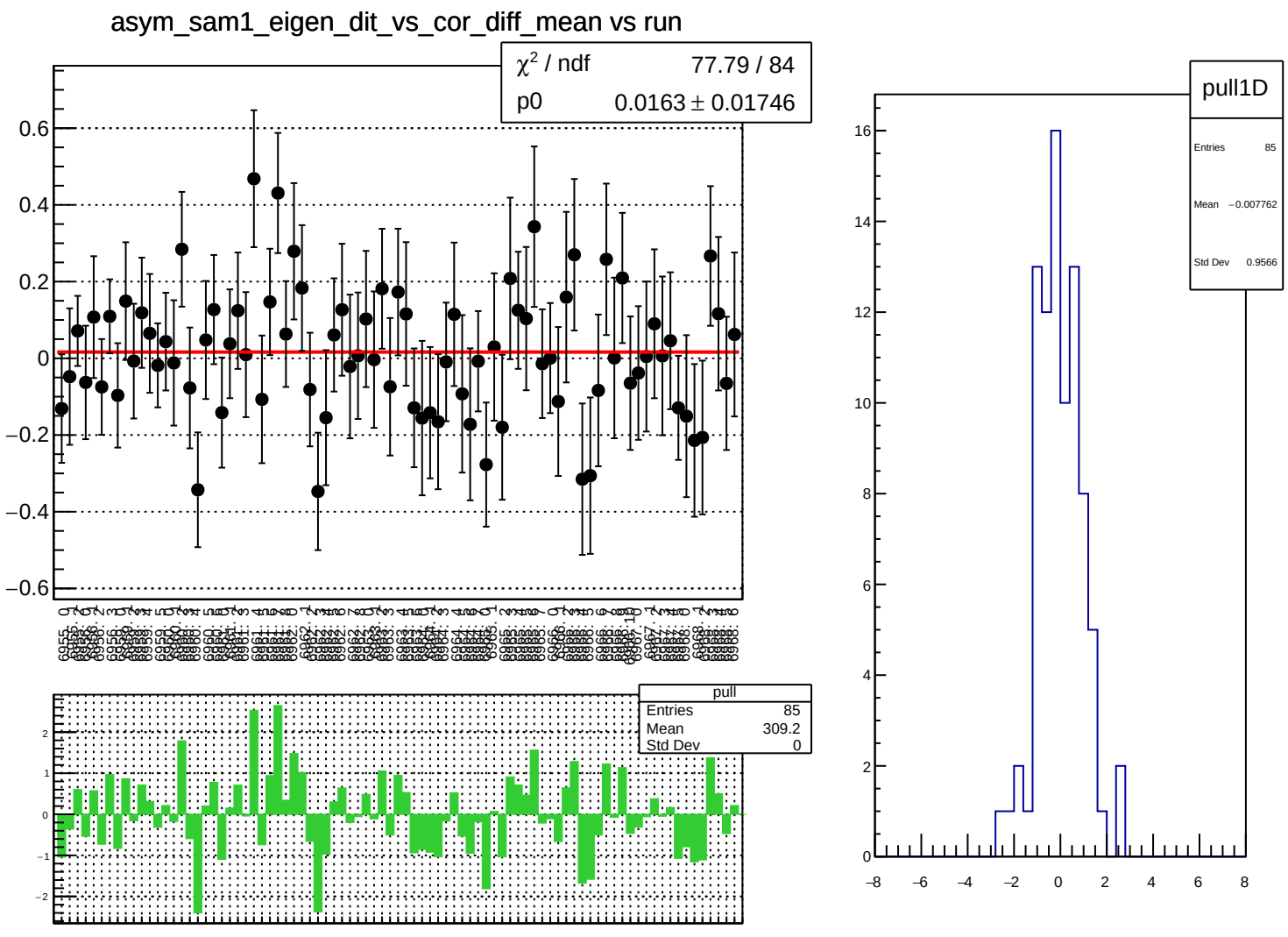

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.434e+04 / 84
p0 15.65 ± 0.01234
22
20
18
16
14
12

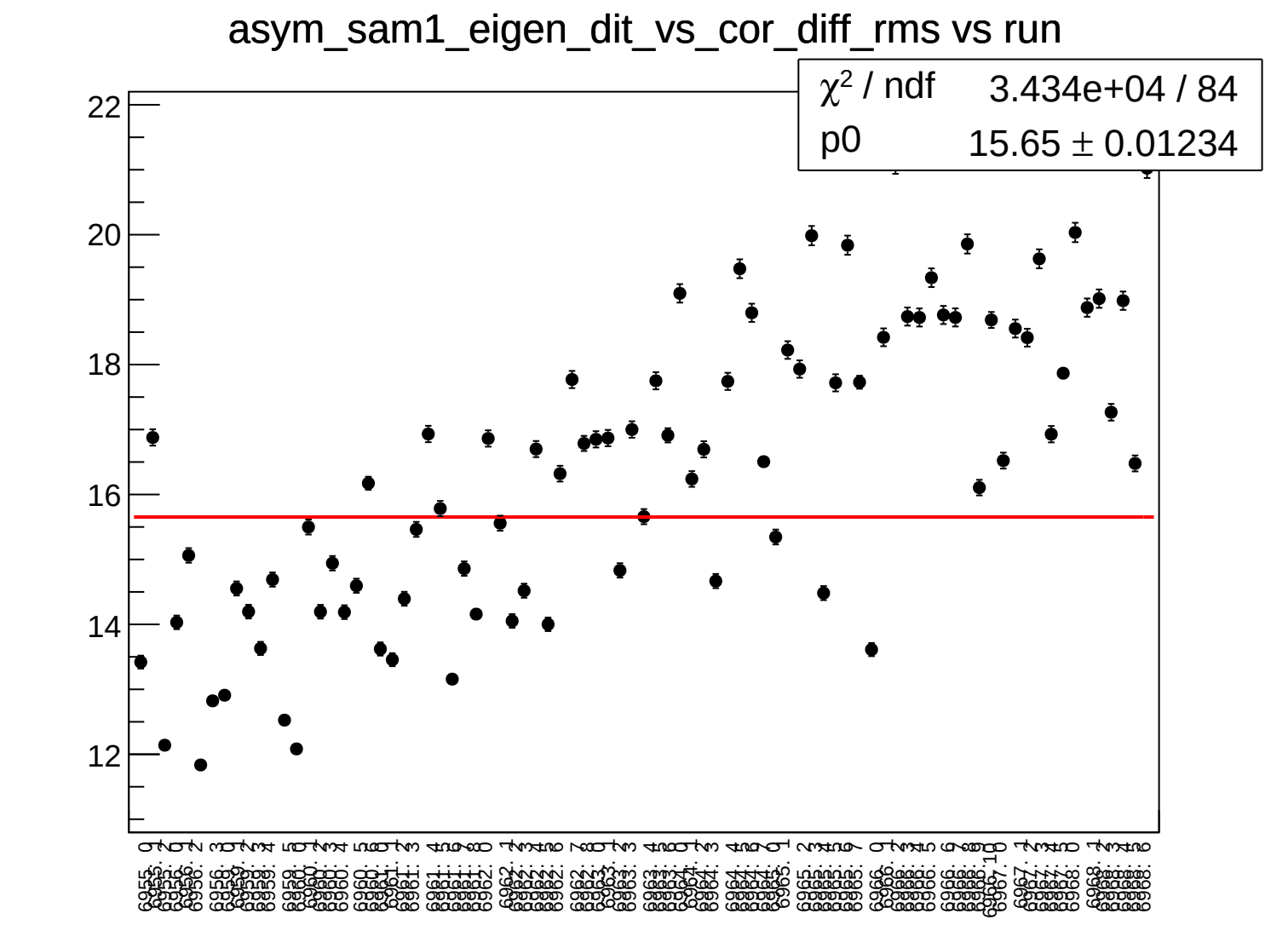

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.79 / 84
p0 0.0163 ± 0.01746
pull
Entries 85
Mean 309.2
Std Dev 0
pull1D
Entries 85
Mean −0.007763
Std Dev 0.9566

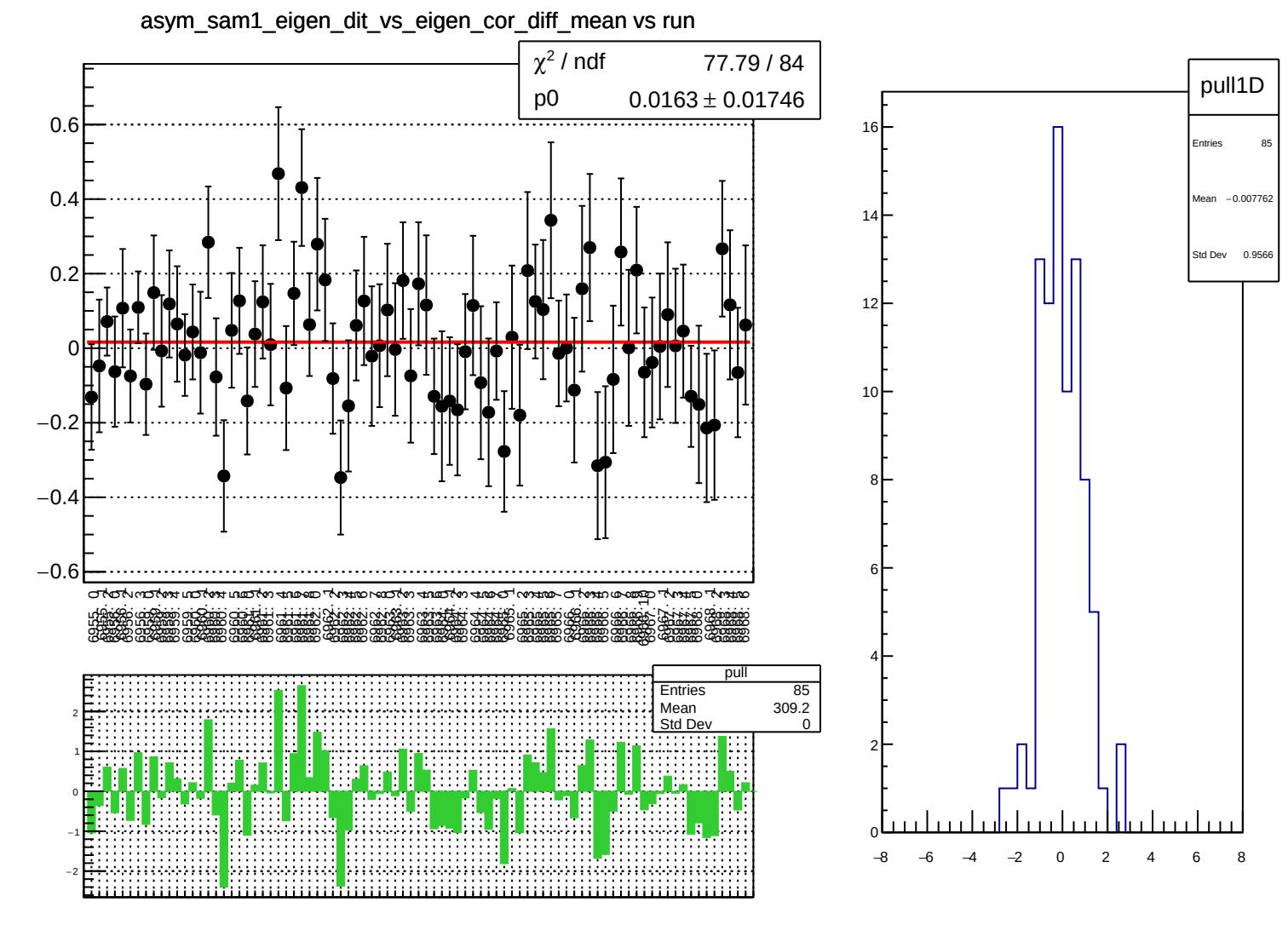

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.434e+04 / 84
p0 15.65 ± 0.01234
22
20
18
16
14
12

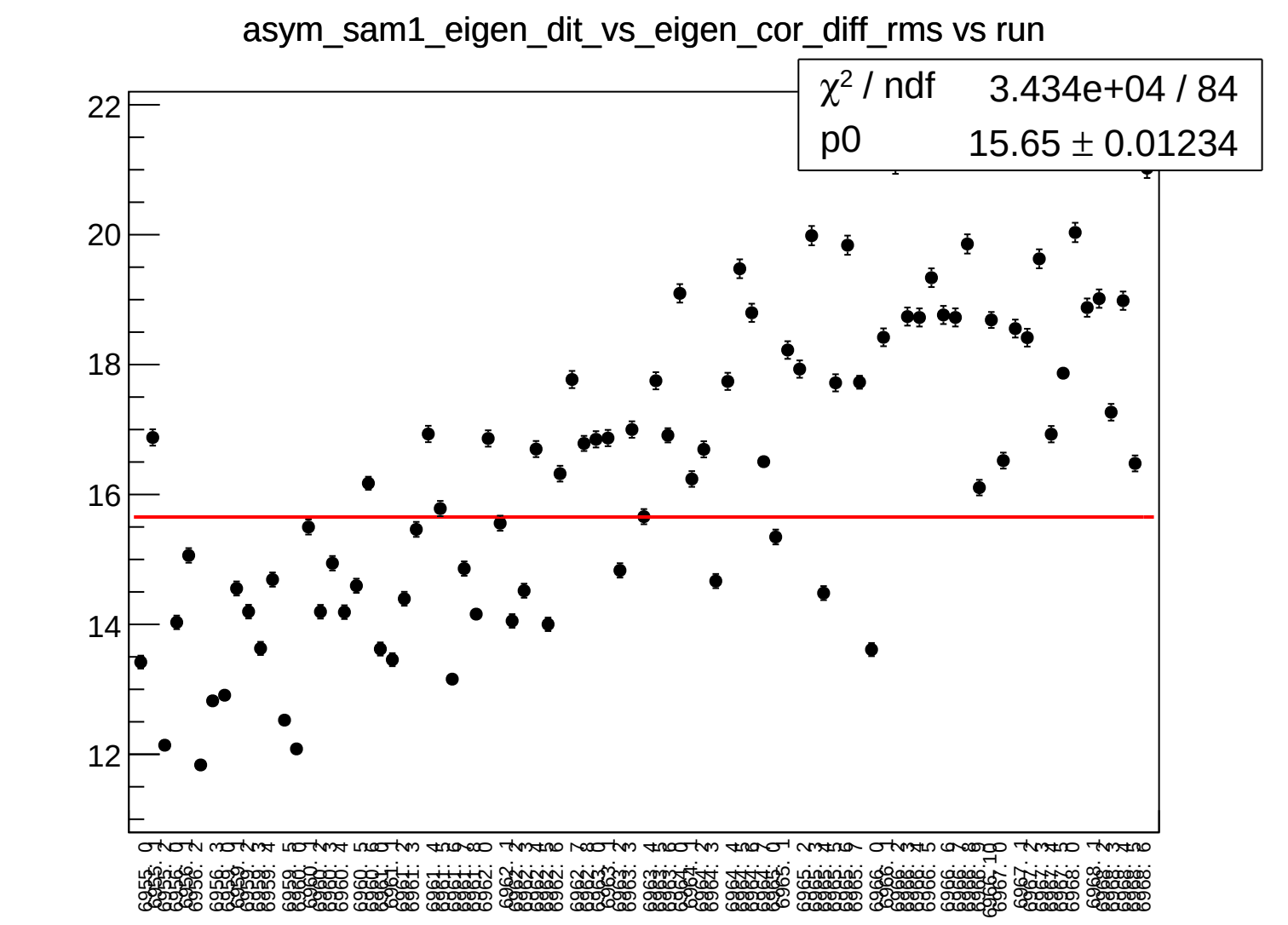

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.56 / 84
p0 7.149e−07 ± 1.887e−06
pull
Entries 85
Mean 292
Std Dev 0
pull1D
Entries 85
Mean 0.00423
Std Dev 1.082

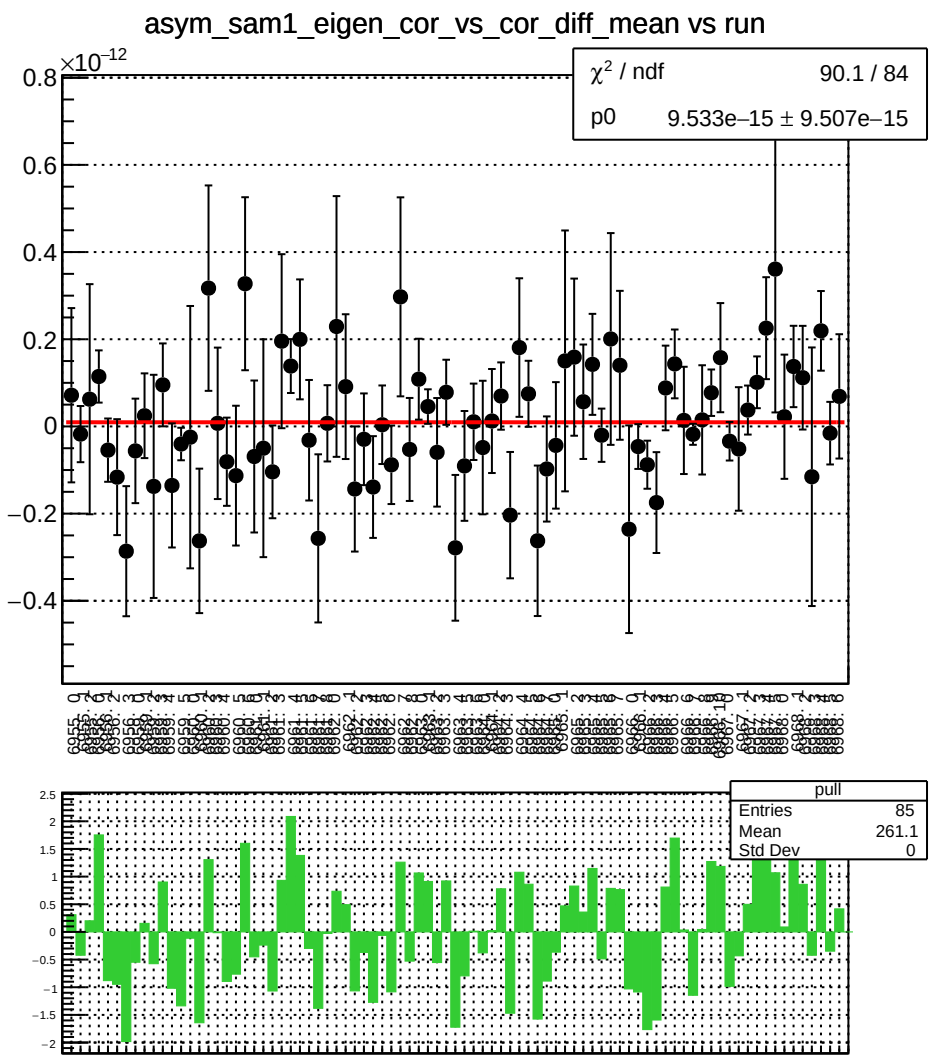

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3029 / 84
p0 0.001708 ± 1.334e−06
0.002
0.0019
0.0018
0.0017
0.0016

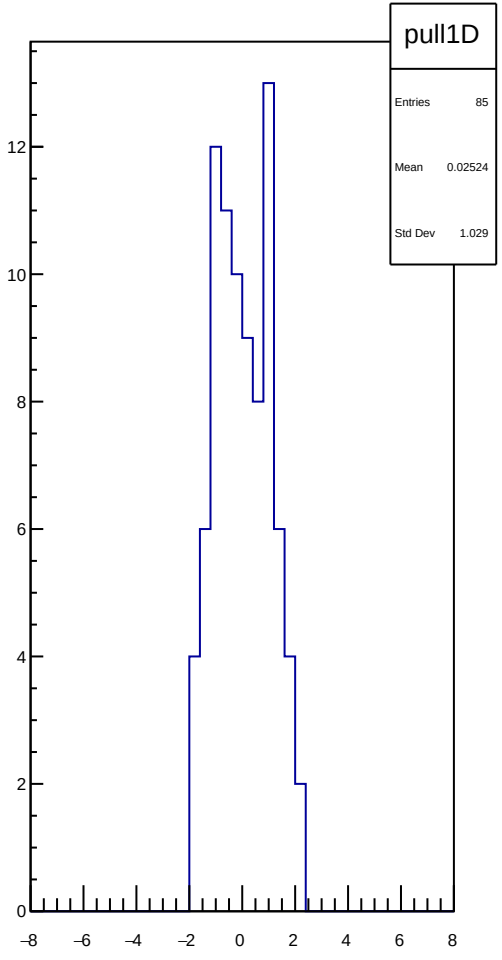

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.79 / 84
p0 0.0163 ± 0.01746
pull
Entries 85
Mean 309.2
Std Dev 0
pull1D
Entries 85
Mean −0.007762
Std Dev 0.9566

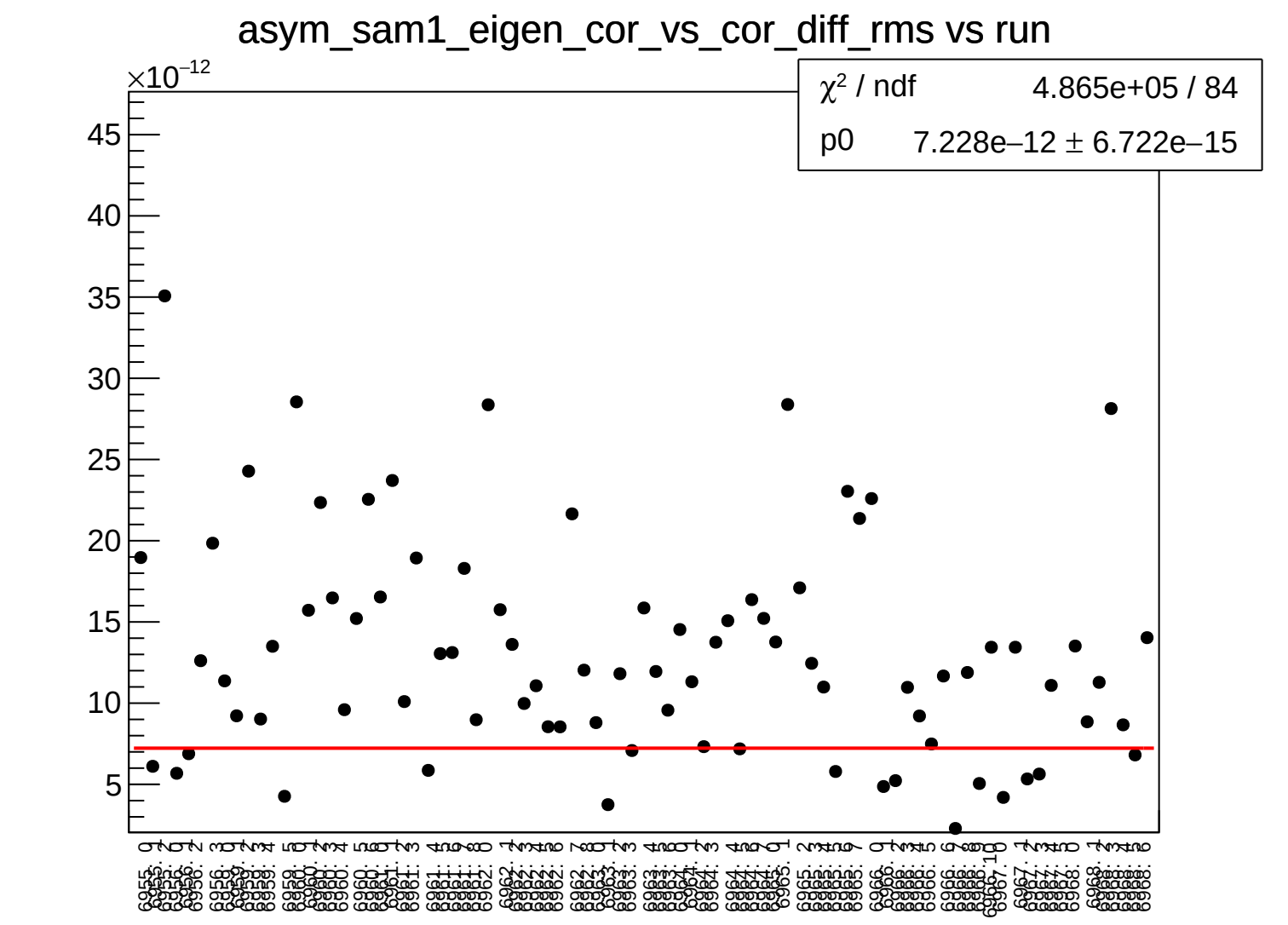

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.434e+04 / 84
p0 15.65 ± 0.01234
22
20
18
16
14
12

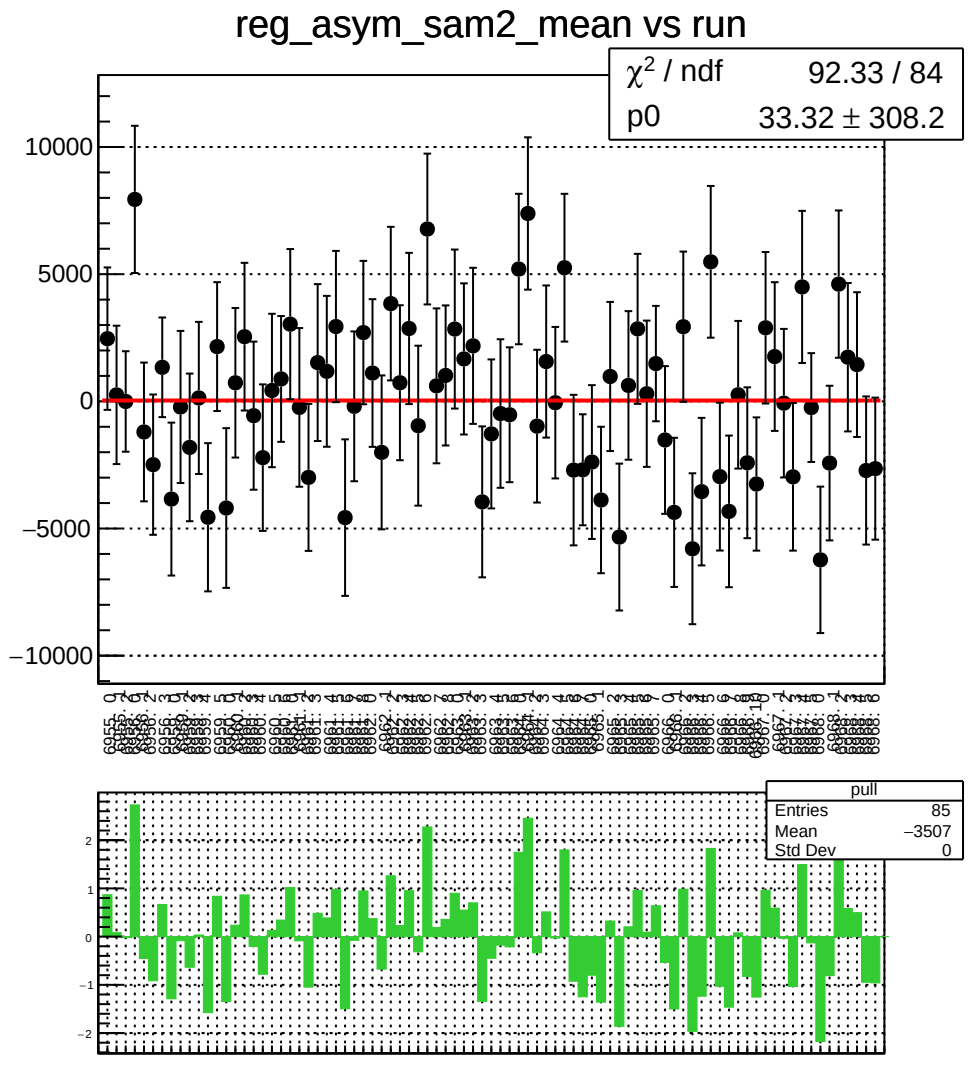

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.79 / 84
p0 0.0163 ± 0.01746
pull
Entries 85
Mean 309.2
Std Dev 0
pull1D
Entries 85
Mean −0.007762
Std Dev 0.9566

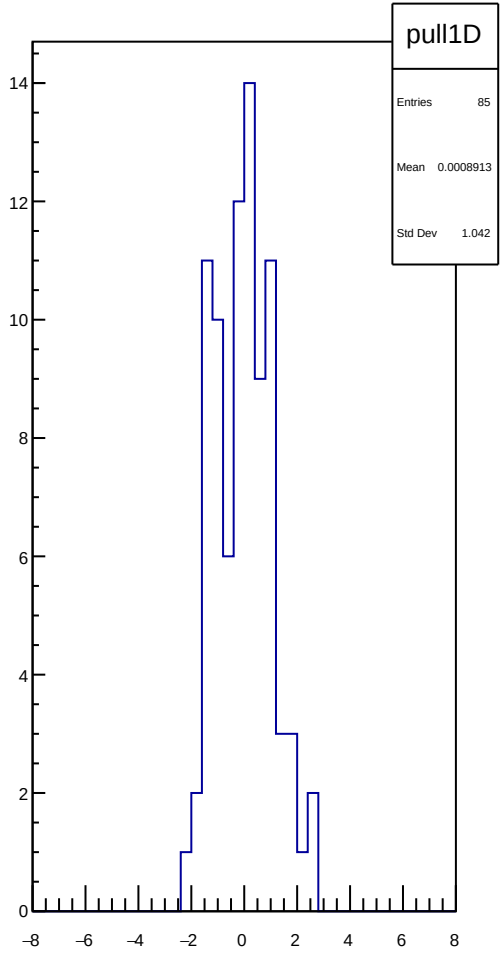

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.434e+04 / 84
p0 15.65 ± 0.01234
22
20
18
16
14
12

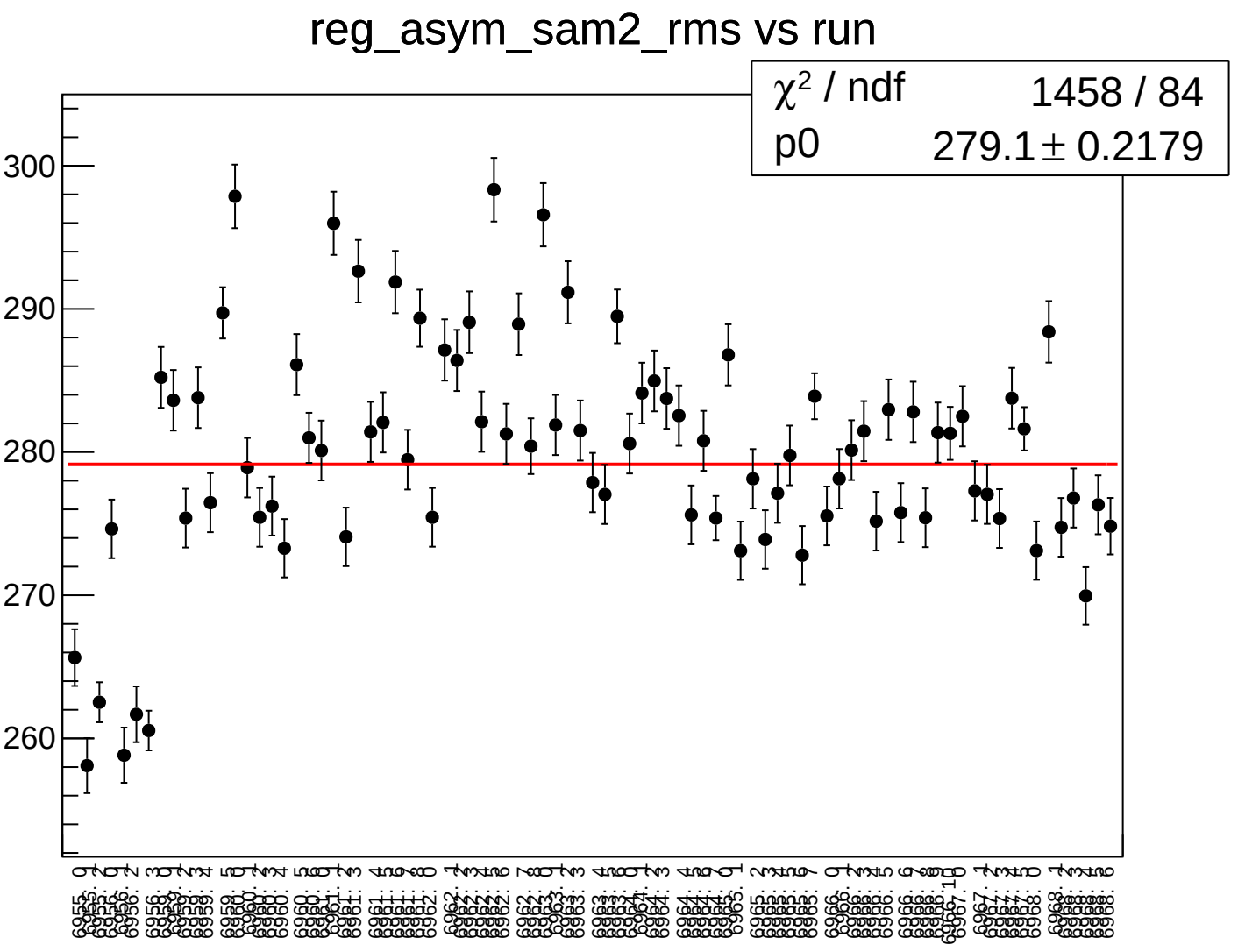

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.1 / 84
p0 9.533e−15 ± 9.507e−15
pull
Entries 85
Mean 261.1
Std Dev 0

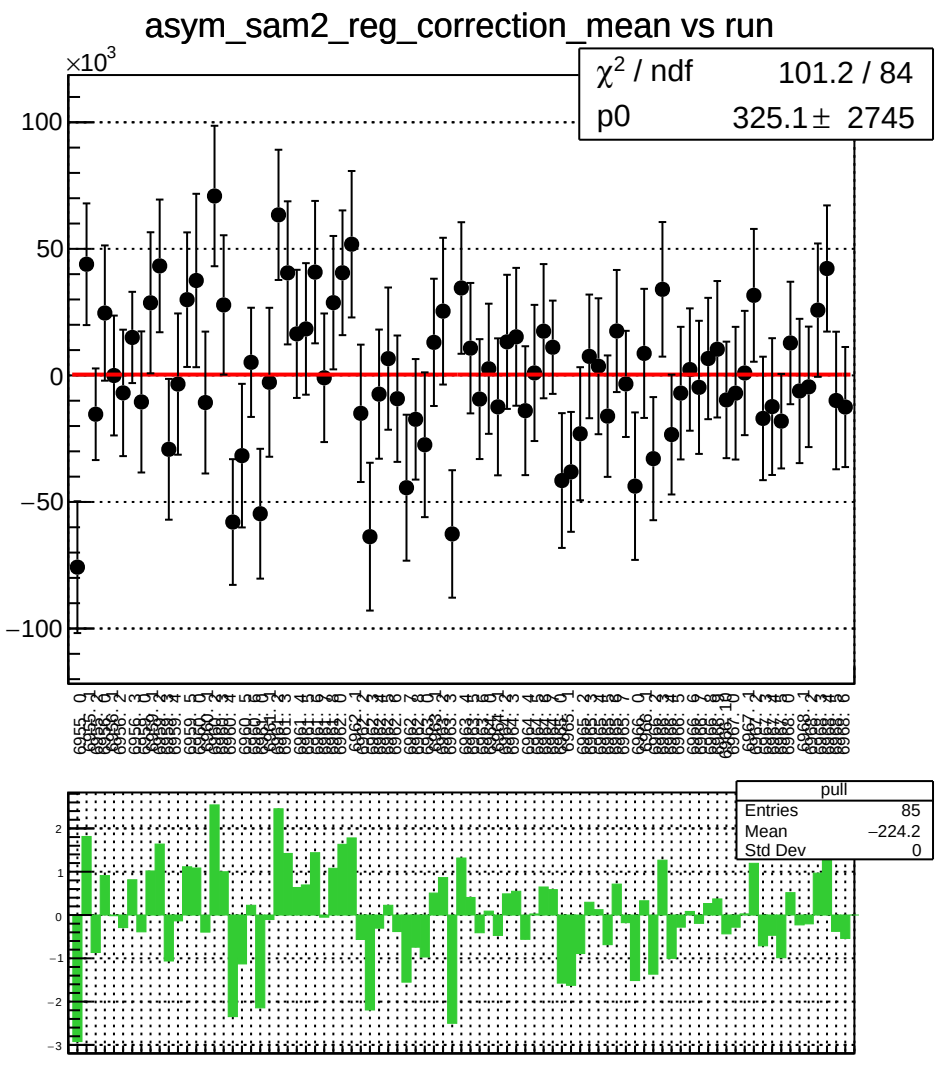

pull1D
Entries 85
Mean 0.02524
Std Dev 1.029

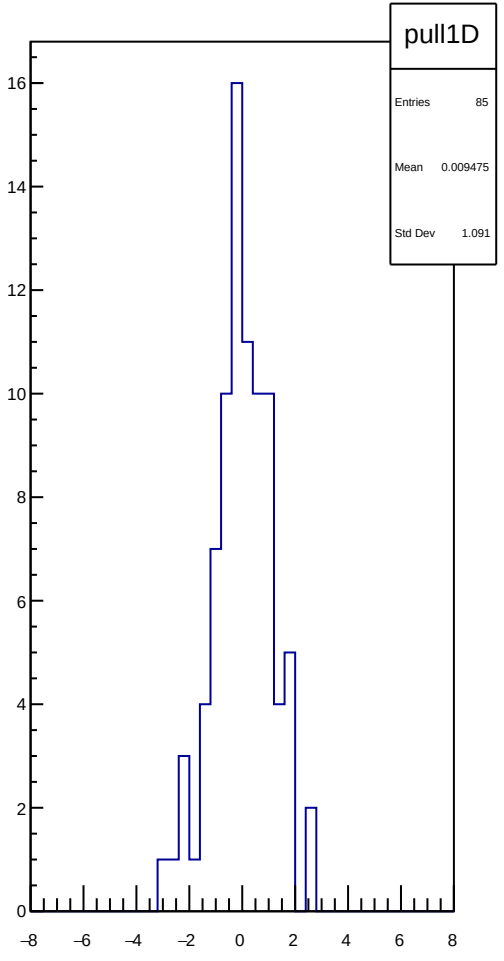

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.865e+05 / 84
p0 7.228e−12 ± 6.722e−15
45
40
35
30
25
20
15
10
5

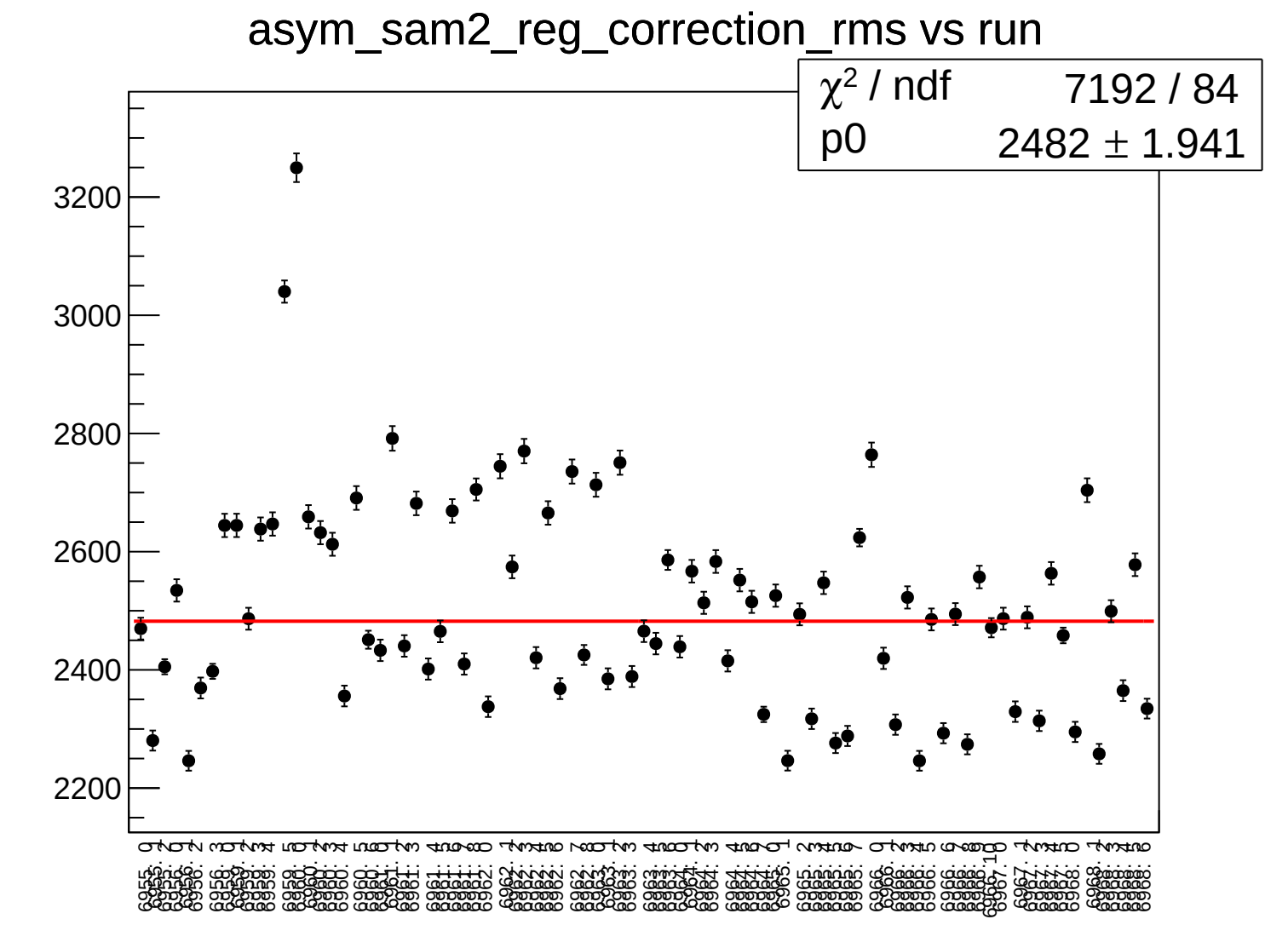

reg_asym_sam2_mean vs run
χ² / ndf 92.33 / 84
p0 33.32 ± 308.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −3507
Std Dev 0
2
1
0
−1
−2

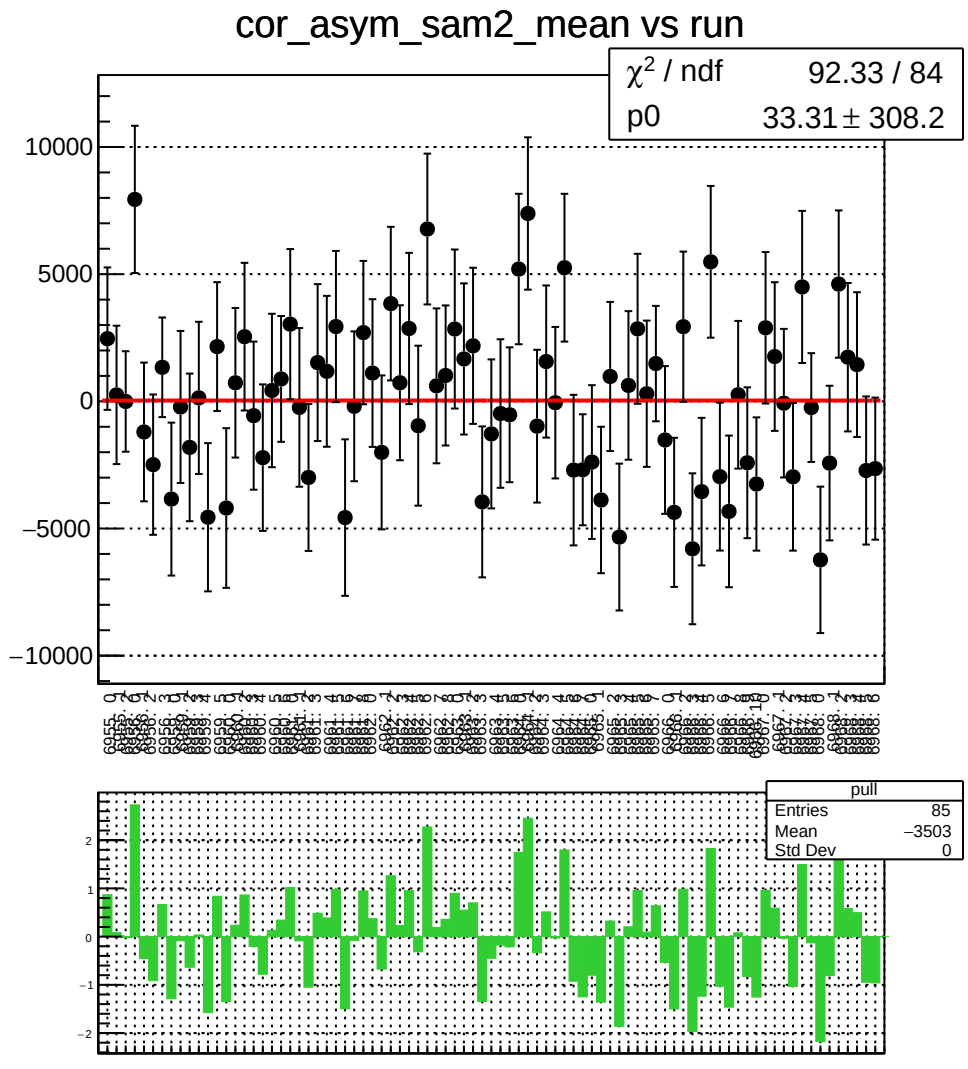

pull1D
Entries 85
Mean 0.0008913
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

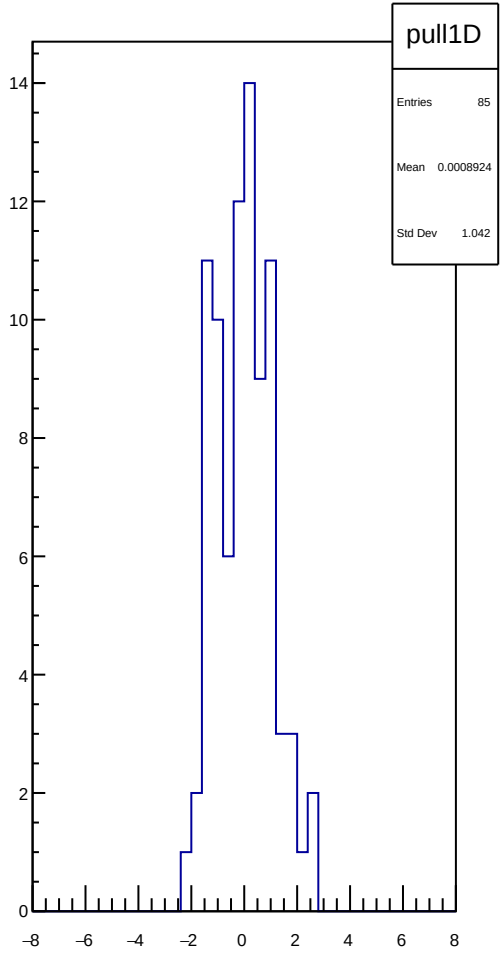

reg_asym_sam2_rms vs run
χ² / ndf 1458 / 84
p0 279.1 ± 0.2179
300
290
280
270
260

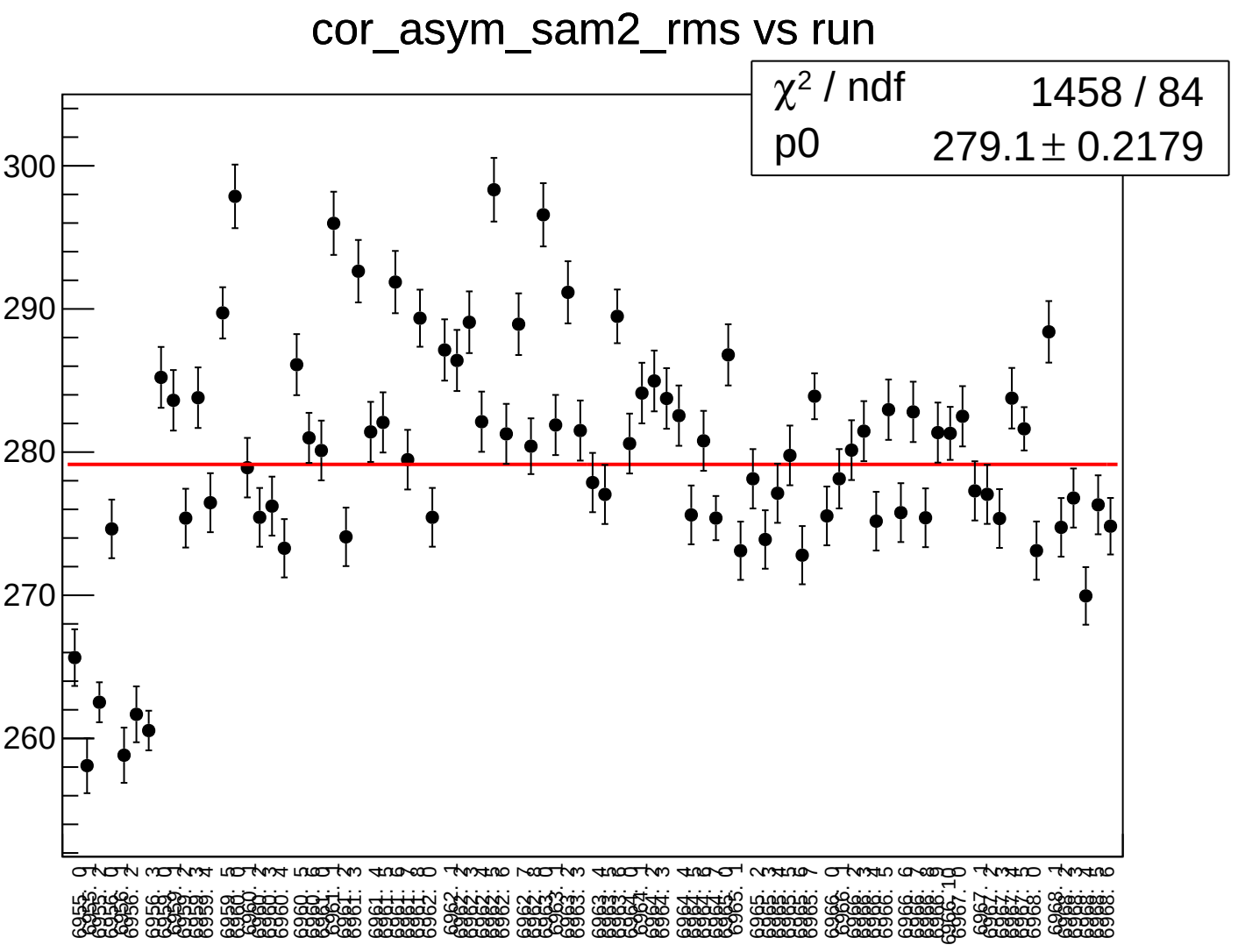

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 101.2 / 84
p0 325.1 ± 2745
100
50
0
−50
−100
pull
Entries 85
Mean −224.2
Std Dev 0
2
1
0
−1
−2
−3

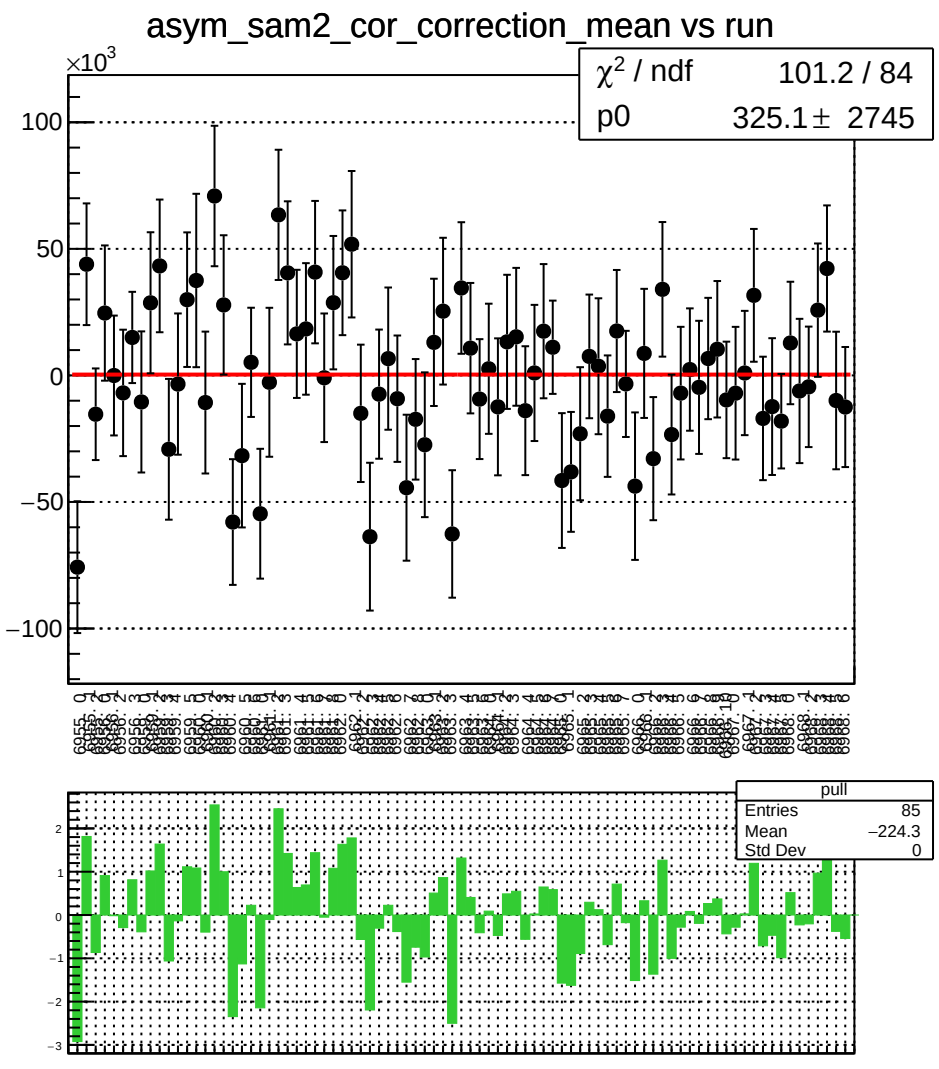

pull1D
Entries 85
Mean 0.009475
Std Dev 1.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

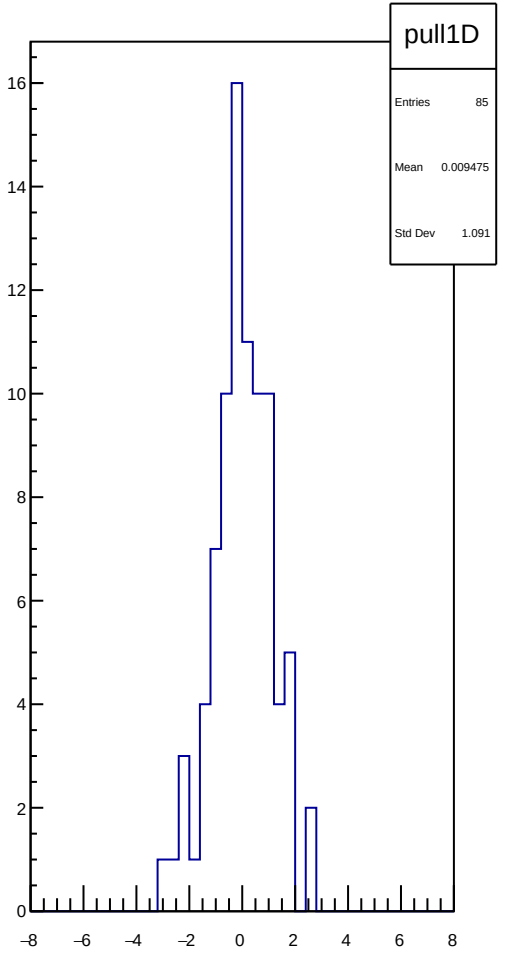

asym_sam2_reg_correction_rms vs run
χ² / ndf 7192 / 84
p0 2482 ± 1.941
3200
3000
2800
2600
2400
2200

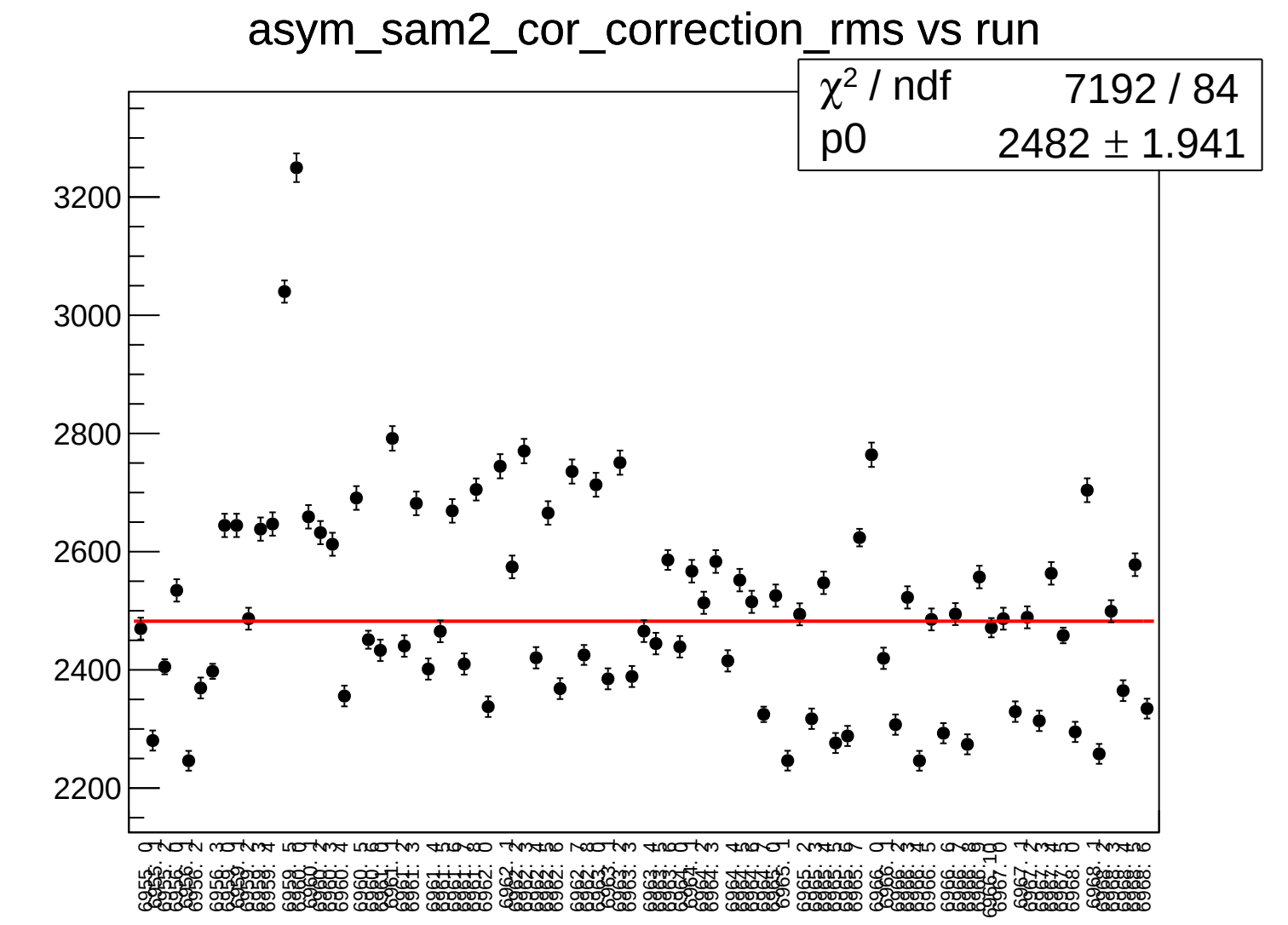

cor_asym_sam2_mean vs run
χ² / ndf 92.33 / 84
p0 33.31 ± 308.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −3503
Std Dev 0
2
1
0
−1
−2

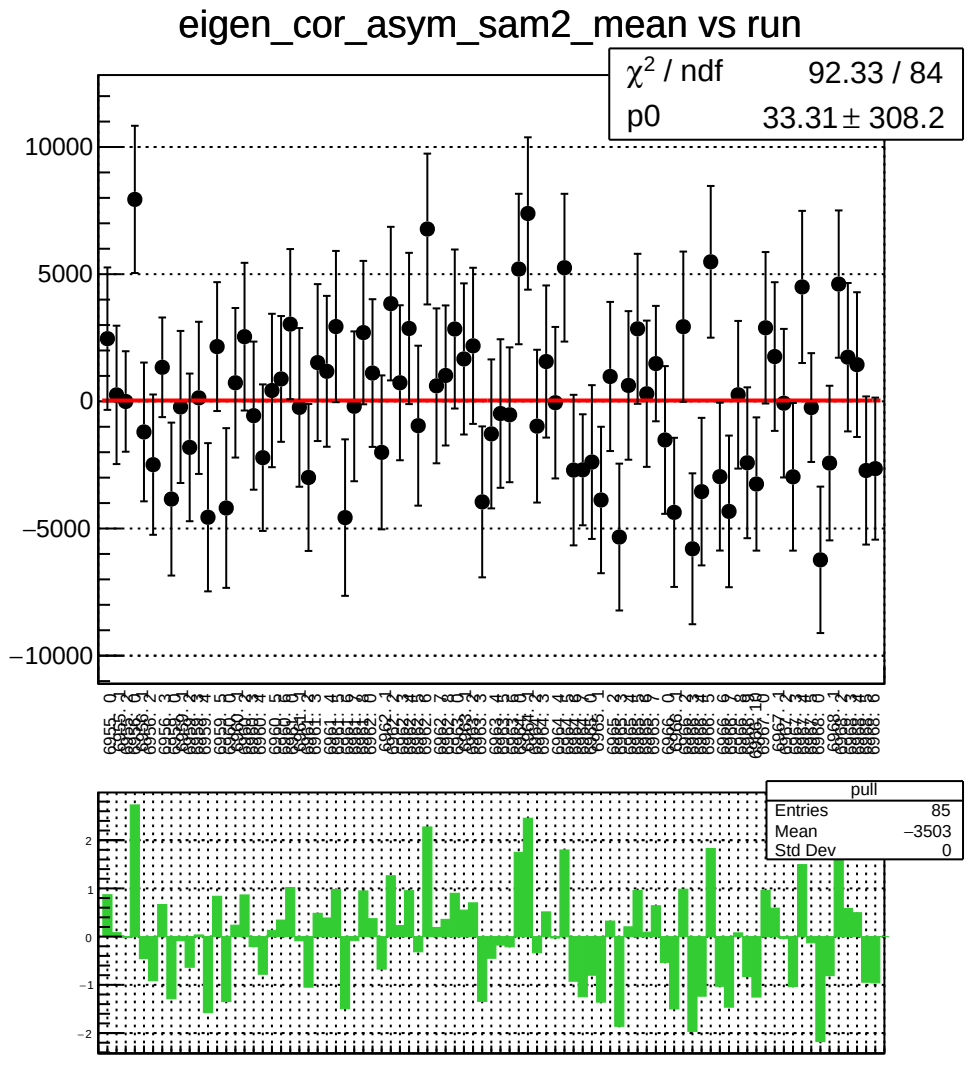

pull1D
Entries 85
Mean 0.0008924
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

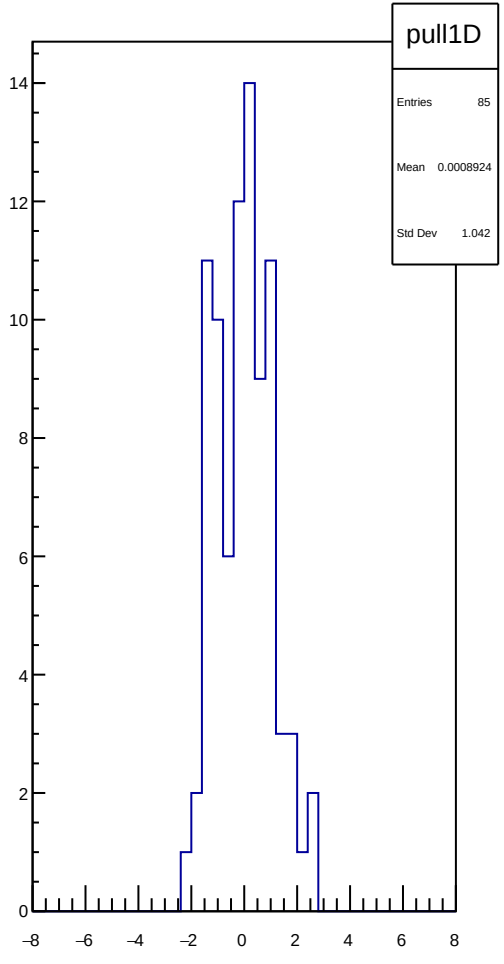

cor_asym_sam2_rms vs run
χ² / ndf 1458 / 84
p0 279.1 ± 0.2179
300
290
280
270
260

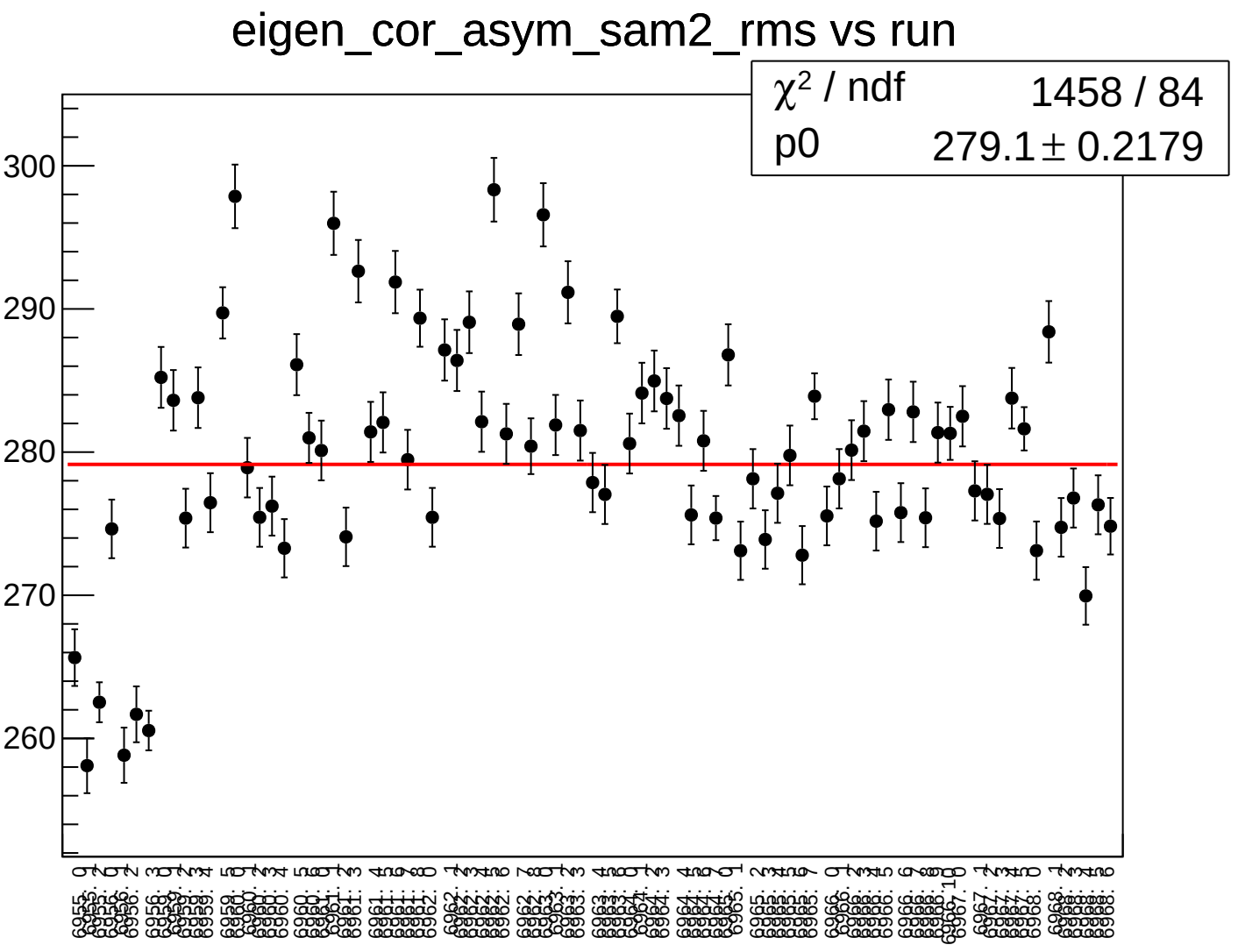

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 101.2 / 84
p0 325.1 ± 2745
100
50
0
−50
−100
pull
Entries 85
Mean −224.3
Std Dev 0
2
1
0
−1
−2
−3

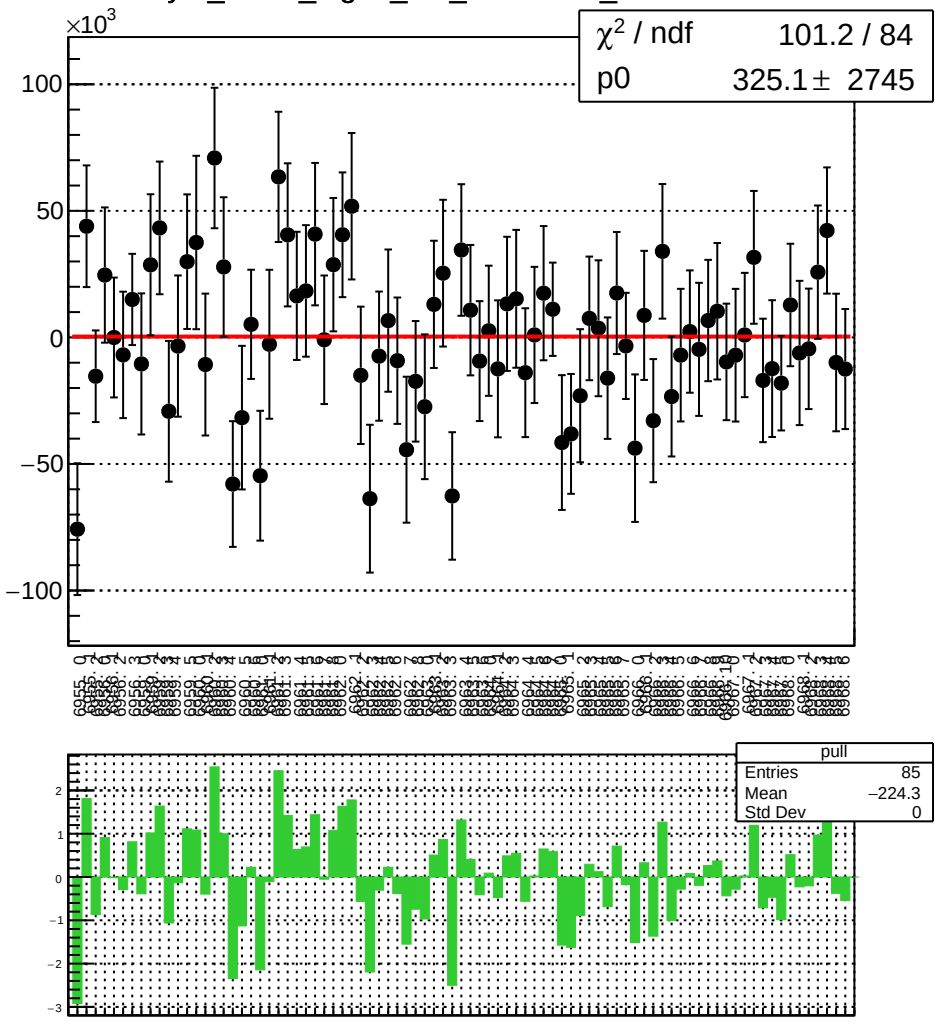

pull1D
Entries 85
Mean 0.009475
Std Dev 1.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

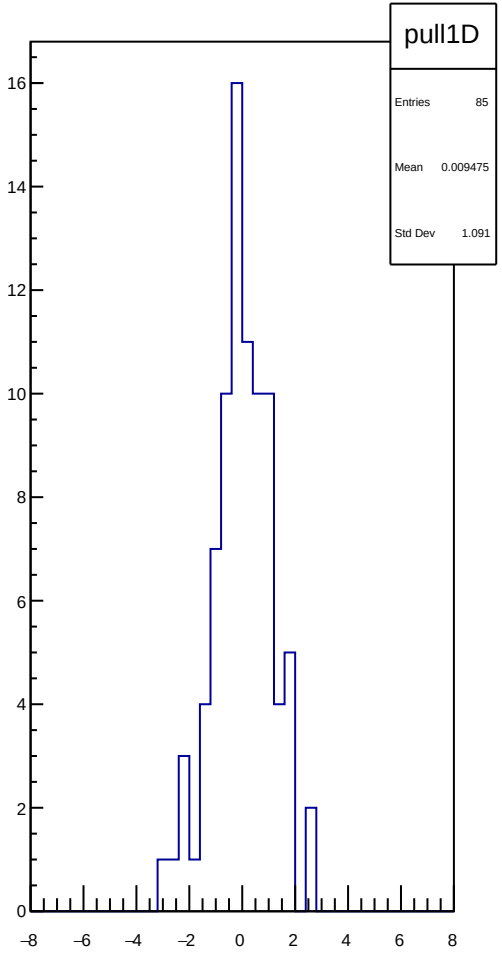

asym_sam2_cor_correction_rms vs run
χ² / ndf 7192 / 84
p0 2482 ± 1.941
3200
3000
2800
2600
2400
2200

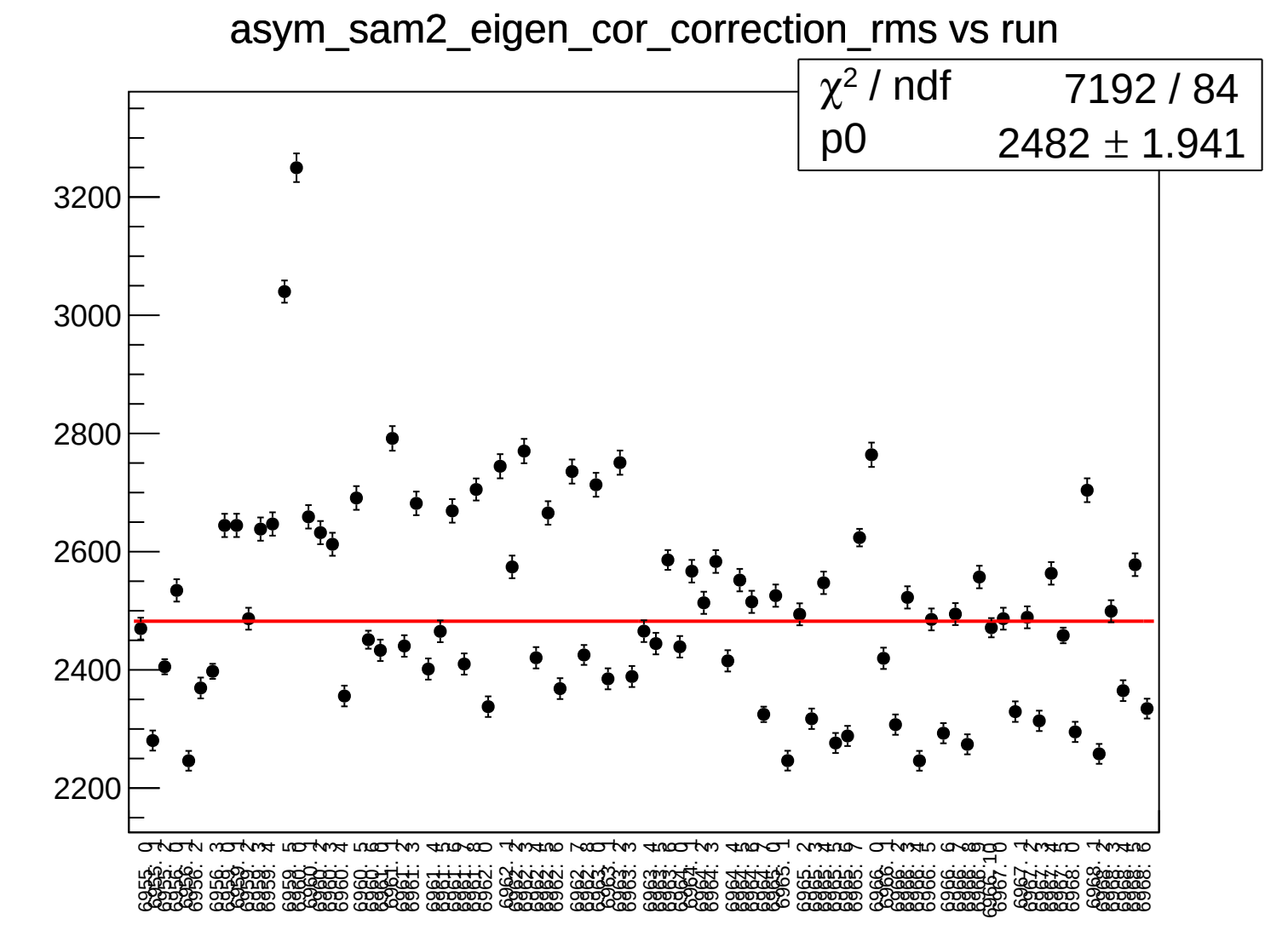

eigen_cor_asym_sam2_mean vs run
χ² / ndf 92.33 / 84
p0 33.31 ± 308.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −3503
Std Dev 0
2
1
0
−1
−2

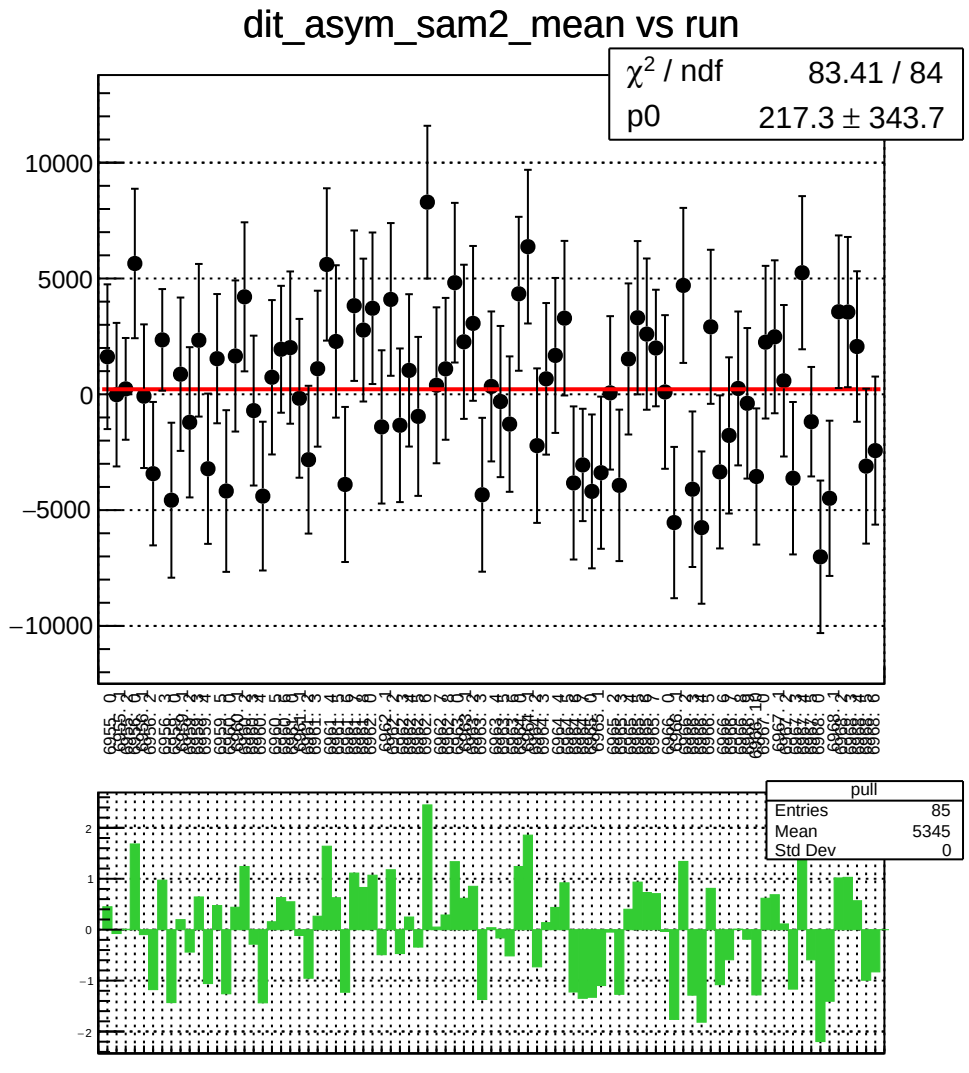

pull1D
Entries 85
Mean 0.0008924
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

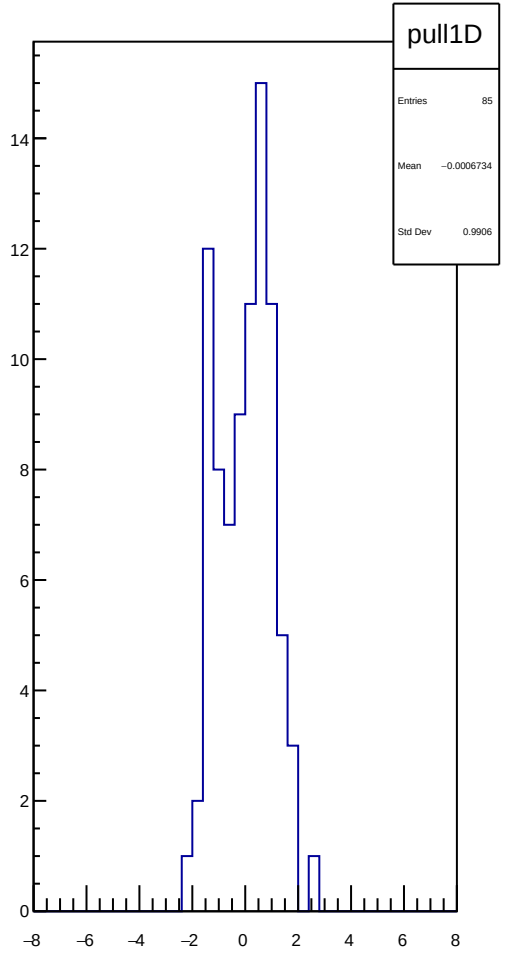

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1458 / 84
p0 279.1 ± 0.2179
300
290
280
270
260

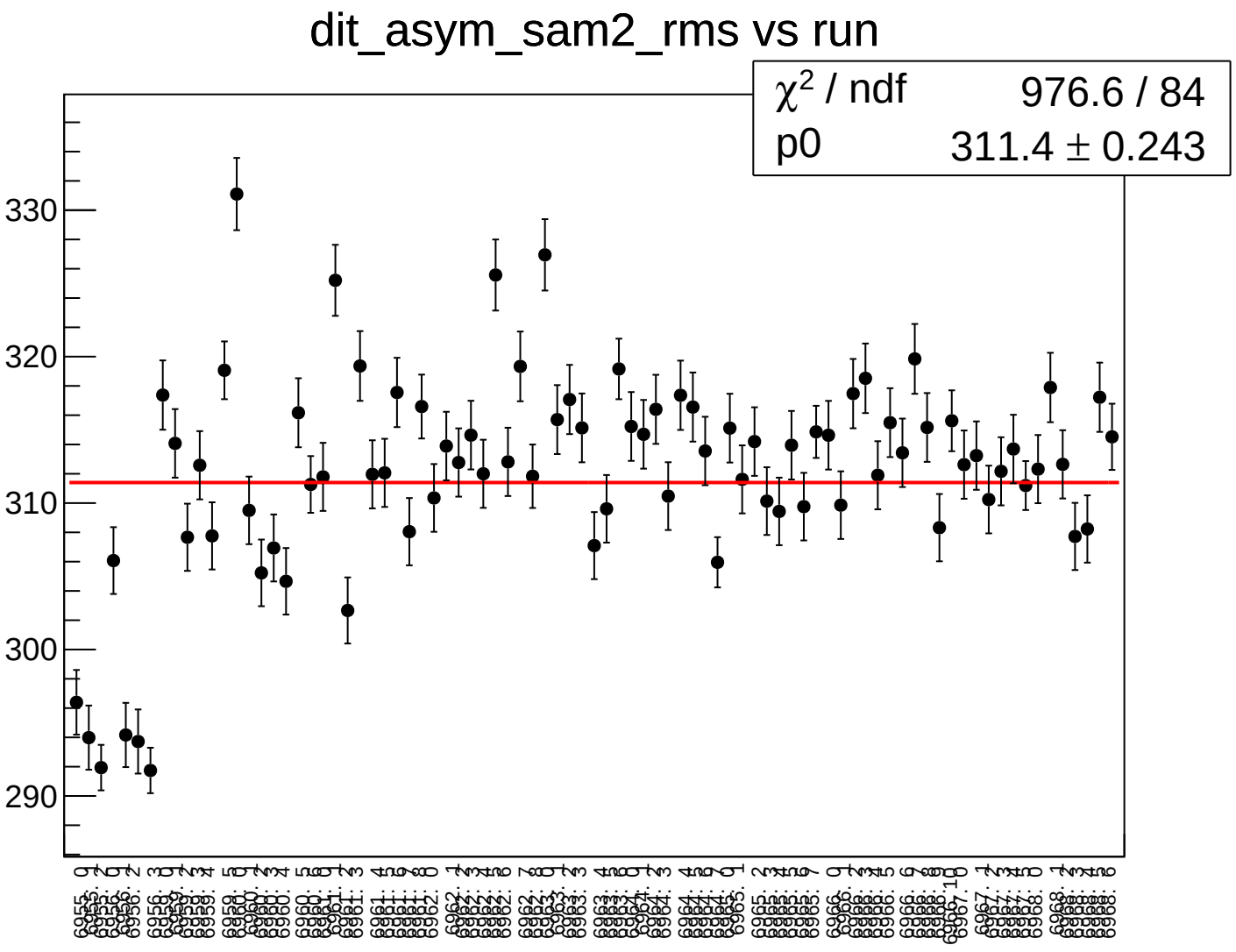

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.2 / 84
p0 325.1 ± 2745
100
50
0
−50
−100
pull
Entries 85
Mean −224.3
Std Dev 0
2
1
0
−1
−2
−3

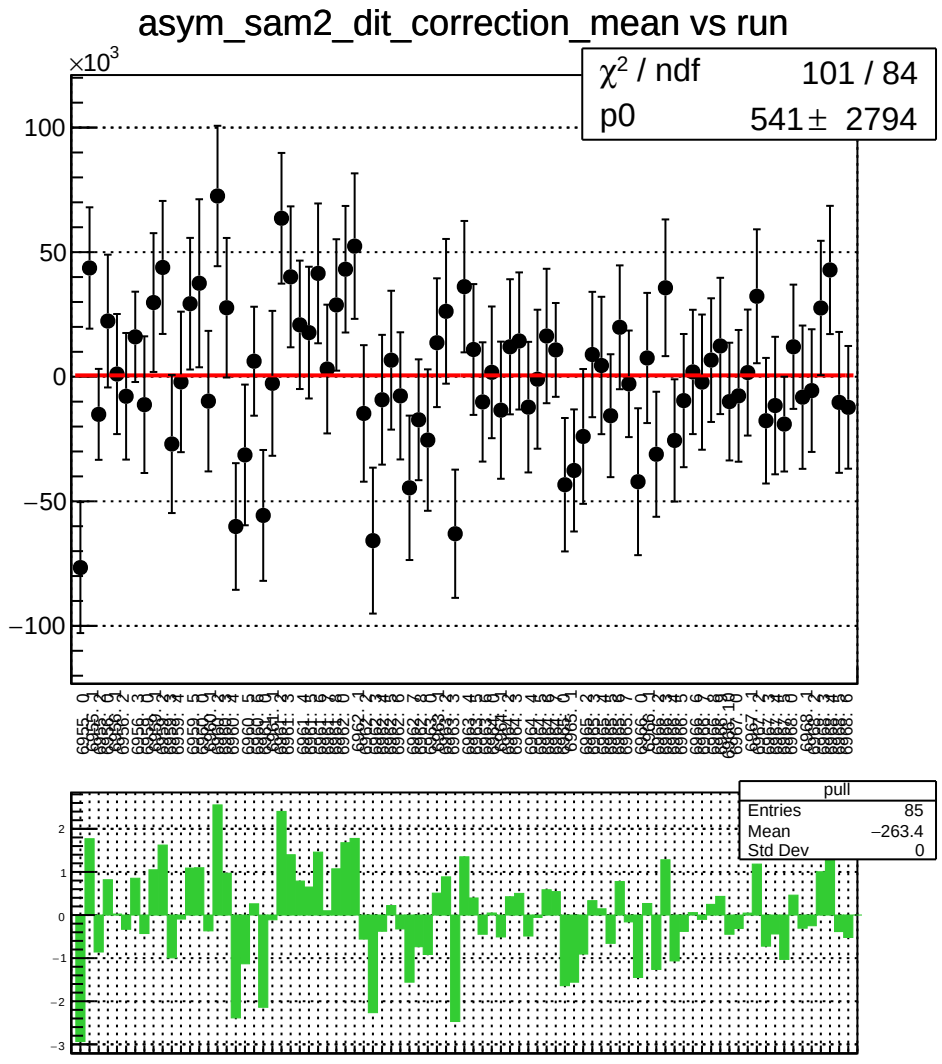

pull1D
Entries 85
Mean 0.009475
Std Dev 1.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

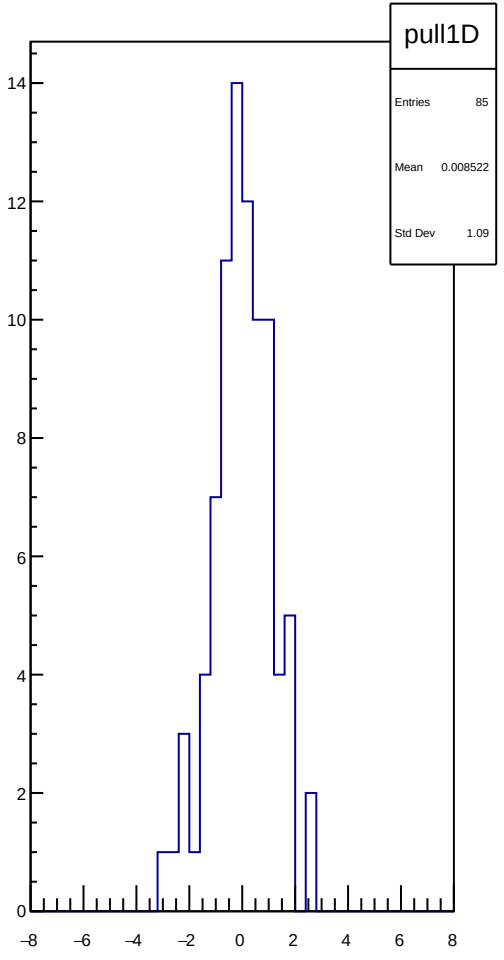

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 7192 / 84
p0 2482 ± 1.941
3200
3000
2800
2600
2400
2200

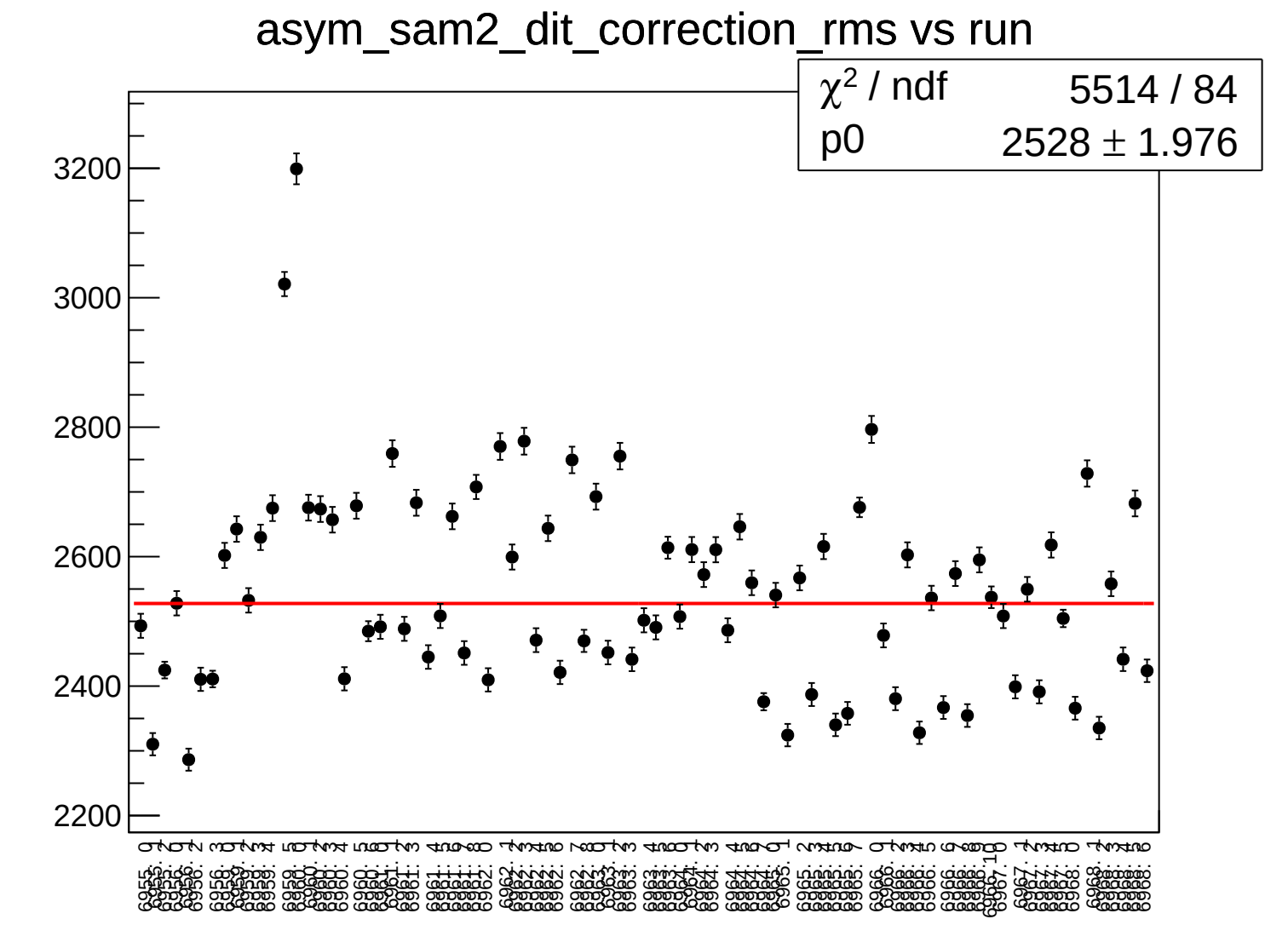

dit_asym_sam2_mean vs run
$\chi^2$ / ndf 83.41 / 84
p0 217.3 ± 343.7
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 5345
Std Dev 0
2
1
0
−1
−2

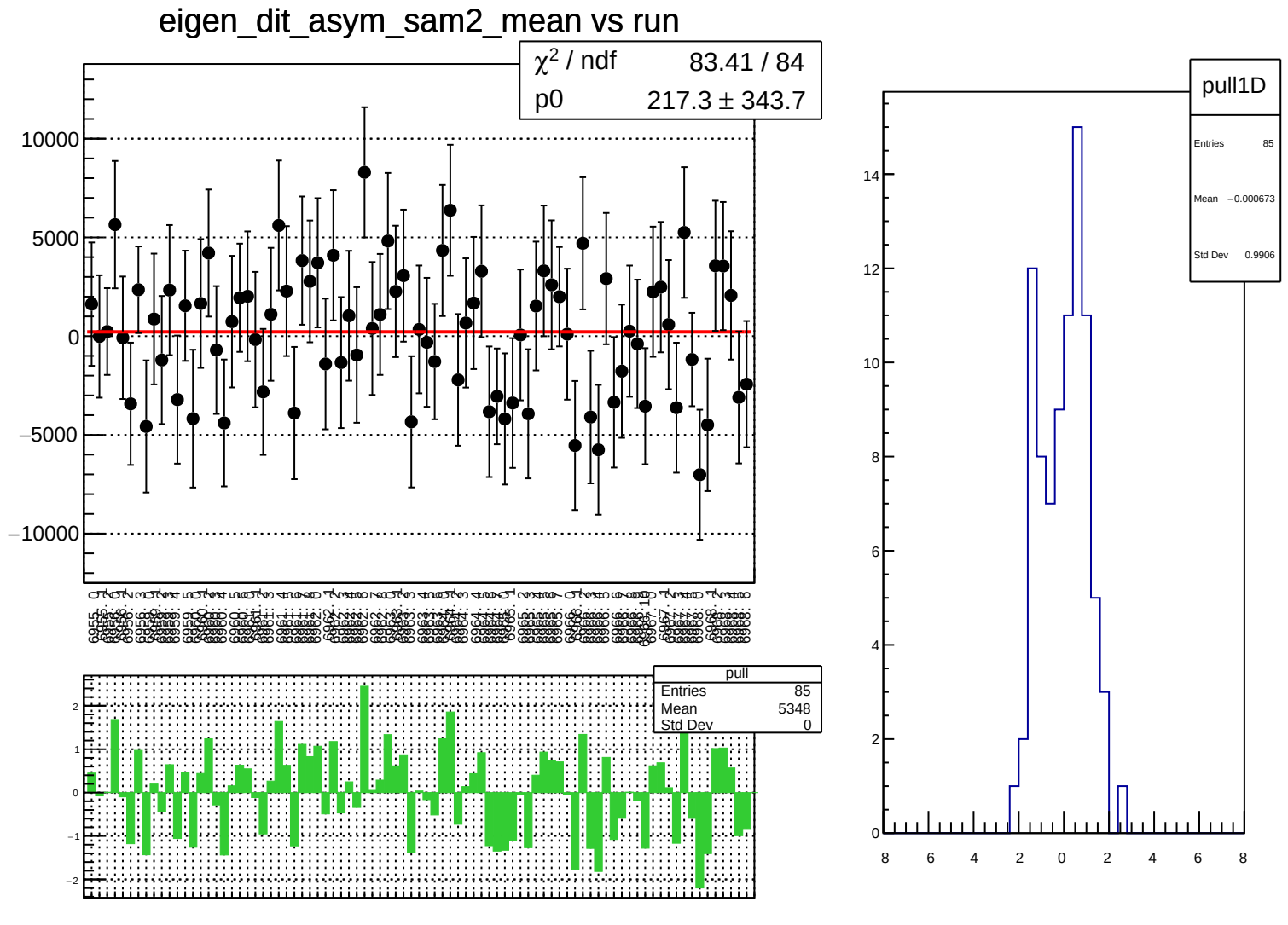

pull1D
Entries 85
Mean −0.0006734
Std Dev 0.9906
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

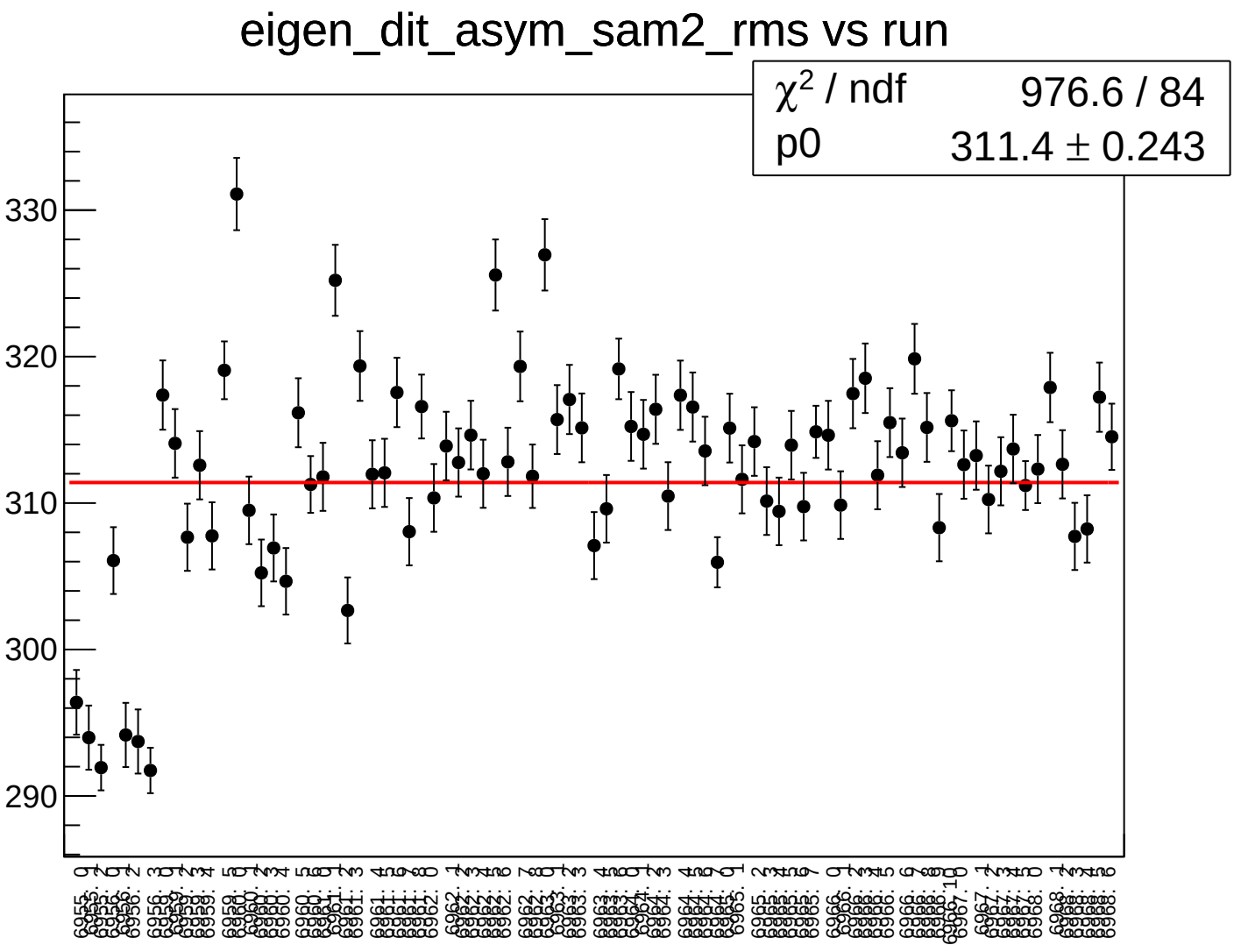

dit_asym_sam2_rms vs run
$\chi^2$ / ndf 976.6 / 84
p0 311.4 ± 0.243
330
320
310
300
290

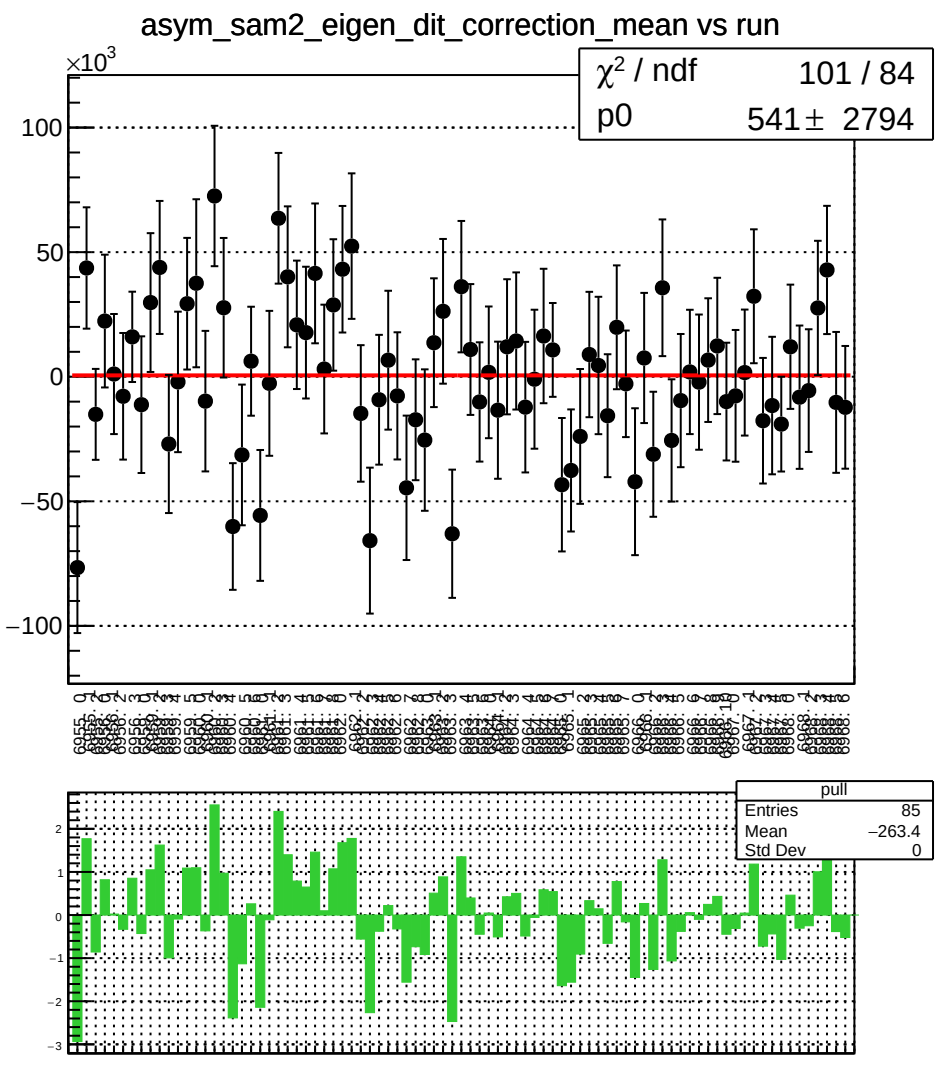

asym_sam2_dit_correction_mean vs run
×10^3
χ^2 / ndf 101 / 84
p0 541 ± 2794
100
50
0
−50
−100
pull
Entries 85
Mean −263.4
Std Dev 0
2
1
0
−1
−2
−3

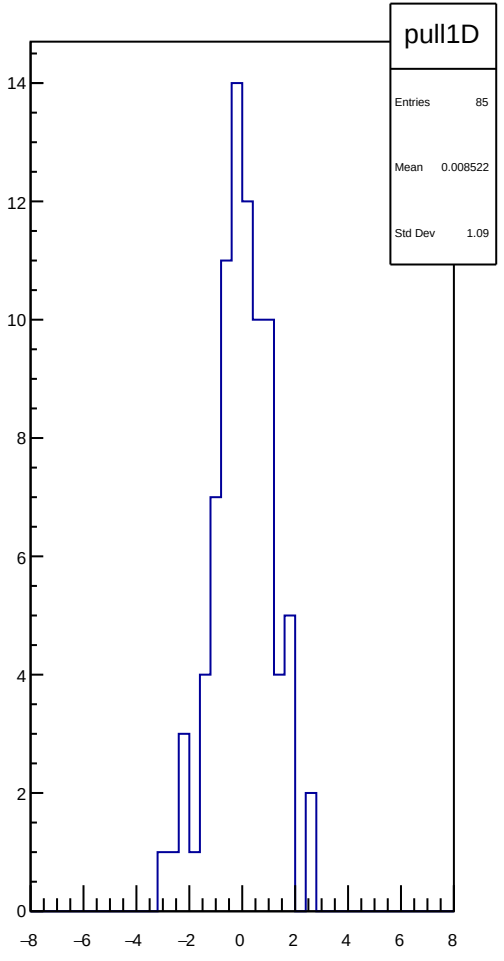

pull1D
Entries 85
Mean 0.008522
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

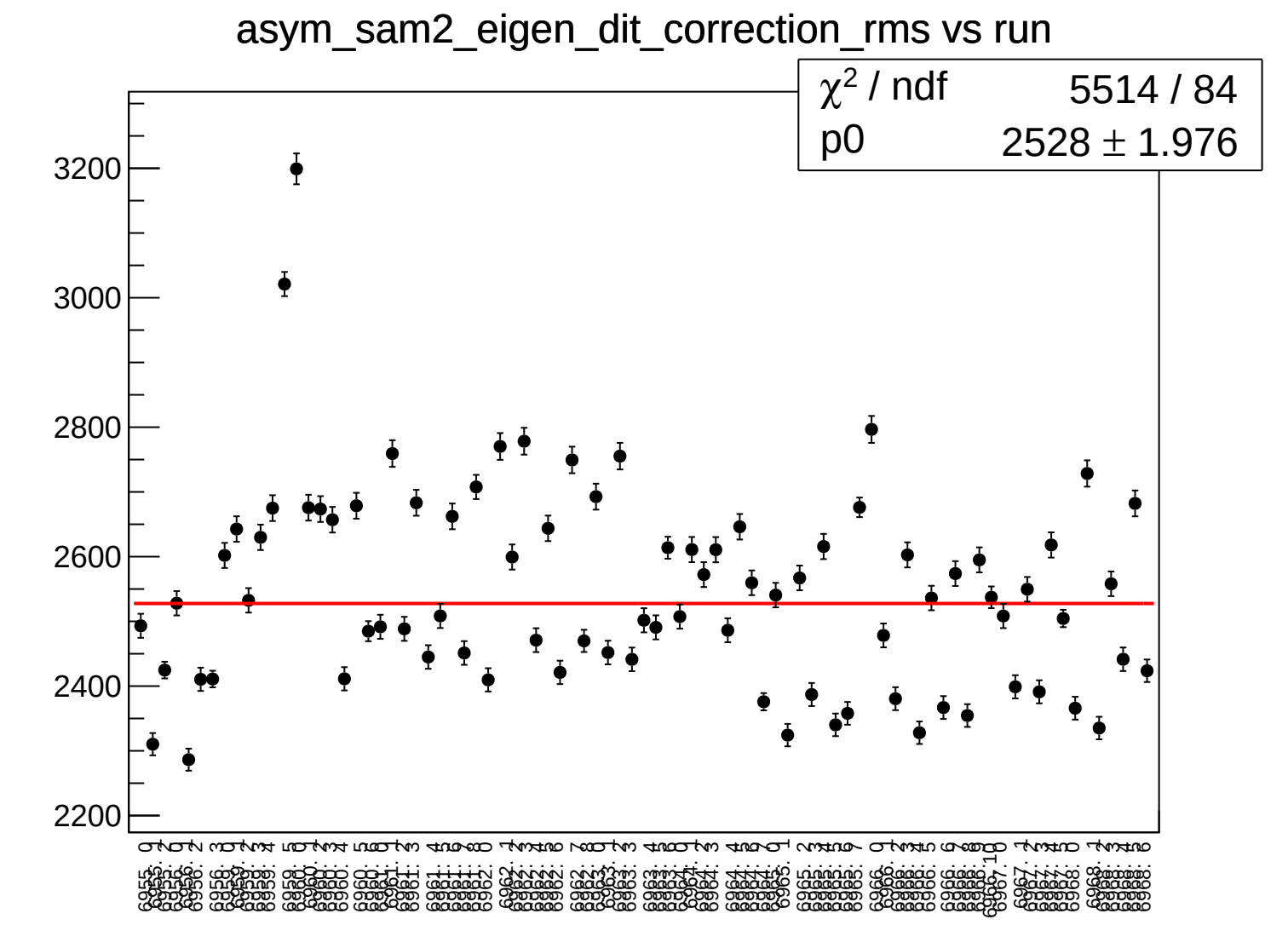

asym_sam2_dit_correction_rms vs run
χ² / ndf 5514 / 84
p0 2528 ± 1.976
3200
3000
2800
2600
2400
2200

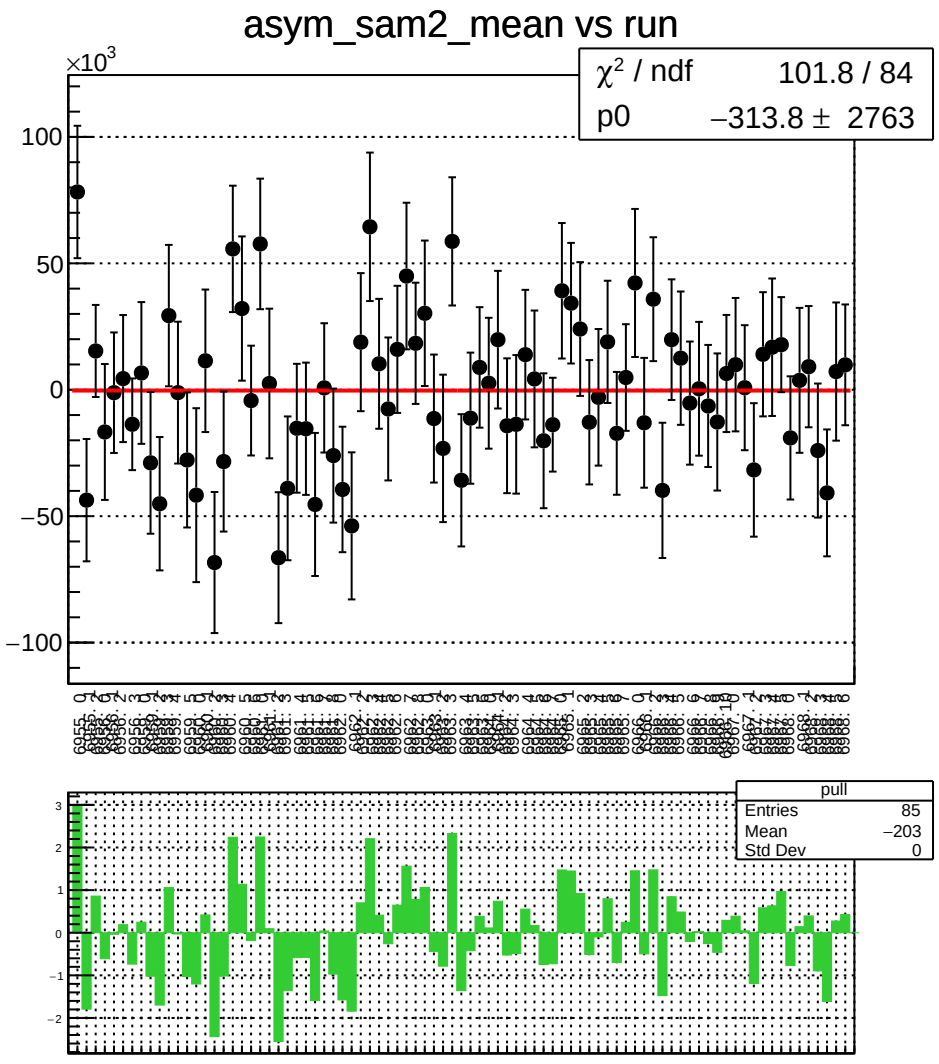

eigen_dit_asym_sam2_mean vs run
$\chi^2$ / ndf 83.41 / 84
p0 217.3 ± 343.7
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 5348
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.000673
Std Dev 0.9906
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

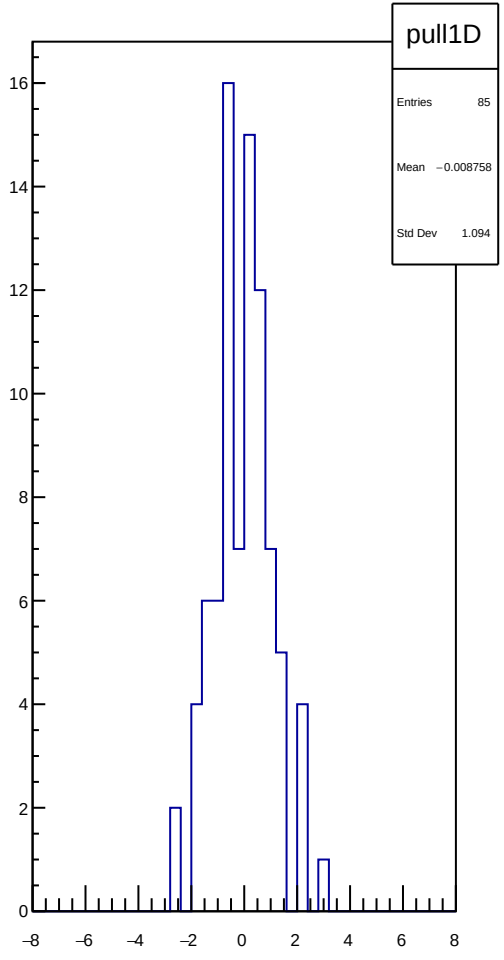

eigen_dit_asym_sam2_rms vs run
χ² / ndf 976.6 / 84
p0 311.4 ± 0.243
330
320
310
300
290

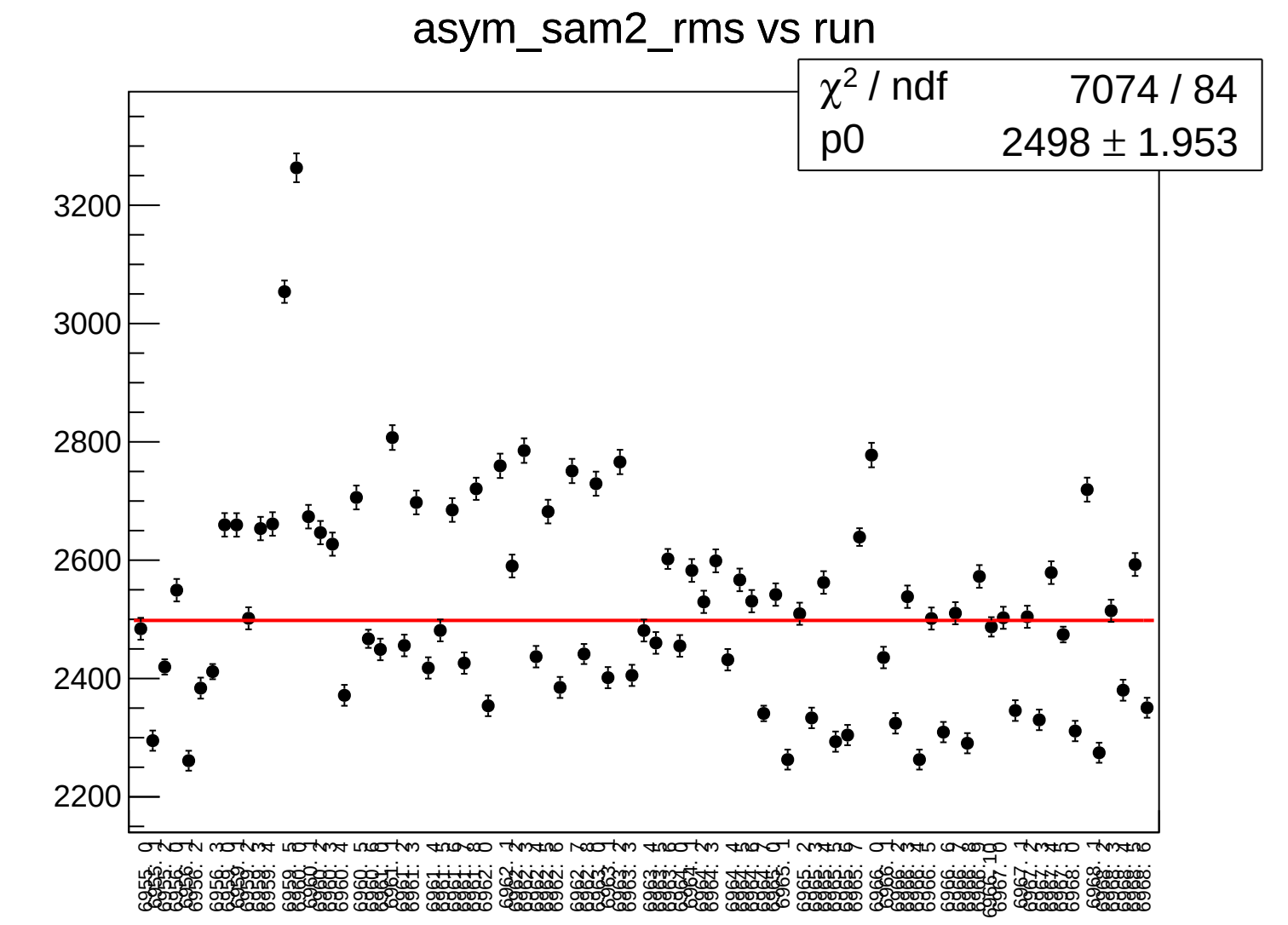

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101 / 84
p0 541 ± 2794
100
50
0
−50
−100
pull
Entries 85
Mean −263.4
Std Dev 0
2
1
0
−1
−2
−3

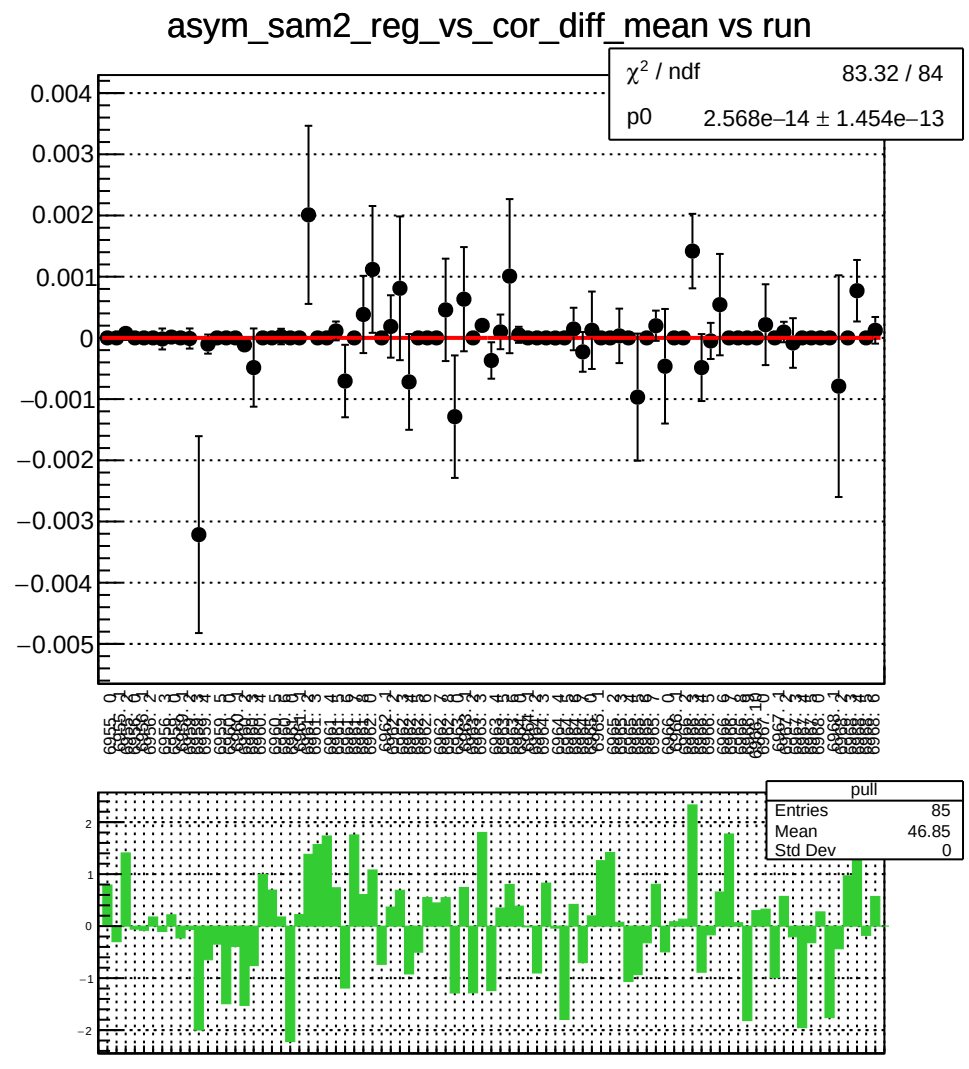

pull1D
Entries 85
Mean 0.008522
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

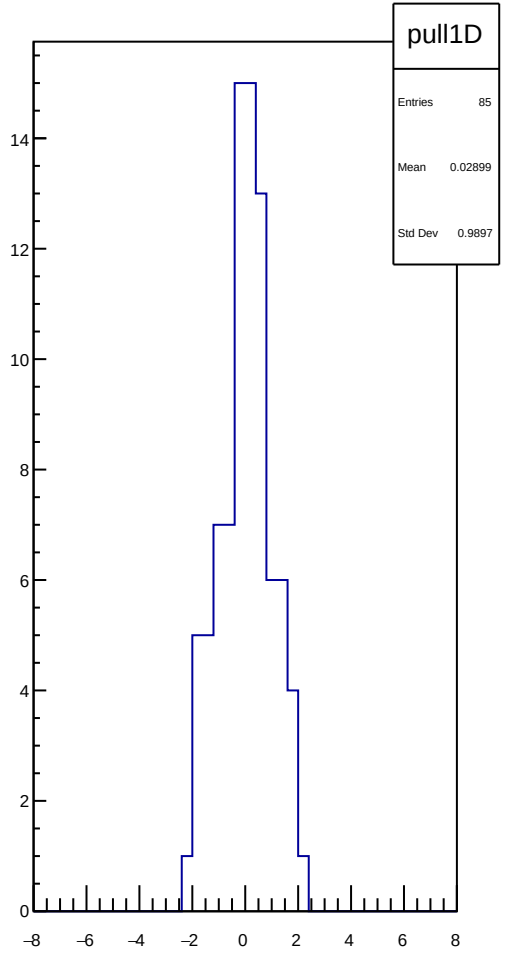

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 5514 / 84
p0 2528 ± 1.976
3200
3000
2800
2600
2400
2200

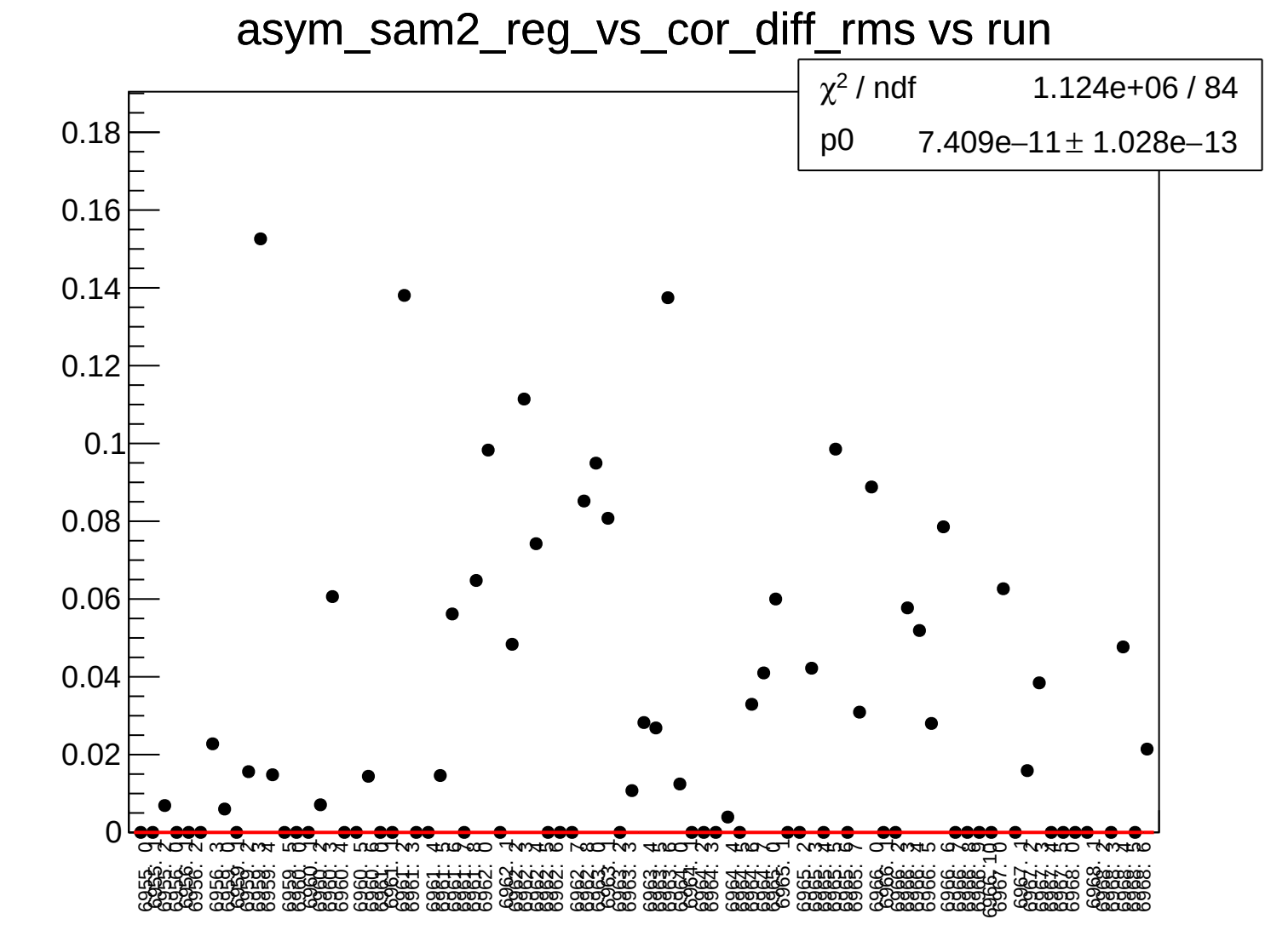

asym_sam2_mean vs run
×10^3
χ² / ndf 101.8 / 84
p0 −313.8 ± 2763
100
50
0
−50
−100
pull
Entries 85
Mean −203
Std Dev 0
3
2
1
0
−1
−2

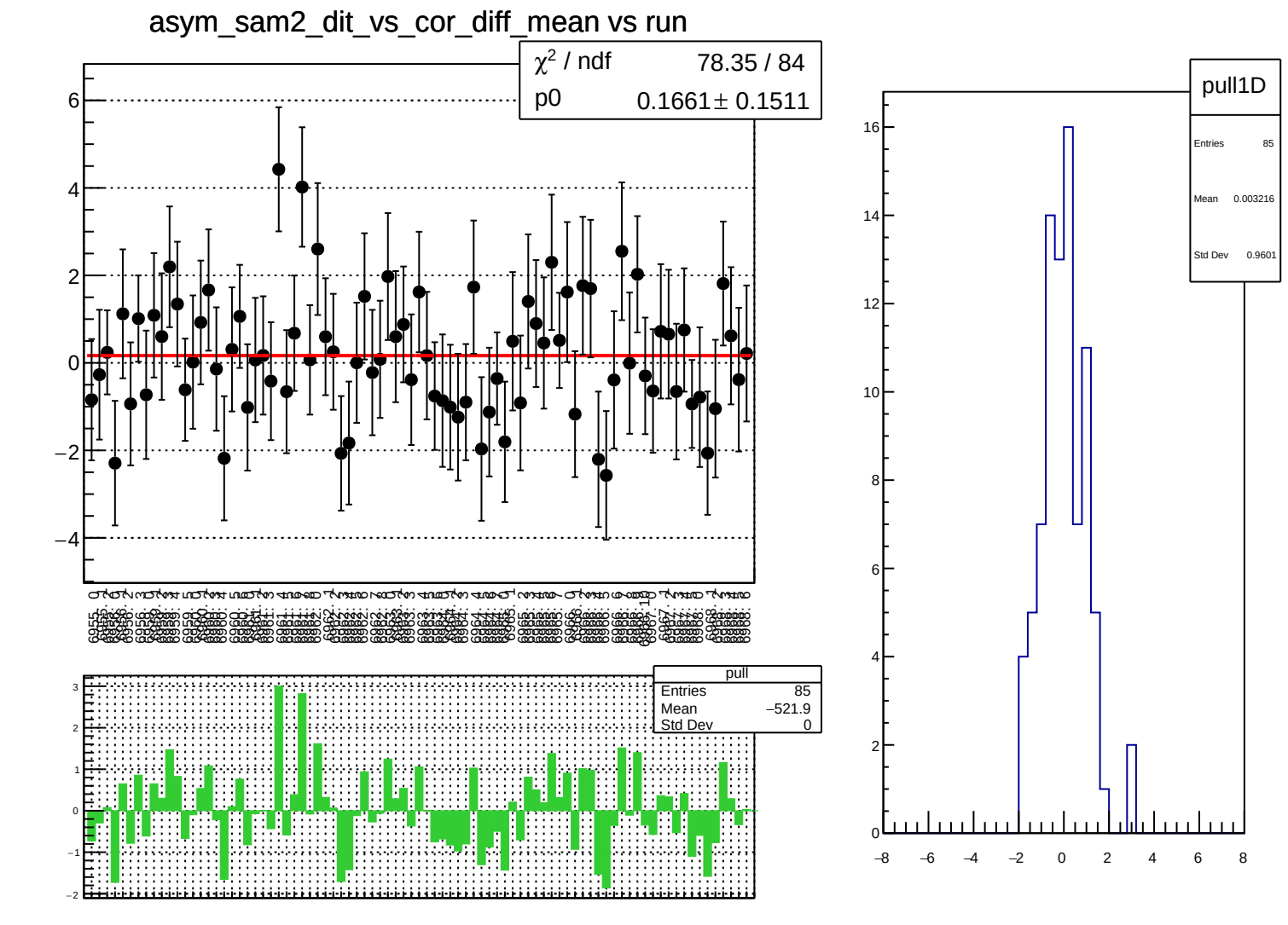

pull1D
Entries 85
Mean −0.008758
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

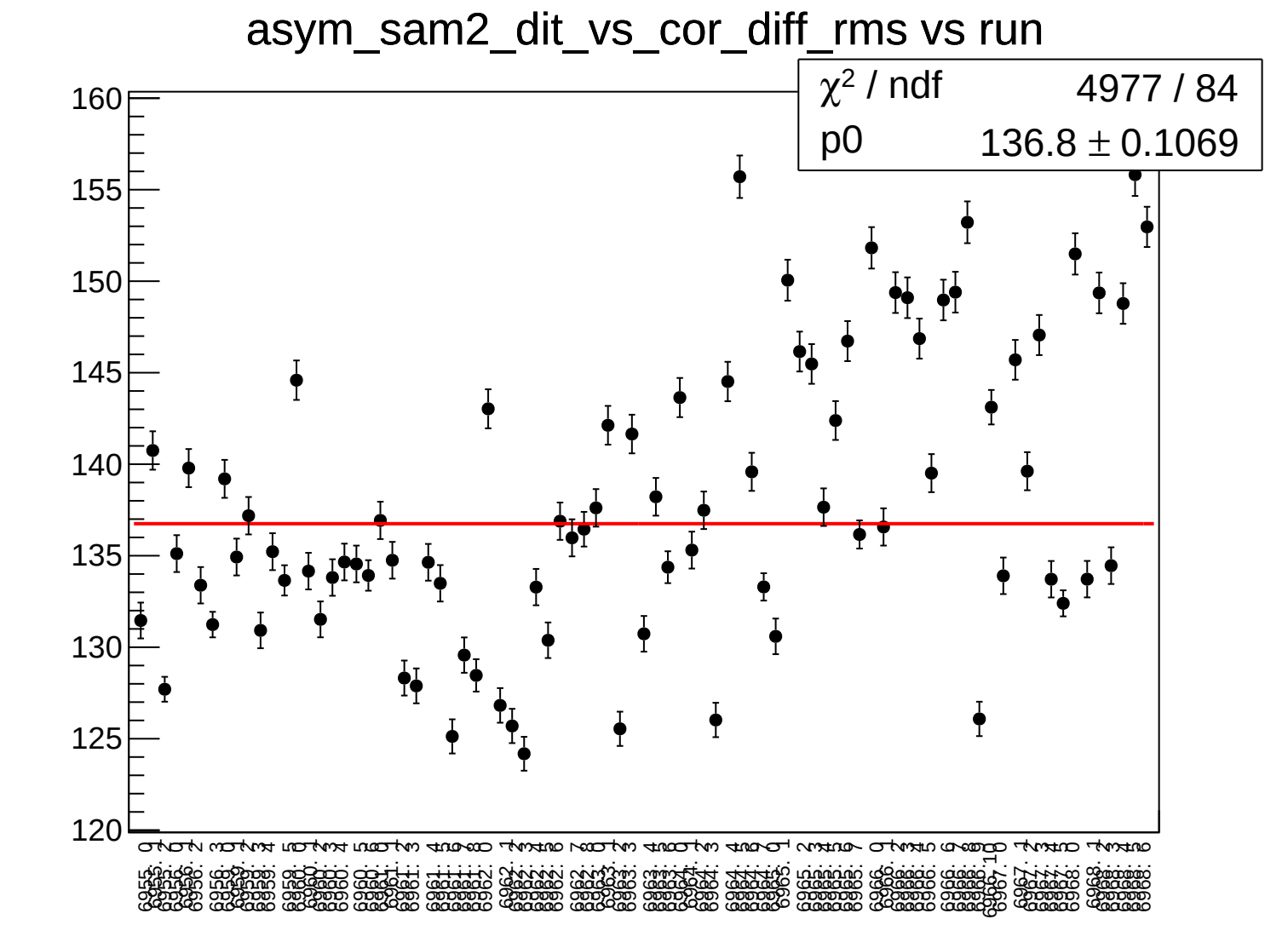

asym_sam2_rms vs run
$\chi^2$ / ndf 7074 / 84
p0 2498 ± 1.953
3200
3000
2800
2600
2400
2200

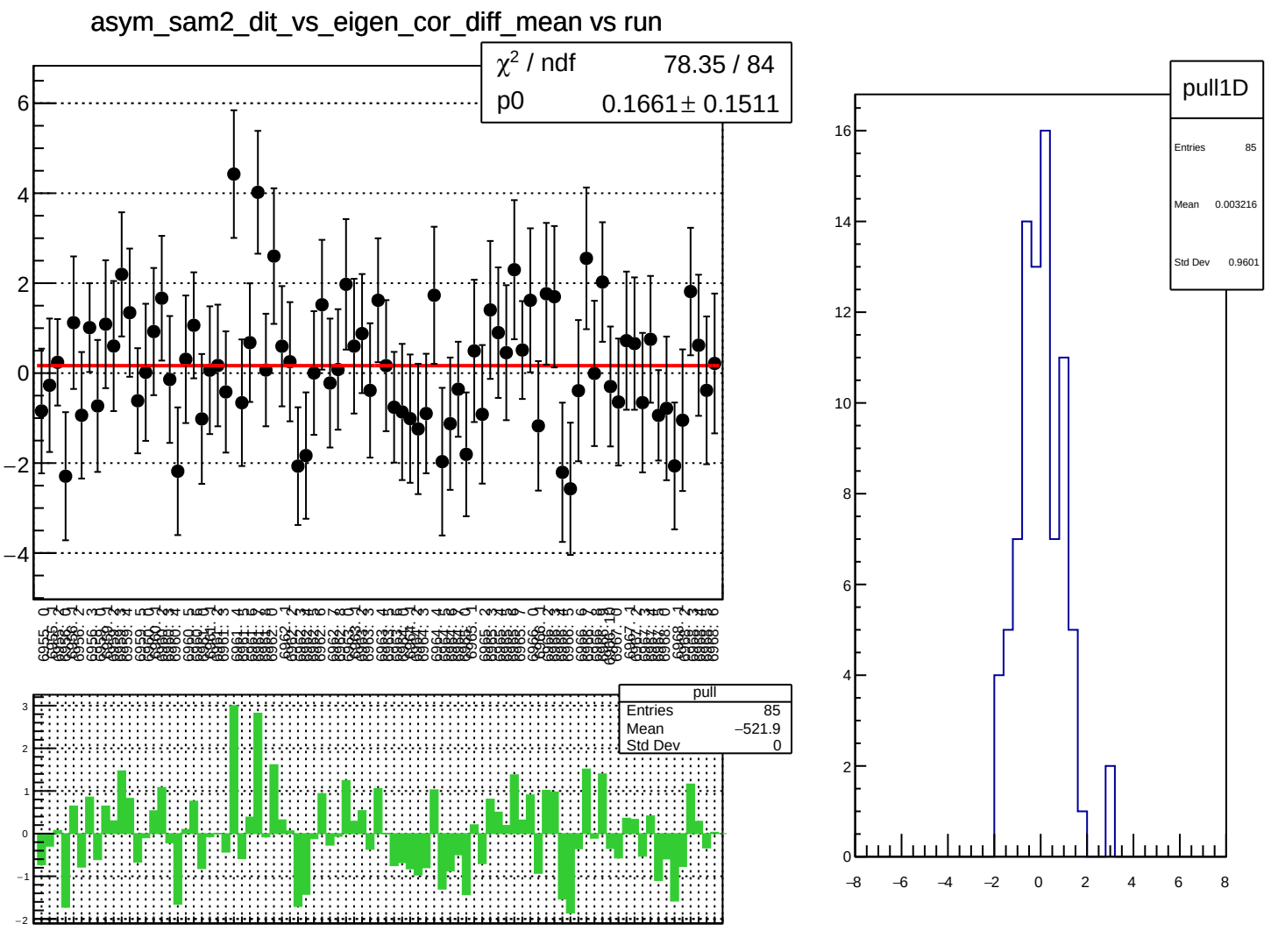

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 83.32 / 84
p0 2.568e−14 ± 1.454e−13
pull
Entries 85
Mean 46.85
Std Dev 0

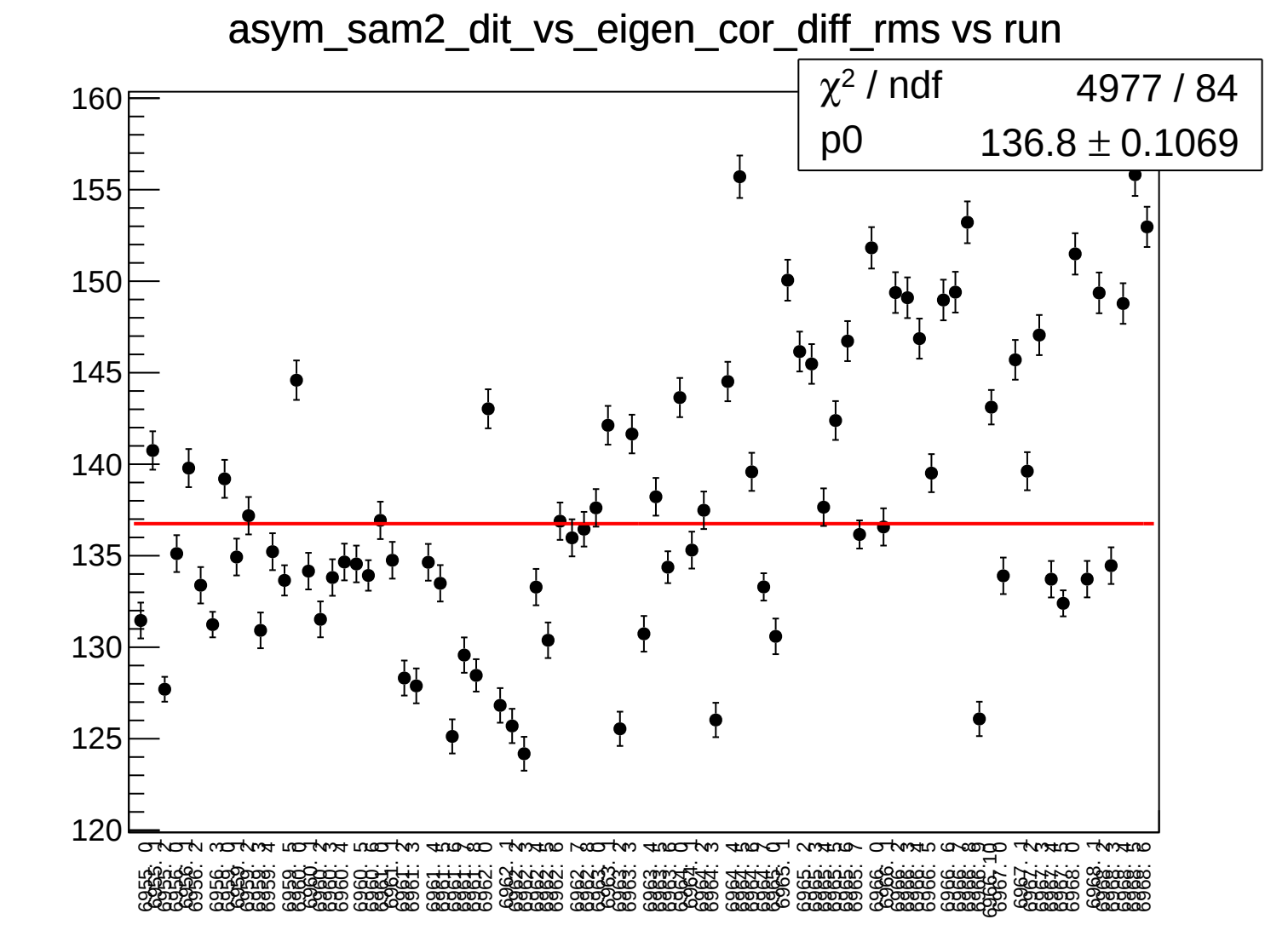

pull1D
Entries 85
Mean 0.02899
Std Dev 0.9897

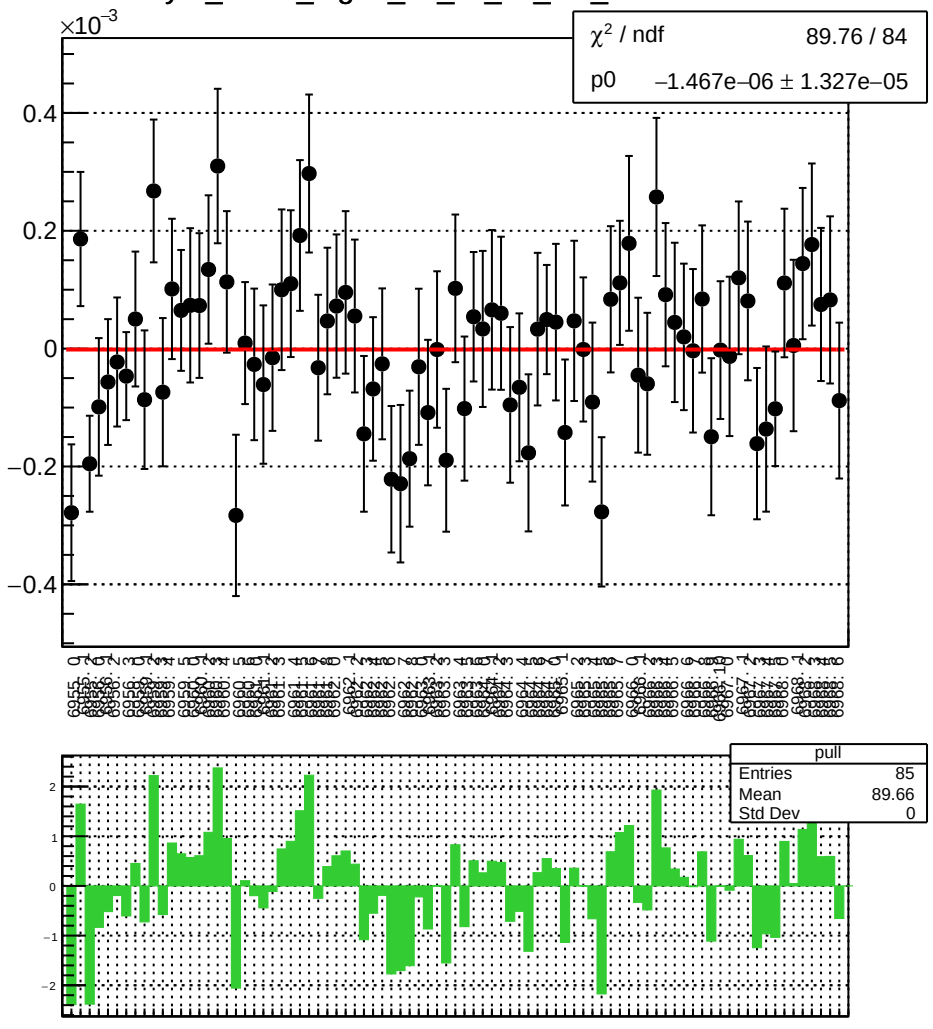

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.124e+06 / 84
p0 7.409e−11 ± 1.028e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

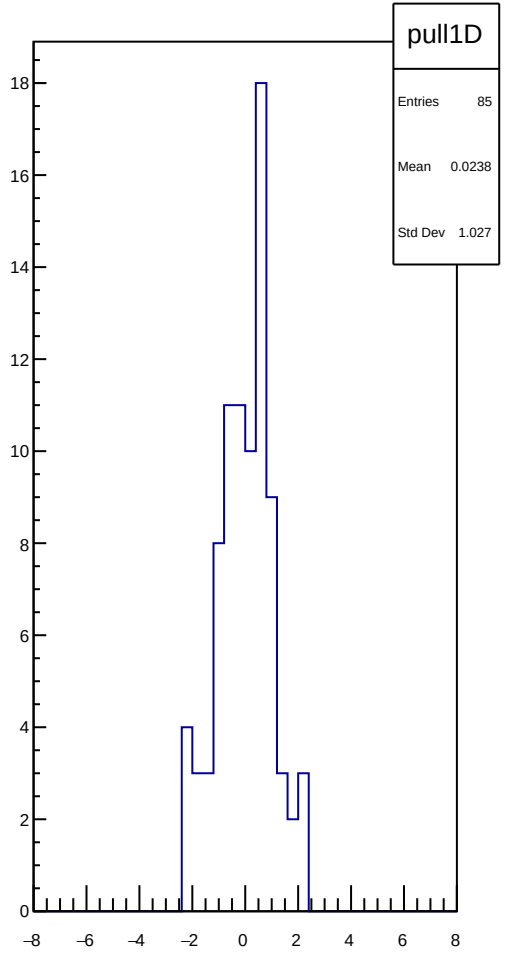

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 78.35 / 84
p0 0.1661 ± 0.1511
pull
Entries 85
Mean −521.9
Std Dev 0
pull1D
Entries 85
Mean 0.003216
Std Dev 0.9601

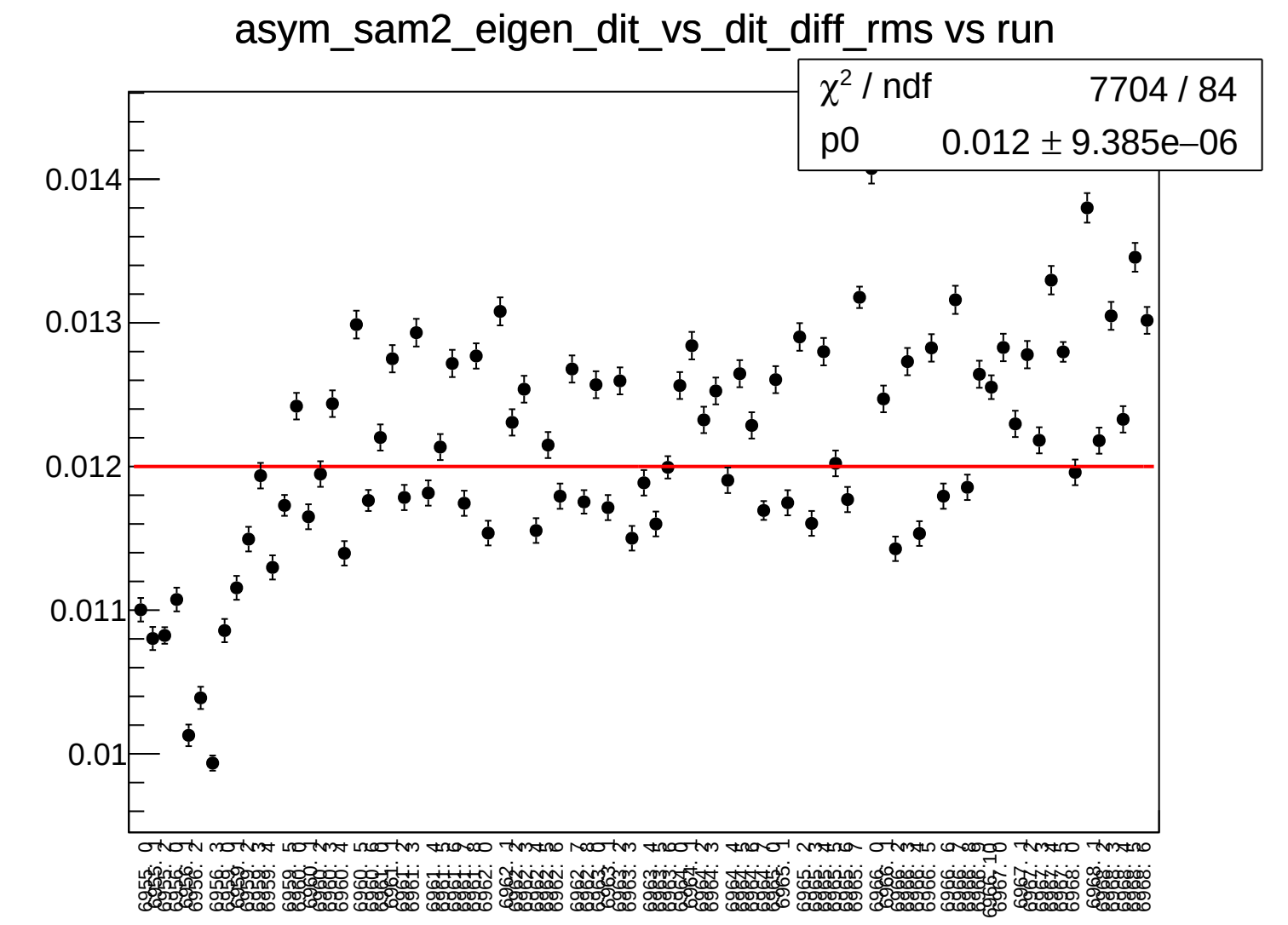

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 4977 / 84
p0 136.8 ± 0.1069
160
155
150
145
140
135
130
125
120

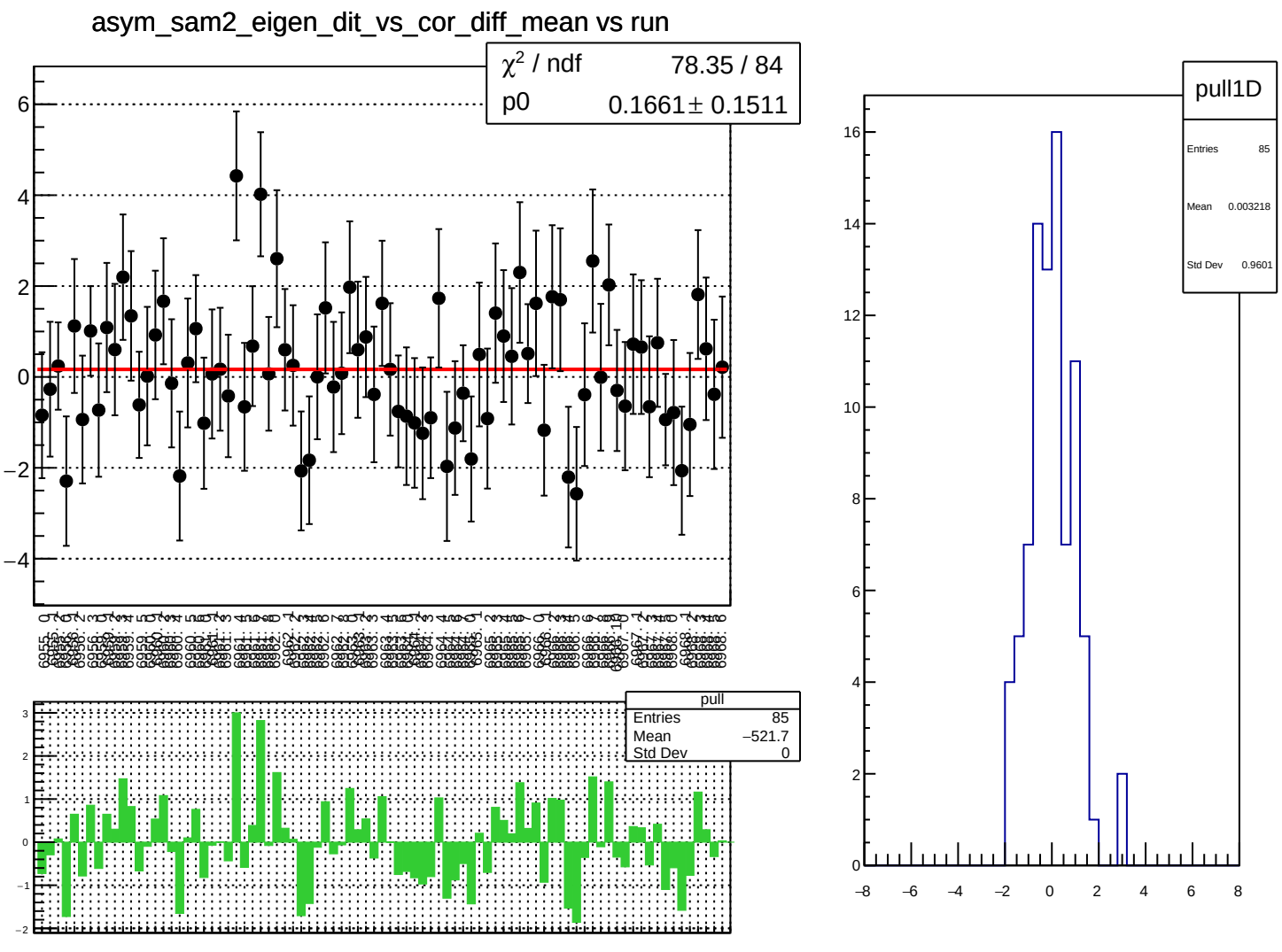

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.35 / 84
p0 0.1661 ± 0.1511
pull
Entries 85
Mean −521.9
Std Dev 0
pull1D
Entries 85
Mean 0.003216
Std Dev 0.9601

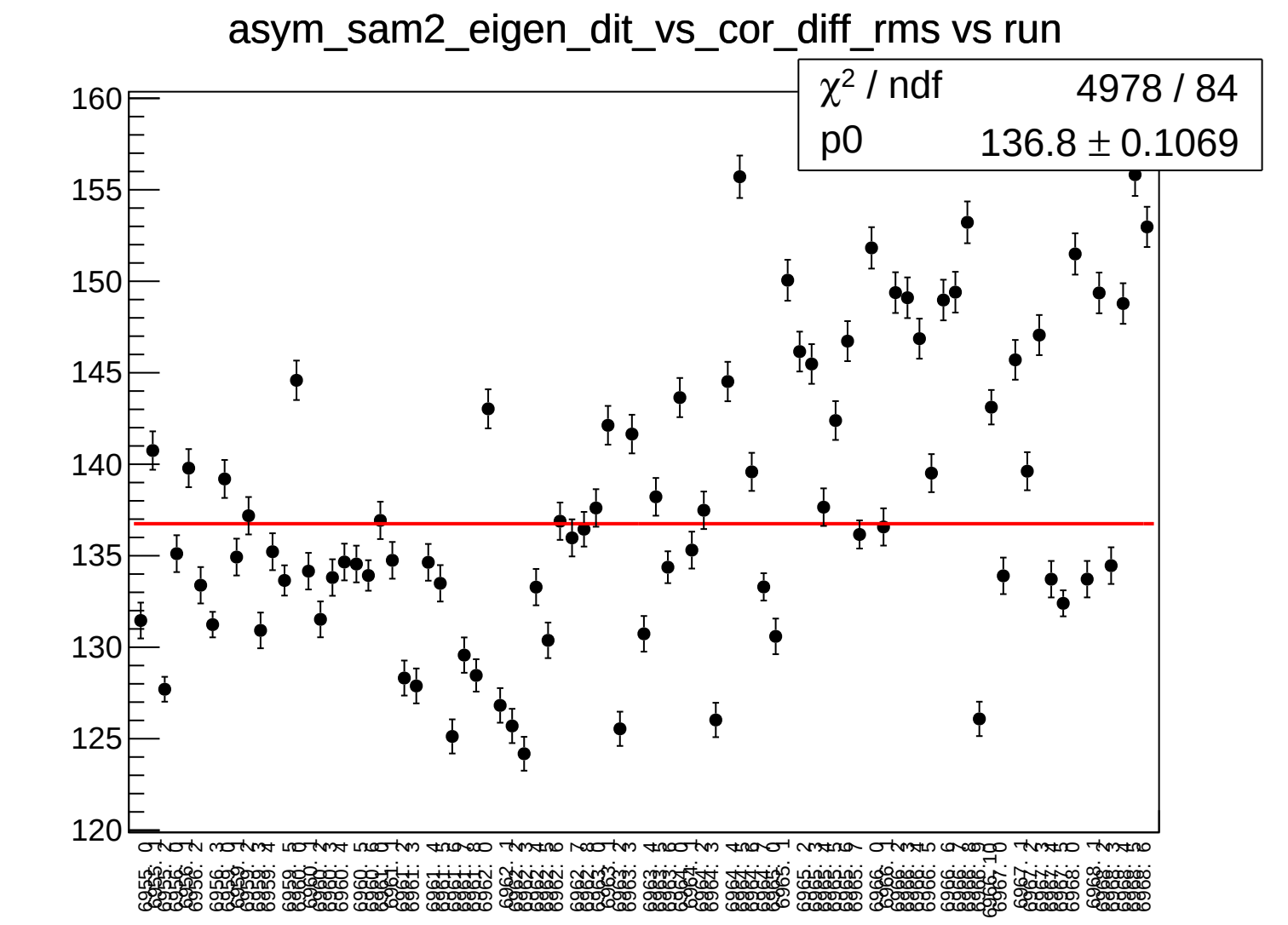

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4977 / 84
p0 136.8 ± 0.1069
160
155
150
145
140
135
130
125
120

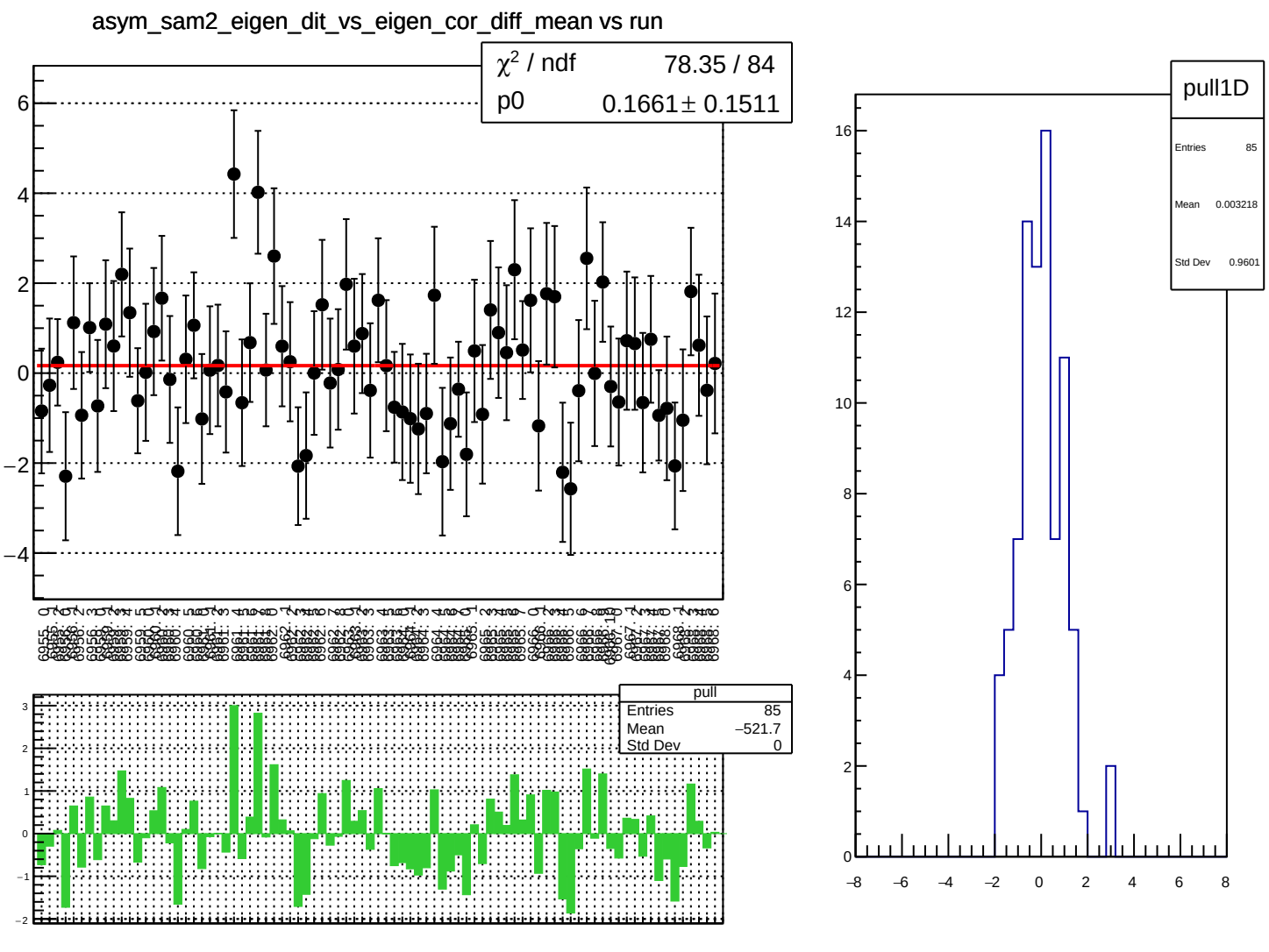

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.76 / 84
p0 −1.467e−06 ± 1.327e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 85
Mean 89.66
Std Dev 0
2
1
0
−1
−2

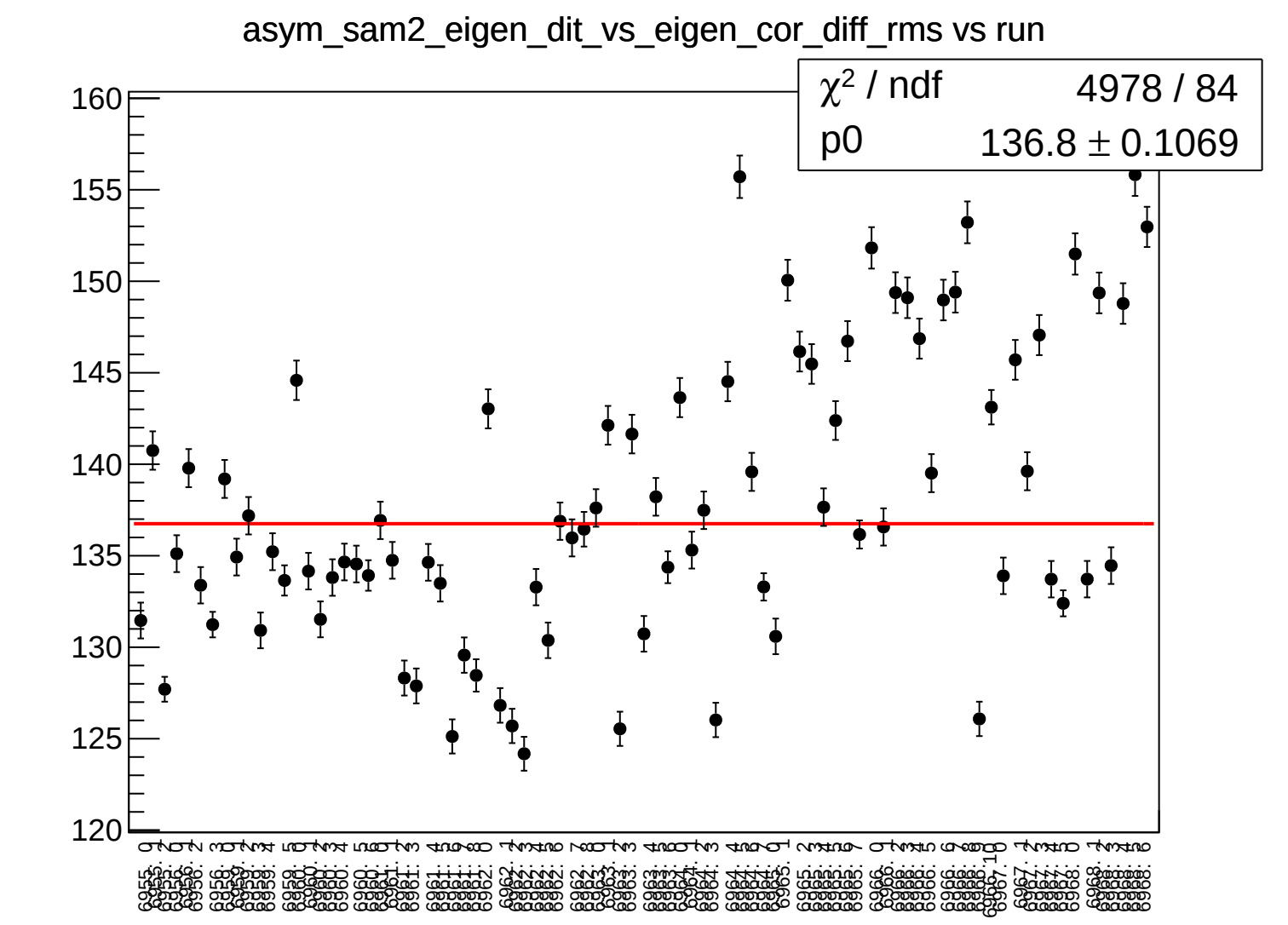

pull1D
Entries 85
Mean 0.0238
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

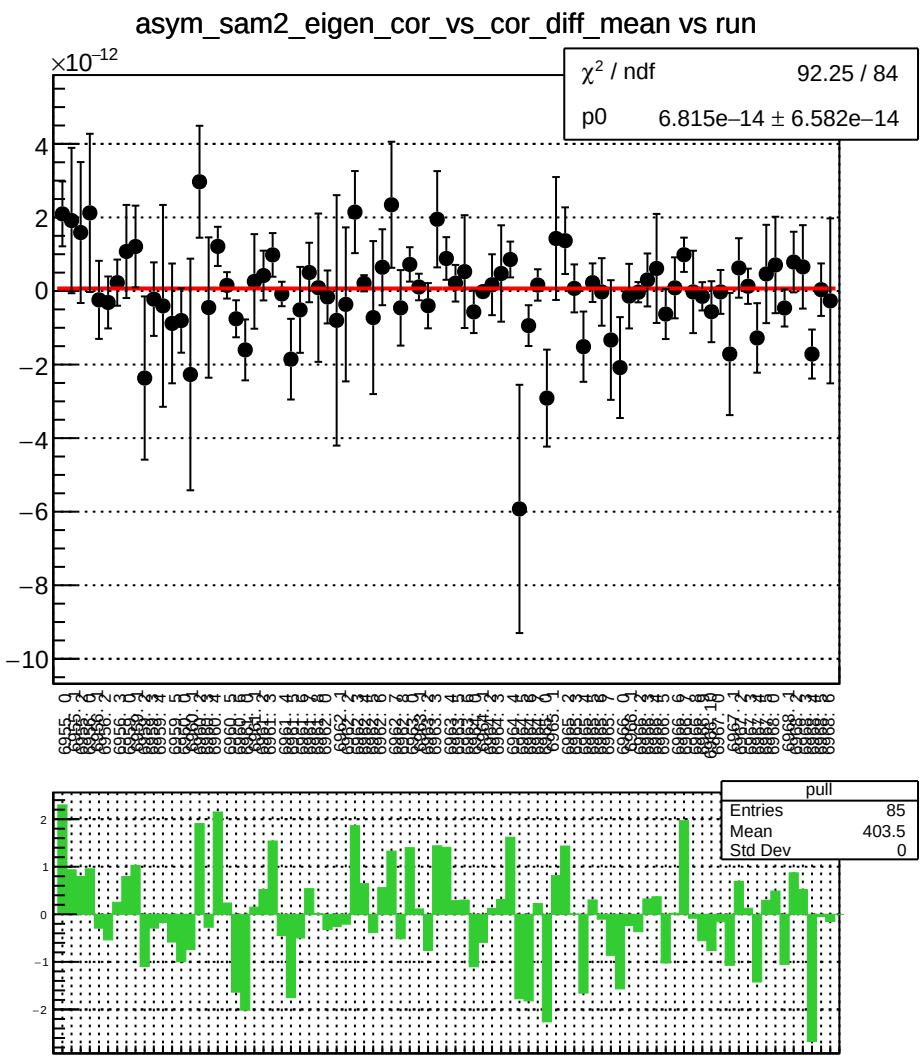

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7704 / 84
p0 0.012 ± 9.385e−06
0.014
0.013
0.012
0.011
0.01

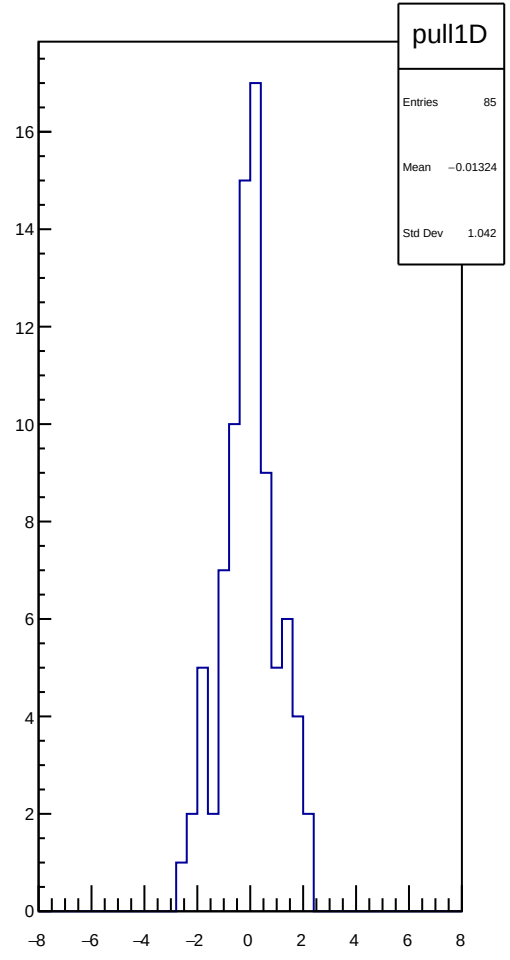

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.35 / 84
p0 0.1661 ± 0.1511
pull
Entries 85
Mean −521.7
Std Dev 0
pull1D
Entries 85
Mean 0.003218
Std Dev 0.9601

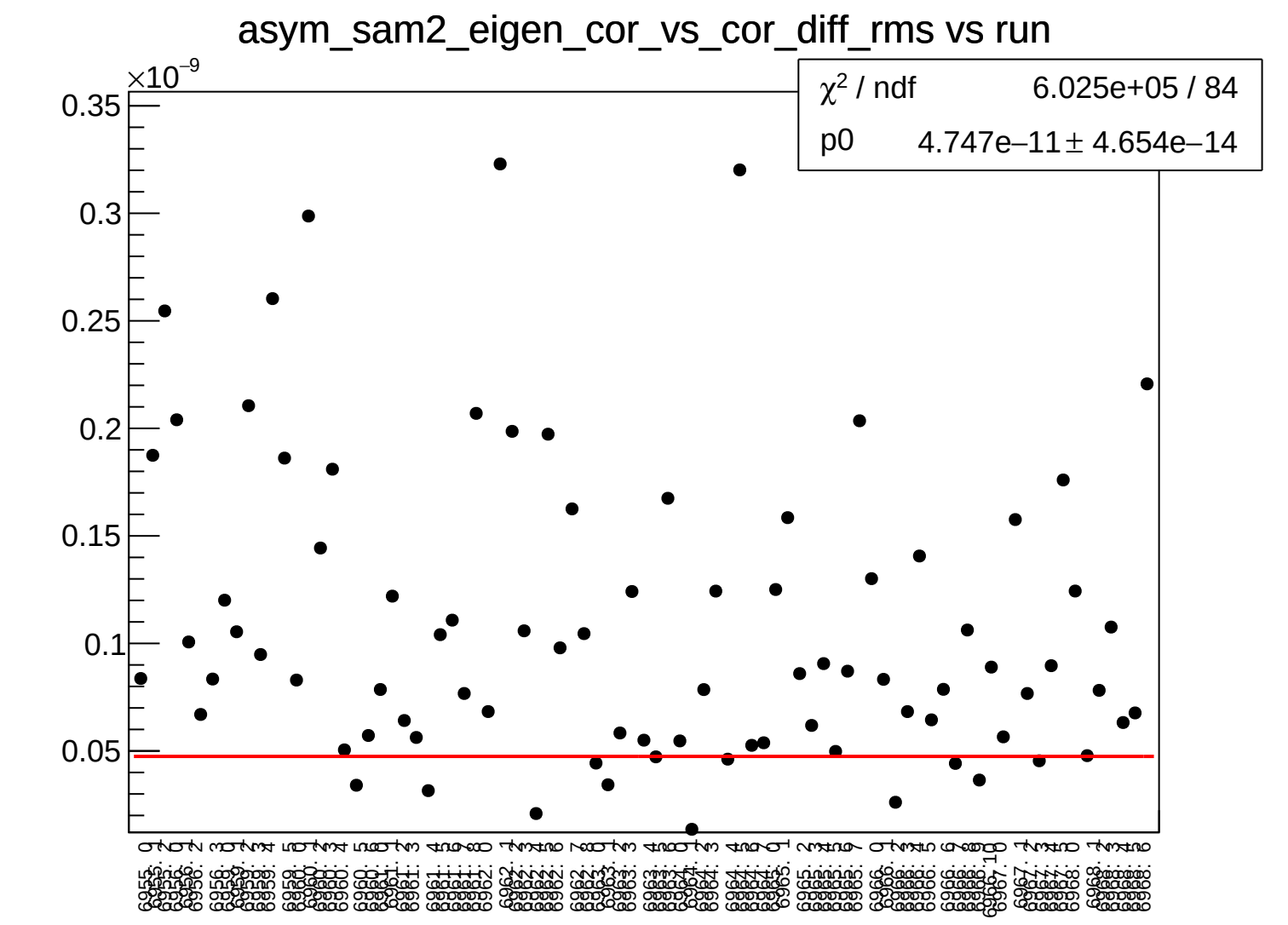

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4978 / 84
p0 136.8 ± 0.1069
160
155
150
145
140
135
130
125
120

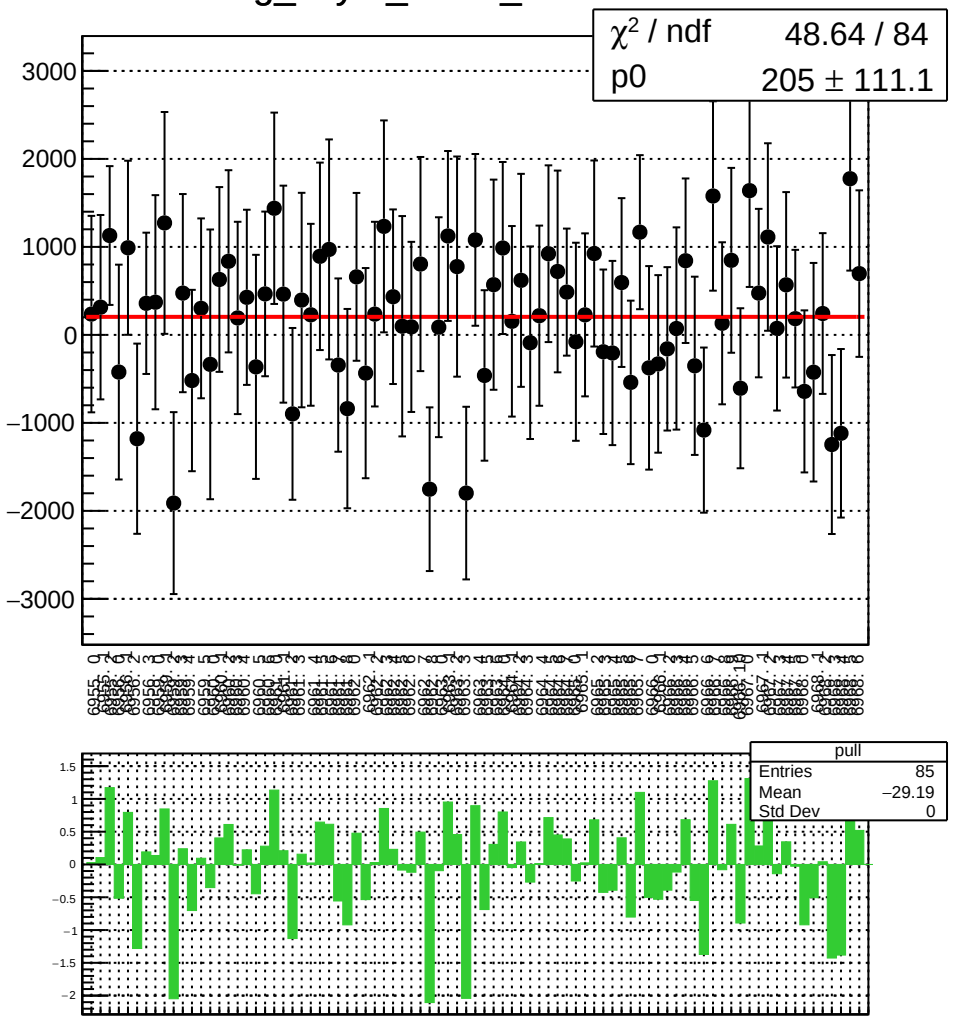

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.35 / 84
p0 0.1661 ± 0.1511
pull
Entries 85
Mean −521.7
Std Dev 0
pull1D
Entries 85
Mean 0.003218
Std Dev 0.9601

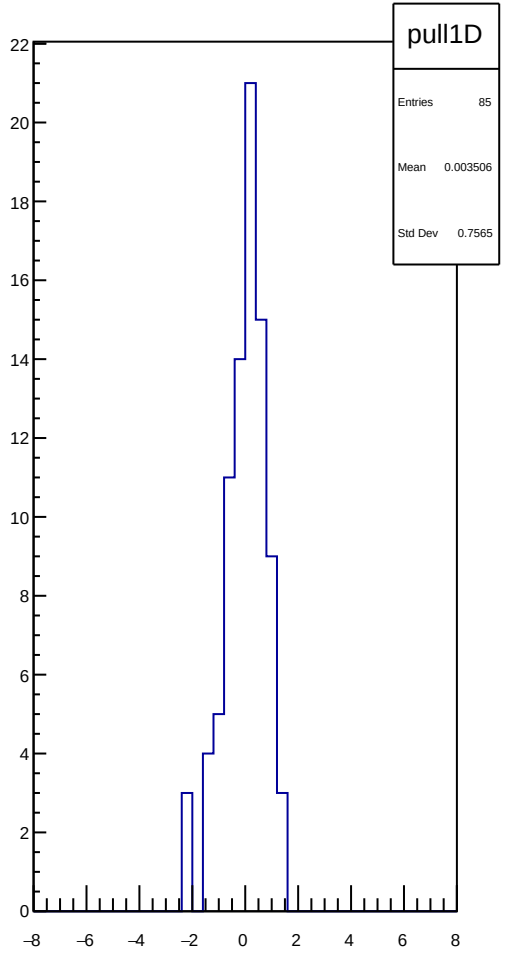

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4978 / 84
p0 136.8 ± 0.1069
160
155
150
145
140
135
130
125
120

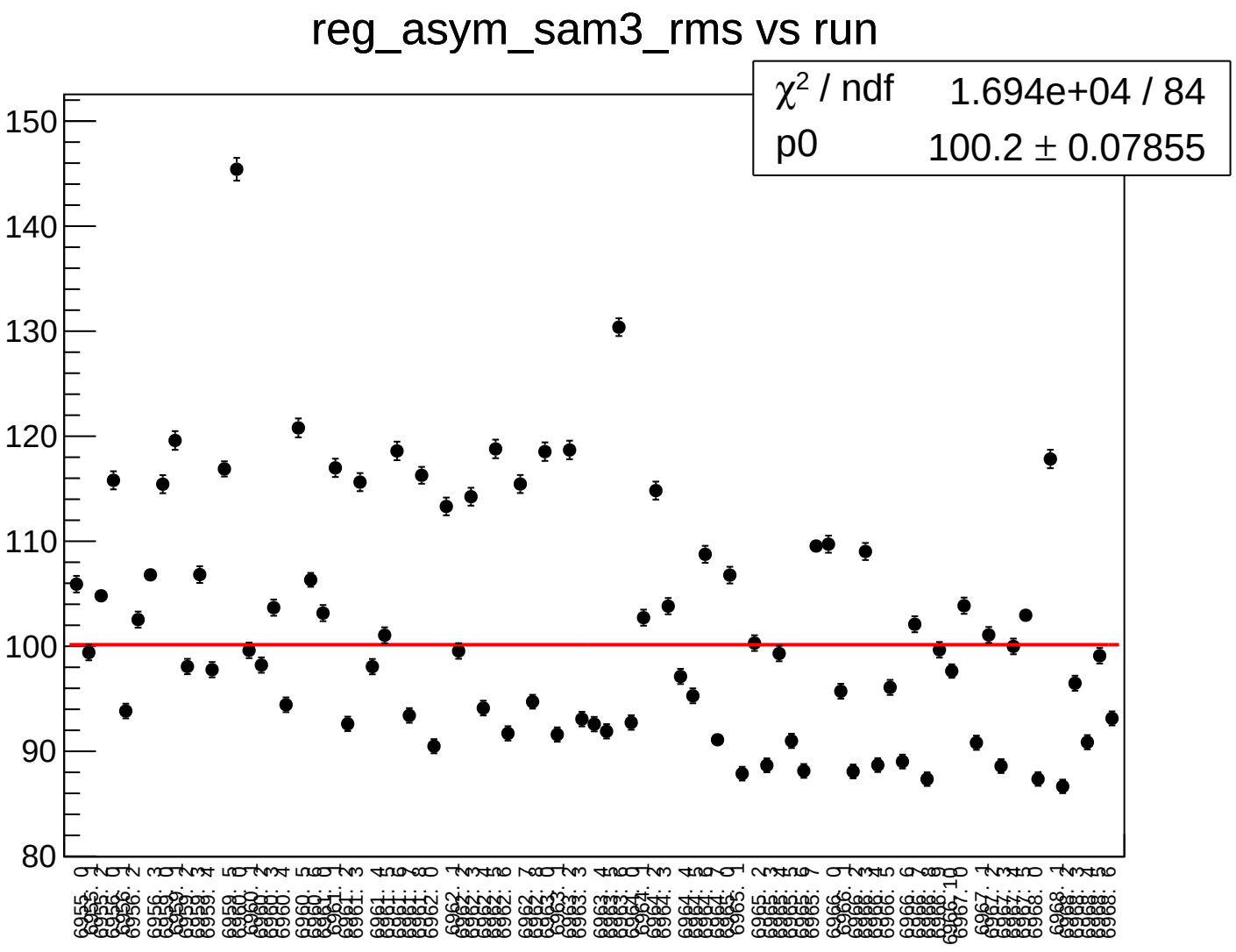

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.25 / 84
p0 6.815e−14 ± 6.582e−14
pull
Entries 85
Mean 403.5
Std Dev 0

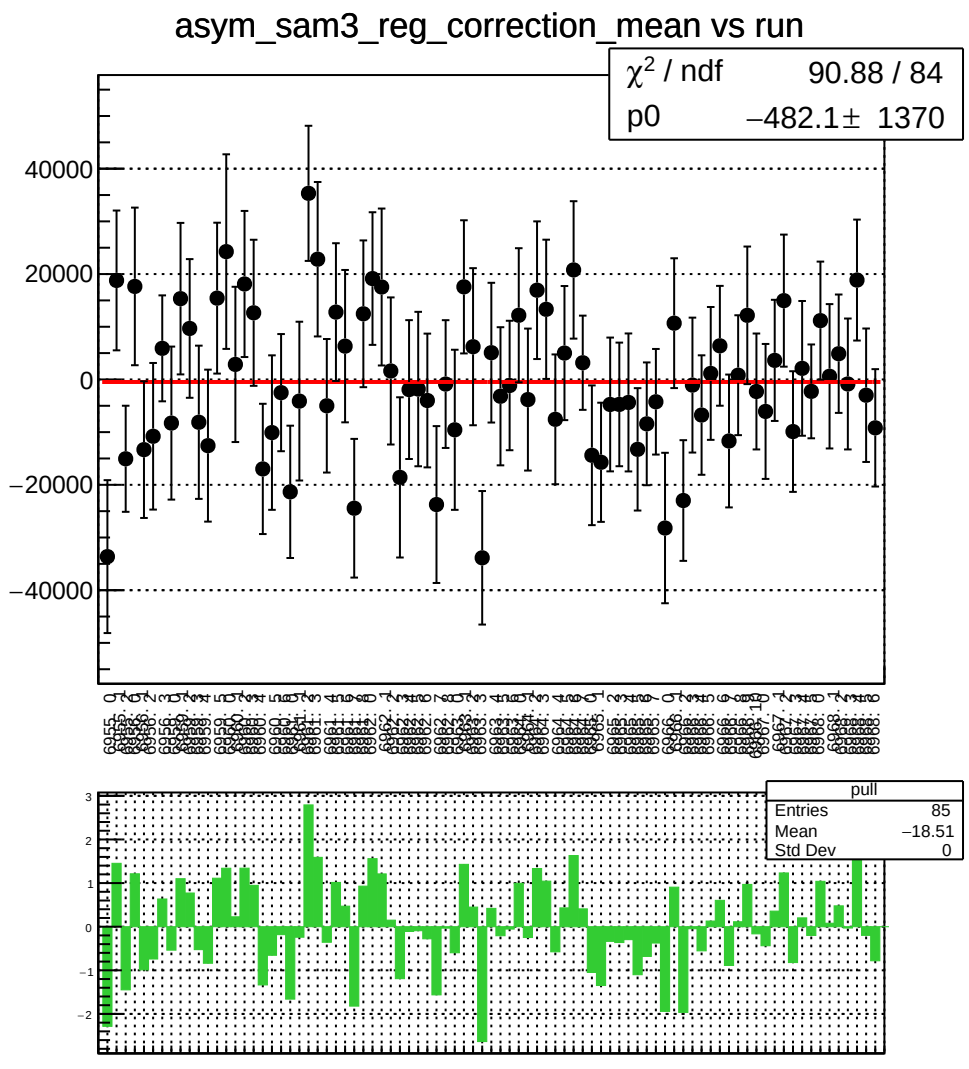

pull1D
Entries 85
Mean −0.01324
Std Dev 1.042

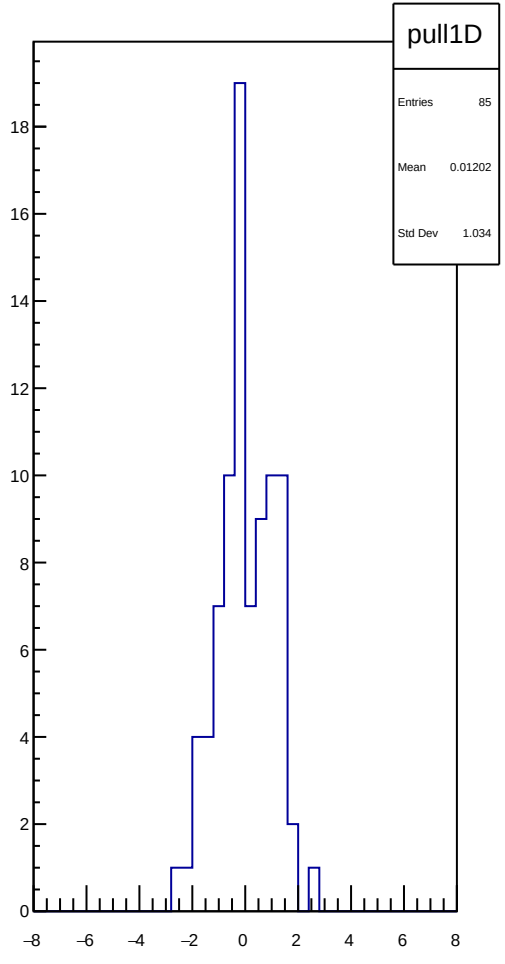

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.025e+05 / 84
p0 4.747e−11 ± 4.654e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

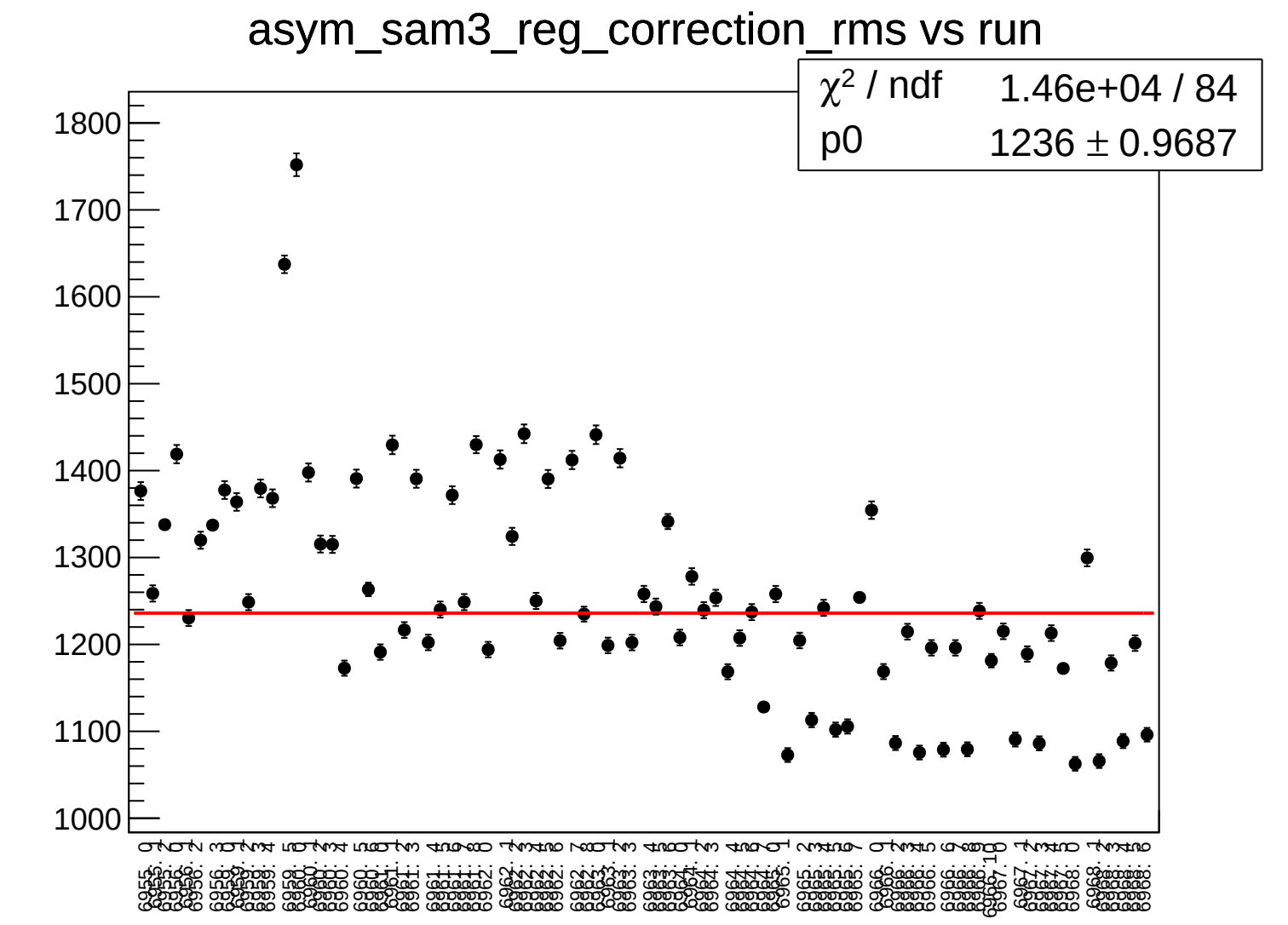

reg_asym_sam3_mean vs run
χ² / ndf 48.64 / 84
p0 205 ± 111.1
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −29.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

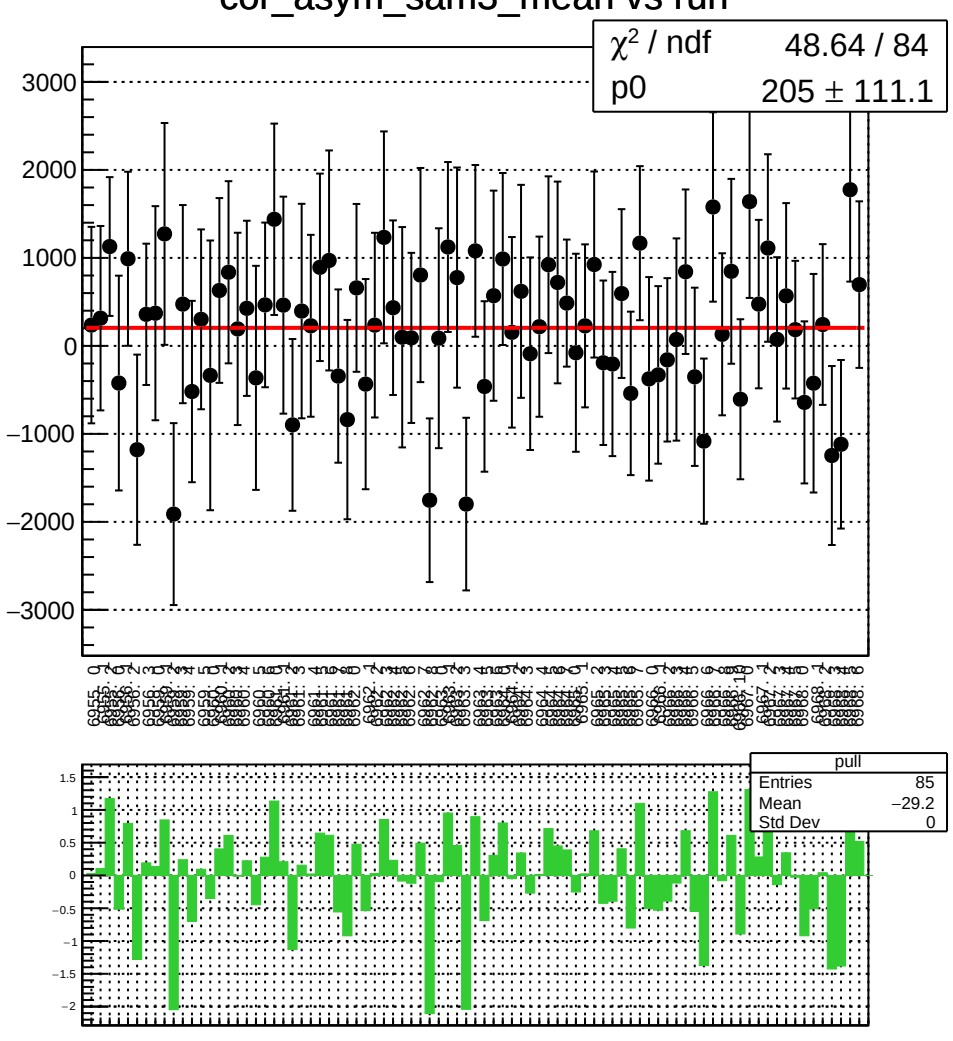

pull1D
Entries 85
Mean 0.003506
Std Dev 0.7565
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

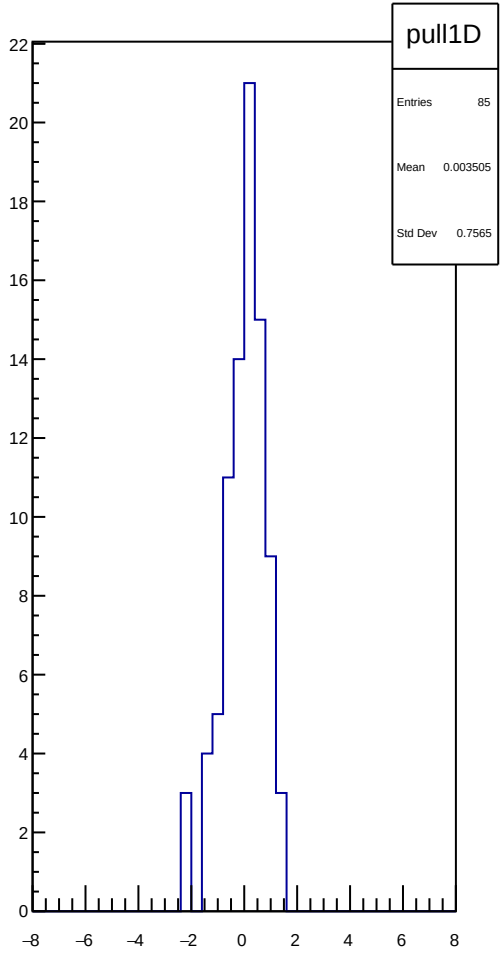

reg_asym_sam3_rms vs run
χ² / ndf 1.694e+04 / 84
p0 100.2 ± 0.07855
150
140
130
120
110
100
90
80

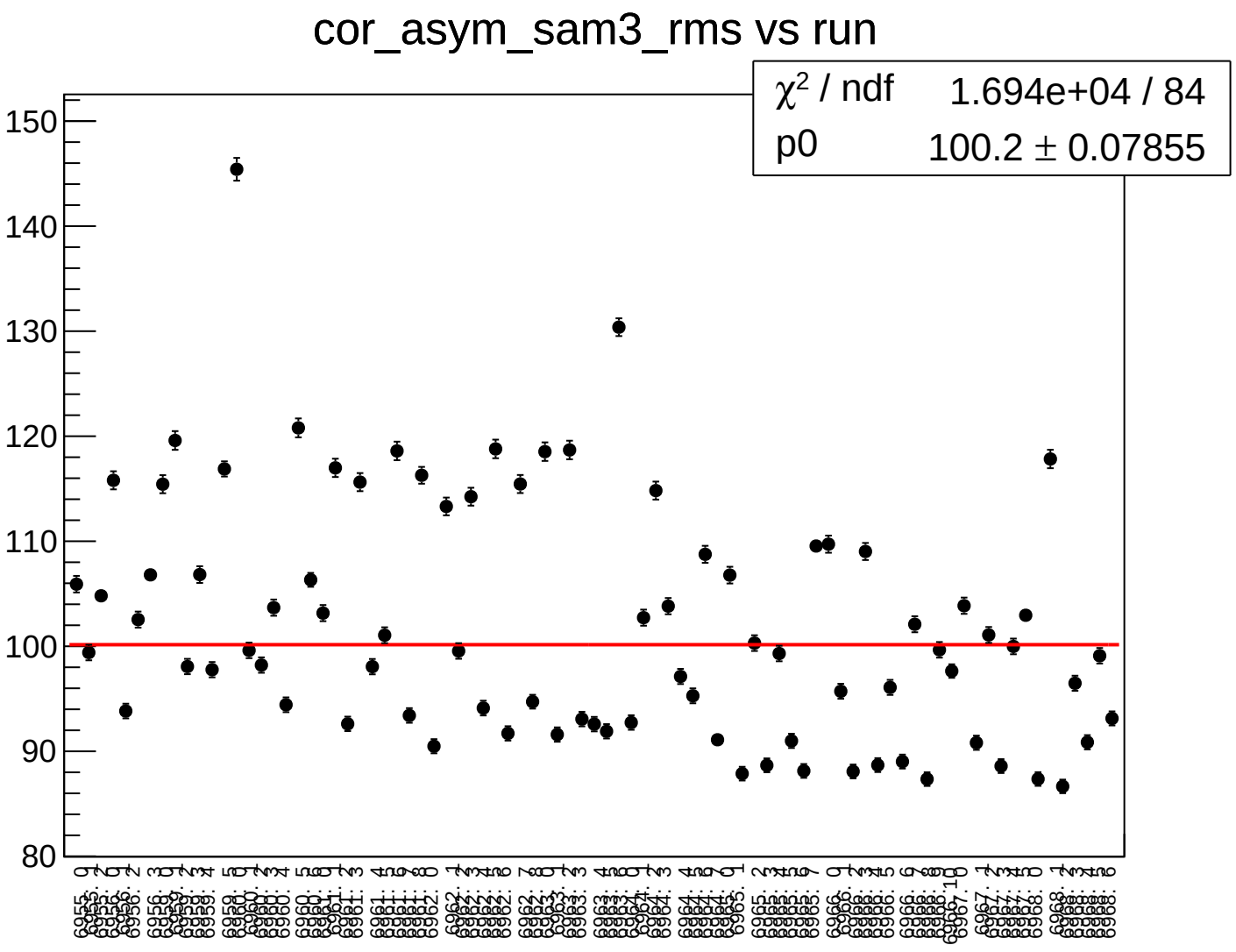

asym_sam3_reg_correction_mean vs run
χ² / ndf 90.88 / 84
p0 −482.1± 1370
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −18.51
Std Dev 0
3
2
1
0
−1
−2

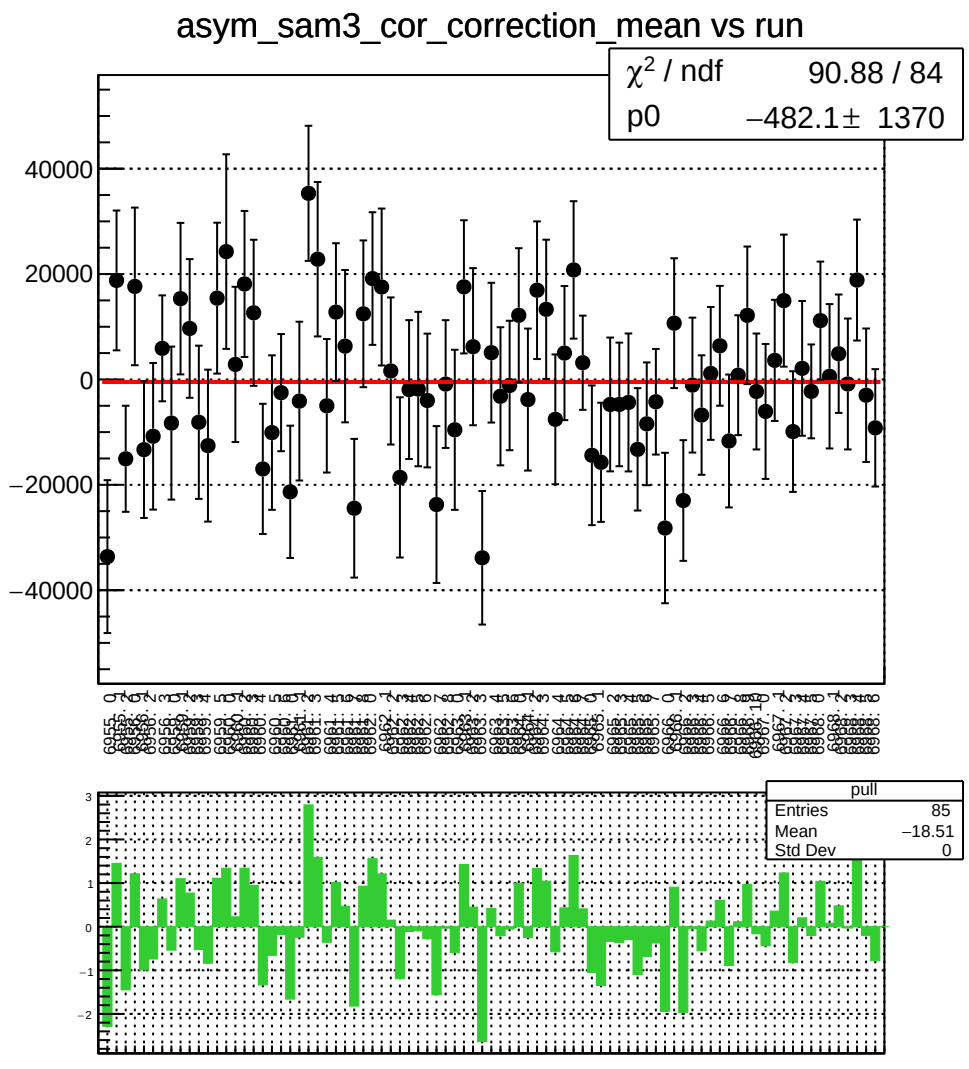

pull1D
Entries 85
Mean 0.01202
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

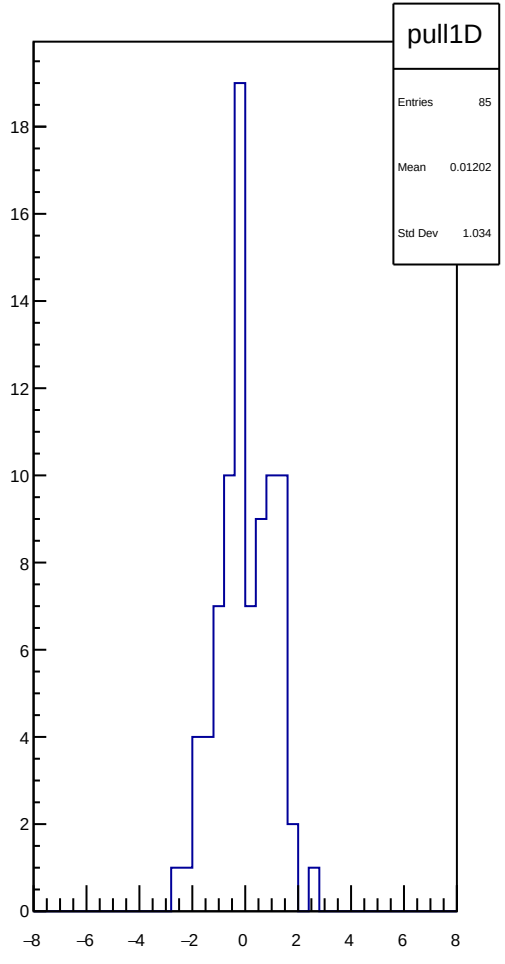

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.46e+04 / 84
p0 1236 ± 0.9687
1800
1700
1600
1500
1400
1300
1200
1100
1000

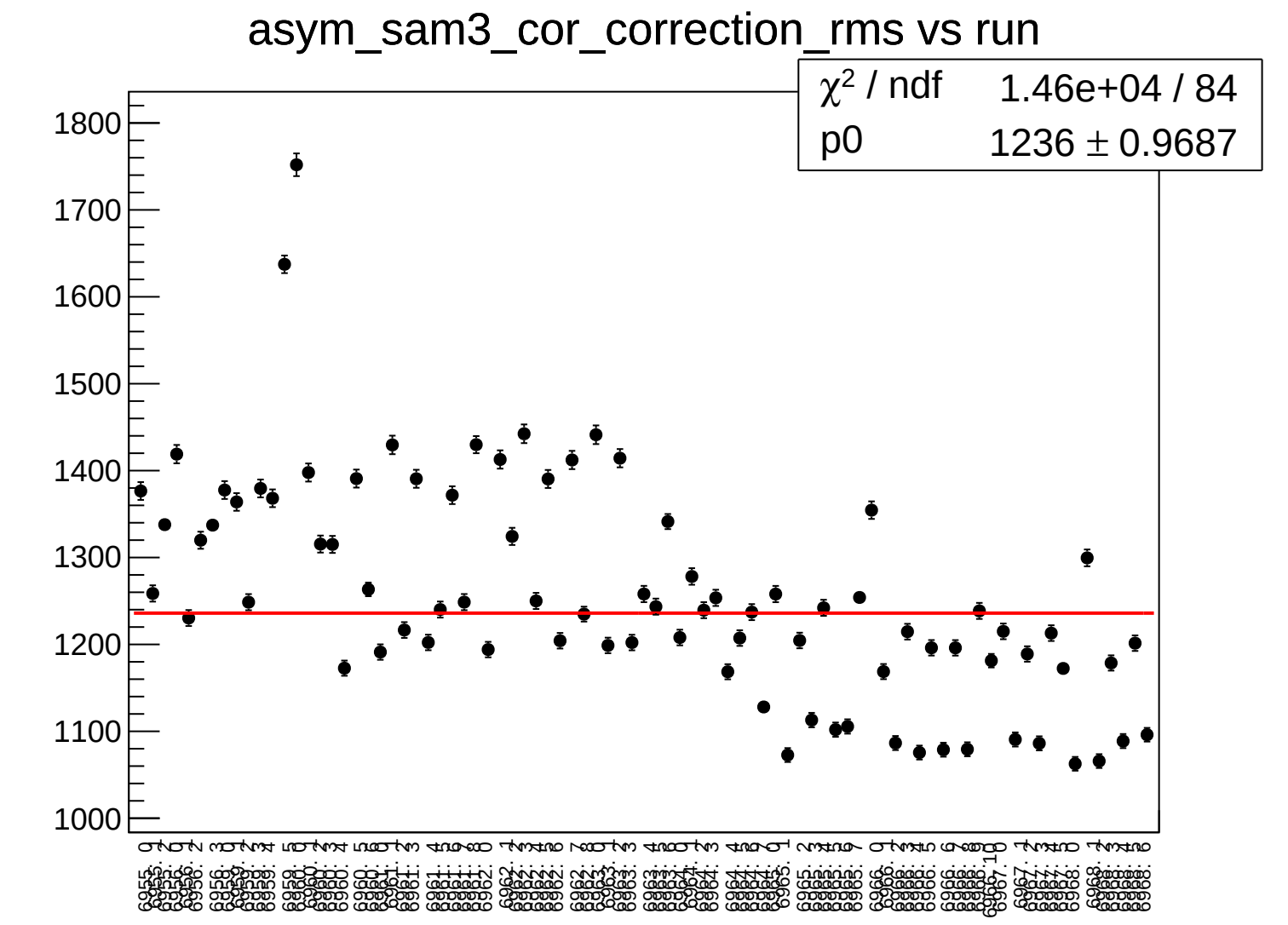

cor_asym_sam3_mean vs run
χ² / ndf 48.64 / 84
p0 205 ± 111.1
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −29.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

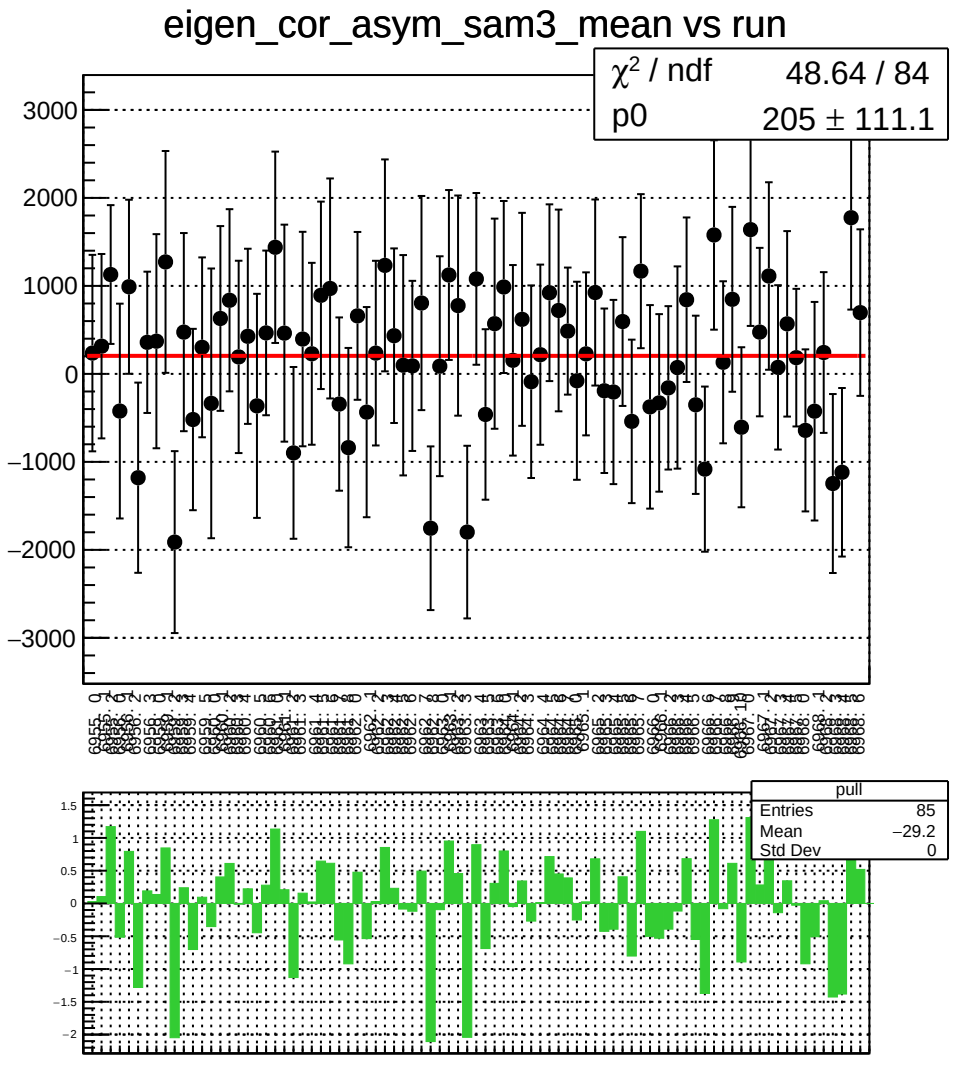

pull1D
Entries 85
Mean 0.003505
Std Dev 0.7565
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

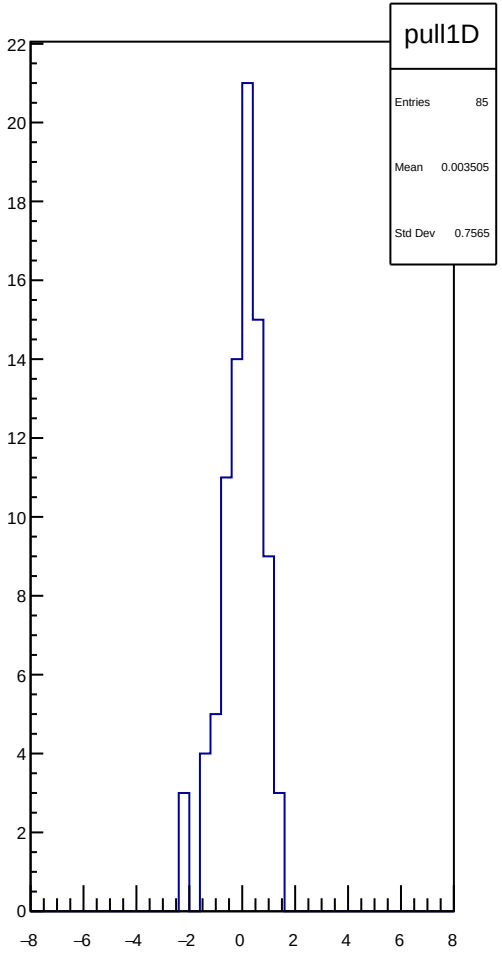

cor_asym_sam3_rms vs run
χ² / ndf 1.694e+04 / 84
p0 100.2 ± 0.07855
150
140
130
120
110
100
90
80

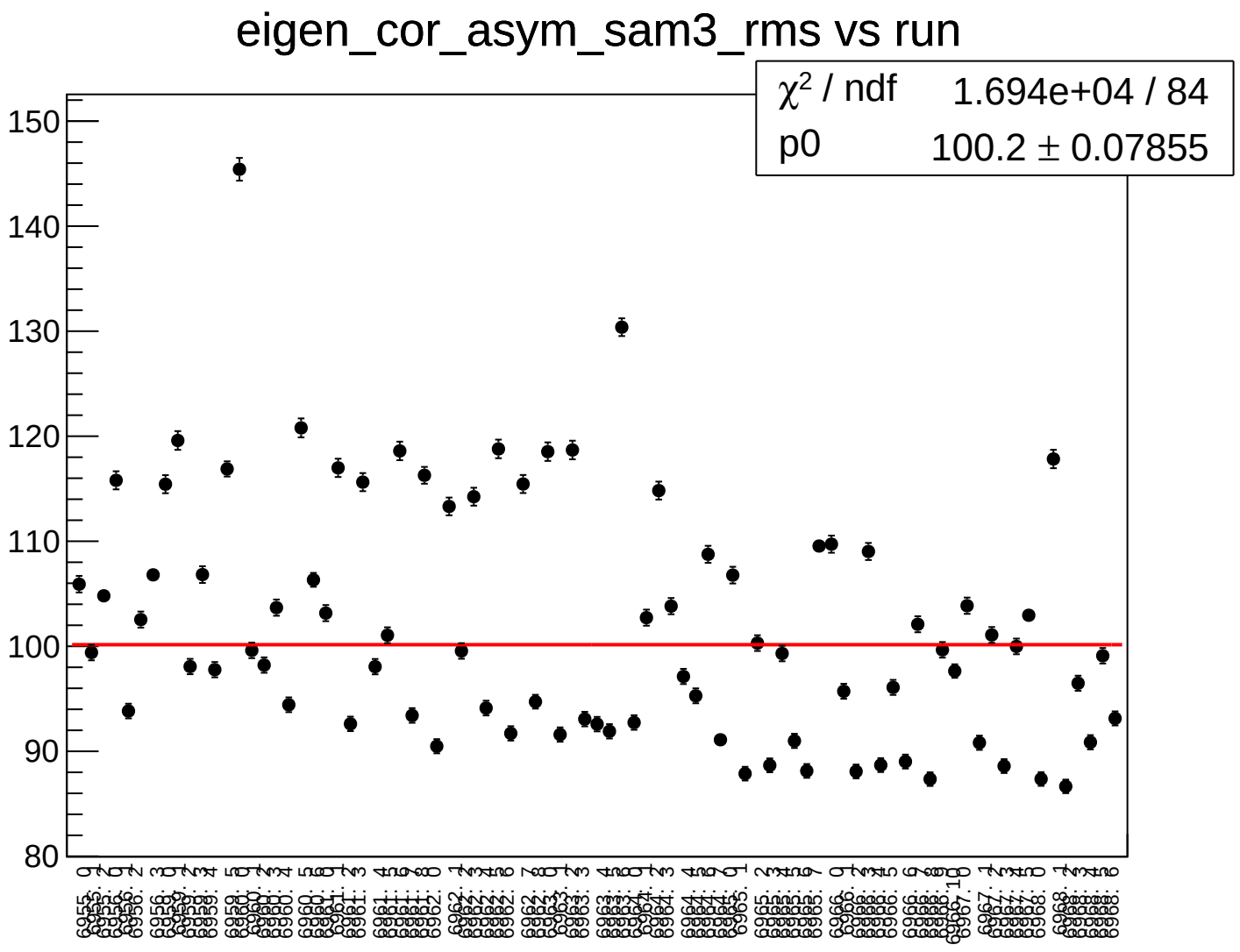

asym_sam3_cor_correction_mean vs run
χ² / ndf 90.88 / 84
p0 −482.1± 1370
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −18.51
Std Dev 0
3
2
1
0
−1
−2

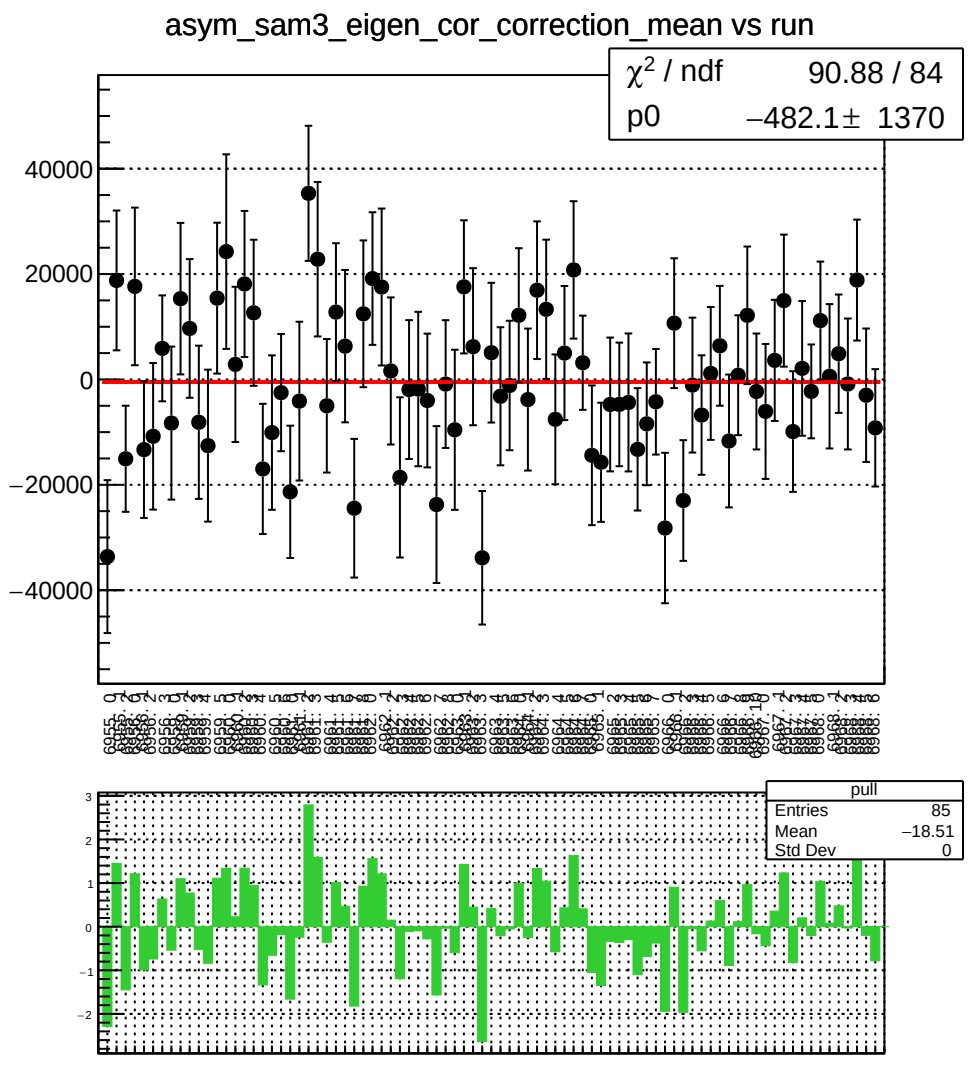

pull1D
Entries 85
Mean 0.01202
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

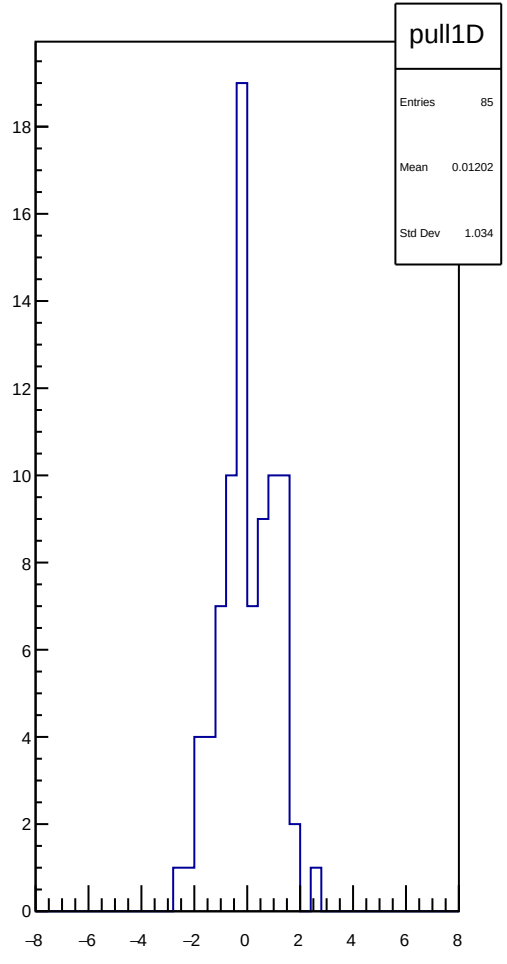

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.46e+04 / 84
p0 1236 ± 0.9687
1800
1700
1600
1500
1400
1300
1200
1100
1000

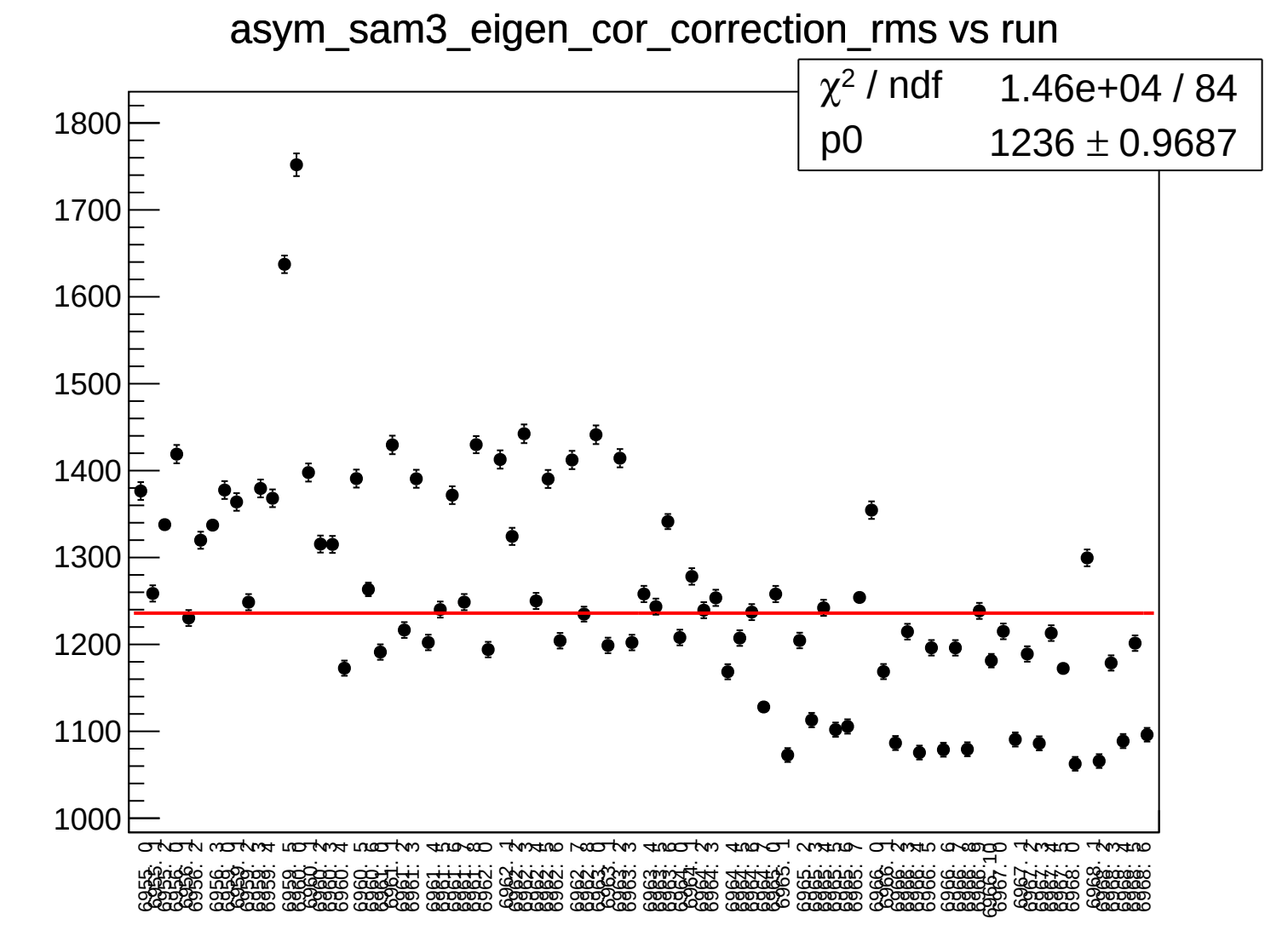

eigen_cor_asym_sam3_mean vs run
χ² / ndf 48.64 / 84
p0 205 ± 111.1
pull
Entries 85
Mean −29.2
Std Dev 0

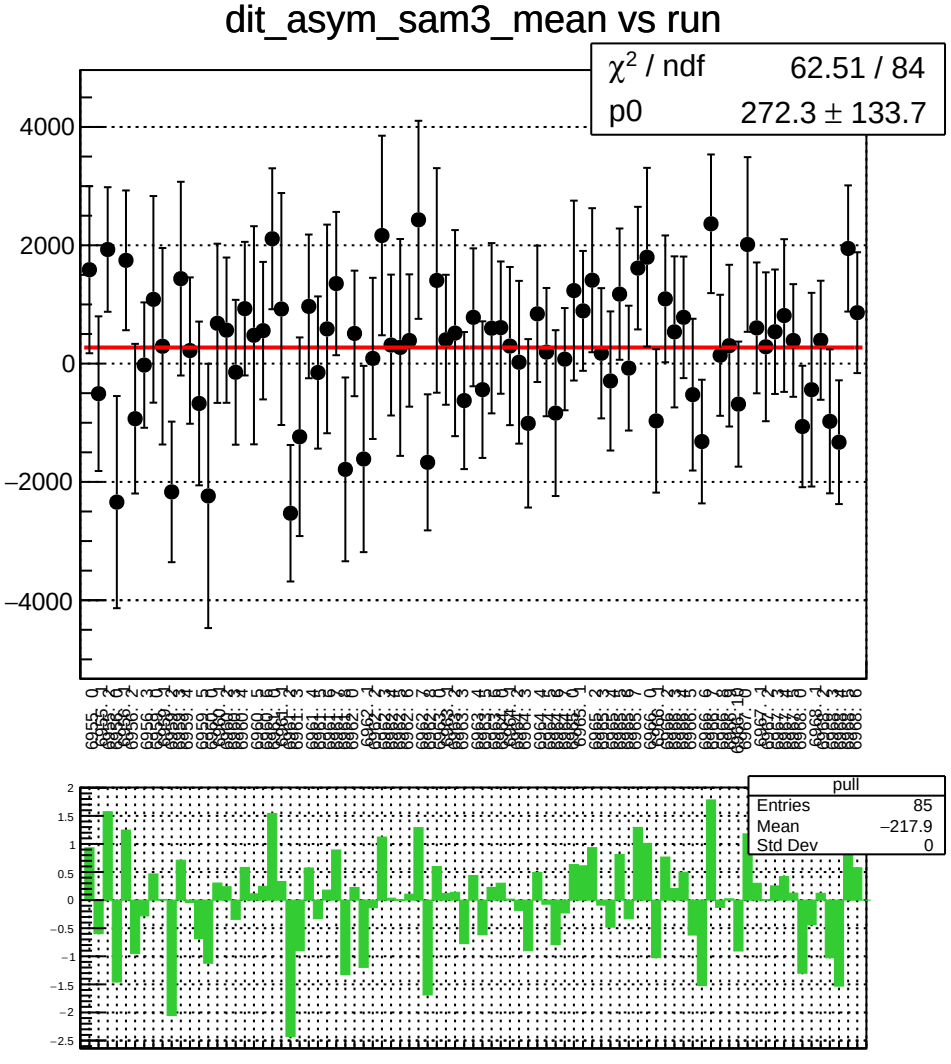

pull1D
Entries 85
Mean 0.003505
Std Dev 0.7565

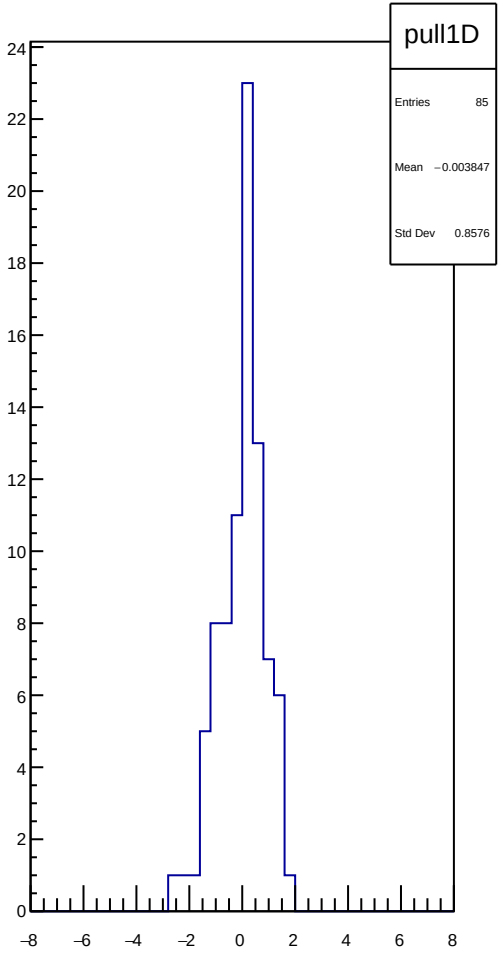

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.694e+04 / 84
p0 100.2 ± 0.07855
150
140
130
120
110
100
90
80

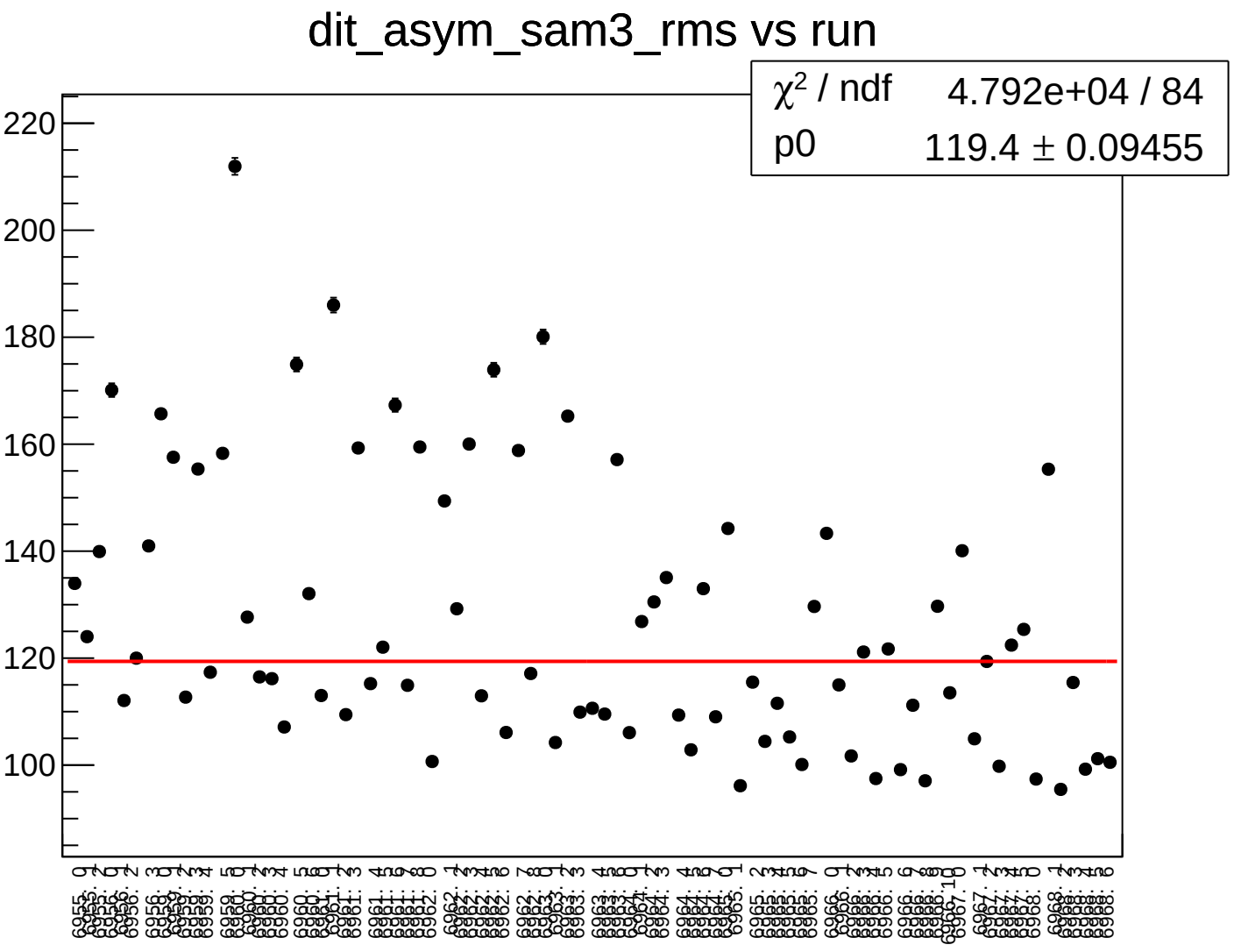

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 90.88 / 84
p0 −482.1± 1370
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −18.51
Std Dev 0
3
2
1
0
−1
−2

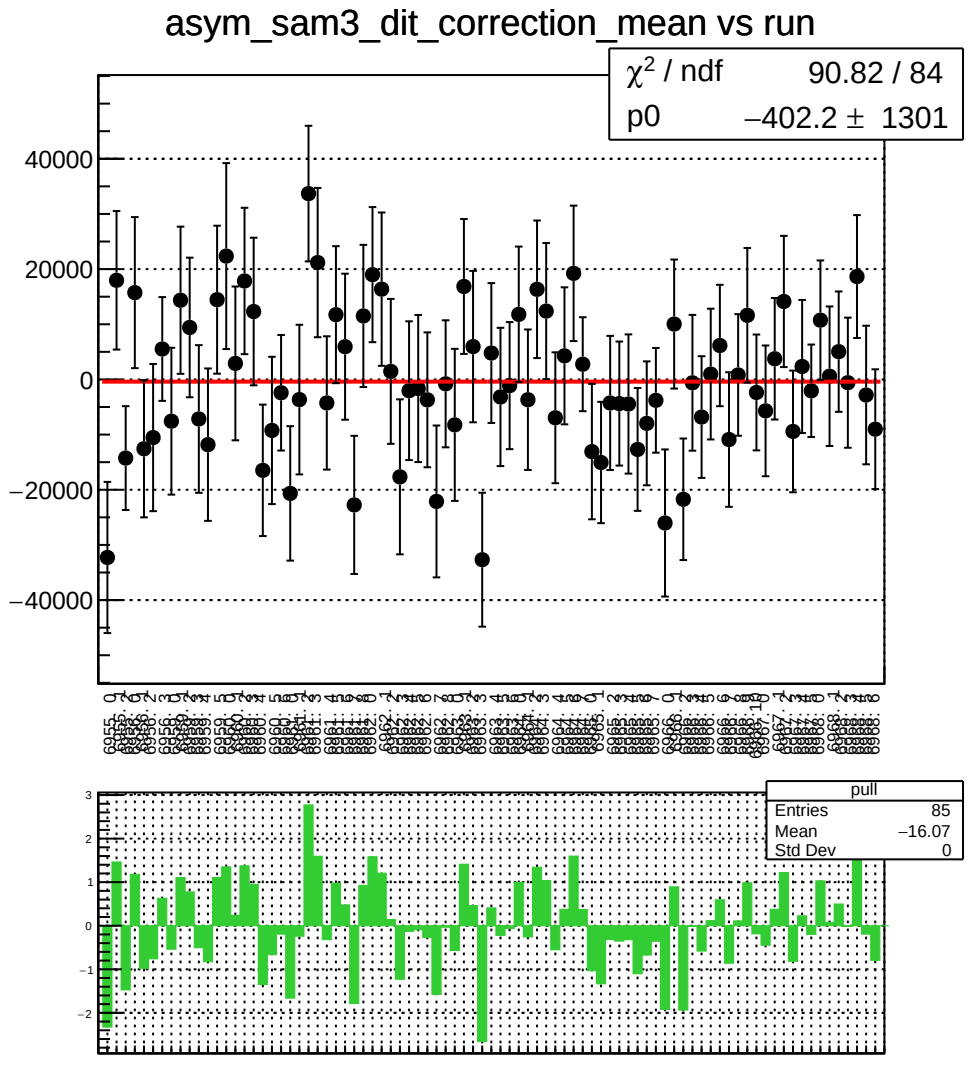

pull1D
Entries 85
Mean 0.01202
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

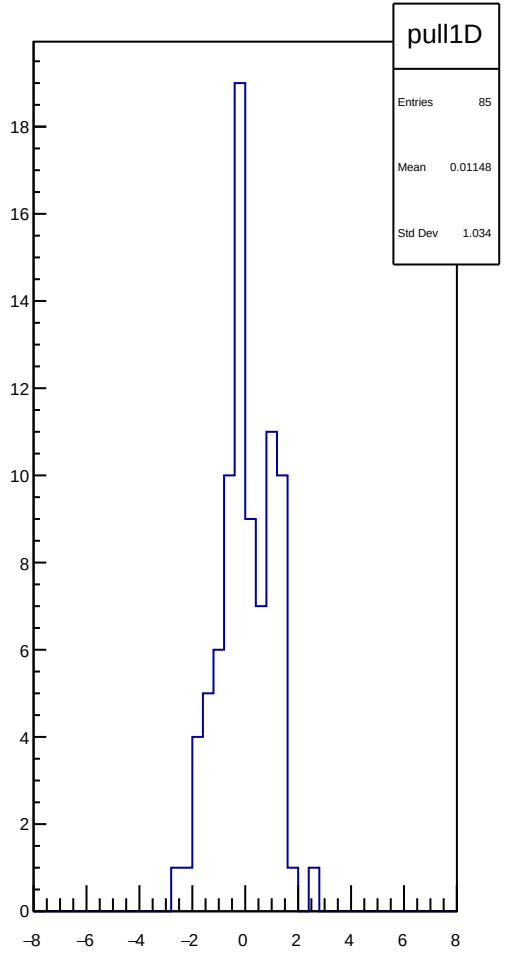

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.46e+04 / 84
p0 1236 ± 0.9687
1800
1700
1600
1500
1400
1300
1200
1100
1000

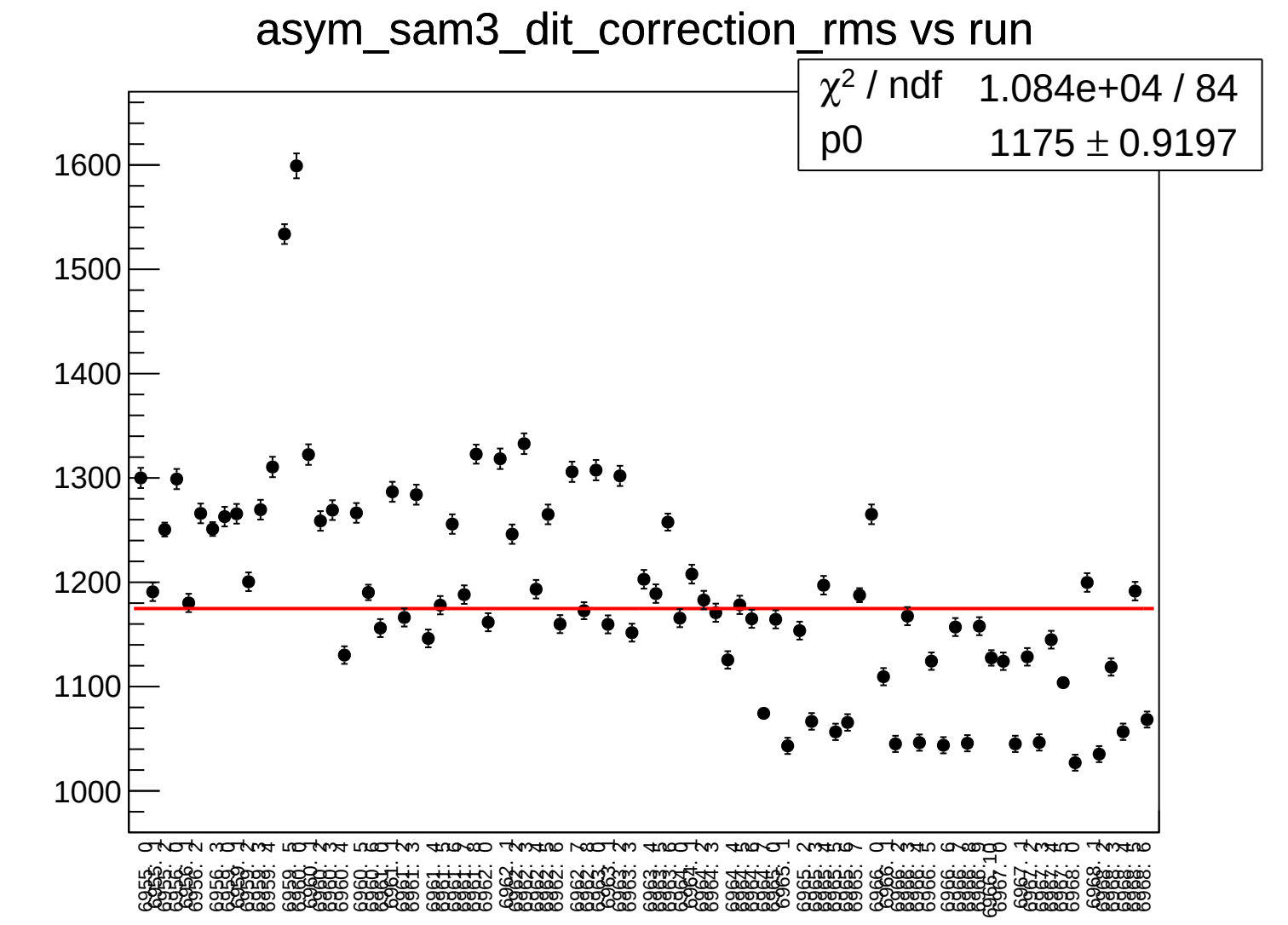

dit_asym_sam3_mean vs run
$\chi^2$ / ndf 62.51 / 84
p0 272.3 ± 133.7
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −217.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

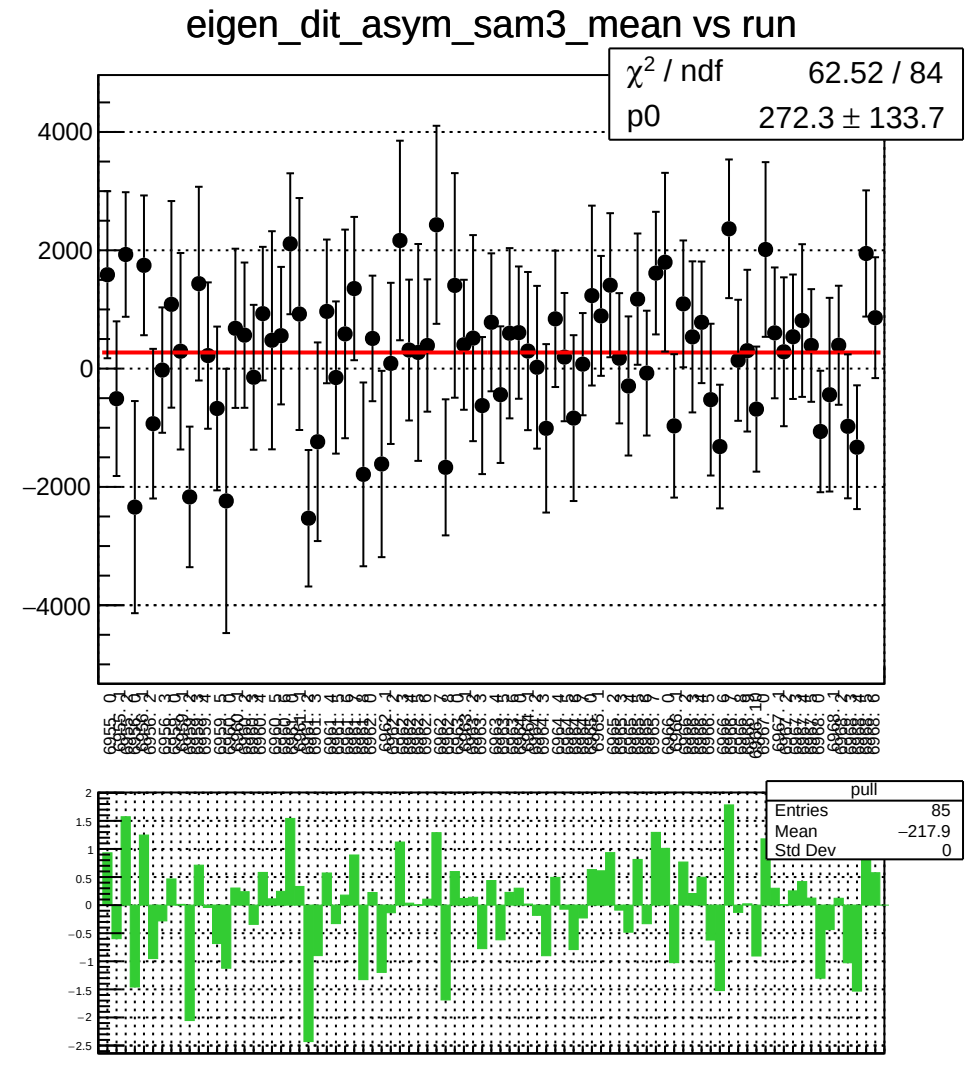

pull1D
Entries 85
Mean −0.003847
Std Dev 0.8576
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

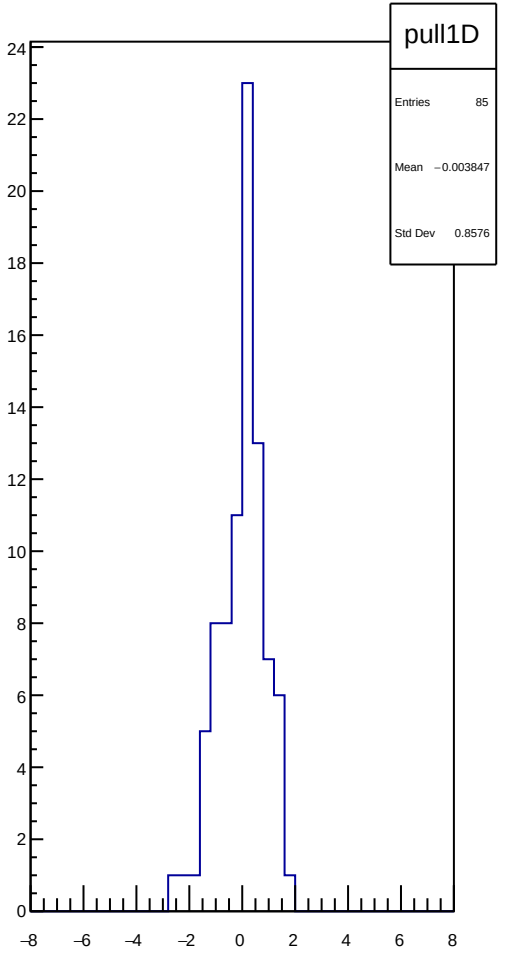

dit_asym_sam3_rms vs run
$\chi^2$ / ndf 4.792e+04 / 84
p0 119.4 ± 0.09455
220
200
180
160
140
120
100

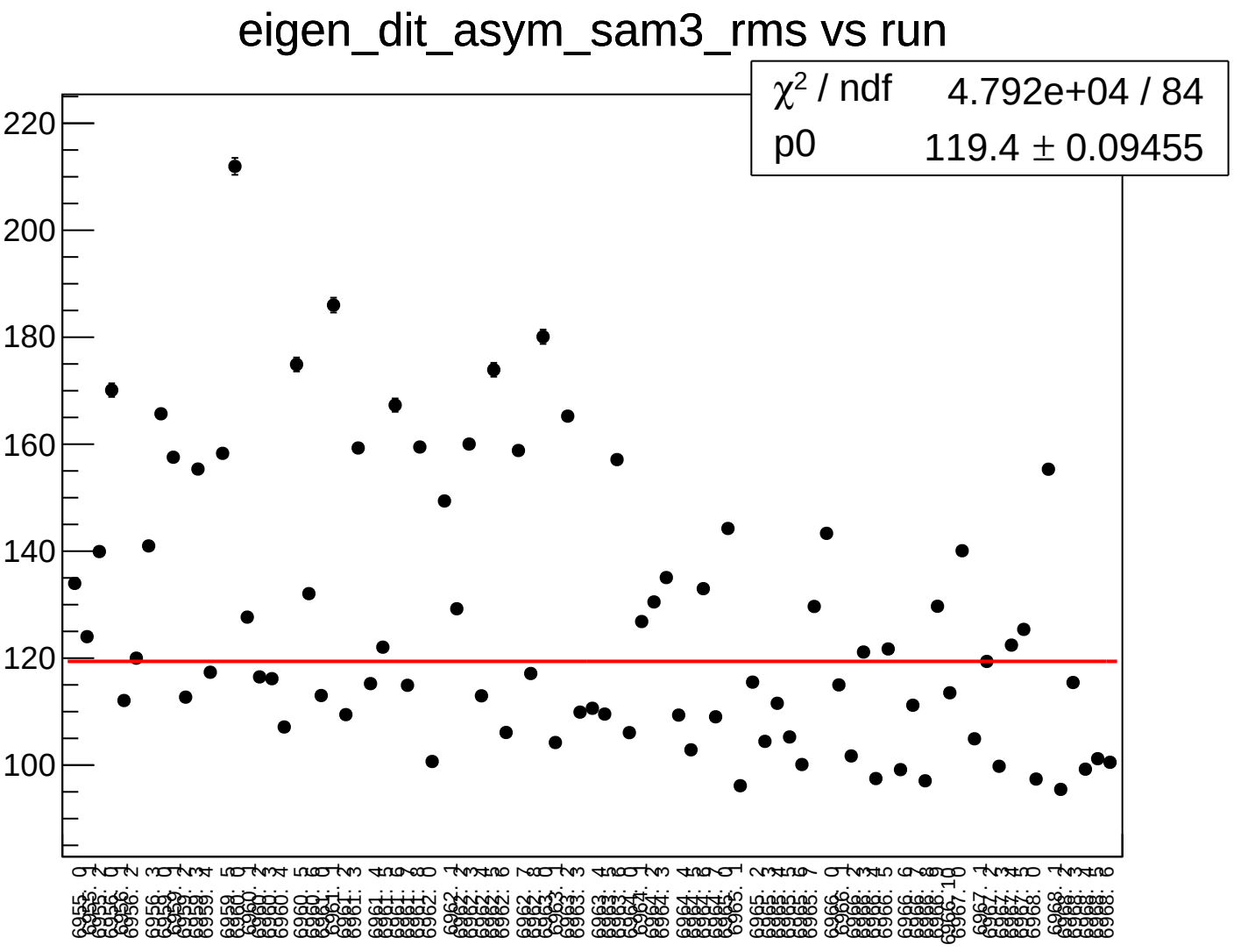

asym_sam3_dit_correction_mean vs run
χ² / ndf 90.82 / 84
p0 −402.2 ± 1301
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −16.07
Std Dev 0
3
2
1
0
−1
−2

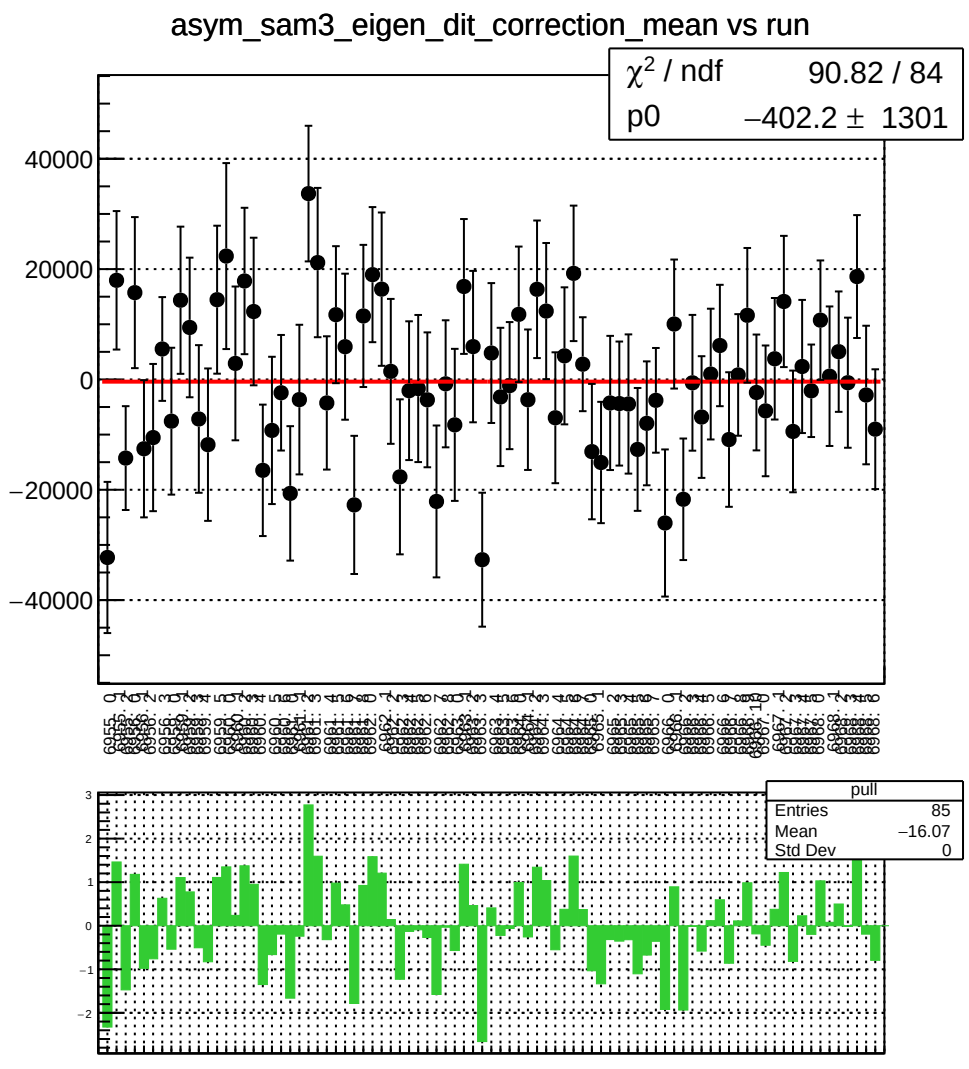

pull1D
Entries 85
Mean 0.01148
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

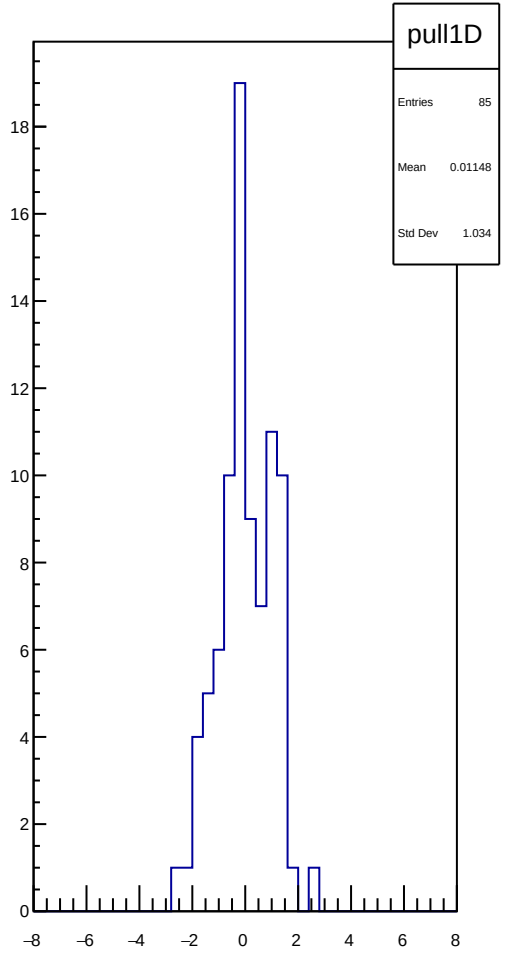

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.084e+04 / 84
p0 1175 ± 0.9197
1600
1500
1400
1300
1200
1100
1000

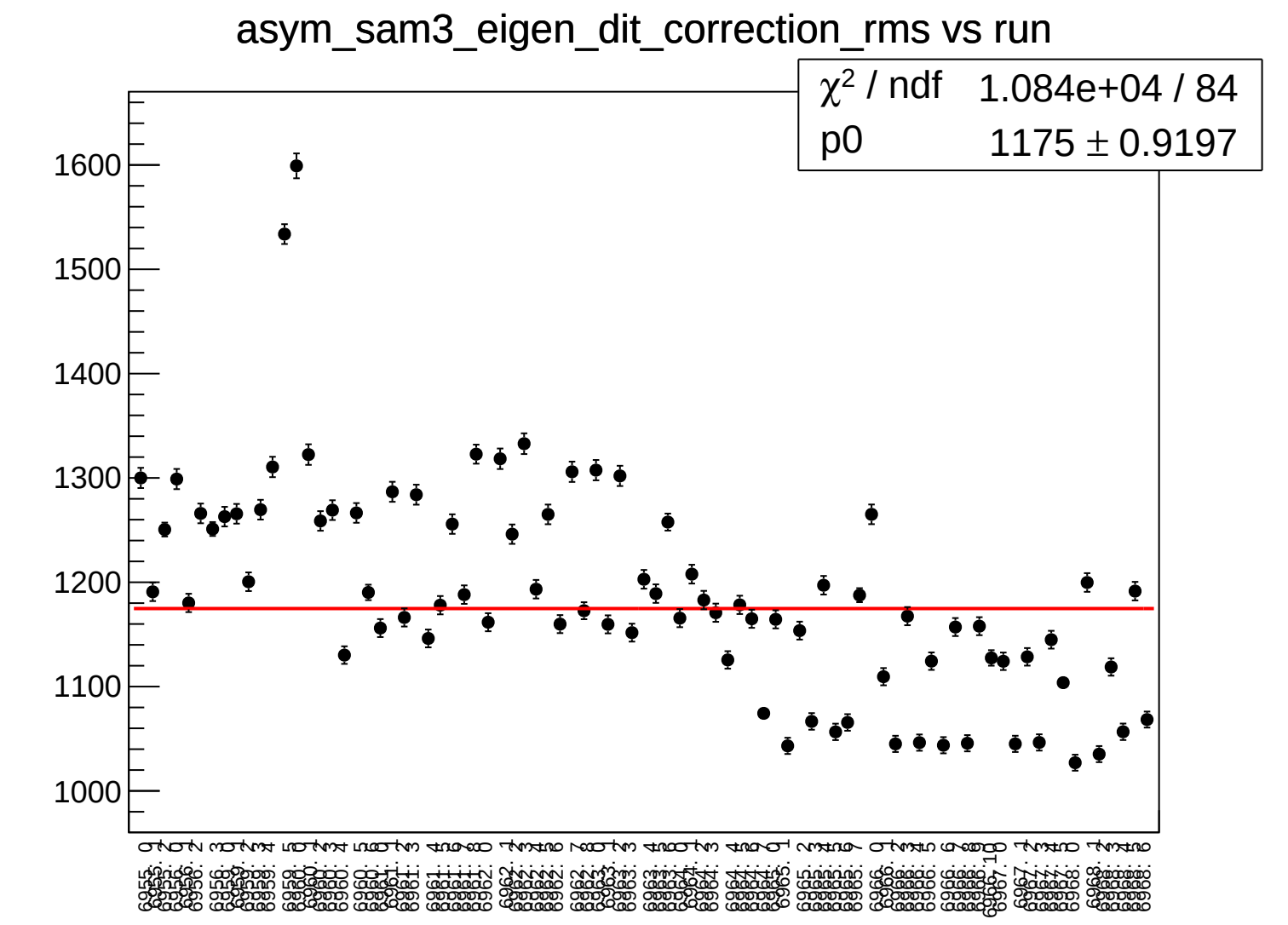

eigen_dit_asym_sam3_mean vs run
χ² / ndf 62.52 / 84
p0 272.3 ± 133.7
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −217.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

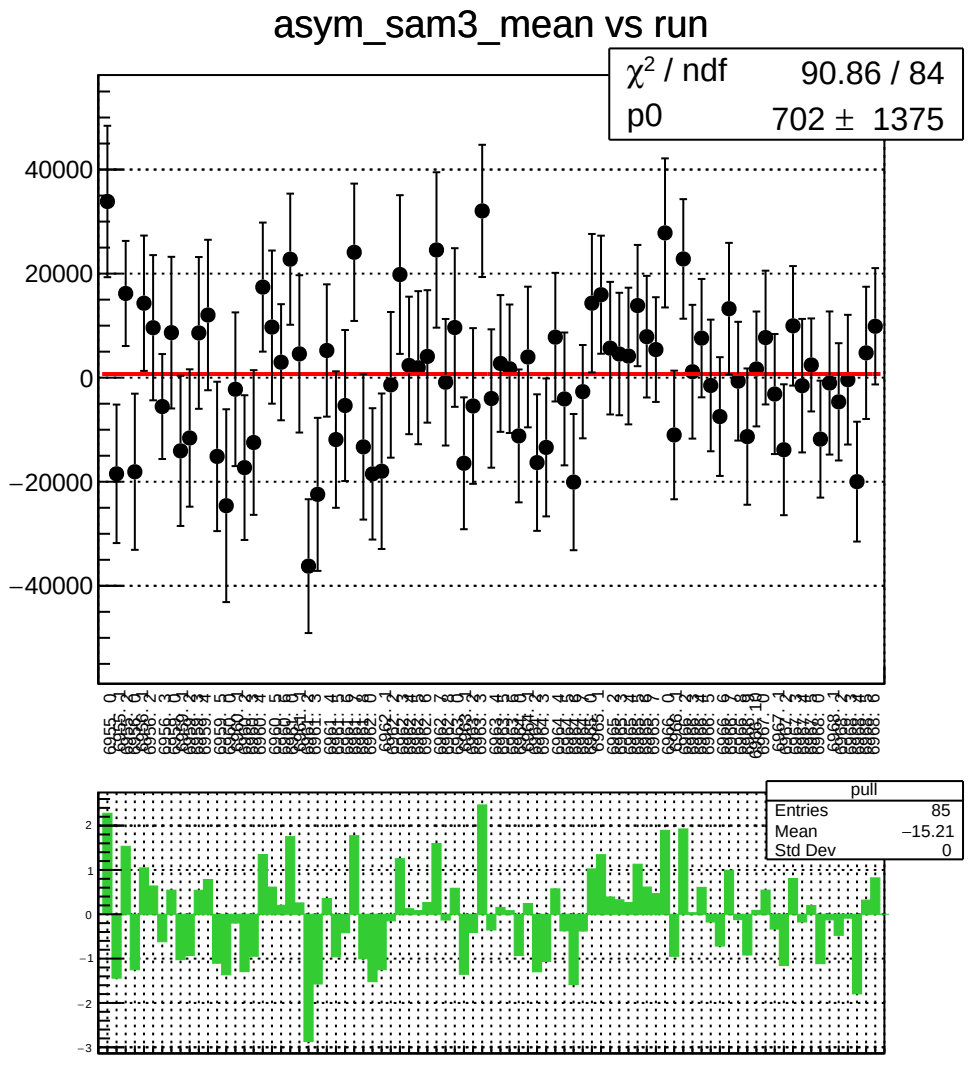

pull1D
Entries 85
Mean −0.003847
Std Dev 0.8576
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

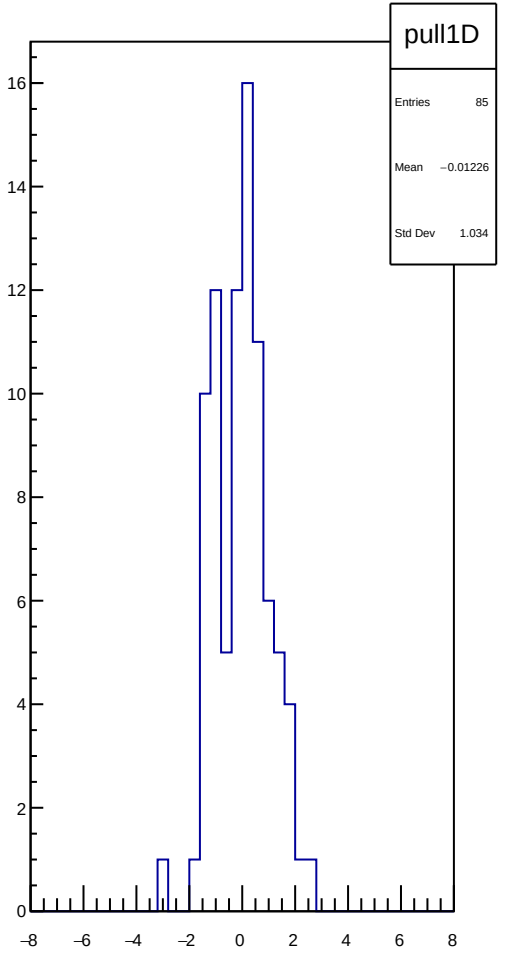

eigen_dit_asym_sam3_rms vs run
$\chi^2$ / ndf 4.792e+04 / 84
p0 119.4 ± 0.09455
220
200
180
160
140
120
100

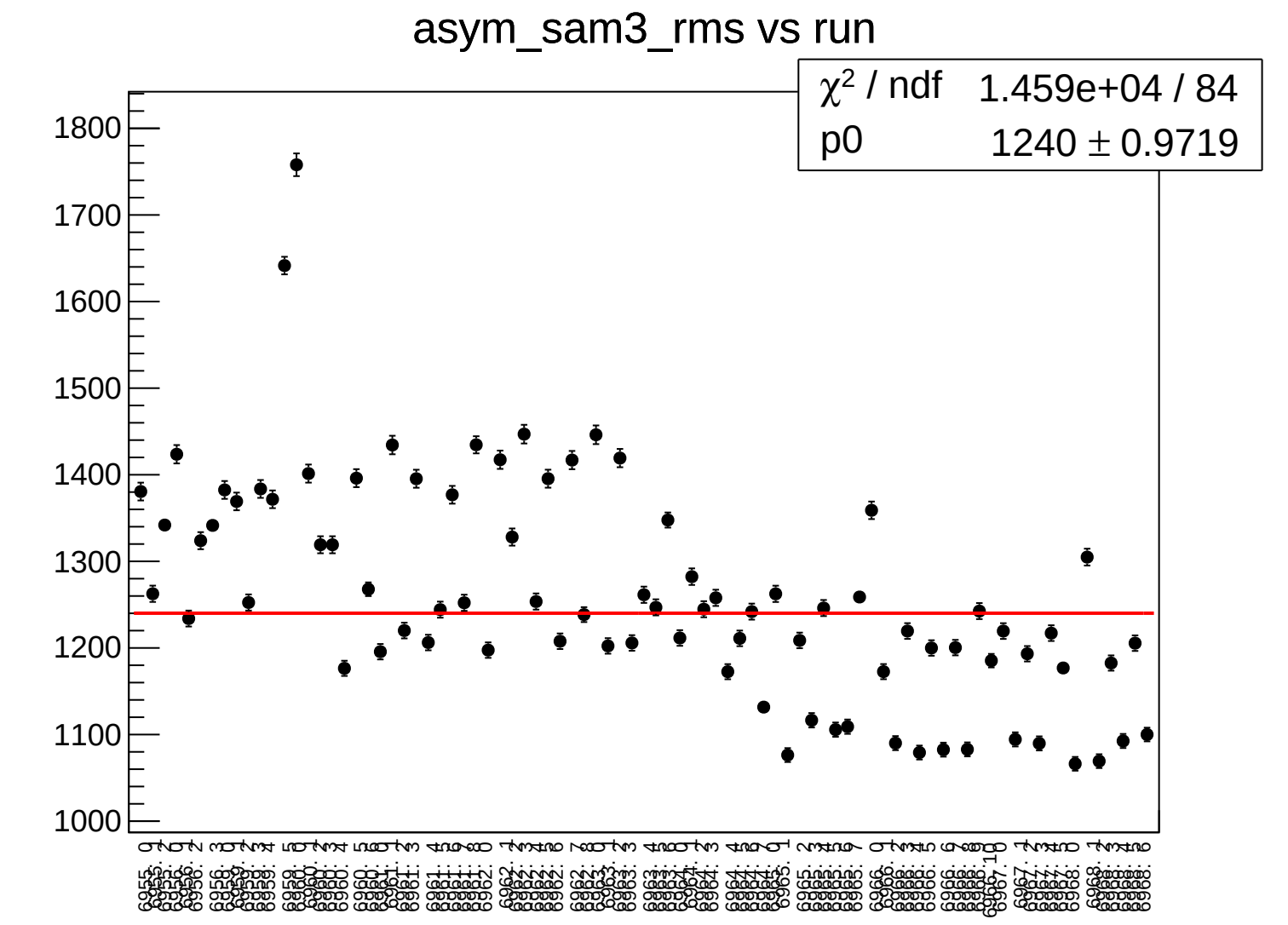

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 90.82 / 84
p0 −402.2 ± 1301
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −16.07
Std Dev 0
3
2
1
0
−1
−2

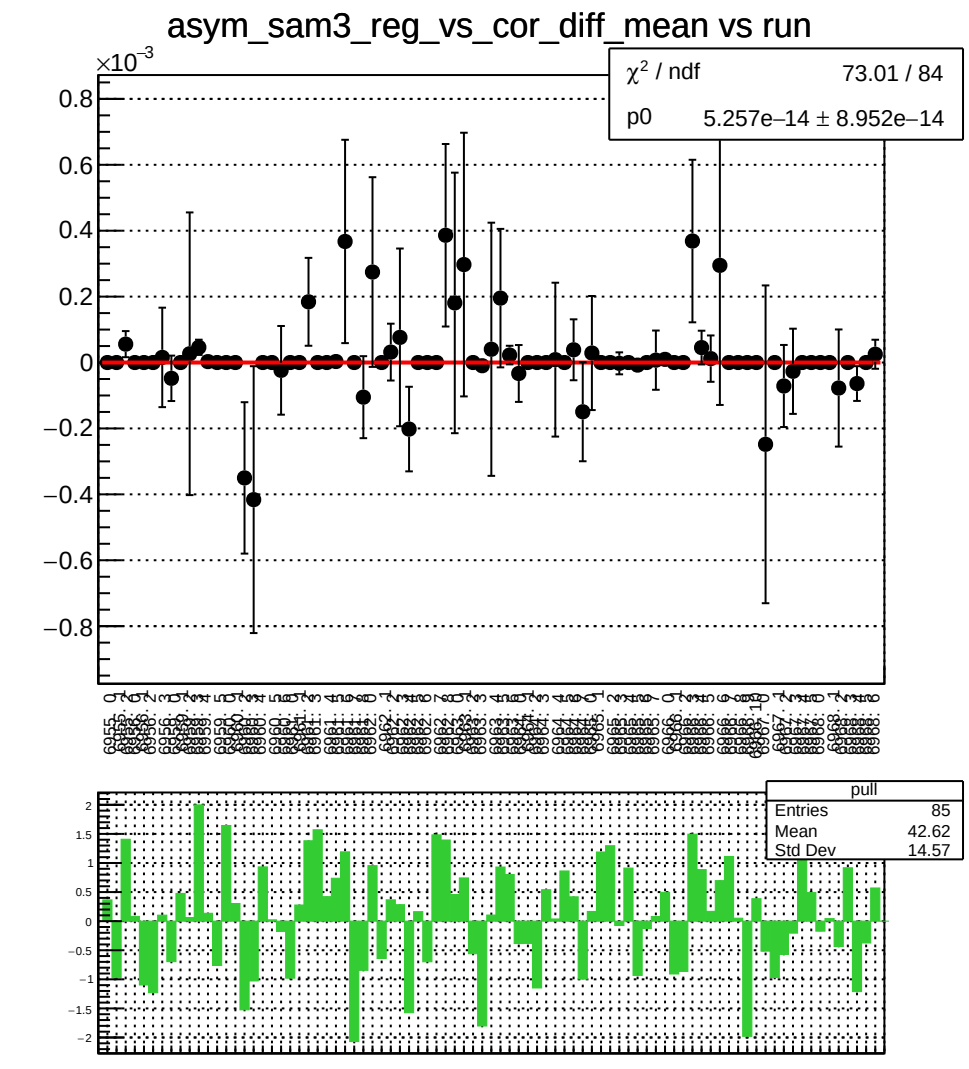

pull1D
Entries 85
Mean 0.01148
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

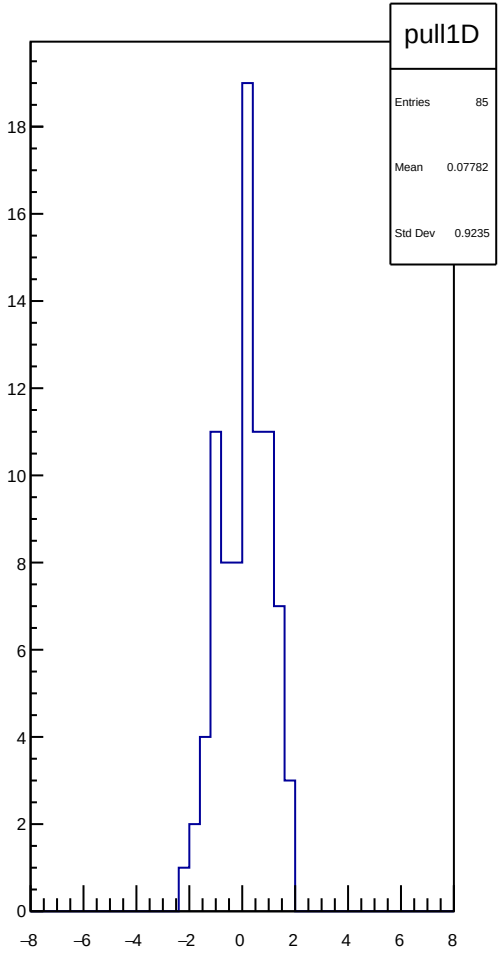

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.084e+04 / 84
p0 1175 ± 0.9197
1600
1500
1400
1300
1200
1100
1000

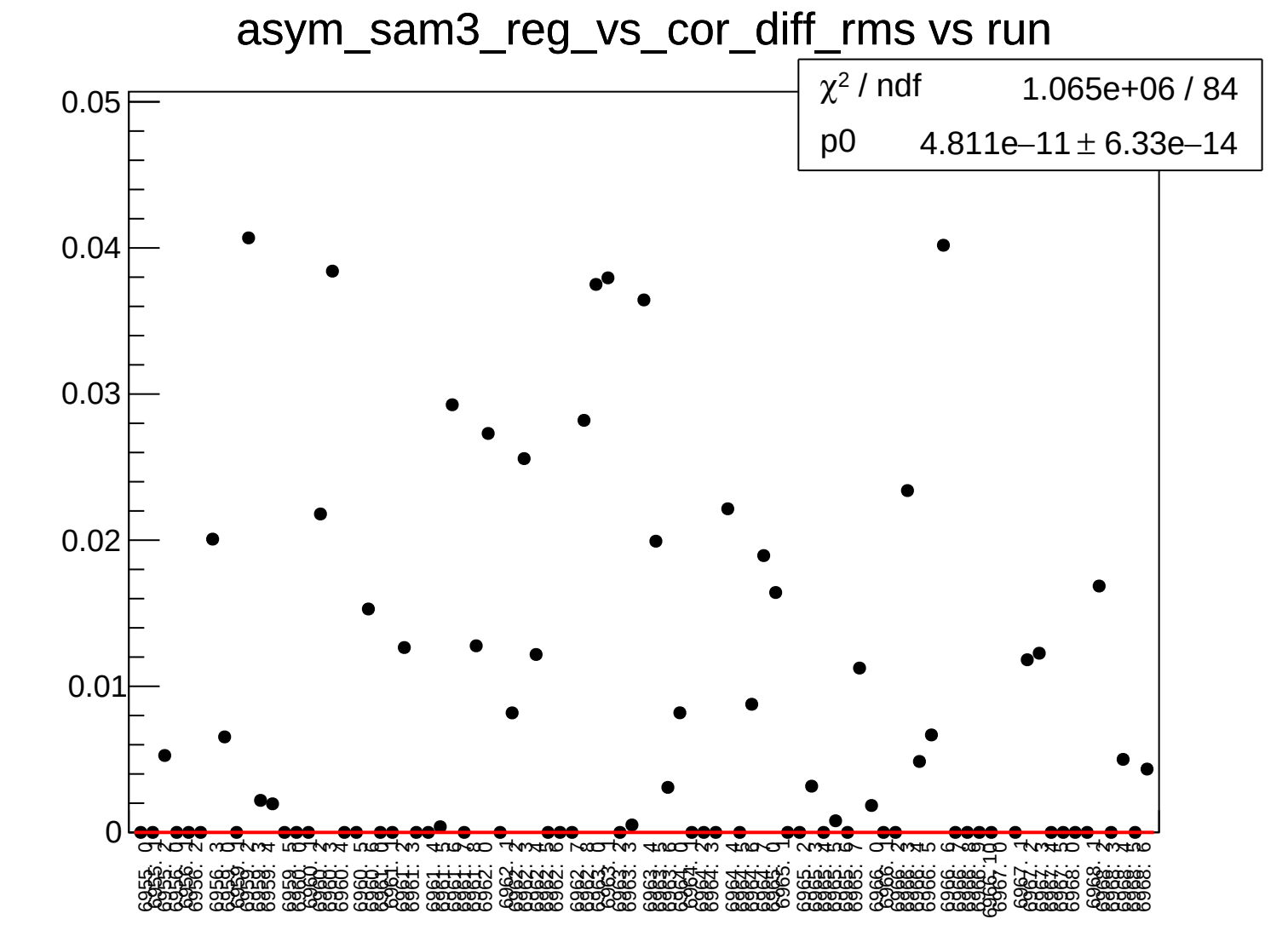

asym_sam3_mean vs run
χ² / ndf 90.86 / 84
p0 702 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −15.21
Std Dev 0
2
1
0
−1
−2
−3

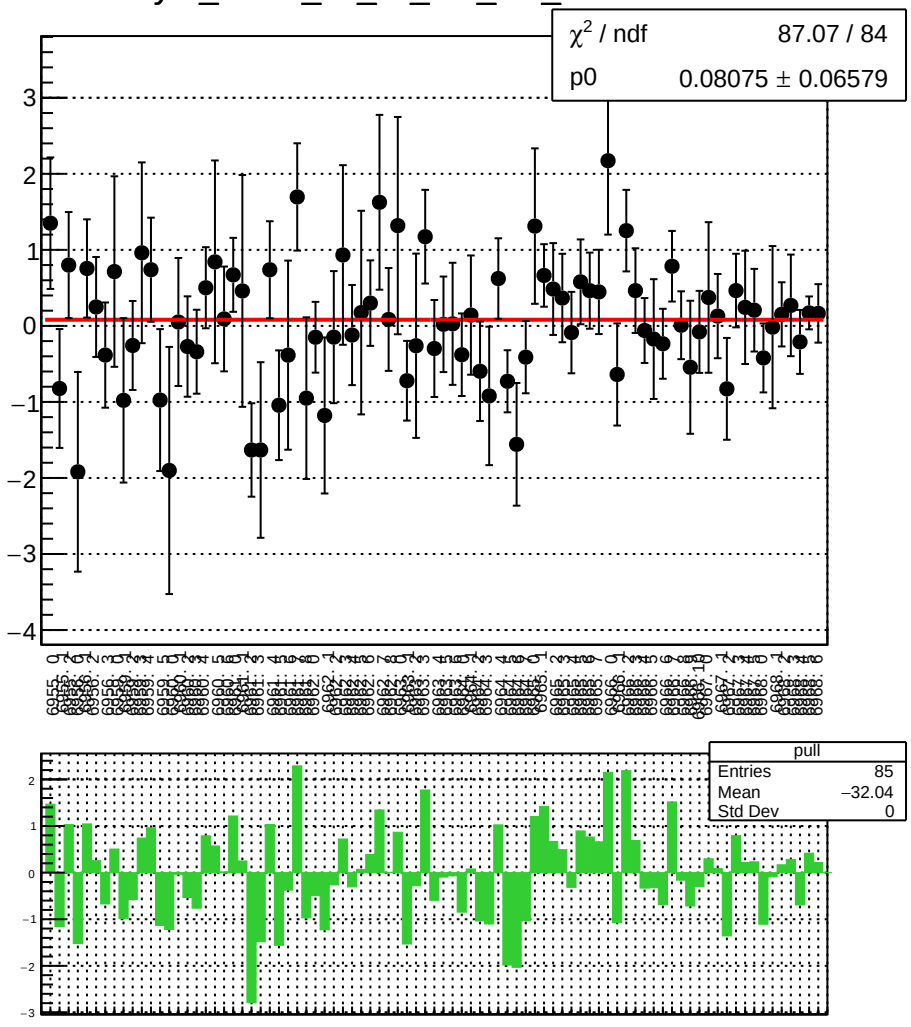

pull1D
Entries 85
Mean −0.01226
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

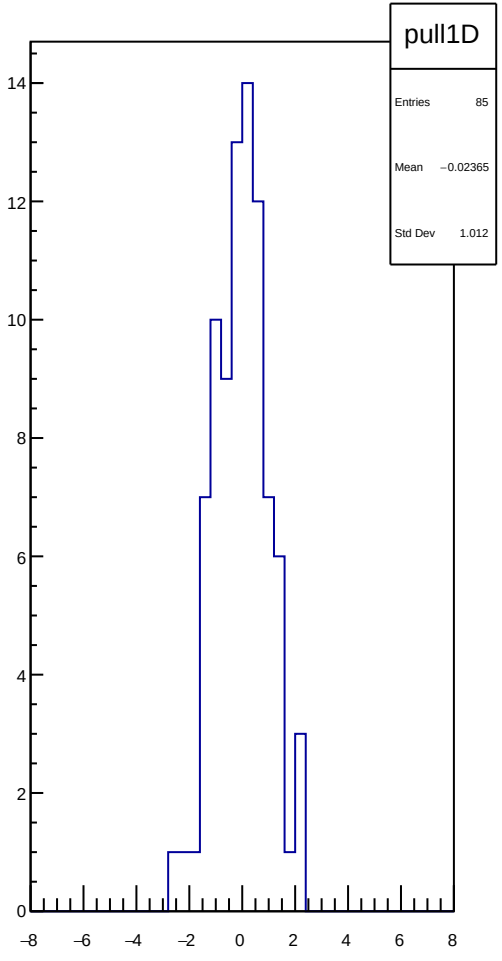

asym_sam3_rms vs run
χ² / ndf 1.459e+04 / 84
p0 1240 ± 0.9719
1800
1700
1600
1500
1400
1300
1200
1100
1000

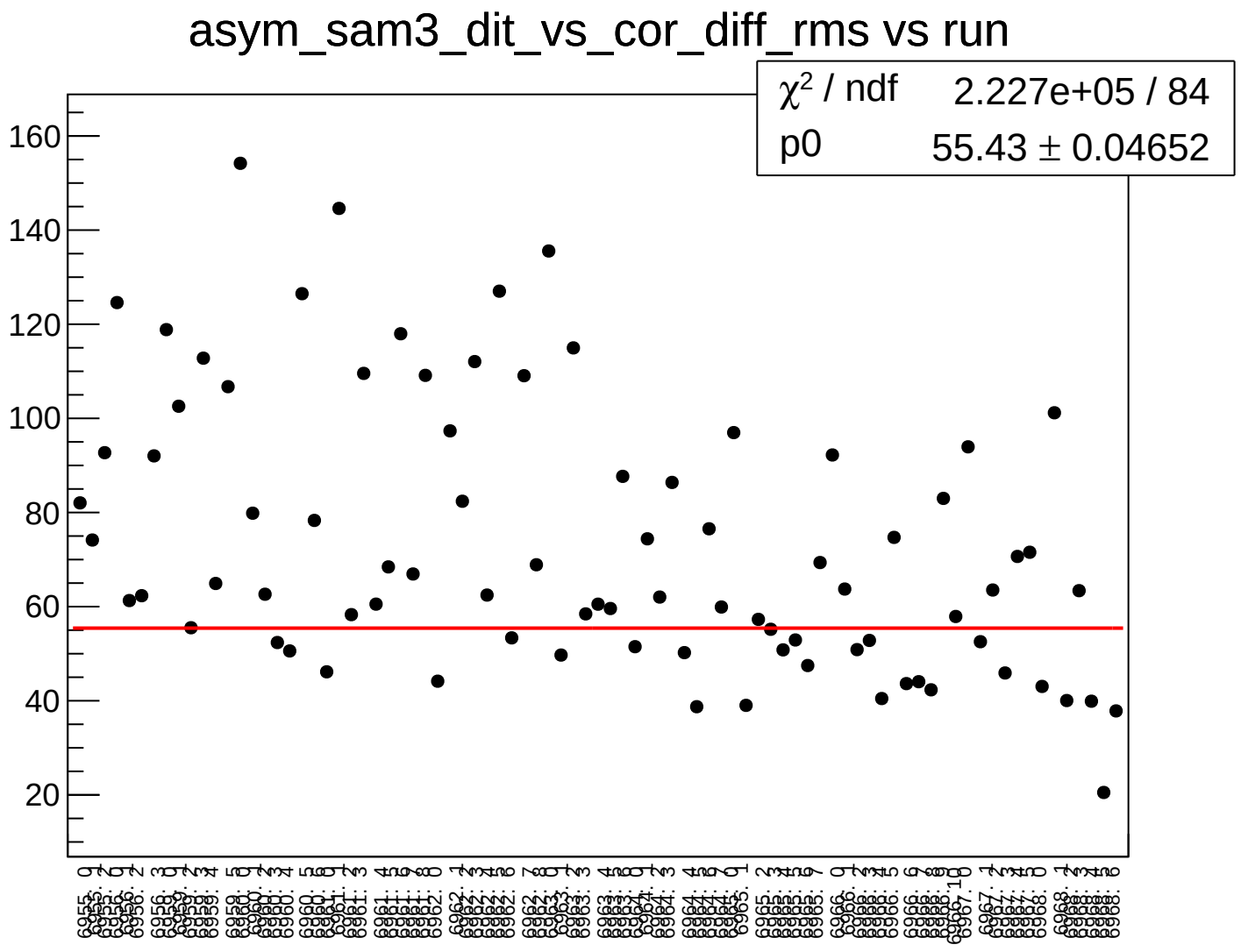

asym_sam3_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 73.01 / 84
p0 5.257e−14 ± 8.952e−14
pull
Entries 85
Mean 42.62
Std Dev 14.57

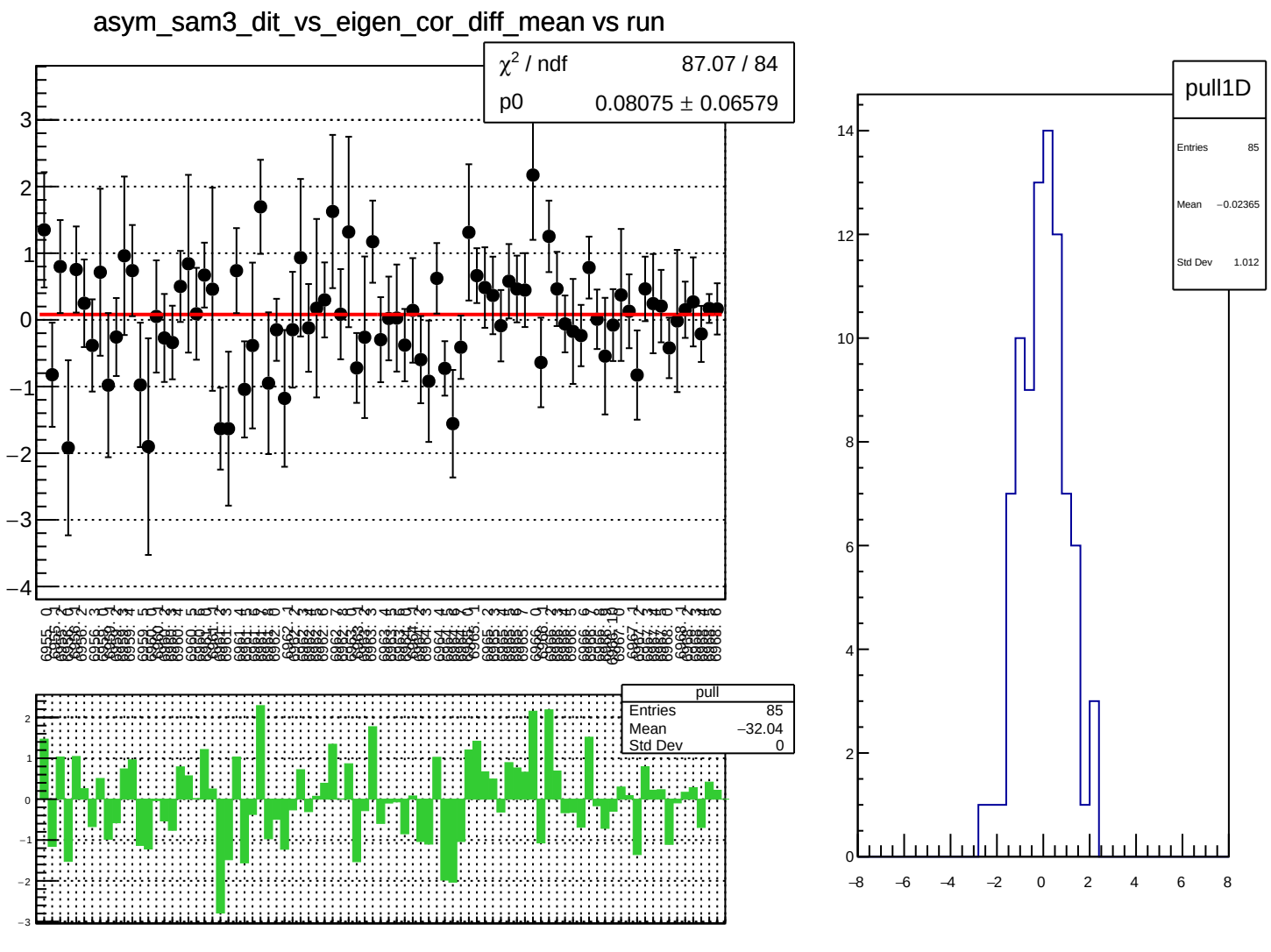

pull1D
Entries 85
Mean 0.07782
Std Dev 0.9235

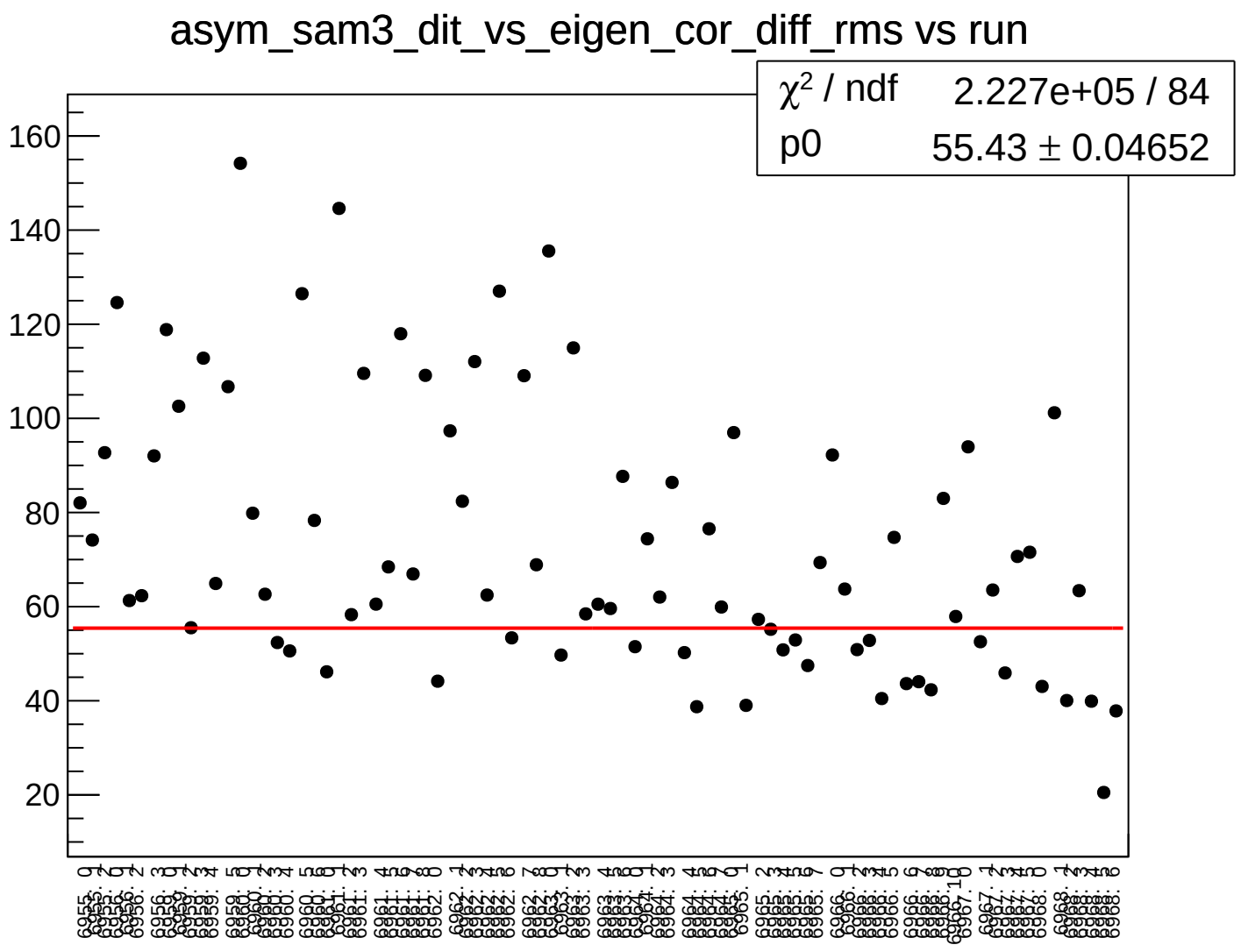

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 84
p0 4.811e−11 ± 6.33e−14
0.05
0.04
0.03
0.02
0.01
0

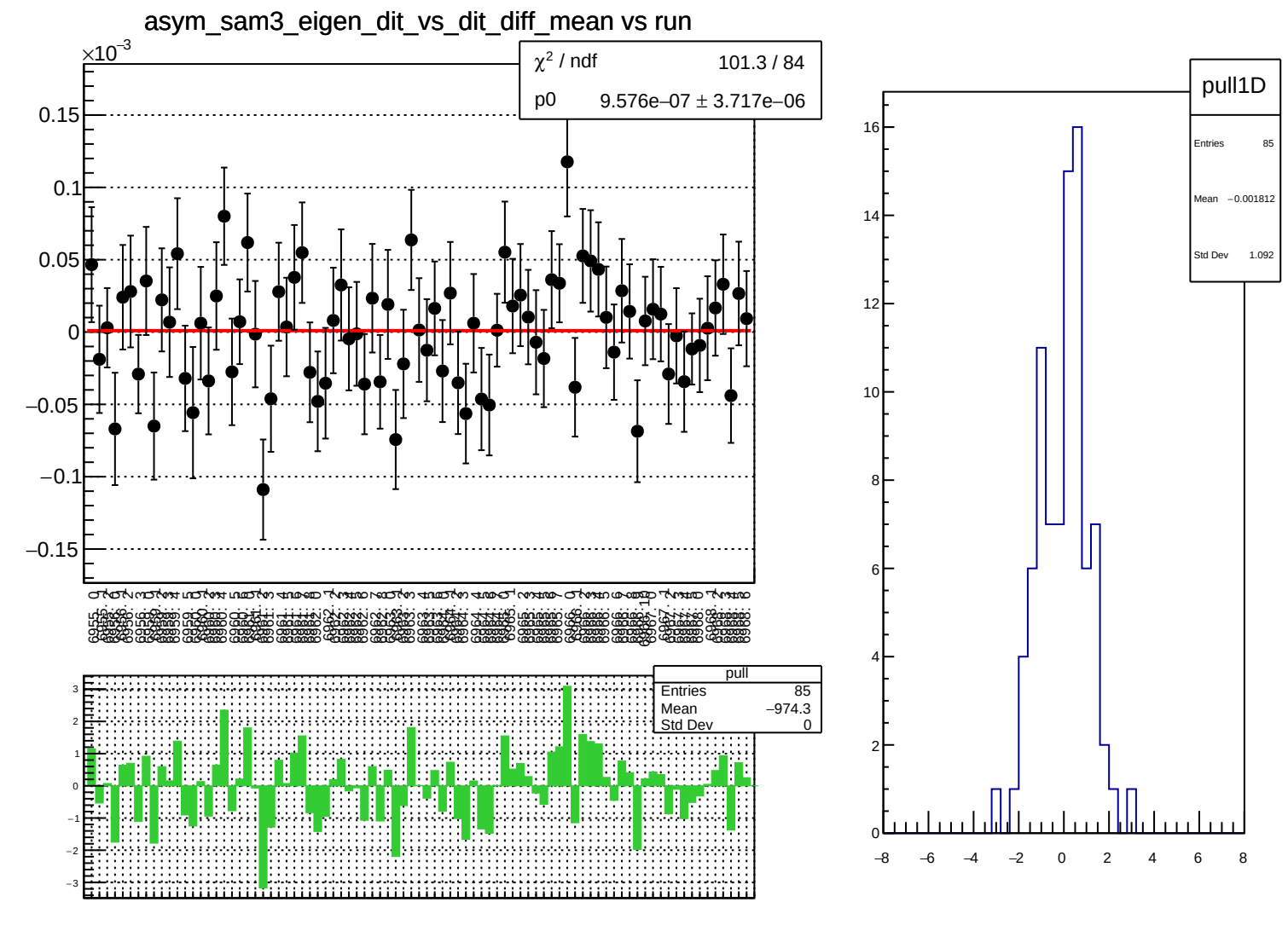

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 87.07 / 84
p0 0.08075 ± 0.06579
pull
Entries 85
Mean −32.04
Std Dev 0

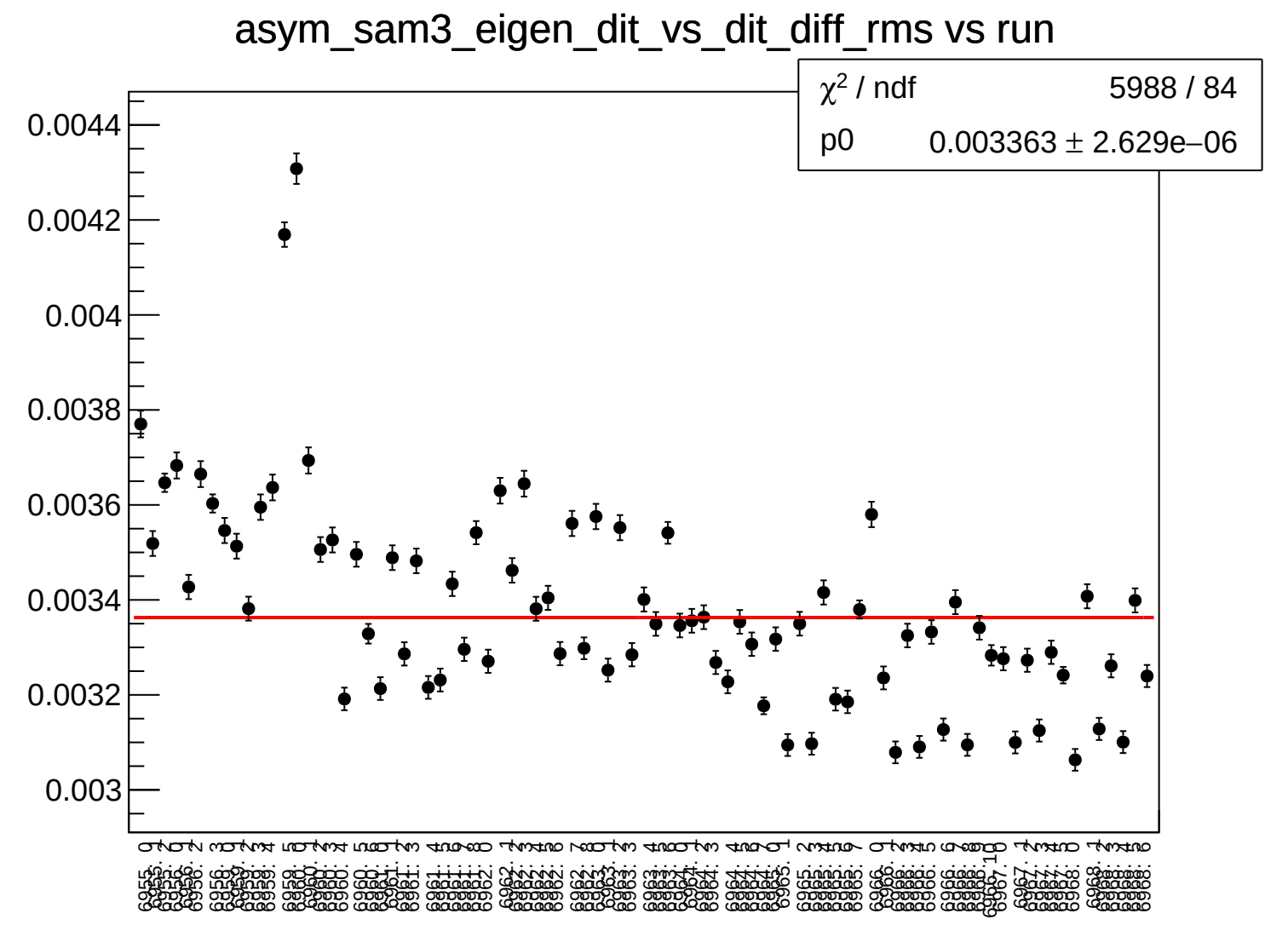

pull1D
Entries 85
Mean −0.02365
Std Dev 1.012

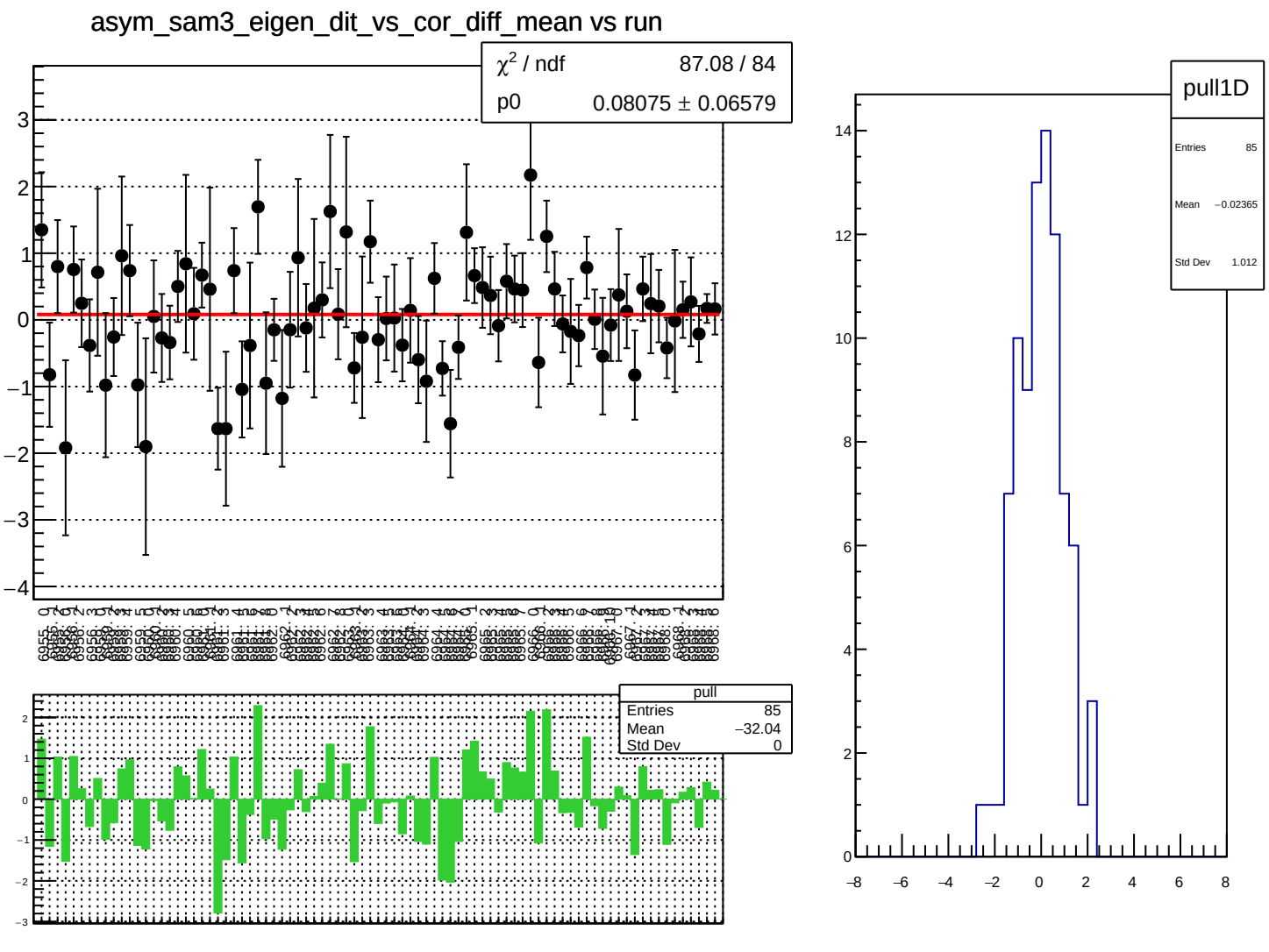

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.227e+05 / 84
p0 55.43 ± 0.04652
160
140
120
100
80
60
40
20

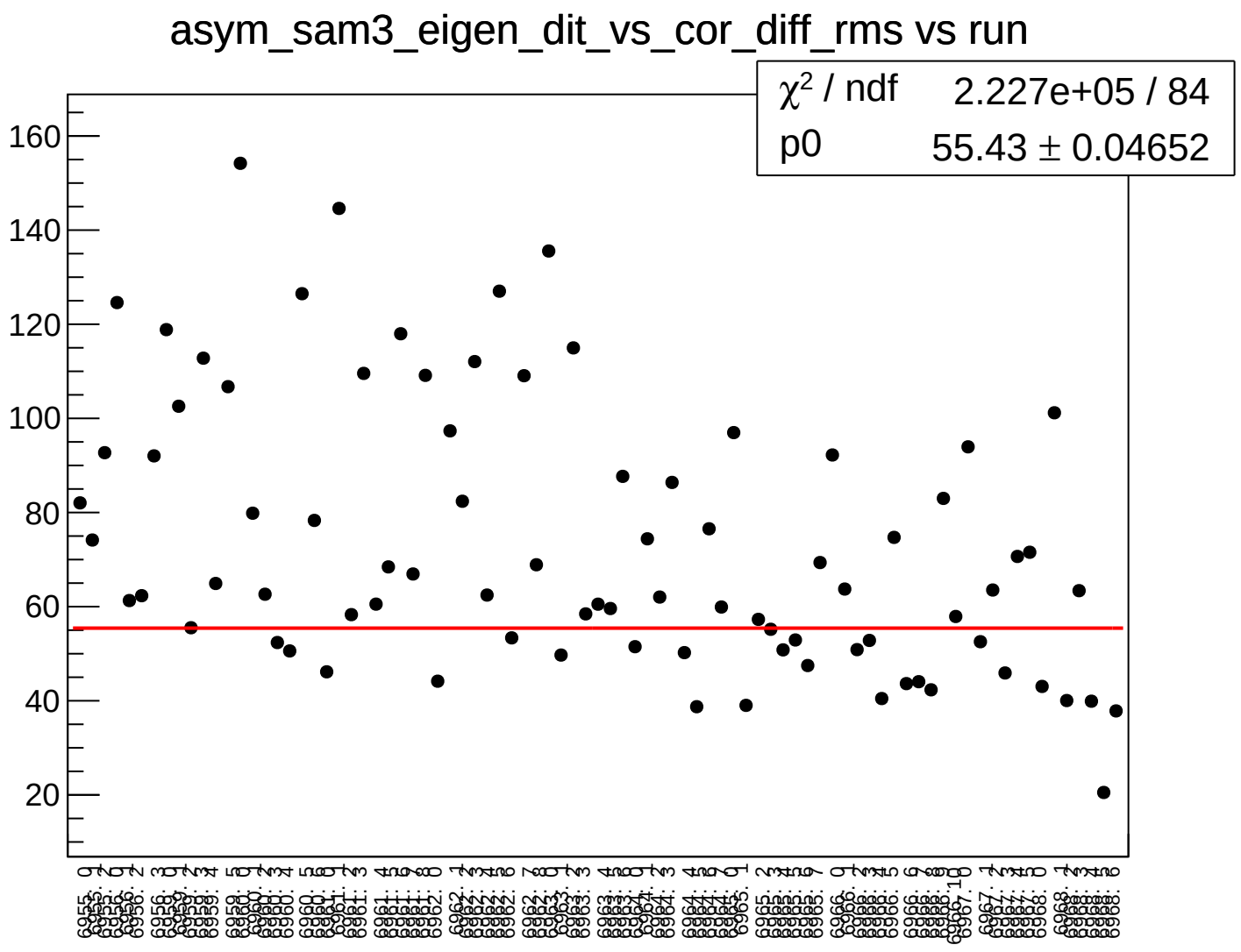

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.07 / 84
p0 0.08075 ± 0.06579
pull
Entries 85
Mean −32.04
Std Dev 0
pull1D
Entries 85
Mean −0.02365
Std Dev 1.012

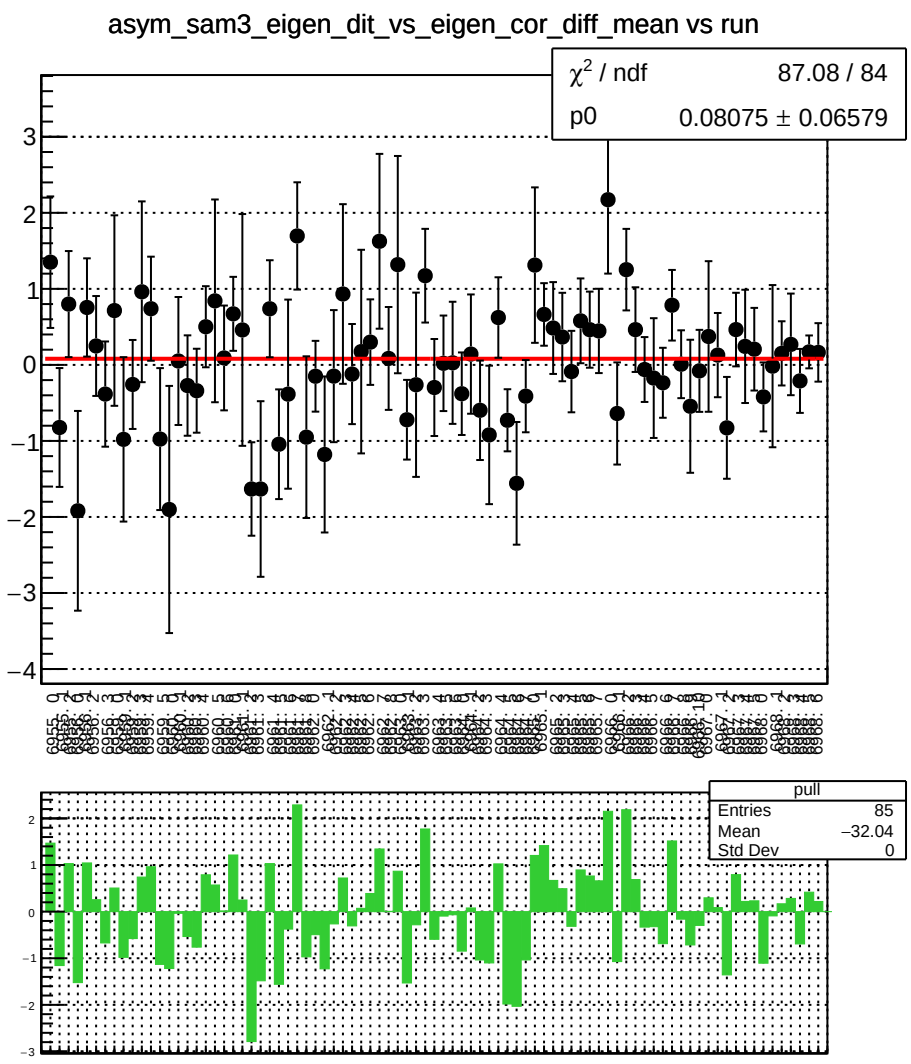

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.227e+05 / 84
p0 55.43 ± 0.04652
160
140
120
100
80
60
40
20

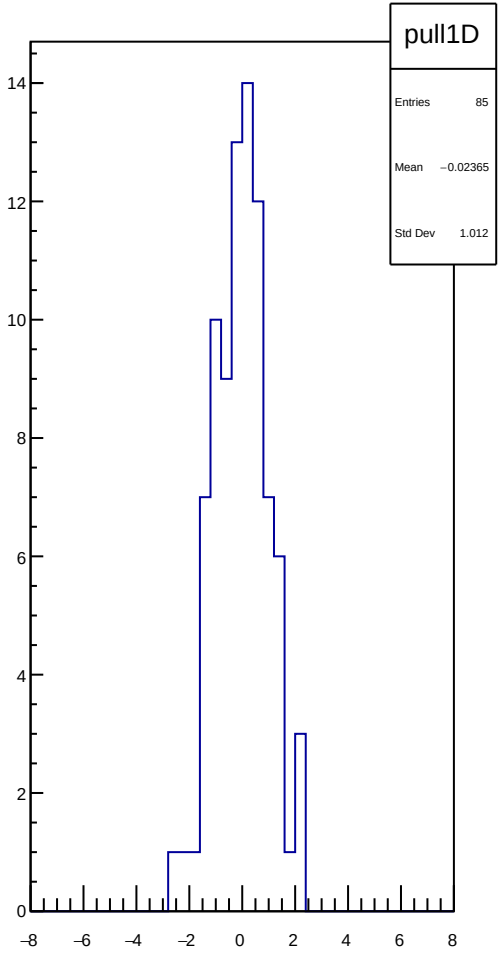

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.3 / 84
p0 9.576e−07 ± 3.717e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean −974.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.001812
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

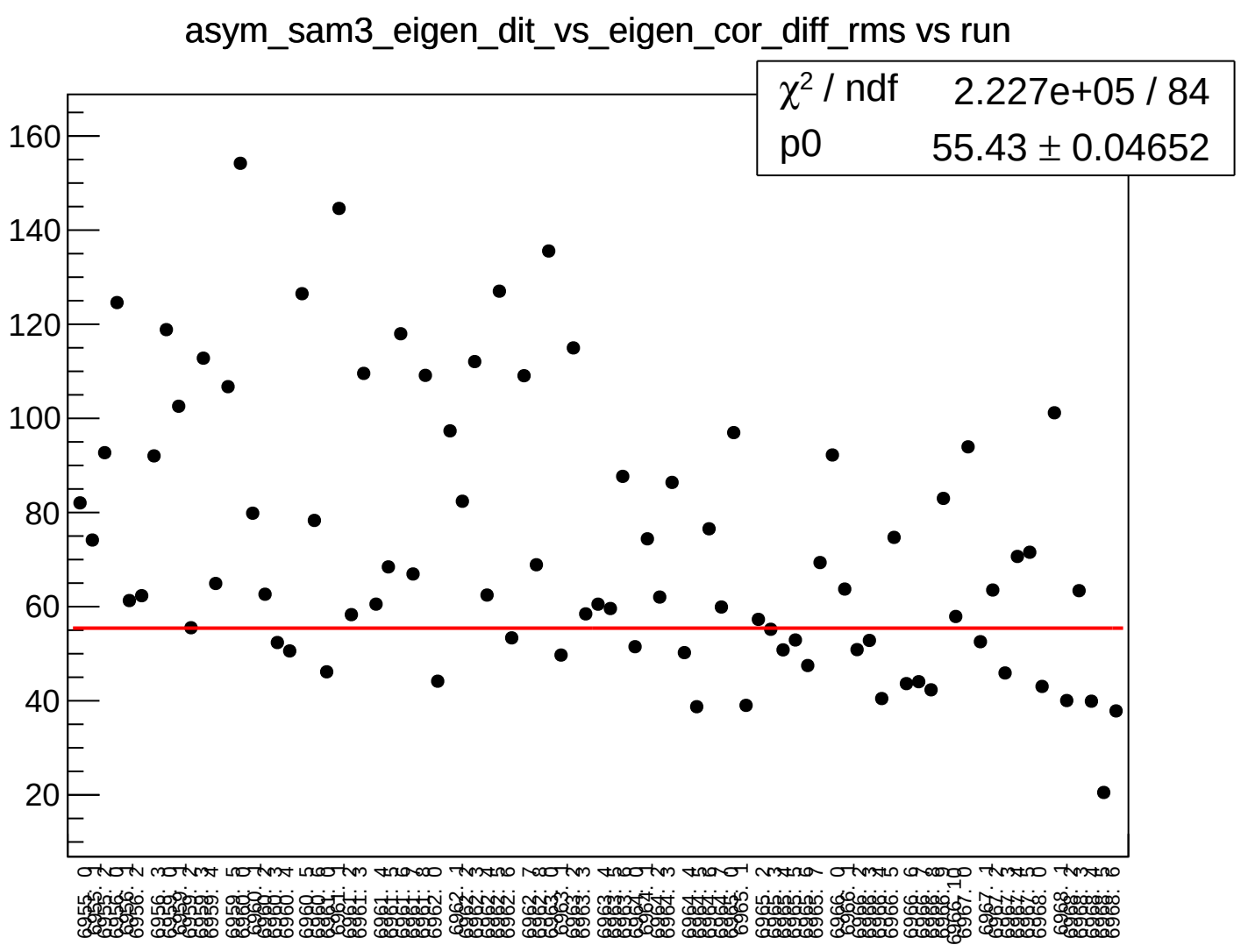

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5988 / 84
p0 0.003363 ± 2.629e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

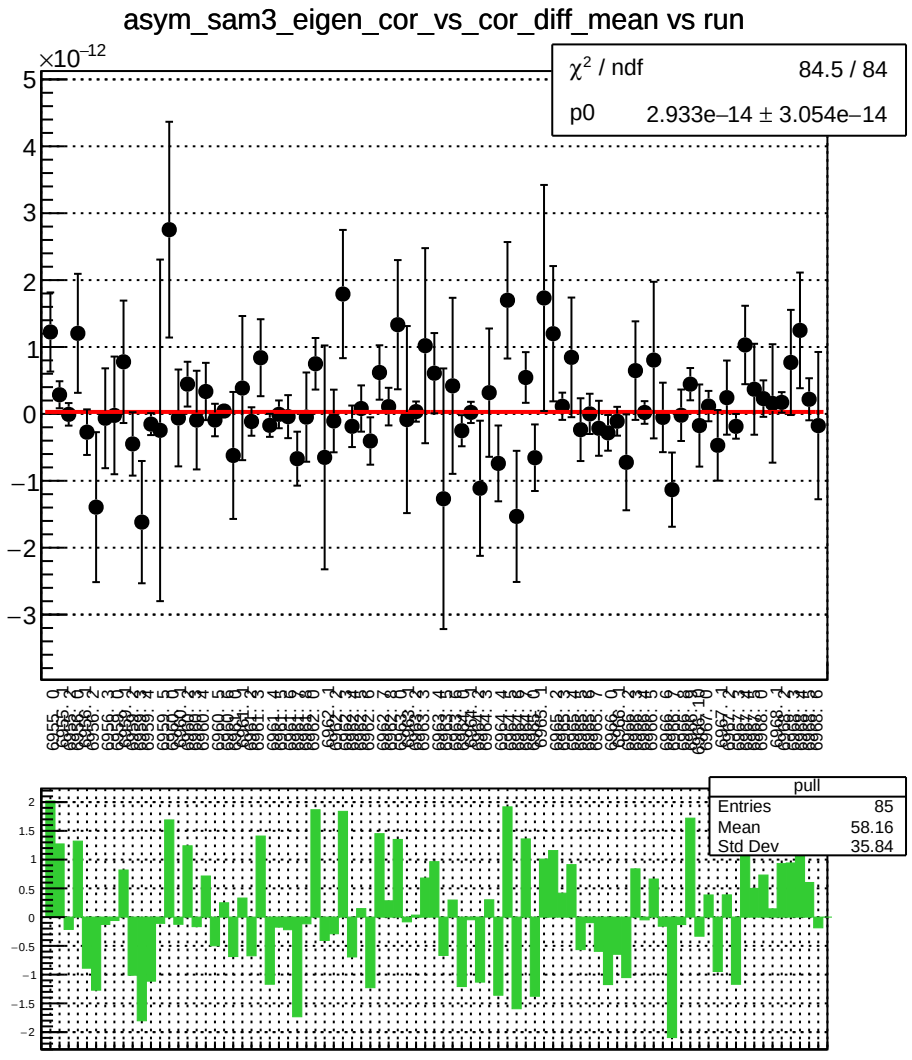

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.08 / 84
p0 0.08075 ± 0.06579
pull
Entries 85
Mean −32.04
Std Dev 0
pull1D
Entries 85
Mean −0.02365
Std Dev 1.012

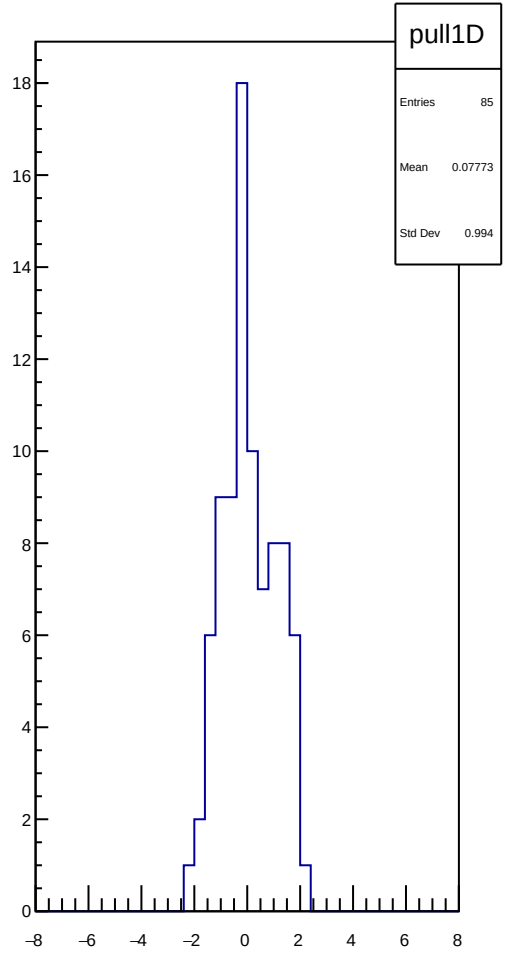

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.227e+05 / 84
p0 55.43 ± 0.04652
160
140
120
100
80
60
40
20

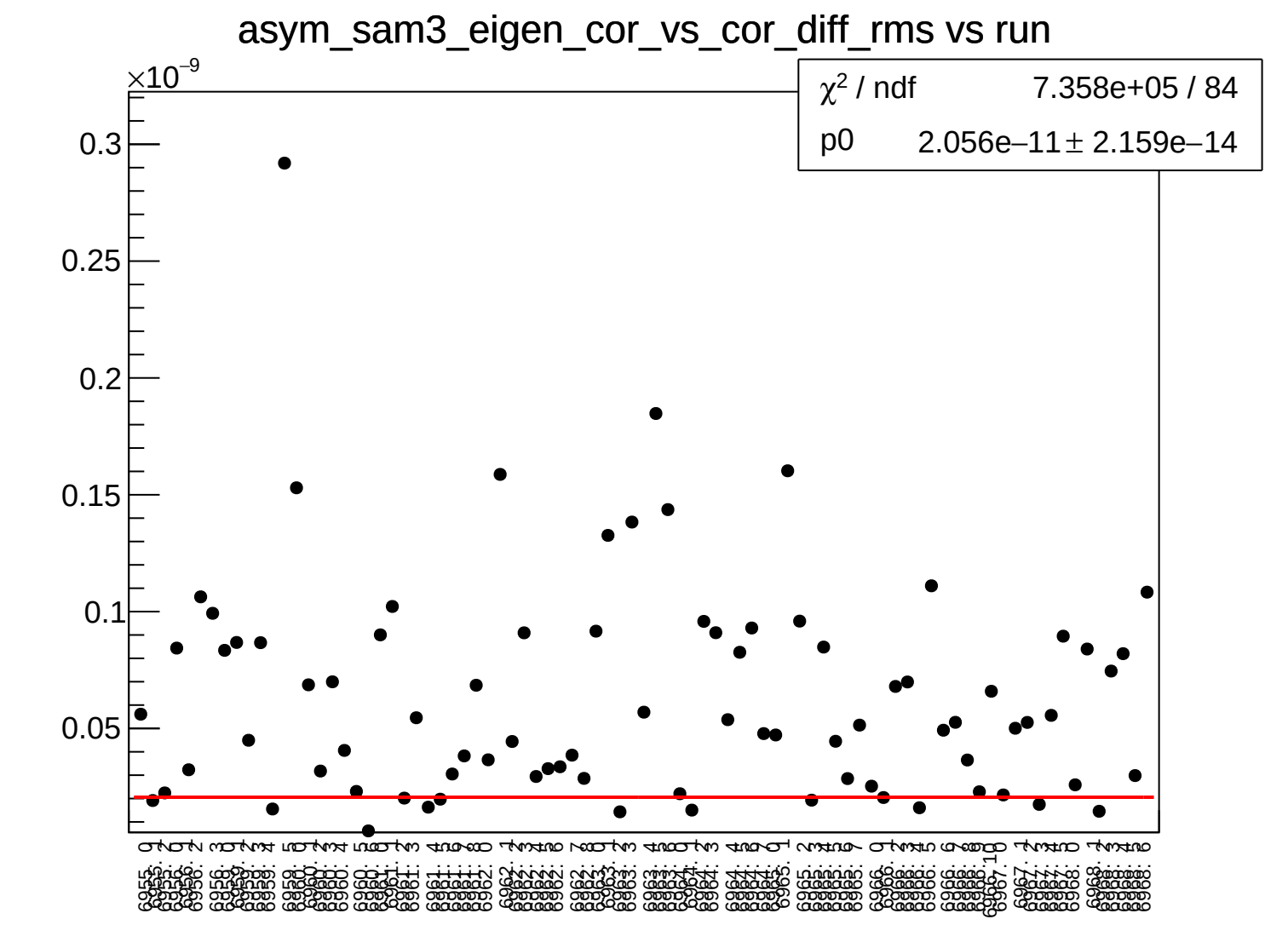

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.08 / 84
p0 0.08075 ± 0.06579
pull
Entries 85
Mean −32.04
Std Dev 0

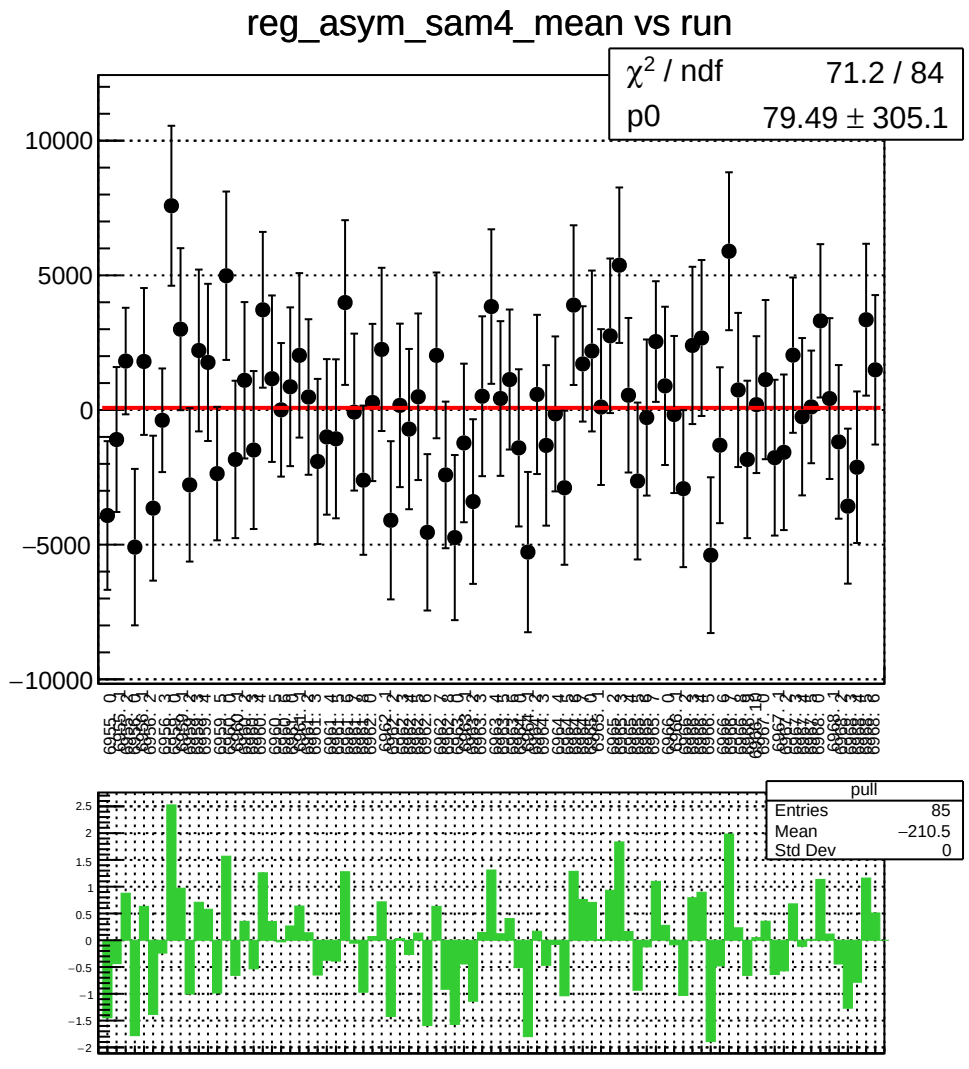

pull1D
Entries 85
Mean −0.02365
Std Dev 1.012

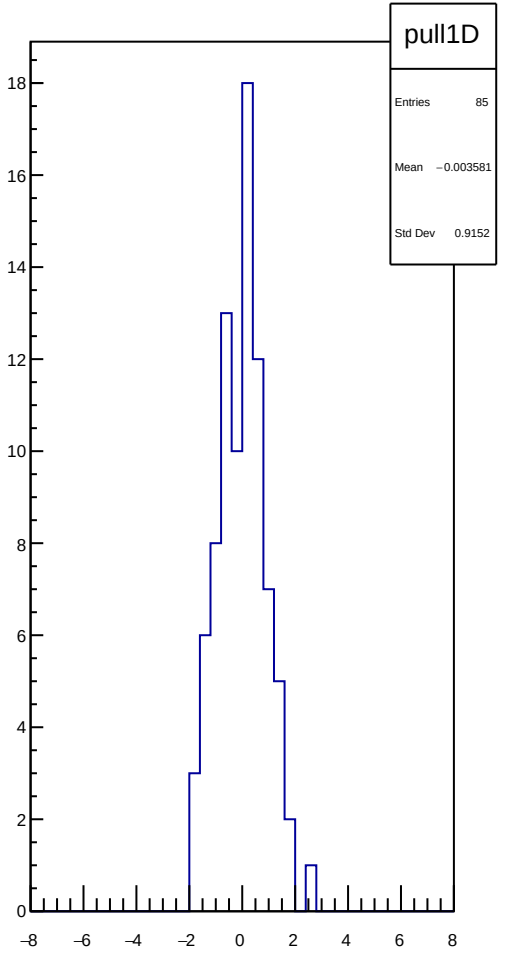

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.227e+05 / 84
p0 55.43 ± 0.04652
160
140
120
100
80
60
40
20

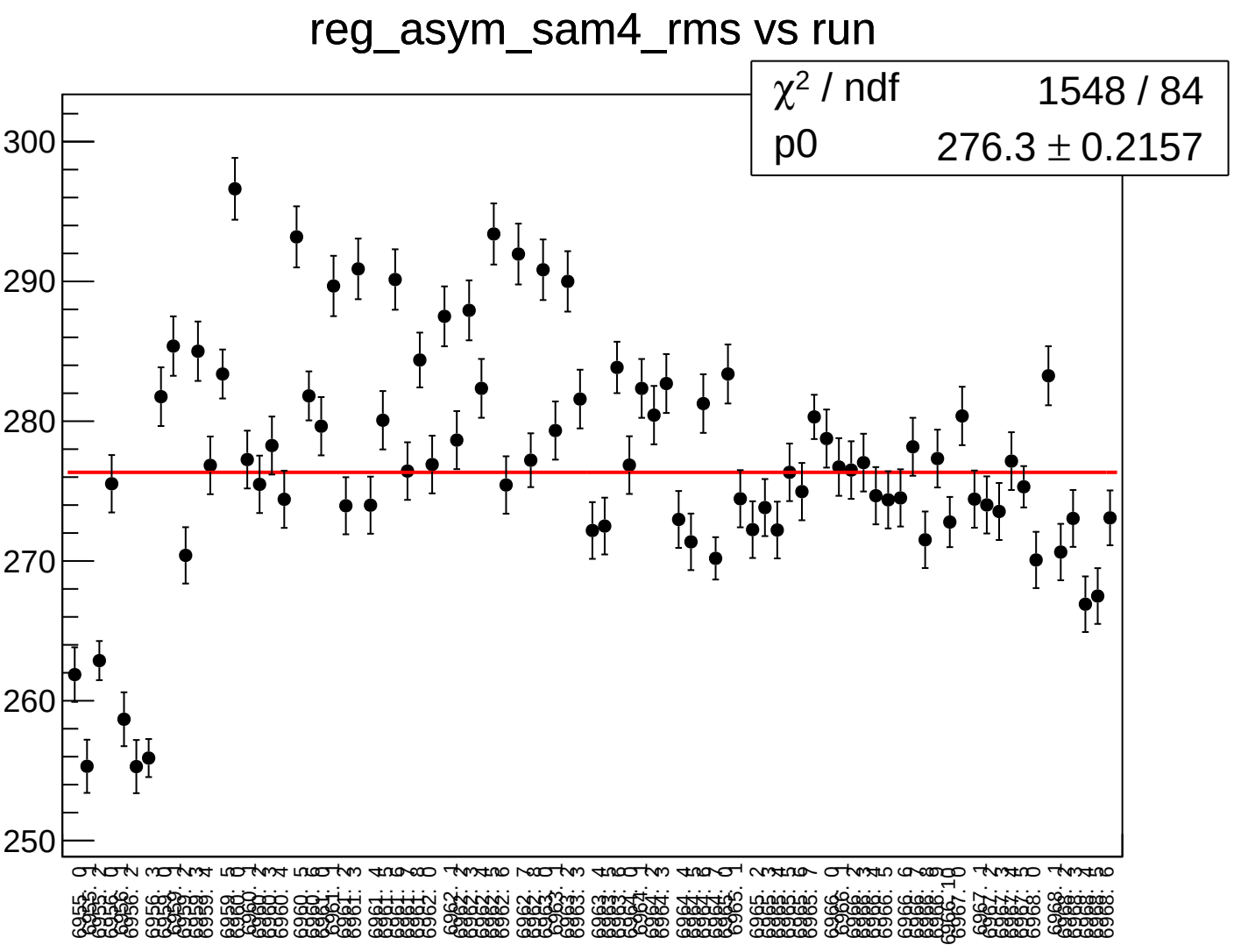

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.5 / 84
p0 2.933e−14 ± 3.054e−14
pull
Entries 85
Mean 58.16
Std Dev 35.84

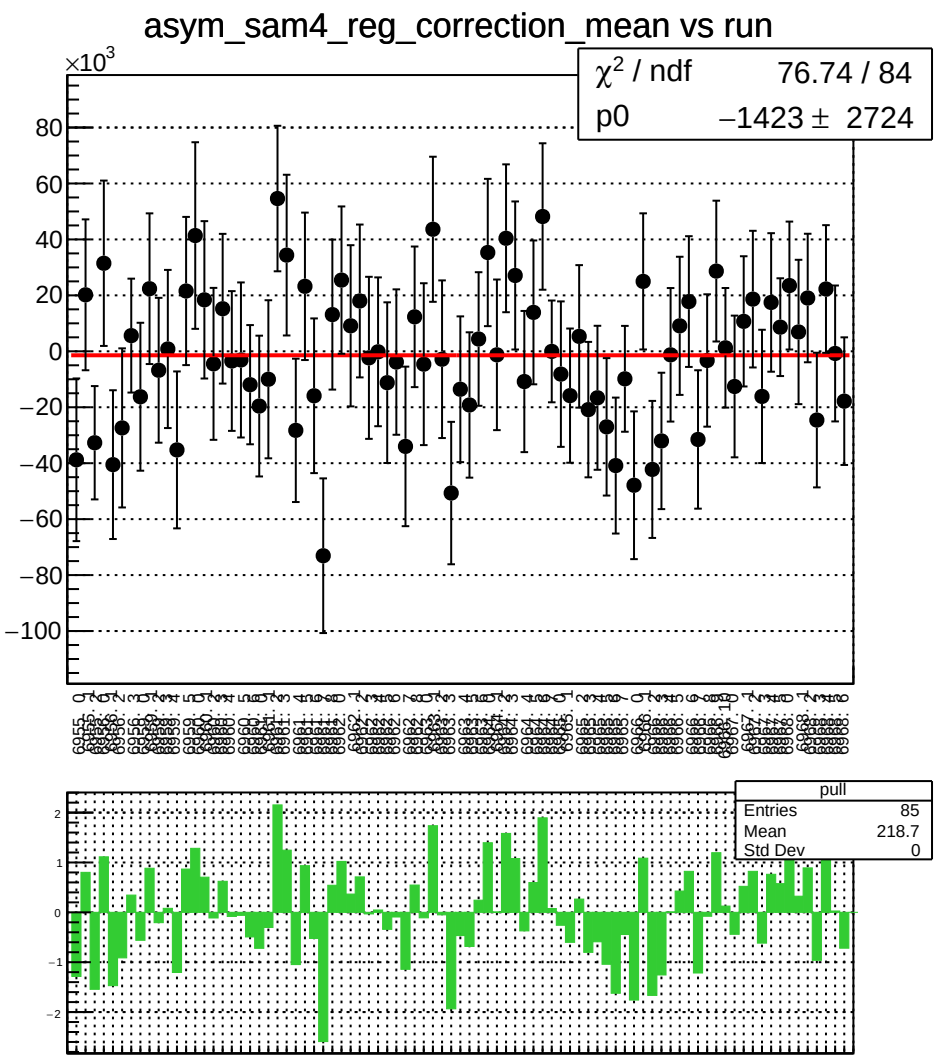

pull1D
Entries 85
Mean 0.07773
Std Dev 0.994

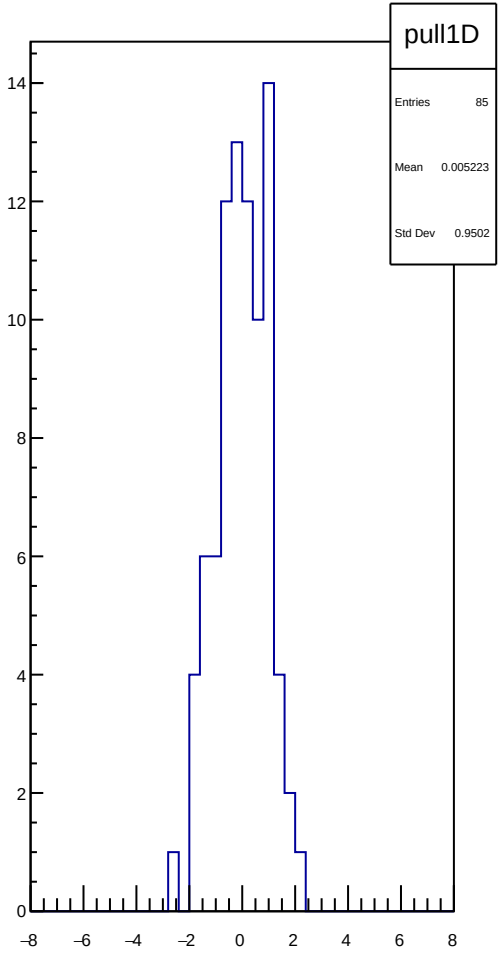

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.358e+05 / 84
p0 2.056e−11 ± 2.159e−14
0.3
0.25
0.2
0.15
0.1
0.05

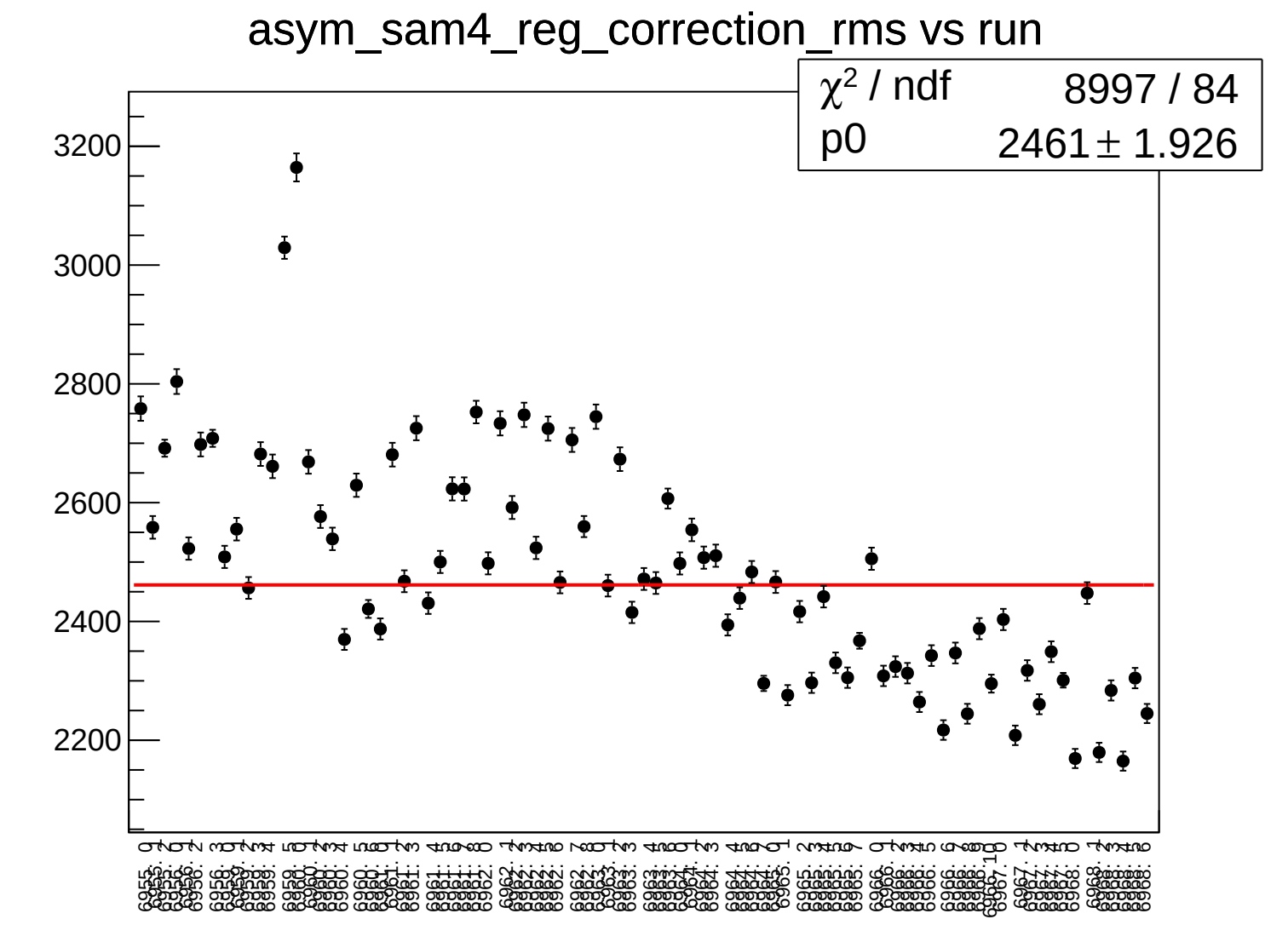

reg_asym_sam4_mean vs run
χ² / ndf 71.2 / 84
p0 79.49 ± 305.1
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −210.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

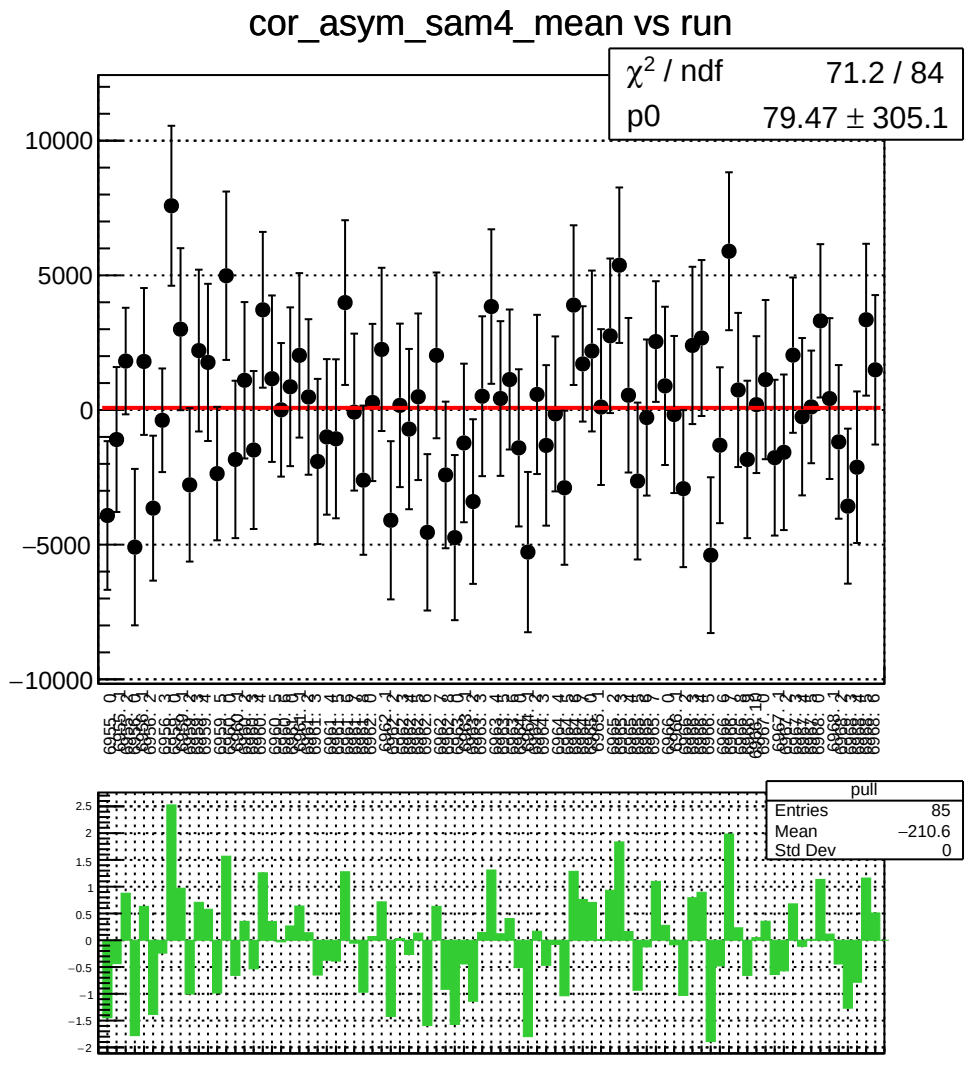

pull1D
Entries 85
Mean −0.003581
Std Dev 0.9152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

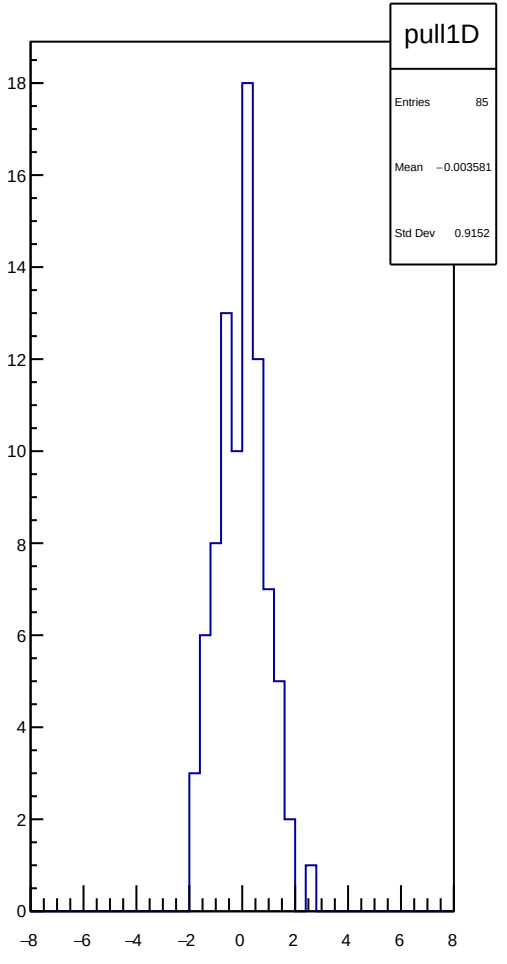

reg_asym_sam4_rms vs run
χ² / ndf 1548 / 84
p0 276.3 ± 0.2157
300
290
280
270
260
250

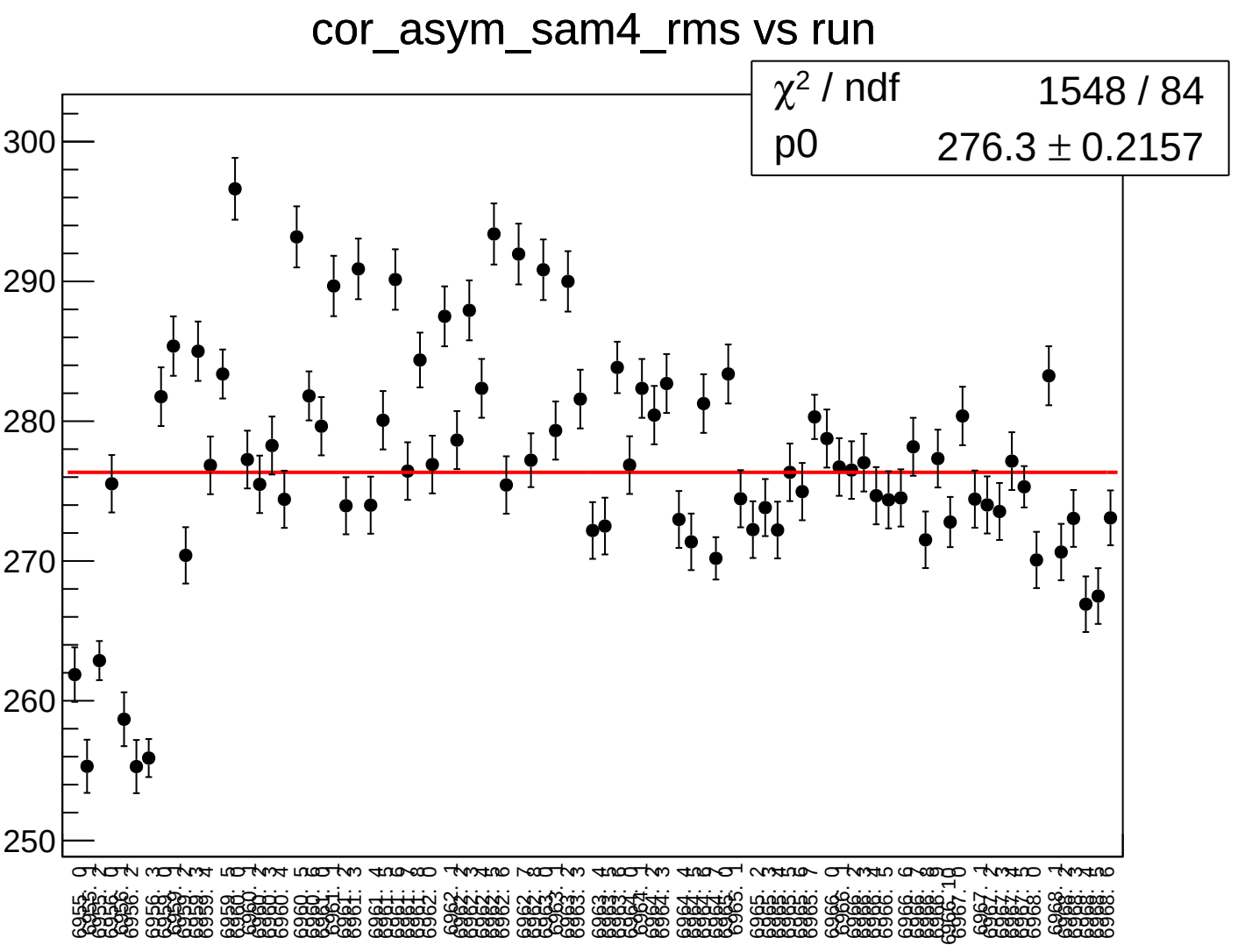

asym_sam4_reg_correction_mean vs run
χ² / ndf 76.74 / 84
p0 −1423 ± 2724
×10³
pull
Entries 85
Mean 218.7
Std Dev 0

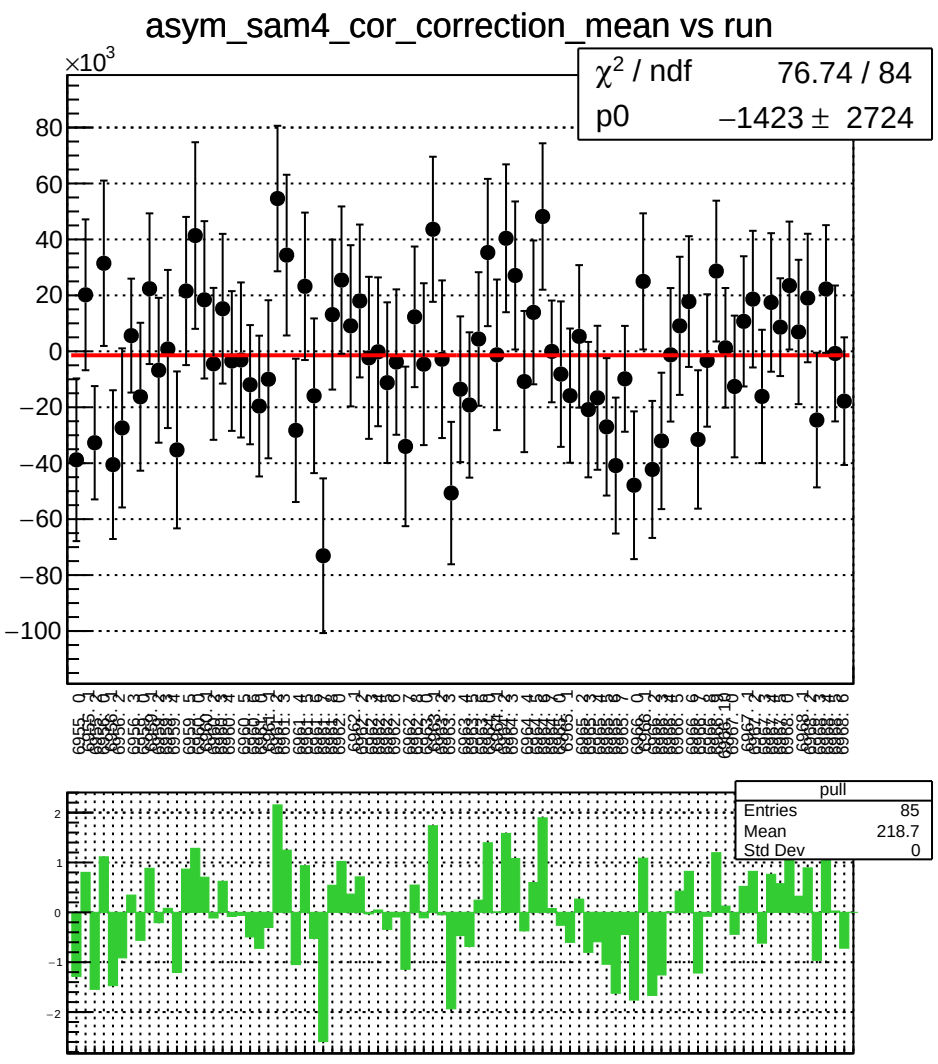

pull1D
Entries 85
Mean 0.005223
Std Dev 0.9502

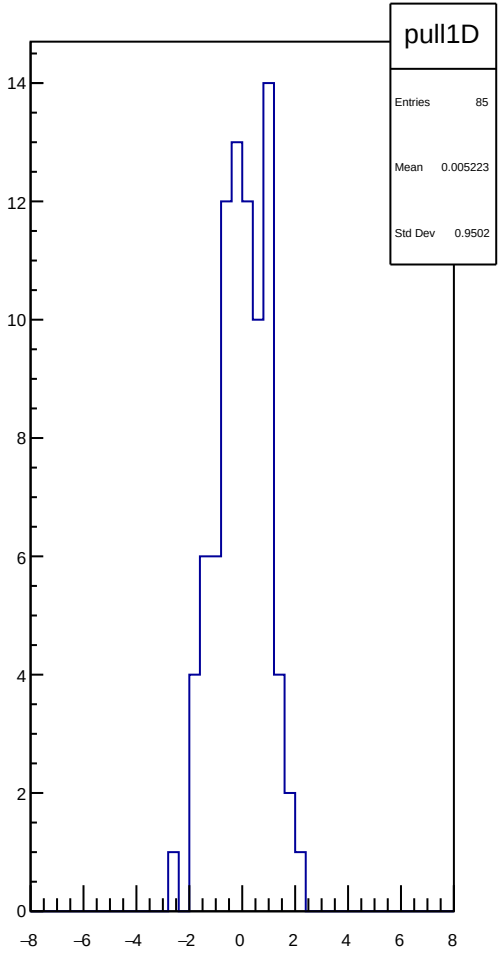

asym_sam4_reg_correction_rms vs run
χ² / ndf 8997 / 84
p0 2461 ± 1.926
3200
3000
2800
2600
2400
2200

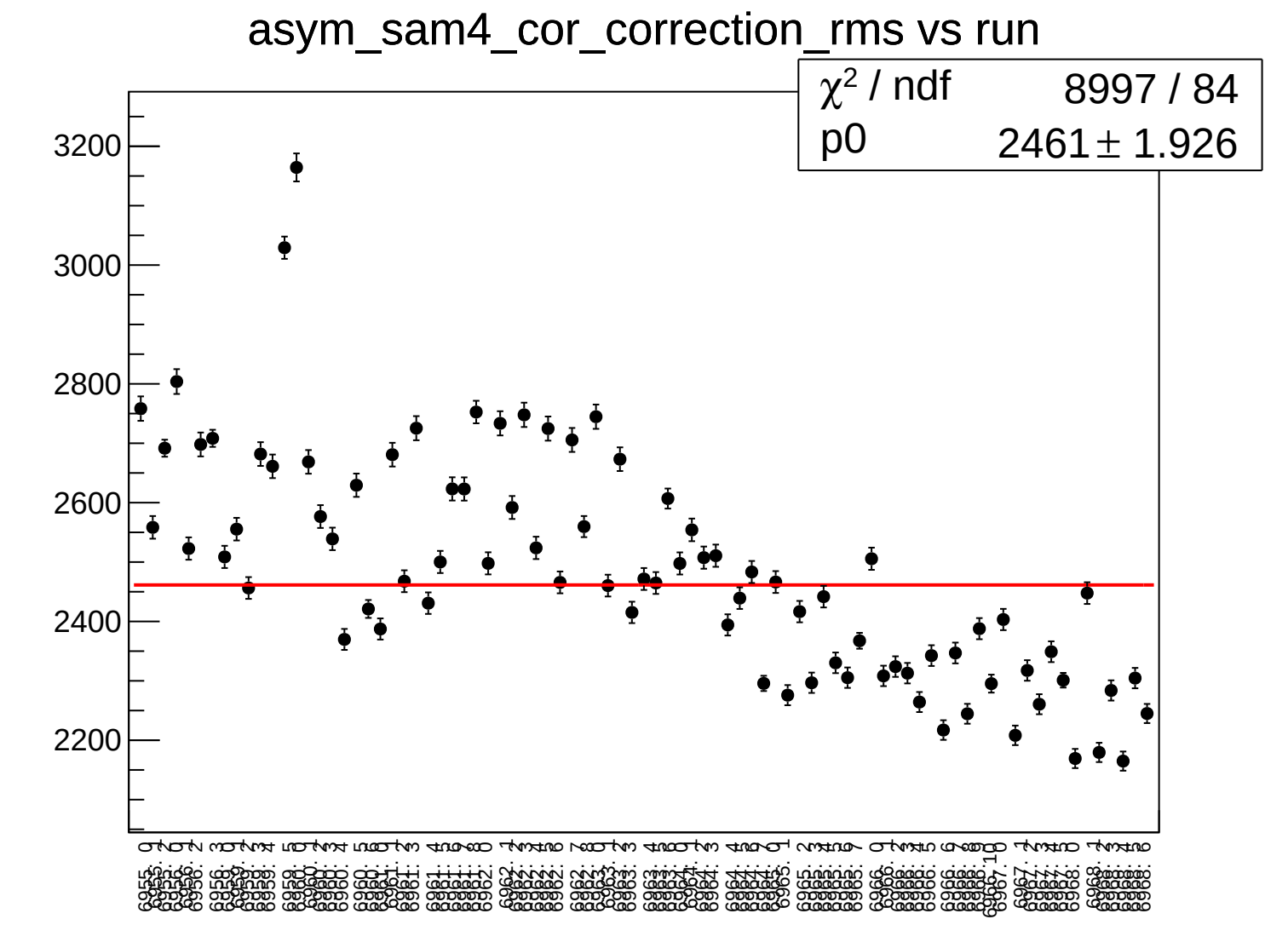

cor_asym_sam4_mean vs run
χ² / ndf 71.2 / 84
p0 79.47 ± 305.1
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −210.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

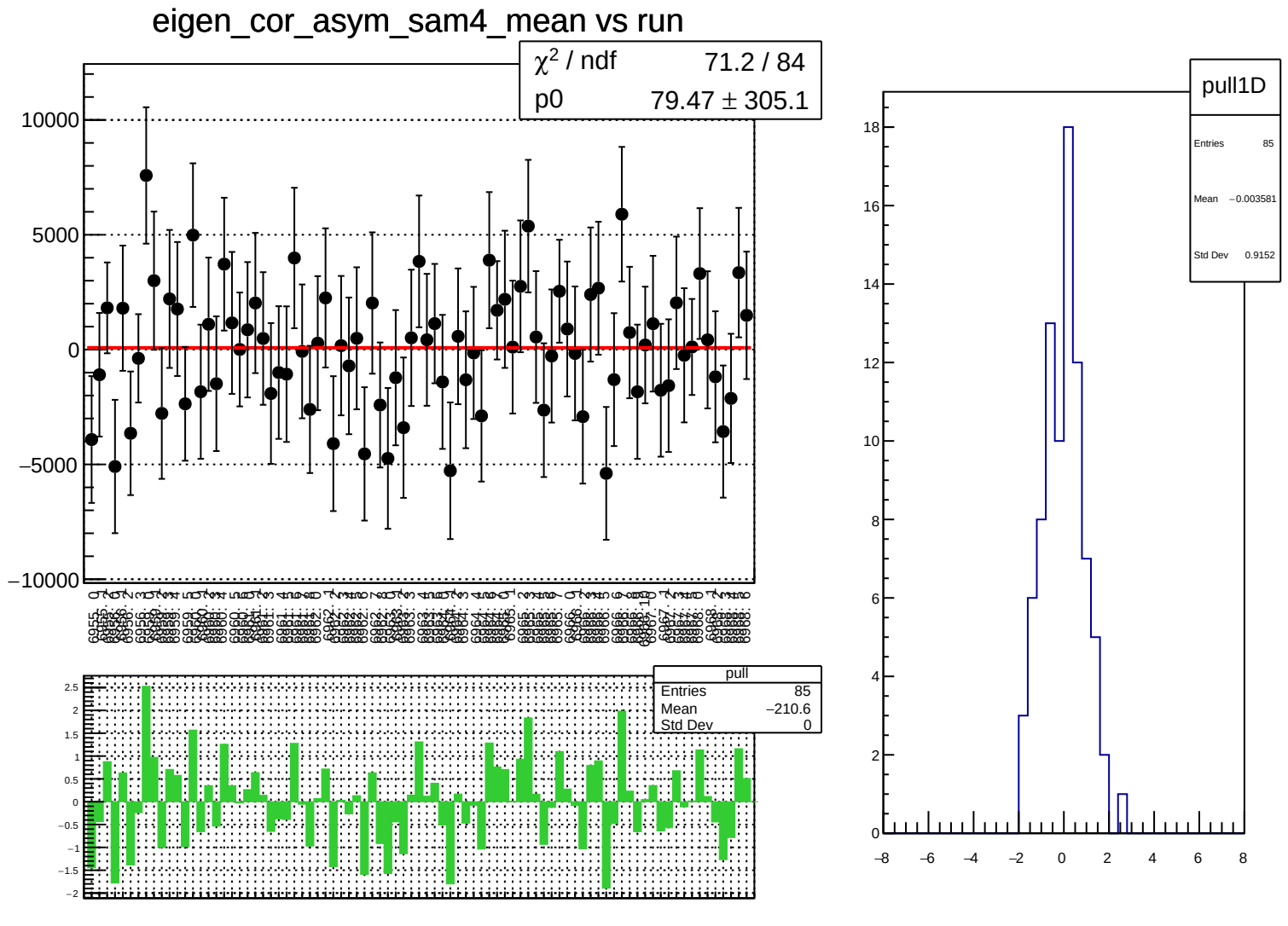

pull1D
Entries 85
Mean −0.003581
Std Dev 0.9152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

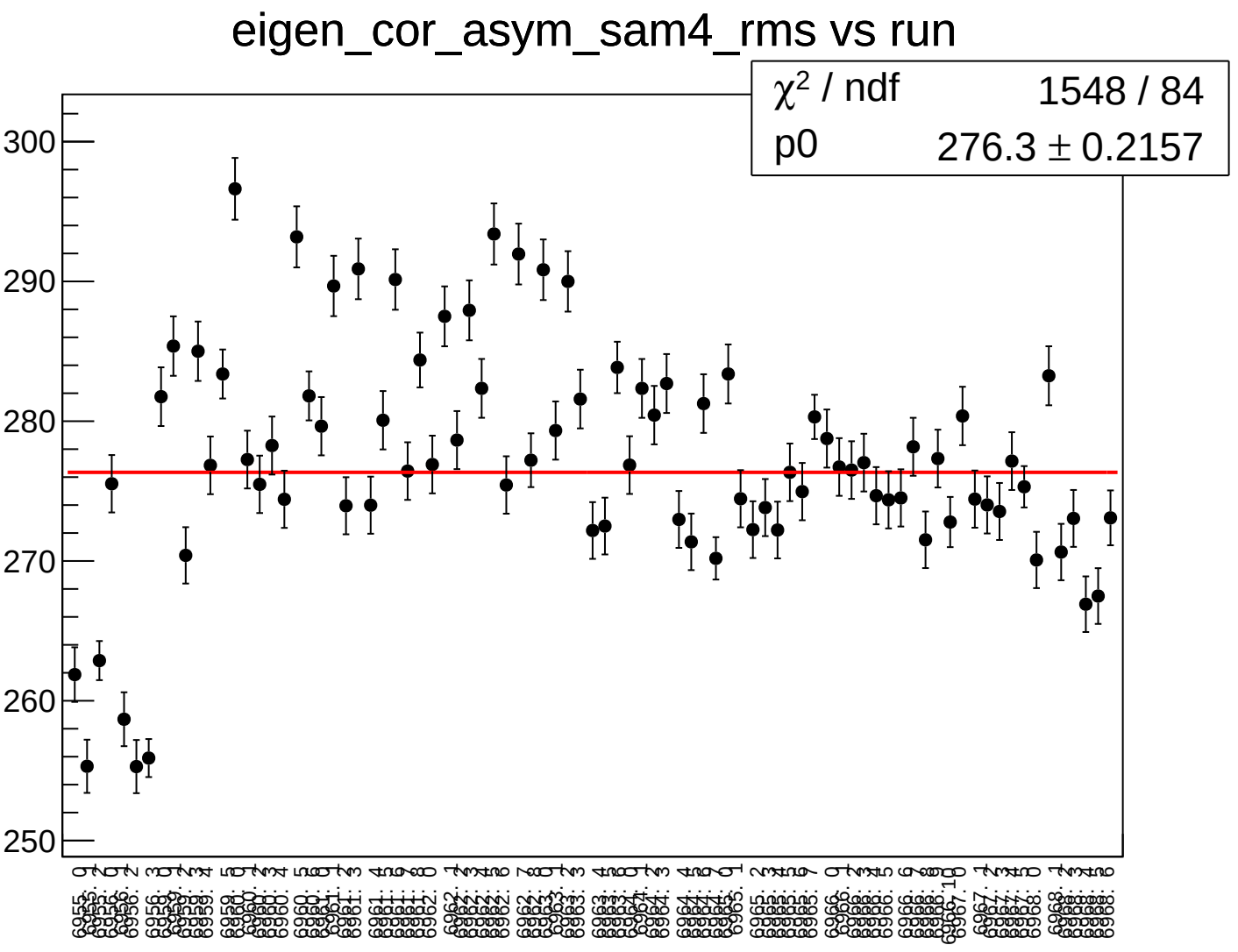

cor_asym_sam4_rms vs run
χ² / ndf 1548 / 84
p0 276.3 ± 0.2157
300
290
280
270
260
250

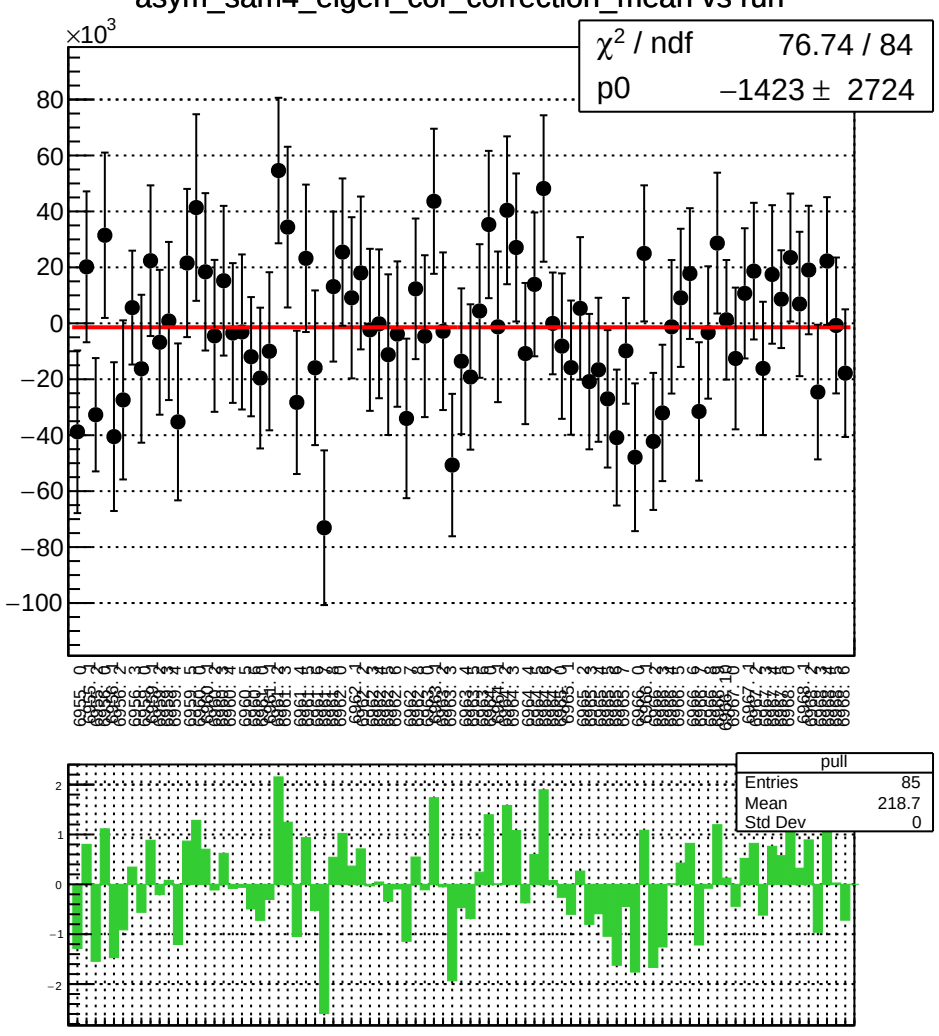

asym_sam4_cor_correction_mean vs run
χ² / ndf 76.74 / 84
p0 −1423 ± 2724
×10³
pull
Entries 85
Mean 218.7
Std Dev 0

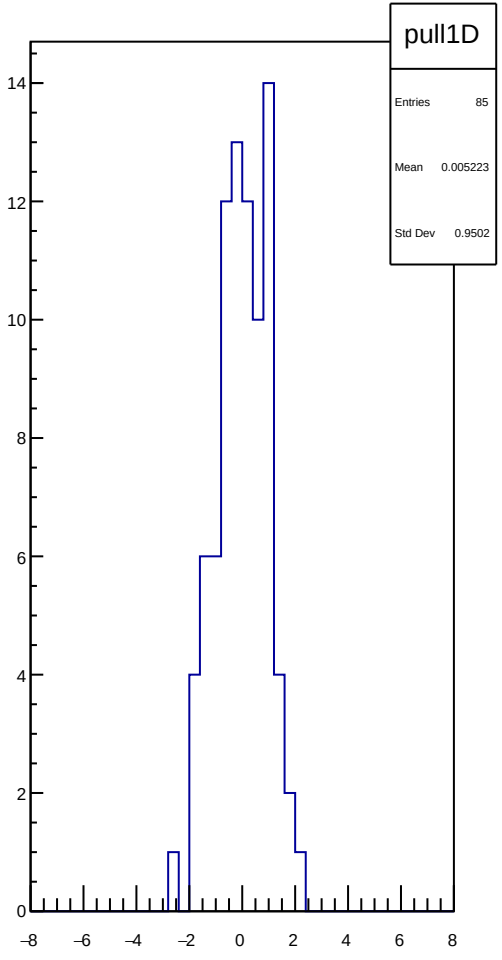

pull1D
Entries 85
Mean 0.005223
Std Dev 0.9502

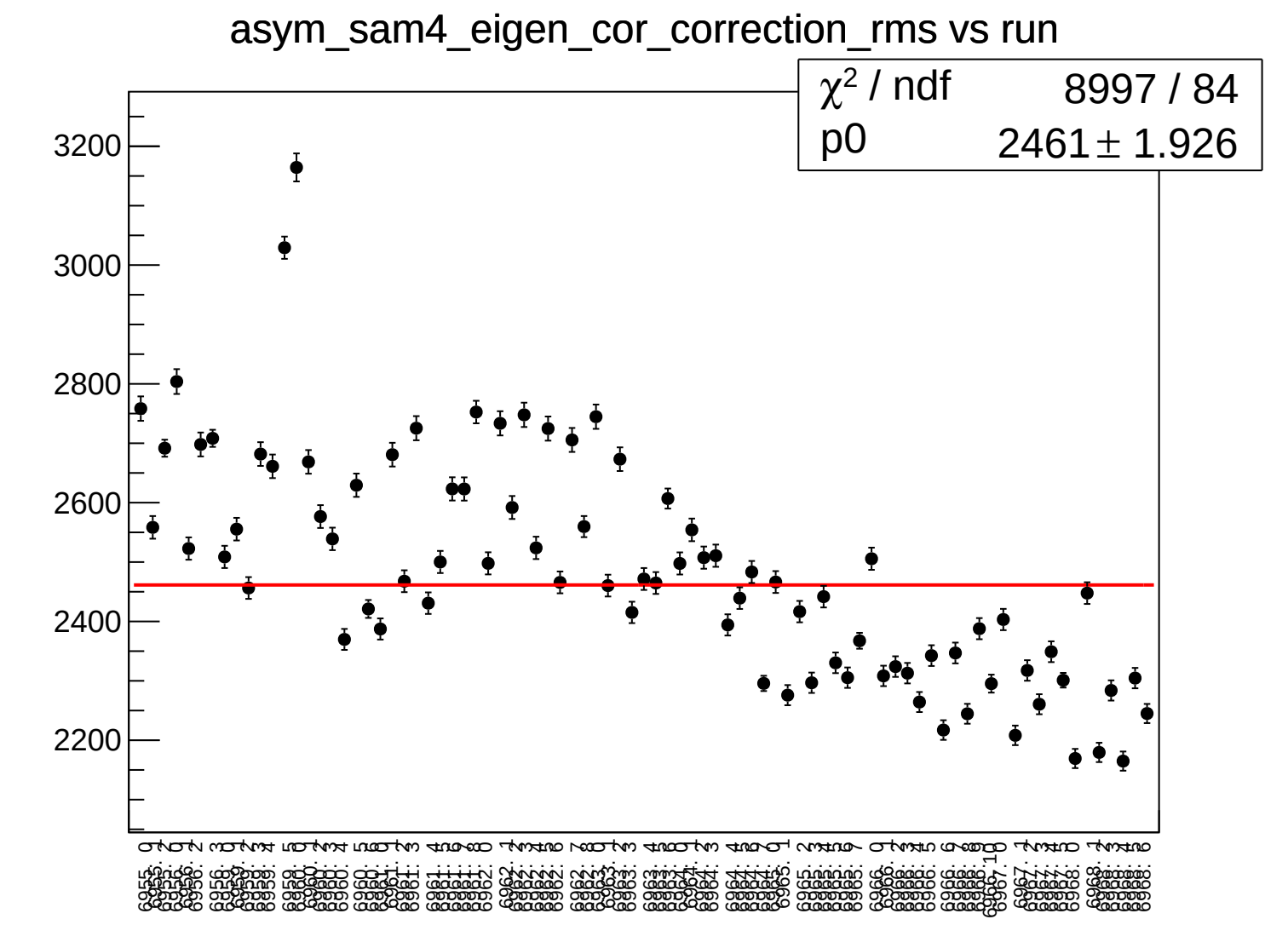

asym_sam4_cor_correction_rms vs run
χ² / ndf 8997 / 84
p0 2461 ± 1.926
3200
3000
2800
2600
2400
2200

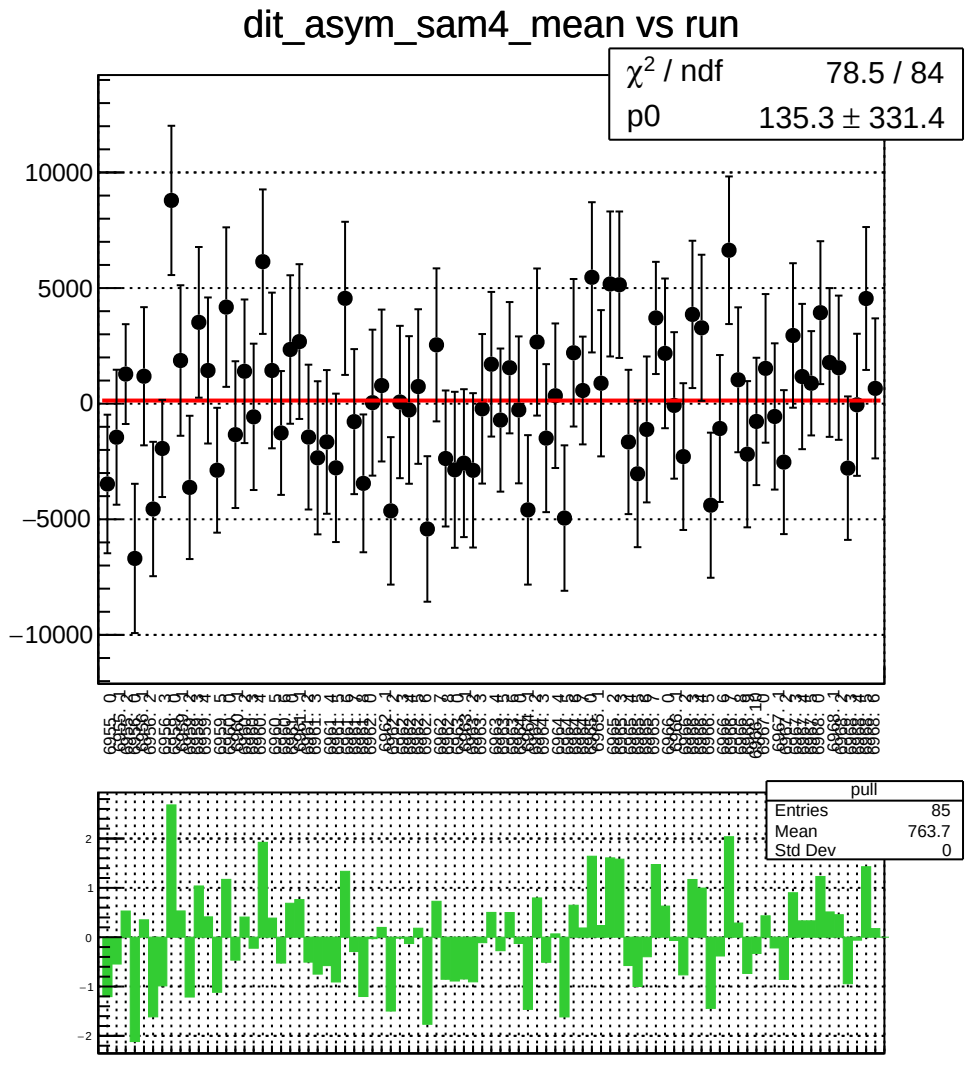

eigen_cor_asym_sam4_mean vs run
χ² / ndf 71.2 / 84
p0 79.47 ± 305.1
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −210.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.003581
Std Dev 0.9152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

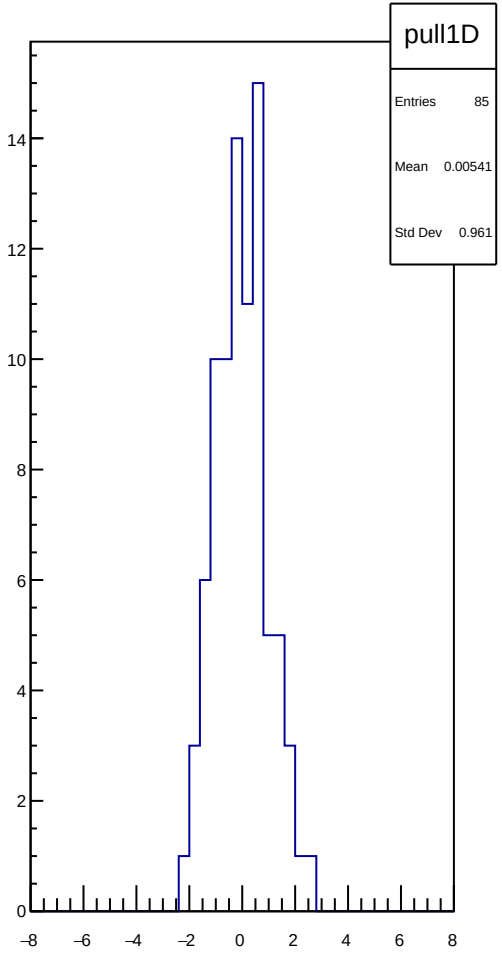

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1548 / 84
p0 276.3 ± 0.2157
300
290
280
270
260
250

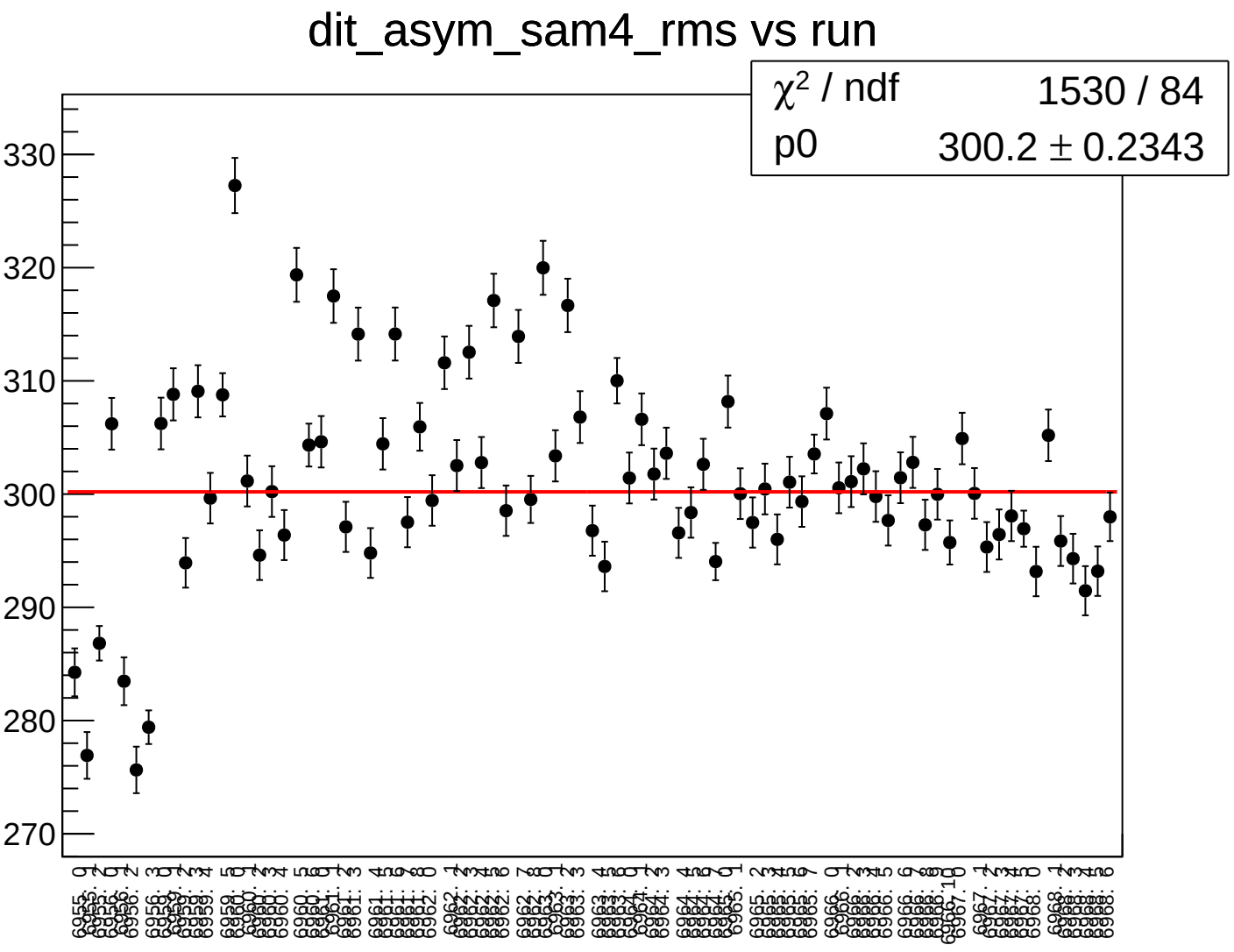

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 76.74 / 84
p0 −1423 ± 2724
×10³
pull
Entries 85
Mean 218.7
Std Dev 0

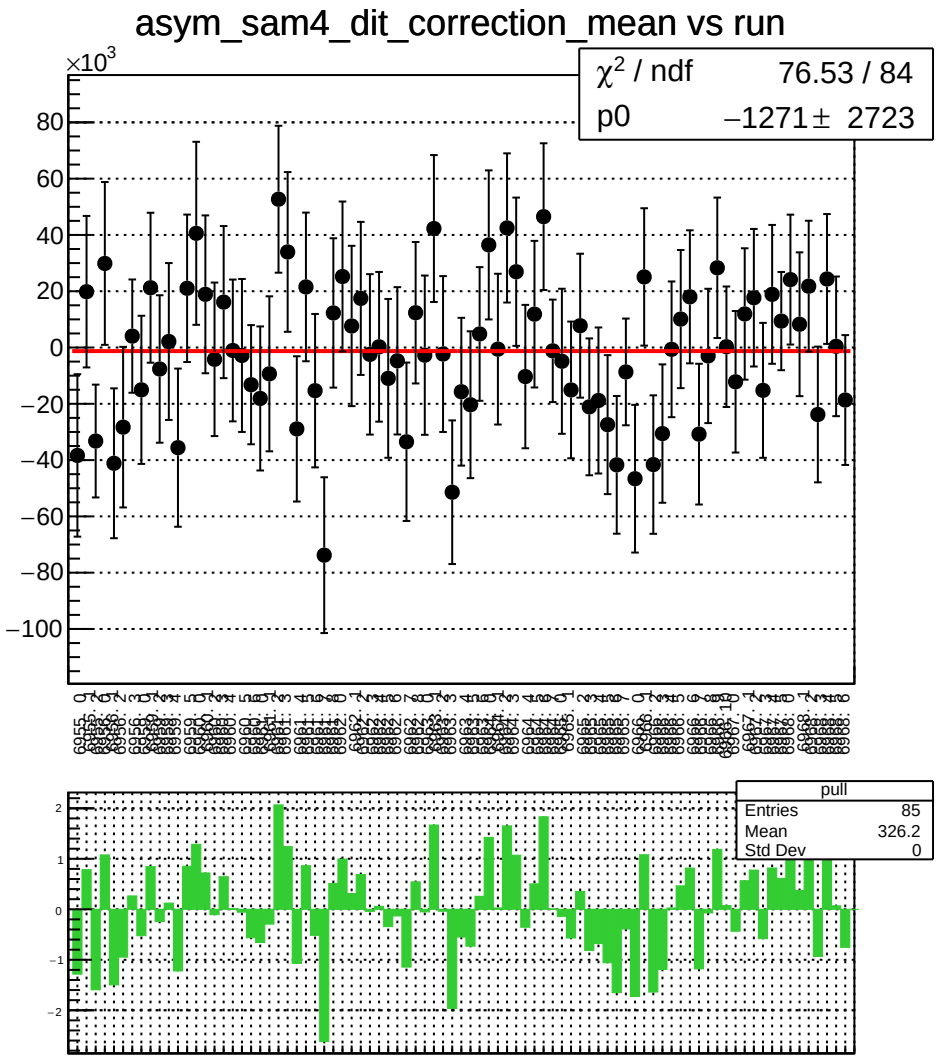

pull1D
Entries 85
Mean 0.005223
Std Dev 0.9502

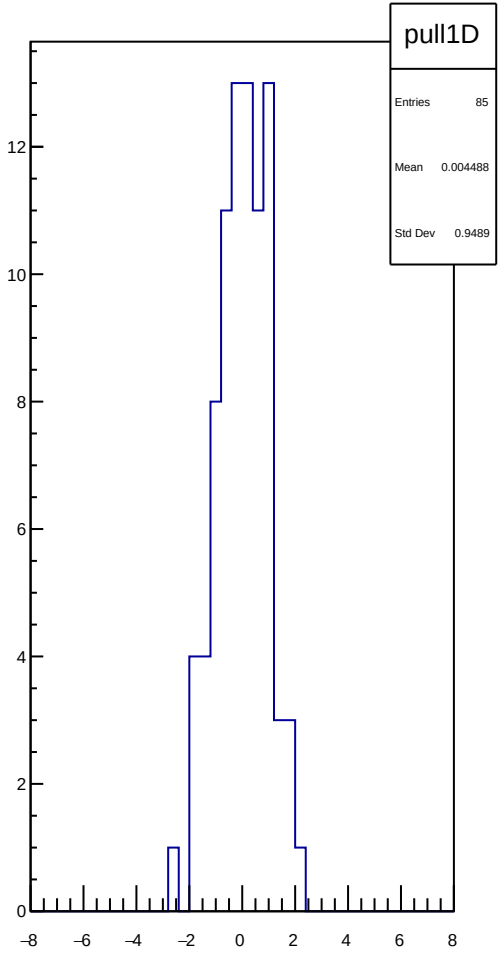

asym_sam4_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 8997 / 84
p0 2461 ± 1.926
3200
3000
2800
2600
2400
2200

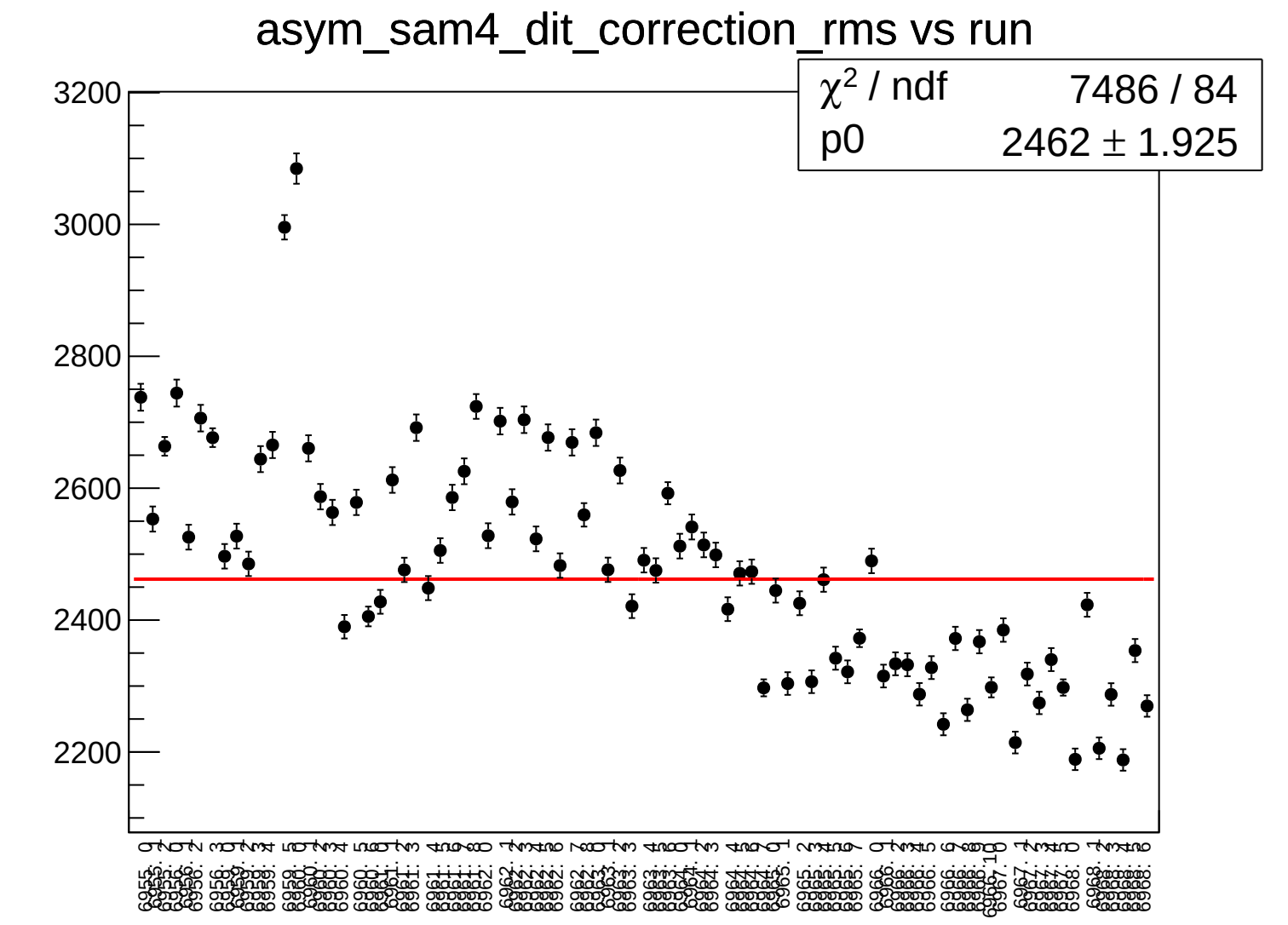

dit_asym_sam4_mean vs run
$\chi^2$ / ndf 78.5 / 84
p0 135.3 ± 331.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 763.7
Std Dev 0
2
1
0
−1
−2

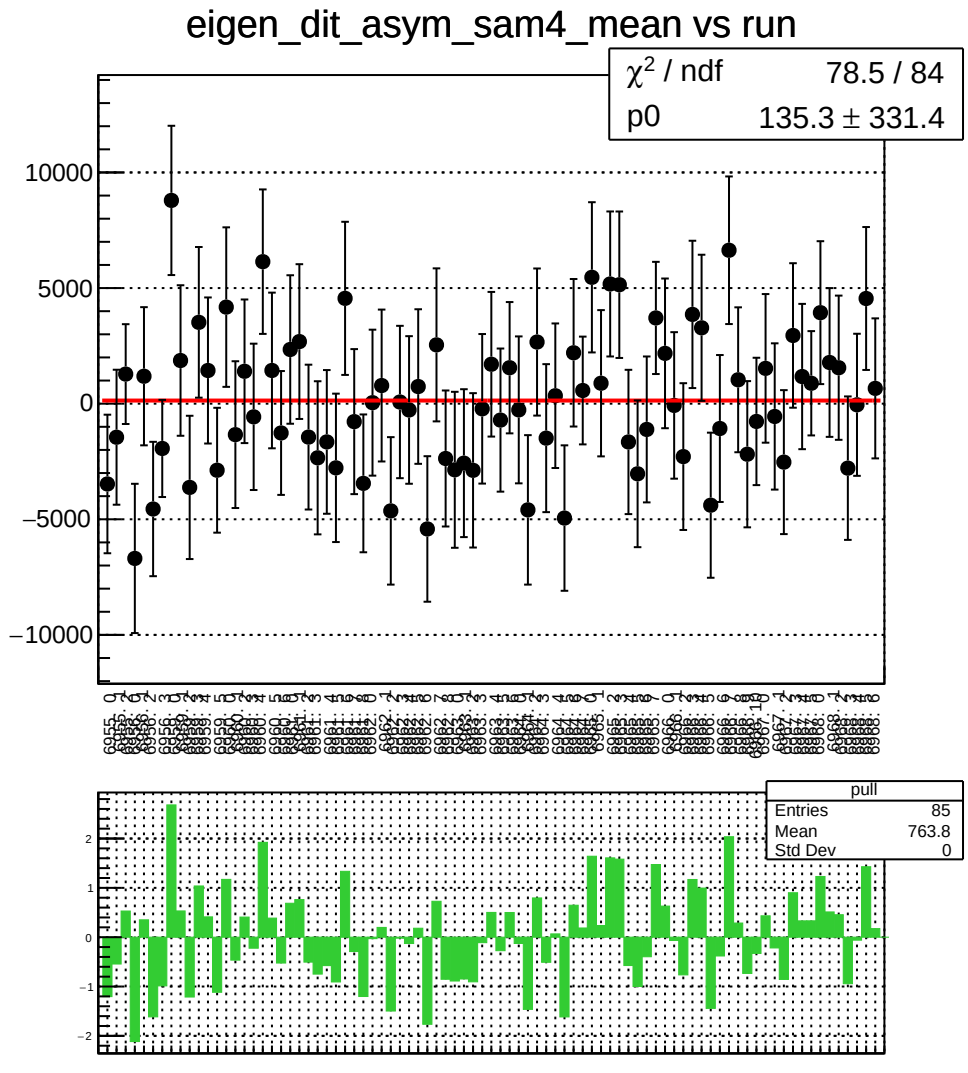

pull1D
Entries 85
Mean 0.00541
Std Dev 0.961
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

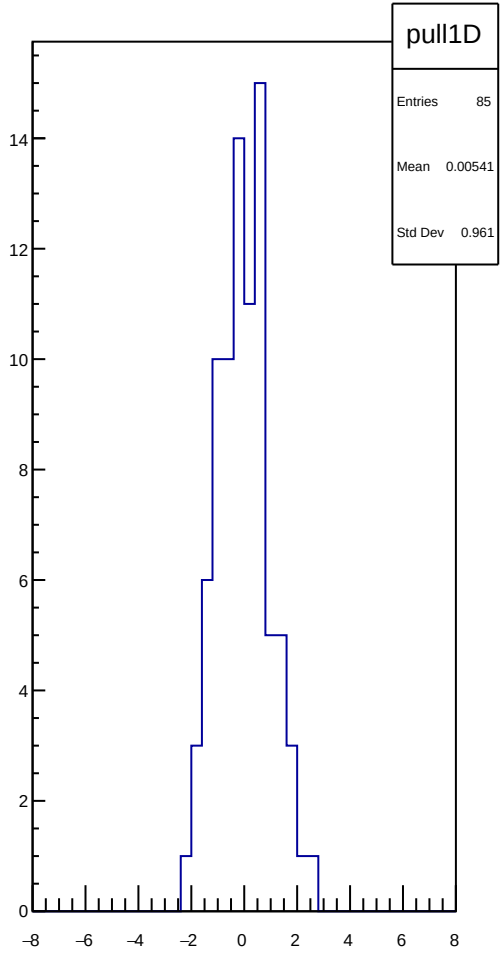

dit_asym_sam4_rms vs run
χ² / ndf 1530 / 84
p0 300.2 ± 0.2343
330
320
310
300
290
280
270

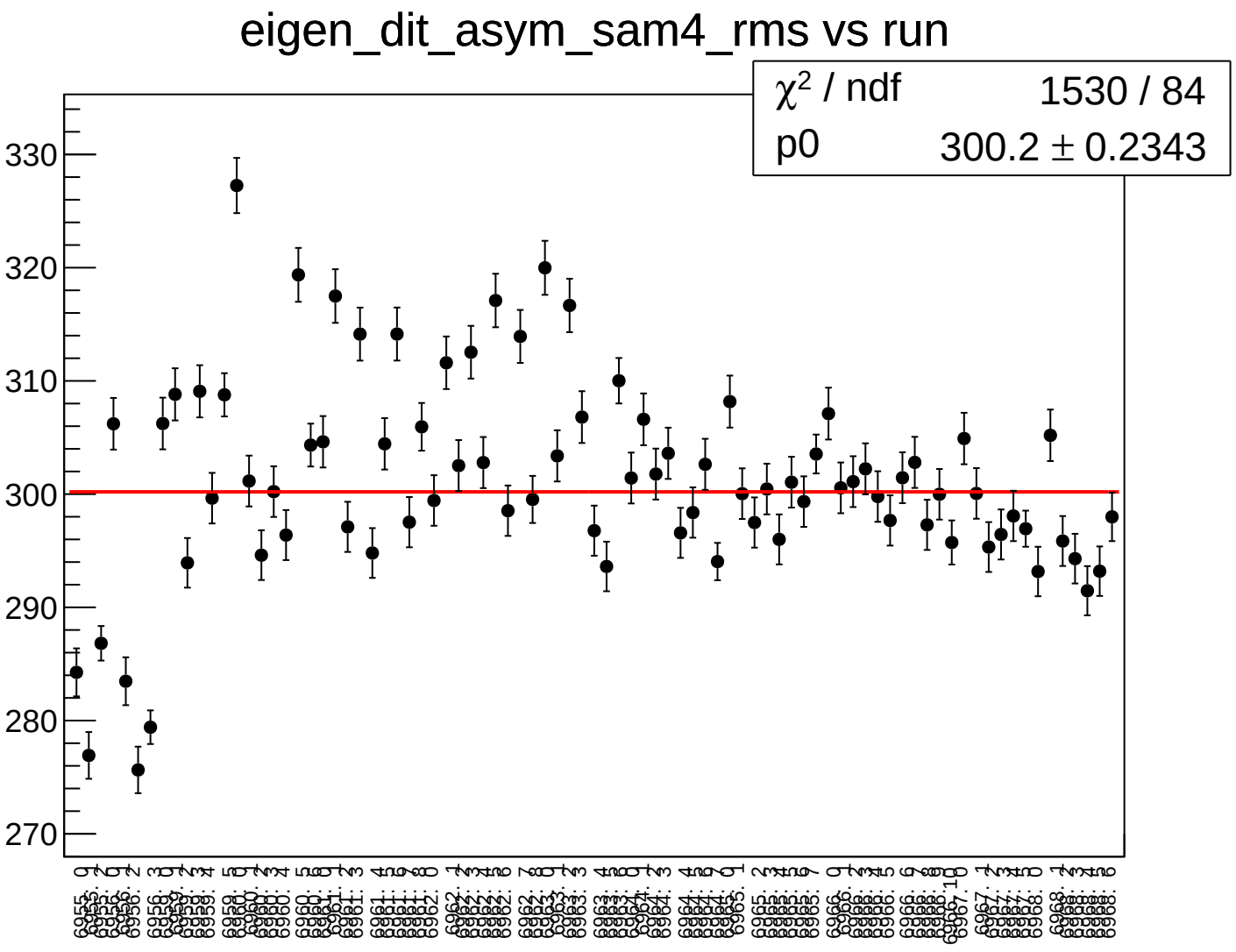

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 76.53 / 84
p0 −1271 ± 2723
pull
Entries 85
Mean 326.2
Std Dev 0

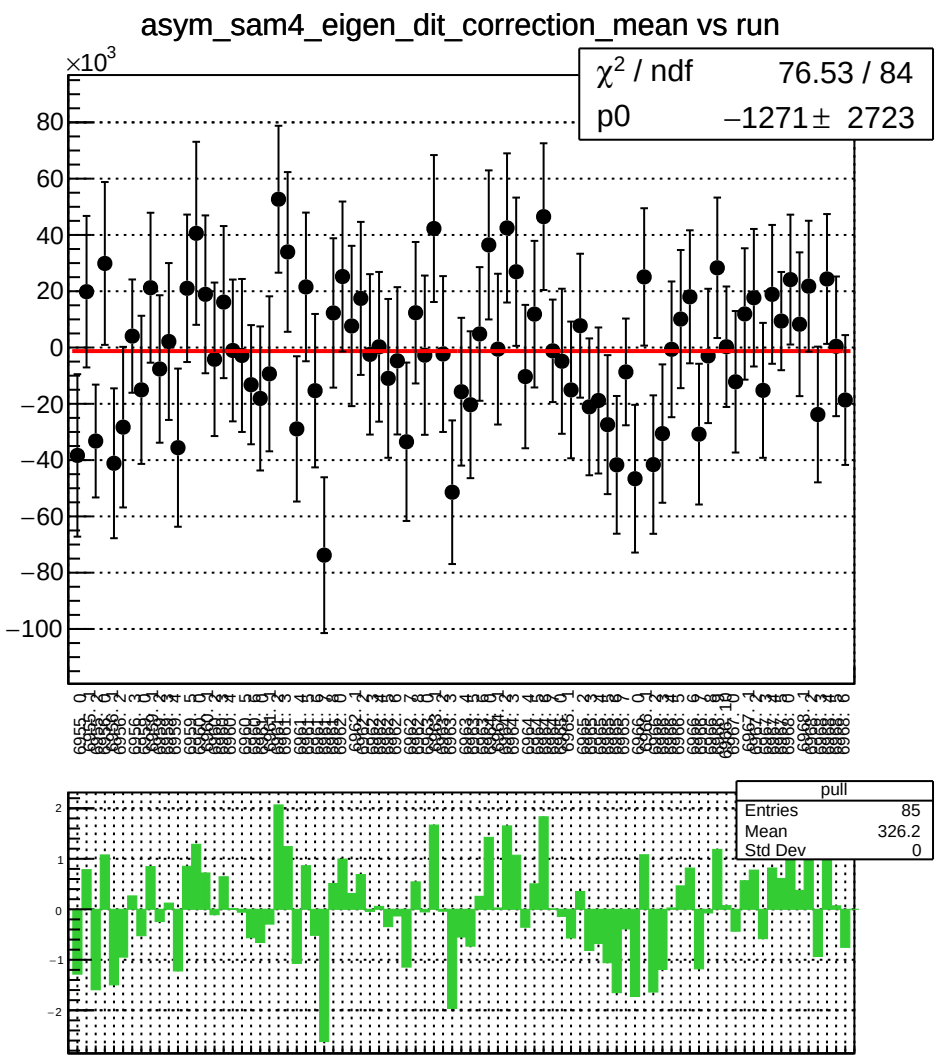

pull1D
Entries 85
Mean 0.004488
Std Dev 0.9489

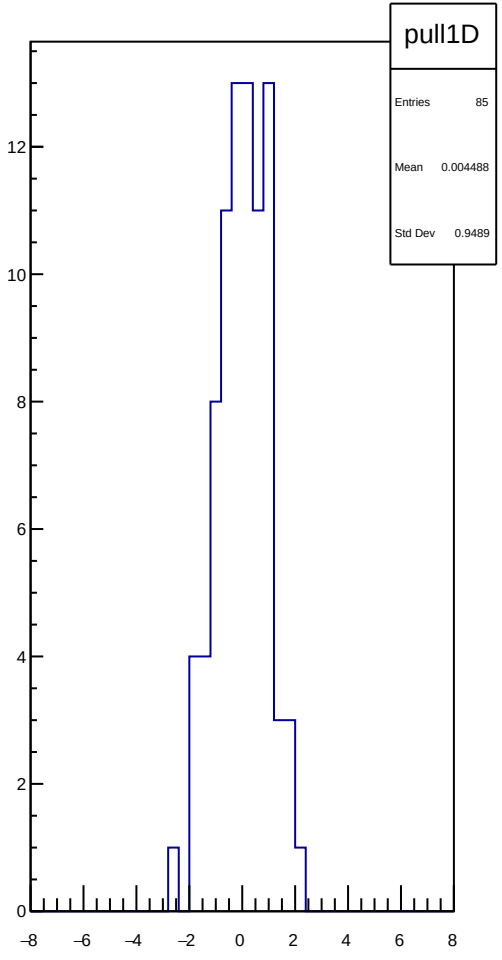

asym_sam4_dit_correction_rms vs run
χ² / ndf 7486 / 84
p0 2462 ± 1.925
3200
3000
2800
2600
2400
2200

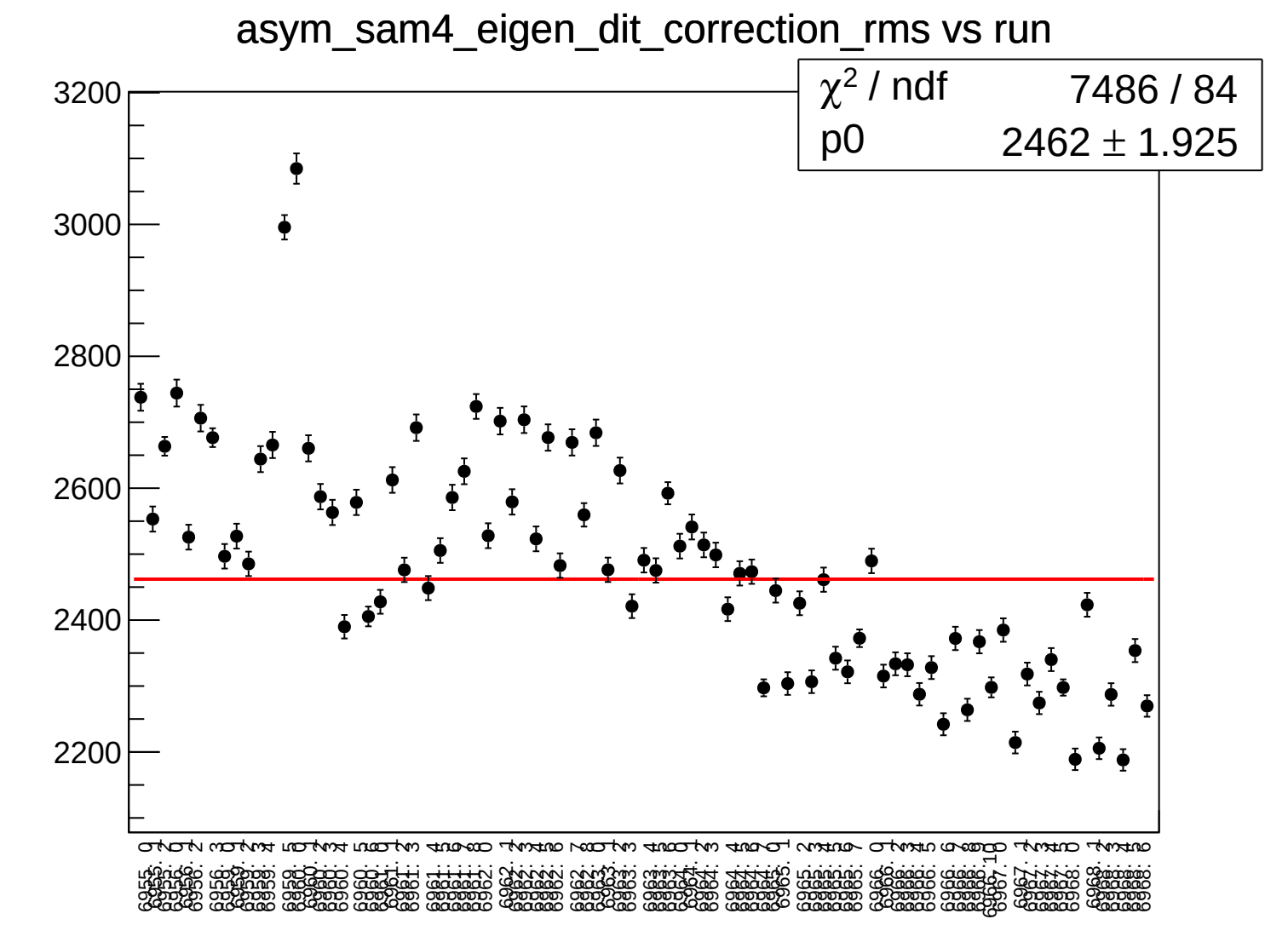

eigen_dit_asym_sam4_mean vs run
χ² / ndf 78.5 / 84
p0 135.3 ± 331.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 763.8
Std Dev 0
2
1
0
−1
−2

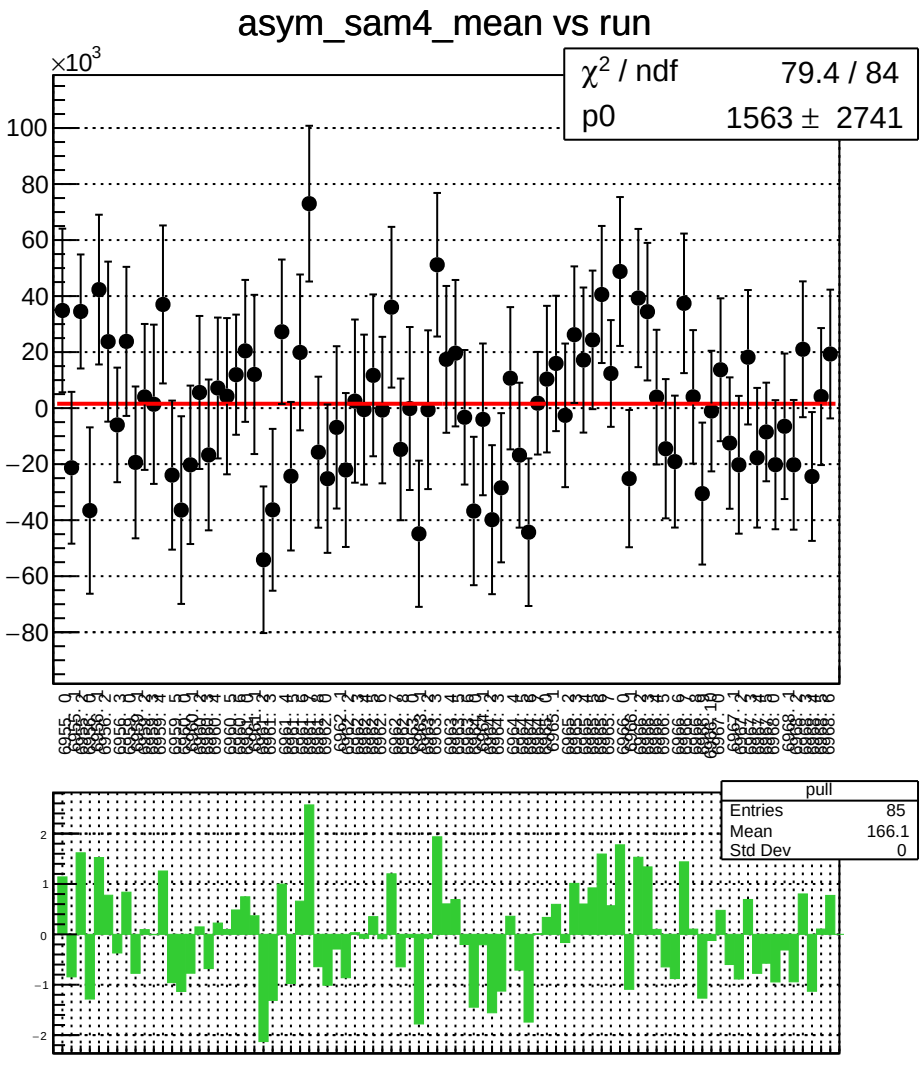

pull1D
Entries 85
Mean 0.00541
Std Dev 0.961
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

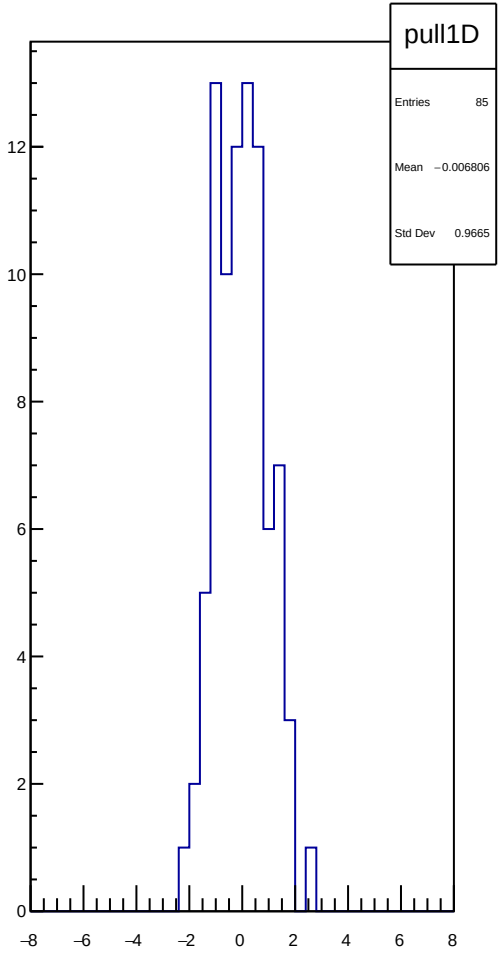

eigen_dit_asym_sam4_rms vs run
χ² / ndf 1530 / 84
p0 300.2 ± 0.2343
330
320
310
300
290
280
270

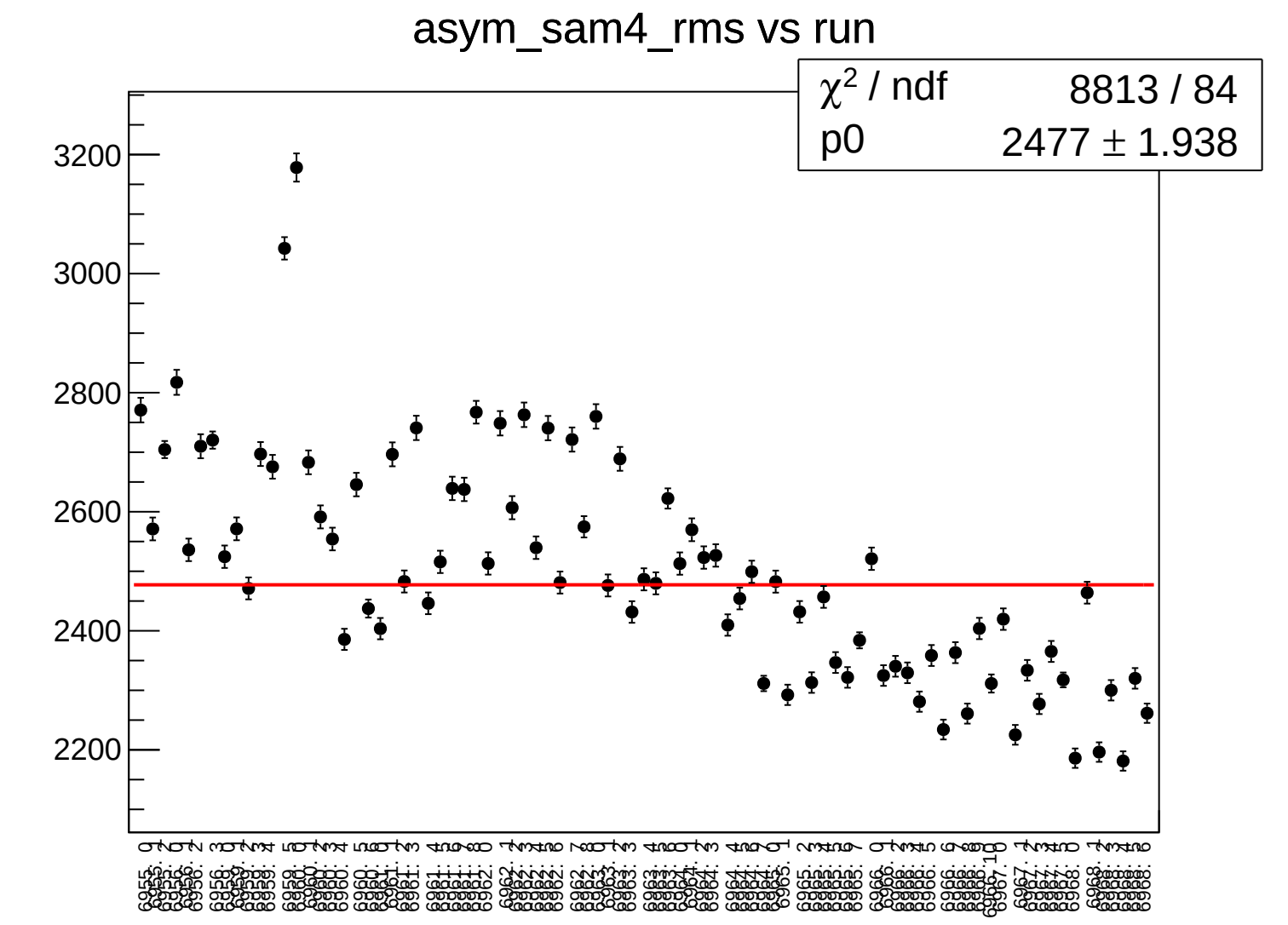

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 76.53 / 84
p0 −1271 ± 2723
pull
Entries 85
Mean 326.2
Std Dev 0

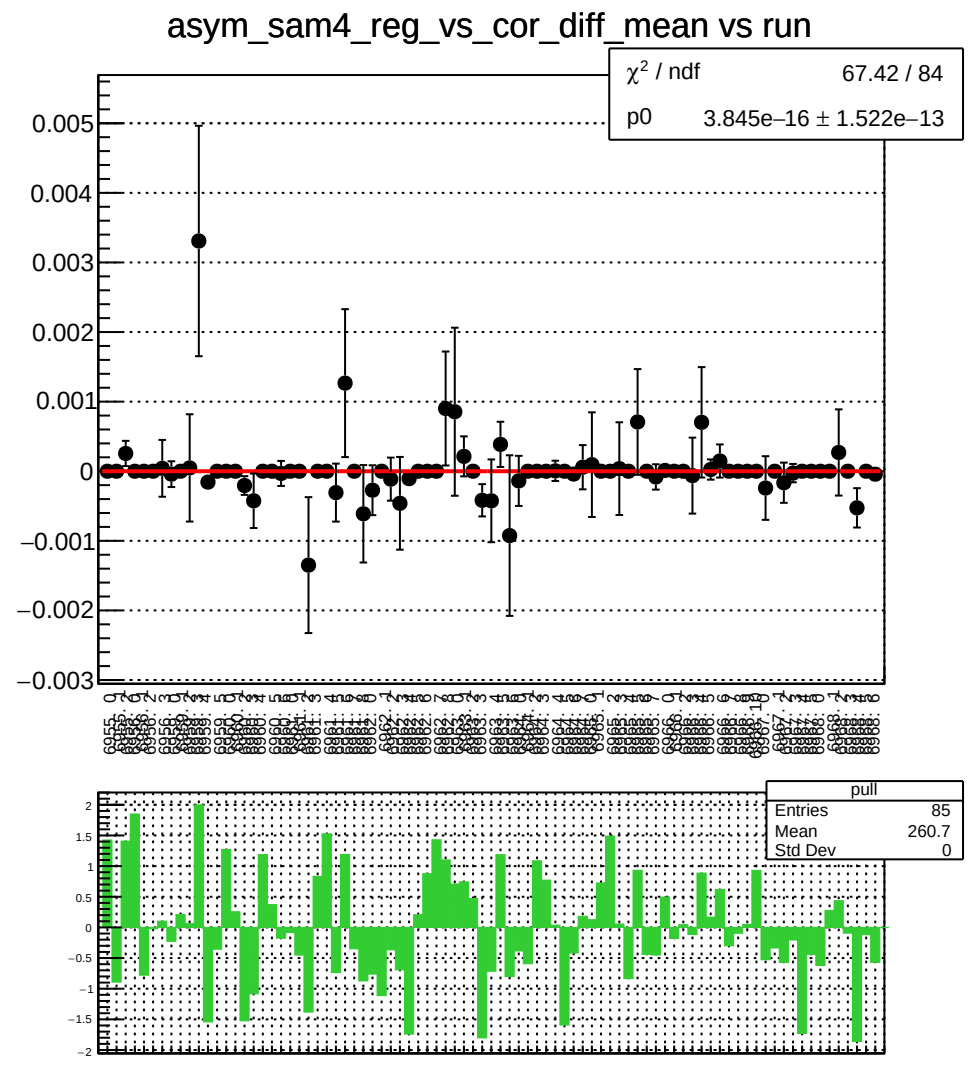

pull1D
Entries 85
Mean 0.004488
Std Dev 0.9489

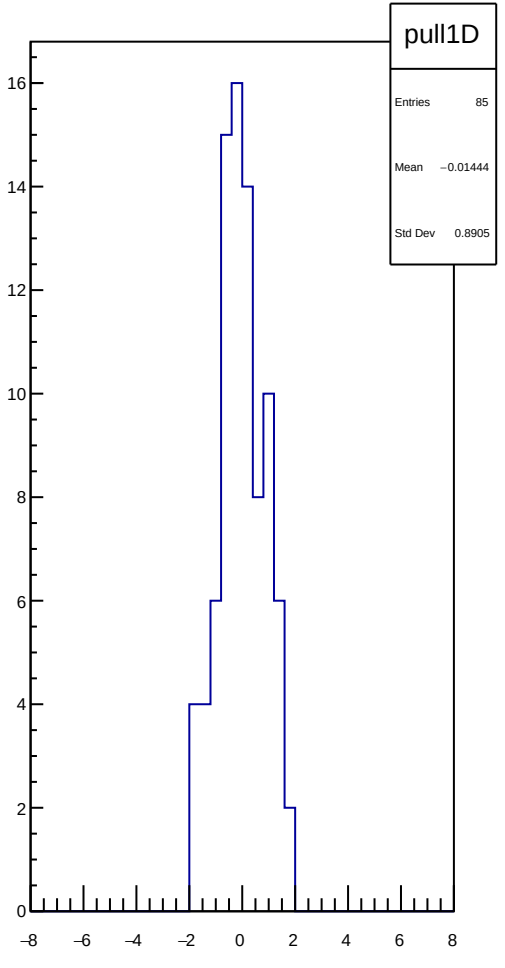

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 7486 / 84
p0 2462 ± 1.925
3200
3000
2800
2600
2400
2200

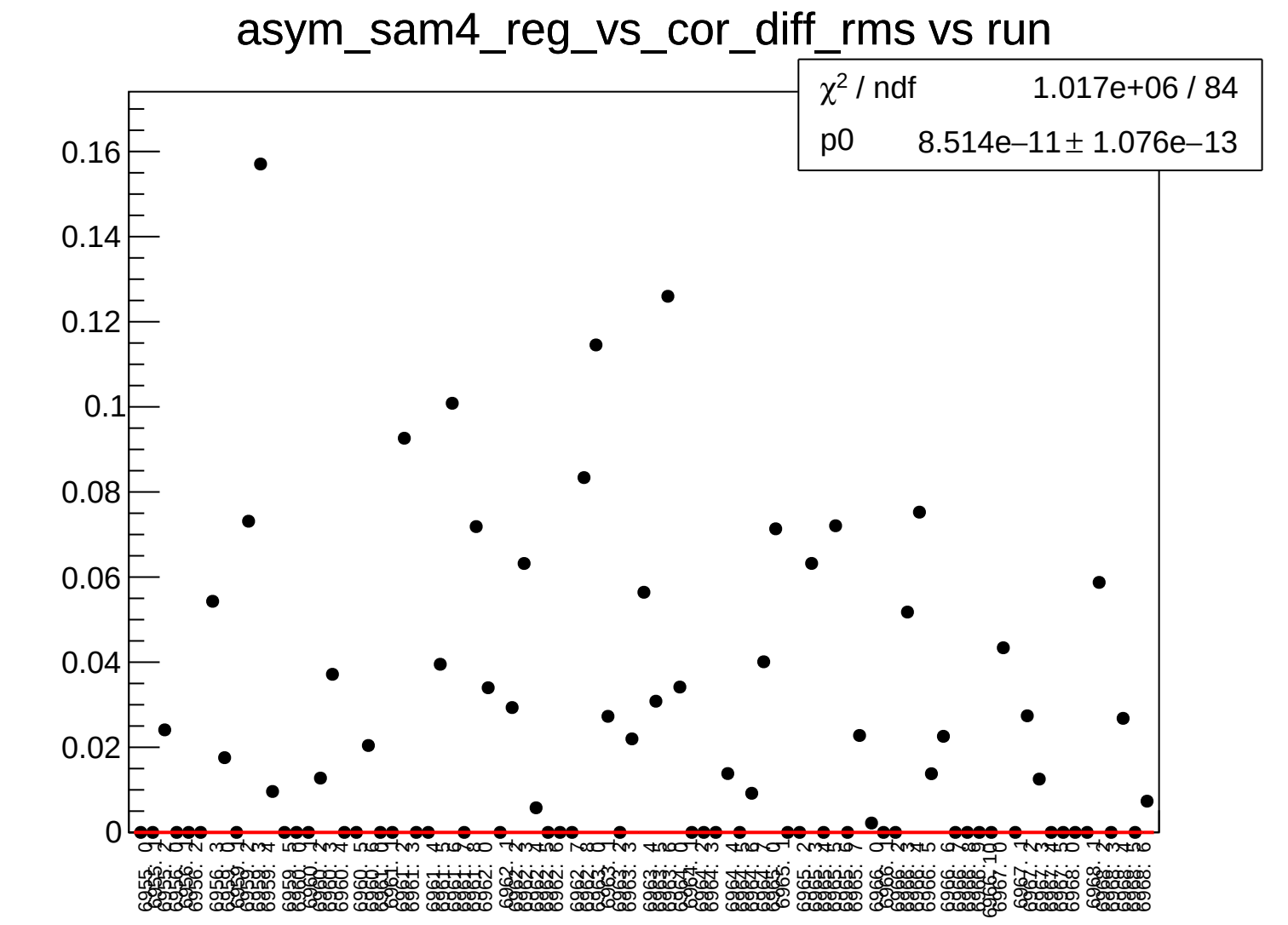

asym_sam4_mean vs run
×10^3
χ^2 / ndf 79.4 / 84
p0 1563 ± 2741
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 85
Mean 166.1
Std Dev 0
2
1
0
−1
−2

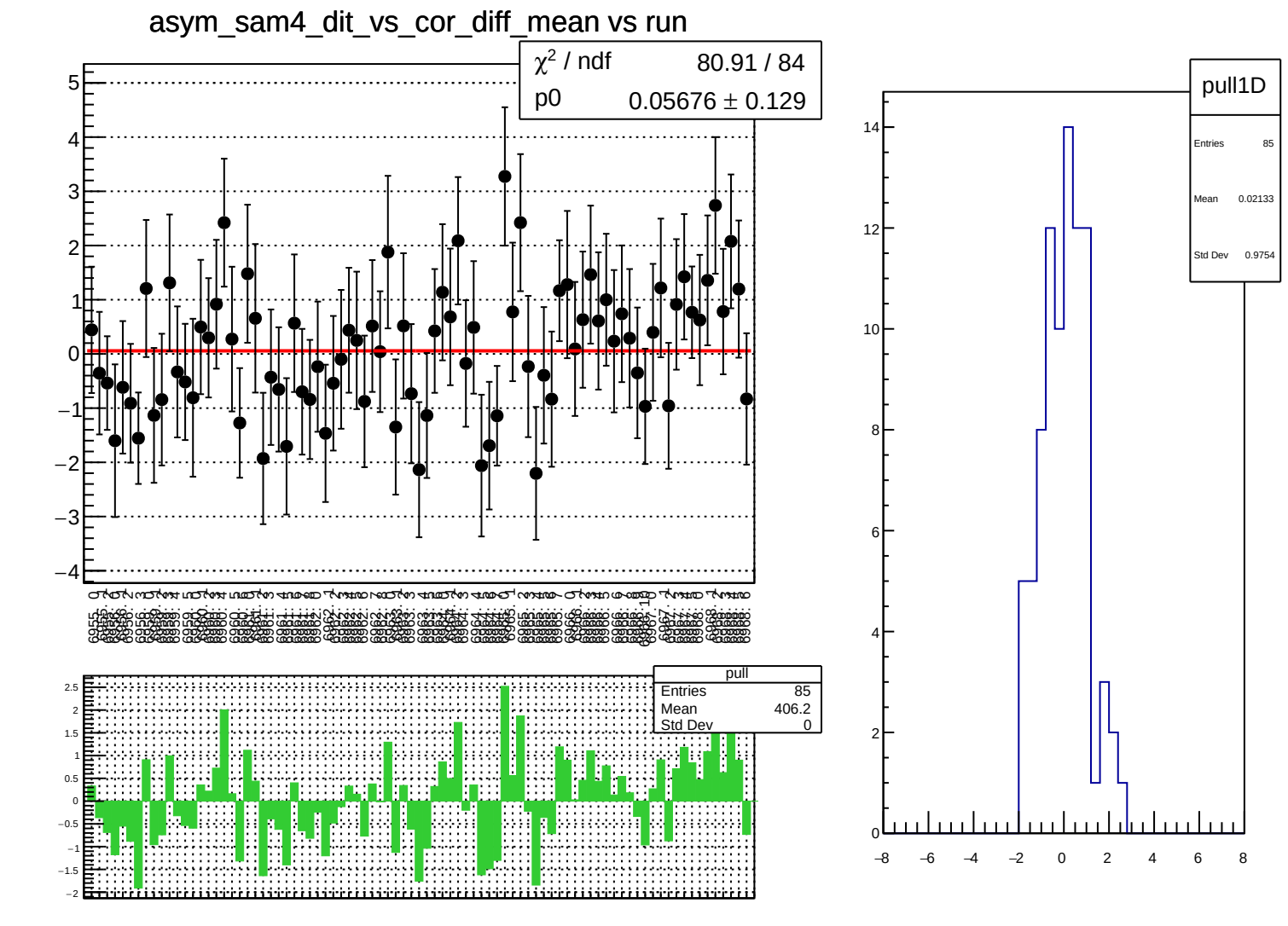

pull1D
Entries 85
Mean −0.006806
Std Dev 0.9665
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

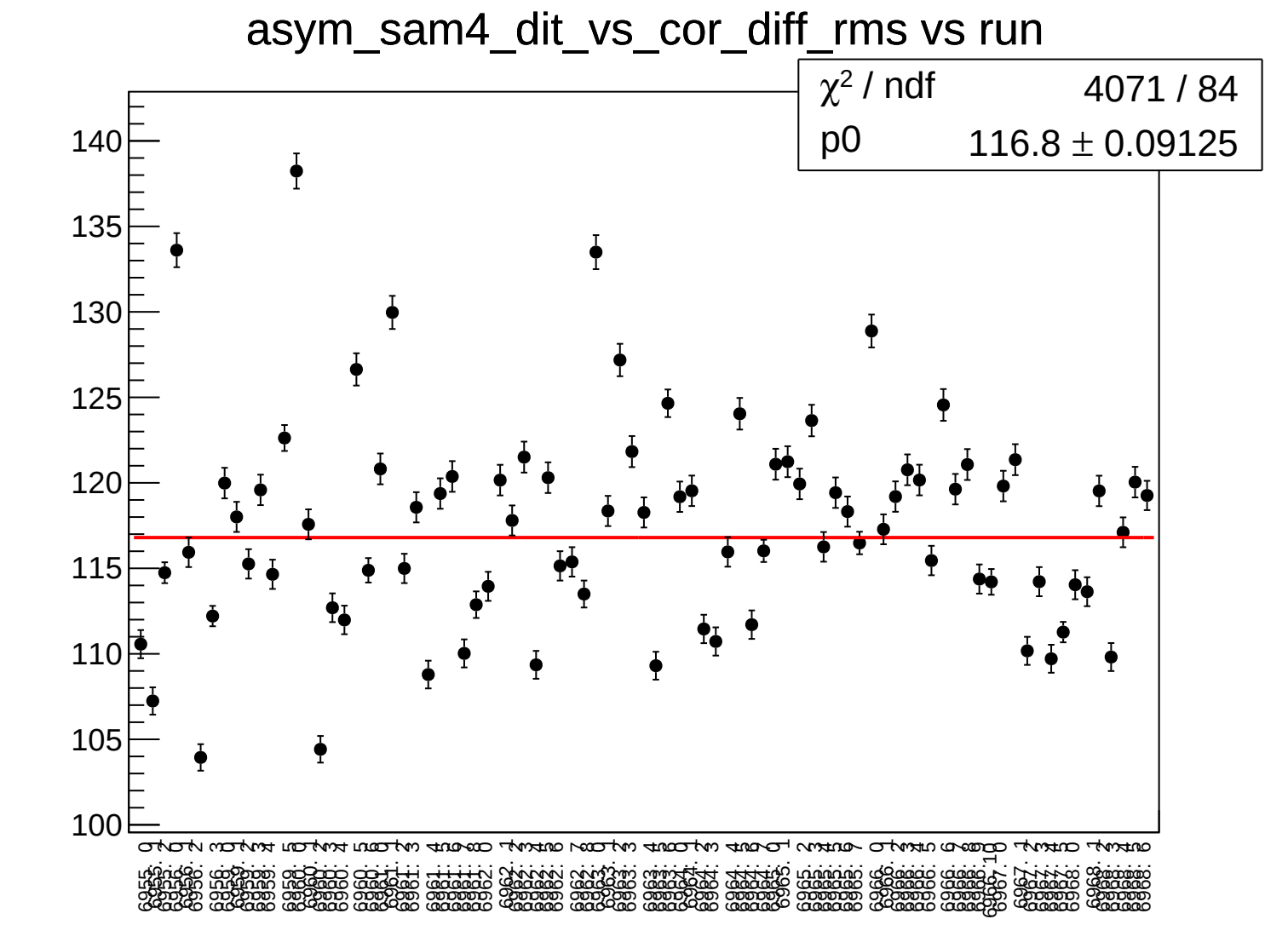

asym_sam4_rms vs run
χ² / ndf 8813 / 84
p0 2477 ± 1.938
3200
3000
2800
2600
2400
2200

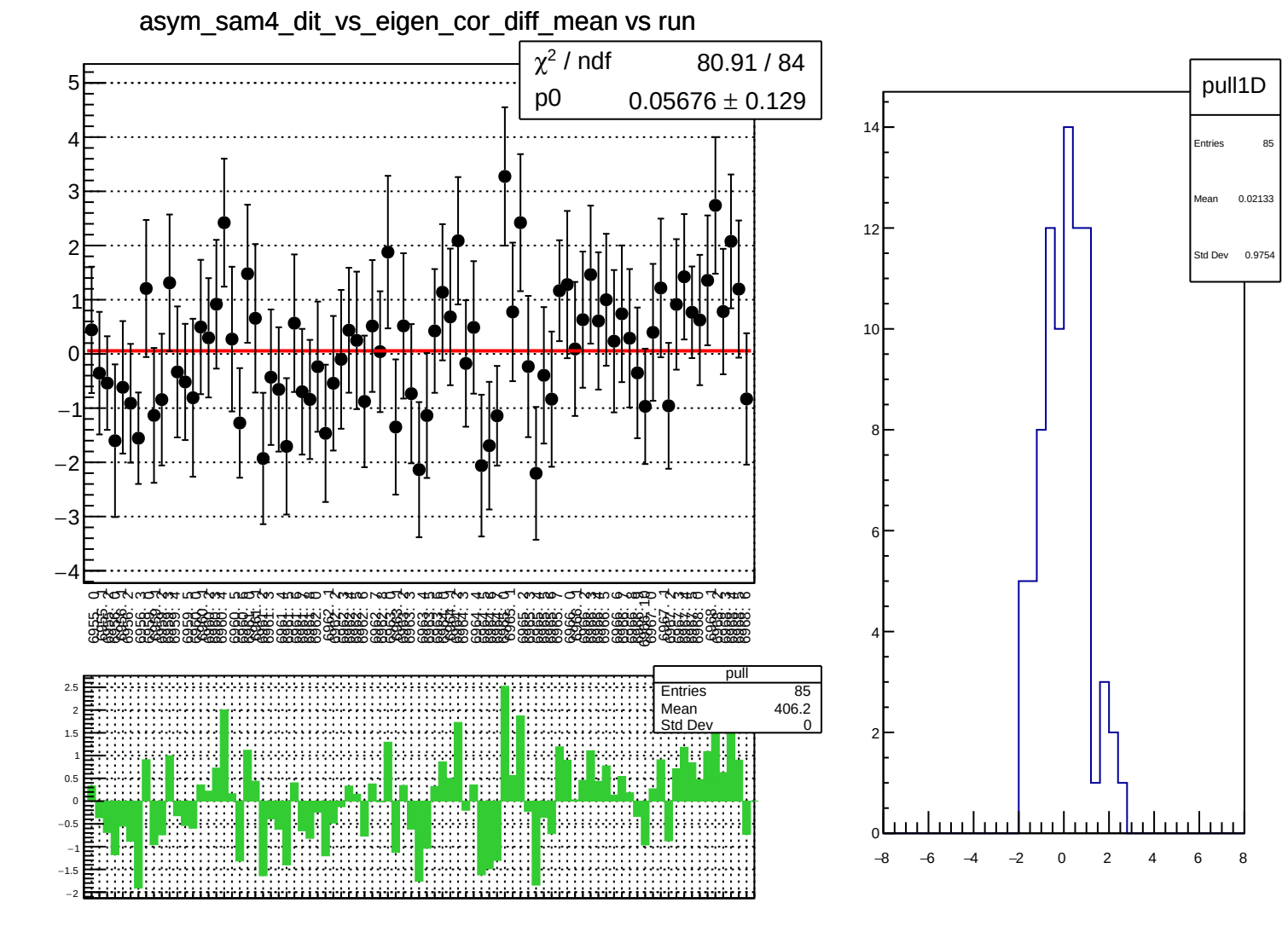

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 67.42 / 84
p0 3.845e−16 ± 1.522e−13
pull
Entries 85
Mean 260.7
Std Dev 0

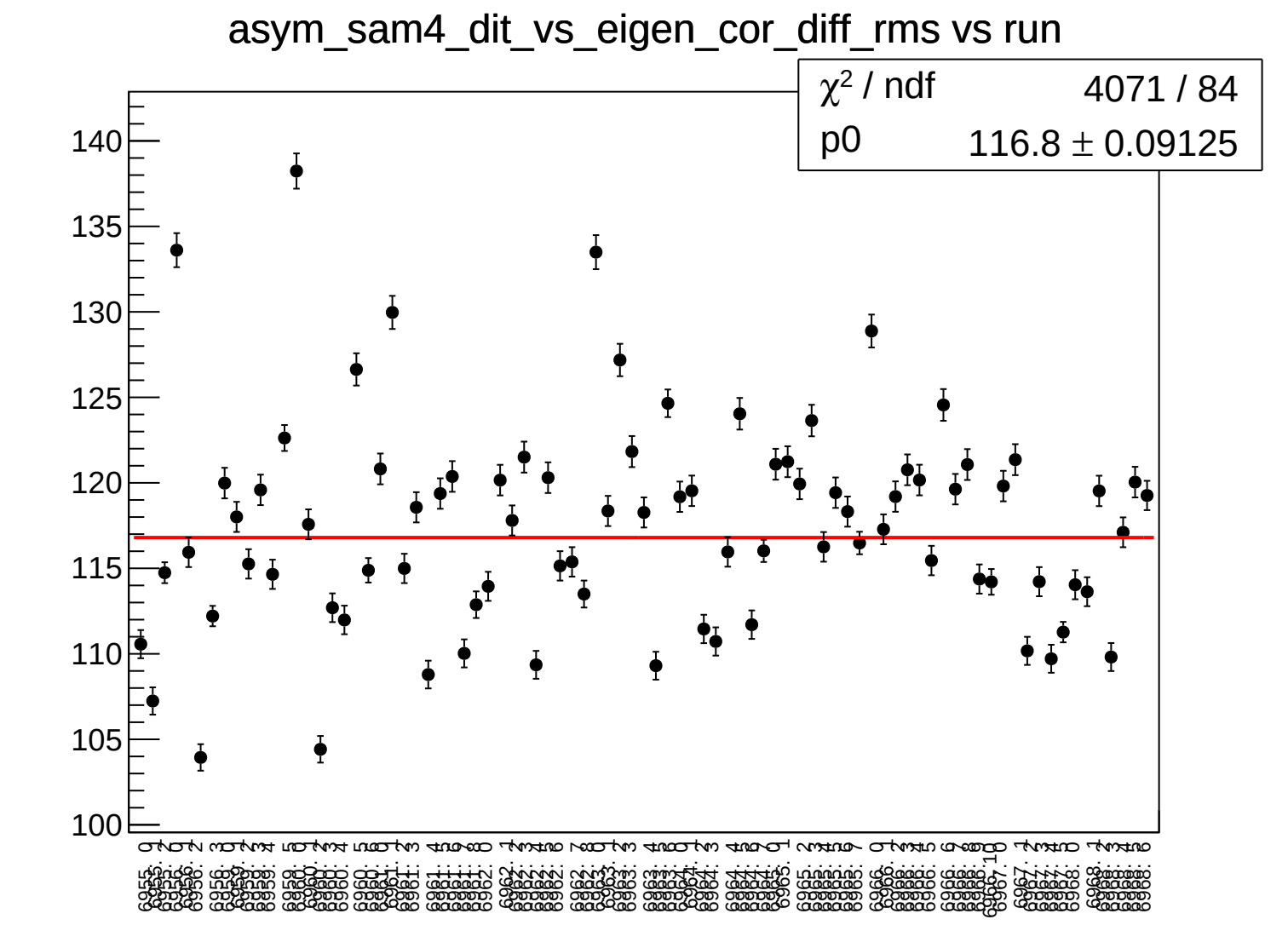

pull1D
Entries 85
Mean −0.01444
Std Dev 0.8905

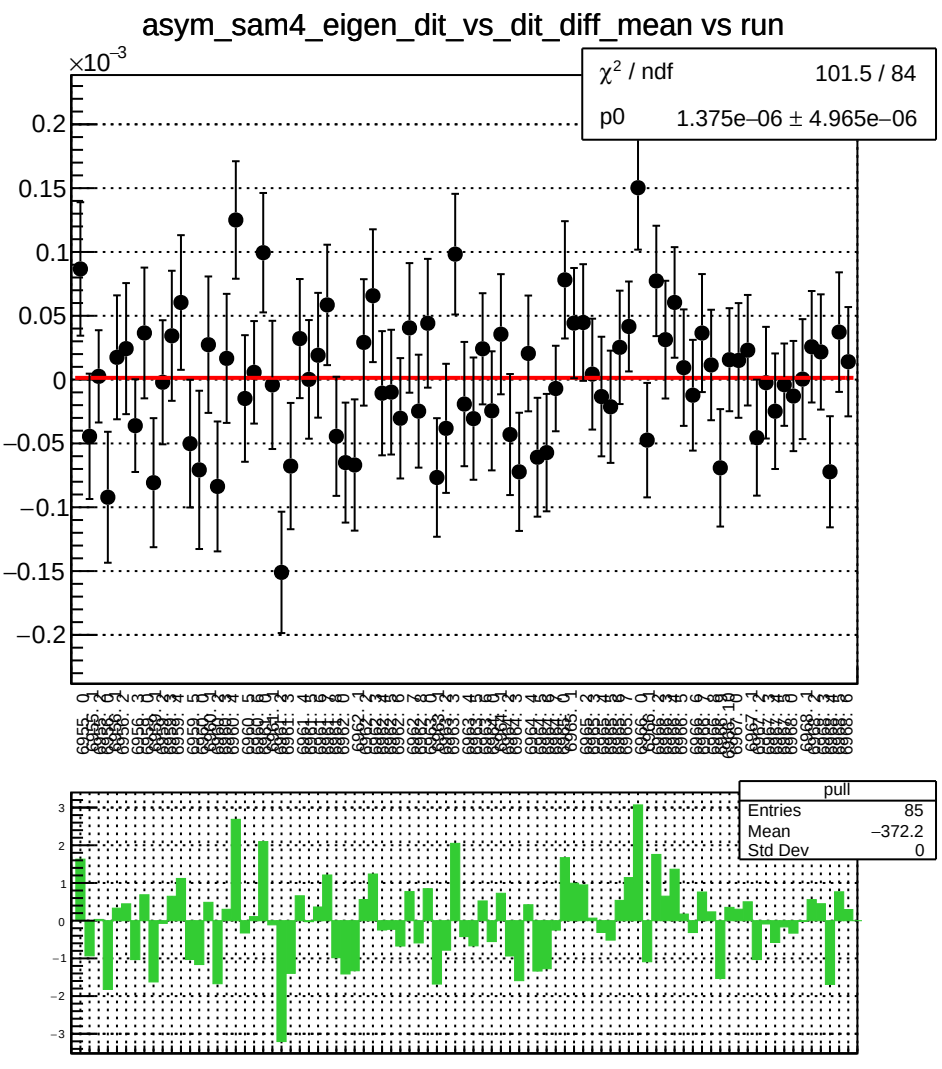

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.017e+06 / 84
p0 8.514e−11 ± 1.076e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

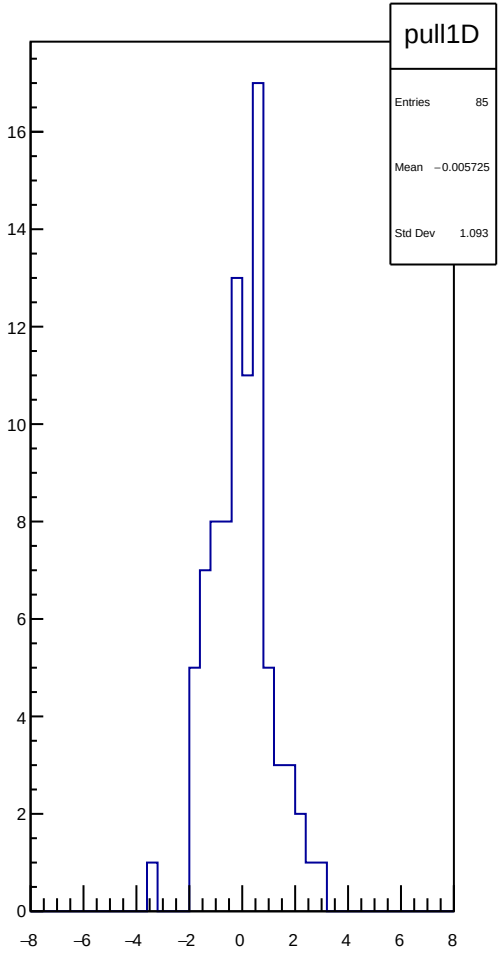

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 80.91 / 84
p0 0.05676 ± 0.129
pull
Entries 85
Mean 406.2
Std Dev 0
pull1D
Entries 85
Mean 0.02133
Std Dev 0.9754

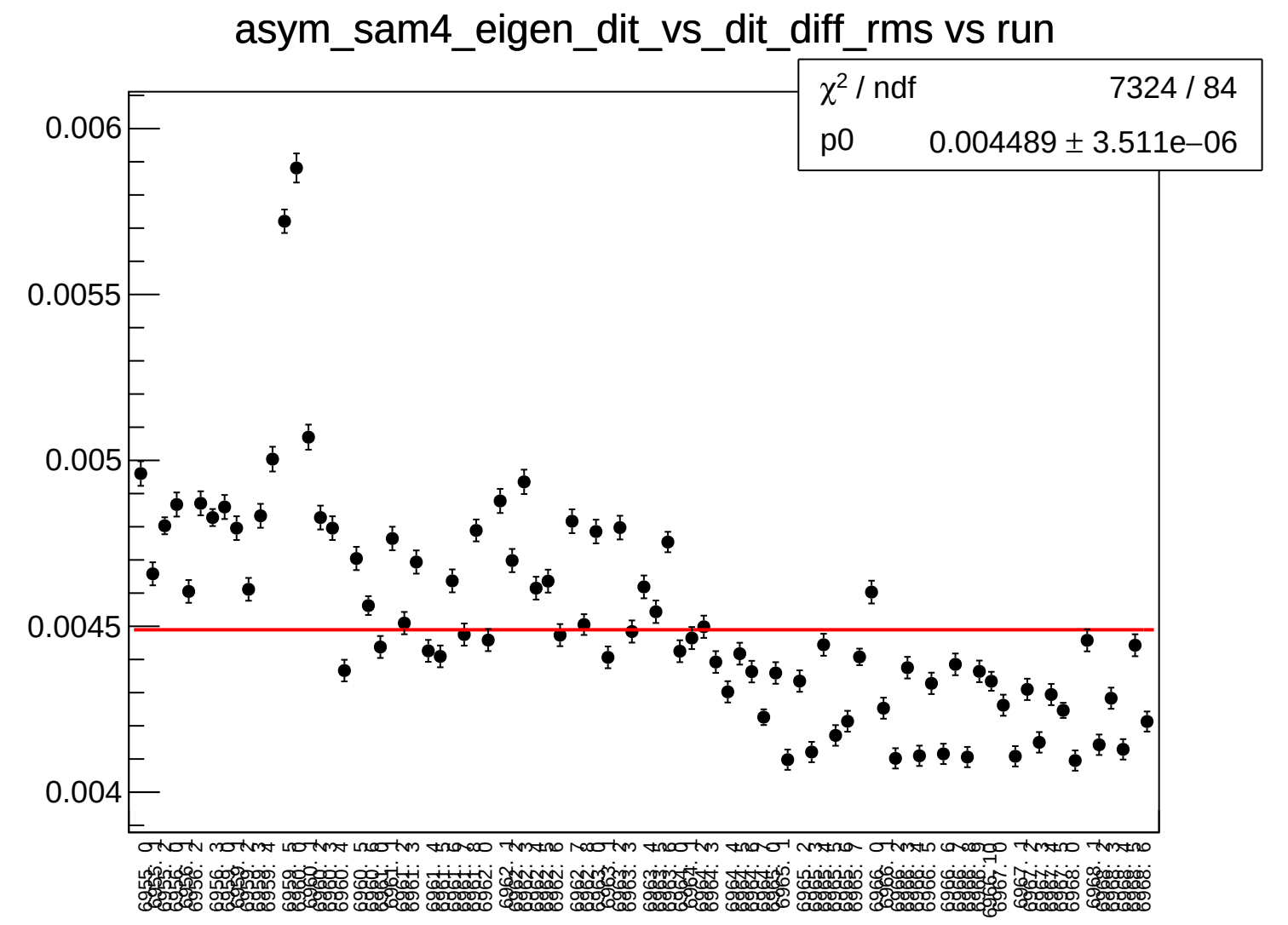

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 4071 / 84
p0 116.8 ± 0.09125
140
135
130
125
120
115
110
105
100

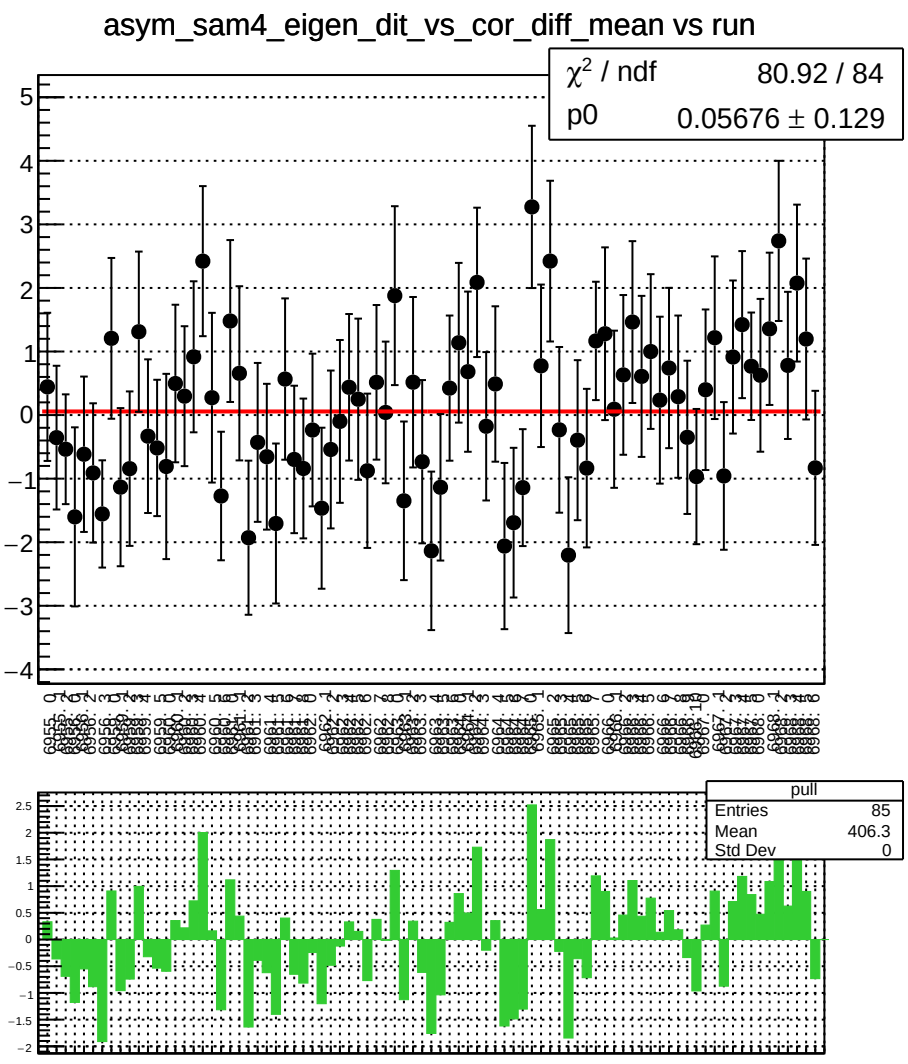

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.91 / 84
p0 0.05676 ± 0.129
pull
Entries 85
Mean 406.2
Std Dev 0
pull1D
Entries 85
Mean 0.02133
Std Dev 0.9754

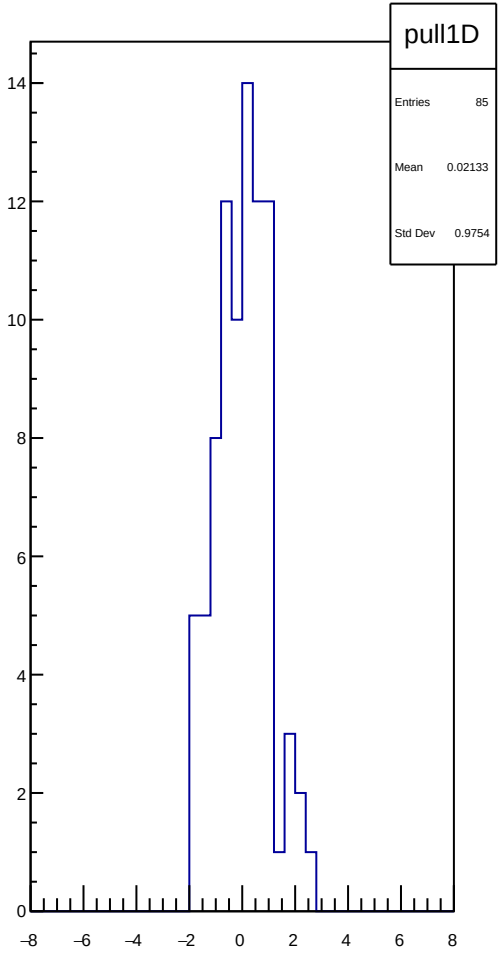

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4071 / 84
p0 116.8 ± 0.09125
140
135
130
125
120
115
110
105
100

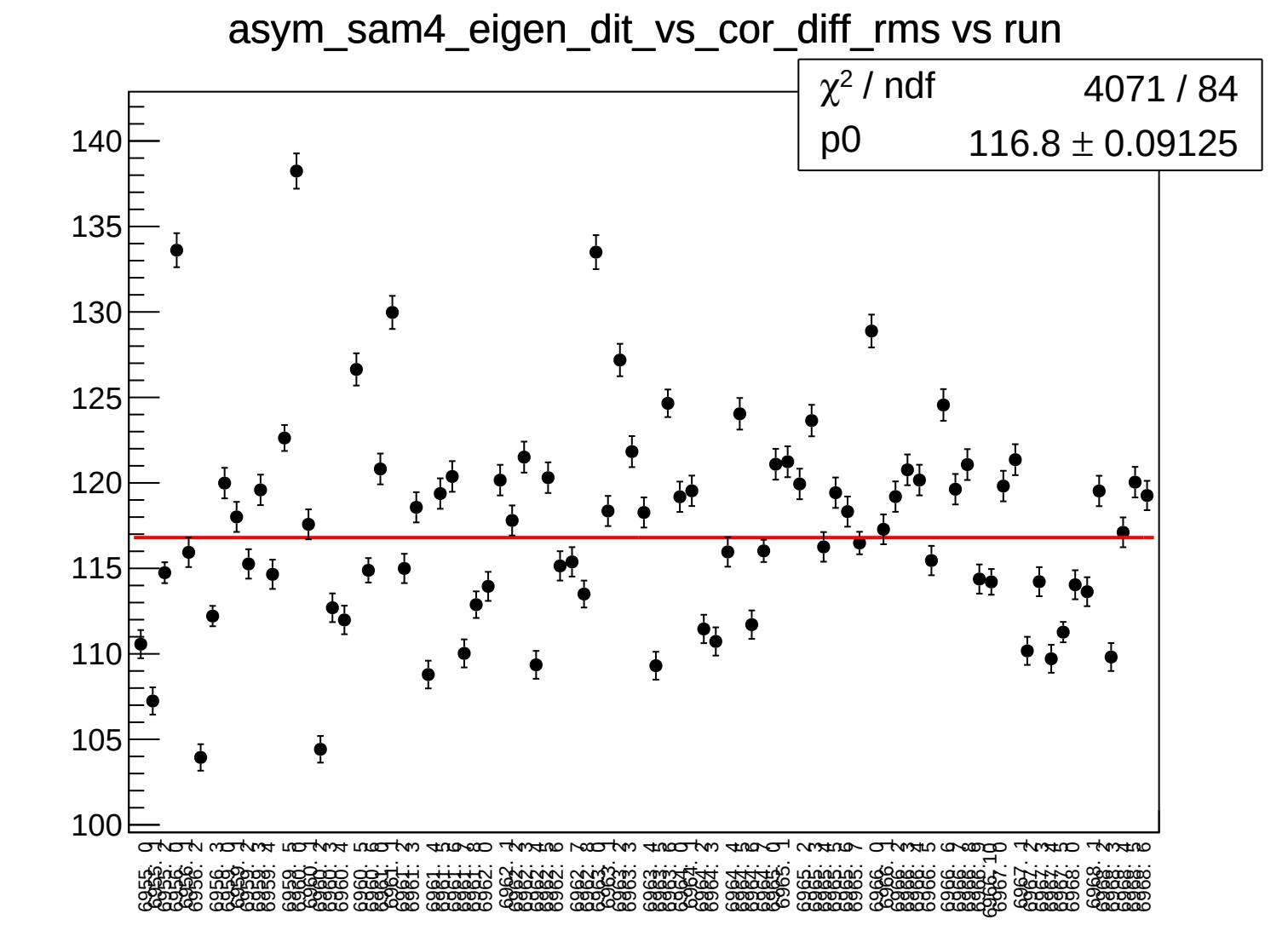

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.5 / 84
p0 1.375e−06 ± 4.965e−06
pull
Entries 85
Mean −372.2
Std Dev 0

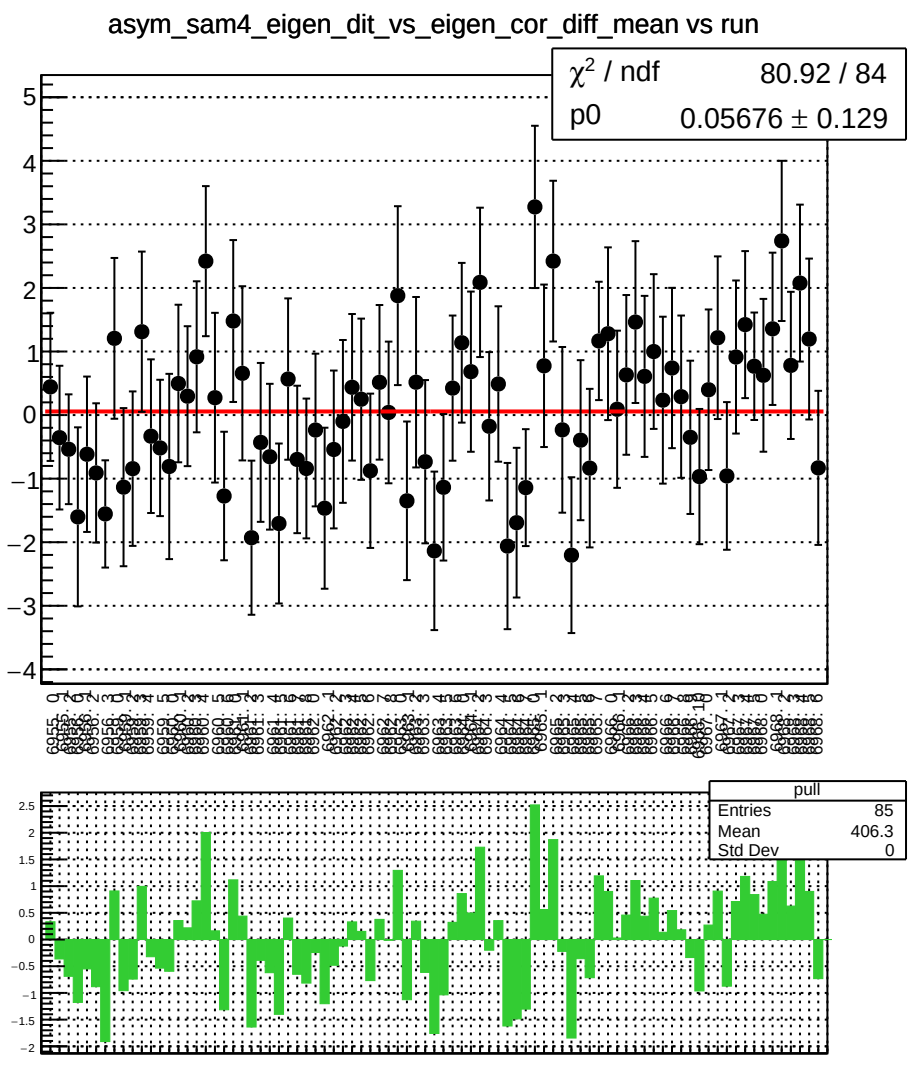

pull1D
Entries 85
Mean −0.005725
Std Dev 1.093

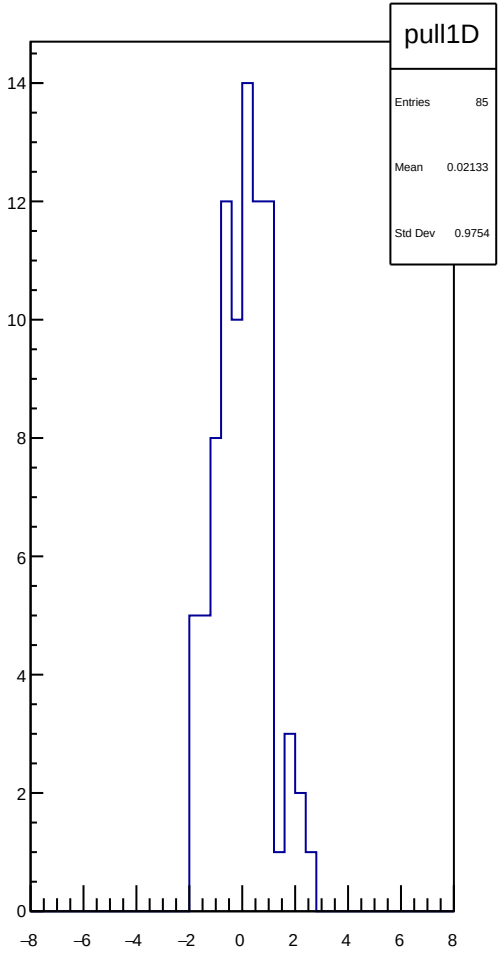

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7324 / 84
p0 0.004489 ± 3.511e−06
0.006
0.0055
0.005
0.0045
0.004

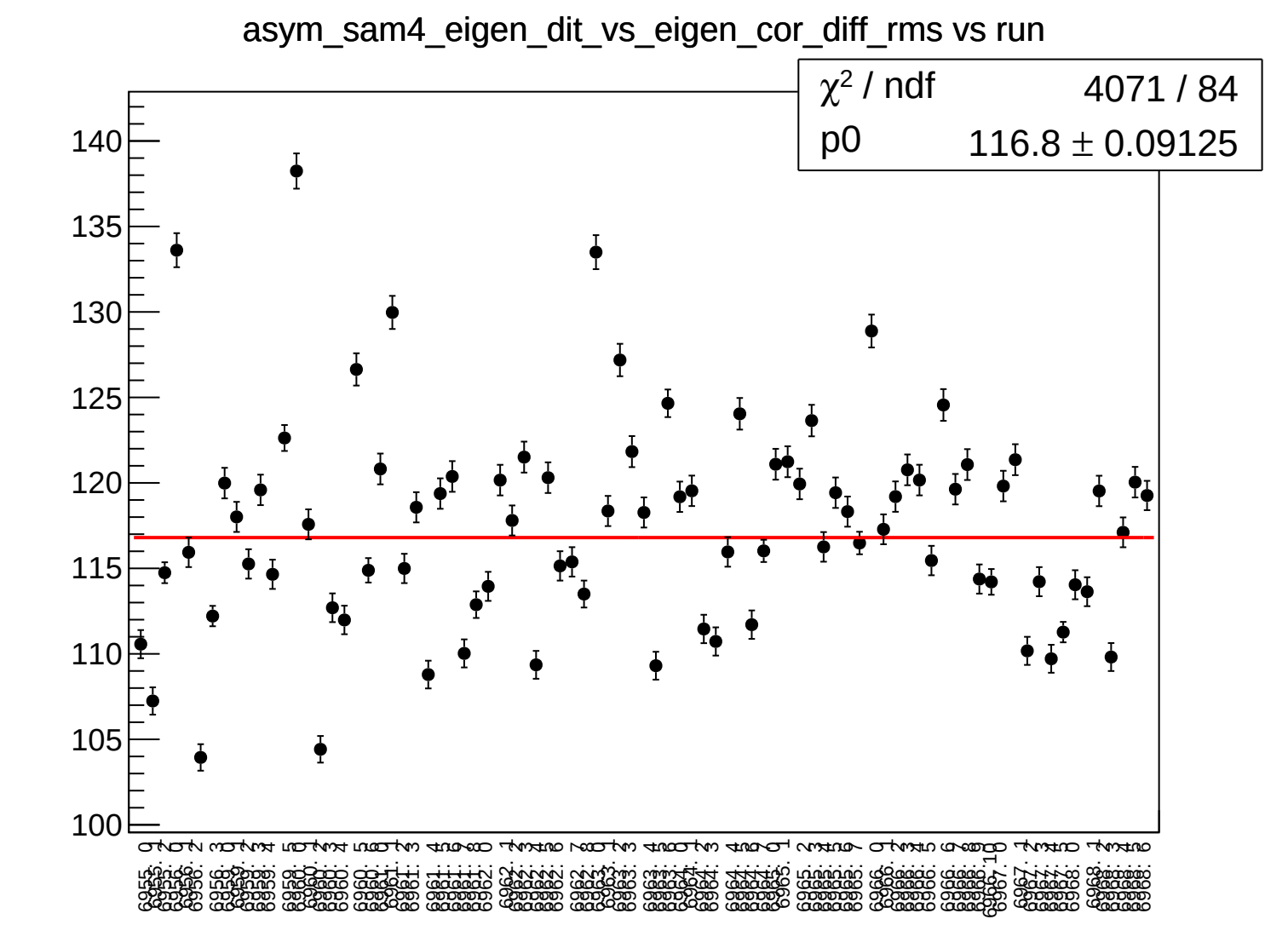

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.92 / 84
p0 0.05676 ± 0.129
pull
Entries 85
Mean 406.3
Std Dev 0

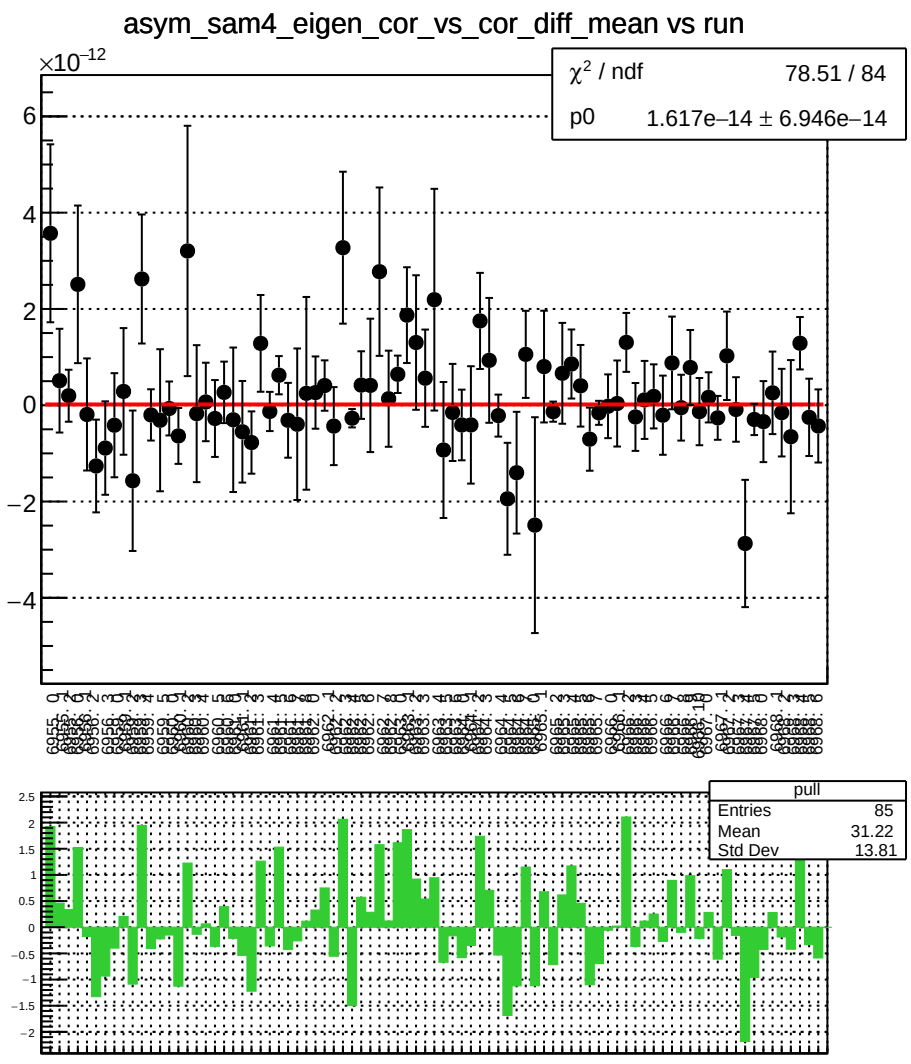

pull1D
Entries 85
Mean 0.02133
Std Dev 0.9754

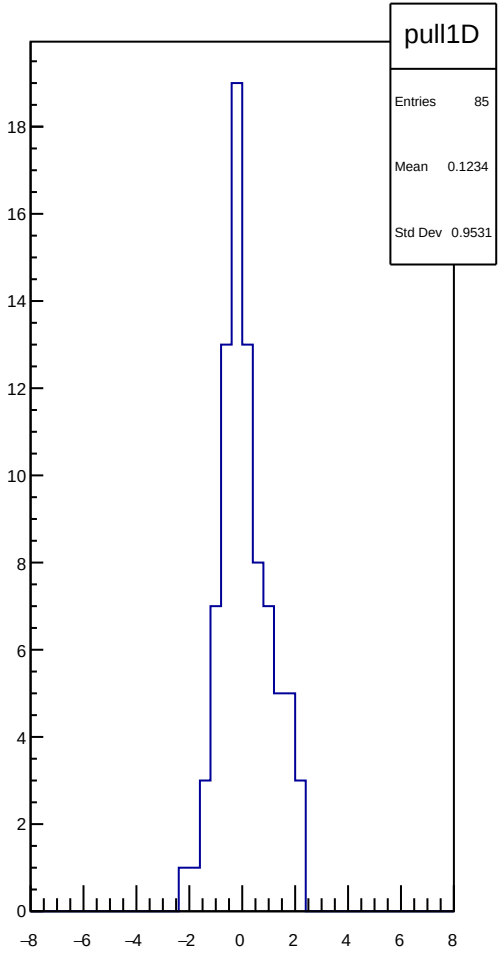

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4071 / 84
p0 116.8 ± 0.09125
140
135
130
125
120
115
110
105
100

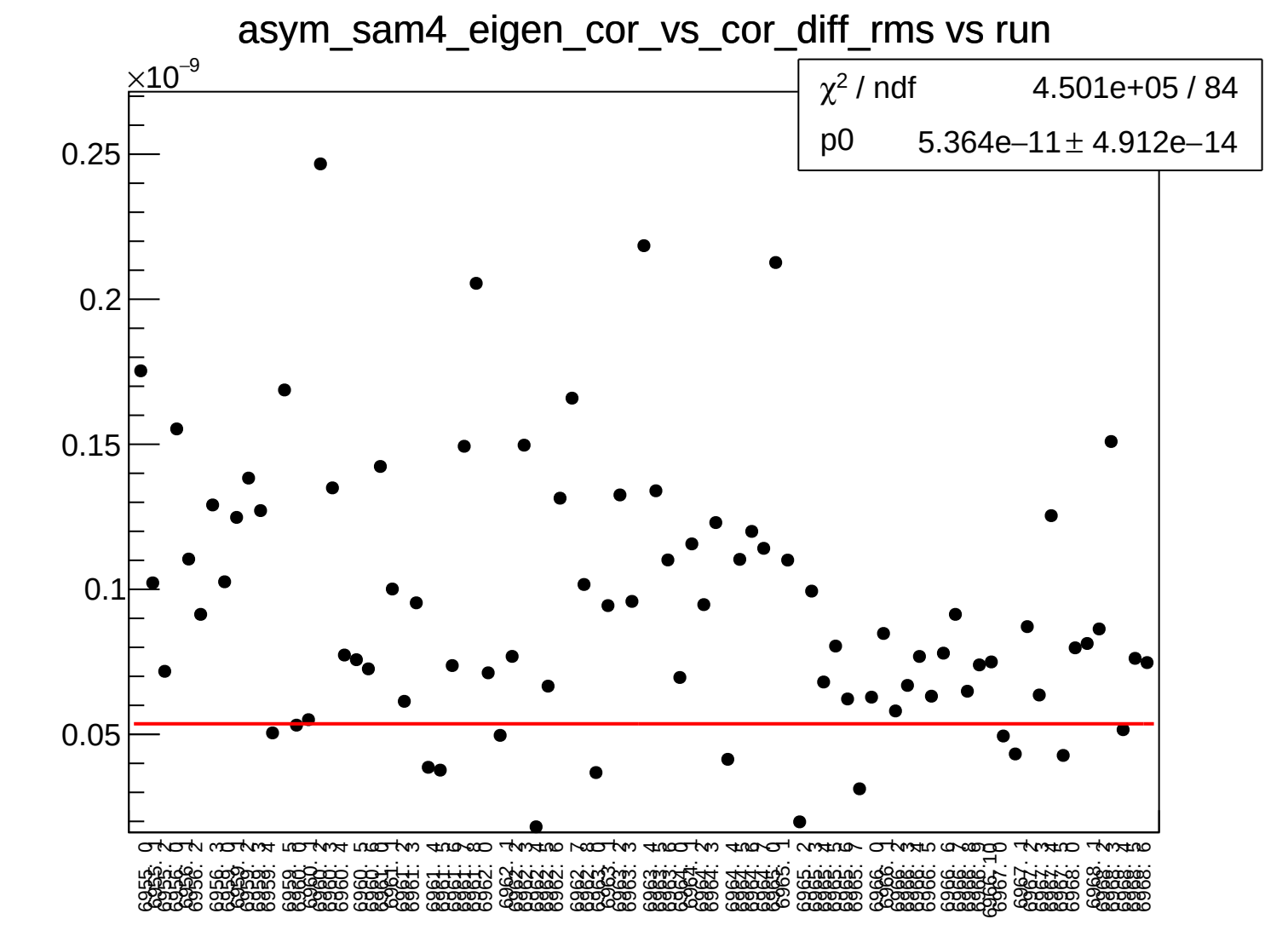

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.92 / 84
p0 0.05676 ± 0.129
pull
Entries 85
Mean 406.3
Std Dev 0

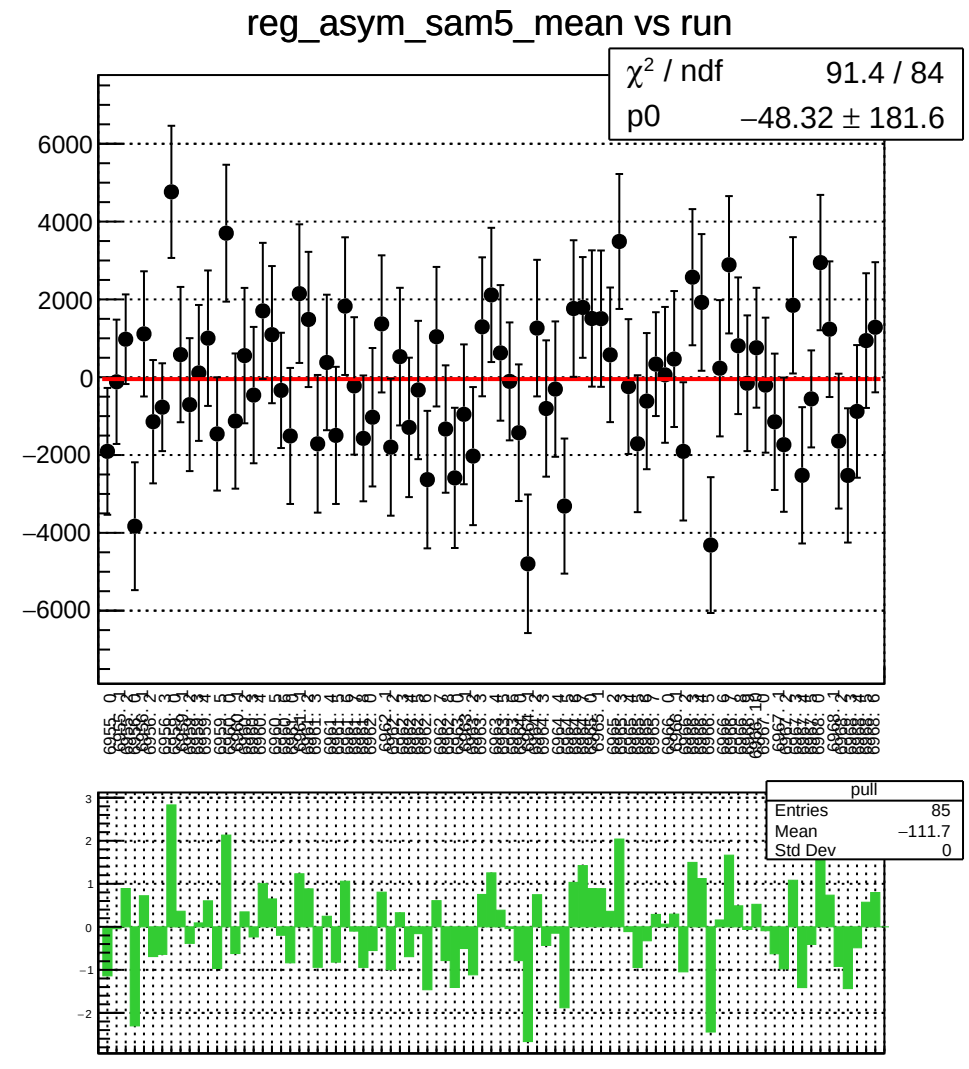

pull1D
Entries 85
Mean 0.02133
Std Dev 0.9754

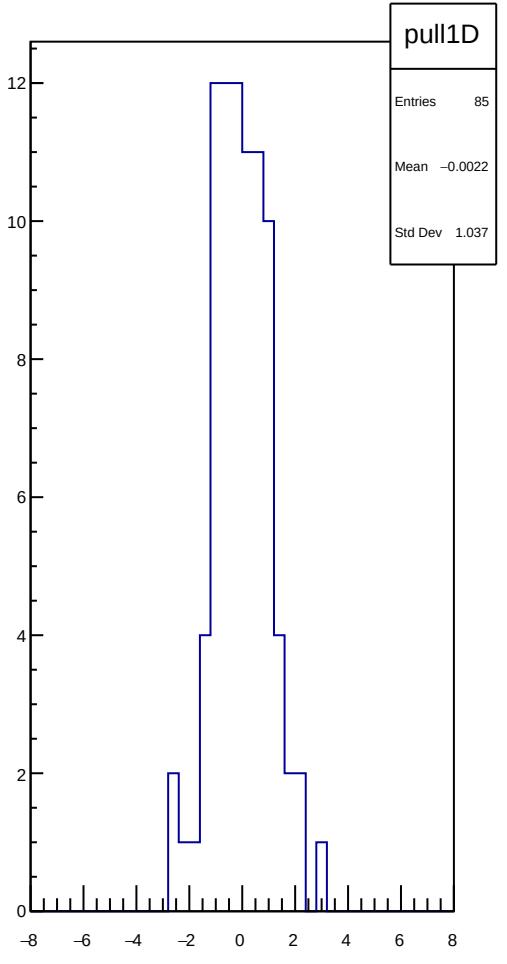

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4071 / 84
p0 116.8 ± 0.09125
140
135
130
125
120
115
110
105
100

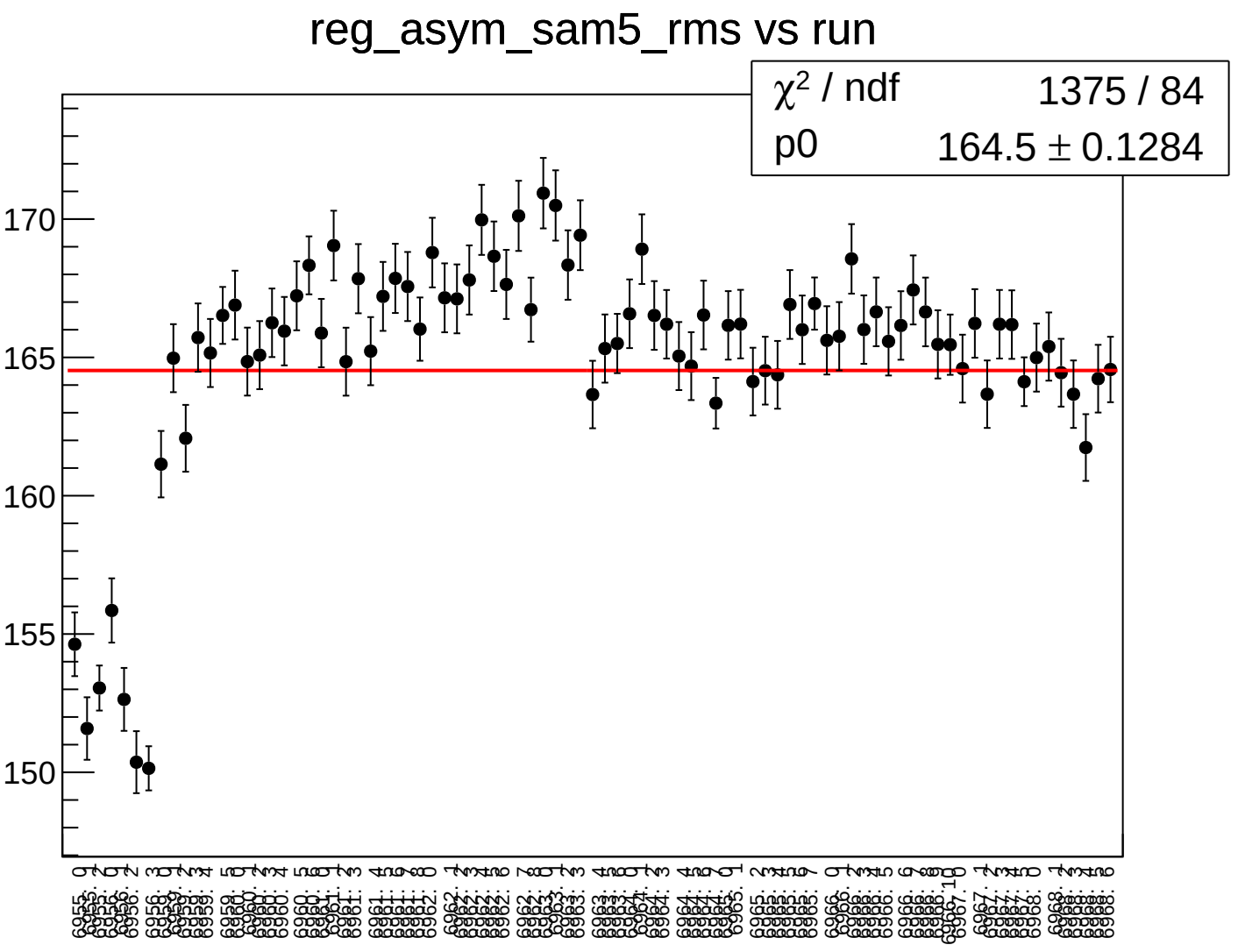

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.51 / 84
p0 1.617e−14 ± 6.946e−14
pull
Entries 85
Mean 31.22
Std Dev 13.81

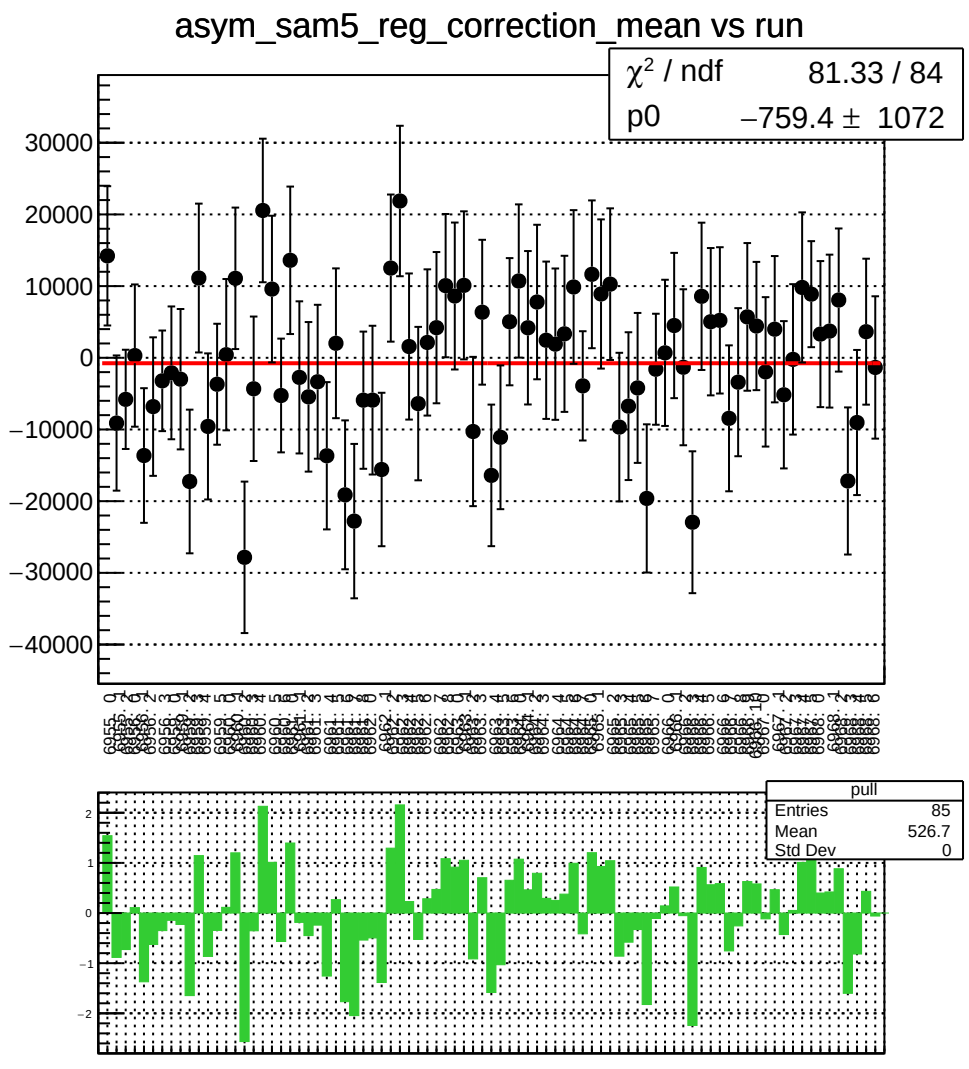

pull1D
Entries 85
Mean 0.1234
Std Dev 0.9531

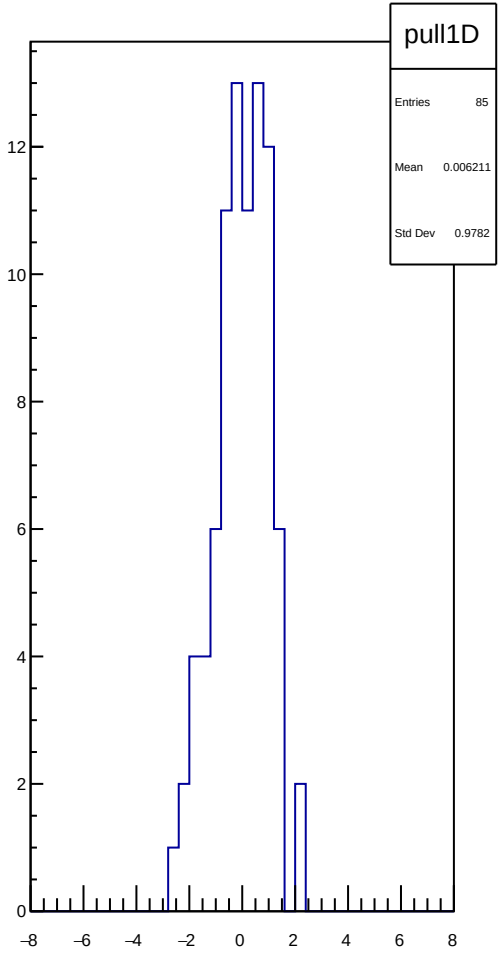

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.501e+05 / 84
p0 5.364e−11 ± 4.912e−14
0.25
0.2
0.15
0.1
0.05

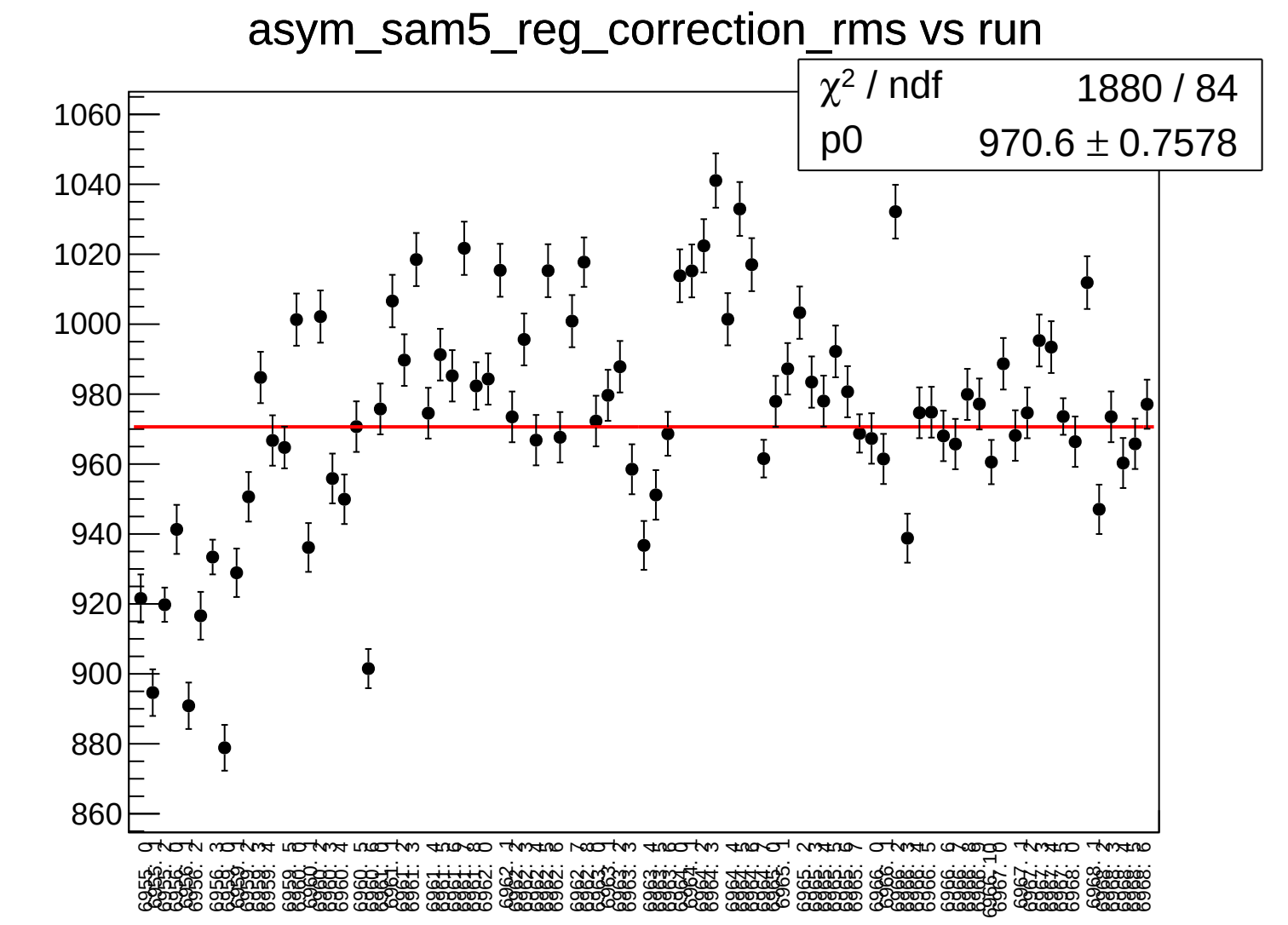

reg_asym_sam5_mean vs run
χ² / ndf 91.4 / 84
p0 −48.32 ± 181.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −111.7
Std Dev 0
3
2
1
0
−1
−2

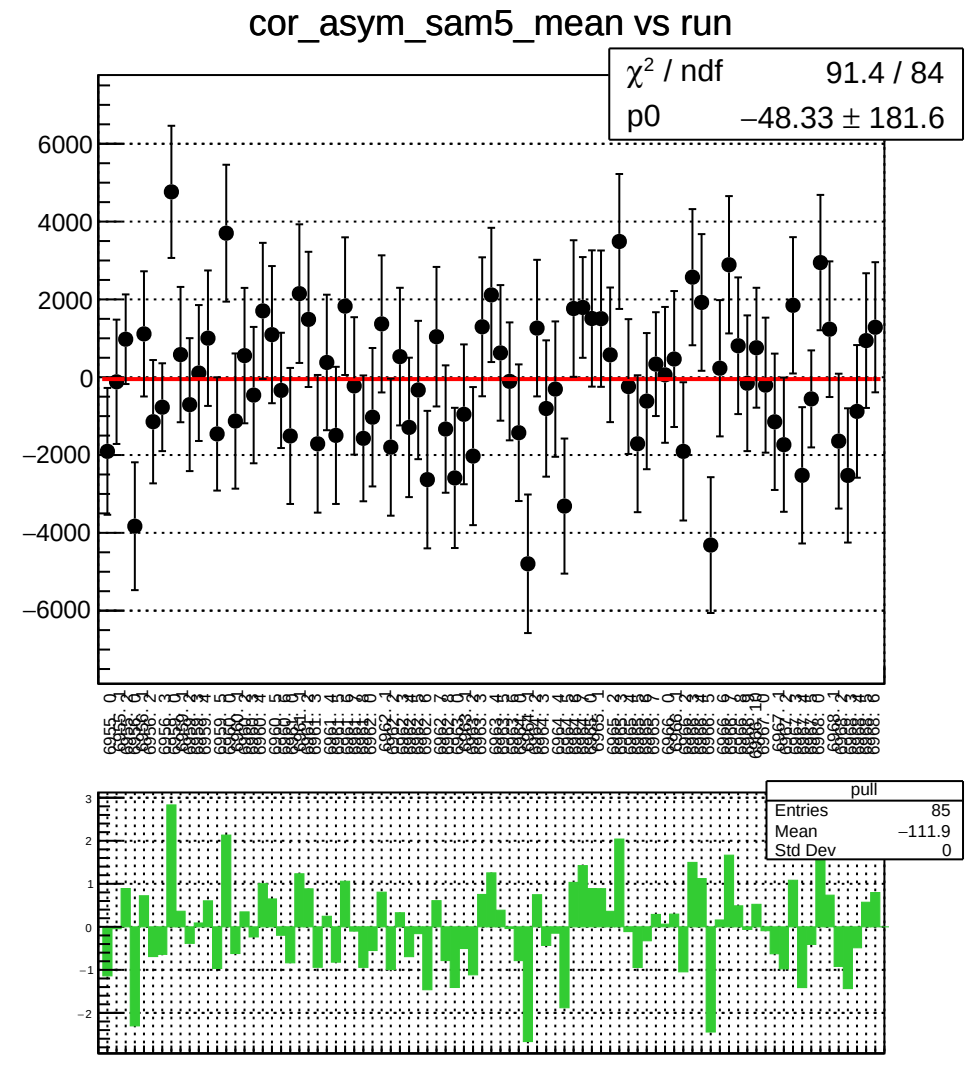

pull1D
Entries 85
Mean −0.0022
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

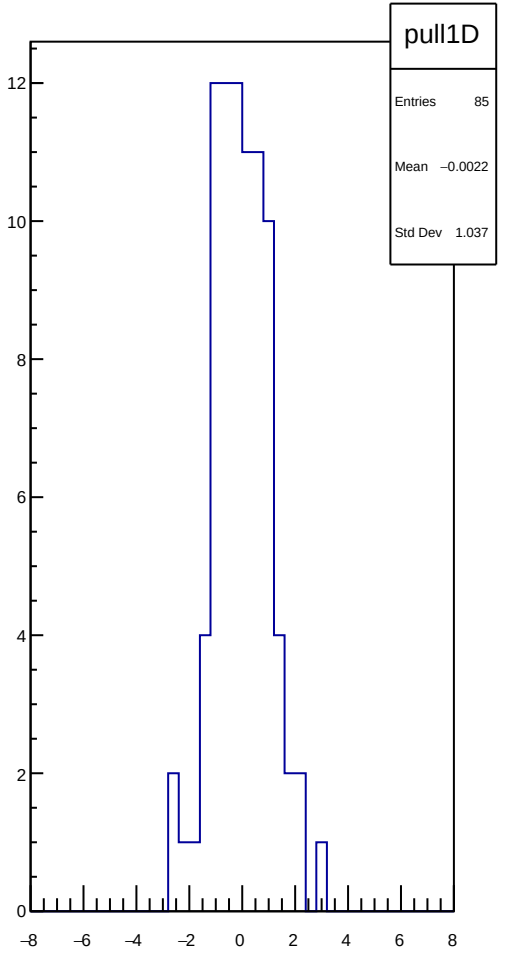

reg_asym_sam5_rms vs run
χ² / ndf 1375 / 84
p0 164.5 ± 0.1284
170
165
160
155
150

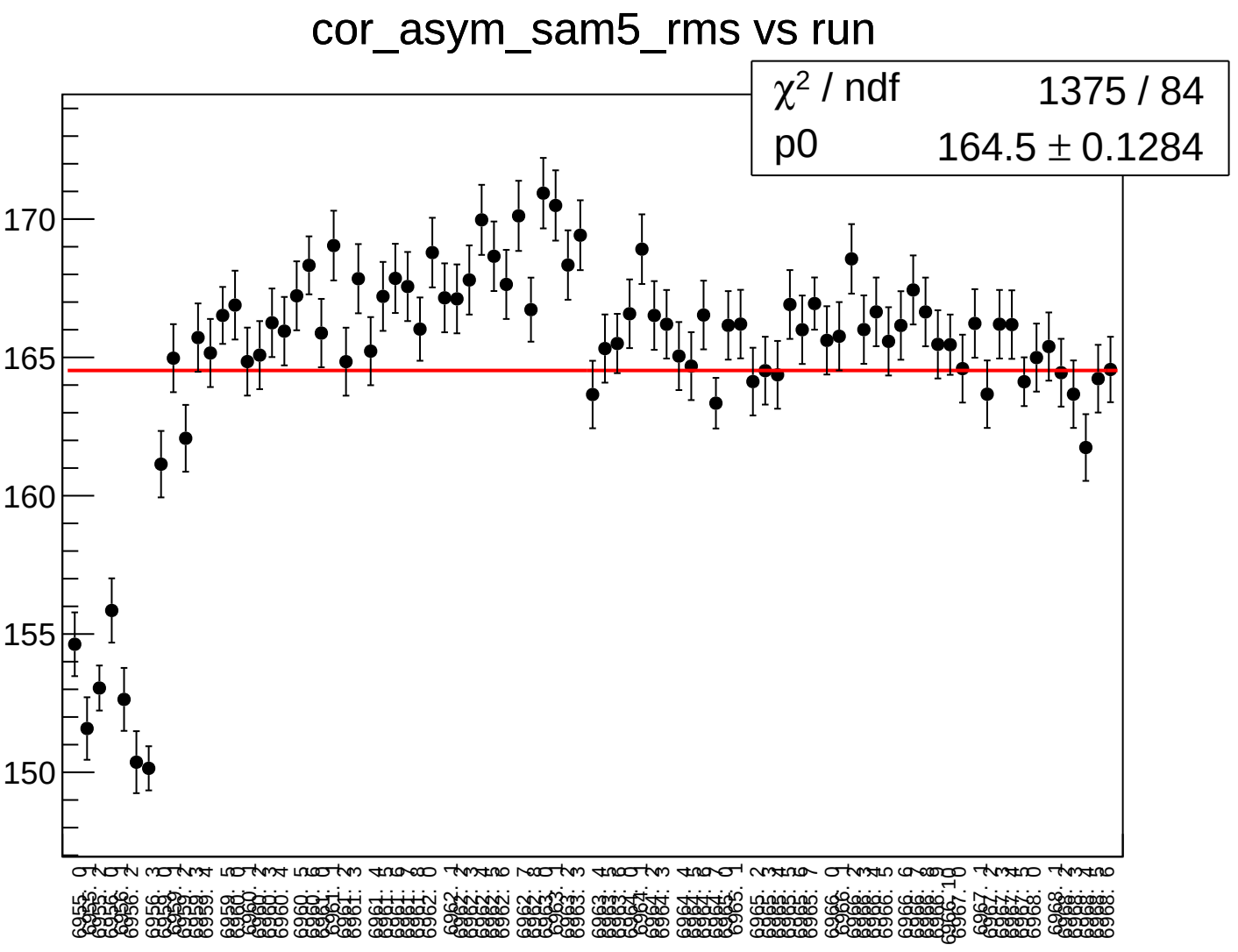

asym_sam5_reg_correction_mean vs run
χ² / ndf 81.33 / 84
p0 −759.4 ± 1072
pull
Entries 85
Mean 526.7
Std Dev 0

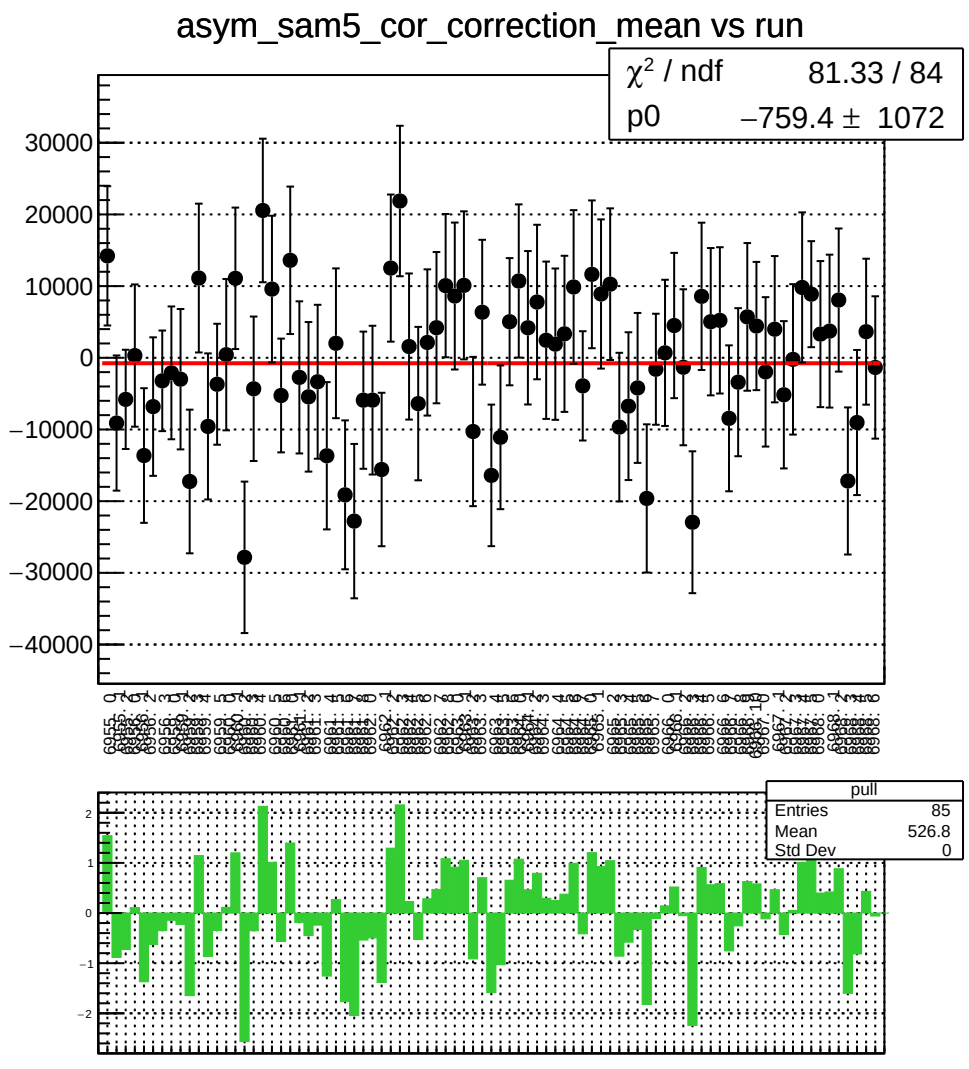

pull1D
Entries 85
Mean 0.006211
Std Dev 0.9782

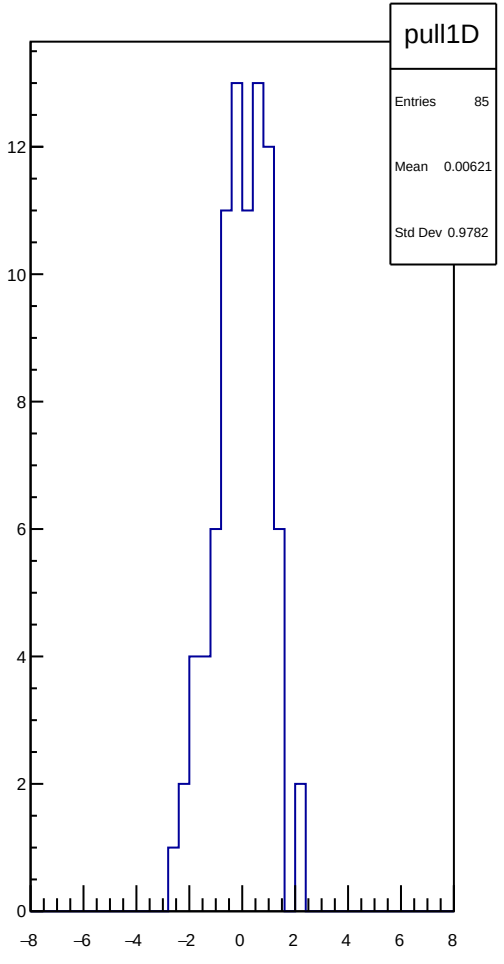

asym_sam5_reg_correction_rms vs run
χ² / ndf 1880 / 84
p0 970.6 ± 0.7578
1060
1040
1020
1000
980
960
940
920
900
880
860

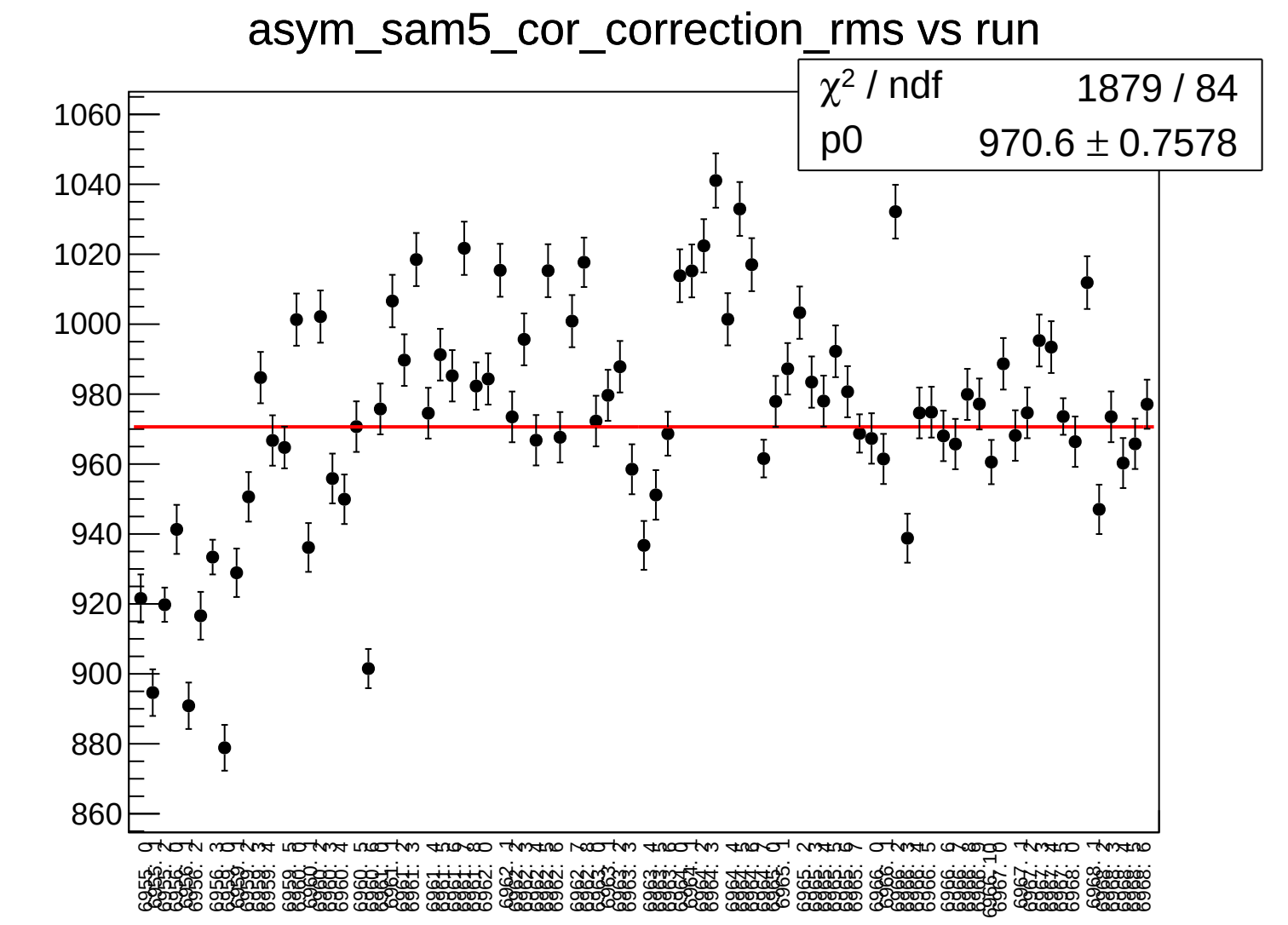

cor_asym_sam5_mean vs run
χ² / ndf 91.4 / 84
p0 −48.33 ± 181.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −111.9
Std Dev 0
3
2
1
0
−1
−2

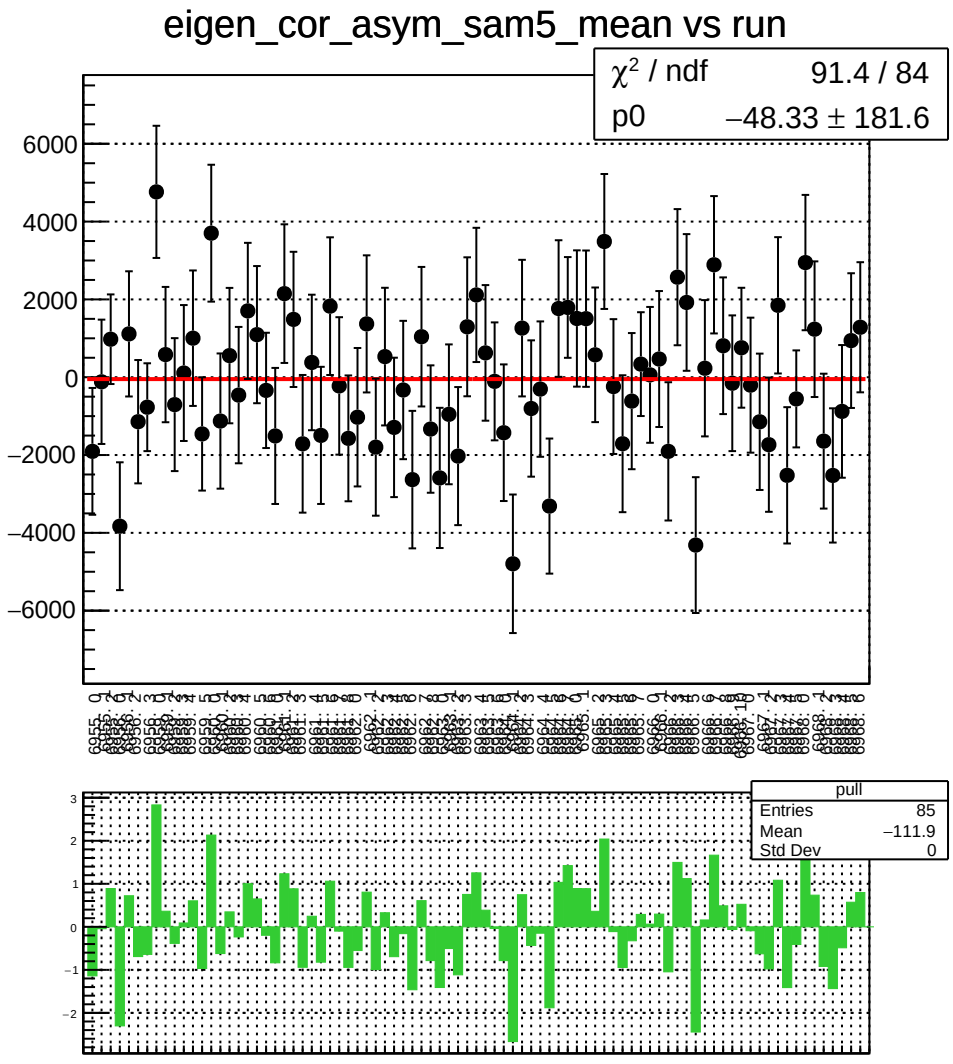

pull1D
Entries 85
Mean −0.0022
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

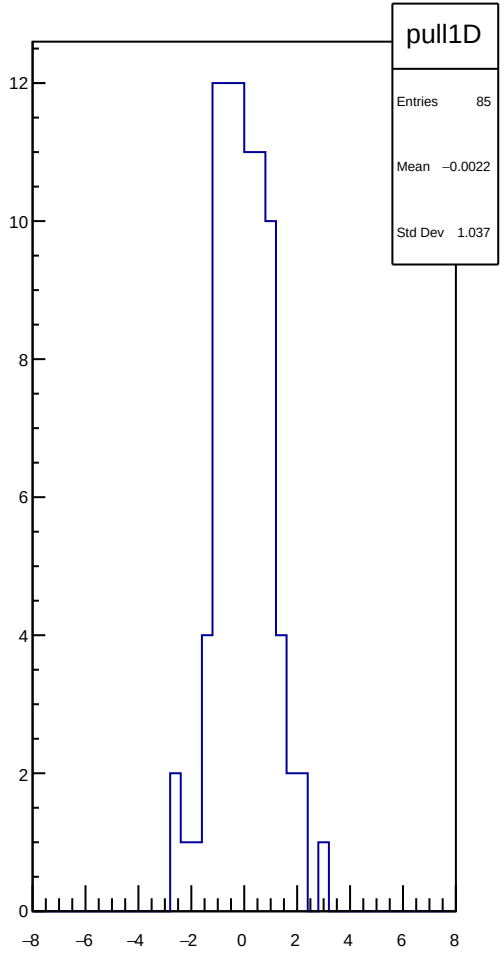

cor_asym_sam5_rms vs run
χ² / ndf 1375 / 84
p0 164.5 ± 0.1284
170
165
160
155
150

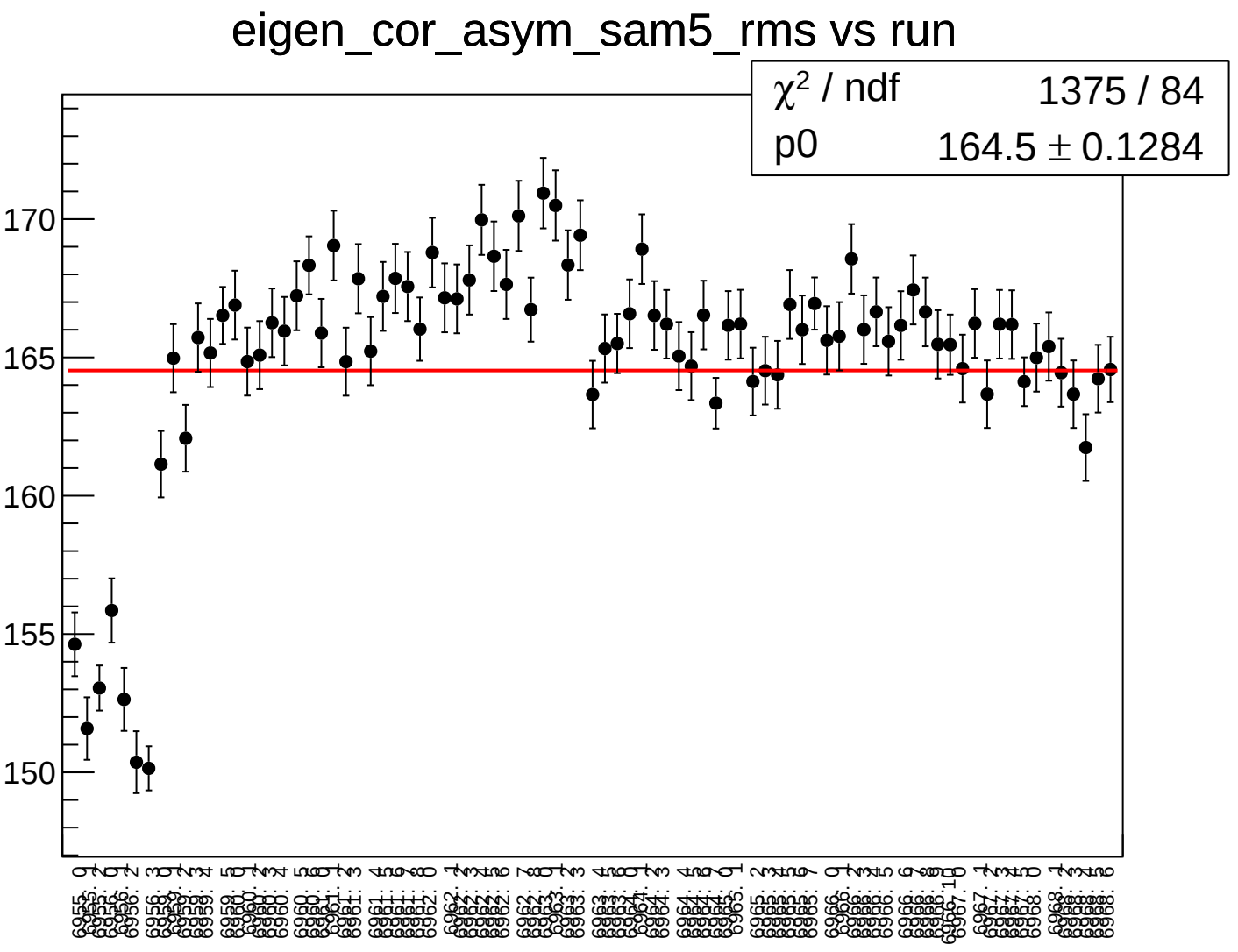

asym_sam5_cor_correction_mean vs run
χ² / ndf 81.33 / 84
p0 −759.4 ± 1072
pull
Entries 85
Mean 526.8
Std Dev 0

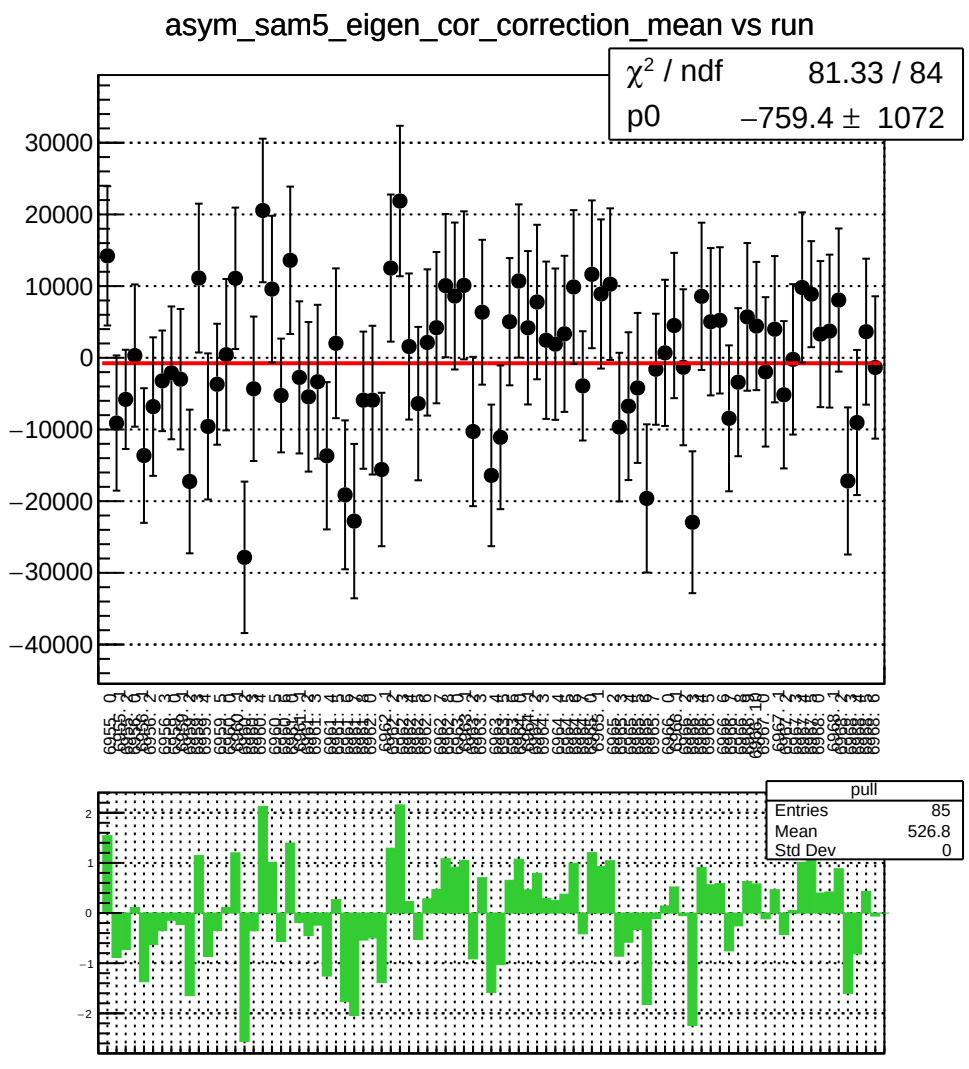

pull1D
Entries 85
Mean 0.00621
Std Dev 0.9782

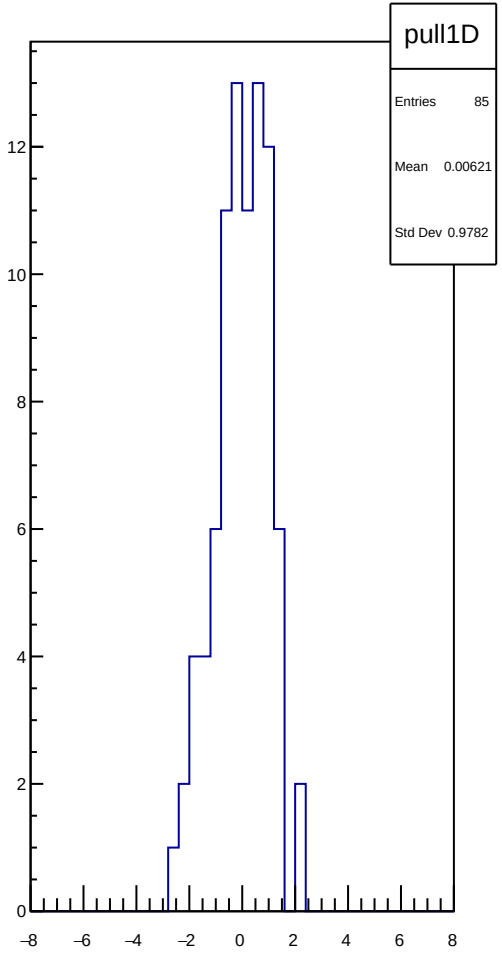

asym_sam5_cor_correction_rms vs run
χ² / ndf 1879 / 84
p0 970.6 ± 0.7578
1060
1040
1020
1000
980
960
940
920
900
880
860

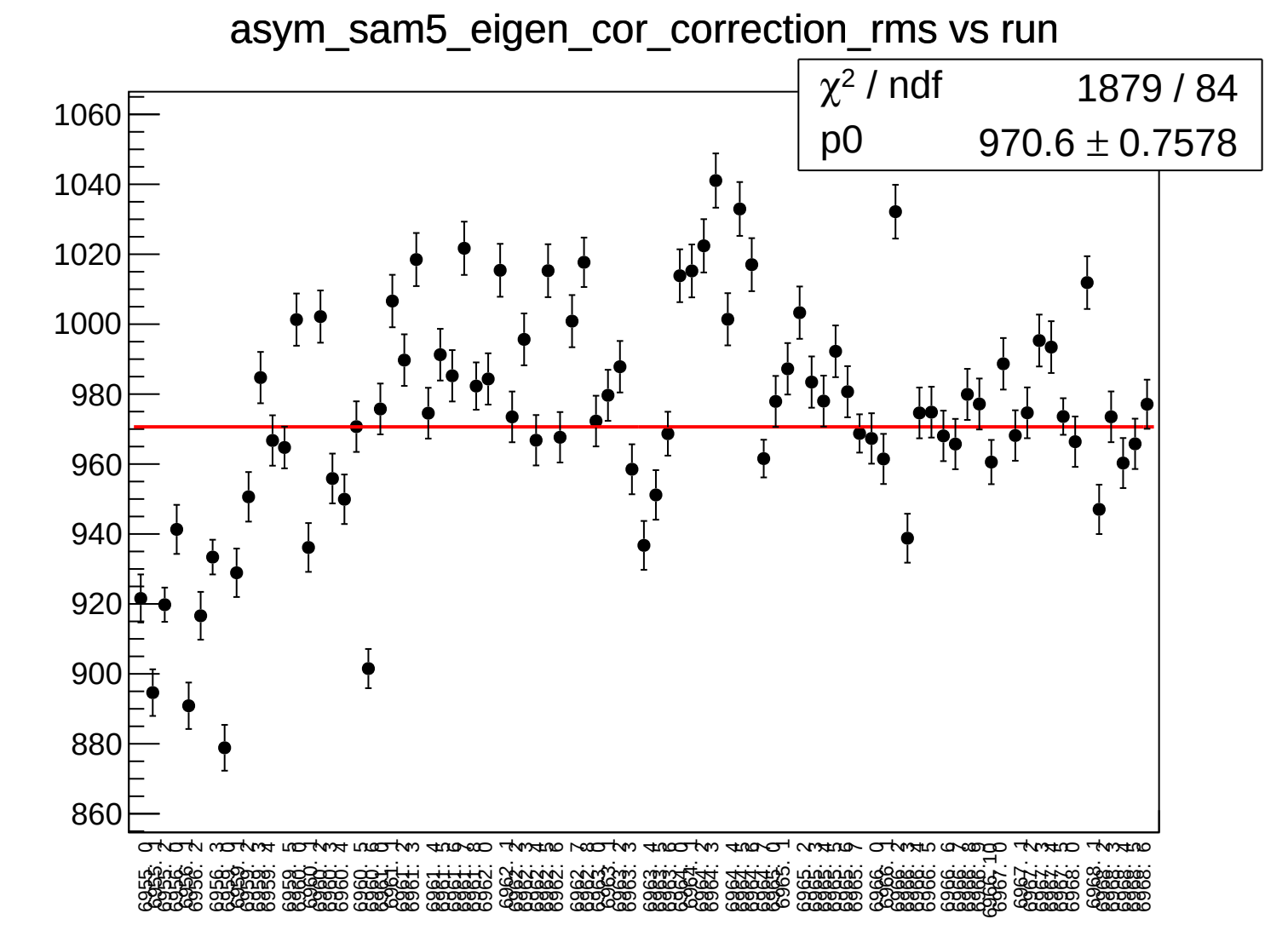

eigen_cor_asym_sam5_mean vs run
χ² / ndf 91.4 / 84
p0 −48.33 ± 181.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −111.9
Std Dev 0
3
2
1
0
−1
−2

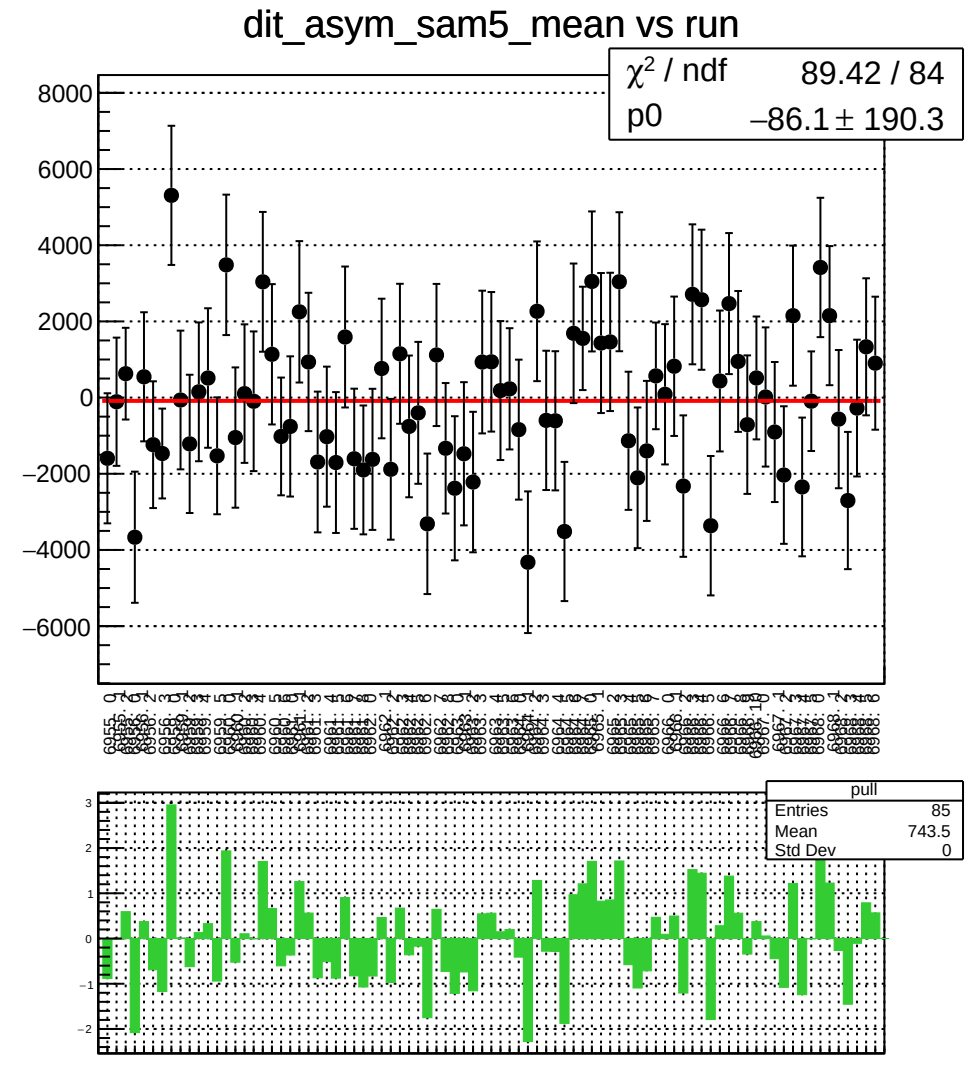

pull1D
Entries 85
Mean −0.0022
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

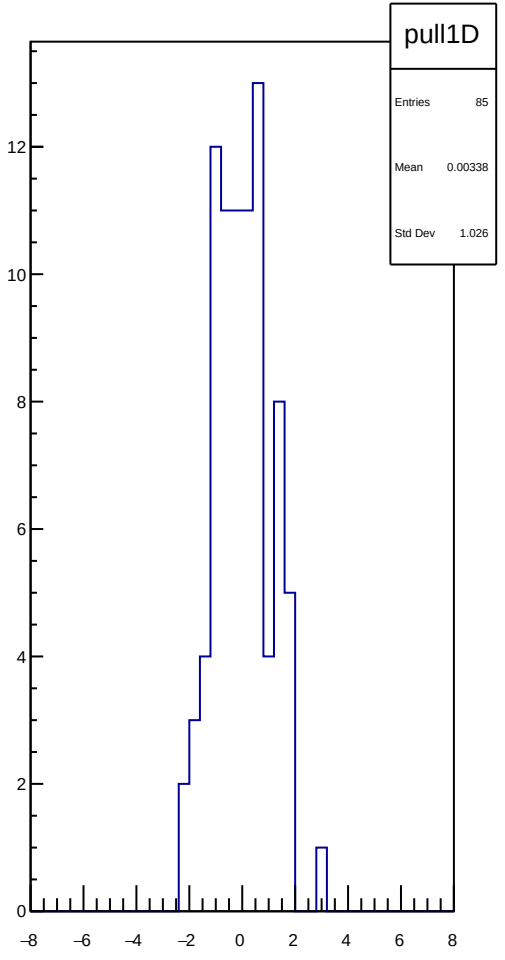

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1375 / 84
p0 164.5 ± 0.1284
170
165
160
155
150

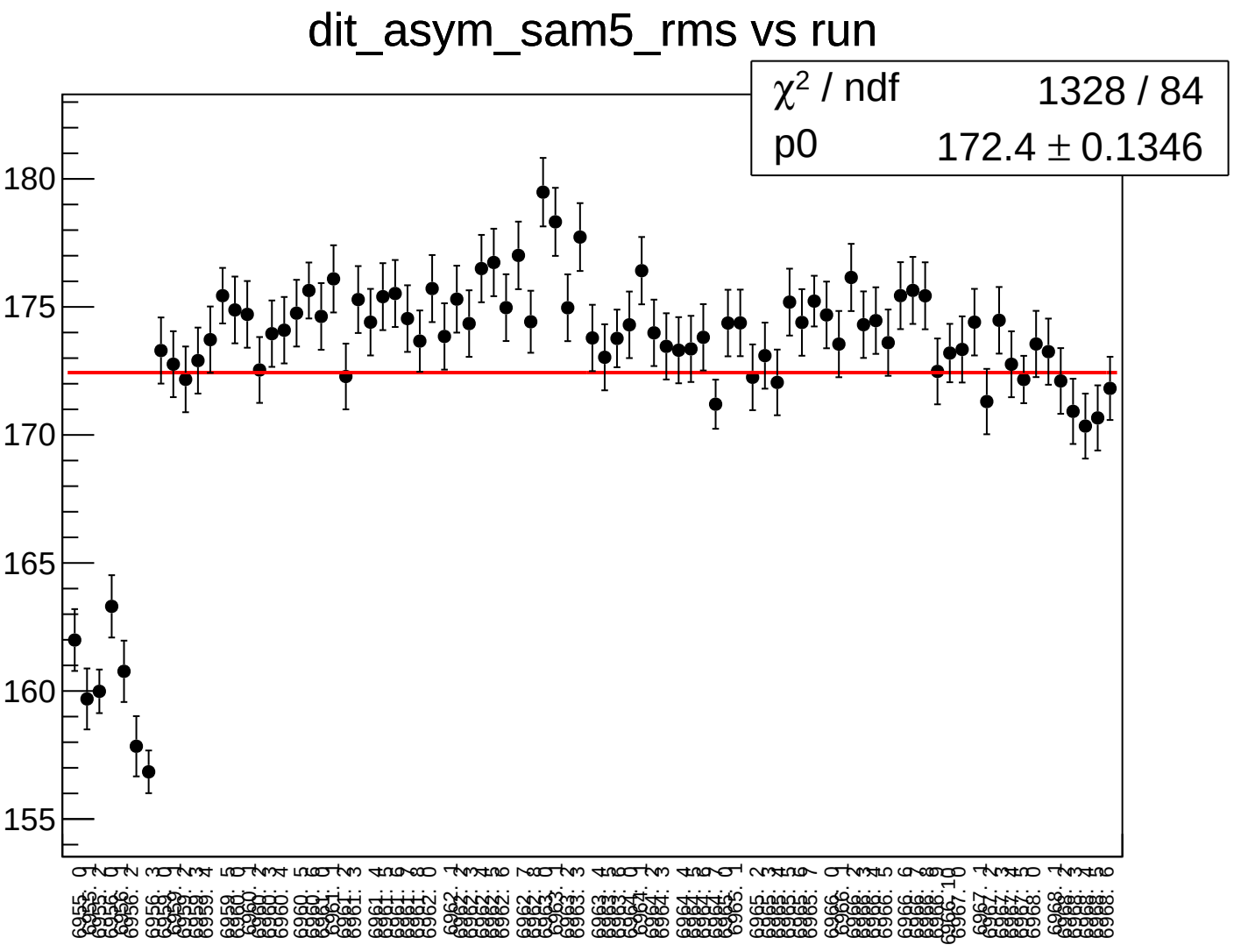

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 81.33 / 84
p0 −759.4 ± 1072
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 526.8
Std Dev 0
2
1
0
−1
−2

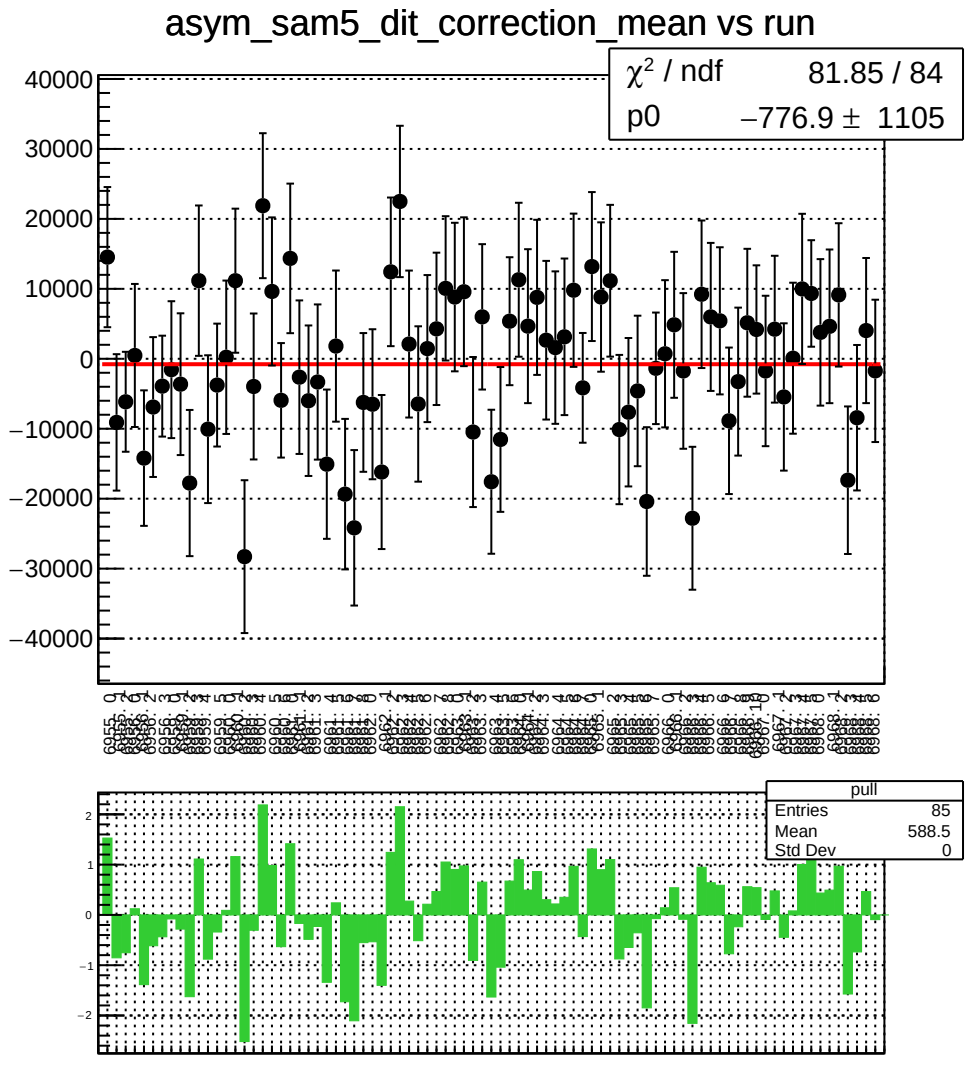

pull1D
Entries 85
Mean 0.00621
Std Dev 0.9782
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

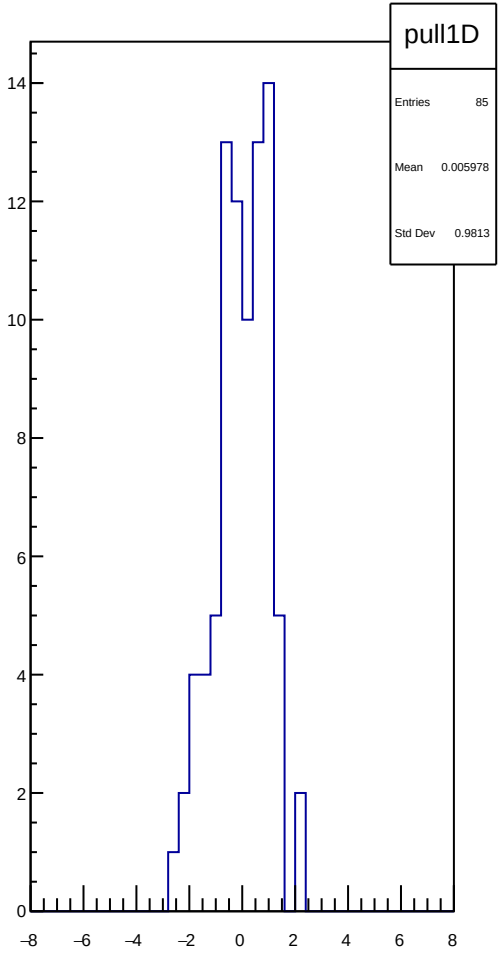

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1879 / 84
p0 970.6 ± 0.7578
1060
1040
1020
1000
980
960
940
920
900
880
860

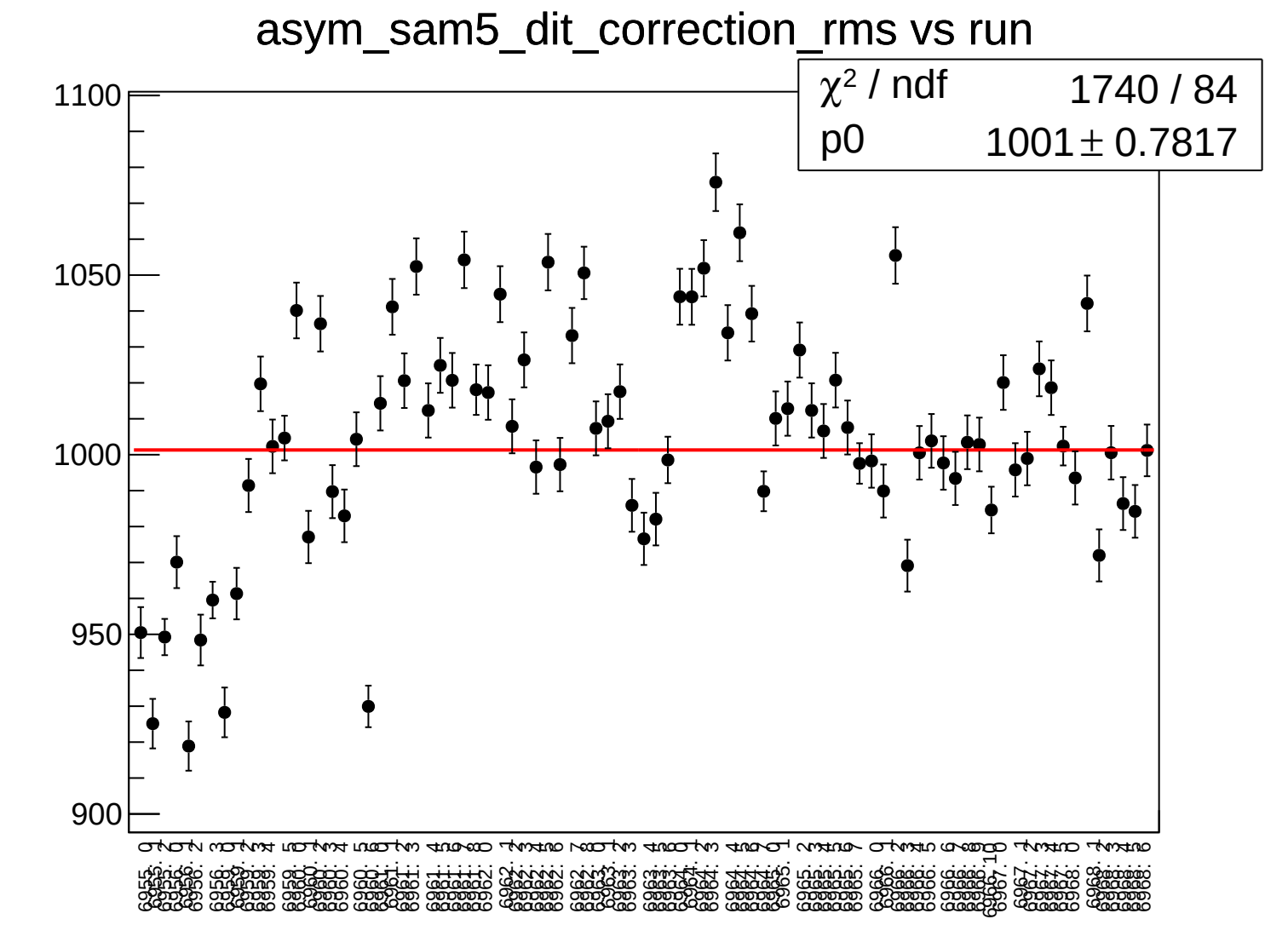

dit_asym_sam5_mean vs run
χ² / ndf 89.42 / 84
p0 −86.1 ± 190.3
pull
Entries 85
Mean 743.5
Std Dev 0

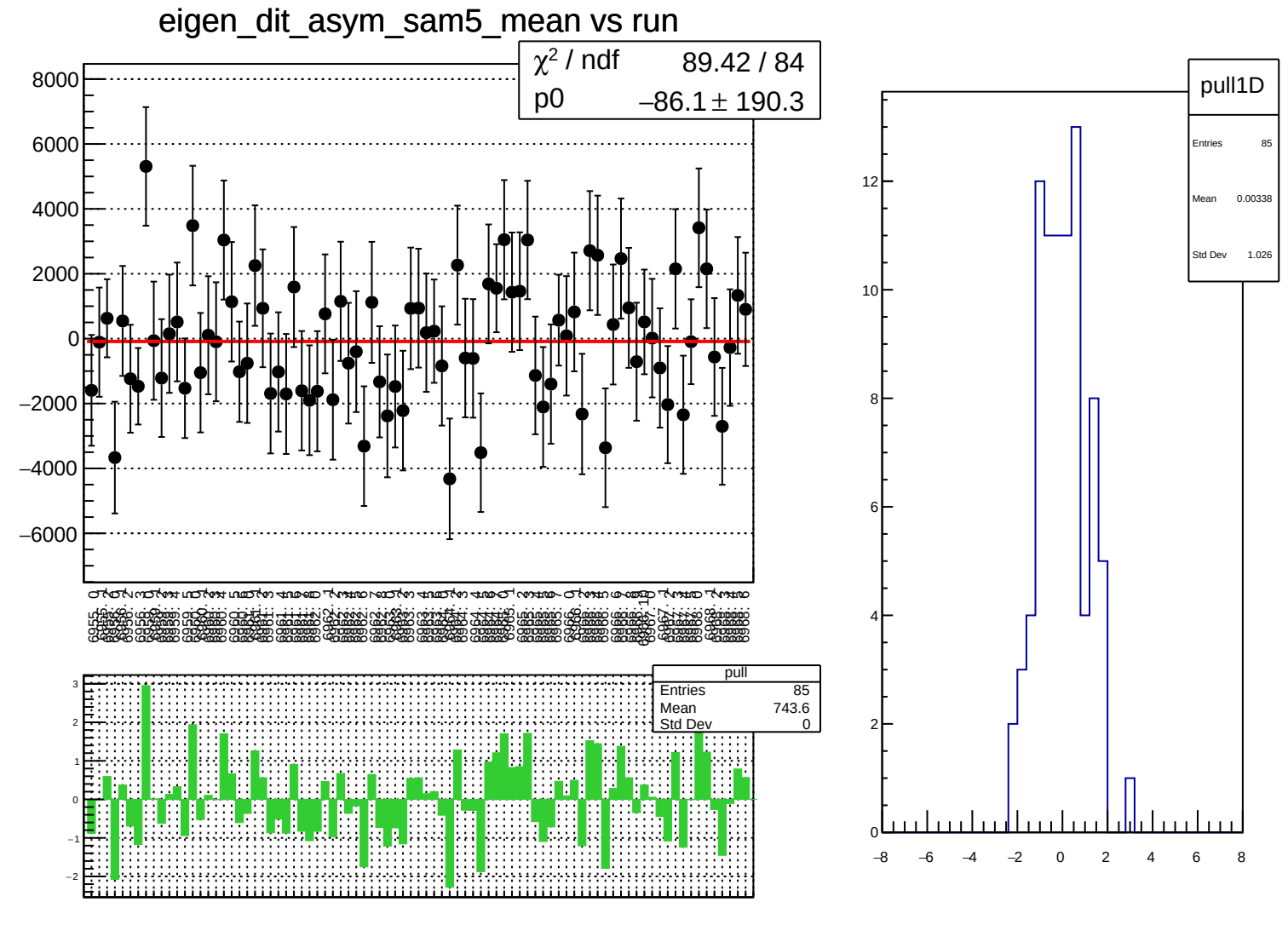

pull1D
Entries 85
Mean 0.00338
Std Dev 1.026

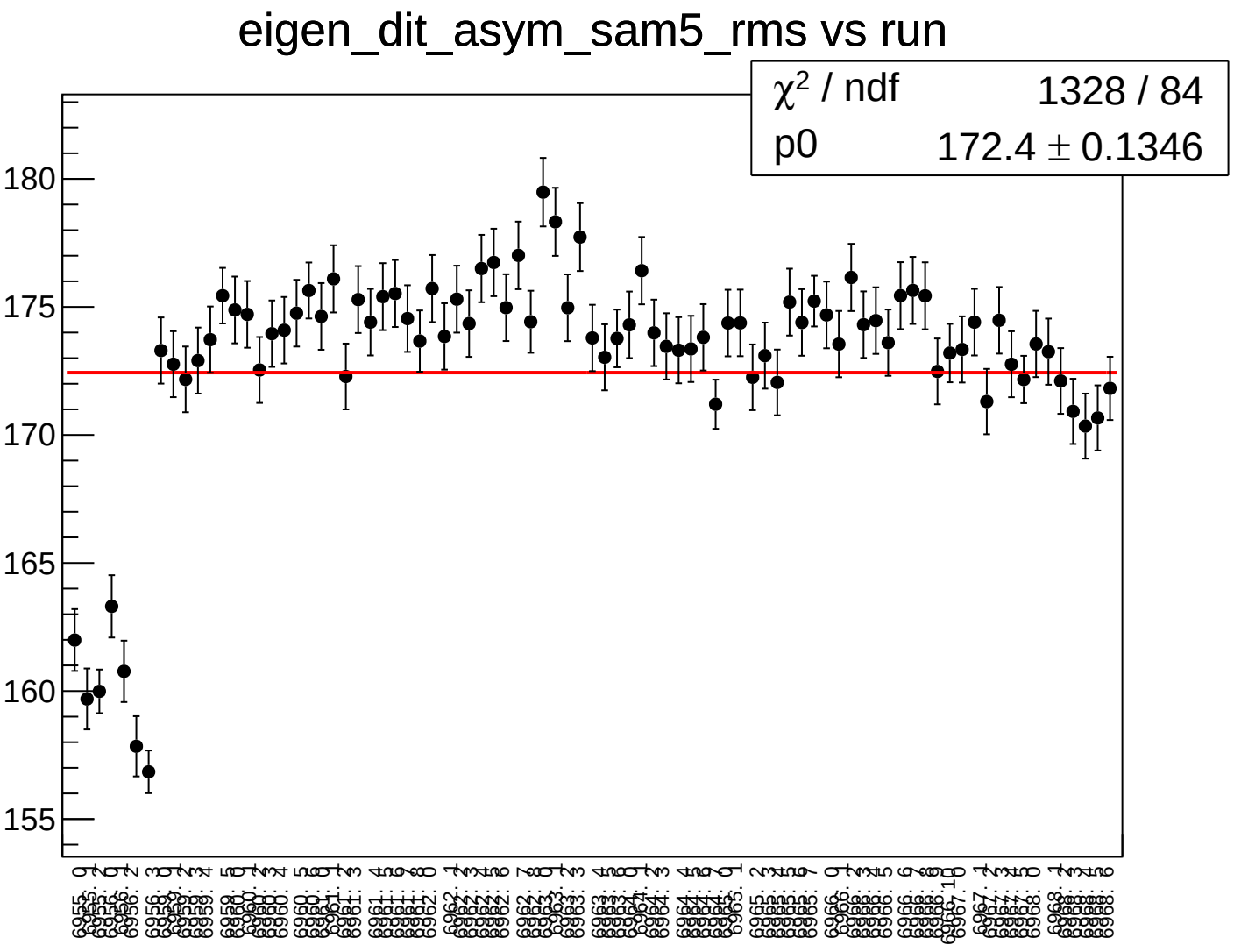

dit_asym_sam5_rms vs run
χ² / ndf 1328 / 84
p0 172.4 ± 0.1346
180
175
170
165
160
155

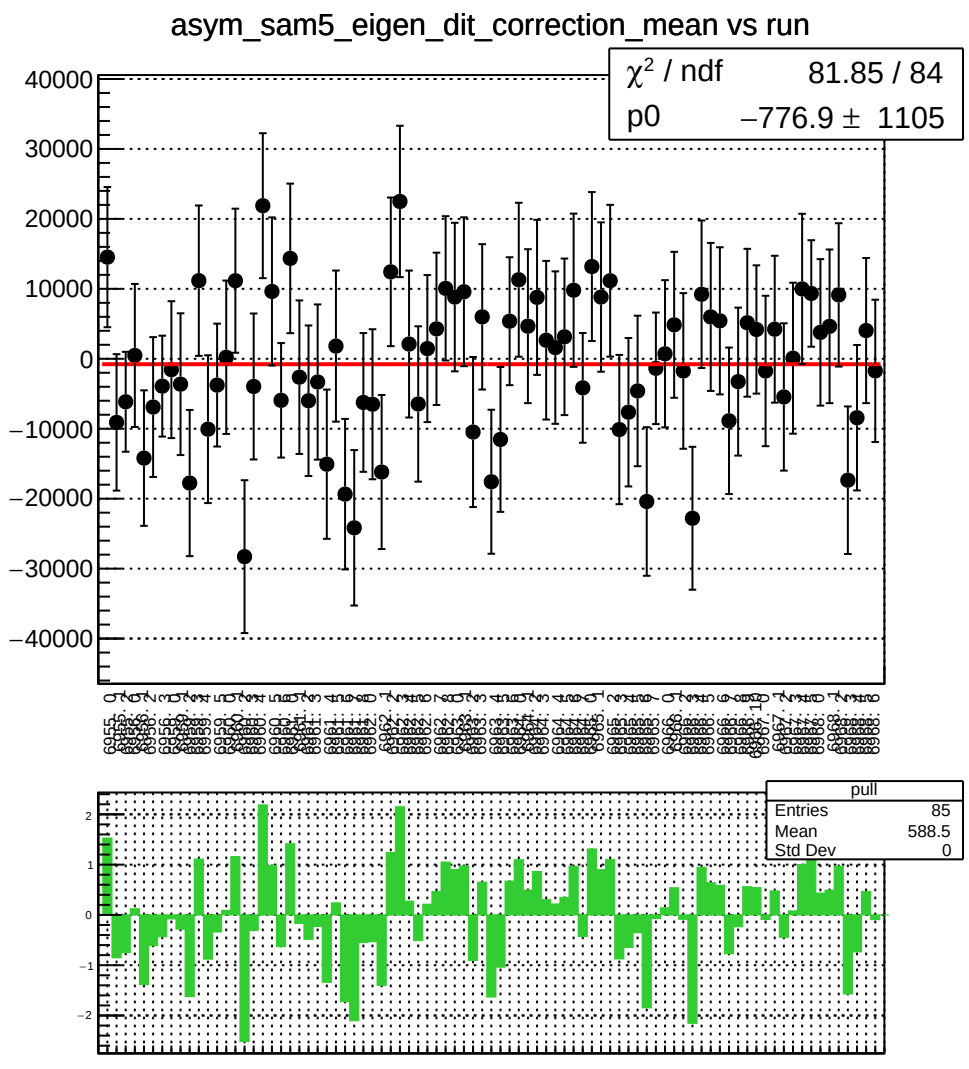

asym_sam5_dit_correction_mean vs run
χ² / ndf 81.85 / 84
p0 −776.9 ± 1105
pull
Entries 85
Mean 588.5
Std Dev 0

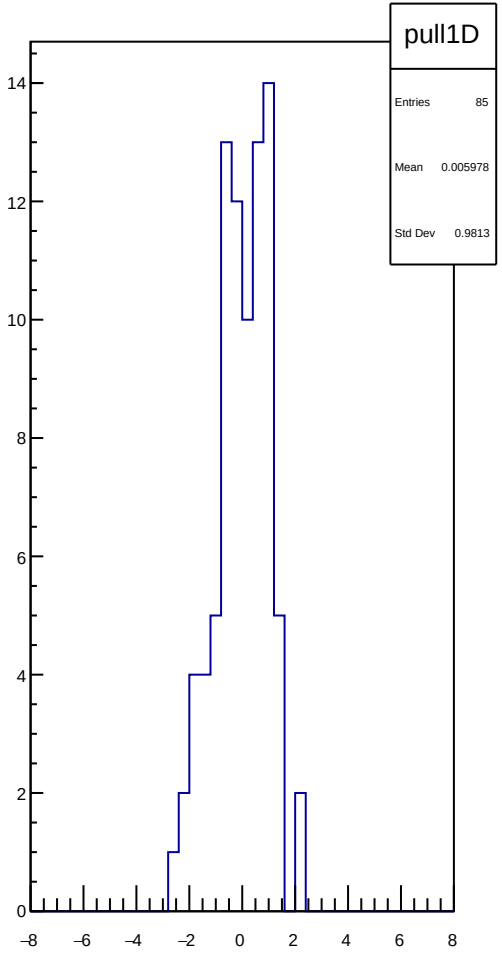

pull1D
Entries 85
Mean 0.005978
Std Dev 0.9813

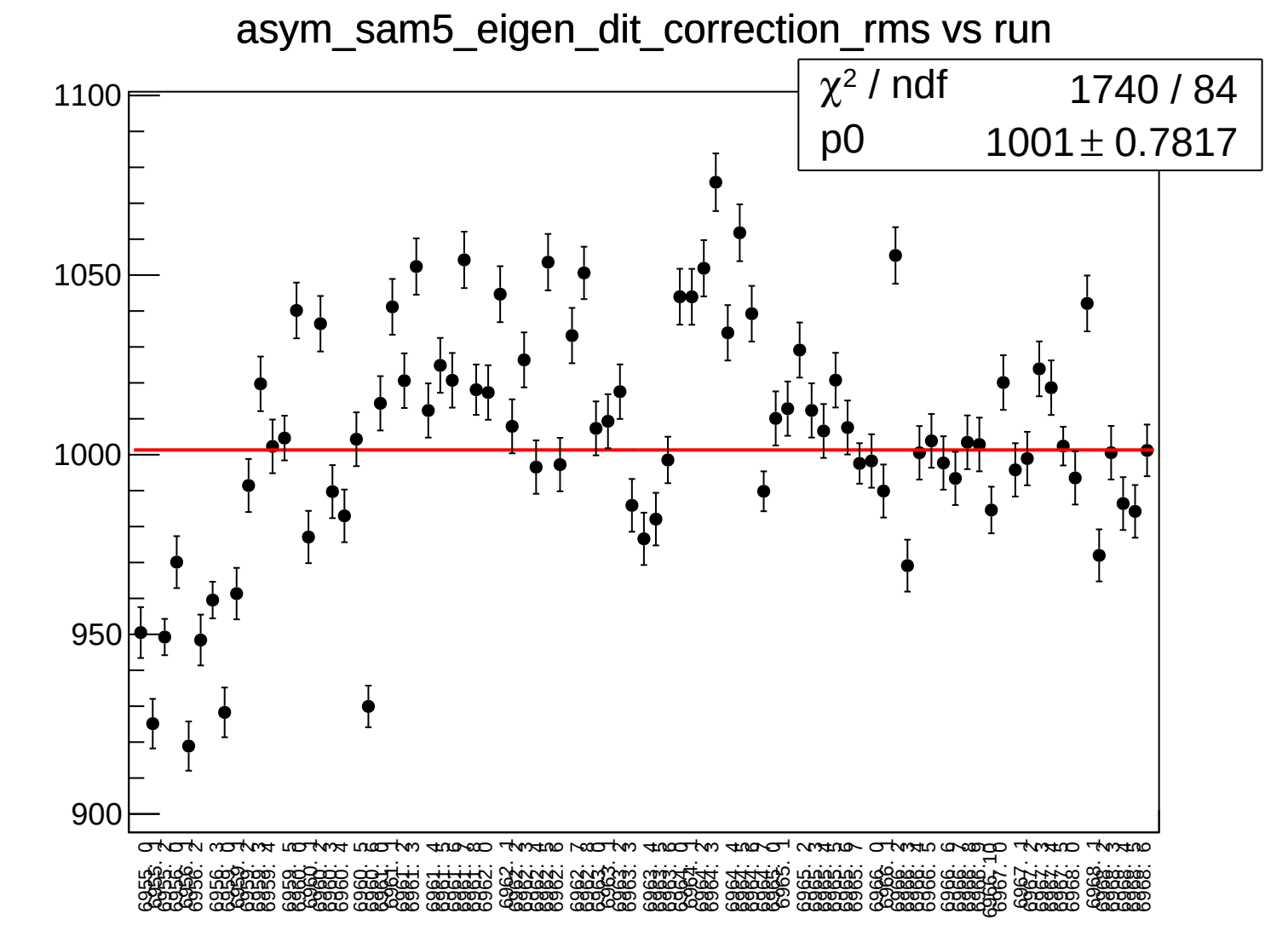

asym_sam5_dit_correction_rms vs run
χ² / ndf 1740 / 84
p0 1001 ± 0.7817
1100
1050
1000
950
900

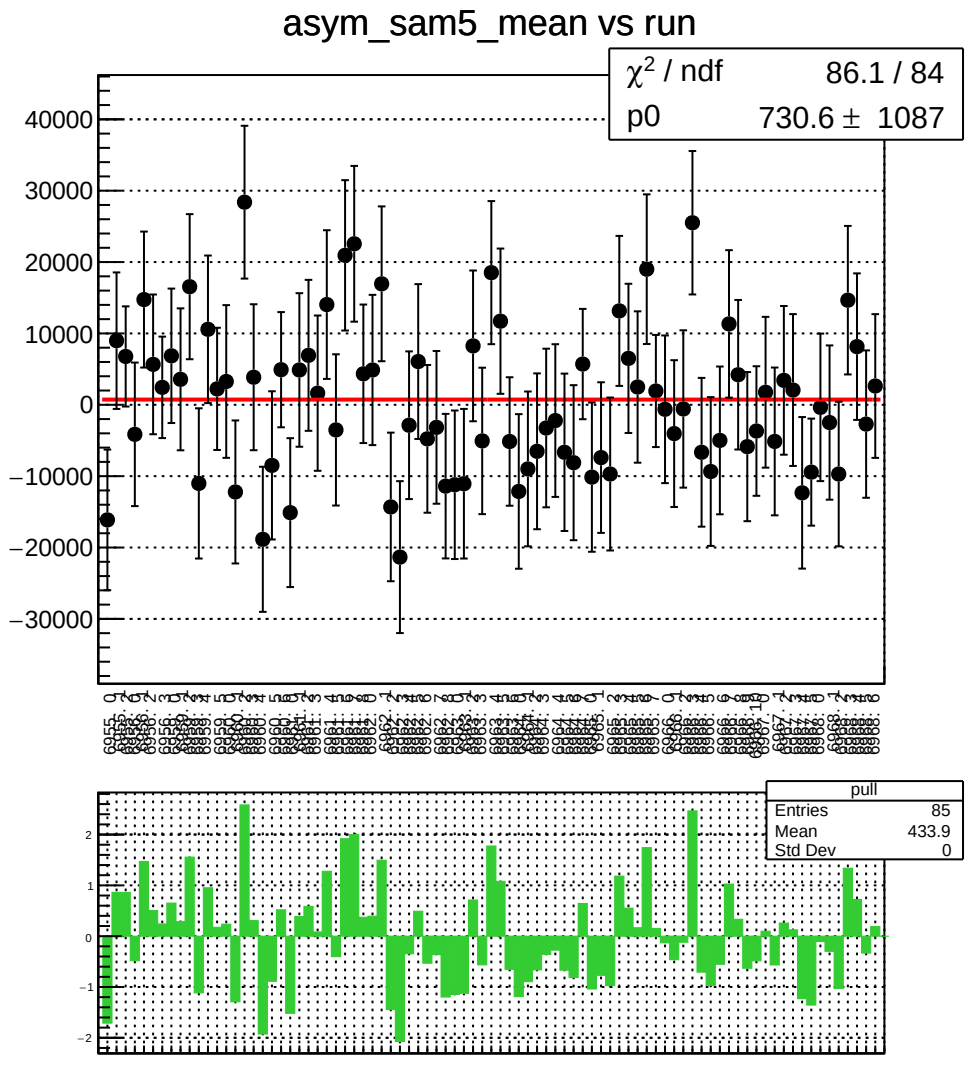

eigen_dit_asym_sam5_mean vs run
χ² / ndf 89.42 / 84
p0 −86.1 ± 190.3
pull
Entries 85
Mean 743.6
Std Dev 0
pull1D
Entries 85
Mean 0.00338
Std Dev 1.026

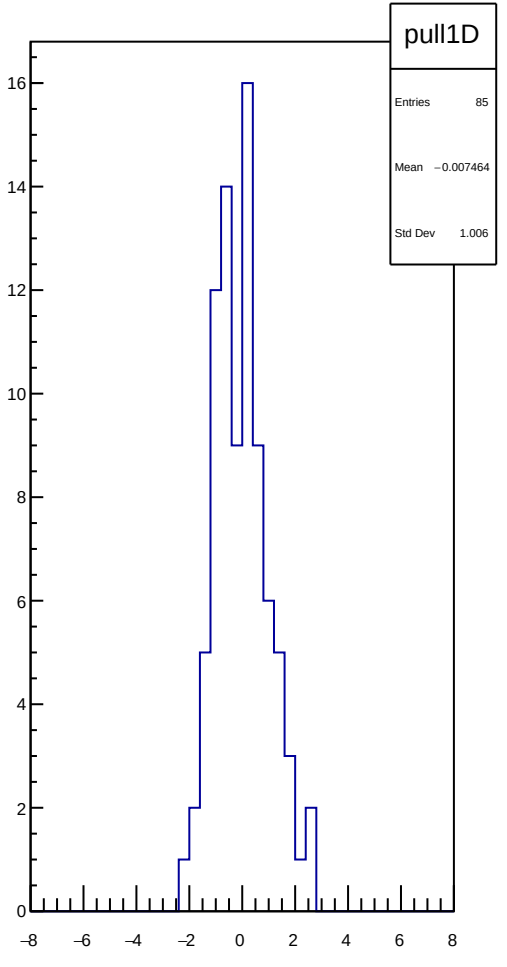

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1328 / 84
p0 172.4 ± 0.1346
180
175
170
165
160
155

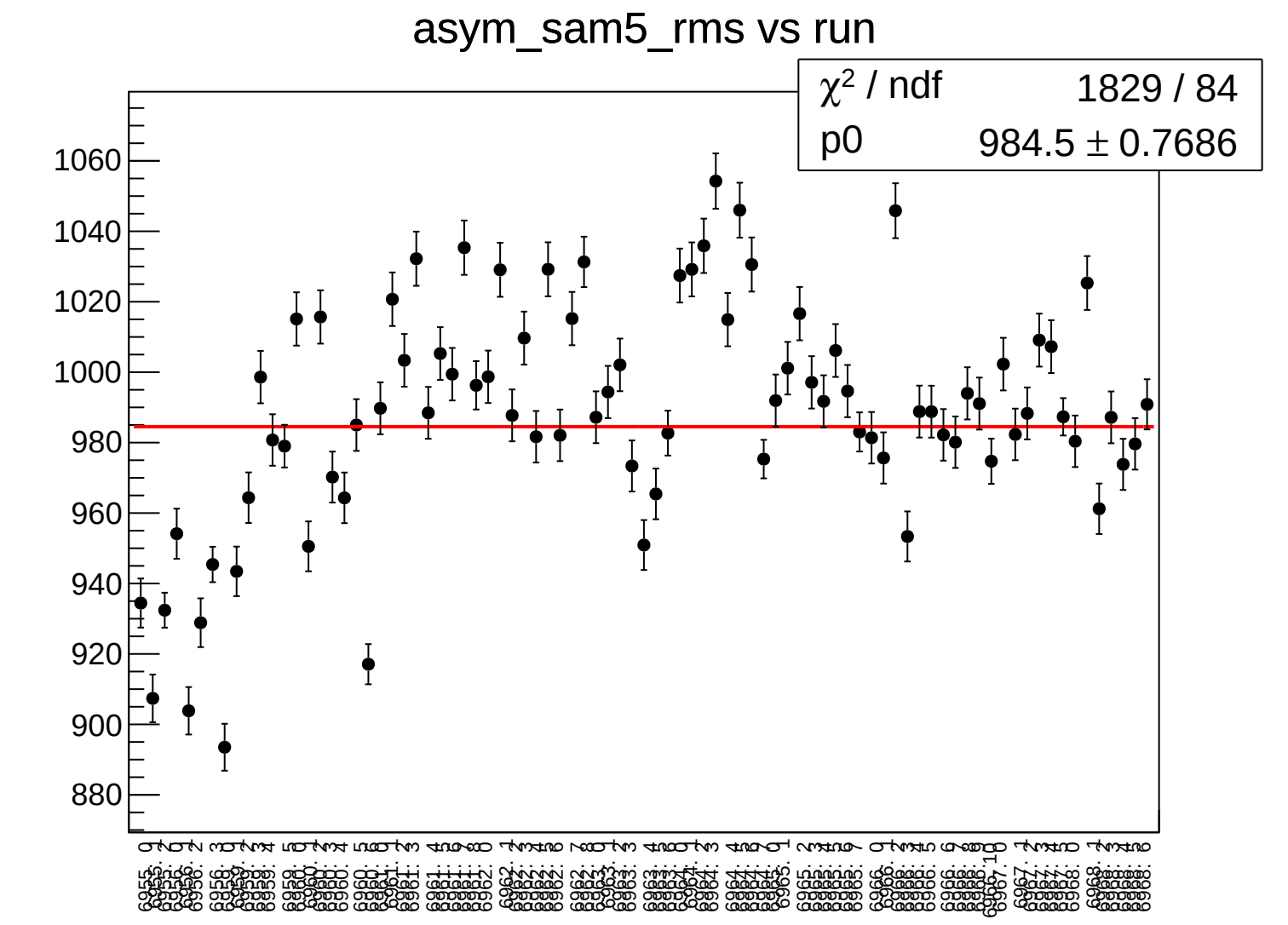

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 81.85 / 84
p0 −776.9 ± 1105
pull
Entries 85
Mean 588.5
Std Dev 0

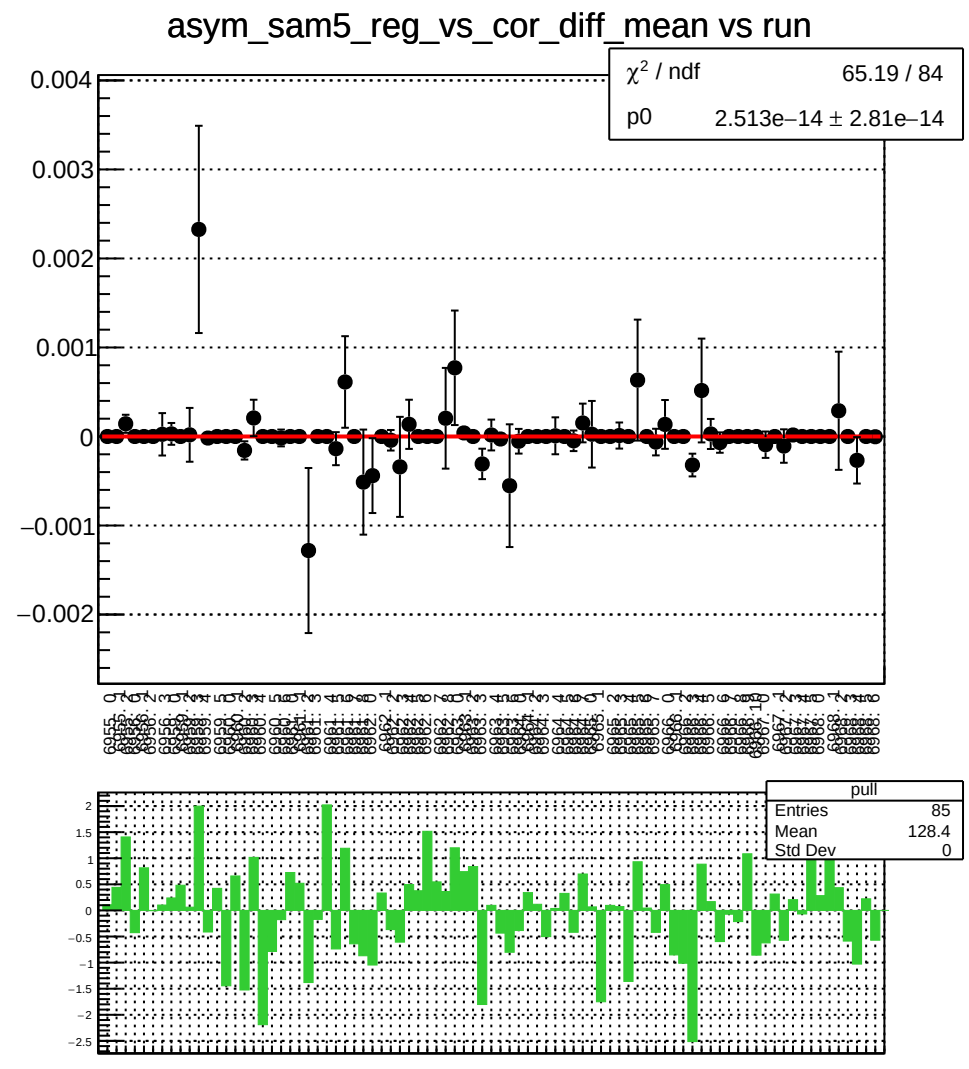

pull1D
Entries 85
Mean 0.005978
Std Dev 0.9813

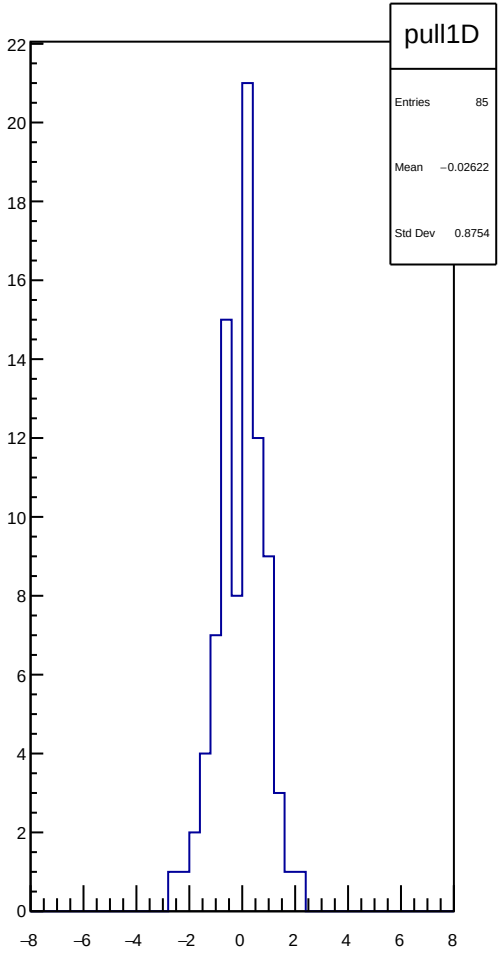

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1740 / 84
p0 1001 ± 0.7817
1100
1050
1000
950
900

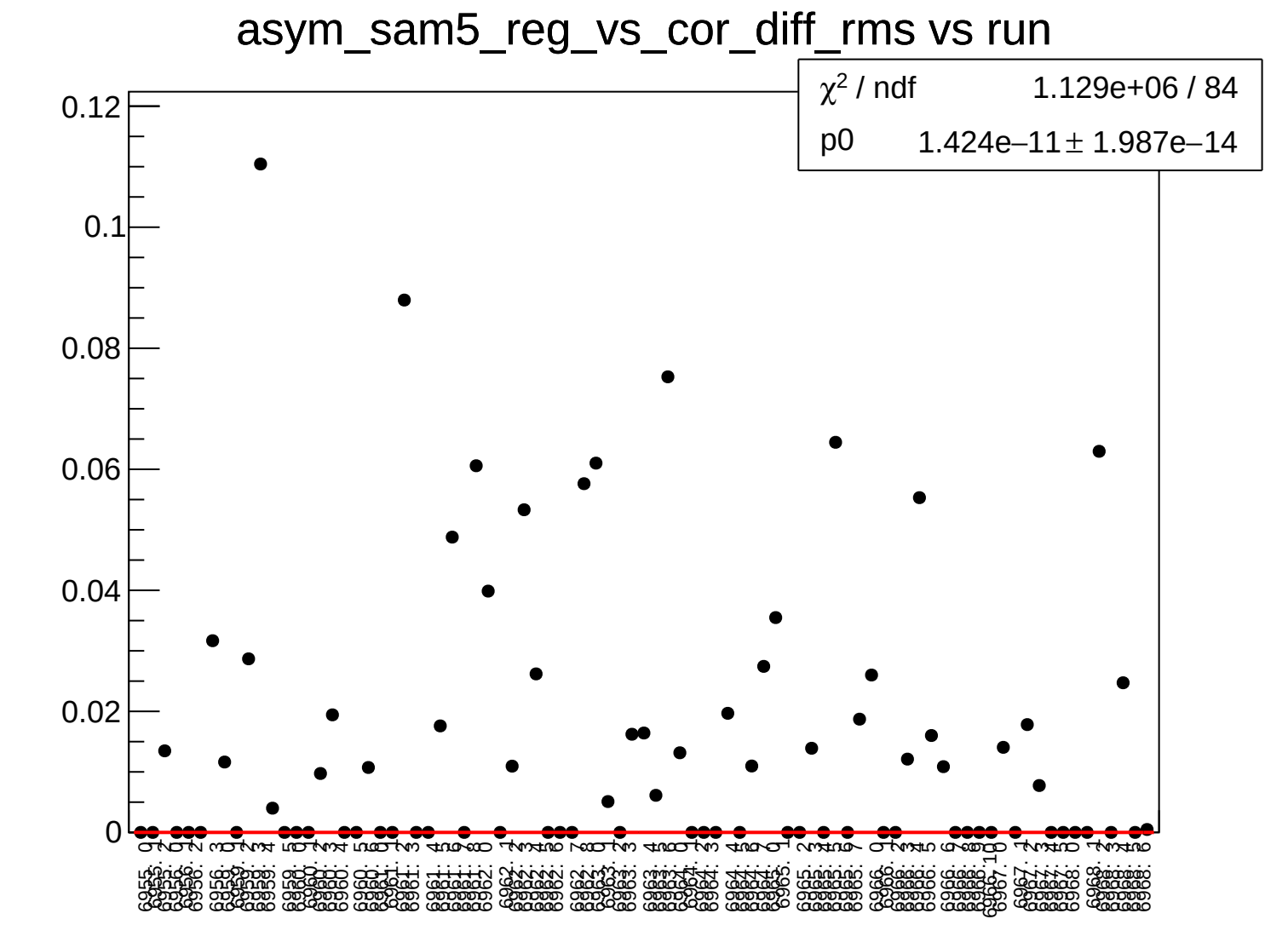

asym_sam5_mean vs run
χ² / ndf 86.1 / 84
p0 730.6 ± 1087
pull
Entries 85
Mean 433.9
Std Dev 0

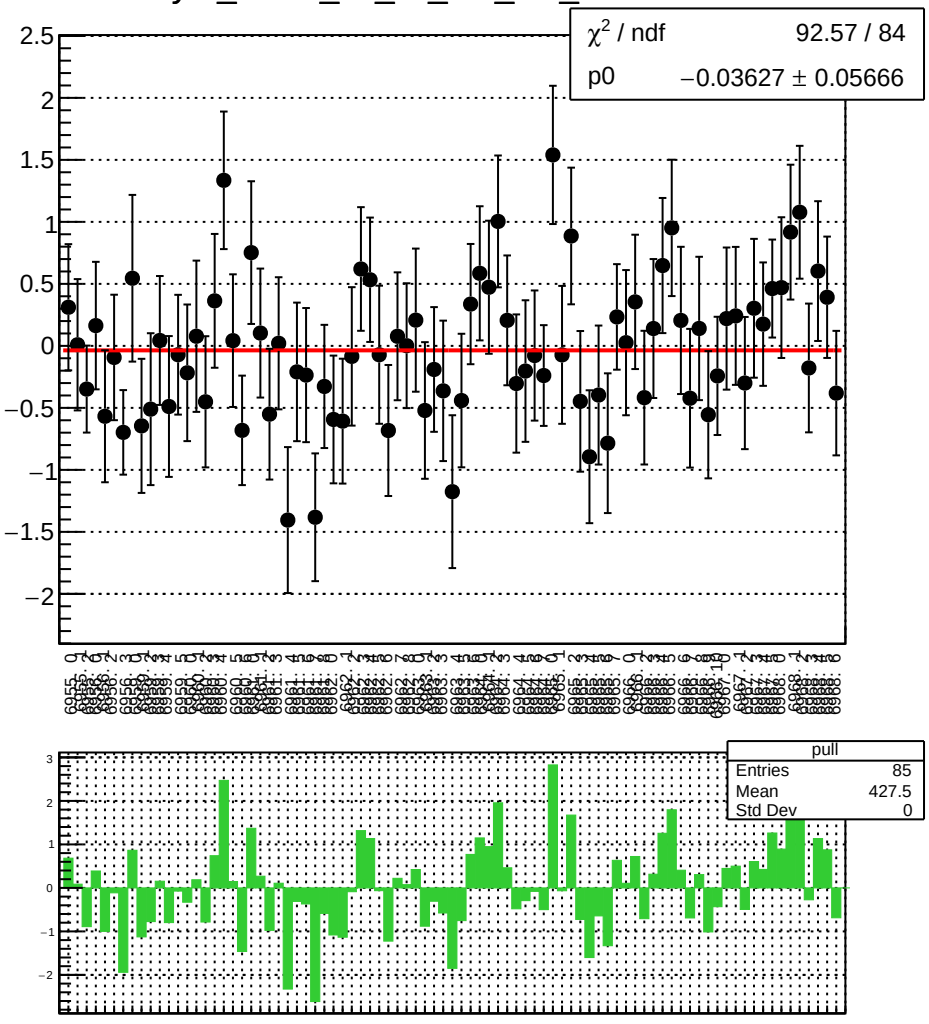

pull1D
Entries 85
Mean −0.007464
Std Dev 1.006

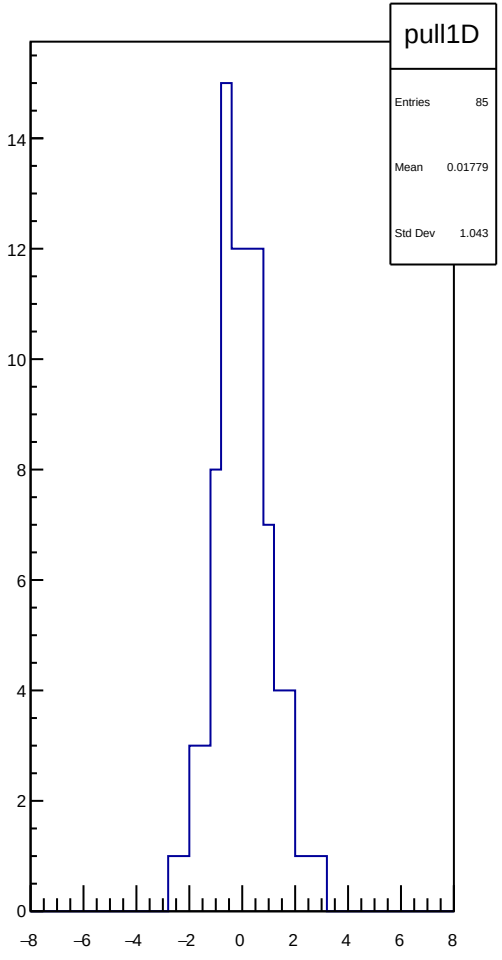

asym_sam5_rms vs run
χ² / ndf 1829 / 84
p0 984.5 ± 0.7686
1060
1040
1020
1000
980
960
940
920
900
880

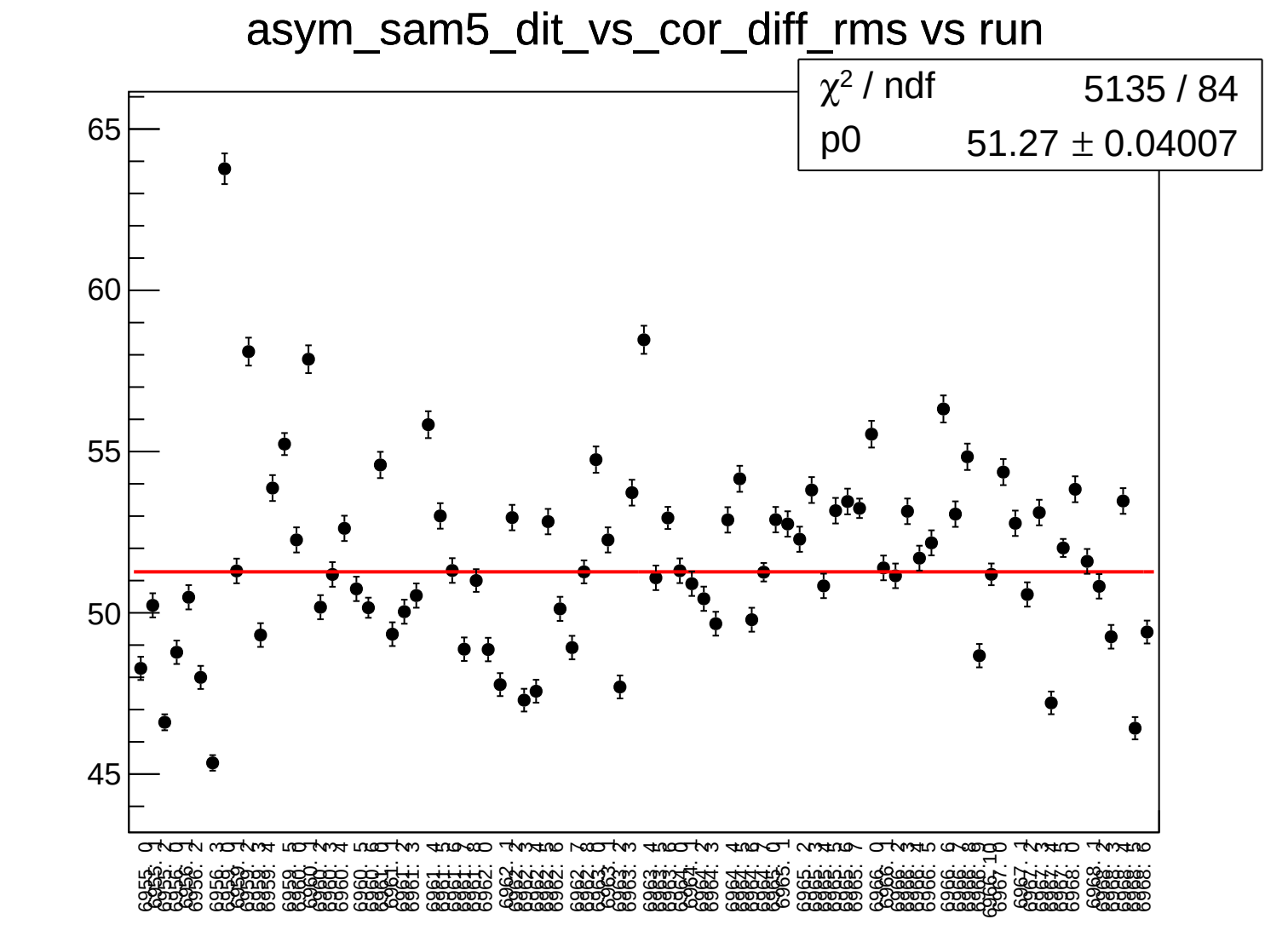

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 65.19 / 84
p0 2.513e−14 ± 2.81e−14
pull
Entries 85
Mean 128.4
Std Dev 0

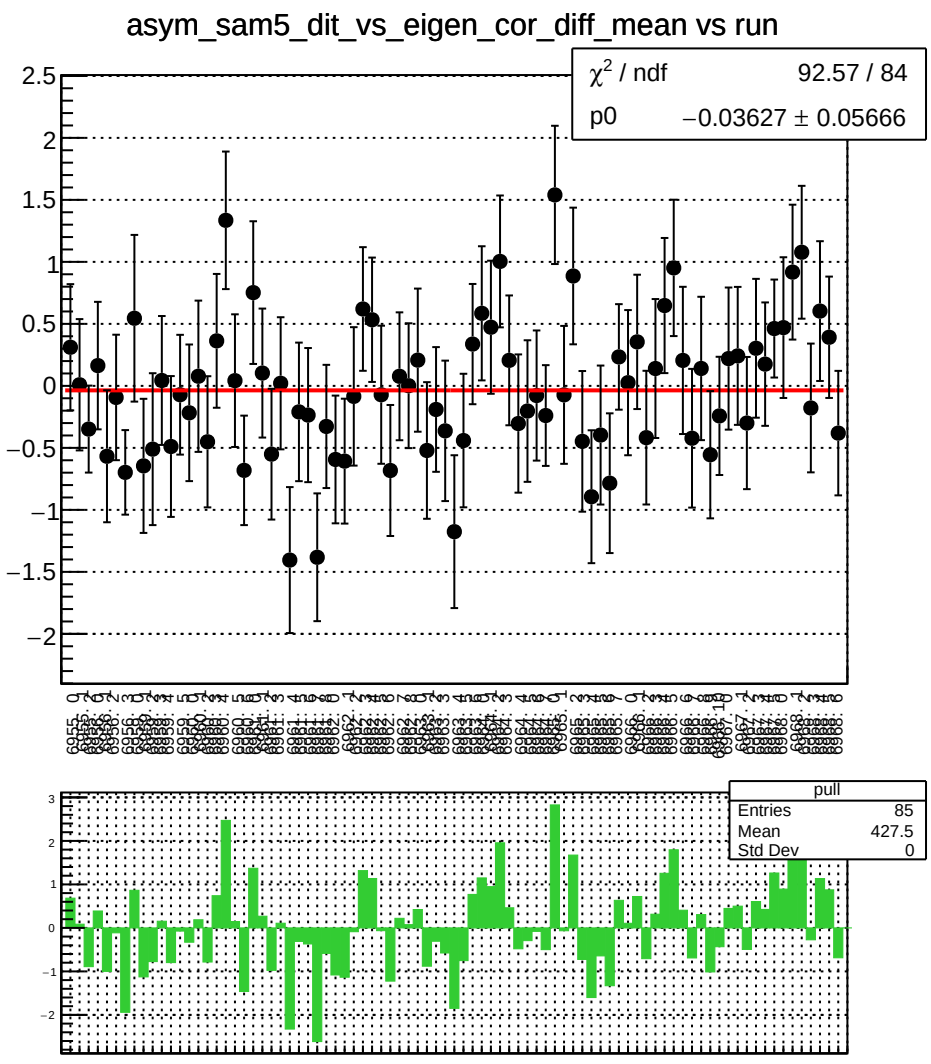

pull1D
Entries 85
Mean −0.02622
Std Dev 0.8754

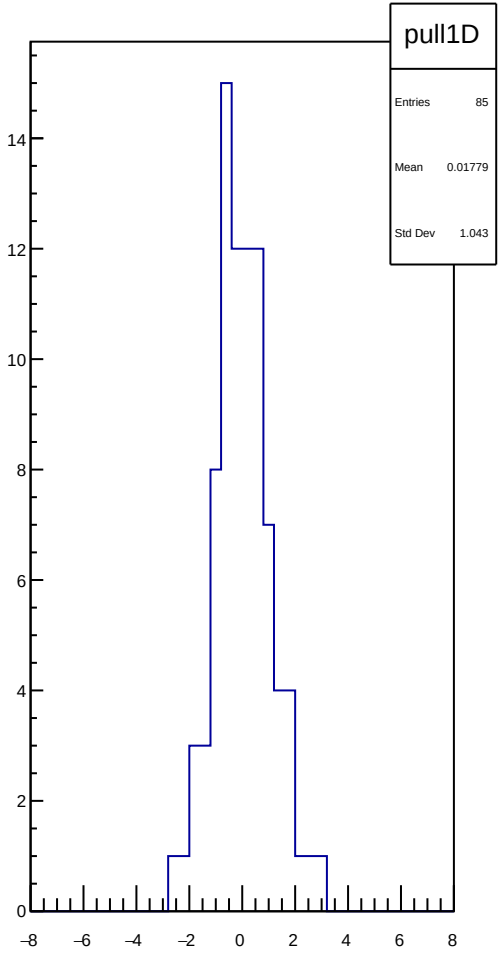

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.129e+06 / 84
p0 1.424e−11 ± 1.987e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

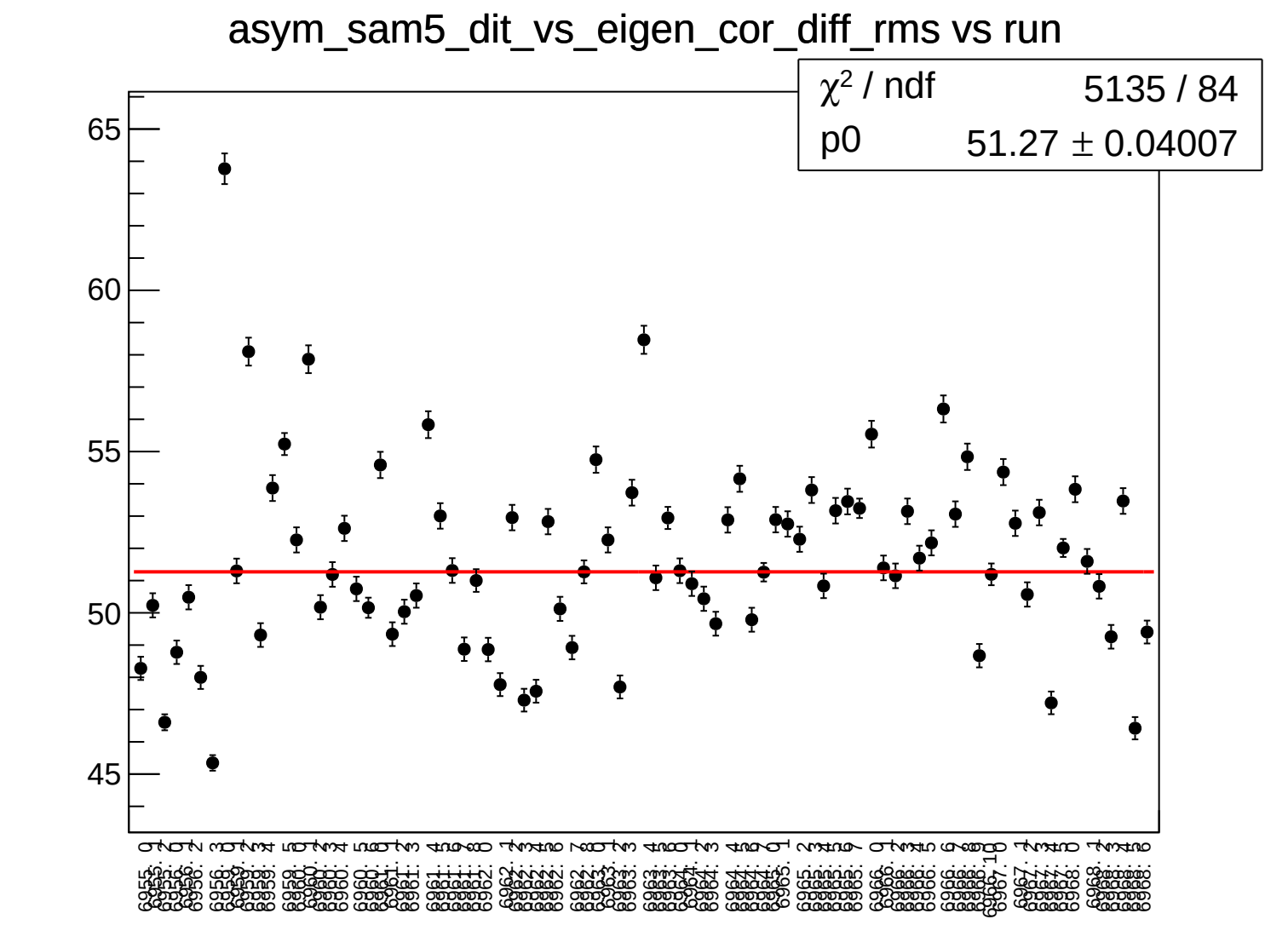

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 92.57 / 84
p0 −0.03627 ± 0.05666
pull
Entries 85
Mean 427.5
Std Dev 0

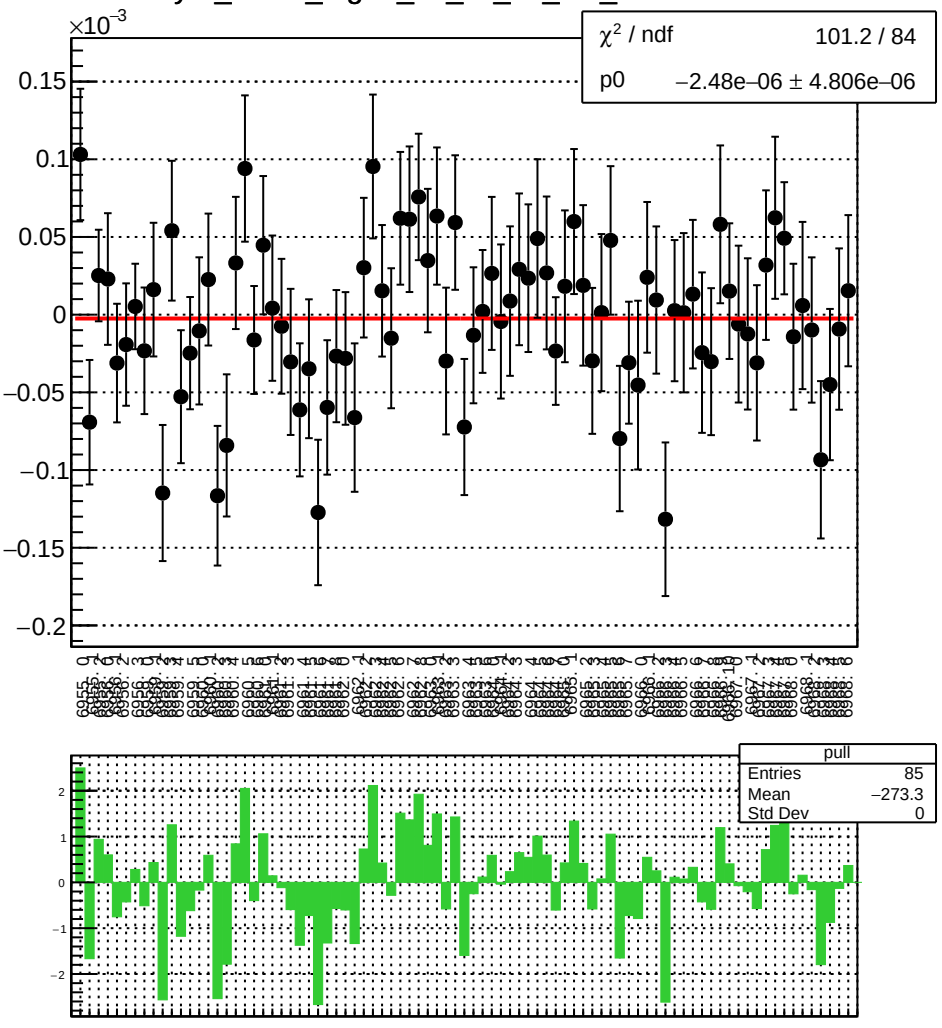

pull1D
Entries 85
Mean 0.01779
Std Dev 1.043

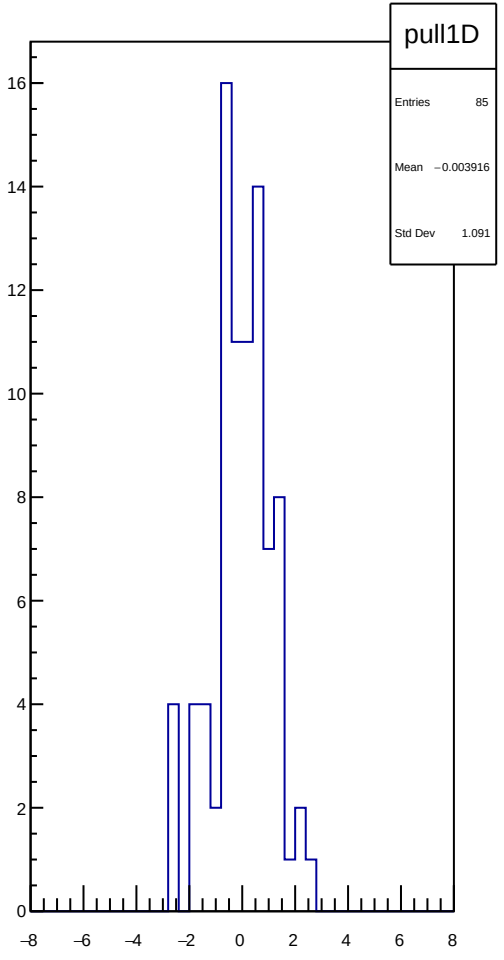

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 5135 / 84
p0 51.27 ± 0.04007
65
60
55
50
45

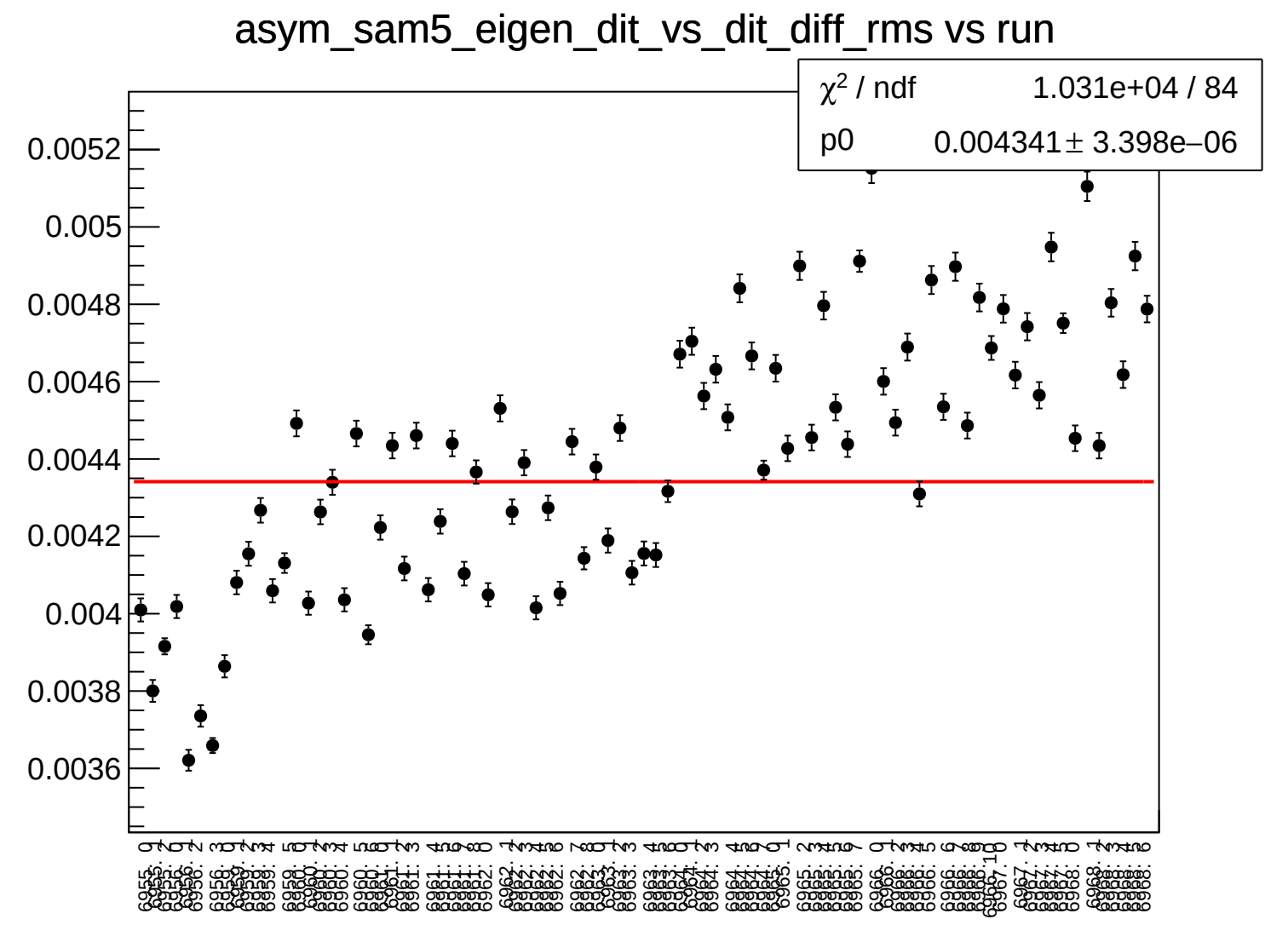

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.57 / 84
p0 −0.03627 ± 0.05666
pull
Entries 85
Mean 427.5
Std Dev 0

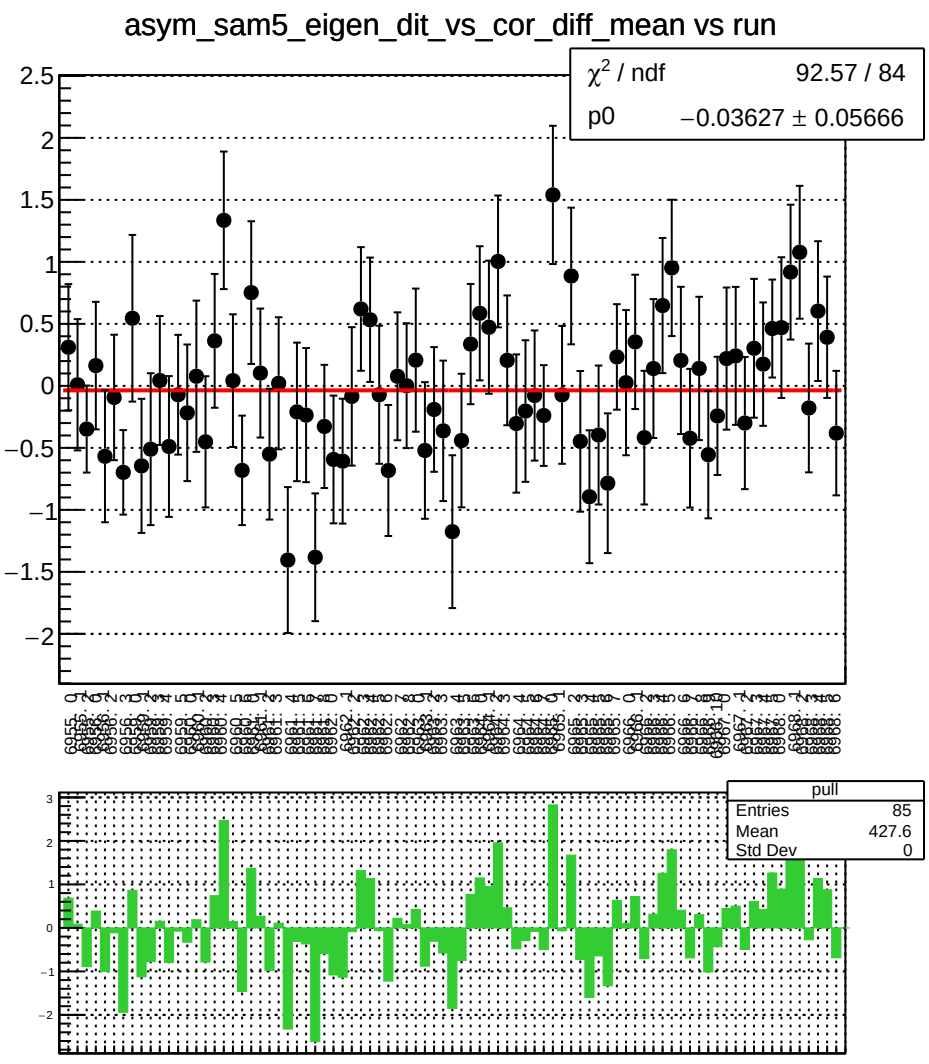

pull1D
Entries 85
Mean 0.01779
Std Dev 1.043

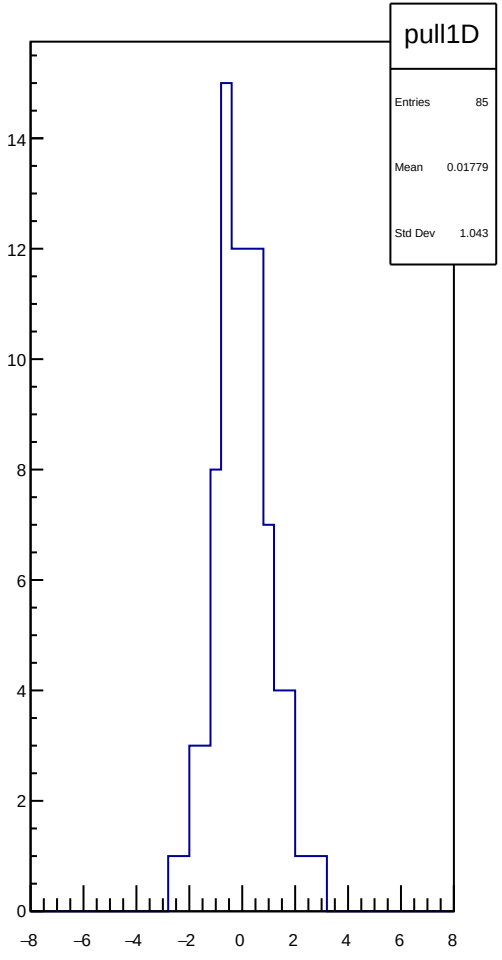

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5135 / 84
p0 51.27 ± 0.04007
65
60
55
50
45

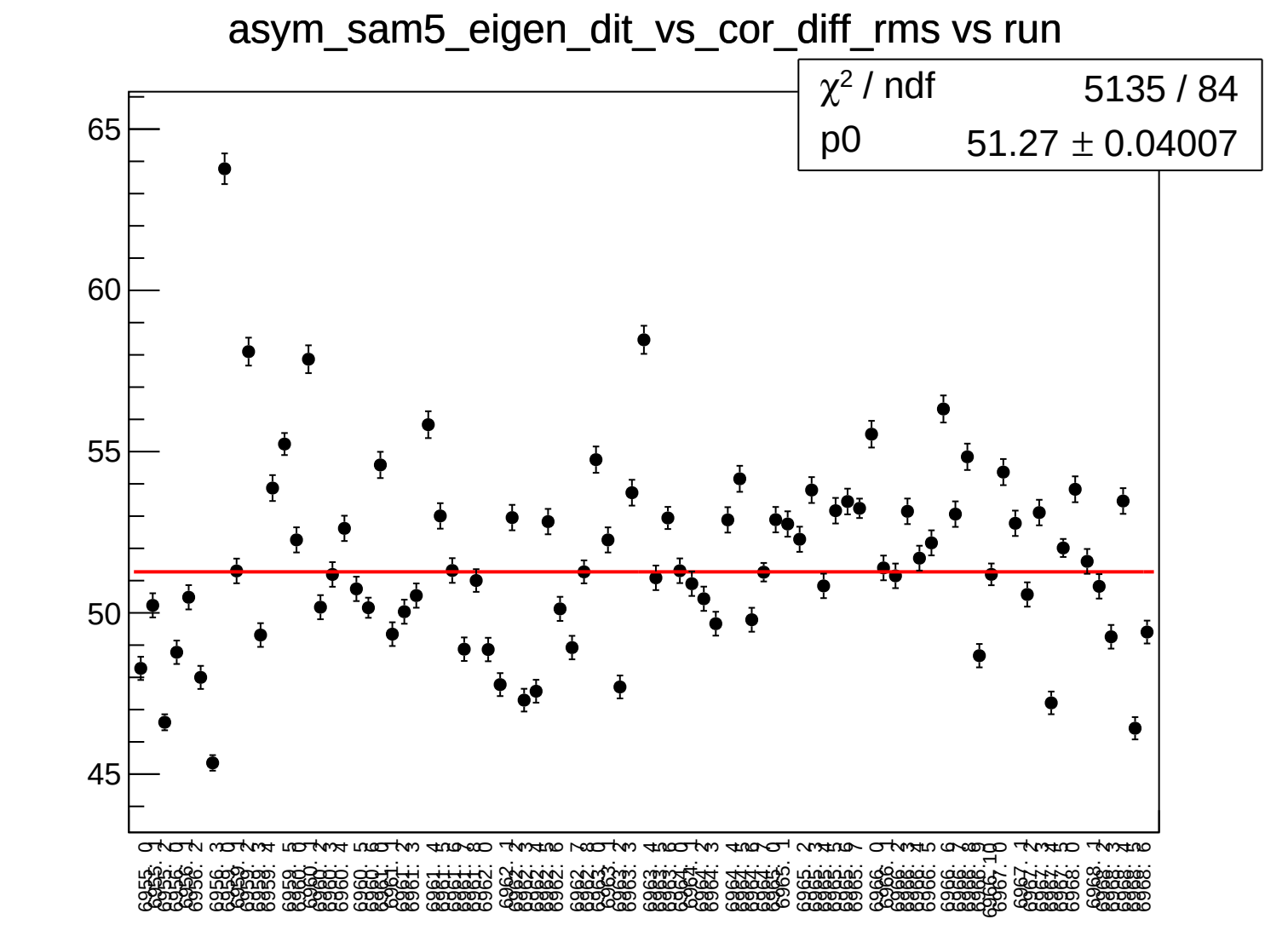

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.2 / 84
p0 −2.48e−06 ± 4.806e−06
pull
Entries 85
Mean −273.3
Std Dev 0

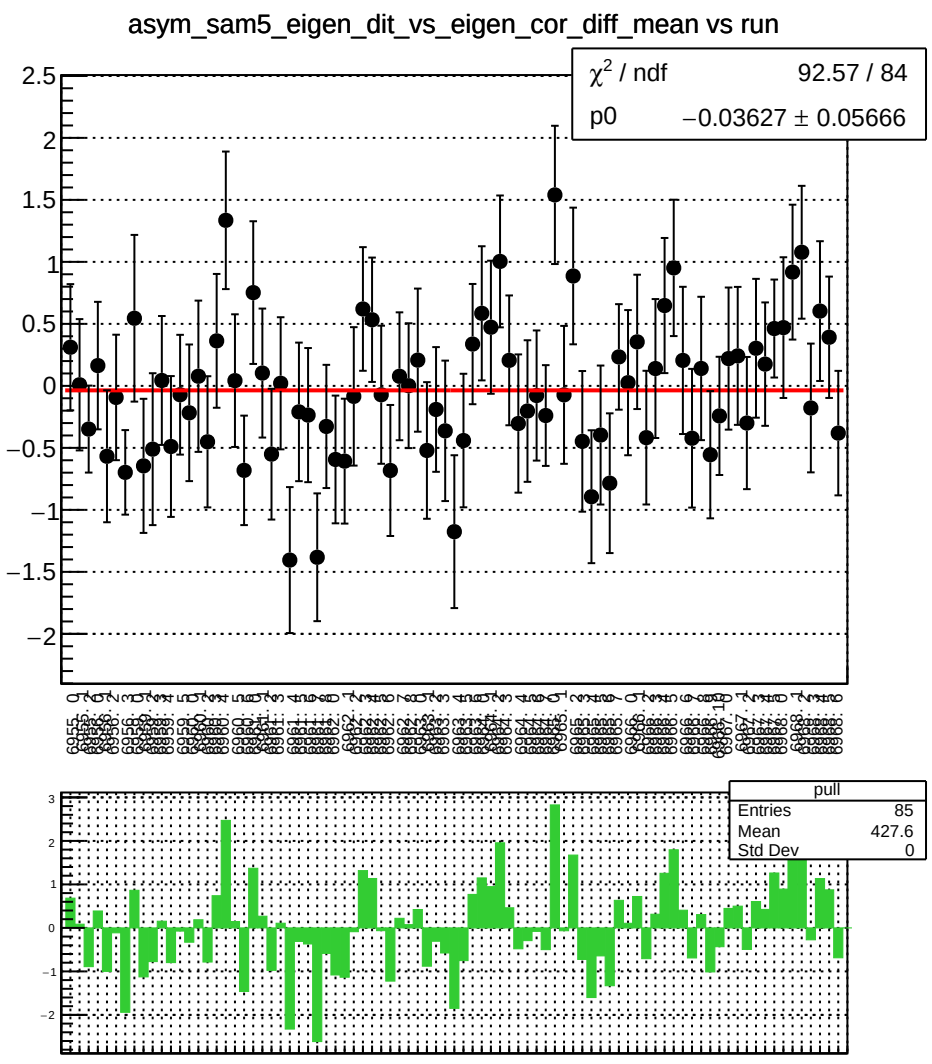

pull1D
Entries 85
Mean −0.003916
Std Dev 1.091

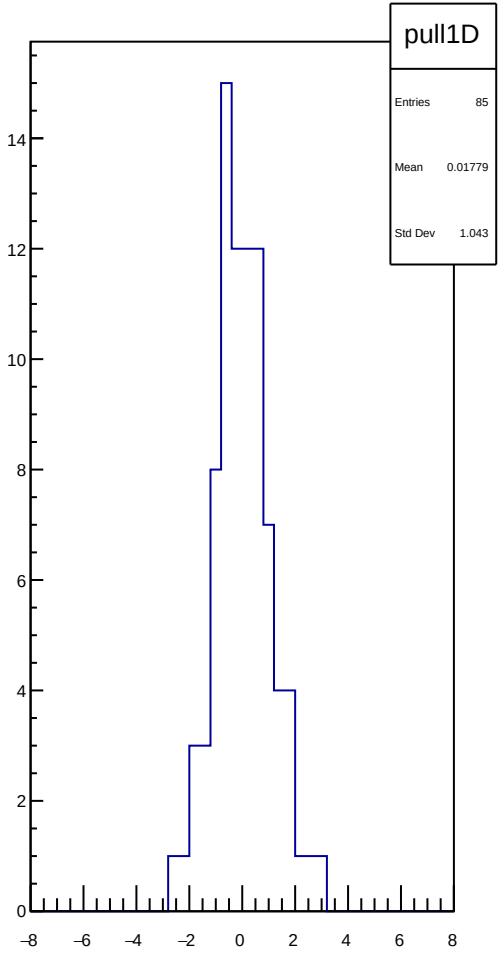

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.031e+04 / 84
p0 0.004341 ± 3.398e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

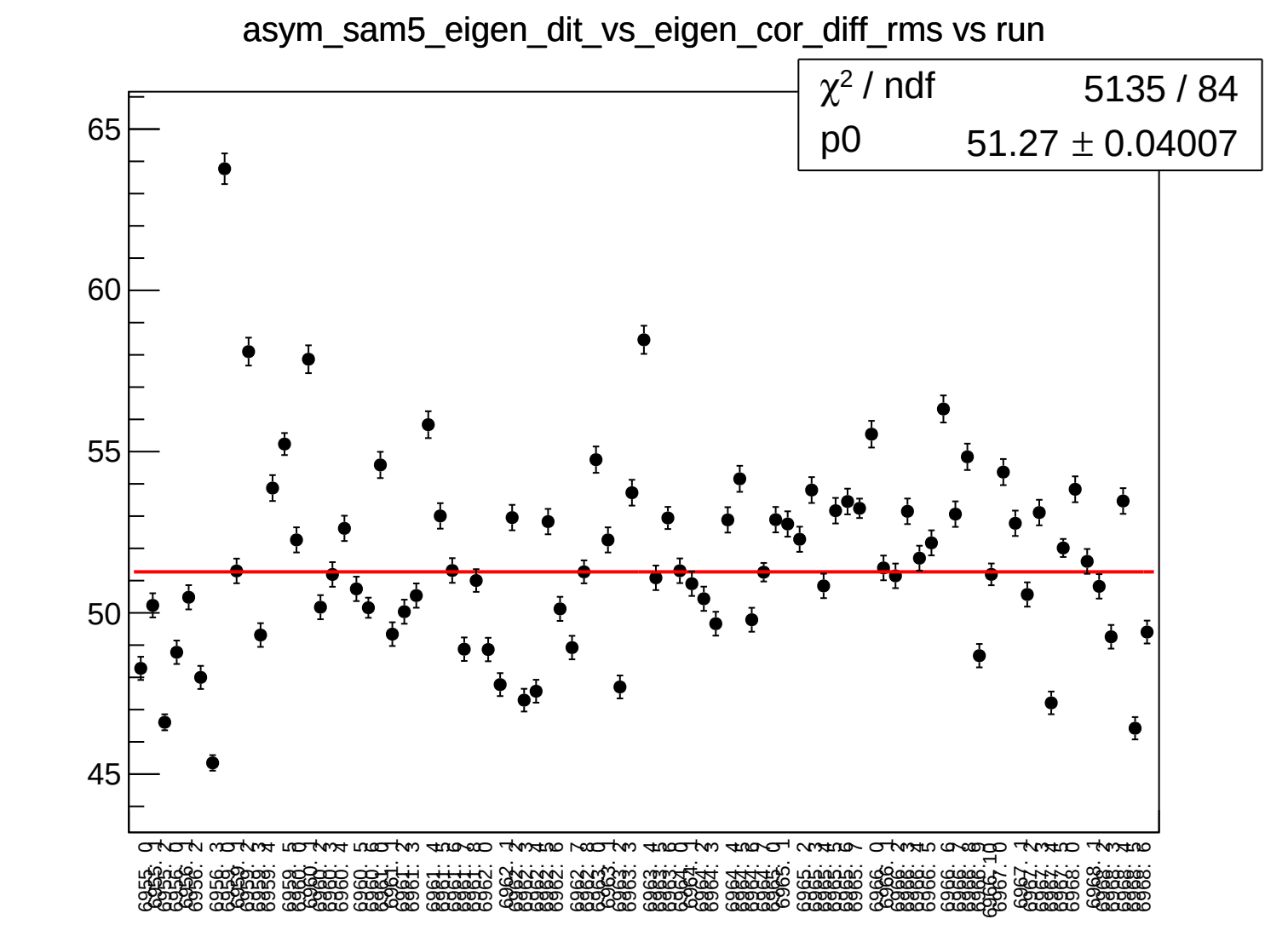

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.57 / 84
p0 −0.03627 ± 0.05666
pull
Entries 85
Mean 427.6
Std Dev 0

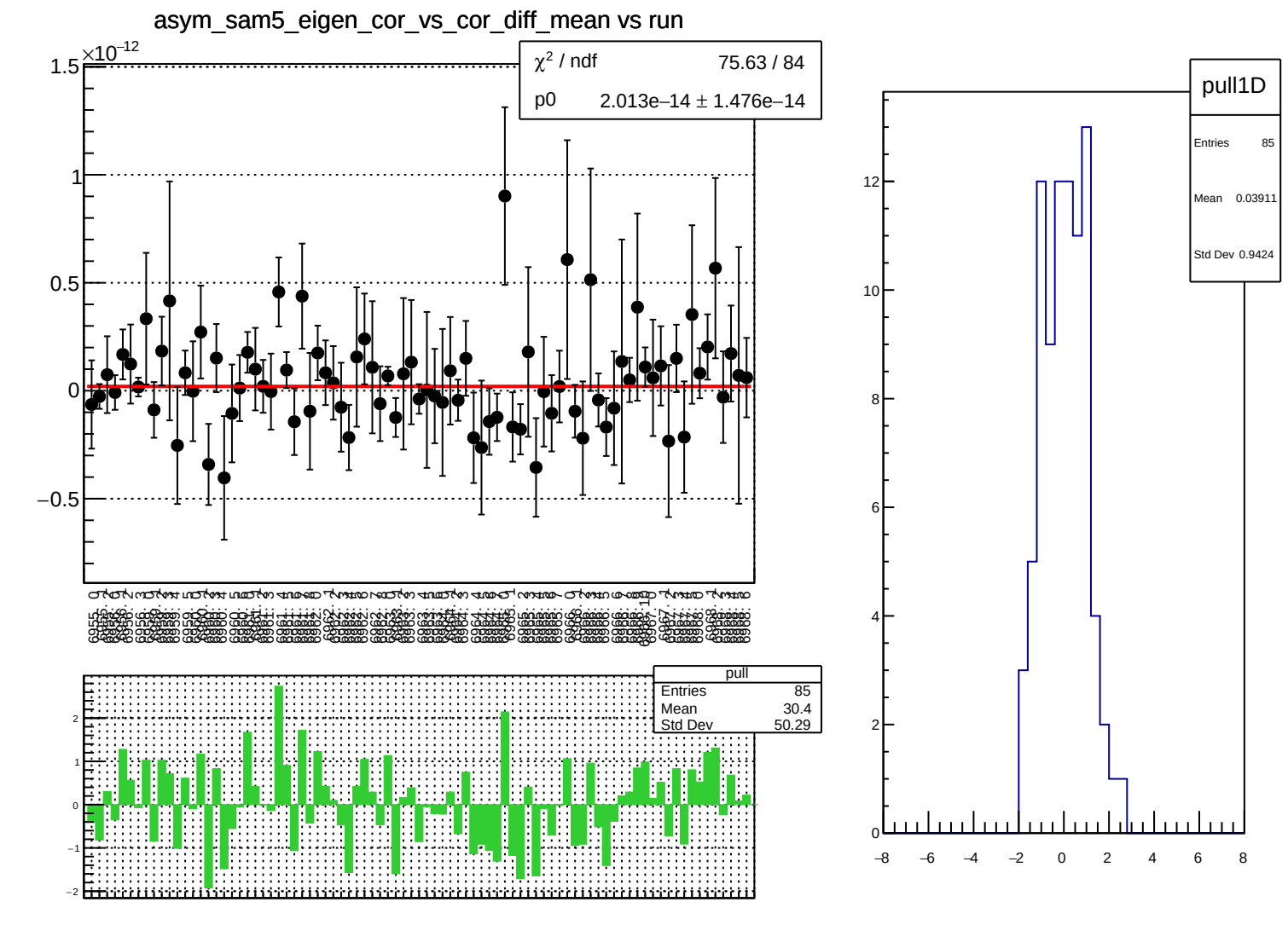

pull1D
Entries 85
Mean 0.01779
Std Dev 1.043

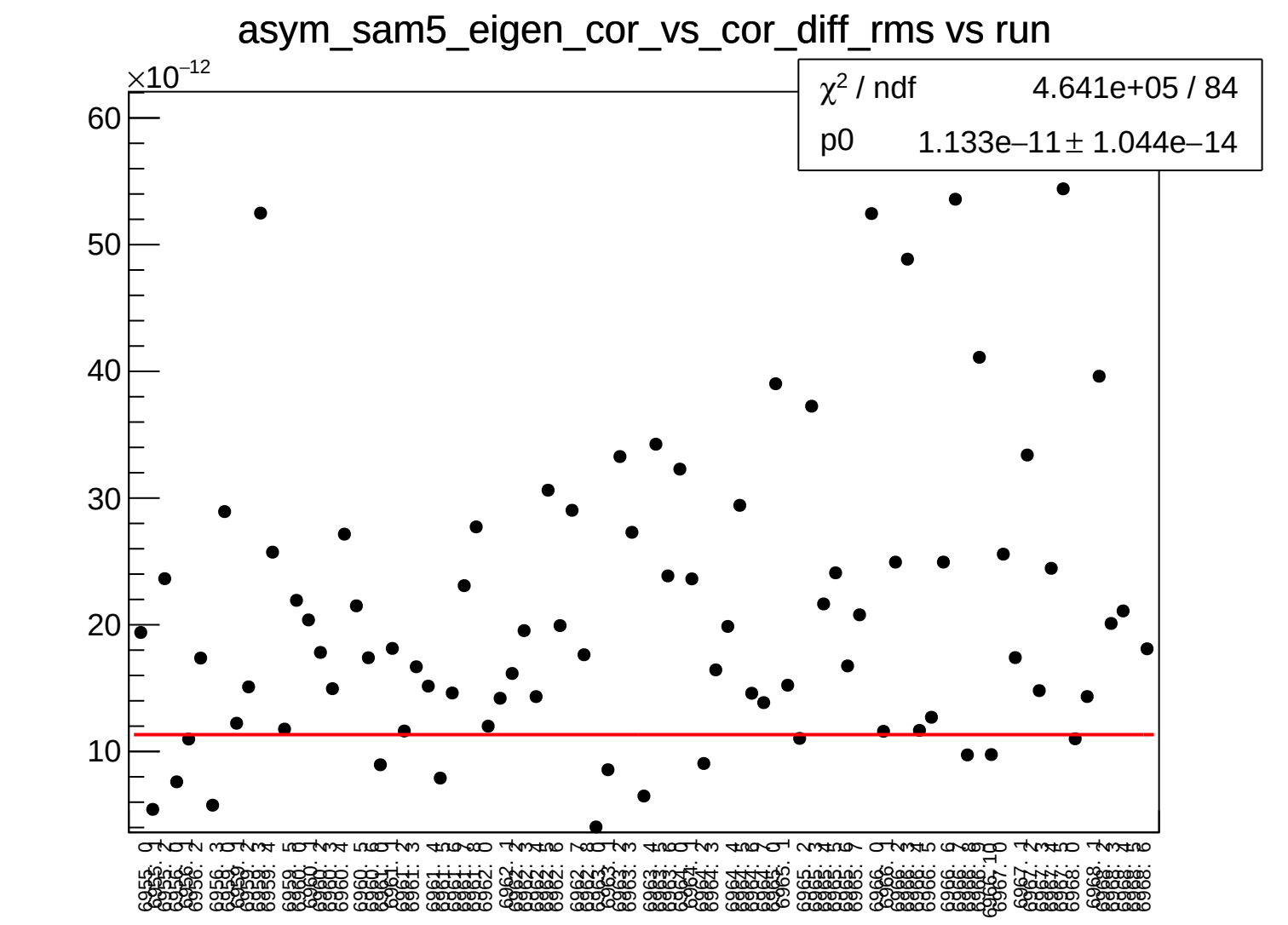

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5135 / 84
p0 51.27 ± 0.04007
65
60
55
50
45

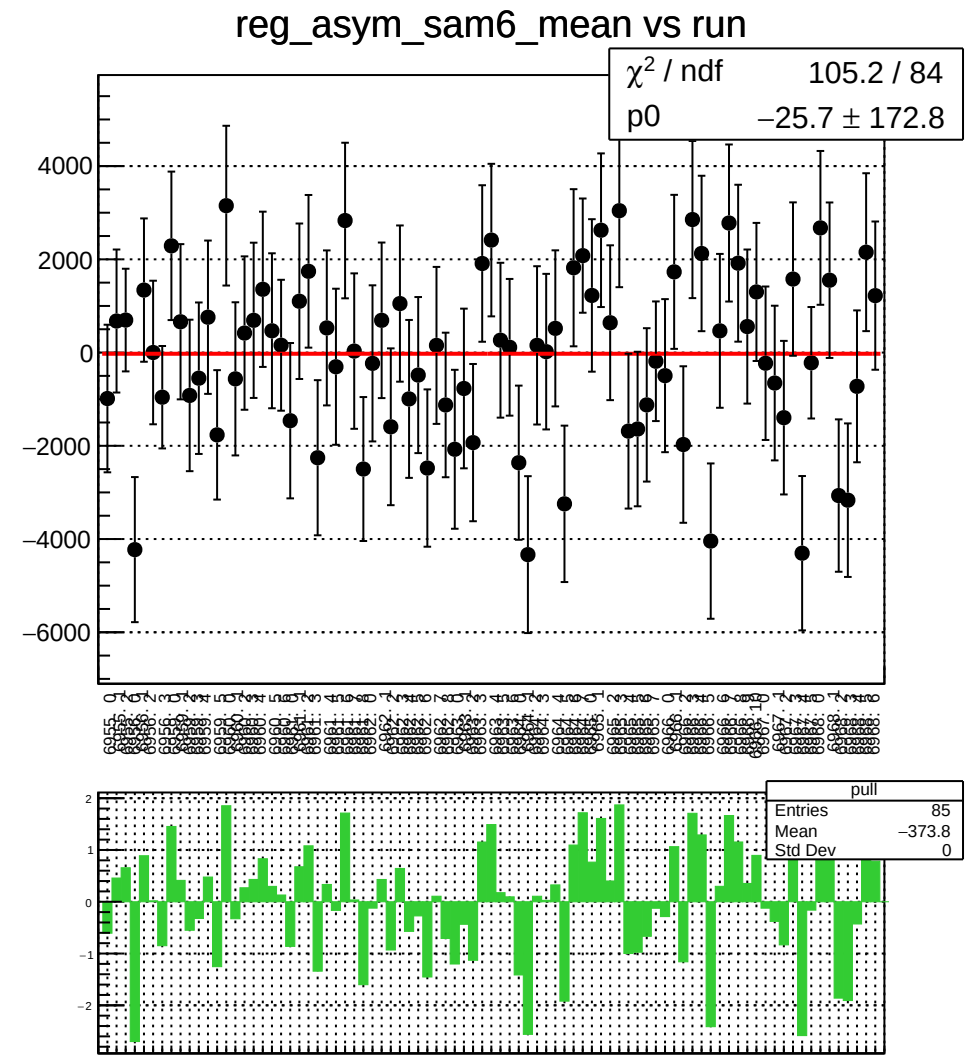

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.57 / 84
p0 −0.03627 ± 0.05666
pull
Entries 85
Mean 427.6
Std Dev 0

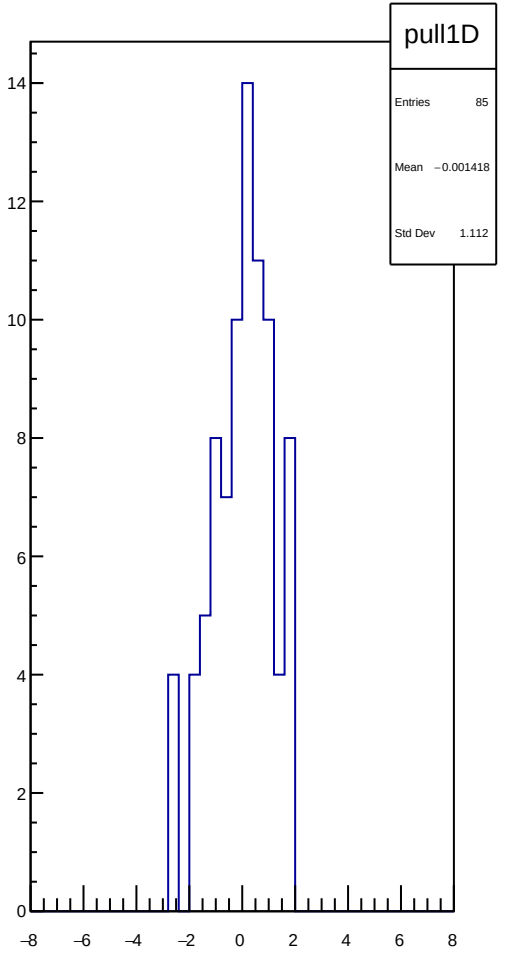

pull1D
Entries 85
Mean 0.01779
Std Dev 1.043

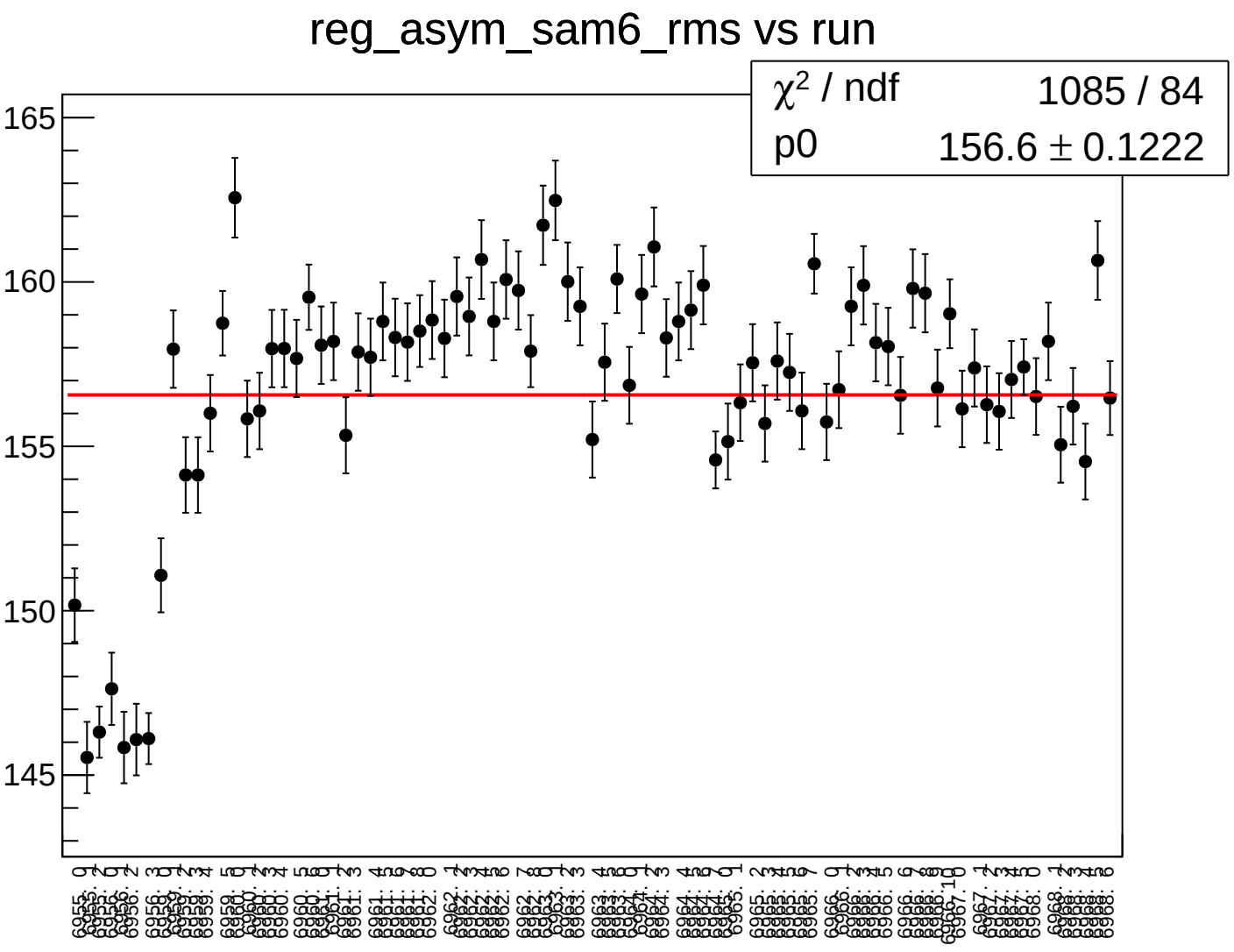

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5135 / 84
p0 51.27 ± 0.04007
65
60
55
50
45

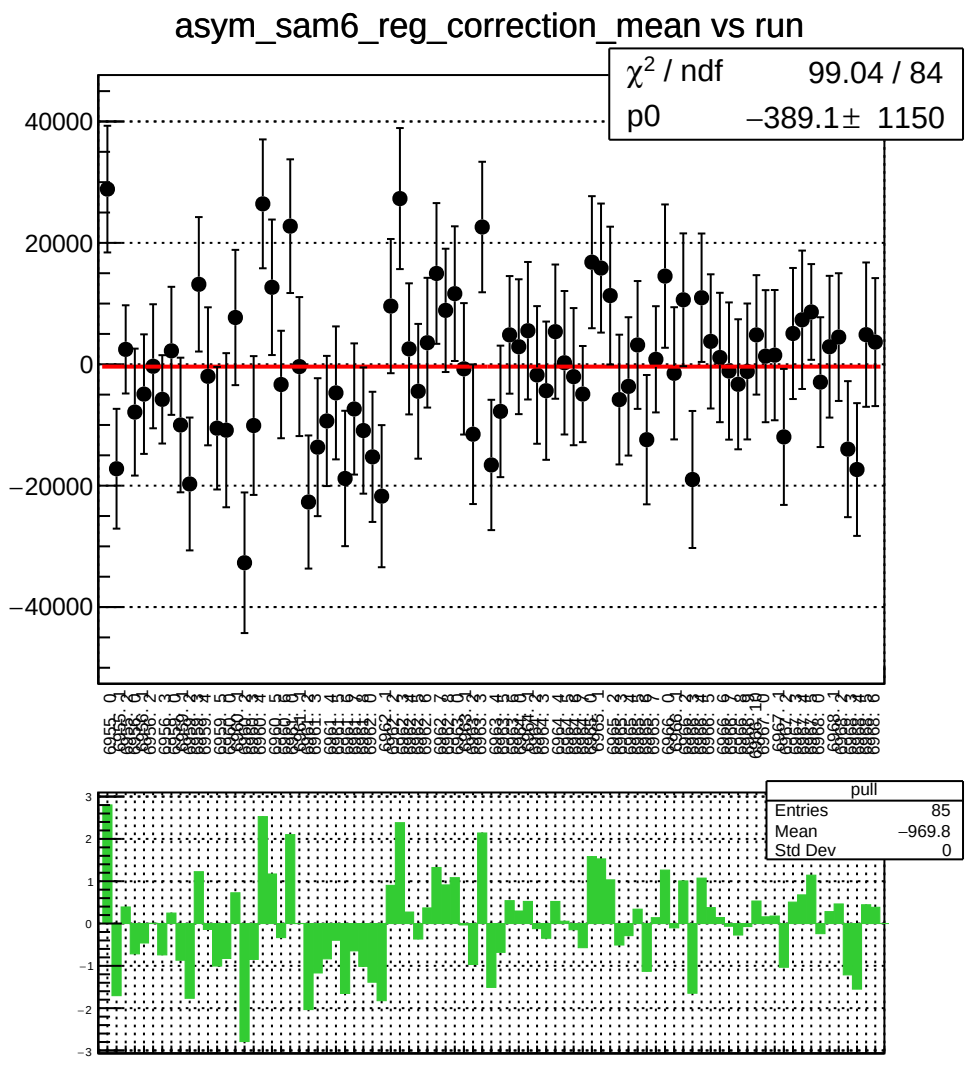

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.63 / 84
p0 2.013e−14 ± 1.476e−14
1.5
1
0.5
0
−0.5
pull
Entries 85
Mean 30.4
Std Dev 50.29
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.03911
Std Dev 0.9424
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

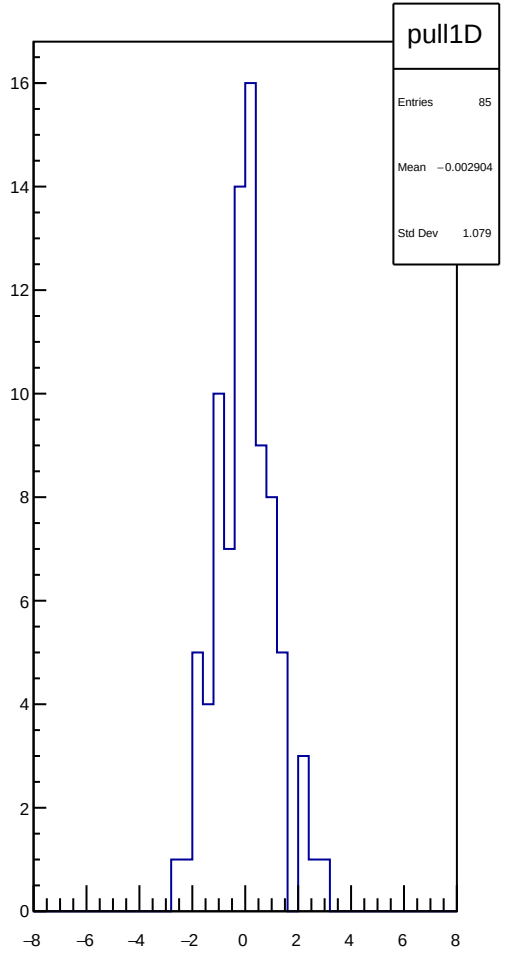

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 4.641e+05 / 84
p0 1.133e−11 ± 1.044e−14

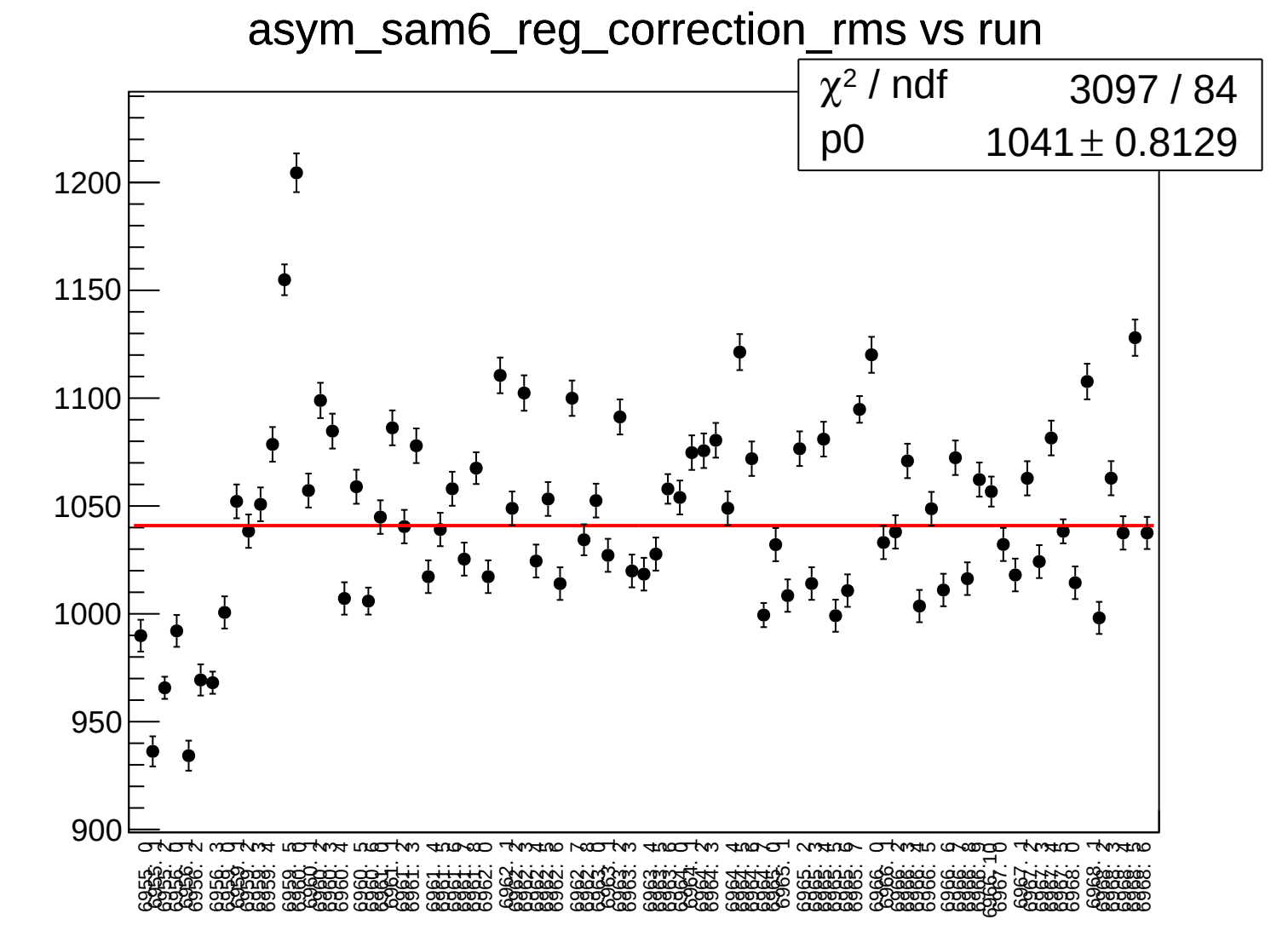

reg_asym_sam6_mean vs run
χ² / ndf 105.2 / 84
p0 −25.7 ± 172.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −373.8
Std Dev 0
2
1
0
−1
−2

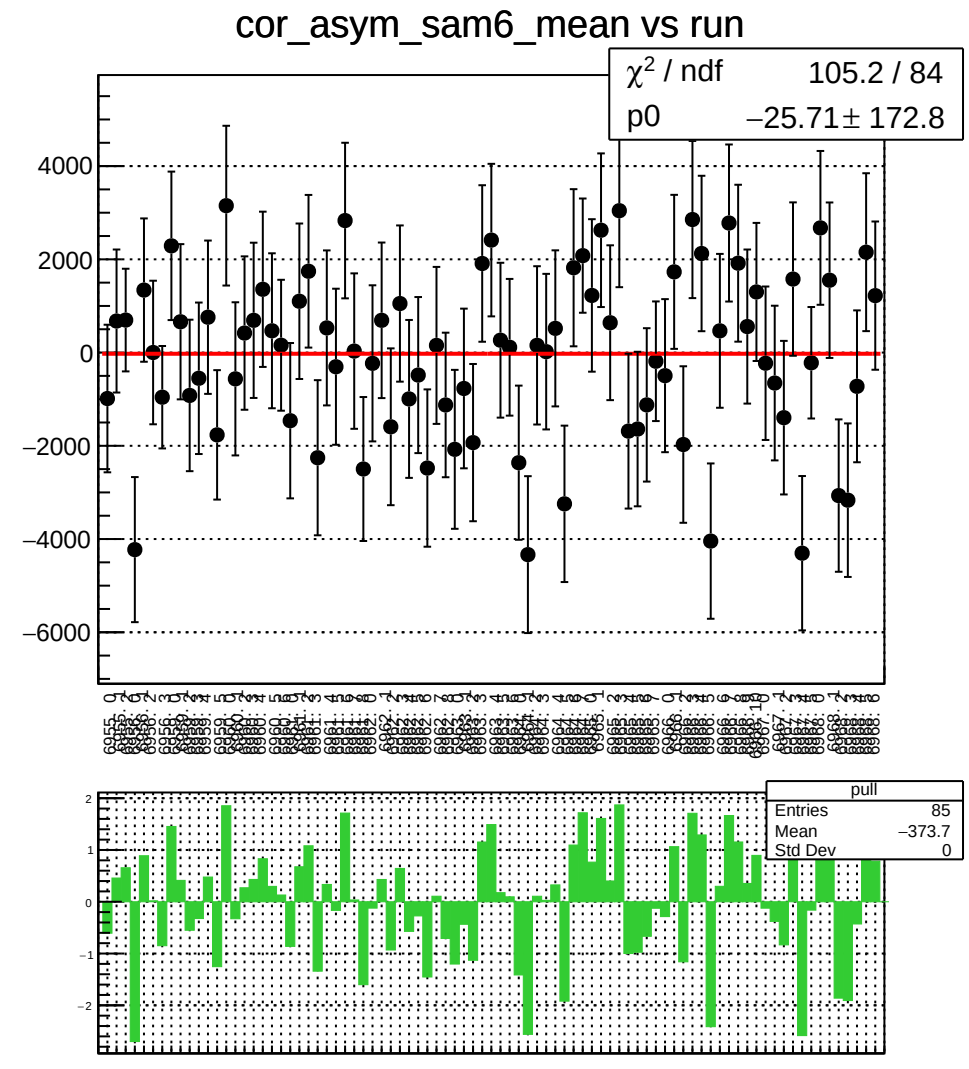

pull1D
Entries 85
Mean −0.001418
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

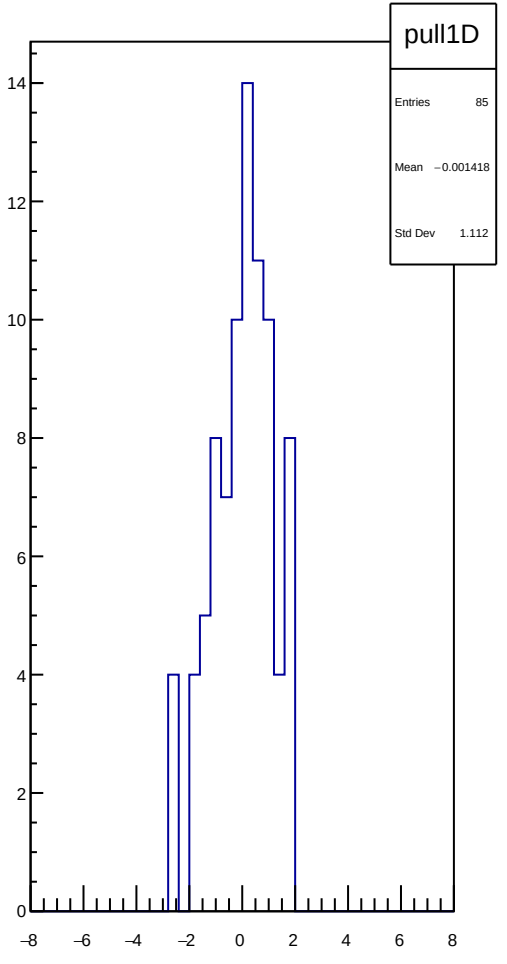

reg_asym_sam6_rms vs run
χ² / ndf 1085 / 84
p0 156.6 ± 0.1222
165
160
155
150
145

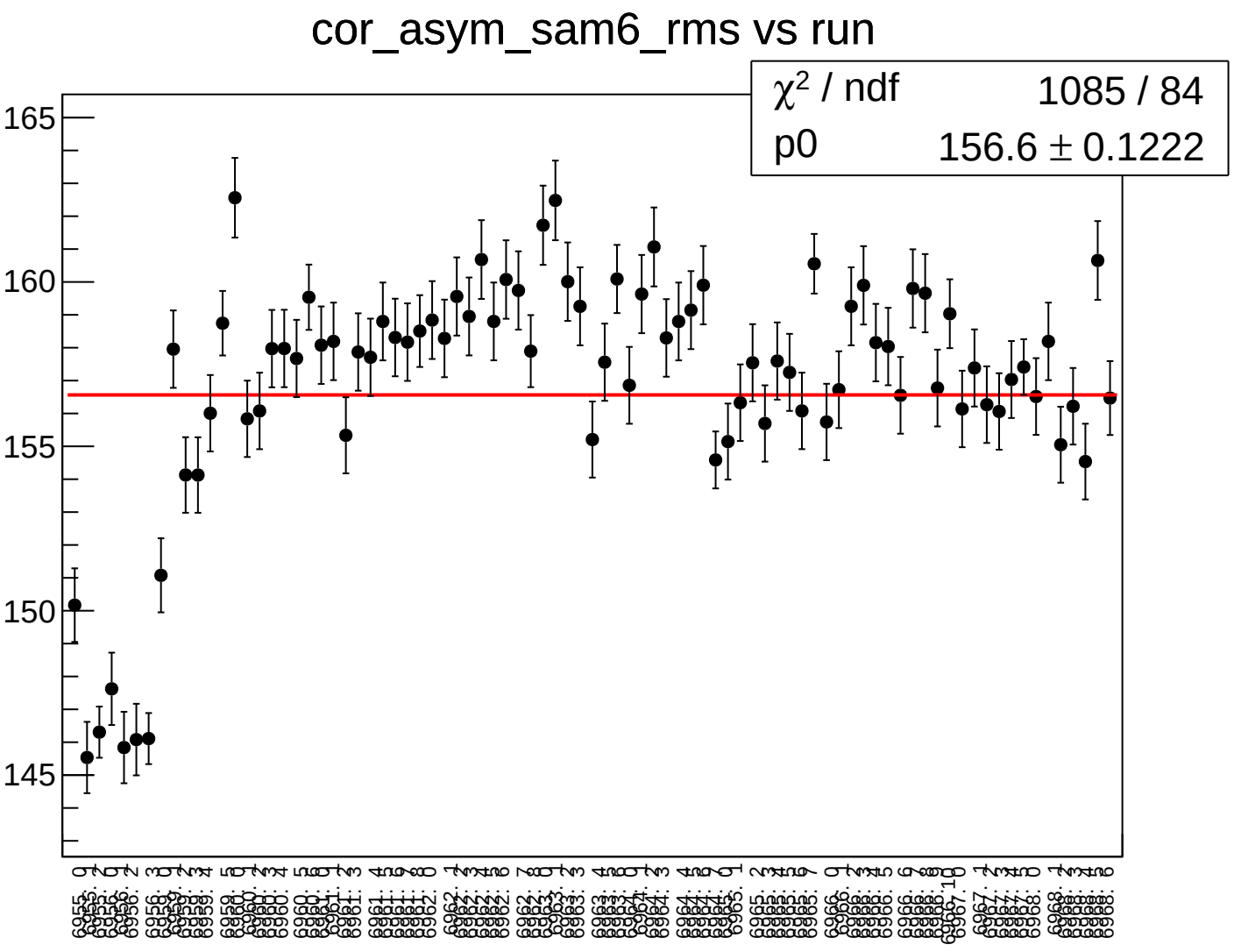

asym_sam6_reg_correction_mean vs run
χ² / ndf 99.04 / 84
p0 −389.1± 1150
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −969.8
Std Dev 0
3
2
1
0
−1
−2
−3

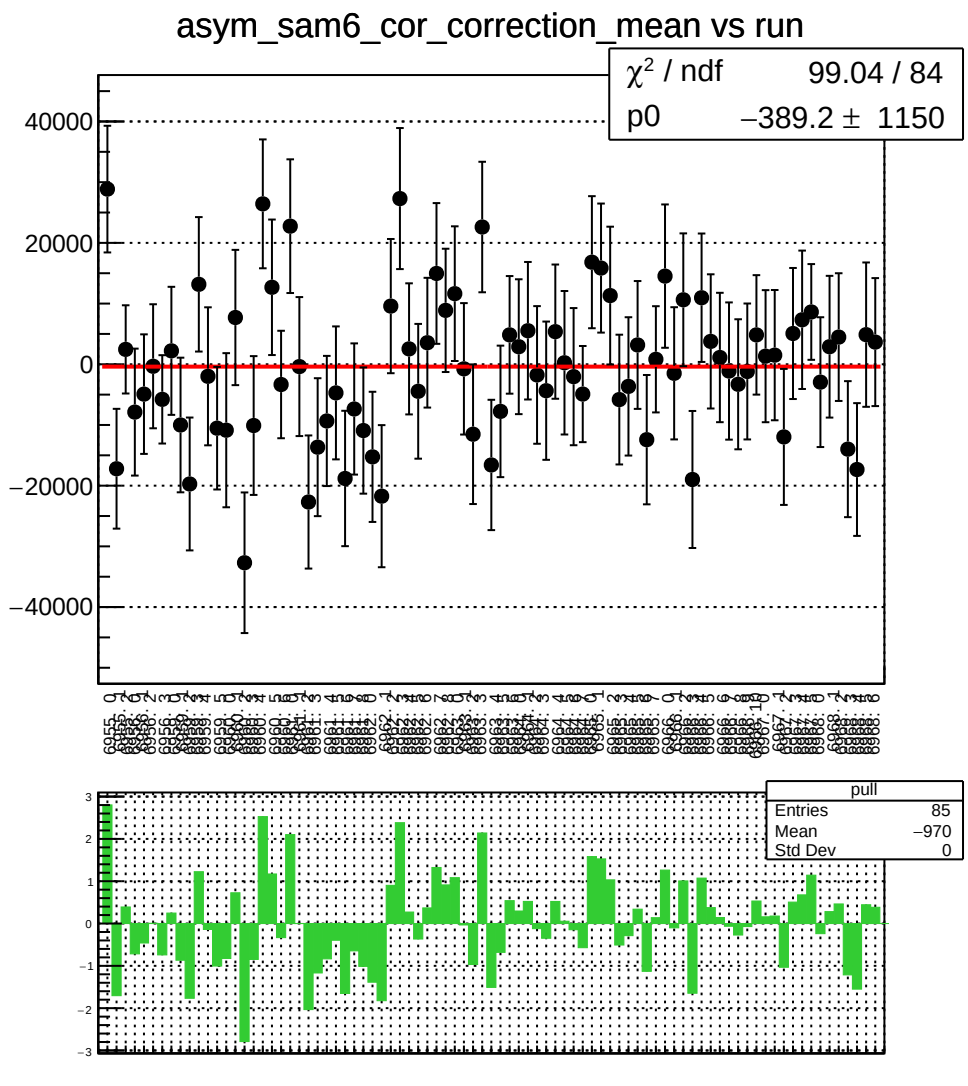

pull1D
Entries 85
Mean −0.002904
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

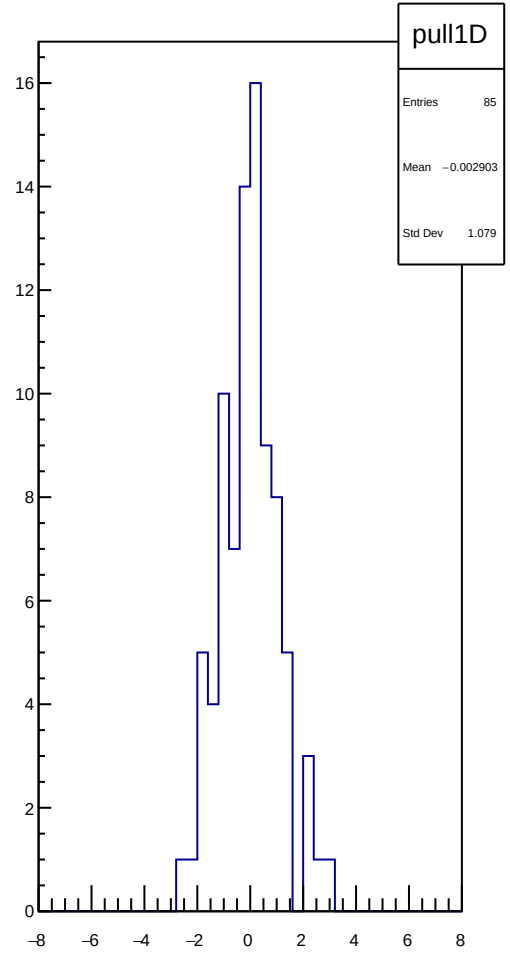

asym_sam6_reg_correction_rms vs run
χ² / ndf 3097 / 84
p0 1041 ± 0.8129
1200
1150
1100
1050
1000
950
900

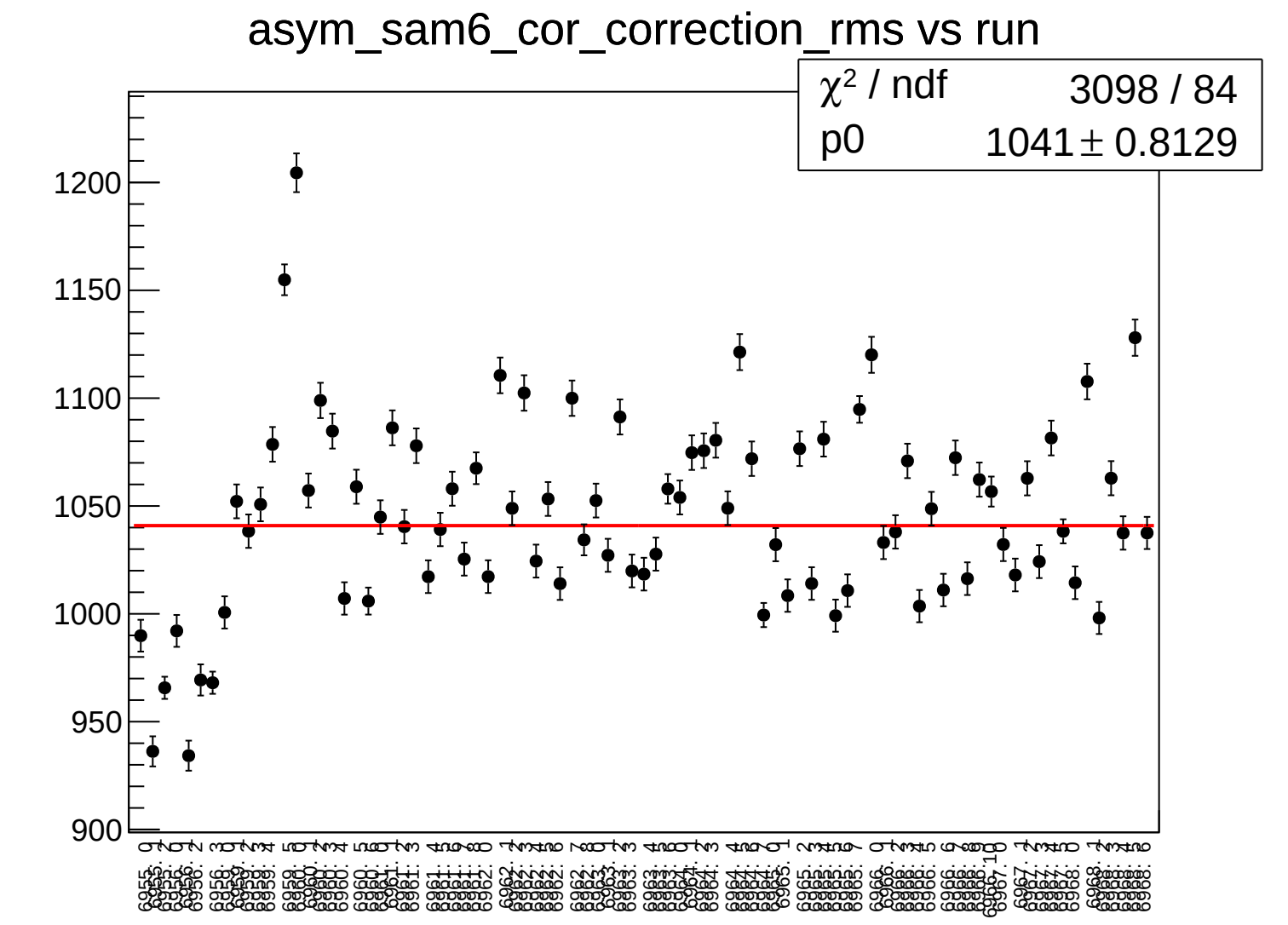

cor_asym_sam6_mean vs run
χ² / ndf 105.2 / 84
p0 −25.71± 172.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −373.7
Std Dev 0
2
1
0
−1
−2

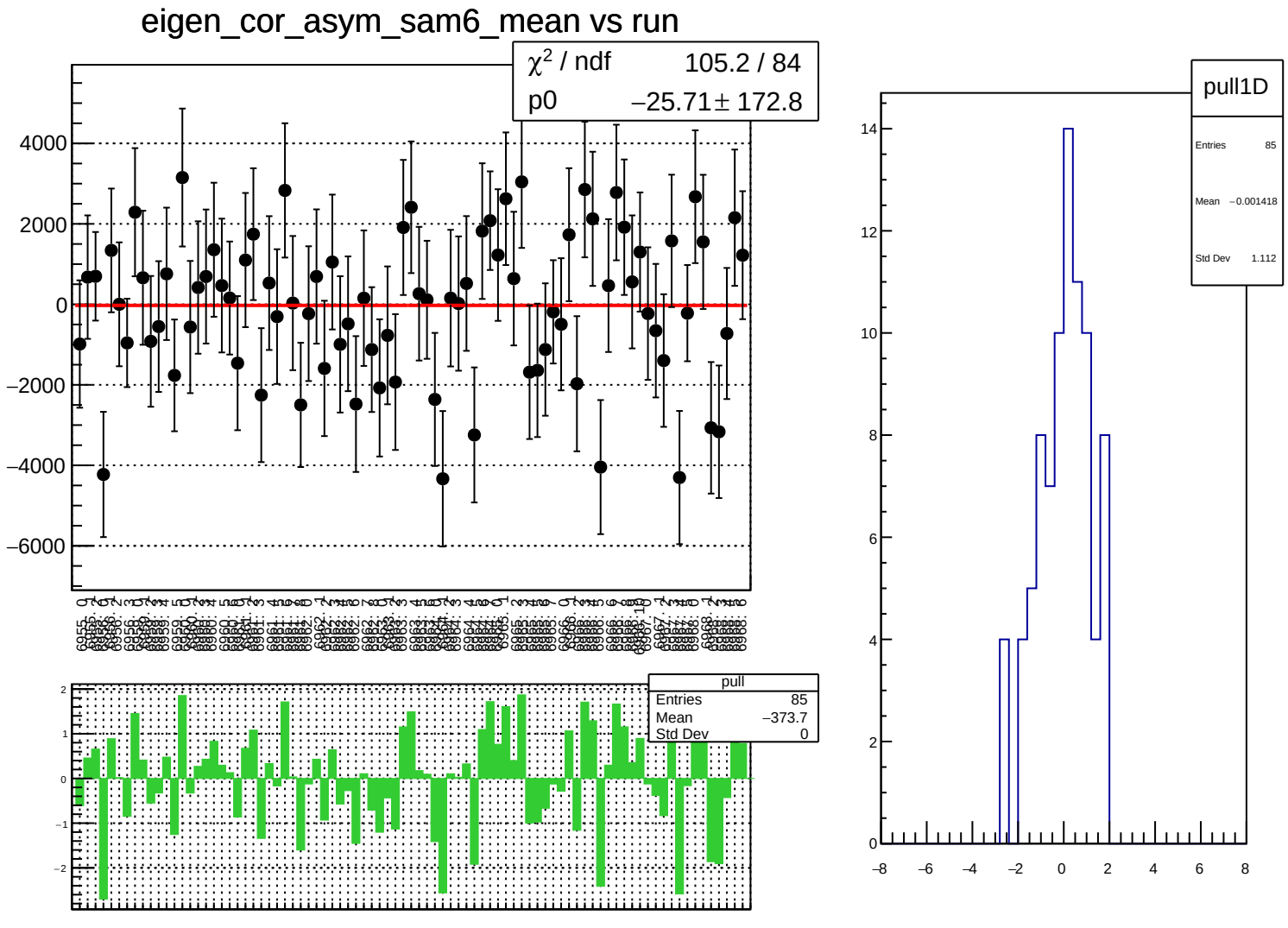

pull1D
Entries 85
Mean −0.001418
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

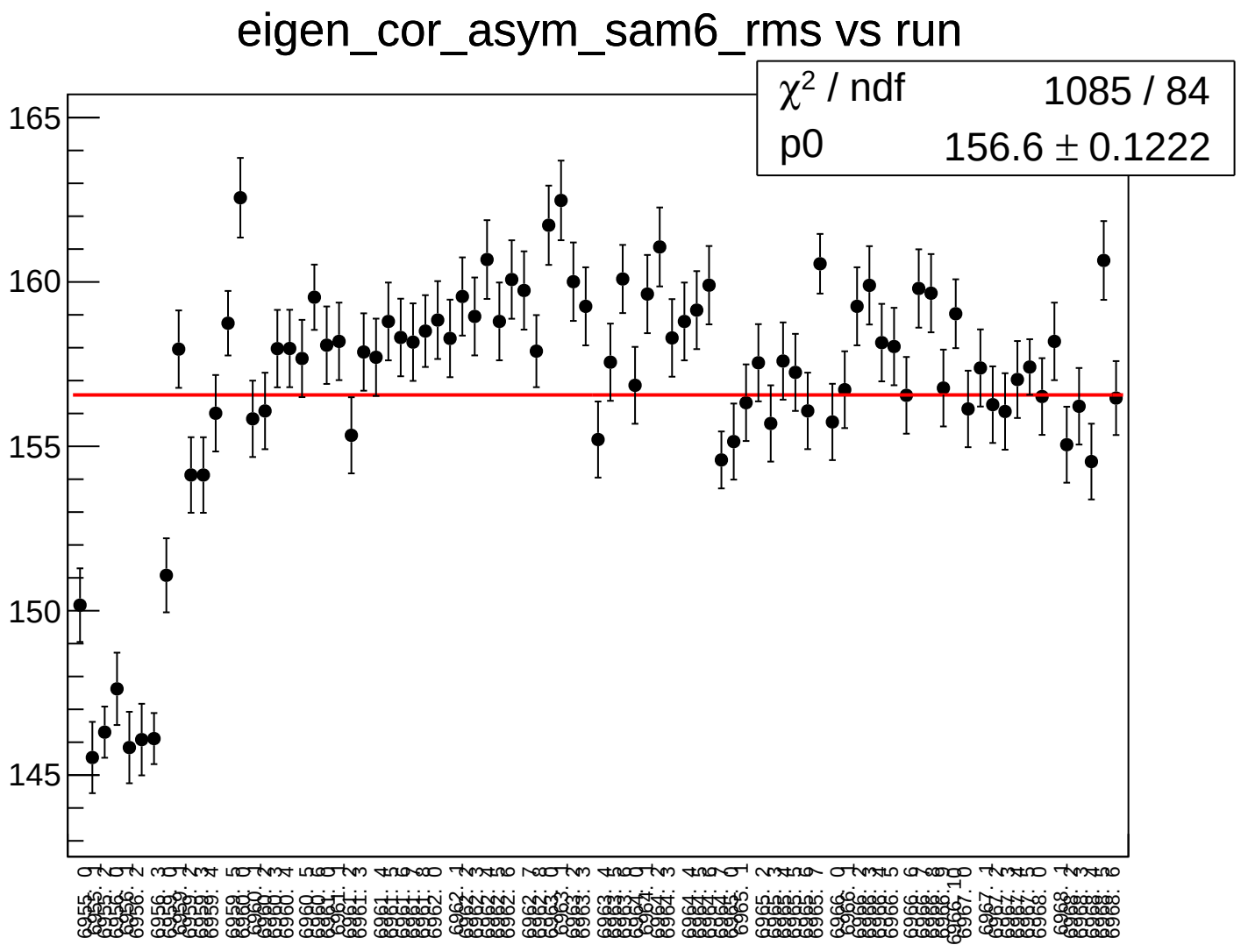

cor_asym_sam6_rms vs run
χ² / ndf 1085 / 84
p0 156.6 ± 0.1222
165
160
155
150
145

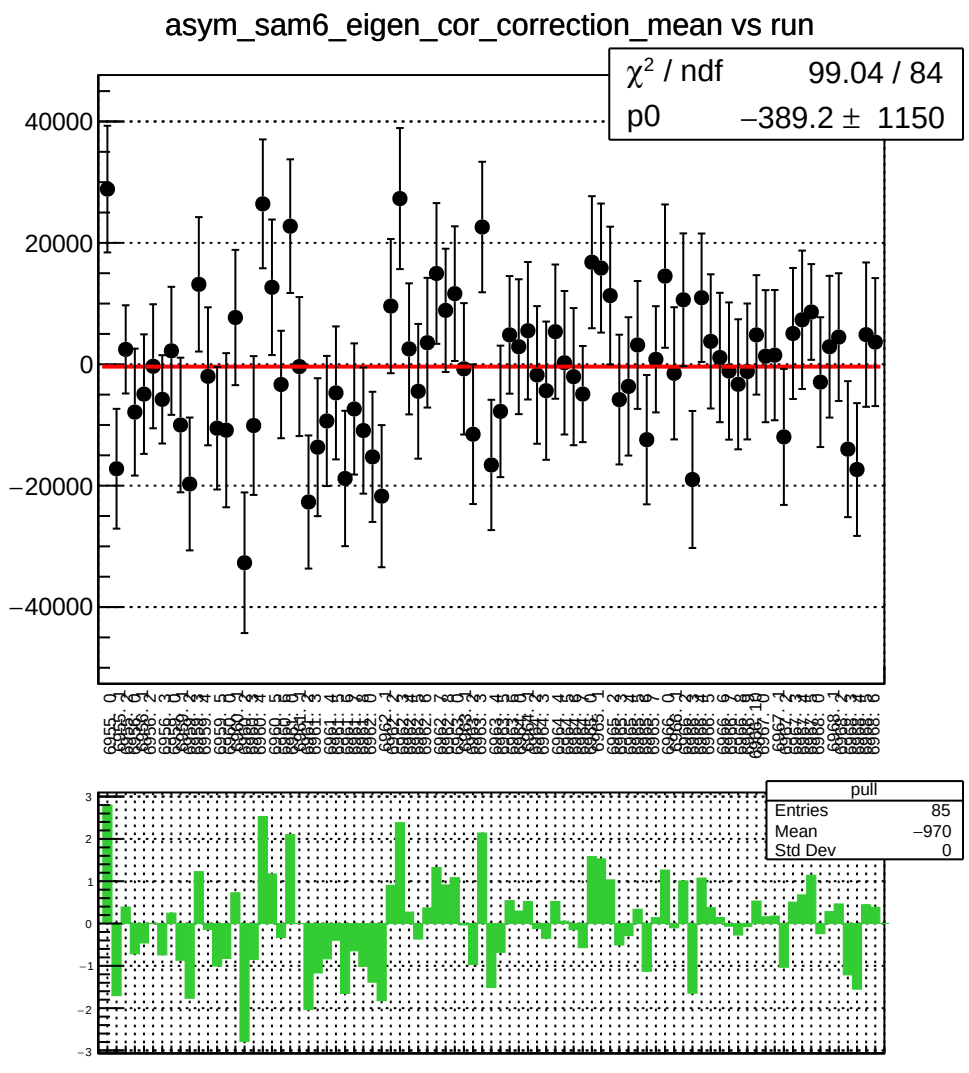

asym_sam6_cor_correction_mean vs run
χ² / ndf 99.04 / 84
p0 −389.2 ± 1150
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −970
Std Dev 0
3
2
1
0
−1
−2
−3

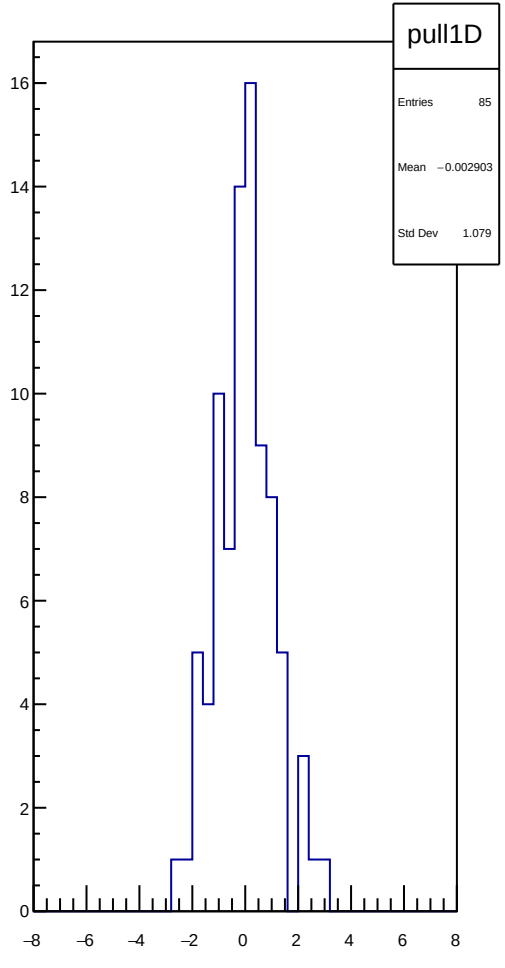

pull1D
Entries 85
Mean −0.002903
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

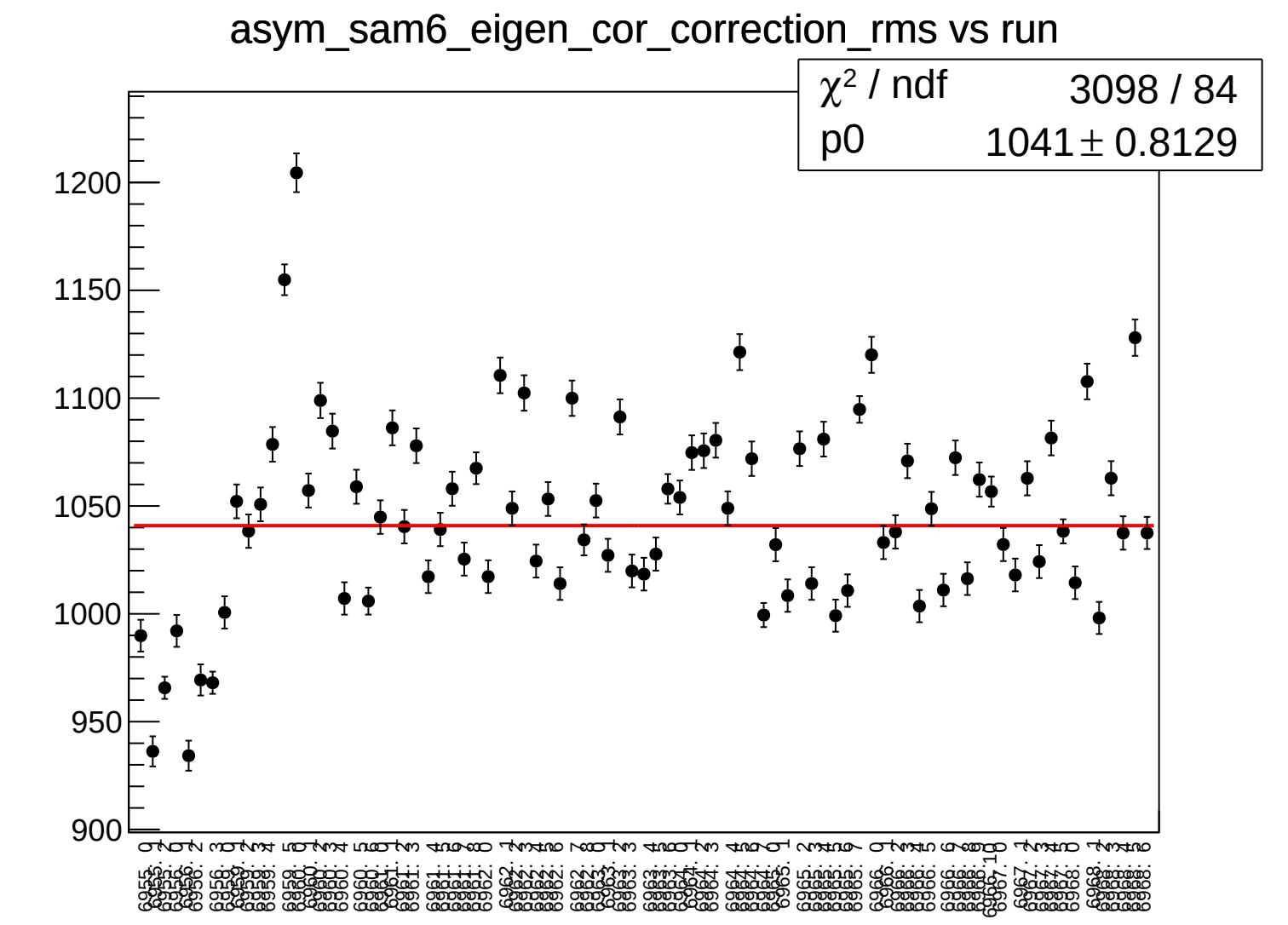

asym_sam6_cor_correction_rms vs run
χ² / ndf 3098 / 84
p0 1041 ± 0.8129
1200
1150
1100
1050
1000
950
900

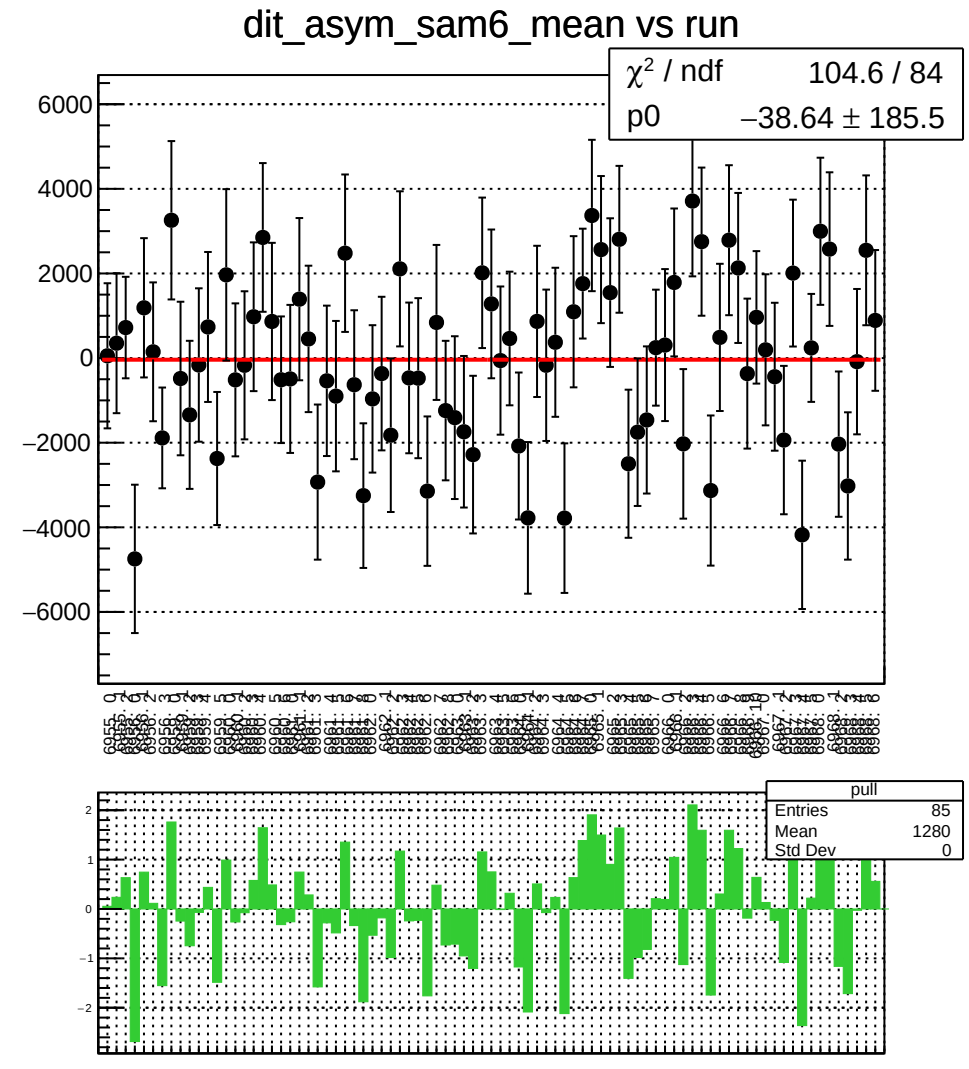

eigen_cor_asym_sam6_mean vs run
χ² / ndf 105.2 / 84
p0 −25.71± 172.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −373.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.001418
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

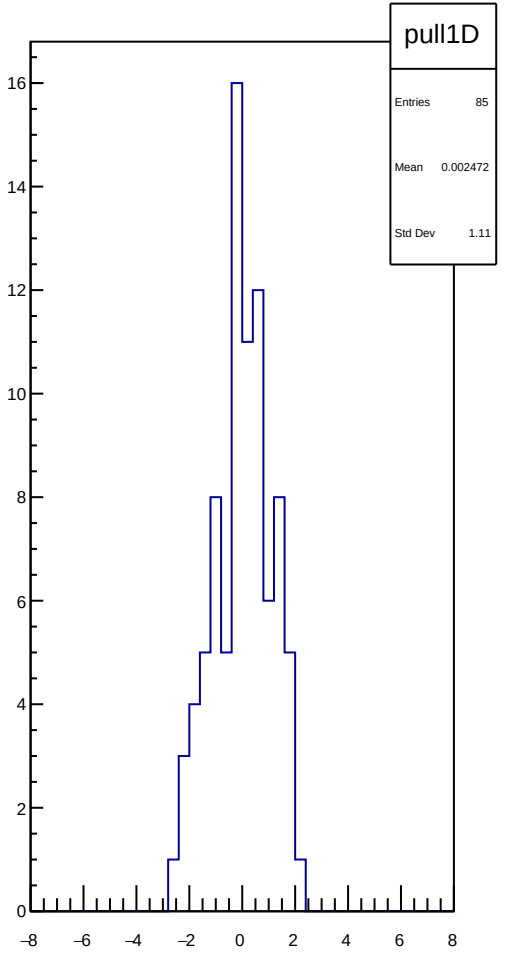

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1085 / 84
p0 156.6 ± 0.1222
165
160
155
150
145

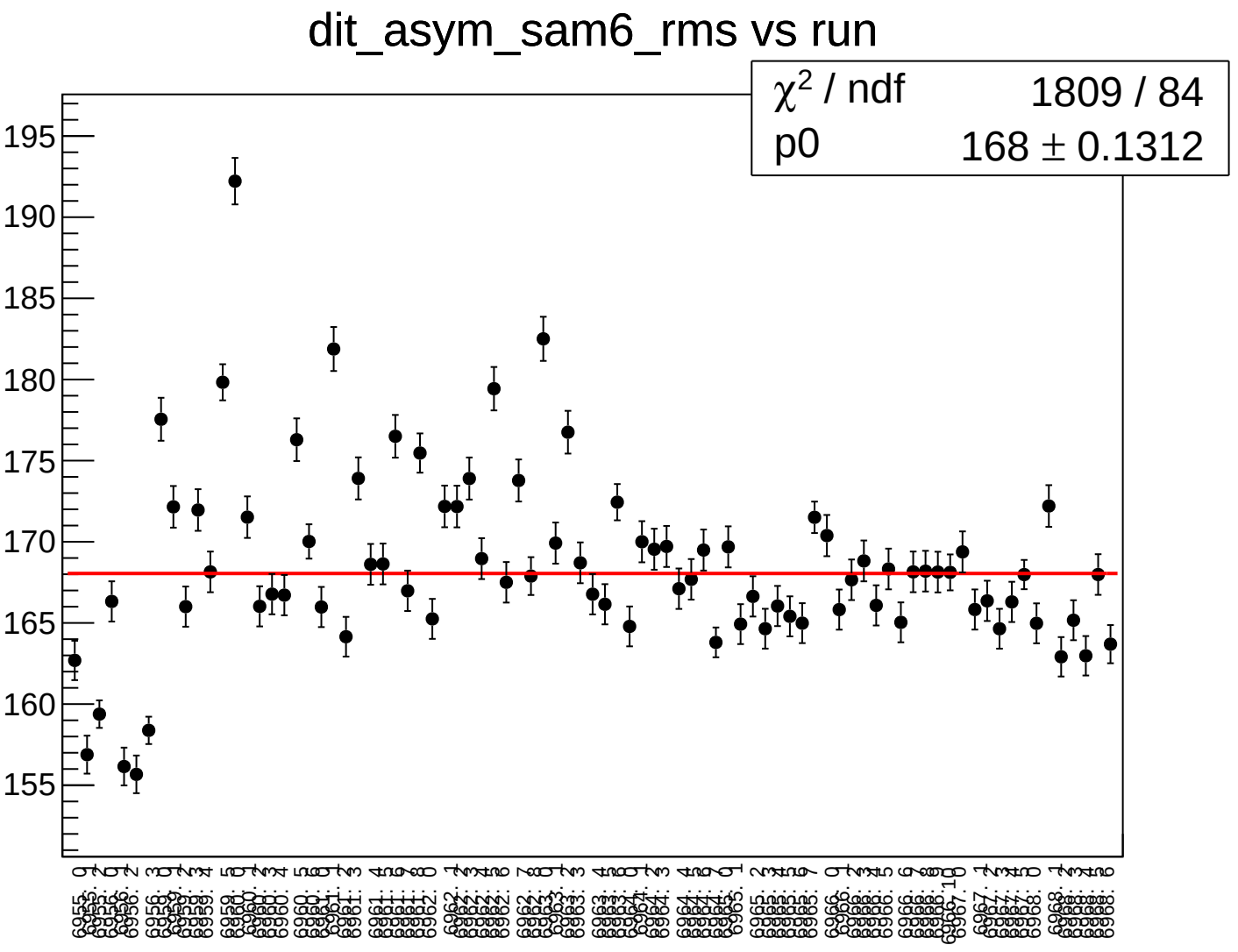

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 99.04 / 84
p0 −389.2 ± 1150
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −970
Std Dev 0
3
2
1
0
−1
−2
−3

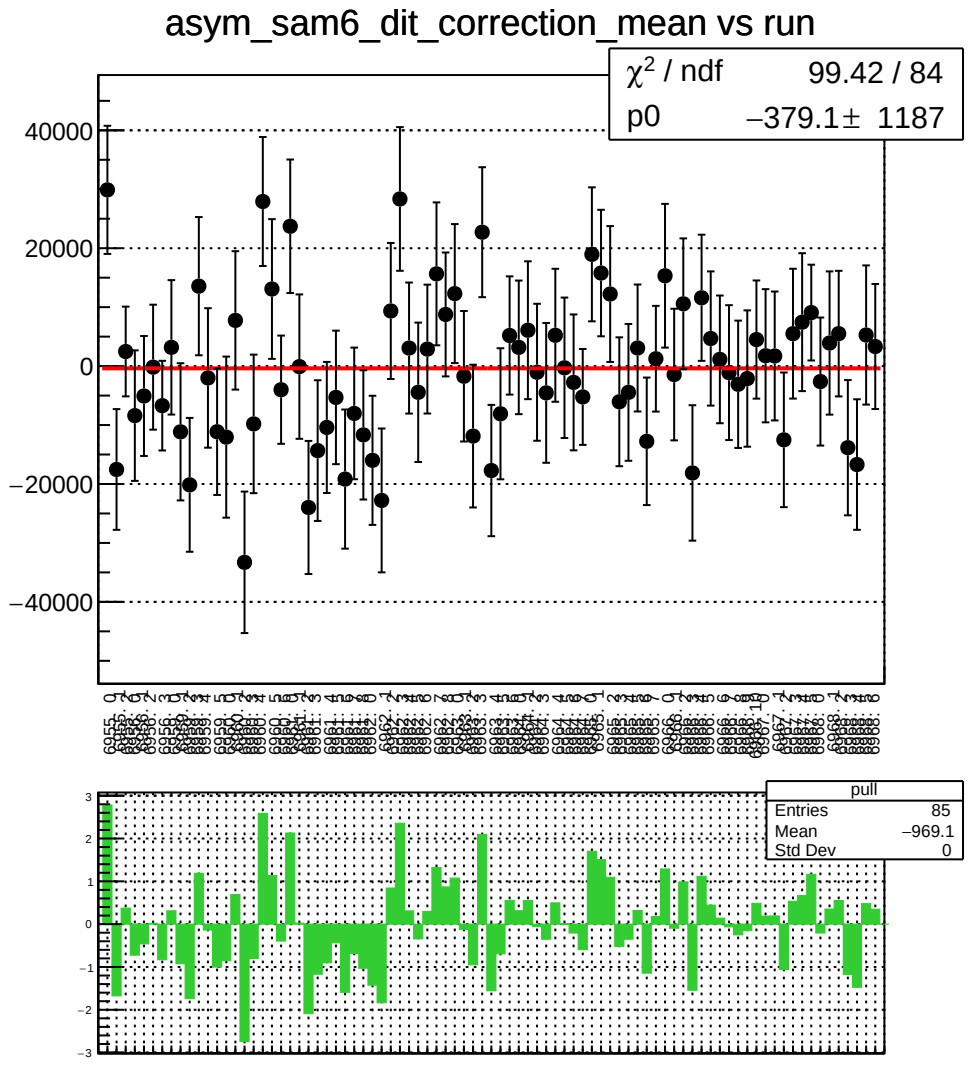

pull1D
Entries 85
Mean −0.002903
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

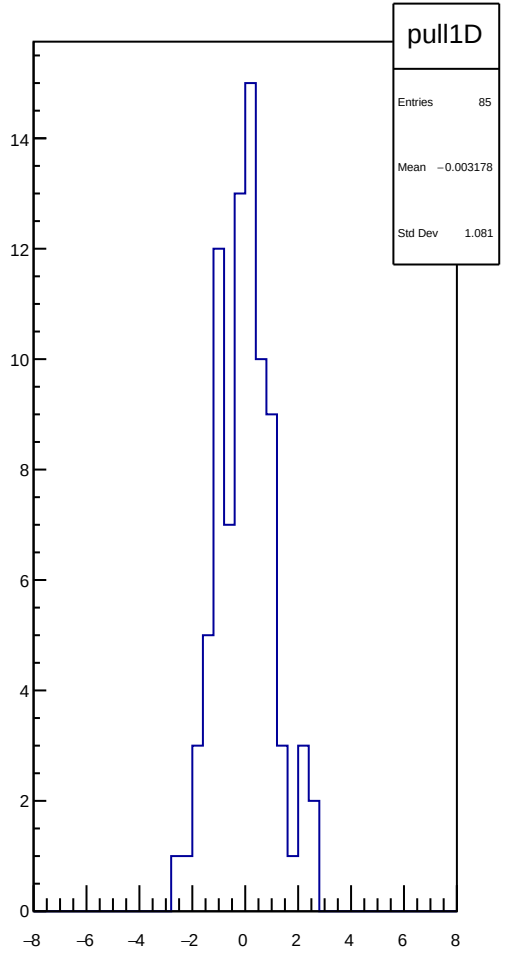

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 3098 / 84
p0 1041 ± 0.8129
1200
1150
1100
1050
1000
950
900

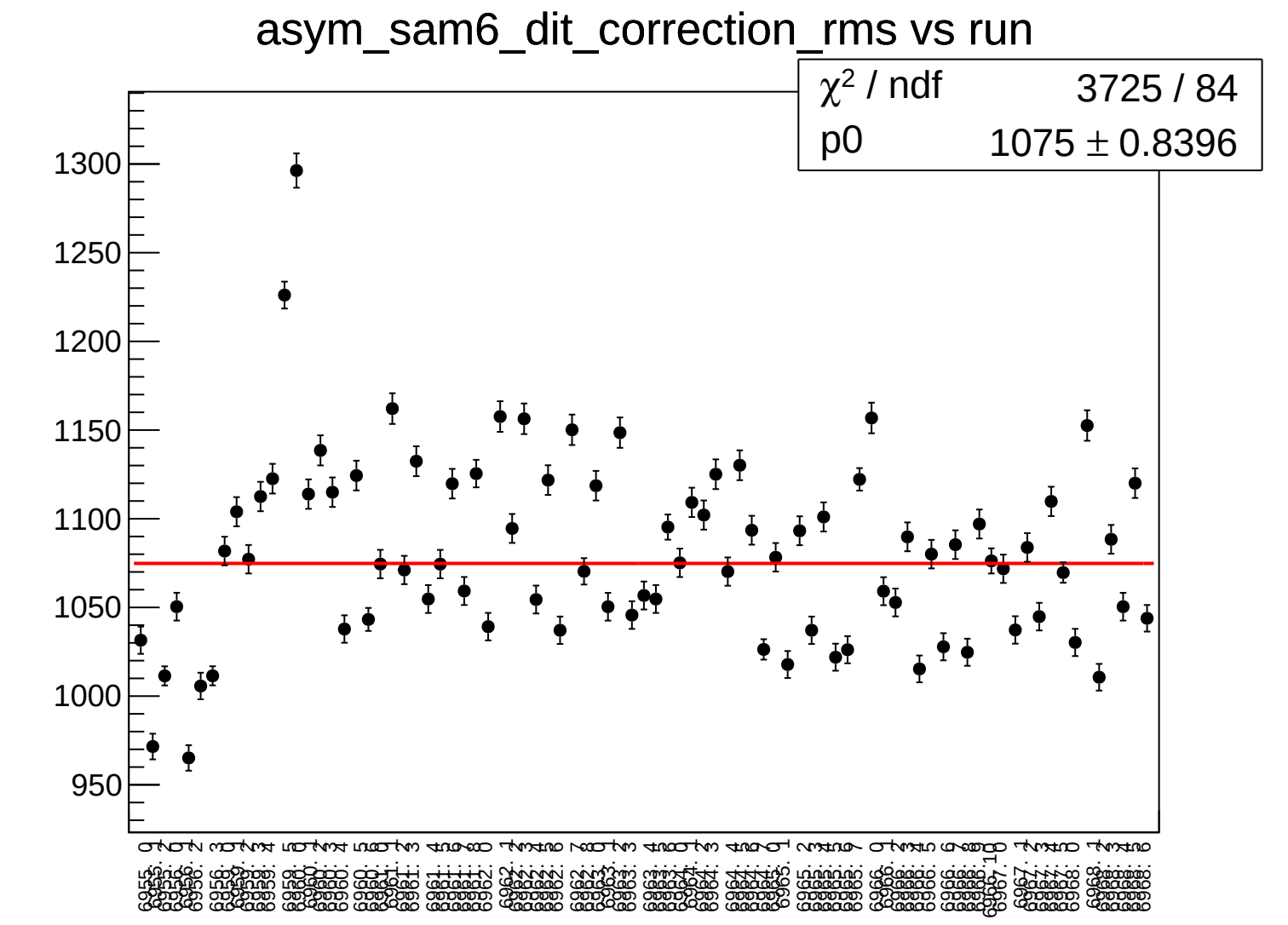

dit_asym_sam6_mean vs run
χ² / ndf 104.6 / 84
p0 −38.64 ± 185.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 1280
Std Dev 0
2
1
0
−1
−2

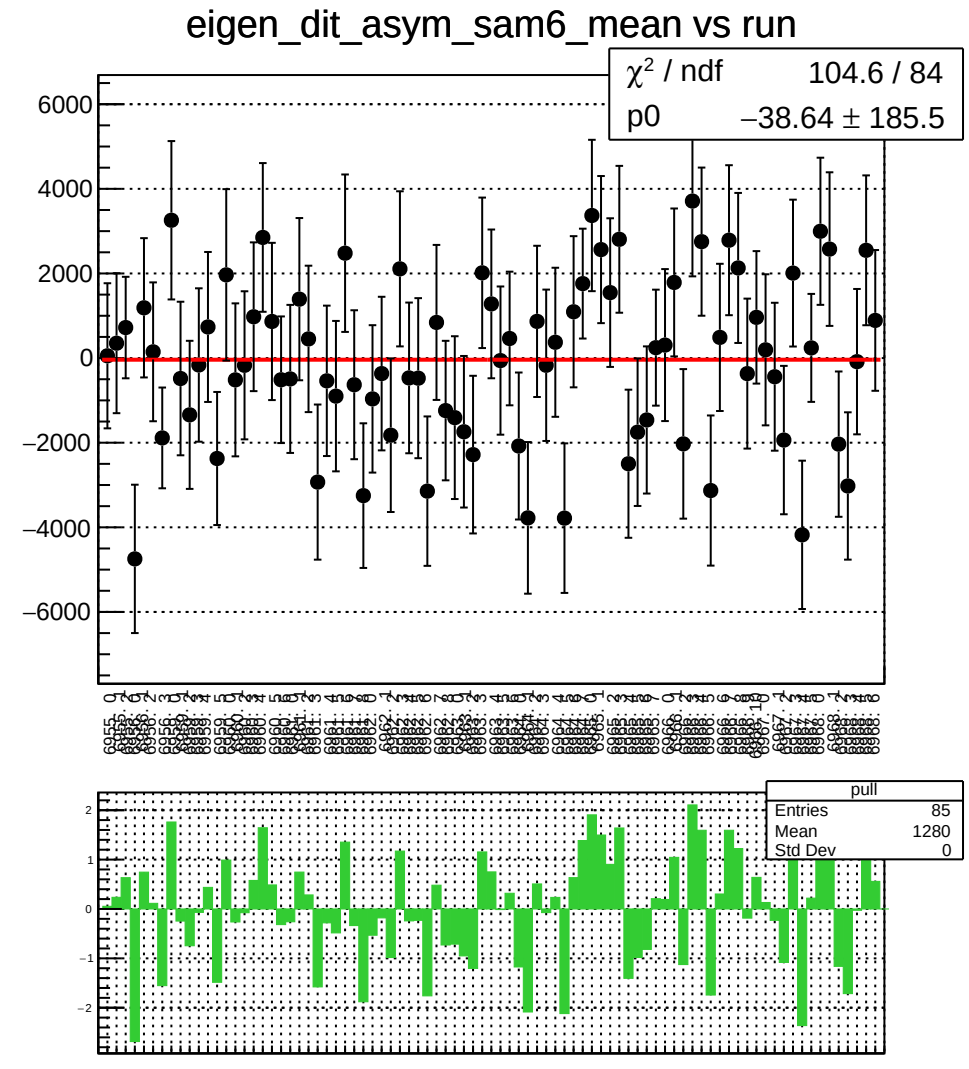

pull1D
Entries 85
Mean 0.002472
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

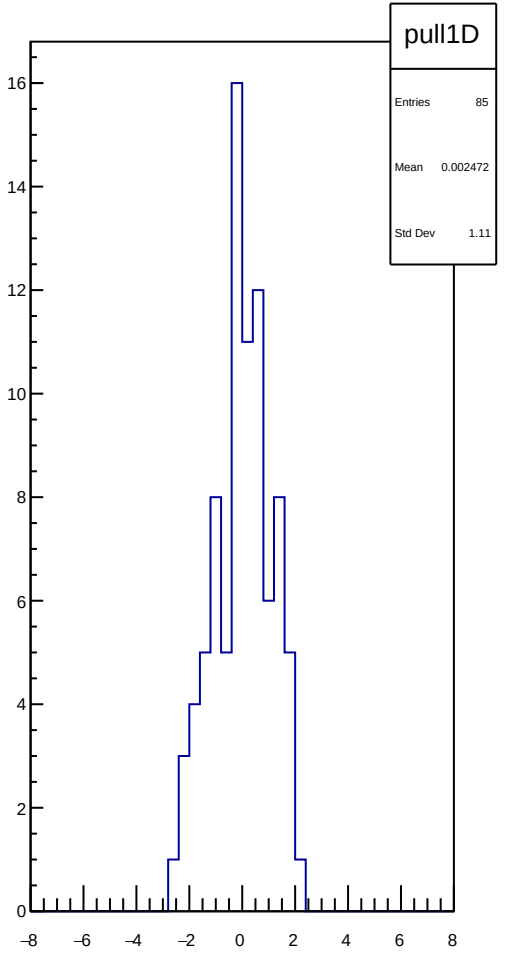

dit_asym_sam6_rms vs run
$\chi^2$ / ndf 1809 / 84
p0 168 ± 0.1312
195
190
185
180
175
170
165
160
155

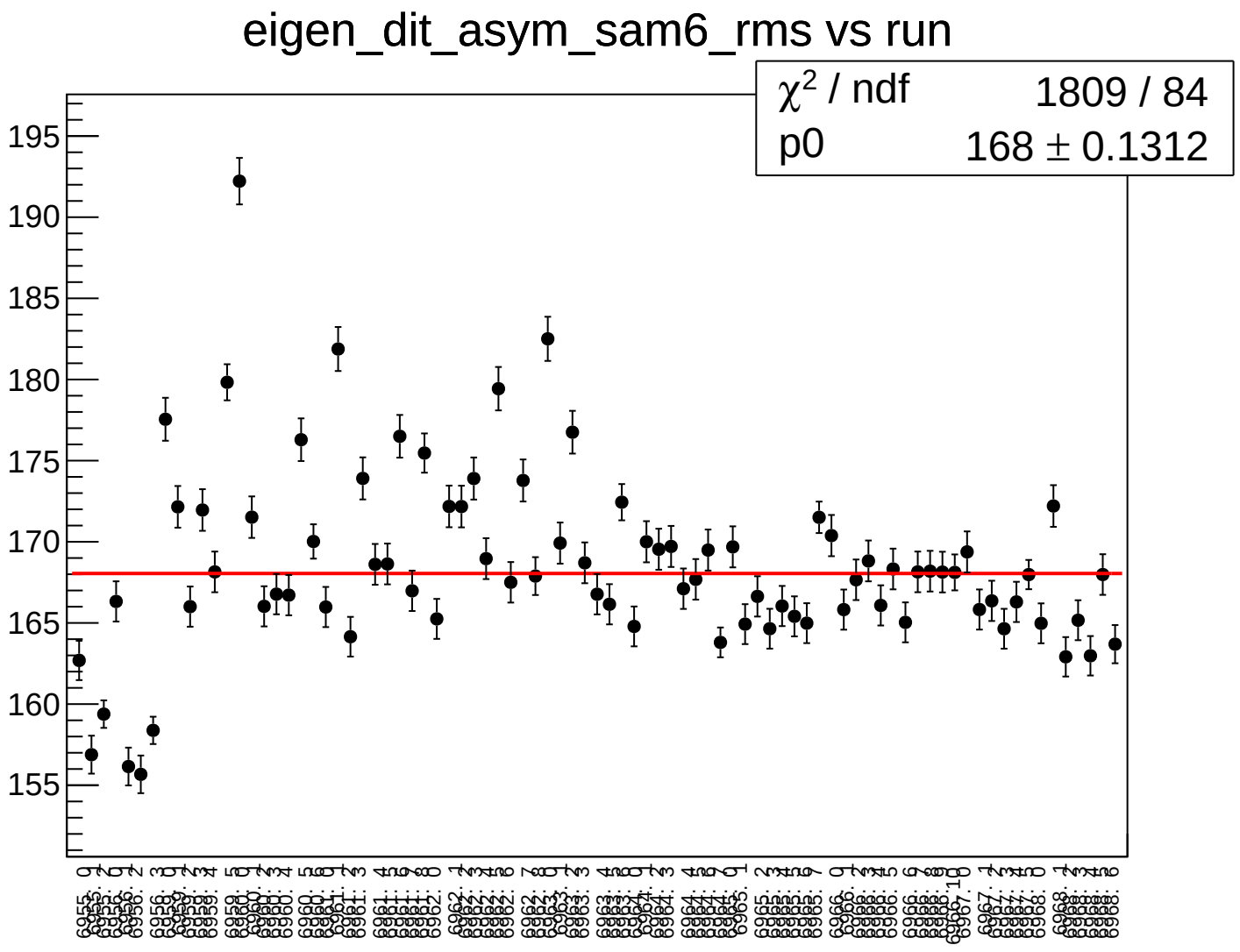

asym_sam6_dit_correction_mean vs run
χ² / ndf 99.42 / 84
p0 −379.1± 1187
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −969.1
Std Dev 0
3
2
1
0
−1
−2
−3

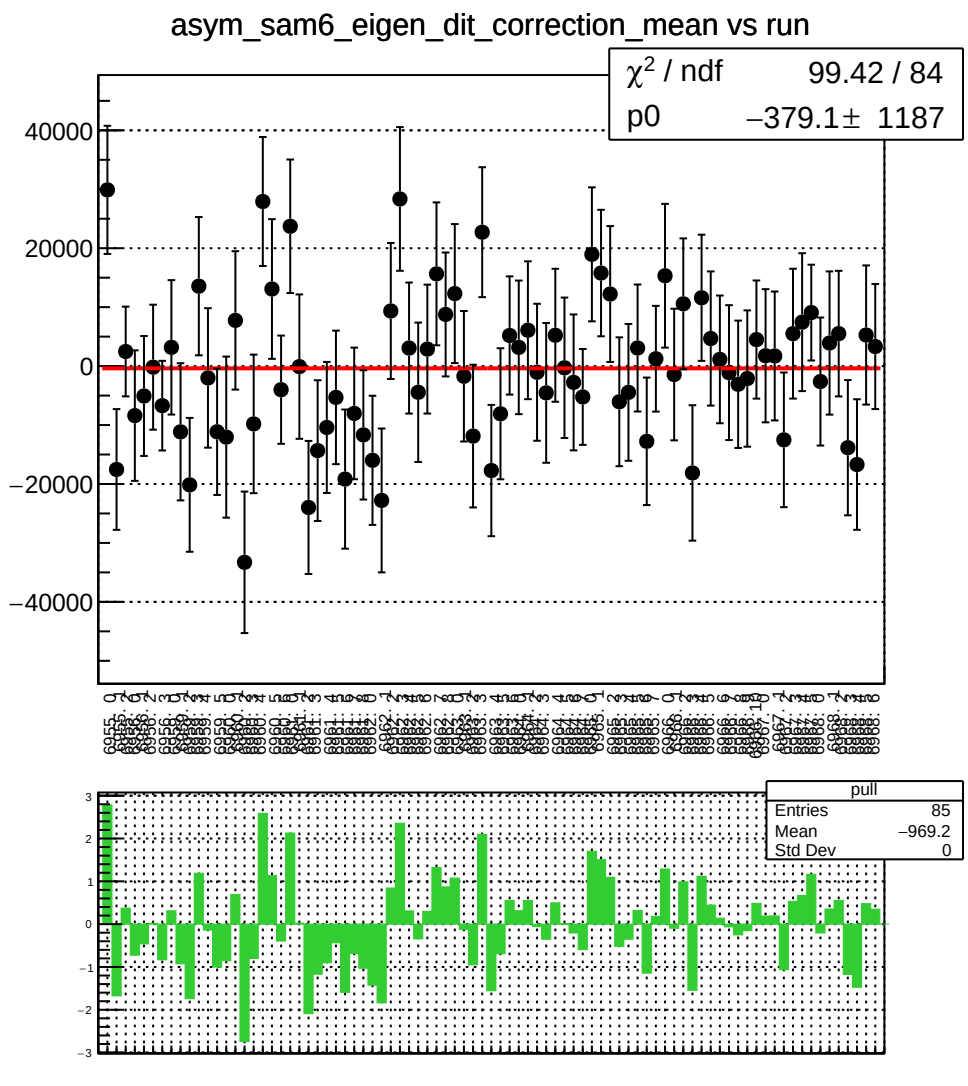

pull1D
Entries 85
Mean −0.003178
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

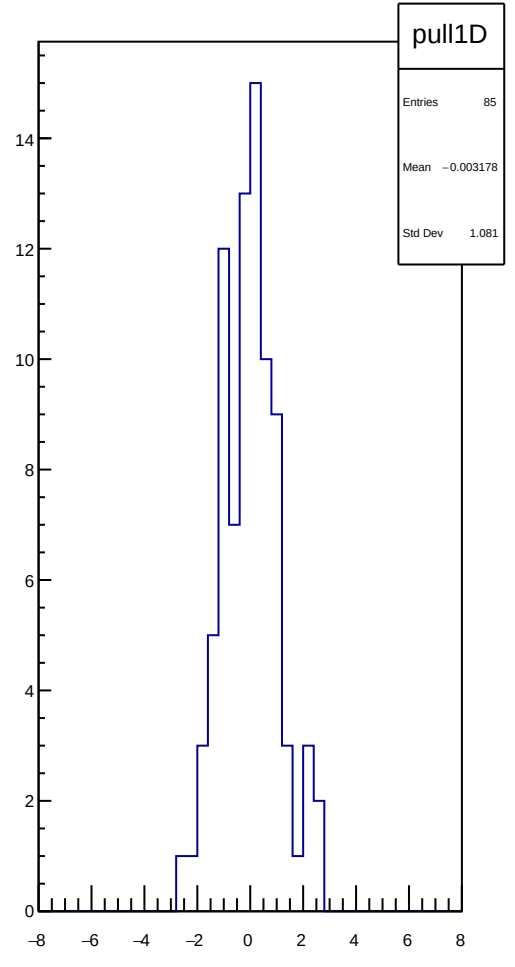

asym_sam6_dit_correction_rms vs run
χ² / ndf 3725 / 84
p0 1075 ± 0.8396
1300
1250
1200
1150
1100
1050
1000
950

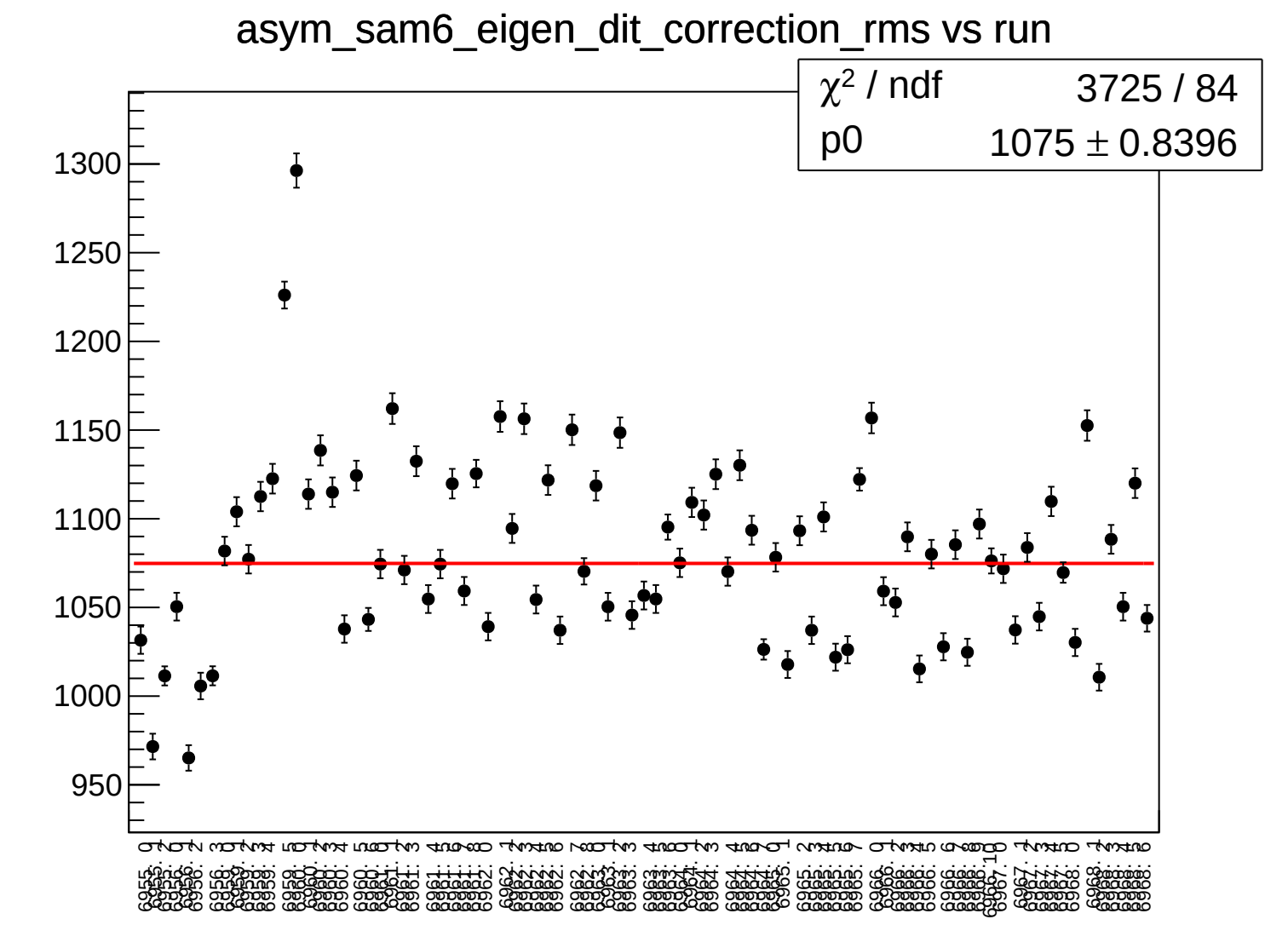

eigen_dit_asym_sam6_mean vs run
χ² / ndf 104.6 / 84
p0 −38.64 ± 185.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 1280
Std Dev 0
2
1
0
−1
−2

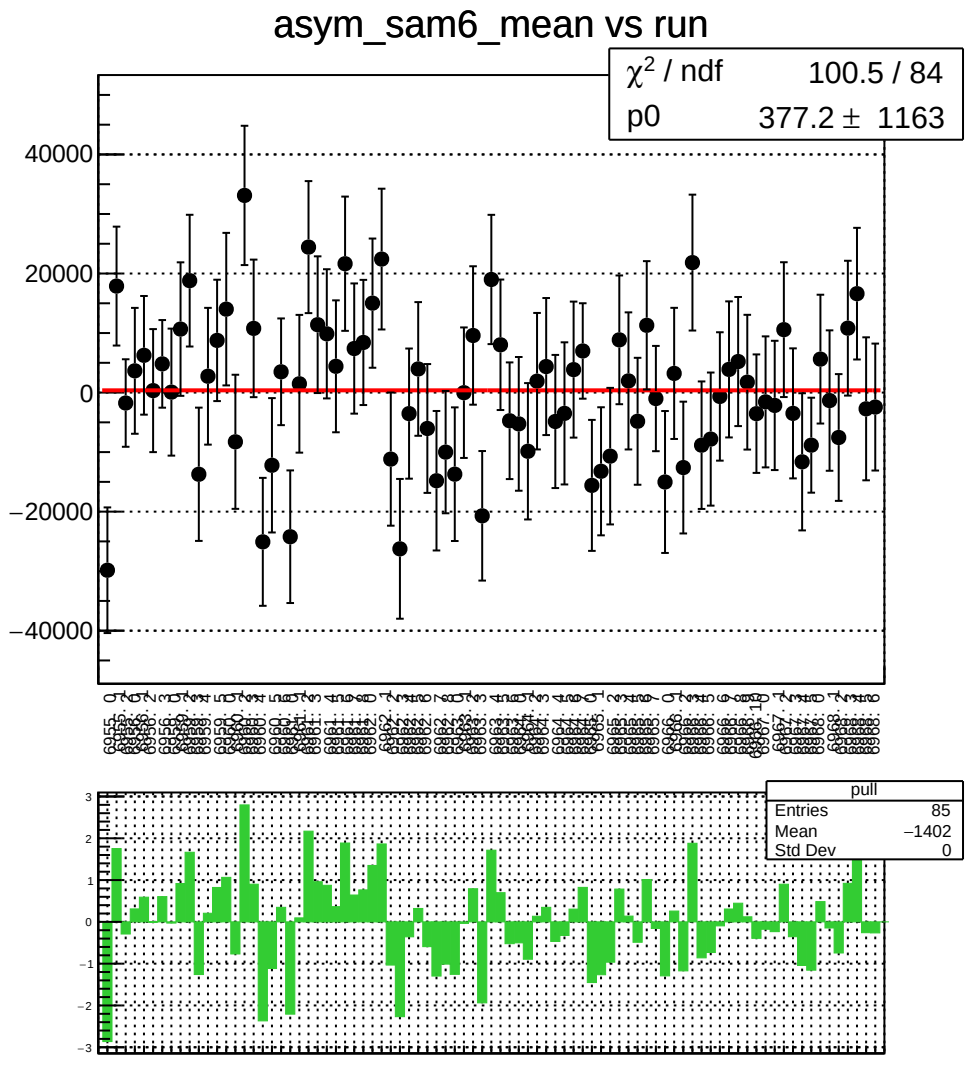

pull1D
Entries 85
Mean 0.002472
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

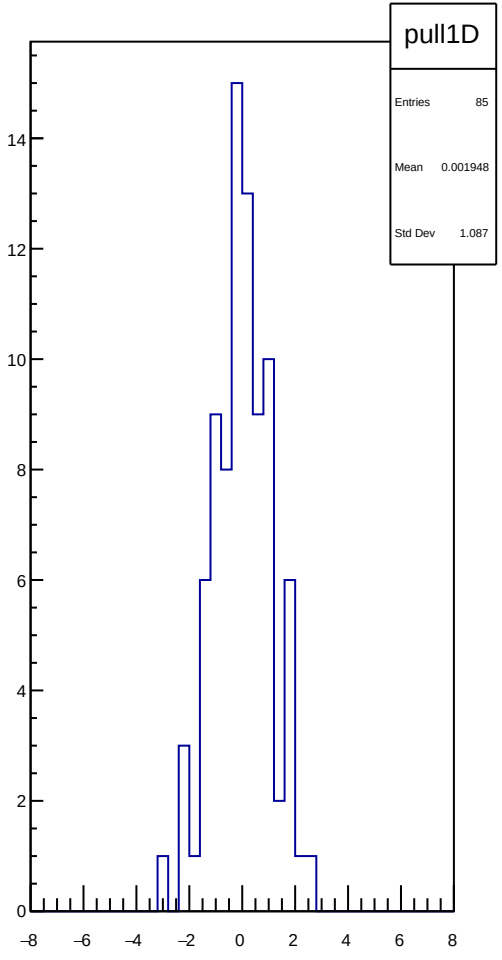

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1809 / 84
p0 168 ± 0.1312
195
190
185
180
175
170
165
160
155

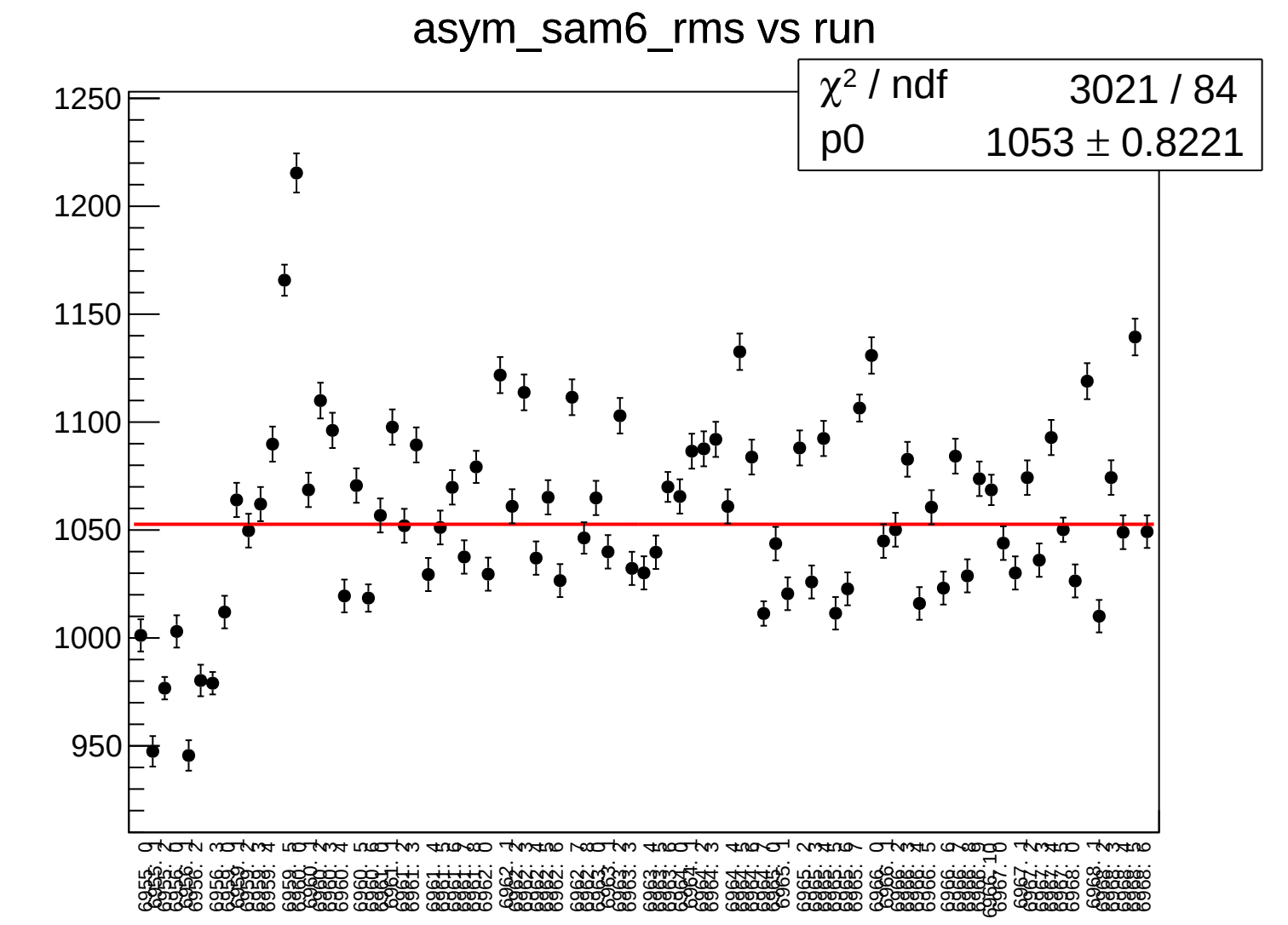

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 99.42 / 84
p0 −379.1± 1187
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −969.2
Std Dev 0
3
2
1
0
−1
−2
−3

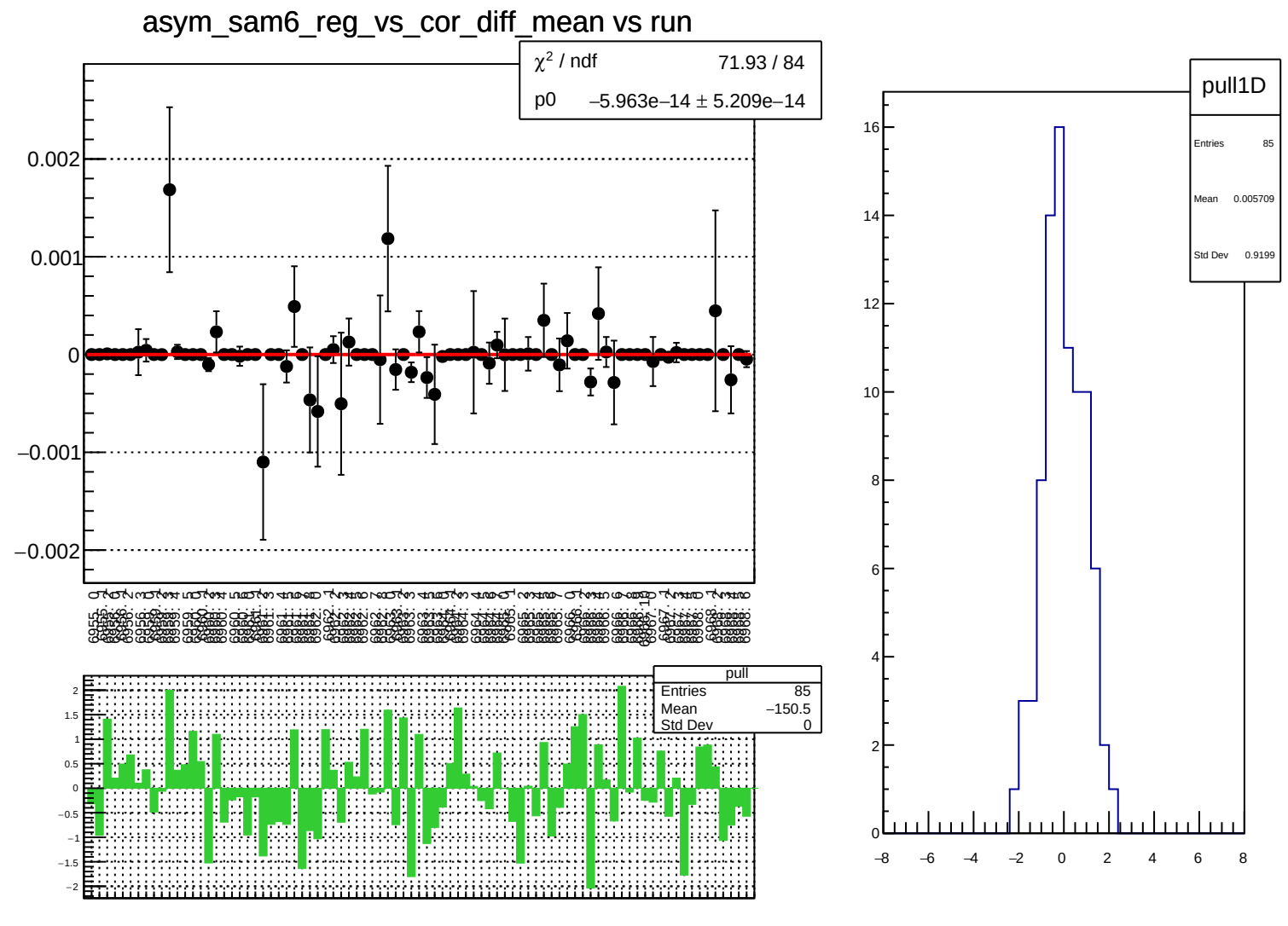

pull1D
Entries 85
Mean −0.003178
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

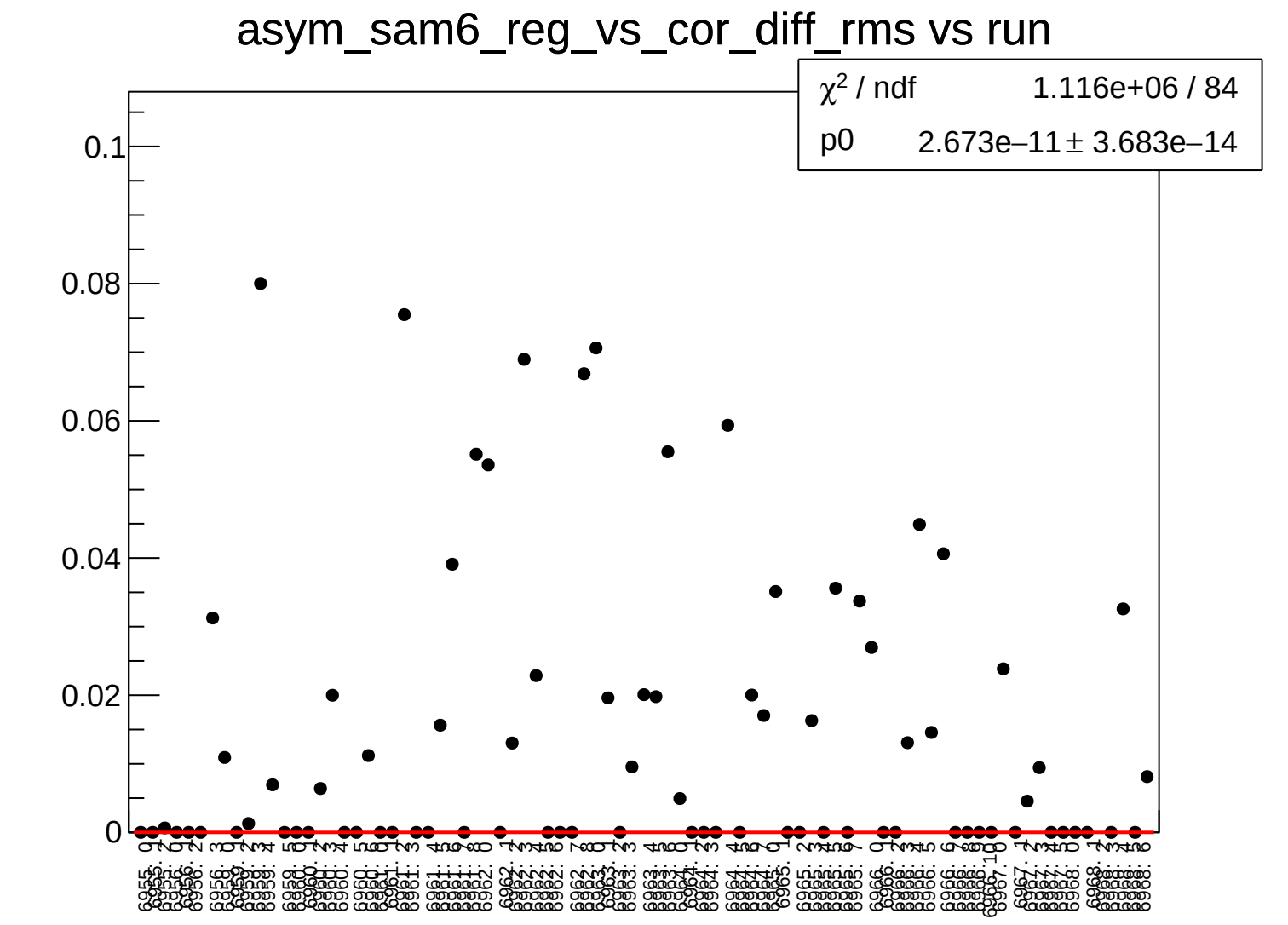

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 3725 / 84
p0 1075 ± 0.8396
1300
1250
1200
1150
1100
1050
1000
950

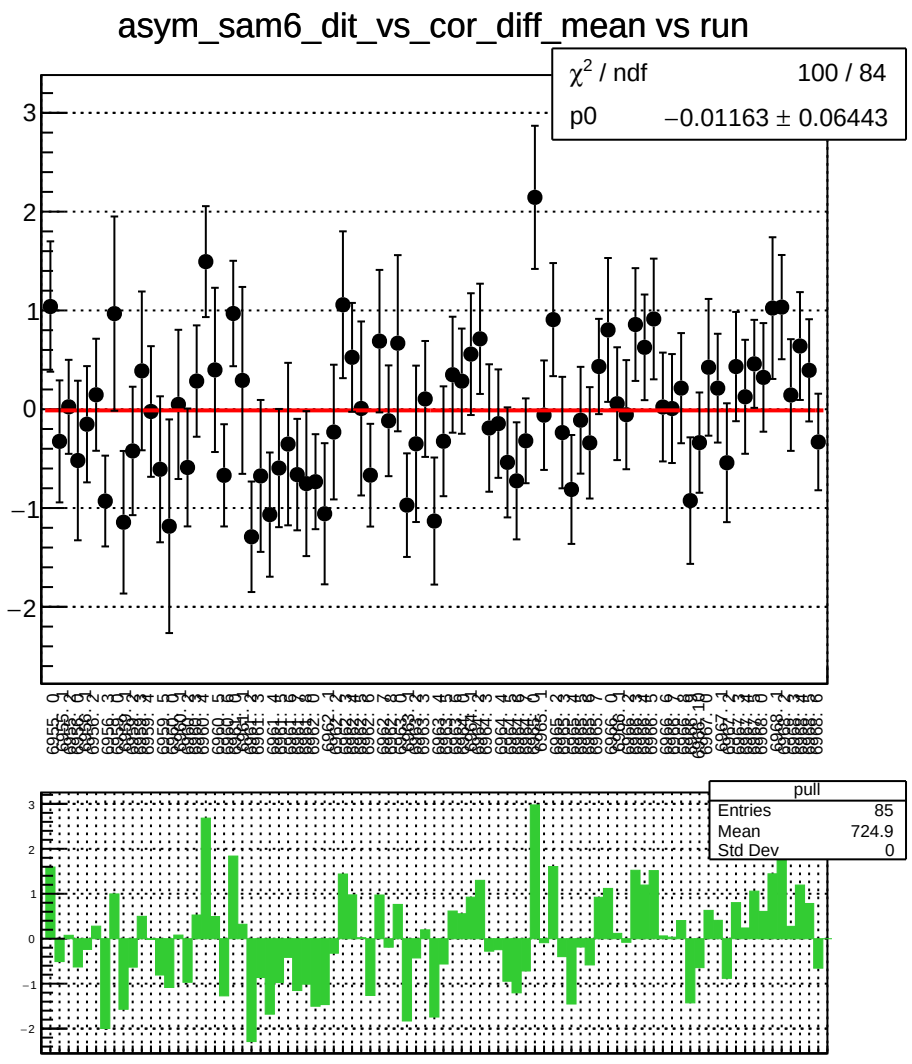

asym_sam6_mean vs run
χ² / ndf 100.5 / 84
p0 377.2 ± 1163
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1402
Std Dev 0
3
2
1
0
−1
−2
−3

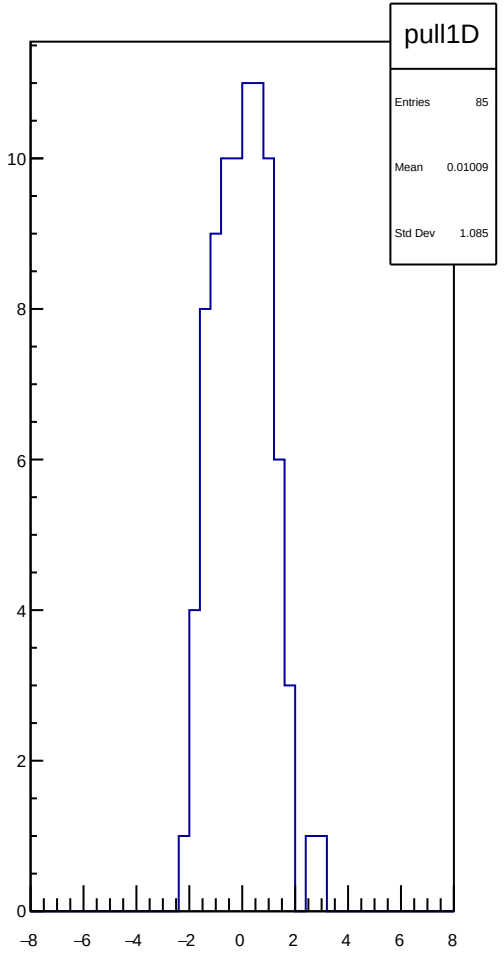

pull1D
Entries 85
Mean 0.001948
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

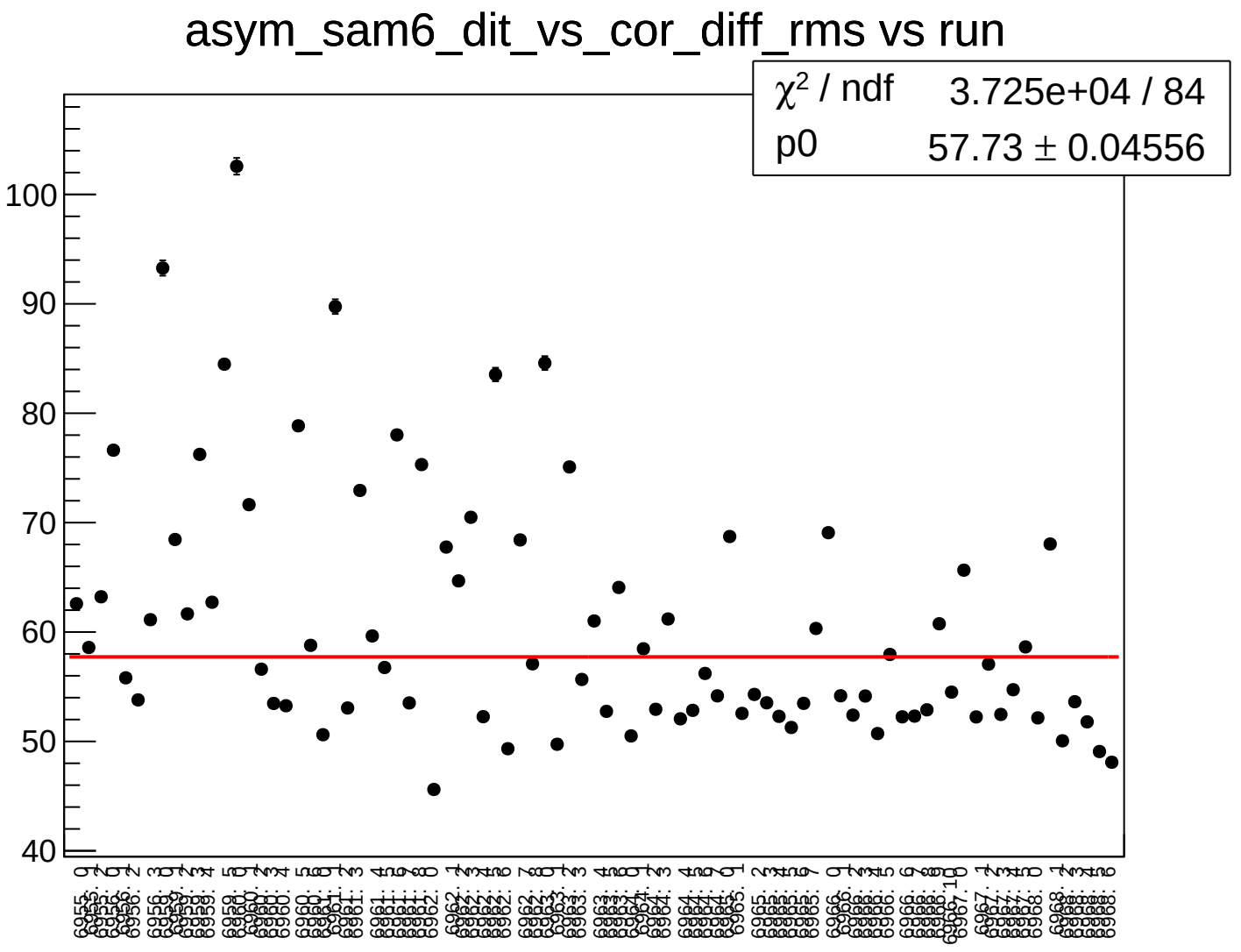

asym_sam6_rms vs run
χ² / ndf 3021 / 84
p0 1053 ± 0.8221
1250
1200
1150
1100
1050
1000
950

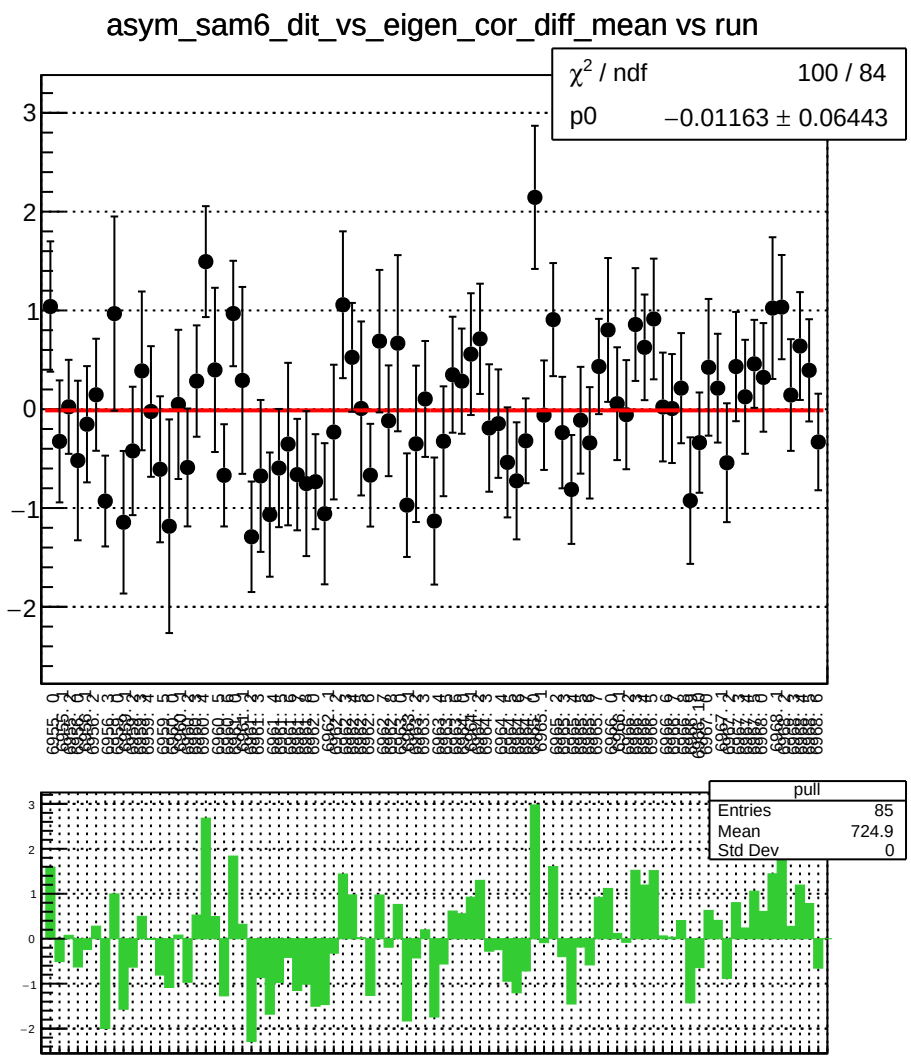

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 71.93 / 84
p0 −5.963e−14 ± 5.209e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 85
Mean −150.5
Std Dev 0
pull1D
Entries 85
Mean 0.005709
Std Dev 0.9199

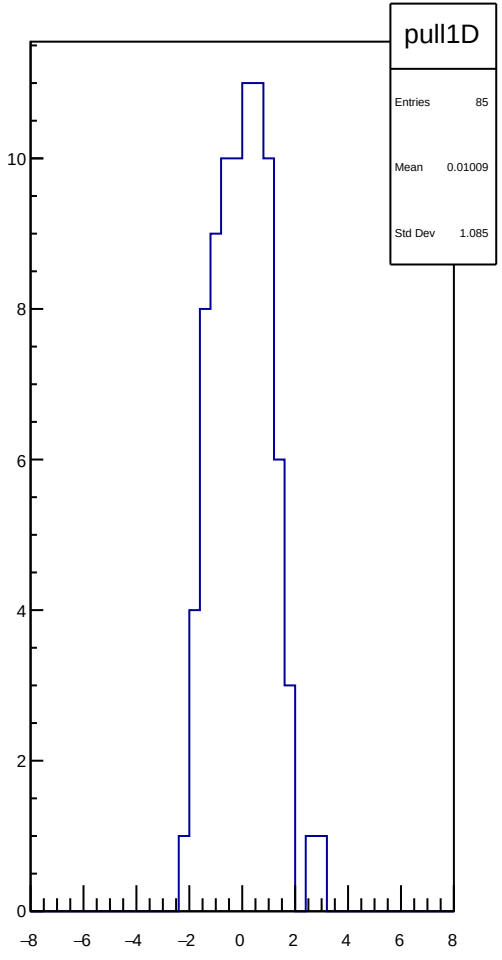

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.116e+06 / 84
p0 2.673e−11 ± 3.683e−14
0.1
0.08
0.06
0.04
0.02
0

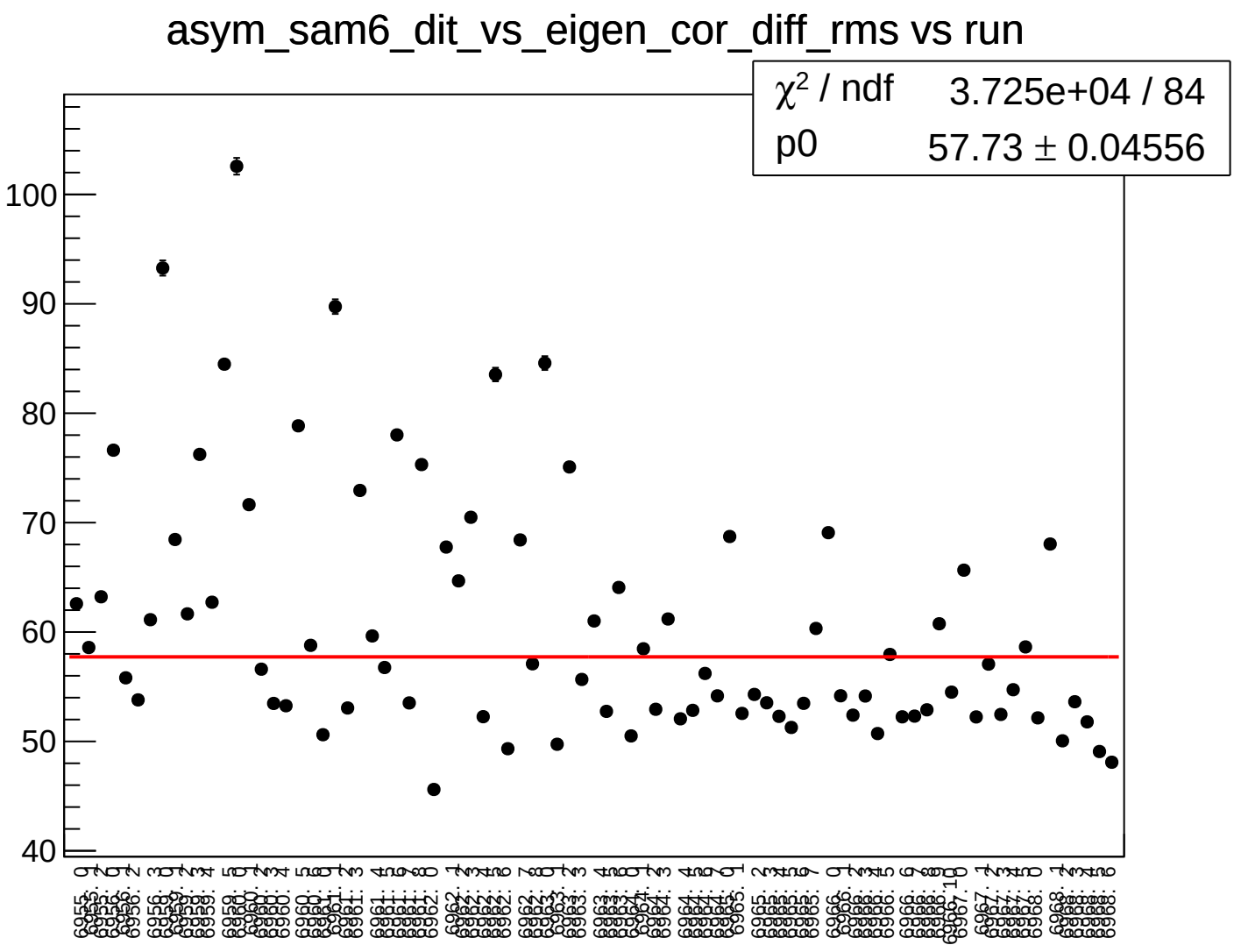

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 100 / 84
p0 −0.01163 ± 0.06443
pull
Entries 85
Mean 724.9
Std Dev 0

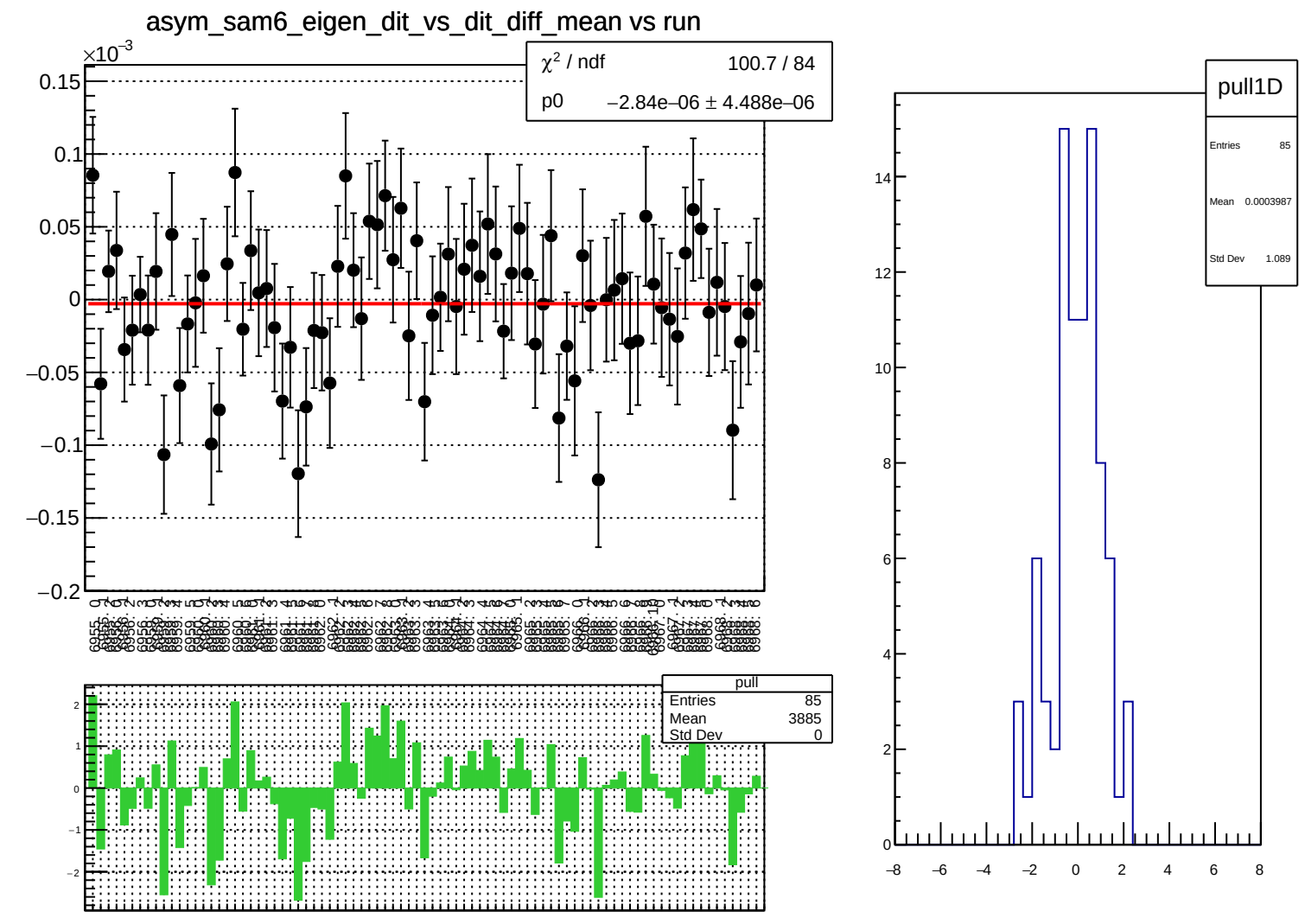

pull1D
Entries 85
Mean 0.01009
Std Dev 1.085


asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 3.725e+04 / 84
p0 57.73 ± 0.04556
100
90
80
70
60
50
40

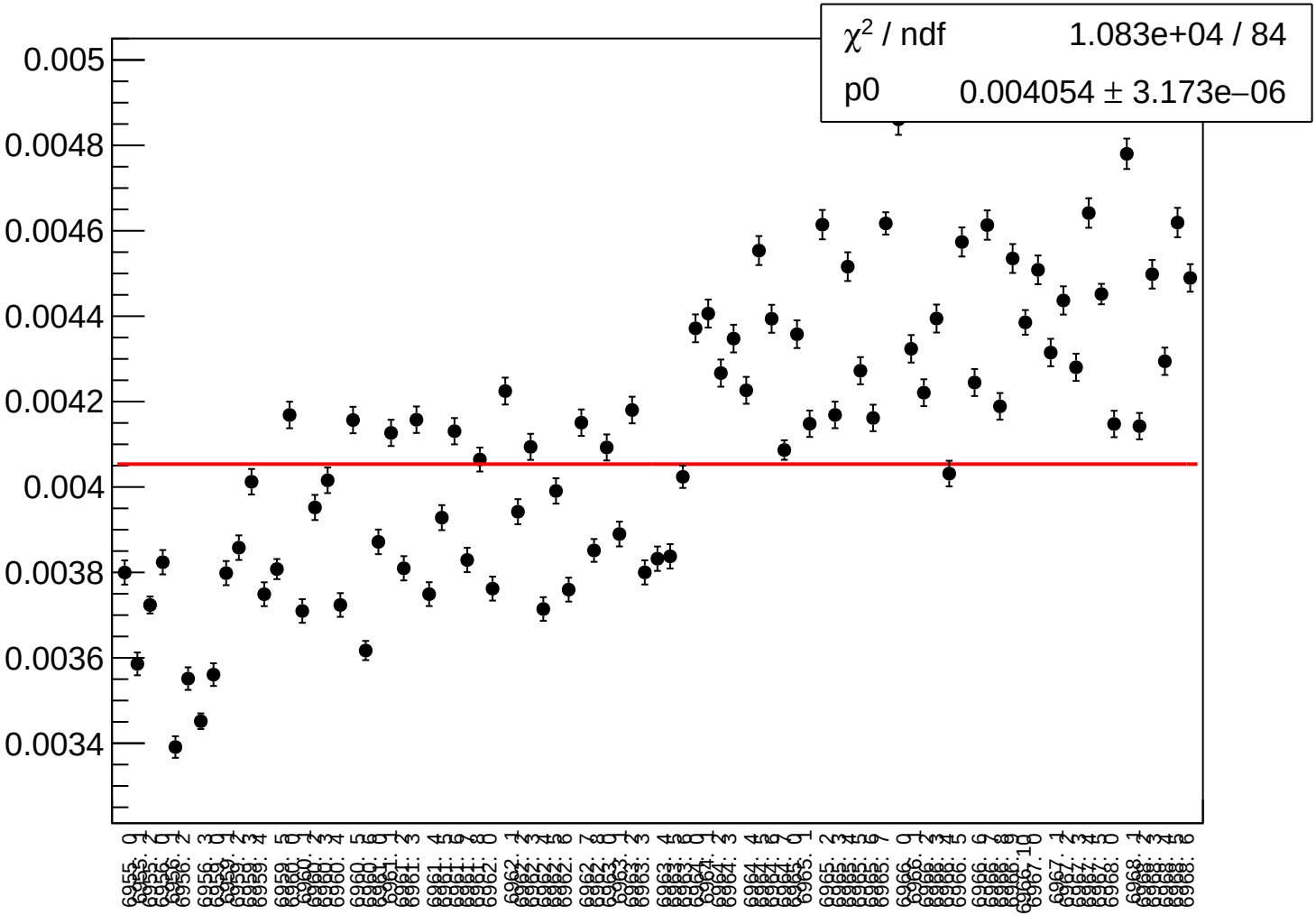

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100 / 84
p0 −0.01163 ± 0.06443
pull
Entries 85
Mean 724.9
Std Dev 0

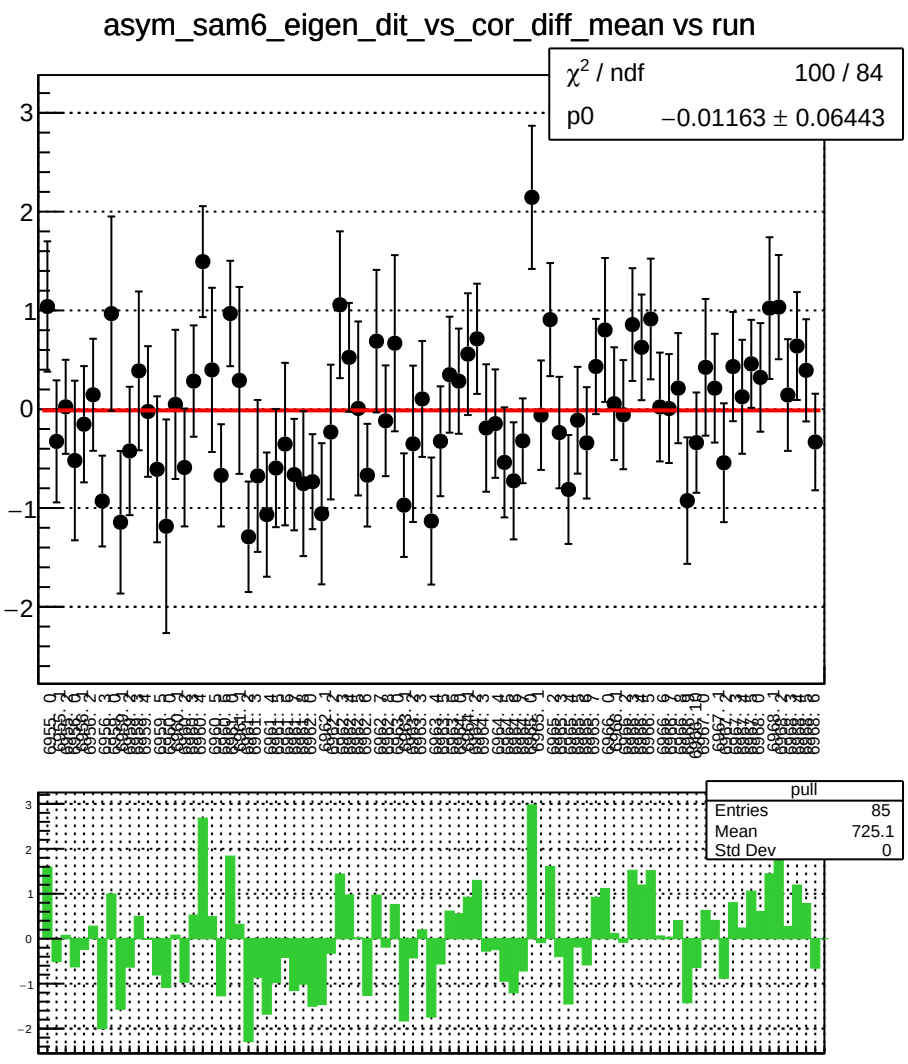

pull1D
Entries 85
Mean 0.01009
Std Dev 1.085

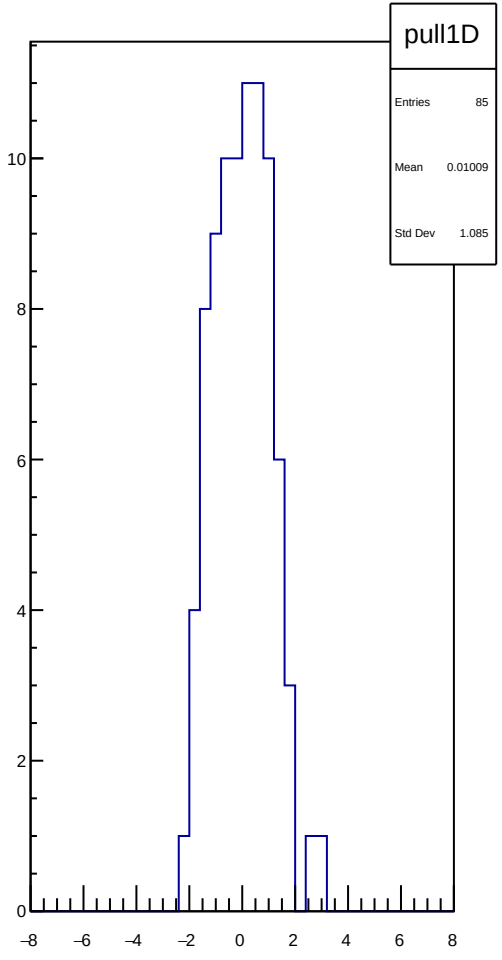

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.725e+04 / 84
p0 57.73 ± 0.04556
100
90
80
70
60
50
40

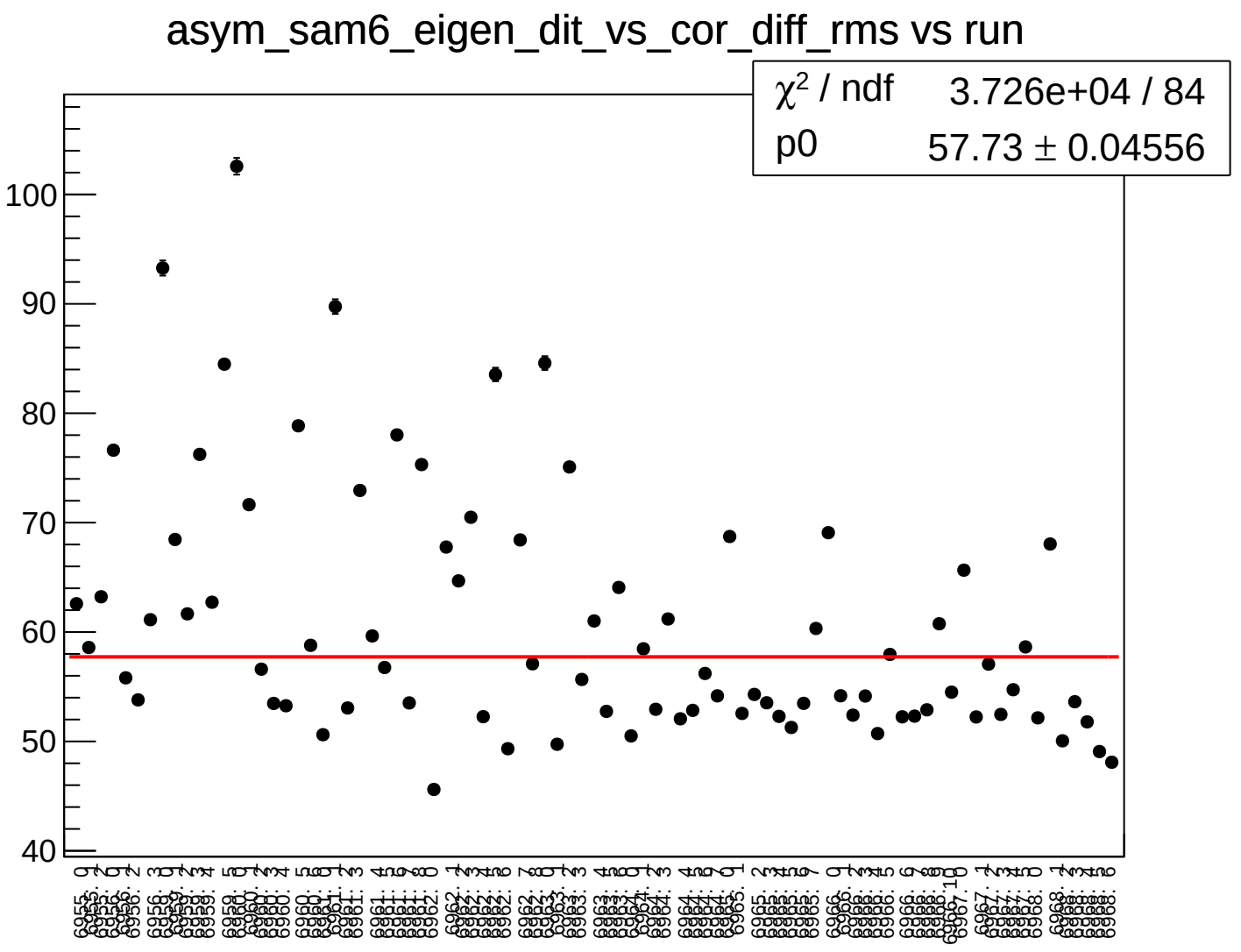

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 84
p0 −2.84e−06 ± 4.488e−06
pull
Entries 85
Mean 3885
Std Dev 0
pull1D
Entries 85
Mean 0.0003987
Std Dev 1.089

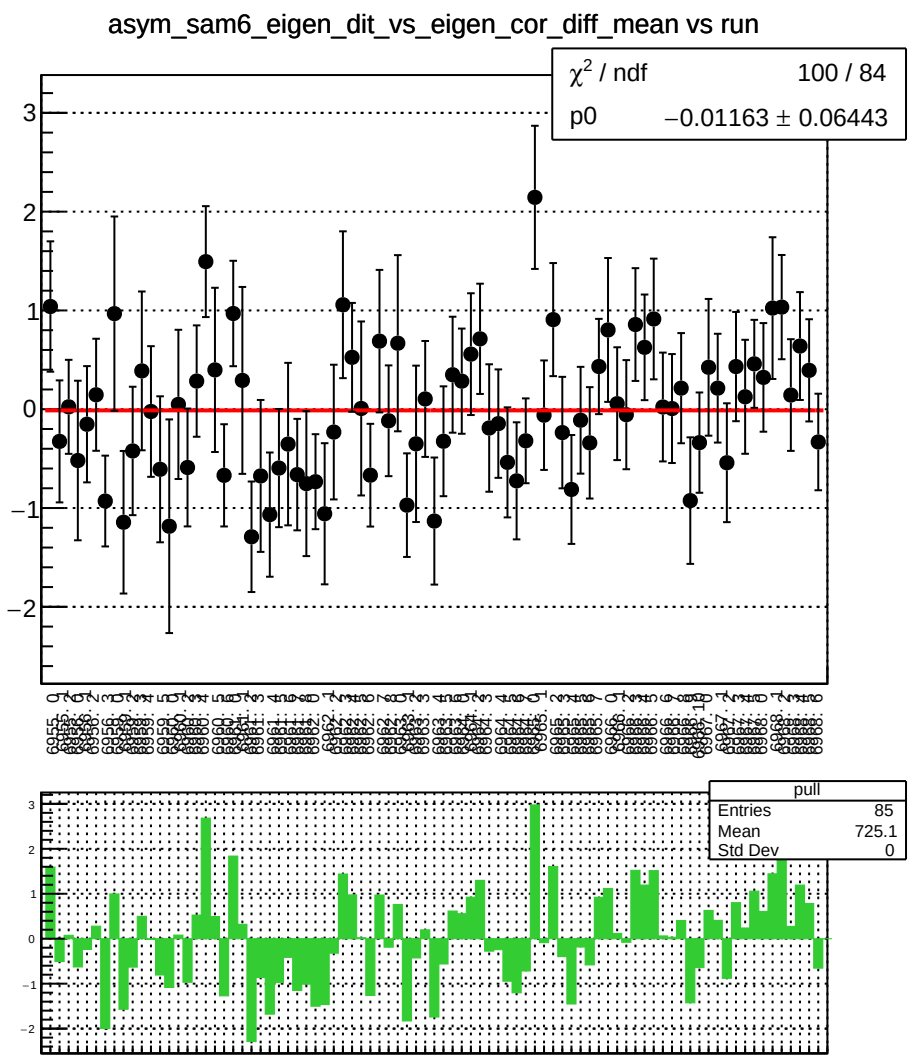
# asym_sam6_eigen_dit_vs_dit_diff_rms vs run

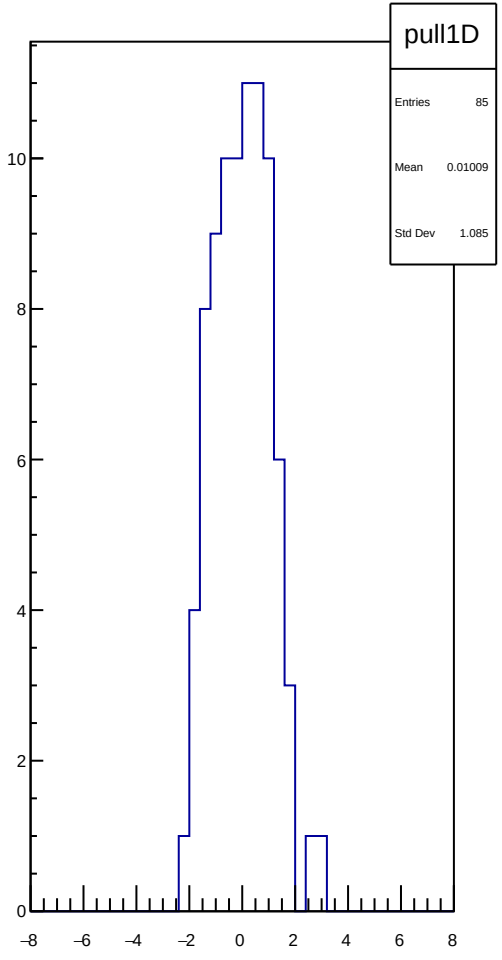


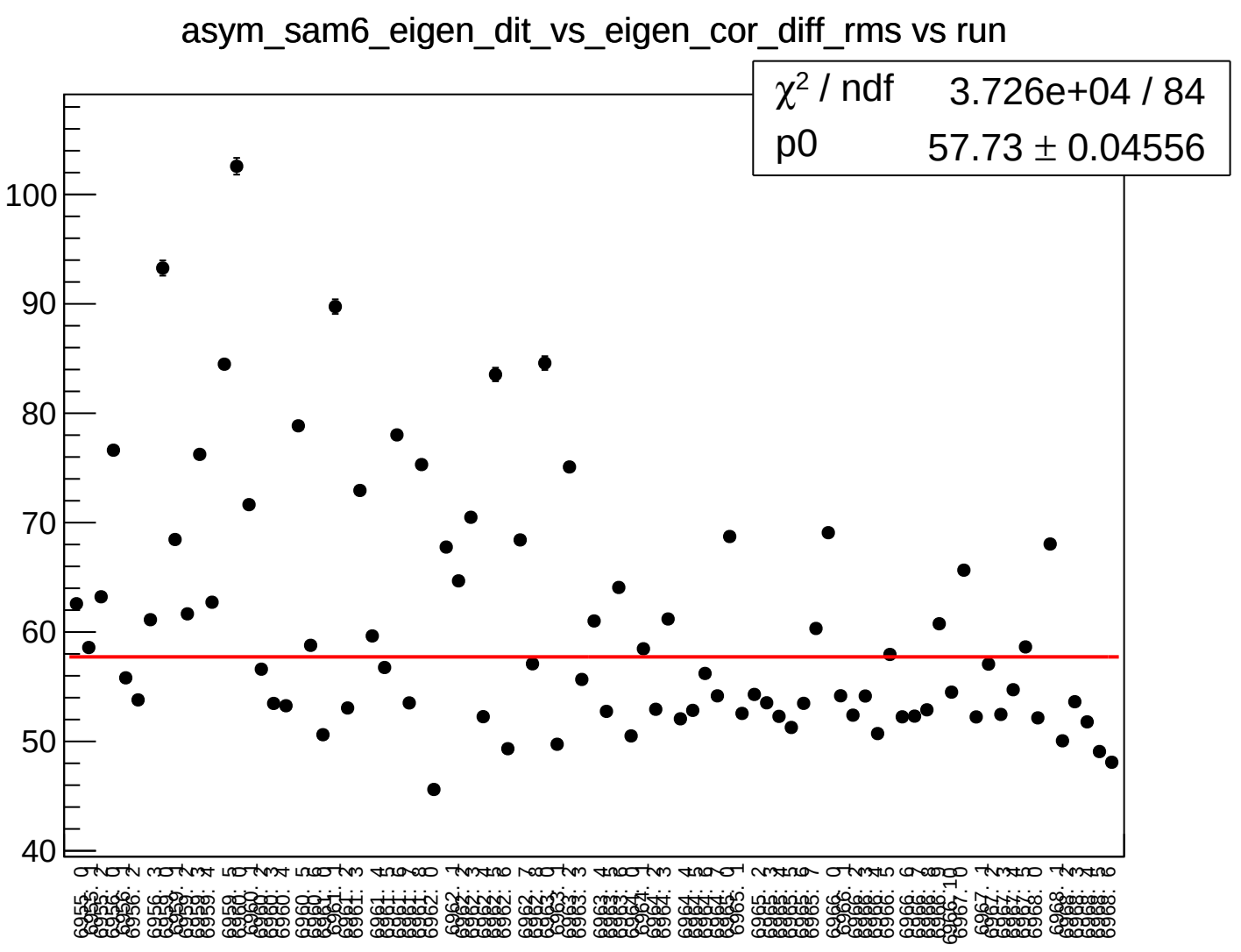

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100 / 84
p0 −0.01163 ± 0.06443
pull
Entries 85
Mean 725.1
Std Dev 0

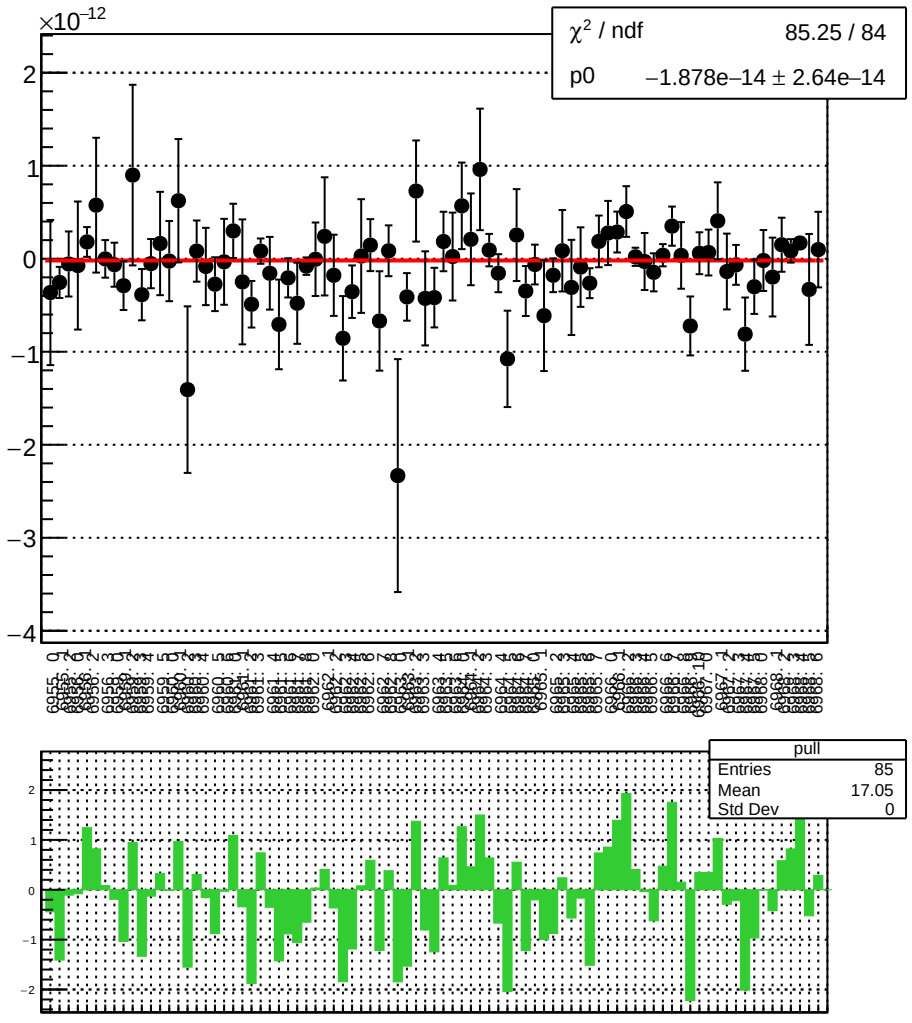

pull1D
Entries 85
Mean 0.01009
Std Dev 1.085

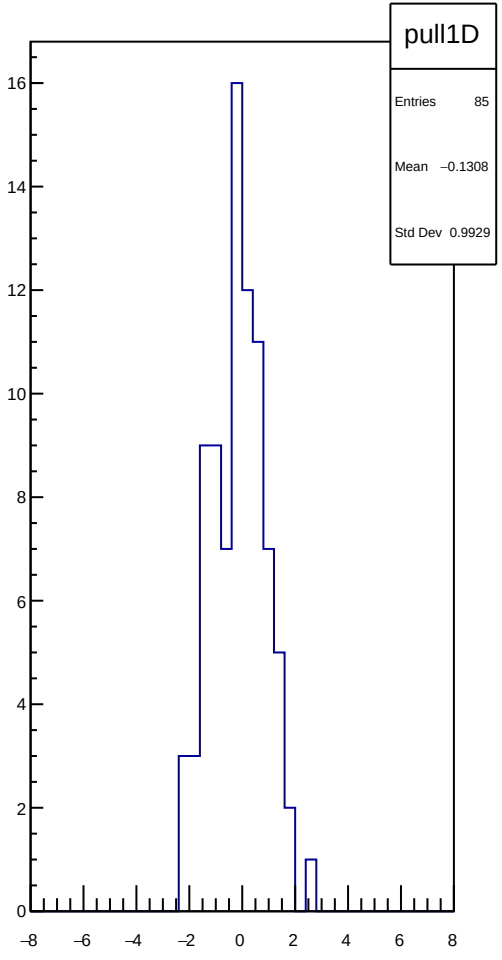

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.726e+04 / 84
p0 57.73 ± 0.04556
100
90
80
70
60
50
40

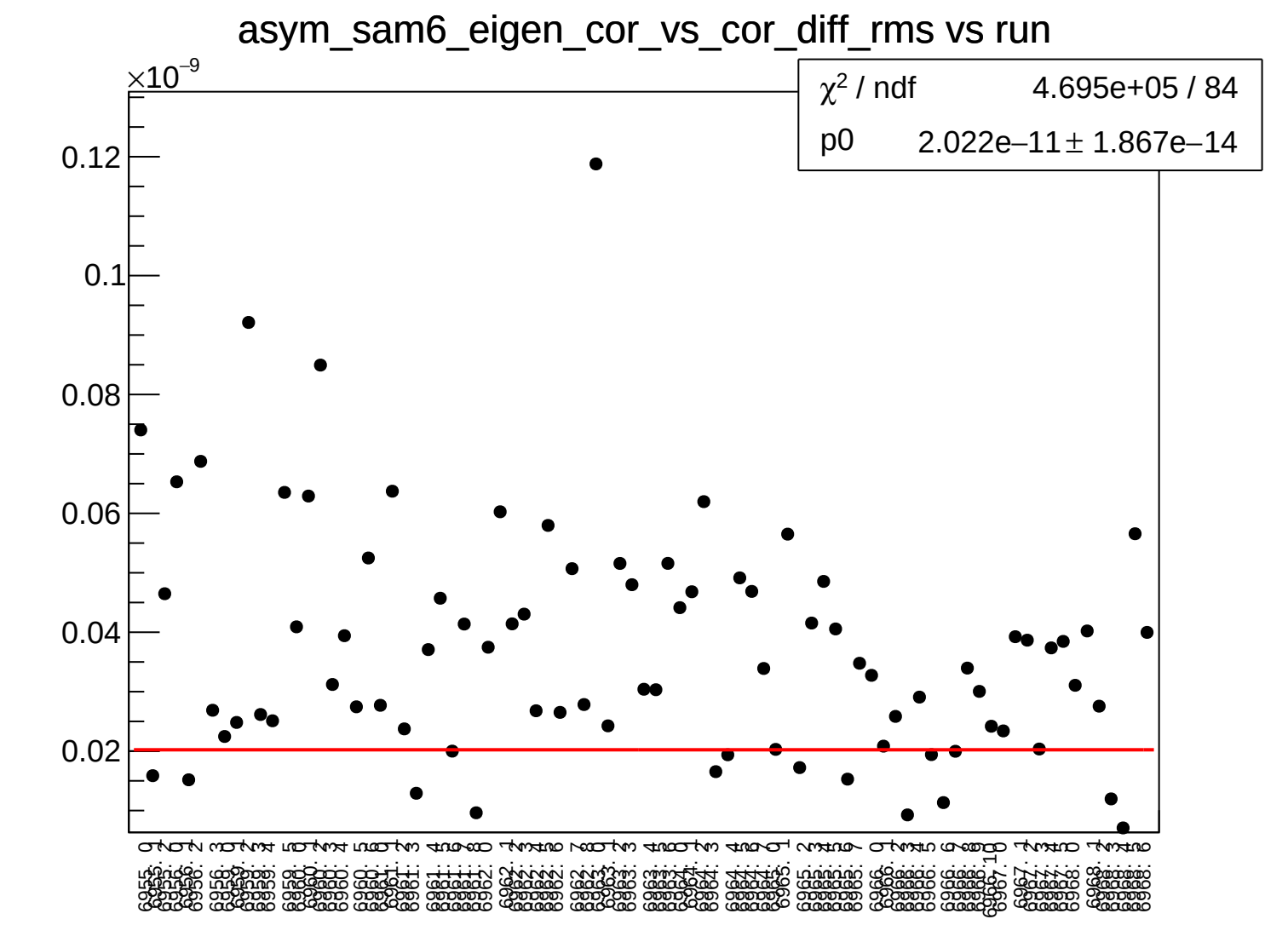

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100 / 84
p0 −0.01163 ± 0.06443
pull
Entries 85
Mean 725.1
Std Dev 0

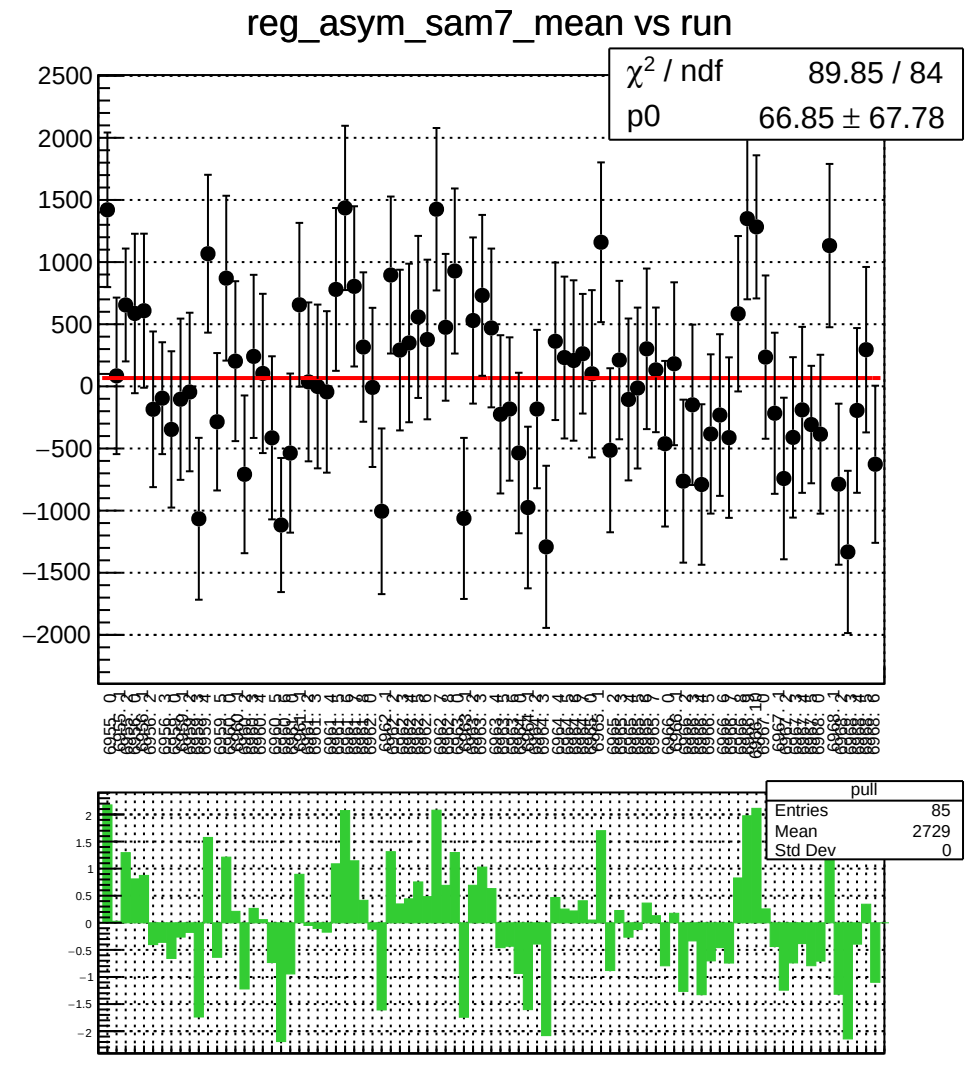

pull1D
Entries 85
Mean 0.01009
Std Dev 1.085

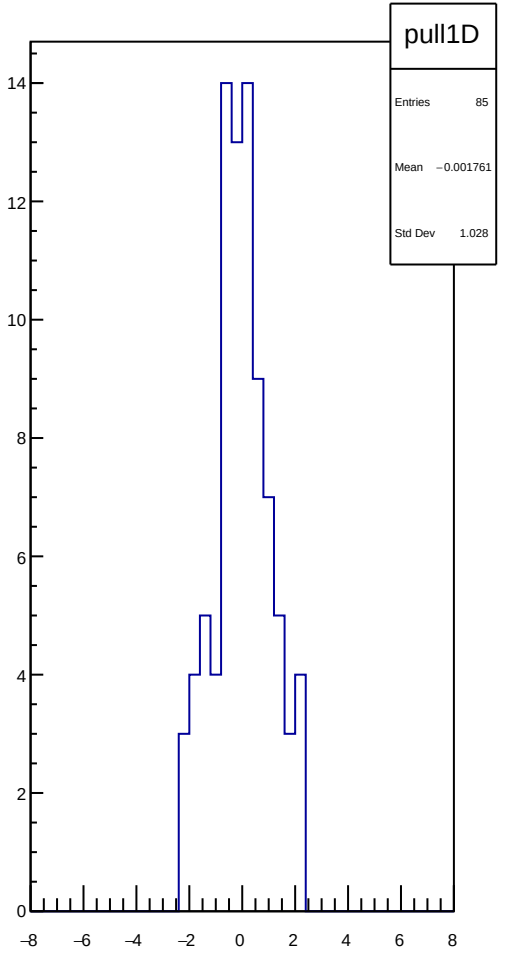

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.726e+04 / 84
p0 57.73 ± 0.04556
100
90
80
70
60
50
40

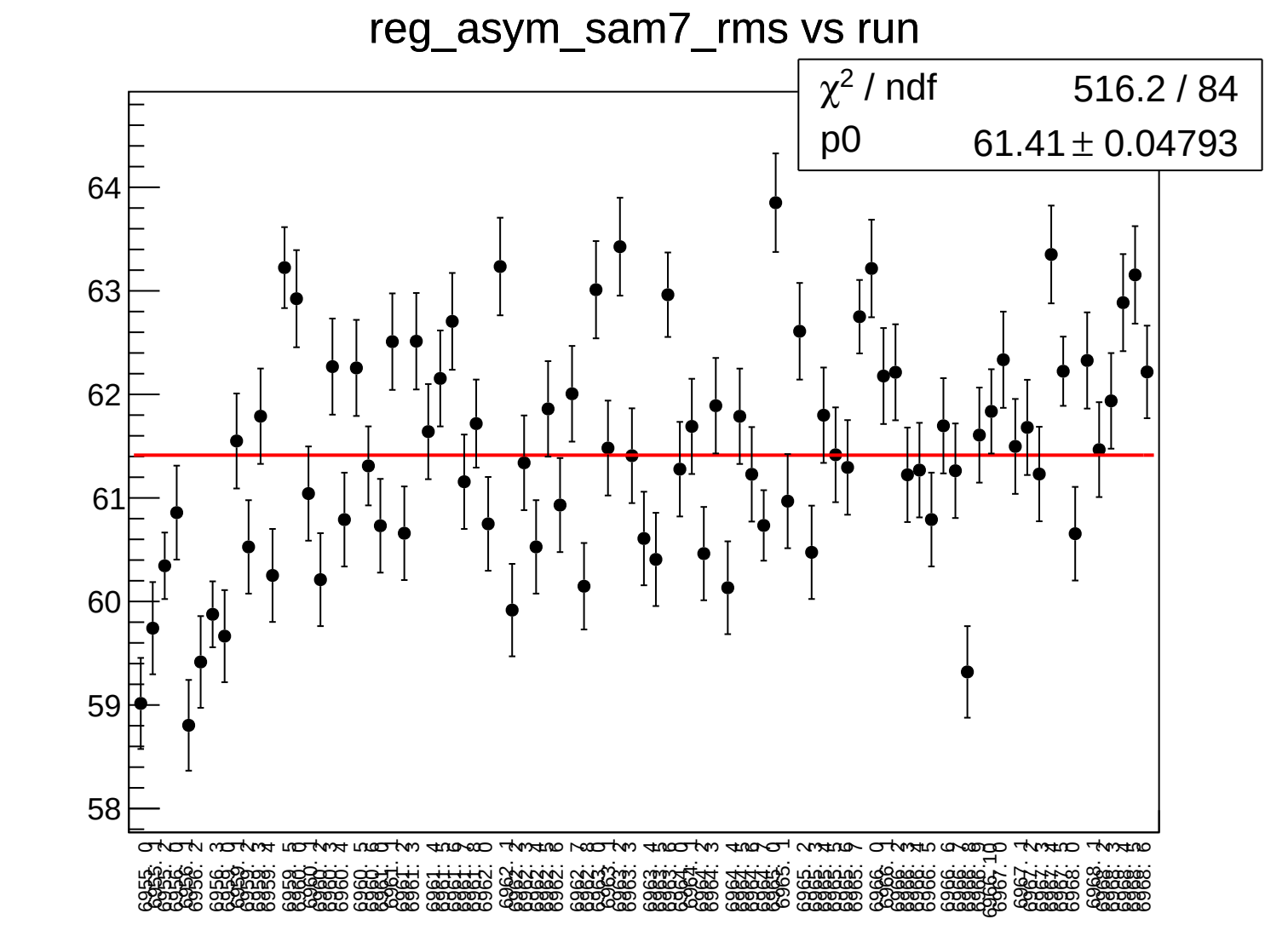

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.25 / 84
p0 −1.878e−14 ± 2.64e−14
pull
Entries 85
Mean 17.05
Std Dev 0

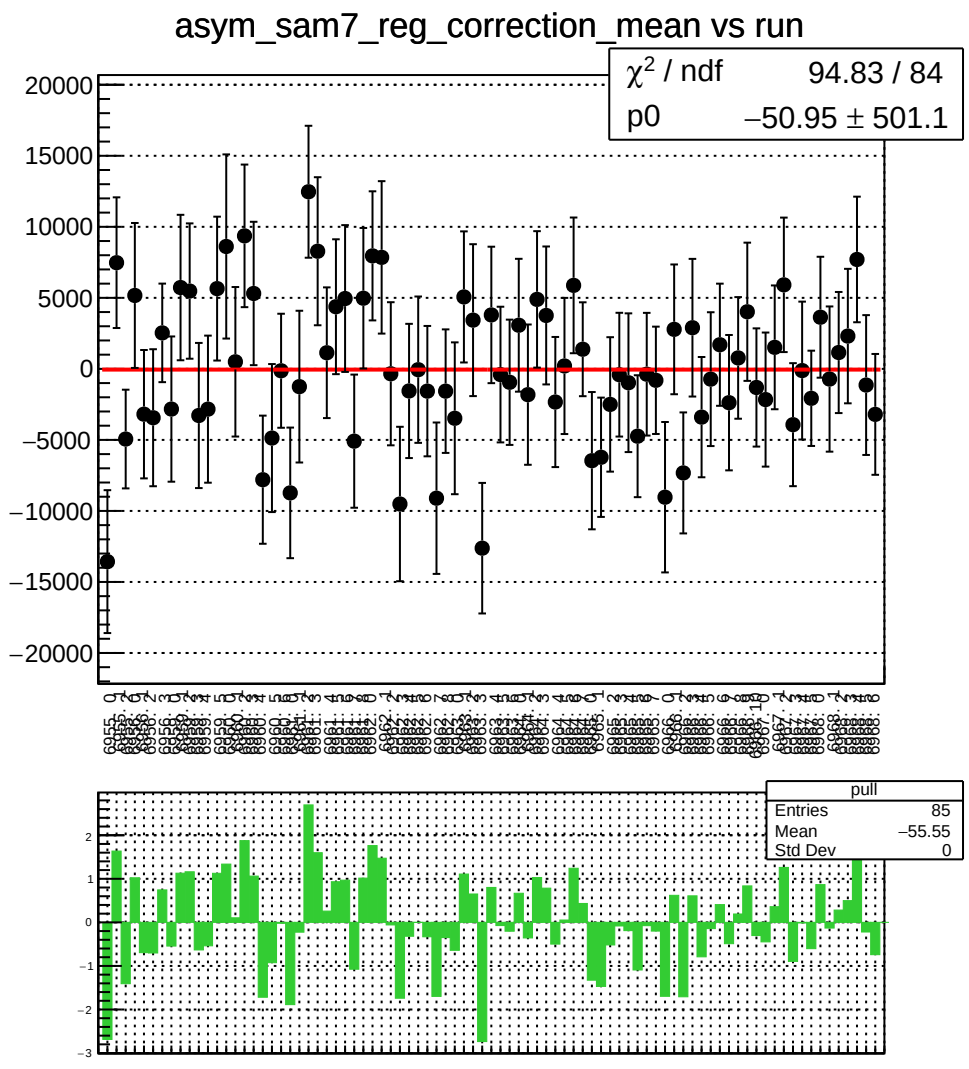

pull1D
Entries 85
Mean −0.1308
Std Dev 0.9929

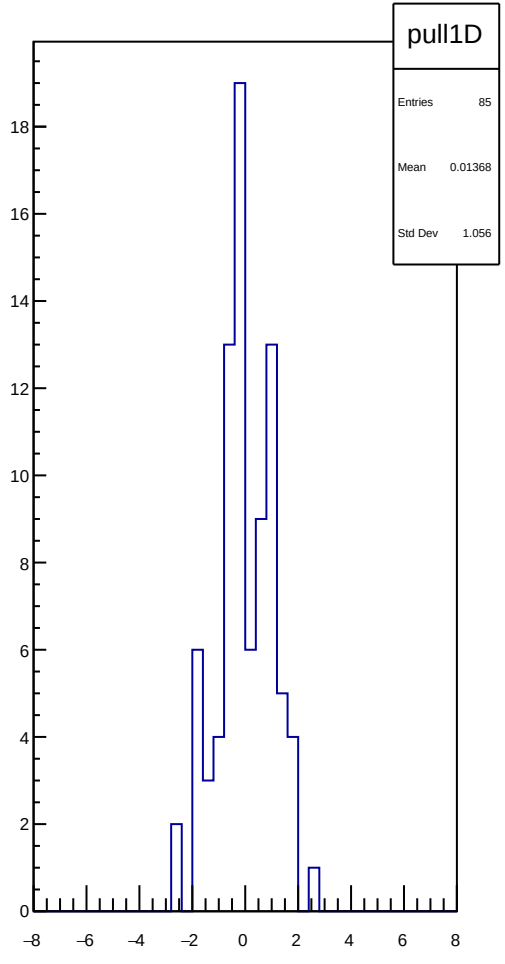

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.695e+05 / 84
p0 2.022e−11 ± 1.867e−14
0.12
0.1
0.08
0.06
0.04
0.02

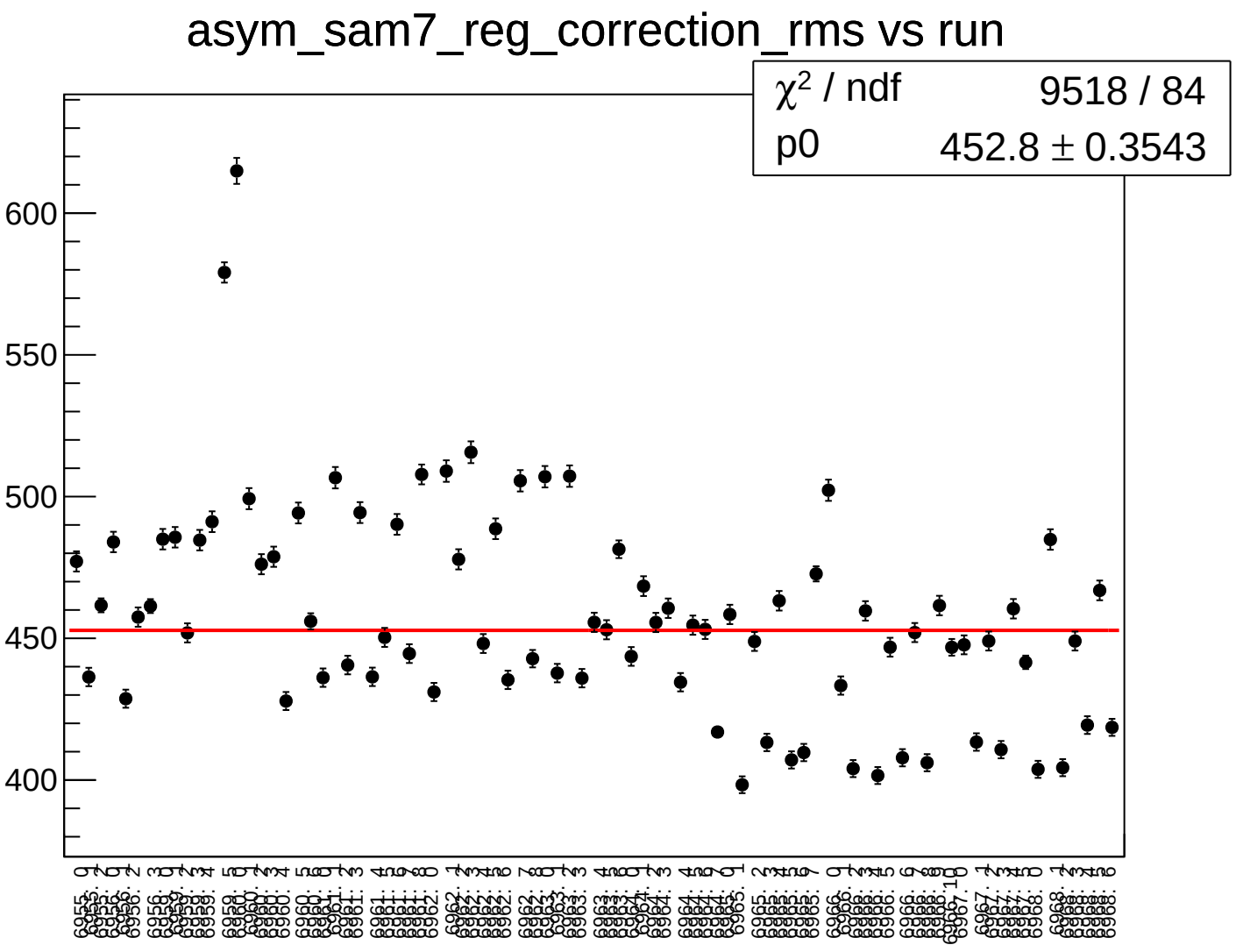

reg_asym_sam7_mean vs run
χ² / ndf 89.85 / 84
p0 66.85 ± 67.78
pull
Entries 85
Mean 2729
Std Dev 0

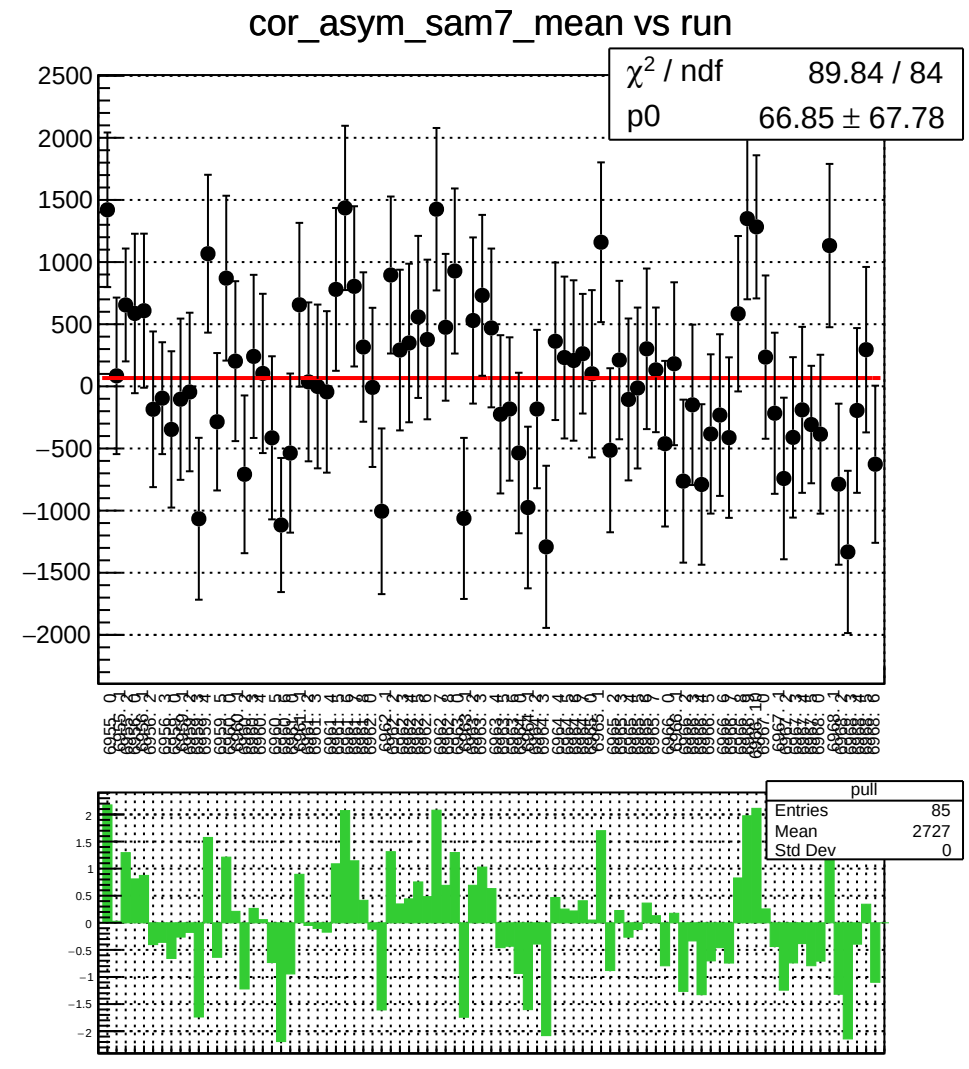

pull1D
Entries 85
Mean −0.001761
Std Dev 1.028

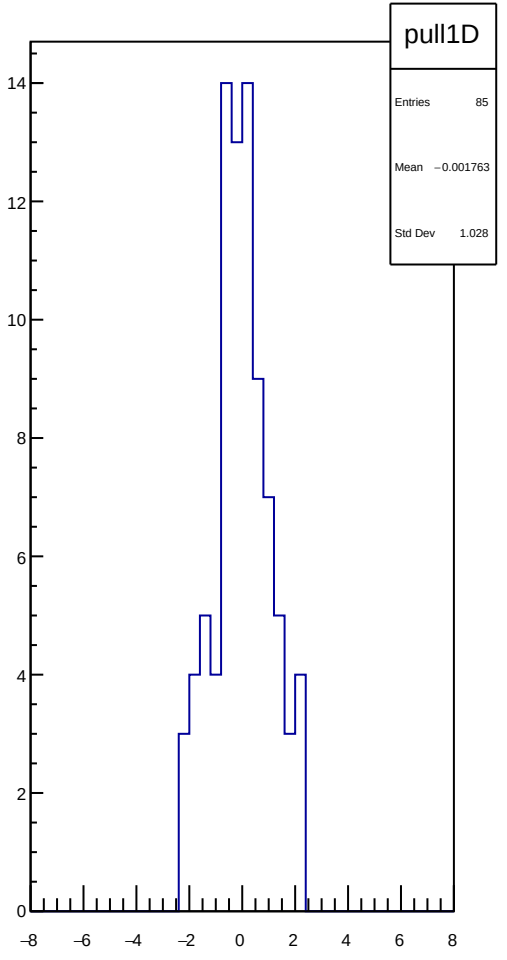

reg_asym_sam7_rms vs run
$\chi^2$ / ndf 516.2 / 84
p0 61.41 ± 0.04793
64
63
62
61
60
59
58

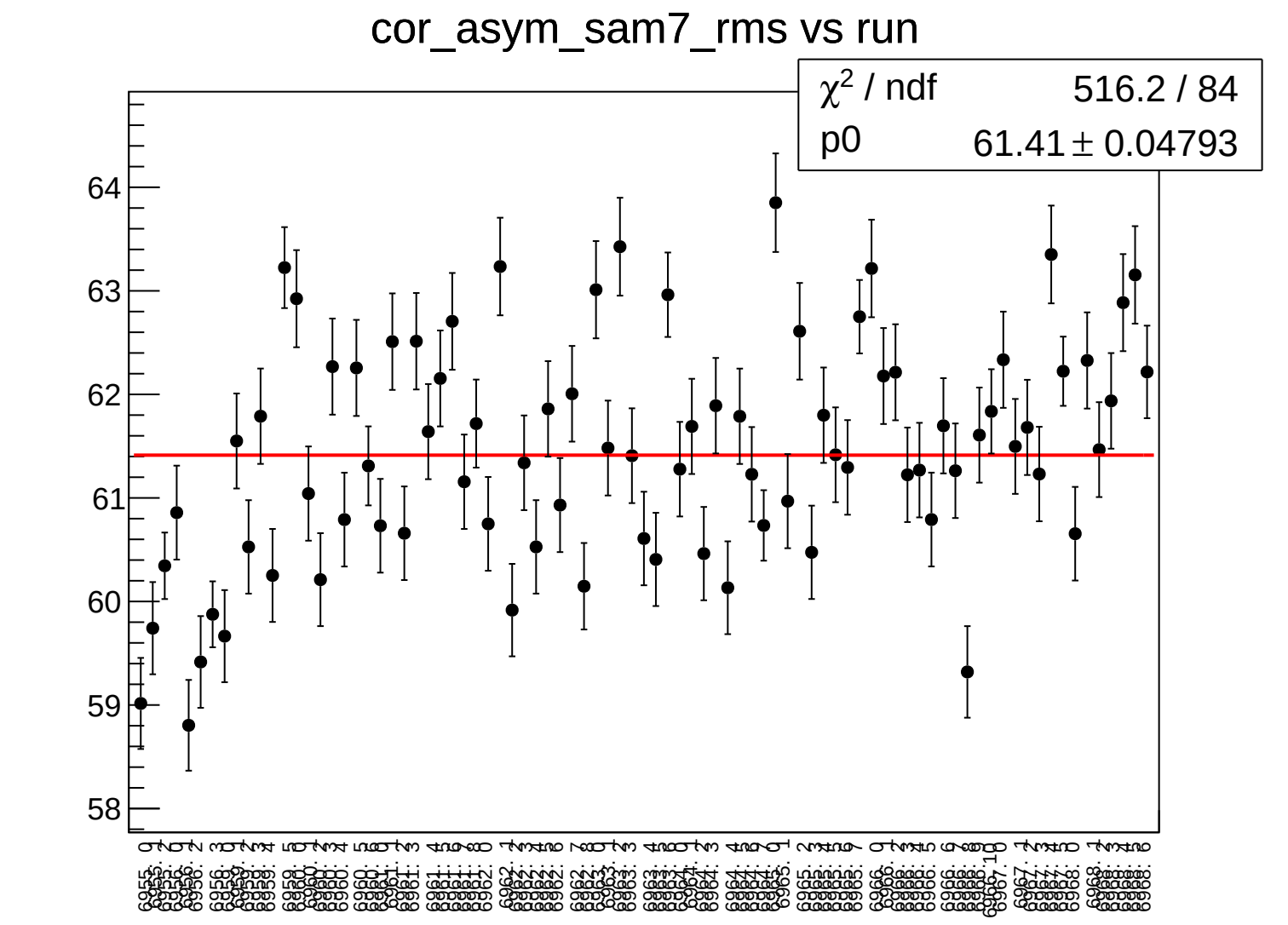

asym_sam7_reg_correction_mean vs run
χ² / ndf 94.83 / 84
p0 −50.95 ± 501.1
pull
Entries 85
Mean −55.55
Std Dev 0

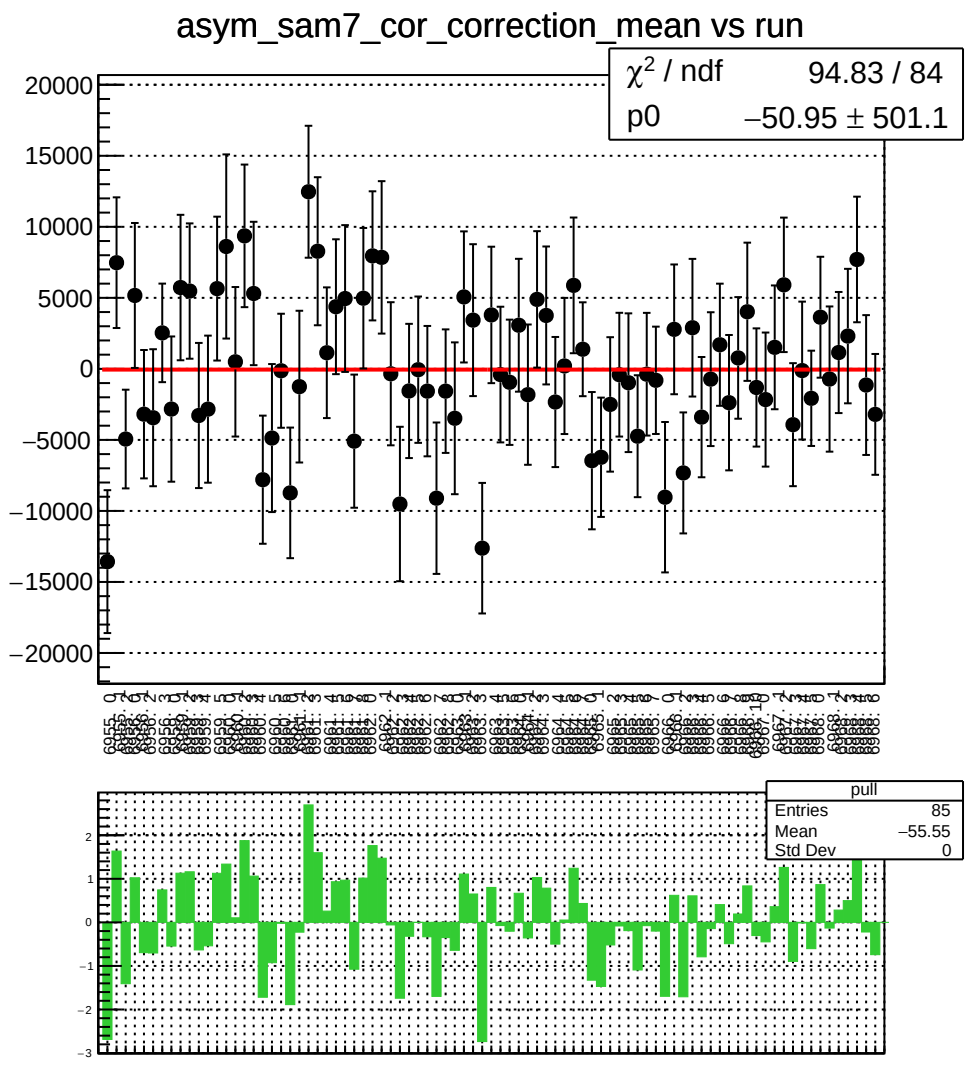

pull1D
Entries 85
Mean 0.01368
Std Dev 1.056

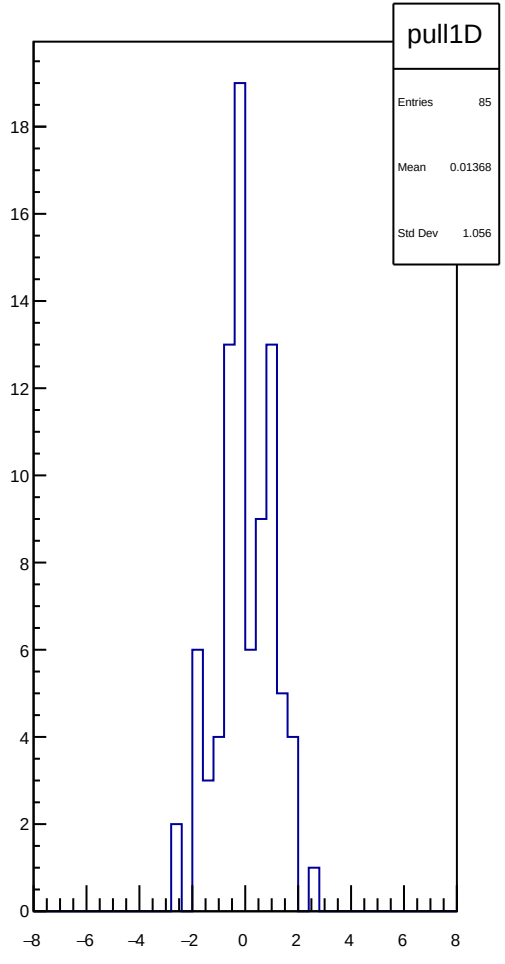

asym_sam7_reg_correction_rms vs run
χ² / ndf 9518 / 84
p0 452.8 ± 0.3543
600
550
500
450
400

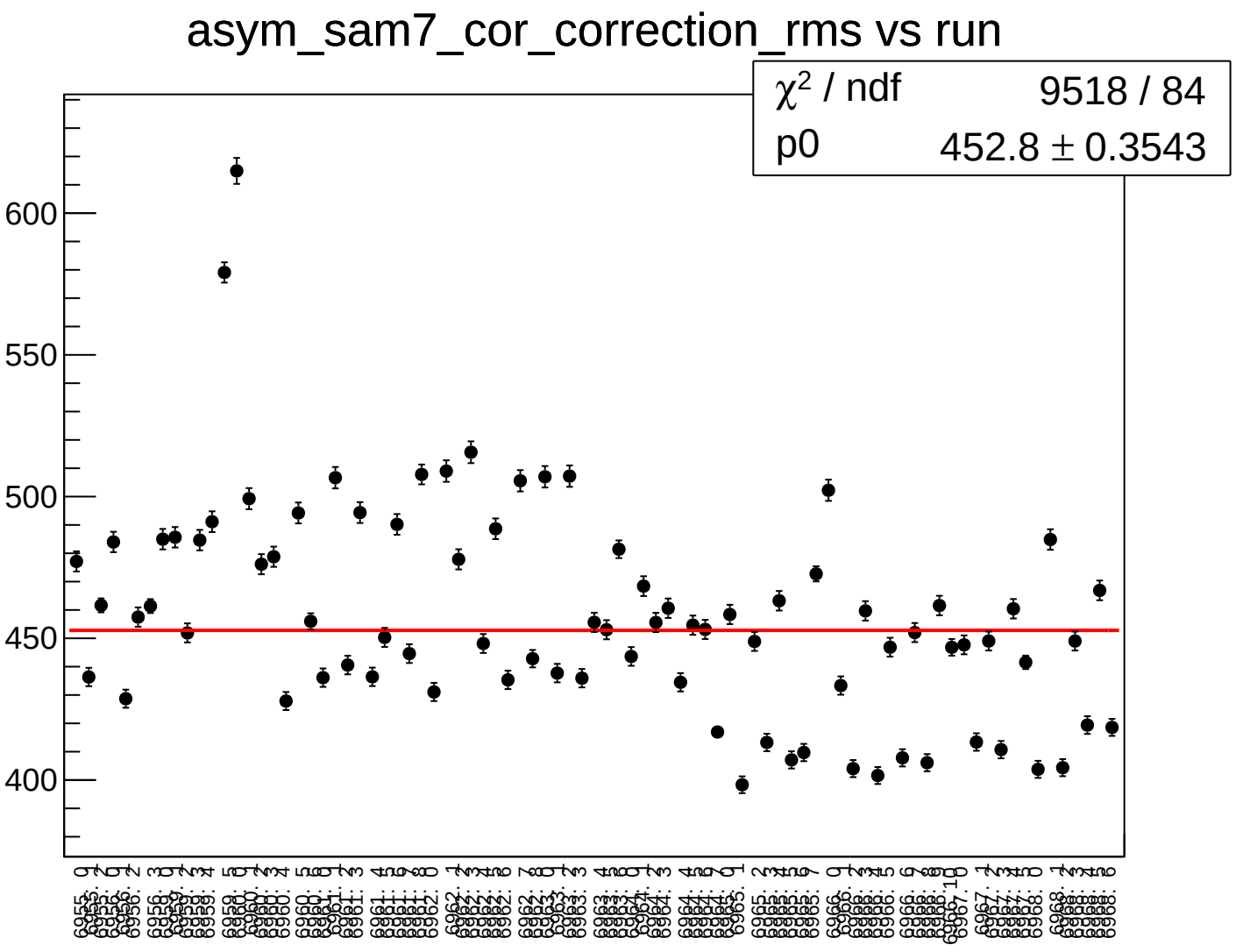

cor_asym_sam7_mean vs run
χ² / ndf 89.84 / 84
p0 66.85 ± 67.78
pull
Entries 85
Mean 2727
Std Dev 0

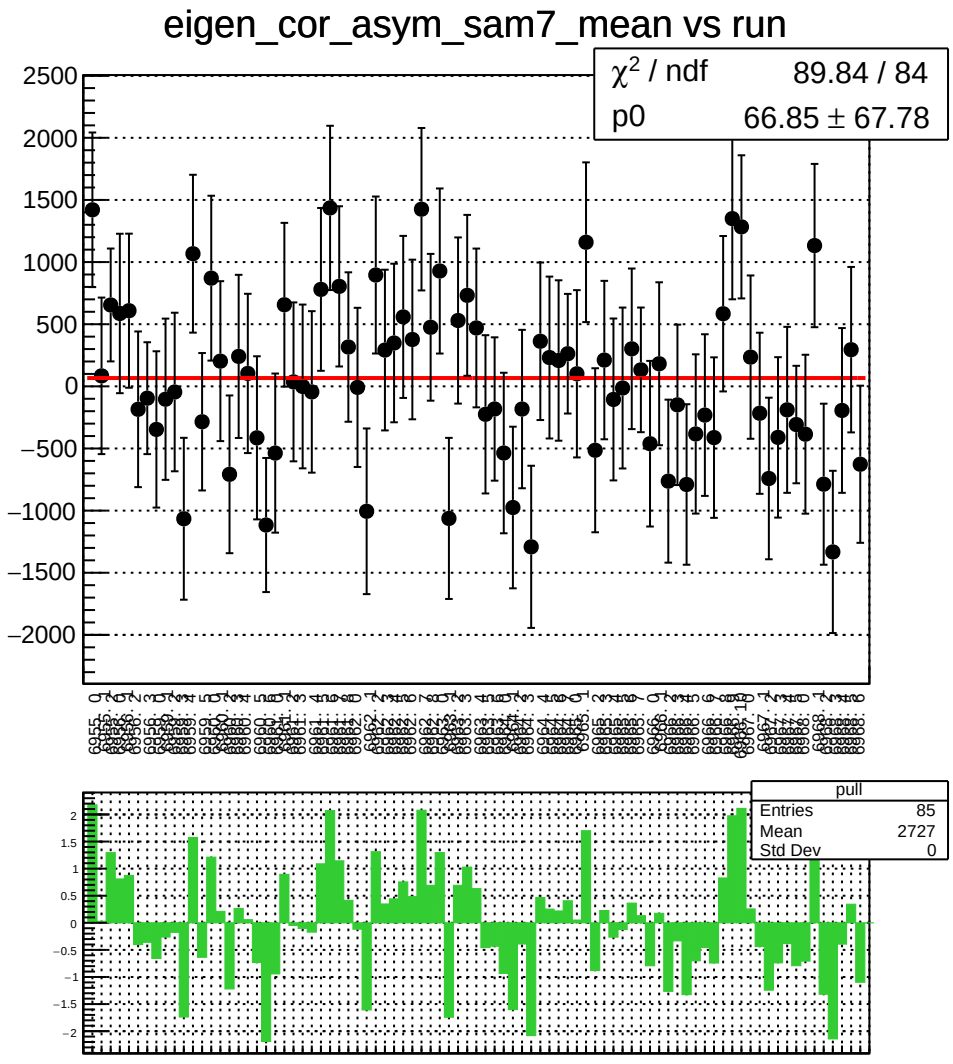

pull1D
Entries 85
Mean −0.001763
Std Dev 1.028

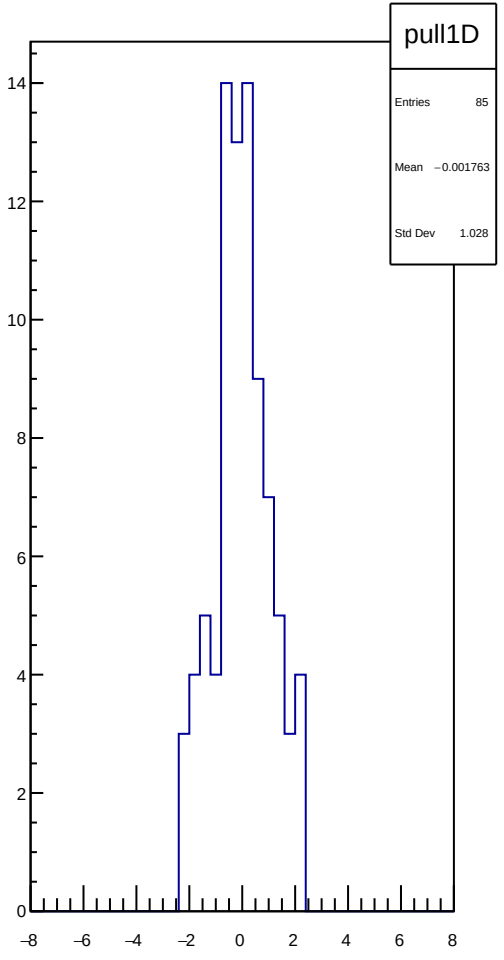

cor_asym_sam7_rms vs run
$\chi^2$ / ndf 516.2 / 84
p0 61.41 ± 0.04793
64
63
62
61
60
59
58

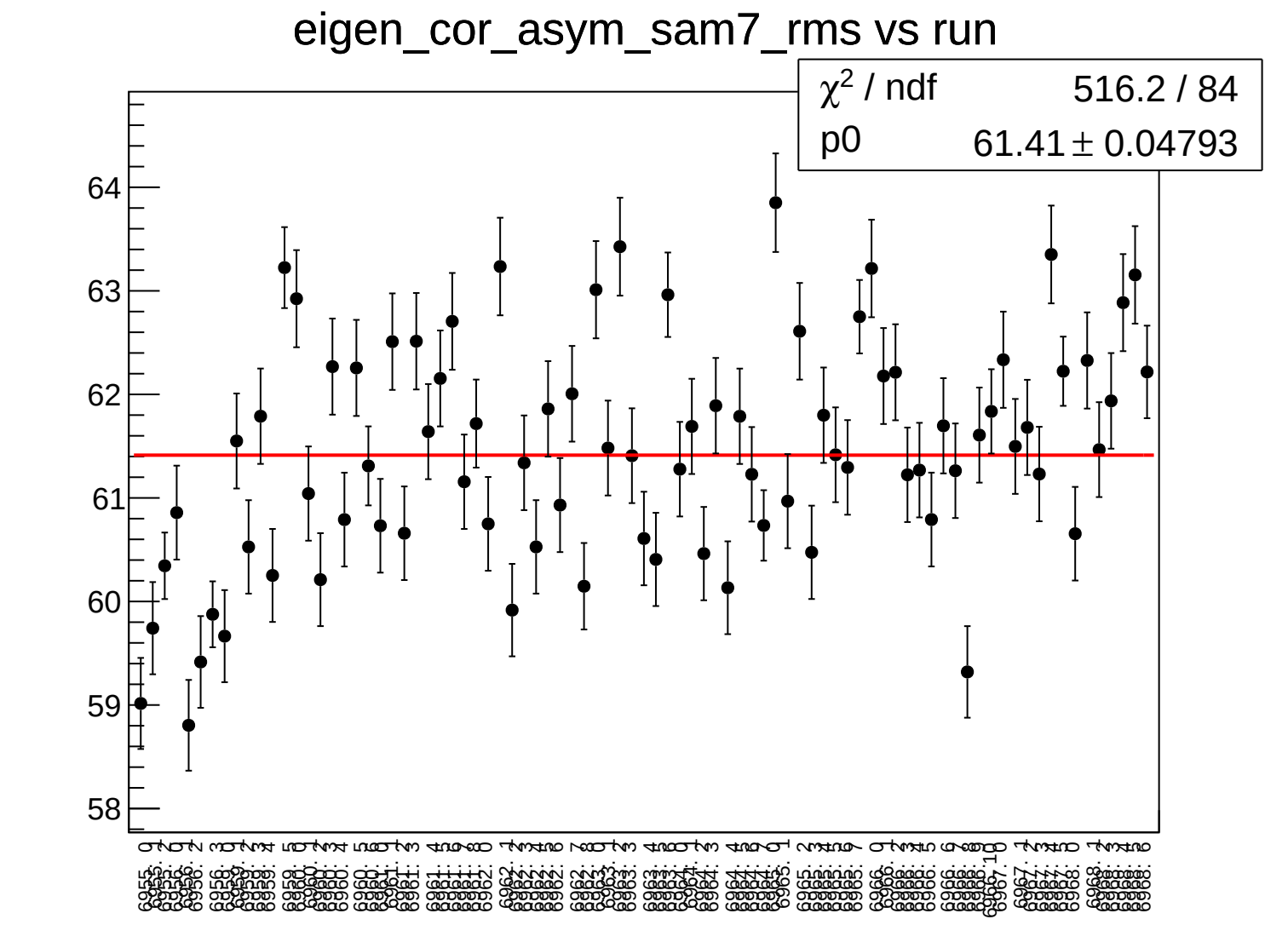

asym_sam7_cor_correction_mean vs run
χ² / ndf 94.83 / 84
p0 −50.95 ± 501.1
pull
Entries 85
Mean −55.55
Std Dev 0

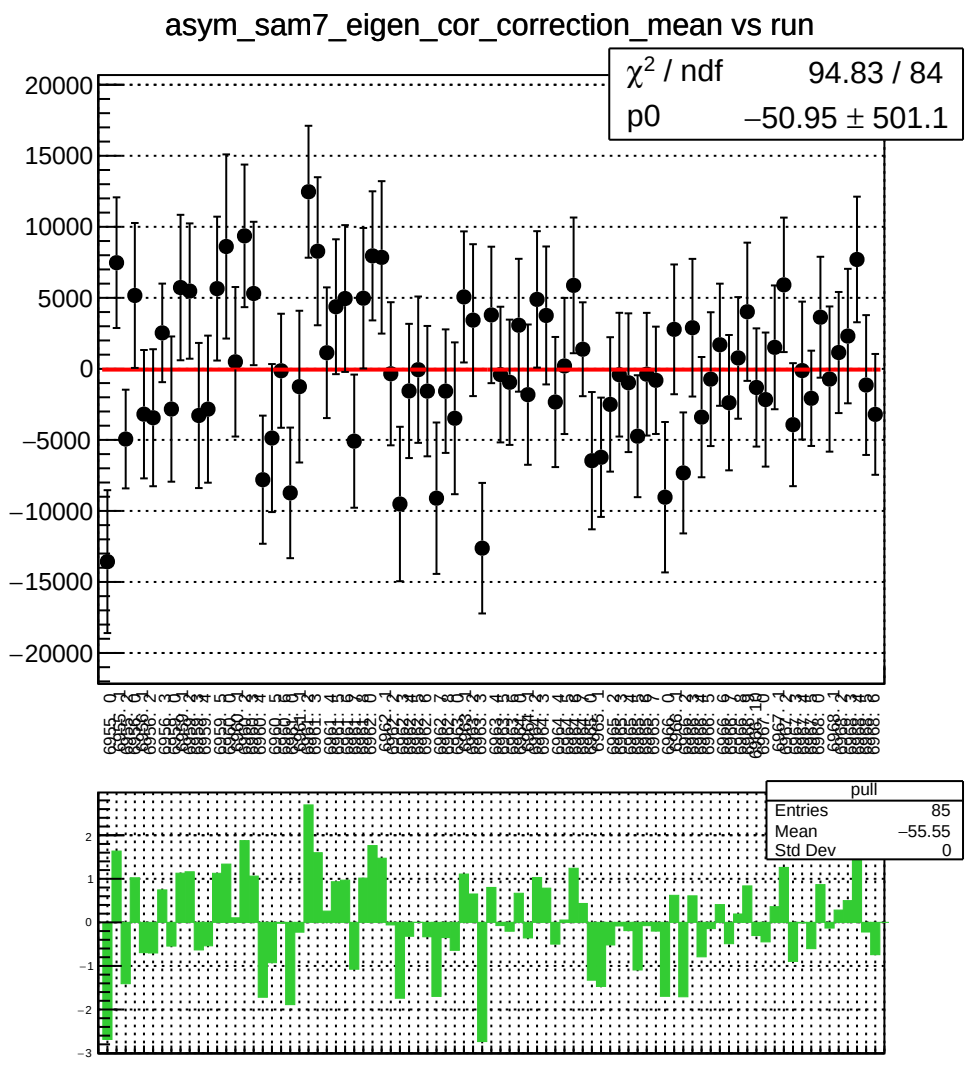

pull1D
Entries 85
Mean 0.01368
Std Dev 1.056

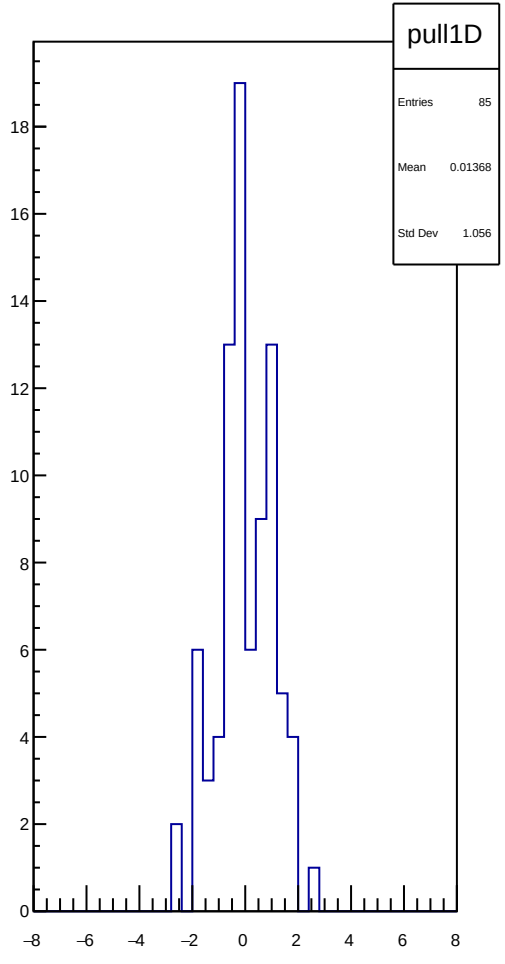

asym_sam7_cor_correction_rms vs run
χ² / ndf 9518 / 84
p0 452.8 ± 0.3543
600
550
500
450
400

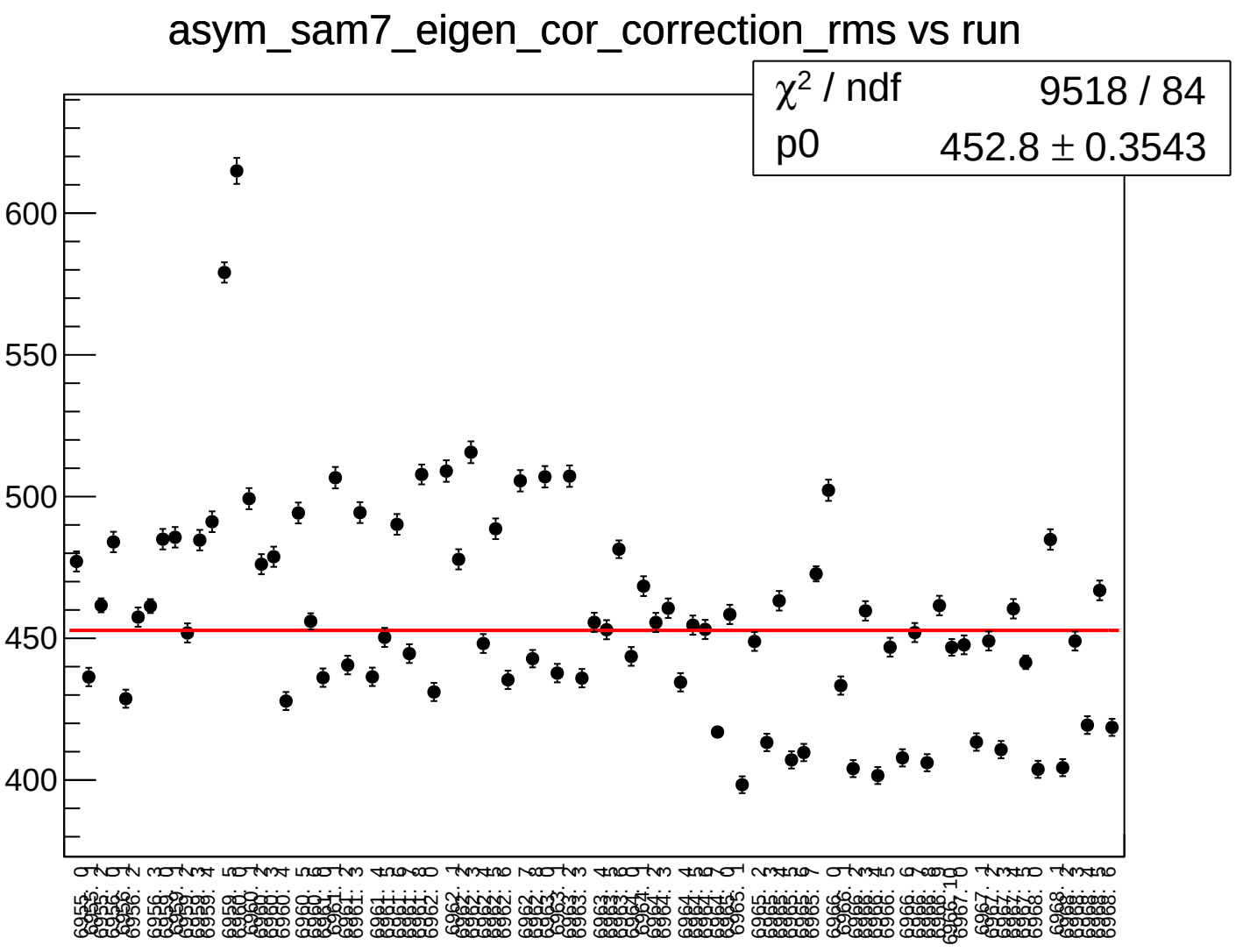

eigen_cor_asym_sam7_mean vs run
χ² / ndf 89.84 / 84
p0 66.85 ± 67.78
pull
Entries 85
Mean 2727
Std Dev 0

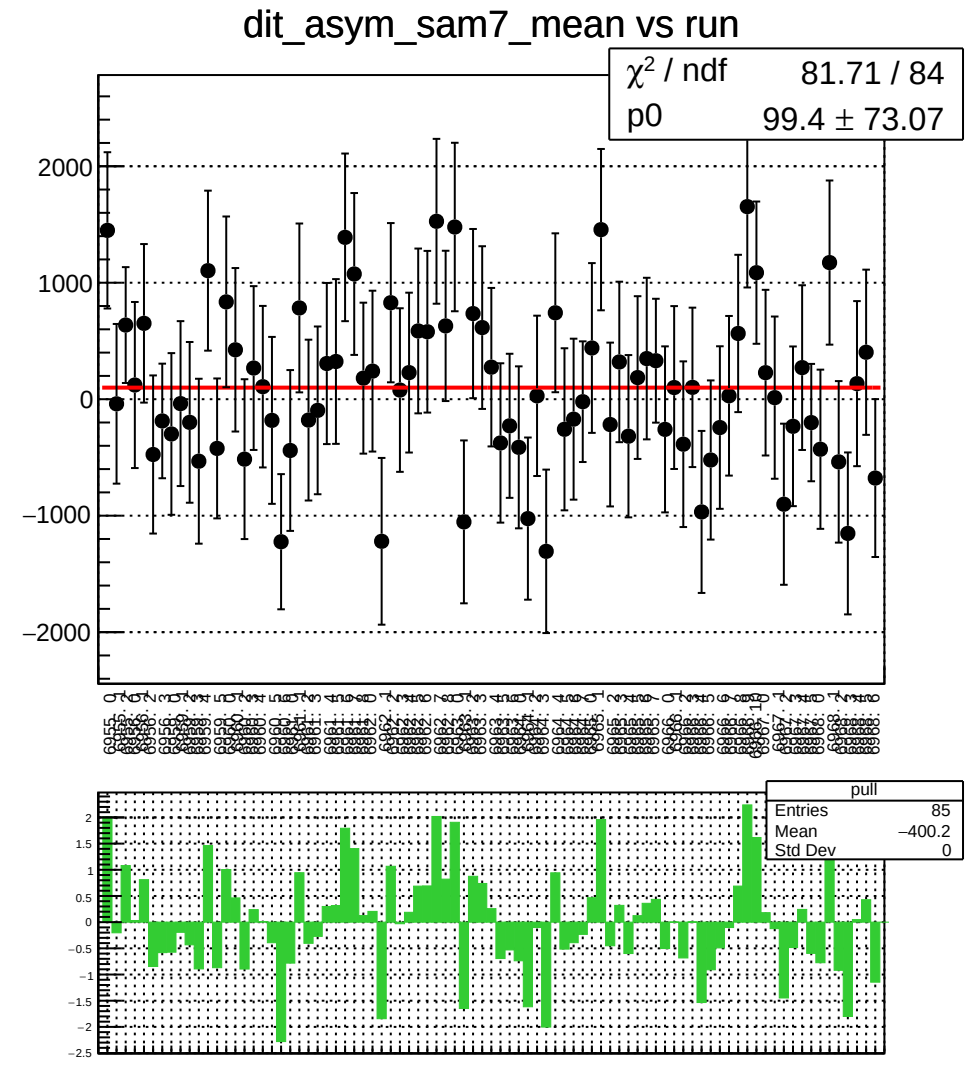

pull1D
Entries 85
Mean −0.001763
Std Dev 1.028

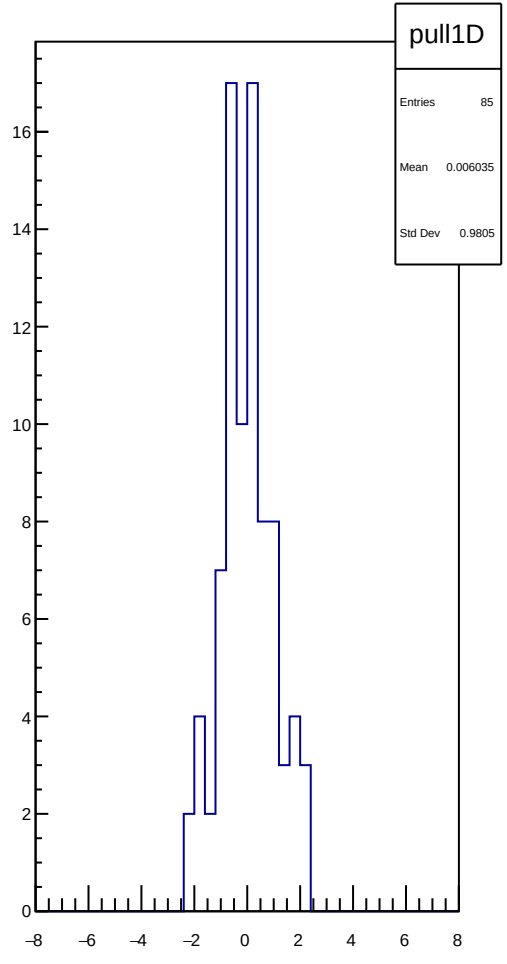

eigen_cor_asym_sam7_rms vs run
$\chi^2$ / ndf 516.2 / 84
p0 61.41 ± 0.04793
64
63
62
61
60
59
58

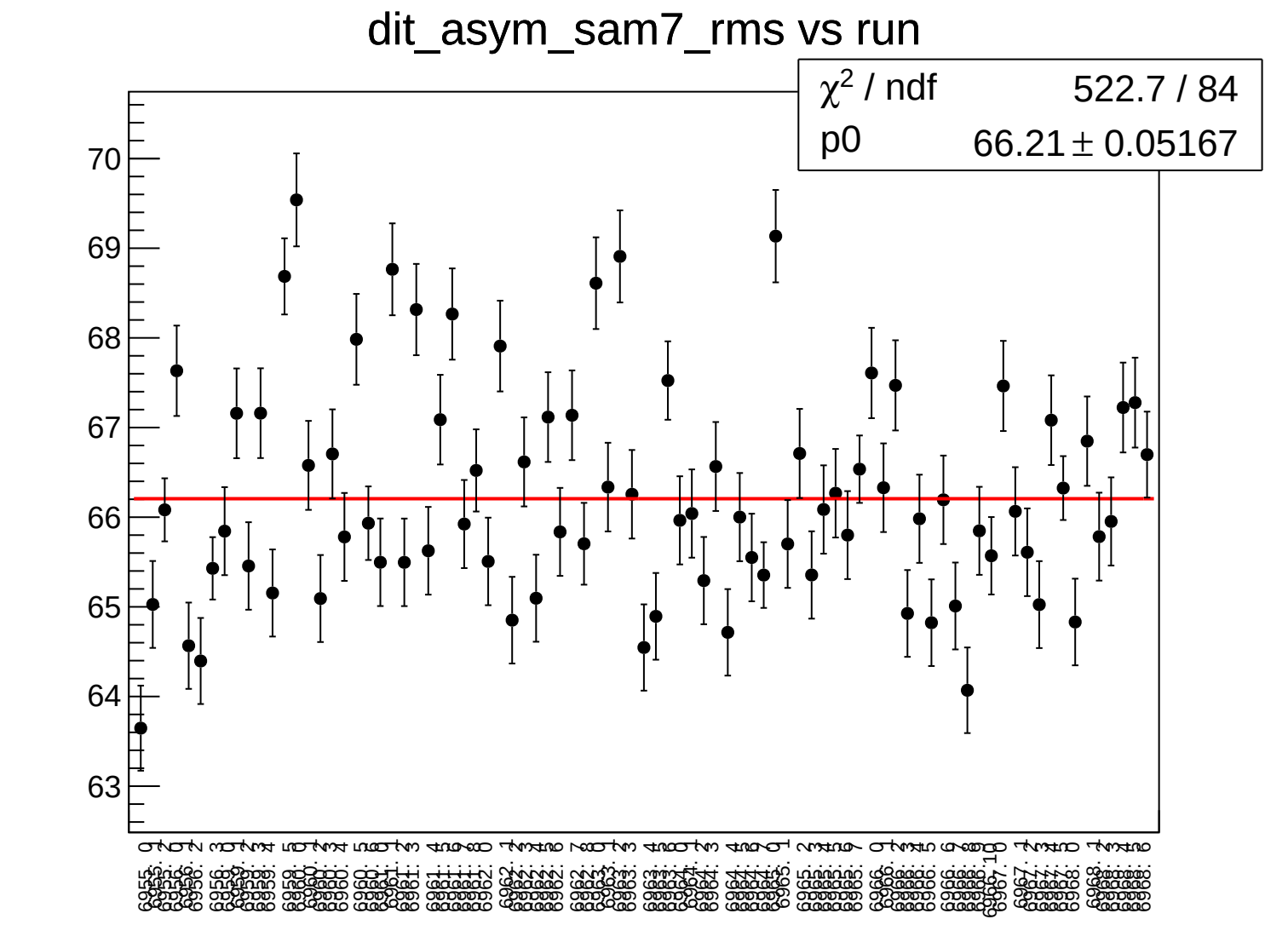

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 94.83 / 84
p0 −50.95 ± 501.1
pull
Entries 85
Mean −55.55
Std Dev 0

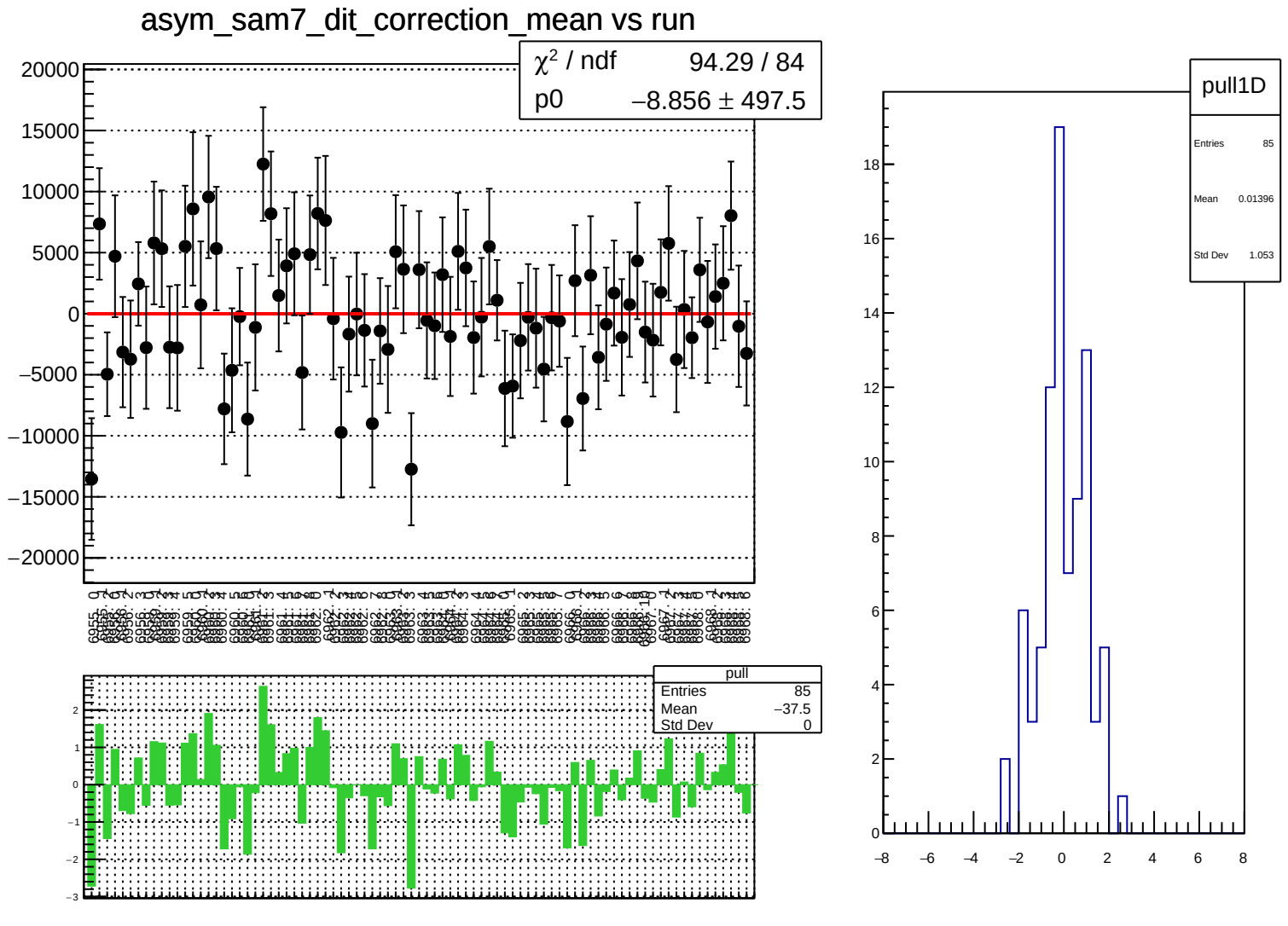

pull1D
Entries 85
Mean 0.01368
Std Dev 1.056

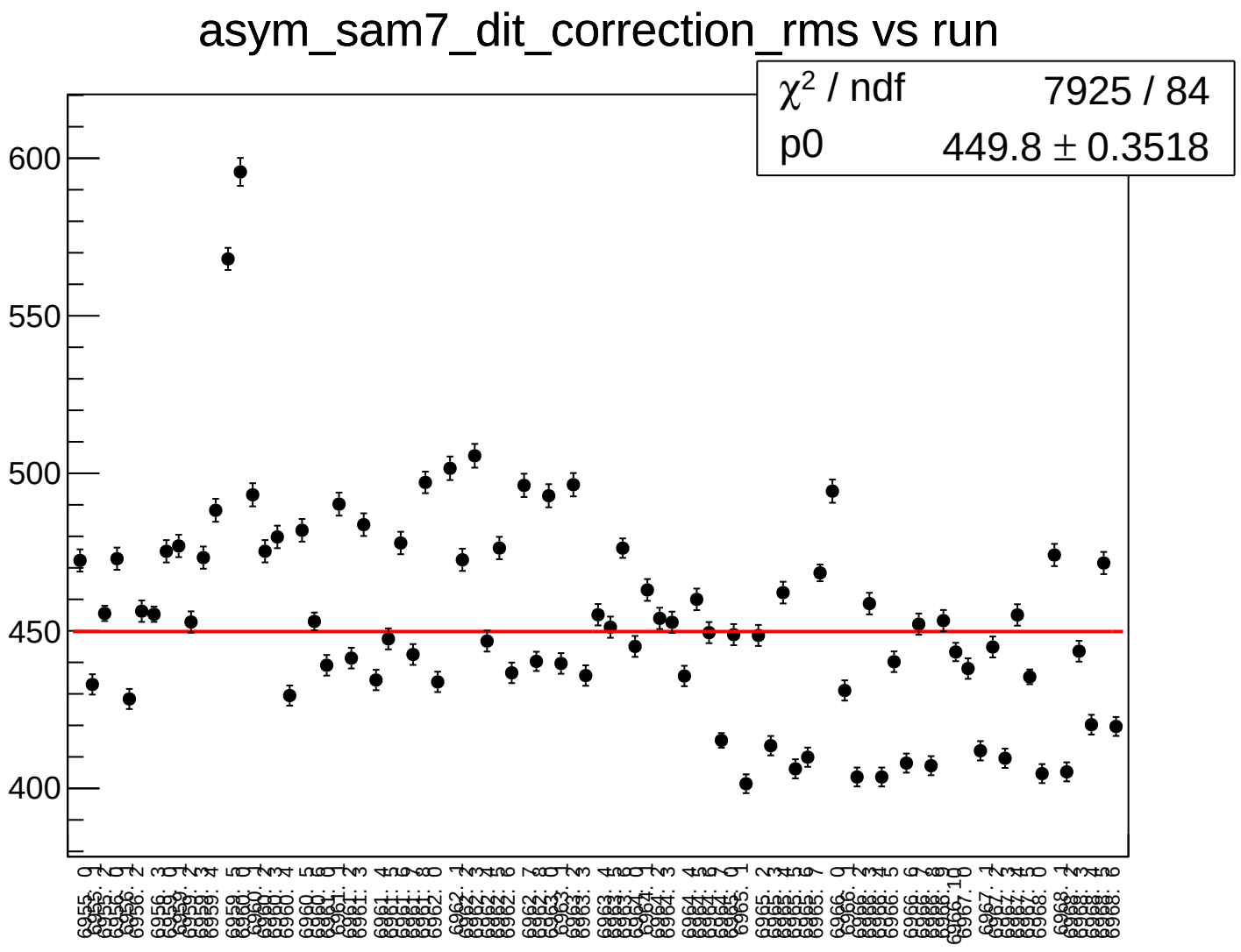

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 9518 / 84
p0 452.8 ± 0.3543
600
550
500
450
400

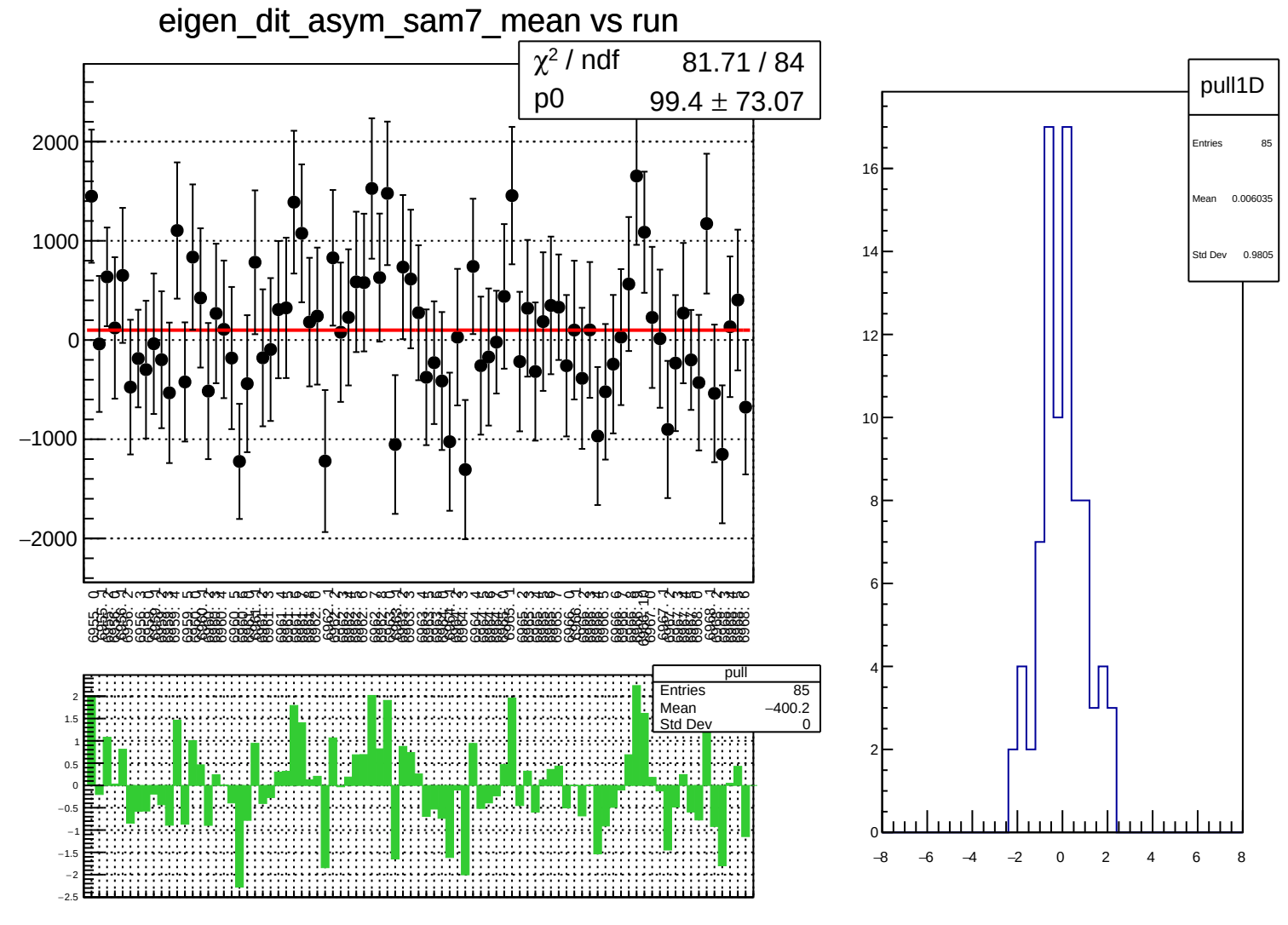

dit_asym_sam7_mean vs run
χ² / ndf 81.71 / 84
p0 99.4 ± 73.07
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −400.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

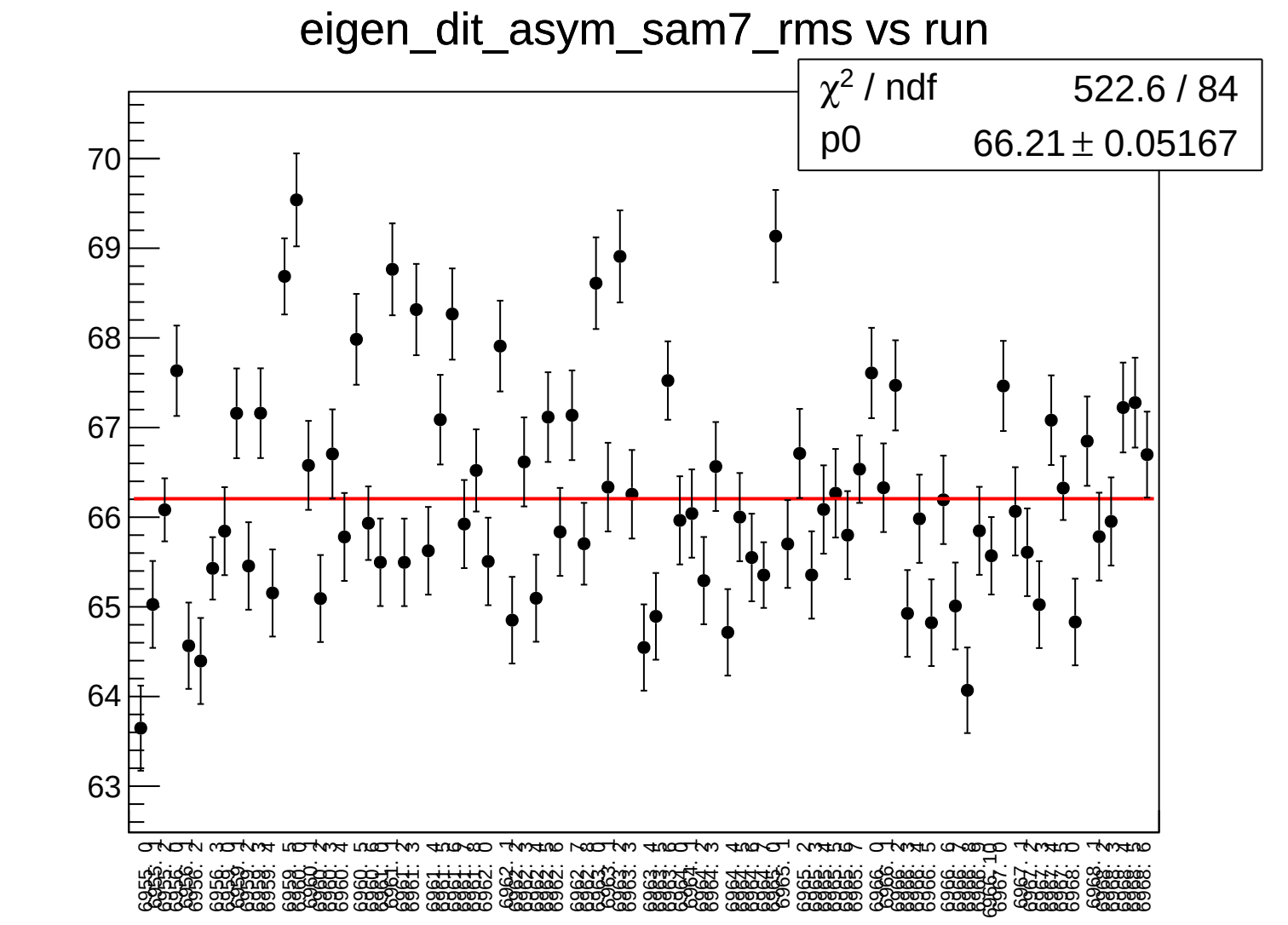

pull1D
Entries 85
Mean 0.006035
Std Dev 0.9805
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

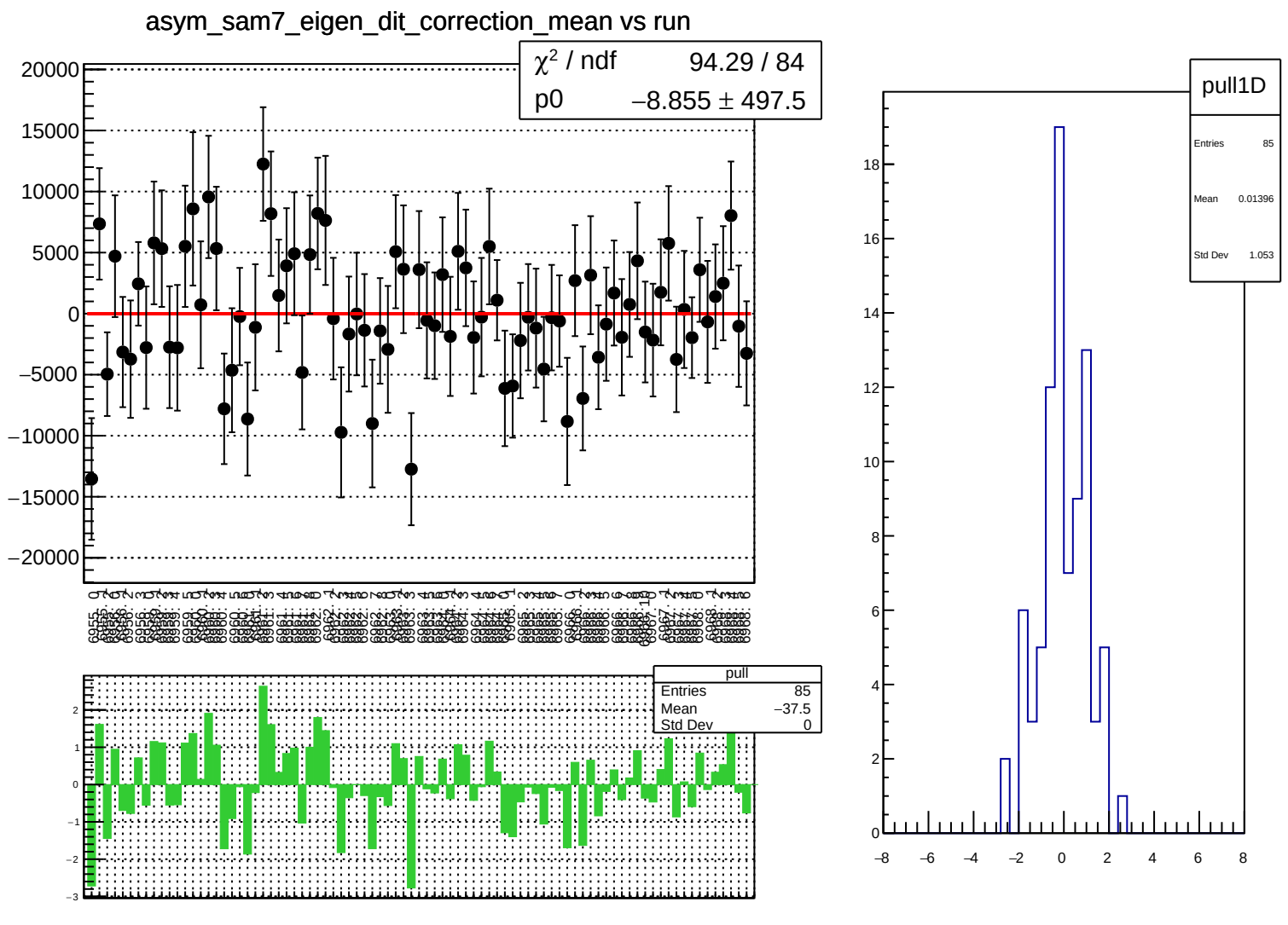

dit_asym_sam7_rms vs run
$\chi^2$ / ndf 522.7 / 84
p0 66.21 ± 0.05167
70
69
68
67
66
65
64
63

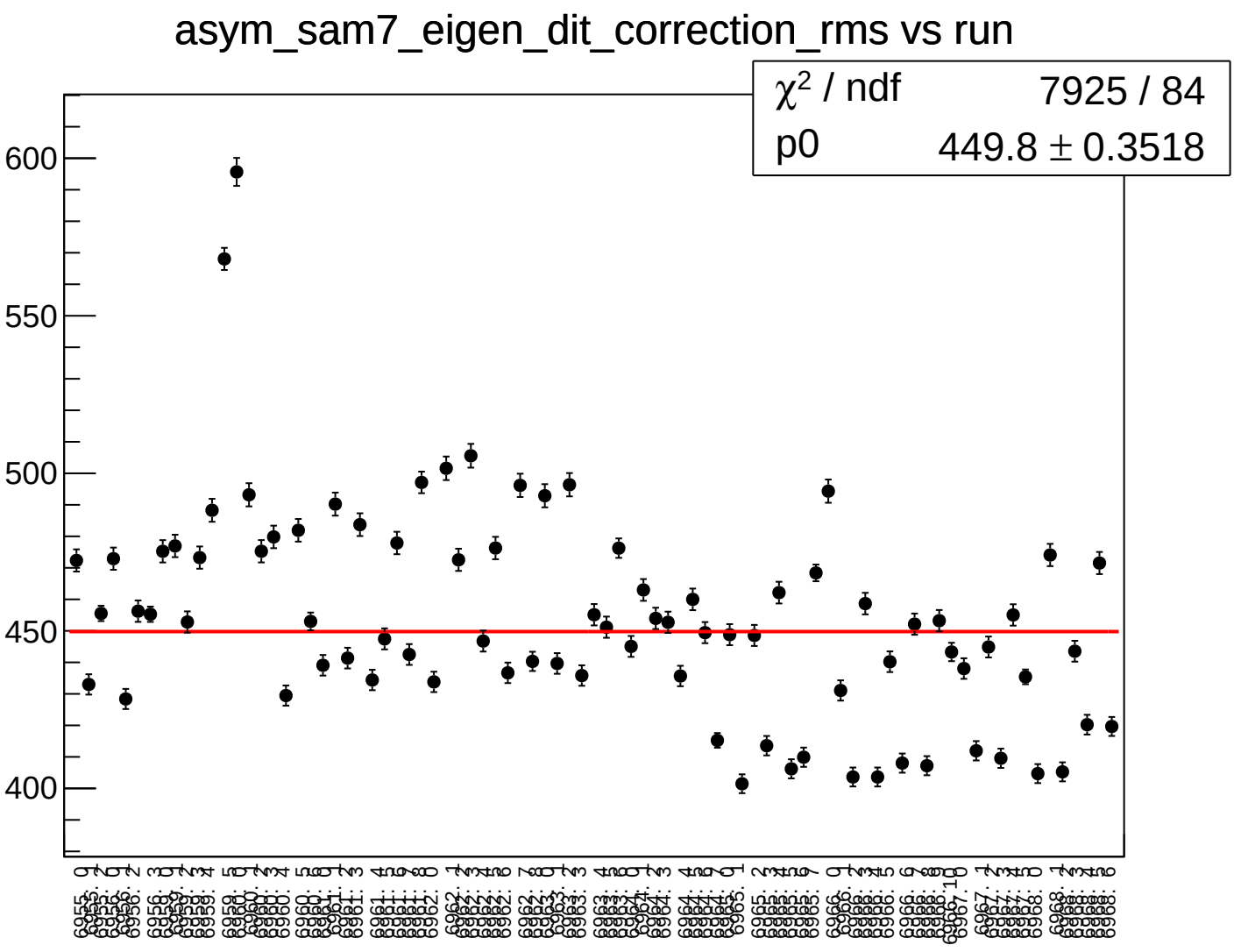

asym_sam7_dit_correction_mean vs run
χ² / ndf 94.29 / 84
p0 −8.856 ± 497.5
pull
Entries 85
Mean −37.5
Std Dev 0
pull1D
Entries 85
Mean 0.01396
Std Dev 1.053

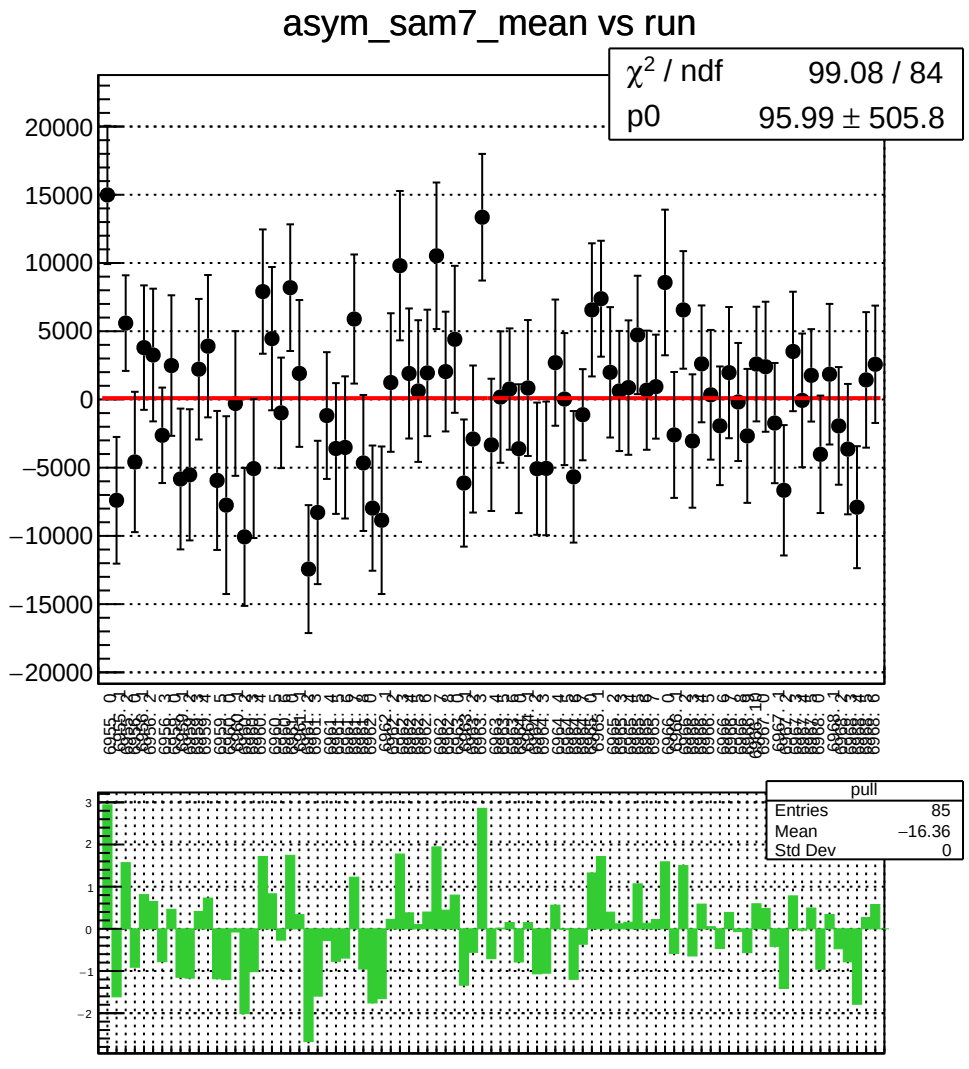

asym_sam7_dit_correction_rms vs run
χ² / ndf 7925 / 84
p0 449.8 ± 0.3518
600
550
500
450
400

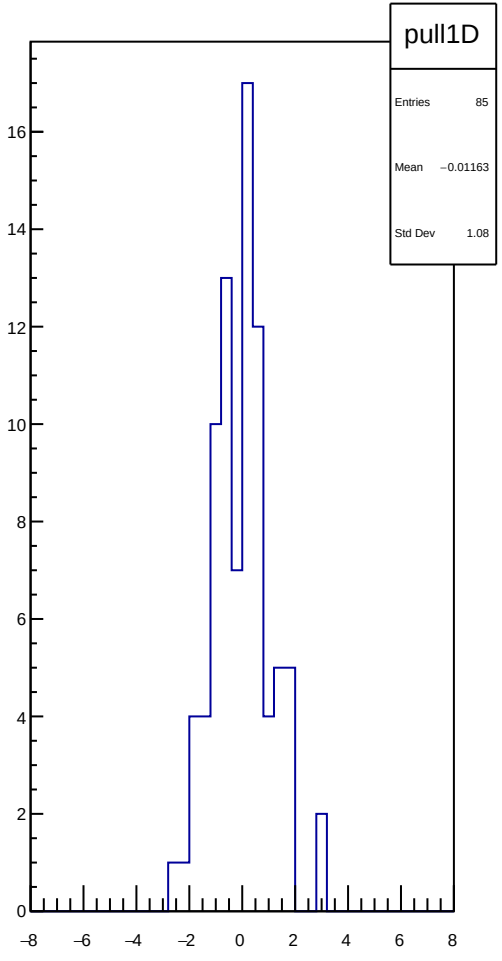

eigen_dit_asym_sam7_mean vs run
χ² / ndf 81.71 / 84
p0 99.4 ± 73.07
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −400.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean 0.006035
Std Dev 0.9805
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

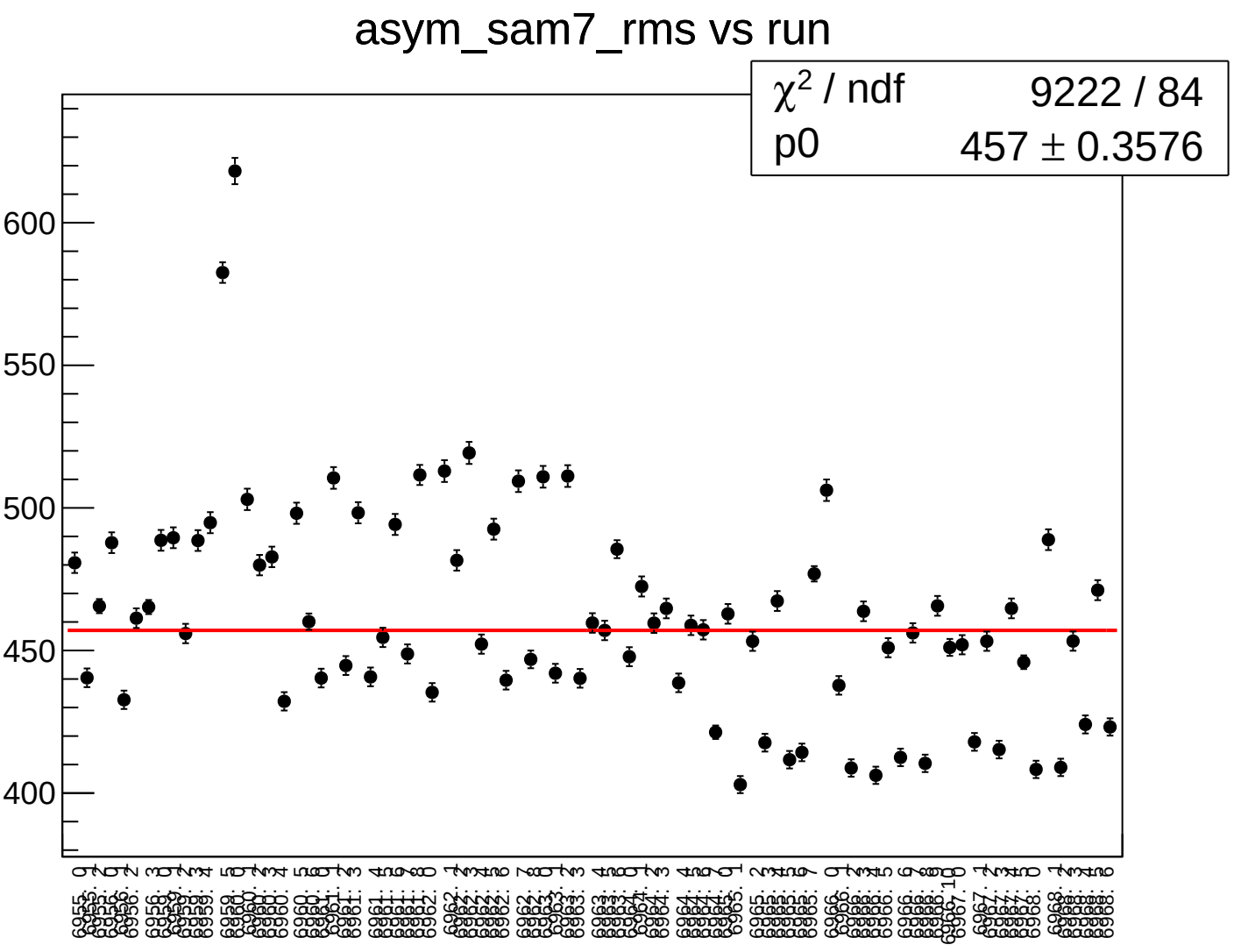

eigen_dit_asym_sam7_rms vs run
$\chi^2$ / ndf 522.6 / 84
p0 66.21 ± 0.05167
70
69
68
67
66
65
64
63

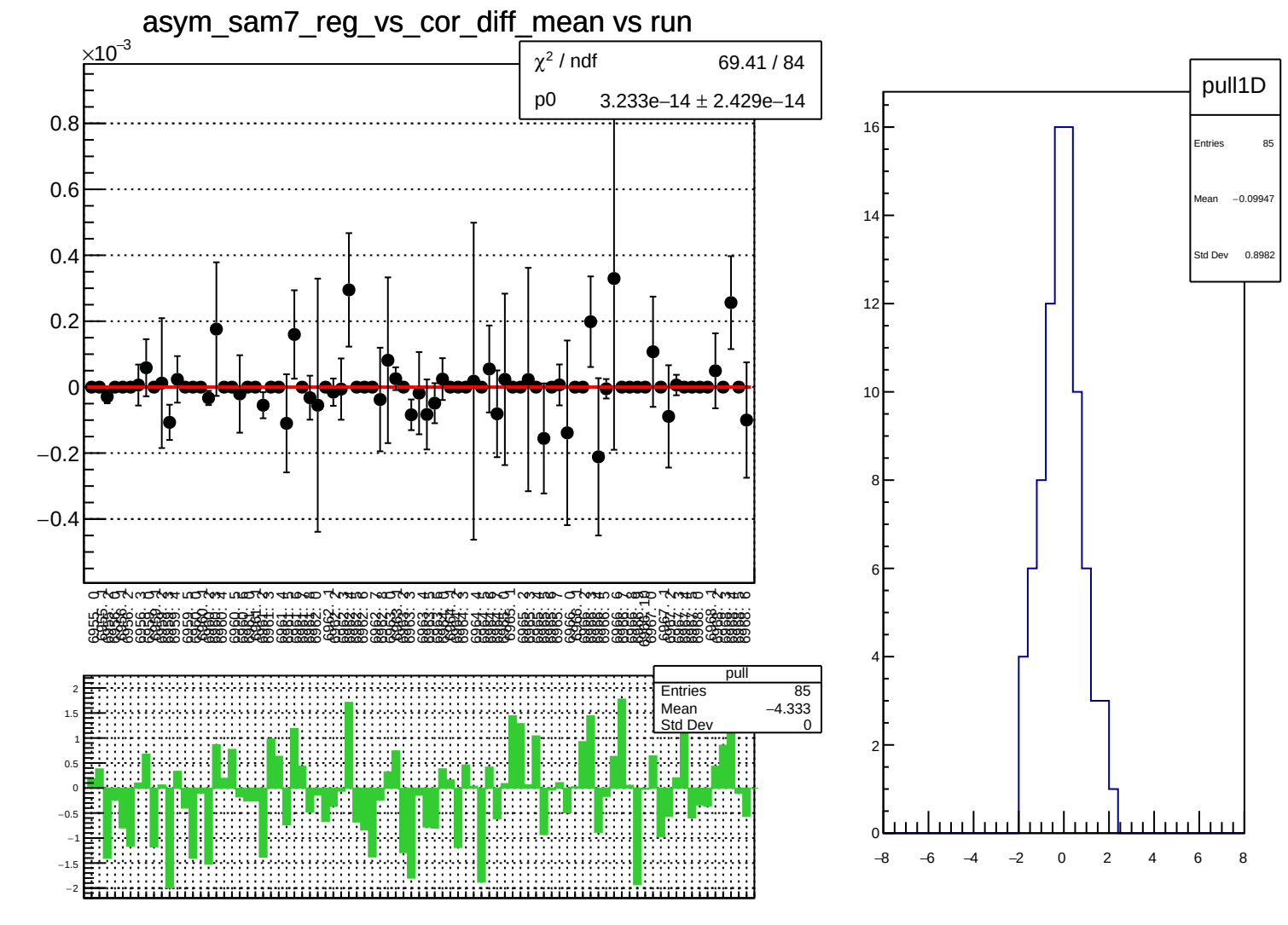

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 94.29 / 84
p0 −8.855 ± 497.5
pull
Entries 85
Mean −37.5
Std Dev 0
pull1D
Entries 85
Mean 0.01396
Std Dev 1.053

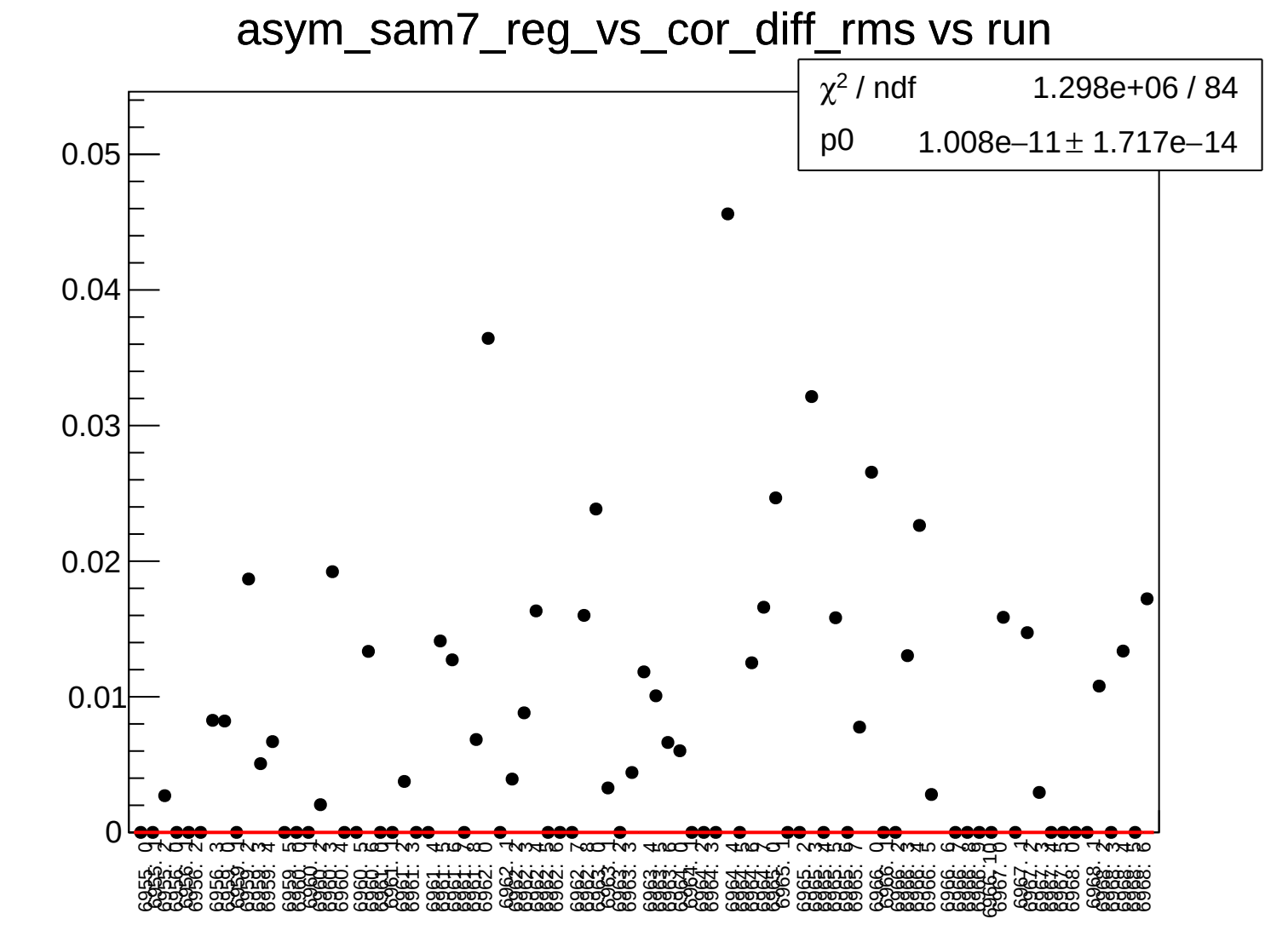

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 7925 / 84
p0 449.8 ± 0.3518
600
550
500
450
400

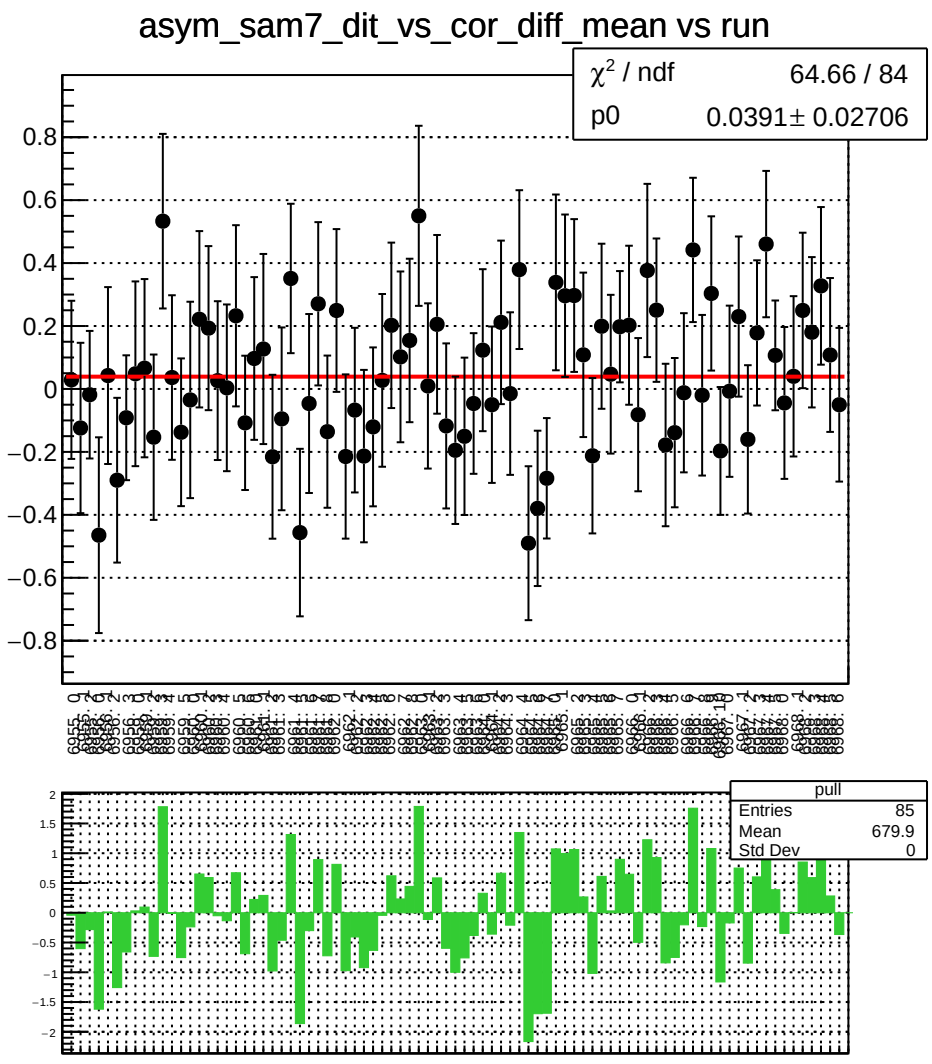

asym_sam7_mean vs run
χ² / ndf 99.08 / 84
p0 95.99 ± 505.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean −16.36
Std Dev 0
3
2
1
0
−1
−2

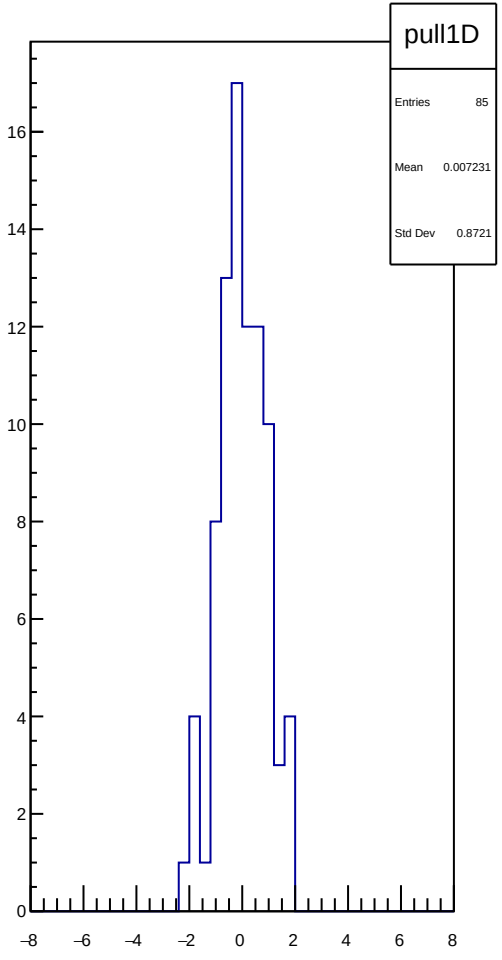

pull1D
Entries 85
Mean −0.01163
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

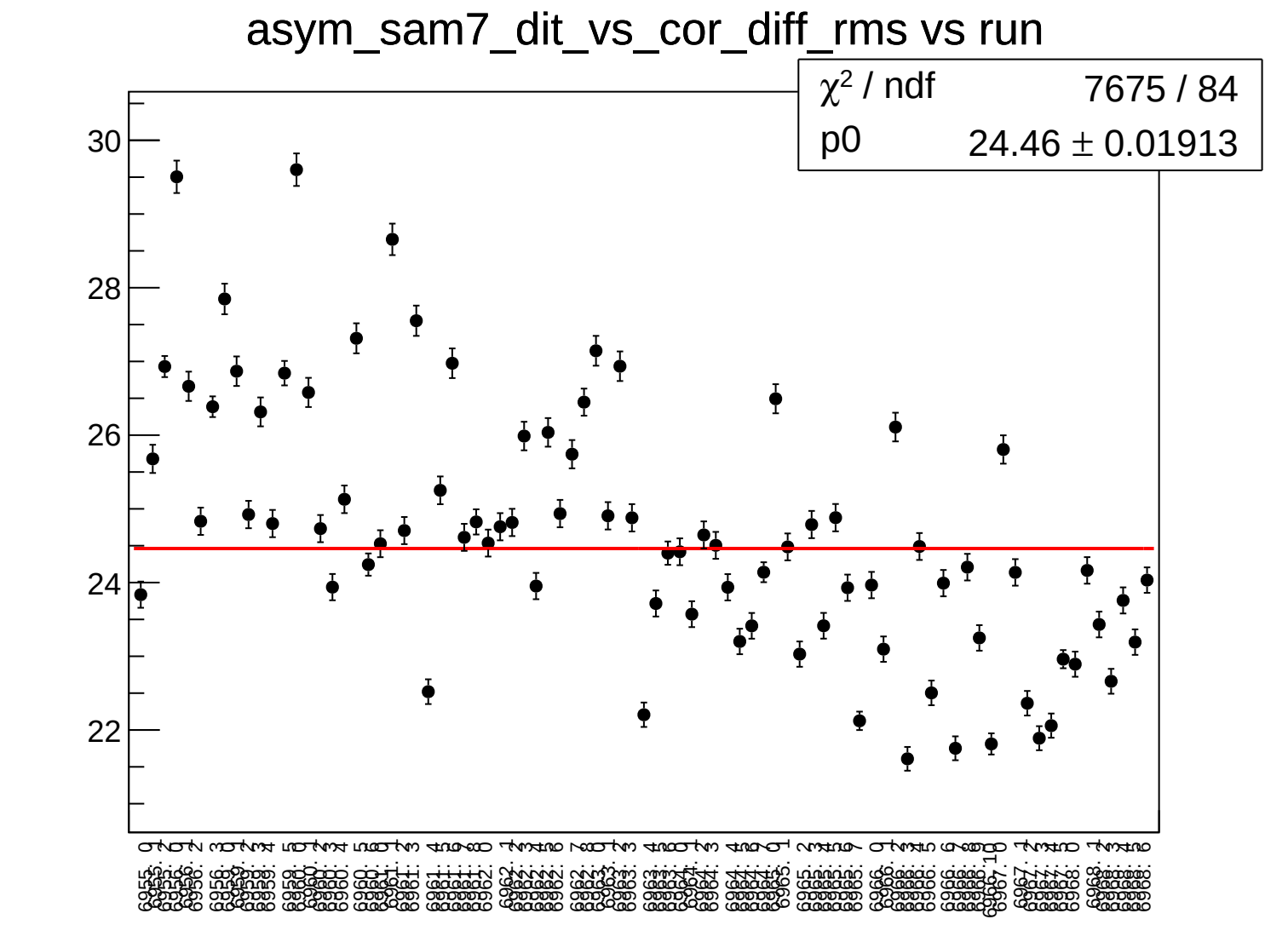

asym_sam7_rms vs run
$\chi^2$ / ndf 9222 / 84
p0 457 ± 0.3576
600
550
500
450
400

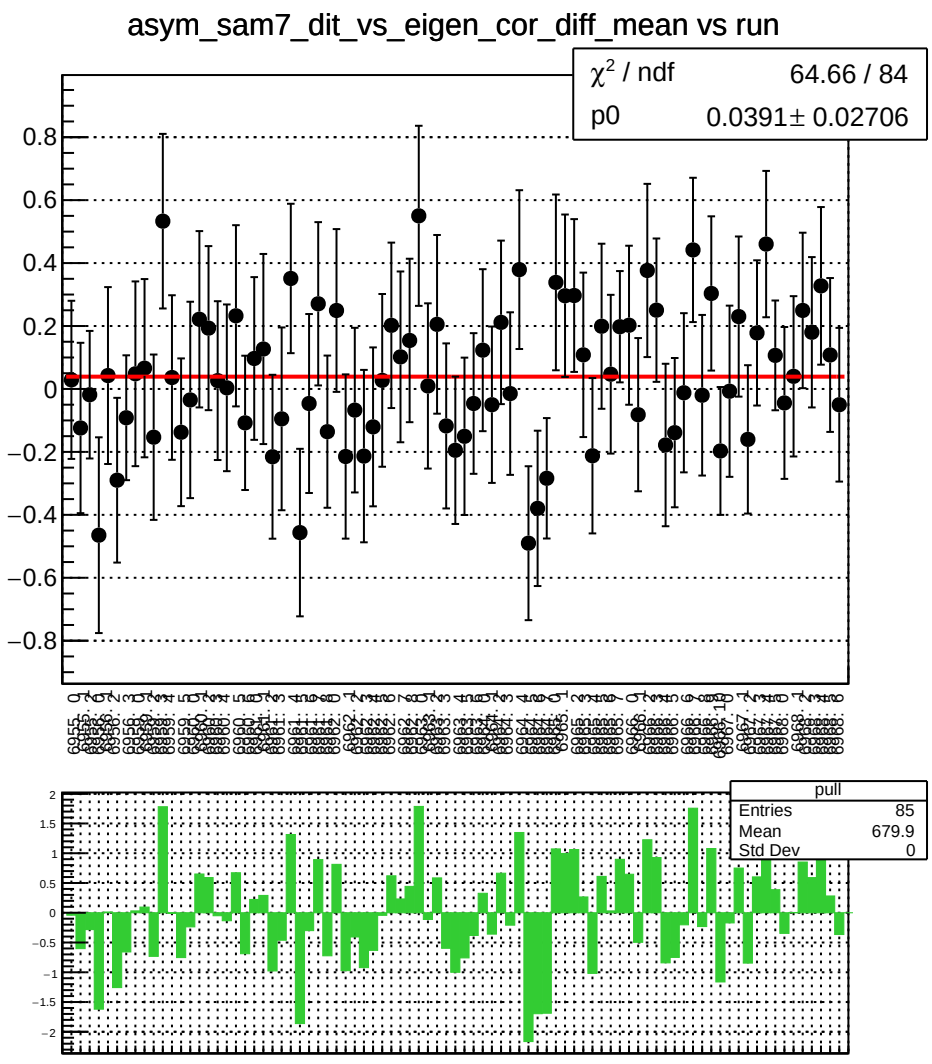

asym_sam7_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 69.41 / 84
p0 3.233e−14 ± 2.429e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 85
Mean −4.333
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.09947
Std Dev 0.8982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

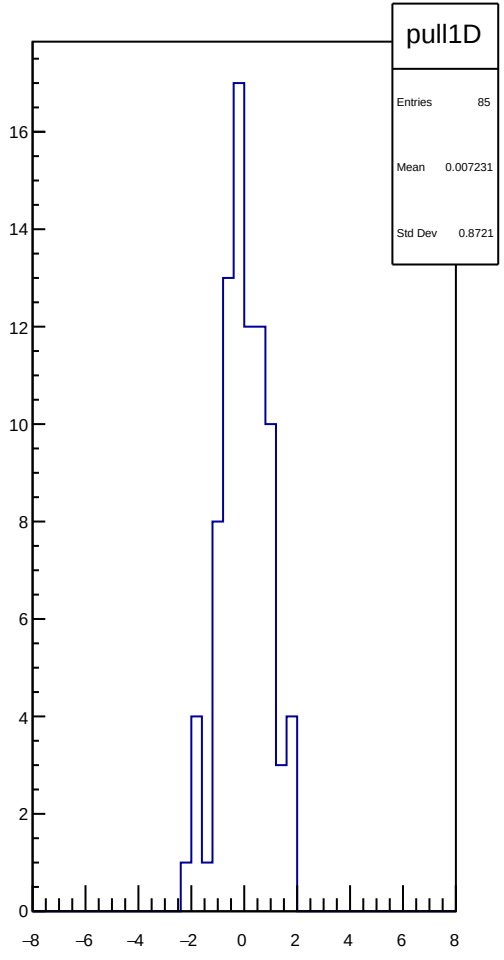

asym_sam7_reg_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.298e+06 / 84
p0 1.008e−11 ± 1.717e−14
0.05
0.04
0.03
0.02
0.01
0

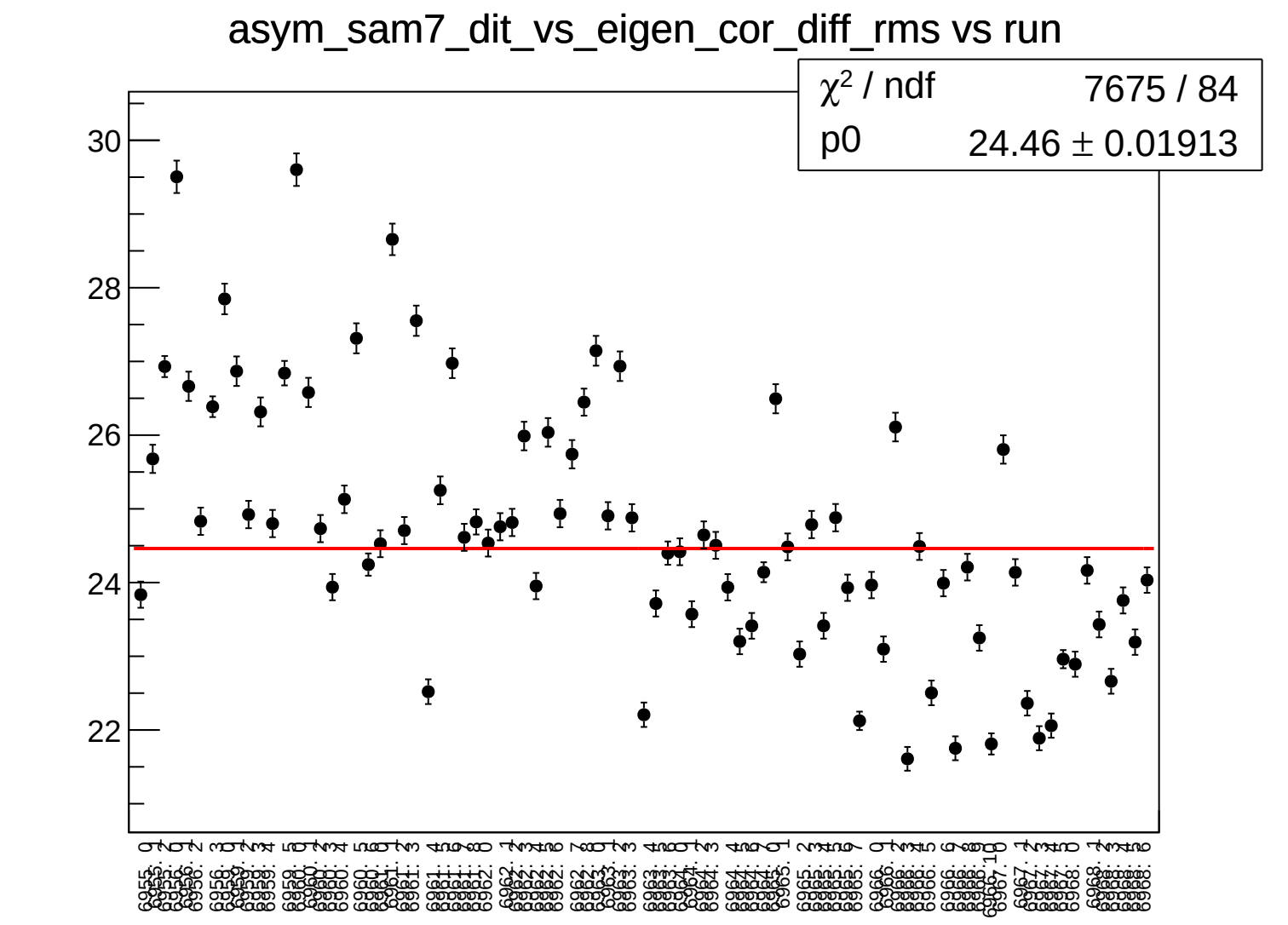

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 64.66 / 84
p0 0.0391± 0.02706
pull
Entries 85
Mean 679.9
Std Dev 0

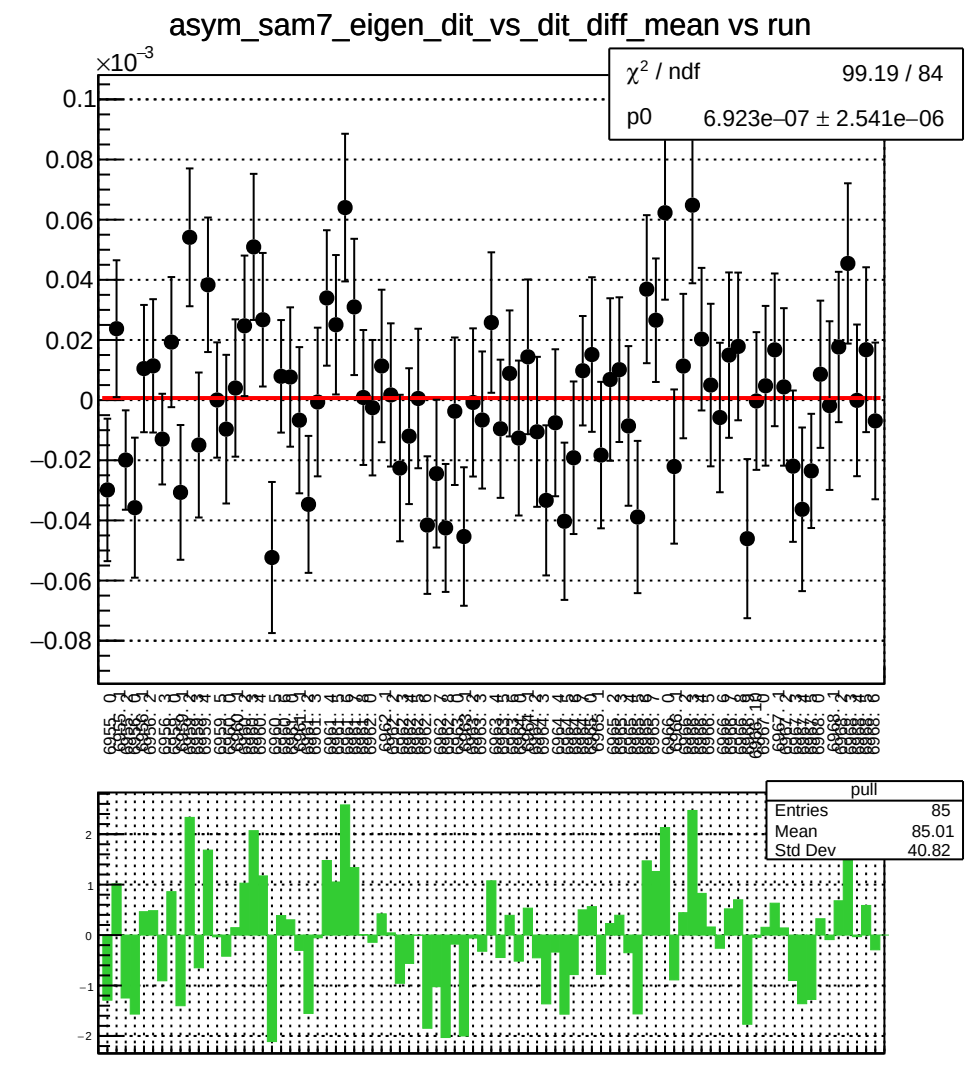

pull1D
Entries 85
Mean 0.007231
Std Dev 0.8721

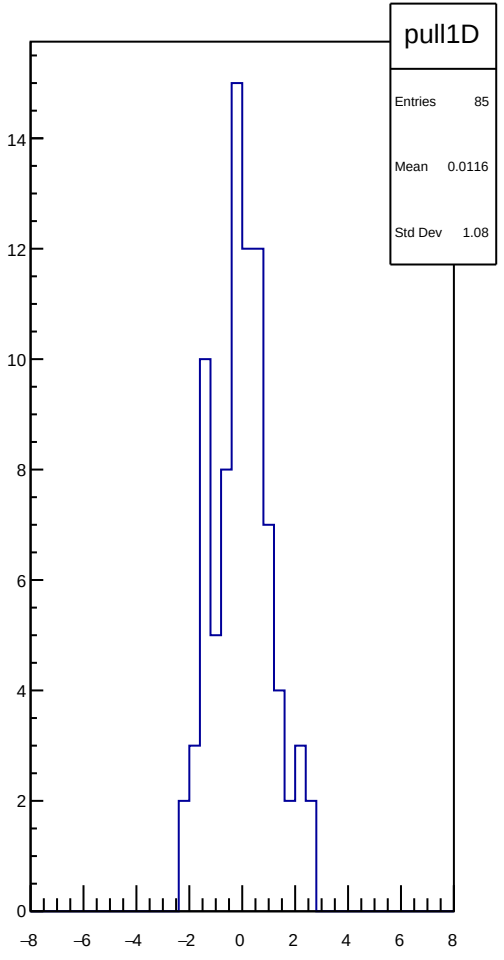

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 7675 / 84
p0 24.46 ± 0.01913
30
28
26
24
22

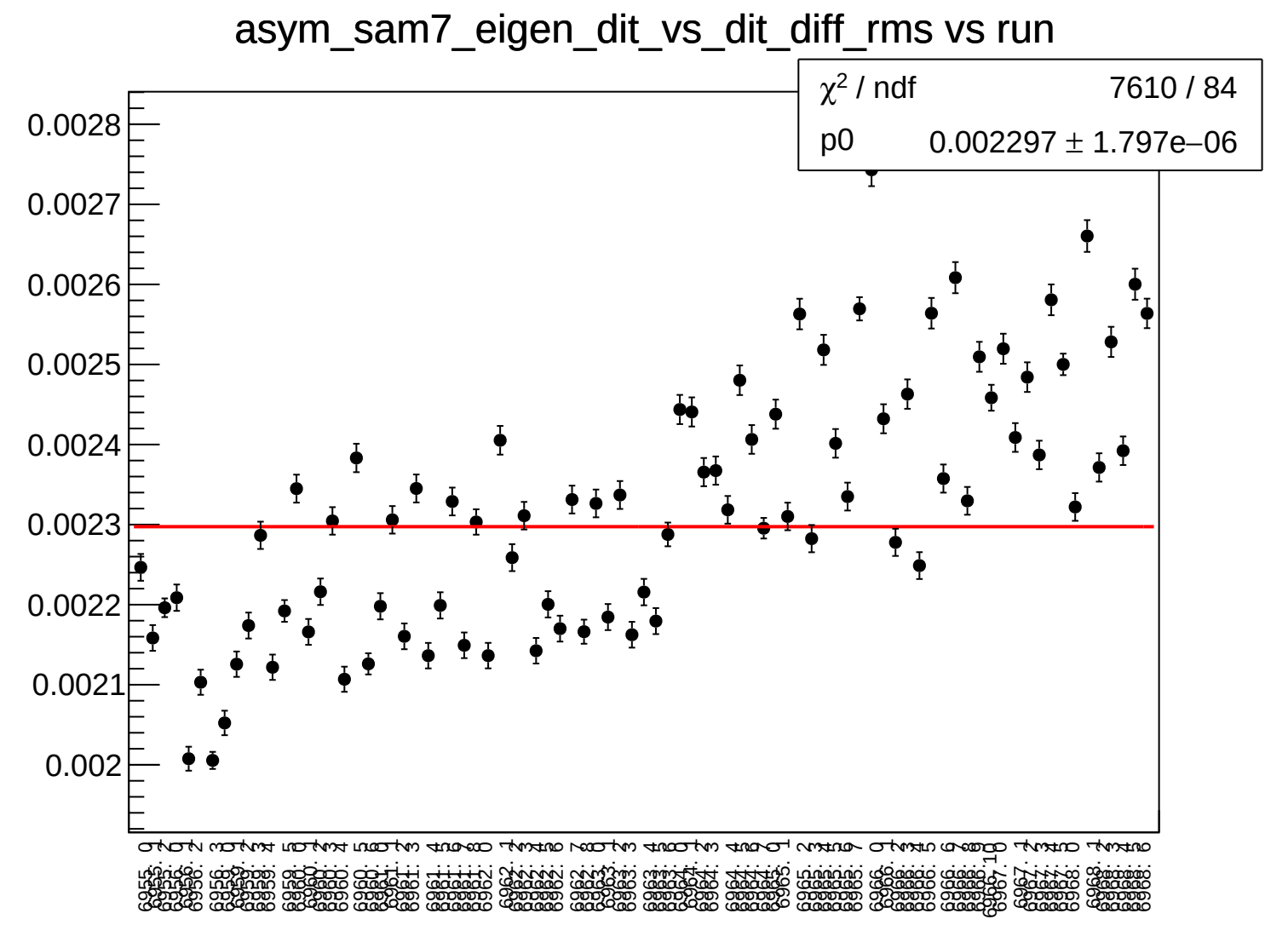

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.66 / 84
p0 0.0391± 0.02706
pull
Entries 85
Mean 679.9
Std Dev 0

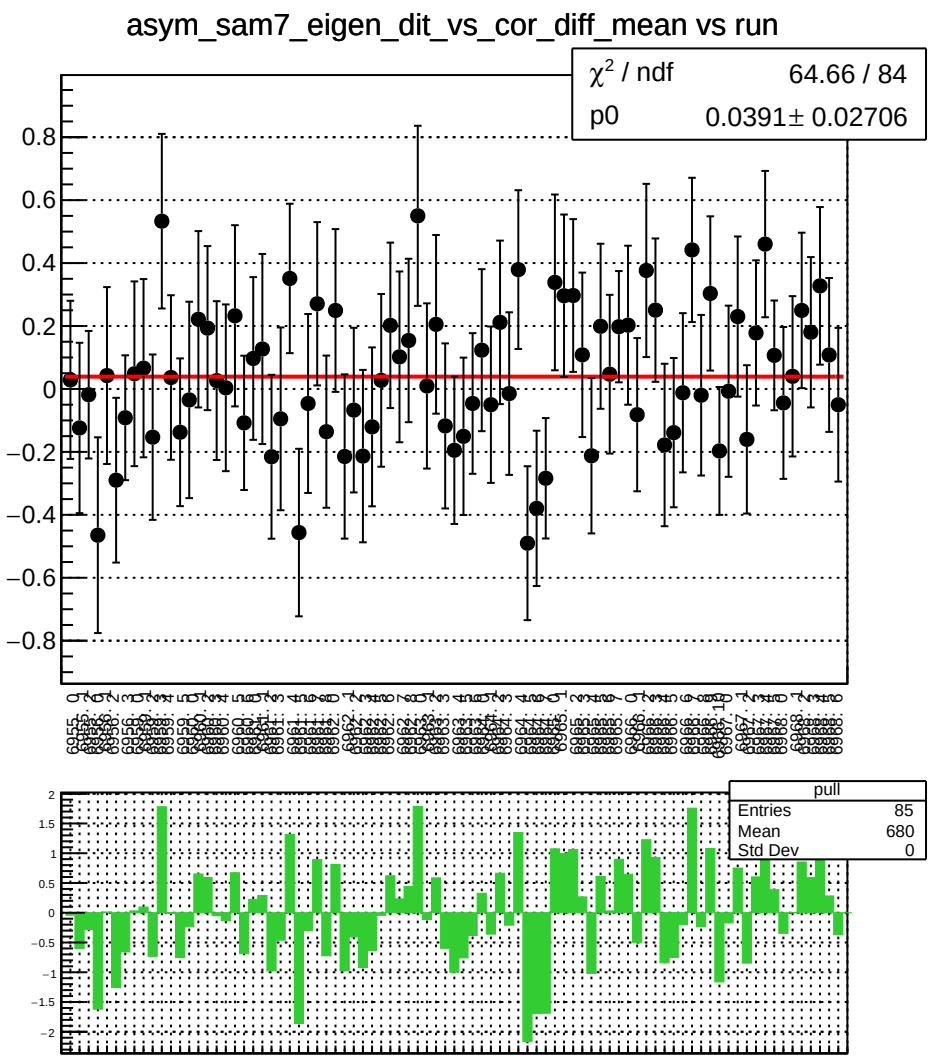

pull1D
Entries 85
Mean 0.007231
Std Dev 0.8721

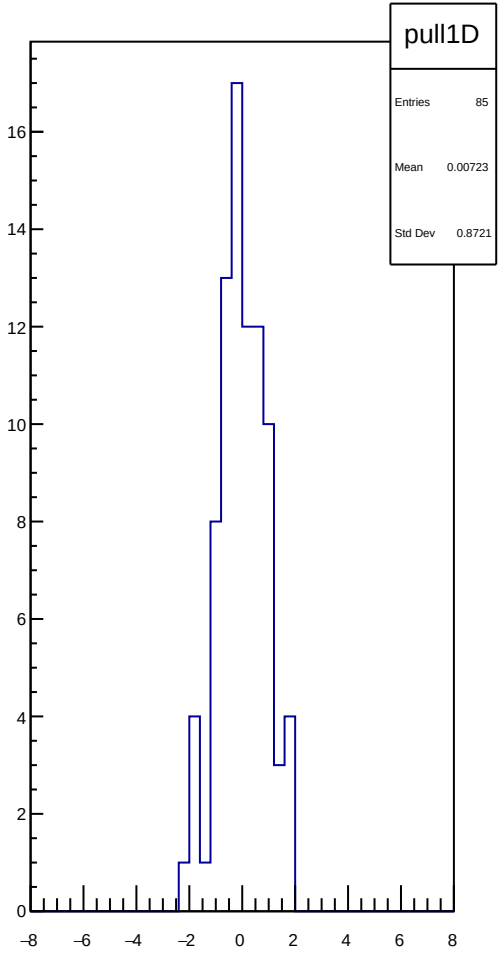

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7675 / 84
p0 24.46 ± 0.01913
30
28
26
24
22

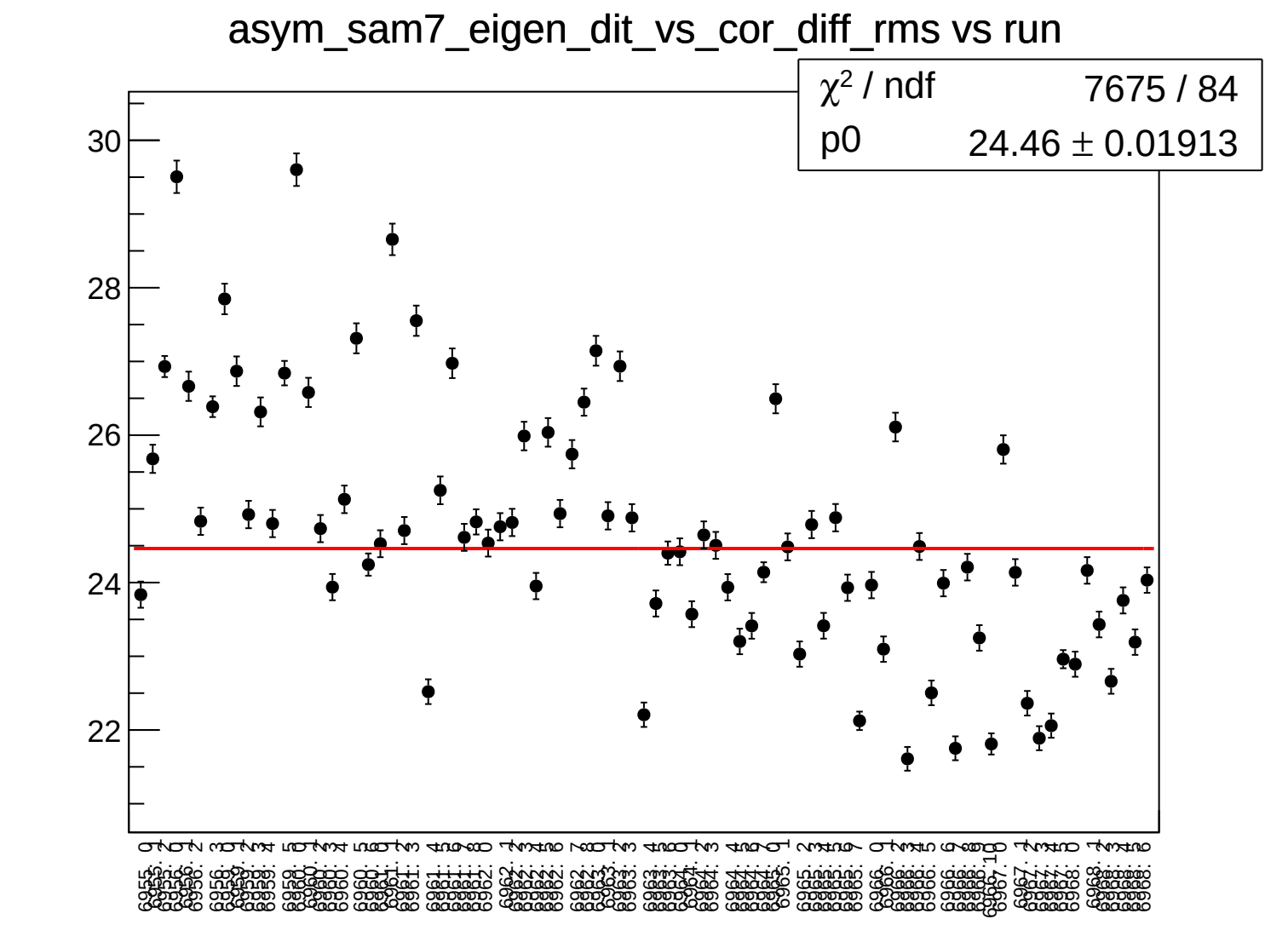

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.19 / 84
p0 6.923e−07 ± 2.541e−06
pull
Entries 85
Mean 85.01
Std Dev 40.82

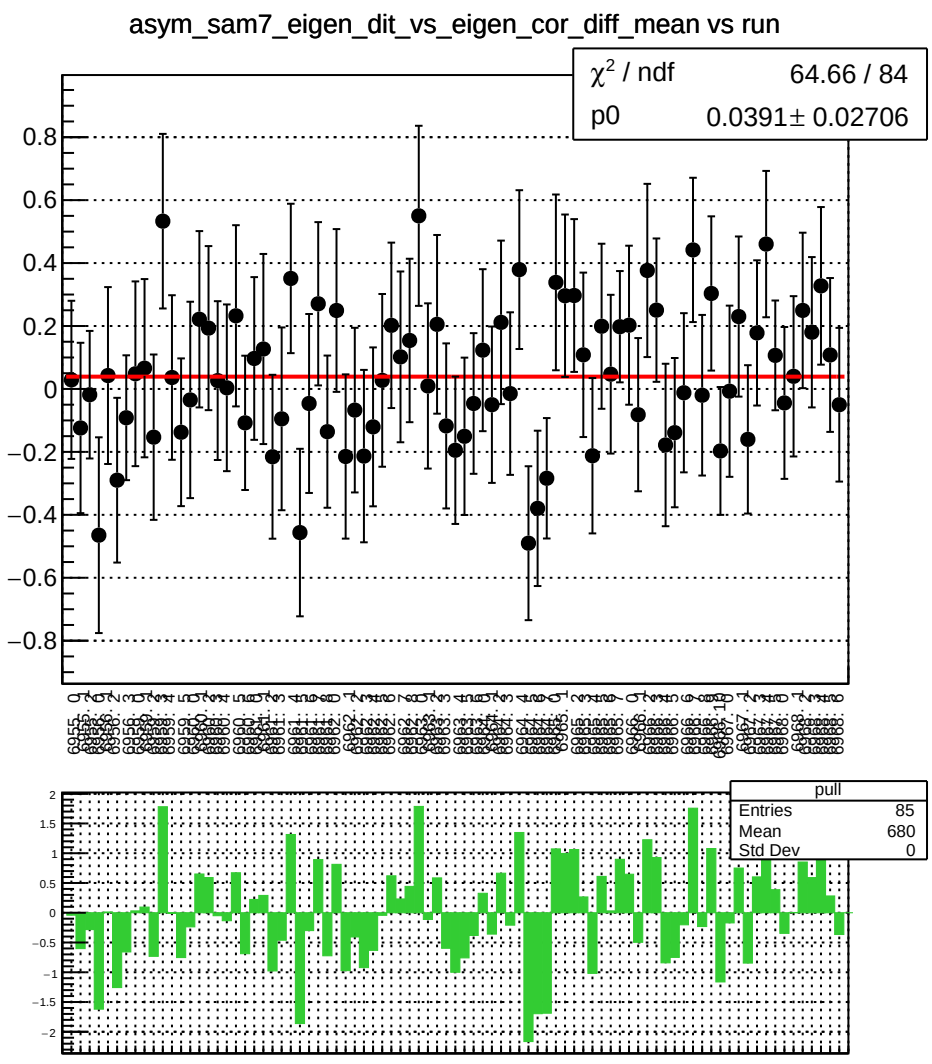

pull1D
Entries 85
Mean 0.0116
Std Dev 1.08

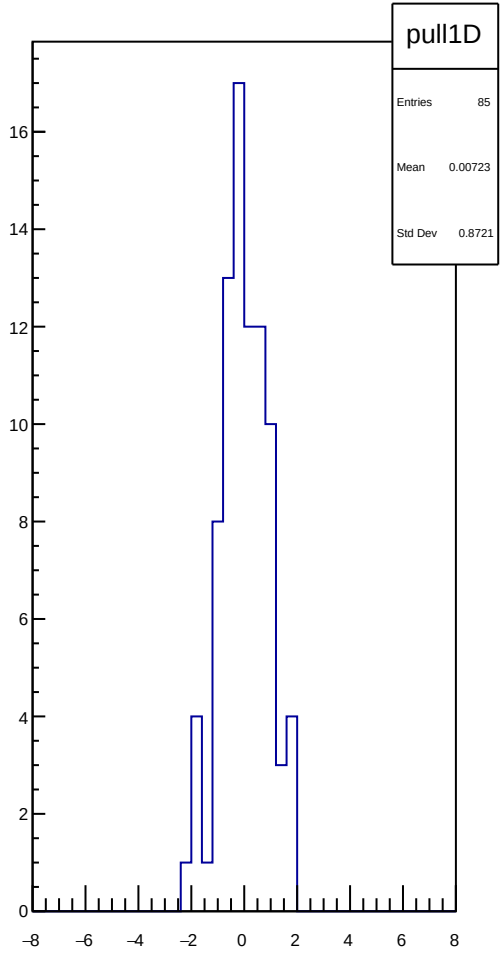

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7610 / 84
p0 0.002297 ± 1.797e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

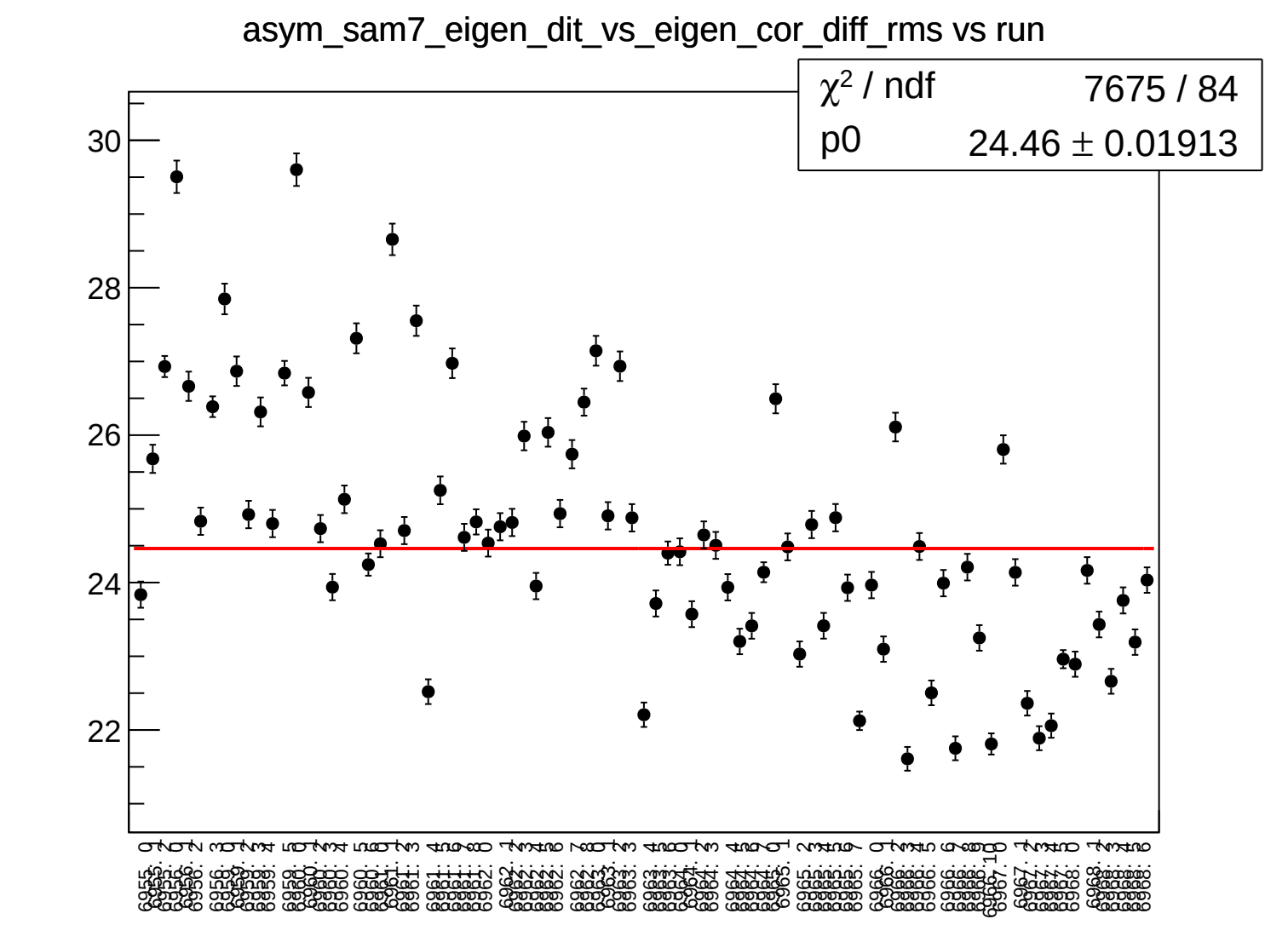

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.66 / 84
p0 0.0391± 0.02706
pull
Entries 85
Mean 680
Std Dev 0

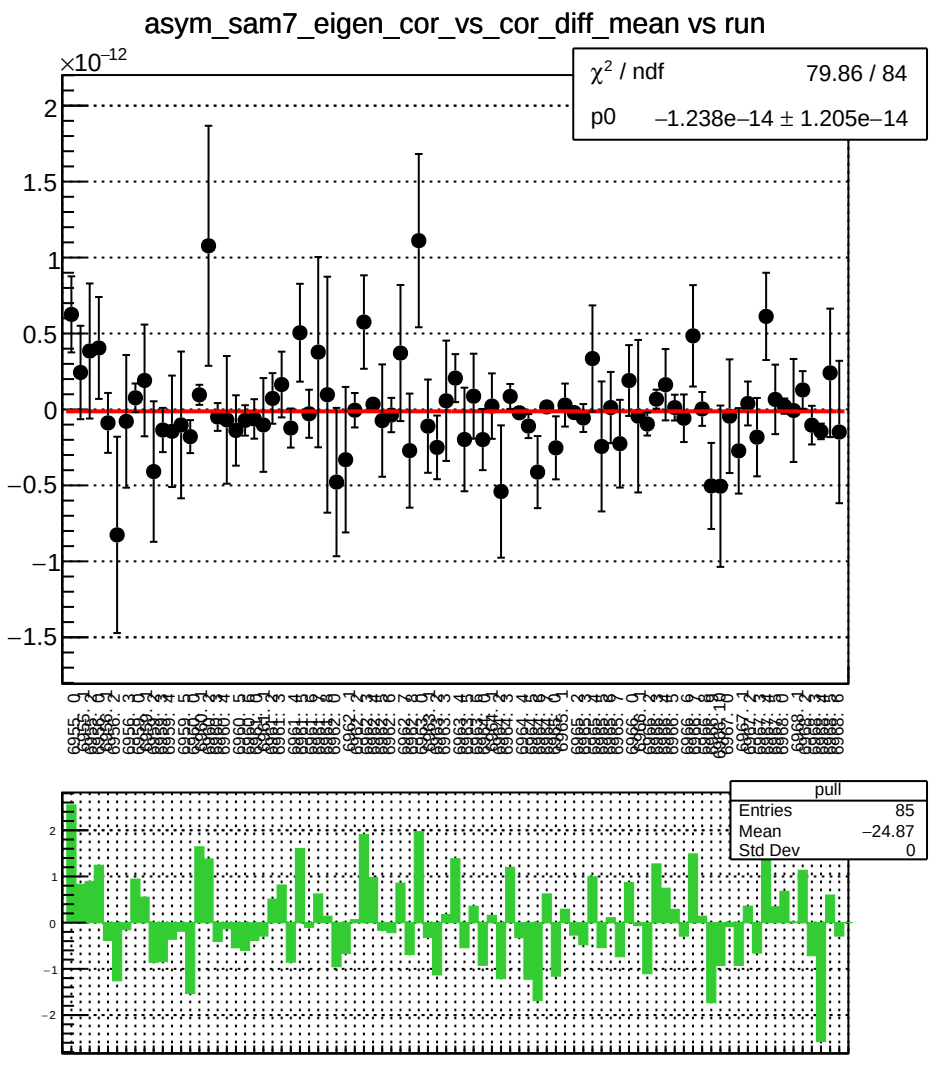

pull1D
Entries 85
Mean 0.00723
Std Dev 0.8721

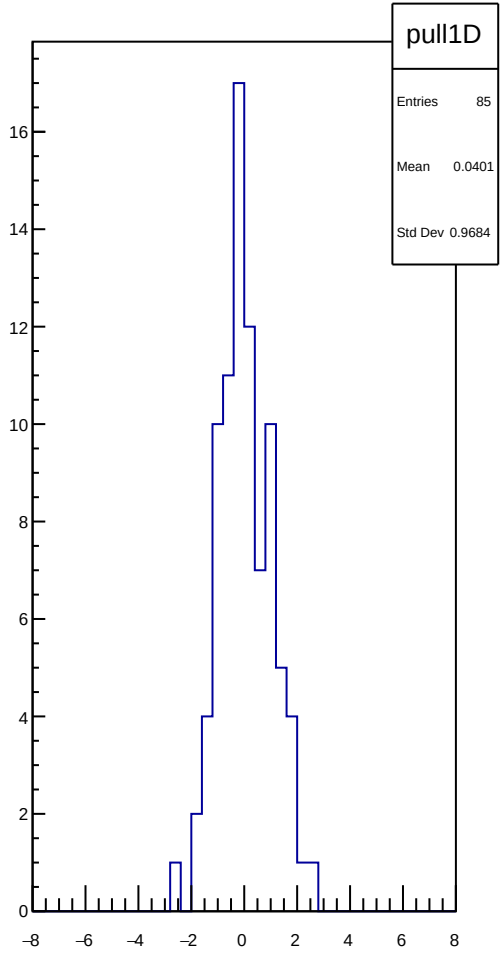

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7675 / 84
p0 24.46 ± 0.01913
30
28
26
24
22

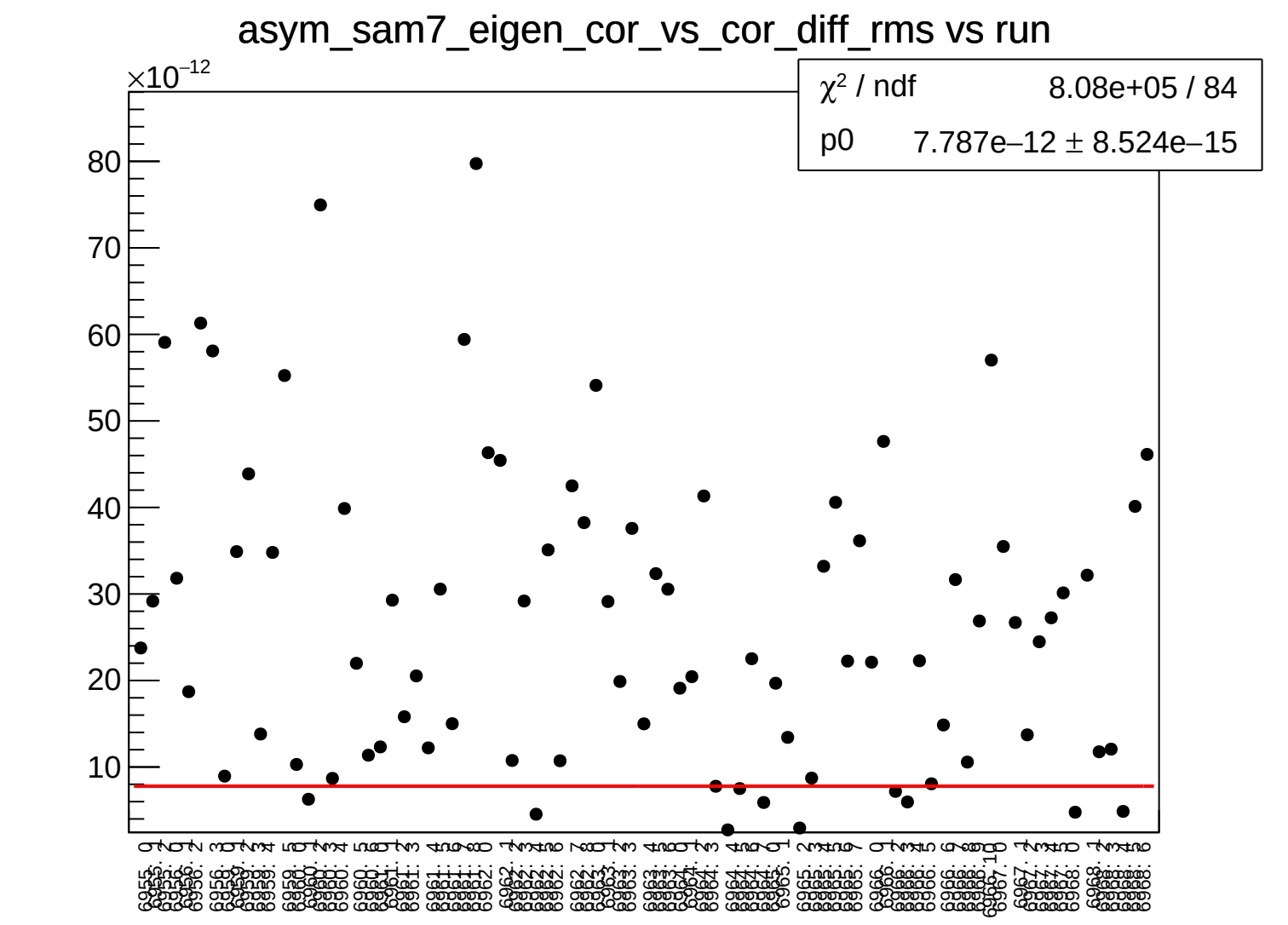

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.66 / 84
p0 0.0391± 0.02706
pull
Entries 85
Mean 680
Std Dev 0

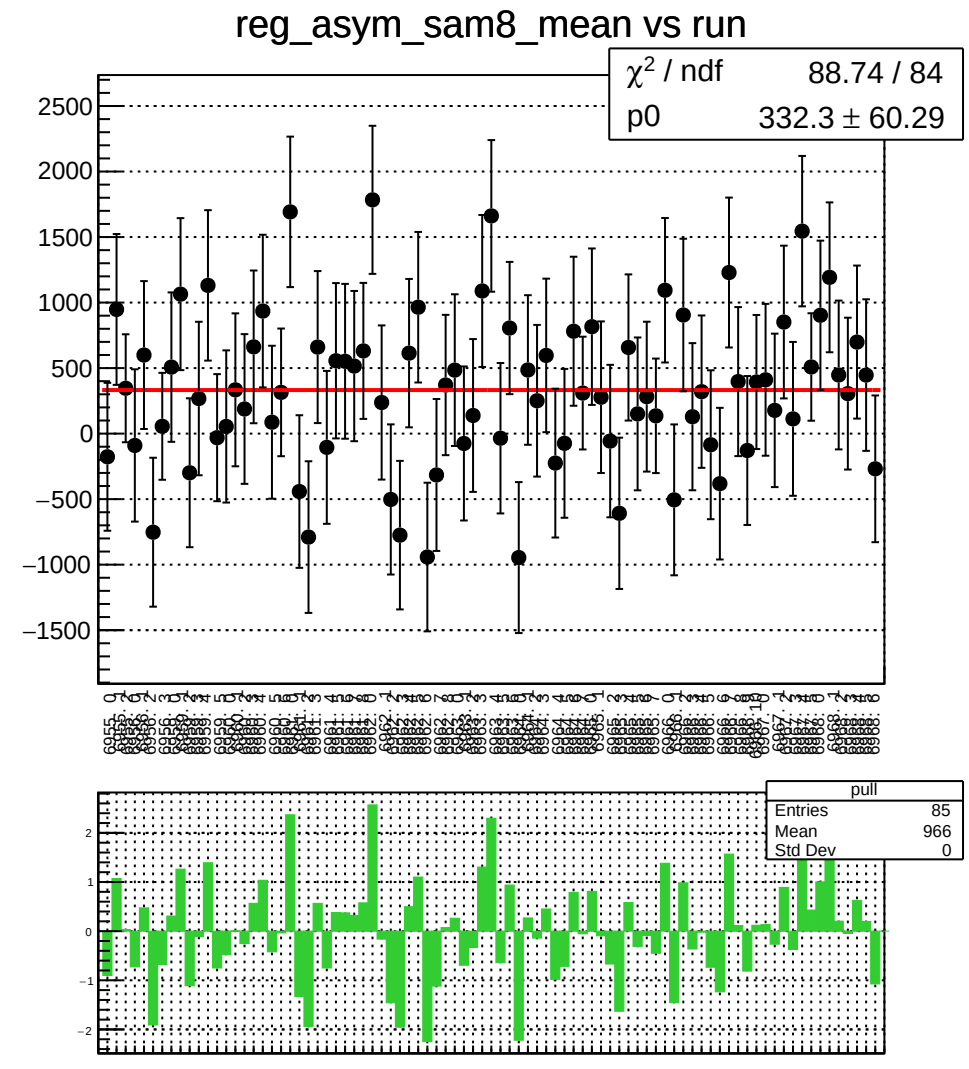

pull1D
Entries 85
Mean 0.00723
Std Dev 0.8721

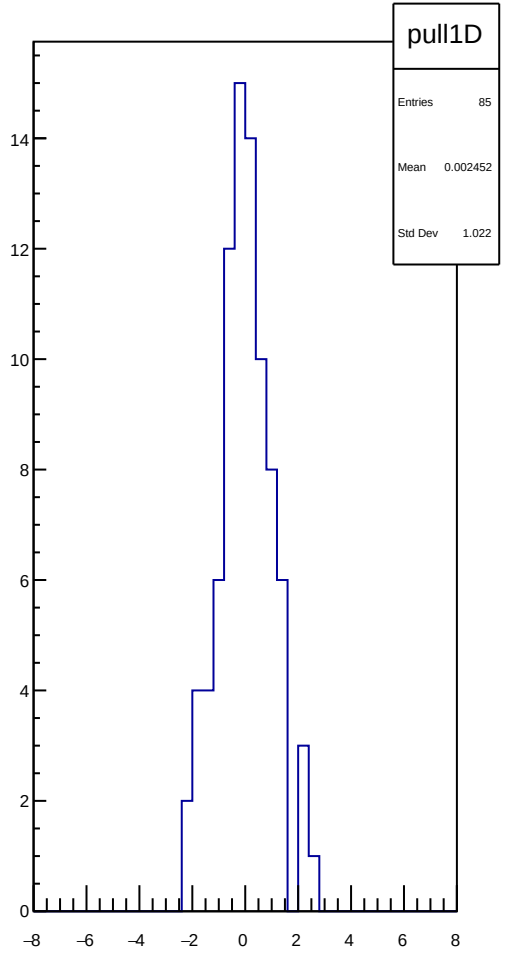

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7675 / 84
p0 24.46 ± 0.01913
30
28
26
24
22

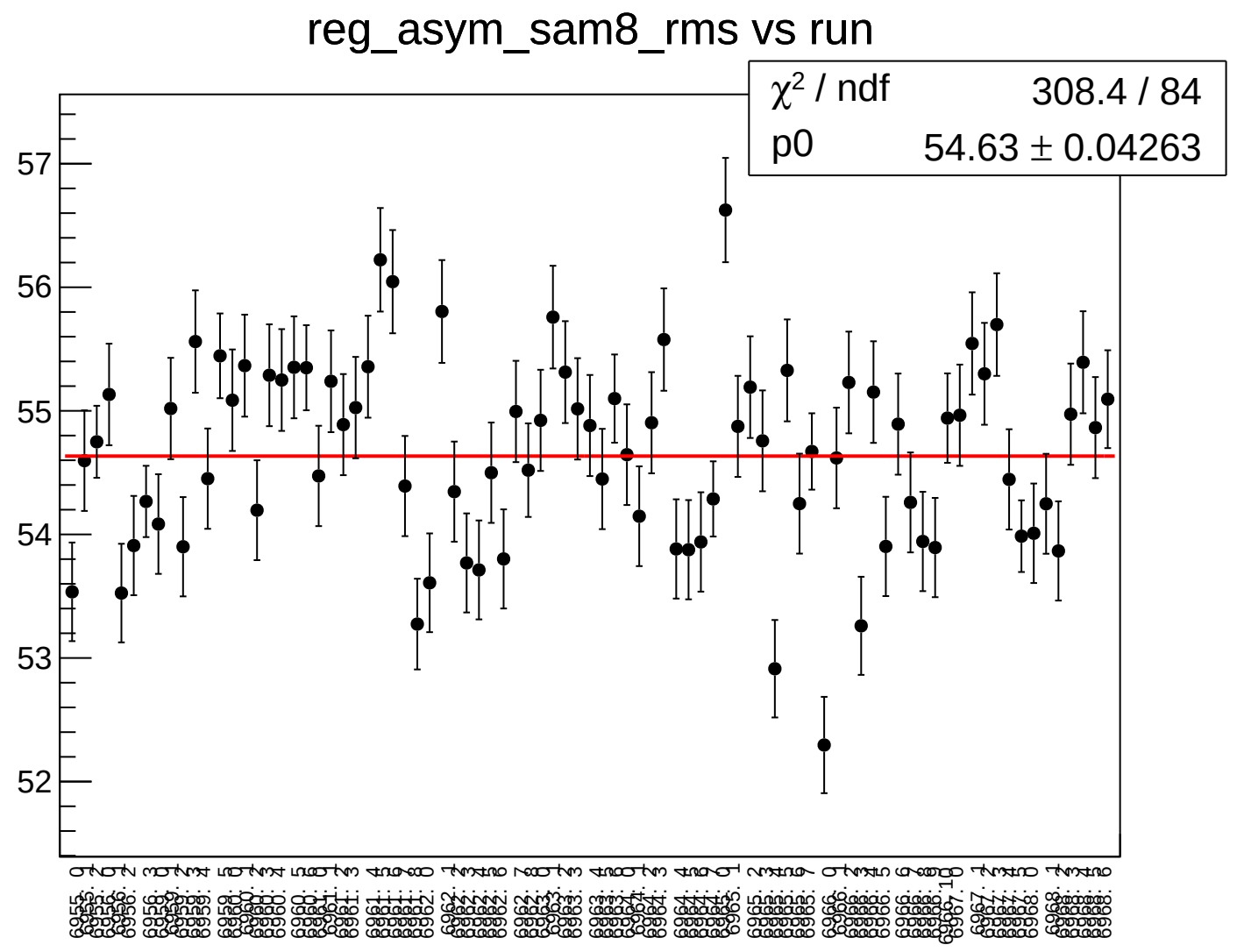

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.86 / 84
p0 −1.238e−14 ± 1.205e−14
pull
Entries 85
Mean −24.87
Std Dev 0

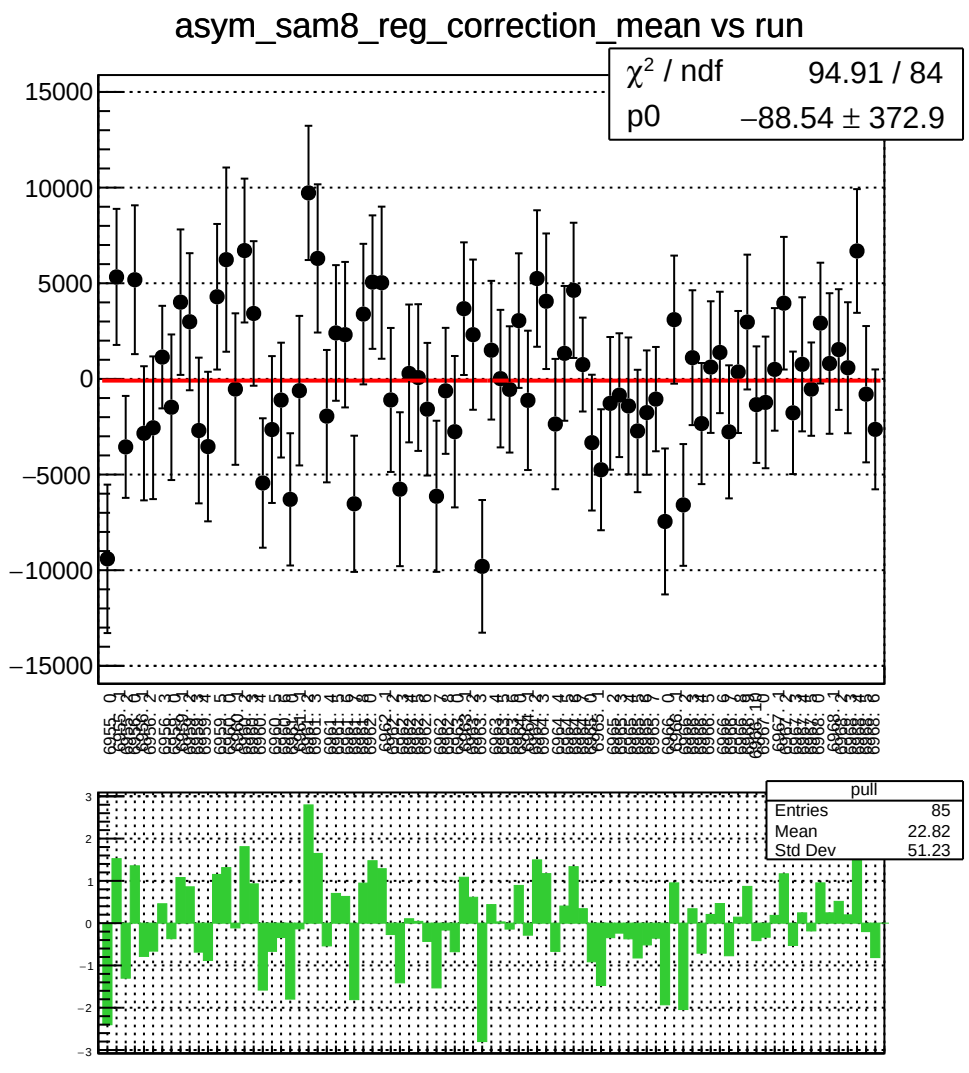

pull1D
Entries 85
Mean 0.0401
Std Dev 0.9684

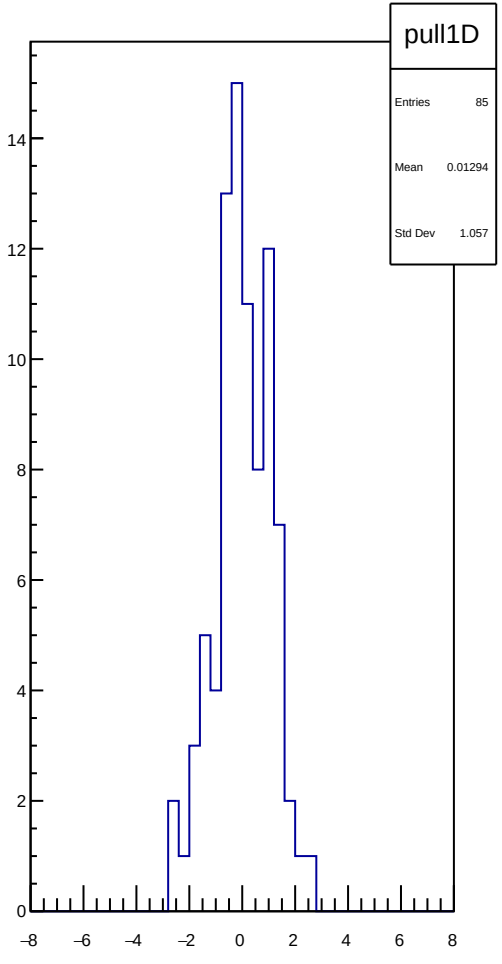

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.08e+05 / 84
p0 7.787e−12 ± 8.524e−15
80
70
60
50
40
30
20
10

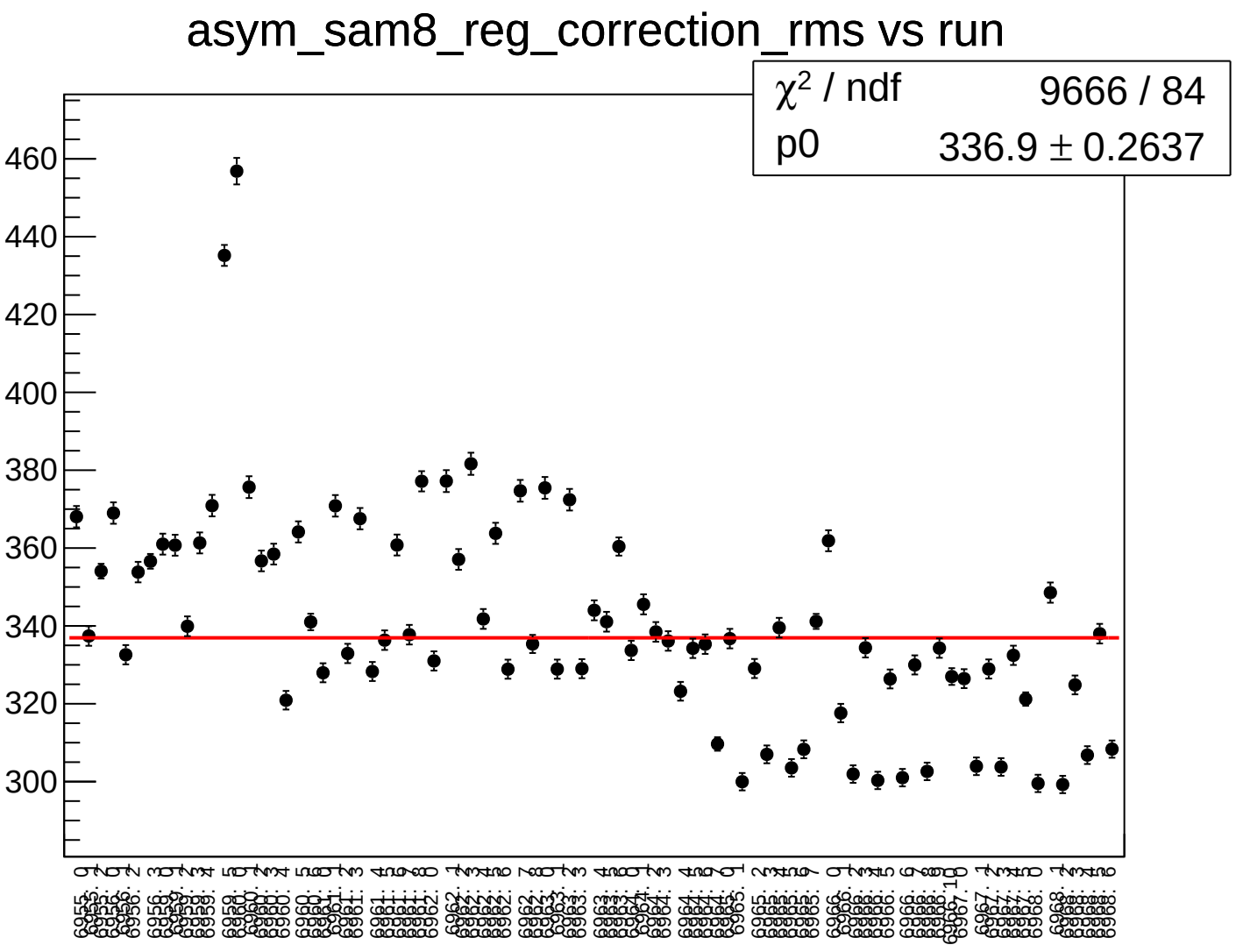

reg_asym_sam8_mean vs run
χ² / ndf 88.74 / 84
p0 332.3 ± 60.29
pull
Entries 85
Mean 966
Std Dev 0

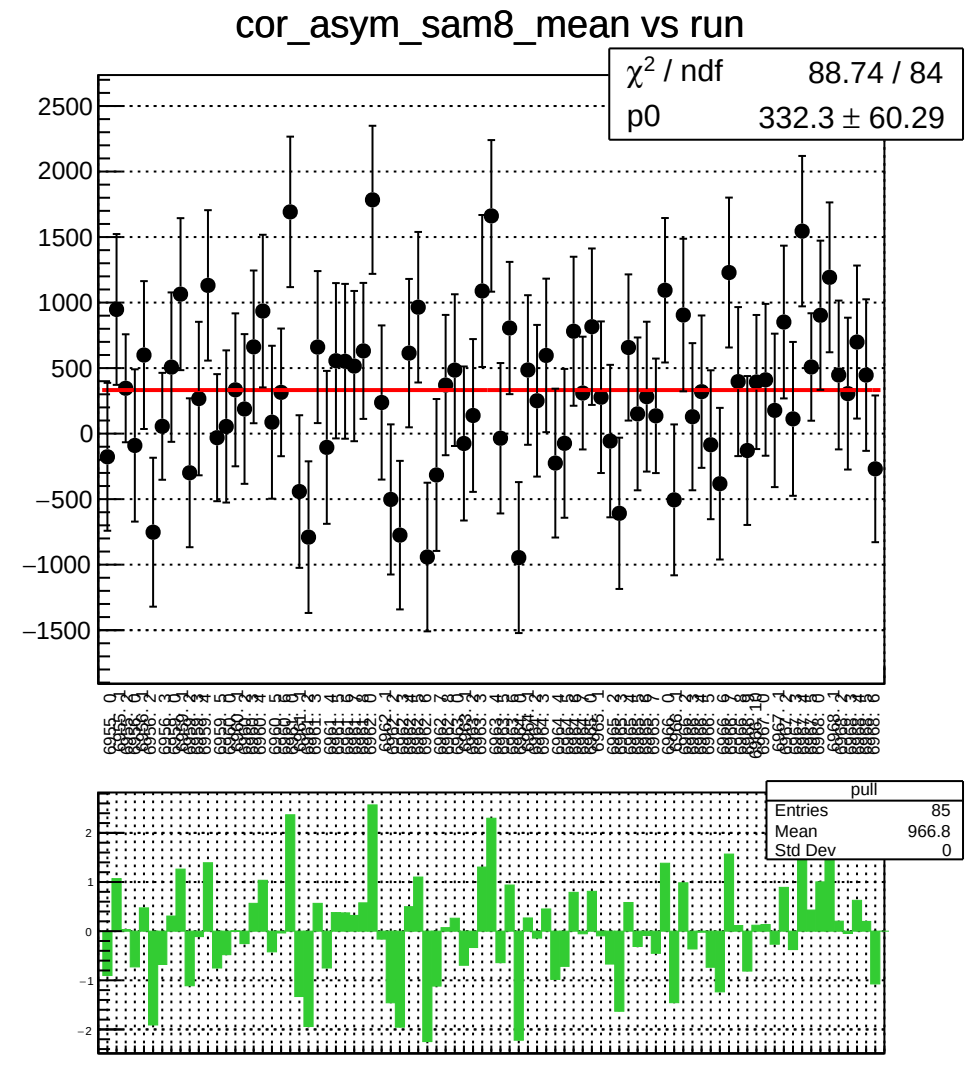

pull1D
Entries 85
Mean 0.002452
Std Dev 1.022

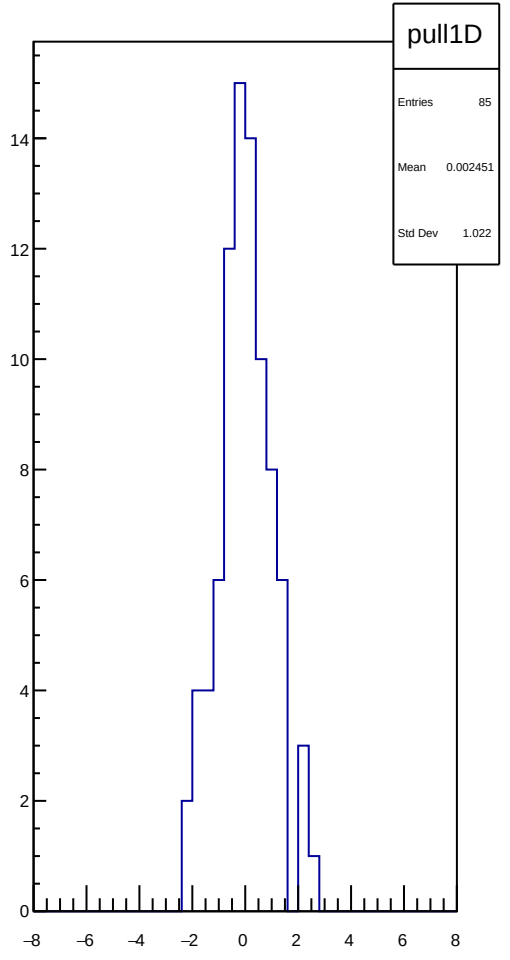

reg_asym_sam8_rms vs run
χ² / ndf 308.4 / 84
p0 54.63 ± 0.04263
57
56
55
54
53
52

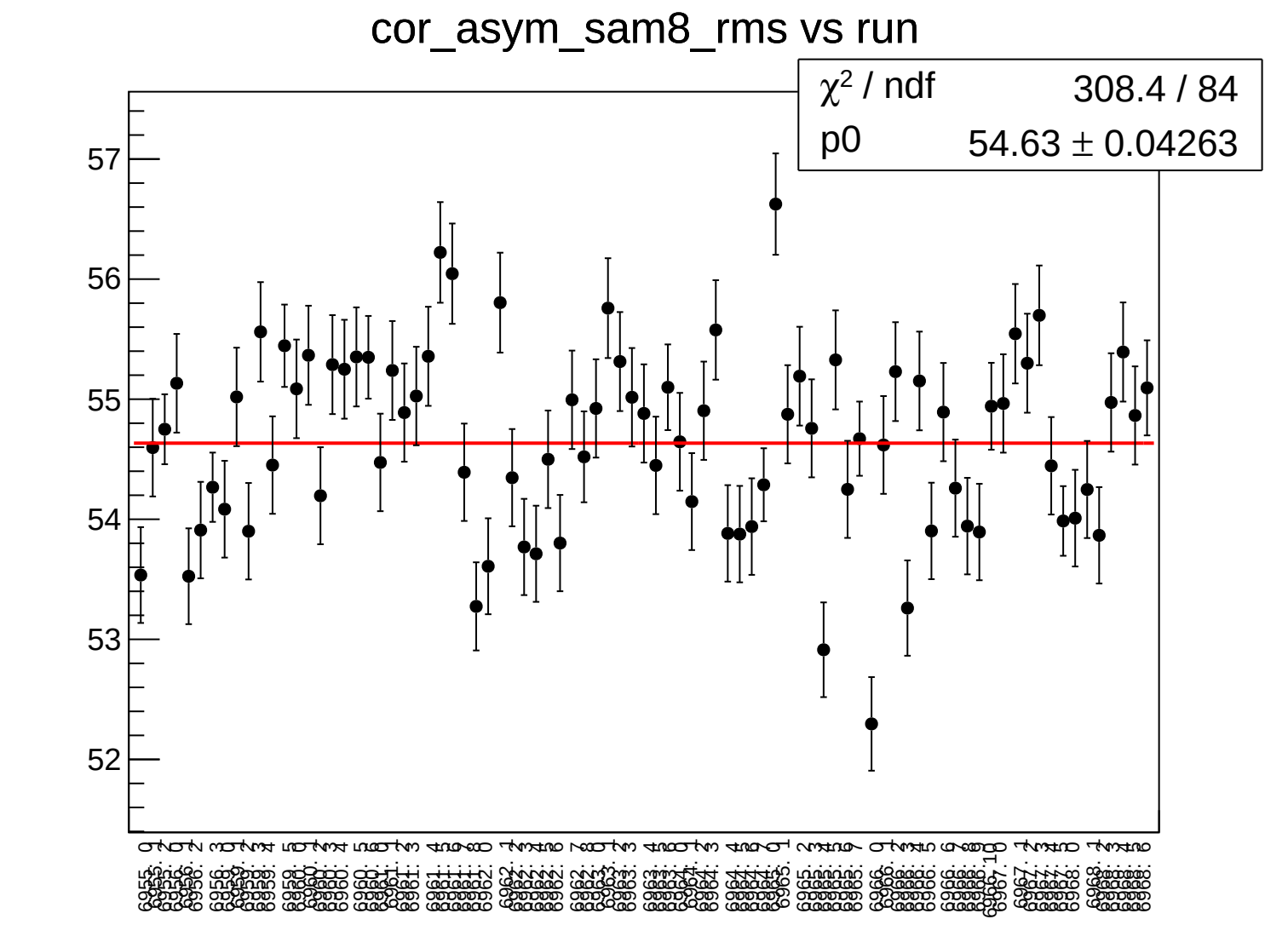

asym_sam8_reg_correction_mean vs run
χ² / ndf 94.91 / 84
p0 −88.54 ± 372.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 22.82
Std Dev 51.23
3
2
1
0
−1
−2
−3

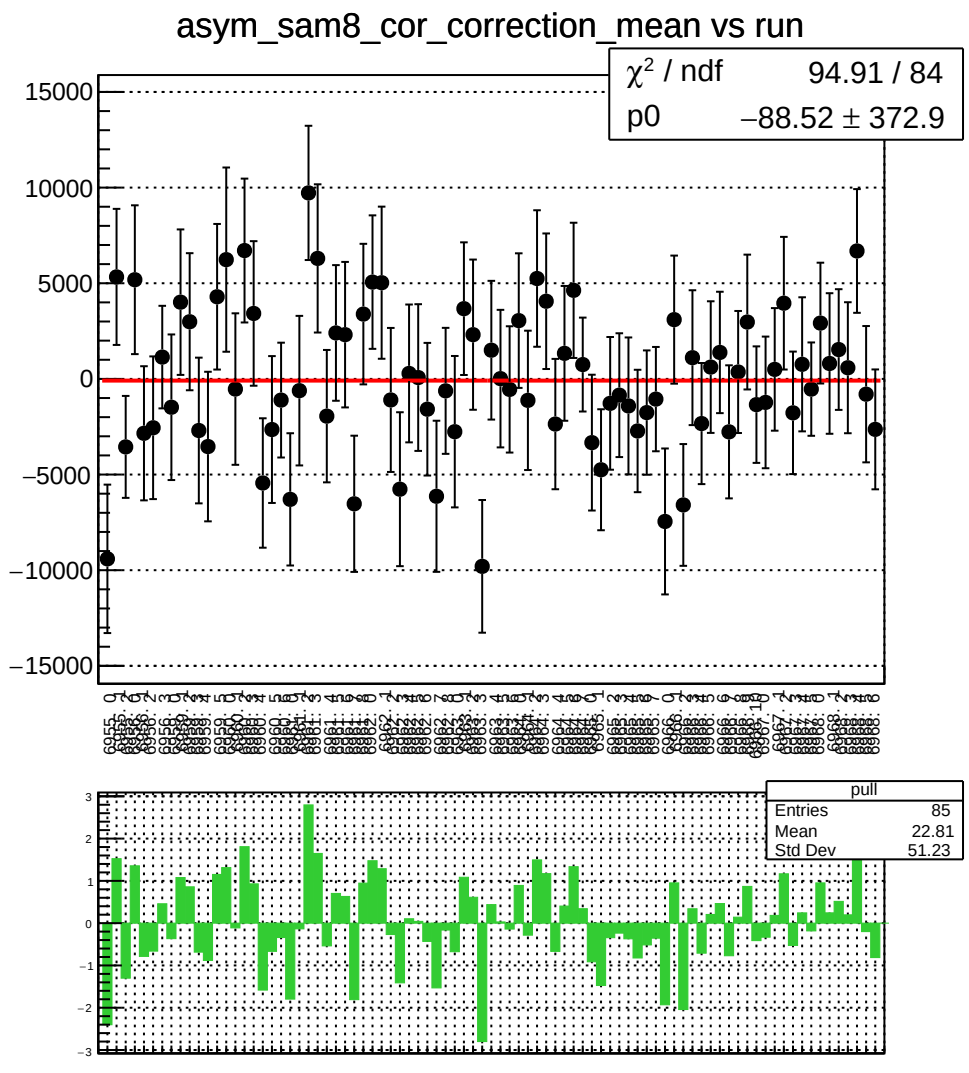

pull1D
Entries 85
Mean 0.01294
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

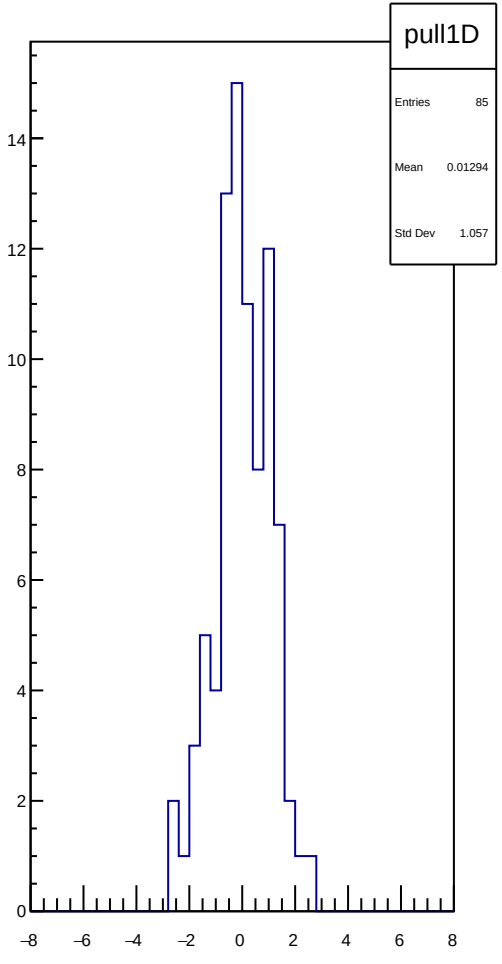

asym_sam8_reg_correction_rms vs run
χ² / ndf 9666 / 84
p0 336.9 ± 0.2637
460
440
420
400
380
360
340
320
300

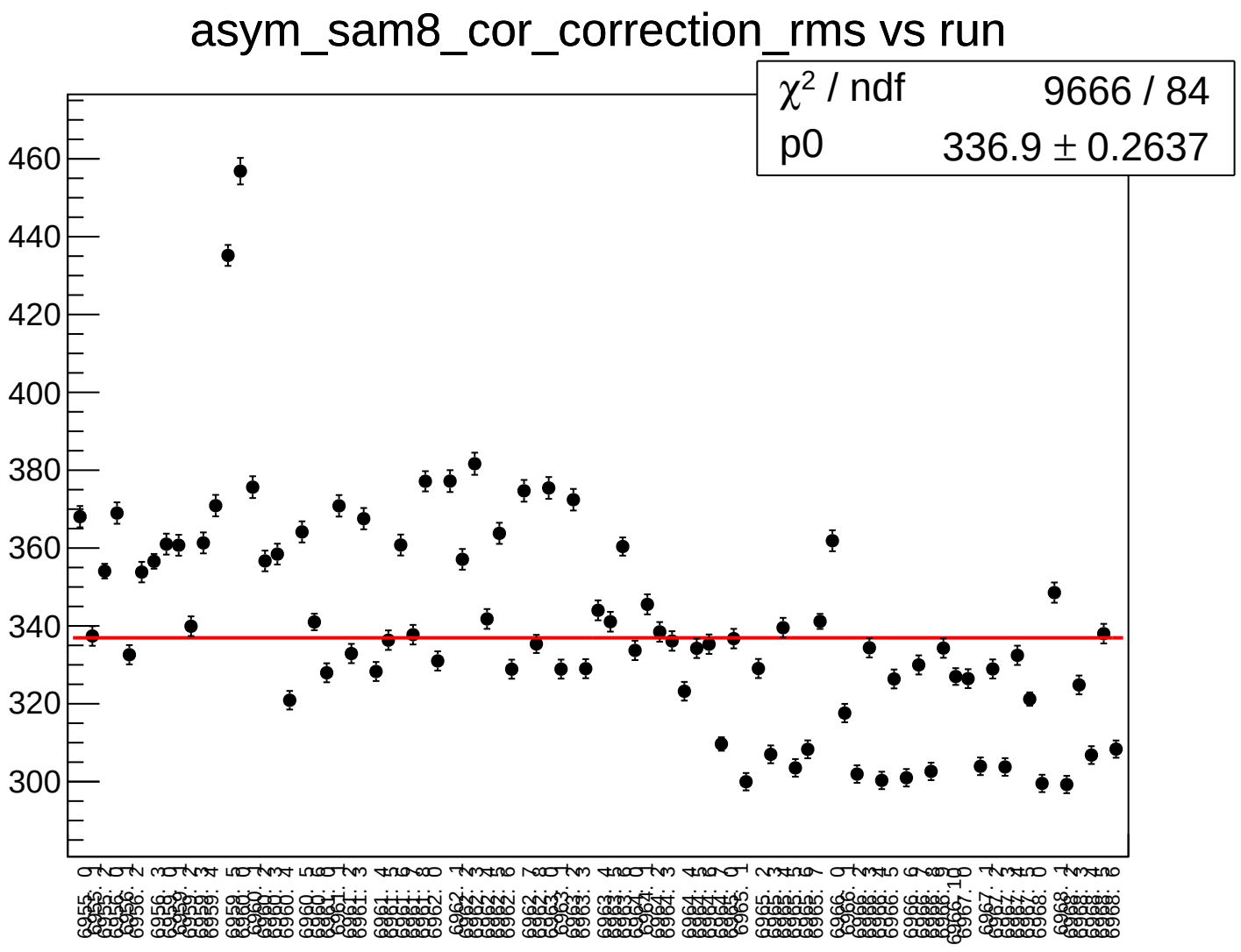

cor_asym_sam8_mean vs run
χ² / ndf 88.74 / 84
p0 332.3 ± 60.29
pull
Entries 85
Mean 966.8
Std Dev 0

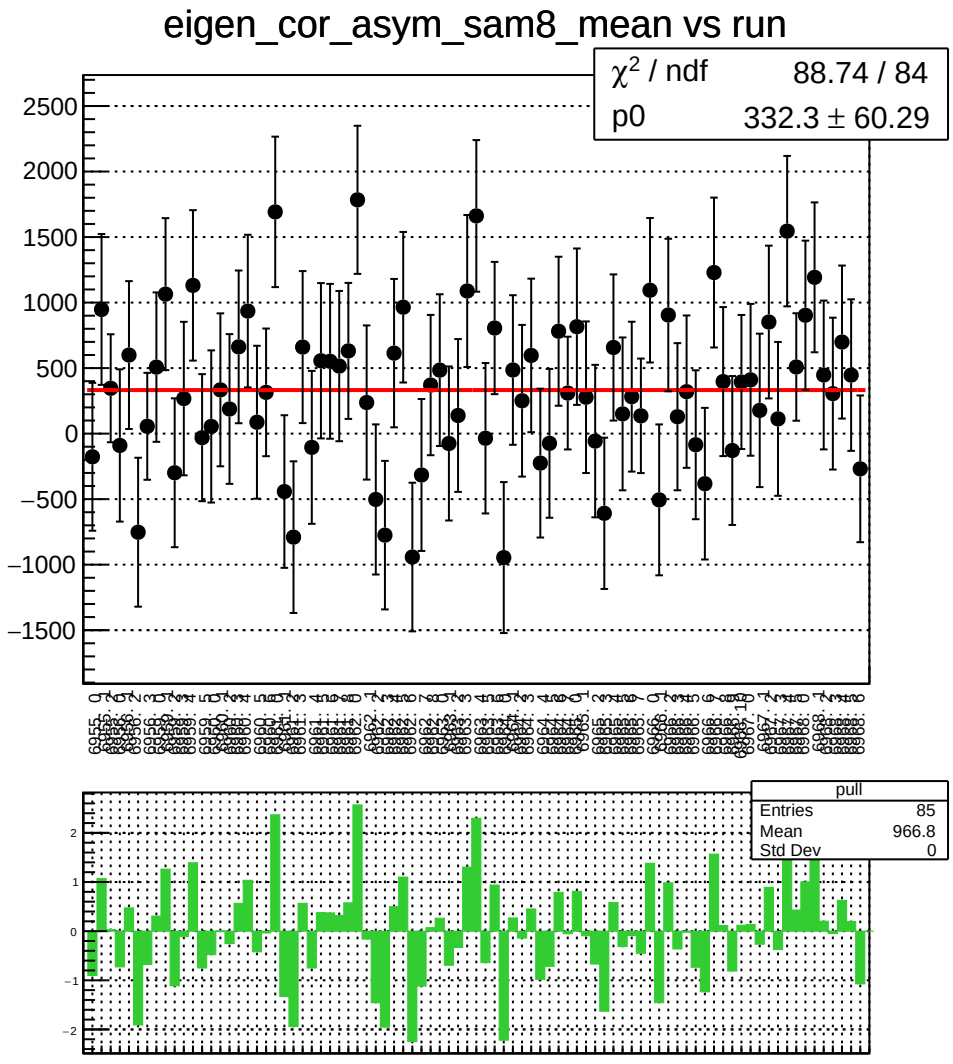

pull1D
Entries 85
Mean 0.002451
Std Dev 1.022

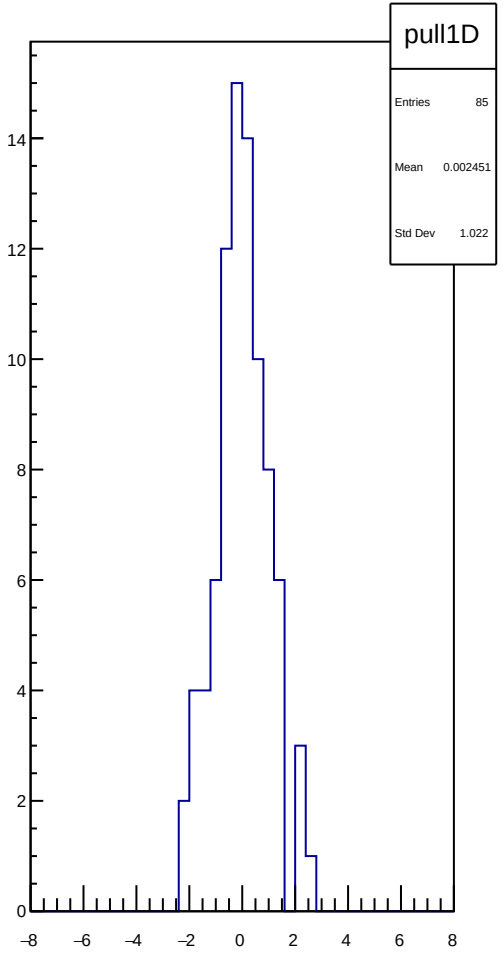

cor_asym_sam8_rms vs run
χ² / ndf 308.4 / 84
p0 54.63 ± 0.04263
57
56
55
54
53
52

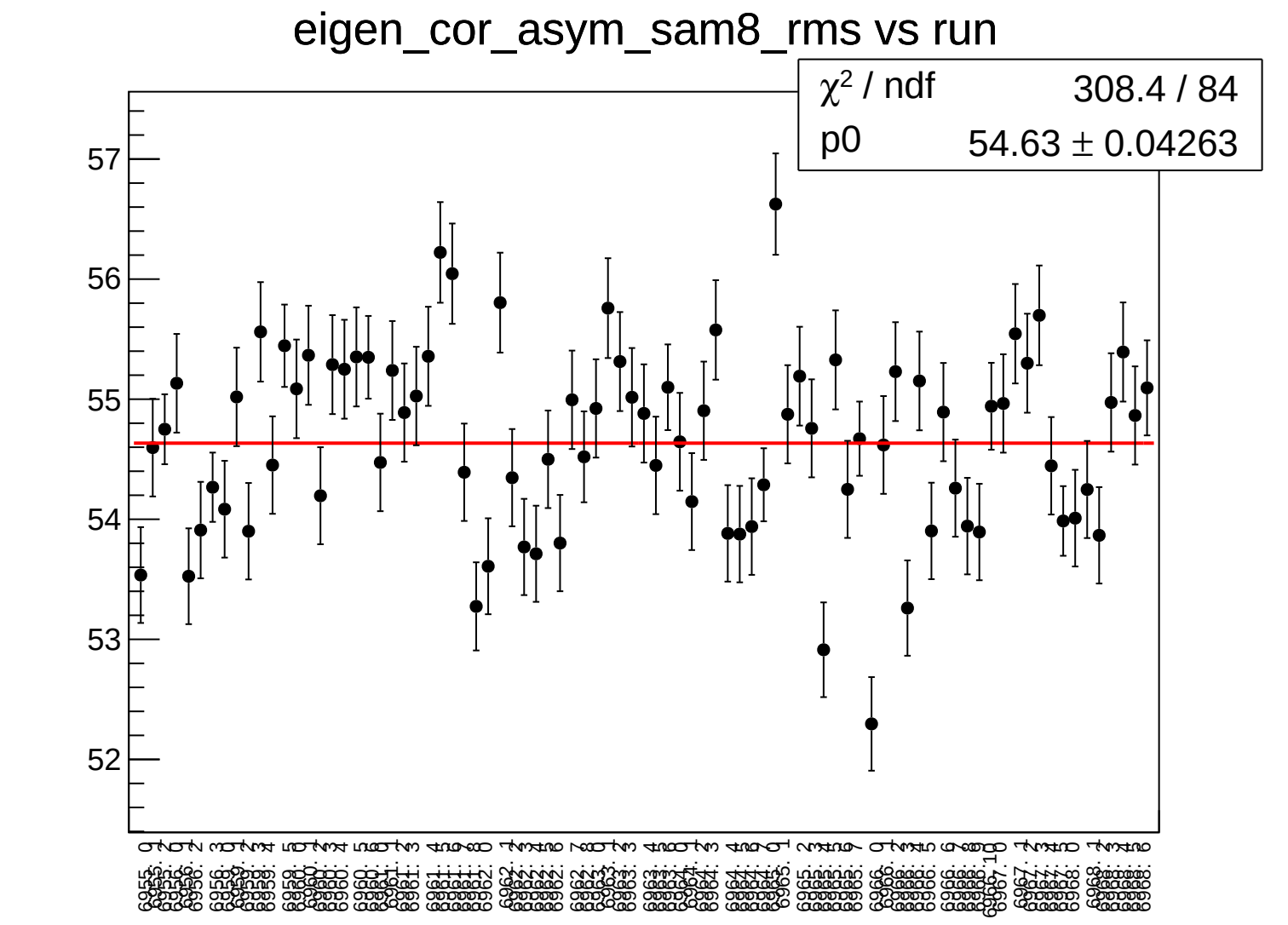

asym_sam8_cor_correction_mean vs run
χ² / ndf 94.91 / 84
p0 −88.52 ± 372.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 22.81
Std Dev 51.23
3
2
1
0
−1
−2
−3

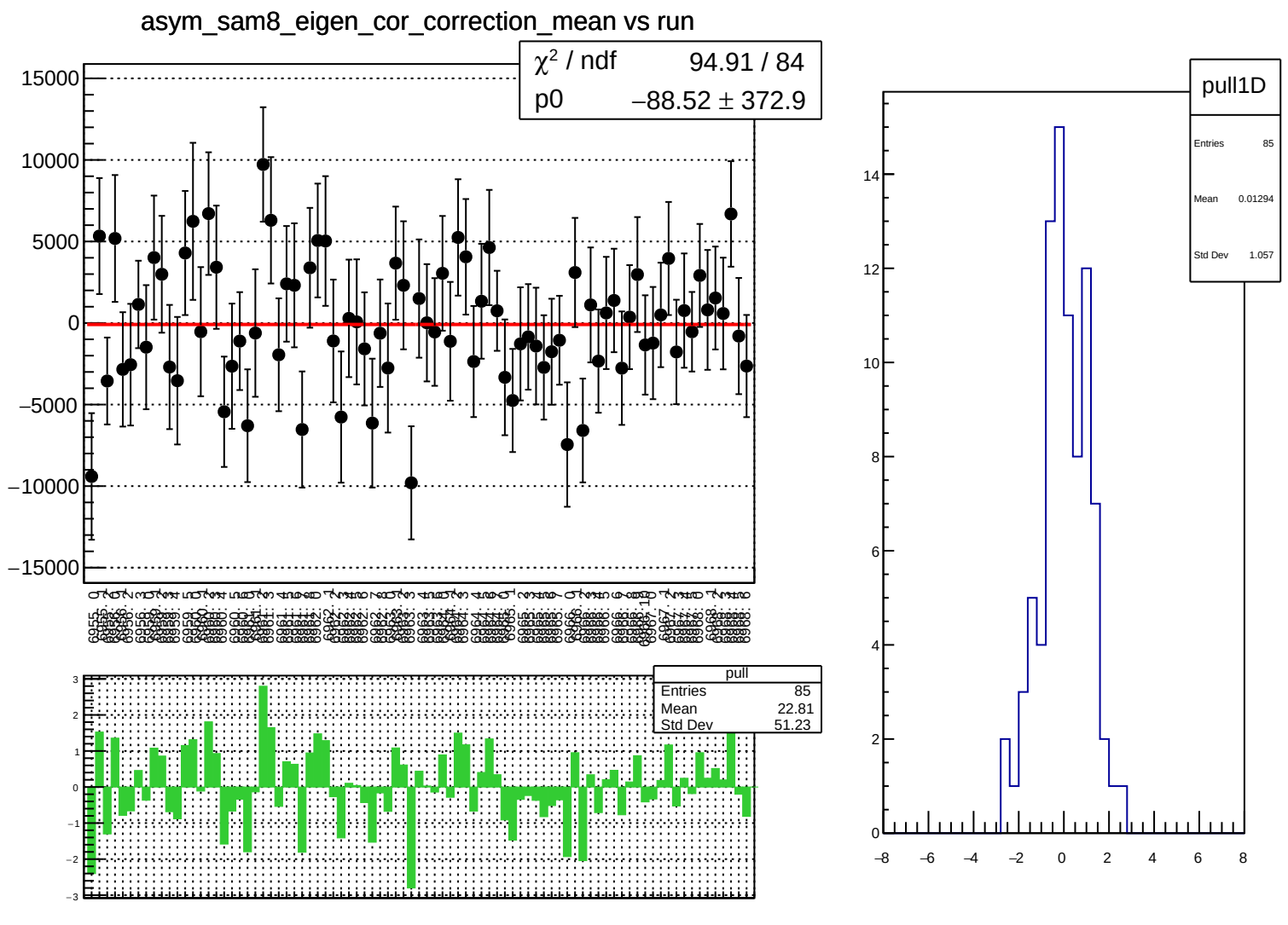

pull1D
Entries 85
Mean 0.01294
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

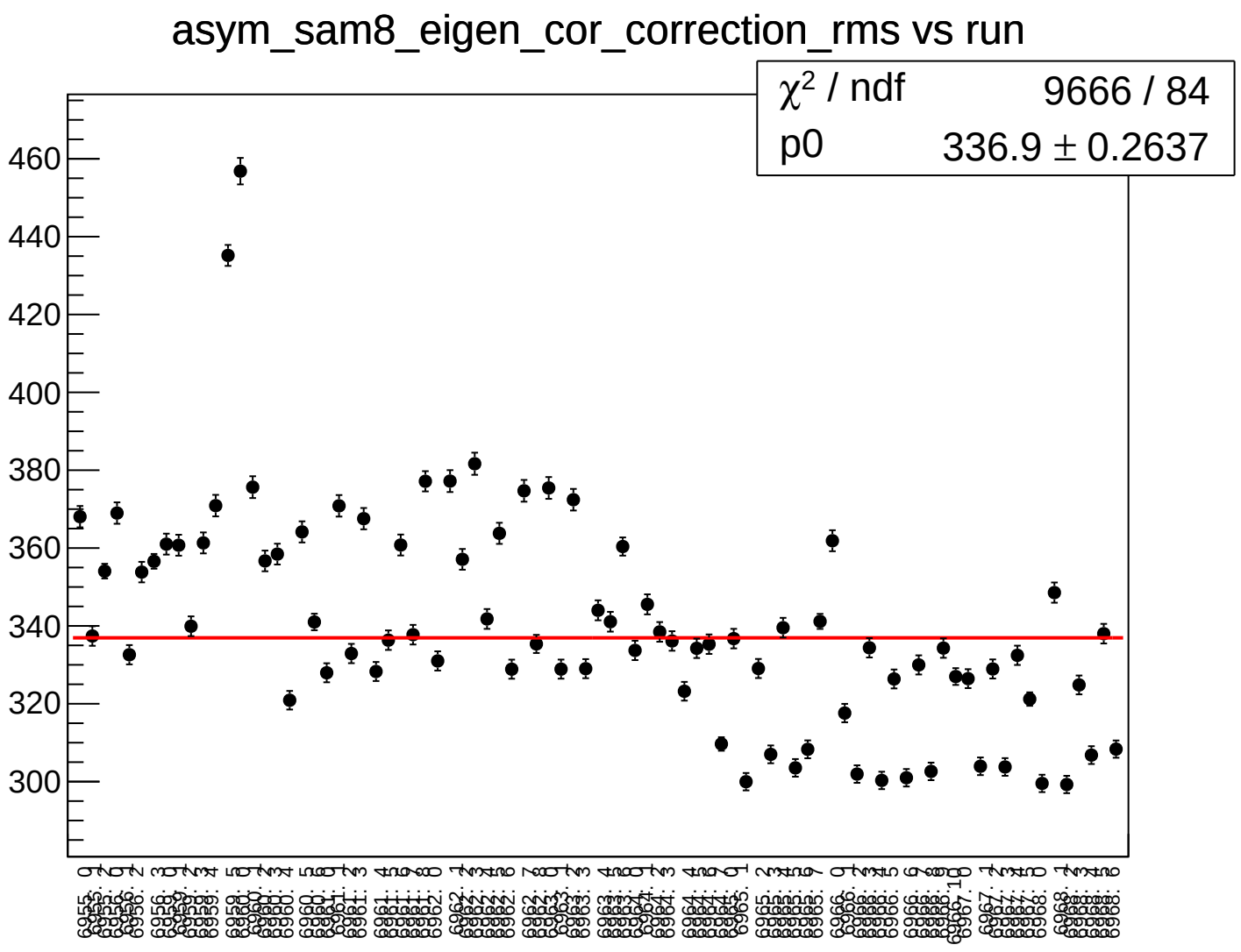

asym_sam8_cor_correction_rms vs run
χ² / ndf 9666 / 84
p0 336.9 ± 0.2637
460
440
420
400
380
360
340
320
300

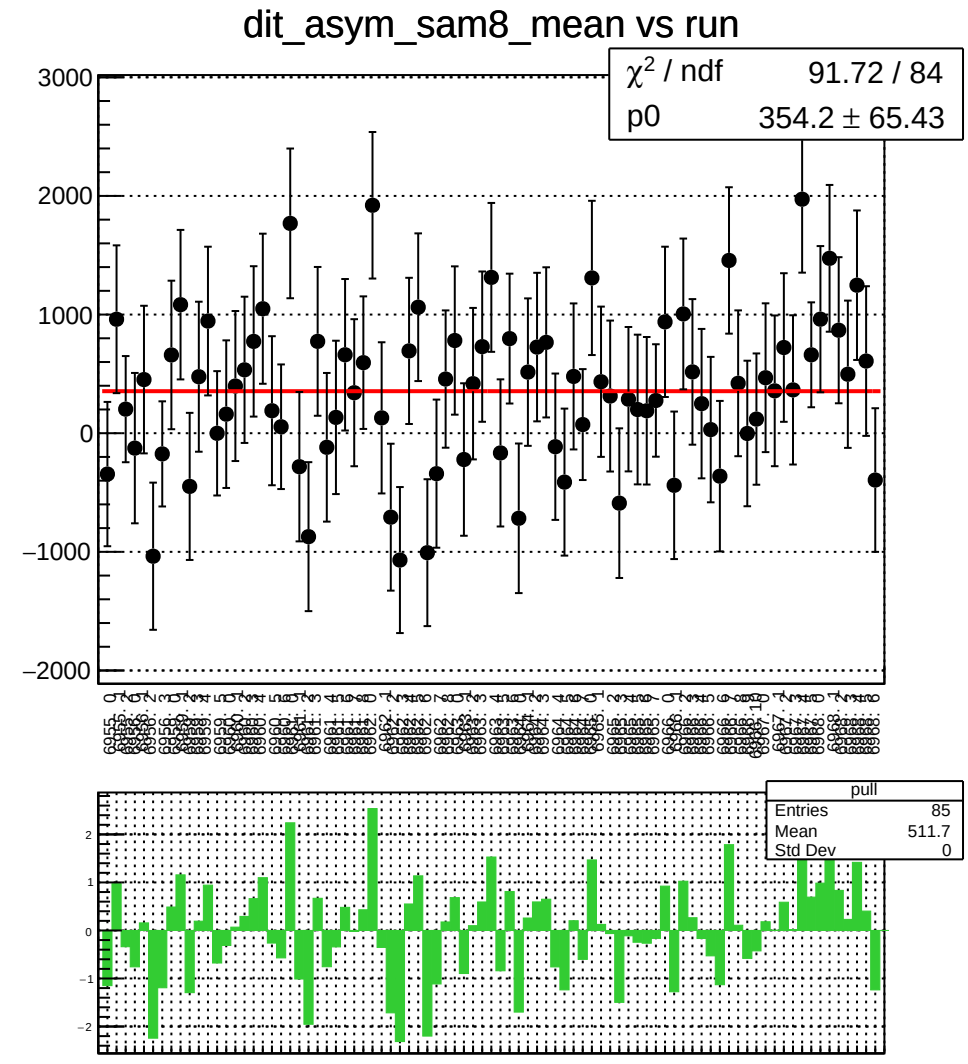

eigen_cor_asym_sam8_mean vs run
χ² / ndf 88.74 / 84
p0 332.3 ± 60.29
pull
Entries 85
Mean 966.8
Std Dev 0

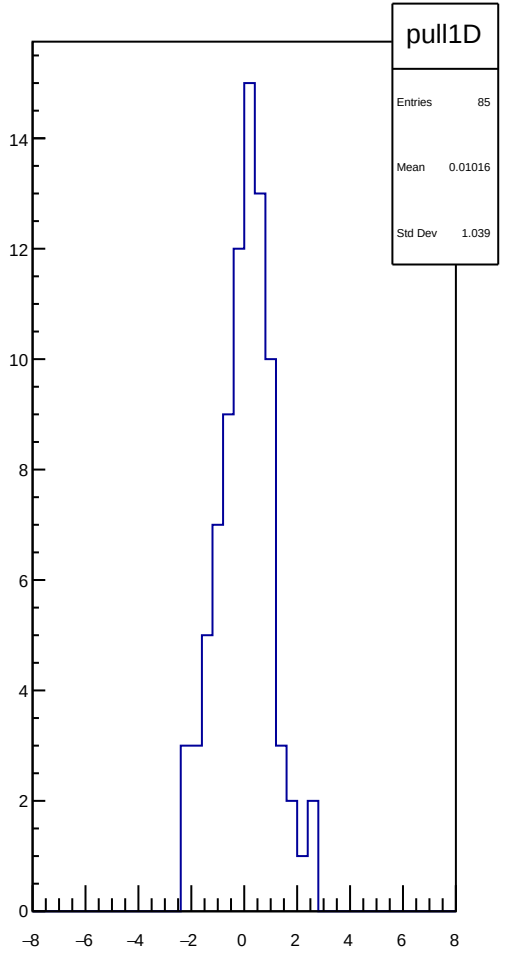

pull1D
Entries 85
Mean 0.002451
Std Dev 1.022

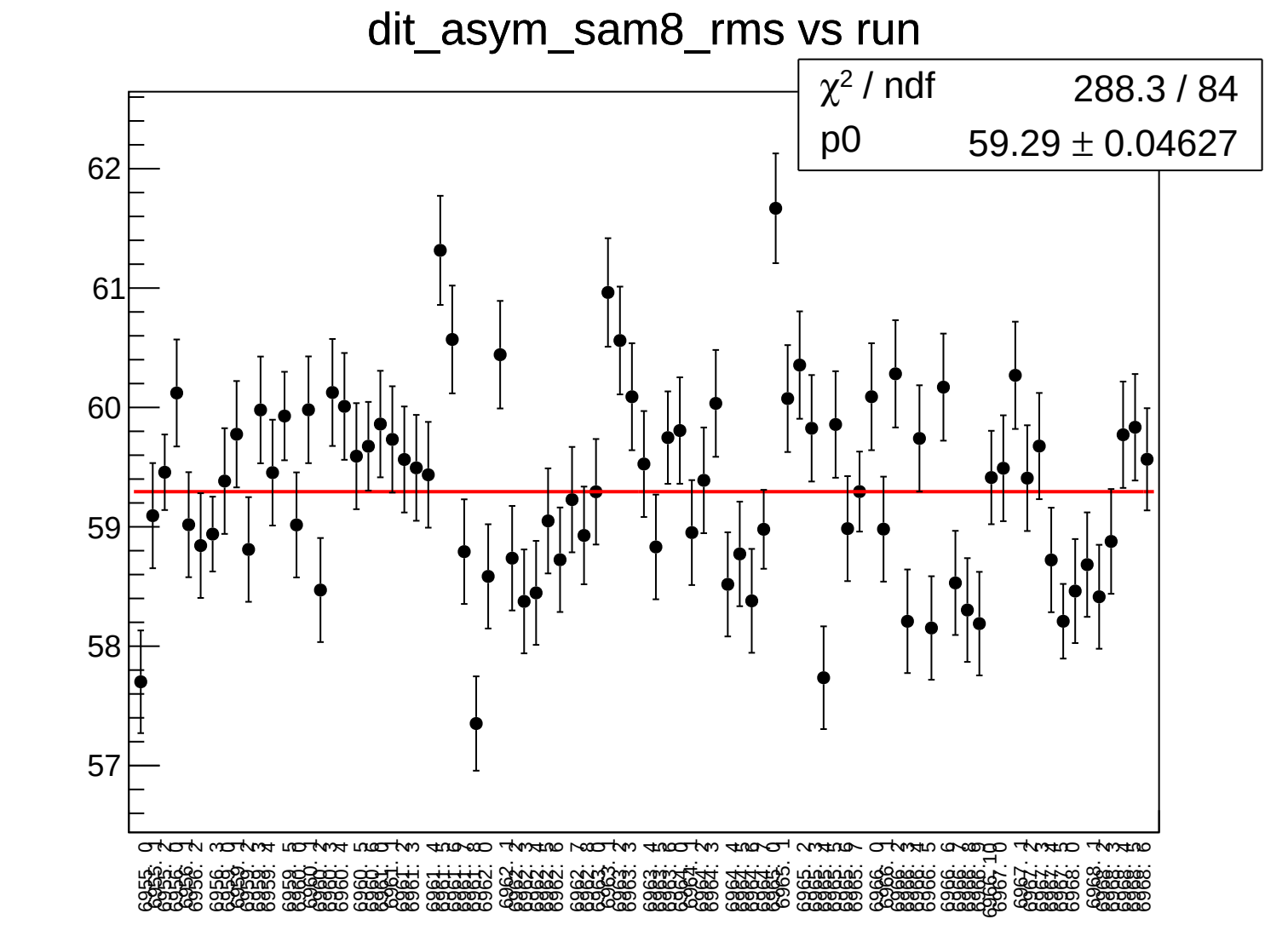

eigen_cor_asym_sam8_rms vs run
χ² / ndf 308.4 / 84
p0 54.63 ± 0.04263
57
56
55
54
53
52

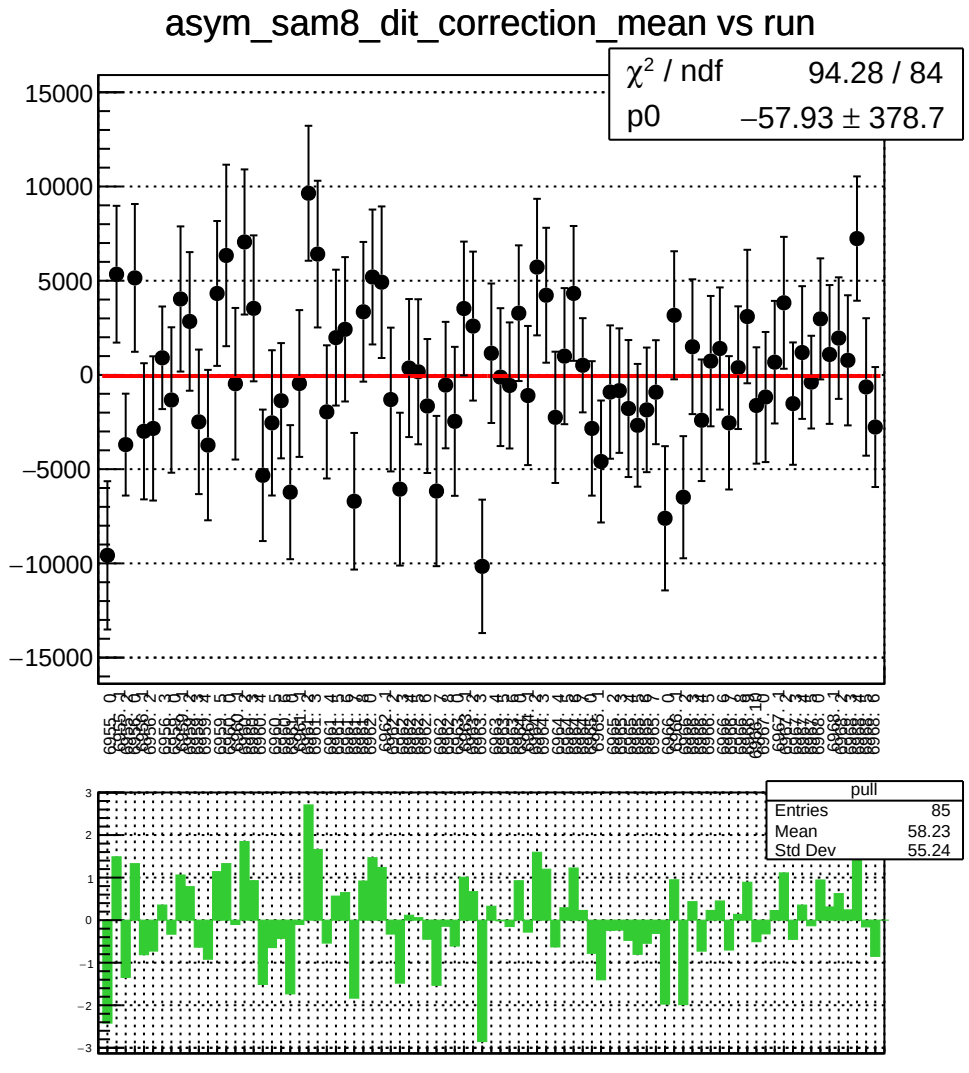

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 94.91 / 84
p0 −88.52 ± 372.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 22.81
Std Dev 51.23
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.01294
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

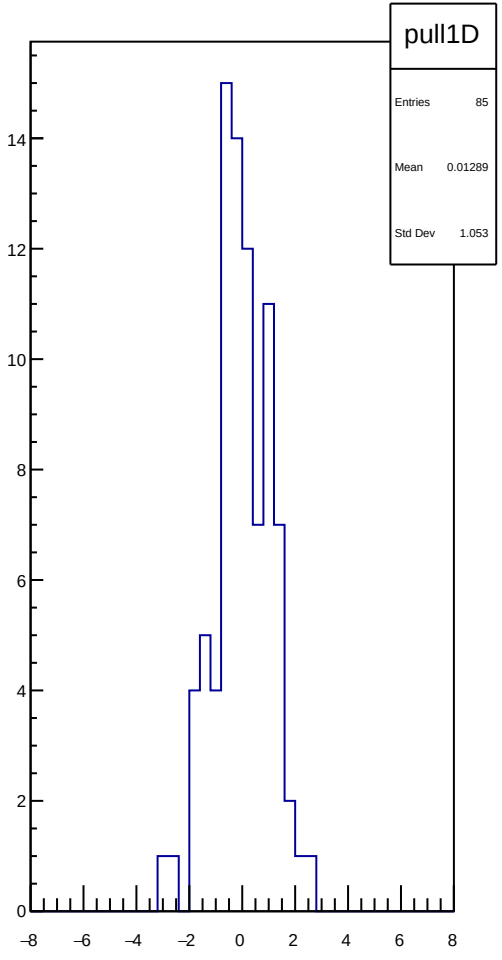

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 9666 / 84
p0 336.9 ± 0.2637
460
440
420
400
380
360
340
320
300

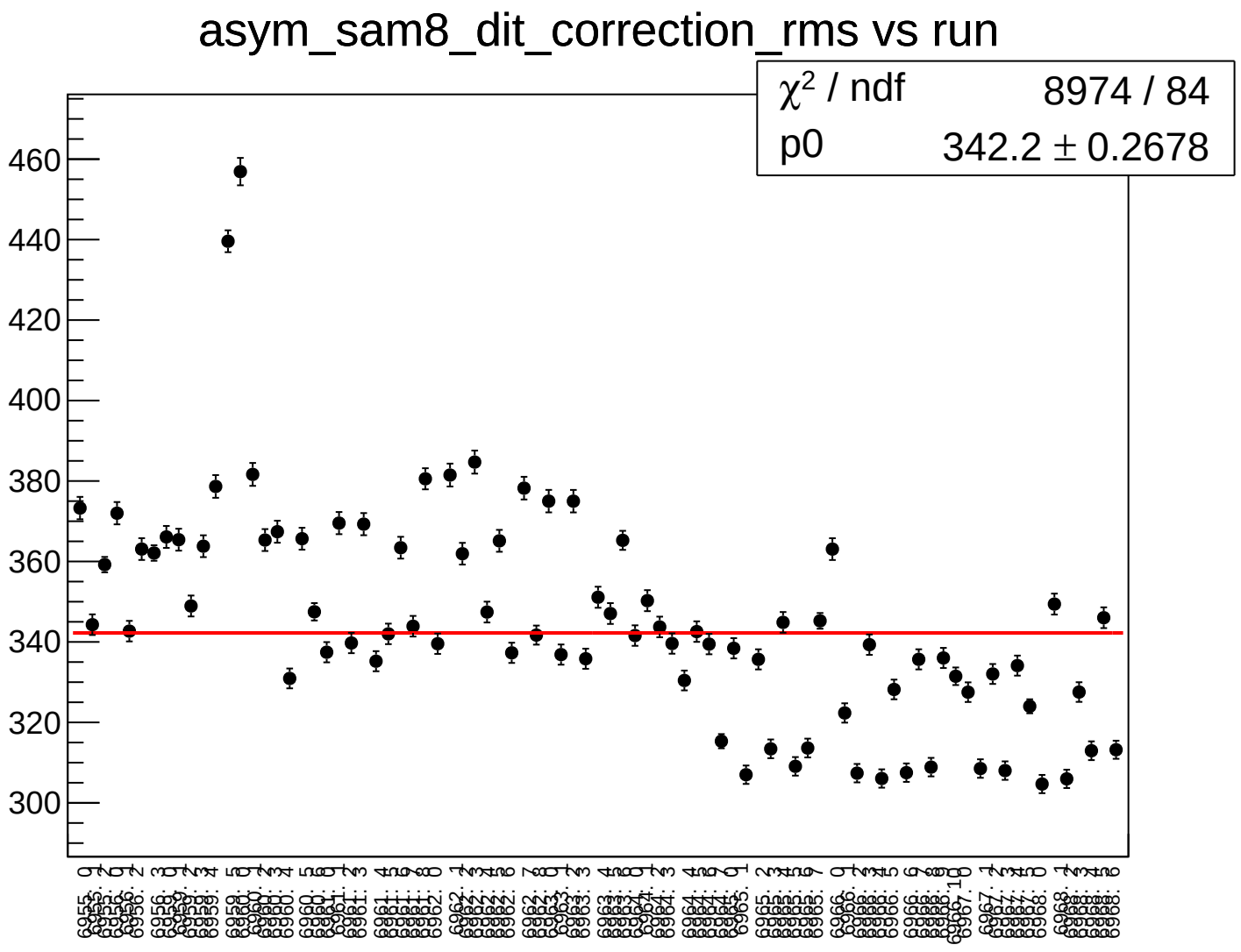

dit_asym_sam8_mean vs run
χ² / ndf 91.72 / 84
p0 354.2 ± 65.43
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 511.7
Std Dev 0
2
1
0
−1
−2

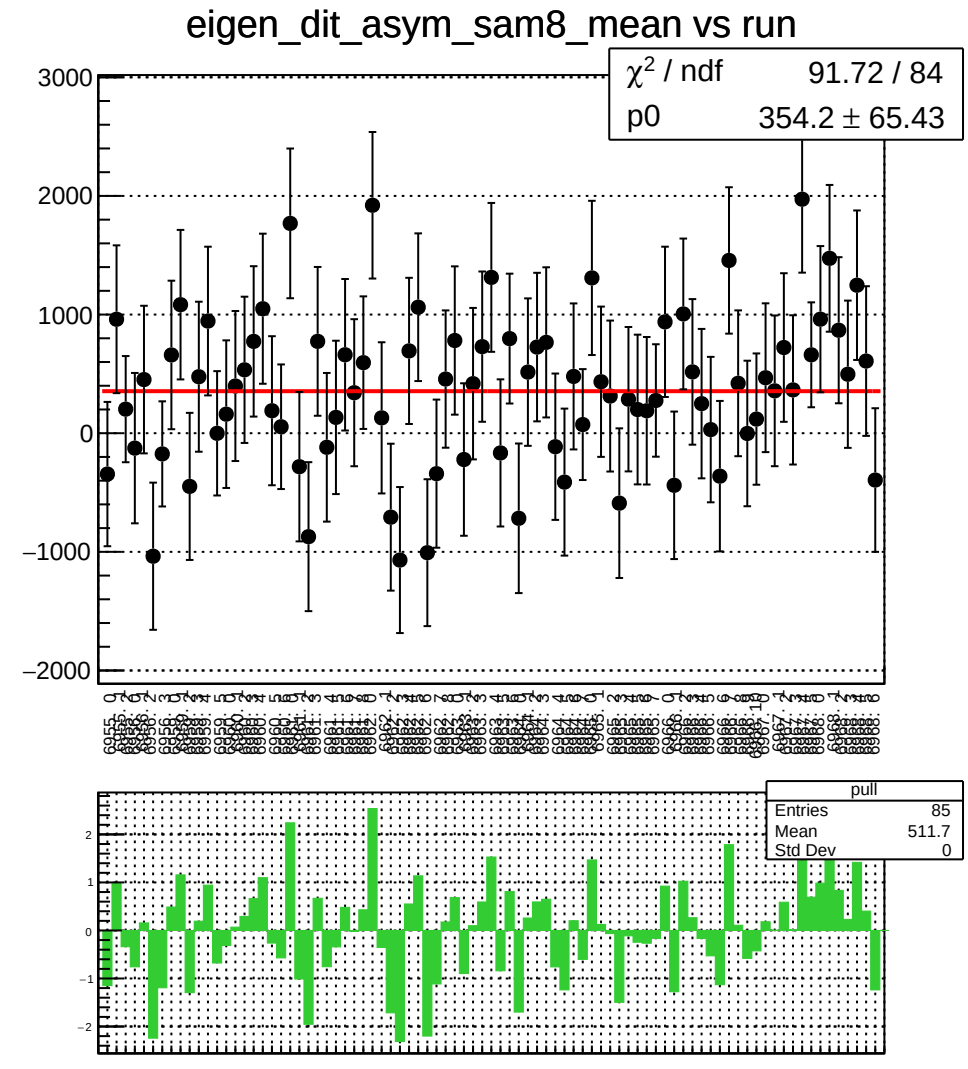

pull1D
Entries 85
Mean 0.01016
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

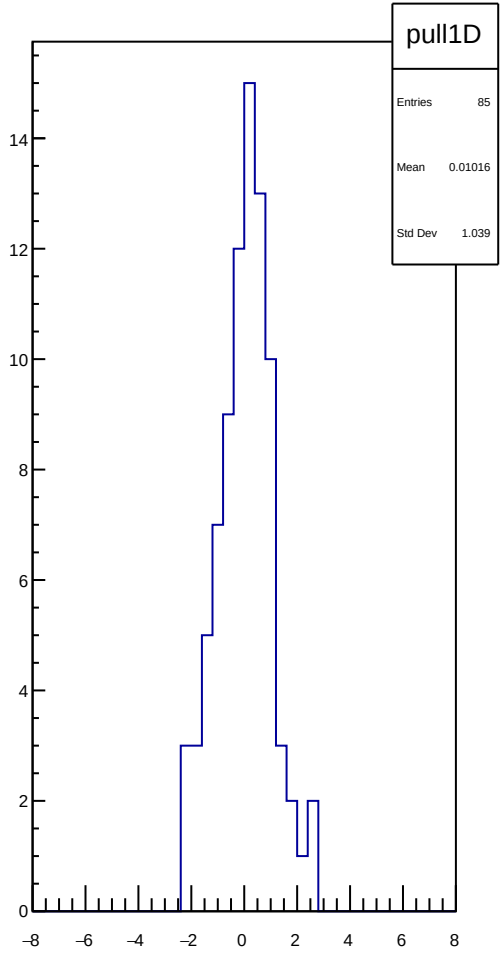

dit_asym_sam8_rms vs run
χ² / ndf 288.3 / 84
p0 59.29 ± 0.04627
62
61
60
59
58
57

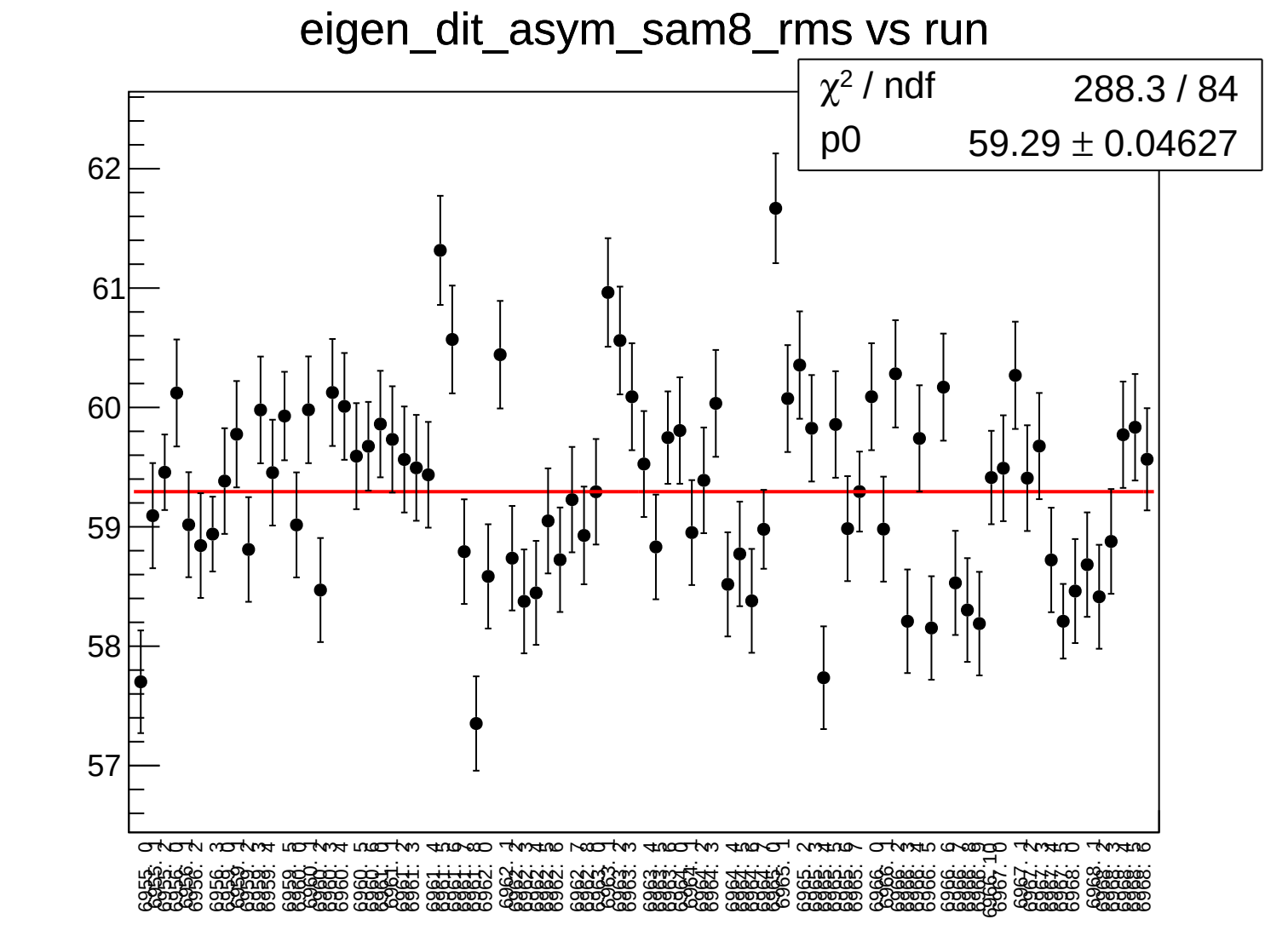

asym_sam8_dit_correction_mean vs run
χ² / ndf 94.28 / 84
p0 −57.93 ± 378.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 58.23
Std Dev 55.24
3
2
1
0
−1
−2
−3

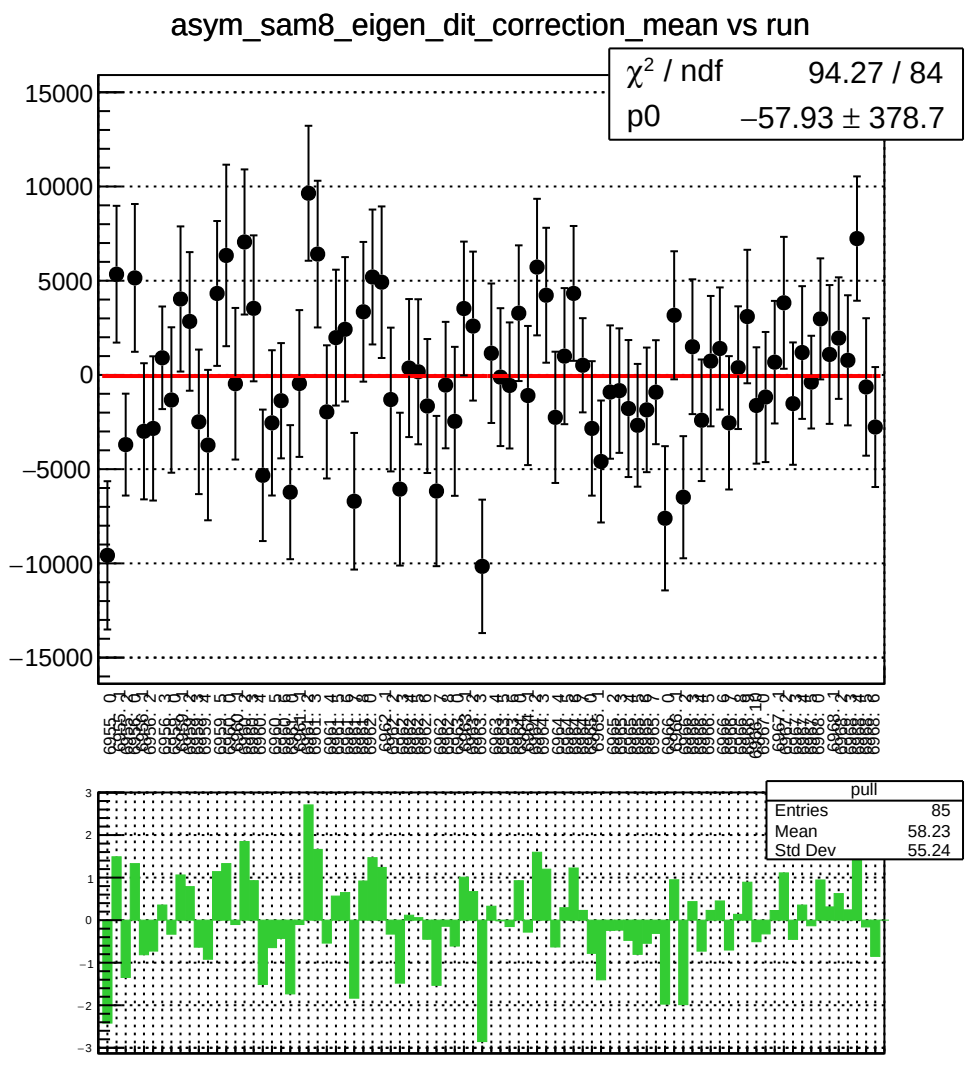

pull1D
Entries 85
Mean 0.01289
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

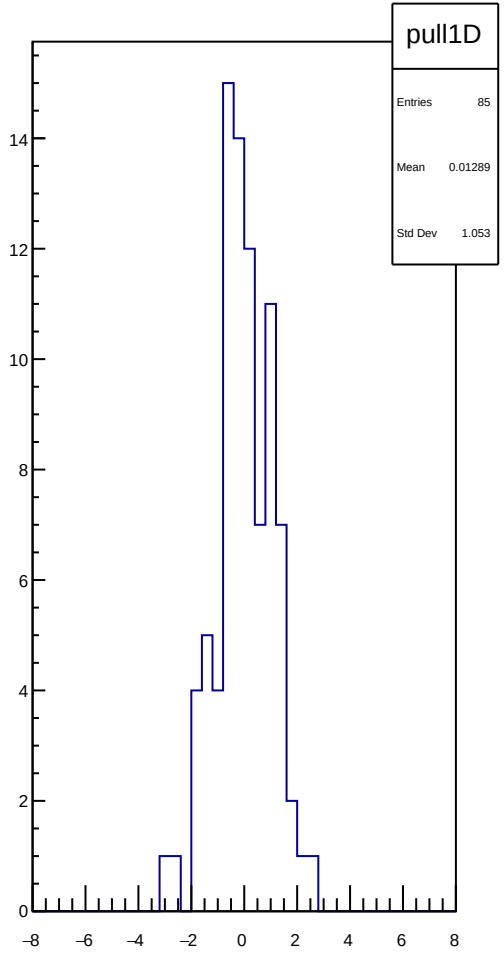

asym_sam8_dit_correction_rms vs run
χ² / ndf 8974 / 84
p0 342.2 ± 0.2678
460
440
420
400
380
360
340
320
300

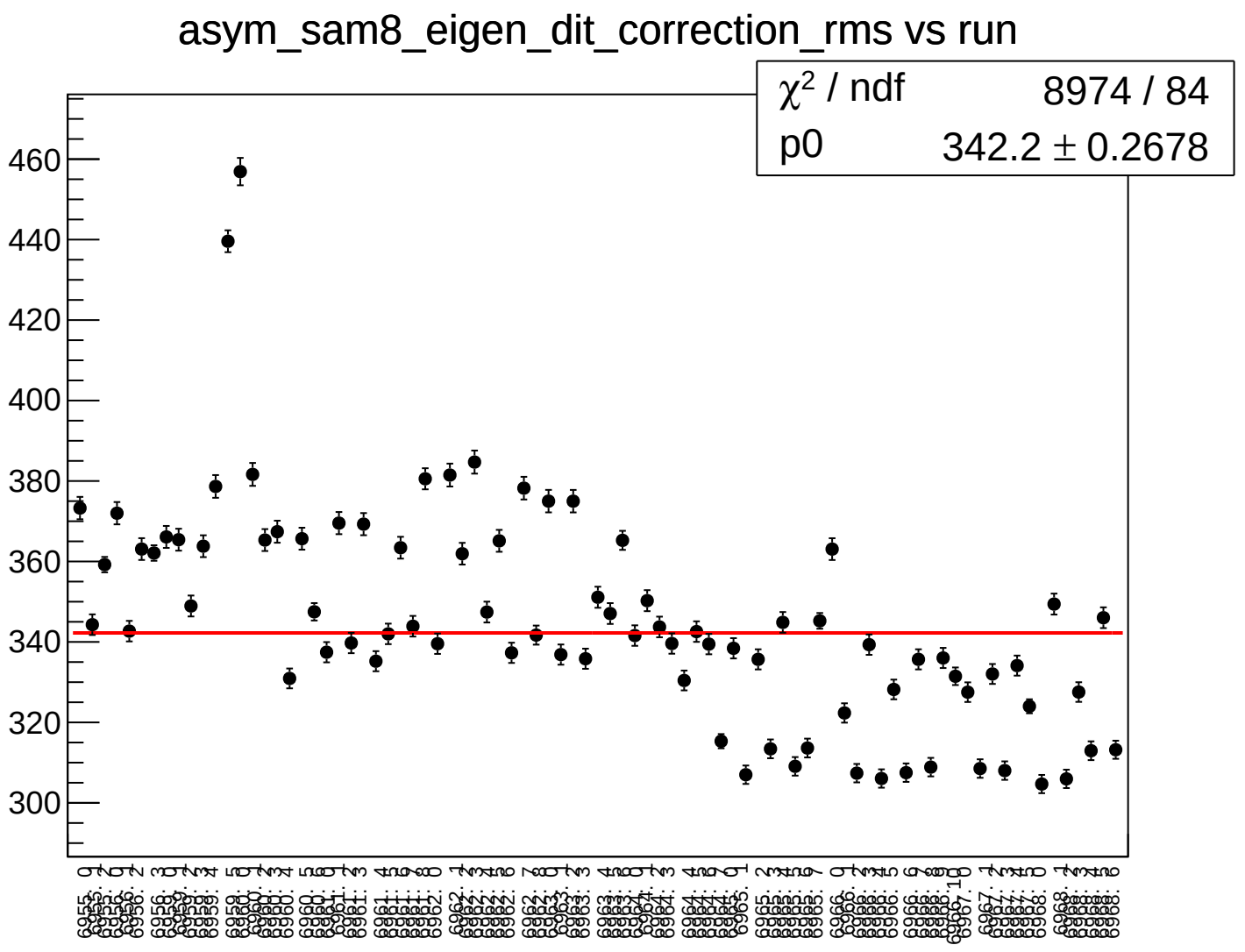

eigen_dit_asym_sam8_mean vs run
χ² / ndf 91.72 / 84
p0 354.2 ± 65.43
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 511.7
Std Dev 0
2
1
0
−1
−2

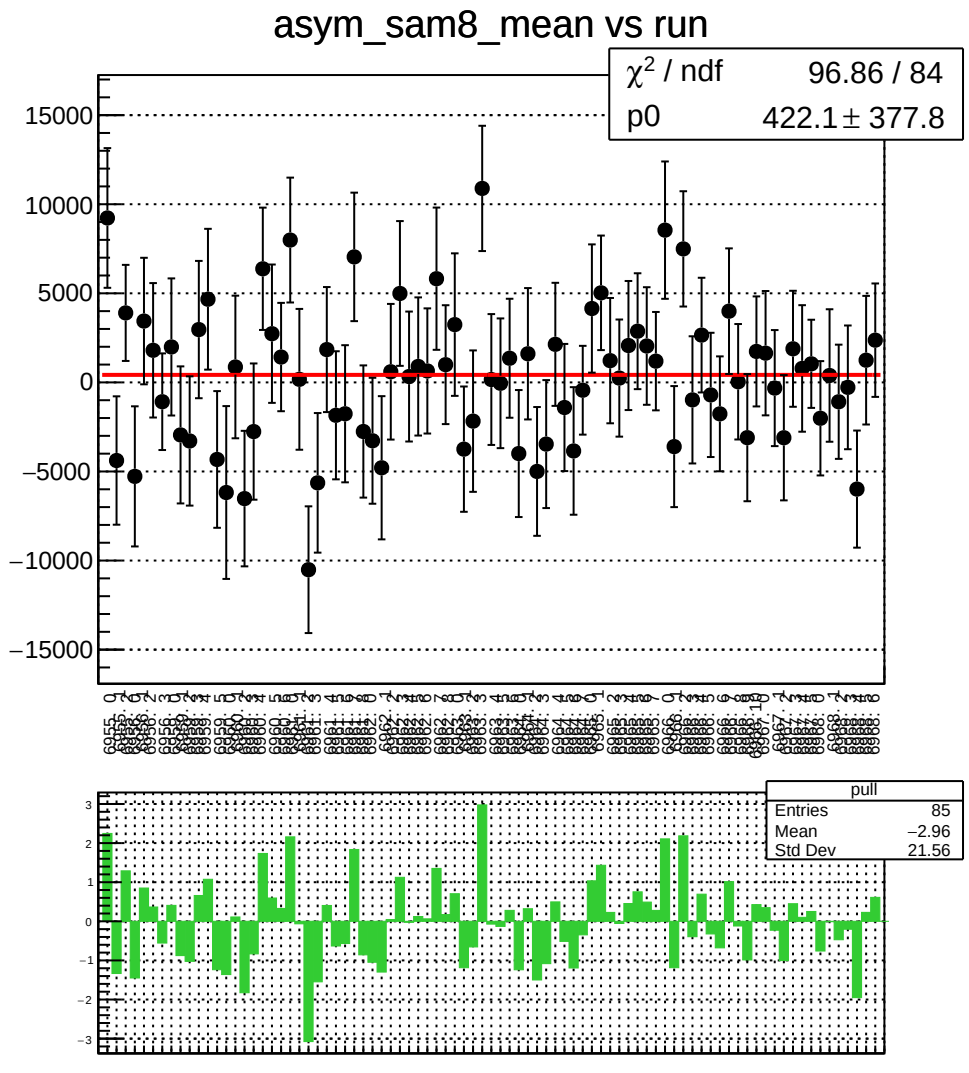

pull1D
Entries 85
Mean 0.01016
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

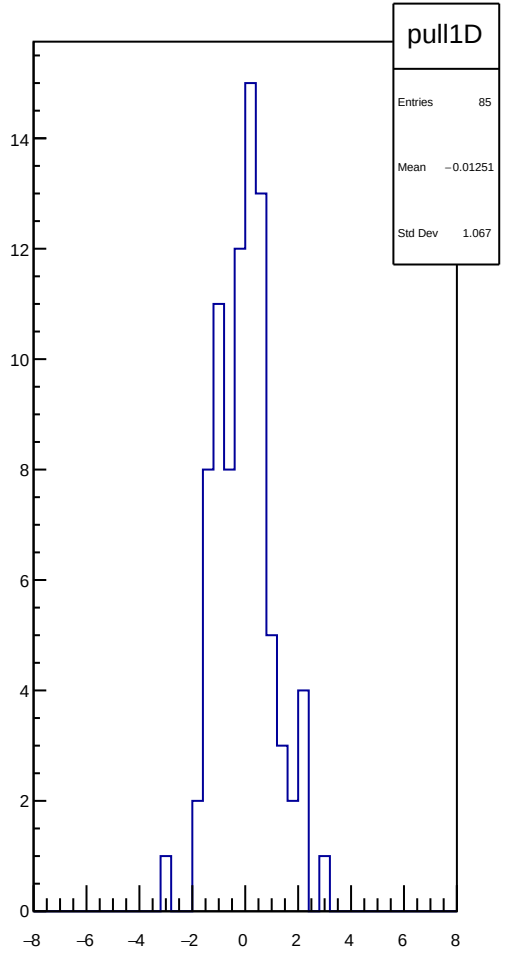

eigen_dit_asym_sam8_rms vs run
χ² / ndf 288.3 / 84
p0 59.29 ± 0.04627
62
61
60
59
58
57

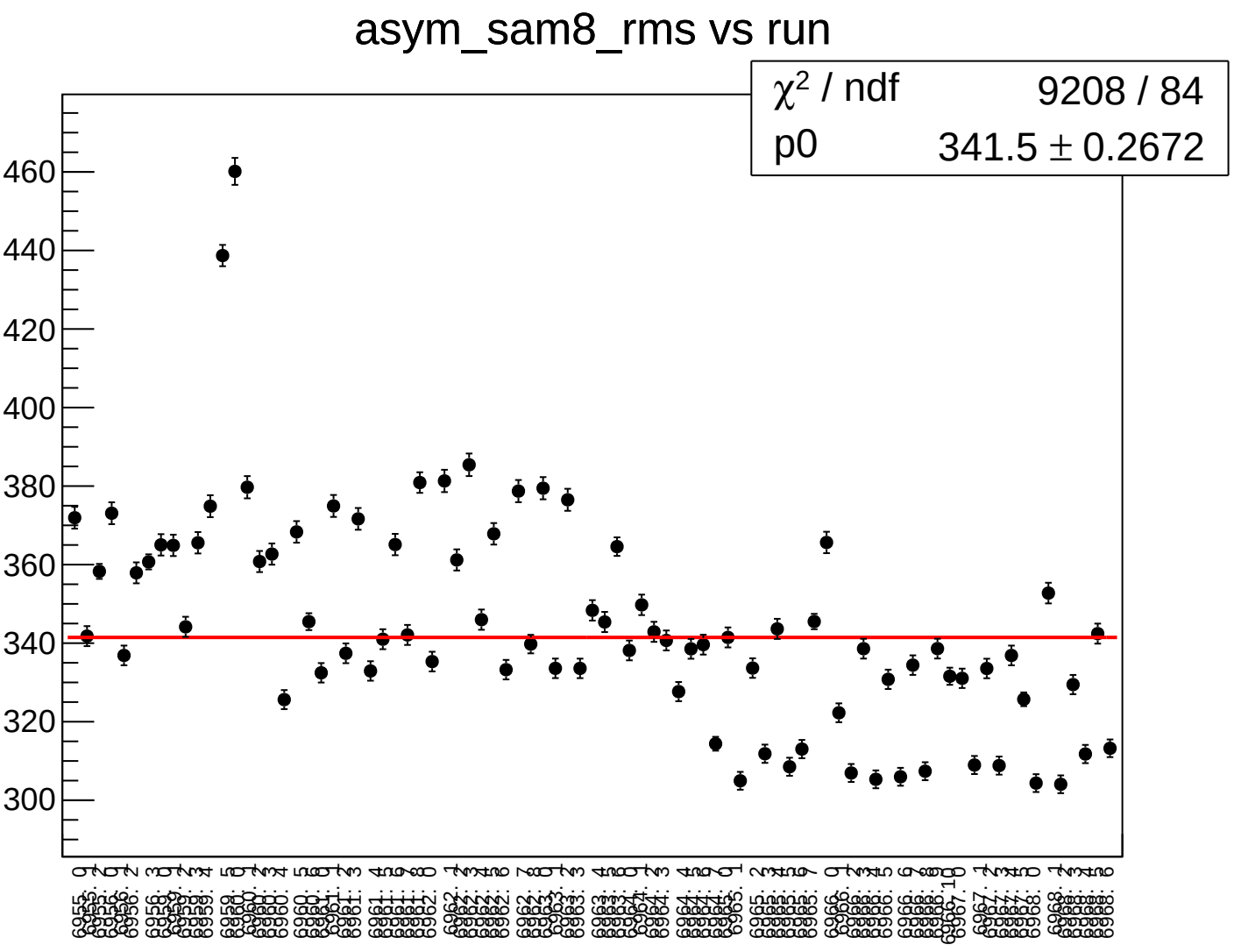

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 94.27 / 84
p0 −57.93 ± 378.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 58.23
Std Dev 55.24
3
2
1
0
−1
−2
−3

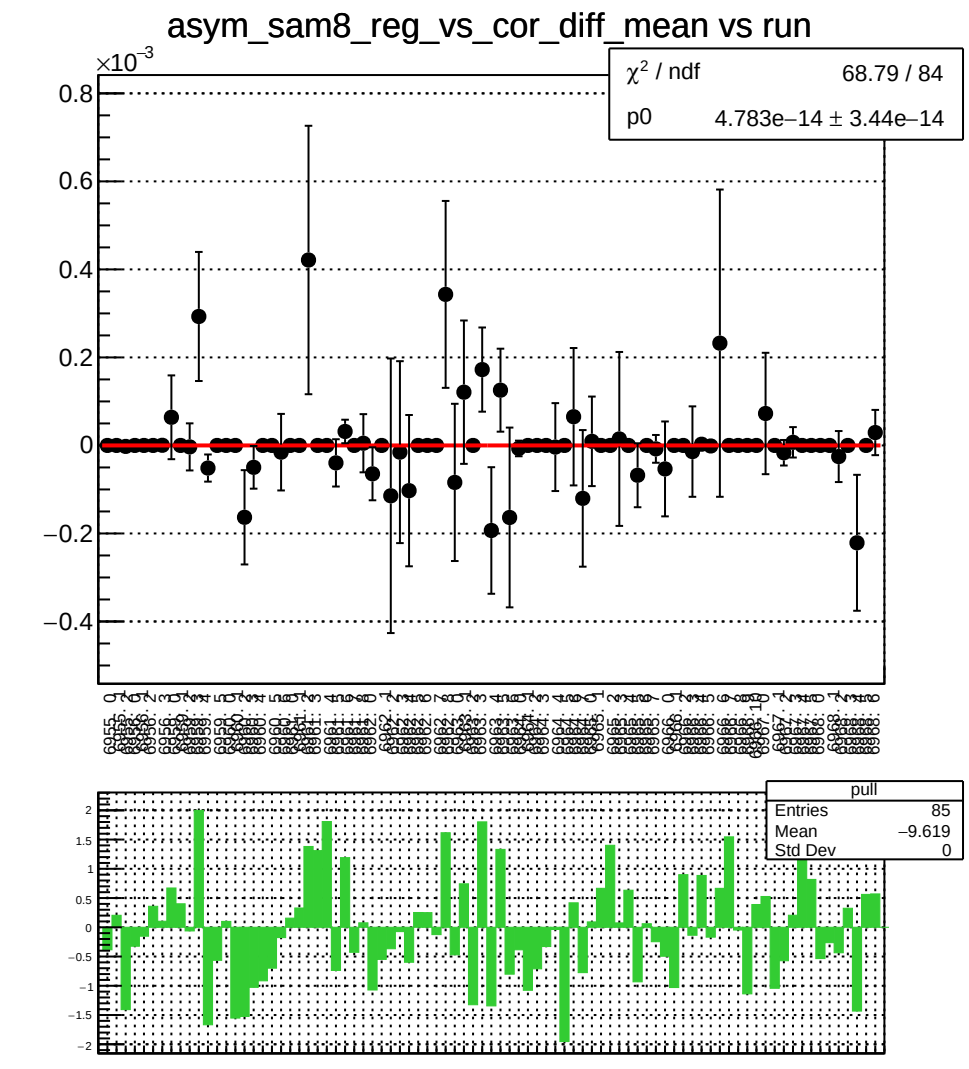

pull1D
Entries 85
Mean 0.01289
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

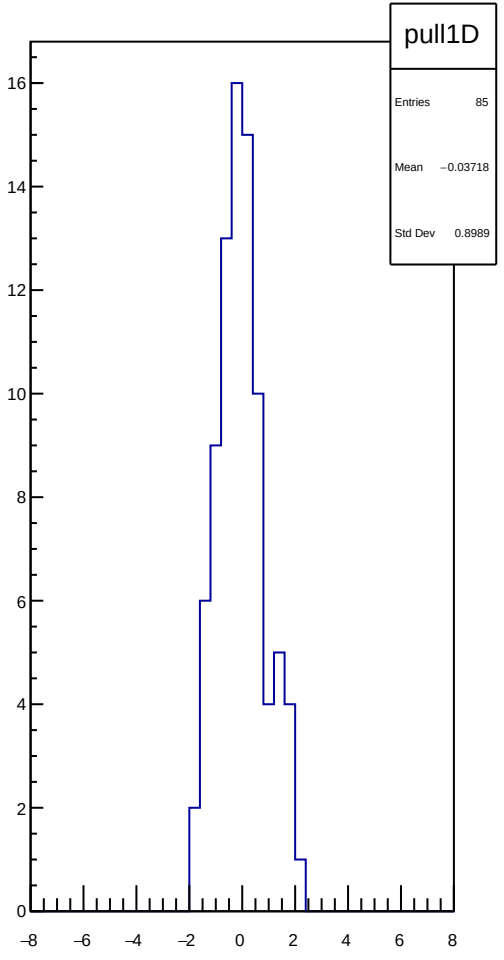

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 8974 / 84
p0 342.2 ± 0.2678
460
440
420
400
380
360
340
320
300

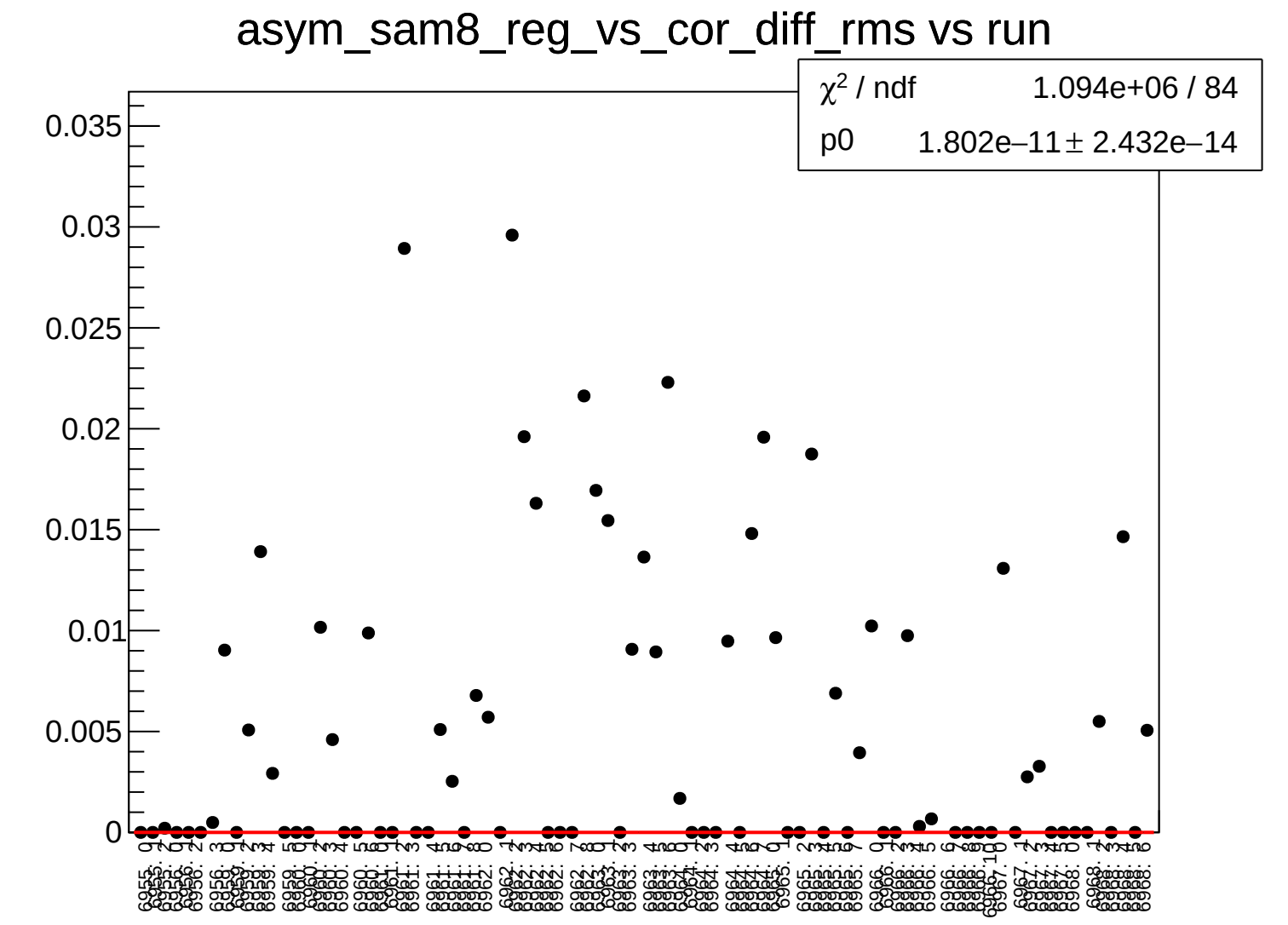

asym_sam8_mean vs run
χ² / ndf 96.86 / 84
p0 422.1 ± 377.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −2.96
Std Dev 21.56
3
2
1
0
−1
−2
−3

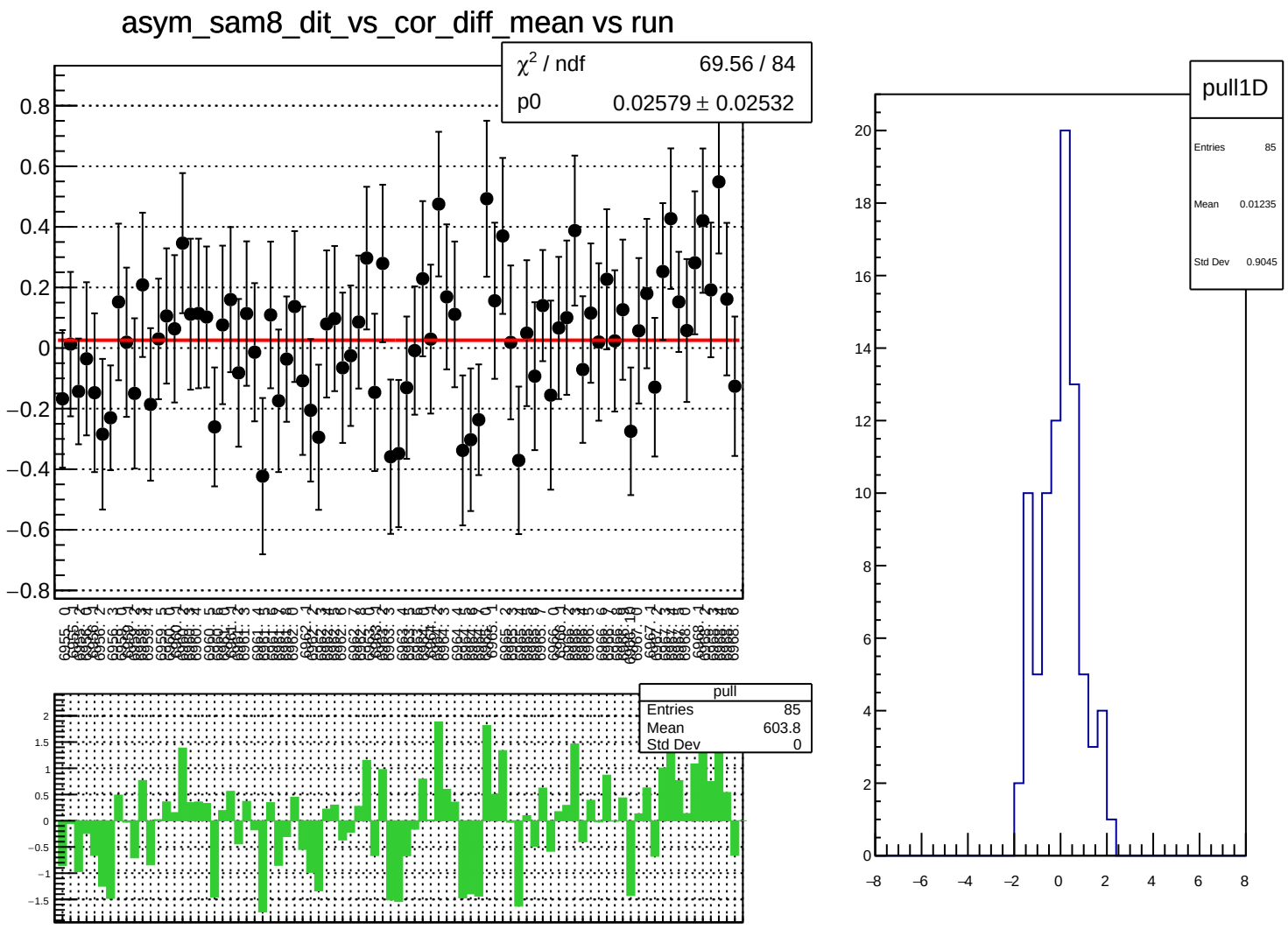

pull1D
Entries 85
Mean −0.01251
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

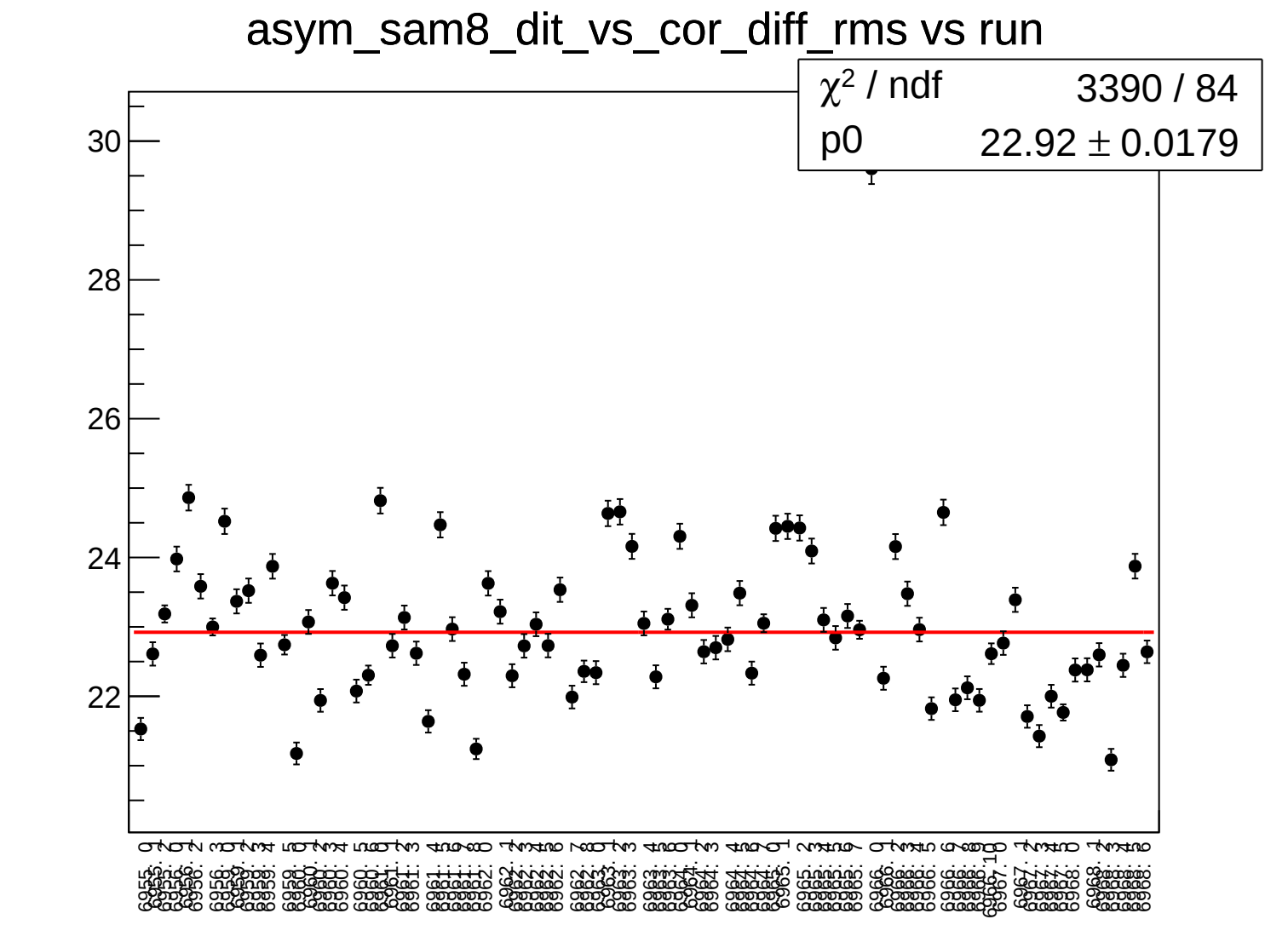

asym_sam8_rms vs run
$\chi^2$ / ndf 9208 / 84
p0 341.5 ± 0.2672
460
440
420
400
380
360
340
320
300

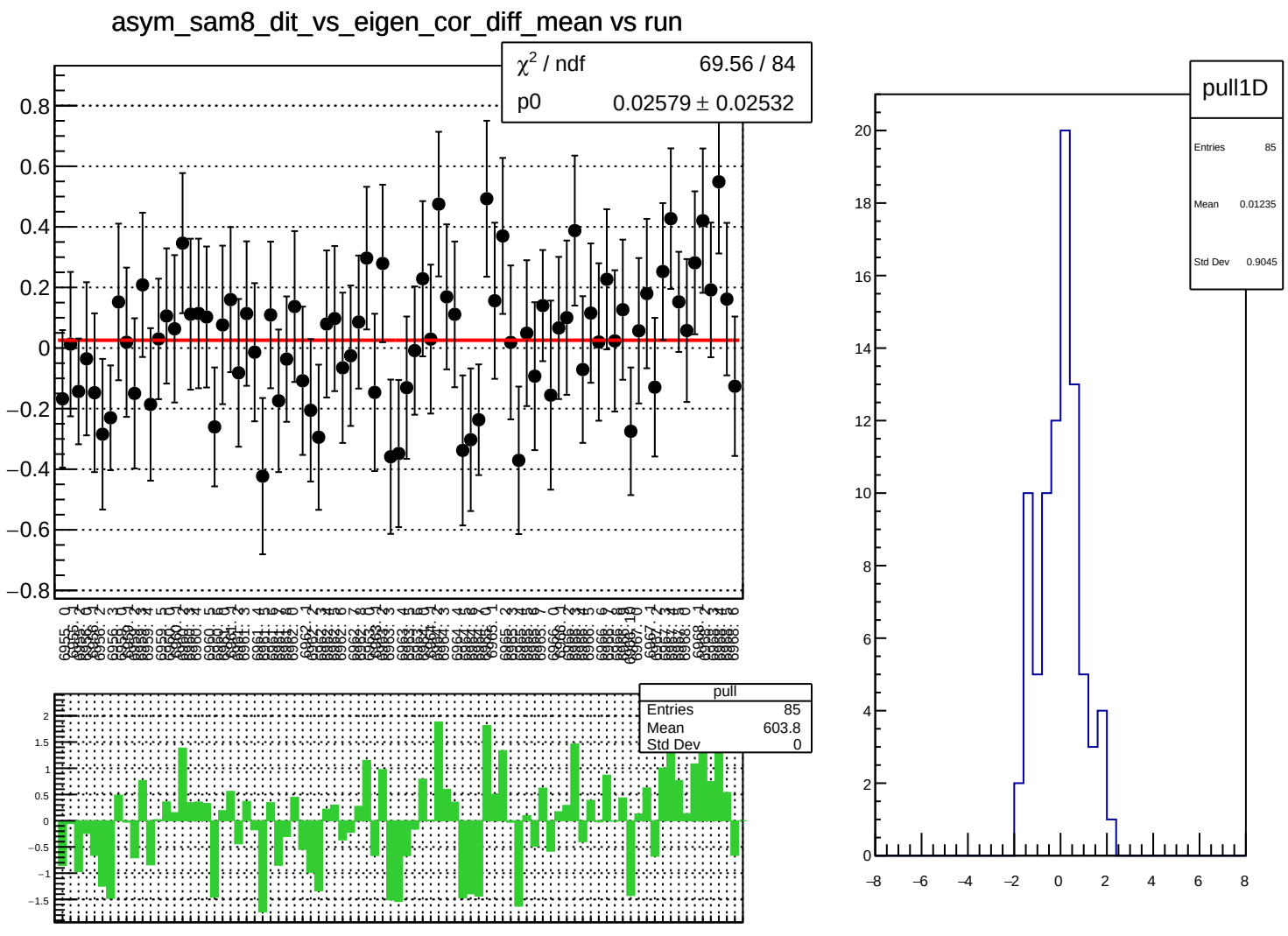

asym_sam8_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 68.79 / 84
p0 4.783e−14 ± 3.44e−14
pull
Entries 85
Mean −9.619
Std Dev 0

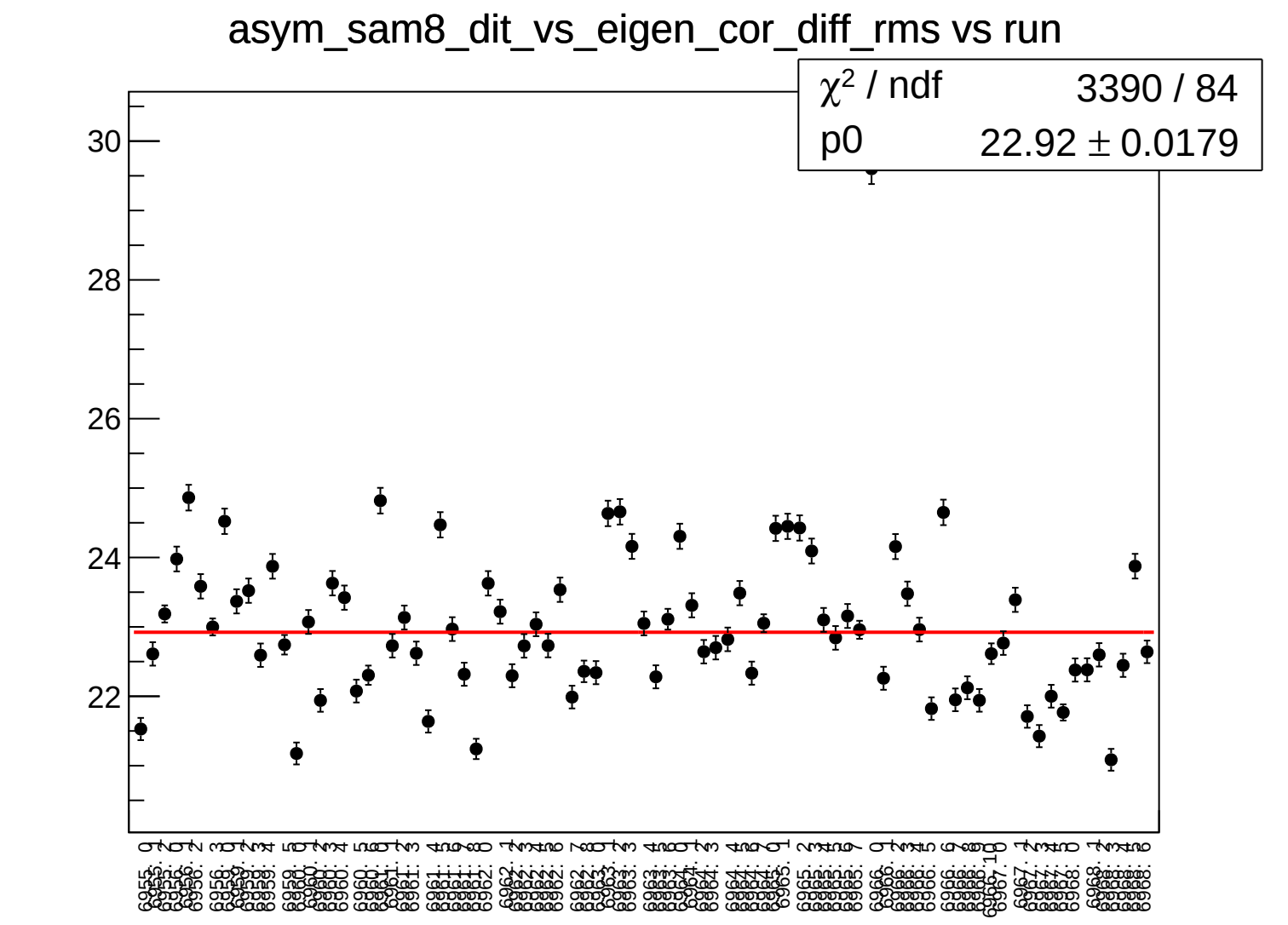

pull1D
Entries 85
Mean −0.03718
Std Dev 0.8989

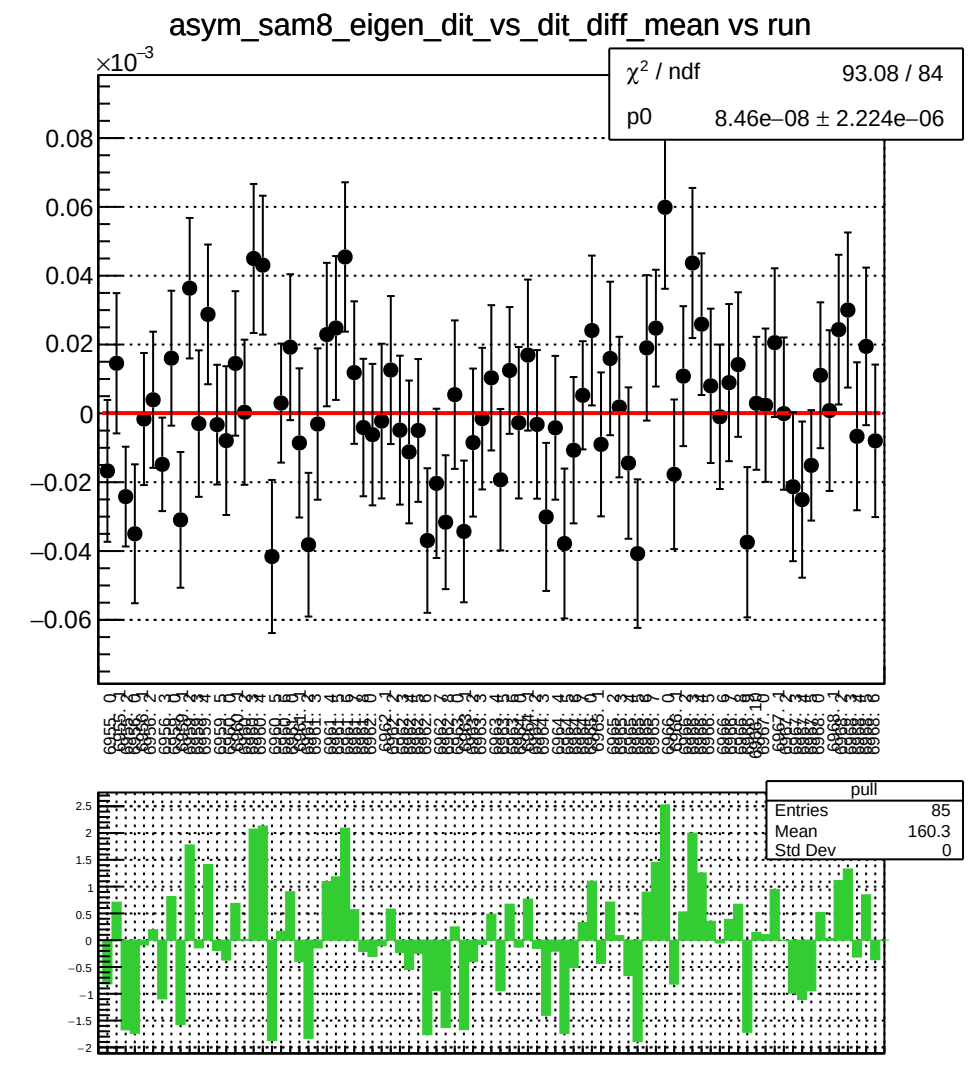

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.094e+06 / 84
p0 1.802e−11 ± 2.432e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

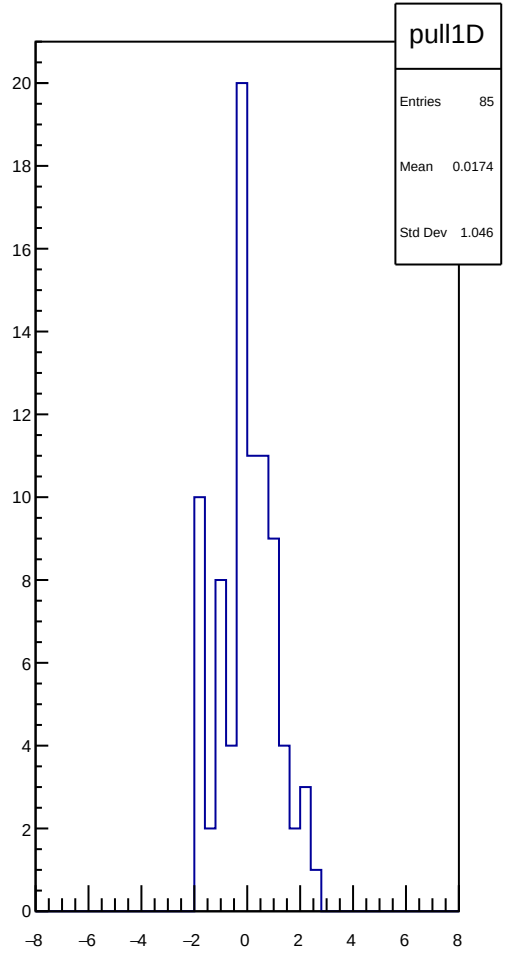

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 69.56 / 84
p0 0.02579 ± 0.02532
pull
Entries 85
Mean 603.8
Std Dev 0
pull1D
Entries 85
Mean 0.01235
Std Dev 0.9045

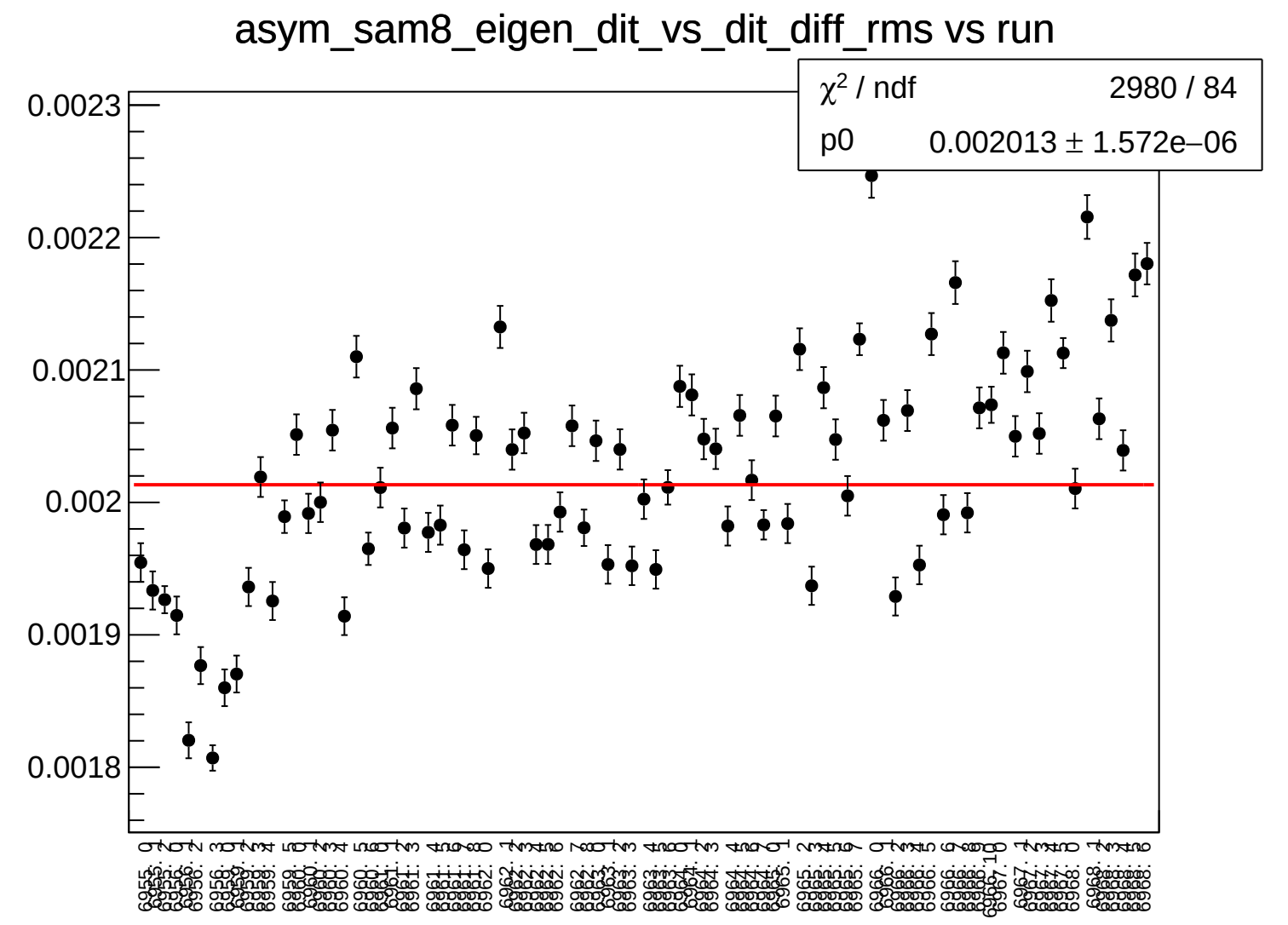

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 3390 / 84
p0 22.92 ± 0.0179
30
28
26
24
22

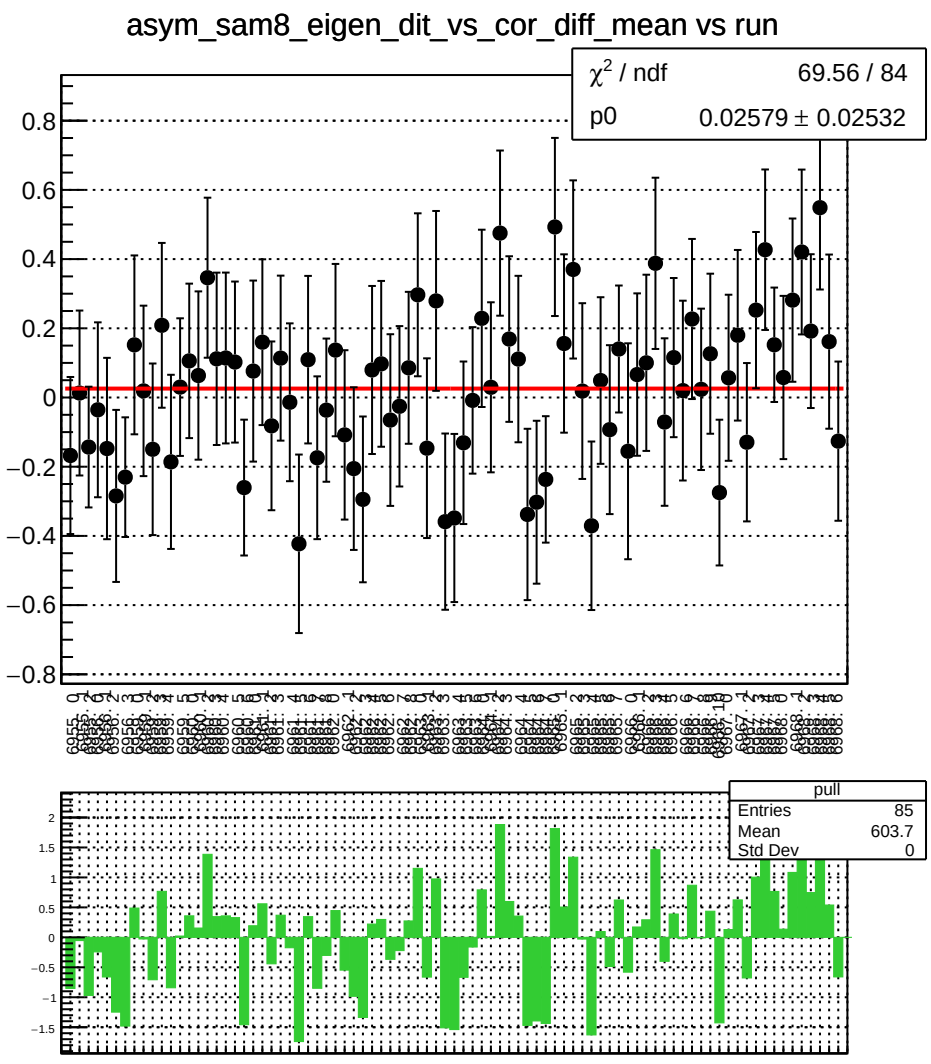

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.56 / 84
p0 0.02579 ± 0.02532
pull
Entries 85
Mean 603.8
Std Dev 0
pull1D
Entries 85
Mean 0.01235
Std Dev 0.9045

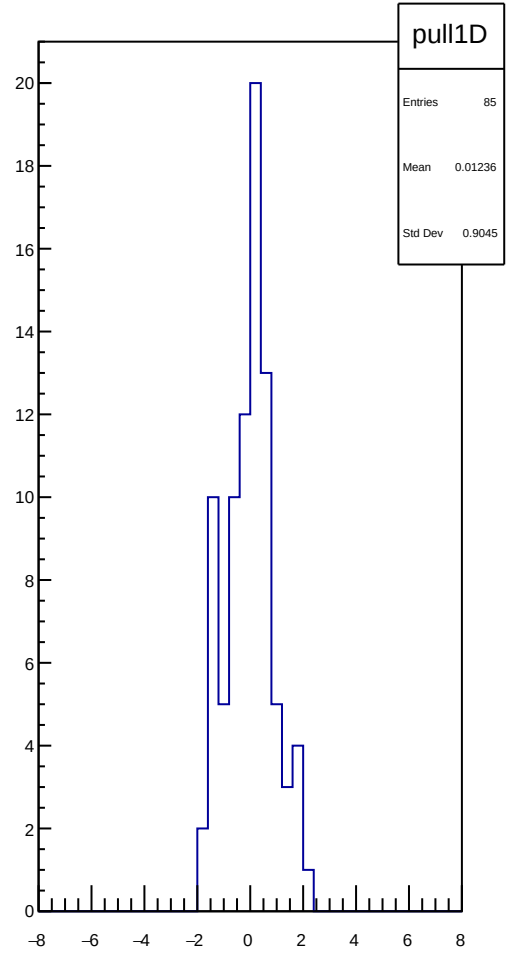

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3390 / 84
p0 22.92 ± 0.0179
30
28
26
24
22

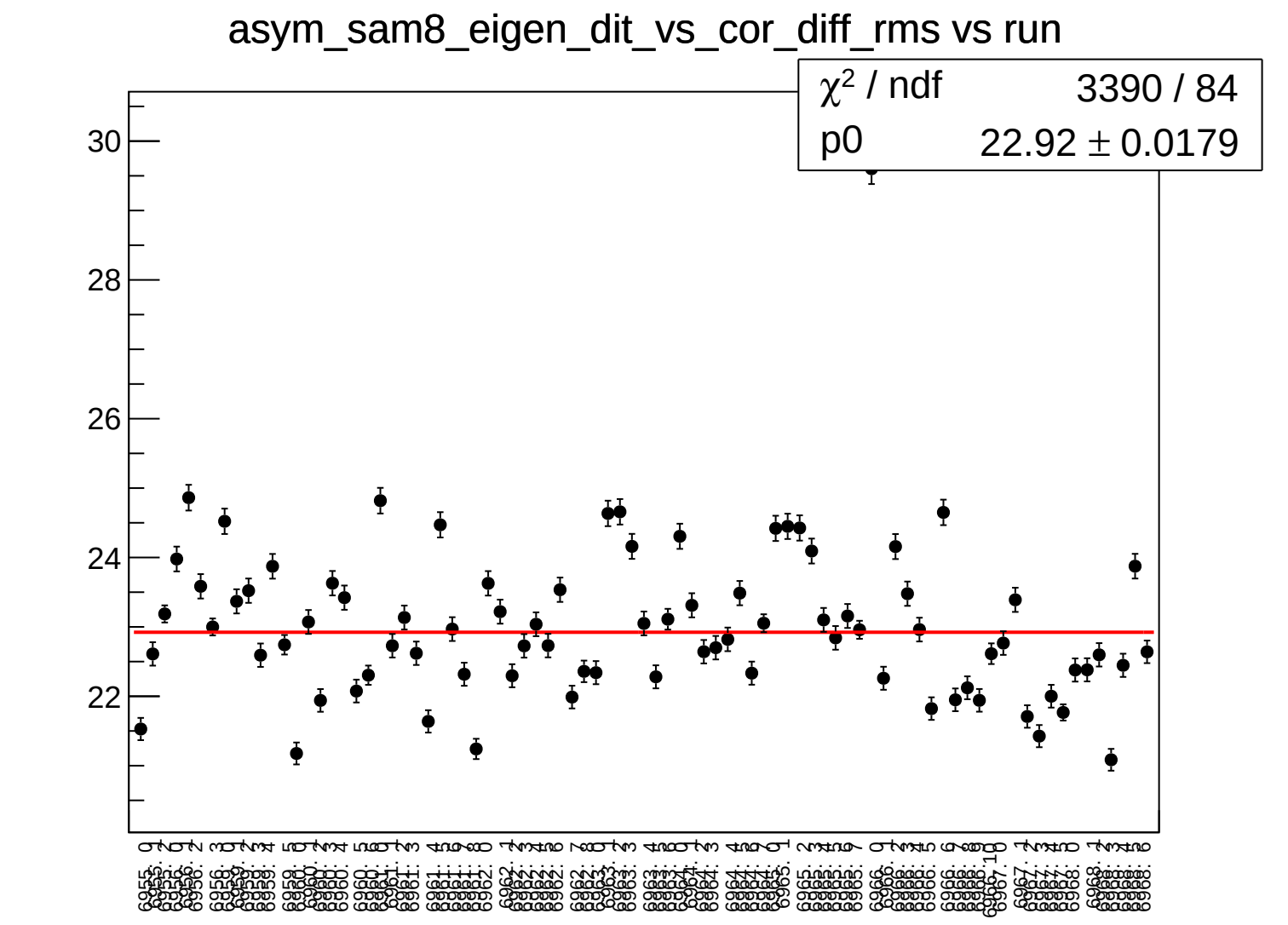

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.08 / 84
p0 8.46e−08 ± 2.224e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 85
Mean 160.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

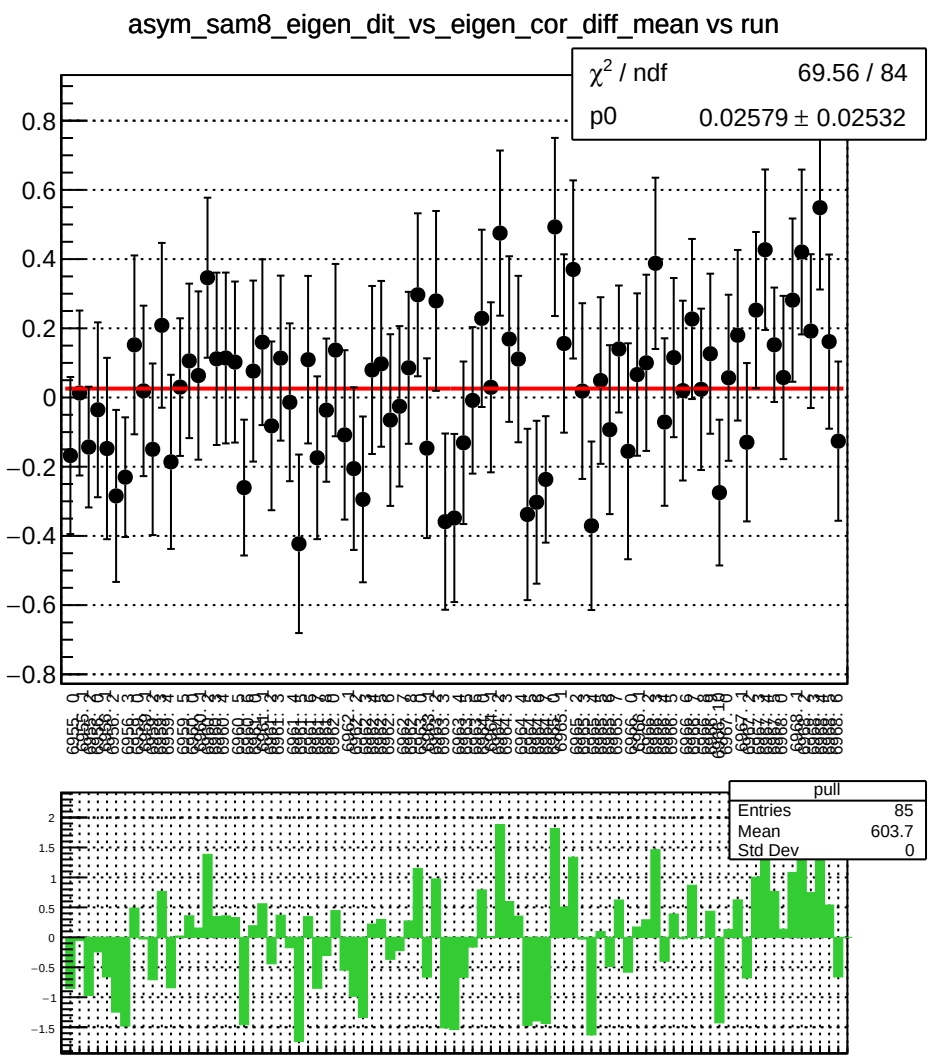

pull1D
Entries 85
Mean 0.0174
Std Dev 1.046
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

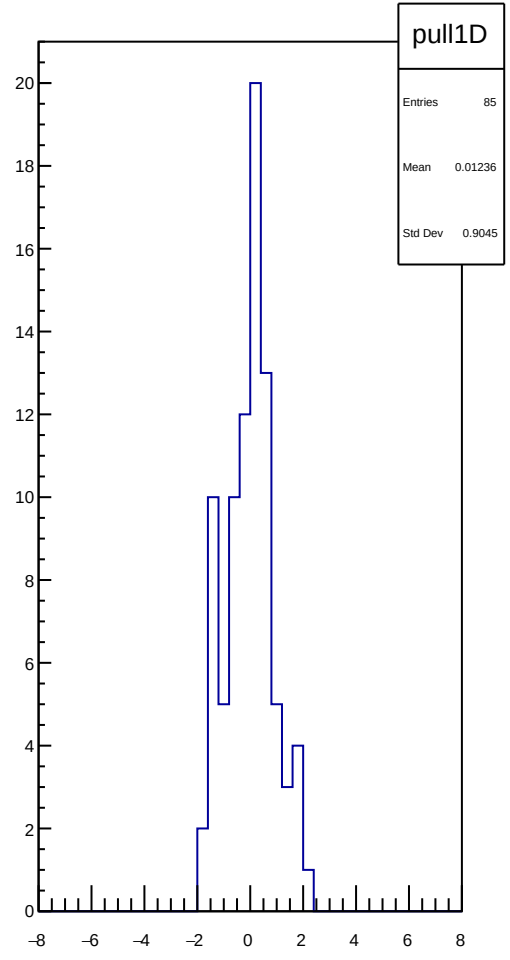

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2980 / 84
p0 0.002013 ± 1.572e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

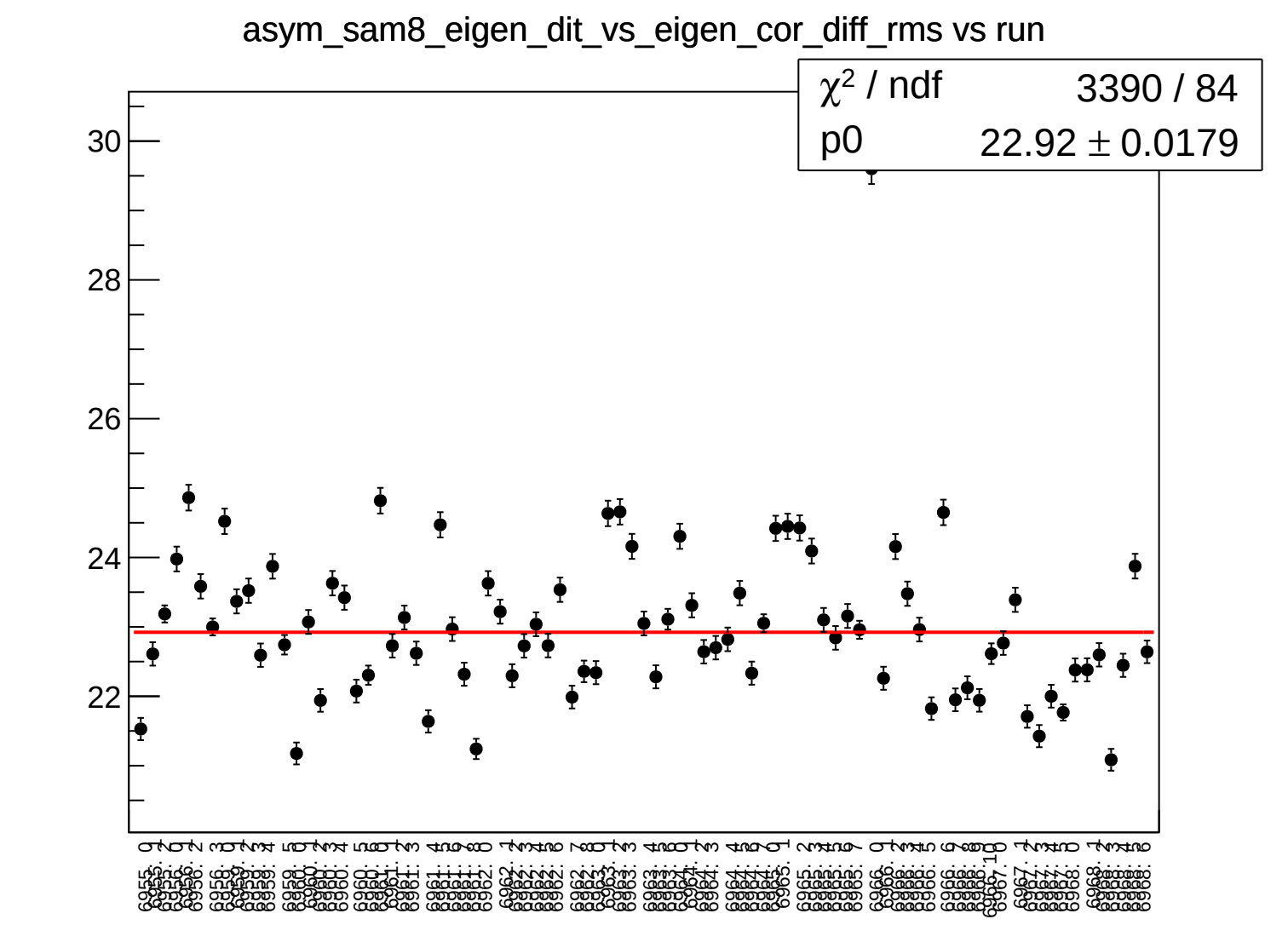

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.56 / 84
p0 0.02579 ± 0.02532
pull
Entries 85
Mean 603.7
Std Dev 0

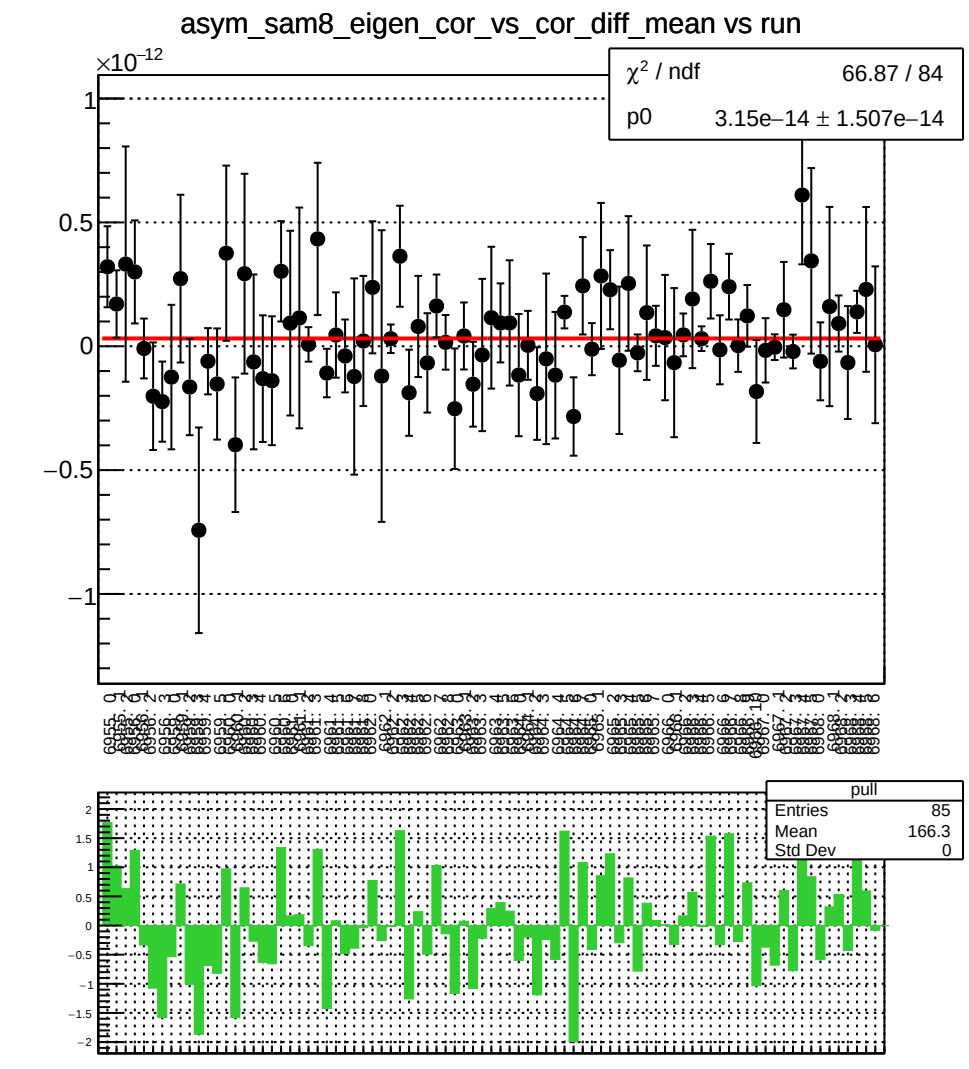

pull1D
Entries 85
Mean 0.01236
Std Dev 0.9045

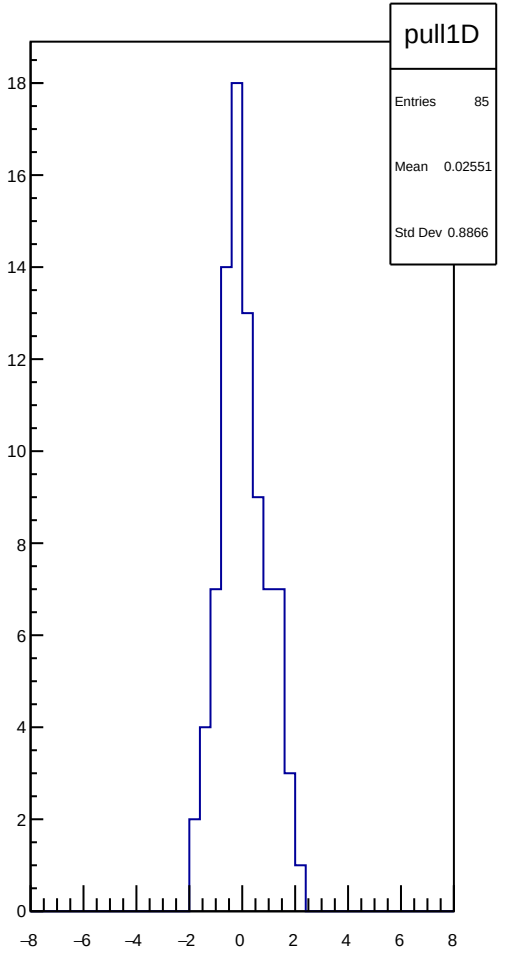

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3390 / 84
p0 22.92 ± 0.0179
30
28
26
24
22

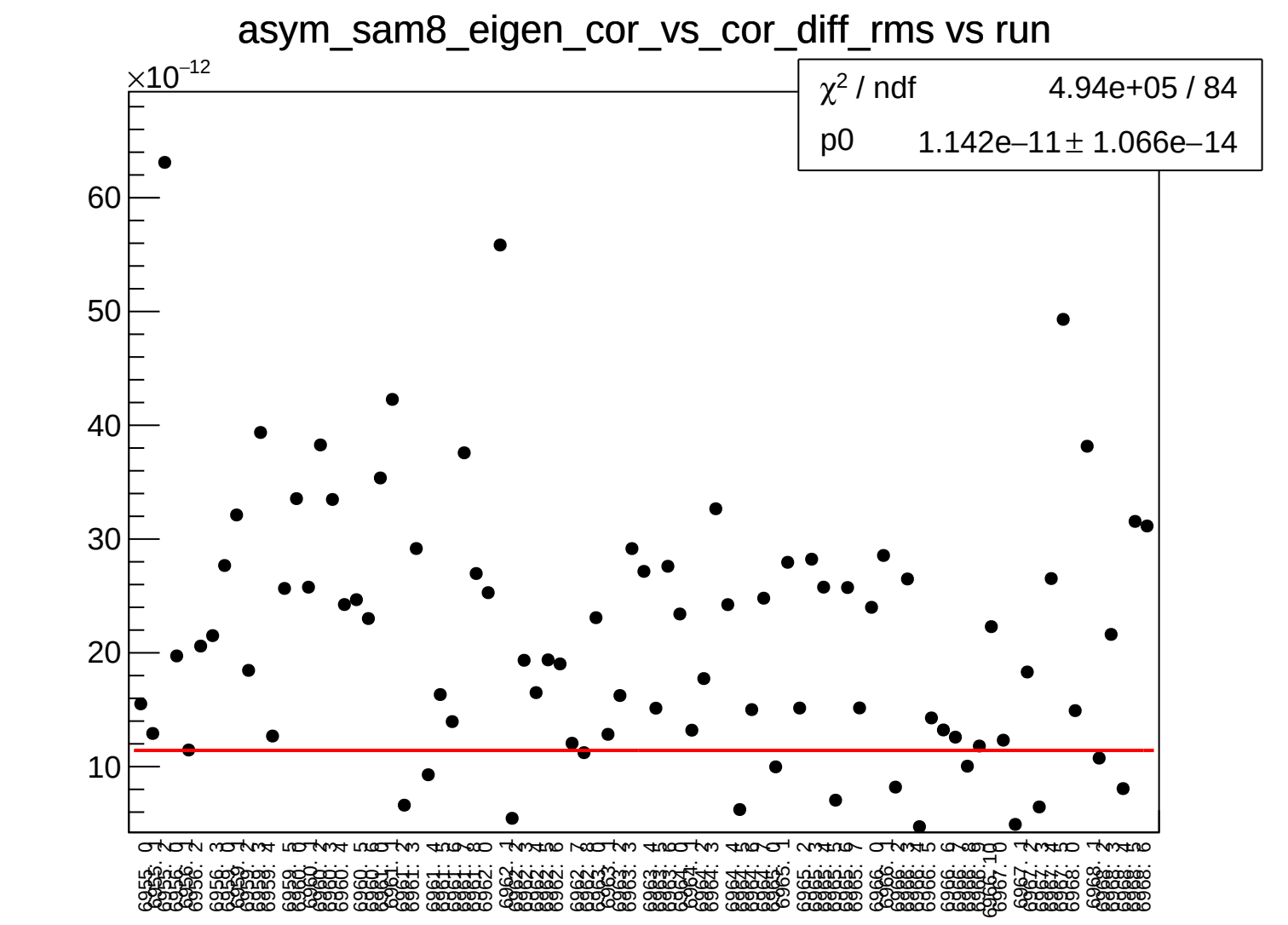

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.56 / 84
p0 0.02579 ± 0.02532
pull
Entries 85
Mean 603.7
Std Dev 0

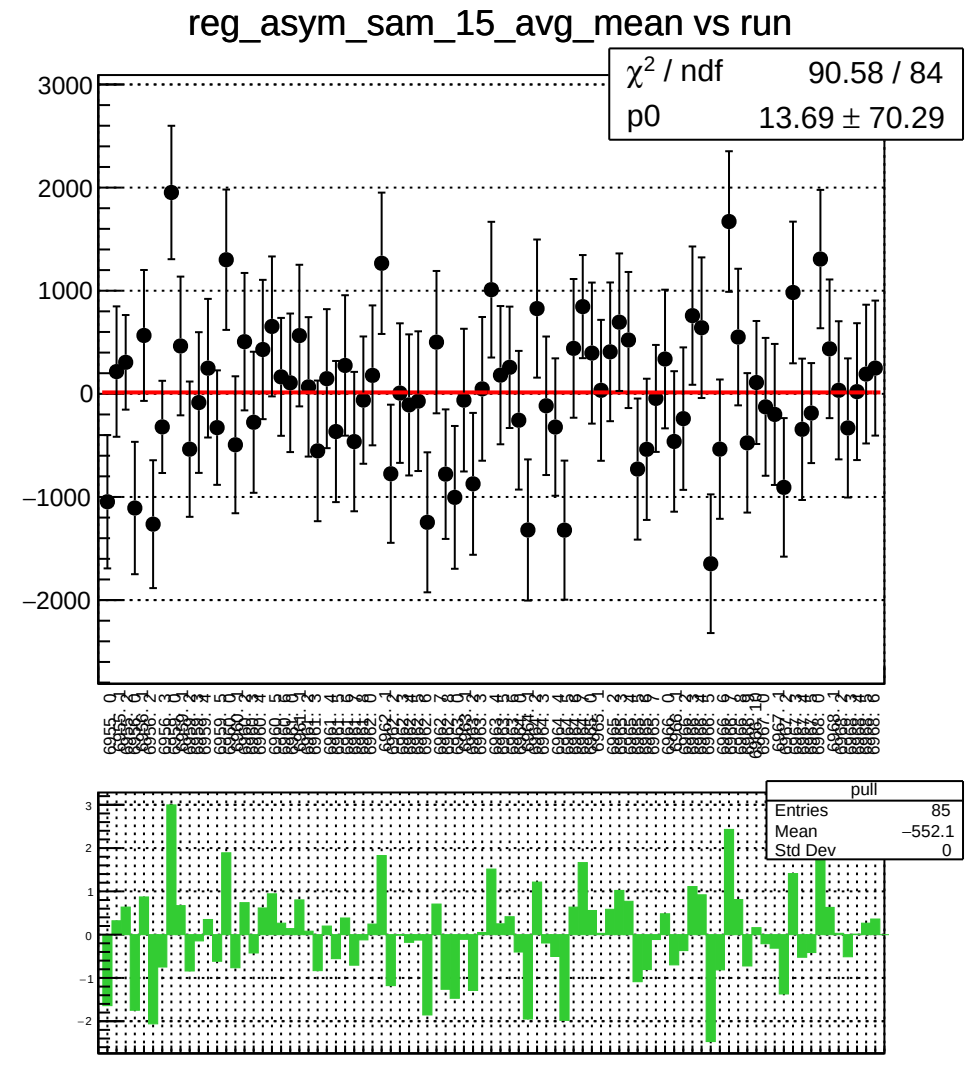

pull1D
Entries 85
Mean 0.01236
Std Dev 0.9045

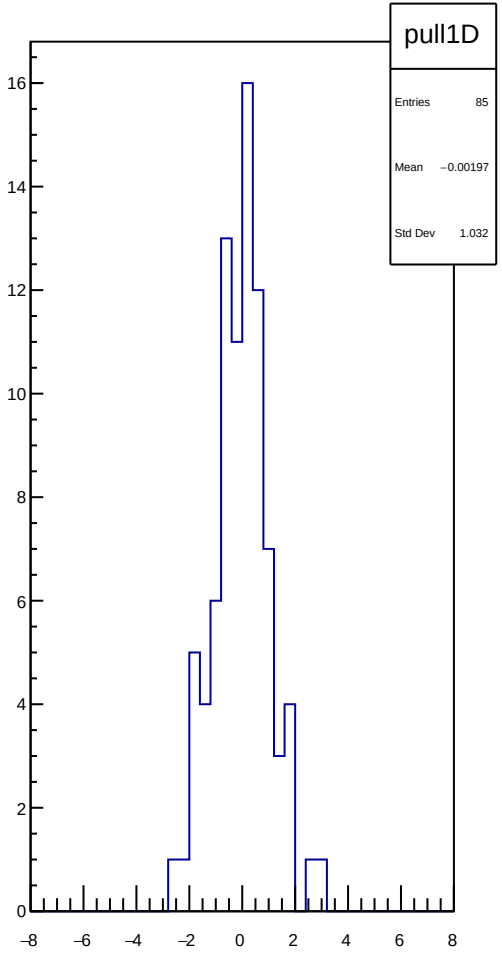

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3390 / 84
p0 22.92 ± 0.0179
30
28
26
24
22

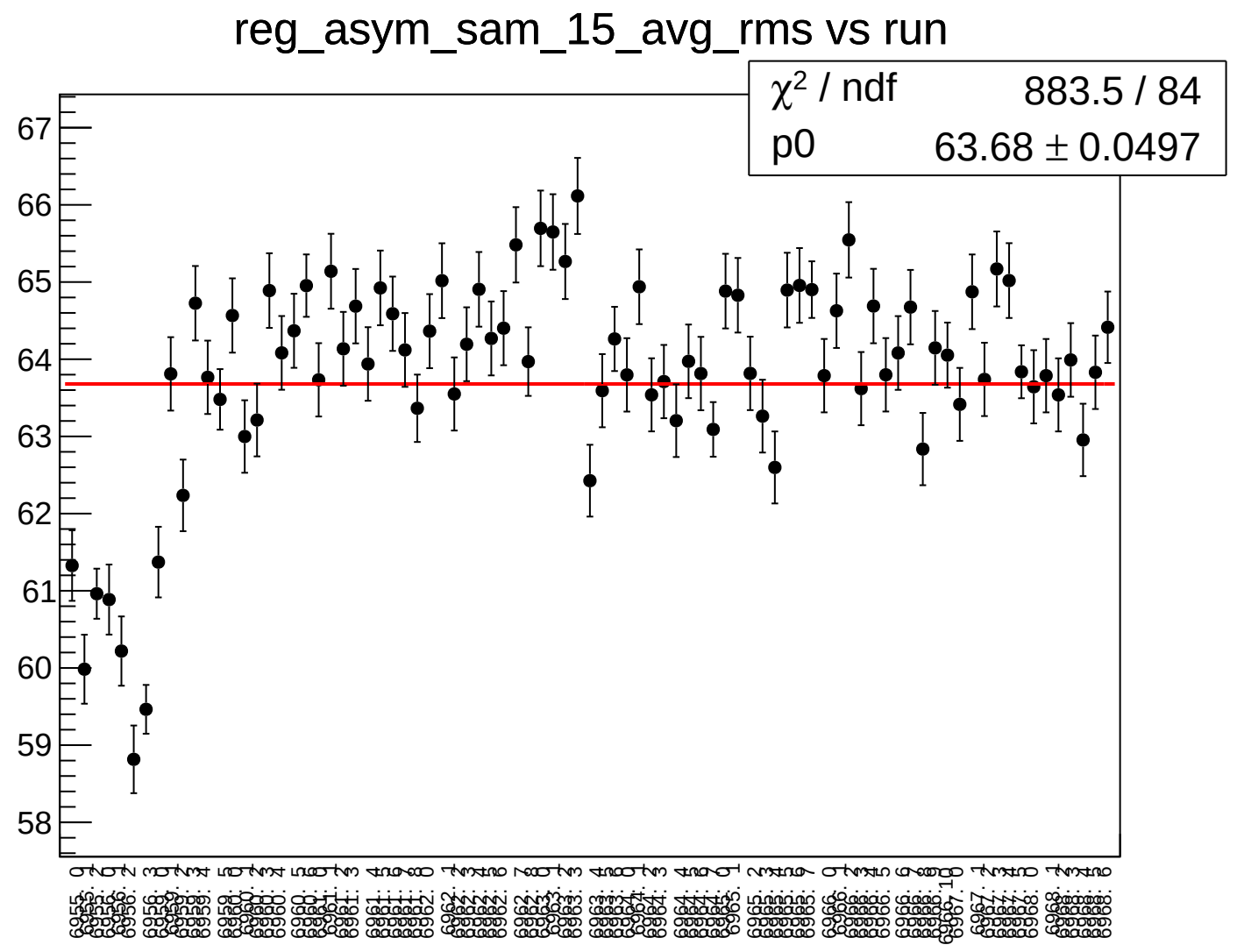

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.87 / 84
p0 3.15e−14 ± 1.507e−14
pull
Entries 85
Mean 166.3
Std Dev 0

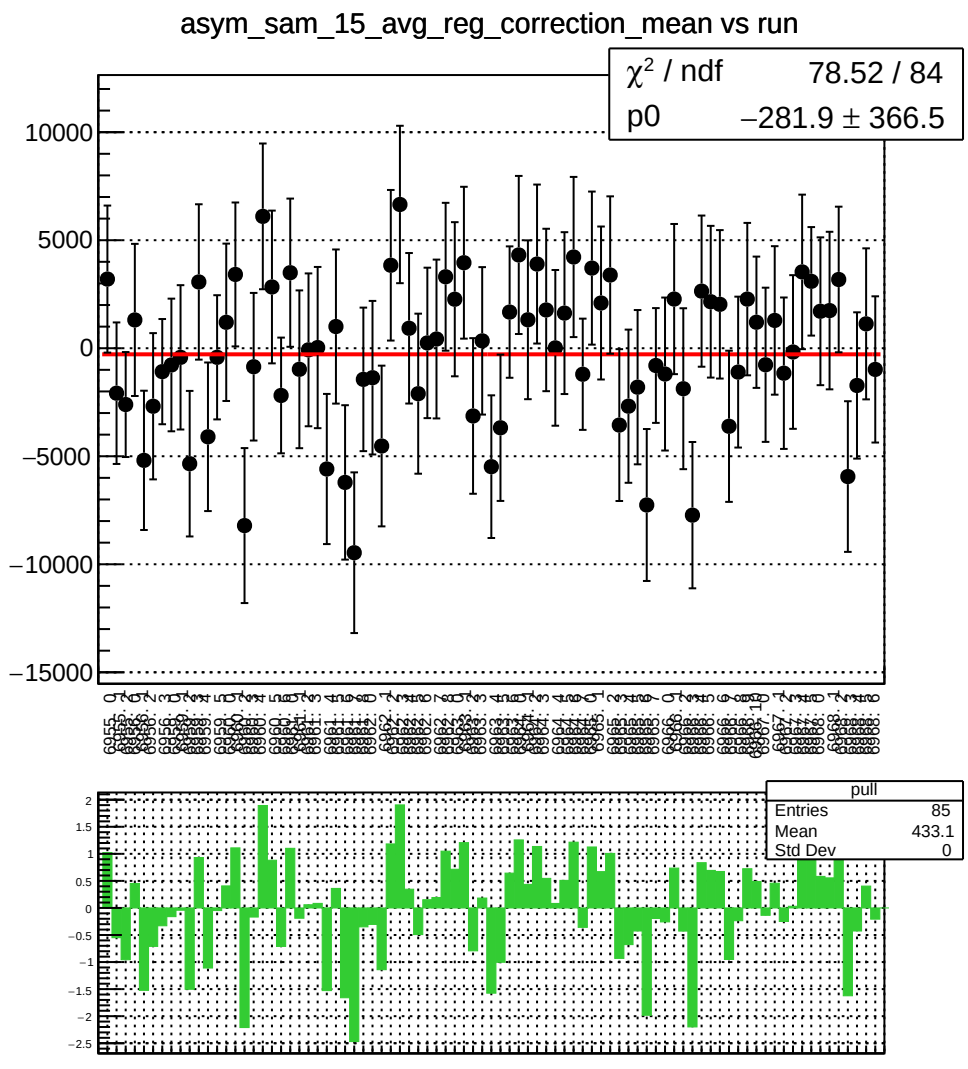

pull1D
Entries 85
Mean 0.02551
Std Dev 0.8866

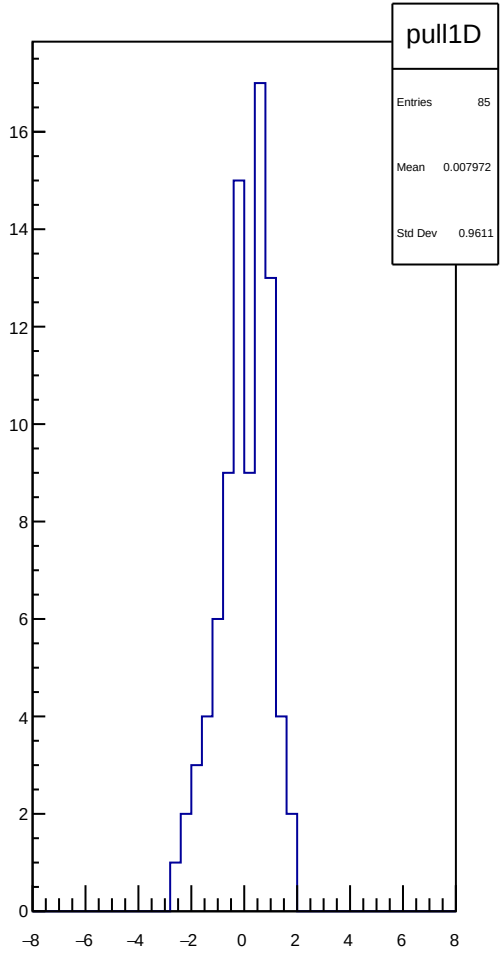

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.94e+05 / 84
p0 1.142e−11 ± 1.066e−14
60
50
40
30
20
10

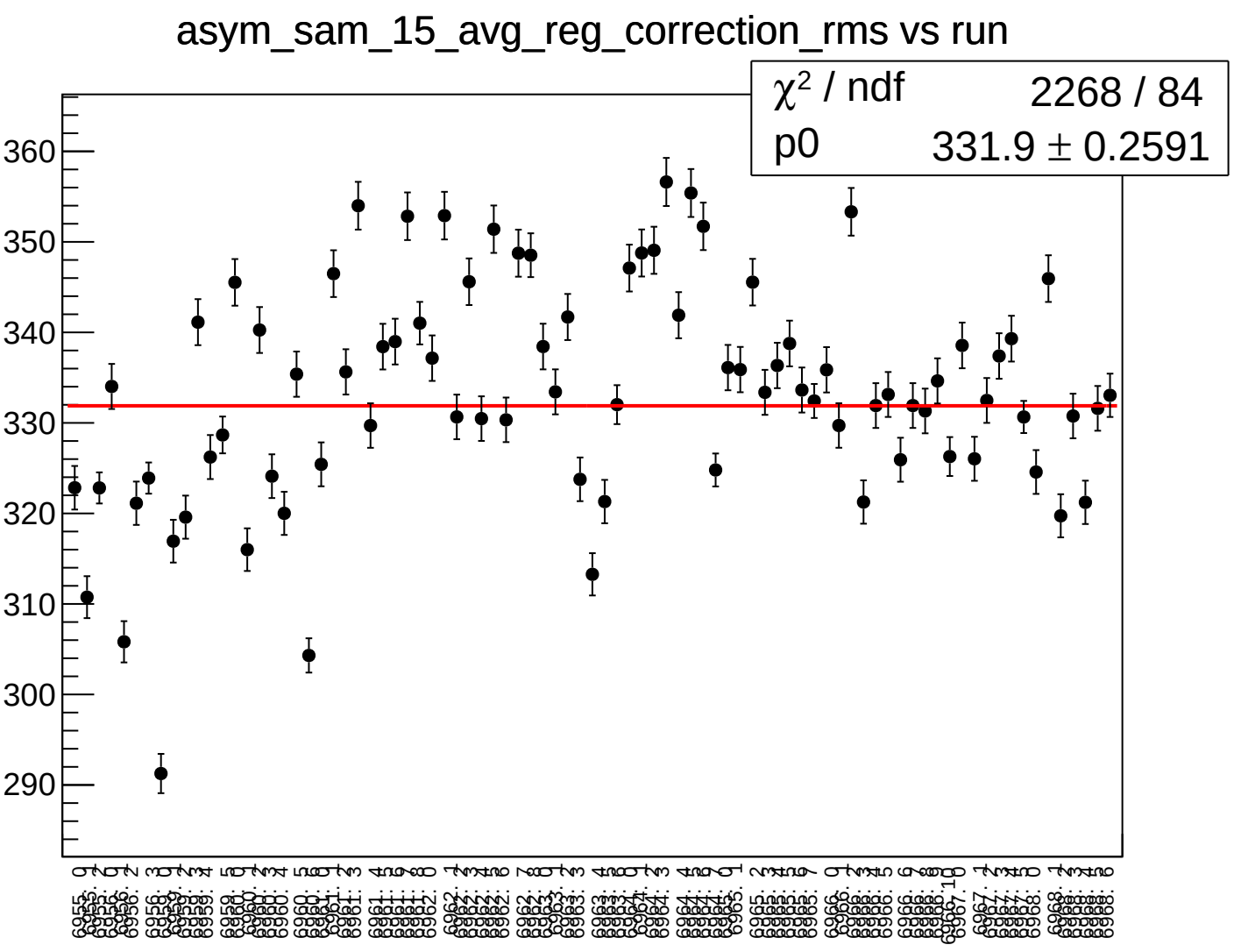

reg_asym_sam_15_avg_mean vs run
χ² / ndf 90.58 / 84
p0 13.69 ± 70.29
pull
Entries 85
Mean −552.1
Std Dev 0

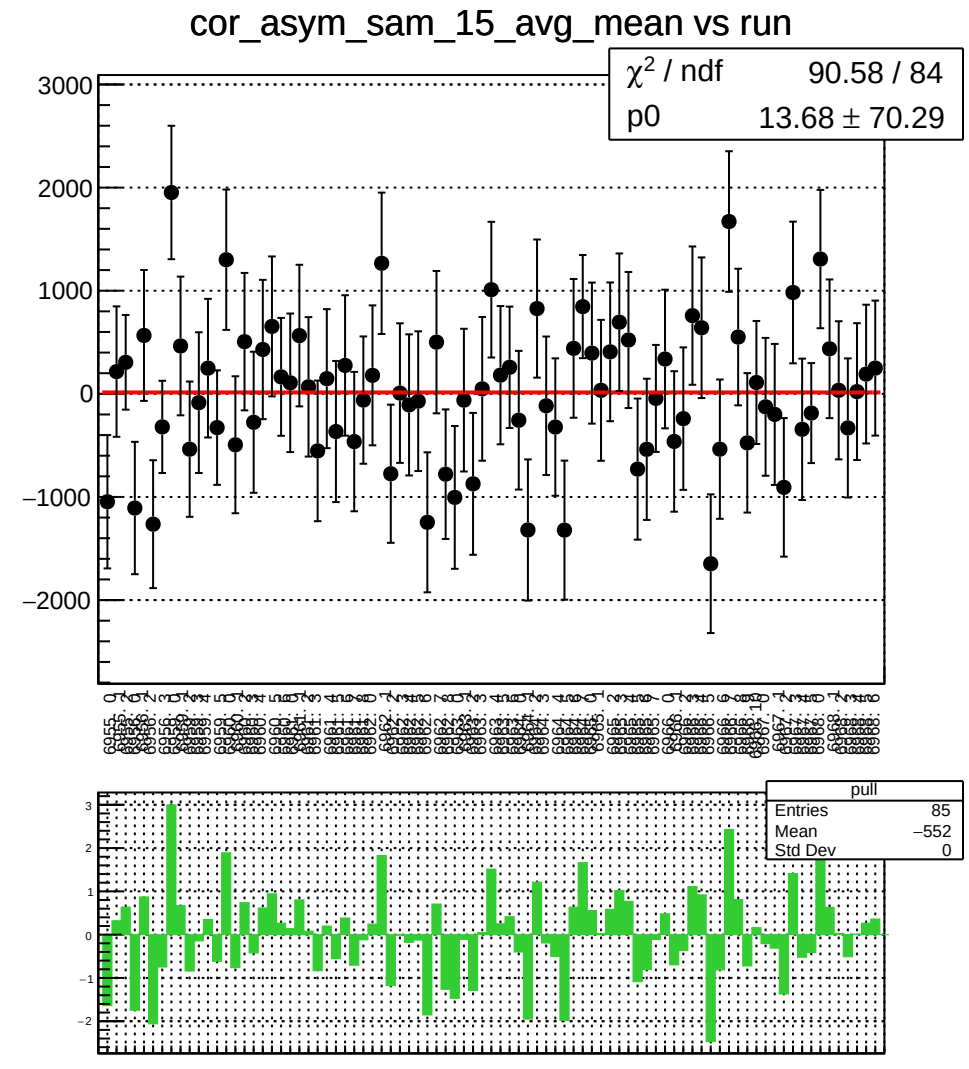

pull1D
Entries 85
Mean −0.00197
Std Dev 1.032

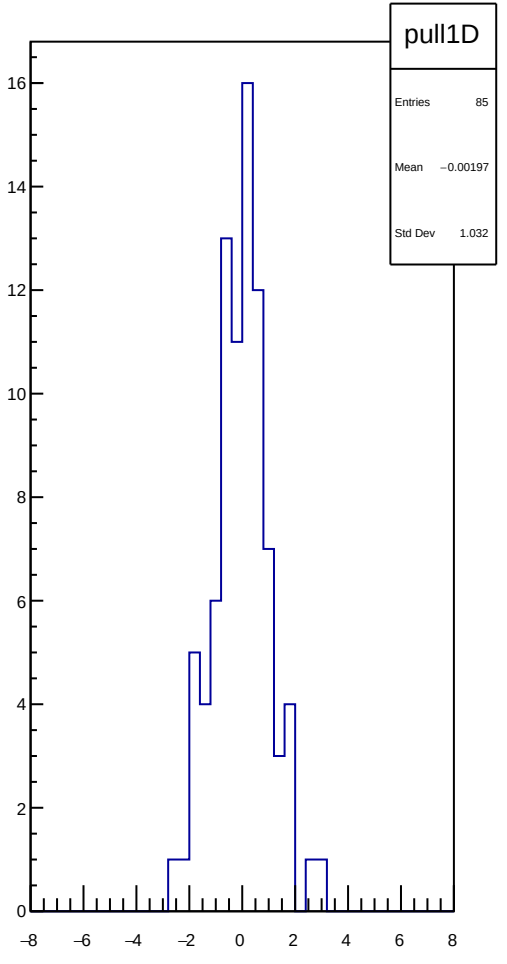

reg_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 883.5 / 84
p0 63.68 ± 0.0497
67
66
65
64
63
62
61
60
59
58

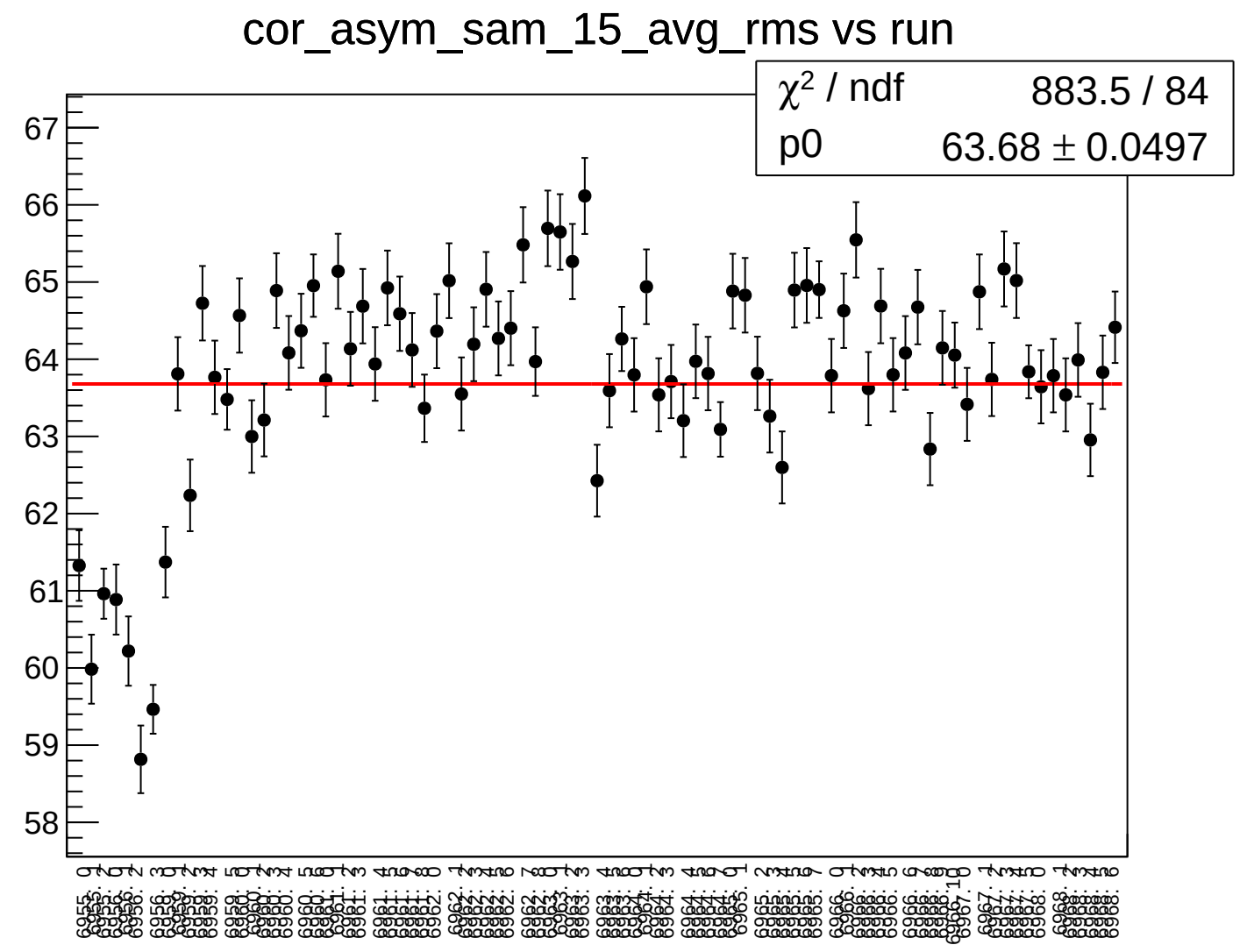

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 78.52 / 84
p0 −281.9 ± 366.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 433.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

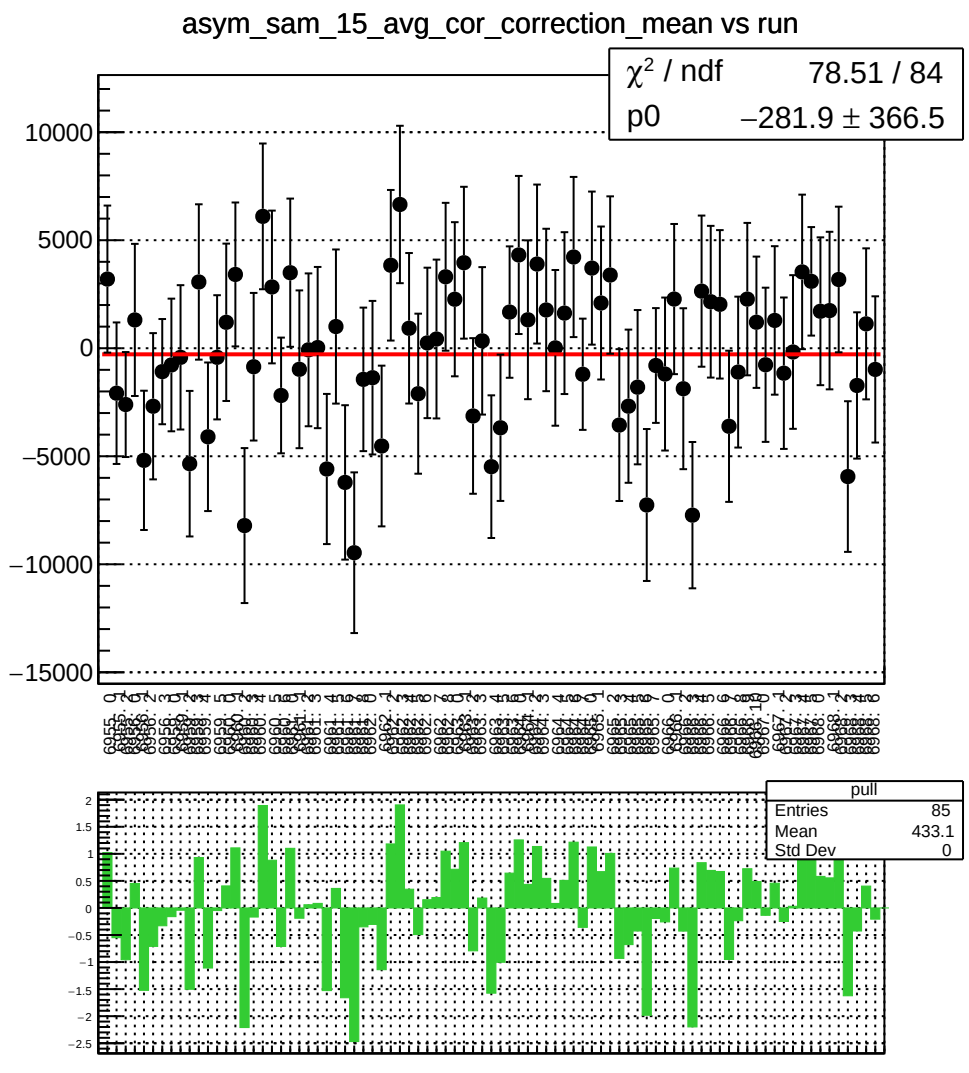

pull1D
Entries 85
Mean 0.007972
Std Dev 0.9611
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

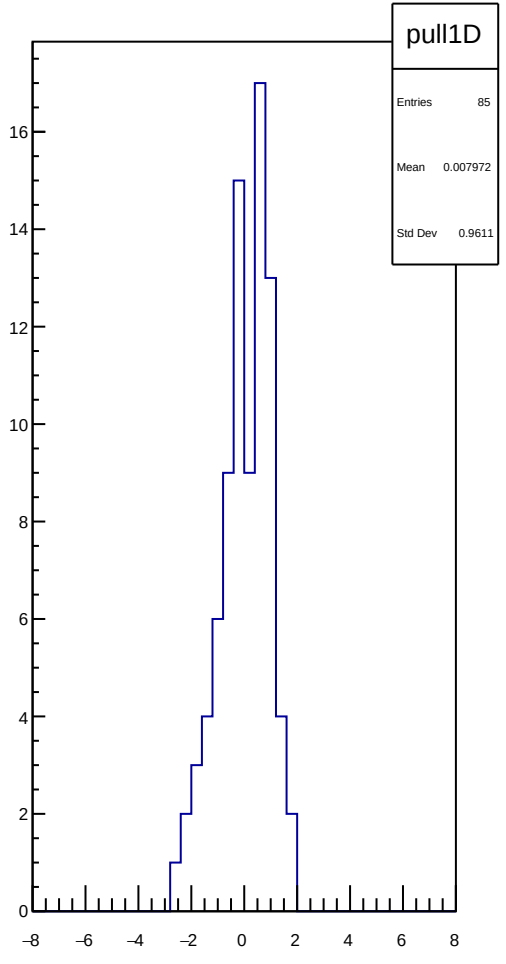

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 2268 / 84
p0 331.9 ± 0.2591
360
350
340
330
320
310
300
290

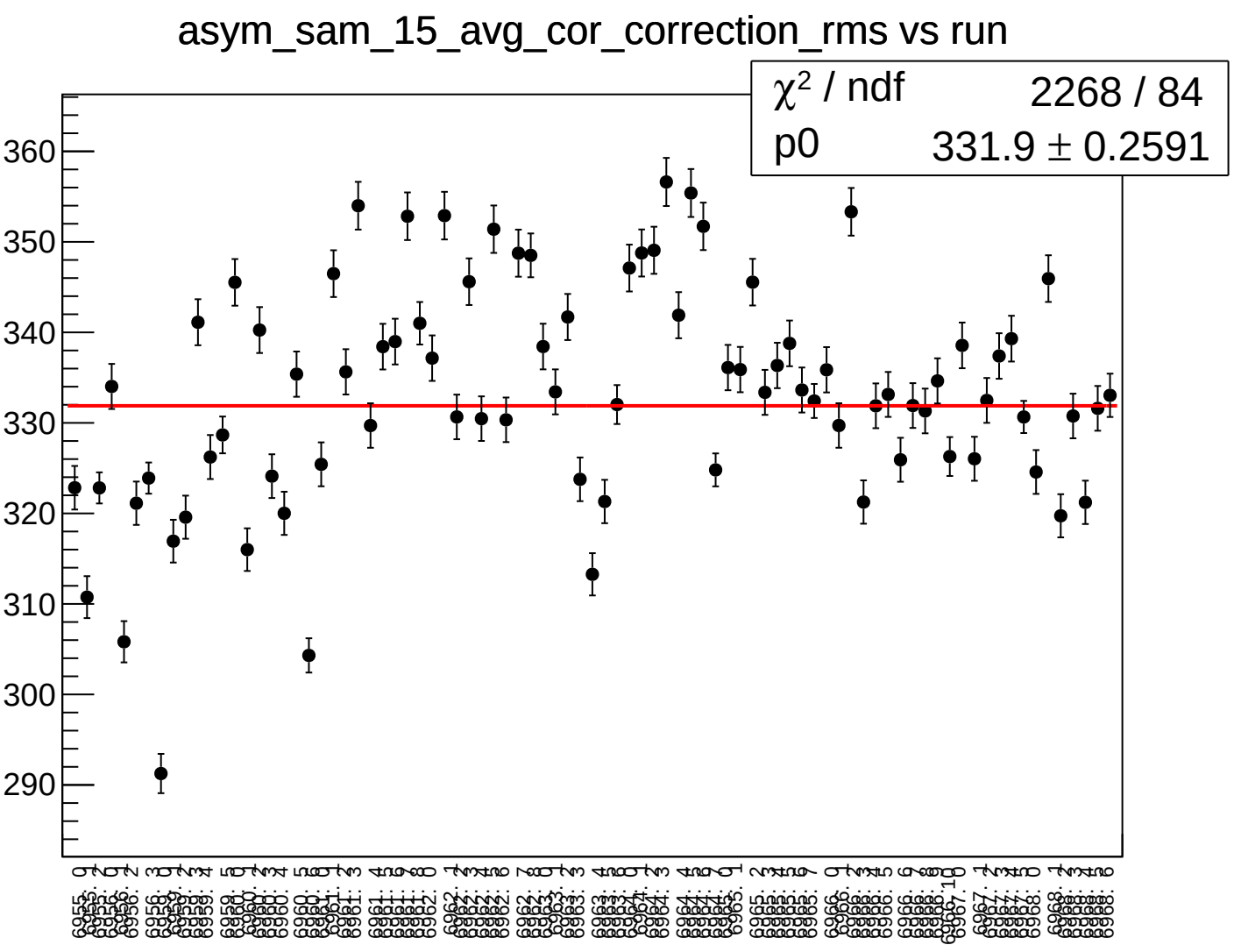

cor_asym_sam_15_avg_mean vs run
χ² / ndf 90.58 / 84
p0 13.68 ± 70.29
pull
Entries 85
Mean −552
Std Dev 0

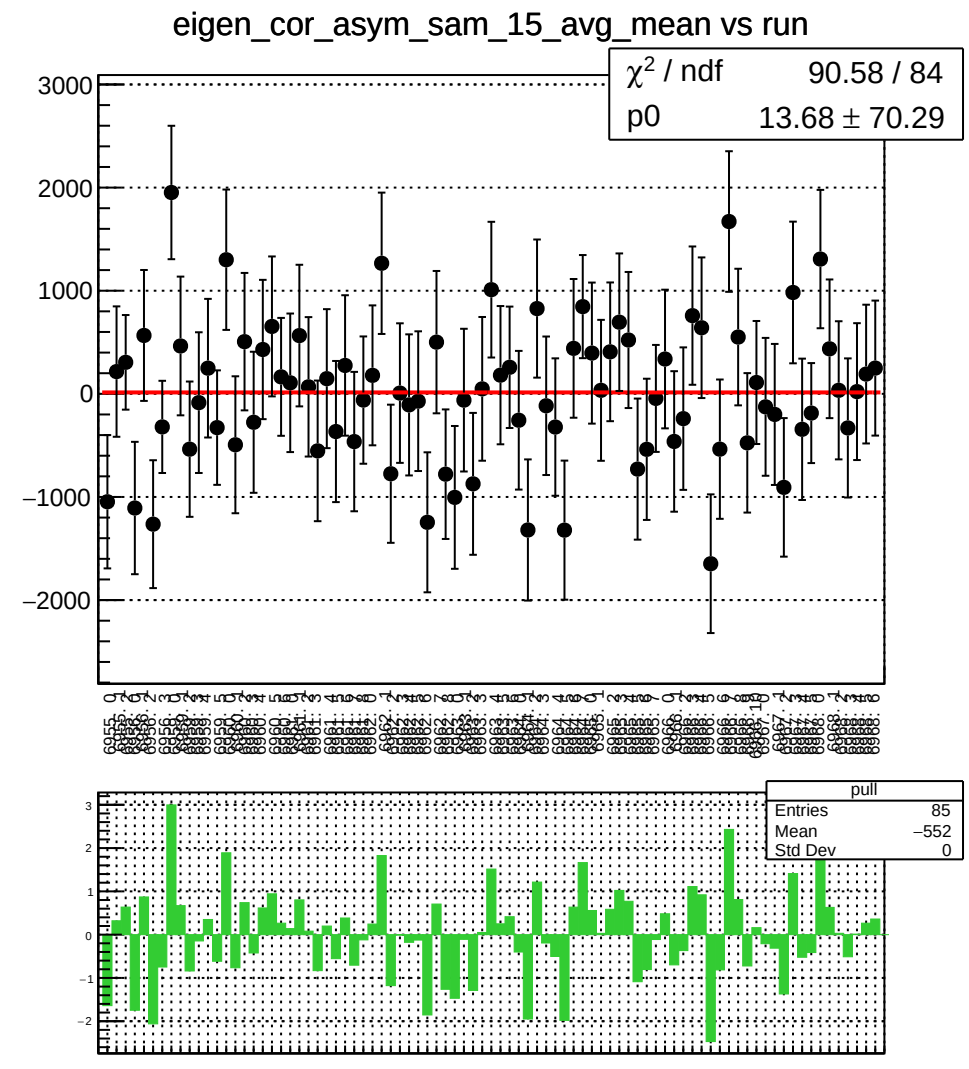

pull1D
Entries 85
Mean −0.00197
Std Dev 1.032

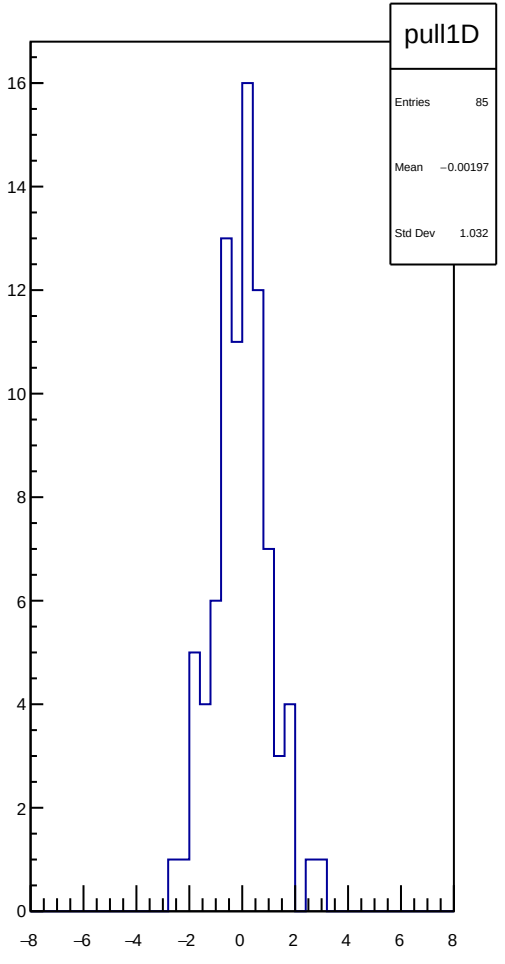

cor_asym_sam_15_avg_rms vs run
χ² / ndf 883.5 / 84
p0 63.68 ± 0.0497
67
66
65
64
63
62
61
60
59
58

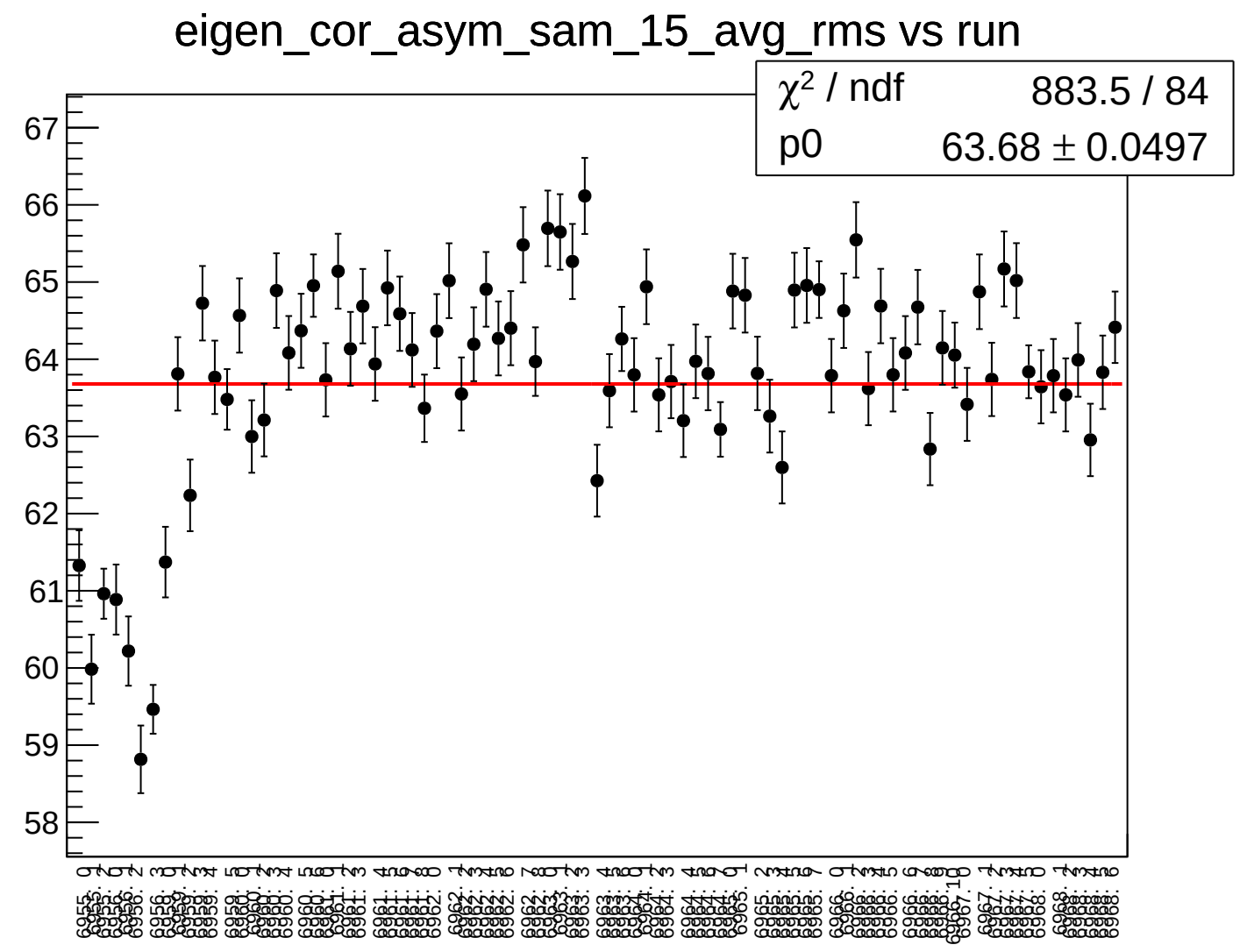

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 78.51 / 84
p0 −281.9 ± 366.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 433.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

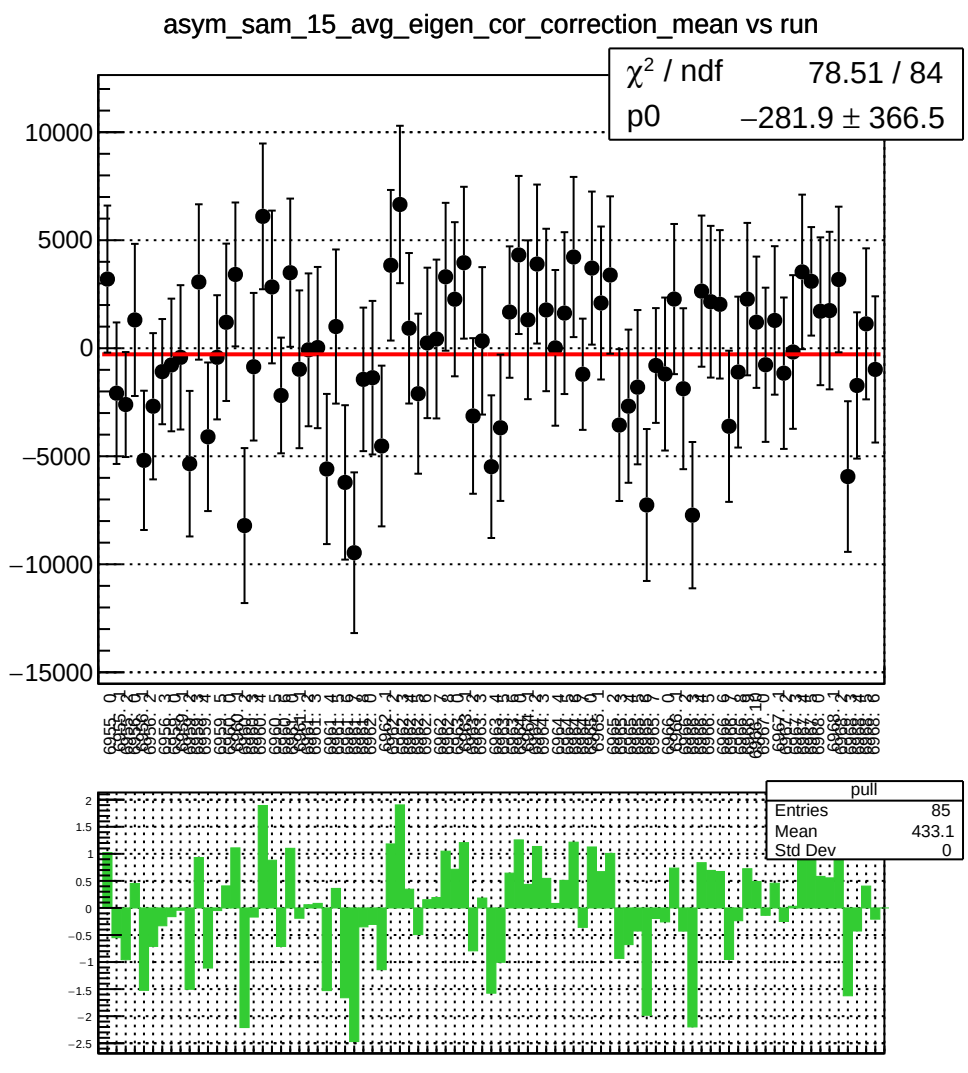

pull1D
Entries 85
Mean 0.007972
Std Dev 0.9611
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

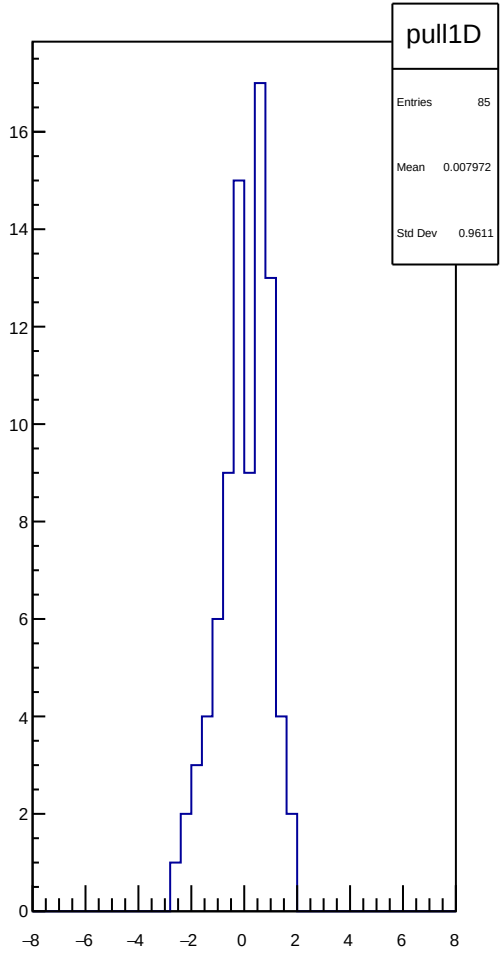

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 2268 / 84
p0 331.9 ± 0.2591
360
350
340
330
320
310
300
290

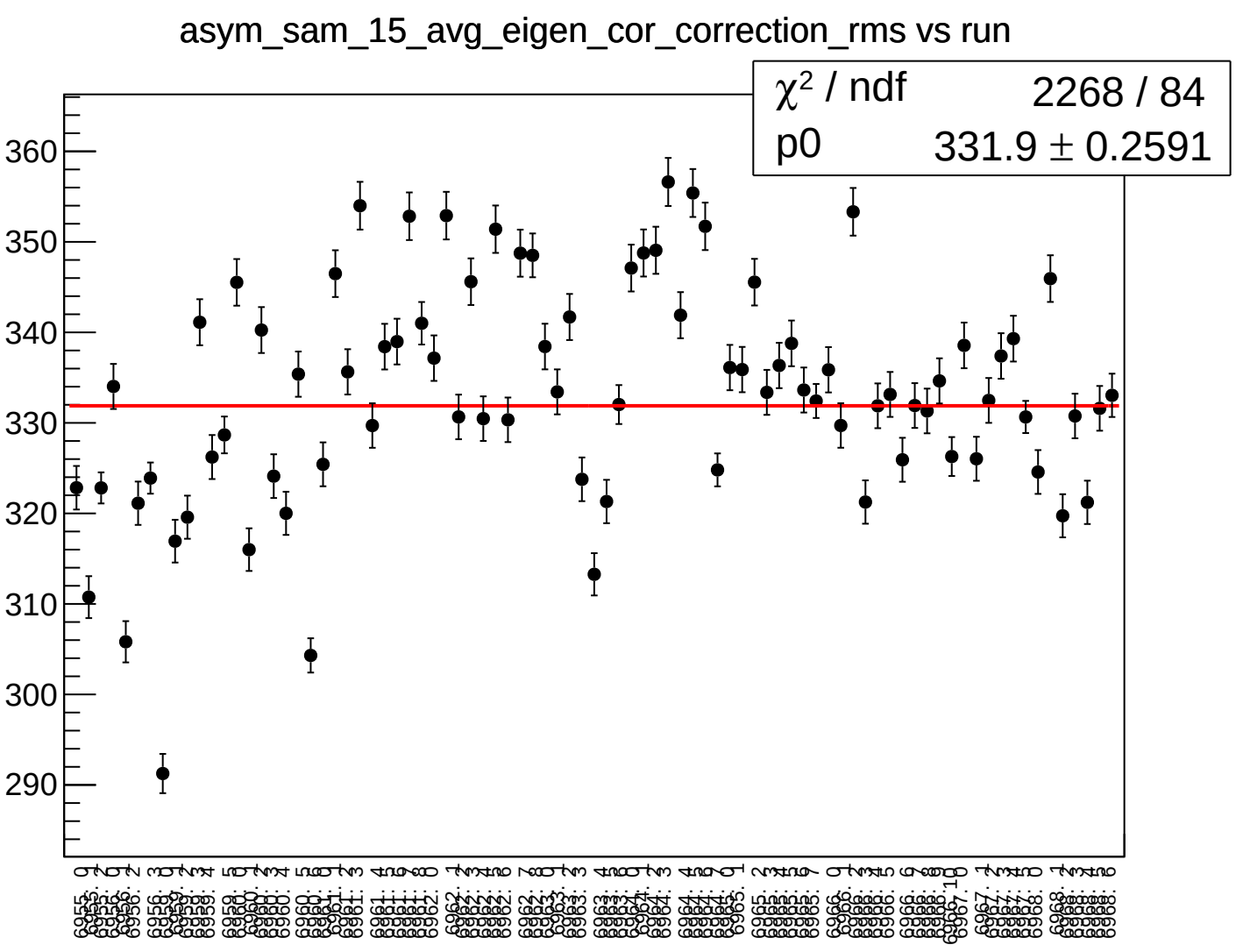

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 90.58 / 84
p0 13.68 ± 70.29
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −552
Std Dev 0
3
2
1
0
−1
−2

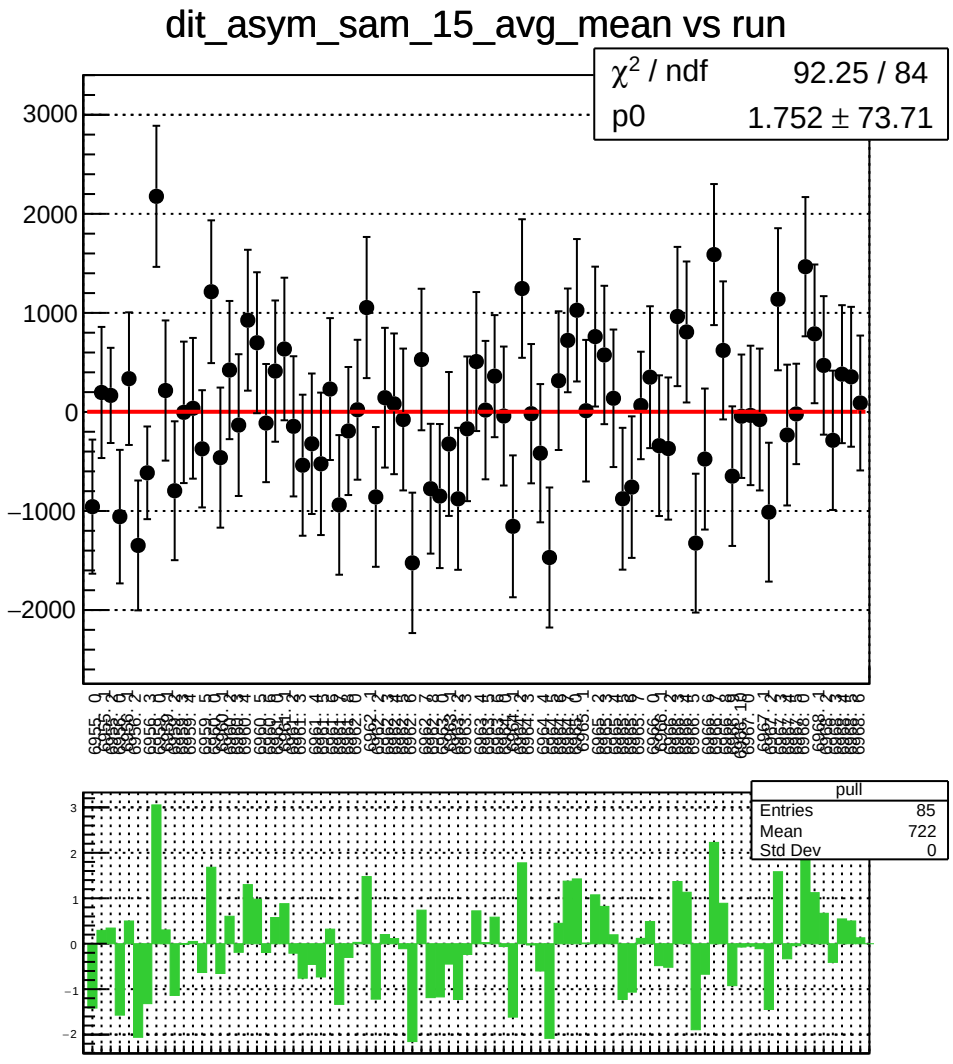

pull1D
Entries 85
Mean −0.00197
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

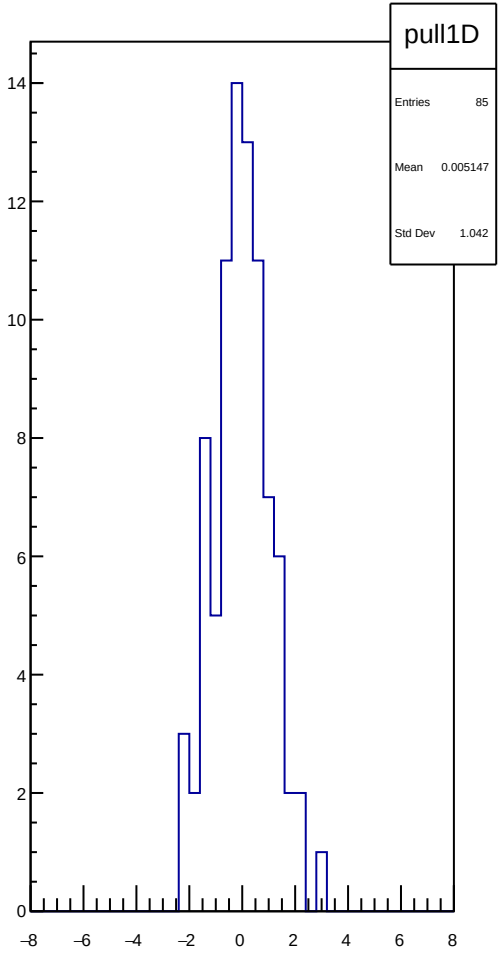

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 883.5 / 84
p0 63.68 ± 0.0497
67
66
65
64
63
62
61
60
59
58

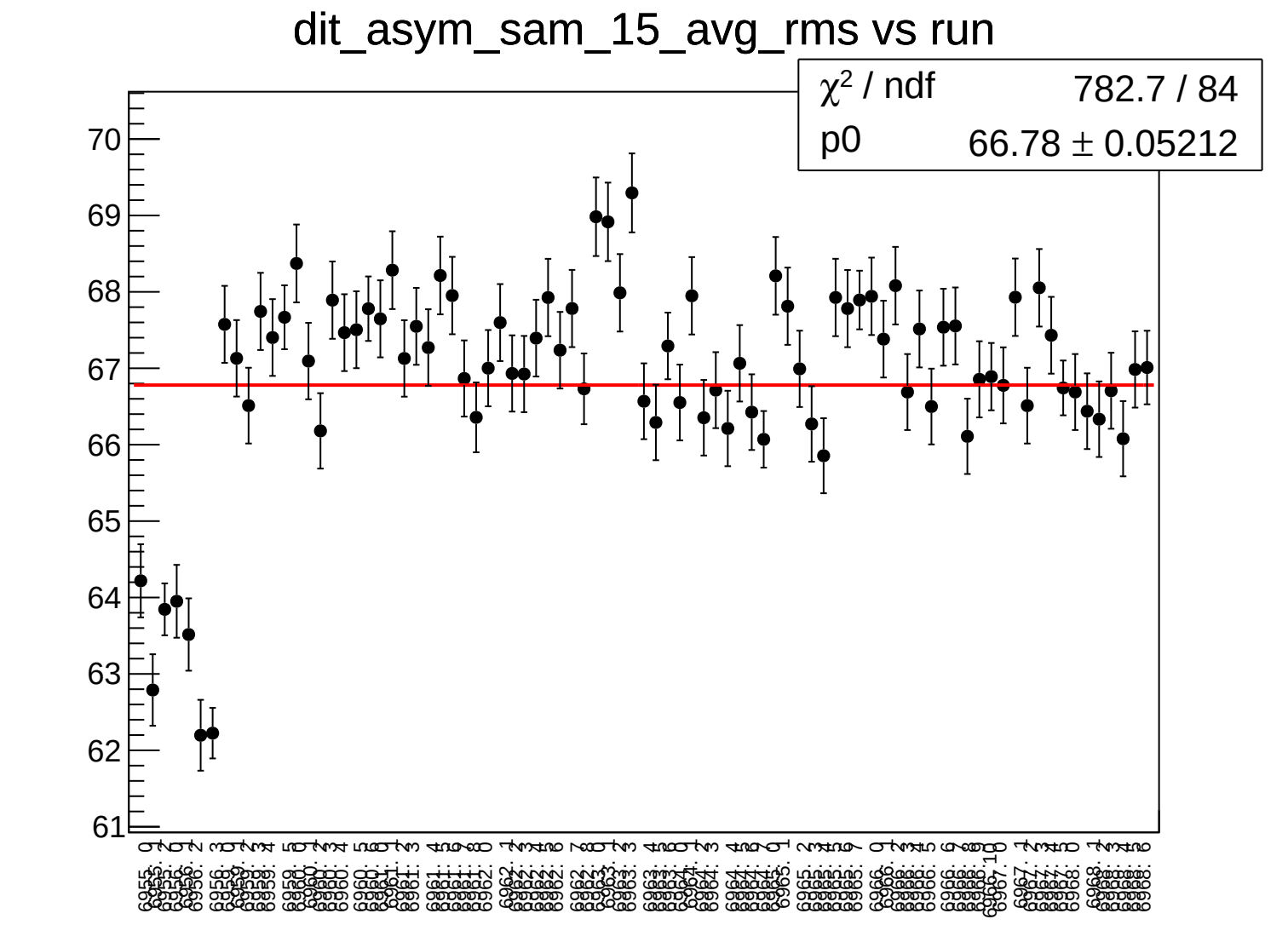

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.51 / 84
p0 −281.9 ± 366.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 433.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

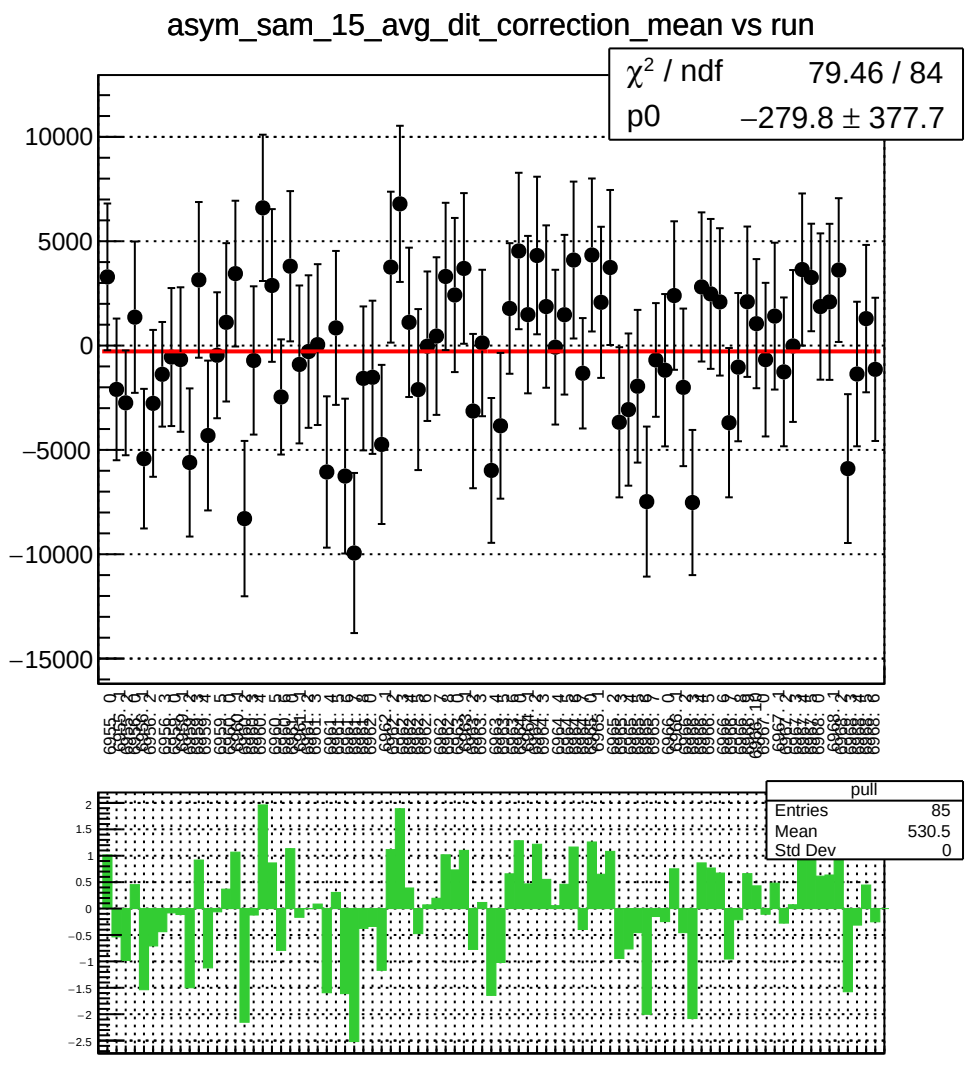

pull1D
Entries 85
Mean 0.007972
Std Dev 0.9611
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

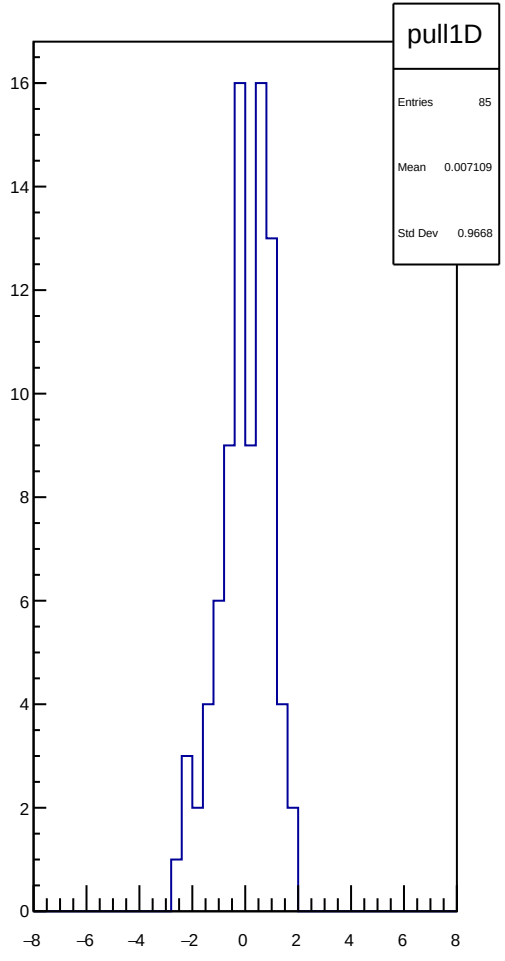

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 2268 / 84
p0 331.9 ± 0.2591
360
350
340
330
320
310
300
290

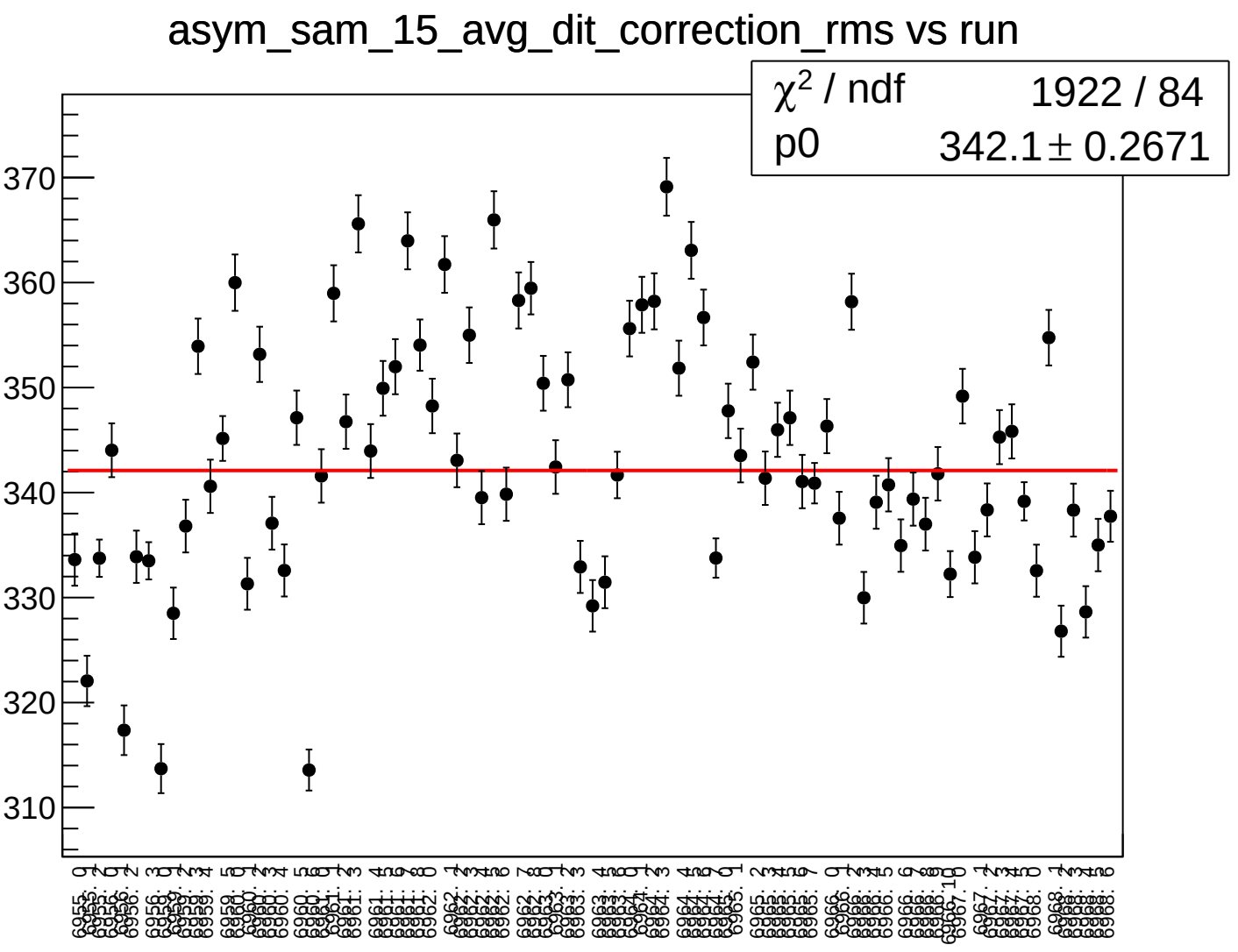

dit_asym_sam_15_avg_mean vs run
$\chi^2$ / ndf 92.25 / 84
p0 1.752 ± 73.71
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 722
Std Dev 0
3
2
1
0
−1
−2

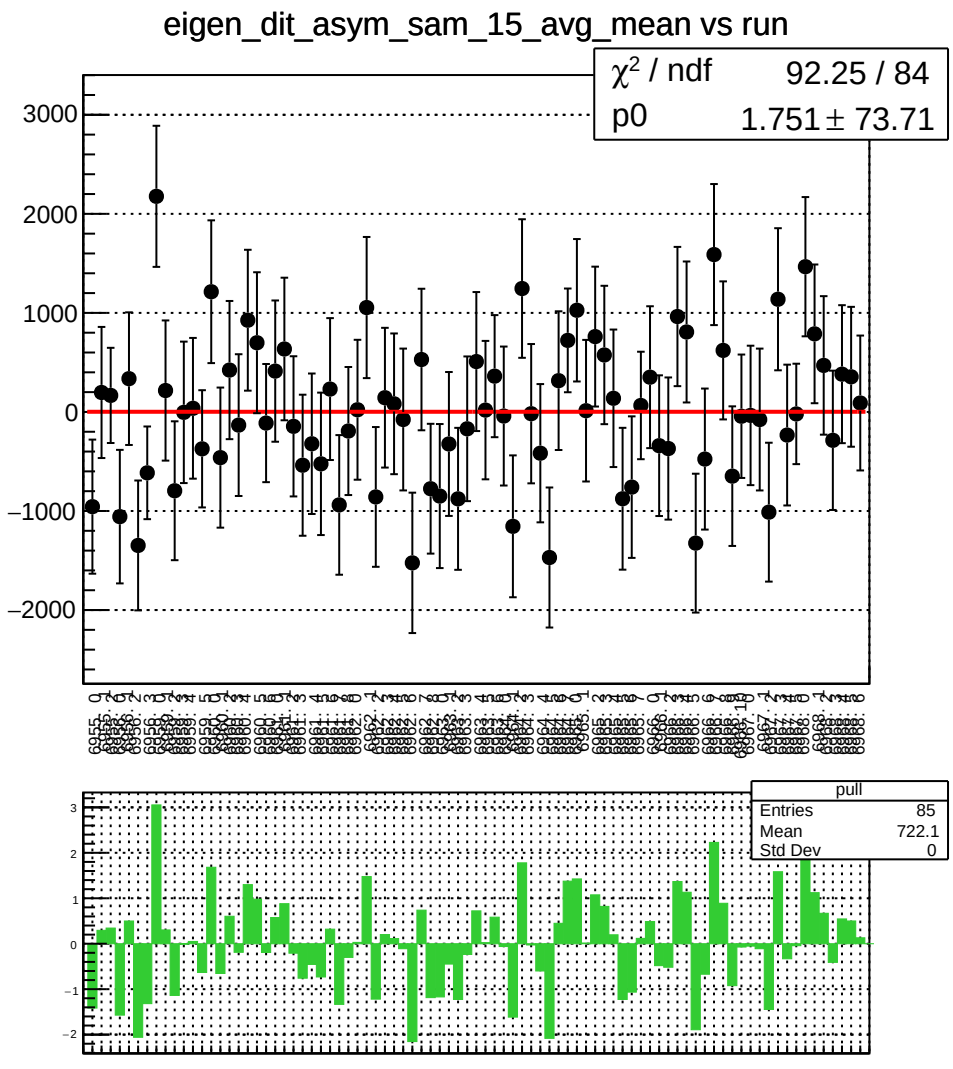

pull1D
Entries 85
Mean 0.005147
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

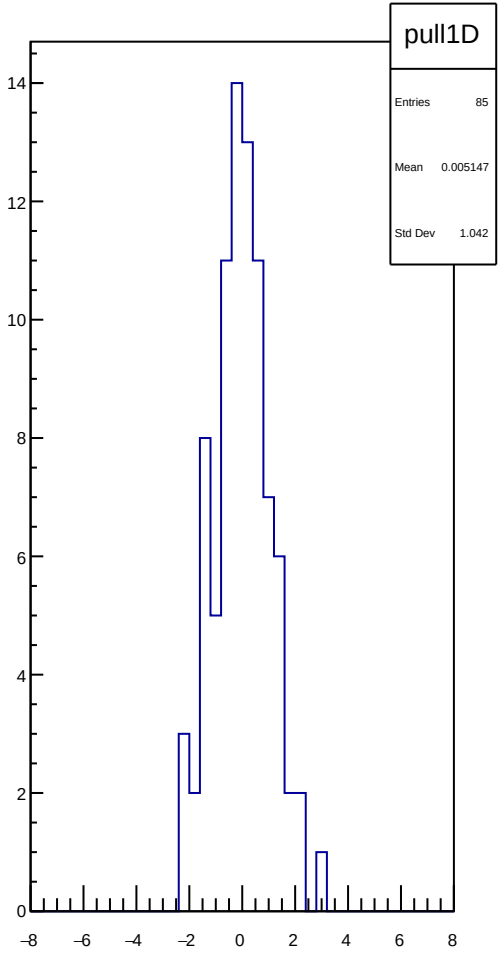

dit_asym_sam_15_avg_rms vs run
χ² / ndf 782.7 / 84
p0 66.78 ± 0.05212
70
69
68
67
66
65
64
63
62
61

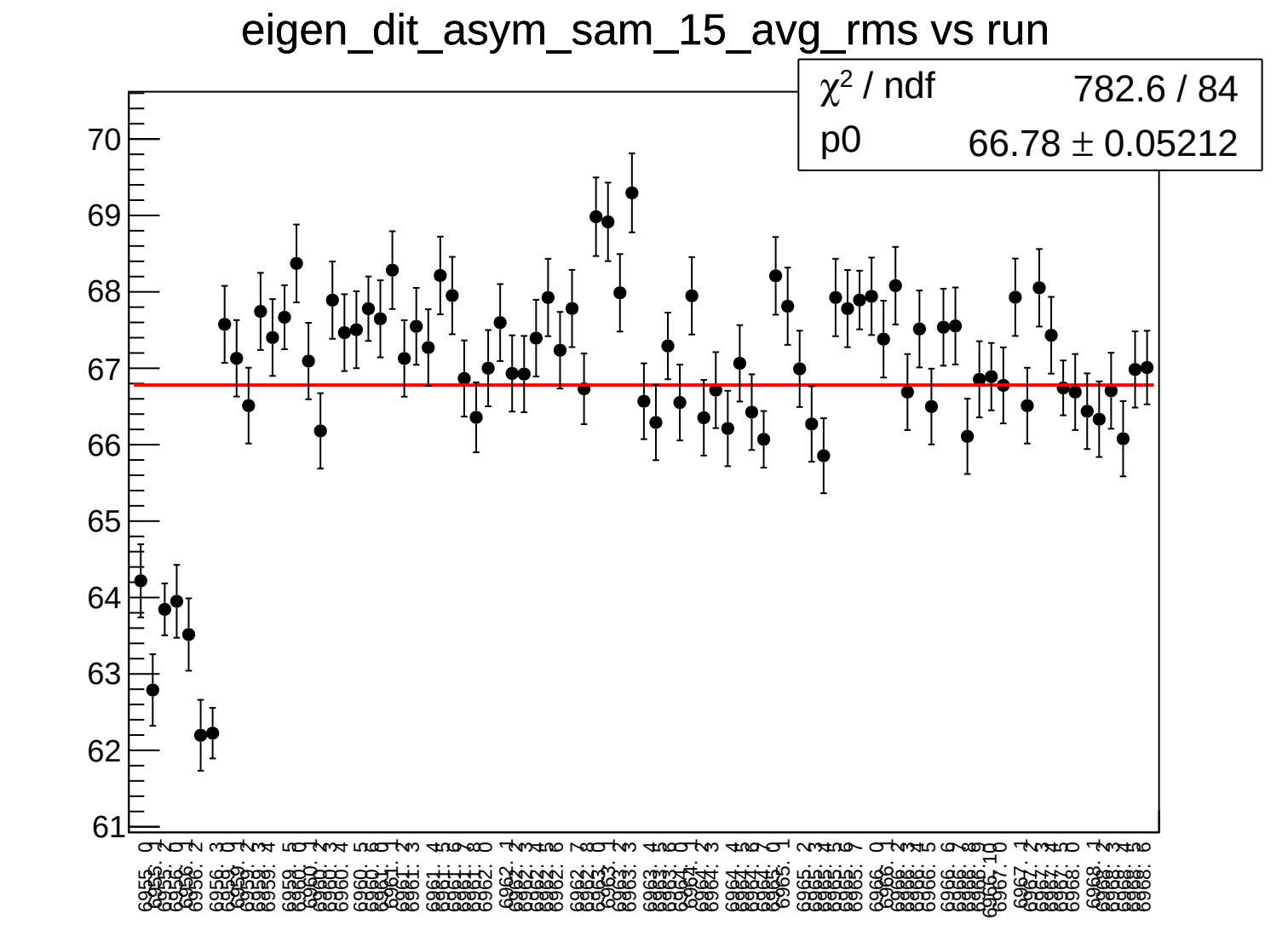

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 79.46 / 84
p0 −279.8 ± 377.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 530.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

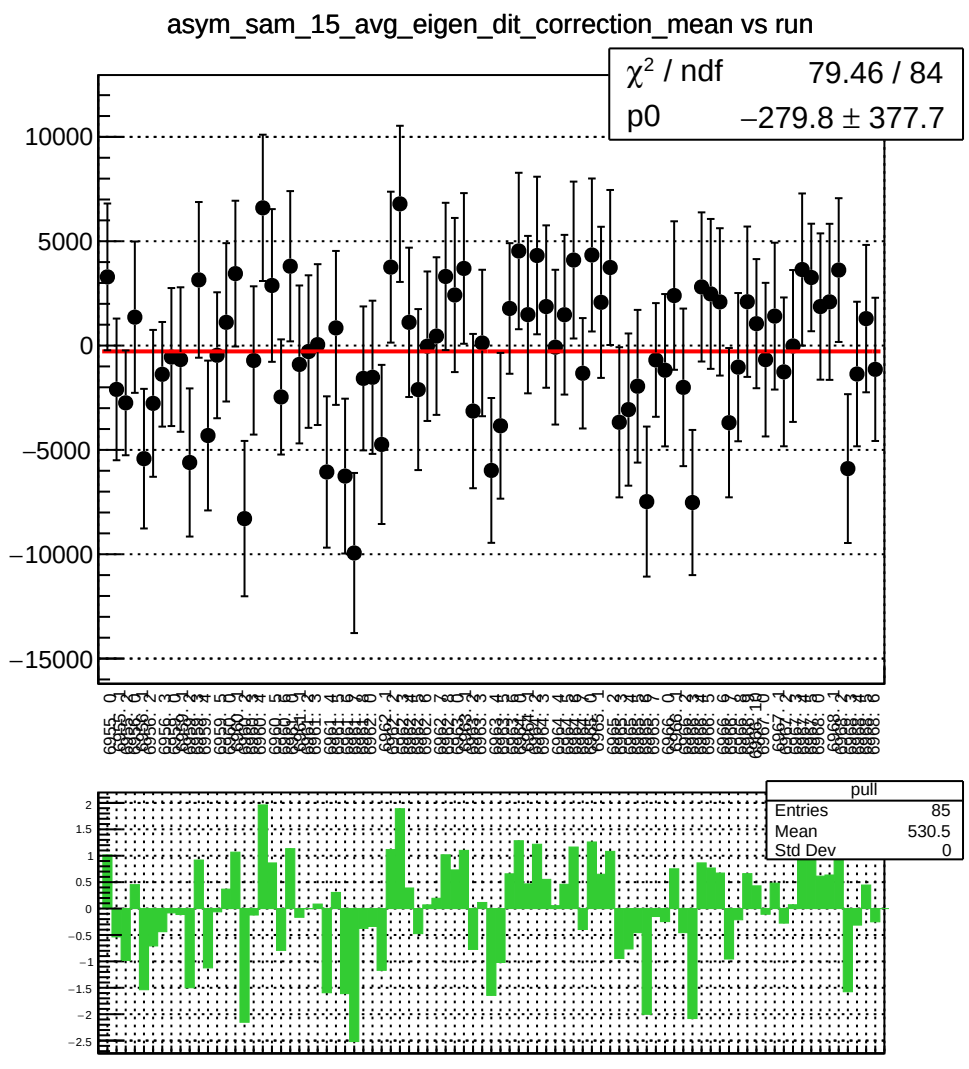

pull1D
Entries 85
Mean 0.007109
Std Dev 0.9668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

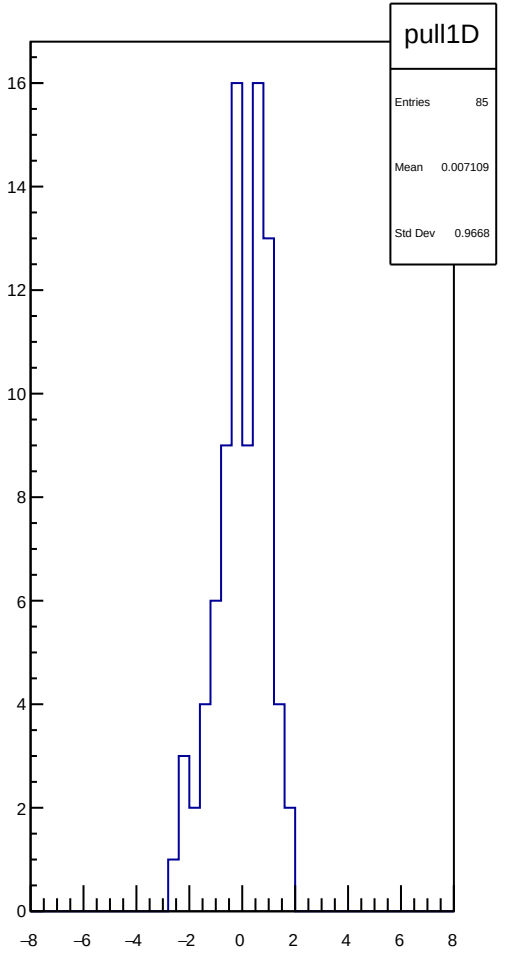

asym_sam_15_avg_dit_correction_rms vs run
$\chi^2$ / ndf 1922 / 84
p0 342.1 ± 0.2671
370
360
350
340
330
320
310

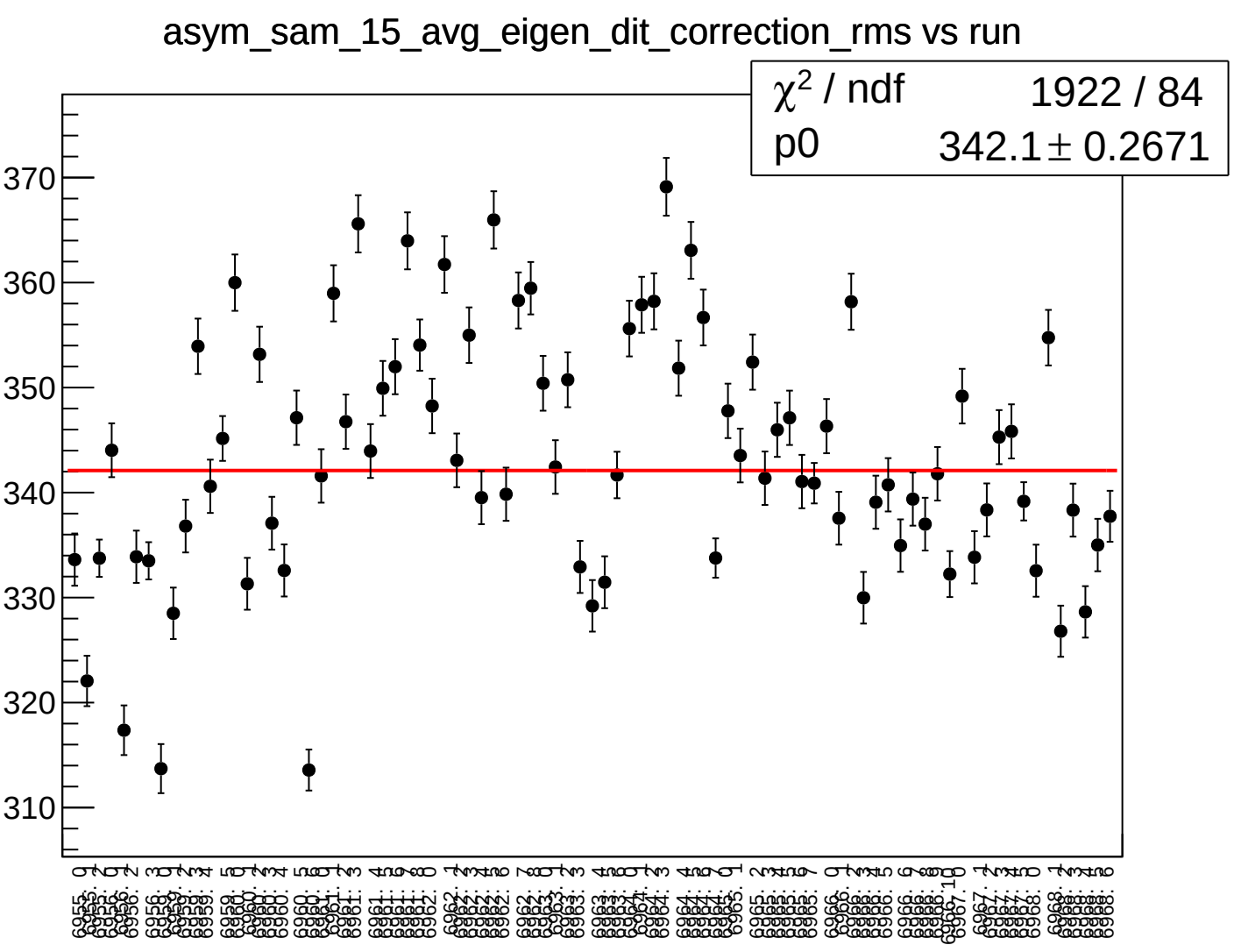

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 92.25 / 84
p0 1.751 ± 73.71
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 722.1
Std Dev 0
3
2
1
0
−1
−2

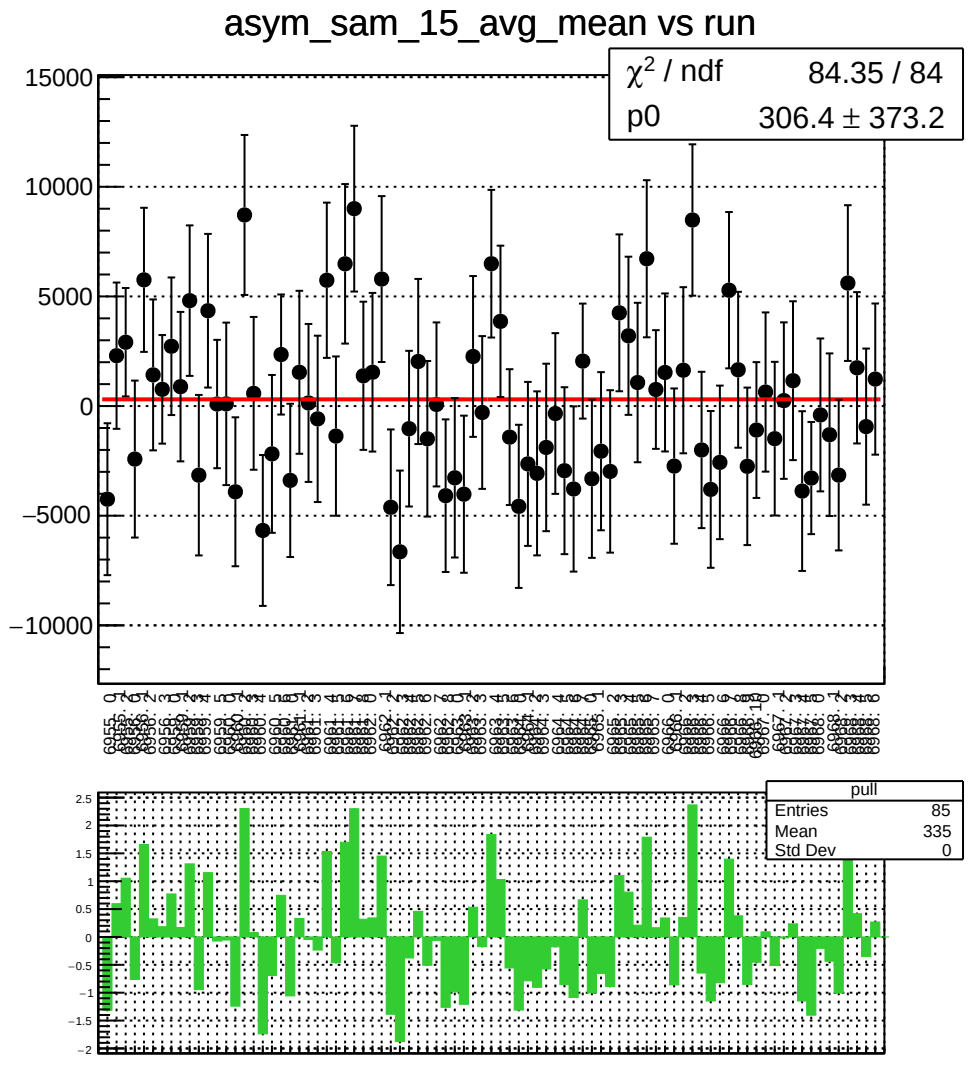

pull1D
Entries 85
Mean 0.005147
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

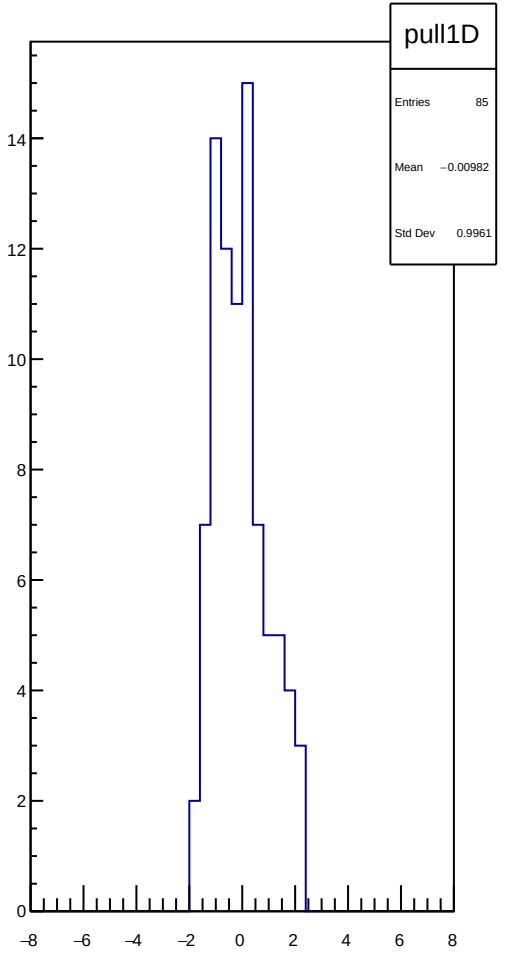

eigen_dit_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 782.6 / 84
p0 66.78 ± 0.05212
70
69
68
67
66
65
64
63
62
61

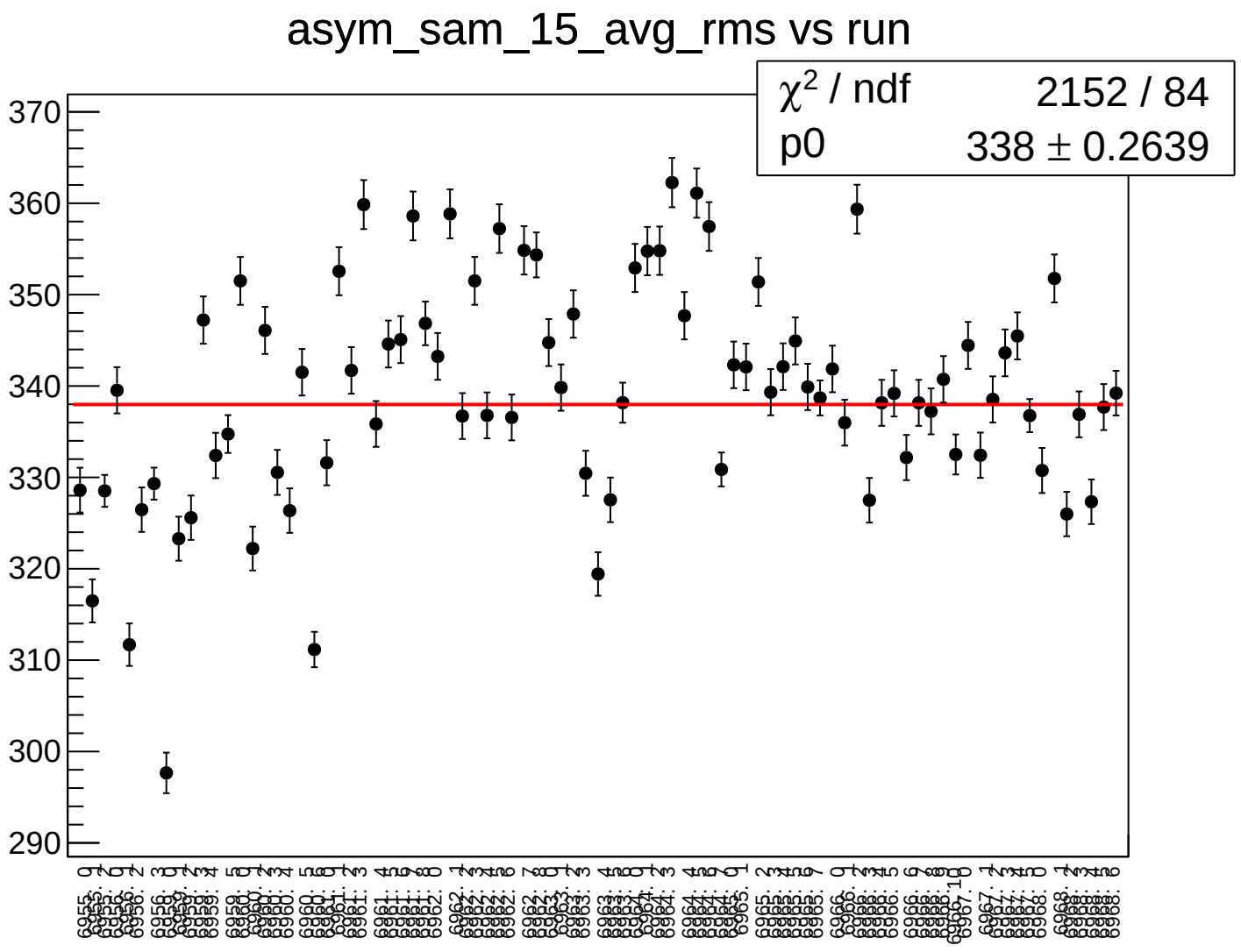

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.46 / 84
p0 −279.8 ± 377.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 530.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

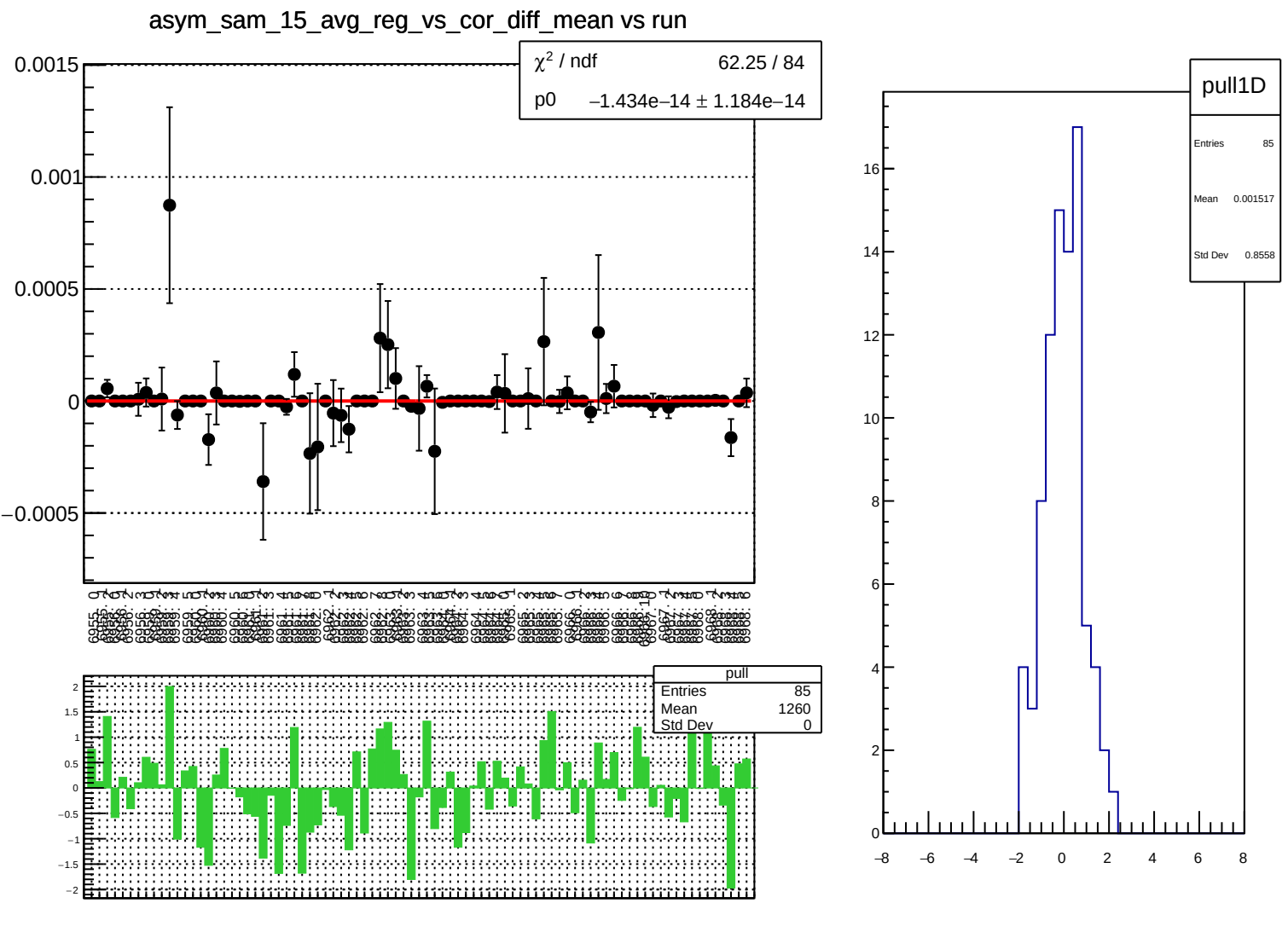

pull1D
Entries 85
Mean 0.007109
Std Dev 0.9668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

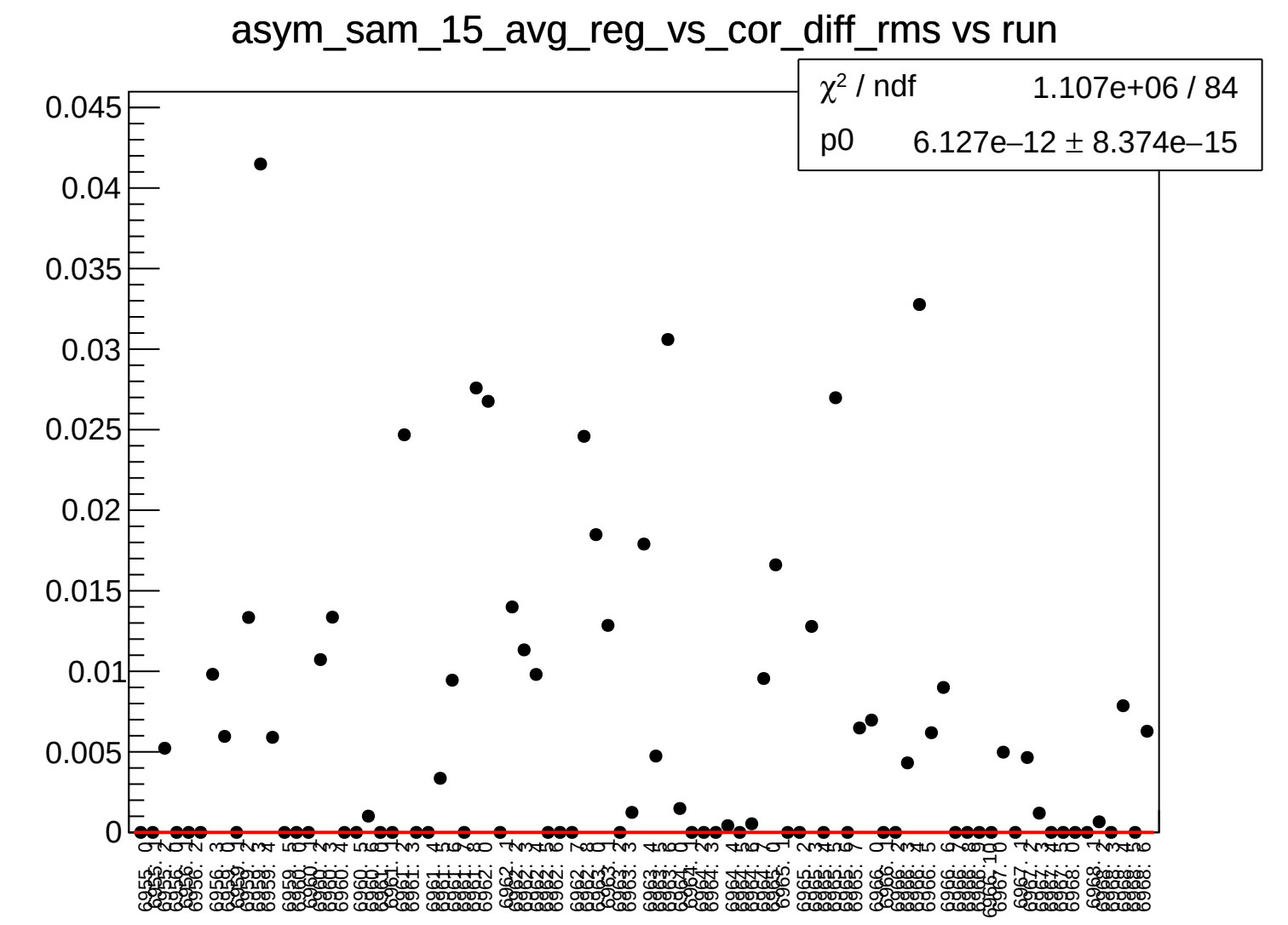

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1922 / 84
p0 342.1 ± 0.2671
370
360
350
340
330
320
310

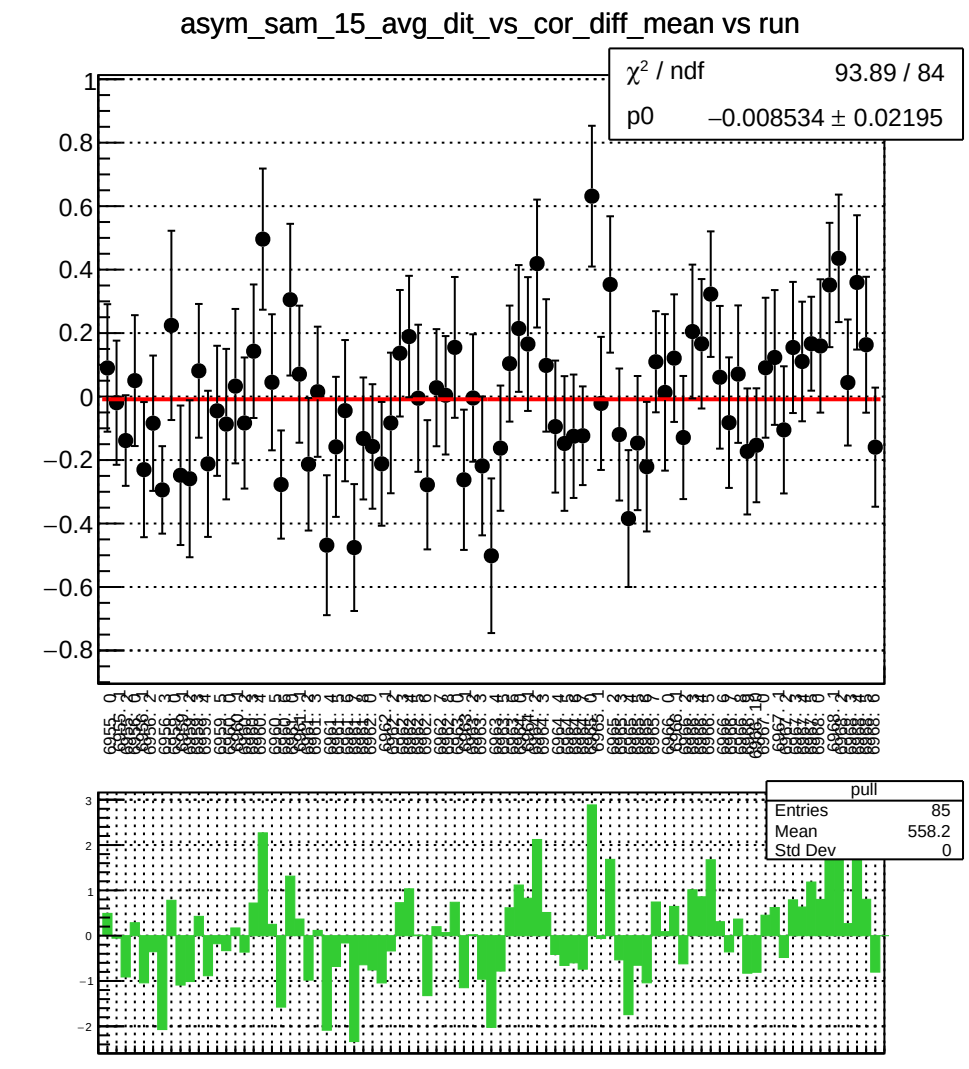

asym_sam_15_avg_mean vs run
χ² / ndf 84.35 / 84
p0 306.4 ± 373.2
pull
Entries 85
Mean 335
Std Dev 0

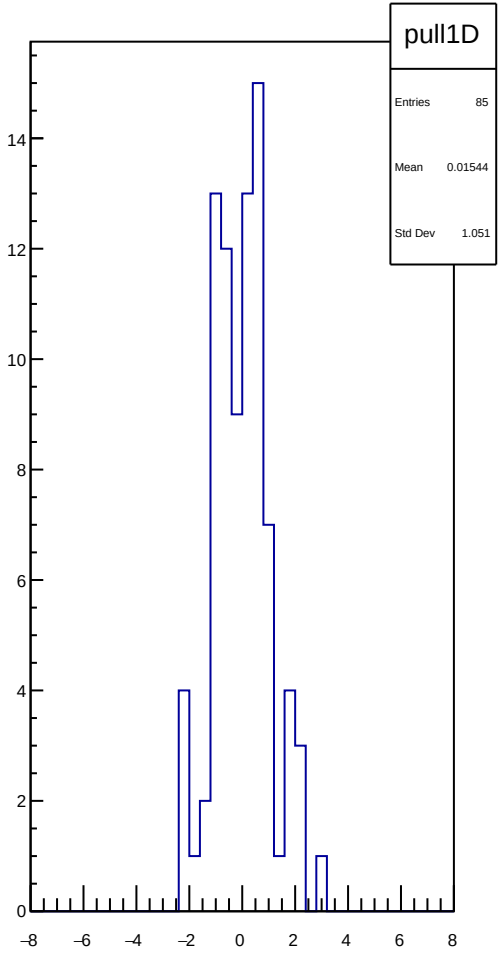

pull1D
Entries 85
Mean −0.00982
Std Dev 0.9961

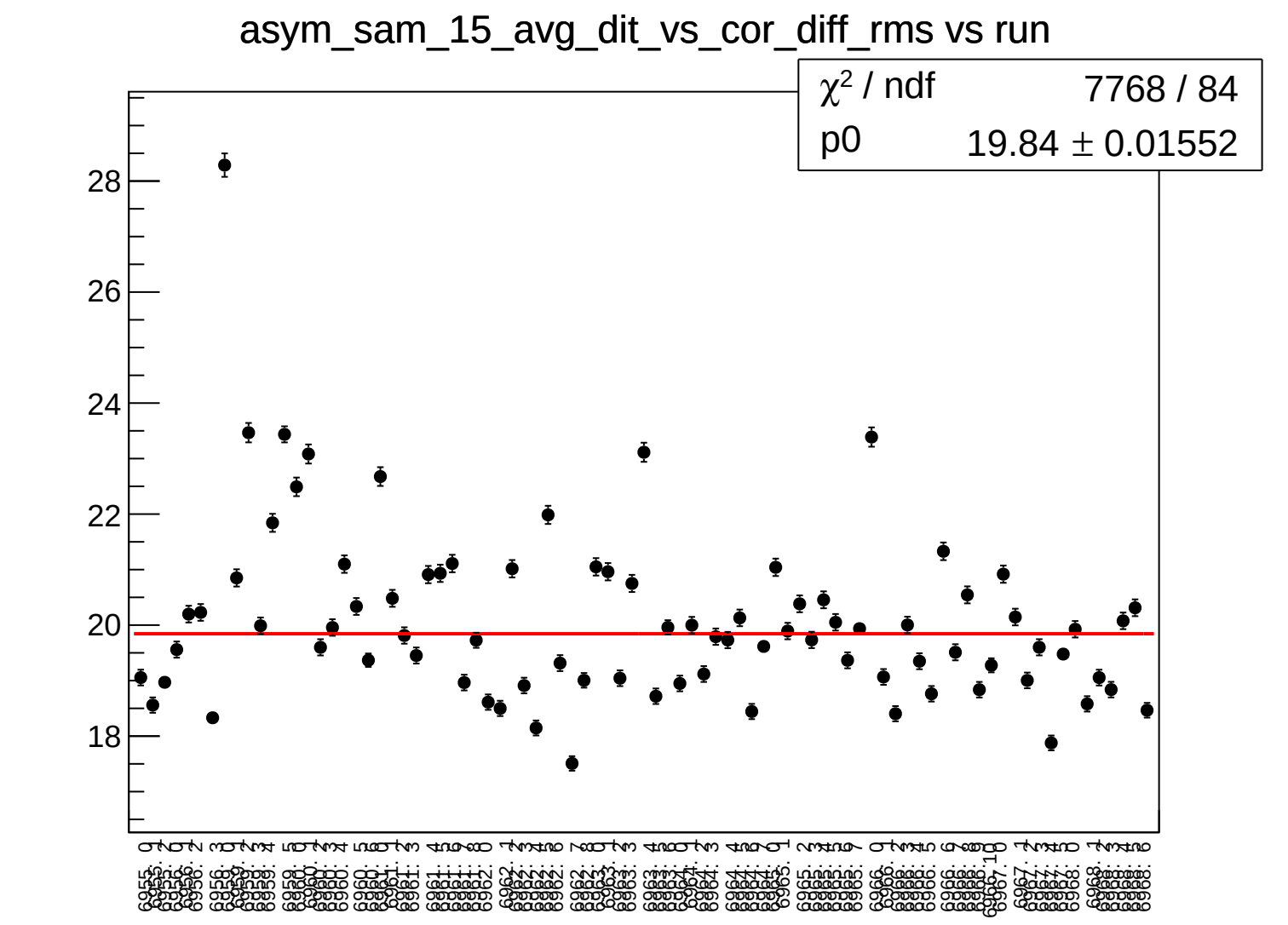

asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 2152 / 84
p0 338 ± 0.2639
370
360
350
340
330
320
310
300
290

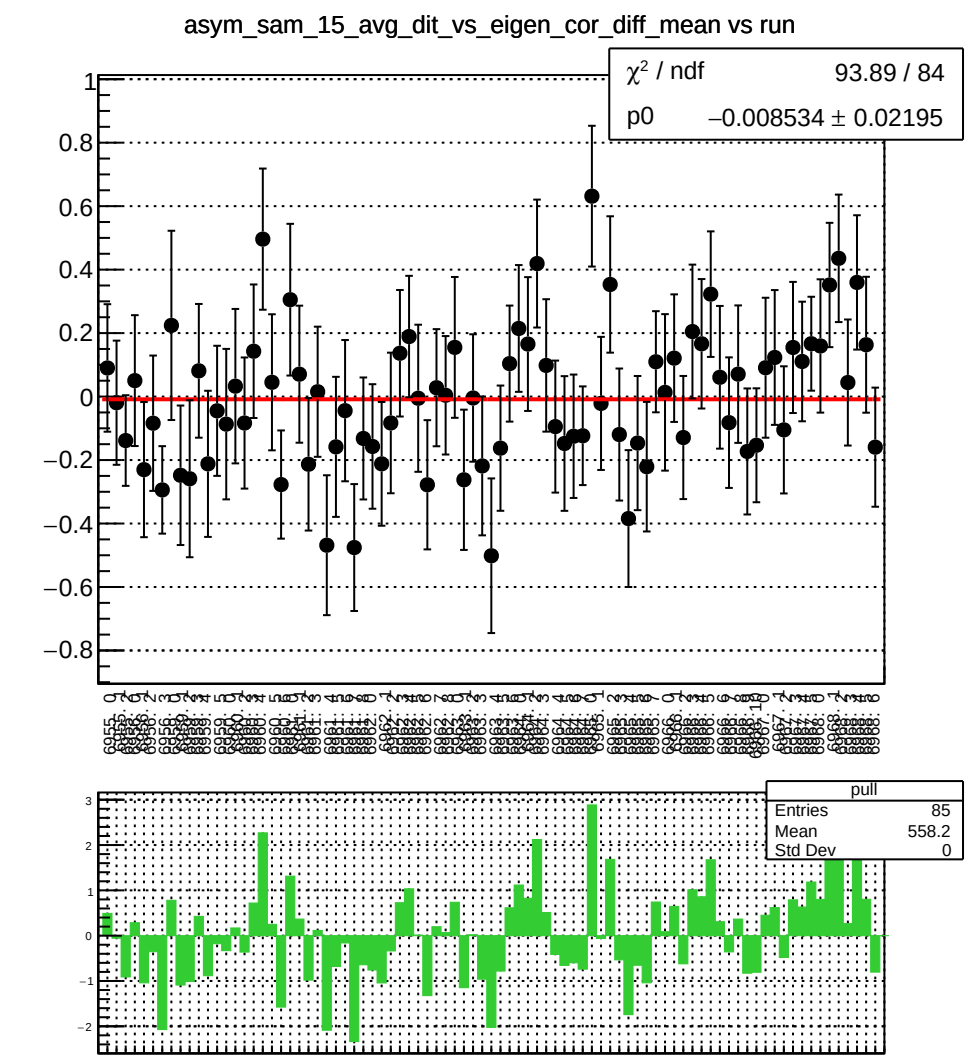

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.25 / 84
p0 −1.434e−14 ± 1.184e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 85
Mean 1260
Std Dev 0
pull1D
Entries 85
Mean 0.001517
Std Dev 0.8558

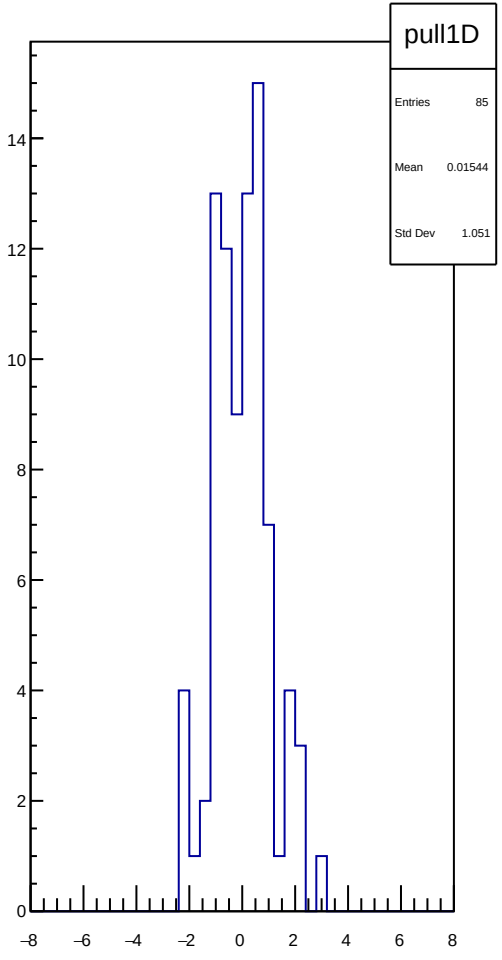

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.107e+06 / 84
p0 6.127e−12 ± 8.374e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

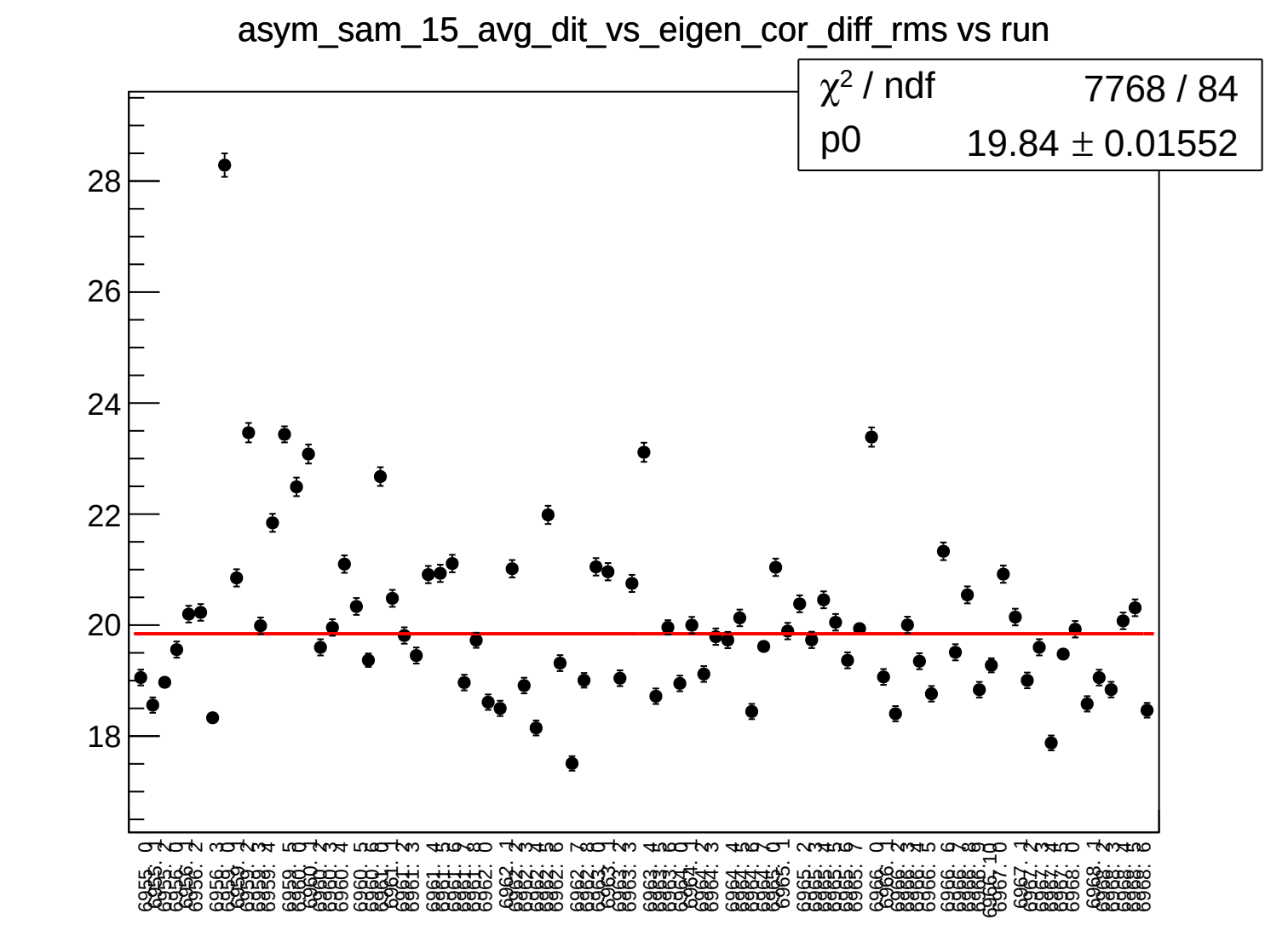

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.89 / 84
p0 −0.008534 ± 0.02195
pull
Entries 85
Mean 558.2
Std Dev 0

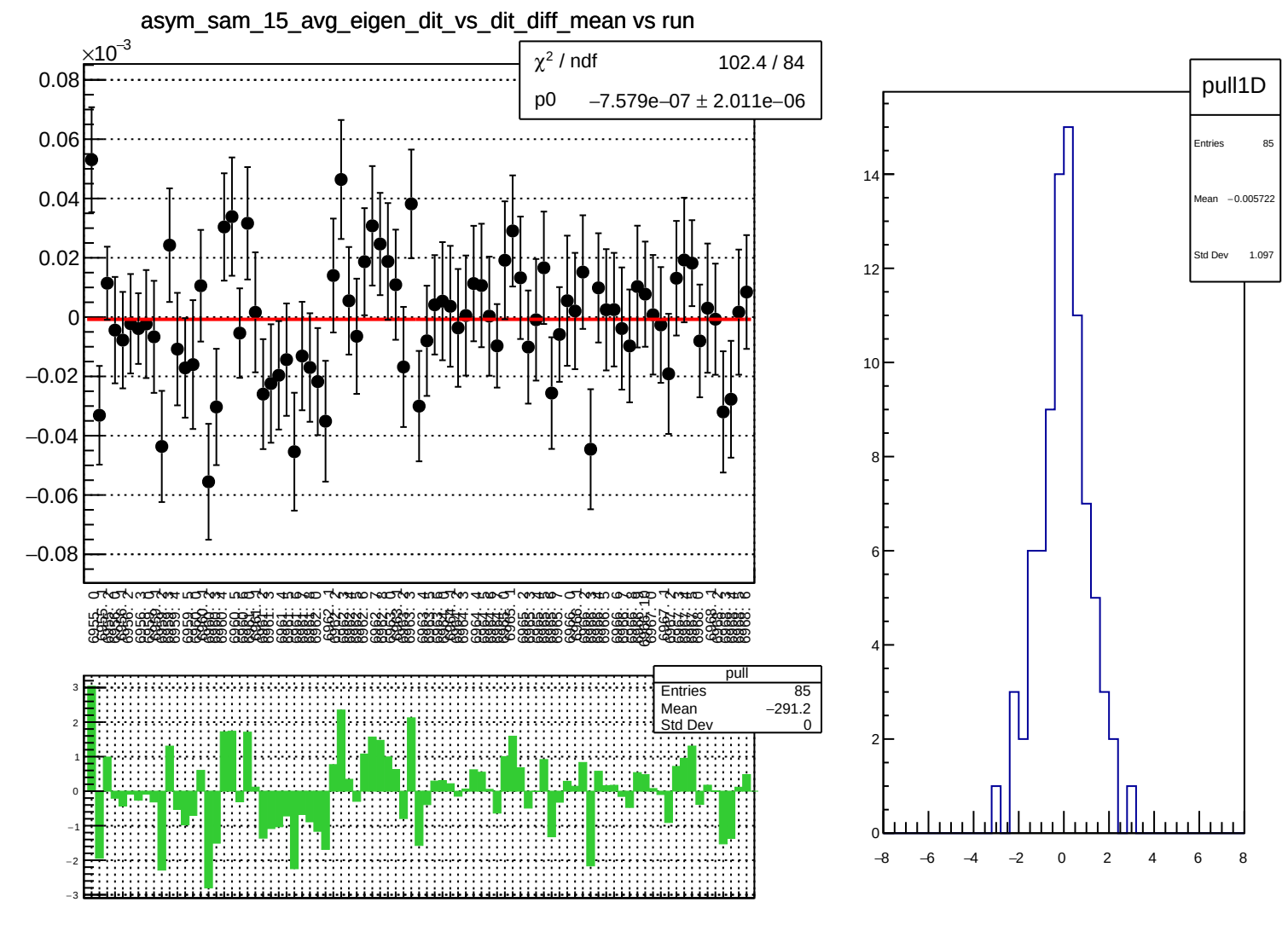

pull1D
Entries 85
Mean 0.01544
Std Dev 1.051

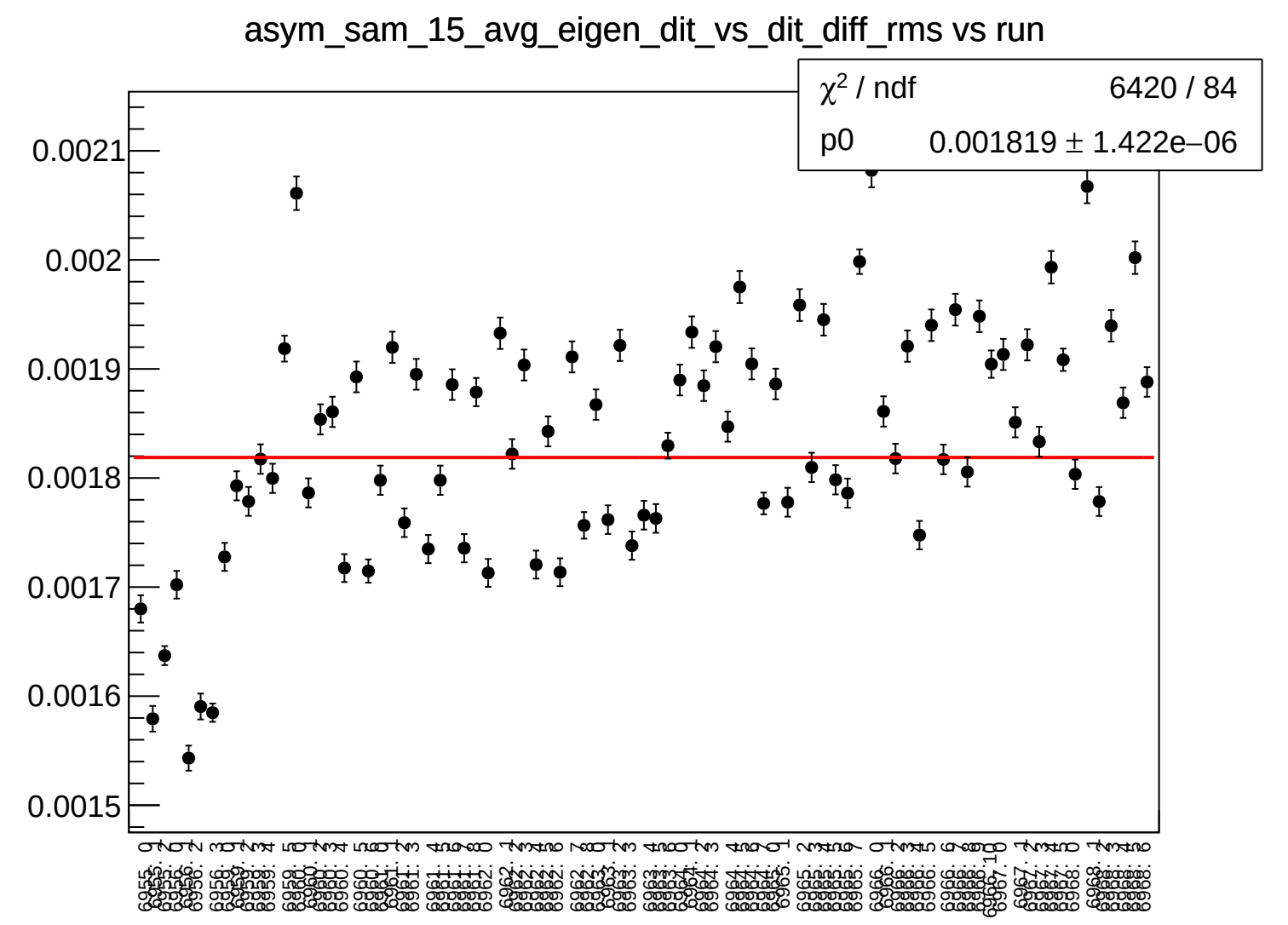

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7768 / 84
p0 19.84 ± 0.01552
28
26
24
22
20
18

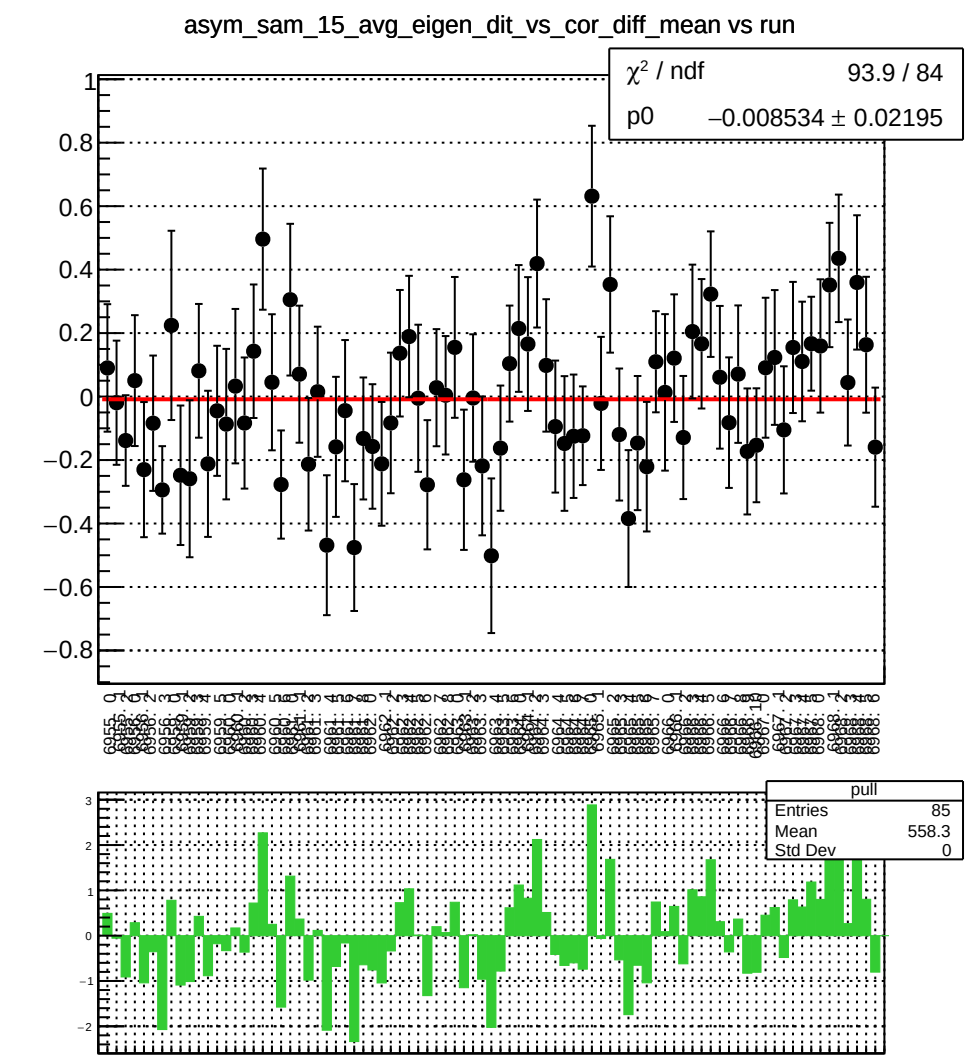

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.89 / 84
p0 −0.008534 ± 0.02195
pull
Entries 85
Mean 558.2
Std Dev 0

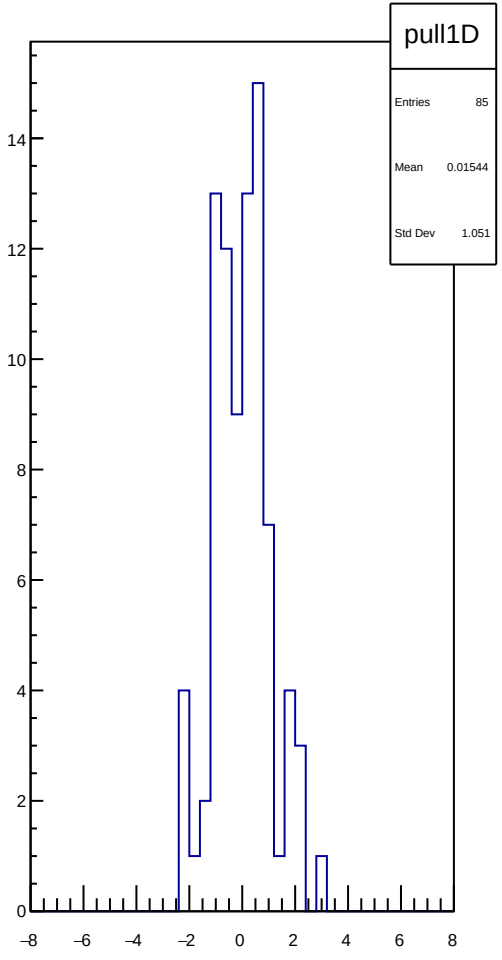

pull1D
Entries 85
Mean 0.01544
Std Dev 1.051

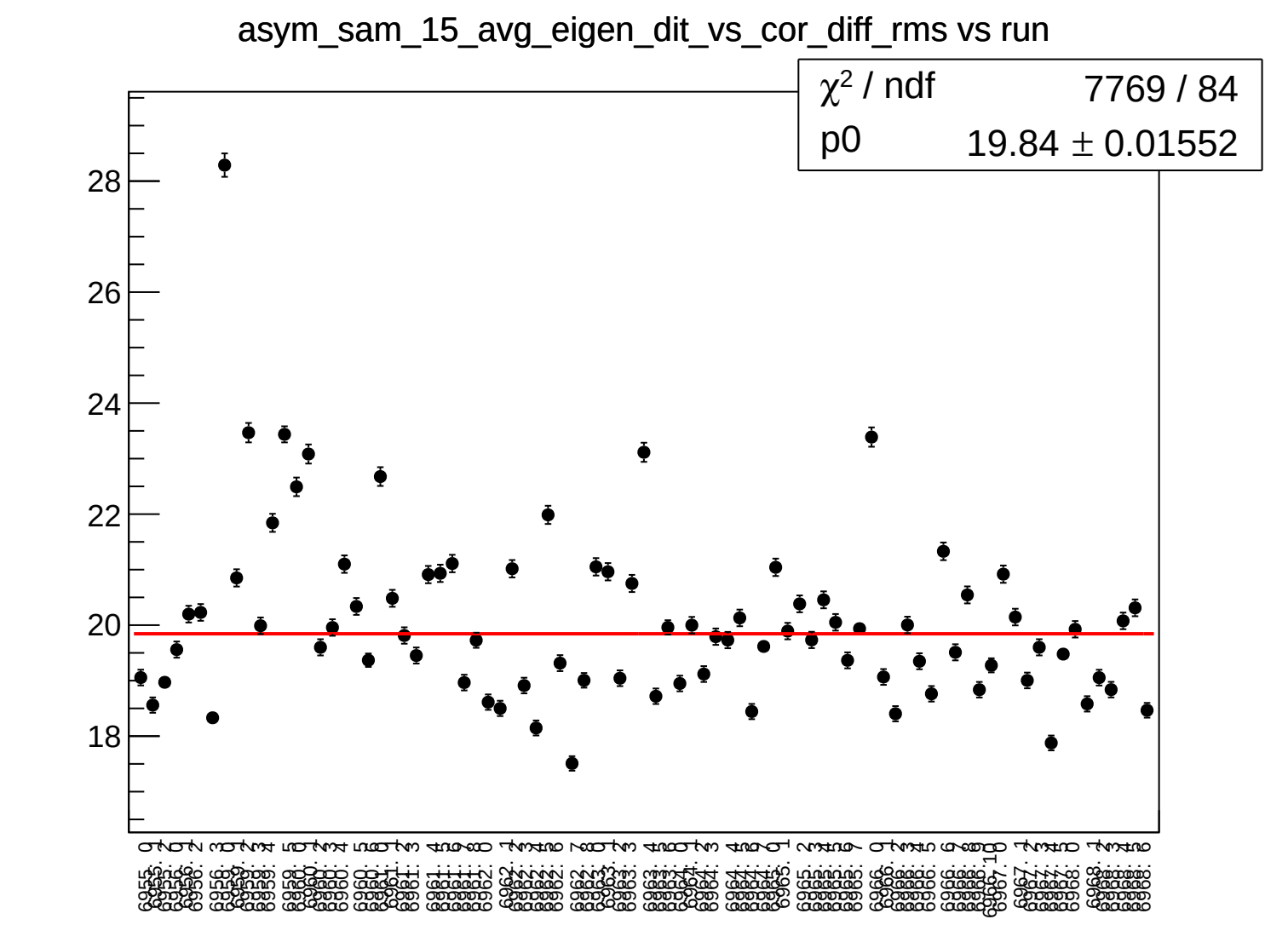

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7768 / 84
p0 19.84 ± 0.01552
28
26
24
22
20
18

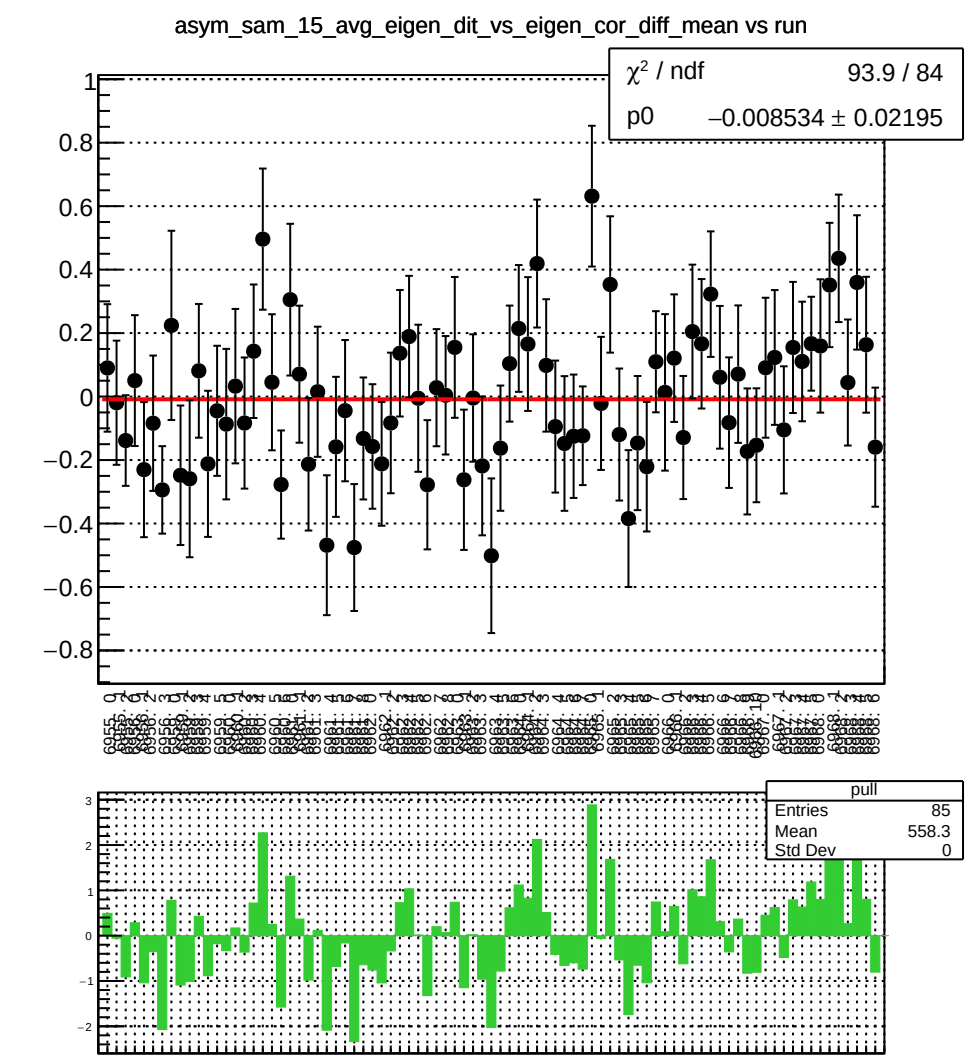

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.4 / 84
p0 −7.579e−07 ± 2.011e−06
pull
Entries 85
Mean −291.2
Std Dev 0
pull1D
Entries 85
Mean −0.005722
Std Dev 1.097

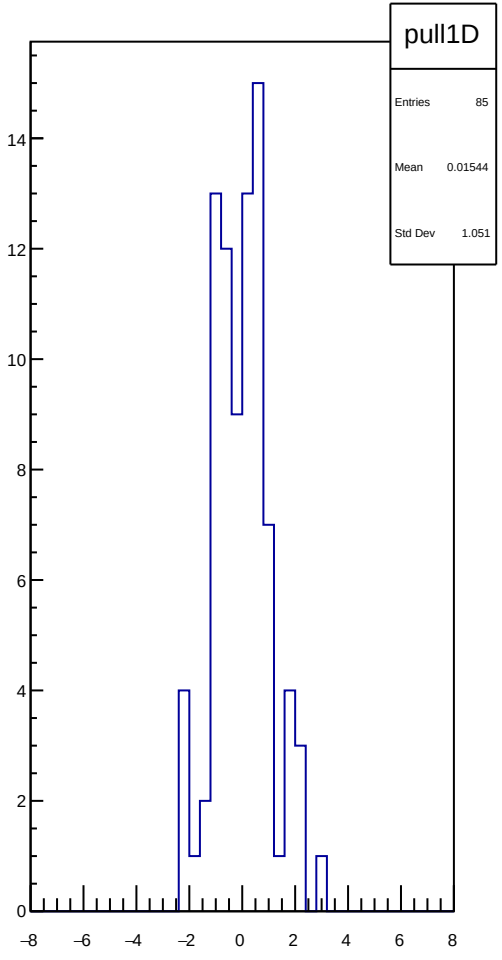

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6420 / 84
p0 0.001819 ± 1.422e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

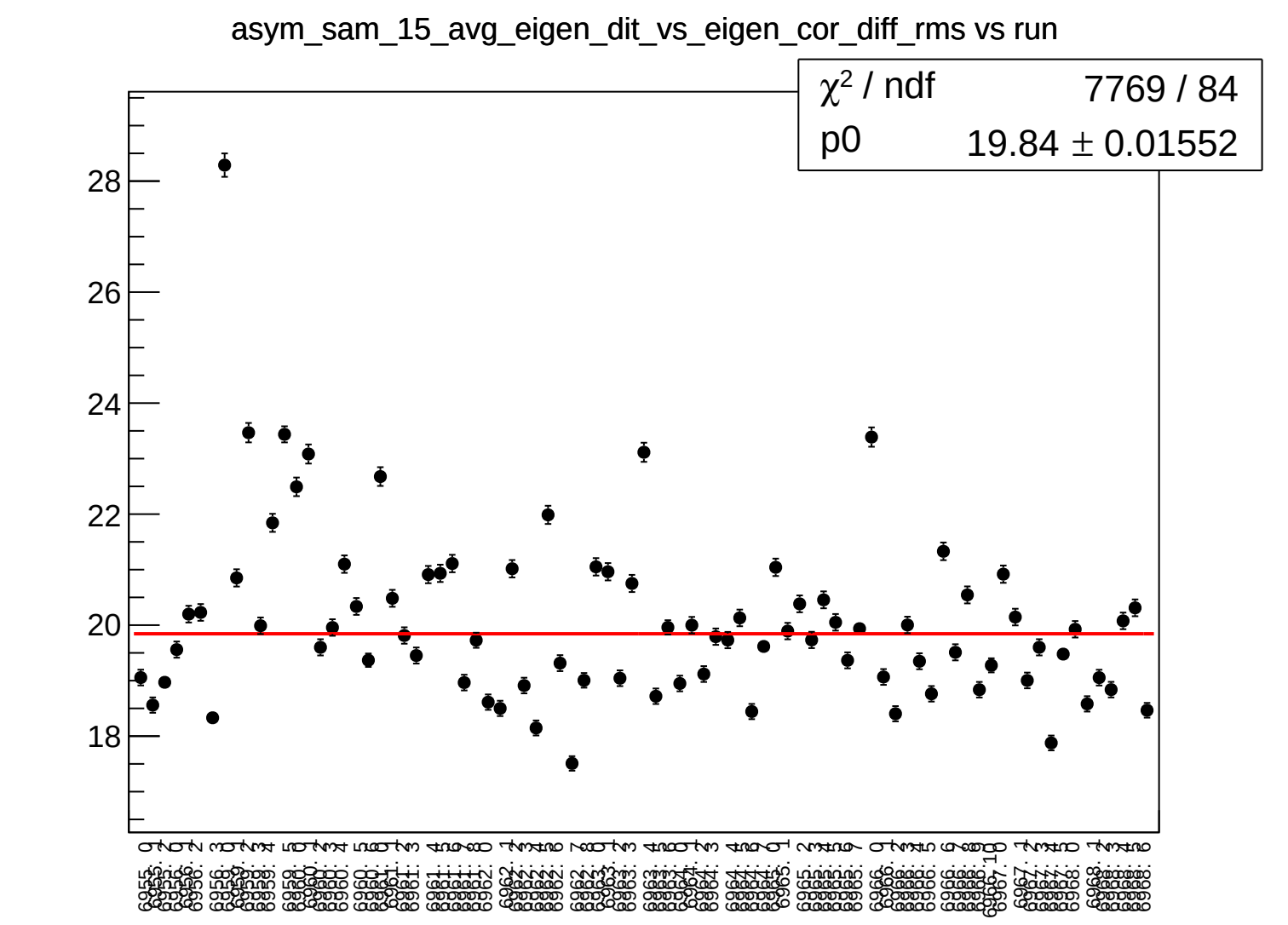

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.9 / 84
p0 −0.008534 ± 0.02195
pull
Entries 85
Mean 558.3
Std Dev 0

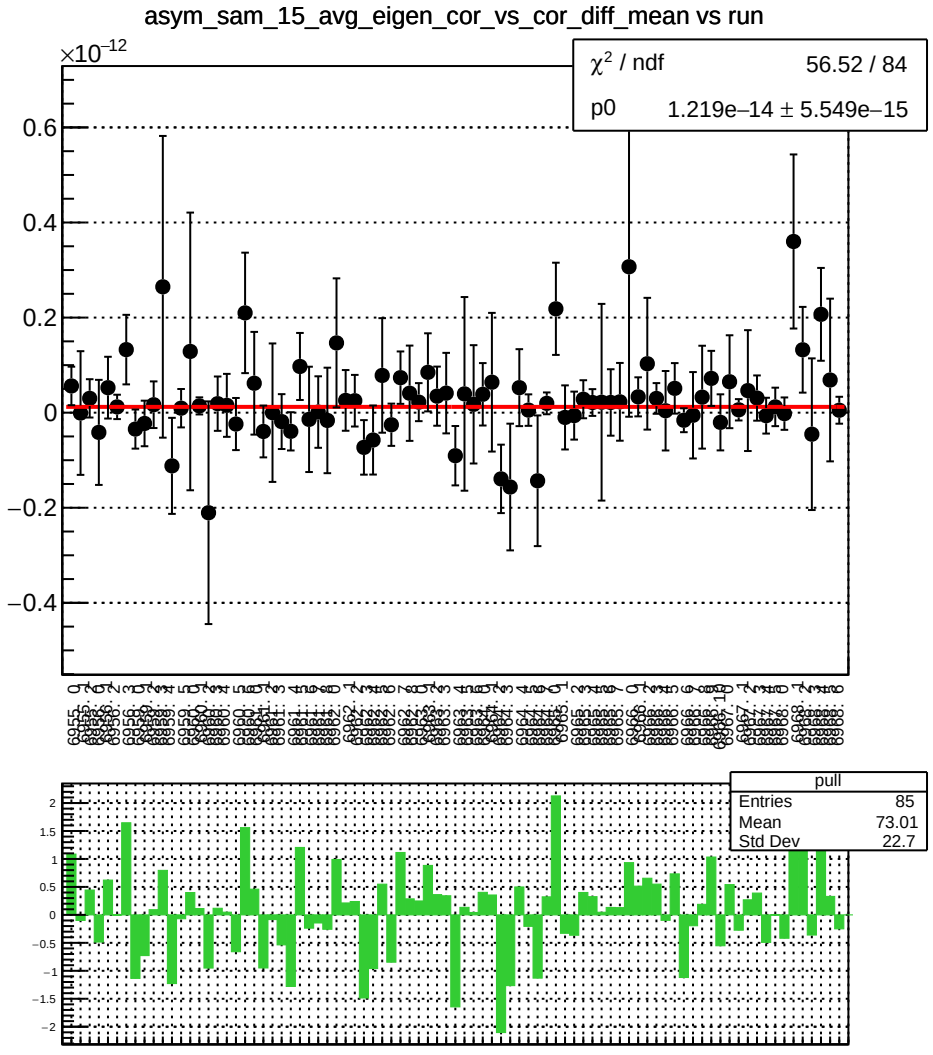

pull1D
Entries 85
Mean 0.01544
Std Dev 1.051

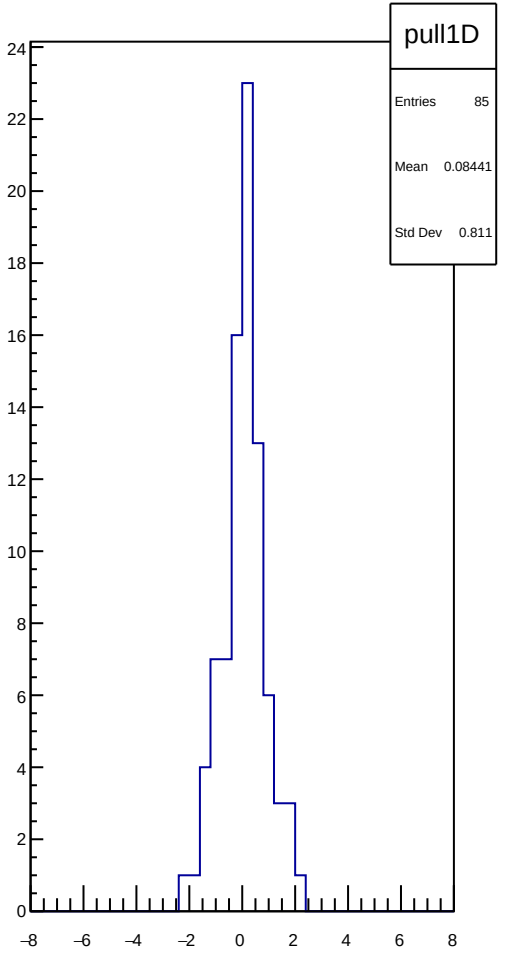

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7769 / 84
p0 19.84 ± 0.01552
28
26
24
22
20
18

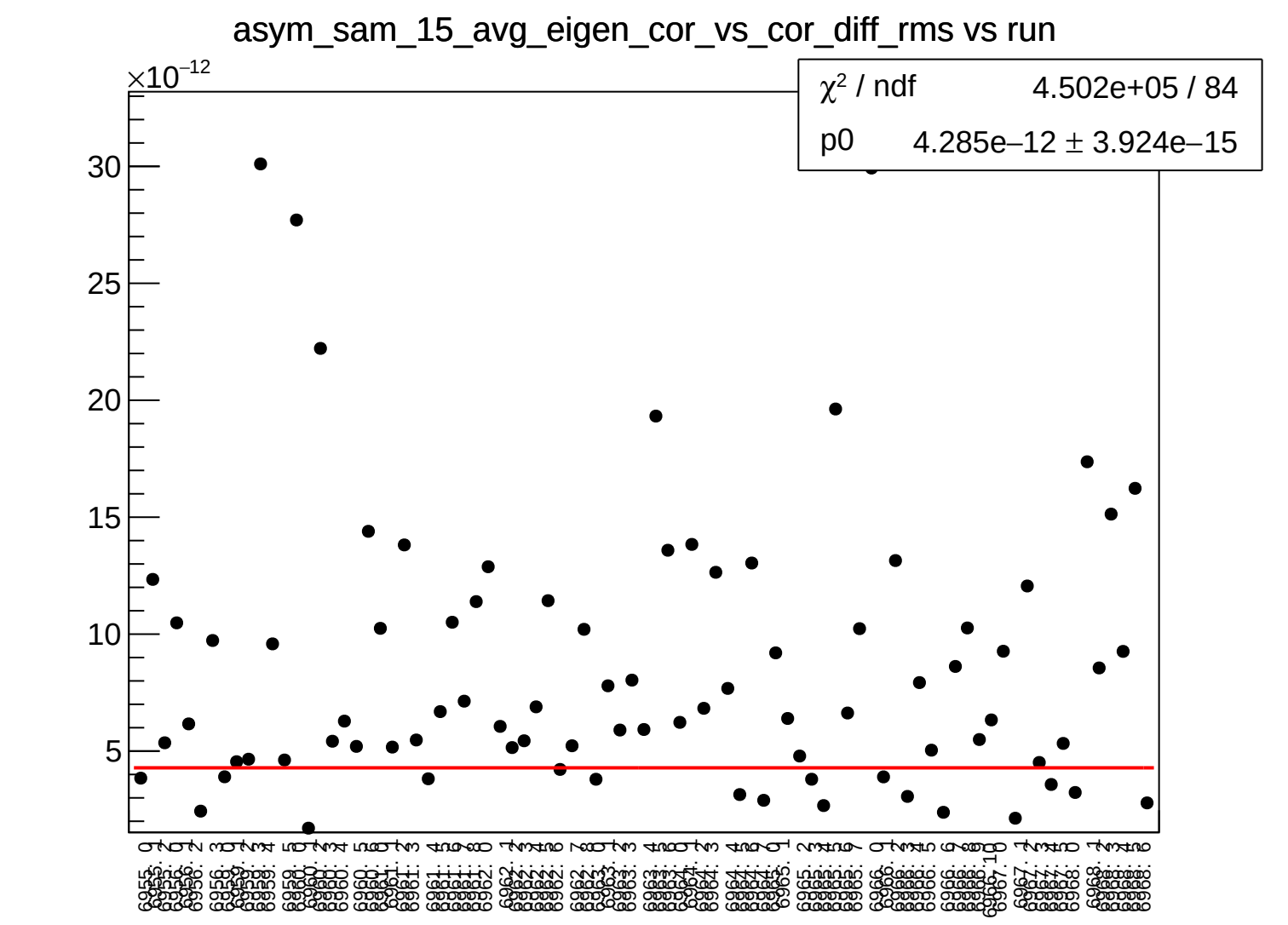

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.9 / 84
p0 −0.008534 ± 0.02195
pull
Entries 85
Mean 558.3
Std Dev 0

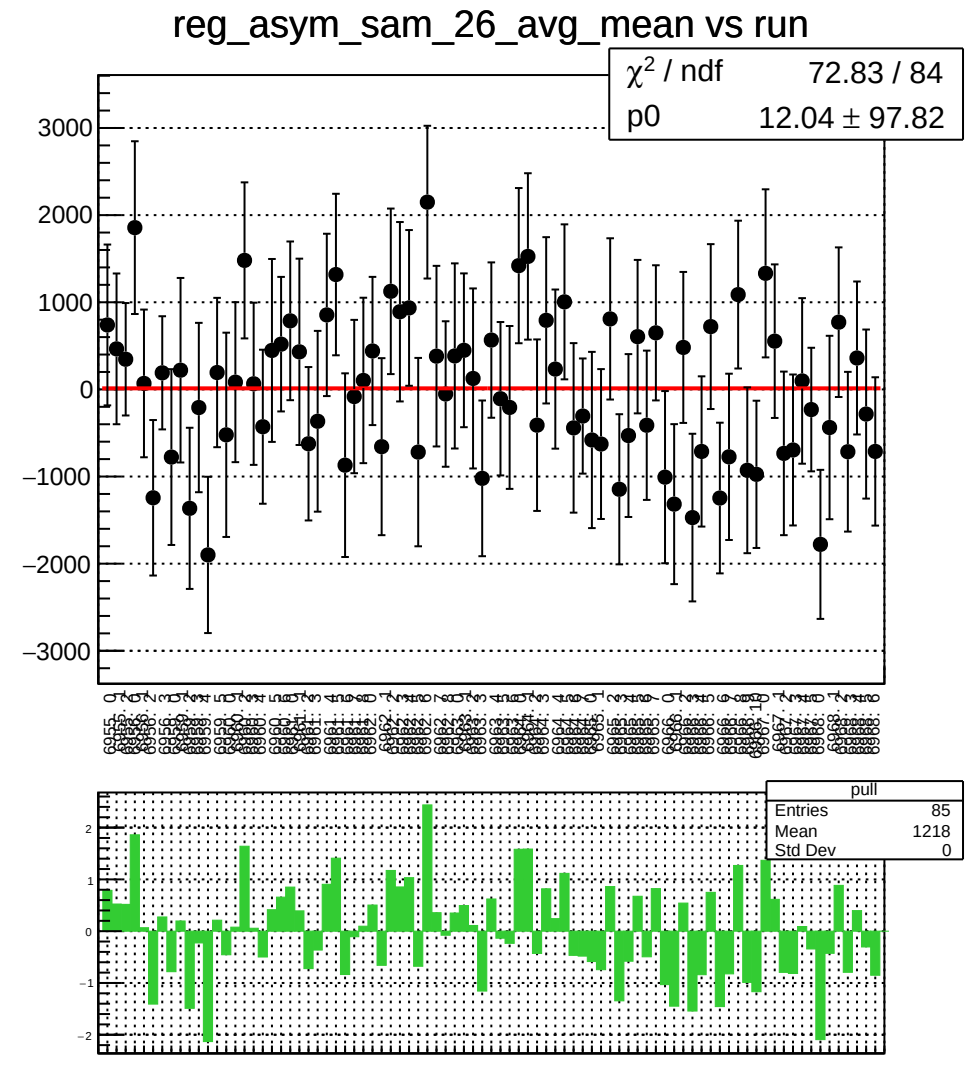

pull1D
Entries 85
Mean 0.01544
Std Dev 1.051

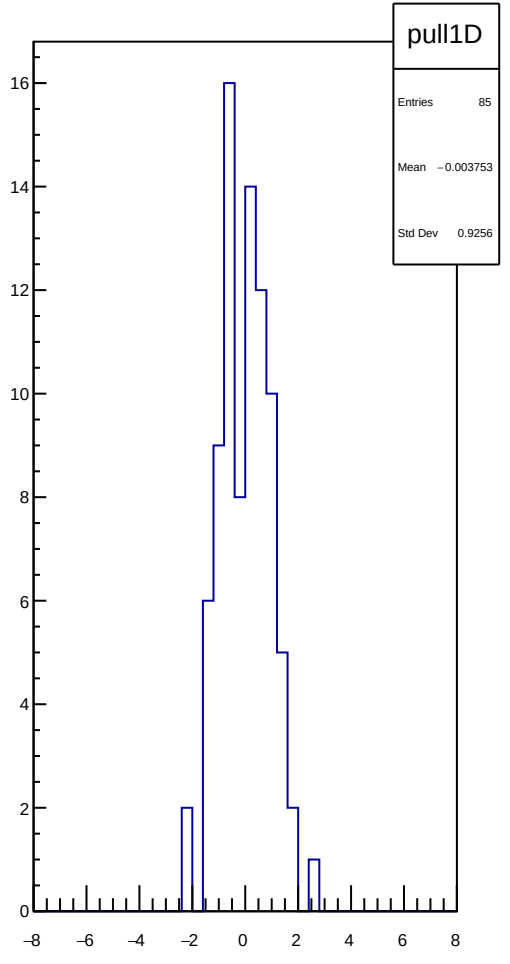

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7769 / 84
p0 19.84 ± 0.01552
28
26
24
22
20
18

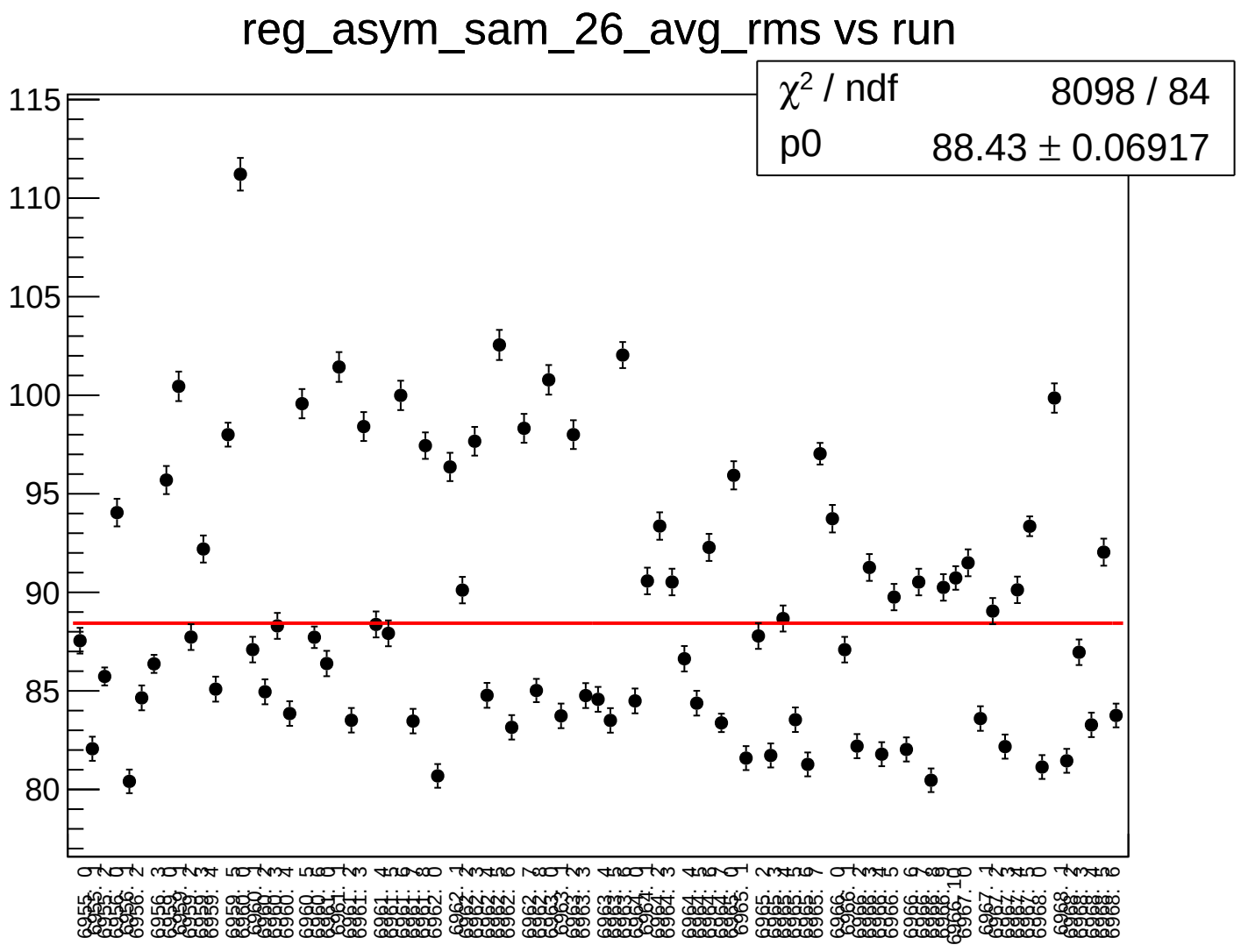

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.52 / 84
p0 1.219e−14 ± 5.549e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 85
Mean 73.01
Std Dev 22.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

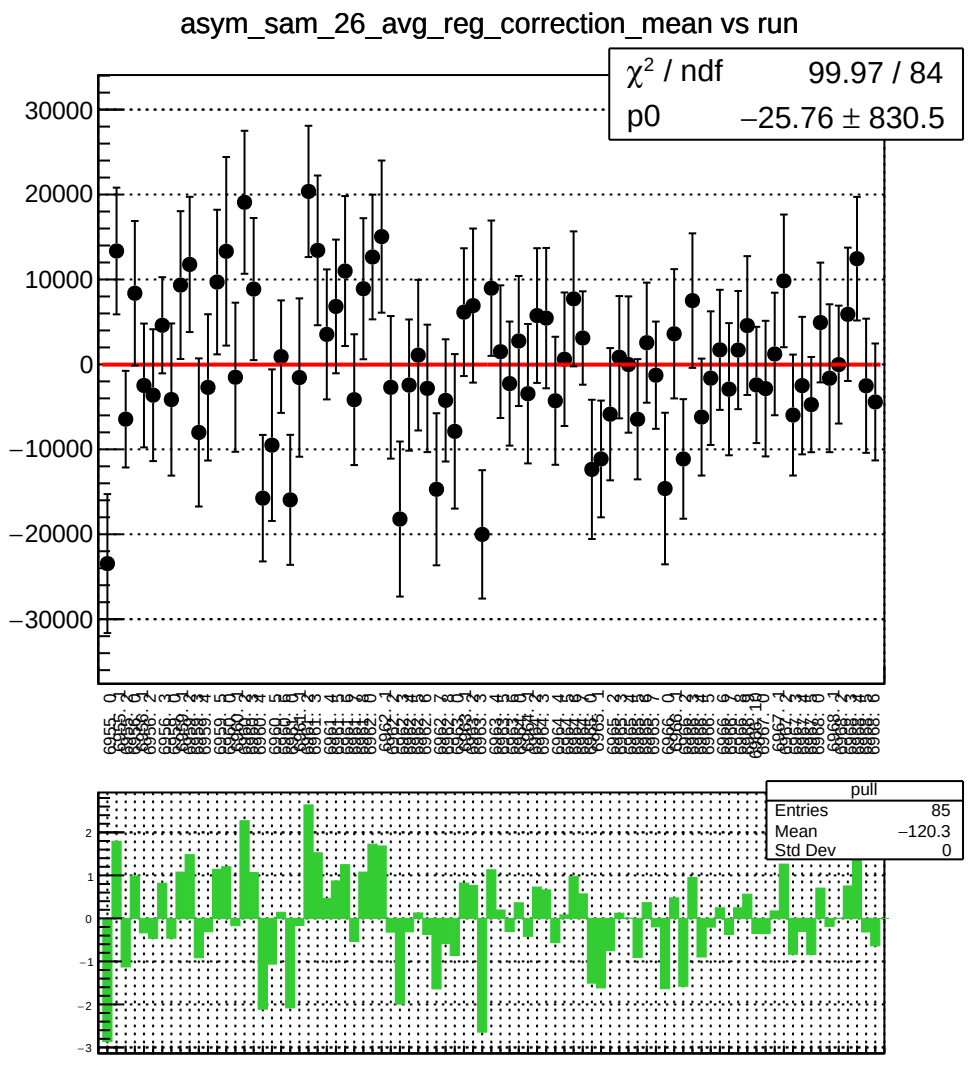

pull1D
Entries 85
Mean 0.08441
Std Dev 0.811
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

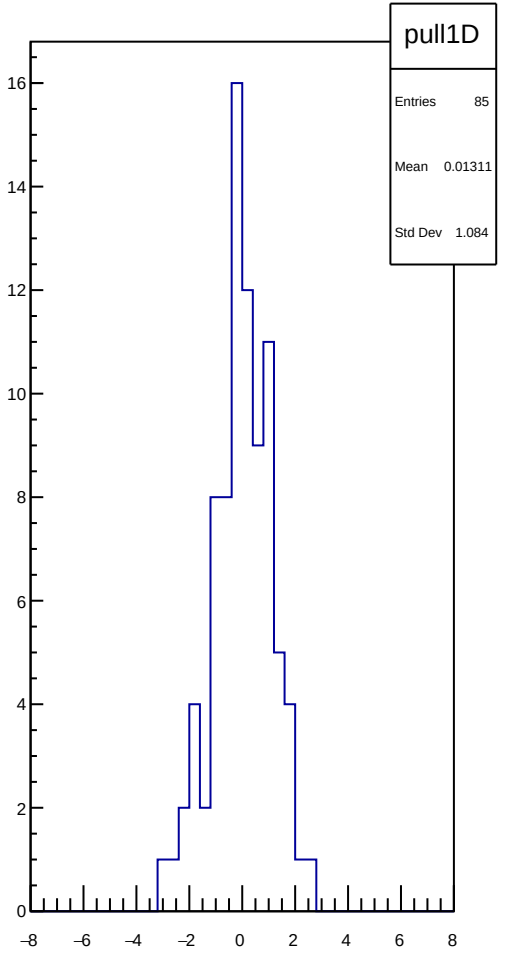

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.502e+05 / 84
p0 4.285e−12 ± 3.924e−15
30
25
20
15
10
5

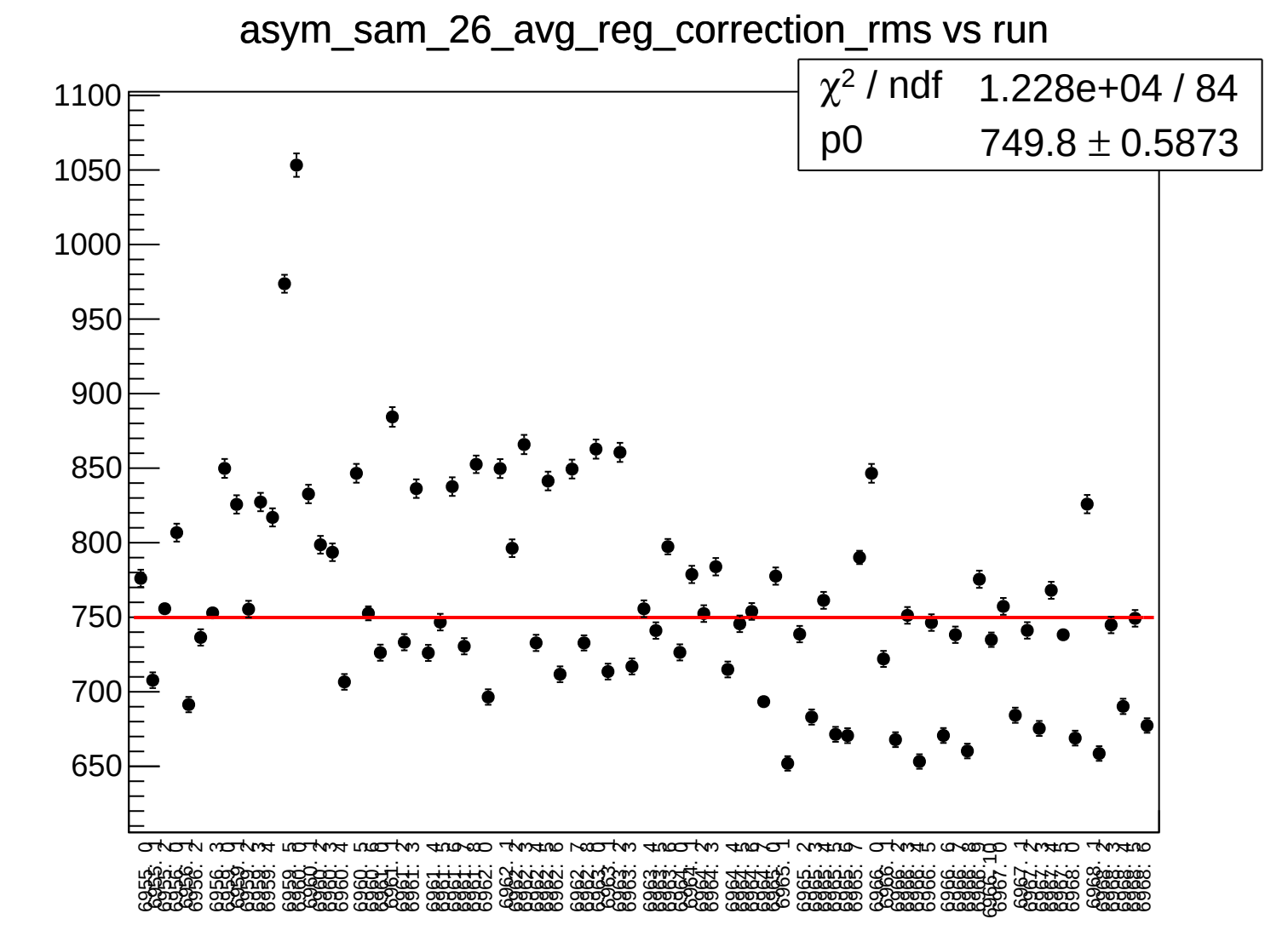

reg_asym_sam_26_avg_mean vs run
χ² / ndf 72.83 / 84
p0 12.04 ± 97.82
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 1218
Std Dev 0
2
1
0
−1
−2

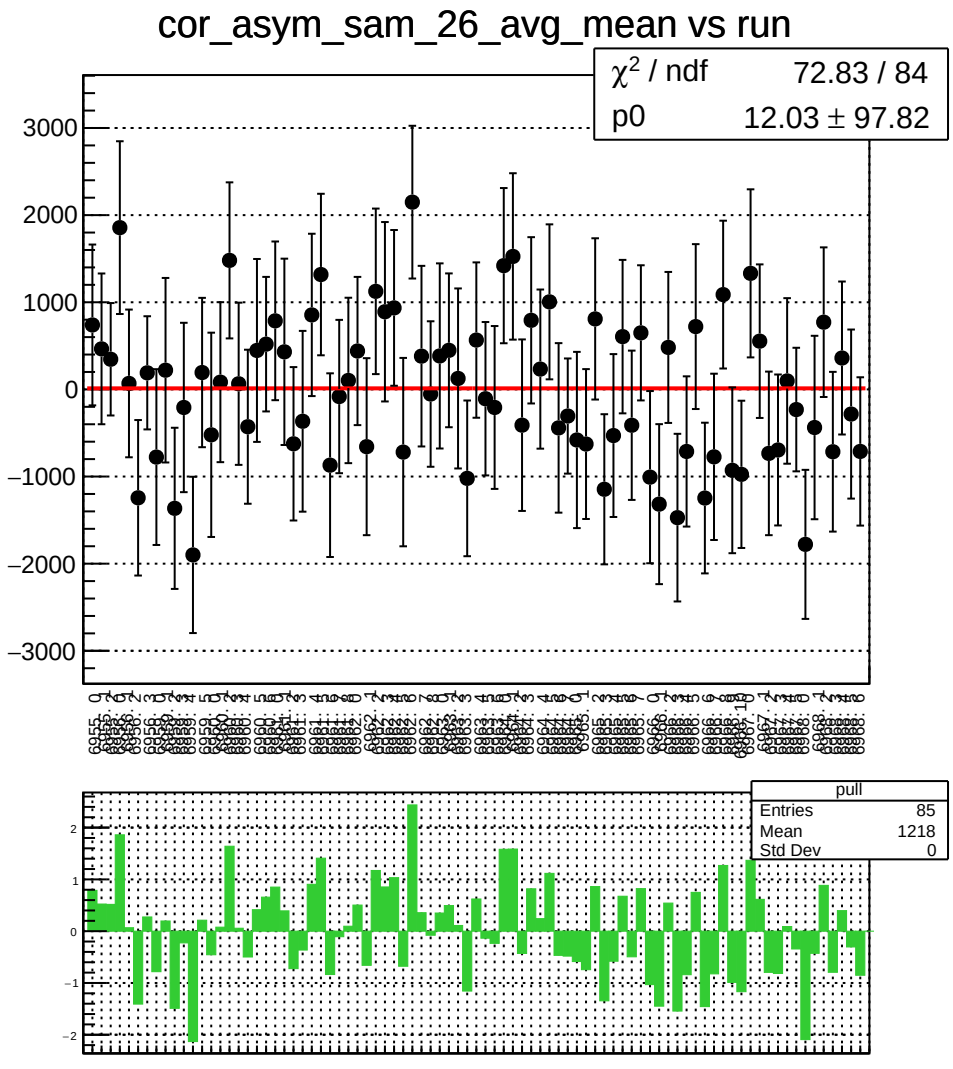

pull1D
Entries 85
Mean −0.003753
Std Dev 0.9256
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

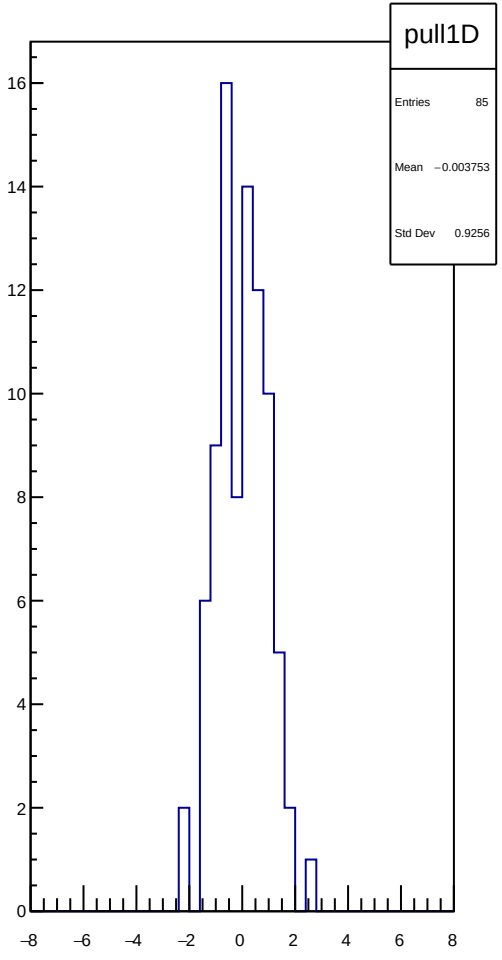

reg_asym_sam_26_avg_rms vs run
χ² / ndf 8098 / 84
p0 88.43 ± 0.06917
115
110
105
100
95
90
85
80

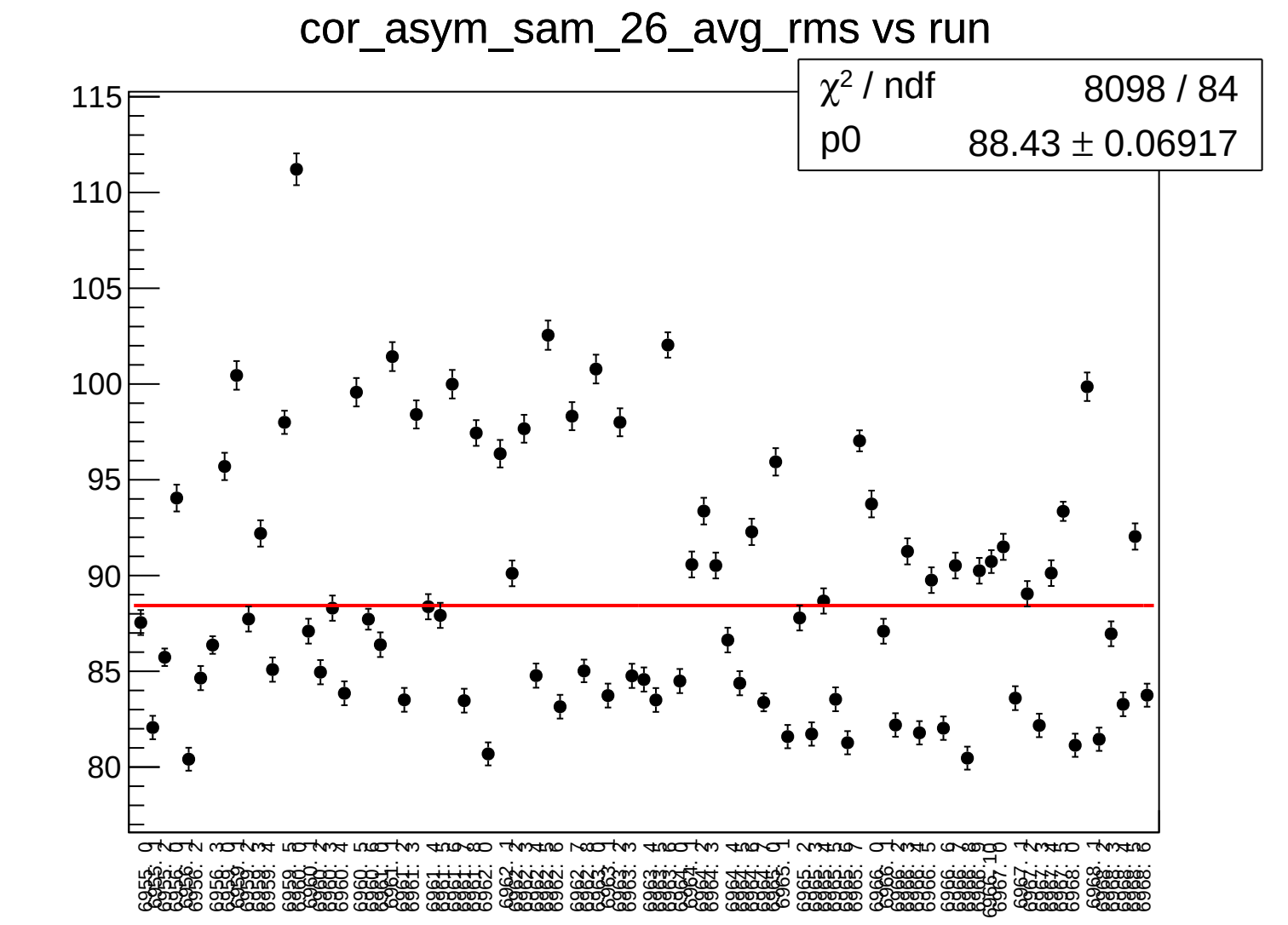

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 99.97 / 84
p0 −25.76 ± 830.5
pull
Entries 85
Mean −120.3
Std Dev 0

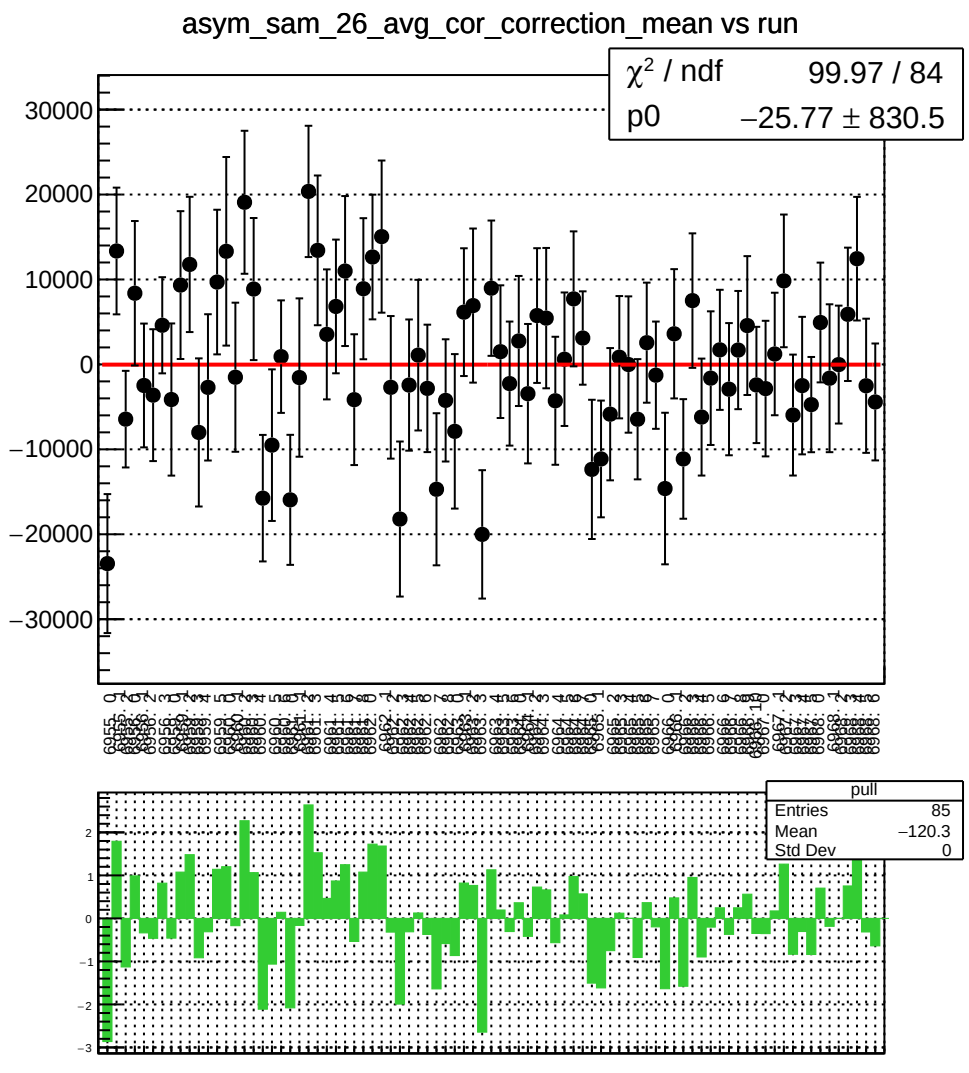

pull1D
Entries 85
Mean 0.01311
Std Dev 1.084

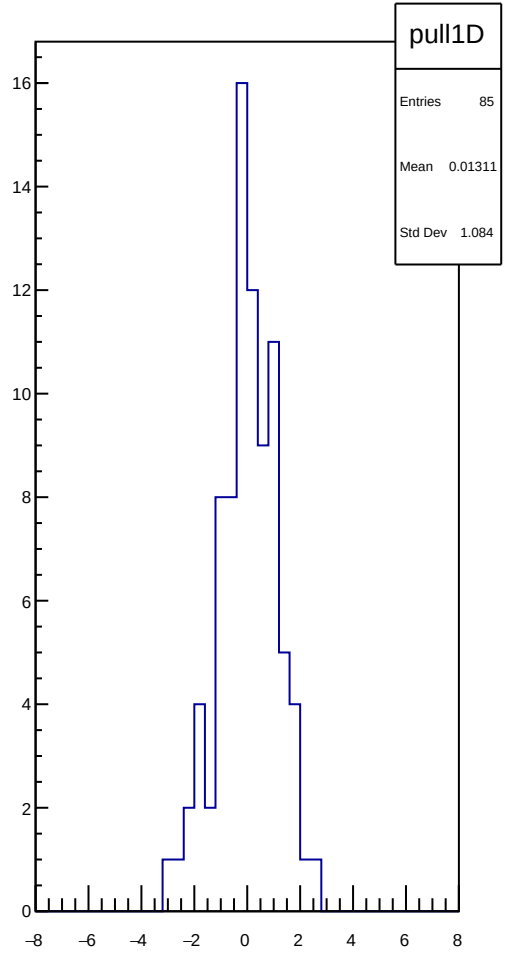

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.228e+04 / 84
p0 749.8 ± 0.5873
1100
1050
1000
950
900
850
800
750
700
650

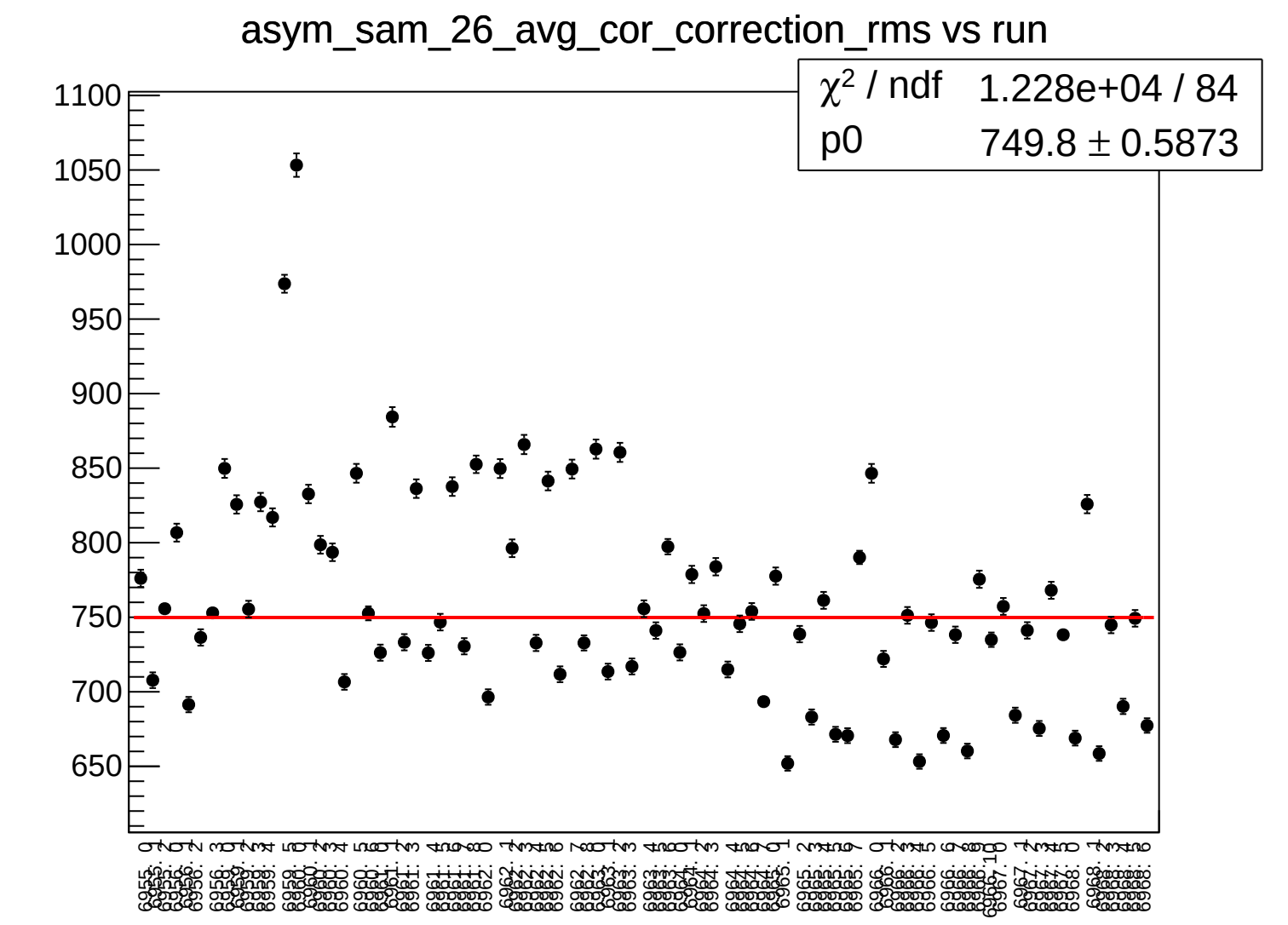

cor_asym_sam_26_avg_mean vs run
χ² / ndf 72.83 / 84
p0 12.03 ± 97.82
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 1218
Std Dev 0
2
1
0
−1
−2

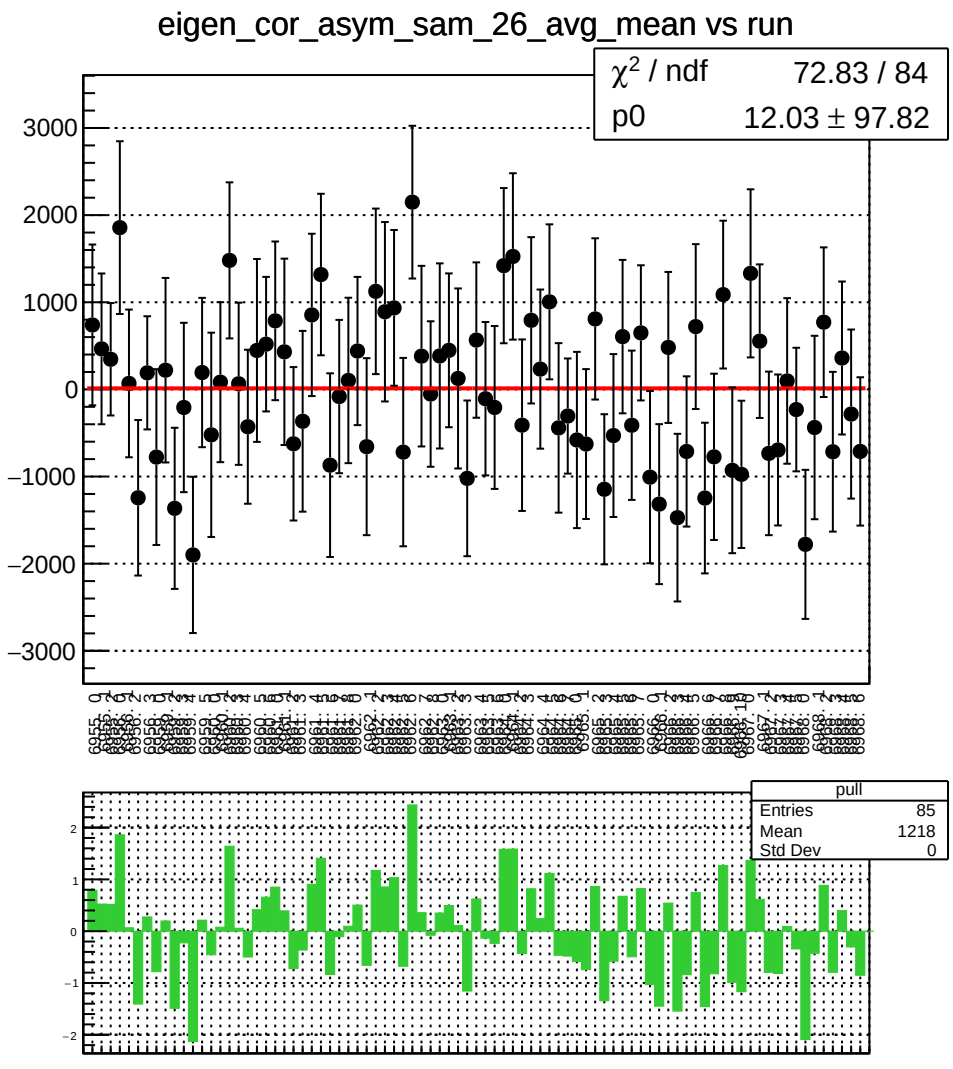

pull1D
Entries 85
Mean −0.003753
Std Dev 0.9256
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

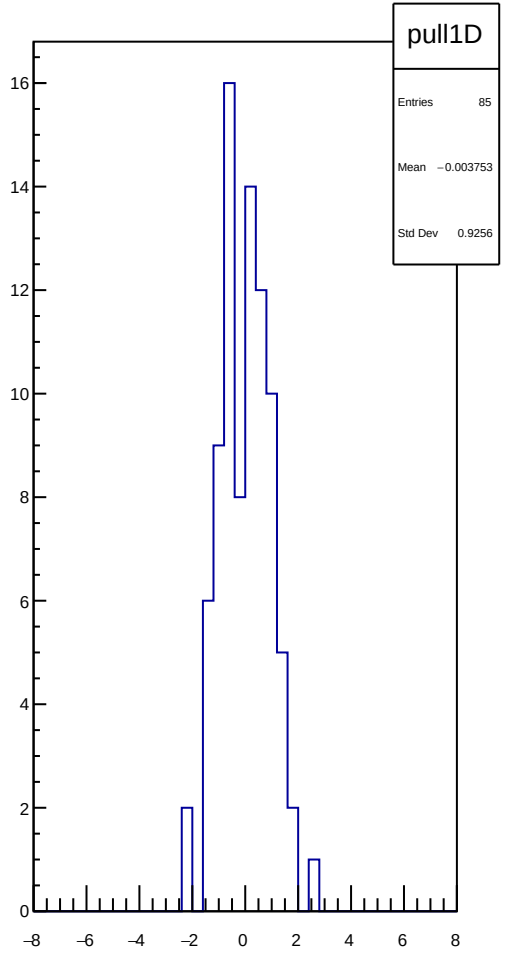

cor_asym_sam_26_avg_rms vs run
χ² / ndf 8098 / 84
p0 88.43 ± 0.06917
115
110
105
100
95
90
85
80

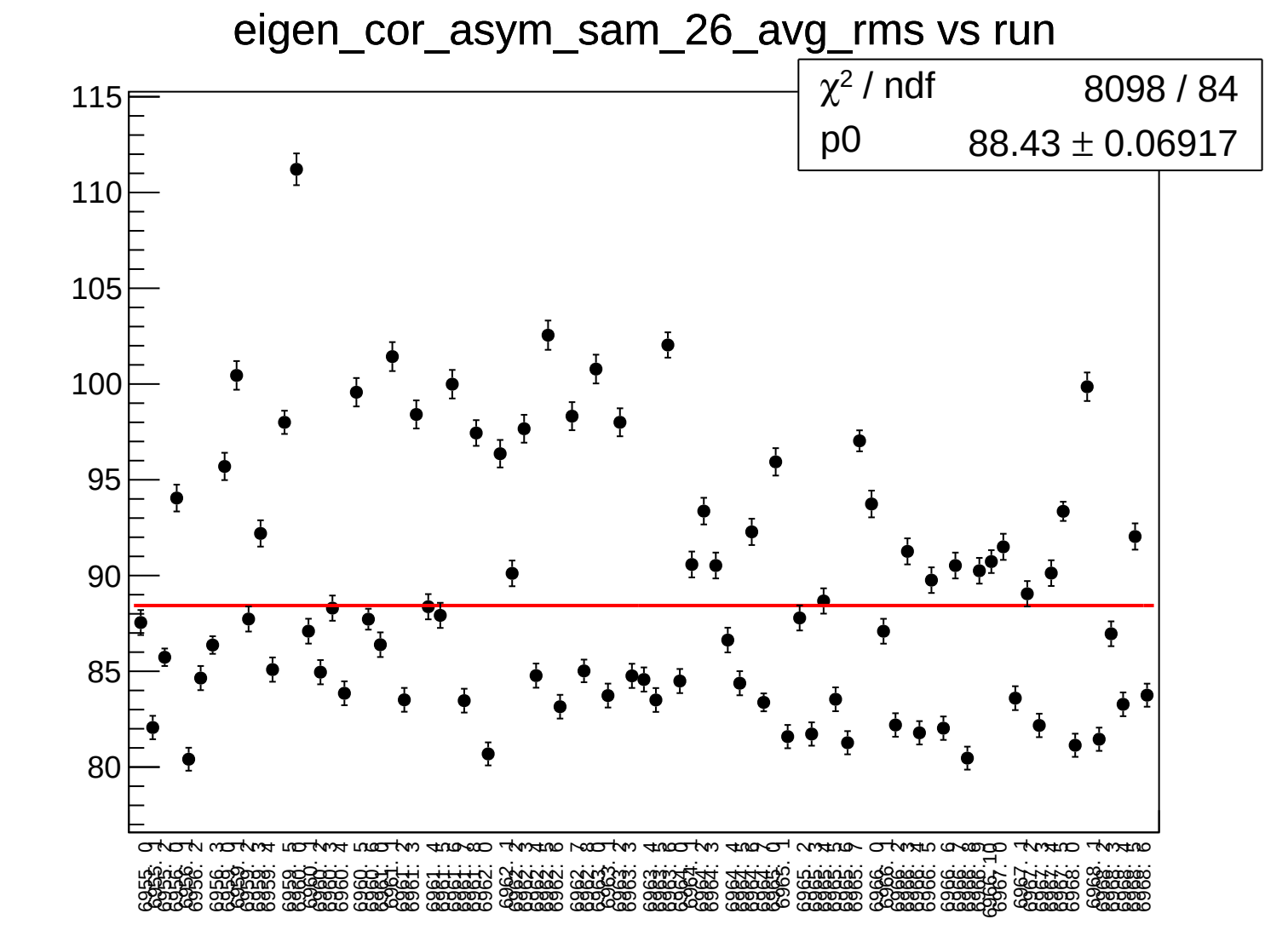

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 99.97 / 84
p0 −25.77 ± 830.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −120.3
Std Dev 0
2
1
0
−1
−2
−3

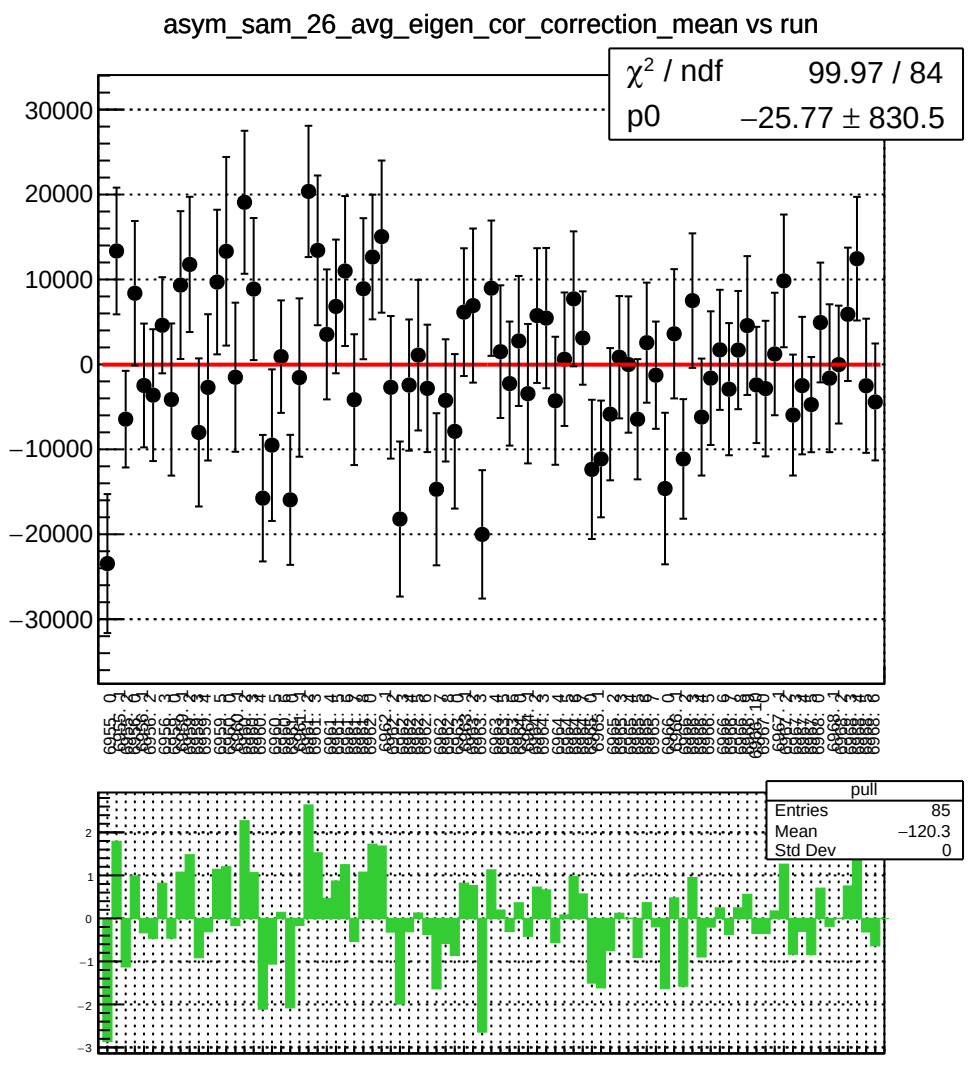

pull1D
Entries 85
Mean 0.01311
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

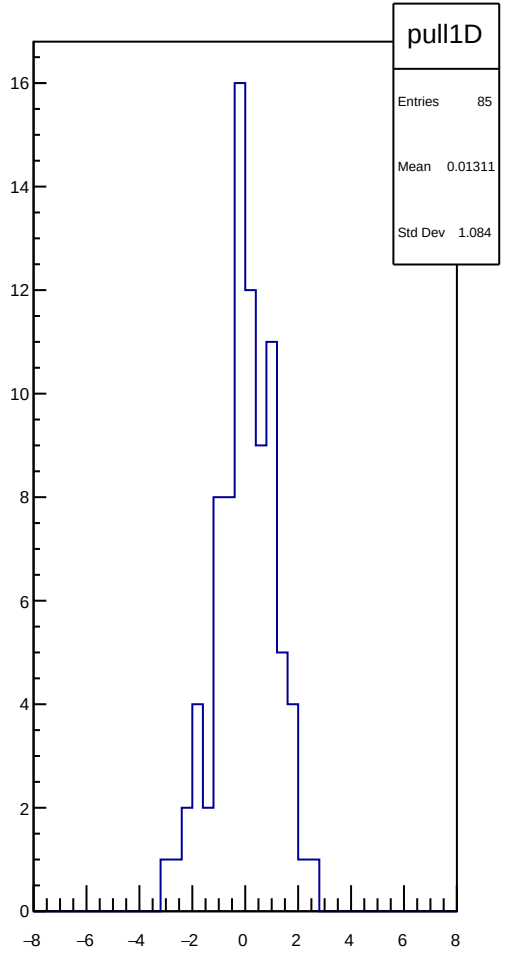

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.228e+04 / 84
p0 749.8 ± 0.5873
1100
1050
1000
950
900
850
800
750
700
650

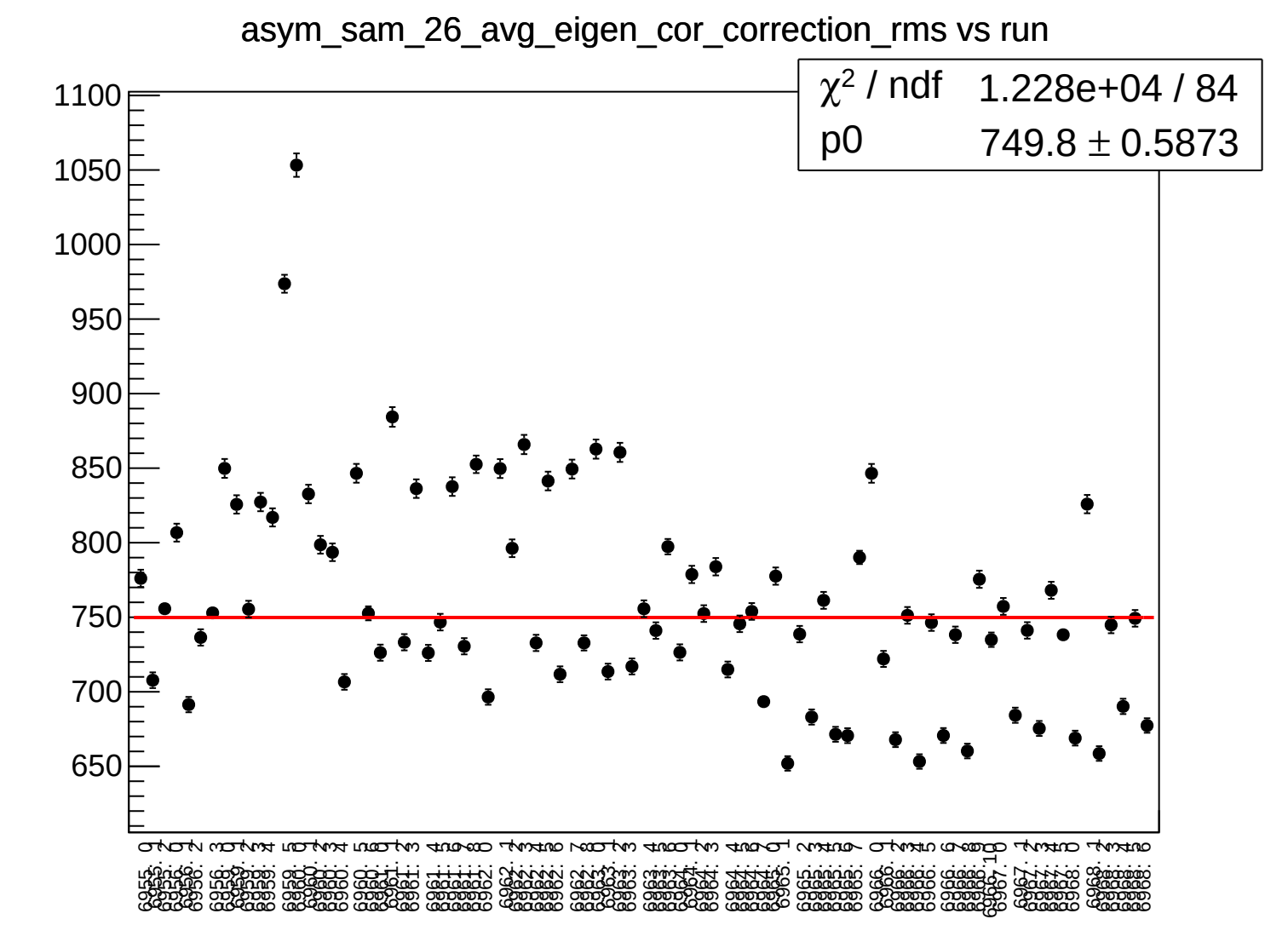

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 72.83 / 84
p0 12.03 ± 97.82
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 1218
Std Dev 0
2
1
0
−1
−2

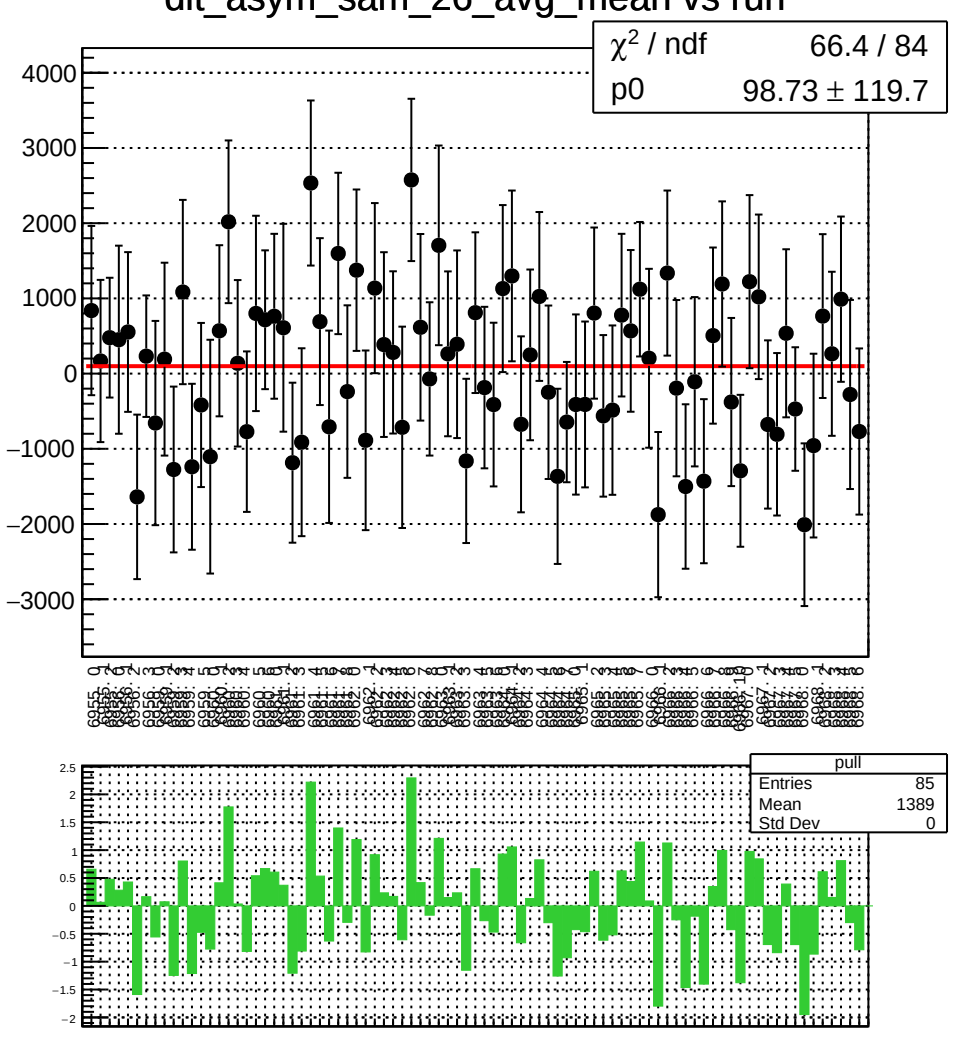

pull1D
Entries 85
Mean −0.003753
Std Dev 0.9256
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

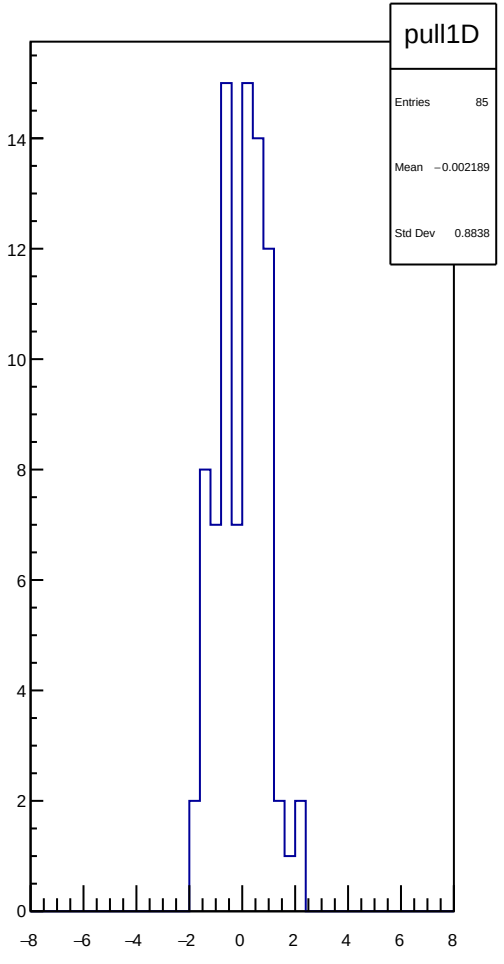

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 8098 / 84
p0 88.43 ± 0.06917
115
110
105
100
95
90
85
80

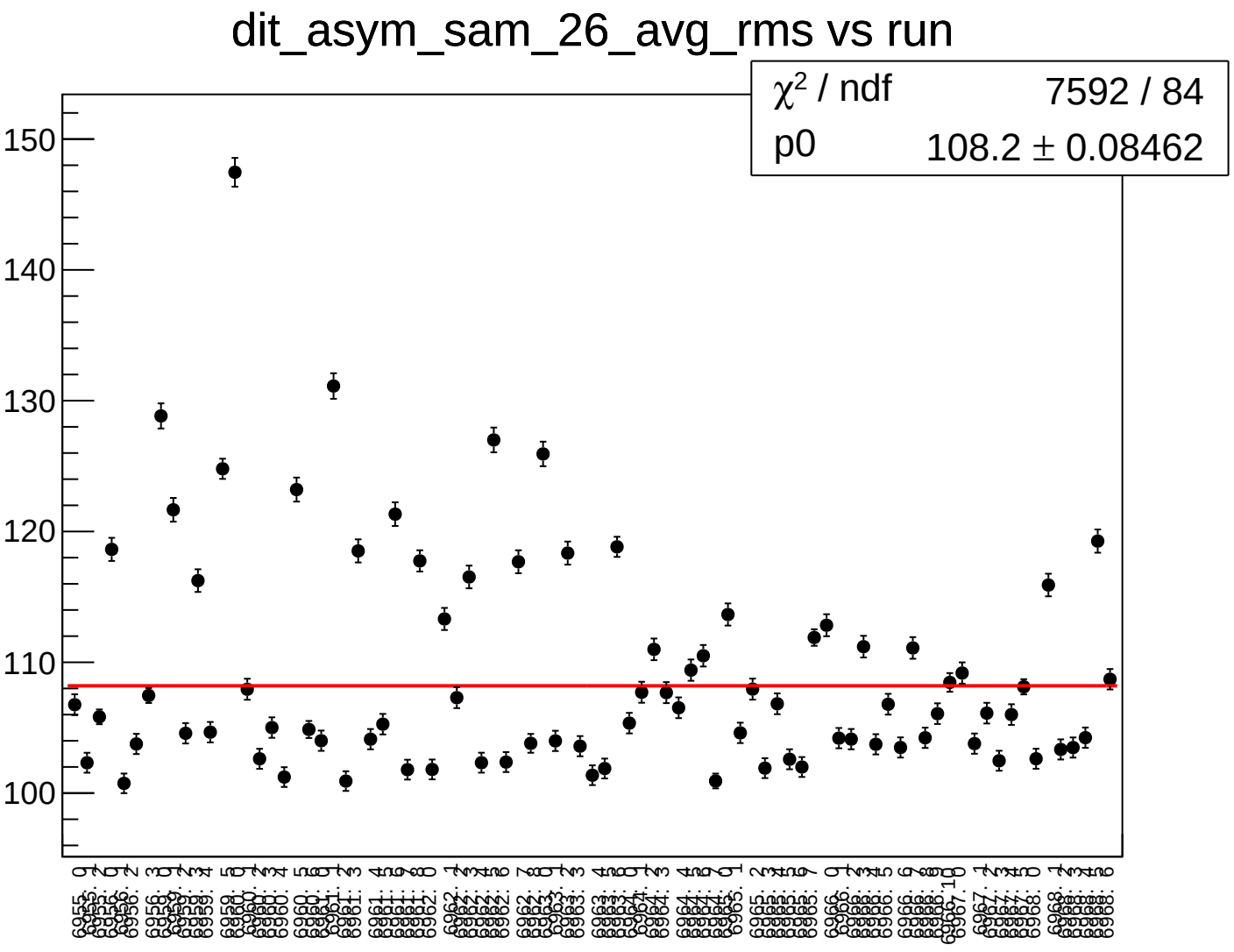

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.97 / 84
p0 −25.77 ± 830.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −120.3
Std Dev 0
2
1
0
−1
−2
−3

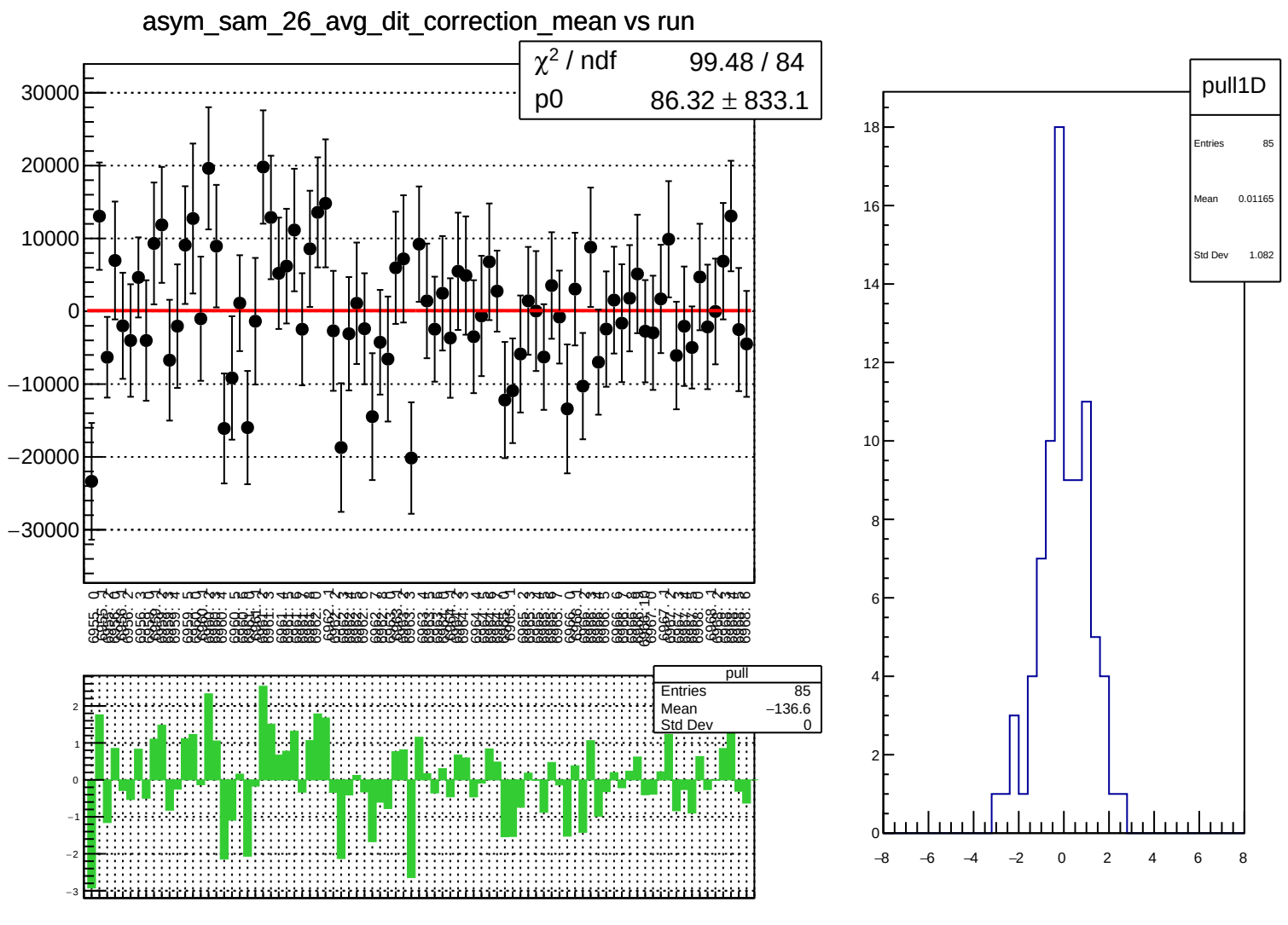

pull1D
Entries 85
Mean 0.01311
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

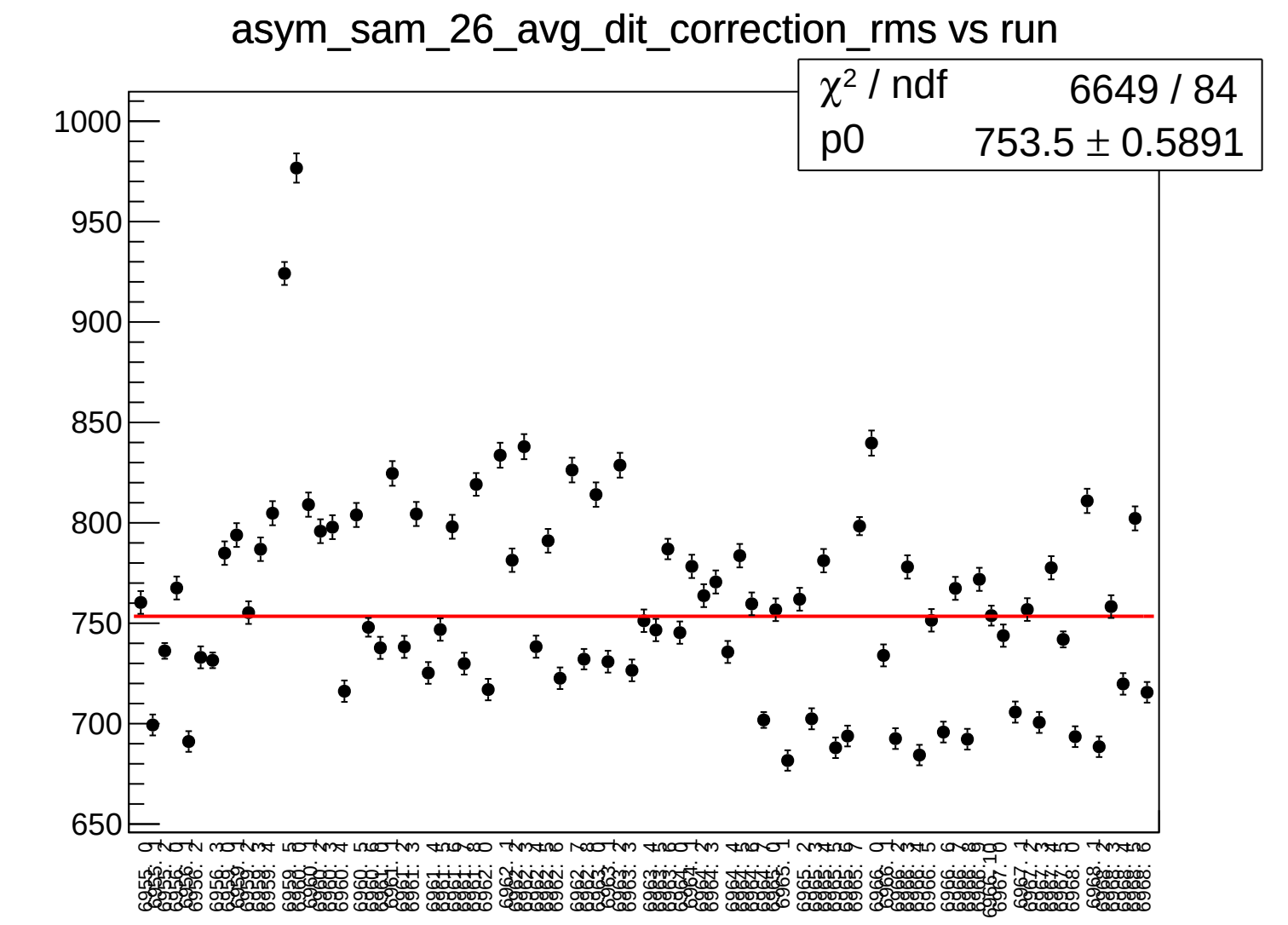

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.228e+04 / 84
p0 749.8 ± 0.5873
1100
1050
1000
950
900
850
800
750
700
650

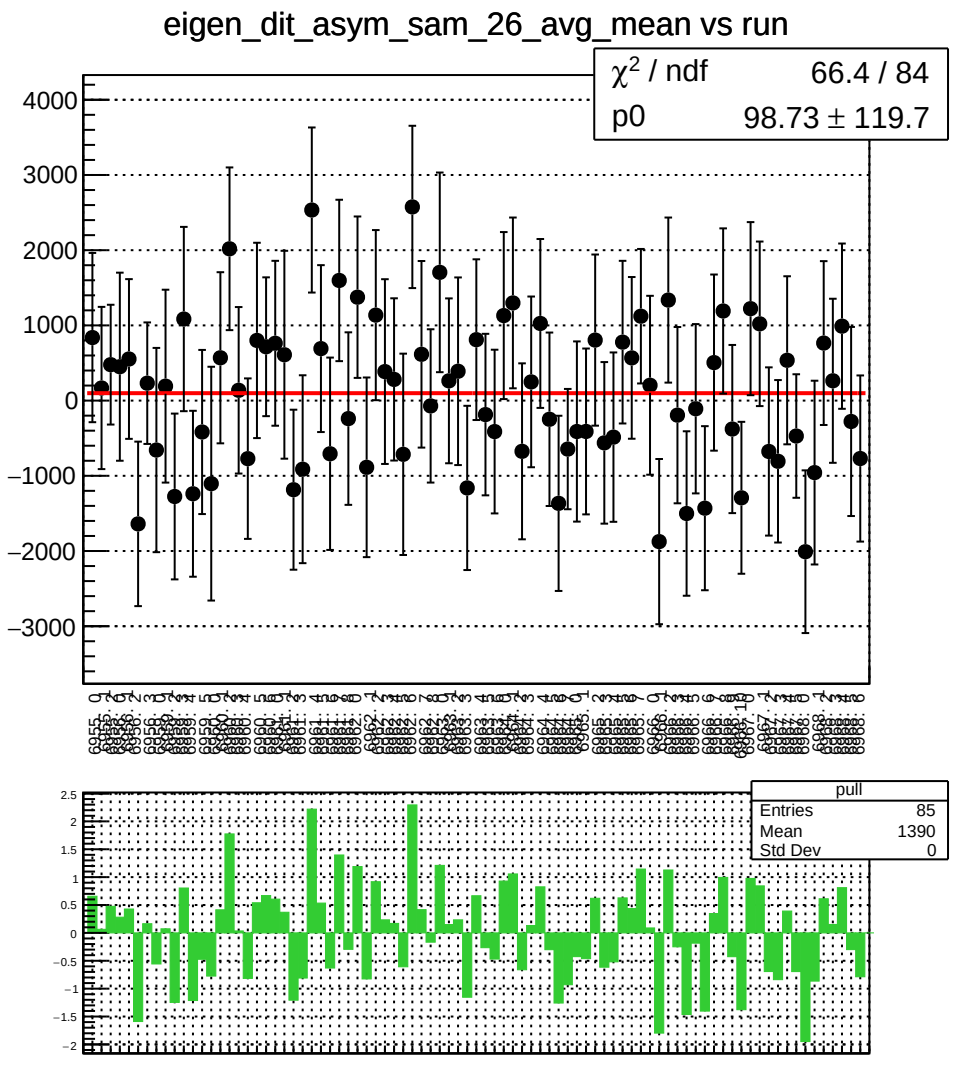

dit_asym_sam_26_avg_mean vs run
χ² / ndf 66.4 / 84
p0 98.73 ± 119.7
pull
Entries 85
Mean 1389
Std Dev 0

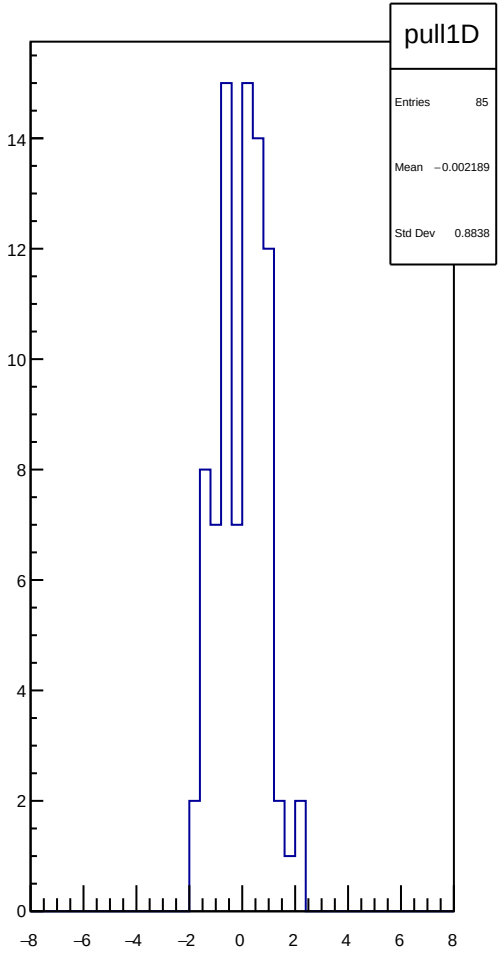

pull1D
Entries 85
Mean −0.002189
Std Dev 0.8838

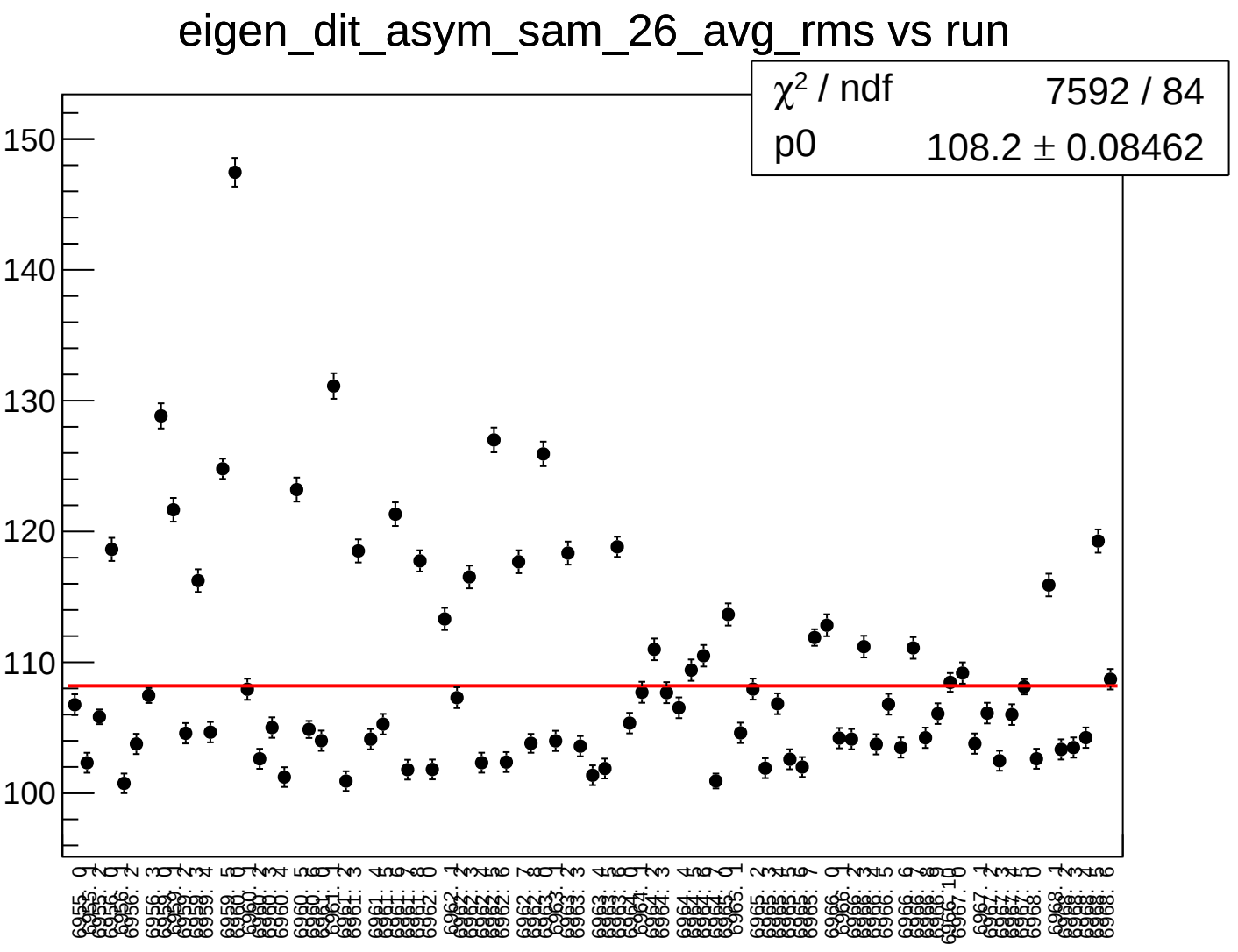

dit_asym_sam_26_avg_rms vs run
χ² / ndf 7592 / 84
p0 108.2 ± 0.08462
150
140
130
120
110
100

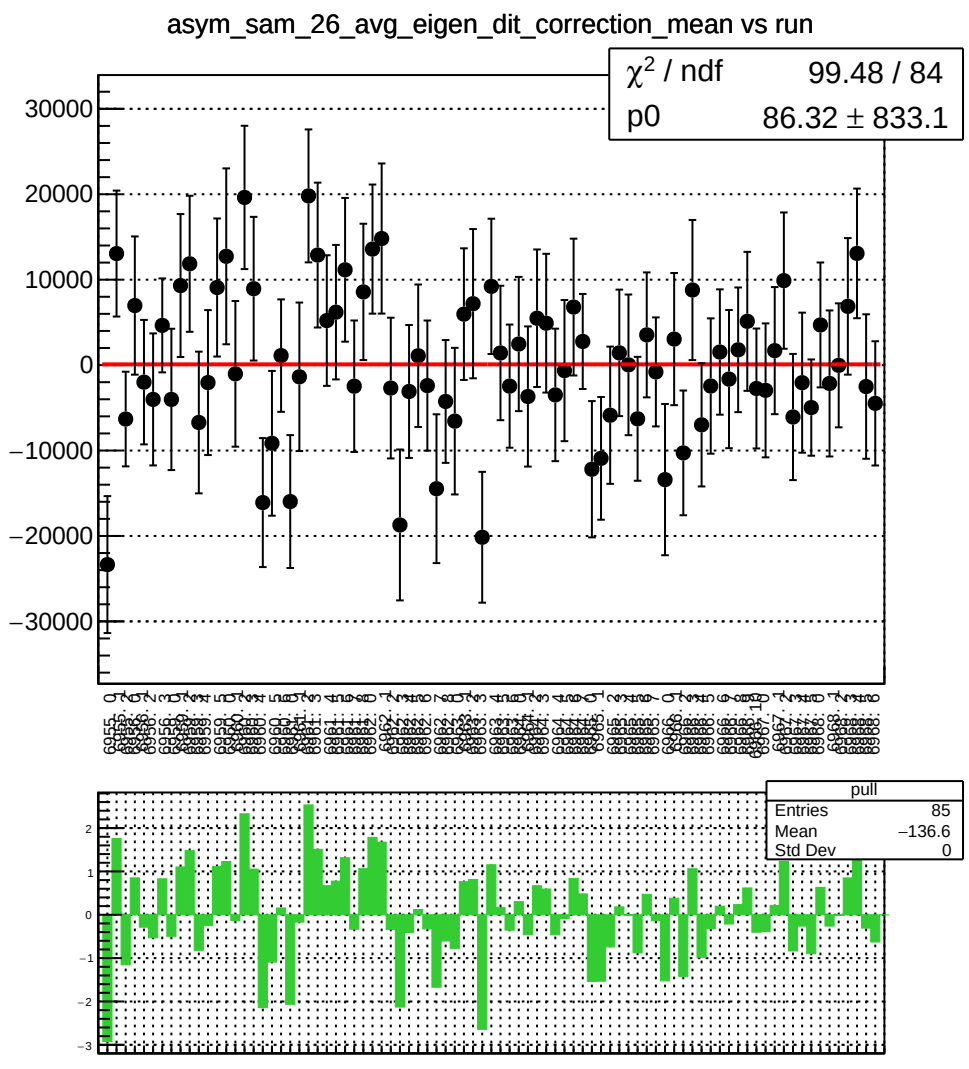

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 99.48 / 84
p0 86.32 ± 833.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −136.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.01165
Std Dev 1.082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

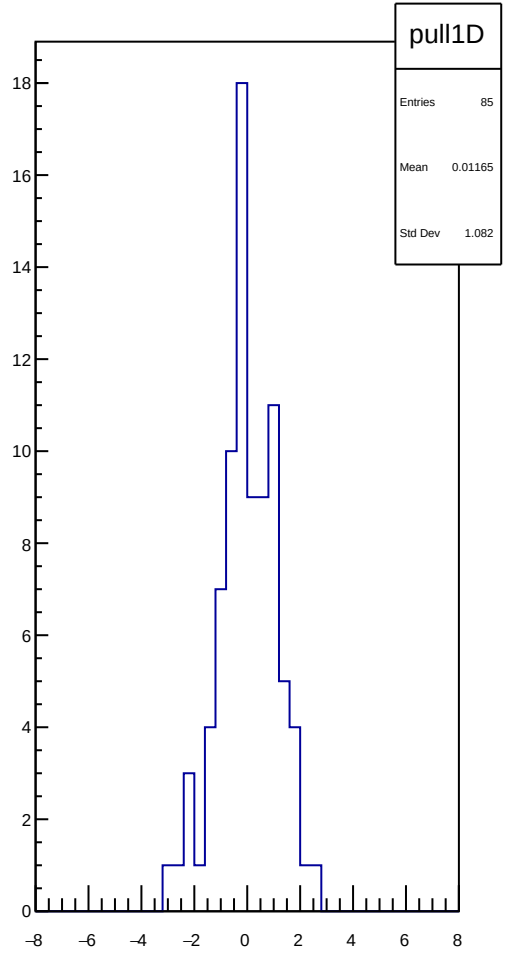

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 6649 / 84
p0 753.5 ± 0.5891
1000
950
900
850
800
750
700
650

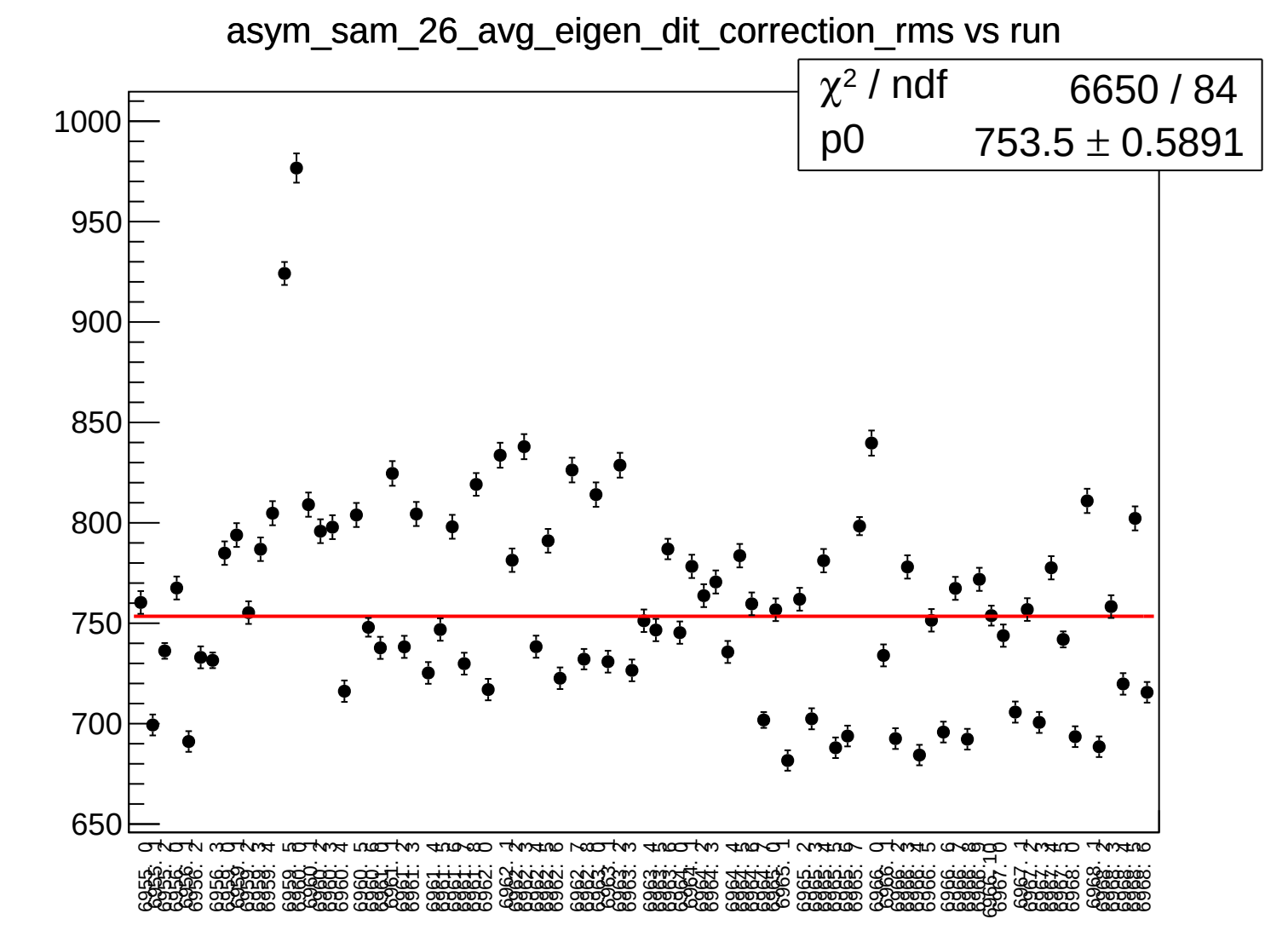

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 66.4 / 84
p0 98.73 ± 119.7
pull
Entries 85
Mean 1390
Std Dev 0

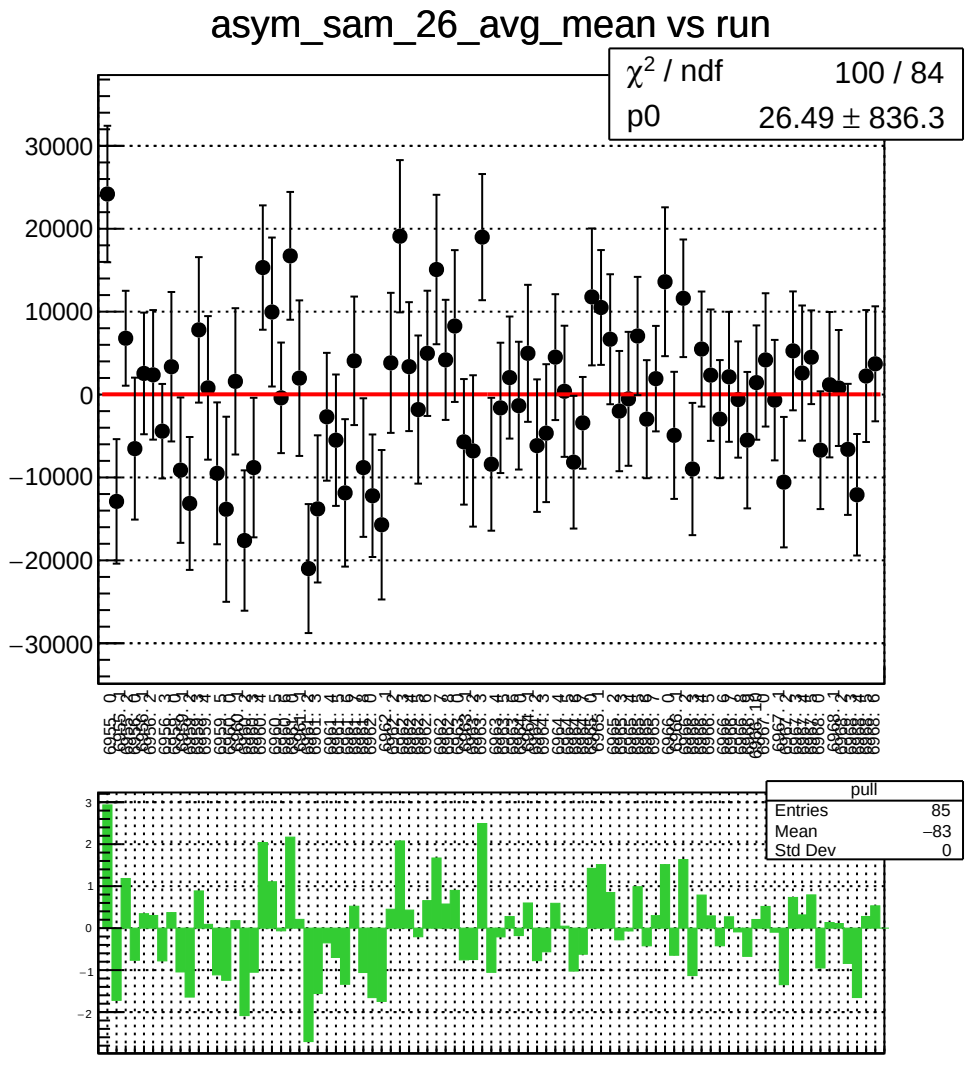

pull1D
Entries 85
Mean −0.002189
Std Dev 0.8838

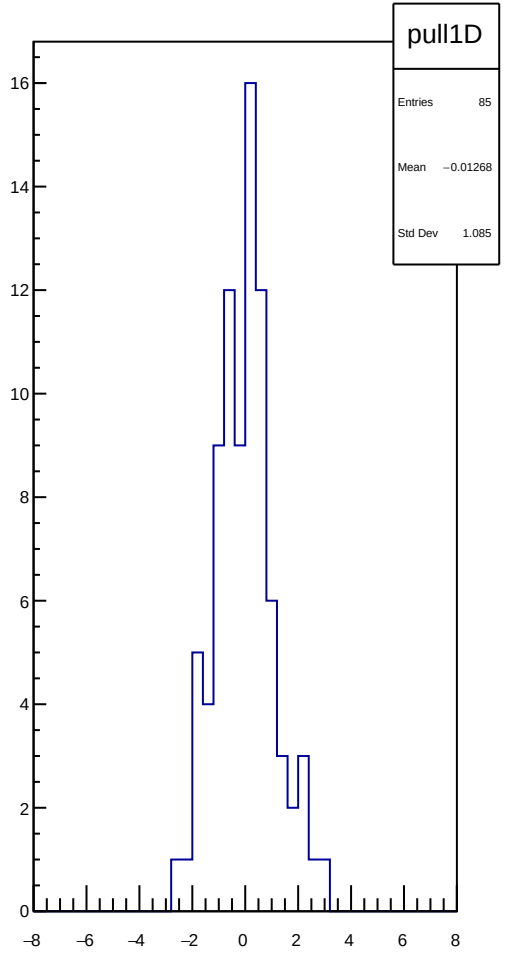

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 7592 / 84
p0 108.2 ± 0.08462
150
140
130
120
110
100

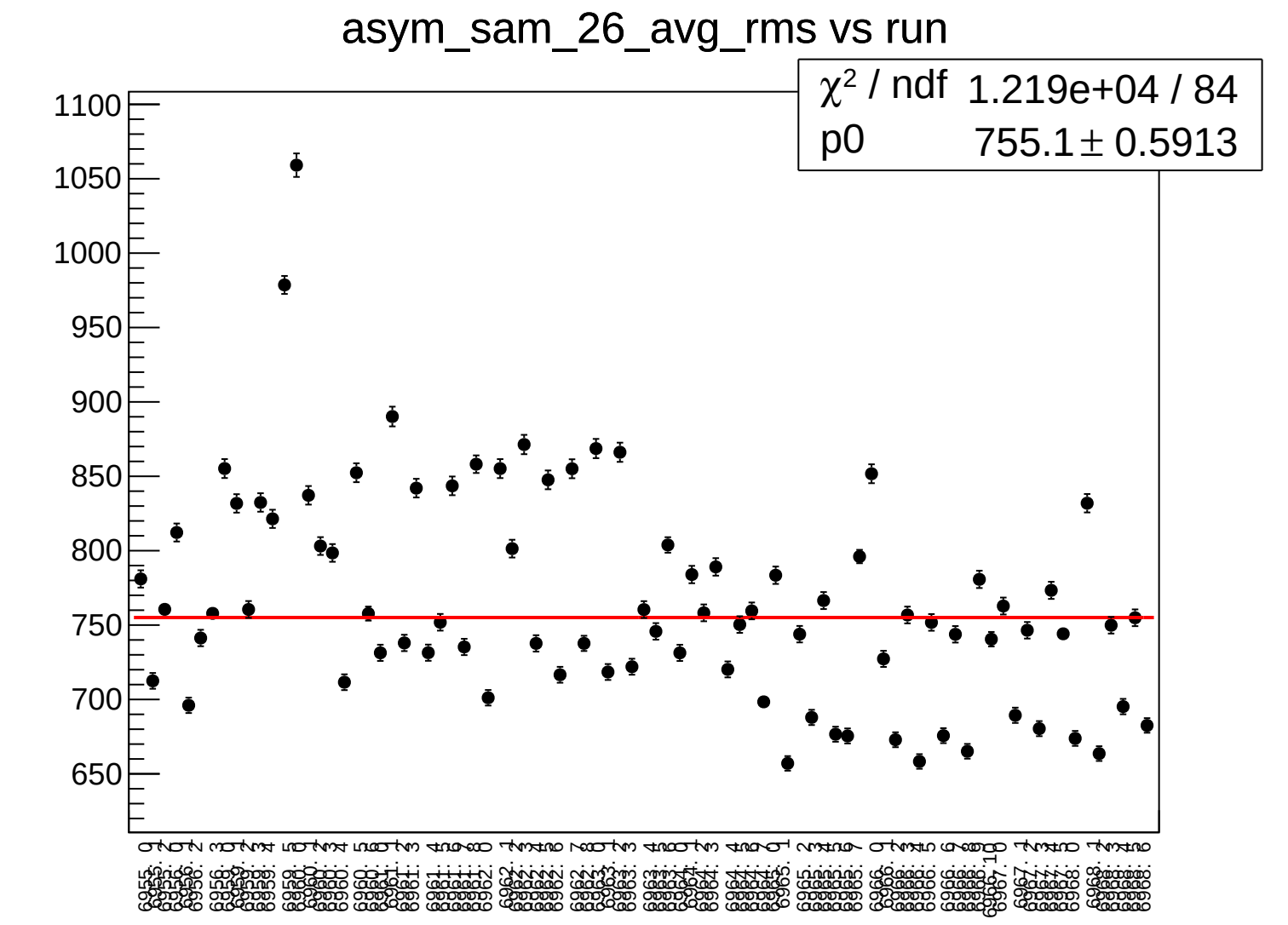

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.48 / 84
p0 86.32 ± 833.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −136.6
Std Dev 0
2
1
0
−1
−2
−3

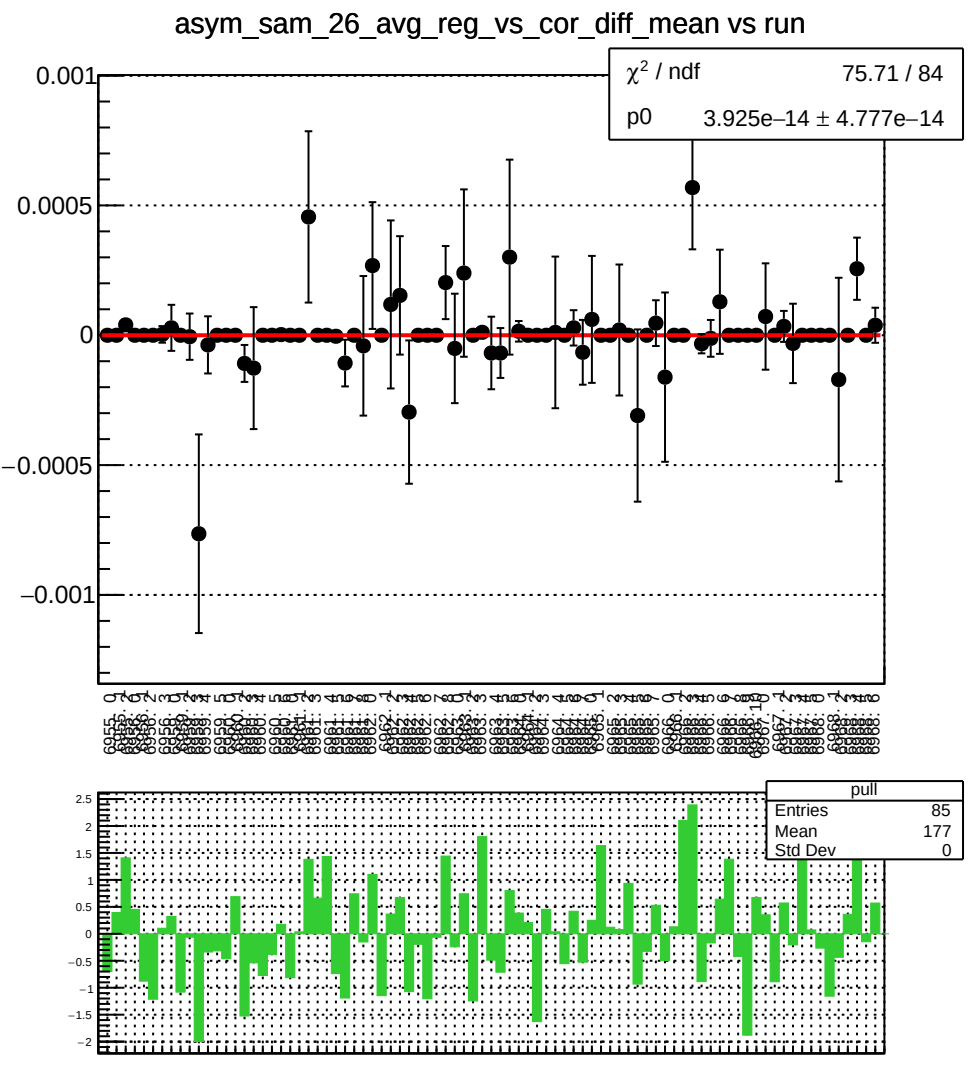

pull1D
Entries 85
Mean 0.01165
Std Dev 1.082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

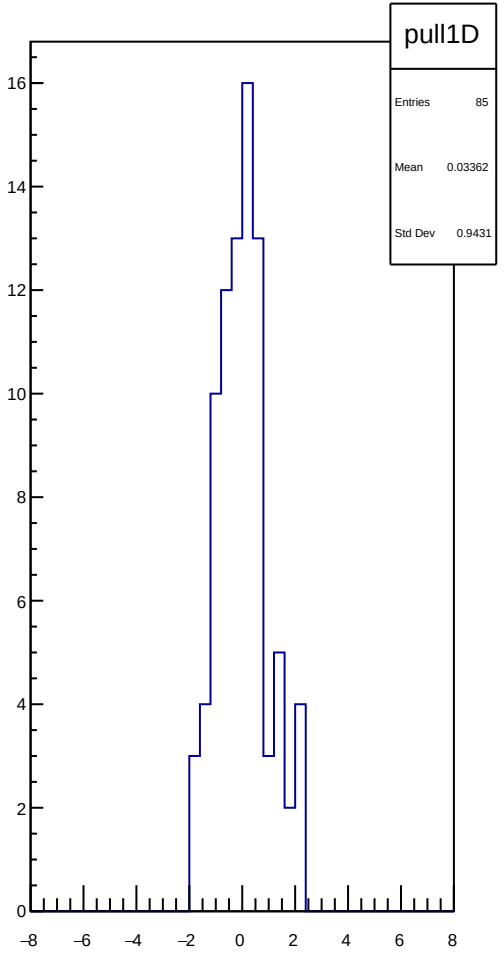

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 6650 / 84
p0 753.5 ± 0.5891
1000
950
900
850
800
750
700
650

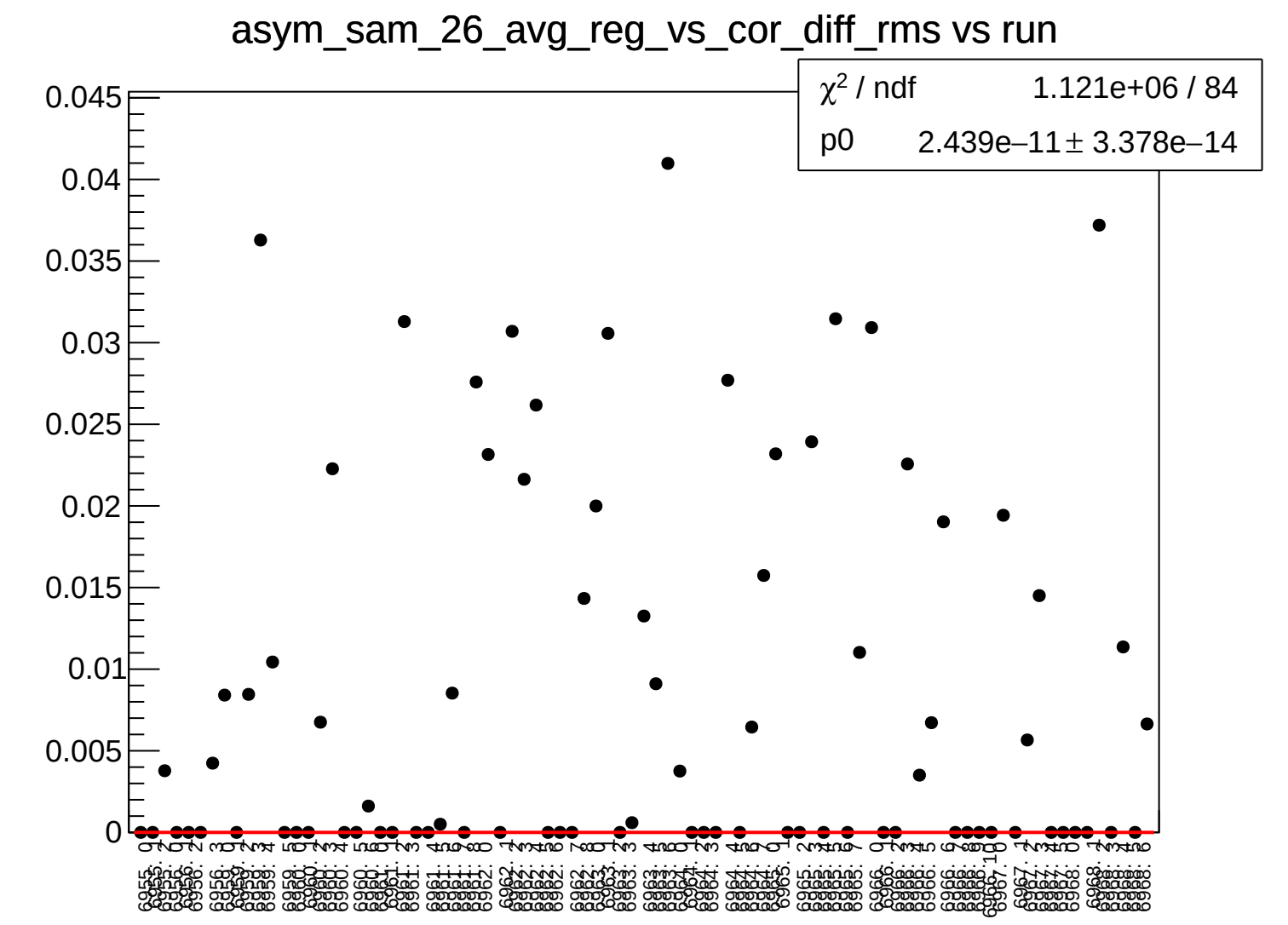

asym_sam_26_avg_mean vs run
χ² / ndf 100 / 84
p0 26.49 ± 836.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −83
Std Dev 0
3
2
1
0
−1
−2

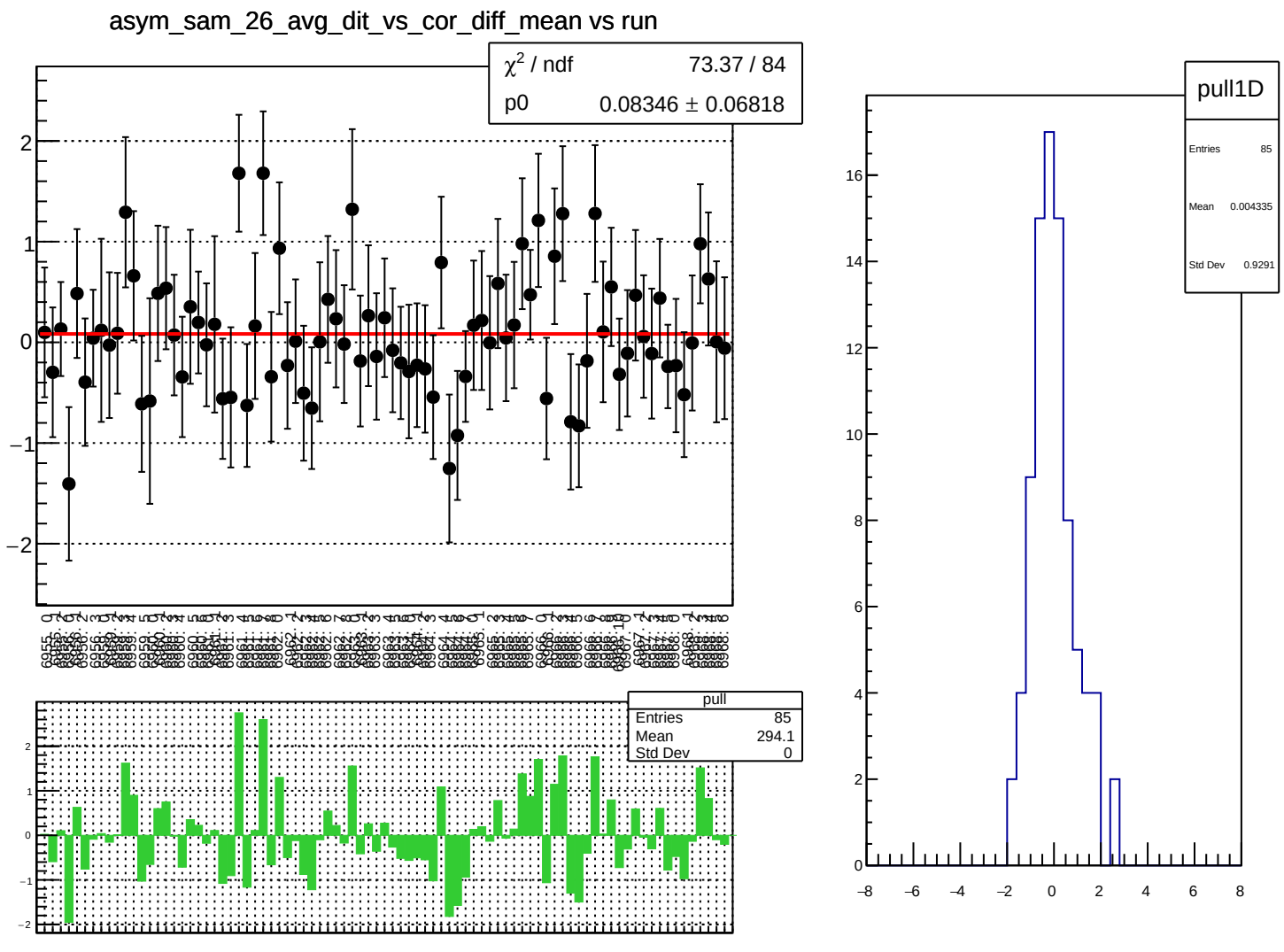

pull1D
Entries 85
Mean −0.01268
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

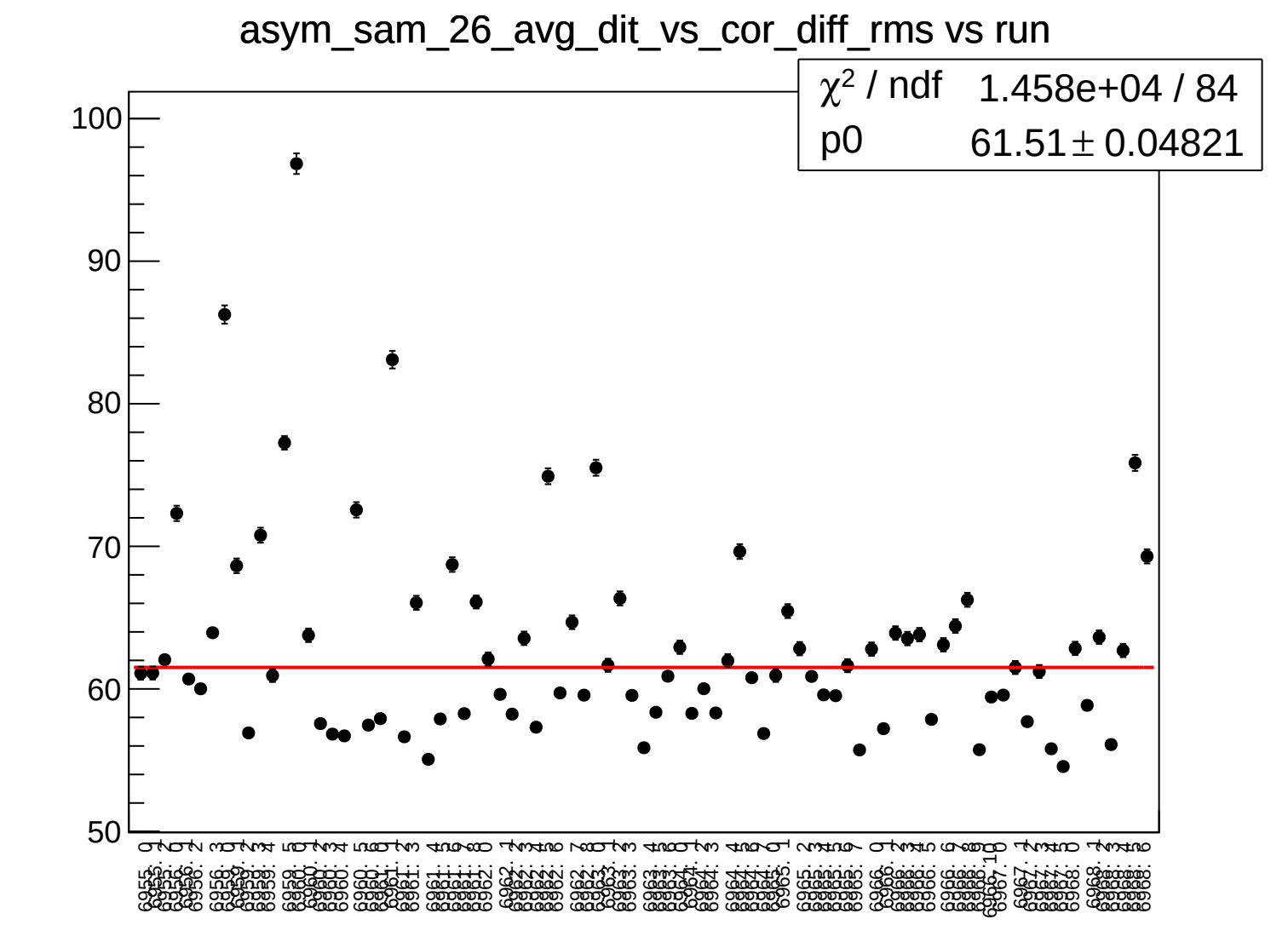

asym_sam_26_avg_rms vs run
χ² / ndf 1.219e+04 / 84
p0 755.1 ± 0.5913
1100
1050
1000
950
900
850
800
750
700
650

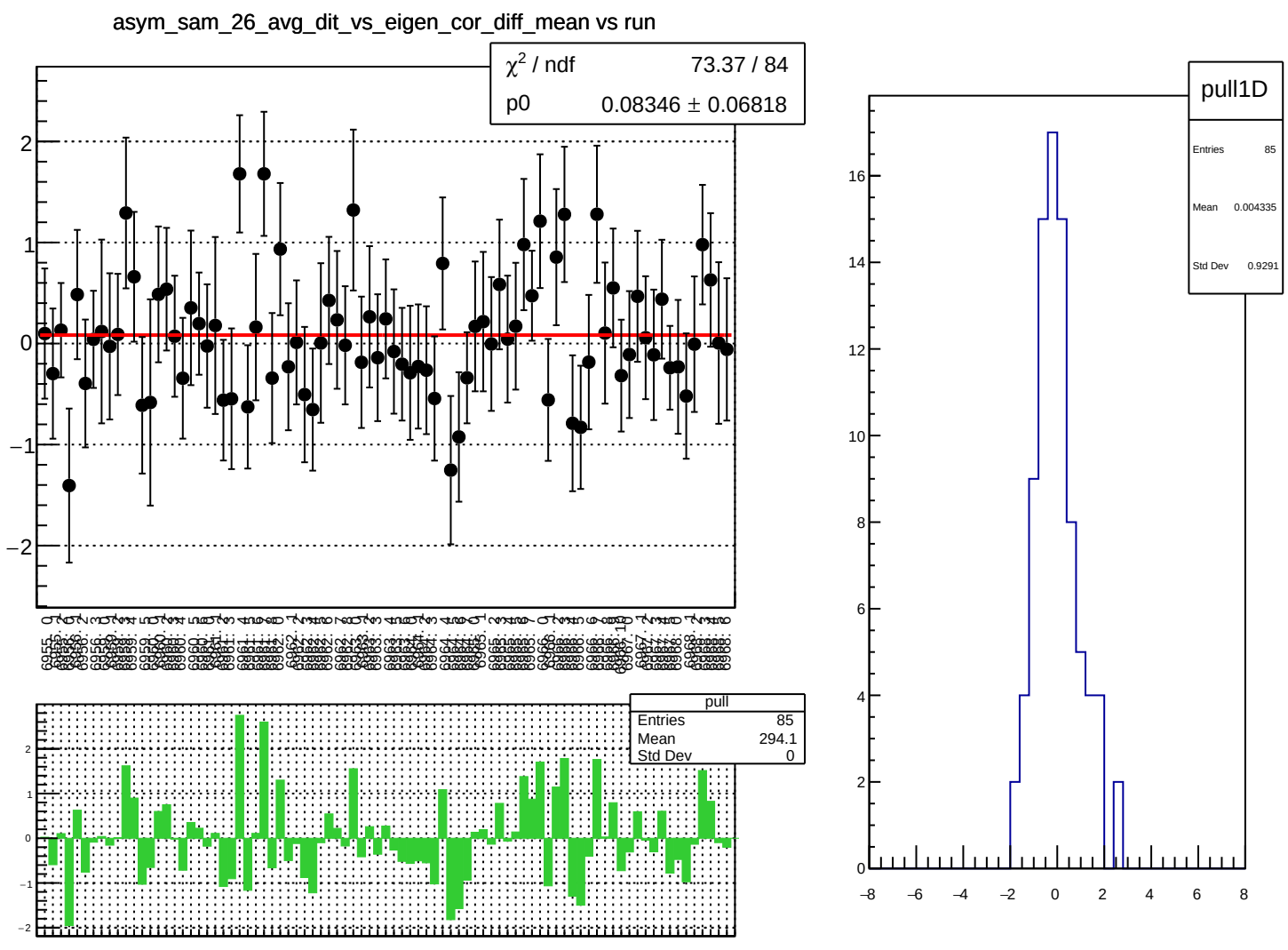

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.71 / 84
p0 3.925e−14 ± 4.777e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 177
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

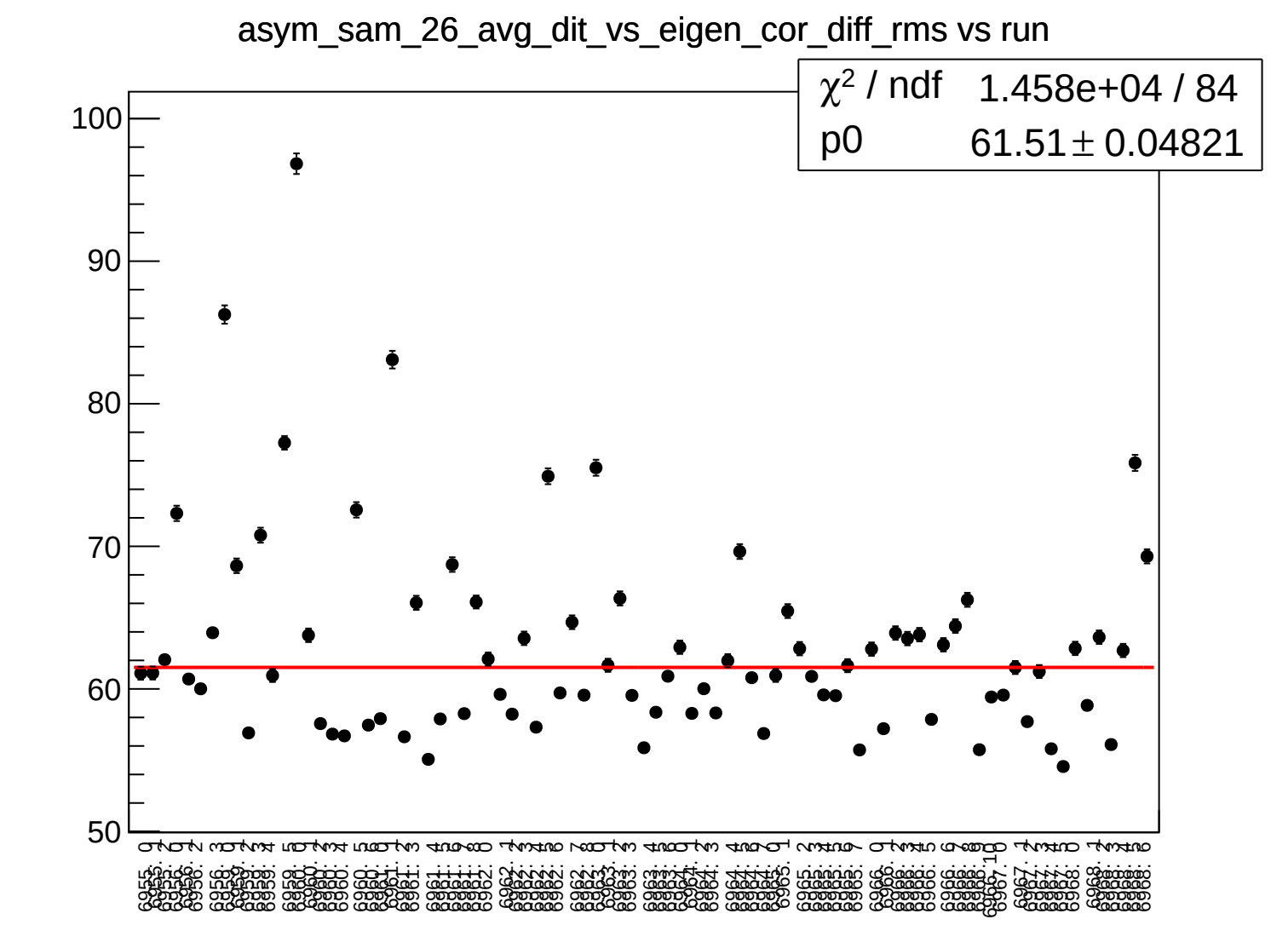

pull1D
Entries 85
Mean 0.03362
Std Dev 0.9431
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

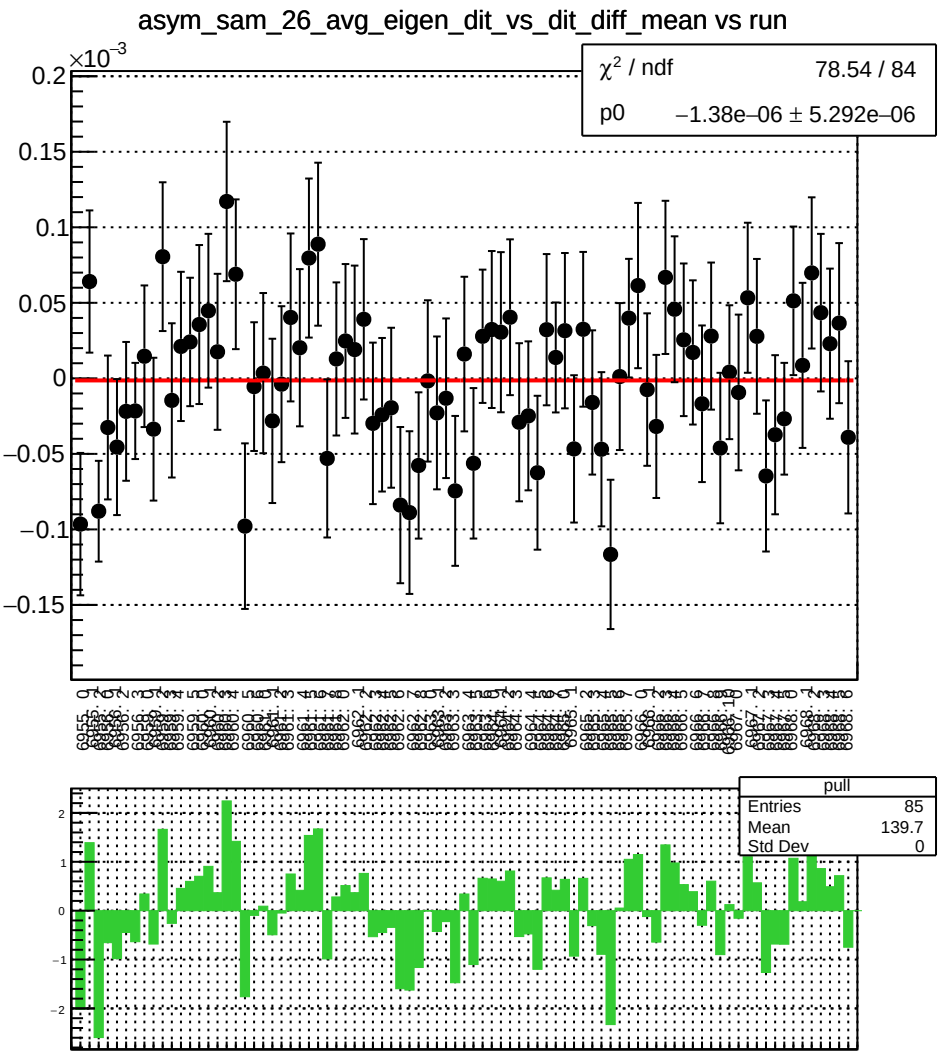

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.121e+06 / 84
p0 2.439e−11 ± 3.378e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

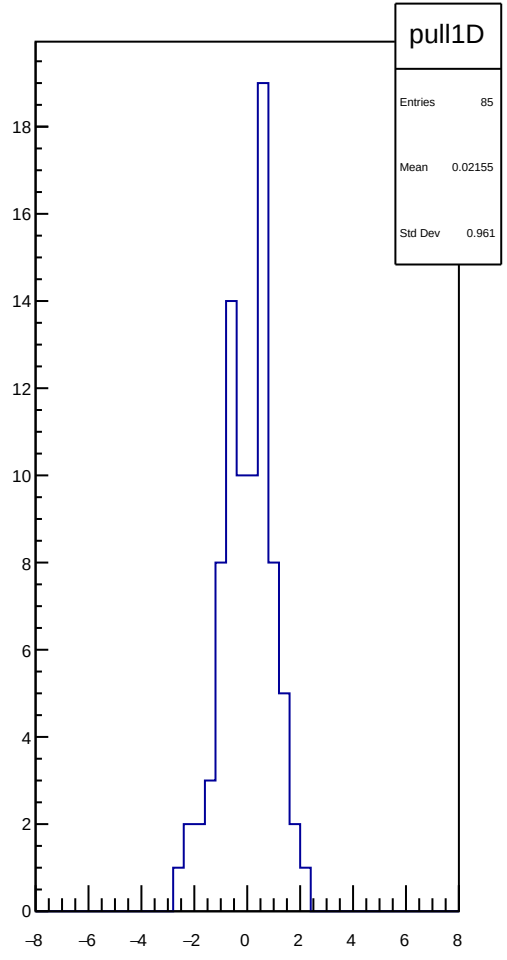

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.37 / 84
p0 0.08346 ± 0.06818
pull
Entries 85
Mean 294.1
Std Dev 0
pull1D
Entries 85
Mean 0.004335
Std Dev 0.9291

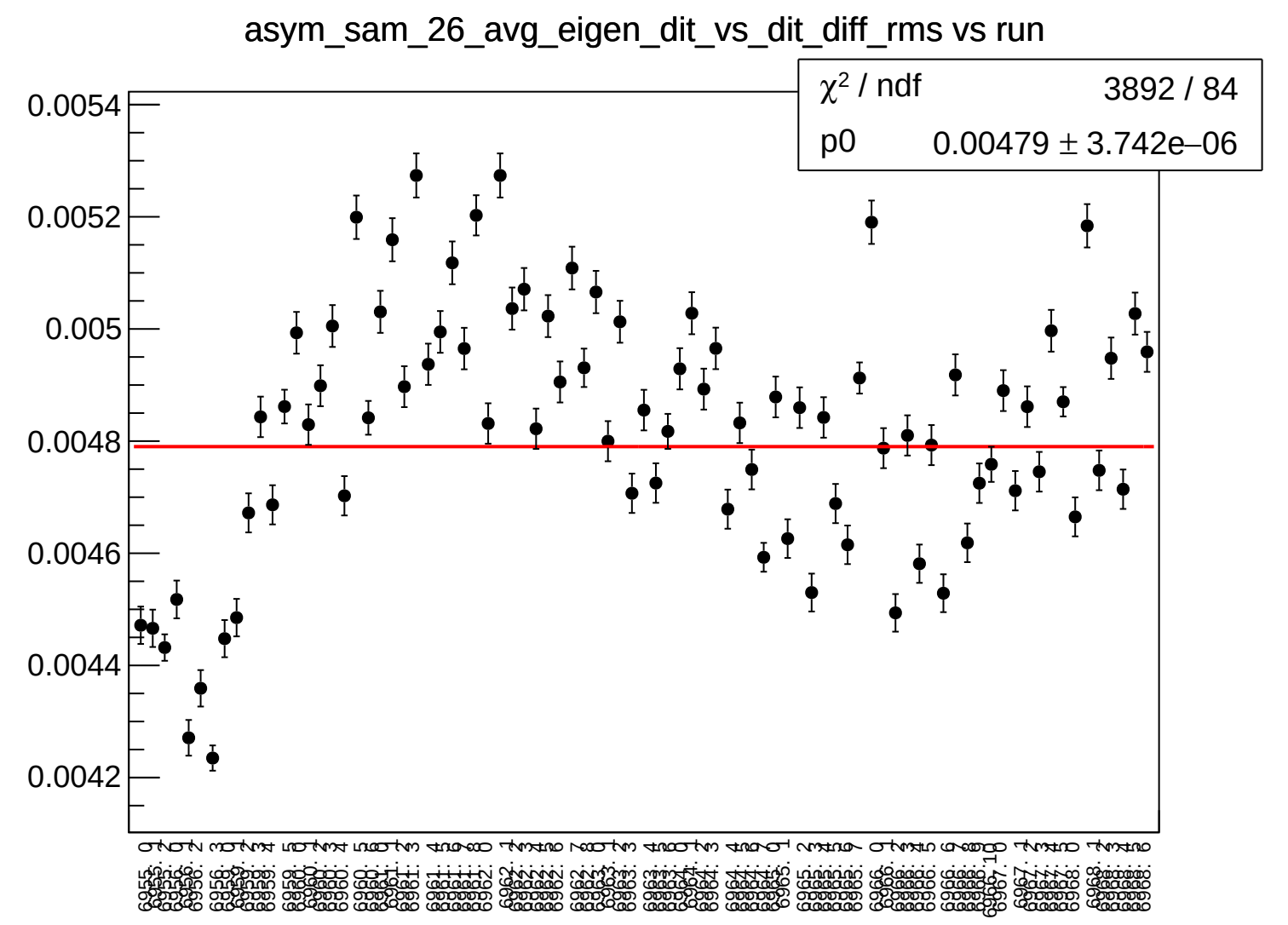

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.458e+04 / 84
p0 61.51 ± 0.04821
100
90
80
70
60
50

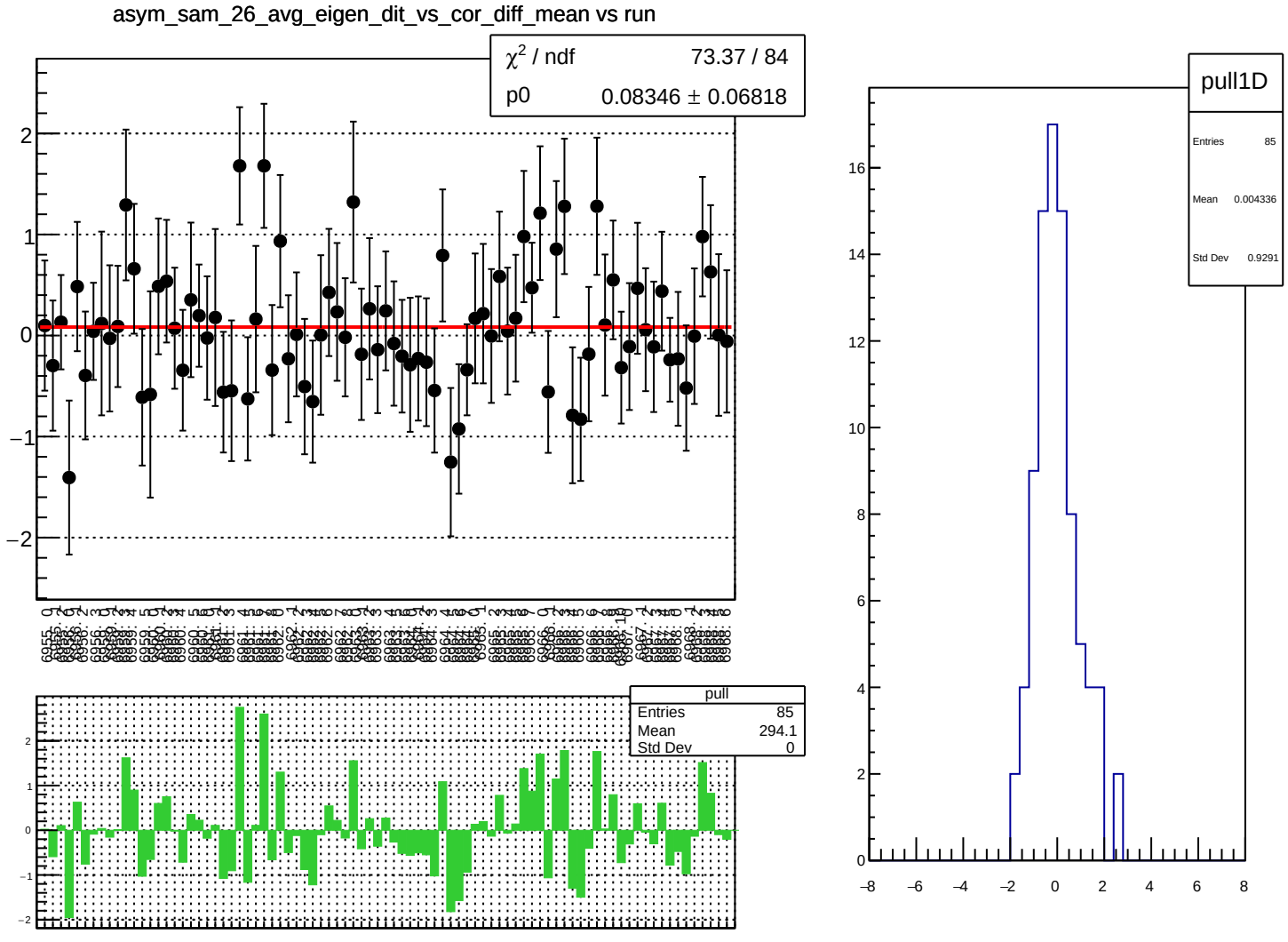

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.37 / 84
p0 0.08346 ± 0.06818
pull
Entries 85
Mean 294.1
Std Dev 0
pull1D
Entries 85
Mean 0.004335
Std Dev 0.9291

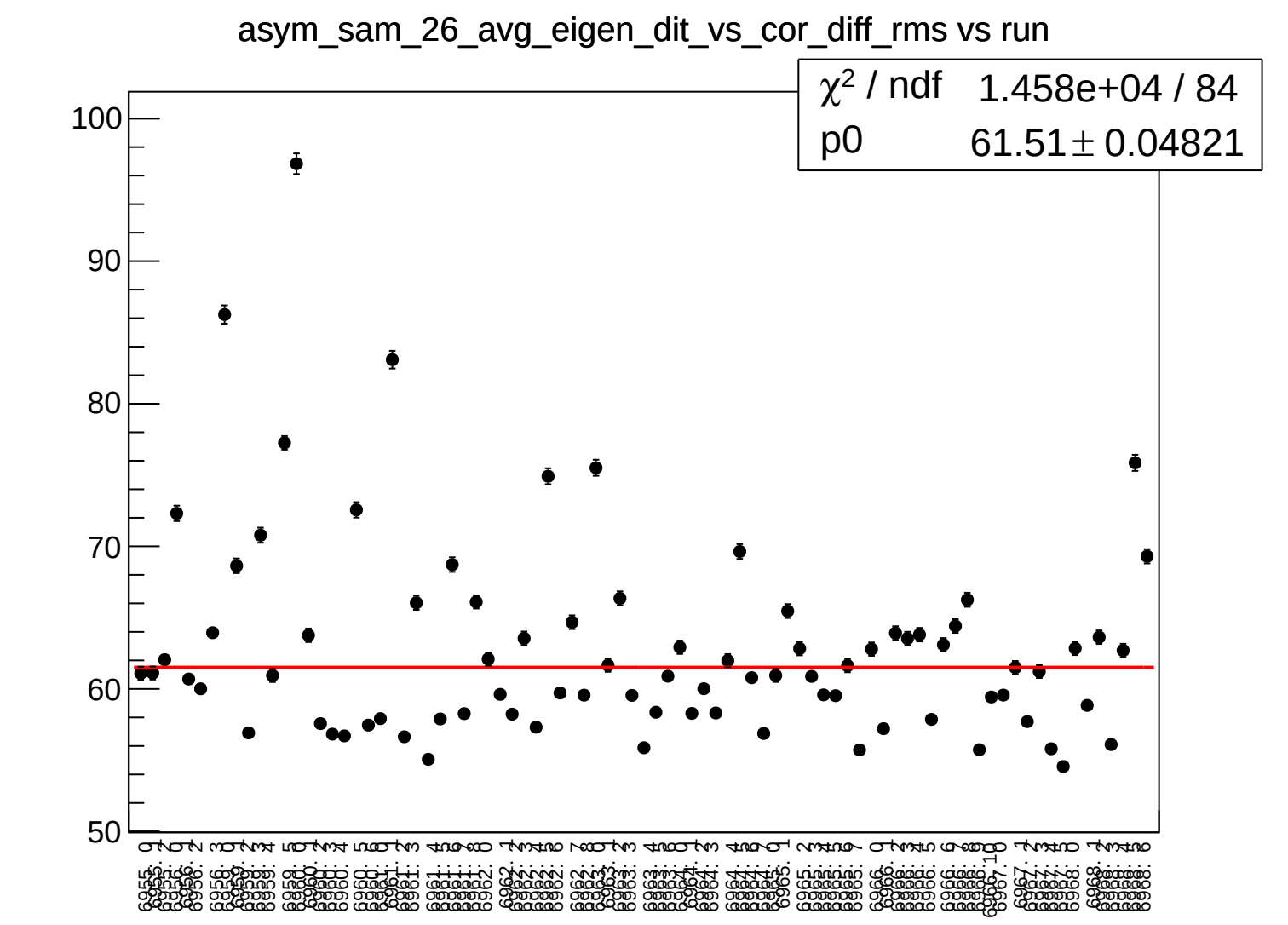

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.458e+04 / 84
p0 61.51 ± 0.04821
100
90
80
70
60
50

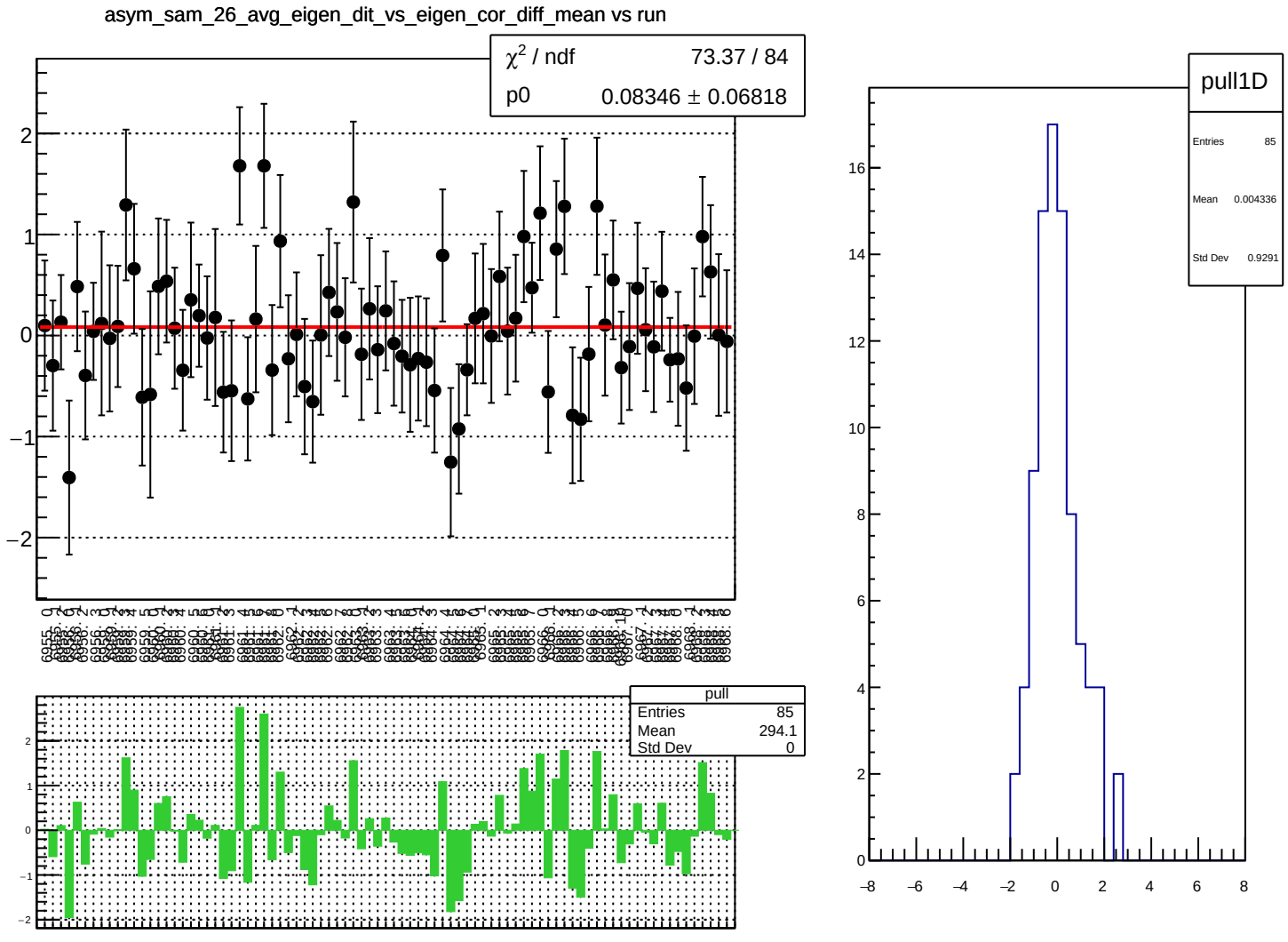

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.54 / 84
p0 −1.38e−06 ± 5.292e−06
pull
Entries 85
Mean 139.7
Std Dev 0

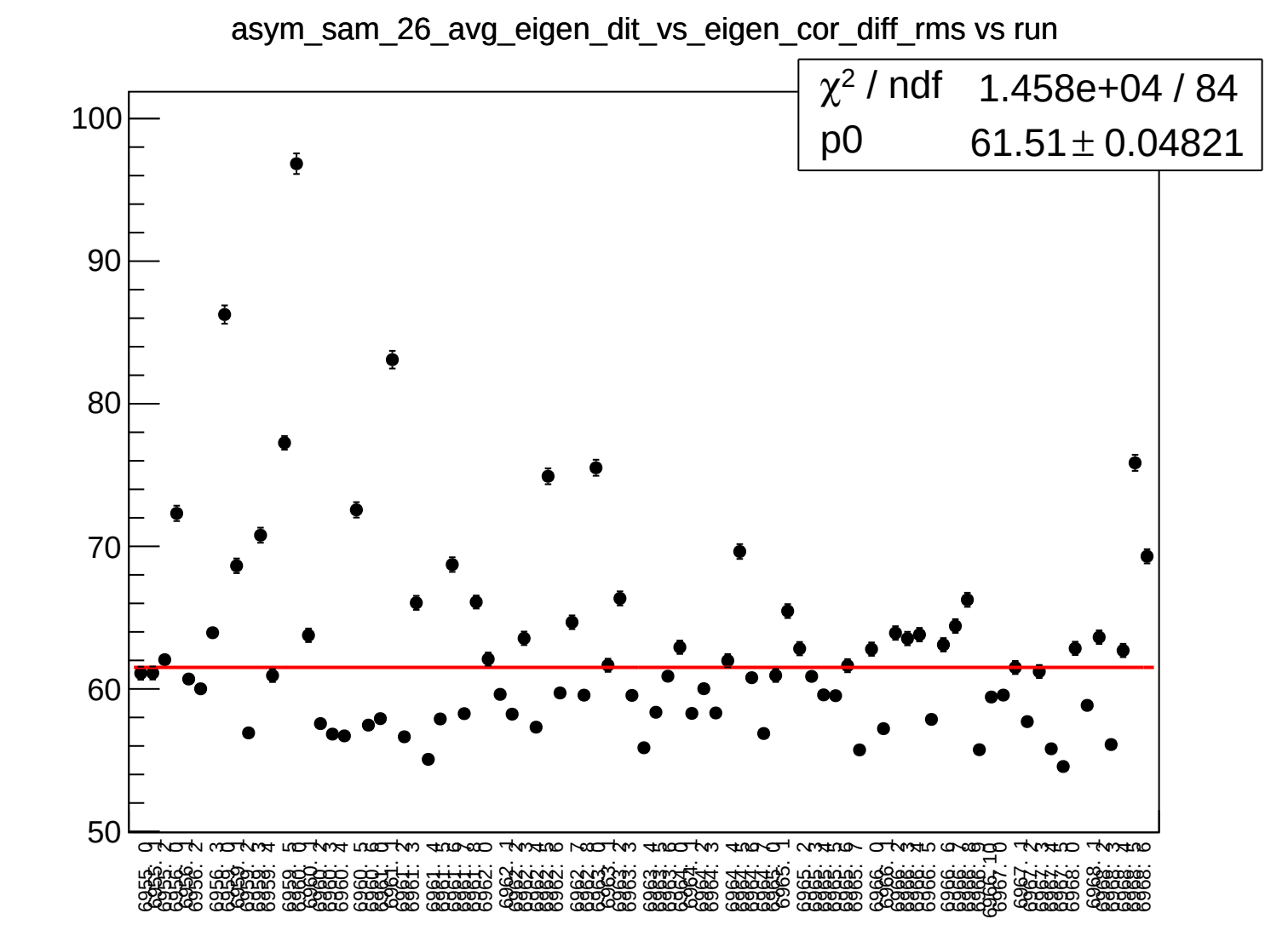

pull1D
Entries 85
Mean 0.02155
Std Dev 0.961

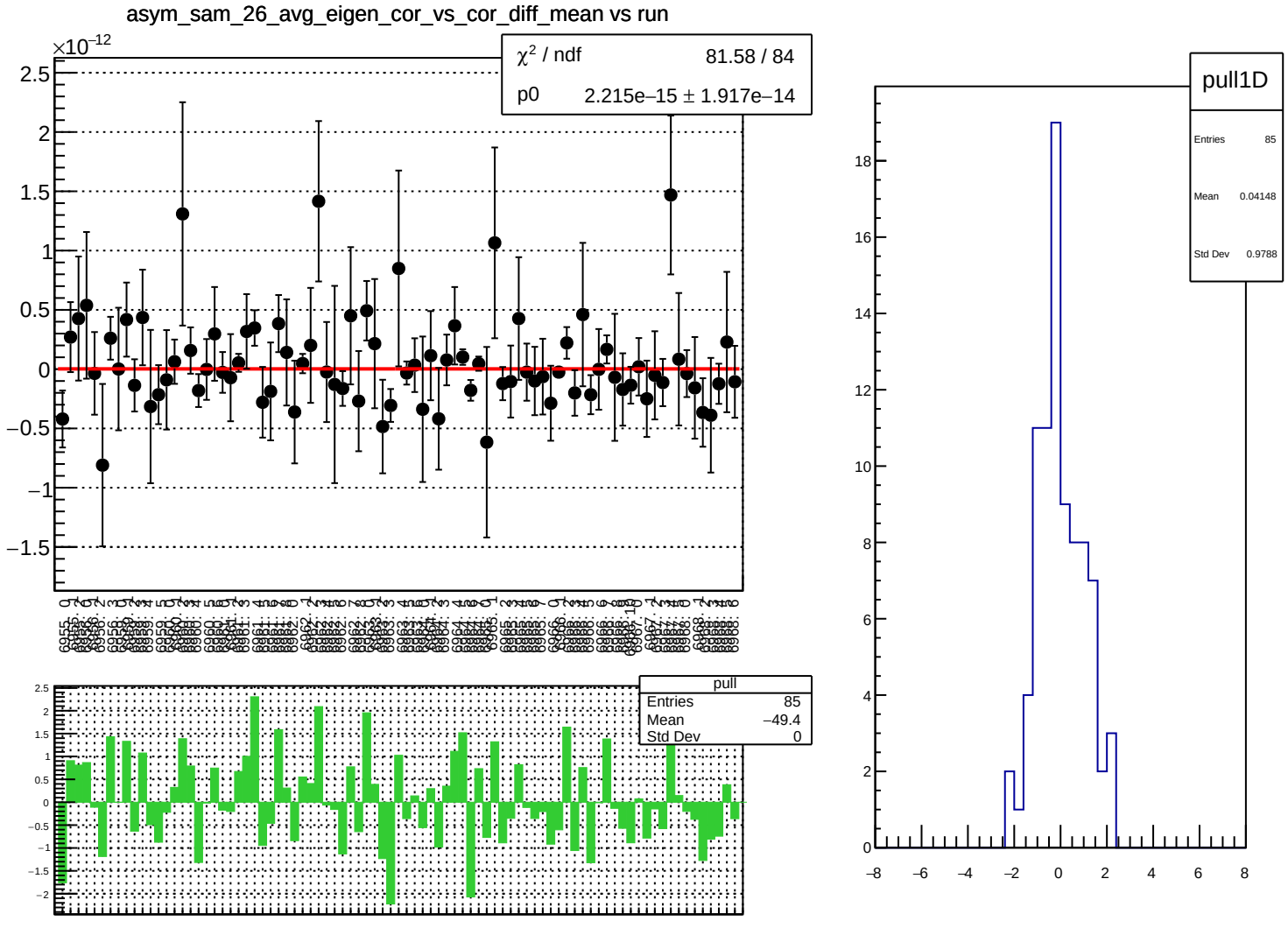

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3892 / 84
p0 0.00479 ± 3.742e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

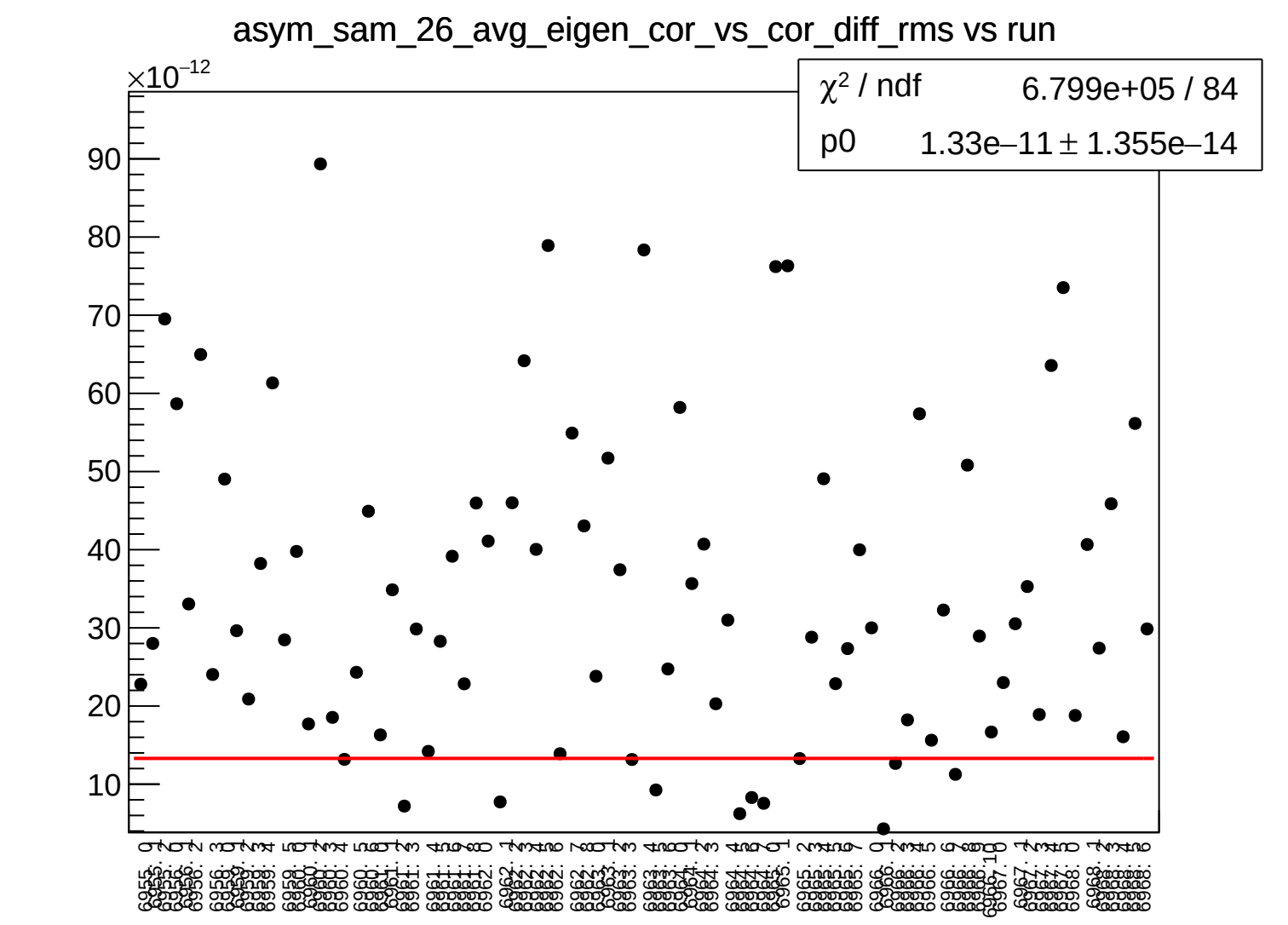

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.37 / 84
p0 0.08346 ± 0.06818
pull
Entries 85
Mean 294.1
Std Dev 0
pull1D
Entries 85
Mean 0.004336
Std Dev 0.9291

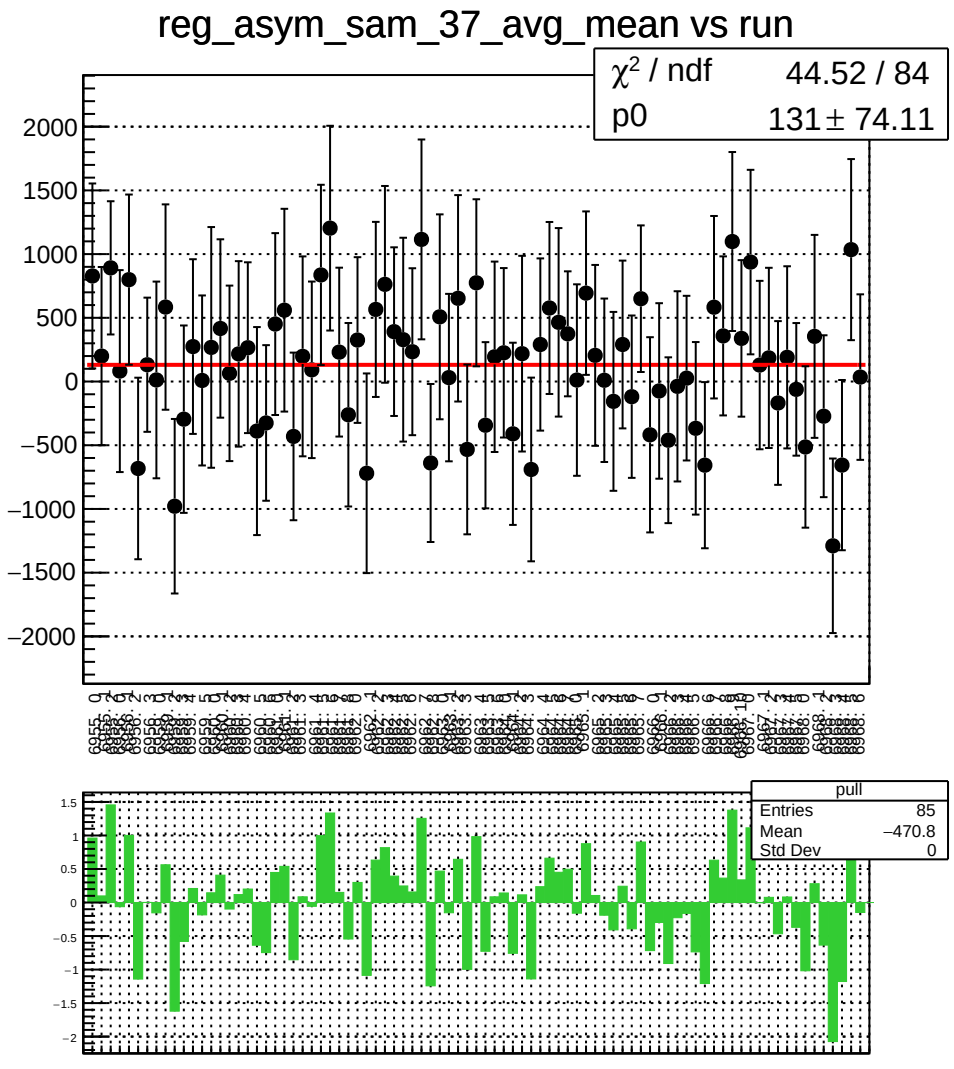

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.458e+04 / 84
p0 61.51 ± 0.04821
100
90
80
70
60
50

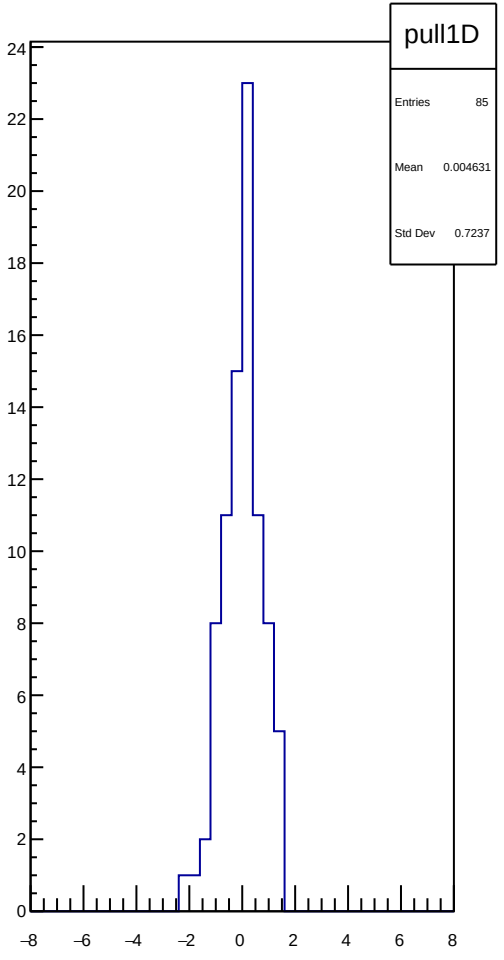

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.37 / 84
p0 0.08346 ± 0.06818
pull
Entries 85
Mean 294.1
Std Dev 0
pull1D
Entries 85
Mean 0.004336
Std Dev 0.9291

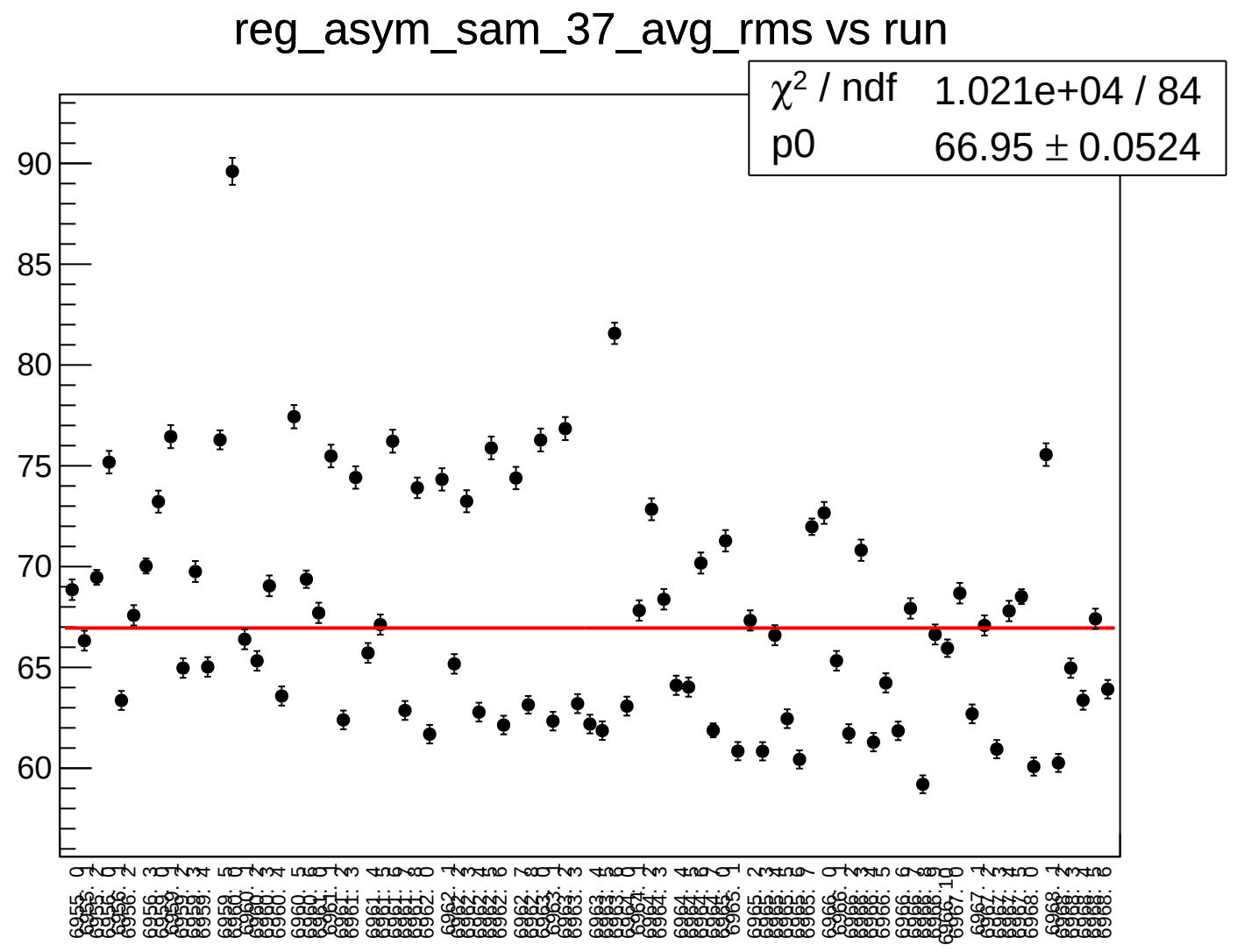

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.458e+04 / 84
p0 61.51 ± 0.04821
100
90
80
70
60
50

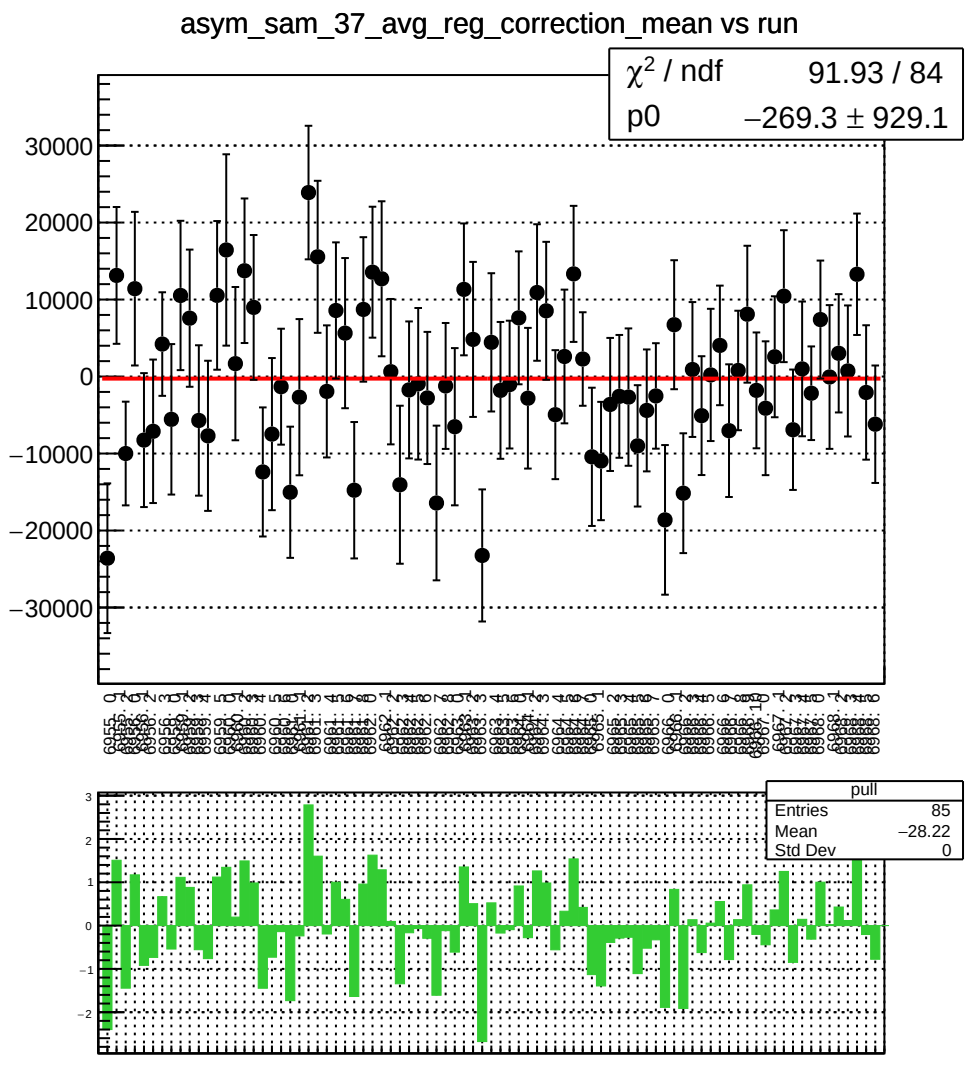

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.58 / 84
p0 2.215e−15 ± 1.917e−14
pull
Entries 85
Mean −49.4
Std Dev 0
pull1D
Entries 85
Mean 0.04148
Std Dev 0.9788

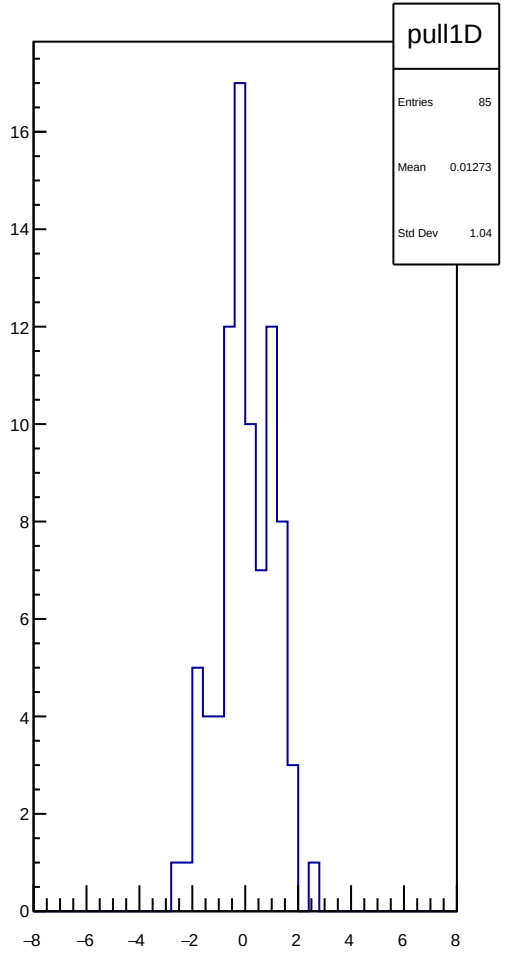

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.799e+05 / 84
p0 1.33e−11 ± 1.355e−14
90
80
70
60
50
40
30
20
10

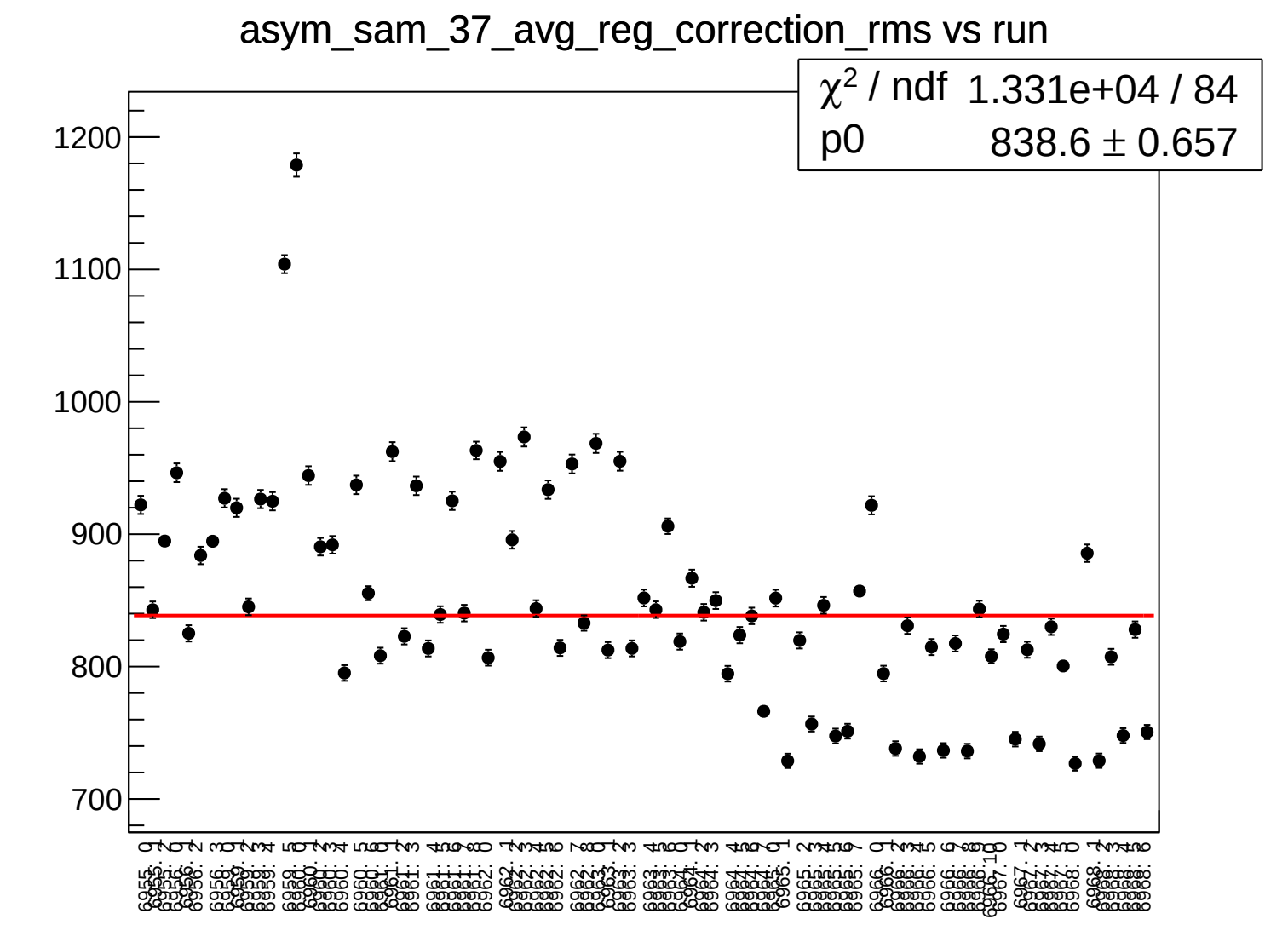

reg_asym_sam_37_avg_mean vs run
χ² / ndf 44.52 / 84
p0 131 ± 74.11
pull
Entries 85
Mean −470.8
Std Dev 0

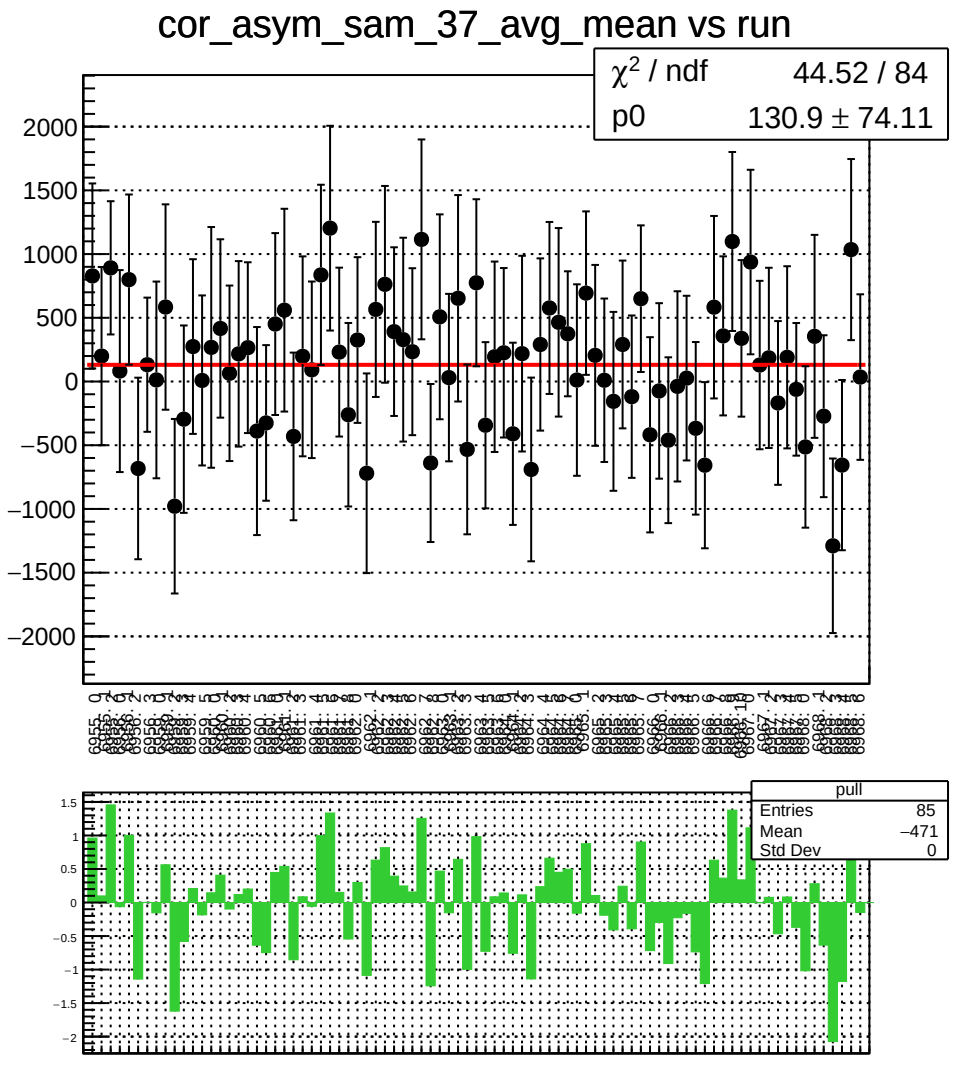

pull1D
Entries 85
Mean 0.004631
Std Dev 0.7237

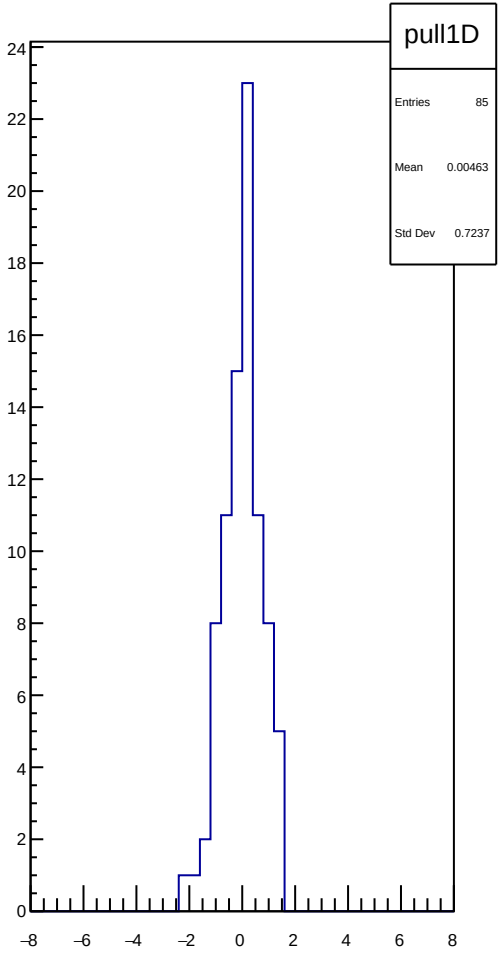

reg_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 1.021e+04 / 84
p0 66.95 ± 0.0524
90
85
80
75
70
65
60

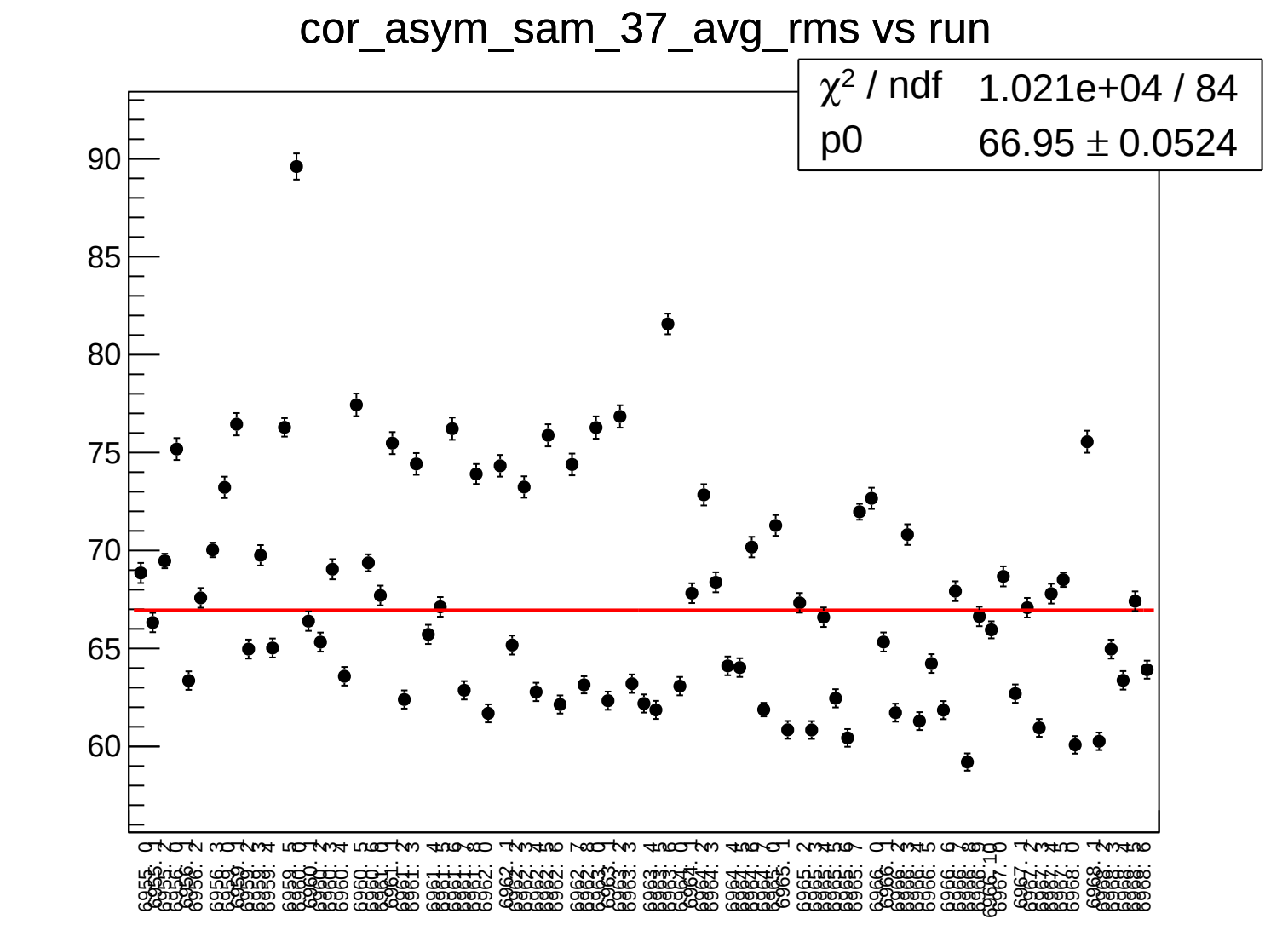

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 91.93 / 84
p0 −269.3 ± 929.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −28.22
Std Dev 0
3
2
1
0
−1
−2

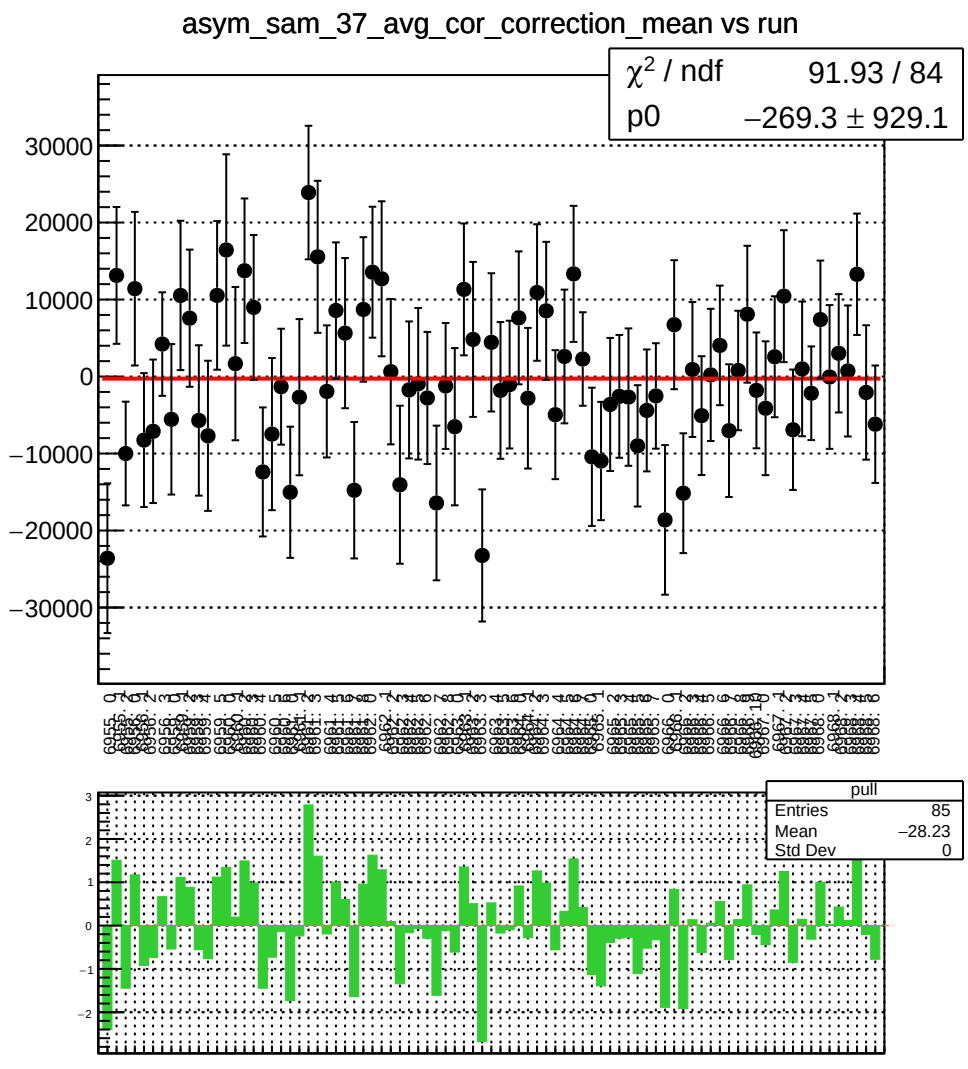

pull1D
Entries 85
Mean 0.01273
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

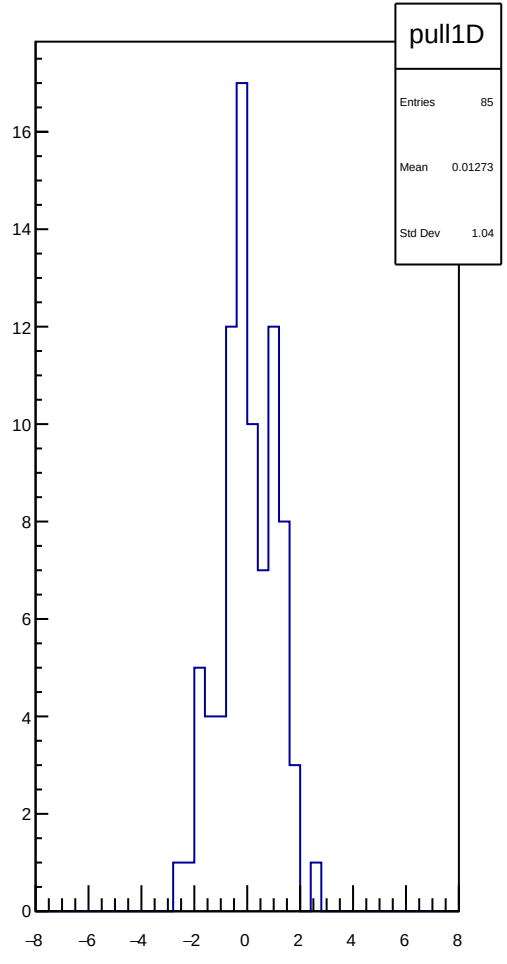

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.331e+04 / 84
p0 838.6 ± 0.657
1200
1100
1000
900
800
700

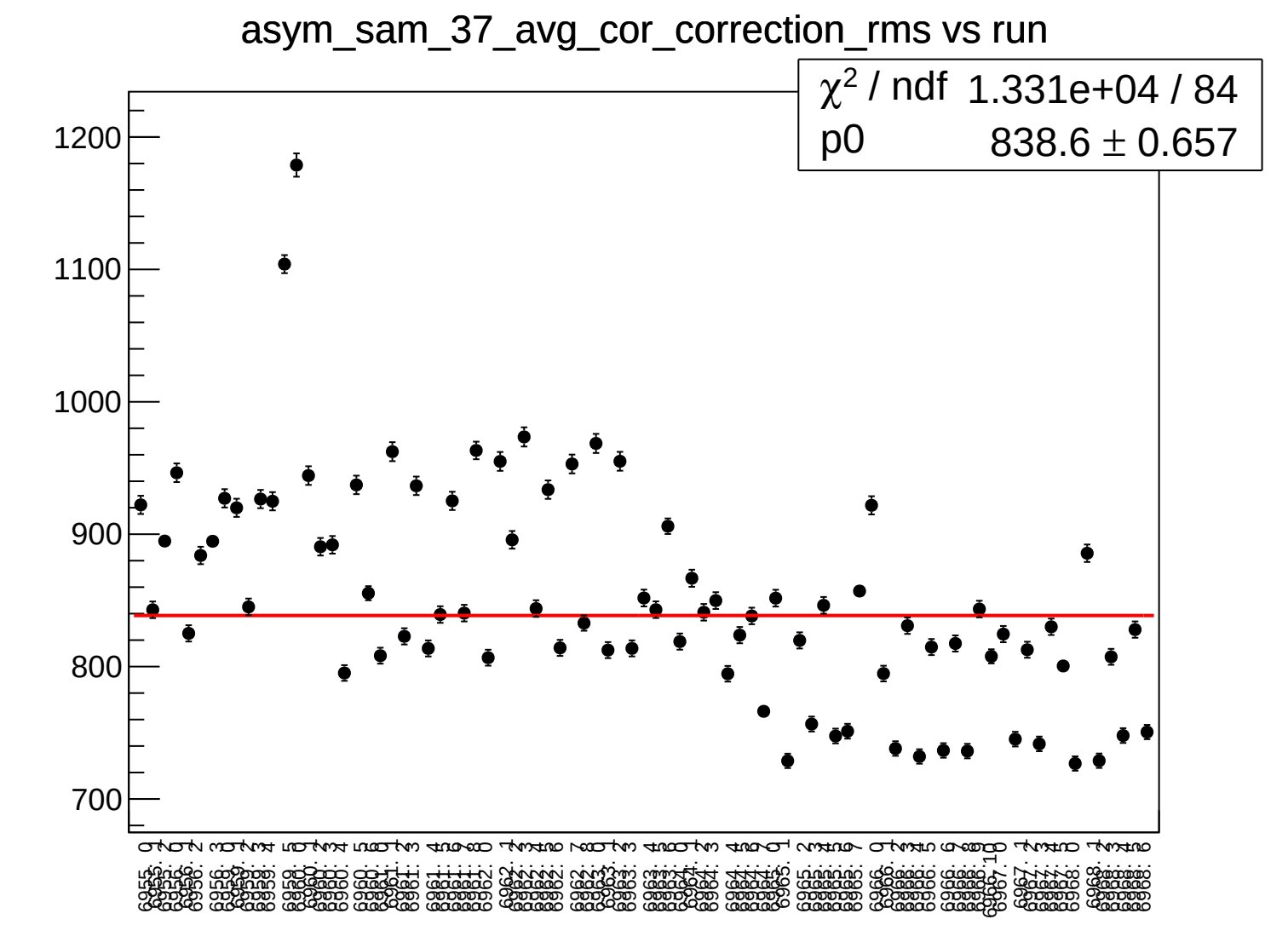

cor_asym_sam_37_avg_mean vs run
χ² / ndf 44.52 / 84
p0 130.9 ± 74.11
pull
Entries 85
Mean −471
Std Dev 0

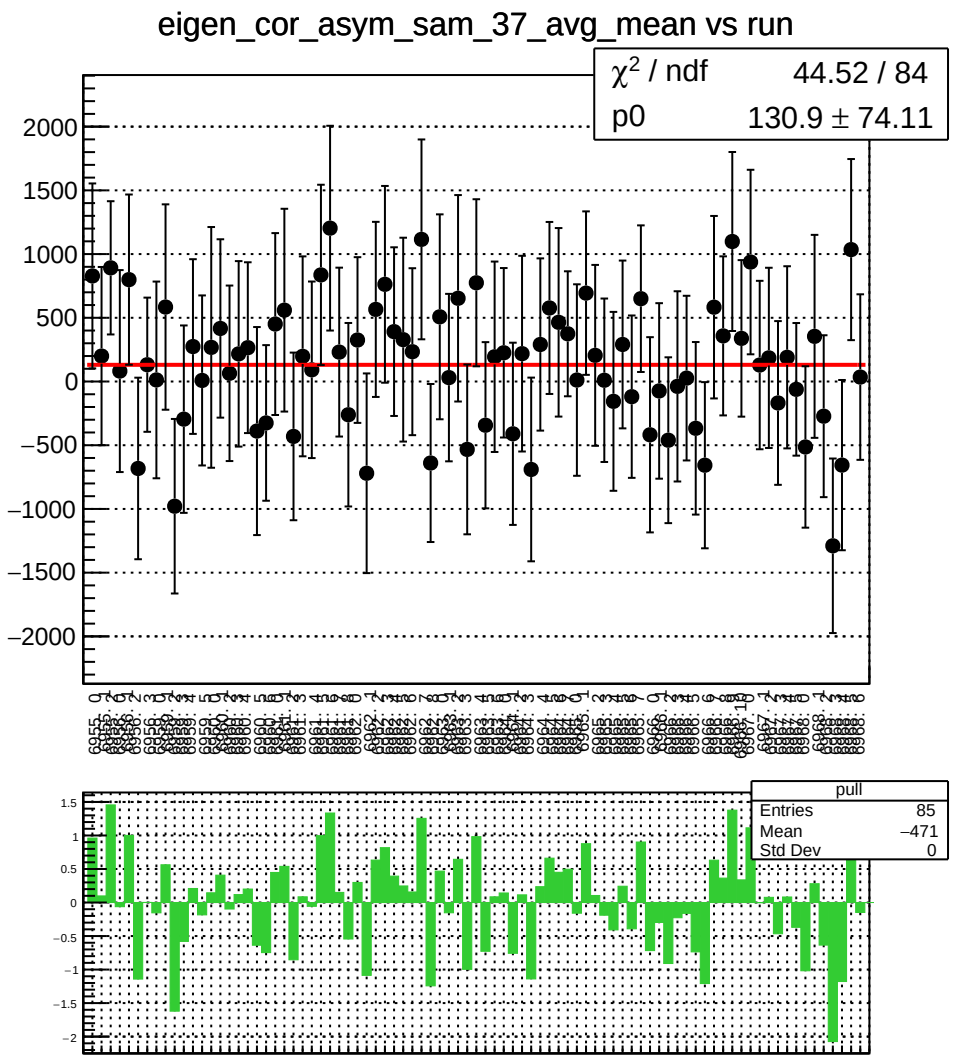

pull1D
Entries 85
Mean 0.00463
Std Dev 0.7237

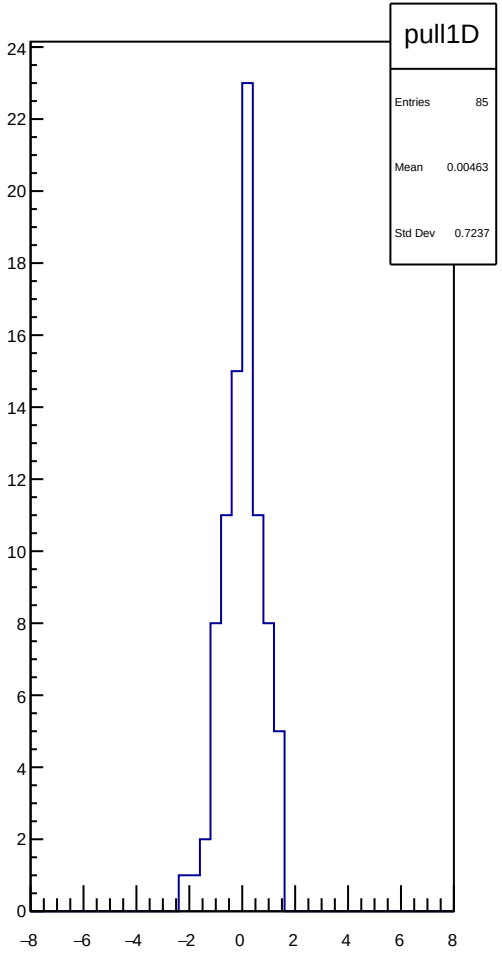

cor_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 1.021e+04 / 84
p0 66.95 ± 0.0524
90
85
80
75
70
65
60

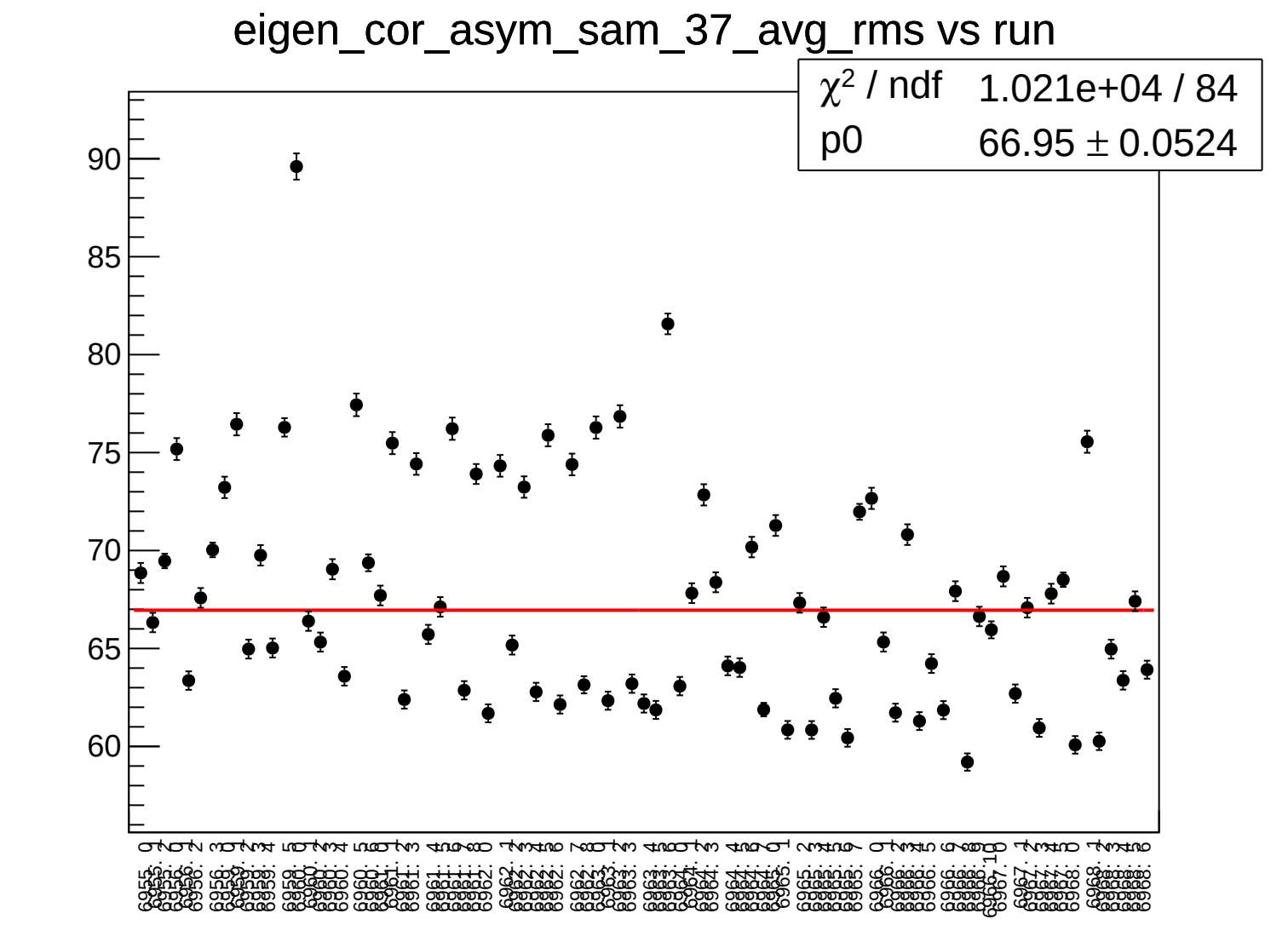

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 91.93 / 84
p0 −269.3 ± 929.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −28.23
Std Dev 0
3
2
1
0
−1
−2

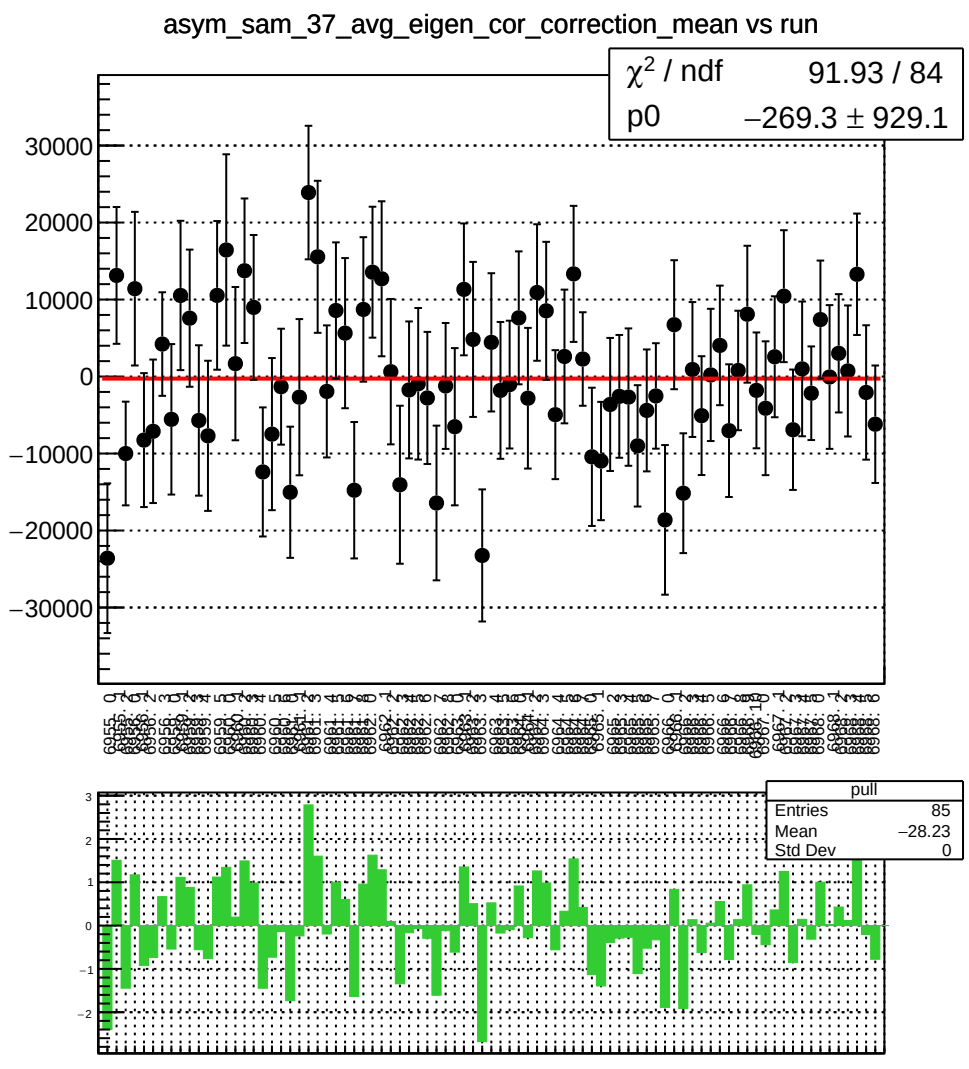

pull1D
Entries 85
Mean 0.01273
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

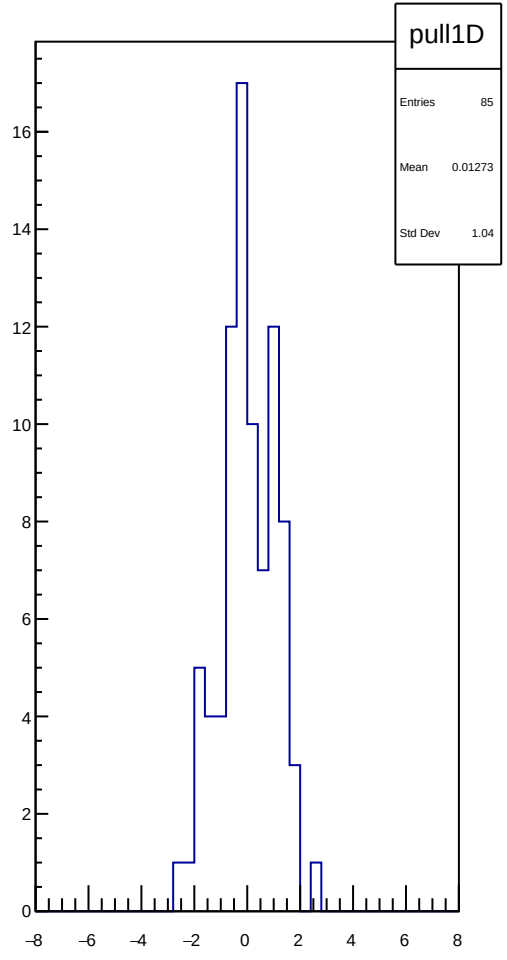

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.331e+04 / 84
p0 838.6 ± 0.657
1200
1100
1000
900
800
700

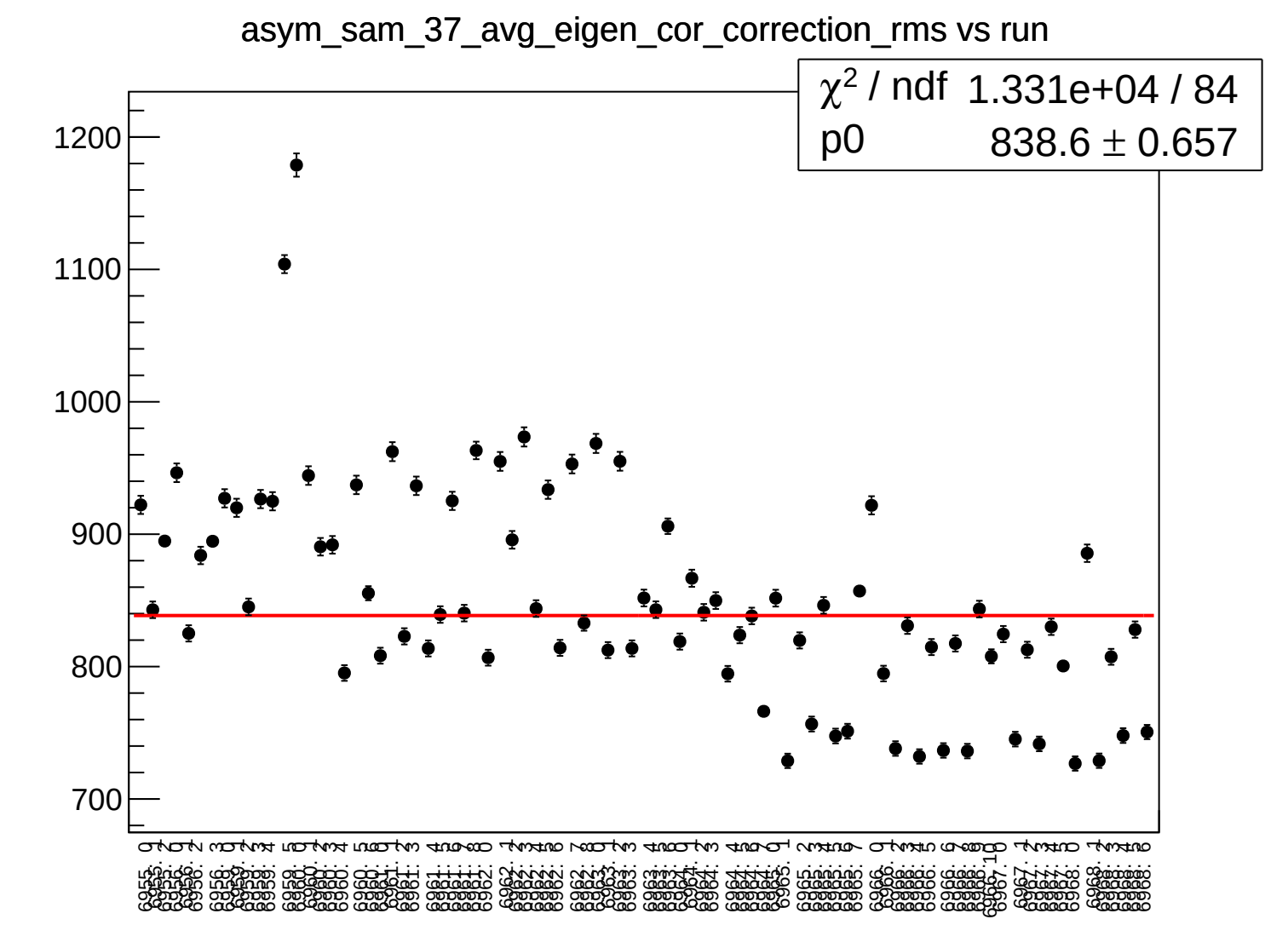

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 44.52 / 84
p0 130.9 ± 74.11
pull
Entries 85
Mean −471
Std Dev 0

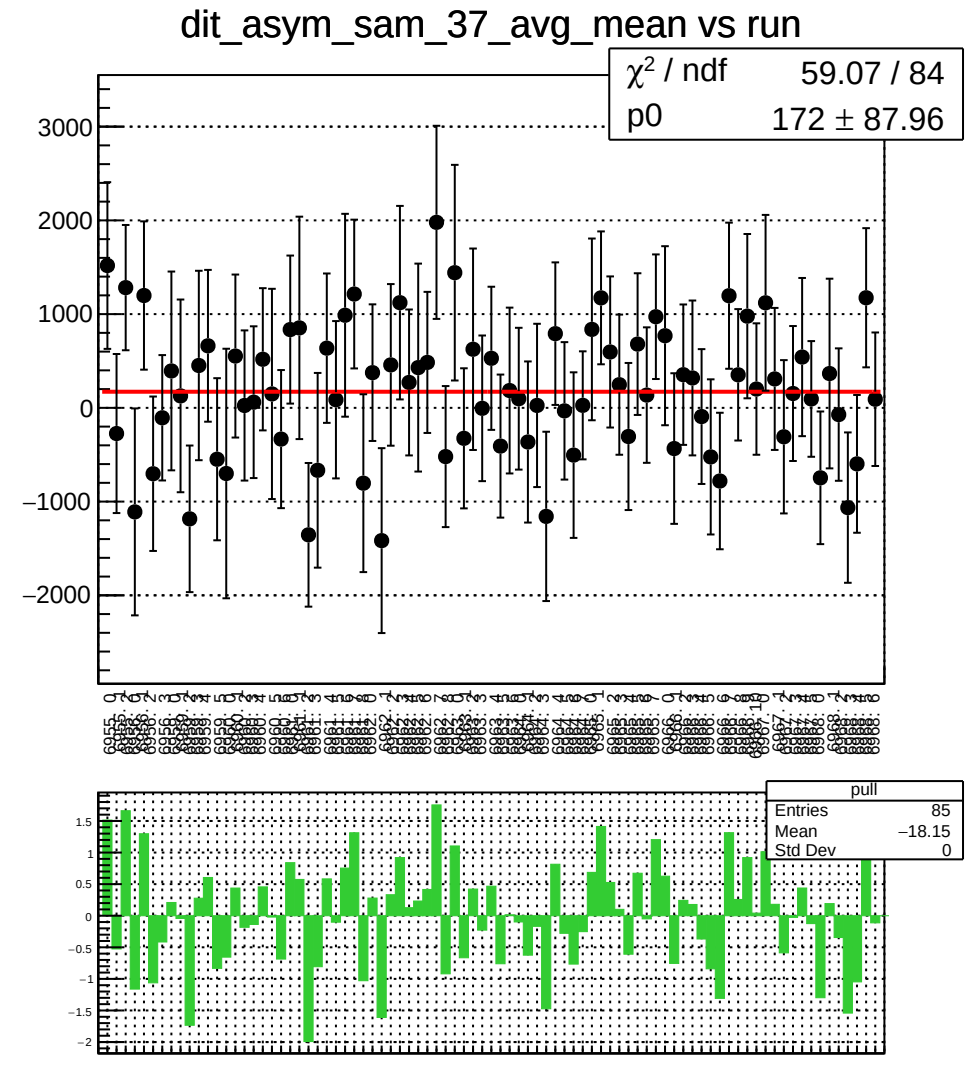

pull1D
Entries 85
Mean 0.00463
Std Dev 0.7237

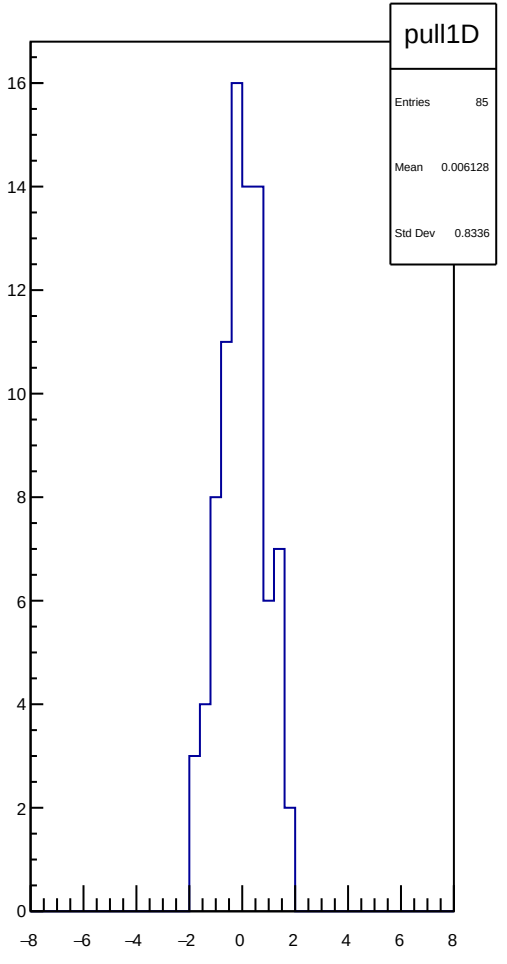

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.021e+04 / 84
p0 66.95 ± 0.0524
90
85
80
75
70
65
60

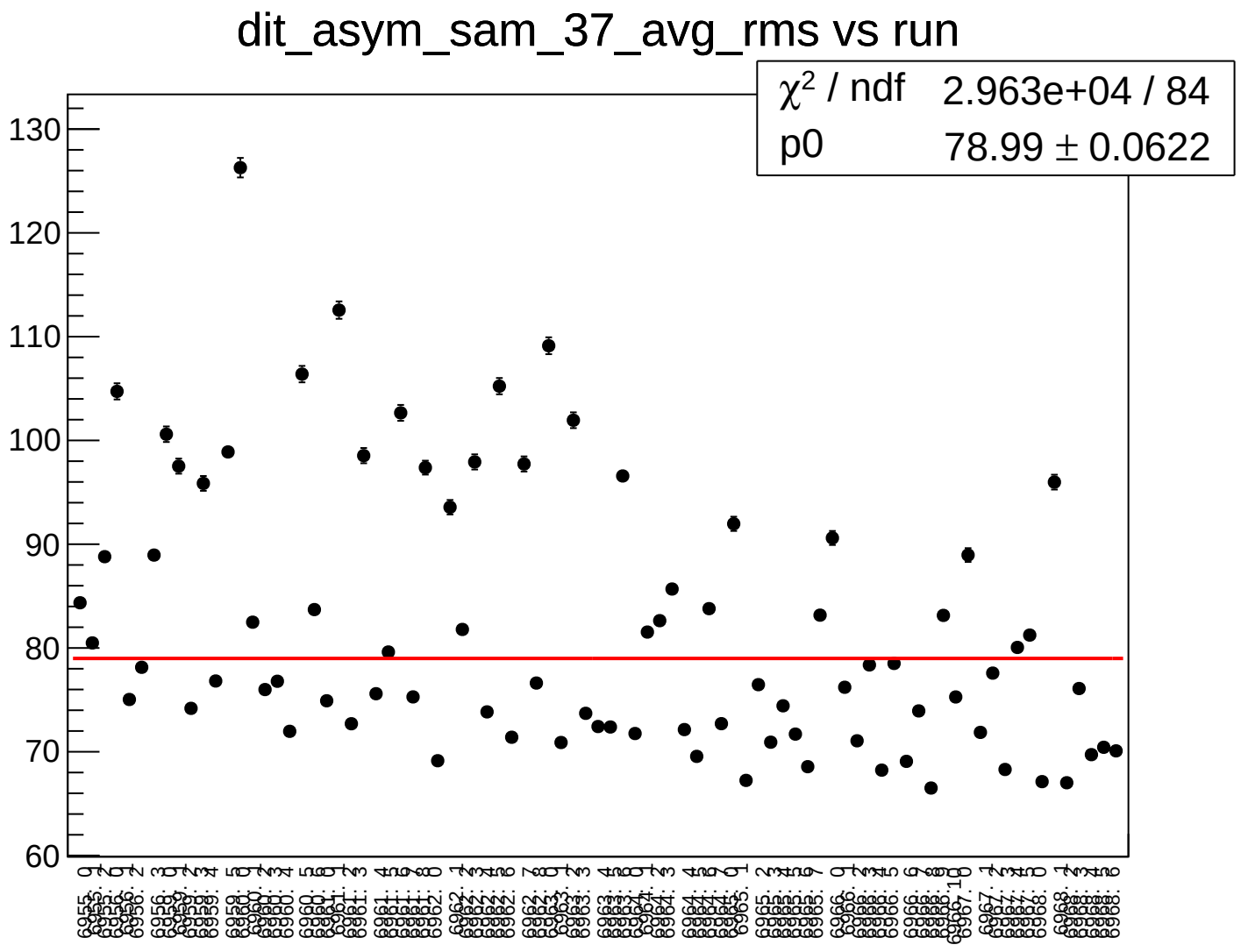

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.93 / 84
p0 −269.3 ± 929.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −28.23
Std Dev 0
3
2
1
0
−1
−2

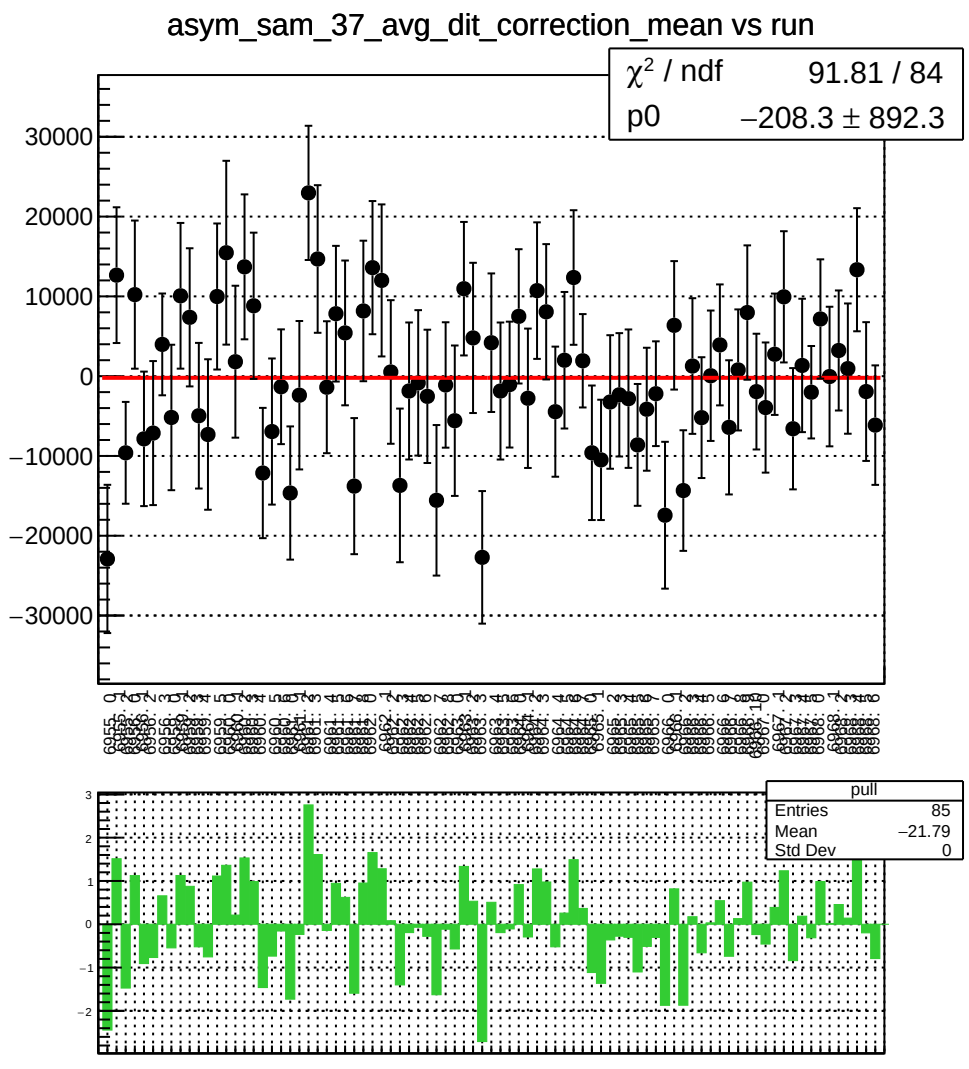

pull1D
Entries 85
Mean 0.01273
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

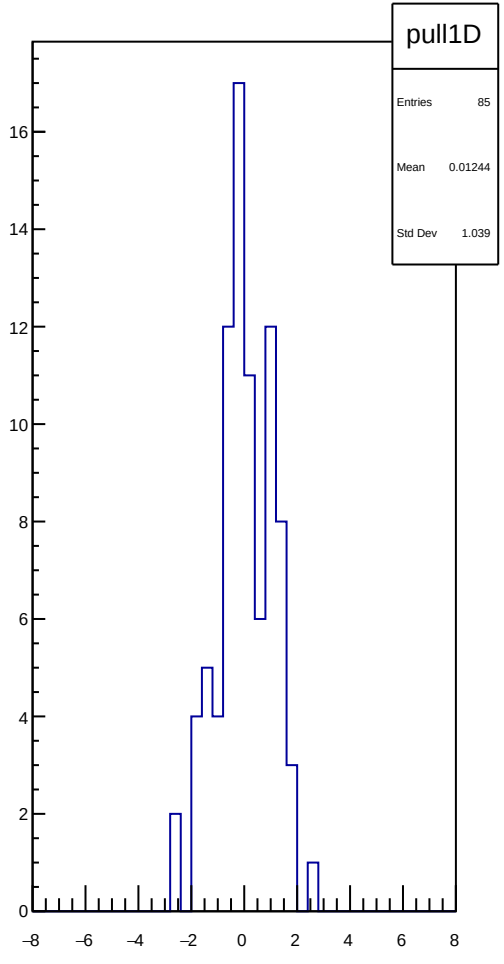

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.331e+04 / 84
p0 838.6 ± 0.657
1200
1100
1000
900
800
700

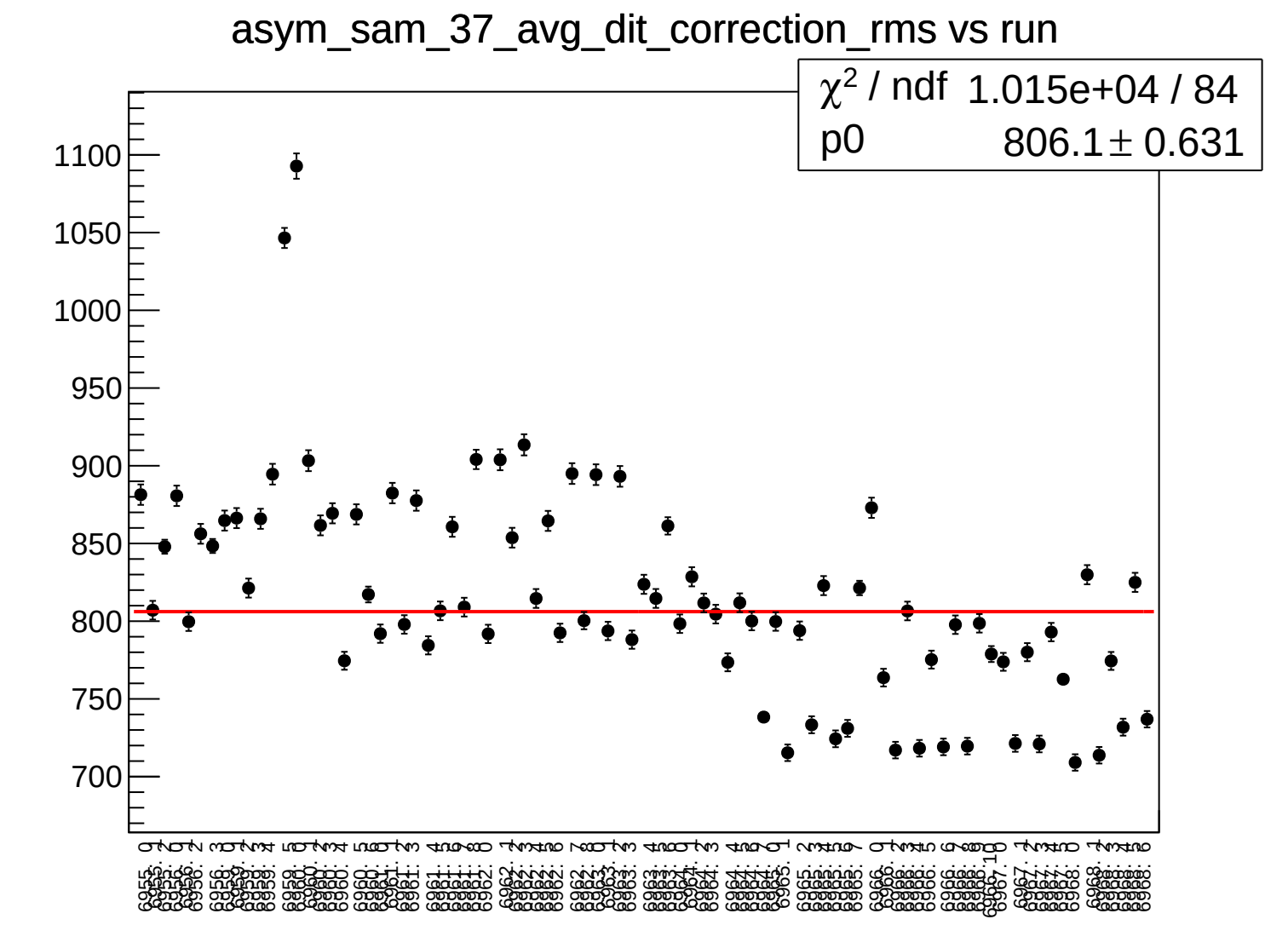

dit_asym_sam_37_avg_mean vs run
χ² / ndf 59.07 / 84
p0 172 ± 87.96
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −18.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

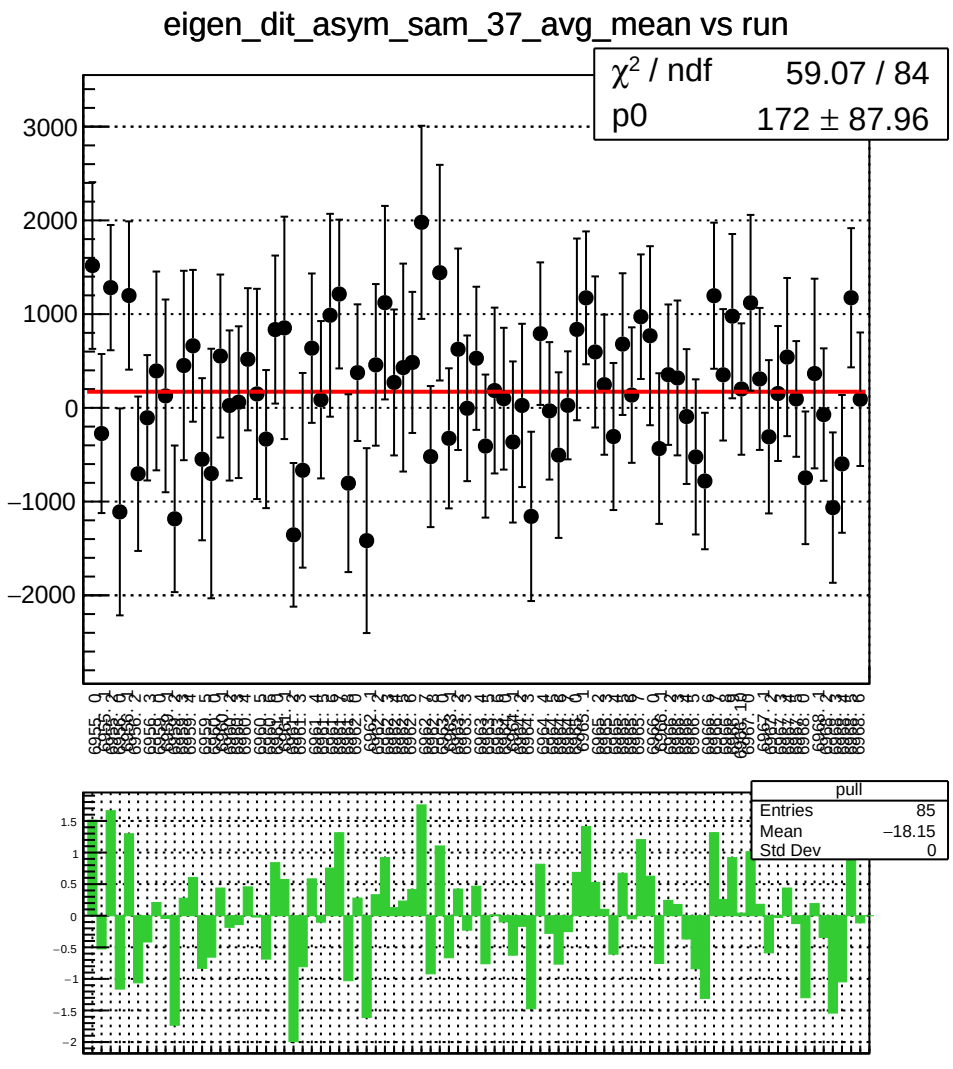

pull1D
Entries 85
Mean 0.006128
Std Dev 0.8336
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

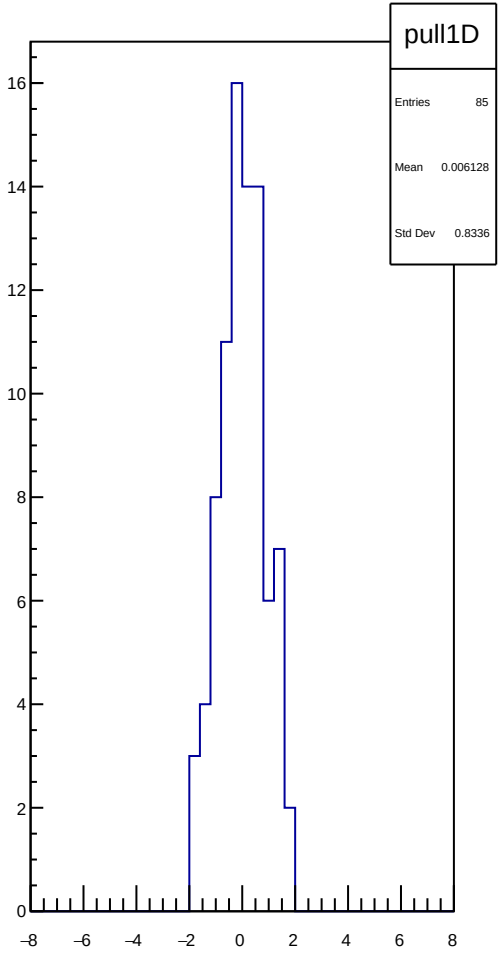

dit_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 2.963e+04 / 84
p0 78.99 ± 0.0622
130
120
110
100
90
80
70
60

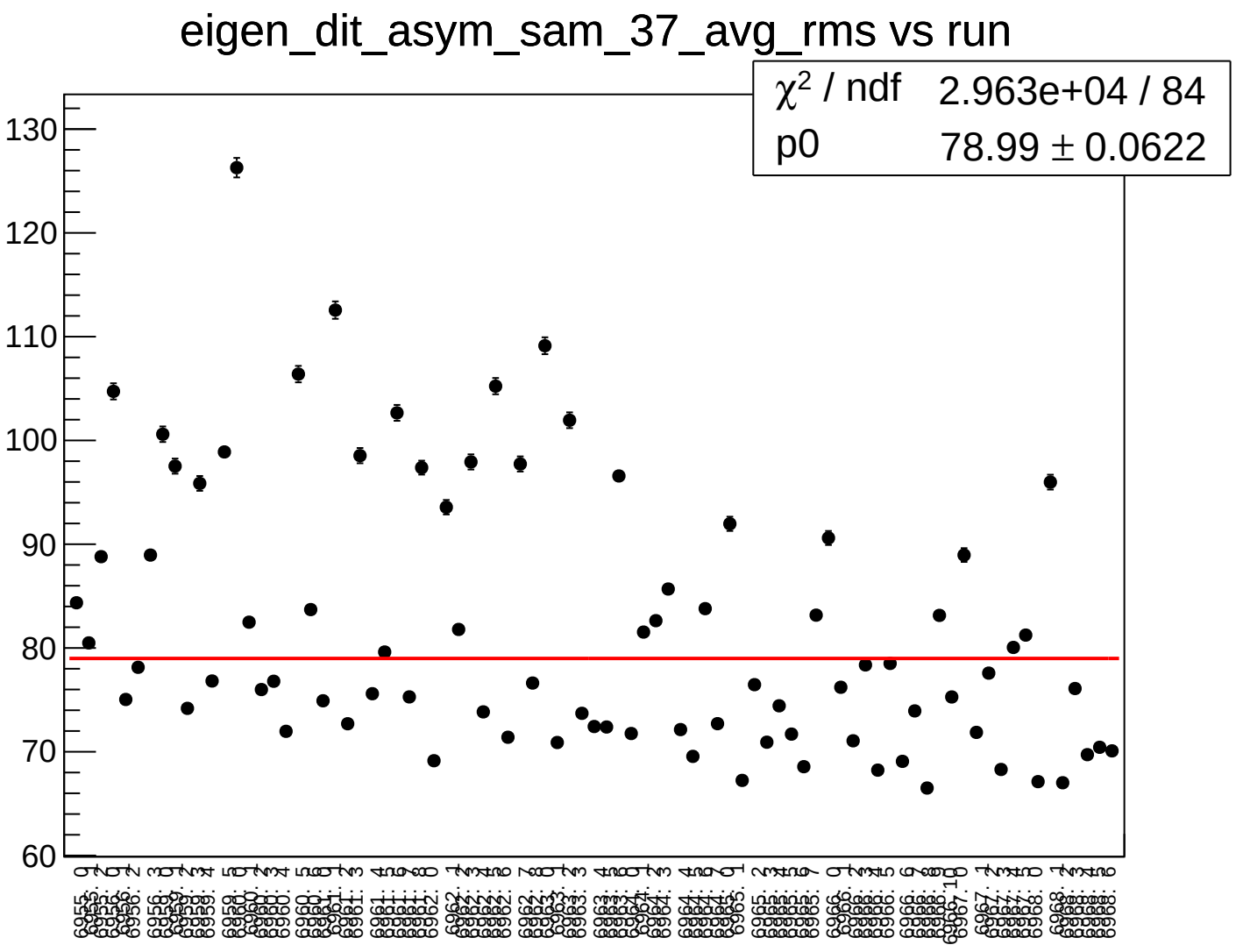

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 91.81 / 84
p0 −208.3 ± 892.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −21.79
Std Dev 0
3
2
1
0
−1
−2

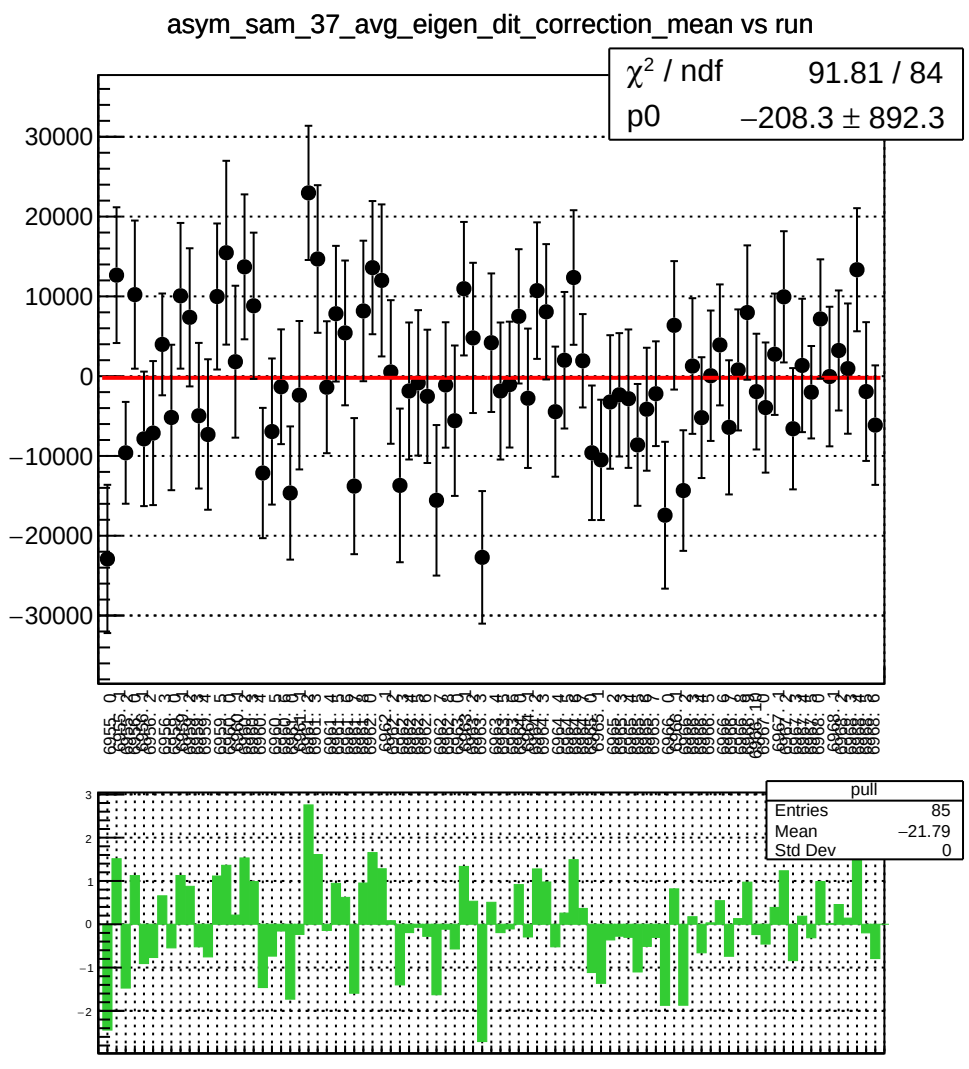

pull1D
Entries 85
Mean 0.01244
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

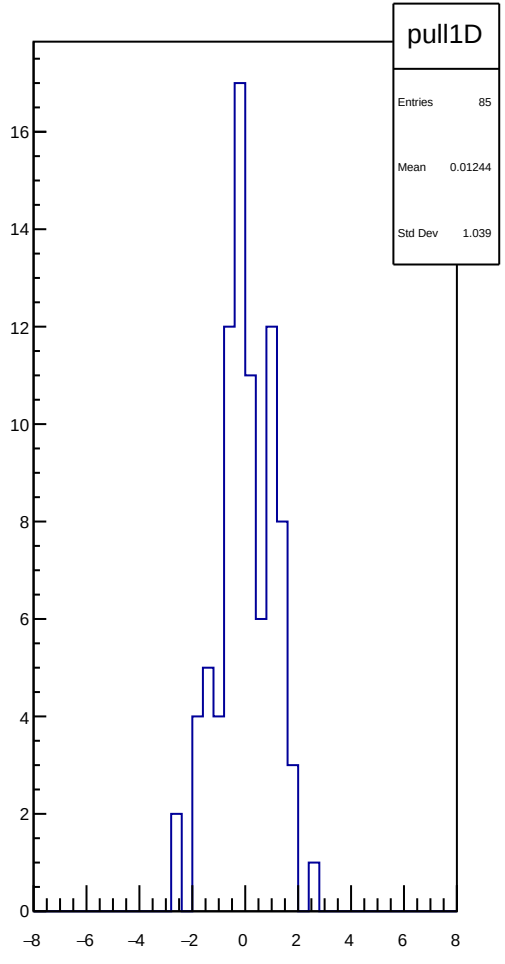

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.015e+04 / 84
p0 806.1 ± 0.631
1100
1050
1000
950
900
850
800
750
700

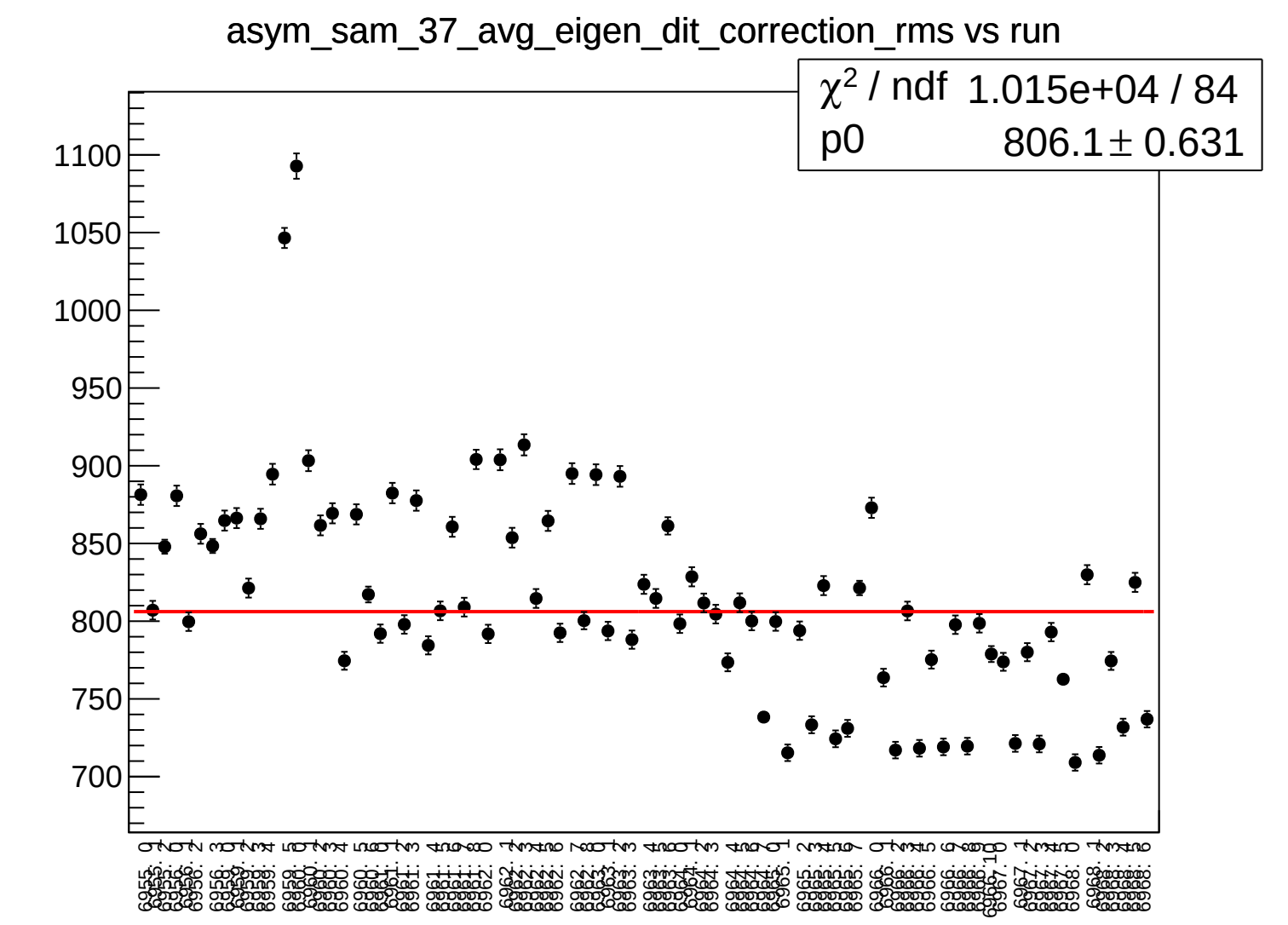

eigen_dit_asym_sam_37_avg_mean vs run
$\chi^2$ / ndf 59.07 / 84
p0 172 ± 87.96
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −18.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

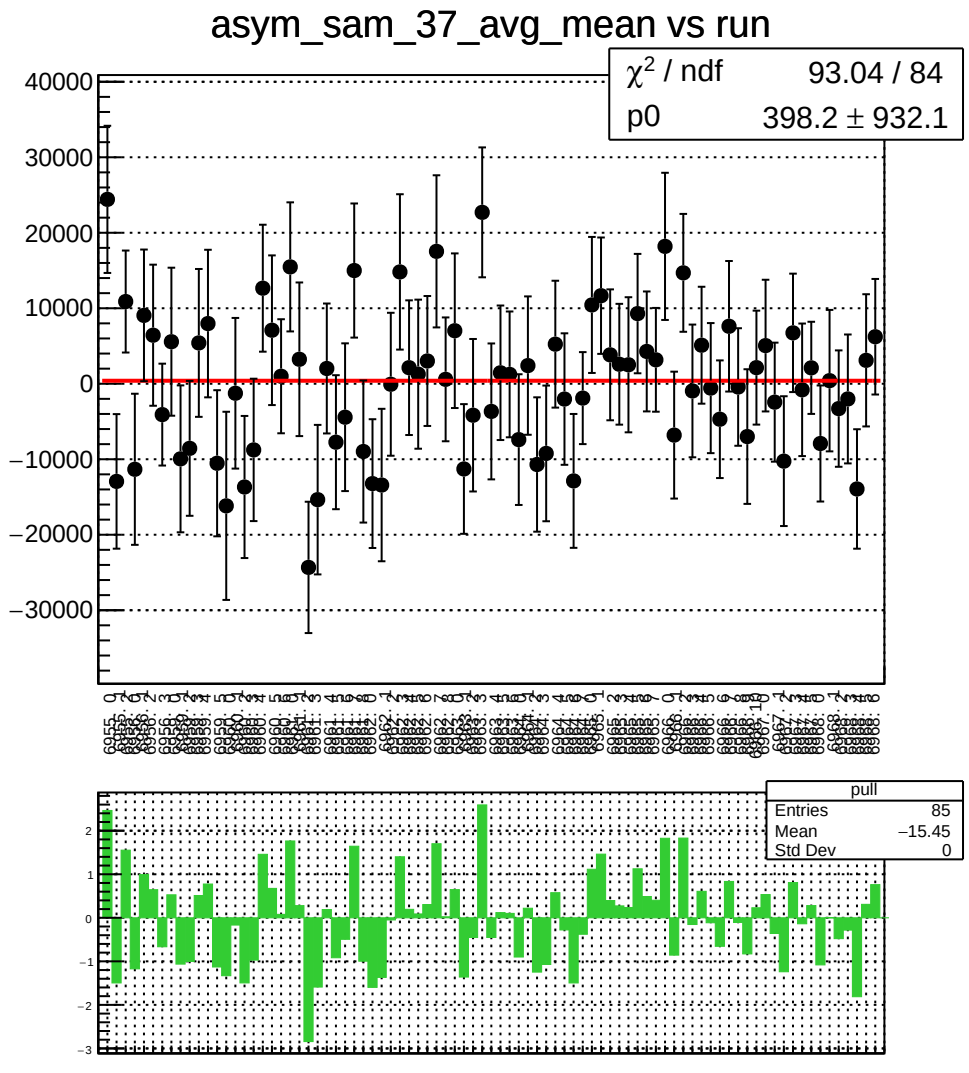

pull1D
Entries 85
Mean 0.006128
Std Dev 0.8336
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

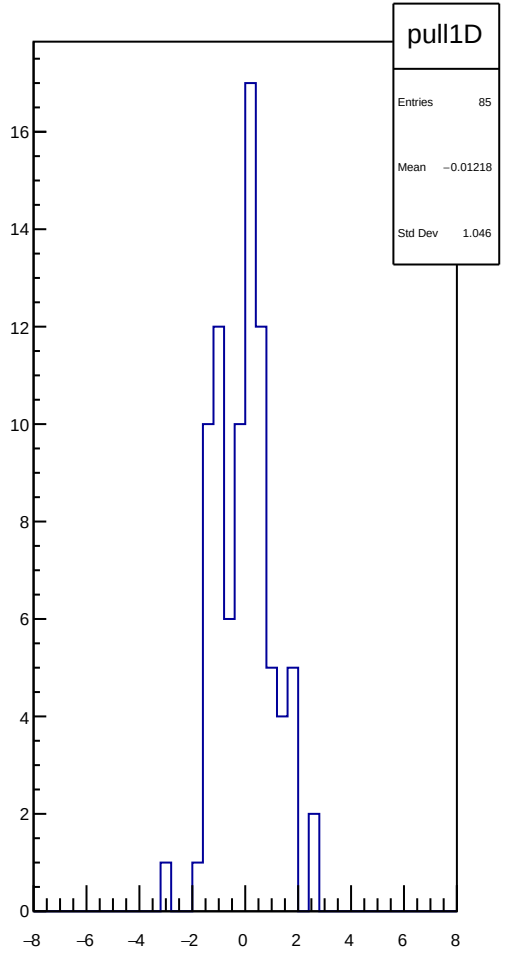

eigen_dit_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 2.963e+04 / 84
p0 78.99 ± 0.0622
130
120
110
100
90
80
70
60

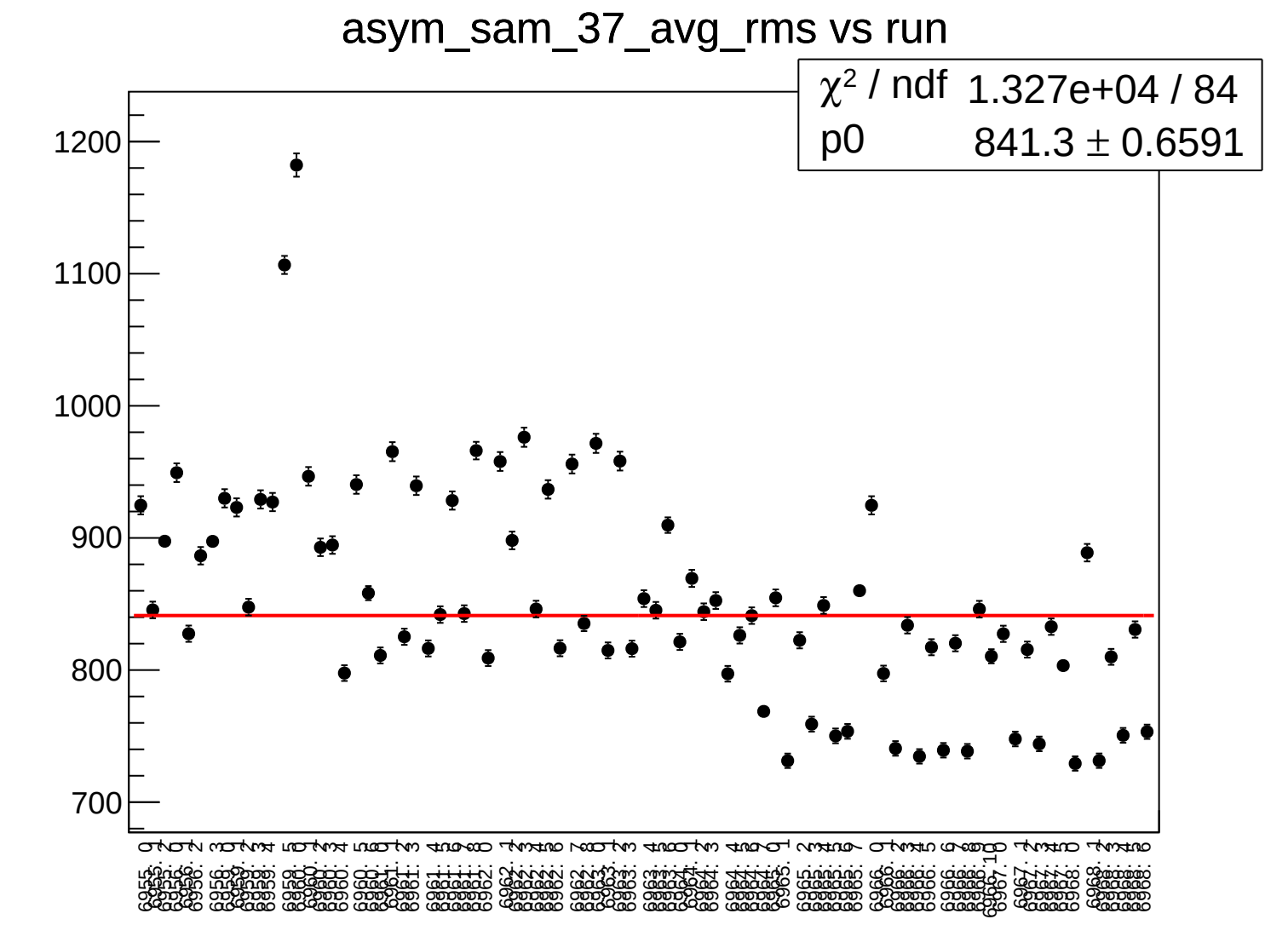

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.81 / 84
p0 −208.3 ± 892.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −21.79
Std Dev 0
3
2
1
0
−1
−2

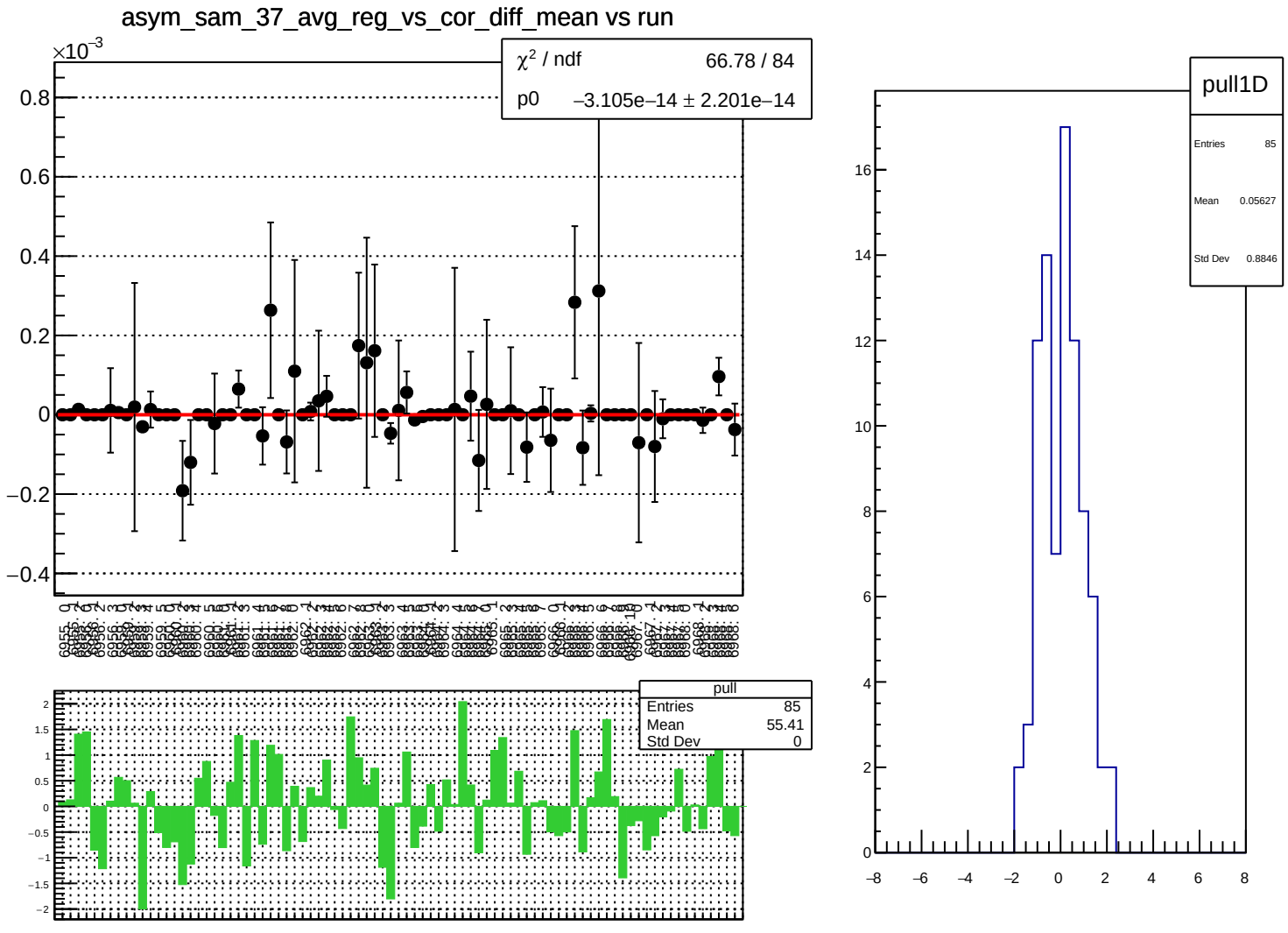

pull1D
Entries 85
Mean 0.01244
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

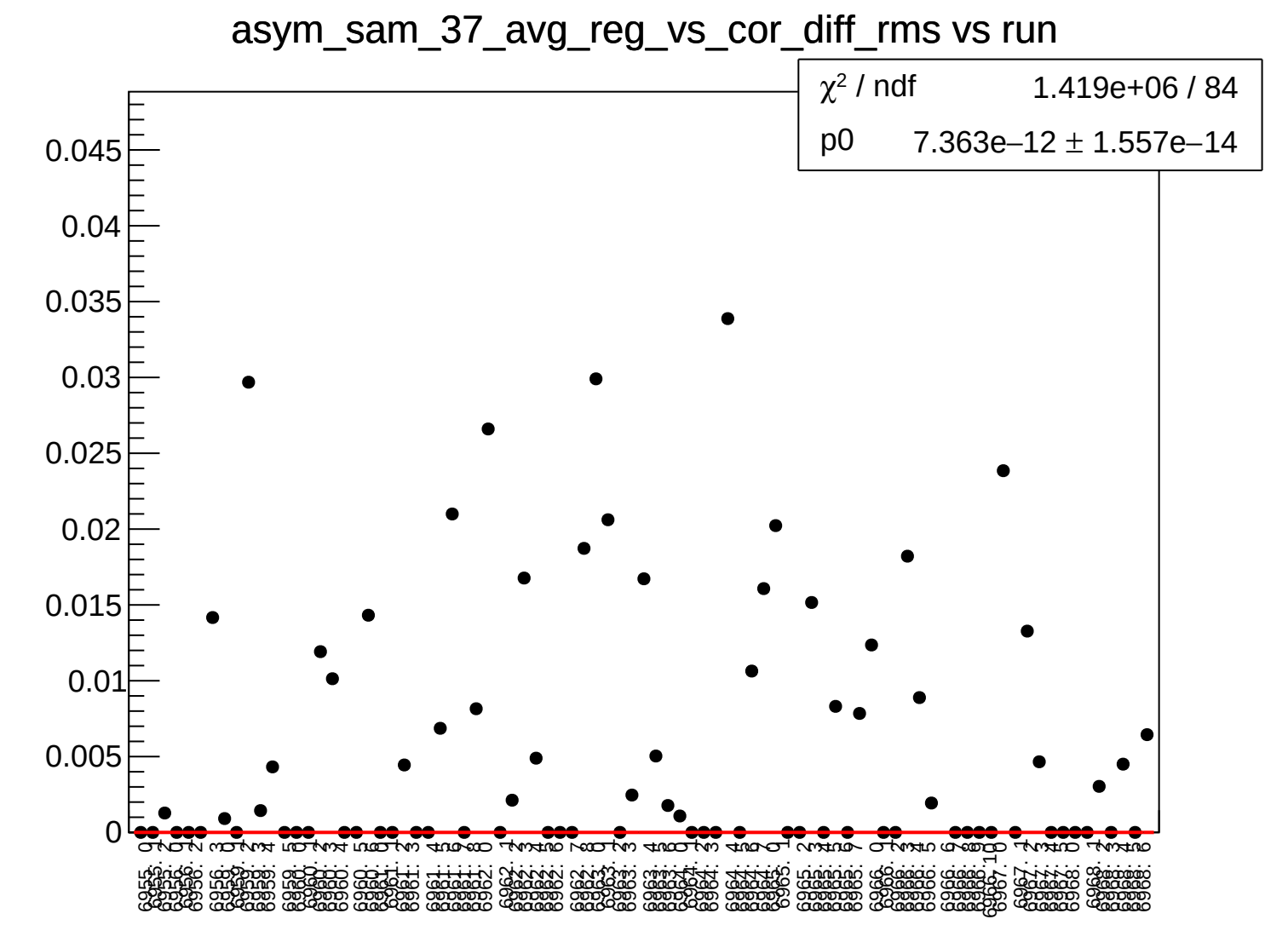

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.015e+04 / 84
p0 806.1 ± 0.631
1100
1050
1000
950
900
850
800
750
700

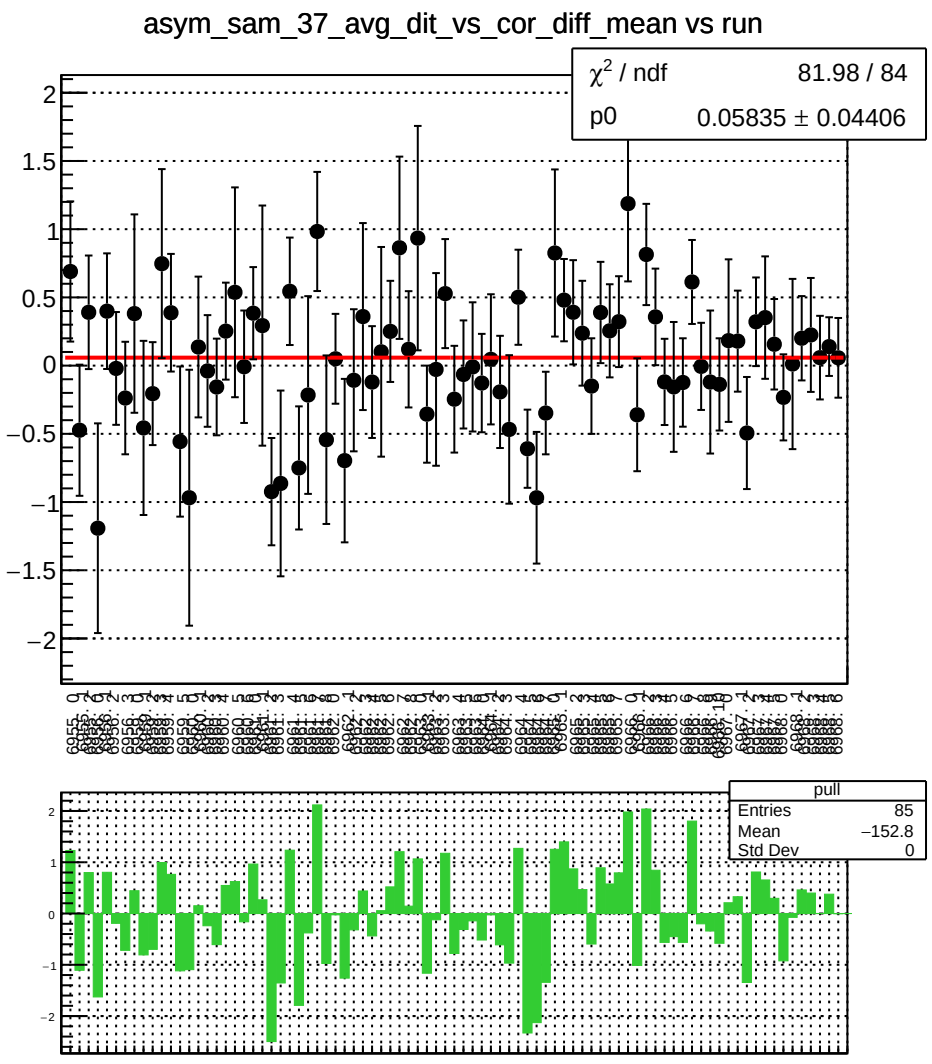

asym_sam_37_avg_mean vs run
χ² / ndf 93.04 / 84
p0 398.2 ± 932.1
pull
Entries 85
Mean −15.45
Std Dev 0

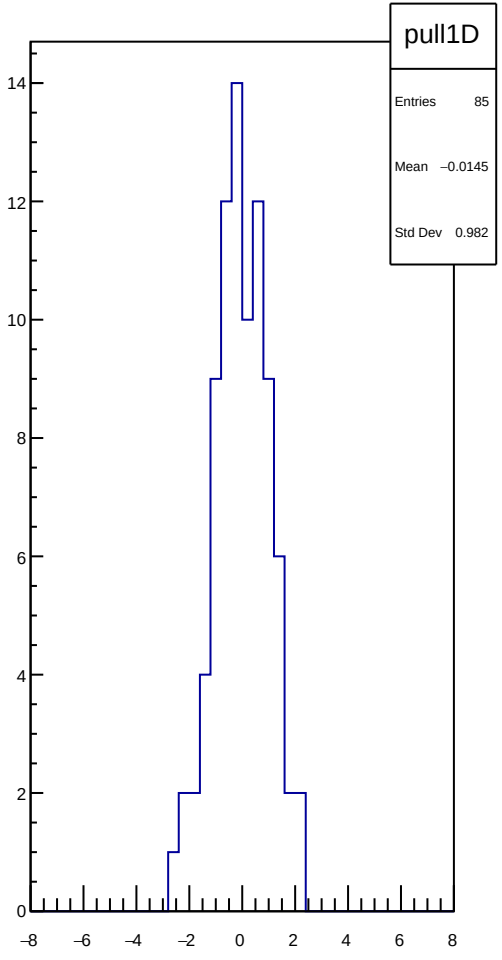

pull1D
Entries 85
Mean −0.01218
Std Dev 1.046

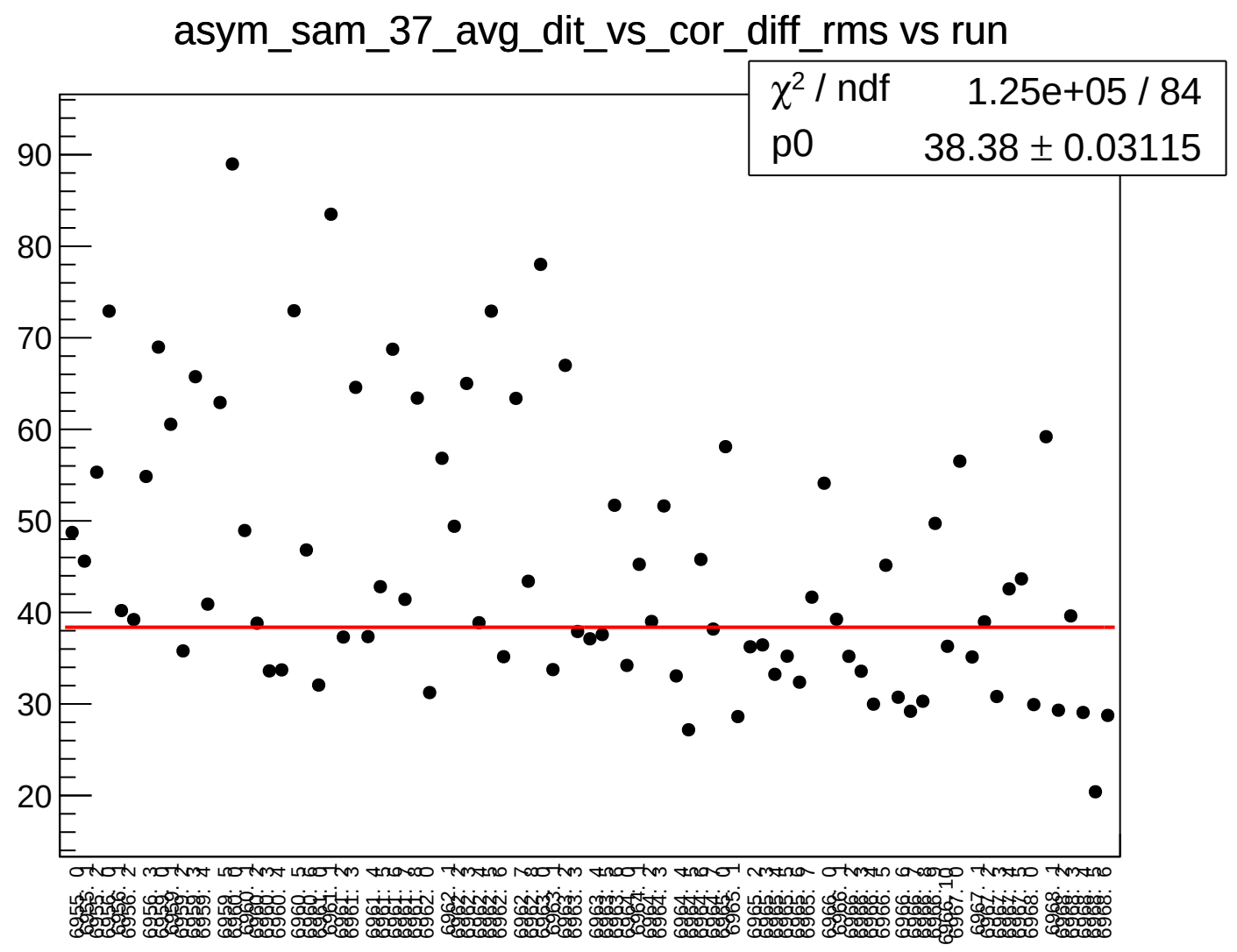

asym_sam_37_avg_rms vs run
χ² / ndf 1.327e+04 / 84
p0 841.3 ± 0.6591
1200
1100
1000
900
800
700

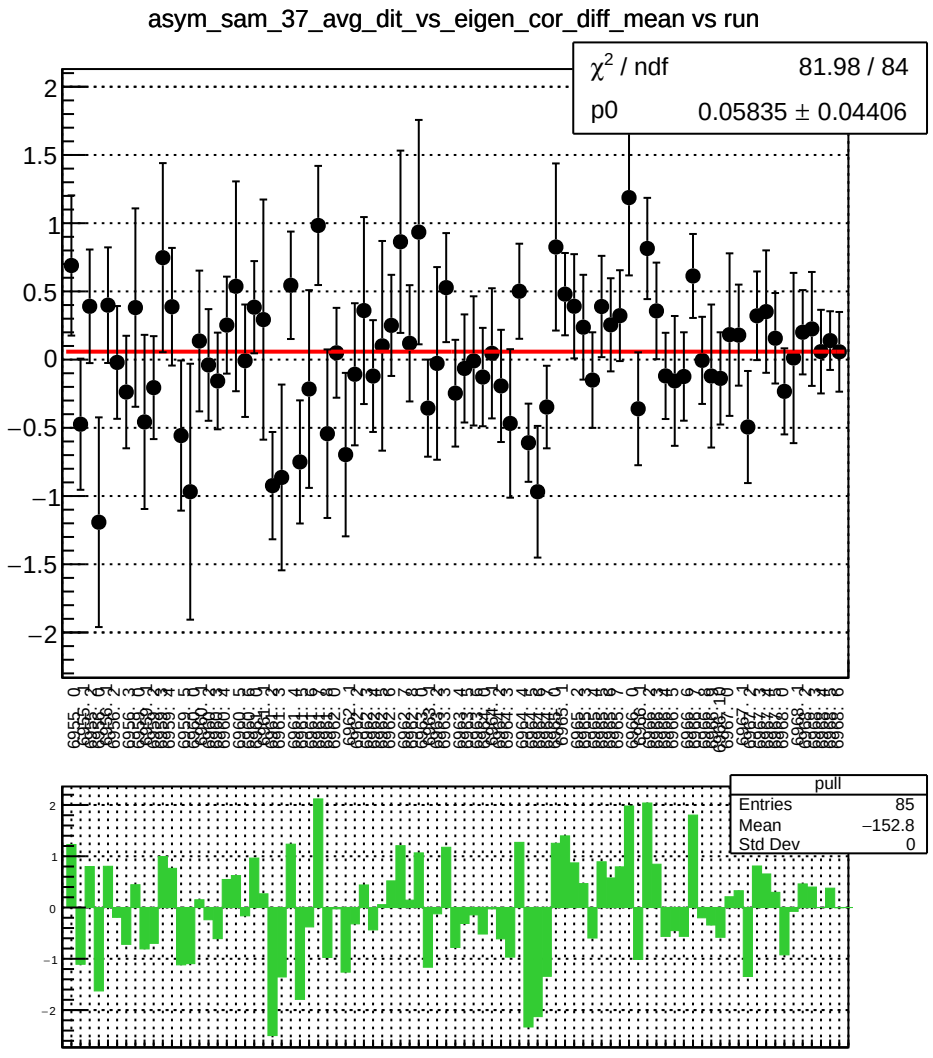

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 66.78 / 84
p0 −3.105e−14 ± 2.201e−14
pull
Entries 85
Mean 55.41
Std Dev 0
pull1D
Entries 85
Mean 0.05627
Std Dev 0.8846

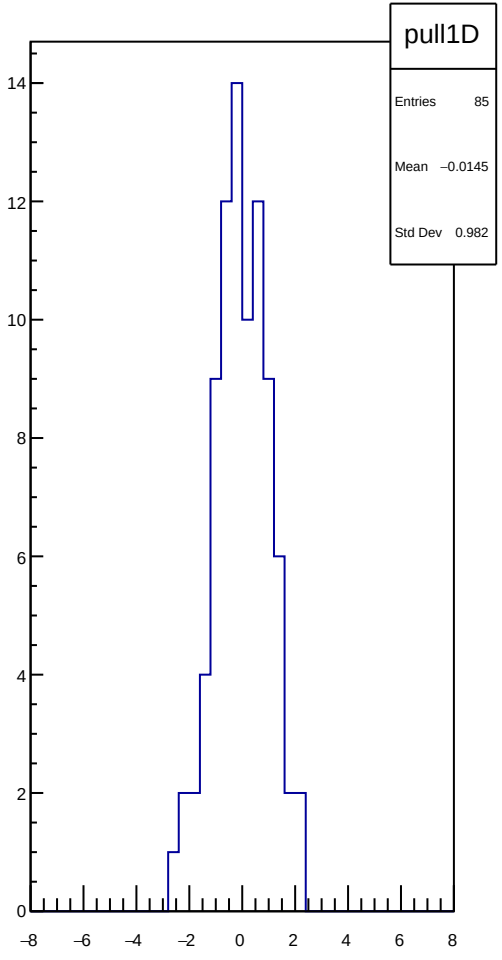

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.419e+06 / 84
p0 7.363e−12 ± 1.557e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

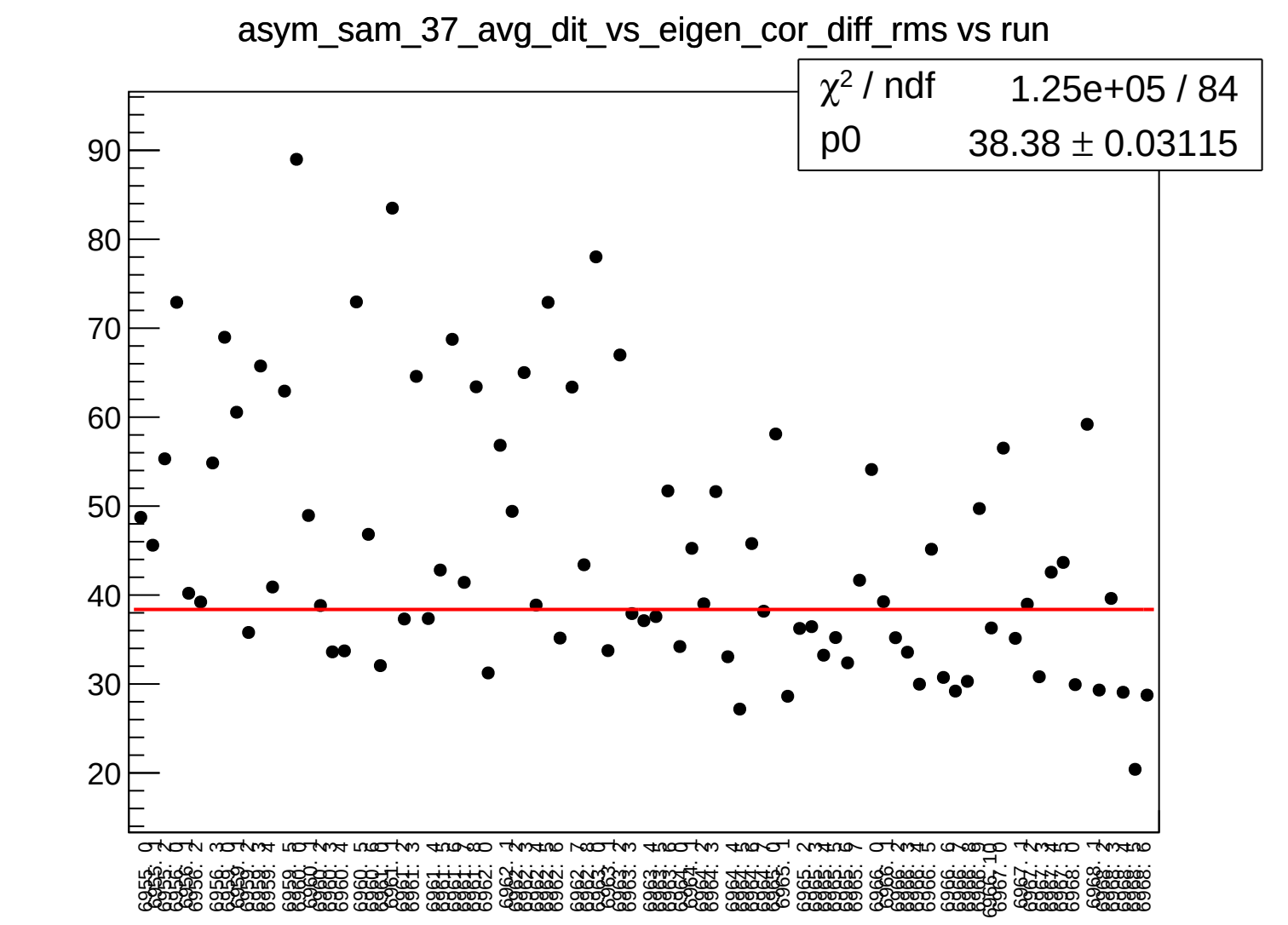

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.98 / 84
p0 0.05835 ± 0.04406
pull
Entries 85
Mean −152.8
Std Dev 0

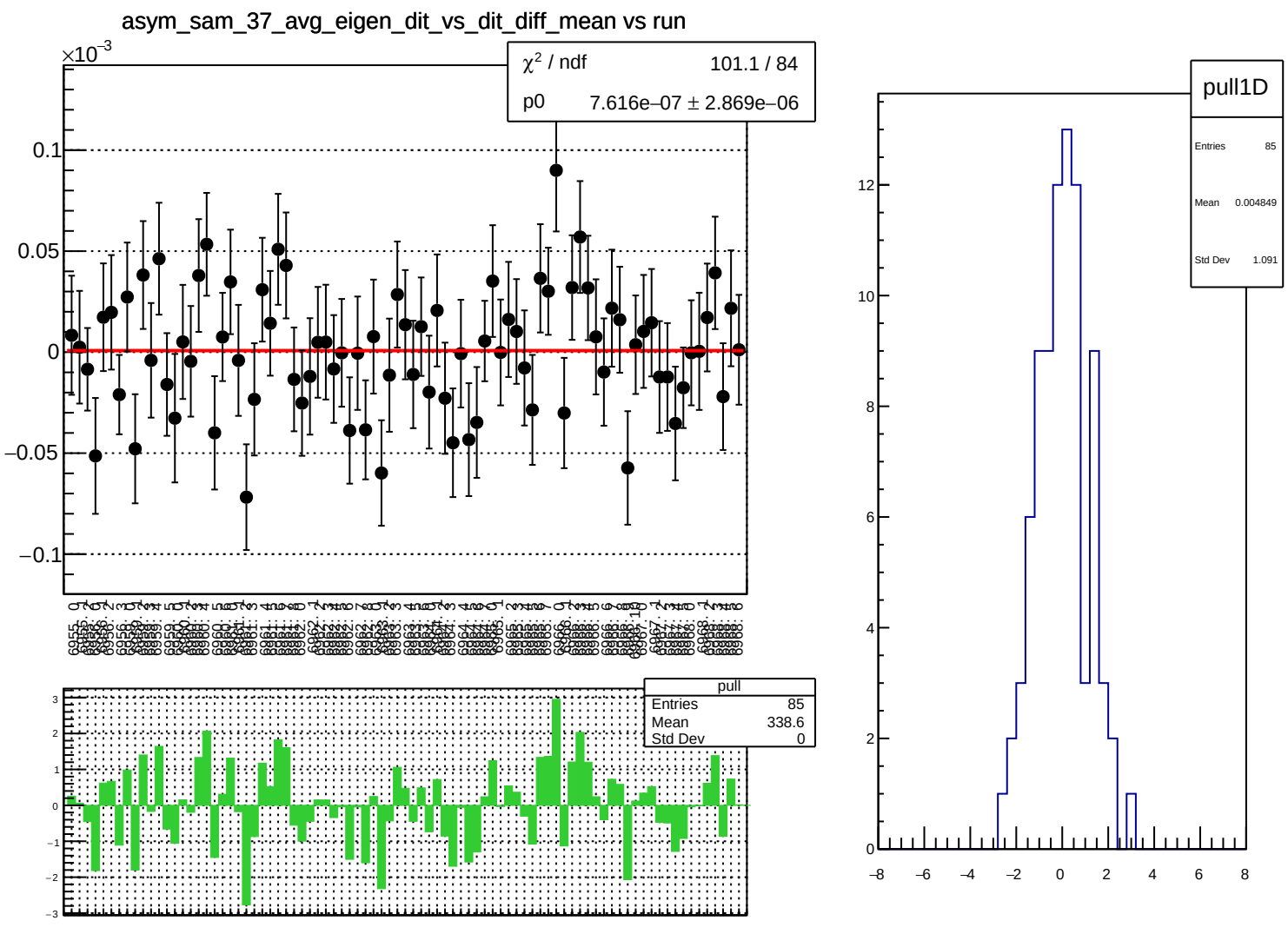

pull1D
Entries 85
Mean −0.0145
Std Dev 0.982

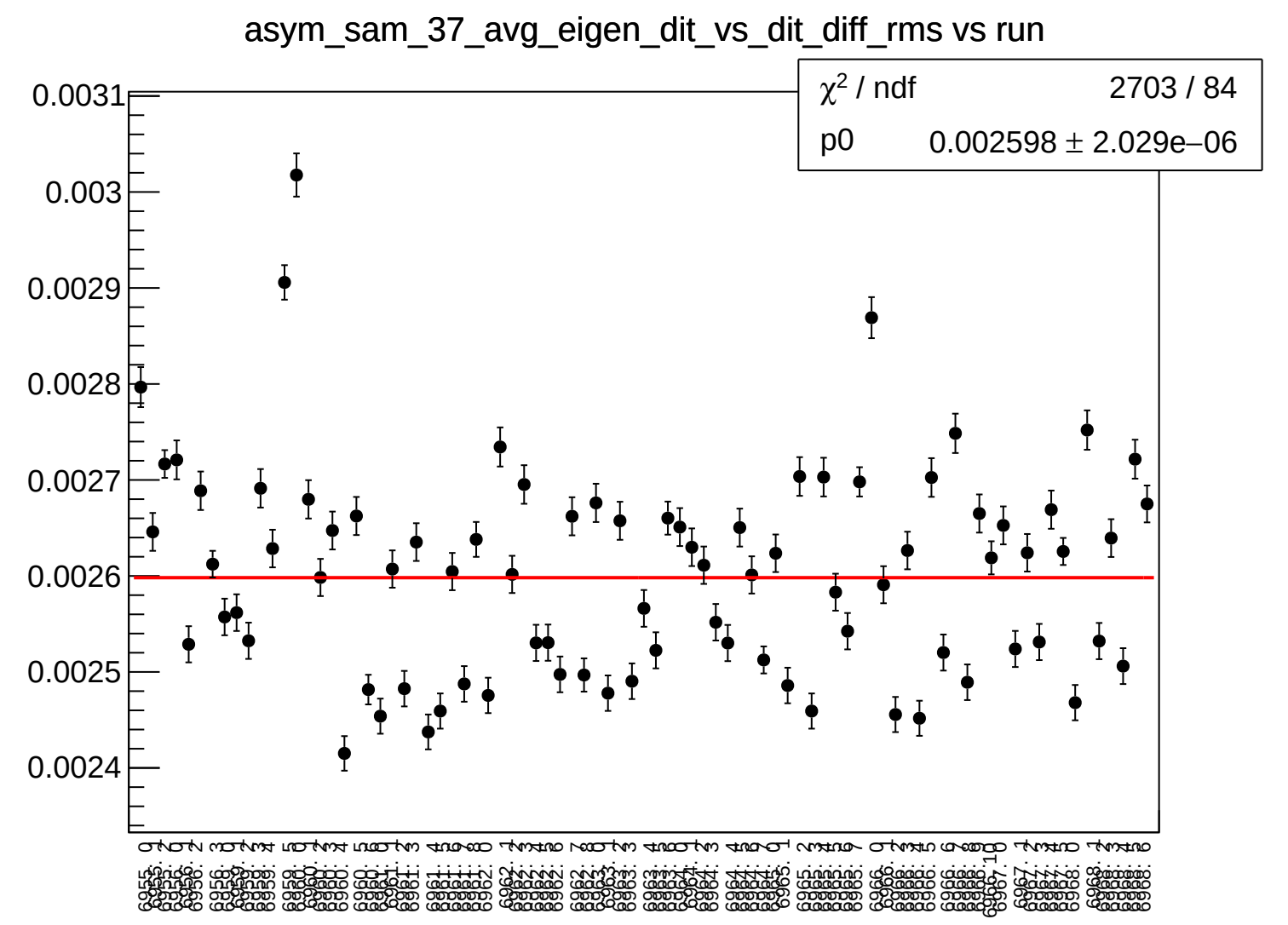

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.25e+05 / 84
p0 38.38 ± 0.03115
90
80
70
60
50
40
30
20

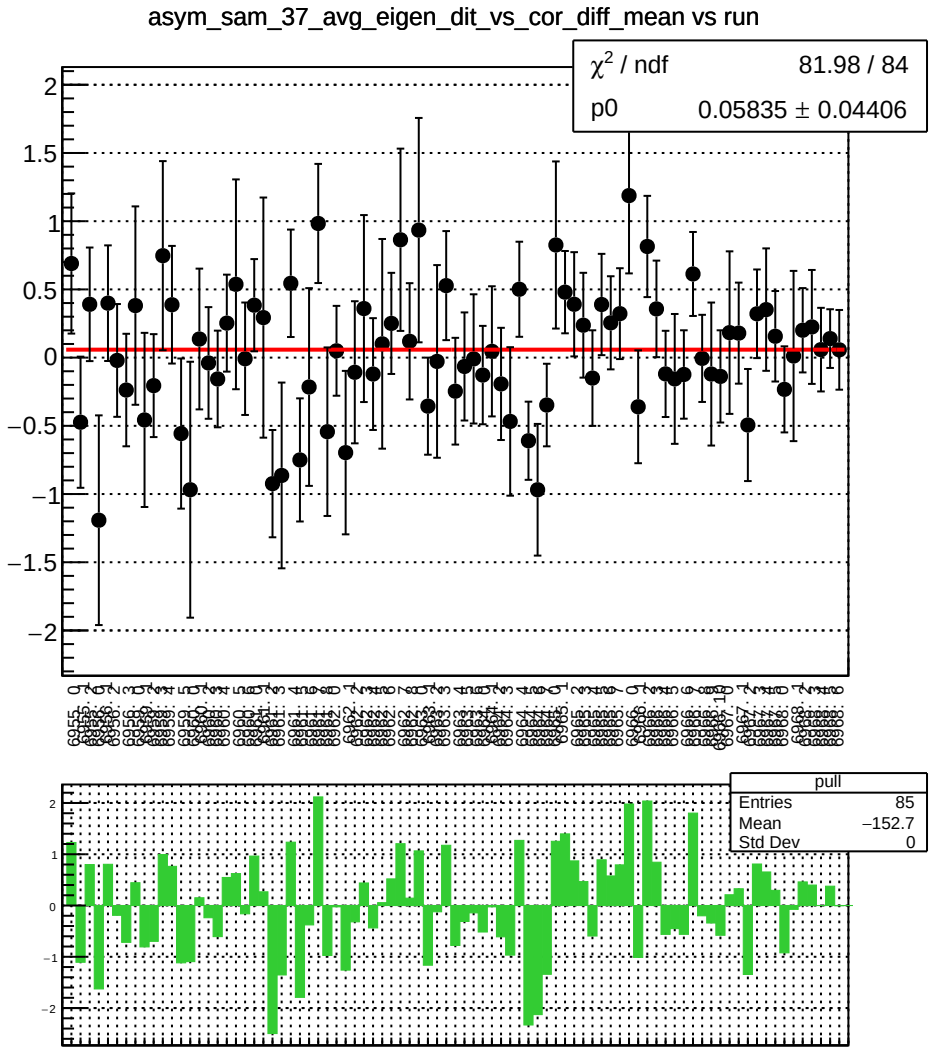

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.98 / 84
p0 0.05835 ± 0.04406
pull
Entries 85
Mean −152.8
Std Dev 0

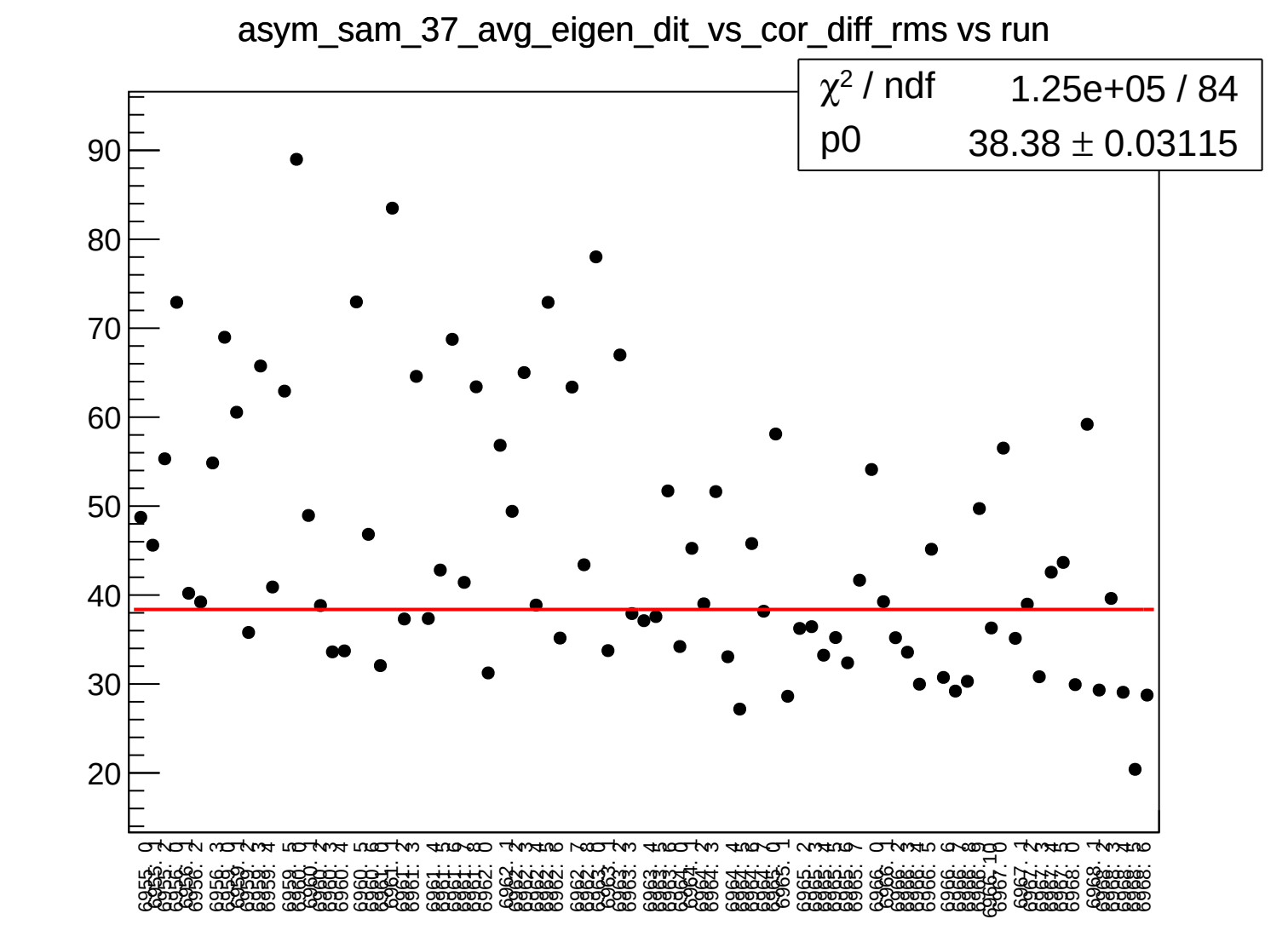

pull1D
Entries 85
Mean −0.0145
Std Dev 0.982

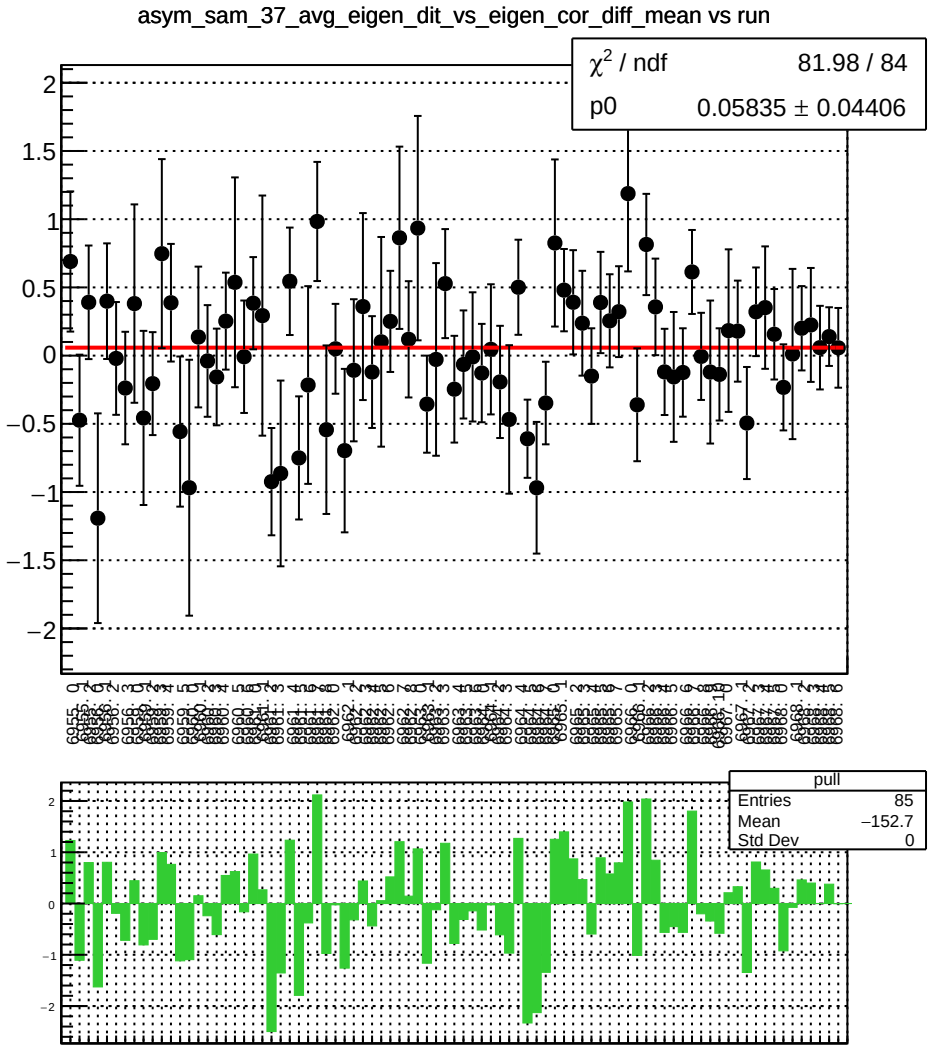

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.25e+05 / 84
p0 38.38 ± 0.03115
90
80
70
60
50
40
30
20

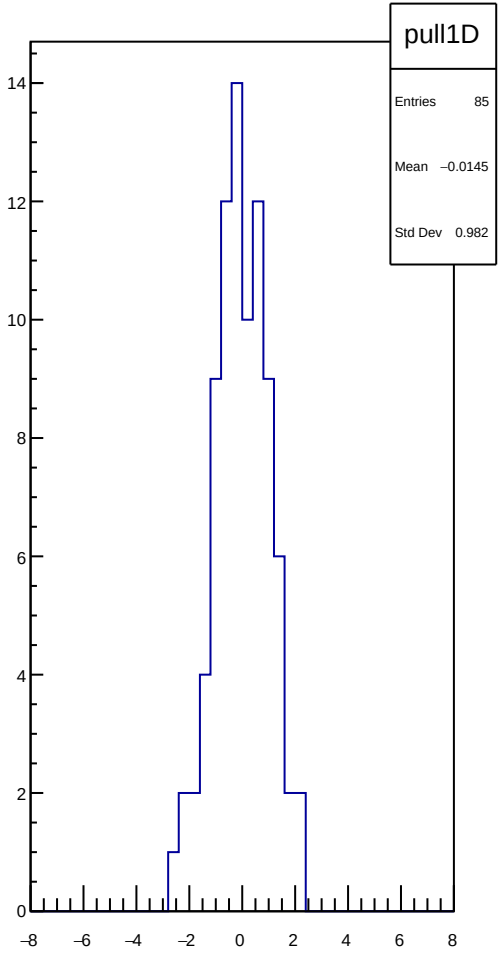

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.1 / 84
p0 7.616e−07 ± 2.869e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 338.6
Std Dev 0
pull1D
Entries 85
Mean 0.004849
Std Dev 1.091
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

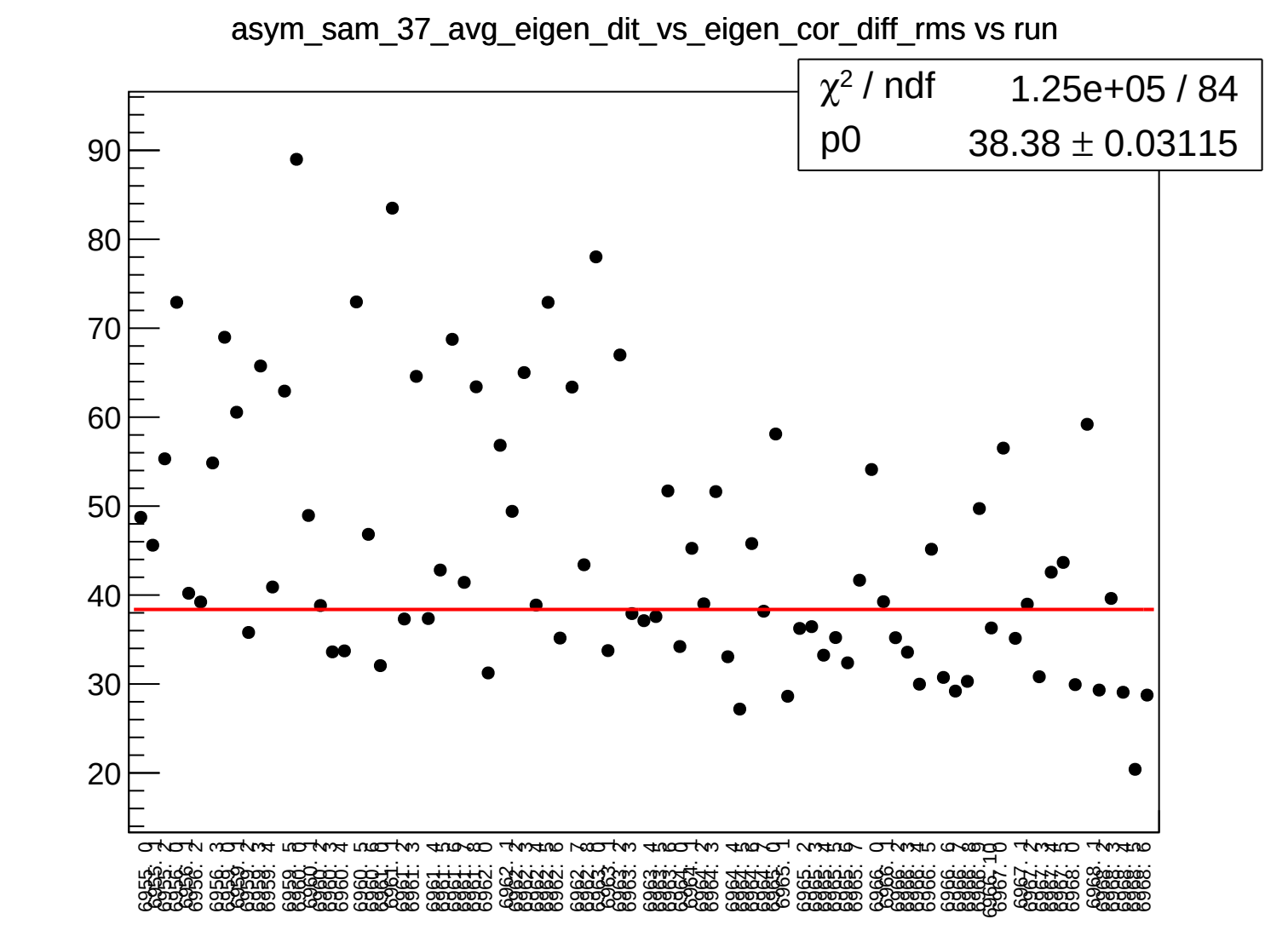

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2703 / 84
p0 0.002598 ± 2.029e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

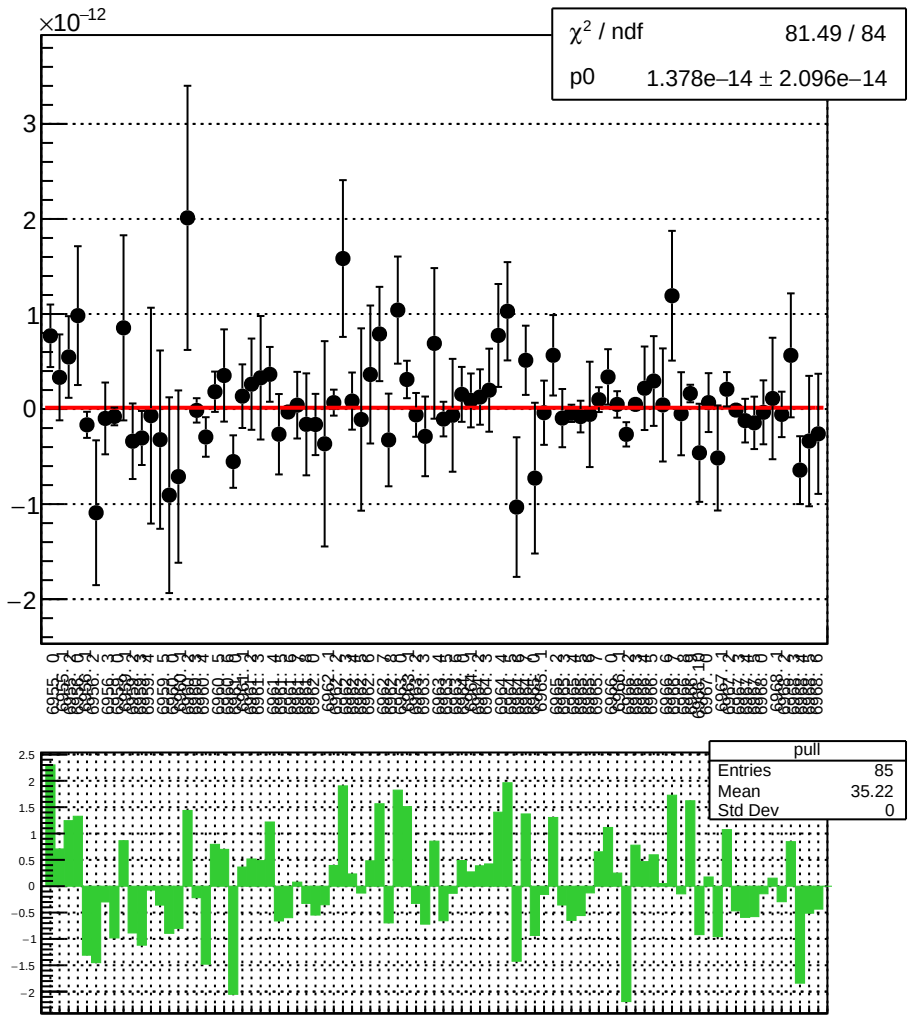

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.98 / 84
p0 0.05835 ± 0.04406
pull
Entries 85
Mean −152.7
Std Dev 0
pull1D
Entries 85
Mean −0.0145
Std Dev 0.982

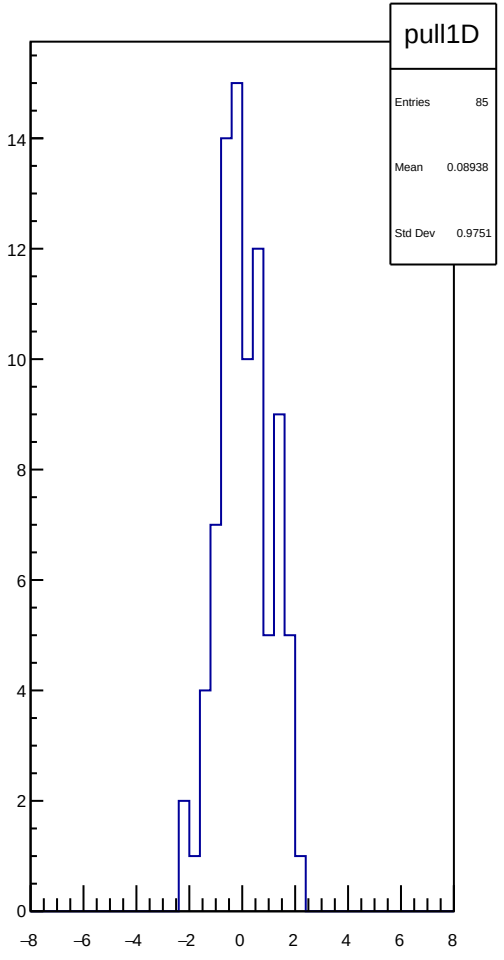

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.25e+05 / 84
p0 38.38 ± 0.03115
90
80
70
60
50
40
30
20

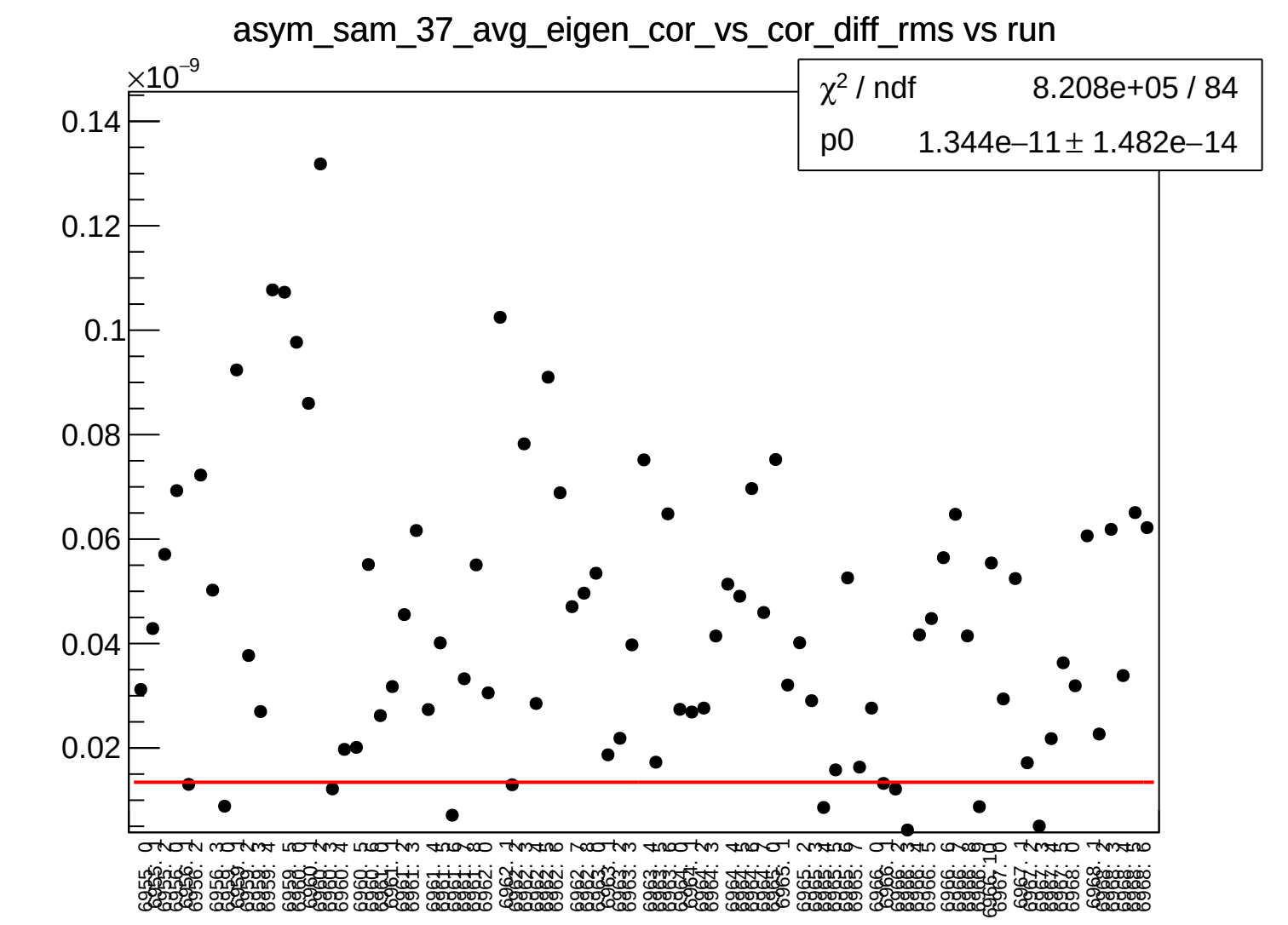

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.98 / 84
p0 0.05835 ± 0.04406
pull
Entries 85
Mean −152.7
Std Dev 0

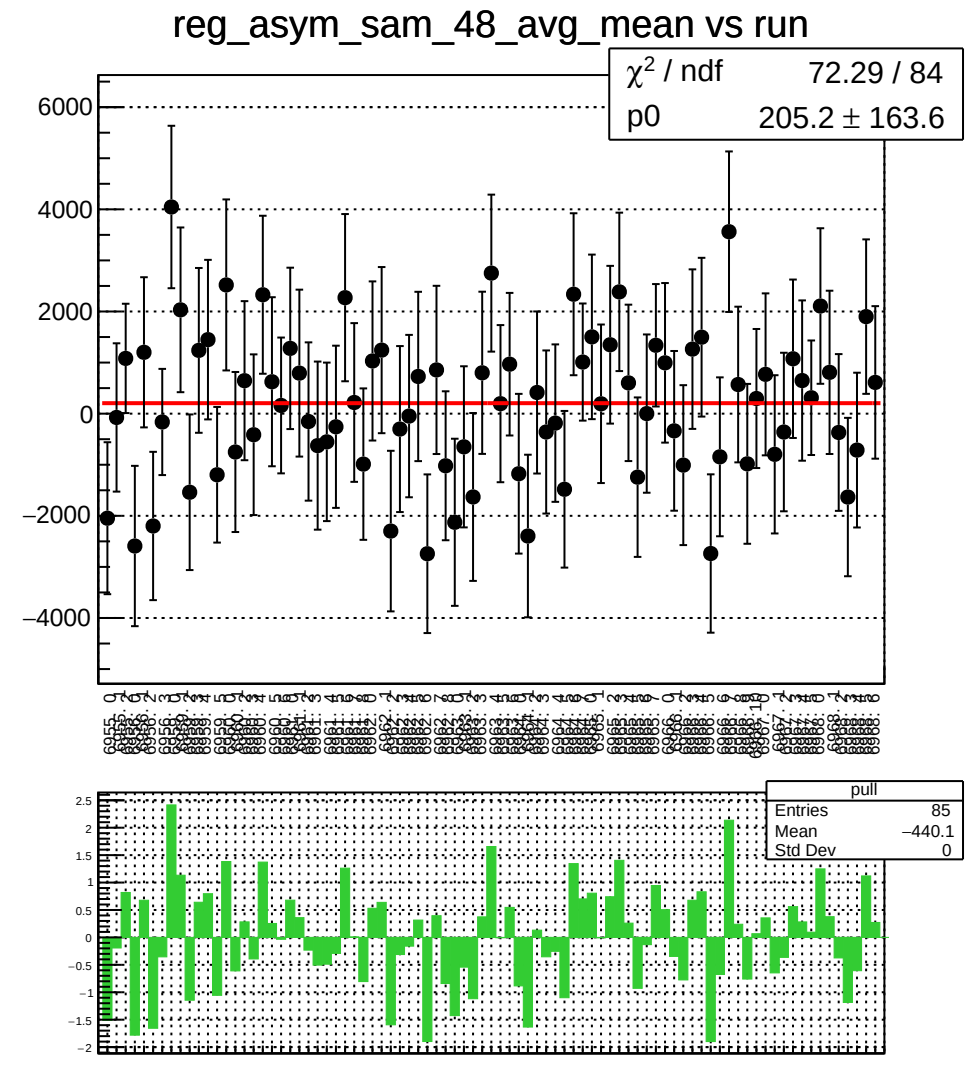

pull1D
Entries 85
Mean −0.0145
Std Dev 0.982

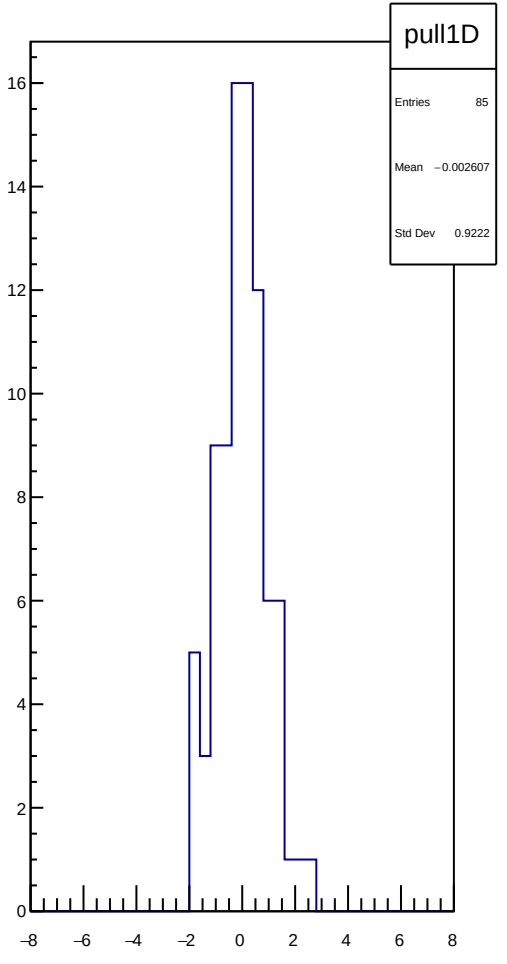

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.25e+05 / 84
p0 38.38 ± 0.03115
90
80
70
60
50
40
30
20

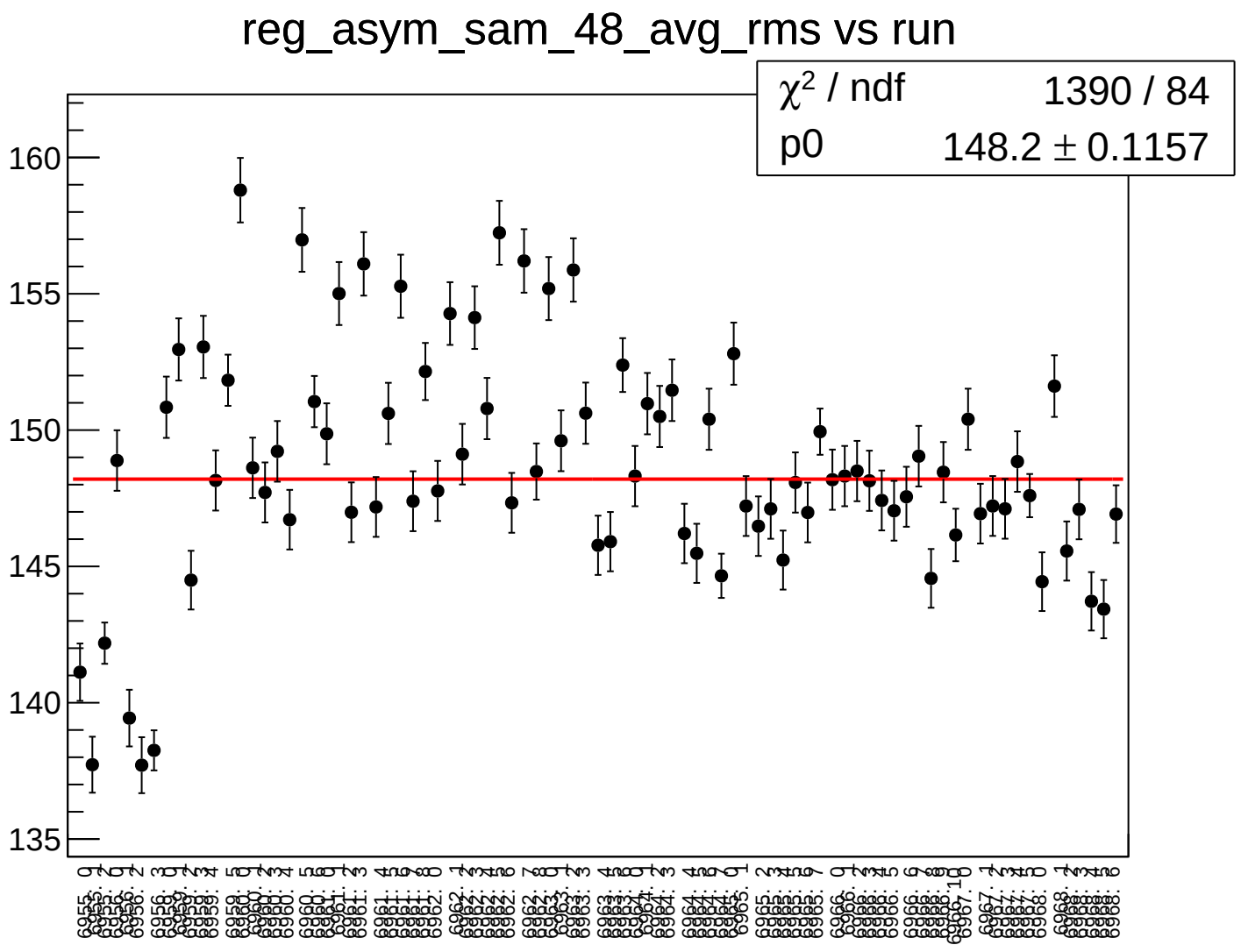

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.49 / 84
p0 1.378e−14 ± 2.096e−14
pull
Entries 85
Mean 35.22
Std Dev 0

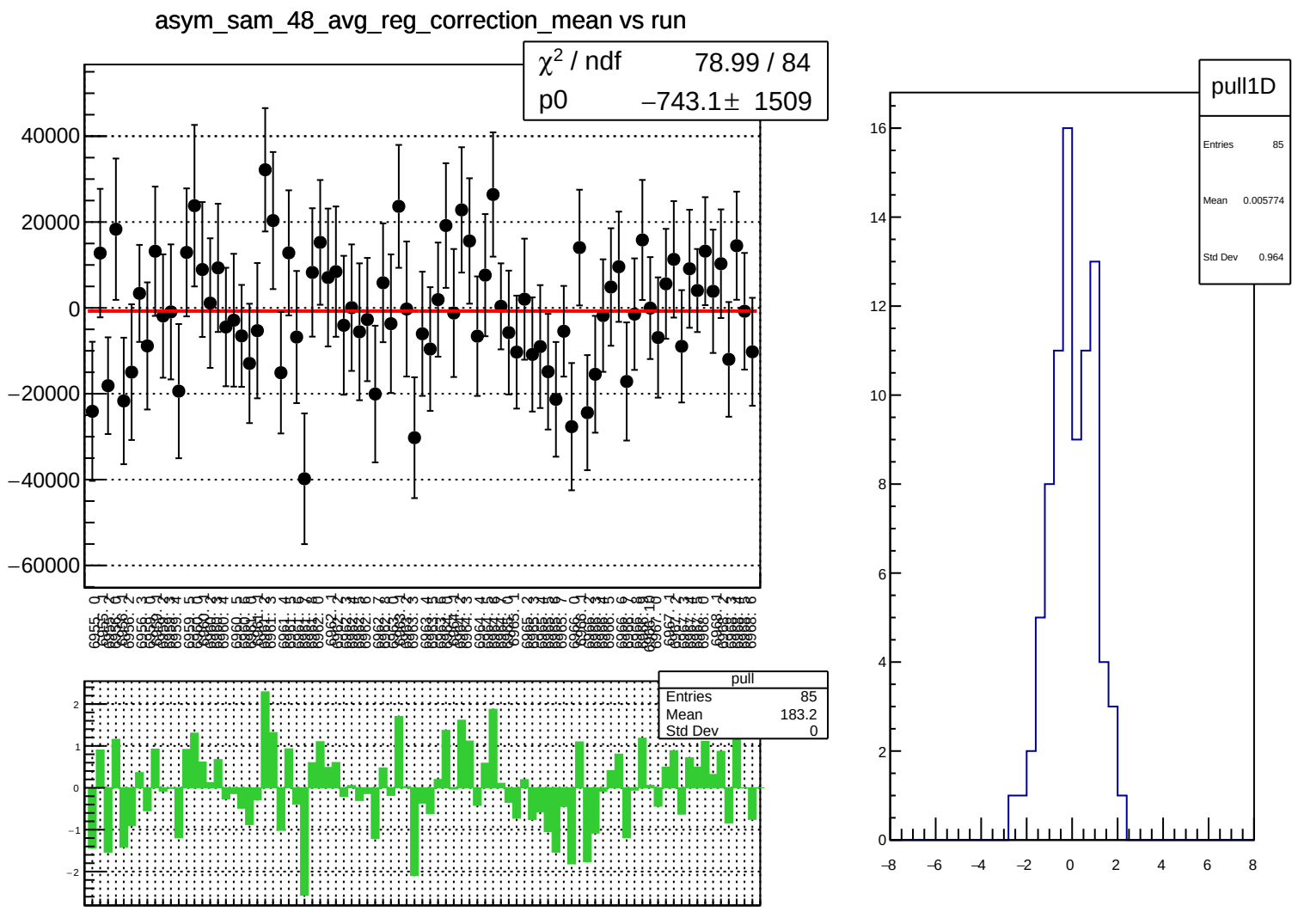

pull1D
Entries 85
Mean 0.08938
Std Dev 0.9751

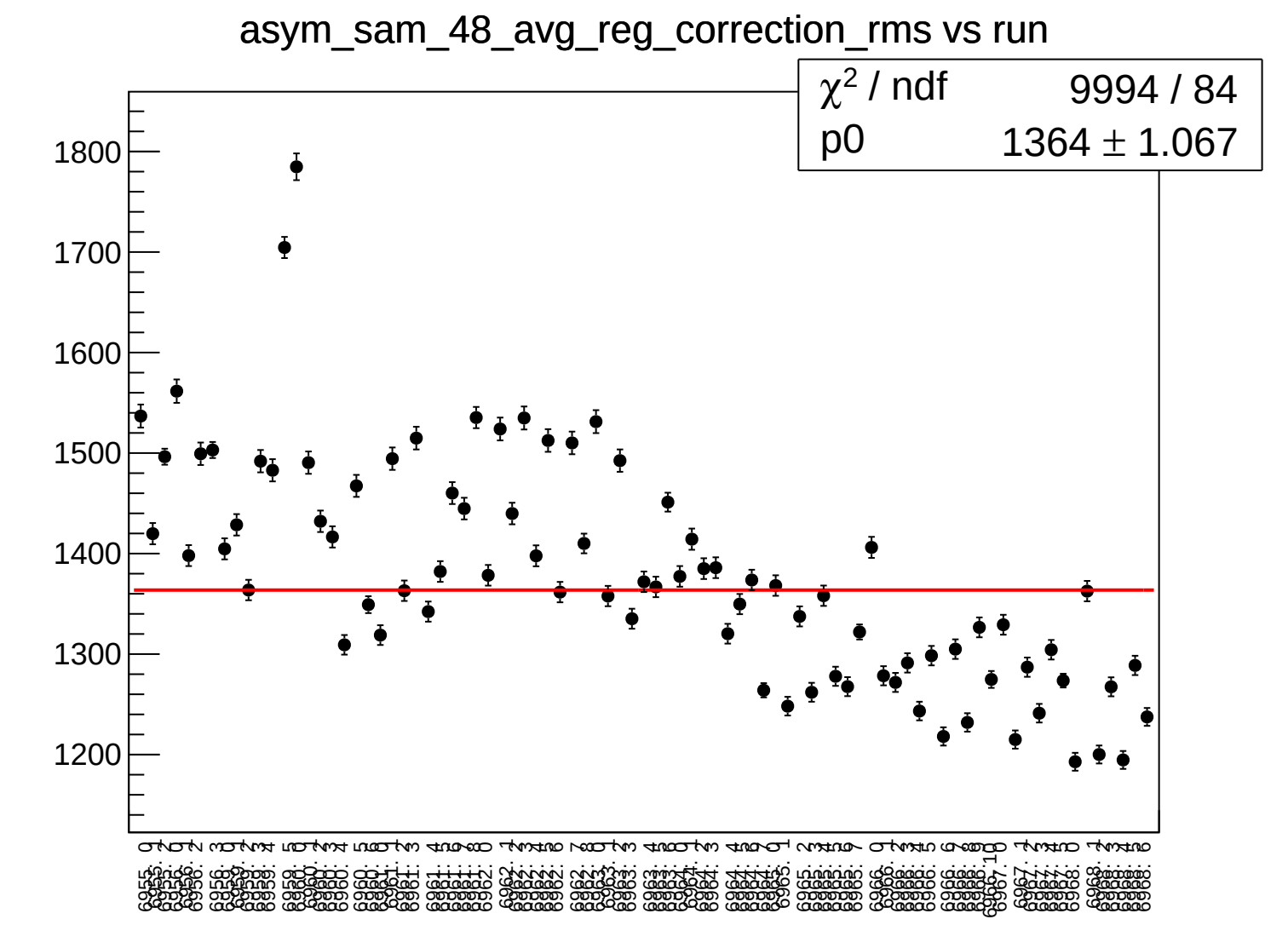

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.208e+05 / 84
p0 1.344e−11 ± 1.482e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

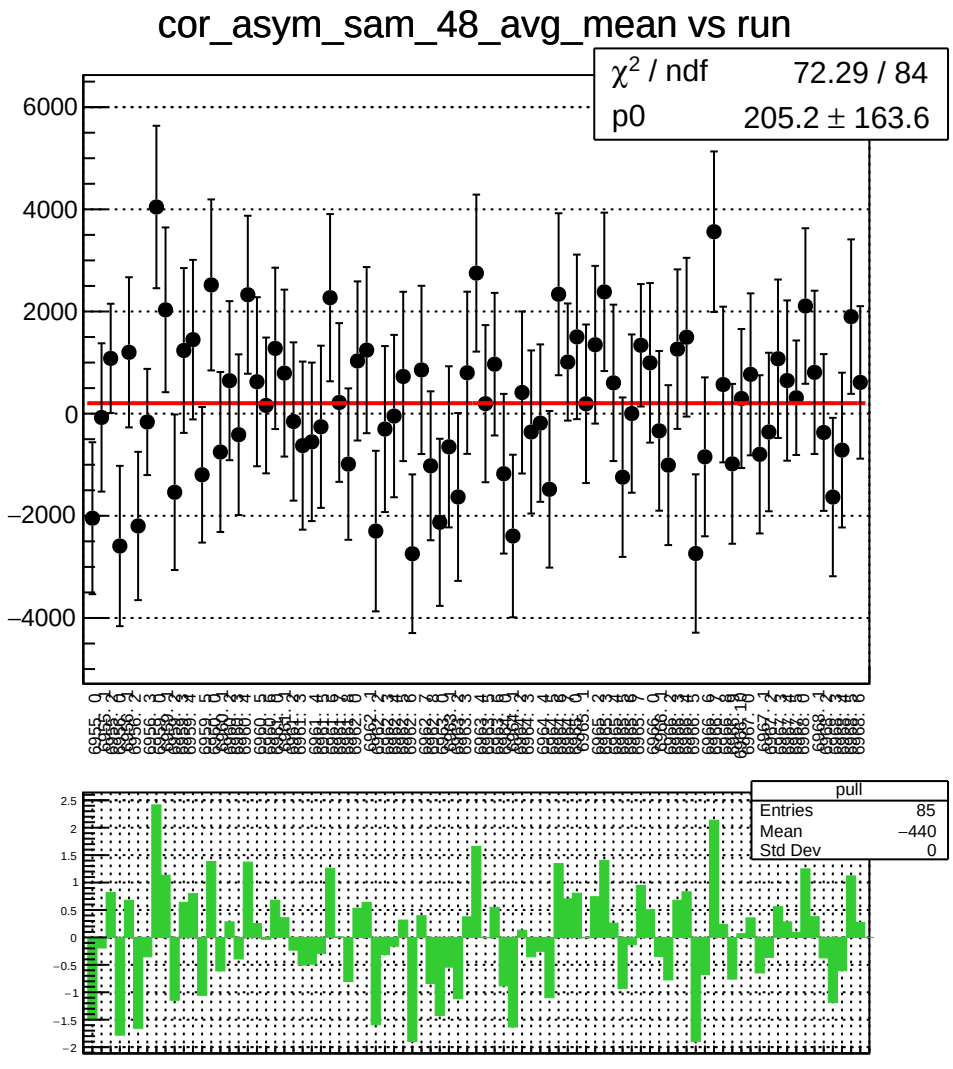

reg_asym_sam_48_avg_mean vs run
χ² / ndf 72.29 / 84
p0 205.2 ± 163.6
pull
Entries 85
Mean −440.1
Std Dev 0

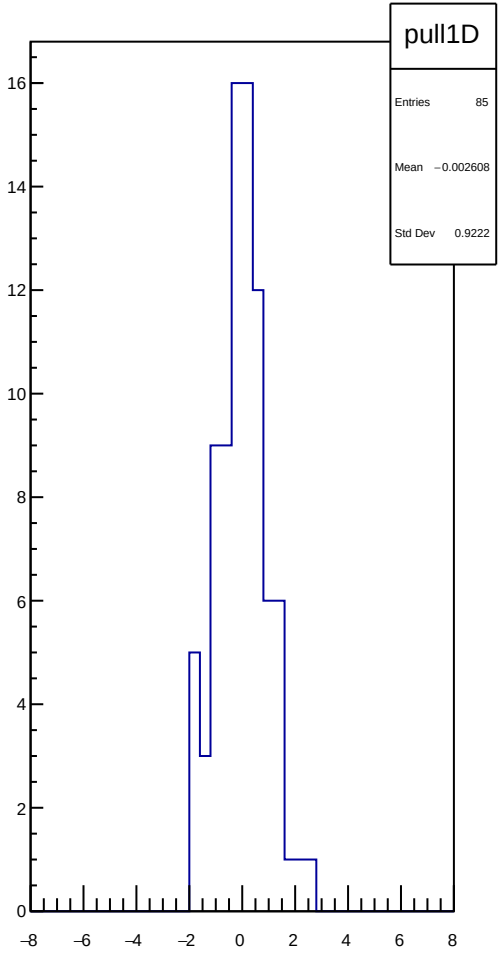

pull1D
Entries 85
Mean −0.002607
Std Dev 0.9222

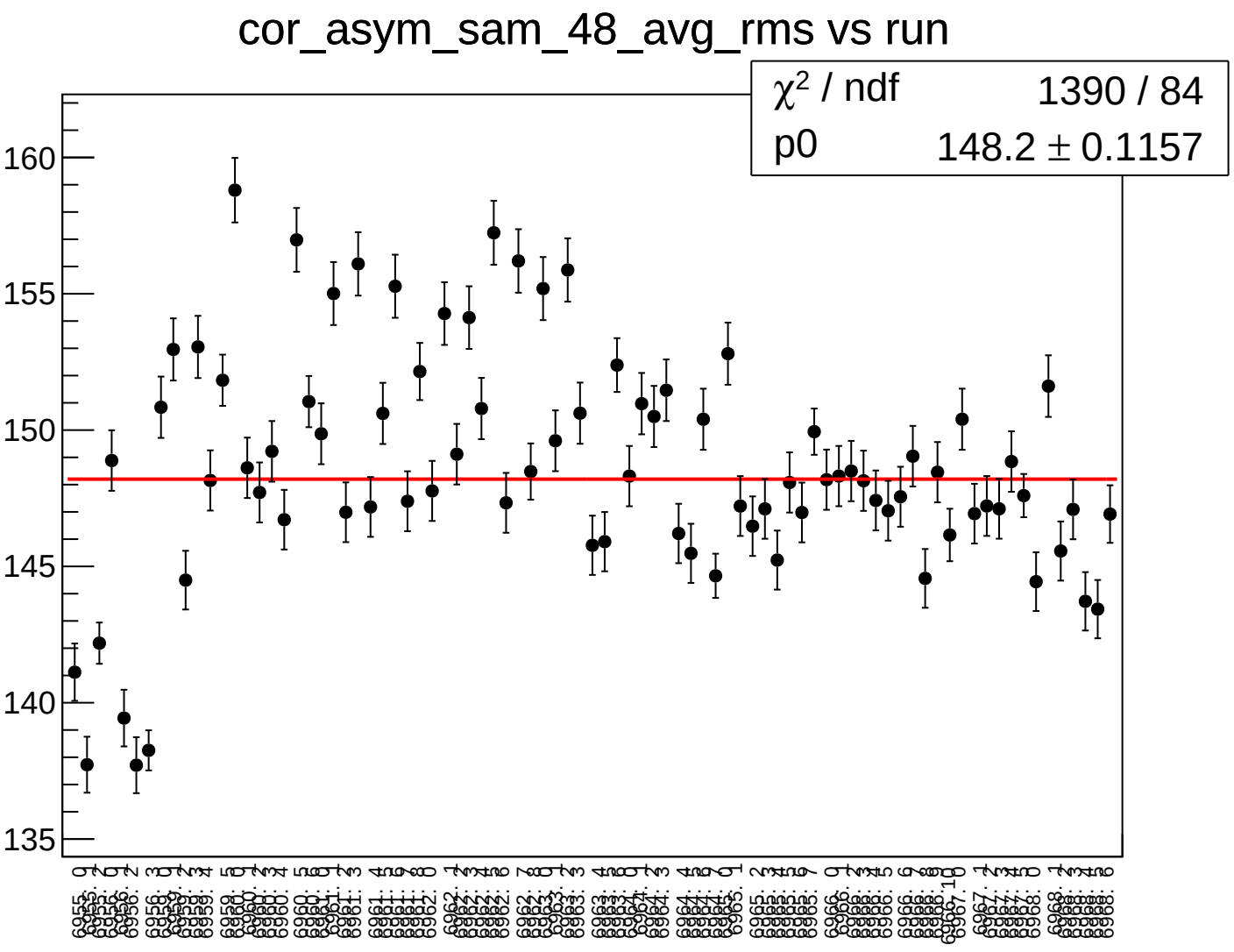

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1390 / 84
p0 148.2 ± 0.1157
160
155
150
145
140
135

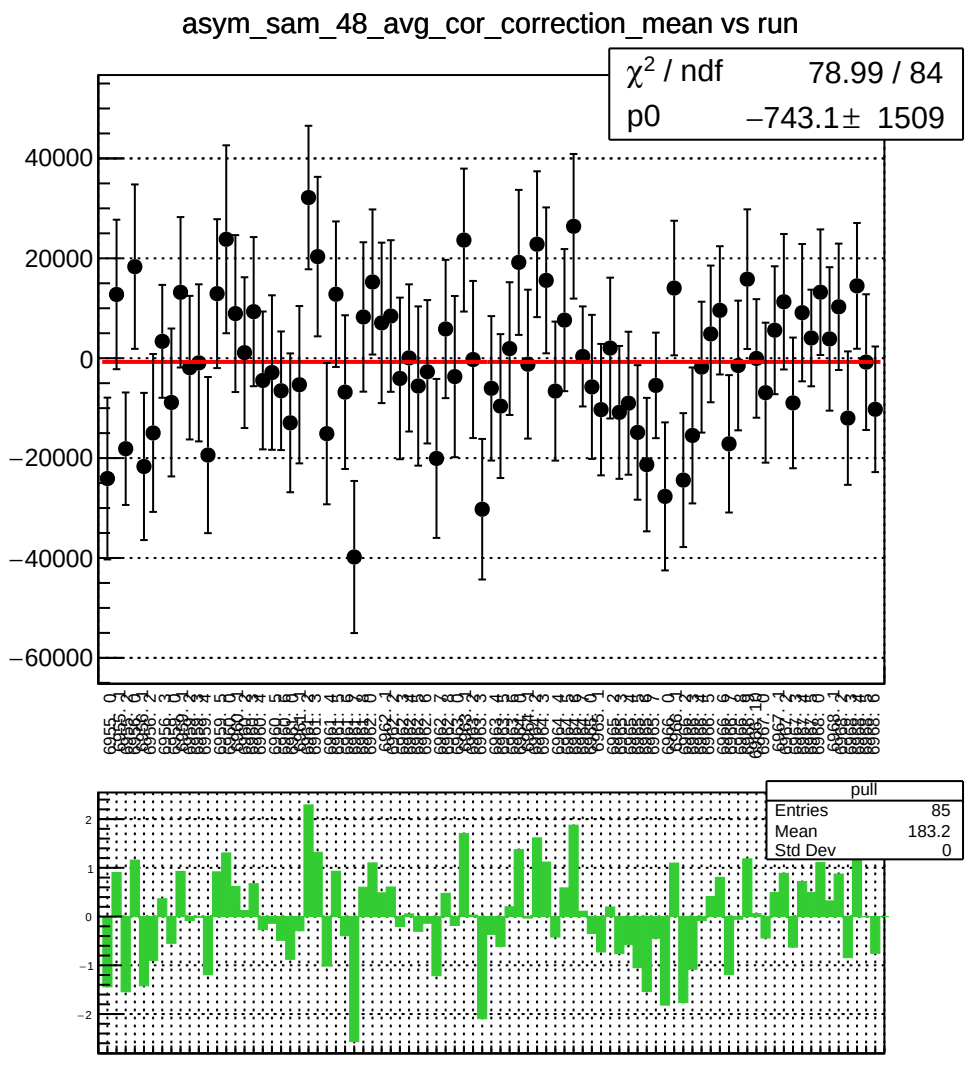

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 78.99 / 84
p0 −743.1± 1509
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 183.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.005774
Std Dev 0.964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

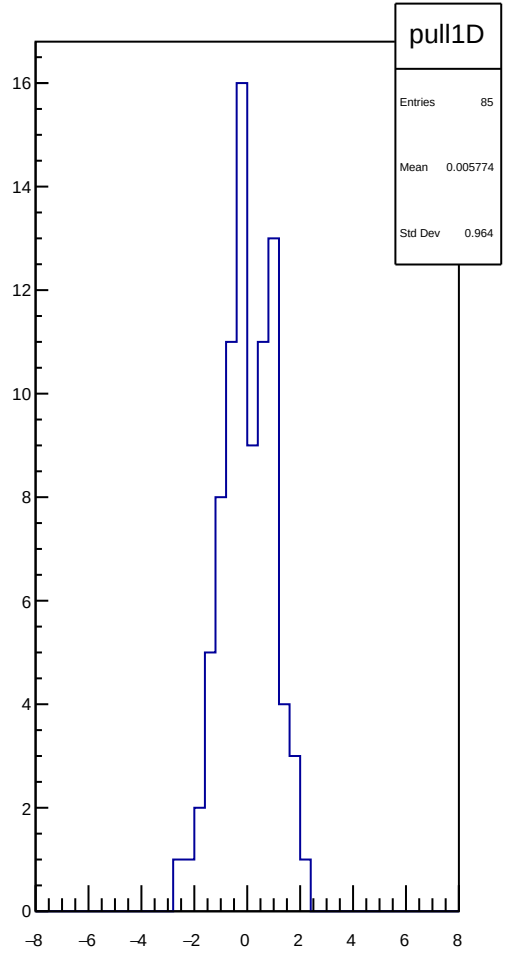

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 9994 / 84
p0 1364 ± 1.067
1800
1700
1600
1500
1400
1300
1200

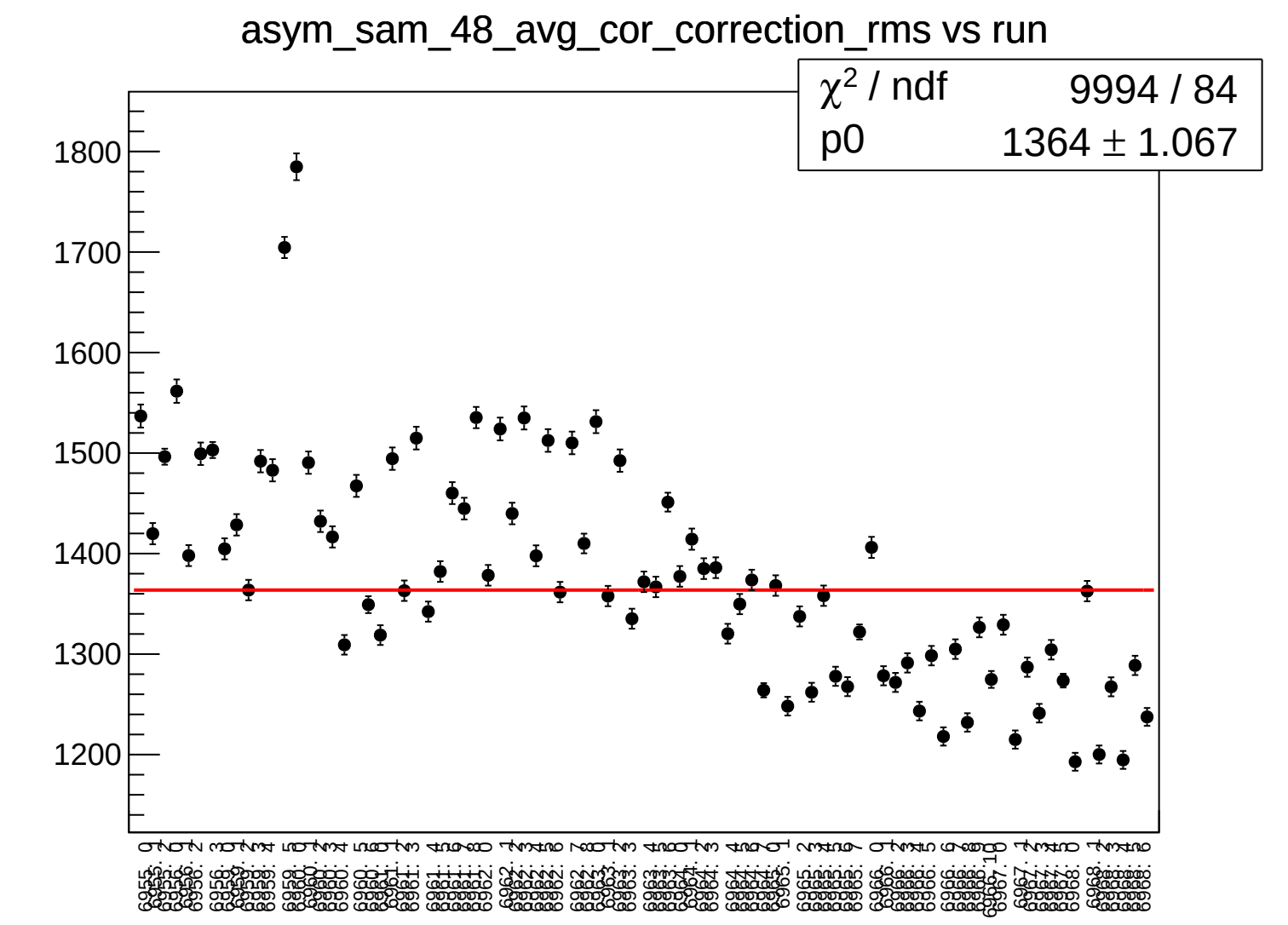

cor_asym_sam_48_avg_mean vs run
χ² / ndf 72.29 / 84
p0 205.2 ± 163.6
pull
Entries 85
Mean −440
Std Dev 0

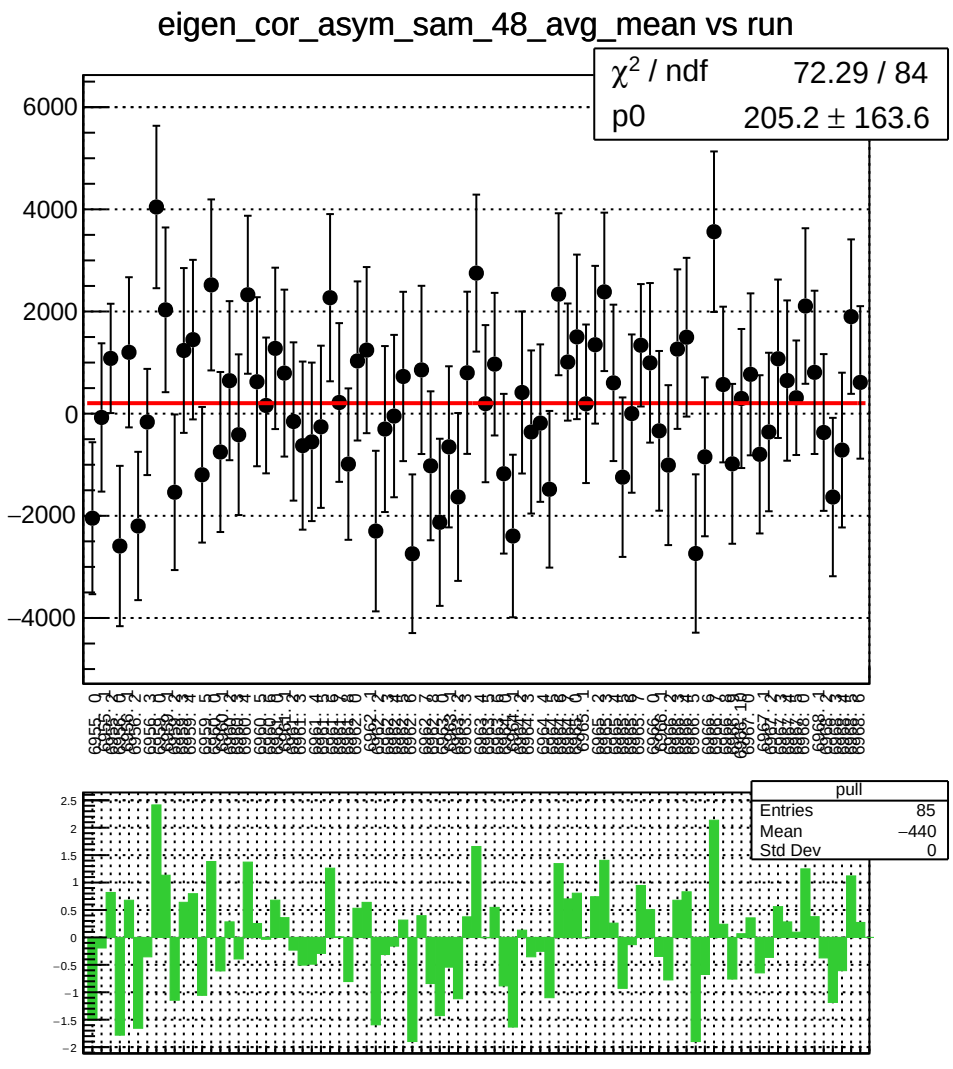

pull1D
Entries 85
Mean −0.002608
Std Dev 0.9222

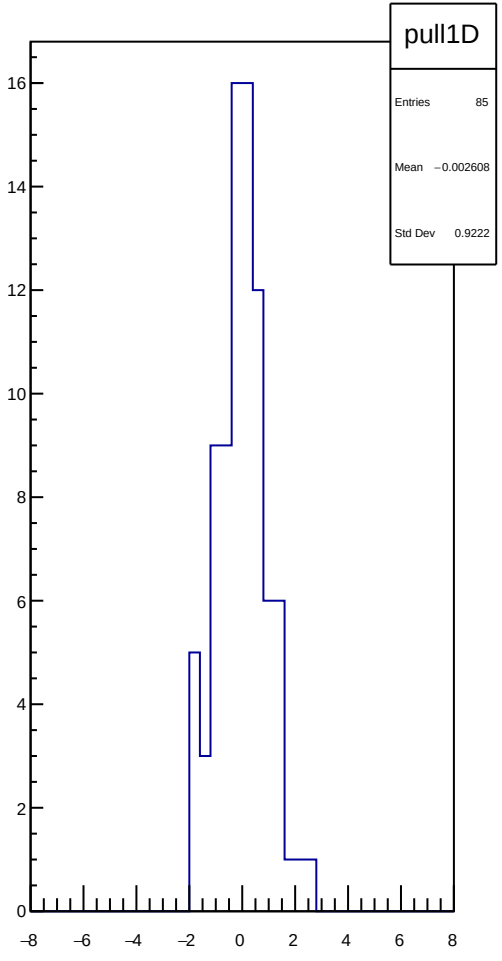

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1390 / 84
p0 148.2 ± 0.1157
160
155
150
145
140
135

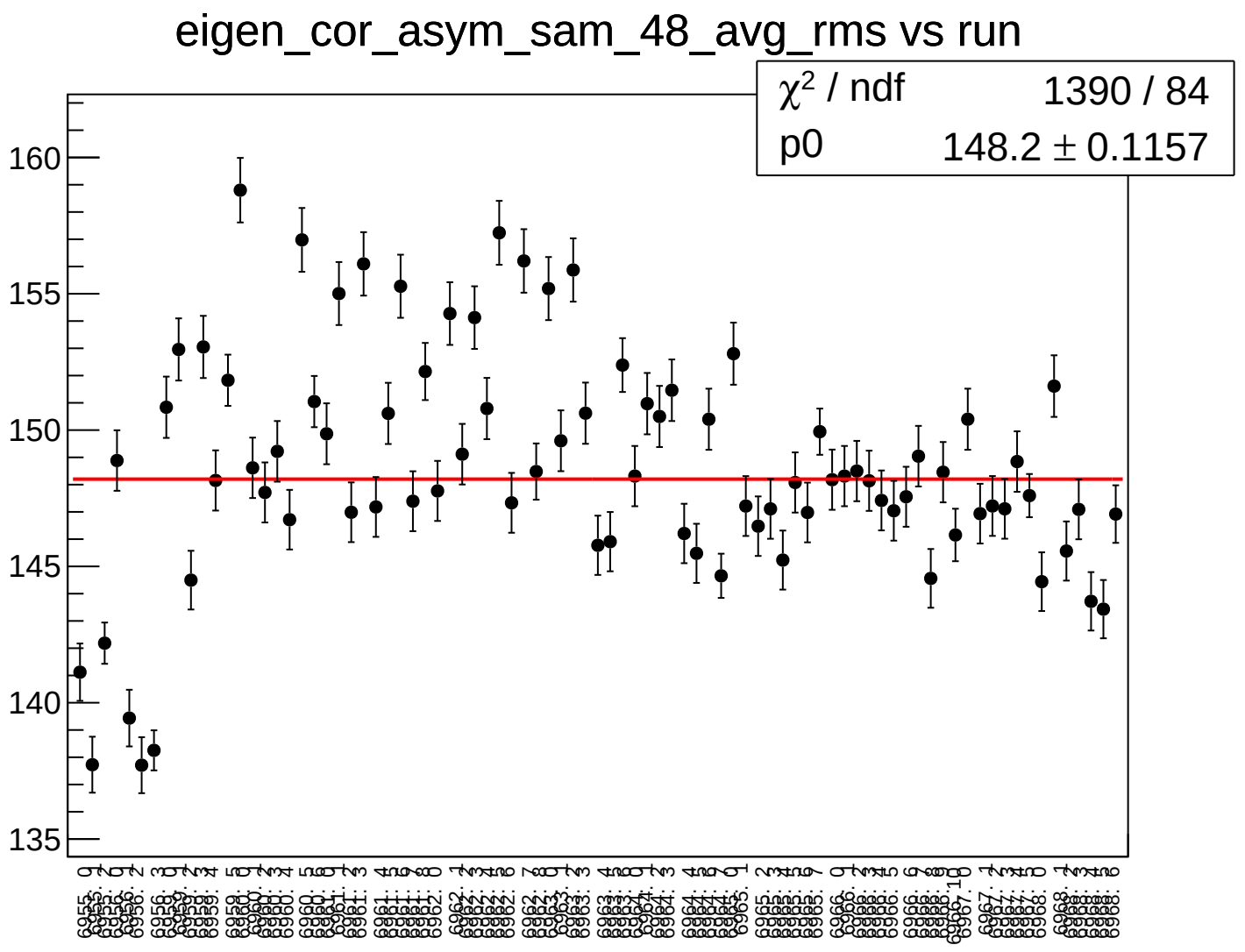

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 78.99 / 84
p0 −743.1± 1509
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 183.2
Std Dev 0
2
1
0
−1
−2

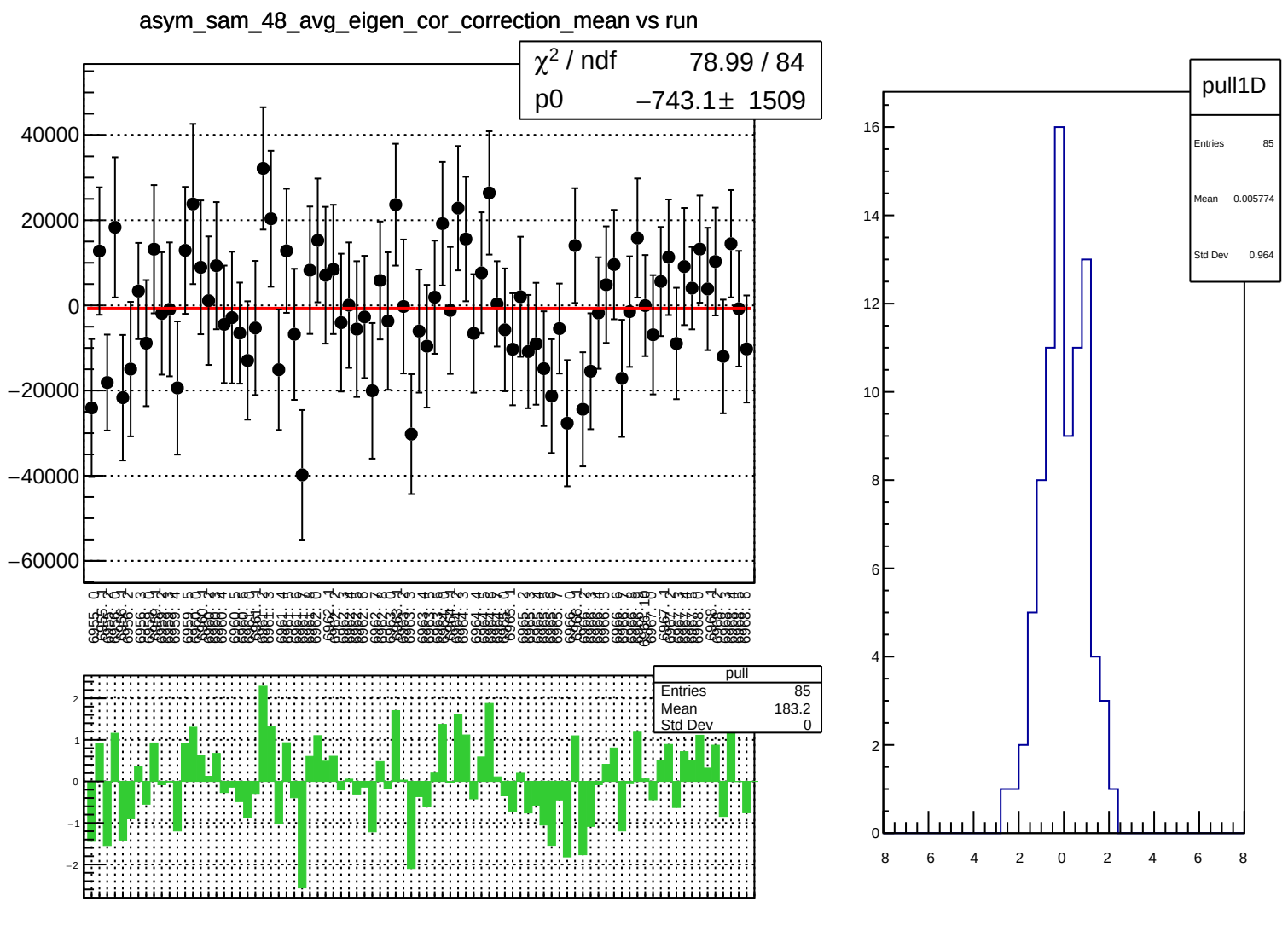

pull1D
Entries 85
Mean 0.005774
Std Dev 0.964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

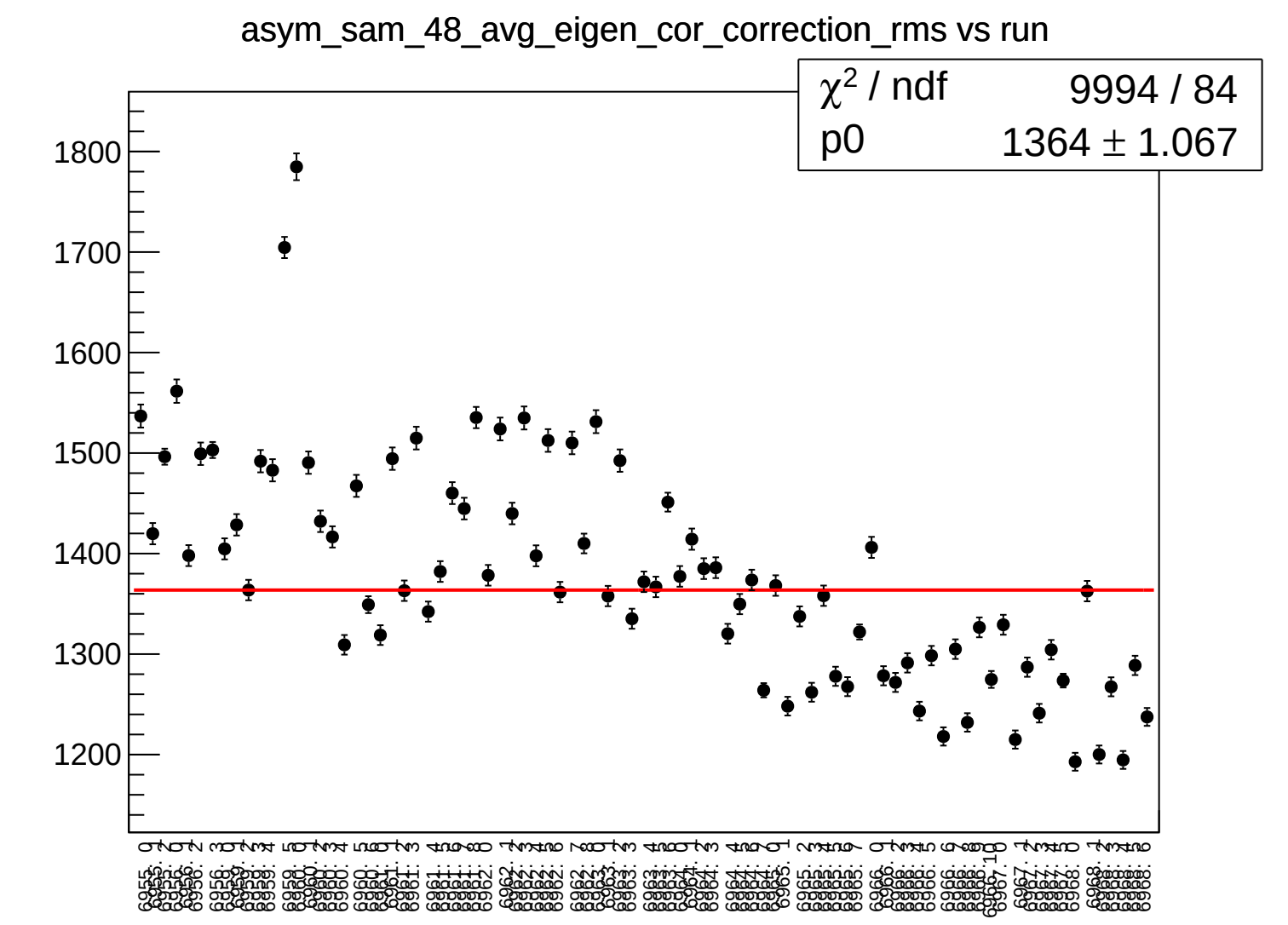

asym_sam_48_avg_cor_correction_rms vs run
$\chi^2$ / ndf 9994 / 84
p0 1364 ± 1.067
1800
1700
1600
1500
1400
1300
1200

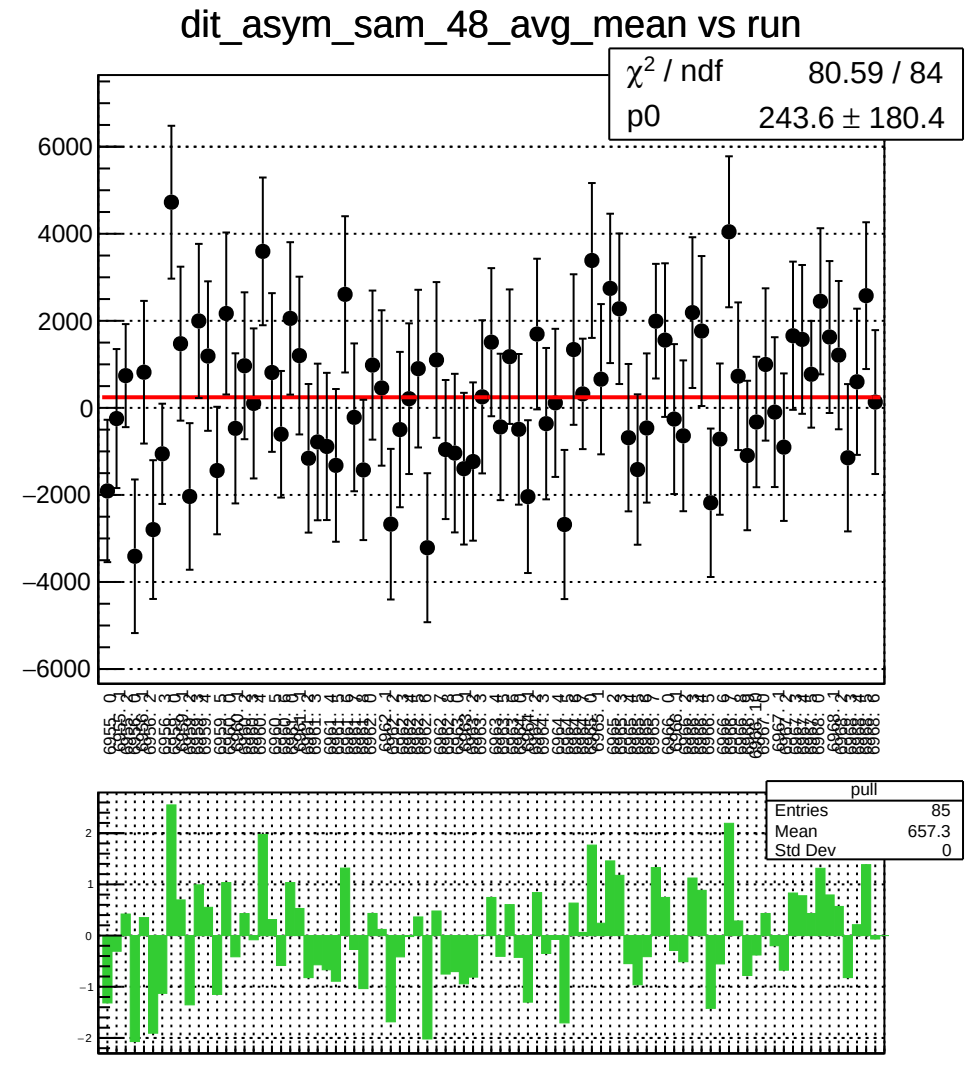

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 72.29 / 84
p0 205.2 ± 163.6
pull
Entries 85
Mean −440
Std Dev 0

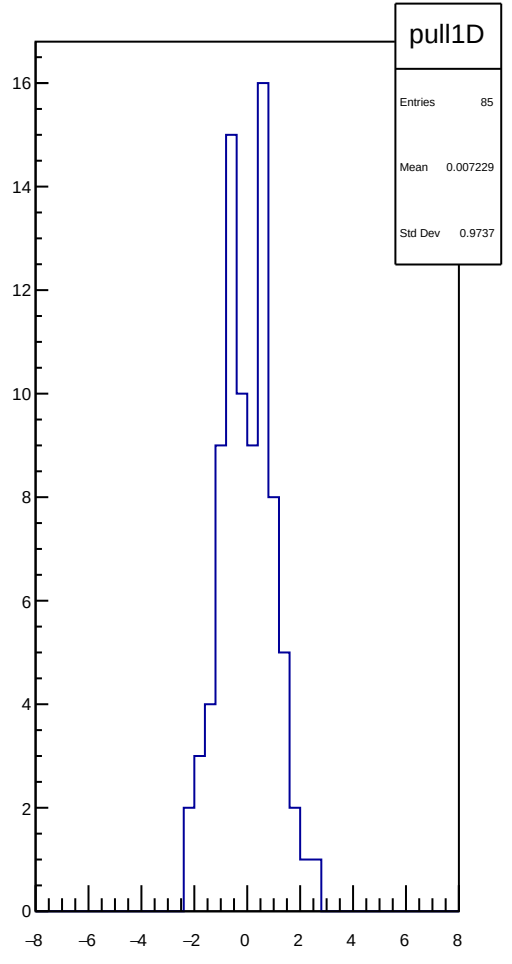

pull1D
Entries 85
Mean −0.002608
Std Dev 0.9222

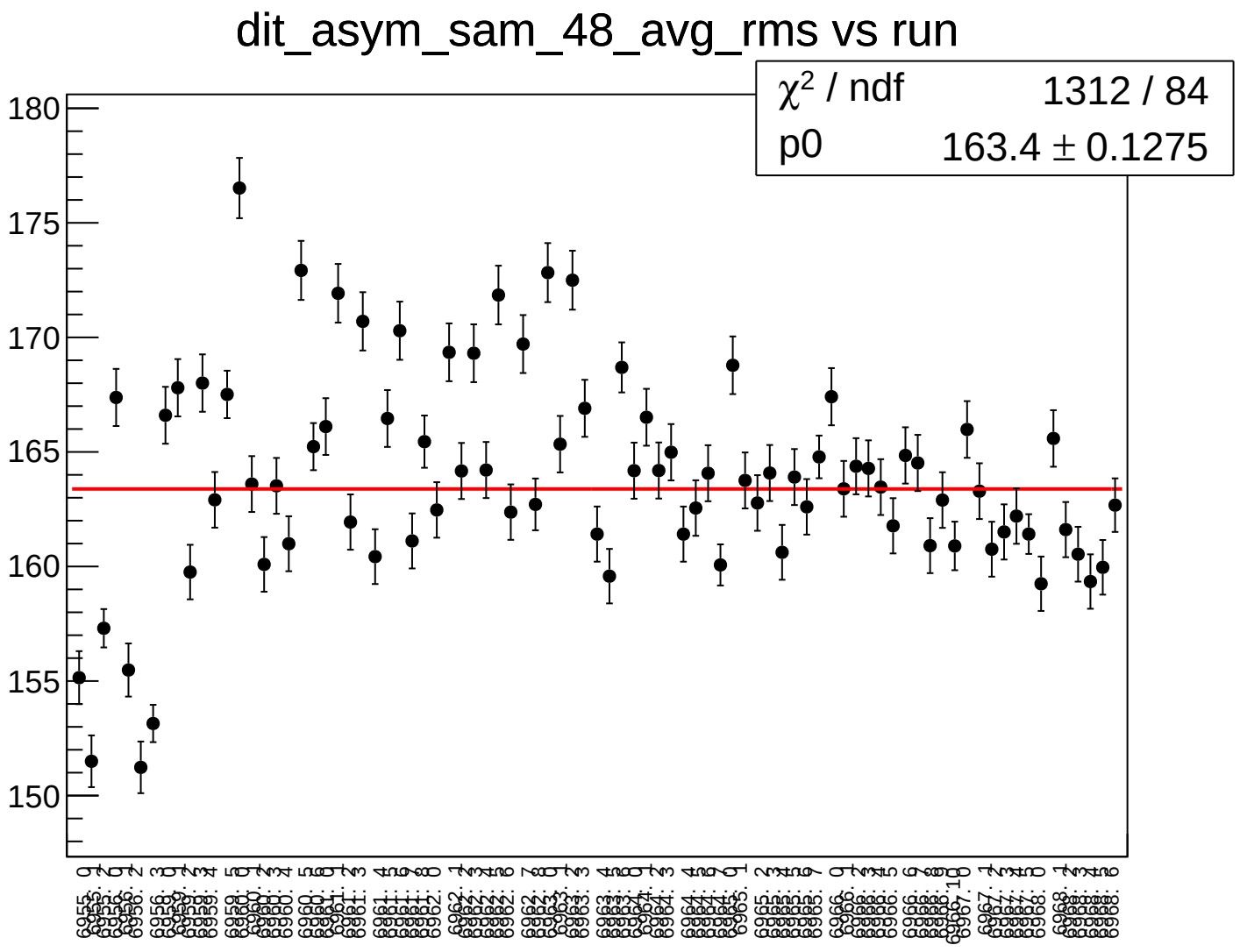

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1390 / 84
p0 148.2 ± 0.1157
160
155
150
145
140
135

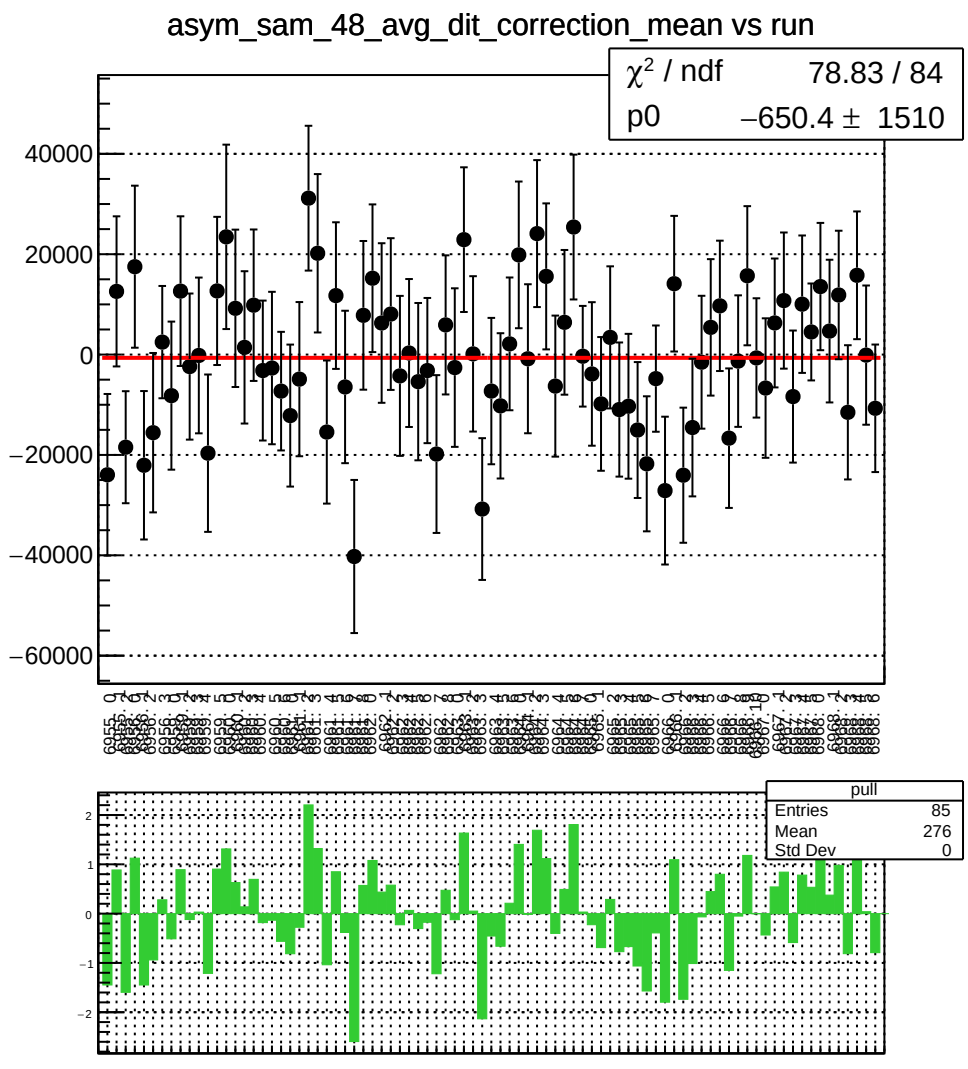

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.99 / 84
p0 −743.1± 1509
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 183.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.005774
Std Dev 0.964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

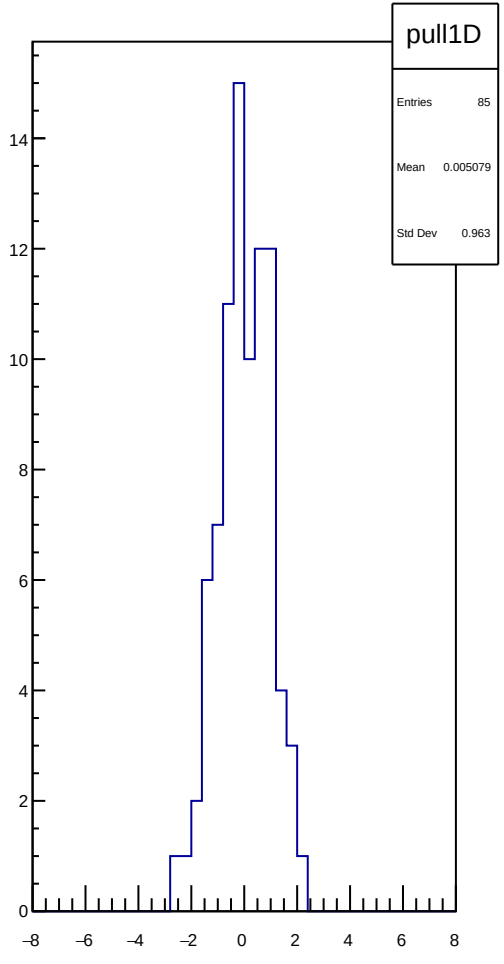

asym_sam_48_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 9994 / 84
p0 1364 ± 1.067
1800
1700
1600
1500
1400
1300
1200

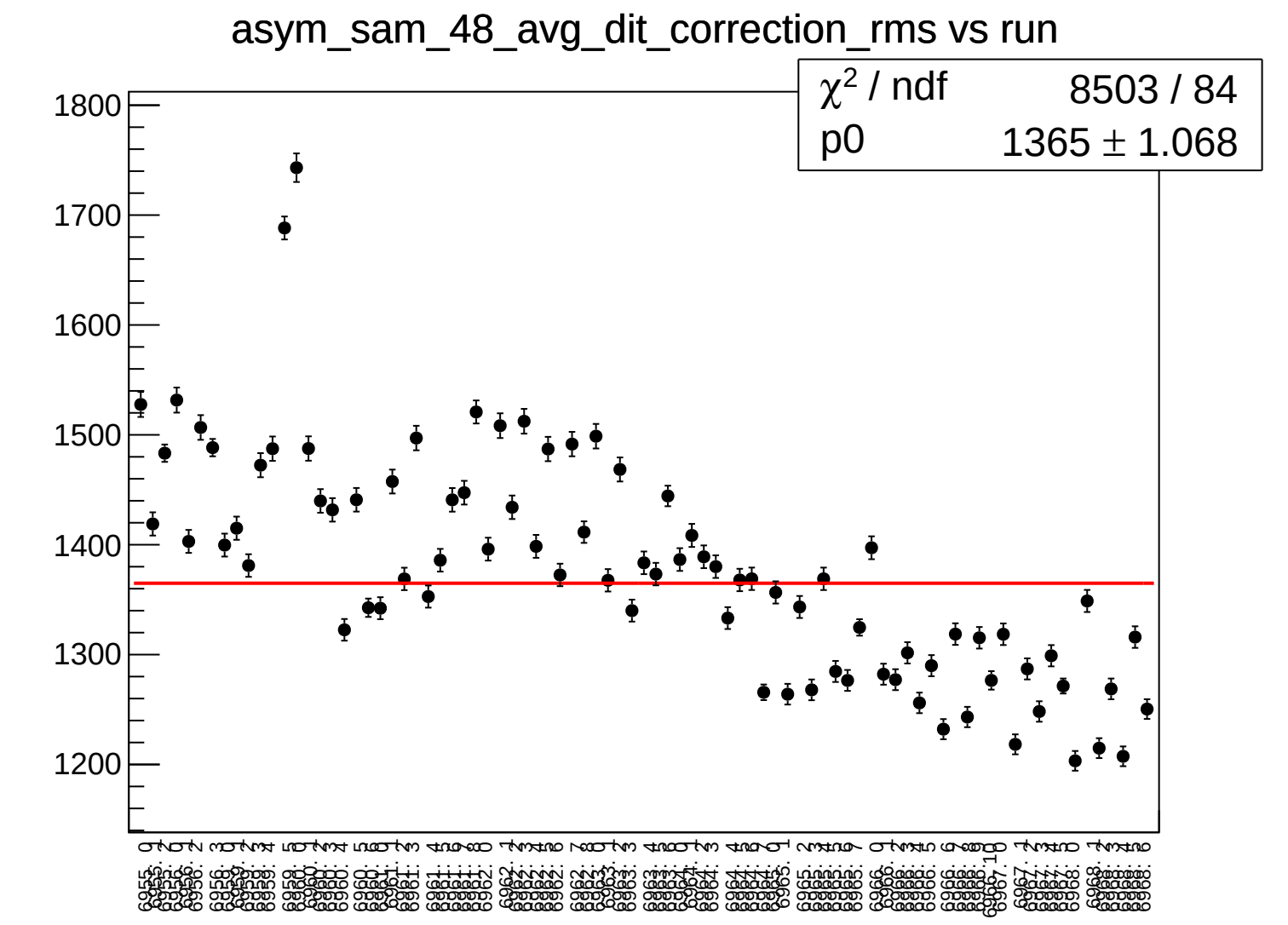

dit_asym_sam_48_avg_mean vs run
$\chi^2$ / ndf 80.59 / 84
p0 243.6 ± 180.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 657.3
Std Dev 0
2
1
0
−1
−2

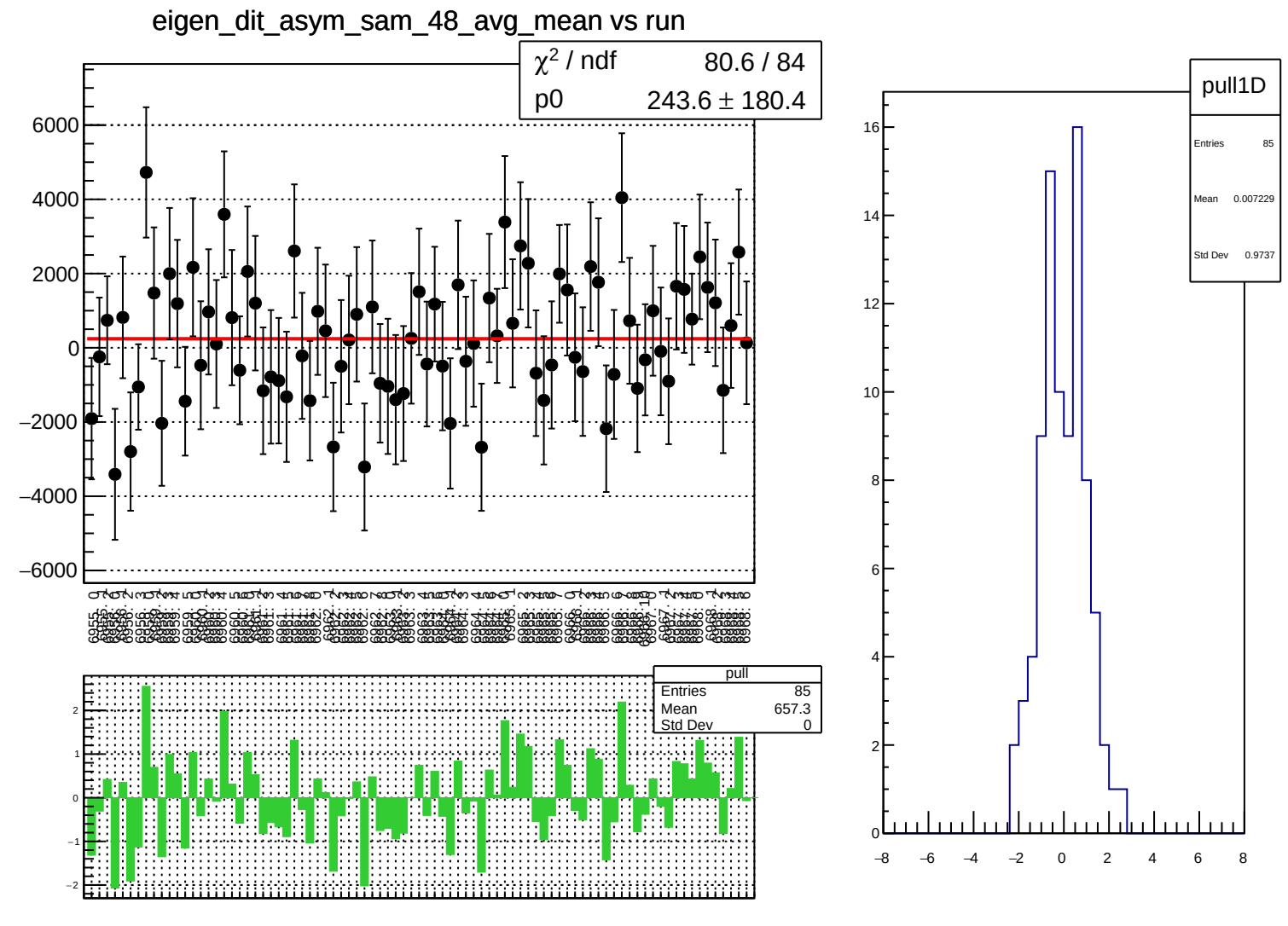

pull1D
Entries 85
Mean 0.007229
Std Dev 0.9737
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

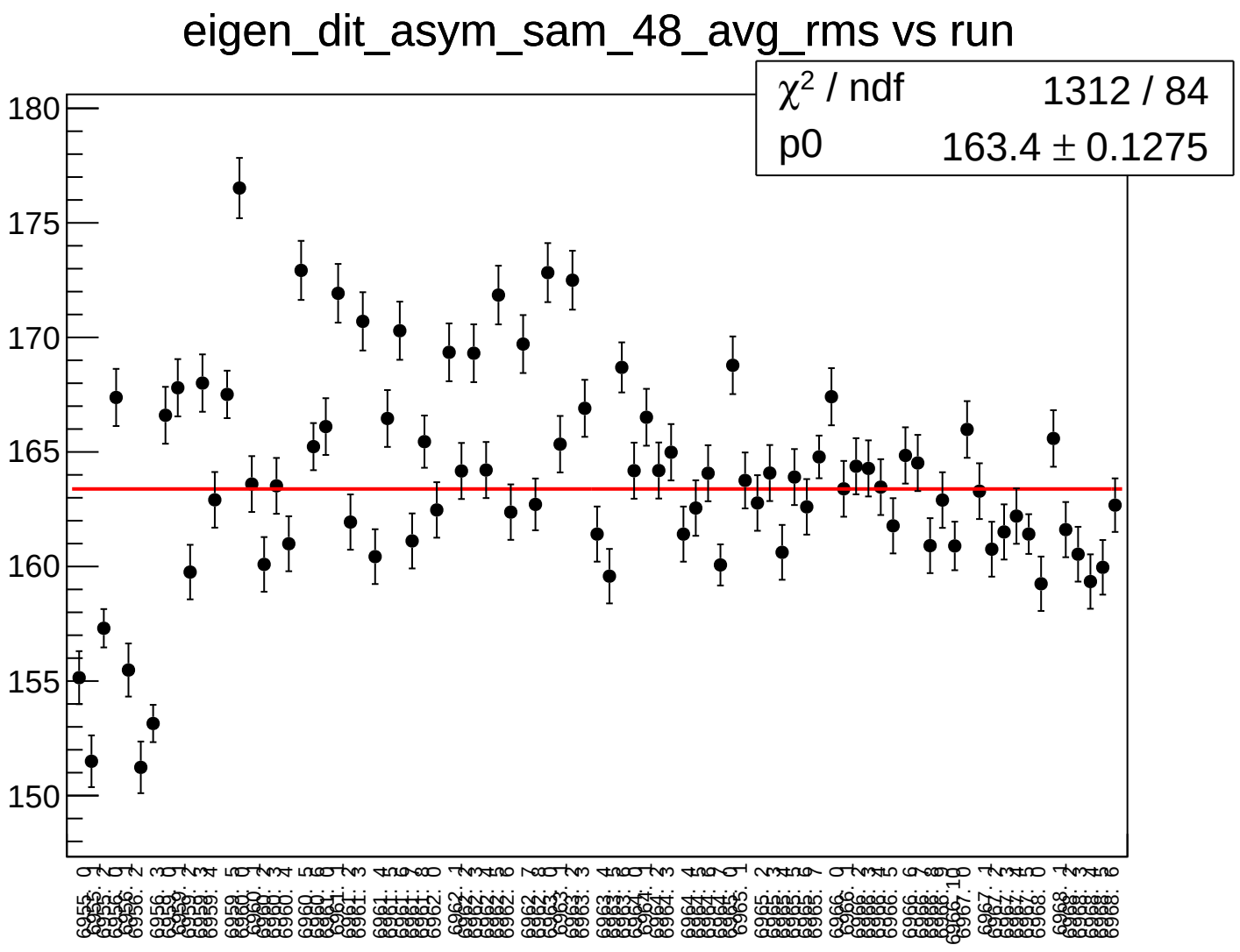

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1312 / 84
p0 163.4 ± 0.1275
180
175
170
165
160
155
150

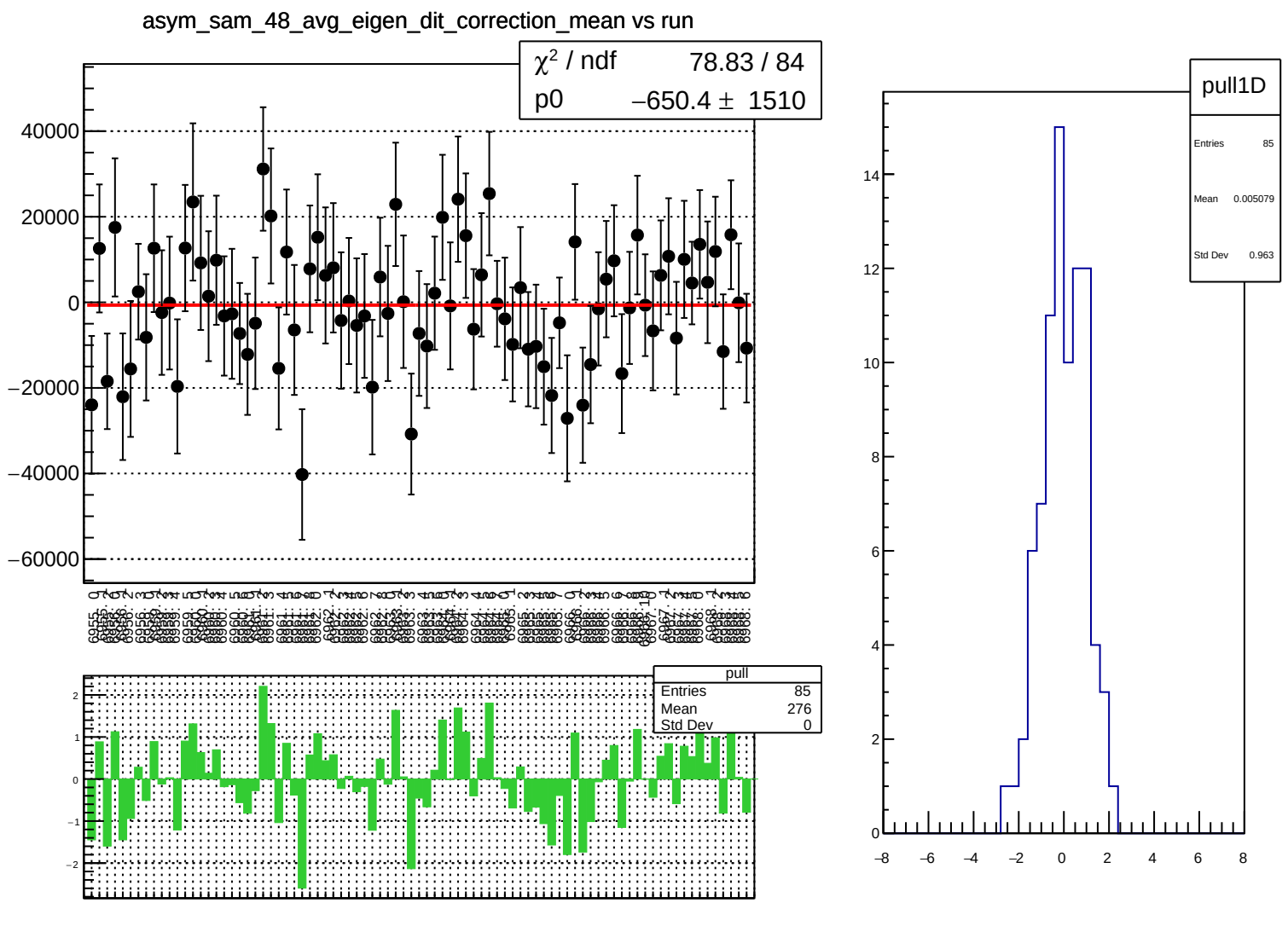

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 78.83 / 84
p0 −650.4 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 276
Std Dev 0
2
1
0
−1
−2

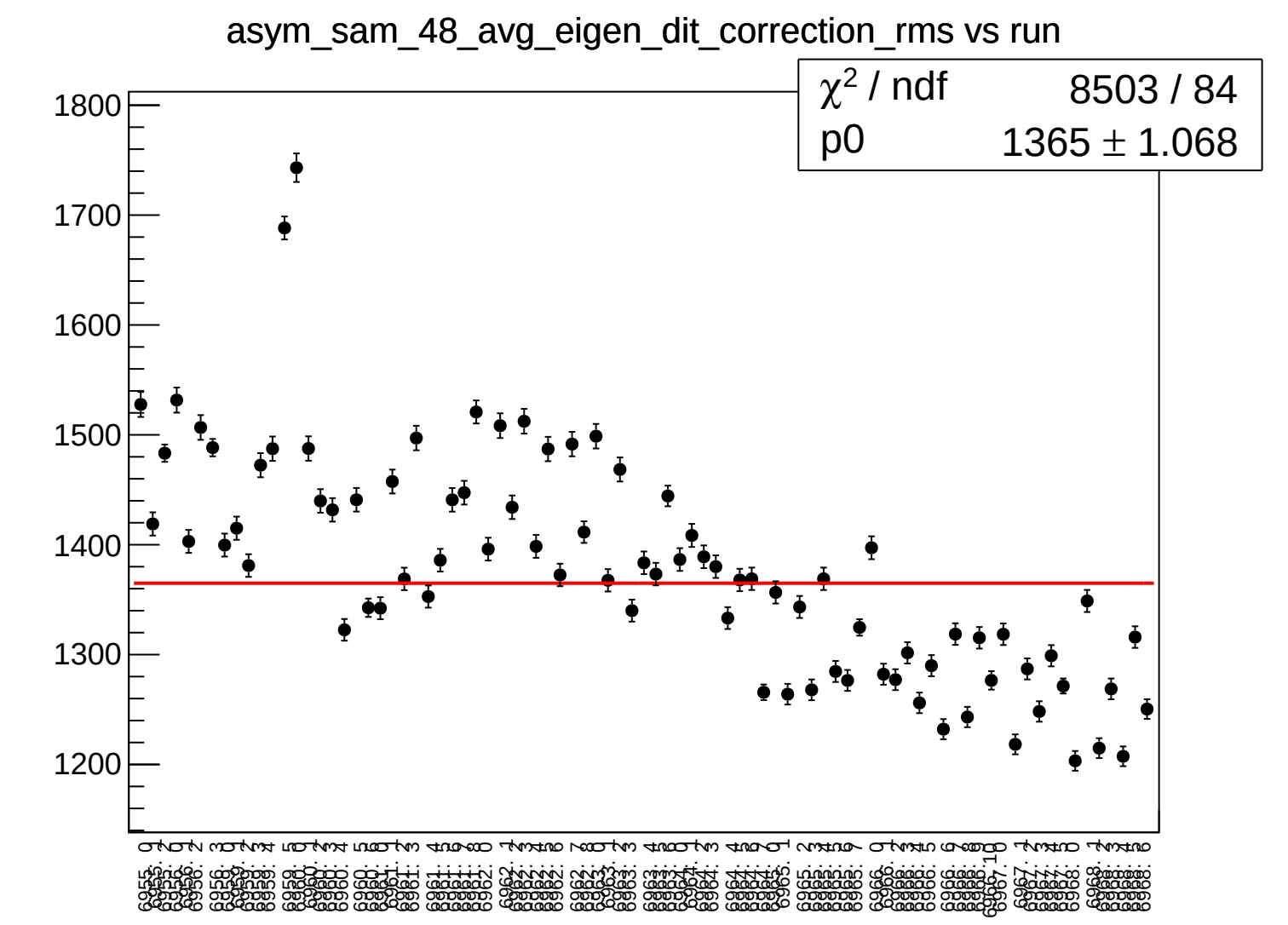

pull1D
Entries 85
Mean 0.005079
Std Dev 0.963
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

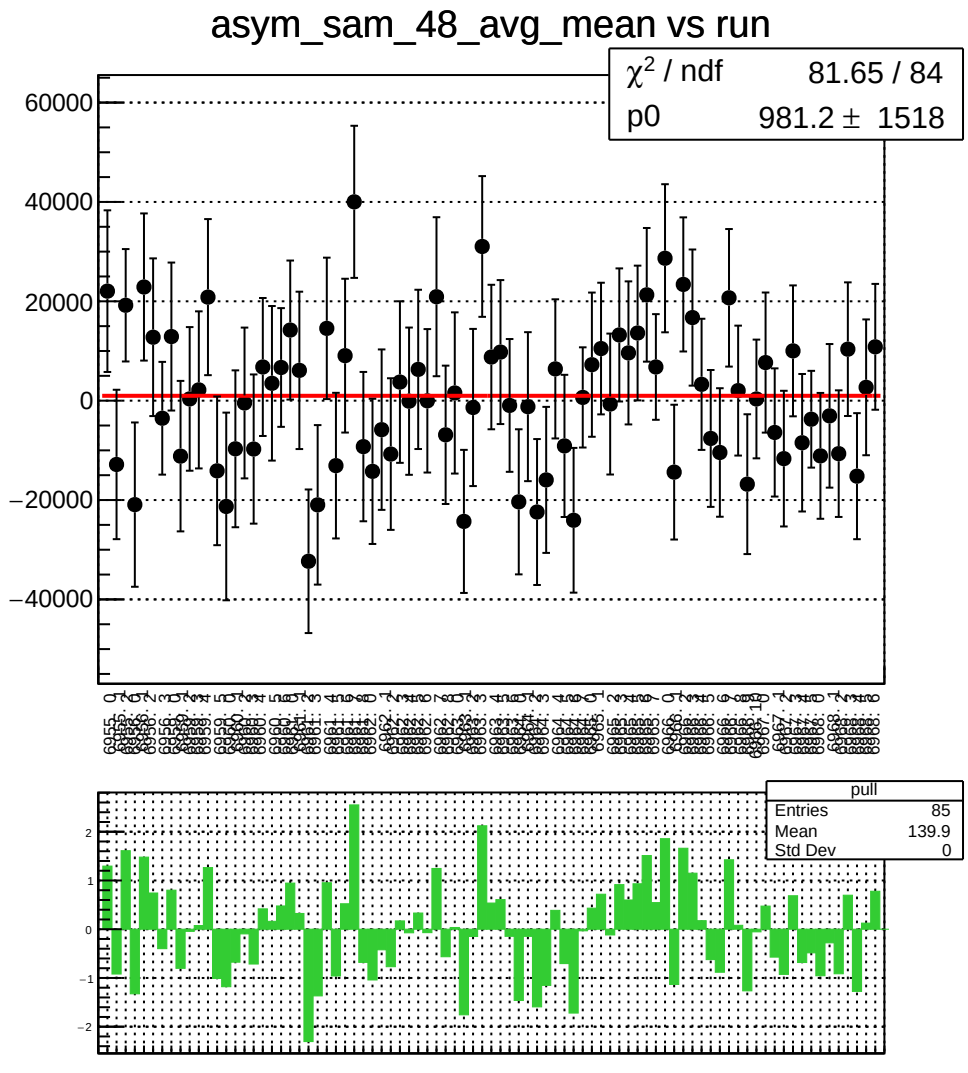

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 8503 / 84
p0 1365 ± 1.068
1800
1700
1600
1500
1400
1300
1200

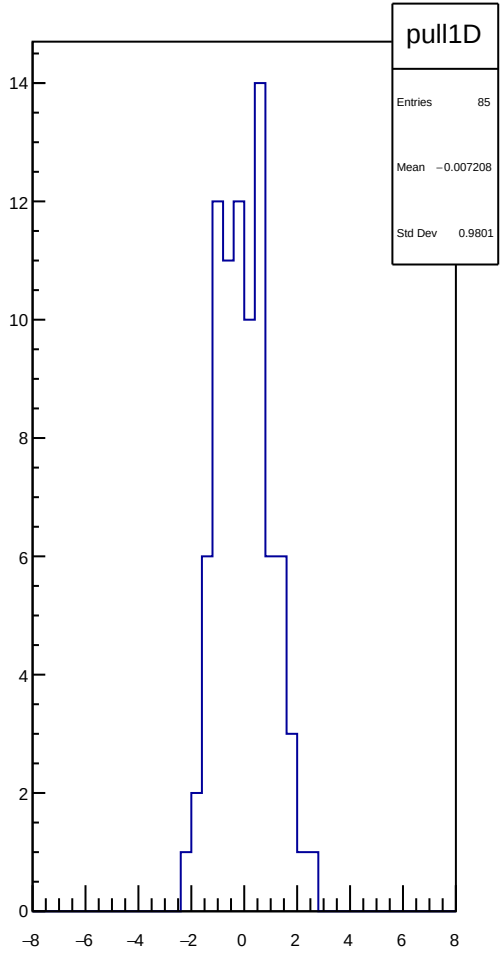

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 80.6 / 84
p0 243.6 ± 180.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 657.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.007229
Std Dev 0.9737
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

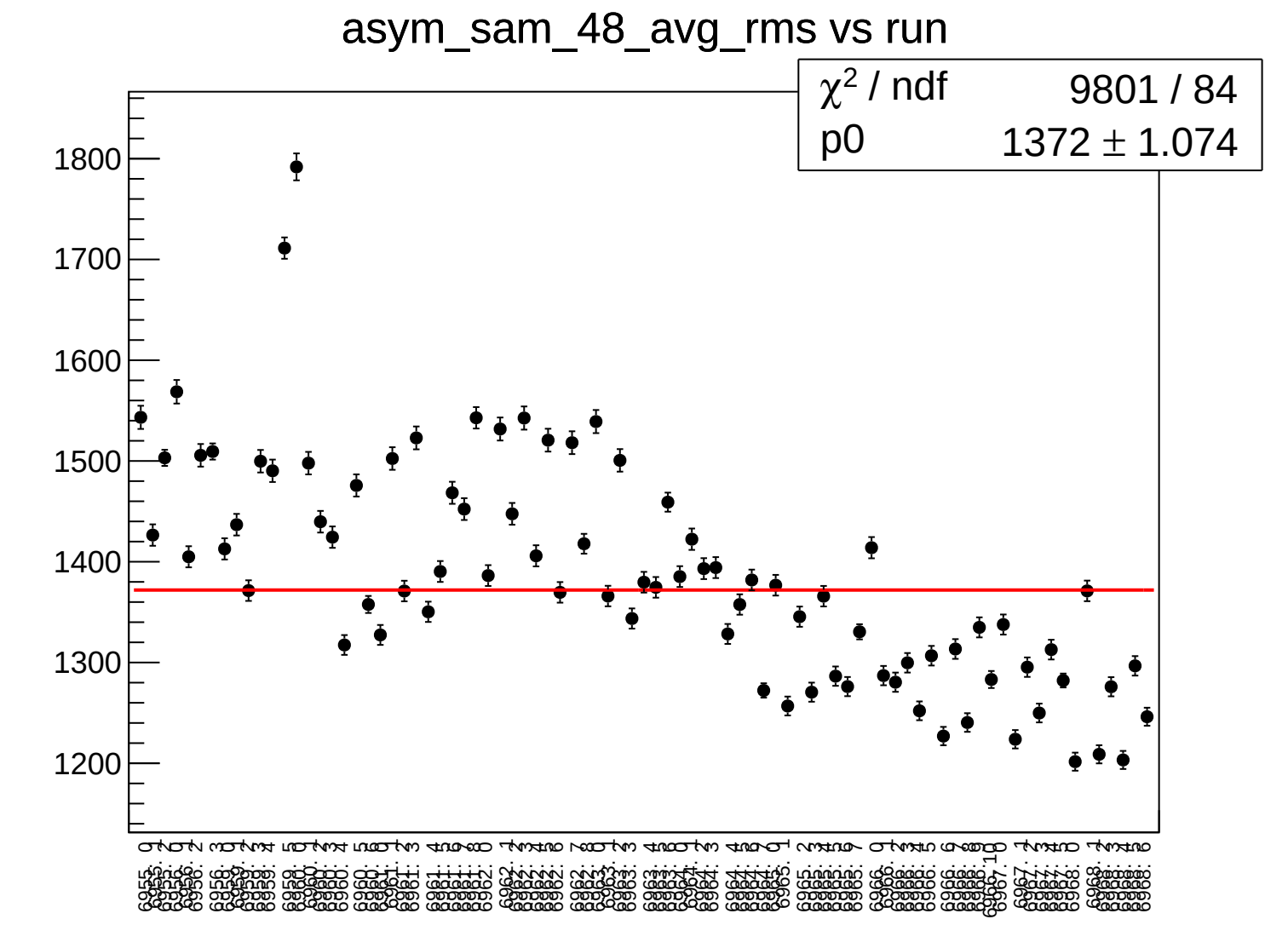

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1312 / 84
p0 163.4 ± 0.1275
180
175
170
165
160
155
150

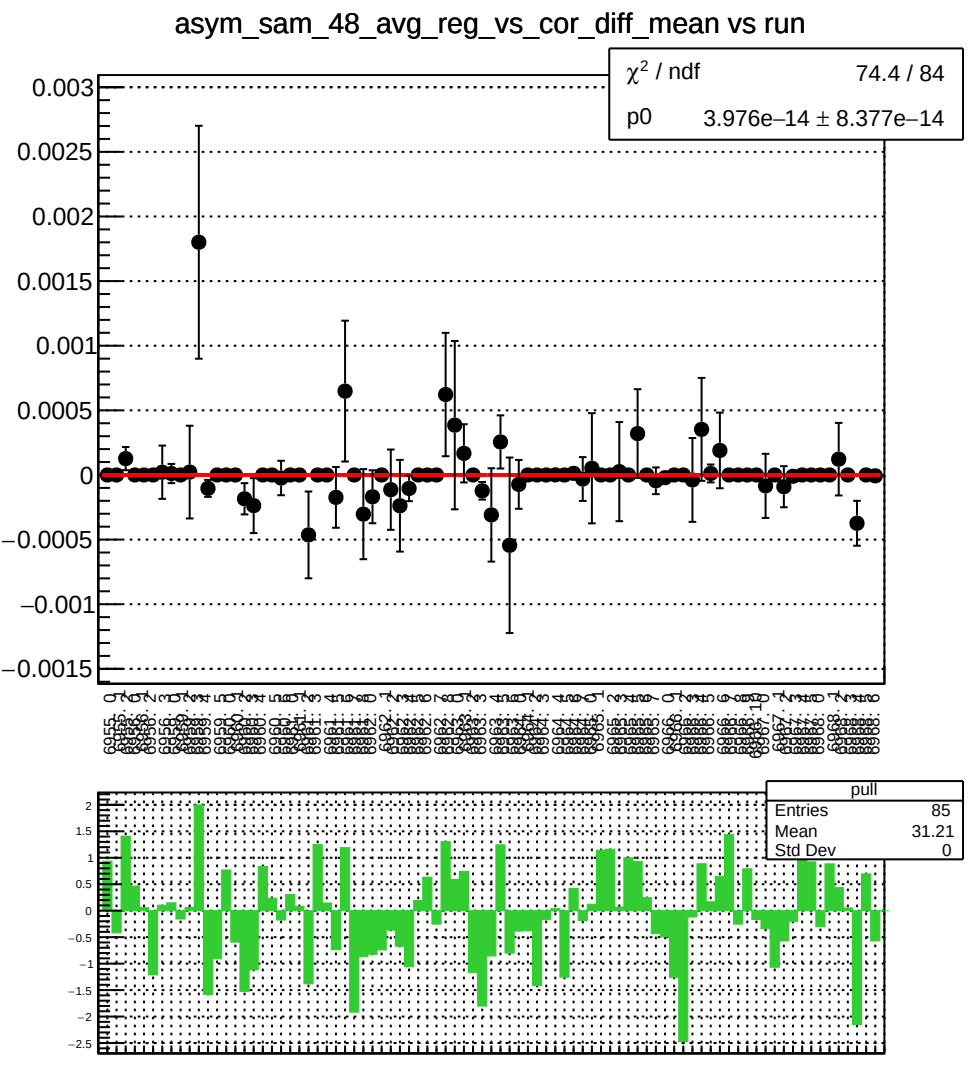

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.83 / 84
p0 −650.4 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 276
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.005079
Std Dev 0.963
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

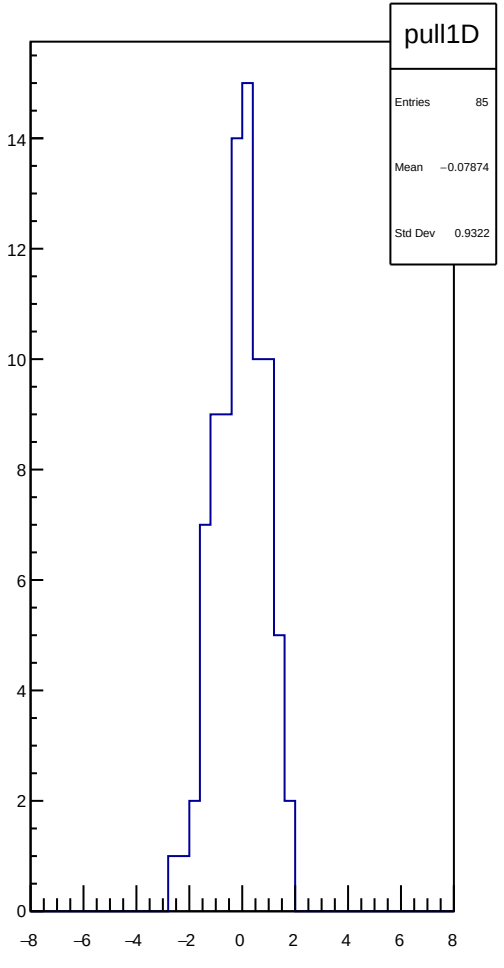

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 8503 / 84
p0 1365 ± 1.068
1800
1700
1600
1500
1400
1300
1200

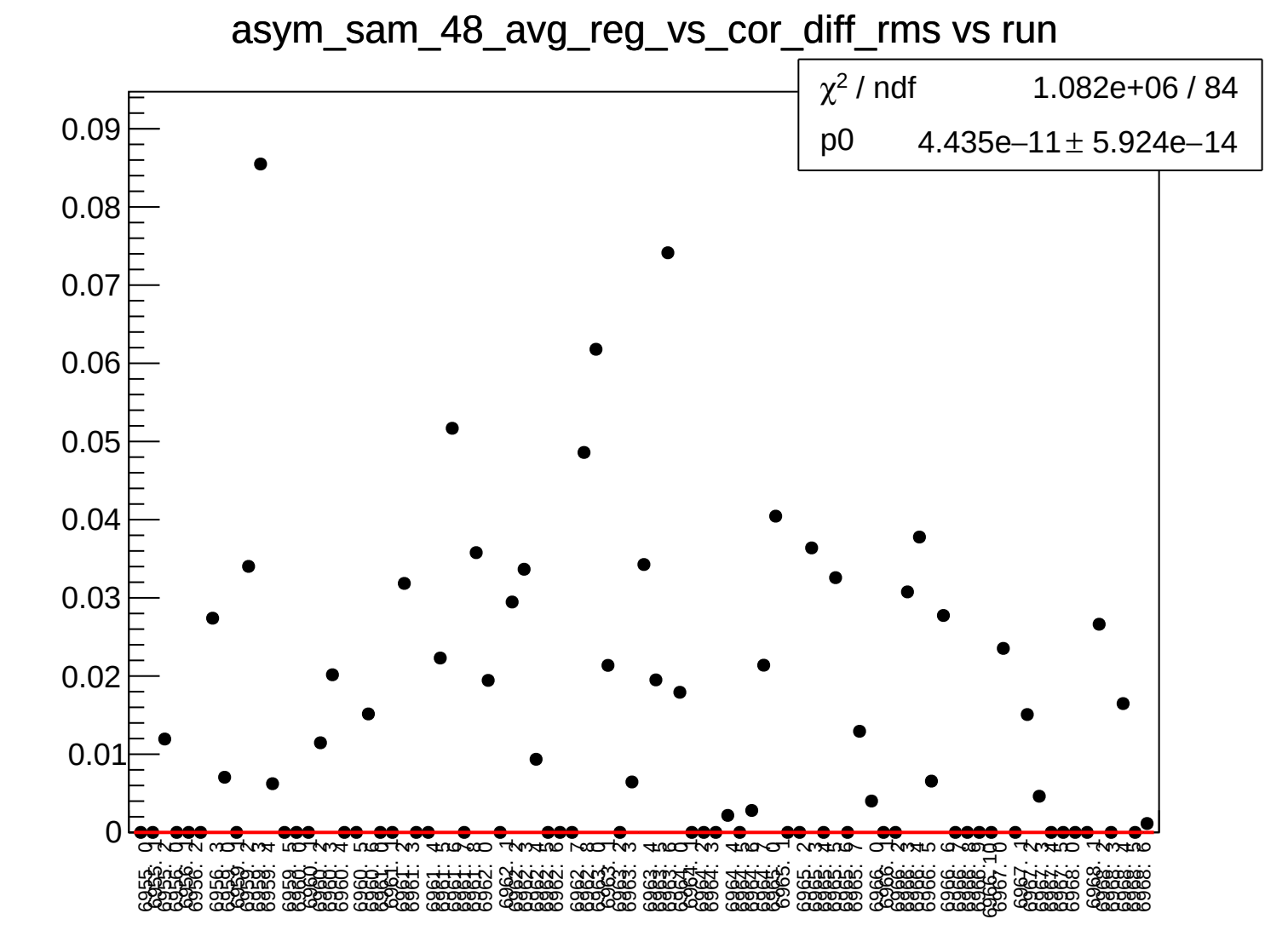

asym_sam_48_avg_mean vs run
χ² / ndf 81.65 / 84
p0 981.2 ± 1518
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 139.9
Std Dev 0
2
1
0
−1
−2

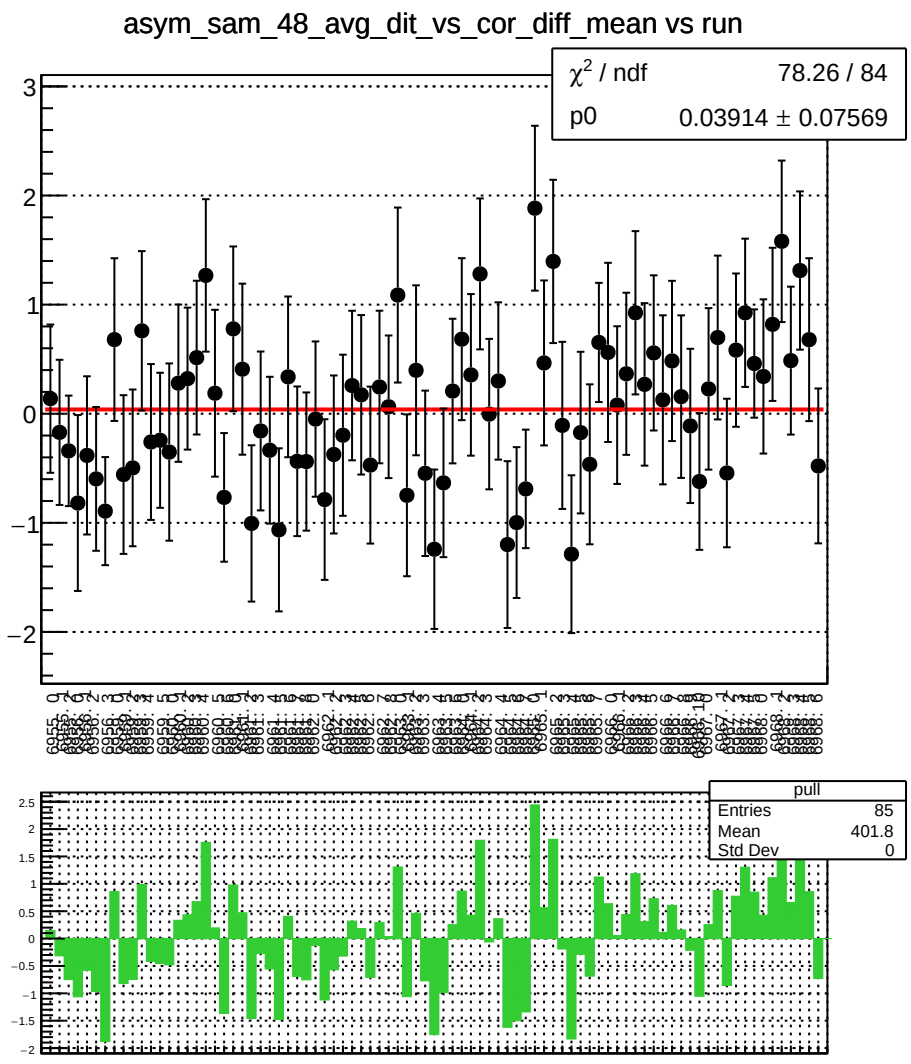

pull1D
Entries 85
Mean −0.007208
Std Dev 0.9801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

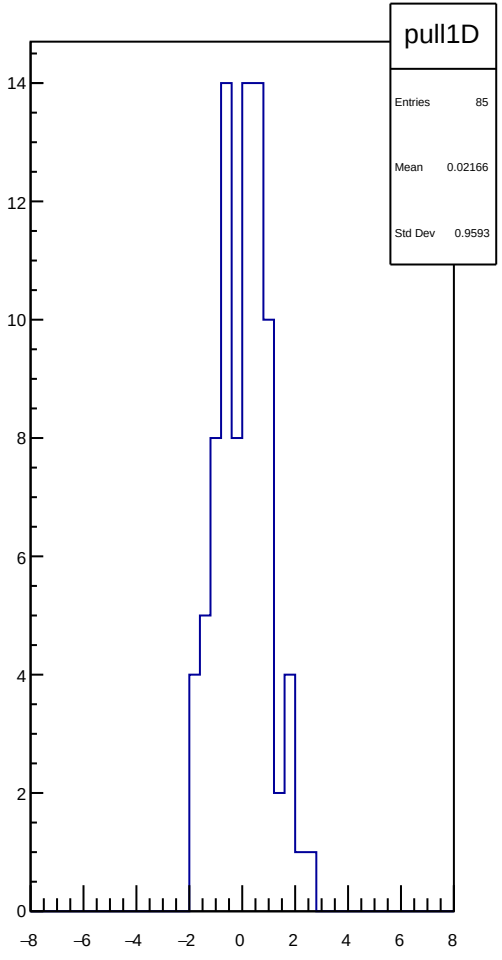

asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 9801 / 84
p0 1372 ± 1.074
1800
1700
1600
1500
1400
1300
1200

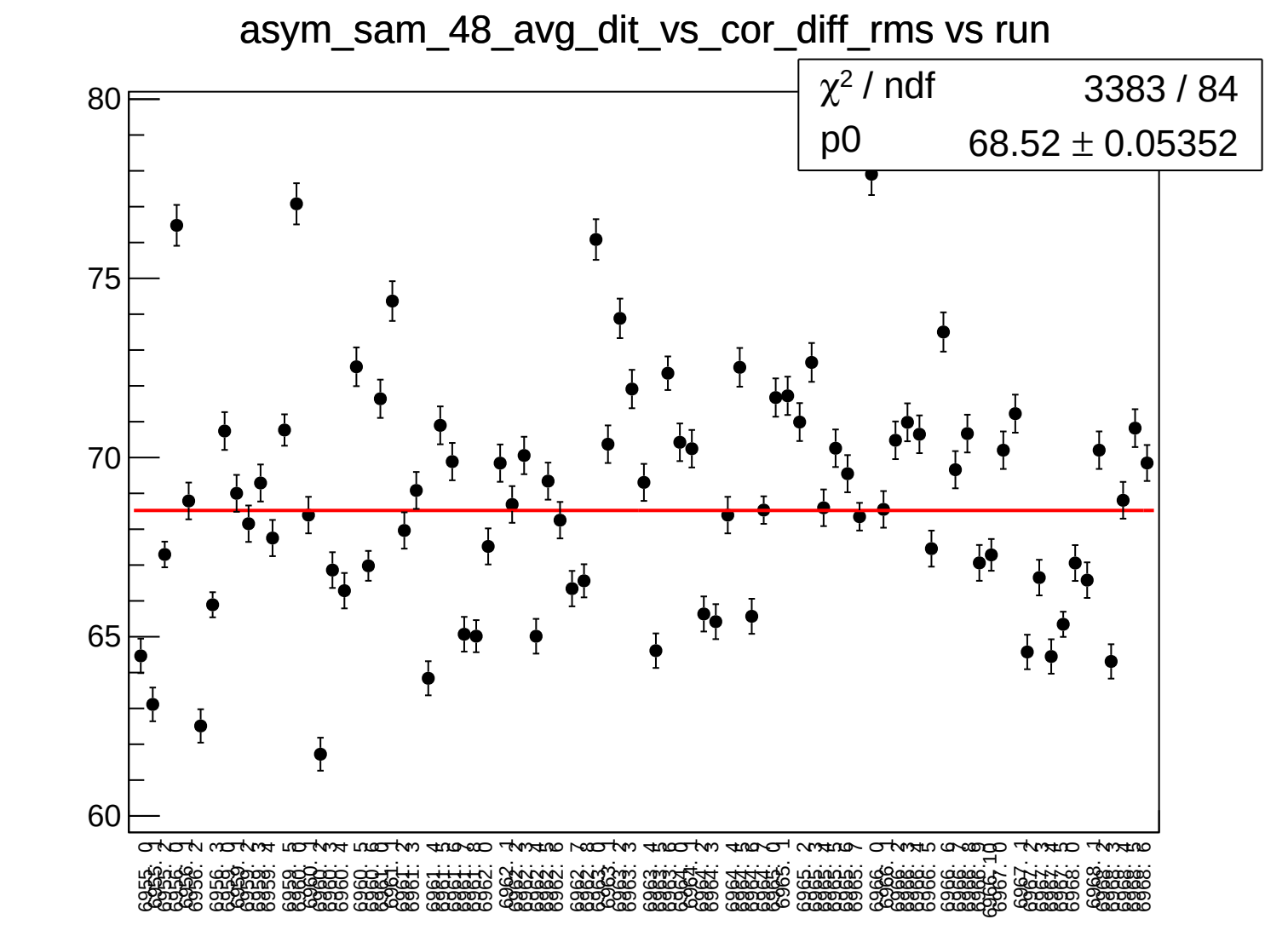

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.4 / 84
p0 3.976e−14 ± 8.377e−14
pull
Entries 85
Mean 31.21
Std Dev 0

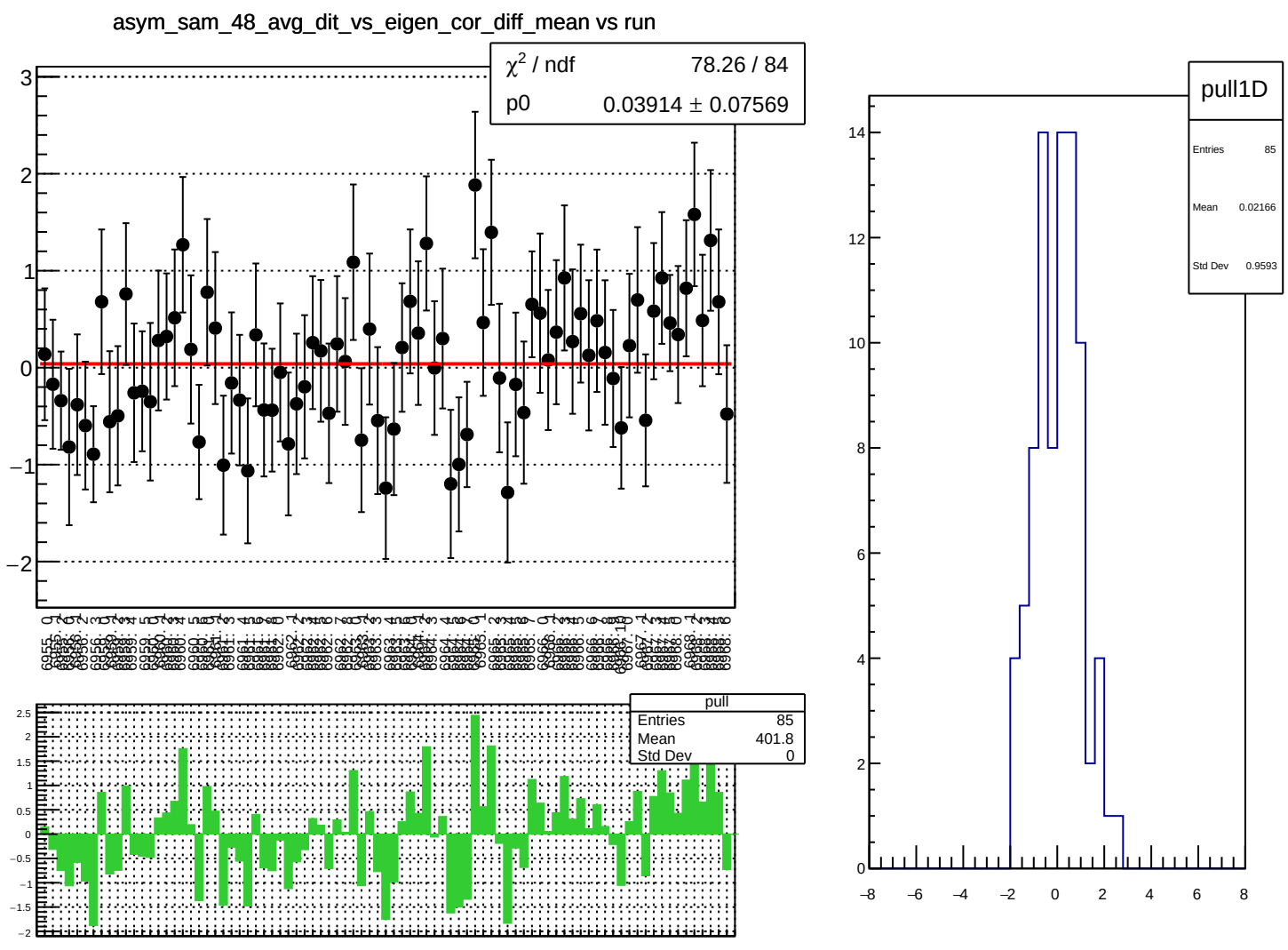

pull1D
Entries 85
Mean −0.07874
Std Dev 0.9322

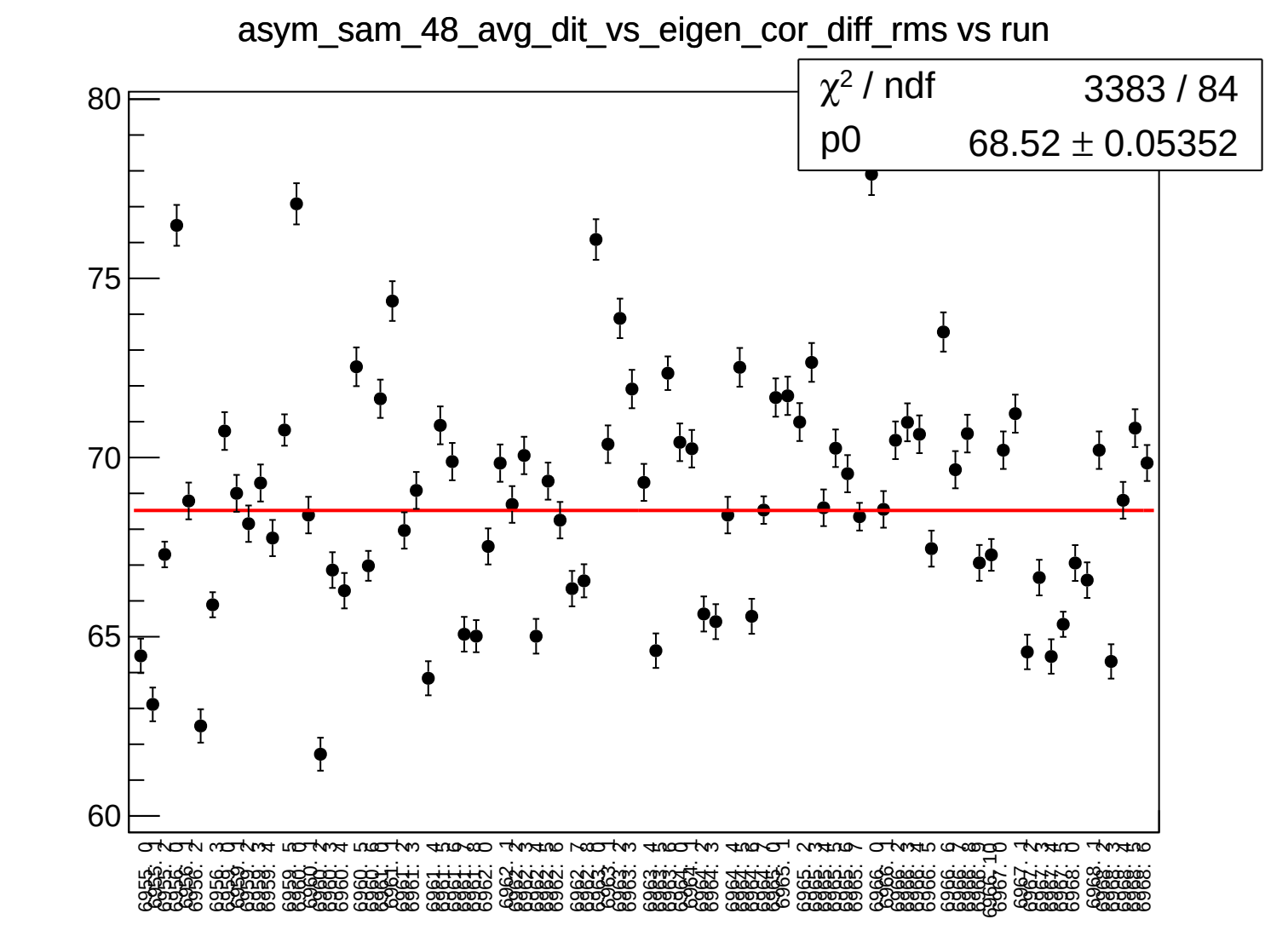

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.082e+06 / 84
p0 4.435e−11 ± 5.924e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

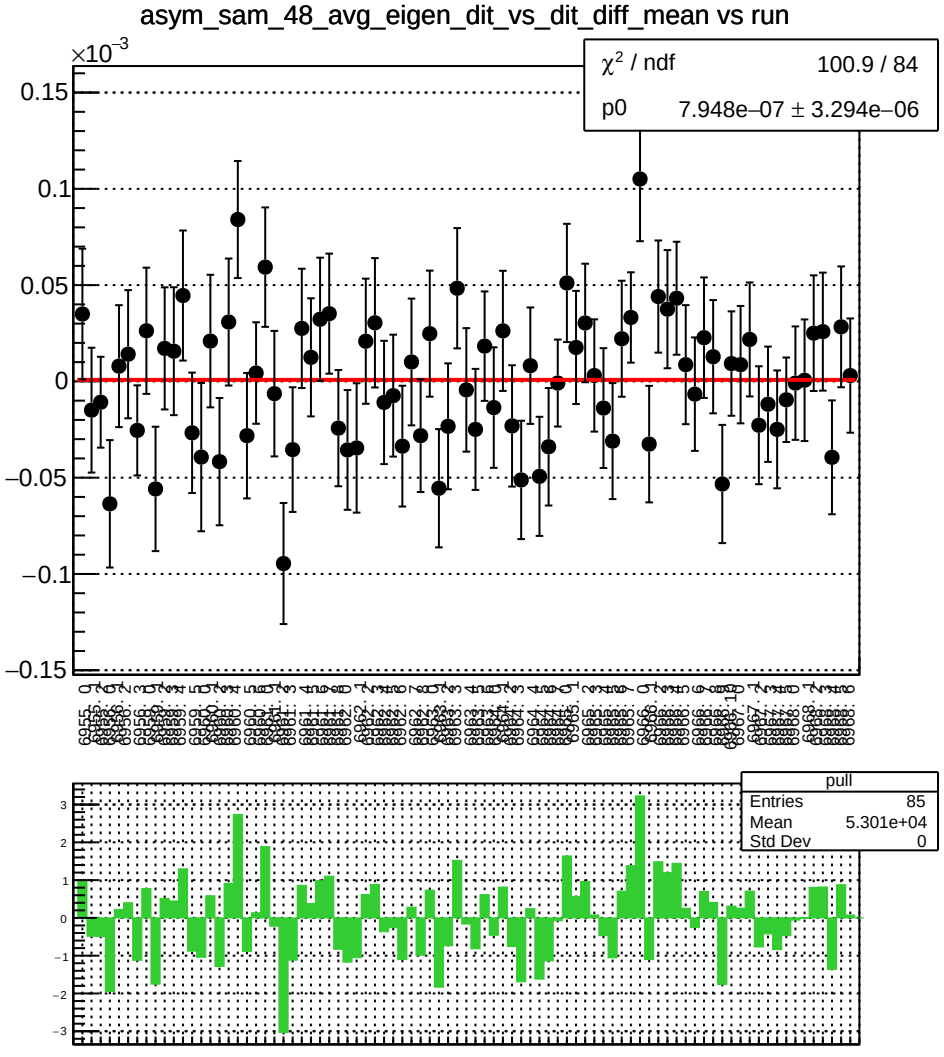

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.26 / 84
p0 0.03914 ± 0.07569
pull
Entries 85
Mean 401.8
Std Dev 0

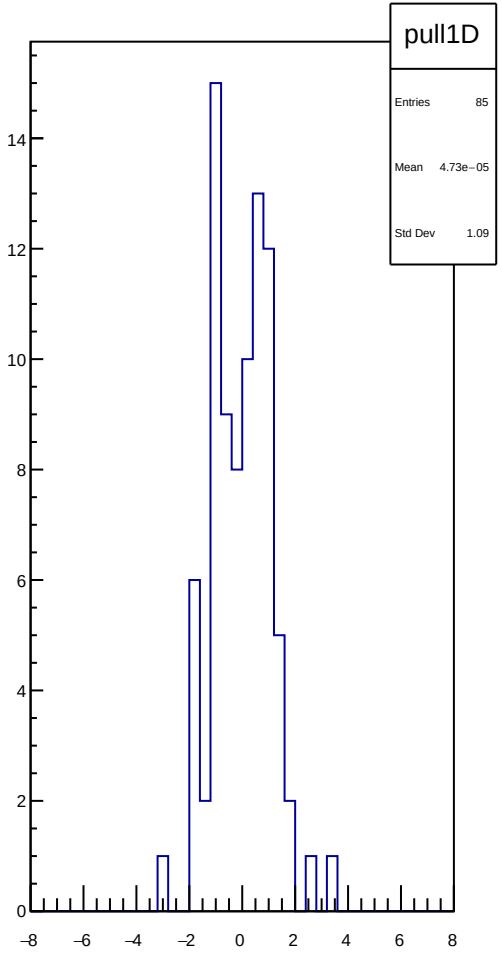

pull1D
Entries 85
Mean 0.02166
Std Dev 0.9593

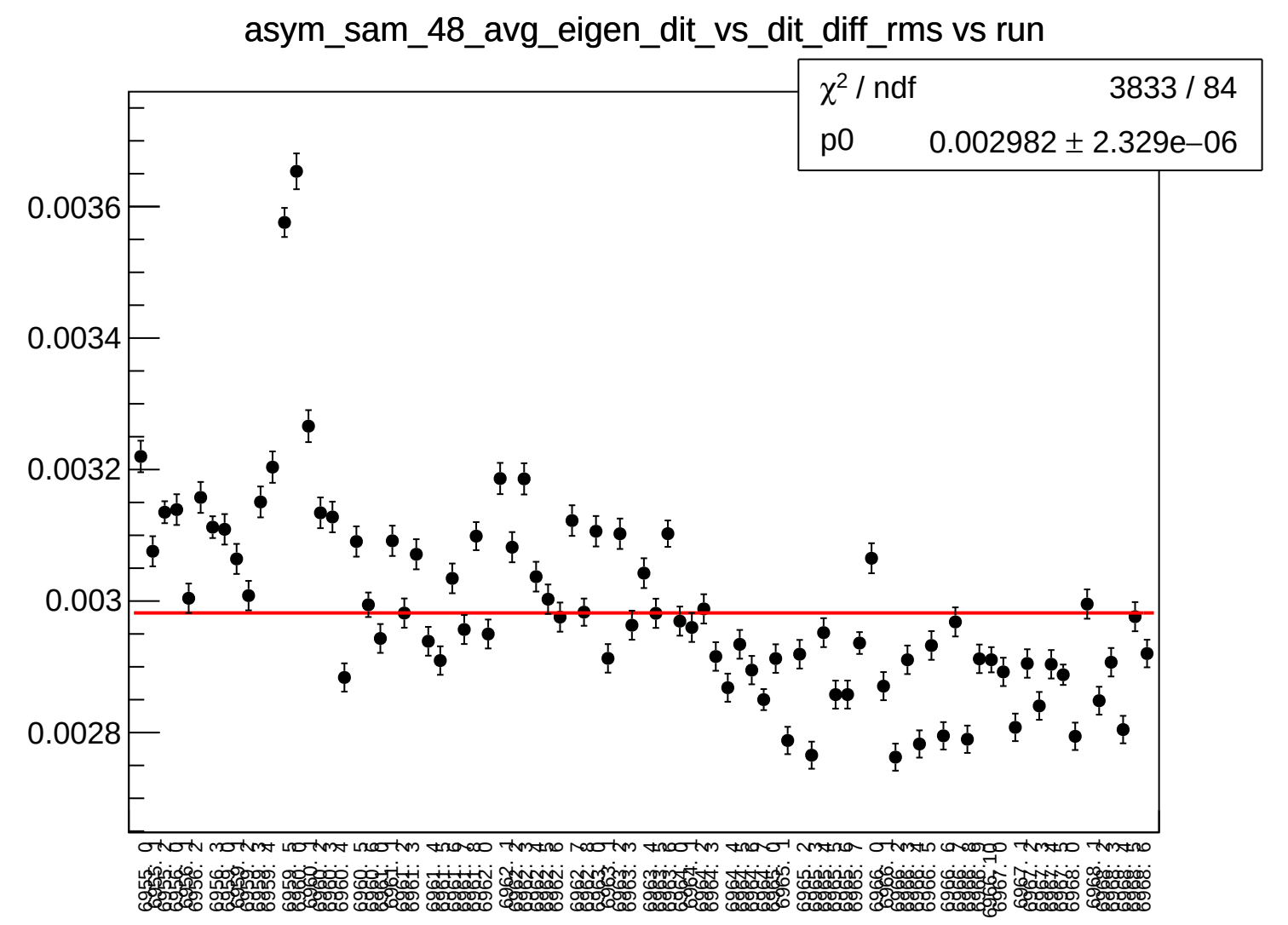

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3383 / 84
p0 68.52 ± 0.05352
80
75
70
65
60

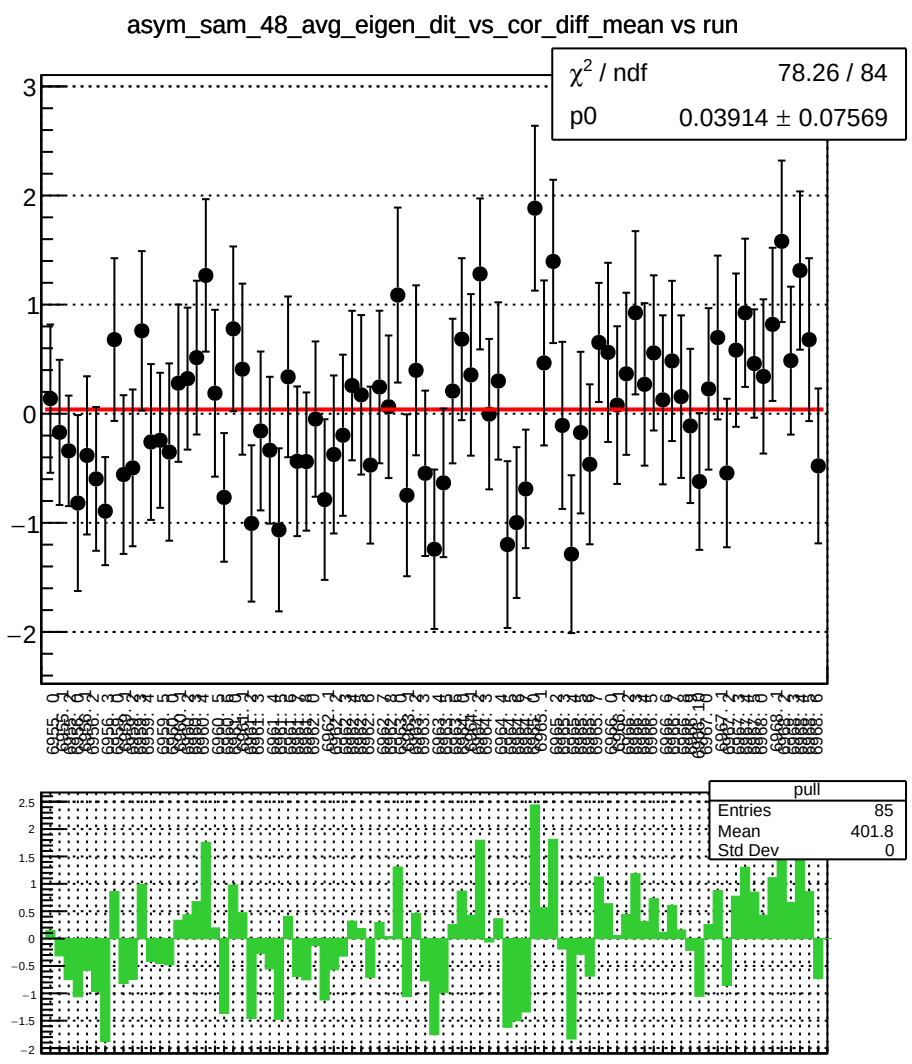

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.26 / 84
p0 0.03914 ± 0.07569
pull
Entries 85
Mean 401.8
Std Dev 0
pull1D
Entries 85
Mean 0.02166
Std Dev 0.9593

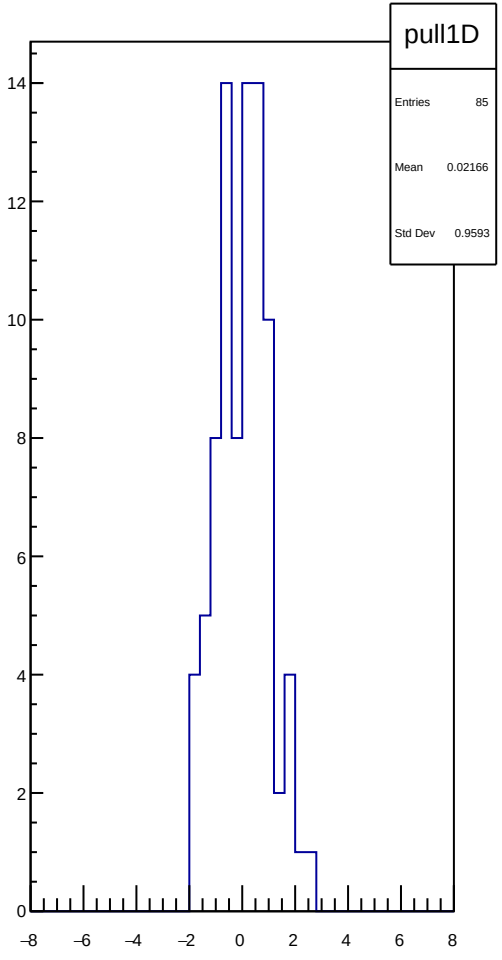

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3383 / 84
p0 68.52 ± 0.05352
80
75
70
65
60

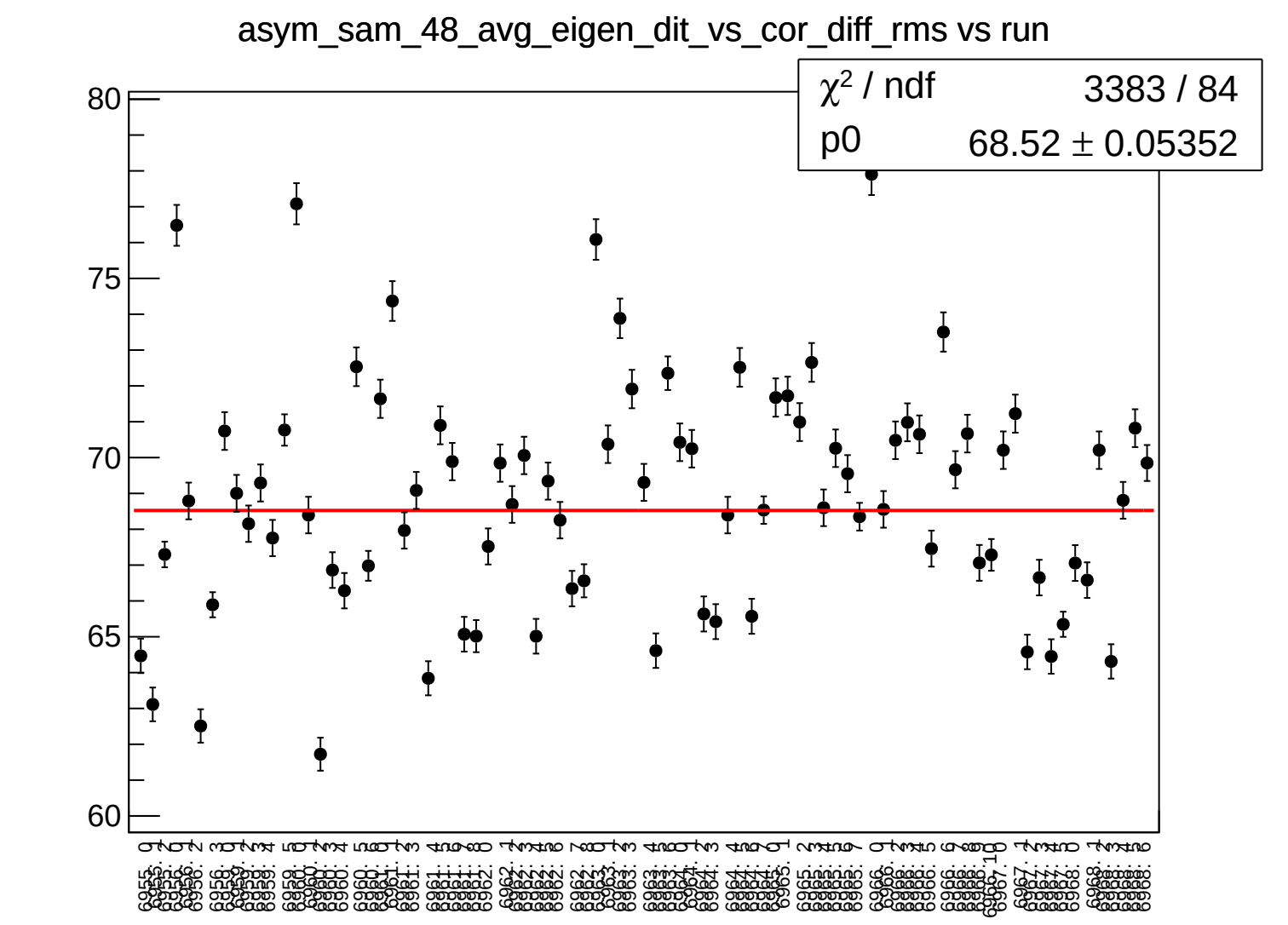

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.9 / 84
p0 7.948e−07 ± 3.294e−06
pull
Entries 85
Mean 5.301e+04
Std Dev 0

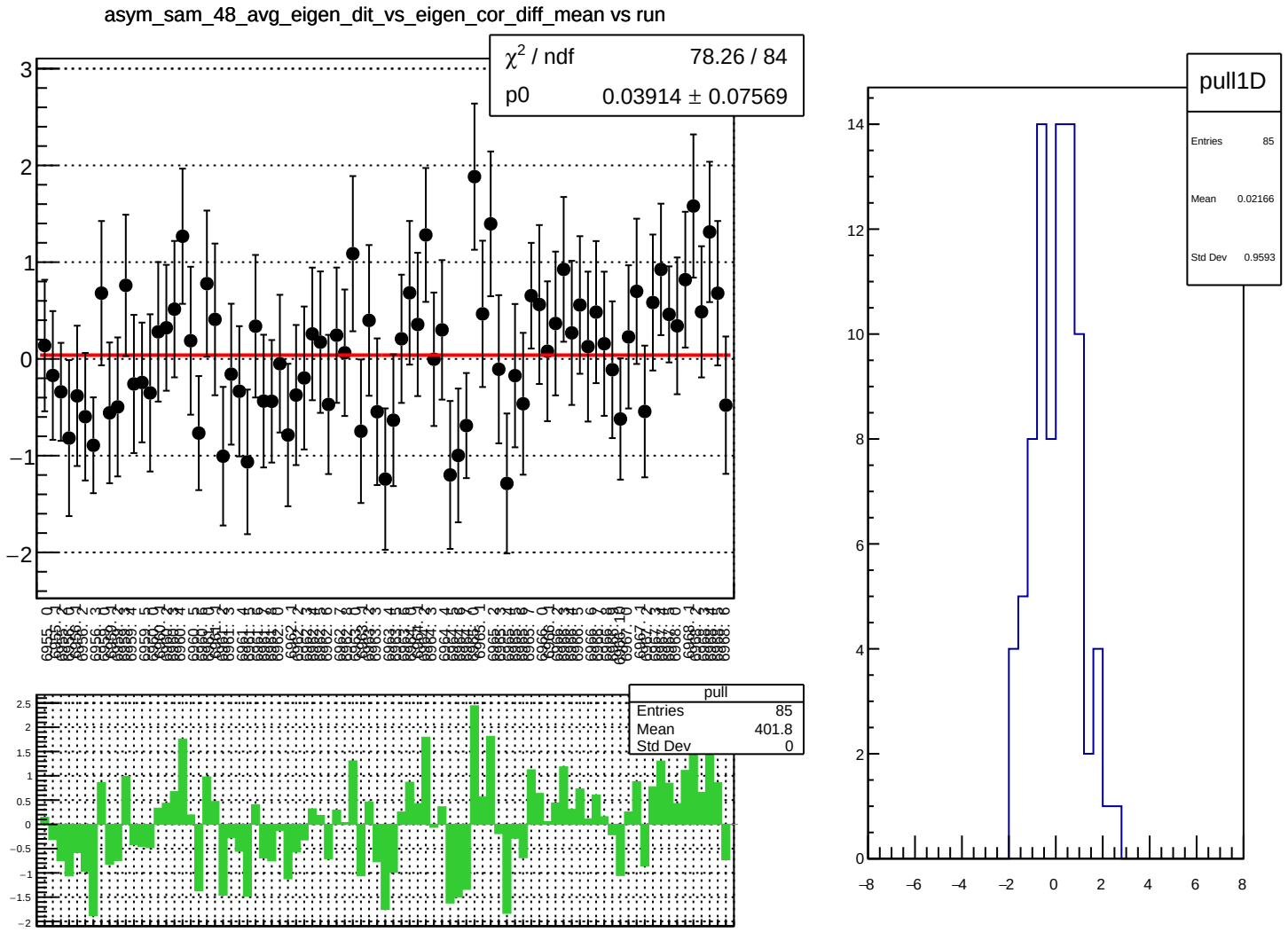

pull1D
Entries 85
Mean 4.73e−05
Std Dev 1.09

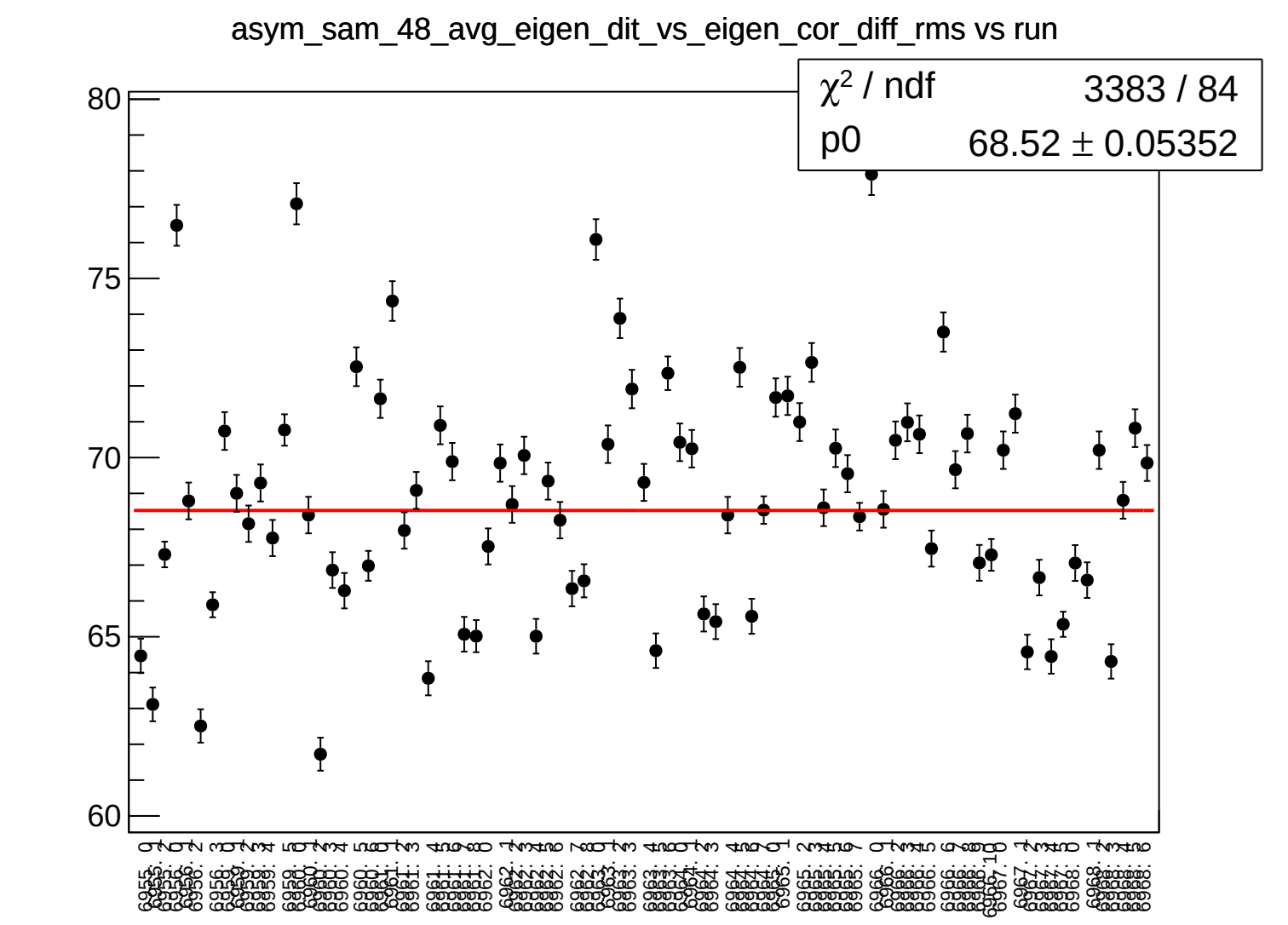

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3833 / 84
p0 0.002982 ± 2.329e−06
0.0036
0.0034
0.0032
0.003
0.0028

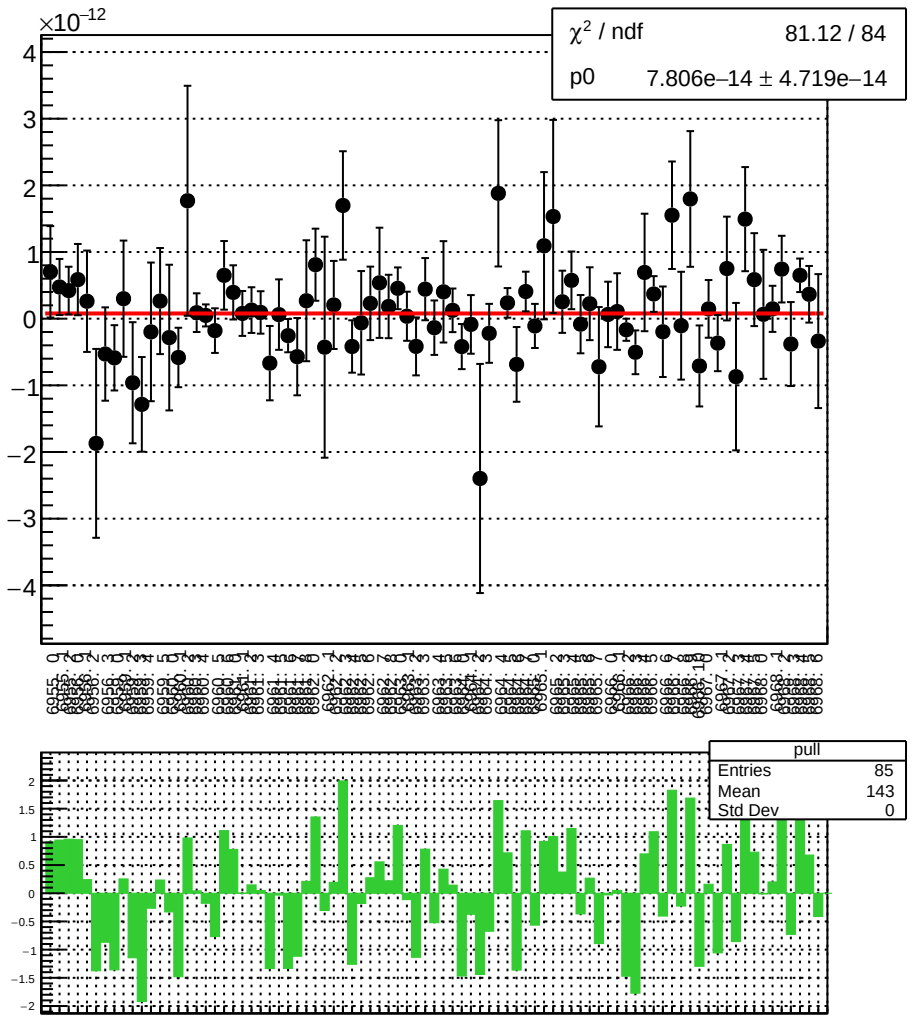

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.26 / 84
p0 0.03914 ± 0.07569
pull
Entries 85
Mean 401.8
Std Dev 0

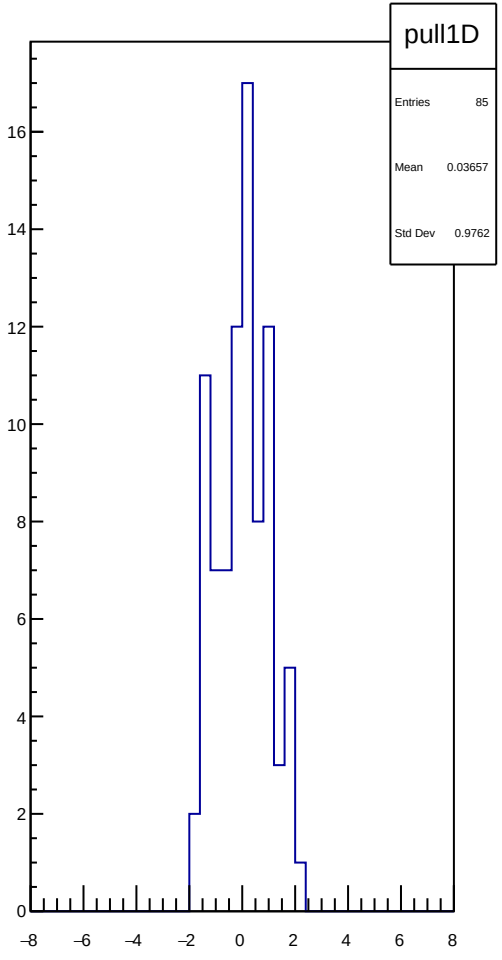

pull1D
Entries 85
Mean 0.02166
Std Dev 0.9593

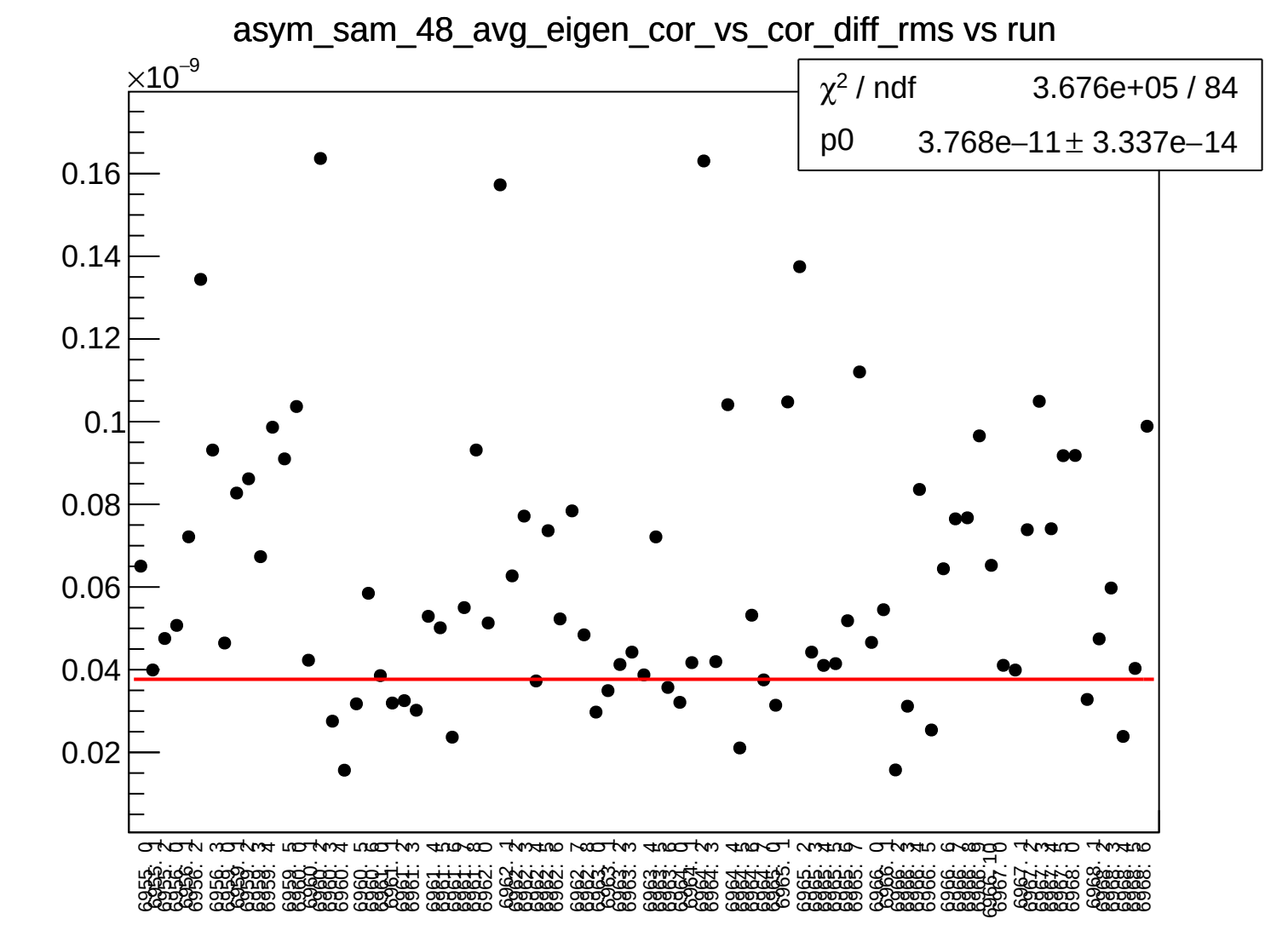

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3383 / 84
p0 68.52 ± 0.05352
80
75
70
65
60

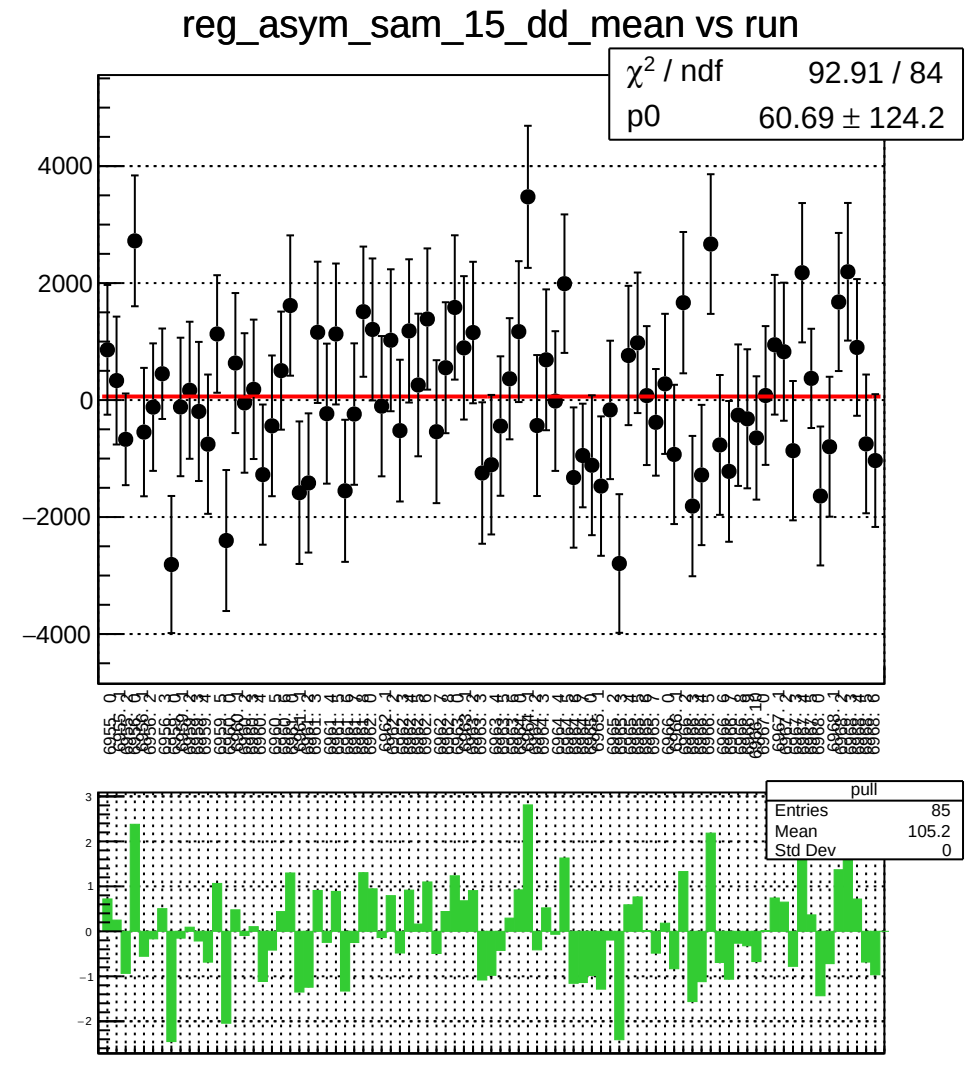

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.26 / 84
p0 0.03914 ± 0.07569
pull
Entries 85
Mean 401.8
Std Dev 0
pull1D
Entries 85
Mean 0.02166
Std Dev 0.9593

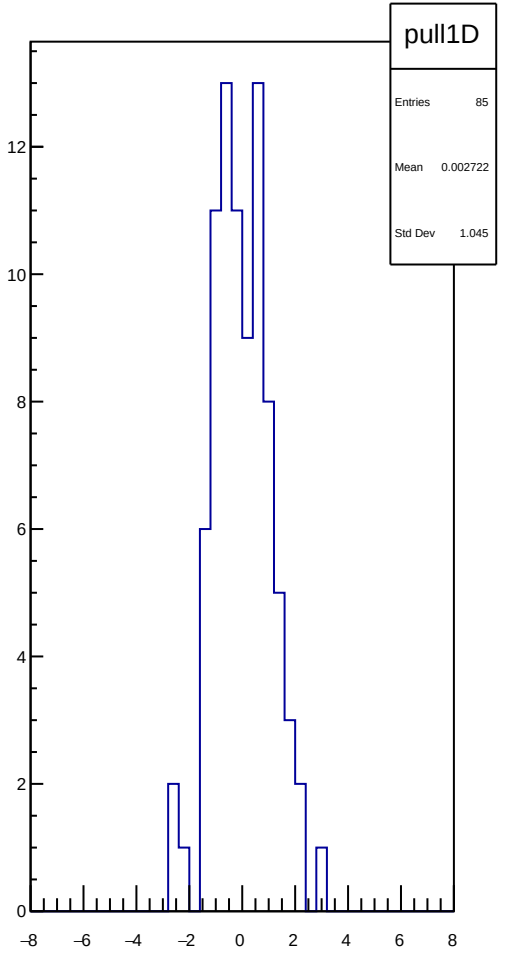

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3383 / 84
p0 68.52 ± 0.05352
80
75
70
65
60

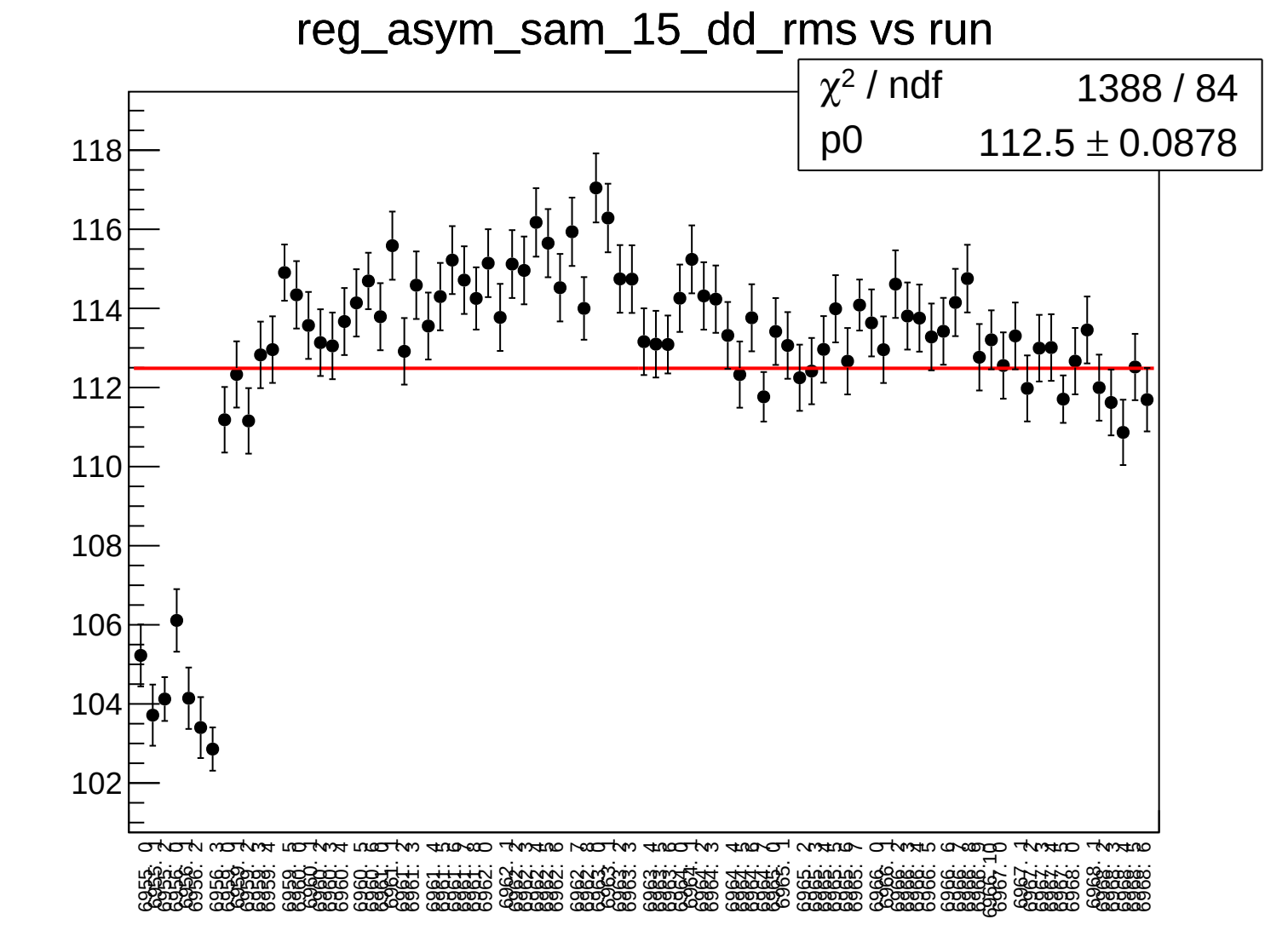

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.12 / 84
p0 7.806e−14 ± 4.719e−14
pull
Entries 85
Mean 143
Std Dev 0

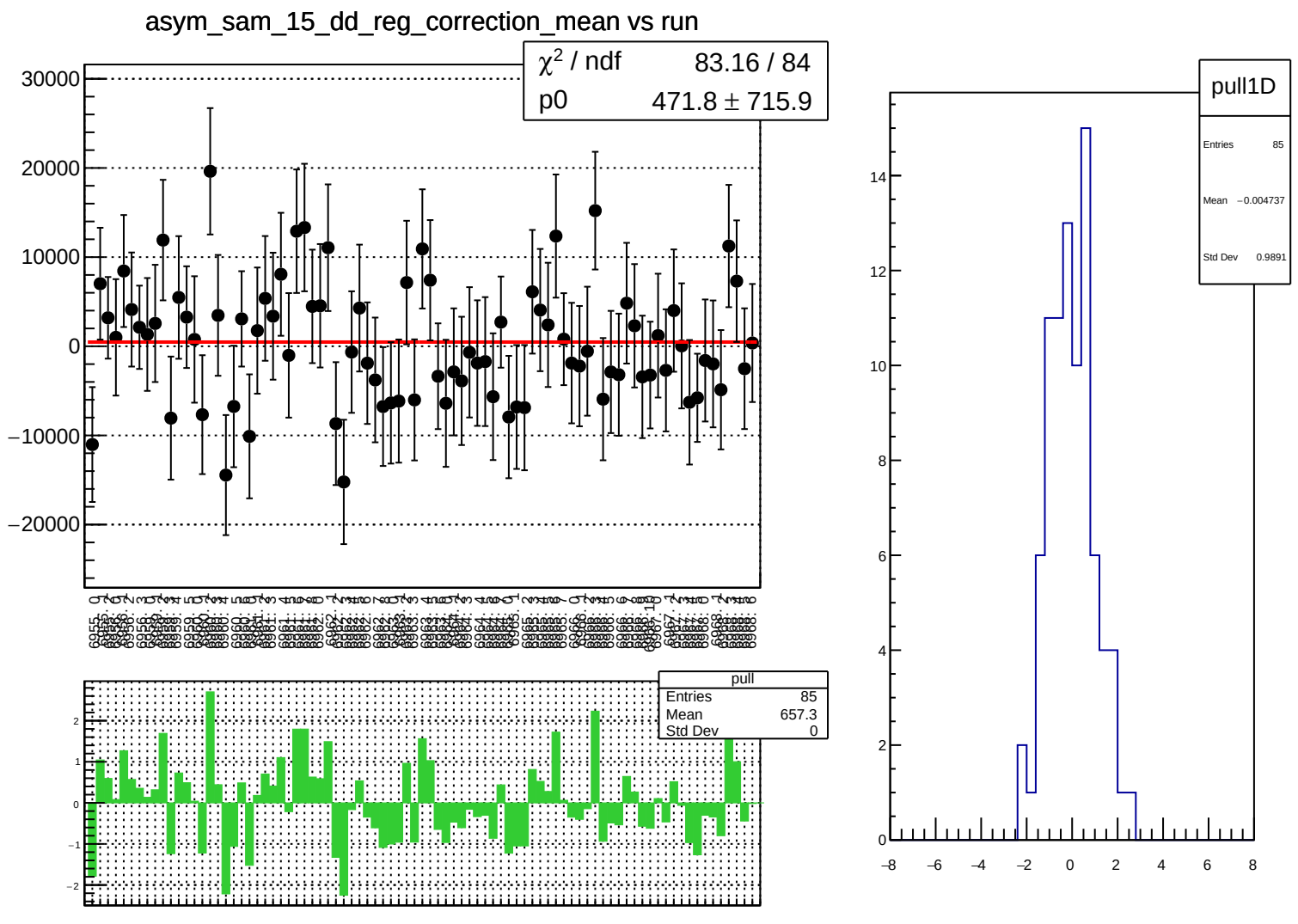

pull1D
Entries 85
Mean 0.03657
Std Dev 0.9762

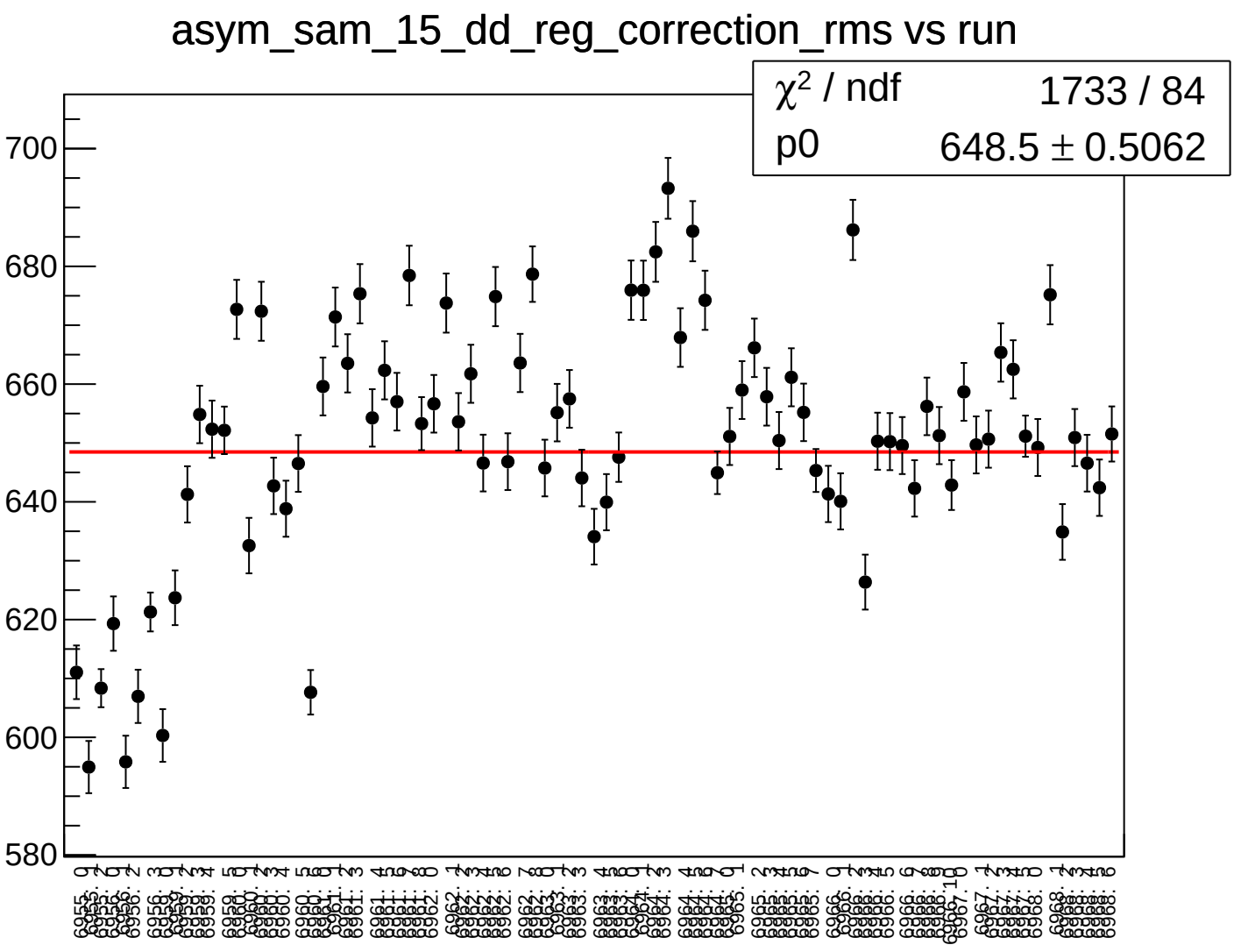

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.676e+05 / 84
p0 3.768e−11 ± 3.337e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

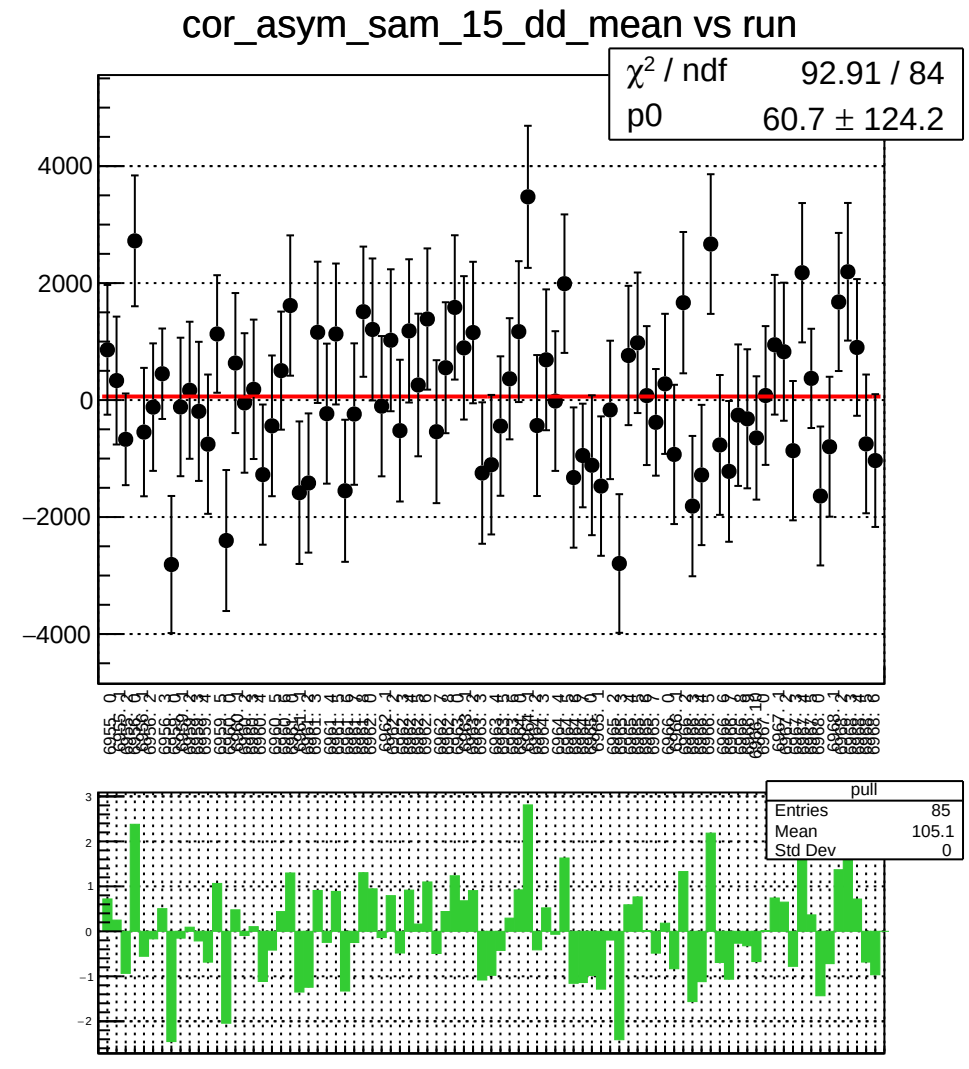

reg_asym_sam_15_dd_mean vs run
χ² / ndf 92.91 / 84
p0 60.69 ± 124.2
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 105.2
Std Dev 0
3
2
1
0
−1
−2

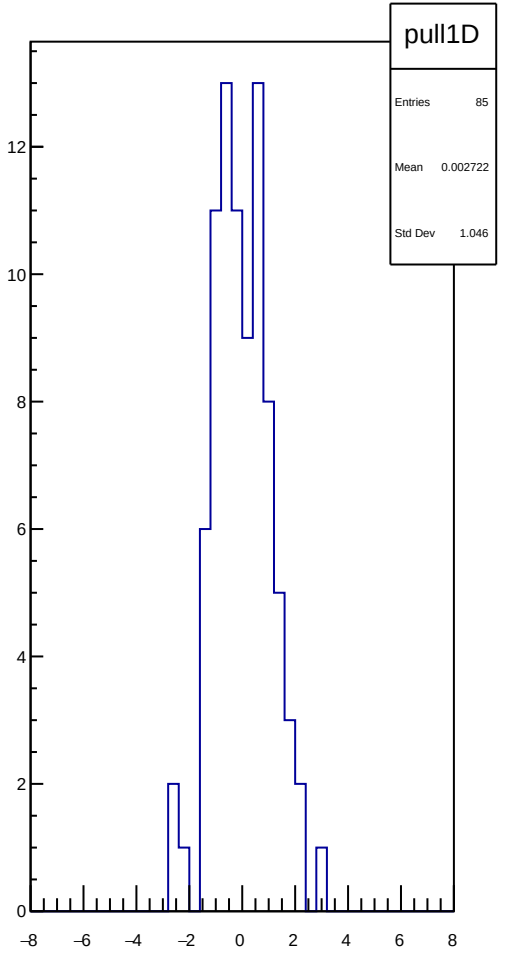

pull1D
Entries 85
Mean 0.002722
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

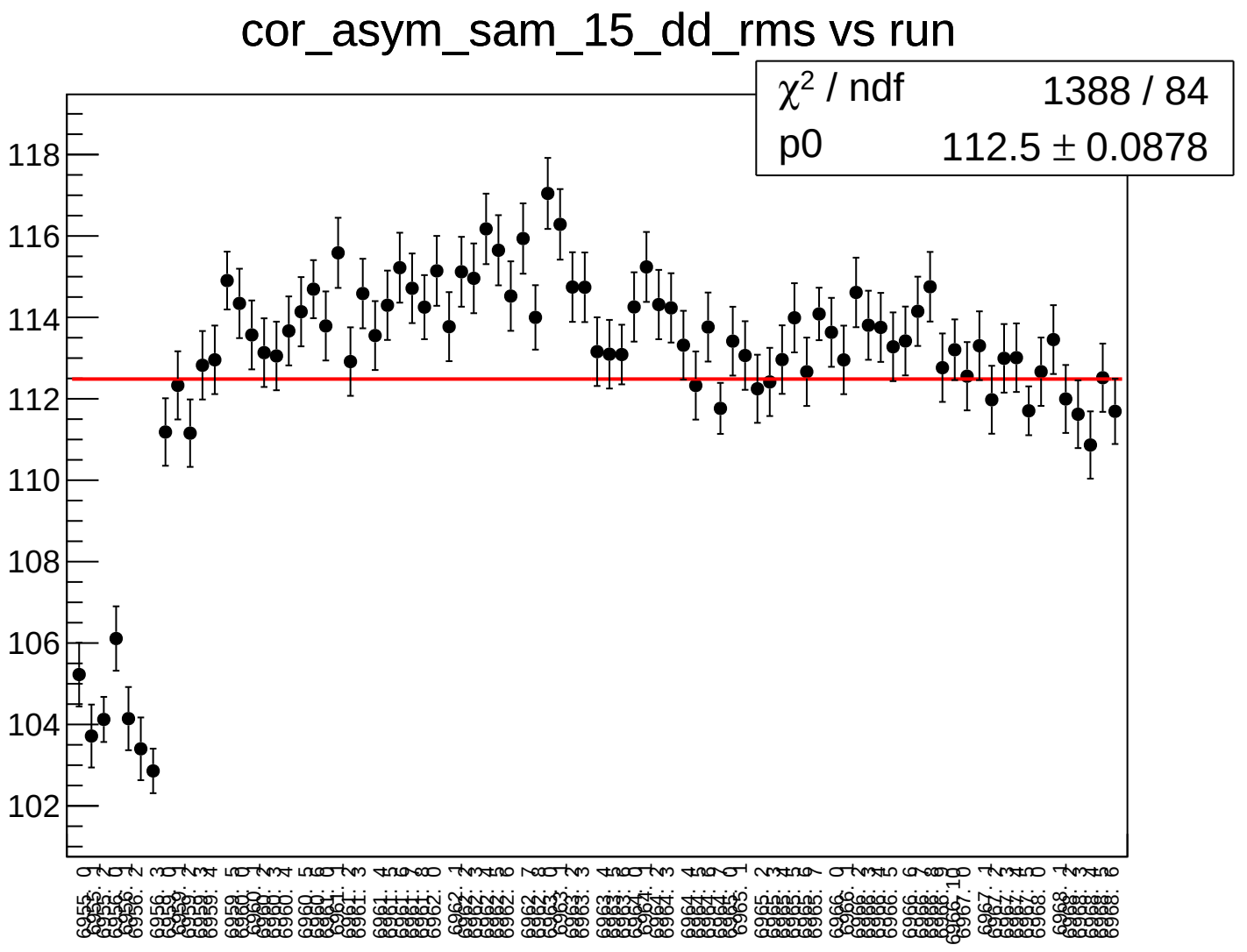

reg_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 1388 / 84
p0 112.5 ± 0.0878
118
116
114
112
110
108
106
104
102

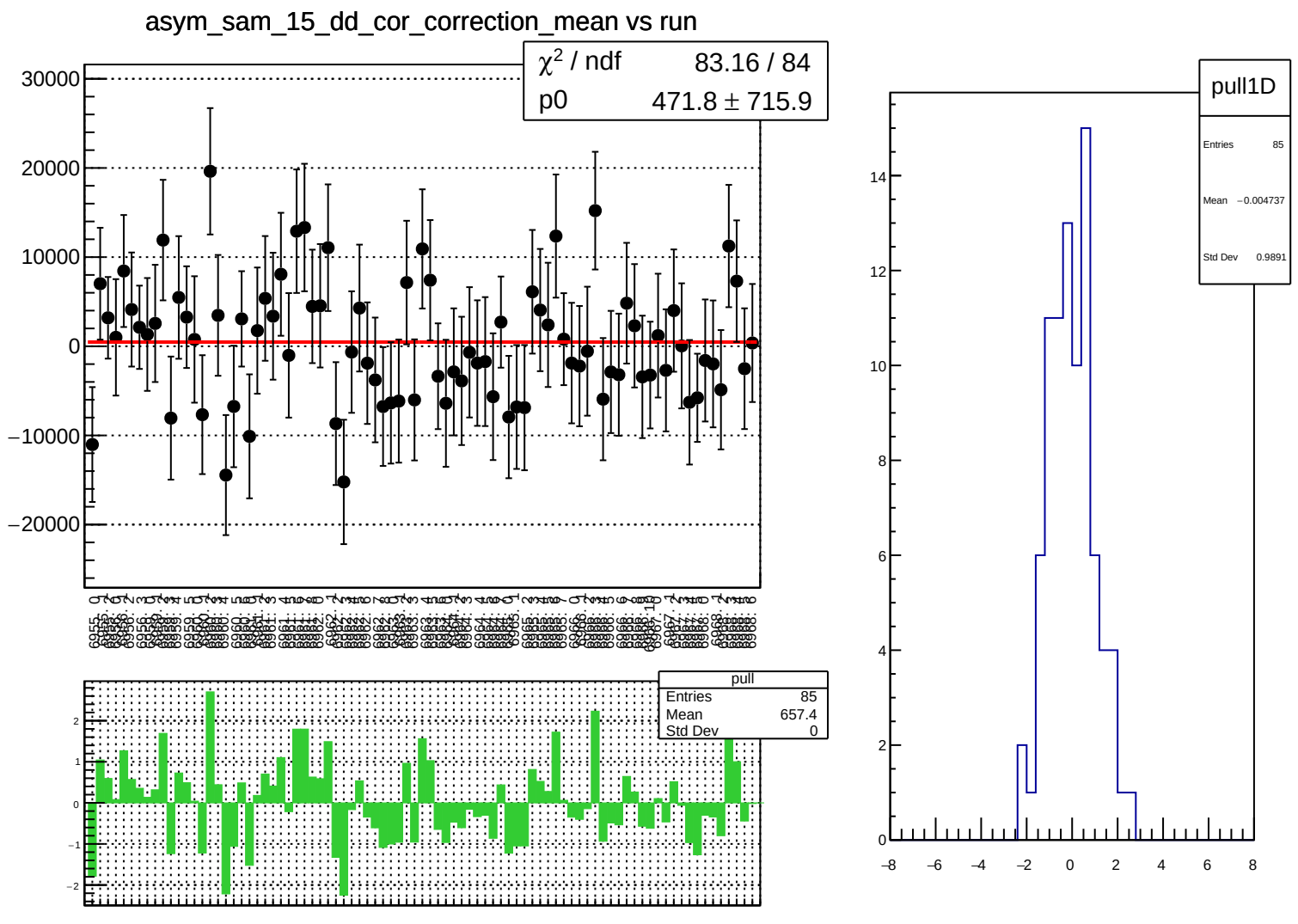

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 83.16 / 84
p0 471.8 ± 715.9
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 657.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.004737
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

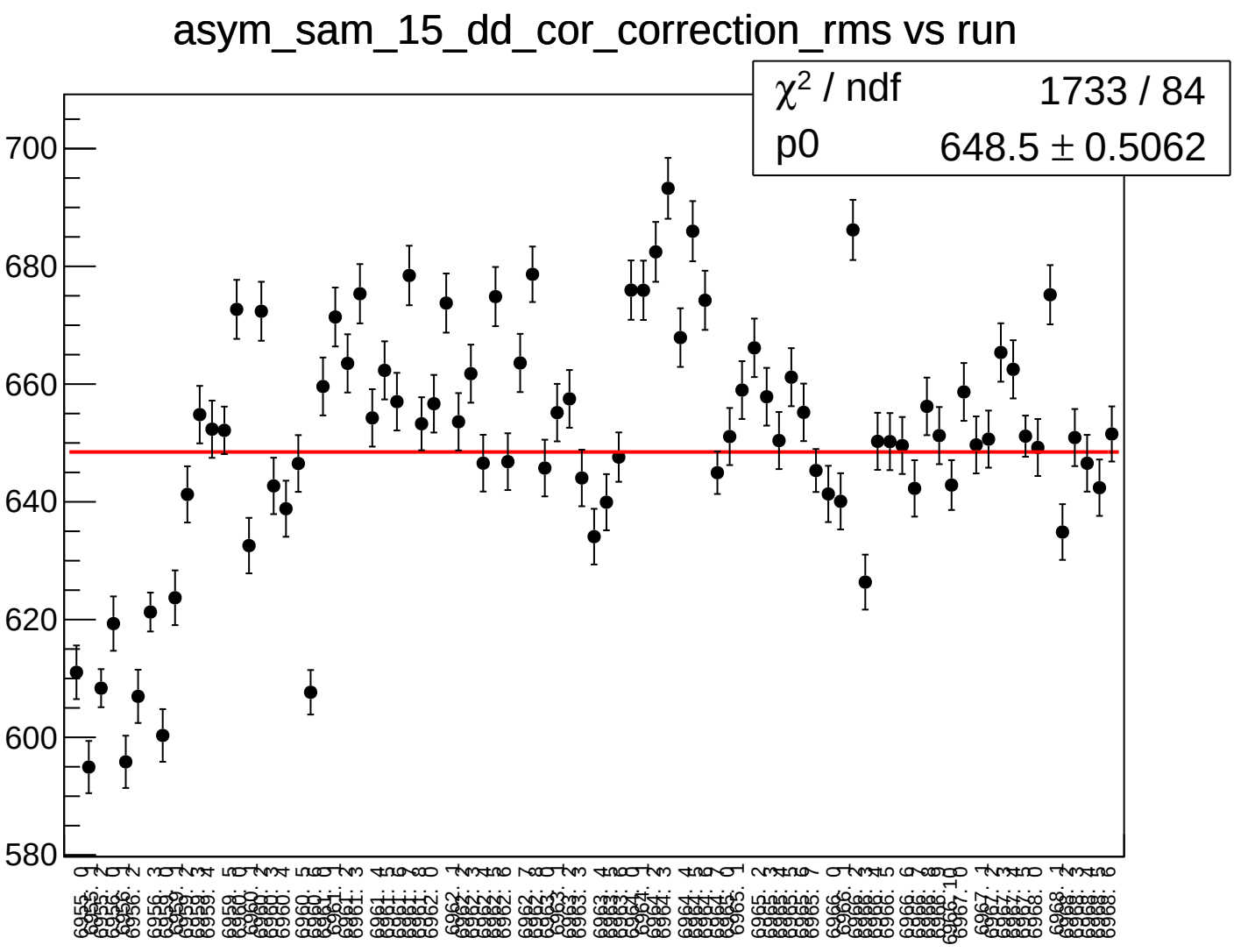

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 1733 / 84
p0 648.5 ± 0.5062
700
680
660
640
620
600
580

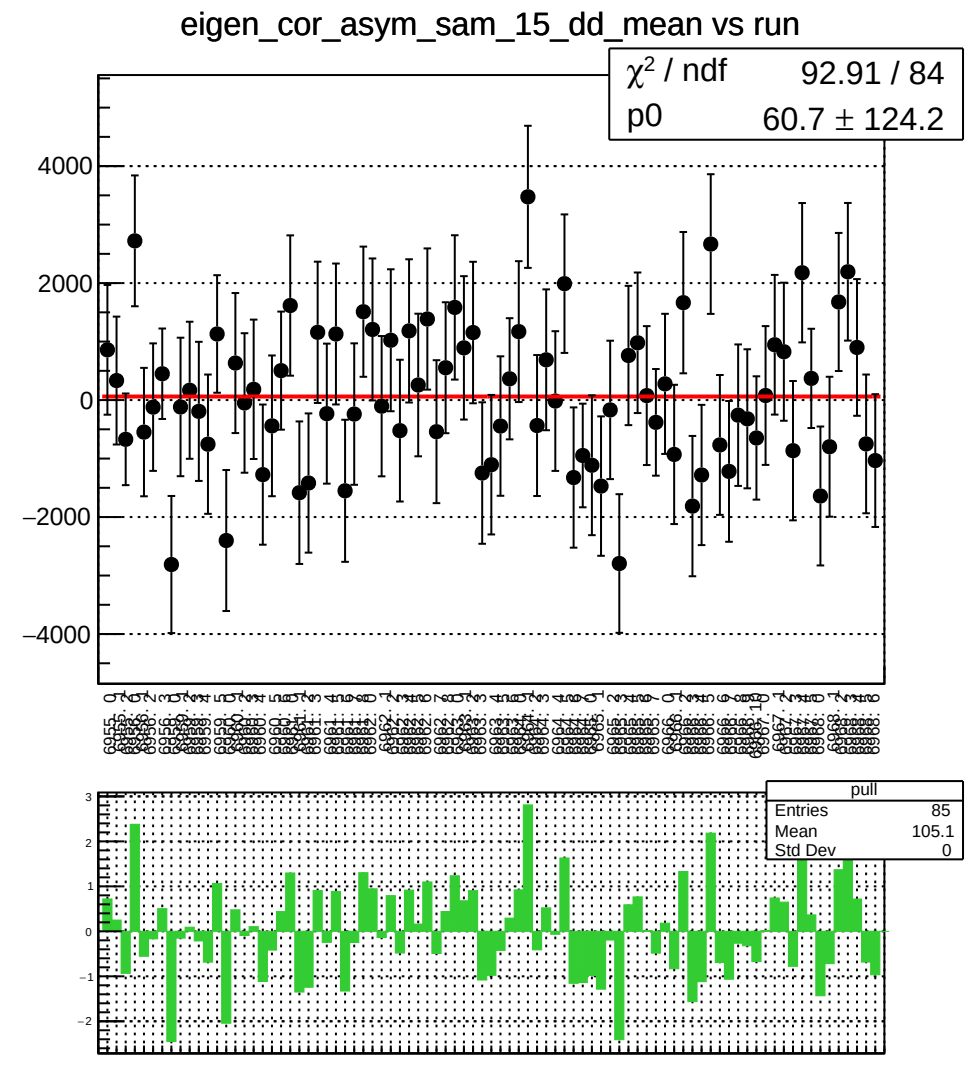

cor_asym_sam_15_dd_mean vs run
χ² / ndf 92.91 / 84
p0 60.7 ± 124.2
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 105.1
Std Dev 0
3
2
1
0
−1
−2

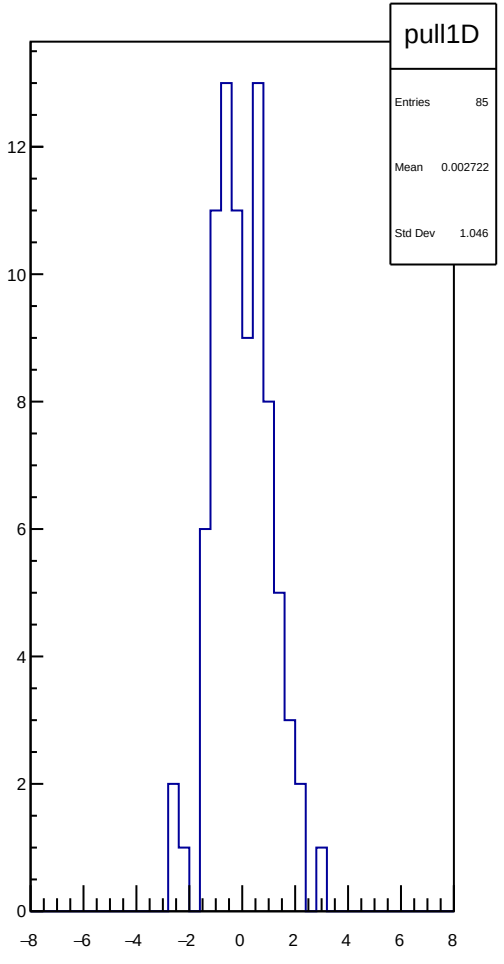

pull1D
Entries 85
Mean 0.002722
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

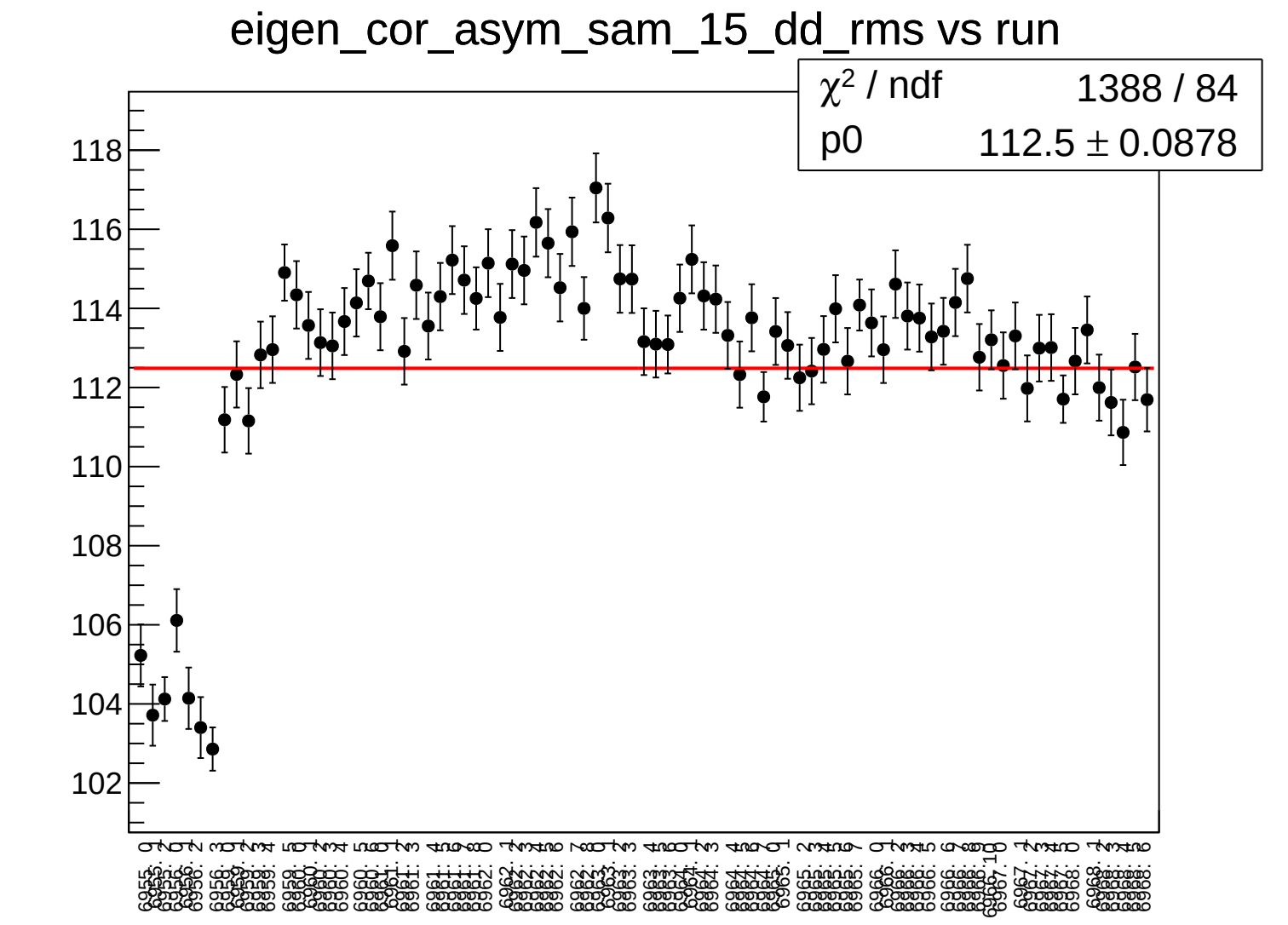

cor_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 1388 / 84
p0 112.5 ± 0.0878
118
116
114
112
110
108
106
104
102

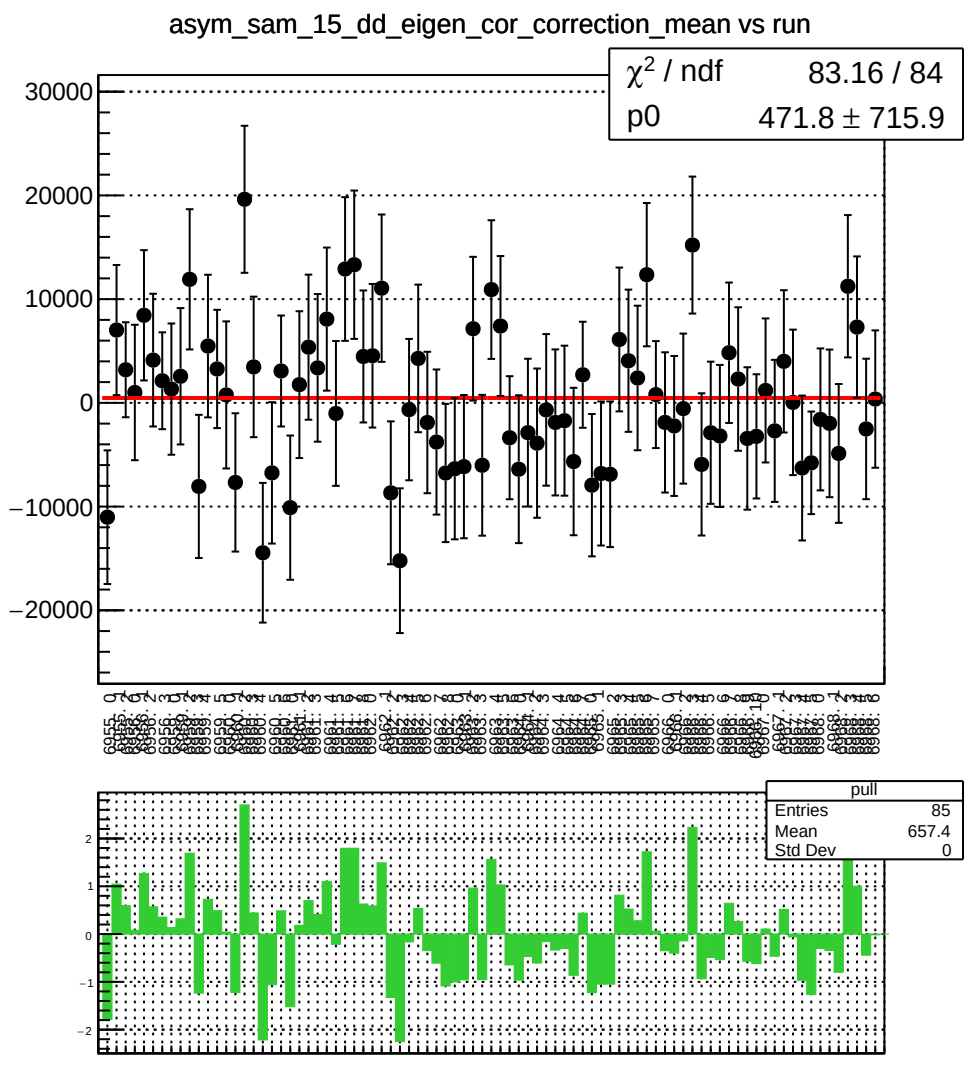

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 83.16 / 84
p0 471.8 ± 715.9
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 657.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.004737
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

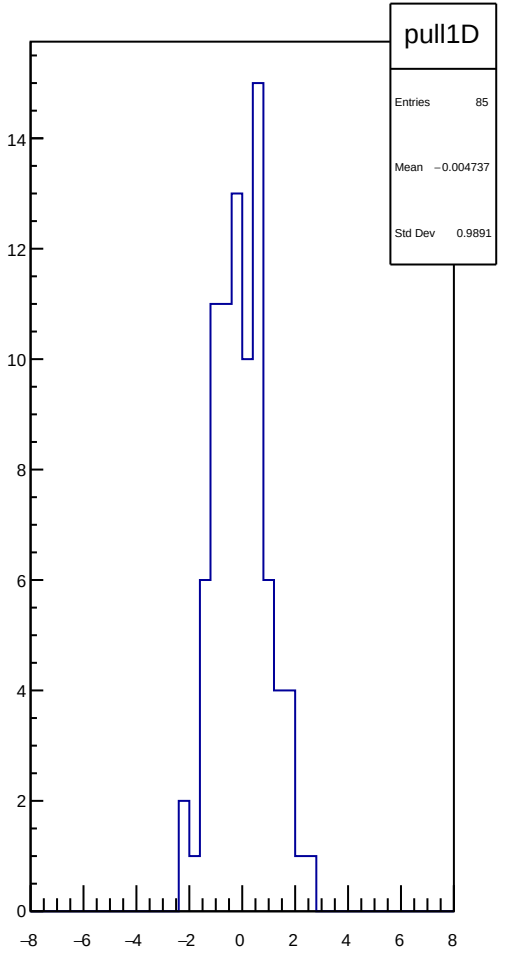

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1733 / 84
p0 648.5 ± 0.5062
700
680
660
640
620
600
580

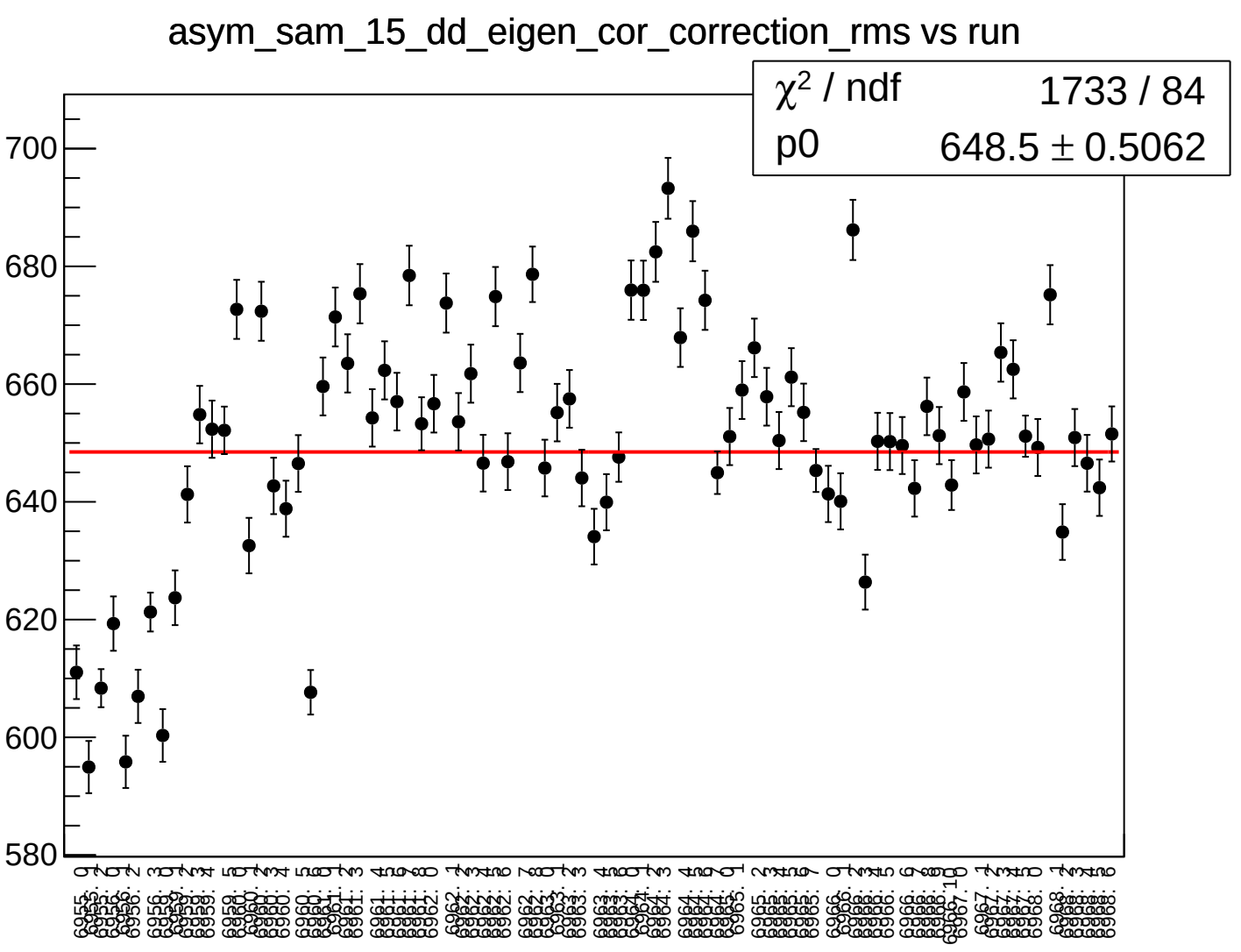

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 92.91 / 84
p0 60.7 ± 124.2
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 105.1
Std Dev 0
3
2
1
0
−1
−2

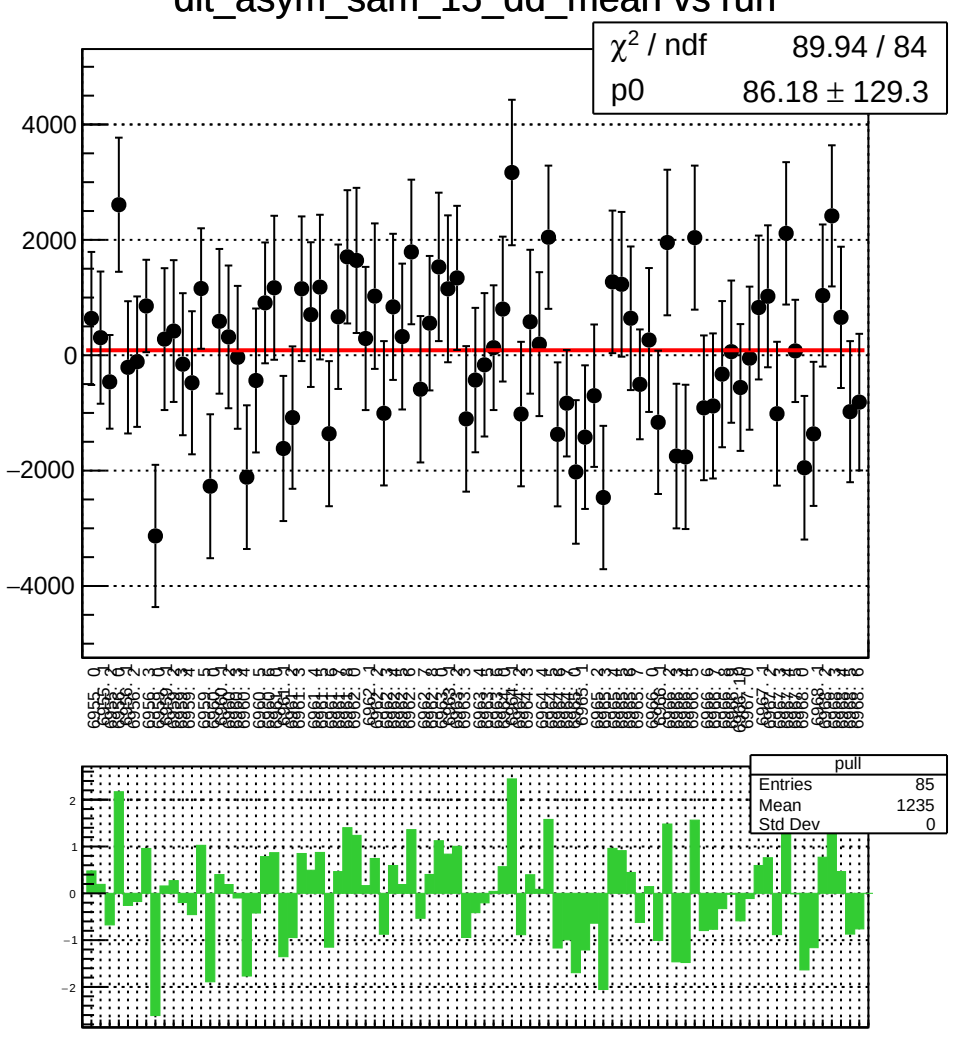

pull1D
Entries 85
Mean 0.002722
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

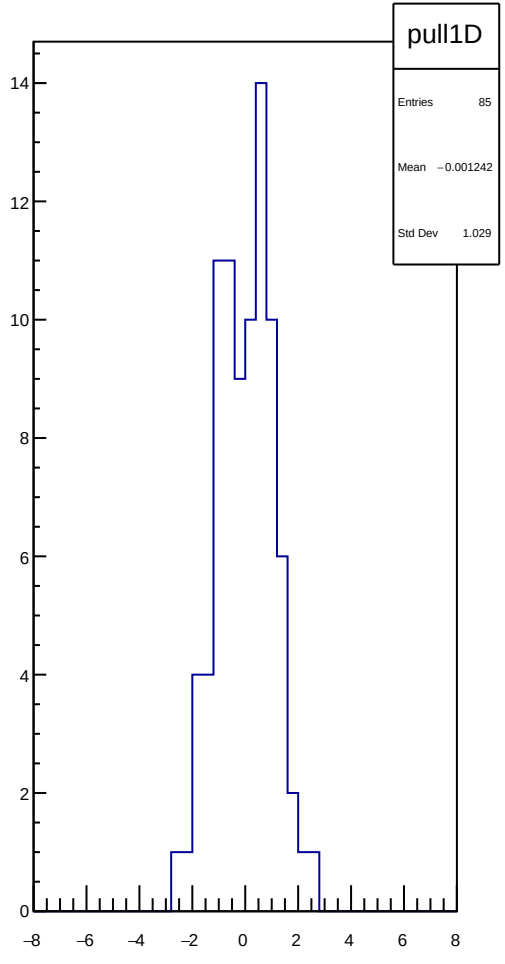

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1388 / 84
p0 112.5 ± 0.0878
118
116
114
112
110
108
106
104
102

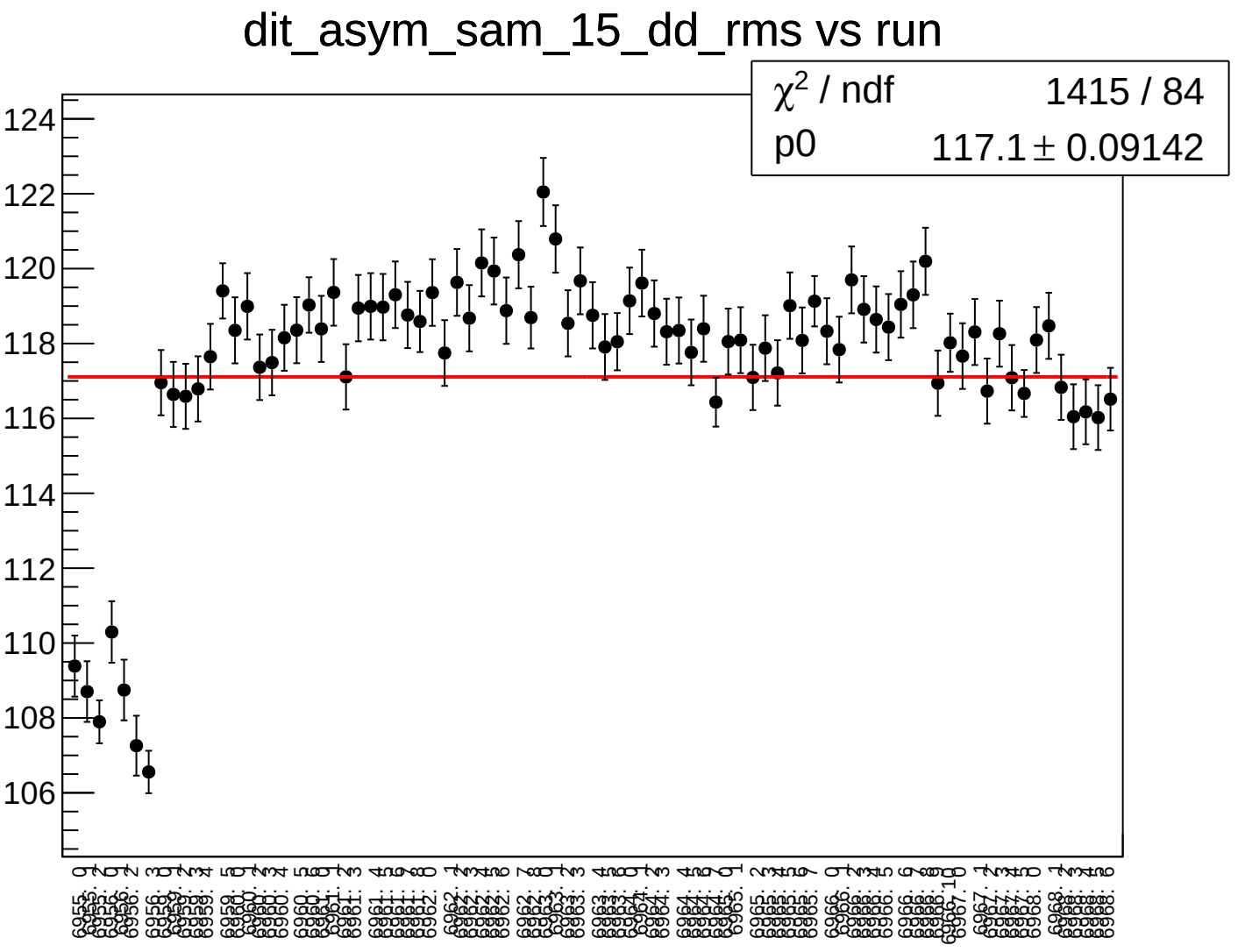

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.16 / 84
p0 471.8 ± 715.9
pull
Entries 85
Mean 657.4
Std Dev 0

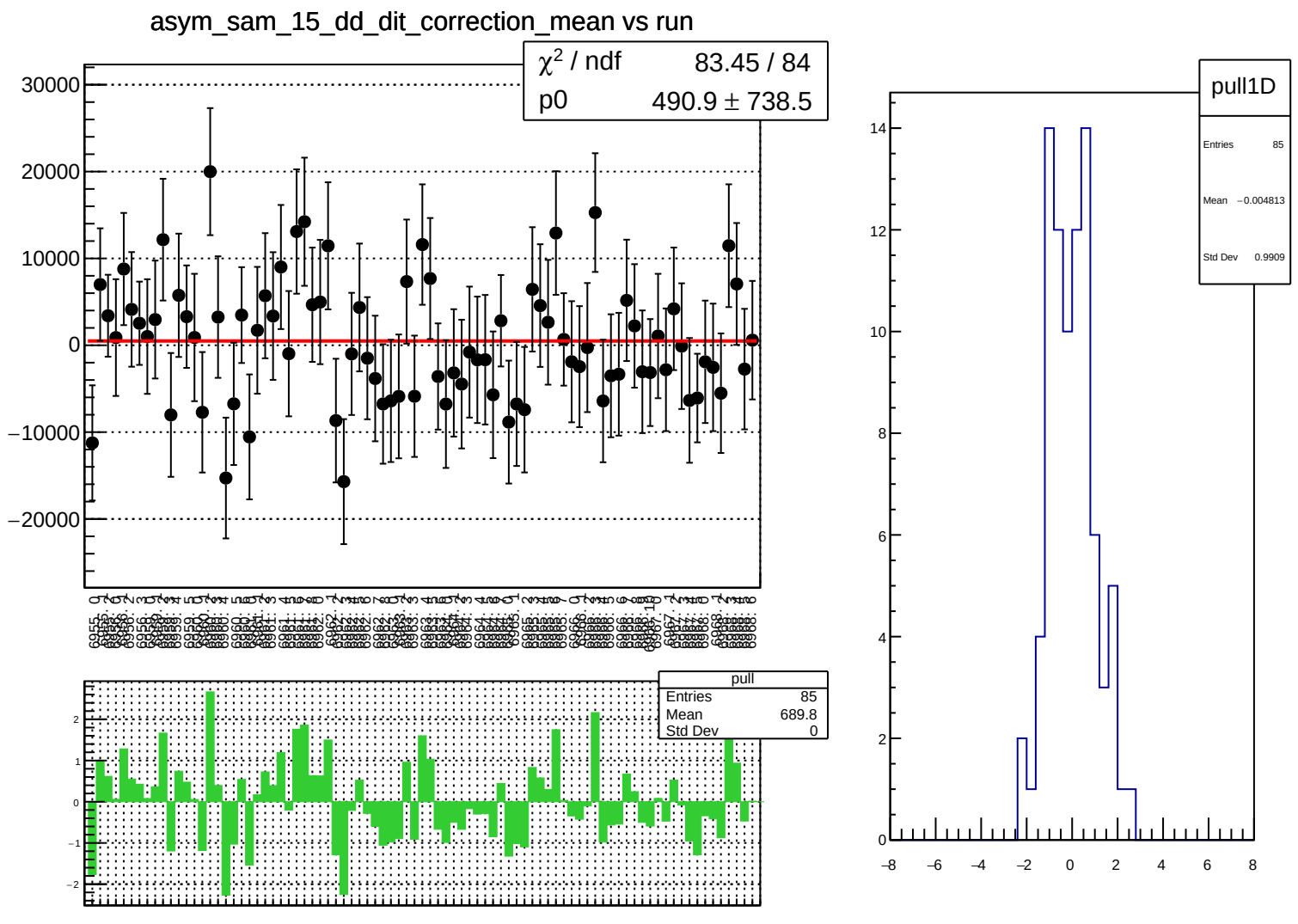

pull1D
Entries 85
Mean −0.004737
Std Dev 0.9891

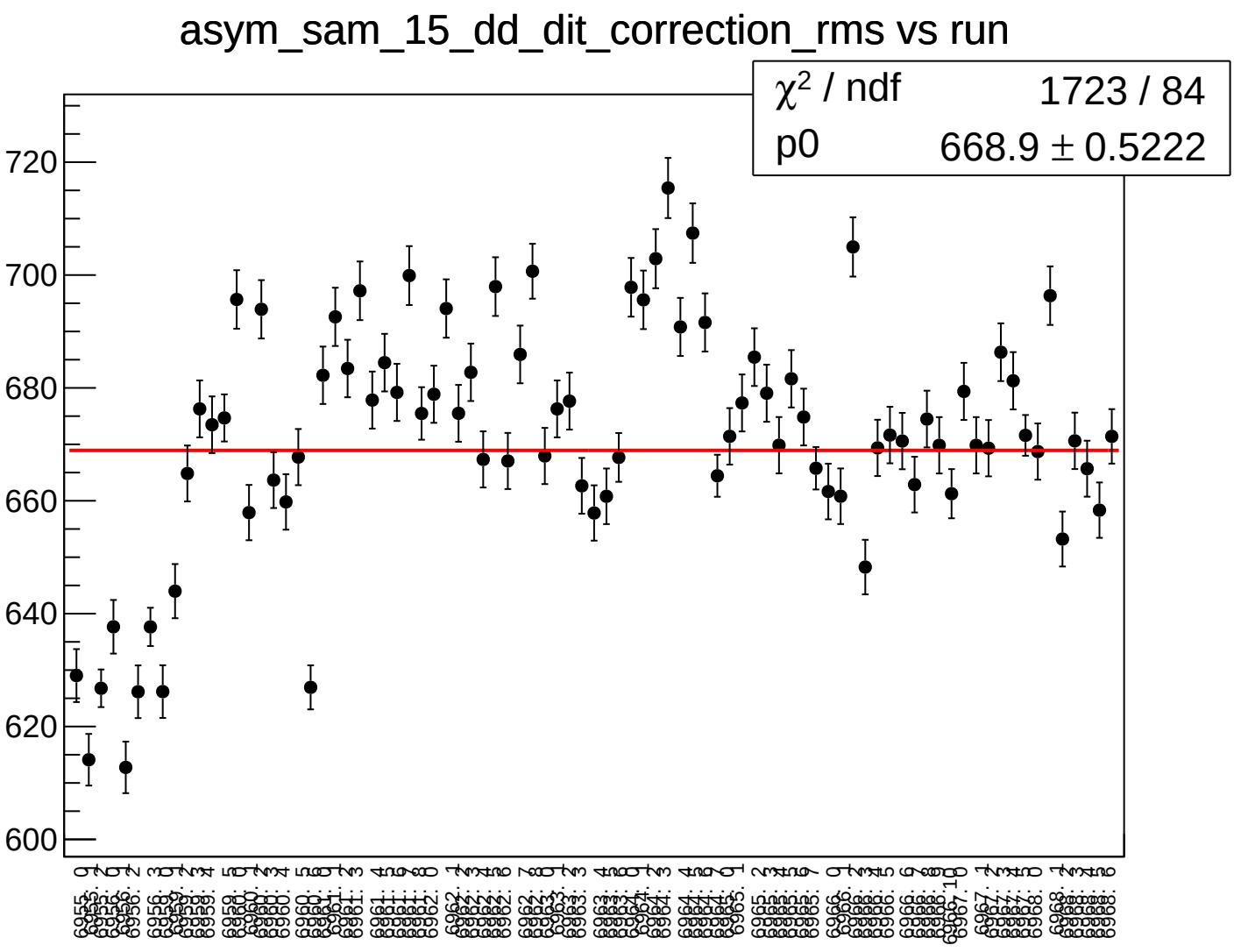

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1733 / 84
p0 648.5 ± 0.5062
700
680
660
640
620
600
580

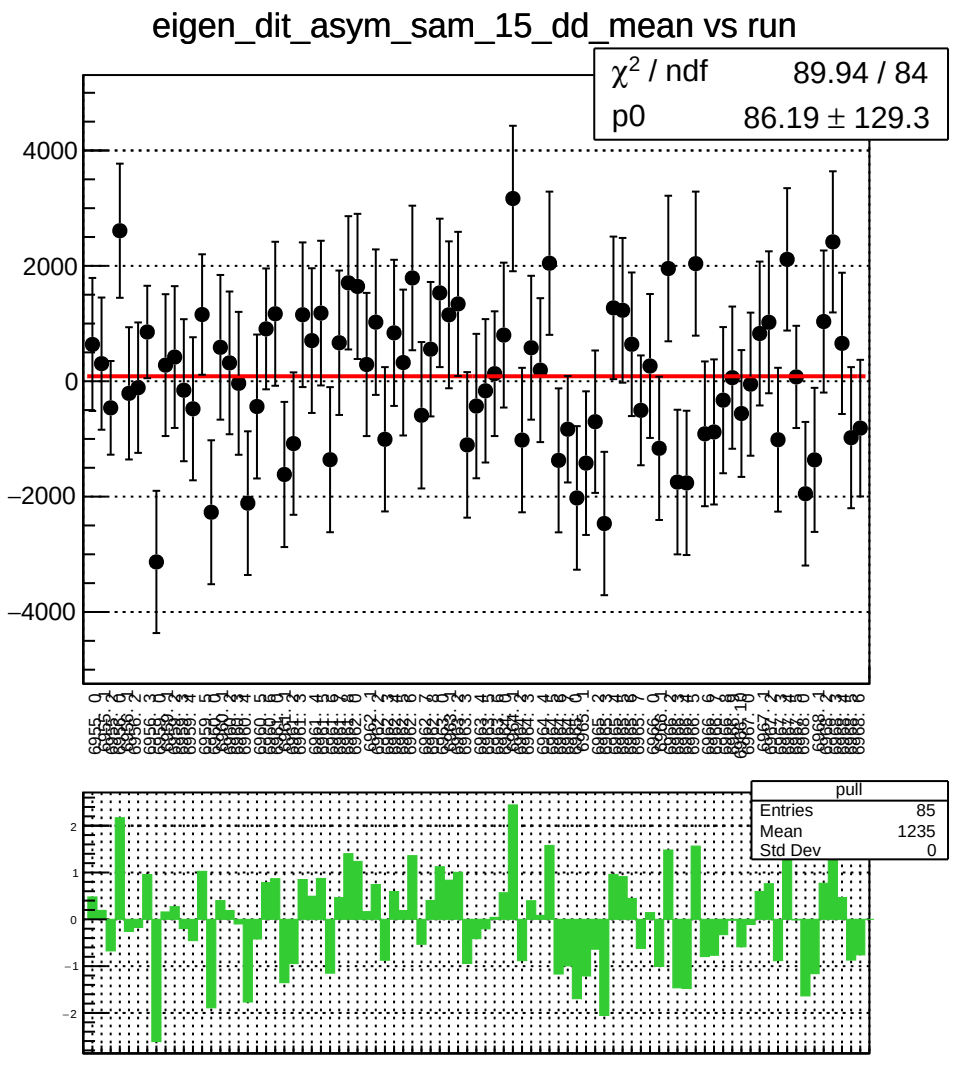

dit_asym_sam_15_dd_mean vs run
χ² / ndf 89.94 / 84
p0 86.18 ± 129.3
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 1235
Std Dev 0
2
1
0
−1
−2

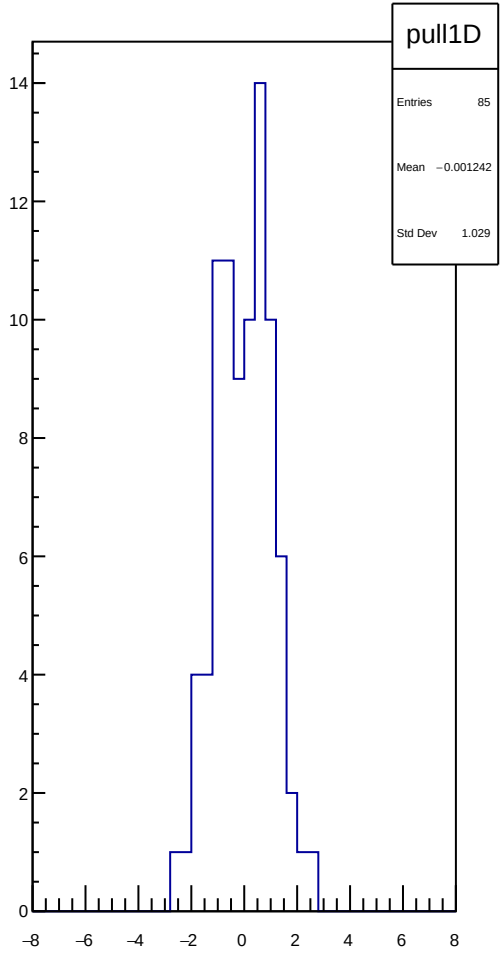

pull1D
Entries 85
Mean −0.001242
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

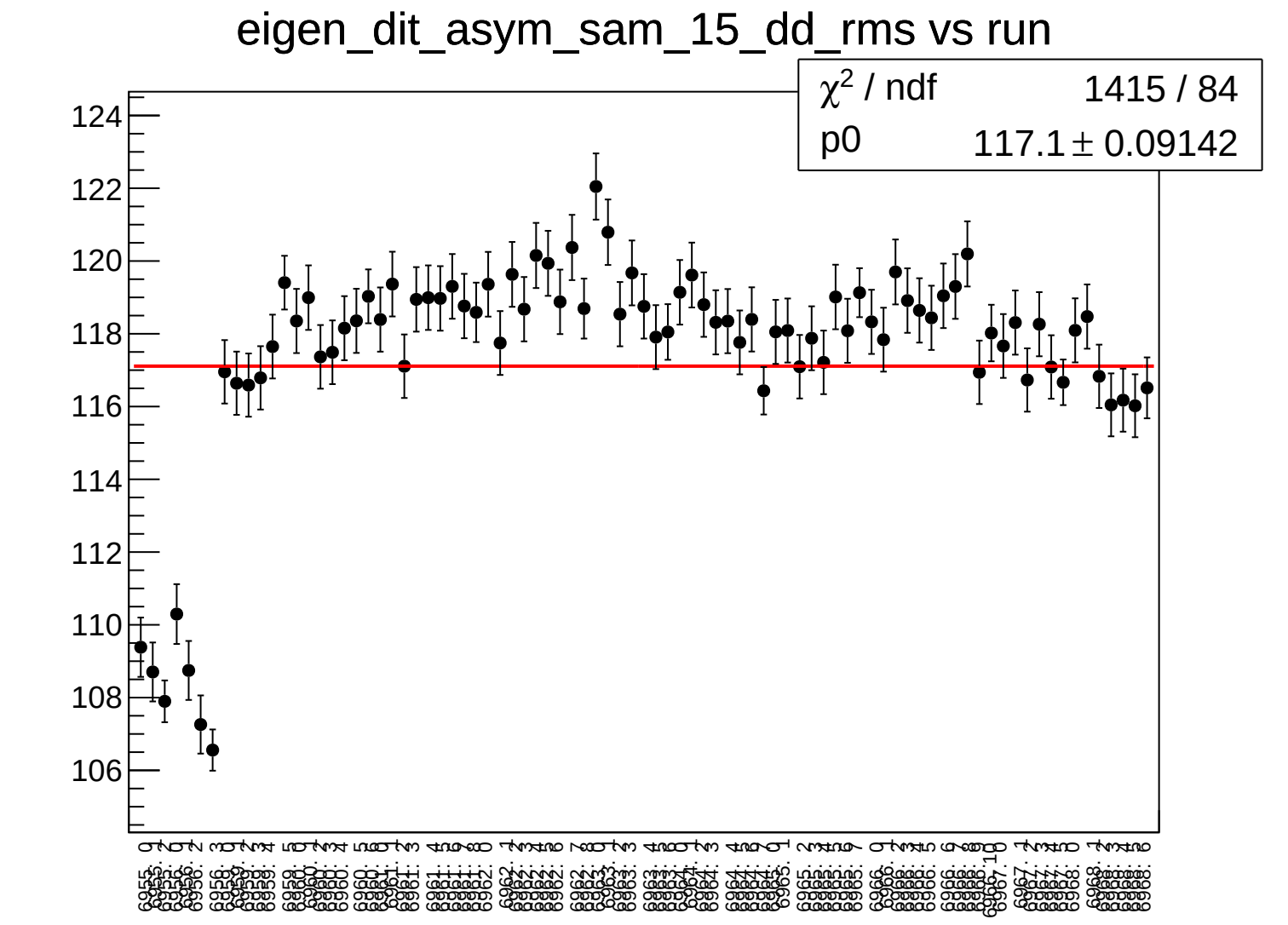

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1415 / 84
p0 117.1 ± 0.09142
124
122
120
118
116
114
112
110
108
106

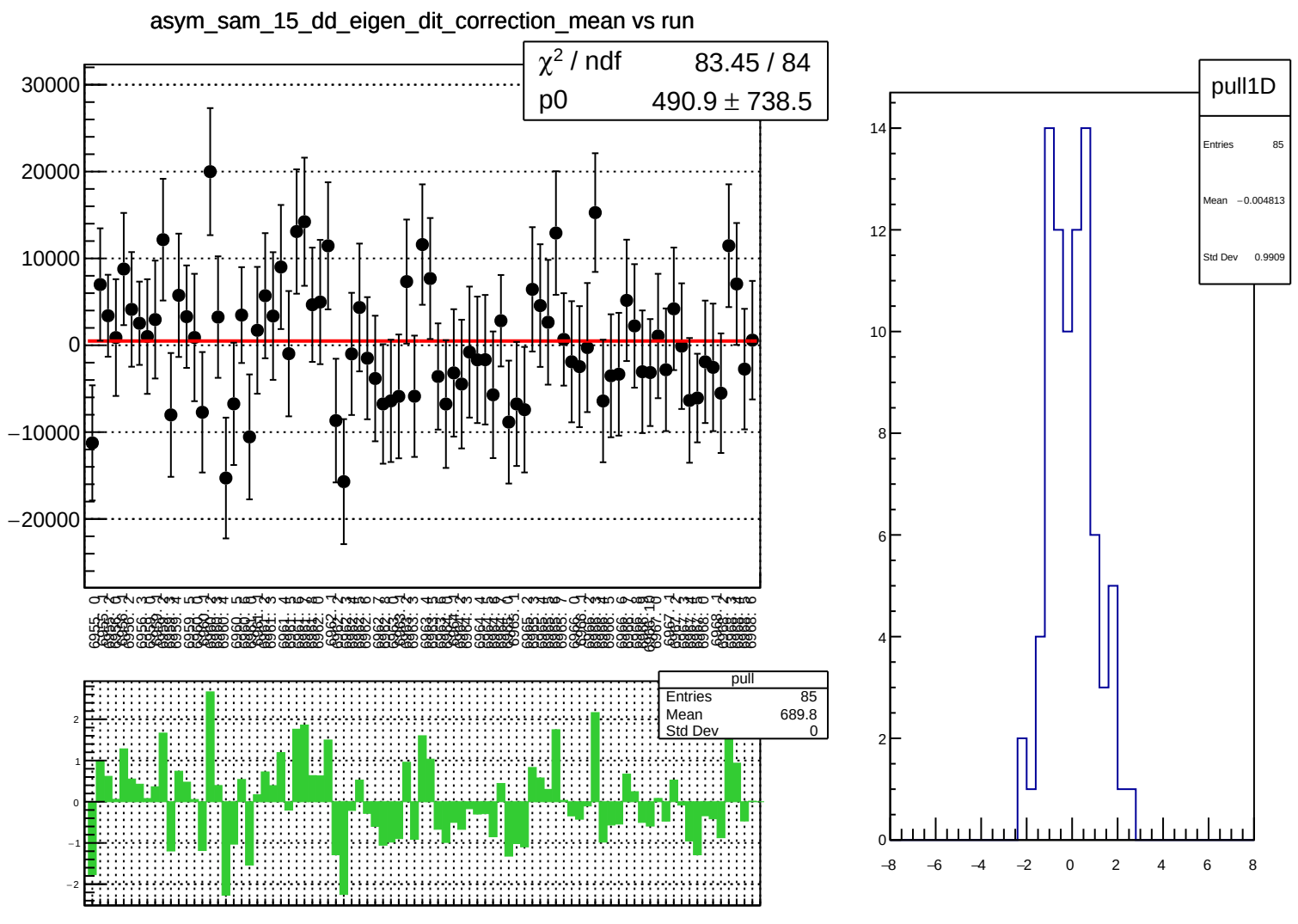

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 83.45 / 84
p0 490.9 ± 738.5
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 689.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.004813
Std Dev 0.9909
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

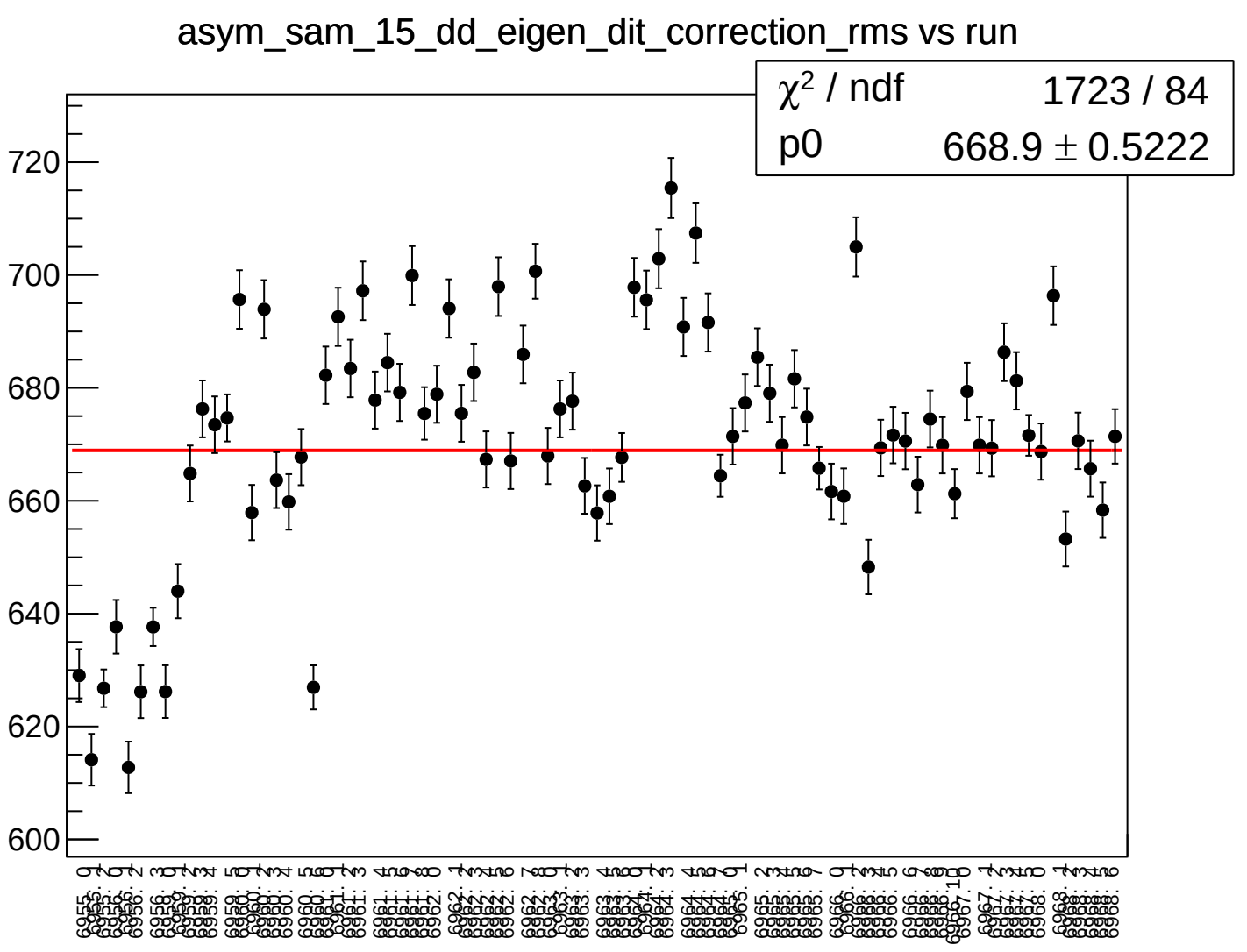

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1723 / 84
p0 668.9 ± 0.5222
720
700
680
660
640
620
600

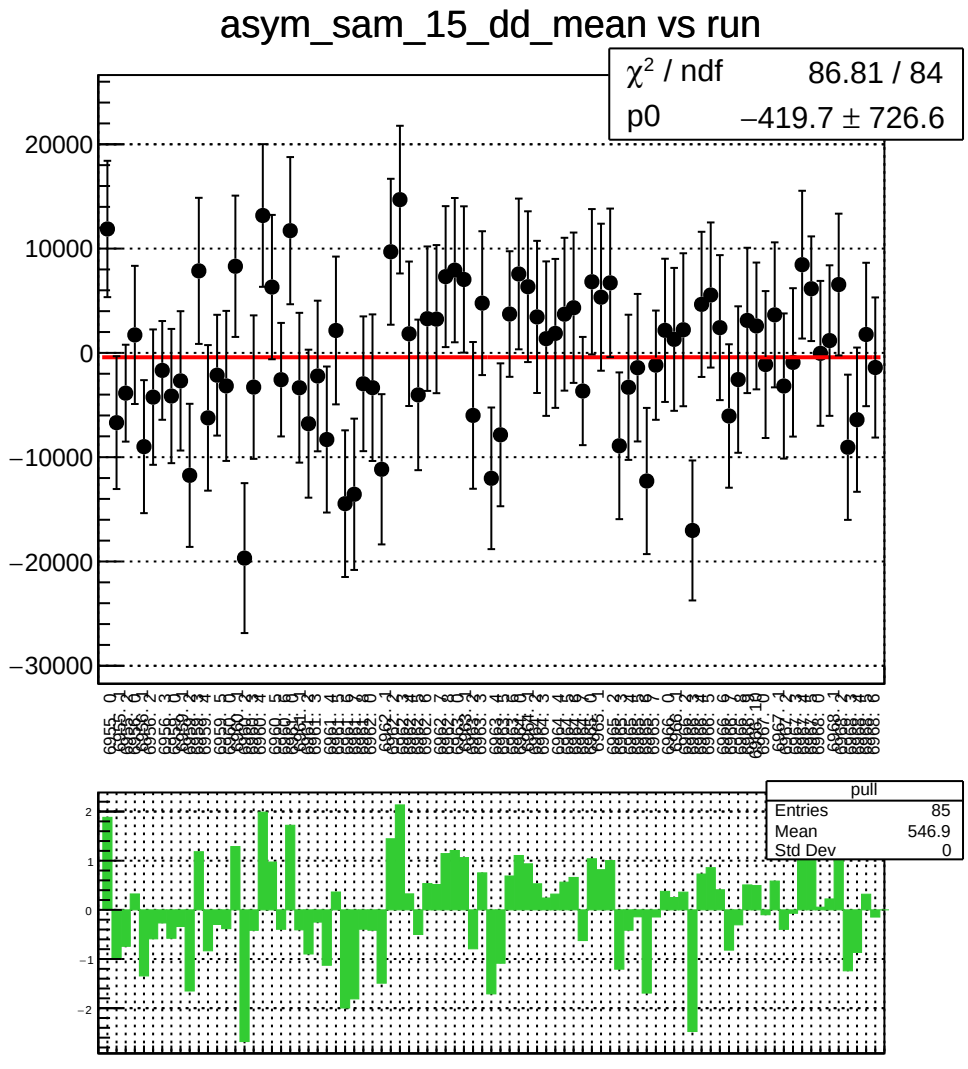

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 89.94 / 84
p0 86.19 ± 129.3
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 1235
Std Dev 0
2
1
0
−1
−2

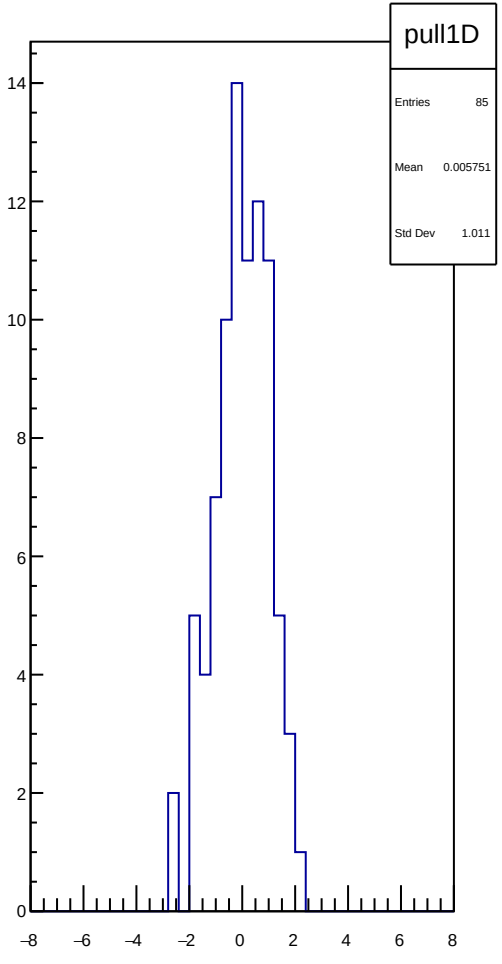

pull1D
Entries 85
Mean −0.001242
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

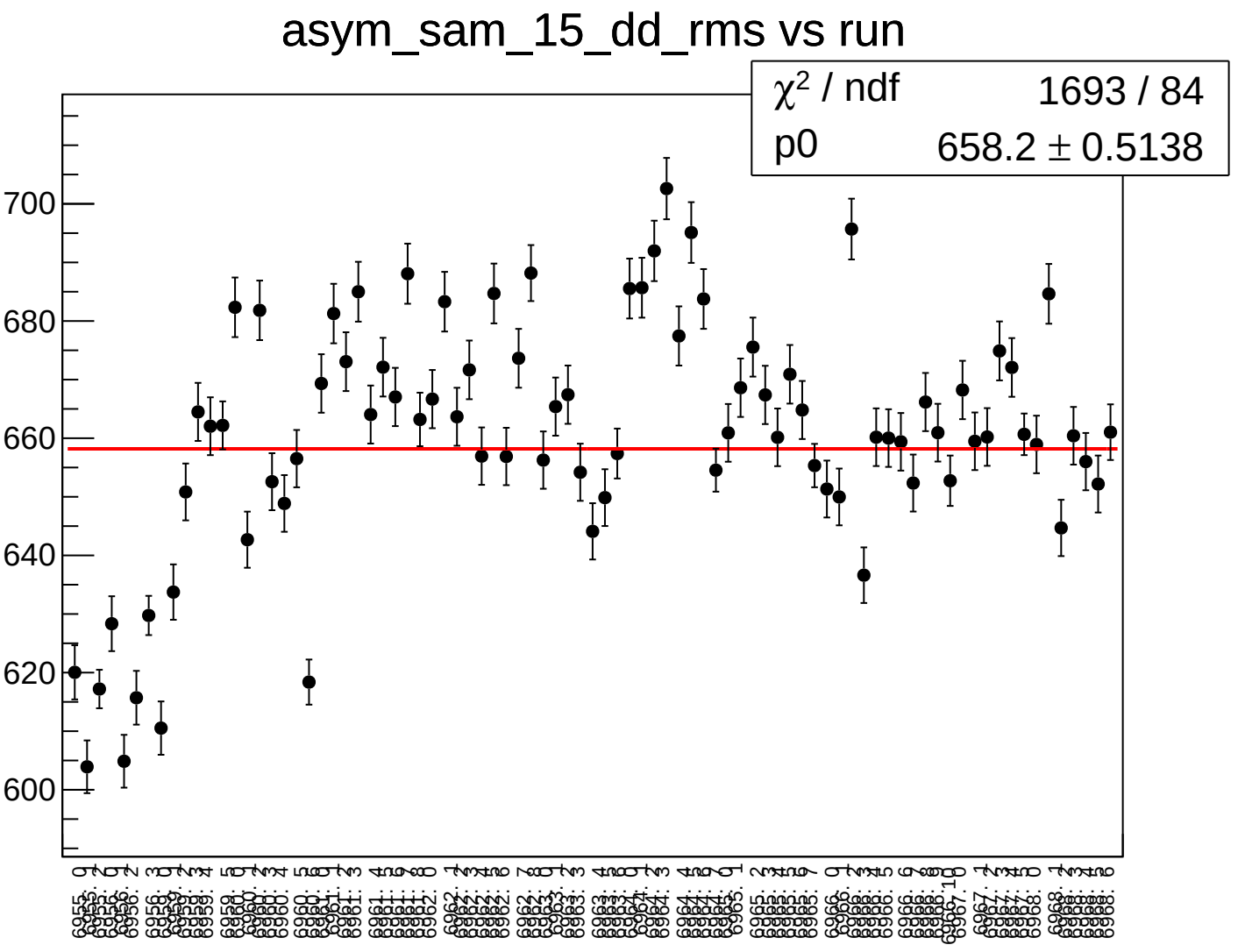

eigen_dit_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 1415 / 84
p0 117.1 ± 0.09142
124
122
120
118
116
114
112
110
108
106

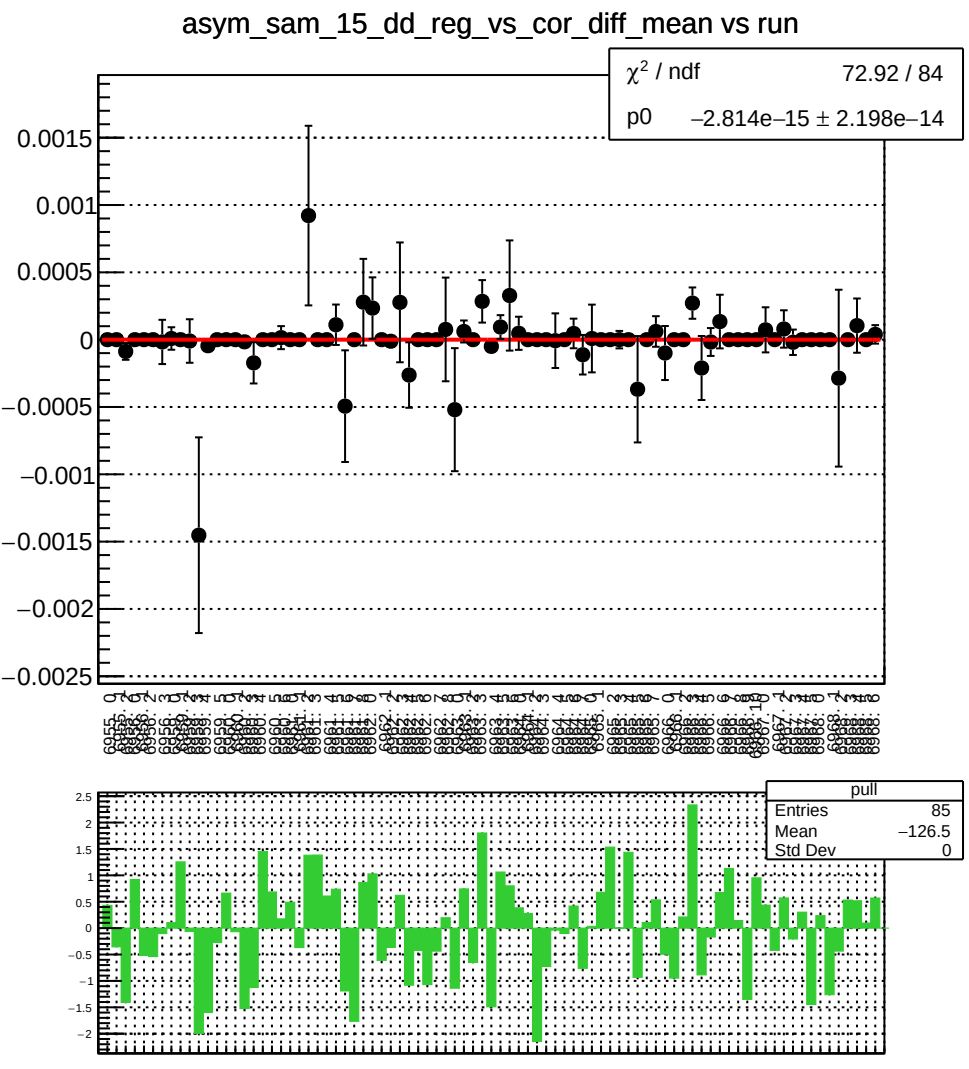

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.45 / 84
p0 490.9 ± 738.5
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 689.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.004813
Std Dev 0.9909
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

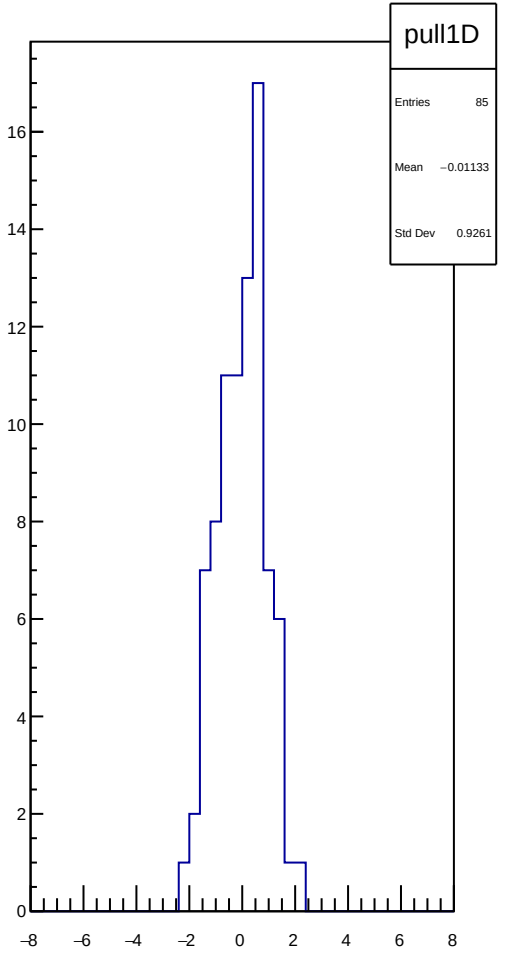

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1723 / 84
p0 668.9 ± 0.5222
720
700
680
660
640
620
600

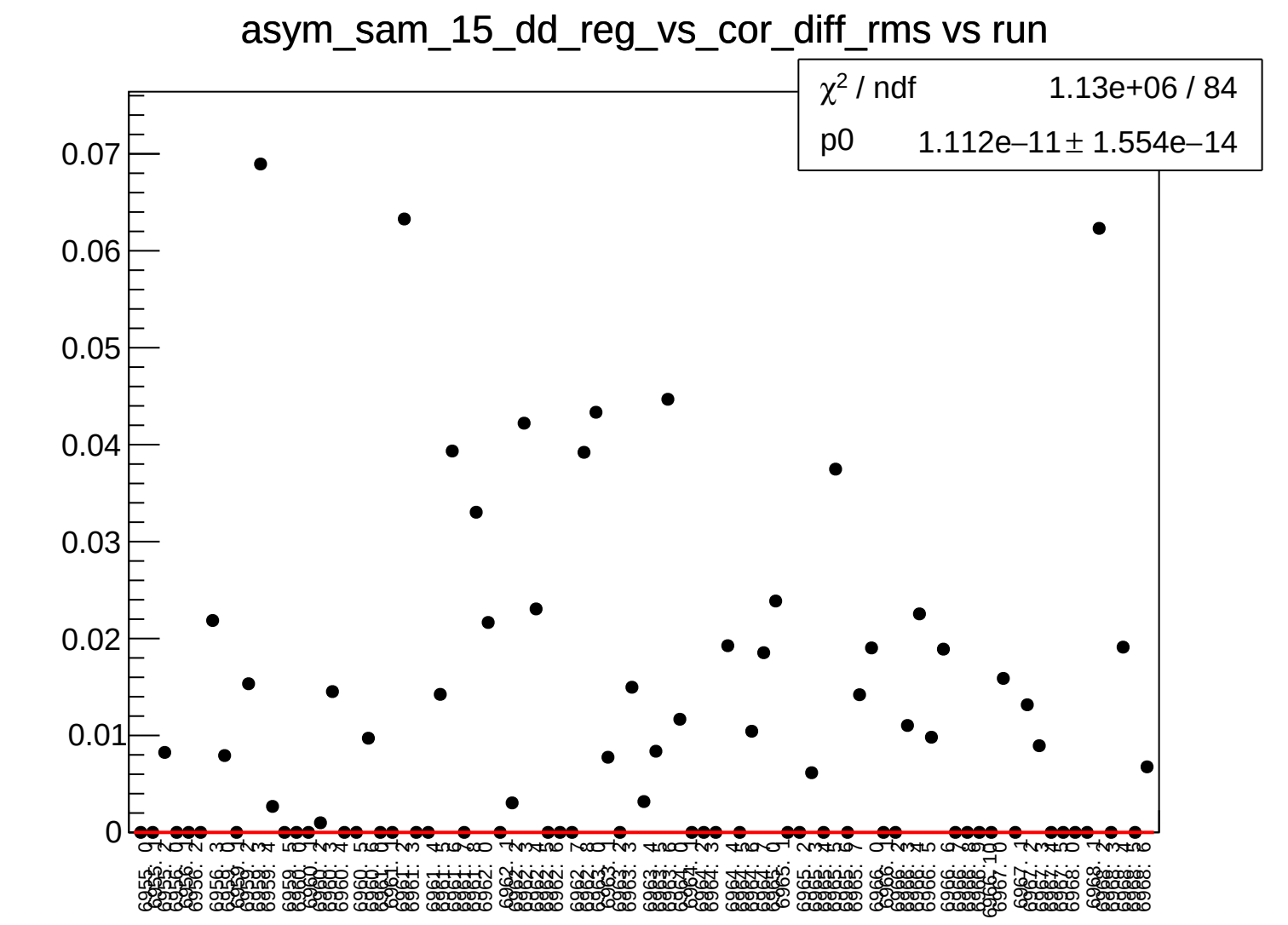

asym_sam_15_dd_mean vs run
χ² / ndf 86.81 / 84
p0 −419.7 ± 726.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 546.9
Std Dev 0
2
1
0
−1
−2

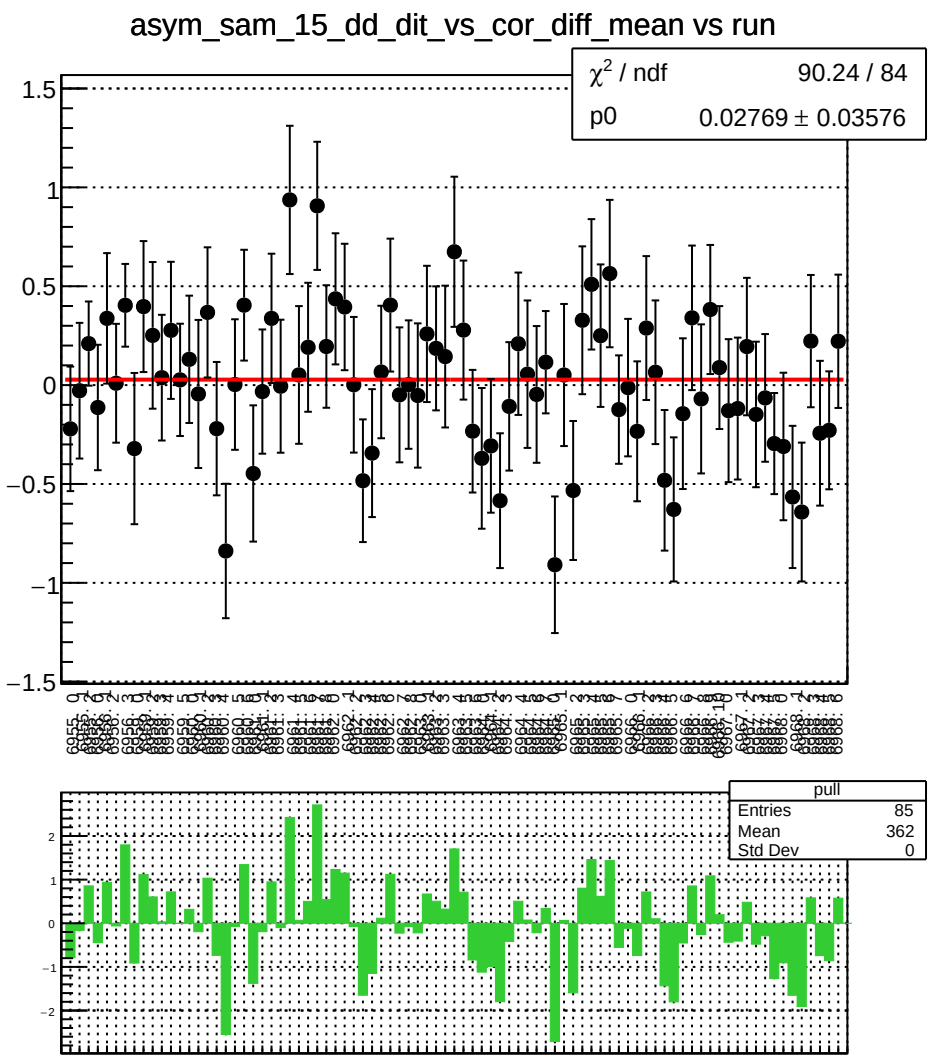

pull1D
Entries 85
Mean 0.005751
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

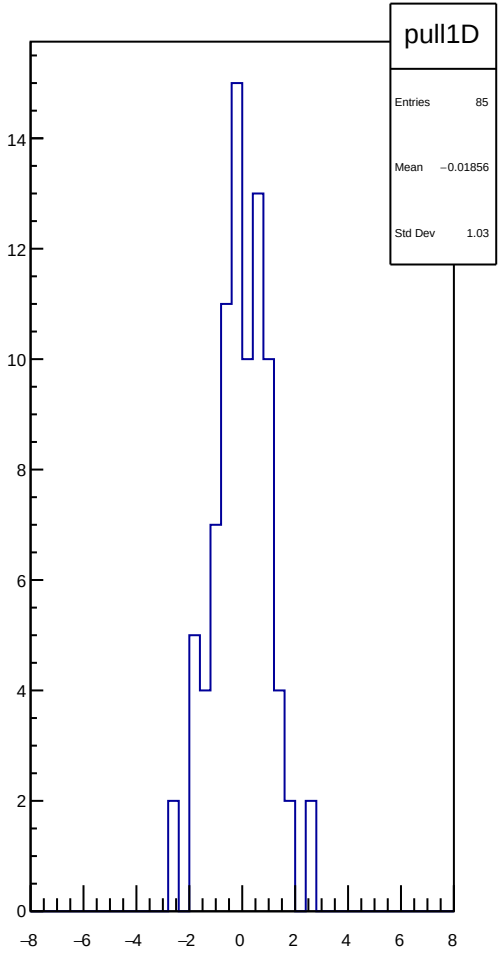

asym_sam_15_dd_rms vs run
χ² / ndf 1693 / 84
p0 658.2 ± 0.5138
700
680
660
640
620
600

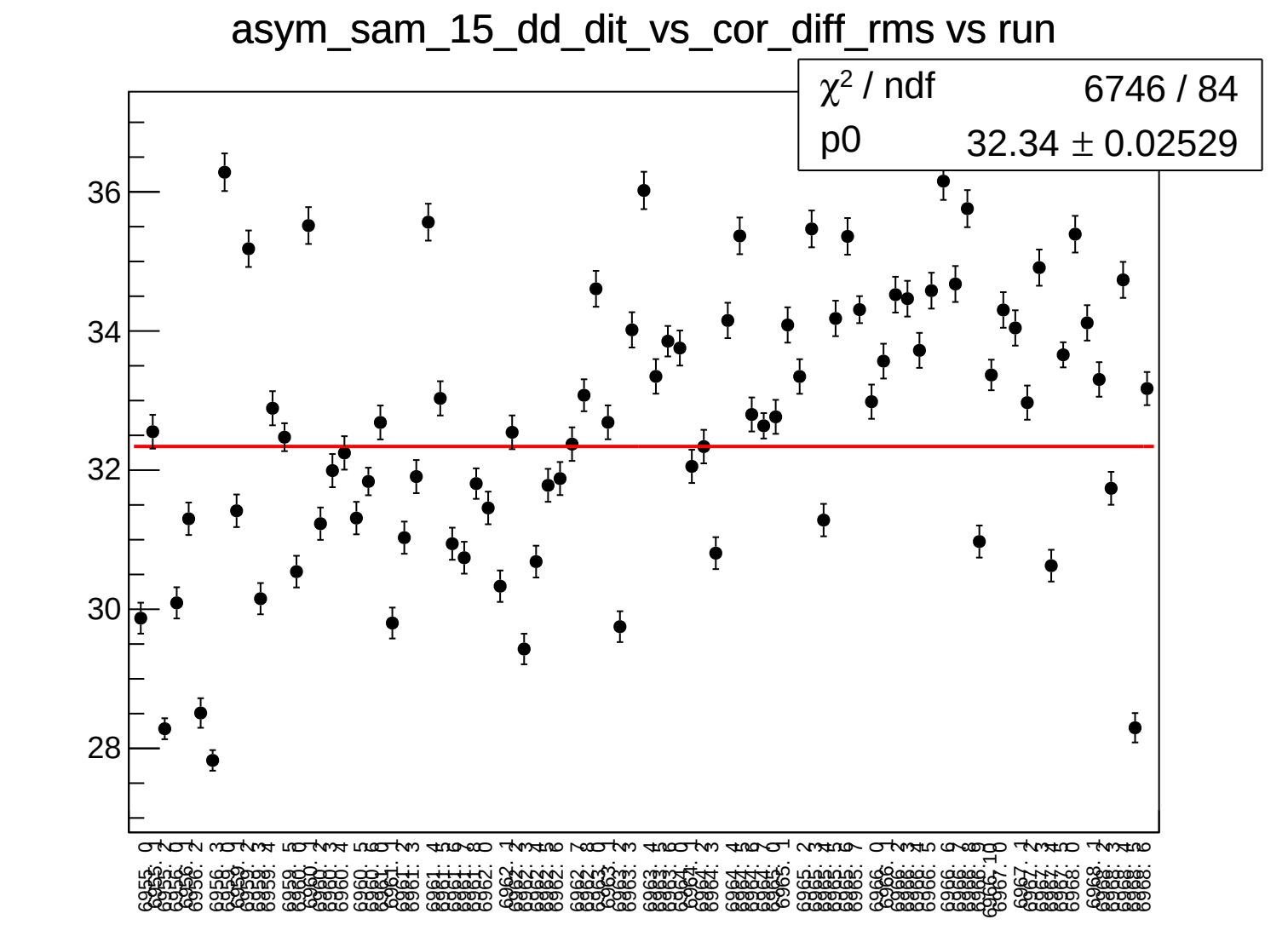

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.92 / 84
p0 −2.814e−15 ± 2.198e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 85
Mean −126.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

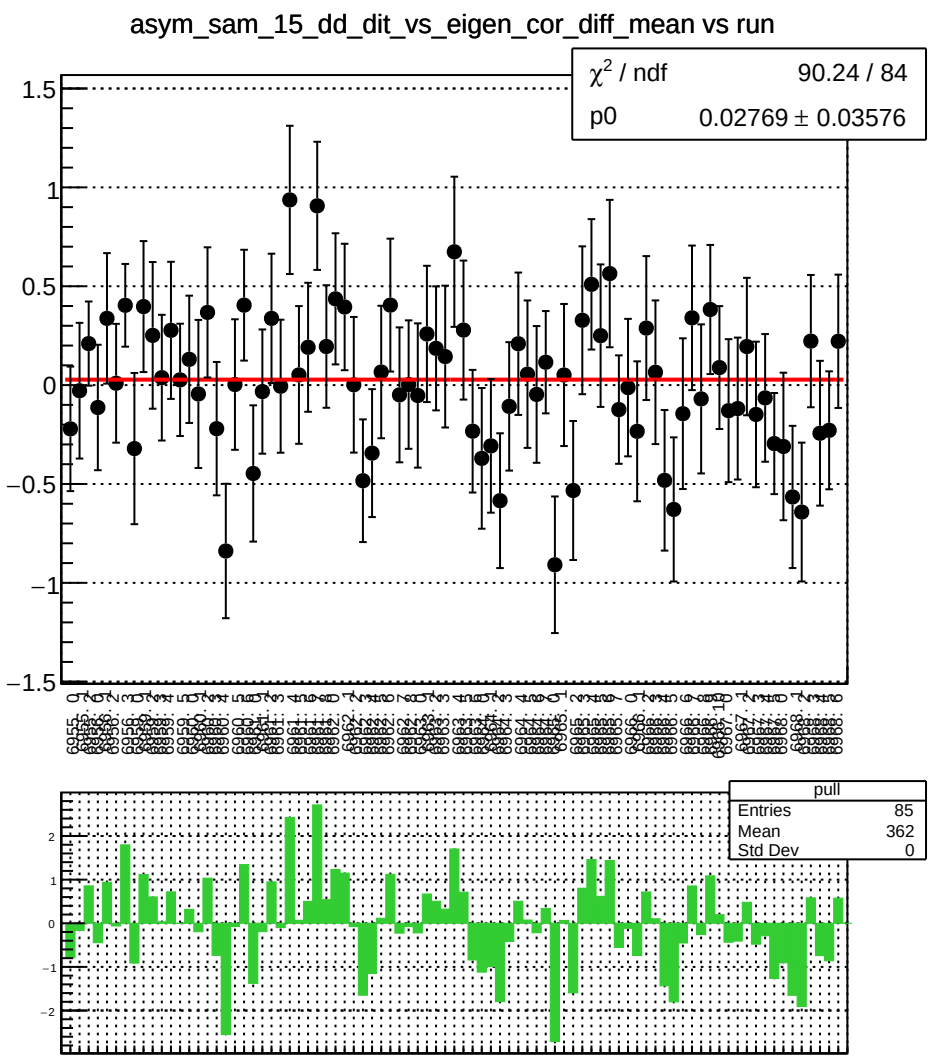

pull1D
Entries 85
Mean −0.01133
Std Dev 0.9261
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

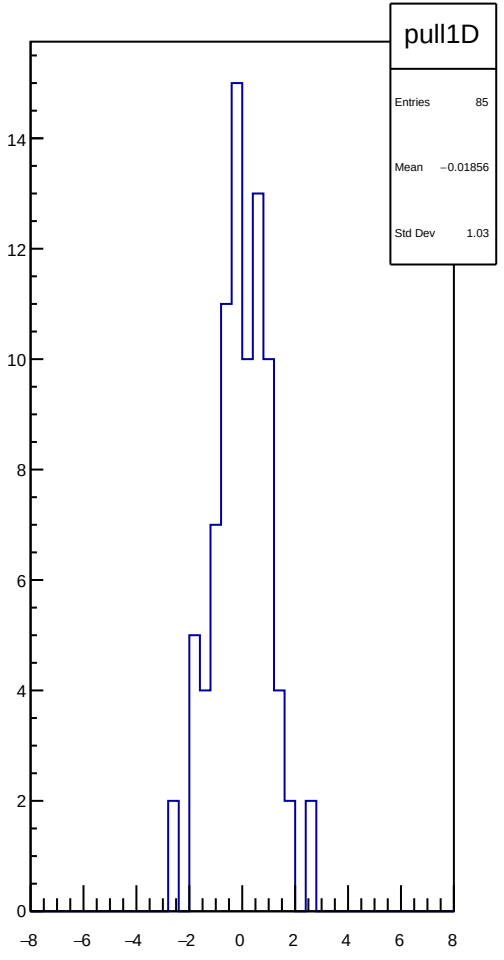

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.13e+06 / 84
p0 1.112e−11 ± 1.554e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

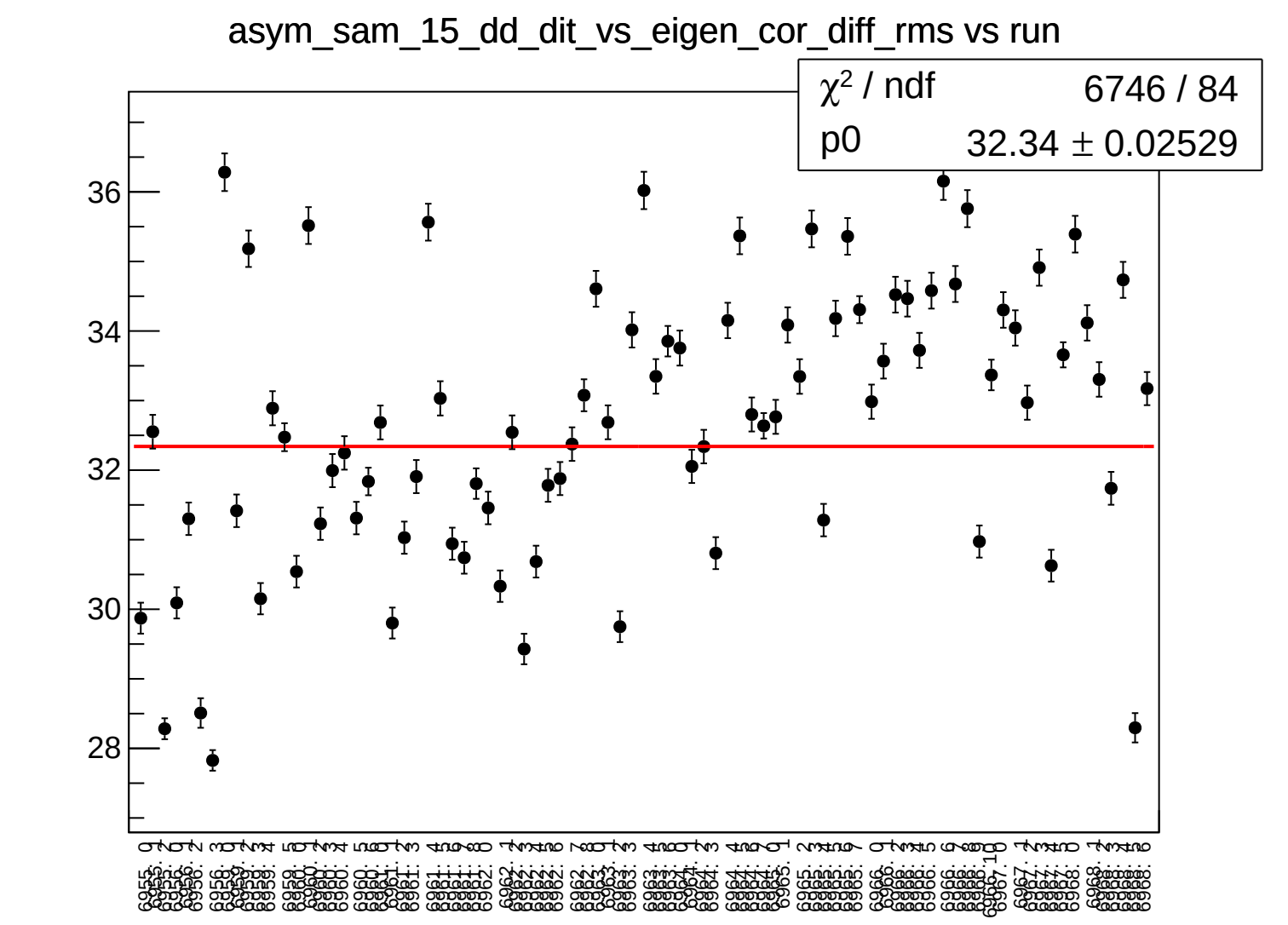

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.24 / 84
p0 0.02769 ± 0.03576
pull
Entries 85
Mean 362
Std Dev 0

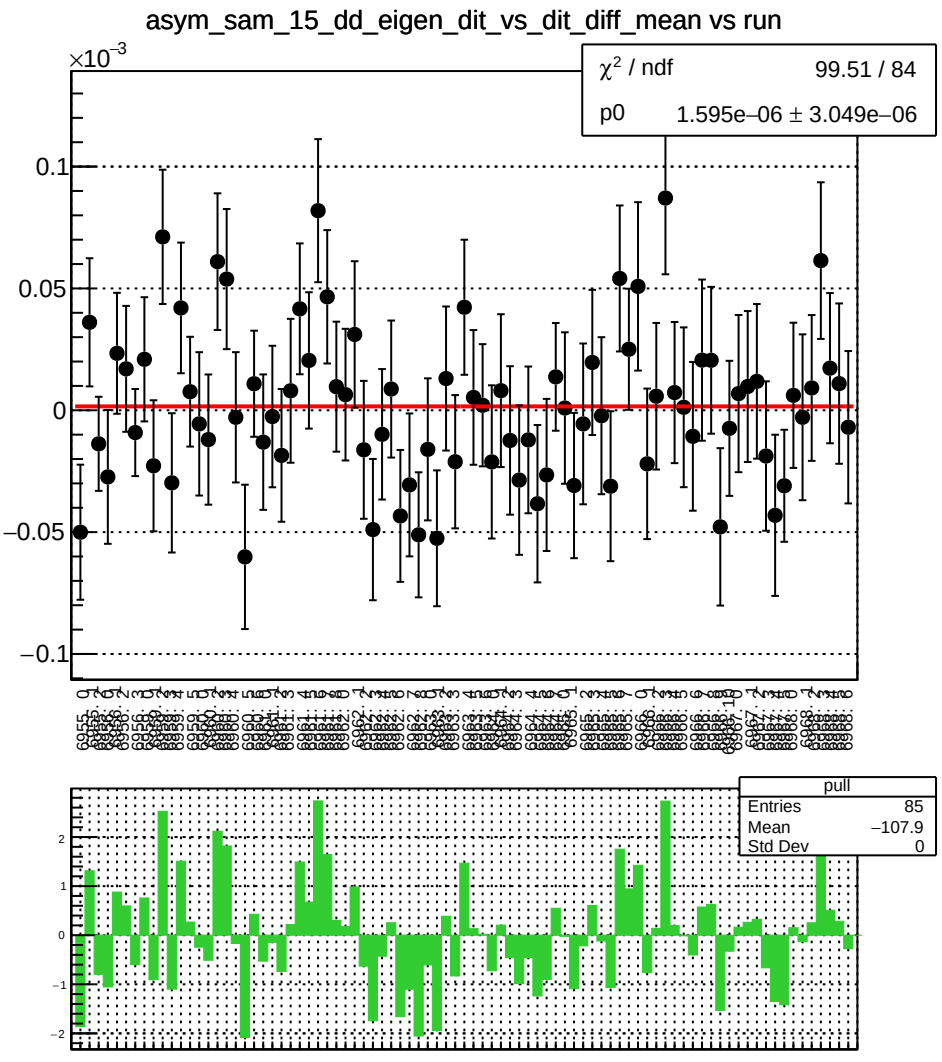

pull1D
Entries 85
Mean −0.01856
Std Dev 1.03

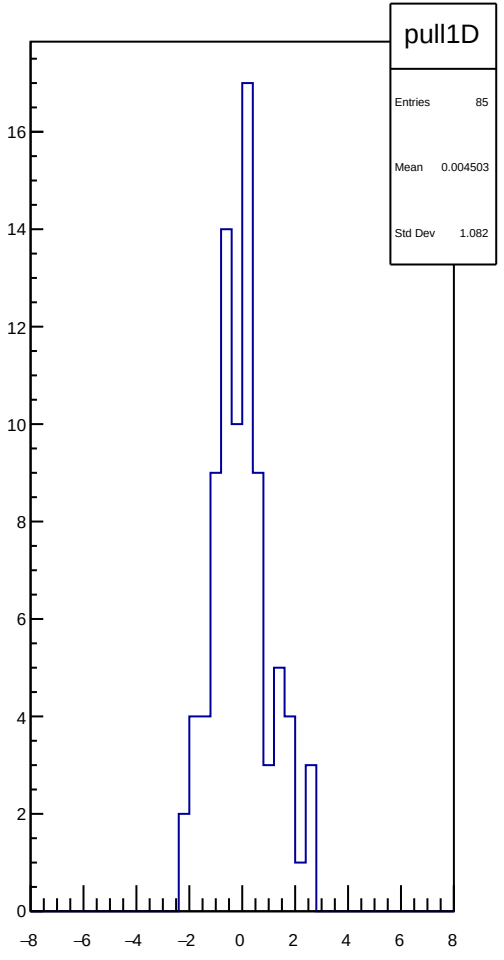

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6746 / 84
p0 32.34 ± 0.02529
36
34
32
30
28

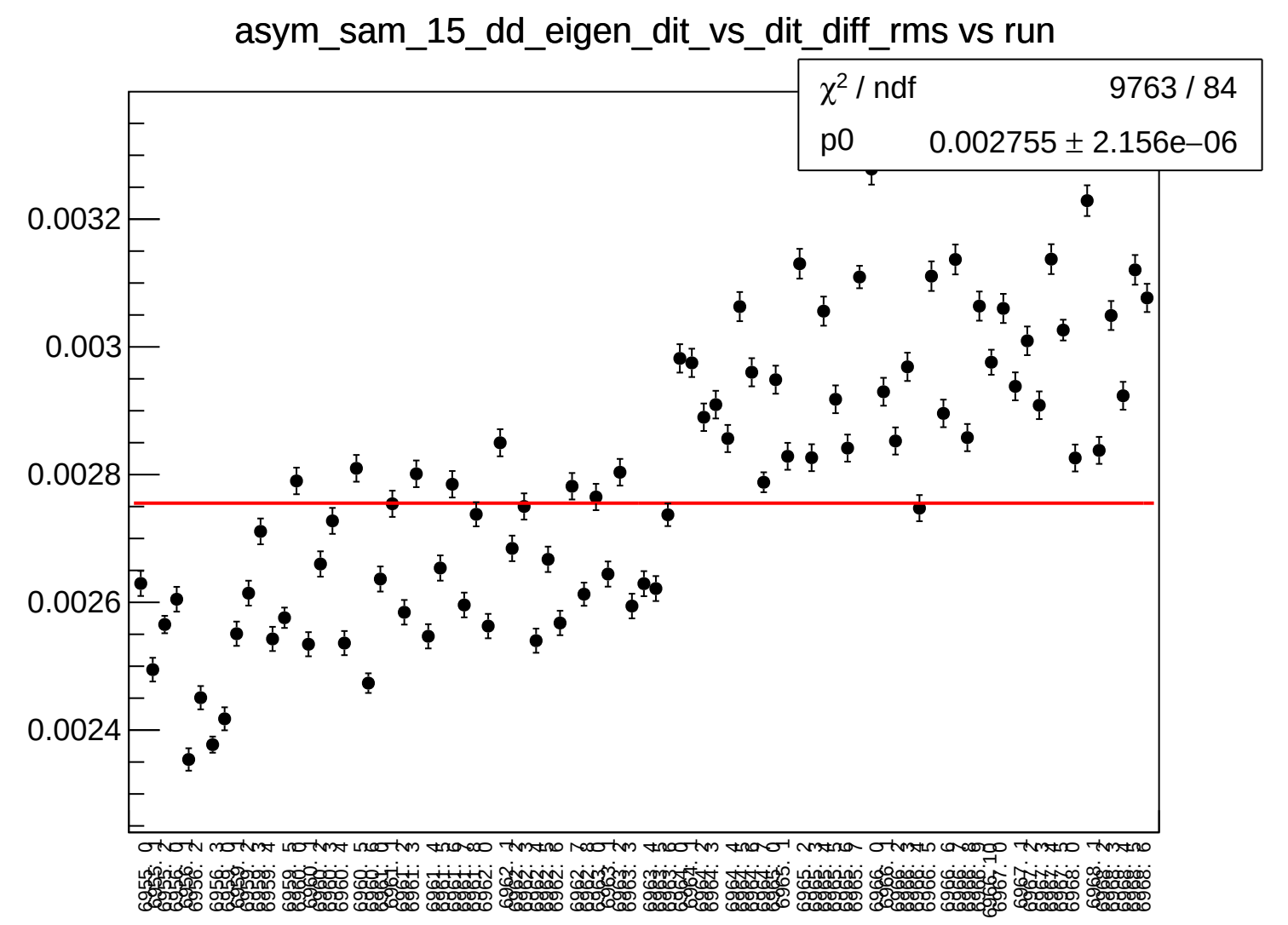

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.24 / 84
p0 0.02769 ± 0.03576
pull
Entries 85
Mean 362
Std Dev 0

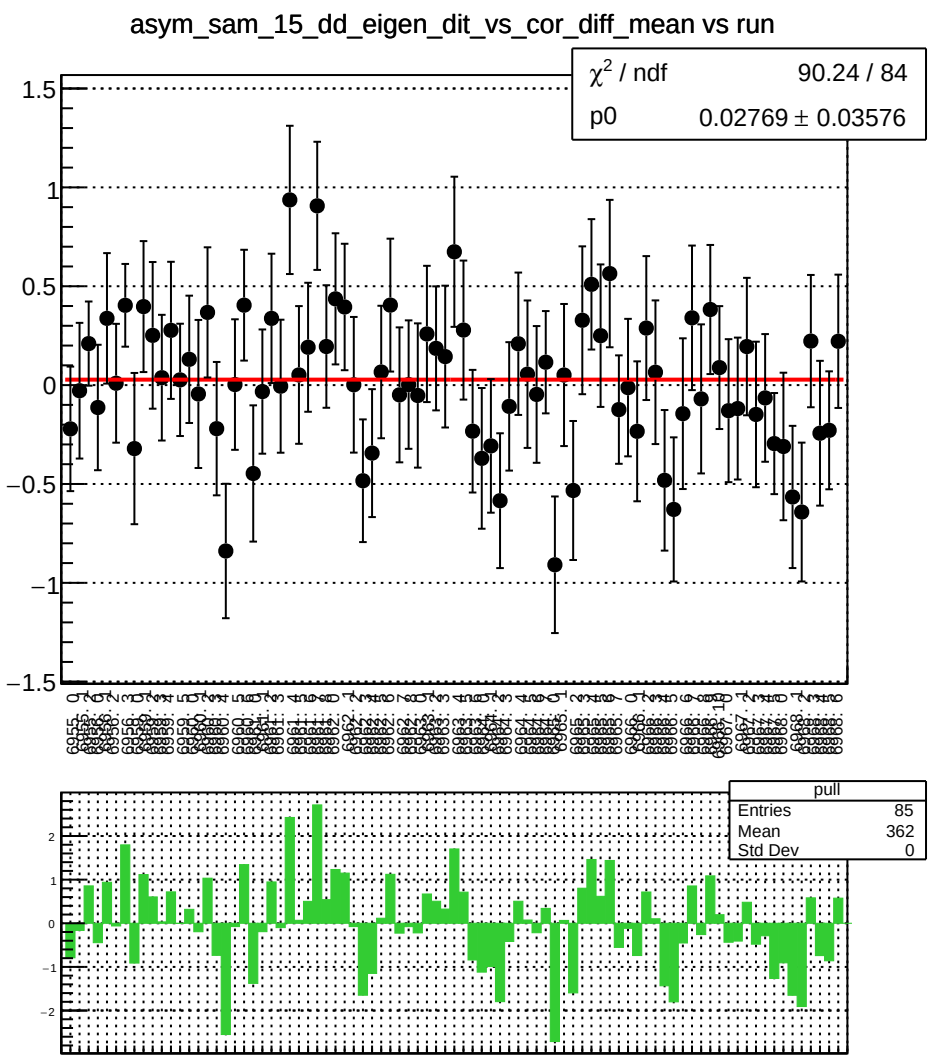

pull1D
Entries 85
Mean −0.01856
Std Dev 1.03

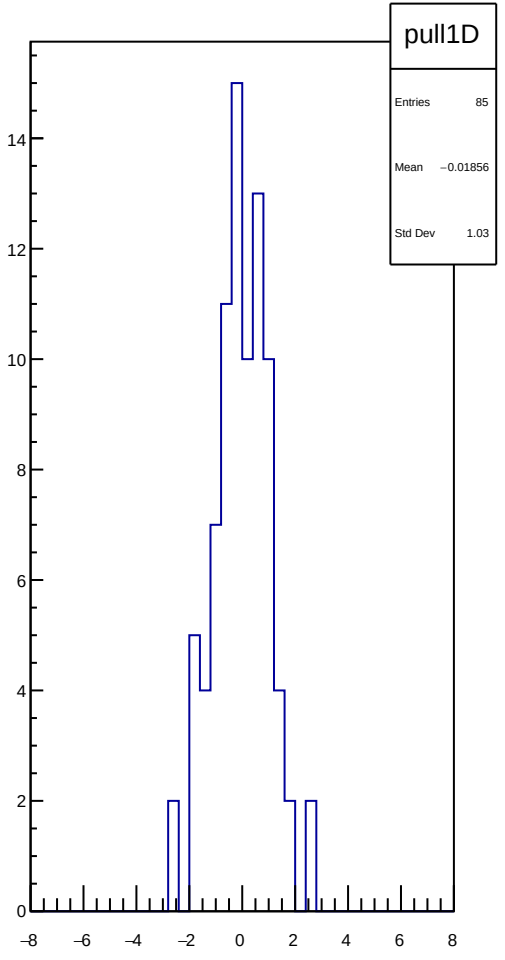

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6746 / 84
p0 32.34 ± 0.02529
36
34
32
30
28

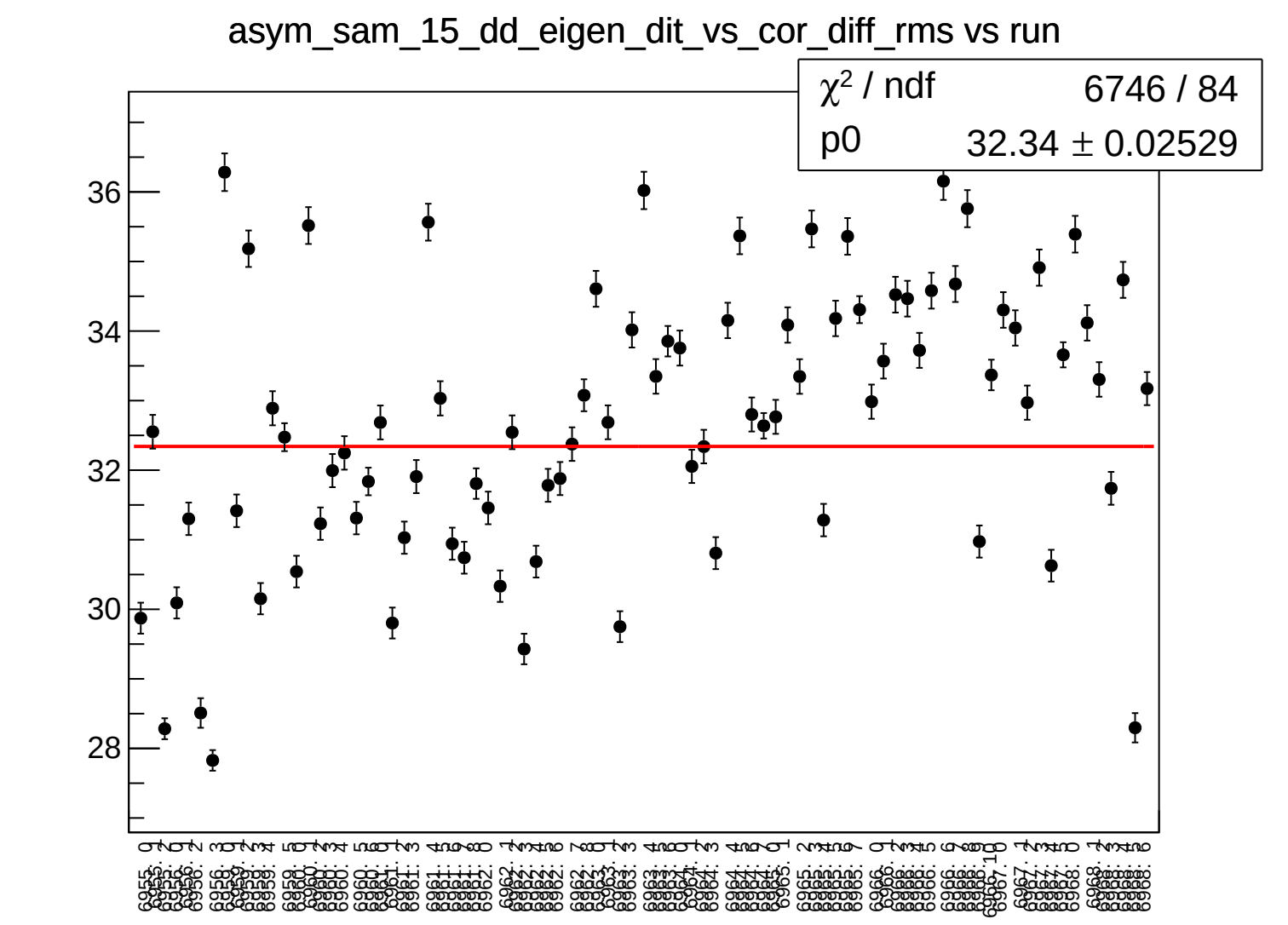

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 99.51 / 84
p0 1.595e−06 ± 3.049e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean −107.9
Std Dev 0
2
1
0
−1
−2

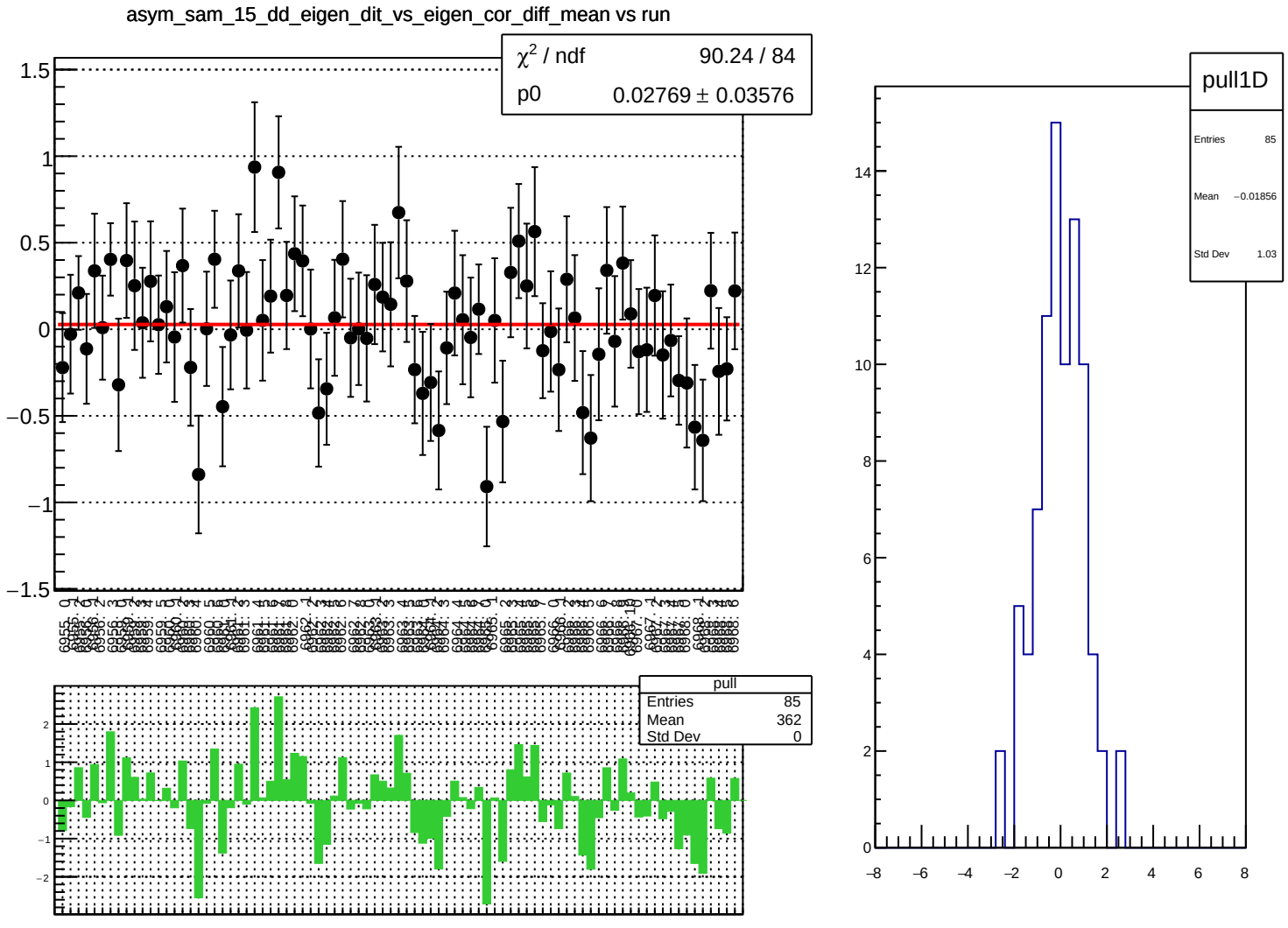

pull1D
Entries 85
Mean 0.004503
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

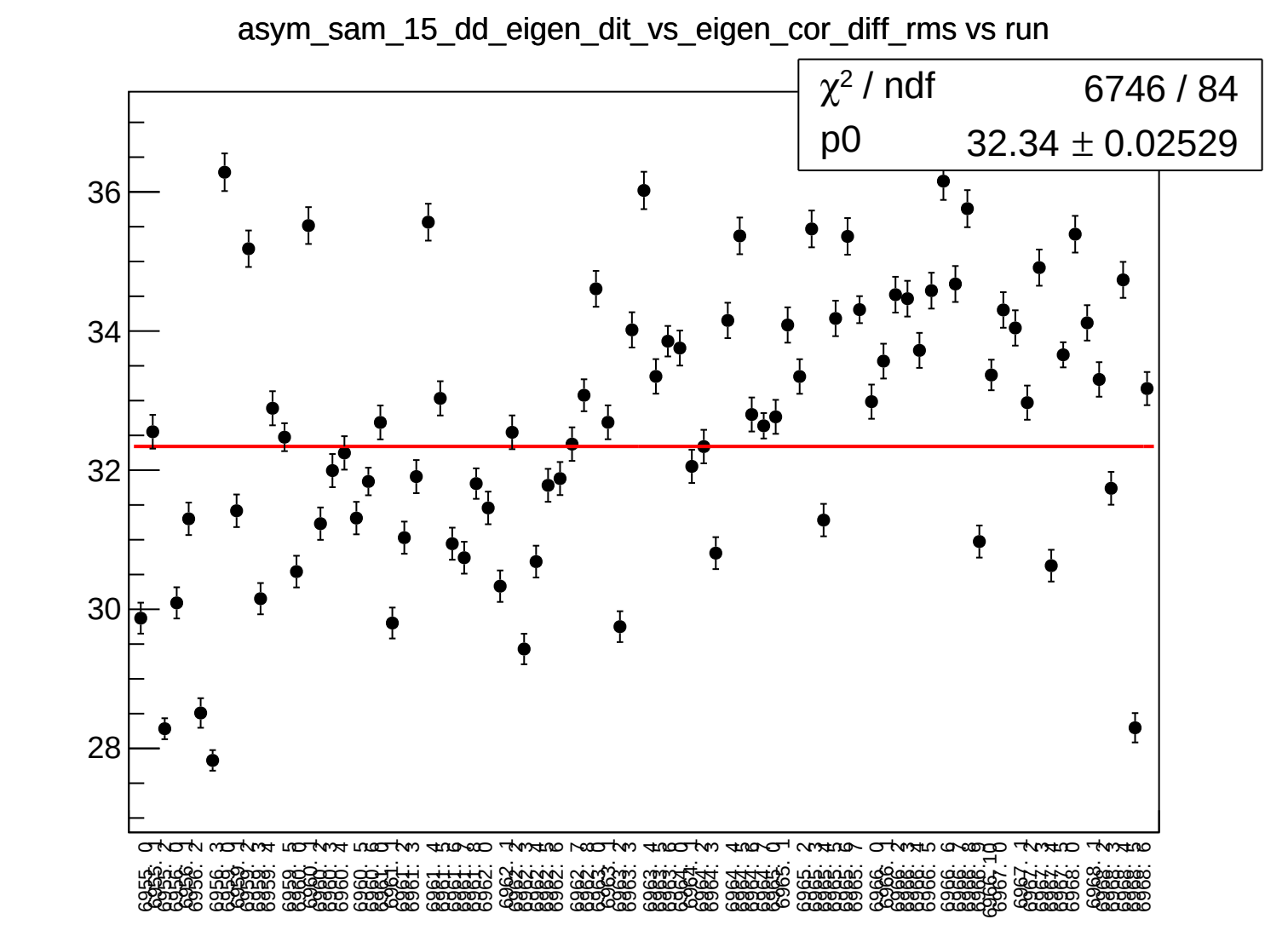

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9763 / 84
p0 0.002755 ± 2.156e−06
0.0032
0.003
0.0028
0.0026
0.0024

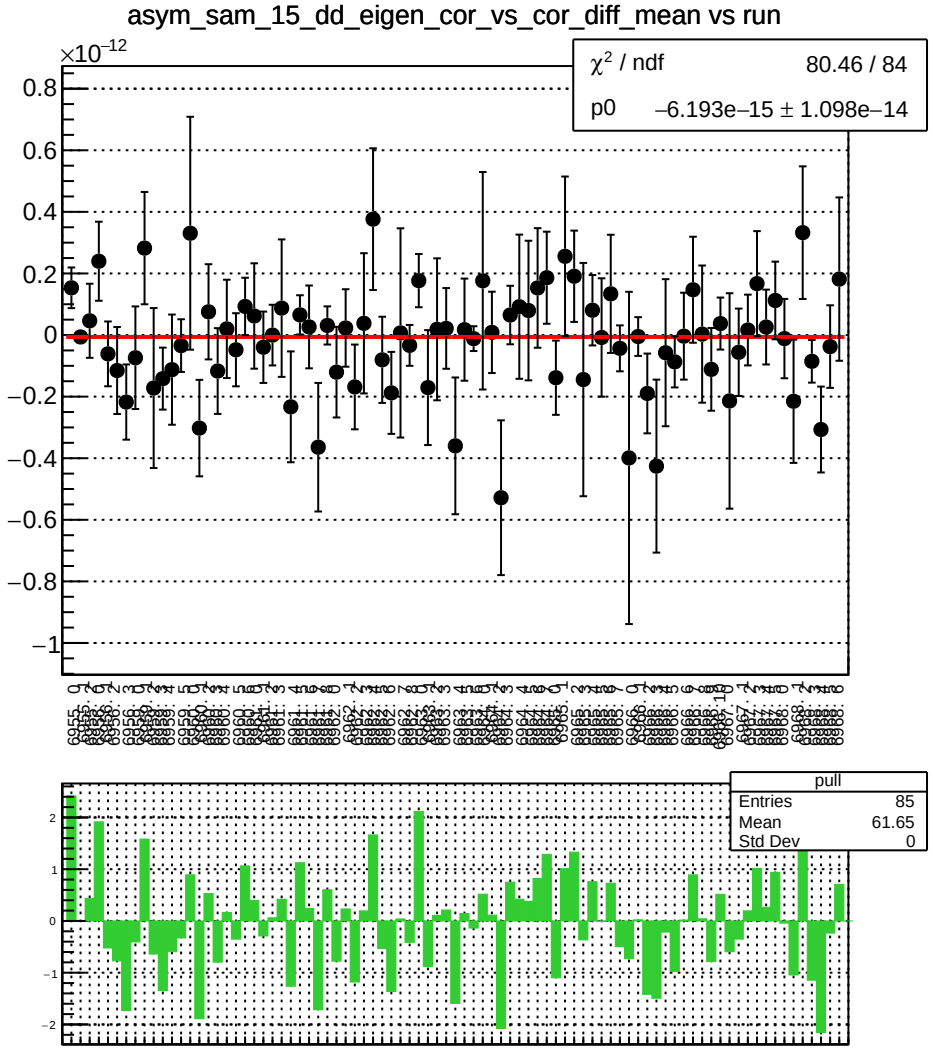

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.24 / 84
p0 0.02769 ± 0.03576
pull
Entries 85
Mean 362
Std Dev 0

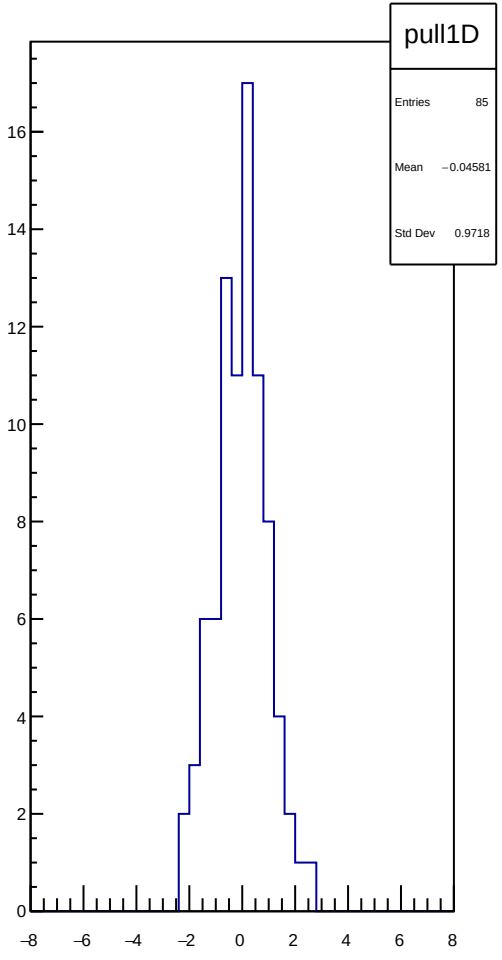

pull1D
Entries 85
Mean −0.01856
Std Dev 1.03

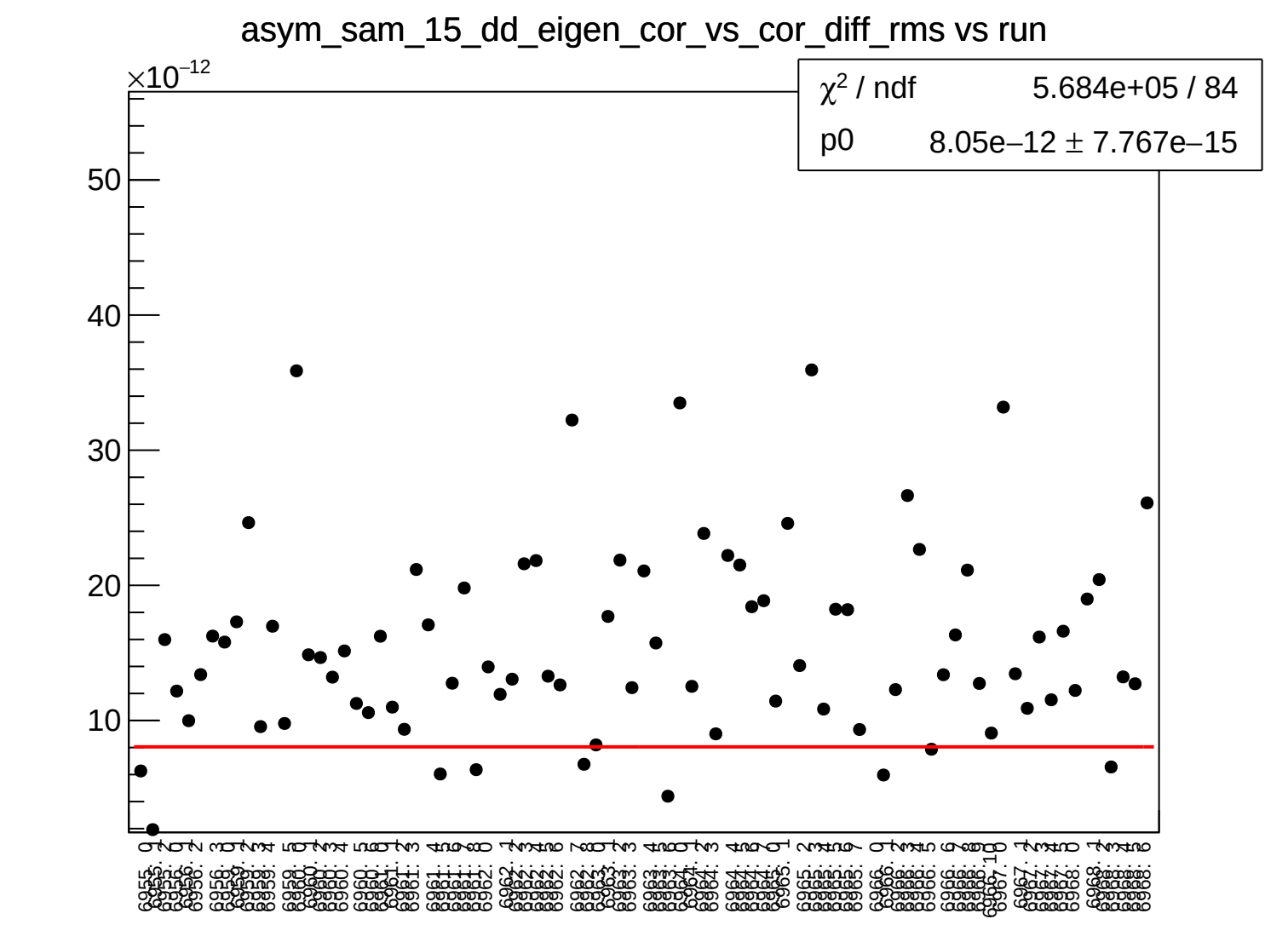

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6746 / 84
p0 32.34 ± 0.02529
36
34
32
30
28

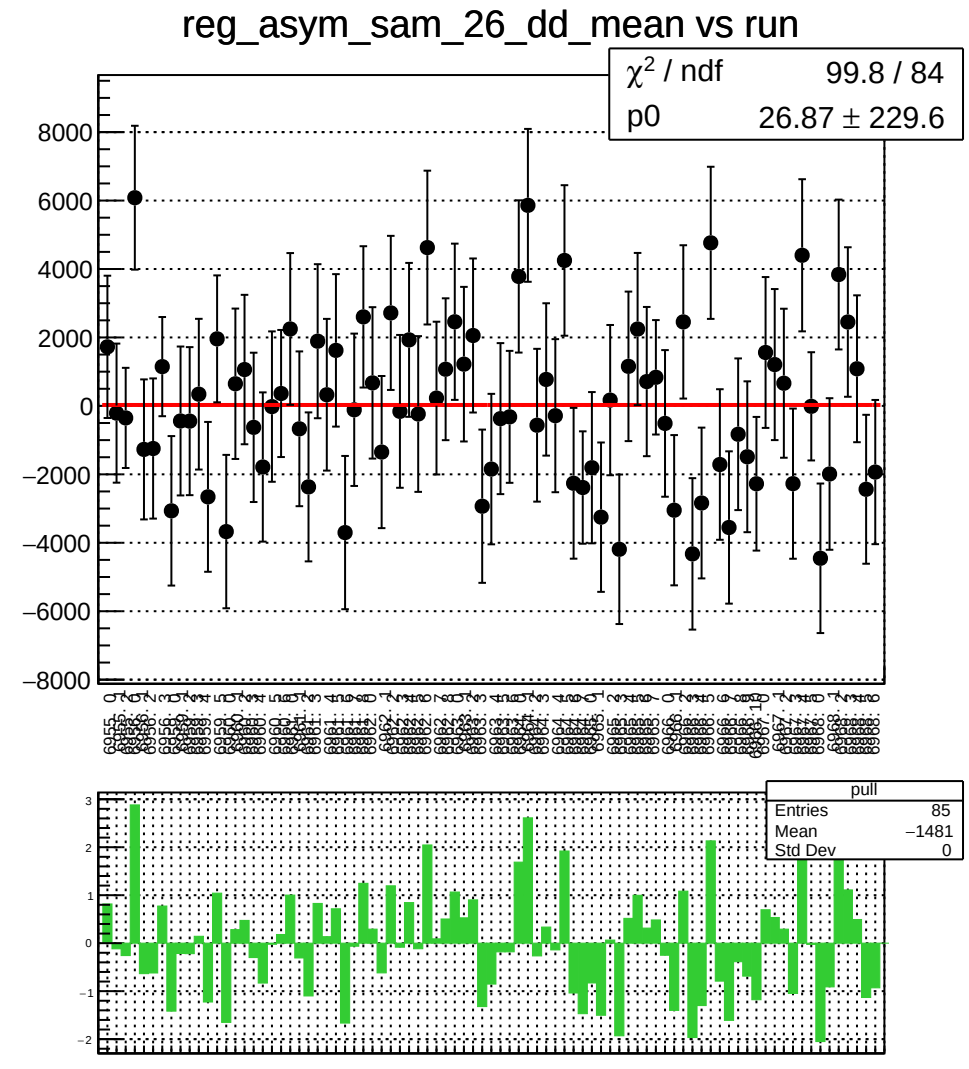

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.24 / 84
p0 0.02769 ± 0.03576
pull
Entries 85
Mean 362
Std Dev 0
pull1D
Entries 85
Mean −0.01856
Std Dev 1.03

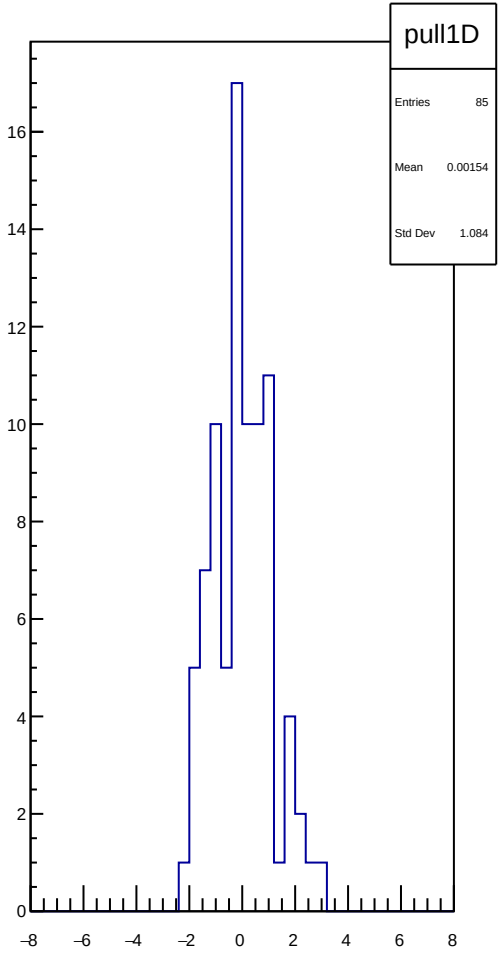

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6746 / 84
p0 32.34 ± 0.02529
36
34
32
30
28

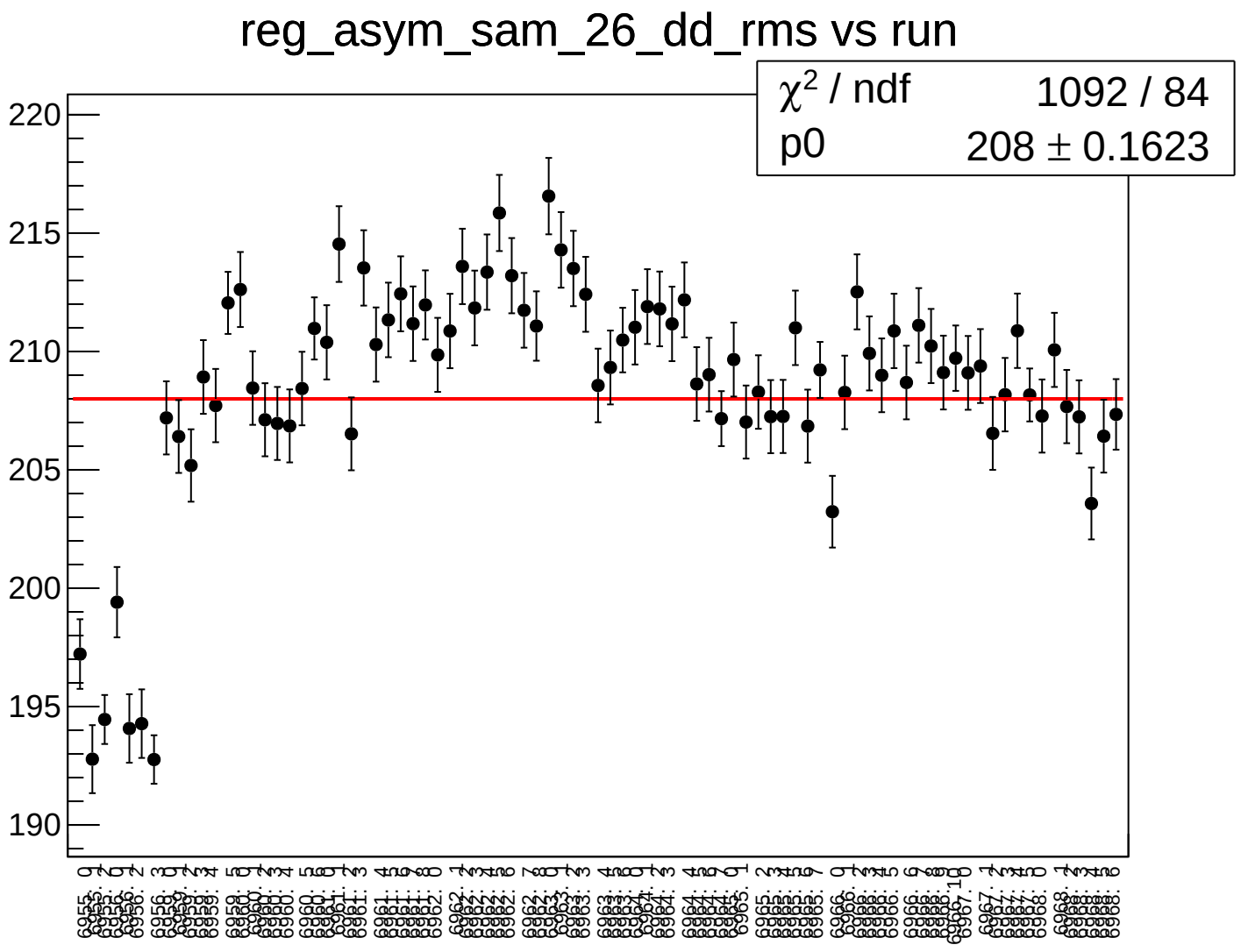

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.46 / 84
p0 −6.193e−15 ± 1.098e−14
pull
Entries 85
Mean 61.65
Std Dev 0

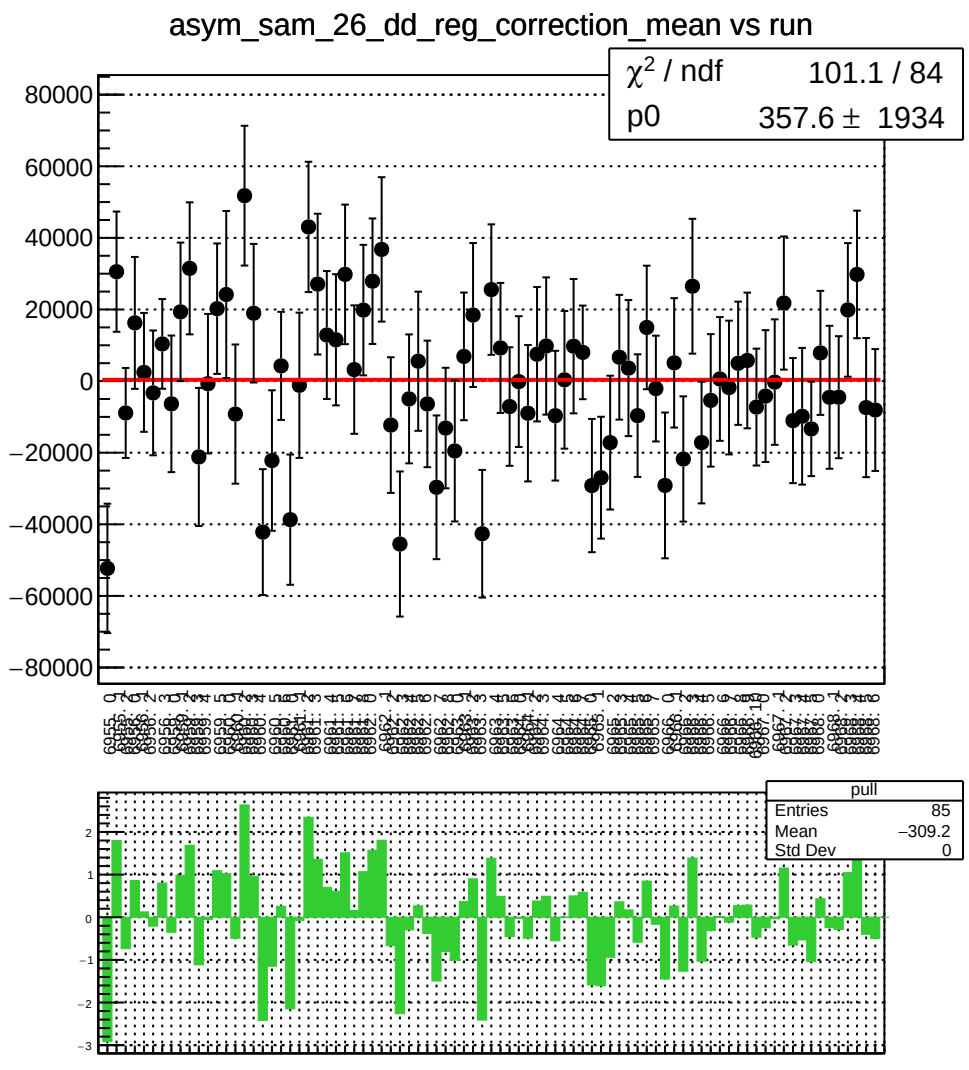

pull1D
Entries 85
Mean −0.04581
Std Dev 0.9718

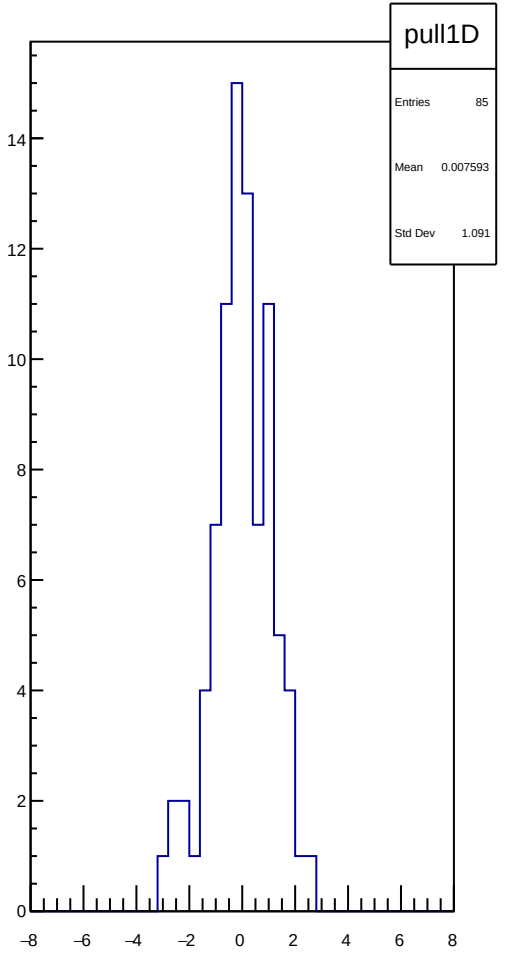

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.684e+05 / 84
p0 8.05e−12 ± 7.767e−15
50
40
30
20
10

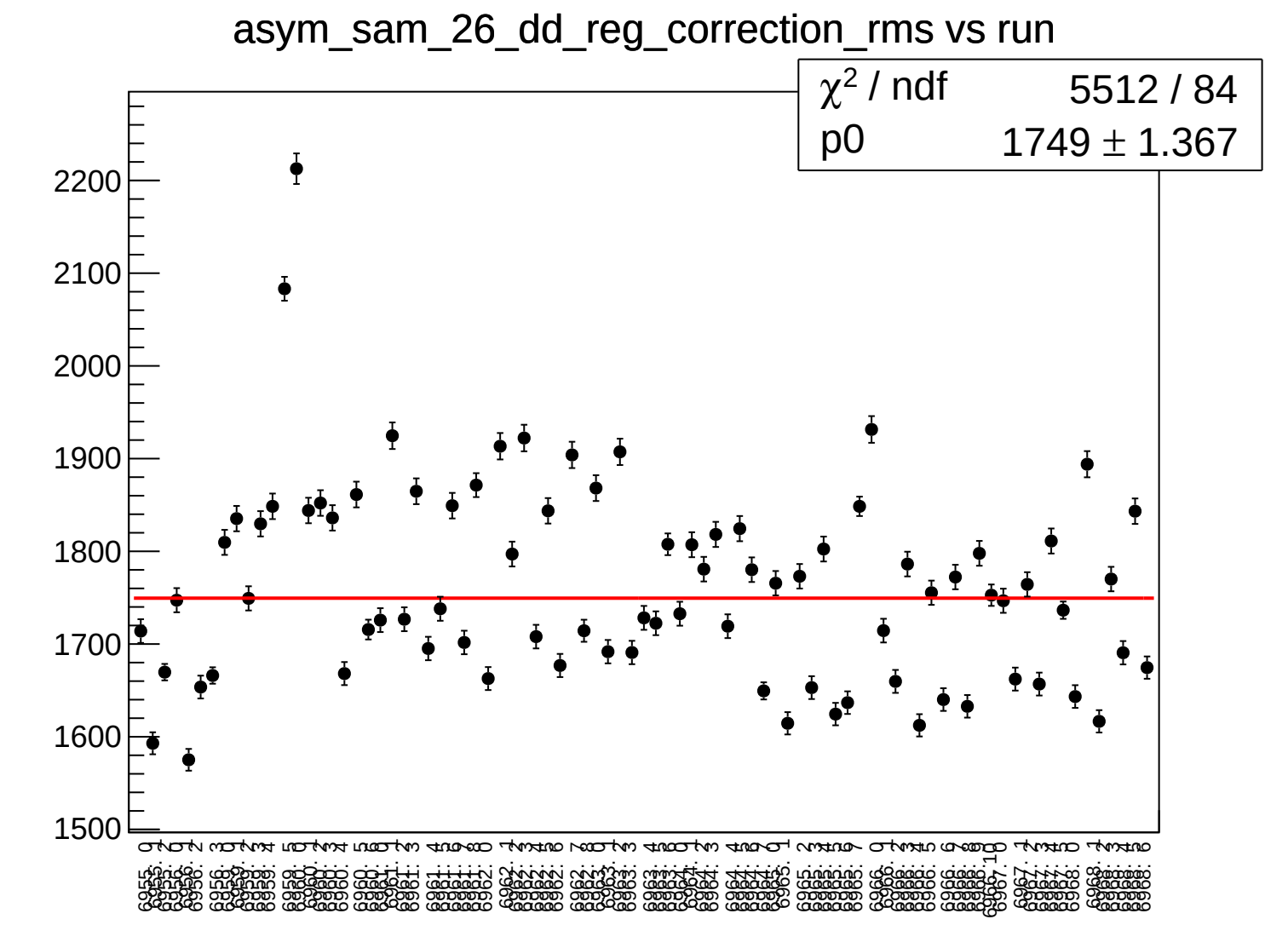

reg_asym_sam_26_dd_mean vs run
χ² / ndf 99.8 / 84
p0 26.87 ± 229.6
pull
Entries 85
Mean −1481
Std Dev 0

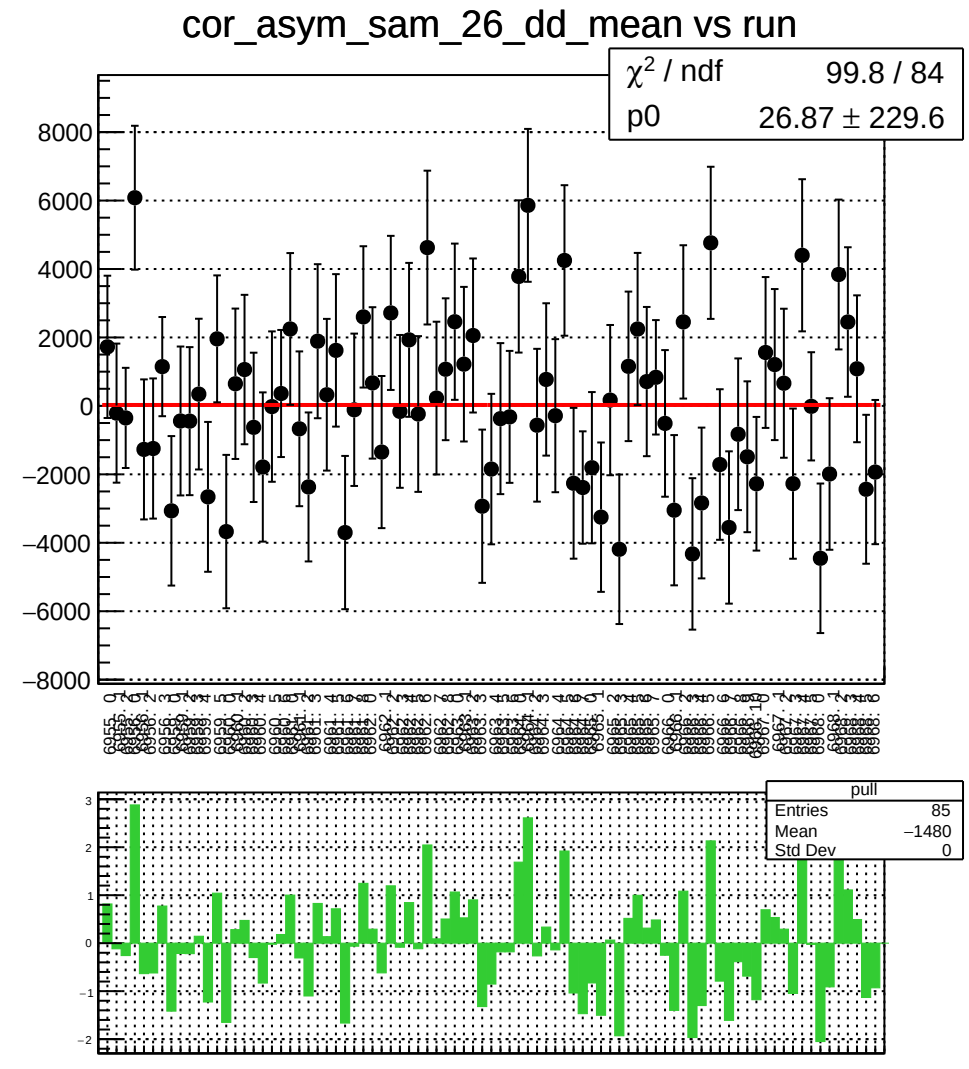

pull1D
Entries 85
Mean 0.00154
Std Dev 1.084

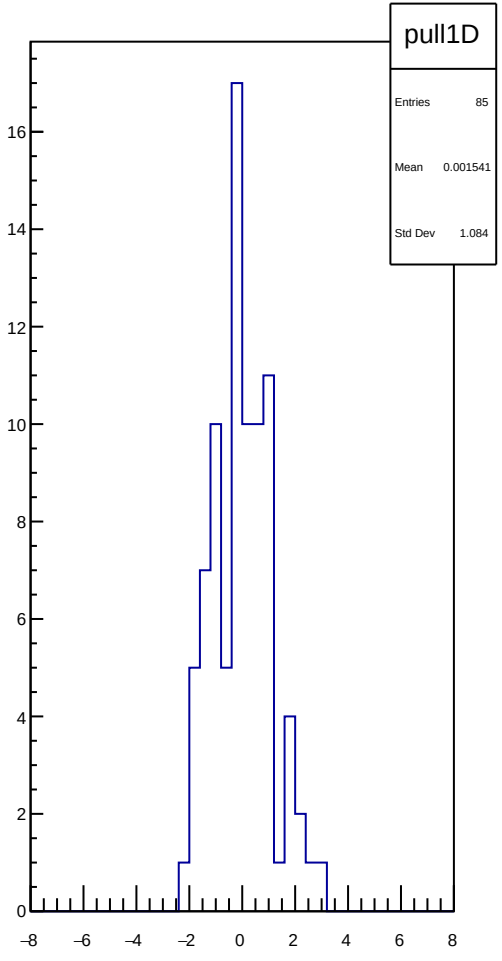

reg_asym_sam_26_dd_rms vs run
$\chi^2$ / ndf 1092 / 84
p0 208 ± 0.1623
220
215
210
205
200
195
190

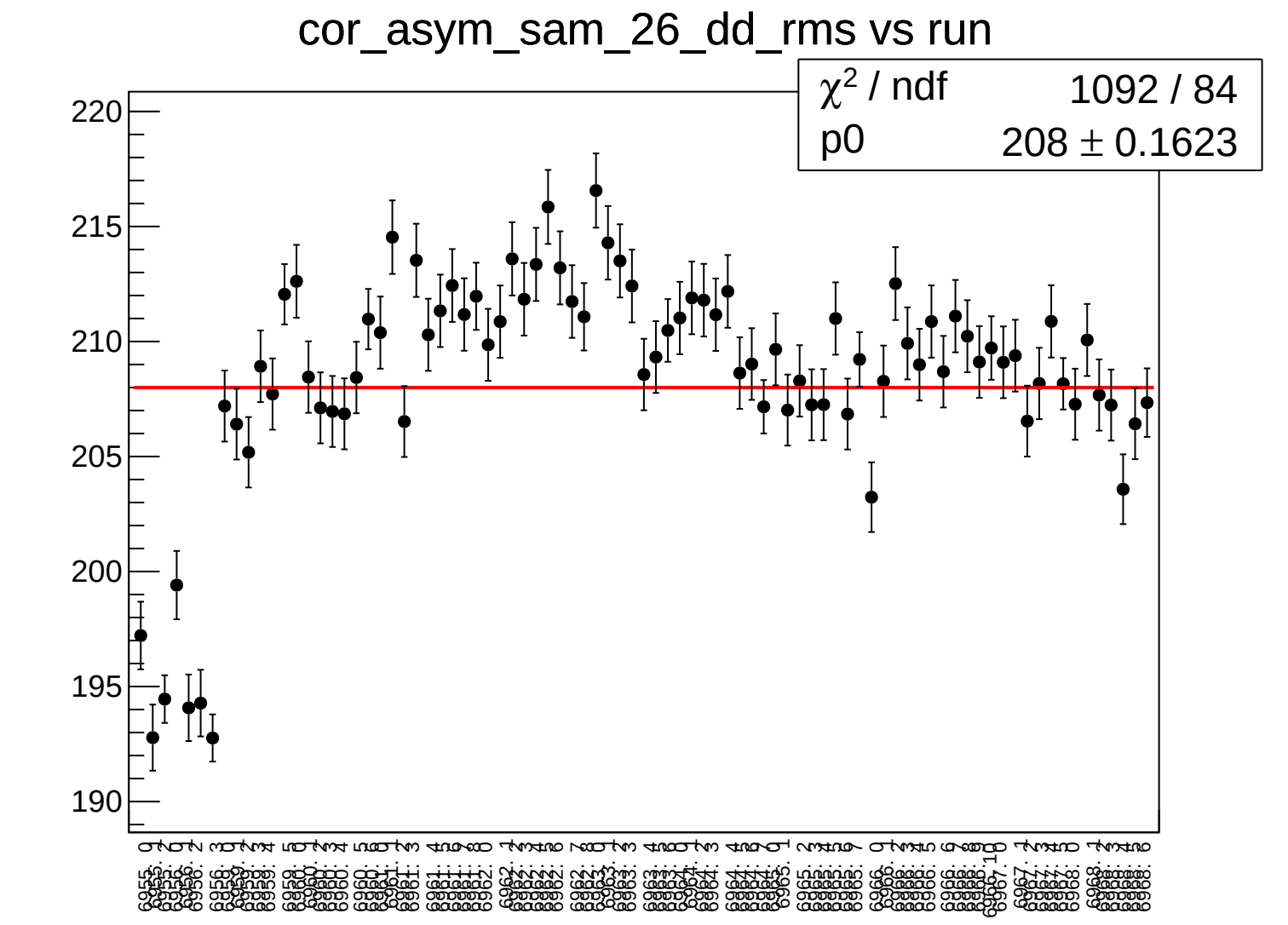

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 101.1 / 84
p0 357.6 ± 1934
pull
Entries 85
Mean −309.2
Std Dev 0

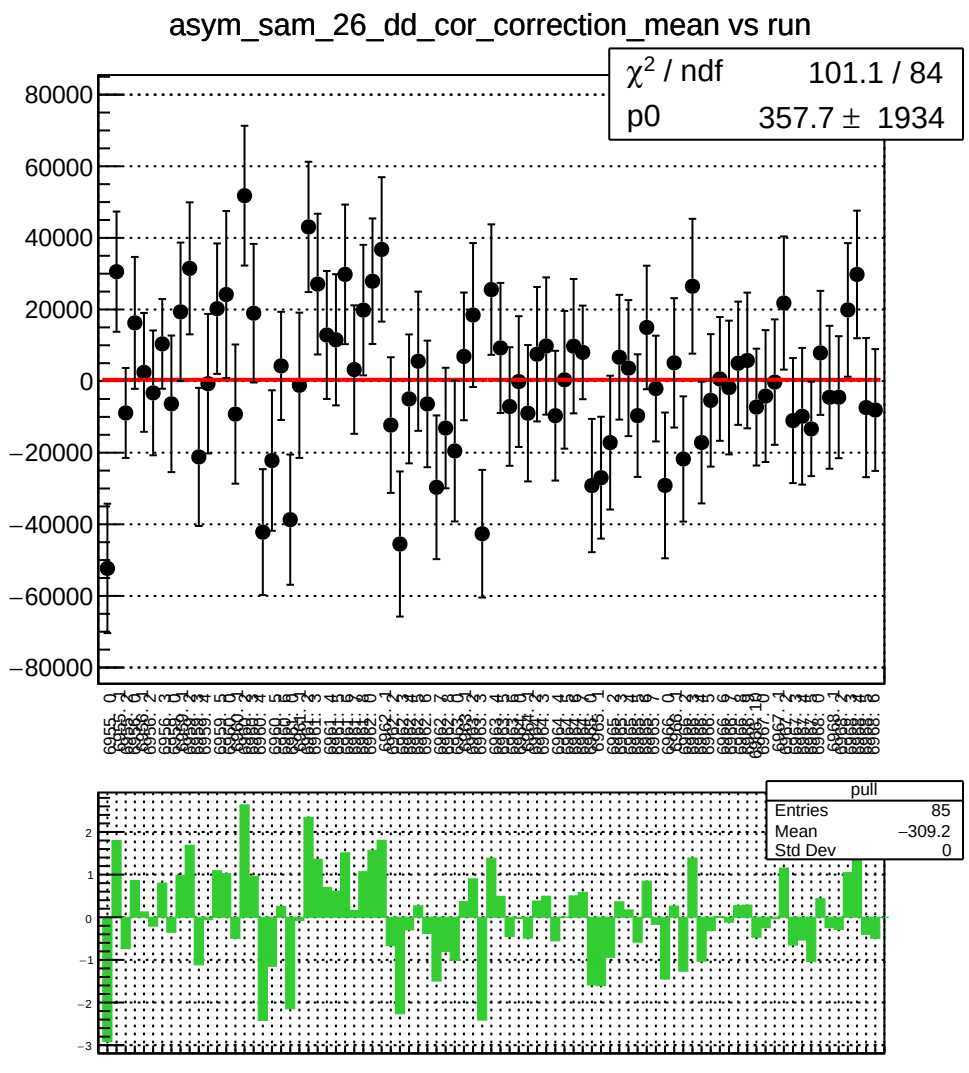

pull1D
Entries 85
Mean 0.007593
Std Dev 1.091

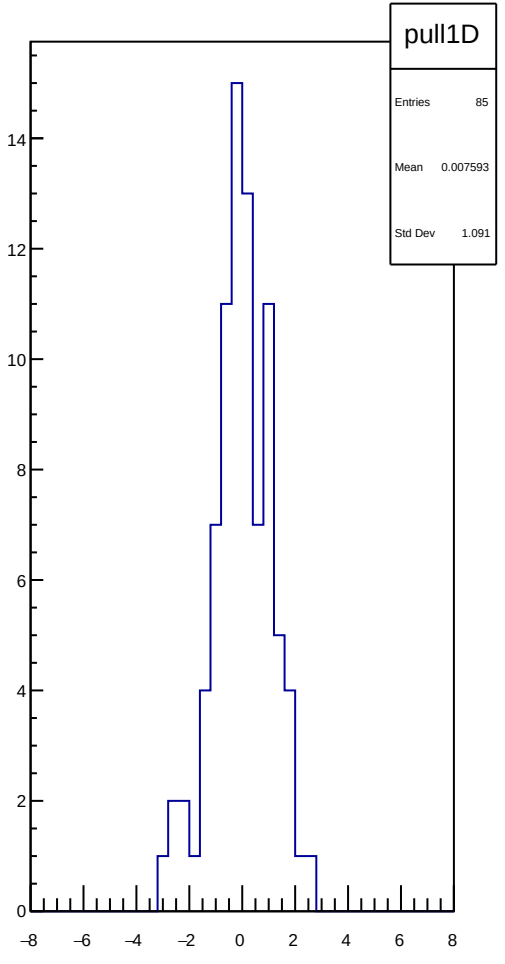

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 5512 / 84
p0 1749 ± 1.367
2200
2100
2000
1900
1800
1700
1600
1500

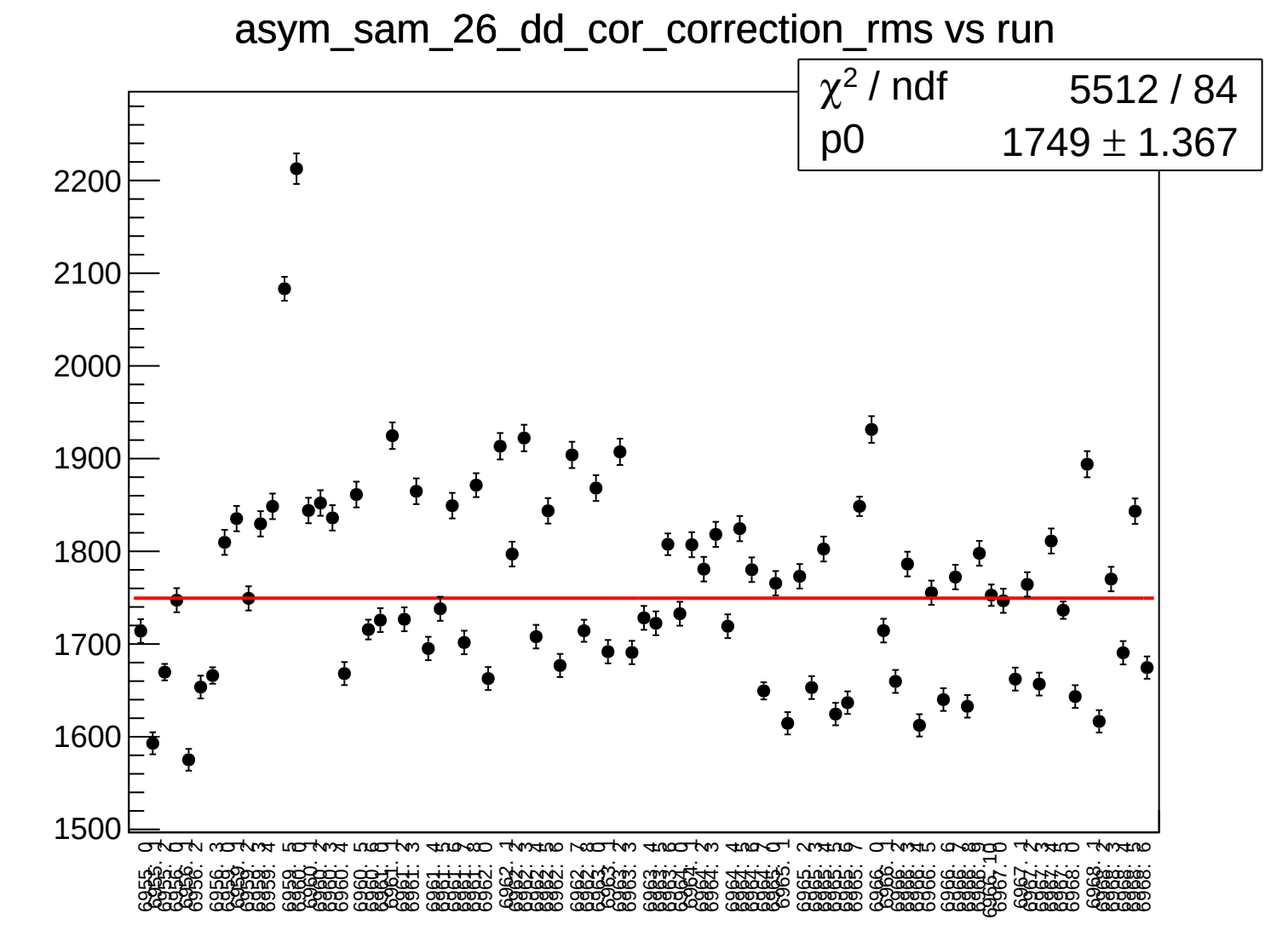

cor_asym_sam_26_dd_mean vs run
χ² / ndf 99.8 / 84
p0 26.87 ± 229.6
pull
Entries 85
Mean −1480
Std Dev 0

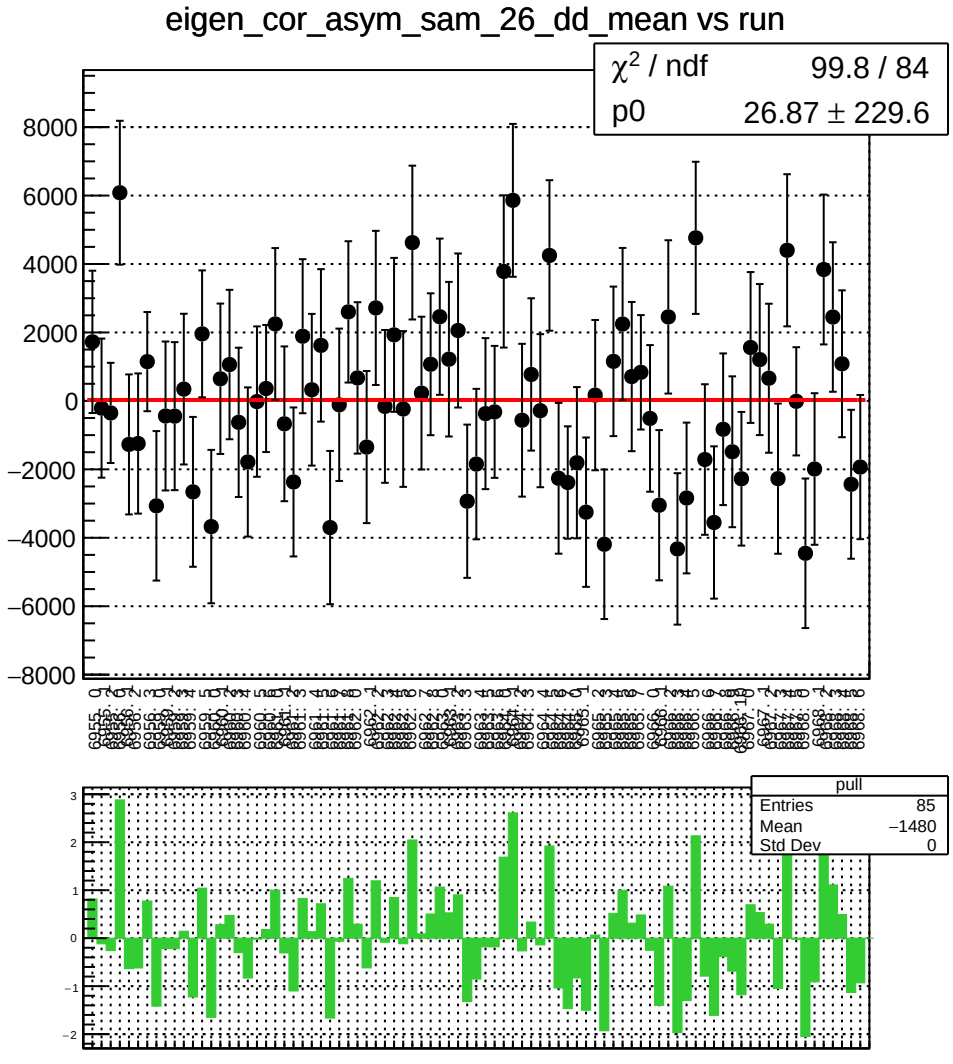

pull1D
Entries 85
Mean 0.001541
Std Dev 1.084

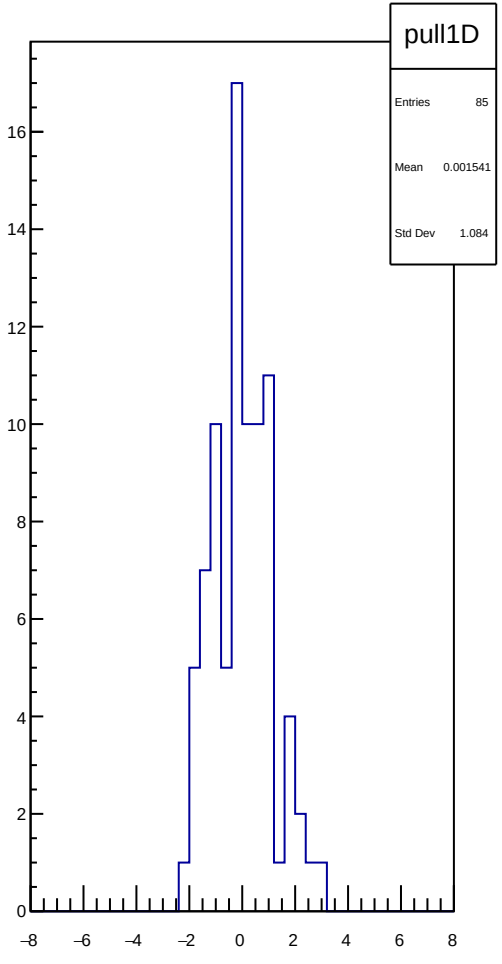

cor_asym_sam_26_dd_rms vs run
$\chi^2$ / ndf 1092 / 84
p0 208 ± 0.1623
220
215
210
205
200
195
190

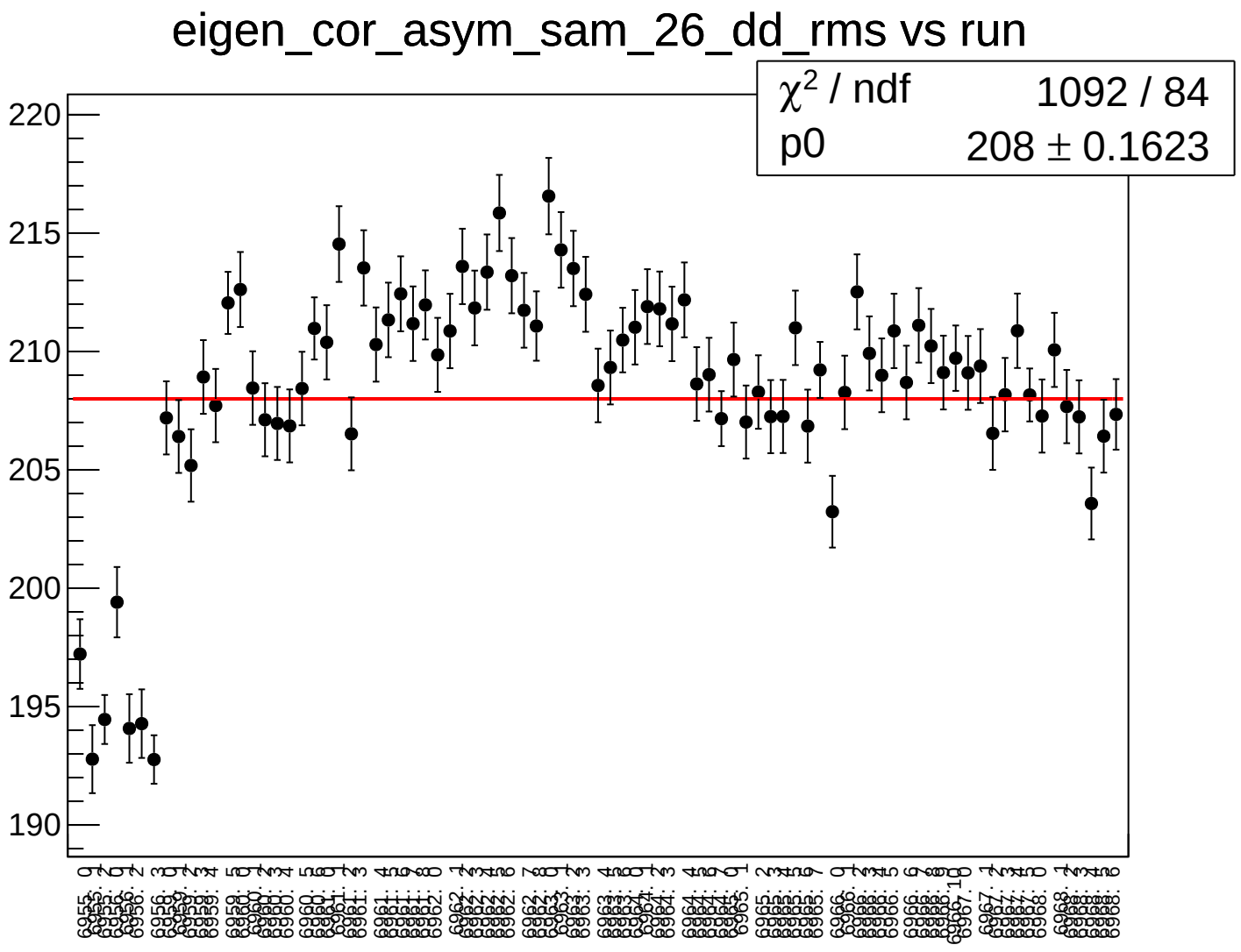

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 101.1 / 84
p0 357.7 ± 1934
pull
Entries 85
Mean −309.2
Std Dev 0

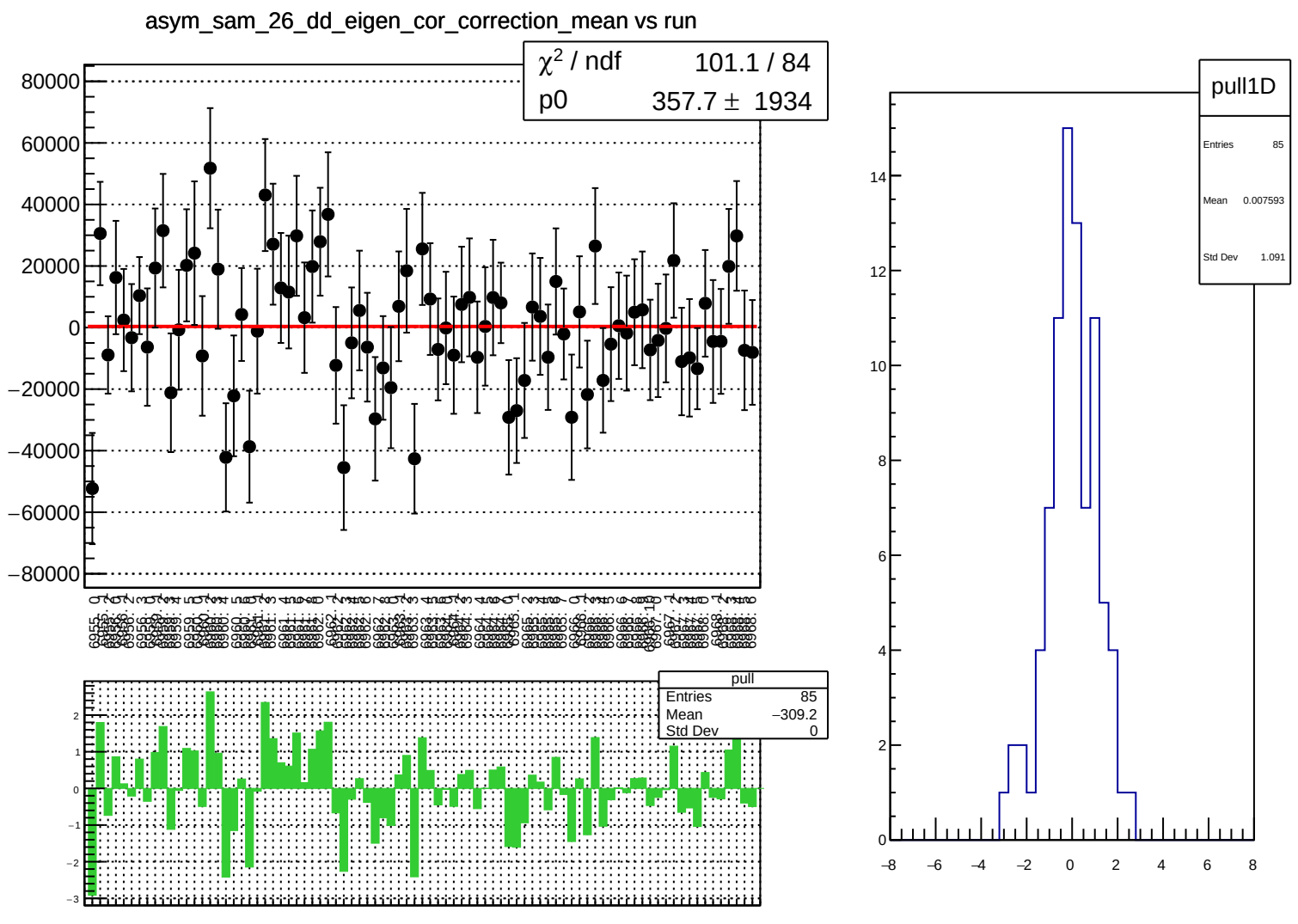

pull1D
Entries 85
Mean 0.007593
Std Dev 1.091

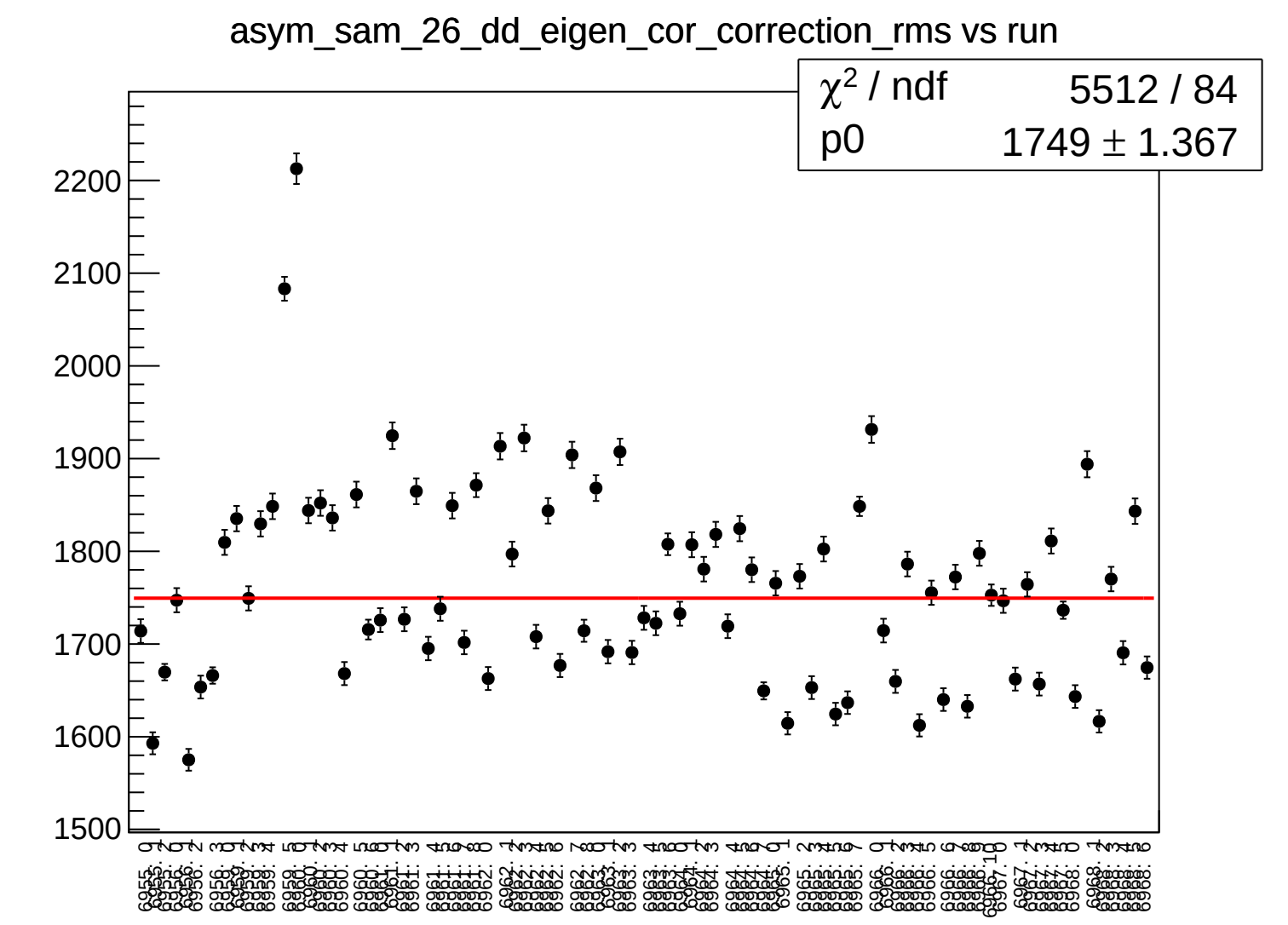

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 5512 / 84
p0 1749 ± 1.367
2200
2100
2000
1900
1800
1700
1600
1500

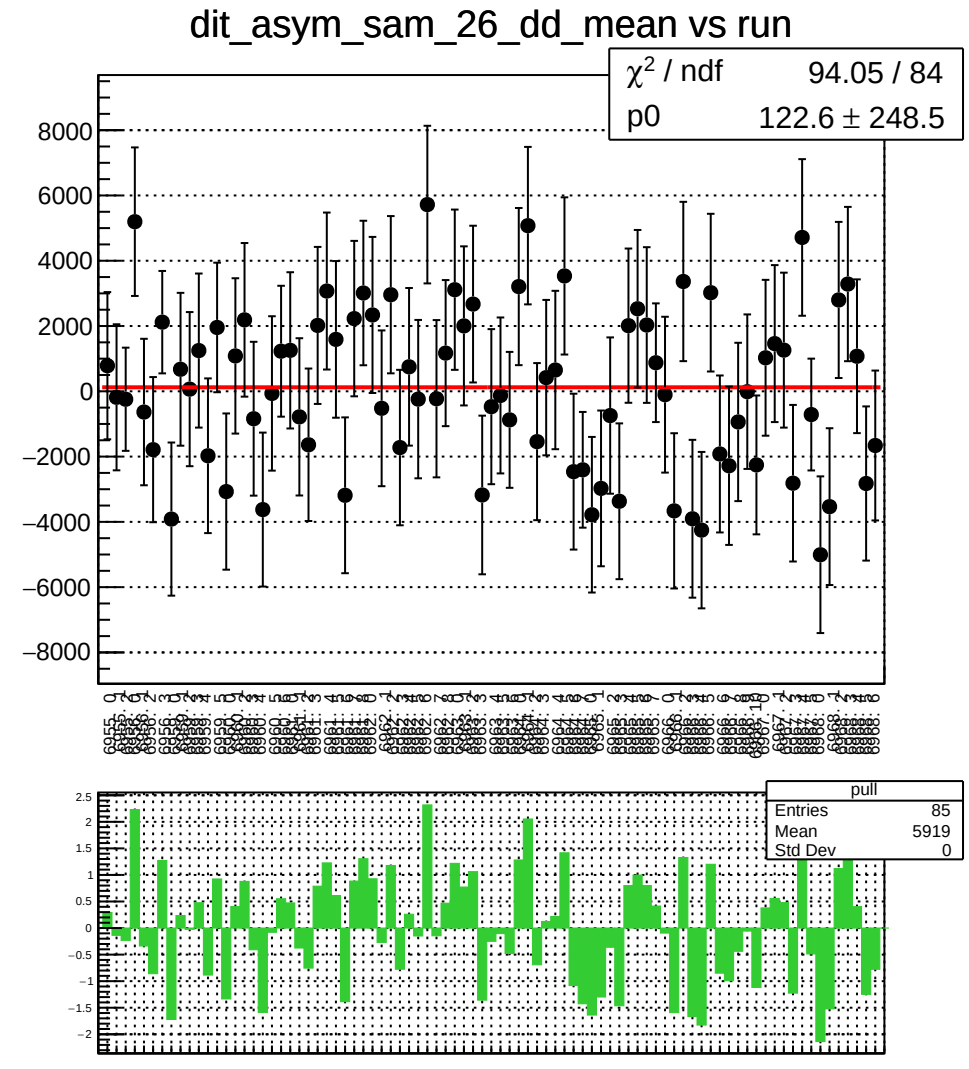

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 99.8 / 84
p0 26.87 ± 229.6
pull
Entries 85
Mean −1480
Std Dev 0

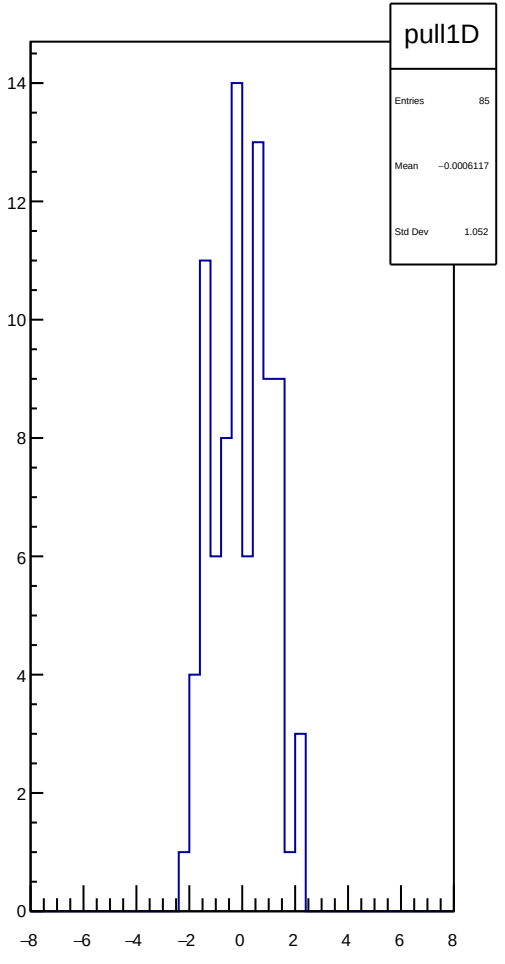

pull1D
Entries 85
Mean 0.001541
Std Dev 1.084

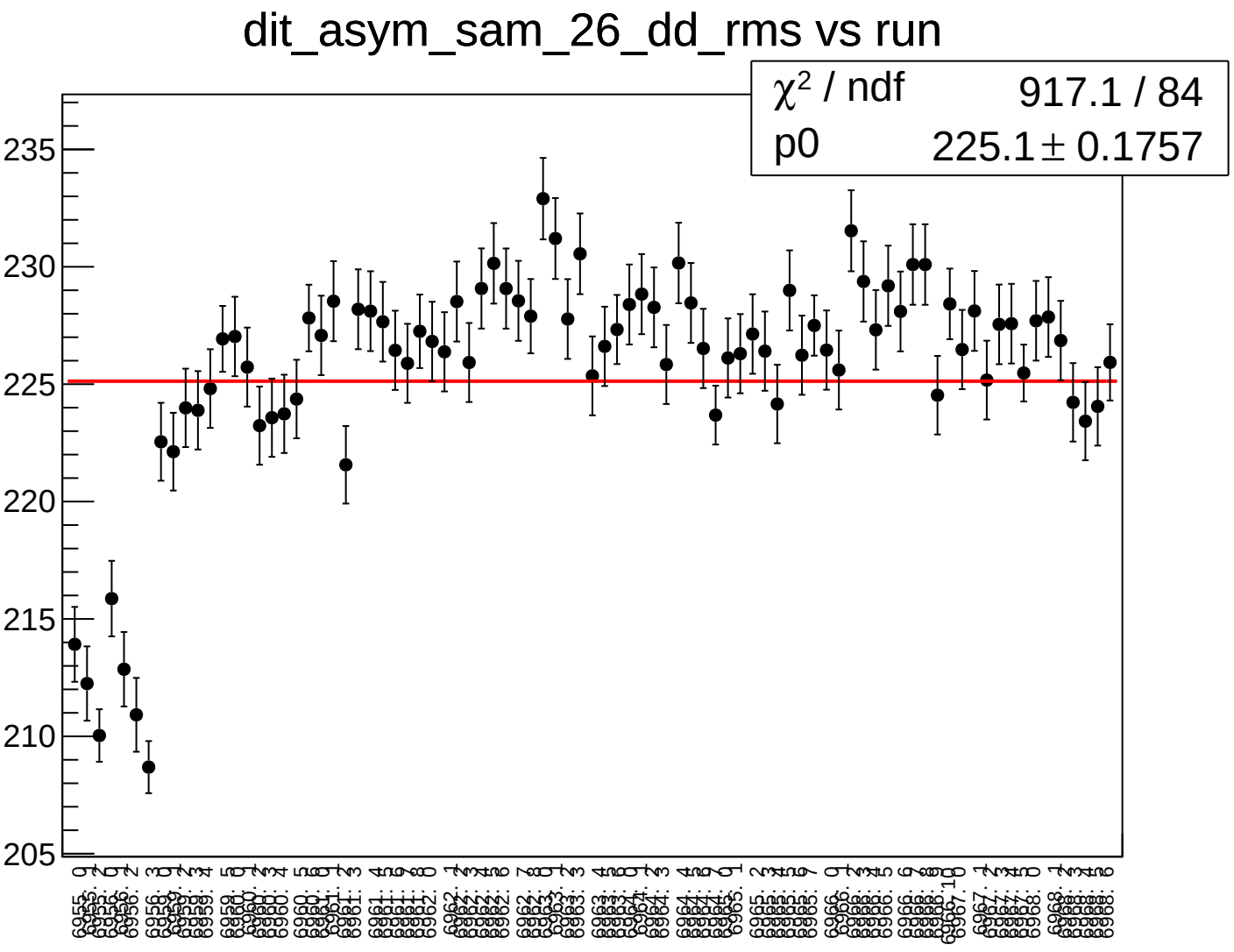

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1092 / 84
p0 208 ± 0.1623
220
215
210
205
200
195
190

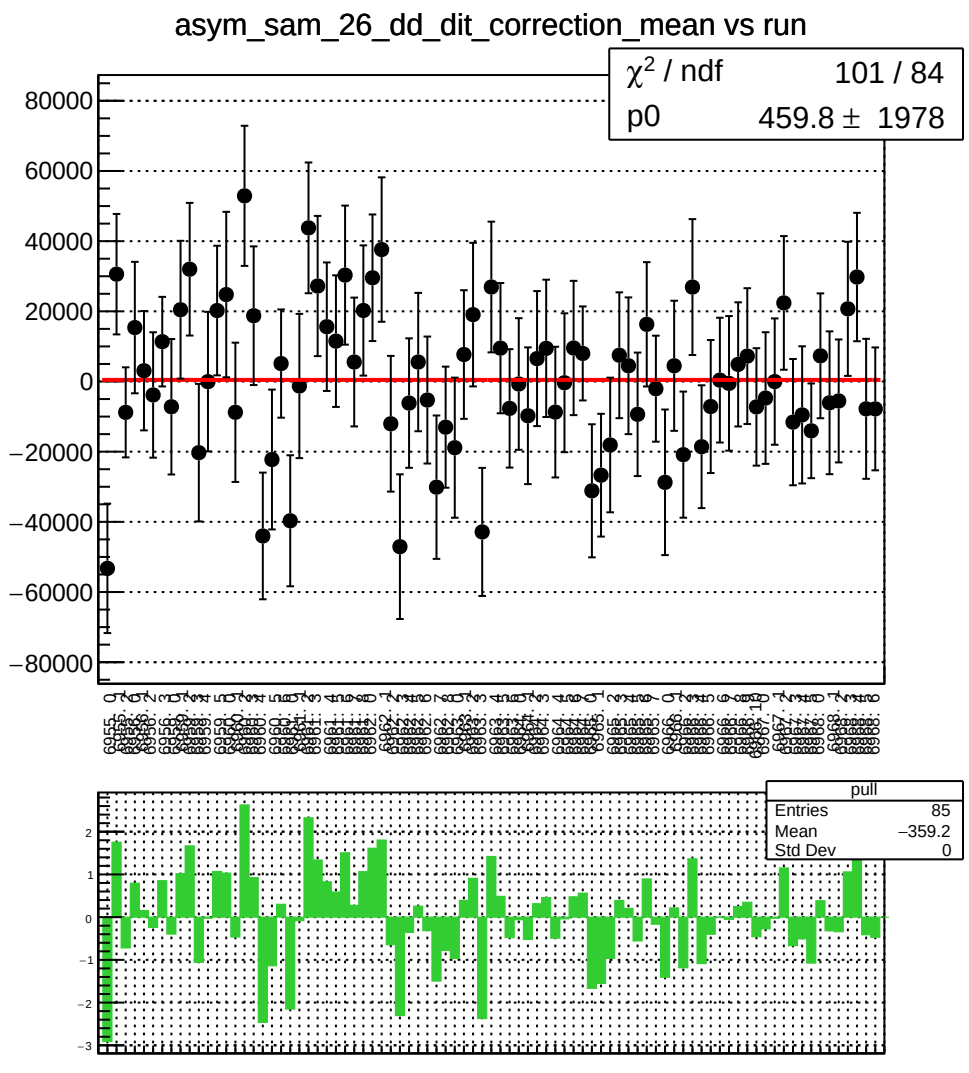

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.1 / 84
p0 357.7 ± 1934
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −309.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.007593
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

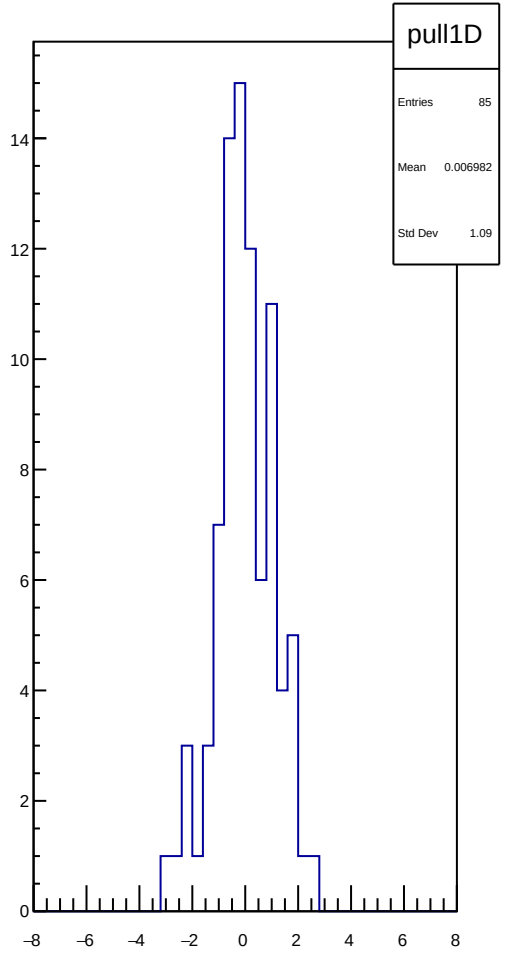

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5512 / 84
p0 1749 ± 1.367
2200
2100
2000
1900
1800
1700
1600
1500

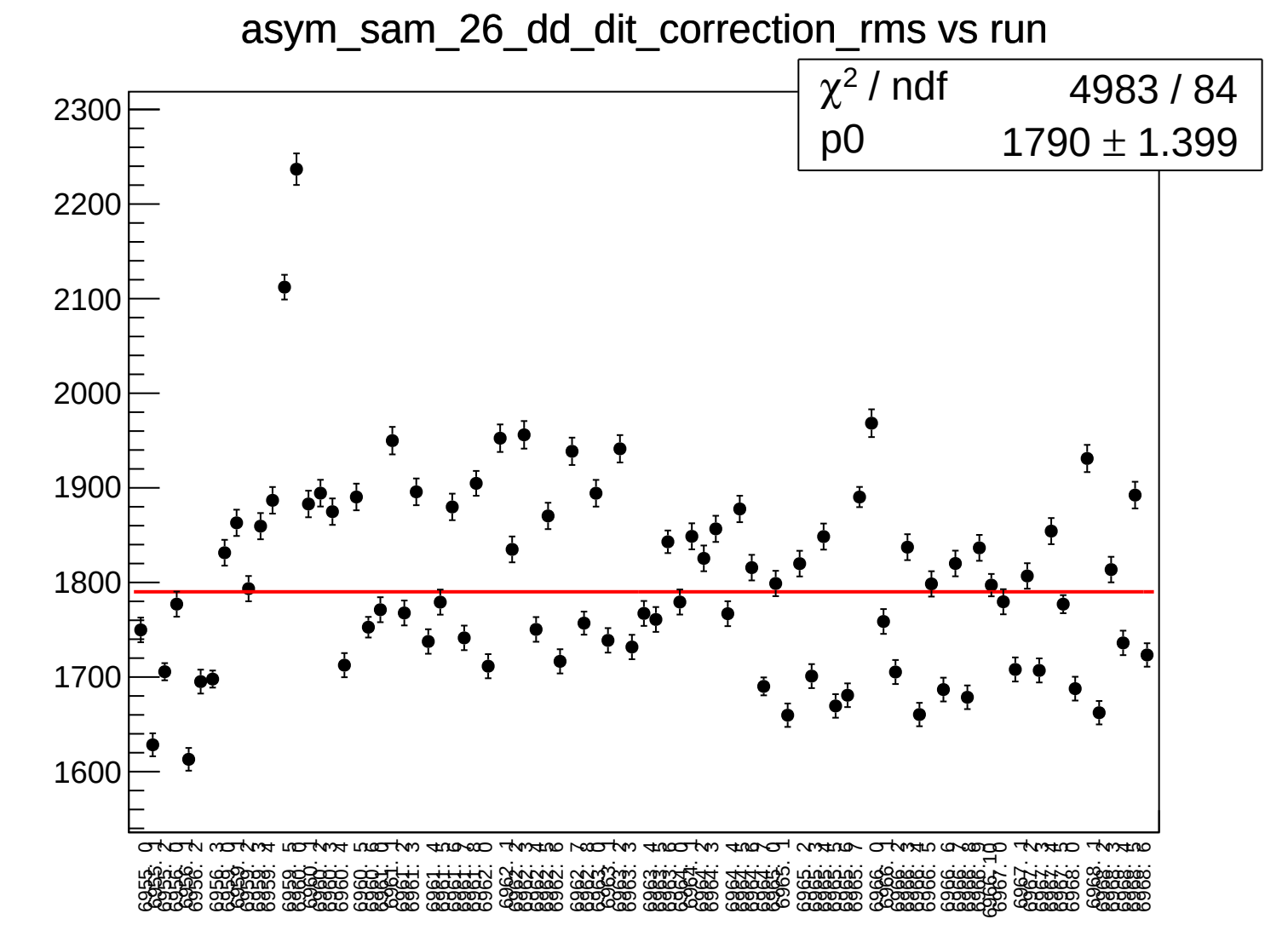

dit_asym_sam_26_dd_mean vs run
$\chi^2$ / ndf 94.05 / 84
p0 122.6 ± 248.5
pull
Entries 85
Mean 5919
Std Dev 0

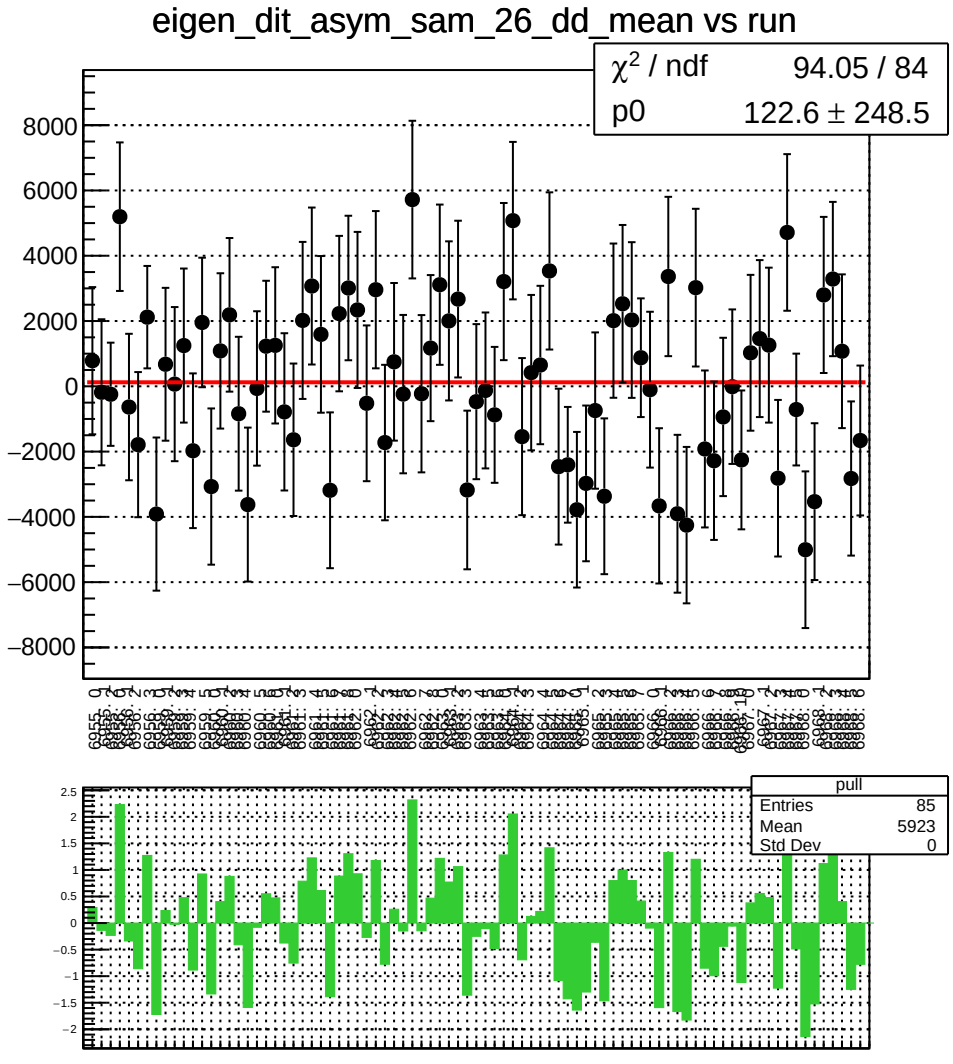

pull1D
Entries 85
Mean −0.0006117
Std Dev 1.052

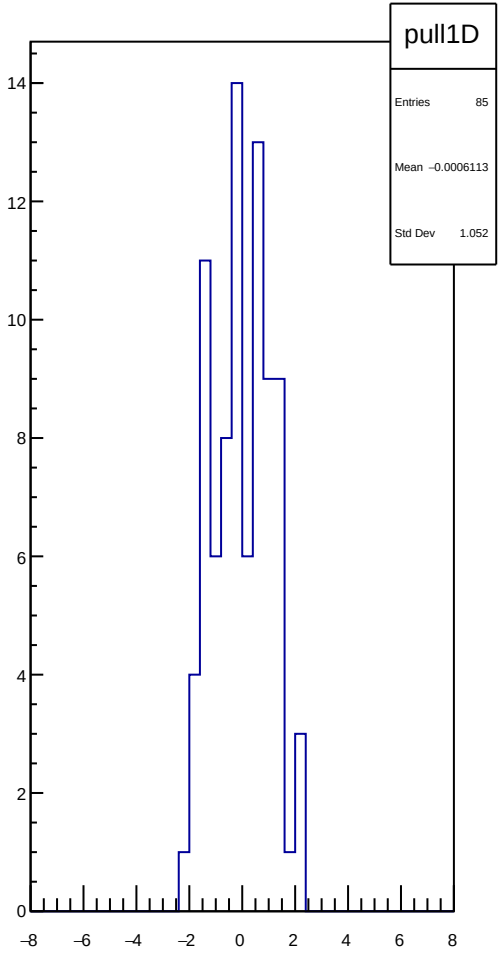

dit_asym_sam_26_dd_rms vs run
χ² / ndf 917.1 / 84
p0 225.1 ± 0.1757
235
230
225
220
215
210
205

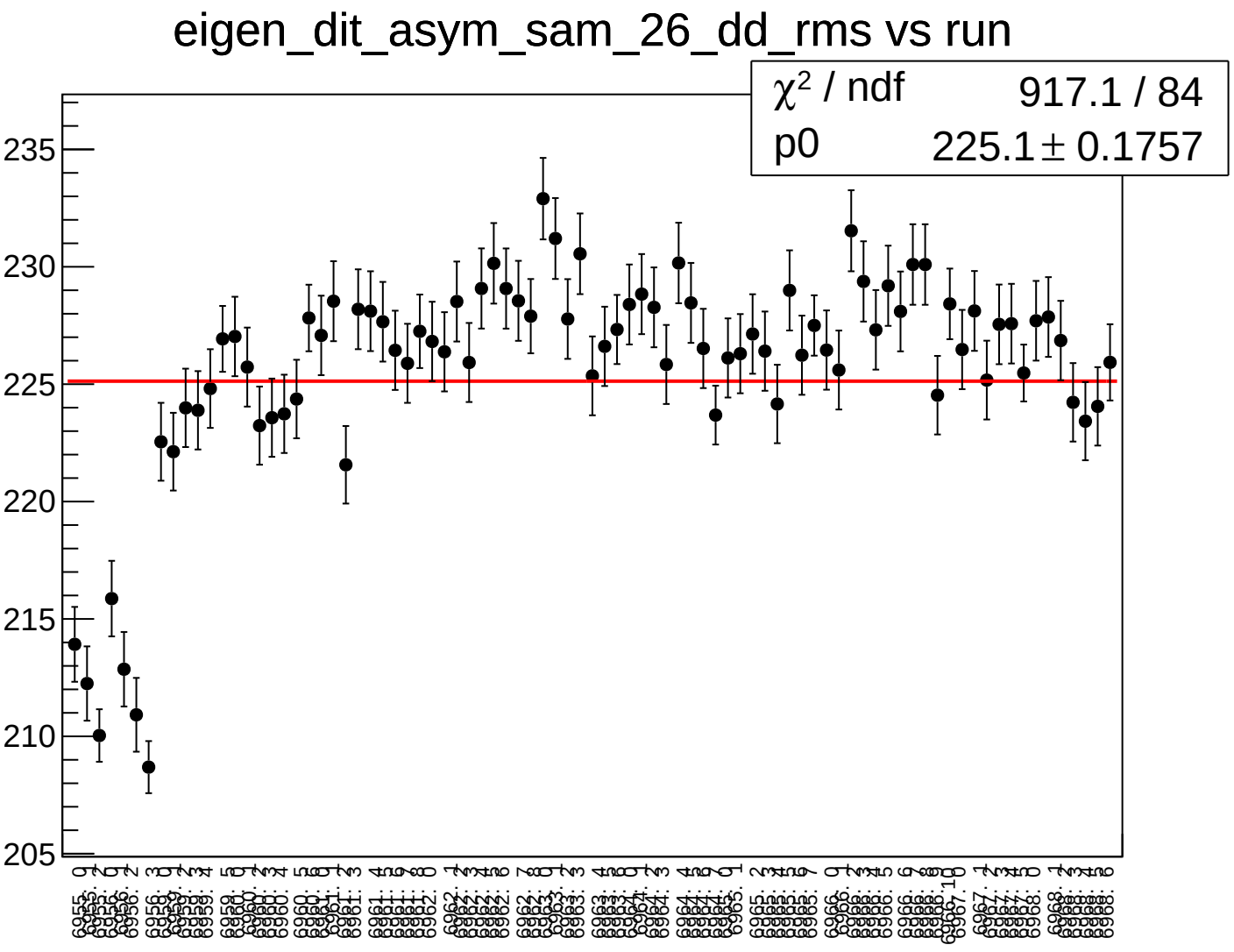

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 101 / 84
p0 459.8 ± 1978
pull
Entries 85
Mean −359.2
Std Dev 0

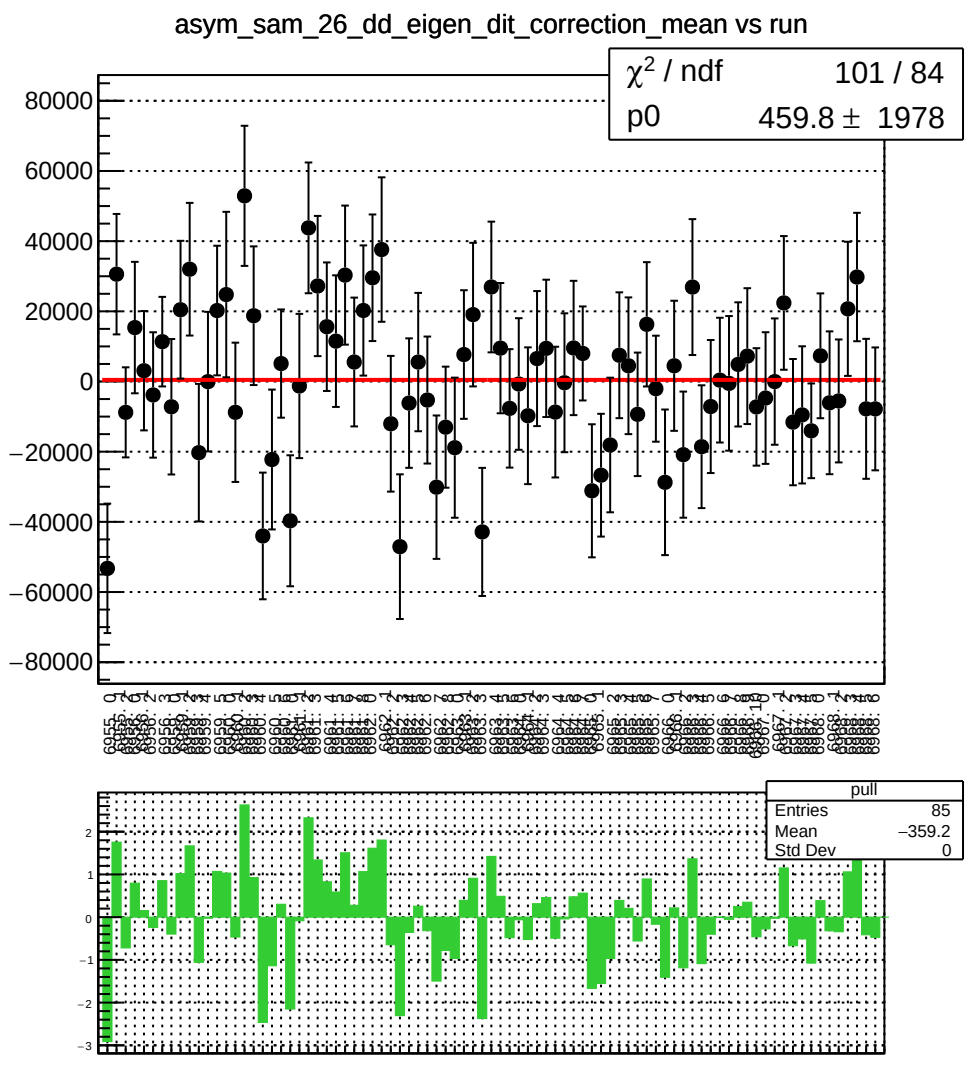

pull1D
Entries 85
Mean 0.006982
Std Dev 1.09

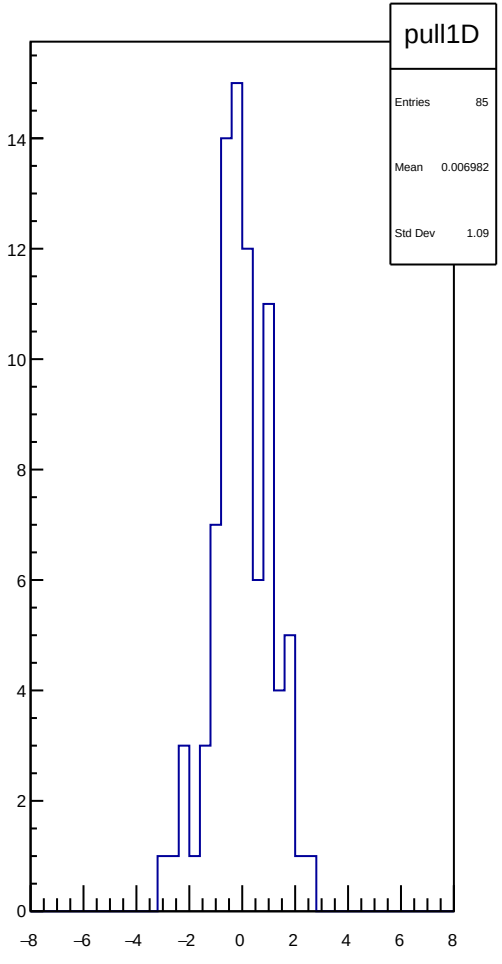

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 4983 / 84
p0 1790 ± 1.399
2300
2200
2100
2000
1900
1800
1700
1600

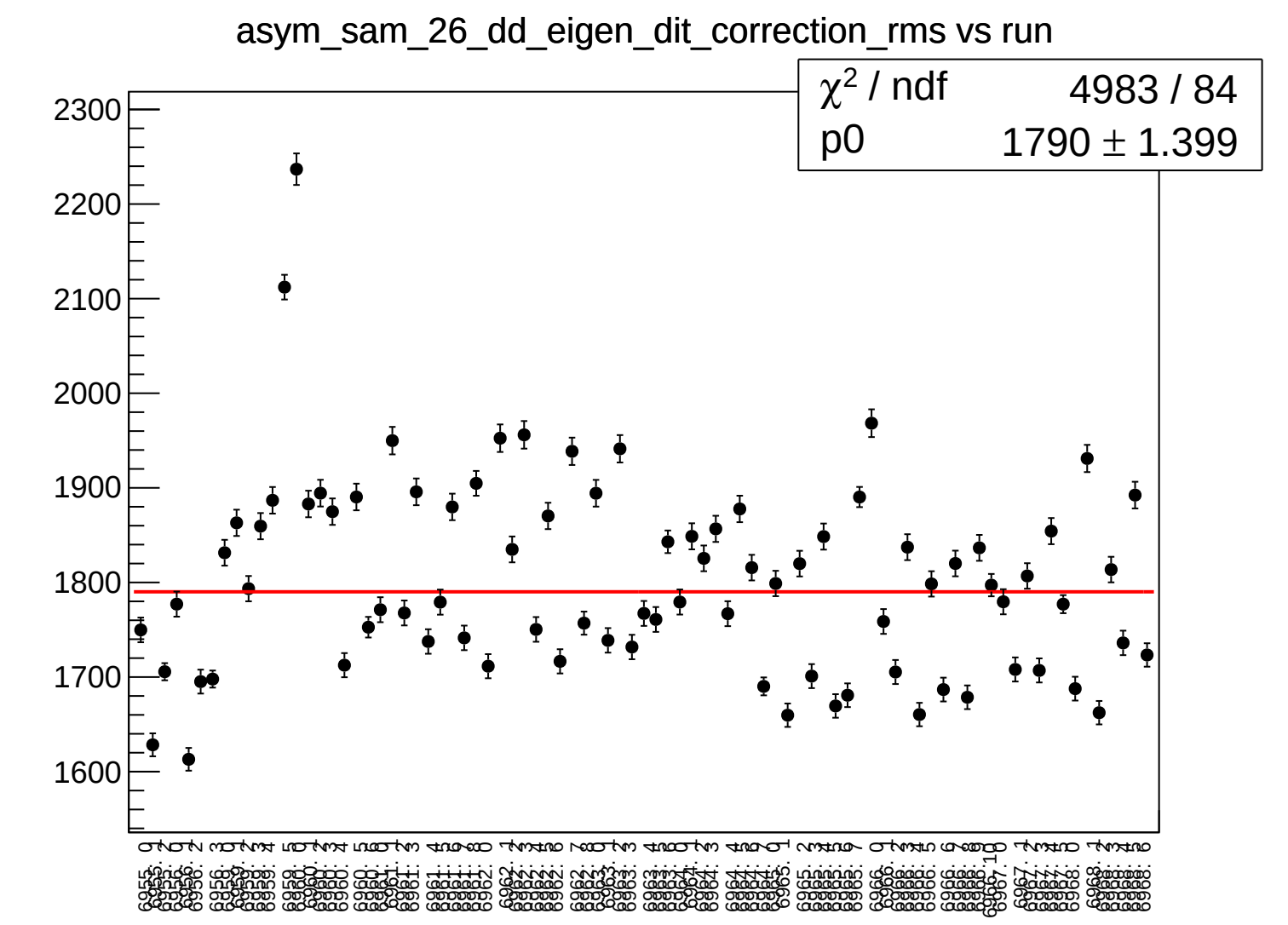

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 94.05 / 84
p0 122.6 ± 248.5
pull
Entries 85
Mean 5923
Std Dev 0

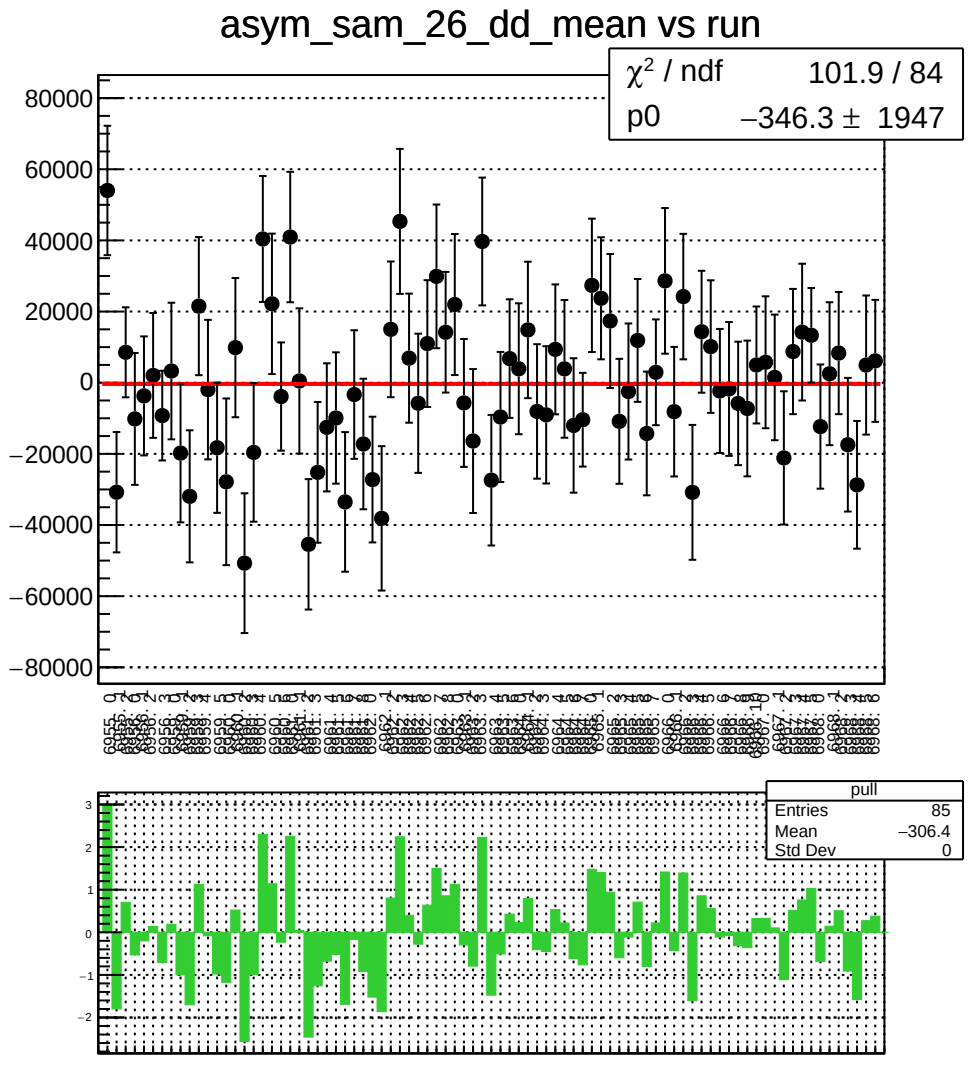

pull1D
Entries 85
Mean −0.0006113
Std Dev 1.052

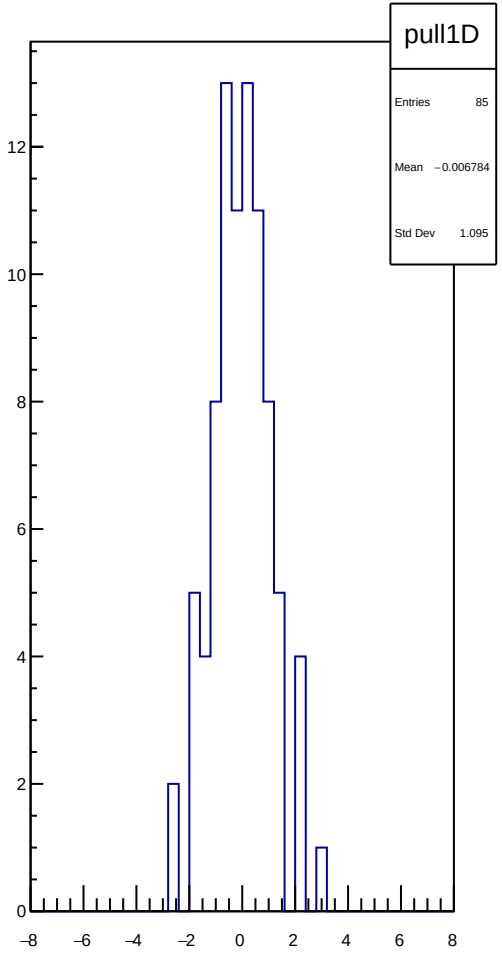

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 917.1 / 84
p0 225.1 ± 0.1757
235
230
225
220
215
210
205

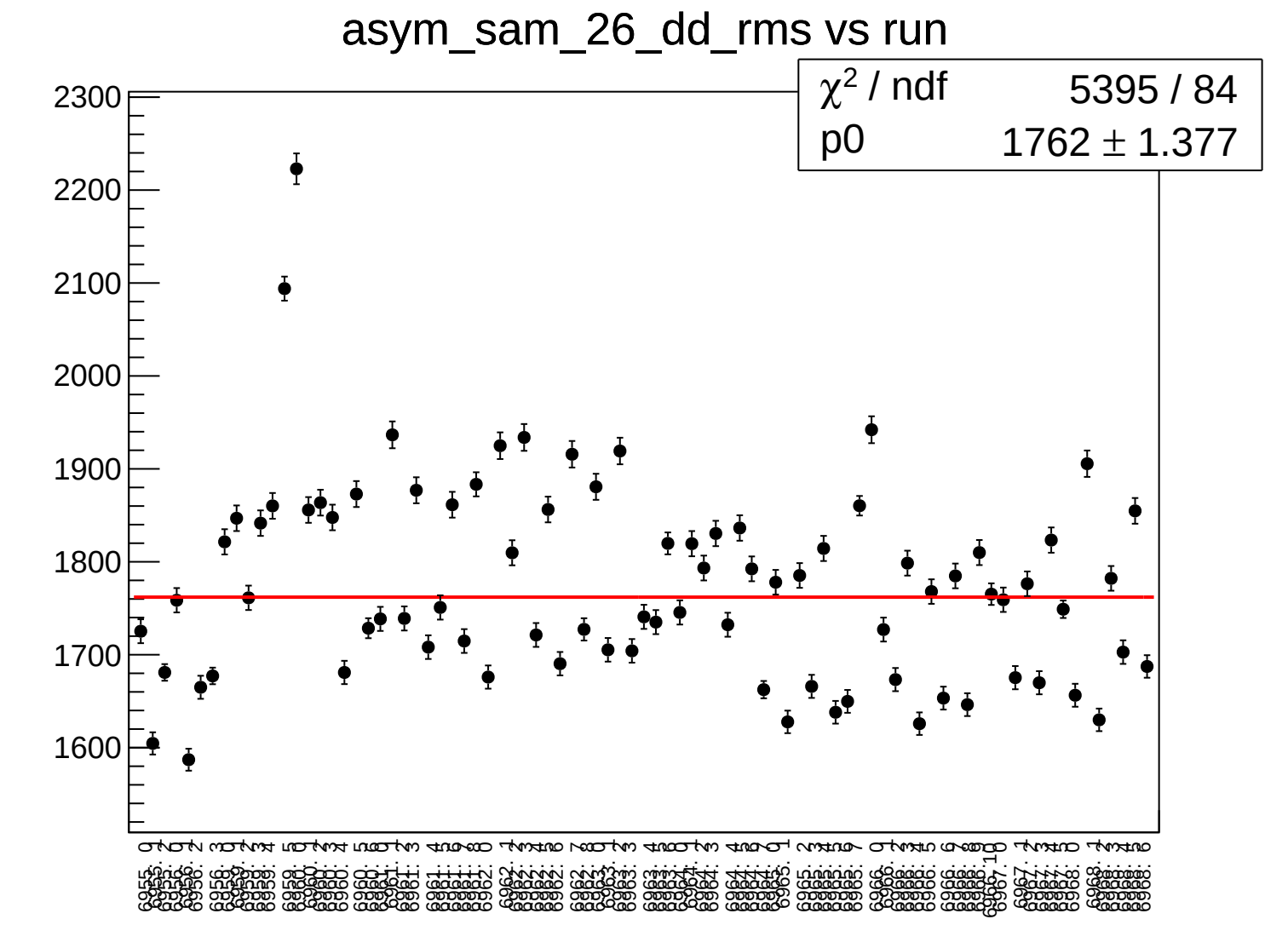

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 101 / 84
p0 459.8 ± 1978
pull
Entries 85
Mean −359.2
Std Dev 0

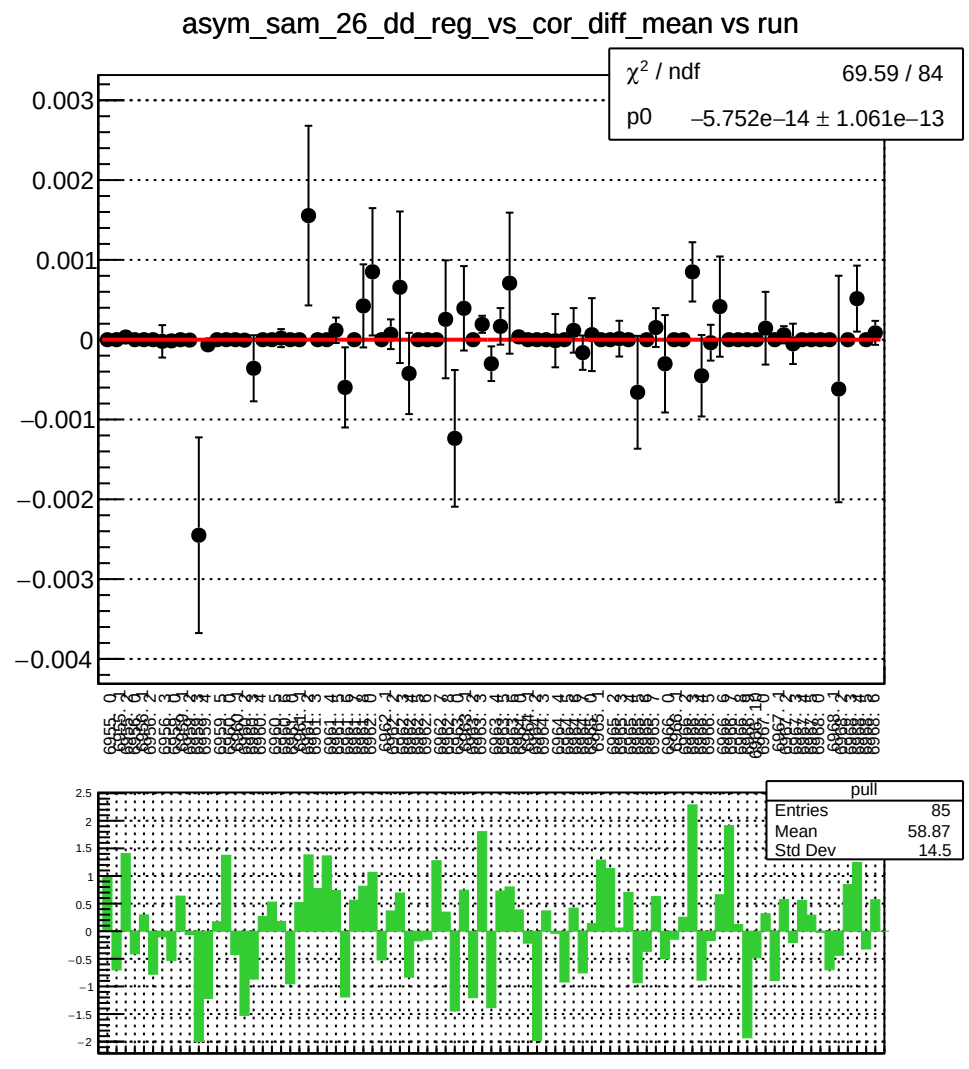

pull1D
Entries 85
Mean 0.006982
Std Dev 1.09

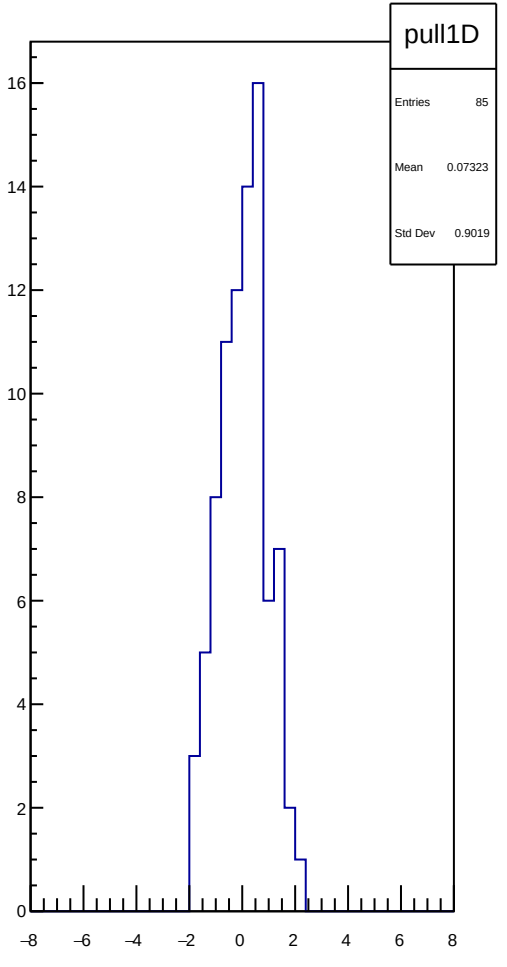

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4983 / 84
p0 1790 ± 1.399
2300
2200
2100
2000
1900
1800
1700
1600

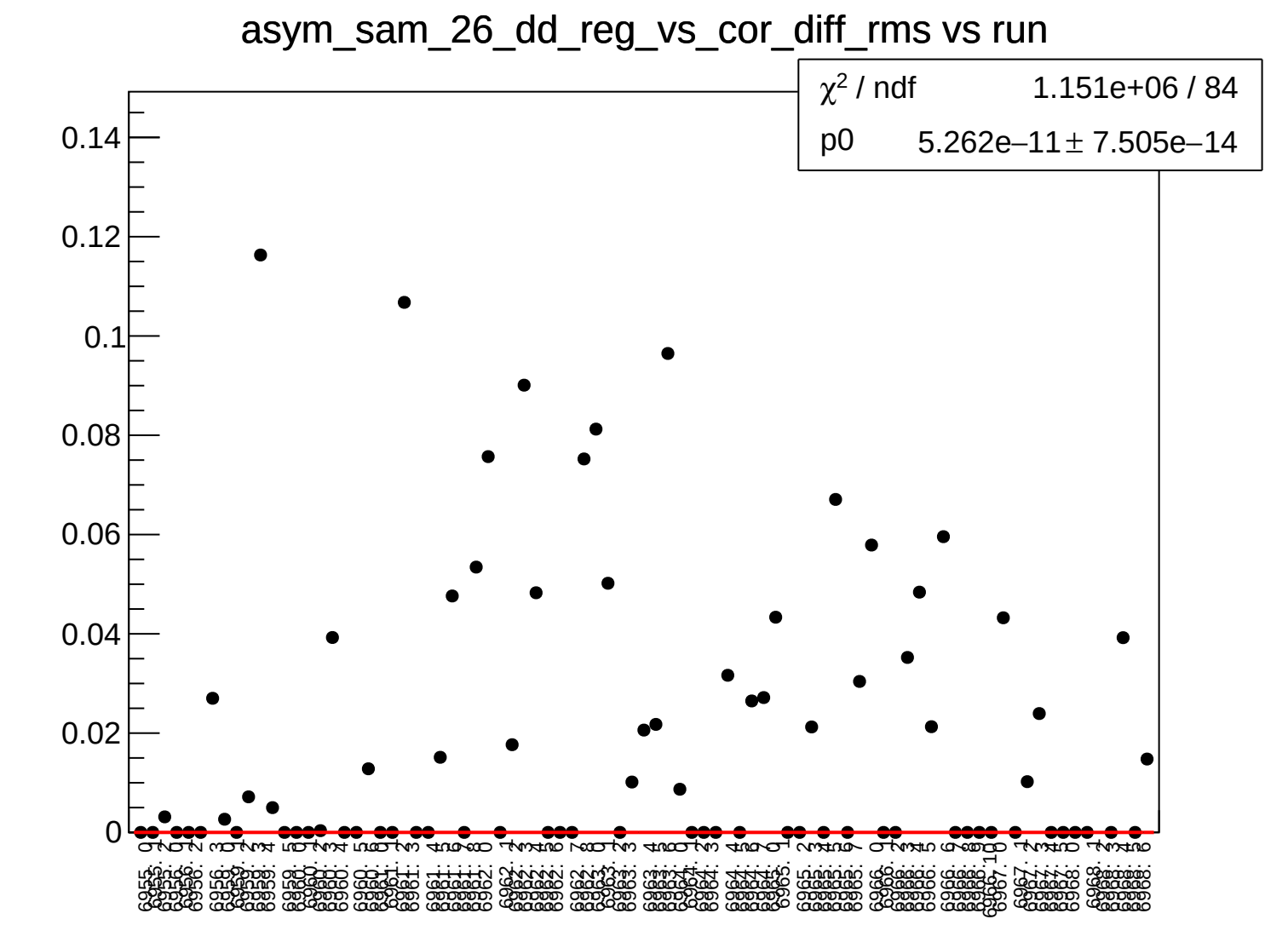

asym_sam_26_dd_mean vs run
χ² / ndf 101.9 / 84
p0 −346.3 ± 1947
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −306.4
Std Dev 0
3
2
1
0
−1
−2

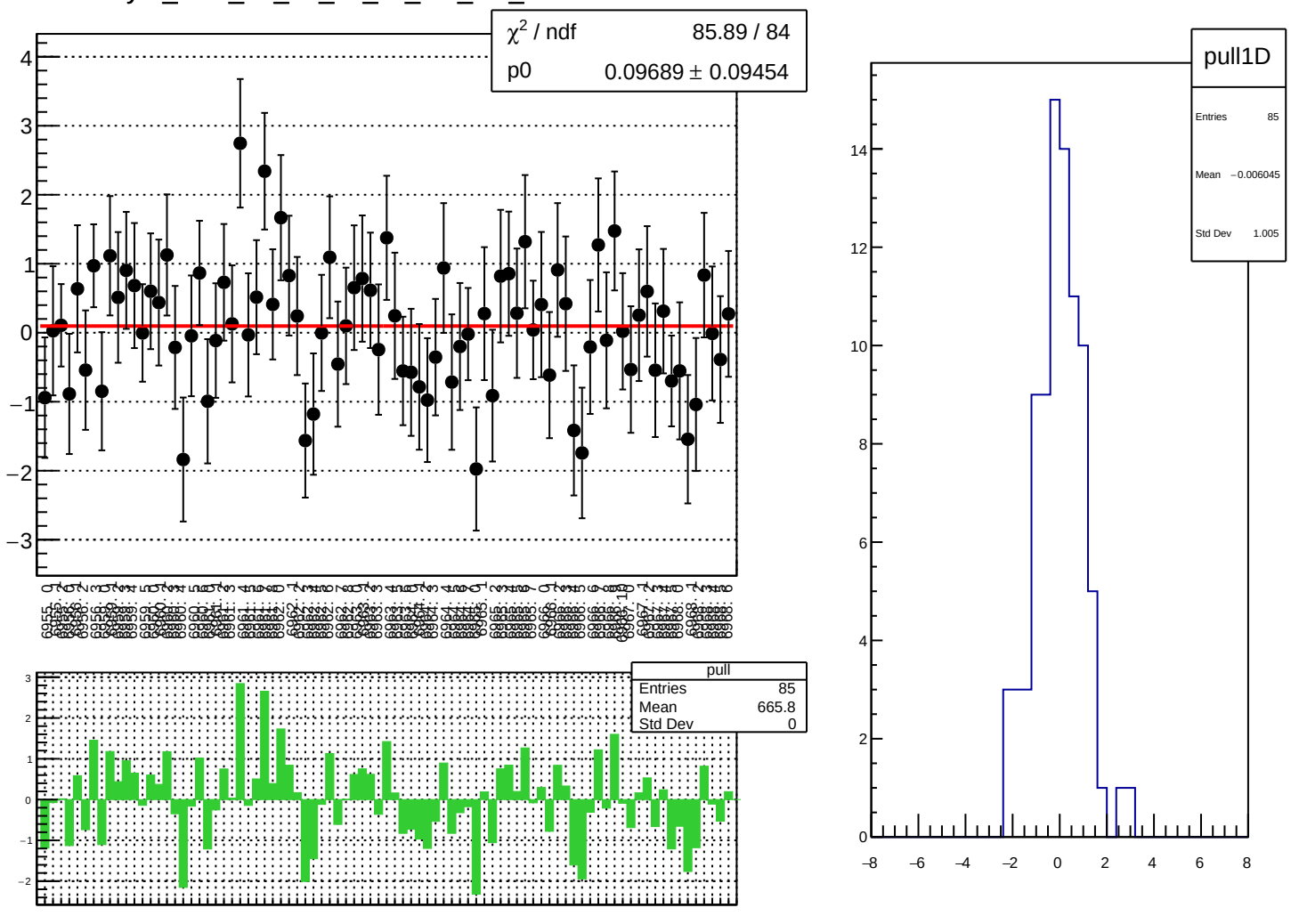

pull1D
Entries 85
Mean −0.006784
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

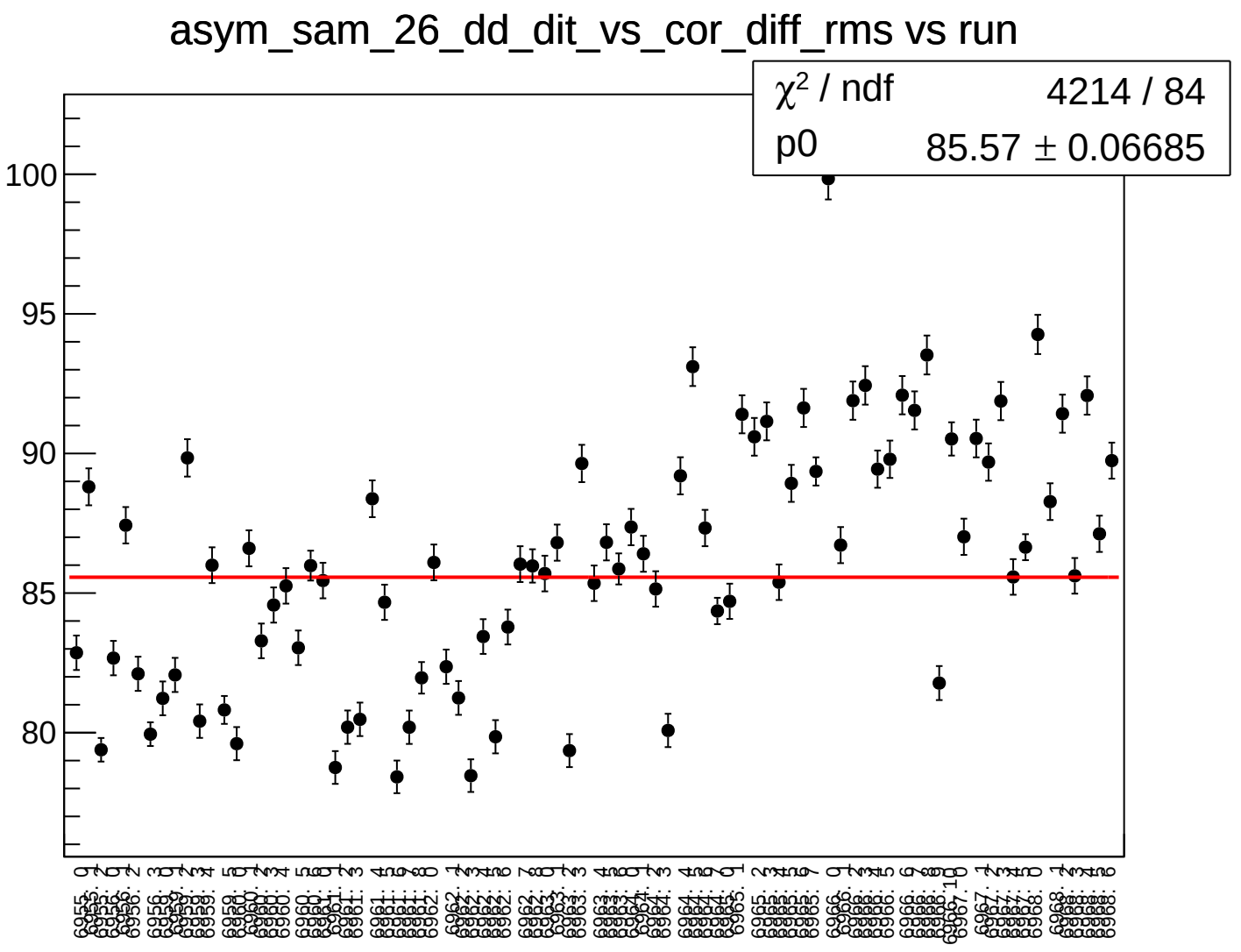

asym_sam_26_dd_rms vs run
$\chi^2$ / ndf 5395 / 84
p0 1762 ± 1.377
2300
2200
2100
2000
1900
1800
1700
1600

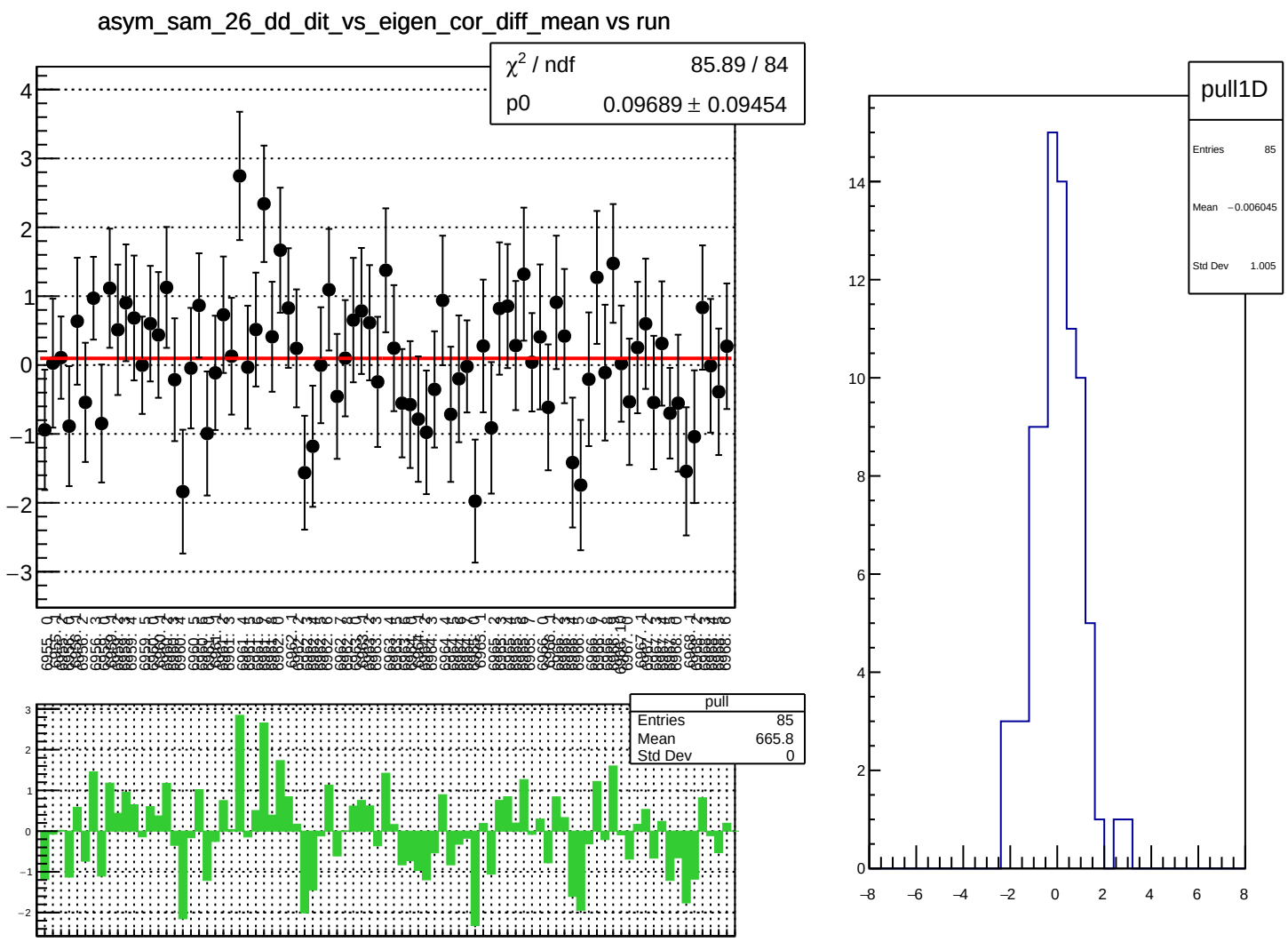

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 69.59 / 84
p0 −5.752e−14 ± 1.061e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 85
Mean 58.87
Std Dev 14.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

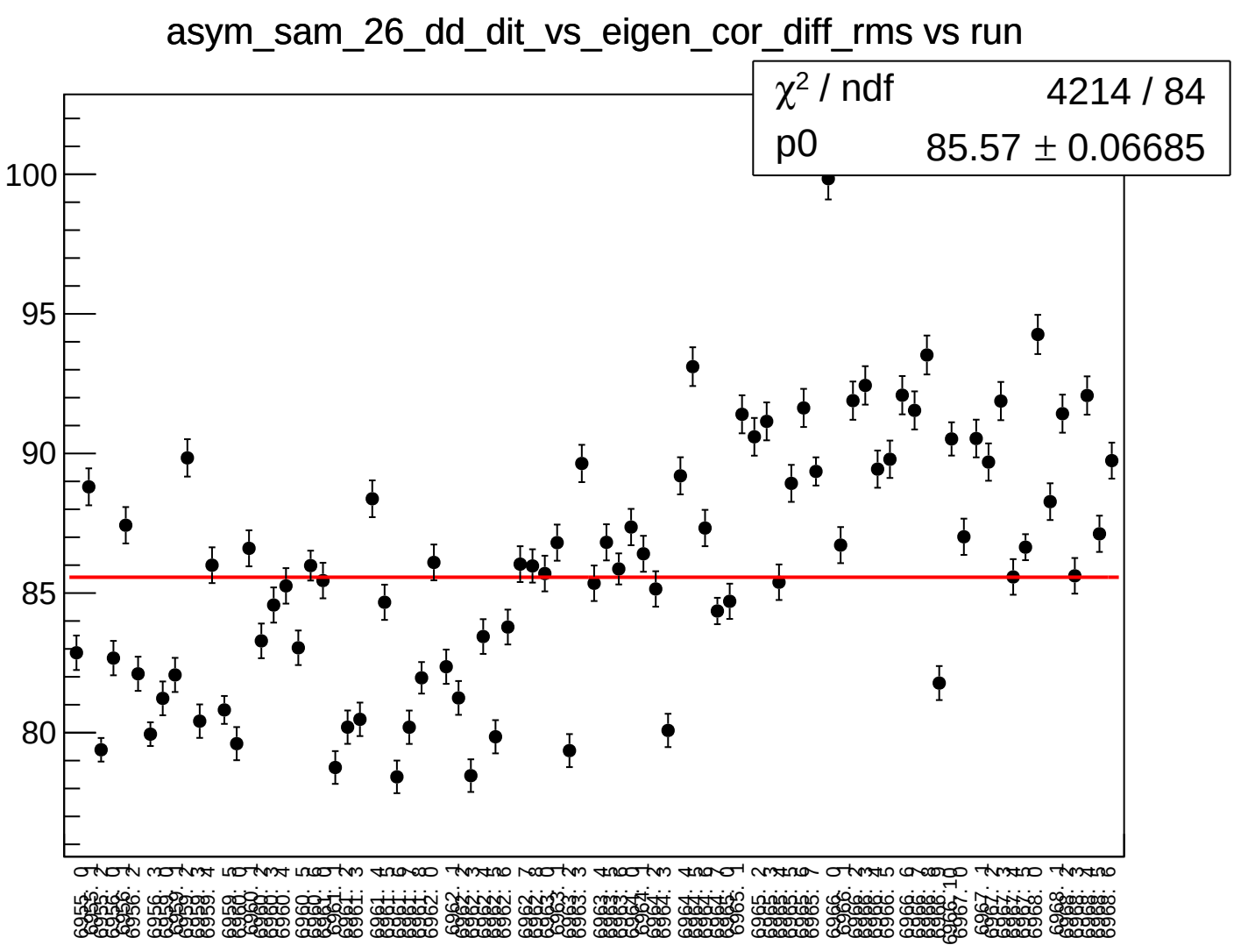

pull1D
Entries 85
Mean 0.07323
Std Dev 0.9019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

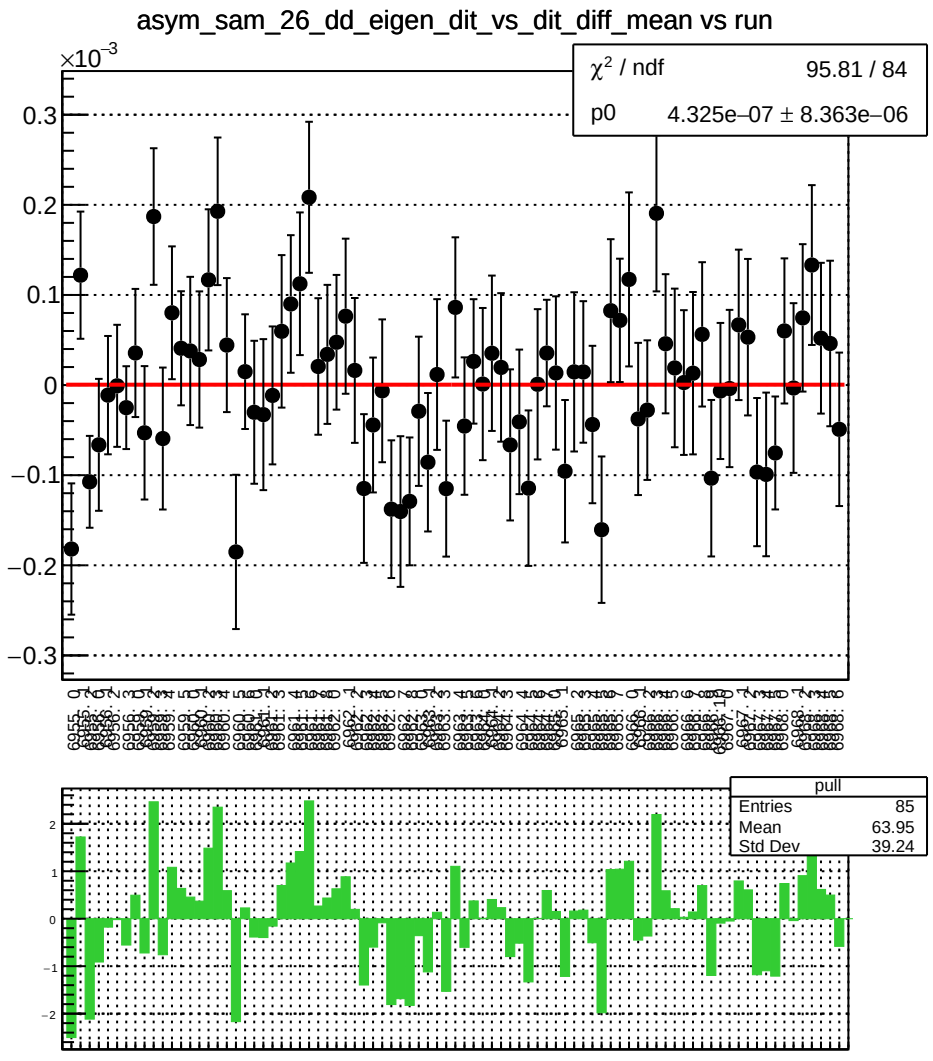

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.151e+06 / 84
p0 5.262e−11 ± 7.505e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

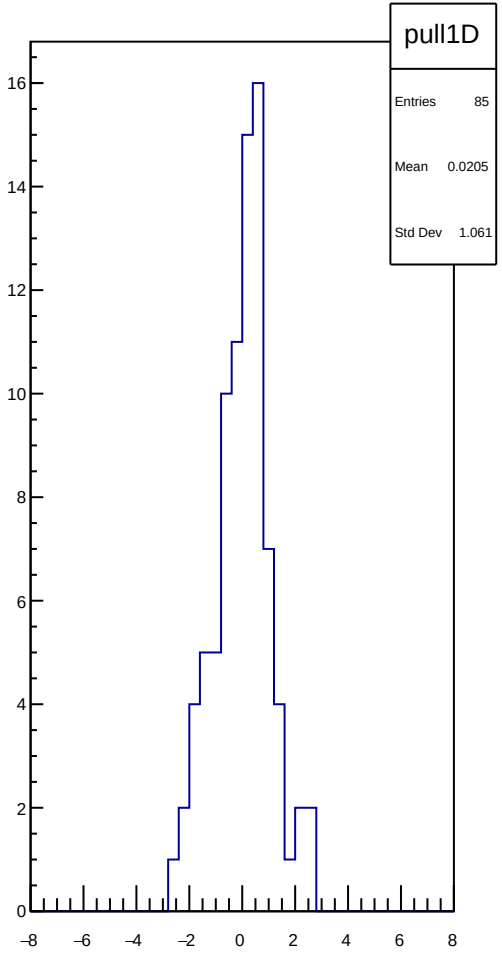

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.89 / 84
p0 0.09689 ± 0.09454
pull
Entries 85
Mean 665.8
Std Dev 0
pull1D
Entries 85
Mean −0.006045
Std Dev 1.005

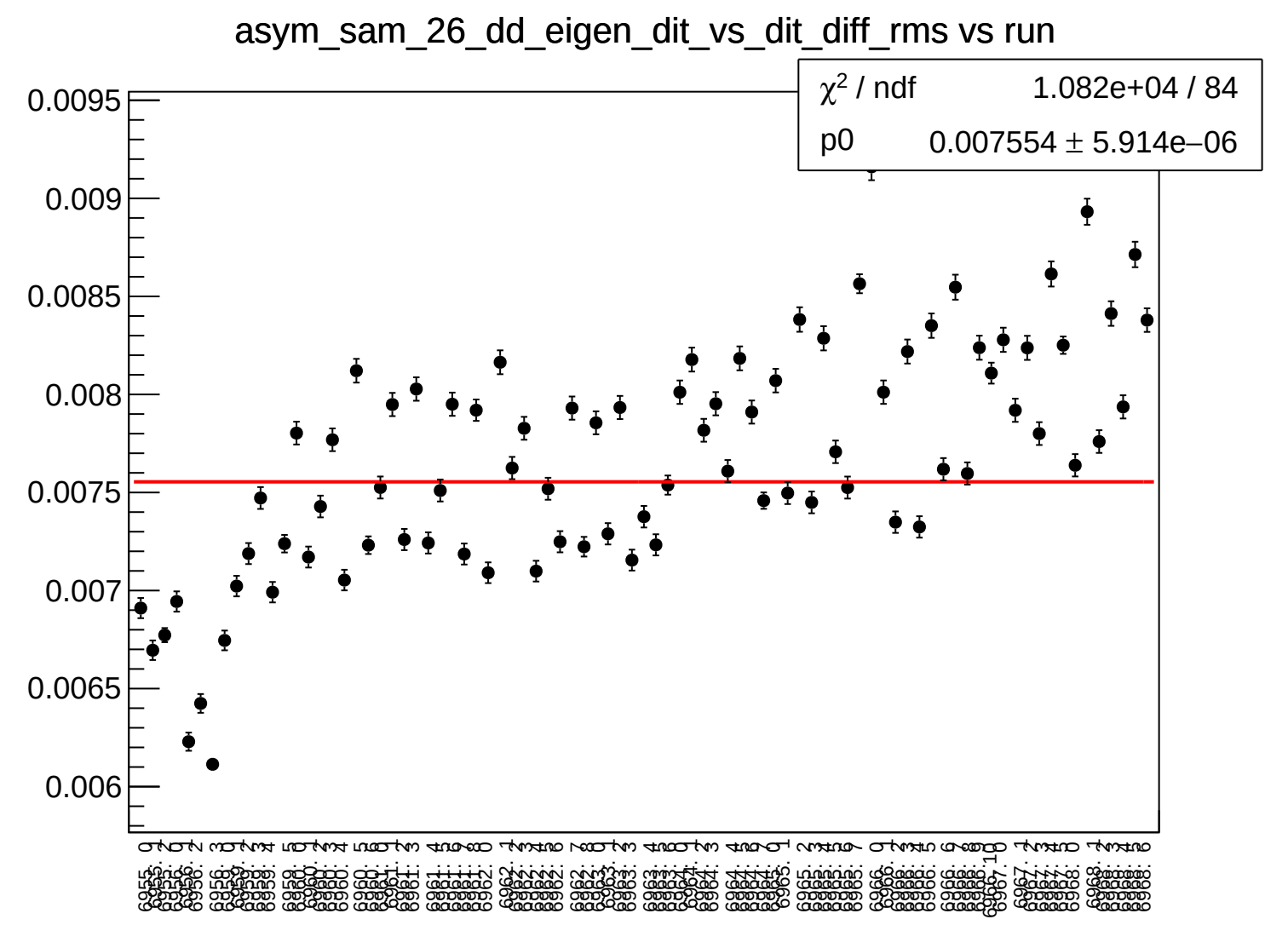

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4214 / 84
p0 85.57 ± 0.06685
100
95
90
85
80

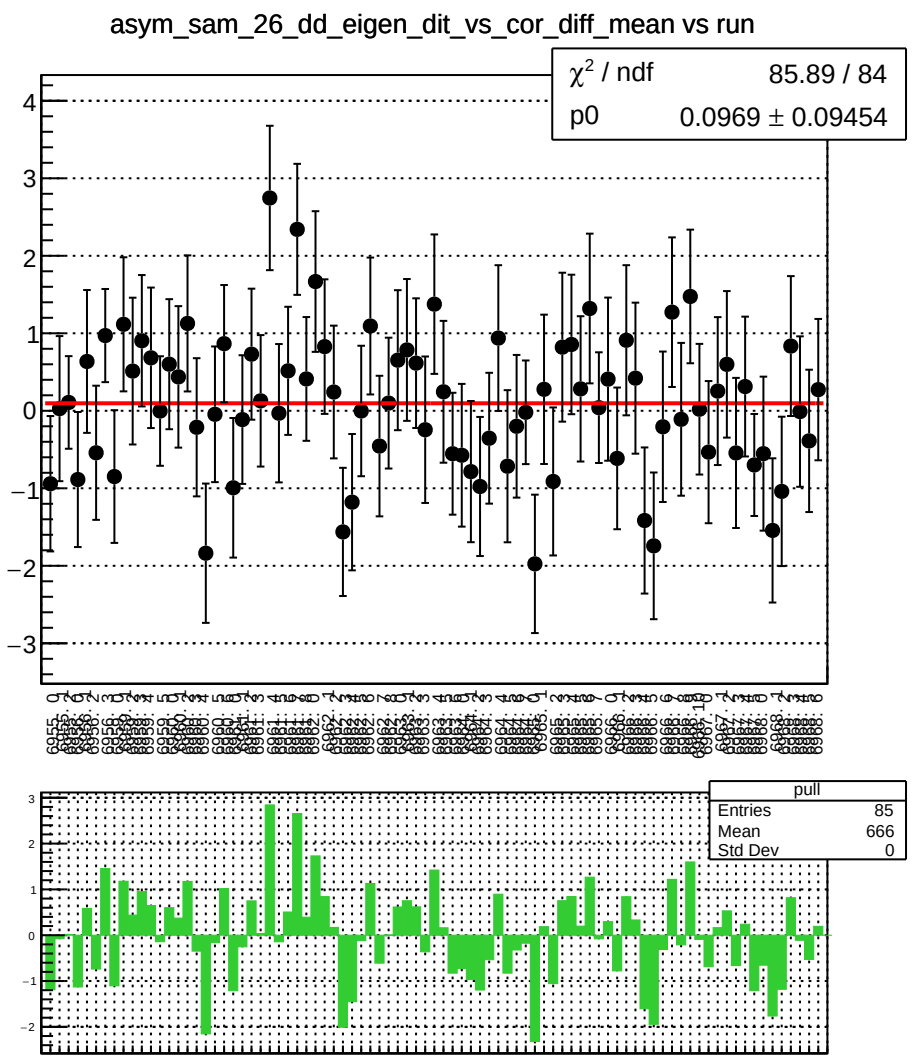

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.89 / 84
p0 0.09689 ± 0.09454
pull
Entries 85
Mean 665.8
Std Dev 0
pull1D
Entries 85
Mean −0.006045
Std Dev 1.005

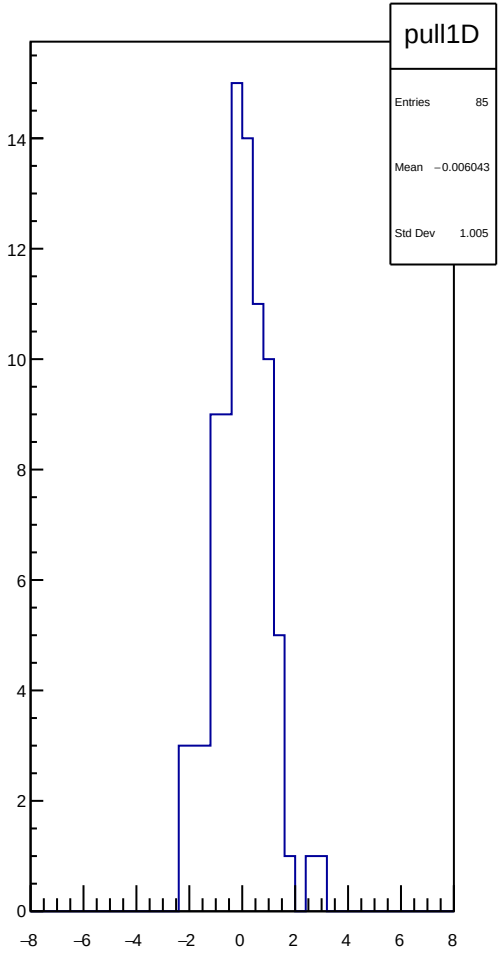

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4214 / 84
p0 85.57 ± 0.06685
100
95
90
85
80

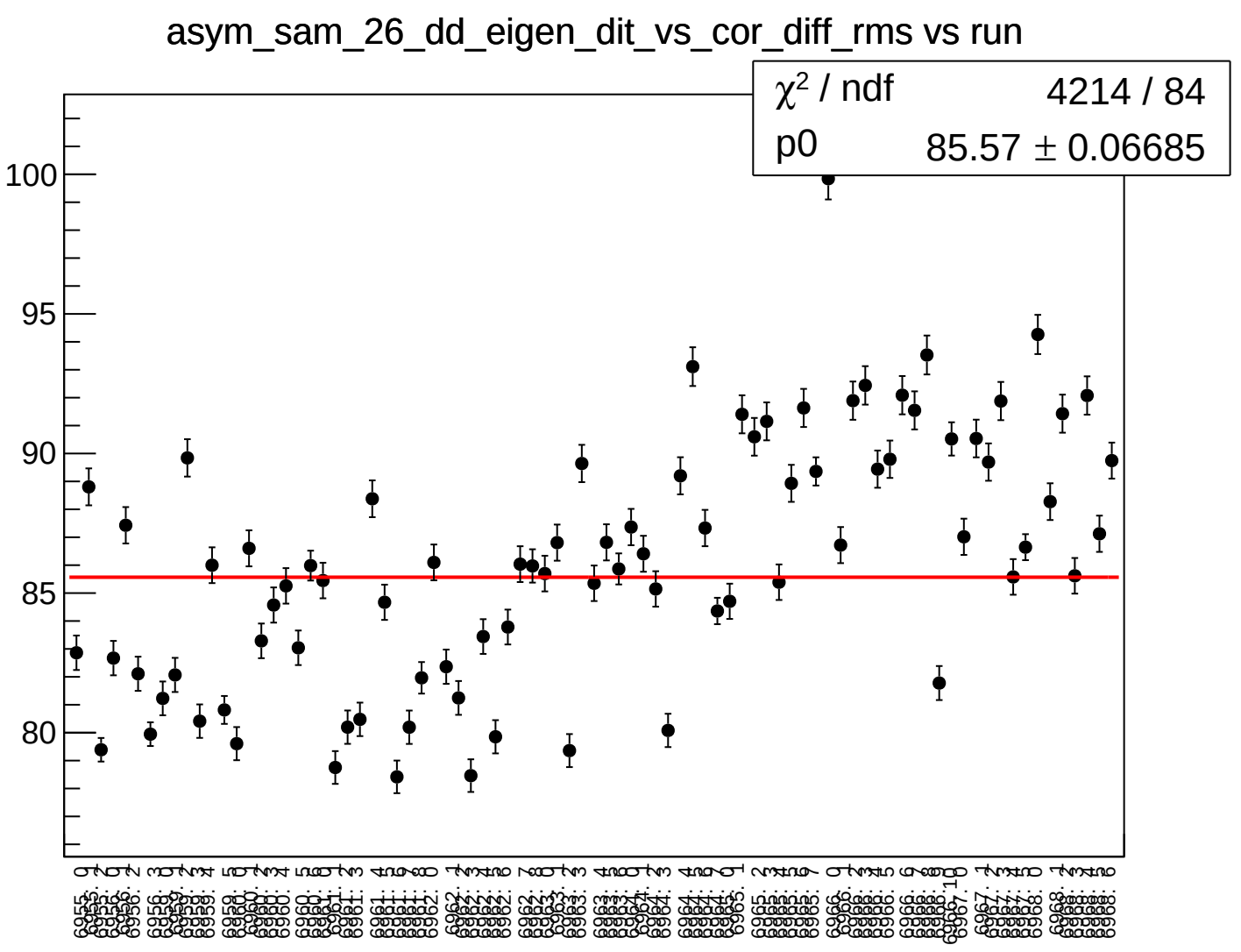

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 95.81 / 84
p0 4.325e−07 ± 8.363e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 85
Mean 63.95
Std Dev 39.24
2
1
0
−1
−2

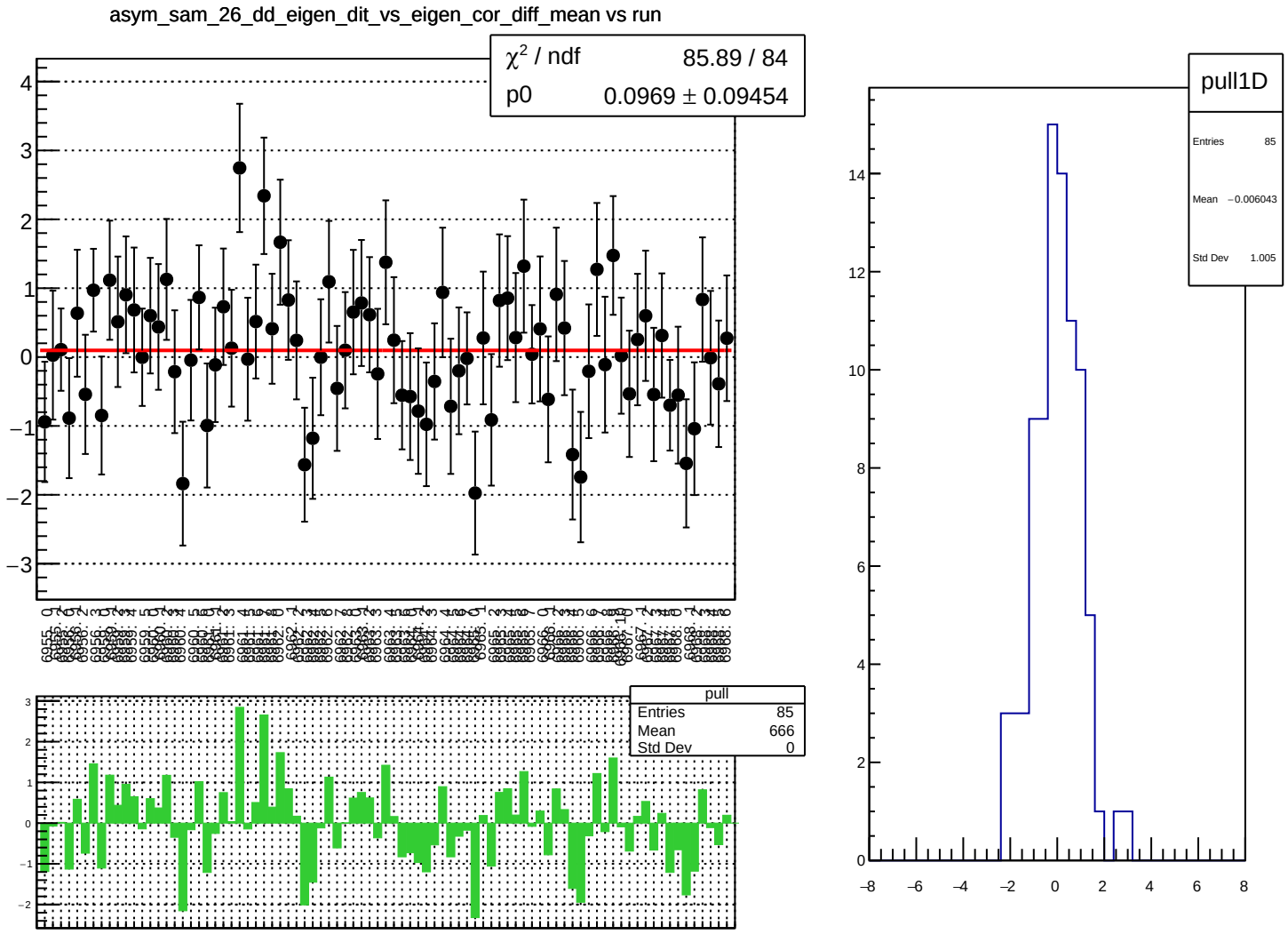

pull1D
Entries 85
Mean 0.0205
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

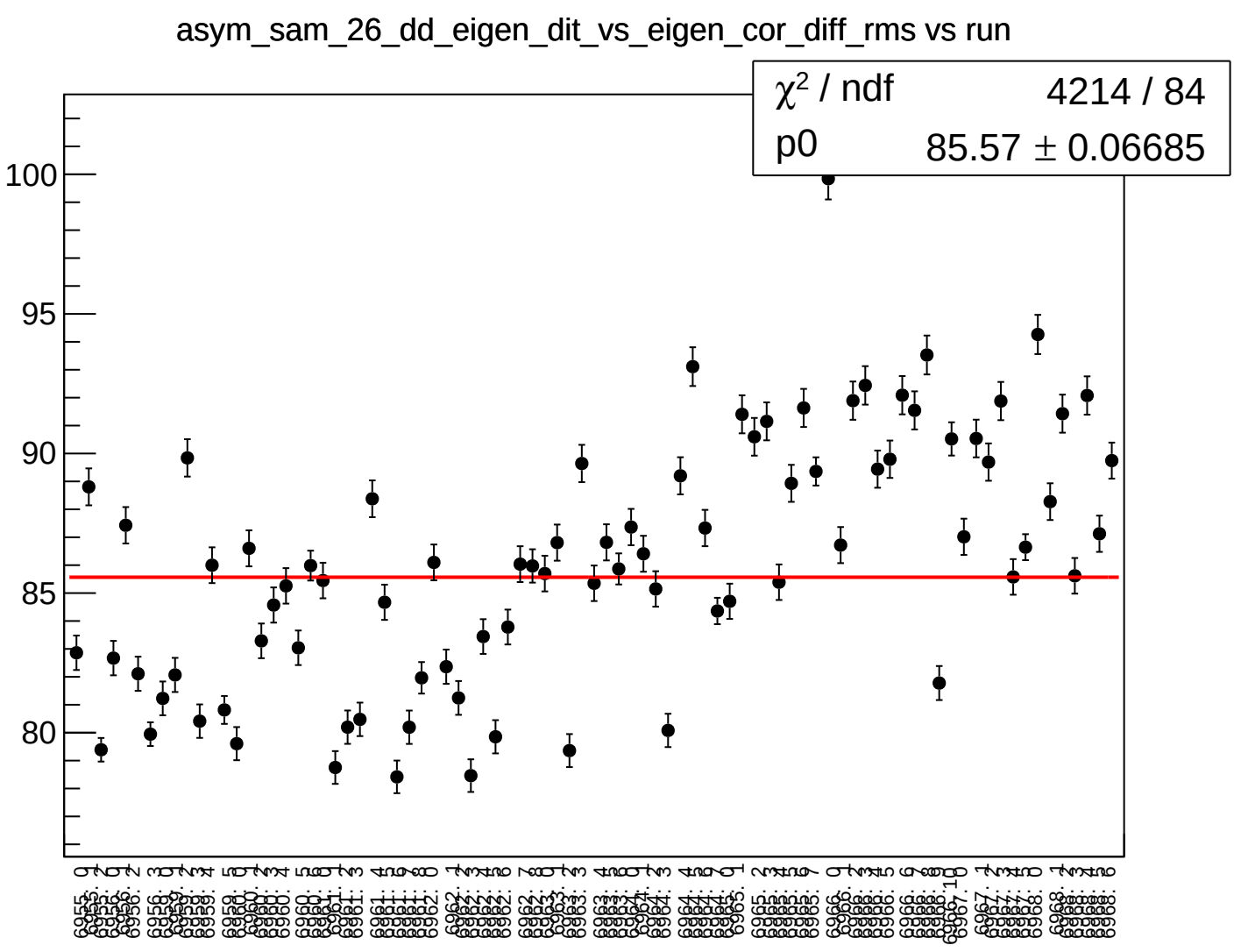

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.082e+04 / 84
p0 0.007554 ± 5.914e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

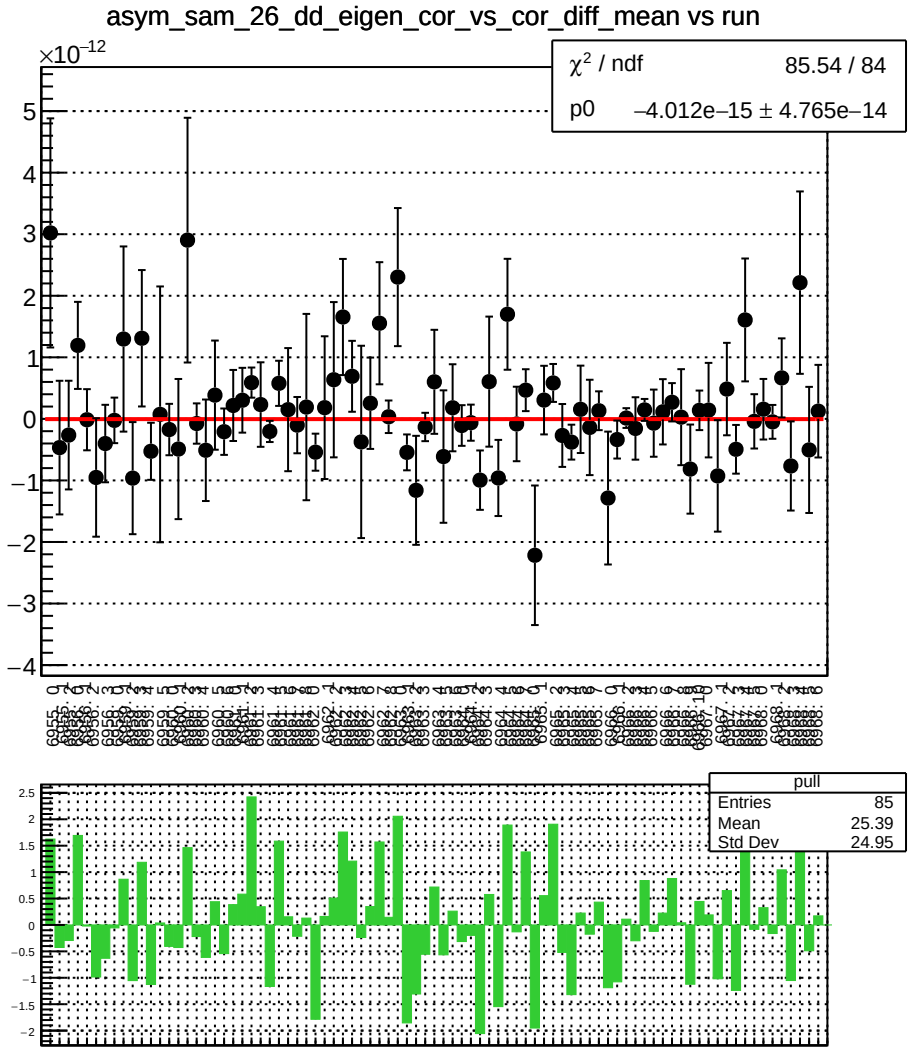

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.89 / 84
p0 0.0969 ± 0.09454
pull
Entries 85
Mean 666
Std Dev 0

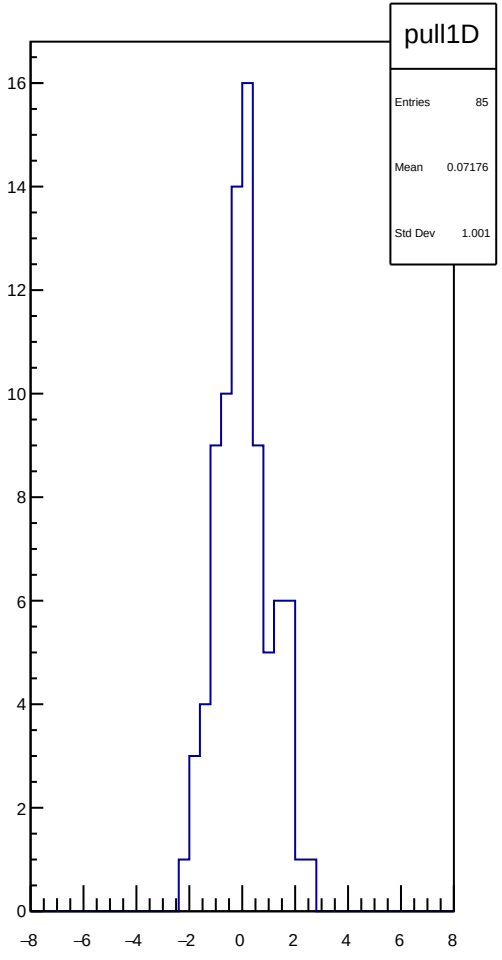

pull1D
Entries 85
Mean −0.006043
Std Dev 1.005

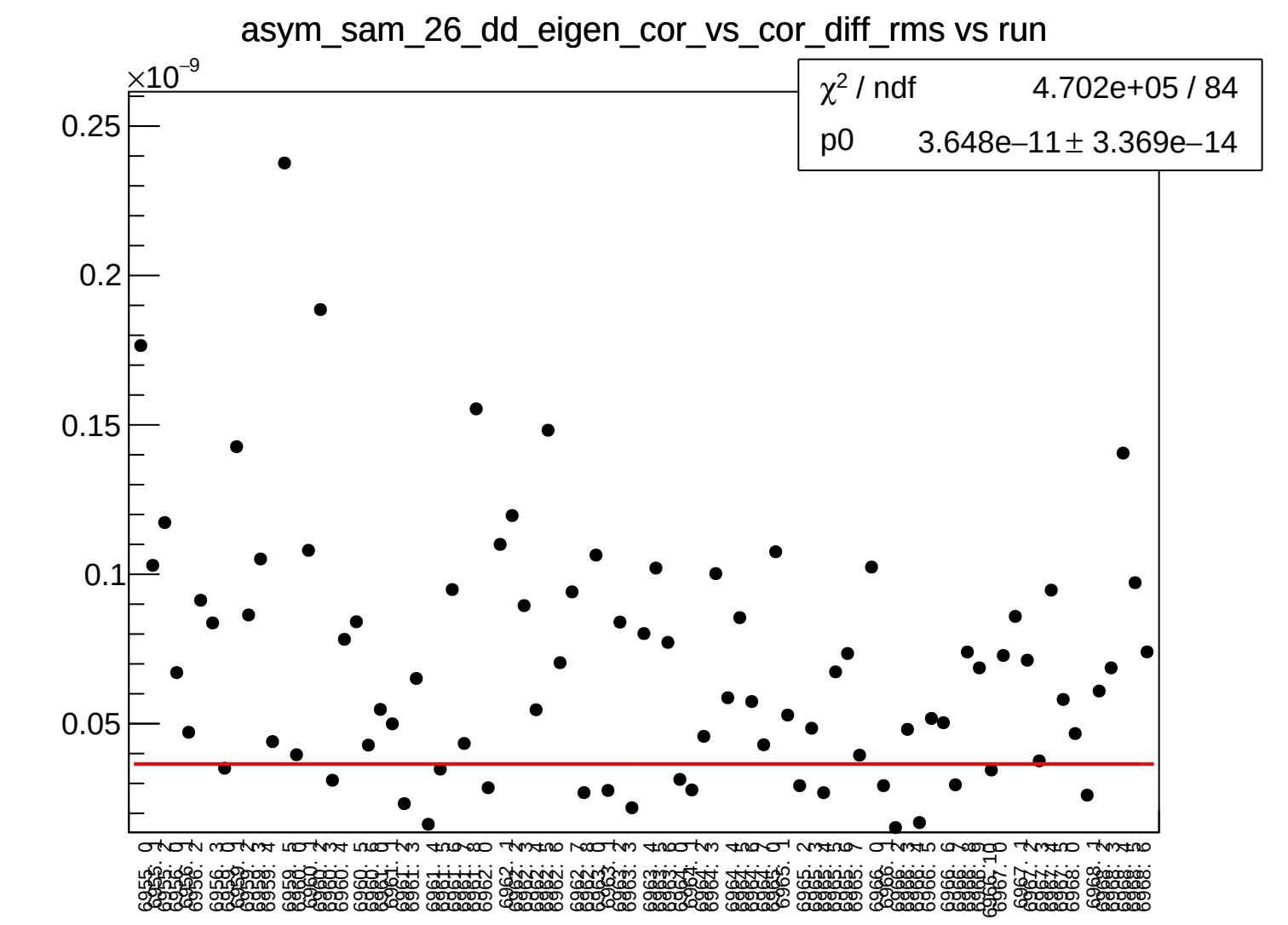

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4214 / 84
p0 85.57 ± 0.06685
100
95
90
85
80

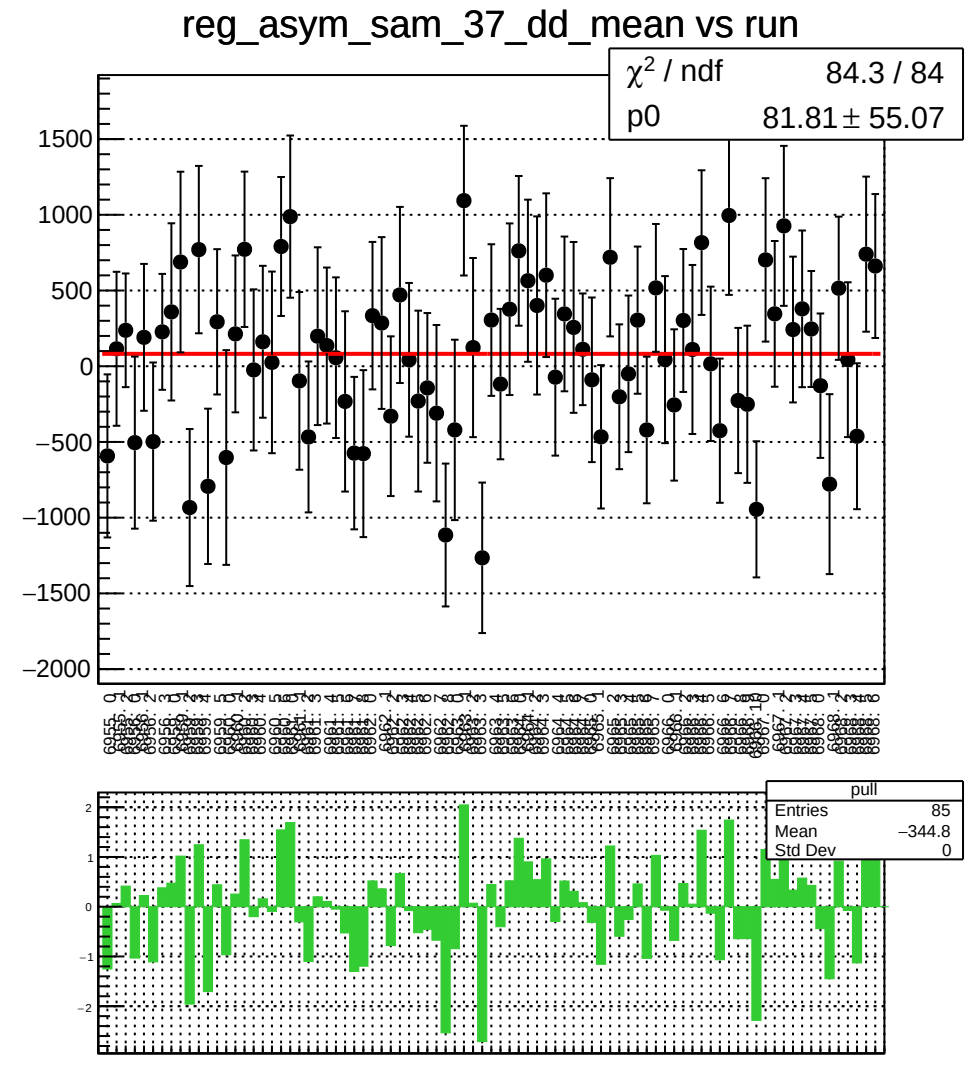

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.89 / 84
p0 0.0969 ± 0.09454
pull
Entries 85
Mean 666
Std Dev 0
pull1D
Entries 85
Mean −0.006043
Std Dev 1.005

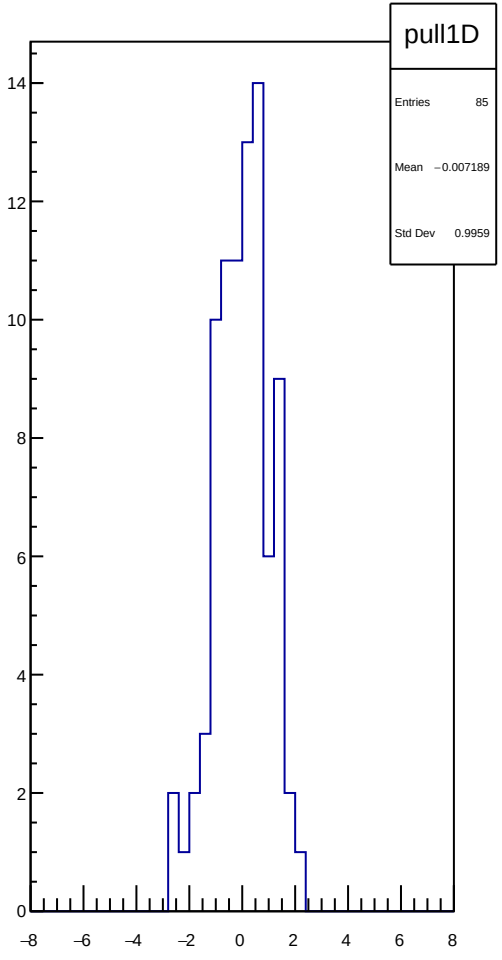

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4214 / 84
p0 85.57 ± 0.06685
100
95
90
85
80

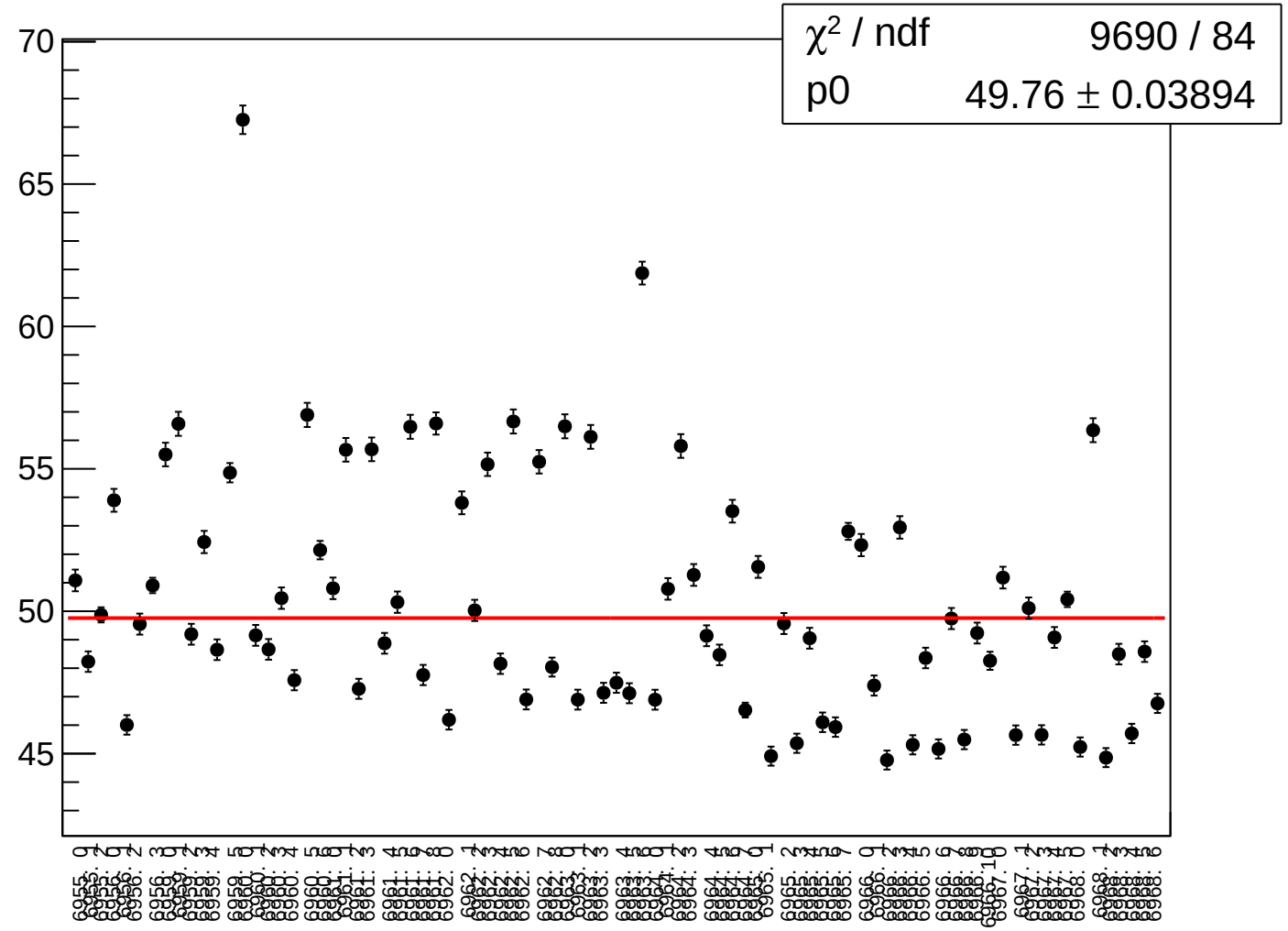

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.54 / 84
p0 −4.012e−15 ± 4.765e−14
pull
Entries 85
Mean 25.39
Std Dev 24.95

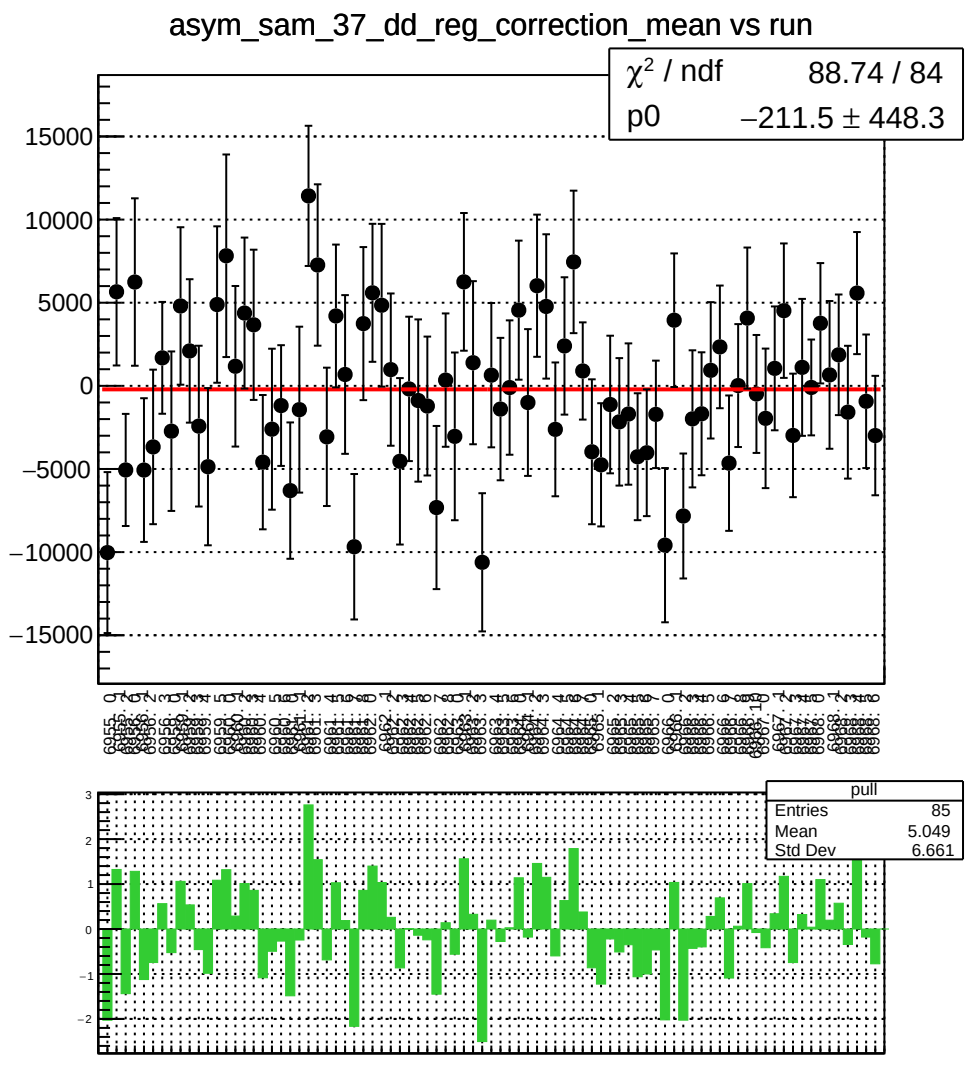

pull1D
Entries 85
Mean 0.07176
Std Dev 1.001

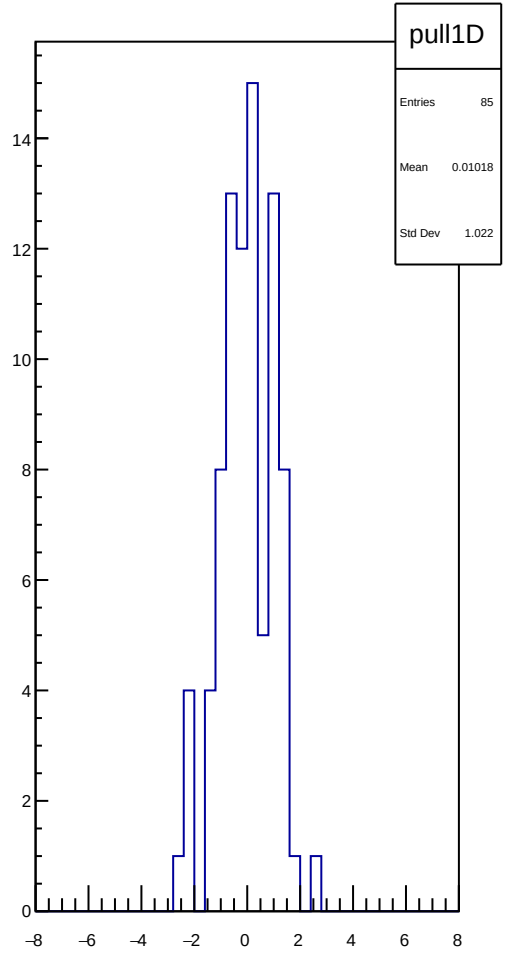

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.702e+05 / 84
p0 3.648e−11 ± 3.369e−14
0.25
0.2
0.15
0.1
0.05

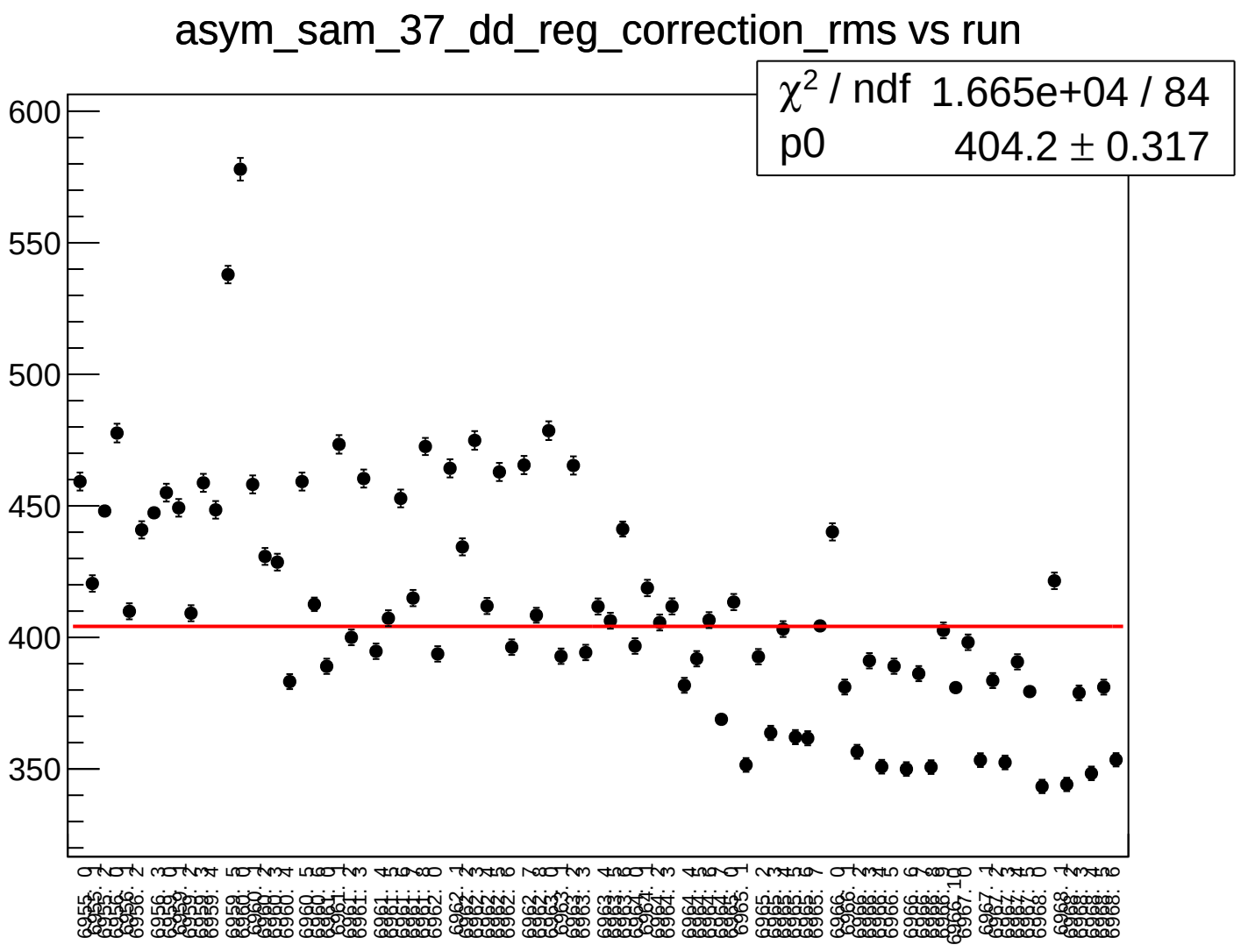

reg_asym_sam_37_dd_mean vs run
χ² / ndf 84.3 / 84
p0 81.81 ± 55.07
pull
Entries 85
Mean −344.8
Std Dev 0

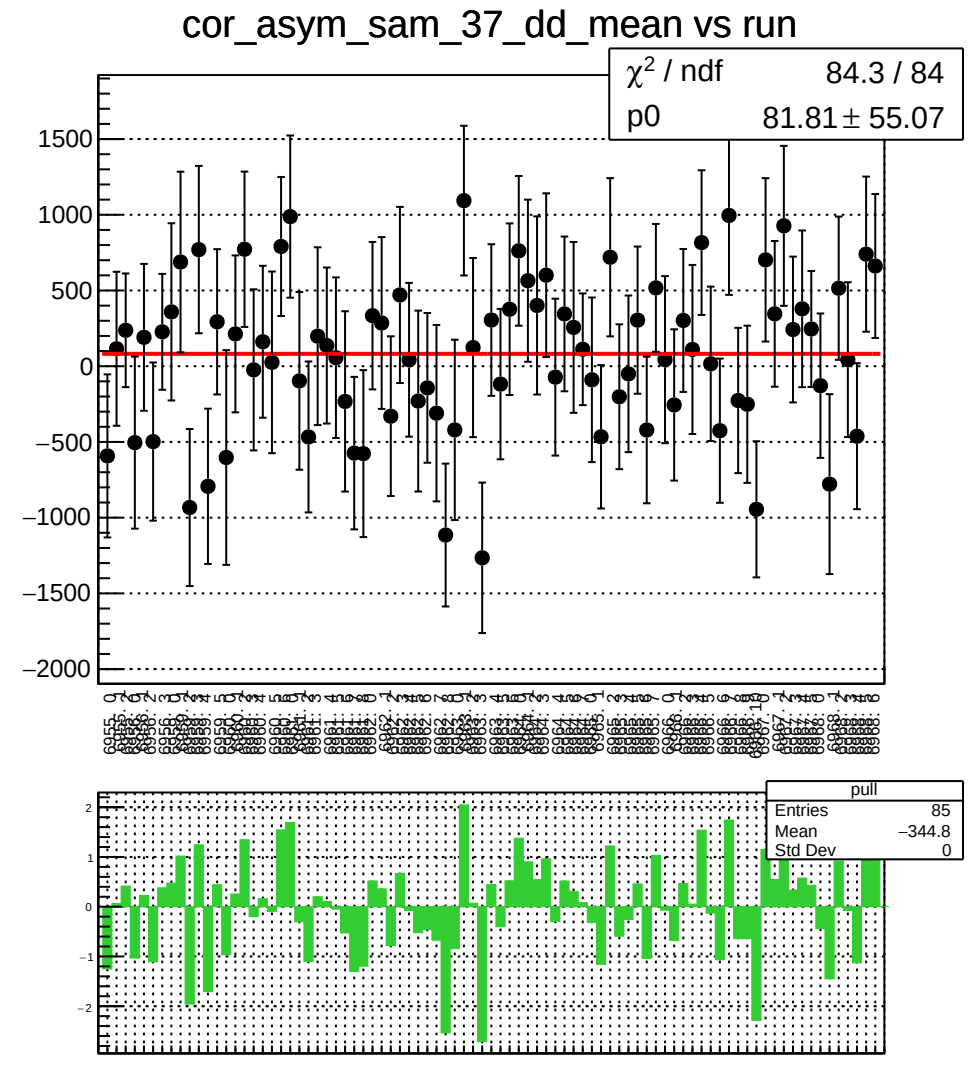

pull1D
Entries 85
Mean −0.007189
Std Dev 0.9959

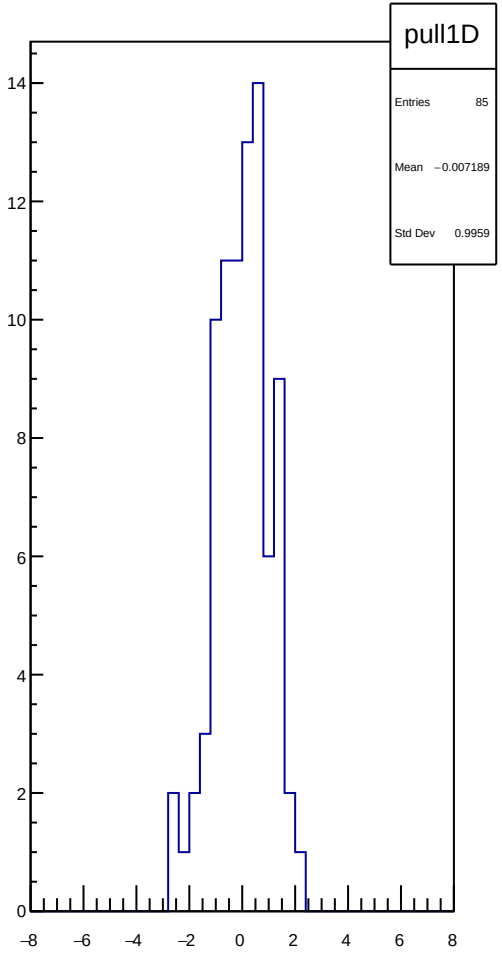

reg_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 9690 / 84
p0 49.76 ± 0.03894
70
65
60
55
50
45

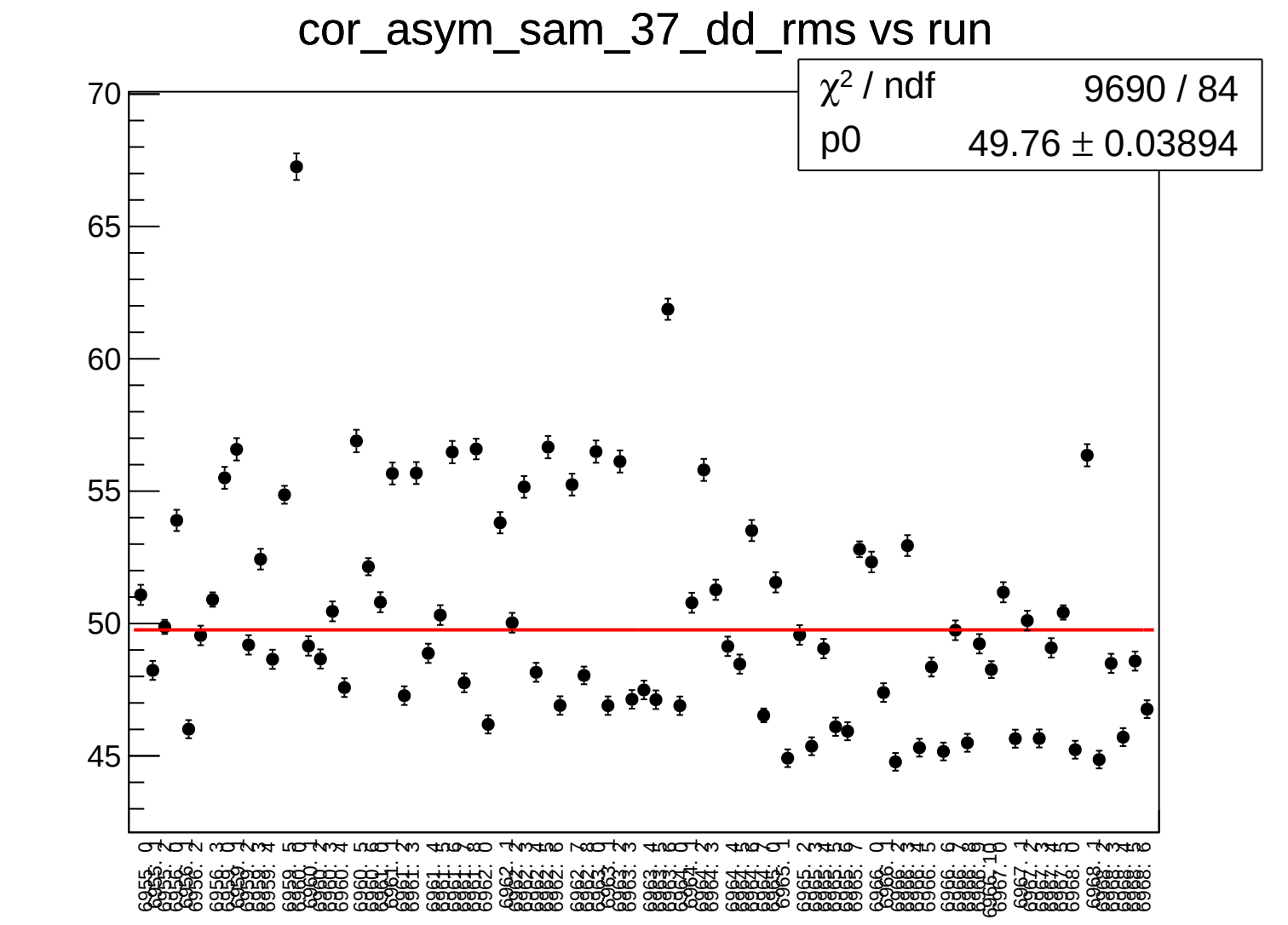

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 88.74 / 84
p0 −211.5 ± 448.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 5.049
Std Dev 6.661
3
2
1
0
−1
−2

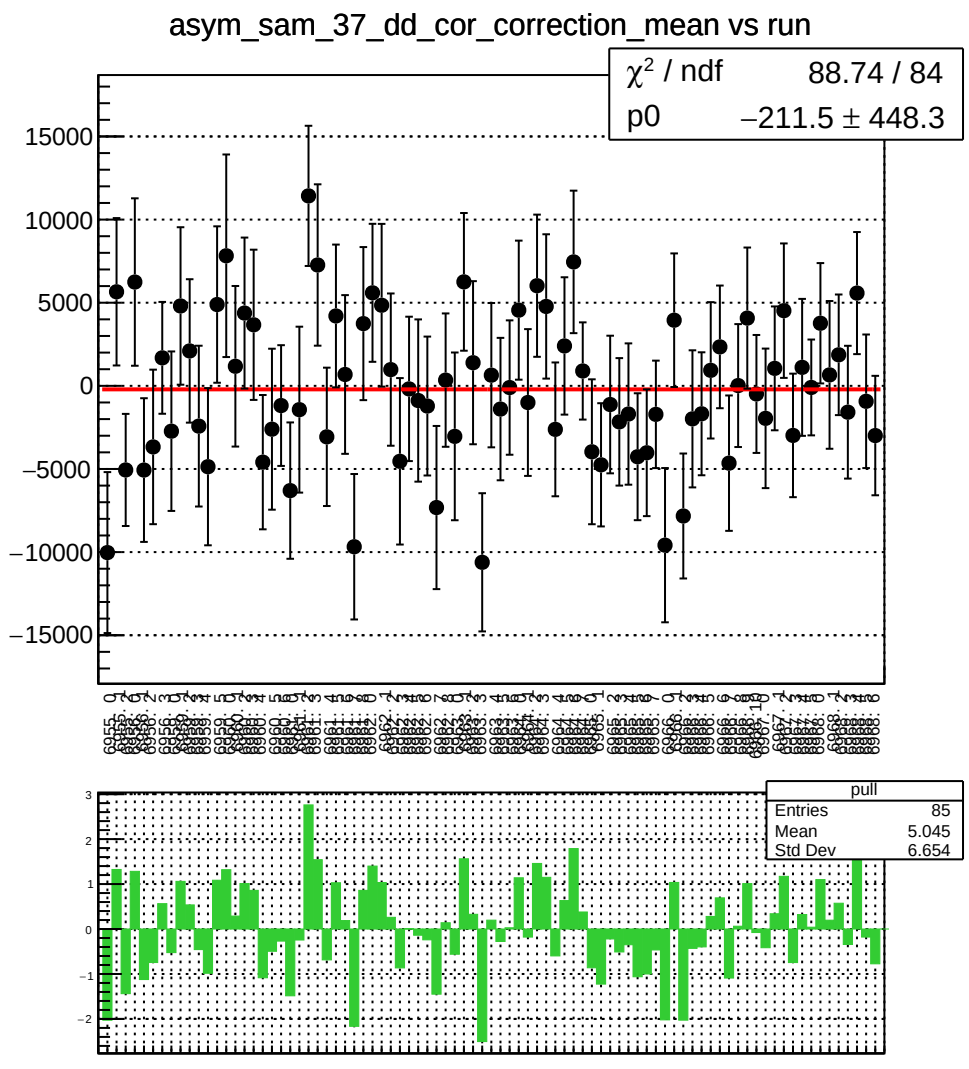

pull1D
Entries 85
Mean 0.01018
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

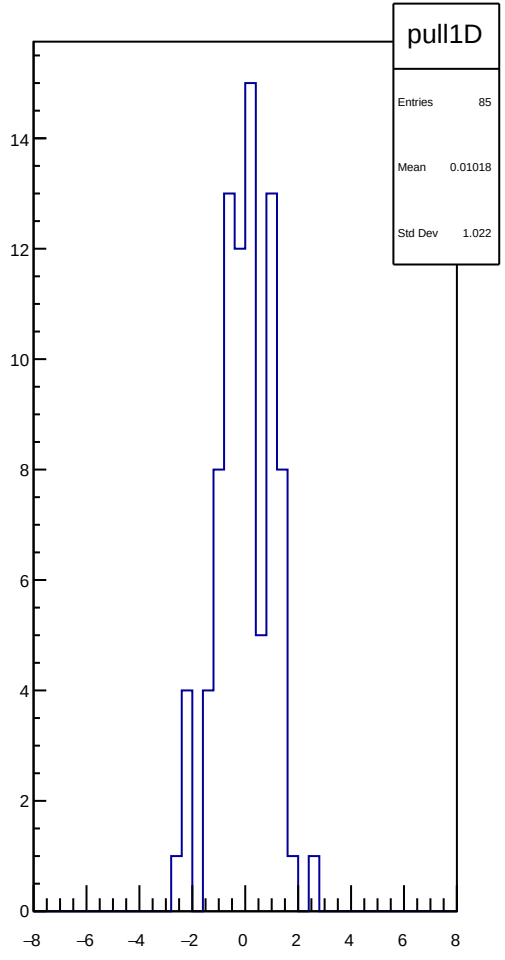

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.665e+04 / 84
p0 404.2 ± 0.317
600
550
500
450
400
350

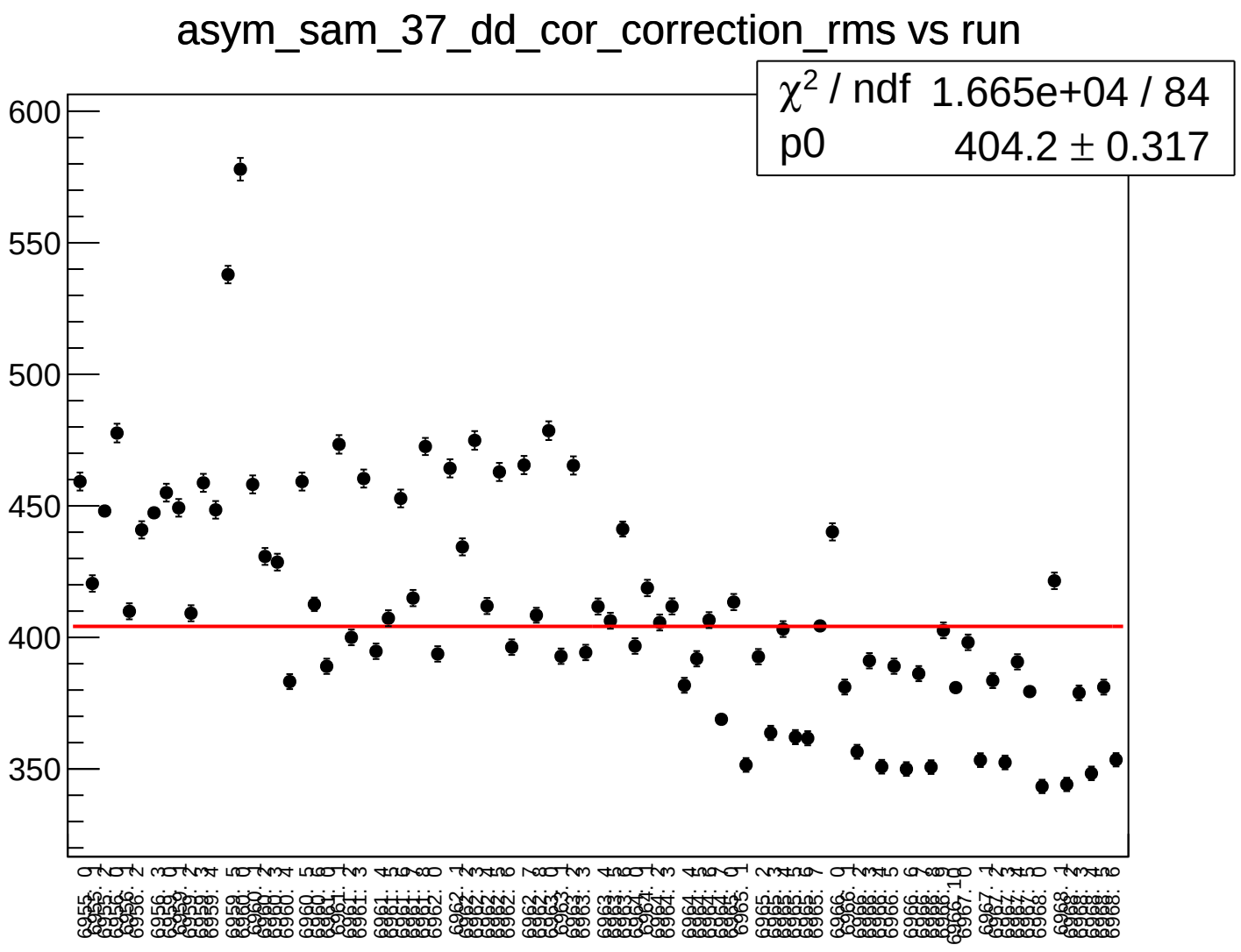

cor_asym_sam_37_dd_mean vs run
χ² / ndf 84.3 / 84
p0 81.81 ± 55.07
pull
Entries 85
Mean −344.8
Std Dev 0

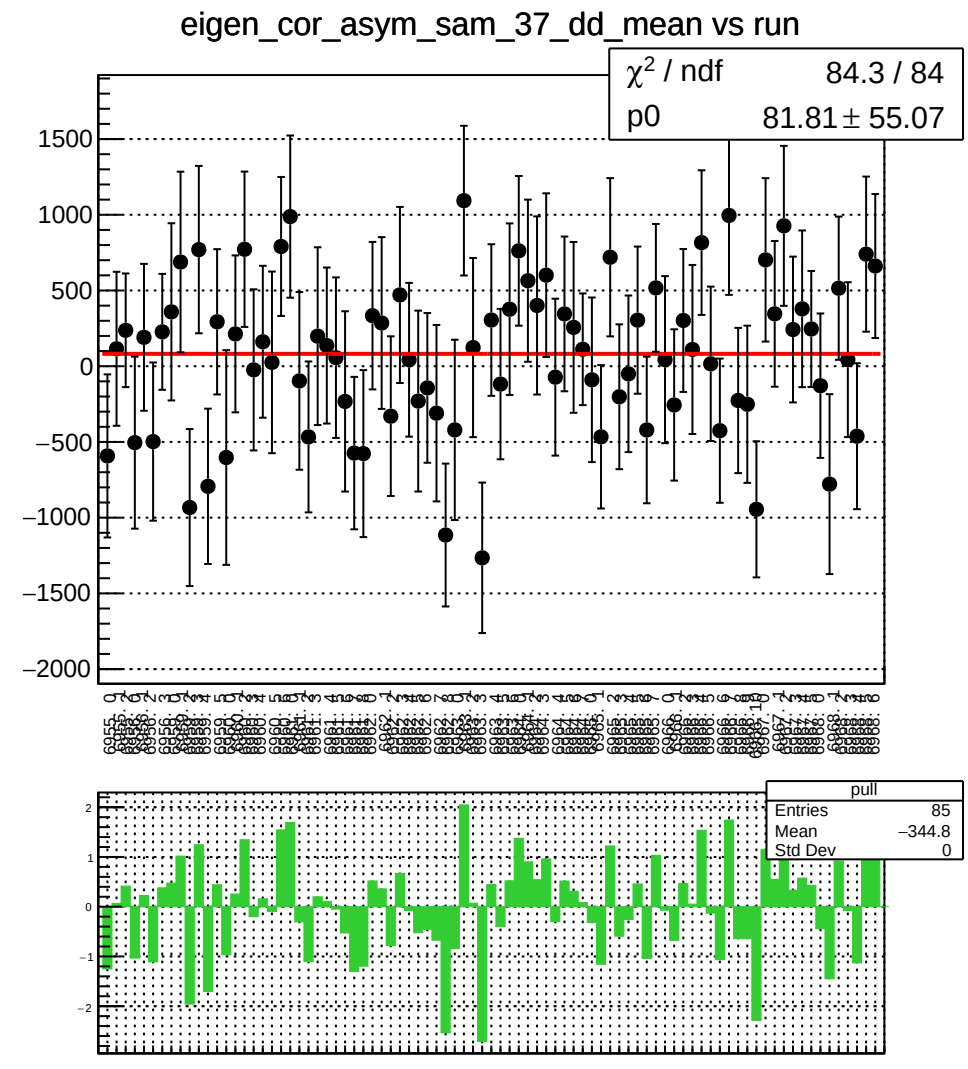

pull1D
Entries 85
Mean −0.007189
Std Dev 0.9959

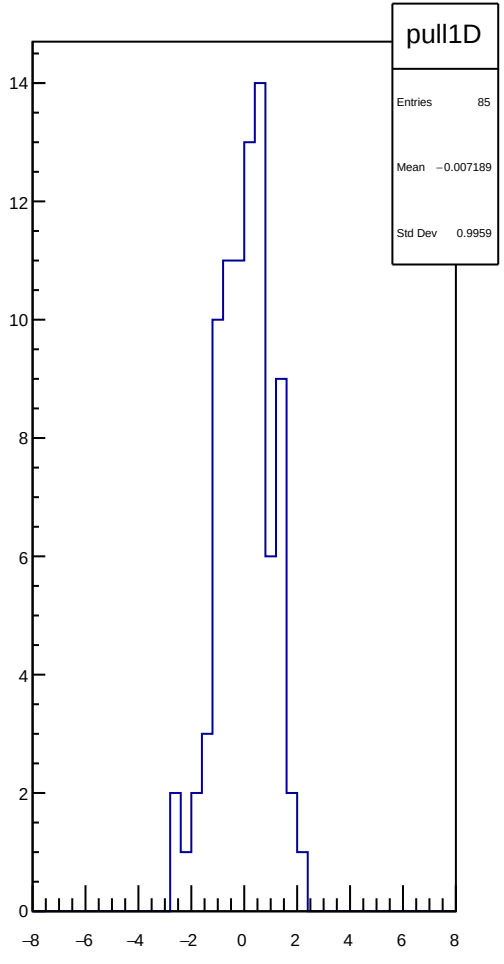

cor_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 9690 / 84
p0 49.76 ± 0.03894
70
65
60
55
50
45

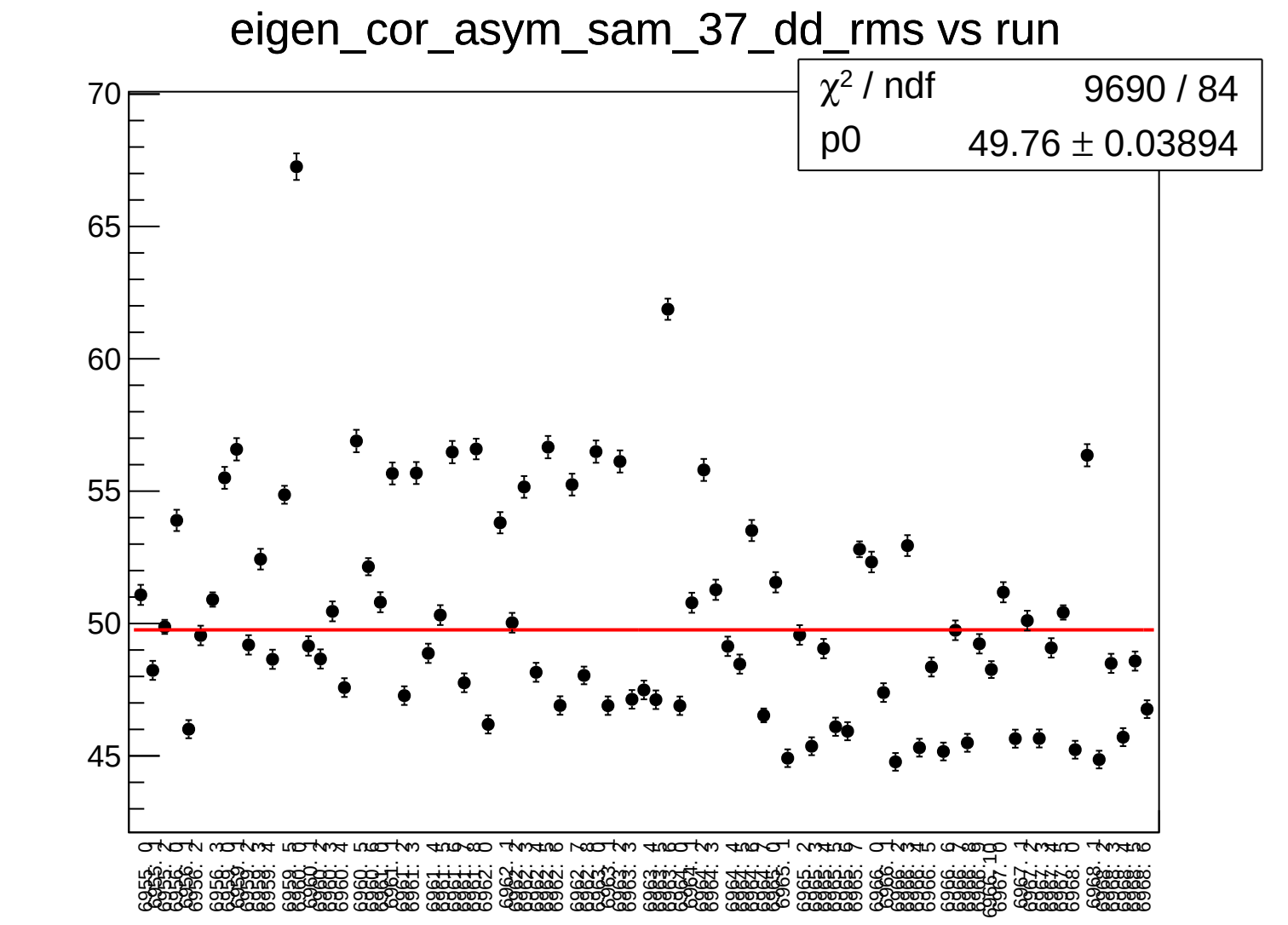

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 88.74 / 84
p0 −211.5 ± 448.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 5.045
Std Dev 6.654
3
2
1
0
−1
−2

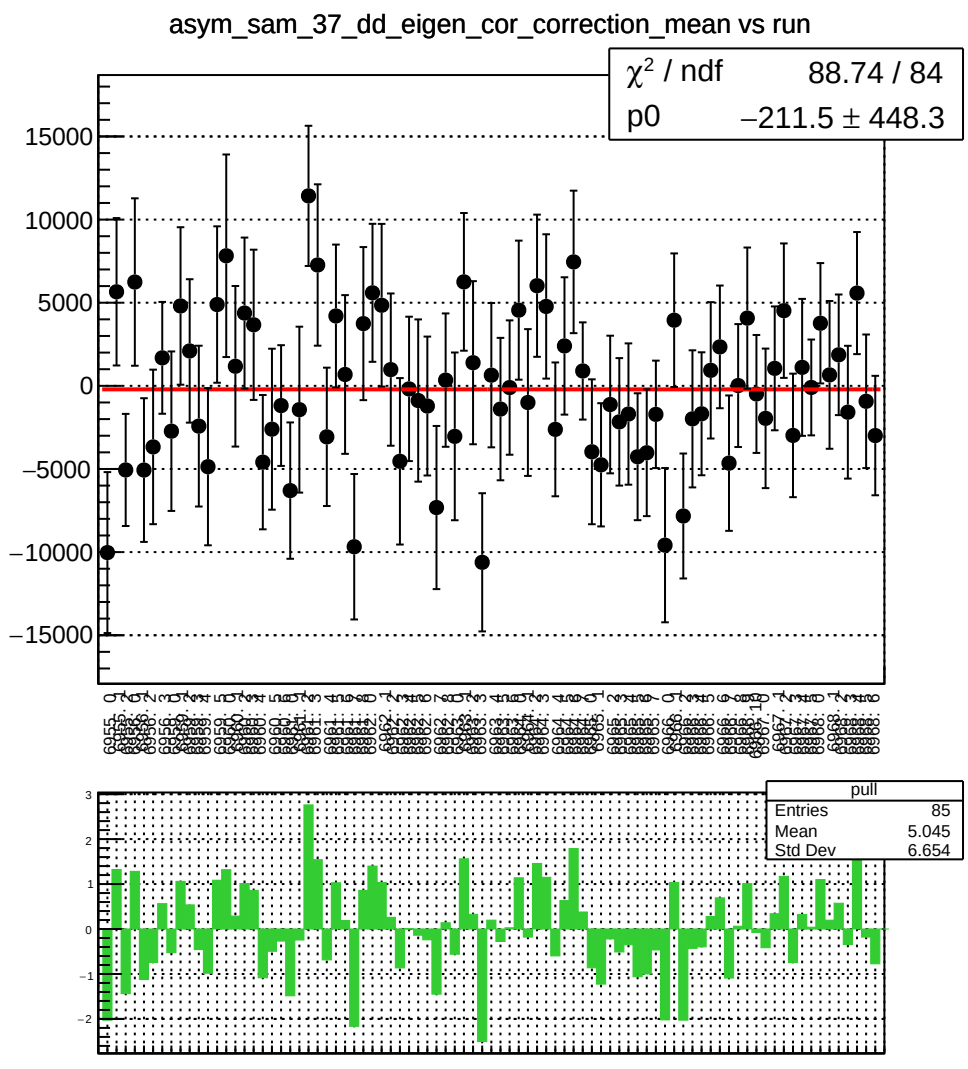

pull1D
Entries 85
Mean 0.01018
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

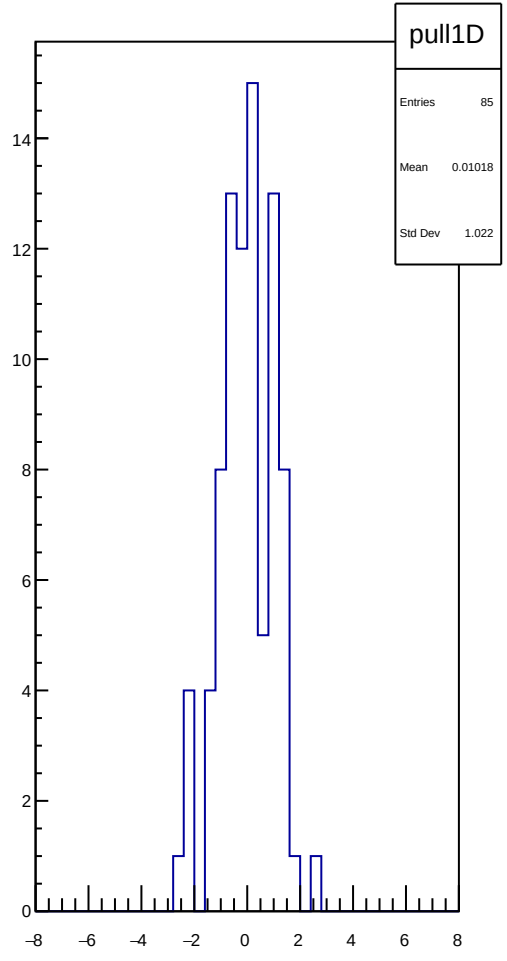

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.665e+04 / 84
p0 404.2 ± 0.317
600
550
500
450
400
350

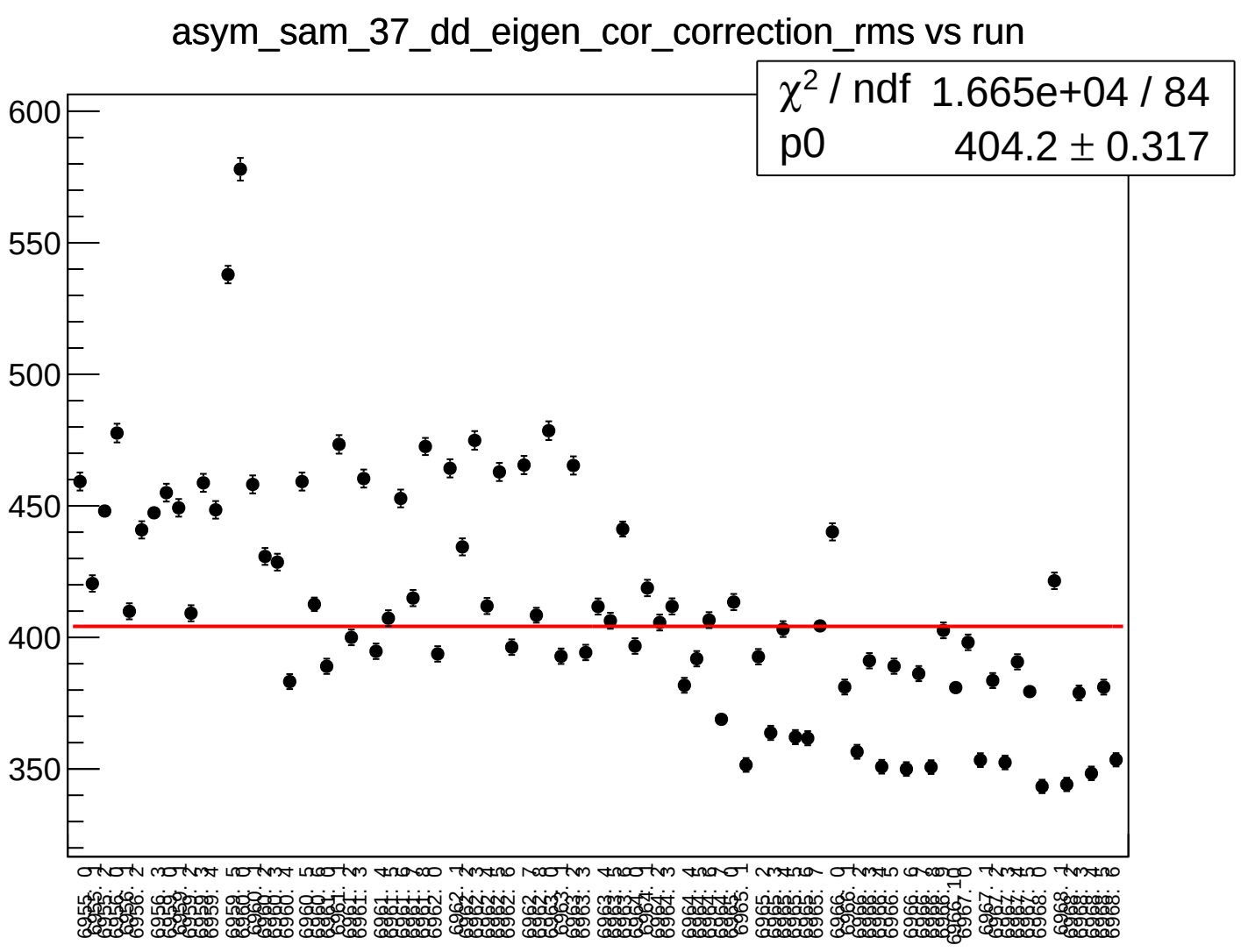

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 84.3 / 84
p0 81.81 ± 55.07
pull
Entries 85
Mean −344.8
Std Dev 0

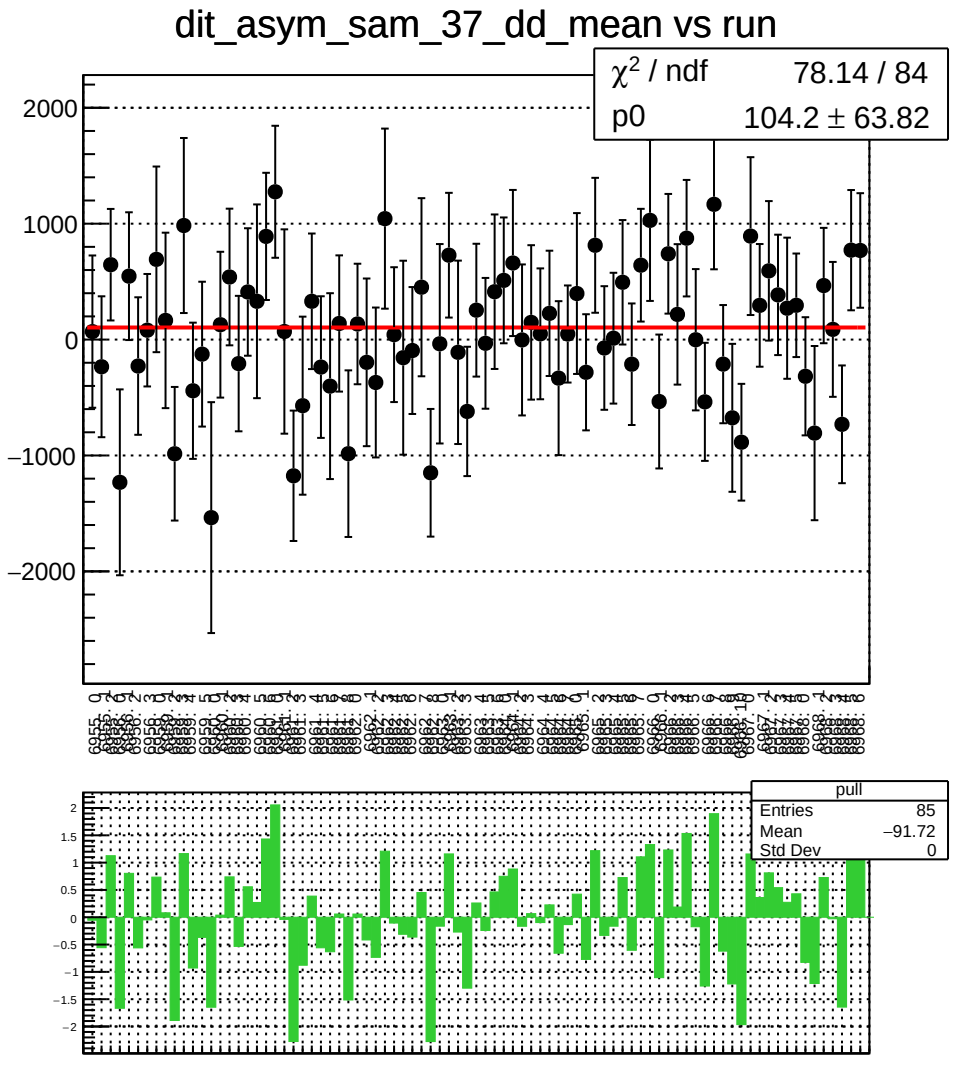

pull1D
Entries 85
Mean −0.007189
Std Dev 0.9959

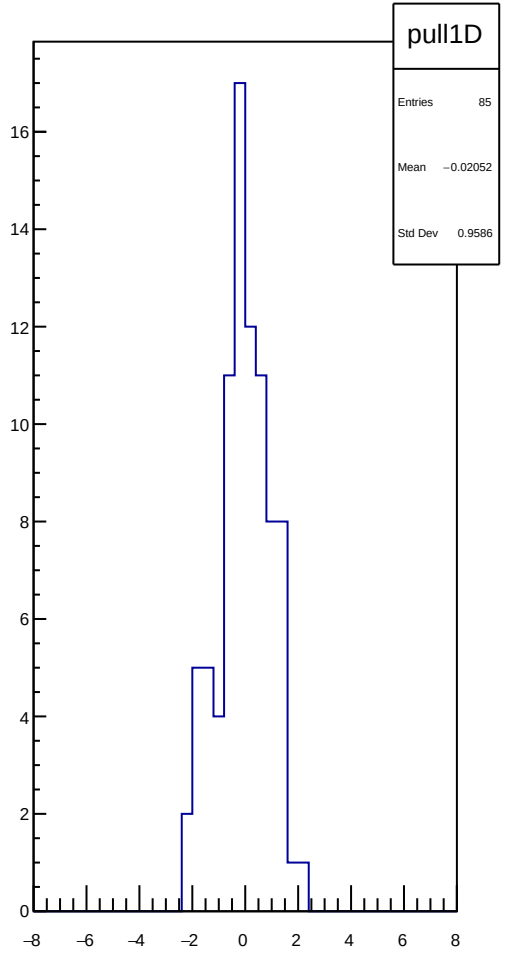

eigen_cor_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 9690 / 84
p0 49.76 ± 0.03894
70
65
60
55
50
45

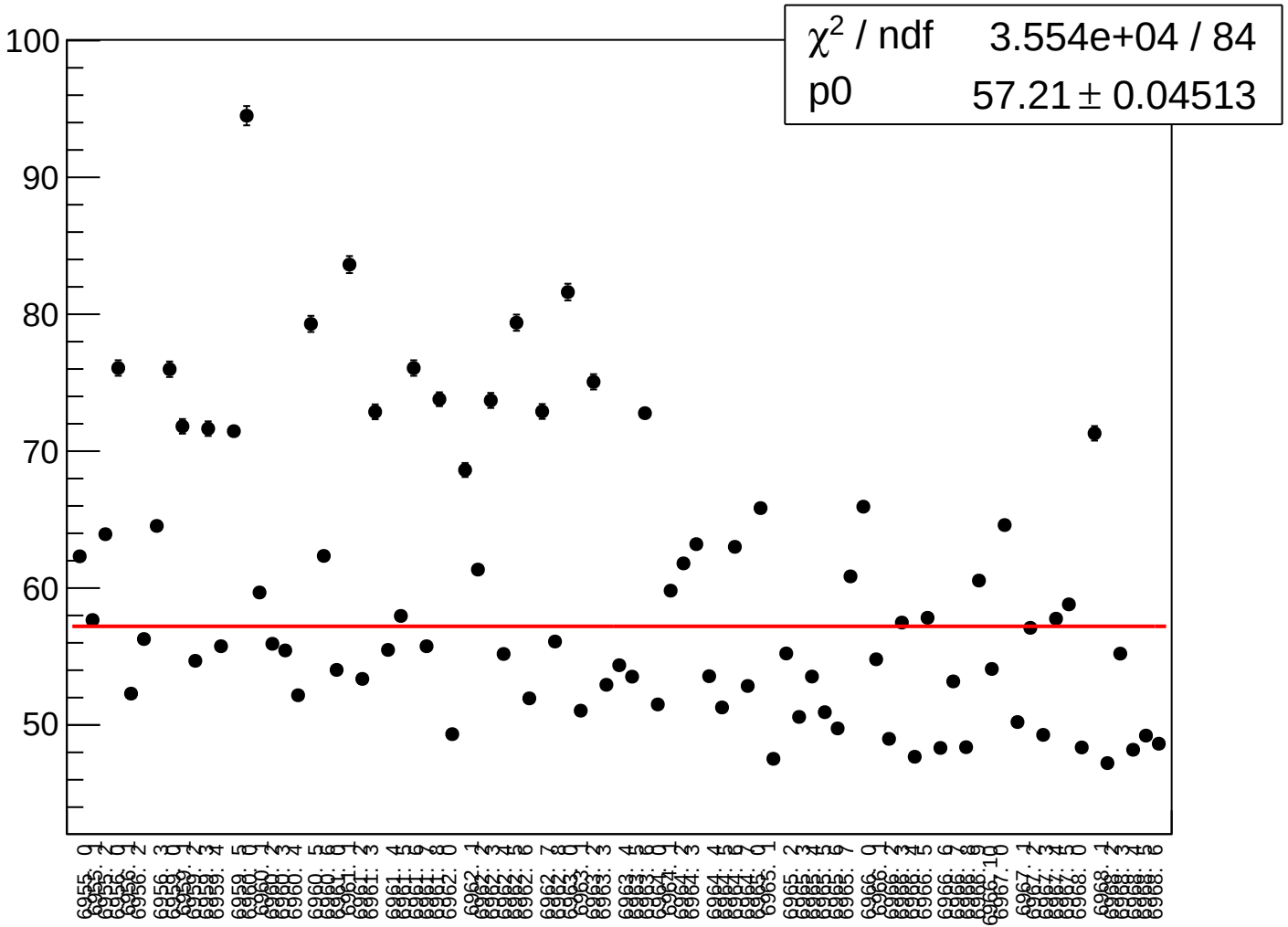

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.74 / 84
p0 −211.5 ± 448.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 5.045
Std Dev 6.654
3
2
1
0
−1
−2

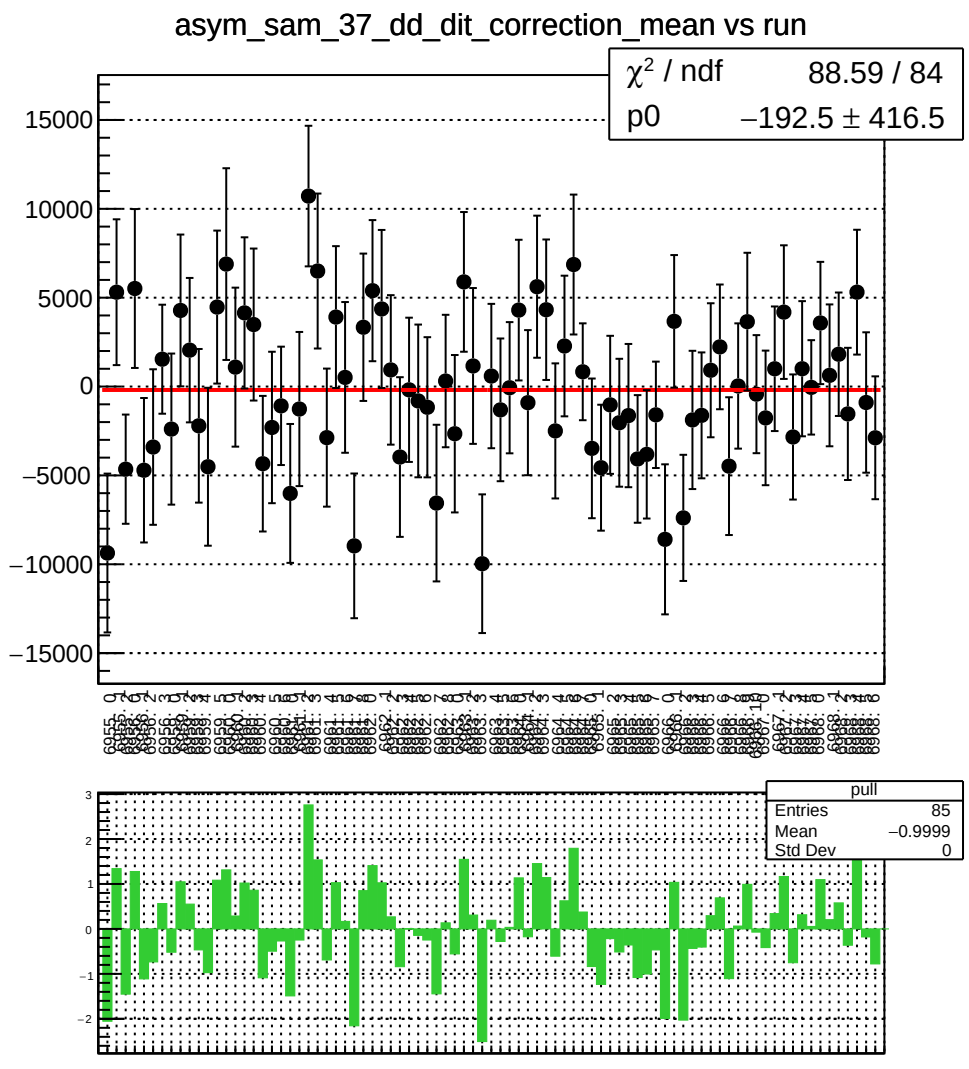

pull1D
Entries 85
Mean 0.01018
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

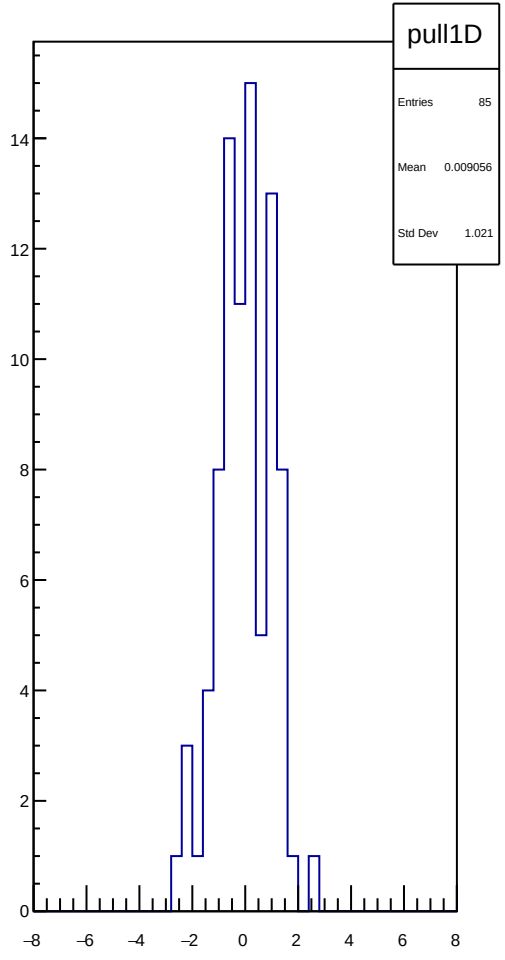

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.665e+04 / 84
p0 404.2 ± 0.317
600
550
500
450
400
350

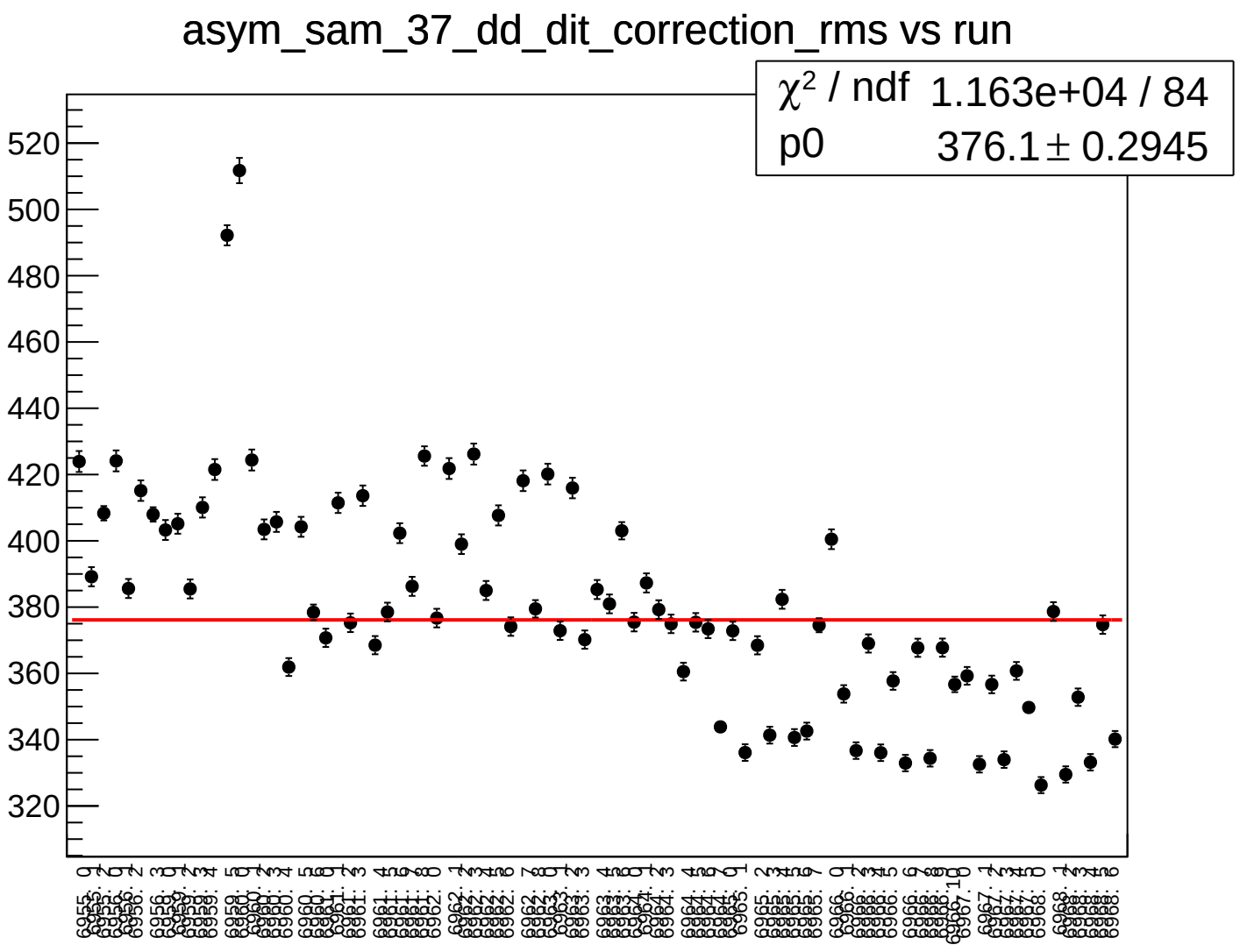

dit_asym_sam_37_dd_mean vs run
χ² / ndf 78.14 / 84
p0 104.2 ± 63.82
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −91.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

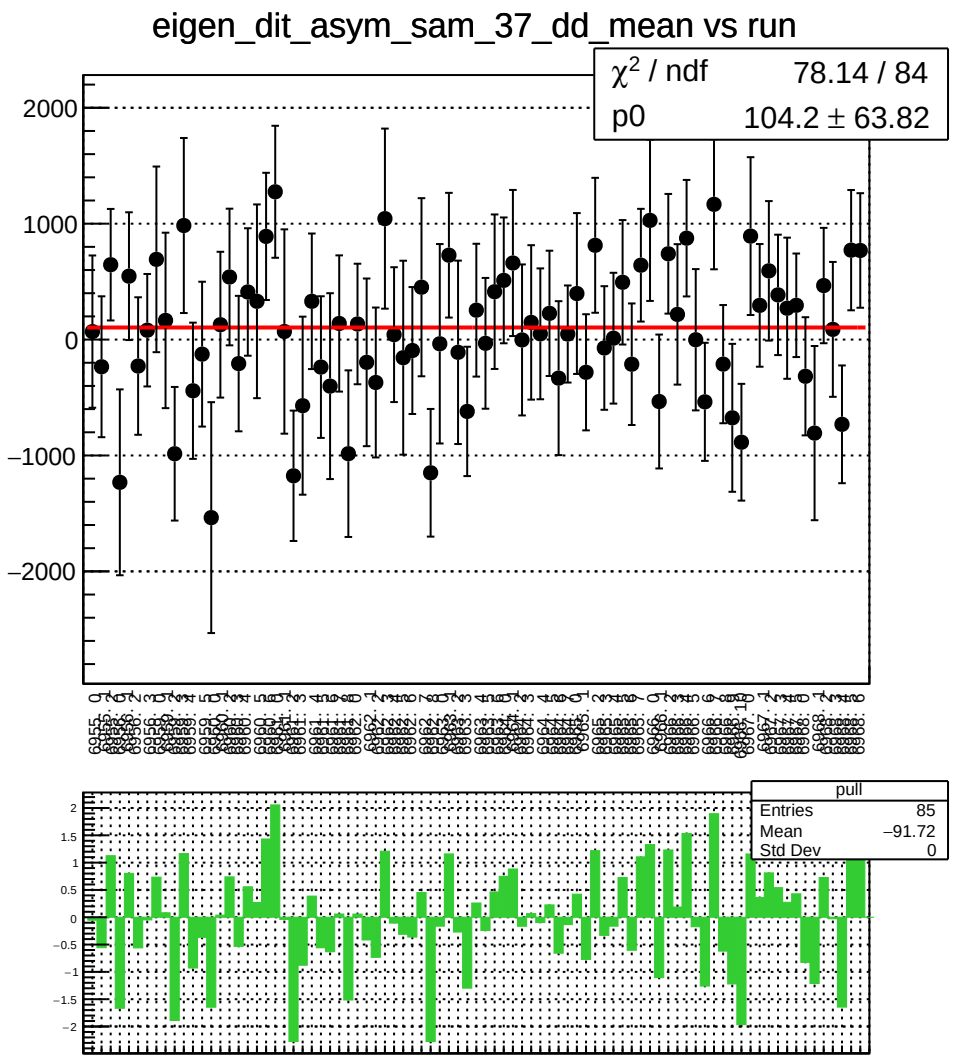

pull1D
Entries 85
Mean −0.02052
Std Dev 0.9586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

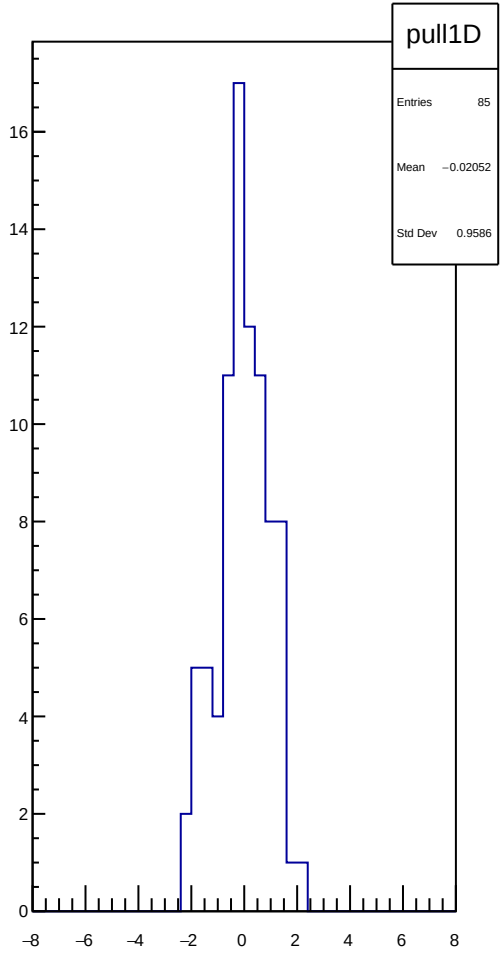

dit_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 3.554e+04 / 84
p0 57.21 ± 0.04513
100
90
80
70
60
50

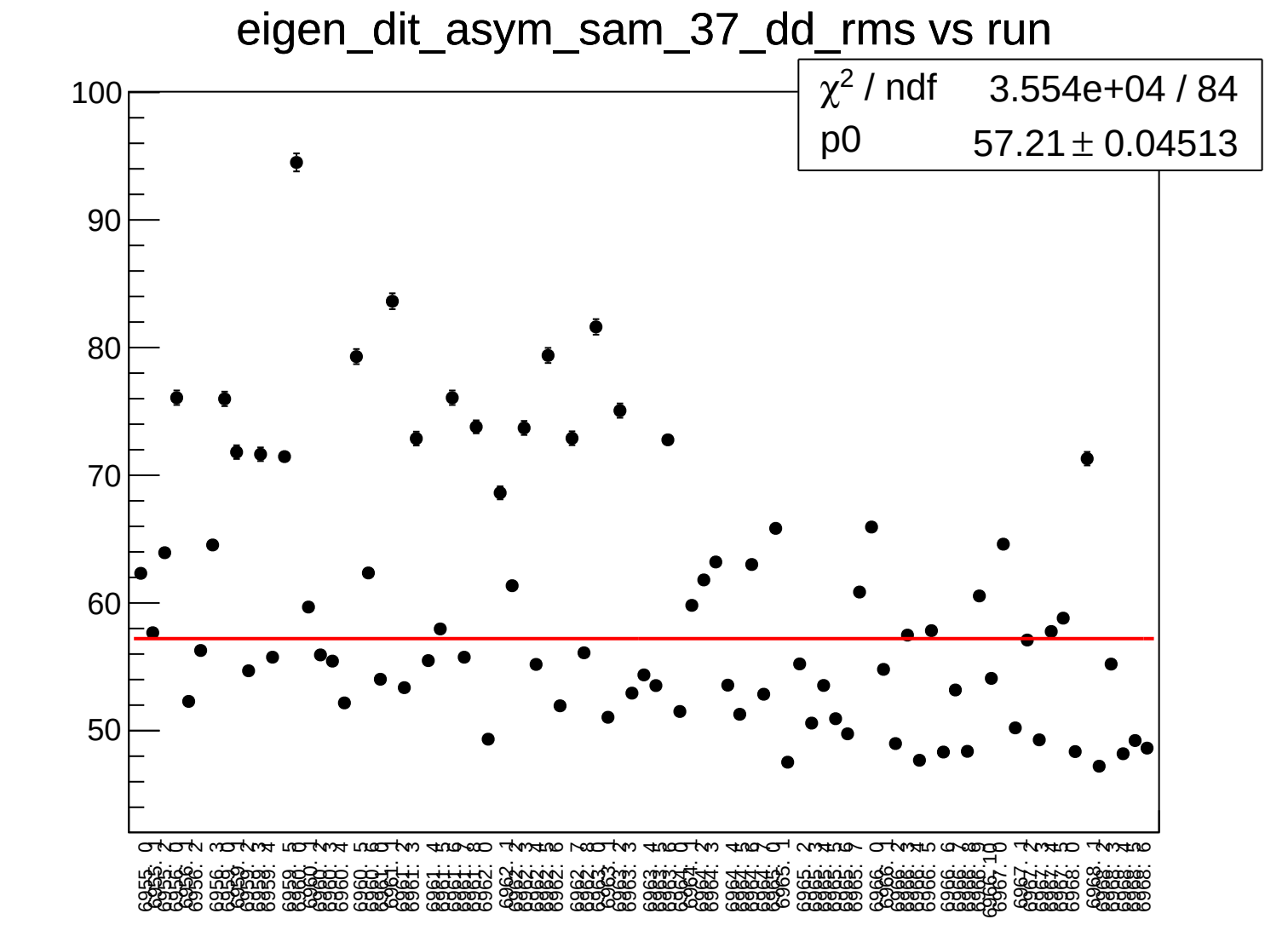

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 88.59 / 84
p0 −192.5 ± 416.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −0.9999
Std Dev 0
3
2
1
0
−1
−2

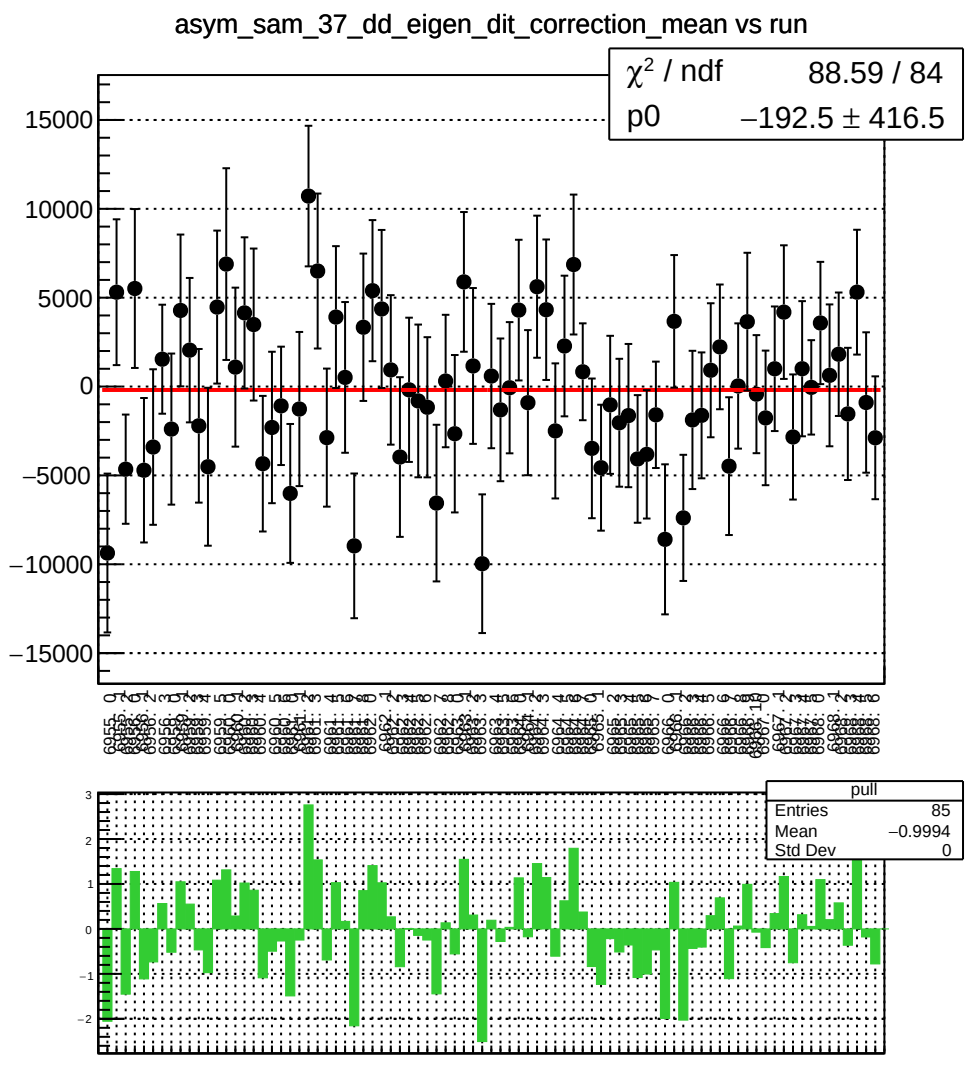

pull1D
Entries 85
Mean 0.009056
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

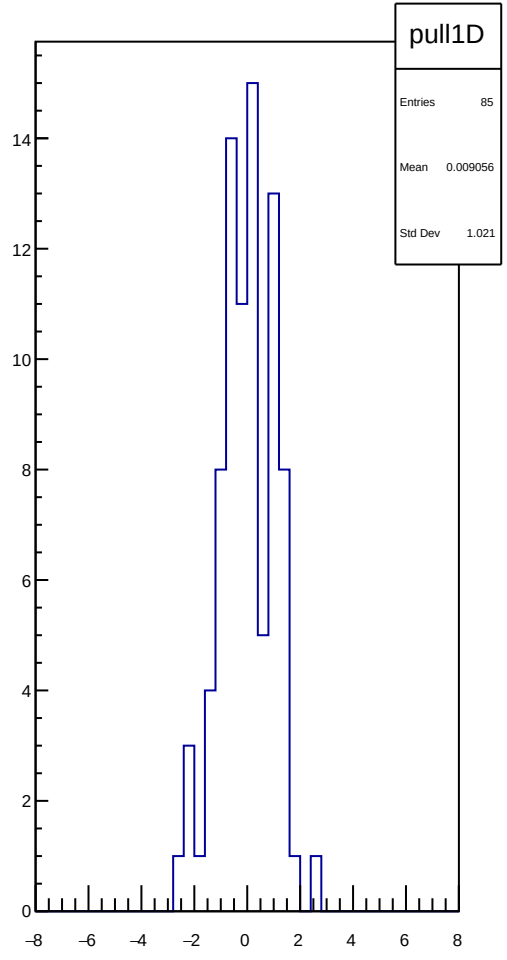

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.163e+04 / 84
p0 376.1 ± 0.2945
520
500
480
460
440
420
400
380
360
340
320

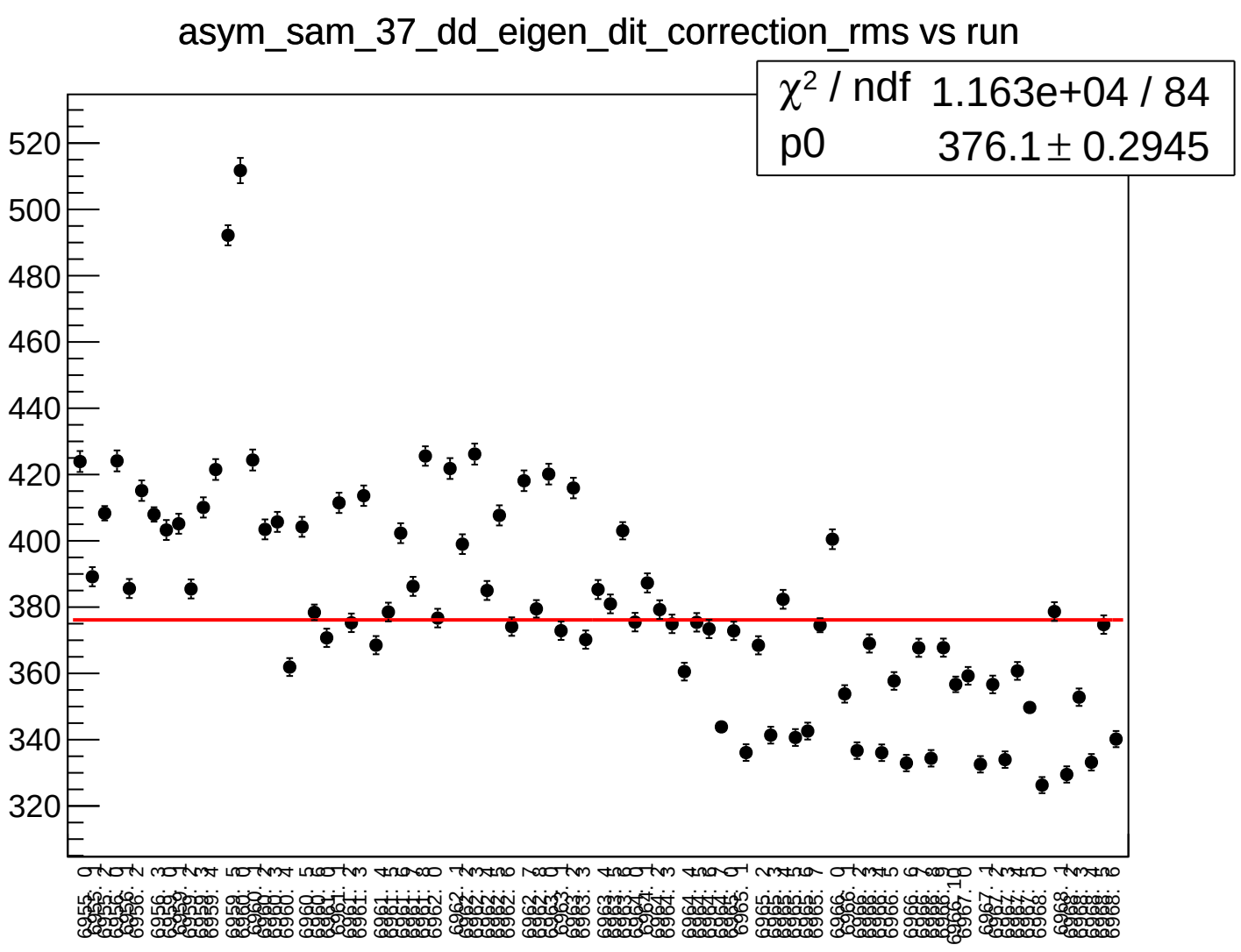

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 78.14 / 84
p0 104.2 ± 63.82
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −91.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

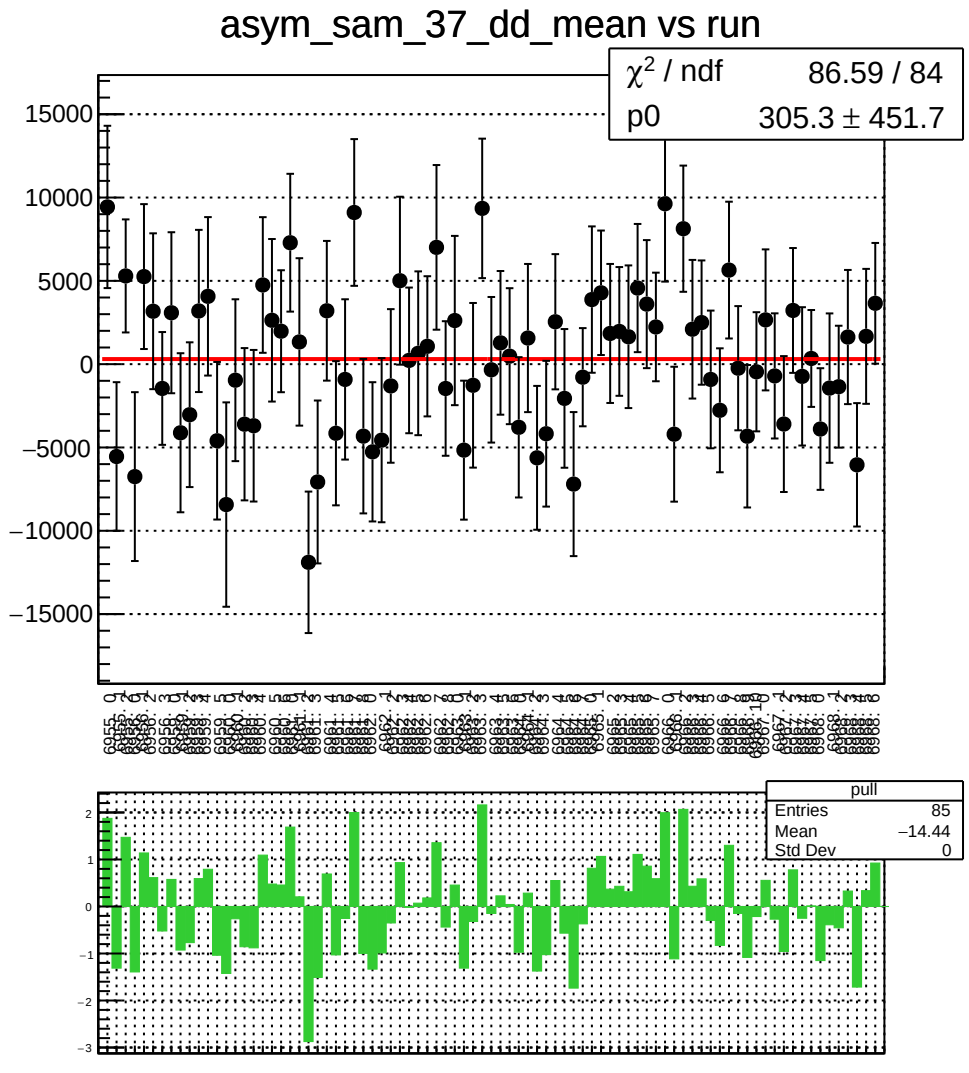

pull1D
Entries 85
Mean −0.02052
Std Dev 0.9586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

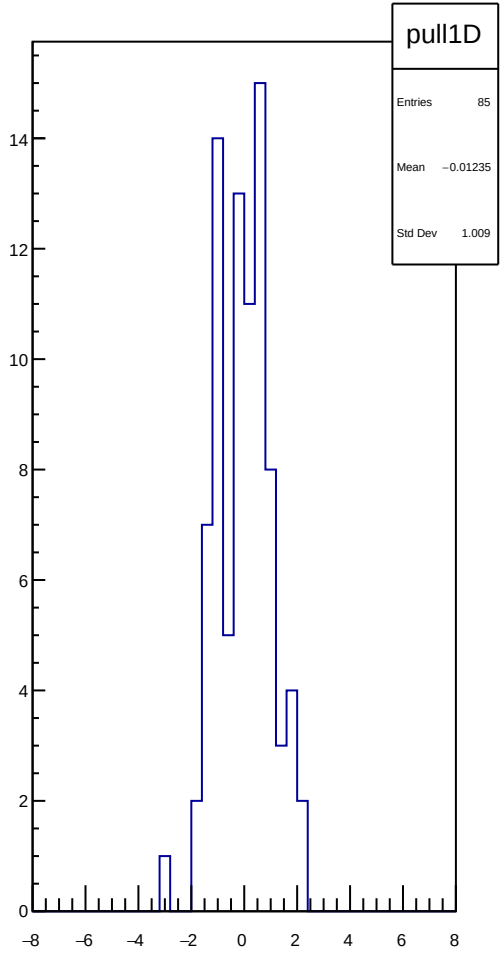

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 3.554e+04 / 84
p0 57.21 ± 0.04513
100
90
80
70
60
50

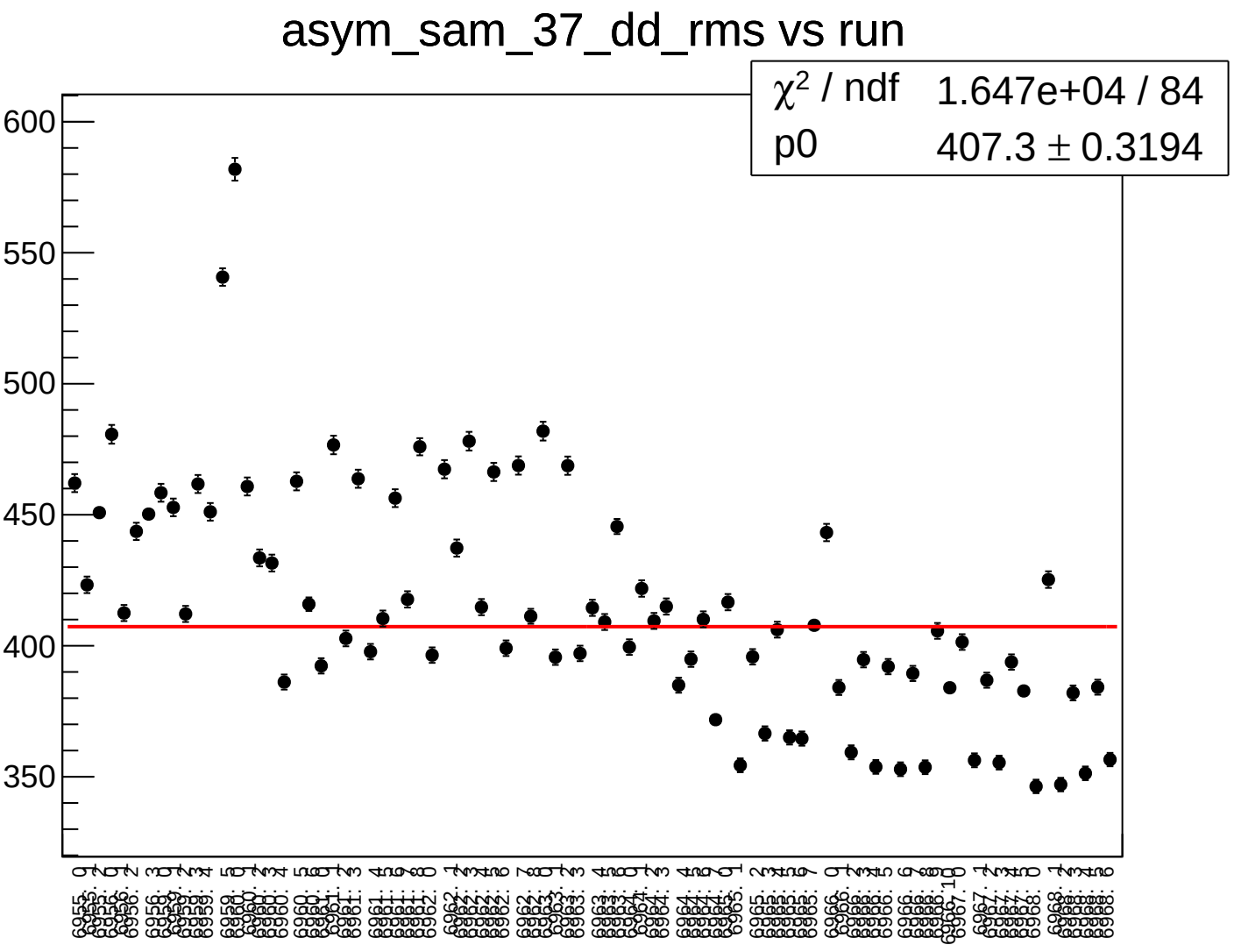

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.59 / 84
p0 −192.5 ± 416.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −0.9994
Std Dev 0
3
2
1
0
−1
−2

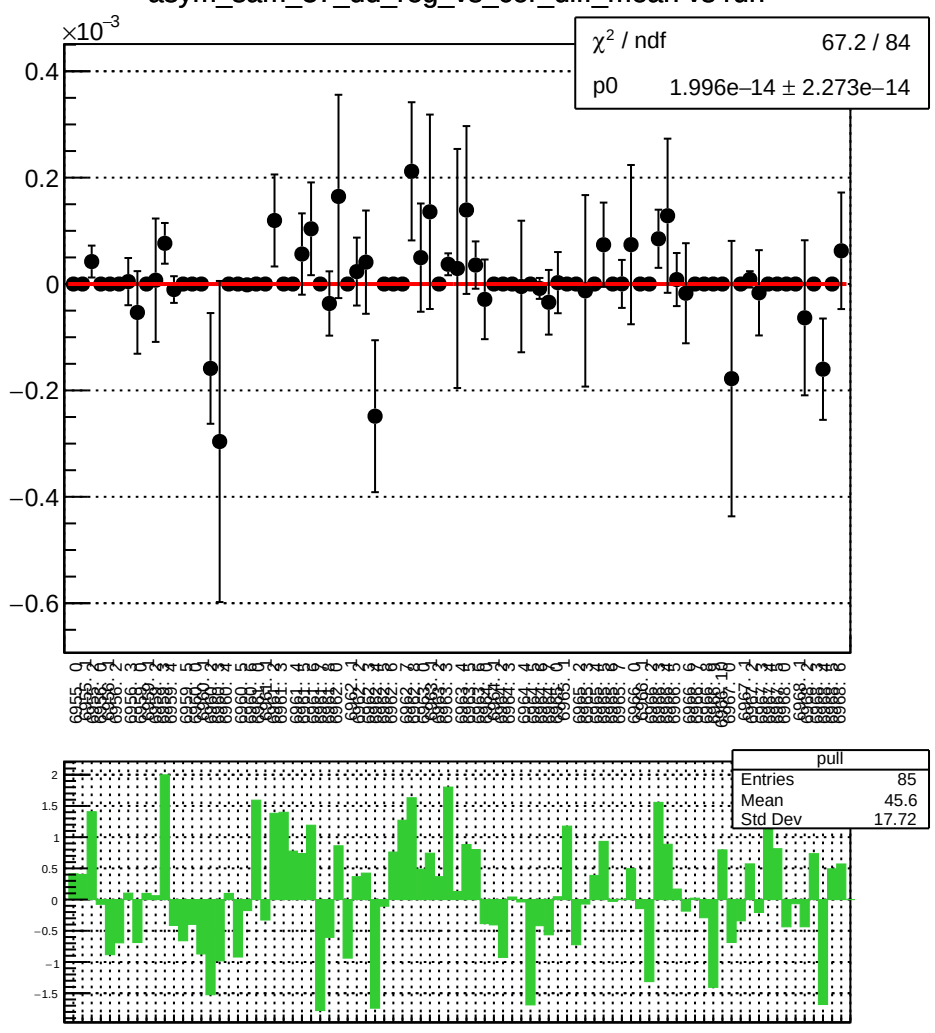

pull1D
Entries 85
Mean 0.009056
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

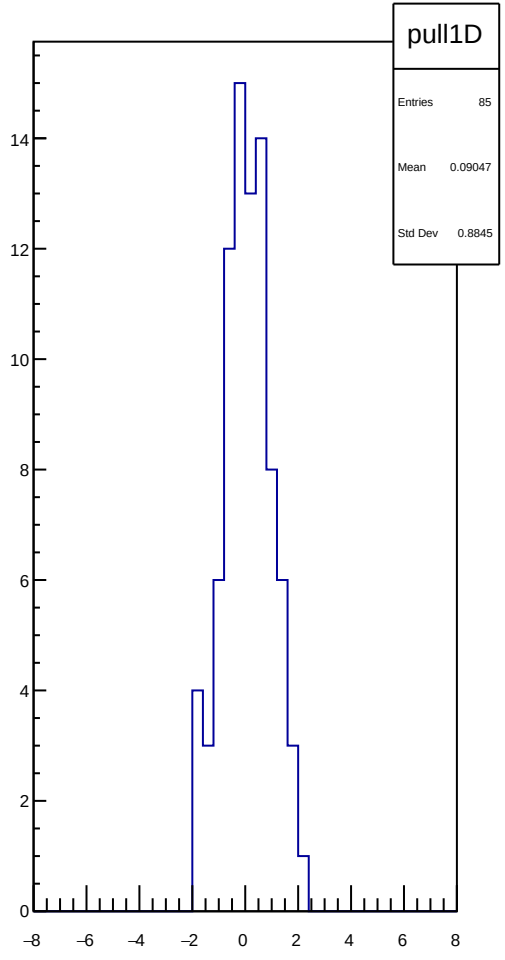

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.163e+04 / 84
p0 376.1 ± 0.2945
520
500
480
460
440
420
400
380
360
340
320

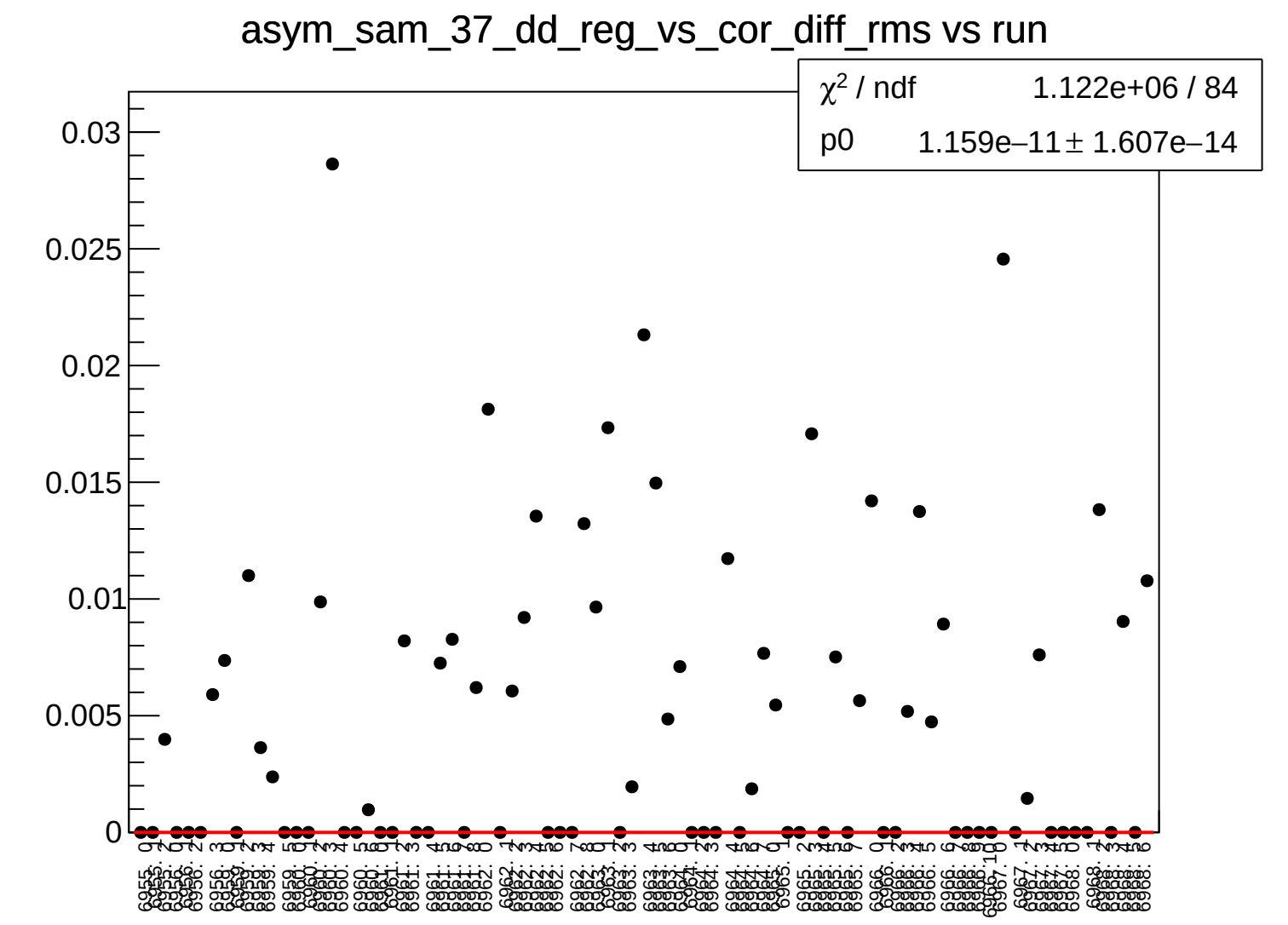

asym_sam_37_dd_mean vs run
χ² / ndf 86.59 / 84
p0 305.3 ± 451.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −14.44
Std Dev 0
2
1
0
−1
−2
−3

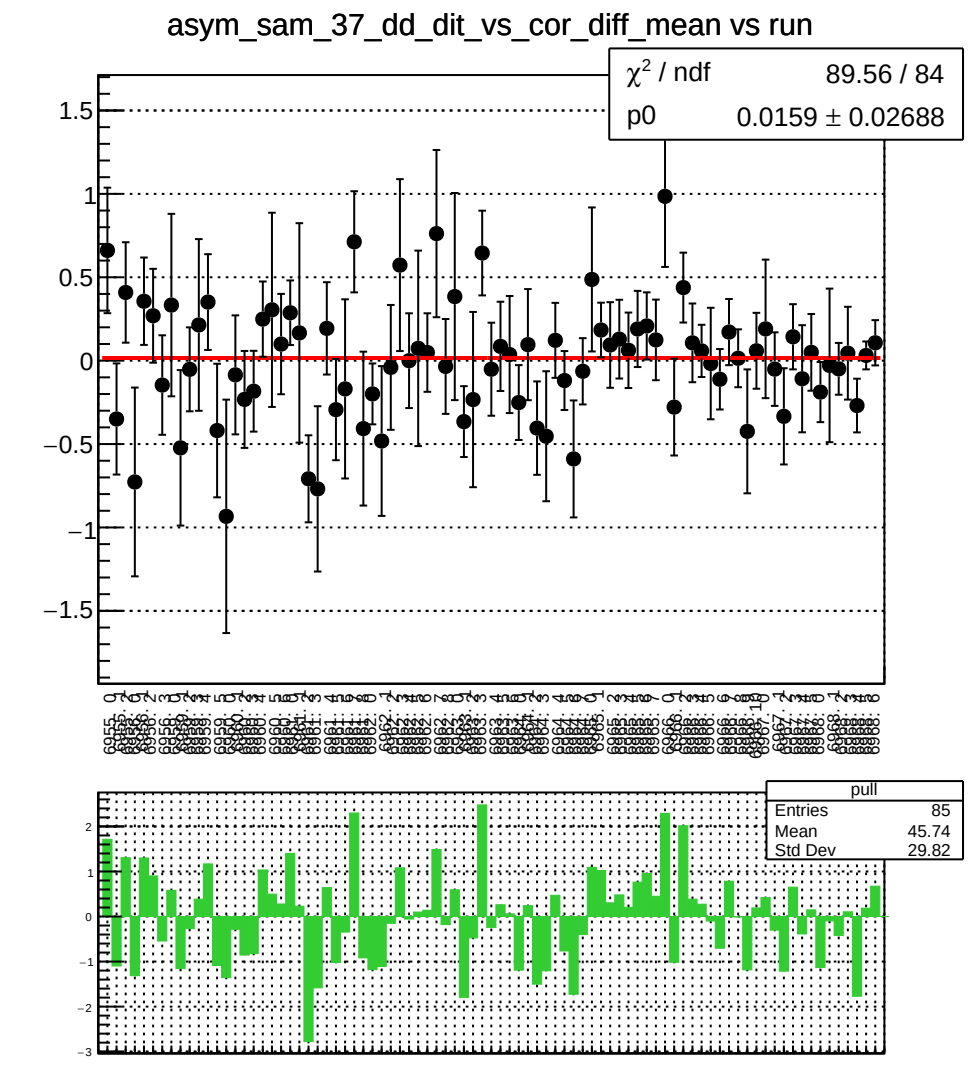

pull1D
Entries 85
Mean −0.01235
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

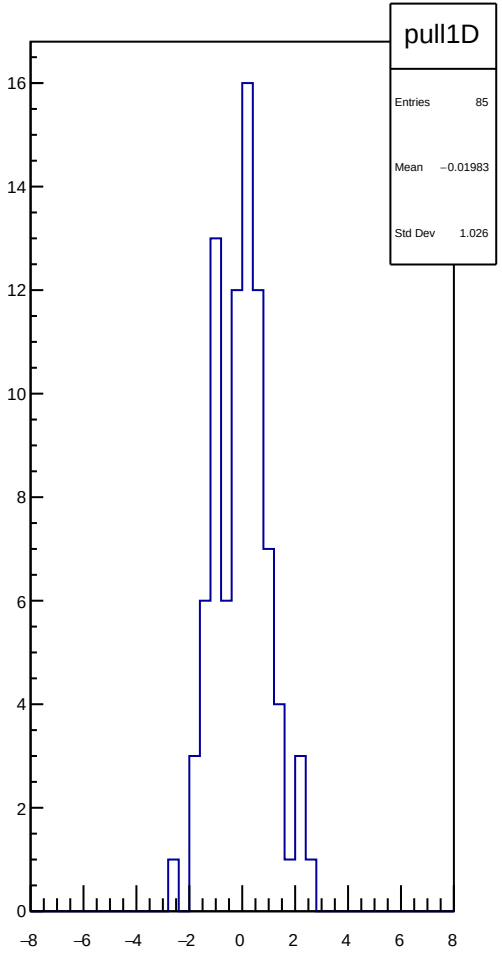

asym_sam_37_dd_rms vs run
χ² / ndf 1.647e+04 / 84
p0 407.3 ± 0.3194
600
550
500
450
400
350

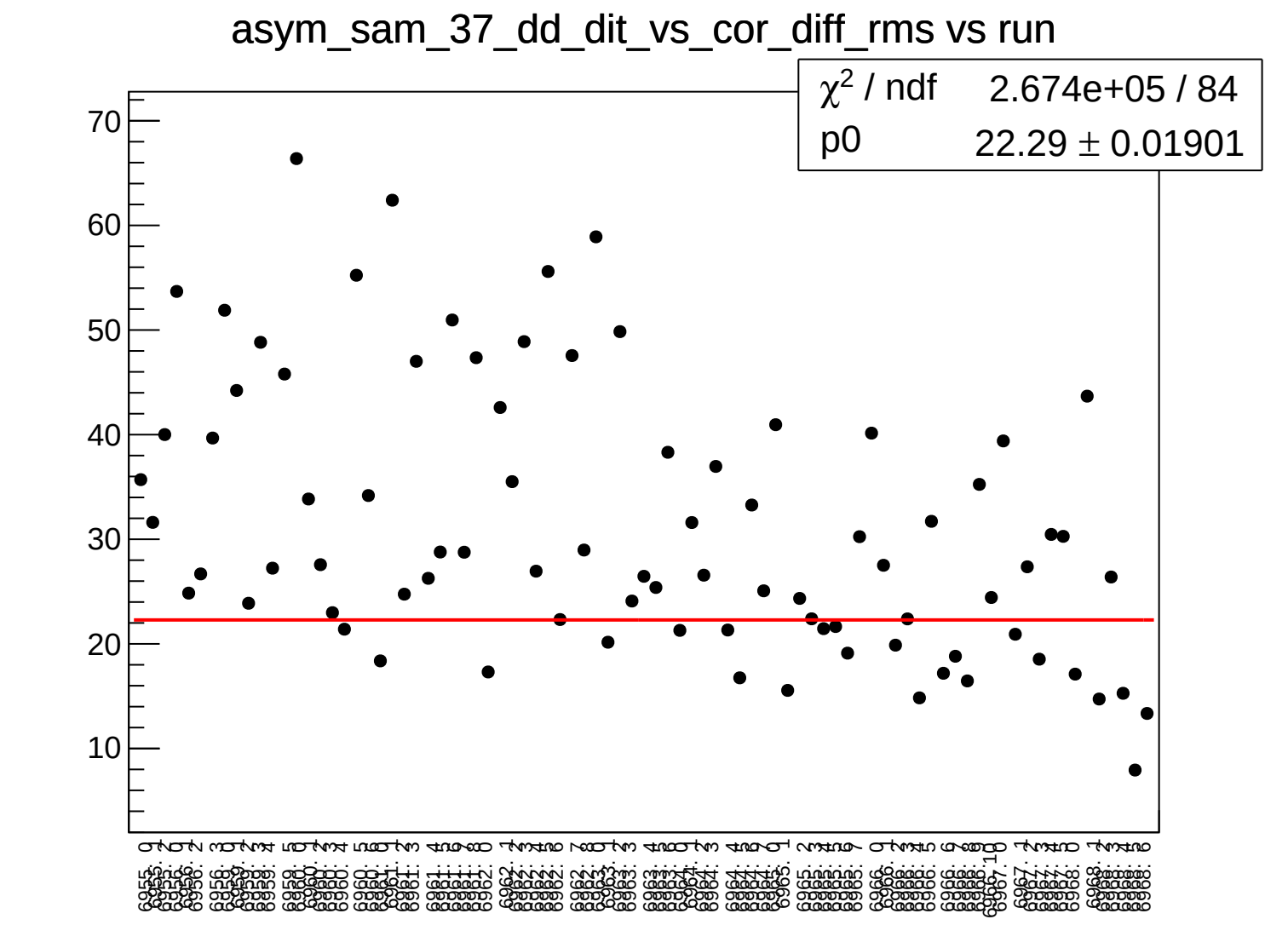

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 67.2 / 84
p0 1.996e−14 ± 2.273e−14
pull
Entries 85
Mean 45.6
Std Dev 17.72

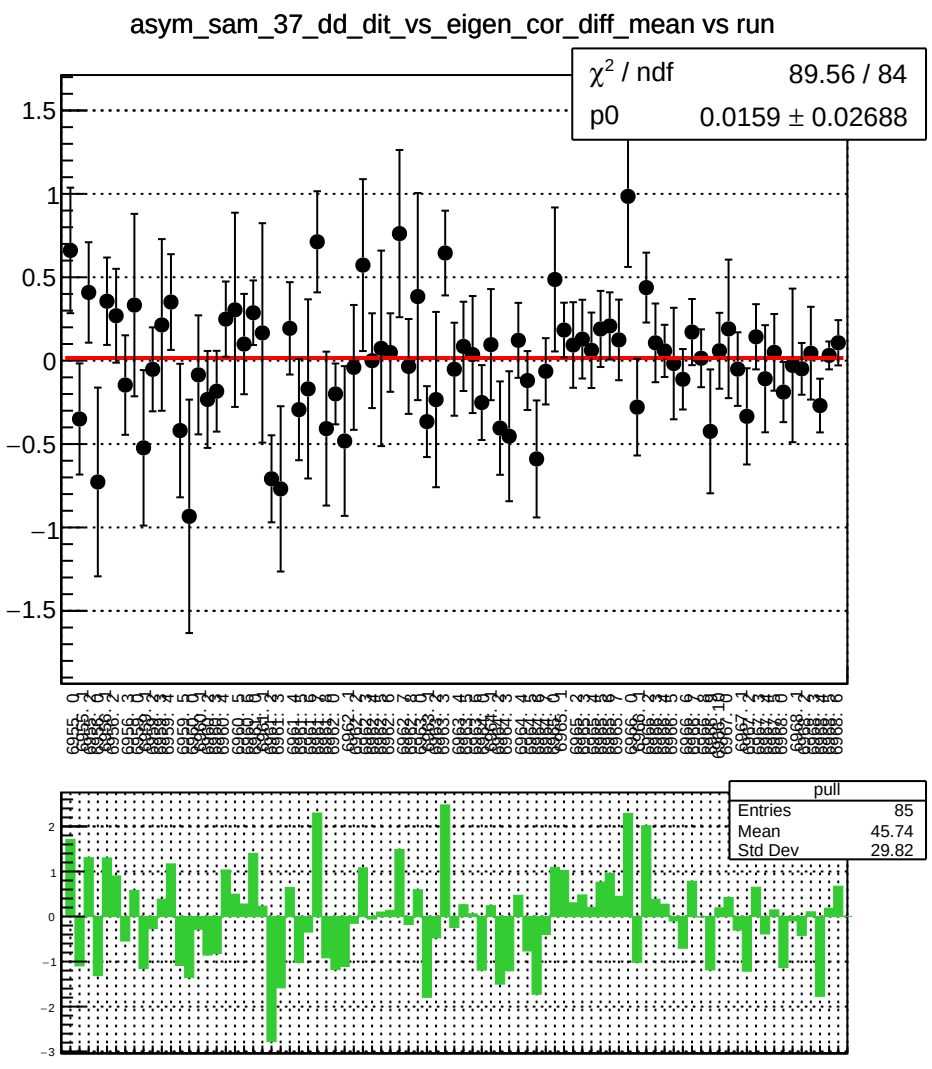

pull1D
Entries 85
Mean 0.09047
Std Dev 0.8845

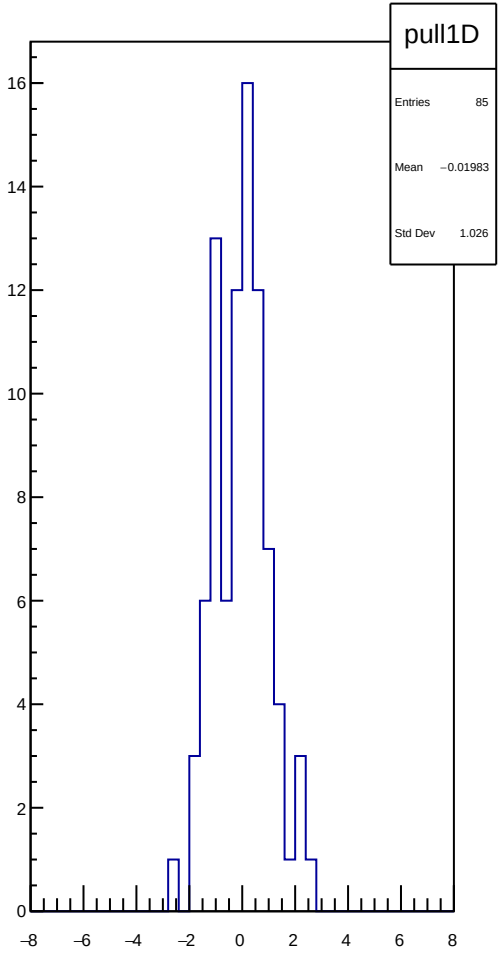

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.122e+06 / 84
p0 1.159e−11 ± 1.607e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

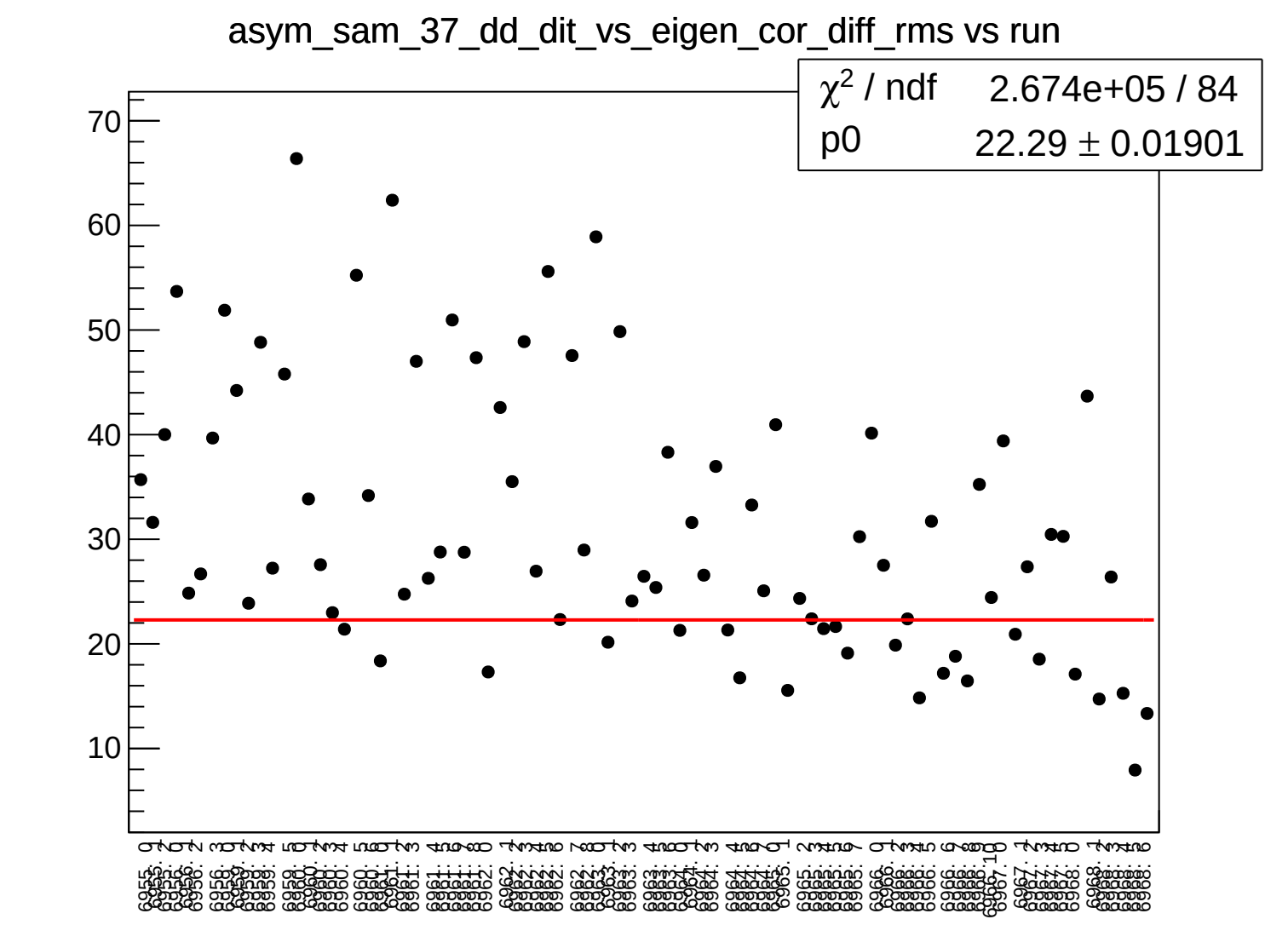

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.56 / 84
p0 0.0159 ± 0.02688
pull
Entries 85
Mean 45.74
Std Dev 29.82

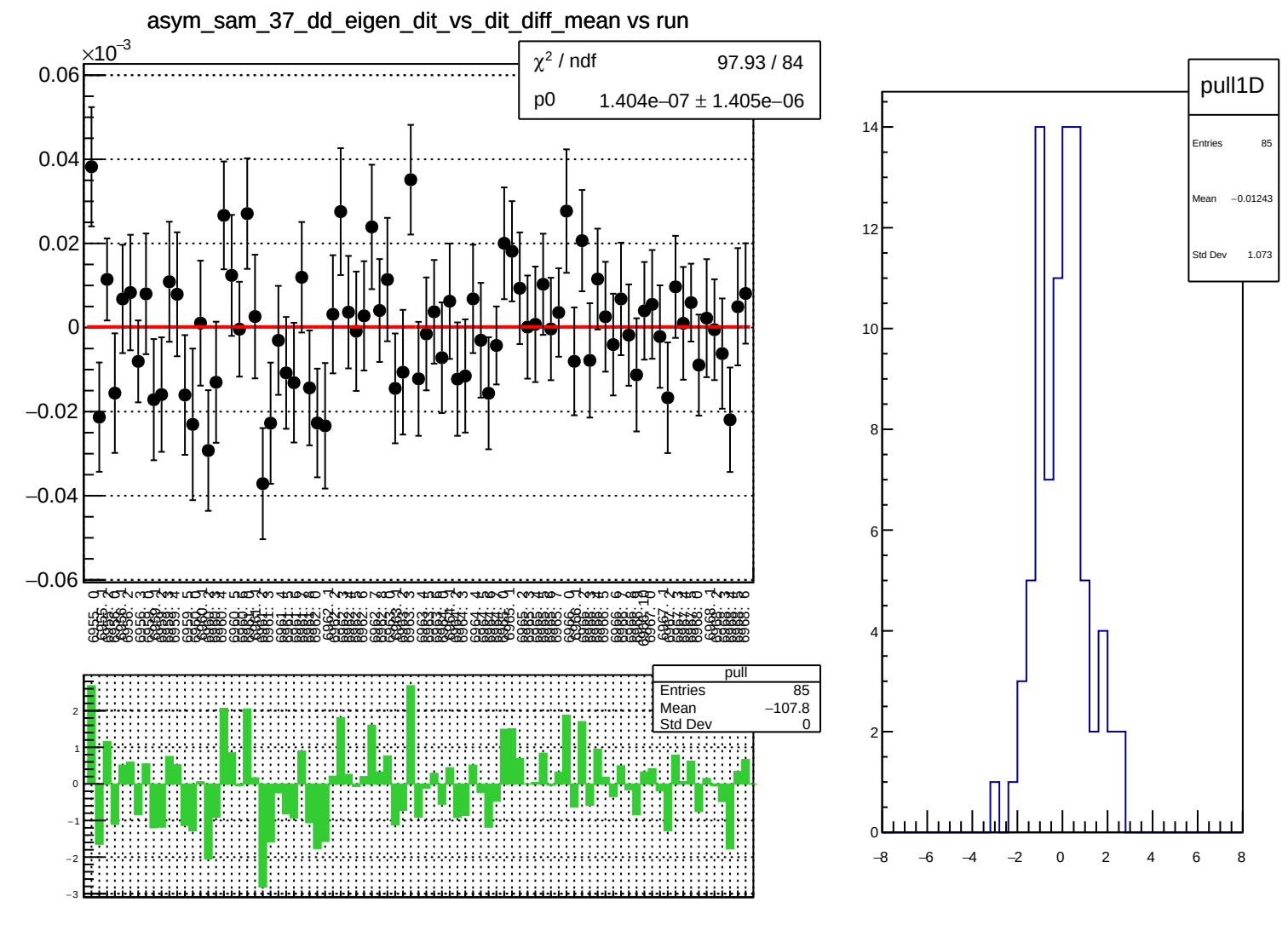

pull1D
Entries 85
Mean −0.01983
Std Dev 1.026

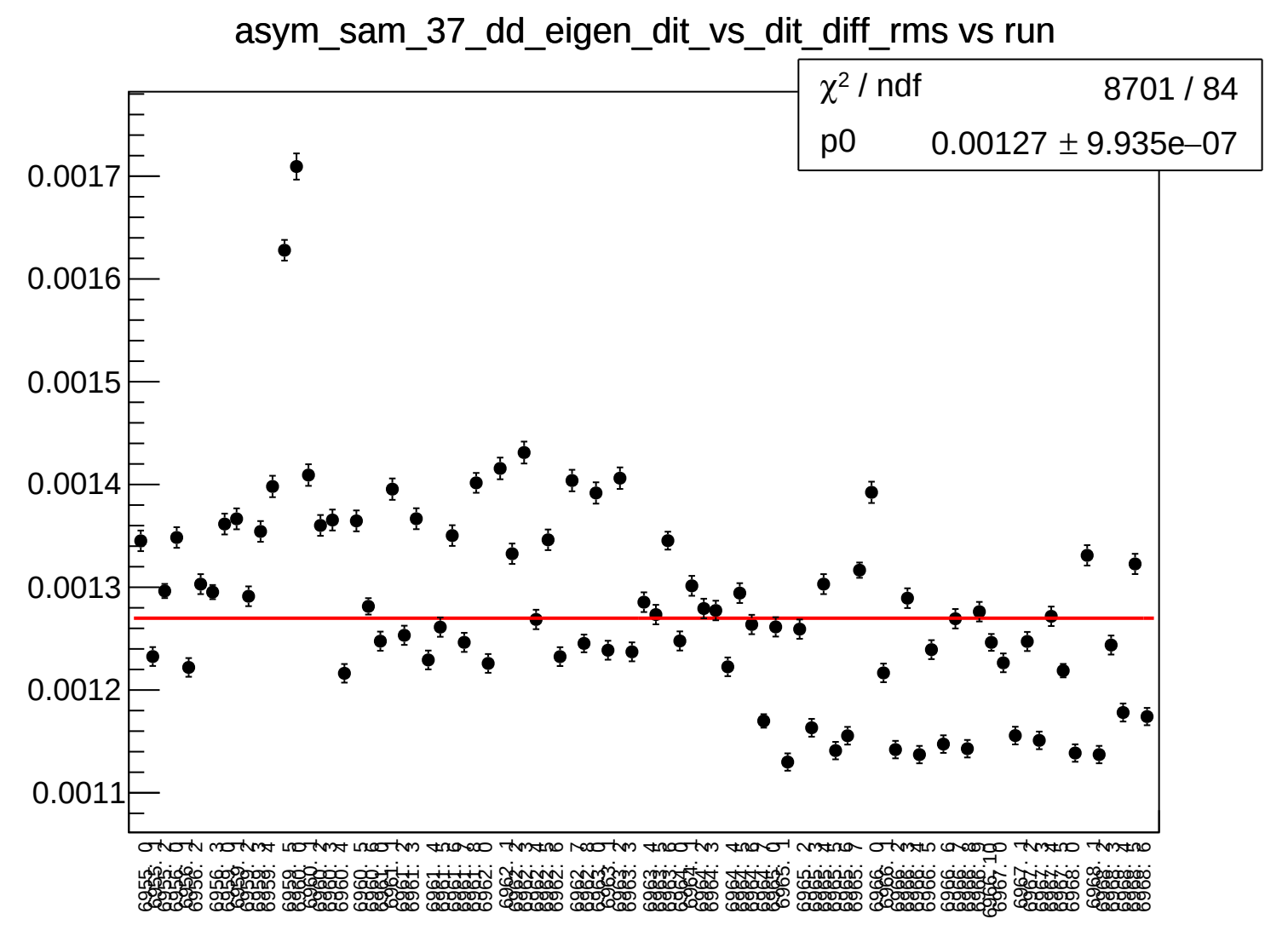

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.674e+05 / 84
p0 22.29 ± 0.01901
70
60
50
40
30
20
10

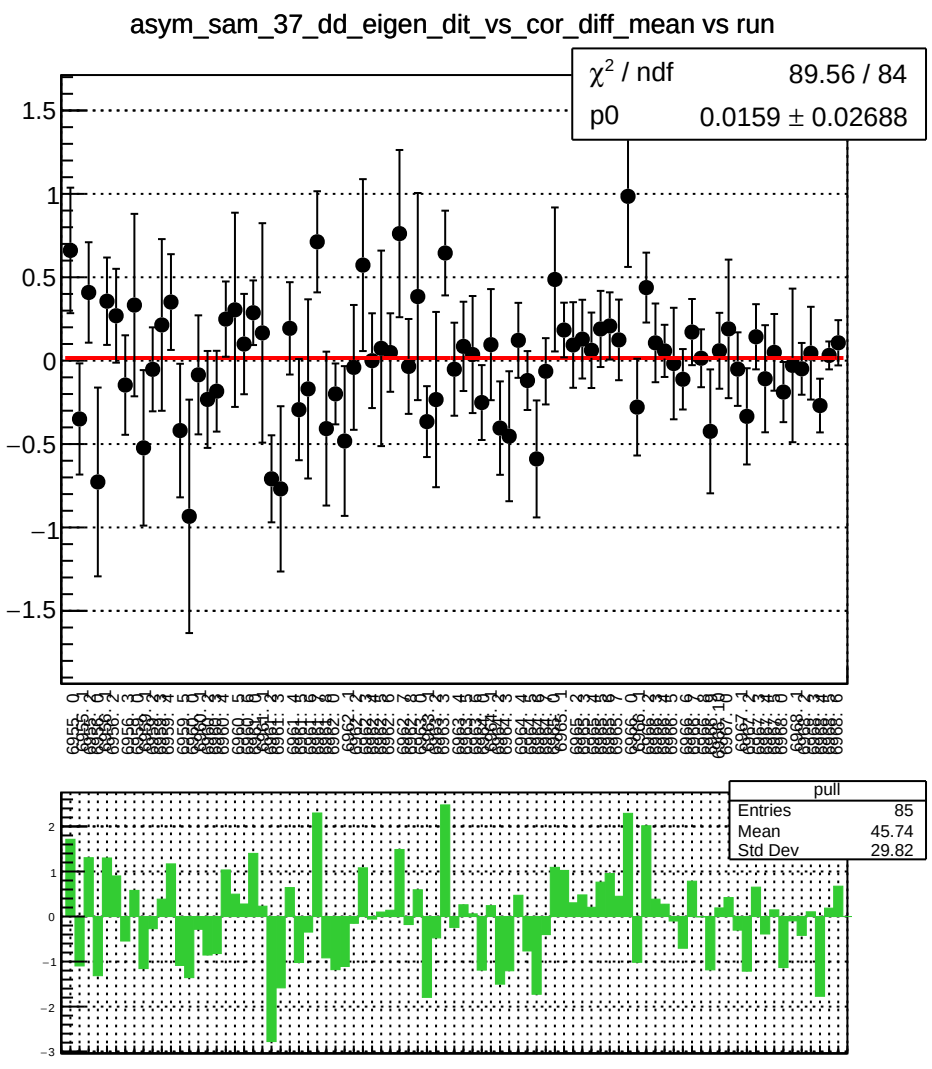

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.56 / 84
p0 0.0159 ± 0.02688
pull
Entries 85
Mean 45.74
Std Dev 29.82

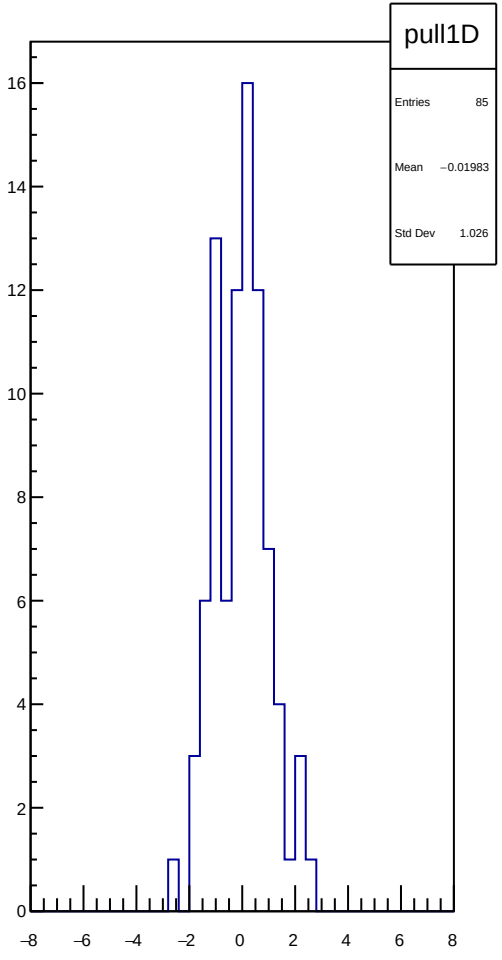

pull1D
Entries 85
Mean −0.01983
Std Dev 1.026

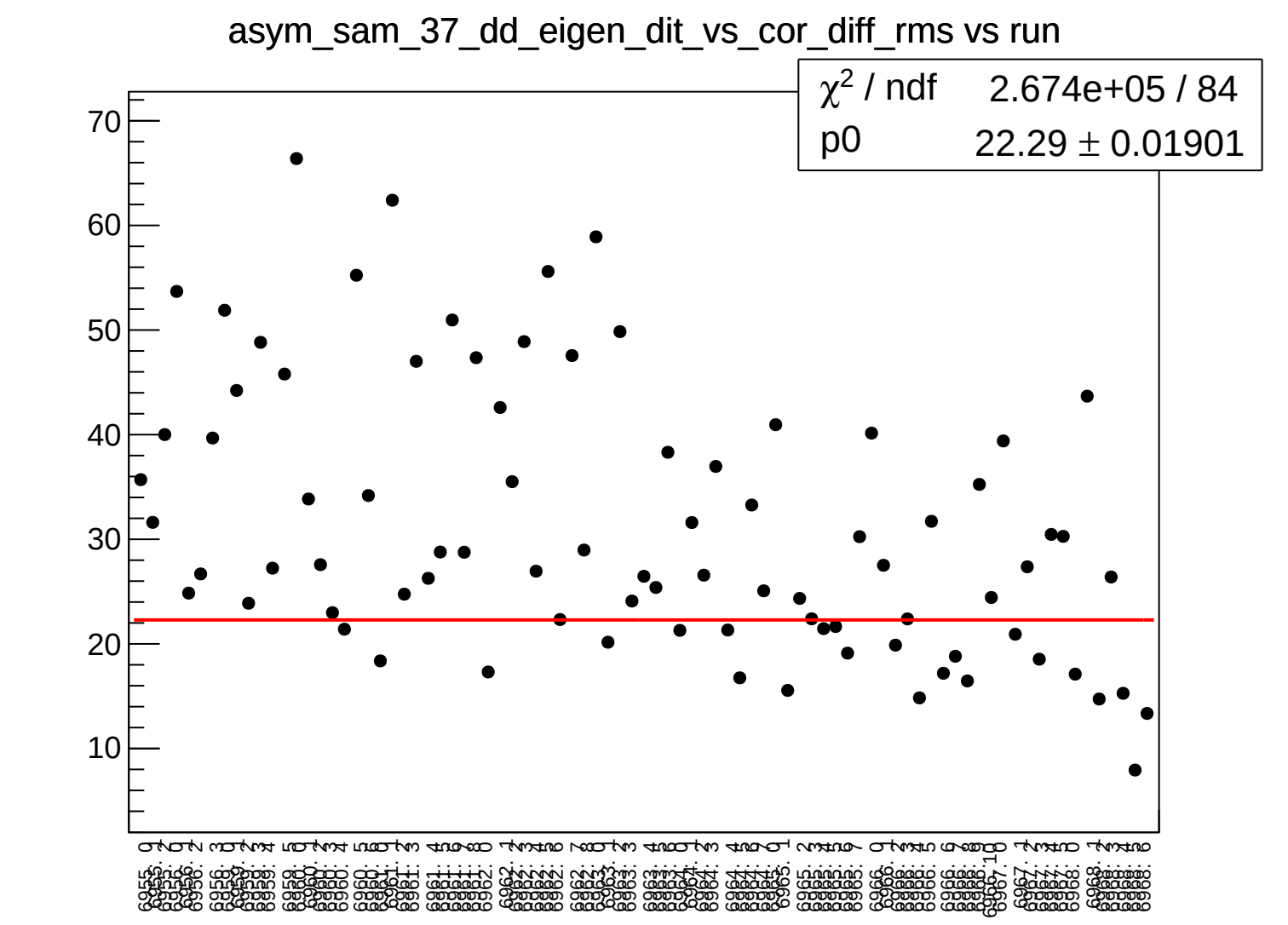

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 2.674e+05 / 84
p0 22.29 ± 0.01901
70
60
50
40
30
20
10

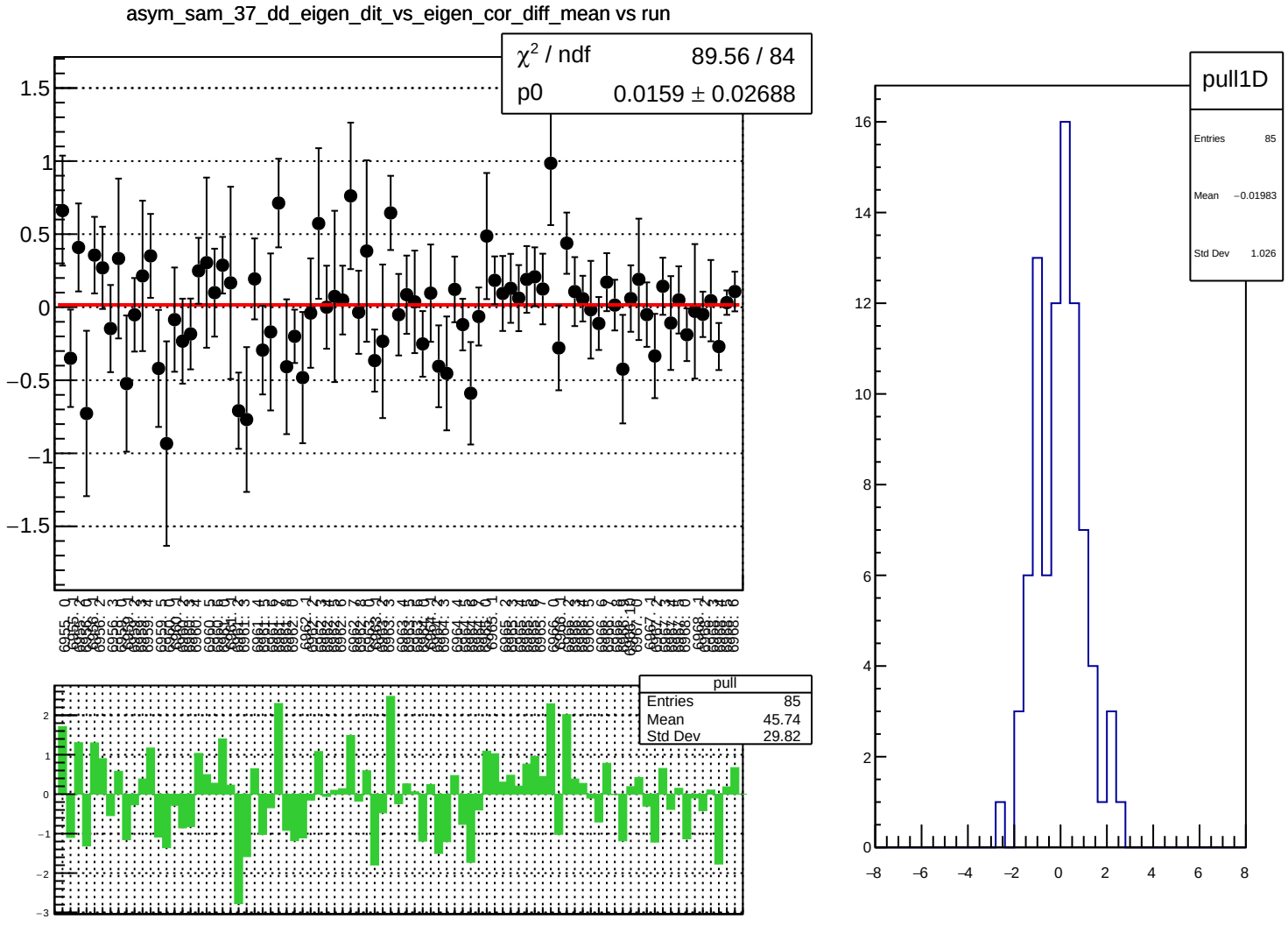

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.93 / 84
p0 1.404e−07 ± 1.405e−06
pull
Entries 85
Mean −107.8
Std Dev 0
pull1D
Entries 85
Mean −0.01243
Std Dev 1.073

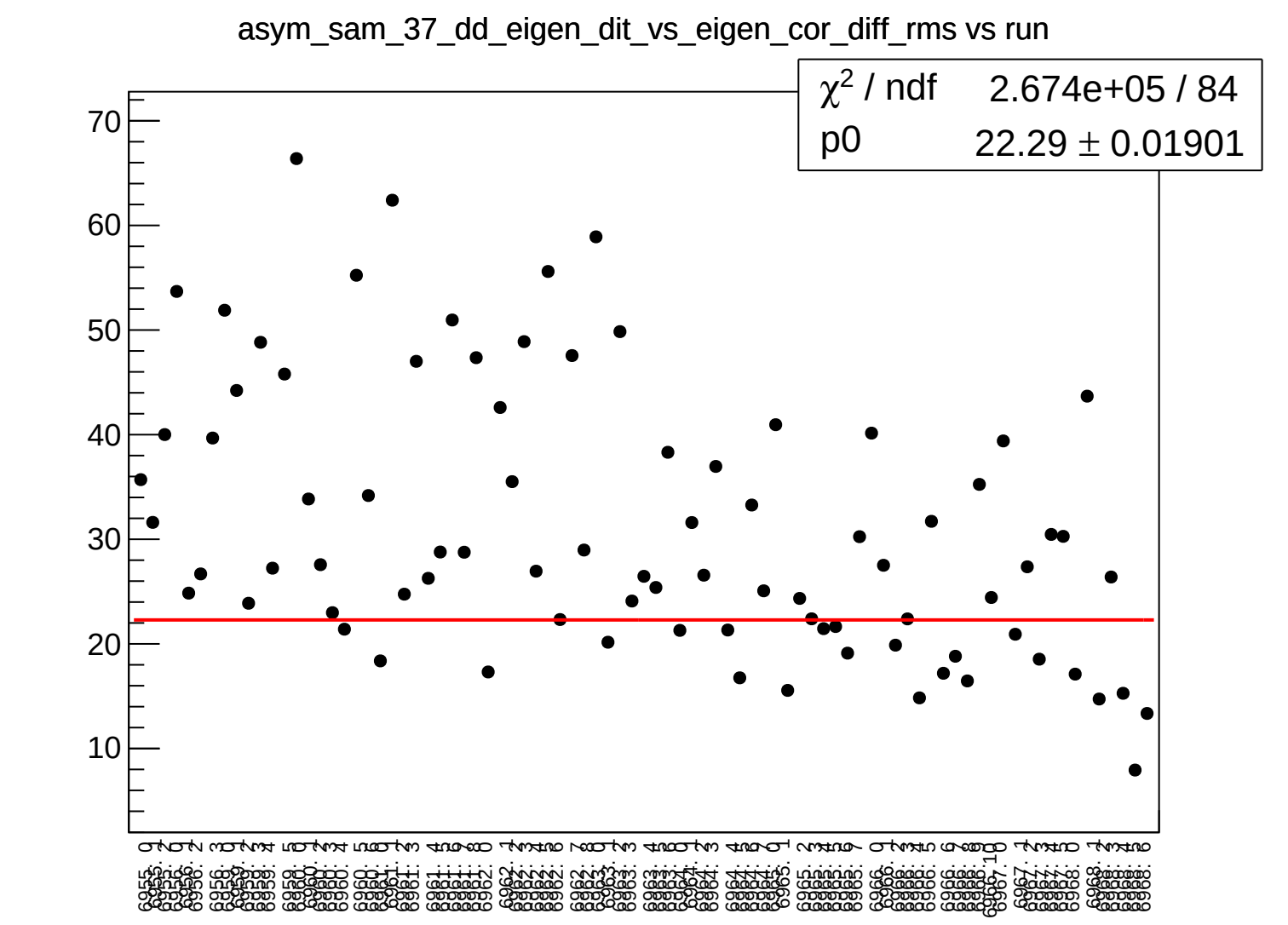

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8701 / 84
p0 0.00127 ± 9.935e–07
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

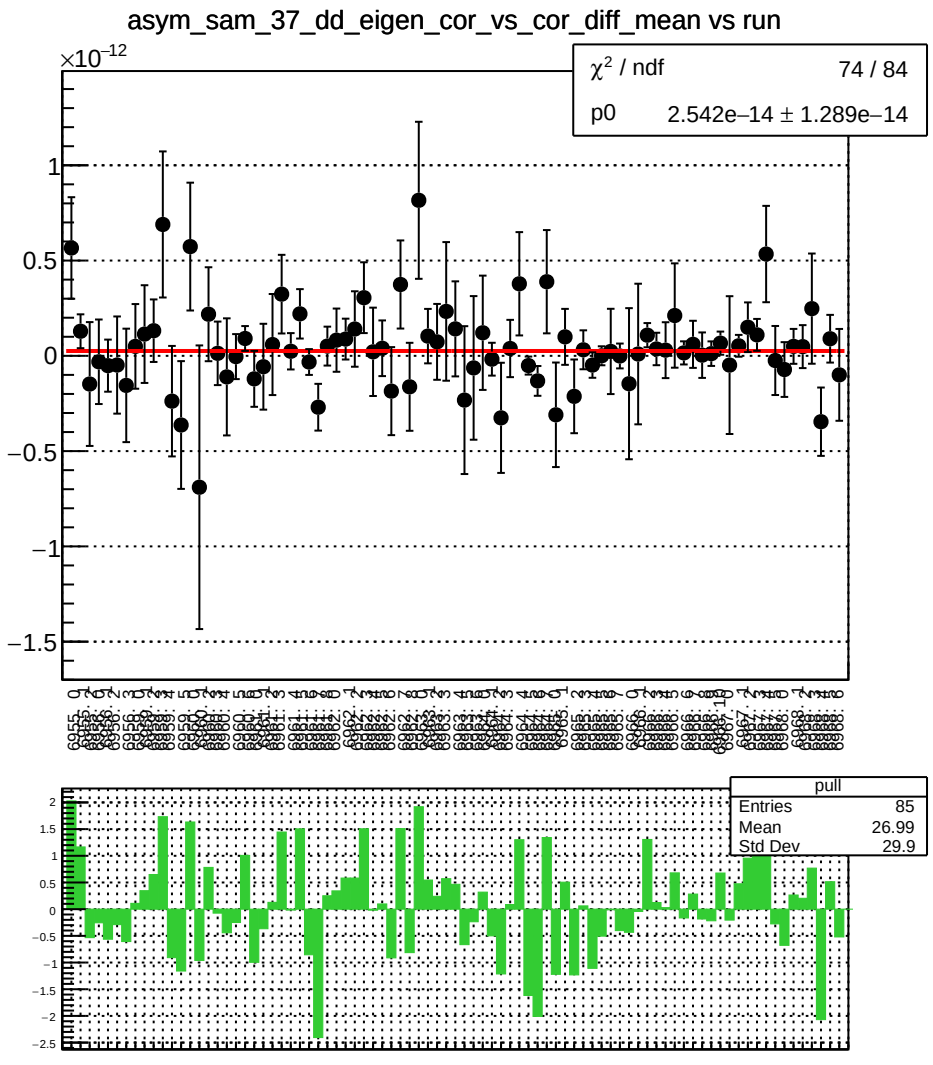

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.56 / 84
p0 0.0159 ± 0.02688
pull
Entries 85
Mean 45.74
Std Dev 29.82

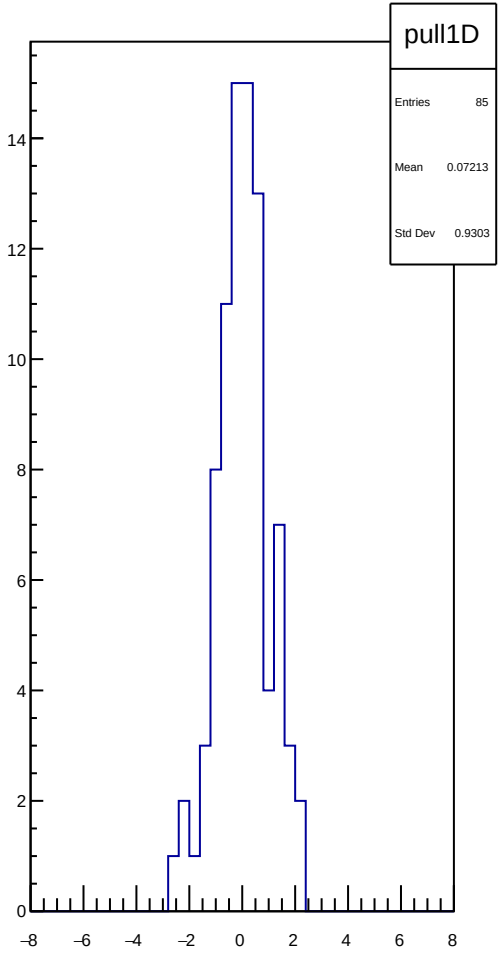

pull1D
Entries 85
Mean −0.01983
Std Dev 1.026

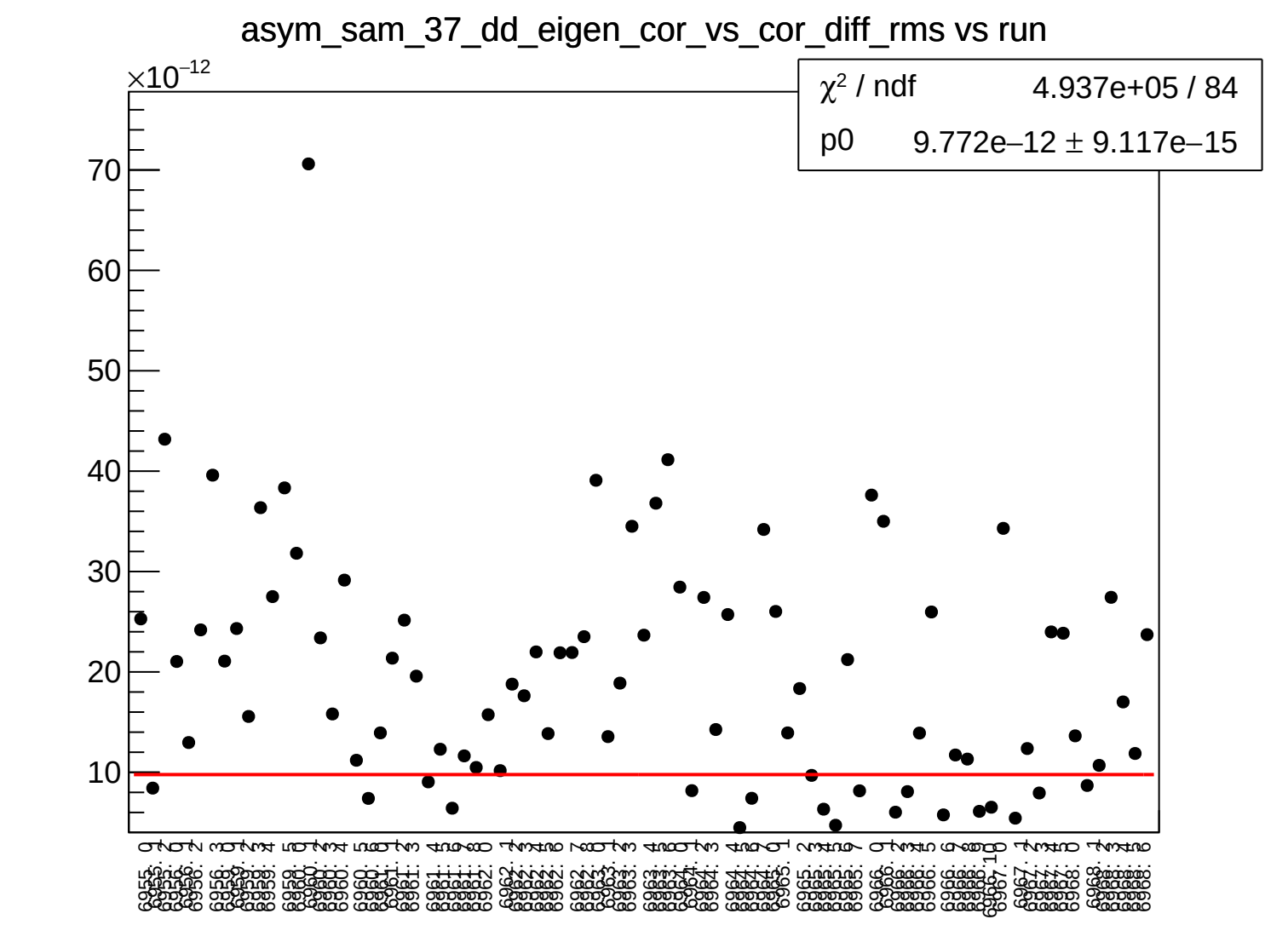

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.674e+05 / 84
p0 22.29 ± 0.01901
70
60
50
40
30
20
10

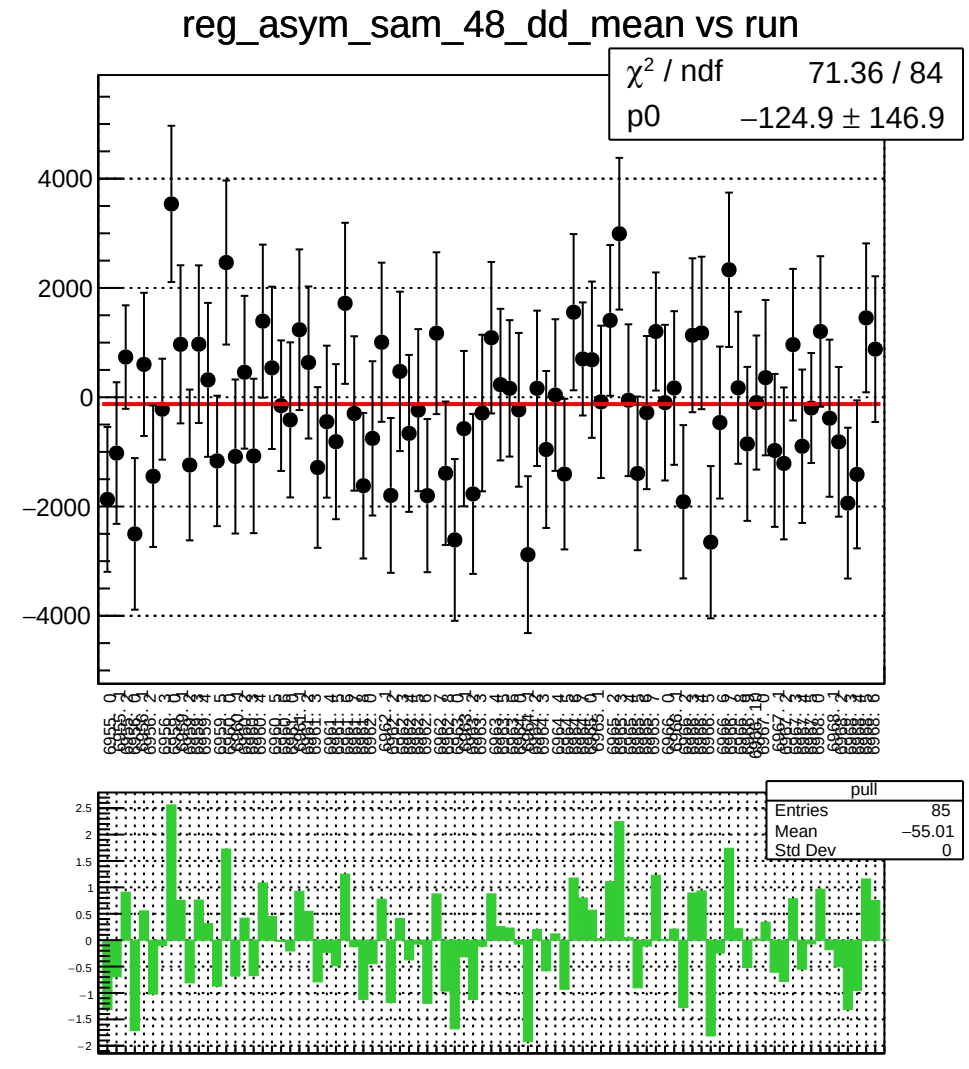

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.56 / 84
p0 0.0159 ± 0.02688
pull
Entries 85
Mean 45.74
Std Dev 29.82
pull1D
Entries 85
Mean −0.01983
Std Dev 1.026

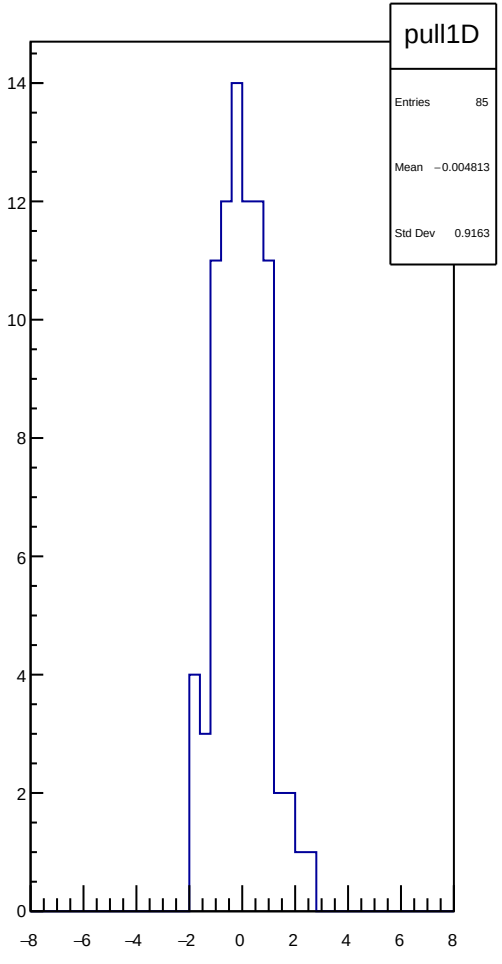

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 2.674e+05 / 84
p0 22.29 ± 0.01901
70
60
50
40
30
20
10

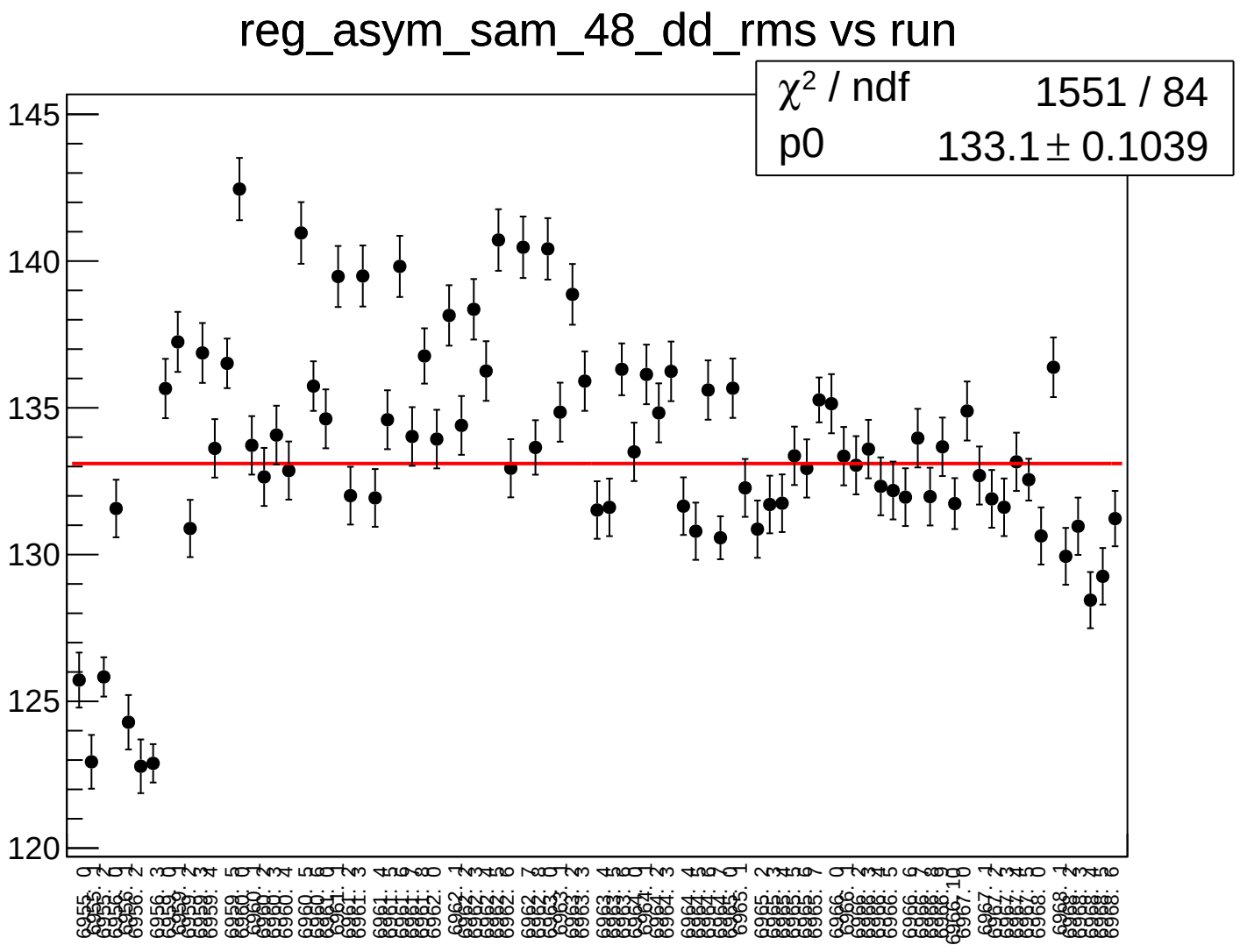

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74 / 84
p0 2.542e−14 ± 1.289e−14
pull
Entries 85
Mean 26.99
Std Dev 29.9

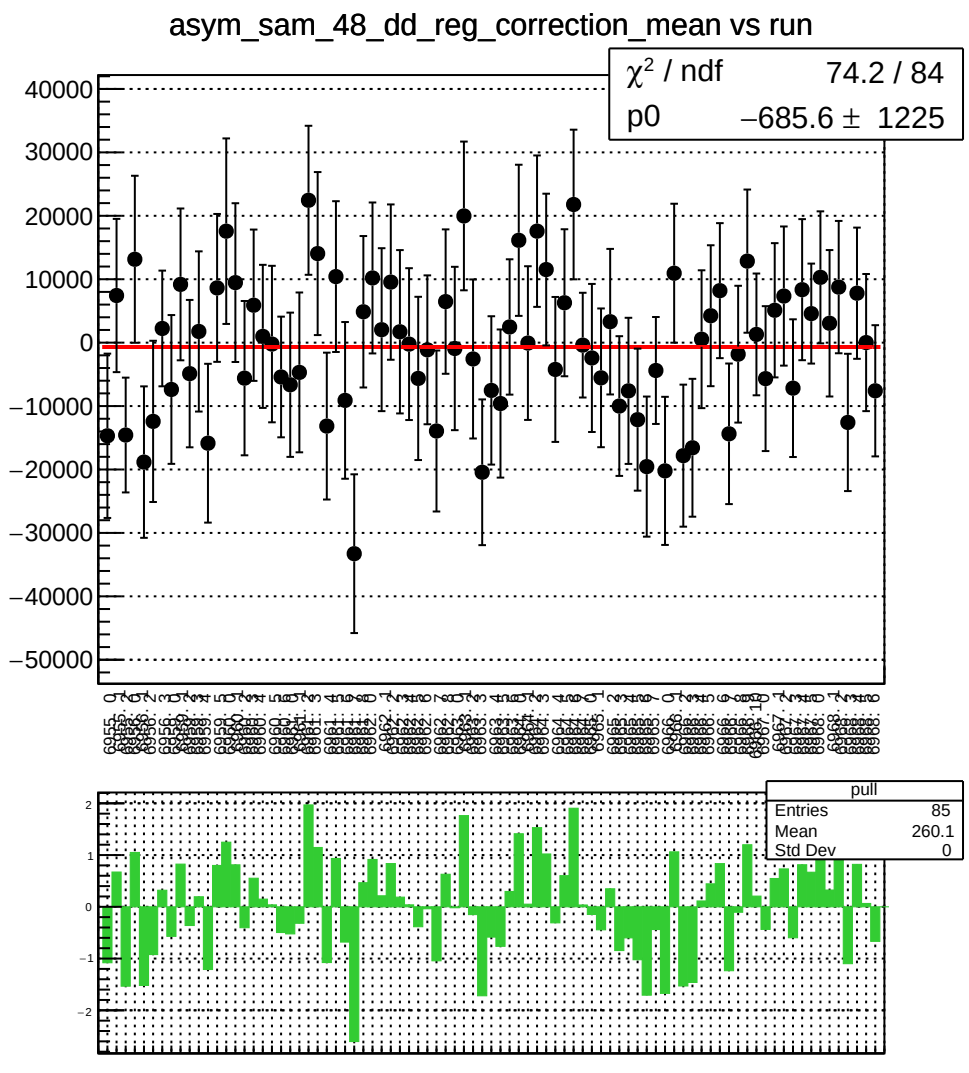

pull1D
Entries 85
Mean 0.07213
Std Dev 0.9303

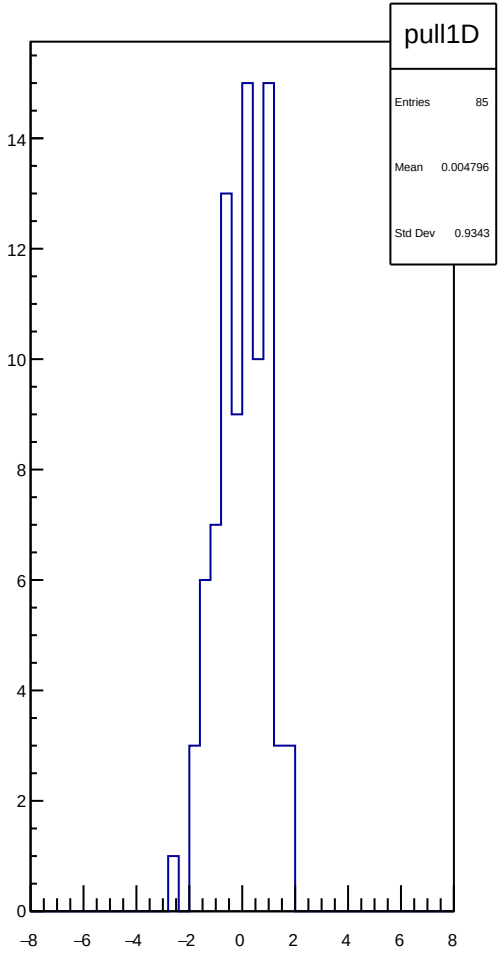

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.937e+05 / 84
p0 9.772e−12 ± 9.117e−15
70
60
50
40
30
20
10

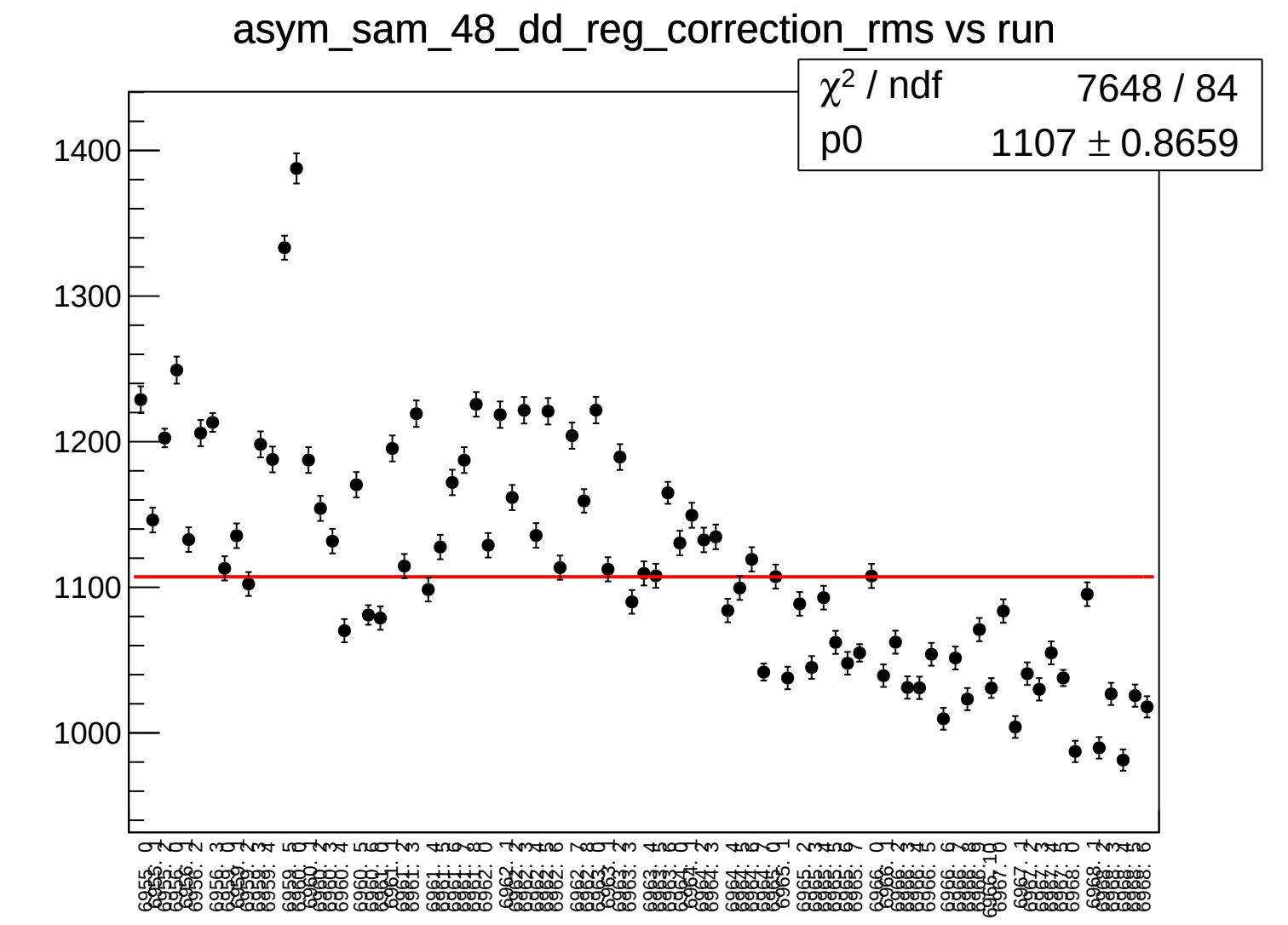

reg_asym_sam_48_dd_mean vs run
χ² / ndf 71.36 / 84
p0 −124.9 ± 146.9
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −55.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

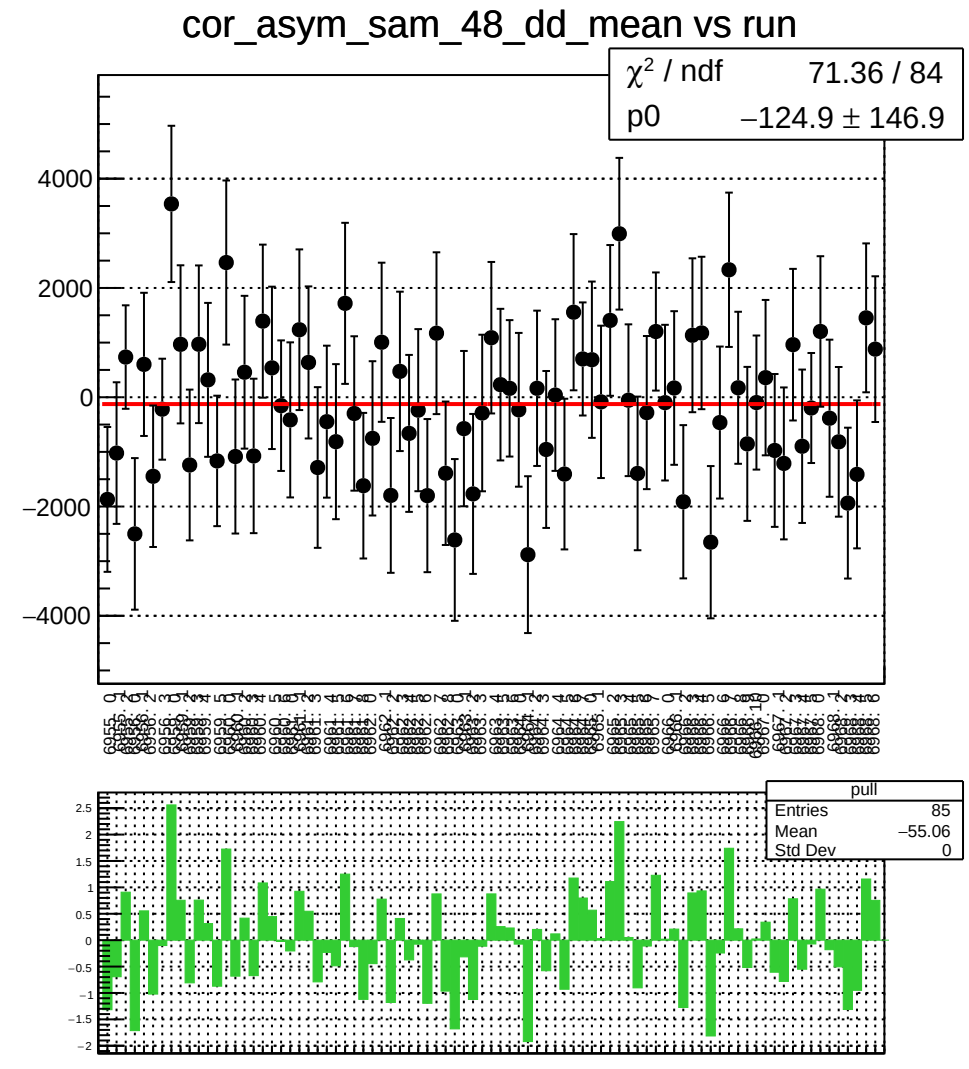

pull1D
Entries 85
Mean −0.004813
Std Dev 0.9163
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

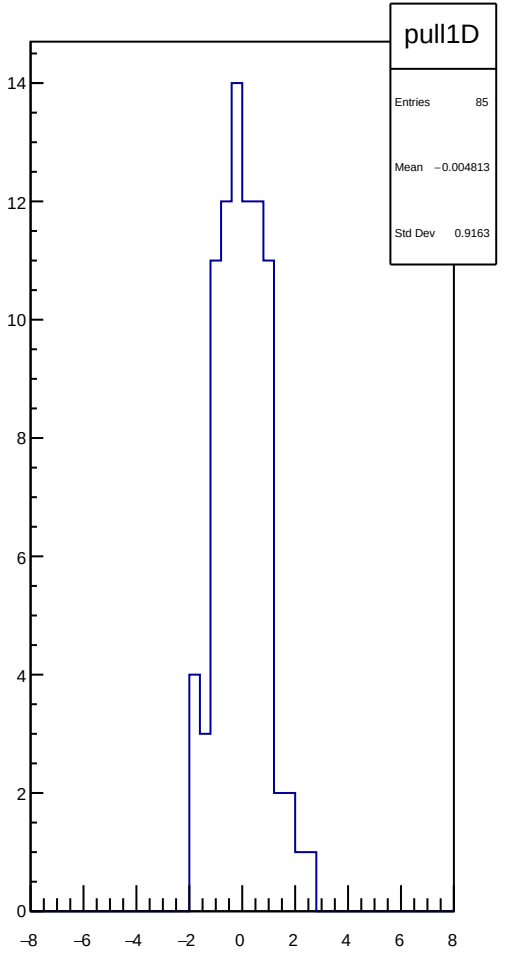

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1551 / 84
p0 133.1 ± 0.1039
145
140
135
130
125
120

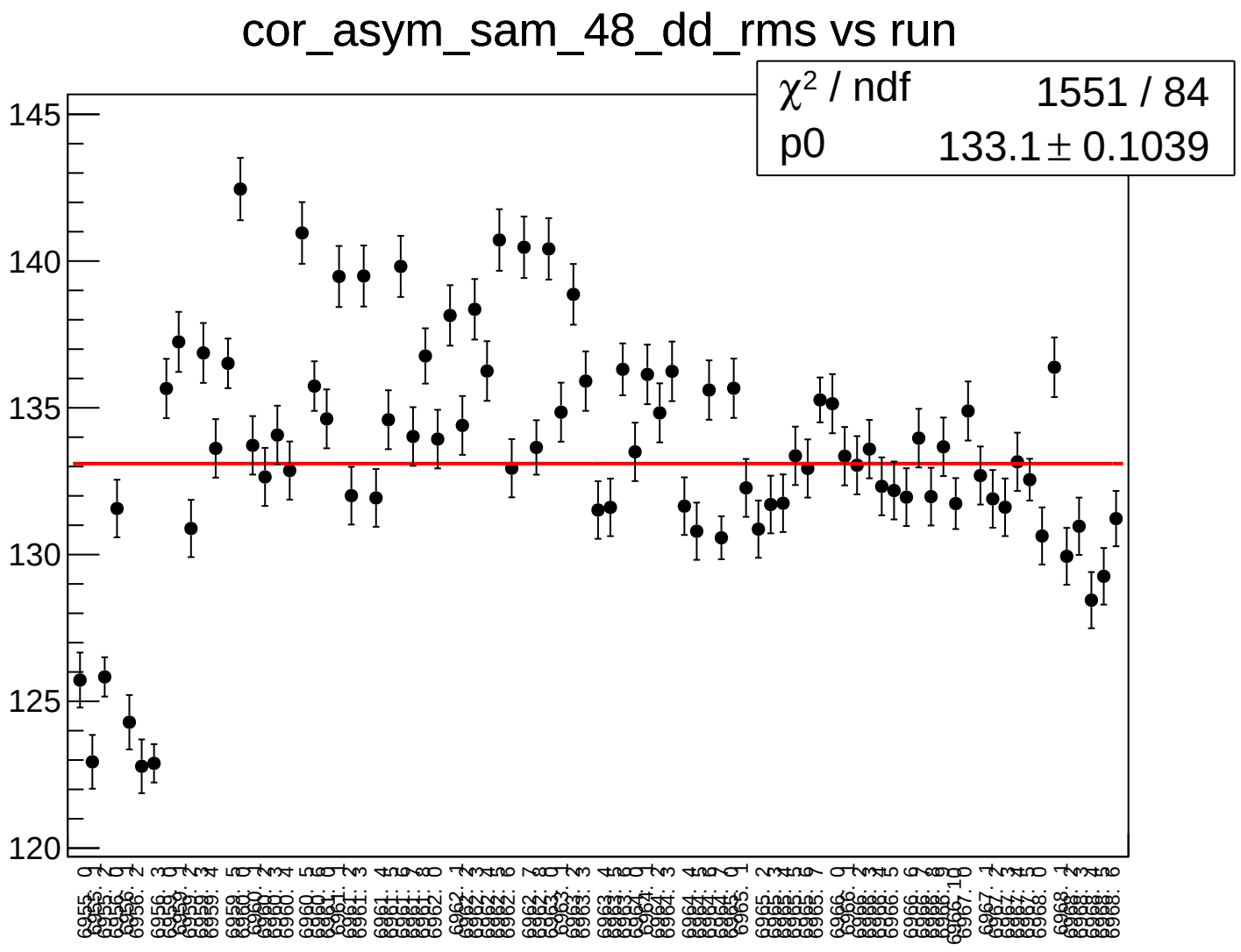

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 74.2 / 84
p0 −685.6 ± 1225
pull
Entries 85
Mean 260.1
Std Dev 0

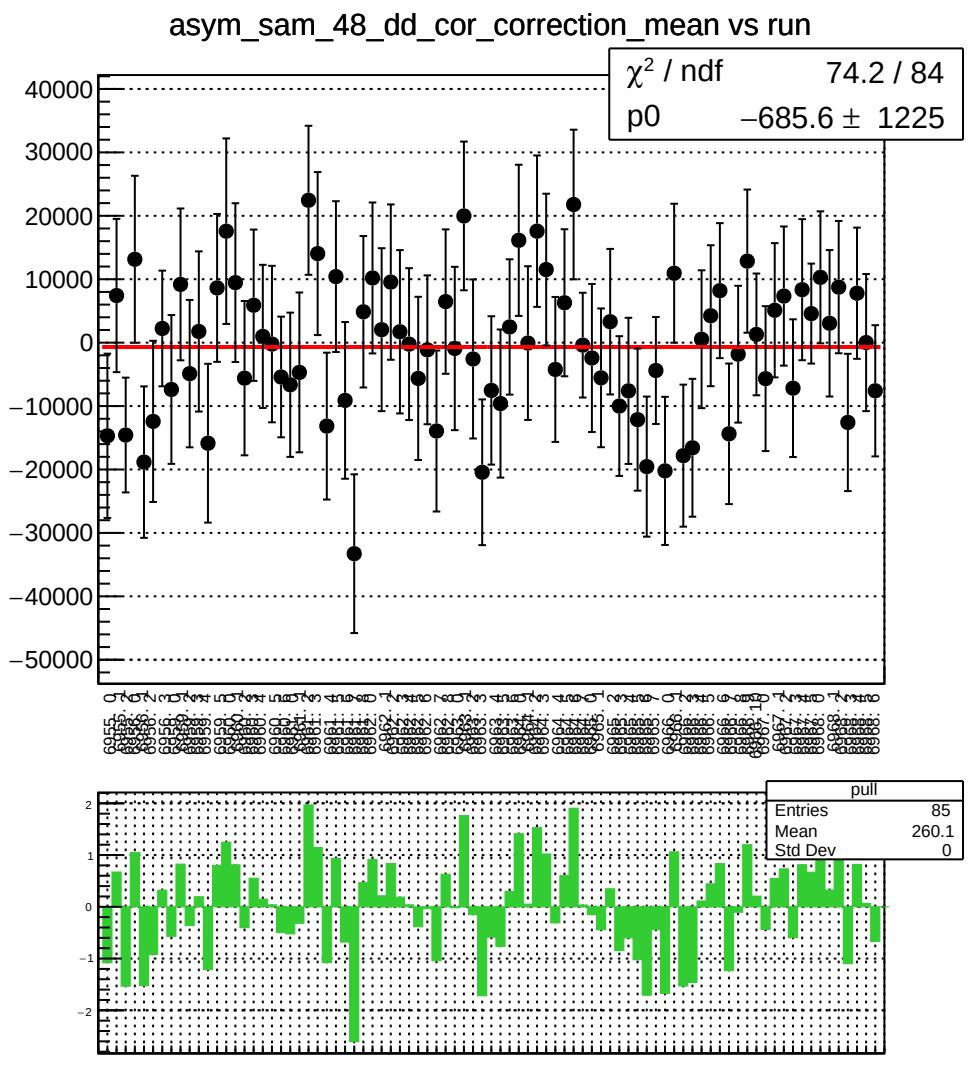

pull1D
Entries 85
Mean 0.004796
Std Dev 0.9343

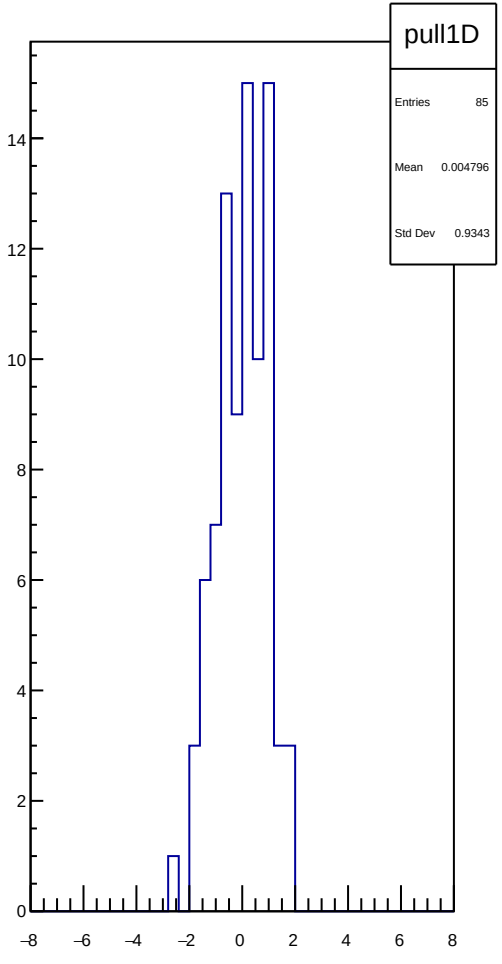

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 7648 / 84
p0 1107 ± 0.8659
1400
1300
1200
1100
1000

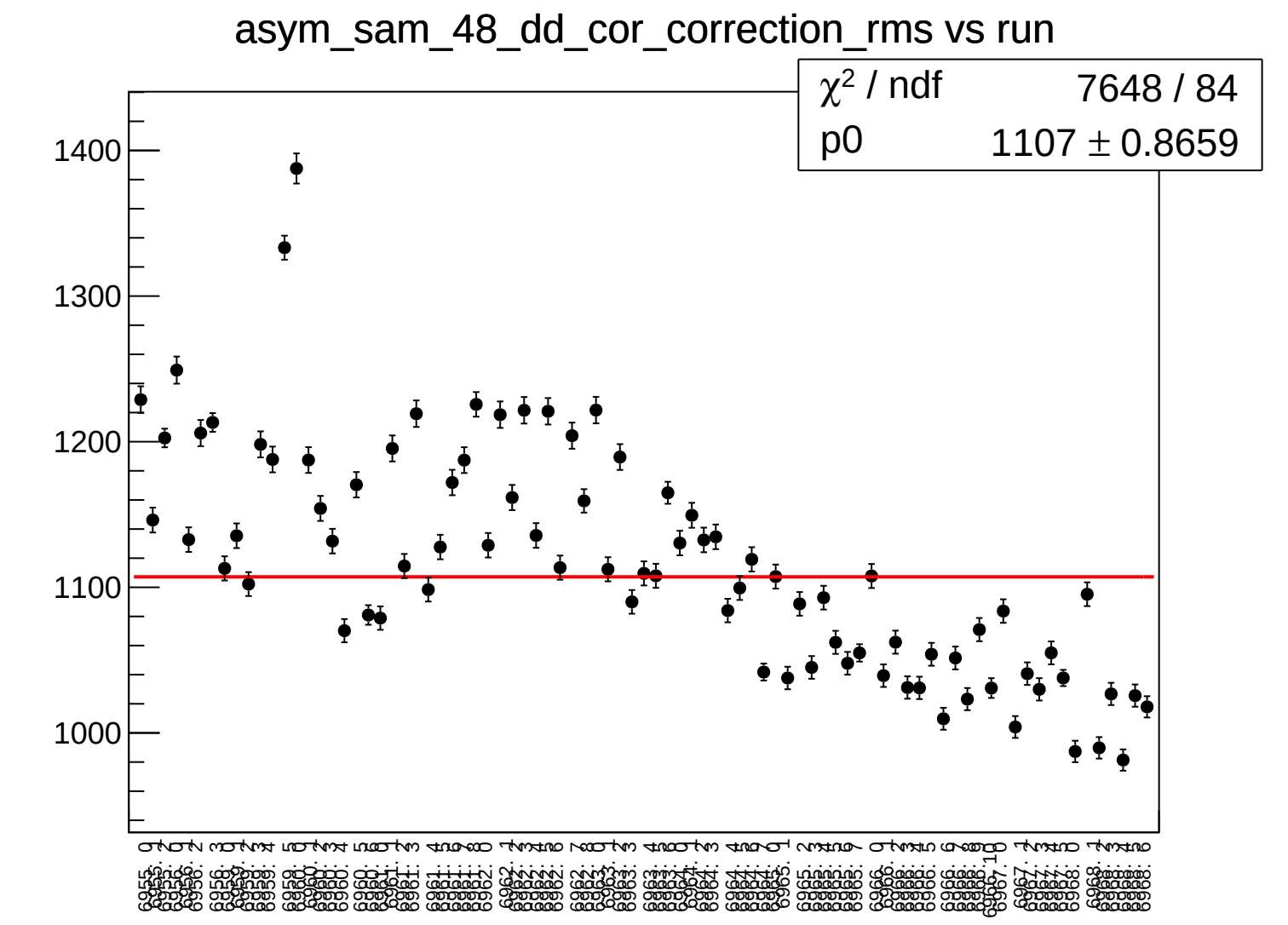

cor_asym_sam_48_dd_mean vs run
χ² / ndf 71.36 / 84
p0 −124.9 ± 146.9
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −55.06
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

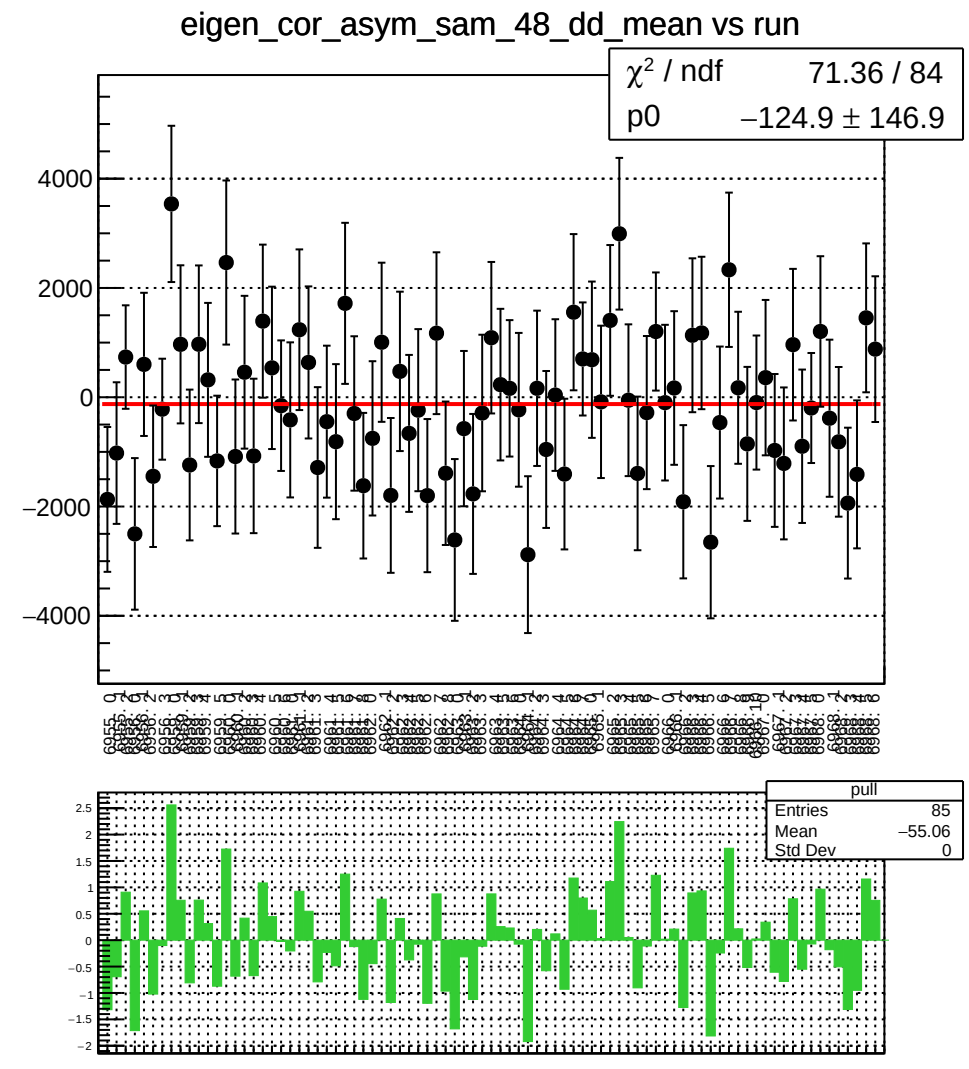

pull1D
Entries 85
Mean −0.004813
Std Dev 0.9163
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

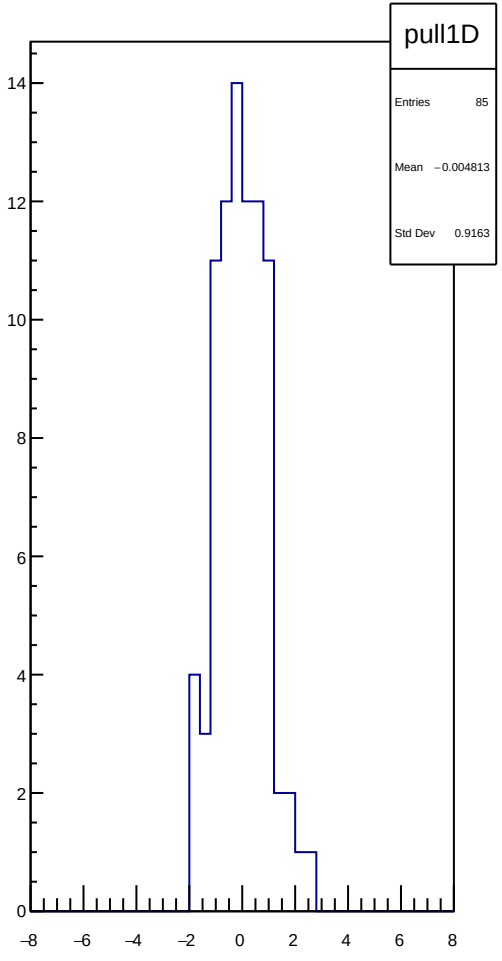

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1551 / 84
p0 133.1 ± 0.1039
145
140
135
130
125
120

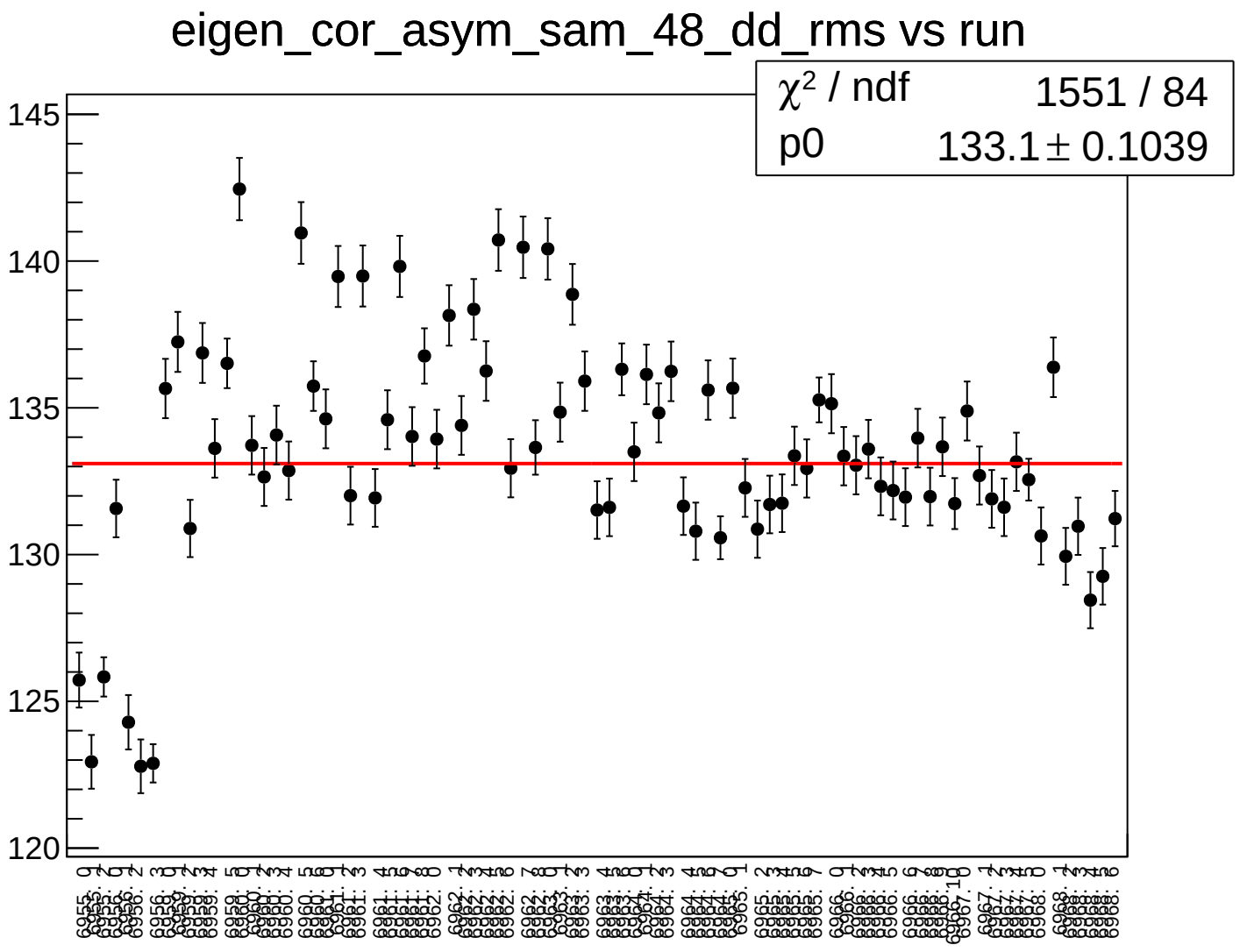

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 74.2 / 84
p0 −685.6 ± 1225
pull
Entries 85
Mean 260.1
Std Dev 0

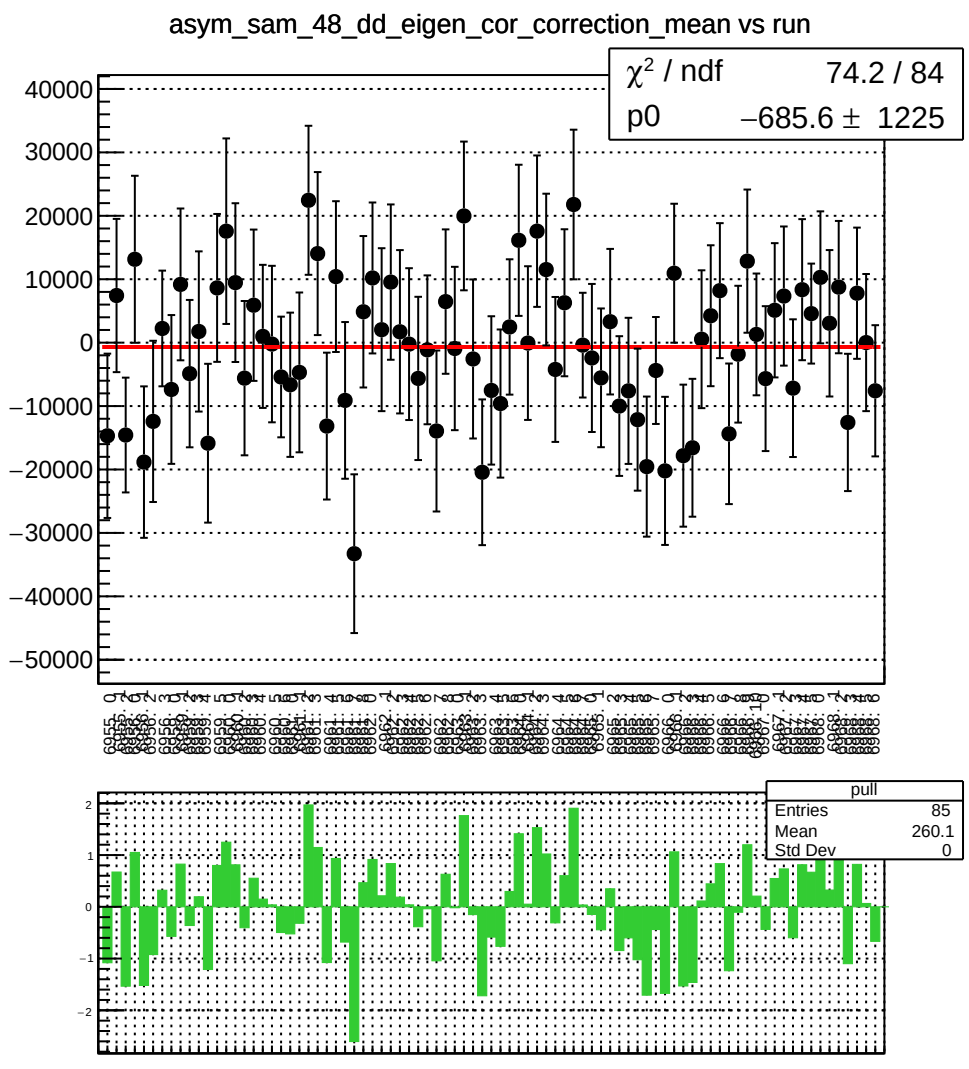

pull1D
Entries 85
Mean 0.004796
Std Dev 0.9343

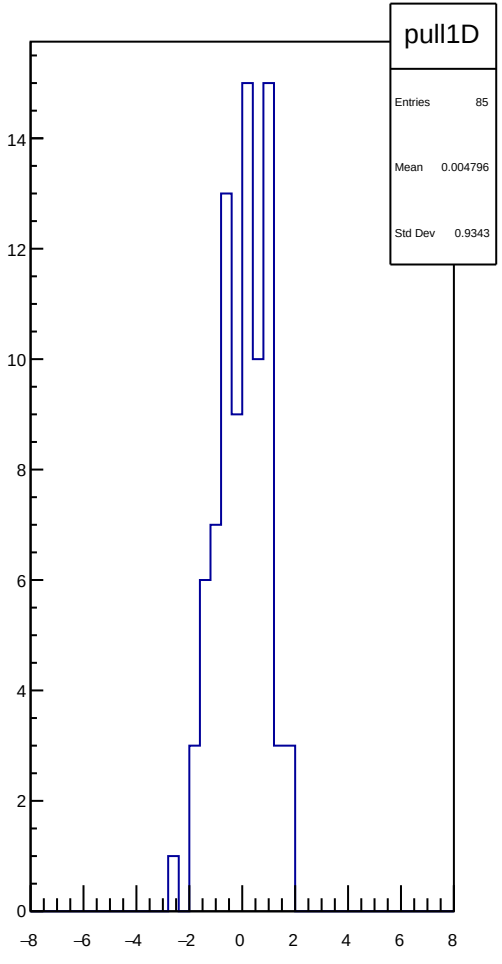

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 7648 / 84
p0 1107 ± 0.8659
1400
1300
1200
1100
1000

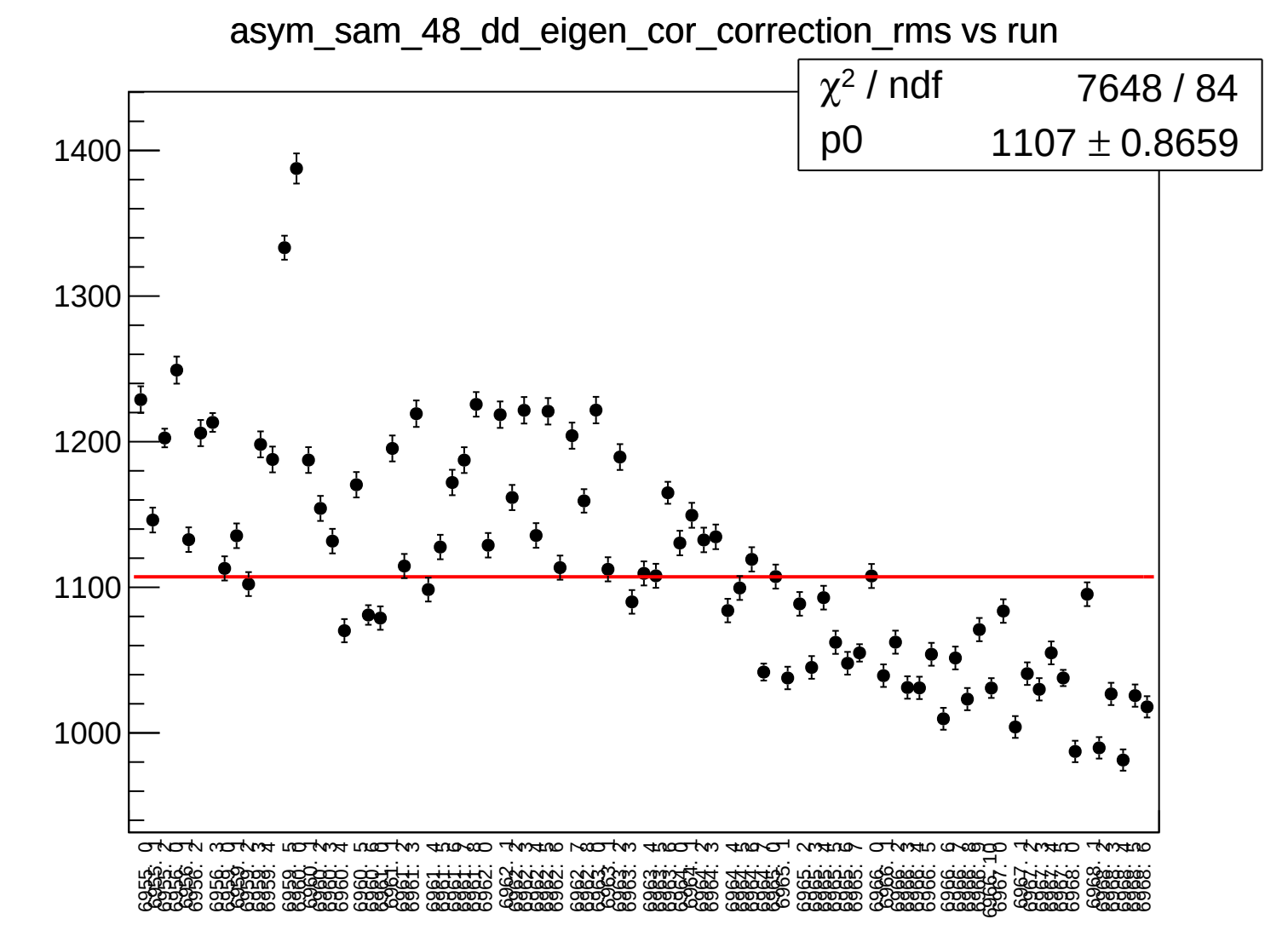

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 71.36 / 84
p0 −124.9 ± 146.9
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −55.06
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

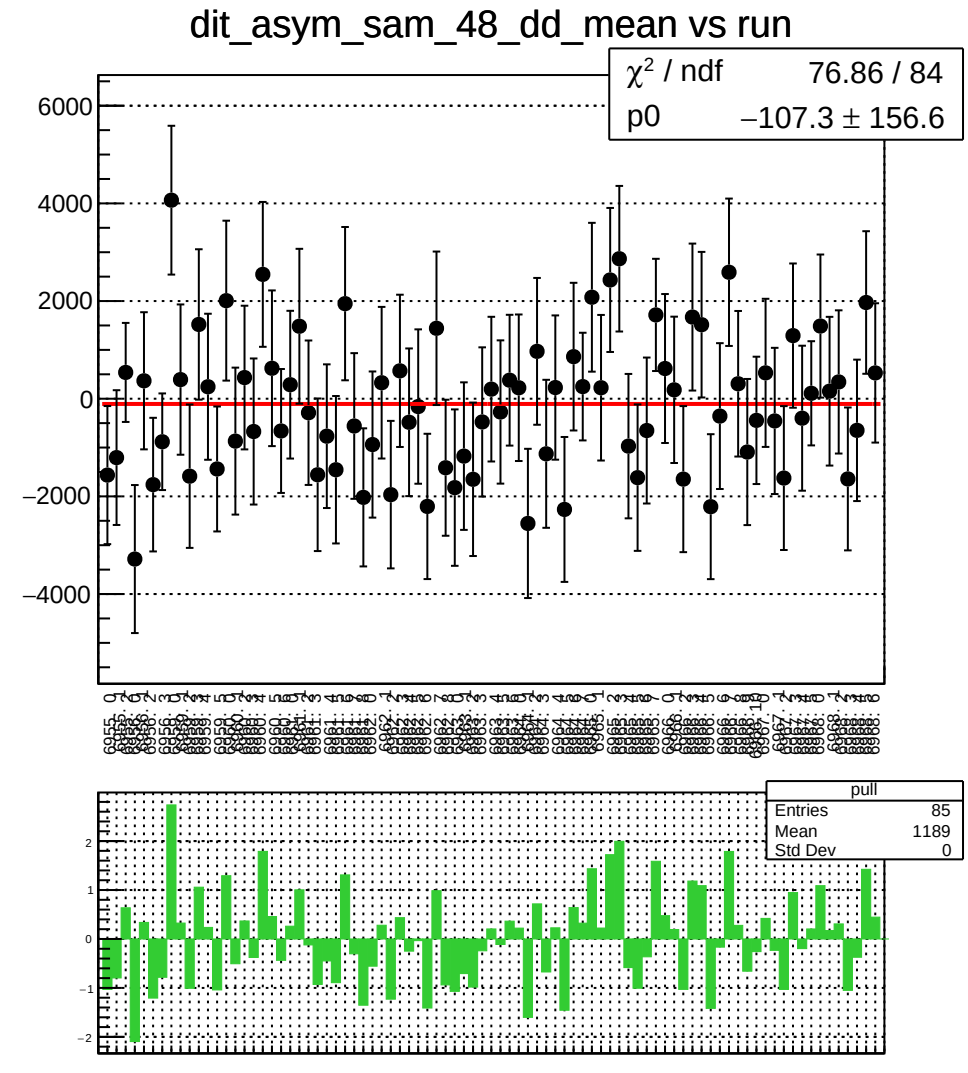

pull1D
Entries 85
Mean −0.004813
Std Dev 0.9163
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

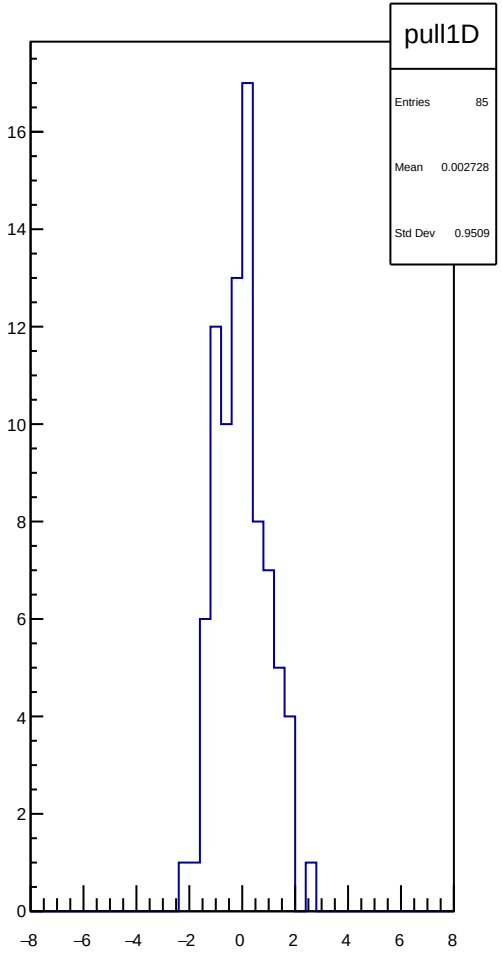

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1551 / 84
p0 133.1 ± 0.1039
145
140
135
130
125
120

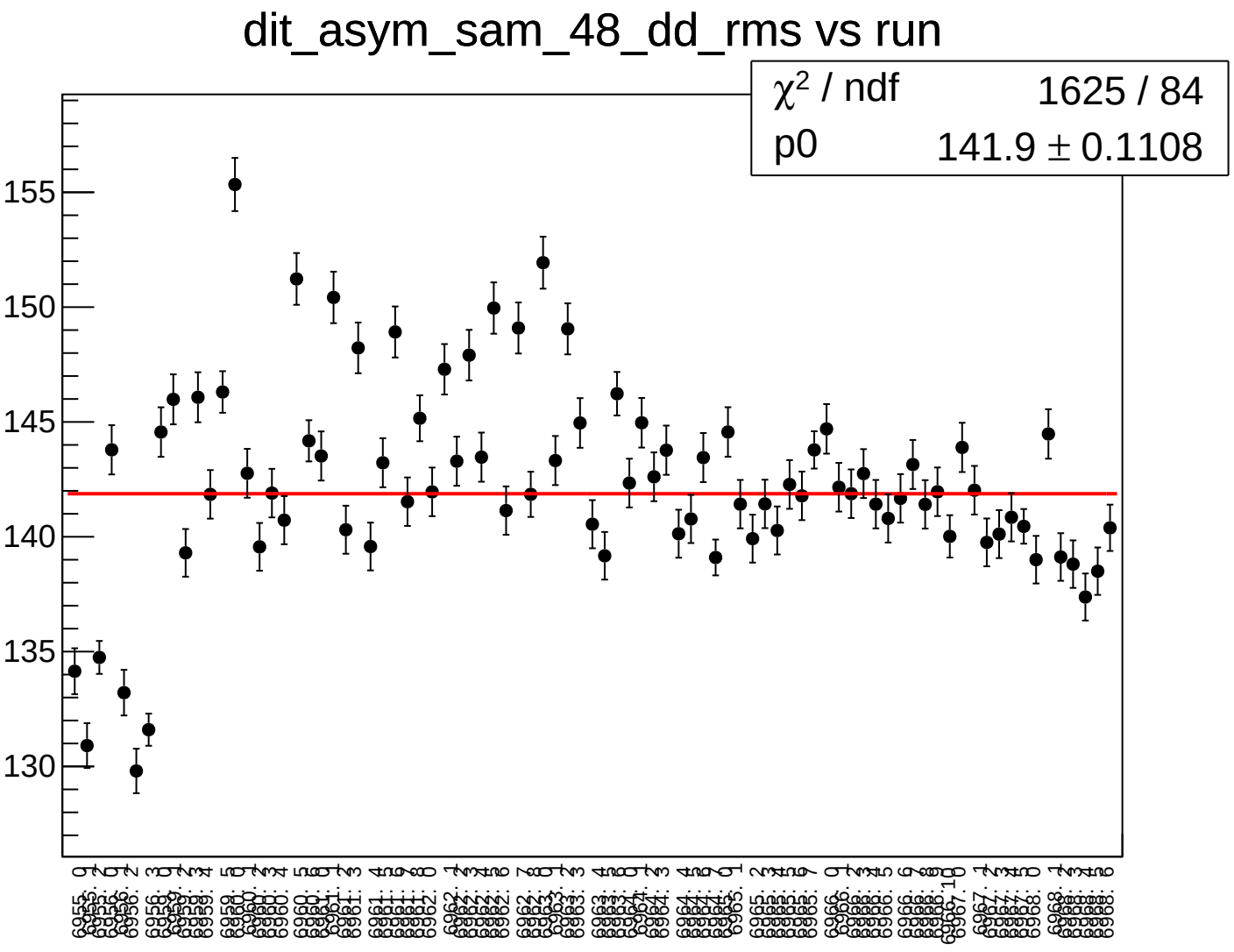

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.2 / 84
p0 −685.6 ± 1225
pull
Entries 85
Mean 260.1
Std Dev 0

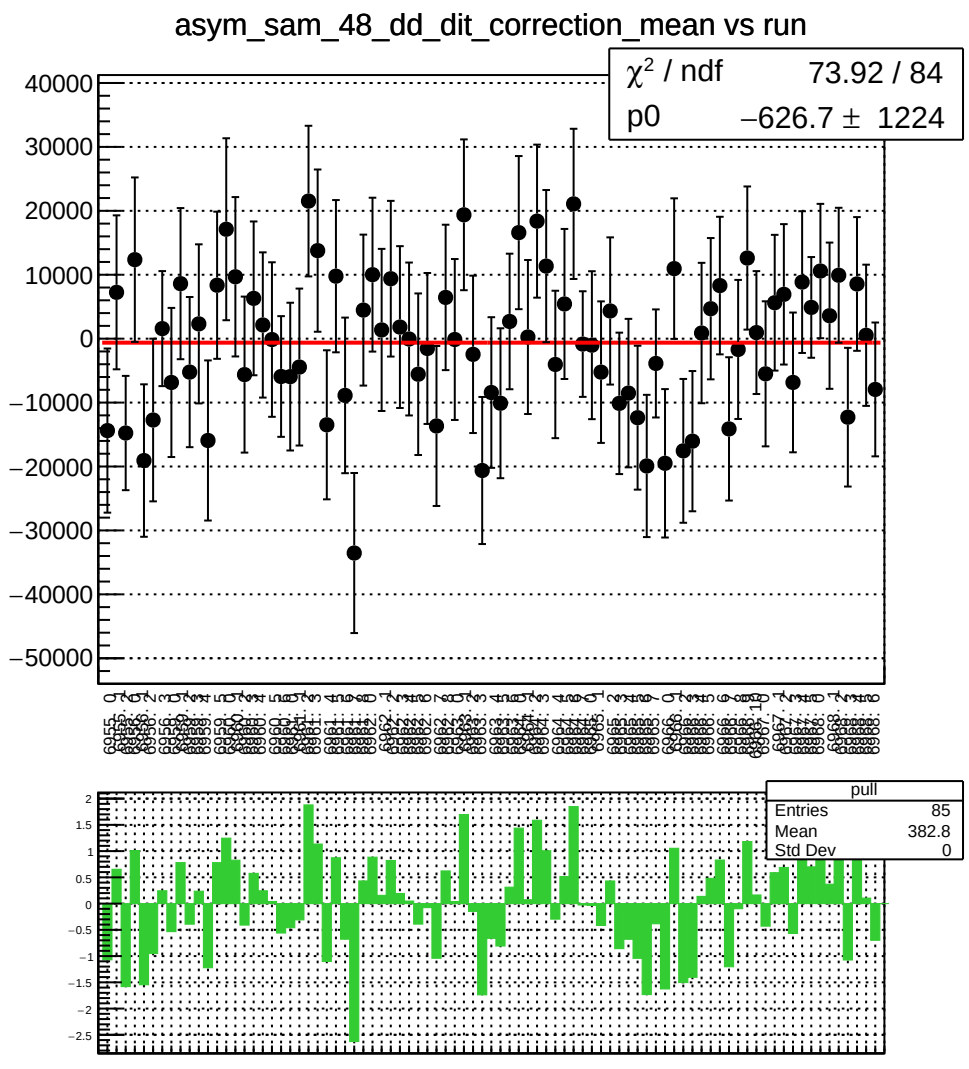

pull1D
Entries 85
Mean 0.004796
Std Dev 0.9343

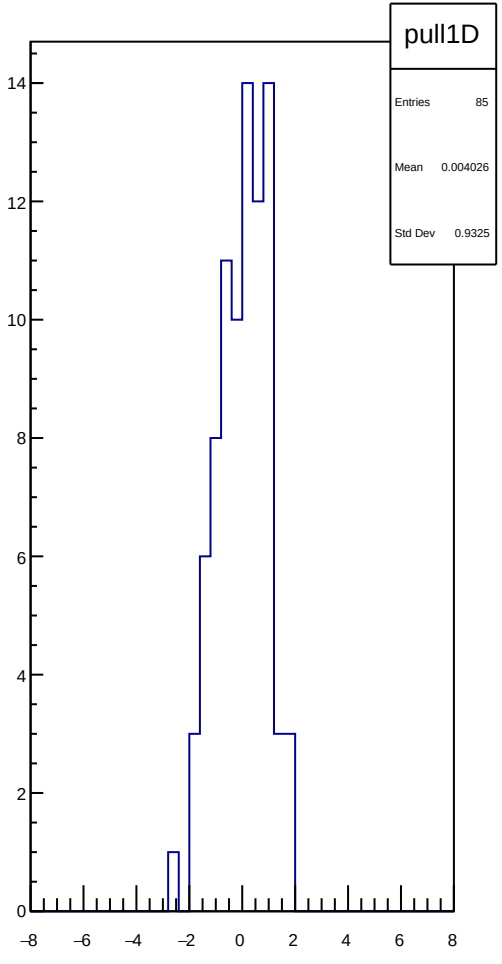

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7648 / 84
p0 1107 ± 0.8659
1400
1300
1200
1100
1000

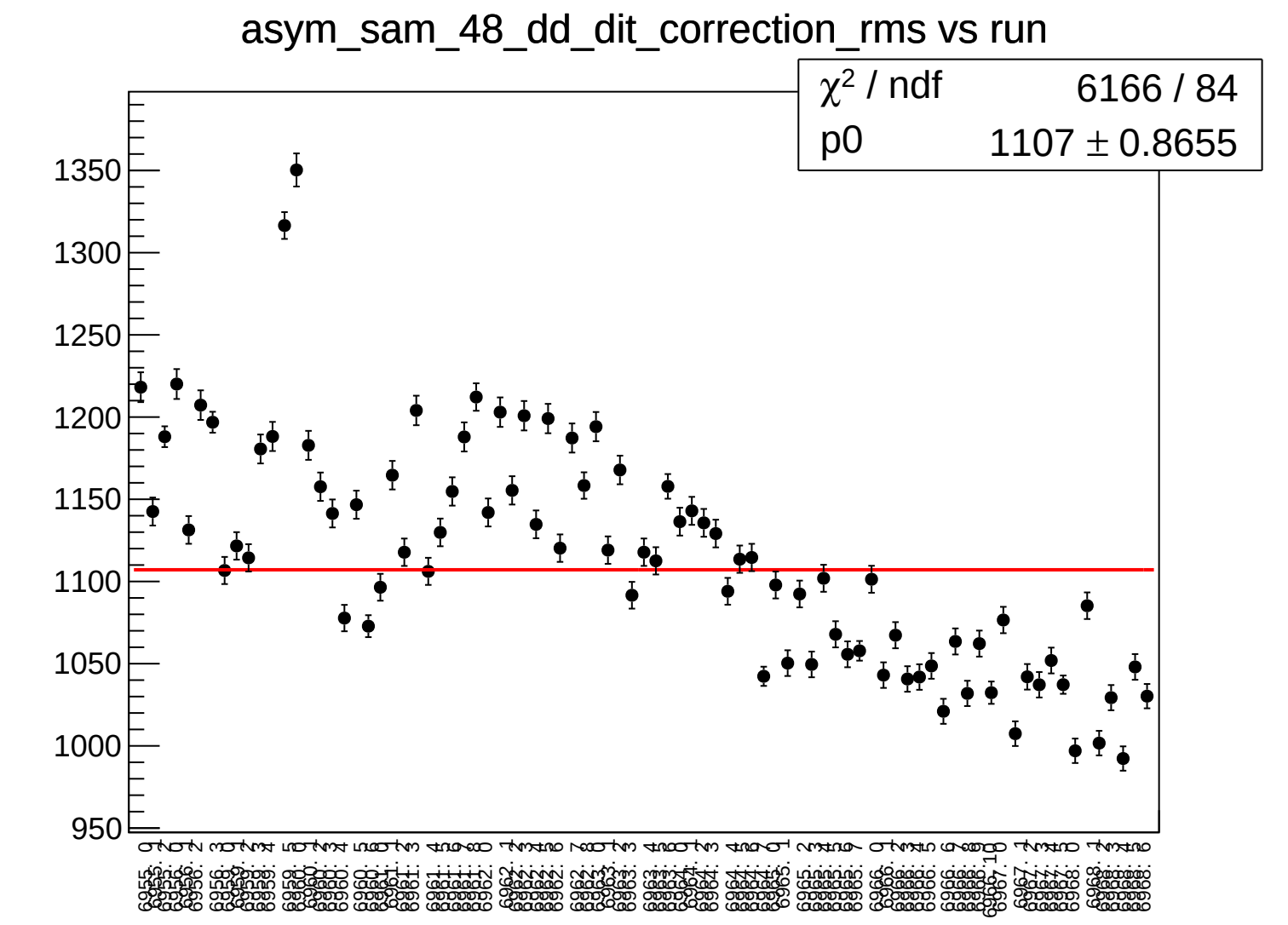

dit_asym_sam_48_dd_mean vs run
χ² / ndf 76.86 / 84
p0 −107.3 ± 156.6
pull
Entries 85
Mean 1189
Std Dev 0

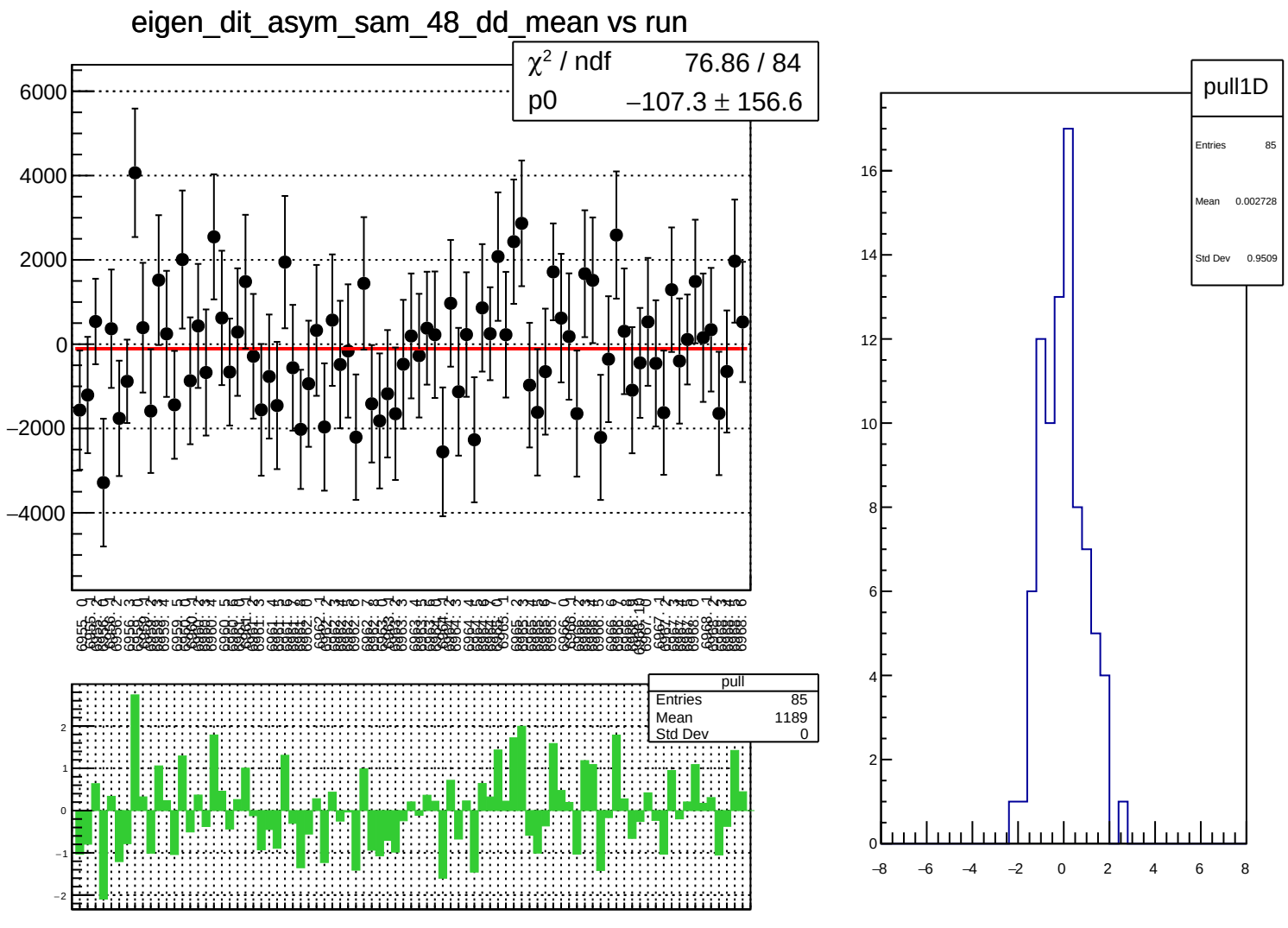

pull1D
Entries 85
Mean 0.002728
Std Dev 0.9509

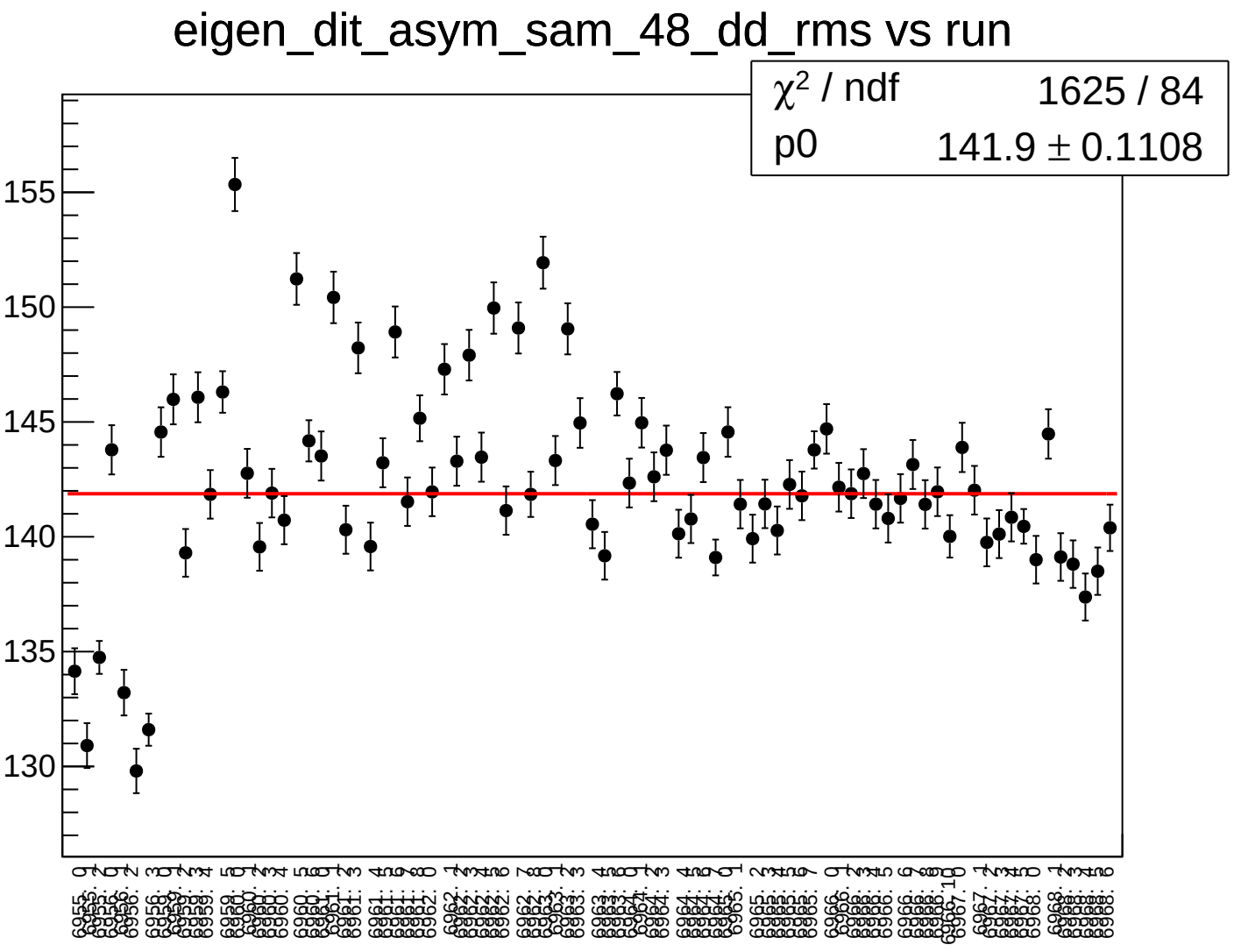

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1625 / 84
p0 141.9 ± 0.1108
155
150
145
140
135
130

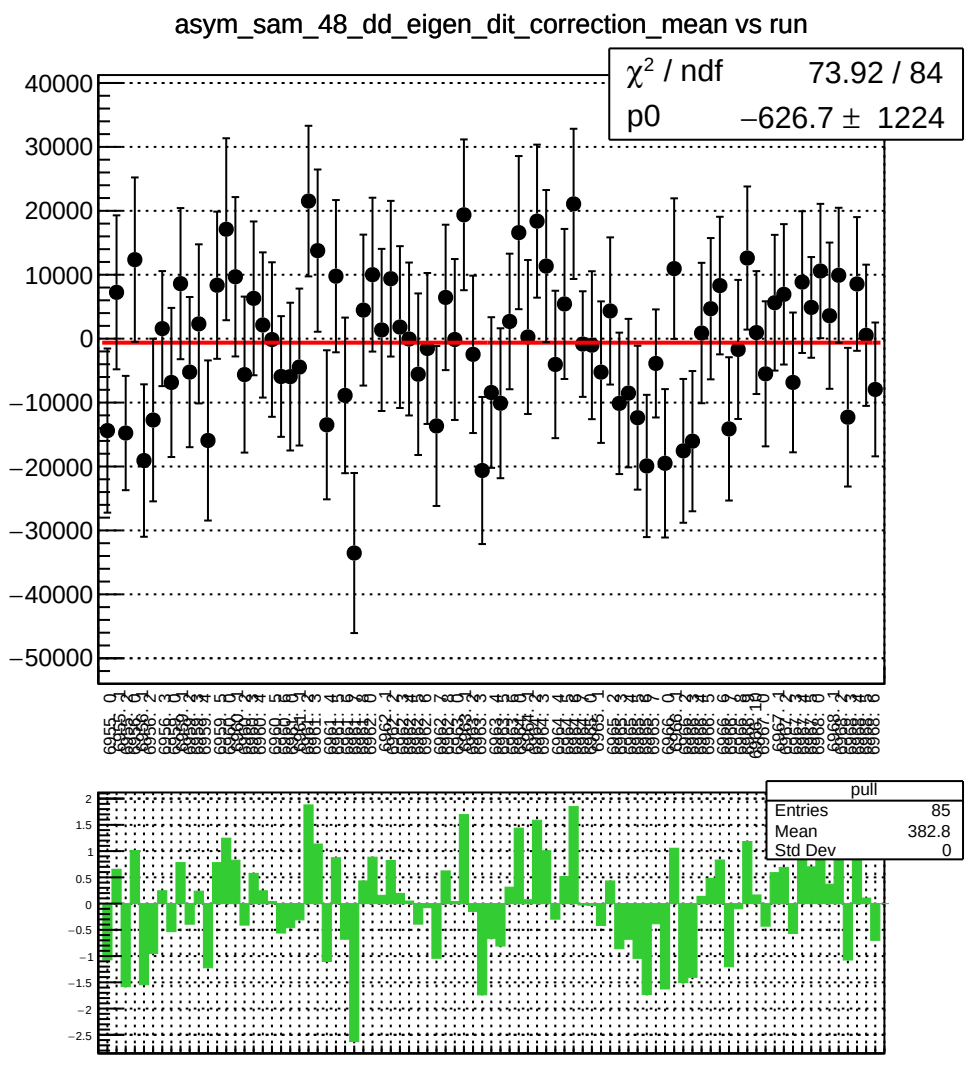

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 73.92 / 84
p0 −626.7 ± 1224
pull
Entries 85
Mean 382.8
Std Dev 0

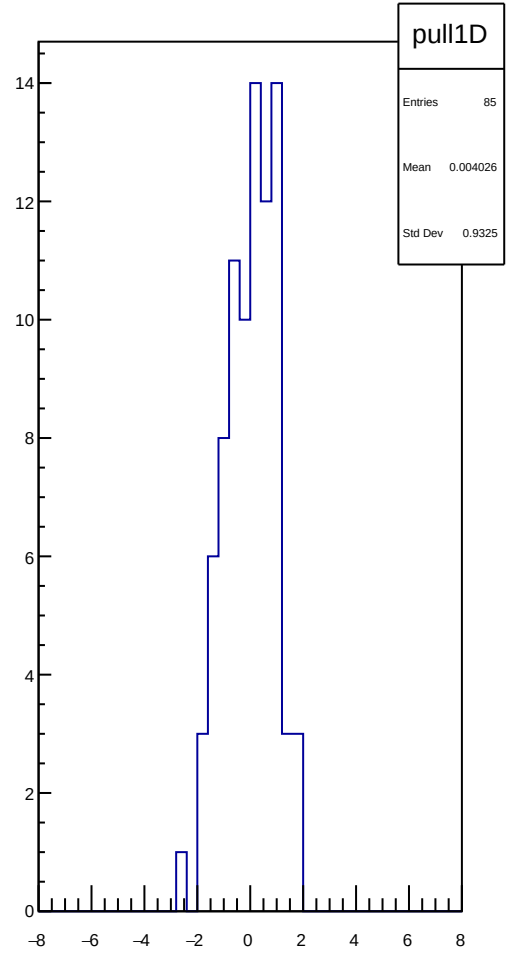

pull1D
Entries 85
Mean 0.004026
Std Dev 0.9325

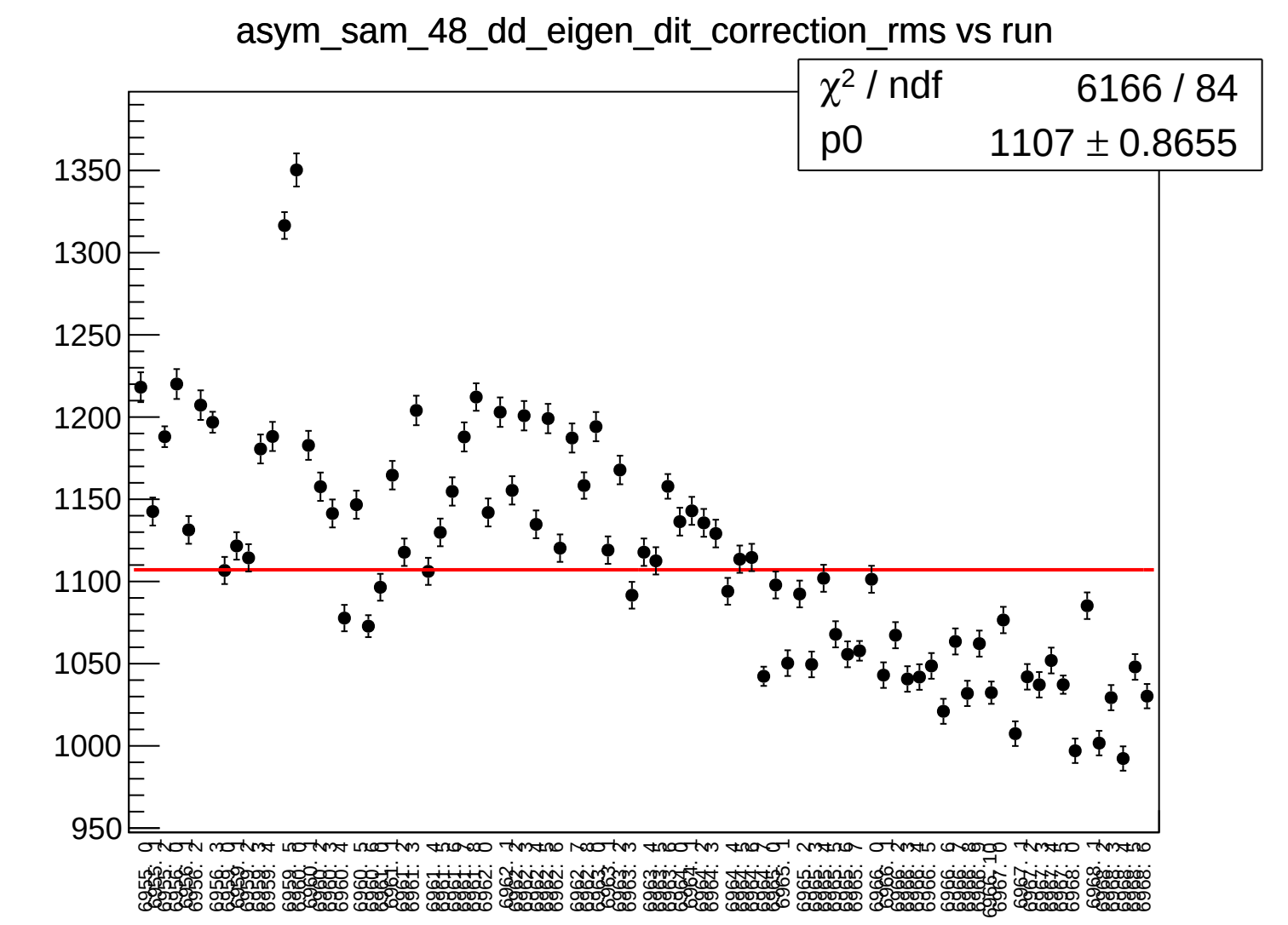

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 6166 / 84
p0 1107 ± 0.8655
1350
1300
1250
1200
1150
1100
1050
1000
950

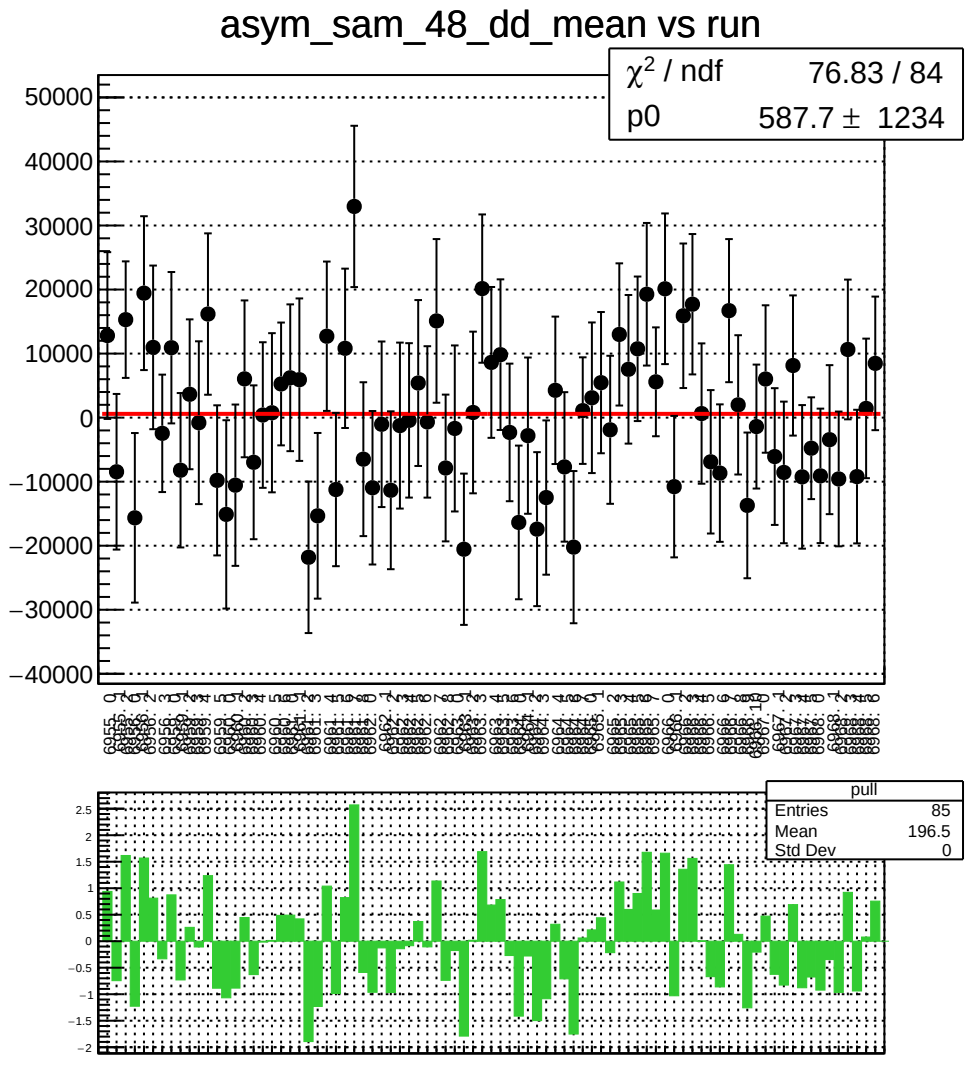

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 76.86 / 84
p0 −107.3 ± 156.6
pull
Entries 85
Mean 1189
Std Dev 0
pull1D
Entries 85
Mean 0.002728
Std Dev 0.9509

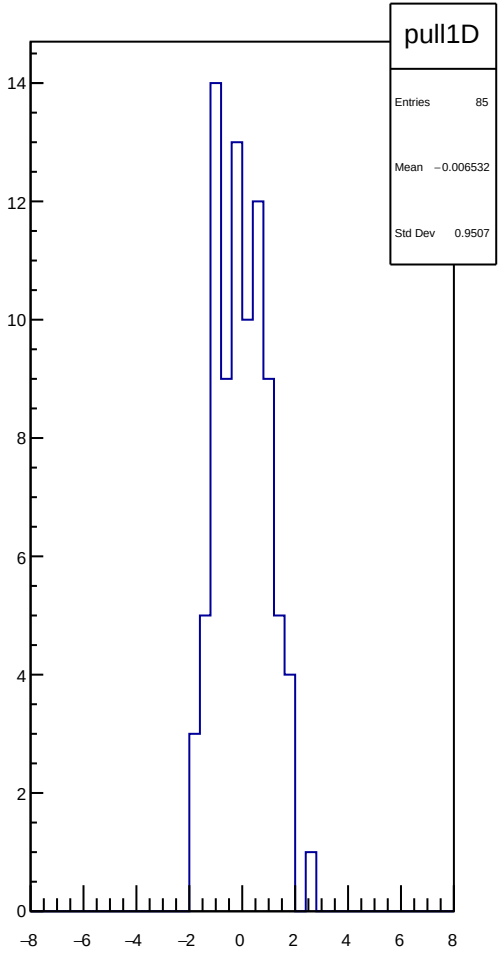

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1625 / 84
p0 141.9 ± 0.1108
155
150
145
140
135
130

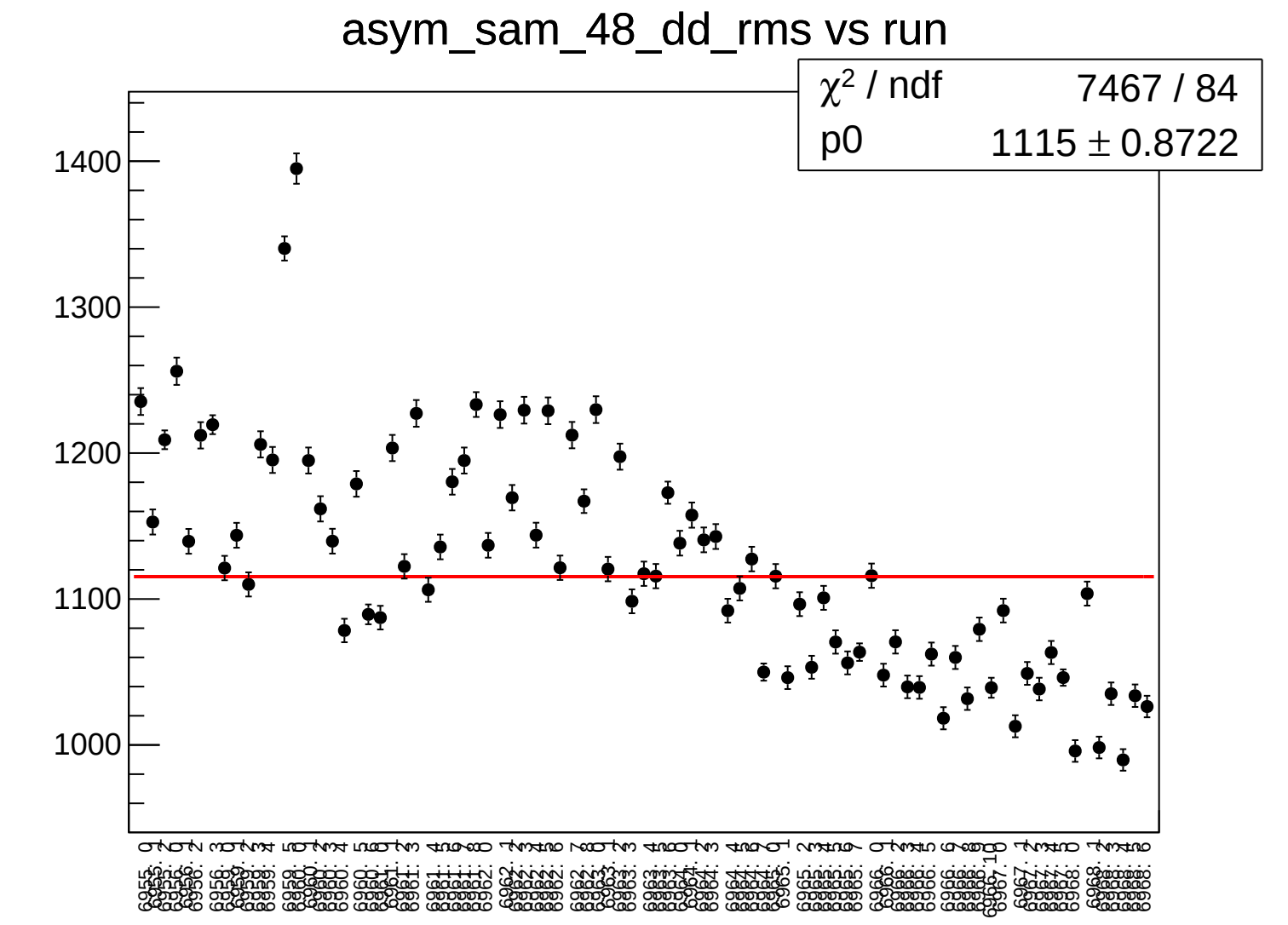

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.92 / 84
p0 −626.7 ± 1224
pull
Entries 85
Mean 382.8
Std Dev 0

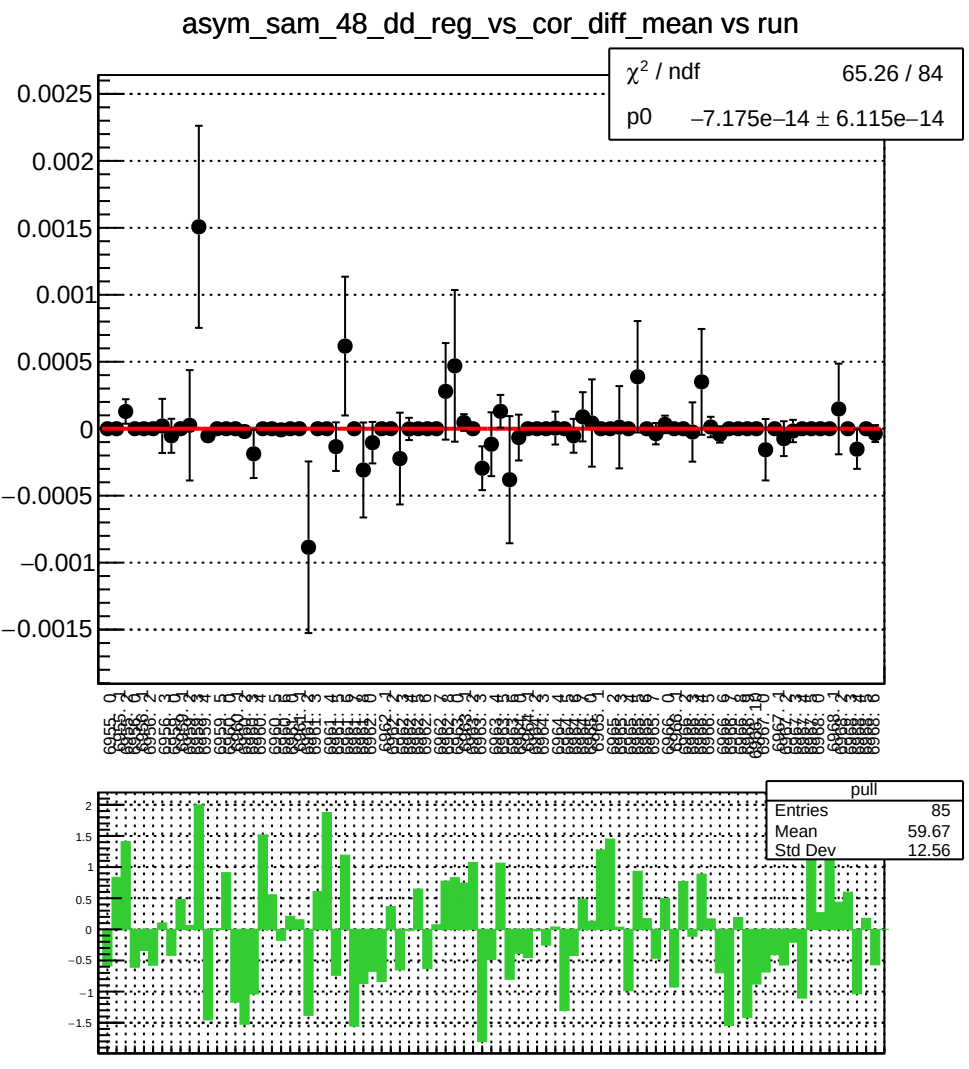

pull1D
Entries 85
Mean 0.004026
Std Dev 0.9325

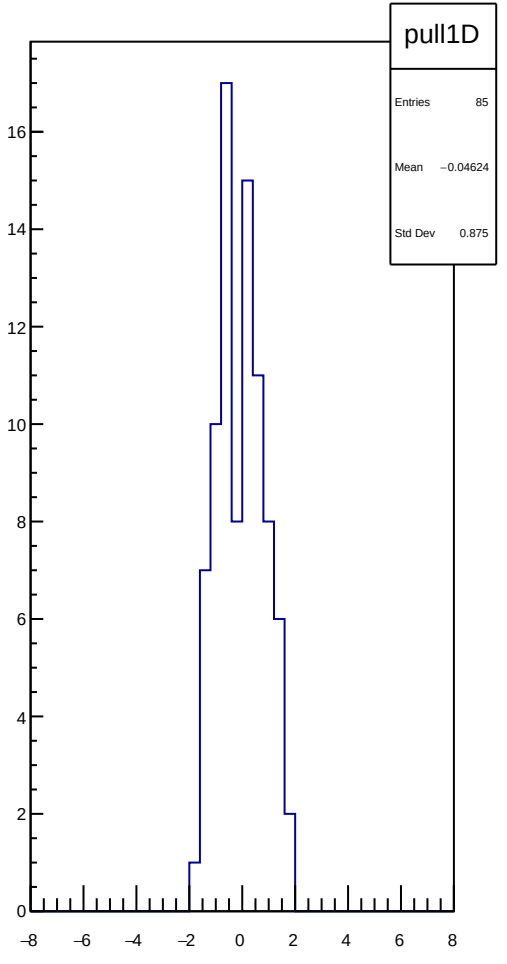

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 6166 / 84
p0 1107 ± 0.8655
1350
1300
1250
1200
1150
1100
1050
1000
950

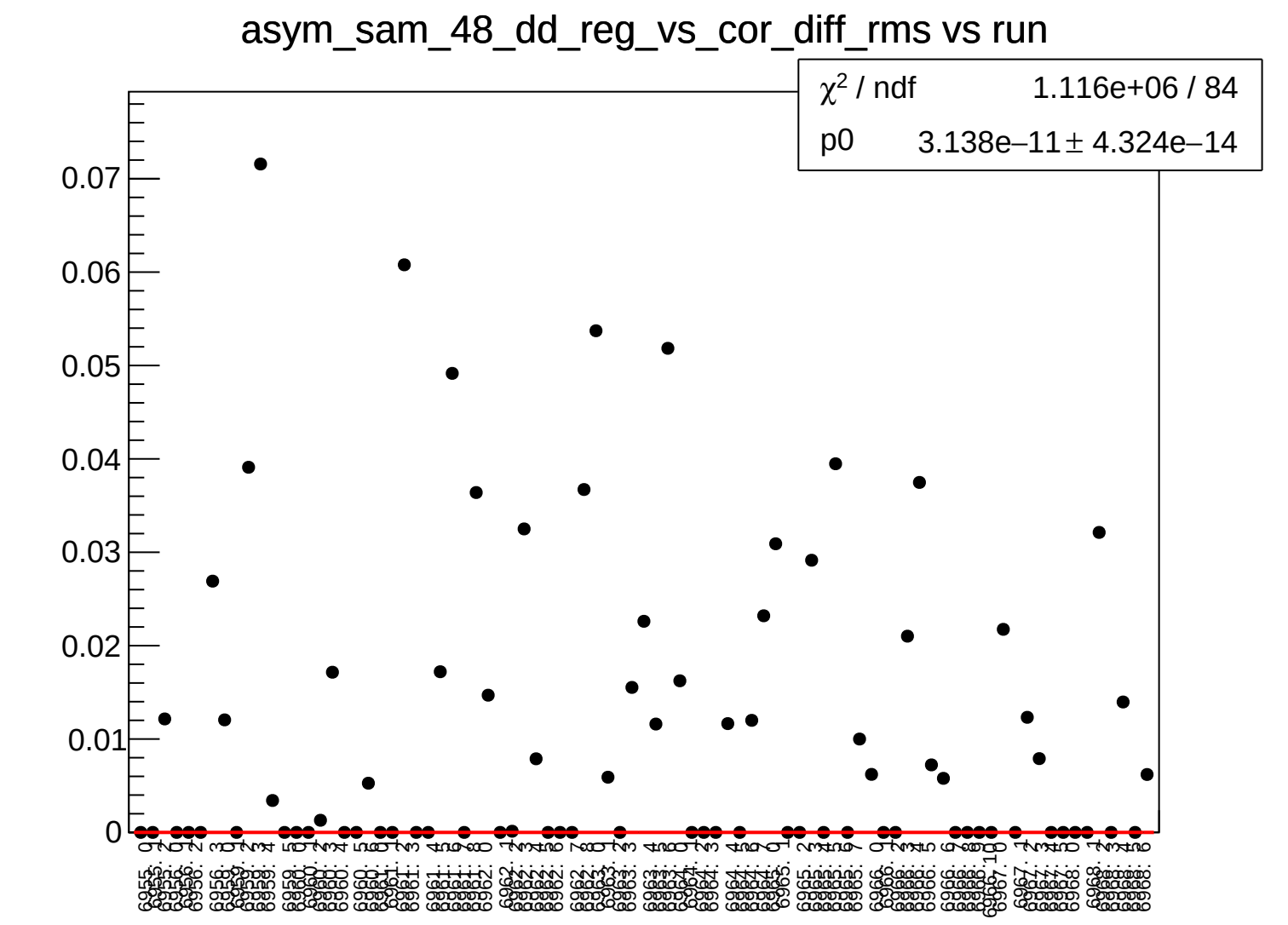

asym_sam_48_dd_mean vs run
χ² / ndf 76.83 / 84
p0 587.7 ± 1234
pull
Entries 85
Mean 196.5
Std Dev 0

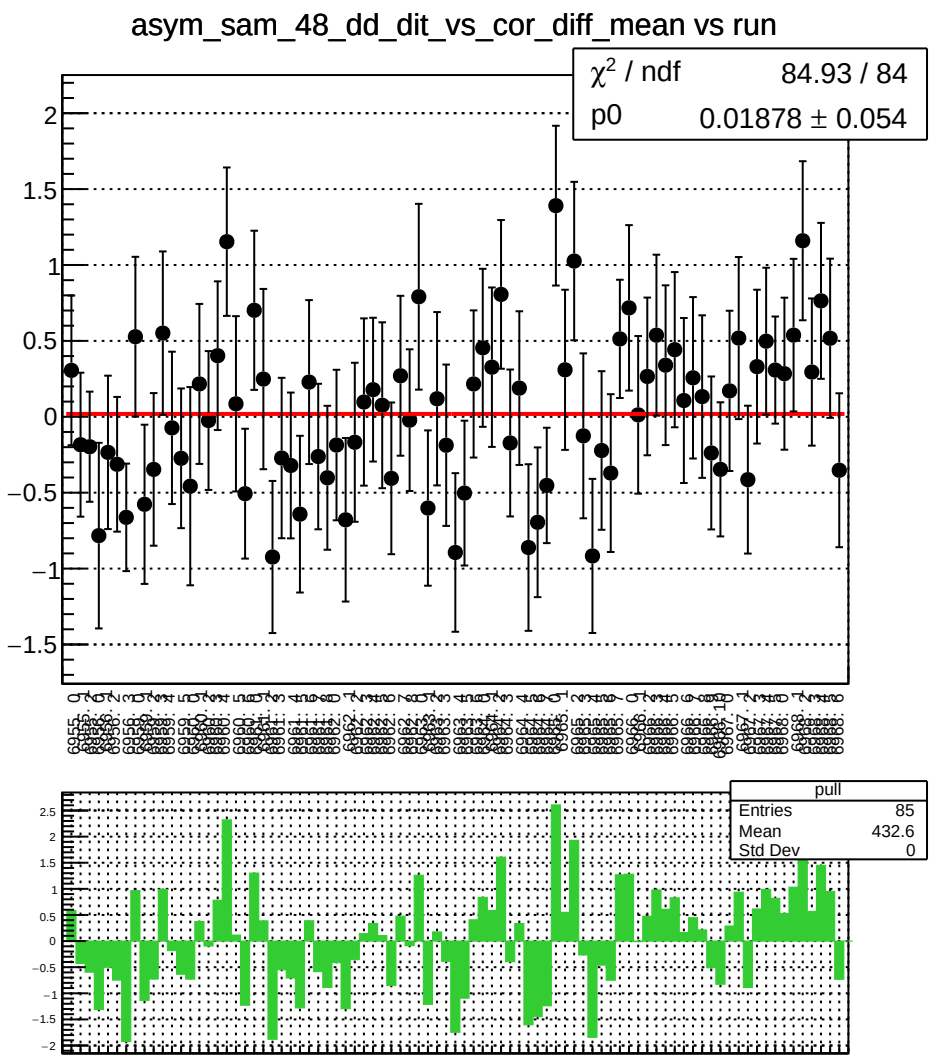

pull1D
Entries 85
Mean −0.006532
Std Dev 0.9507

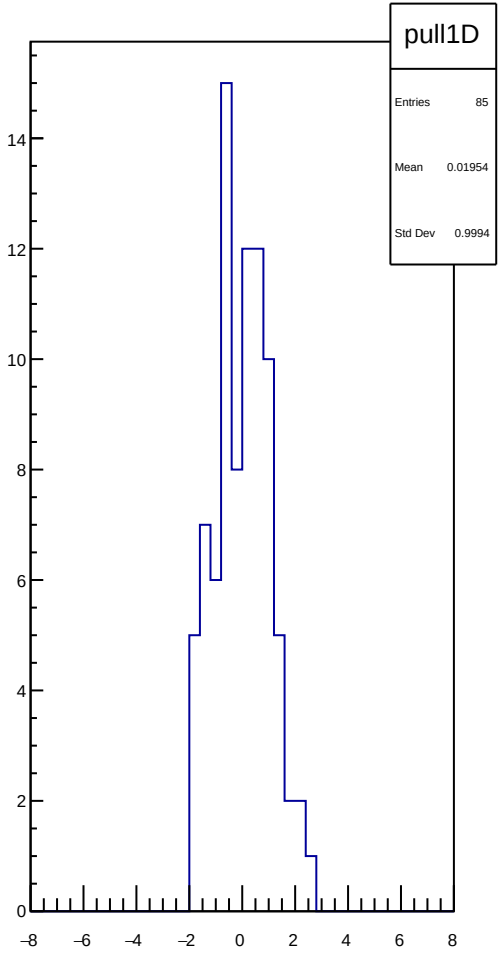

asym_sam_48_dd_rms vs run
χ² / ndf 7467 / 84
p0 1115 ± 0.8722
1400
1300
1200
1100
1000

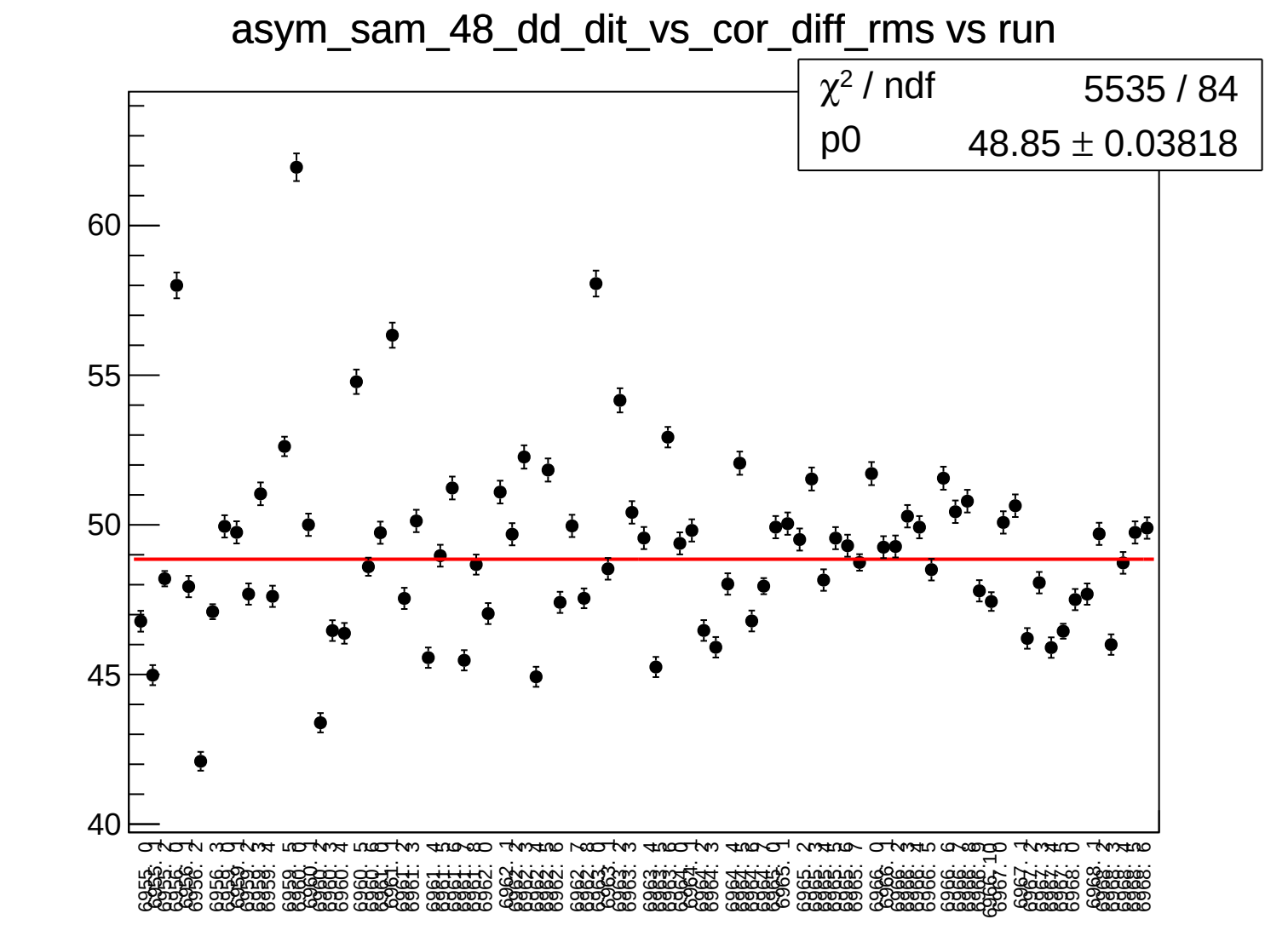

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 65.26 / 84
p0 −7.175e−14 ± 6.115e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 59.67
Std Dev 12.56
2
1.5
1
0.5
0
−0.5
−1
−1.5

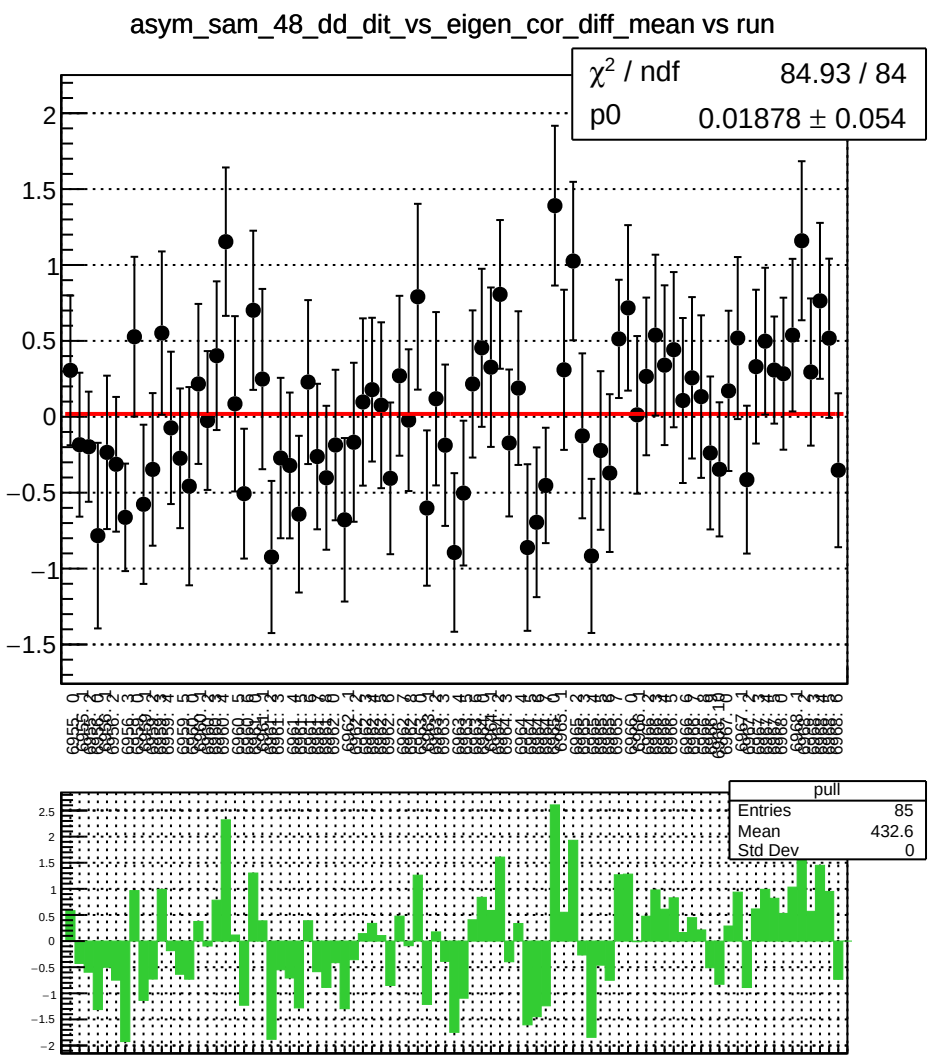

pull1D
Entries 85
Mean −0.04624
Std Dev 0.875
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

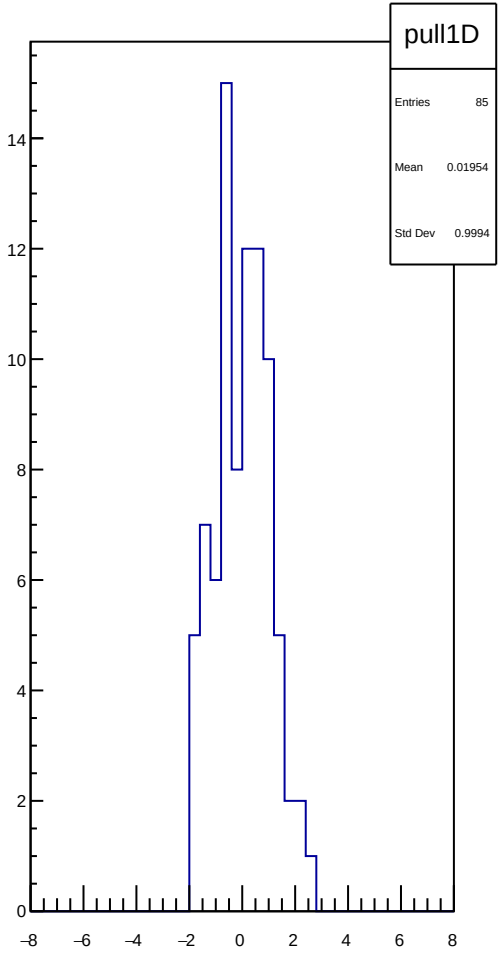

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.116e+06 / 84
p0 3.138e−11 ± 4.324e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

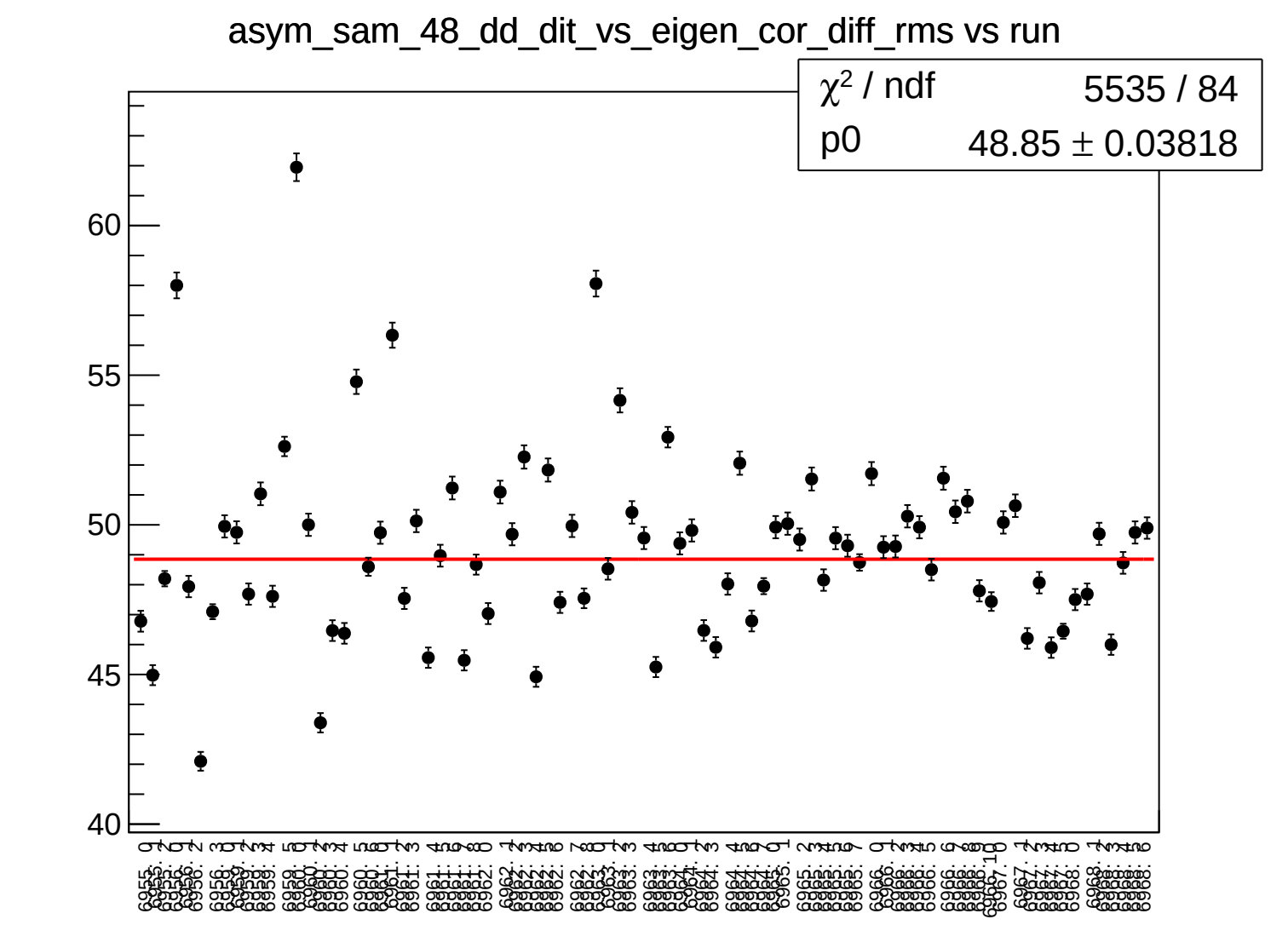

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.93 / 84
p0 0.01878 ± 0.054
pull
Entries 85
Mean 432.6
Std Dev 0

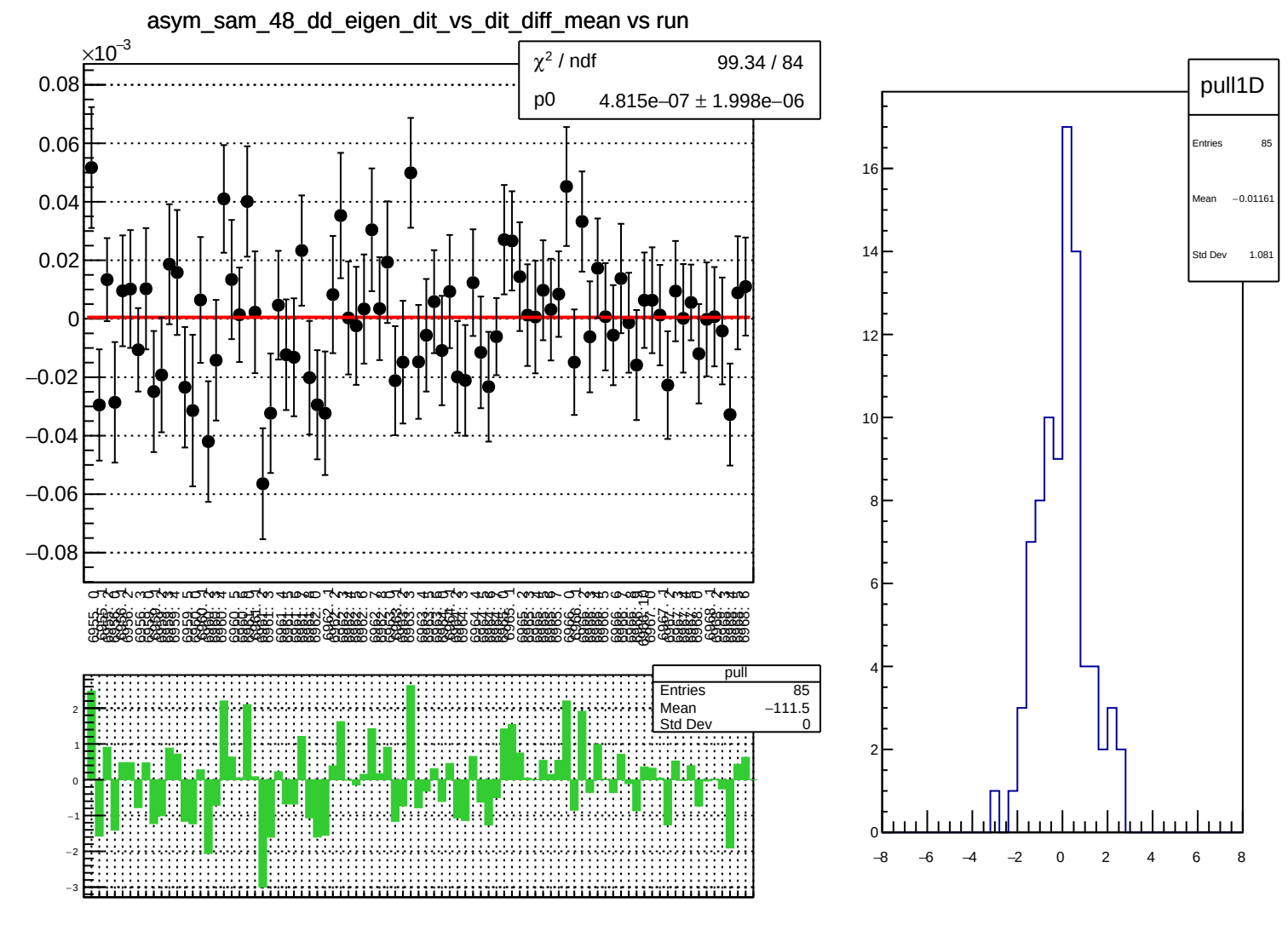

pull1D
Entries 85
Mean 0.01954
Std Dev 0.9994

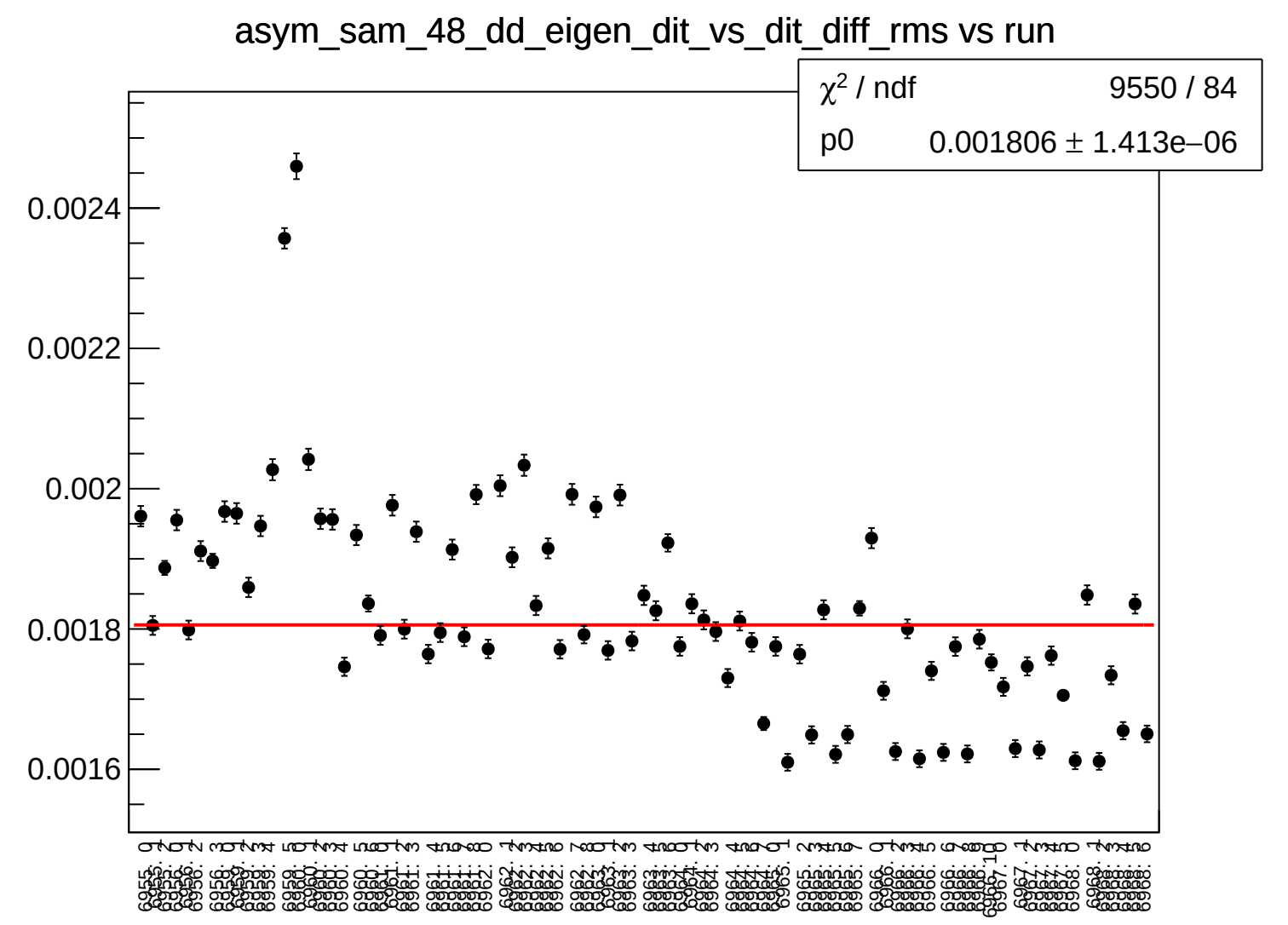

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5535 / 84
p0 48.85 ± 0.03818
60
55
50
45
40

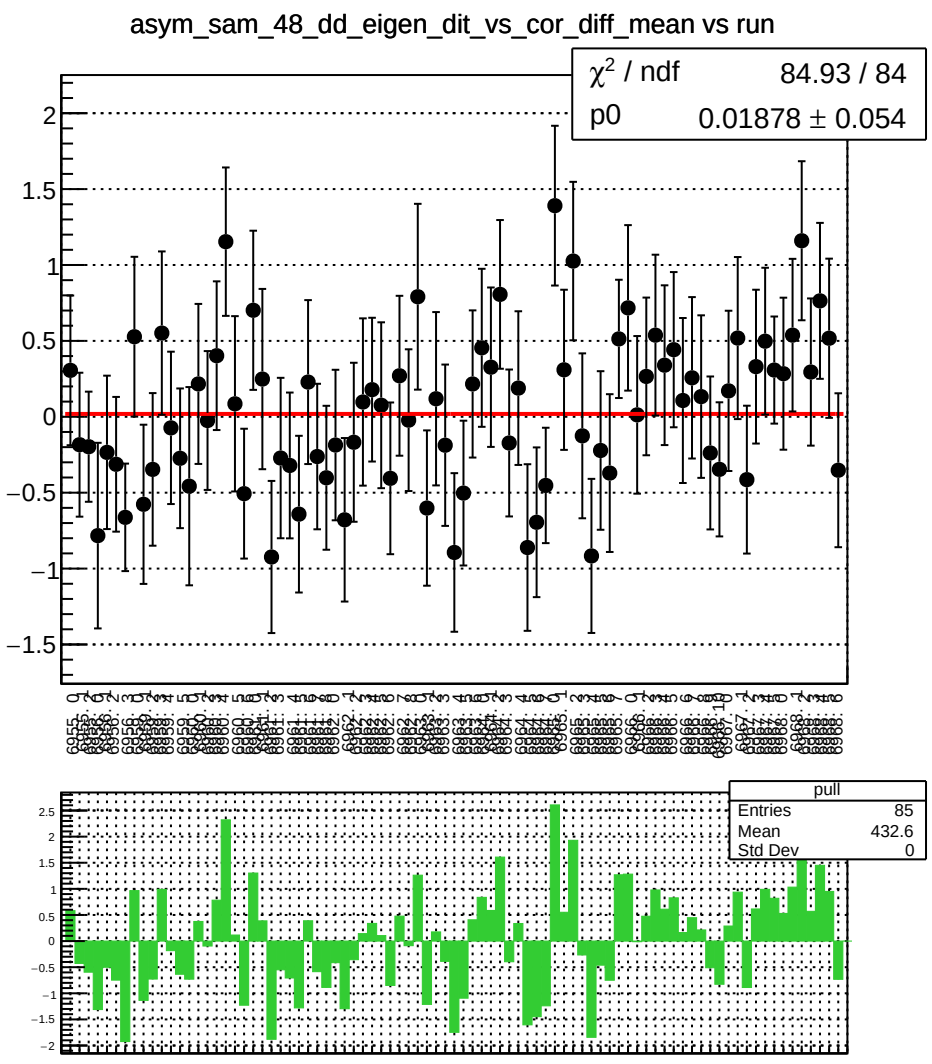

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.93 / 84
p0 0.01878 ± 0.054
pull
Entries 85
Mean 432.6
Std Dev 0

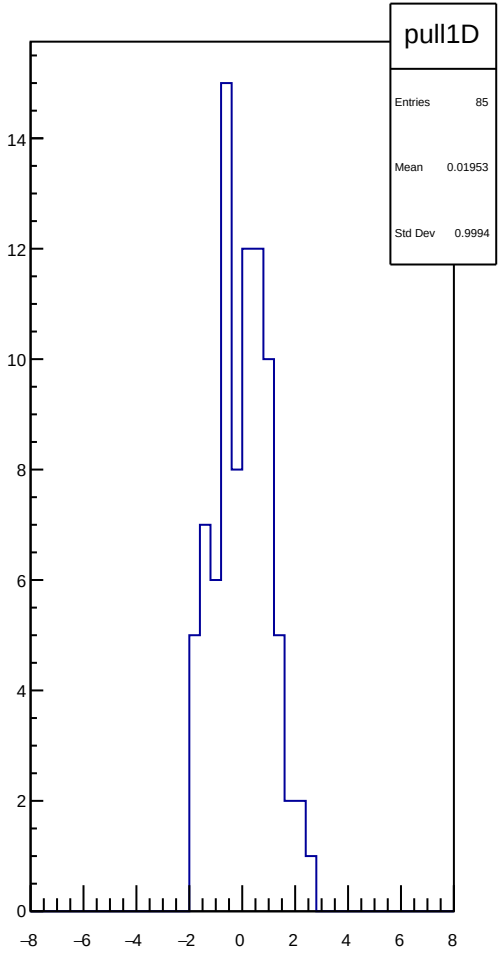

pull1D
Entries 85
Mean 0.01954
Std Dev 0.9994

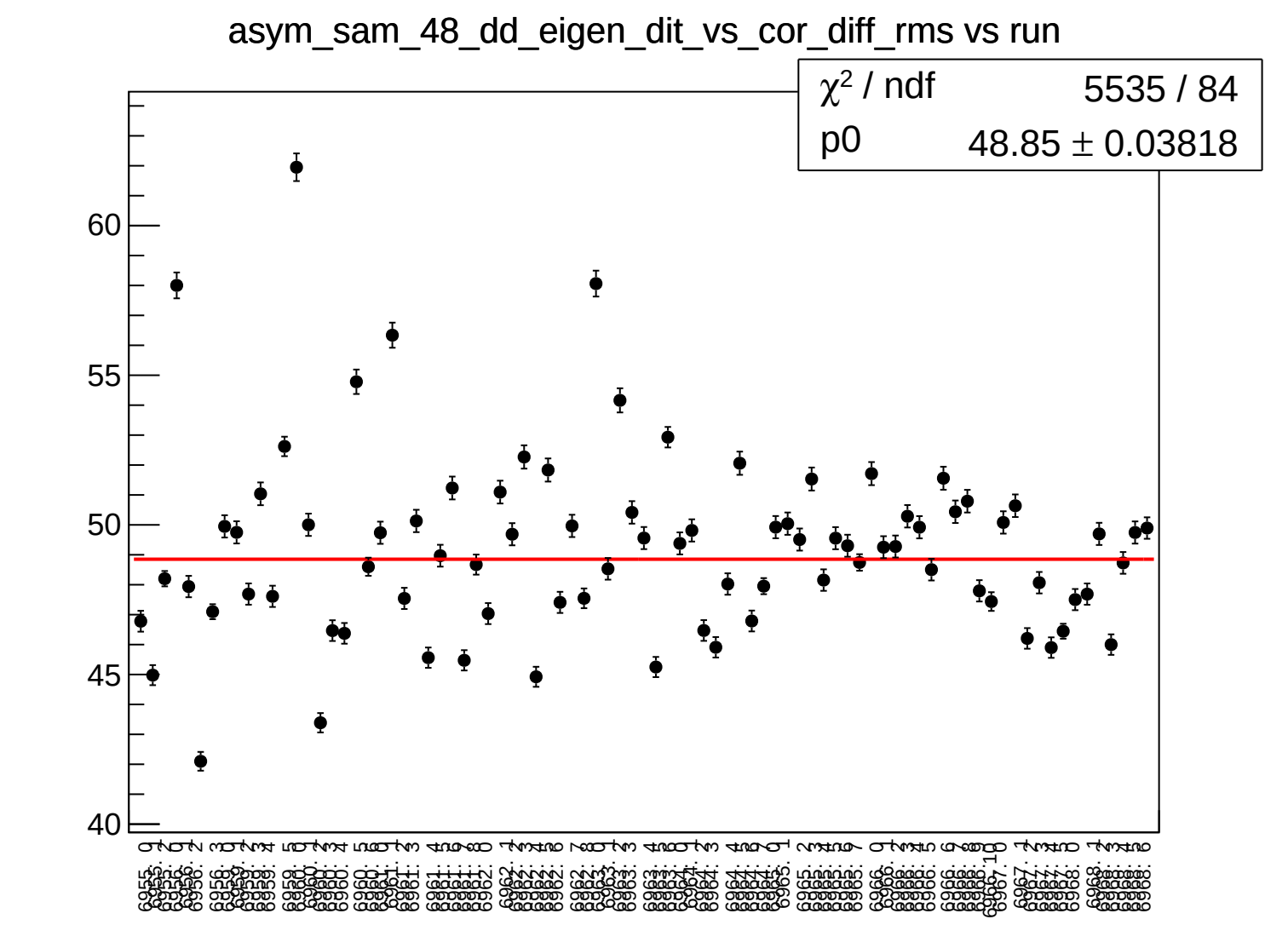

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5535 / 84
p0 48.85 ± 0.03818
60
55
50
45
40

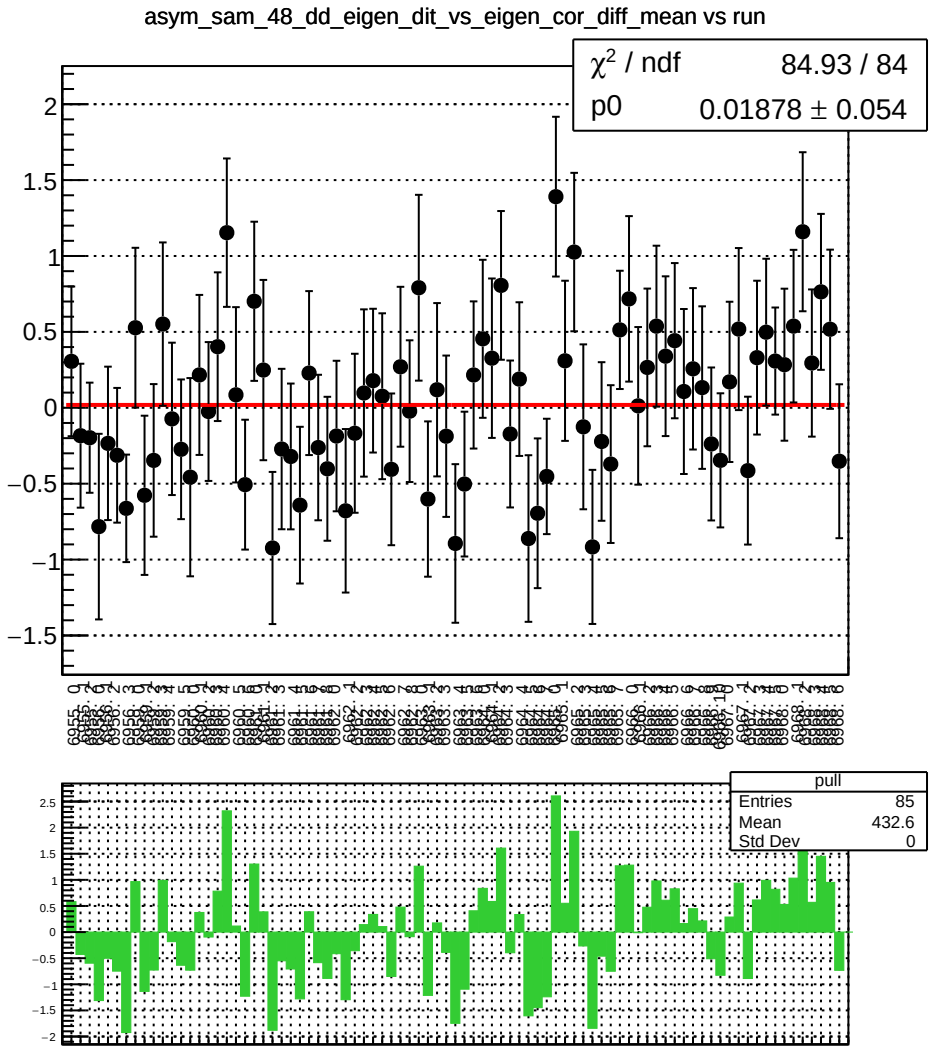

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 99.34 / 84
p0 4.815e−07 ± 1.998e−06
pull
Entries 85
Mean −111.5
Std Dev 0
pull1D
Entries 85
Mean −0.01161
Std Dev 1.081

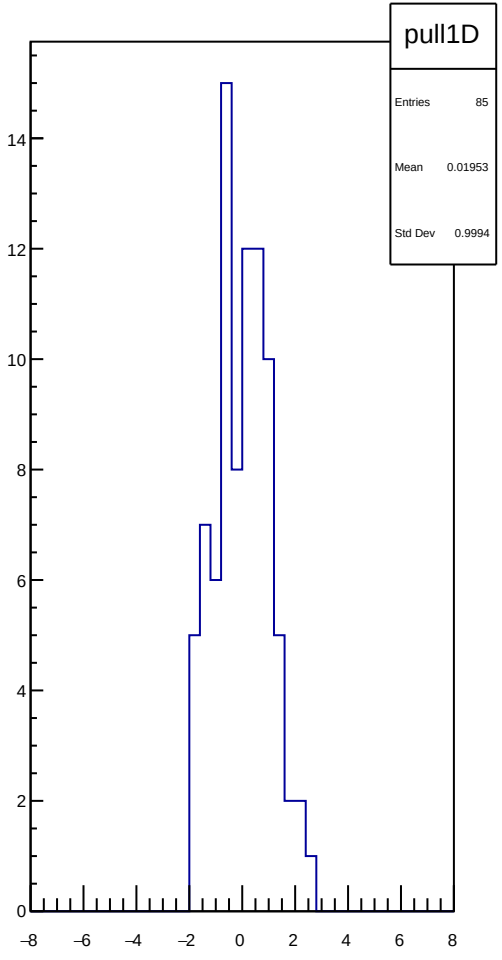

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 9550 / 84
p0 0.001806 ± 1.413e−06
0.0024
0.0022
0.002
0.0018
0.0016

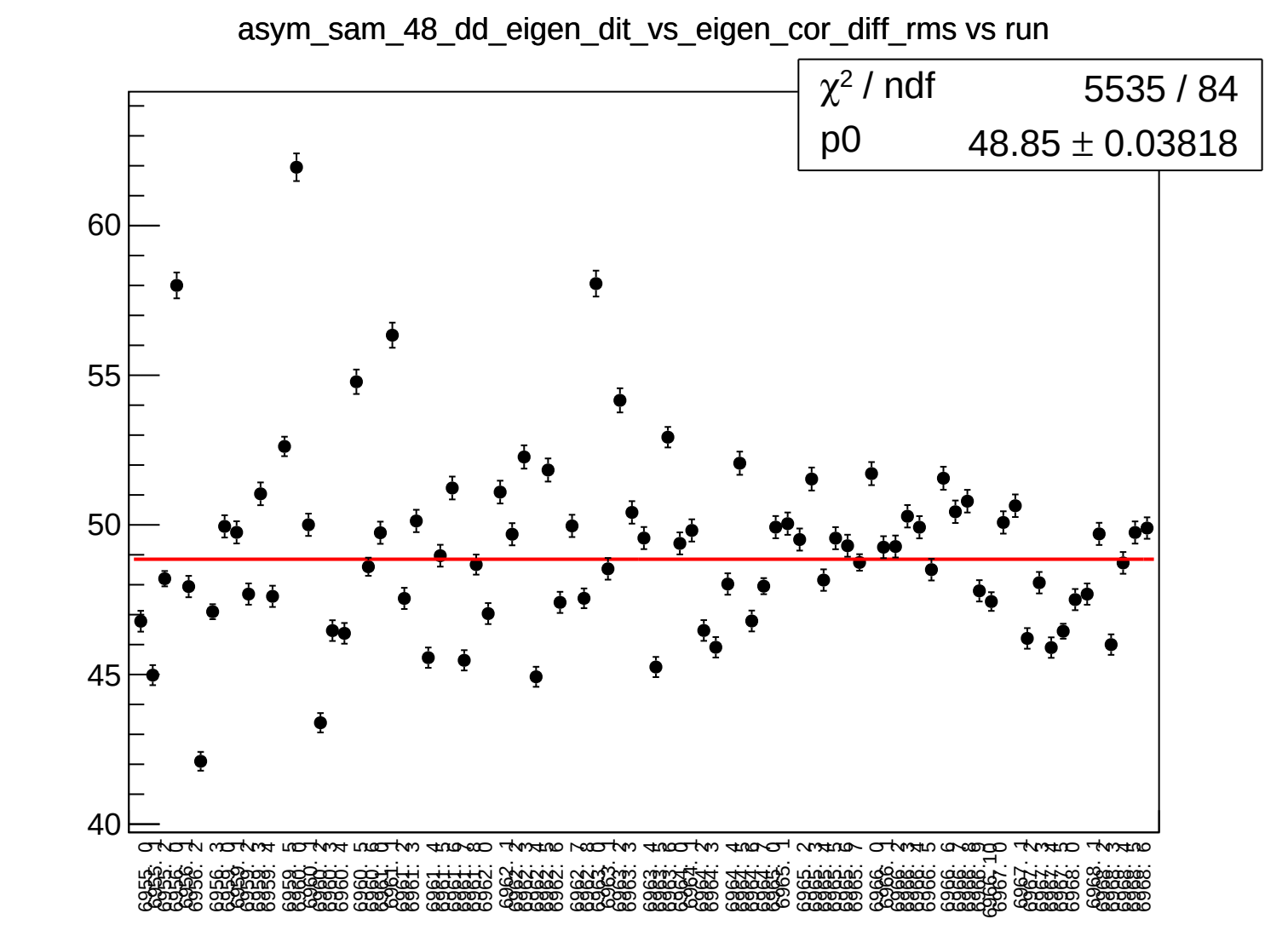

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.93 / 84
p0 0.01878 ± 0.054
pull
Entries 85
Mean 432.6
Std Dev 0

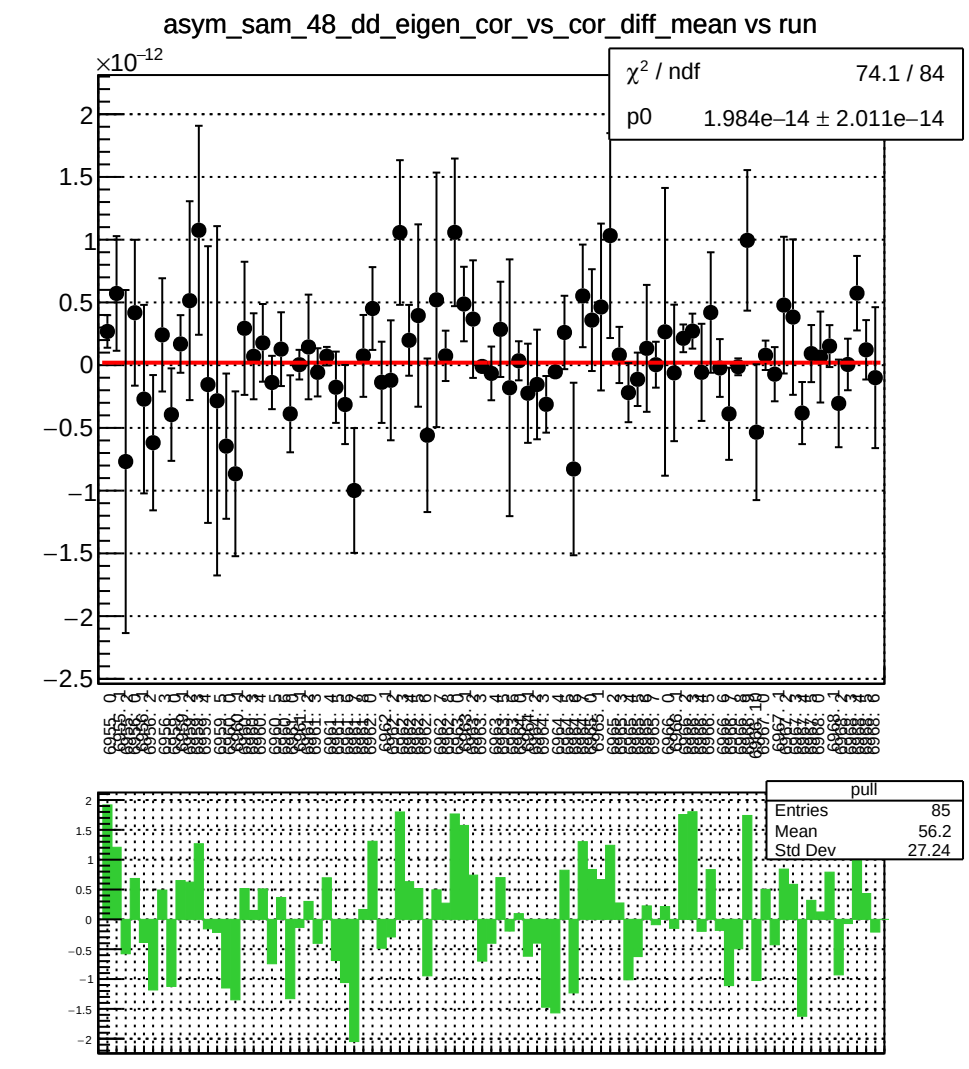

pull1D
Entries 85
Mean 0.01953
Std Dev 0.9994

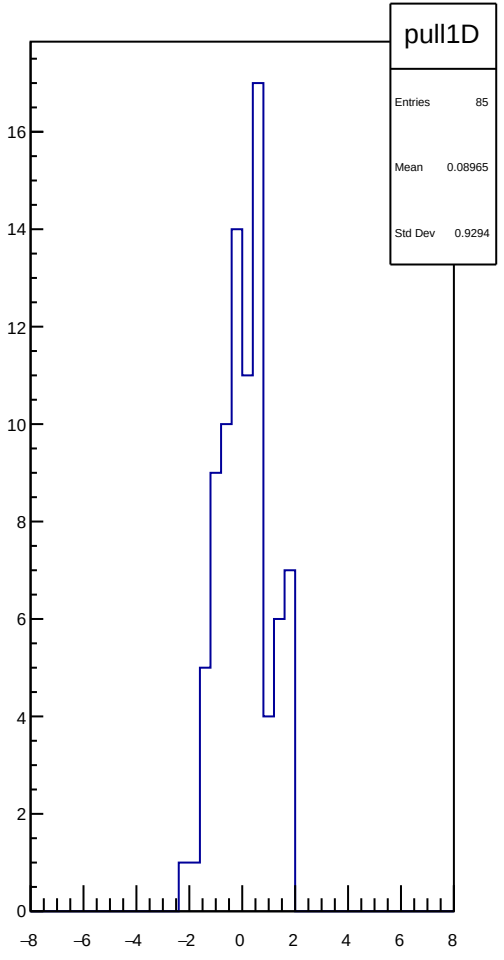

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5535 / 84
p0 48.85 ± 0.03818
60
55
50
45
40

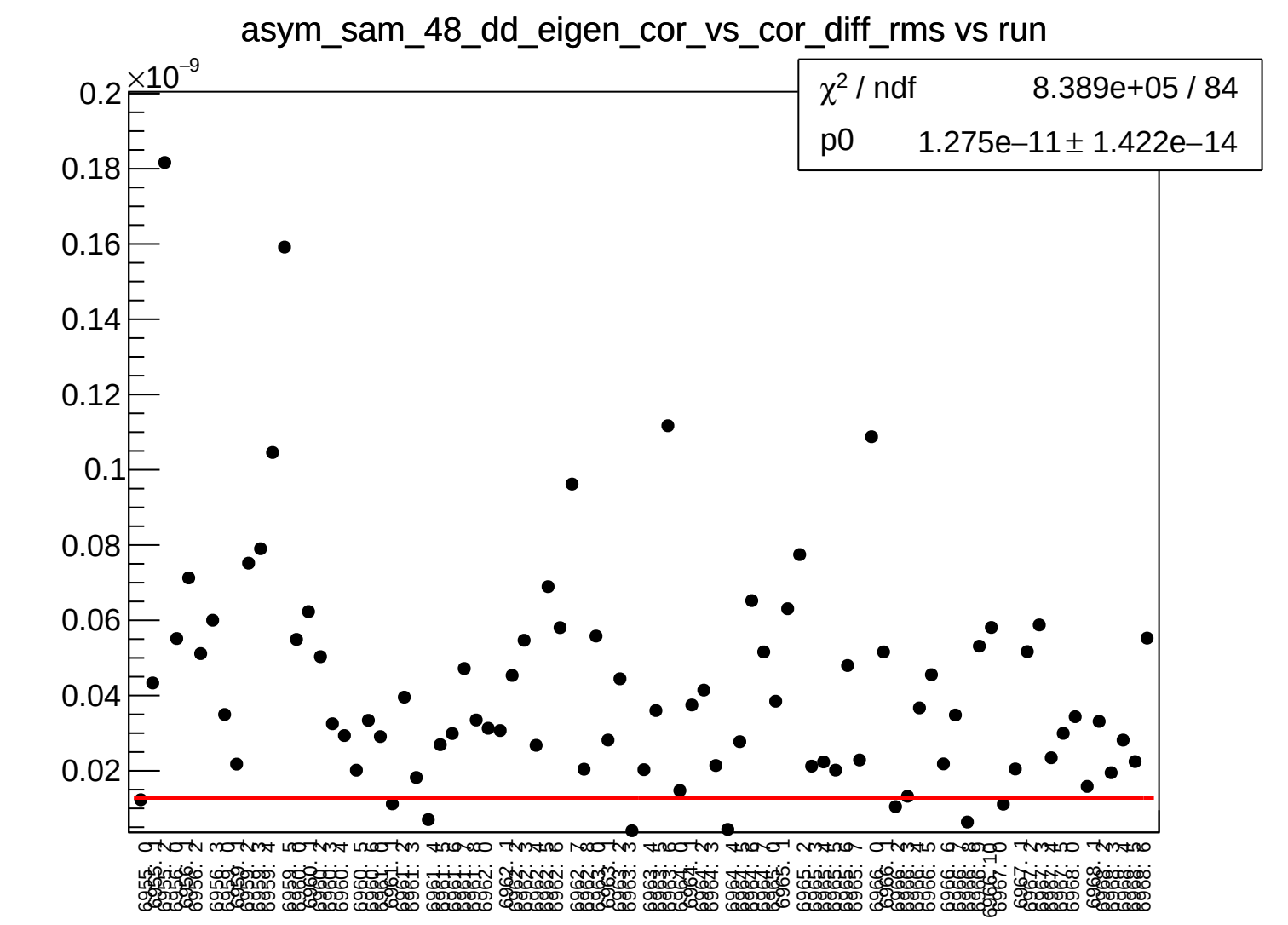

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.93 / 84
p0 0.01878 ± 0.054
pull
Entries 85
Mean 432.6
Std Dev 0

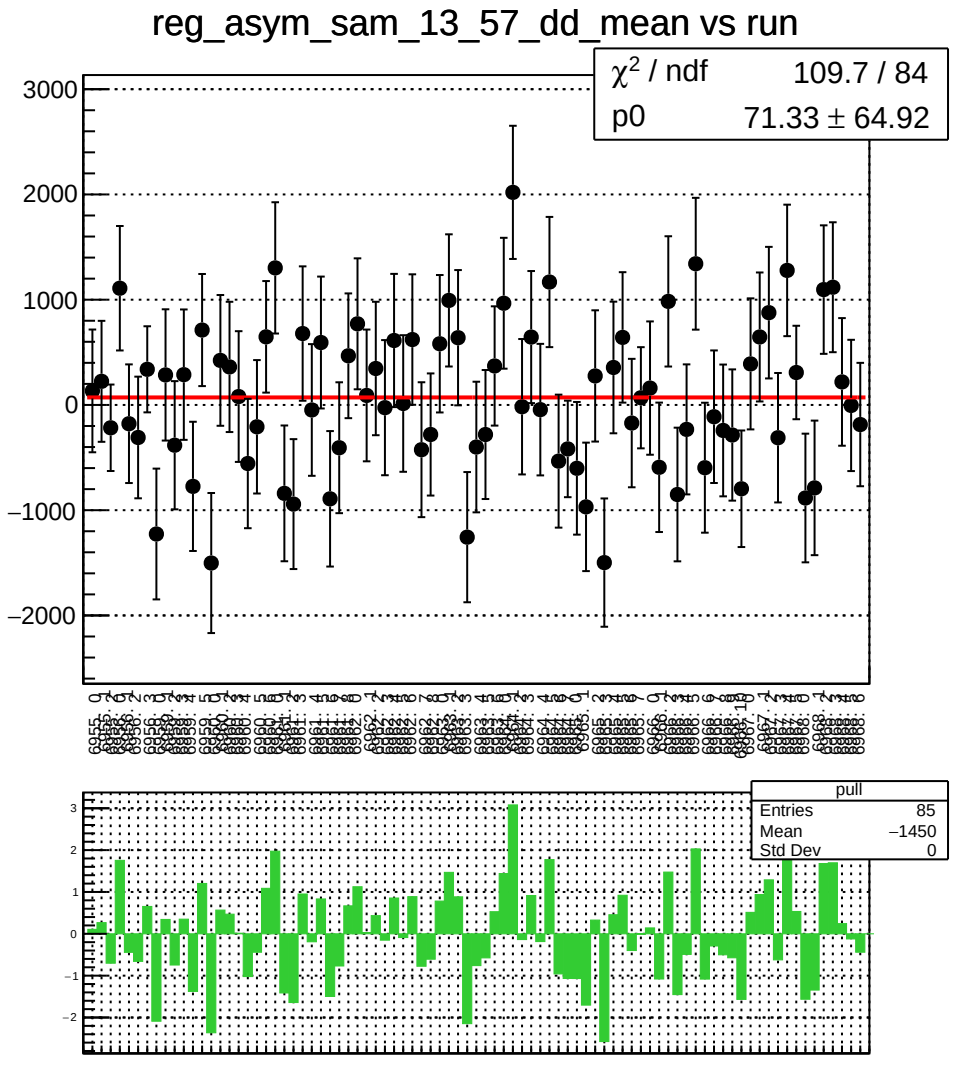

pull1D
Entries 85
Mean 0.01953
Std Dev 0.9994

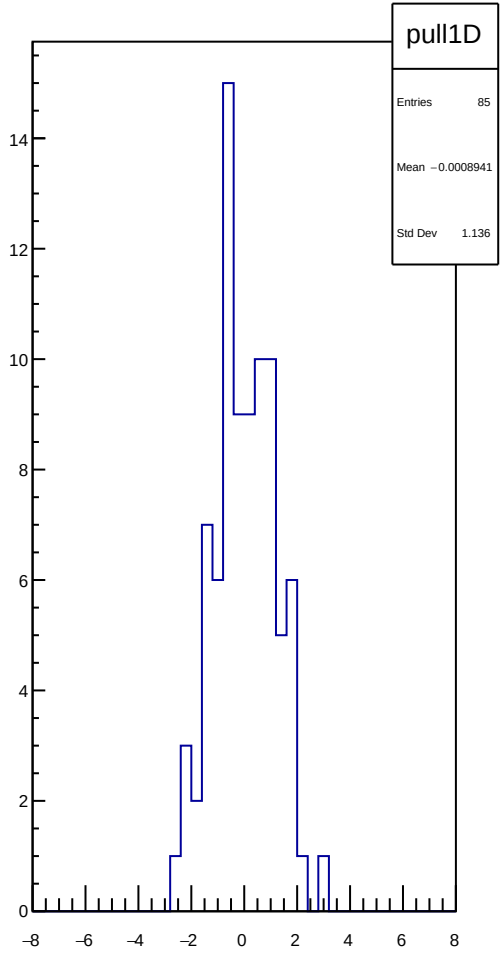

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5535 / 84
p0 48.85 ± 0.03818
60
55
50
45
40

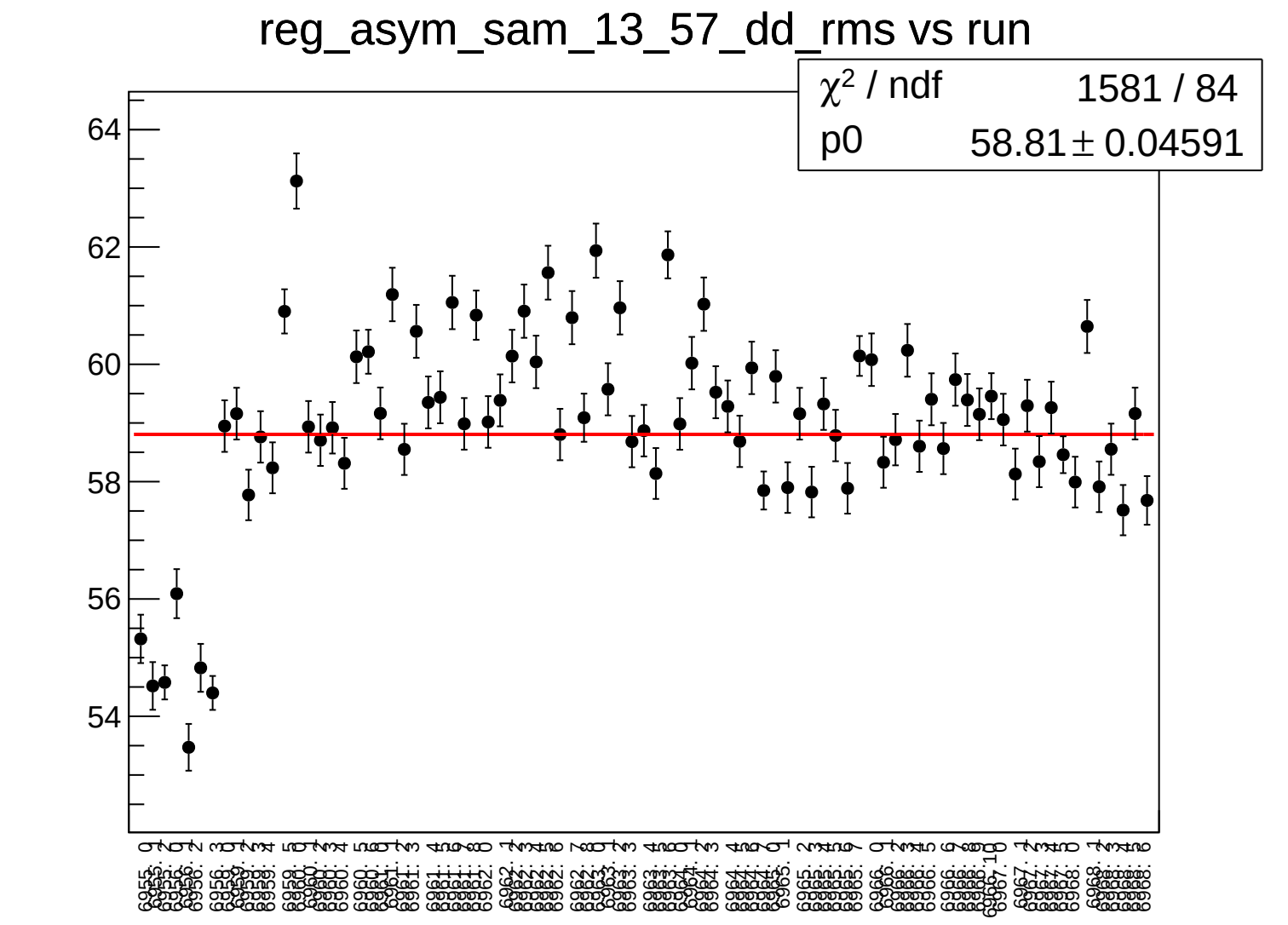

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.1 / 84
p0 1.984e−14 ± 2.011e−14
pull
Entries 85
Mean 56.2
Std Dev 27.24

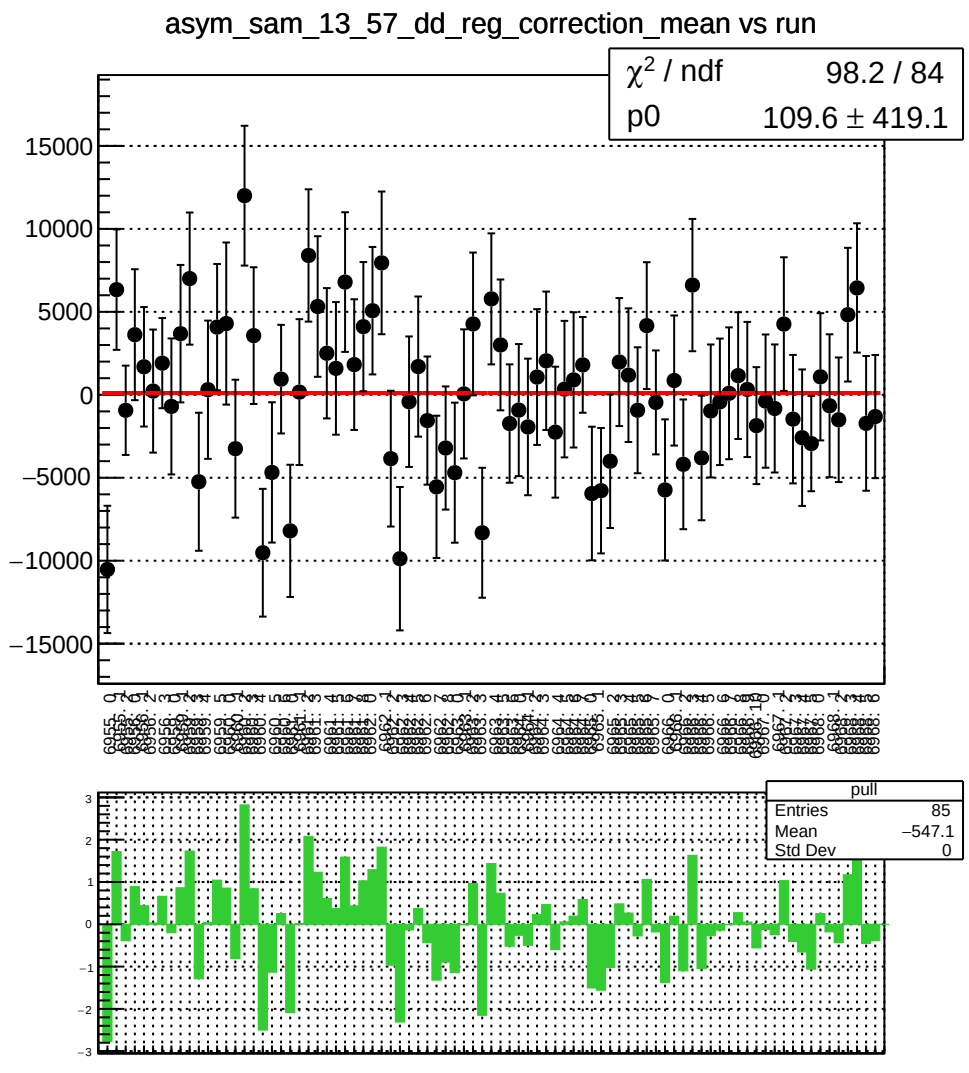

pull1D
Entries 85
Mean 0.08965
Std Dev 0.9294

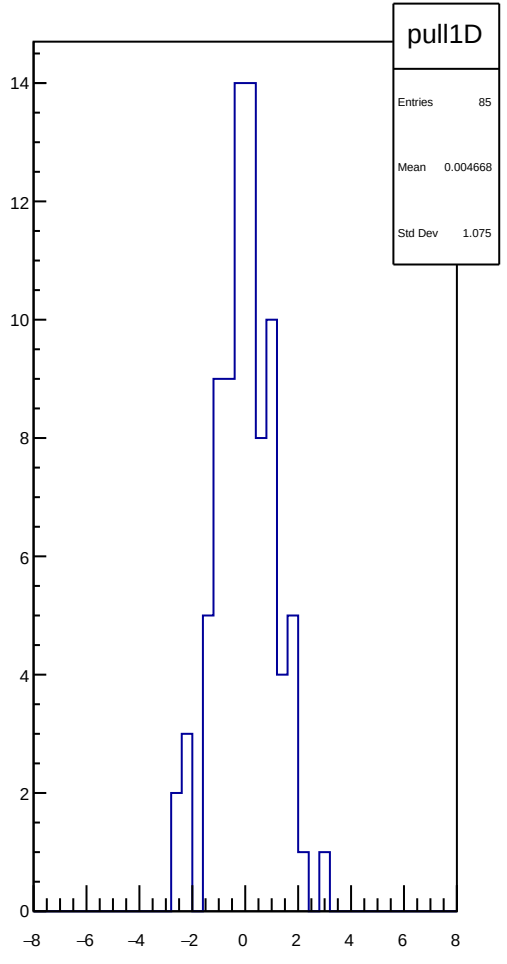

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 8.389e+05 / 84
p0 1.275e−11 ± 1.422e−14
$\times 10^{-9}$
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

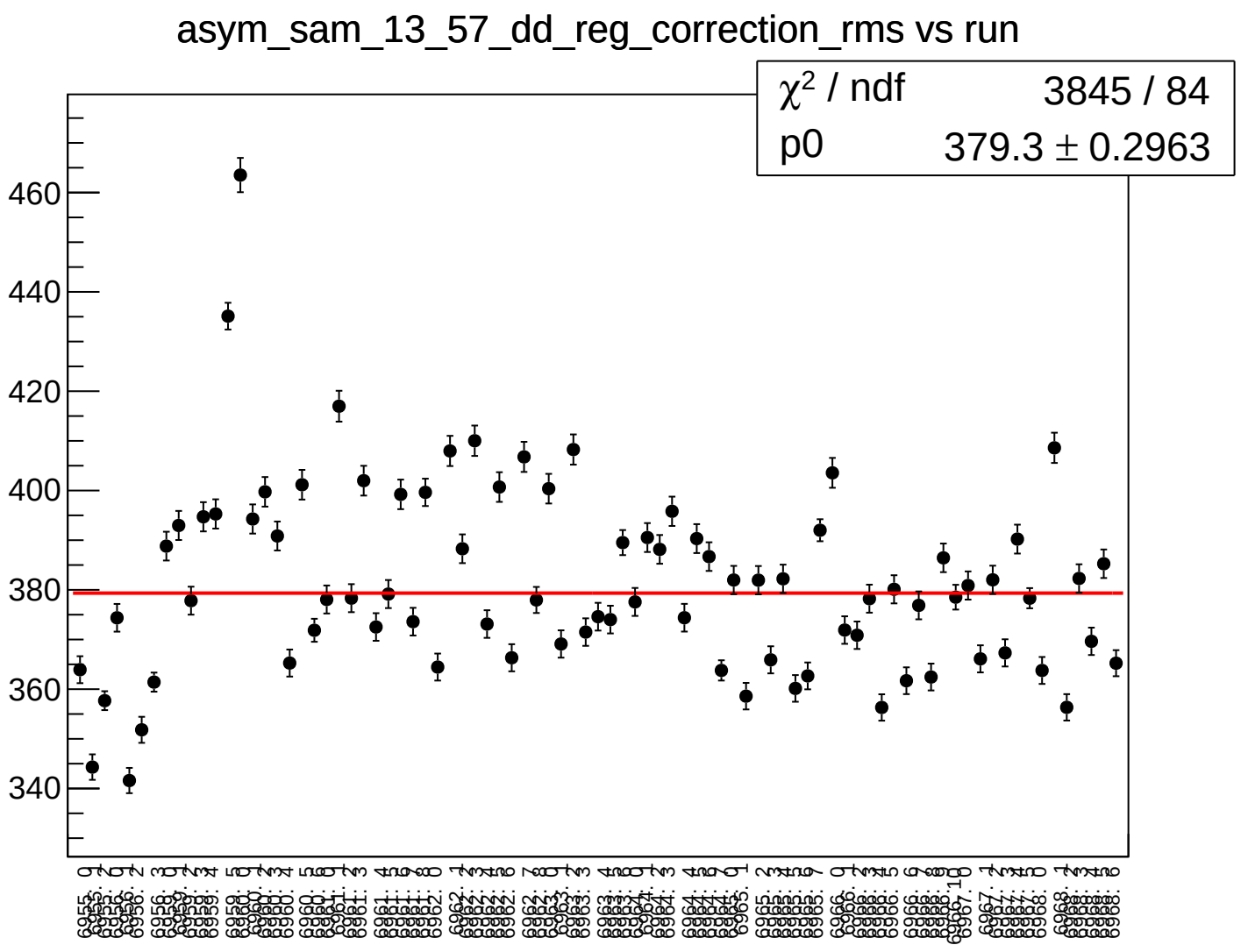

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 109.7 / 84
p0 71.33 ± 64.92
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −1450
Std Dev 0
3
2
1
0
−1
−2

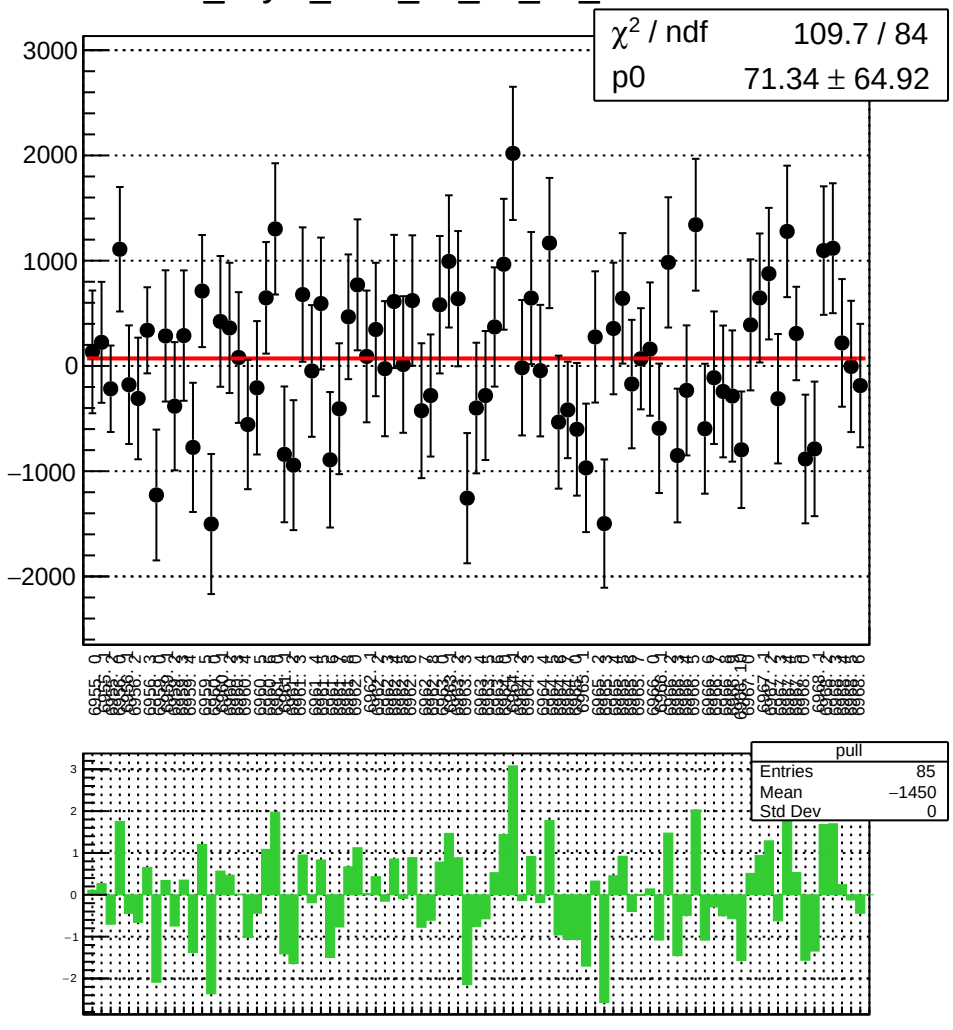

pull1D
Entries 85
Mean −0.0008941
Std Dev 1.136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

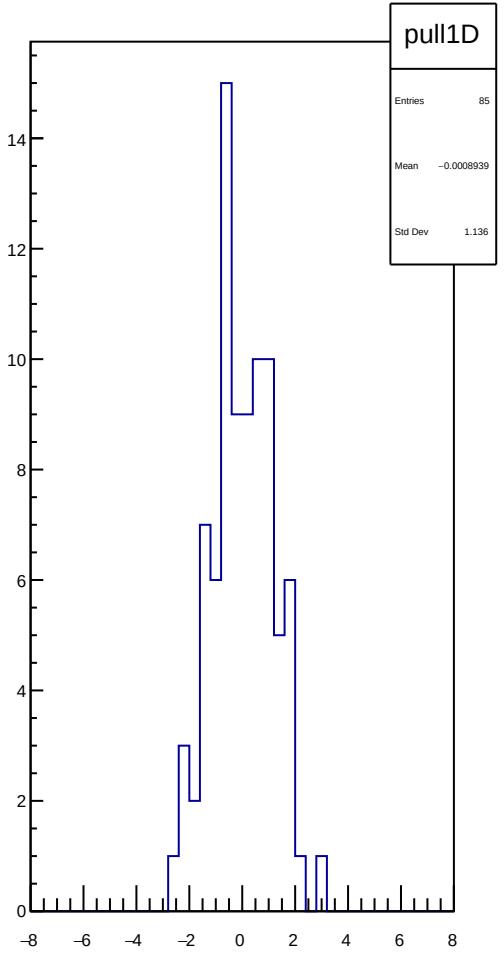

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1581 / 84
p0 58.81 ± 0.04591
64
62
60
58
56
54

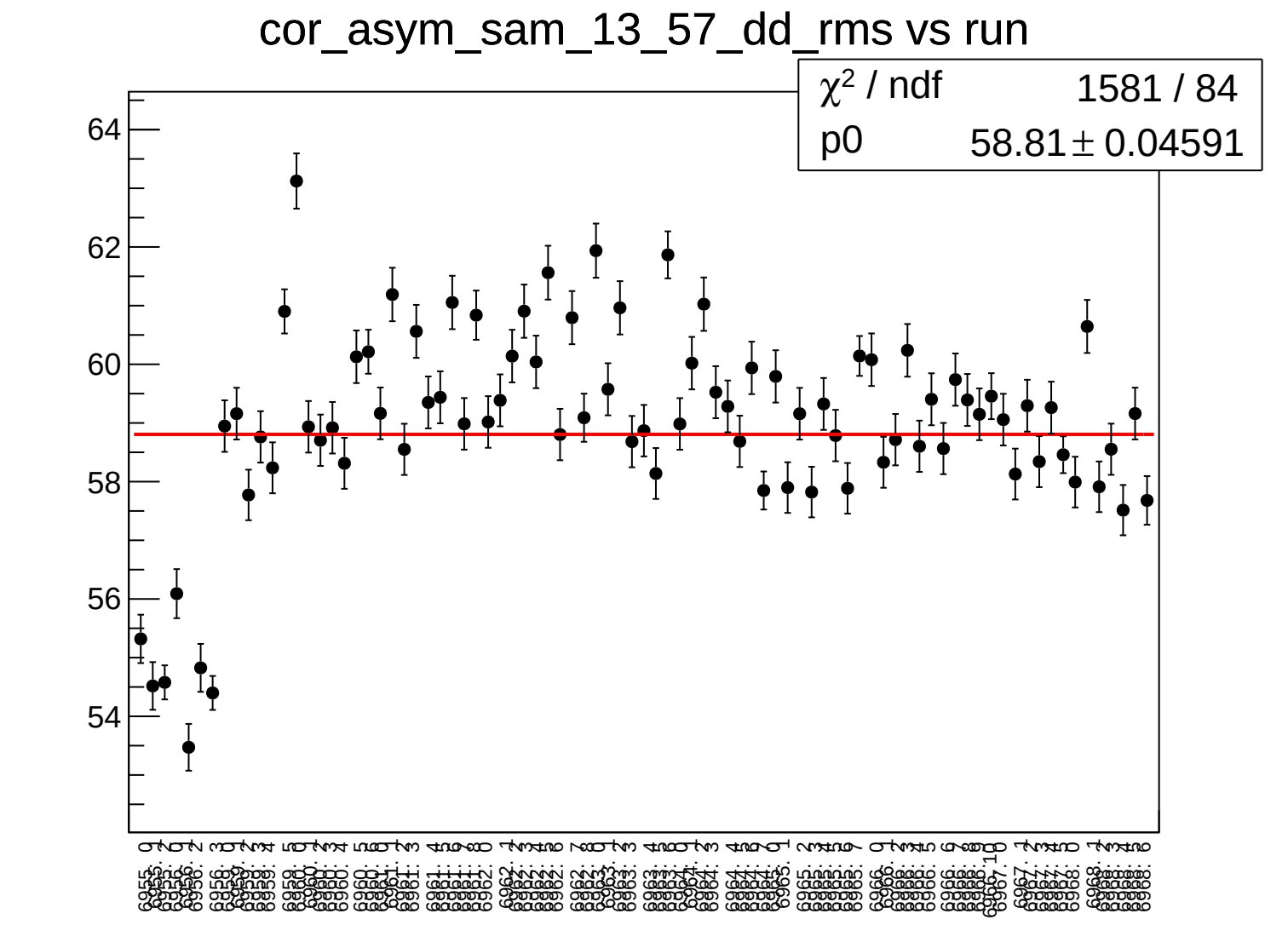

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 98.2 / 84
p0 109.6 ± 419.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −547.1
Std Dev 0
3
2
1
0
−1
−2
−3

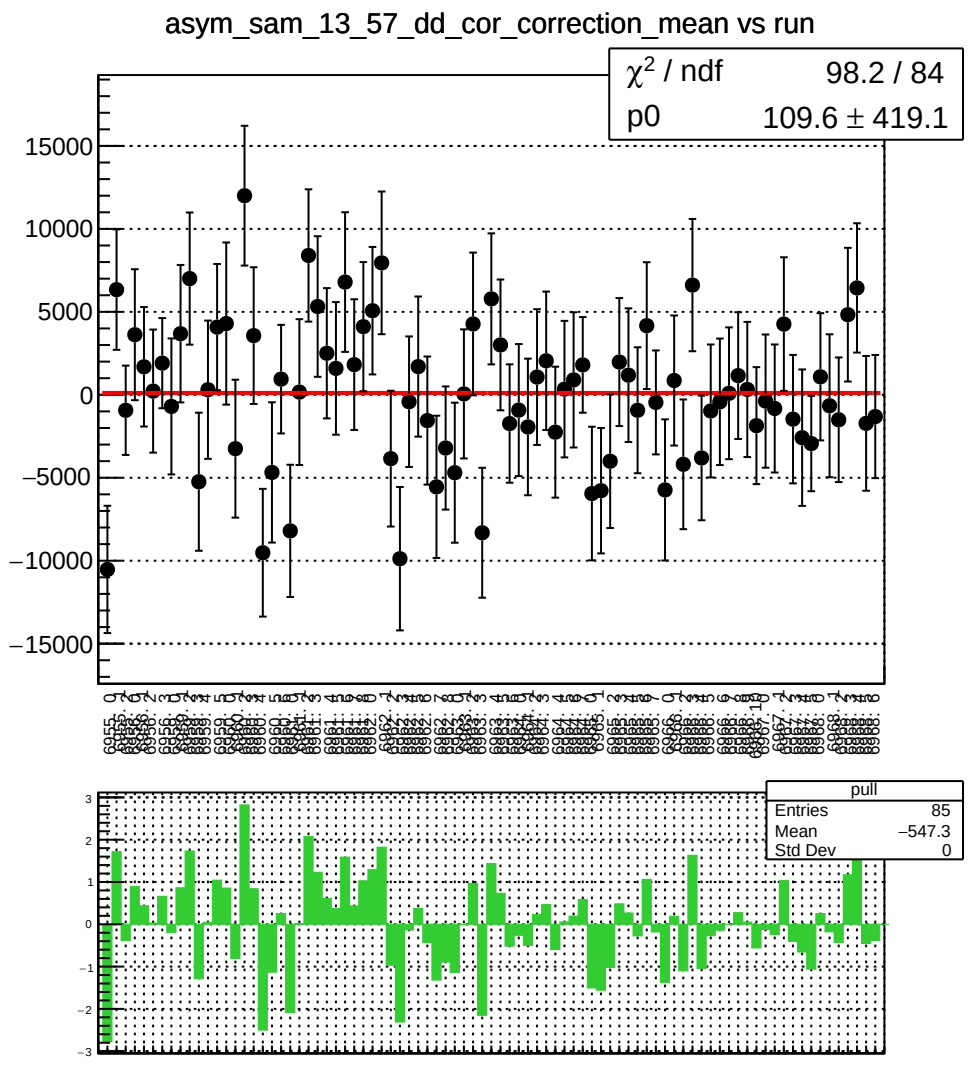

pull1D
Entries 85
Mean 0.004668
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

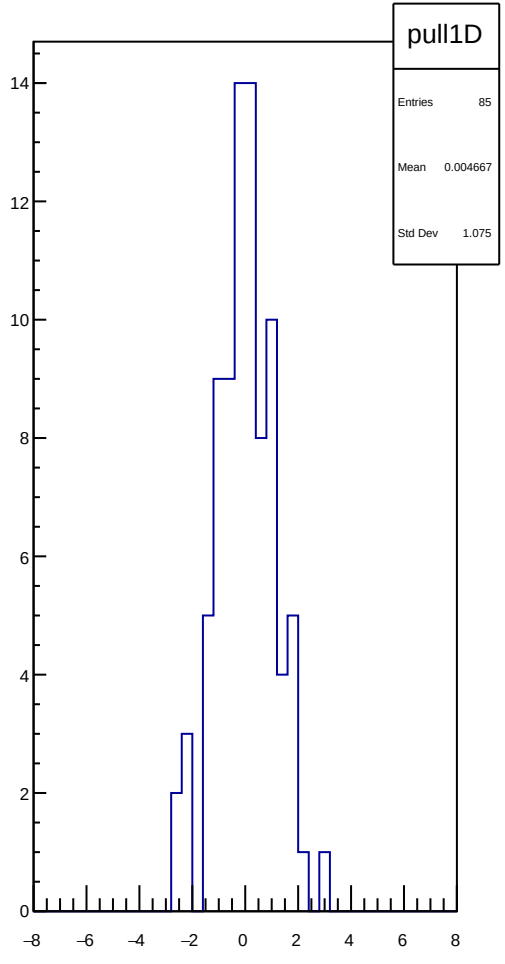

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 3845 / 84
p0 379.3 ± 0.2963
460
440
420
400
380
360
340

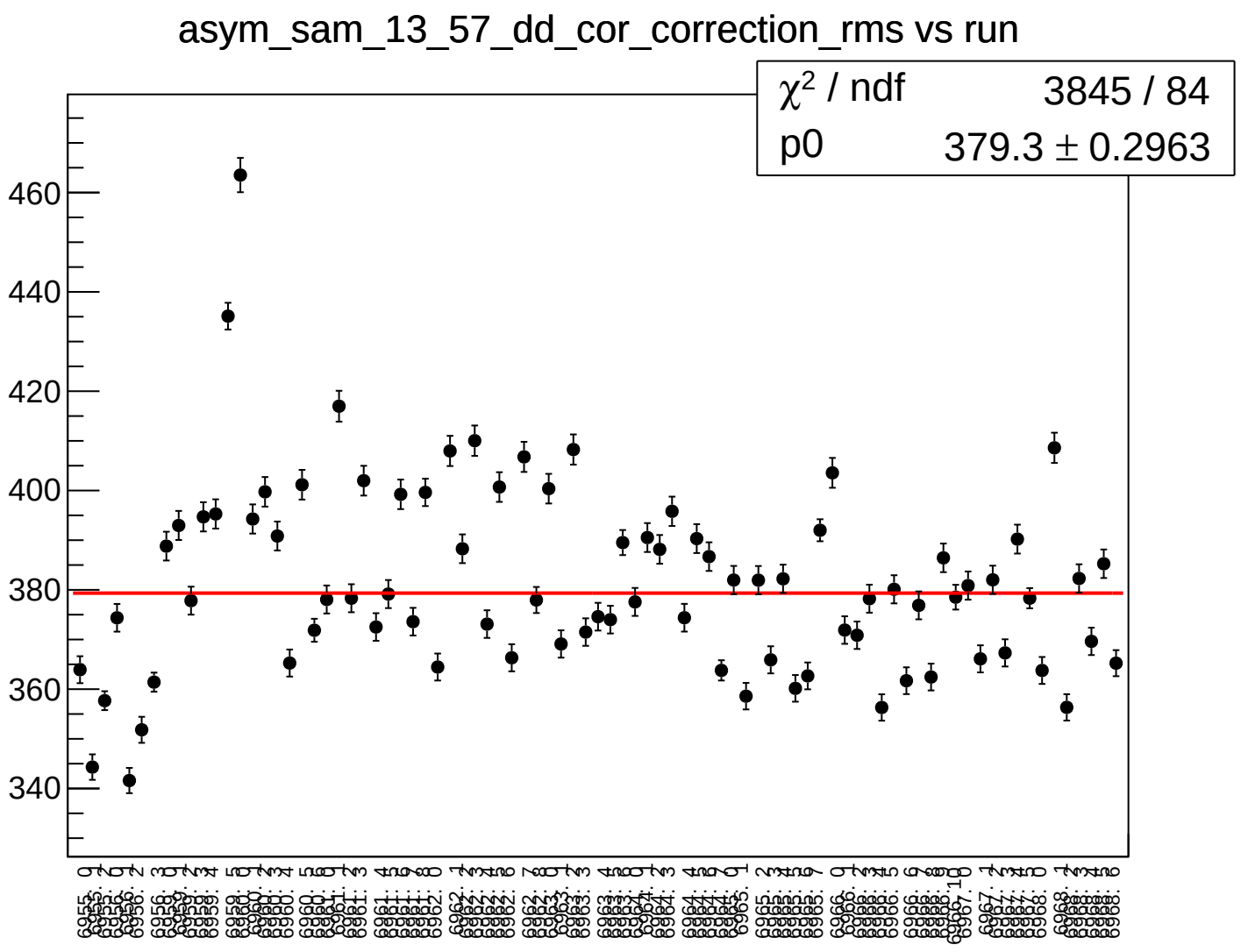

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 109.7 / 84
p0 71.34 ± 64.92
pull
Entries 85
Mean −1450
Std Dev 0

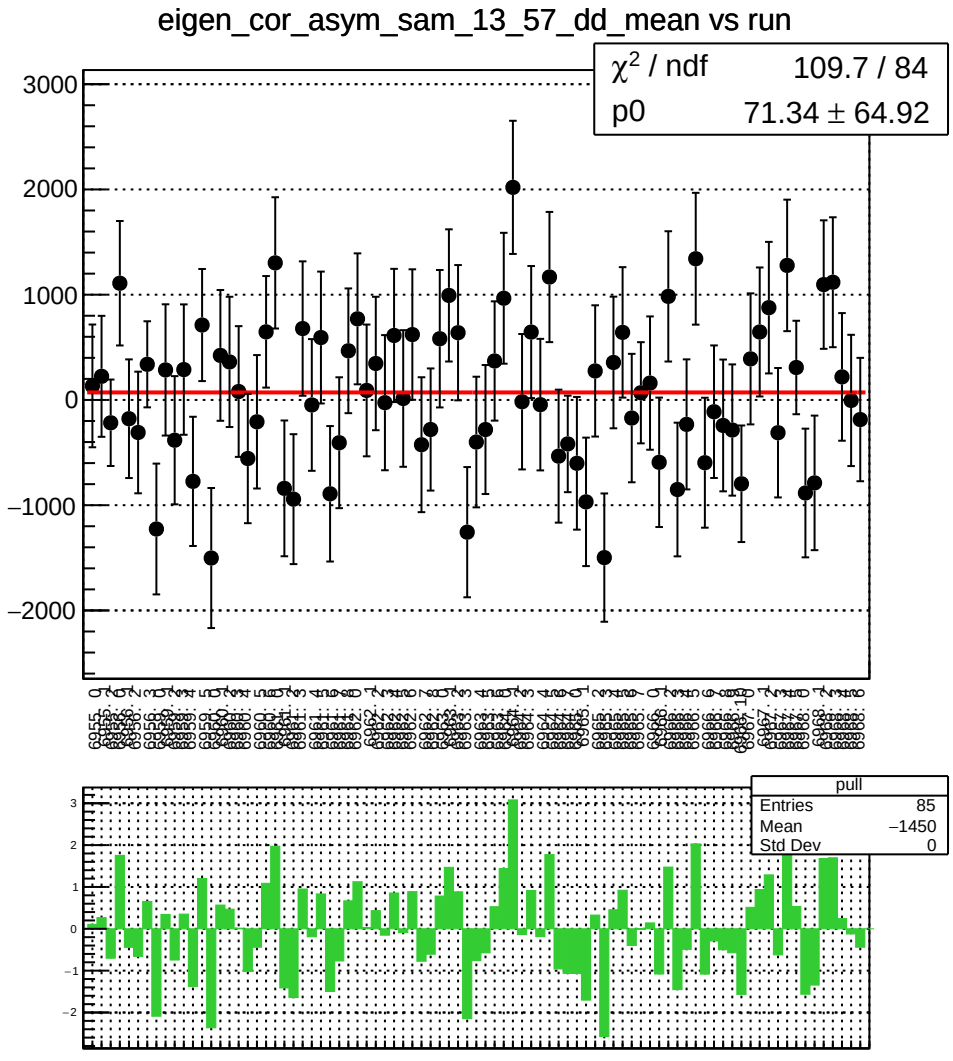

pull1D
Entries 85
Mean −0.0008939
Std Dev 1.136

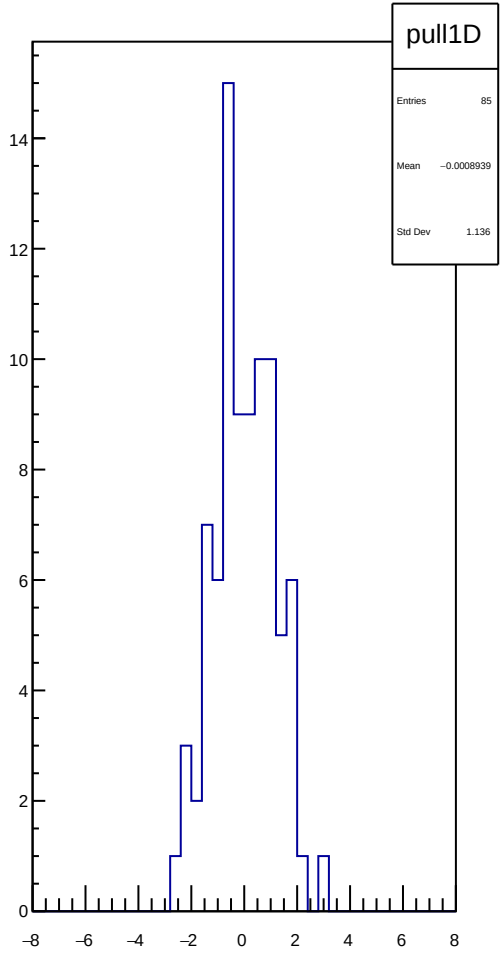

cor_asym_sam_13_57_dd_rms vs run
$\chi^2$ / ndf 1581 / 84
p0 58.81 ± 0.04591
64
62
60
58
56
54

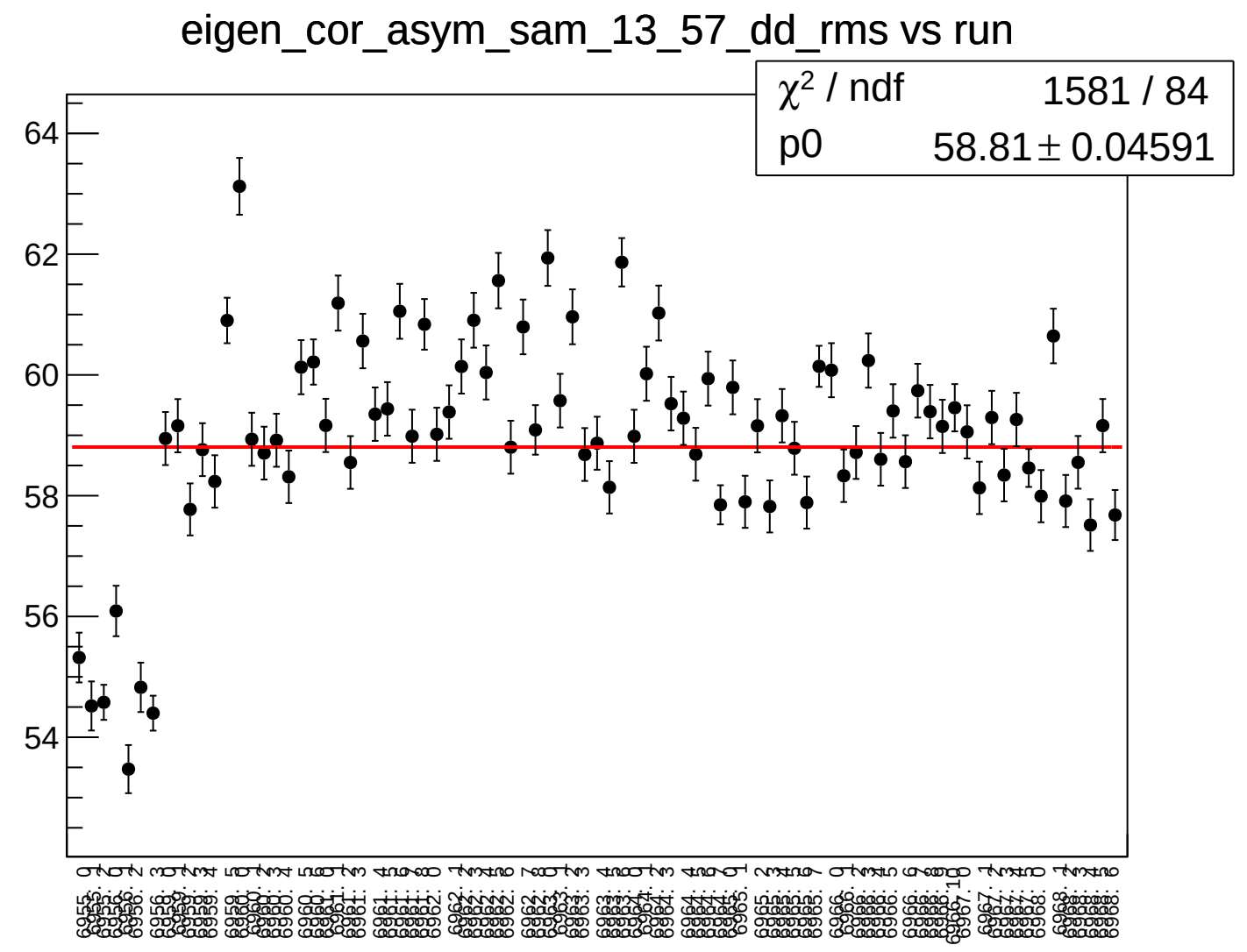

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 98.2 / 84
p0 109.6 ± 419.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −547.3
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 85
Mean 0.004667
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

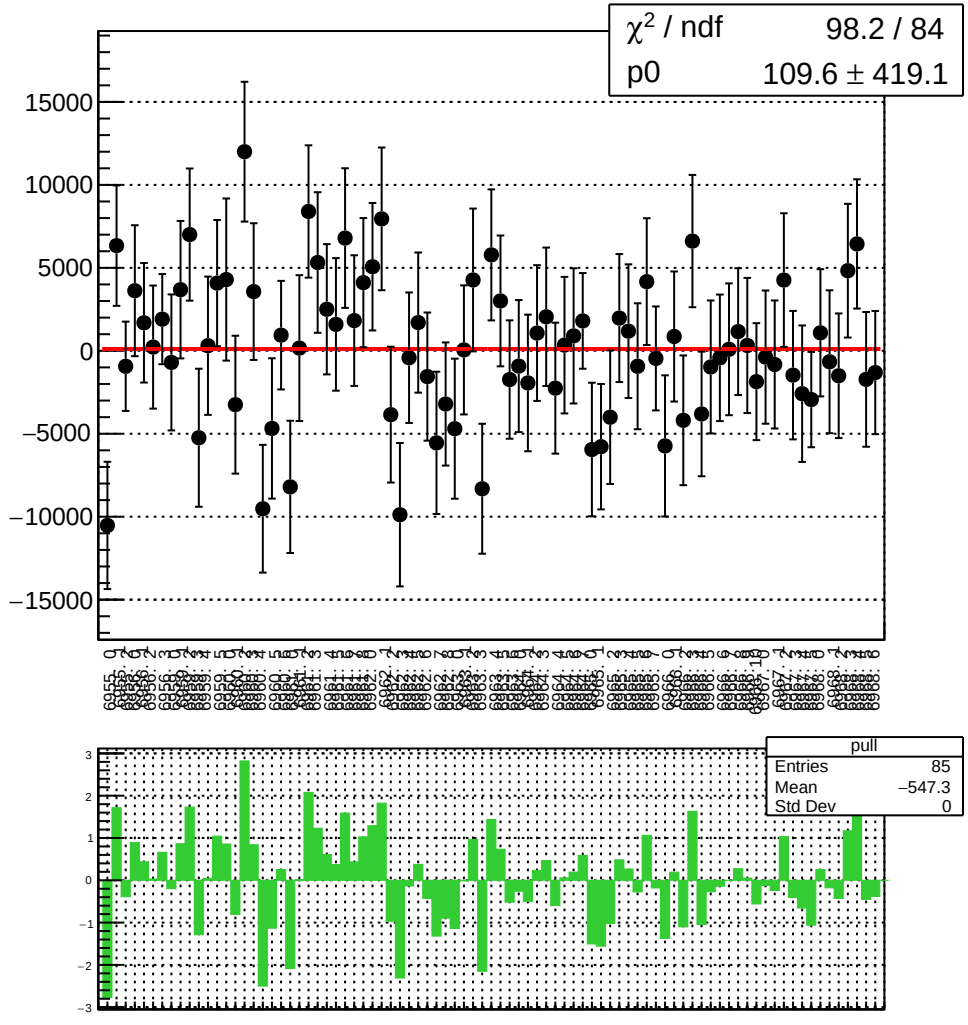

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 3845 / 84
p0 379.3 ± 0.2963
460
440
420
400
380
360
340

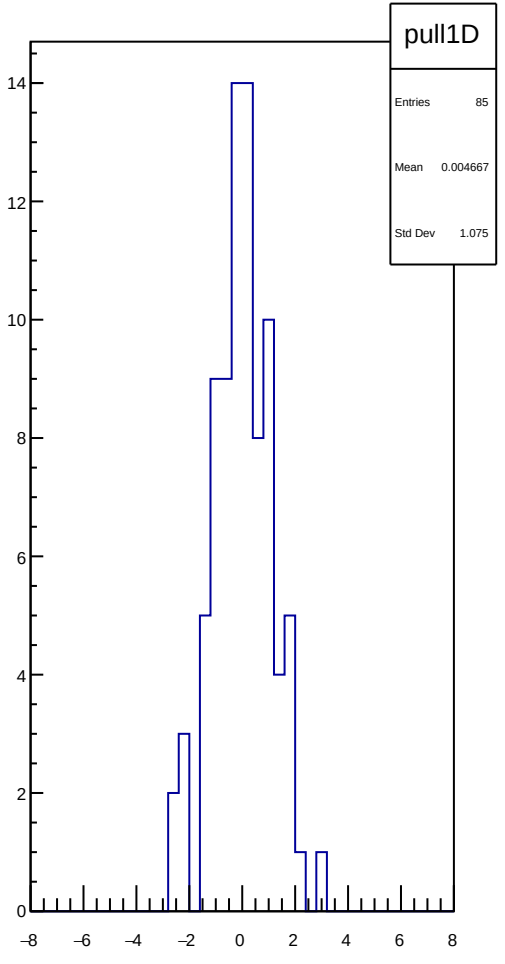

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 109.7 / 84
p0 71.34 ± 64.92
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −1450
Std Dev 0
3
2
1
0
−1

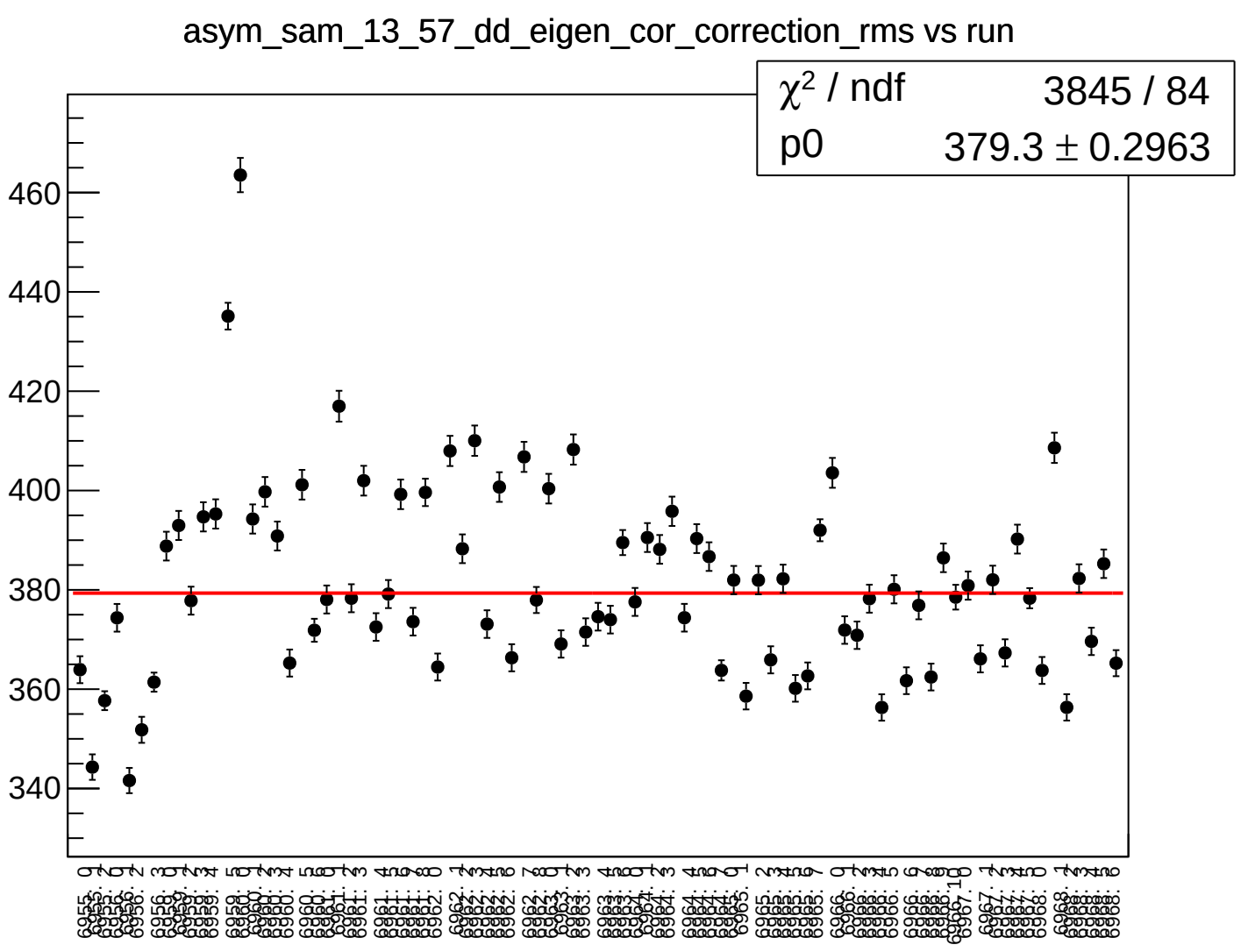

pull1D
Entries 85
Mean −0.0008939
Std Dev 1.136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

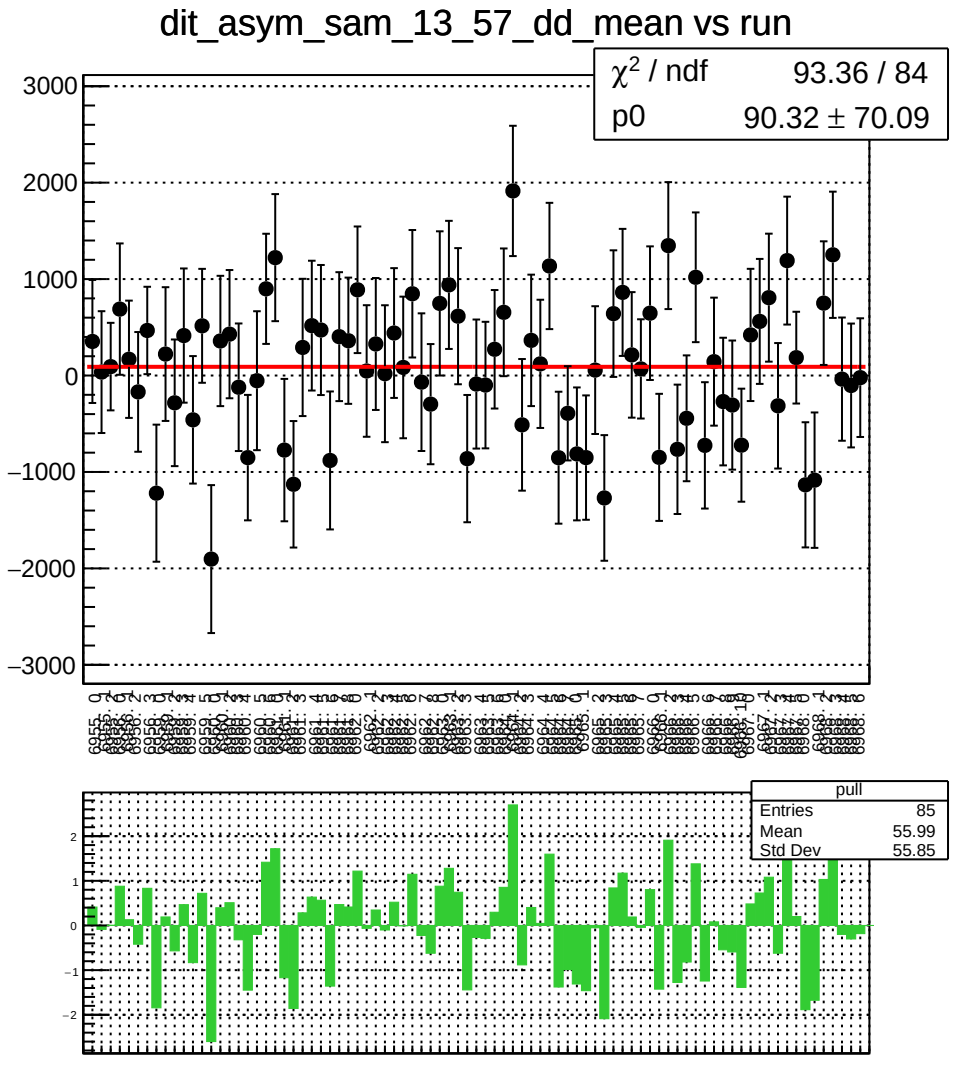

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1581 / 84
p0 58.81 ± 0.04591
64
62
60
58
56
54

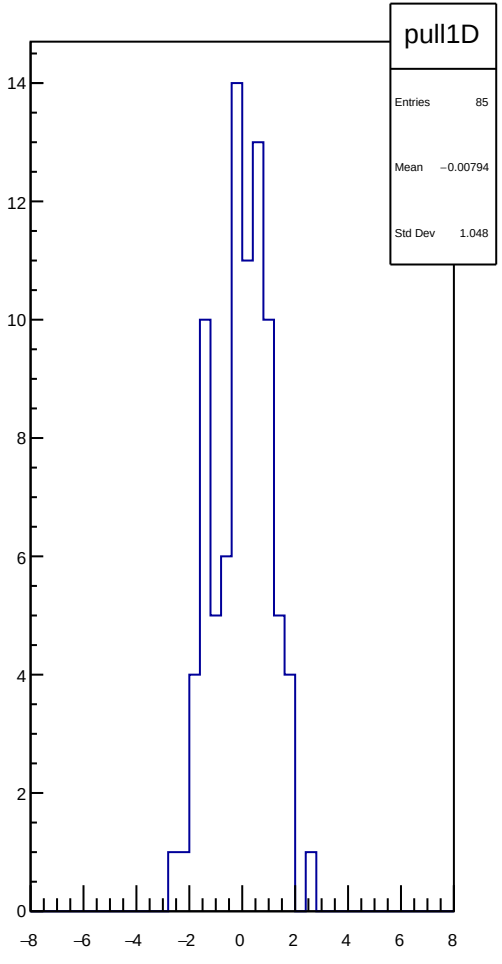
asym_sam_13_57_dd_eigen_cor_correction_mean vs run

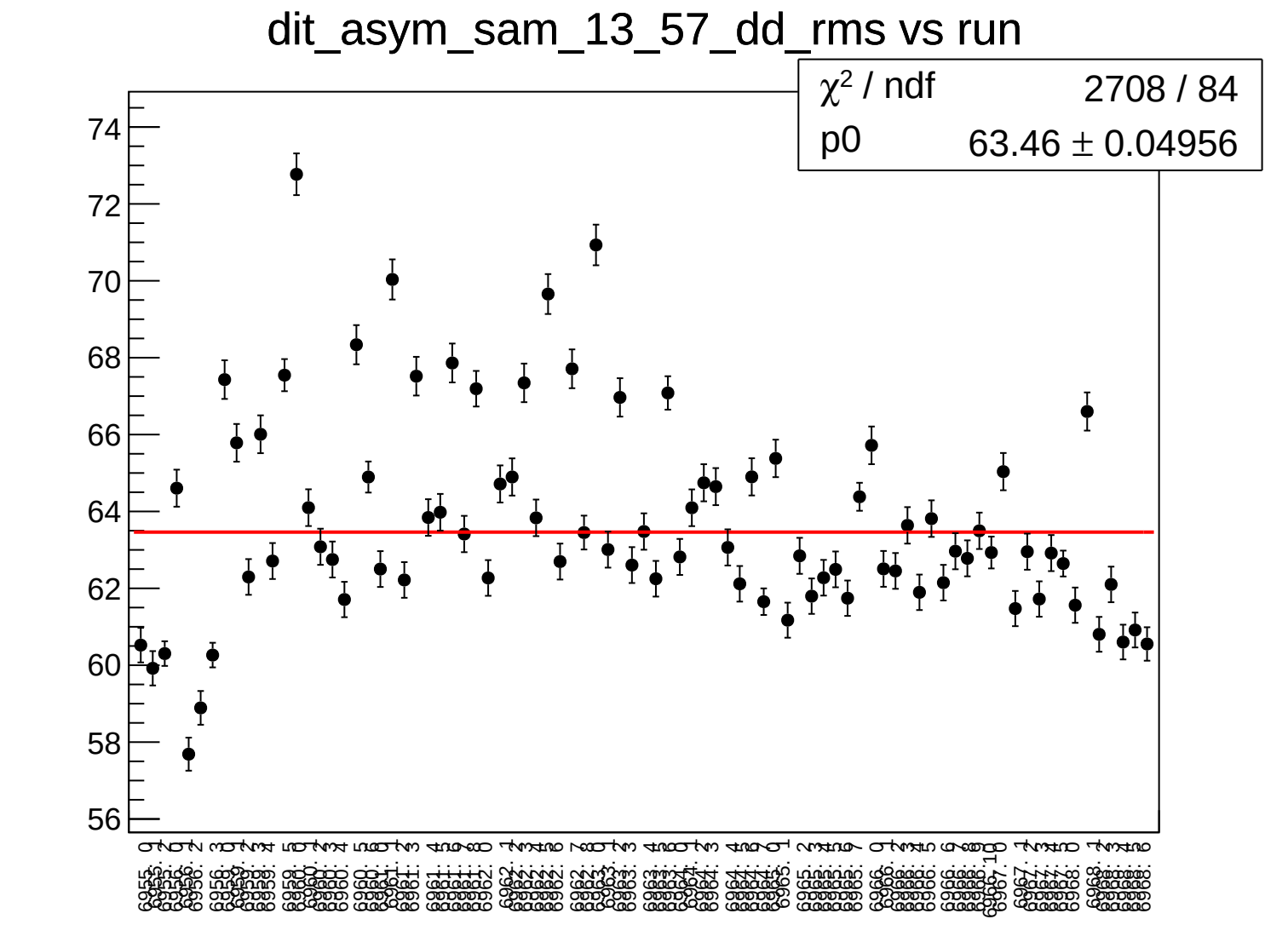


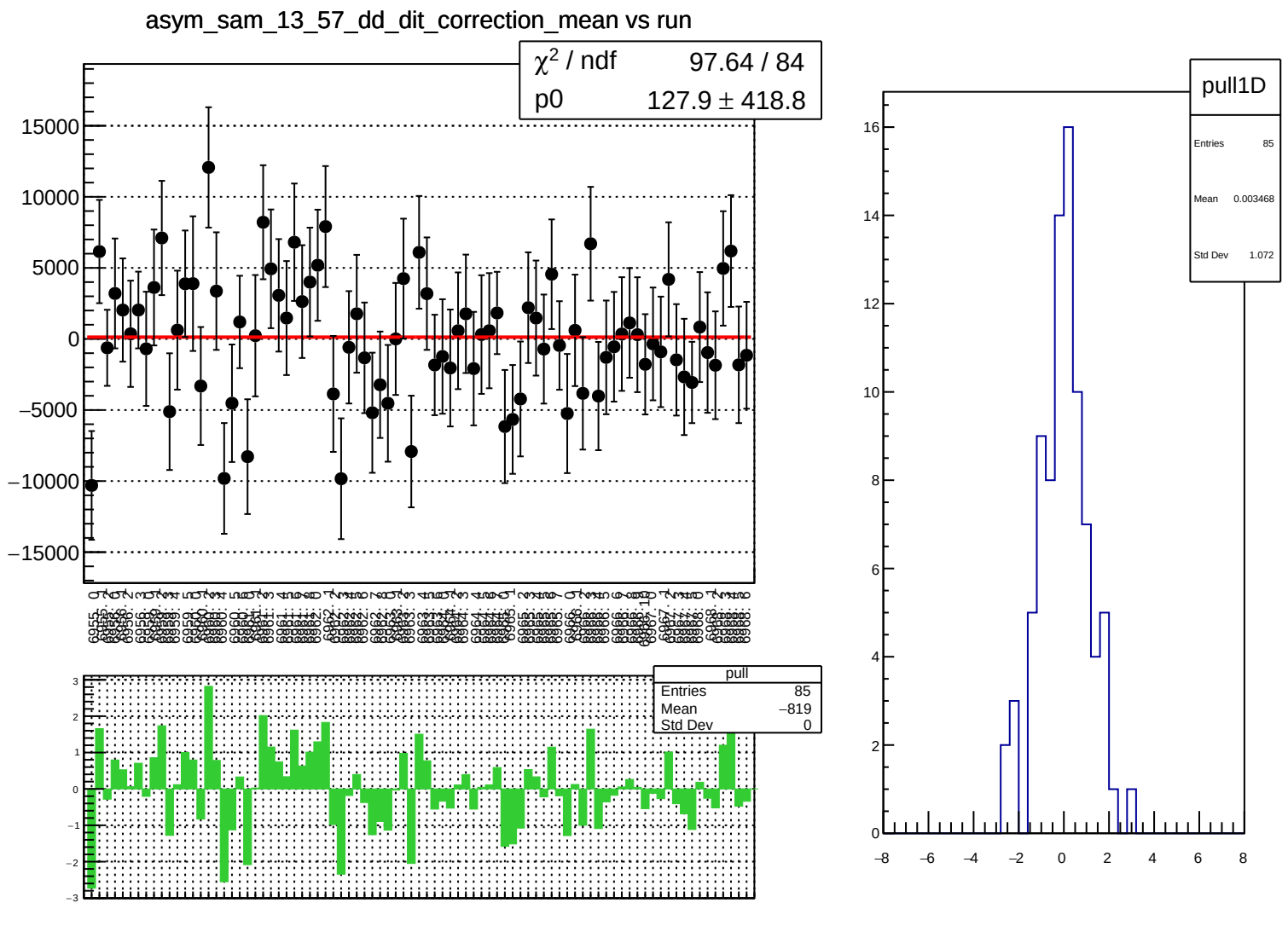



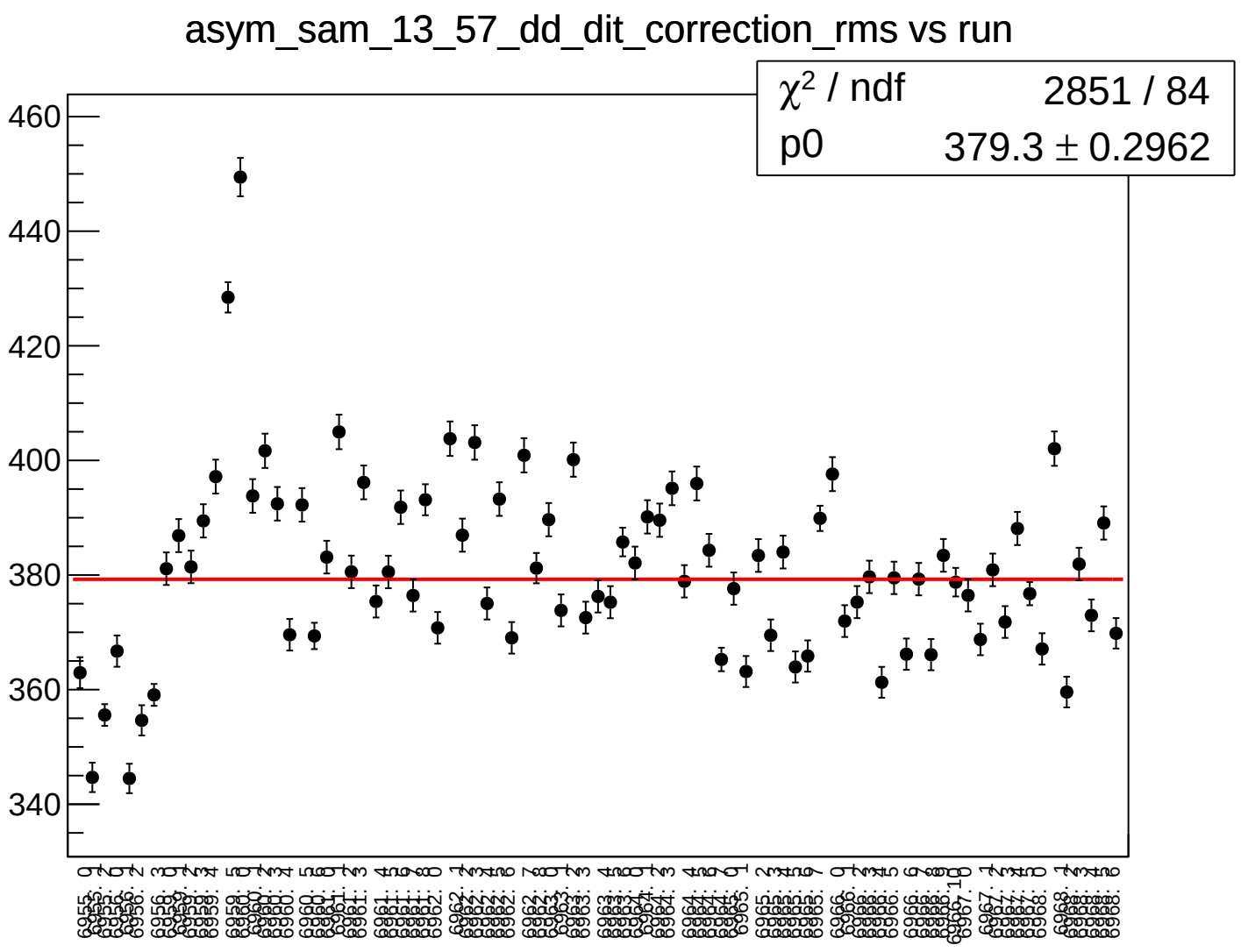

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 3845 / 84
p0 379.3 ± 0.2963
460
440
420
400
380
360
340

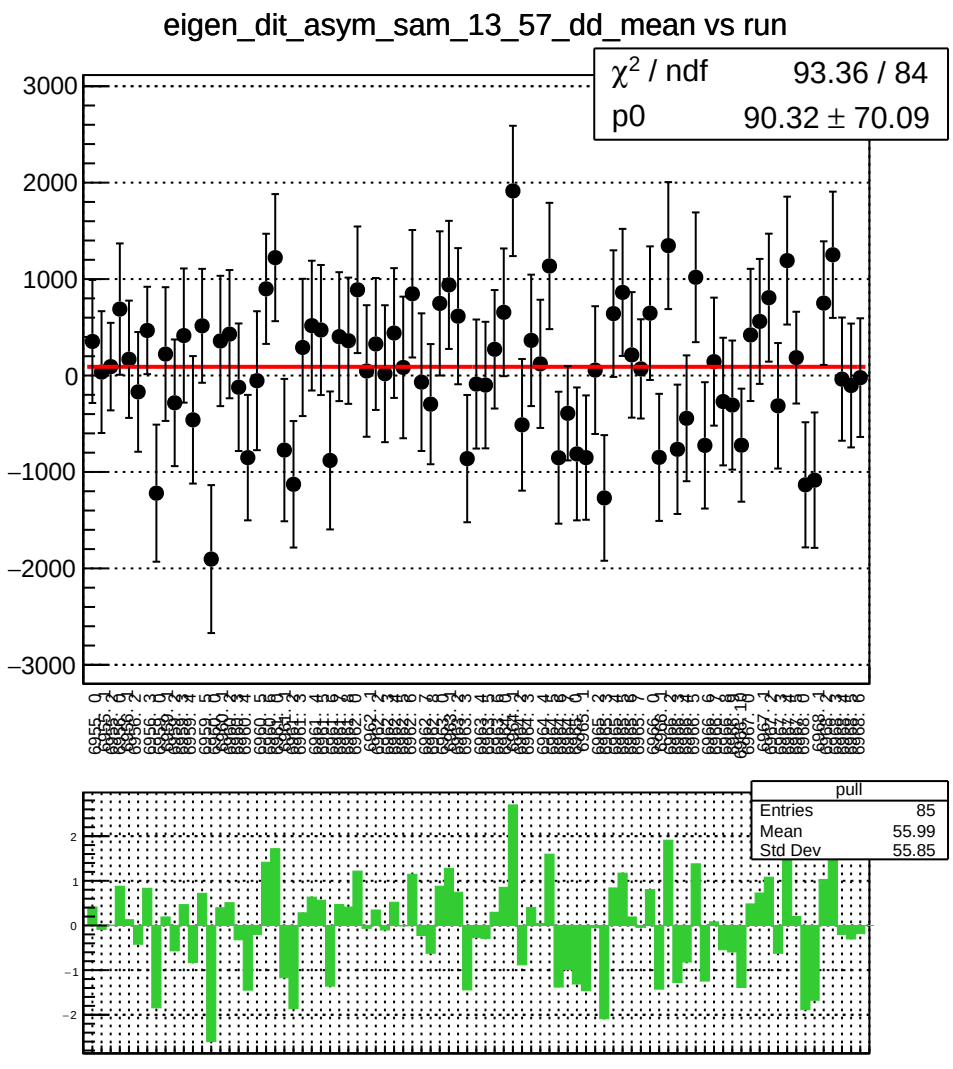

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 93.36 / 84
p0 90.32 ± 70.09
pull
Entries 85
Mean 55.99
Std Dev 55.85

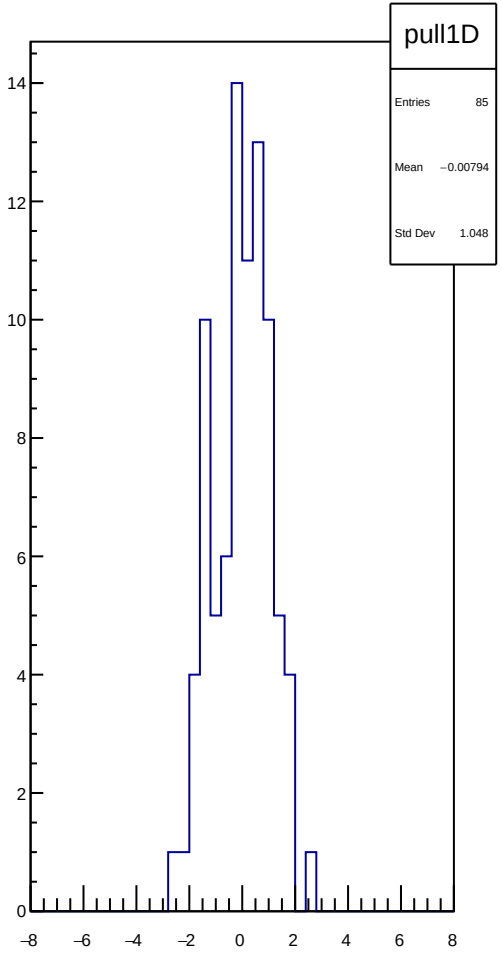

pull1D
Entries 85
Mean −0.00794
Std Dev 1.048

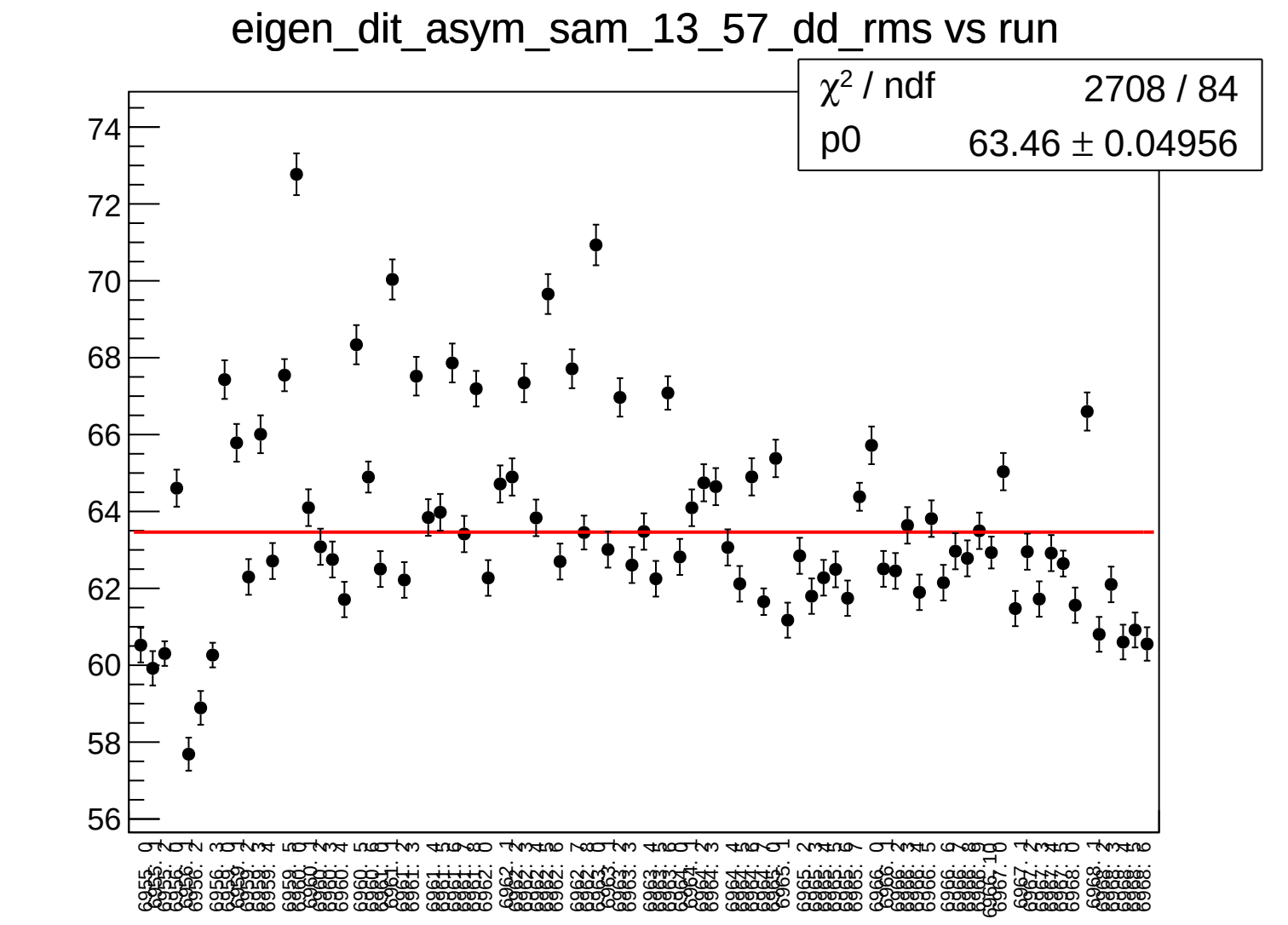

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2708 / 84
p0 63.46 ± 0.04956
74
72
70
68
66
64
62
60
58
56

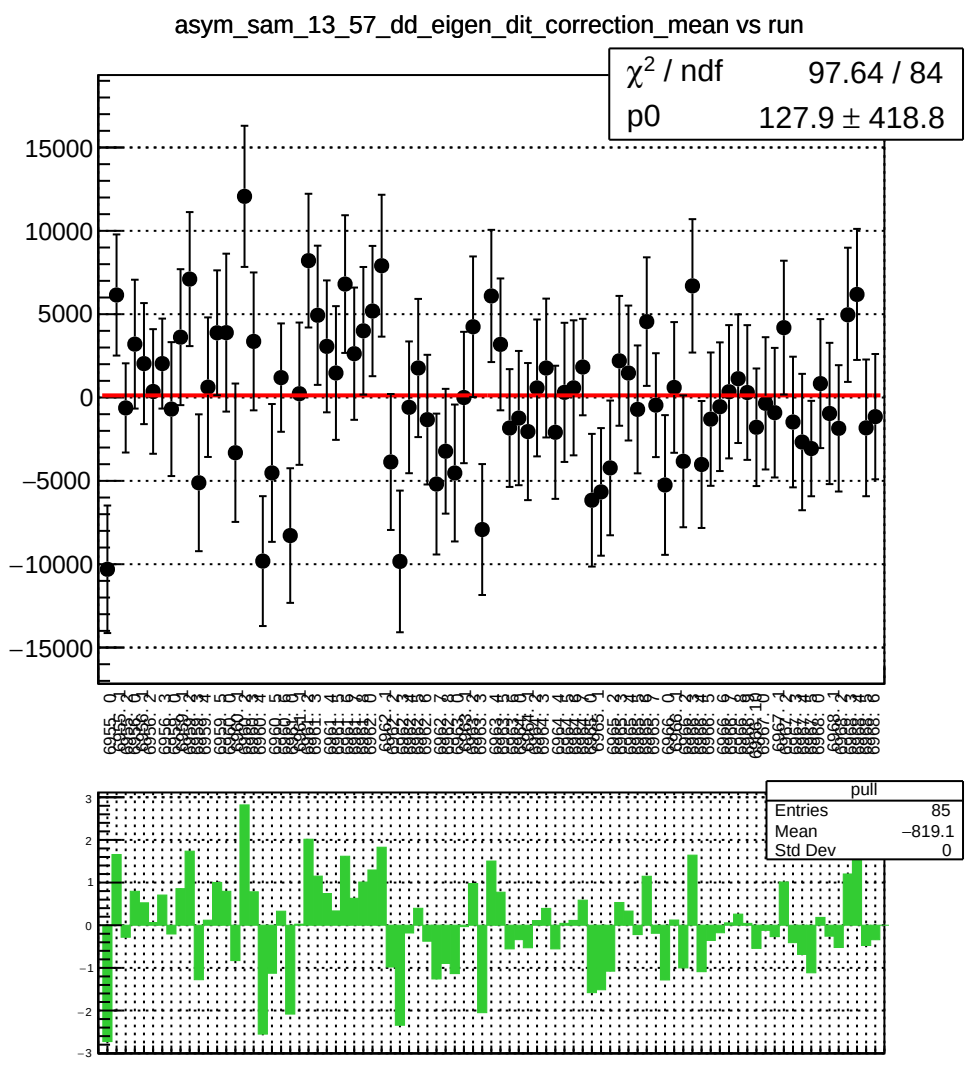

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 97.64 / 84
p0 127.9 ± 418.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −819
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.003468
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

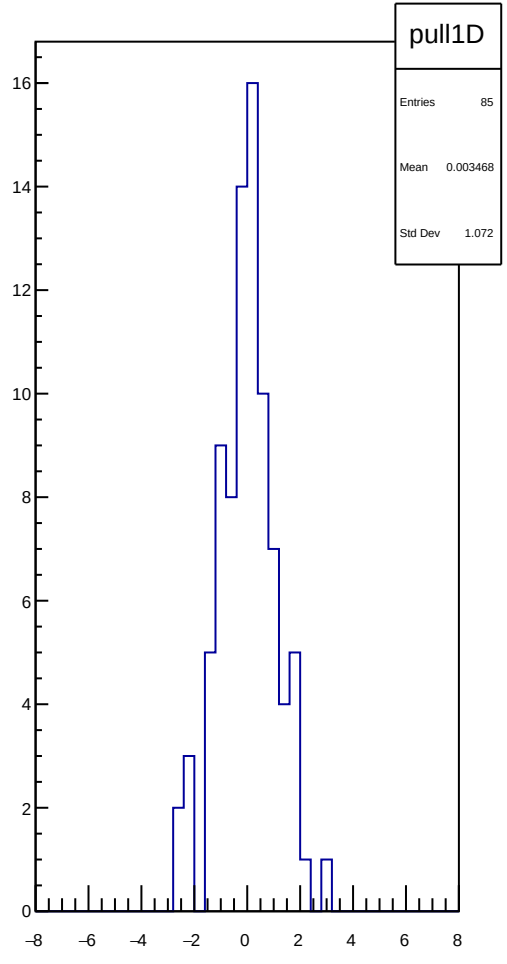

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2851 / 84
p0 379.3 ± 0.2962
460
440
420
400
380
360
340

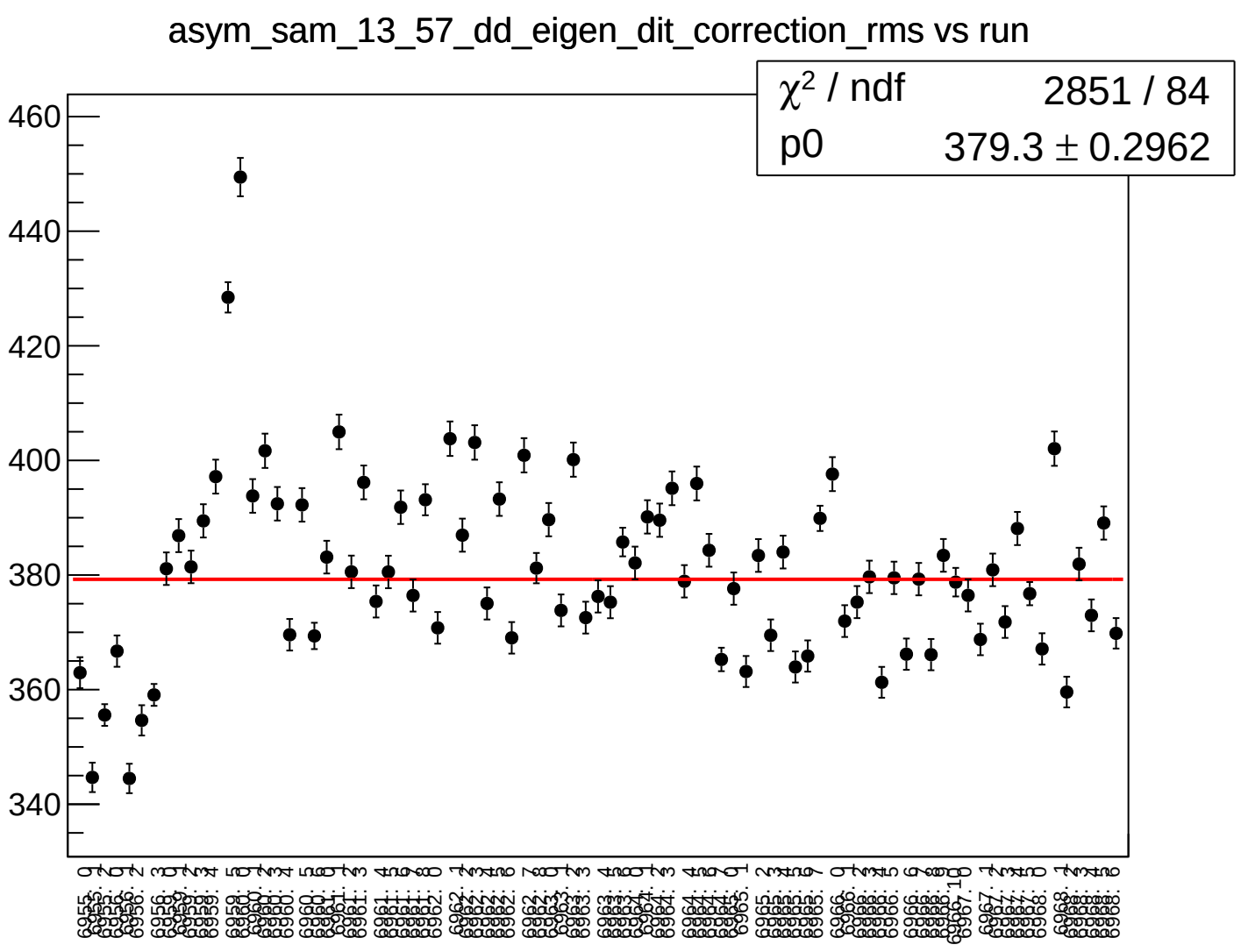

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 93.36 / 84
p0 90.32 ± 70.09
pull
Entries 85
Mean 55.99
Std Dev 55.85

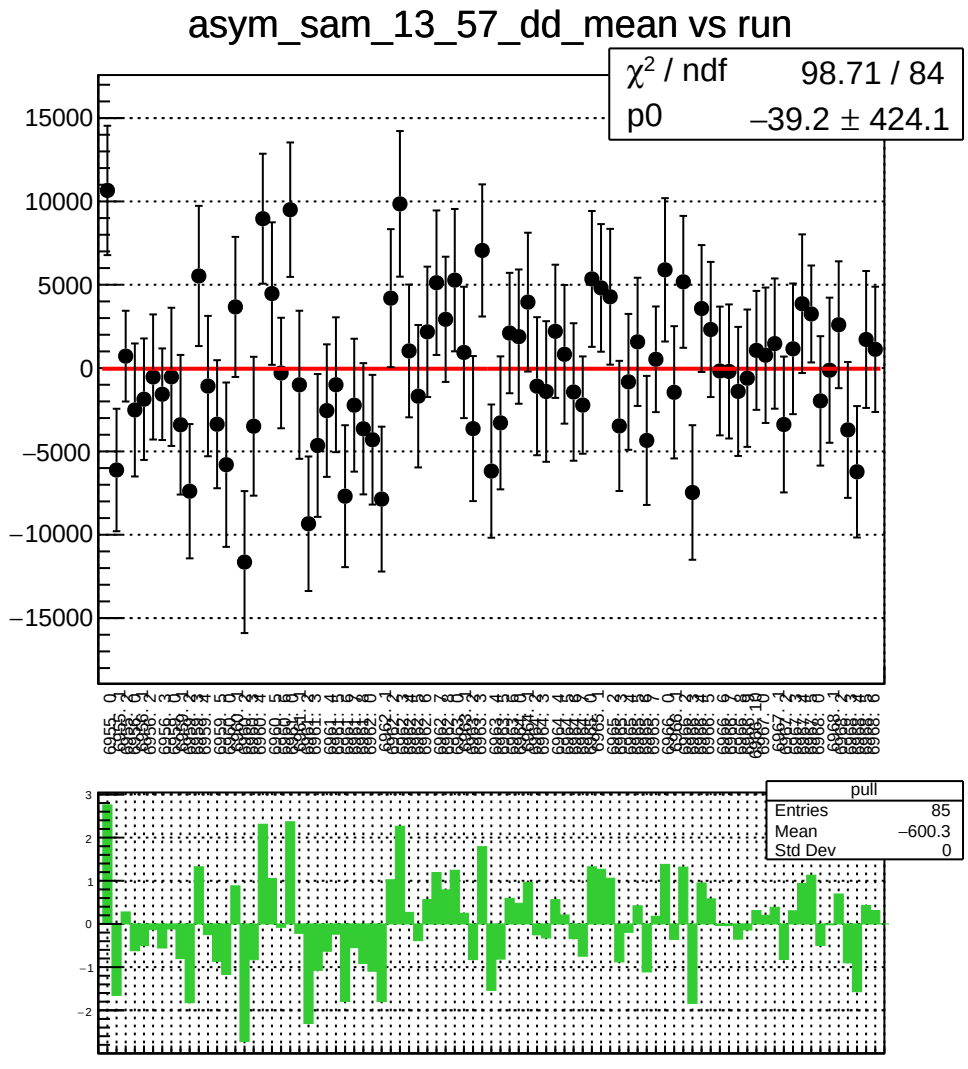

pull1D
Entries 85
Mean −0.00794
Std Dev 1.048

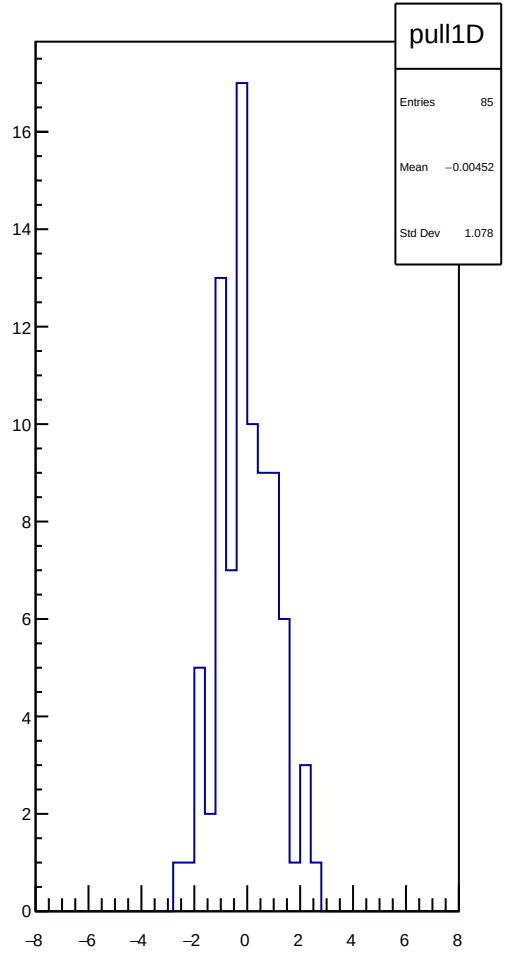

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2708 / 84
p0 63.46 ± 0.04956
74
72
70
68
66
64
62
60
58
56

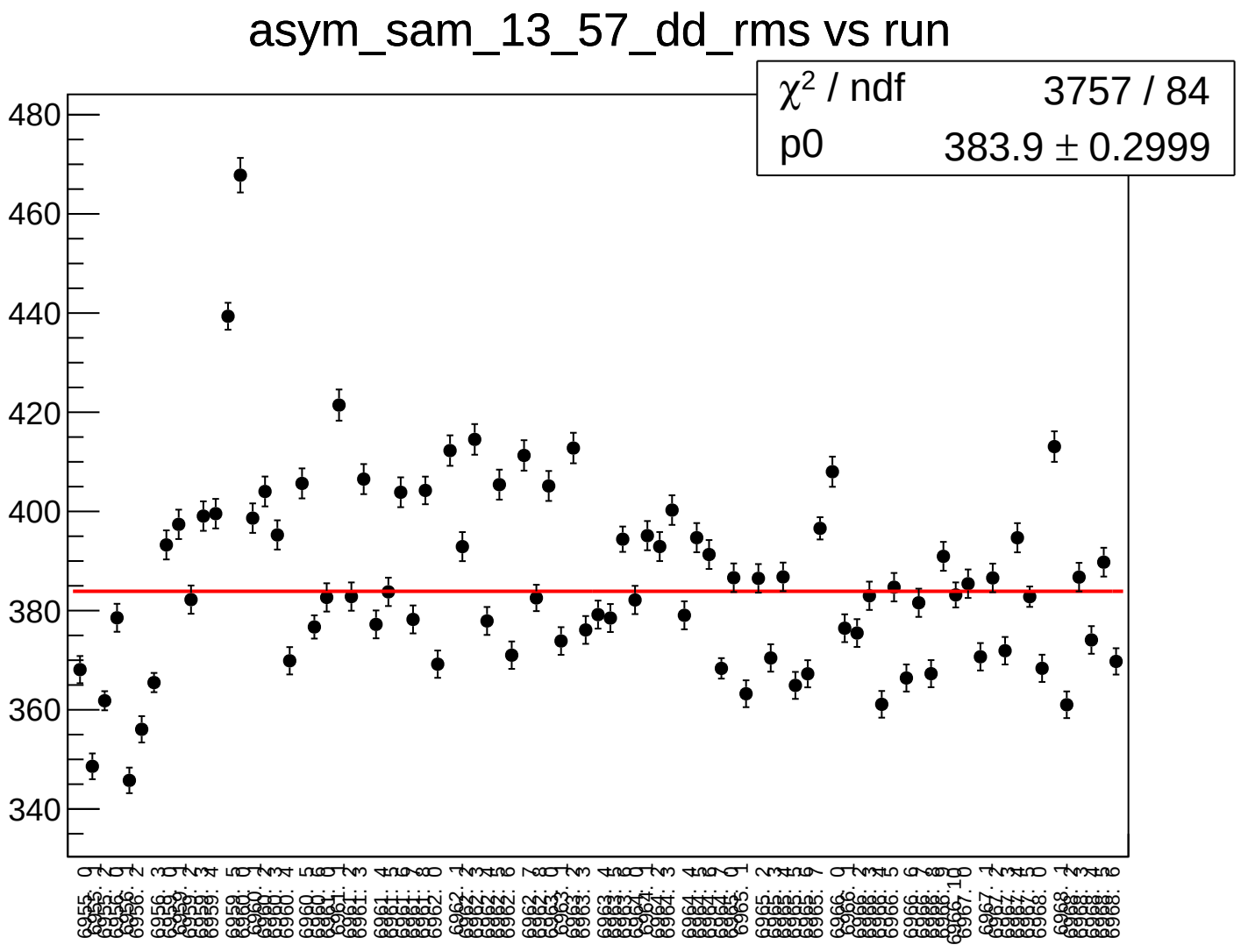

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.64 / 84
p0 127.9 ± 418.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −819.1
Std Dev 0
3
2
1
0
−1
−2
−3

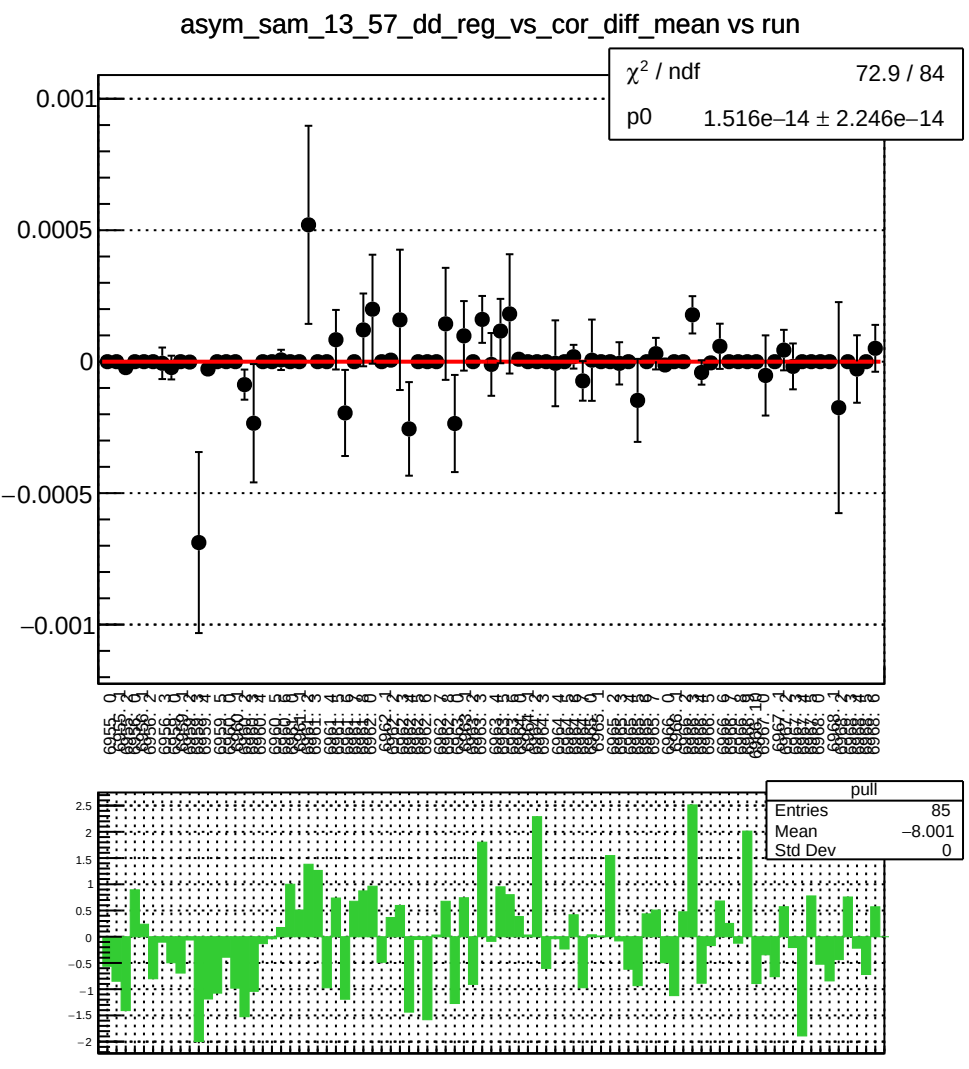

pull1D
Entries 85
Mean 0.003468
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

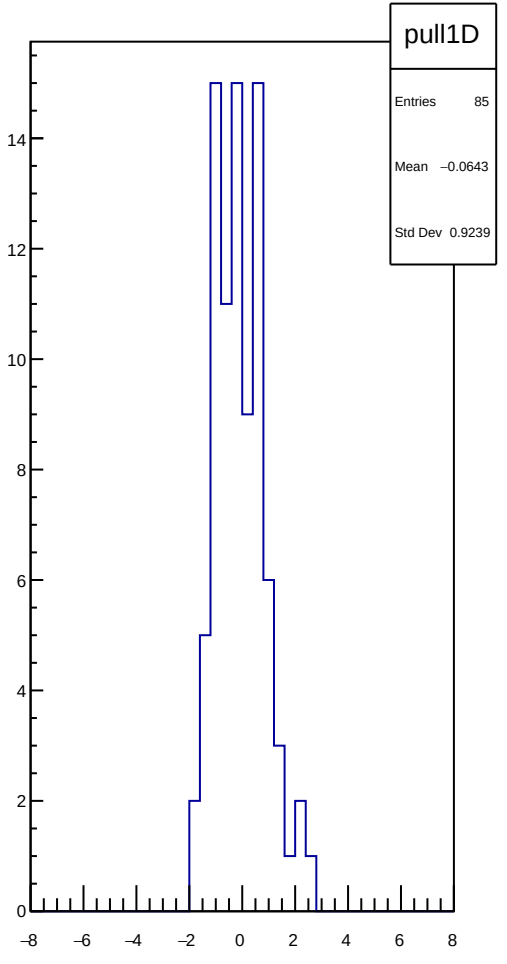

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2851 / 84
p0 379.3 ± 0.2962
460
440
420
400
380
360
340

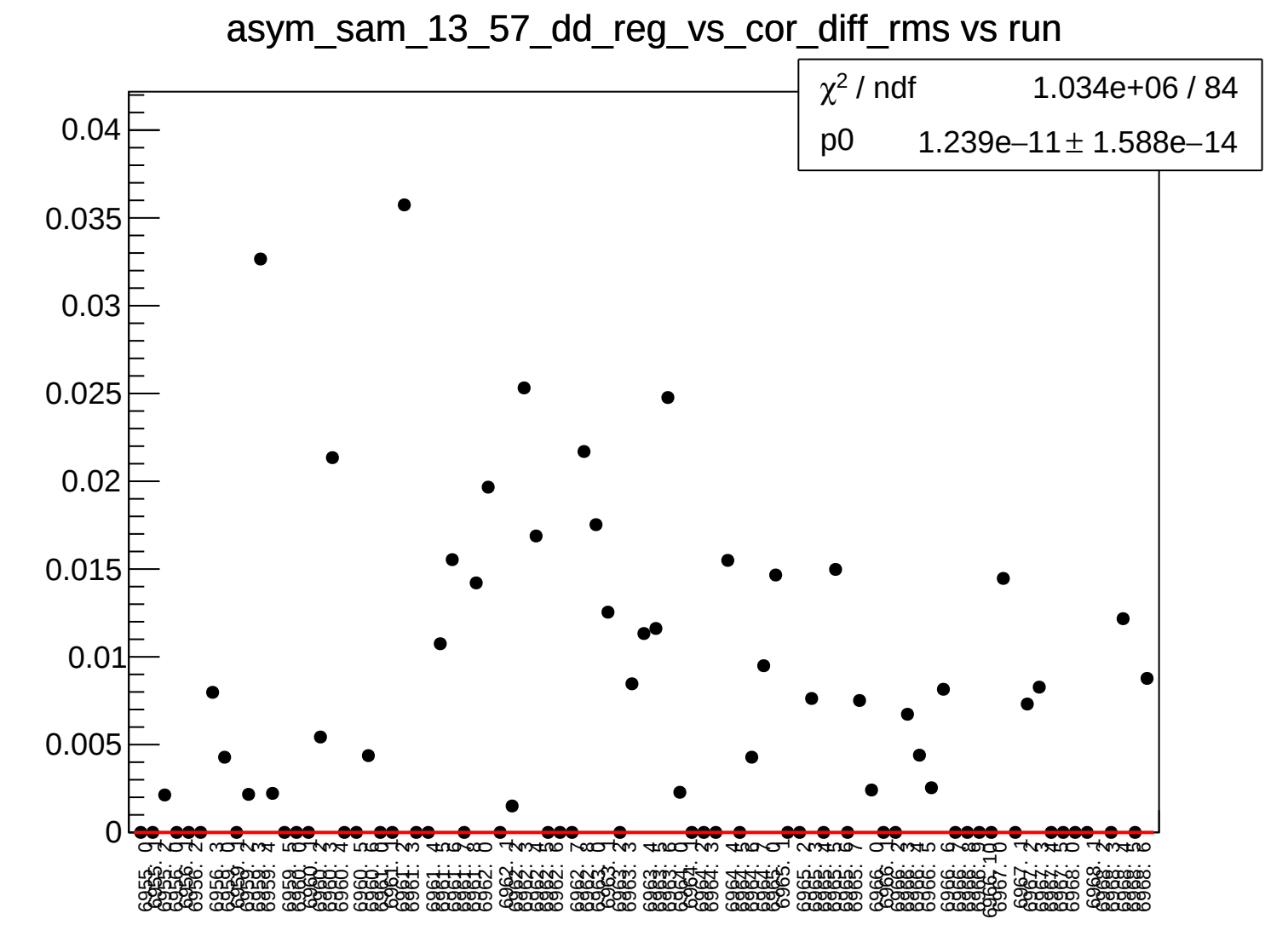

asym_sam_13_57_dd_mean vs run
χ² / ndf 98.71 / 84
p0 −39.2 ± 424.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −600.3
Std Dev 0
3
2
1
0
−1
−2

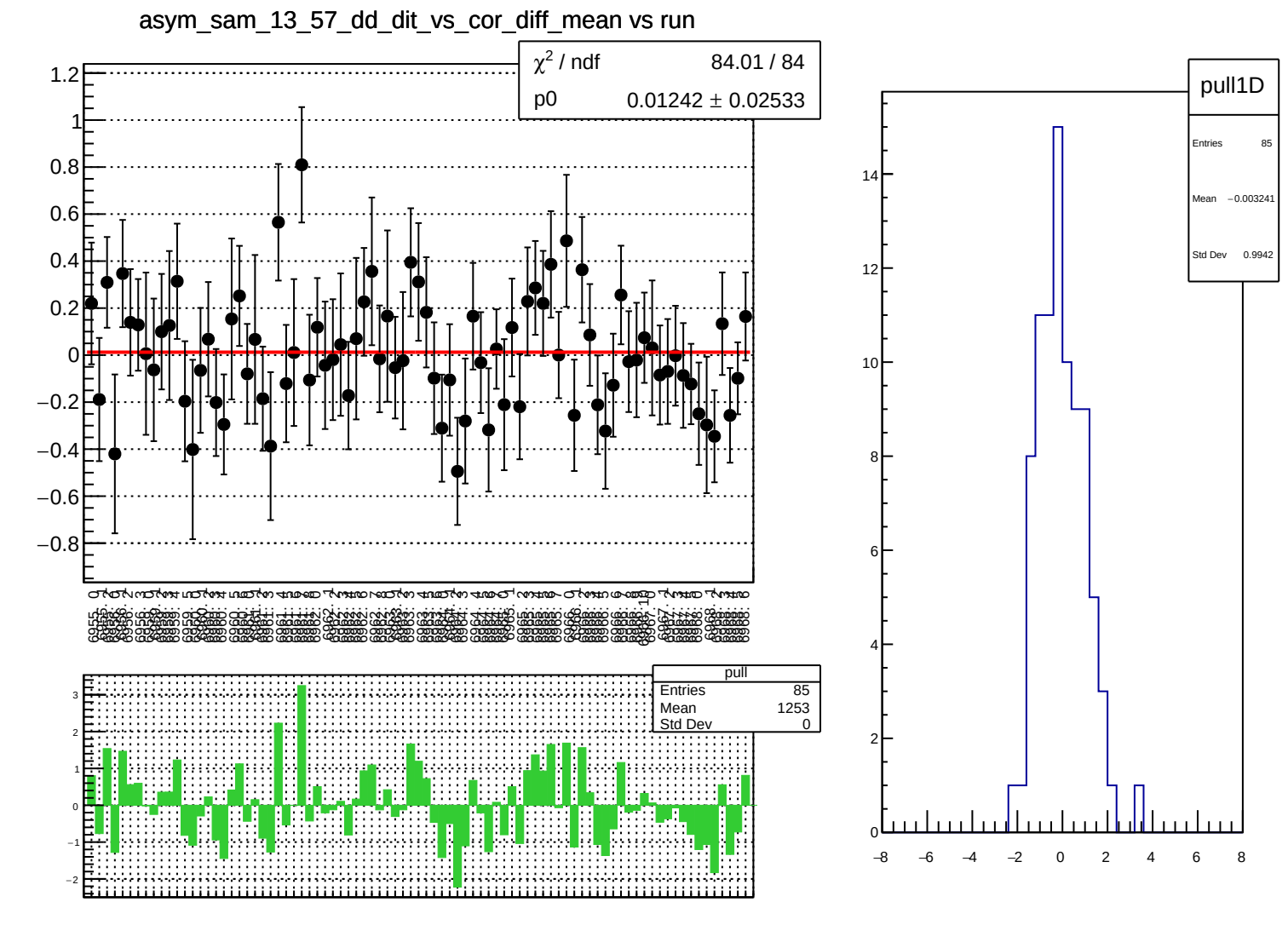

pull1D
Entries 85
Mean −0.00452
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

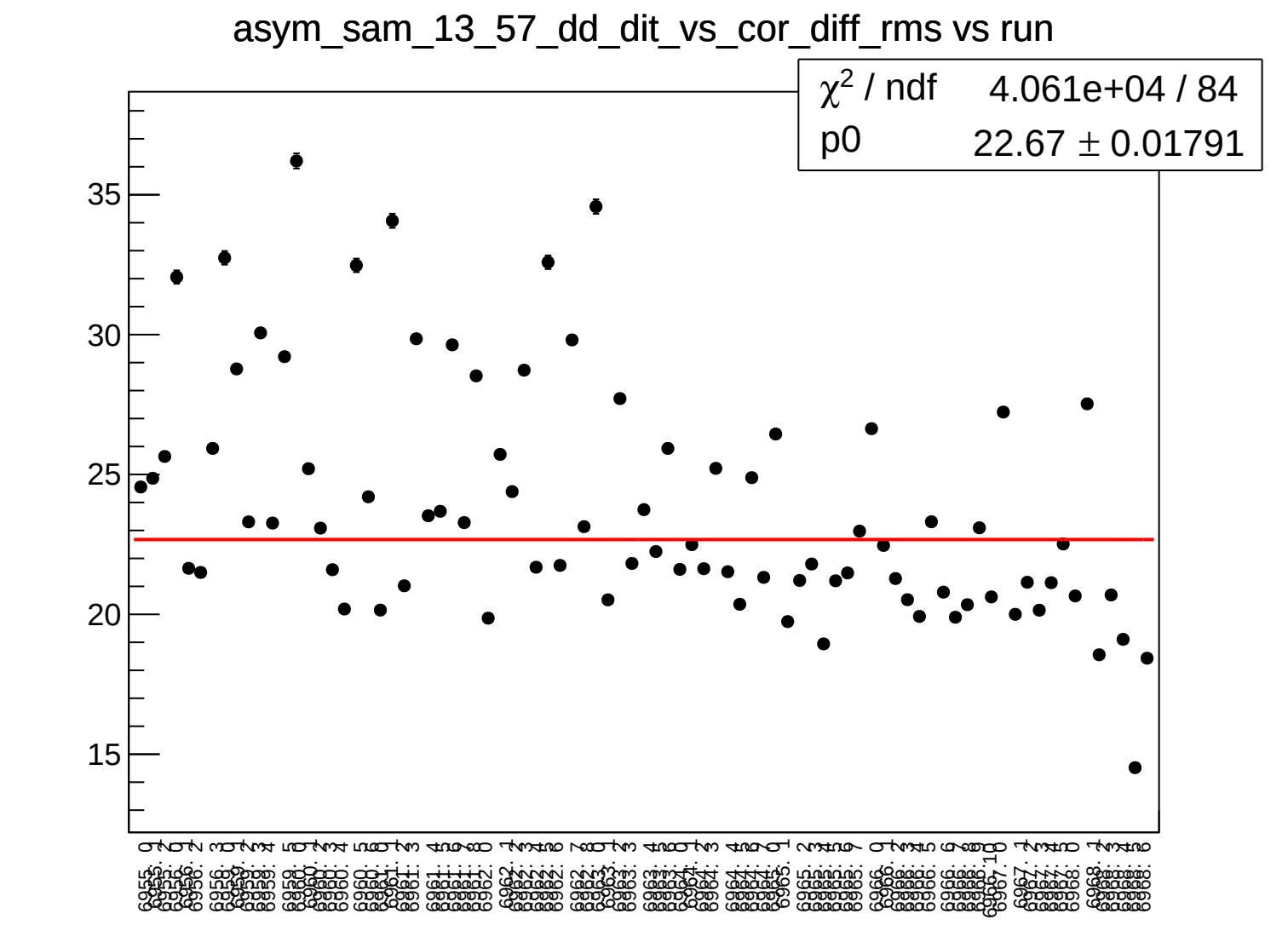

asym_sam_13_57_dd_rms vs run
χ² / ndf 3757 / 84
p0 383.9 ± 0.2999
480
460
440
420
400
380
360
340

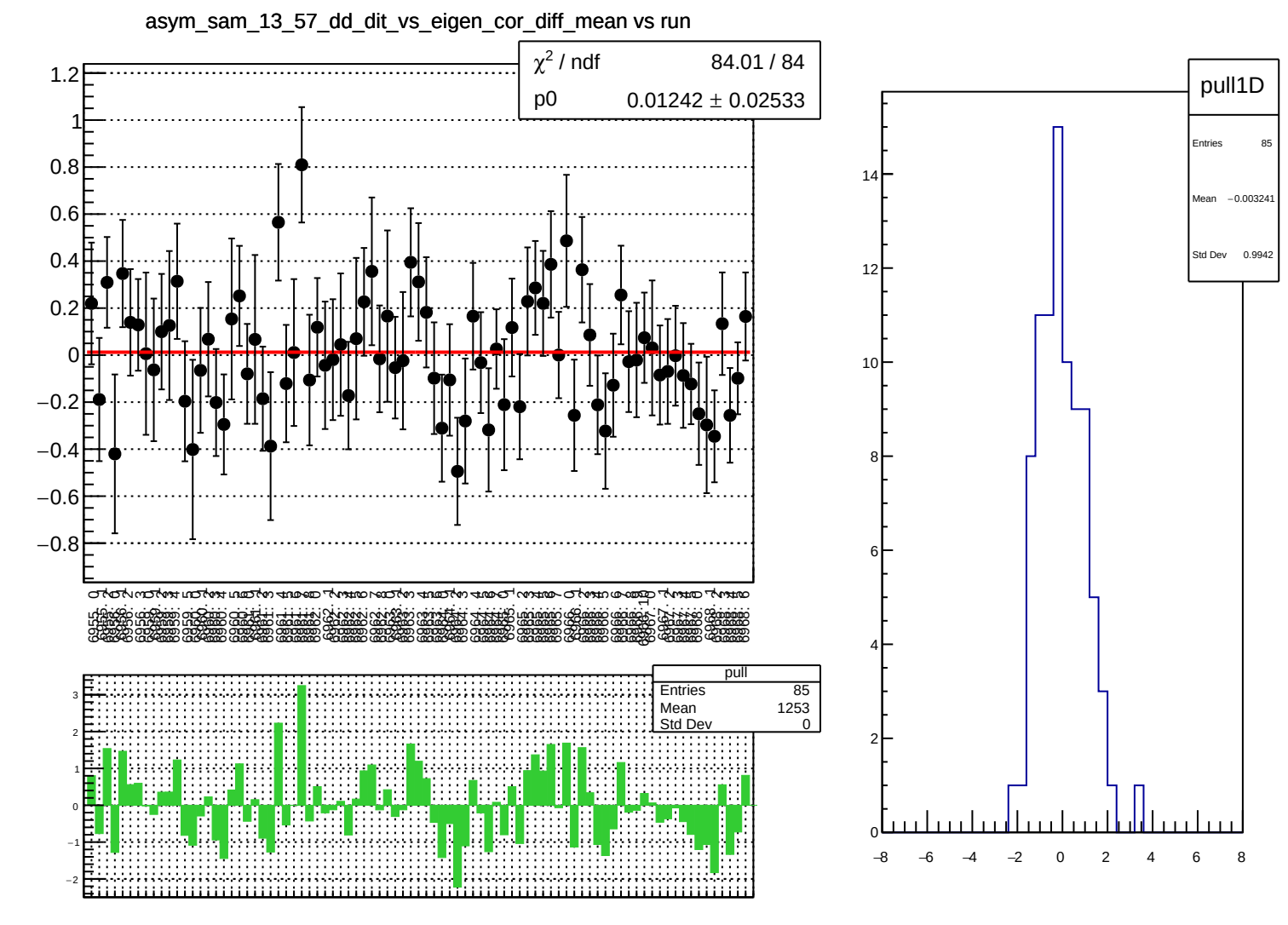

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.9 / 84
p0 1.516e−14 ± 2.246e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean −8.001
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

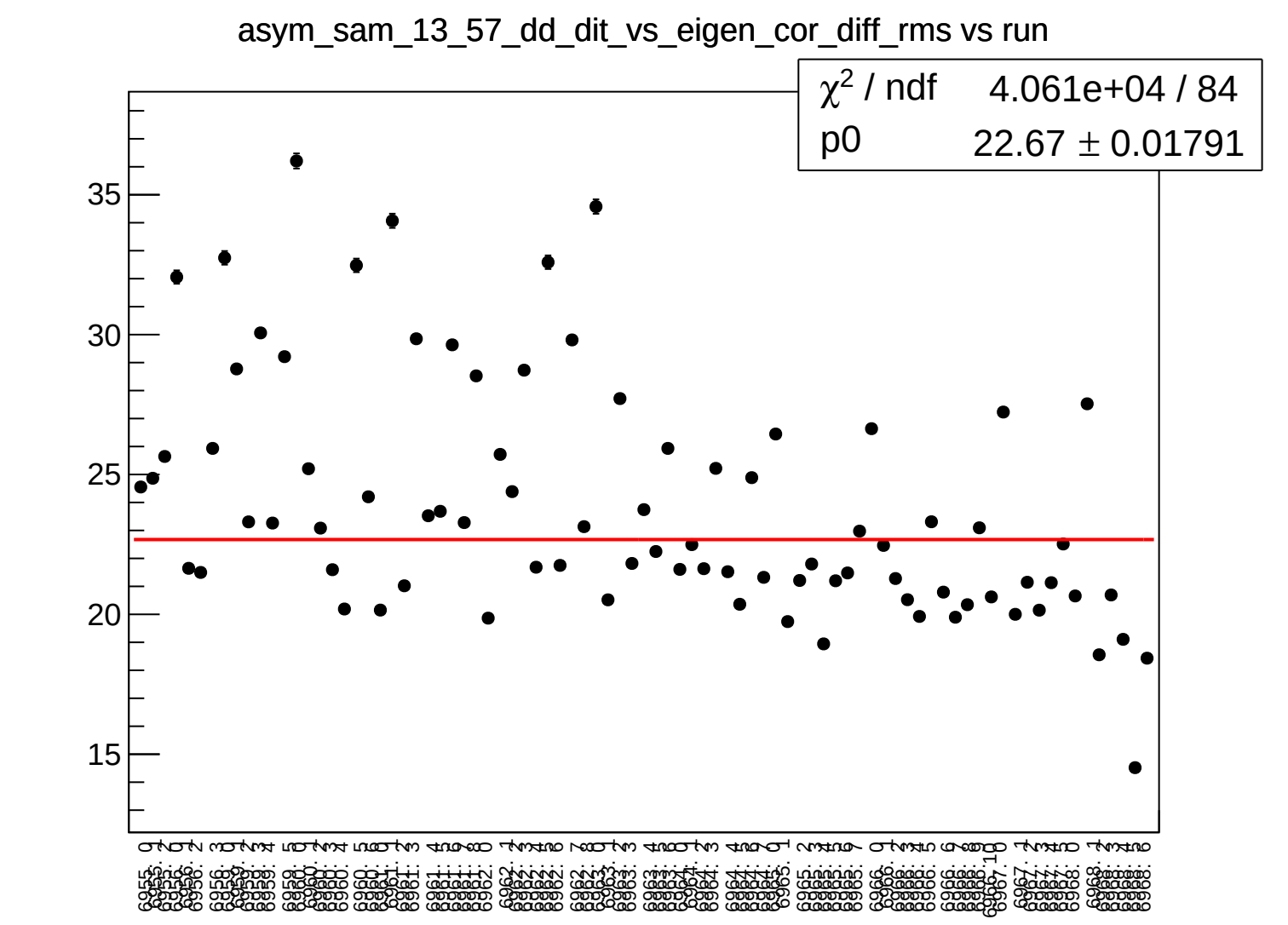

pull1D
Entries 85
Mean −0.0643
Std Dev 0.9239
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

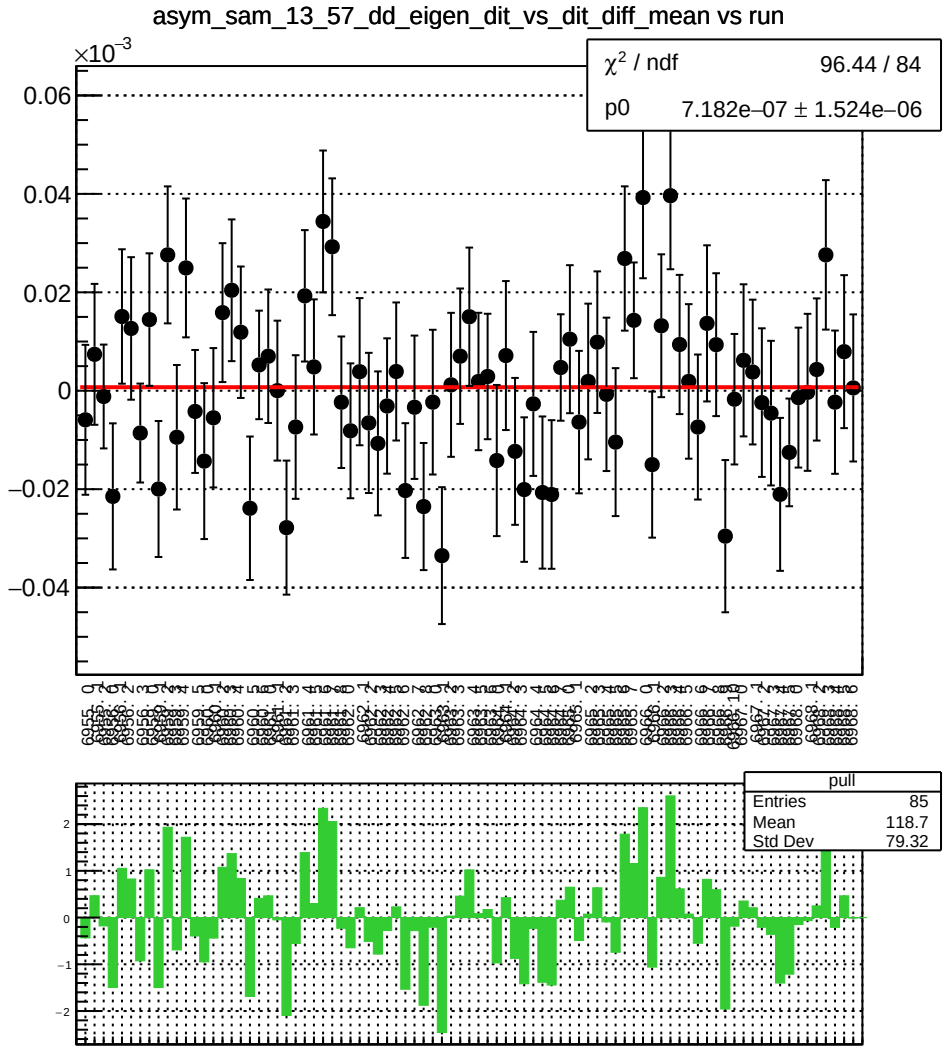

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 84
p0 1.239e−11 ± 1.588e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

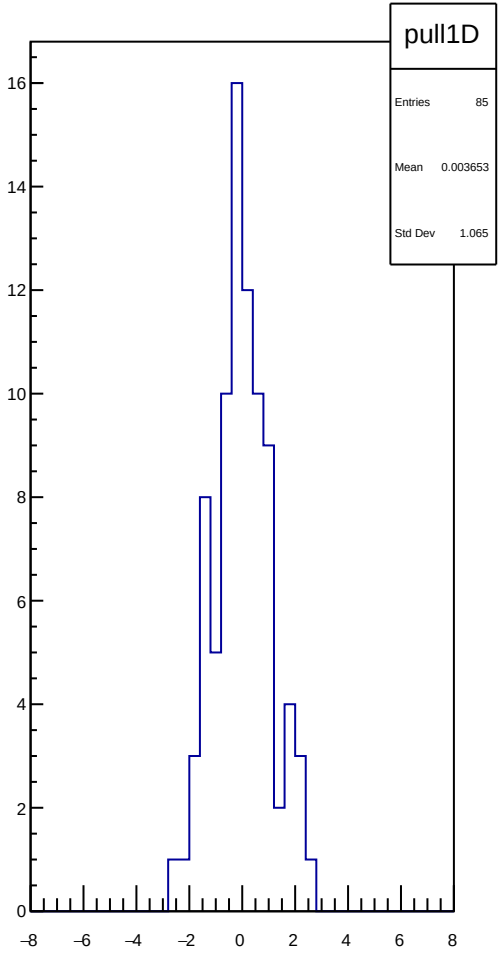

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.01 / 84
p0 0.01242 ± 0.02533
pull
Entries 85
Mean 1253
Std Dev 0
pull1D
Entries 85
Mean −0.003241
Std Dev 0.9942

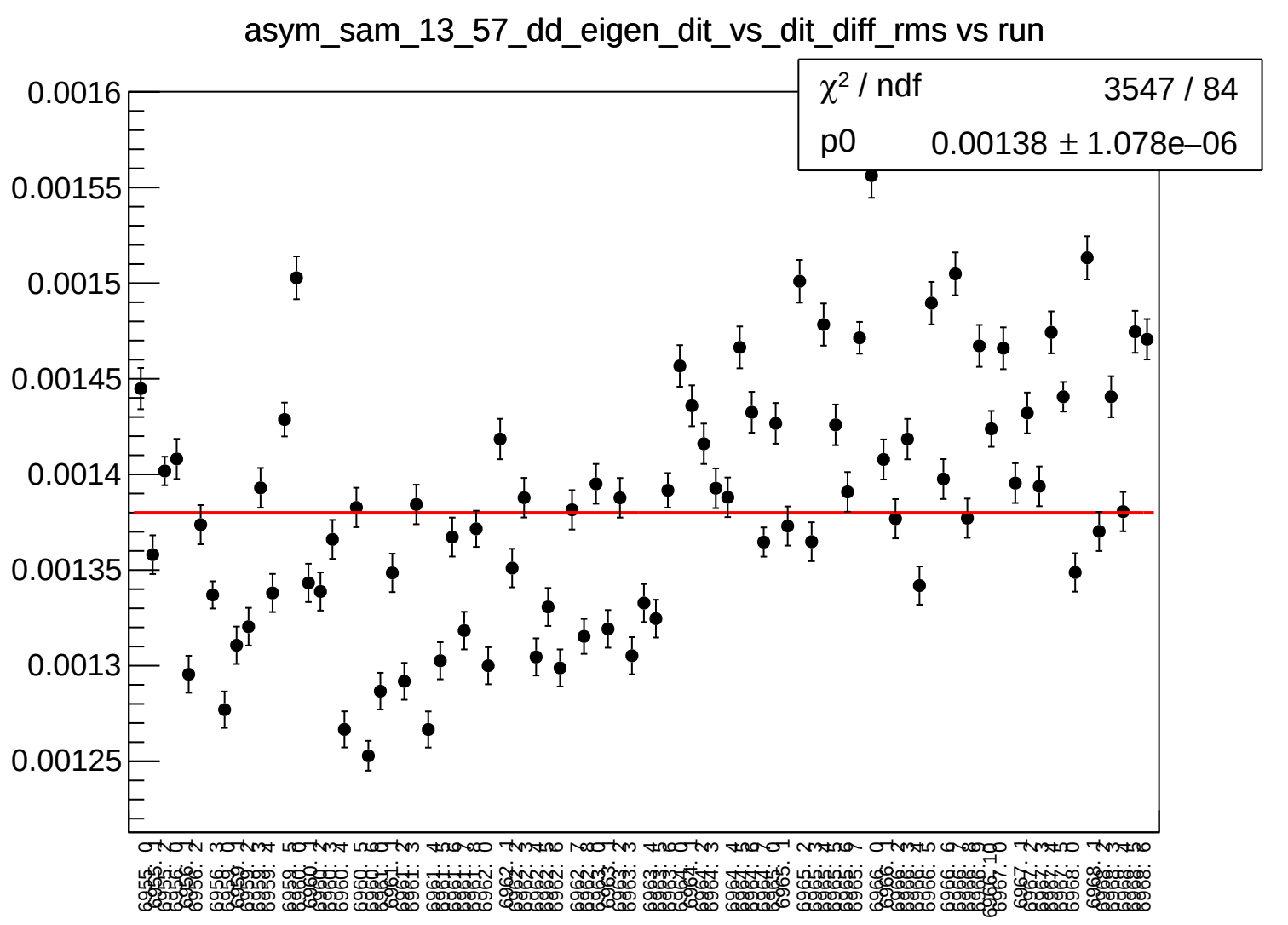

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.061e+04 / 84
p0 22.67 ± 0.01791
35
30
25
20
15

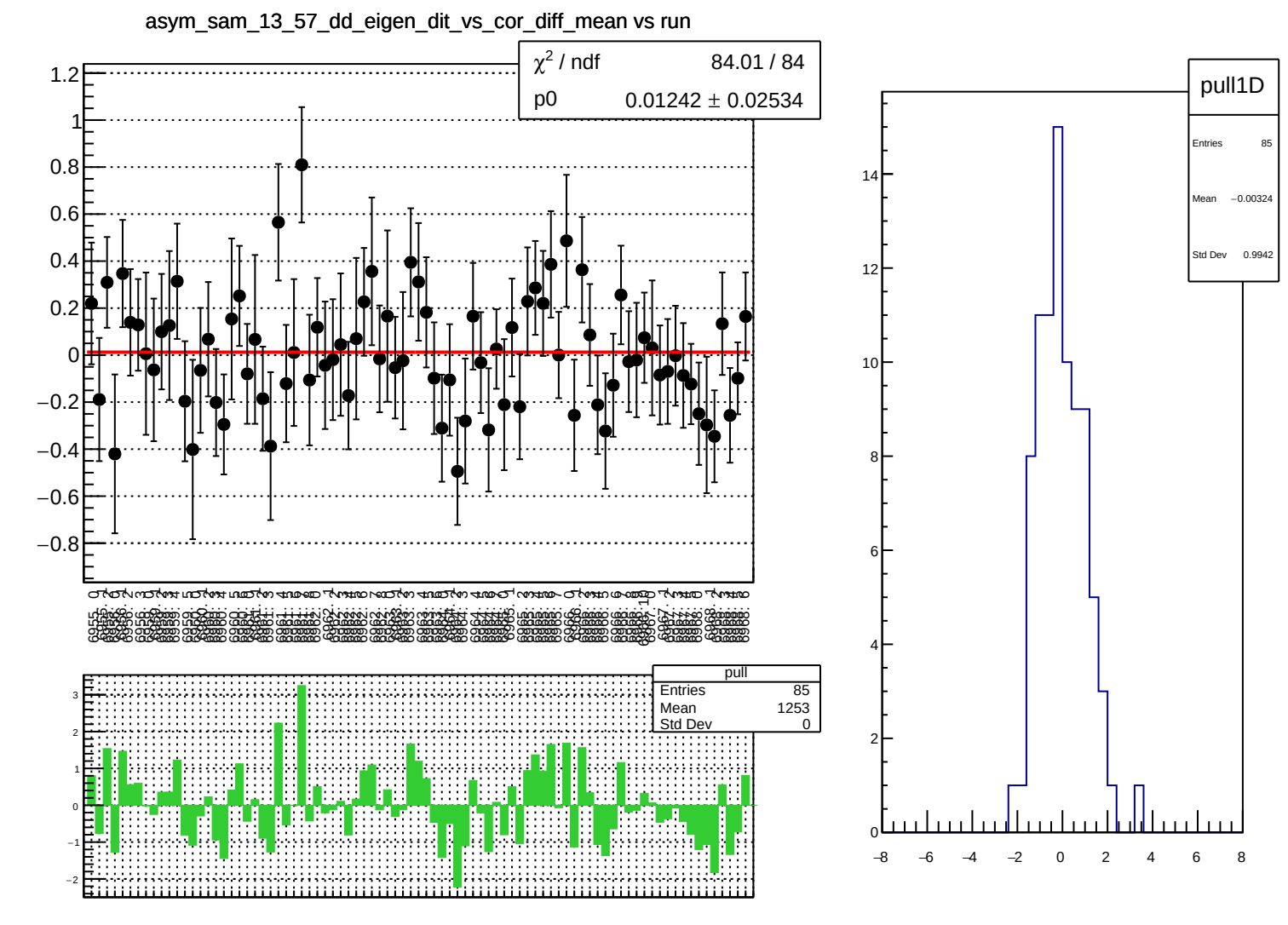

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.01 / 84
p0 0.01242 ± 0.02533
pull
Entries 85
Mean 1253
Std Dev 0
pull1D
Entries 85
Mean −0.003241
Std Dev 0.9942

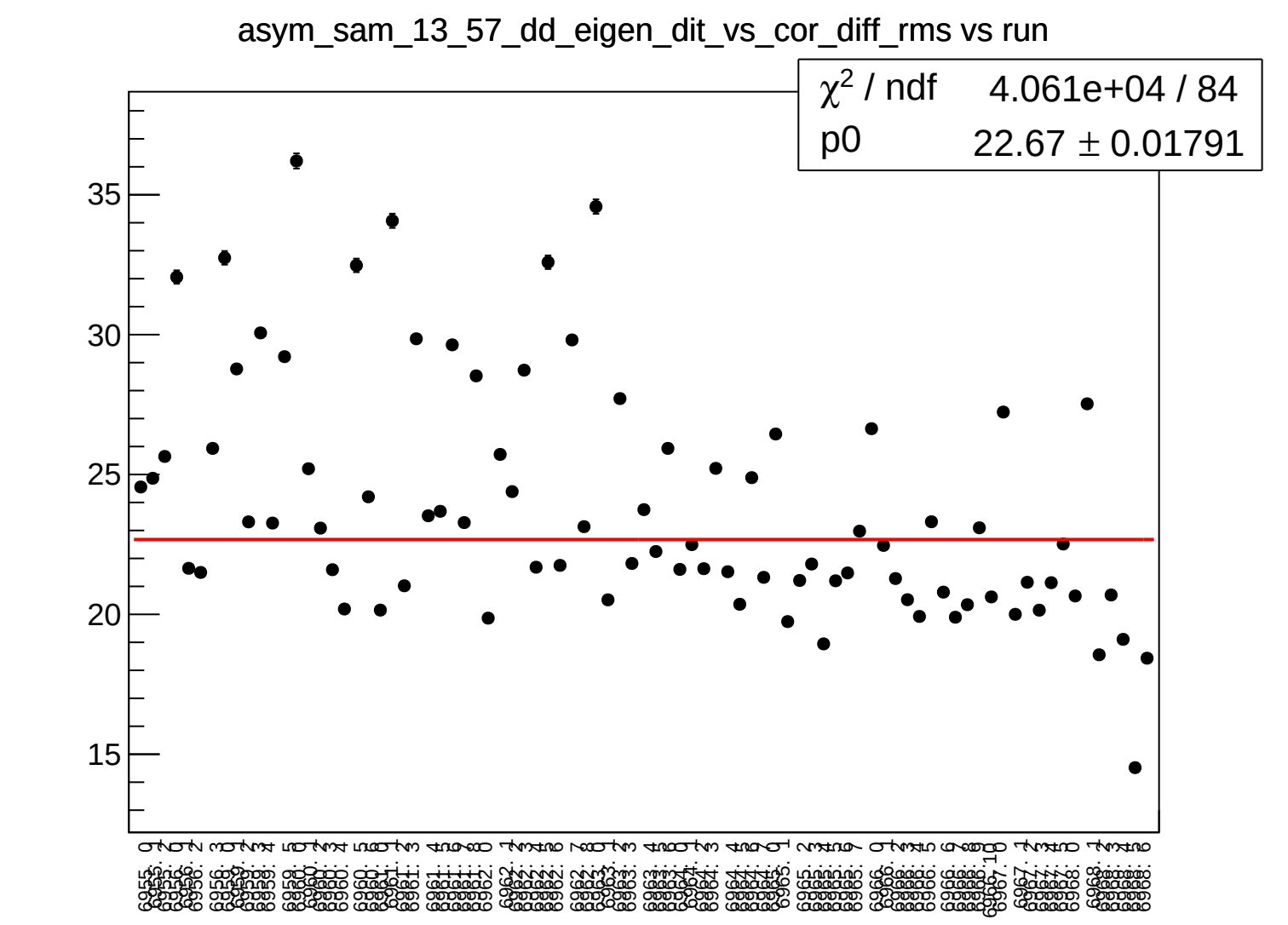

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.061e+04 / 84
p0 22.67 ± 0.01791
35
30
25
20
15

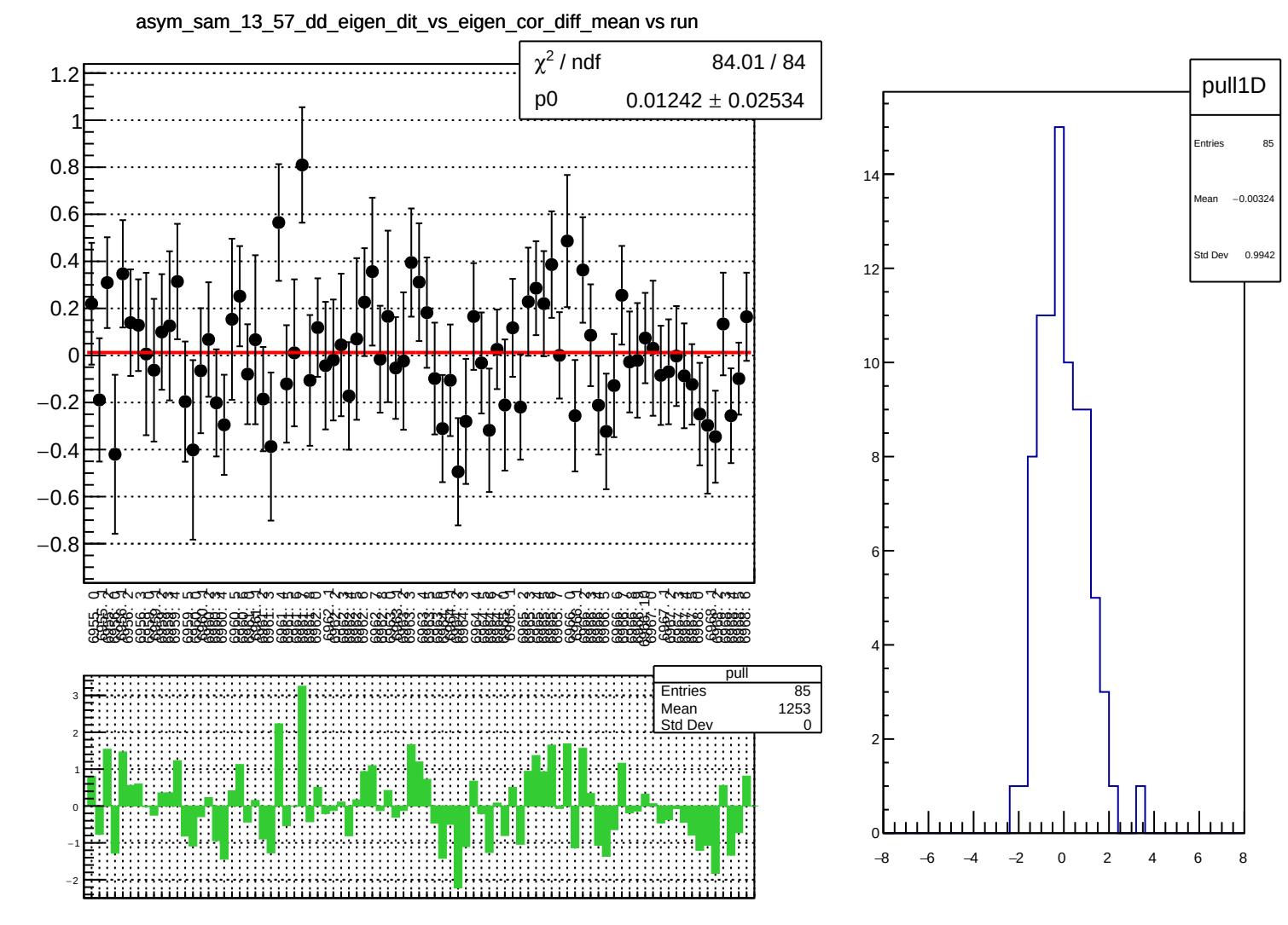

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.44 / 84
p0 7.182e−07 ± 1.524e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 85
Mean 118.7
Std Dev 79.32
2
1
0
−1
−2

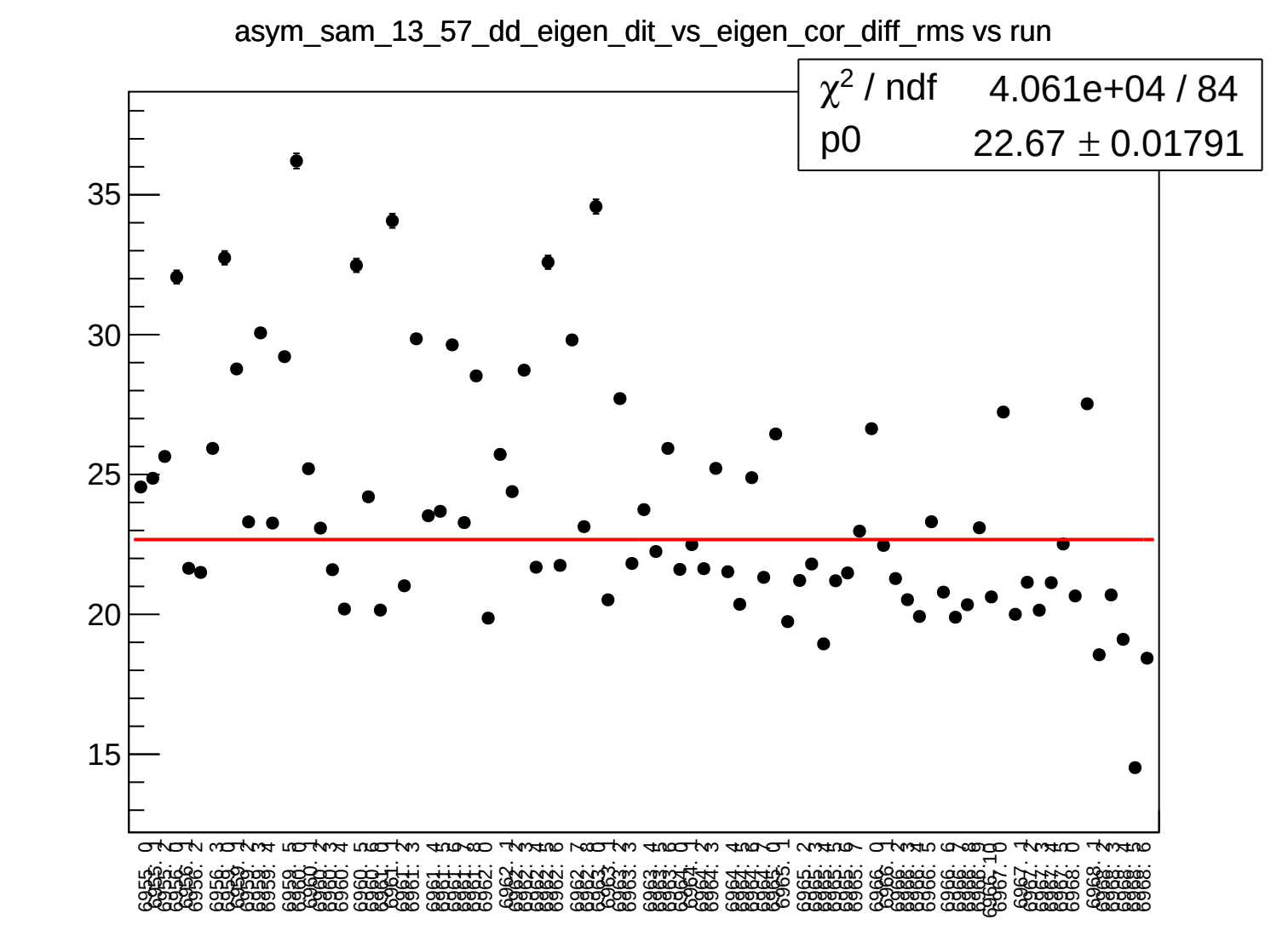

pull1D
Entries 85
Mean 0.003653
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

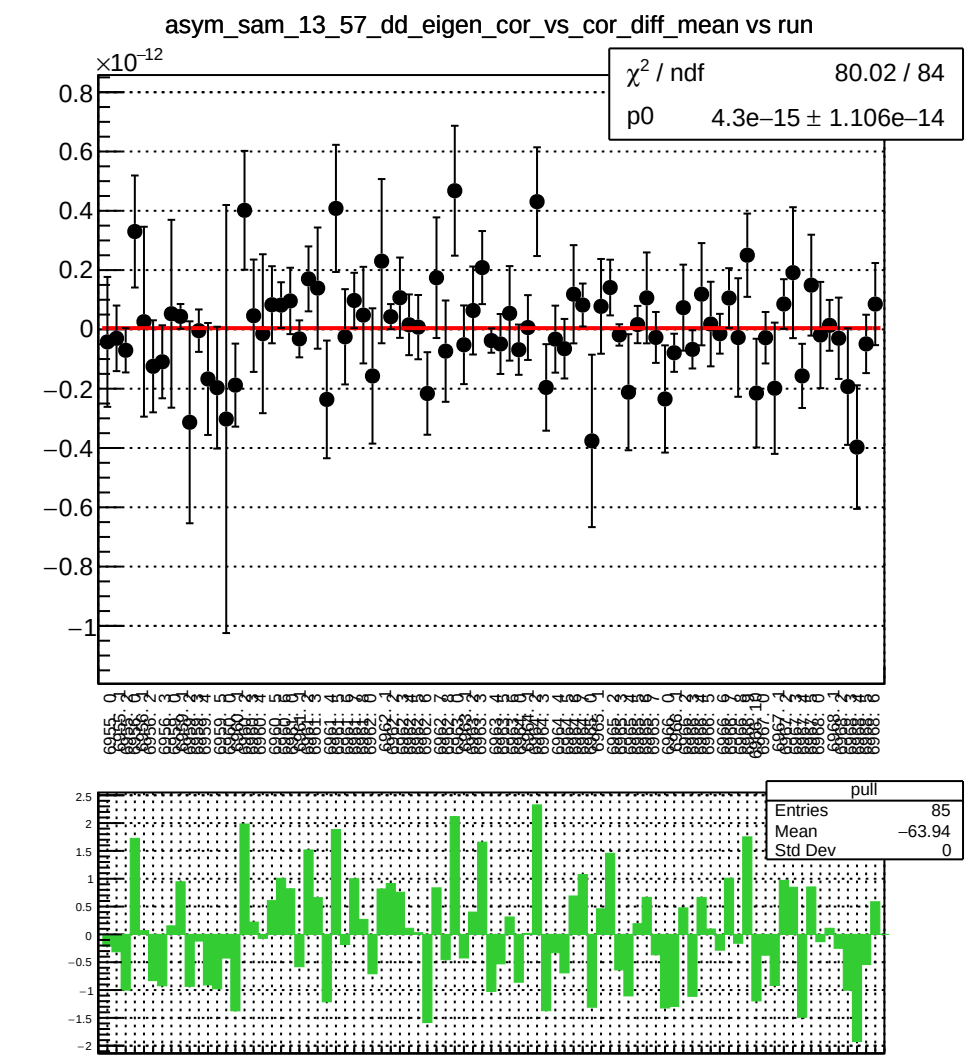

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3547 / 84
p0 0.00138 ± 1.078e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125

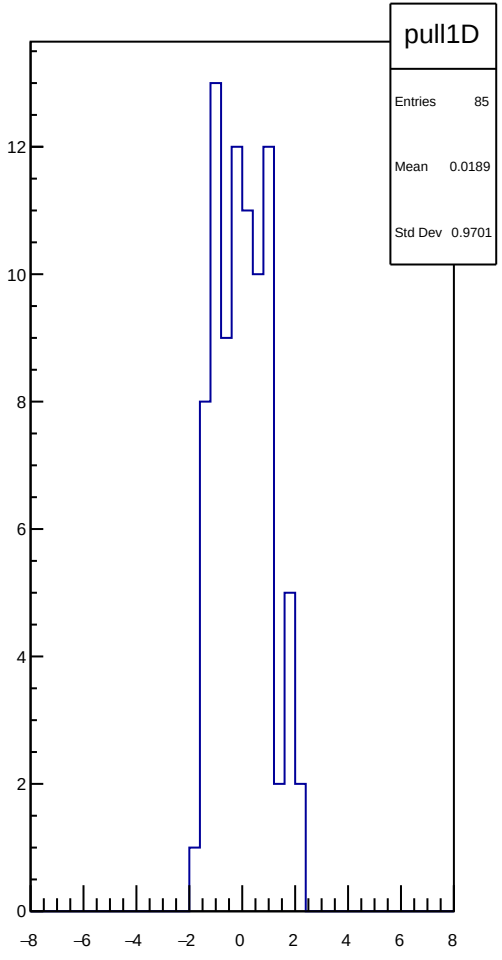

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.01 / 84
p0 0.01242 ± 0.02534
pull
Entries 85
Mean 1253
Std Dev 0
pull1D
Entries 85
Mean −0.00324
Std Dev 0.9942

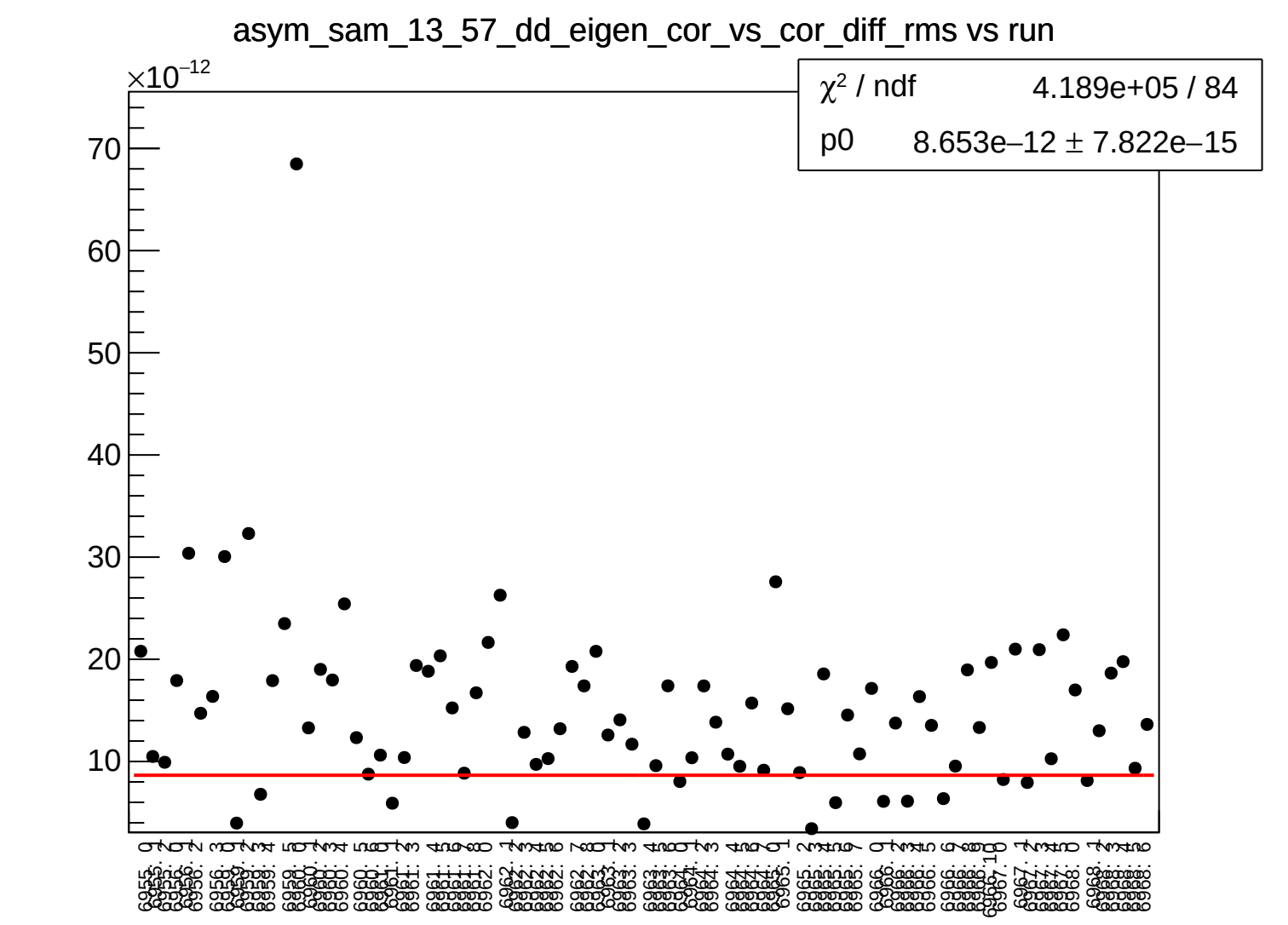

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.061e+04 / 84
p0 22.67 ± 0.01791
35
30
25
20
15

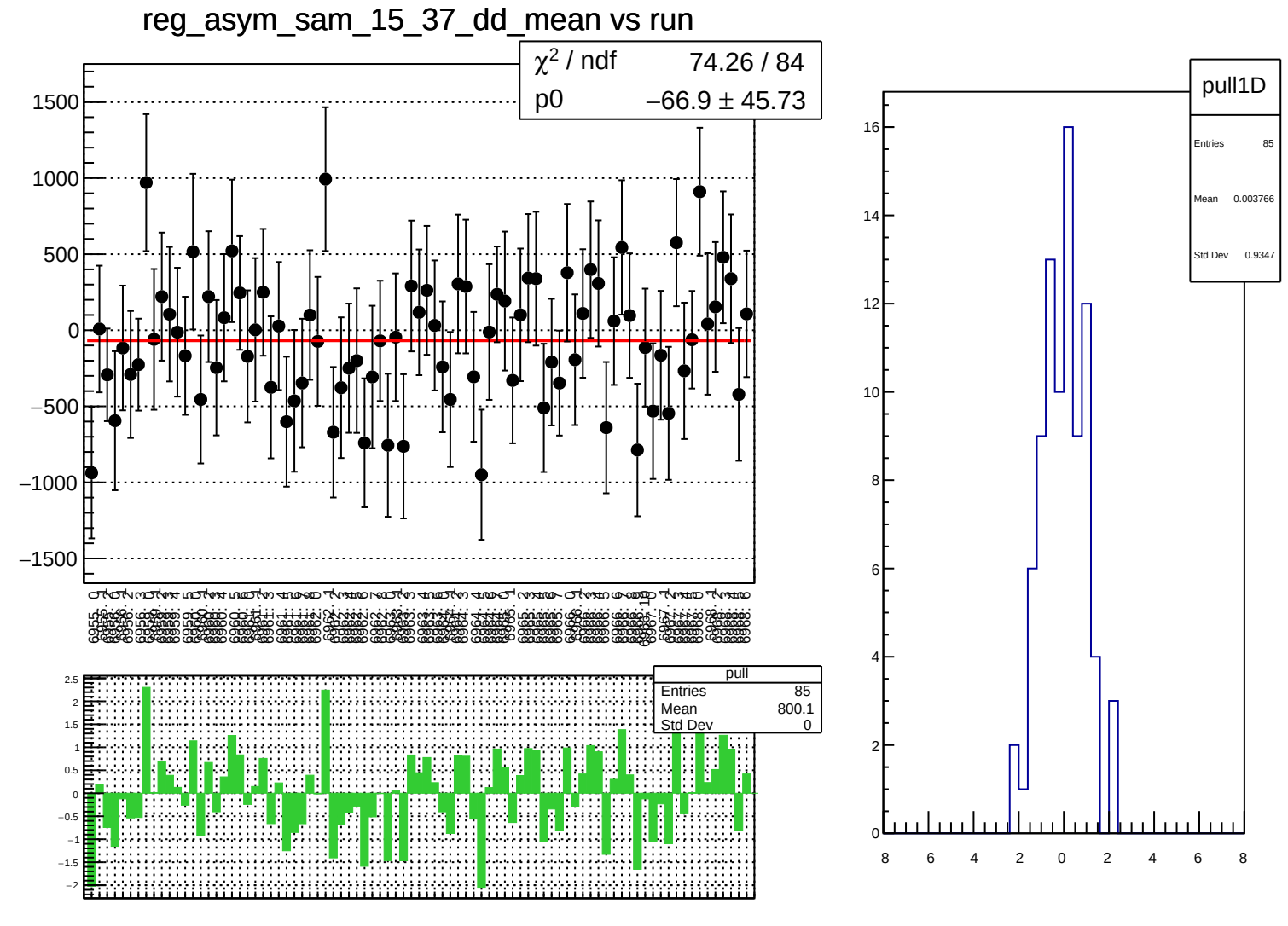

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.01 / 84
p0 0.01242 ± 0.02534
pull
Entries 85
Mean 1253
Std Dev 0
pull1D
Entries 85
Mean −0.00324
Std Dev 0.9942

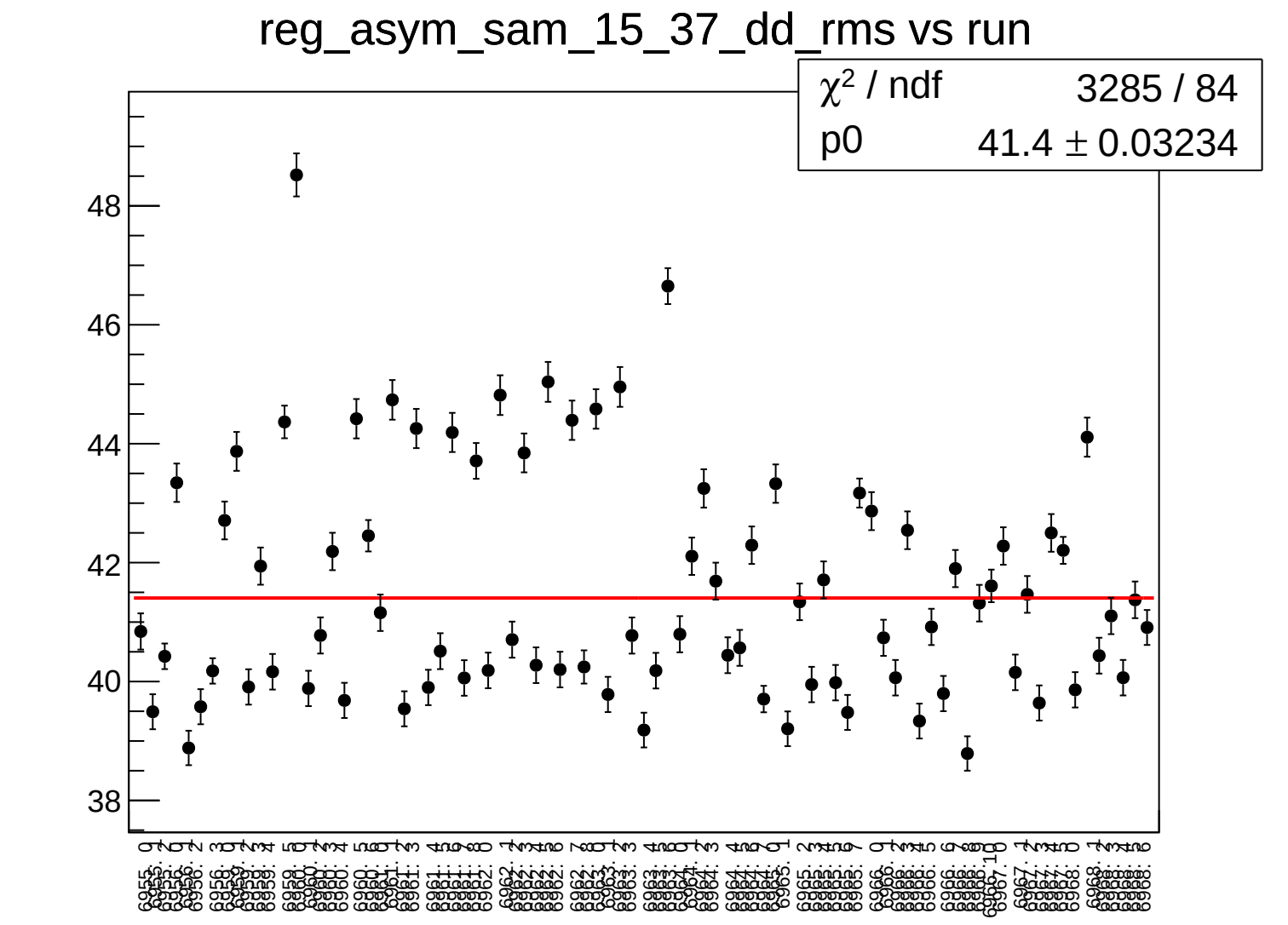

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.061e+04 / 84
p0 22.67 ± 0.01791
35
30
25
20
15

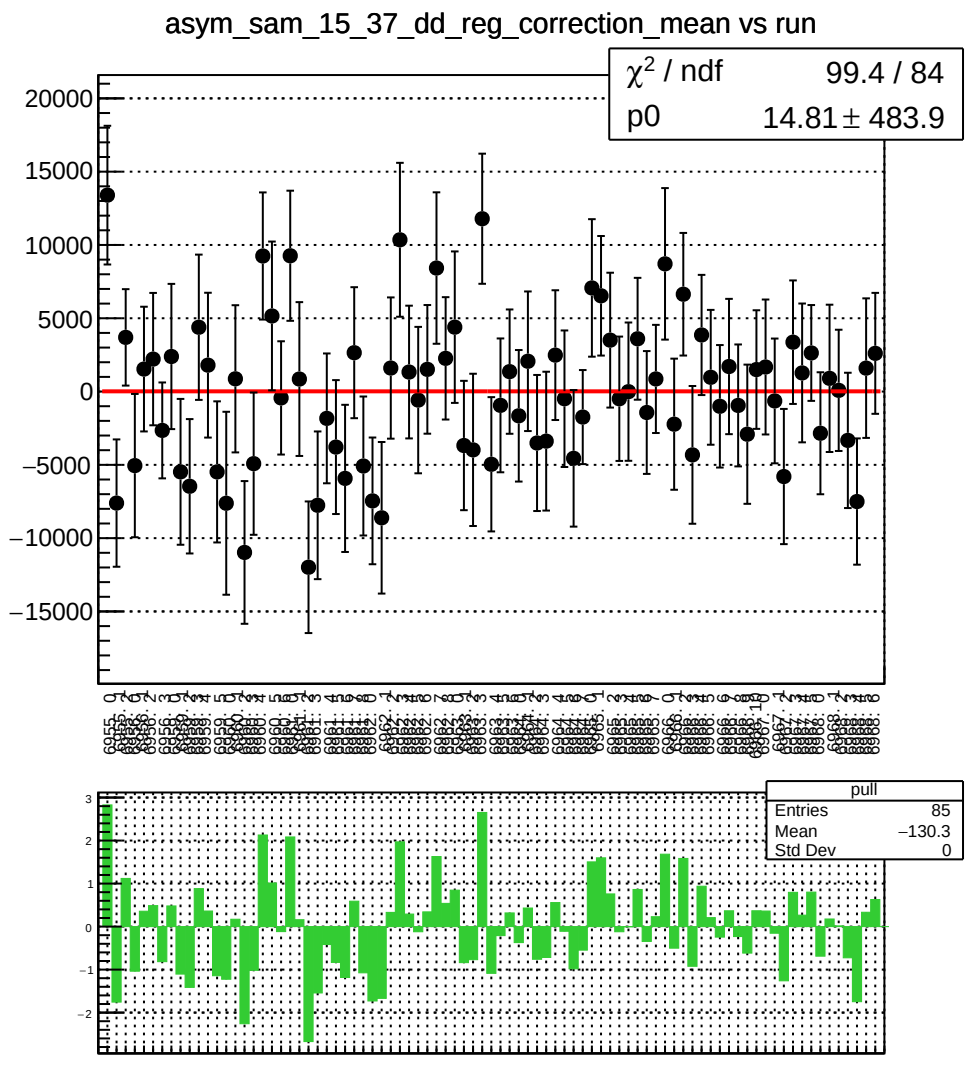

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 80.02 / 84
p0 4.3e−15 ± 1.106e−14
pull
Entries 85
Mean −63.94
Std Dev 0

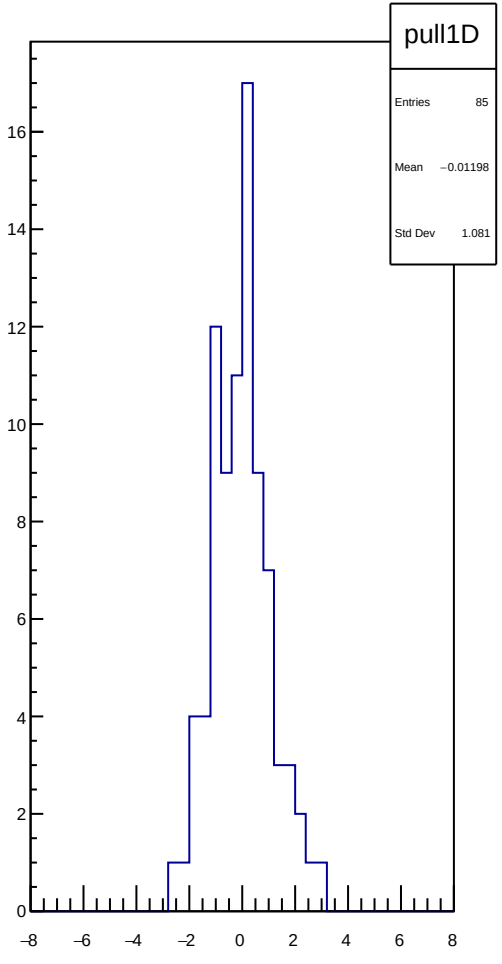

pull1D
Entries 85
Mean 0.0189
Std Dev 0.9701

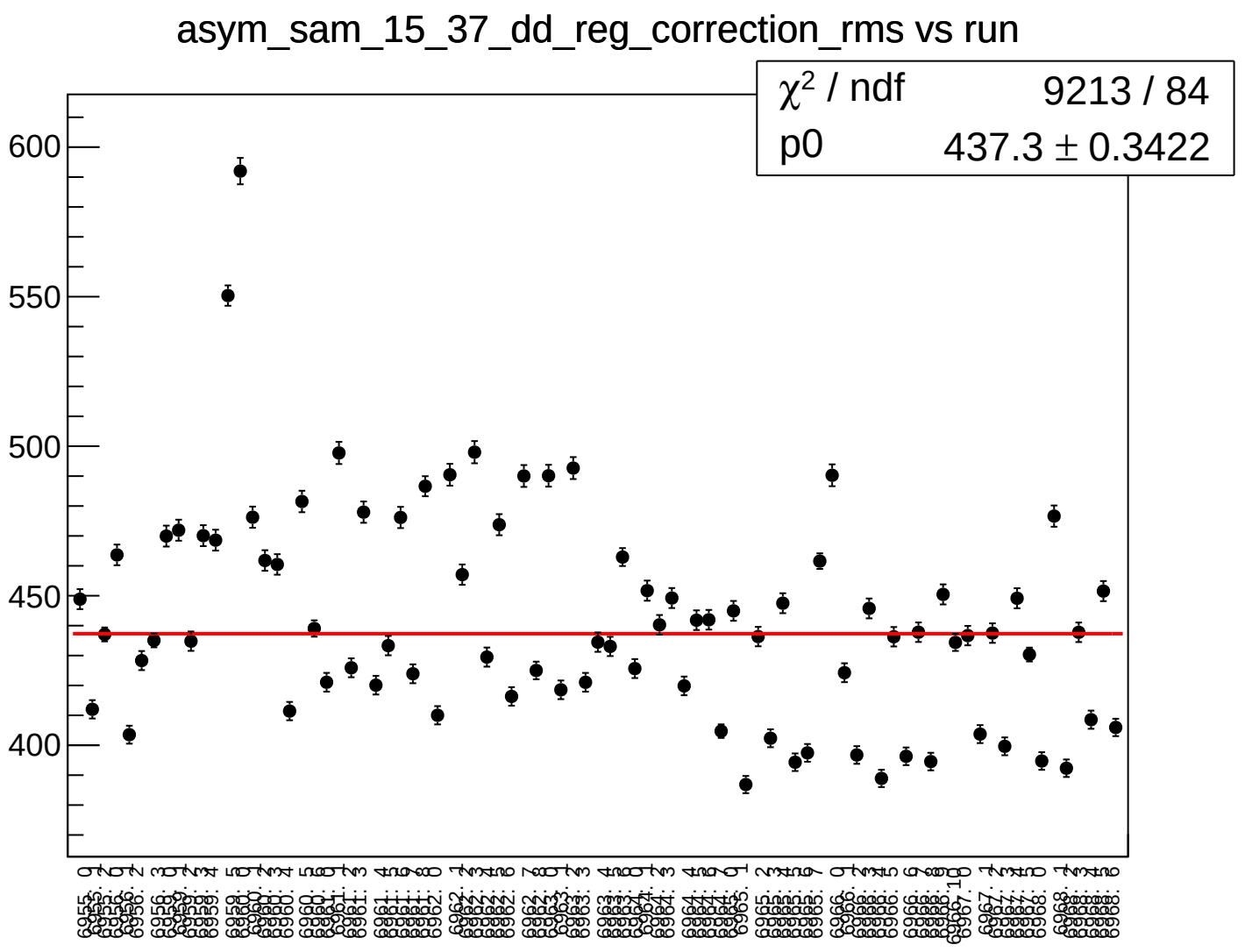

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.189e+05 / 84
p0 8.653e−12 ± 7.822e−15
70
60
50
40
30
20
10

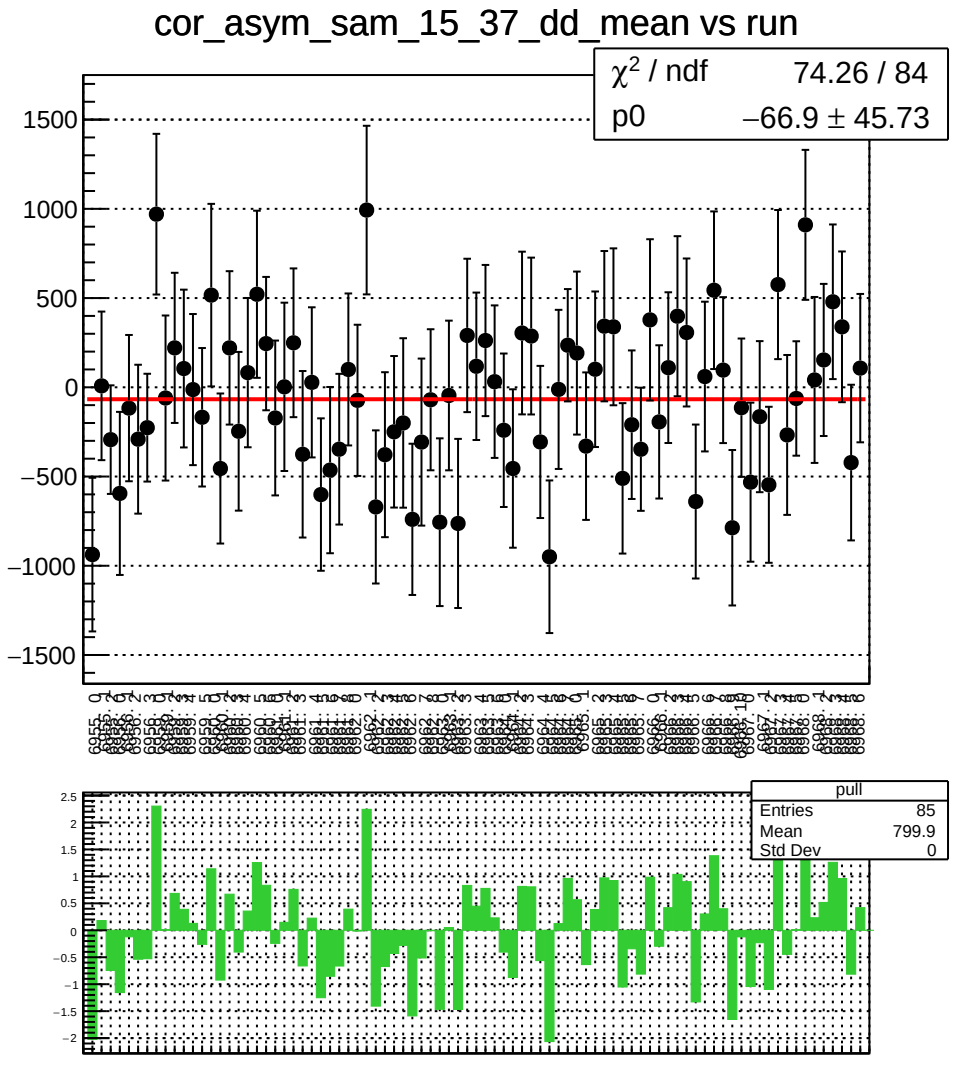

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 74.26 / 84
p0 −66.9 ± 45.73
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 800.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.003766
Std Dev 0.9347
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

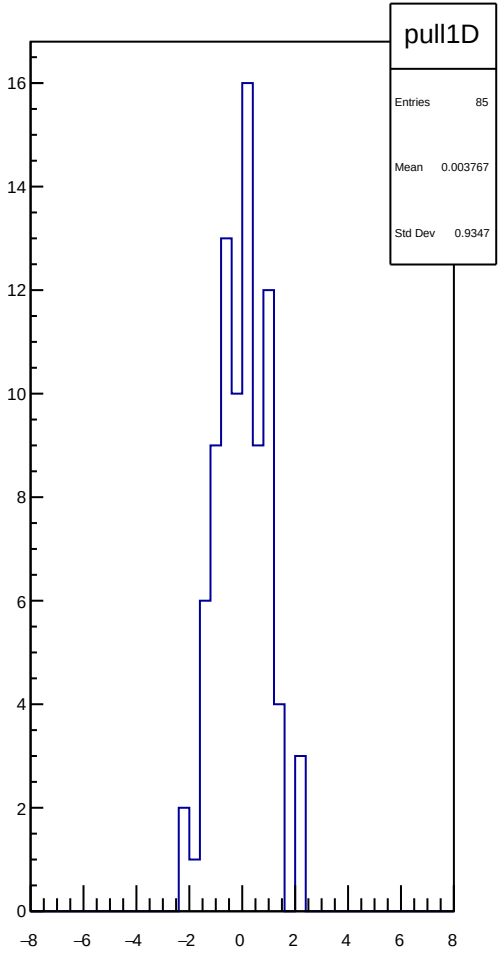

reg_asym_sam_15_37_dd_rms vs run
$\chi^2$ / ndf 3285 / 84
p0 41.4 ± 0.03234
48
46
44
42
40
38

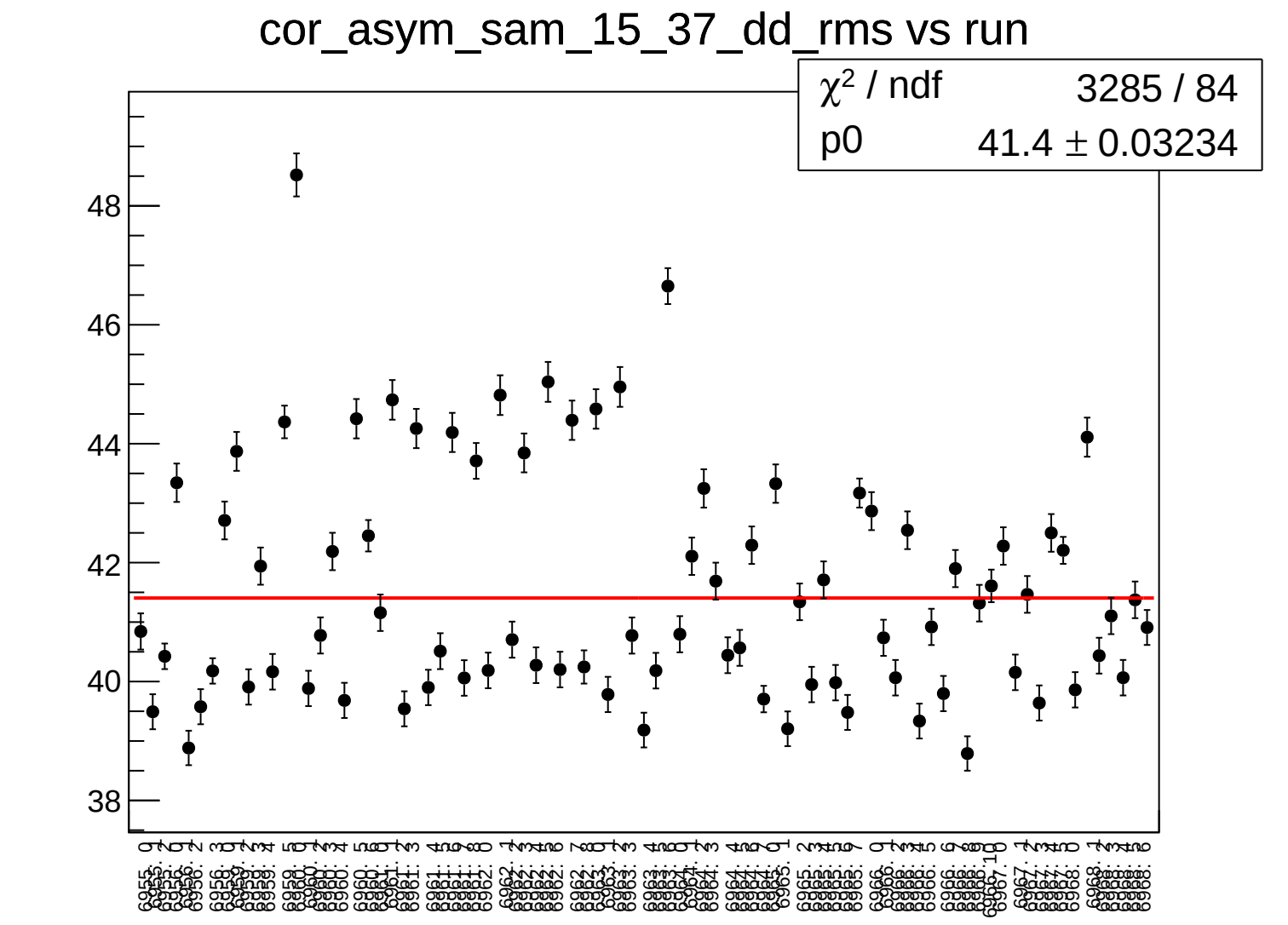

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 99.4 / 84
p0 14.81 ± 483.9
pull
Entries 85
Mean −130.3
Std Dev 0

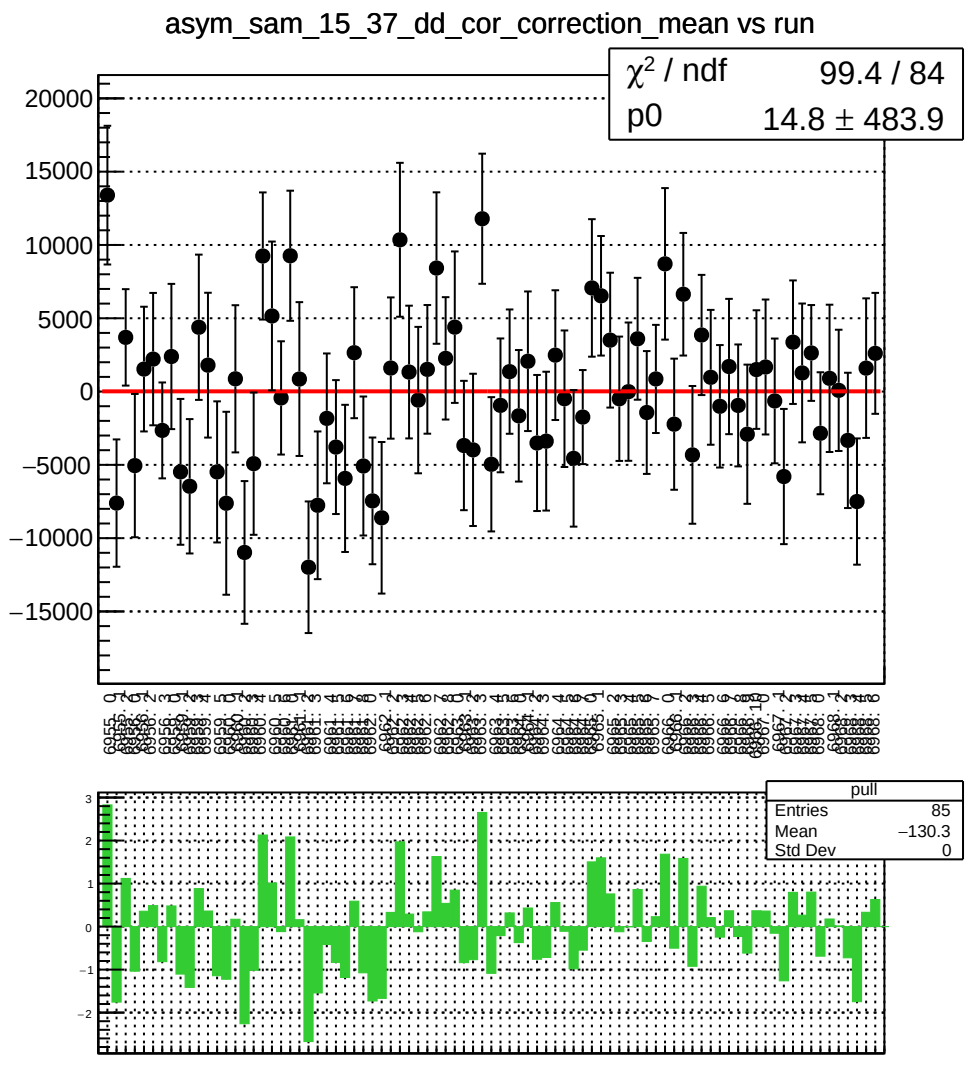

pull1D
Entries 85
Mean −0.01198
Std Dev 1.081

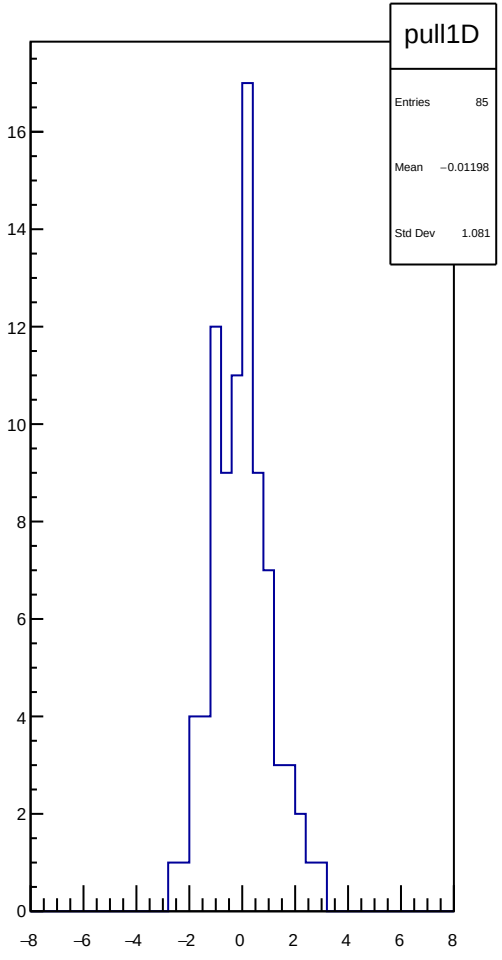

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 9213 / 84
p0 437.3 ± 0.3422
600
550
500
450
400

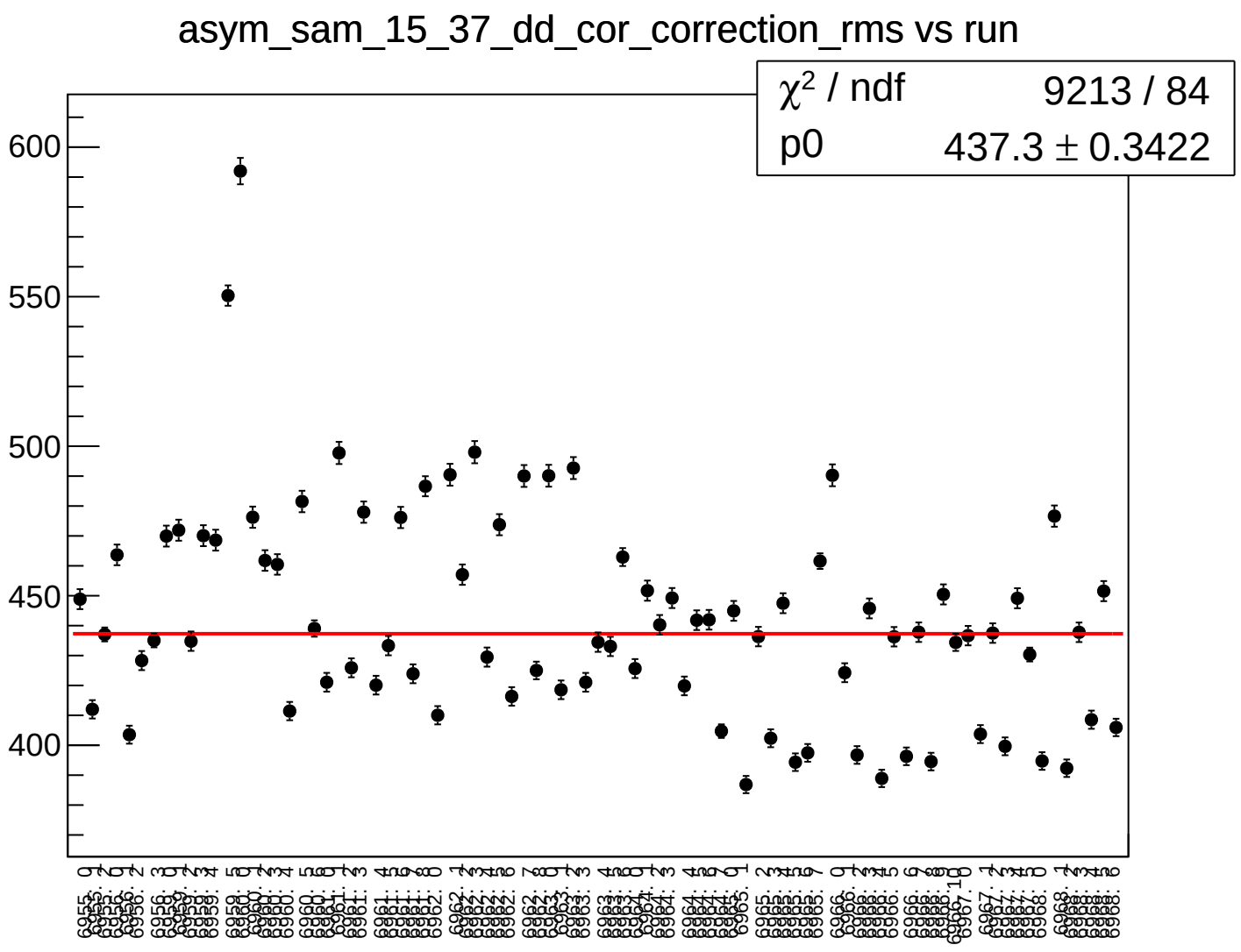

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 74.26 / 84
p0 −66.9 ± 45.73
pull
Entries 85
Mean 799.9
Std Dev 0

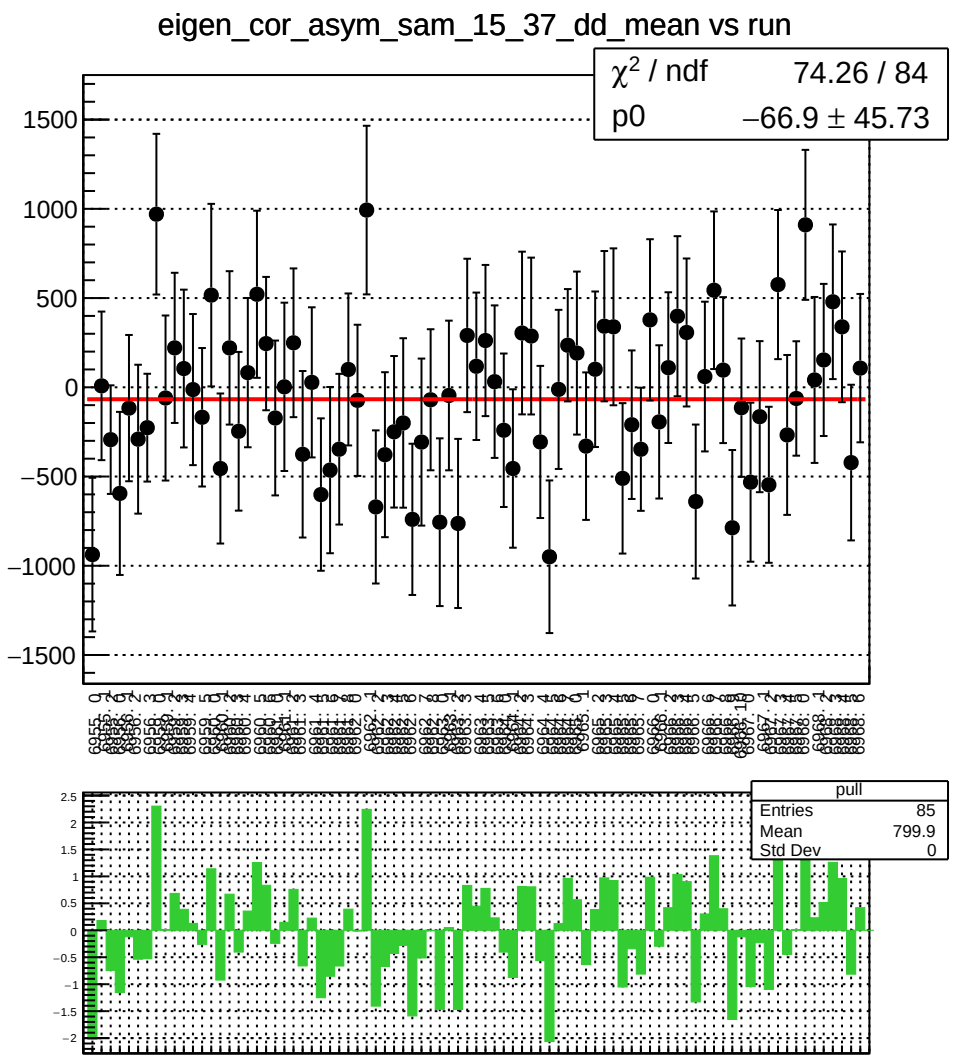

pull1D
Entries 85
Mean 0.003767
Std Dev 0.9347

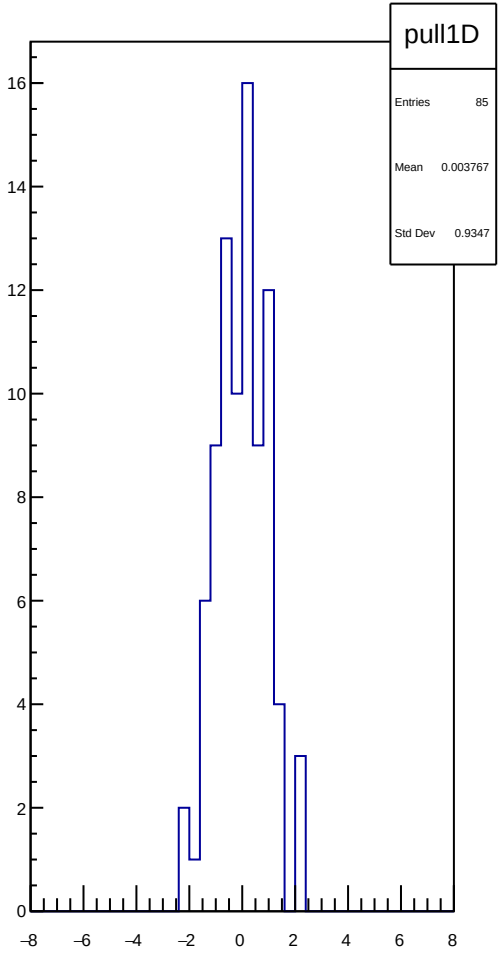

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3285 / 84
p0 41.4 ± 0.03234
48
46
44
42
40
38

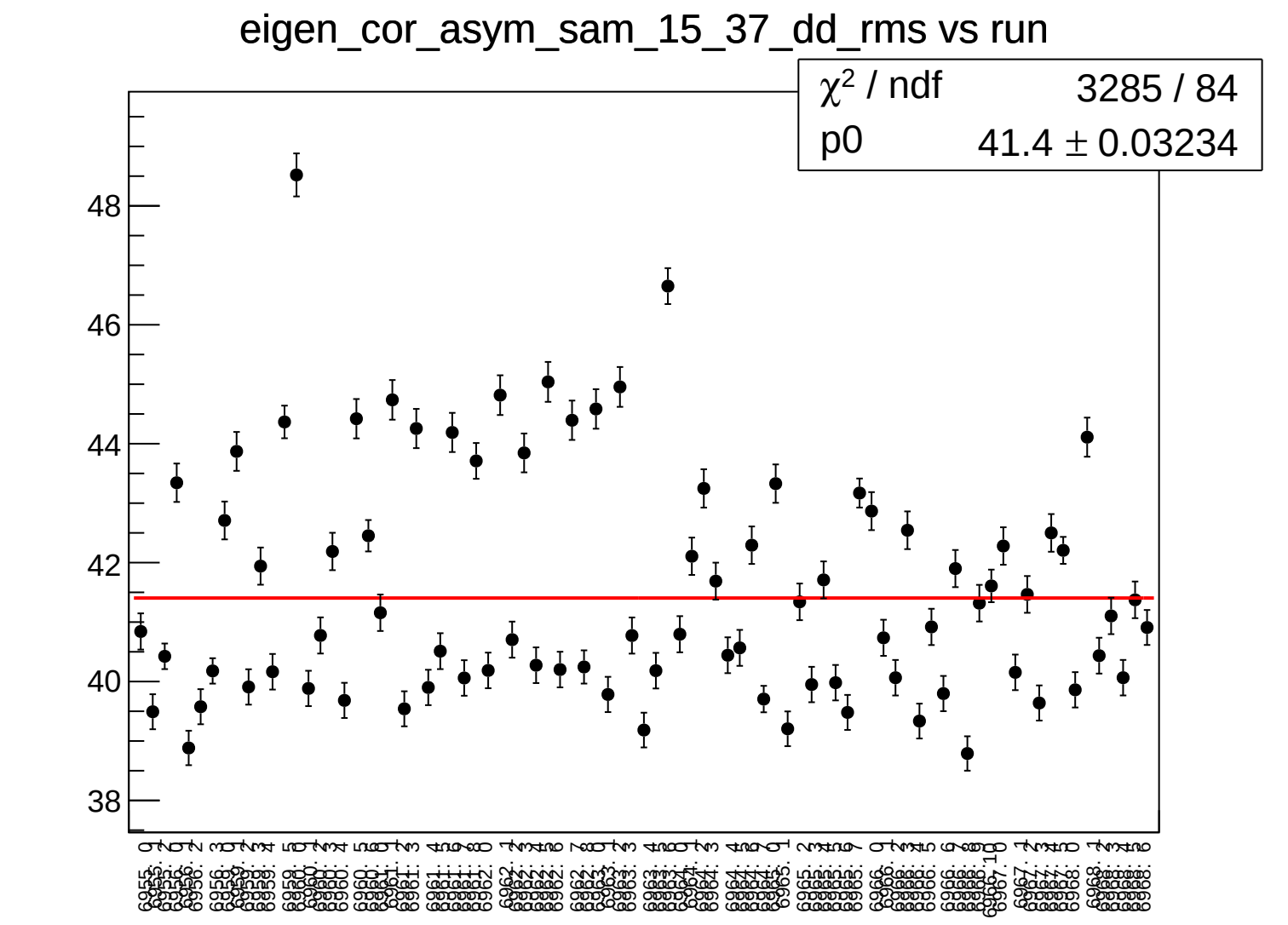

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 99.4 / 84
p0 14.8 ± 483.9
pull
Entries 85
Mean −130.3
Std Dev 0

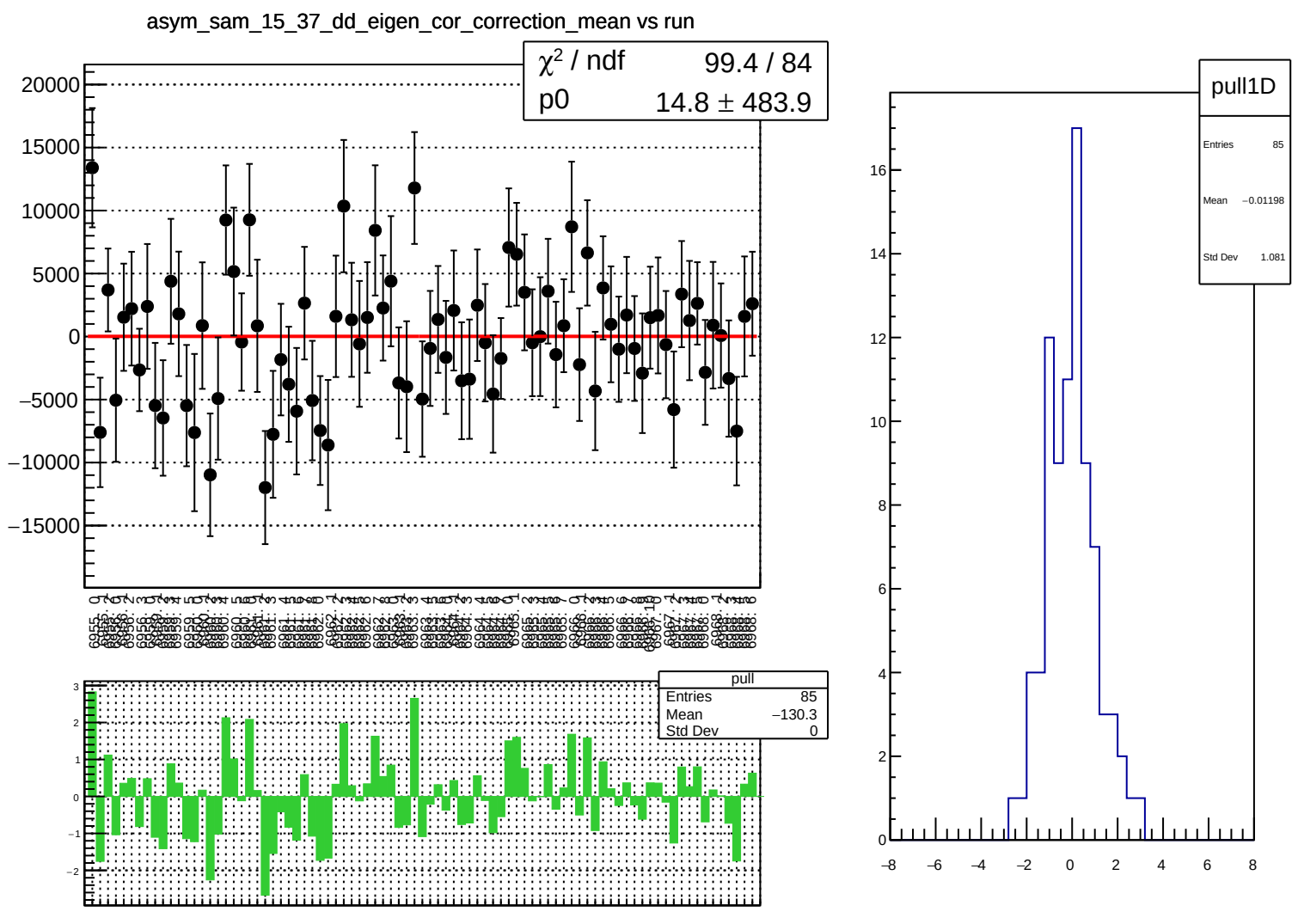

pull1D
Entries 85
Mean −0.01198
Std Dev 1.081

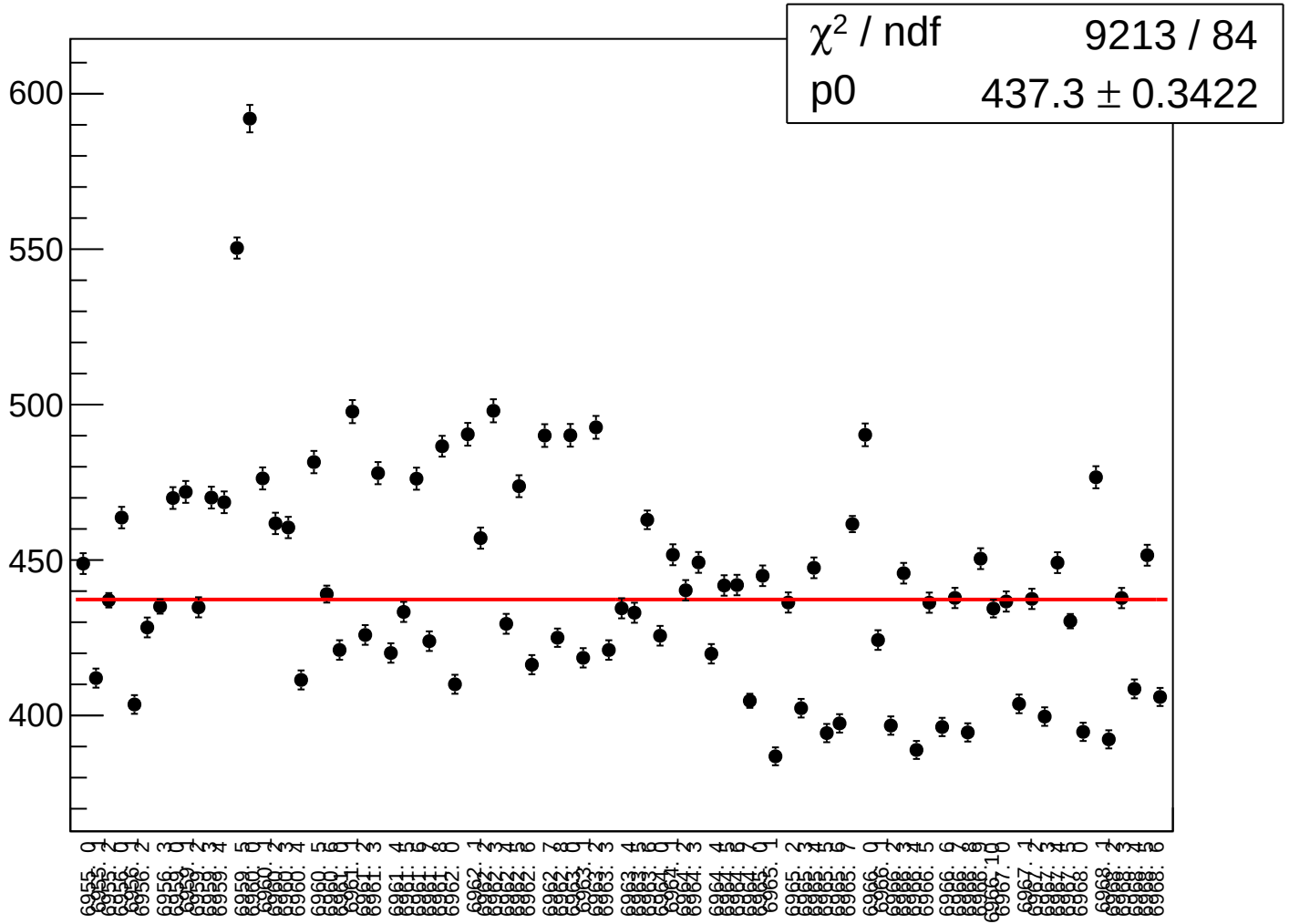

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 9213 / 84
p0 437.3 ± 0.3422
600
550
500
450
400

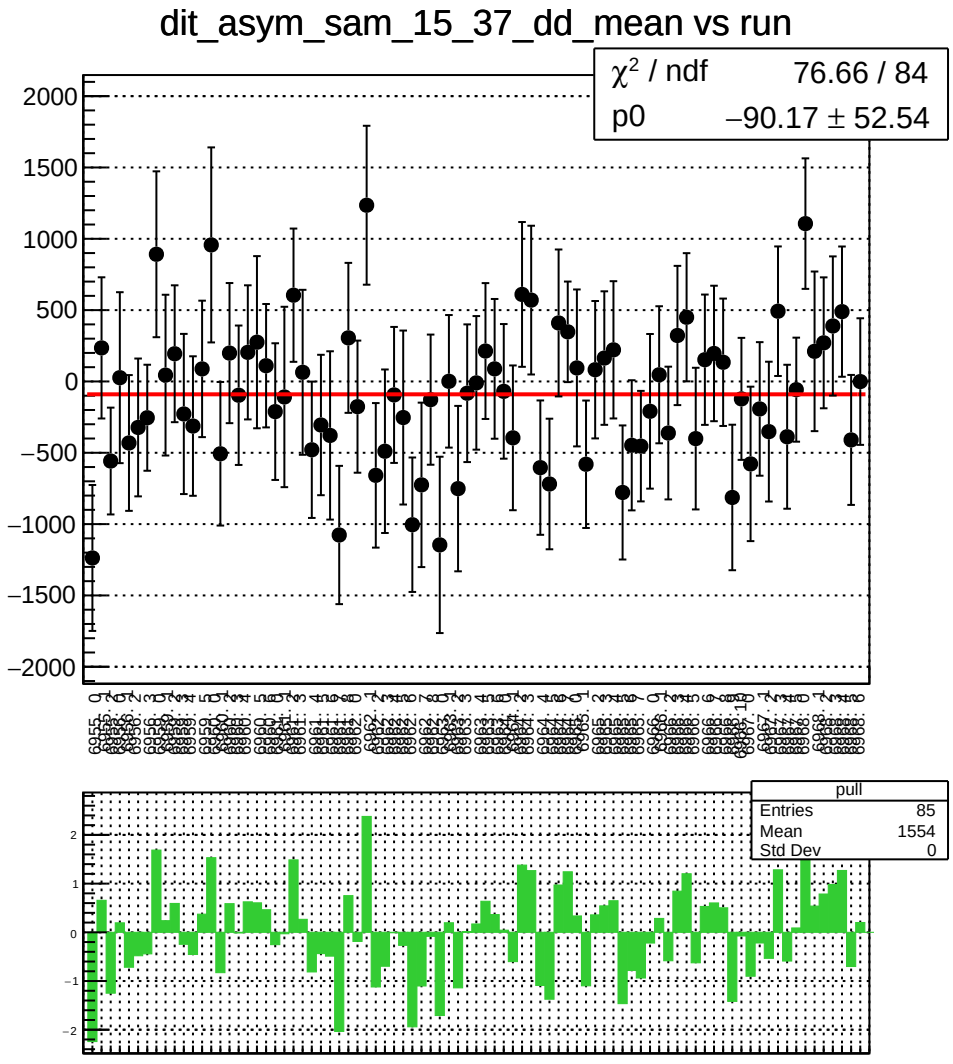

eigen_cor_asym_sam_15_37_dd_mean vs run
$\chi^2$ / ndf 74.26 / 84
p0 −66.9 ± 45.73
pull
Entries 85
Mean 799.9
Std Dev 0

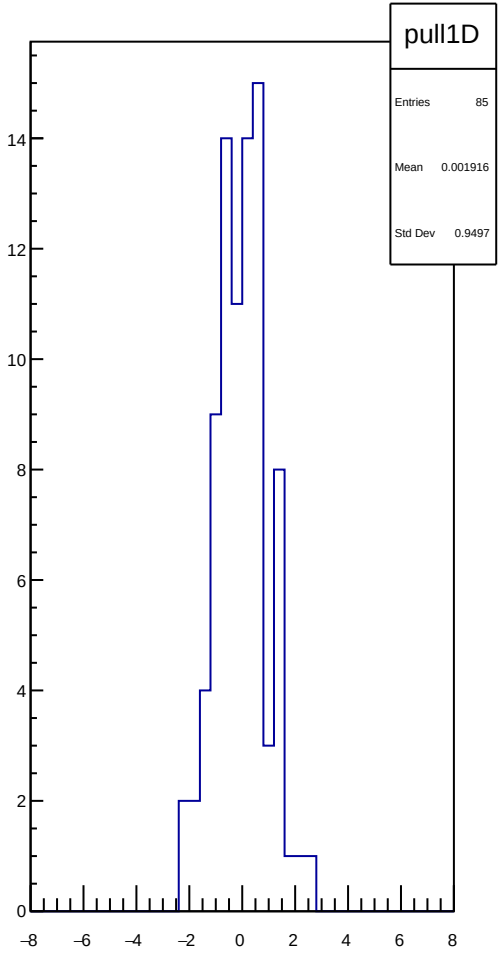

pull1D
Entries 85
Mean 0.003767
Std Dev 0.9347

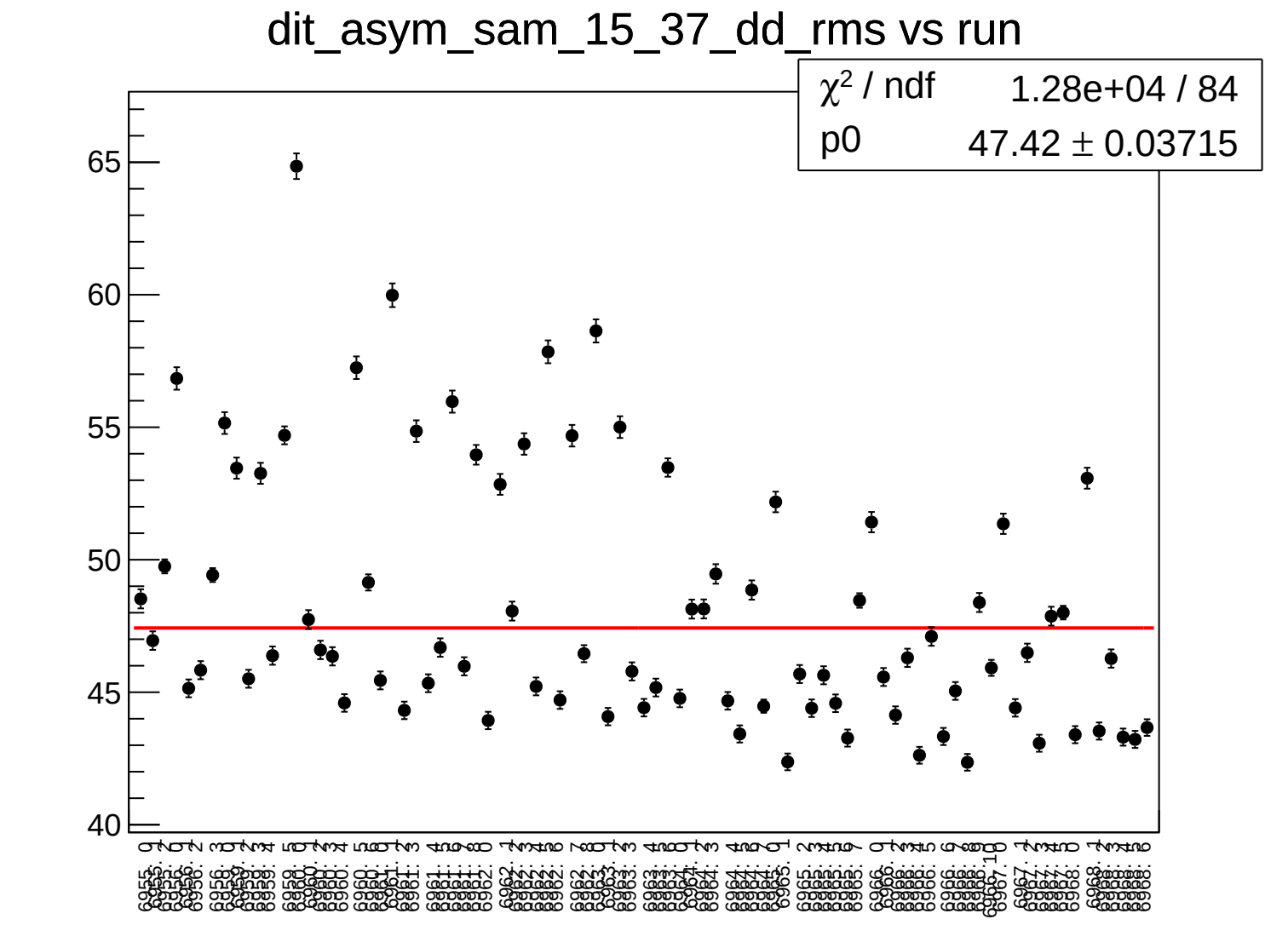

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3285 / 84
p0 41.4 ± 0.03234
48
46
44
42
40
38

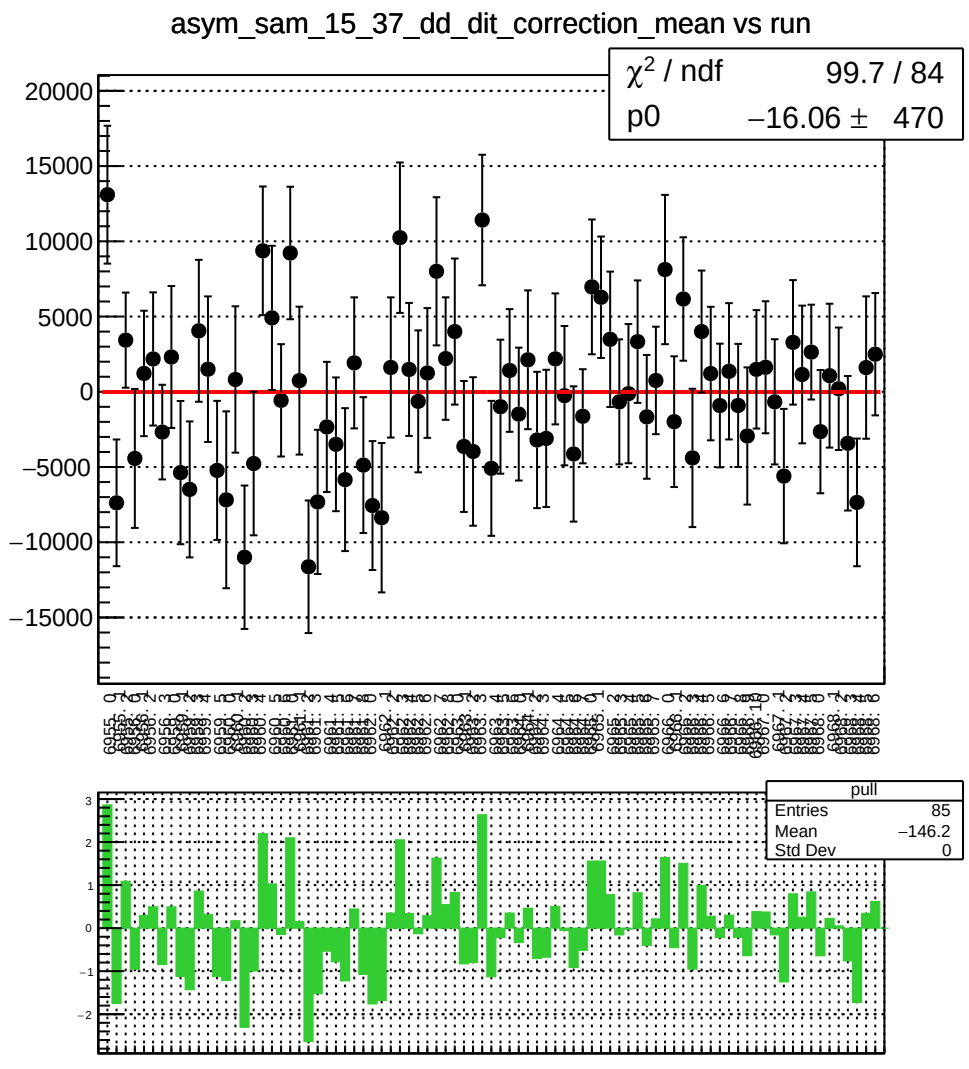

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.4 / 84
p0 14.8 ± 483.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −130.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01198
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

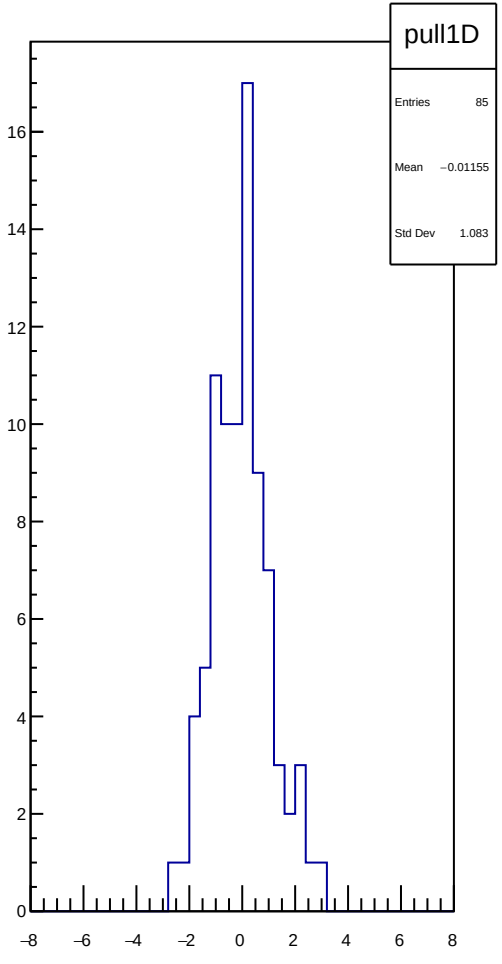

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 9213 / 84
p0 437.3 ± 0.3422
600
550
500
450
400

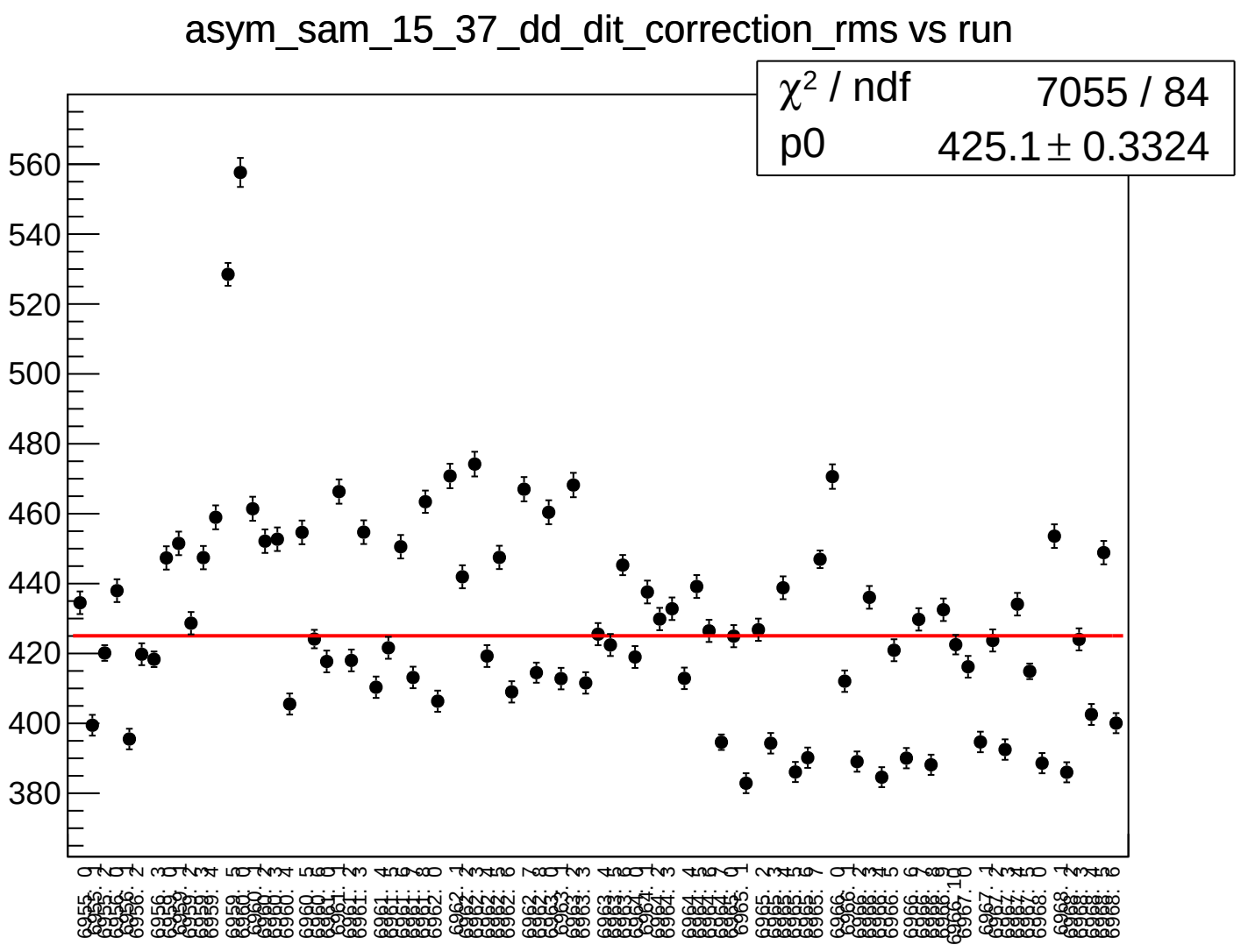

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 76.66 / 84
p0 −90.17 ± 52.54
pull
Entries 85
Mean 1554
Std Dev 0

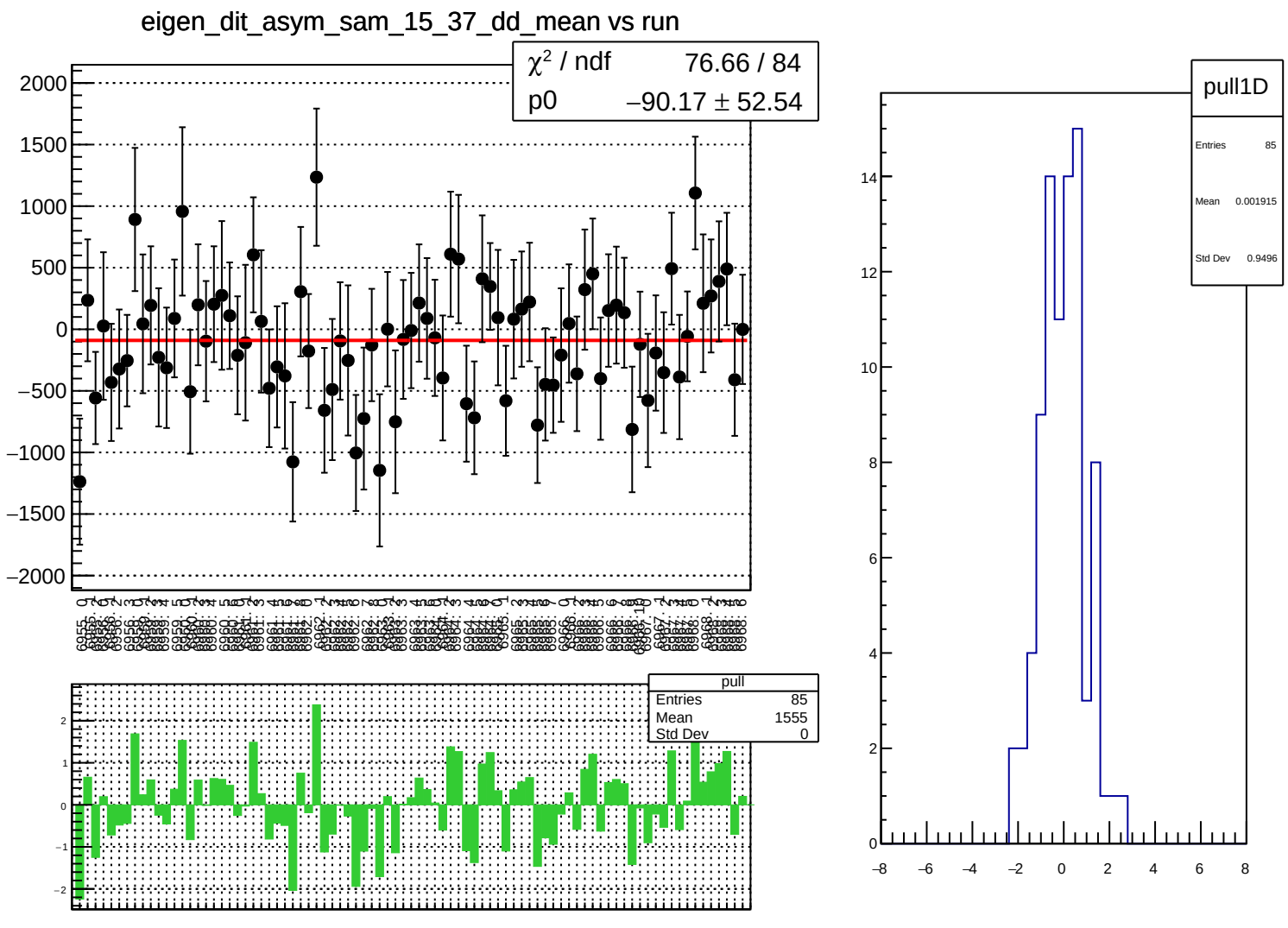

pull1D
Entries 85
Mean 0.001916
Std Dev 0.9497

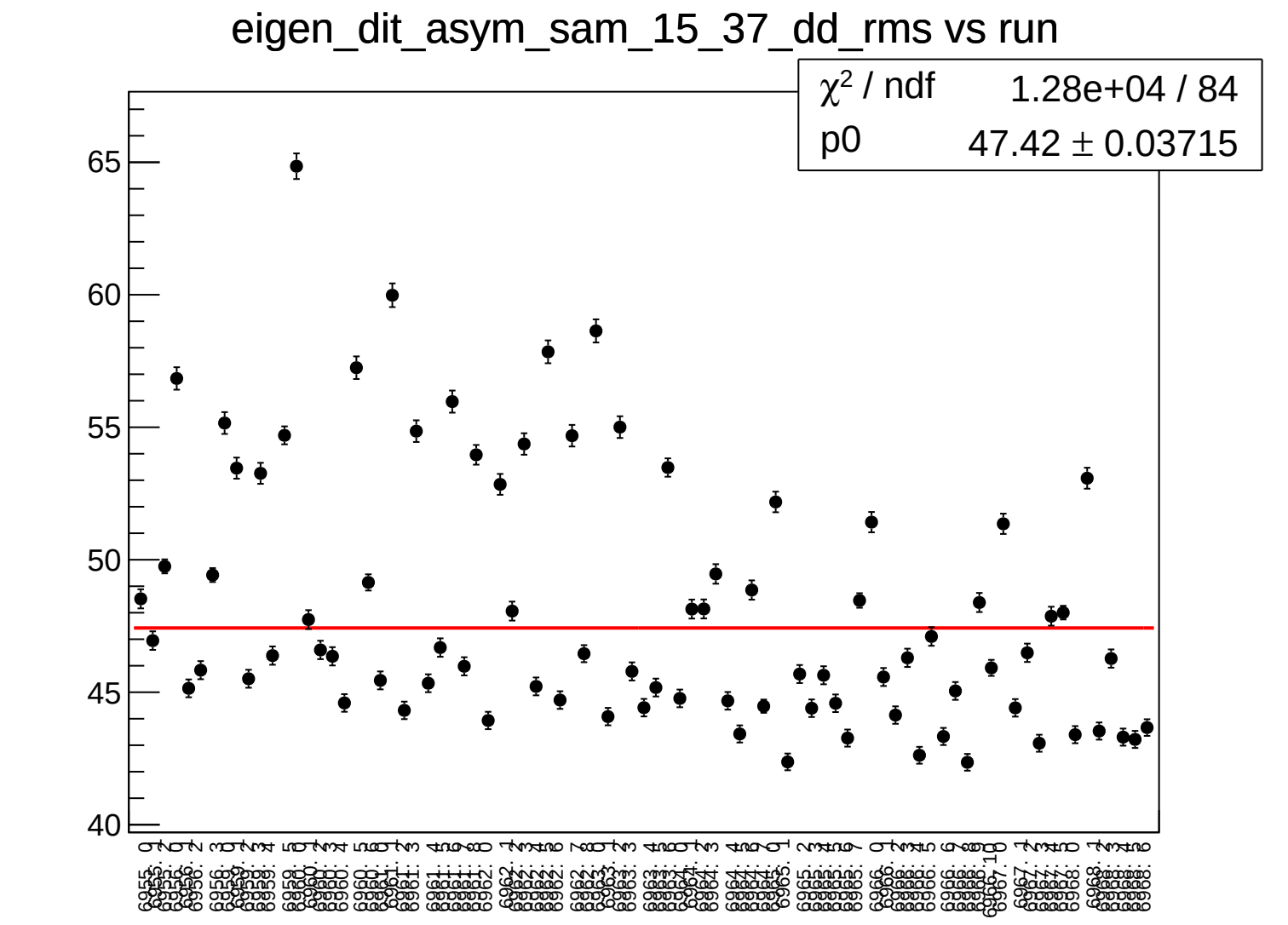

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.28e+04 / 84
p0 47.42 ± 0.03715
65
60
55
50
45
40

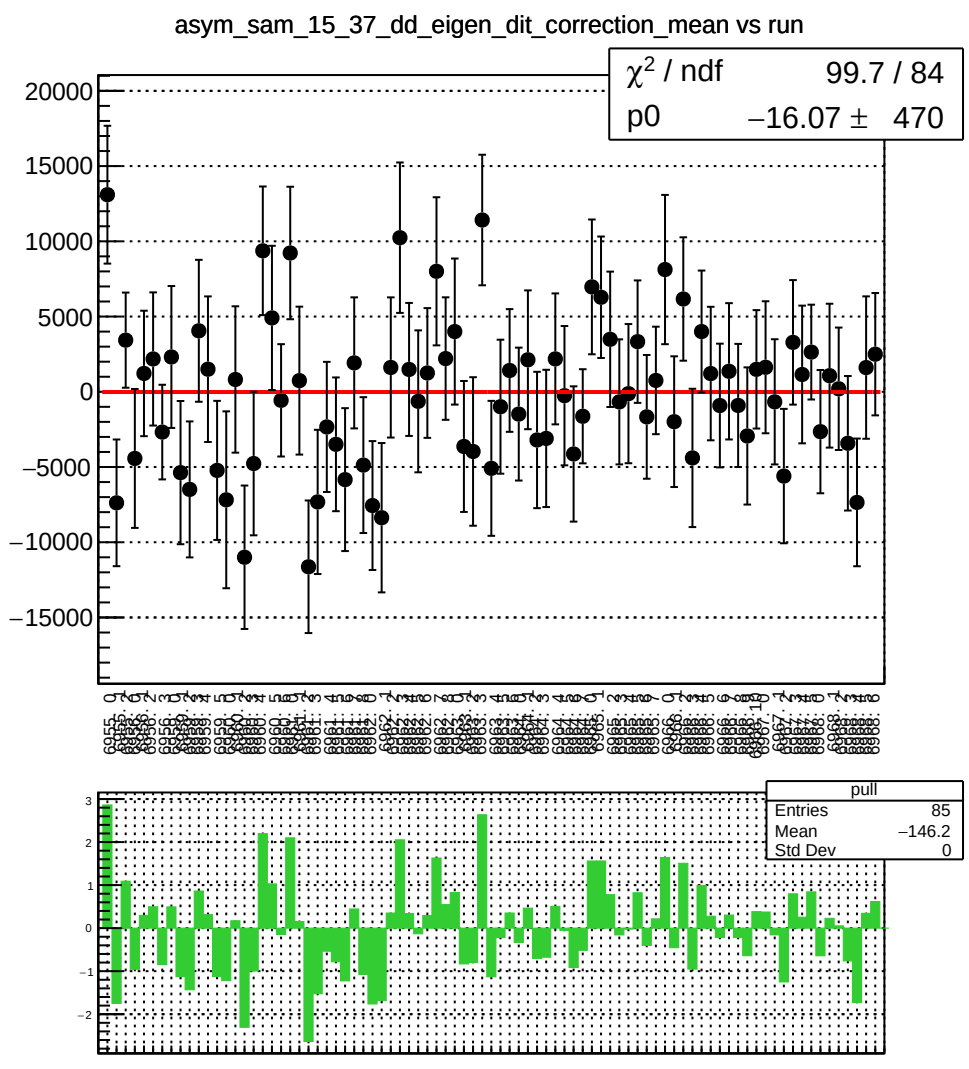

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 99.7 / 84
p0 −16.06 ± 470
pull
Entries 85
Mean −146.2
Std Dev 0

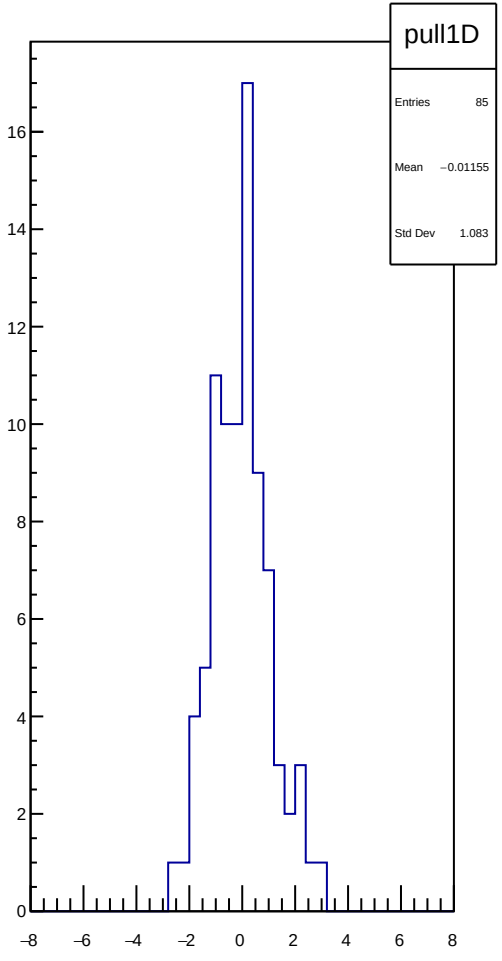

pull1D
Entries 85
Mean −0.01155
Std Dev 1.083

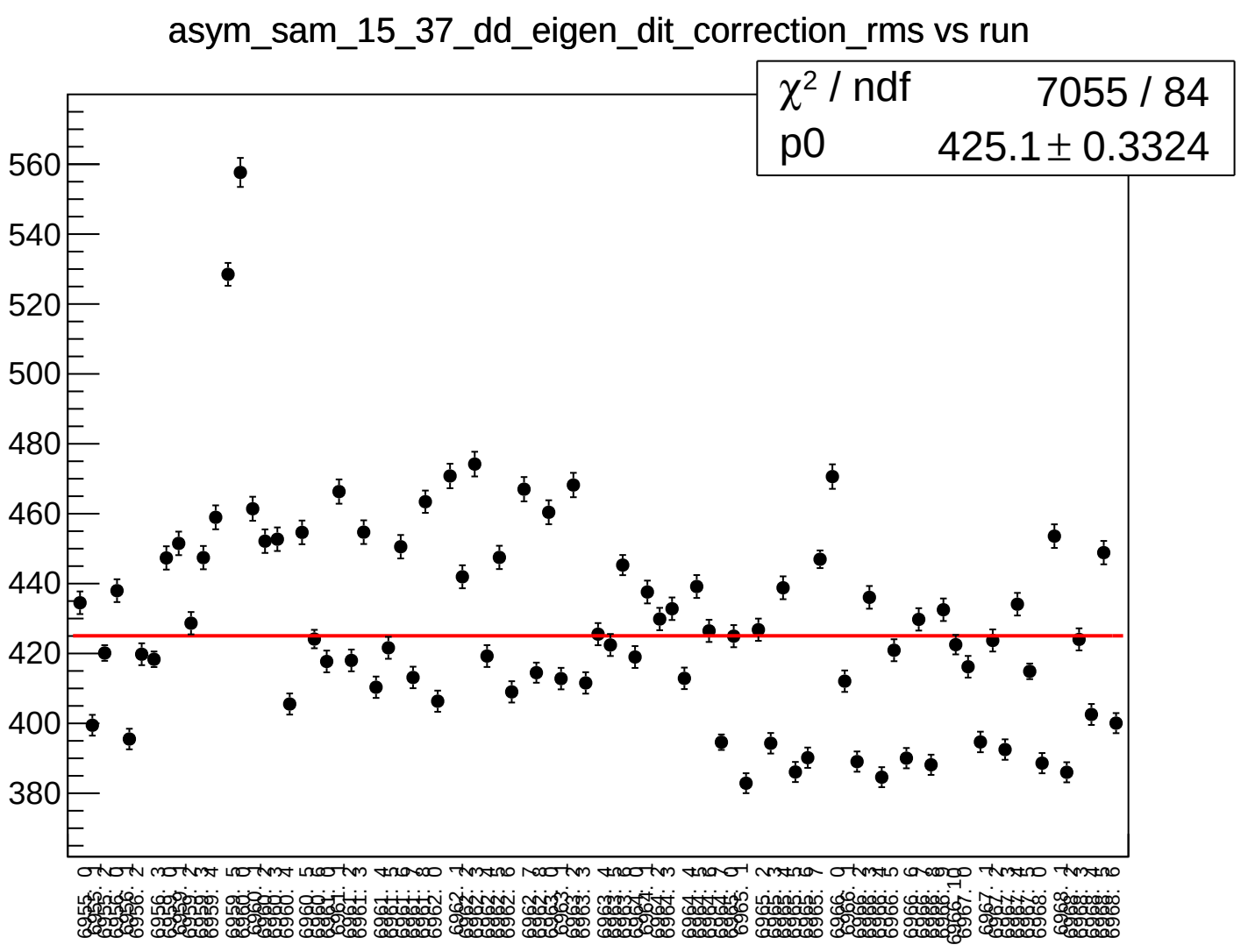

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 7055 / 84
p0 425.1 ± 0.3324
560
540
520
500
480
460
440
420
400
380

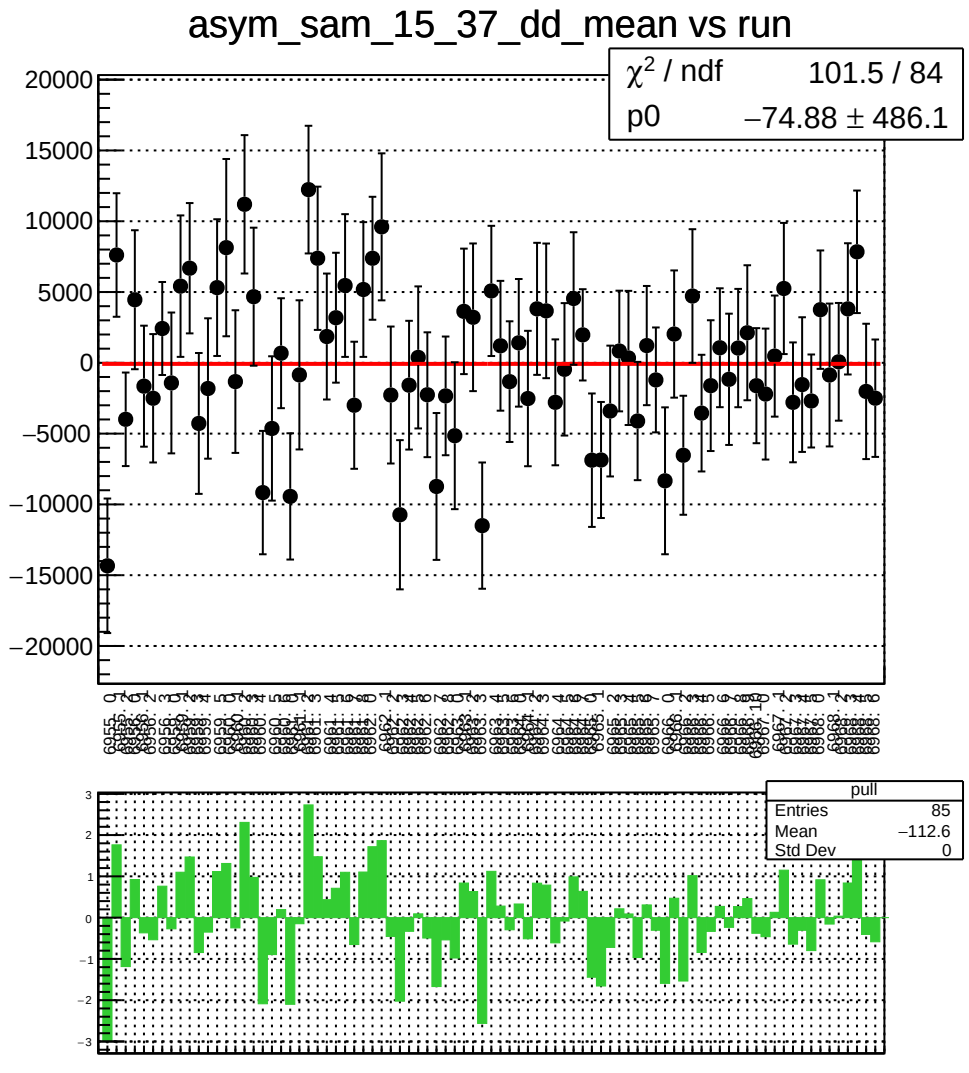

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 76.66 / 84
p0 −90.17 ± 52.54
pull
Entries 85
Mean 1555
Std Dev 0
pull1D
Entries 85
Mean 0.001915
Std Dev 0.9496

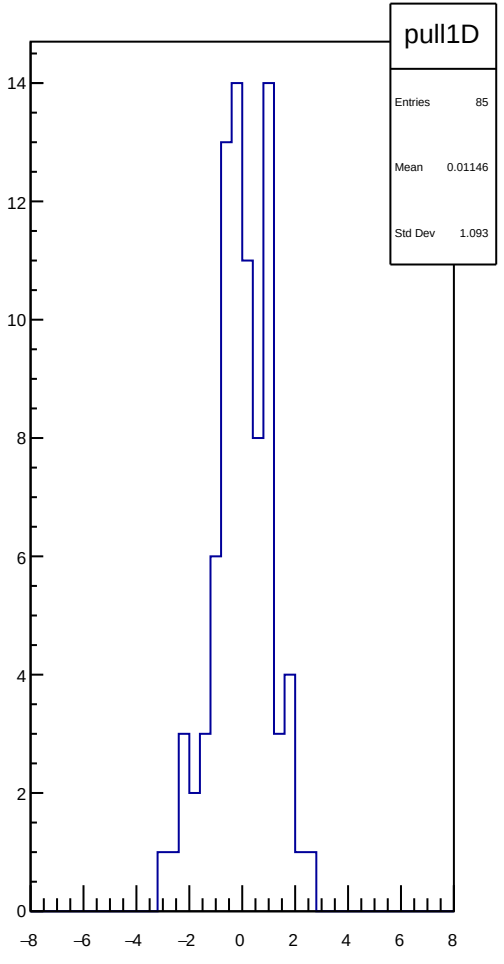

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.28e+04 / 84
p0 47.42 ± 0.03715
65
60
55
50
45
40

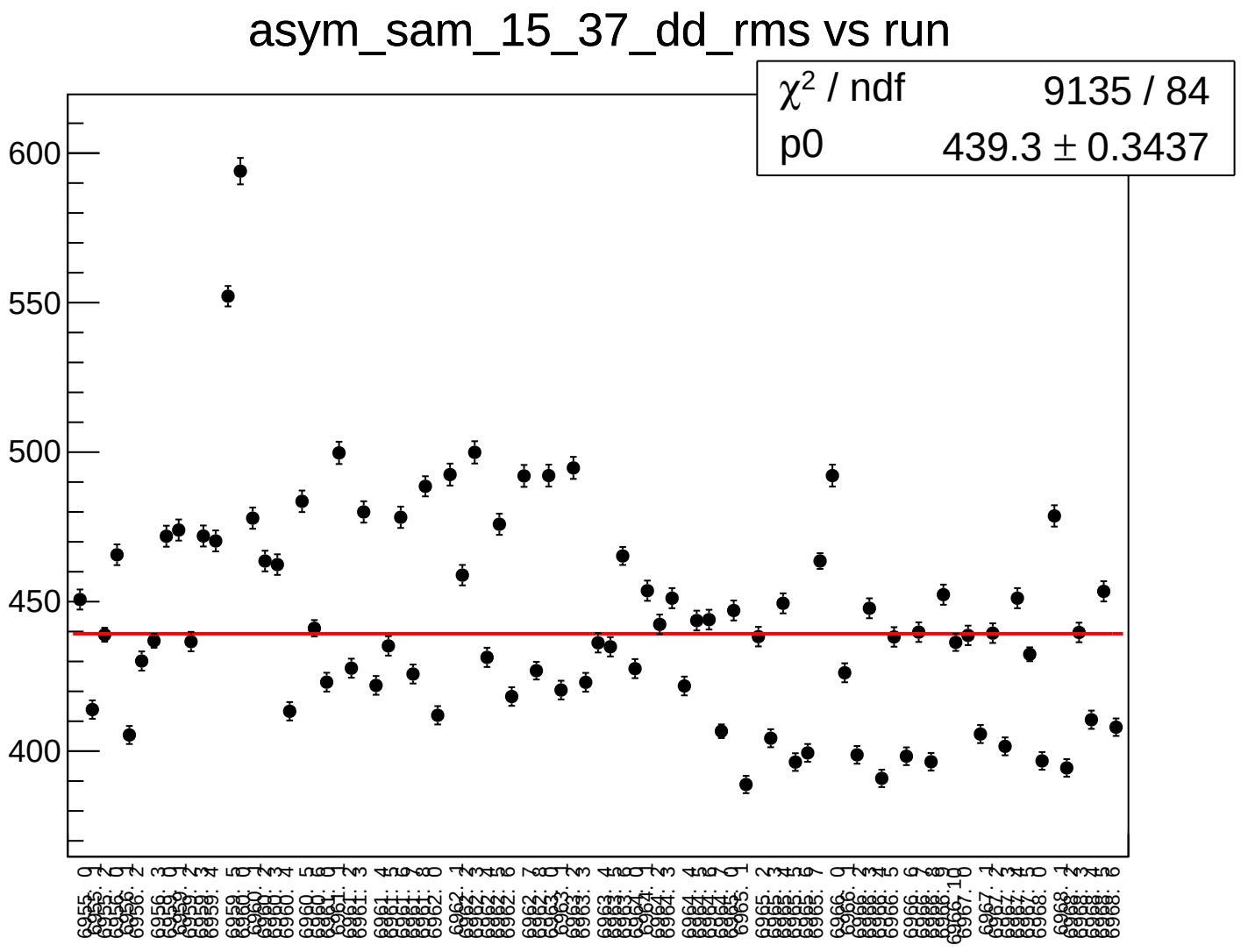

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.7 / 84
p0 −16.07 ± 470
pull
Entries 85
Mean −146.2
Std Dev 0

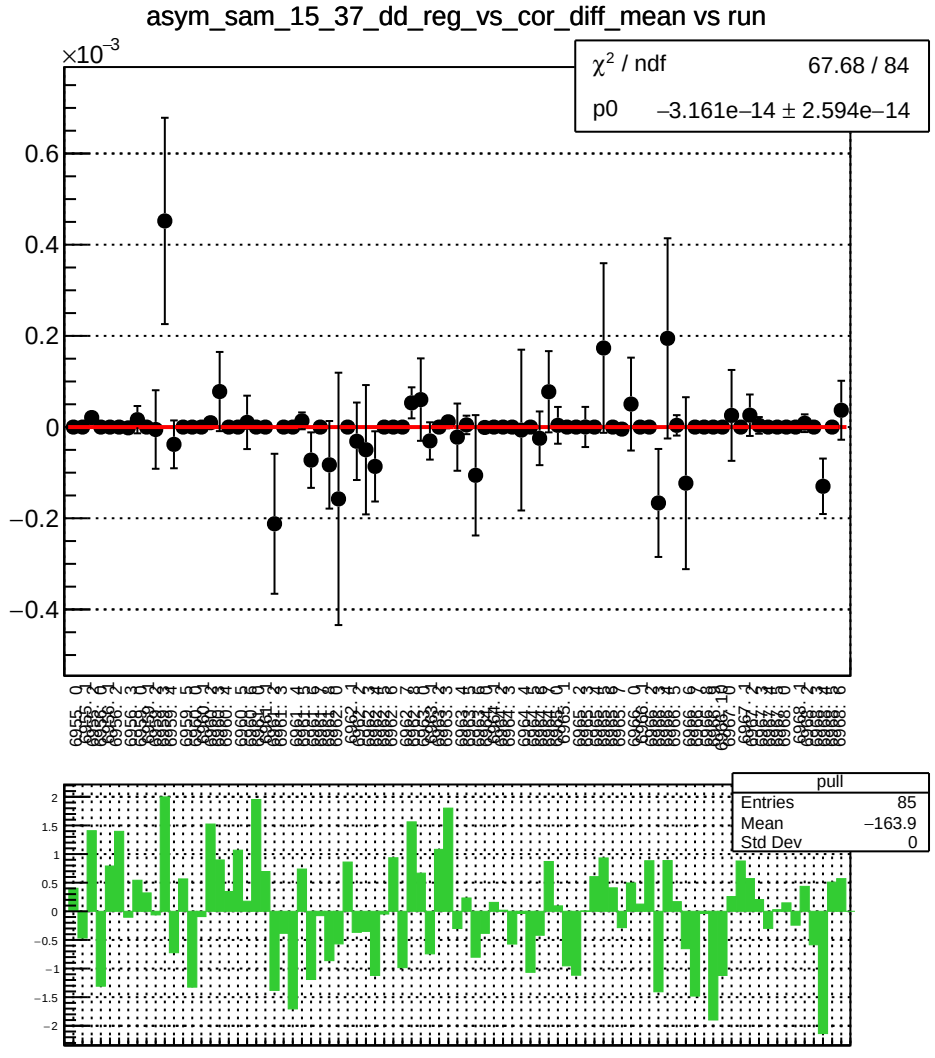

pull1D
Entries 85
Mean −0.01155
Std Dev 1.083

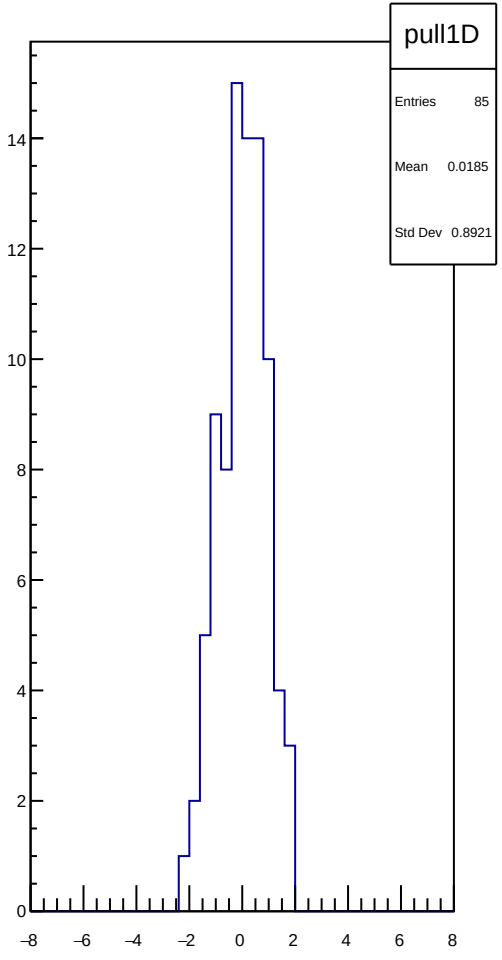

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 7055 / 84
p0 425.1 ± 0.3324
560
540
520
500
480
460
440
420
400
380

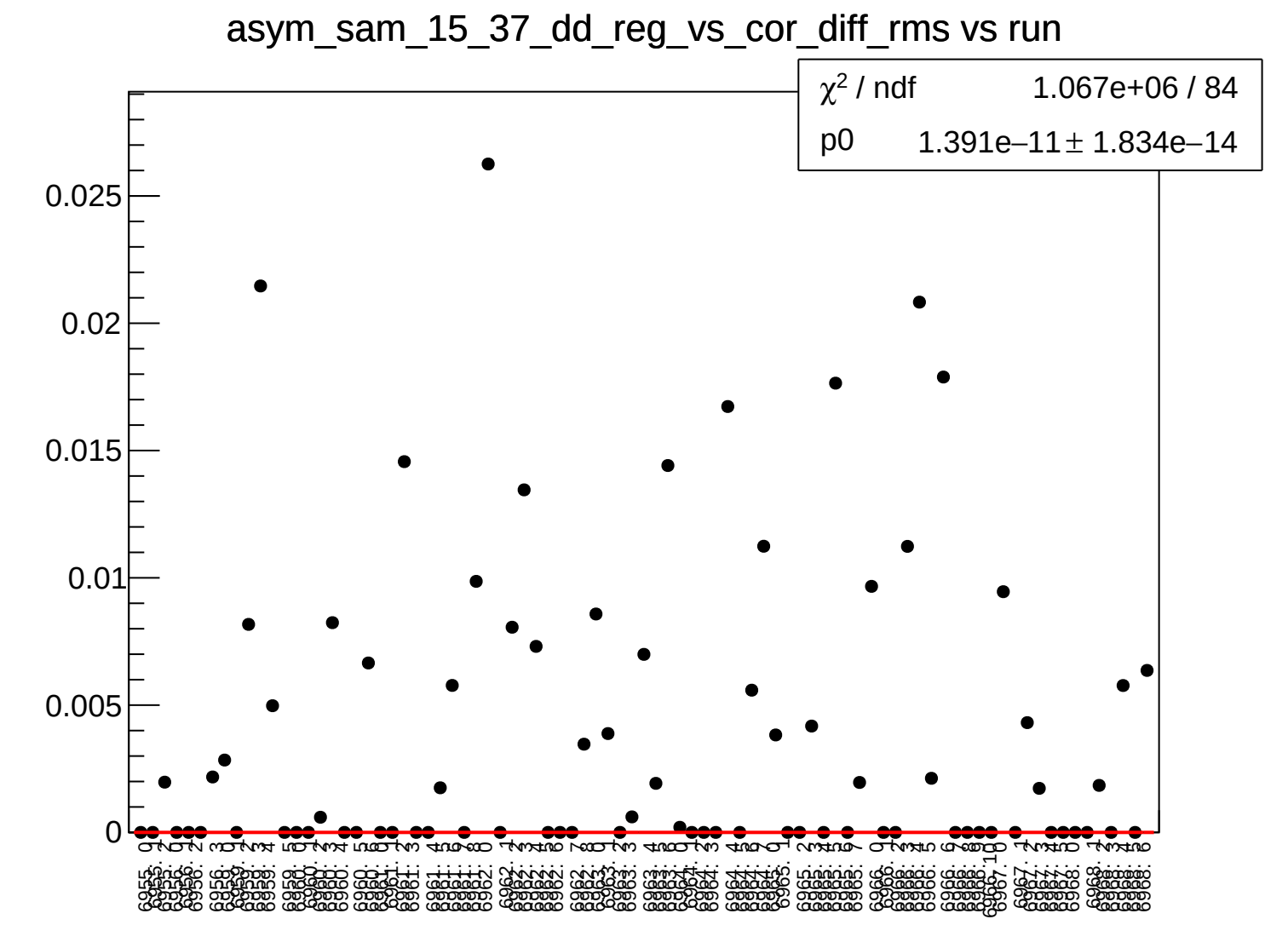

asym_sam_15_37_dd_mean vs run
χ² / ndf 101.5 / 84
p0 −74.88 ± 486.1
pull
Entries 85
Mean −112.6
Std Dev 0

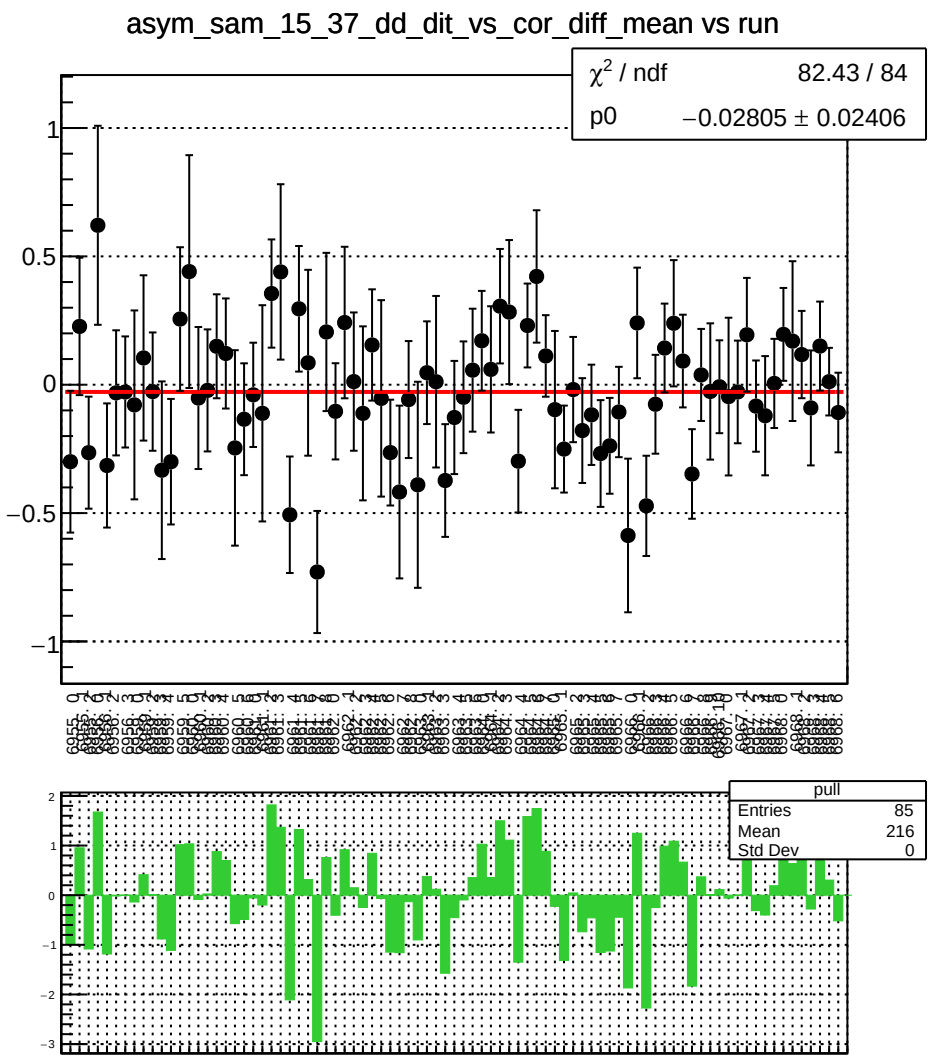

pull1D
Entries 85
Mean 0.01146
Std Dev 1.093

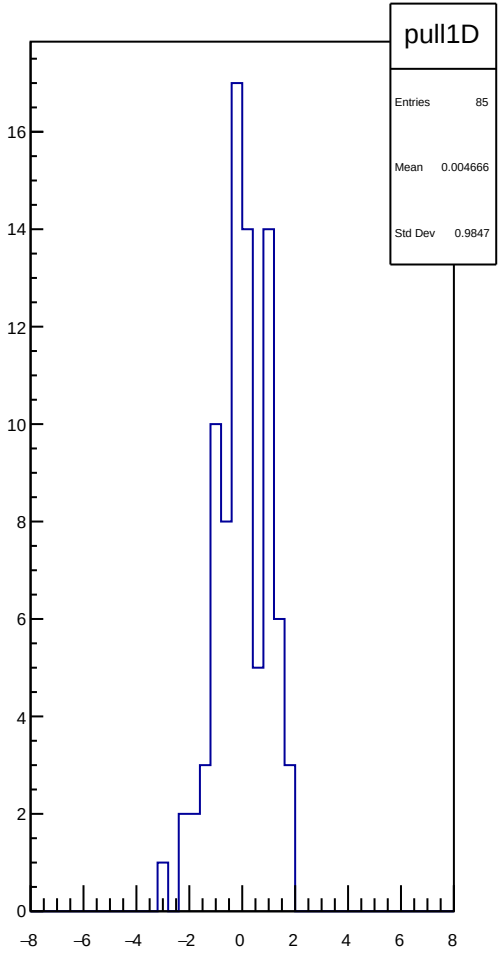

asym_sam_15_37_dd_rms vs run
$\chi^2$ / ndf 9135 / 84
p0 439.3 ± 0.3437
600
550
500
450
400

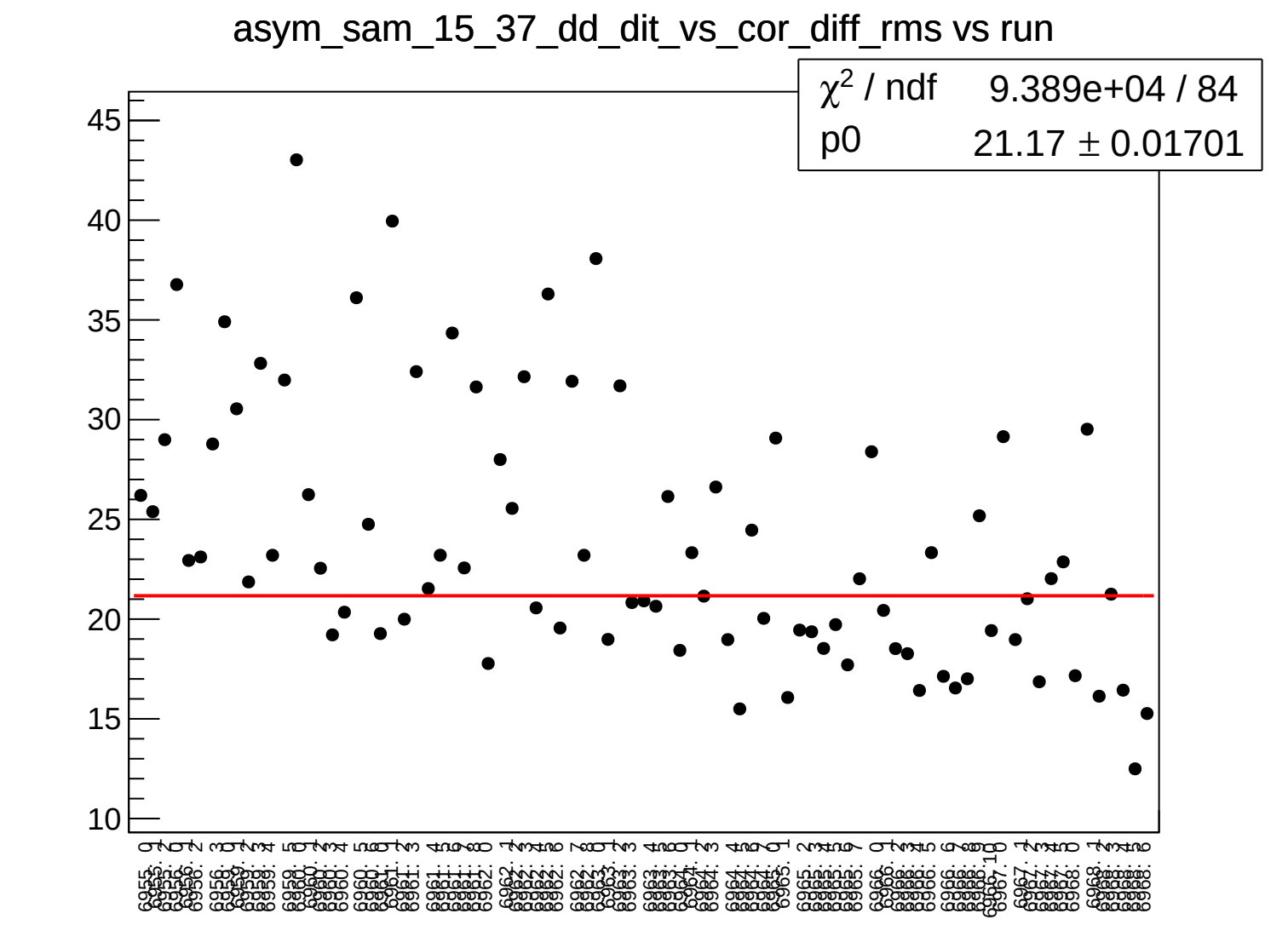

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 67.68 / 84
p0 −3.161e−14 ± 2.594e−14
pull
Entries 85
Mean −163.9
Std Dev 0

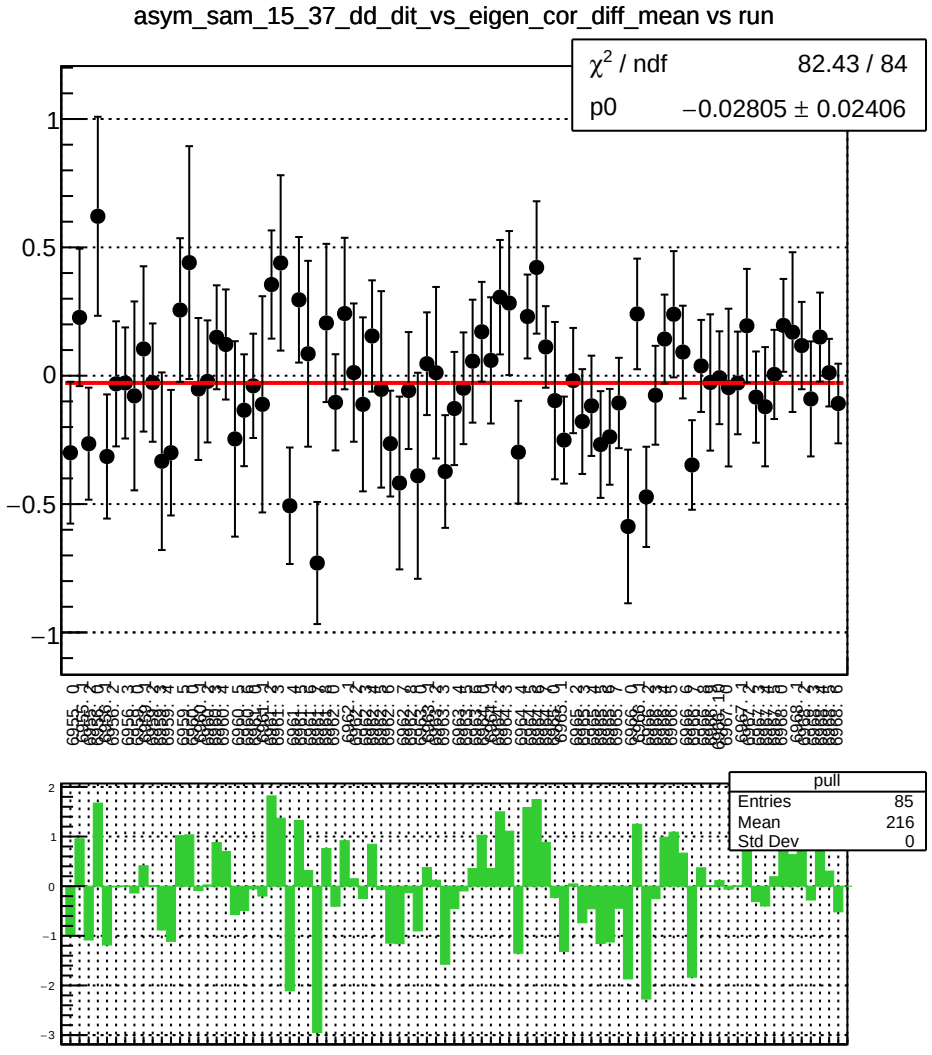

pull1D
Entries 85
Mean 0.0185
Std Dev 0.8921

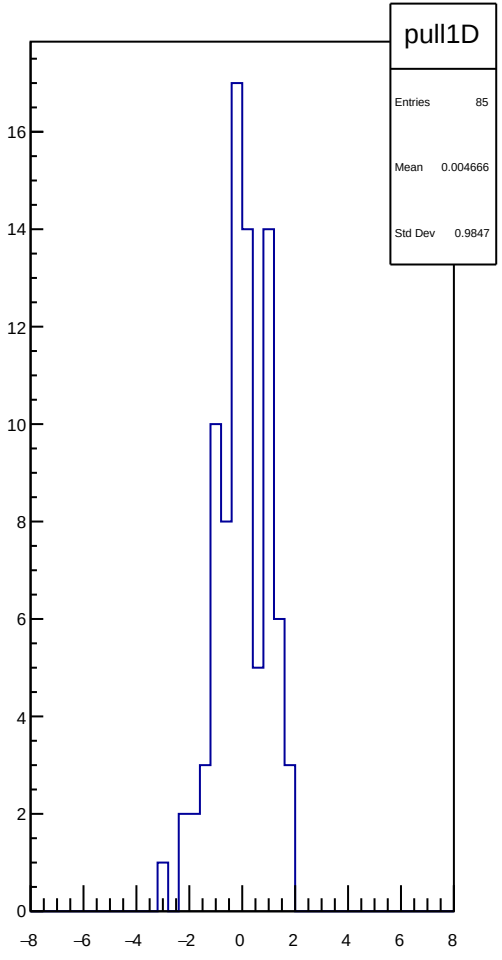

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 84
p0 1.391e−11 ± 1.834e−14
0.025
0.02
0.015
0.01
0.005
0

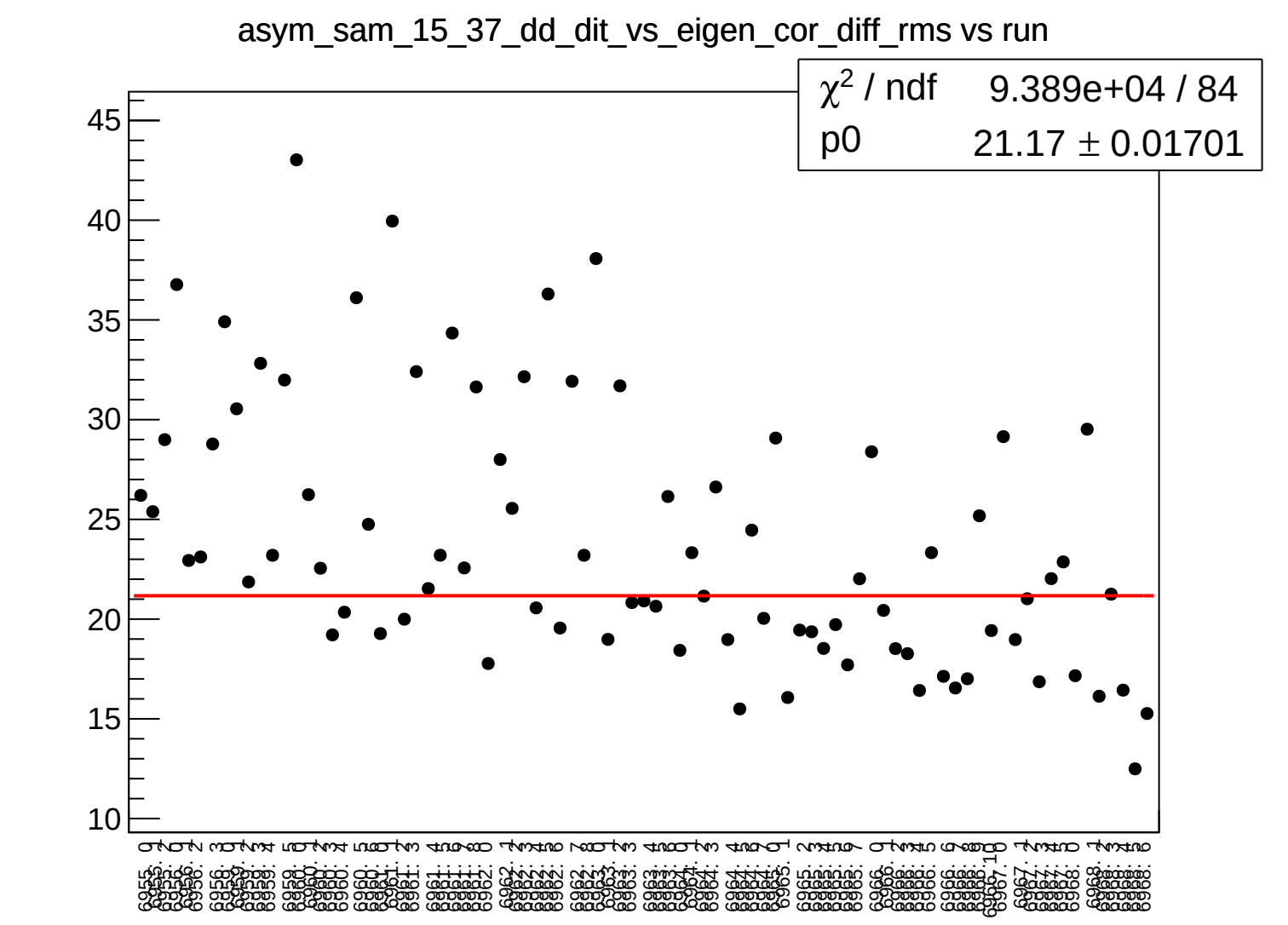

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.43 / 84
p0 −0.02805 ± 0.02406
pull
Entries 85
Mean 216
Std Dev 0

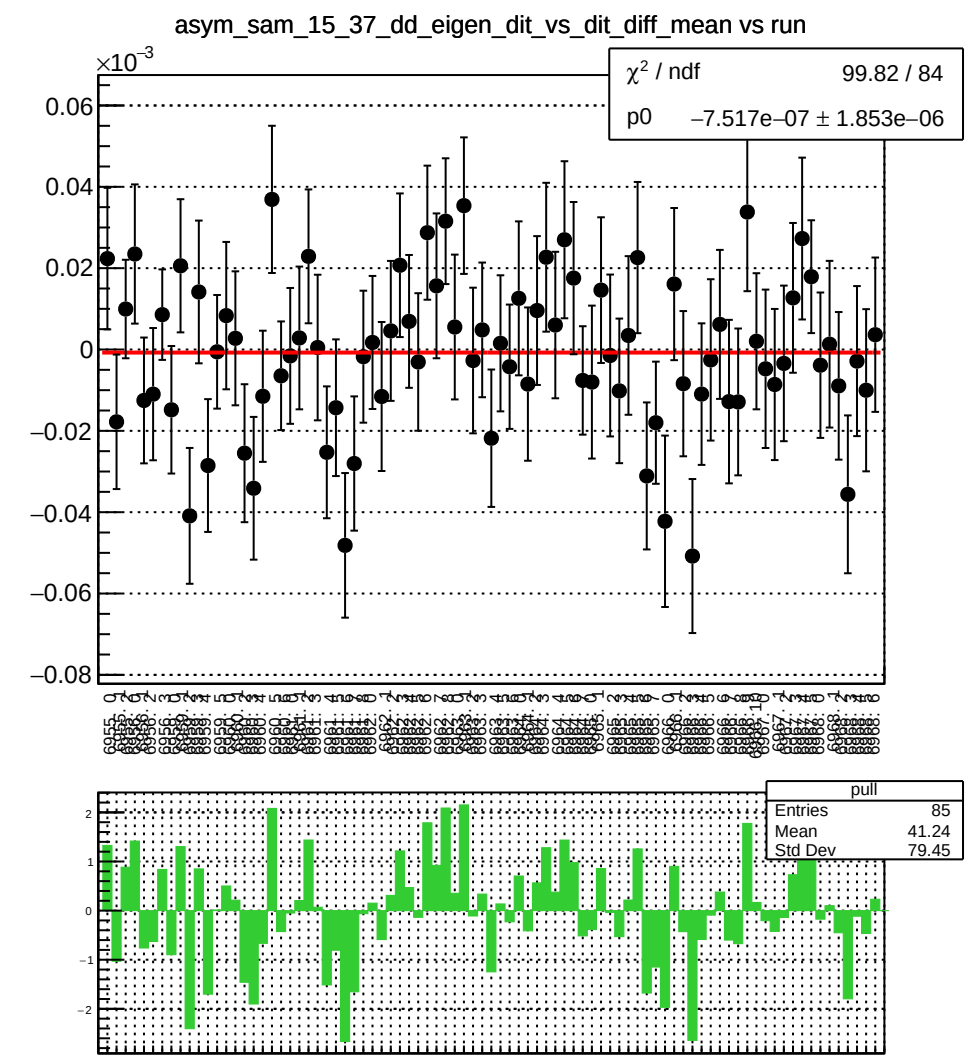

pull1D
Entries 85
Mean 0.004666
Std Dev 0.9847

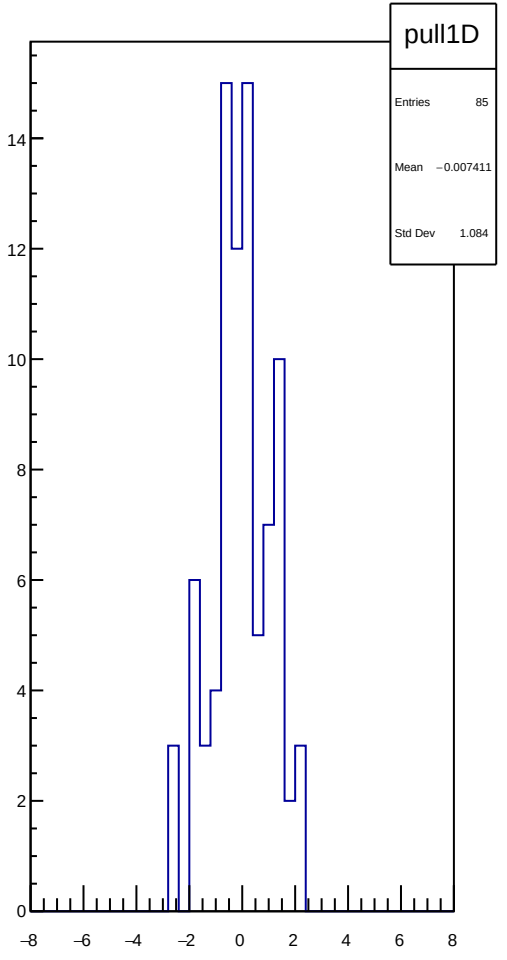

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 9.389e+04 / 84
p0 21.17 ± 0.01701
45
40
35
30
25
20
15
10

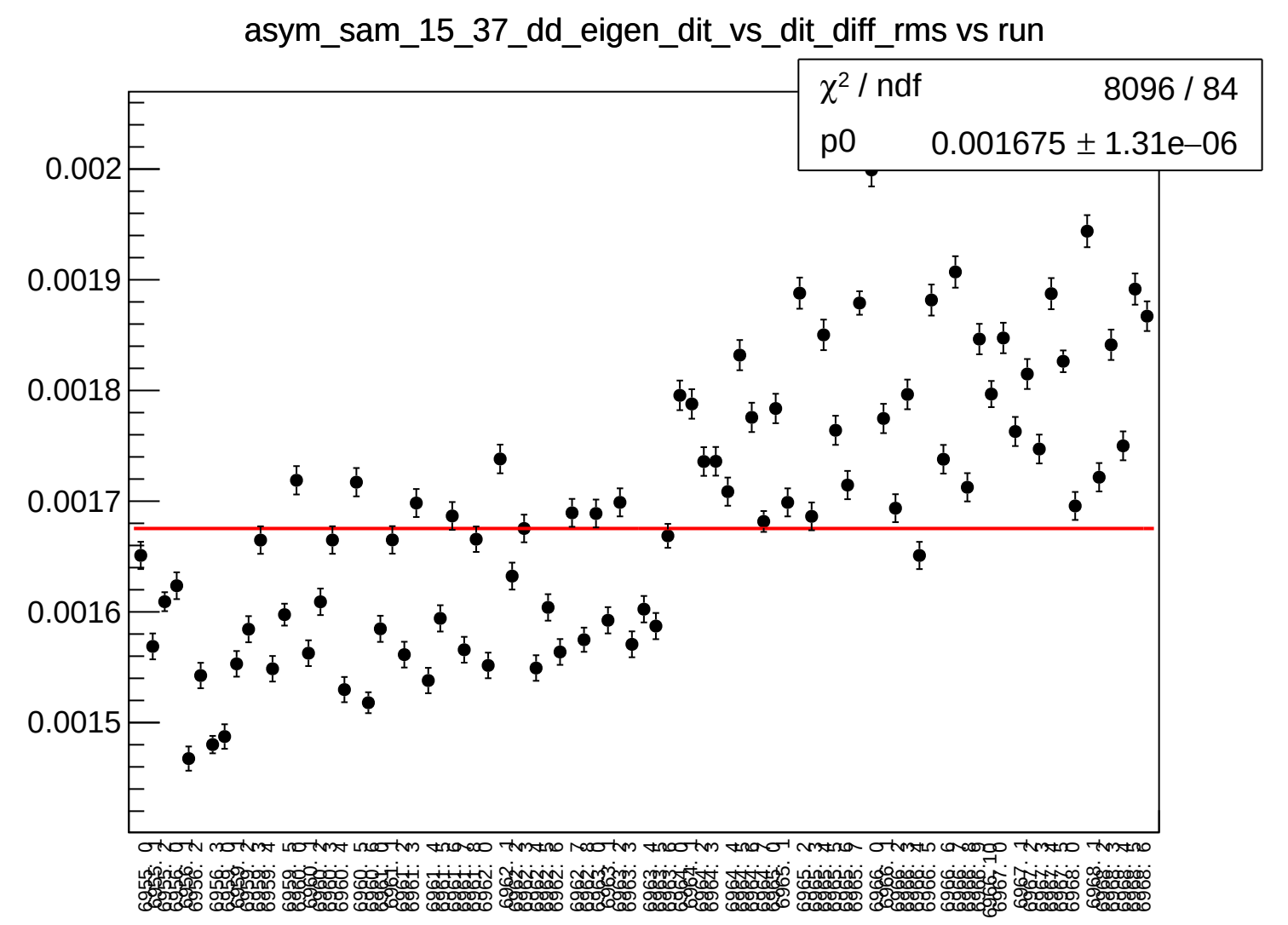

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.43 / 84
p0 −0.02805 ± 0.02406
pull
Entries 85
Mean 216
Std Dev 0

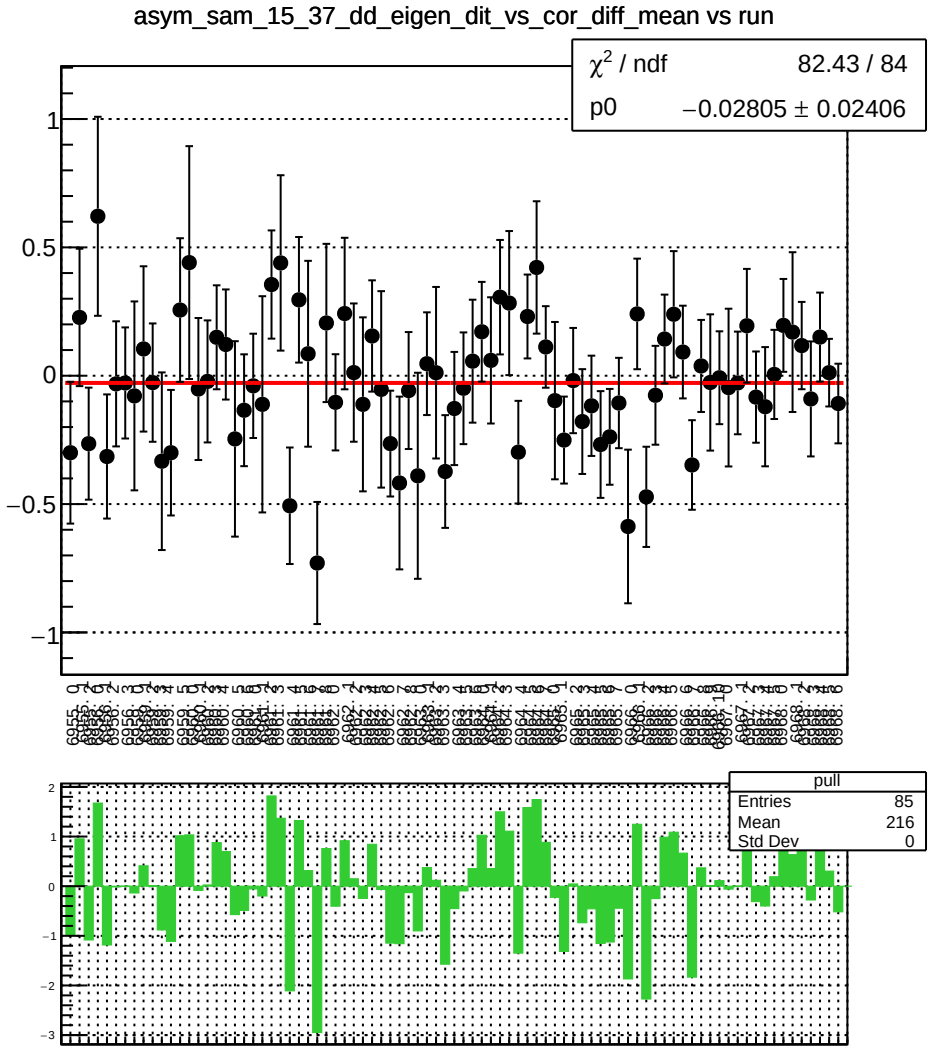

pull1D
Entries 85
Mean 0.004666
Std Dev 0.9847

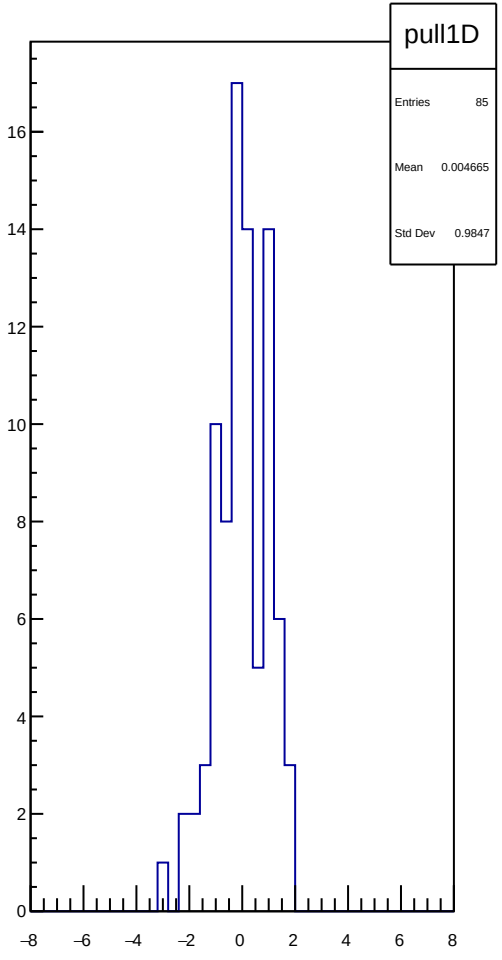

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.389e+04 / 84
p0 21.17 ± 0.01701
45
40
35
30
25
20
15
10

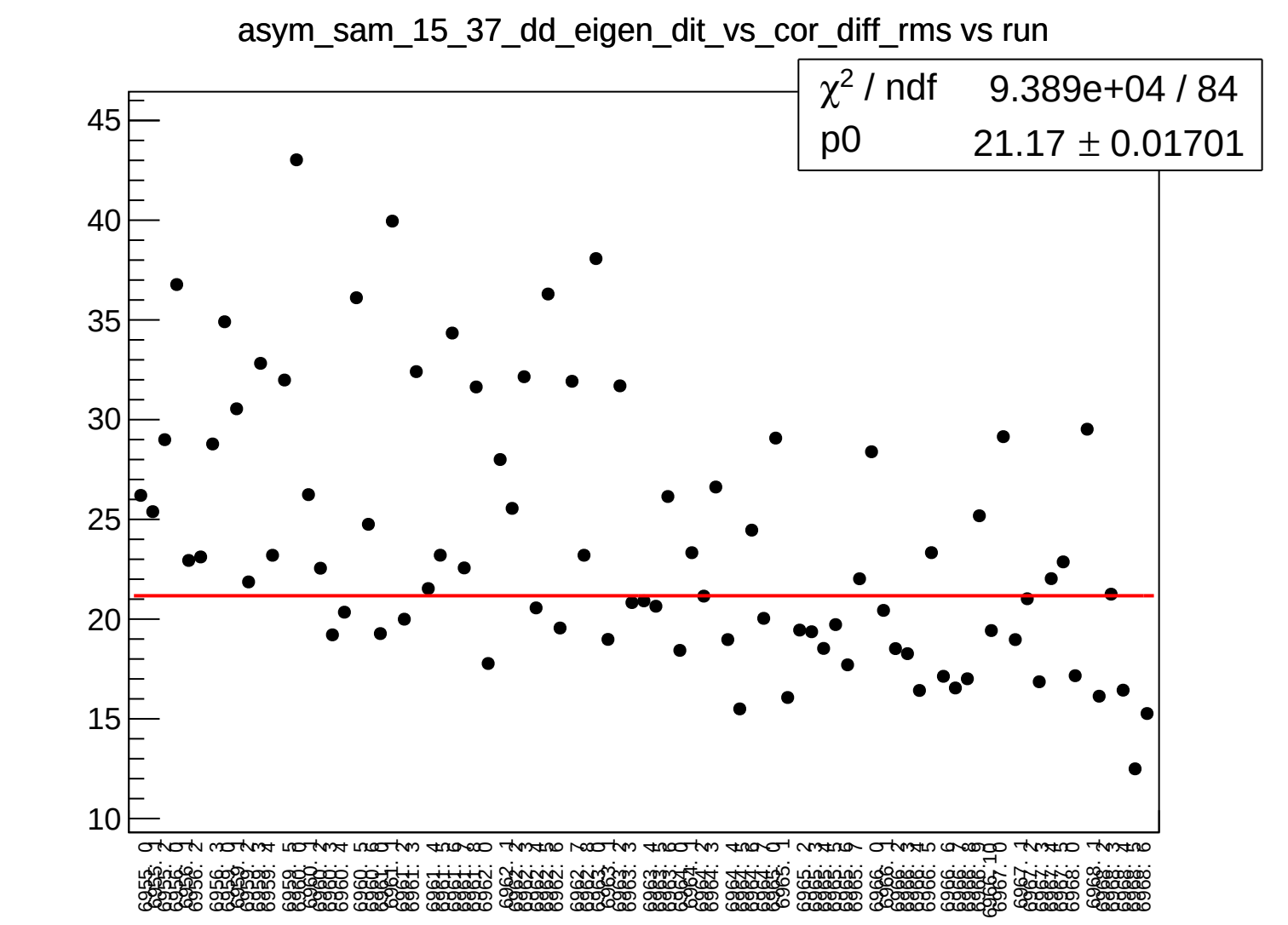

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.82 / 84
p0 −7.517e−07 ± 1.853e−06
pull
Entries 85
Mean 41.24
Std Dev 79.45

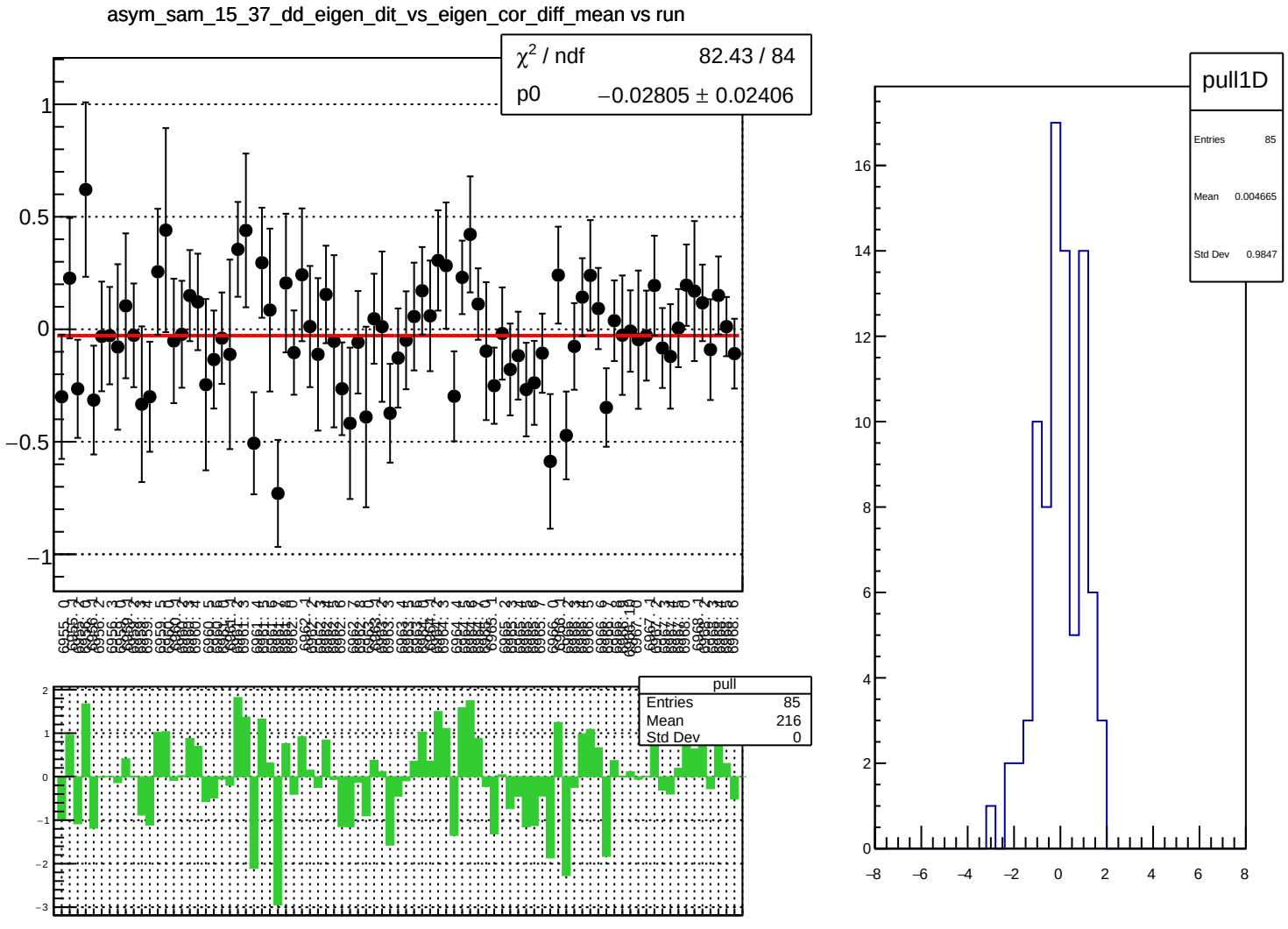

pull1D
Entries 85
Mean −0.007411
Std Dev 1.084

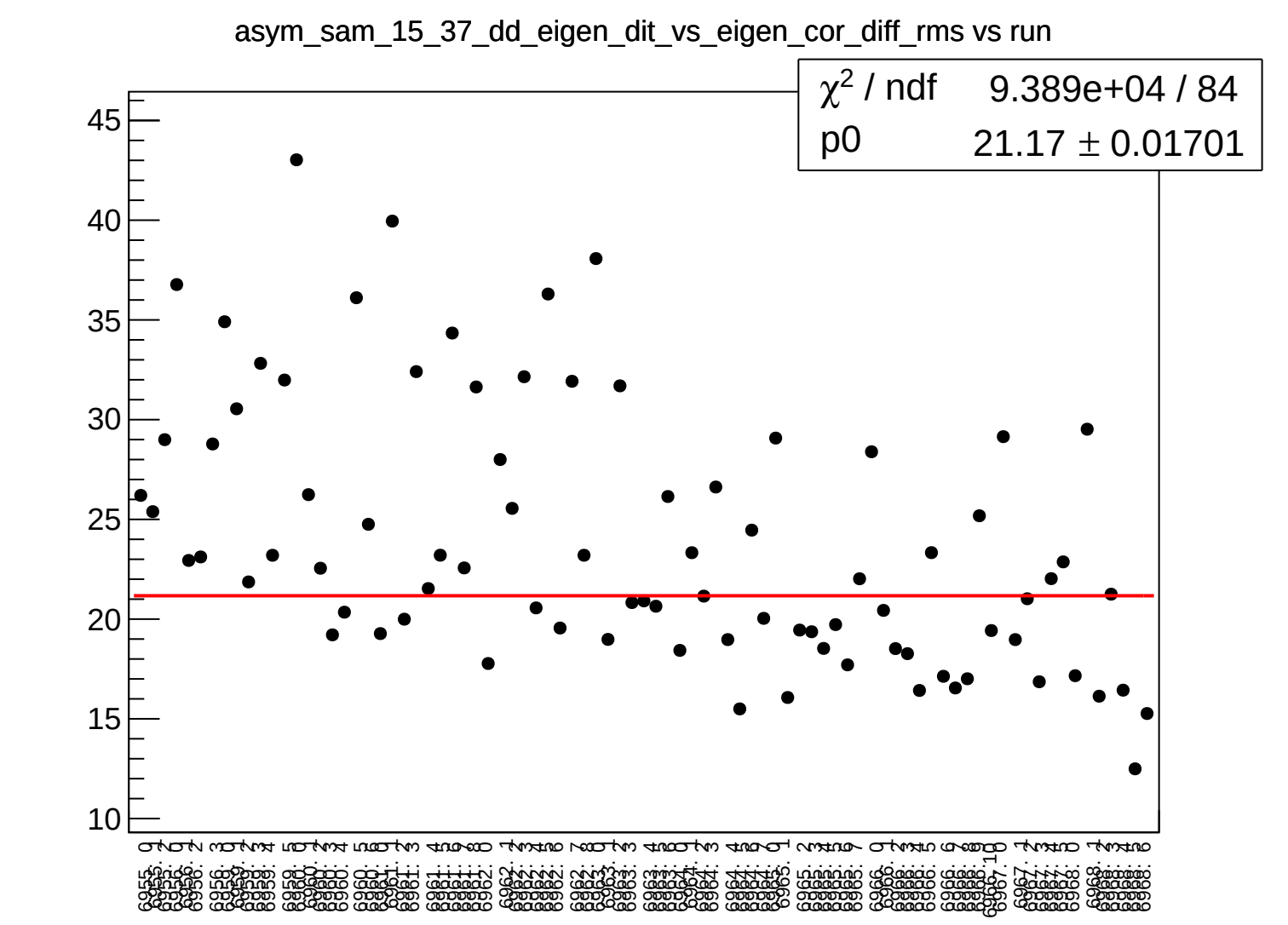

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8096 / 84
p0 0.001675 ± 1.31e–06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

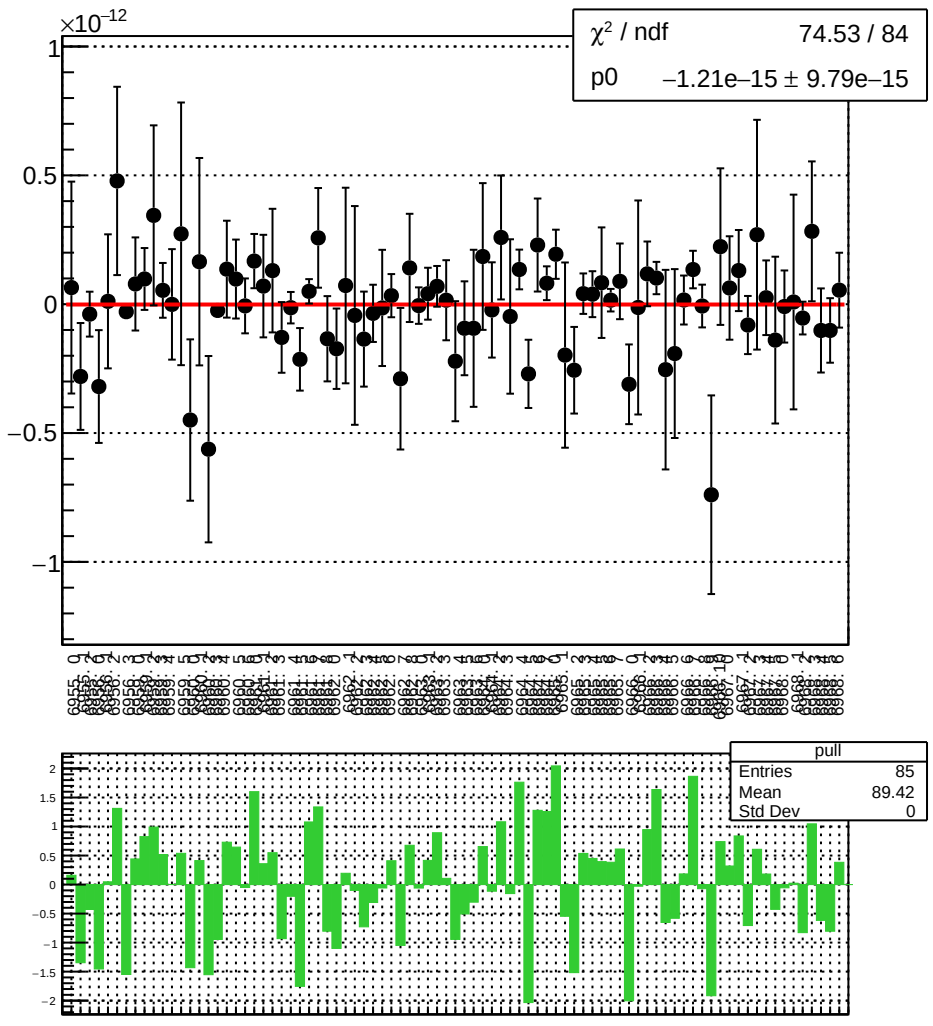

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.43 / 84
p0 −0.02805 ± 0.02406
pull
Entries 85
Mean 216
Std Dev 0

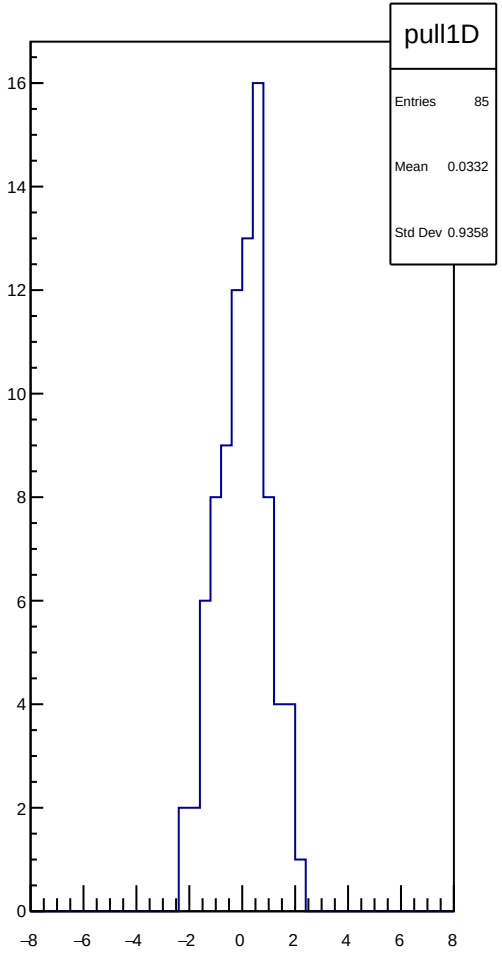

pull1D
Entries 85
Mean 0.004665
Std Dev 0.9847

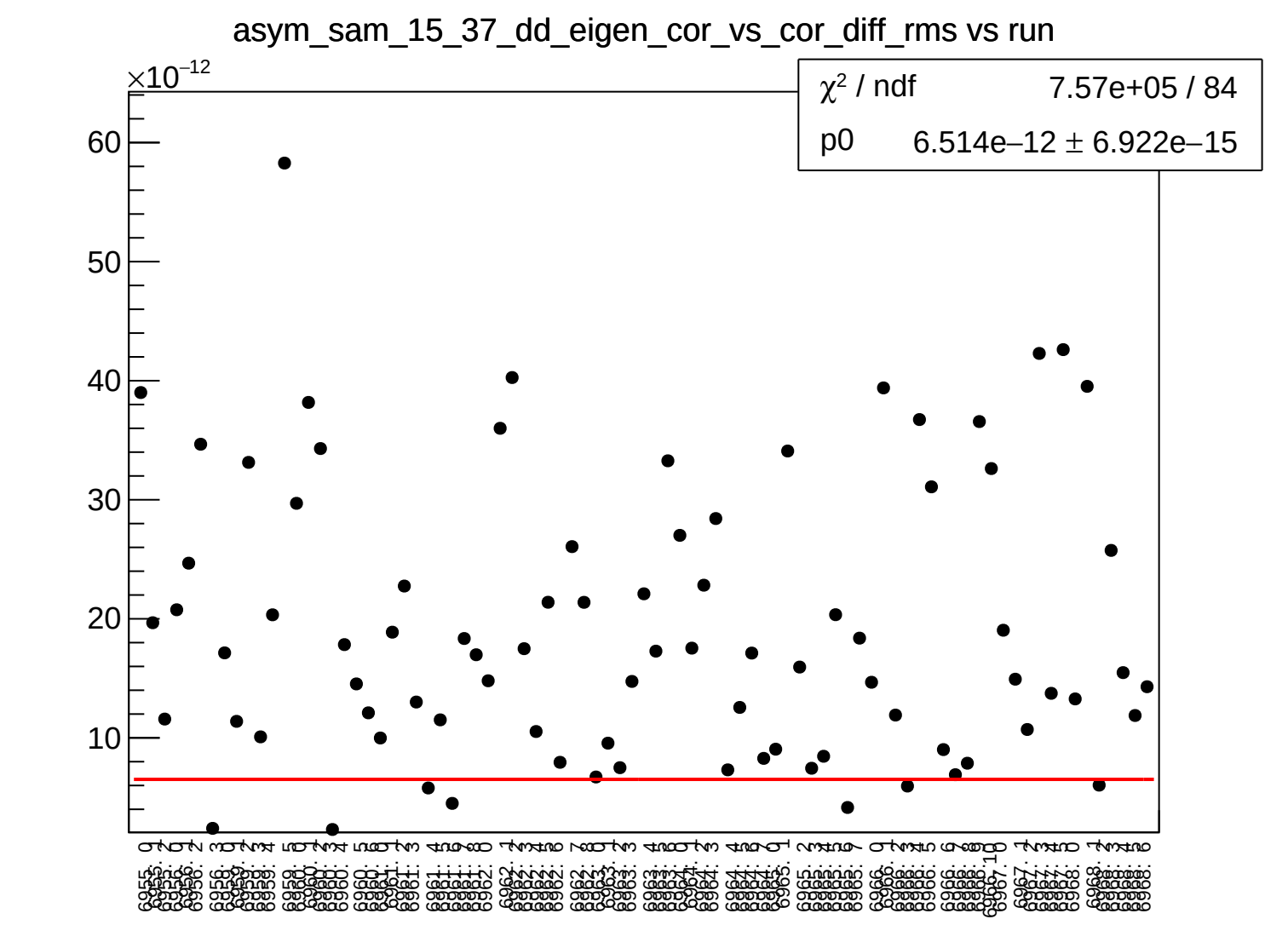

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.389e+04 / 84
p0 21.17 ± 0.01701
45
40
35
30
25
20
15
10

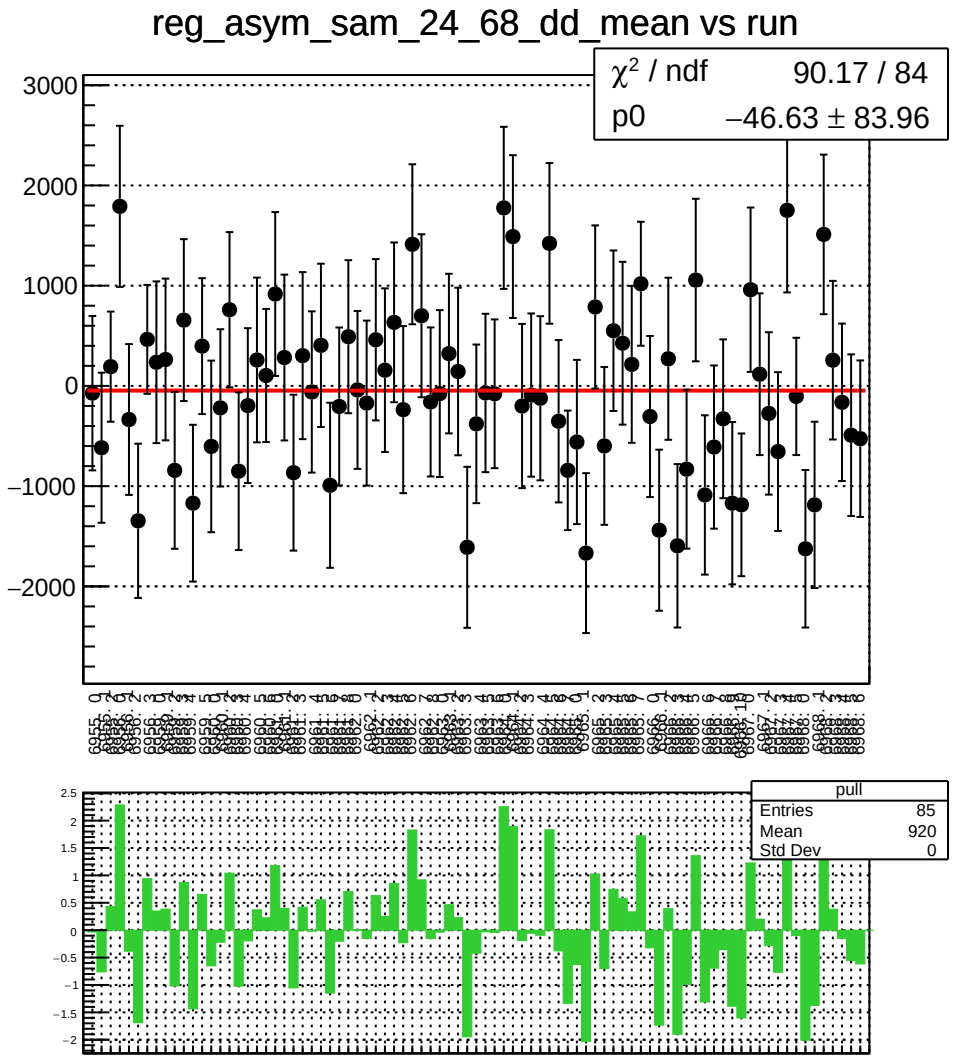

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.43 / 84
p0 −0.02805 ± 0.02406
pull
Entries 85
Mean 216
Std Dev 0
pull1D
Entries 85
Mean 0.004665
Std Dev 0.9847

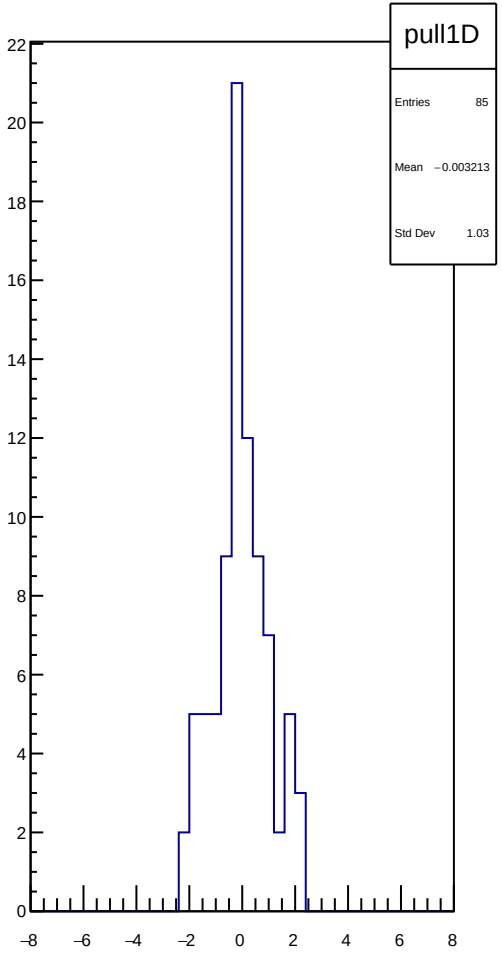

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.389e+04 / 84
p0 21.17 ± 0.01701
45
40
35
30
25
20
15
10

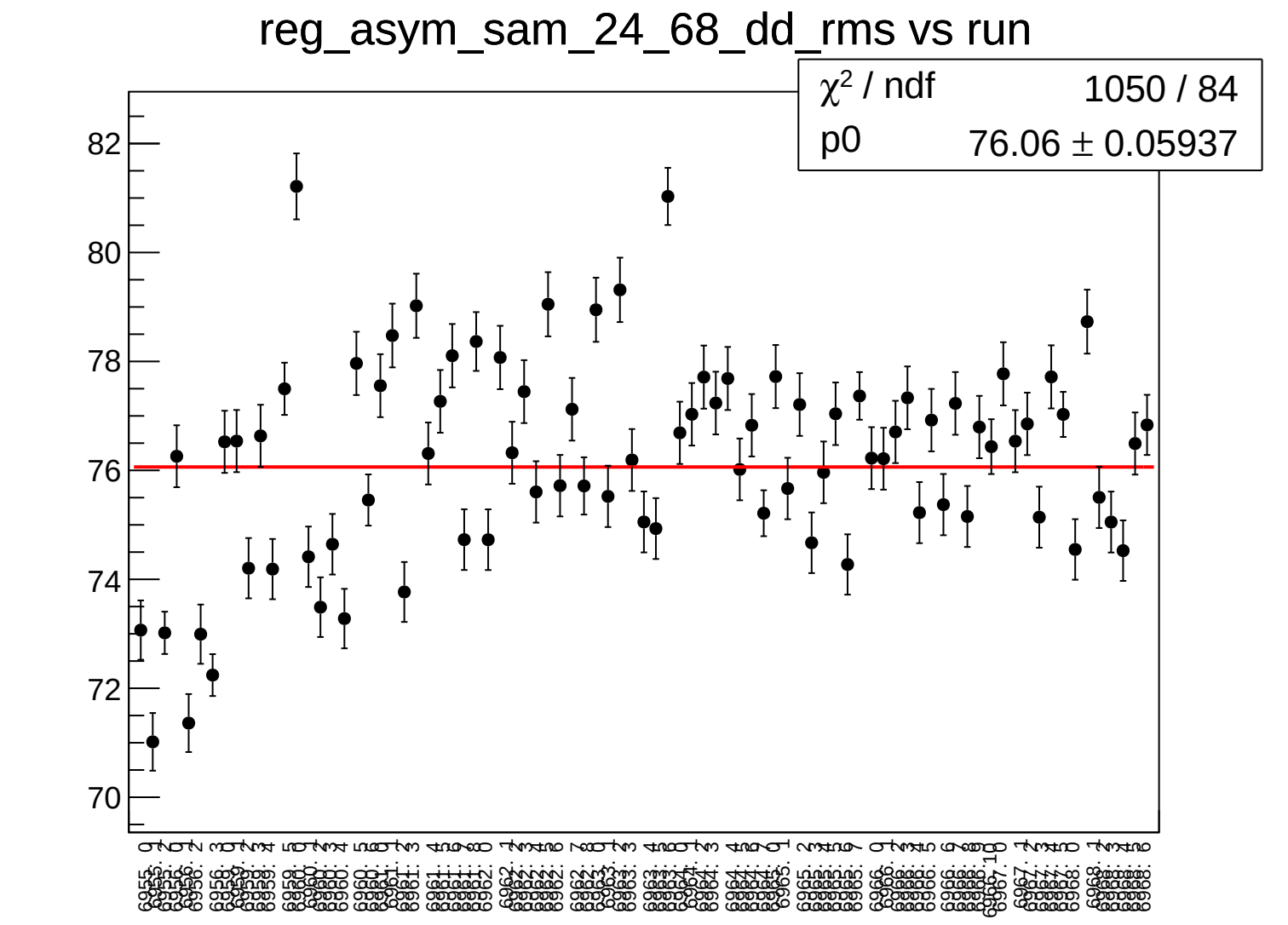

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 74.53 / 84
p0 −1.21e−15 ± 9.79e−15
pull
Entries 85
Mean 89.42
Std Dev 0

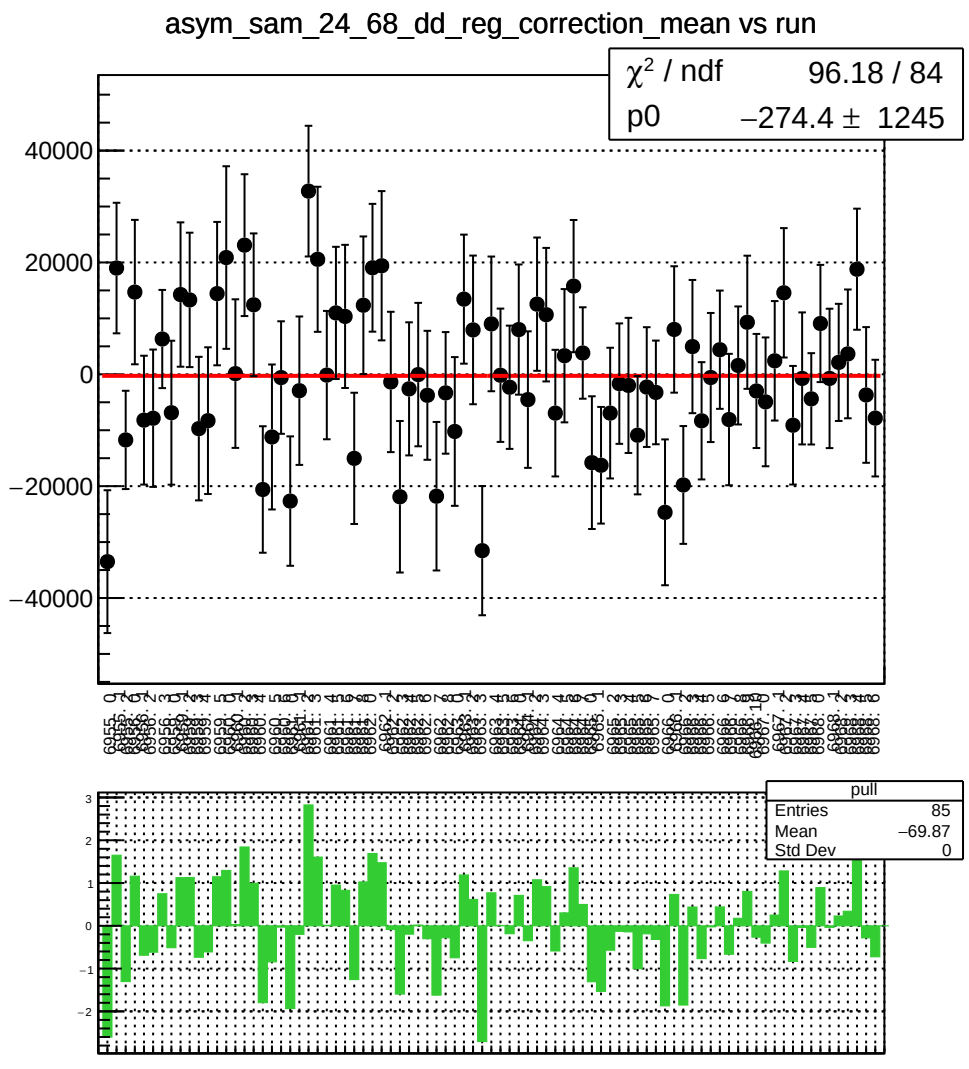

pull1D
Entries 85
Mean 0.0332
Std Dev 0.9358

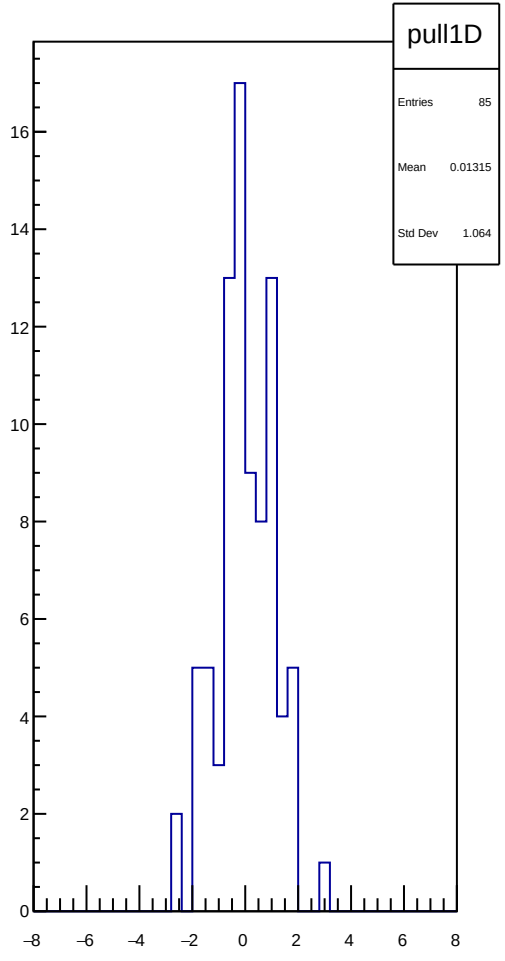

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.57e+05 / 84
p0 6.514e−12 ± 6.922e−15
60
50
40
30
20
10

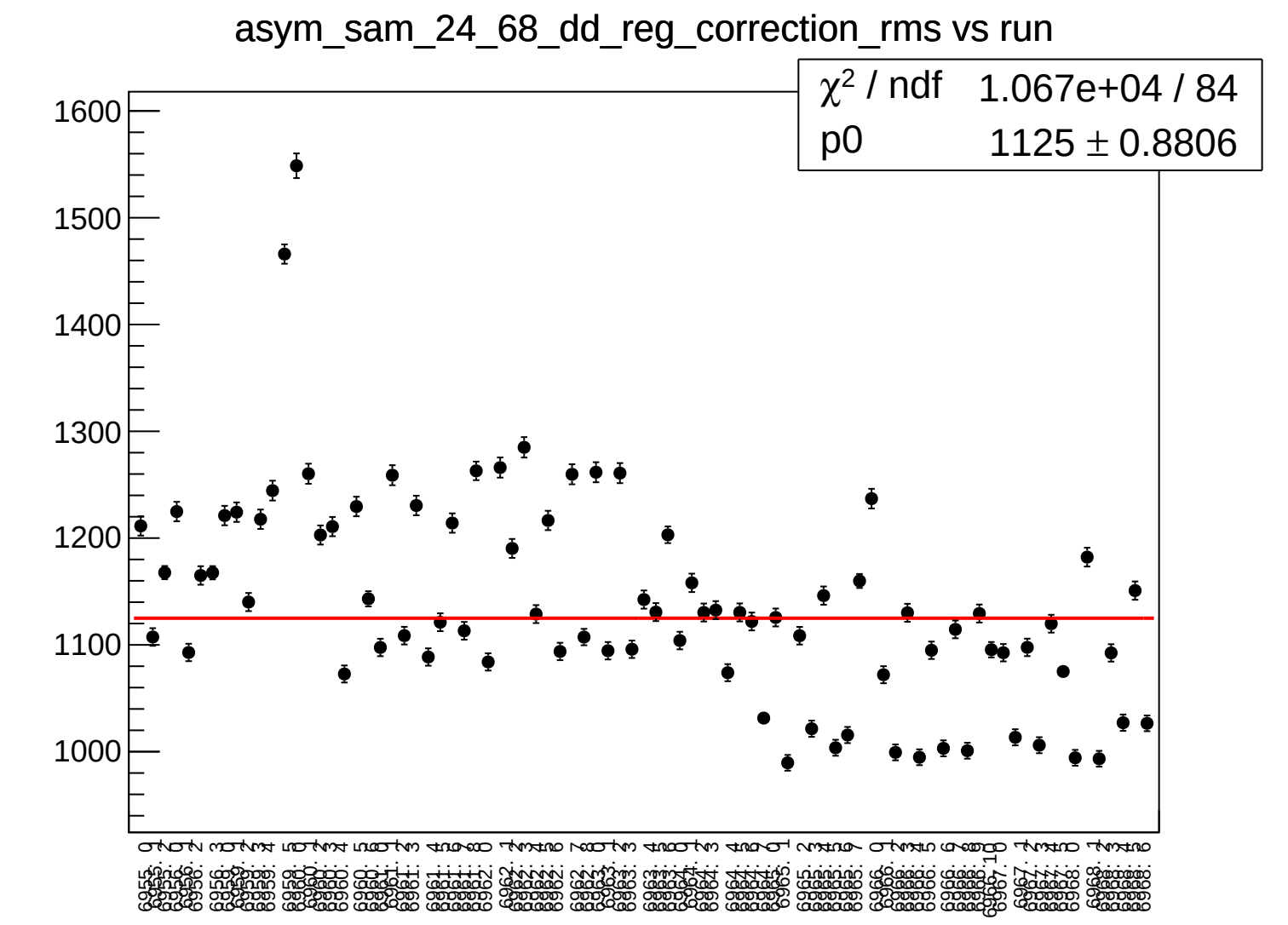

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 90.17 / 84
p0 −46.63 ± 83.96
pull
Entries 85
Mean 920
Std Dev 0

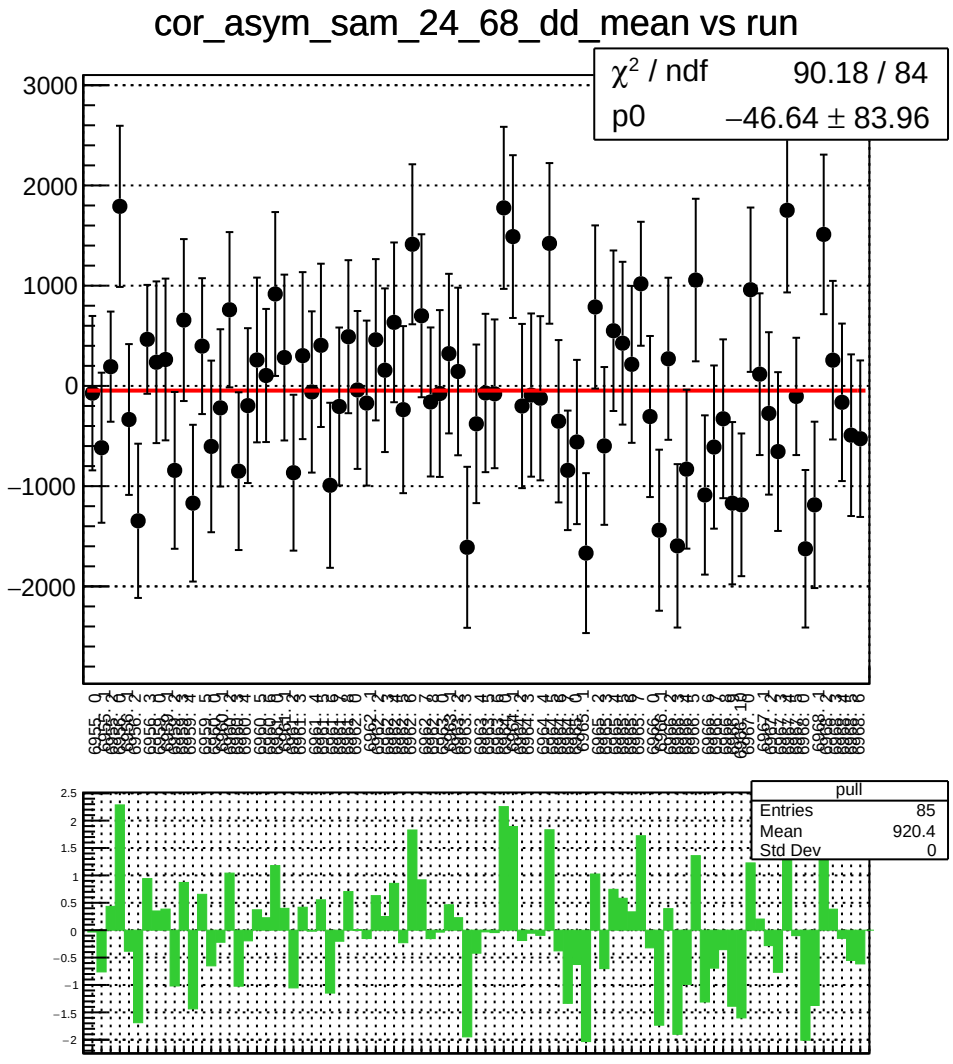

pull1D
Entries 85
Mean −0.003213
Std Dev 1.03

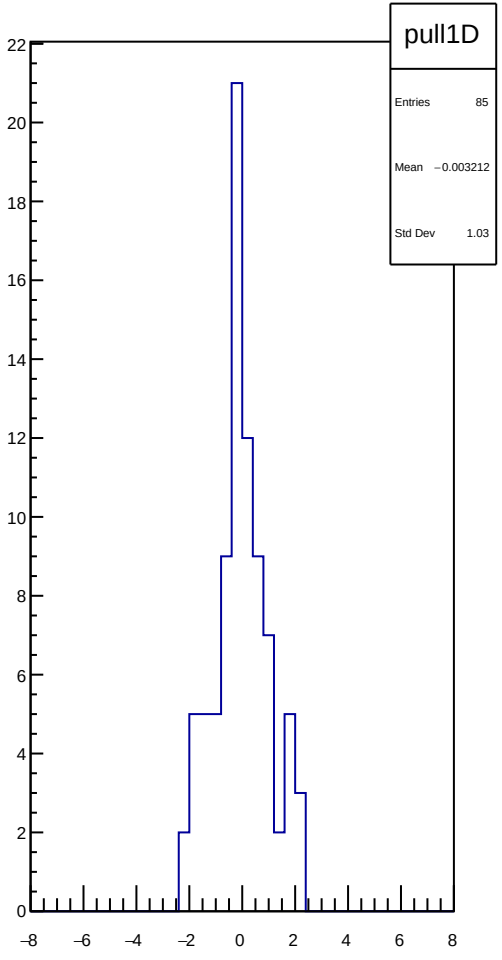

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1050 / 84
p0 76.06 ± 0.05937
82
80
78
76
74
72
70

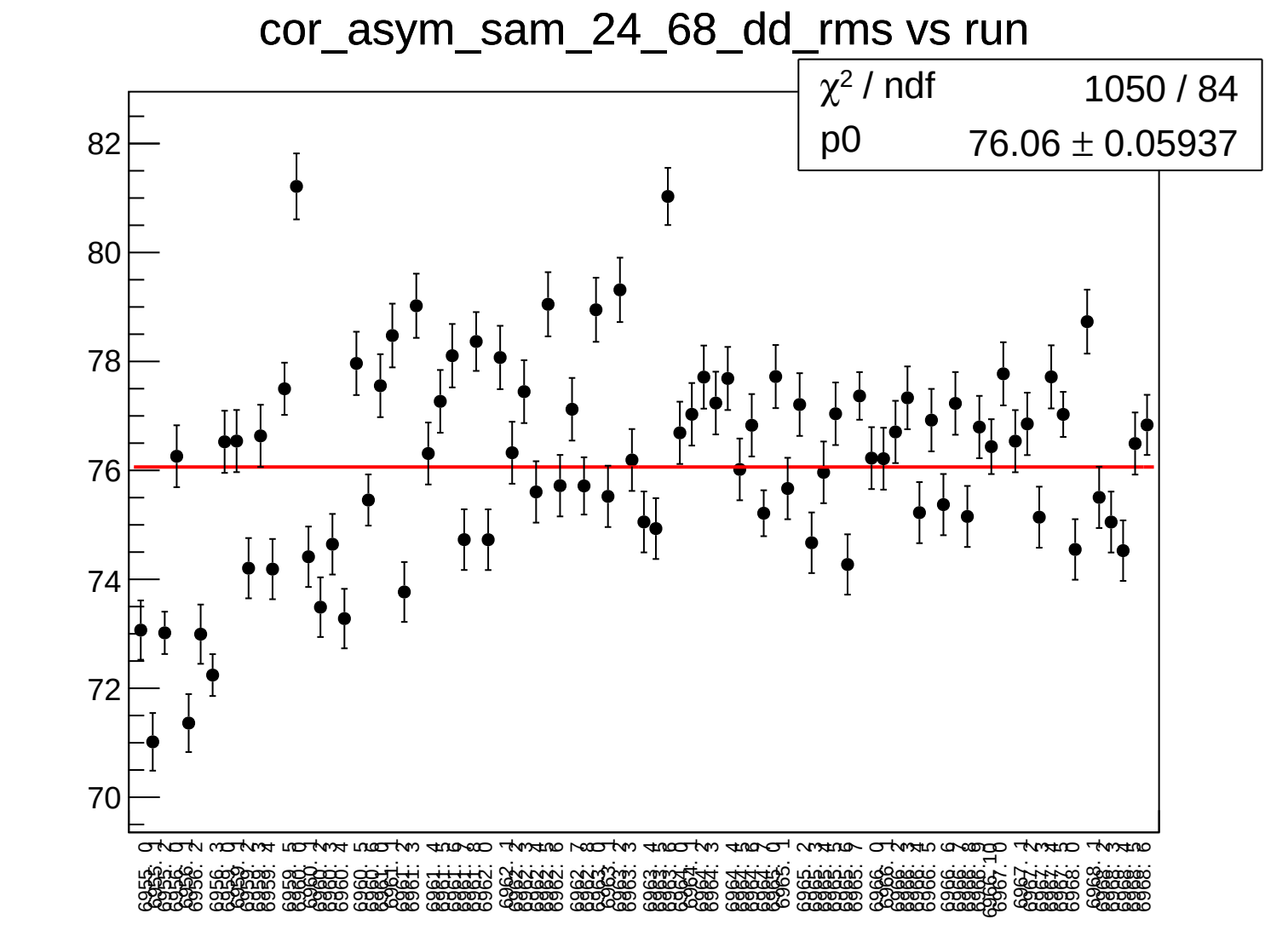

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 96.18 / 84
p0 −274.4 ± 1245
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −69.87
Std Dev 0
3
2
1
0
−1
−2

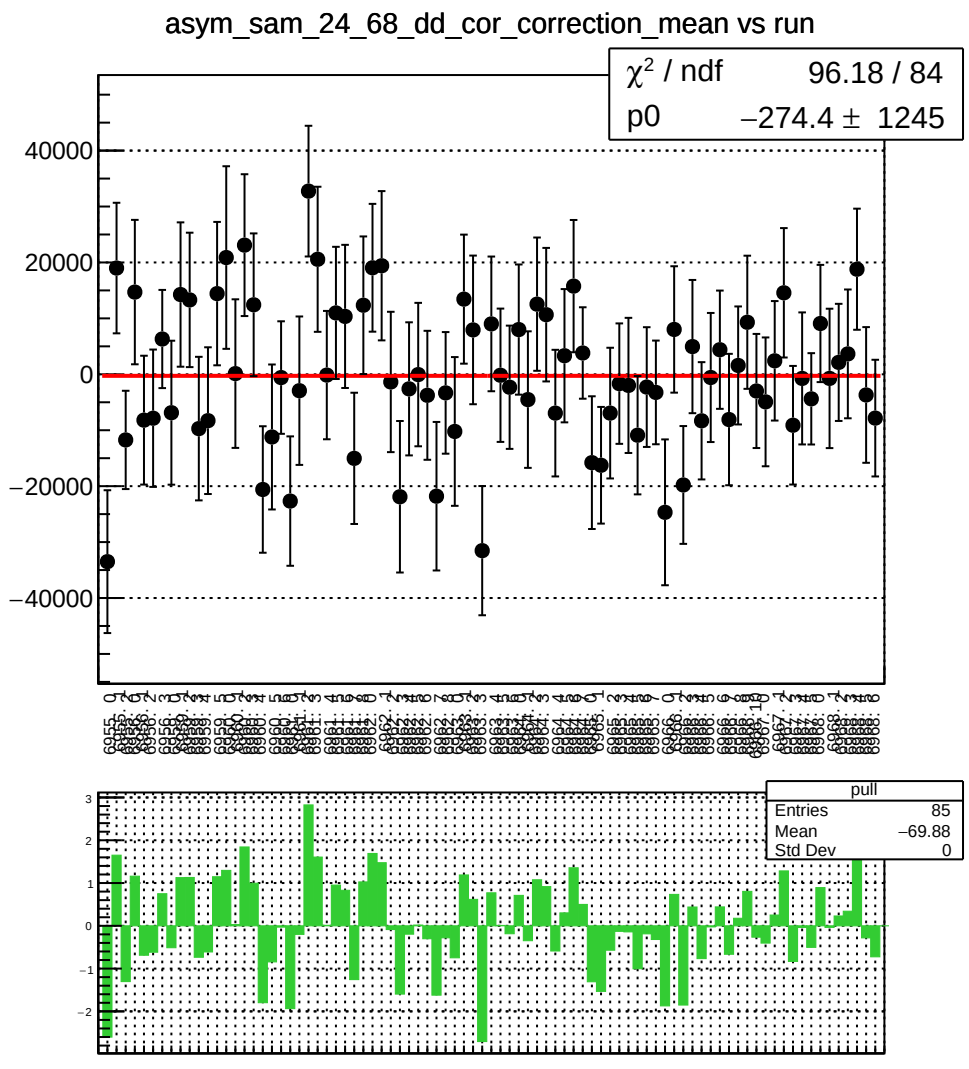

pull1D
Entries 85
Mean 0.01315
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

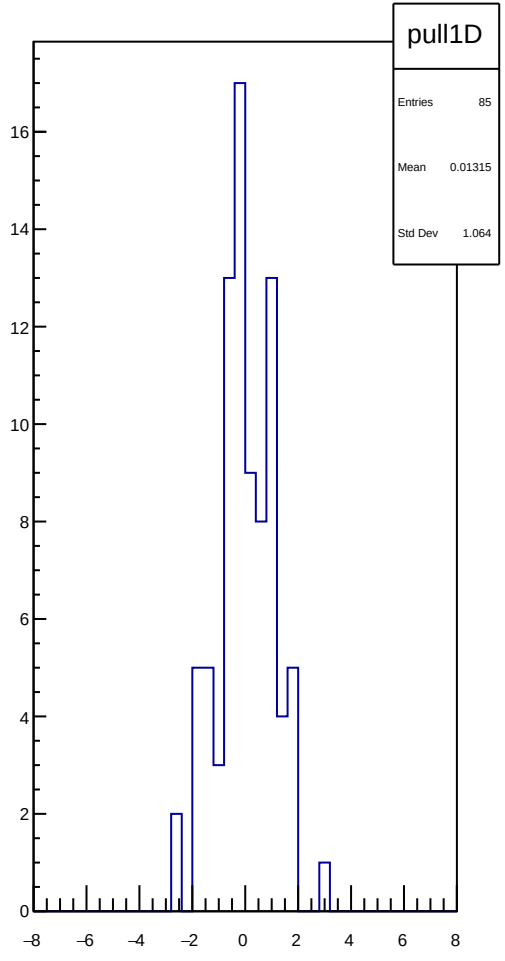

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.067e+04 / 84
p0 1125 ± 0.8806
1600
1500
1400
1300
1200
1100
1000

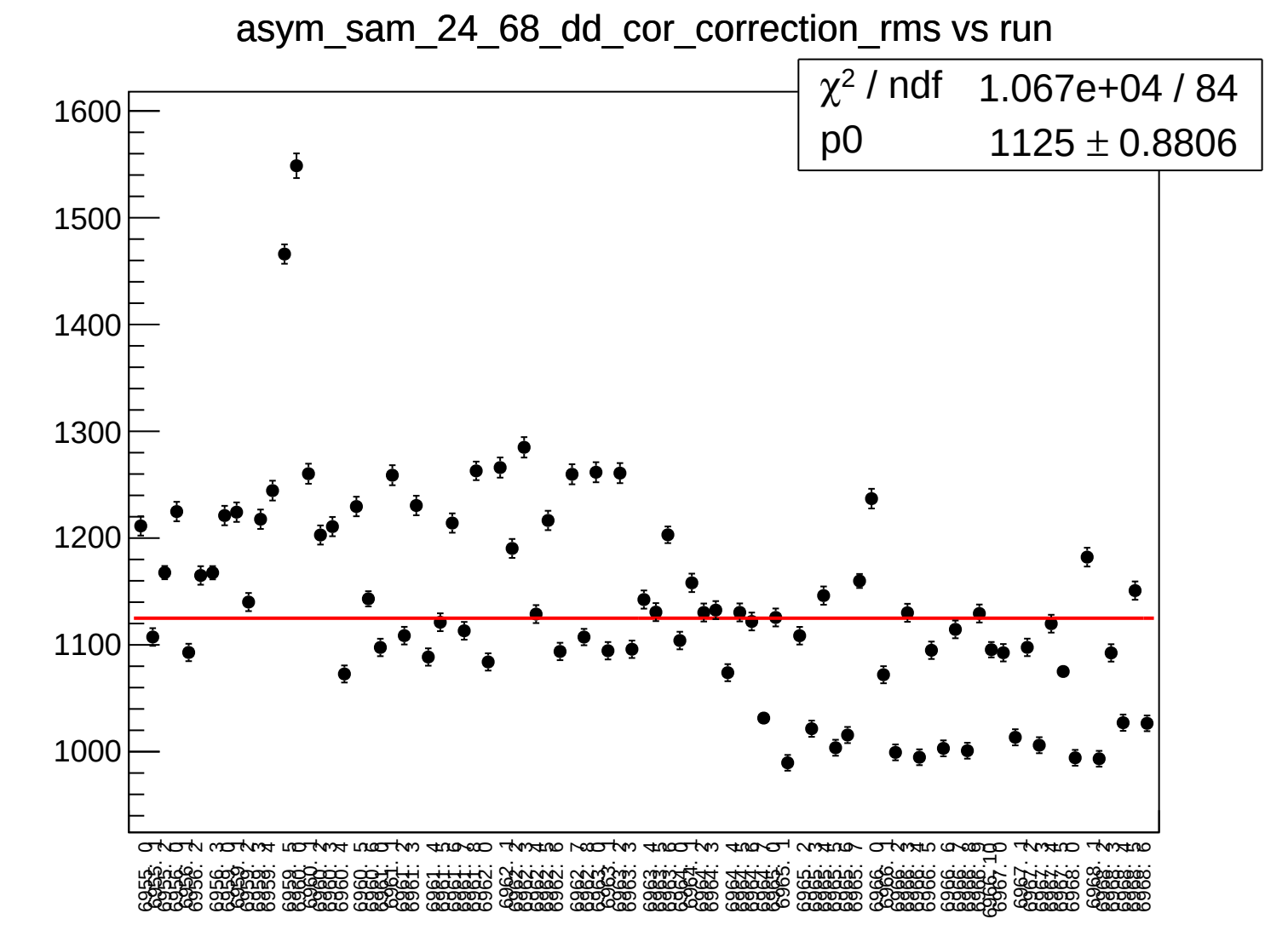

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 90.18 / 84
p0 −46.64 ± 83.96
pull
Entries 85
Mean 920.4
Std Dev 0

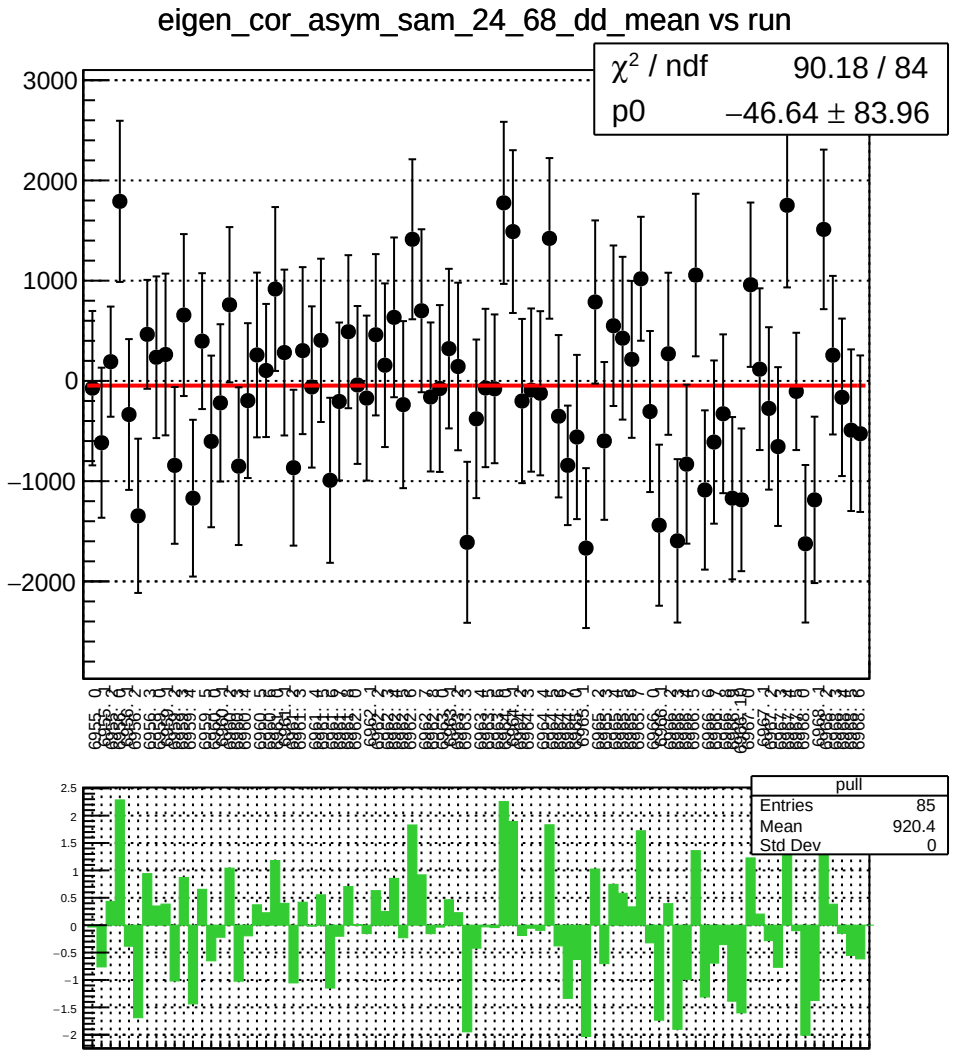

pull1D
Entries 85
Mean −0.003212
Std Dev 1.03

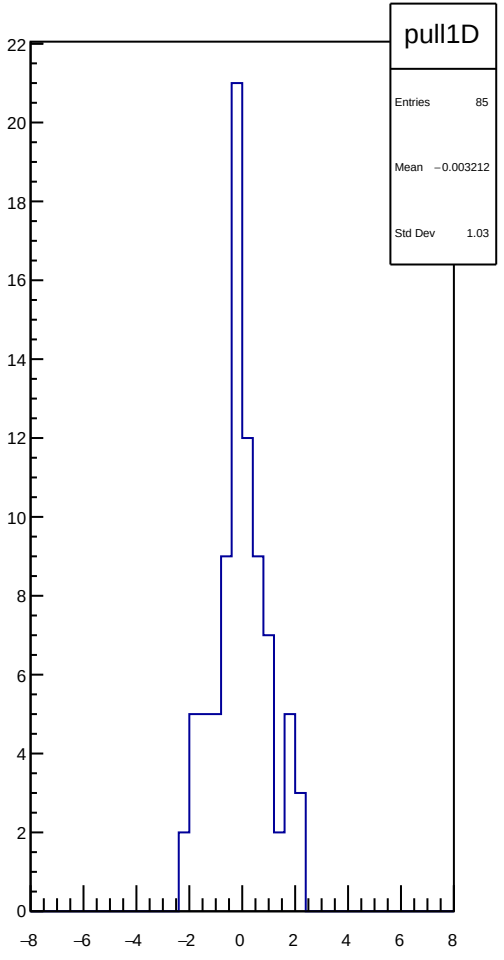

cor_asym_sam_24_68_dd_rms vs run
$\chi^2$ / ndf 1050 / 84
p0 76.06 ± 0.05937
82
80
78
76
74
72
70

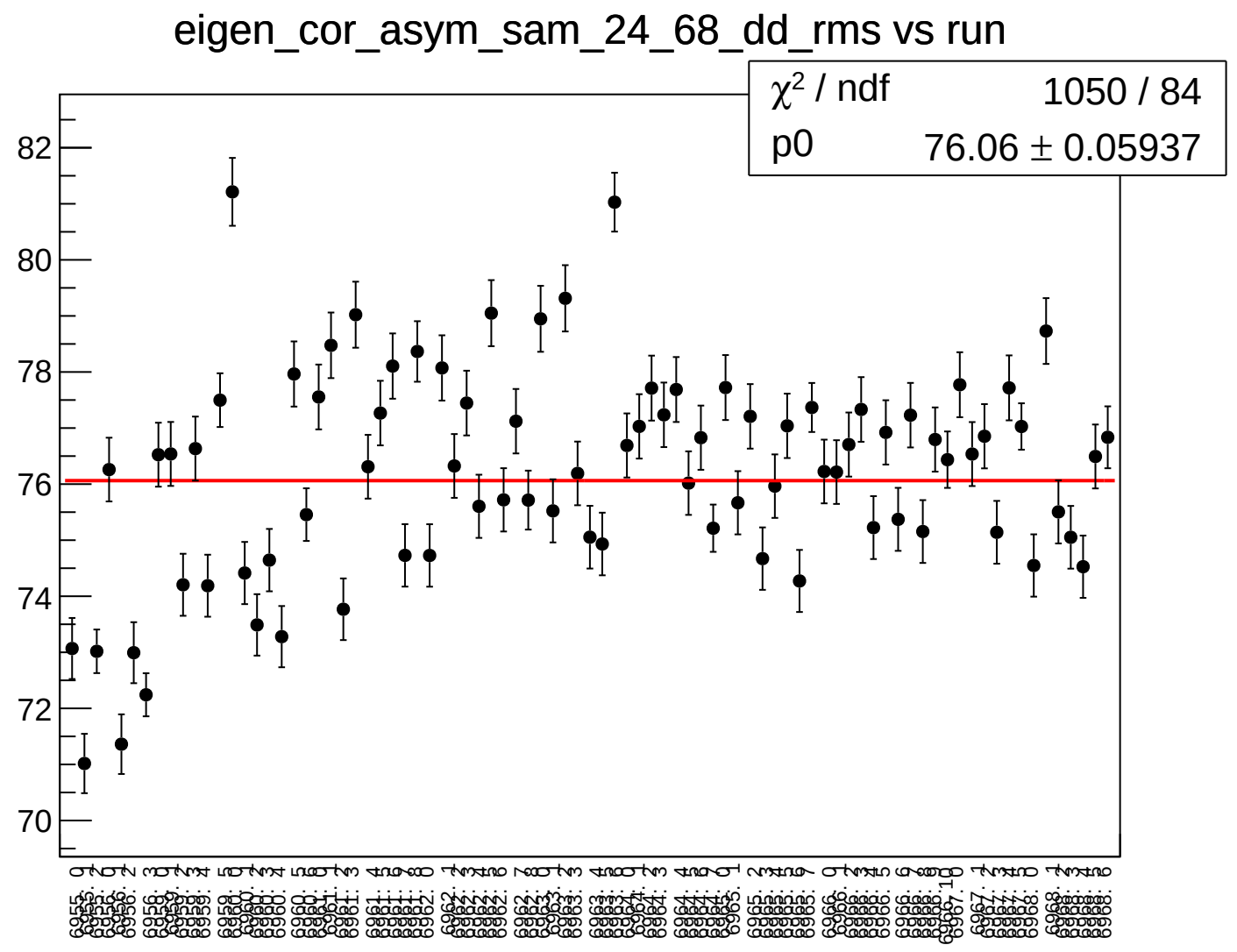

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 96.18 / 84
p0 −274.4 ± 1245
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −69.88
Std Dev 0
3
2
1
0
−1
−2

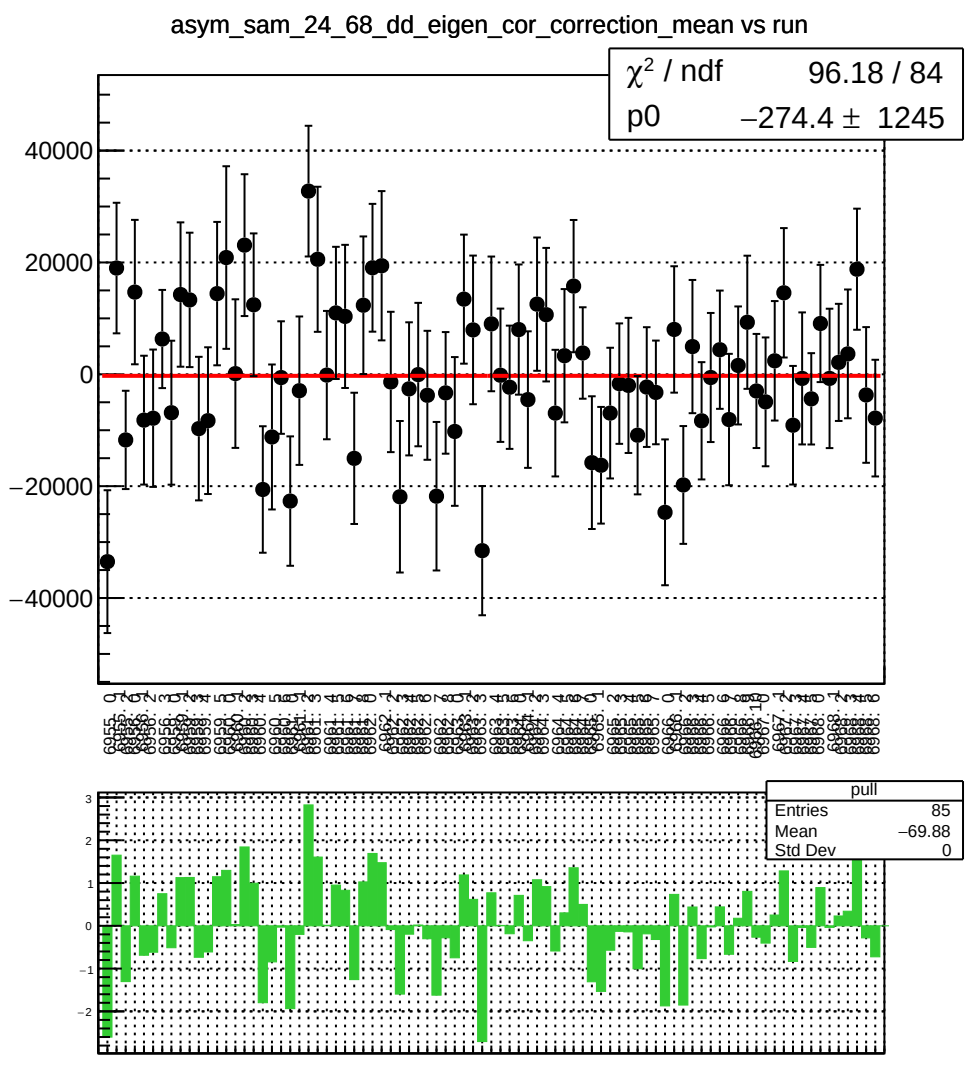

pull1D
Entries 85
Mean 0.01315
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

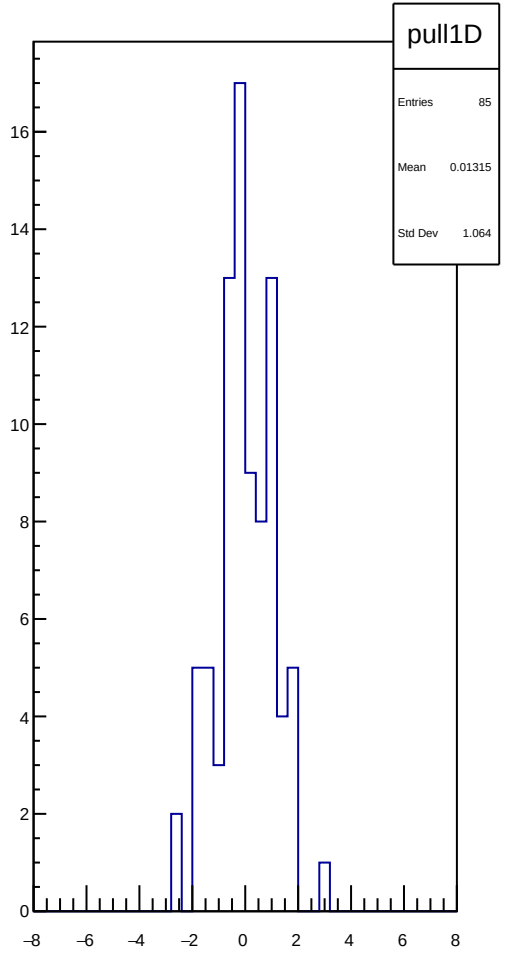

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1.067e+04 / 84
p0 1125 ± 0.8806
1600
1500
1400
1300
1200
1100
1000

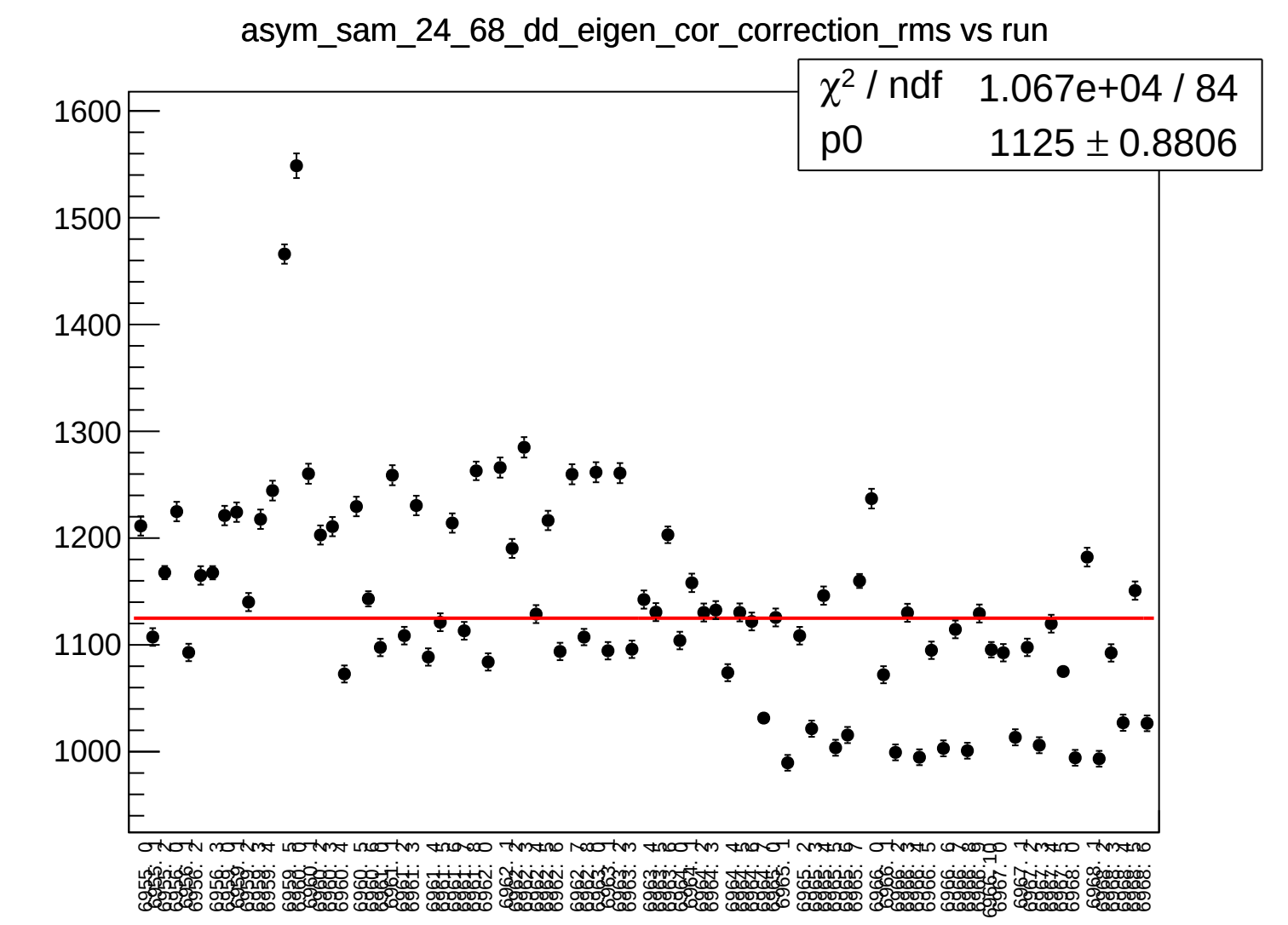

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 90.18 / 84
p0 −46.64 ± 83.96
pull
Entries 85
Mean 920.4
Std Dev 0

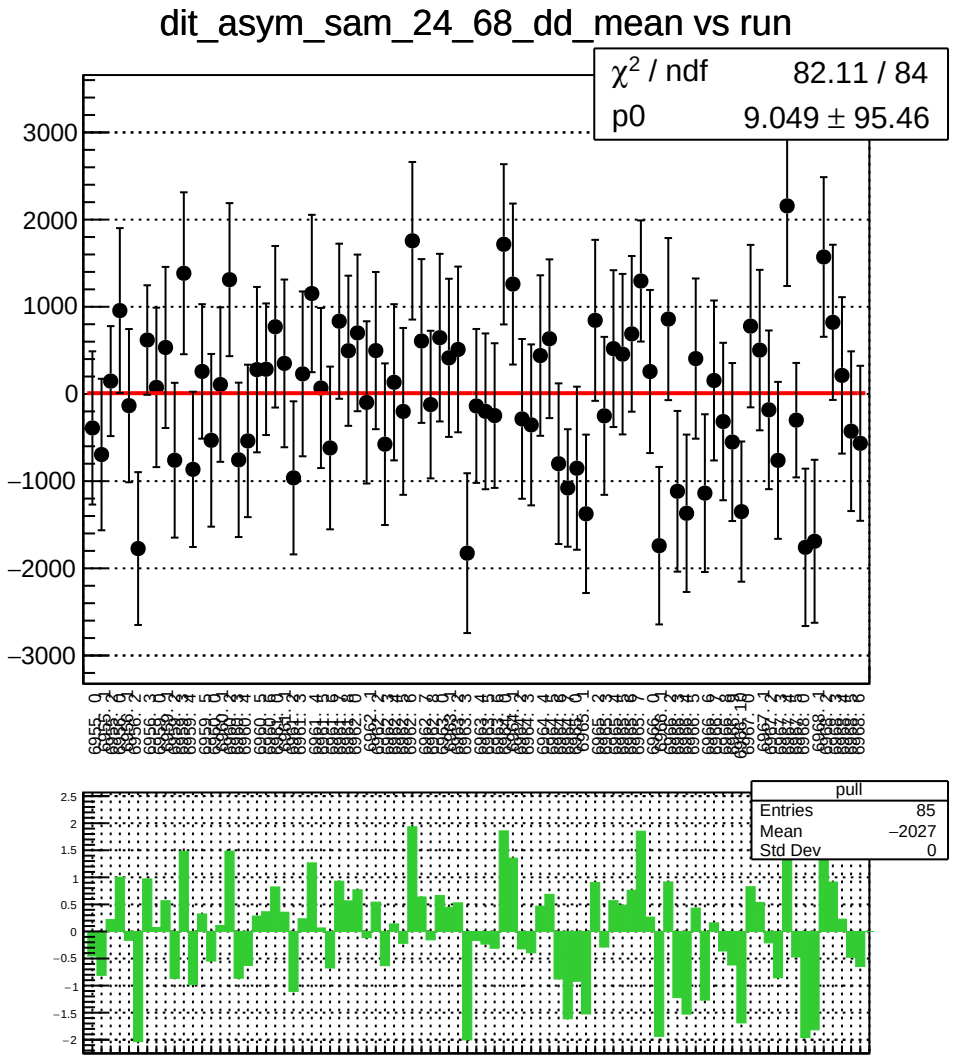

pull1D
Entries 85
Mean −0.003212
Std Dev 1.03

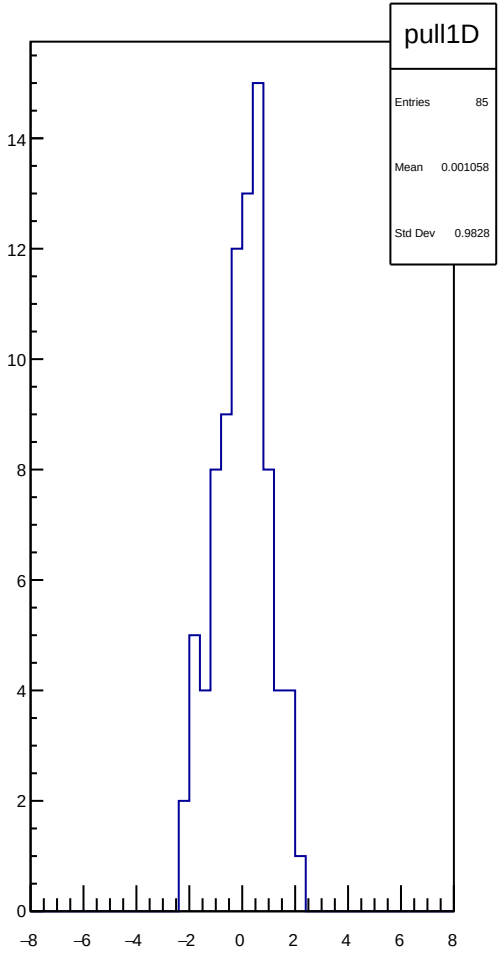

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1050 / 84
p0 76.06 ± 0.05937
82
80
78
76
74
72
70

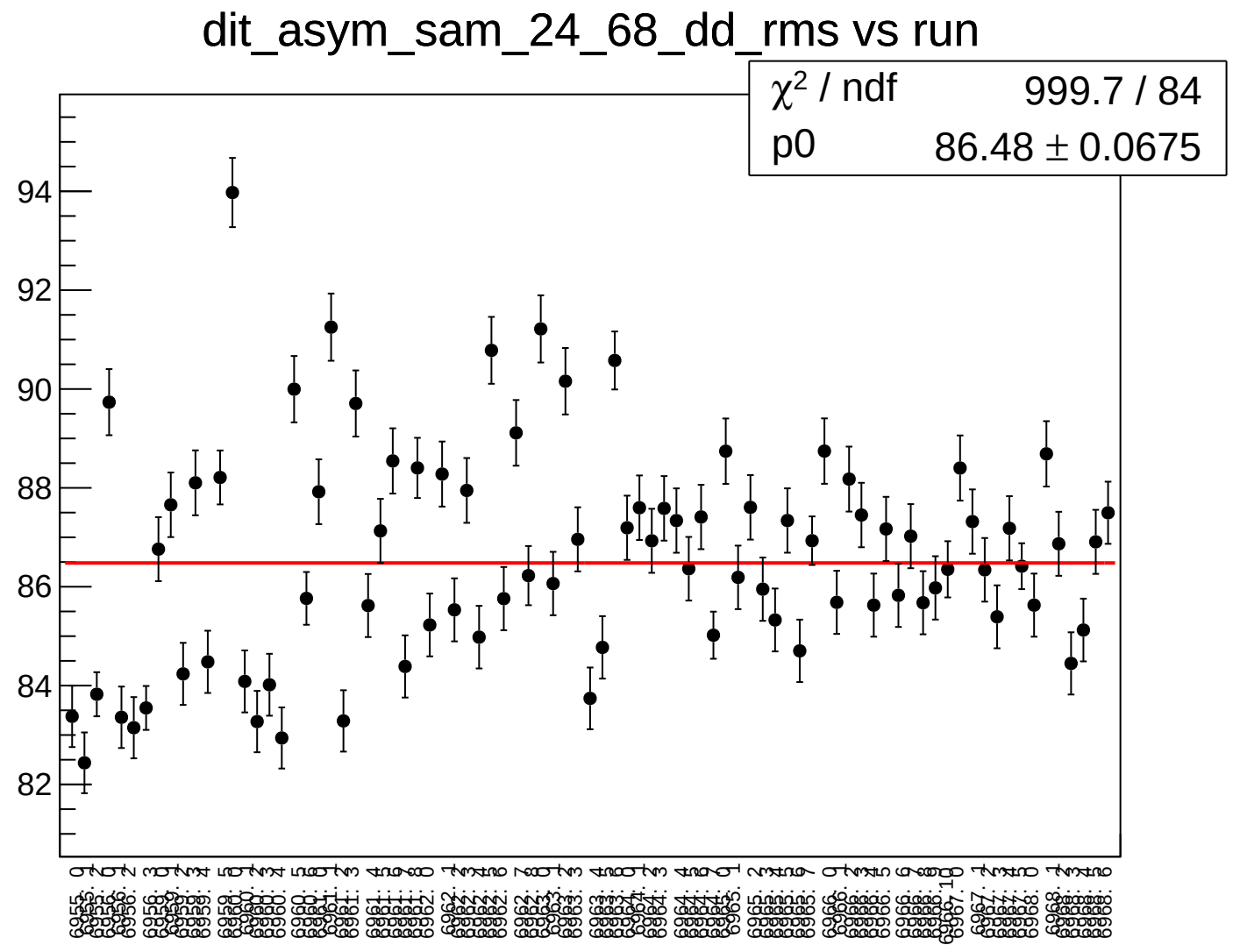

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.18 / 84
p0 −274.4 ± 1245
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −69.88
Std Dev 0
3
2
1
0
−1
−2

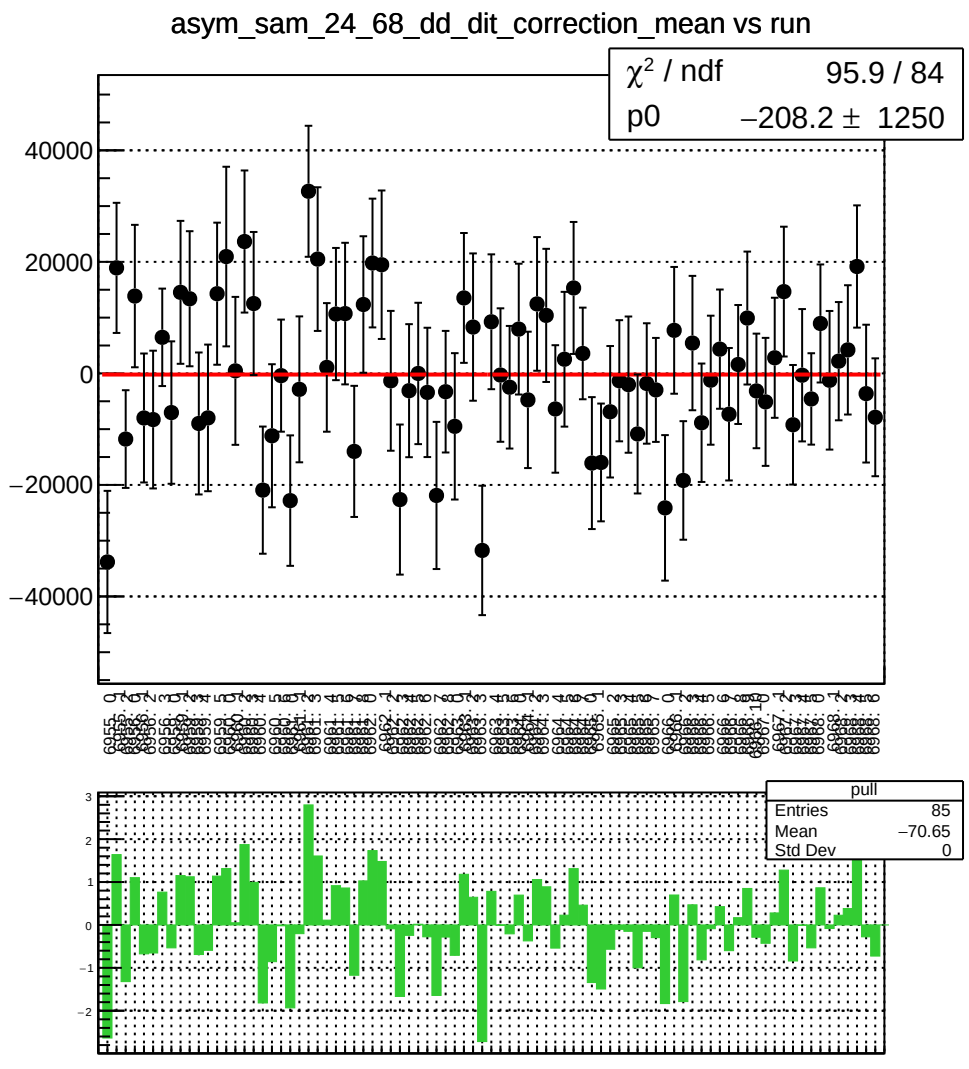

pull1D
Entries 85
Mean 0.01315
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

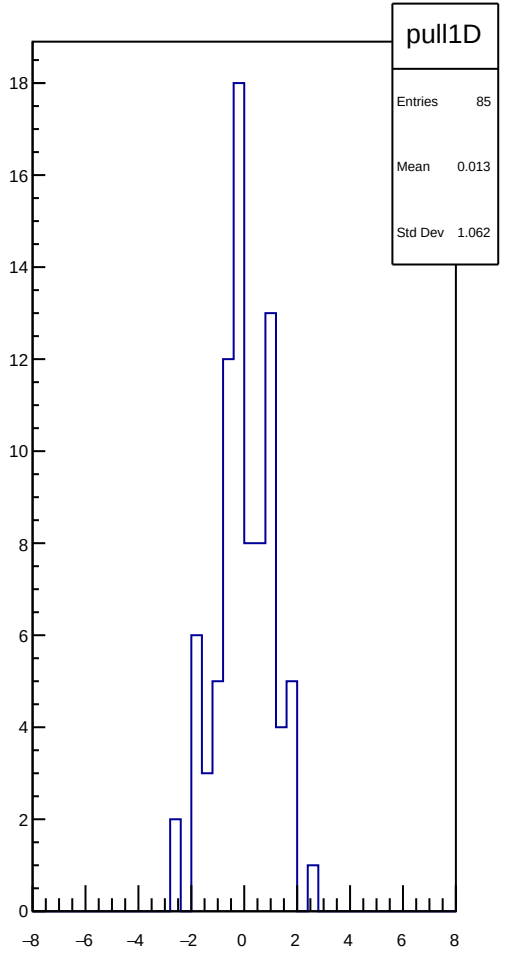

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.067e+04 / 84
p0 1125 ± 0.8806
1600
1500
1400
1300
1200
1100
1000

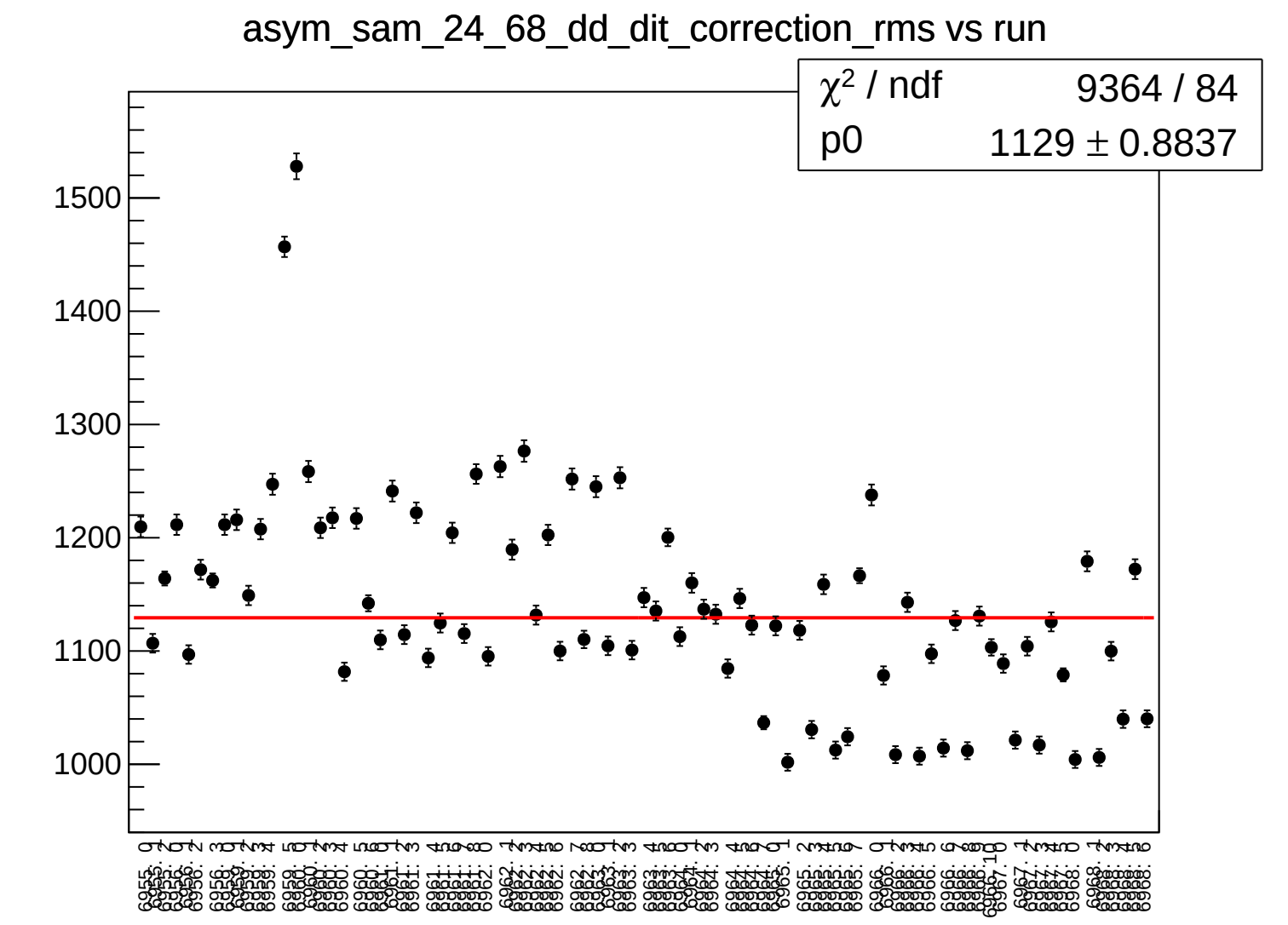

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 82.11 / 84
p0 9.049 ± 95.46
pull
Entries 85
Mean −2027
Std Dev 0

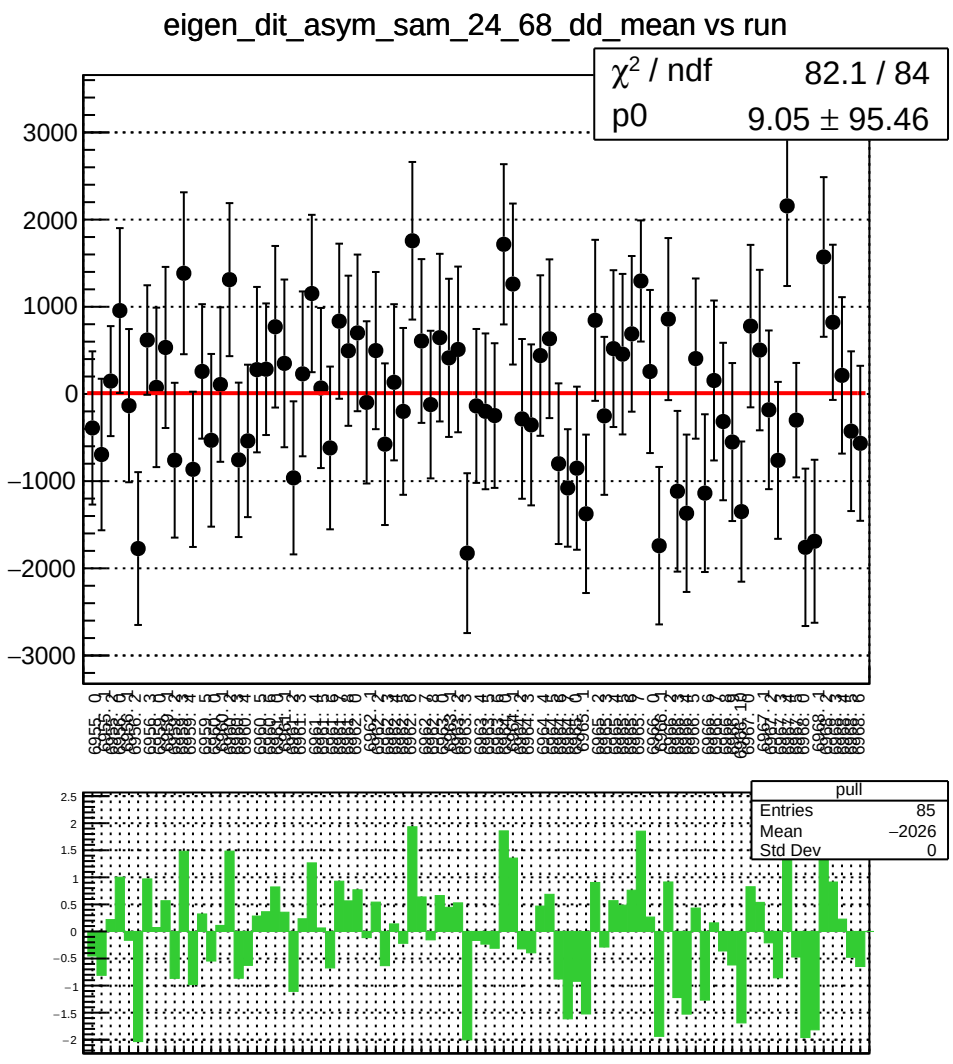

pull1D
Entries 85
Mean 0.001058
Std Dev 0.9828

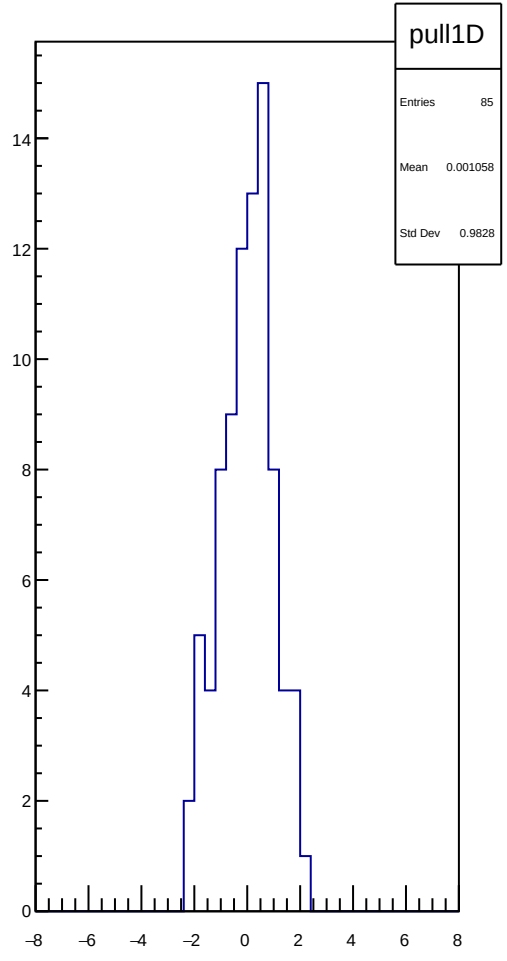

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 999.7 / 84
p0 86.48 ± 0.0675
94
92
90
88
86
84
82

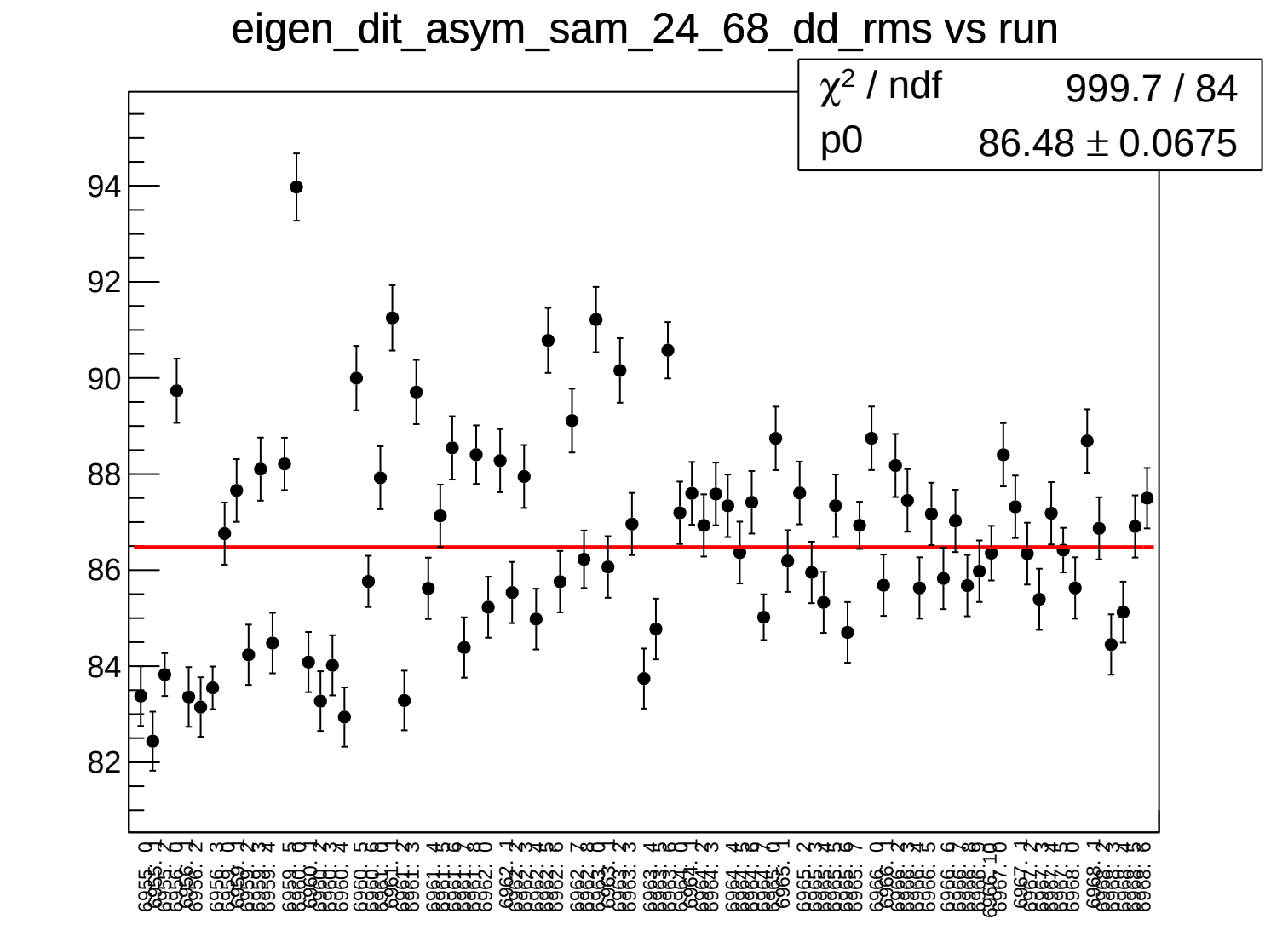

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 95.9 / 84
p0 −208.2 ± 1250
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −70.65
Std Dev 0
3
2
1
0
−1
−2

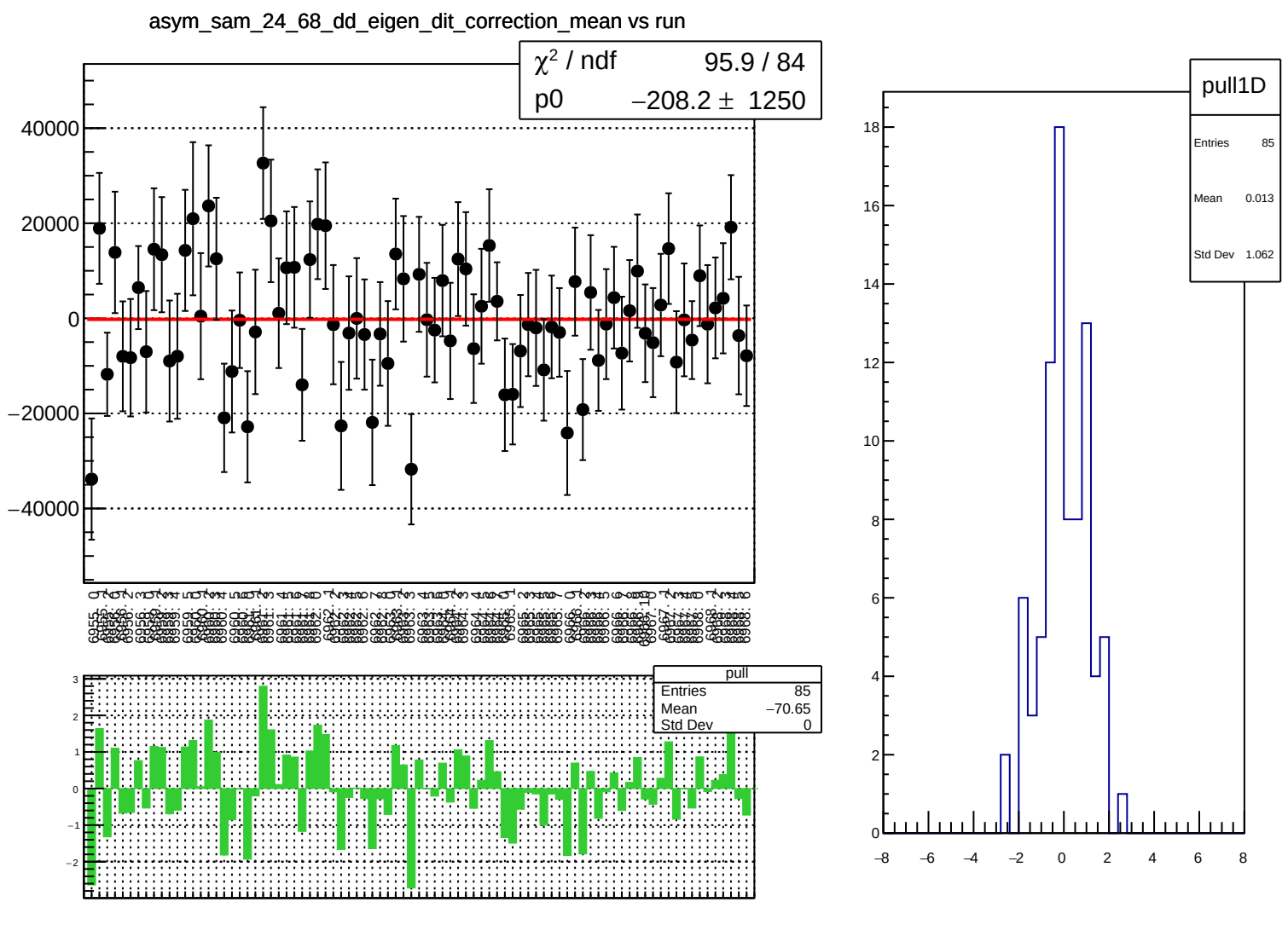

pull1D
Entries 85
Mean 0.013
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

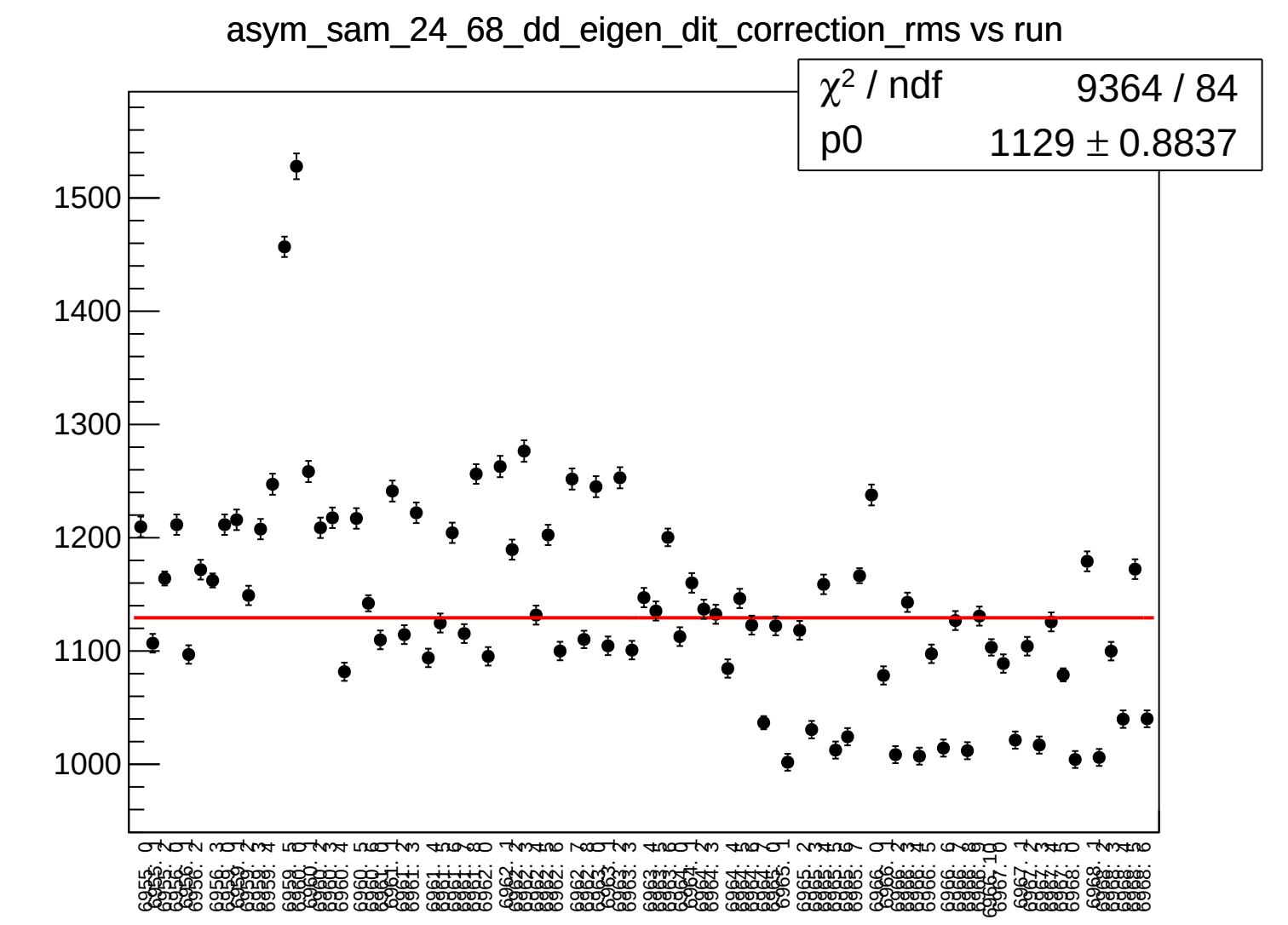

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 9364 / 84
p0 1129 ± 0.8837
1500
1400
1300
1200
1100
1000

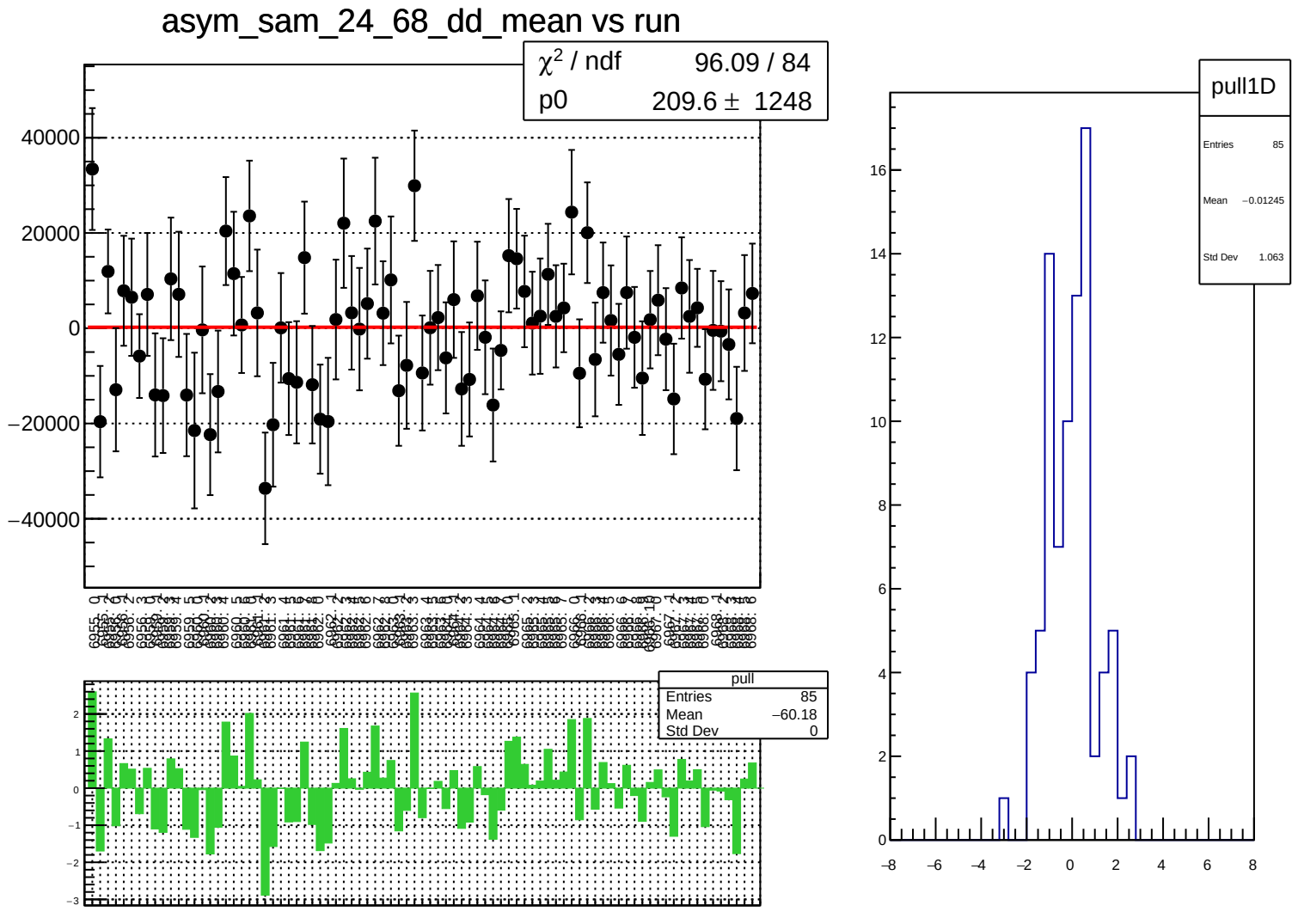

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 82.1 / 84
p0 9.05 ± 95.46
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −2026
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

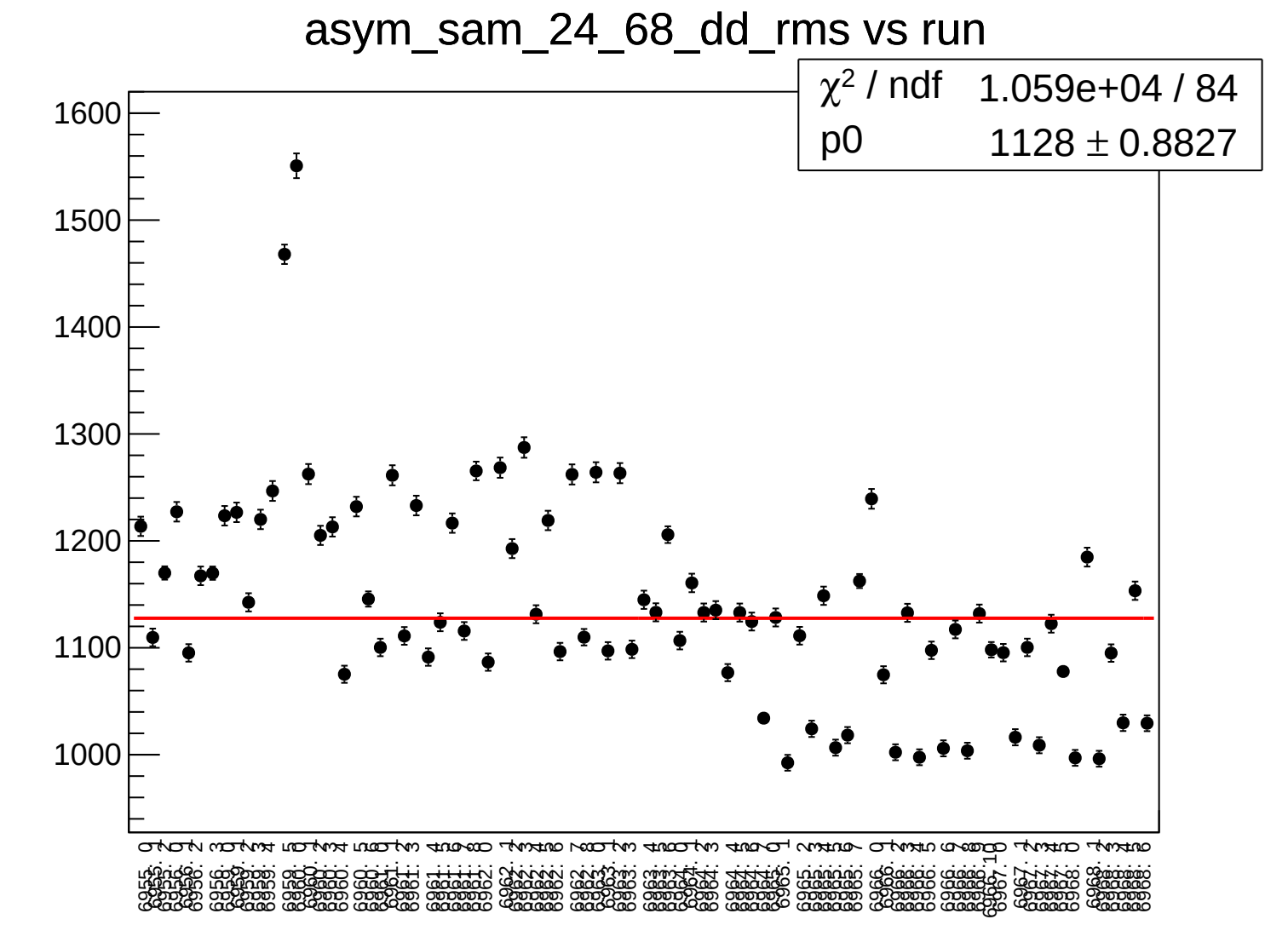

pull1D
Entries 85
Mean 0.001058
Std Dev 0.9828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

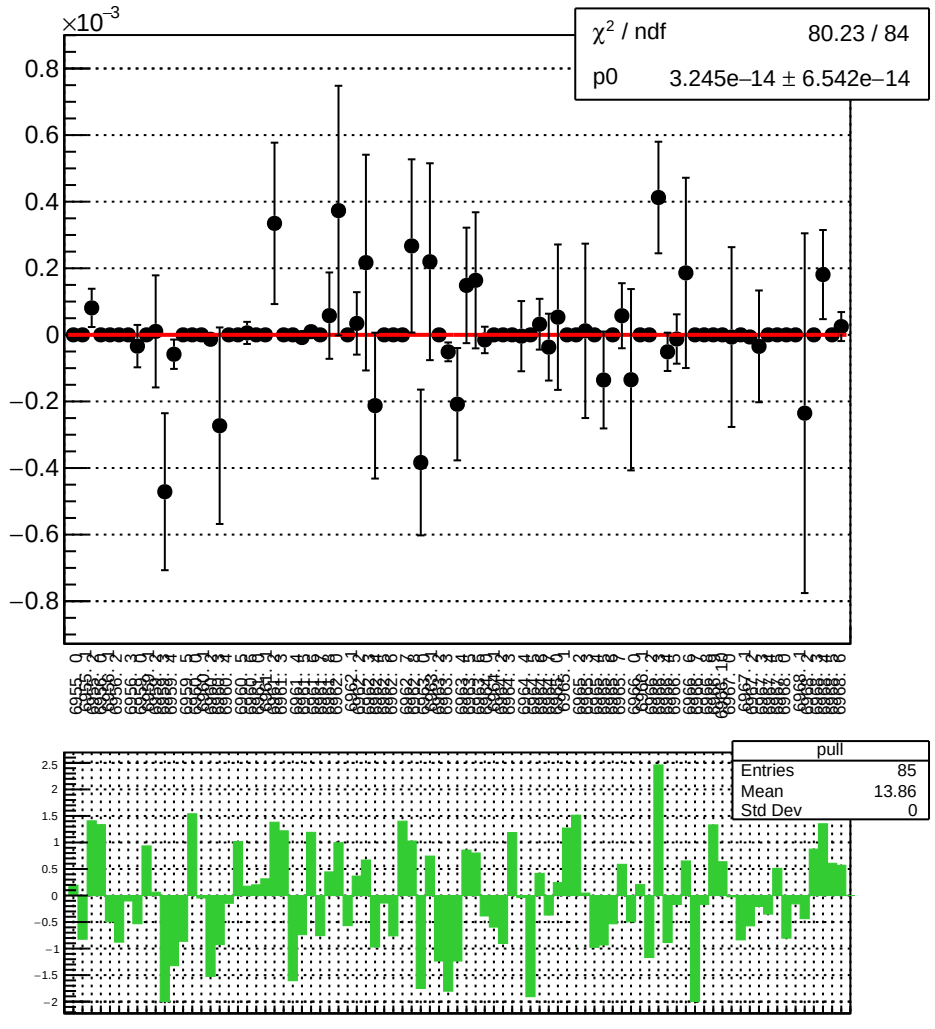

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 999.7 / 84
p0 86.48 ± 0.0675
94
92
90
88
86
84
82

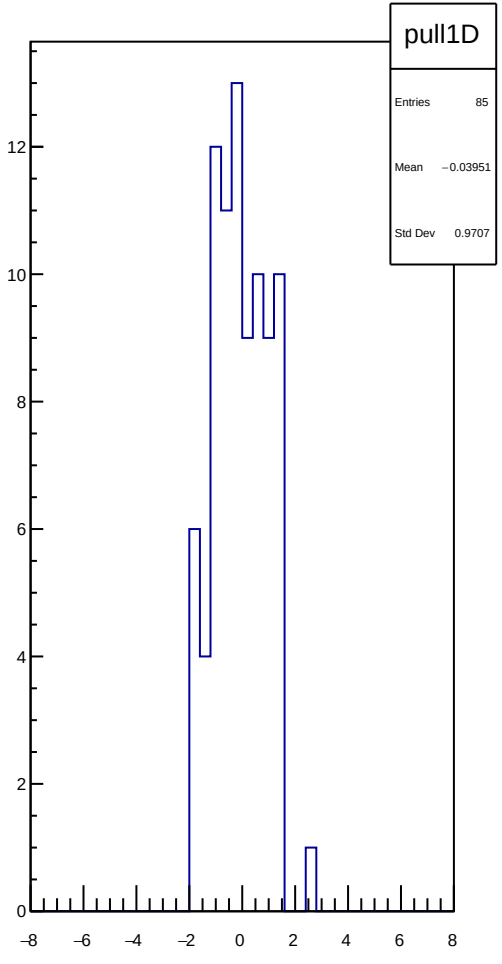

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.9 / 84
p0 −208.2 ± 1250
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −70.65
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.013
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

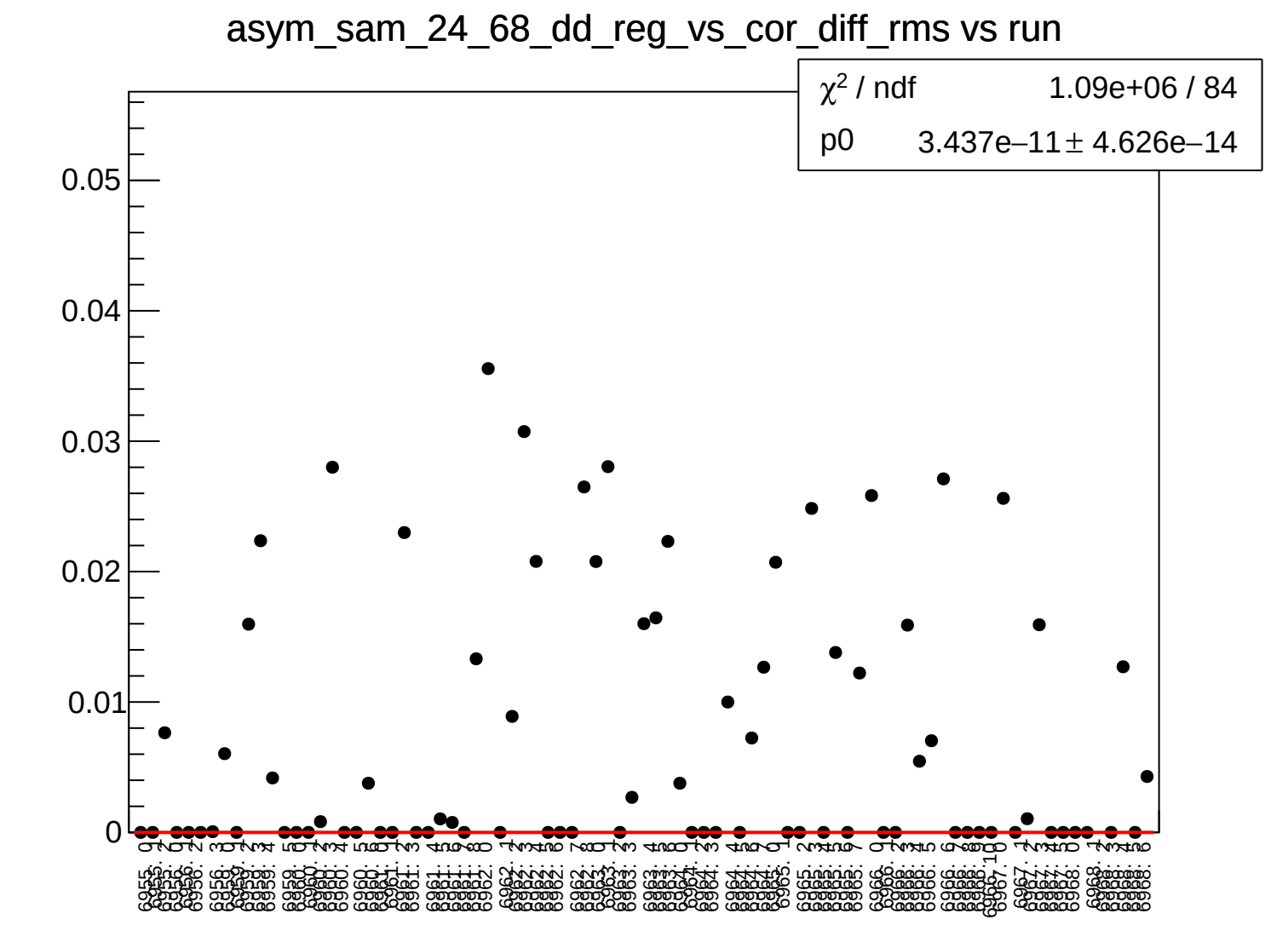

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 9364 / 84
p0 1129 ± 0.8837
1500
1400
1300
1200
1100
1000

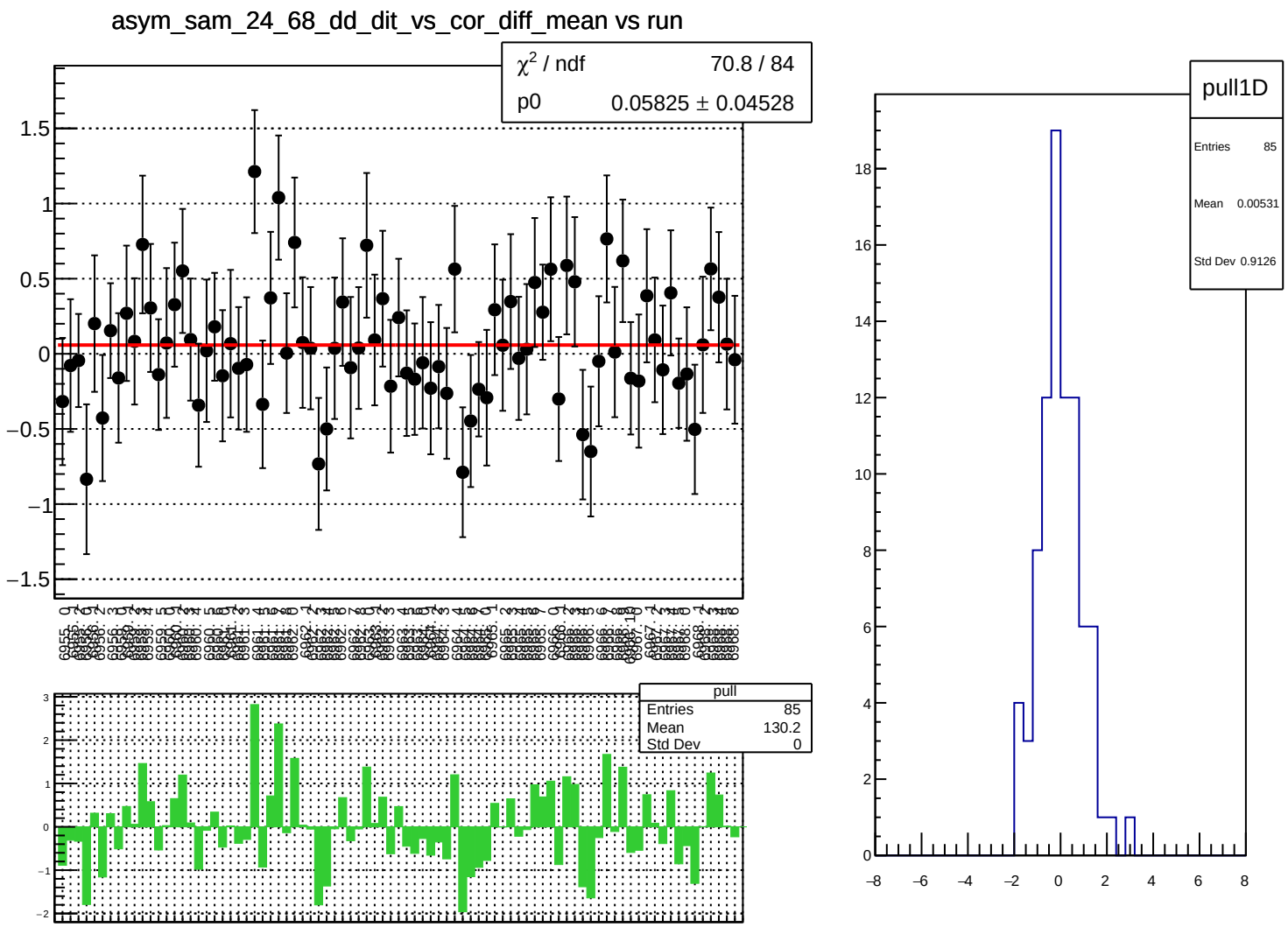

asym_sam_24_68_dd_mean vs run
χ² / ndf 96.09 / 84
p0 209.6 ± 1248
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −60.18
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.01245
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

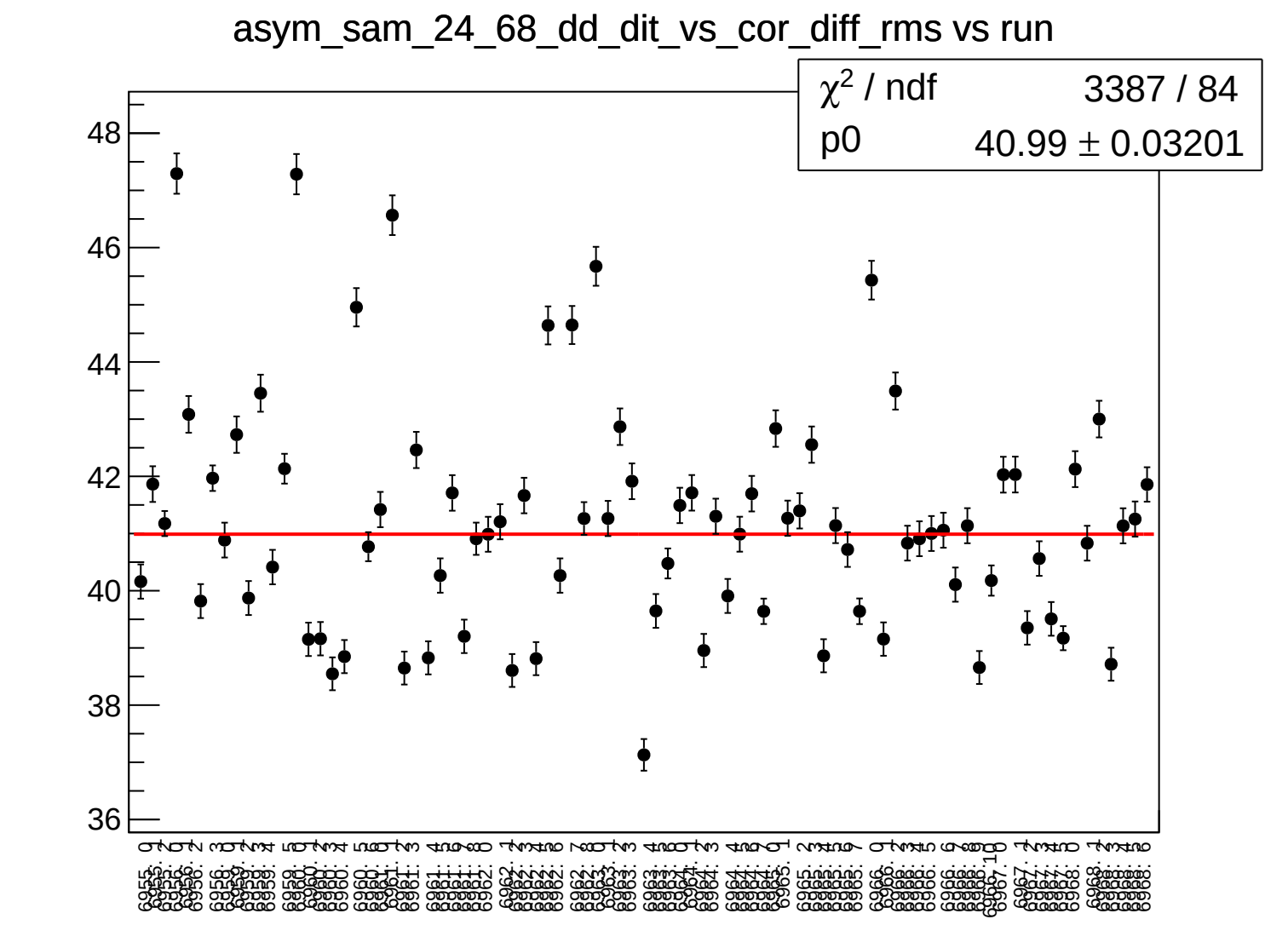

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.059e+04 / 84
p0 1128 ± 0.8827
1600
1500
1400
1300
1200
1100
1000

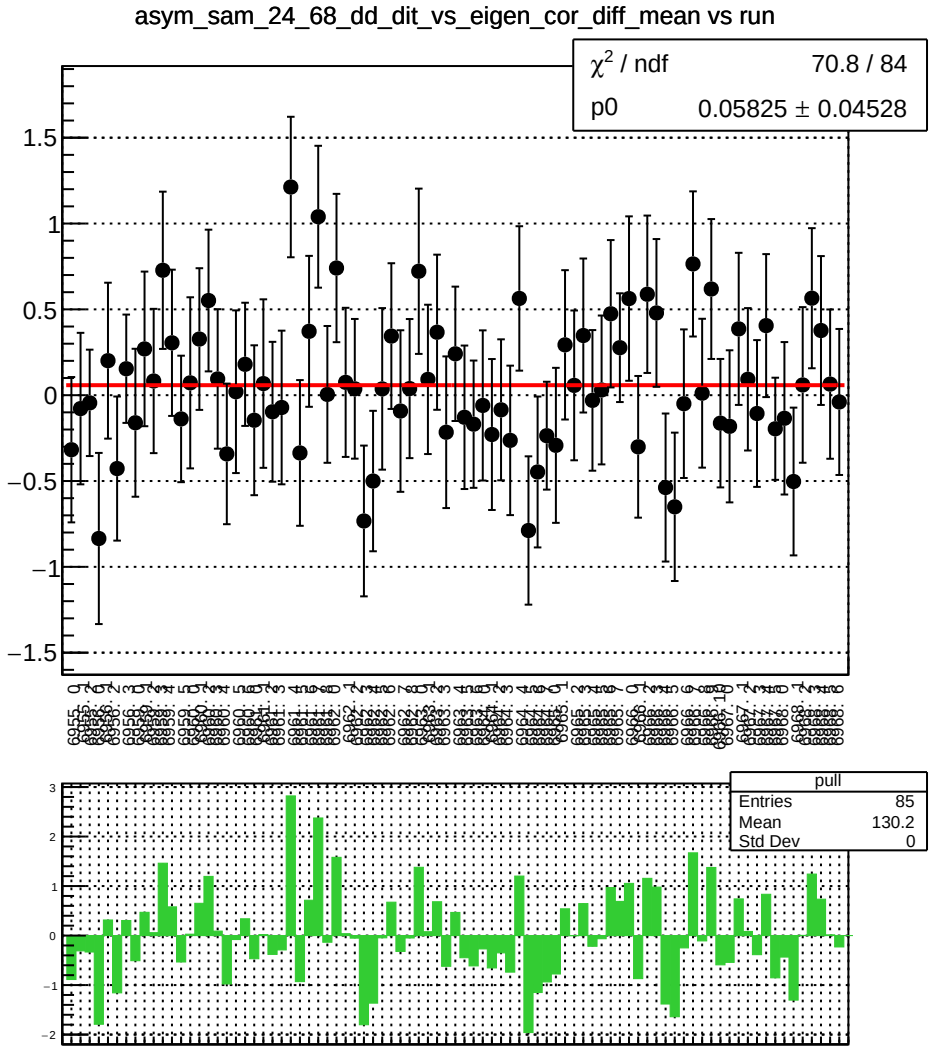

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 80.23 / 84
p0 3.245e−14 ± 6.542e−14
pull
Entries 85
Mean 13.86
Std Dev 0

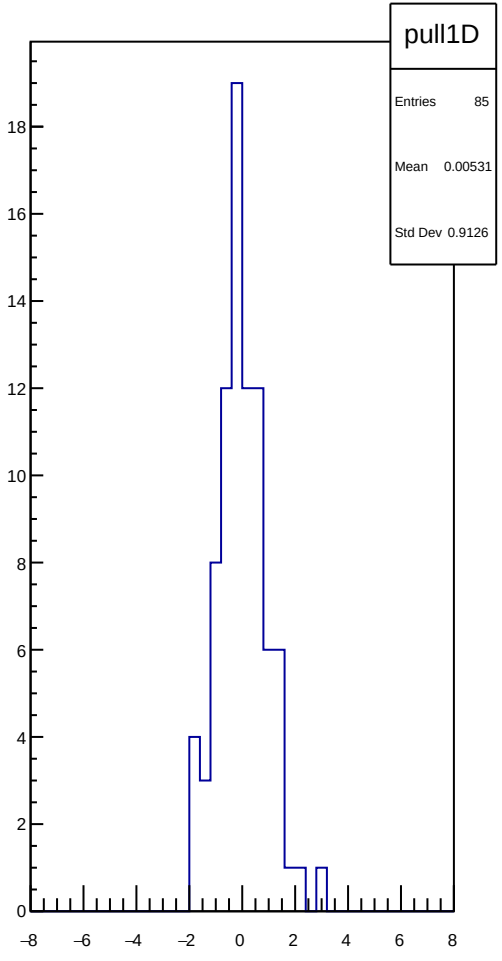

pull1D
Entries 85
Mean −0.03951
Std Dev 0.9707

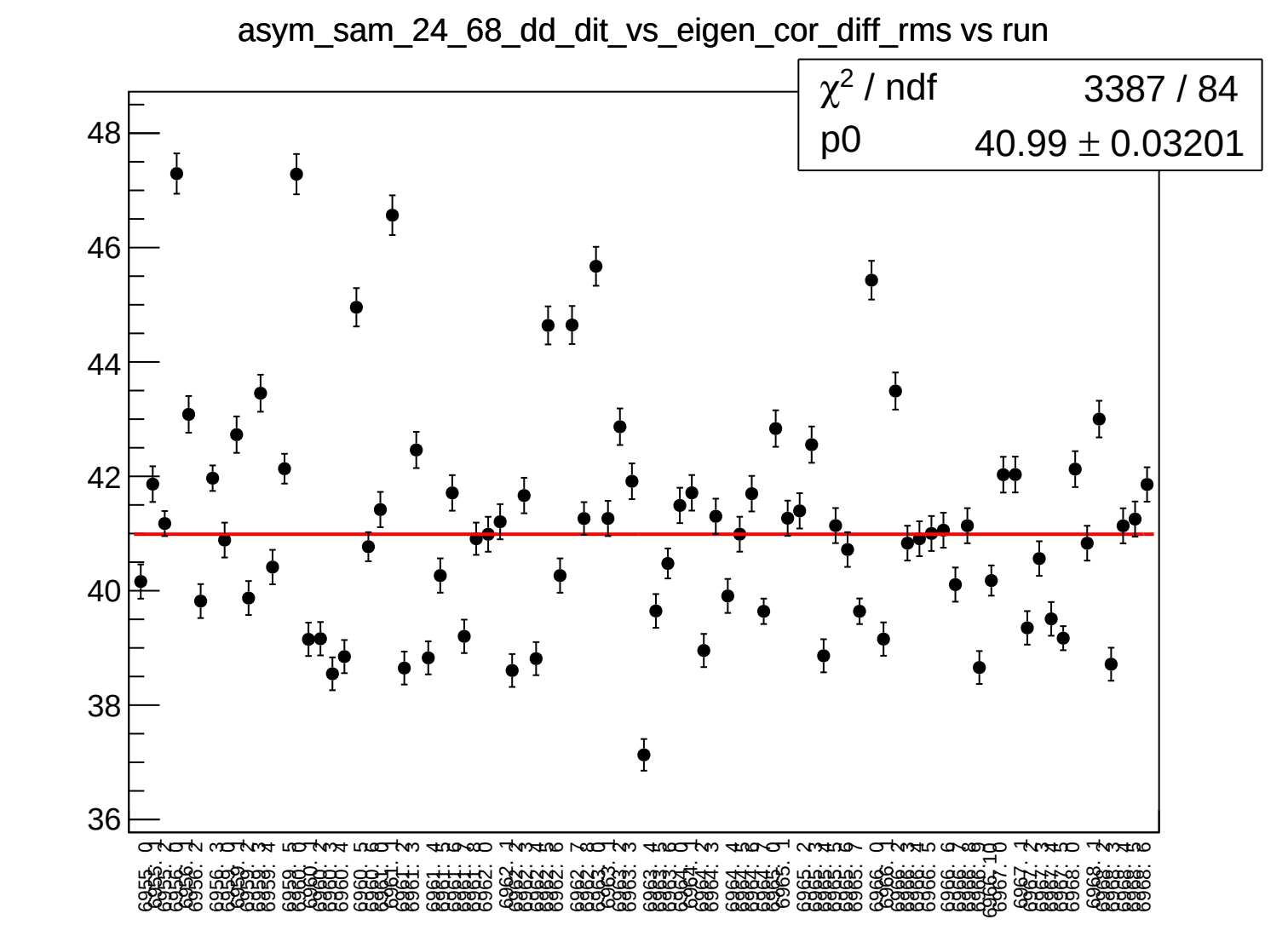

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 84
p0 3.437e−11 ± 4.626e−14
0.05
0.04
0.03
0.02
0.01
0

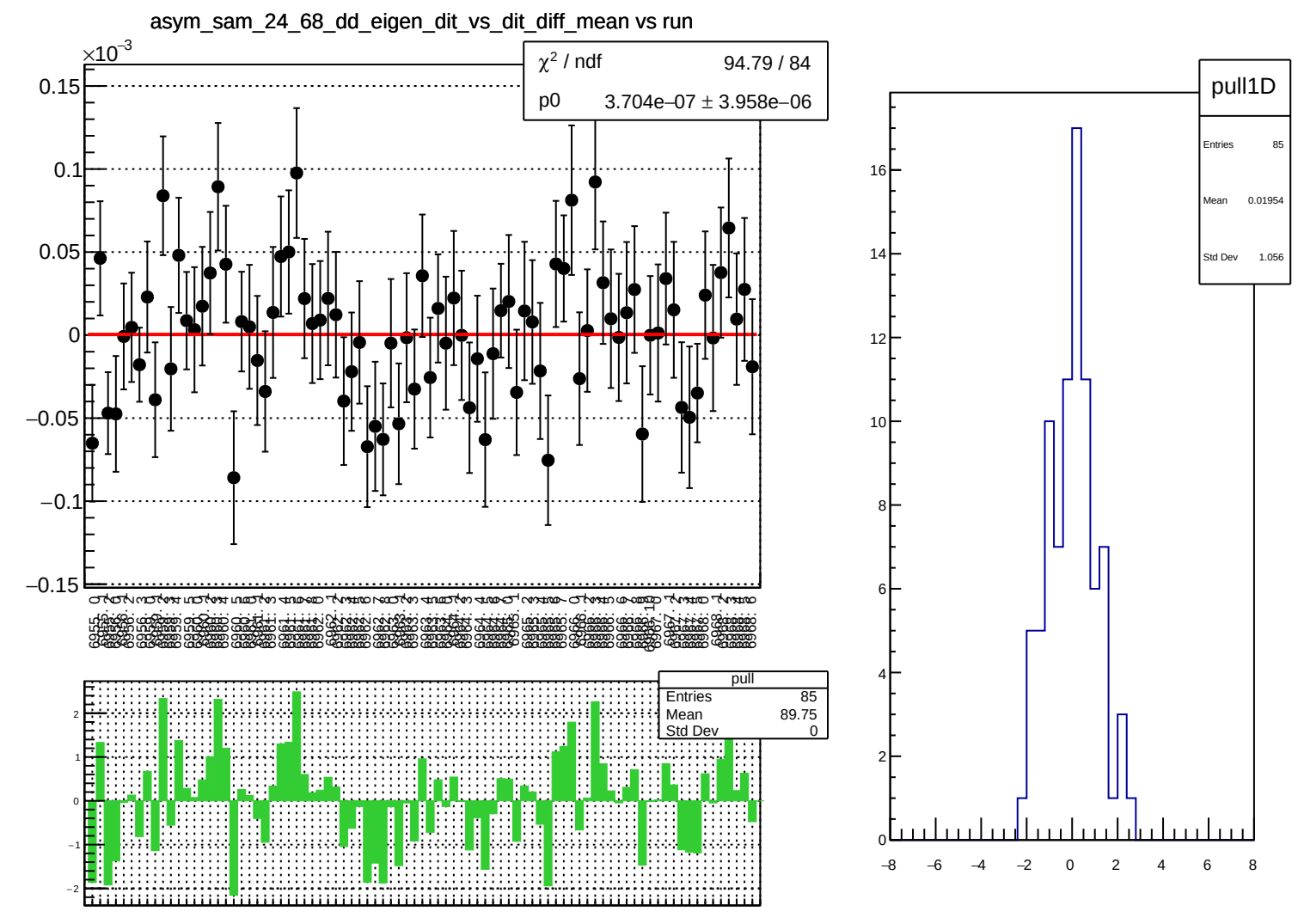

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.8 / 84
p0 0.05825 ± 0.04528
pull
Entries 85
Mean 130.2
Std Dev 0
pull1D
Entries 85
Mean 0.00531
Std Dev 0.9126

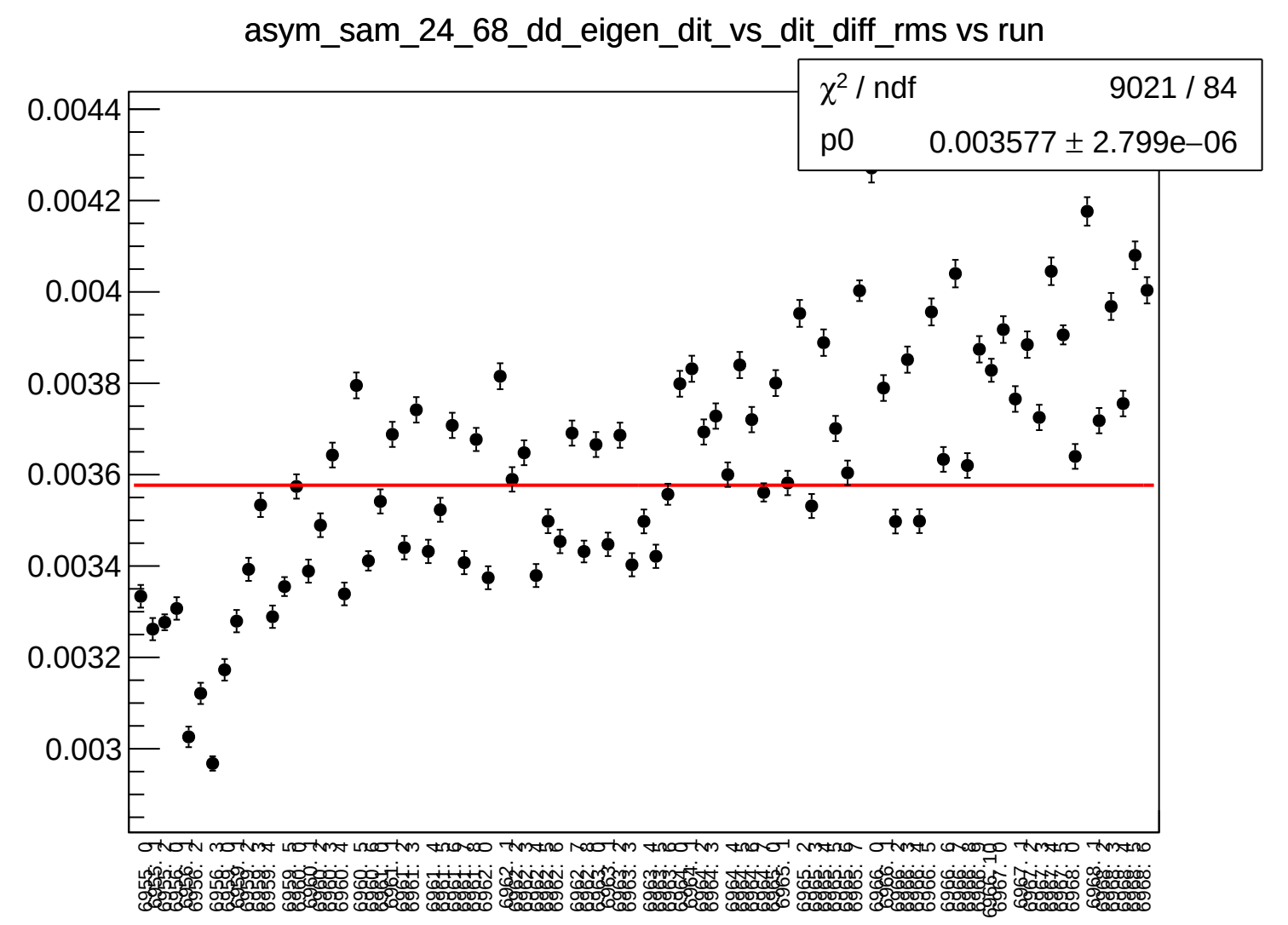

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3387 / 84
p0 40.99 ± 0.03201
48
46
44
42
40
38
36

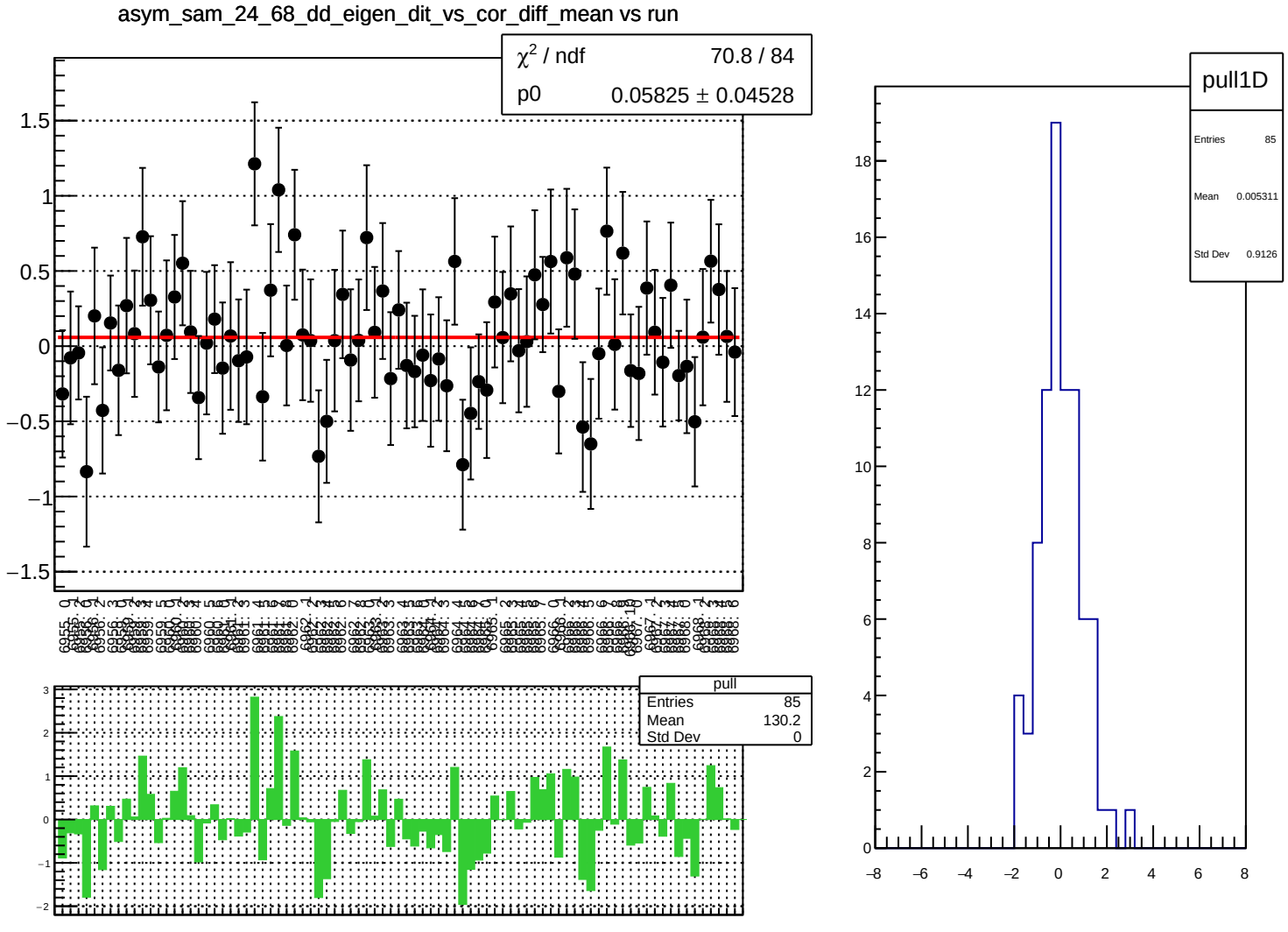

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.8 / 84
p0 0.05825 ± 0.04528
pull
Entries 85
Mean 130.2
Std Dev 0

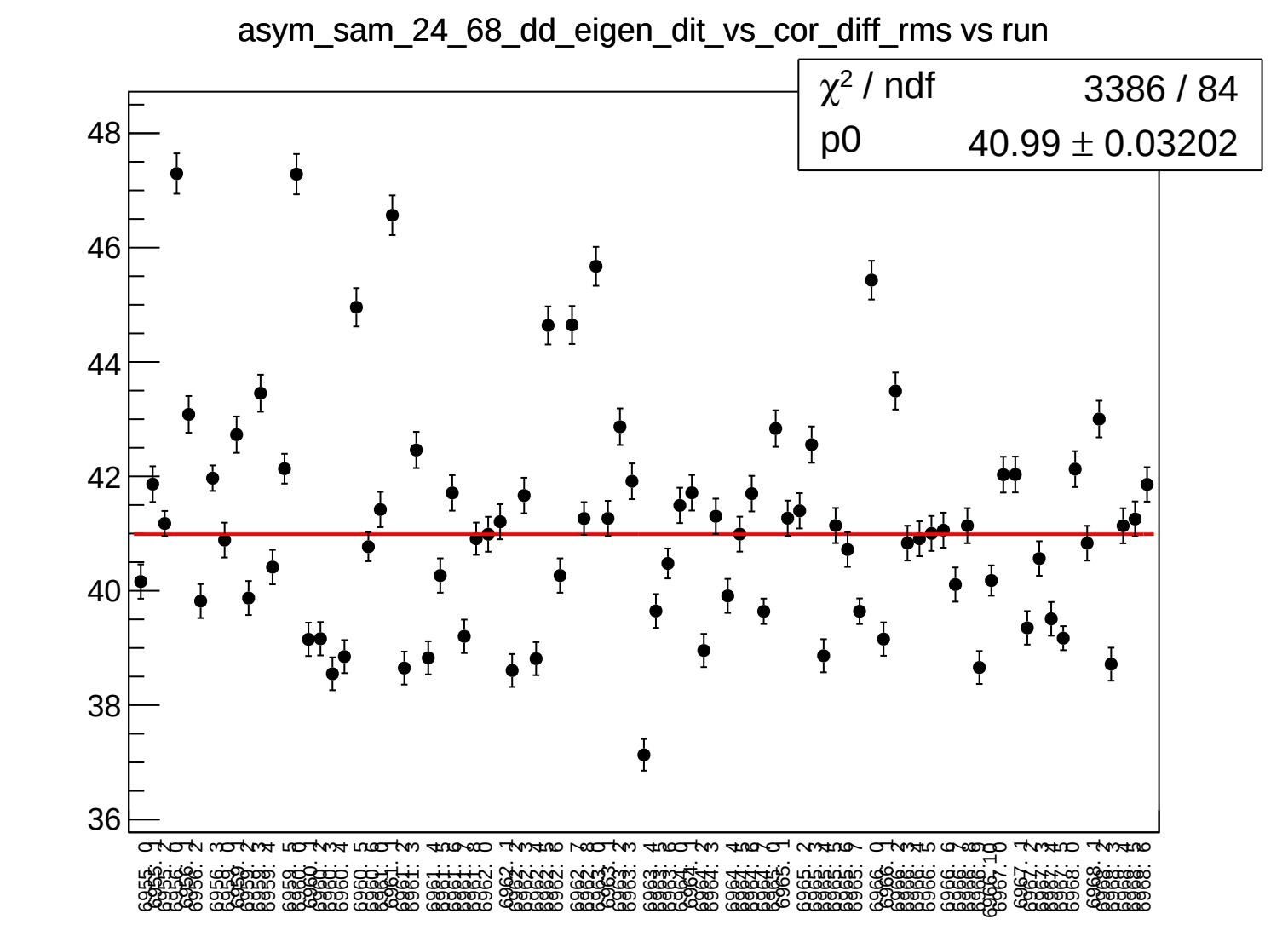

pull1D
Entries 85
Mean 0.00531
Std Dev 0.9126

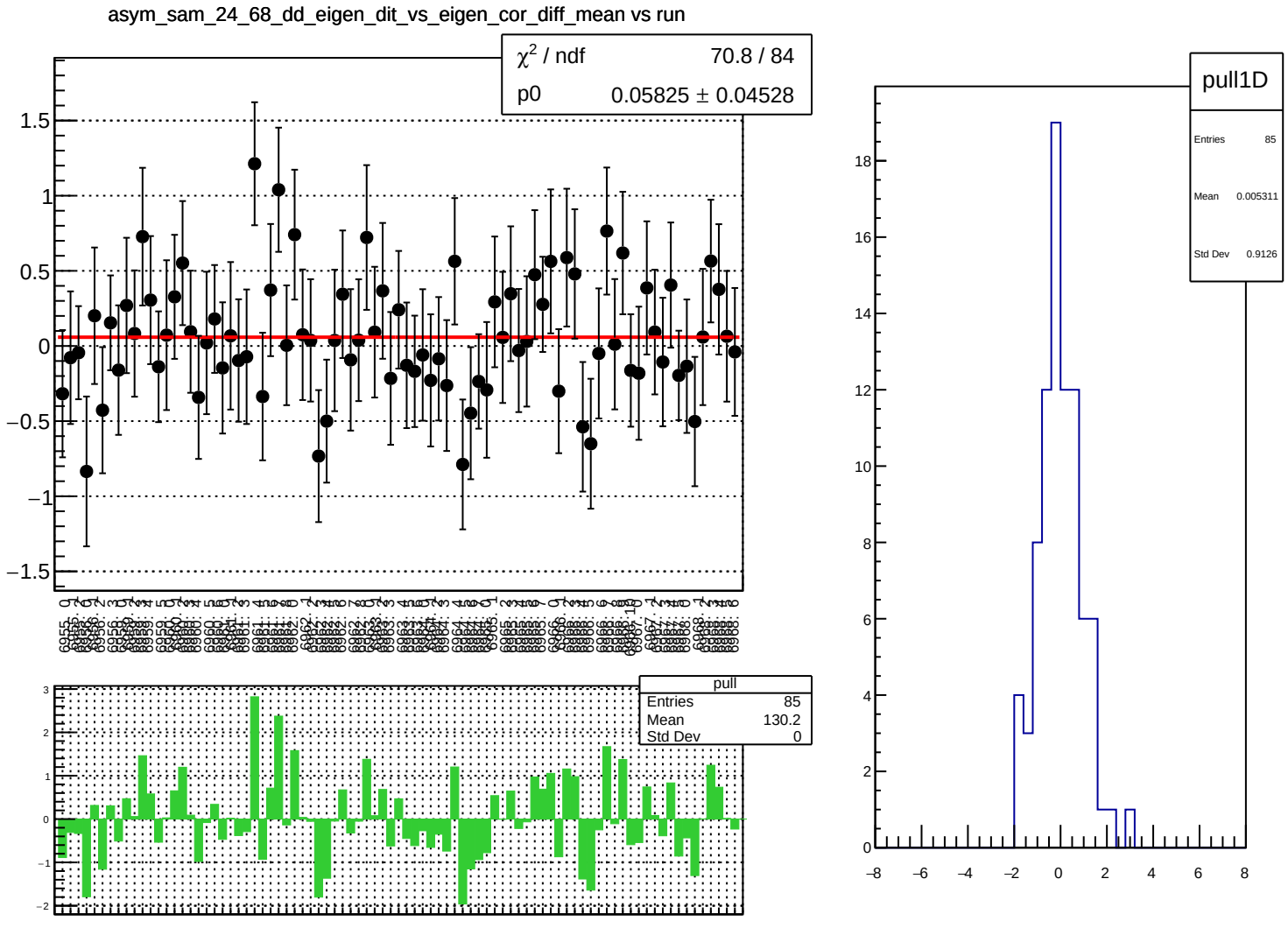

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3387 / 84
p0 40.99 ± 0.03201
48
46
44
42
40
38
36

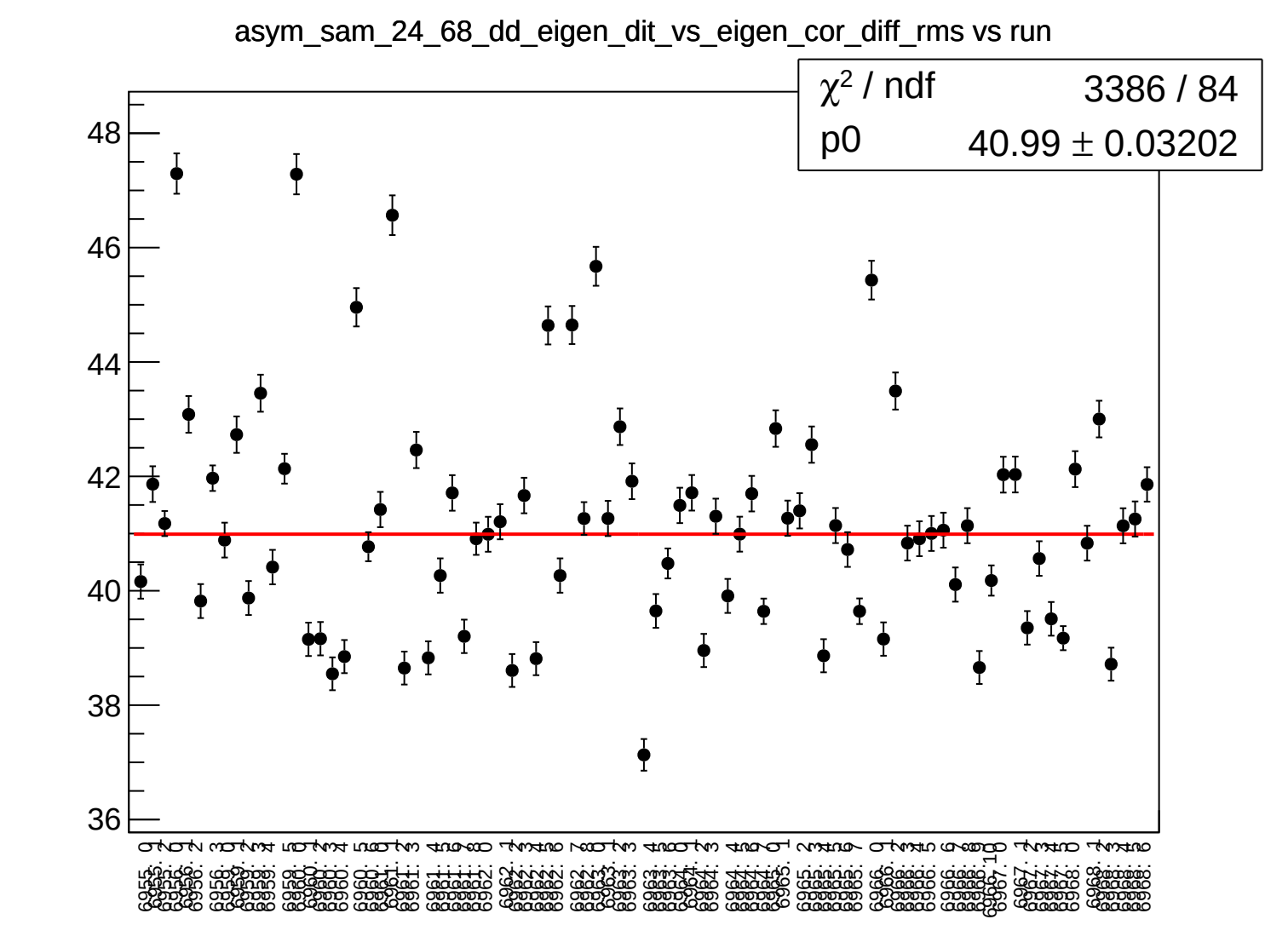

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.79 / 84
p0 3.704e−07 ± 3.958e−06
pull
Entries 85
Mean 89.75
Std Dev 0
pull1D
Entries 85
Mean 0.01954
Std Dev 1.056

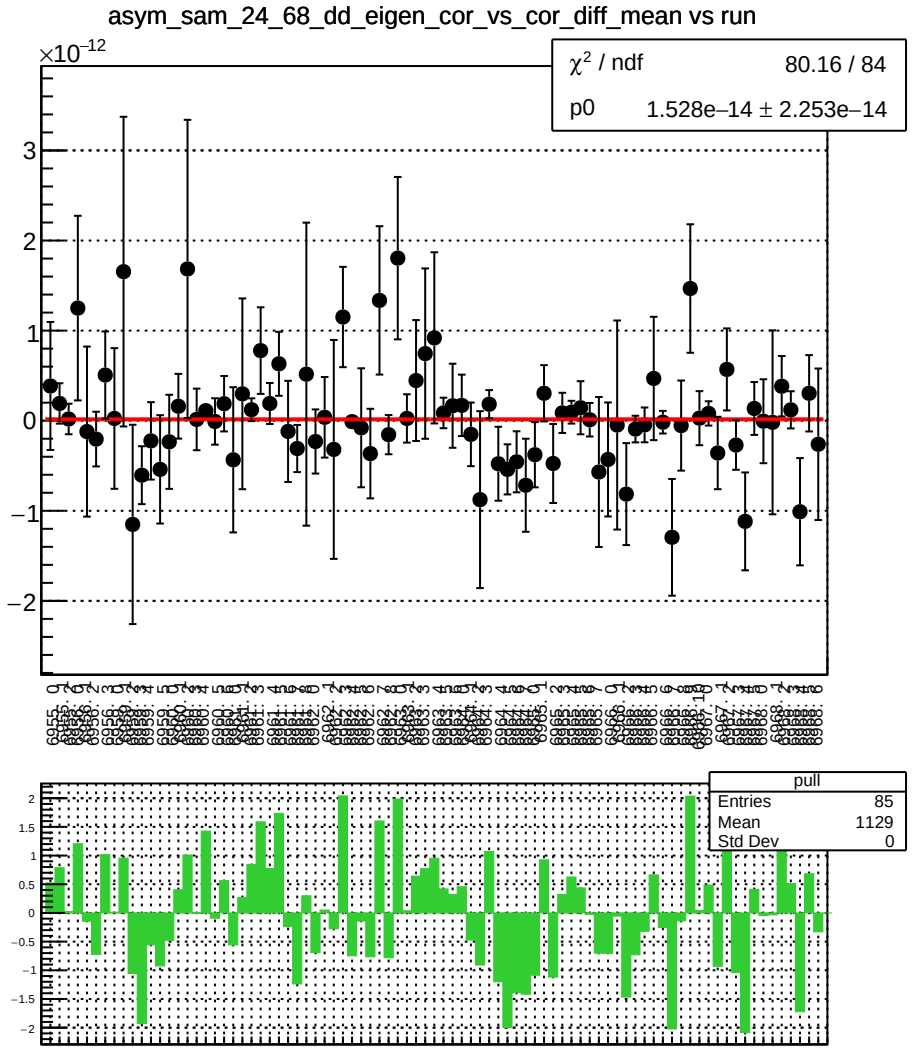

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9021 / 84
p0 0.003577 ± 2.799e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

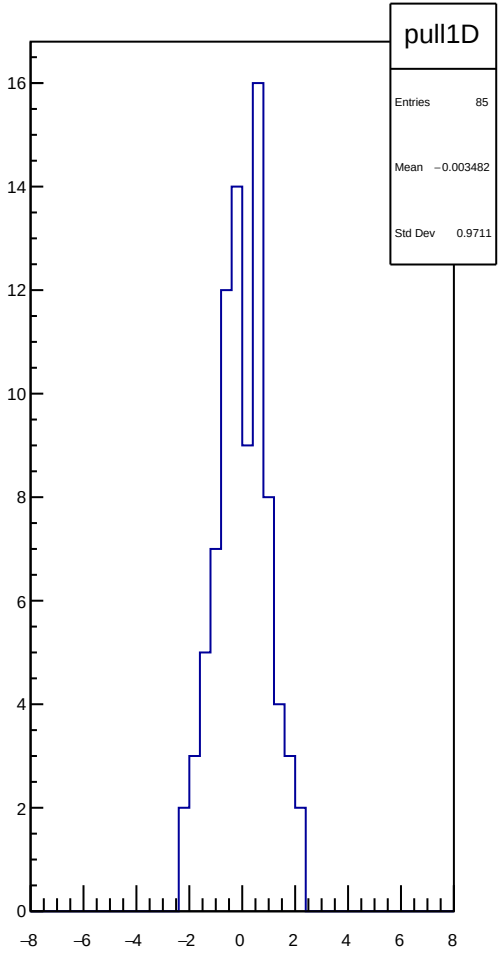

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.8 / 84
p0 0.05825 ± 0.04528
pull
Entries 85
Mean 130.2
Std Dev 0
pull1D
Entries 85
Mean 0.005311
Std Dev 0.9126

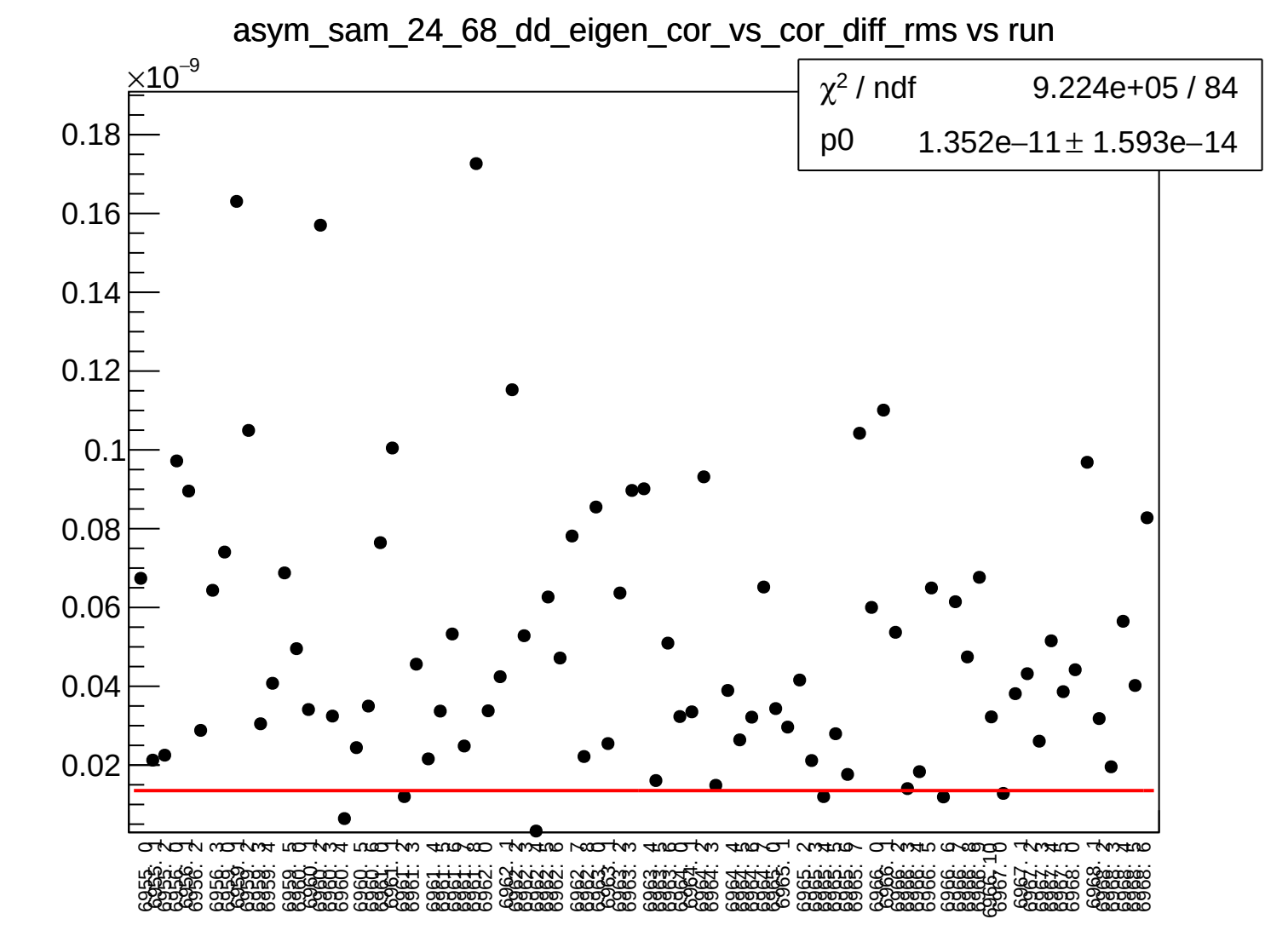

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3386 / 84
p0 40.99 ± 0.03202
48
46
44
42
40
38
36

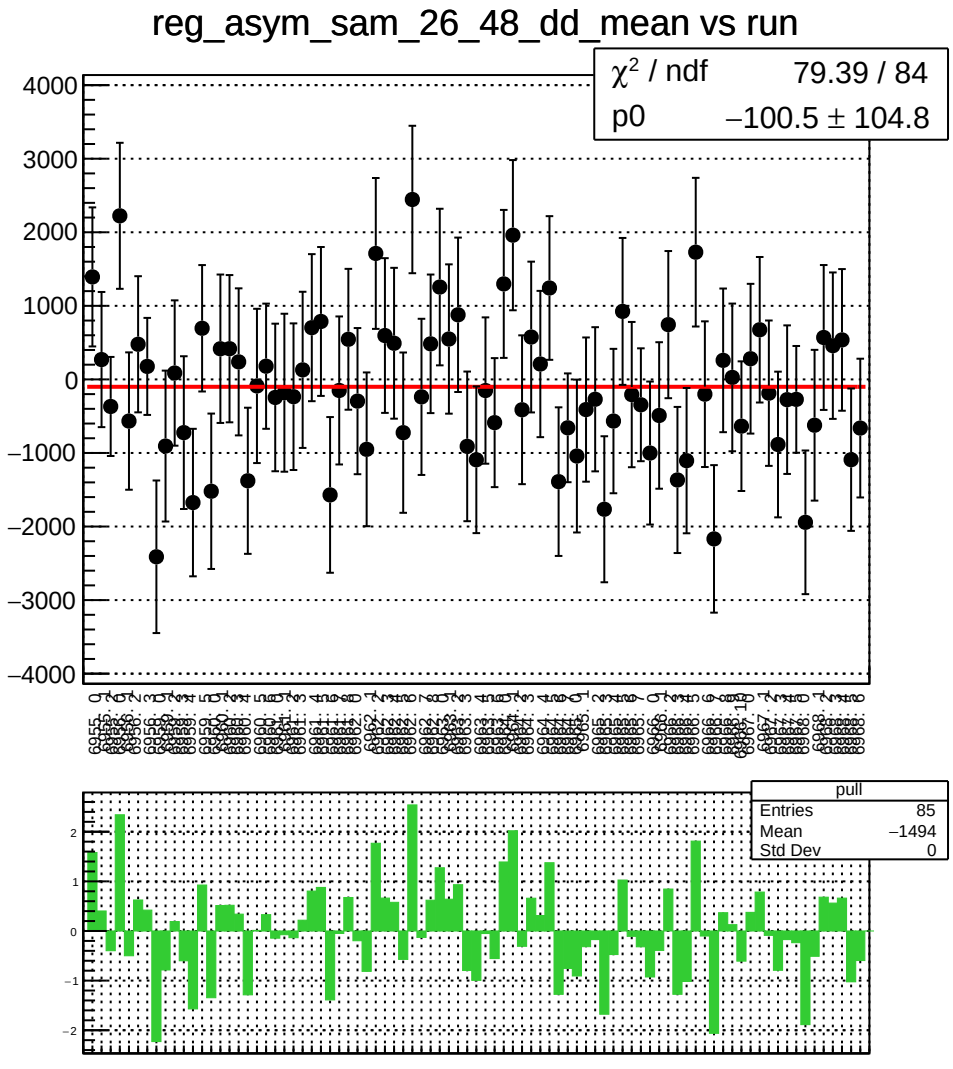

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.8 / 84
p0 0.05825 ± 0.04528
pull
Entries 85
Mean 130.2
Std Dev 0
pull1D
Entries 85
Mean 0.005311
Std Dev 0.9126

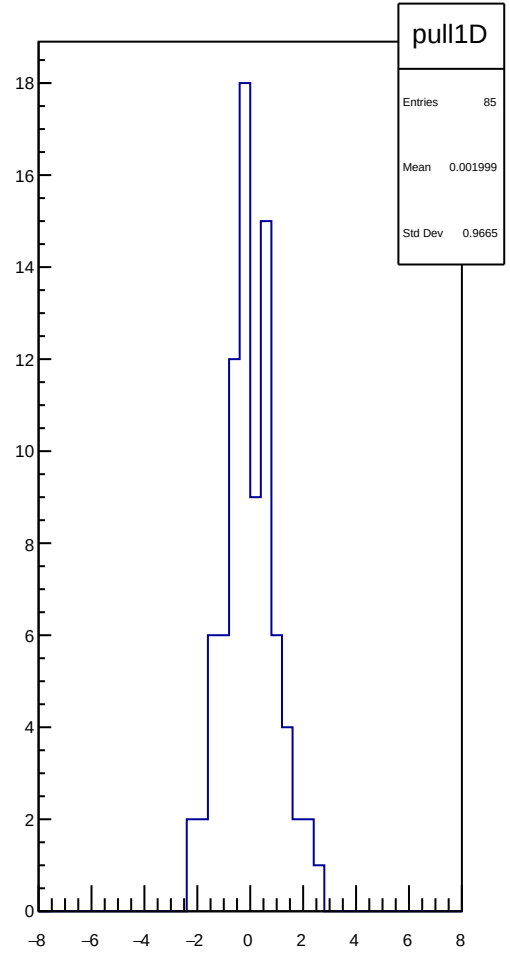

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3386 / 84
p0 40.99 ± 0.03202
48
46
44
42
40
38
36

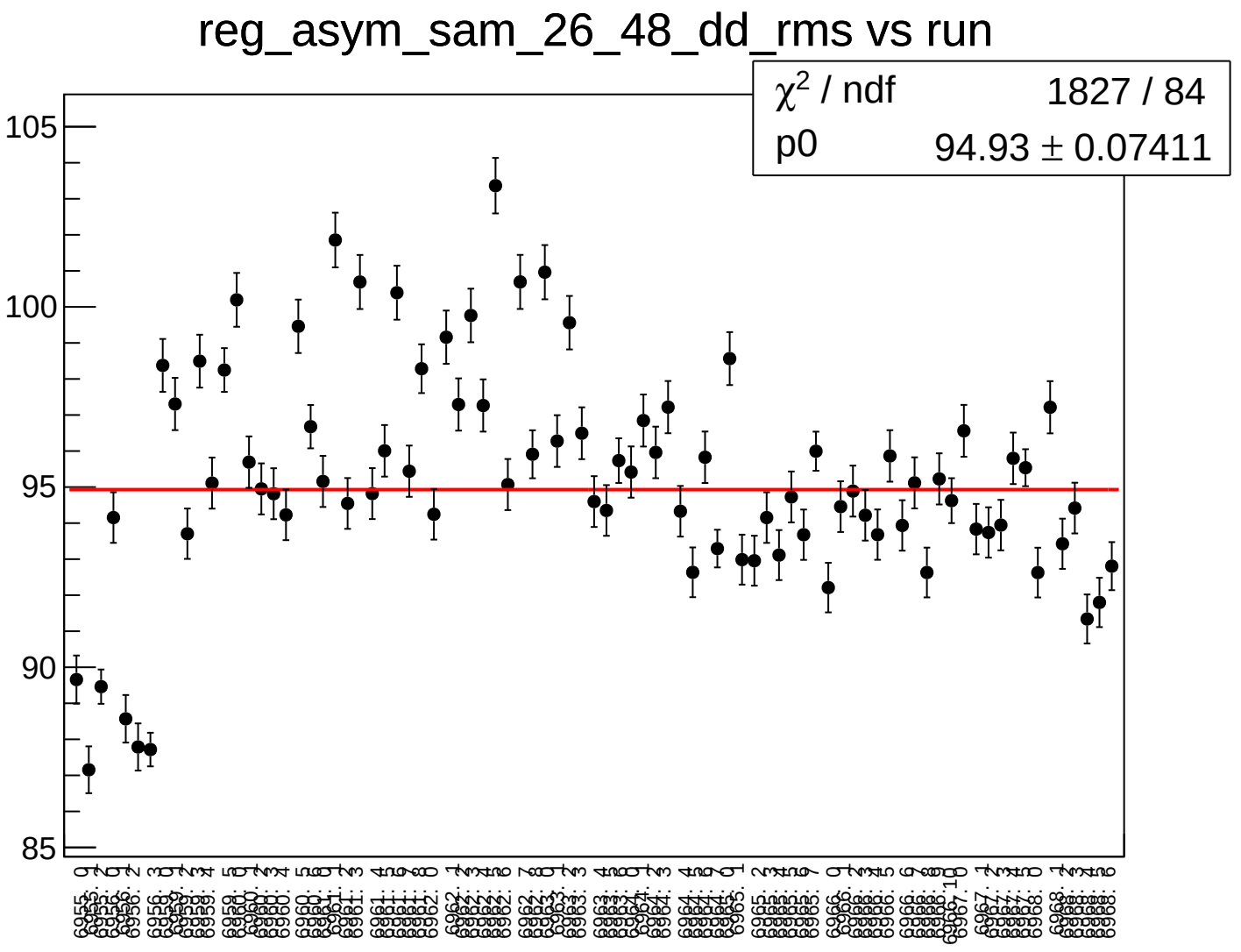

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.16 / 84
p0 1.528e−14 ± 2.253e−14
pull
Entries 85
Mean 1129
Std Dev 0

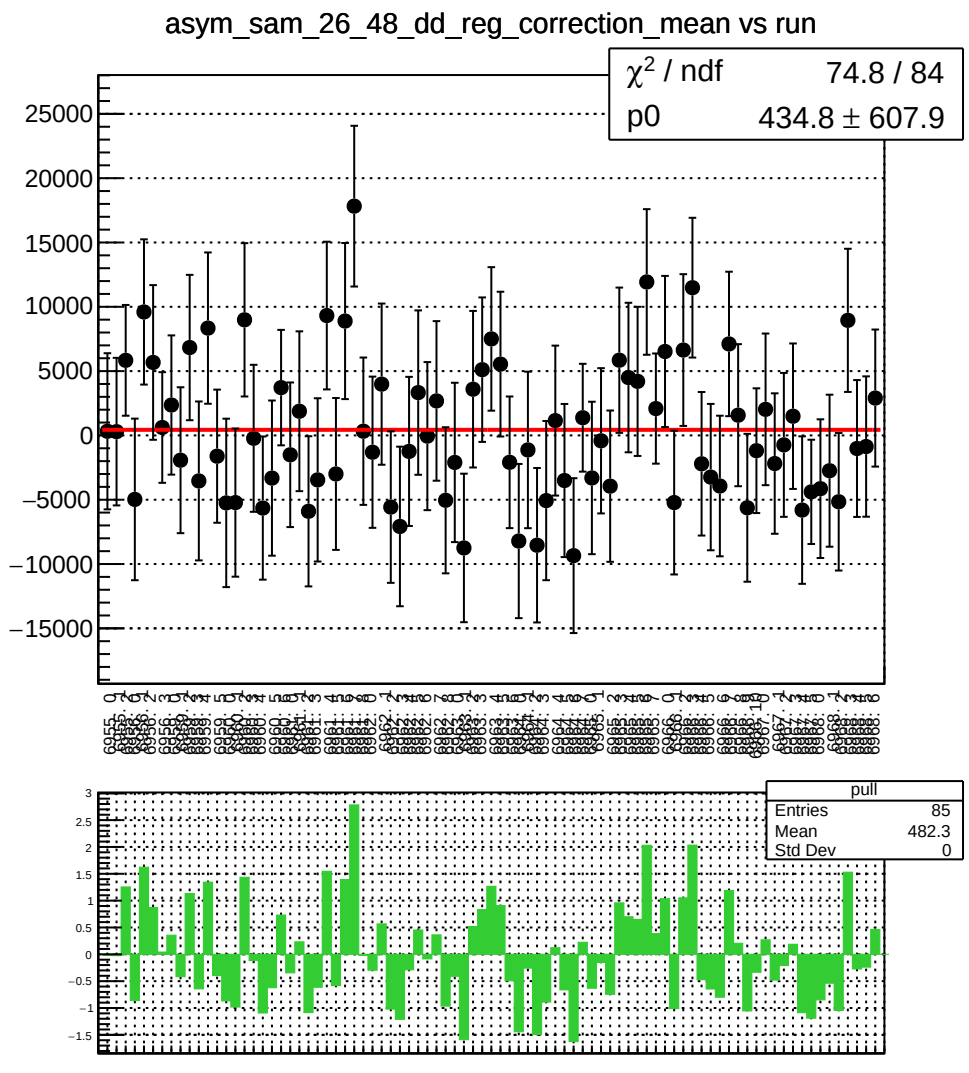

pull1D
Entries 85
Mean −0.003482
Std Dev 0.9711

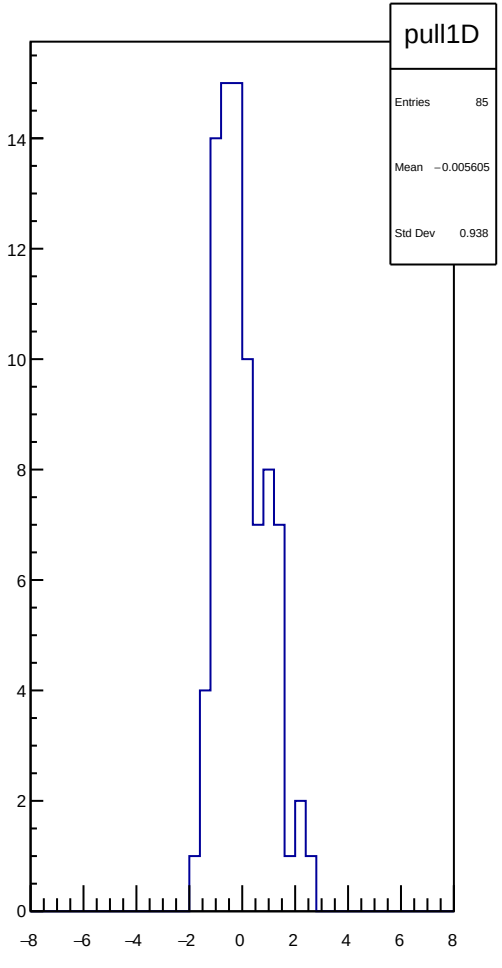

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.224e+05 / 84
p0 1.352e−11 ± 1.593e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

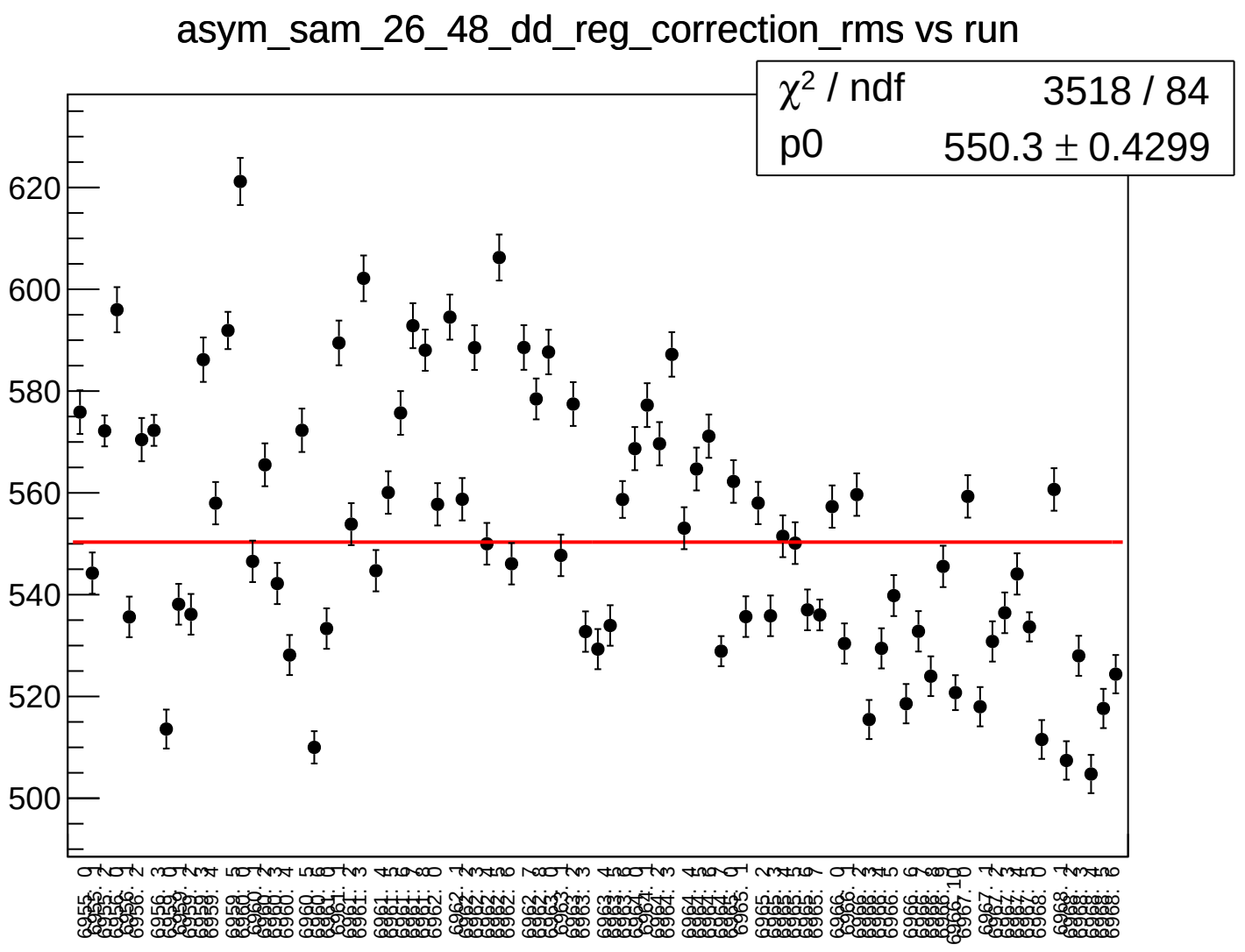

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 79.39 / 84
p0 −100.5 ± 104.8
pull
Entries 85
Mean −1494
Std Dev 0

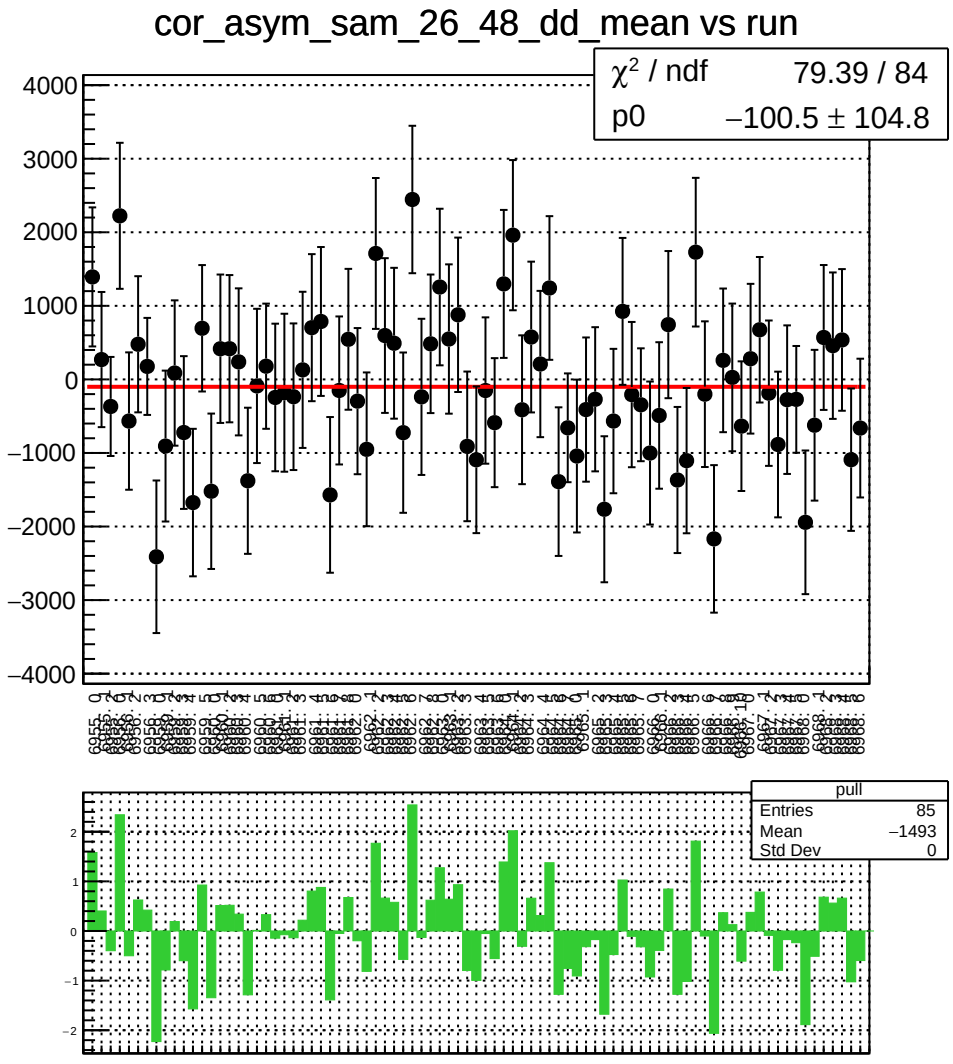

pull1D
Entries 85
Mean 0.001999
Std Dev 0.9665

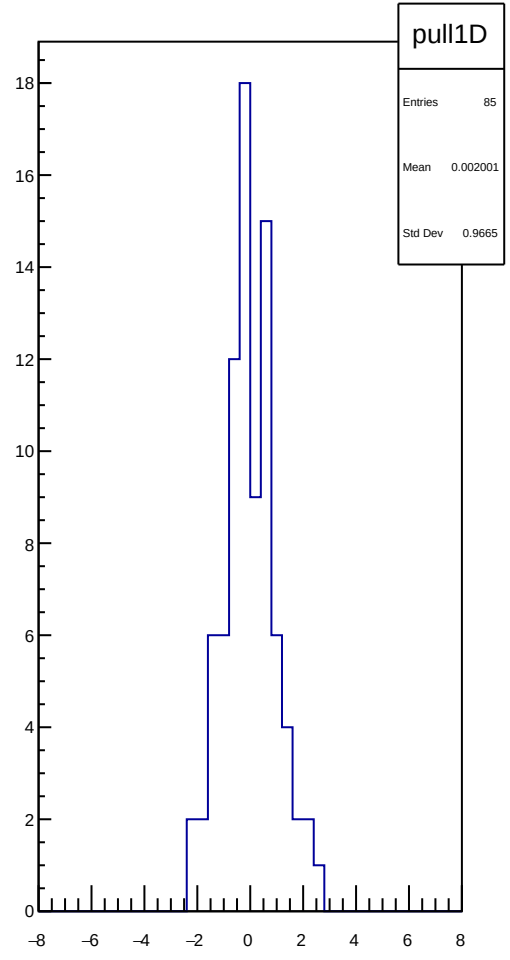

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1827 / 84
p0 94.93 ± 0.07411
105
100
95
90
85

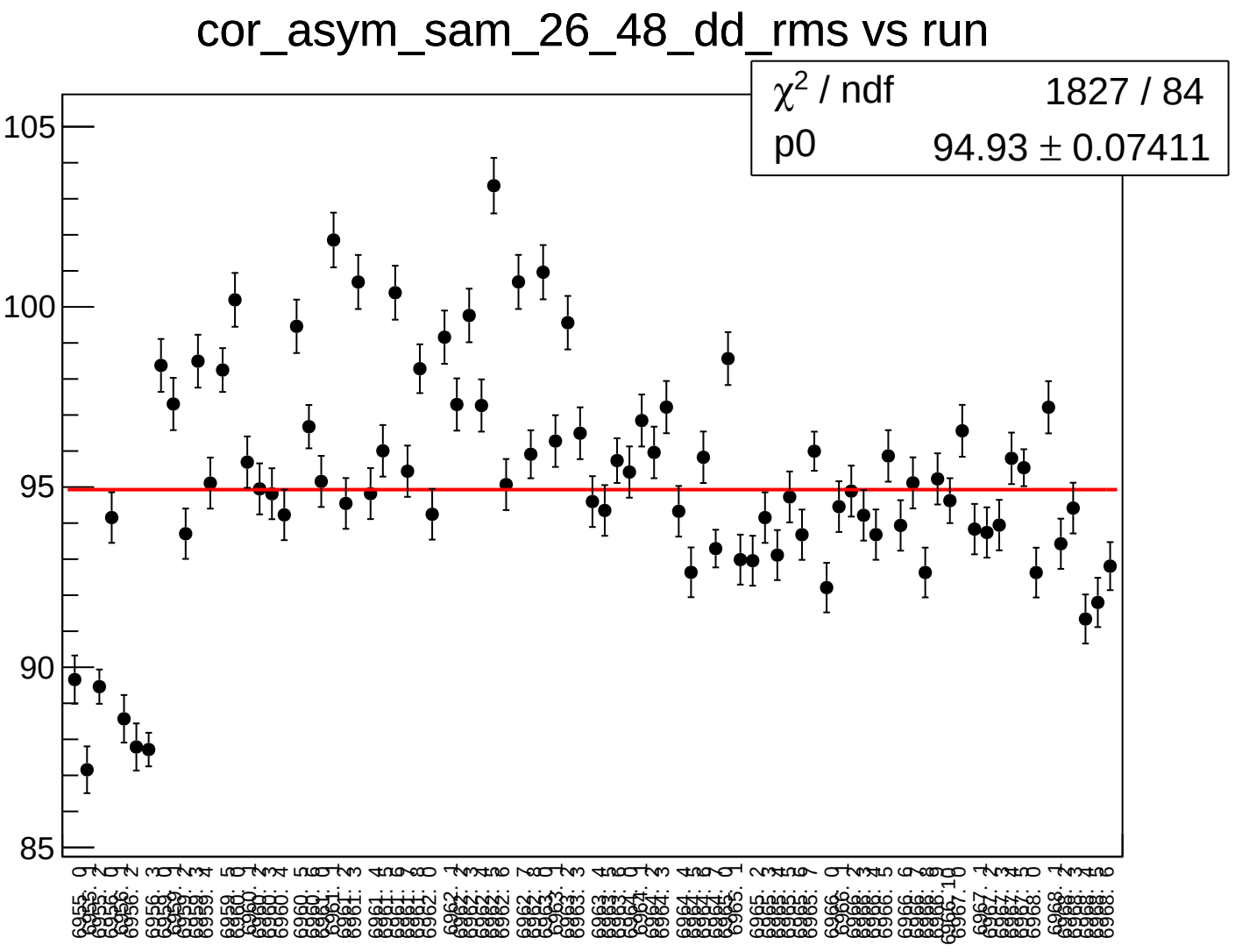

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 74.8 / 84
p0 434.8 ± 607.9
pull
Entries 85
Mean 482.3
Std Dev 0

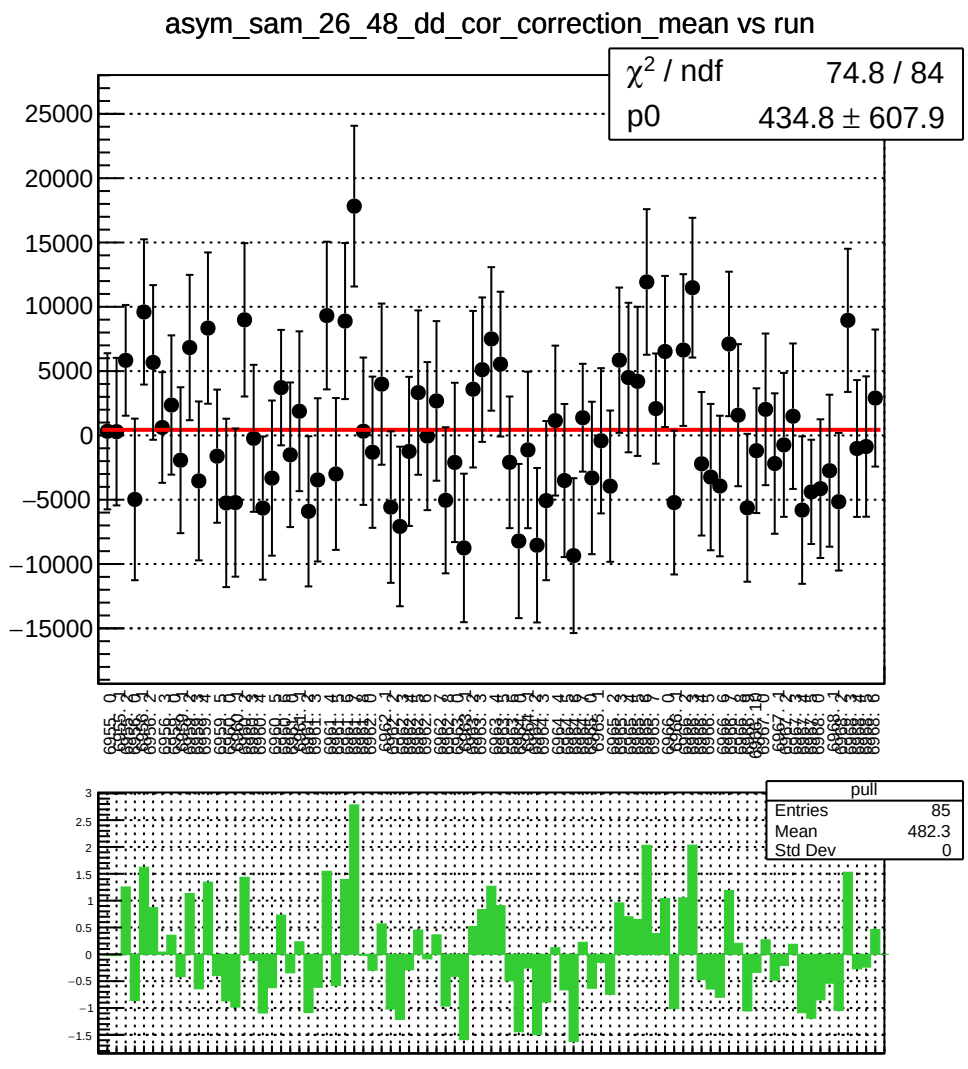

pull1D
Entries 85
Mean −0.005605
Std Dev 0.938

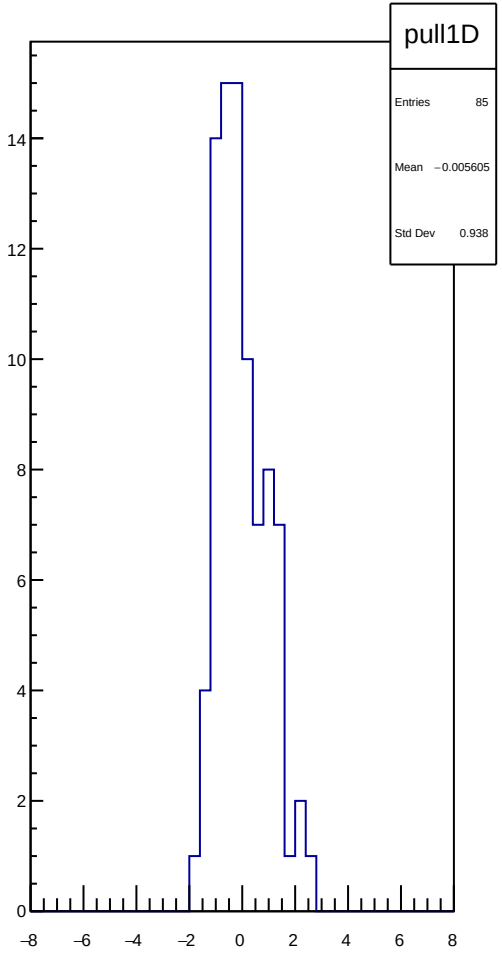

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 3518 / 84
p0 550.3 ± 0.4299
620
600
580
560
540
520
500

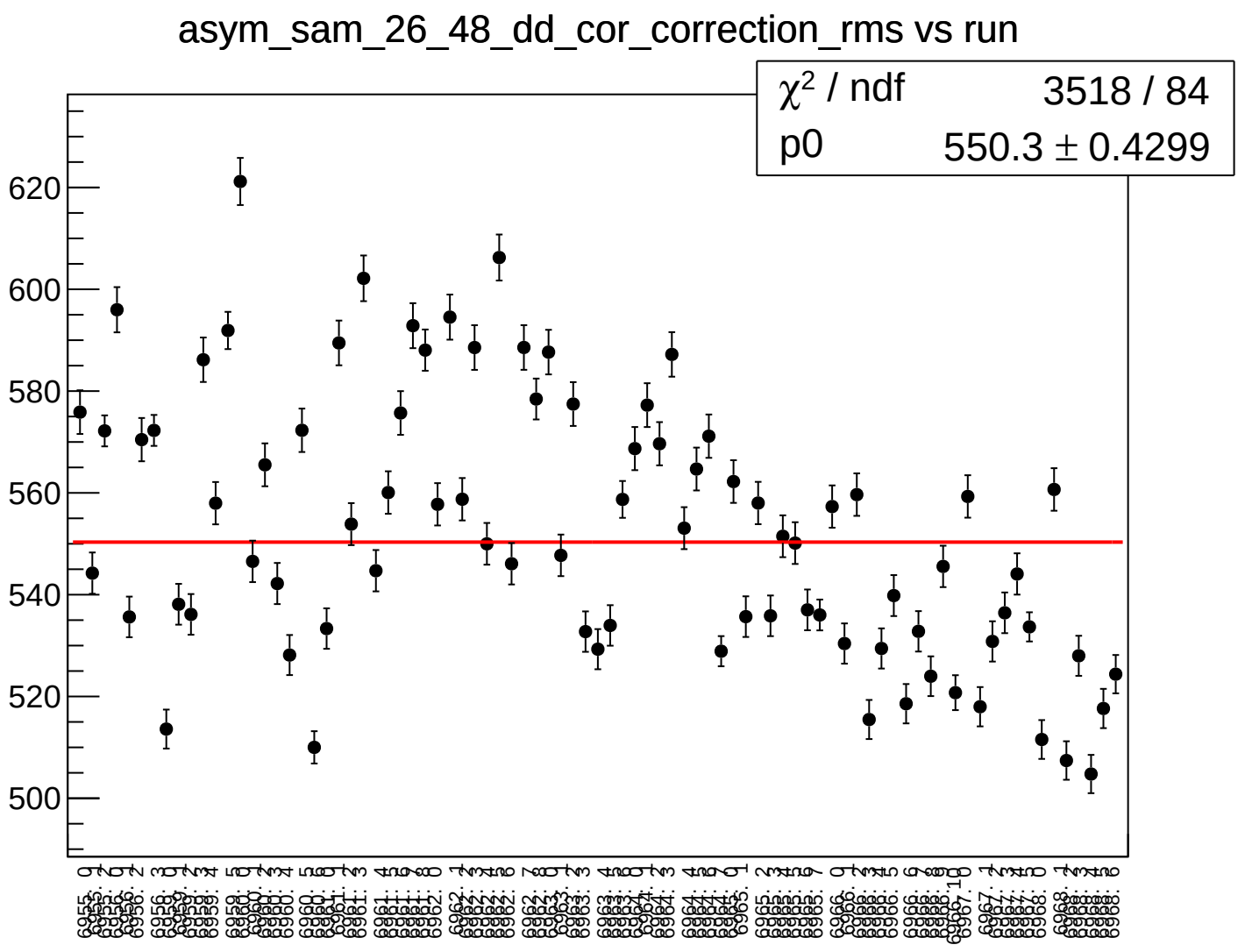

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 79.39 / 84
p0 −100.5 ± 104.8
pull
Entries 85
Mean −1493
Std Dev 0

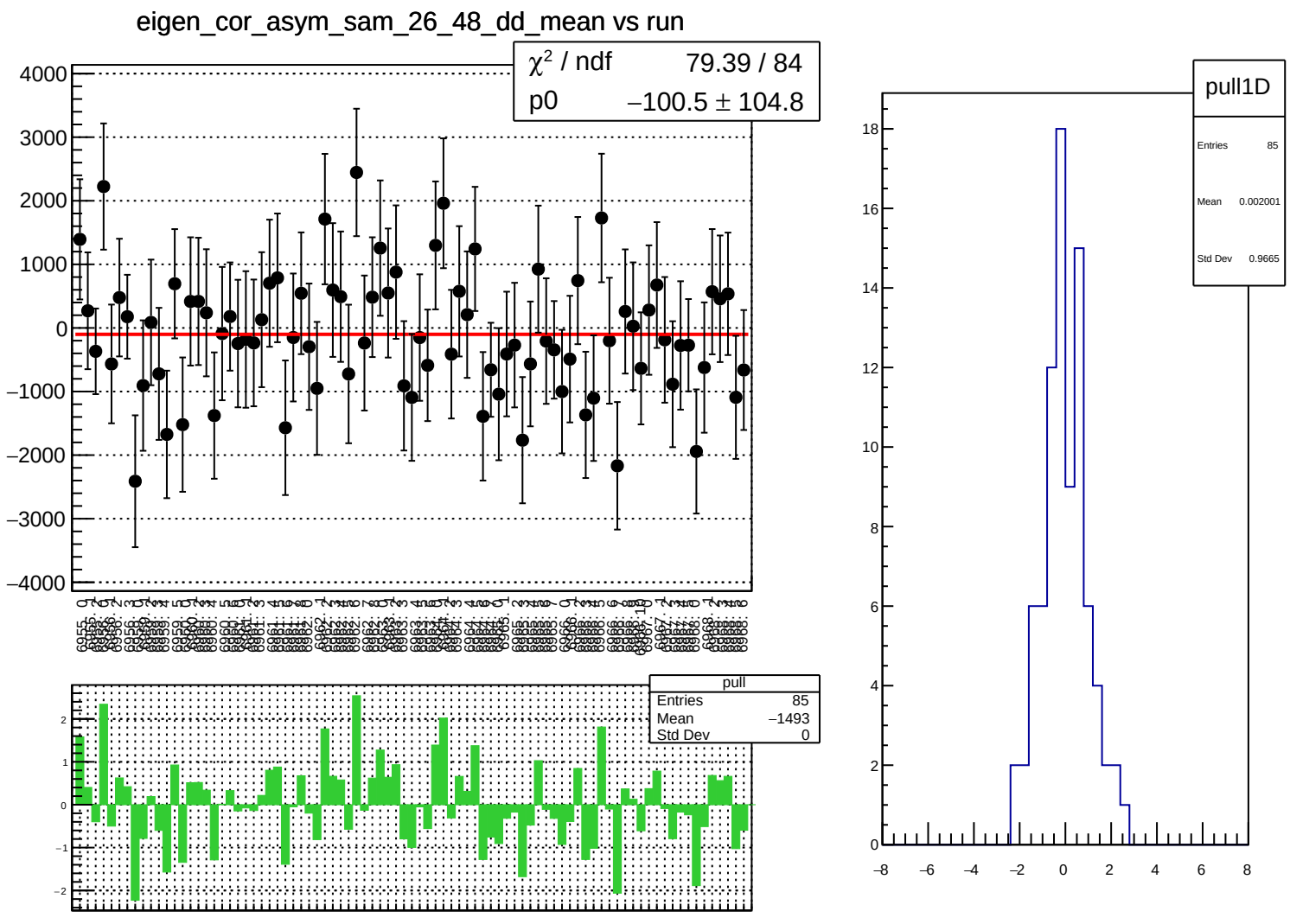

pull1D
Entries 85
Mean 0.002001
Std Dev 0.9665

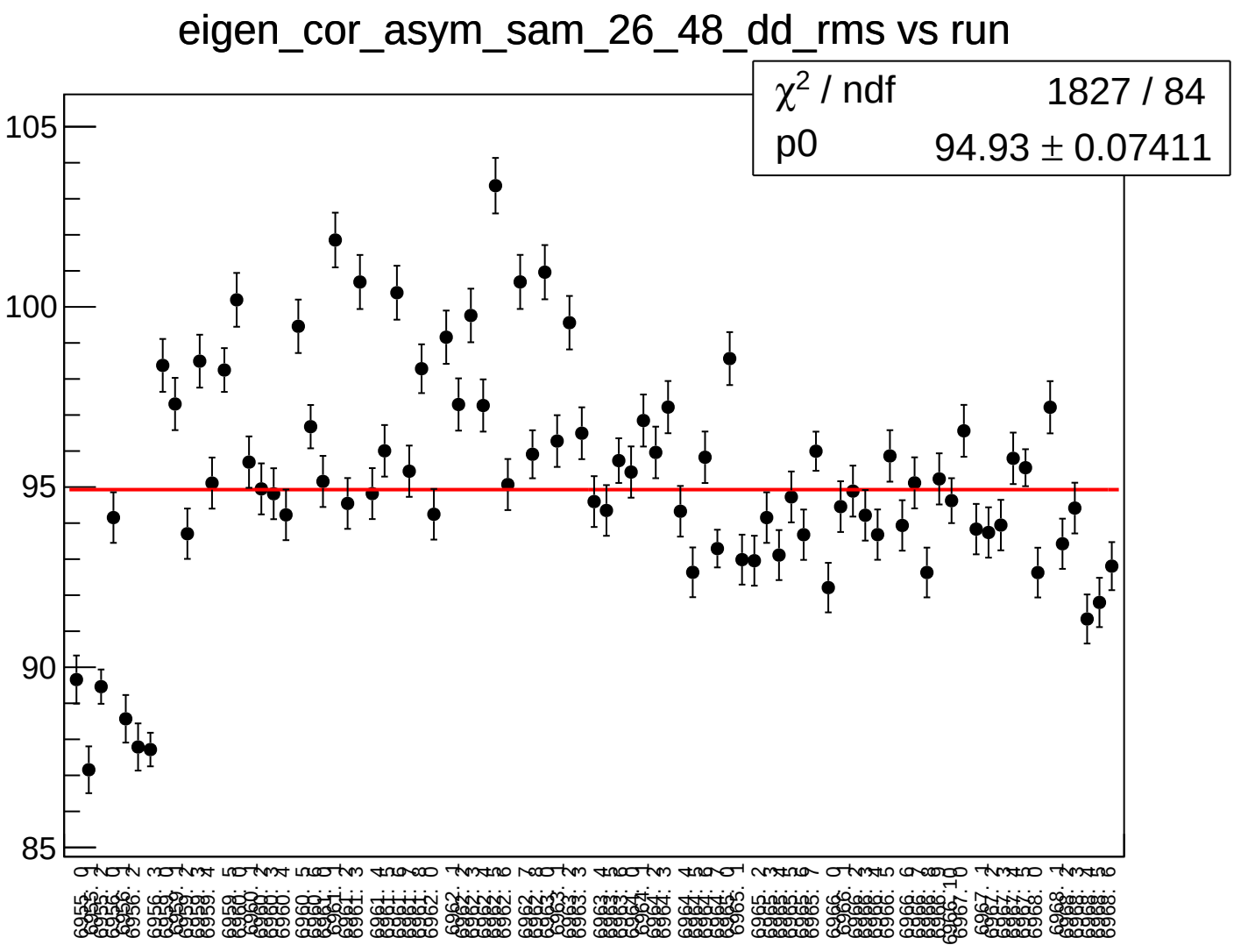

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1827 / 84
p0 94.93 ± 0.07411
105
100
95
90
85

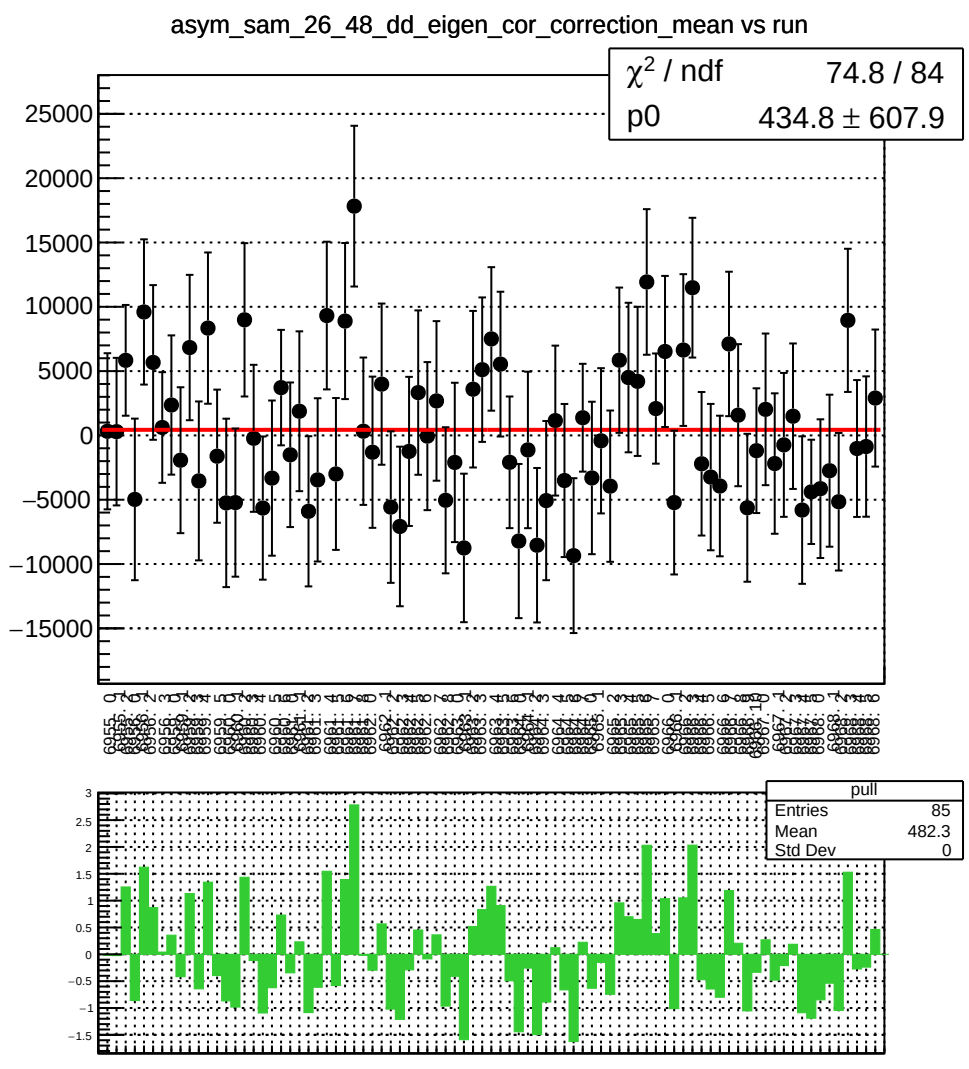

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 74.8 / 84
p0 434.8 ± 607.9
pull
Entries 85
Mean 482.3
Std Dev 0

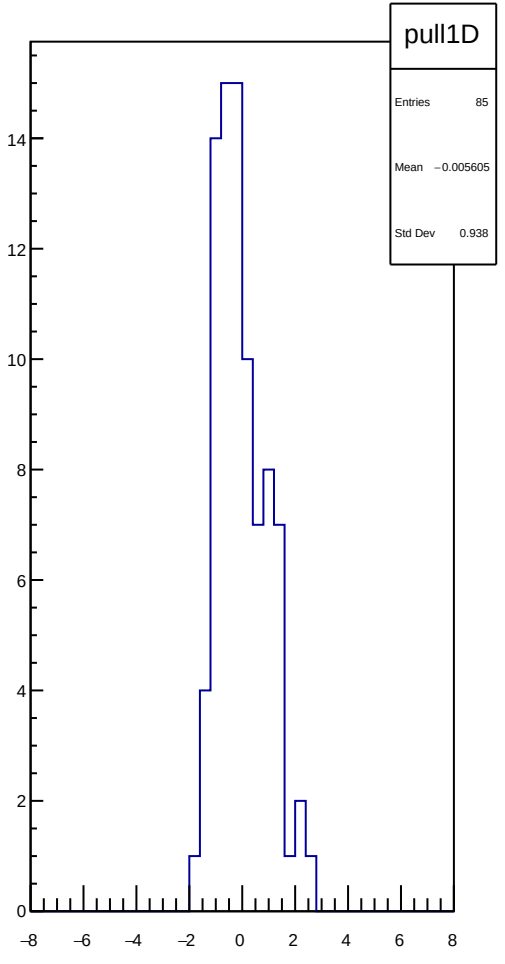

pull1D
Entries 85
Mean −0.005605
Std Dev 0.938

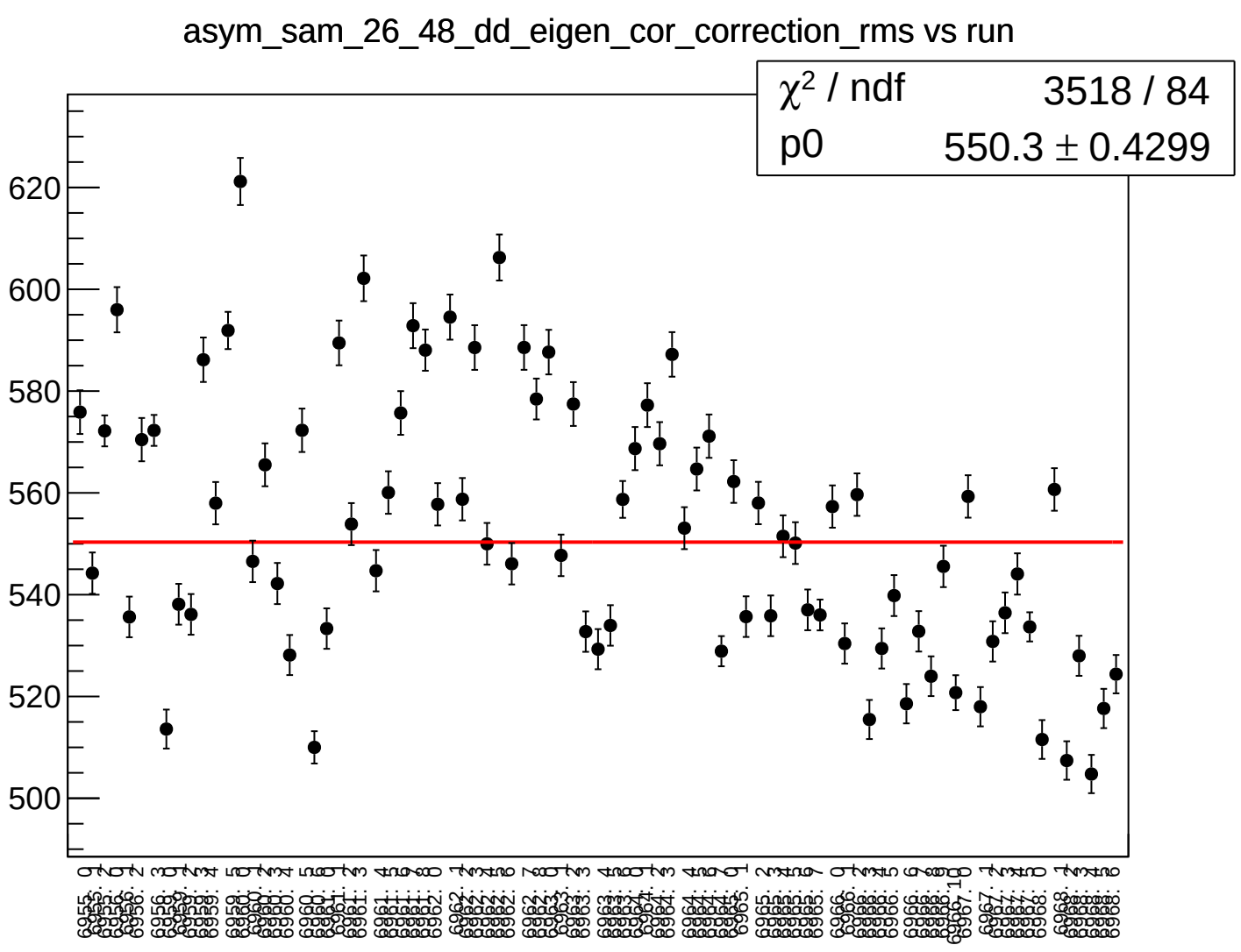

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 3518 / 84
p0 550.3 ± 0.4299
620
600
580
560
540
520
500

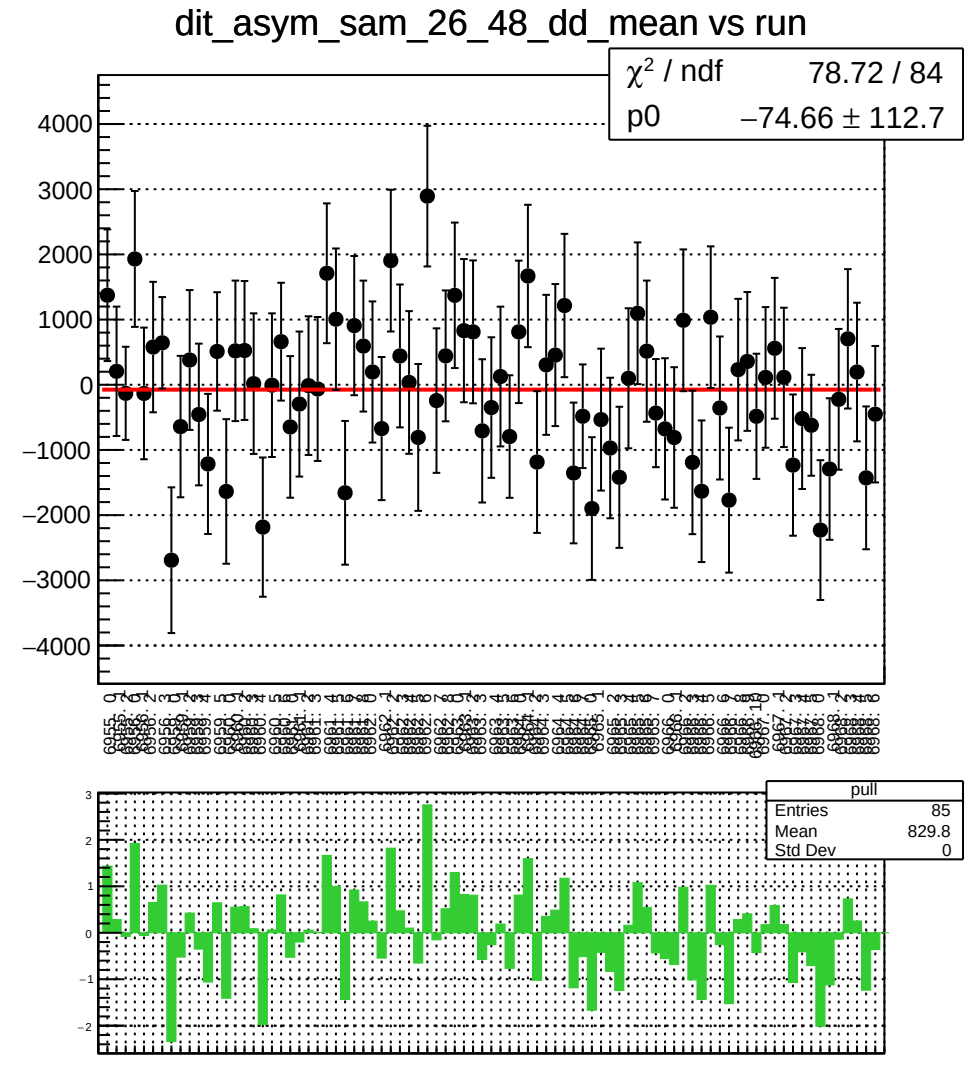

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 79.39 / 84
p0 −100.5 ± 104.8
pull
Entries 85
Mean −1493
Std Dev 0
pull1D
Entries 85
Mean 0.002001
Std Dev 0.9665

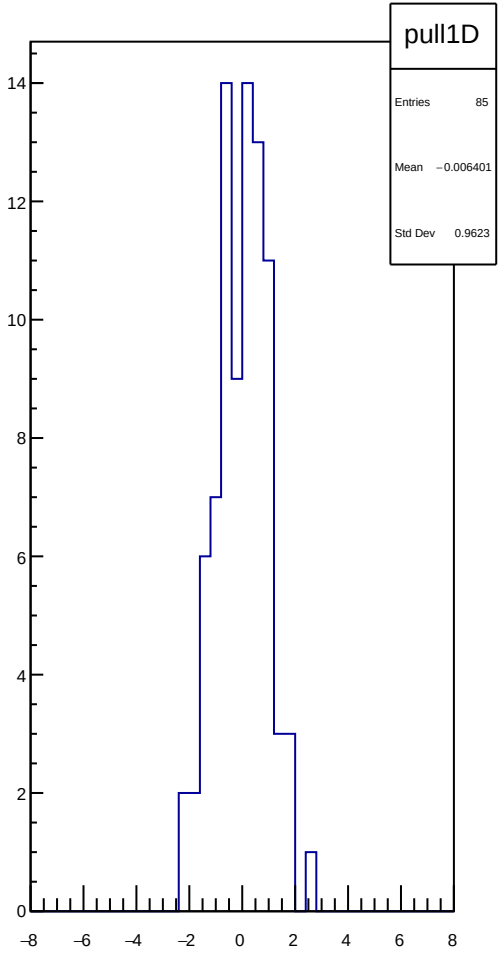

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1827 / 84
p0 94.93 ± 0.07411
105
100
95
90
85

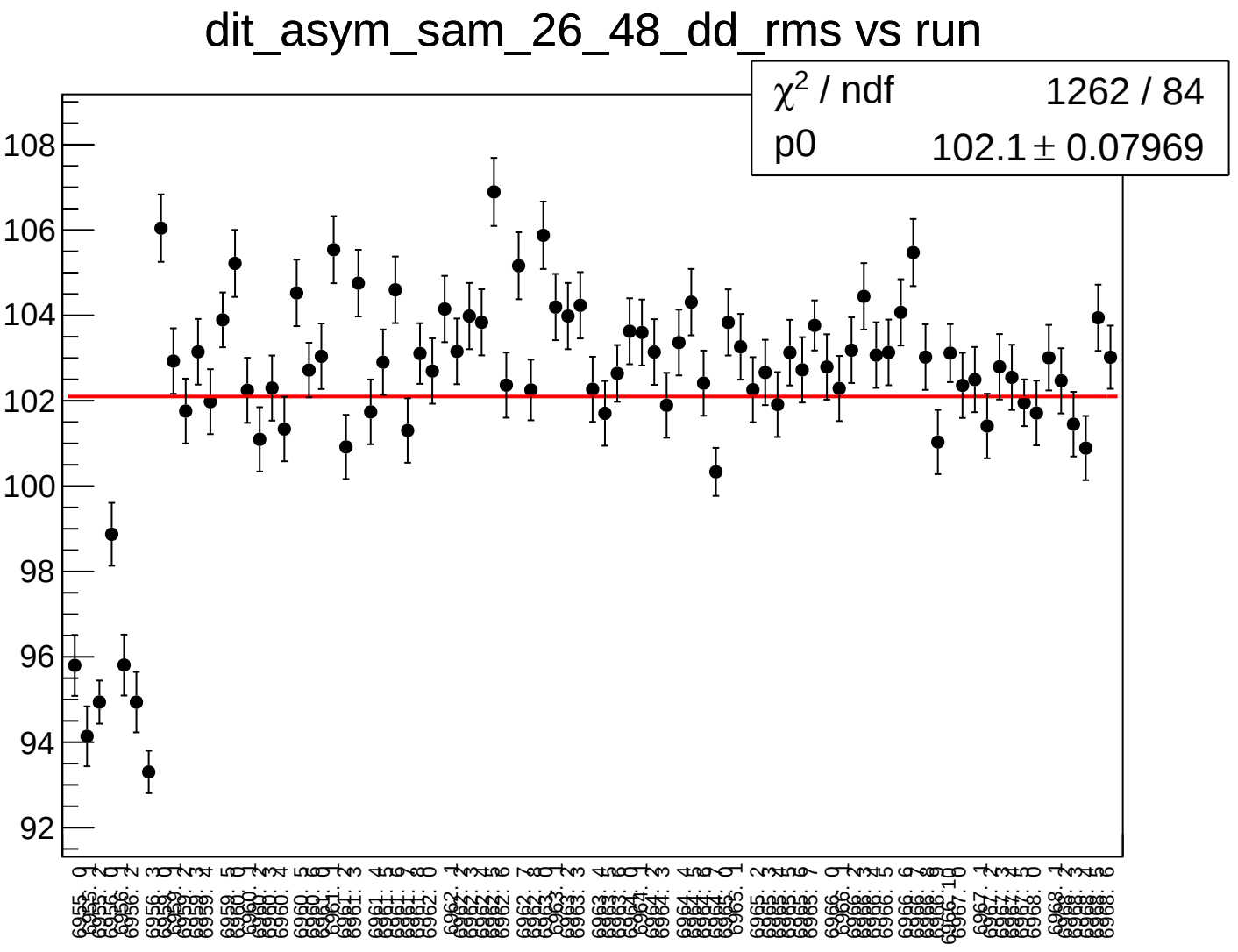

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.8 / 84
p0 434.8 ± 607.9
pull
Entries 85
Mean 482.3
Std Dev 0

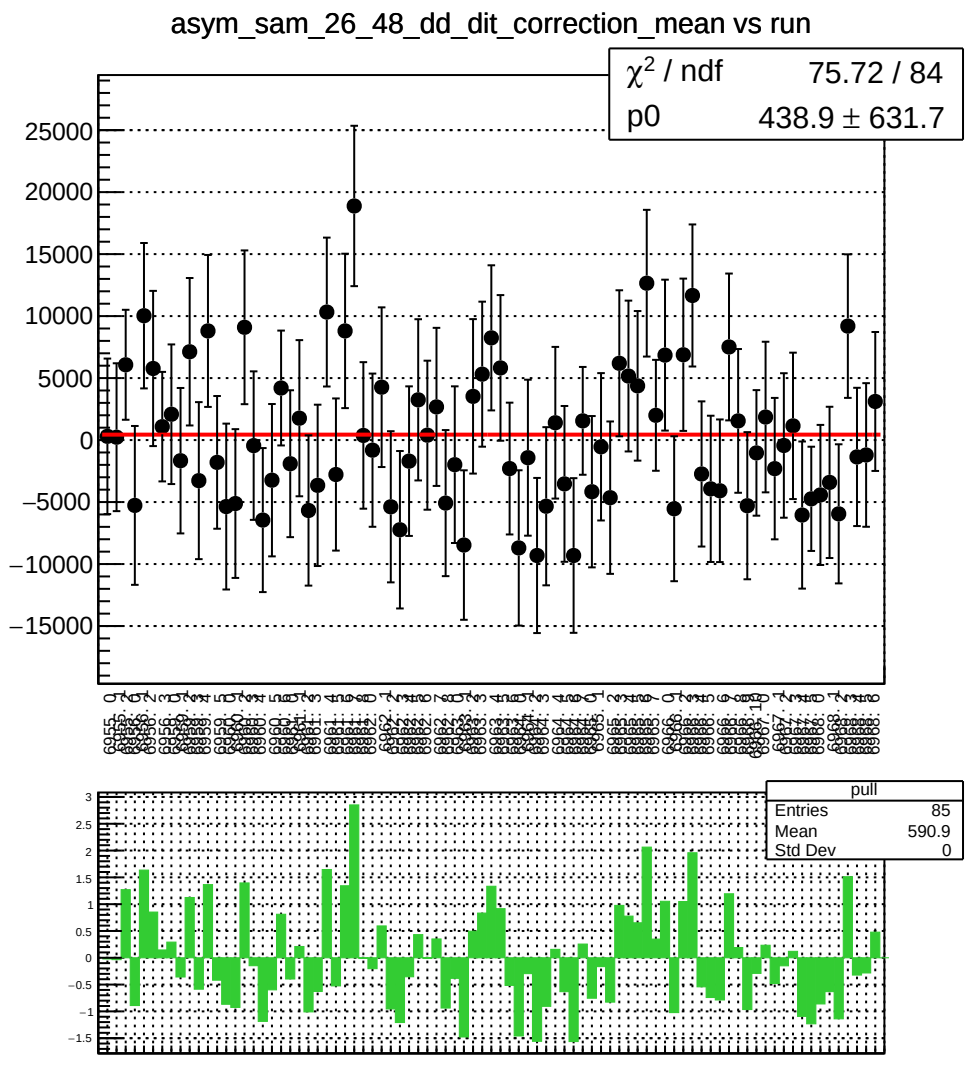

pull1D
Entries 85
Mean −0.005605
Std Dev 0.938

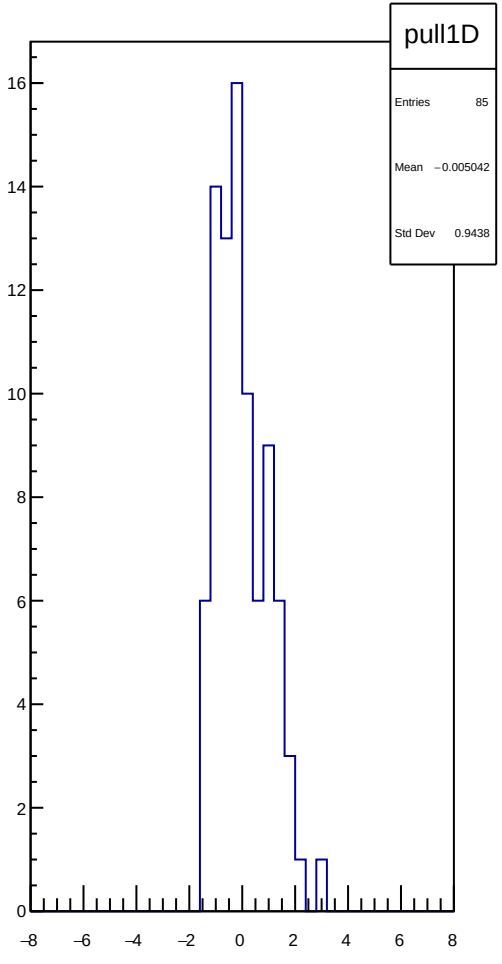

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3518 / 84
p0 550.3 ± 0.4299
620
600
580
560
540
520
500

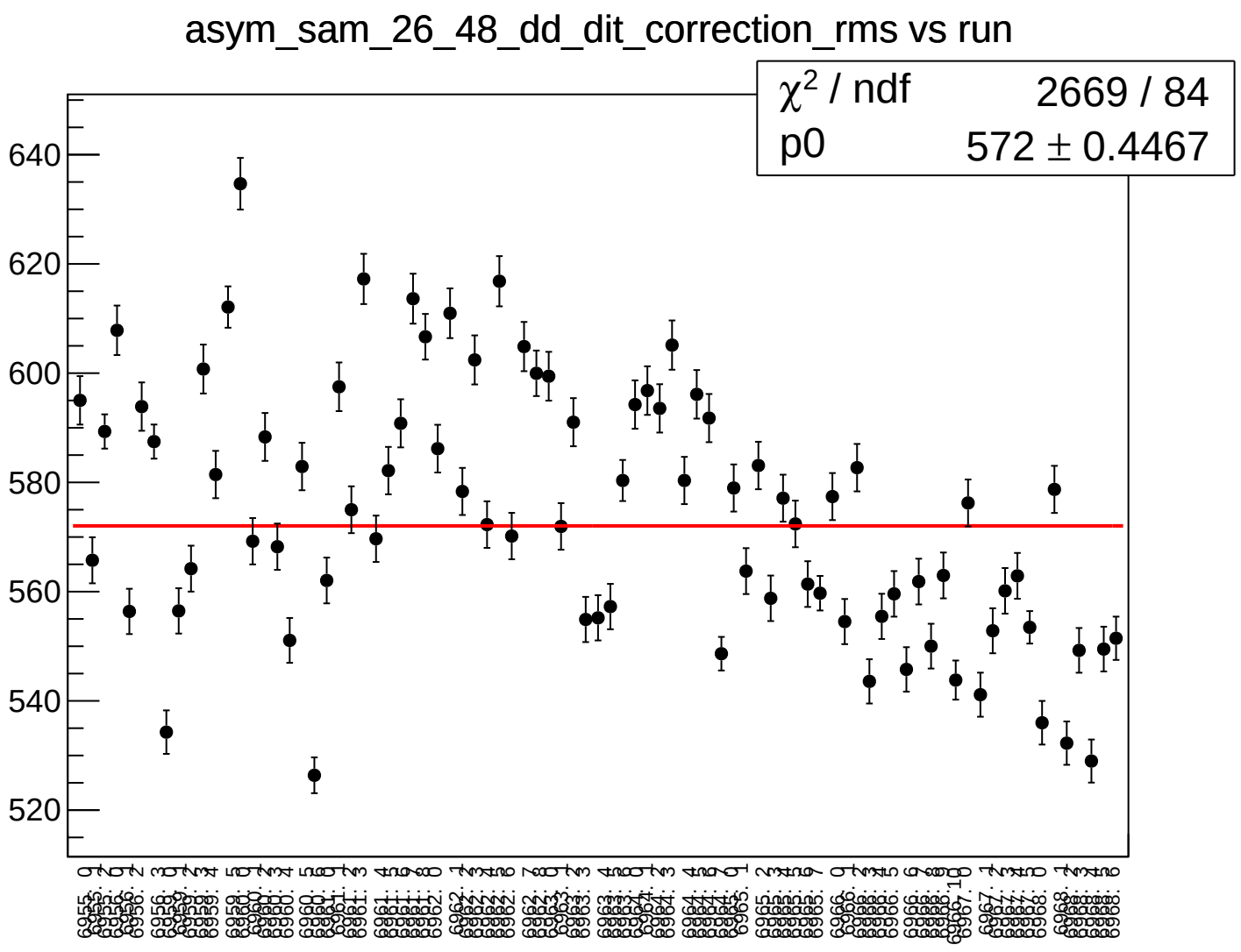

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 78.72 / 84
p0 −74.66 ± 112.7
pull
Entries 85
Mean 829.8
Std Dev 0

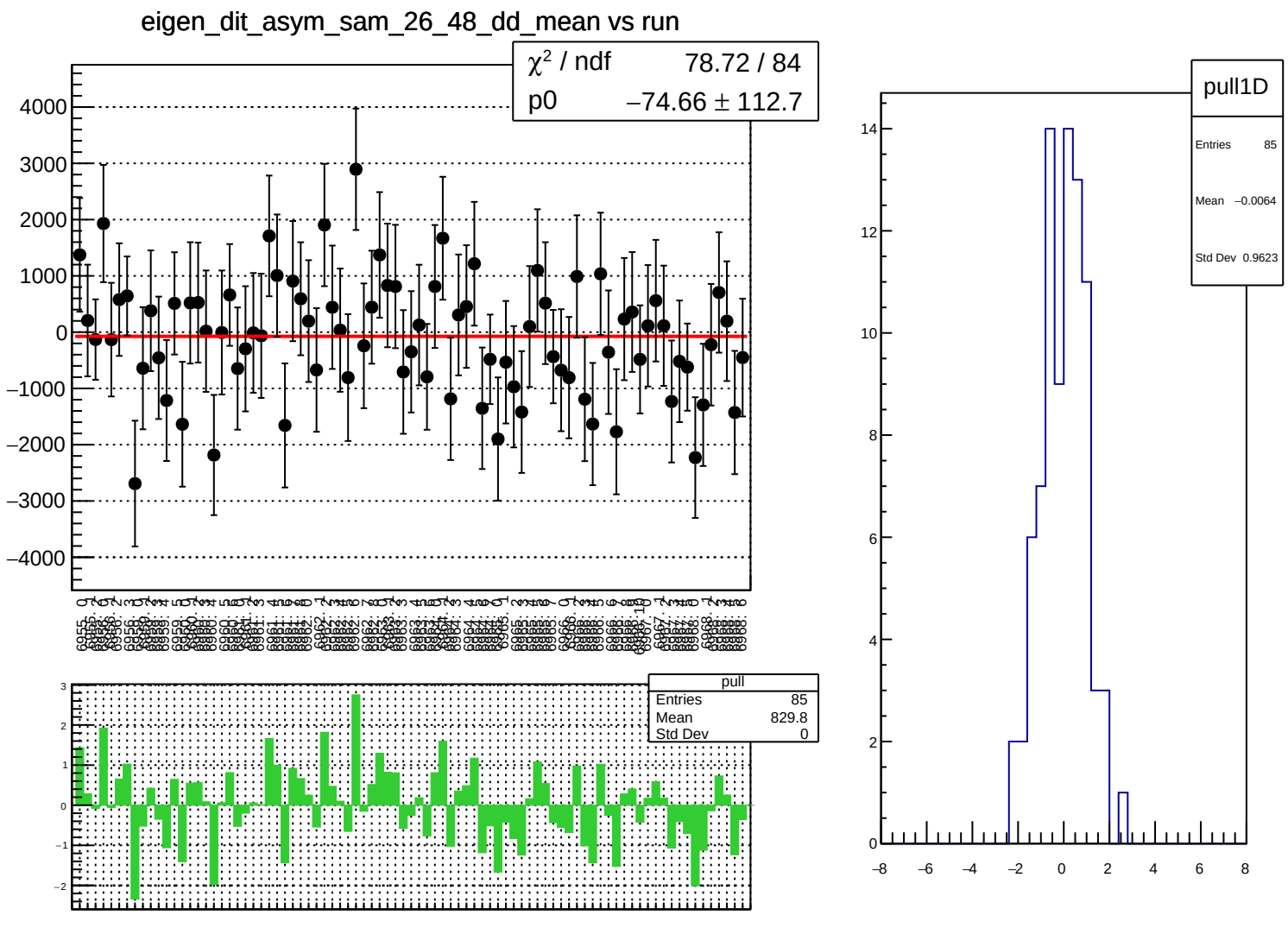

pull1D
Entries 85
Mean −0.006401
Std Dev 0.9623

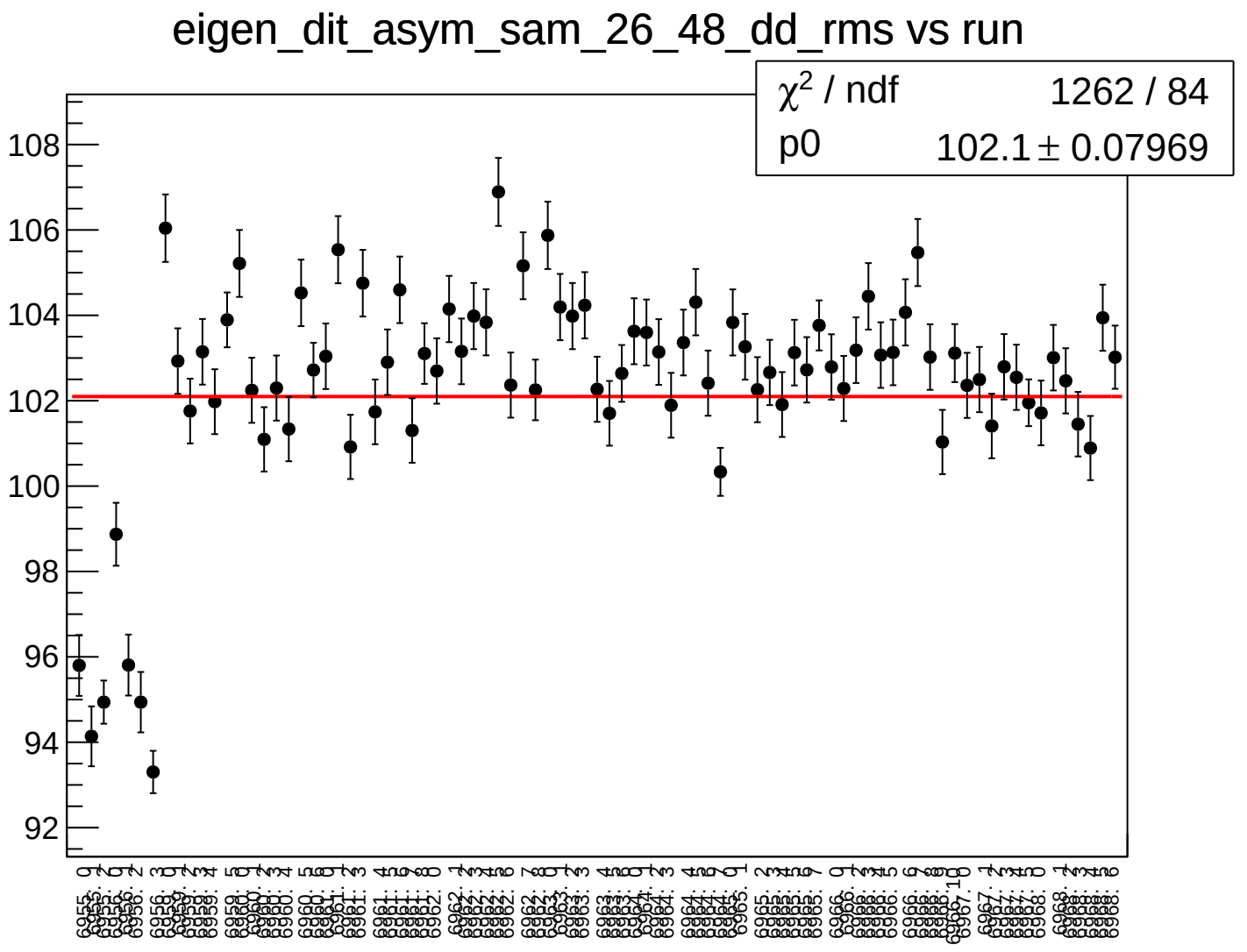

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1262 / 84
p0 102.1 ± 0.07969
108
106
104
102
100
98
96
94
92

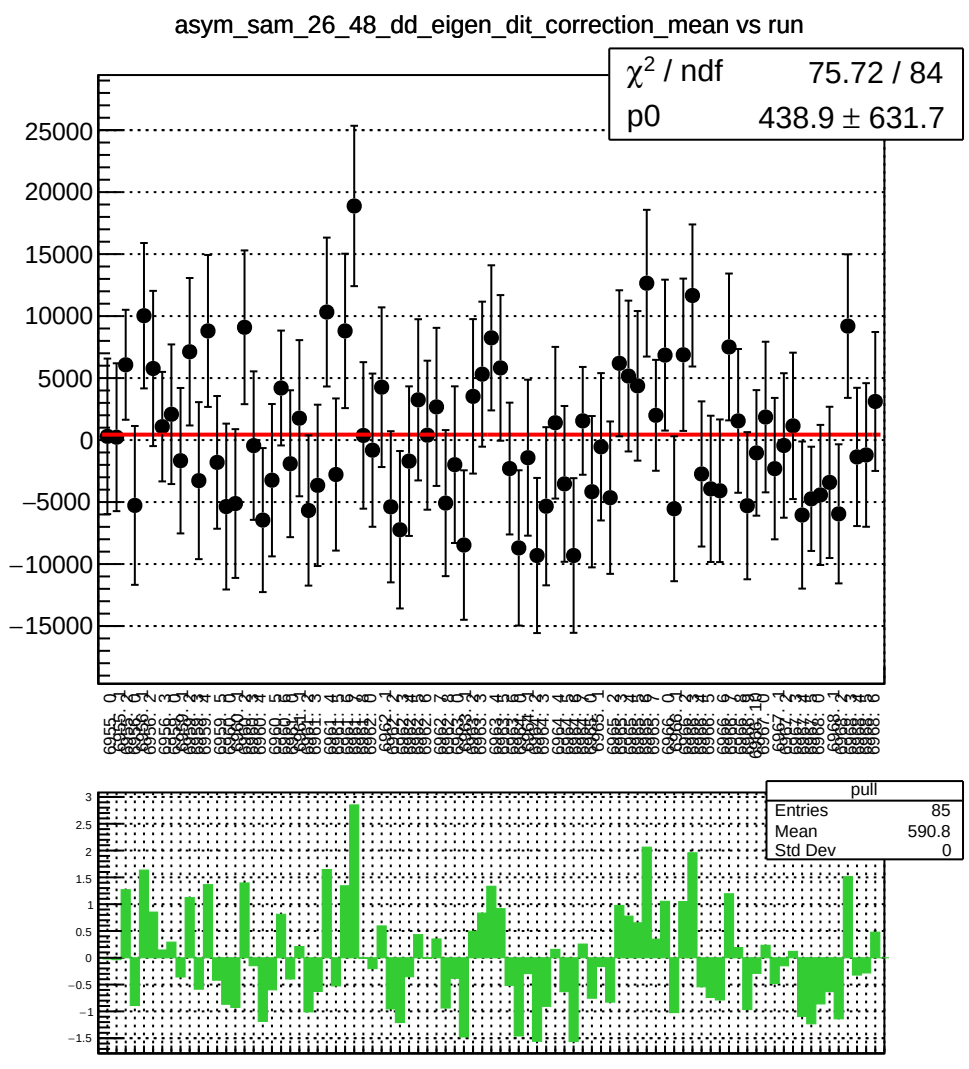

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 75.72 / 84
p0 438.9 ± 631.7
pull
Entries 85
Mean 590.9
Std Dev 0

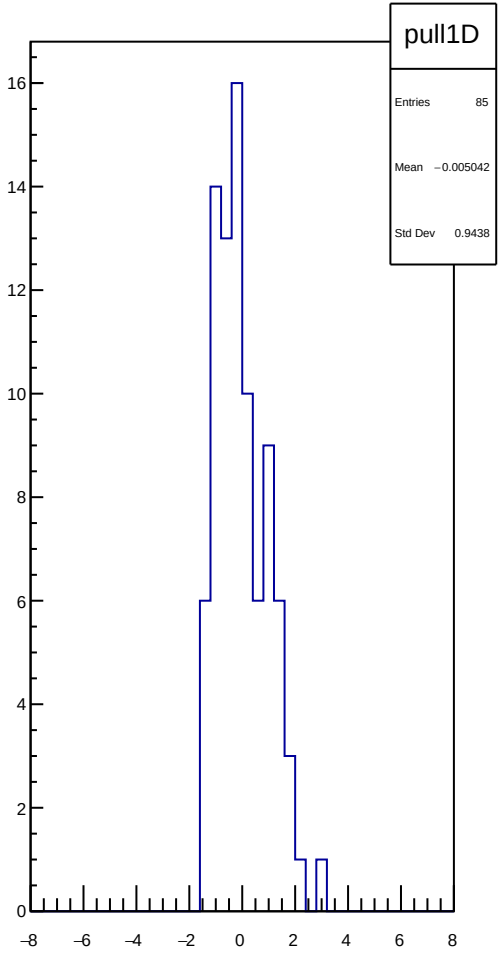

pull1D
Entries 85
Mean −0.005042
Std Dev 0.9438

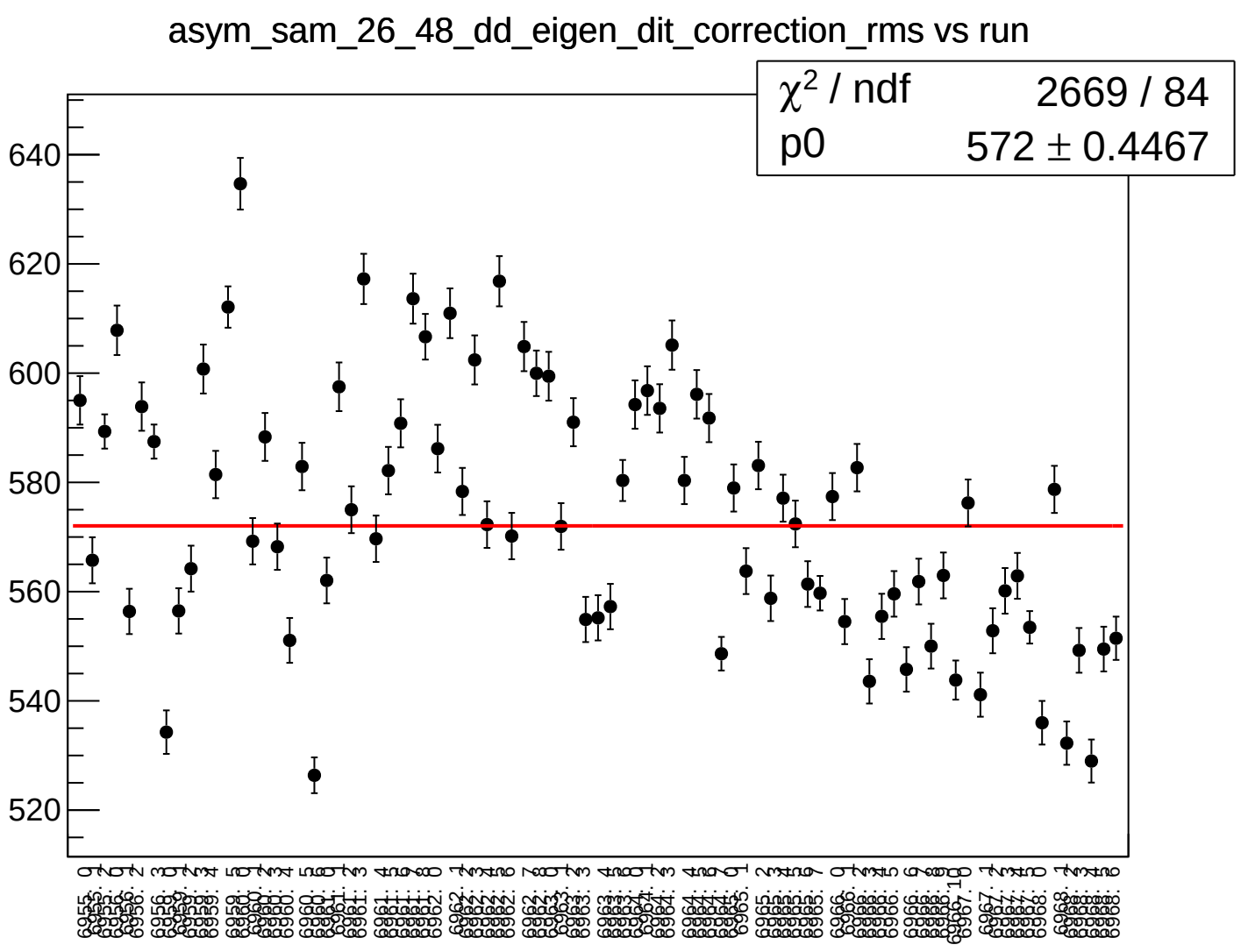

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 2669 / 84
p0 572 ± 0.4467
640
620
600
580
560
540
520

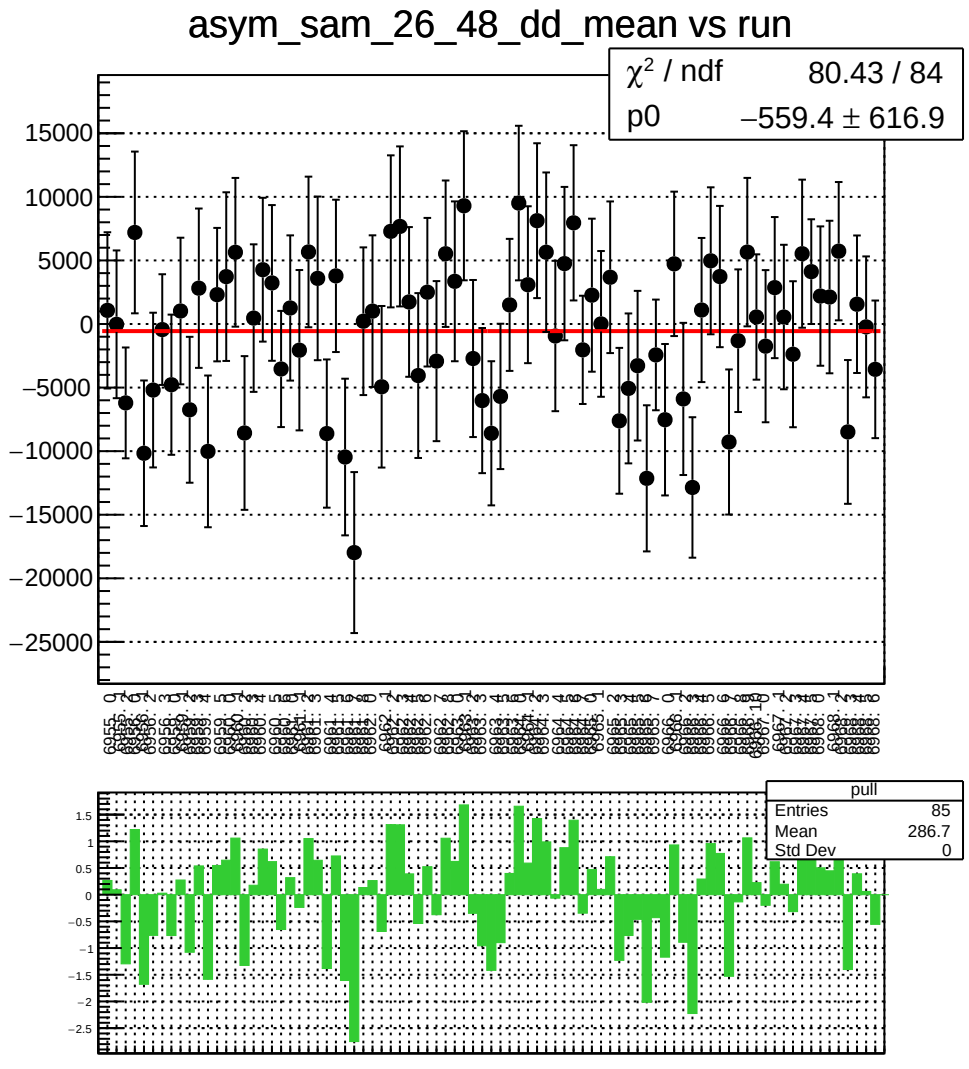

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 78.72 / 84
p0 −74.66 ± 112.7
pull
Entries 85
Mean 829.8
Std Dev 0
pull1D
Entries 85
Mean −0.0064
Std Dev 0.9623

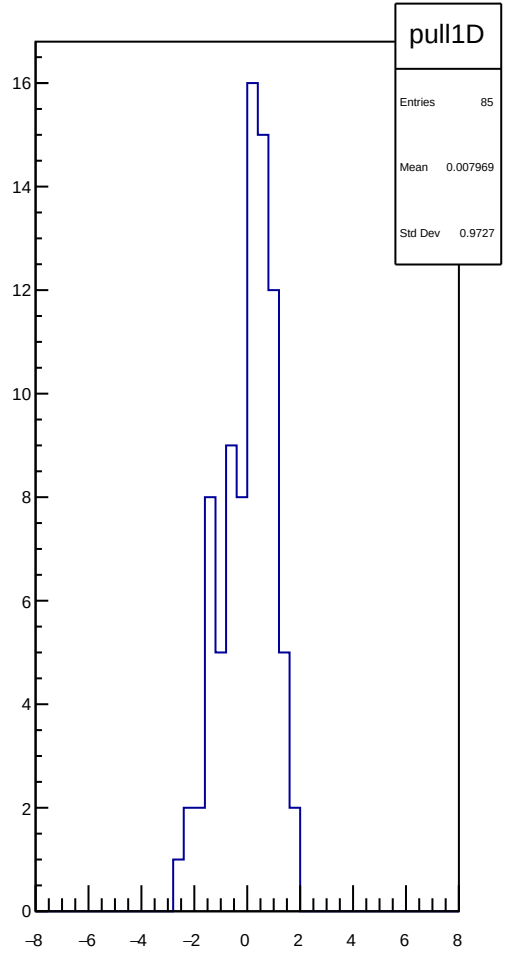

eigen_dit_asym_sam_26_48_dd_rms vs run
$\chi^2$ / ndf 1262 / 84
p0 102.1 ± 0.07969
108
106
104
102
100
98
96
94
92

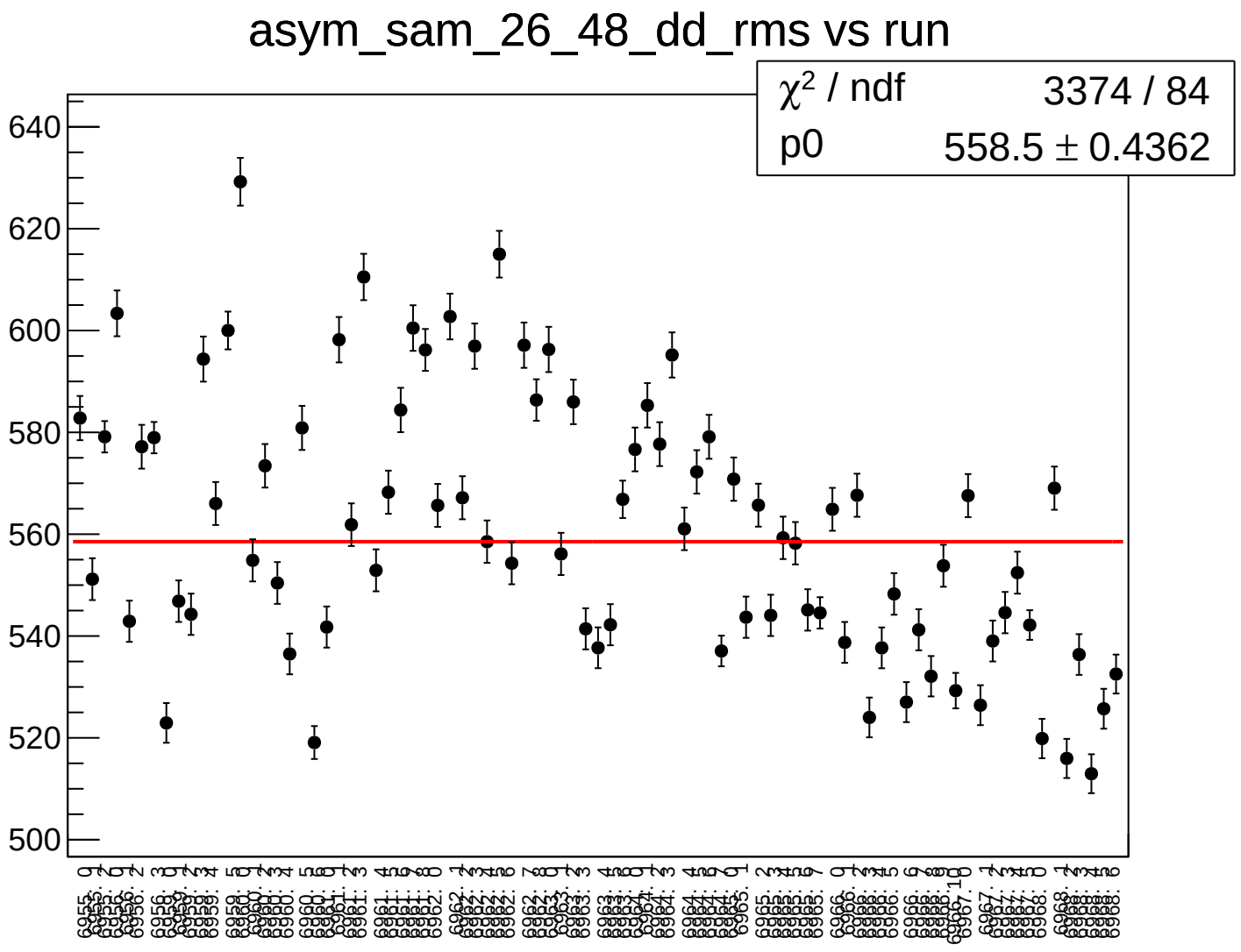

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.72 / 84
p0 438.9 ± 631.7
pull
Entries 85
Mean 590.8
Std Dev 0

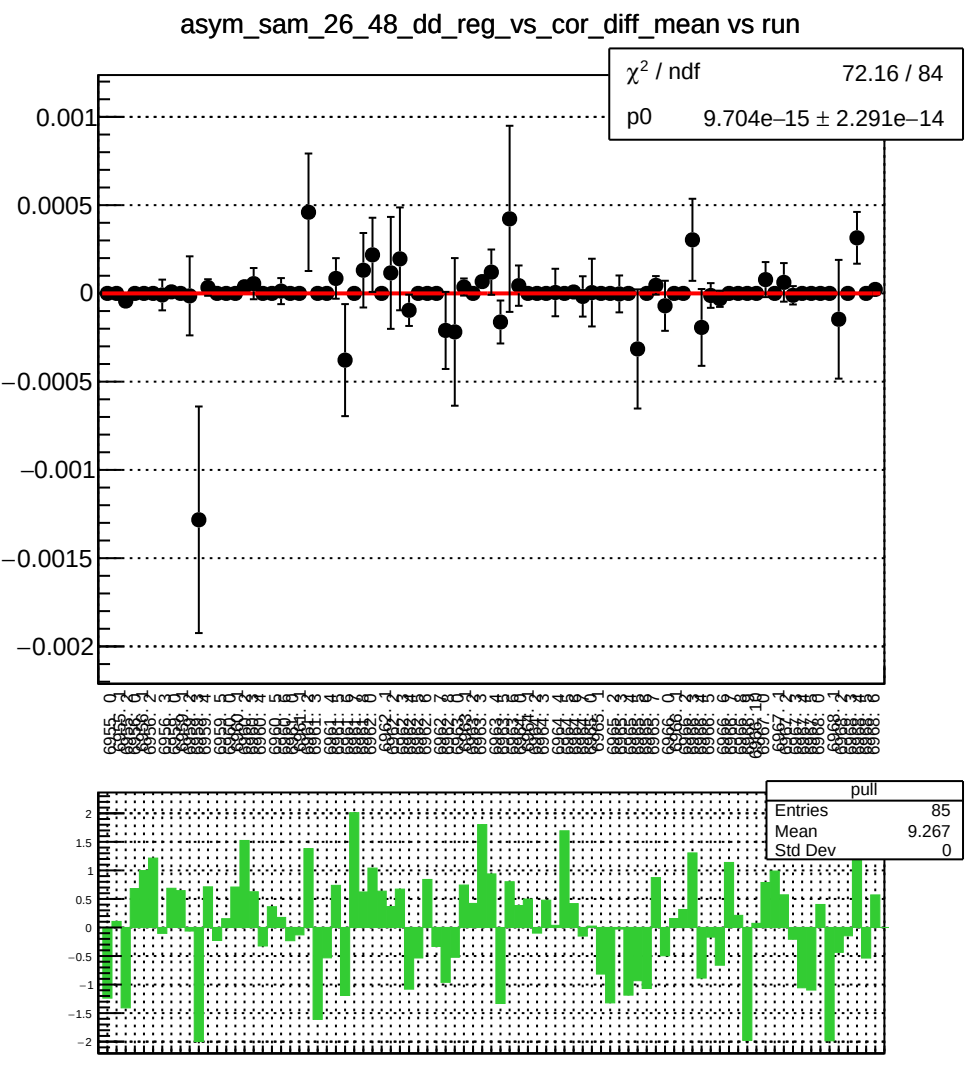

pull1D
Entries 85
Mean −0.005042
Std Dev 0.9438

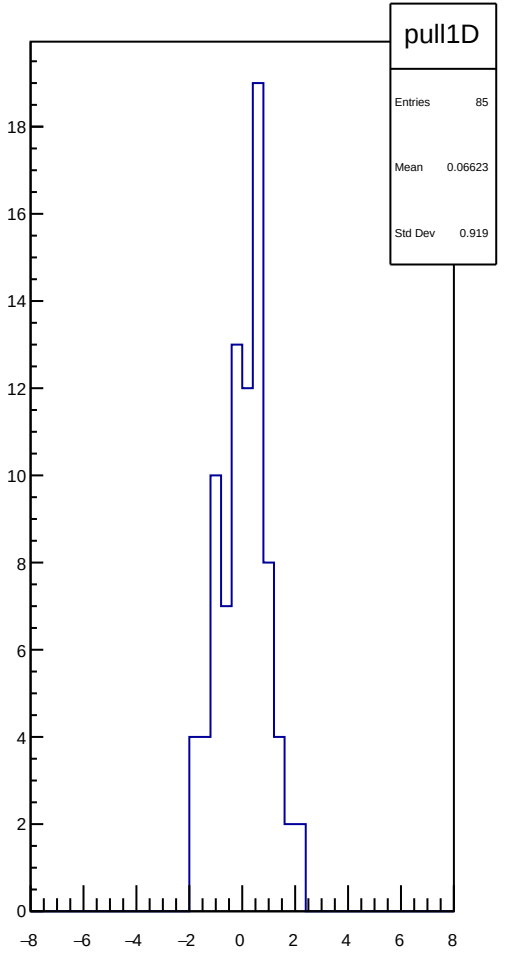

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2669 / 84
p0 572 ± 0.4467
640
620
600
580
560
540
520

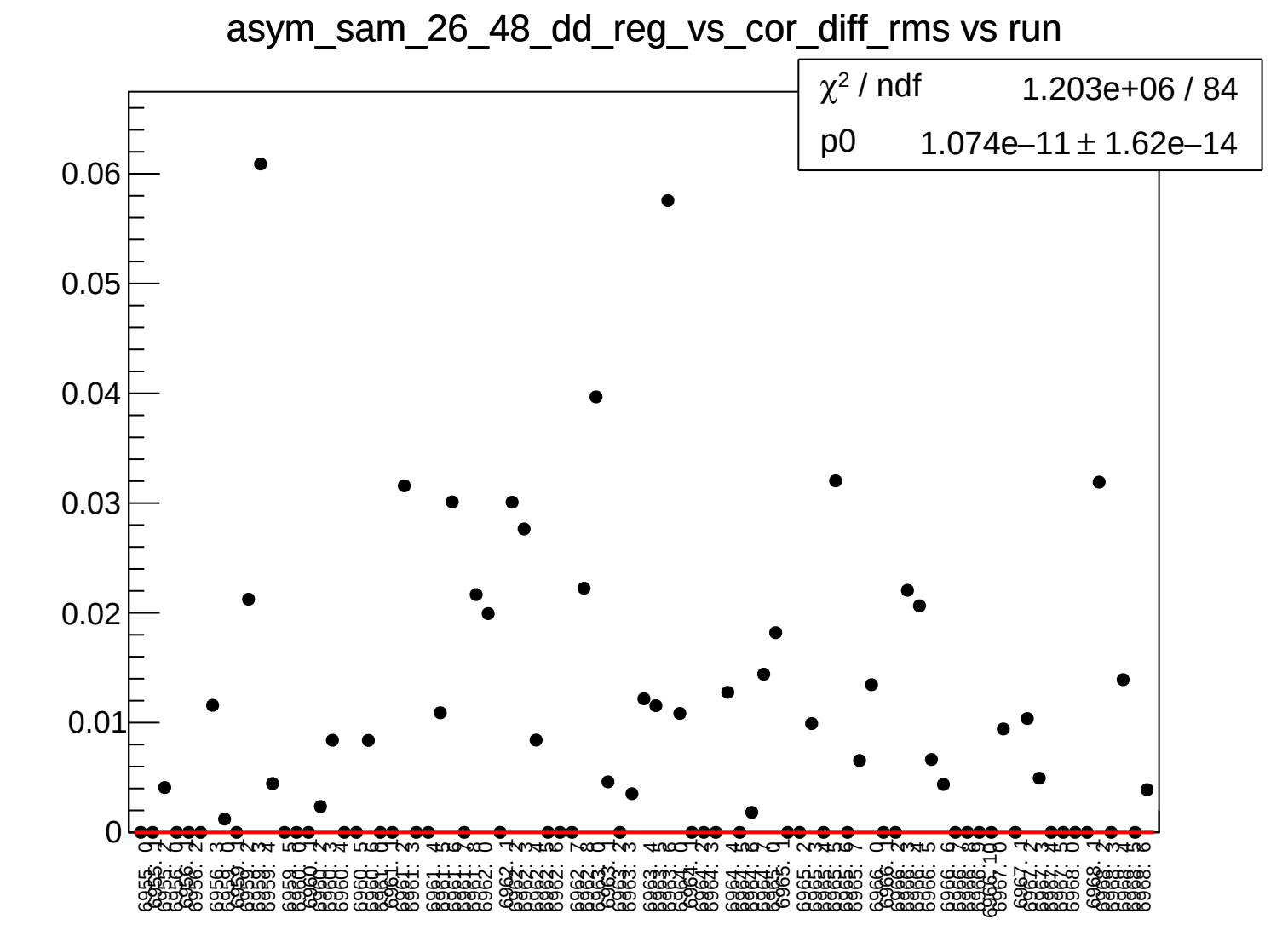

asym_sam_26_48_dd_mean vs run
χ² / ndf 80.43 / 84
p0 −559.4 ± 616.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 85
Mean 286.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

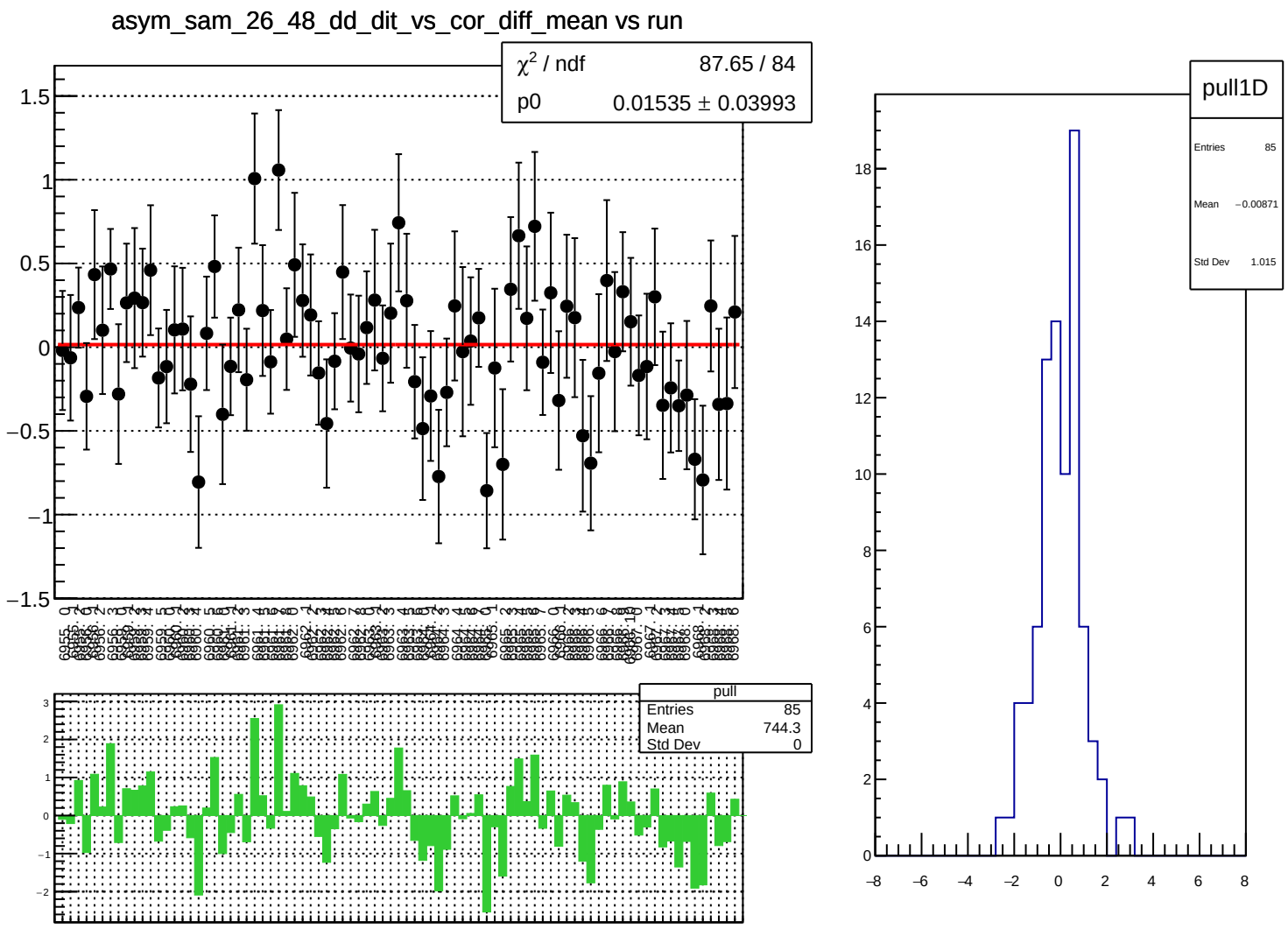

pull1D
Entries 85
Mean 0.007969
Std Dev 0.9727
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

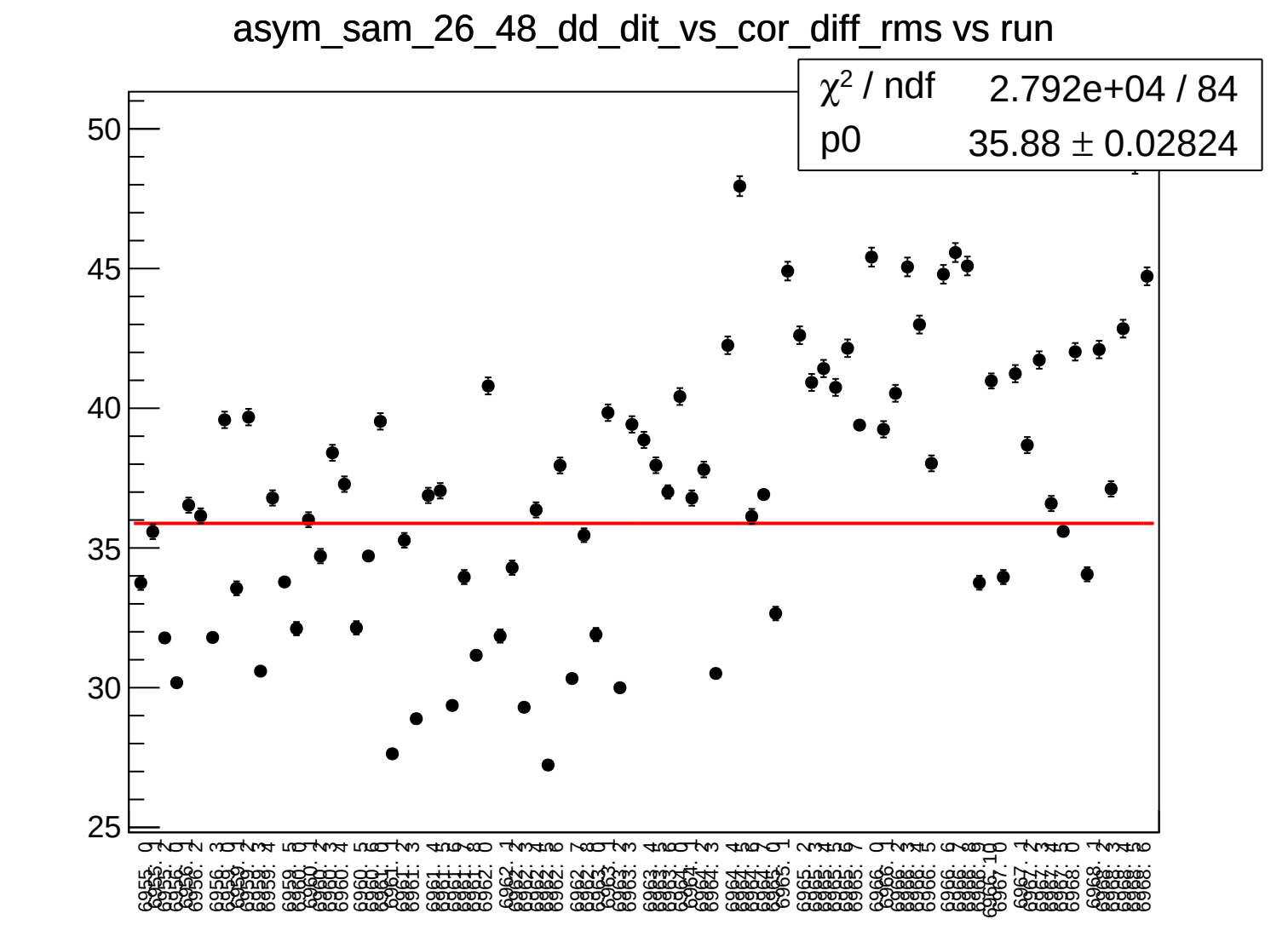

asym_sam_26_48_dd_rms vs run
χ² / ndf 3374 / 84
p0 558.5 ± 0.4362
640
620
600
580
560
540
520
500

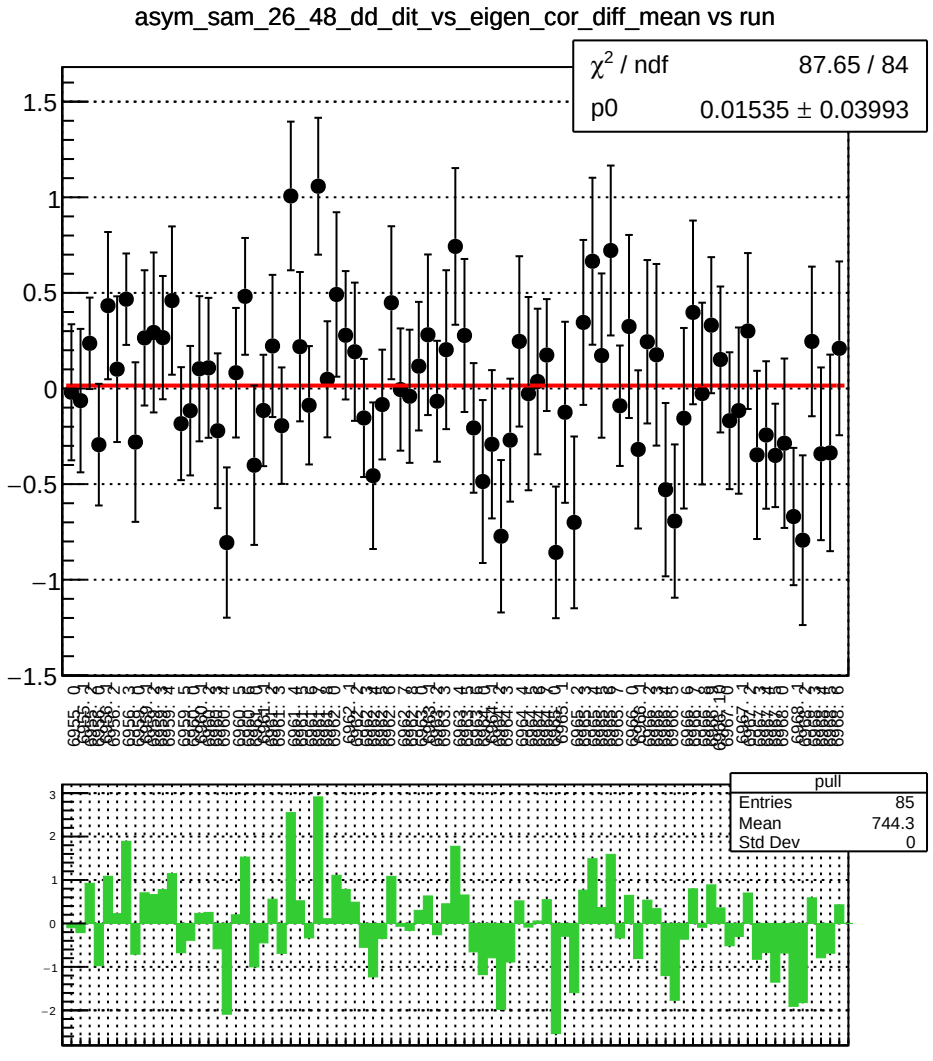

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.16 / 84
p0 9.704e−15 ± 2.291e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 85
Mean 9.267
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

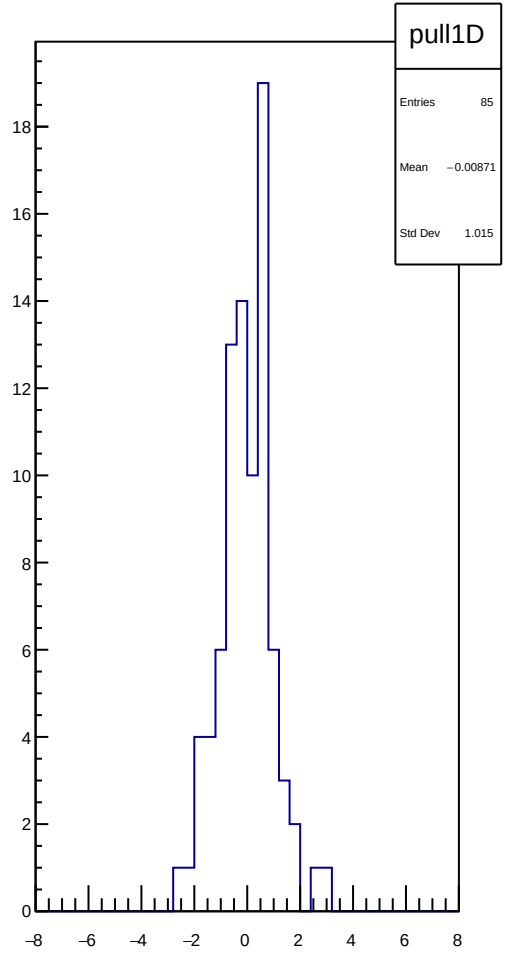

pull1D
Entries 85
Mean 0.06623
Std Dev 0.919
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

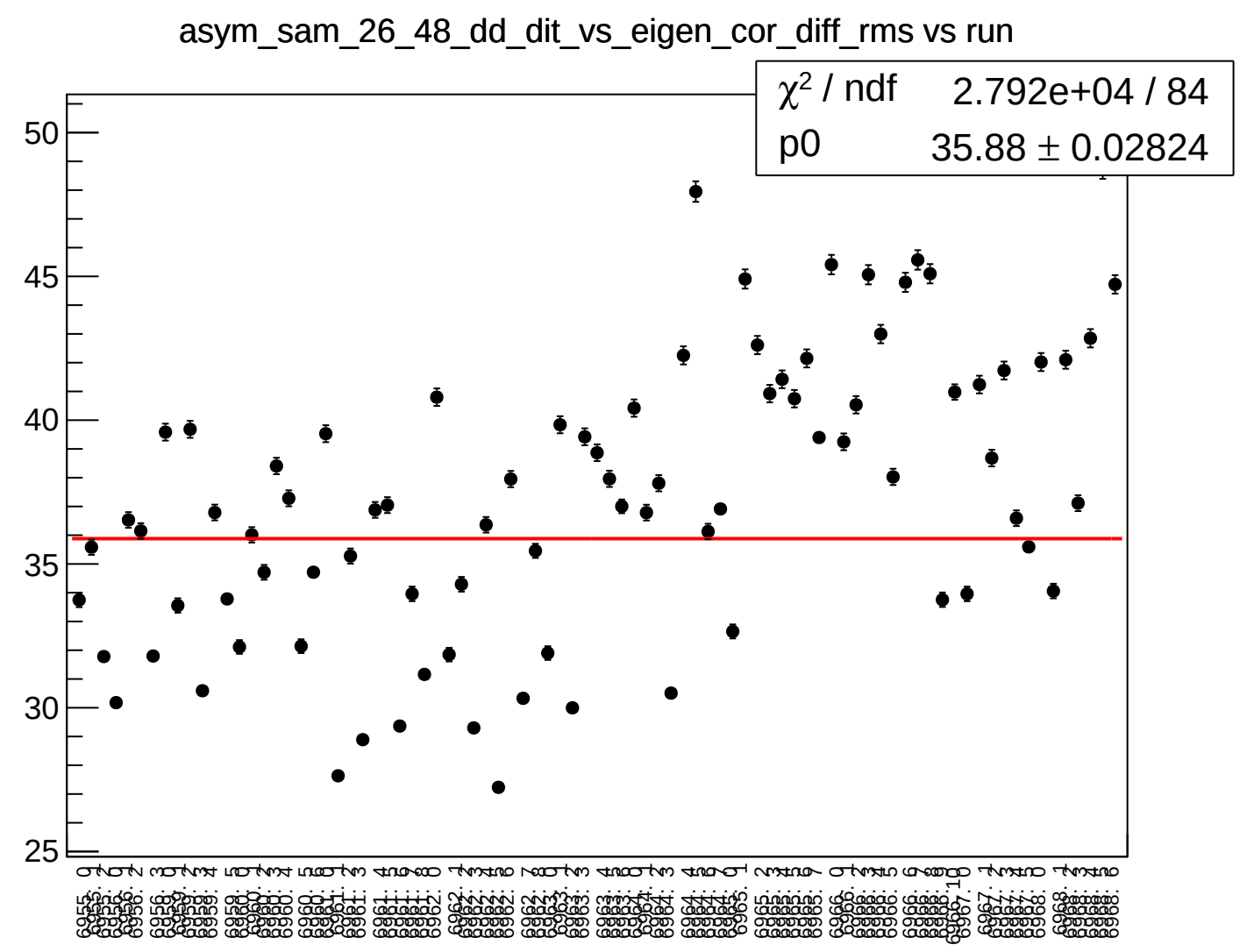

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.203e+06 / 84
p0 1.074e−11 ± 1.62e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

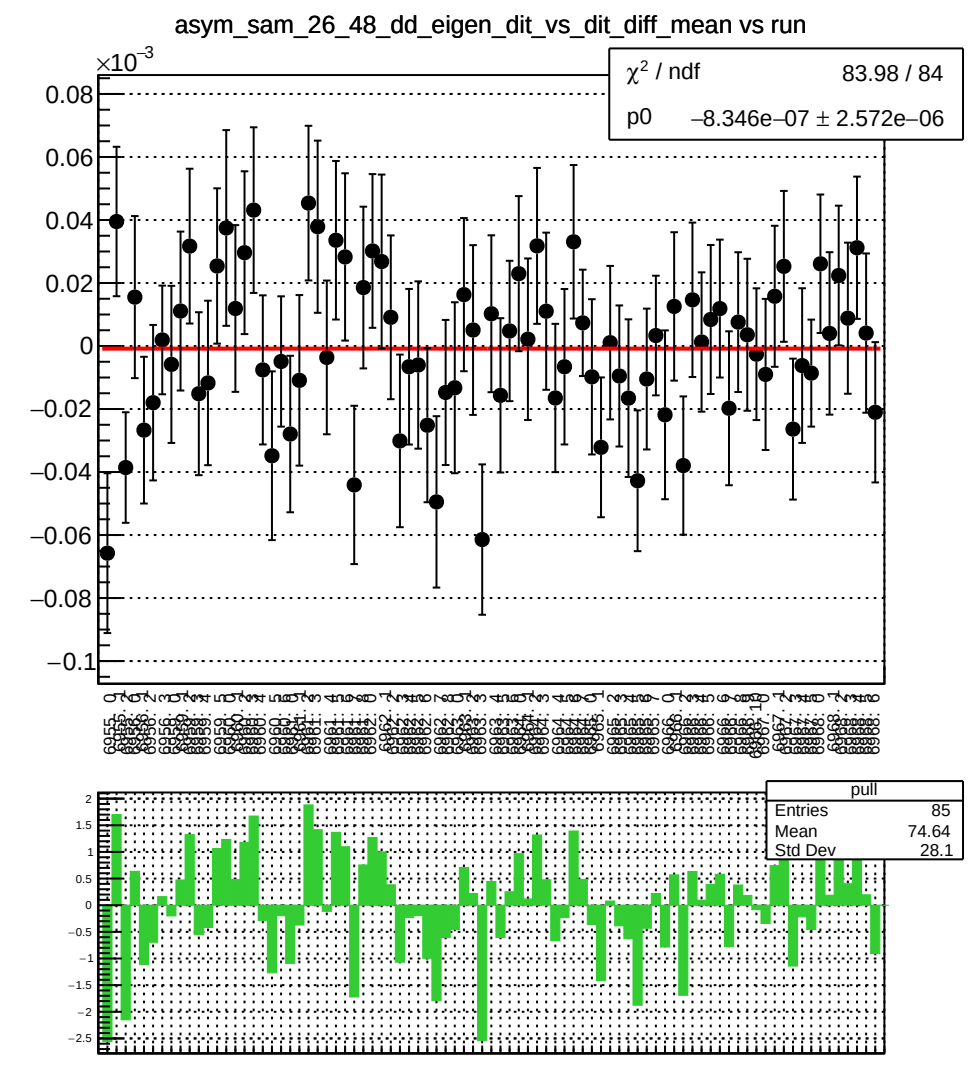

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.65 / 84
p0 0.01535 ± 0.03993
pull
Entries 85
Mean 744.3
Std Dev 0
pull1D
Entries 85
Mean −0.00871
Std Dev 1.015

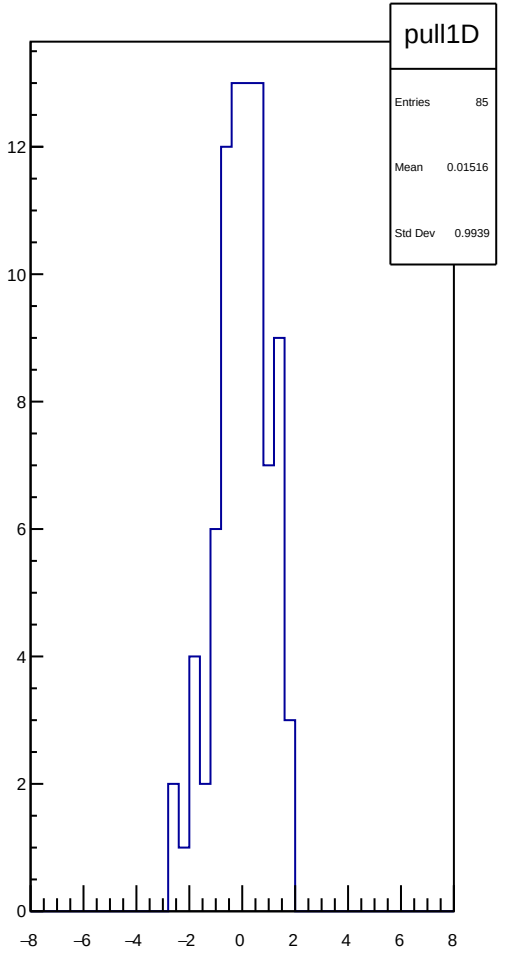

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.792e+04 / 84
p0 35.88 ± 0.02824
50
45
40
35
30
25

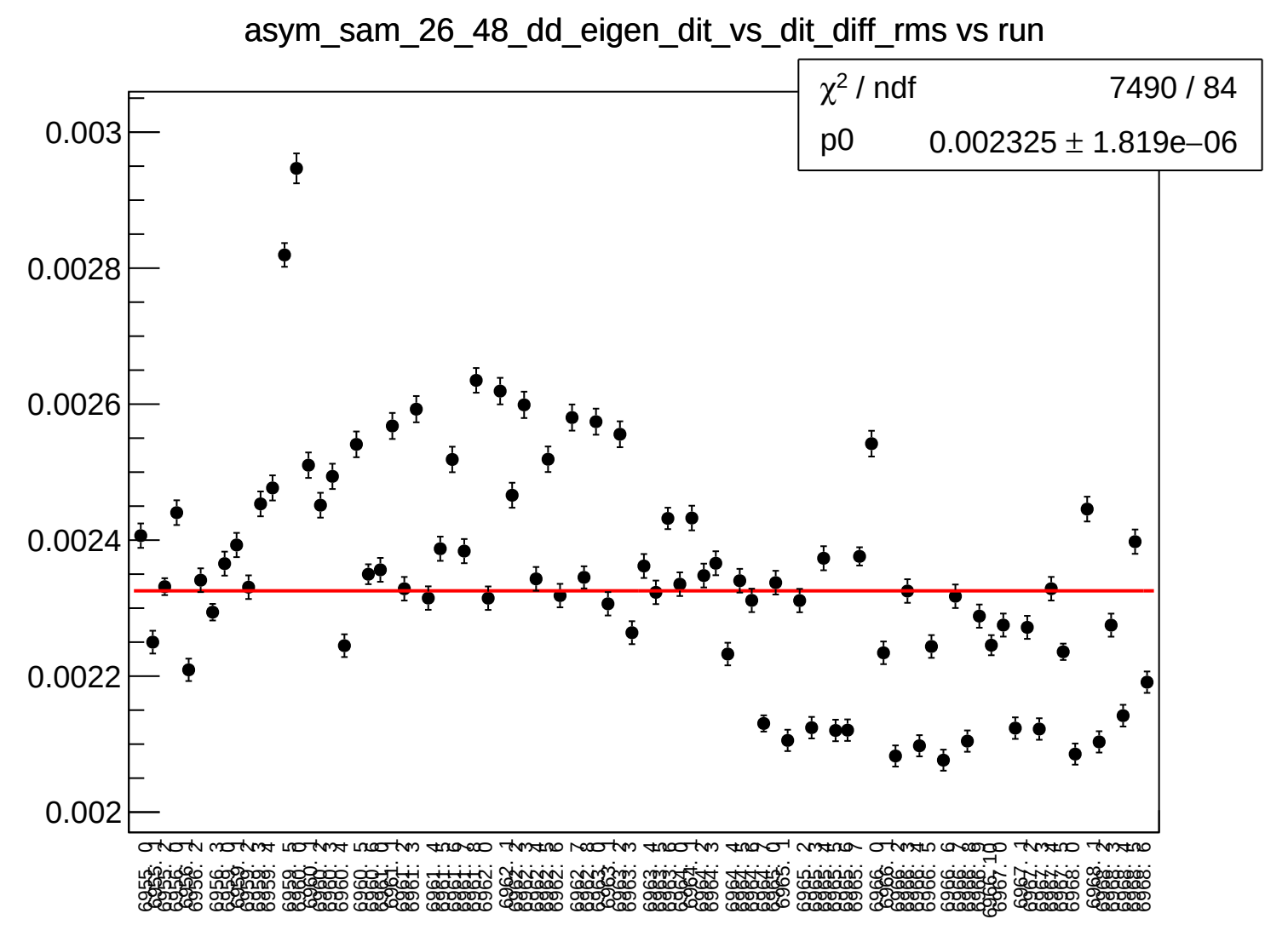

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.65 / 84
p0 0.01535 ± 0.03993
pull
Entries 85
Mean 744.3
Std Dev 0

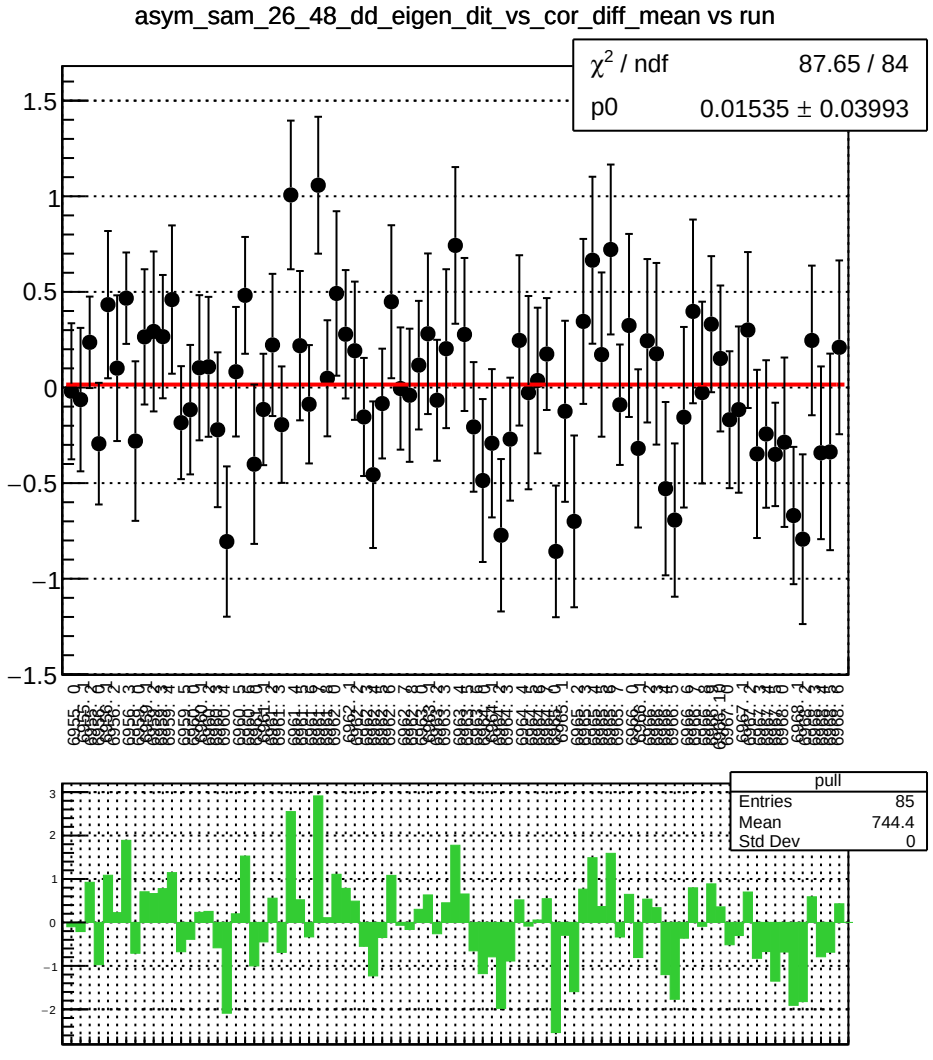

pull1D
Entries 85
Mean −0.00871
Std Dev 1.015

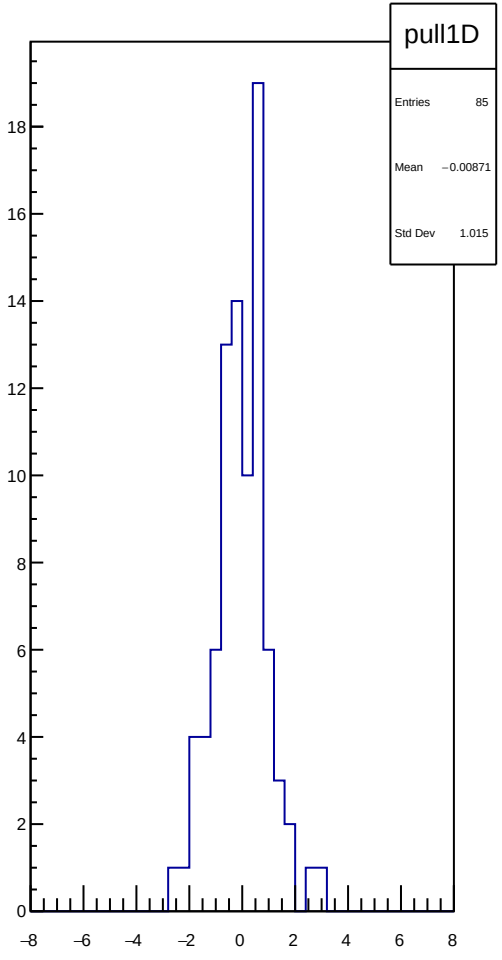

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.792e+04 / 84
p0 35.88 ± 0.02824
50
45
40
35
30
25

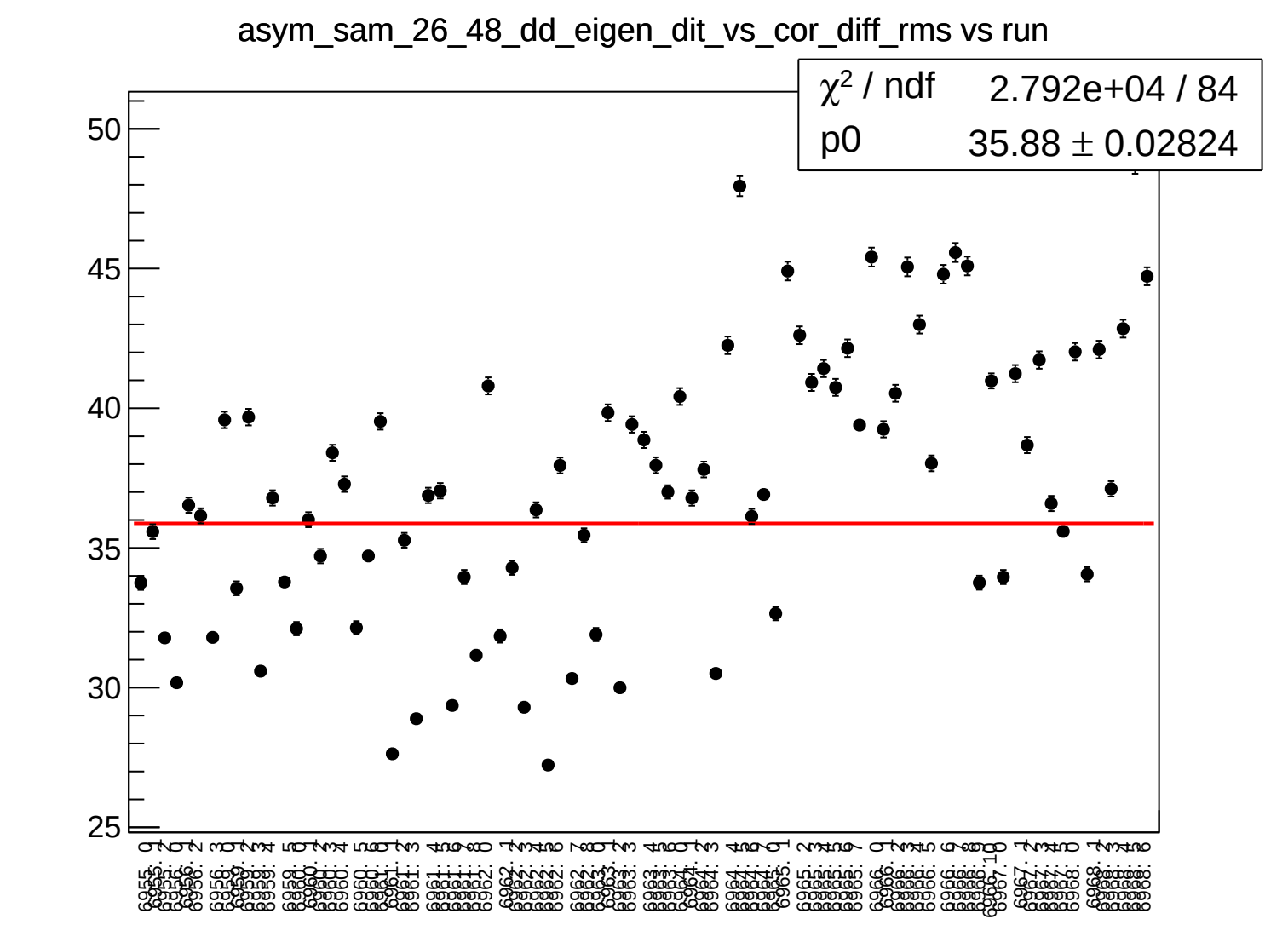

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 83.98 / 84
p0 −8.346e−07 ± 2.572e−06
pull
Entries 85
Mean 74.64
Std Dev 28.1

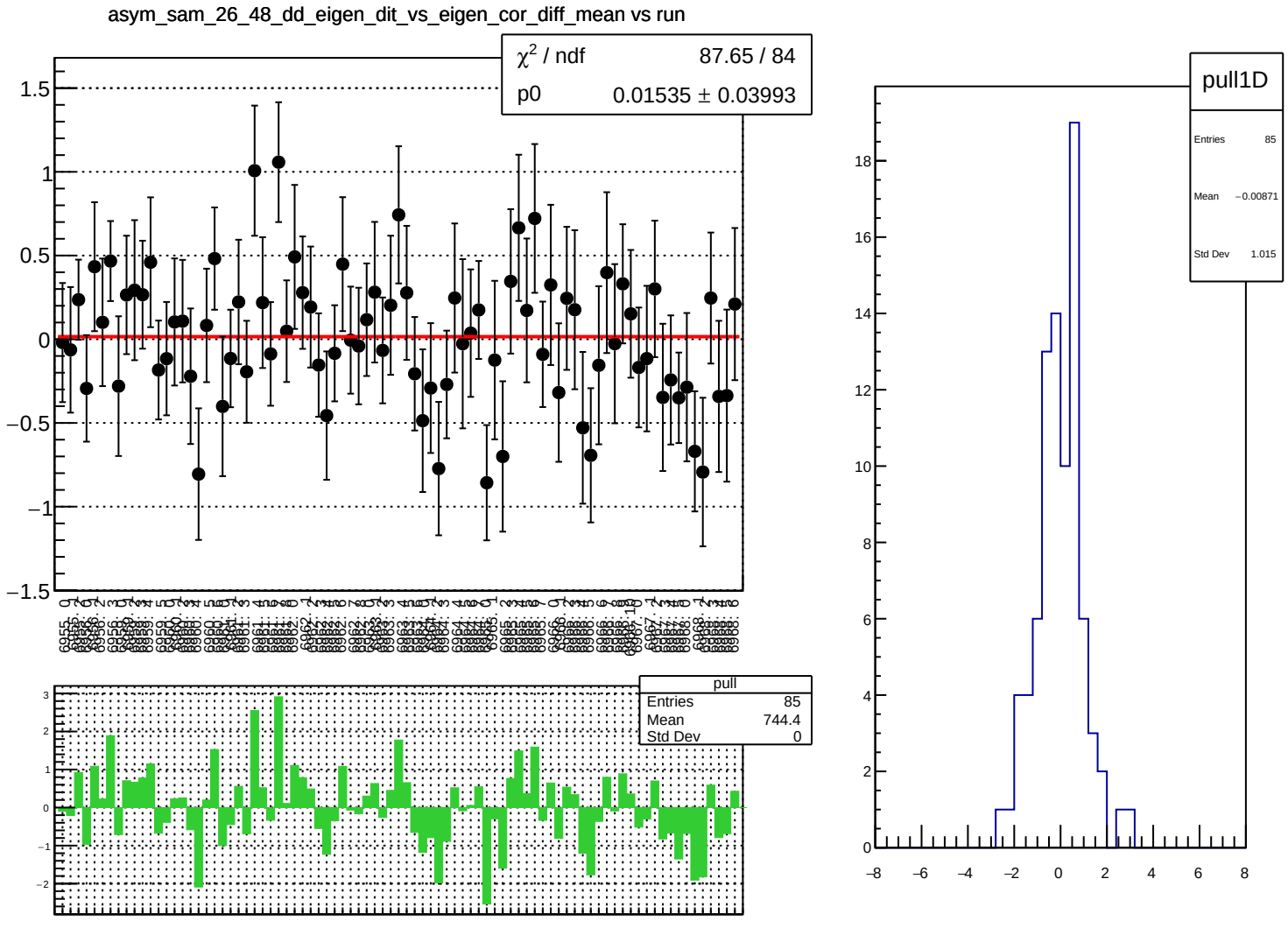

pull1D
Entries 85
Mean 0.01516
Std Dev 0.9939

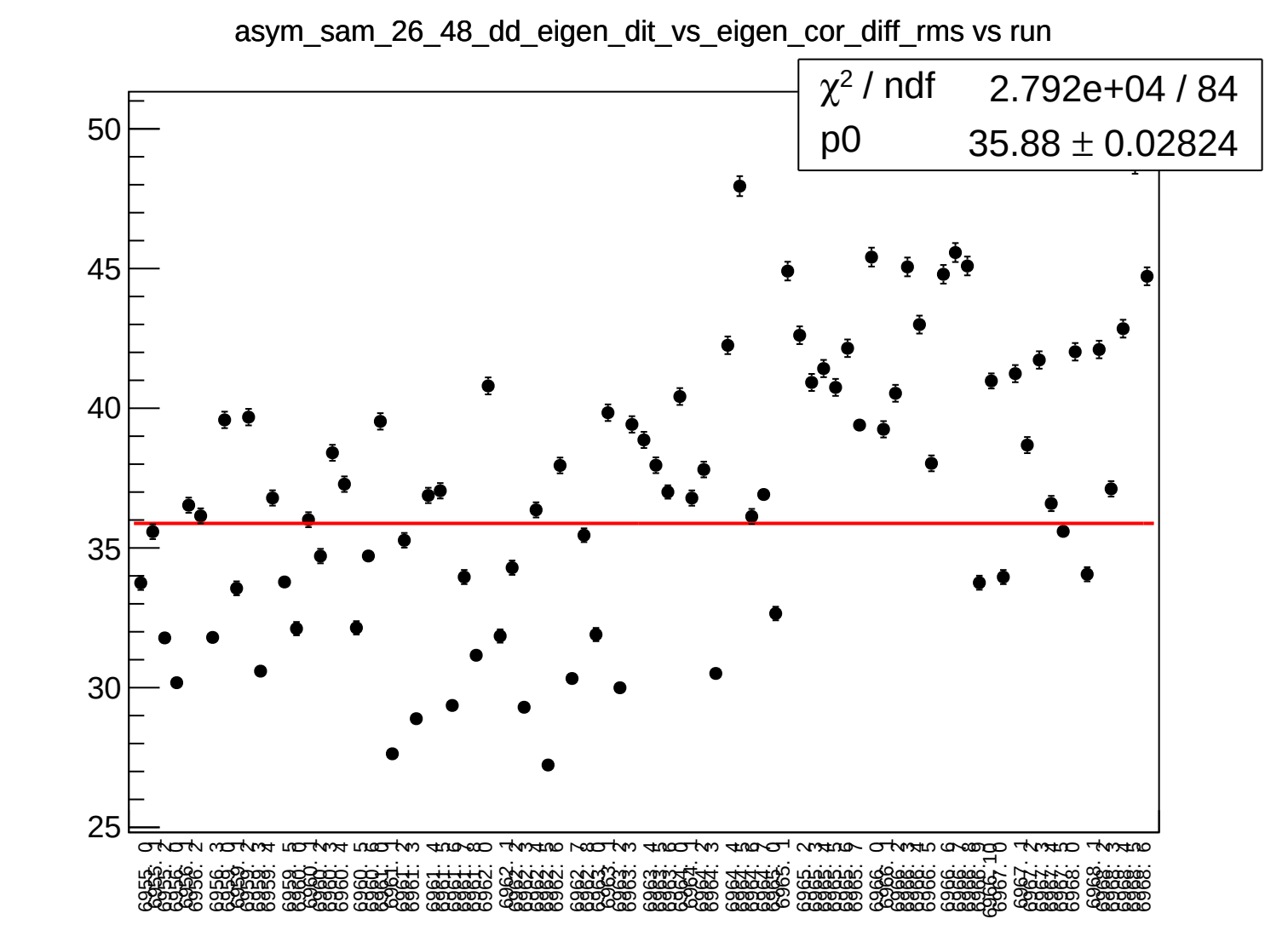

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7490 / 84
p0 0.002325 ± 1.819e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

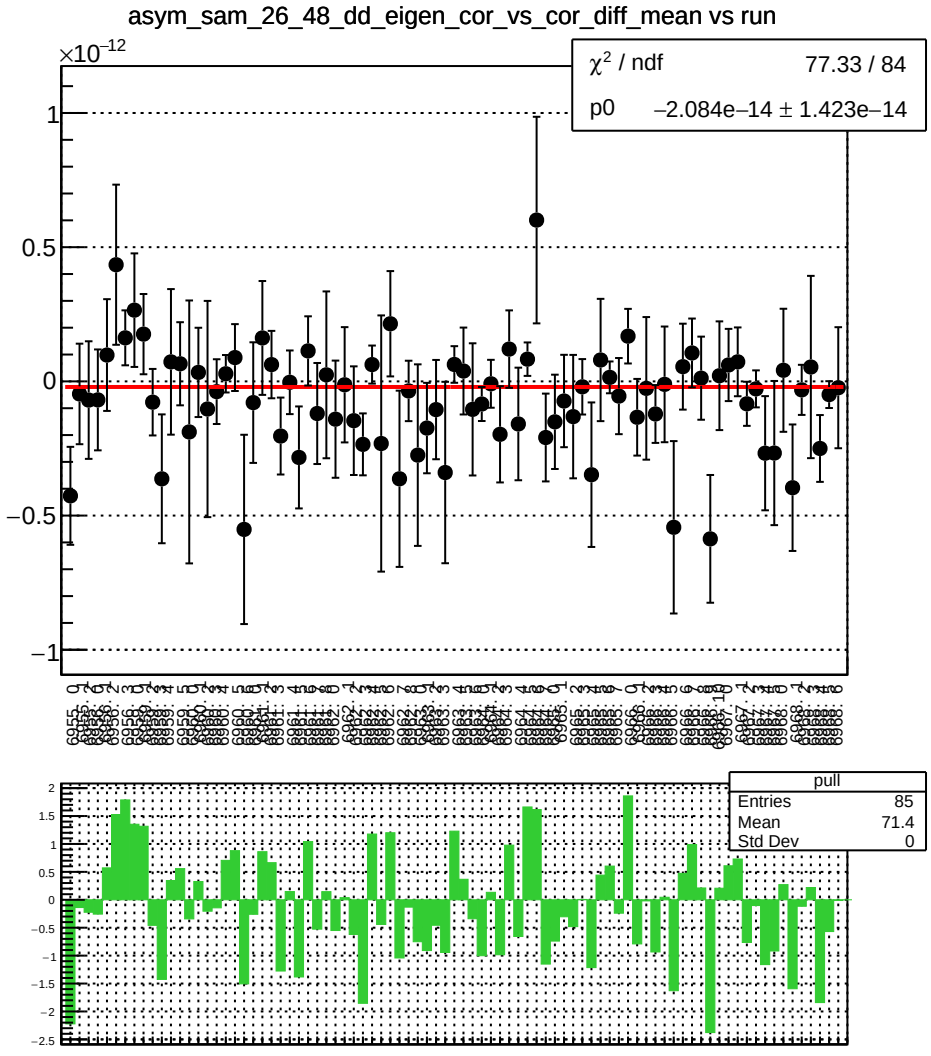

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.65 / 84
p0 0.01535 ± 0.03993
pull
Entries 85
Mean 744.4
Std Dev 0

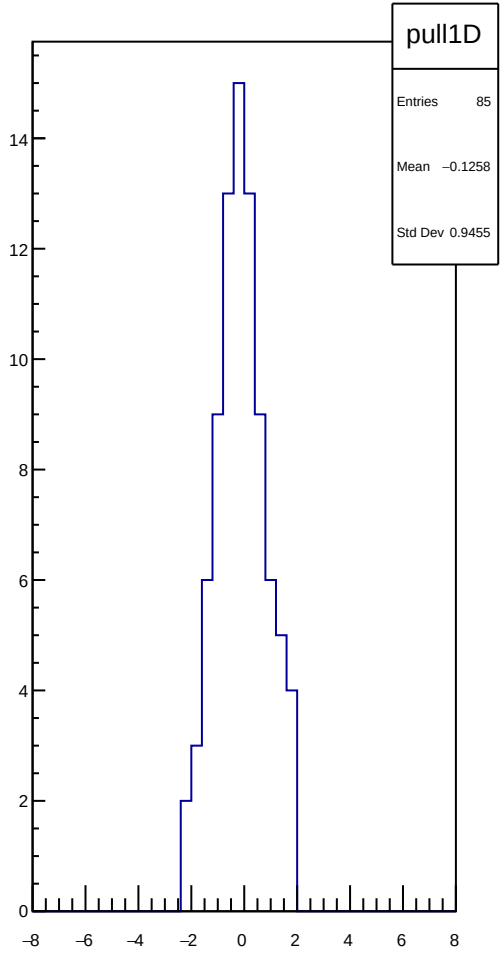

pull1D
Entries 85
Mean −0.00871
Std Dev 1.015

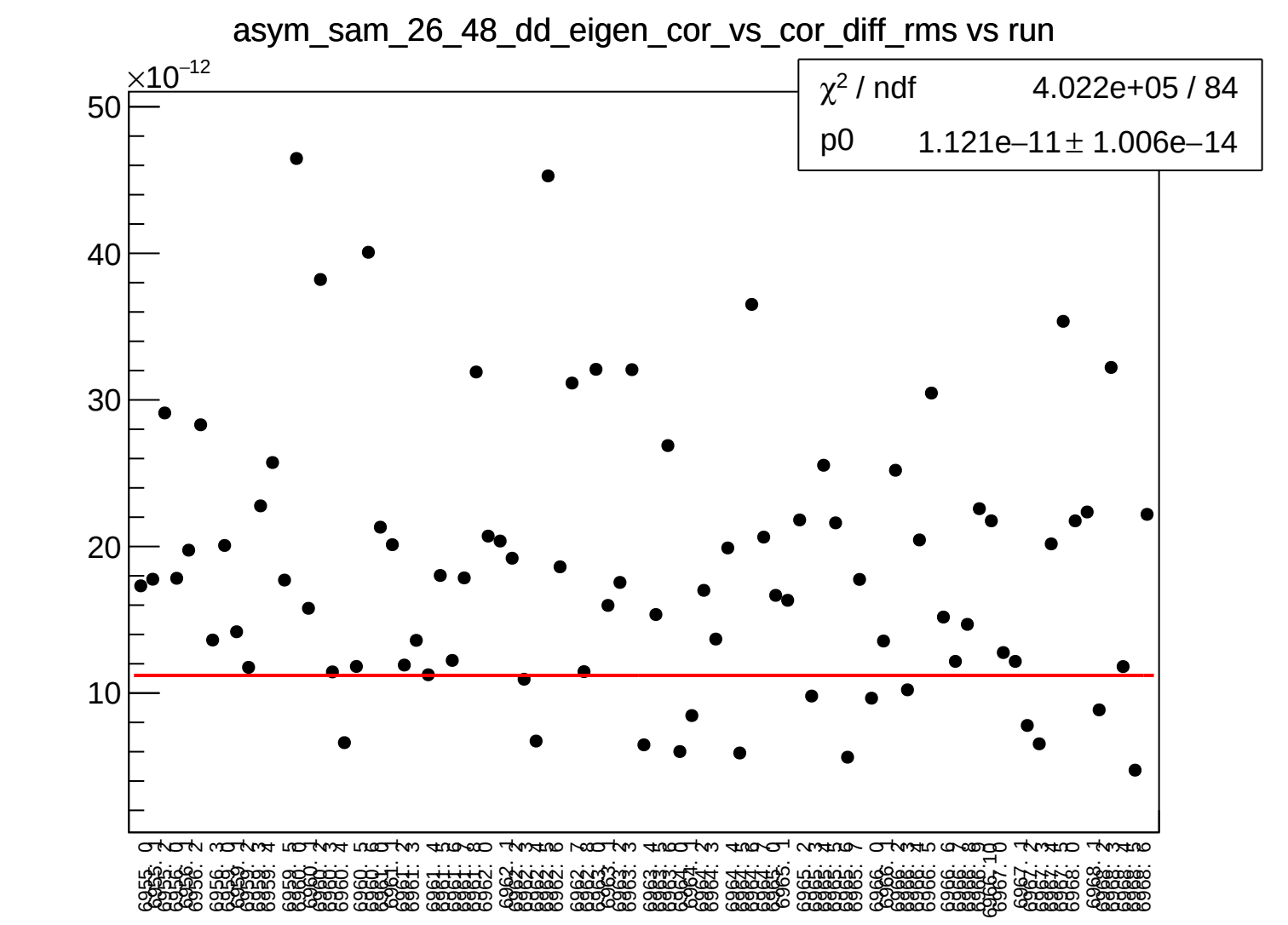

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.792e+04 / 84
p0 35.88 ± 0.02824
50
45
40
35
30
25

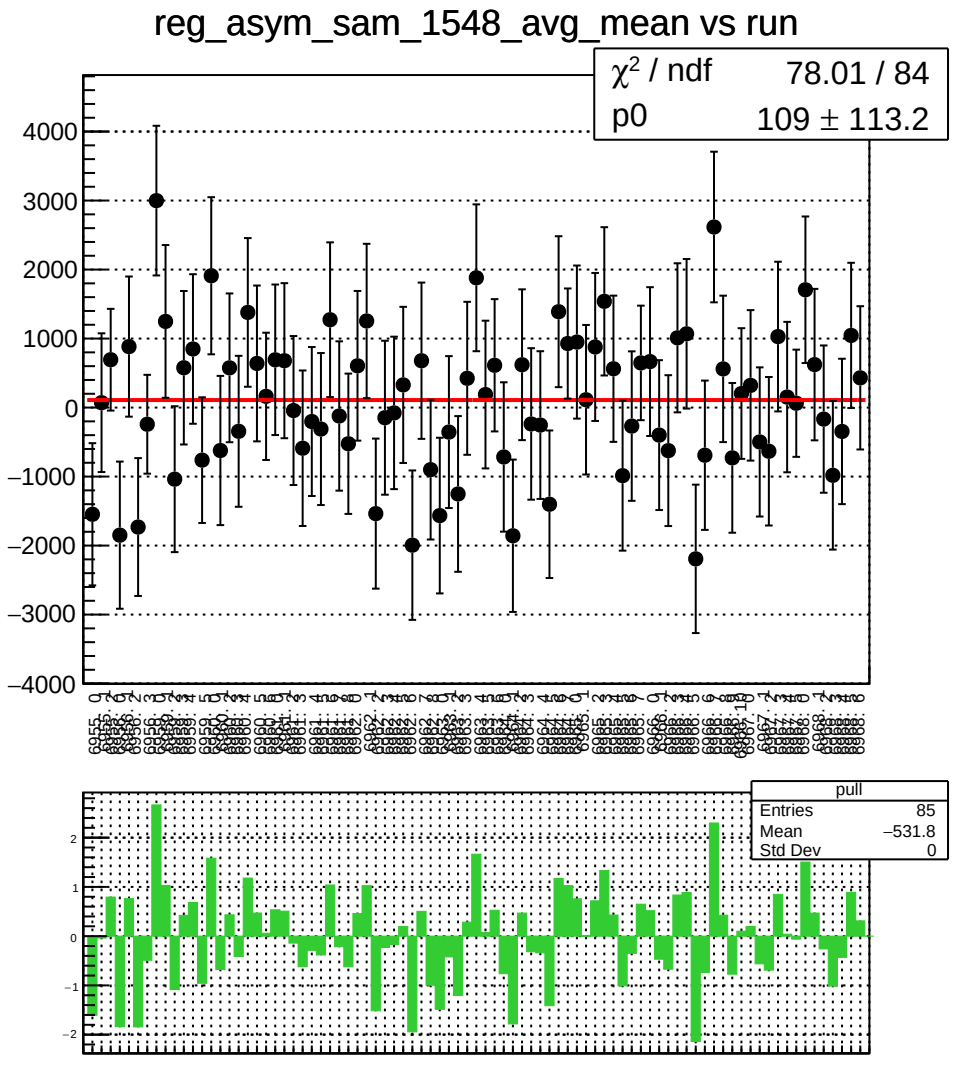

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.65 / 84
p0 0.01535 ± 0.03993
pull
Entries 85
Mean 744.4
Std Dev 0
pull1D
Entries 85
Mean −0.00871
Std Dev 1.015

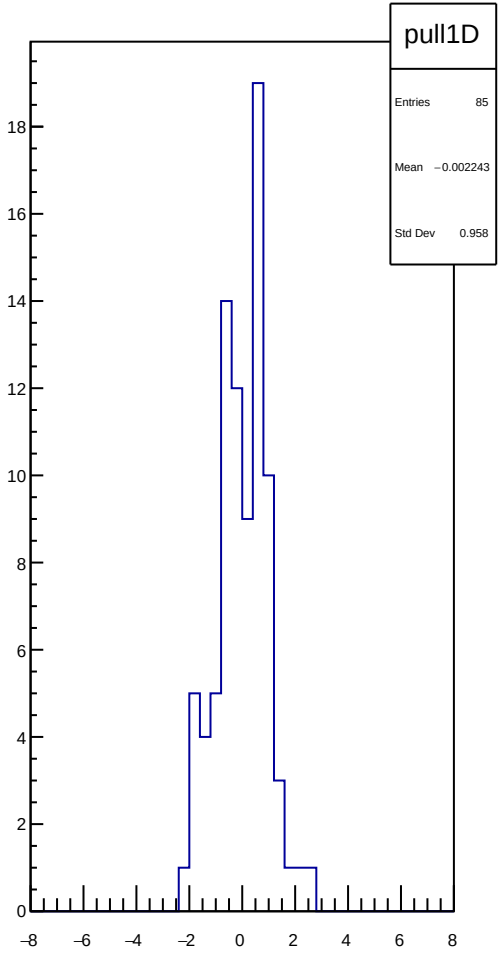

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.792e+04 / 84
p0 35.88 ± 0.02824
50
45
40
35
30
25

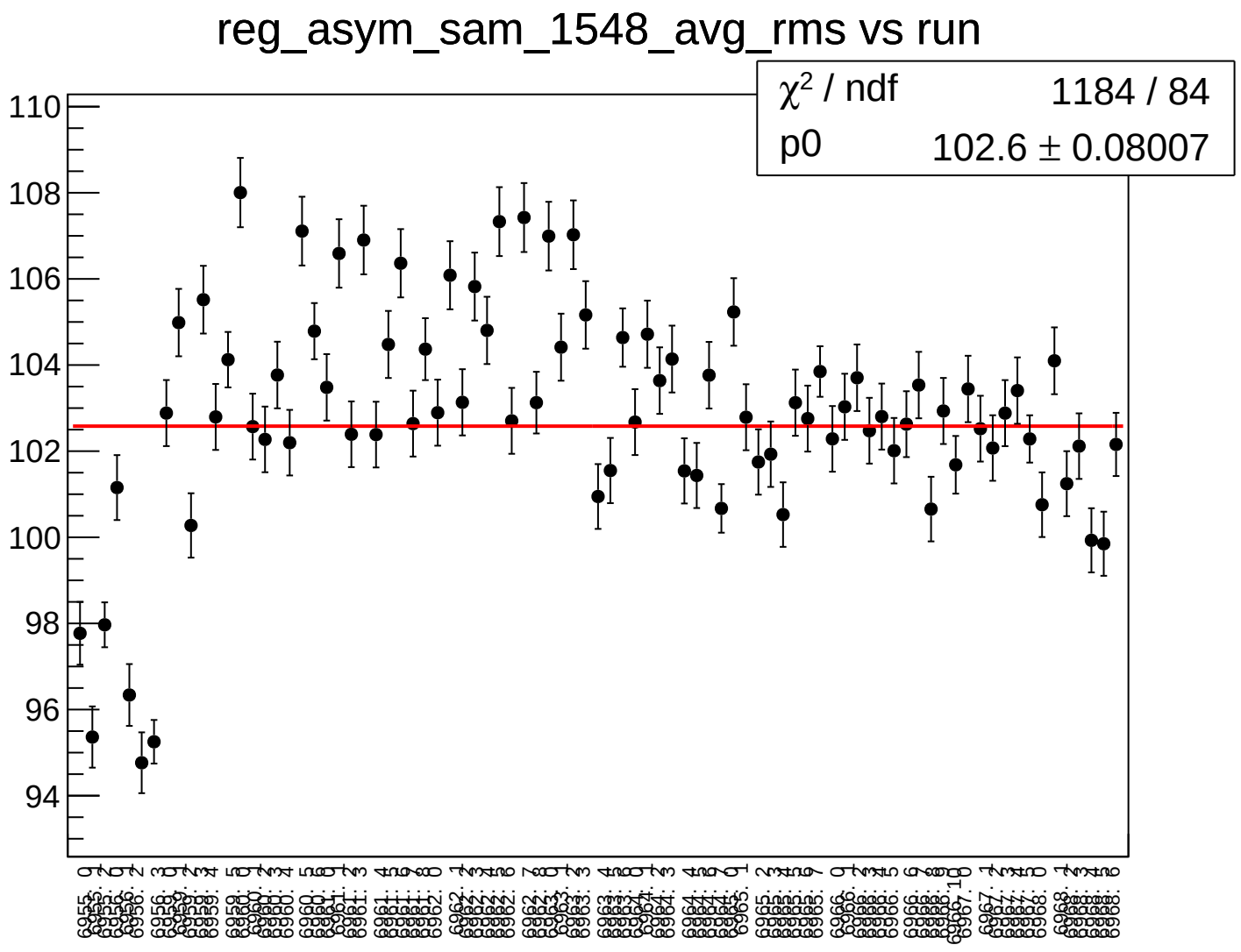

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.33 / 84
p0 −2.084e−14 ± 1.423e−14
pull
Entries 85
Mean 71.4
Std Dev 0

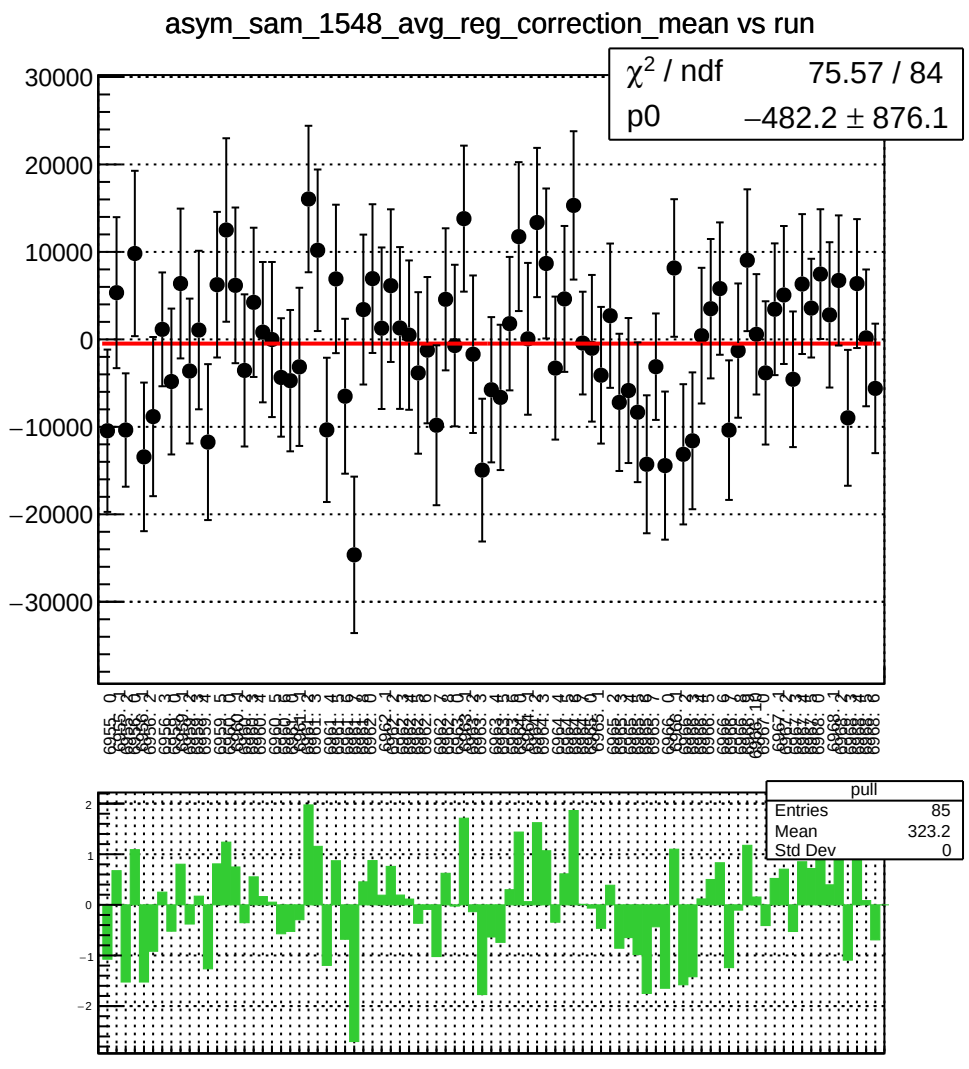

pull1D
Entries 85
Mean −0.1258
Std Dev 0.9455

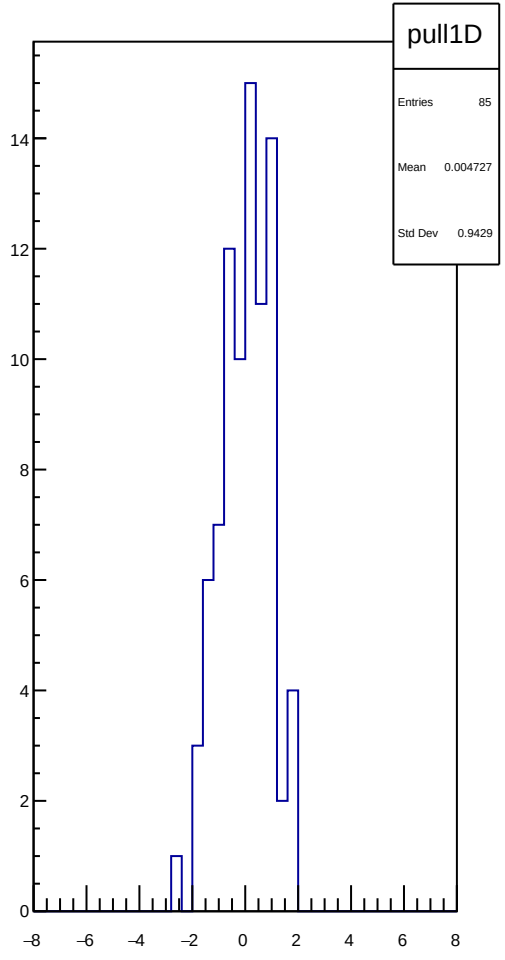

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
50
40
30
20
10
χ² / ndf 4.022e+05 / 84
p0 1.121e−11 ± 1.006e−14

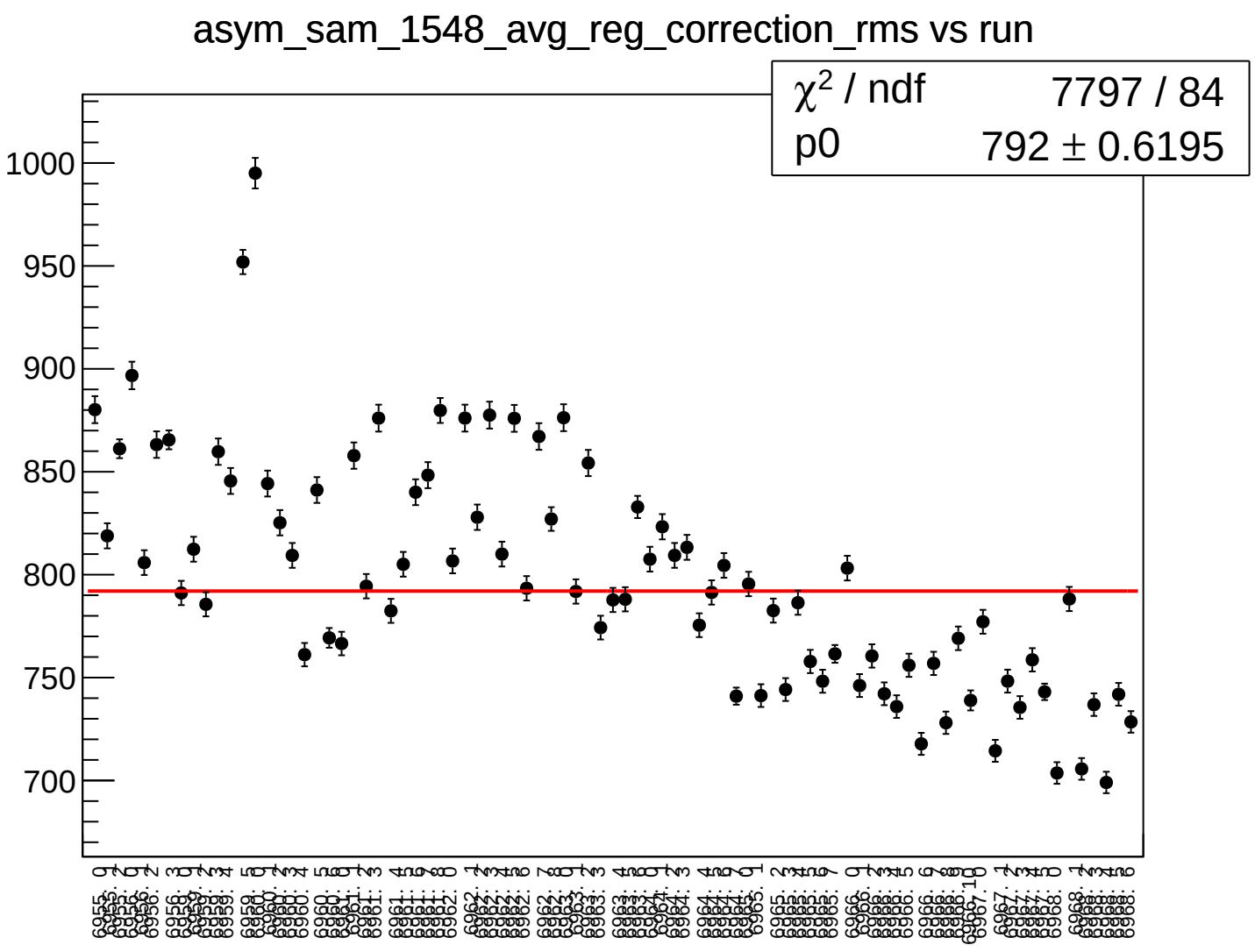

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 78.01 / 84
p0 109 ± 113.2
pull
Entries 85
Mean −531.8
Std Dev 0

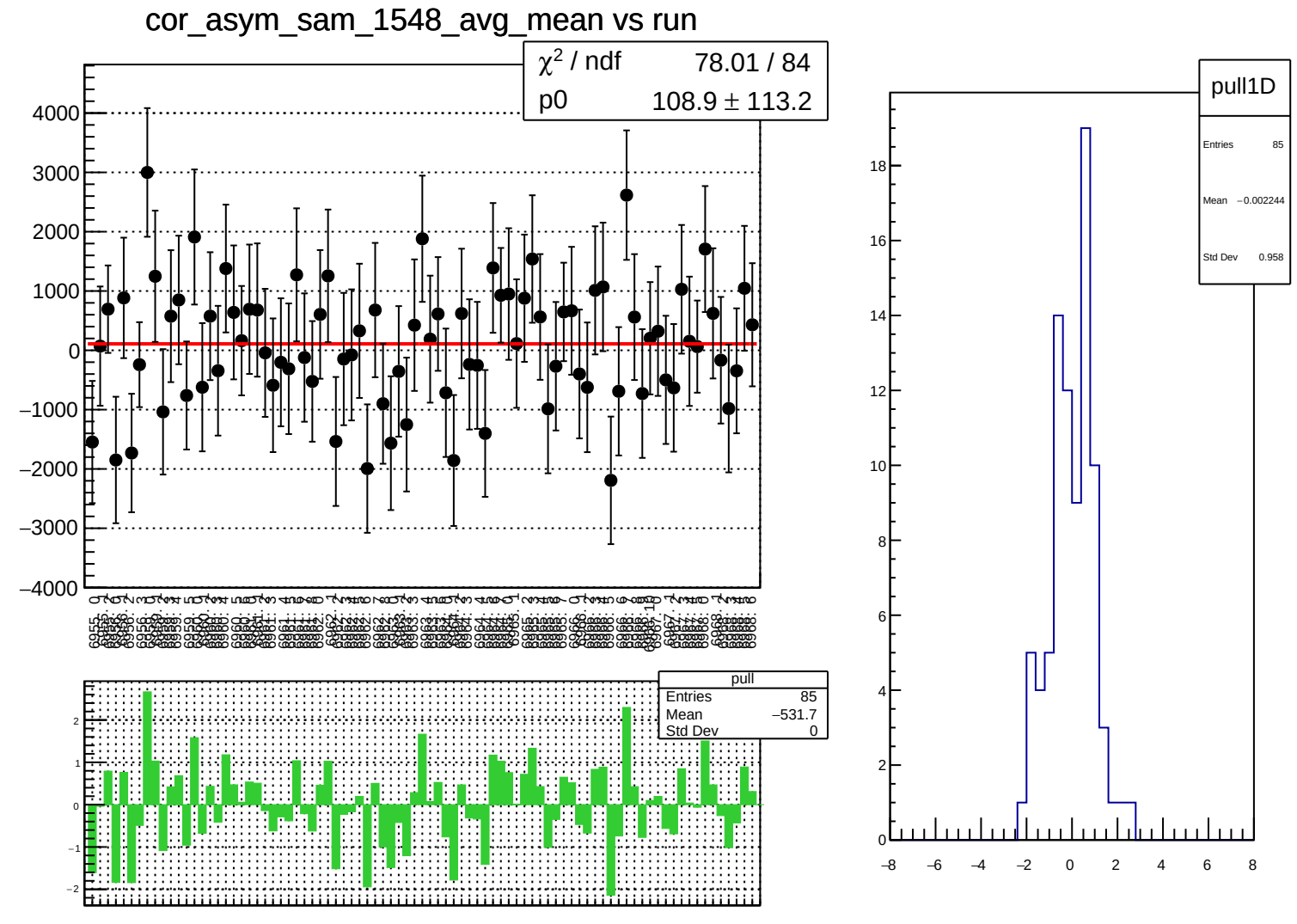

pull1D
Entries 85
Mean −0.002243
Std Dev 0.958

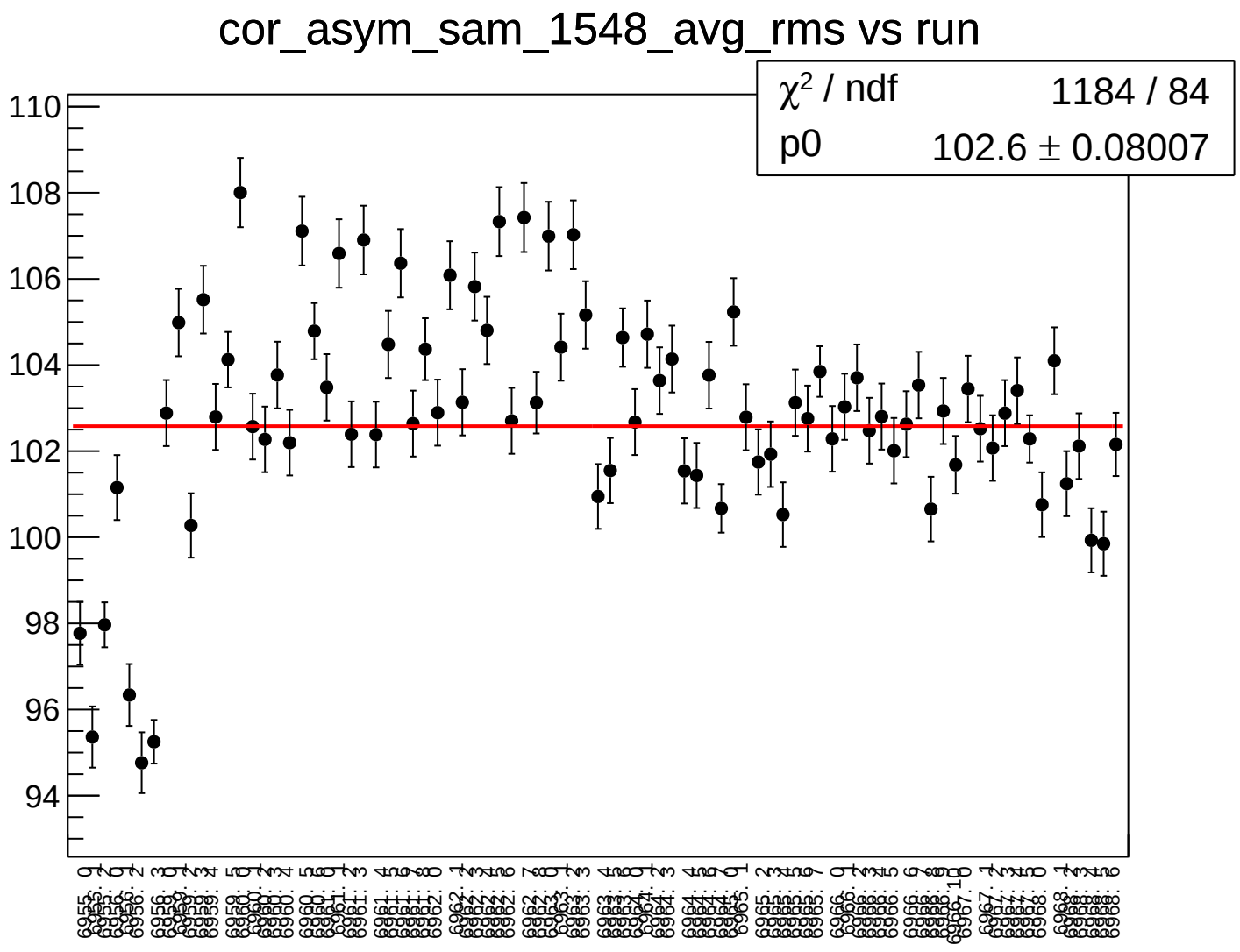

reg_asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 1184 / 84
p0 102.6 ± 0.08007
110
108
106
104
102
100
98
96
94

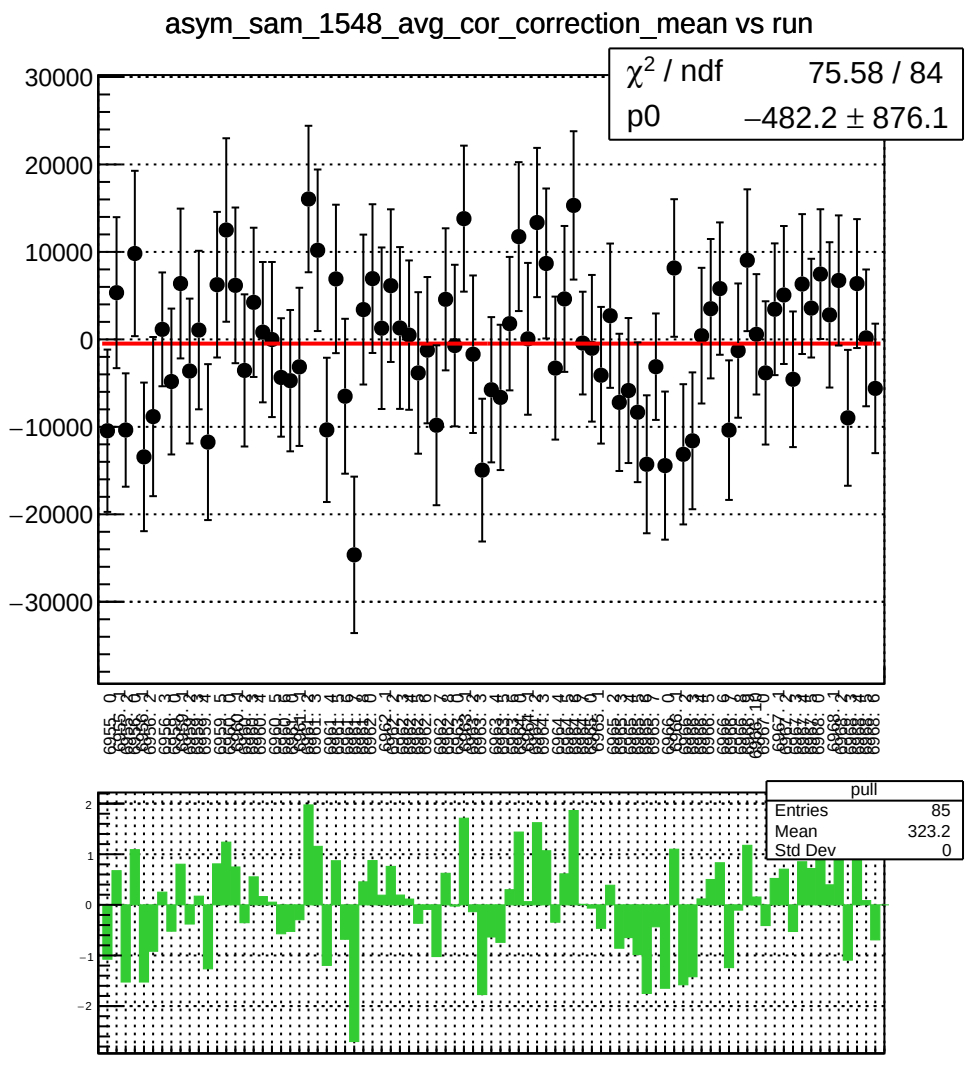

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 75.57 / 84
p0 −482.2 ± 876.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 323.2
Std Dev 0
2
1
0
−1
−2

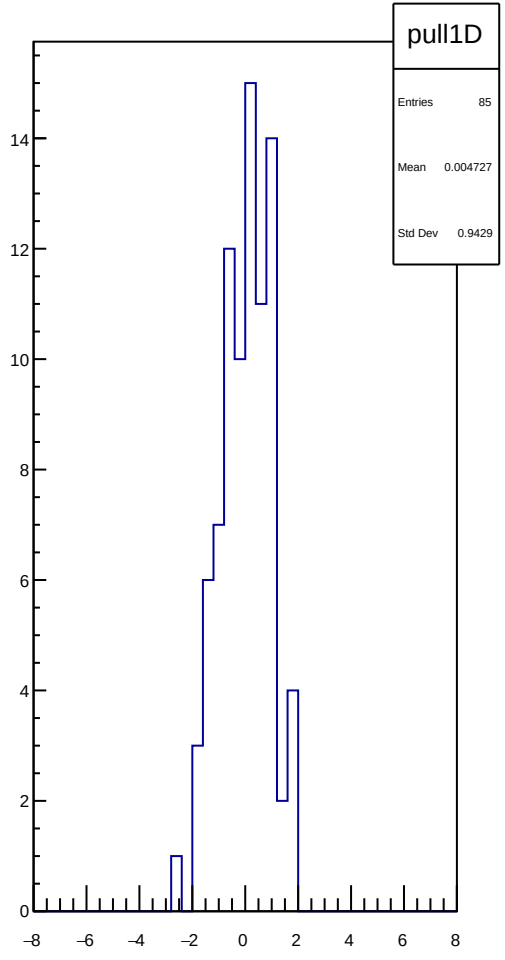

pull1D
Entries 85
Mean 0.004727
Std Dev 0.9429
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

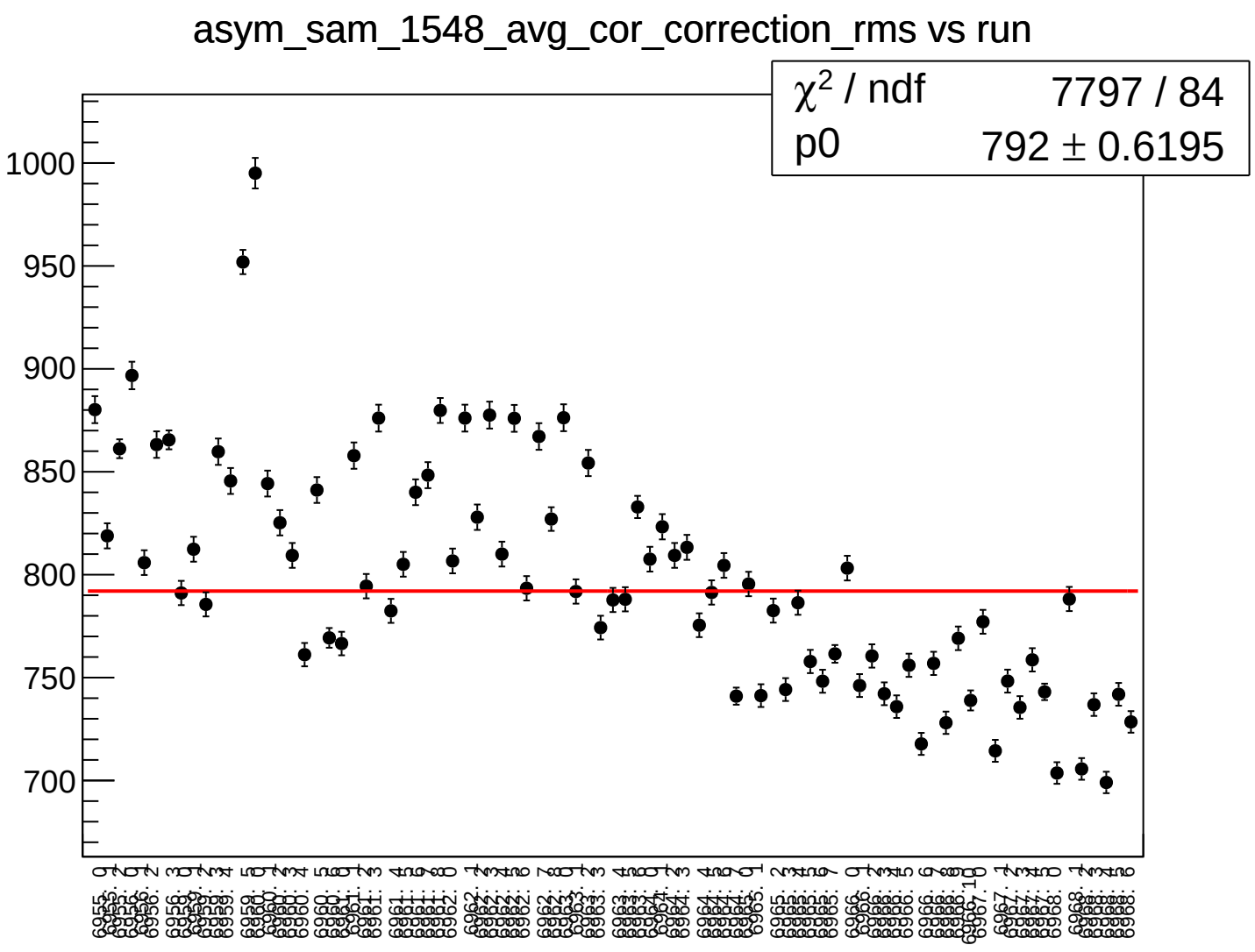

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 7797 / 84
p0 792 ± 0.6195
1000
950
900
850
800
750
700

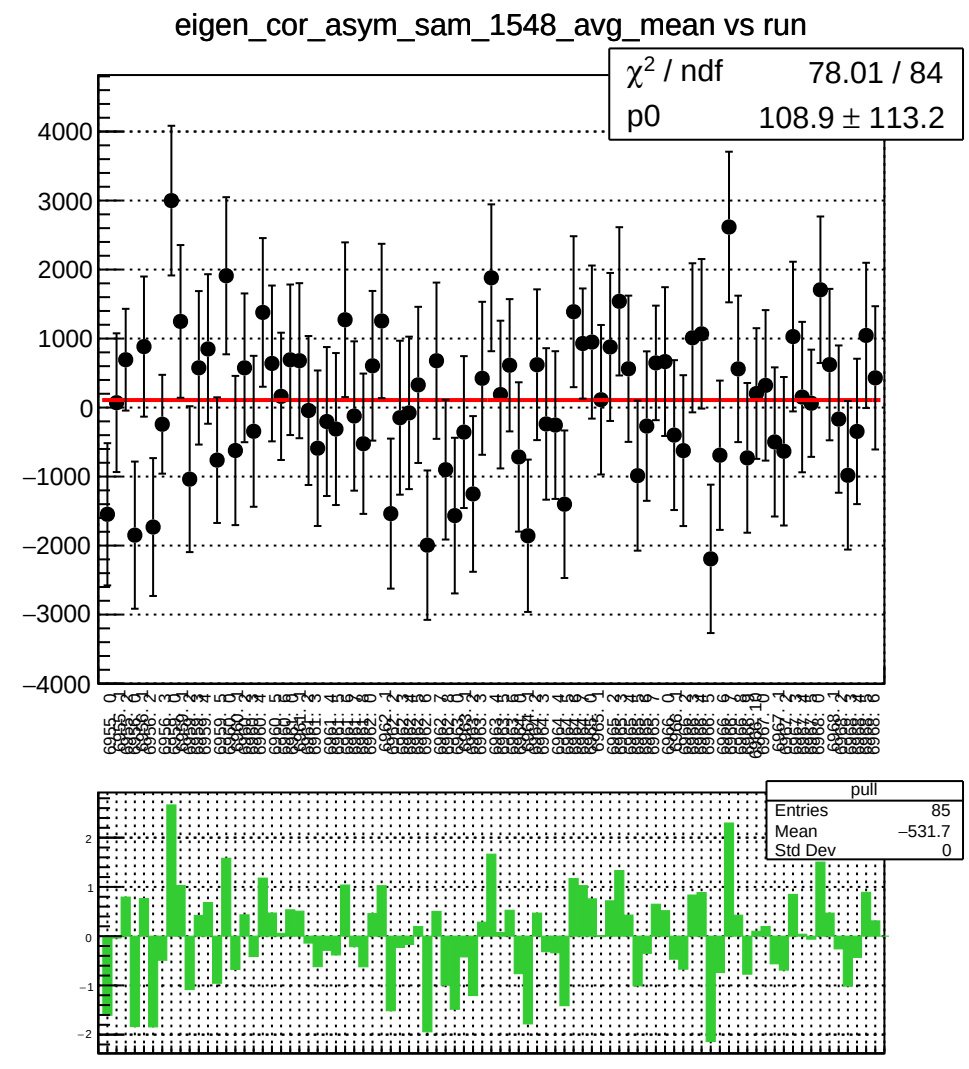

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 78.01 / 84
p0 108.9 ± 113.2
pull
Entries 85
Mean −531.7
Std Dev 0
pull1D
Entries 85
Mean −0.002244
Std Dev 0.958

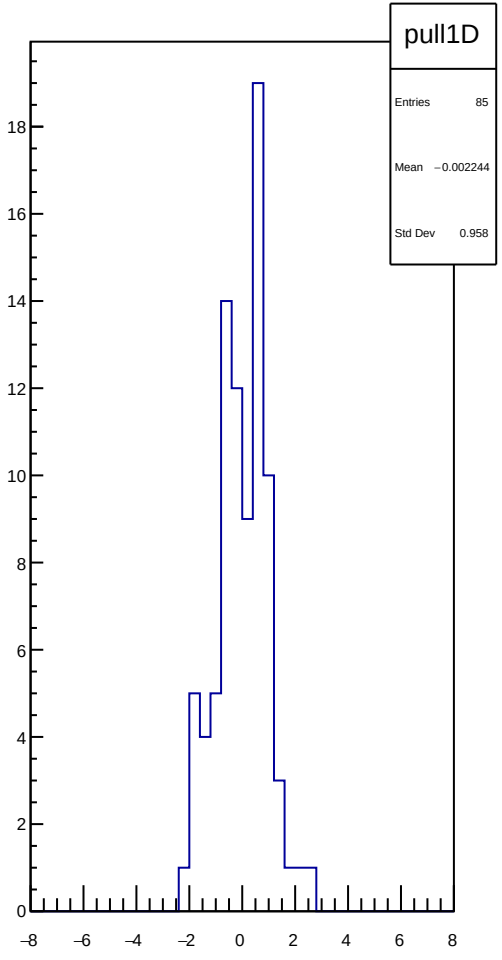

cor_asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 1184 / 84
p0 102.6 ± 0.08007
110
108
106
104
102
100
98
96
94

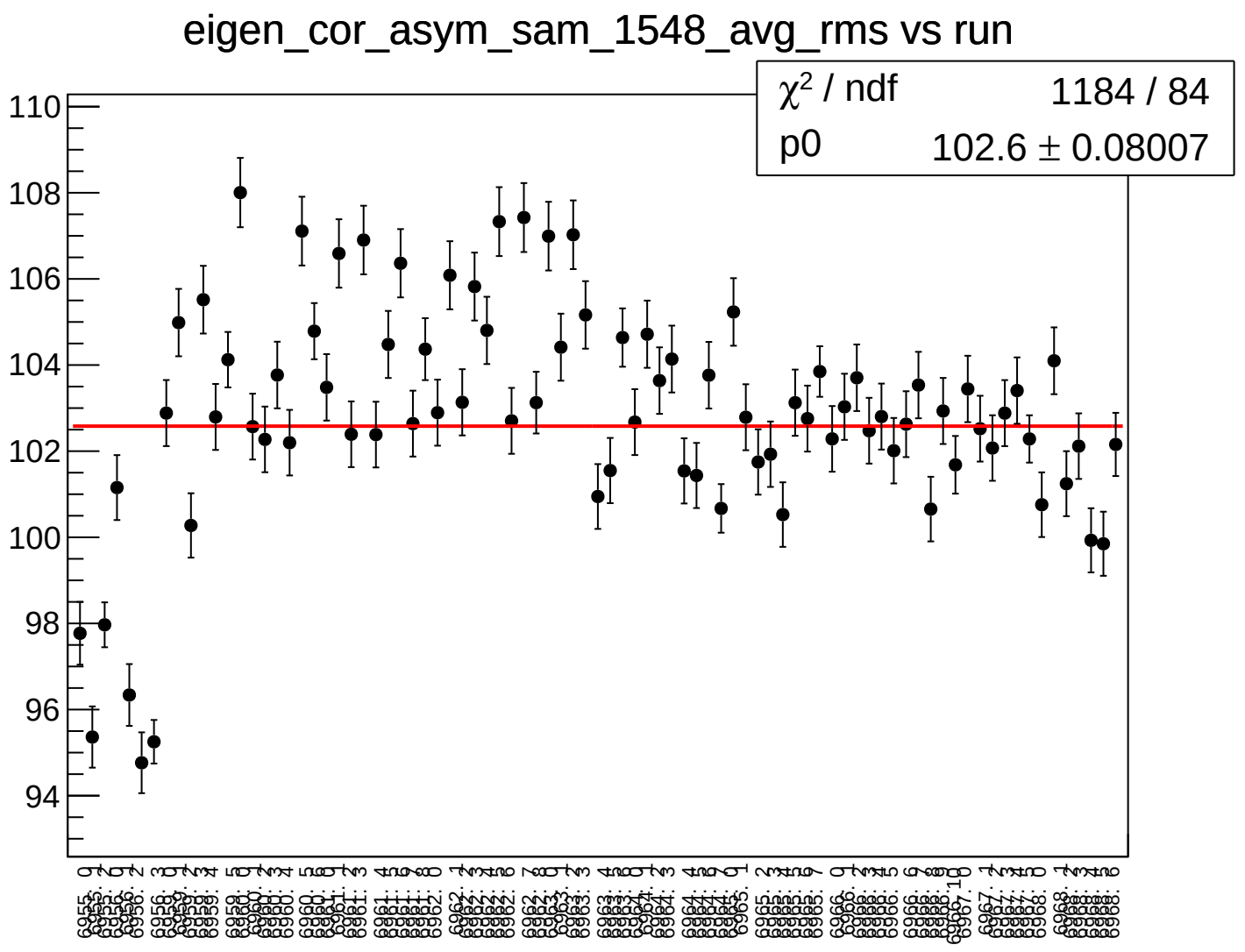

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 75.58 / 84
p0 −482.2 ± 876.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 323.2
Std Dev 0
2
1
0
−1
−2

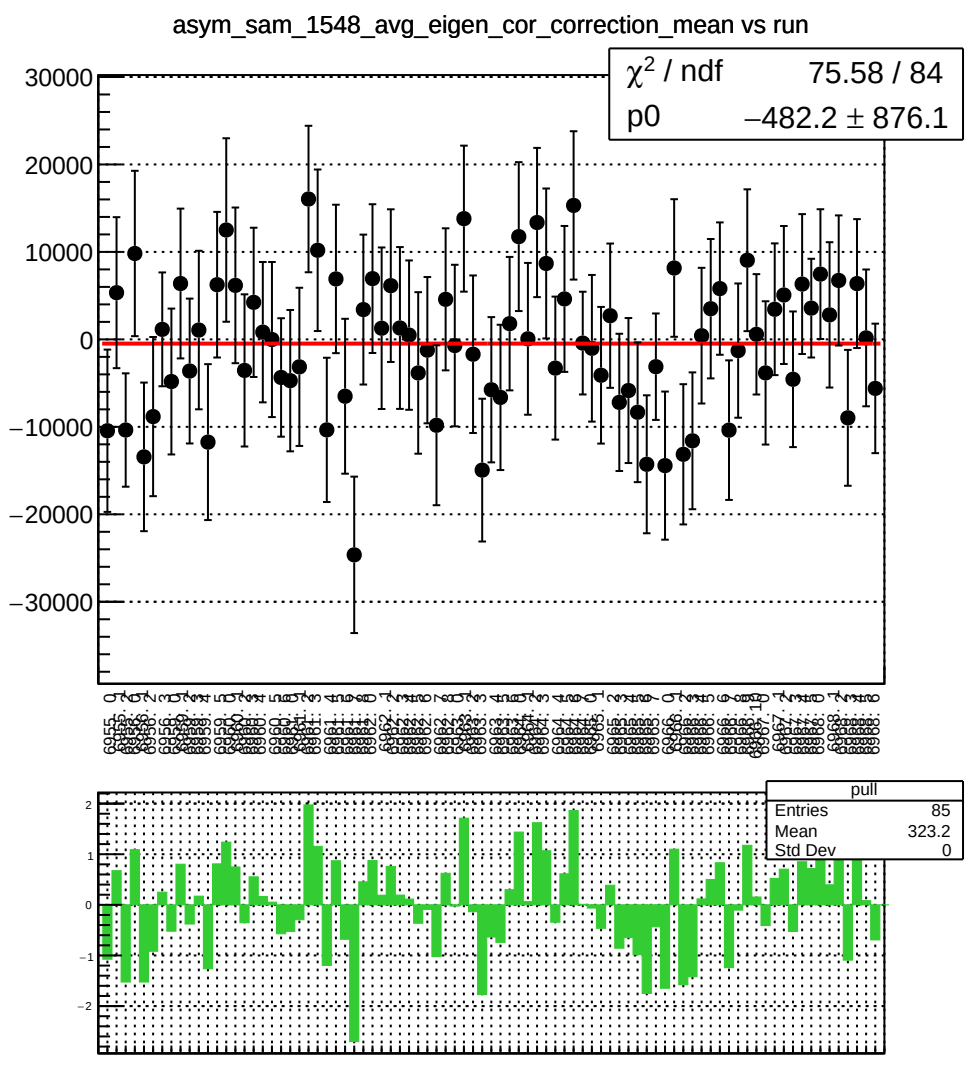

pull1D
Entries 85
Mean 0.004727
Std Dev 0.9429
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

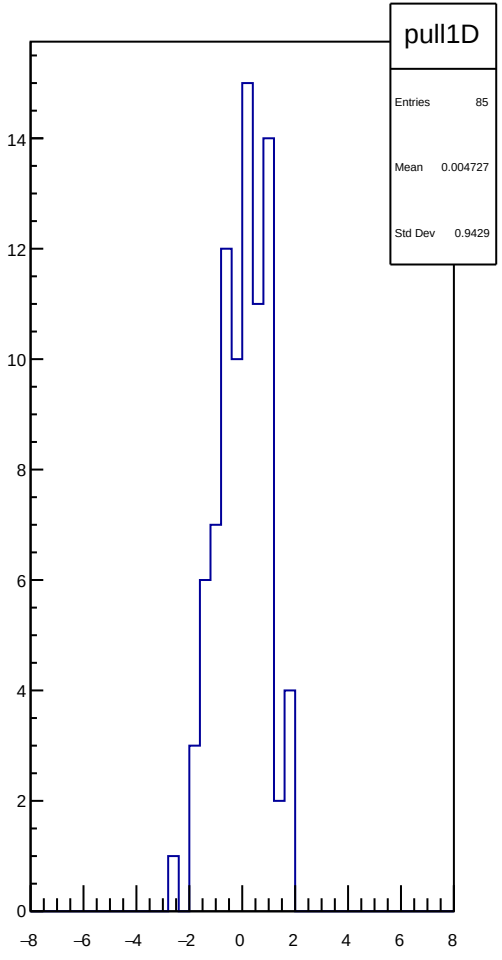

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 7797 / 84
p0 792 ± 0.6195
1000
950
900
850
800
750
700

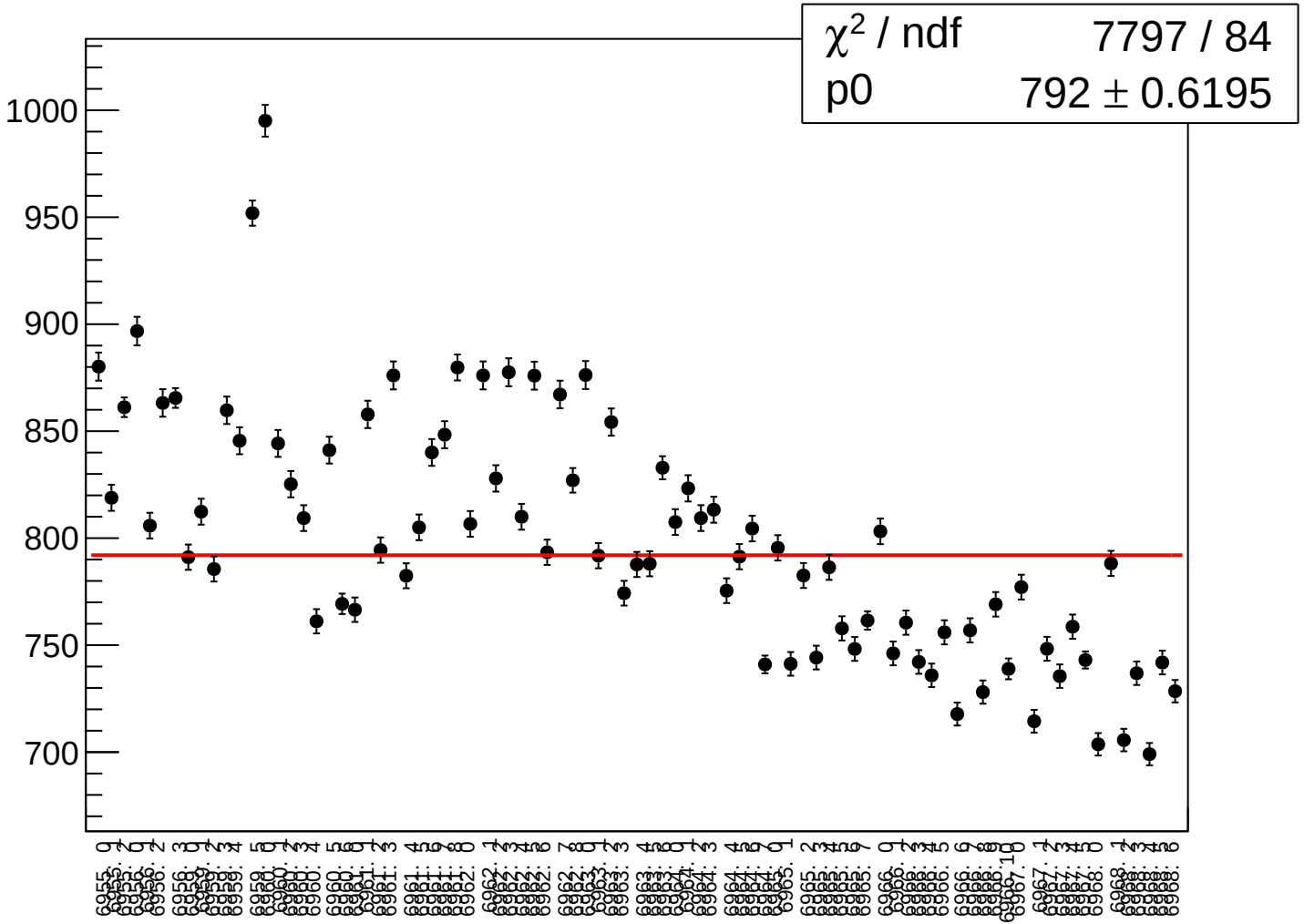

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 78.01 / 84
p0 108.9 ± 113.2
pull
Entries 85
Mean −531.7
Std Dev 0

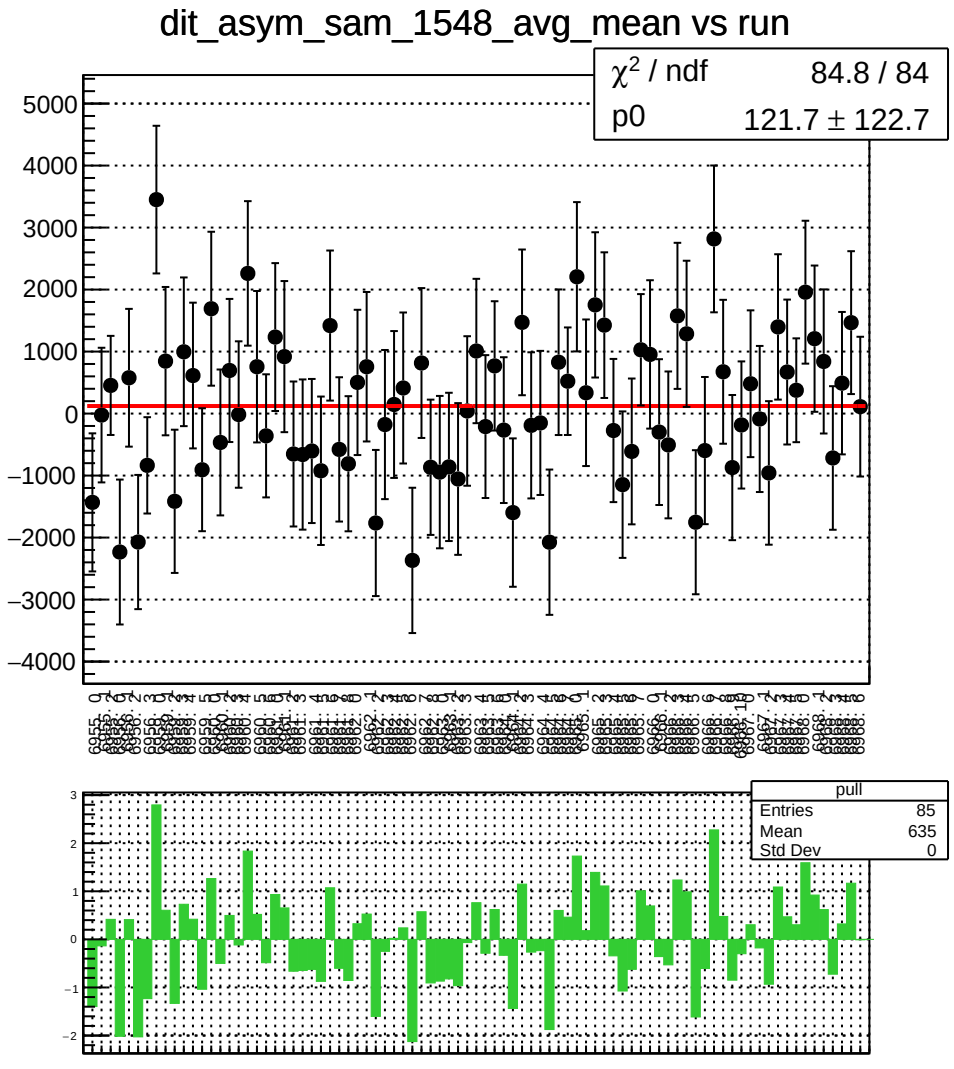

pull1D
Entries 85
Mean −0.002244
Std Dev 0.958

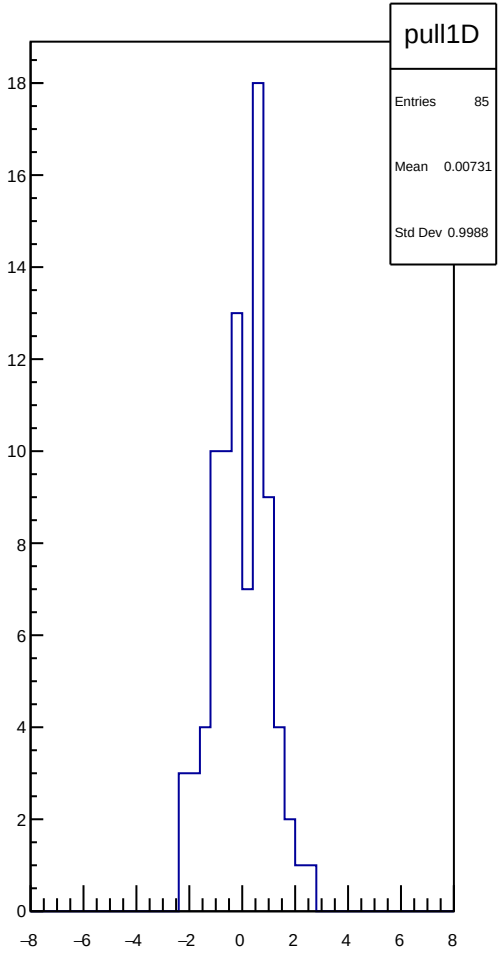

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1184 / 84
p0 102.6 ± 0.08007
110
108
106
104
102
100
98
96
94

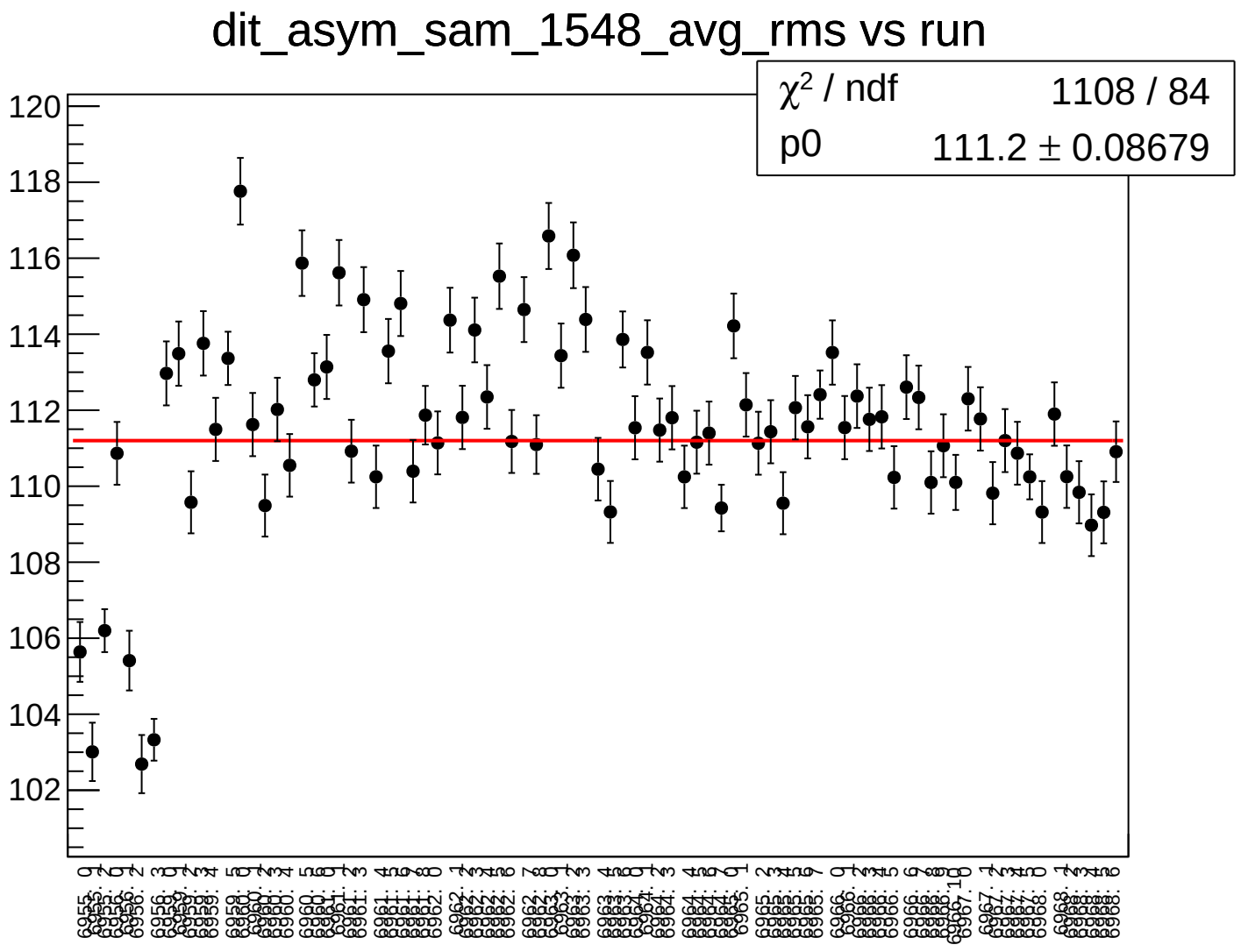

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.58 / 84
p0 −482.2 ± 876.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 323.2
Std Dev 0
2
1
0
−1
−2

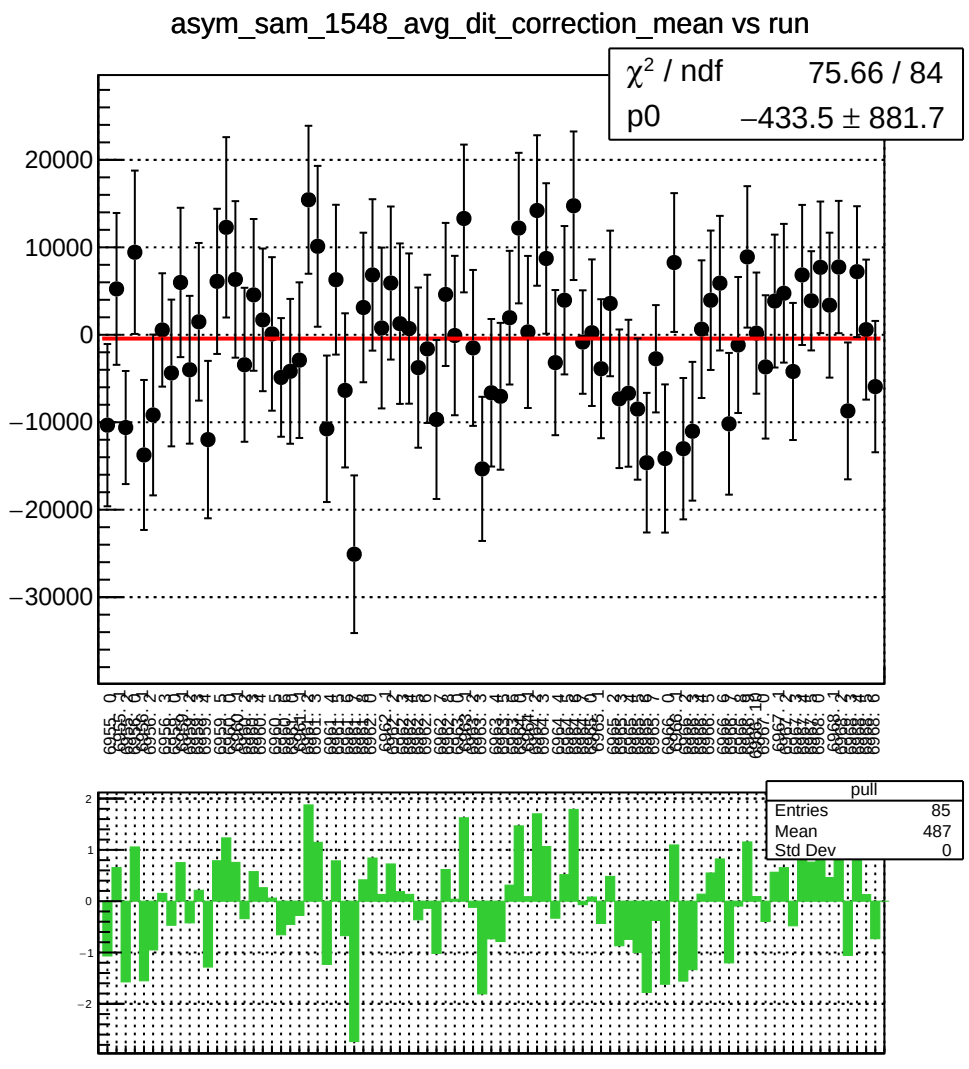

pull1D
Entries 85
Mean 0.004727
Std Dev 0.9429
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

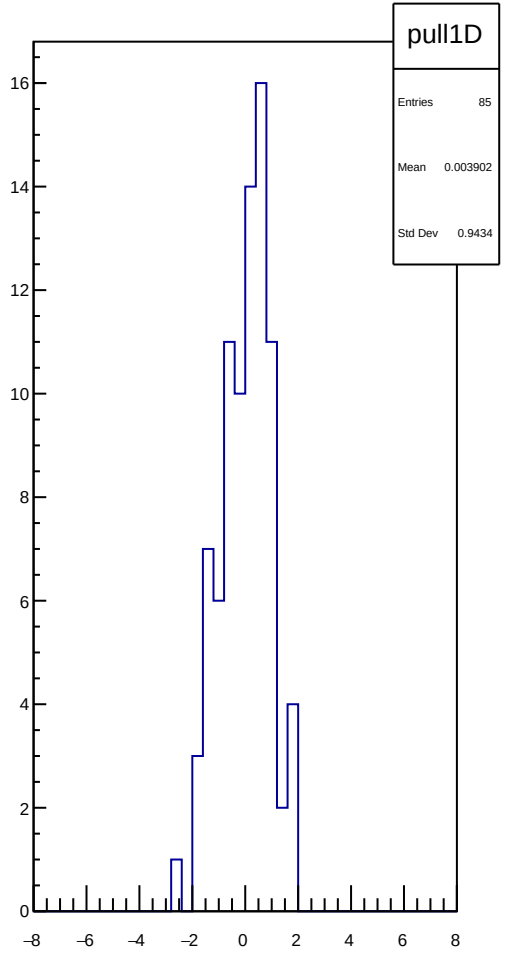

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 7797 / 84
p0 792 ± 0.6195
1000
950
900
850
800
750
700

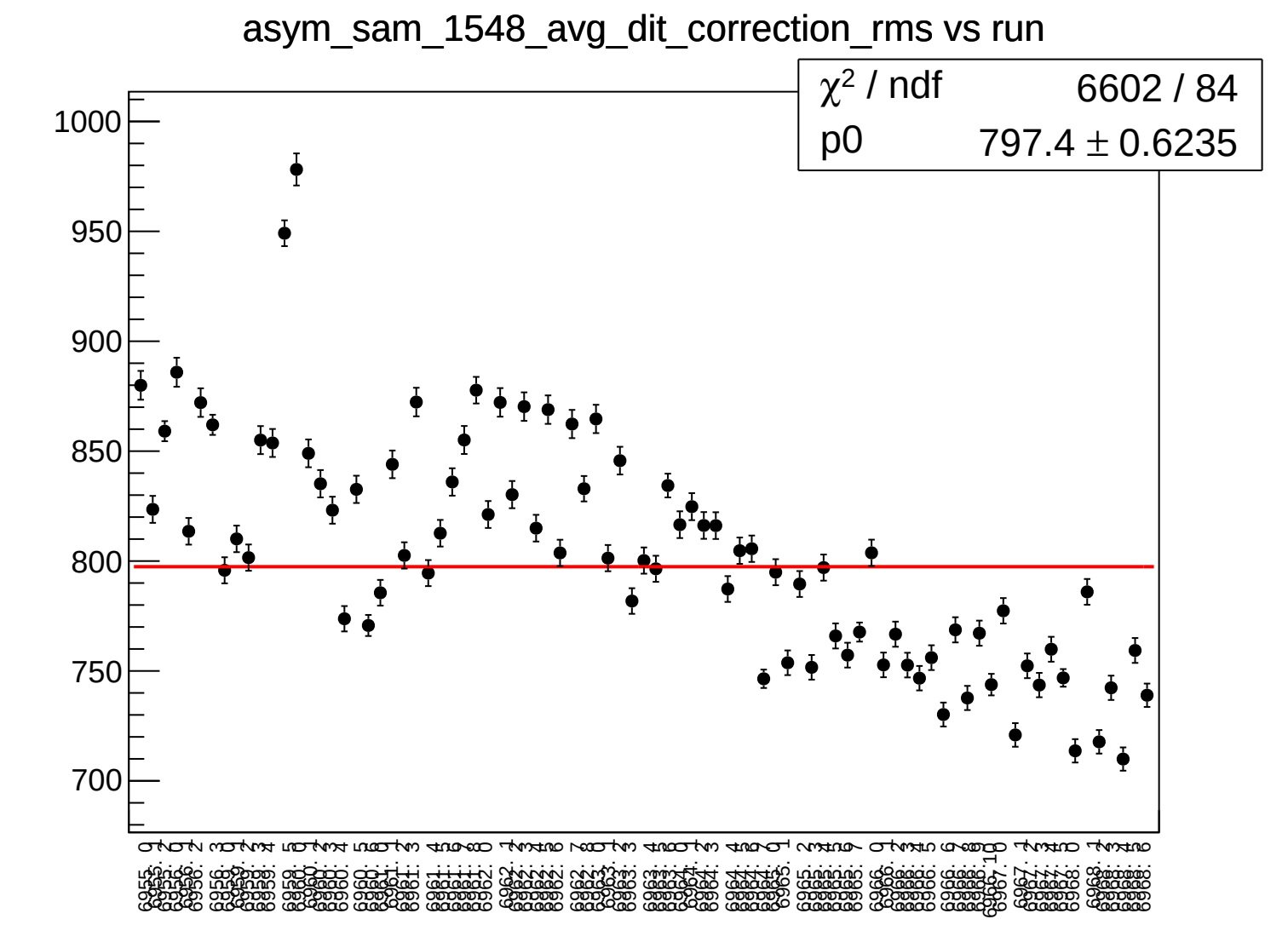

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 84.8 / 84
p0 121.7 ± 122.7
pull
Entries 85
Mean 635
Std Dev 0

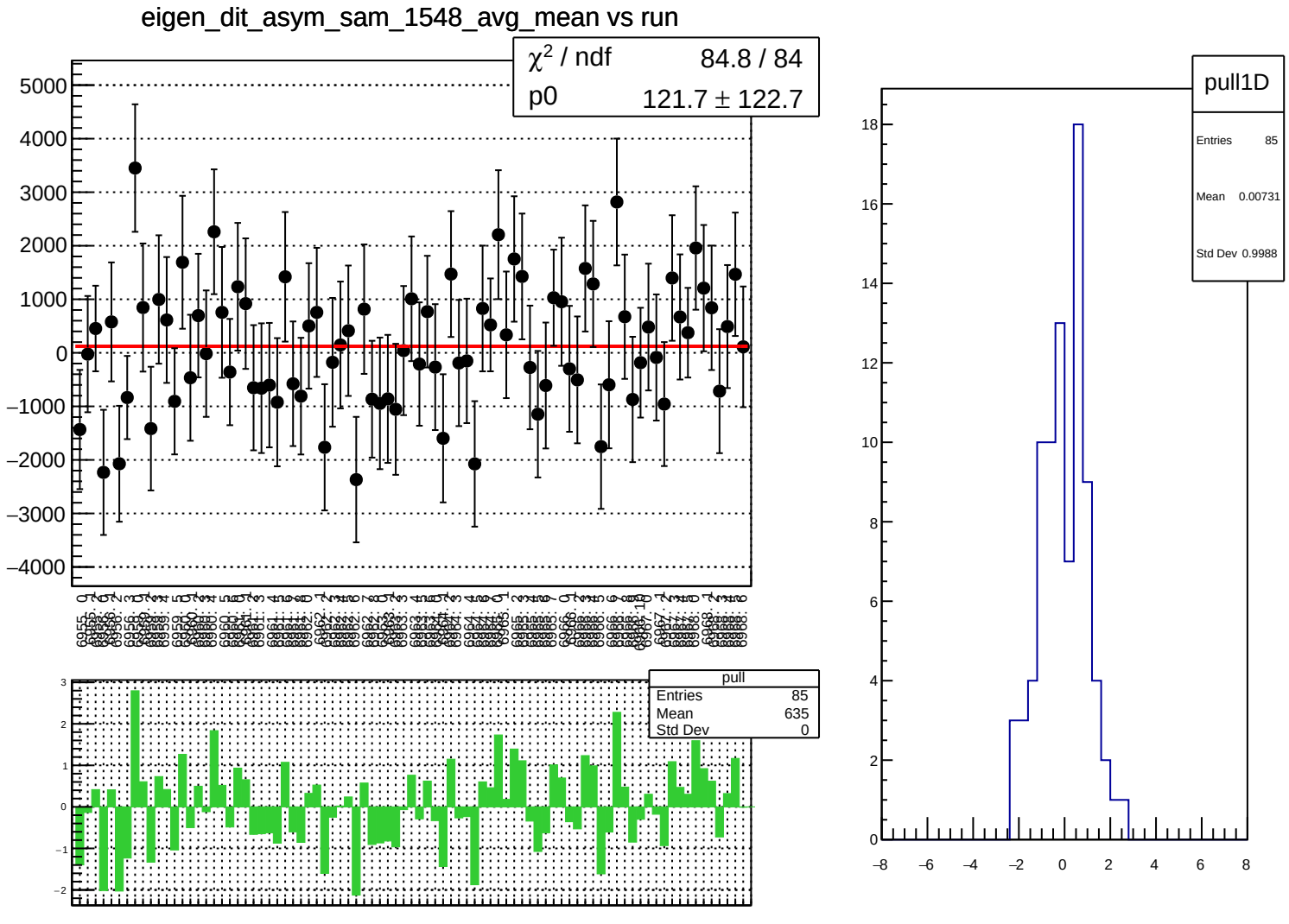

pull1D
Entries 85
Mean 0.00731
Std Dev 0.9988

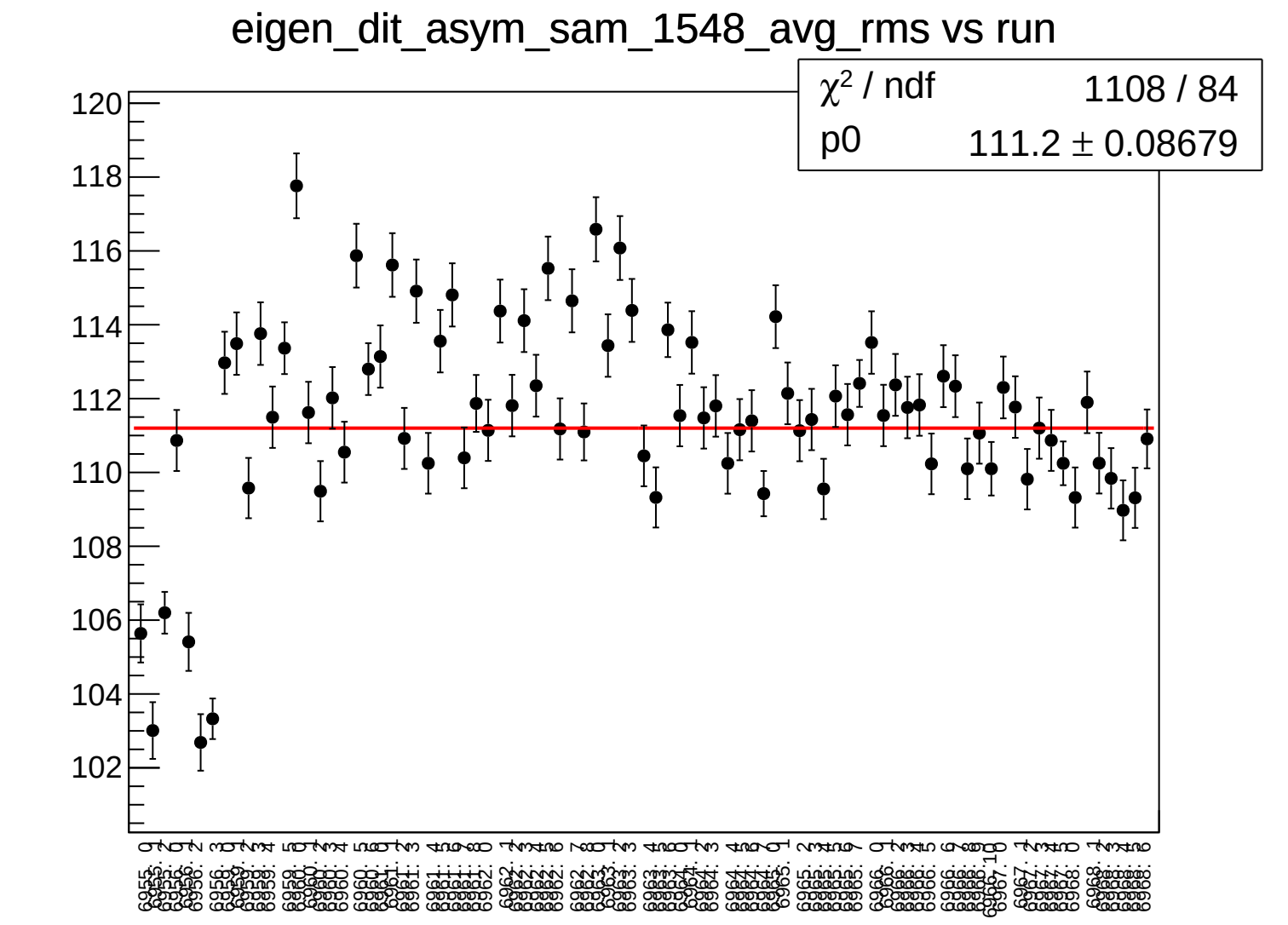

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1108 / 84
p0 111.2 ± 0.08679
120
118
116
114
112
110
108
106
104
102

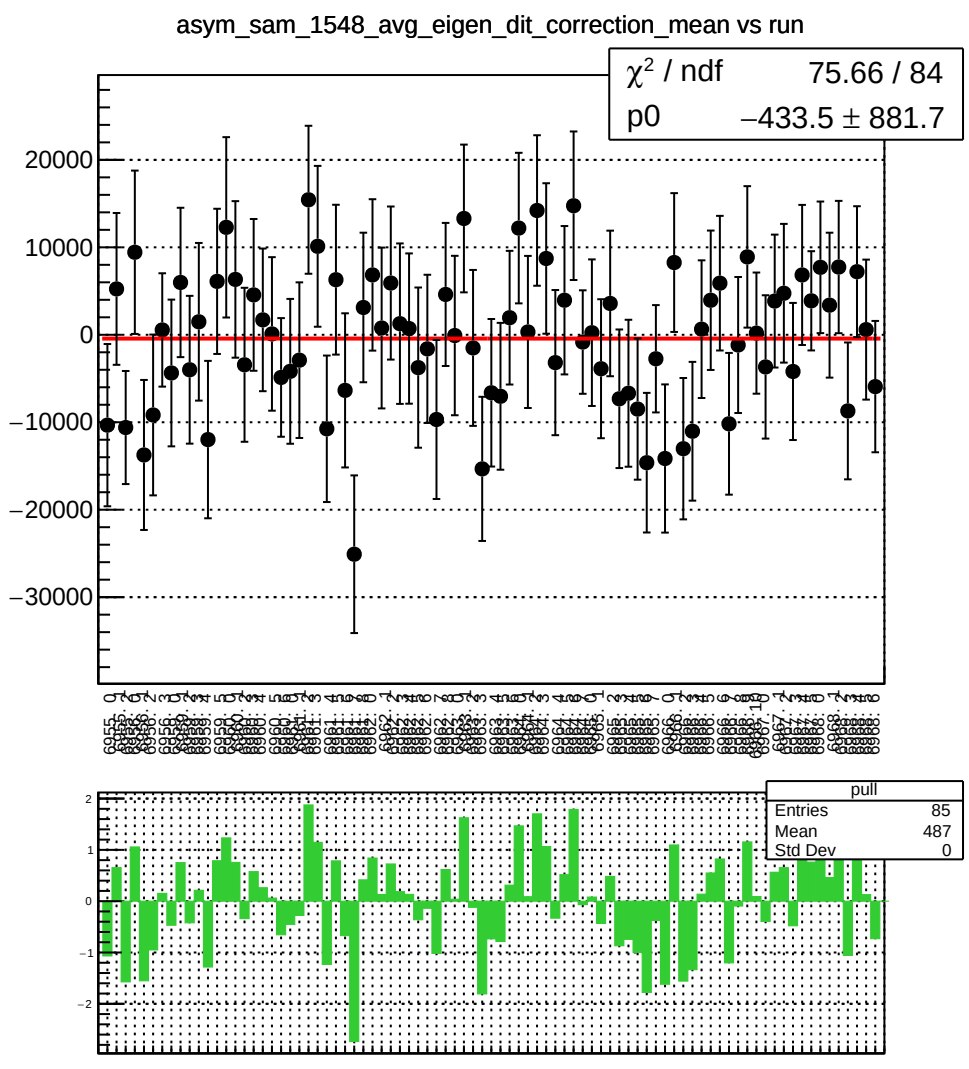

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 75.66 / 84
p0 −433.5 ± 881.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 487
Std Dev 0
2
1
0
−1
−2

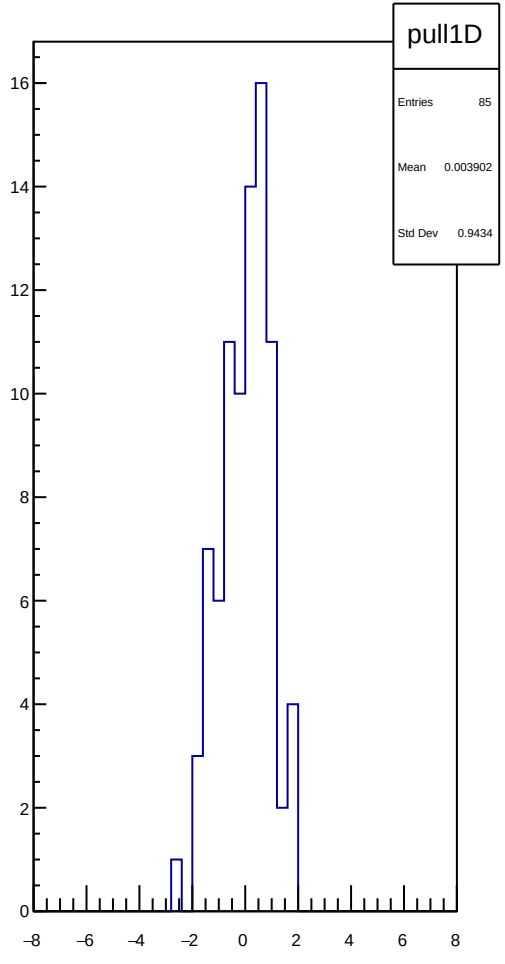

pull1D
Entries 85
Mean 0.003902
Std Dev 0.9434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

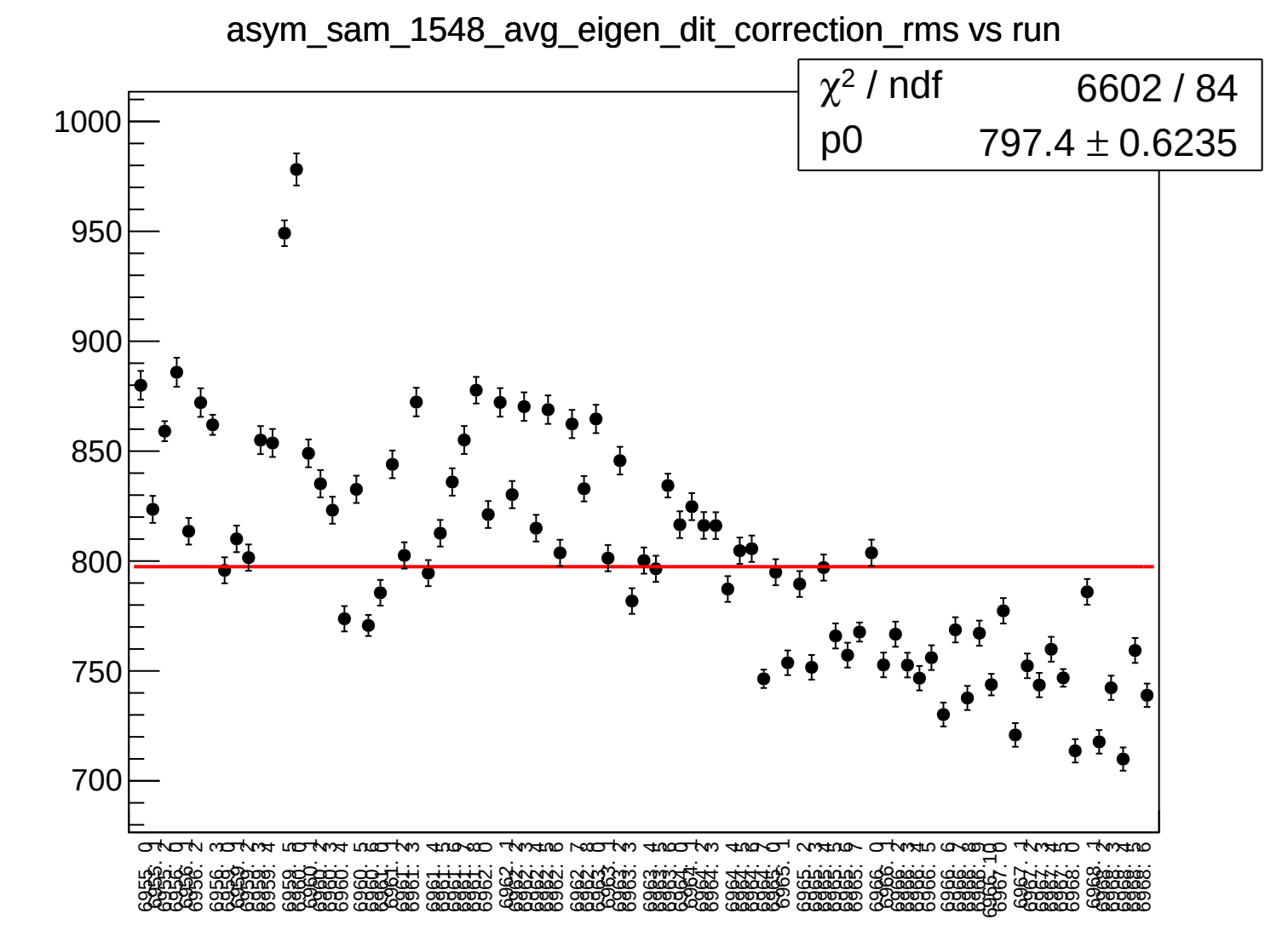

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 6602 / 84
p0 797.4 ± 0.6235
1000
950
900
850
800
750
700

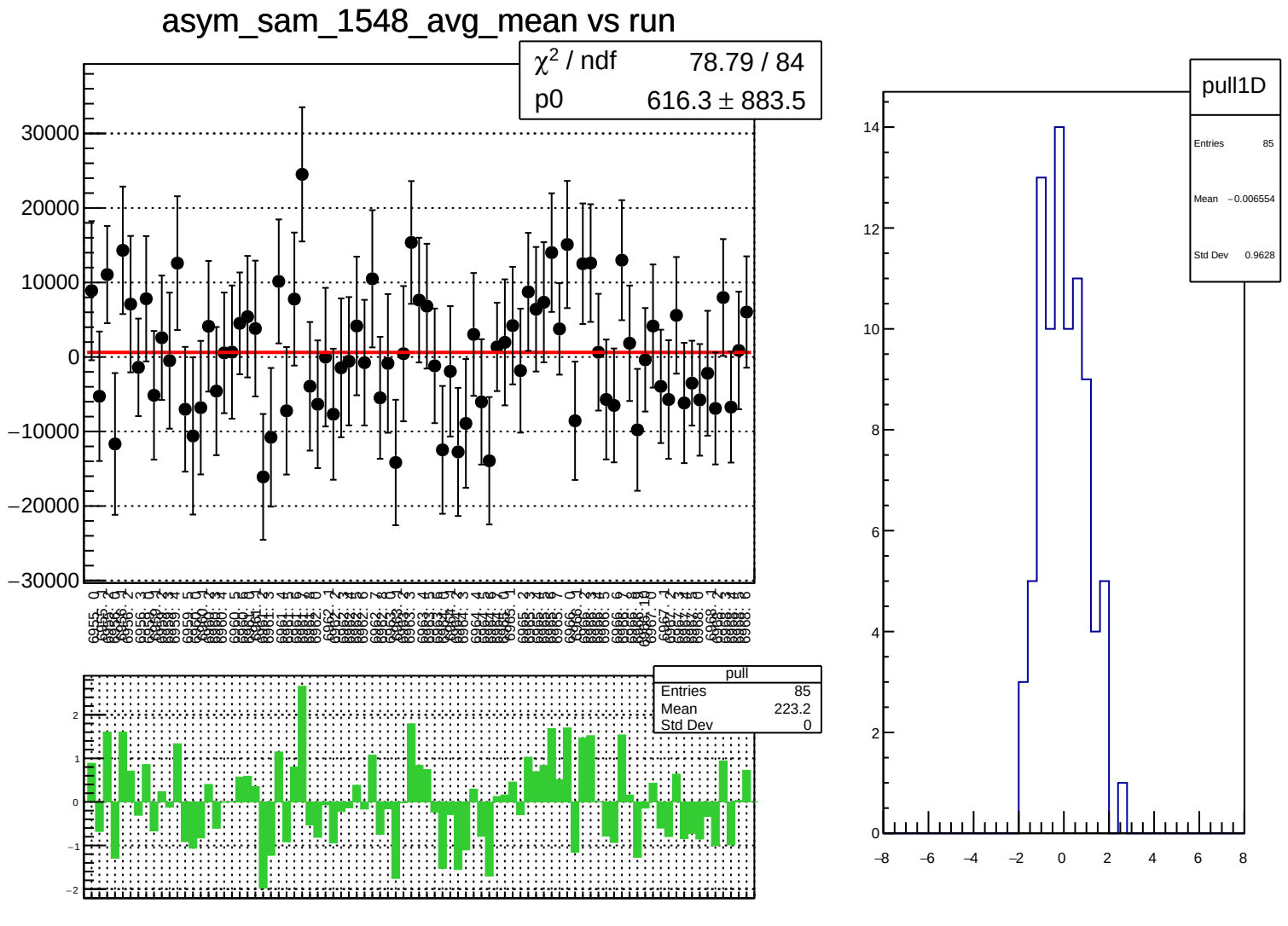

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 84.8 / 84
p0 121.7 ± 122.7
pull
Entries 85
Mean 635
Std Dev 0
pull1D
Entries 85
Mean 0.00731
Std Dev 0.9988

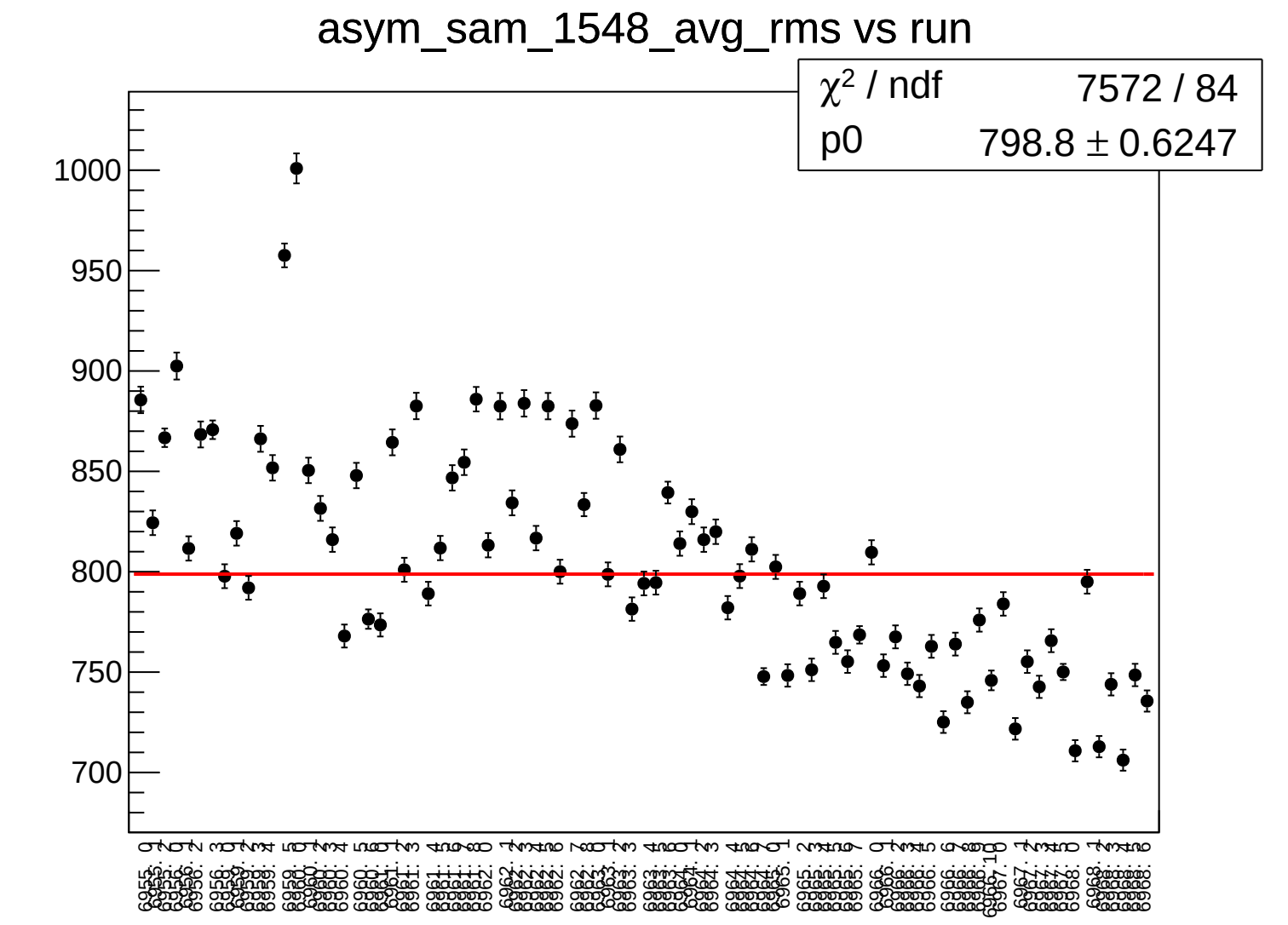

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1108 / 84
p0 111.2 ± 0.08679
120
118
116
114
112
110
108
106
104
102

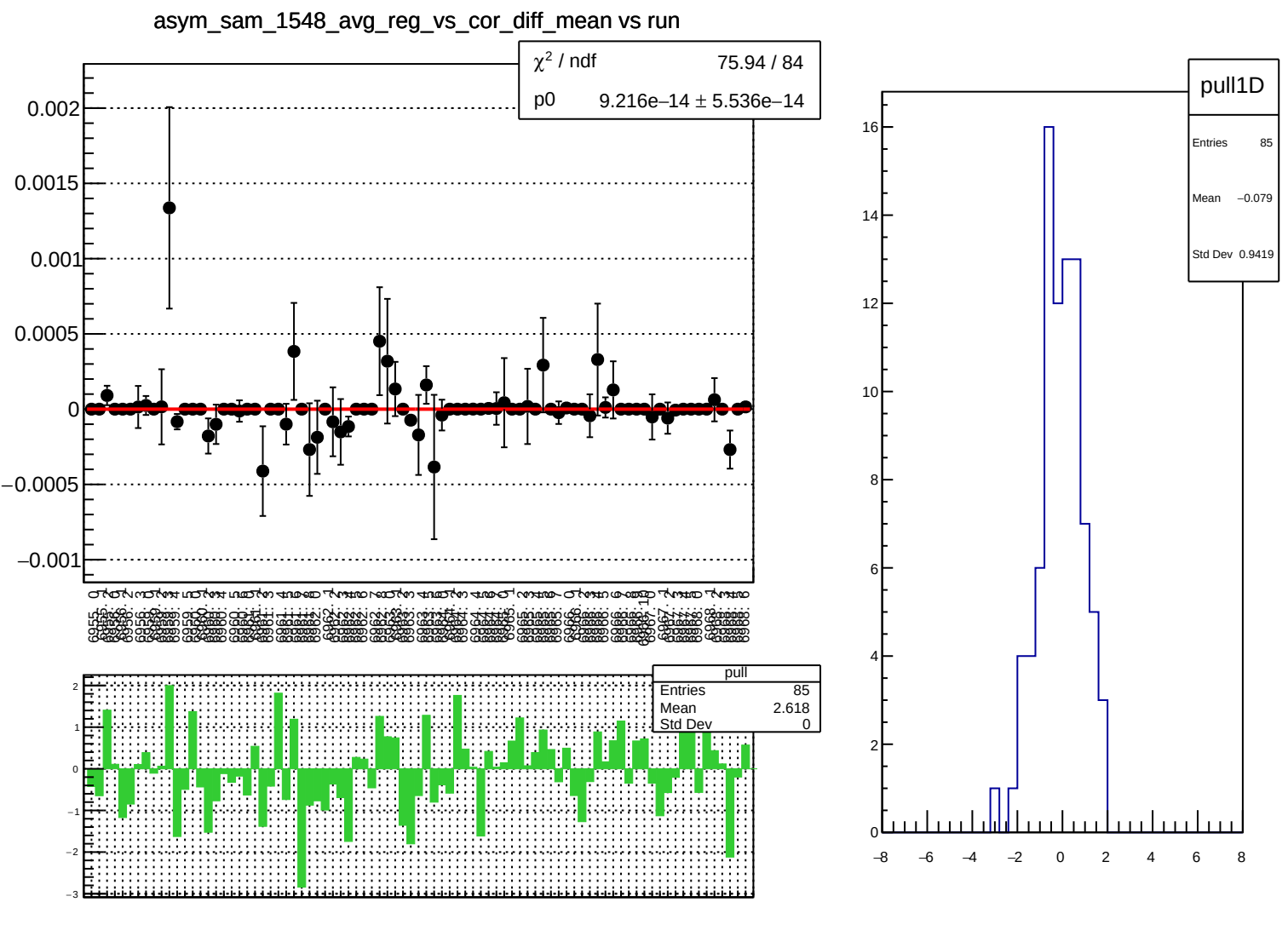

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.66 / 84
p0 −433.5 ± 881.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 487
Std Dev 0
2
1
0
−1
−2

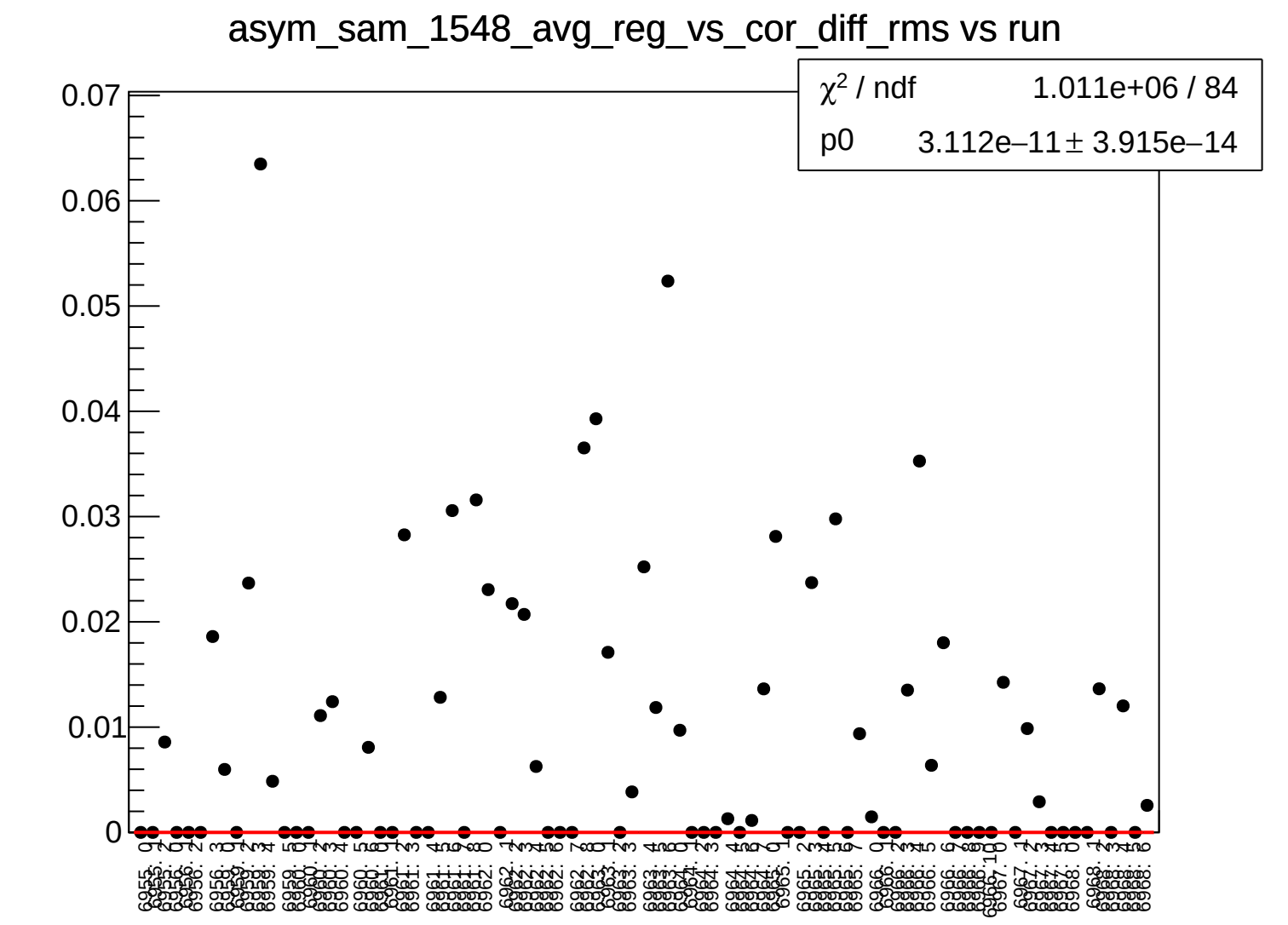

pull1D
Entries 85
Mean 0.003902
Std Dev 0.9434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

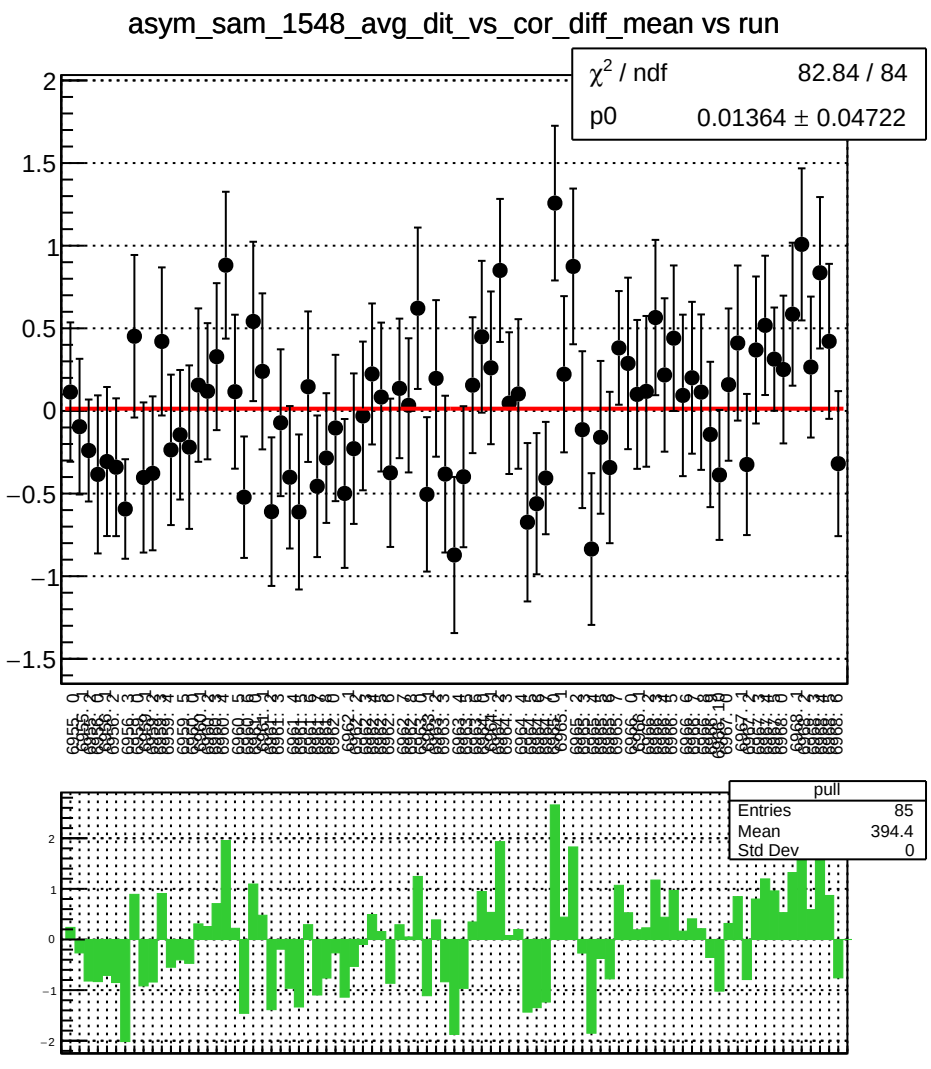

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 6602 / 84
p0 797.4 ± 0.6235
1000
950
900
850
800
750
700

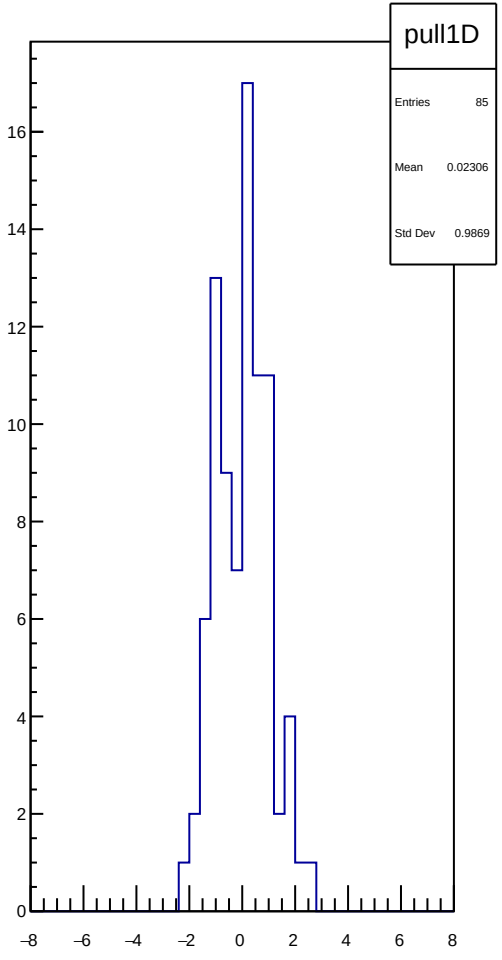

asym_sam_1548_avg_mean vs run
χ² / ndf 78.79 / 84
p0 616.3 ± 883.5
pull
Entries 85
Mean 223.2
Std Dev 0
pull1D
Entries 85
Mean −0.006554
Std Dev 0.9628

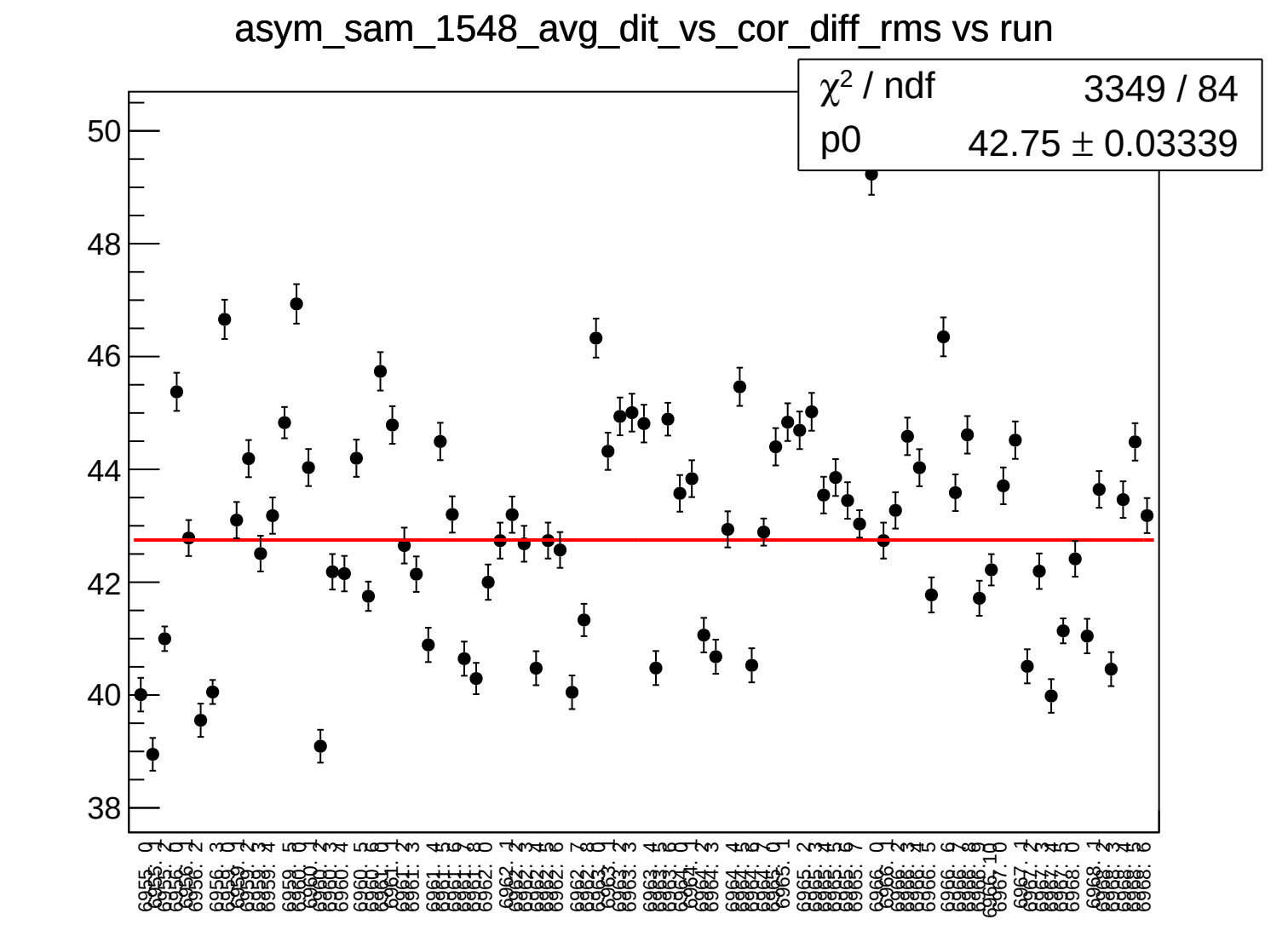

asym_sam_1548_avg_rms vs run
χ² / ndf 7572 / 84
p0 798.8 ± 0.6247
1000
950
900
850
800
750
700

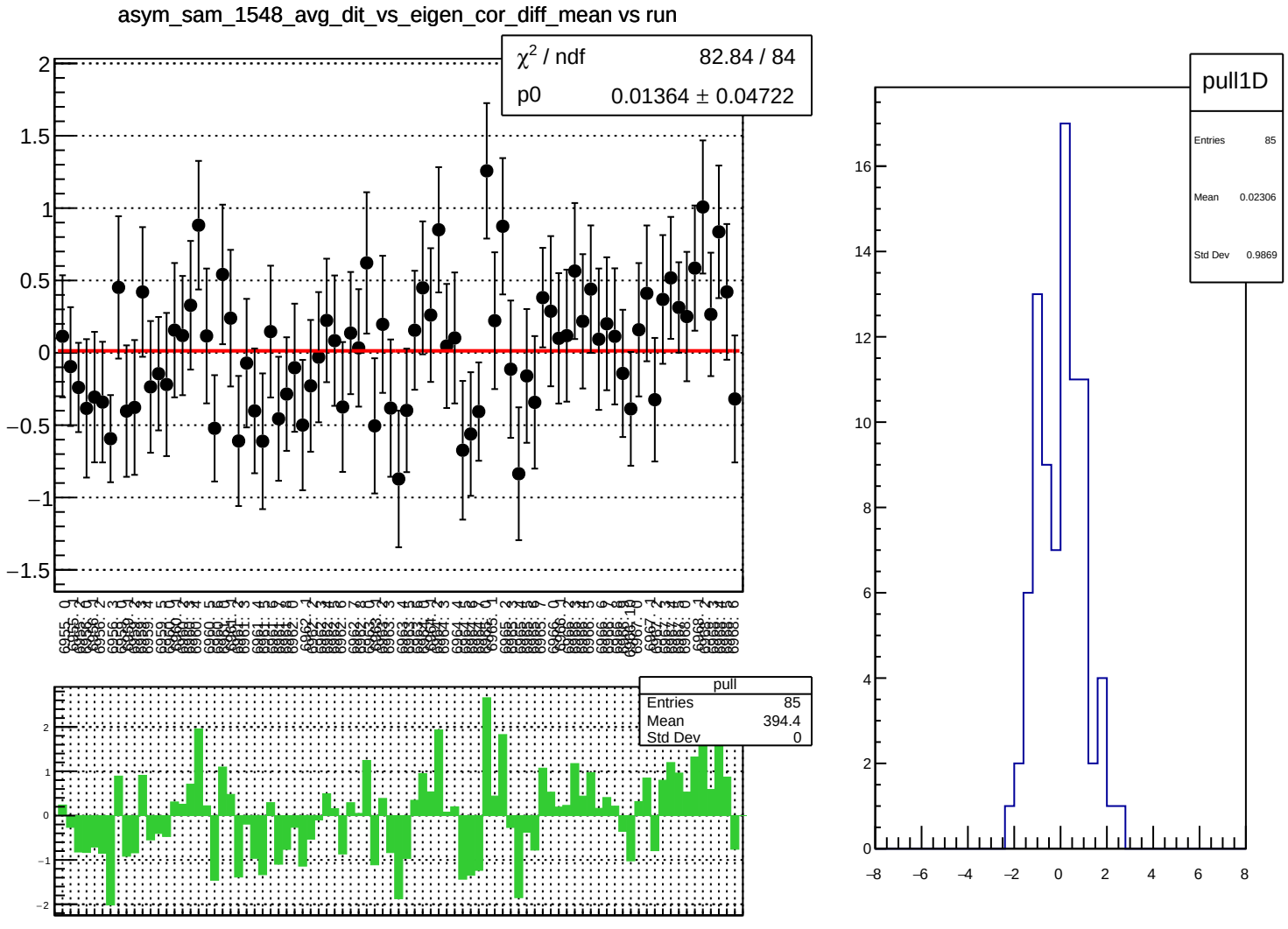

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.94 / 84
p0 9.216e−14 ± 5.536e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 2.618
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.079
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

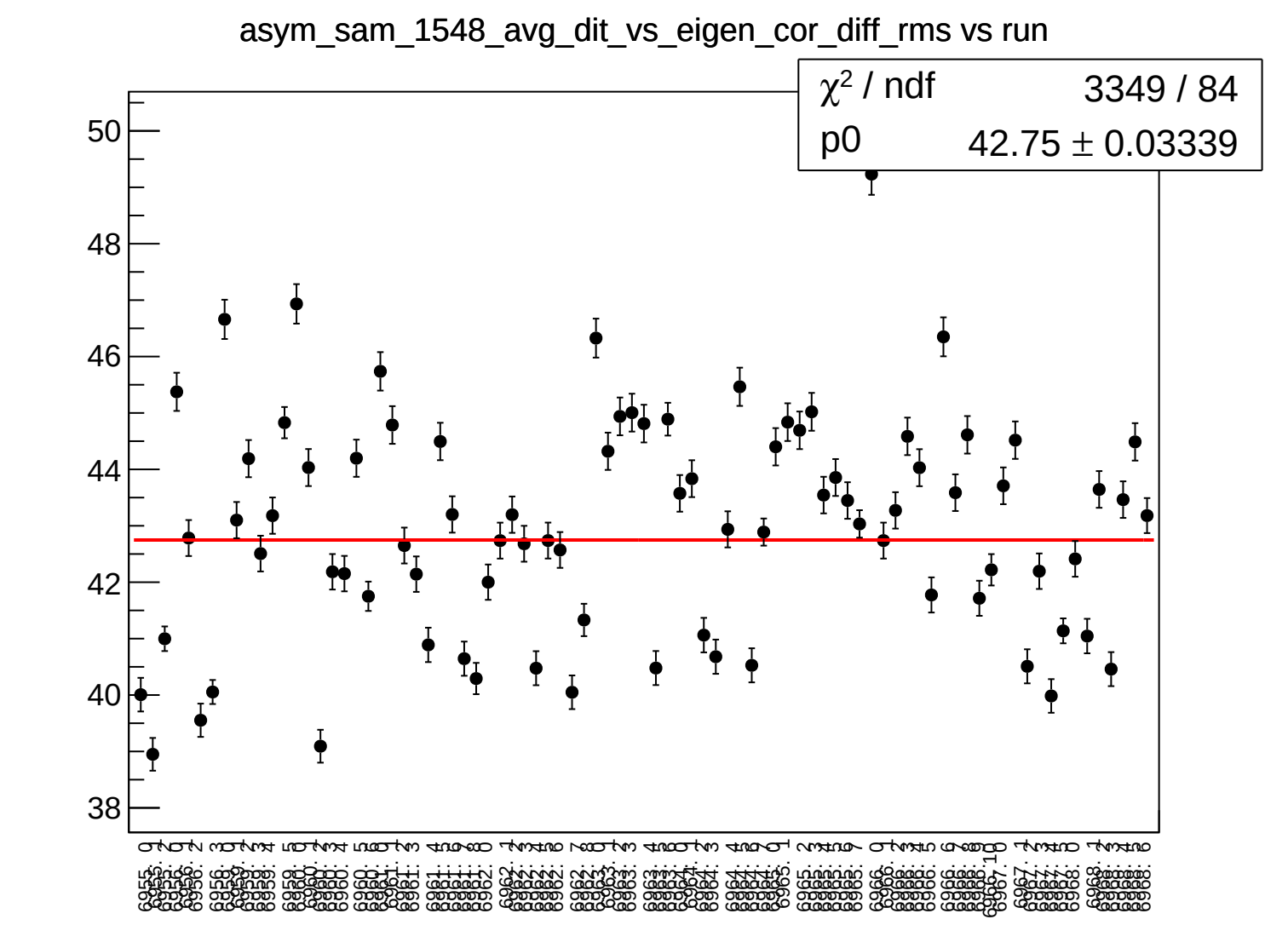

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.011e+06 / 84
p0 3.112e−11 ± 3.915e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

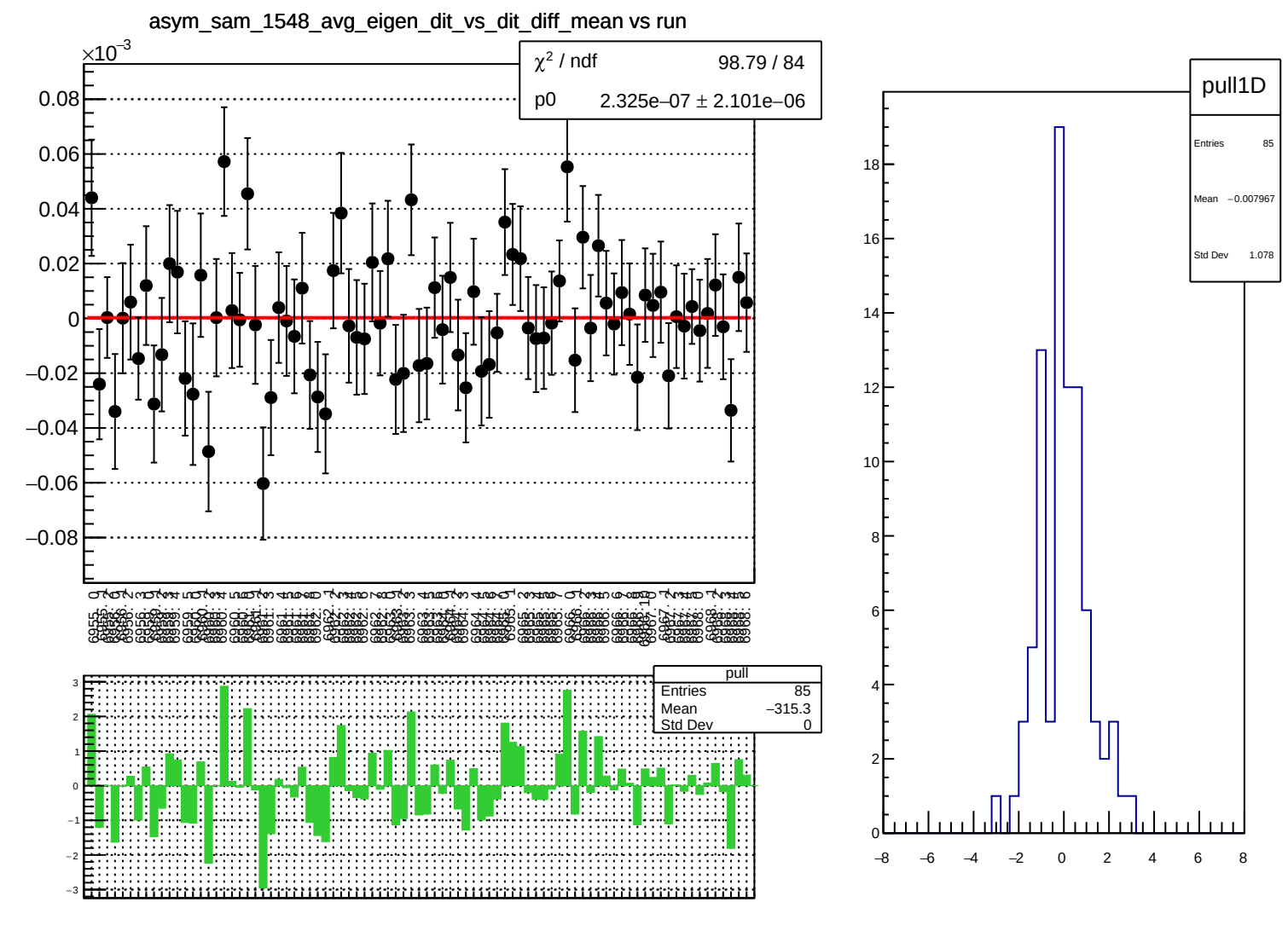

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.84 / 84
p0 0.01364 ± 0.04722
pull
Entries 85
Mean 394.4
Std Dev 0

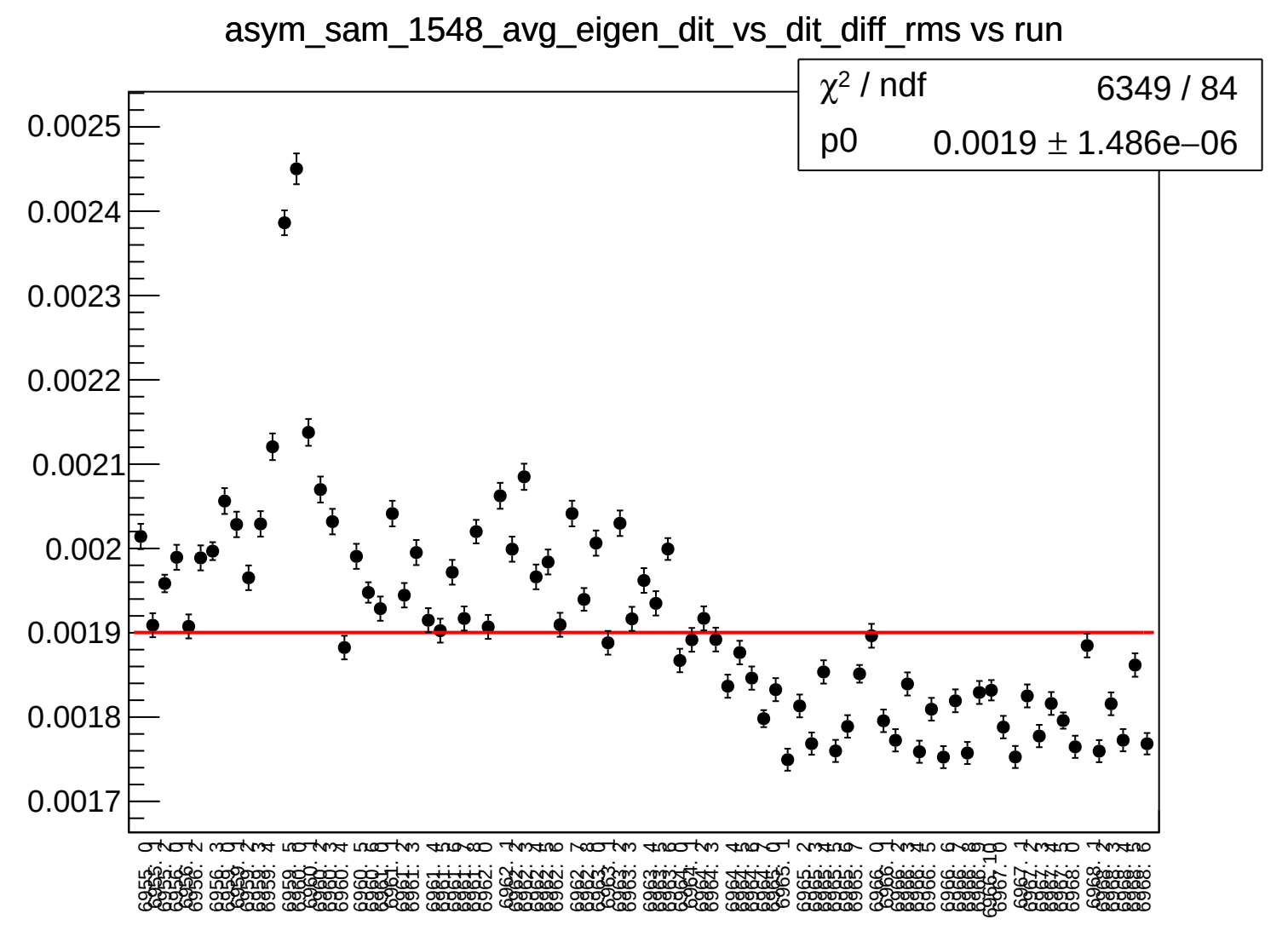

pull1D
Entries 85
Mean 0.02306
Std Dev 0.9869

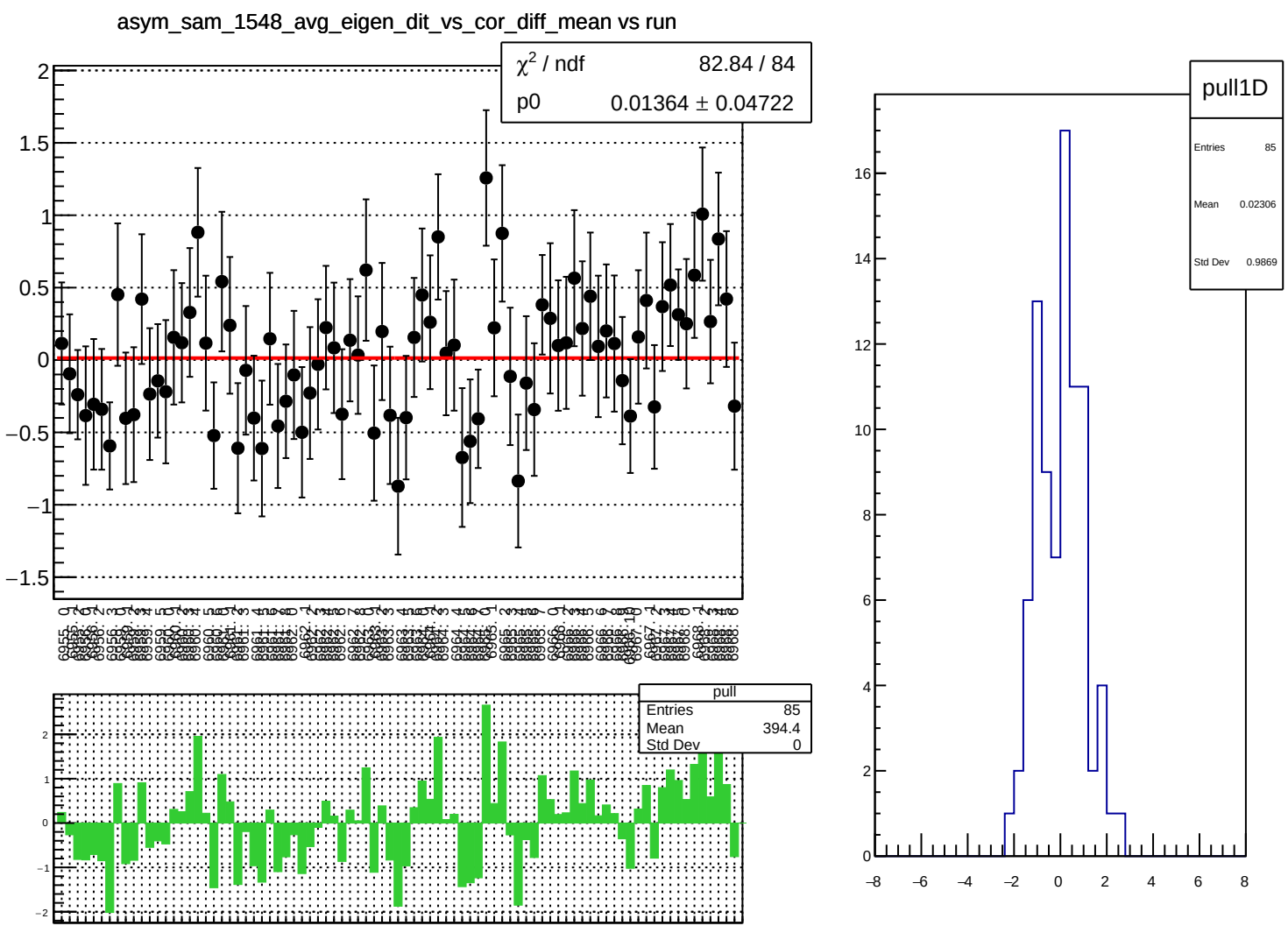

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3349 / 84
p0 42.75 ± 0.03339
50
48
46
44
42
40
38

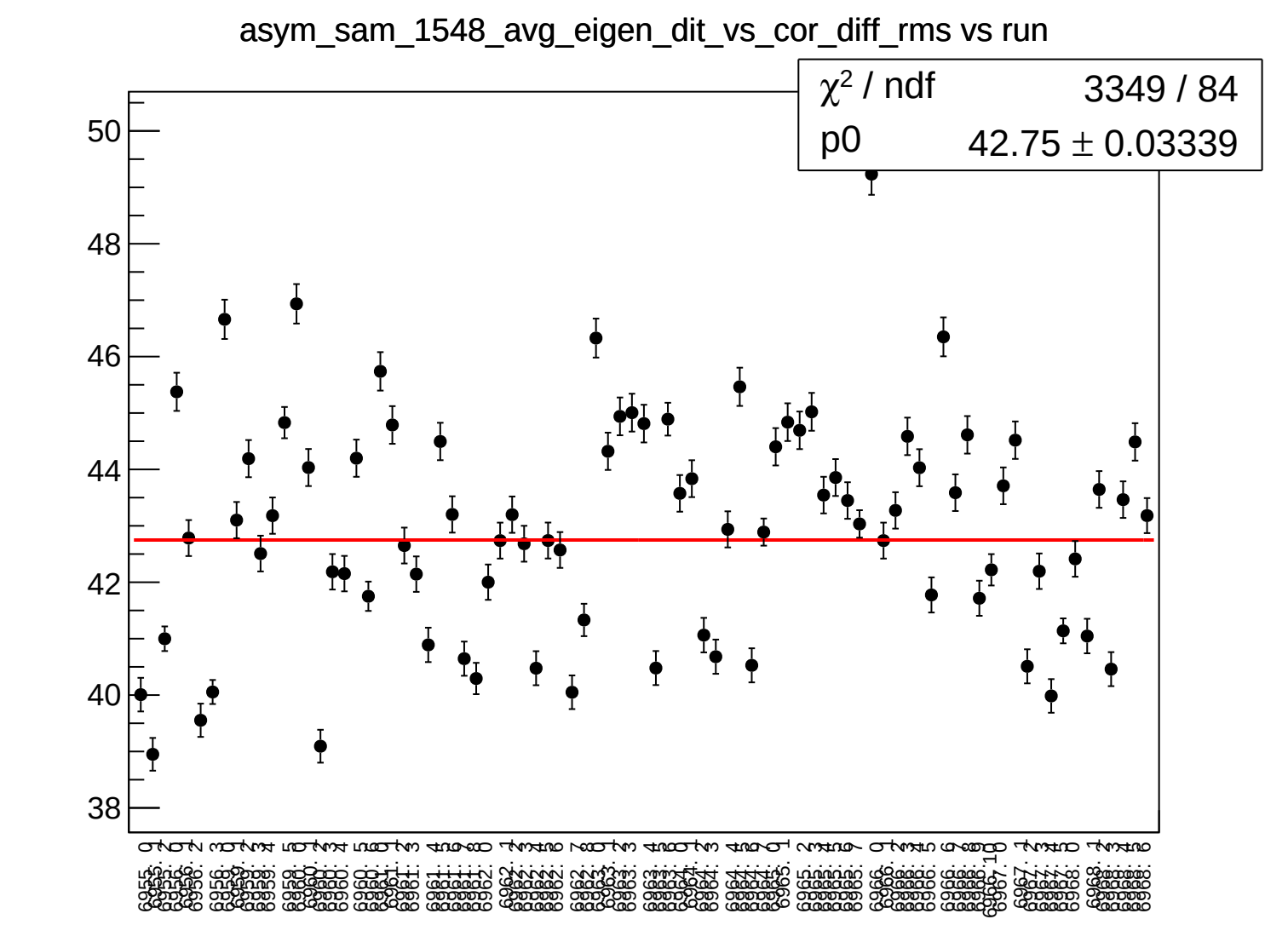

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.84 / 84
p0 0.01364 ± 0.04722
pull
Entries 85
Mean 394.4
Std Dev 0
pull1D
Entries 85
Mean 0.02306
Std Dev 0.9869

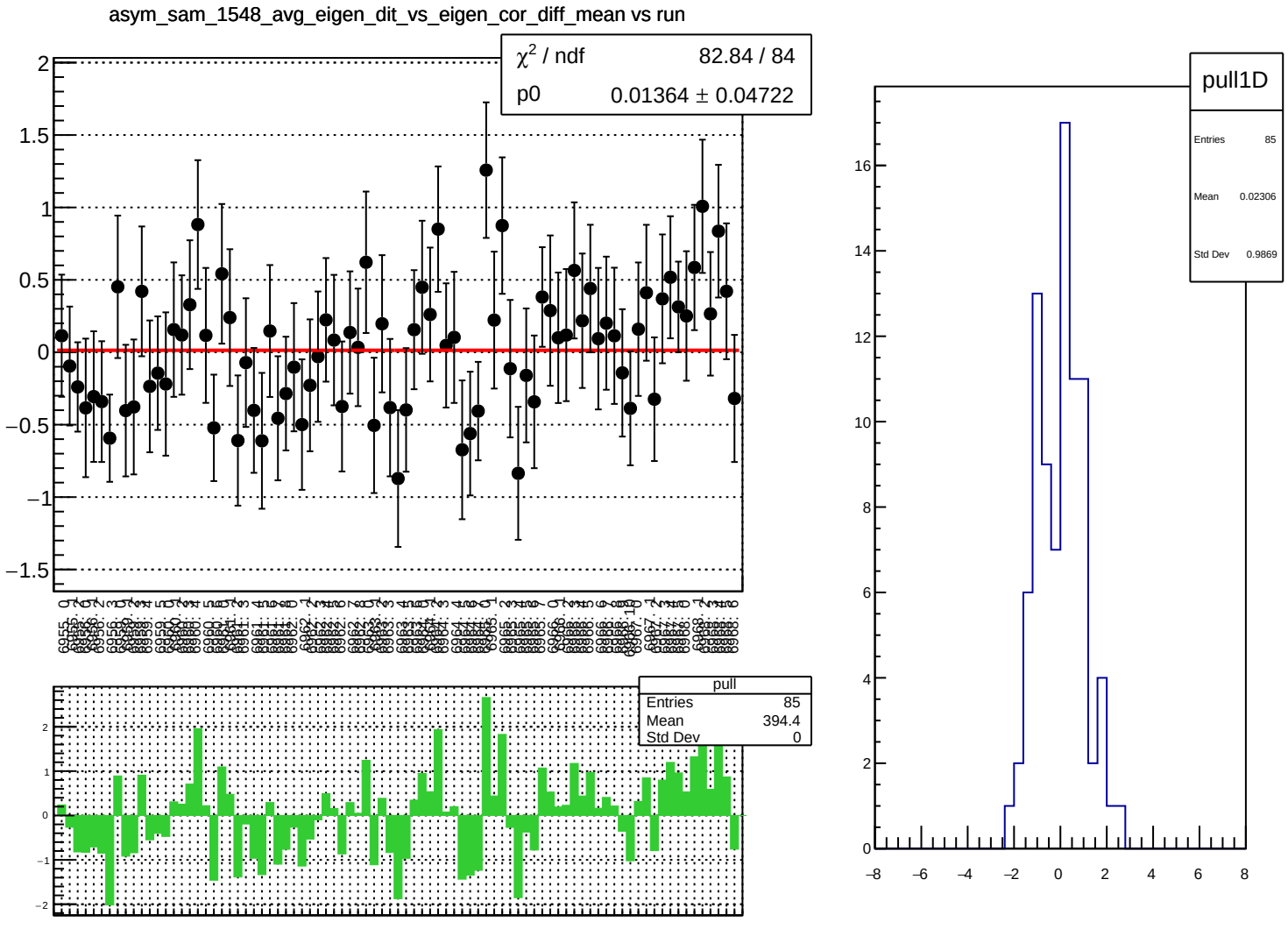

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3349 / 84
p0 42.75 ± 0.03339
50
48
46
44
42
40
38

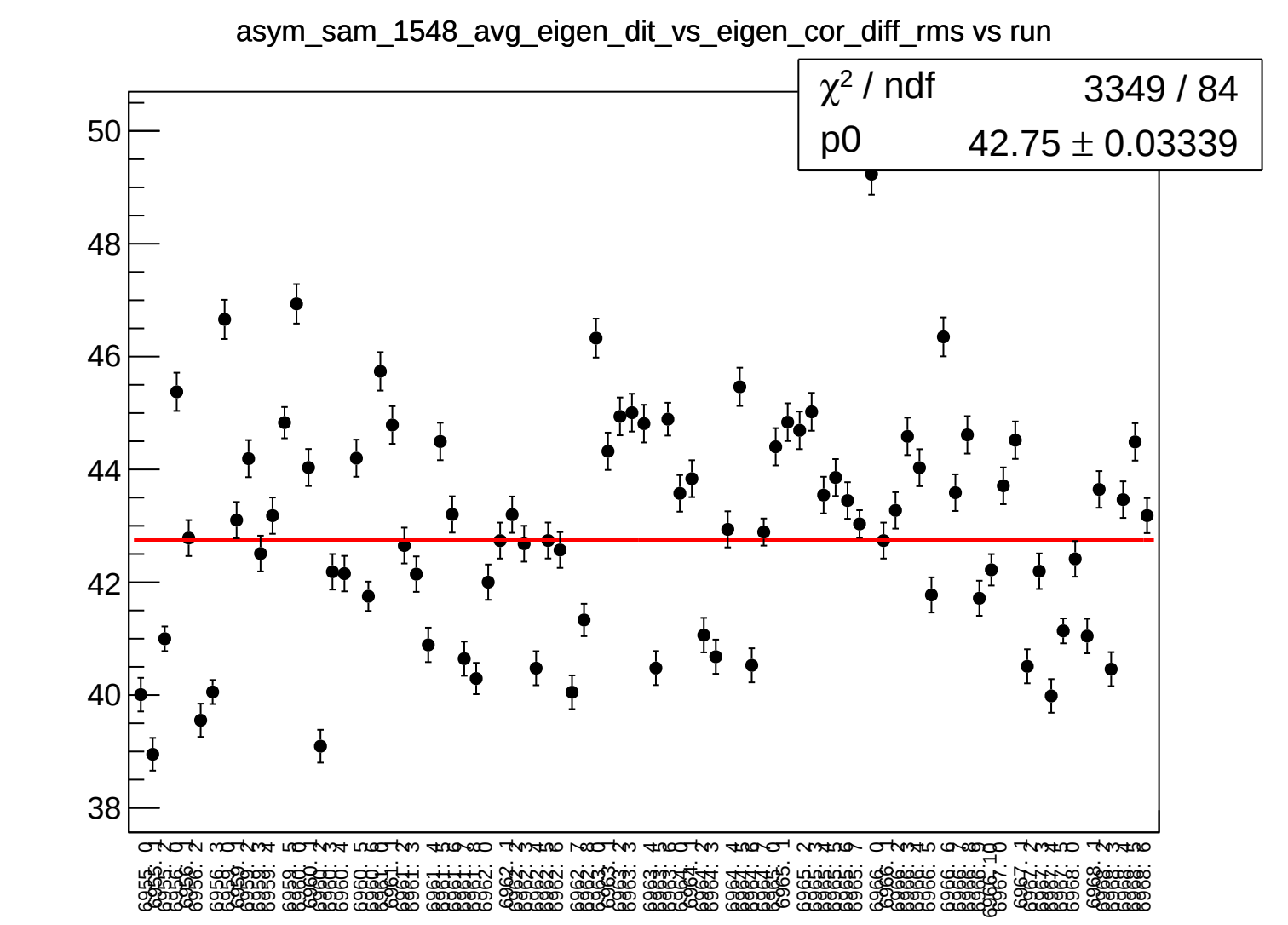

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.79 / 84
p0 2.325e−07 ± 2.101e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 85
Mean −315.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.007967
Std Dev 1.078
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

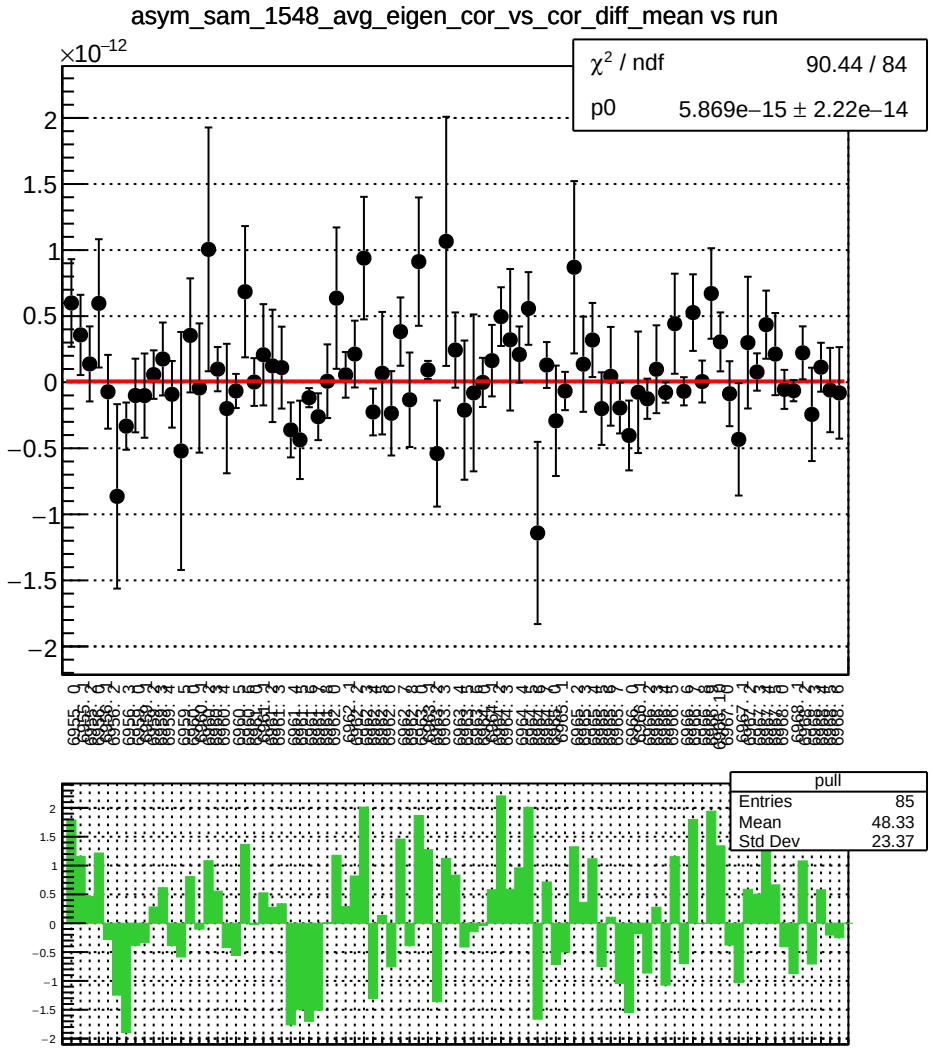

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6349 / 84
p0 0.0019 ± 1.486e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

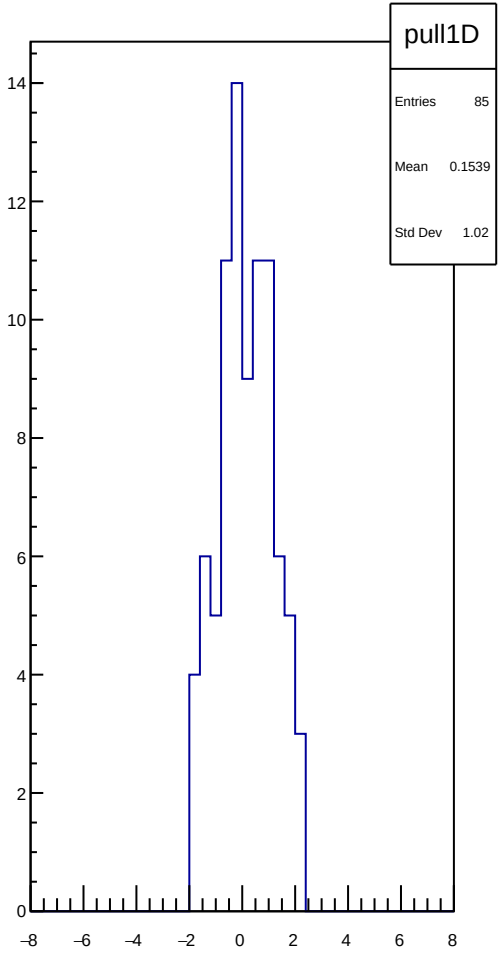

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.84 / 84
p0 0.01364 ± 0.04722
pull
Entries 85
Mean 394.4
Std Dev 0
pull1D
Entries 85
Mean 0.02306
Std Dev 0.9869

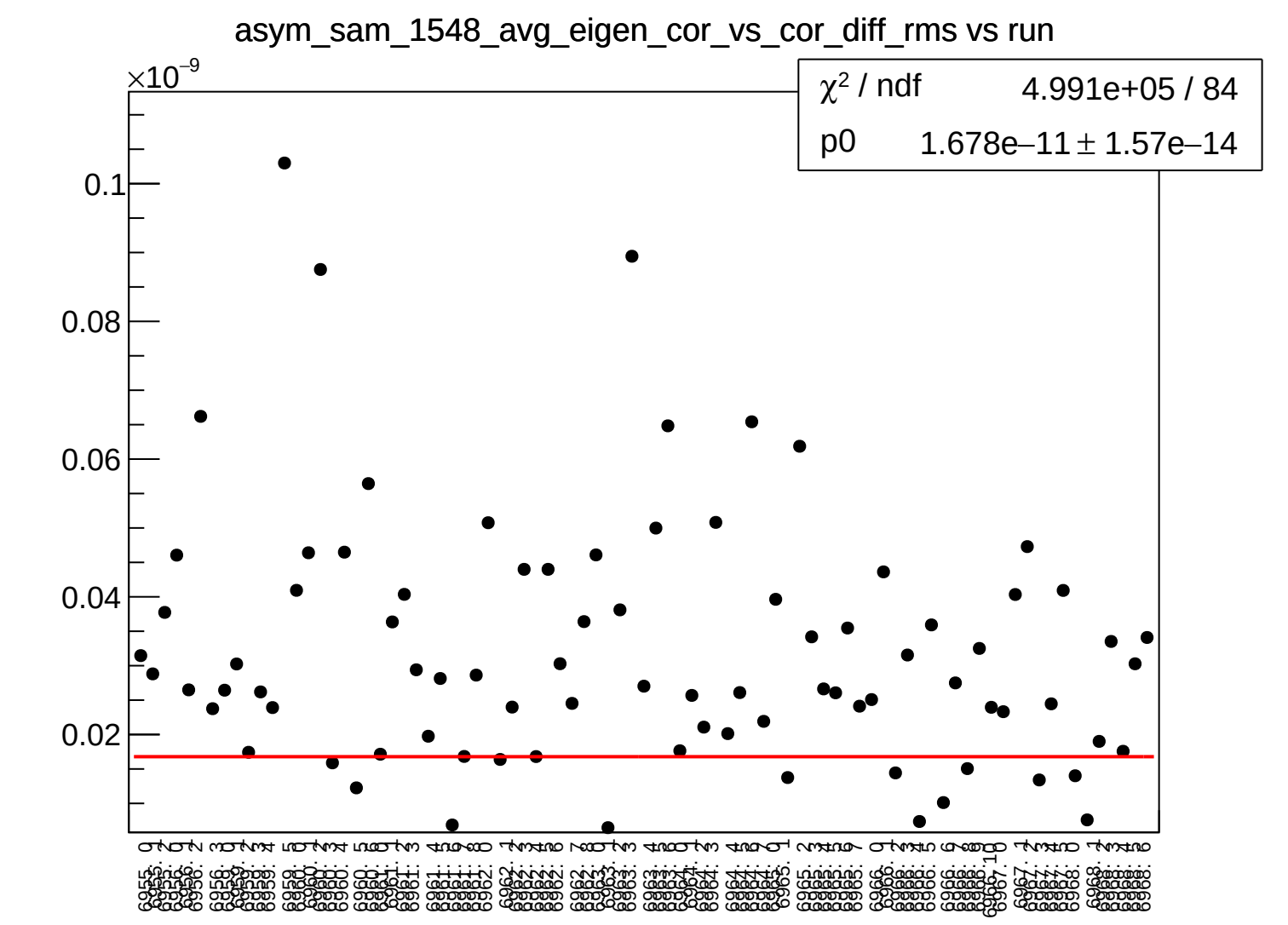

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3349 / 84
p0 42.75 ± 0.03339
50
48
46
44
42
40
38

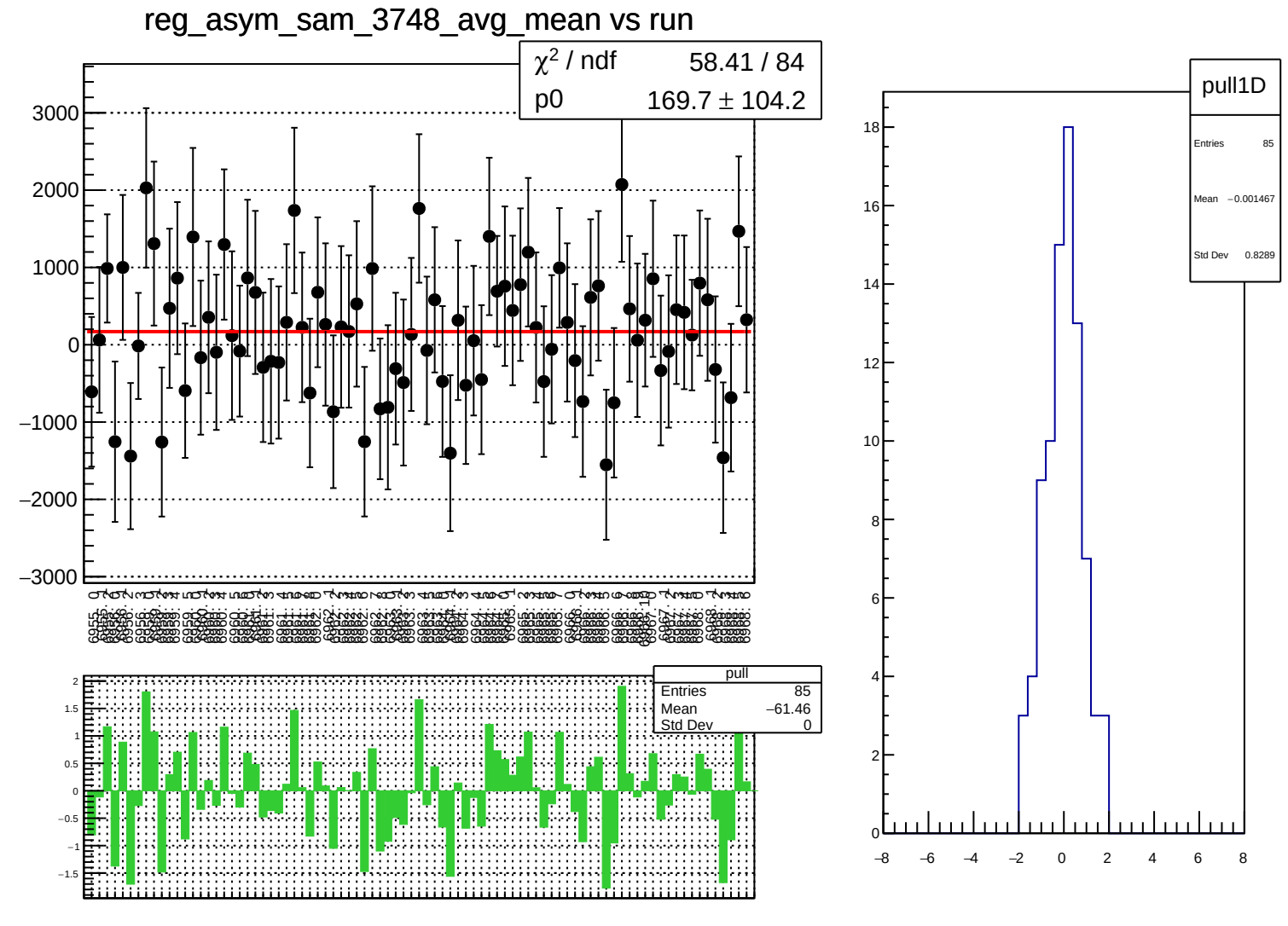

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.84 / 84
p0 0.01364 ± 0.04722
pull
Entries 85
Mean 394.4
Std Dev 0
pull1D
Entries 85
Mean 0.02306
Std Dev 0.9869

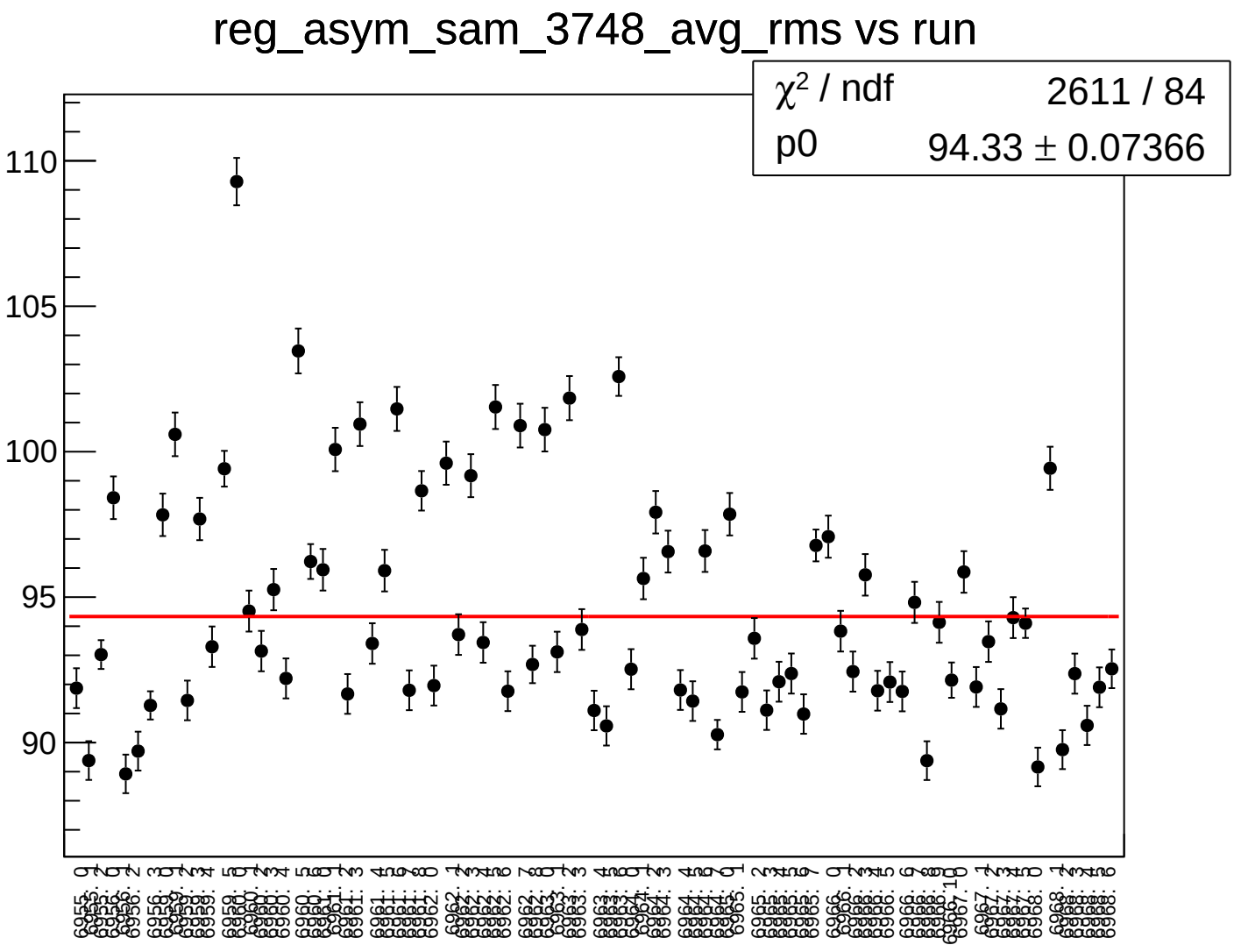

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3349 / 84
p0 42.75 ± 0.03339
50
48
46
44
42
40
38

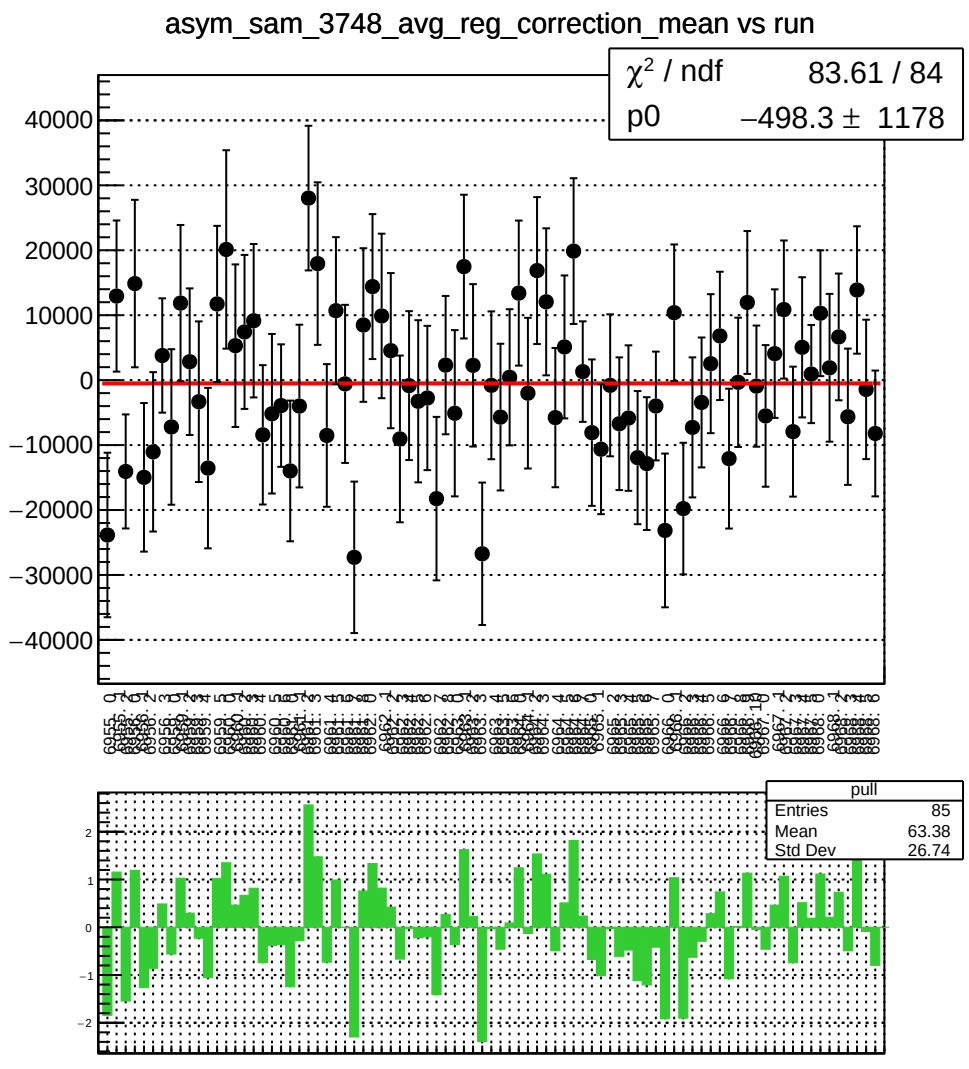

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.44 / 84
p0 5.869e−15 ± 2.22e−14
pull
Entries 85
Mean 48.33
Std Dev 23.37

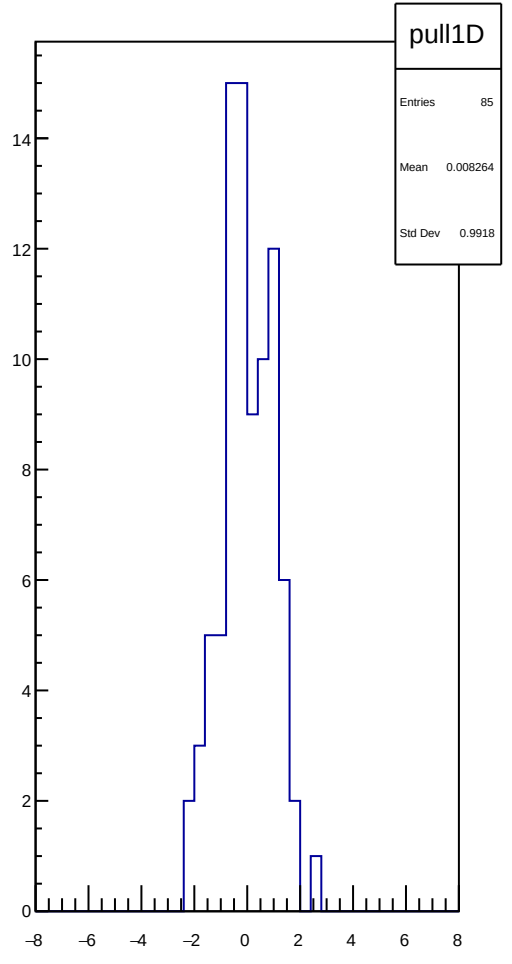

pull1D
Entries 85
Mean 0.1539
Std Dev 1.02

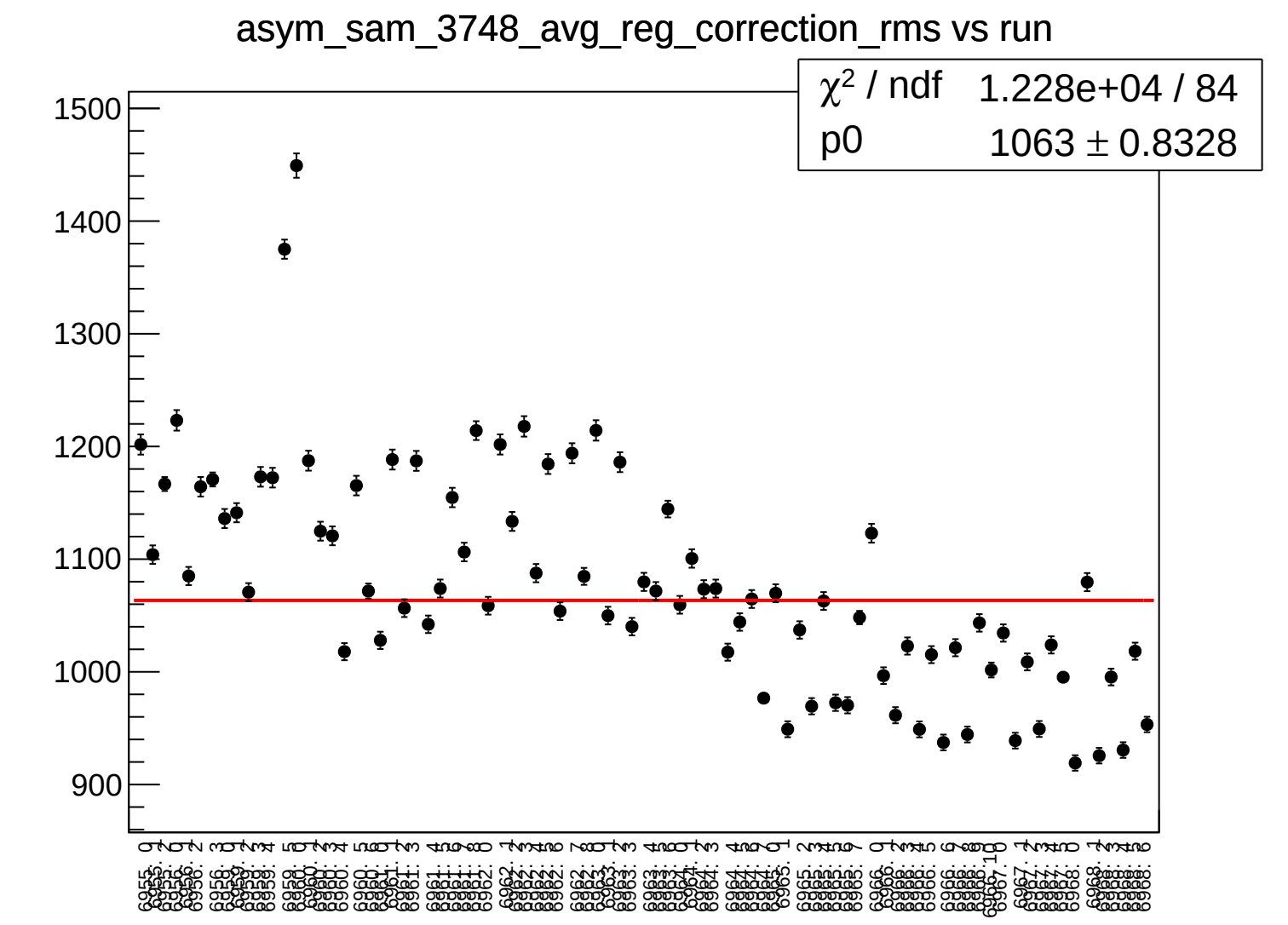

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.991e+05 / 84
p0 1.678e−11 ± 1.57e−14
0.1
0.08
0.06
0.04
0.02

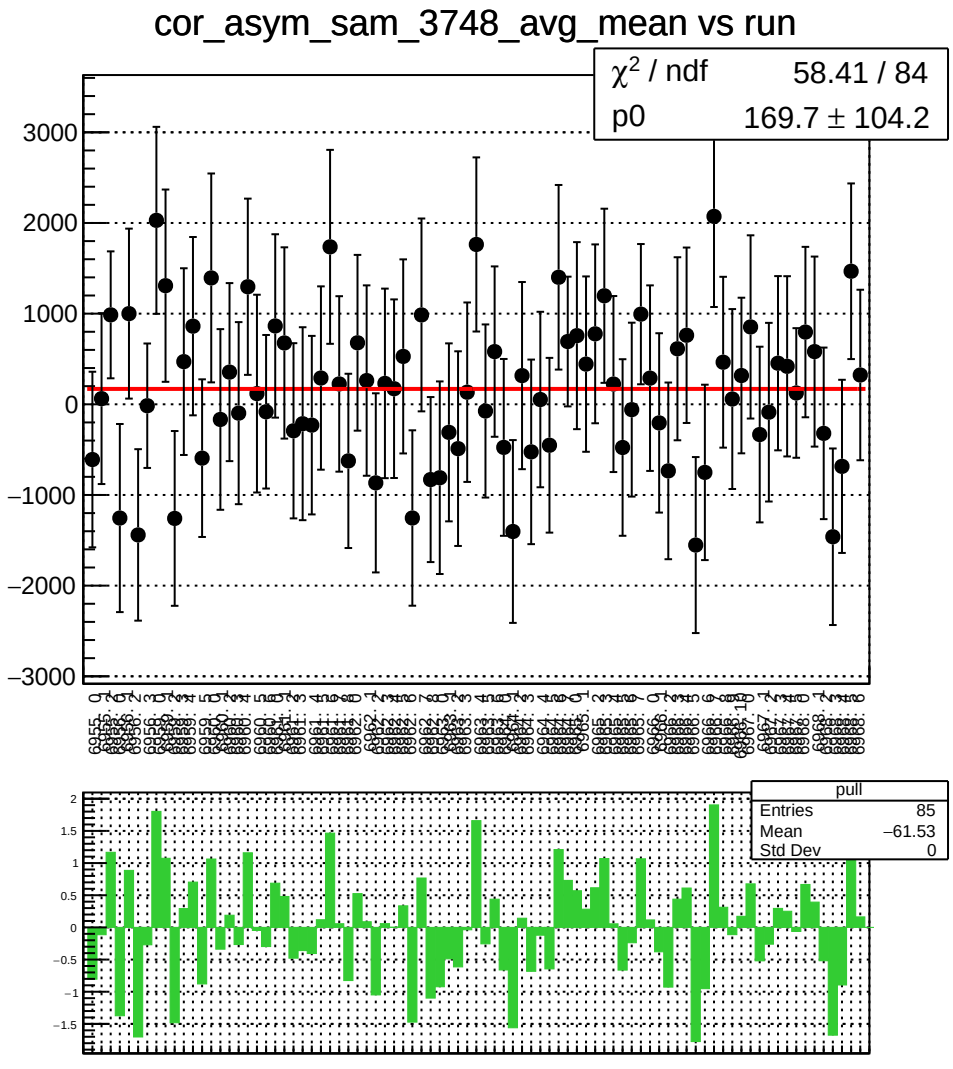

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 58.41 / 84
p0 169.7 ± 104.2
pull
Entries 85
Mean −61.46
Std Dev 0
pull1D
Entries 85
Mean −0.001467
Std Dev 0.8289

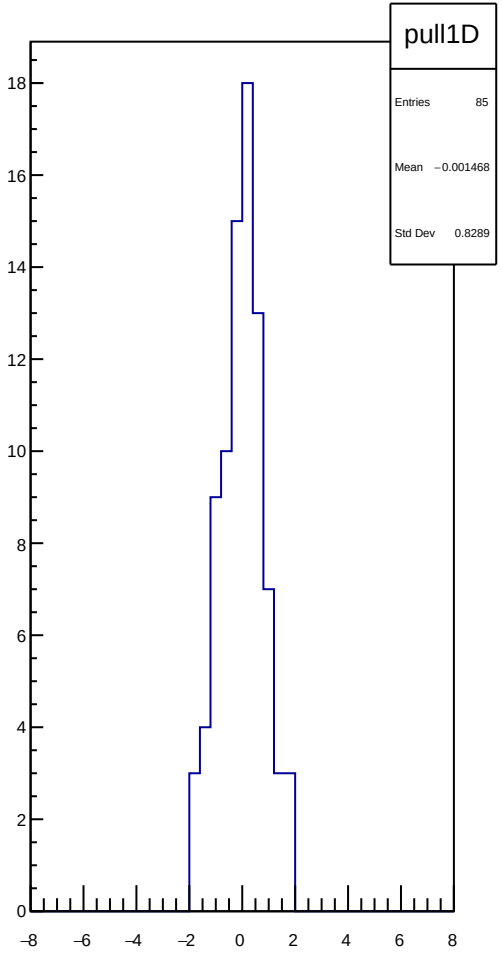

reg_asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 2611 / 84
p0 94.33 ± 0.07366
110
105
100
95
90

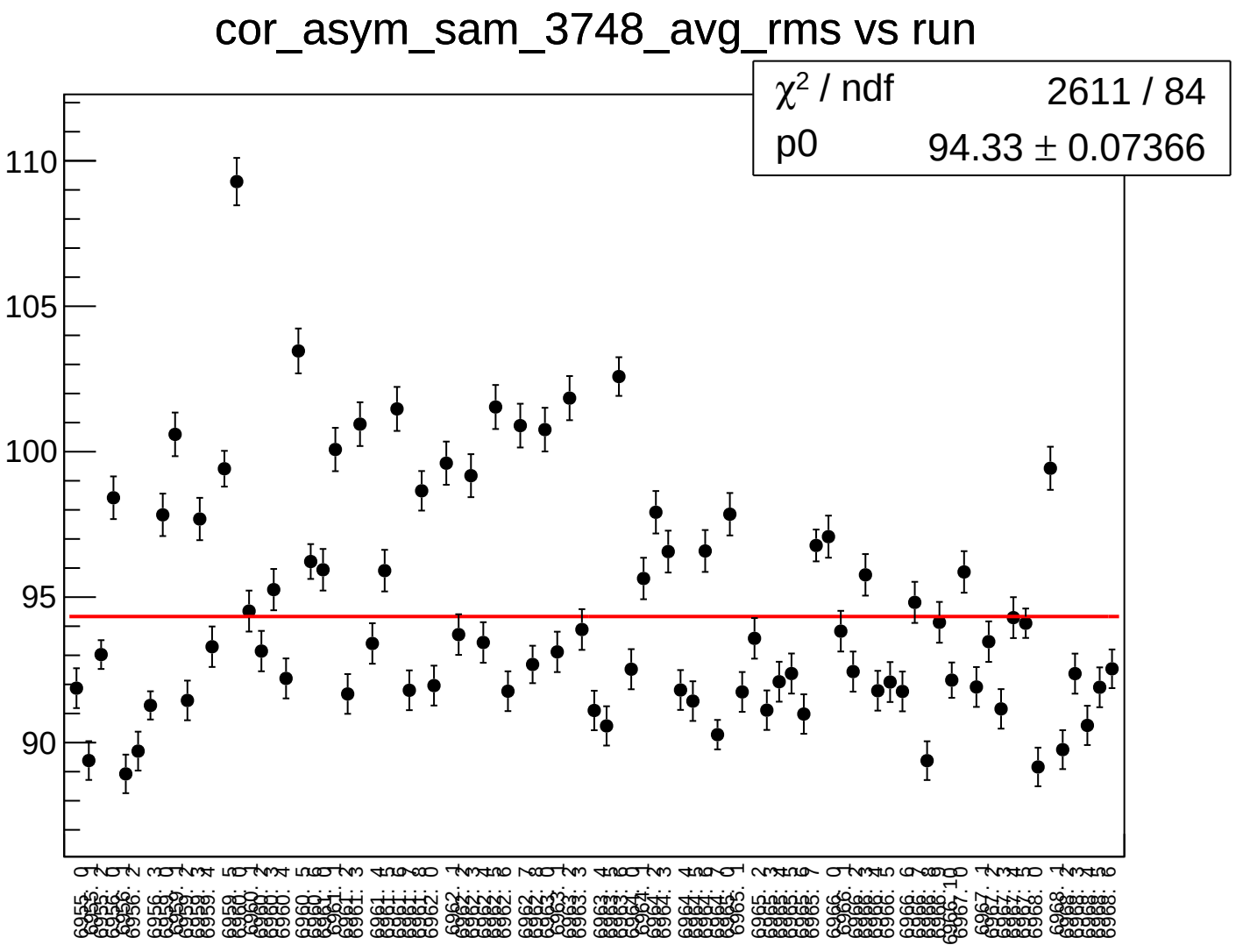

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 83.61 / 84
p0 −498.3 ± 1178
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 63.38
Std Dev 26.74
2
1
0
−1
−2

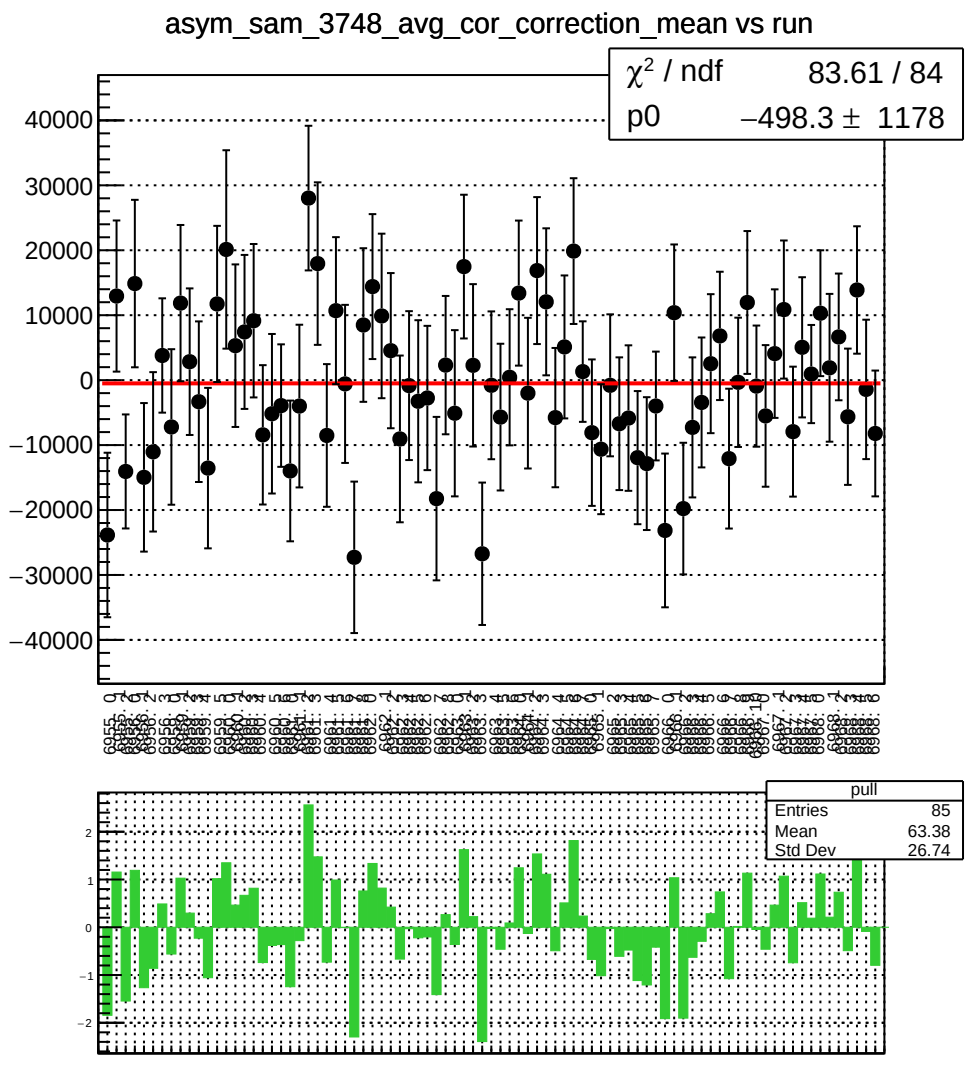

pull1D
Entries 85
Mean 0.008264
Std Dev 0.9918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

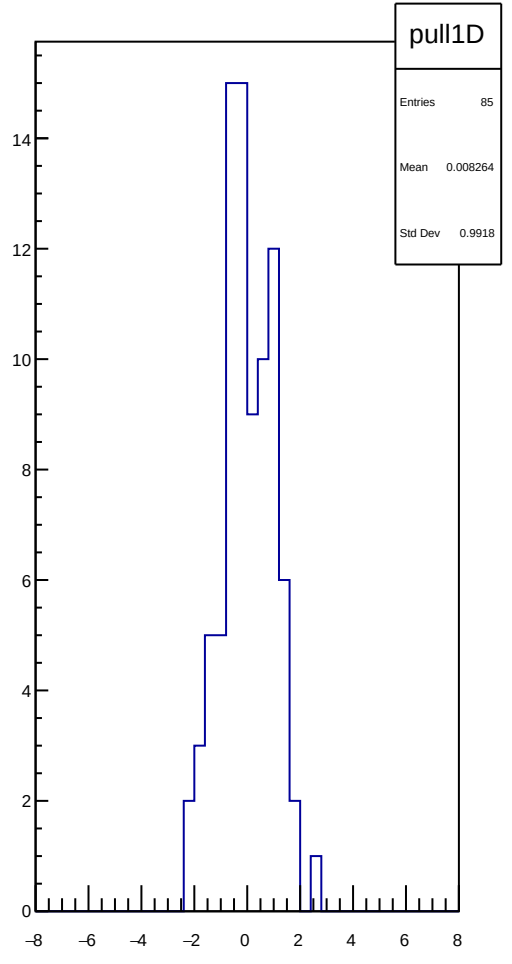

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.228e+04 / 84
p0 1063 ± 0.8328
1500
1400
1300
1200
1100
1000
900

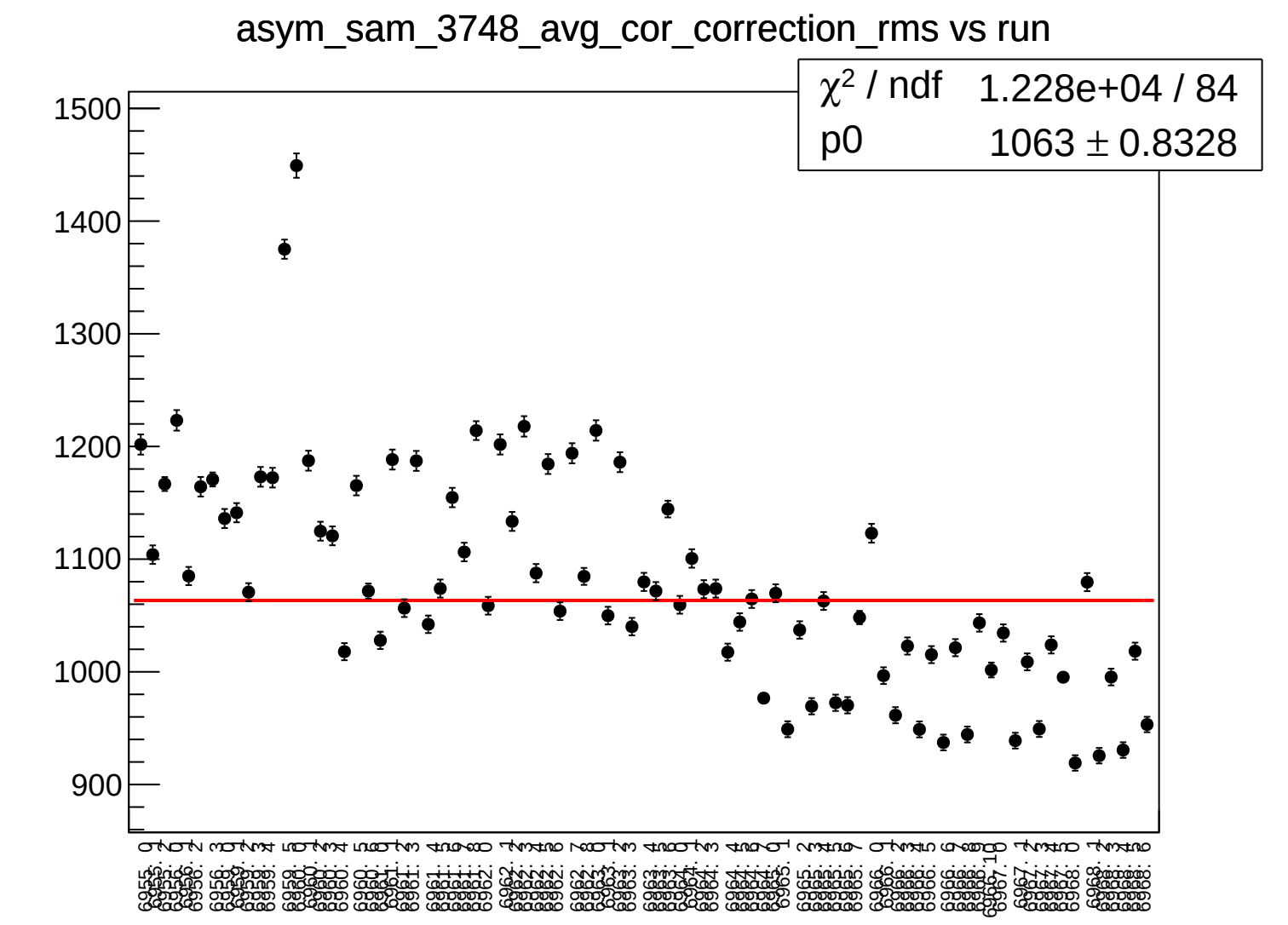

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 58.41 / 84
p0 169.7 ± 104.2
pull
Entries 85
Mean −61.53
Std Dev 0

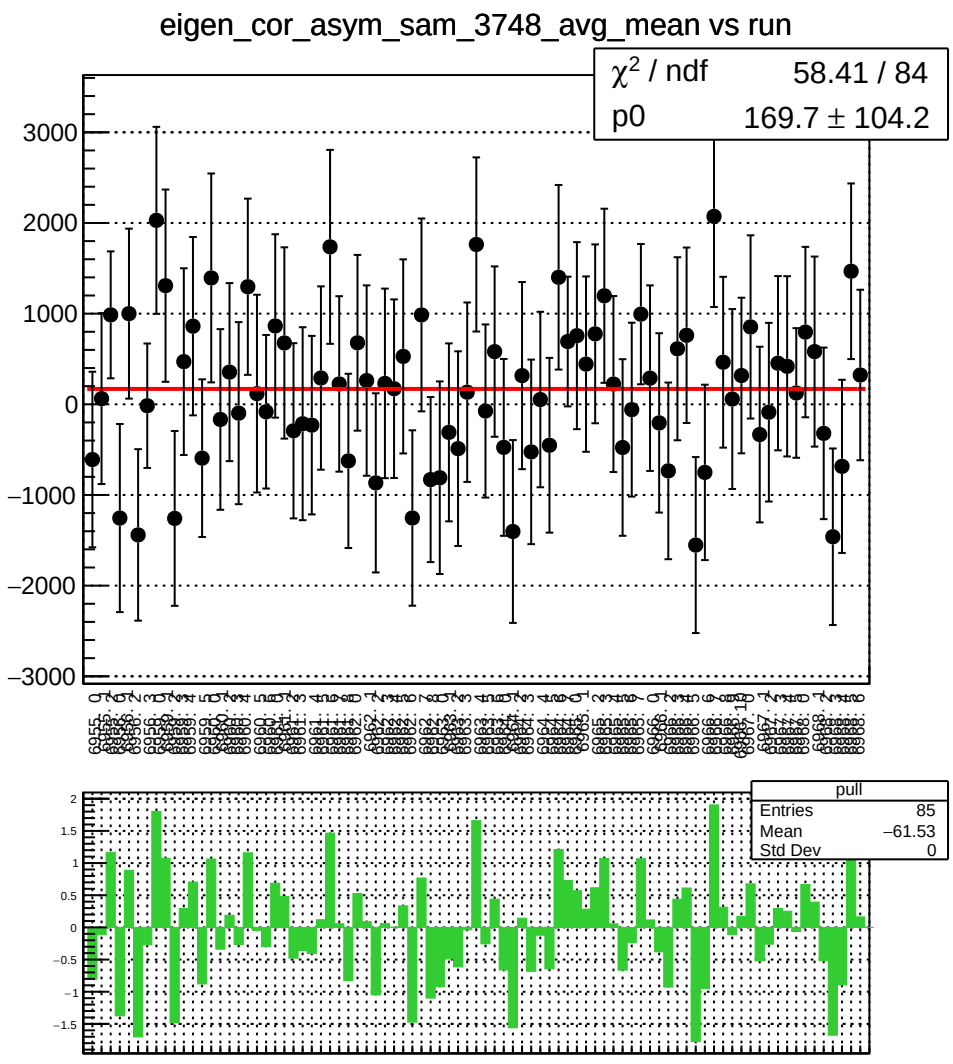

pull1D
Entries 85
Mean −0.001468
Std Dev 0.8289

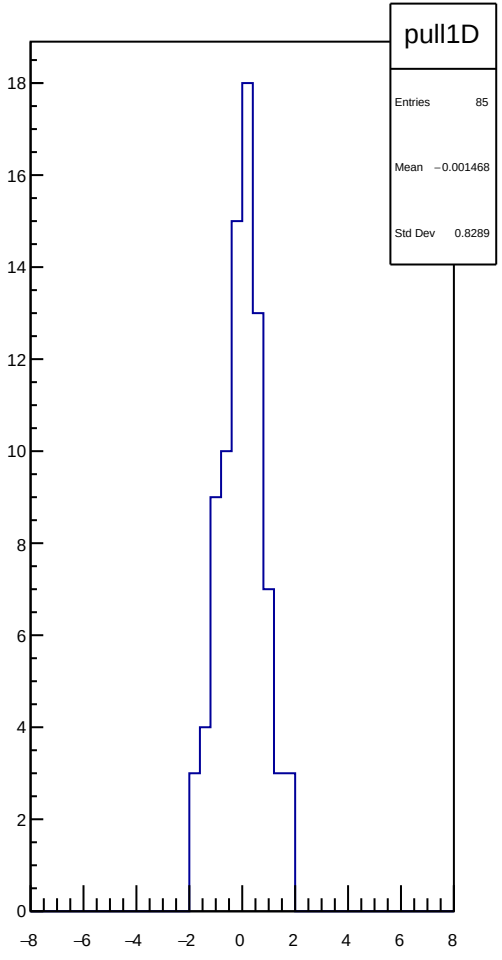

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2611 / 84
p0 94.33 ± 0.07366
110
105
100
95
90

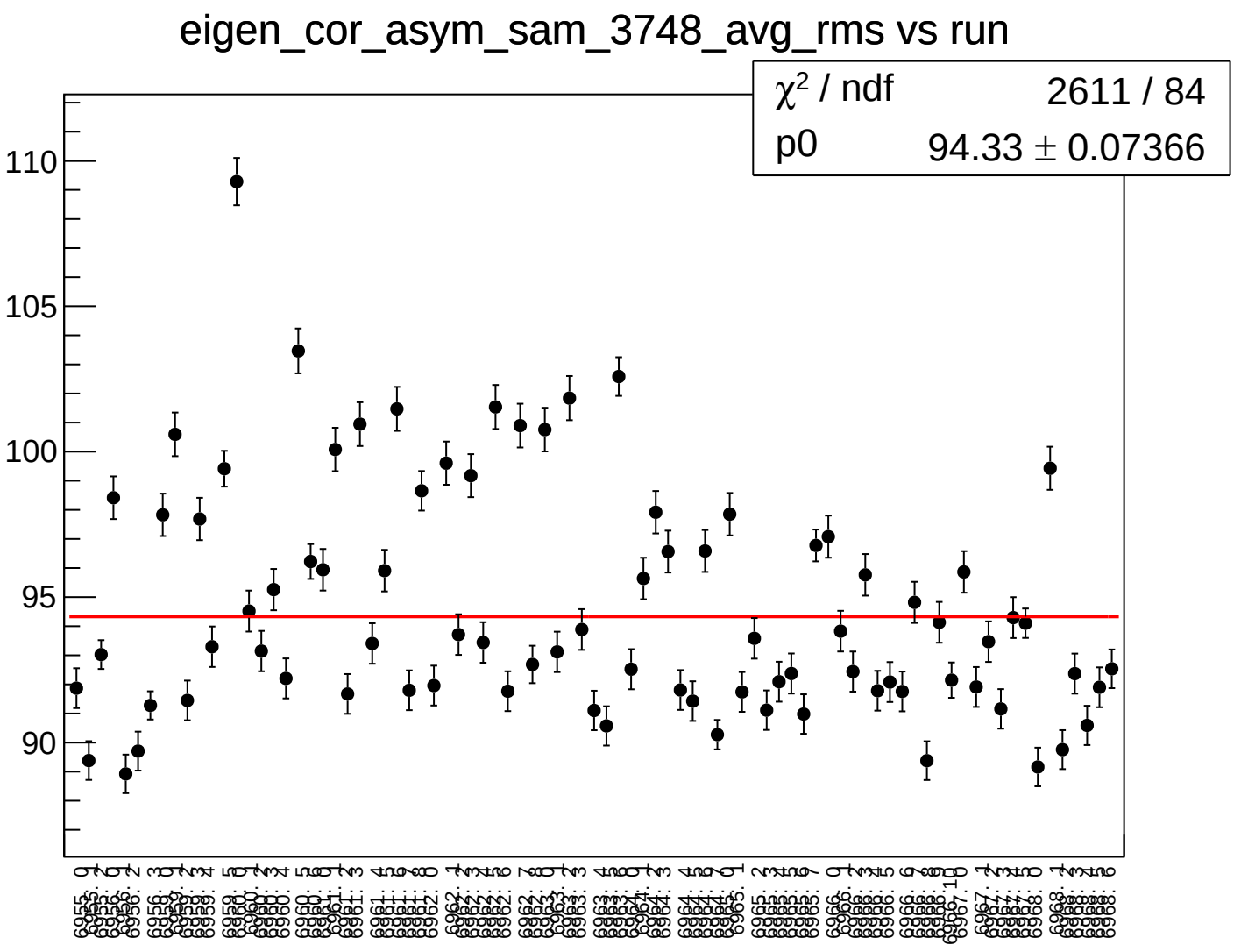

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 83.61 / 84
p0 −498.3 ± 1178
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 63.38
Std Dev 26.74
2
1
0
−1
−2

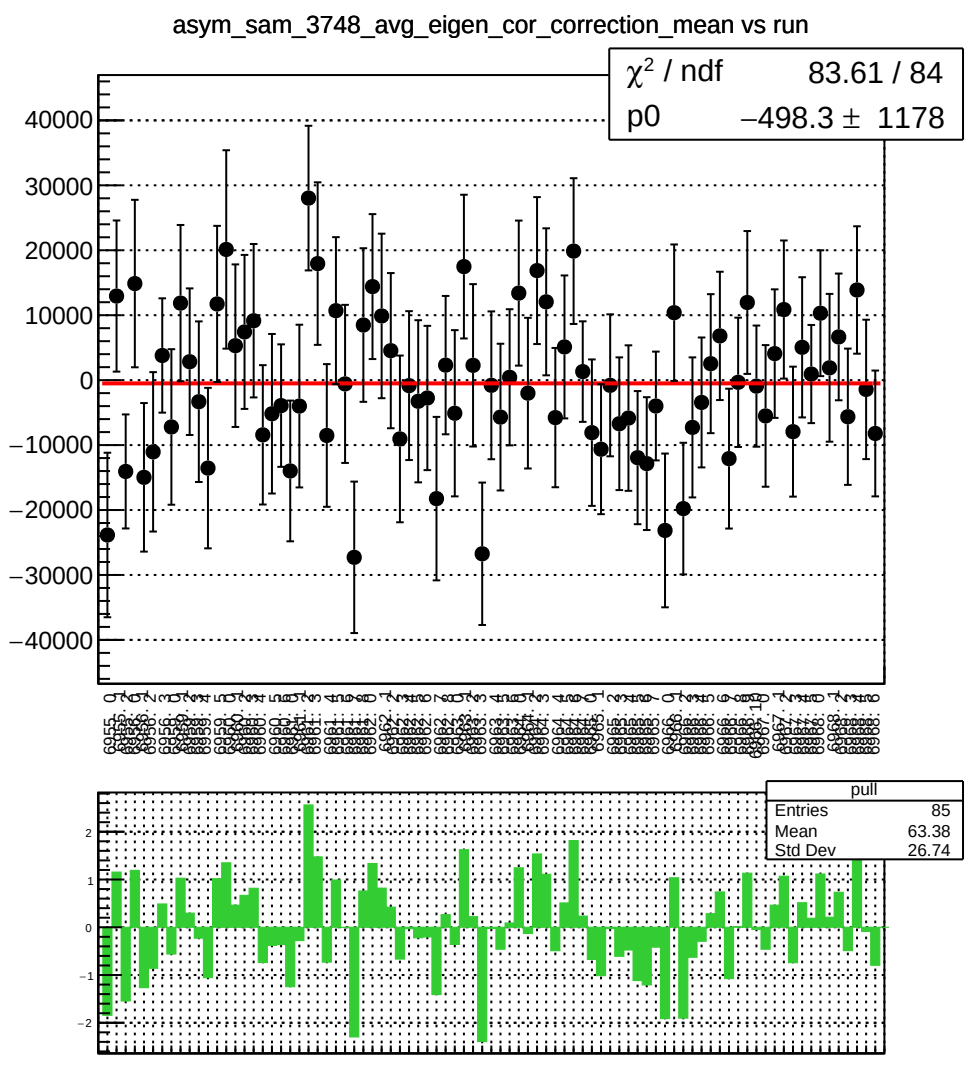

pull1D
Entries 85
Mean 0.008264
Std Dev 0.9918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

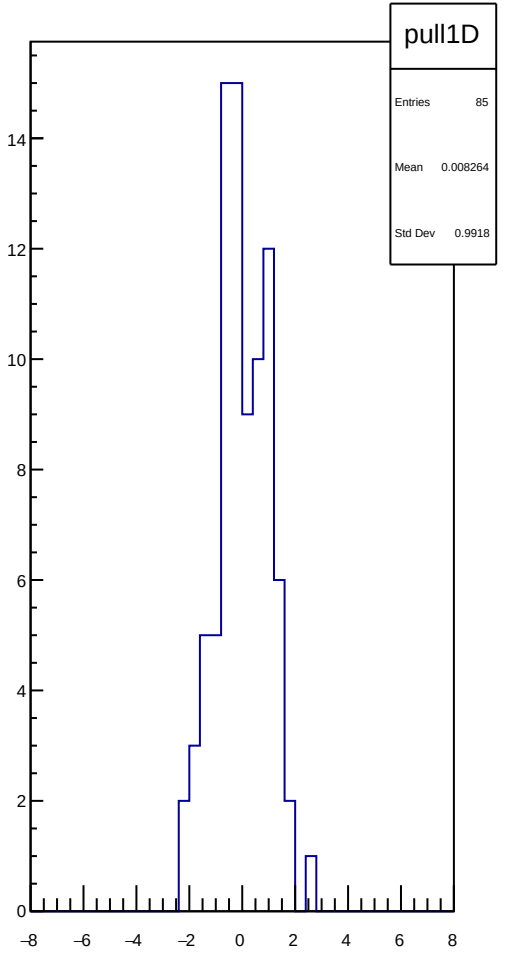

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.228e+04 / 84
p0 1063 ± 0.8328
1500
1400
1300
1200
1100
1000
900

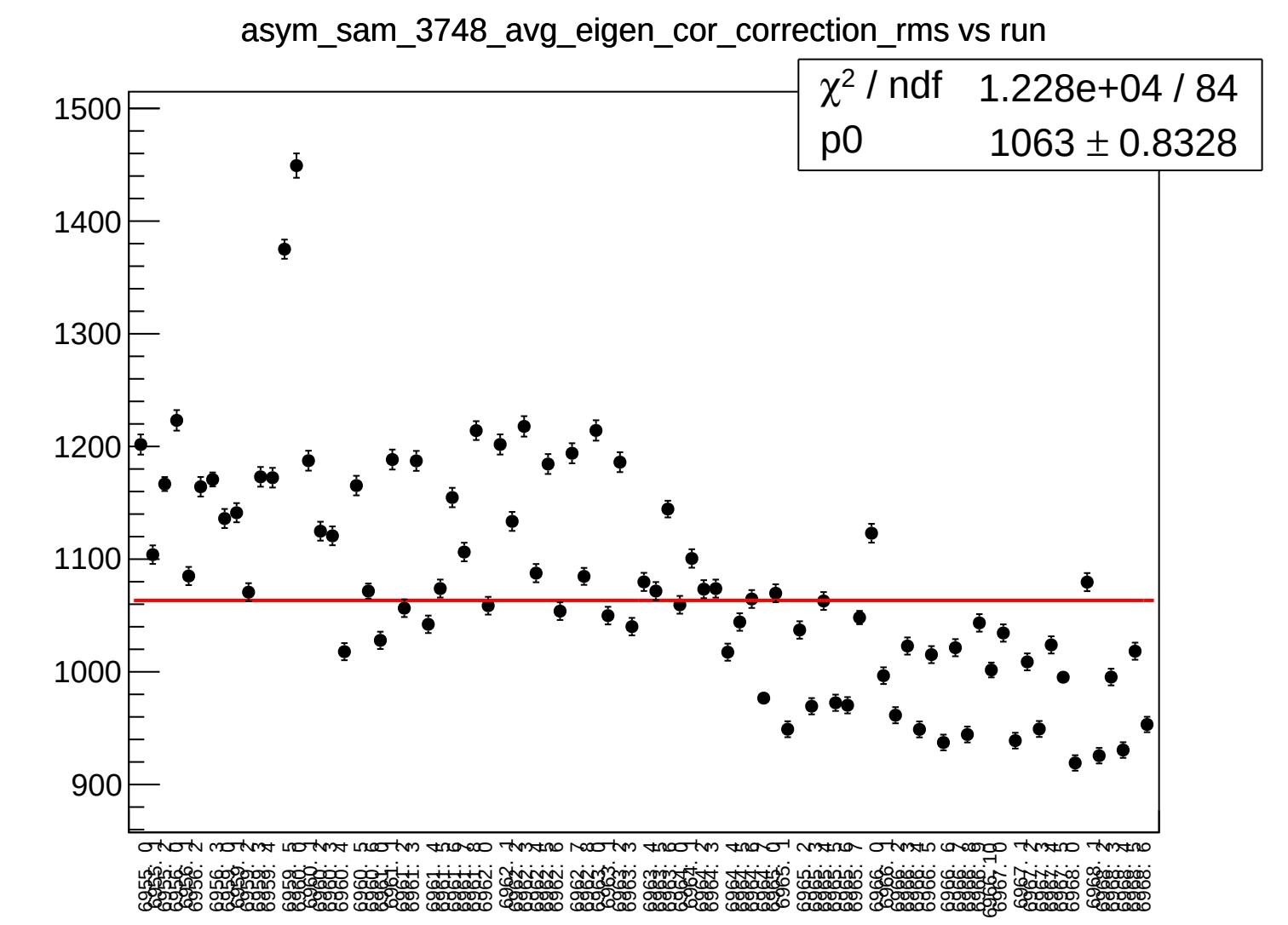

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 58.41 / 84
p0 169.7 ± 104.2
pull
Entries 85
Mean −61.53
Std Dev 0

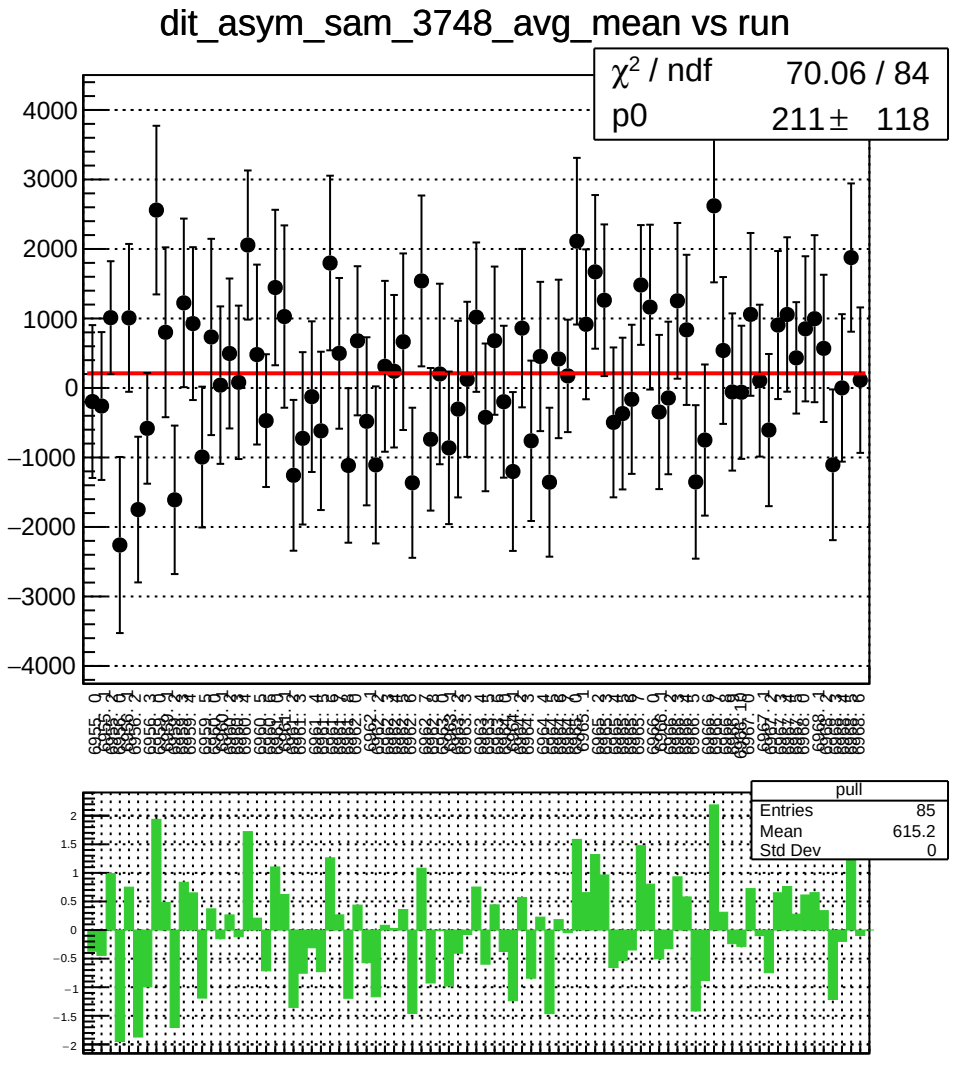

pull1D
Entries 85
Mean −0.001468
Std Dev 0.8289

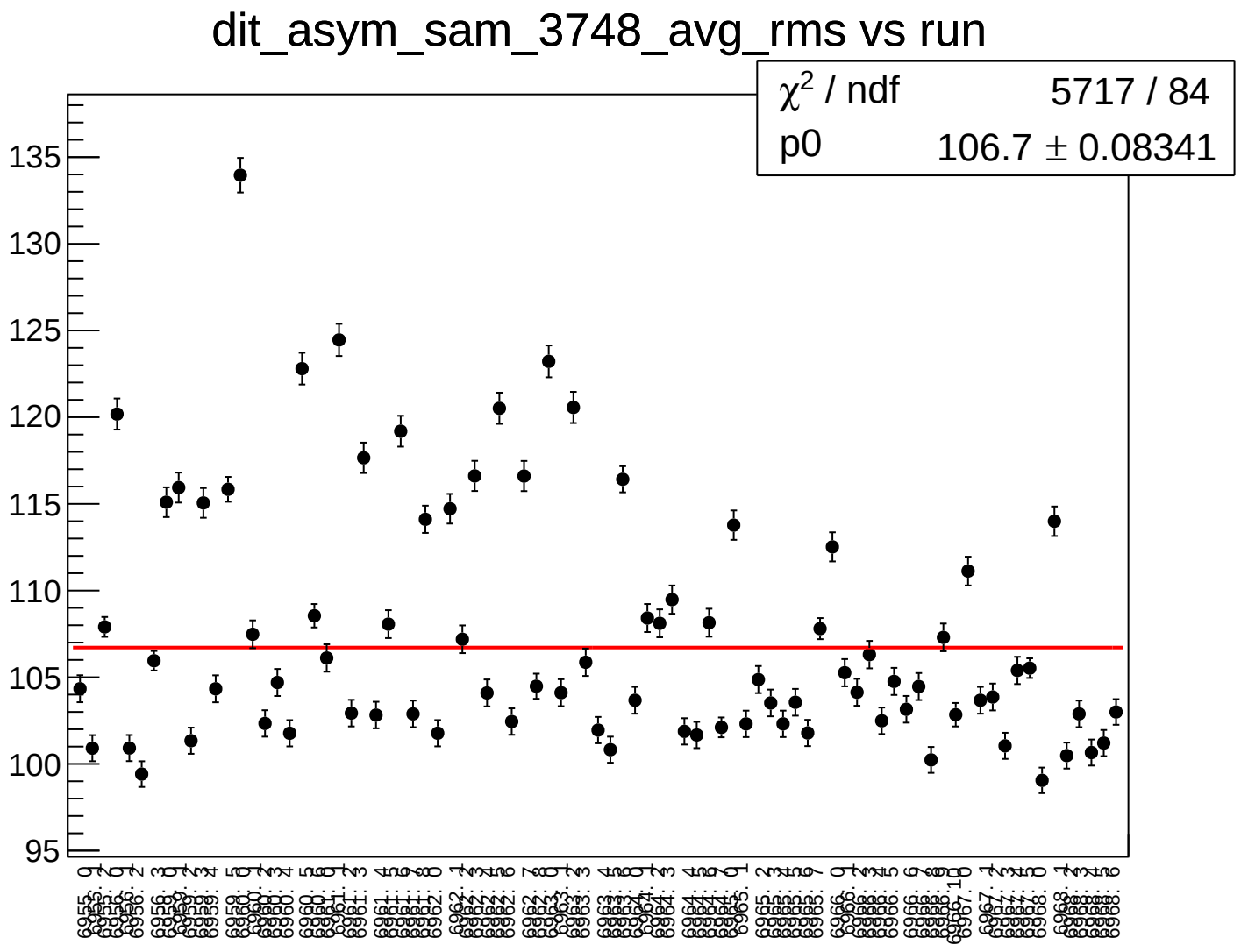

eigen_cor_asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 2611 / 84
p0 94.33 ± 0.07366
110
105
100
95
90

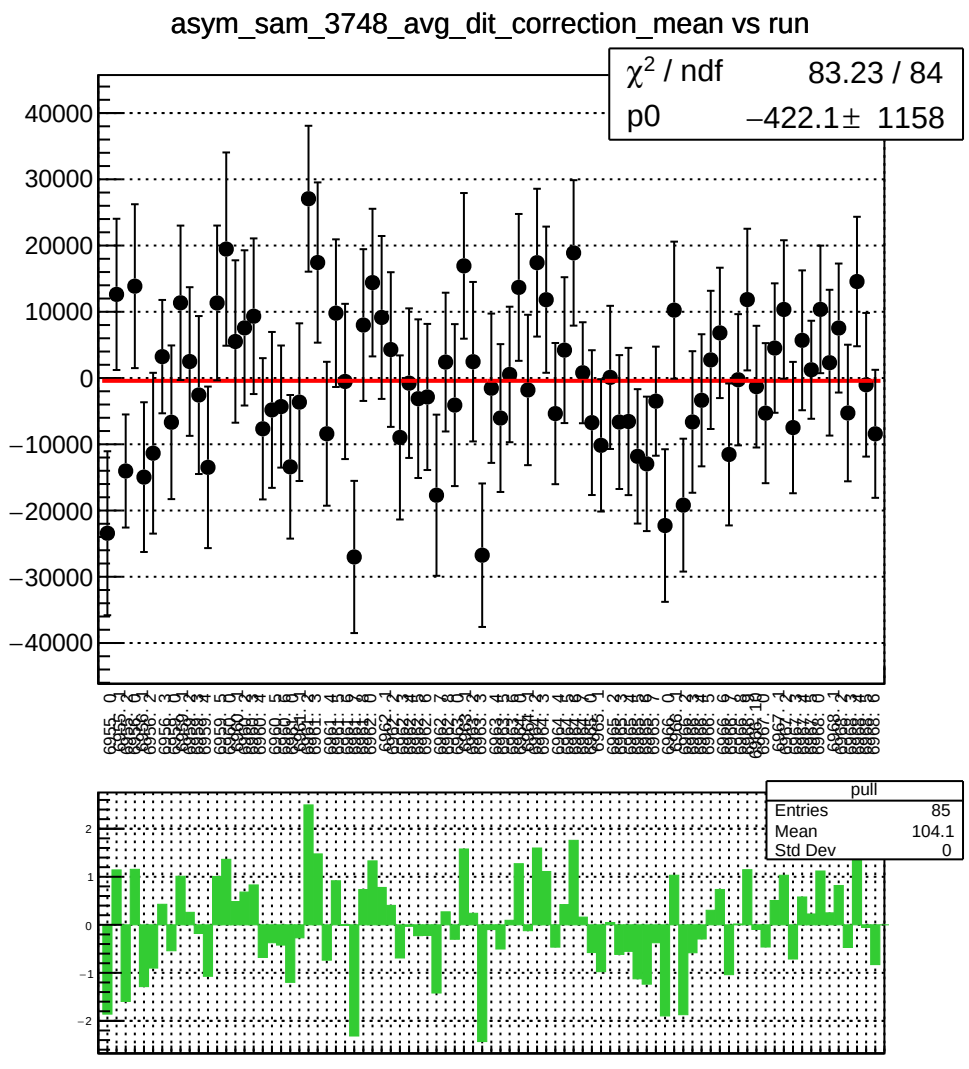

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.61 / 84
p0 −498.3 ± 1178
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 63.38
Std Dev 26.74
2
1
0
−1
−2

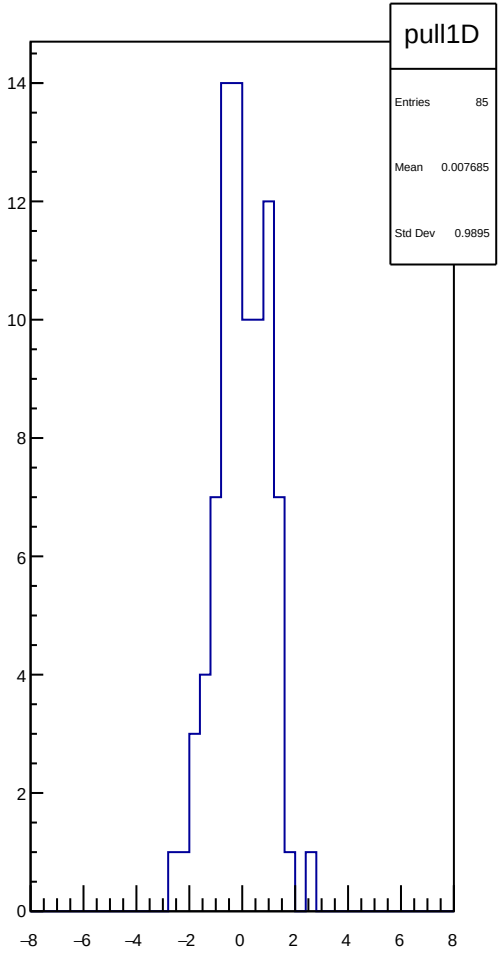

pull1D
Entries 85
Mean 0.008264
Std Dev 0.9918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

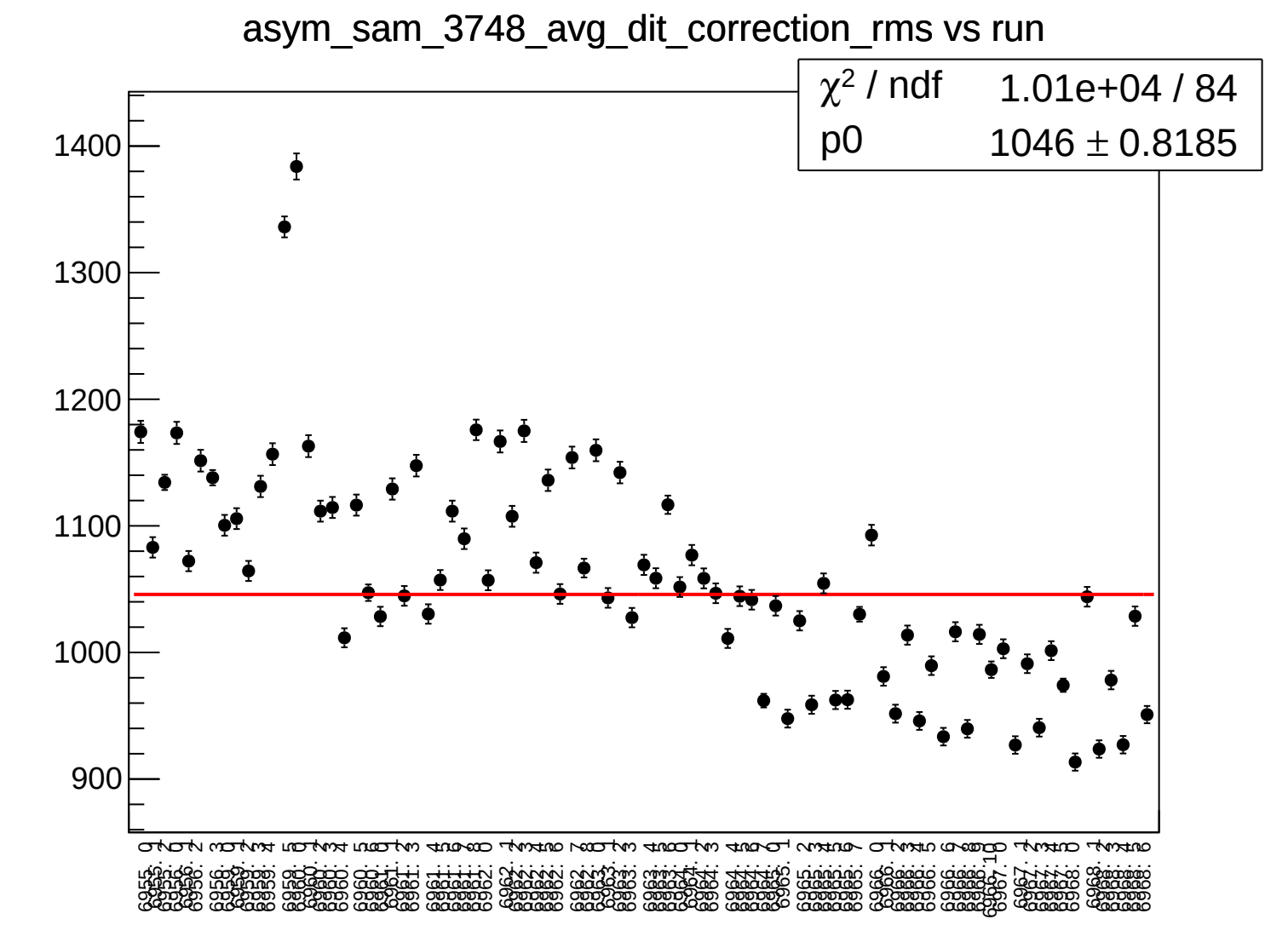

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.228e+04 / 84
p0 1063 ± 0.8328
1500
1400
1300
1200
1100
1000
900

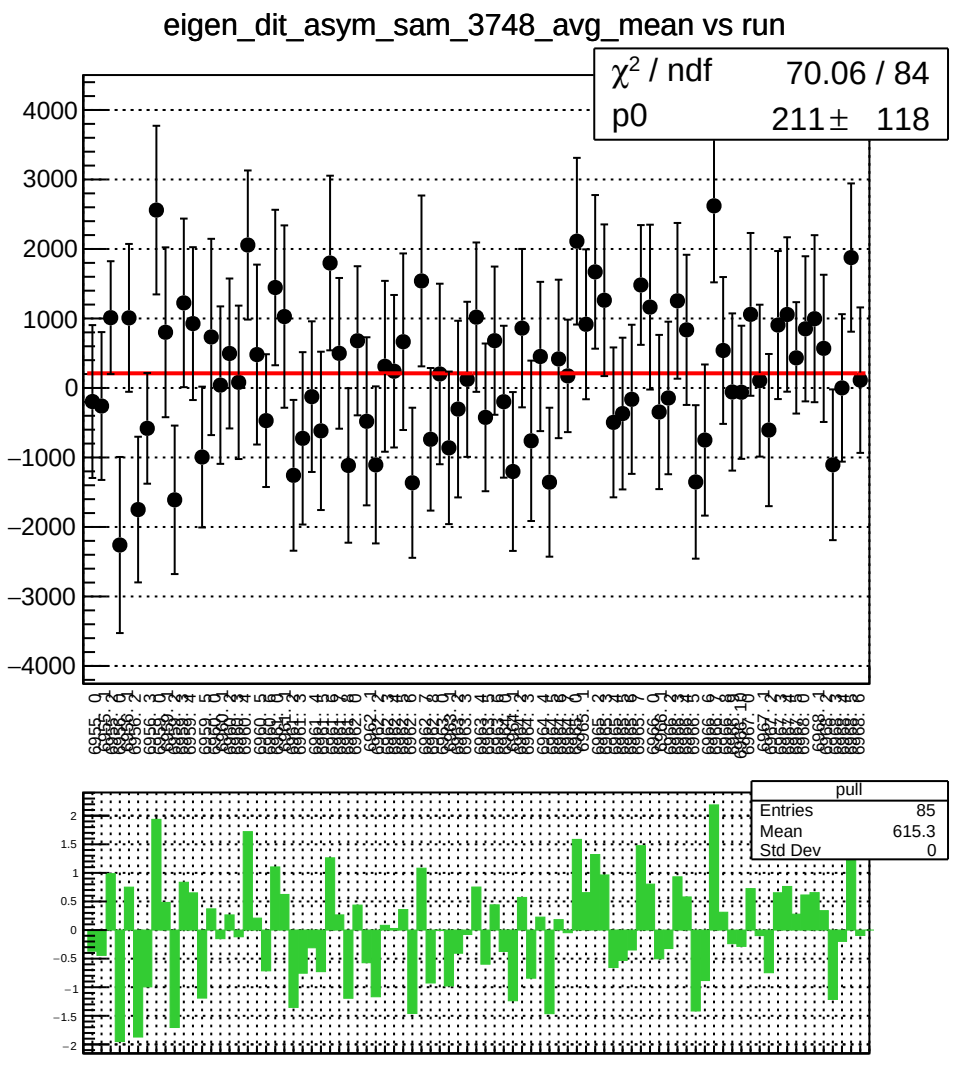

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 70.06 / 84
p0 211 ± 118
pull
Entries 85
Mean 615.2
Std Dev 0
pull1D
Entries 85
Mean 0.005874
Std Dev 0.9079

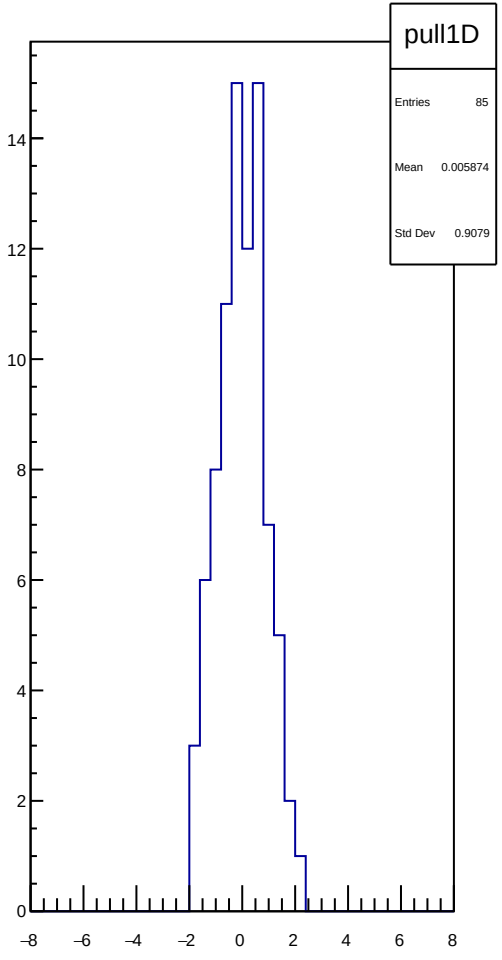

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 5717 / 84
p0 106.7 ± 0.08341
135
130
125
120
115
110
105
100
95

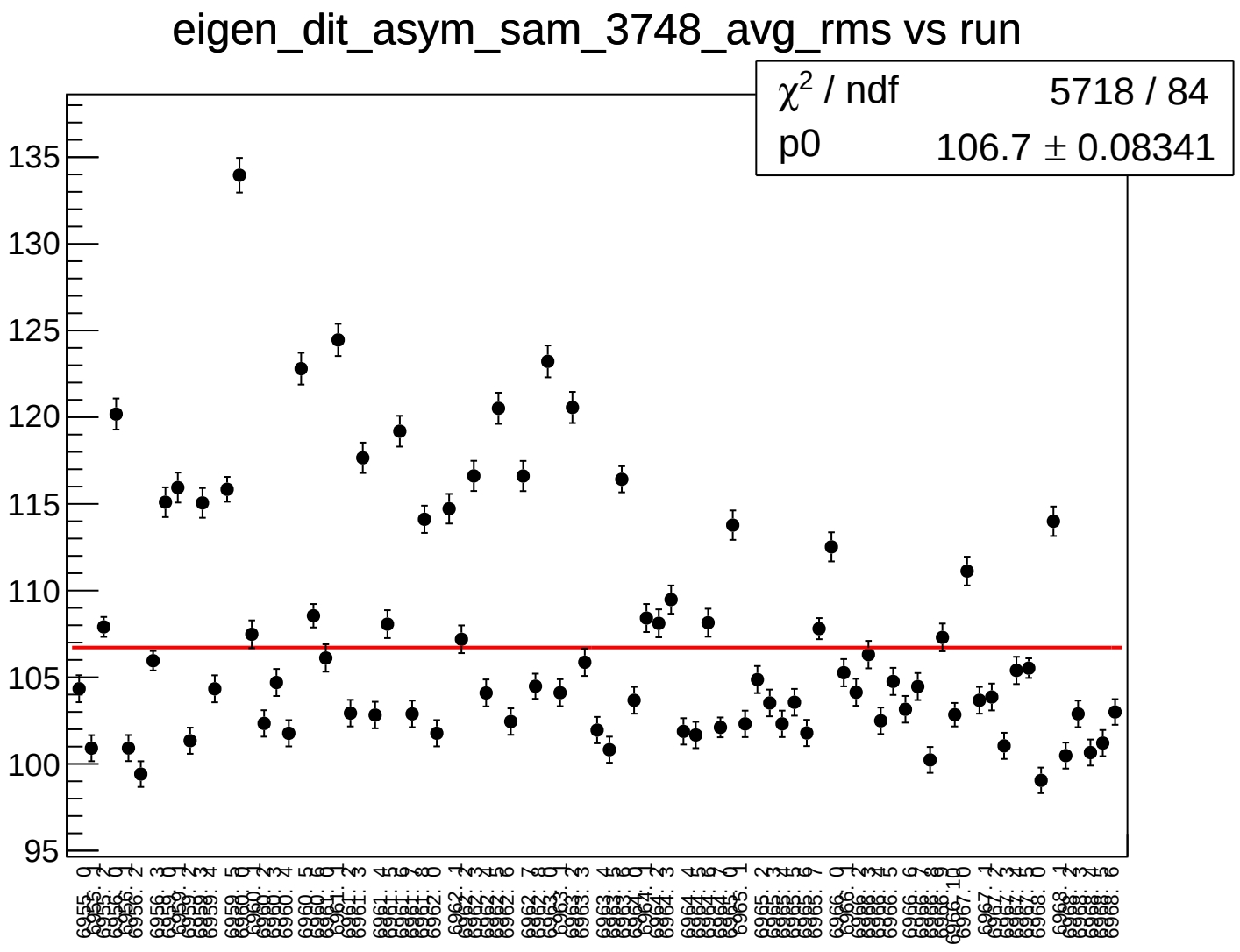

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 83.23 / 84
p0 −422.1± 1158
pull
Entries 85
Mean 104.1
Std Dev 0

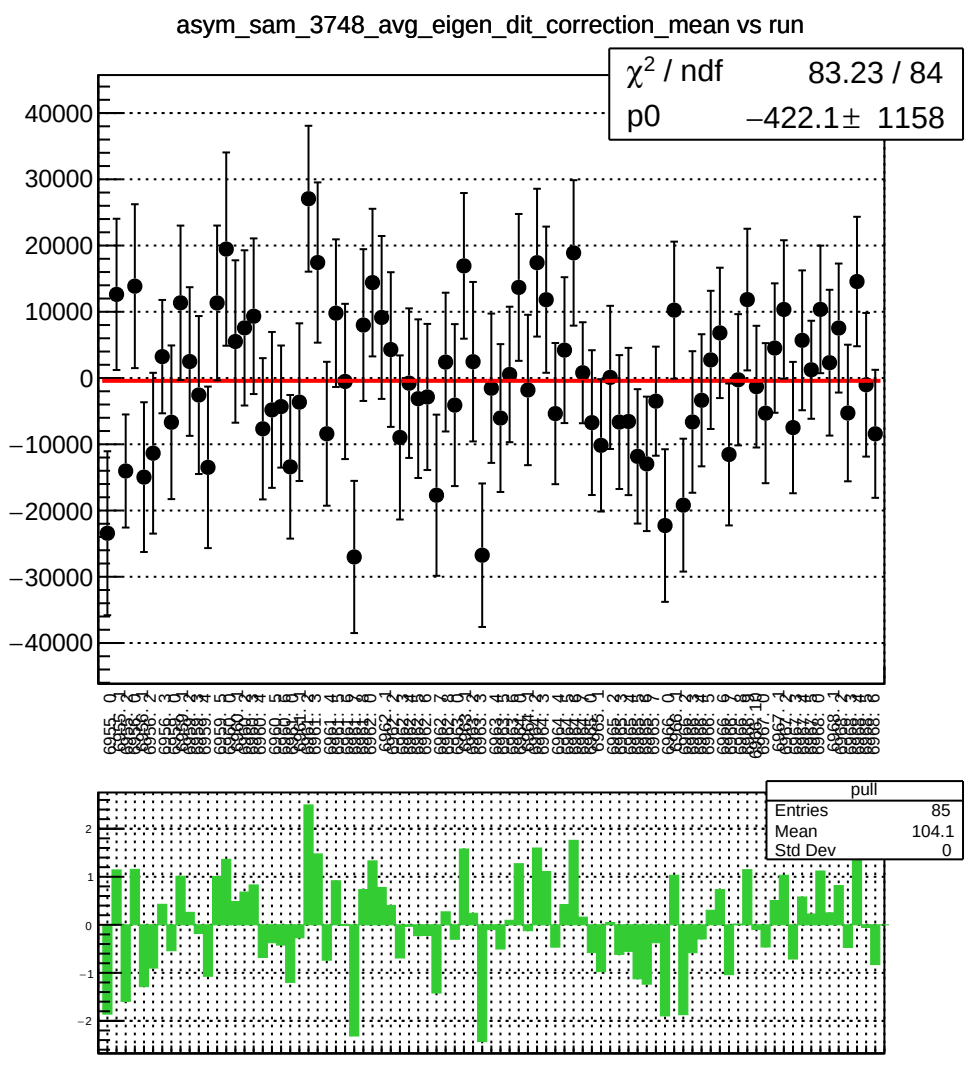

pull1D
Entries 85
Mean 0.007685
Std Dev 0.9895

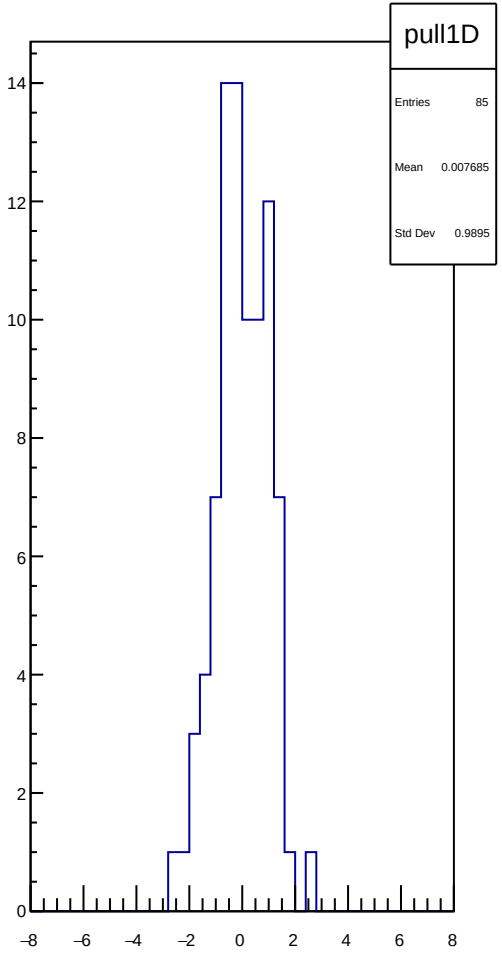

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1.01e+04 / 84
p0 1046 ± 0.8185
1400
1300
1200
1100
1000
900

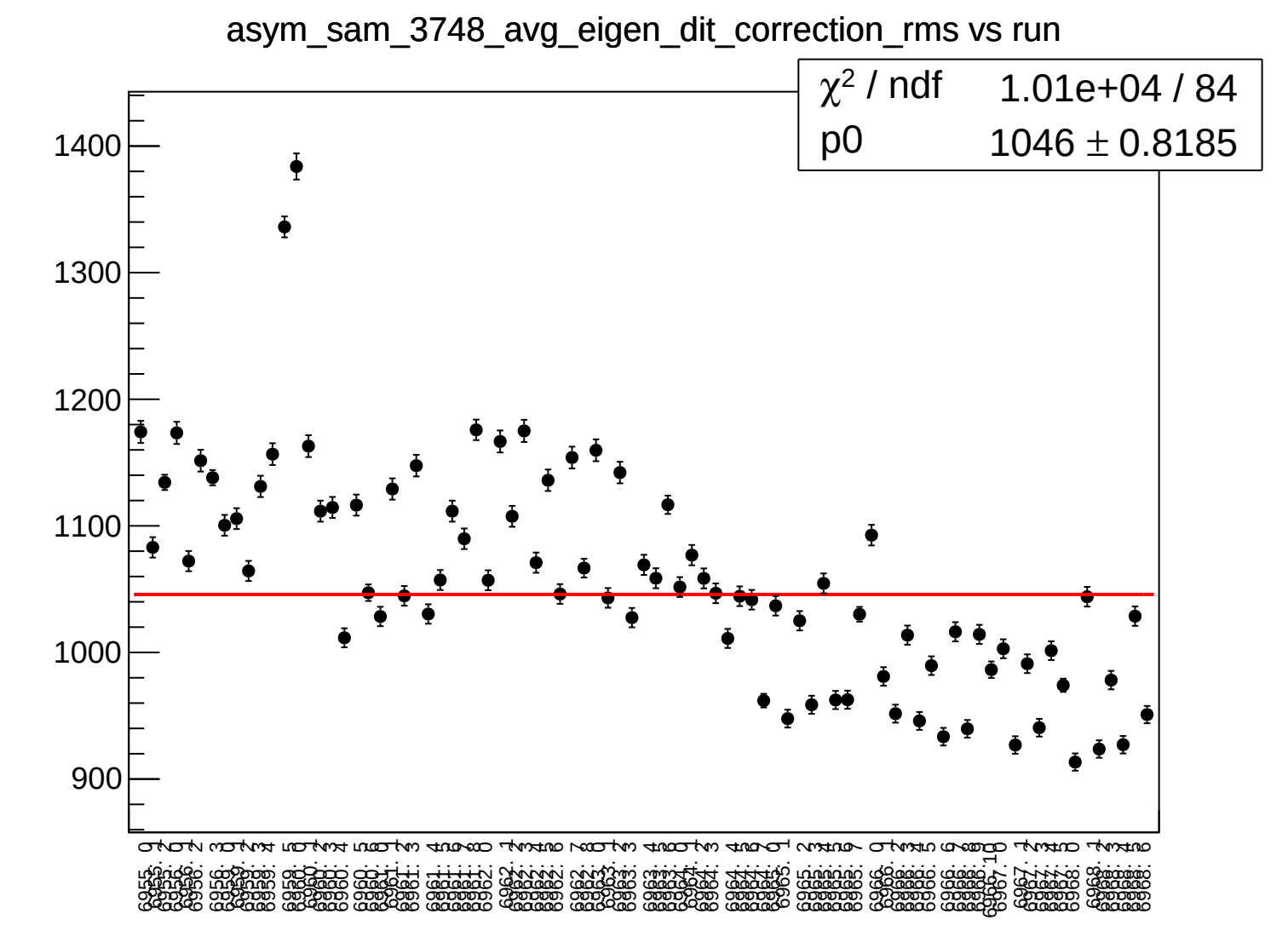

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 70.06 / 84
p0 211 ± 118
pull
Entries 85
Mean 615.3
Std Dev 0

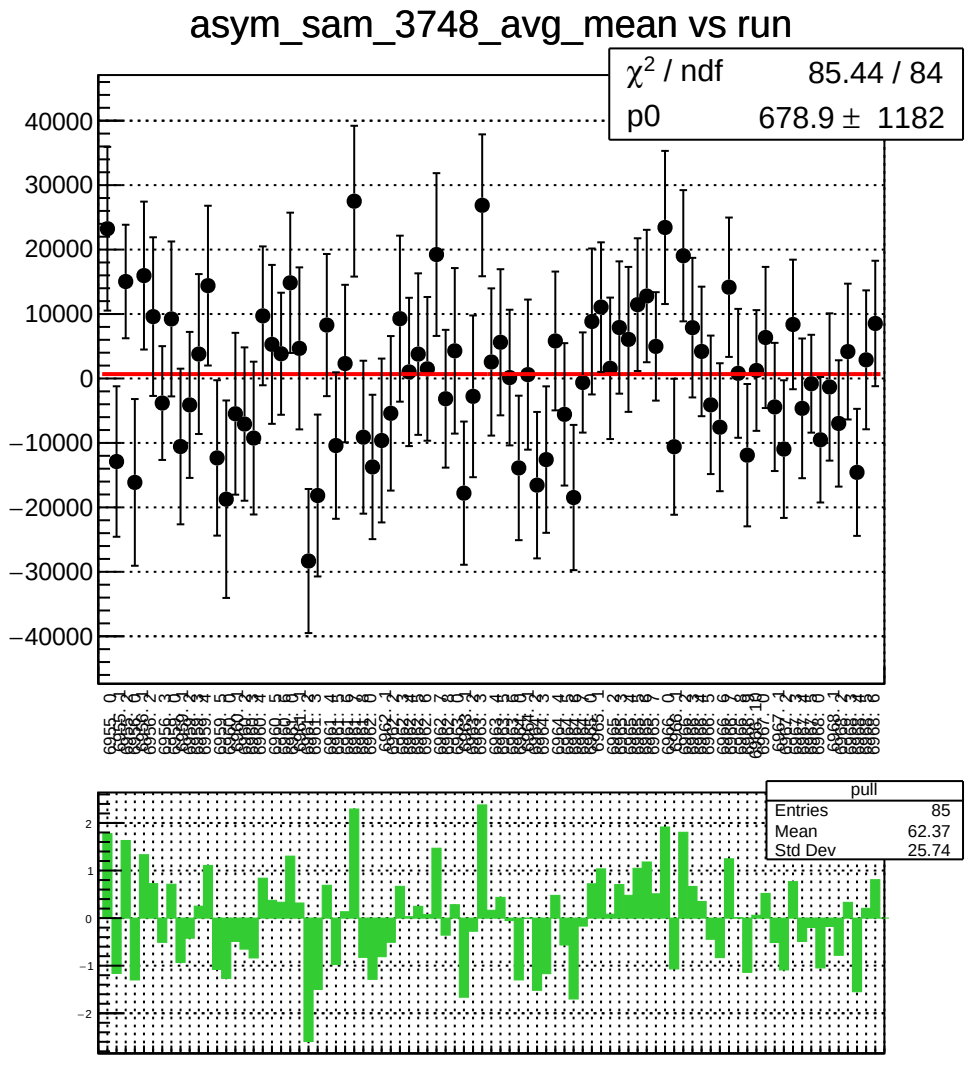

pull1D
Entries 85
Mean 0.005874
Std Dev 0.9079

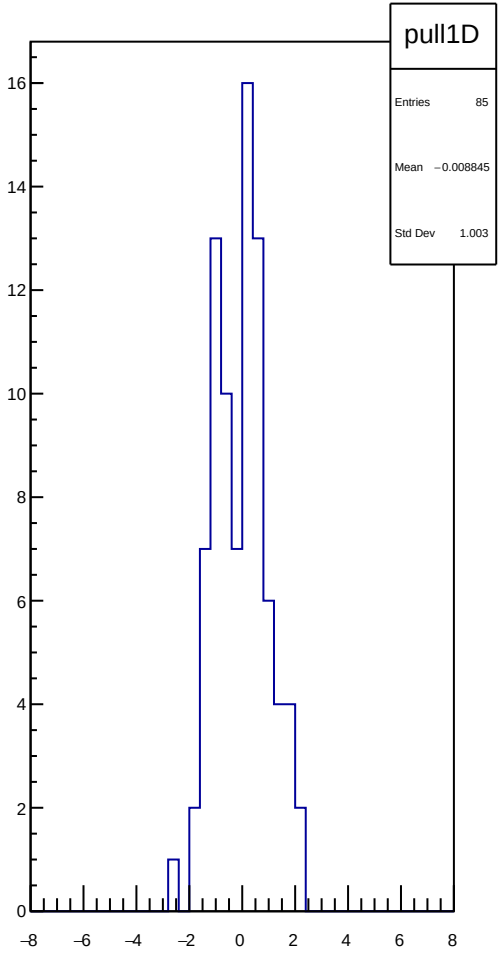

eigen_dit_asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 5718 / 84
p0 106.7 ± 0.08341
135
130
125
120
115
110
105
100
95

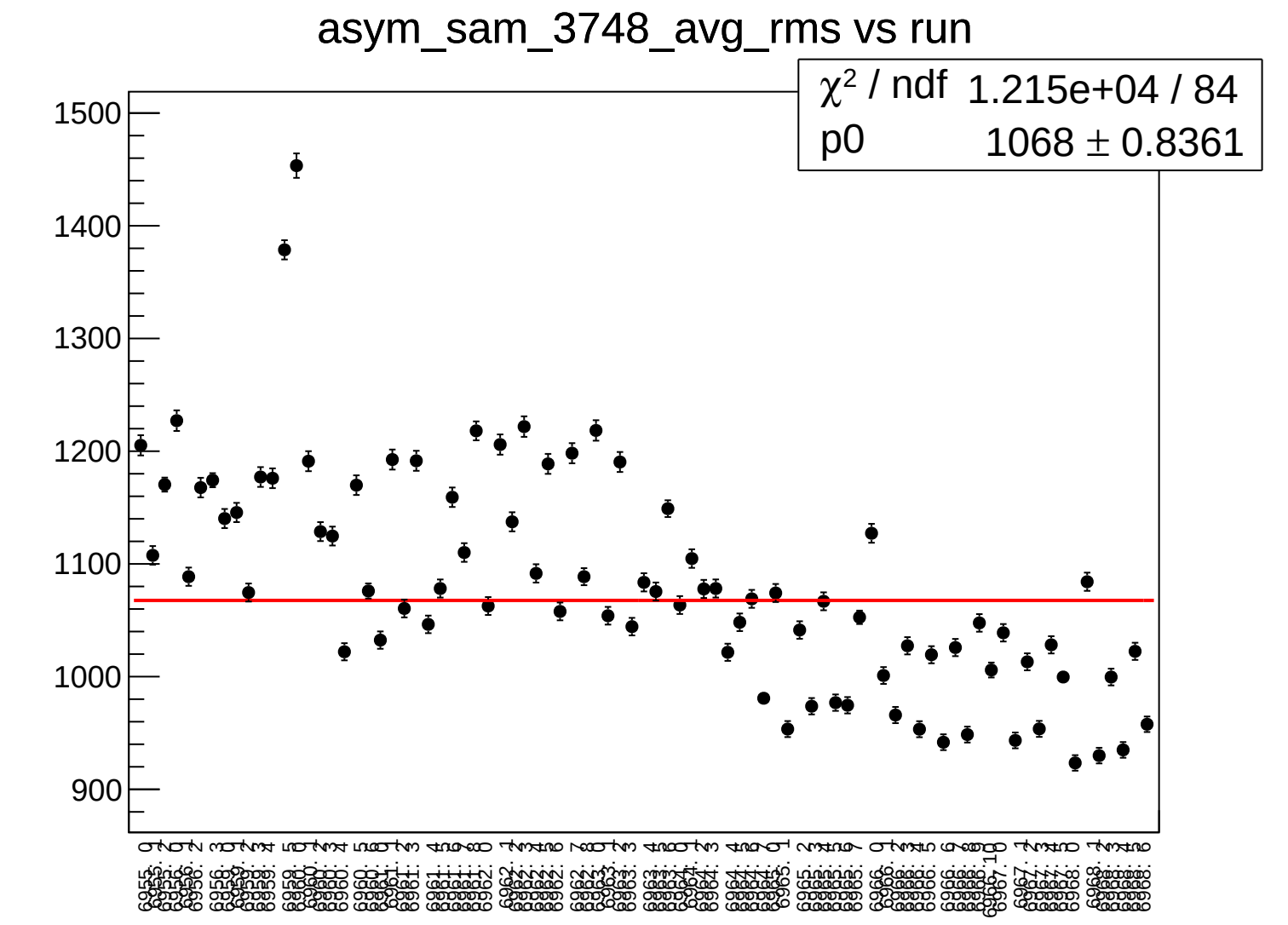

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.23 / 84
p0 −422.1± 1158
pull
Entries 85
Mean 104.1
Std Dev 0

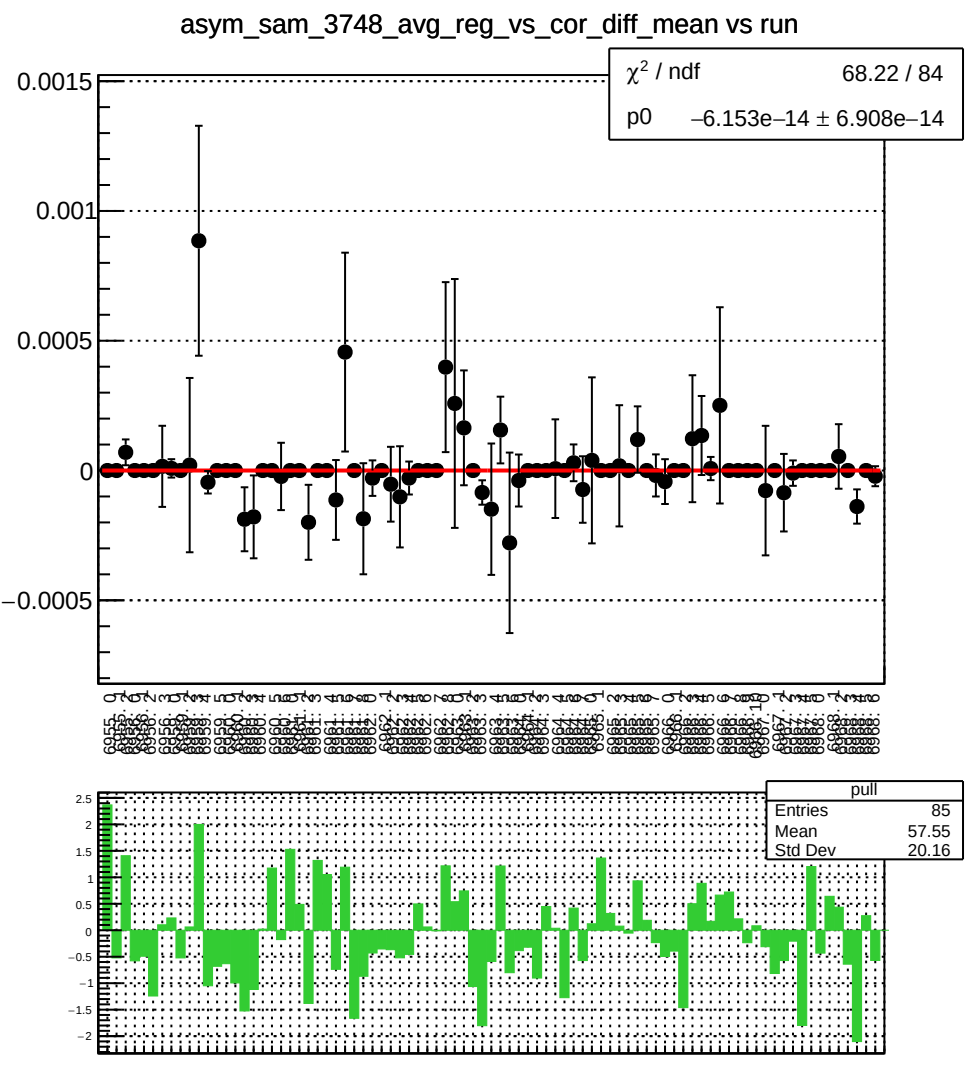

pull1D
Entries 85
Mean 0.007685
Std Dev 0.9895

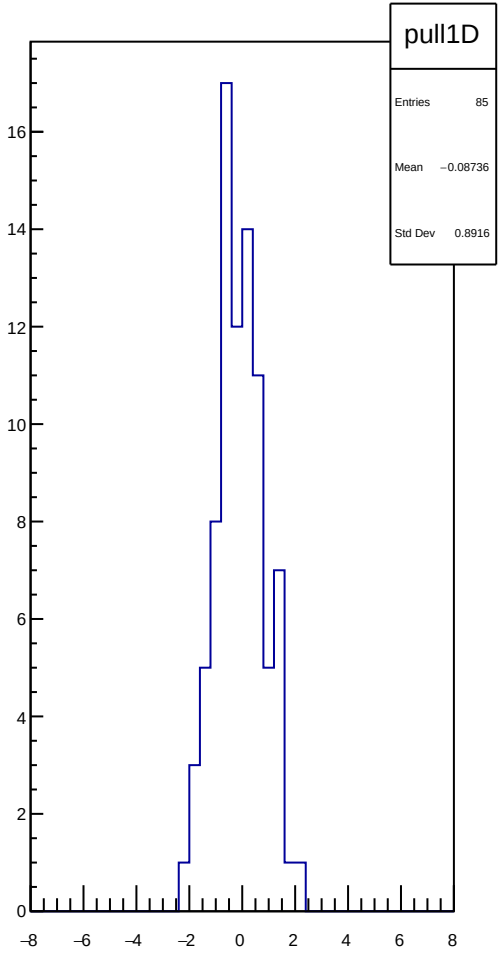

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.01e+04 / 84
p0 1046 ± 0.8185
1400
1300
1200
1100
1000
900

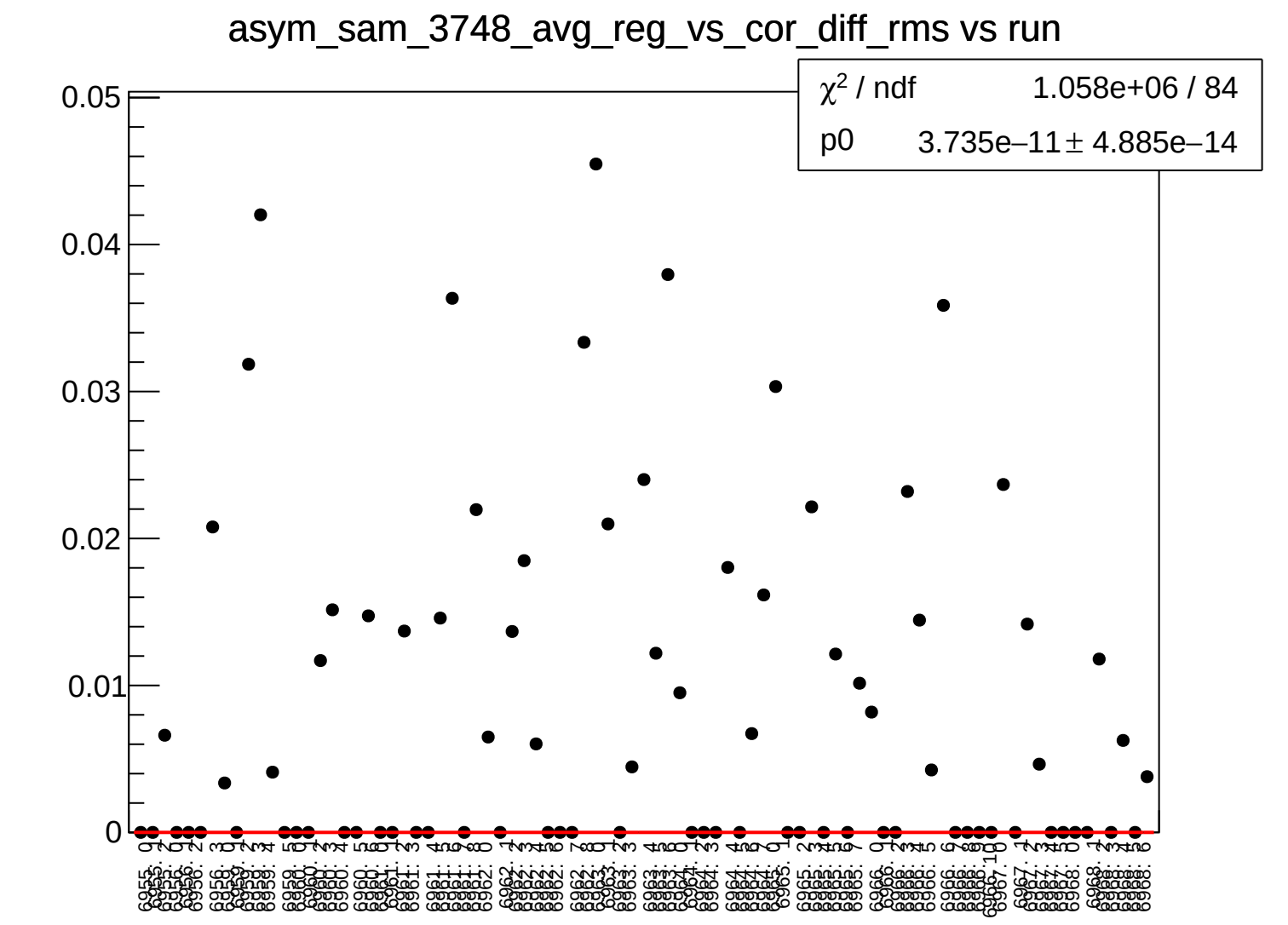

asym_sam_3748_avg_mean vs run
χ² / ndf 85.44 / 84
p0 678.9 ± 1182
pull
Entries 85
Mean 62.37
Std Dev 25.74

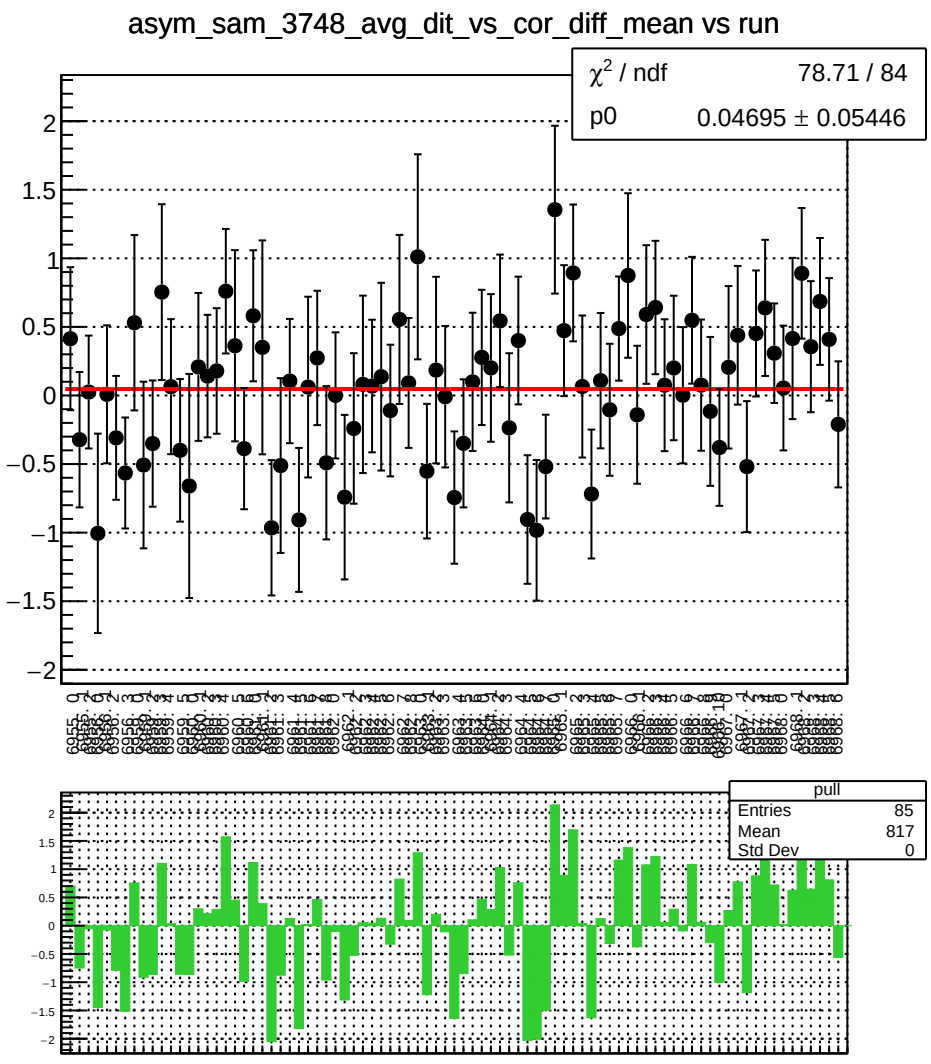

pull1D
Entries 85
Mean −0.008845
Std Dev 1.003

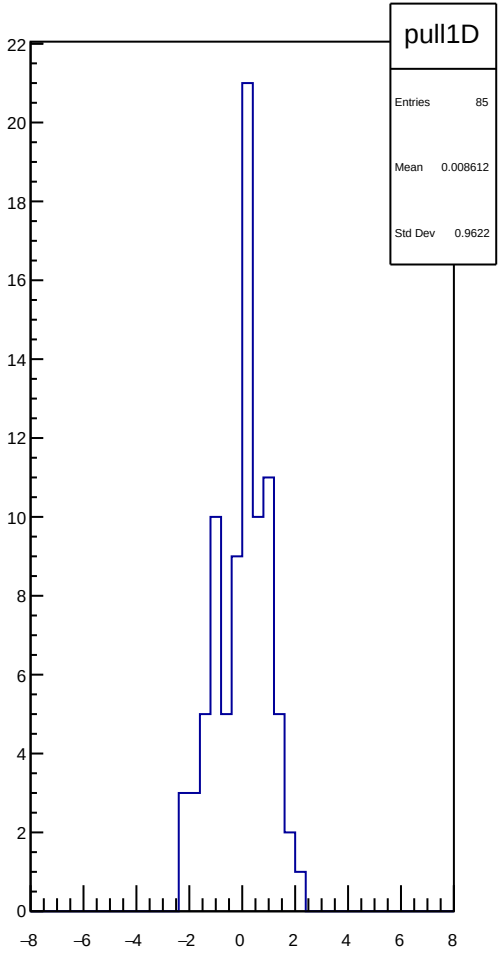

asym_sam_3748_avg_rms vs run
χ² / ndf 1.215e+04 / 84
p0 1068 ± 0.8361
1500
1400
1300
1200
1100
1000
900

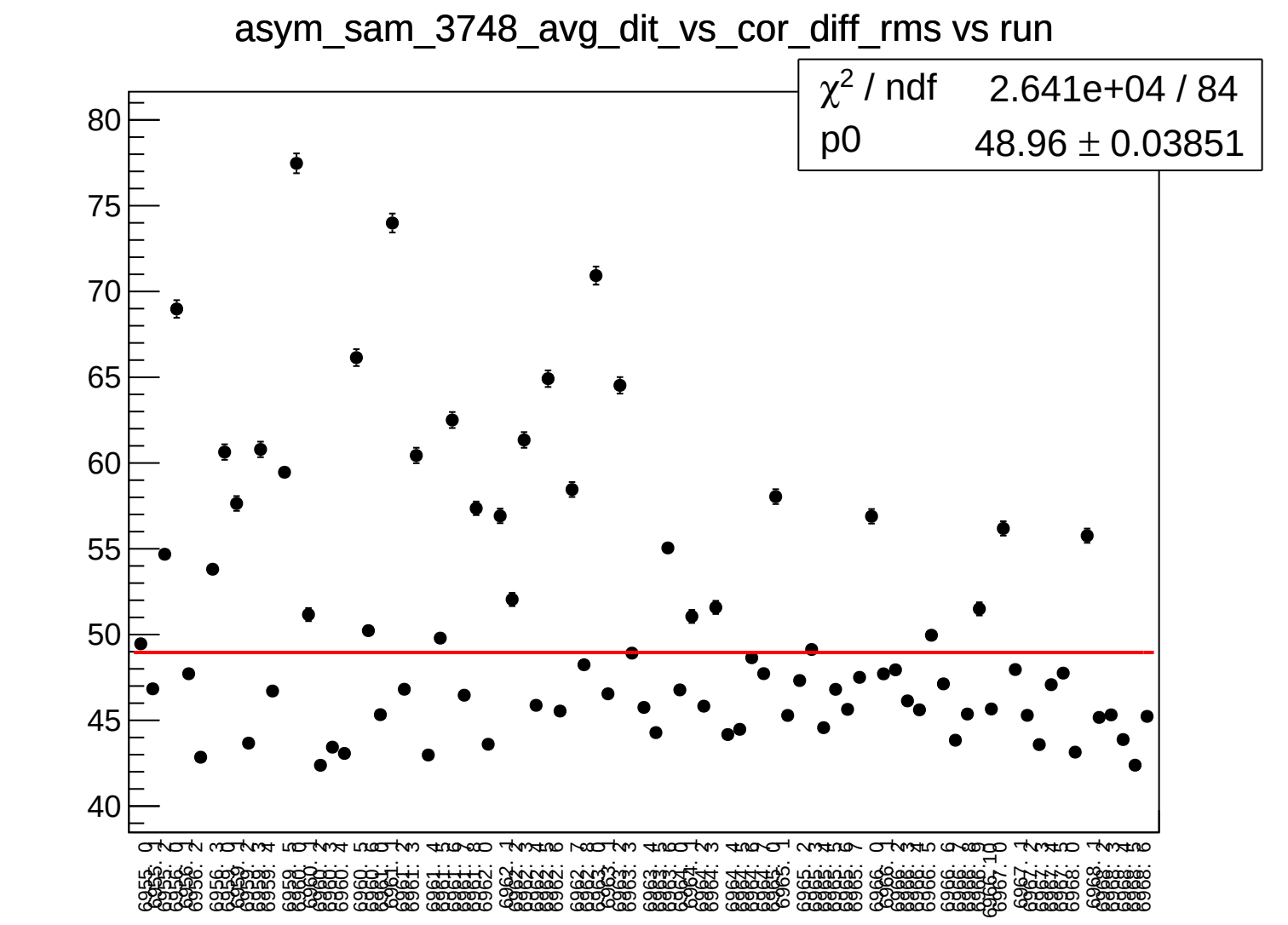

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.22 / 84
p0 −6.153e−14 ± 6.908e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 85
Mean 57.55
Std Dev 20.16
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

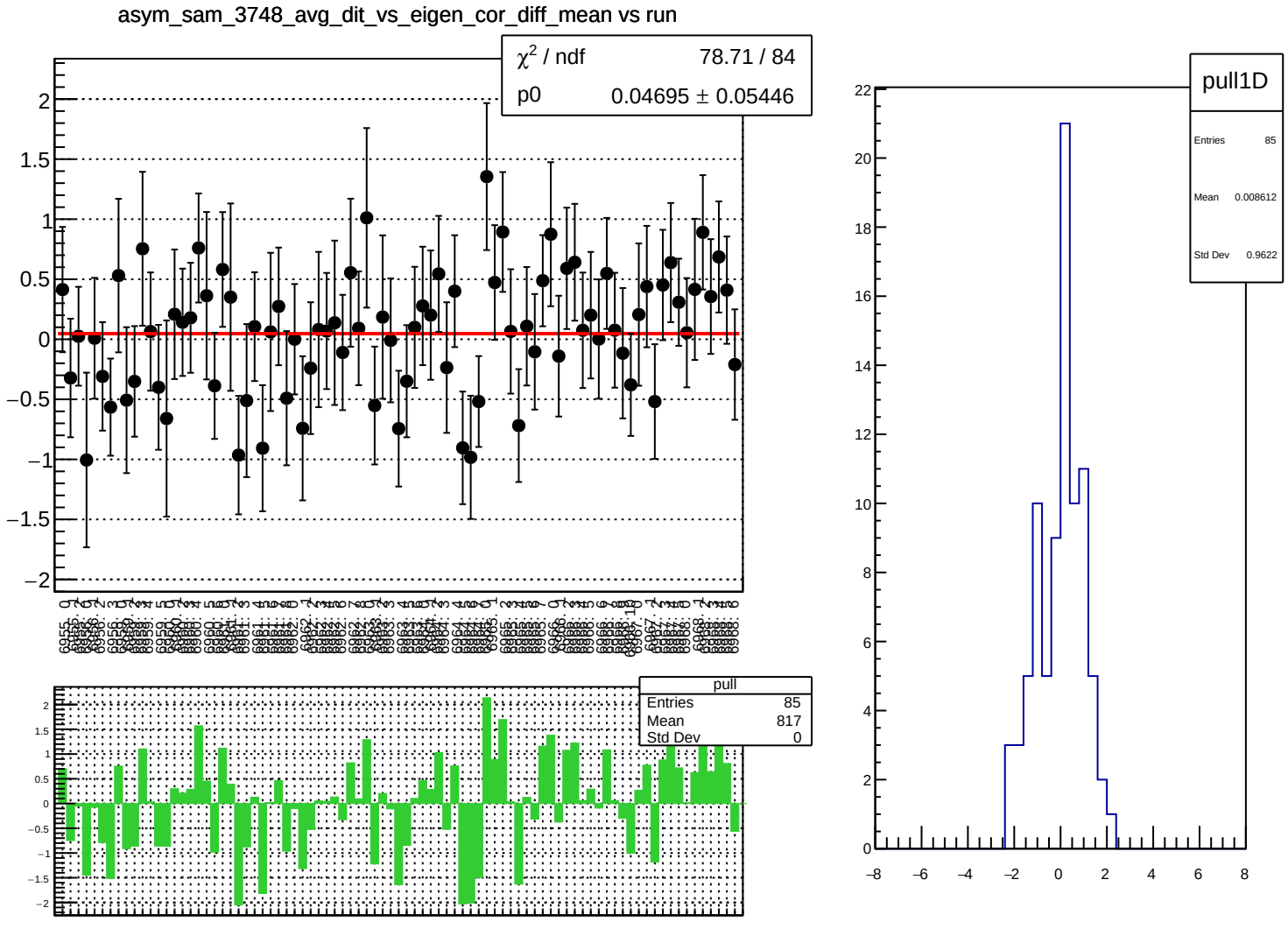

pull1D
Entries 85
Mean −0.08736
Std Dev 0.8916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

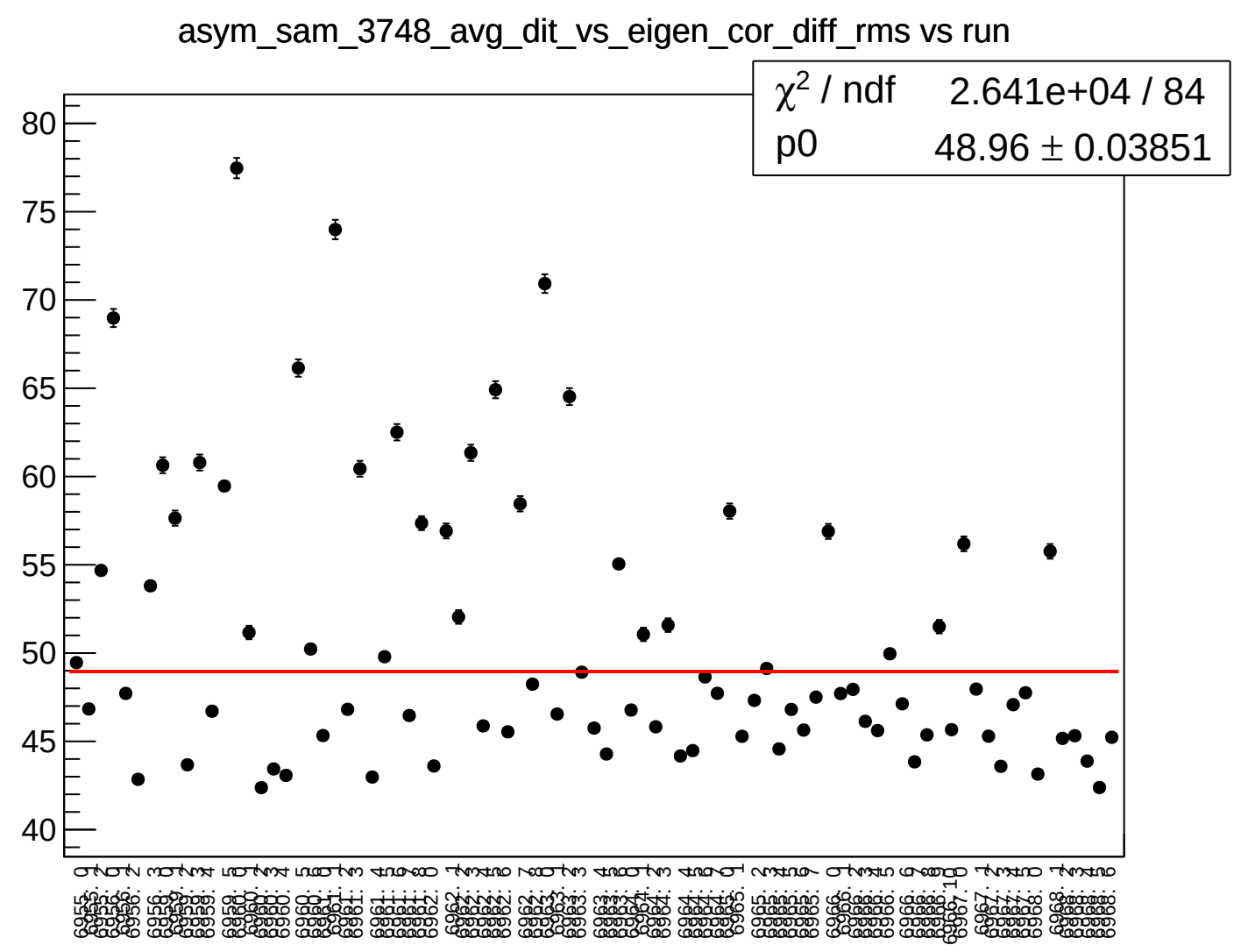

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.058e+06 / 84
p0 3.735e−11 ± 4.885e−14
0.05
0.04
0.03
0.02
0.01
0

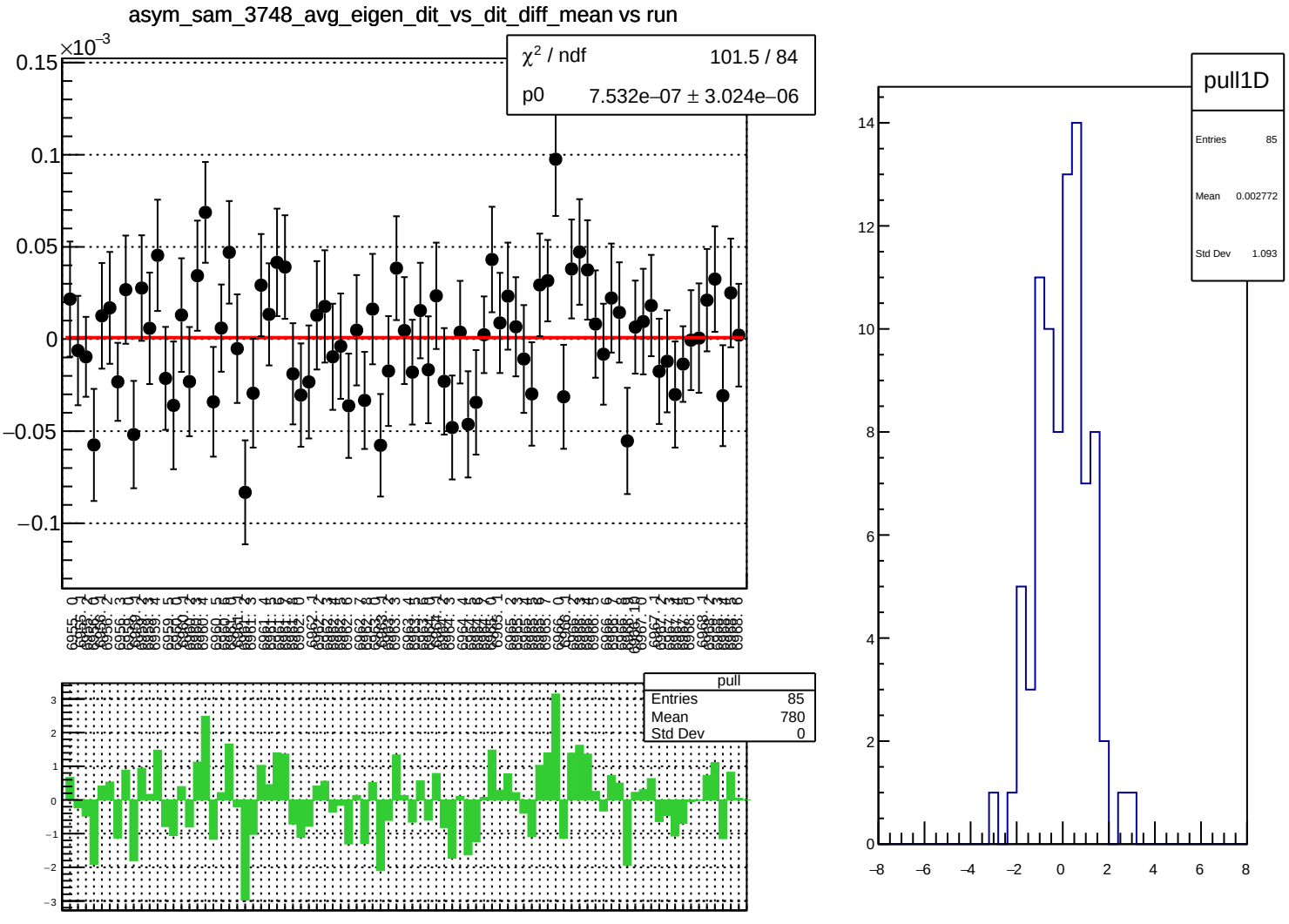

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.71 / 84
p0 0.04695 ± 0.05446
pull
Entries 85
Mean 817
Std Dev 0

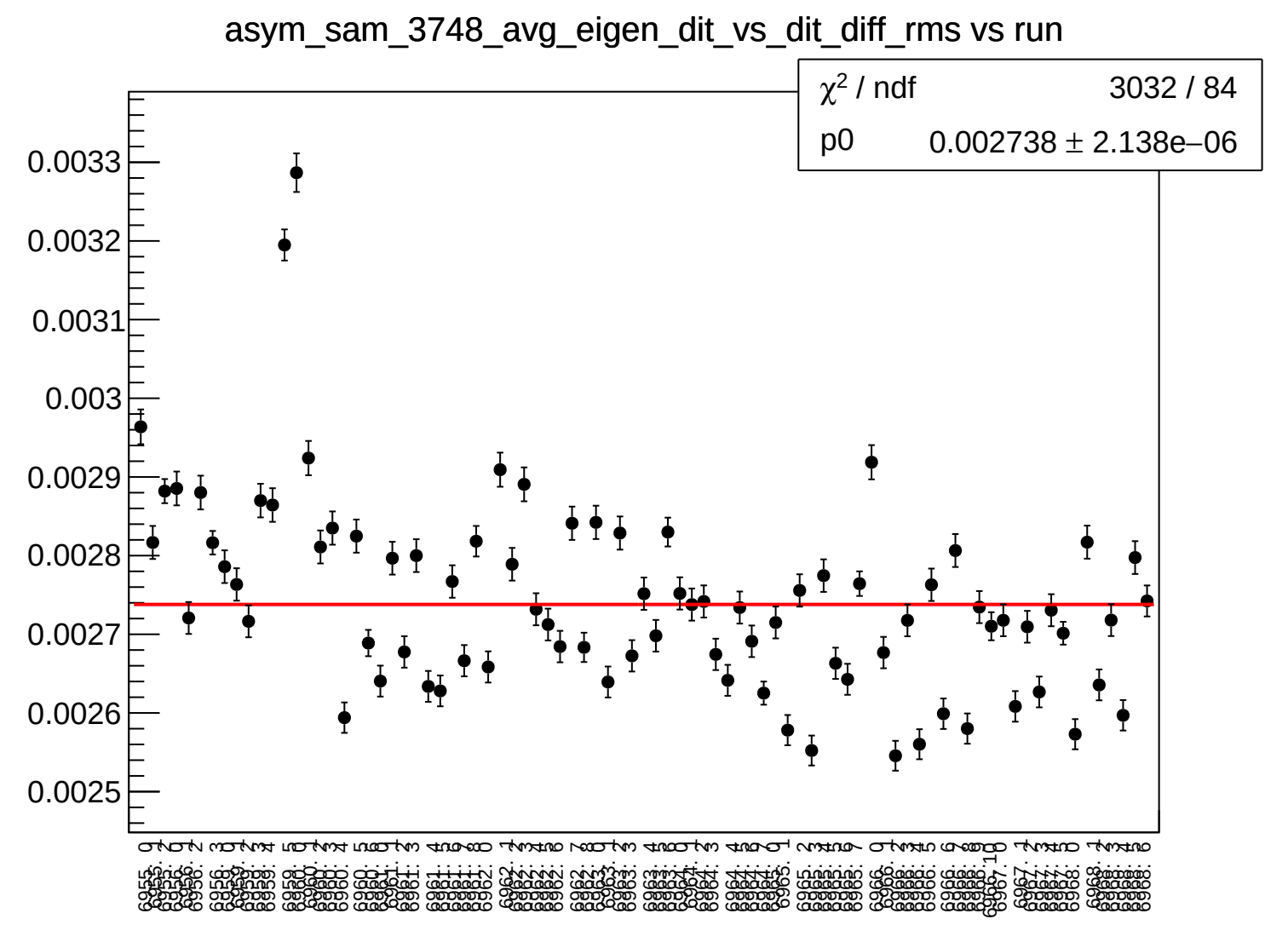

pull1D
Entries 85
Mean 0.008612
Std Dev 0.9622

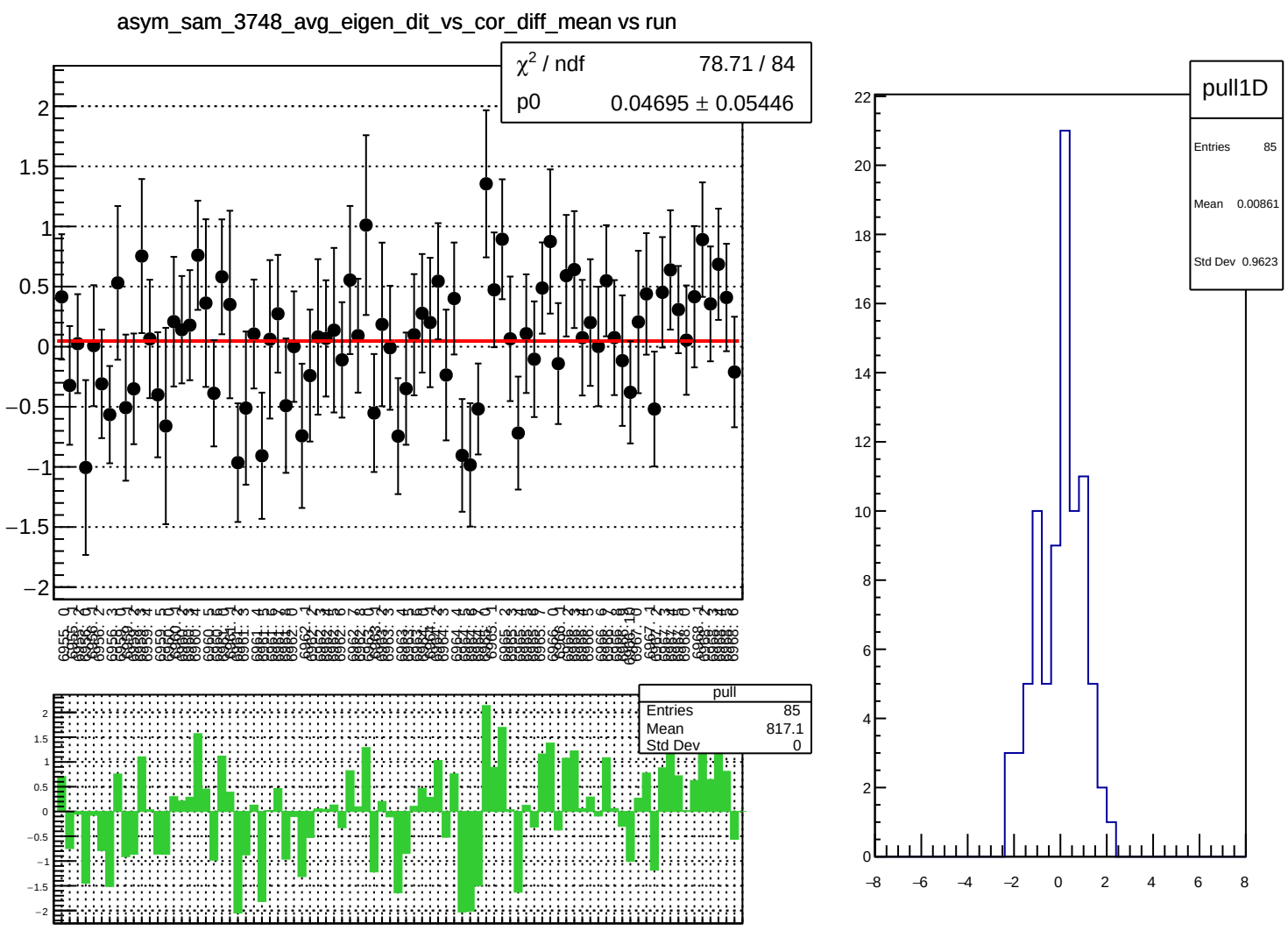

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.641e+04 / 84
p0 48.96 ± 0.03851
80
75
70
65
60
55
50
45
40

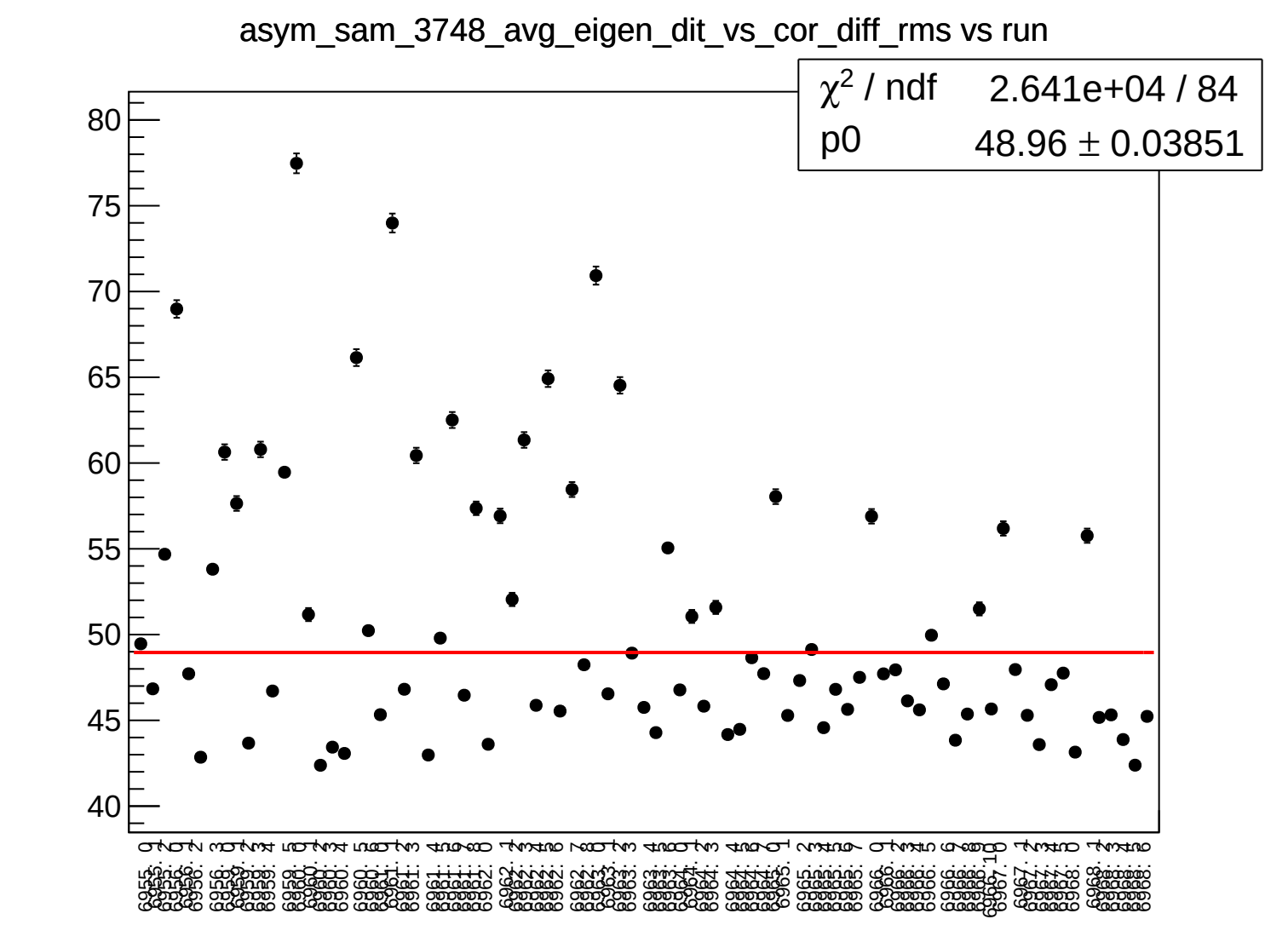

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.71 / 84
p0 0.04695 ± 0.05446
pull
Entries 85
Mean 817
Std Dev 0
pull1D
Entries 85
Mean 0.008612
Std Dev 0.9622


asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 2.641e+04 / 84
p0 48.96 ± 0.03851
80
75
70
65
60
55
50
45
40

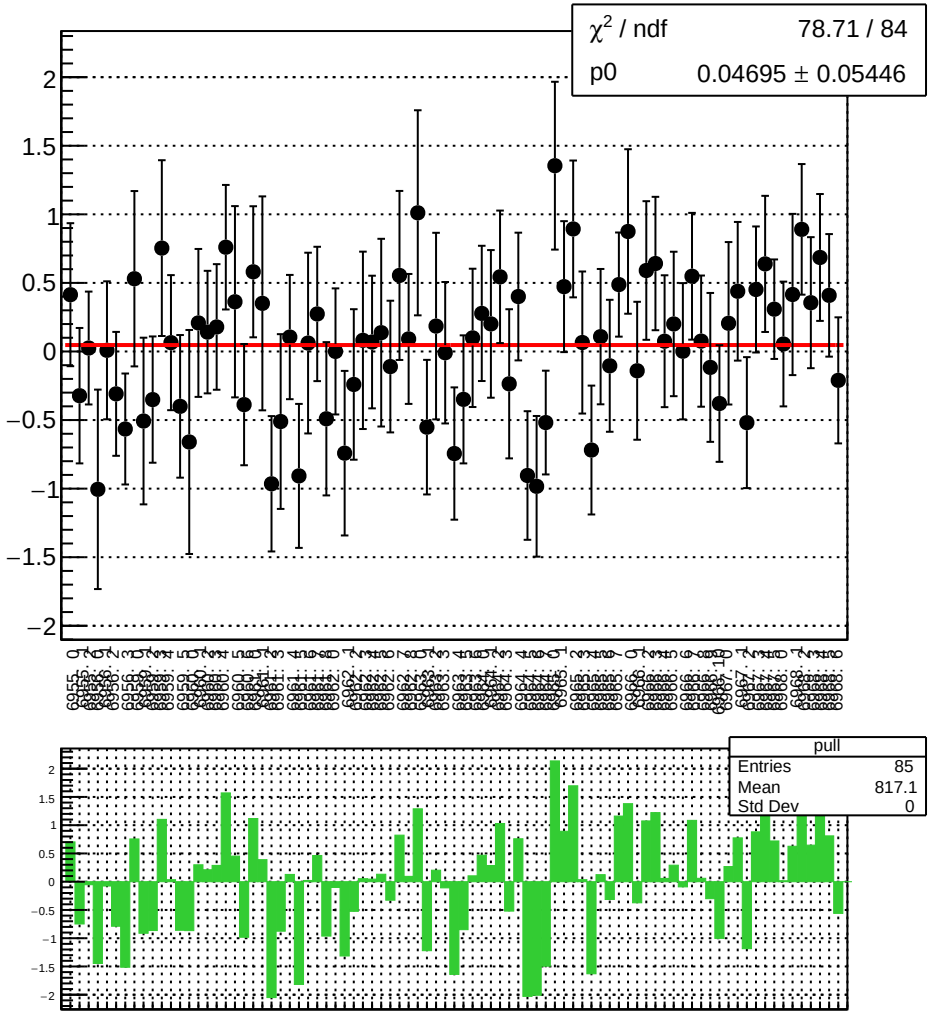

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.5 / 84
p0 7.532e−07 ± 3.024e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 780
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.002772
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

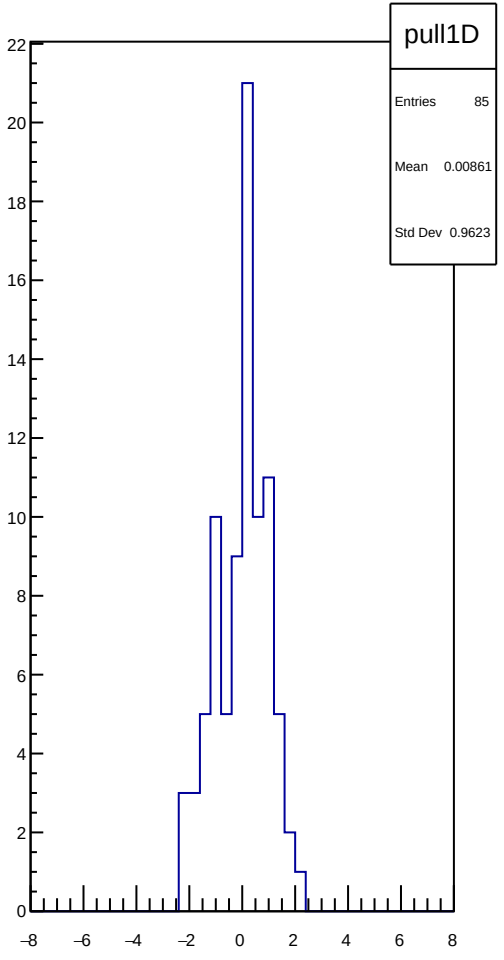

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3032 / 84
p0 0.002738 ± 2.138e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

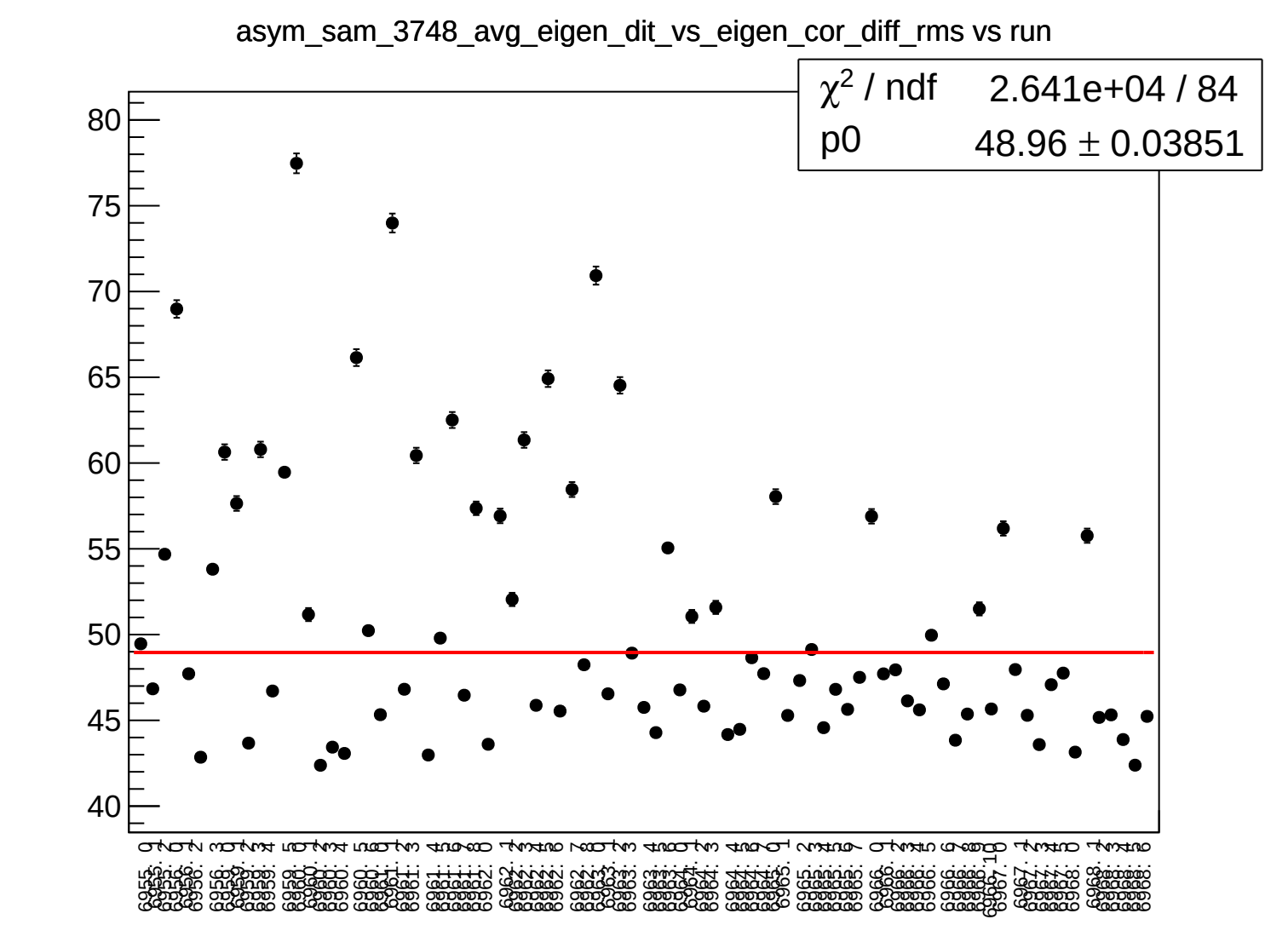

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.71 / 84
p0 0.04695 ± 0.05446
pull
Entries 85
Mean 817.1
Std Dev 0
pull1D
Entries 85
Mean 0.00861
Std Dev 0.9623

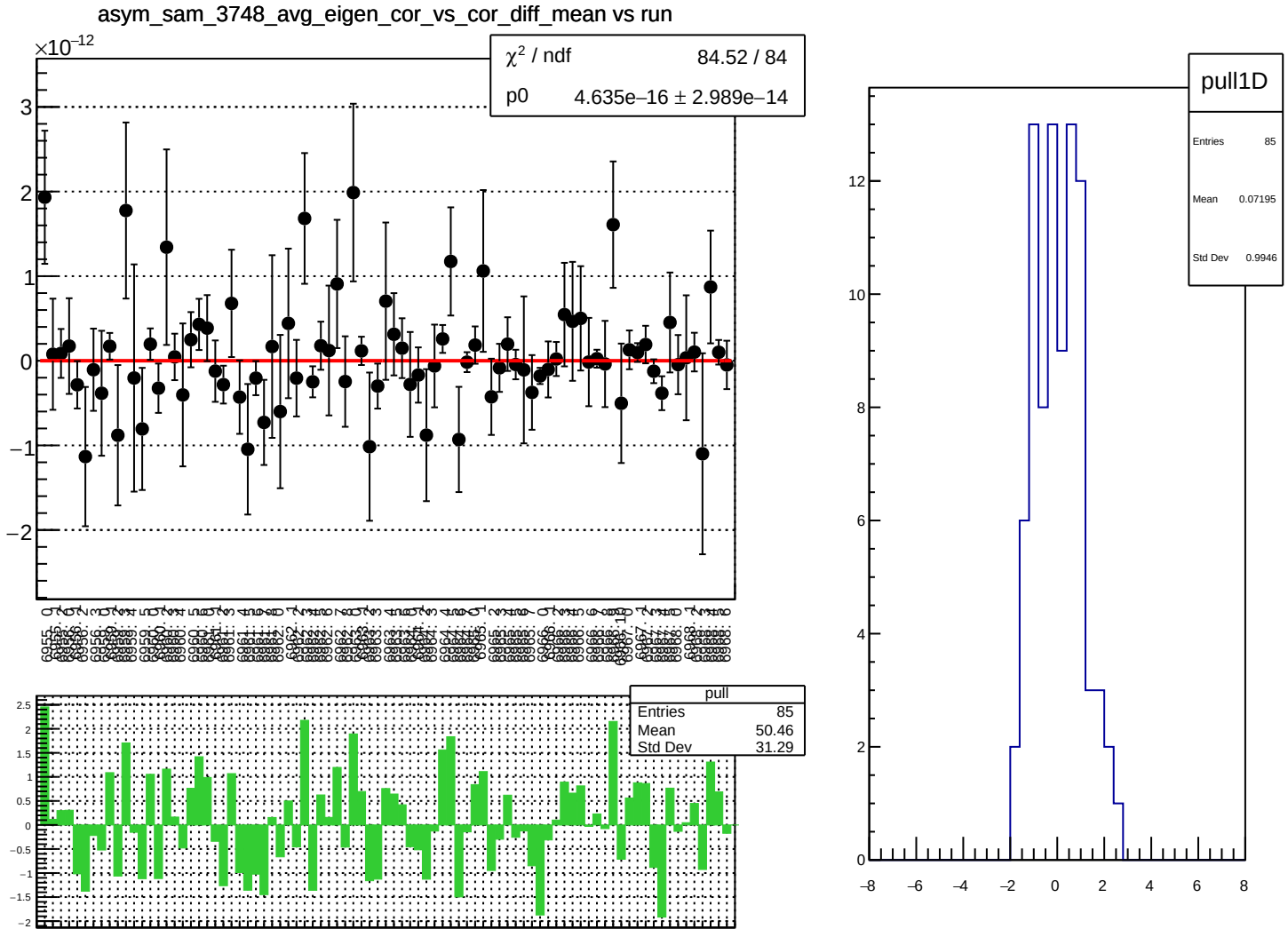

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.641e+04 / 84
p0 48.96 ± 0.03851
80
75
70
65
60
55
50
45
40

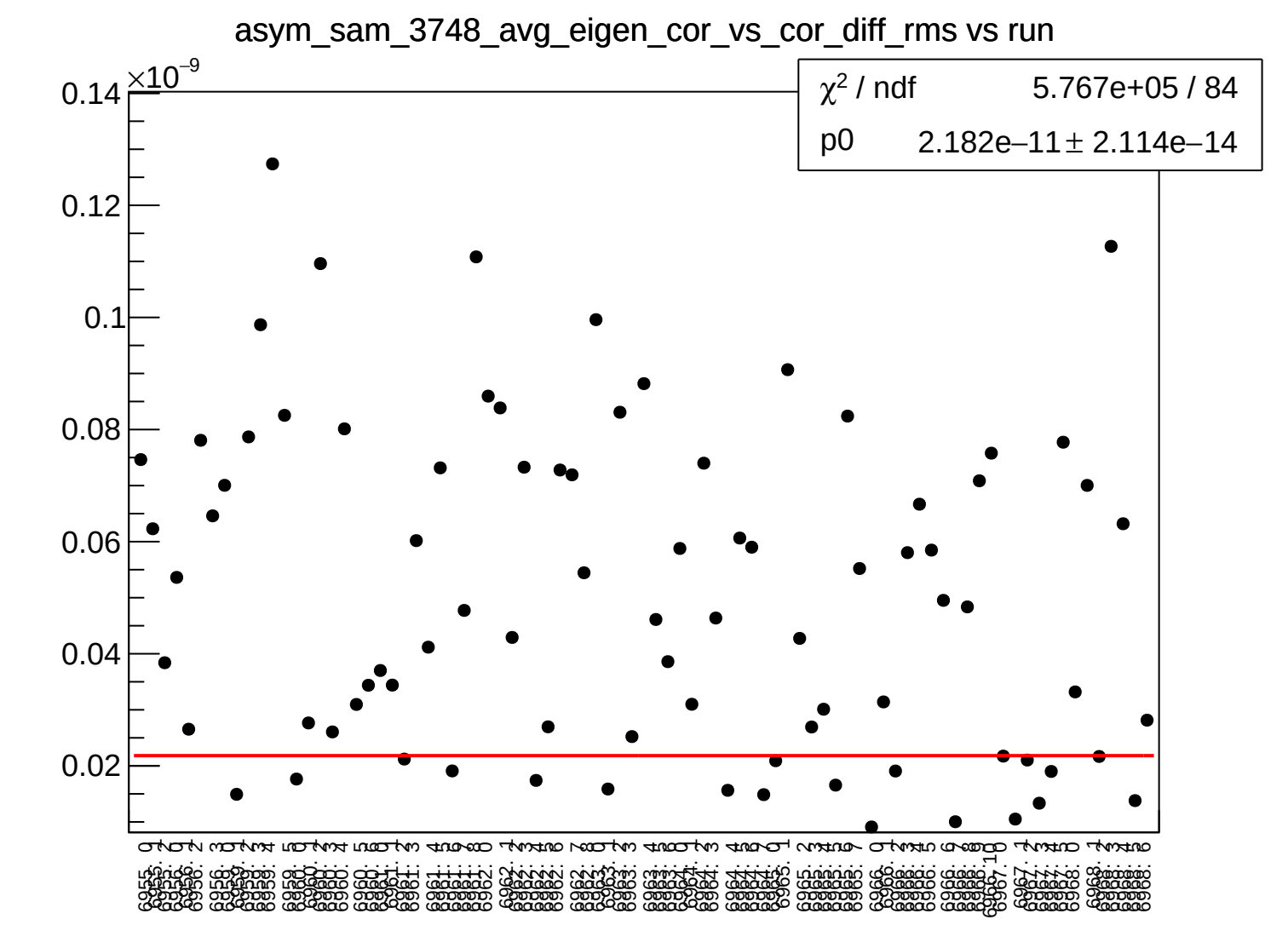
asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

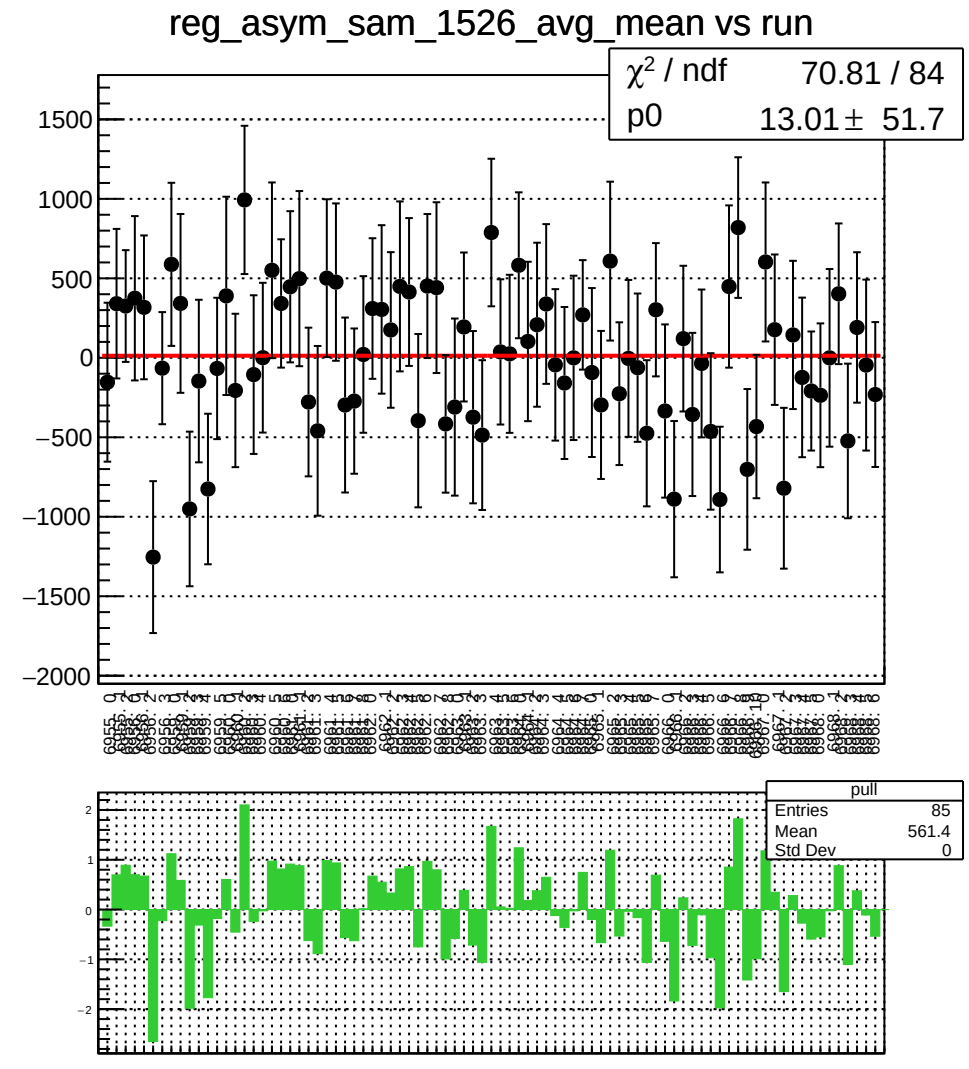


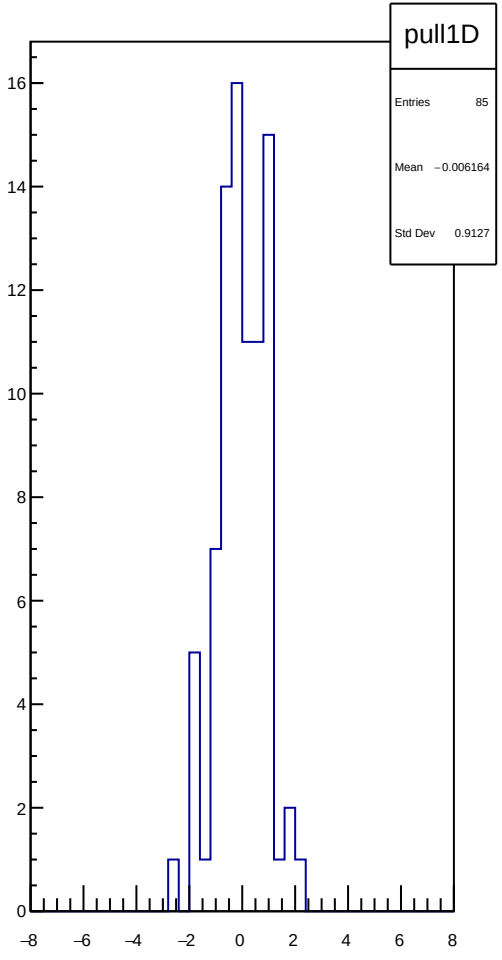



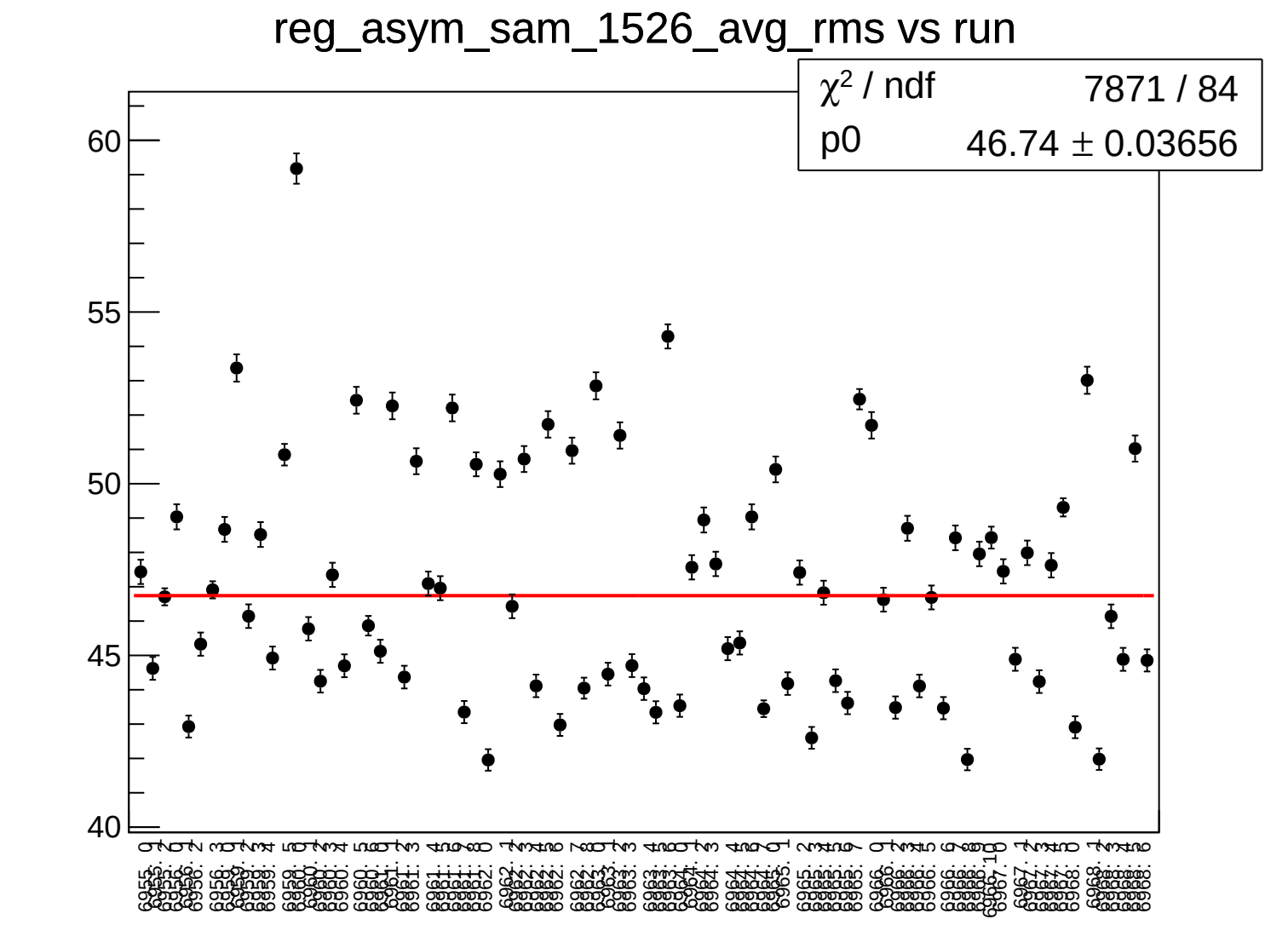

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.641e+04 / 84
p0 48.96 ± 0.03851
80
75
70
65
60
55
50
45
40

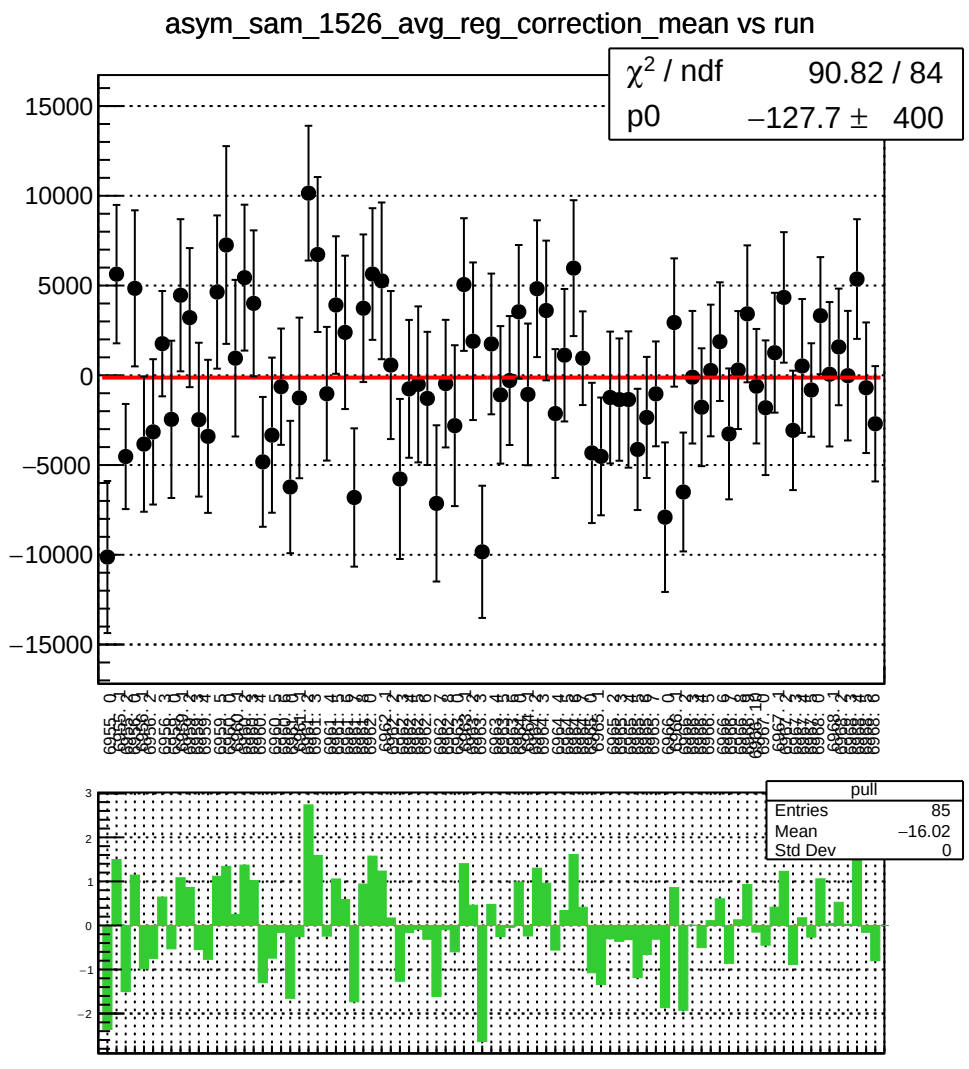

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.52 / 84
p0 4.635e−16 ± 2.989e−14
pull
Entries 85
Mean 50.46
Std Dev 31.29
pull1D
Entries 85
Mean 0.07195
Std Dev 0.9946

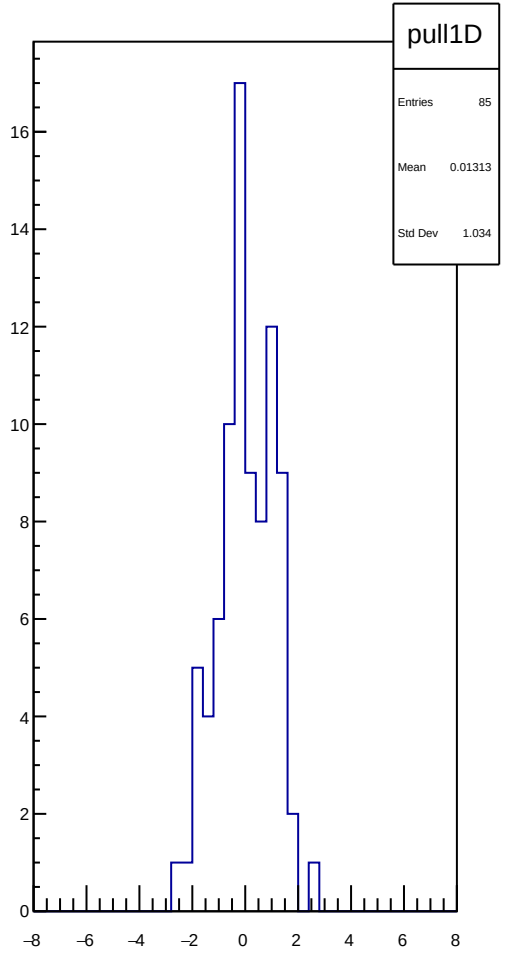

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.767e+05 / 84
p0 2.182e−11 ± 2.114e−14

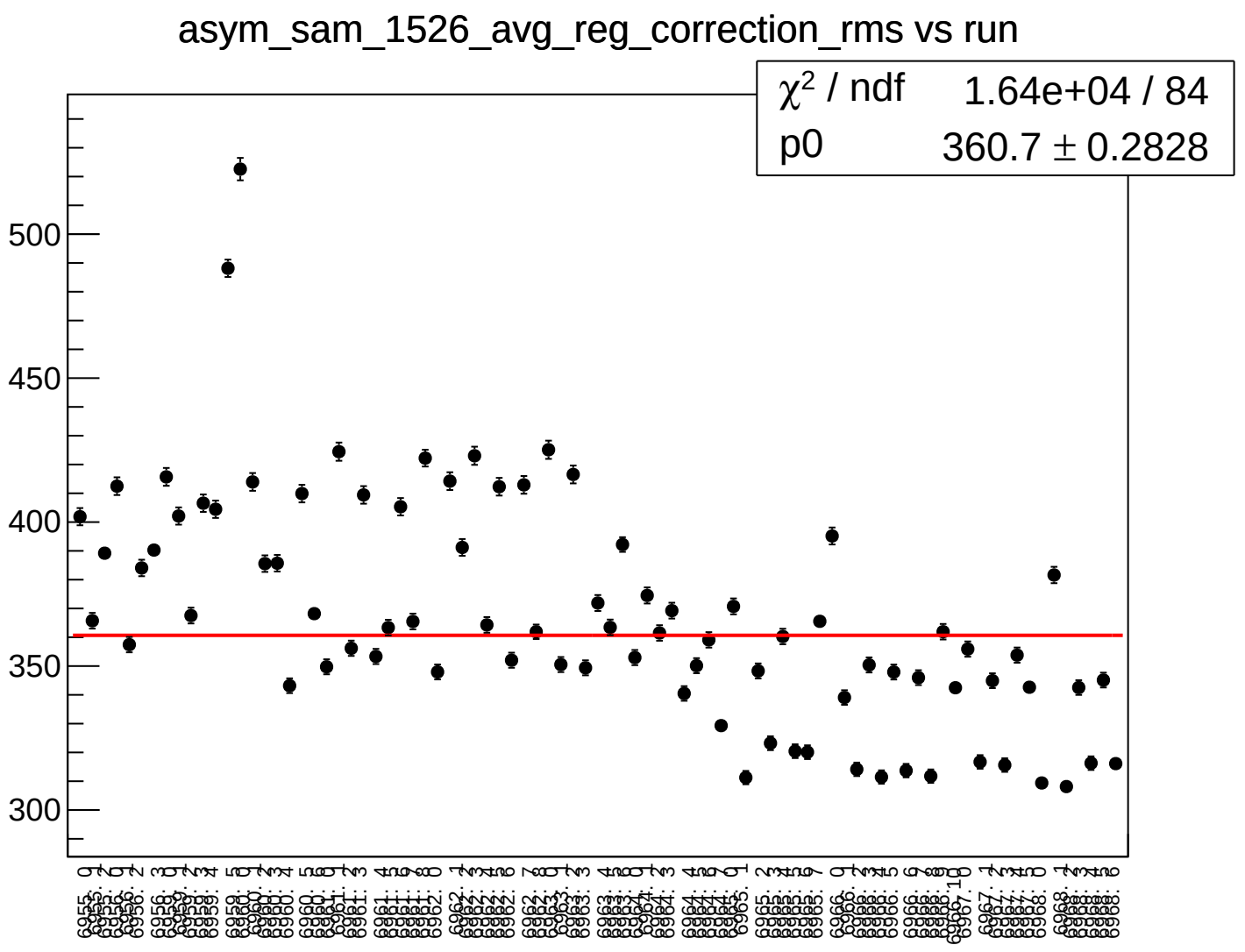

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 70.81 / 84
p0 13.01 ± 51.7
pull
Entries 85
Mean 561.4
Std Dev 0

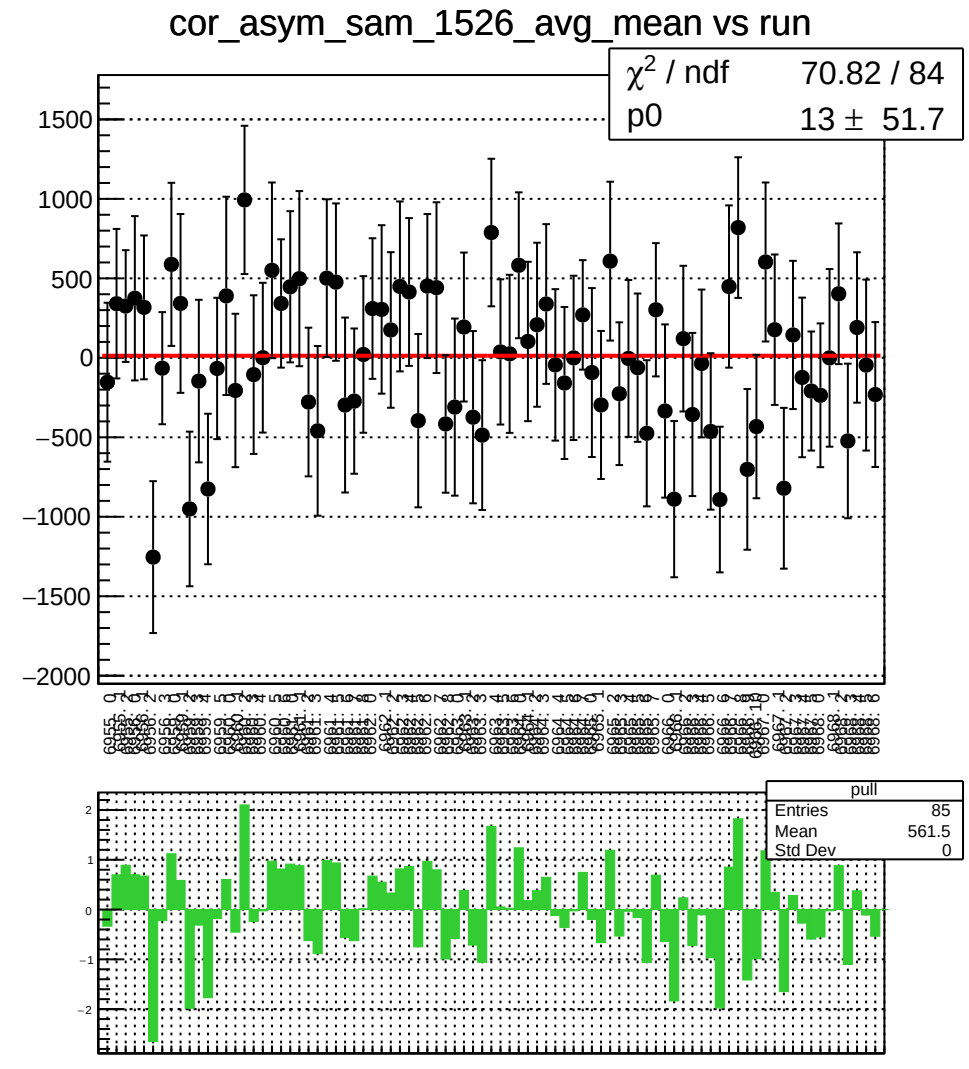

pull1D
Entries 85
Mean −0.006164
Std Dev 0.9127

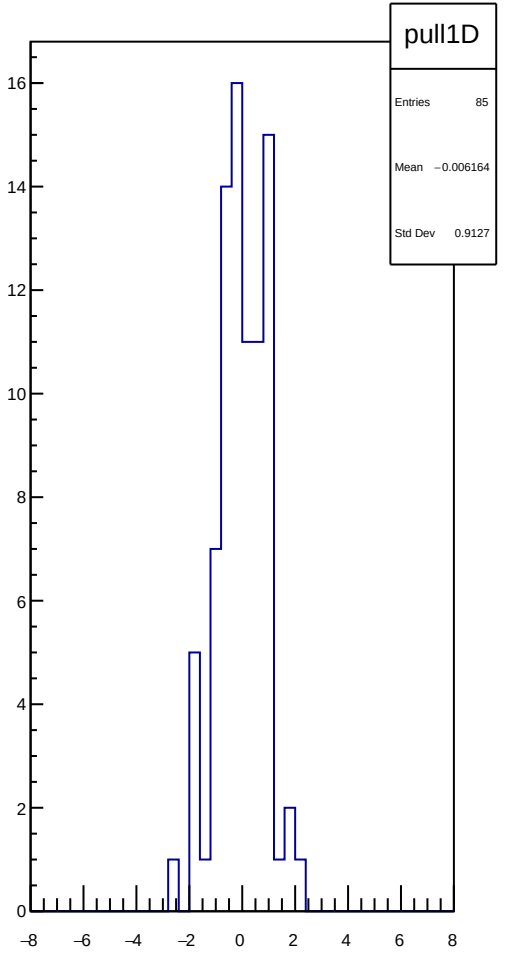

reg_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 7871 / 84
p0 46.74 ± 0.03656
60
55
50
45
40

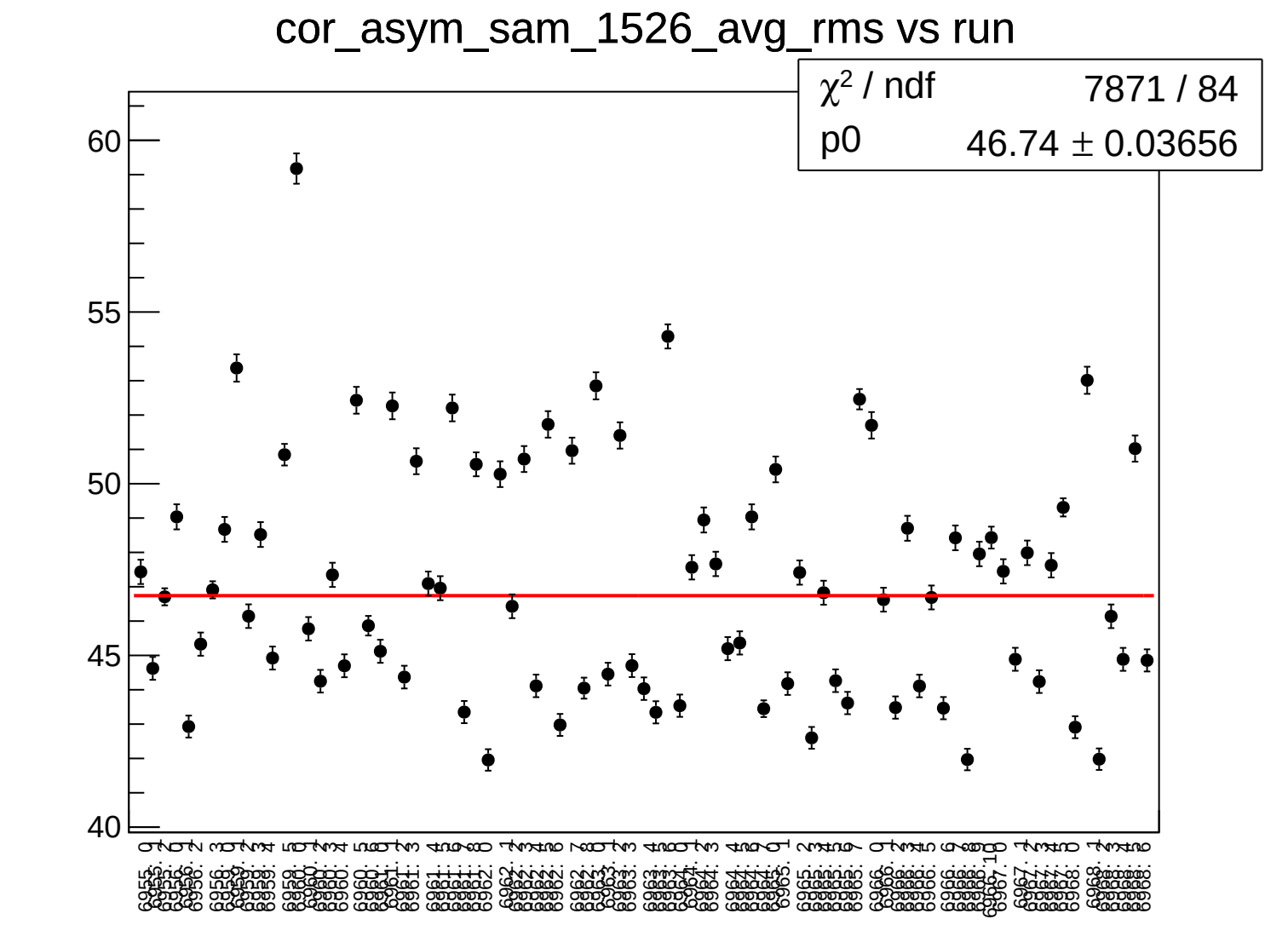

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 90.82 / 84
p0 −127.7 ± 400
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −16.02
Std Dev 0
3
2
1
0
−1
−2

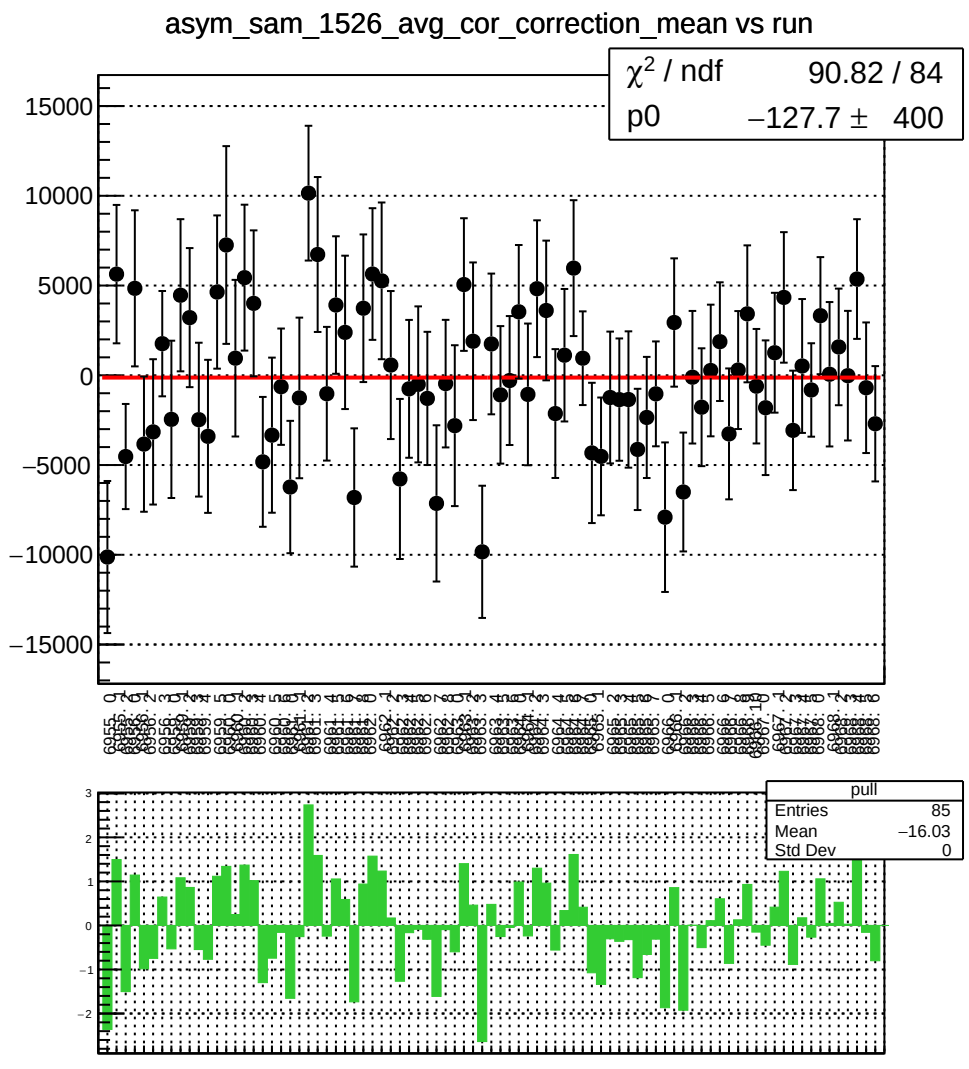

pull1D
Entries 85
Mean 0.01313
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

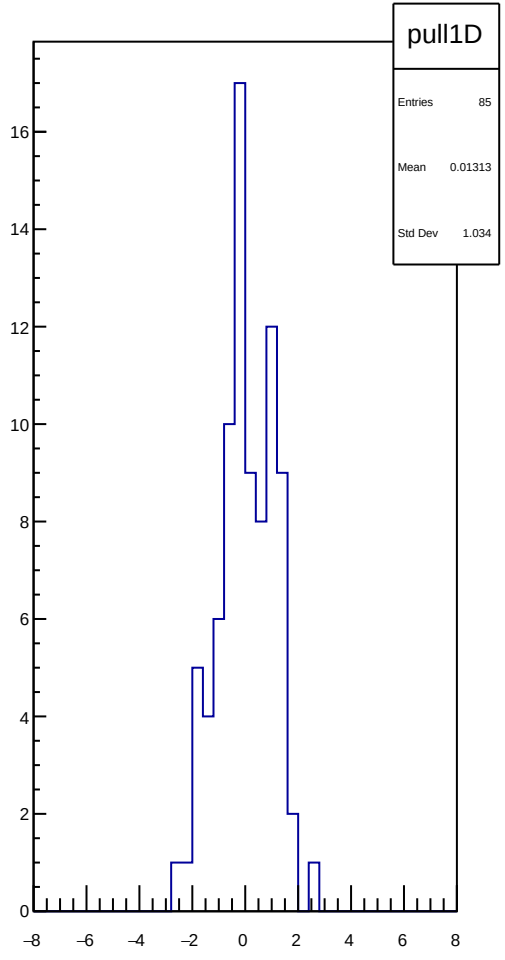

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.64e+04 / 84
p0 360.7 ± 0.2828
500
450
400
350
300

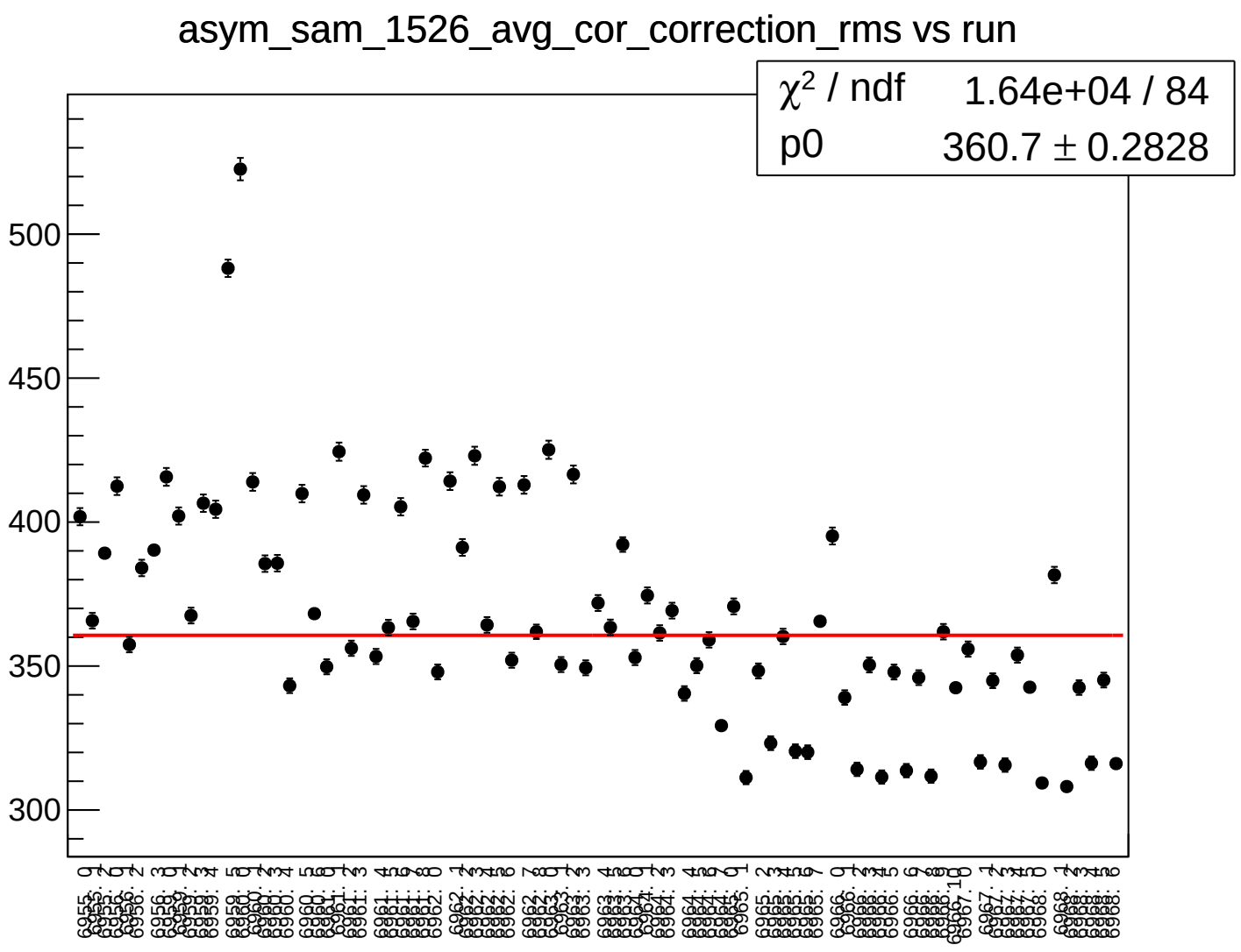

cor_asym_sam_1526_avg_mean vs run
$\chi^2$ / ndf 70.82 / 84
p0 13 ± 51.7
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 85
Mean 561.5
Std Dev 0
2
1
0
−1
−2

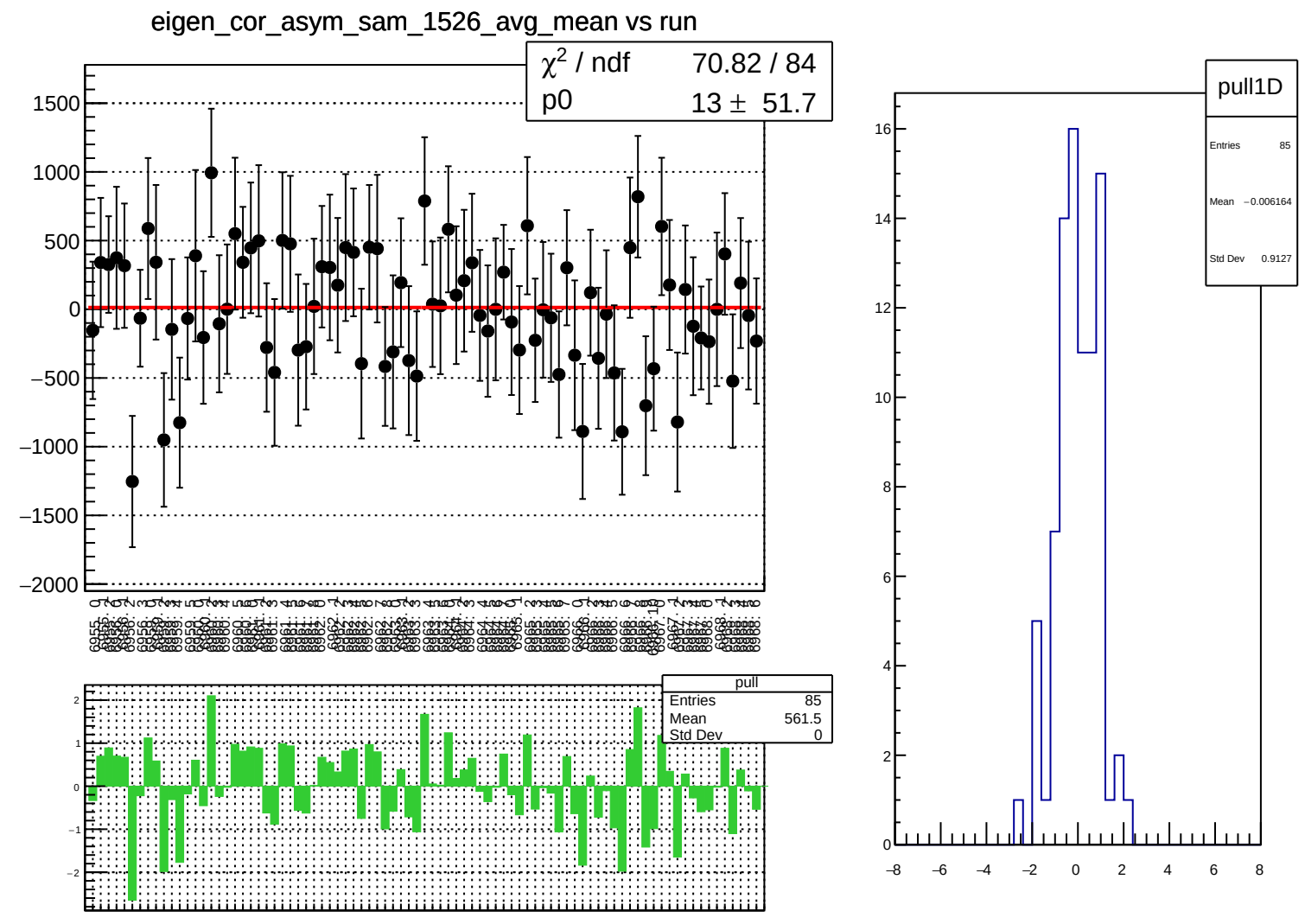

pull1D
Entries 85
Mean −0.006164
Std Dev 0.9127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

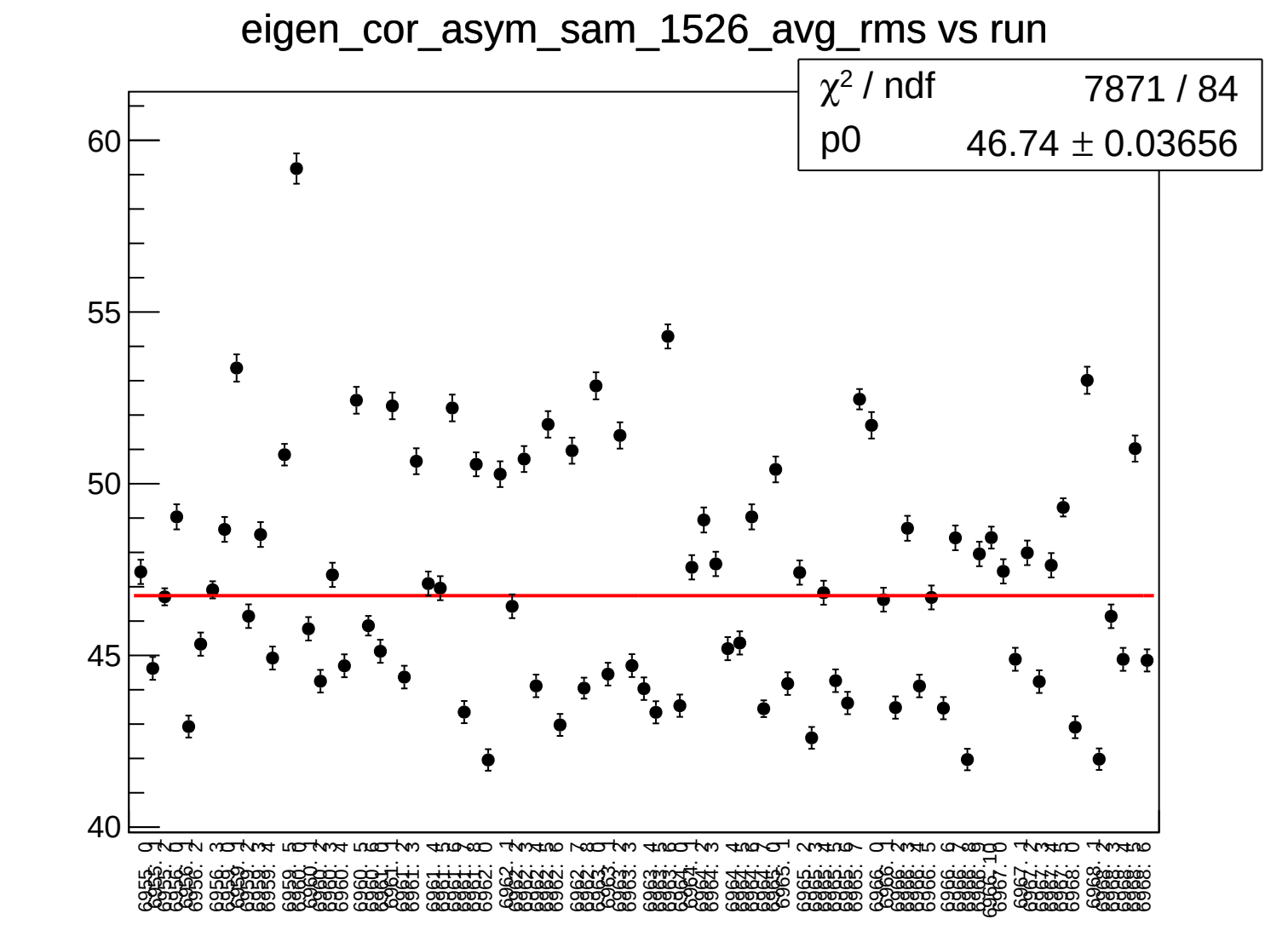

cor_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 7871 / 84
p0 46.74 ± 0.03656
60
55
50
45
40

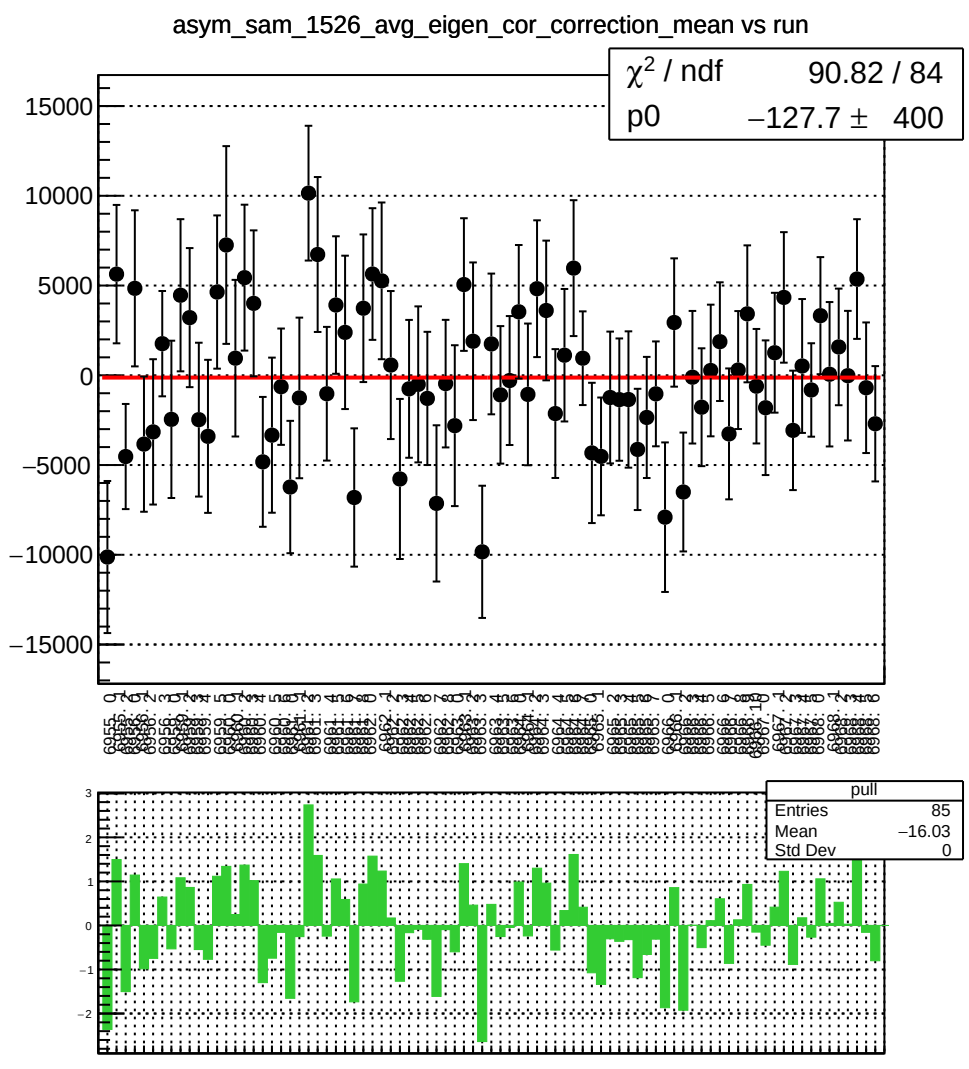

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 90.82 / 84
p0 −127.7 ± 400
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −16.03
Std Dev 0
3
2
1
0
−1
−2

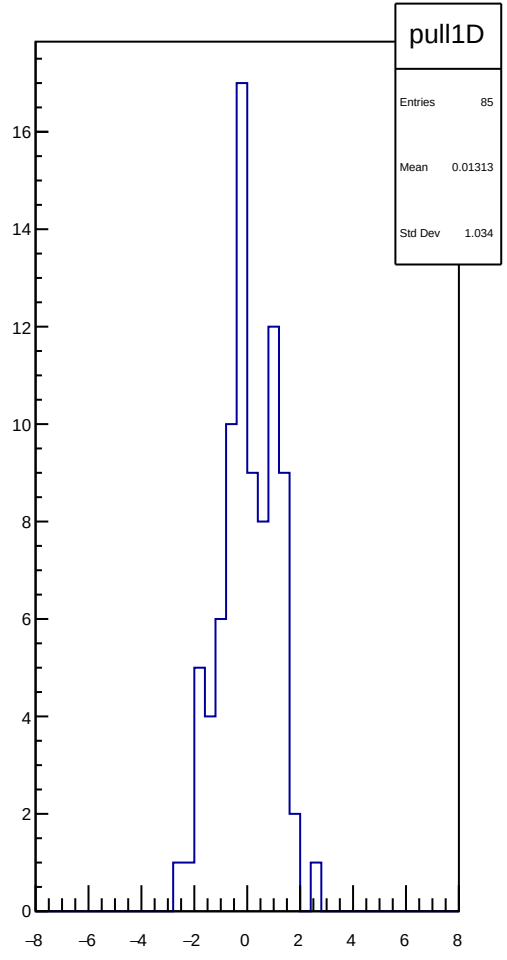

pull1D
Entries 85
Mean 0.01313
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

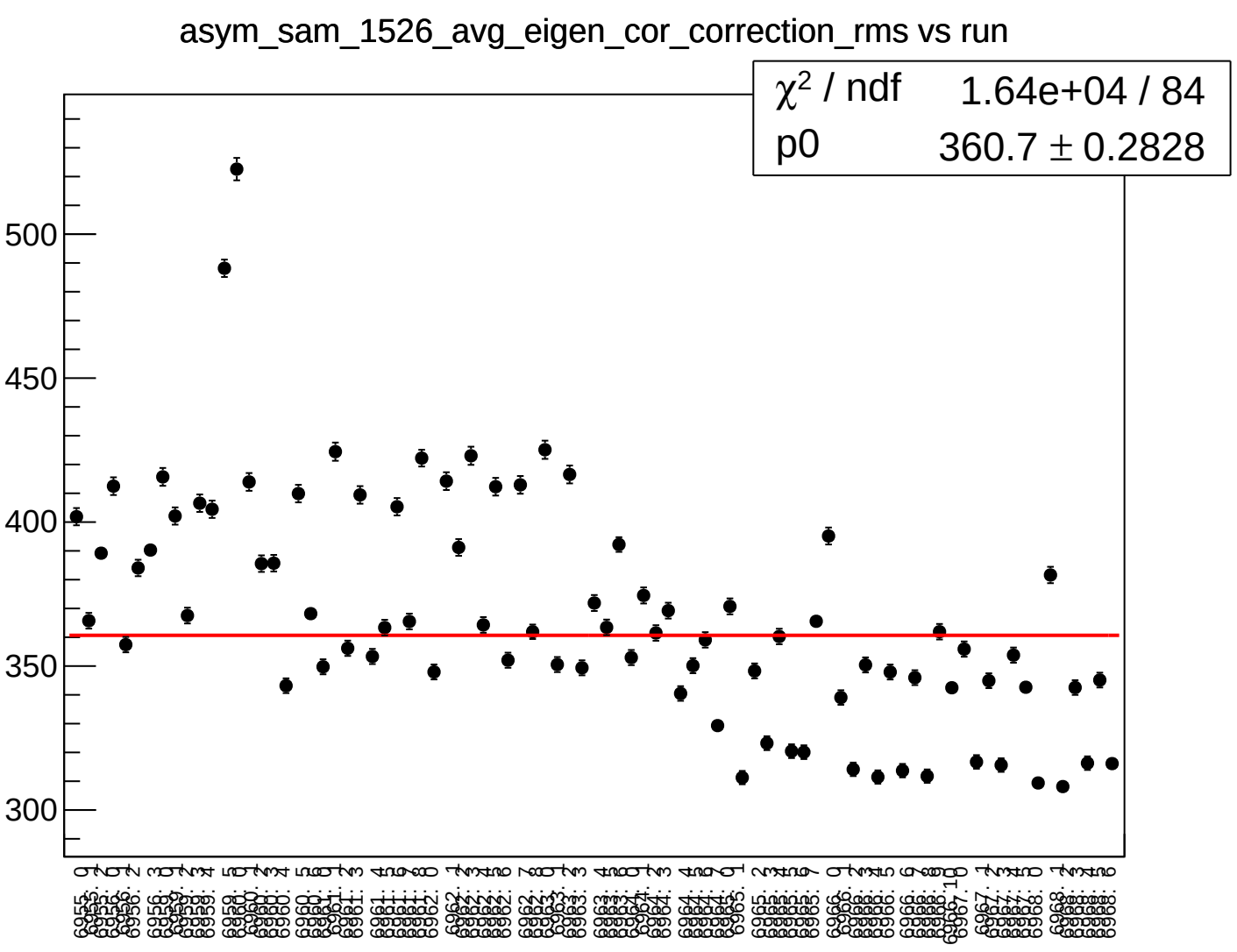

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.64e+04 / 84
p0 360.7 ± 0.2828
500
450
400
350
300

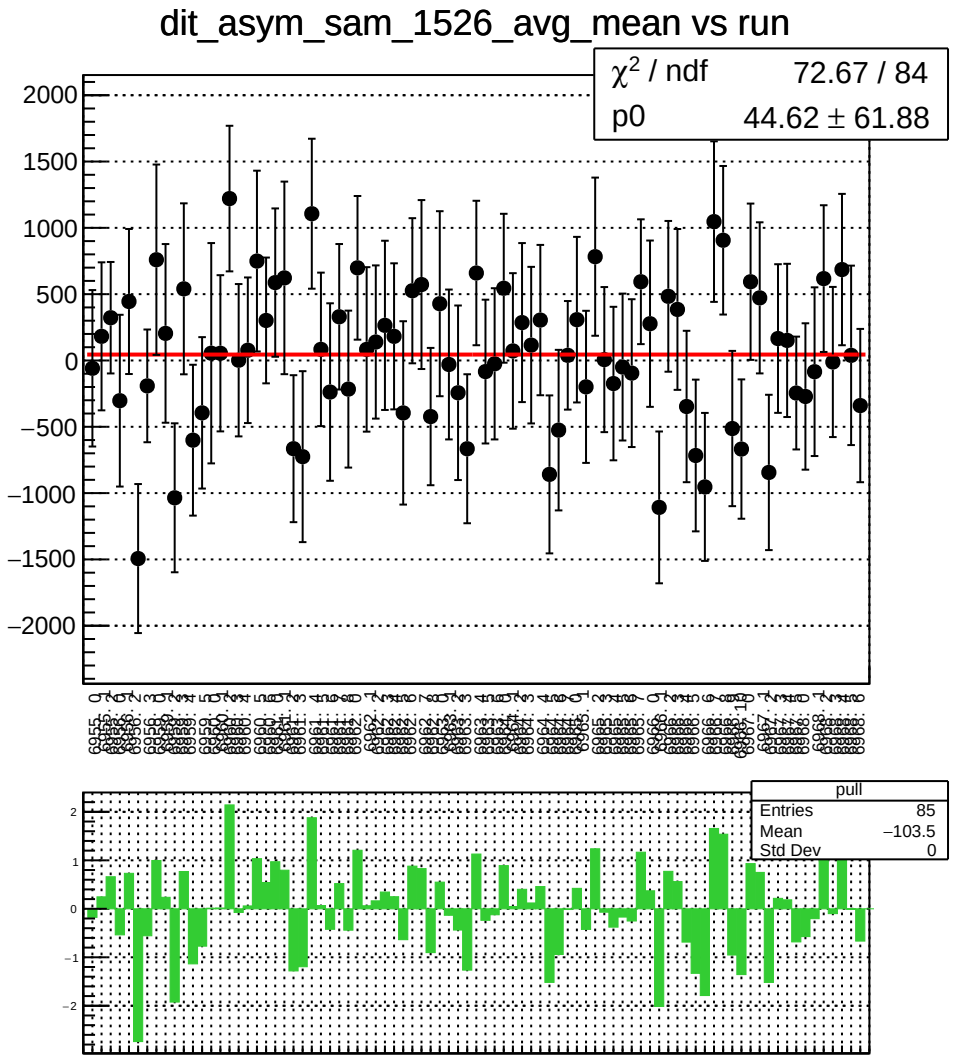

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 70.82 / 84
p0 13 ± 51.7
pull
Entries 85
Mean 561.5
Std Dev 0
pull1D
Entries 85
Mean −0.006164
Std Dev 0.9127

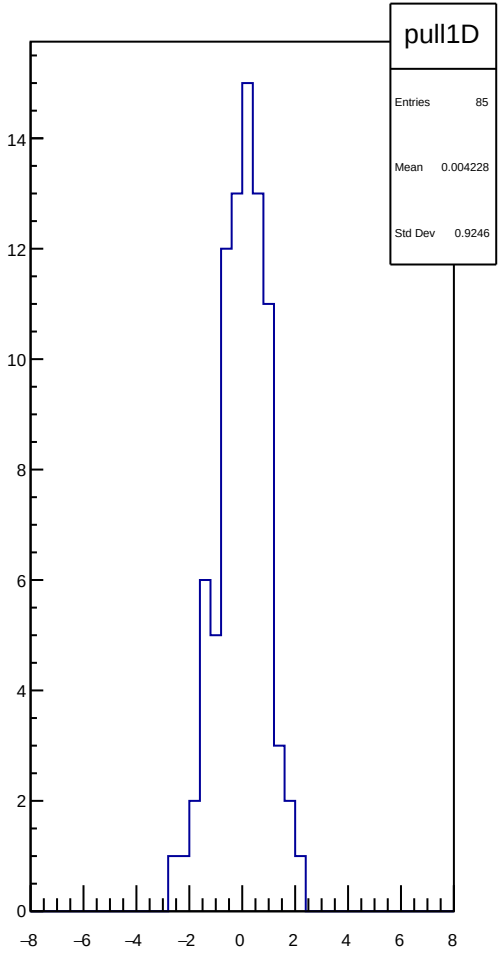

eigen_cor_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 7871 / 84
p0 46.74 ± 0.03656
60
55
50
45
40

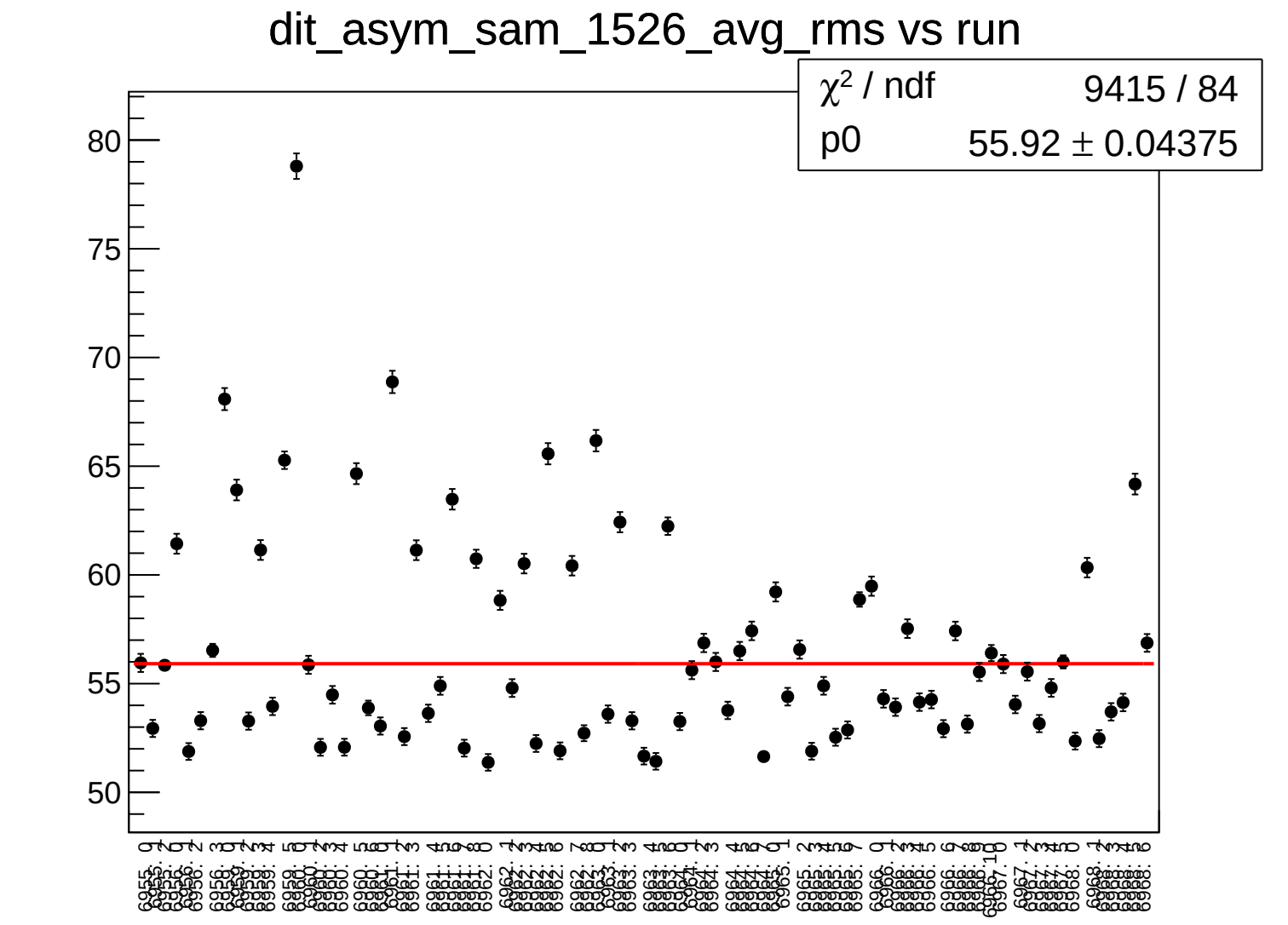

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.82 / 84
p0 −127.7 ± 400
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −16.03
Std Dev 0
3
2
1
0
−1
−2

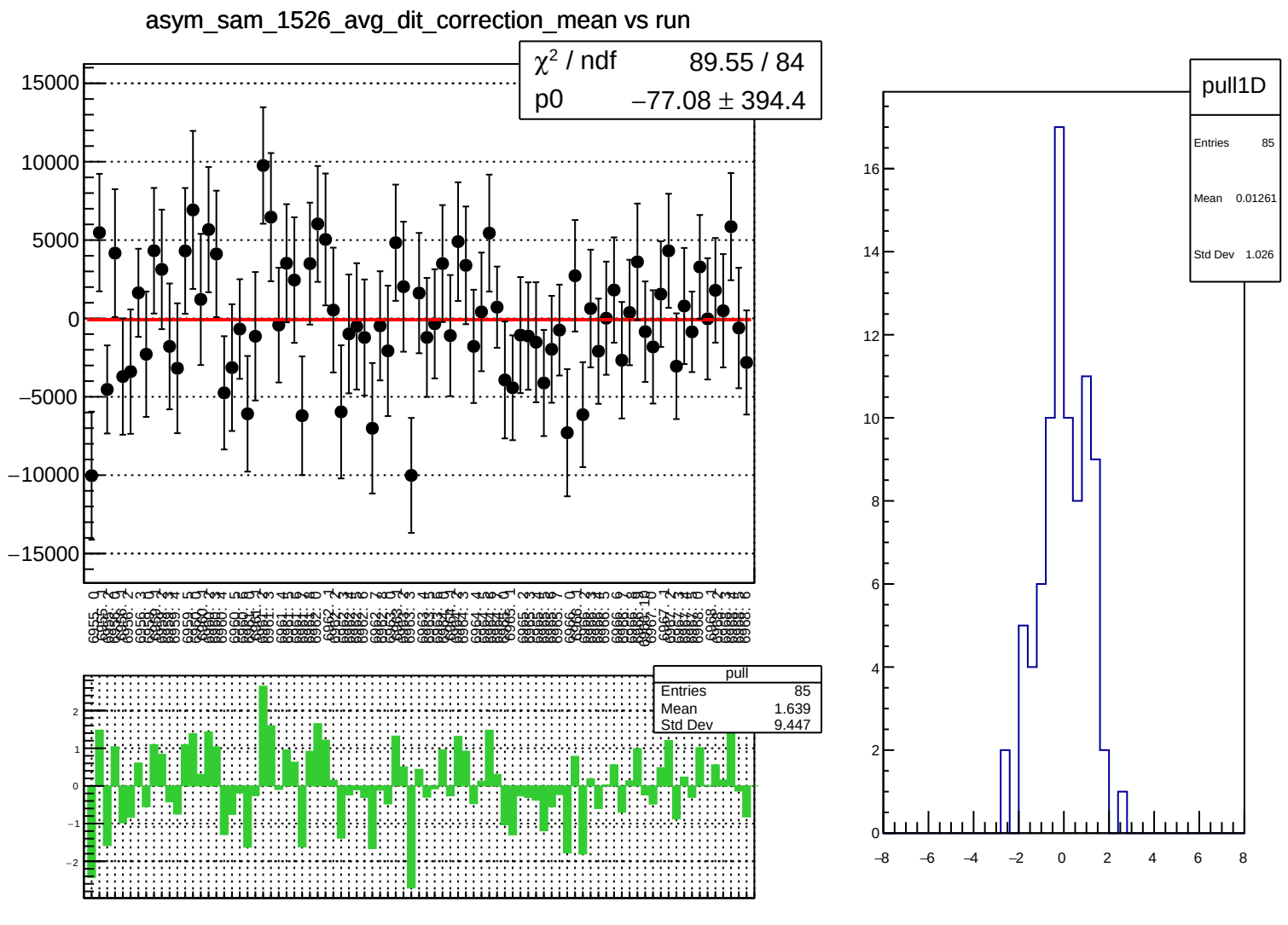

pull1D
Entries 85
Mean 0.01313
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

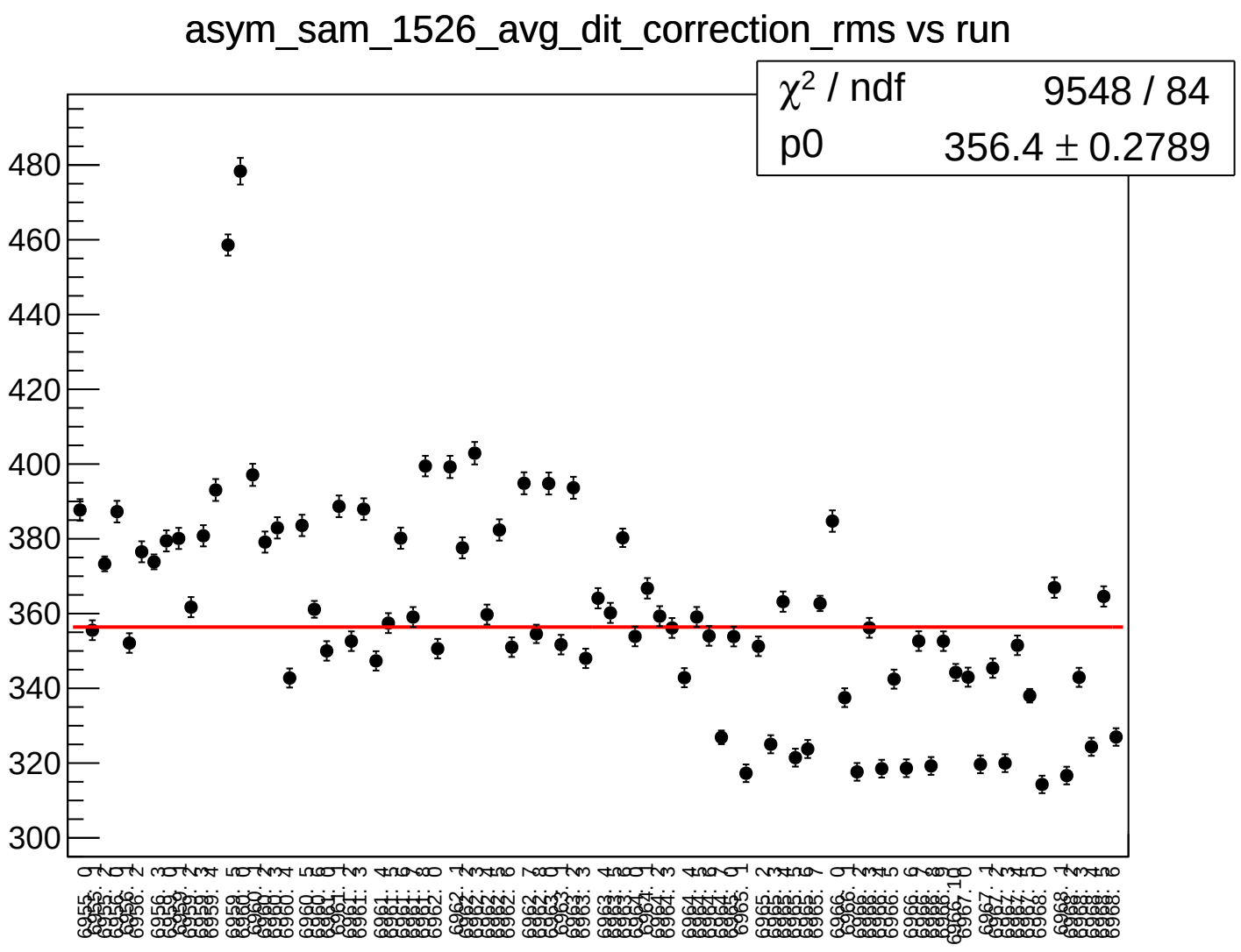

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.64e+04 / 84
p0 360.7 ± 0.2828
500
450
400
350
300

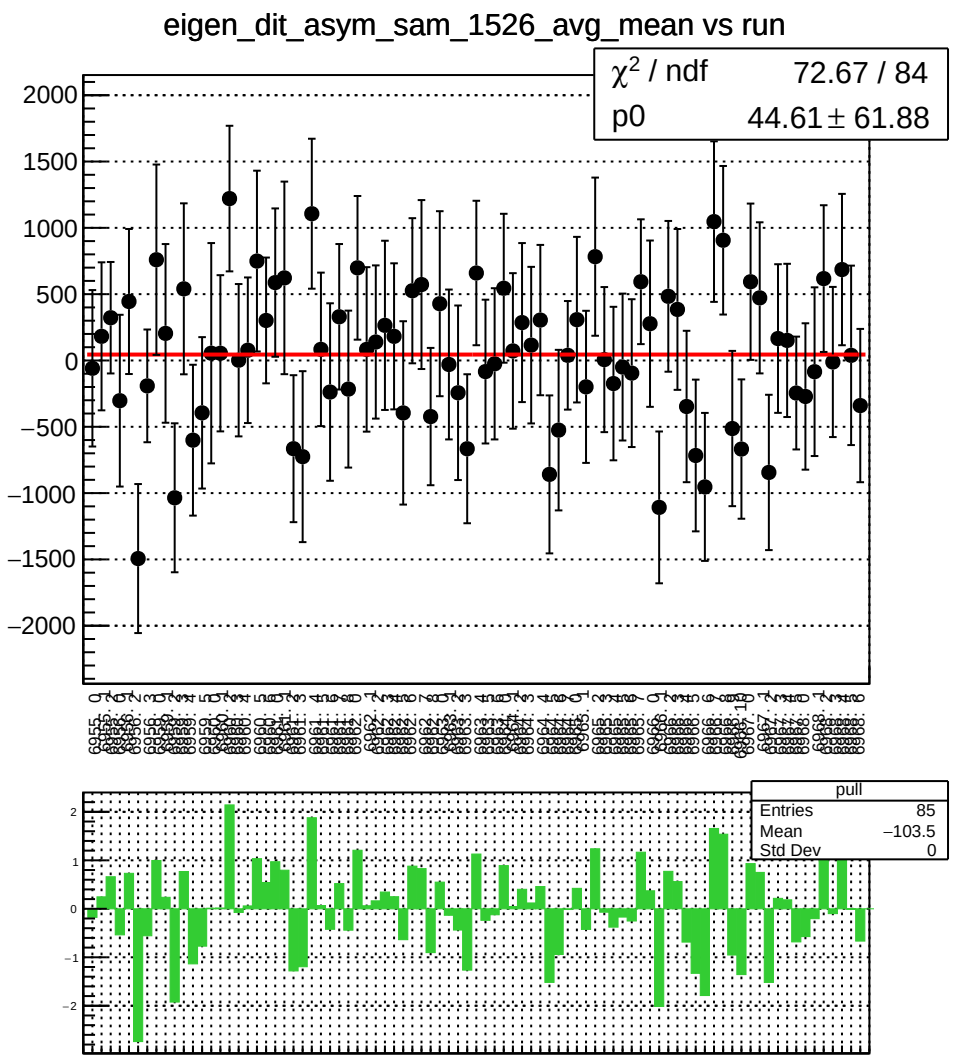

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 72.67 / 84
p0 44.62 ± 61.88
pull
Entries 85
Mean −103.5
Std Dev 0

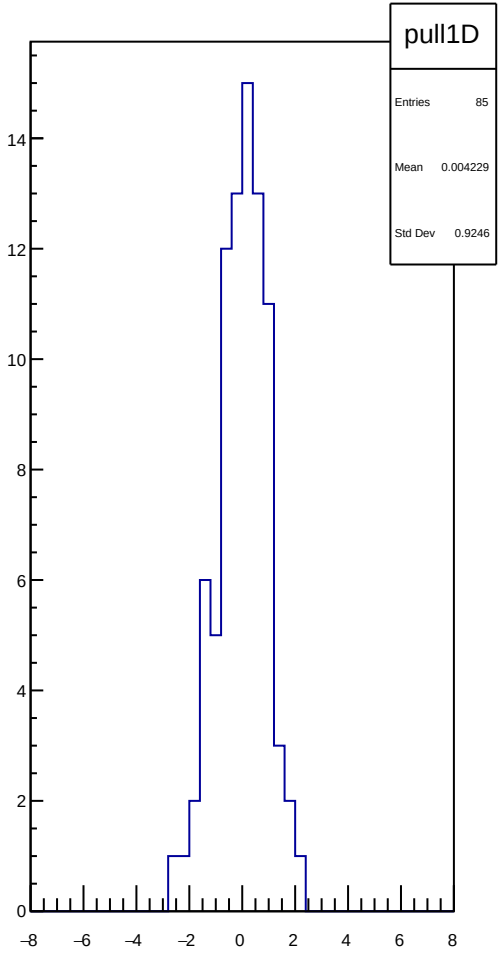

pull1D
Entries 85
Mean 0.004228
Std Dev 0.9246

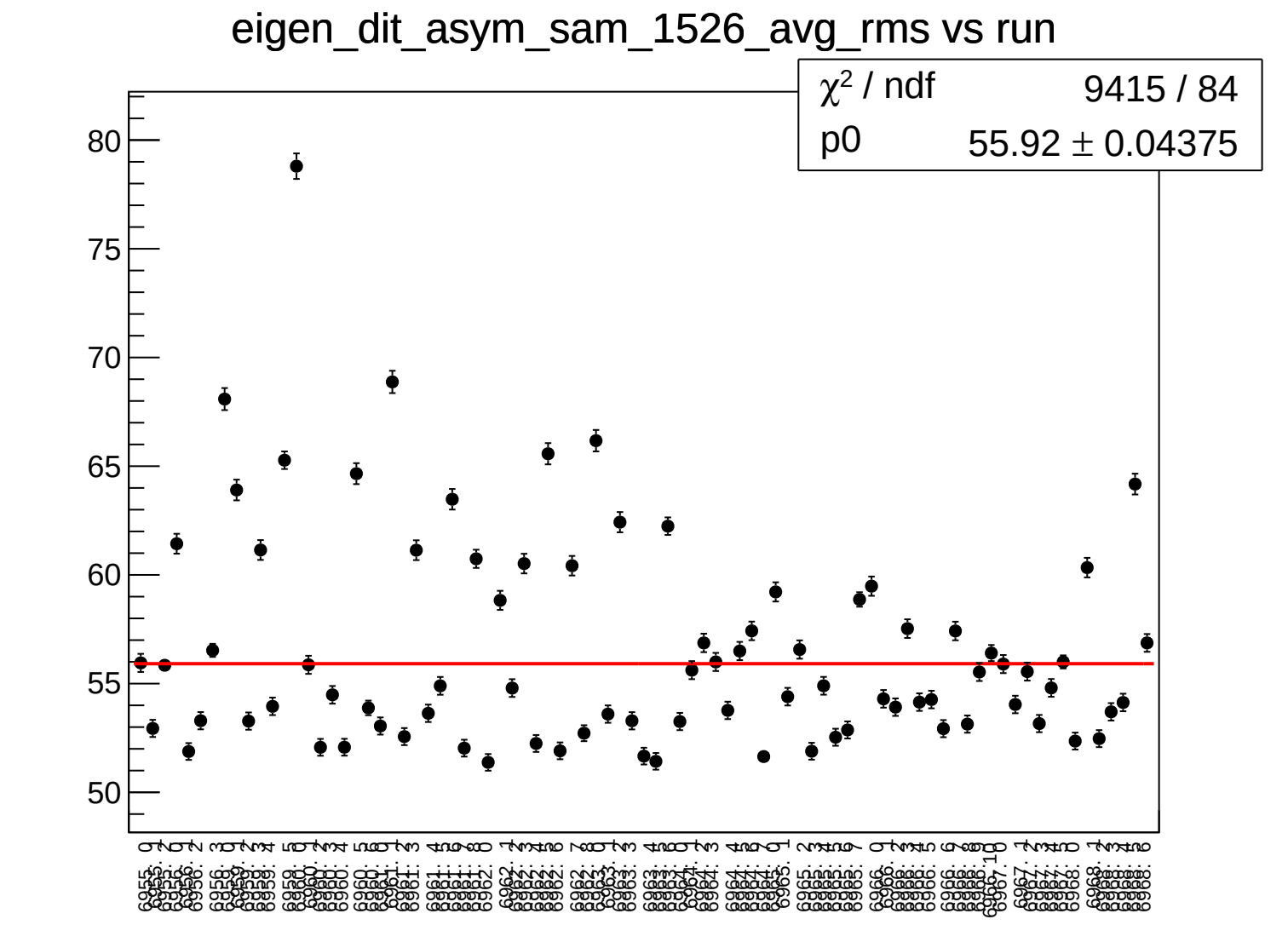

dit_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 9415 / 84
p0 55.92 ± 0.04375
80
75
70
65
60
55
50

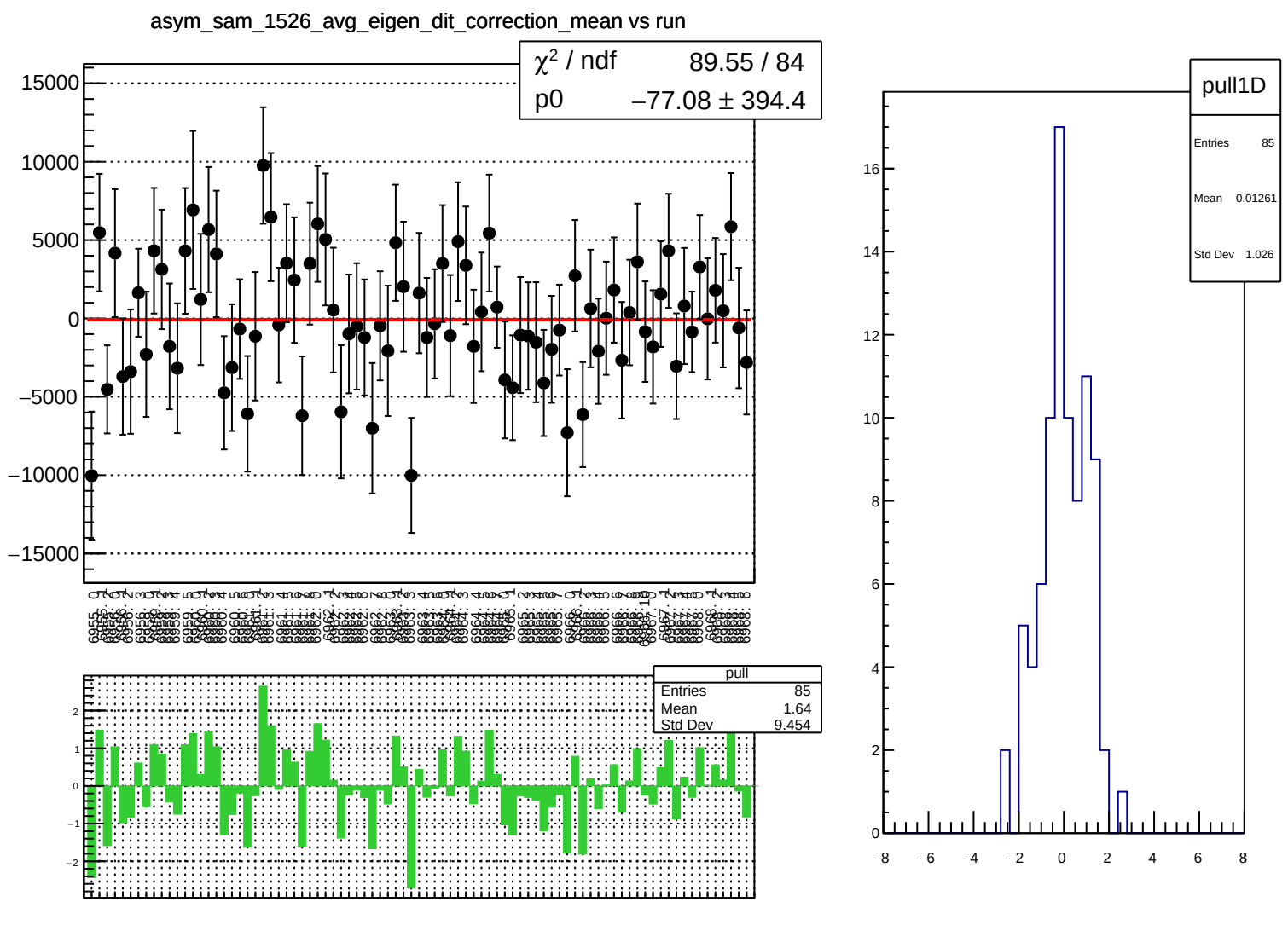

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 89.55 / 84
p0 −77.08 ± 394.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 1.639
Std Dev 9.447
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01261
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

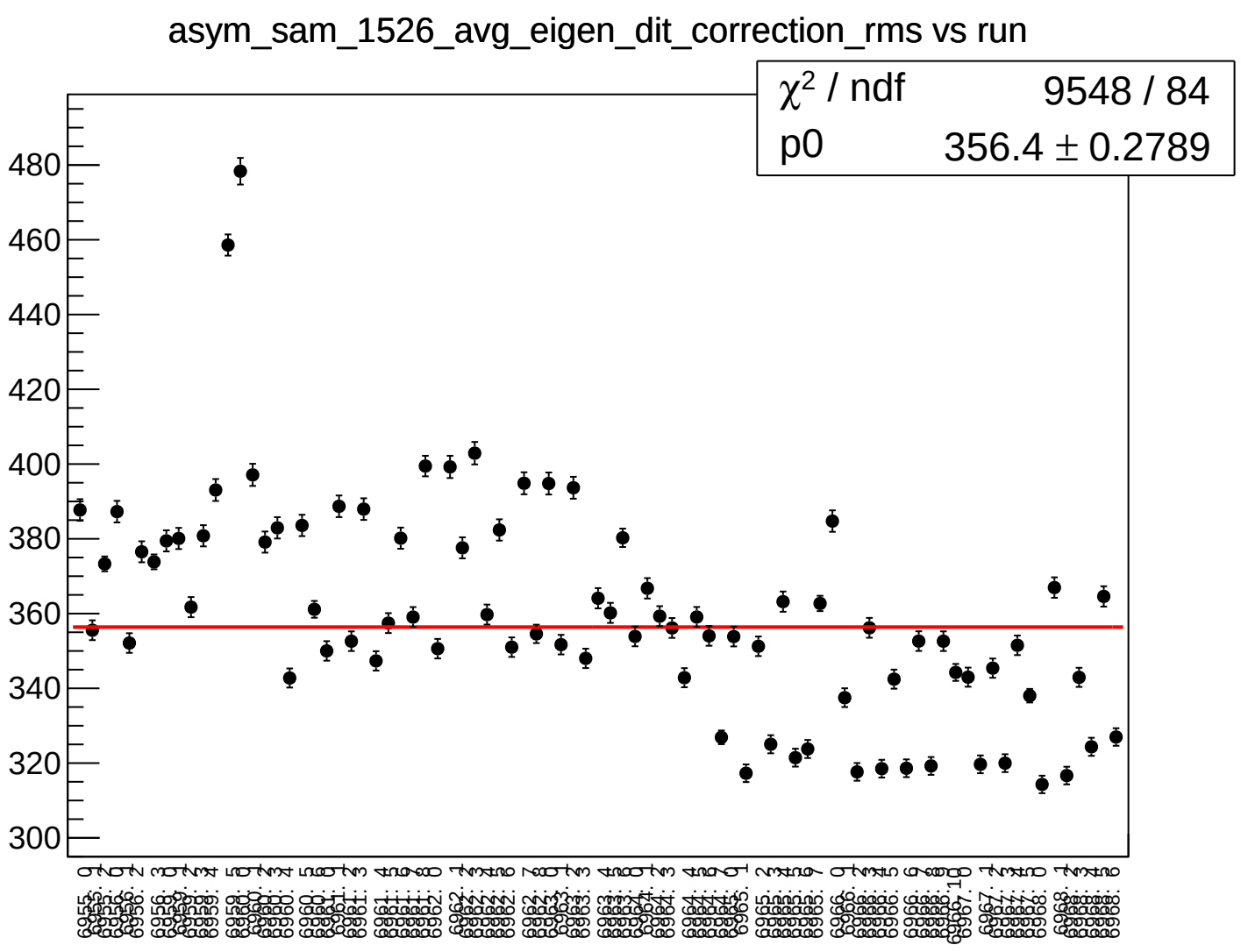

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 9548 / 84
p0 356.4 ± 0.2789
480
460
440
420
400
380
360
340
320
300

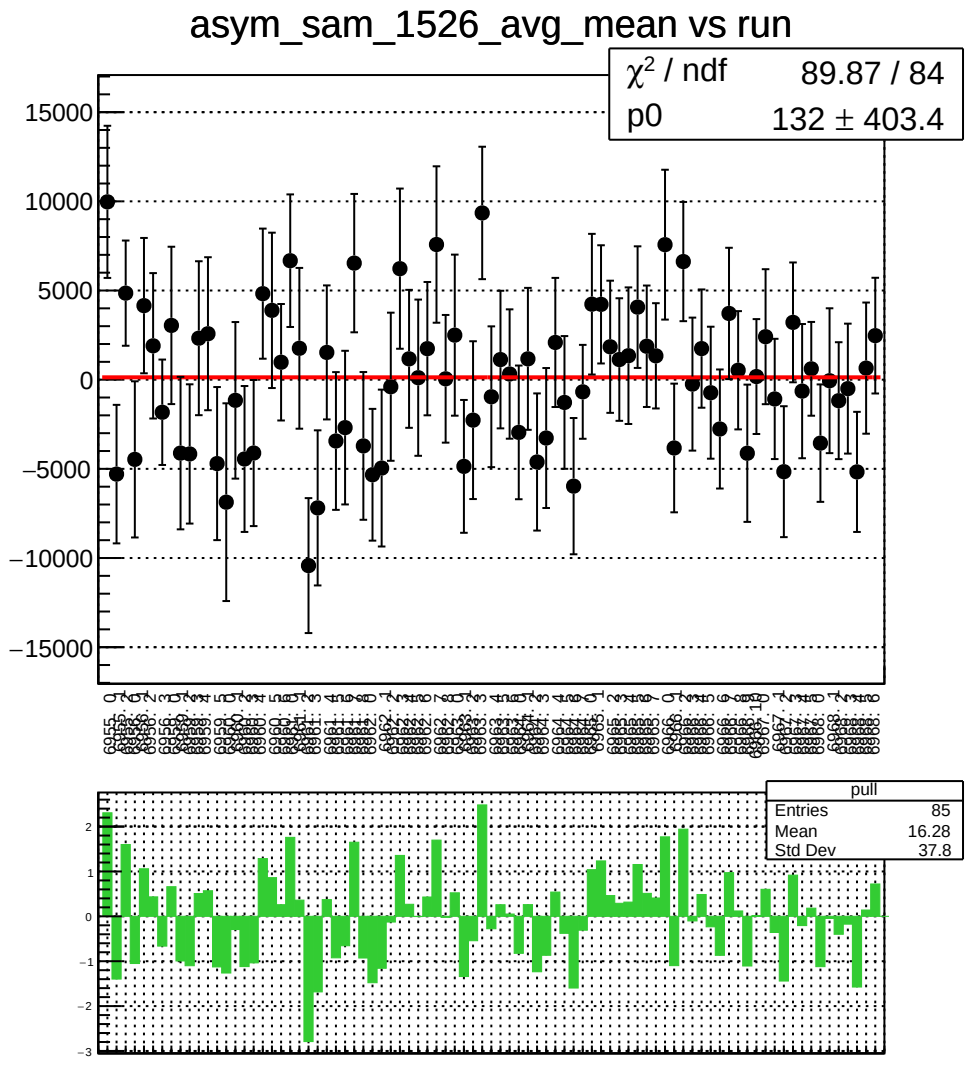

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 72.67 / 84
p0 44.61 ± 61.88
pull
Entries 85
Mean −103.5
Std Dev 0

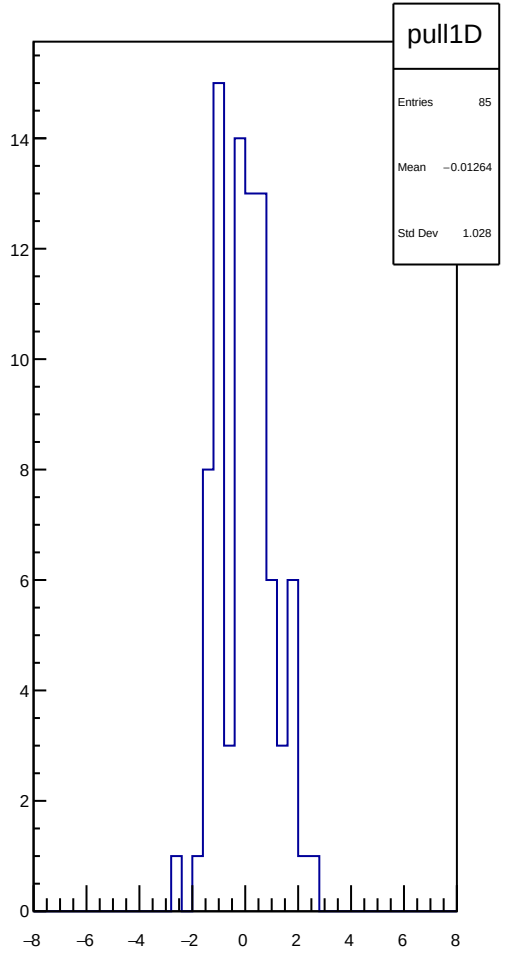

pull1D
Entries 85
Mean 0.004229
Std Dev 0.9246

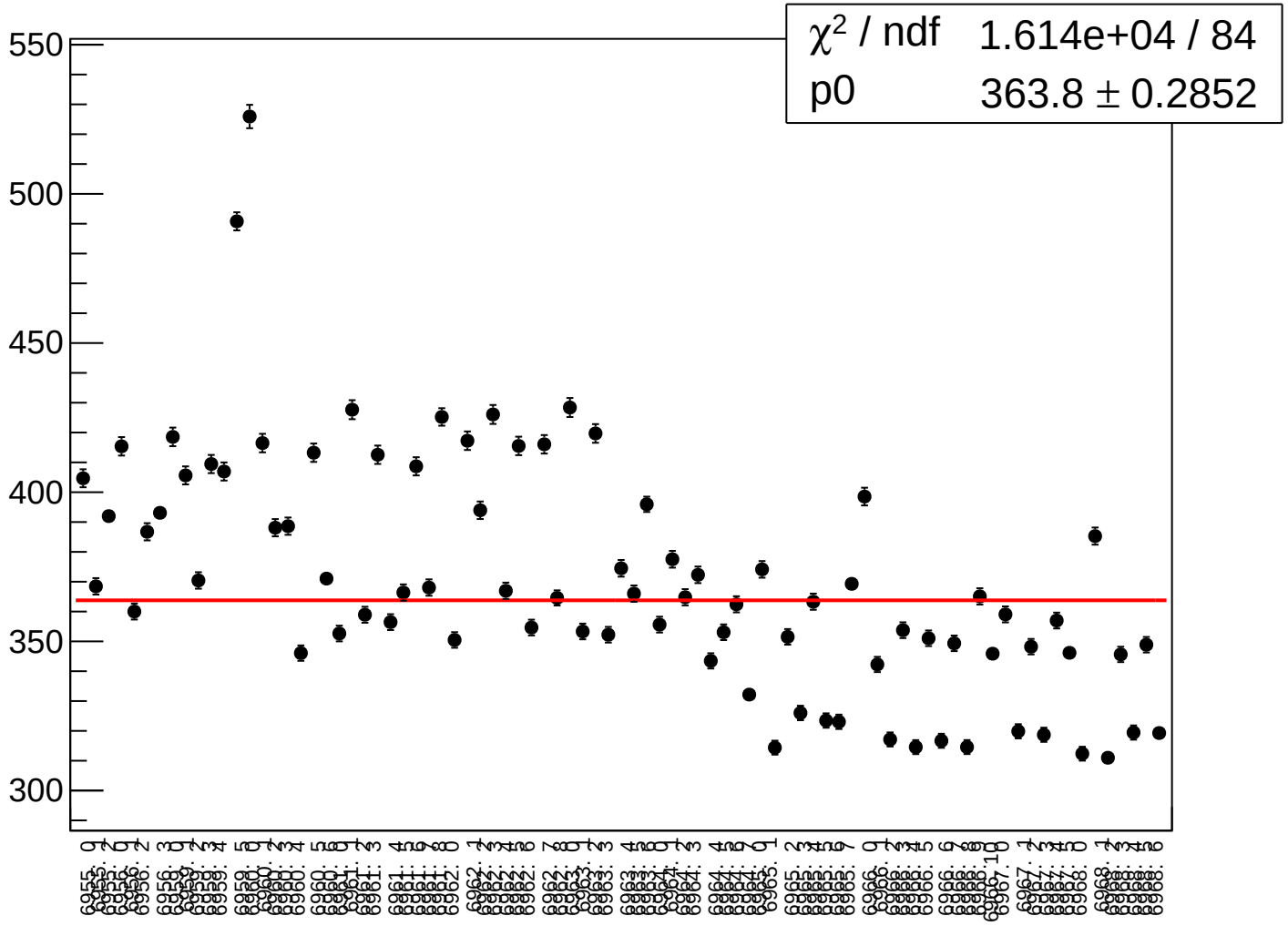

eigen_dit_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 9415 / 84
p0 55.92 ± 0.04375
80
75
70
65
60
55
50

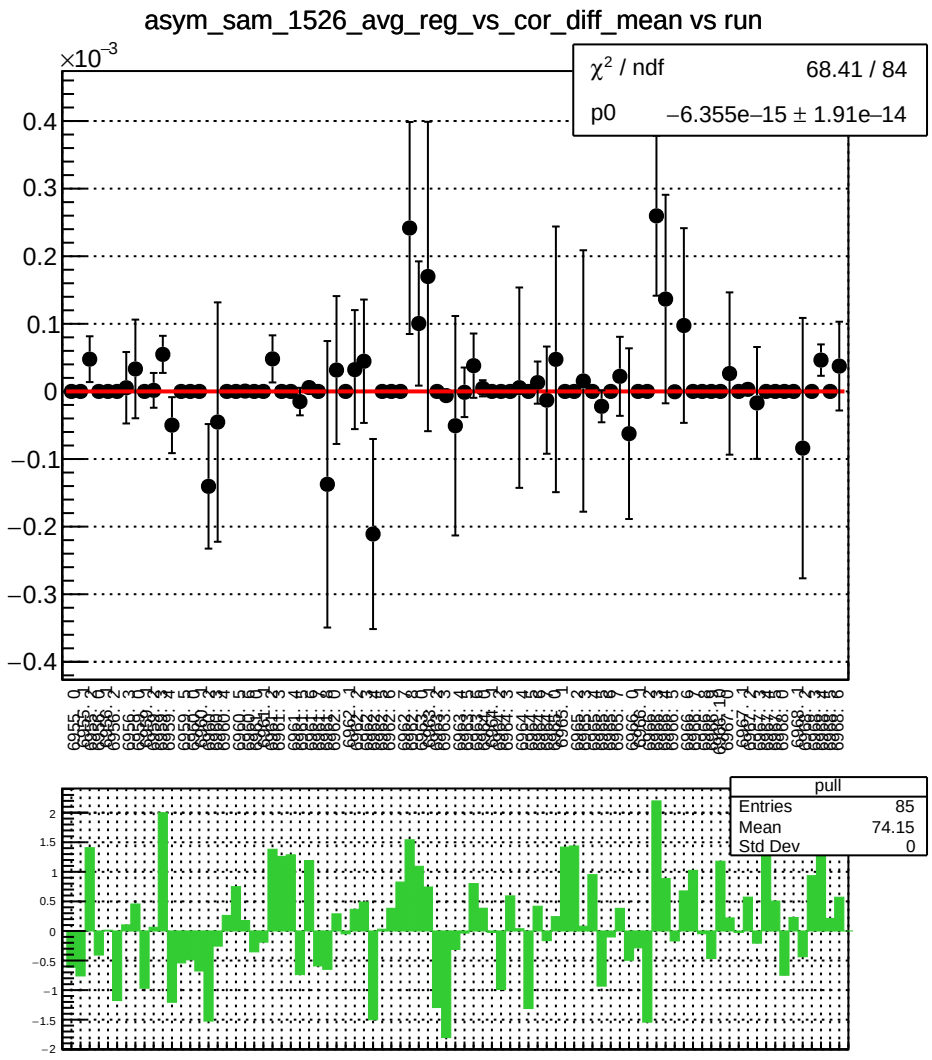

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.55 / 84
p0 −77.08 ± 394.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 1.64
Std Dev 9.454
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01261
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

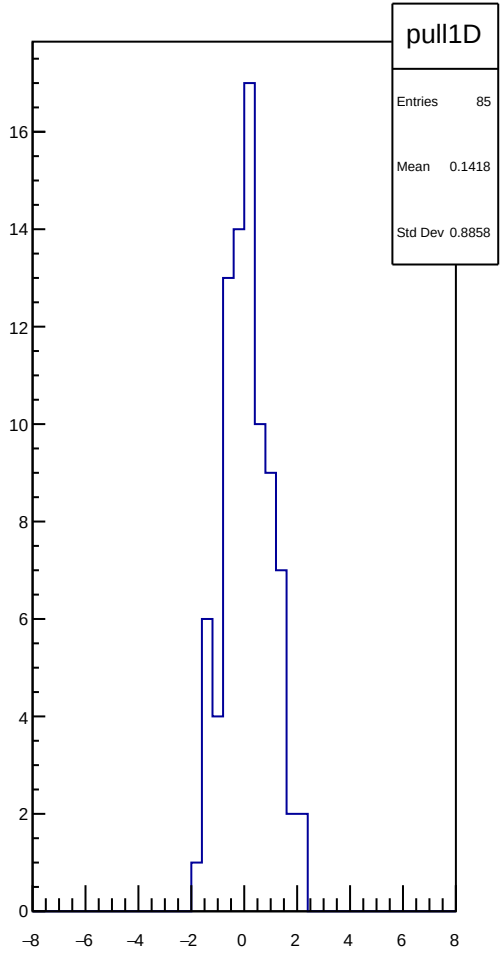

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 9548 / 84
p0 356.4 ± 0.2789
480
460
440
420
400
380
360
340
320
300

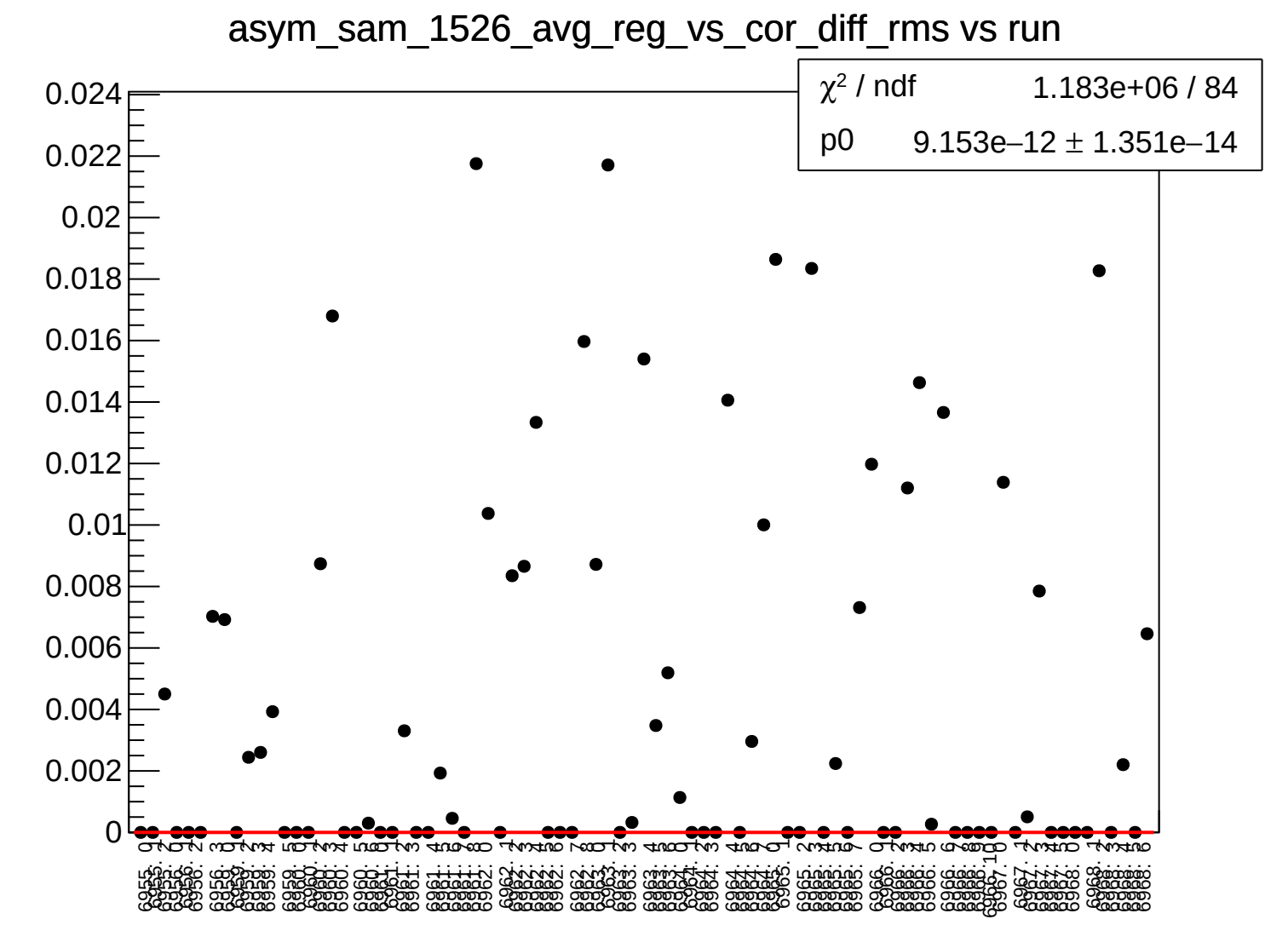

asym_sam_1526_avg_mean vs run
χ² / ndf 89.87 / 84
p0 132 ± 403.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 16.28
Std Dev 37.8
2
1
0
−1
−2
−3

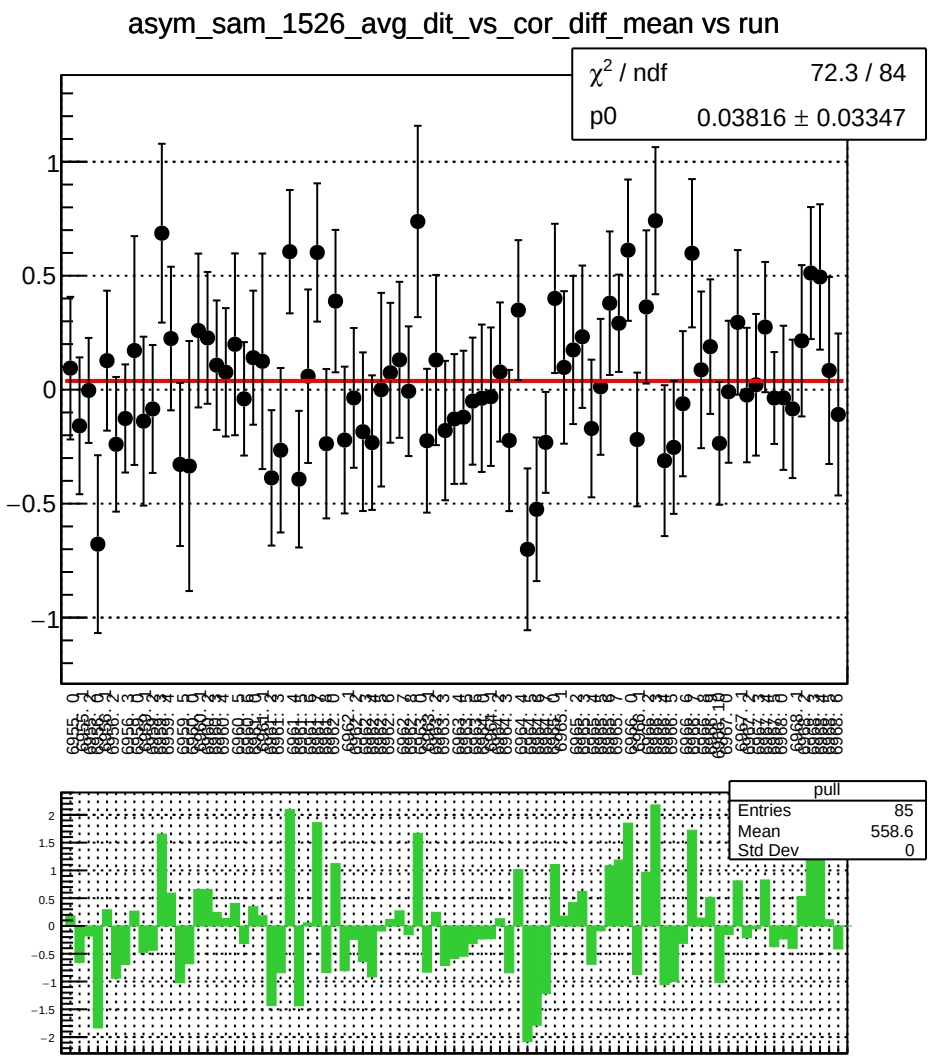

pull1D
Entries 85
Mean −0.01264
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

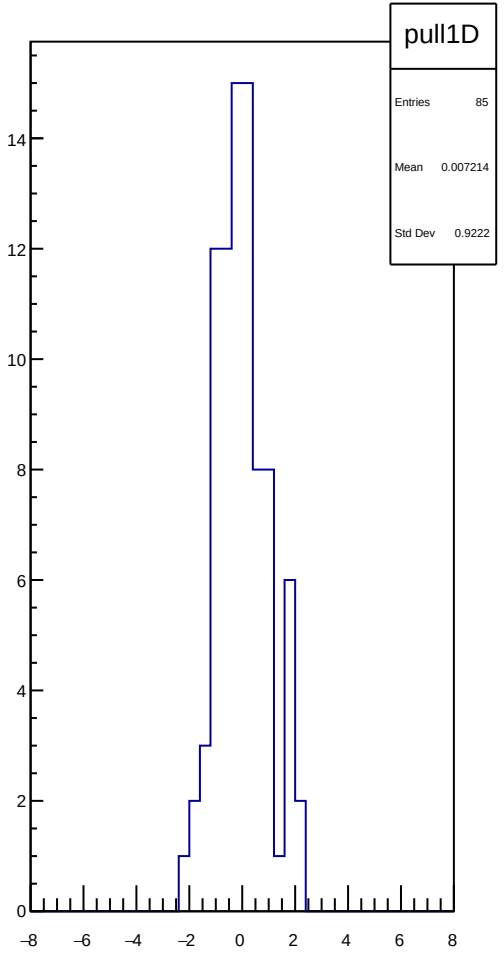

asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 1.614e+04 / 84
p0 363.8 ± 0.2852
550
500
450
400
350
300

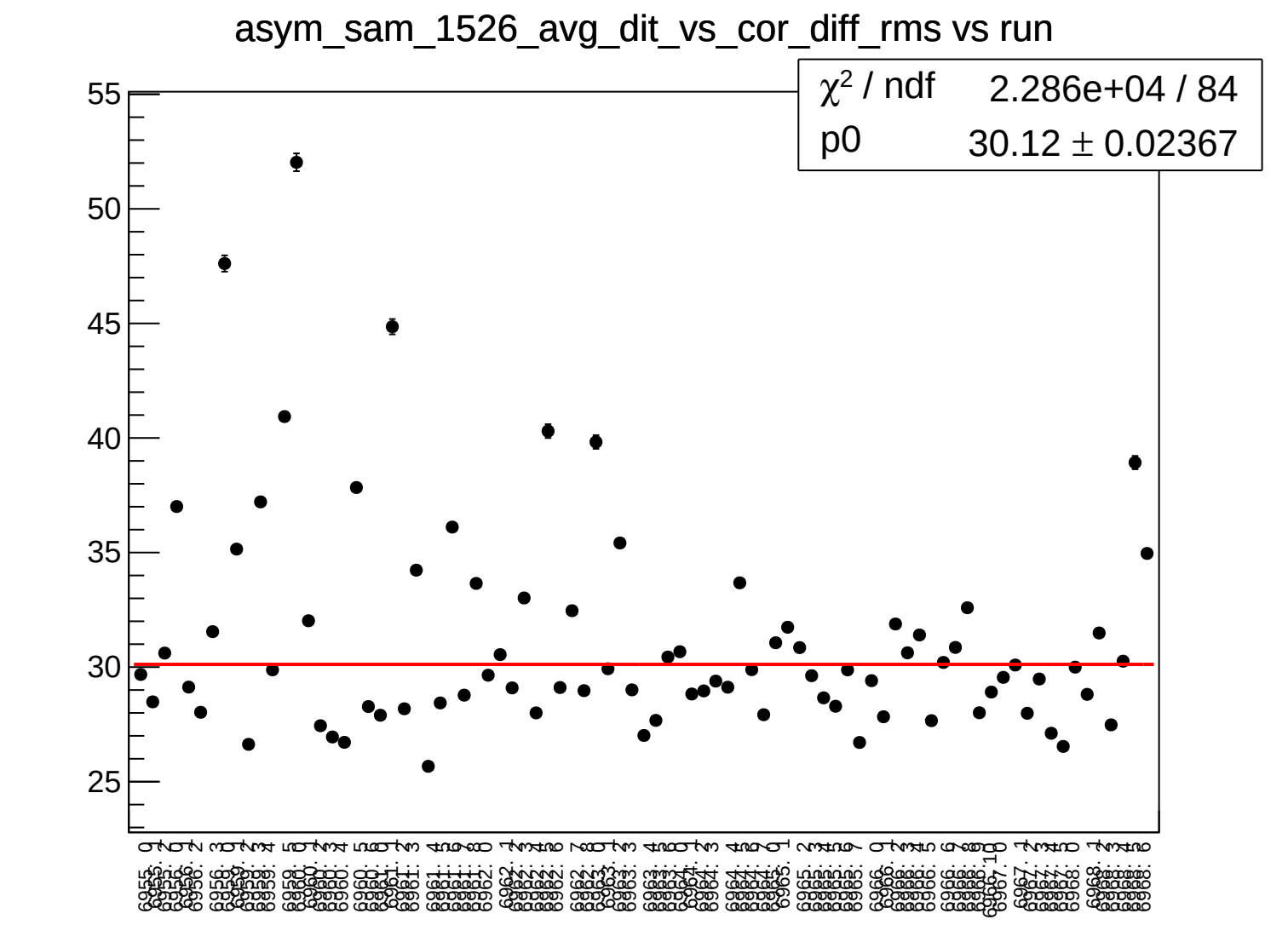

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 68.41 / 84
p0 −6.355e−15 ± 1.91e−14
pull
Entries 85
Mean 74.15
Std Dev 0

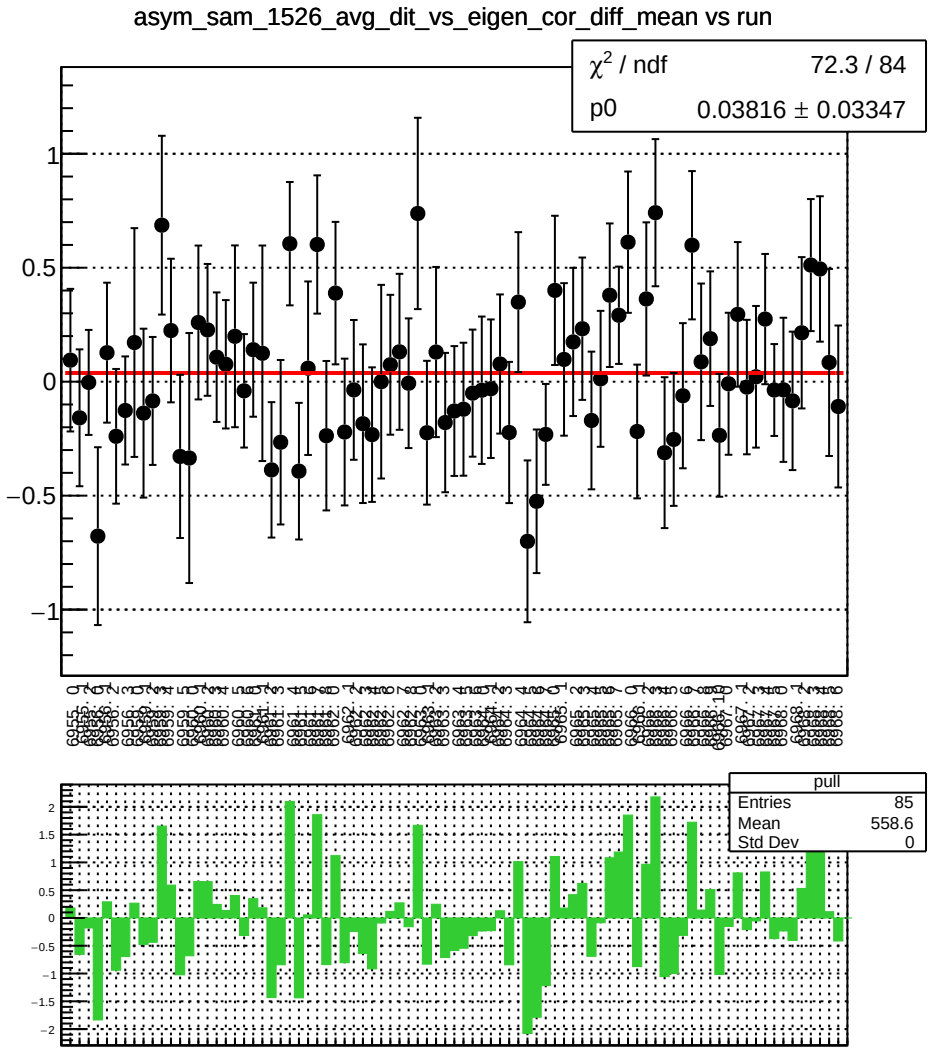

pull1D
Entries 85
Mean 0.1418
Std Dev 0.8858

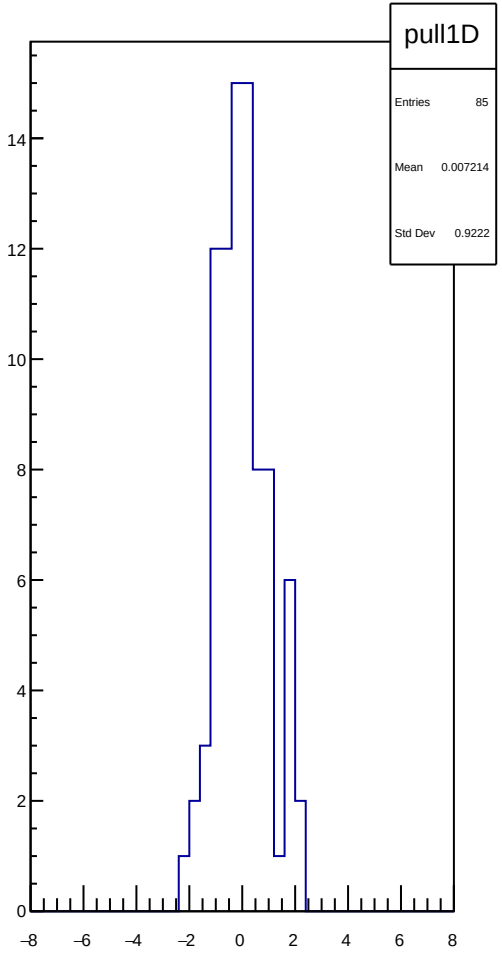

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.183e+06 / 84
p0 9.153e−12 ± 1.351e−14
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

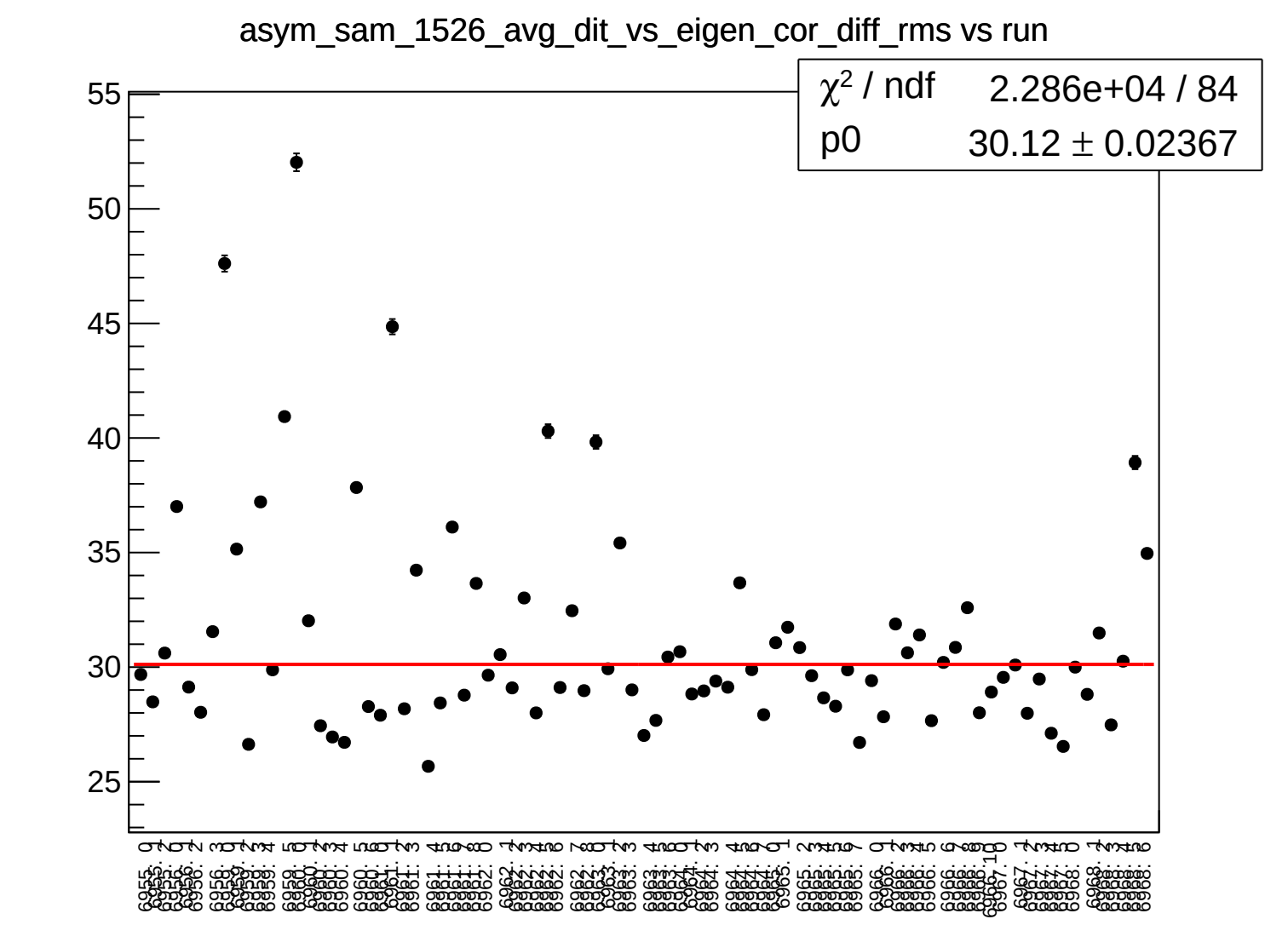

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.3 / 84
p0 0.03816 ± 0.03347
pull
Entries 85
Mean 558.6
Std Dev 0

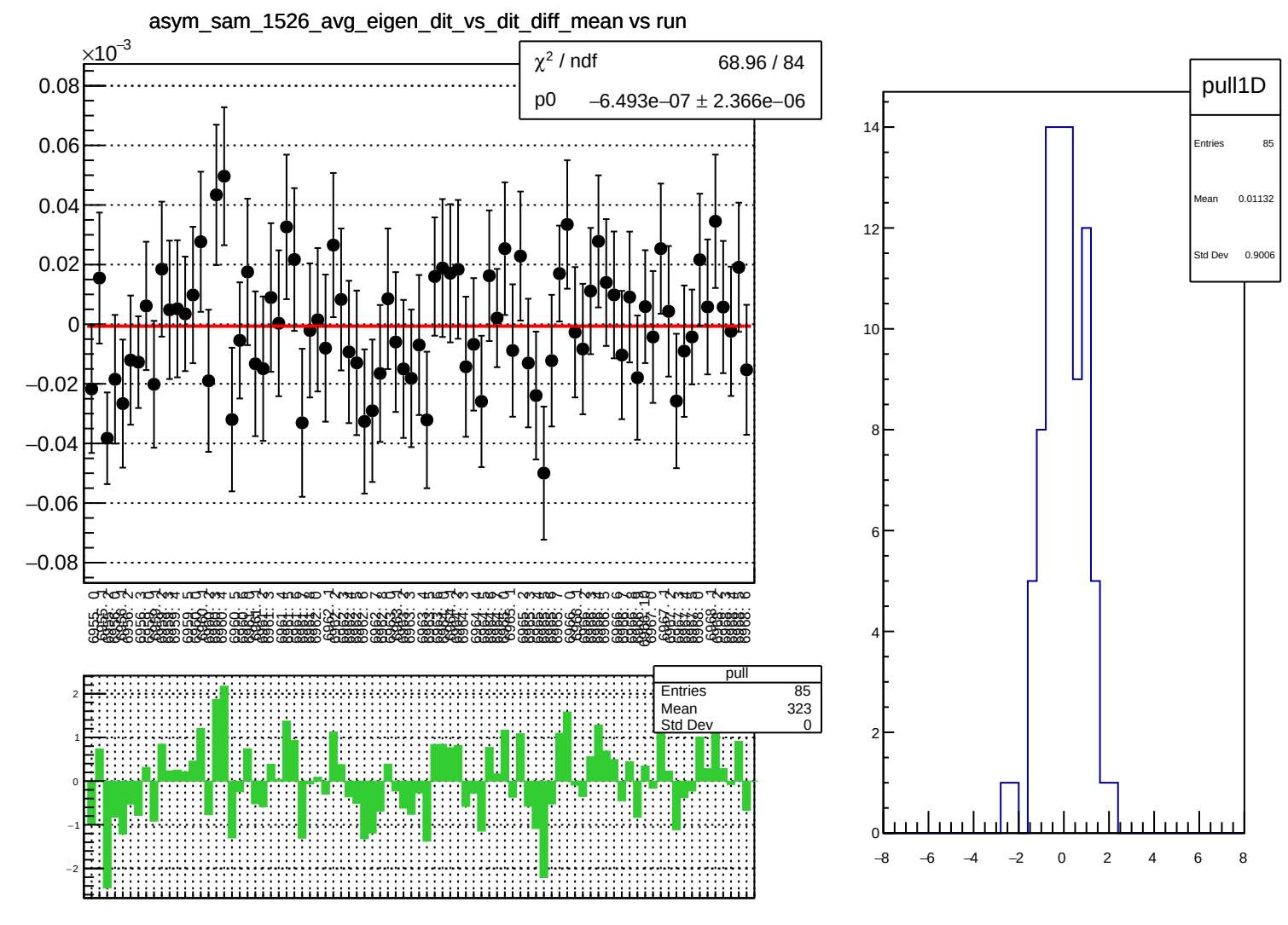

pull1D
Entries 85
Mean 0.007214
Std Dev 0.9222

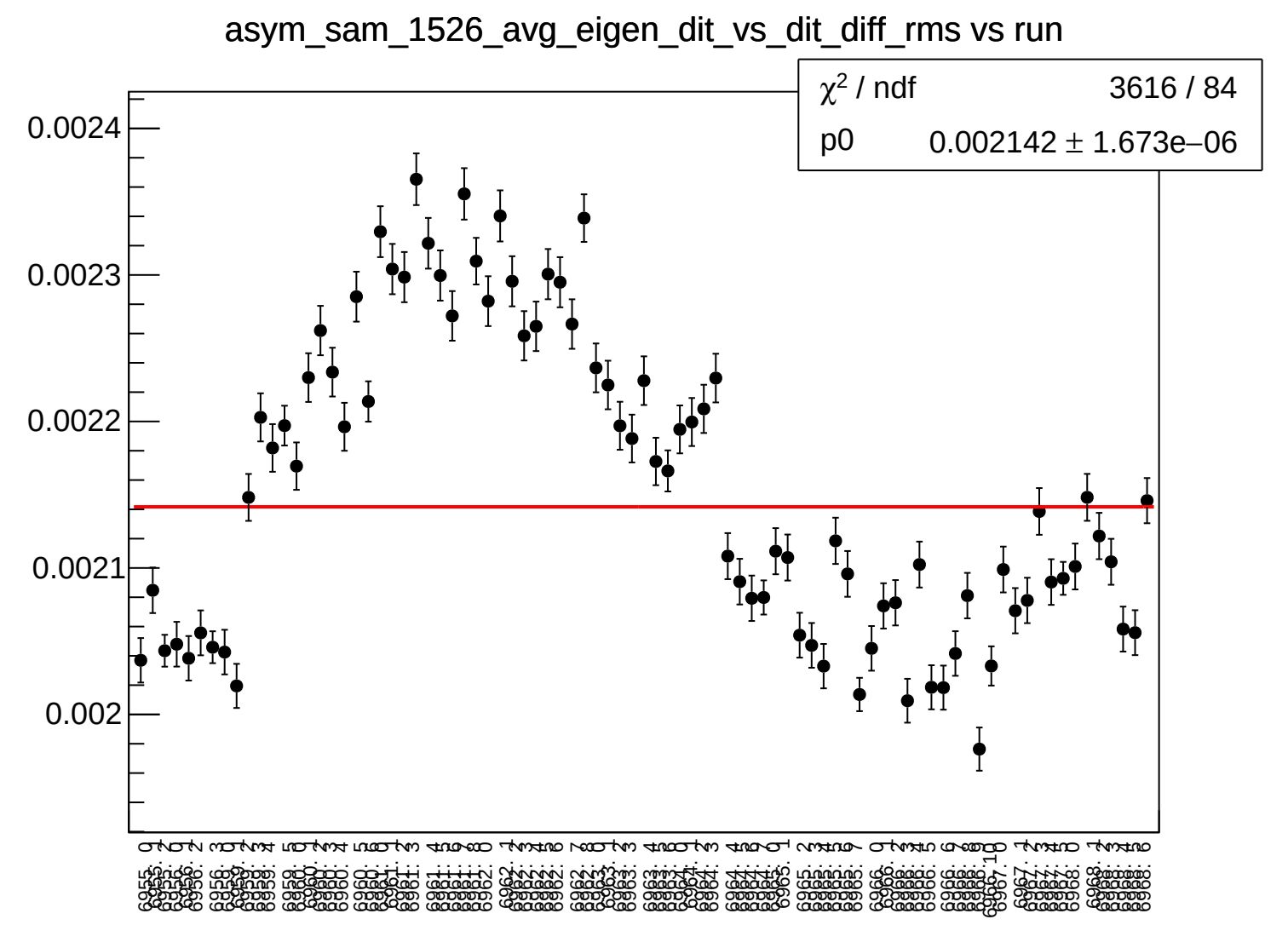

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.286e+04 / 84
p0 30.12 ± 0.02367
55
50
45
40
35
30
25

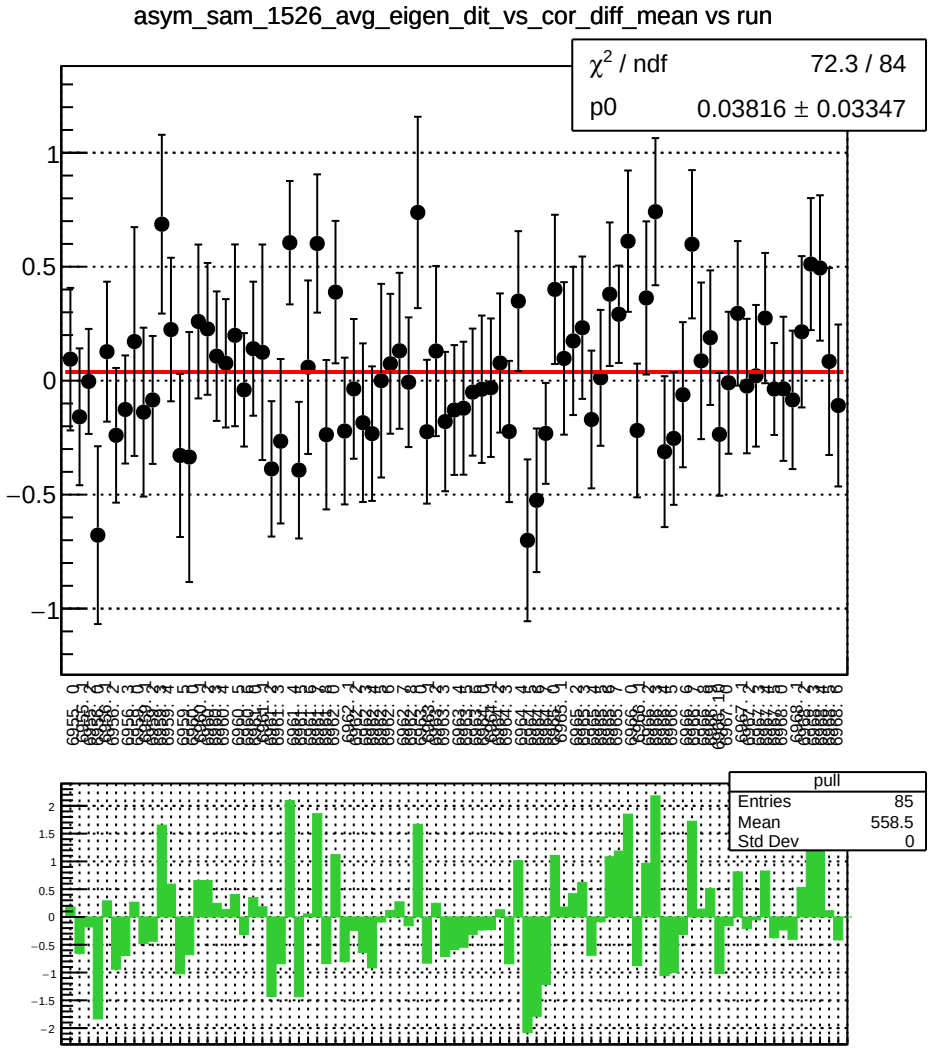

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.3 / 84
p0 0.03816 ± 0.03347
pull
Entries 85
Mean 558.6
Std Dev 0

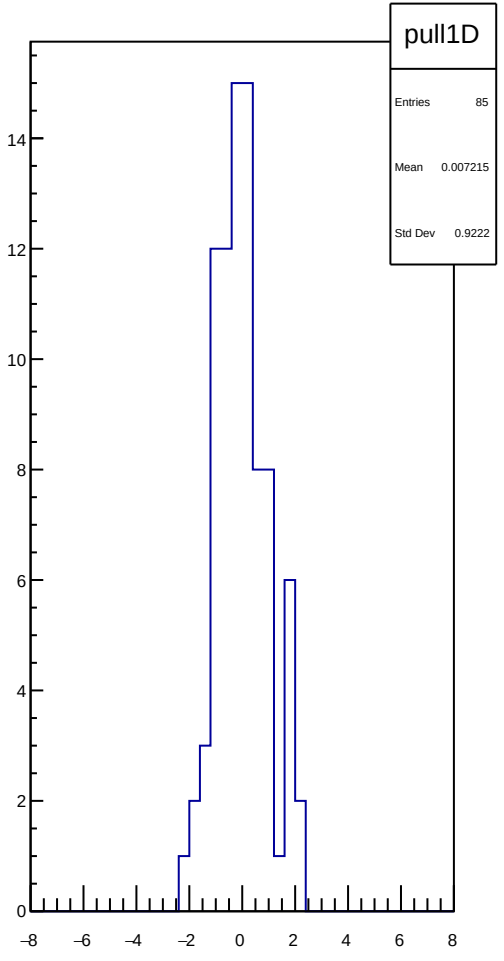

pull1D
Entries 85
Mean 0.007214
Std Dev 0.9222

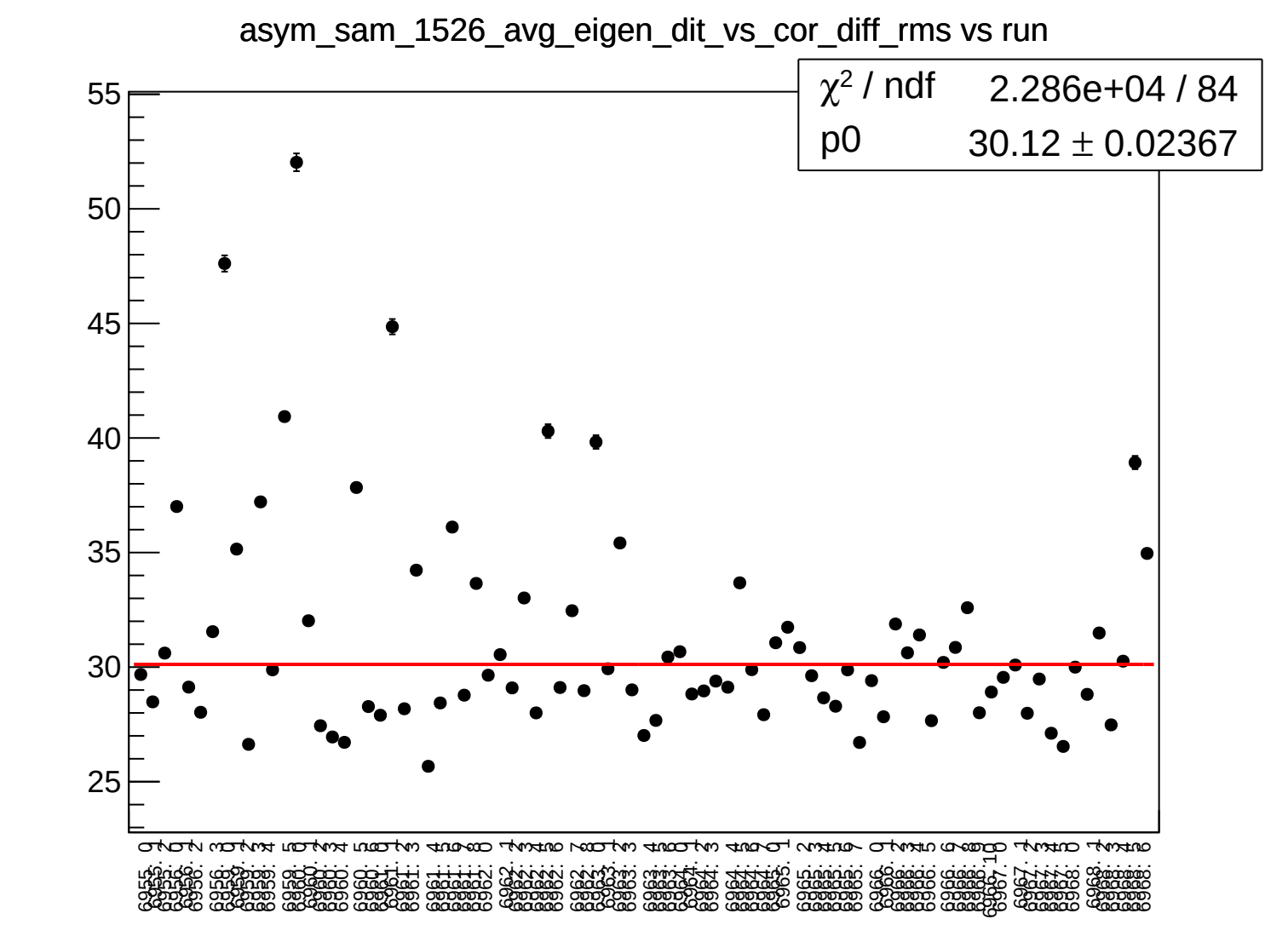

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.286e+04 / 84
p0 30.12 ± 0.02367
55
50
45
40
35
30
25

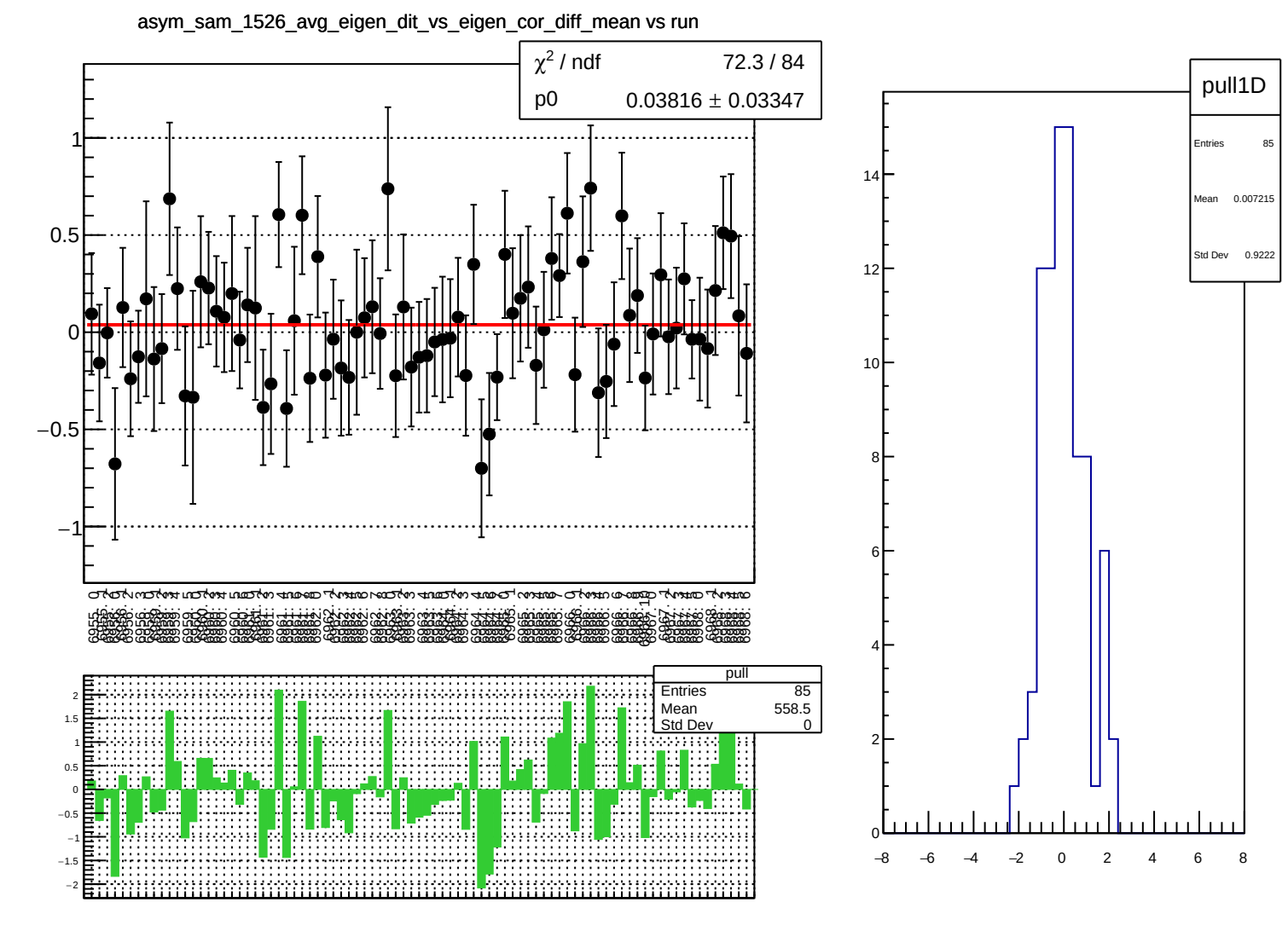

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.96 / 84
p0 −6.493e−07 ± 2.366e−06
pull
Entries 85
Mean 323
Std Dev 0
pull1D
Entries 85
Mean 0.01132
Std Dev 0.9006

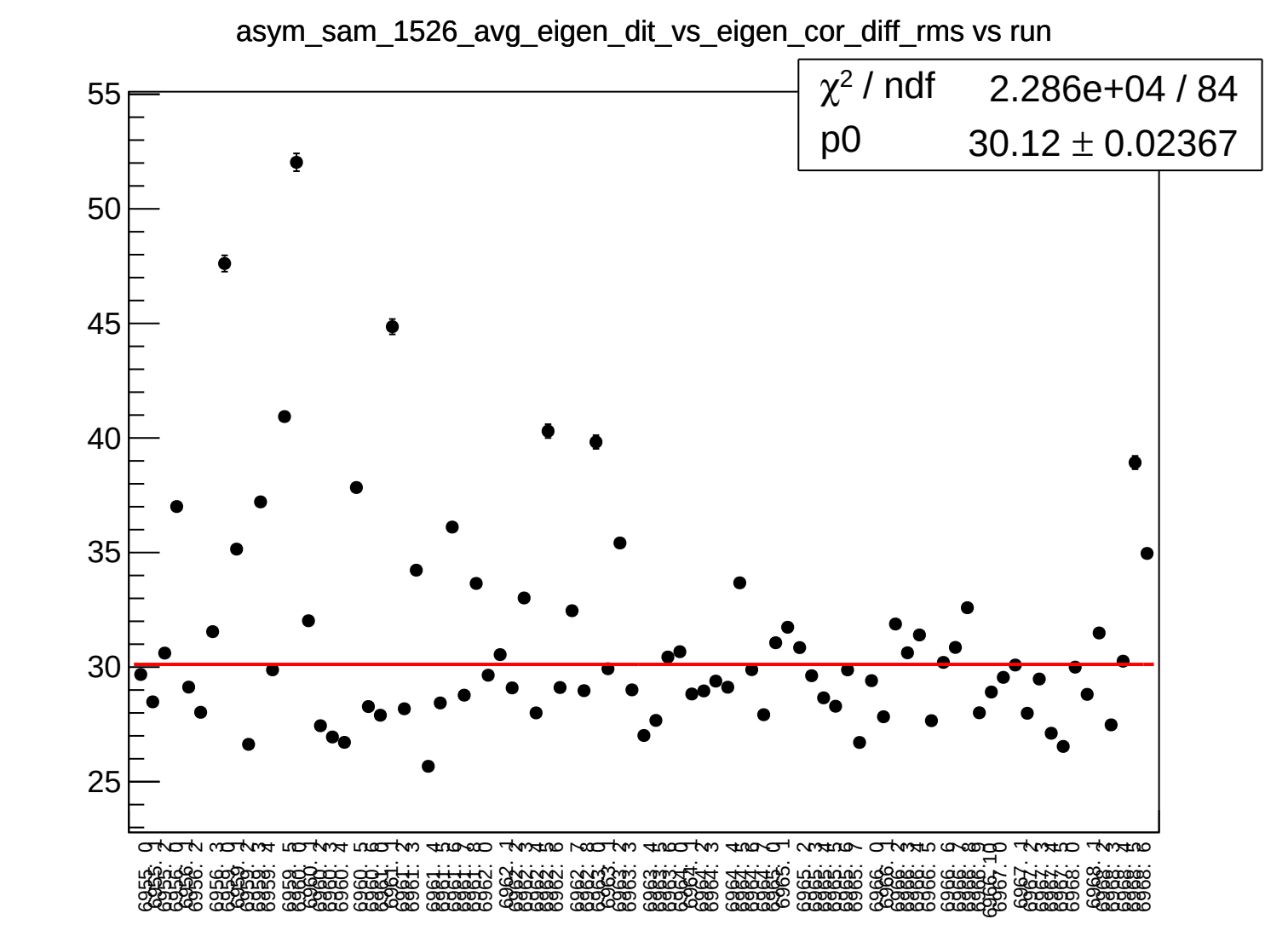

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3616 / 84
p0 0.002142 ± 1.673e−06
0.0024
0.0023
0.0022
0.0021
0.002

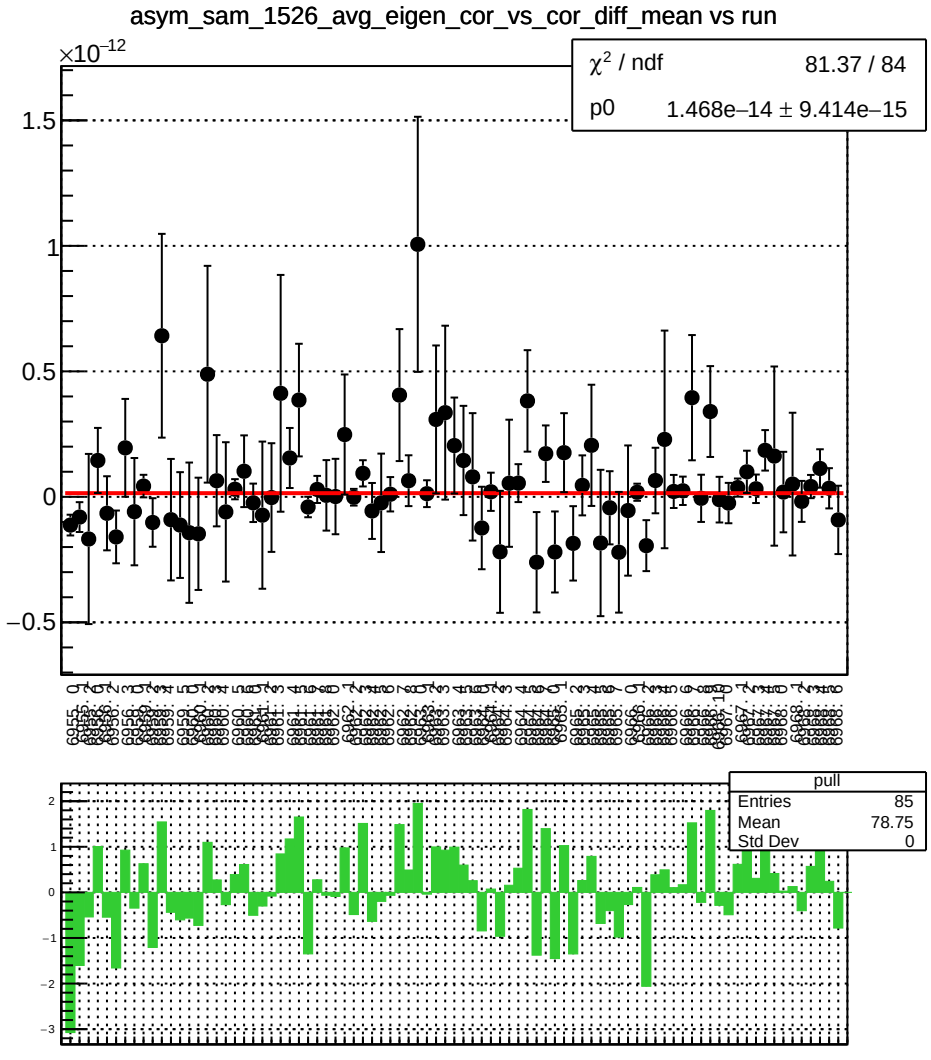

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.3 / 84
p0 0.03816 ± 0.03347
pull
Entries 85
Mean 558.5
Std Dev 0

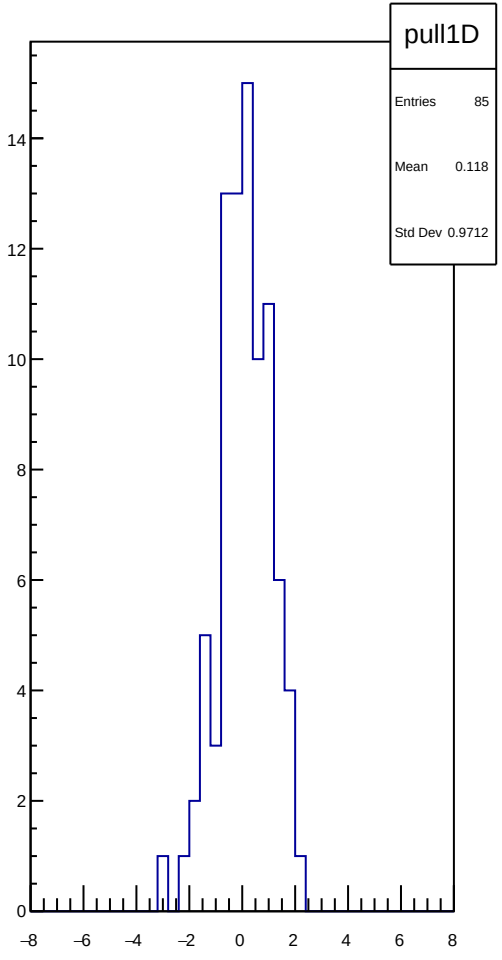

pull1D
Entries 85
Mean 0.007215
Std Dev 0.9222

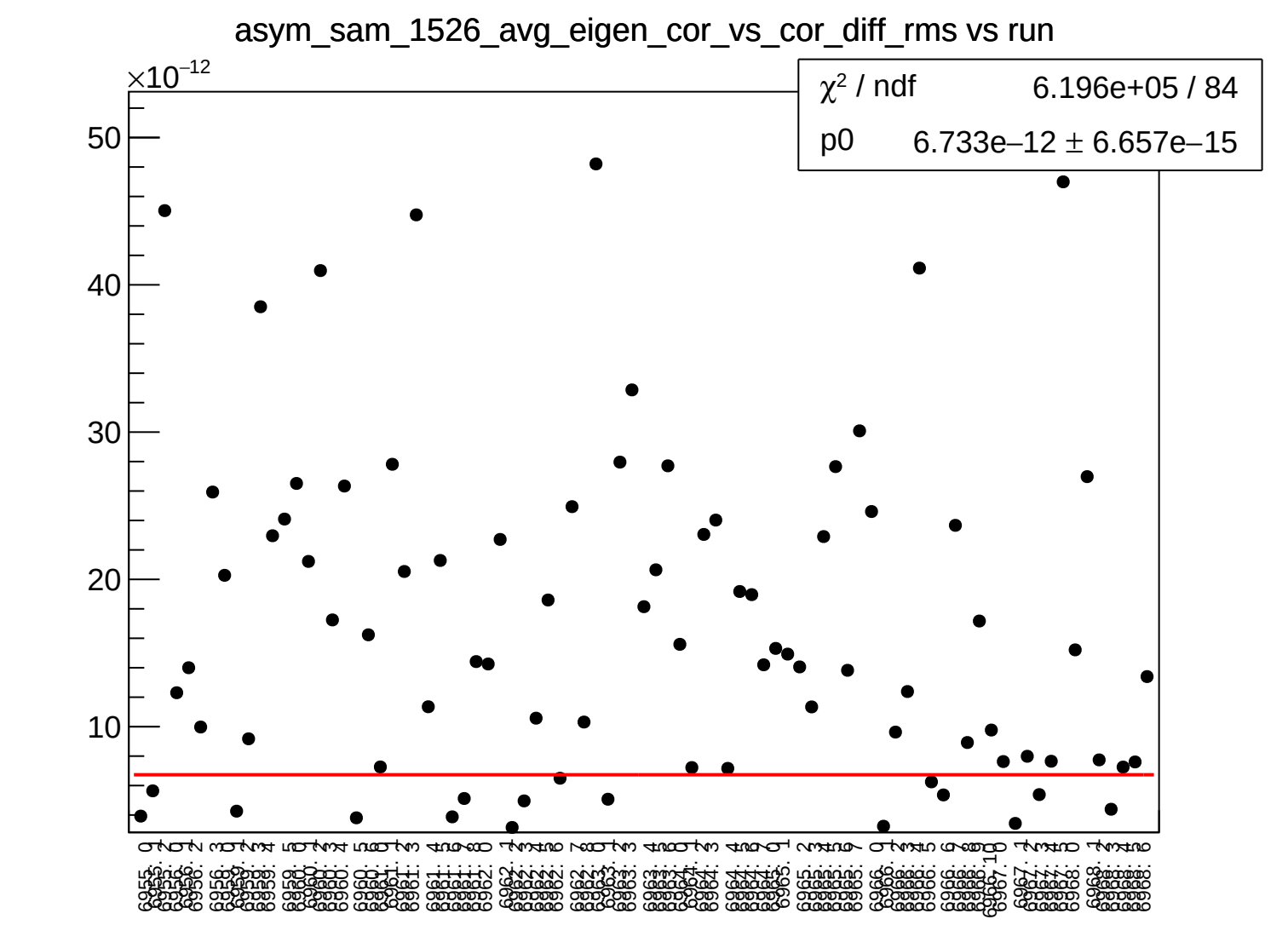

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.286e+04 / 84
p0 30.12 ± 0.02367
55
50
45
40
35
30
25

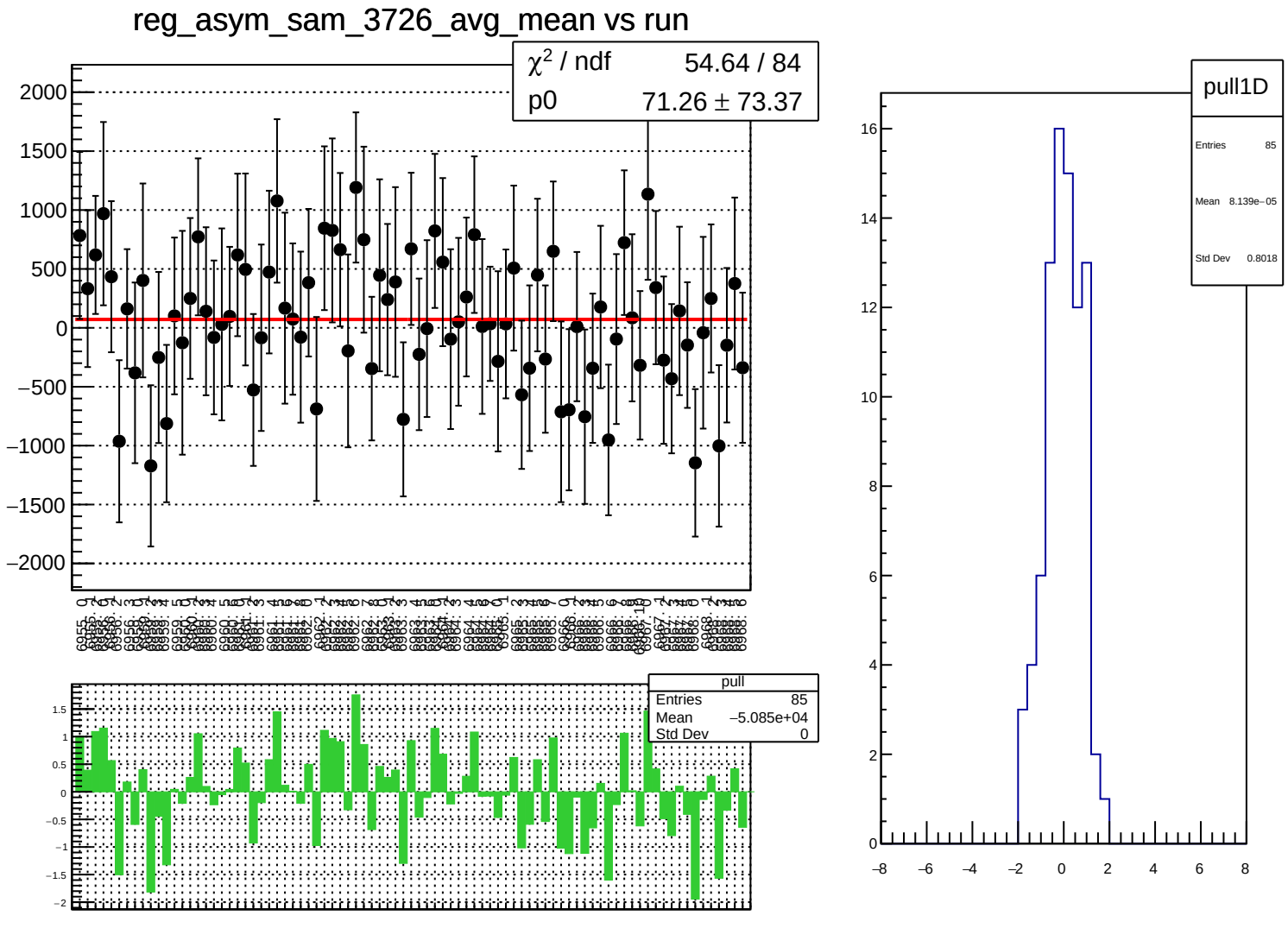

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.3 / 84
p0 0.03816 ± 0.03347
pull
Entries 85
Mean 558.5
Std Dev 0
pull1D
Entries 85
Mean 0.007215
Std Dev 0.9222

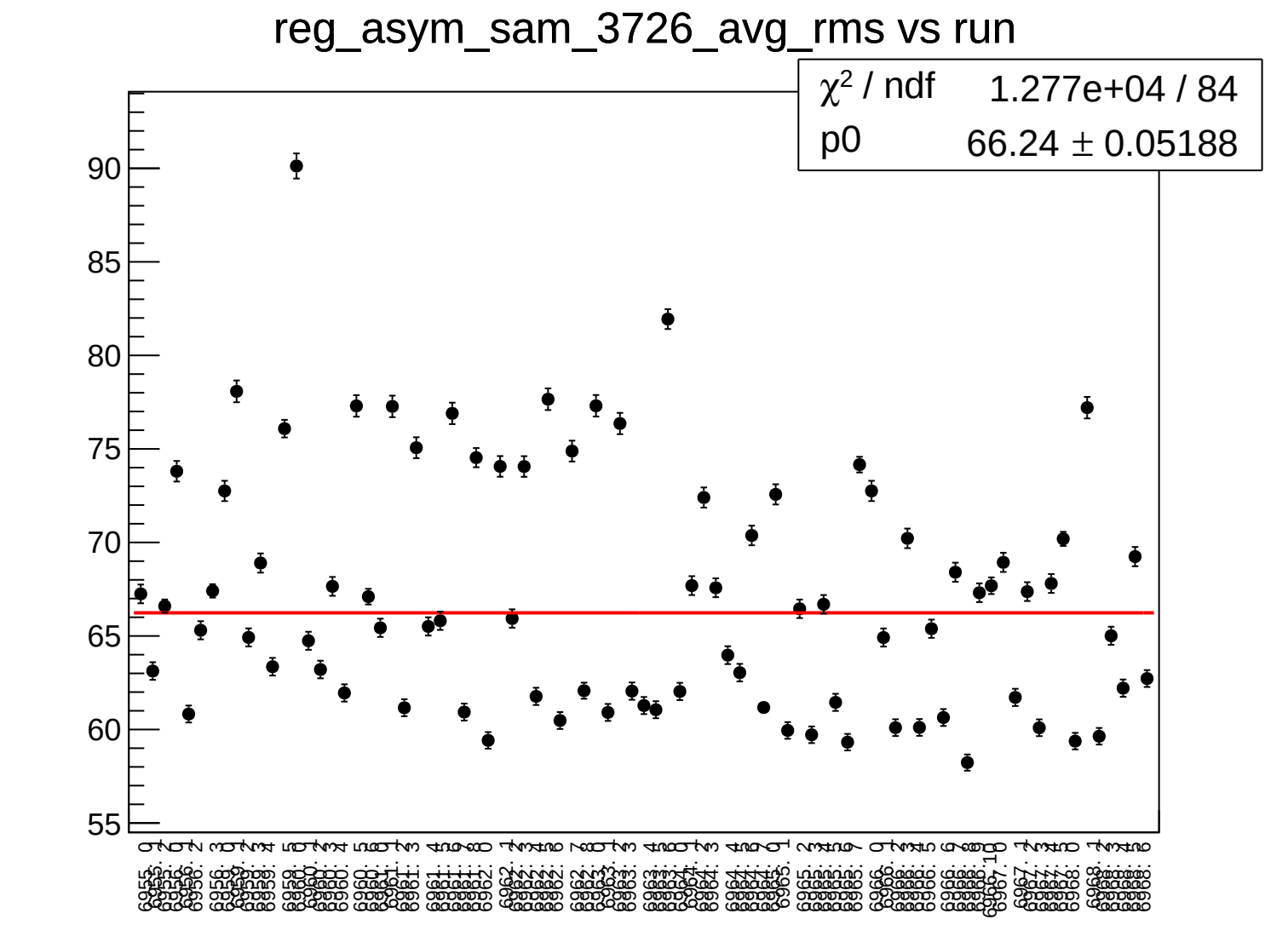

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.286e+04 / 84
p0 30.12 ± 0.02367
55
50
45
40
35
30
25

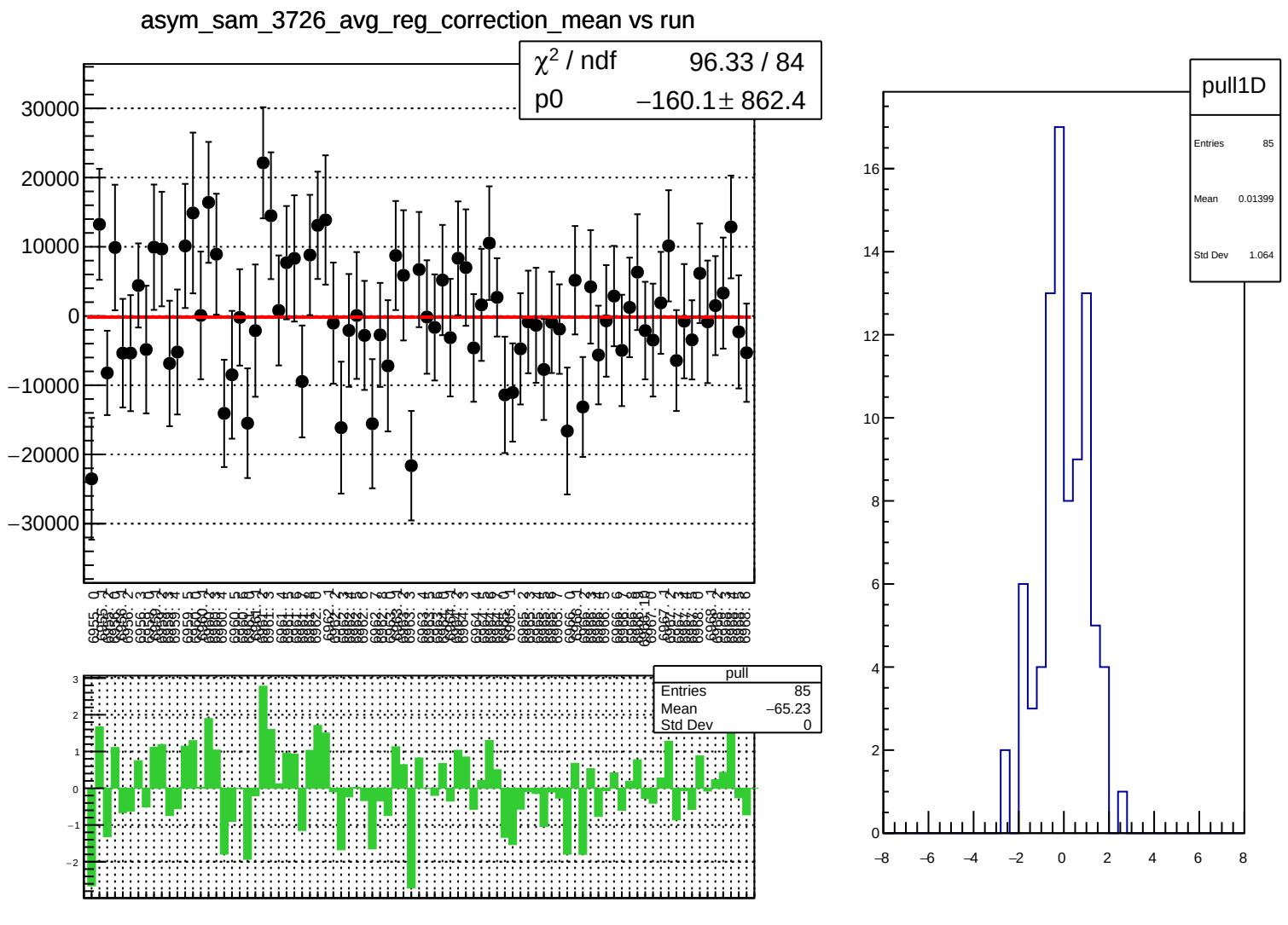

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.37 / 84
p0 1.468e−14 ± 9.414e−15
1.5
1
0.5
0
−0.5
pull
Entries 85
Mean 78.75
Std Dev 0
2
1
0
−1
−2
−3

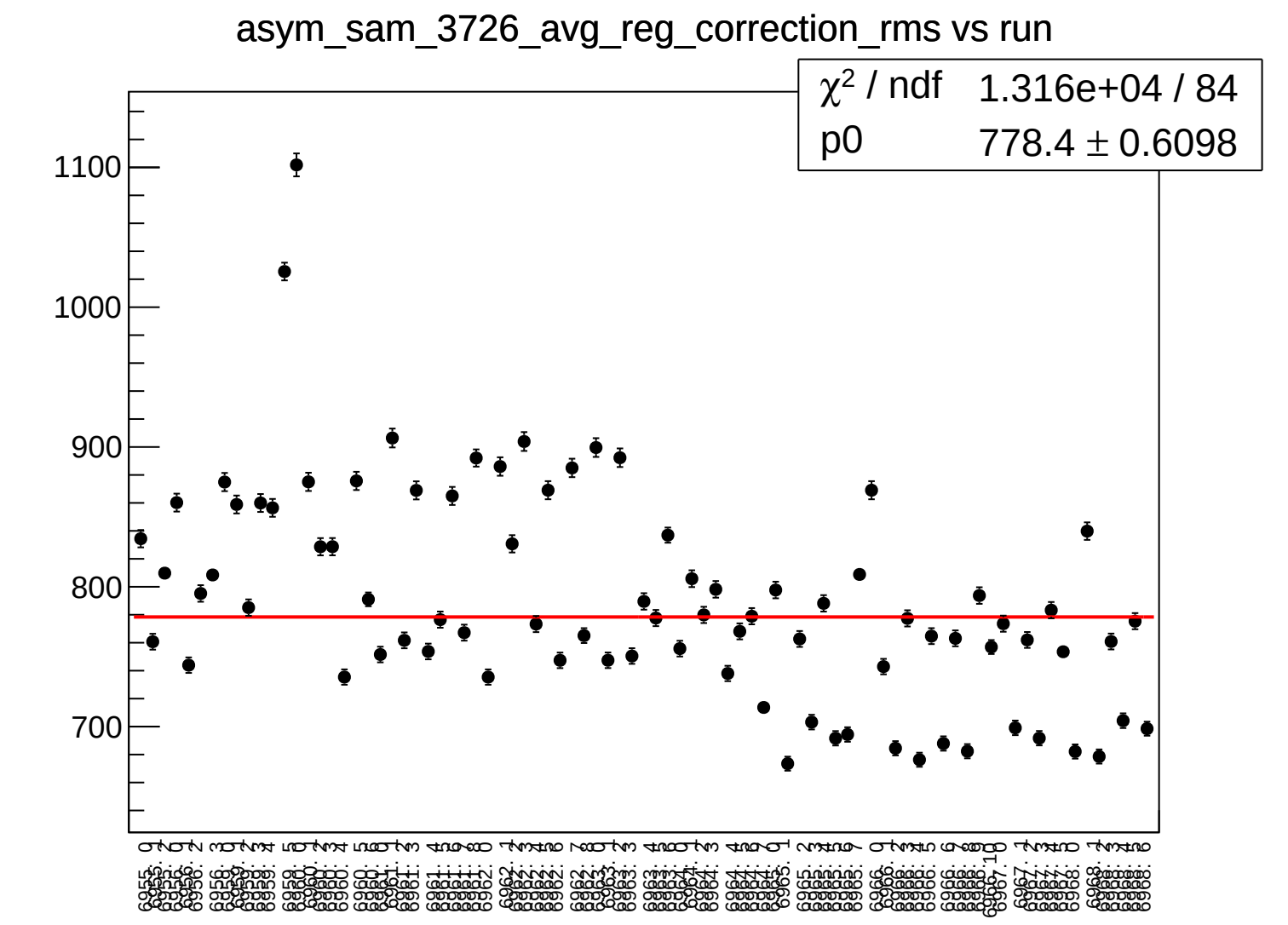

pull1D
Entries 85
Mean 0.118
Std Dev 0.9712
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

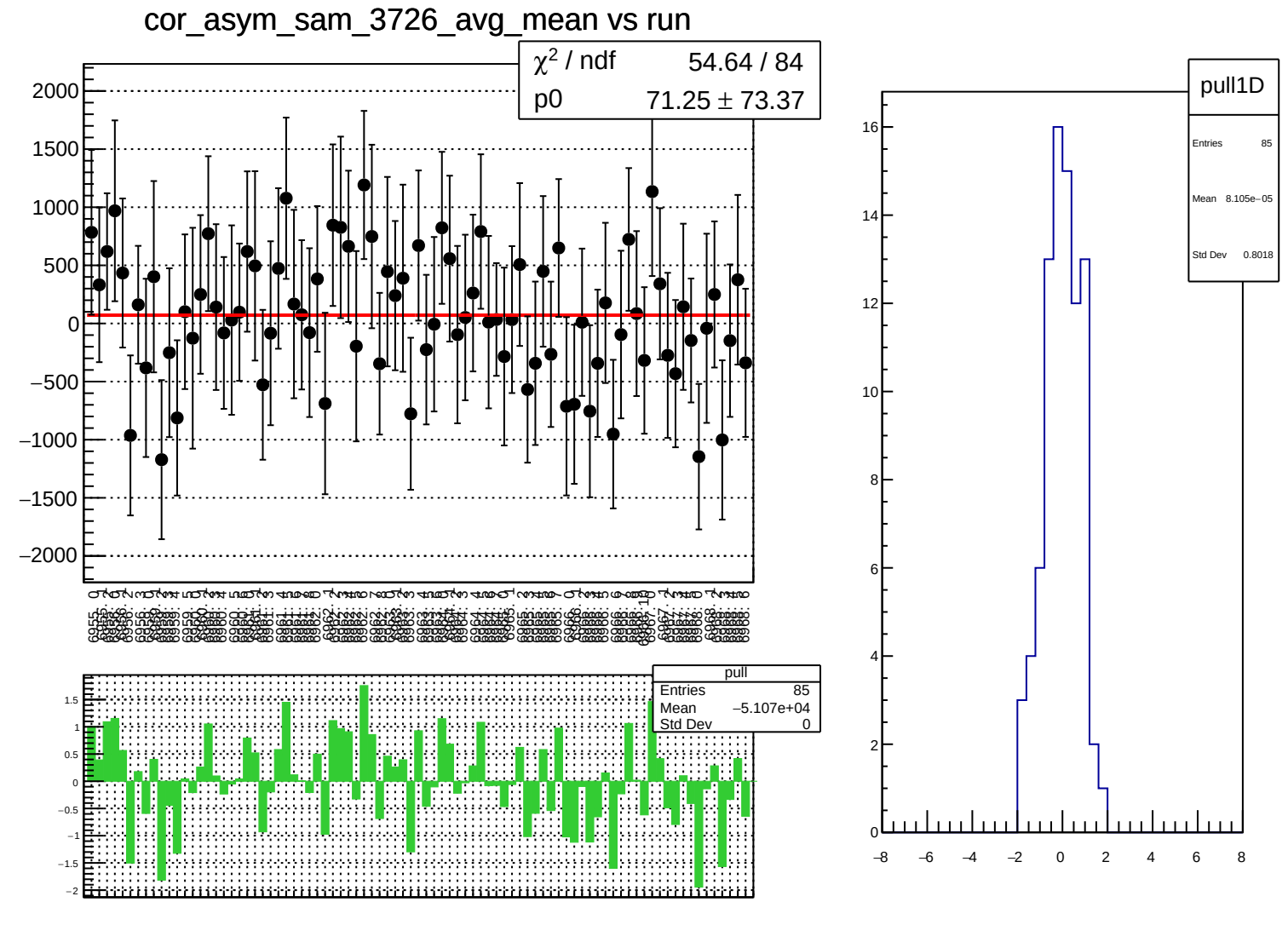

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.196e+05 / 84
p0 6.733e−12 ± 6.657e−15
50
40
30
20
10

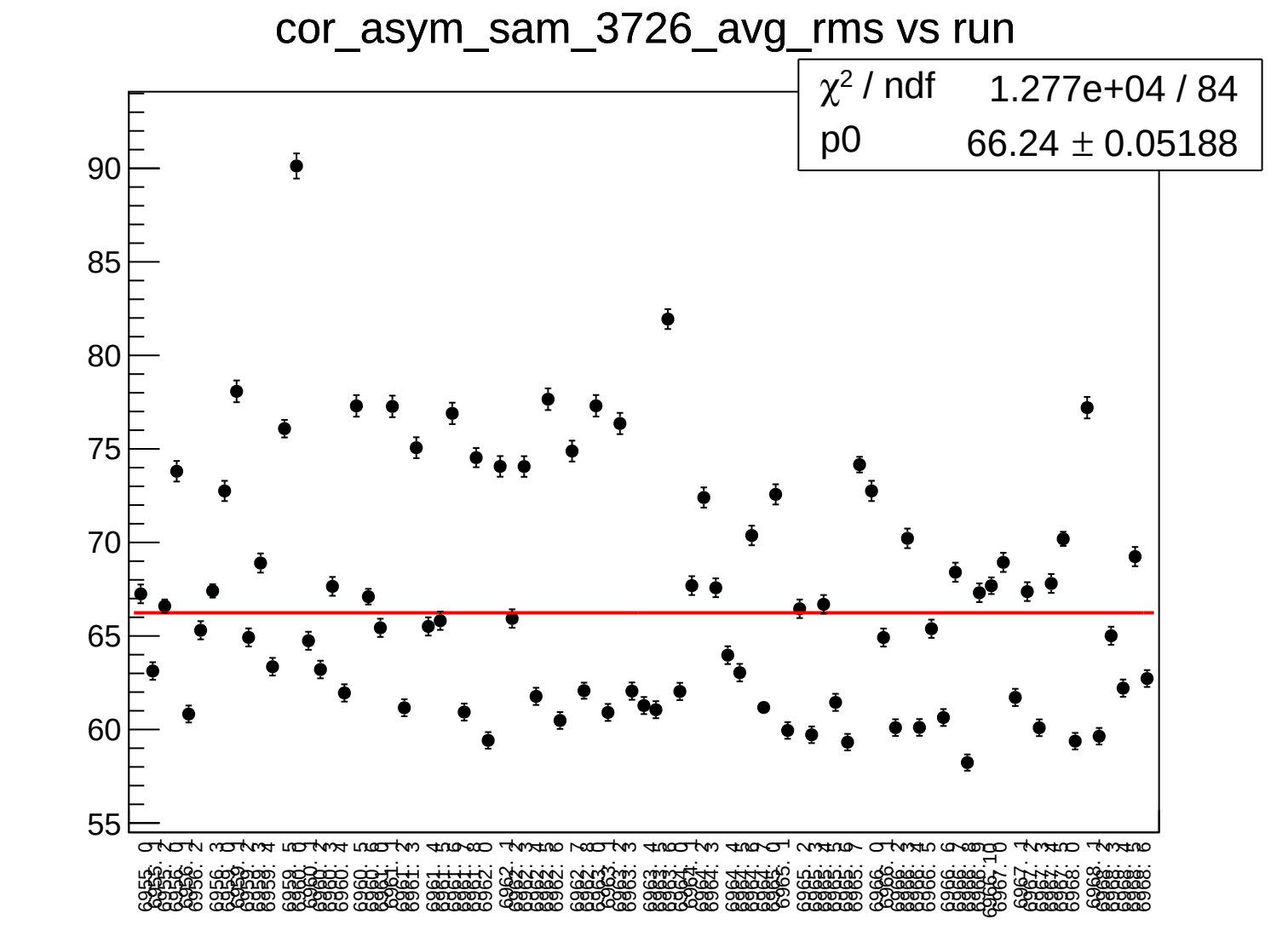

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 54.64 / 84
p0 71.26 ± 73.37
pull
Entries 85
Mean −5.085e+04
Std Dev 0
pull1D
Entries 85
Mean 8.139e−05
Std Dev 0.8018

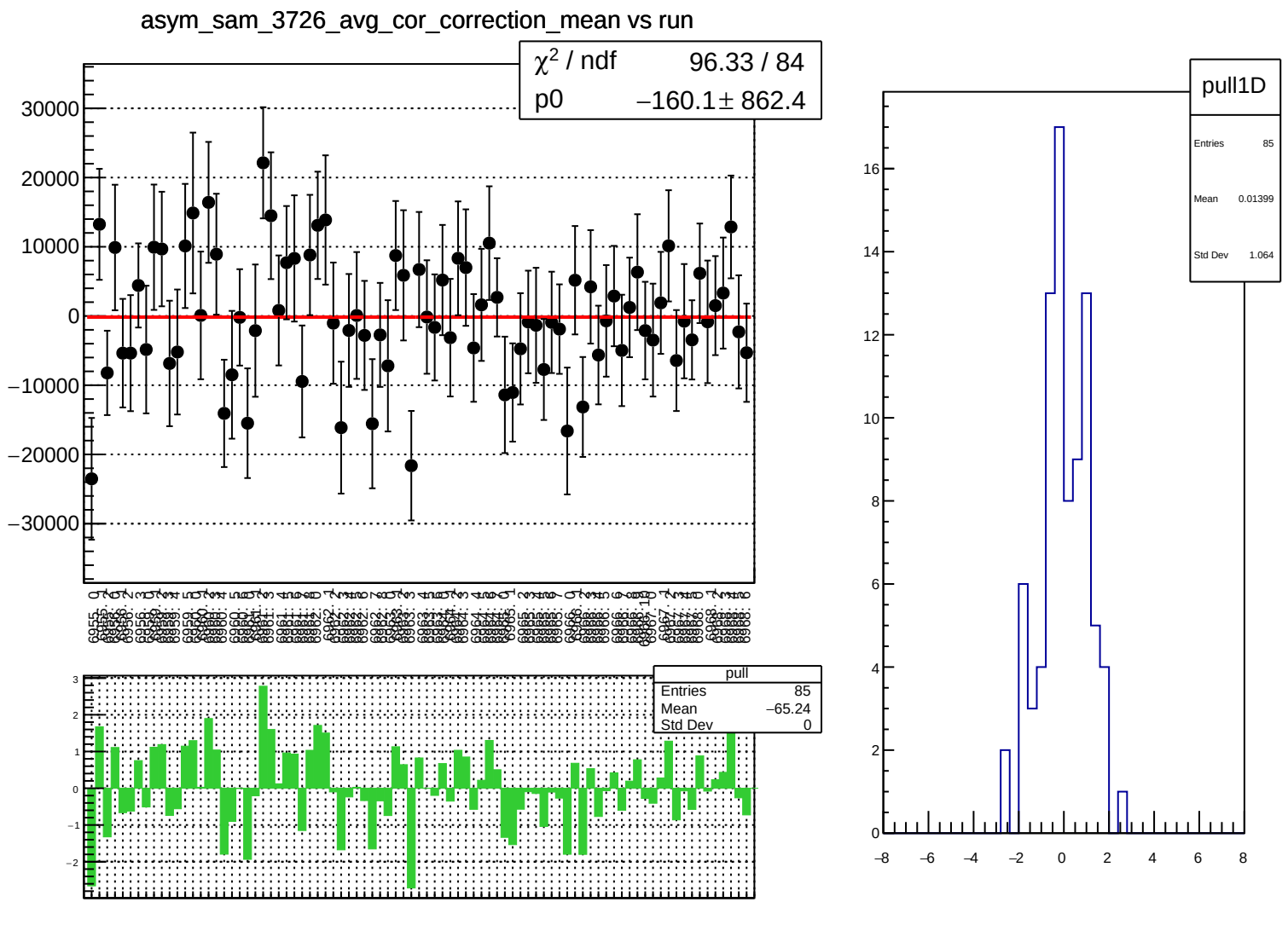

reg_asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 1.277e+04 / 84
p0 66.24 ± 0.05188
90
85
80
75
70
65
60
55

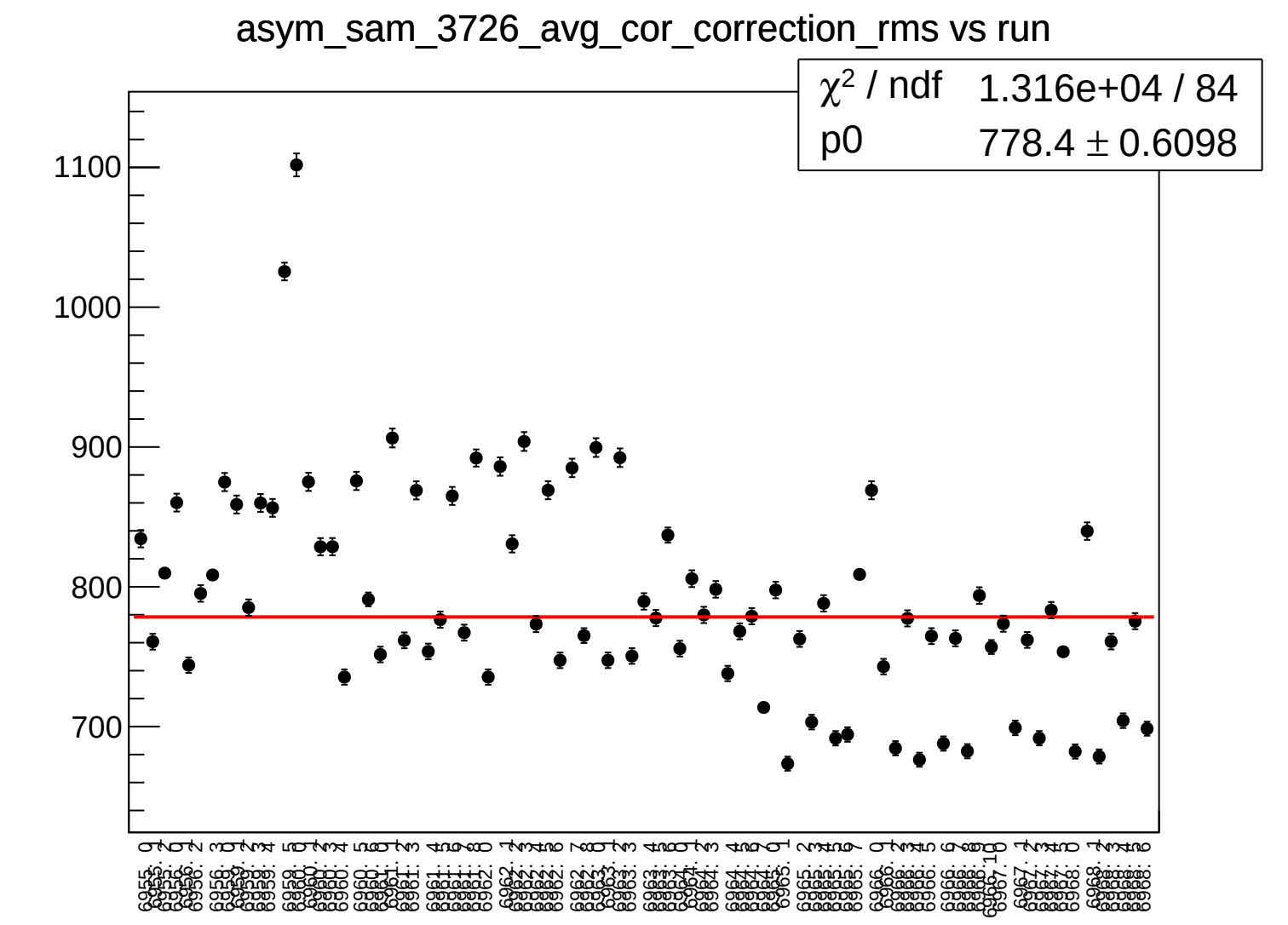

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 96.33 / 84
p0 −160.1± 862.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −65.23
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01399
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

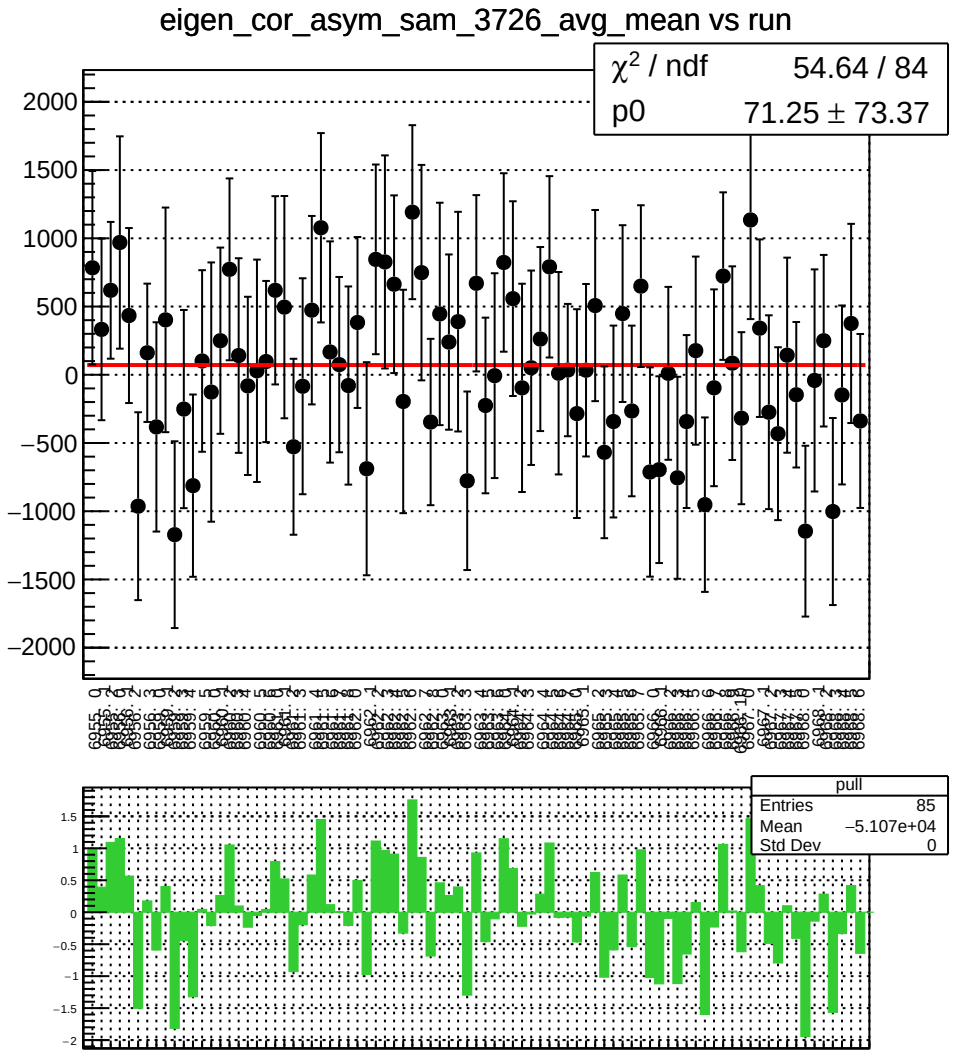

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.316e+04 / 84
p0 778.4 ± 0.6098
1100
1000
900
800
700

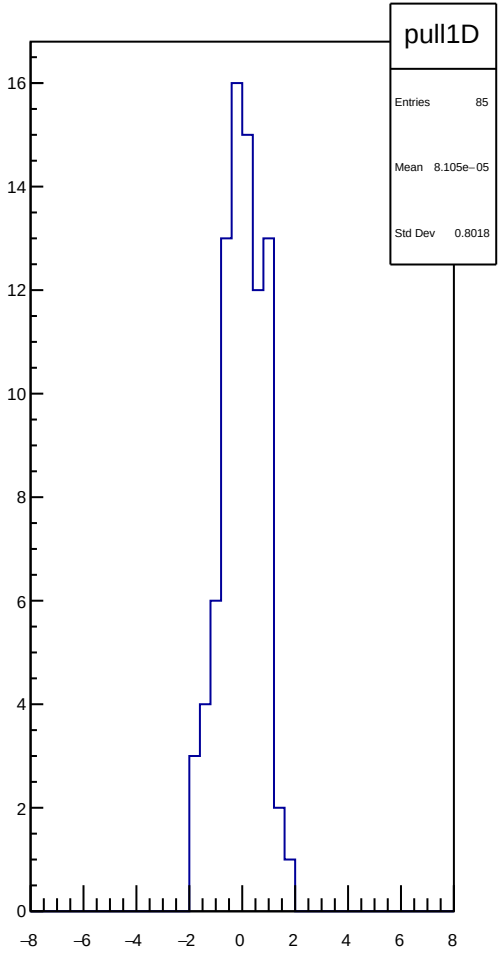

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 54.64 / 84
p0 71.25 ± 73.37
pull
Entries 85
Mean −5.107e+04
Std Dev 0
pull1D
Entries 85
Mean 8.105e−05
Std Dev 0.8018

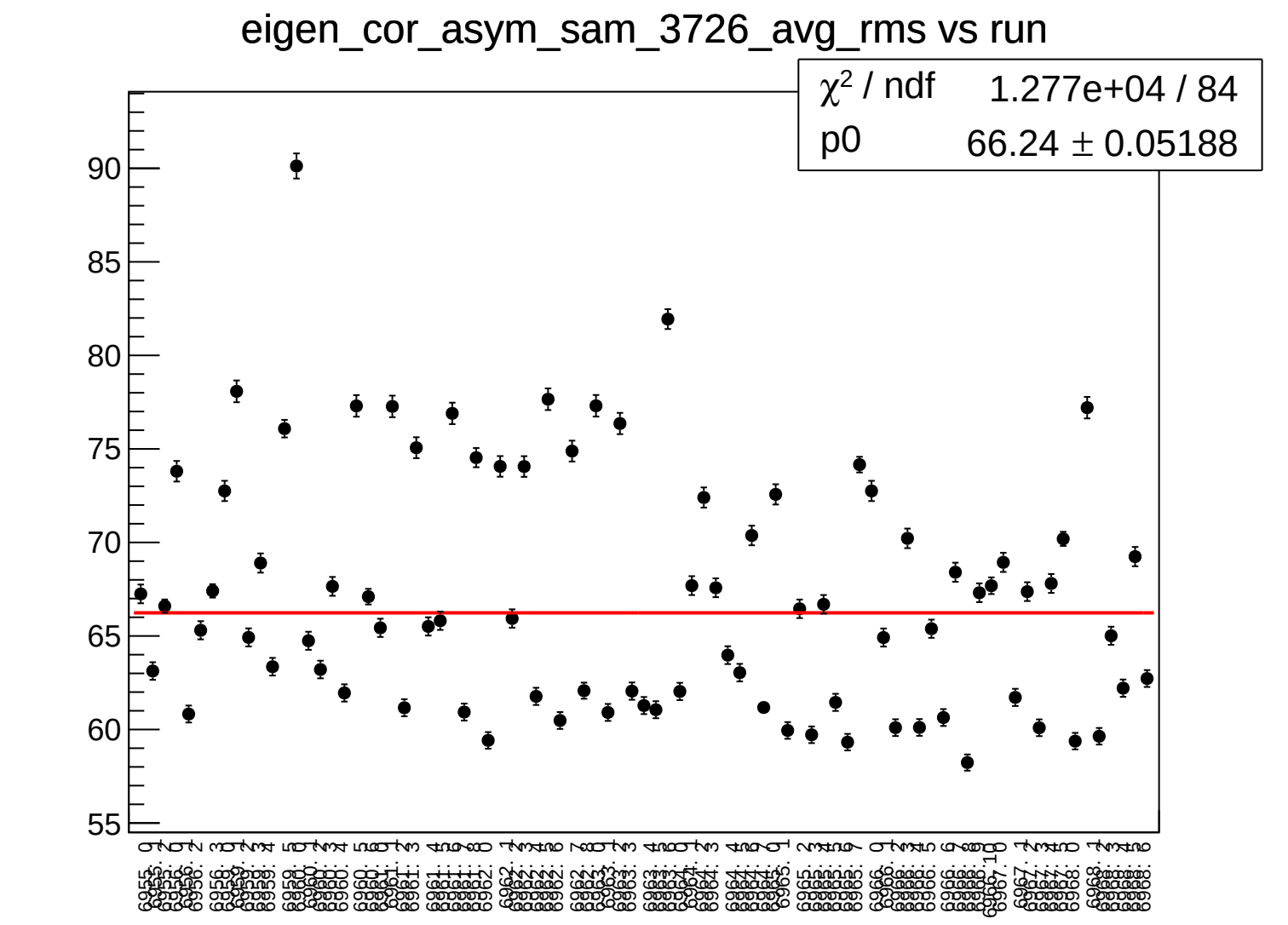

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.277e+04 / 84
p0 66.24 ± 0.05188
90
85
80
75
70
65
60
55

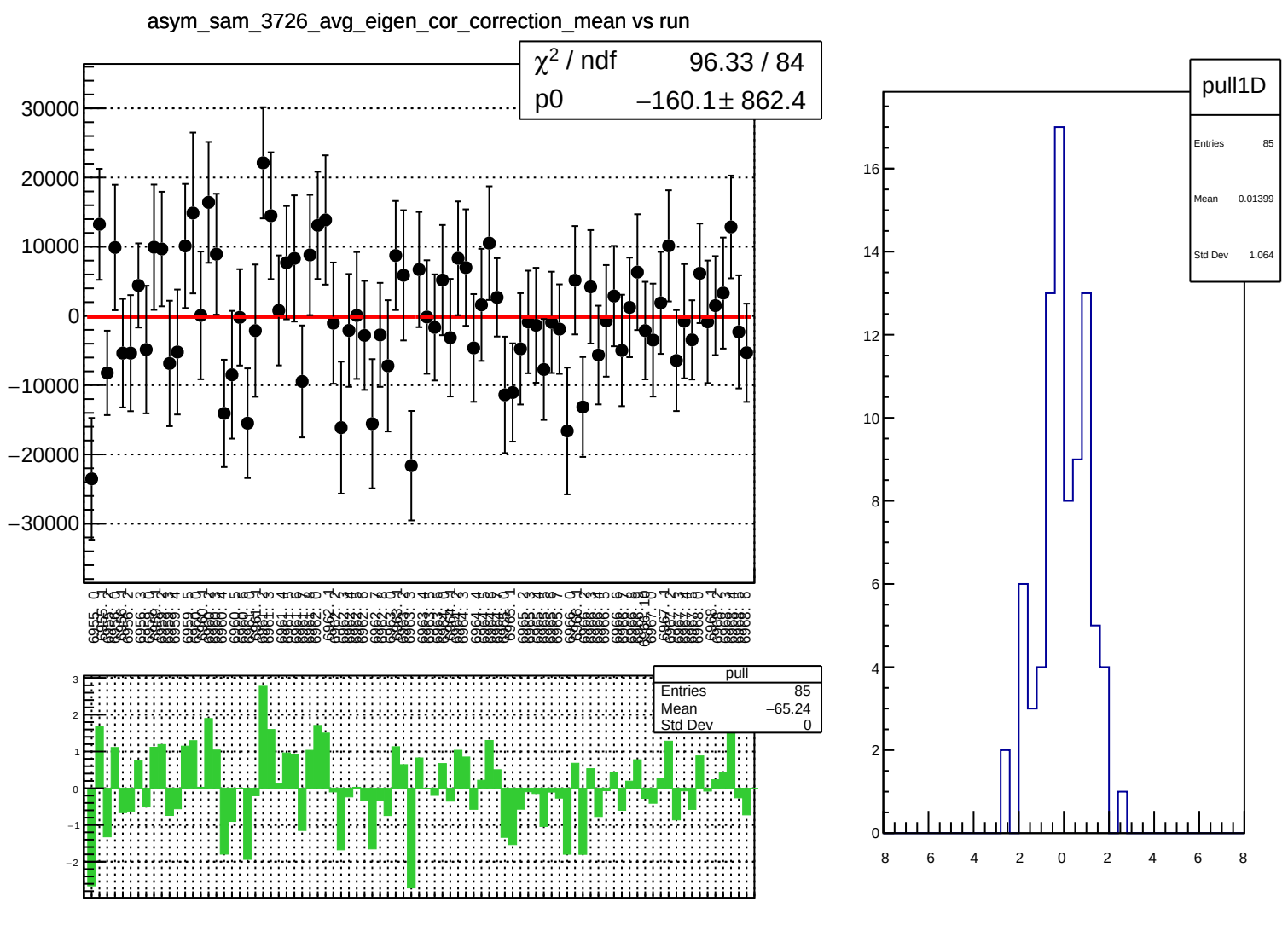

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 96.33 / 84
p0 −160.1 ± 862.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −65.24
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01399
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

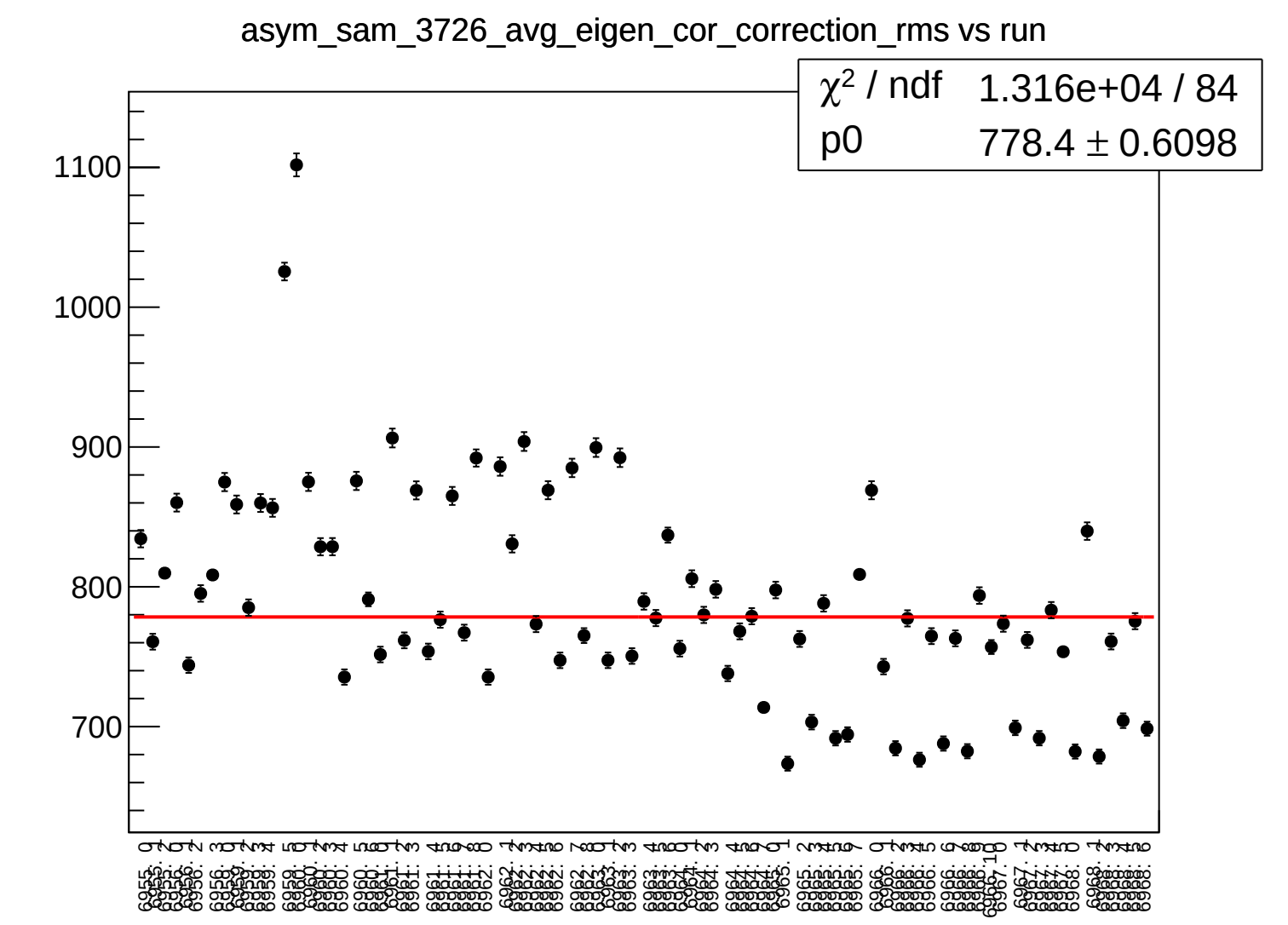

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.316e+04 / 84
p0 778.4 ± 0.6098
1100
1000
900
800
700

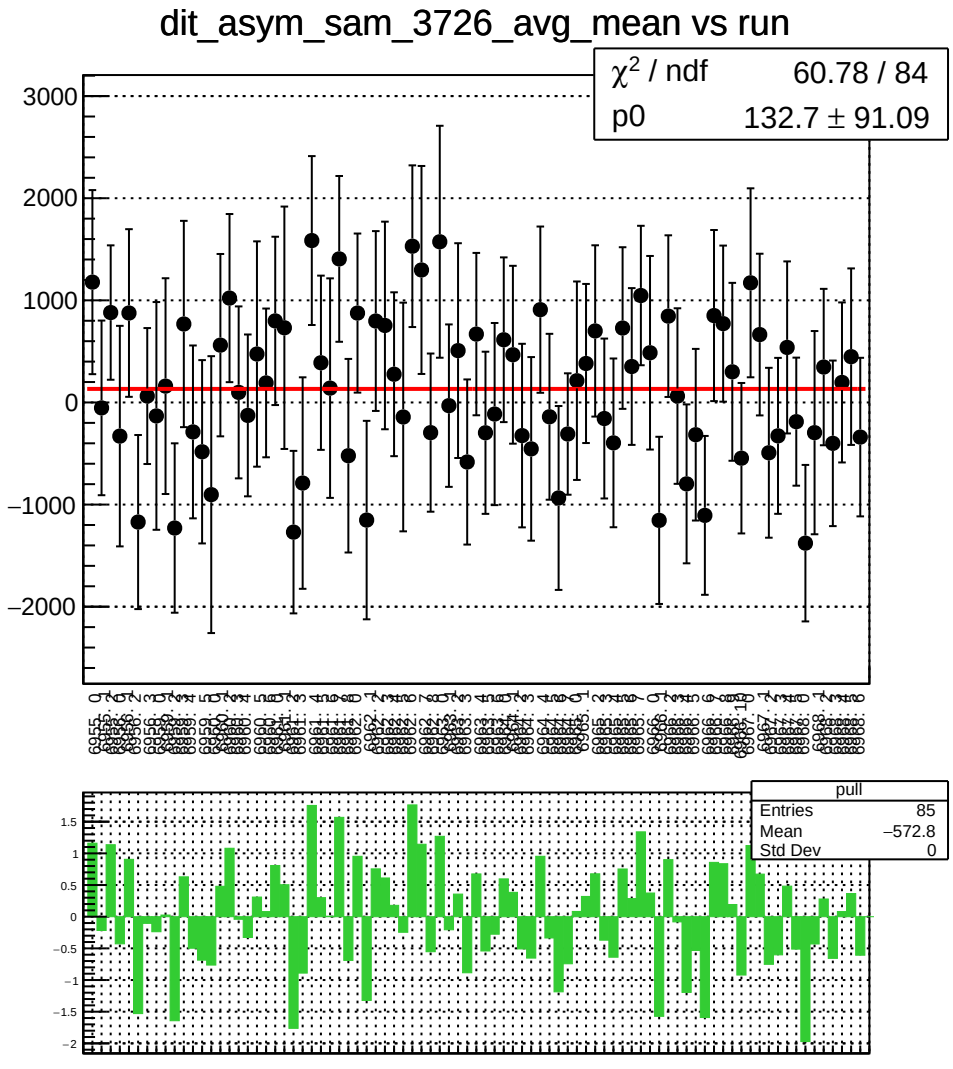

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 54.64 / 84
p0 71.25 ± 73.37
pull
Entries 85
Mean −5.107e+04
Std Dev 0

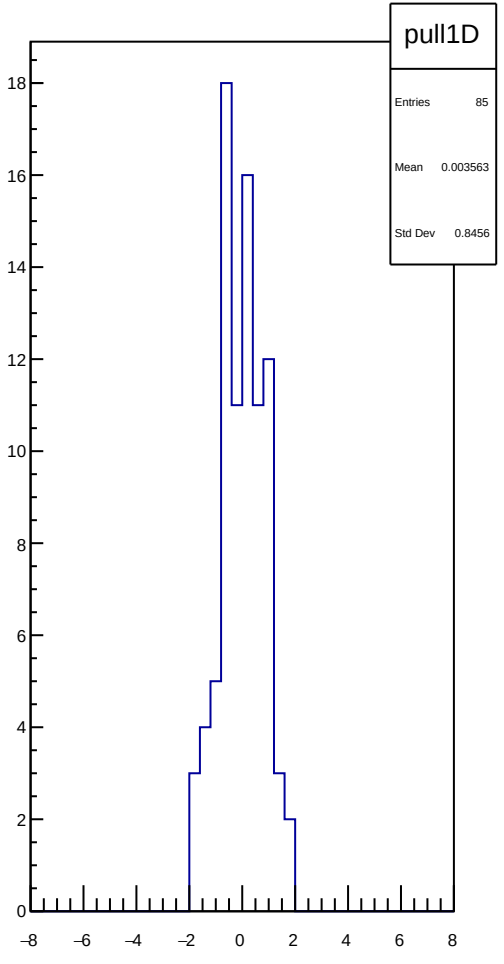

pull1D
Entries 85
Mean 8.105e−05
Std Dev 0.8018

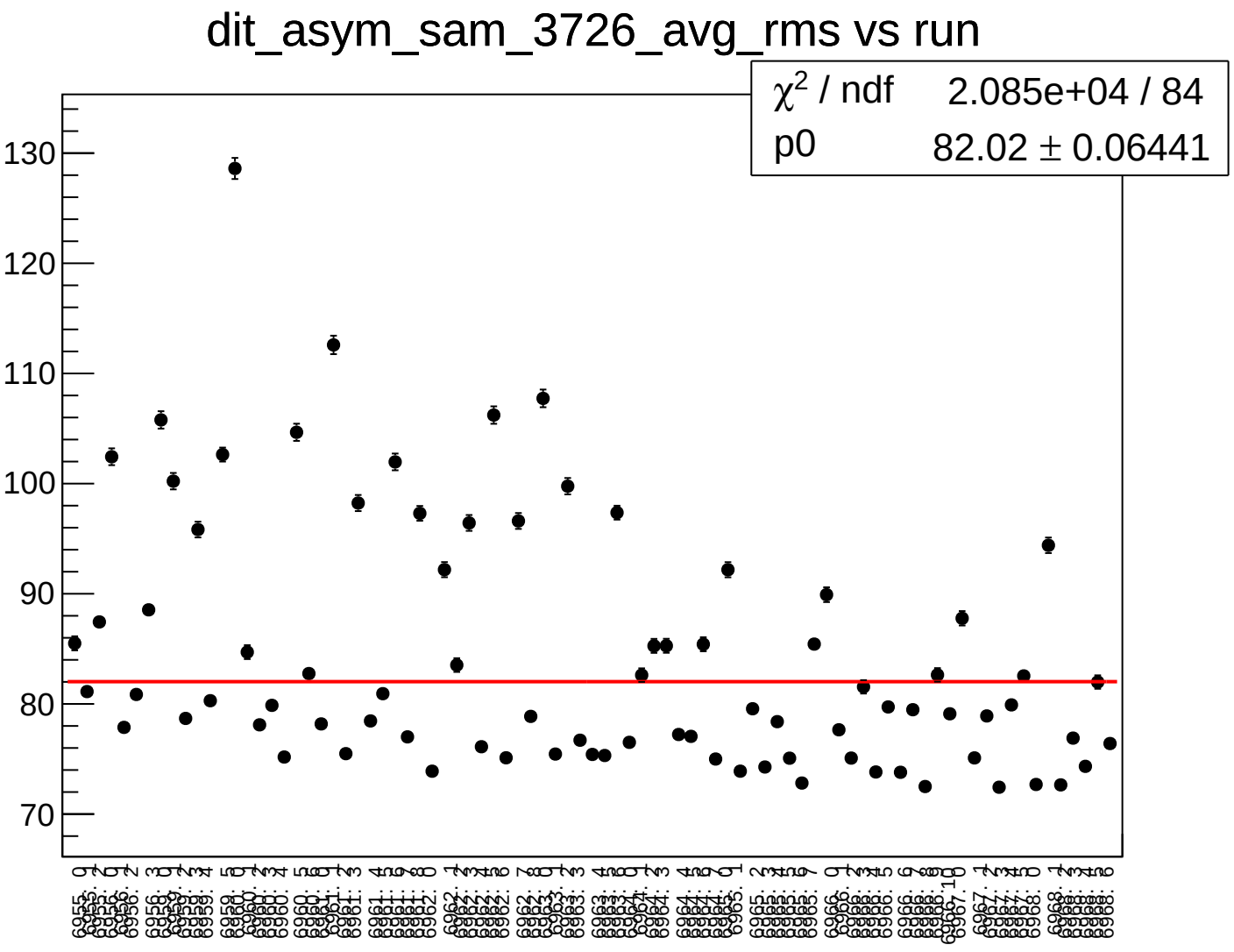

eigen_cor_asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 1.277e+04 / 84
p0 66.24 ± 0.05188
90
85
80
75
70
65
60
55

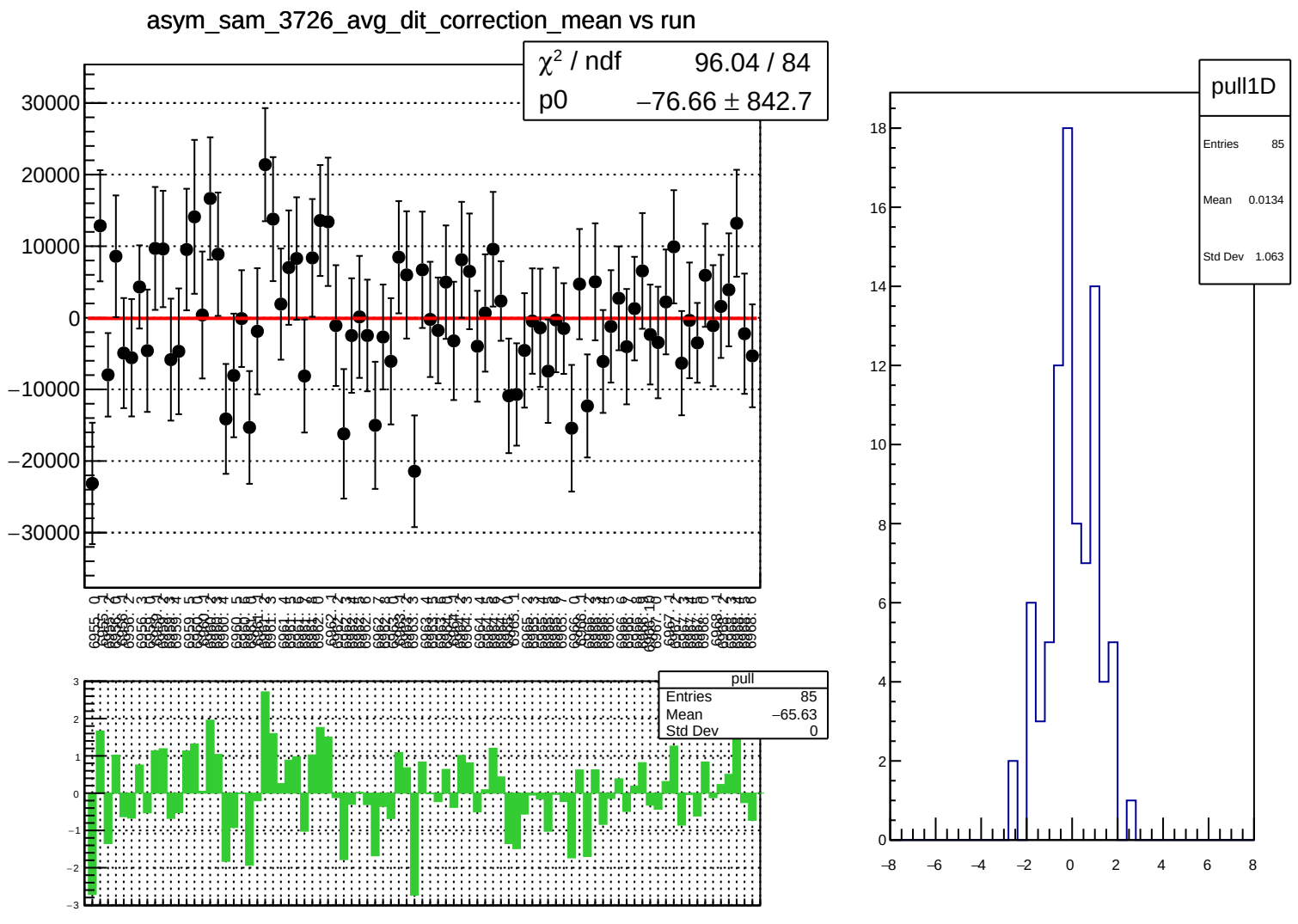

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.33 / 84
p0 −160.1± 862.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −65.24
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01399
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

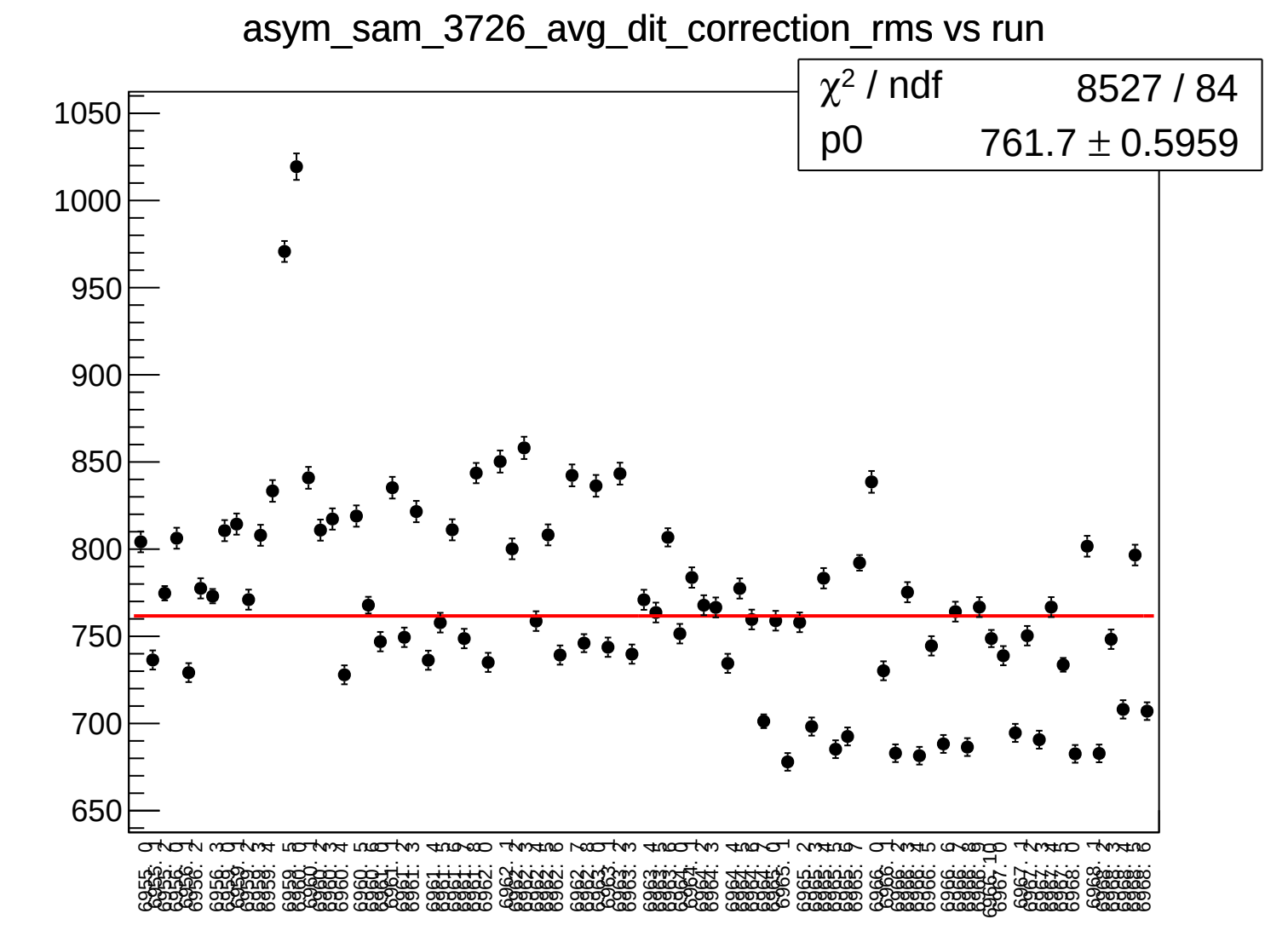

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.316e+04 / 84
p0 778.4 ± 0.6098
1100
1000
900
800
700

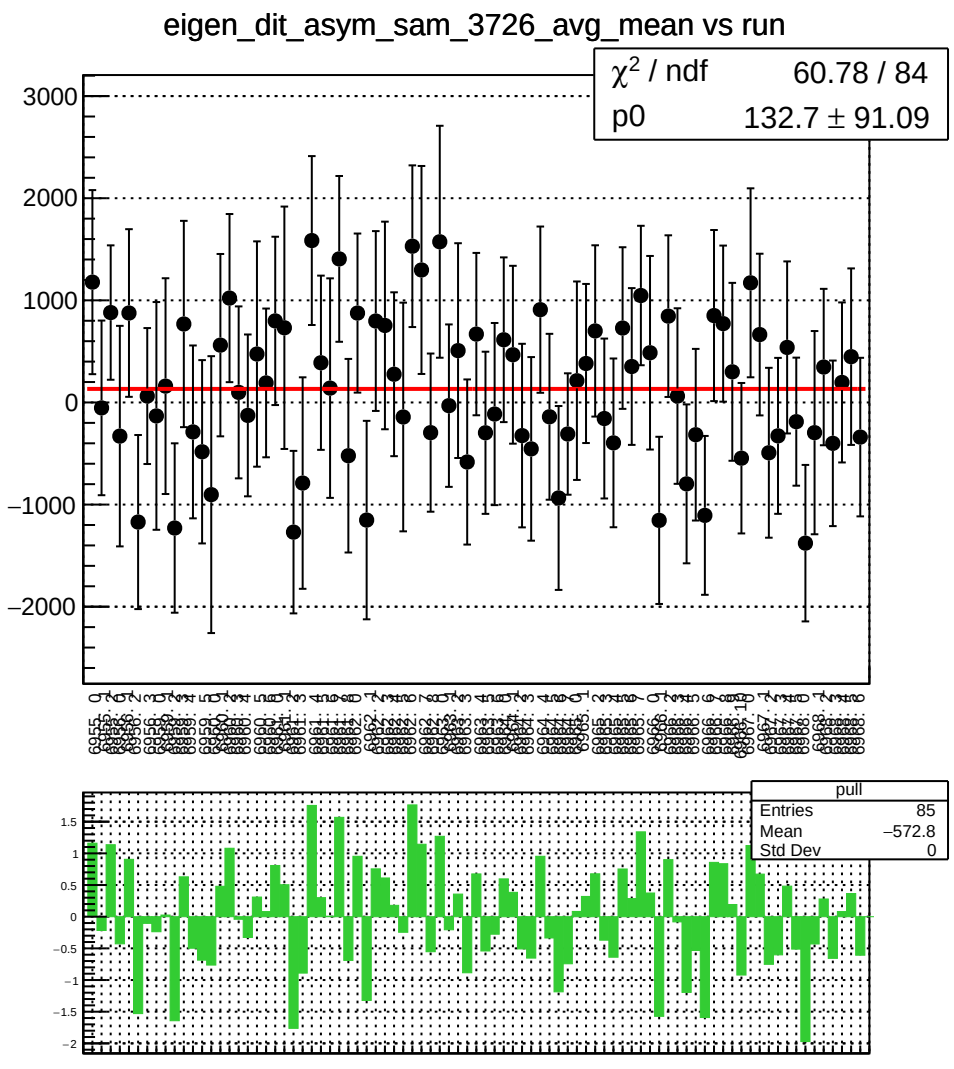

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 60.78 / 84
p0 132.7 ± 91.09
pull
Entries 85
Mean −572.8
Std Dev 0

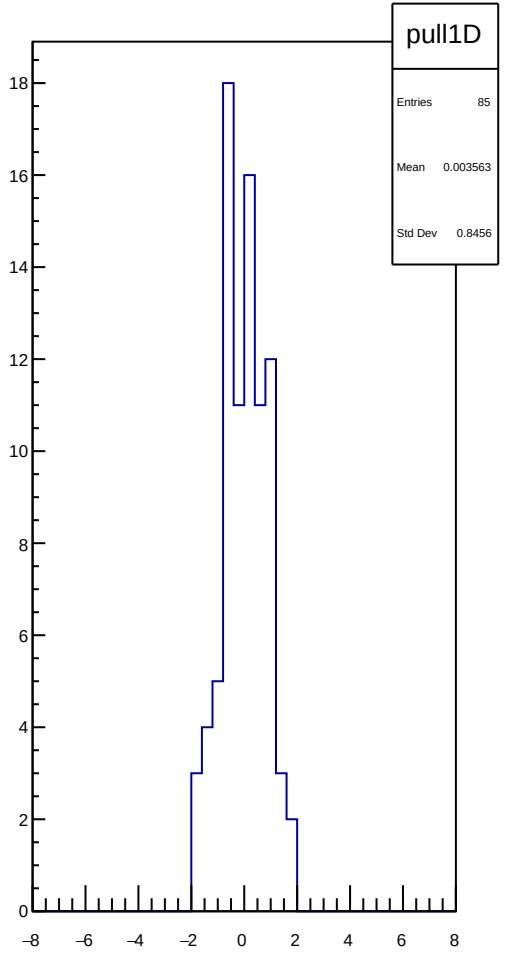

pull1D
Entries 85
Mean 0.003563
Std Dev 0.8456

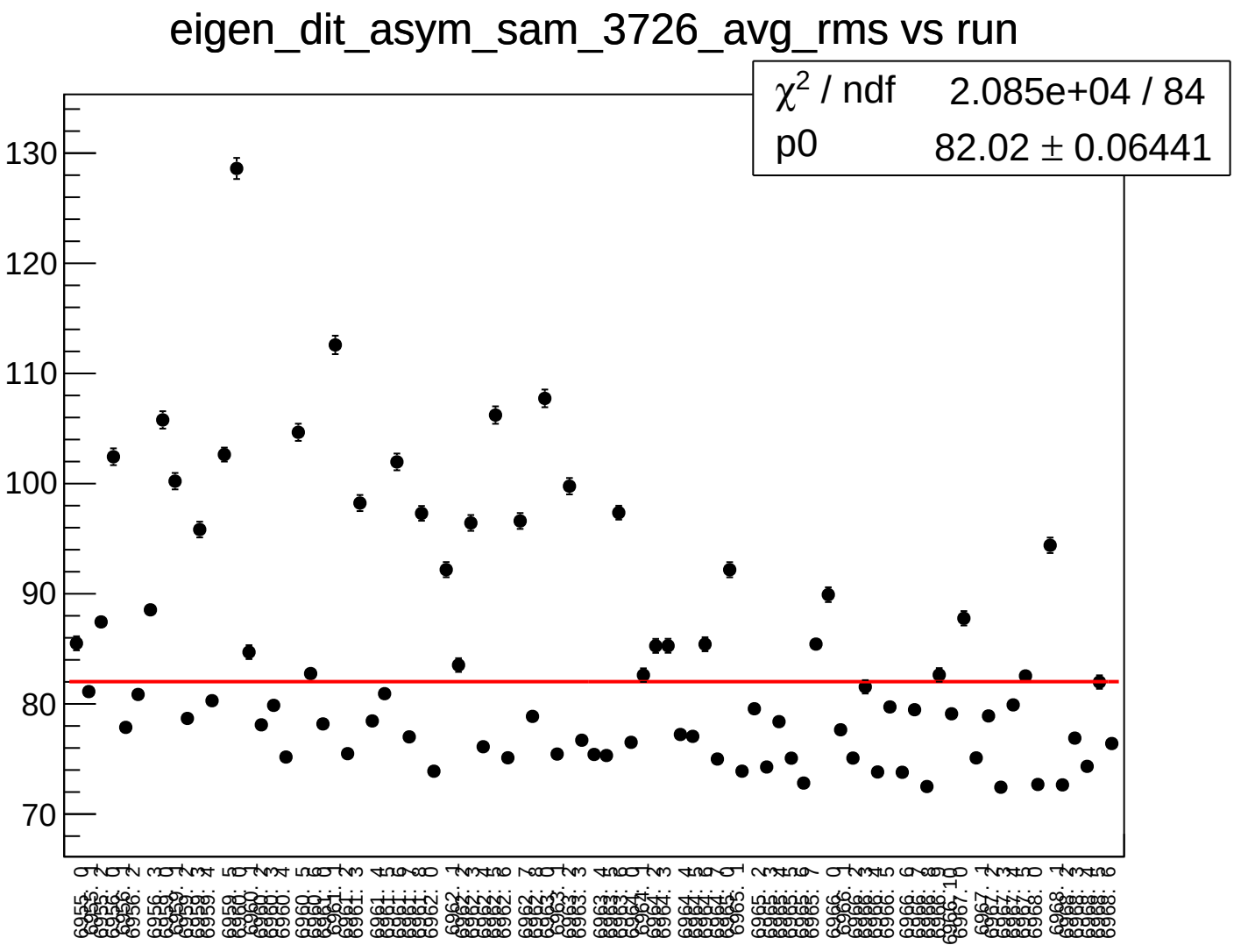

dit_asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 2.085e+04 / 84
p0 82.02 ± 0.06441
130
120
110
100
90
80
70

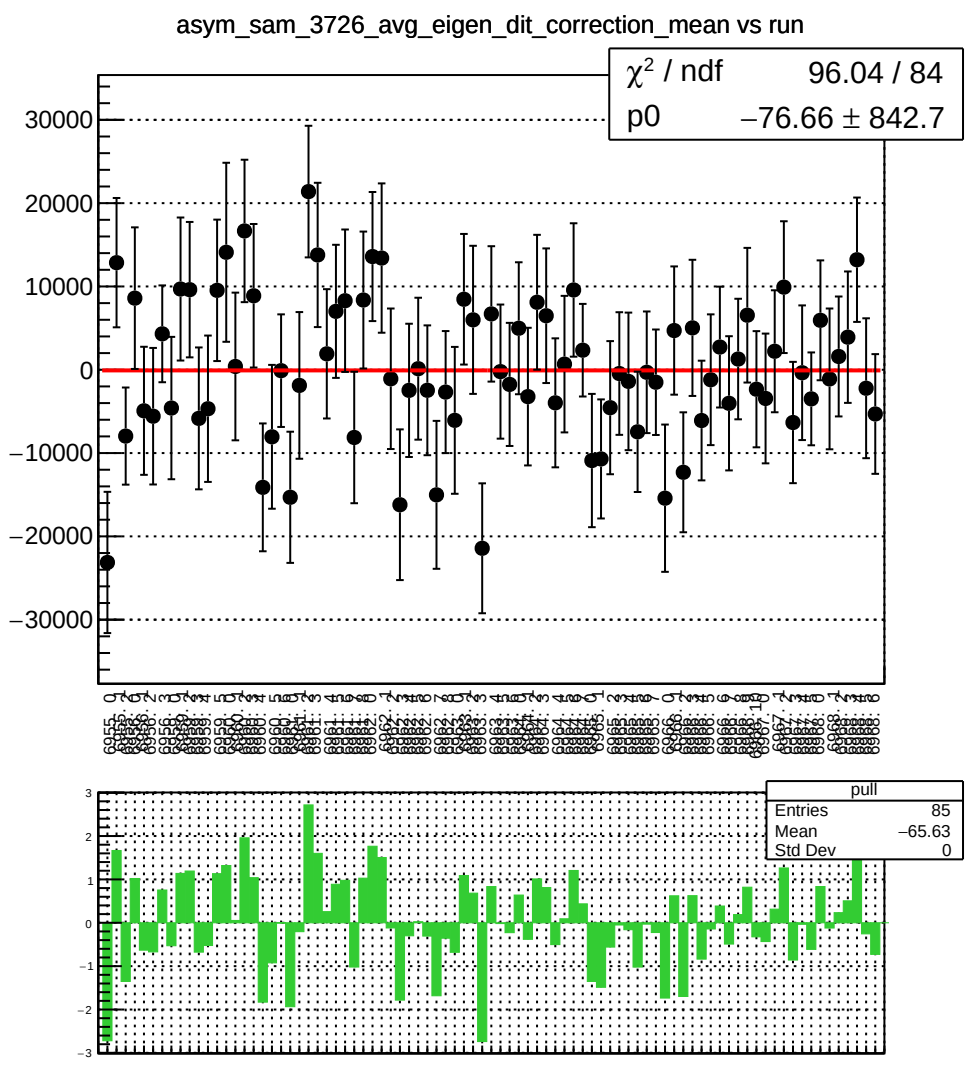

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 96.04 / 84
p0 −76.66 ± 842.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −65.63
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.0134
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

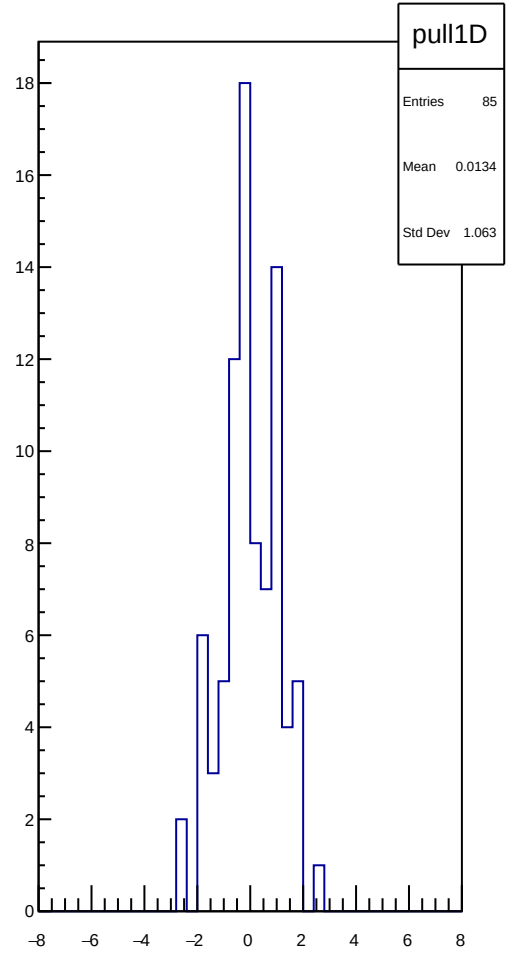

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 8527 / 84
p0 761.7 ± 0.5959
1050
1000
950
900
850
800
750
700
650

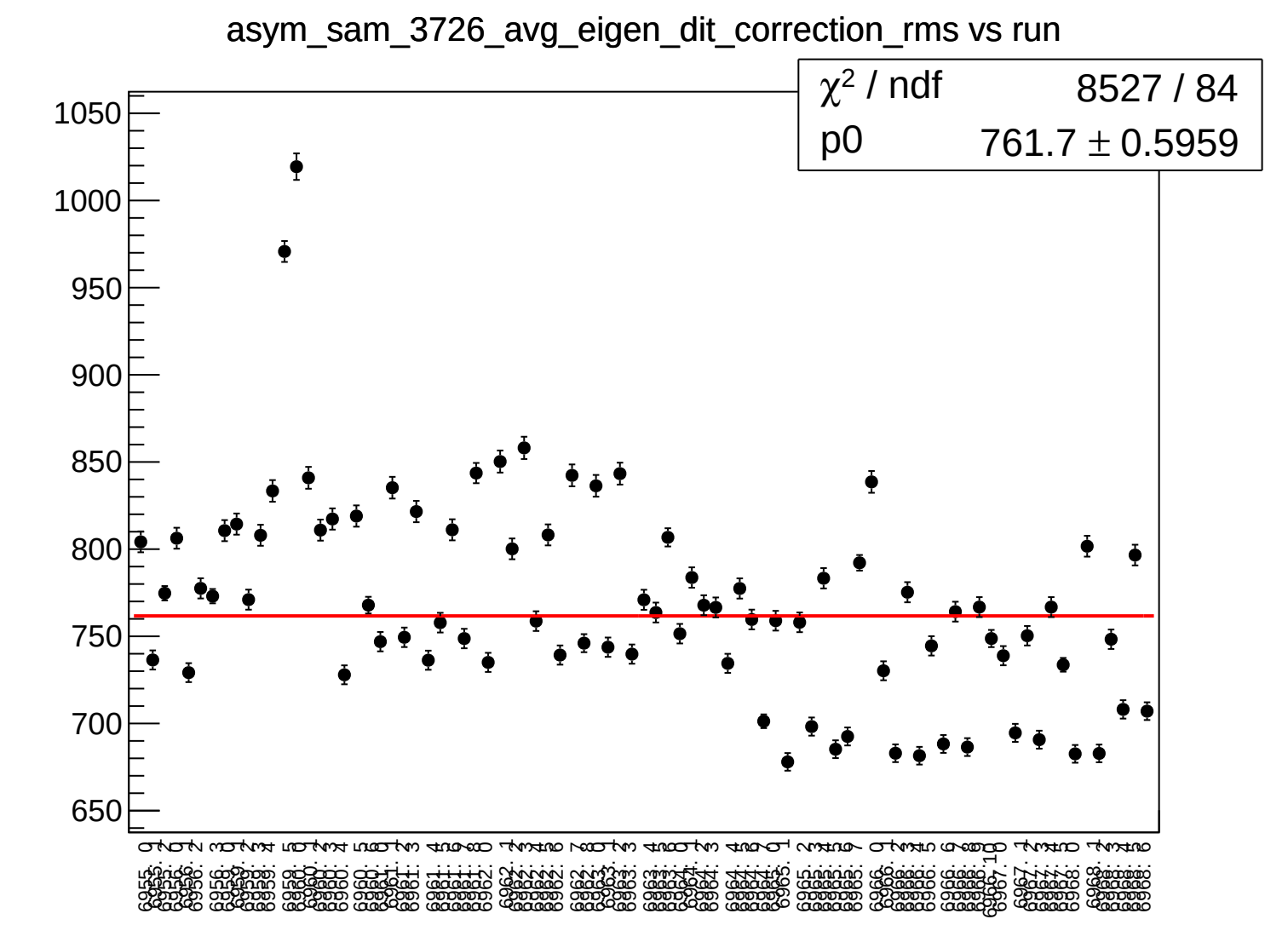

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 60.78 / 84
p0 132.7 ± 91.09
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −572.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

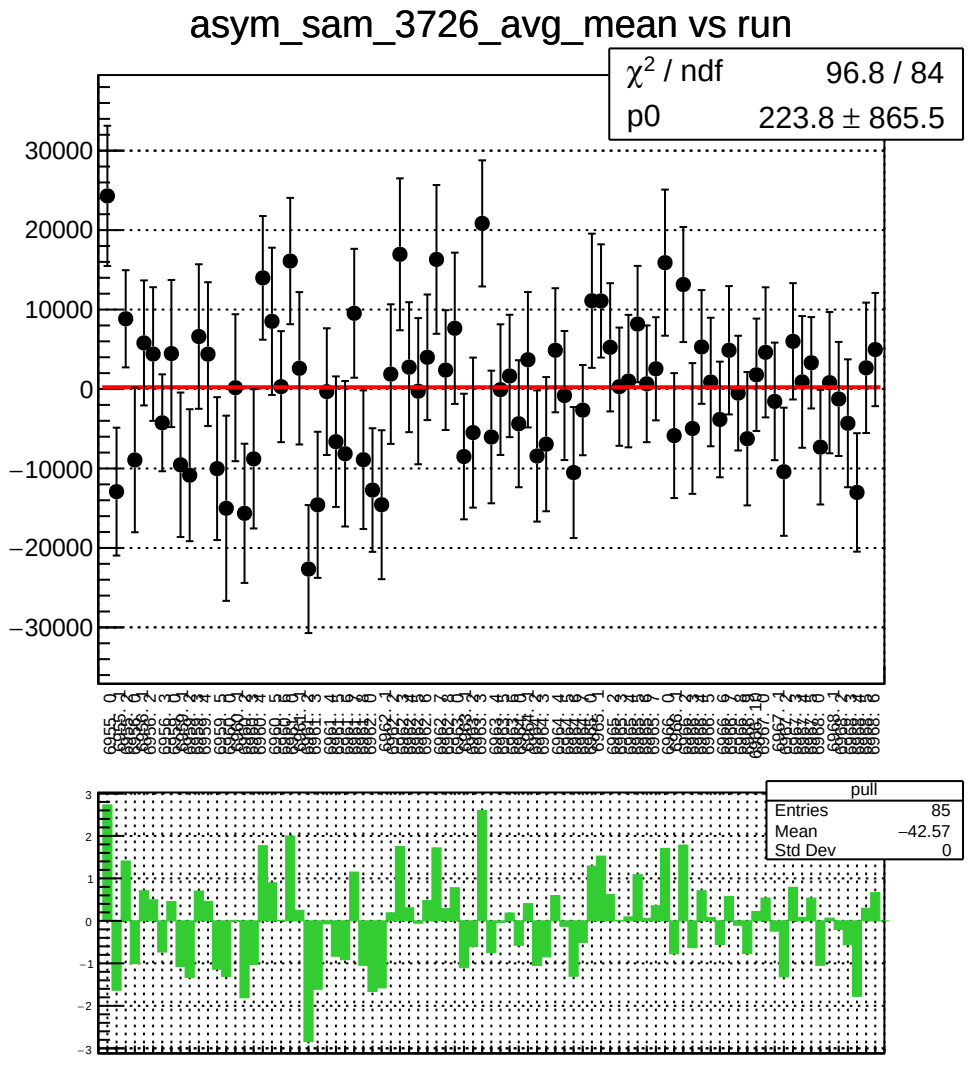

pull1D
Entries 85
Mean 0.003563
Std Dev 0.8456
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

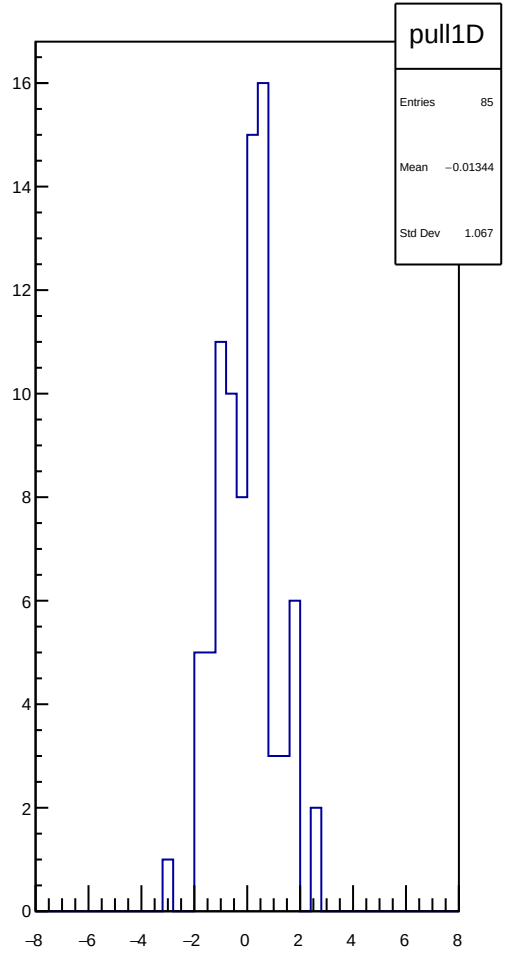

eigen_dit_asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 2.085e+04 / 84
p0 82.02 ± 0.06441
130
120
110
100
90
80
70

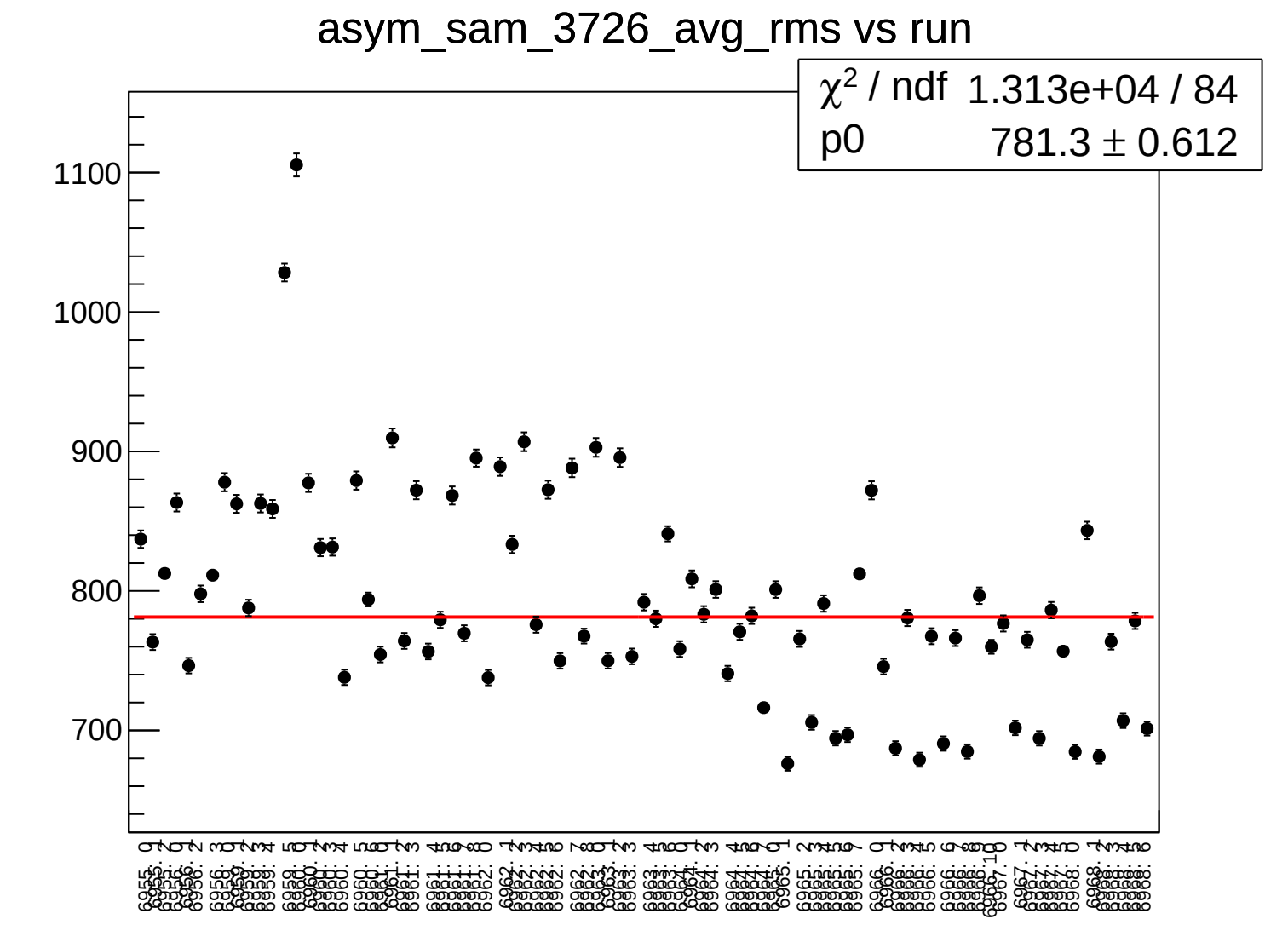

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.04 / 84
p0 −76.66 ± 842.7
pull
Entries 85
Mean −65.63
Std Dev 0

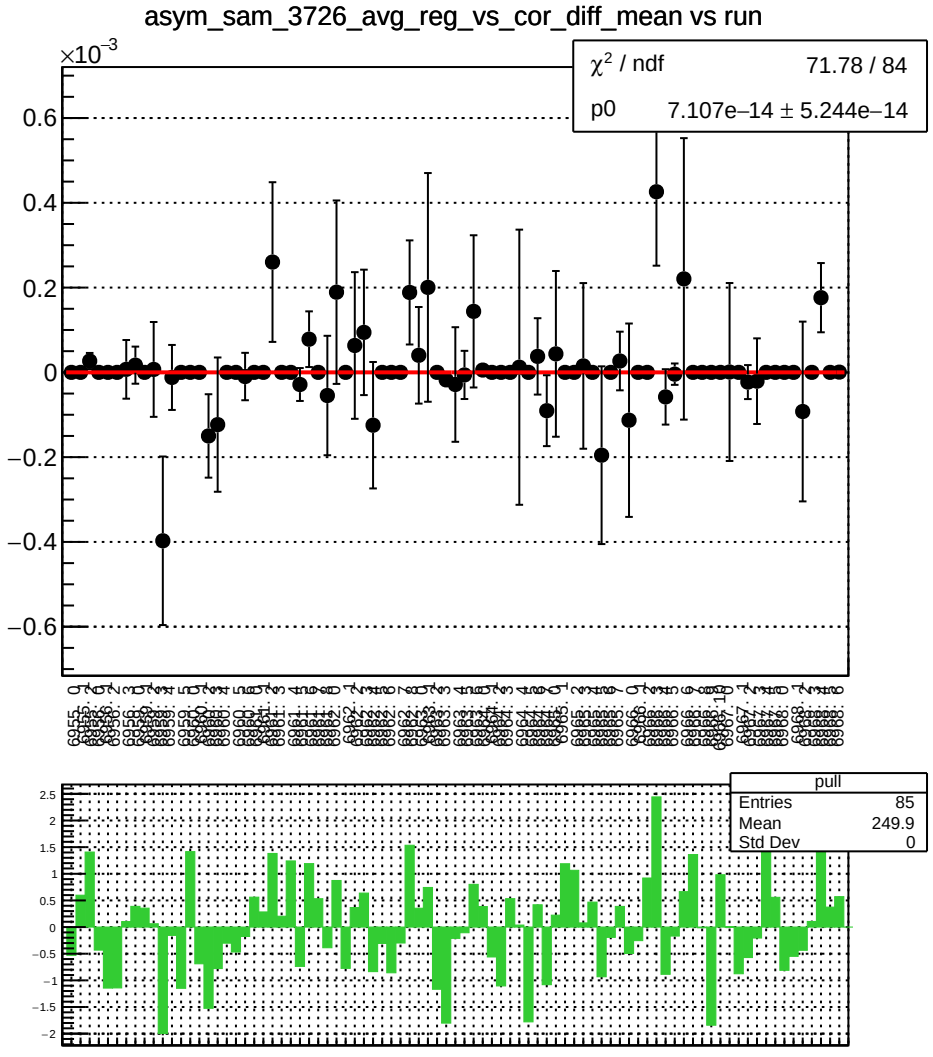

pull1D
Entries 85
Mean 0.0134
Std Dev 1.063

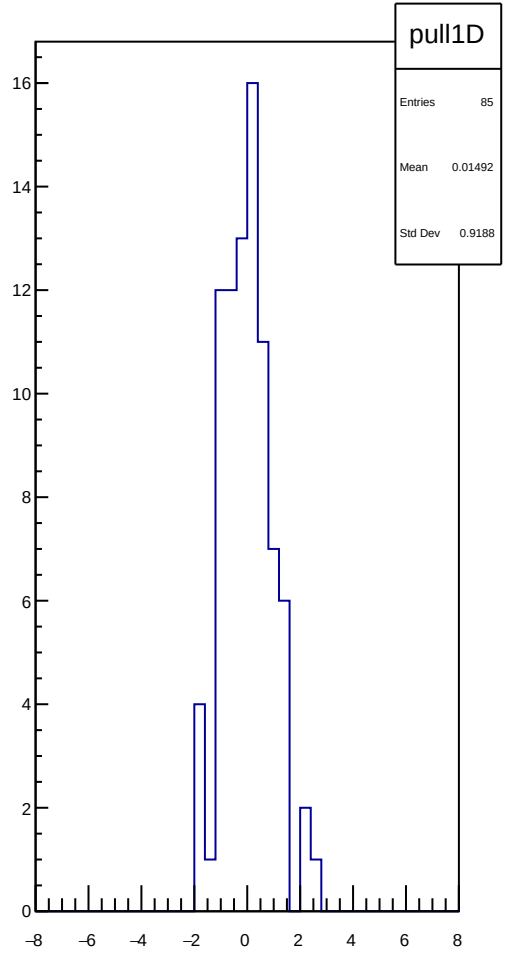

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 8527 / 84
p0 761.7 ± 0.5959
1050
1000
950
900
850
800
750
700
650

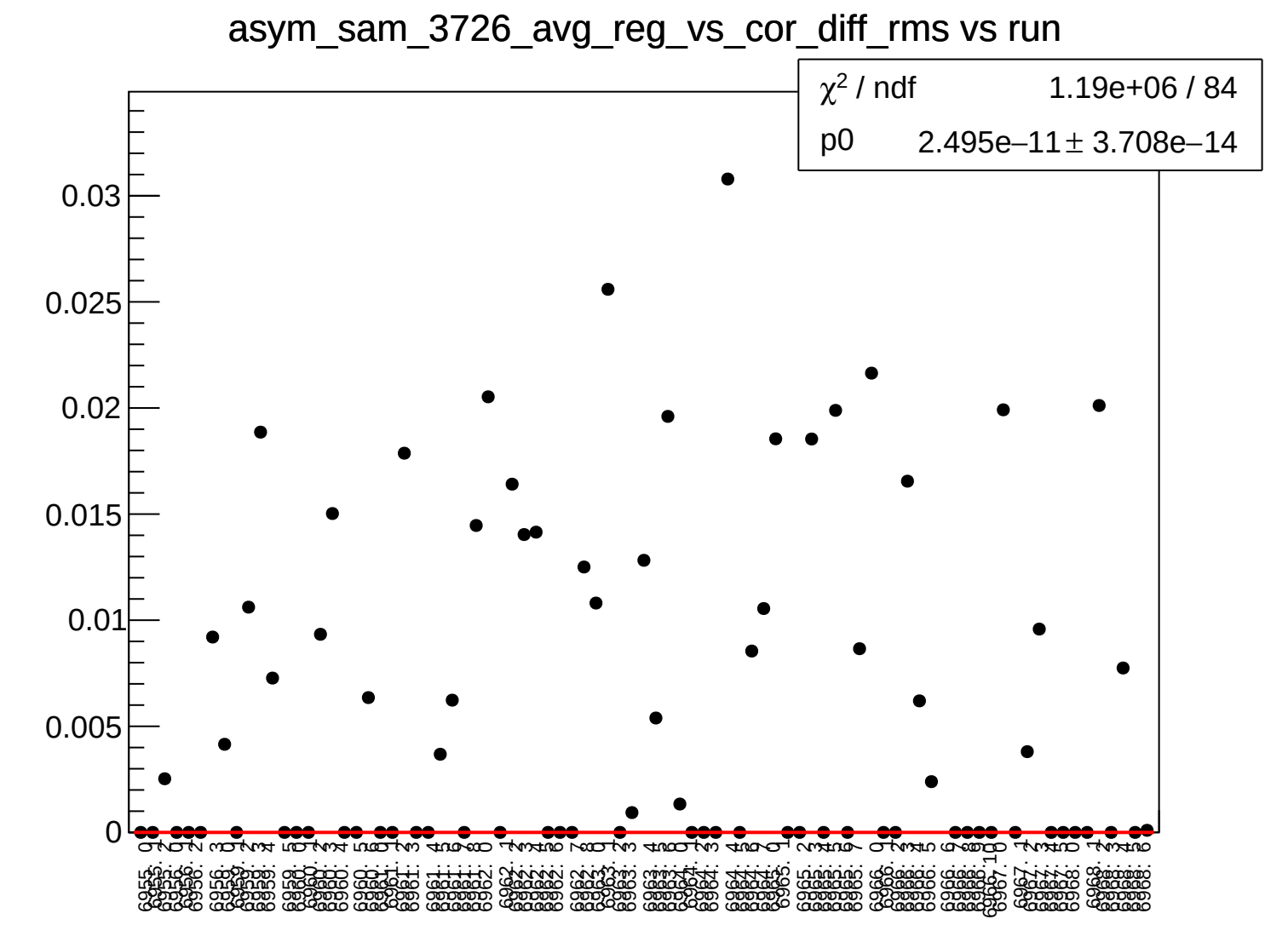

asym_sam_3726_avg_mean vs run
$\chi^2$ / ndf 96.8 / 84
p0 223.8 ± 865.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −42.57
Std Dev 0
3
2
1
0
−1
−2
−3

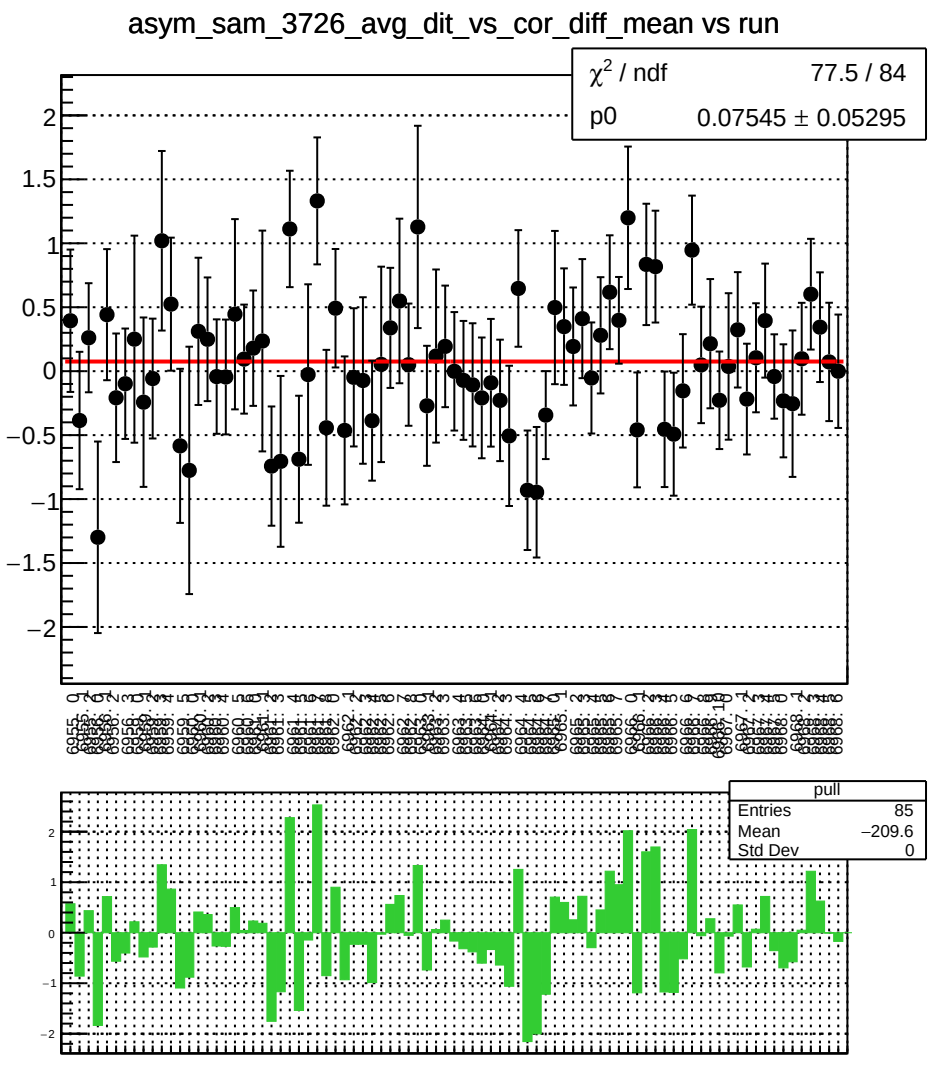

pull1D
Entries 85
Mean −0.01344
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

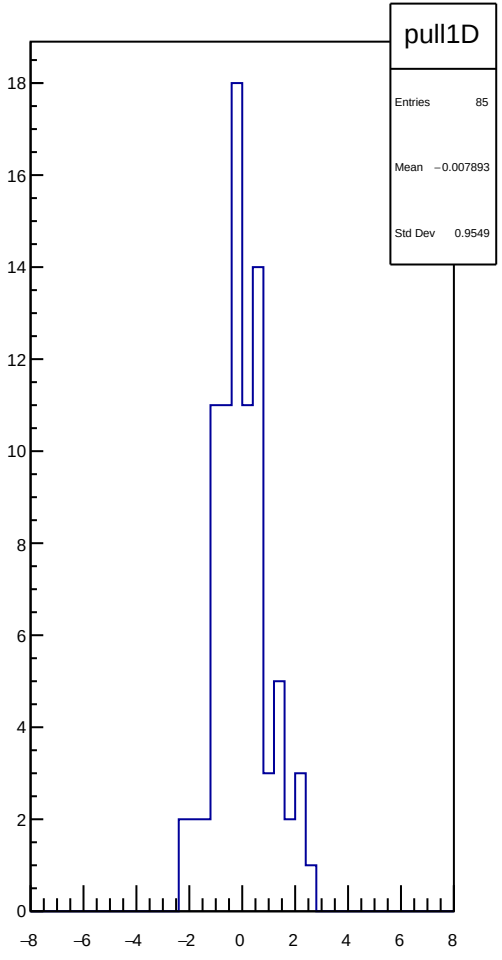

asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 1.313e+04 / 84
p0 781.3 ± 0.612
1100
1000
900
800
700

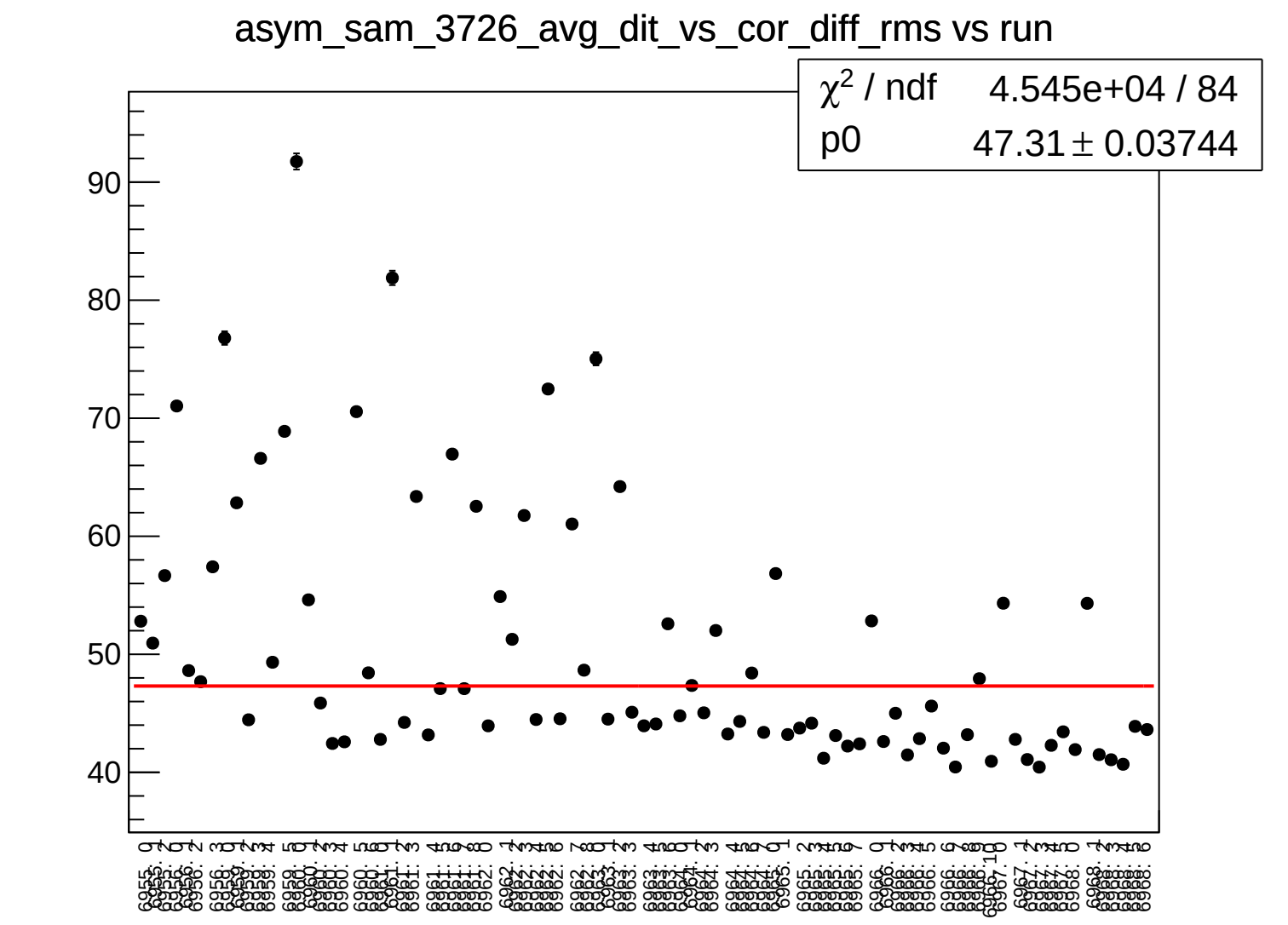

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 71.78 / 84
p0 7.107e−14 ± 5.244e−14
pull
Entries 85
Mean 249.9
Std Dev 0


pull1D
Entries 85
Mean 0.01492
Std Dev 0.9188

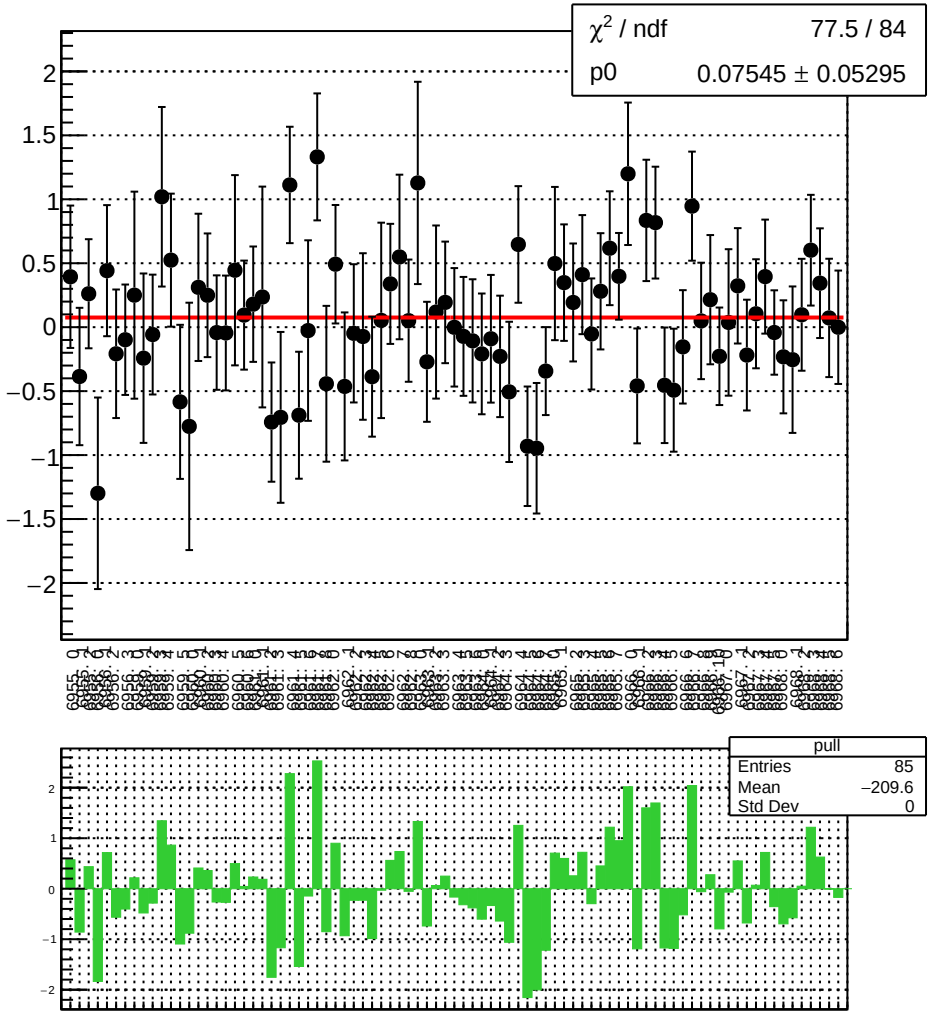

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.19e+06 / 84
p0 2.495e−11 ± 3.708e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

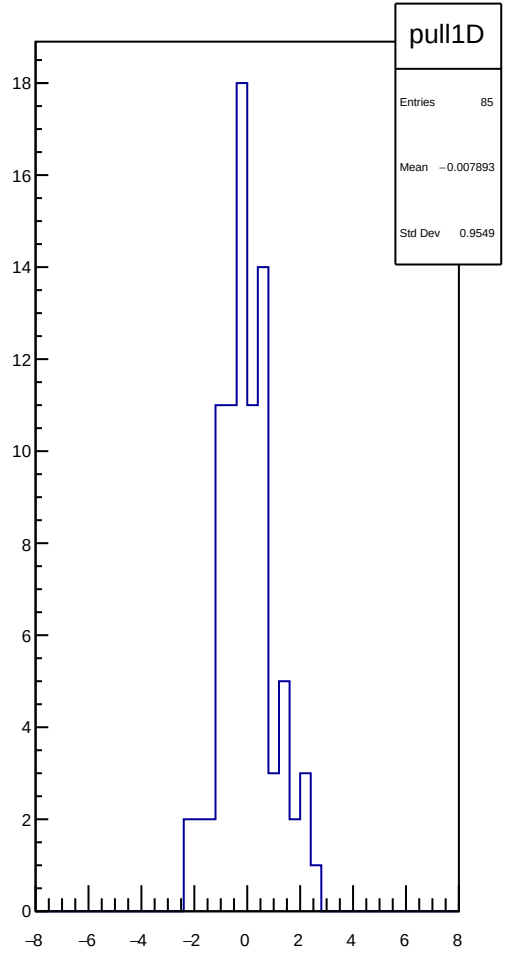

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.5 / 84
p0 0.07545 ± 0.05295
pull
Entries 85
Mean −209.6
Std Dev 0

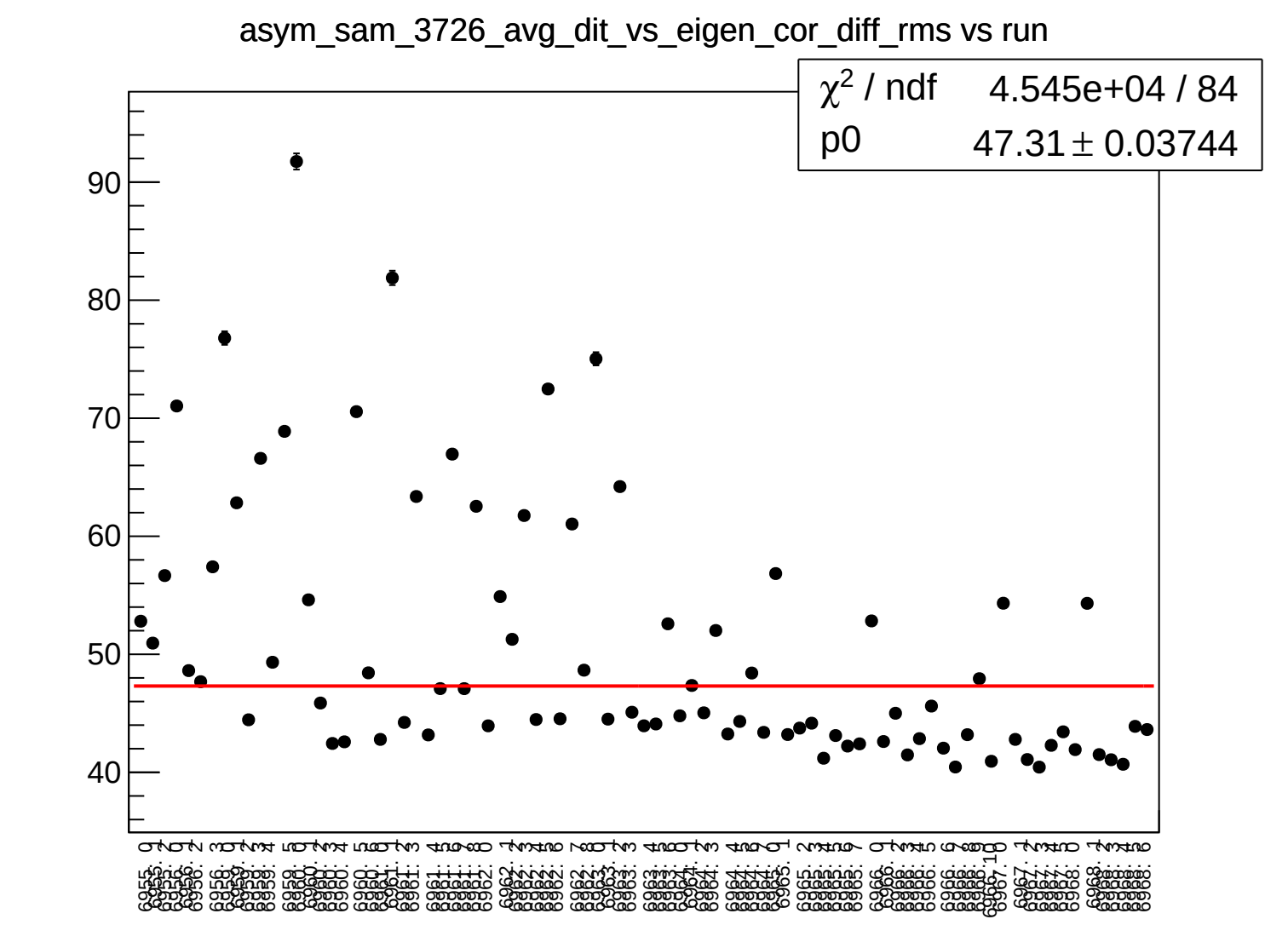

pull1D
Entries 85
Mean −0.007893
Std Dev 0.9549

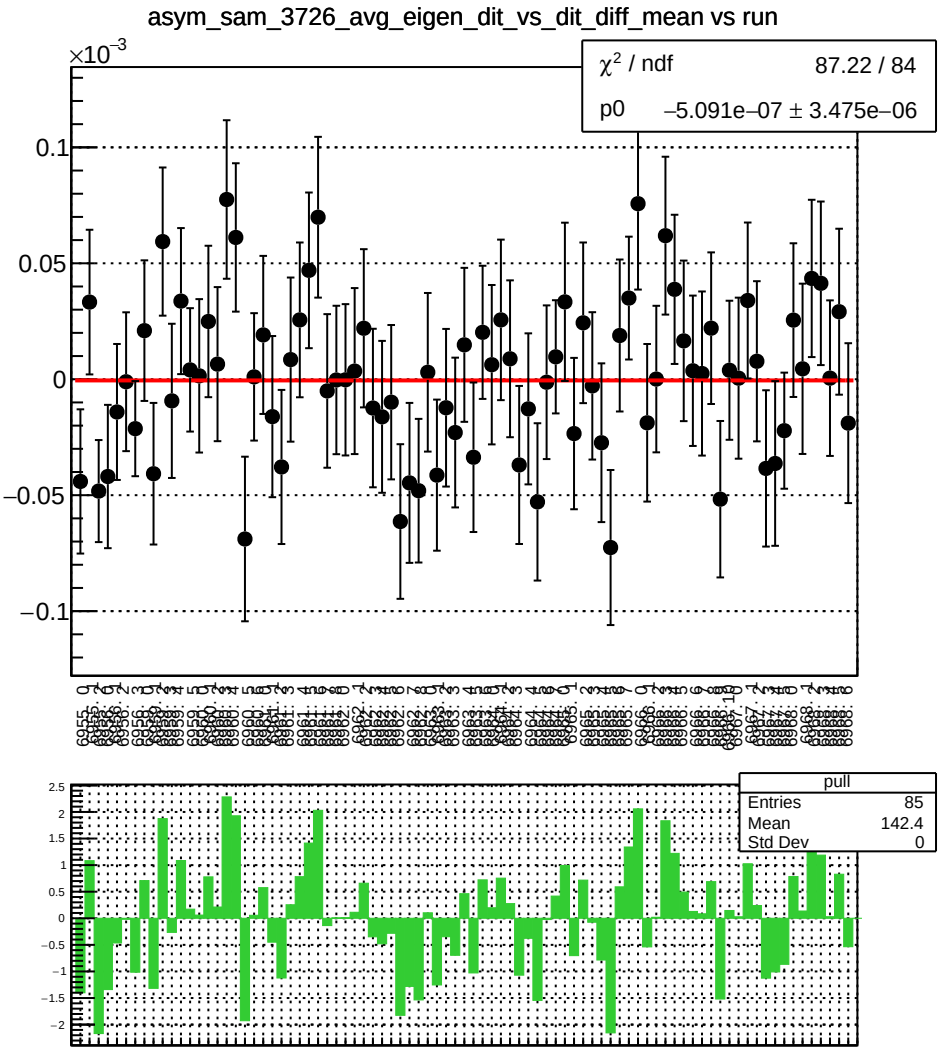

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.545e+04 / 84
p0 47.31 ± 0.03744
90
80
70
60
50
40

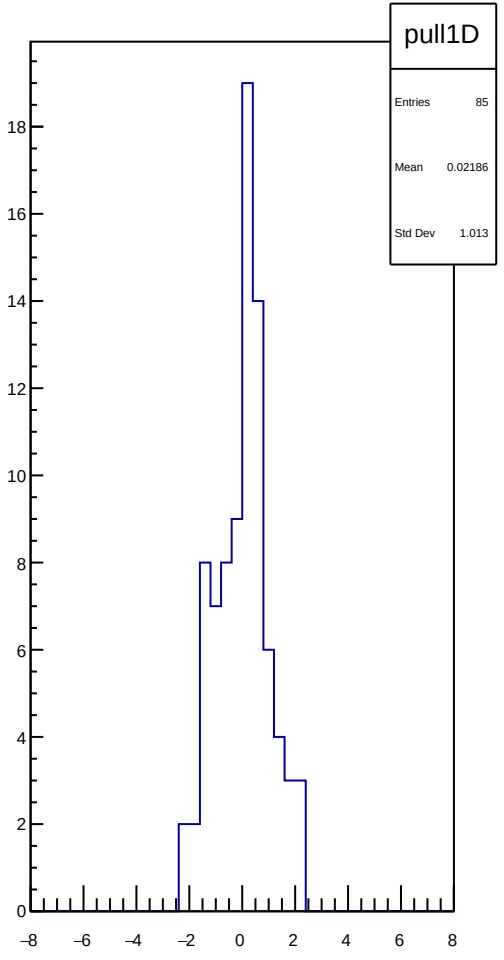
asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run

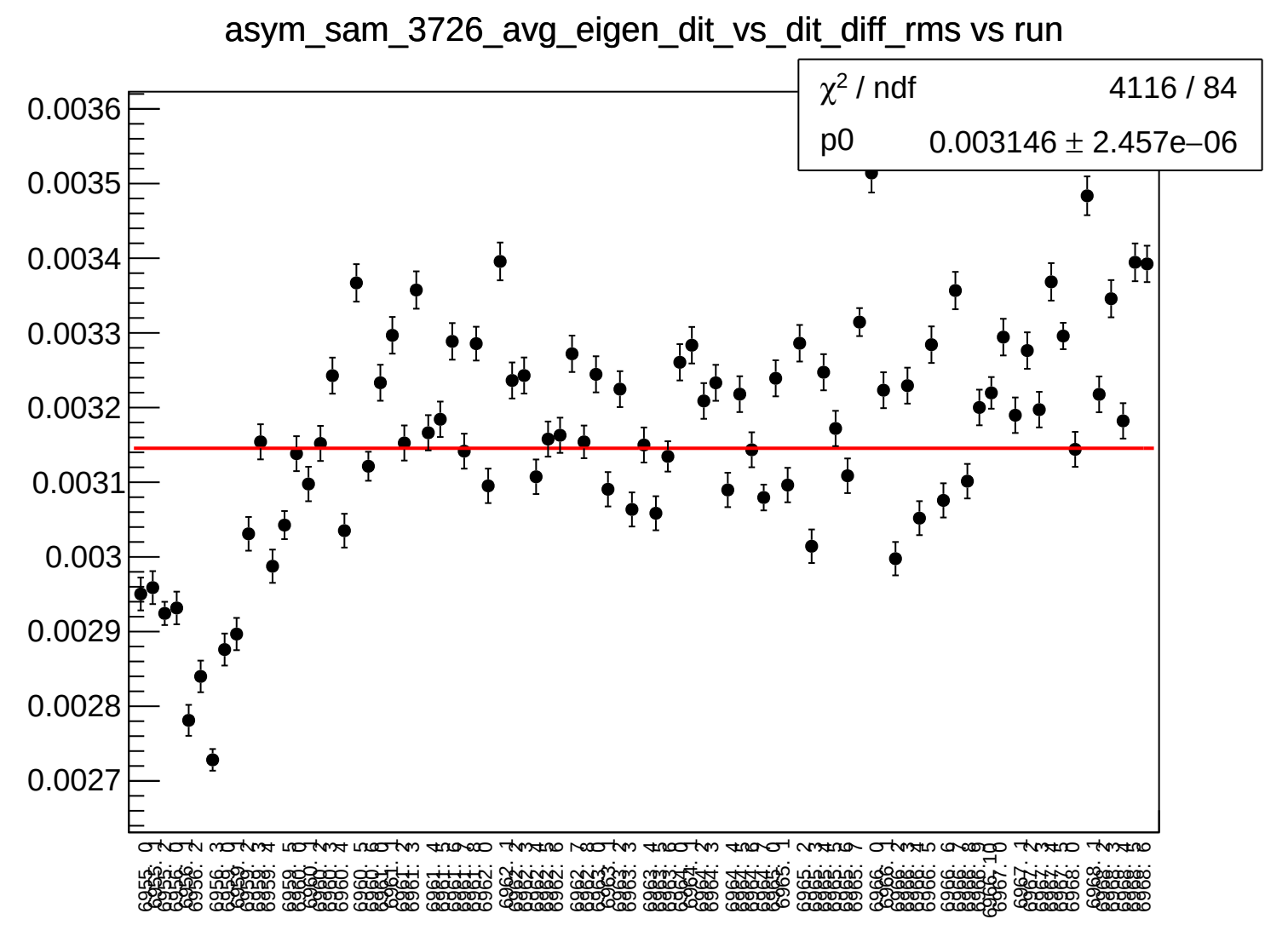


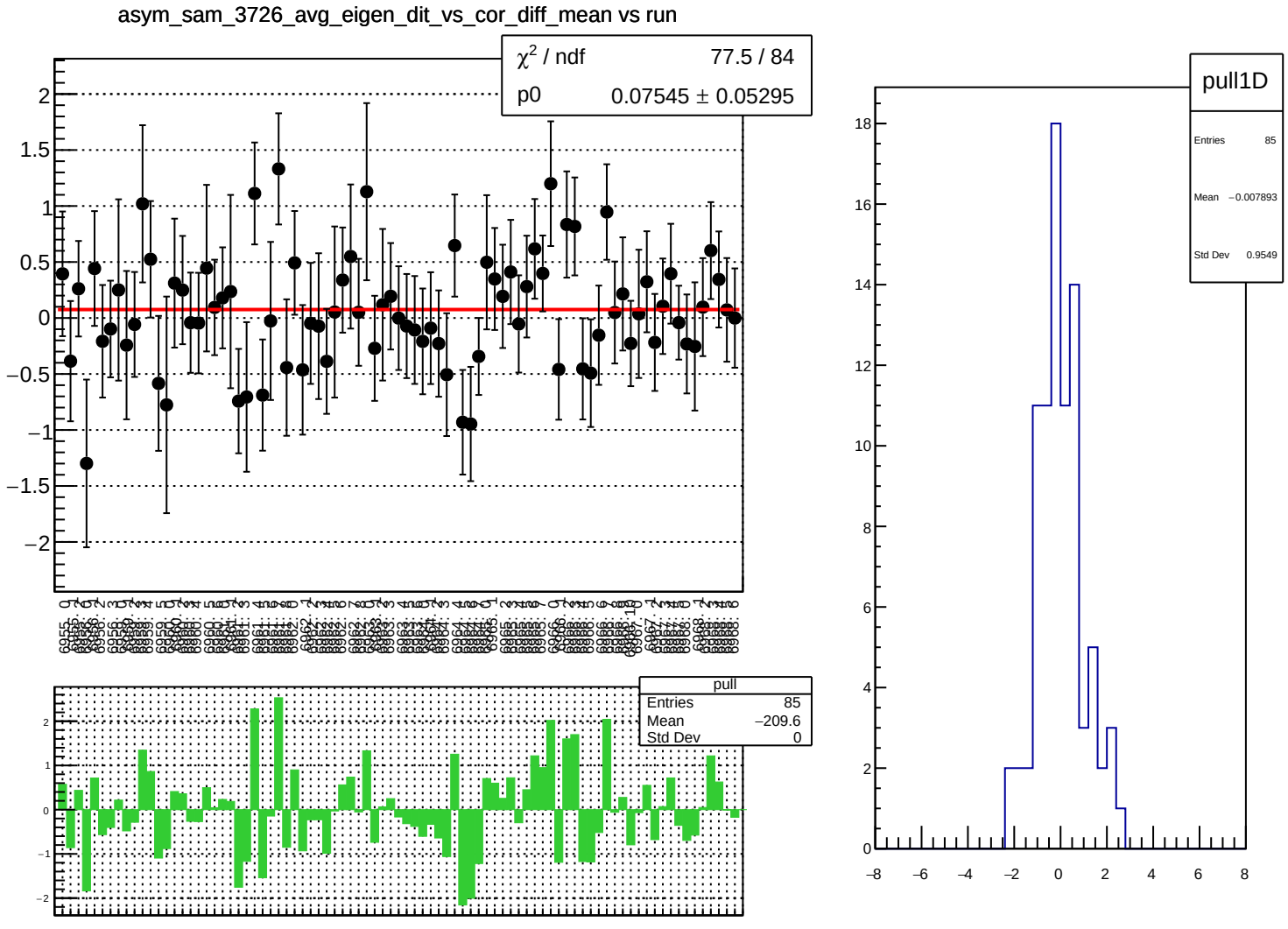



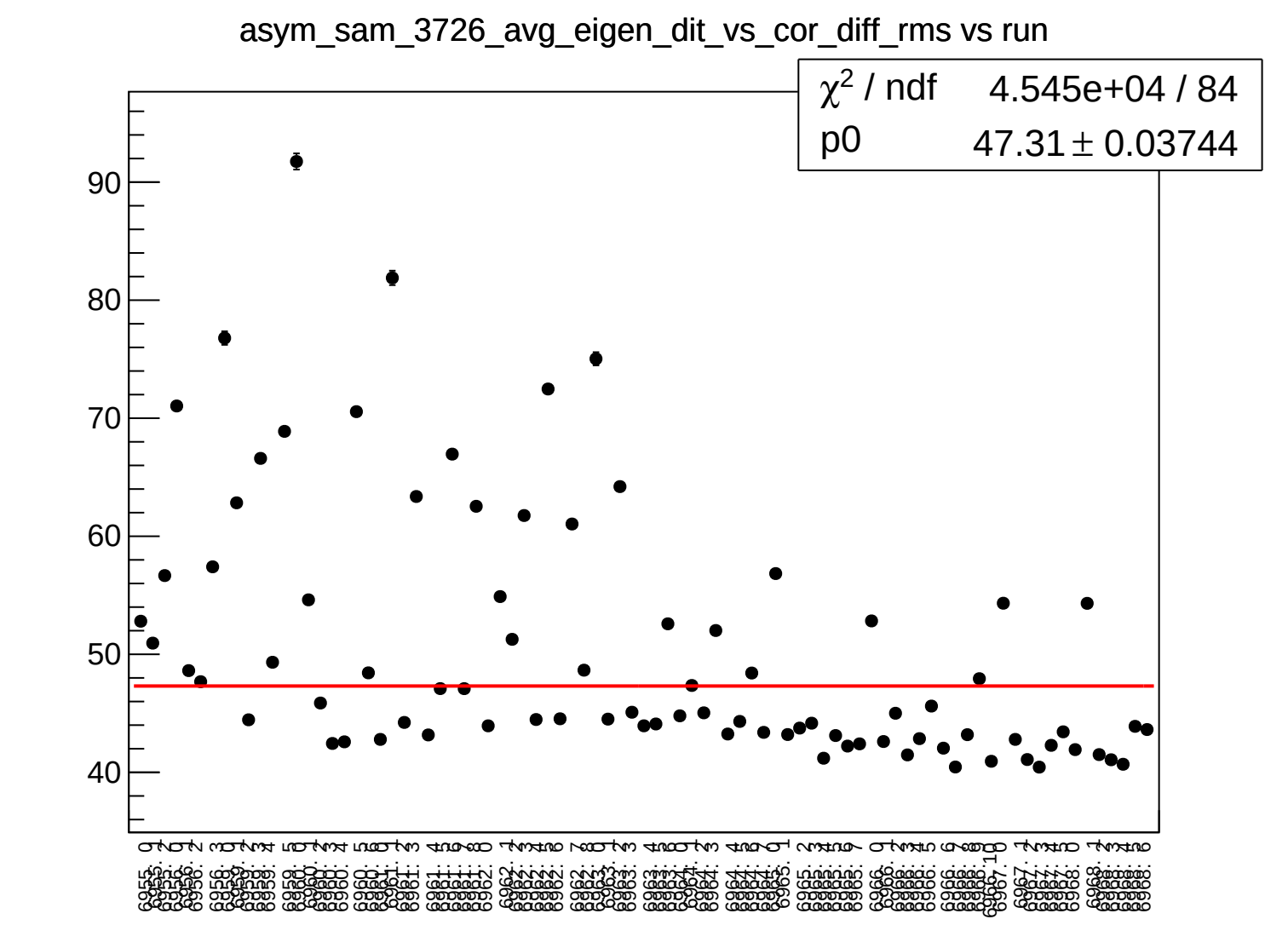

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 4.545e+04 / 84
p0 47.31 ± 0.03744
90
80
70
60
50
40

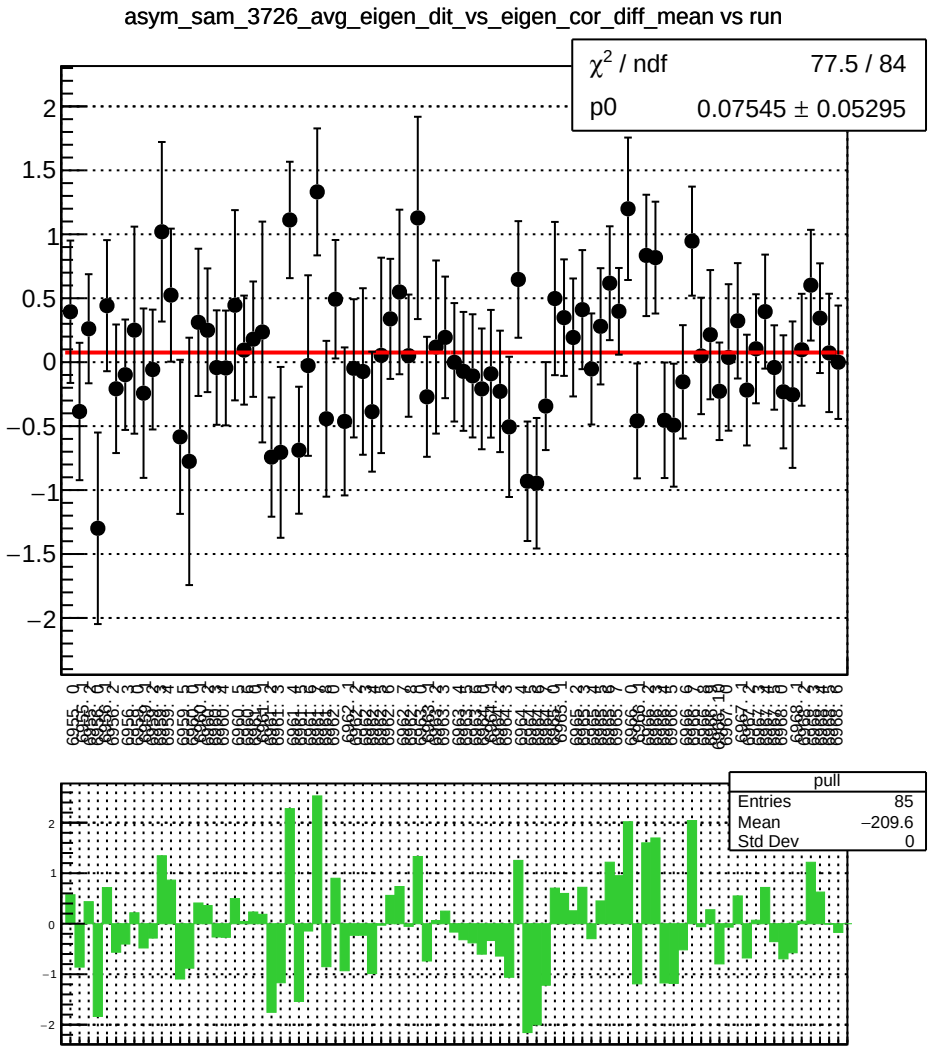

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.22 / 84
p0 −5.091e−07 ± 3.475e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 142.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

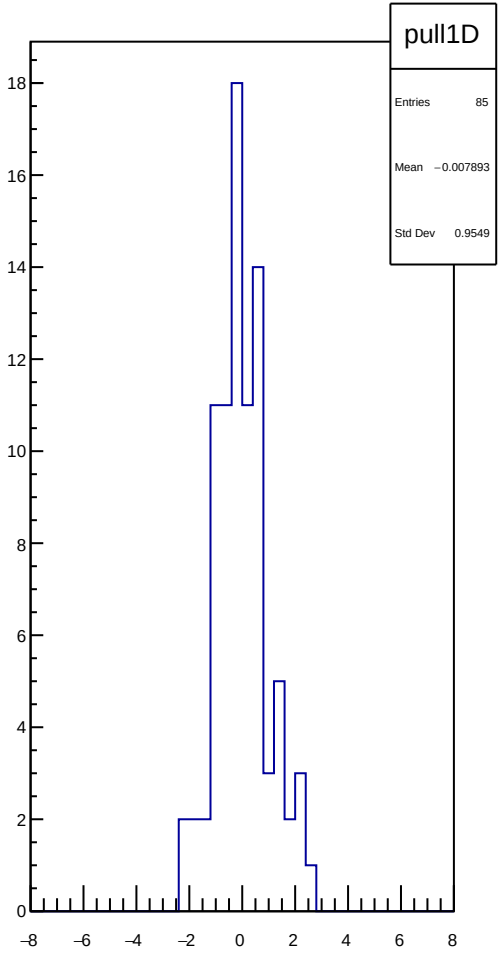

pull1D
Entries 85
Mean 0.02186
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

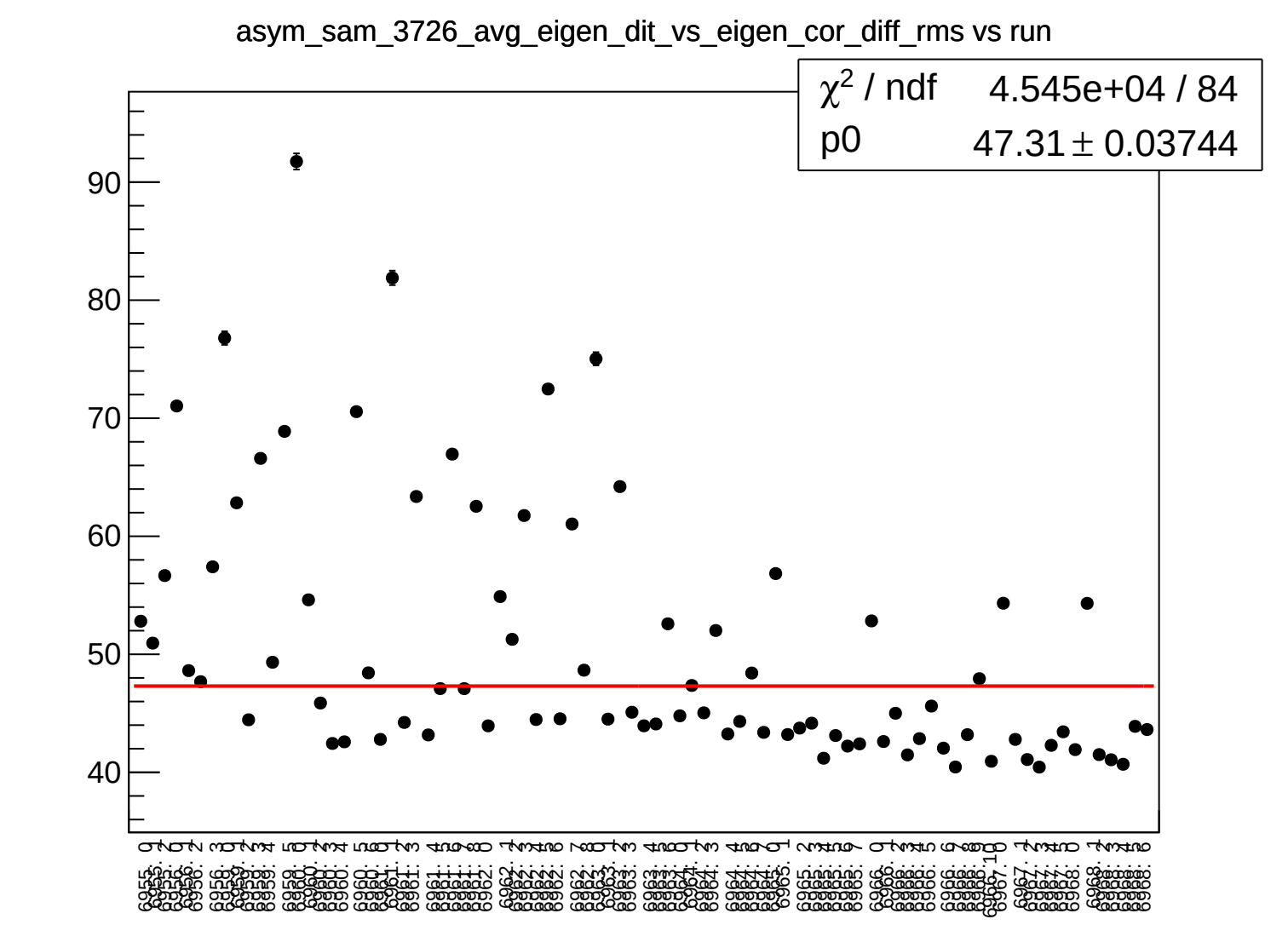

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4116 / 84
p0 0.003146 ± 2.457e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027

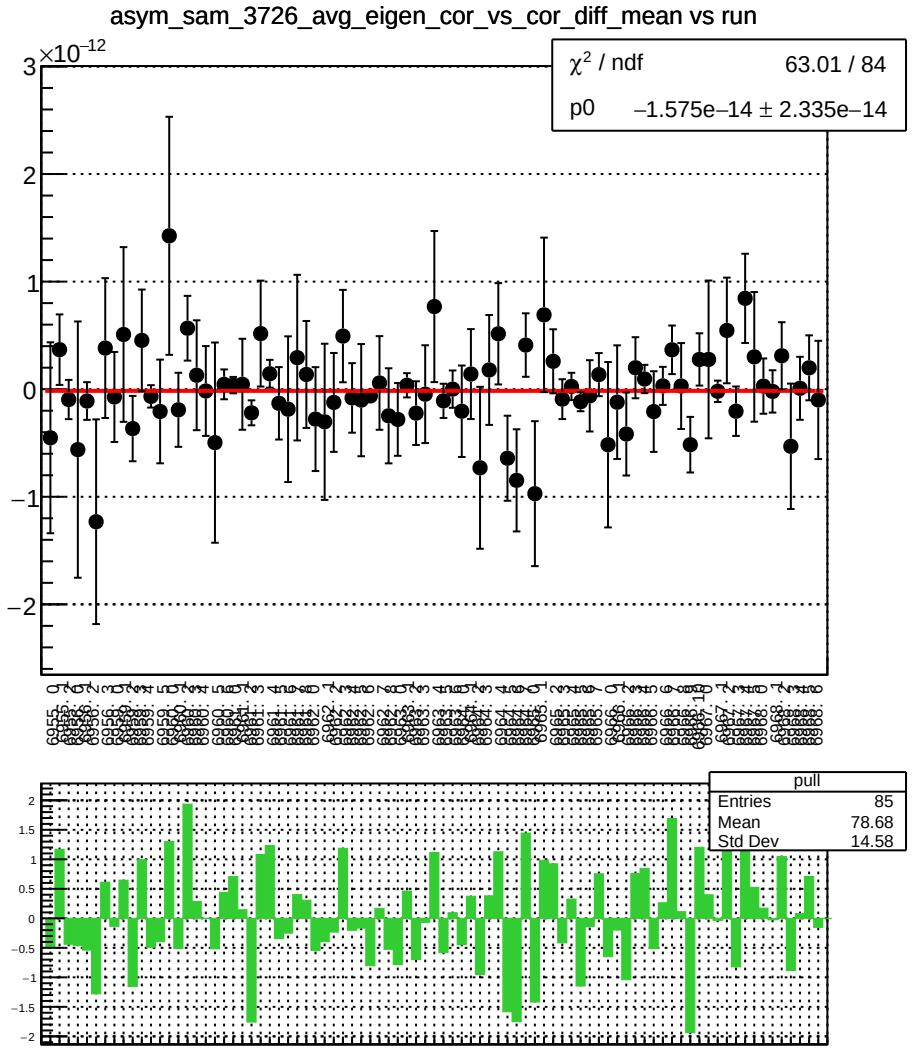

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.5 / 84
p0 0.07545 ± 0.05295
pull
Entries 85
Mean −209.6
Std Dev 0
pull1D
Entries 85
Mean −0.007893
Std Dev 0.9549

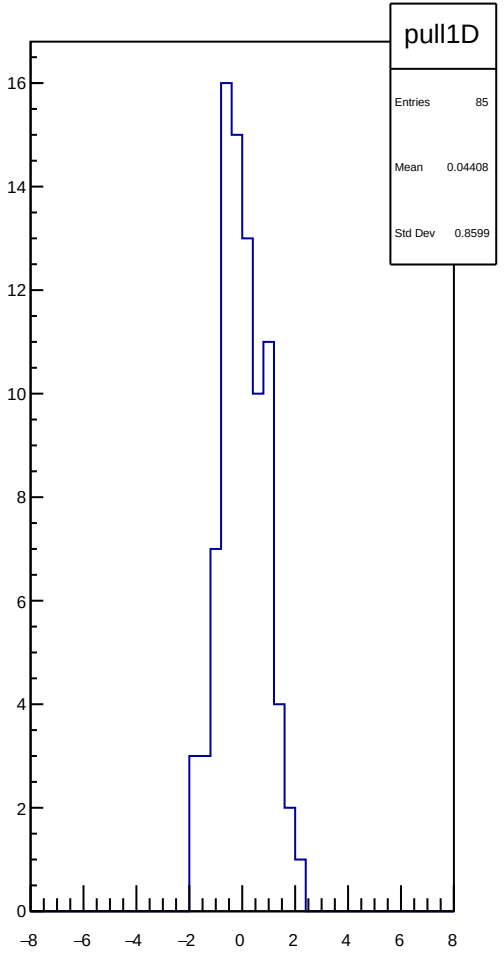

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.545e+04 / 84
p0 47.31 ± 0.03744
90
80
70
60
50
40

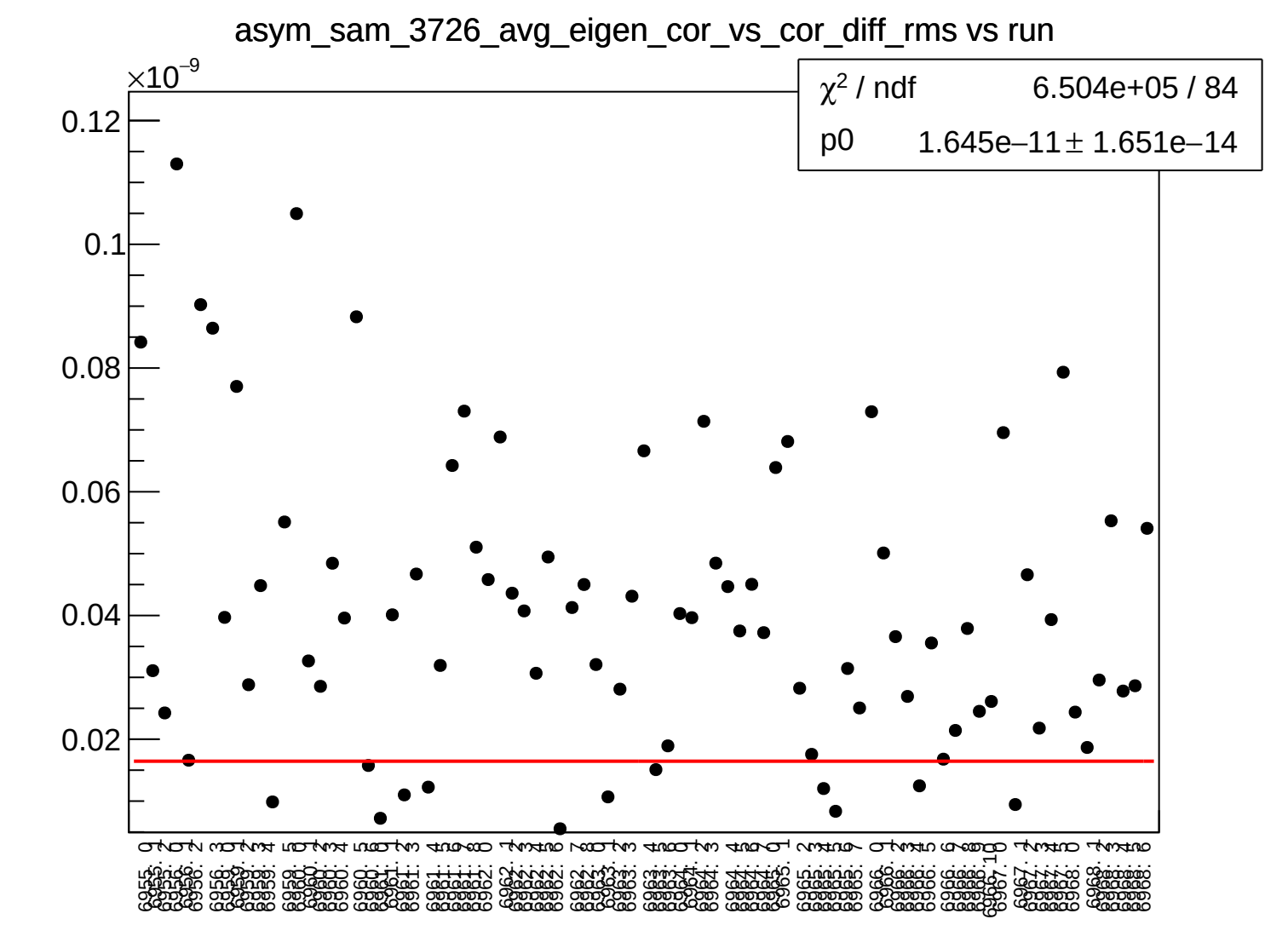

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.5 / 84
p0 0.07545 ± 0.05295
pull
Entries 85
Mean −209.6
Std Dev 0

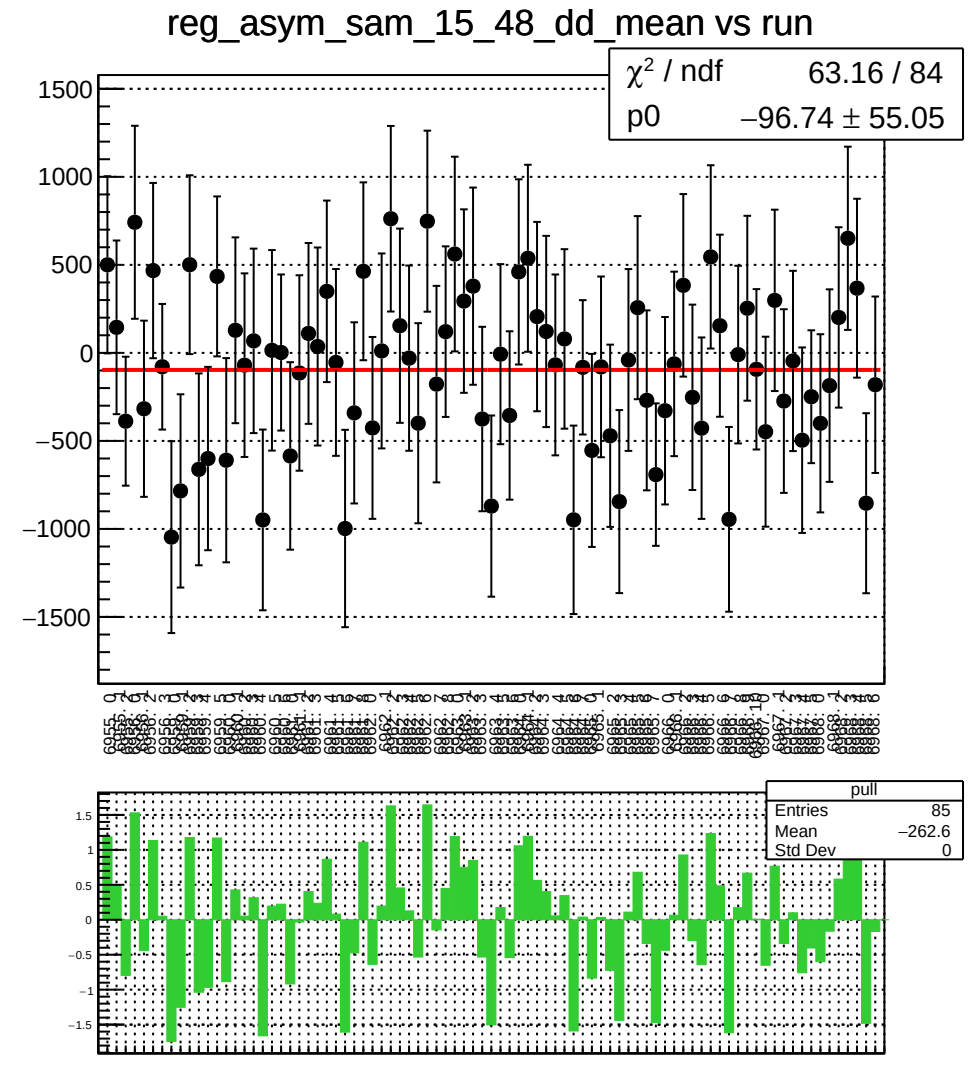

pull1D
Entries 85
Mean −0.007893
Std Dev 0.9549

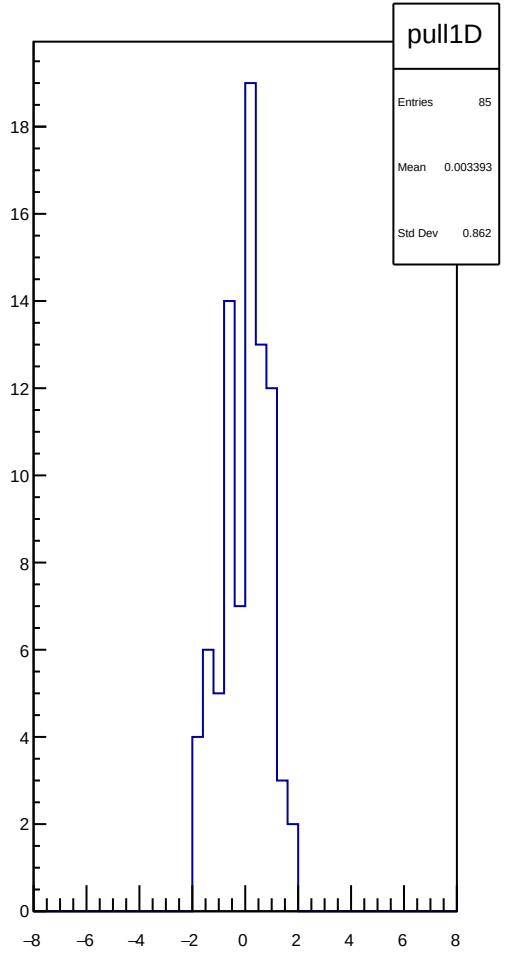

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 4.545e+04 / 84
p0 47.31 ± 0.03744
90
80
70
60
50
40

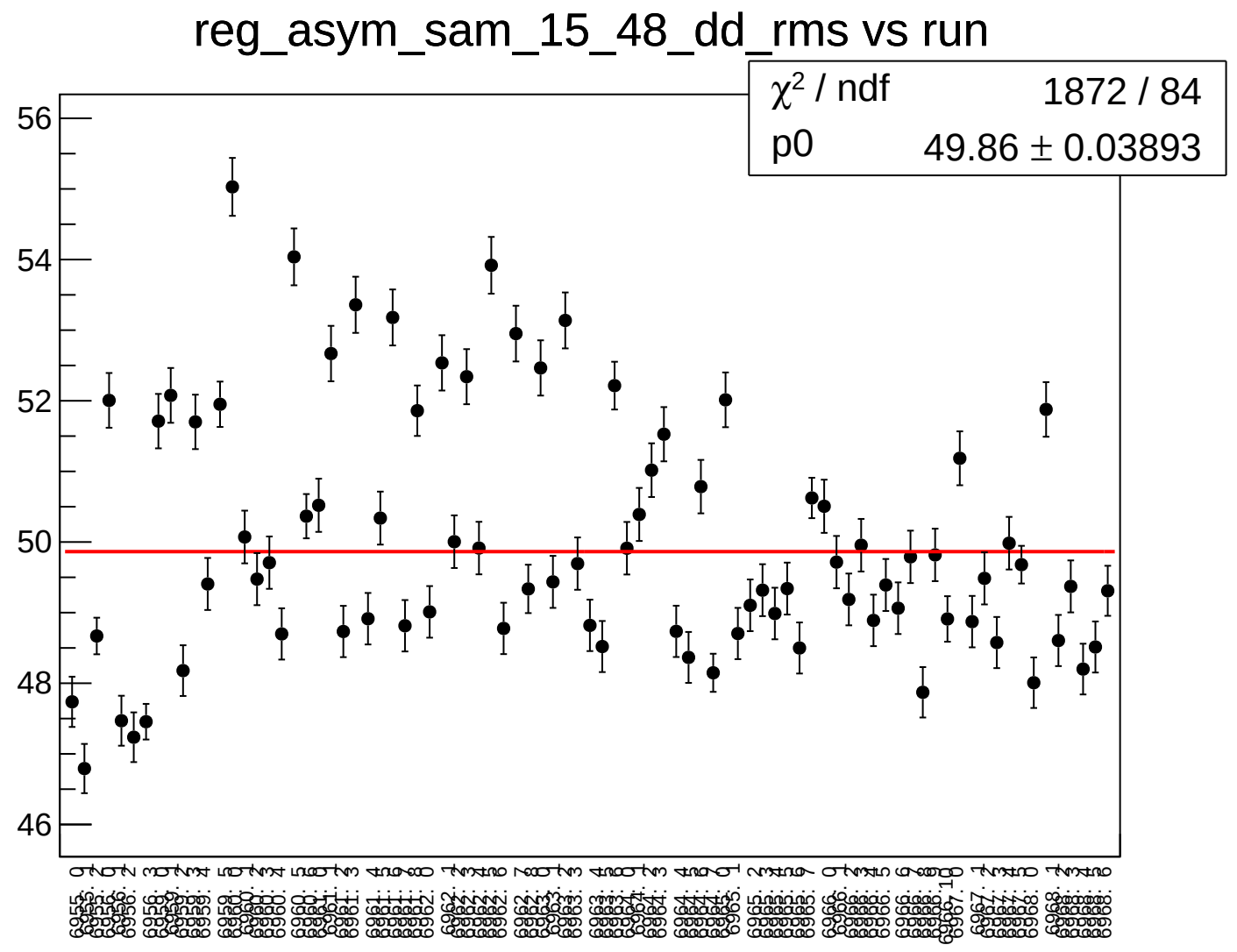

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.01 / 84
p0 −1.575e−14 ± 2.335e−14
pull
Entries 85
Mean 78.68
Std Dev 14.58

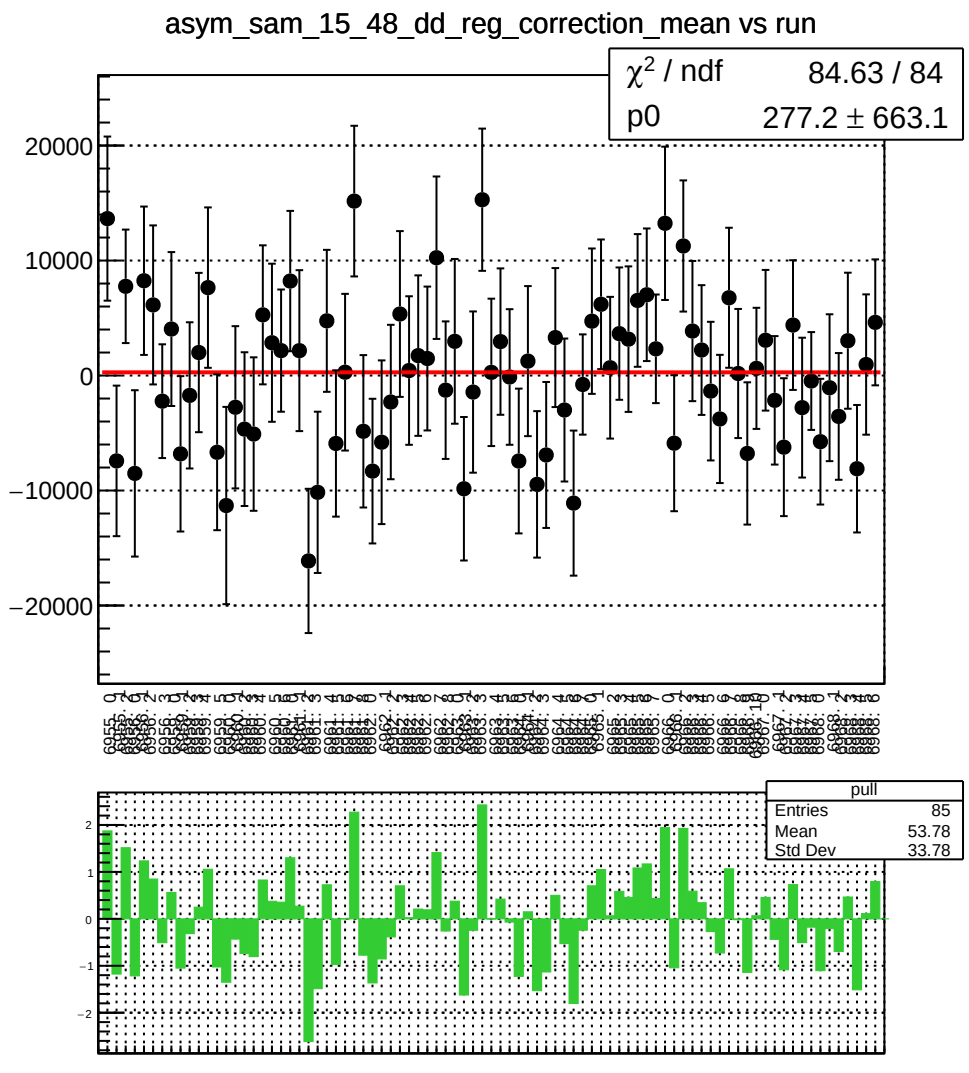

pull1D
Entries 85
Mean 0.04408
Std Dev 0.8599

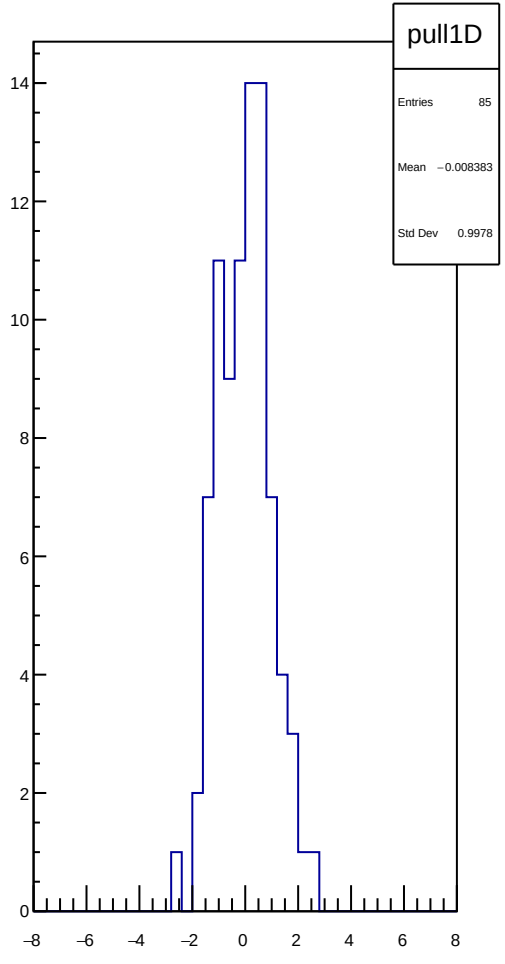

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.504e+05 / 84
p0 1.645e−11 ± 1.651e−14
0.12
0.1
0.08
0.06
0.04
0.02

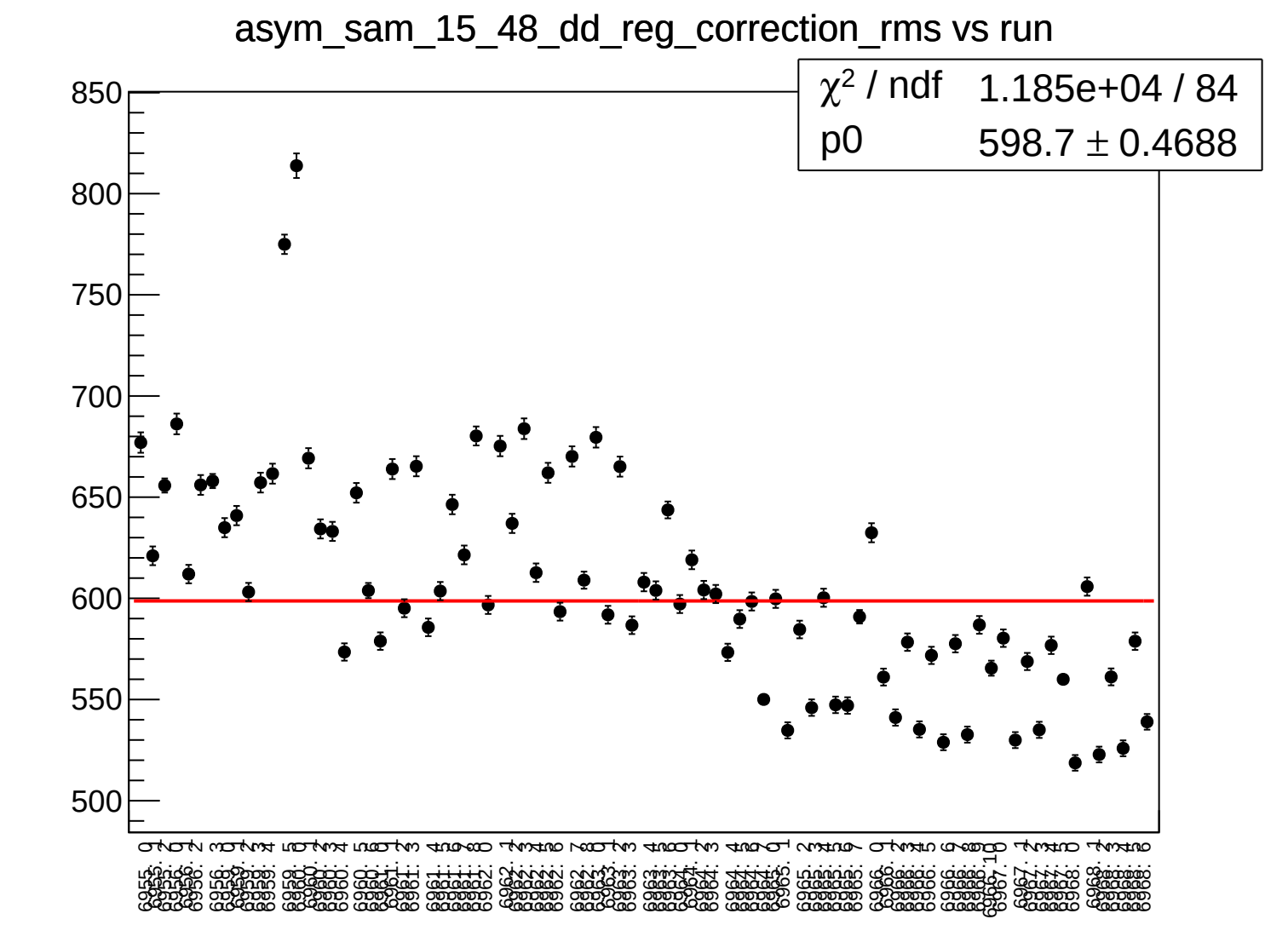

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 63.16 / 84
p0 −96.74 ± 55.05
pull
Entries 85
Mean −262.6
Std Dev 0

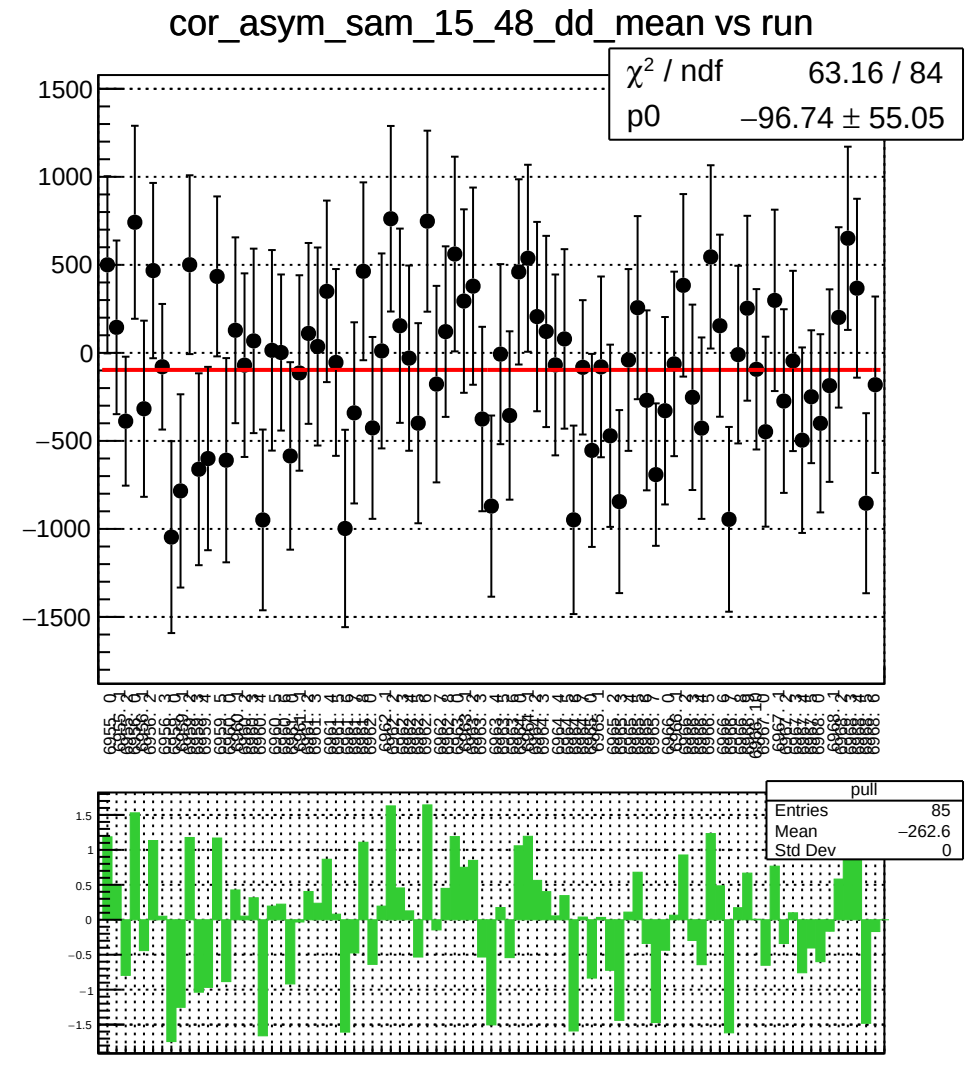

pull1D
Entries 85
Mean 0.003393
Std Dev 0.862

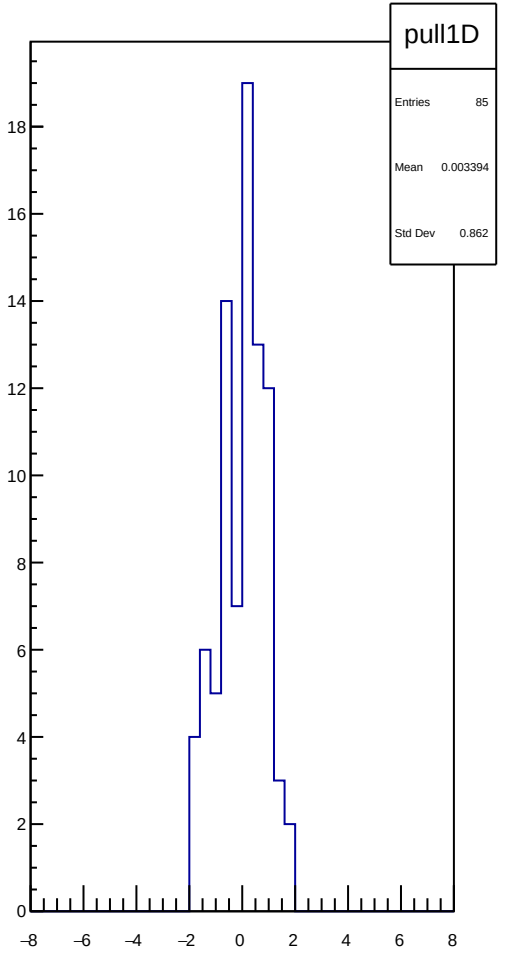

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1872 / 84
p0 49.86 ± 0.03893
56
54
52
50
48
46

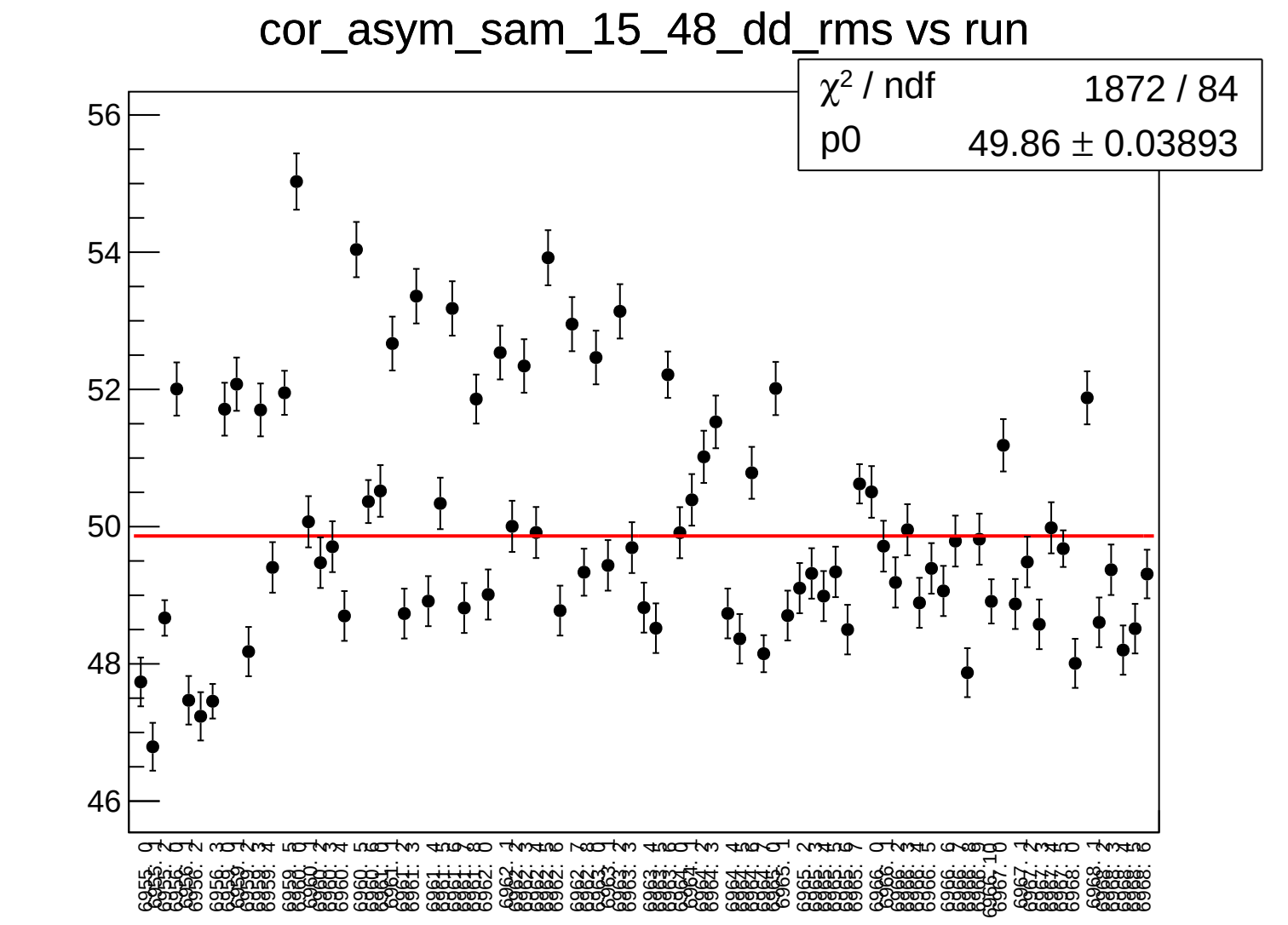

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 84.63 / 84
p0 277.2 ± 663.1
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 53.78
Std Dev 33.78
2
1
0
−1
−2

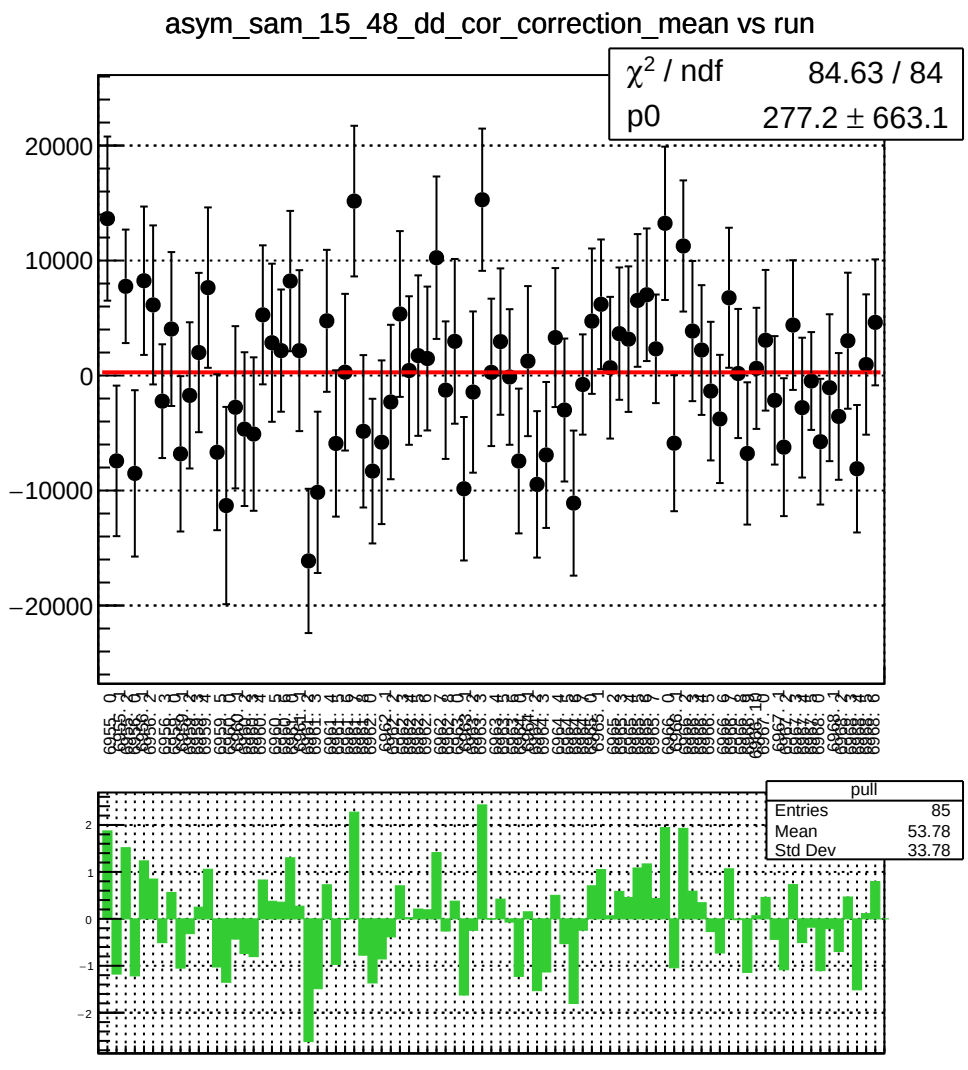

pull1D
Entries 85
Mean −0.008383
Std Dev 0.9978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

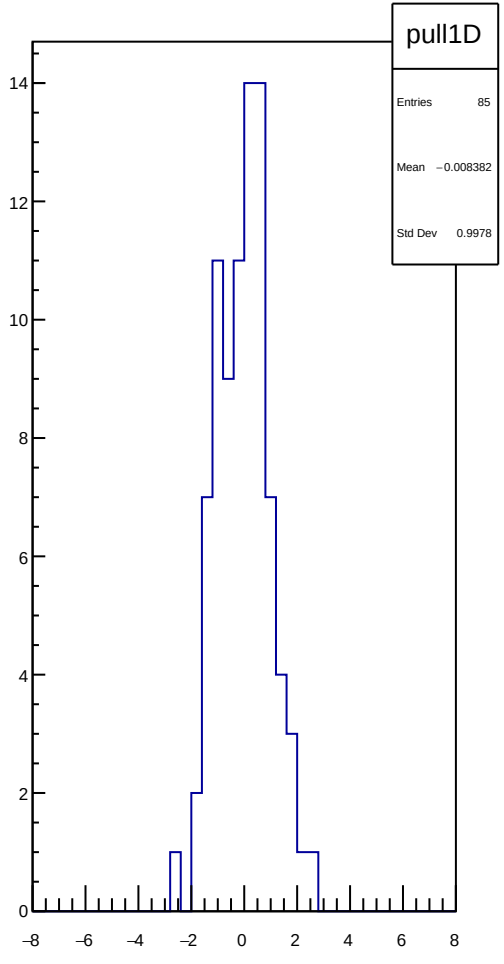

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.185e+04 / 84
p0 598.7 ± 0.4688
850
800
750
700
650
600
550
500

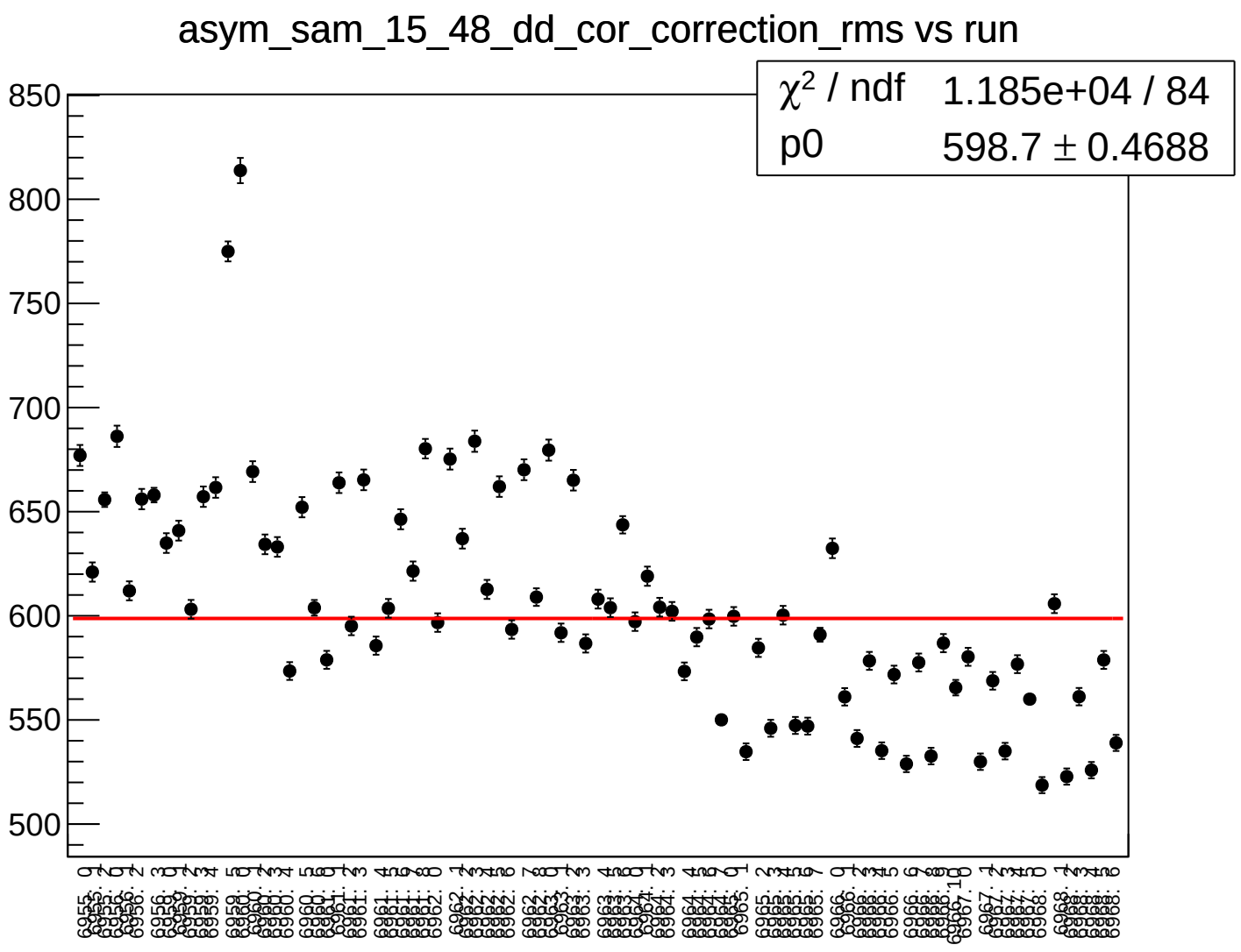

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 63.16 / 84
p0 −96.74 ± 55.05
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean −262.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

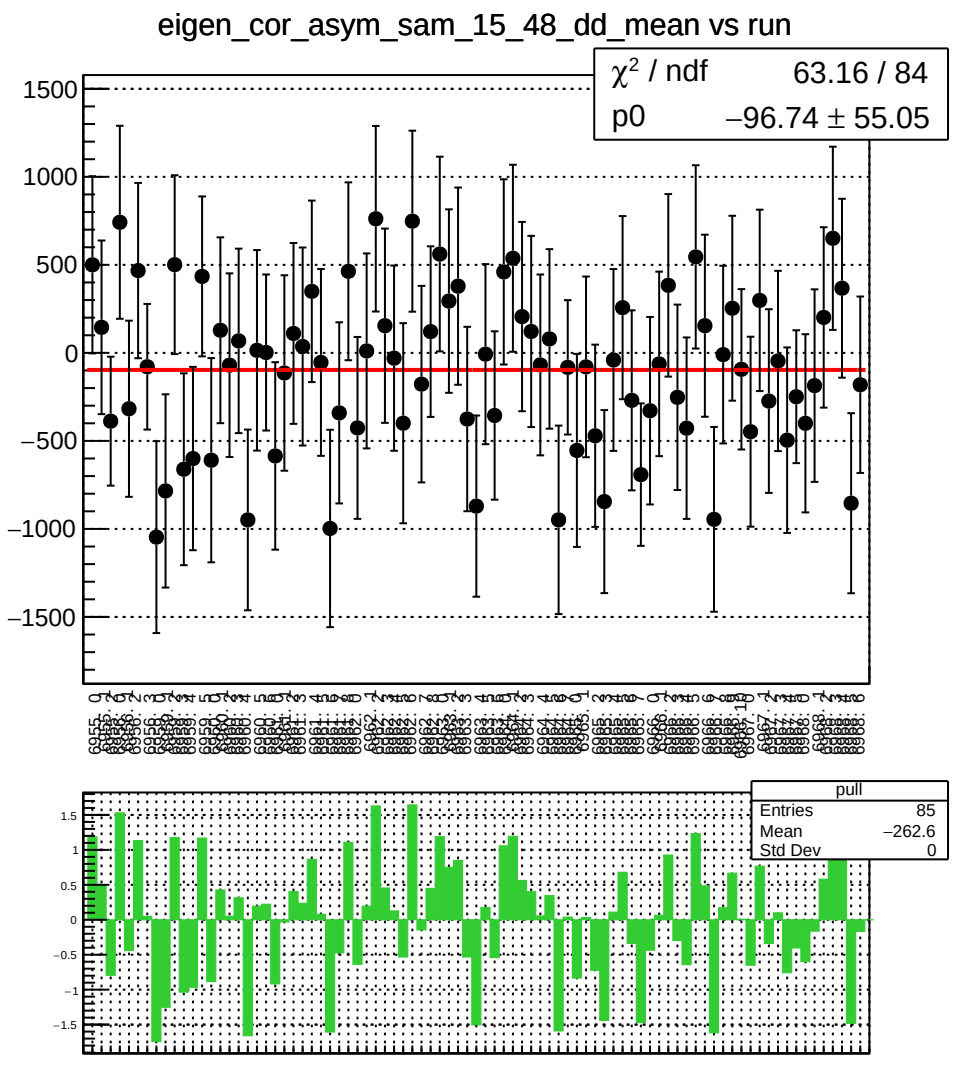

pull1D
Entries 85
Mean 0.003394
Std Dev 0.862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

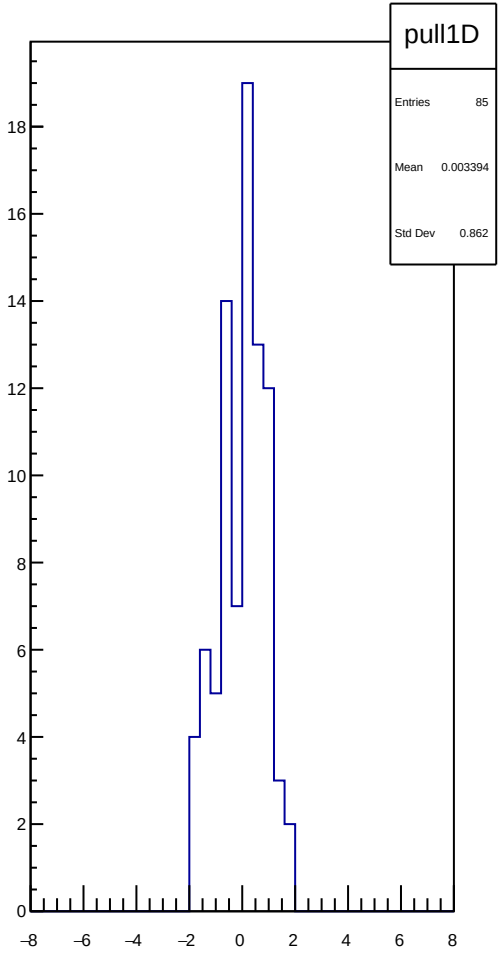

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1872 / 84
p0 49.86 ± 0.03893
56
54
52
50
48
46

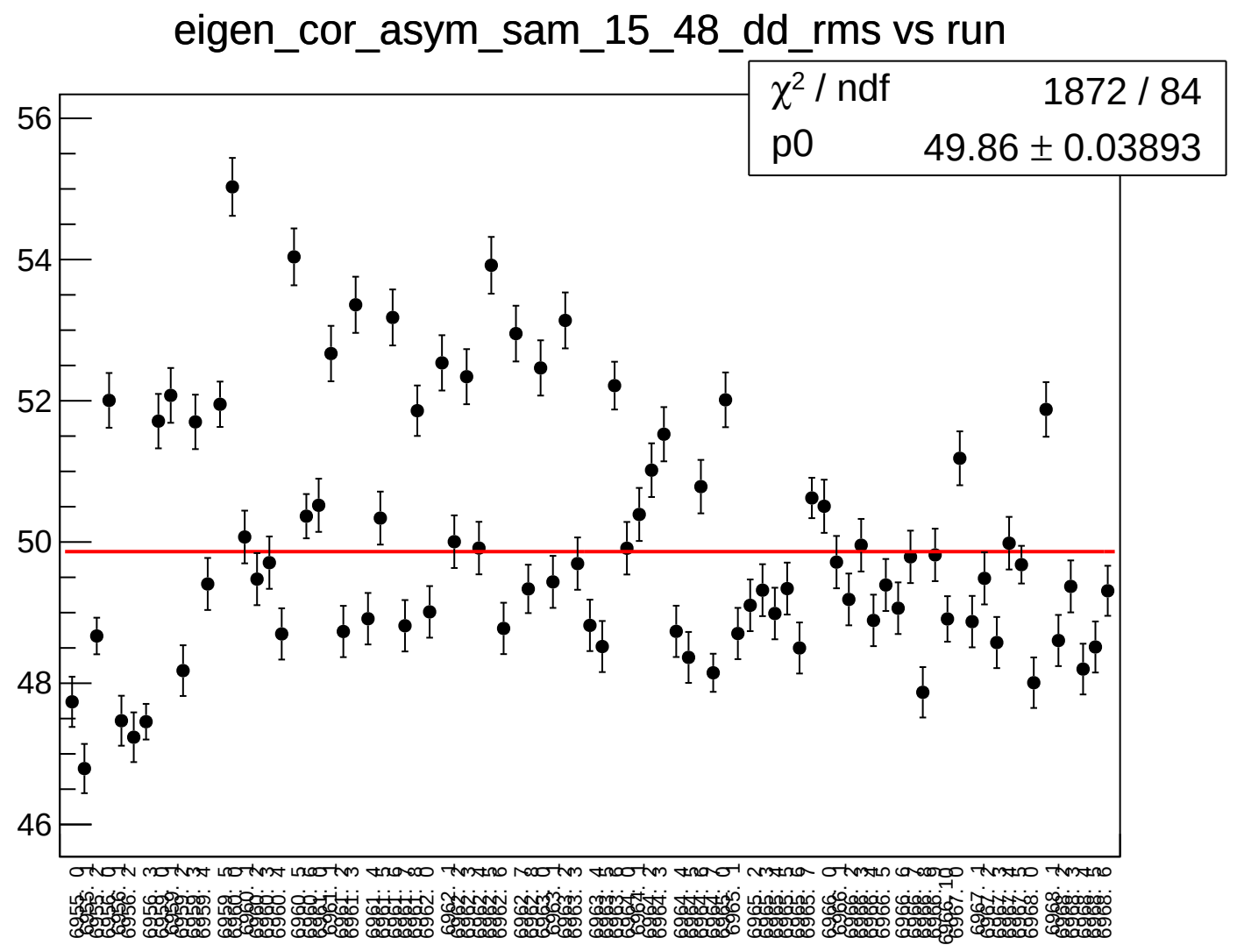

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 84.63 / 84
p0 277.2 ± 663.1
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 53.78
Std Dev 33.78
2
1
0
−1
−2

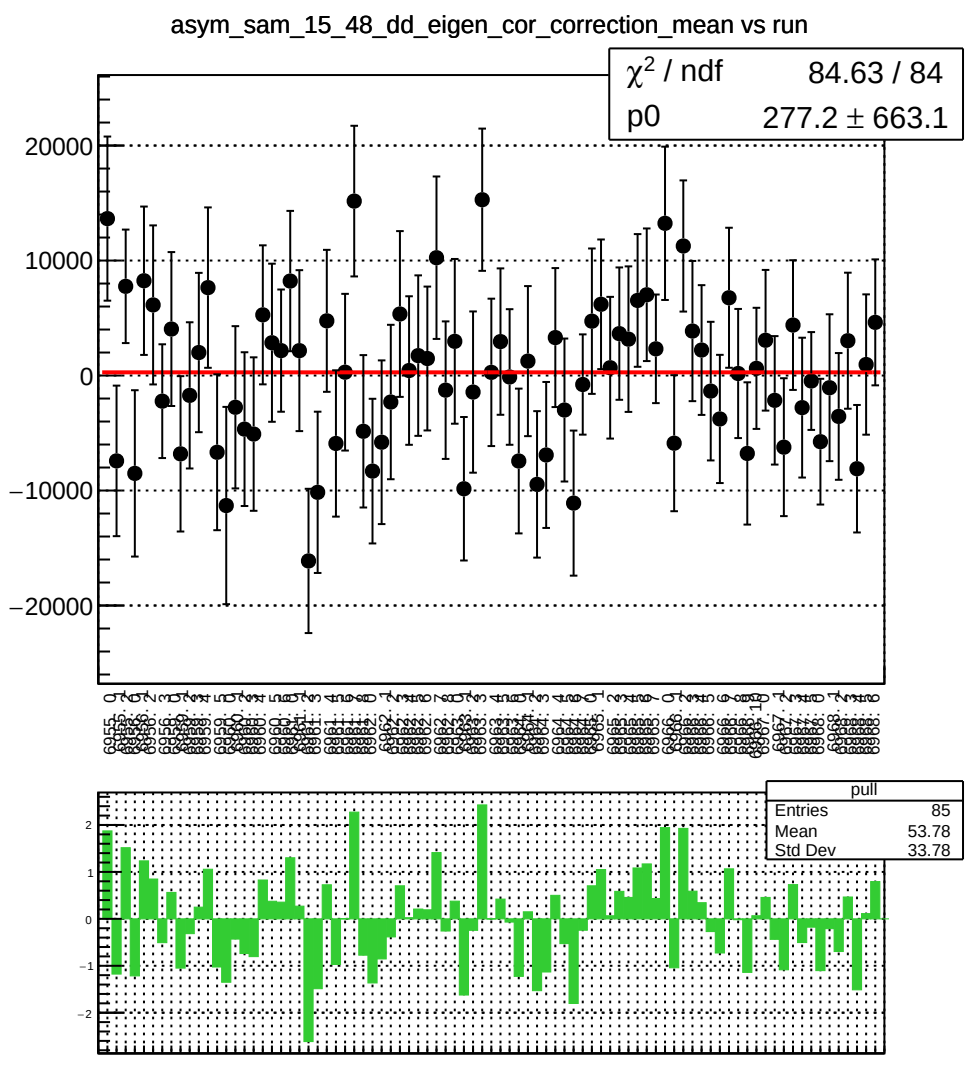

pull1D
Entries 85
Mean −0.008382
Std Dev 0.9978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

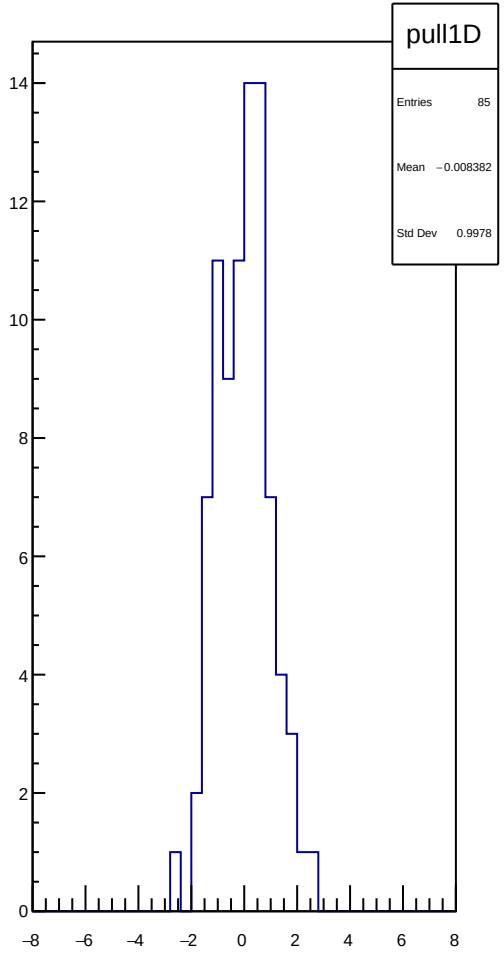

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.185e+04 / 84
p0 598.7 ± 0.4688
850
800
750
700
650
600
550
500

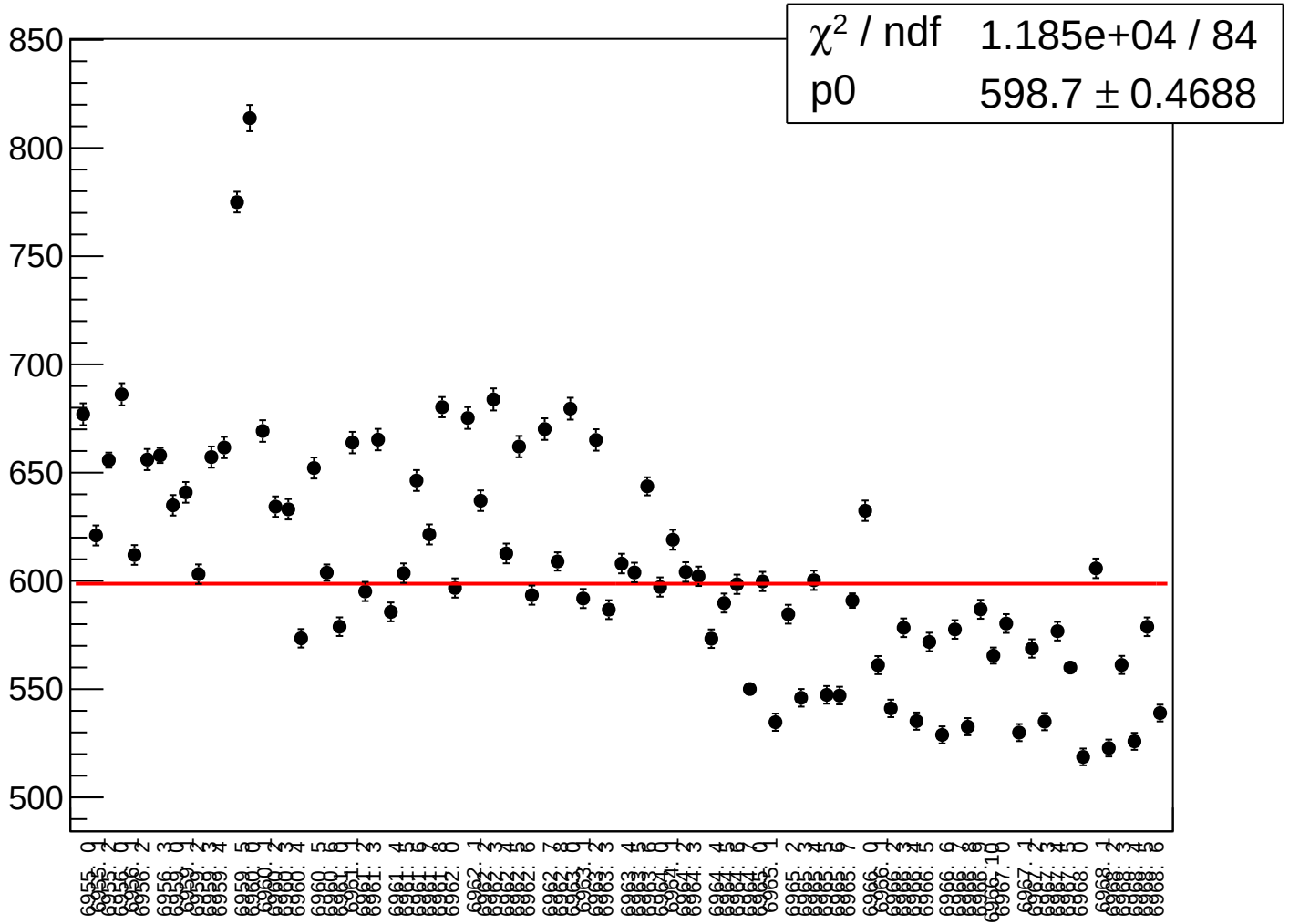

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 63.16 / 84
p0 −96.74 ± 55.05
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean −262.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

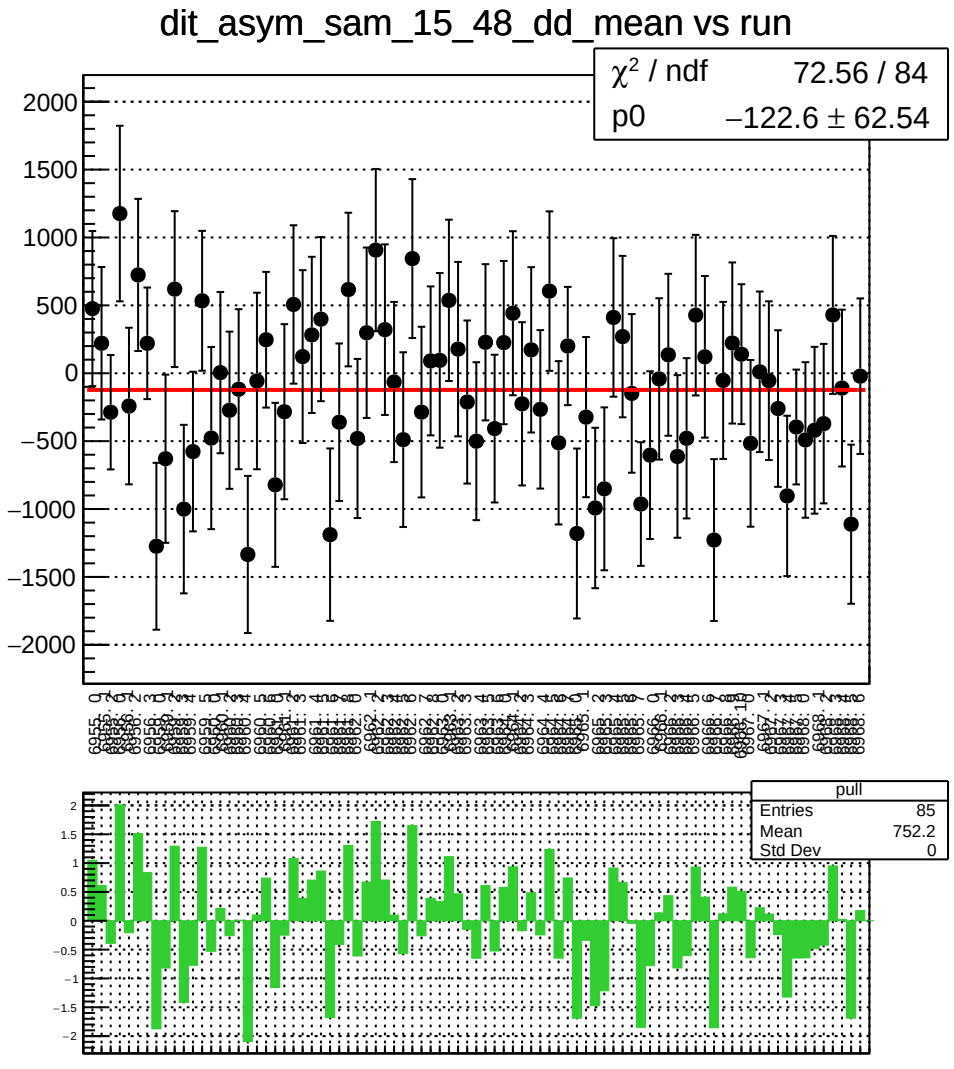

pull1D
Entries 85
Mean 0.003394
Std Dev 0.862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

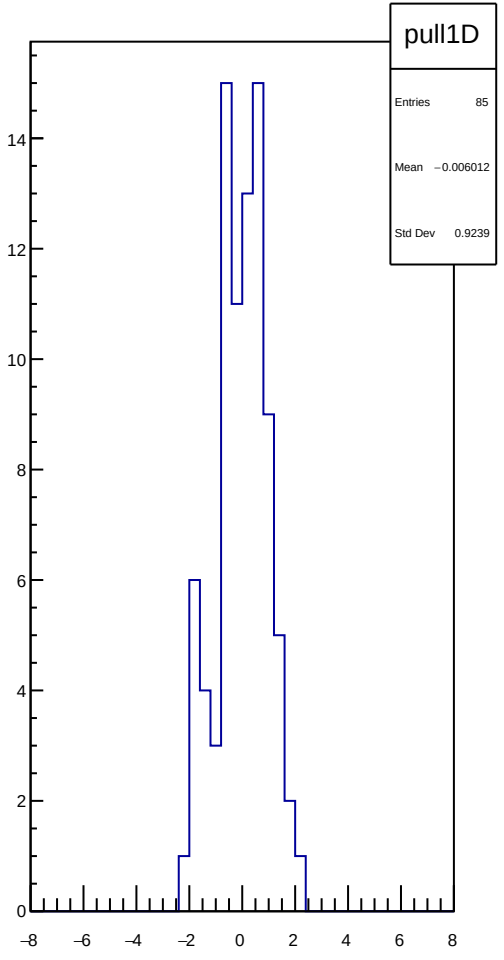

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1872 / 84
p0 49.86 ± 0.03893
56
54
52
50
48
46

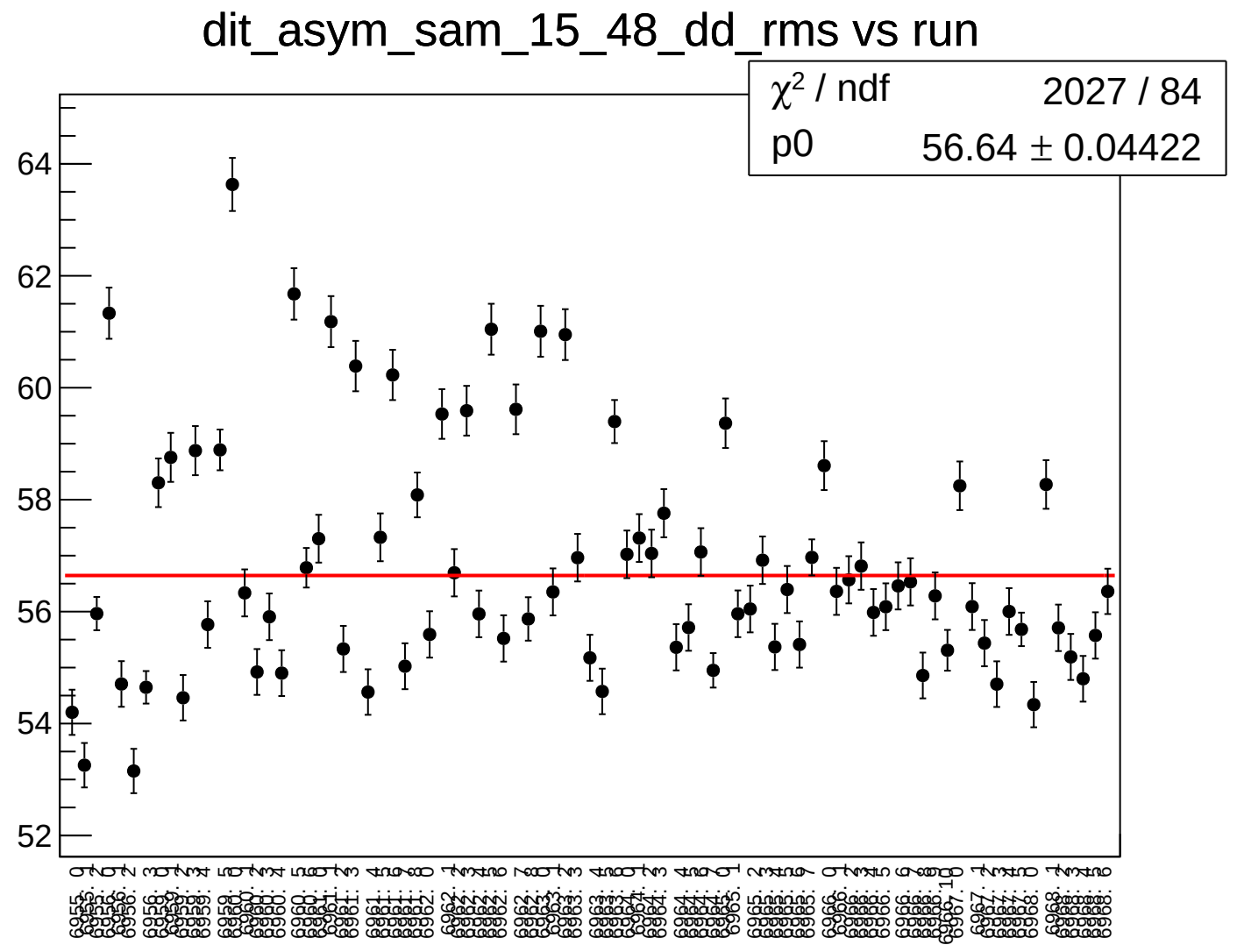

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.63 / 84
p0 277.2 ± 663.1
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 53.78
Std Dev 33.78
2
1
0
−1
−2

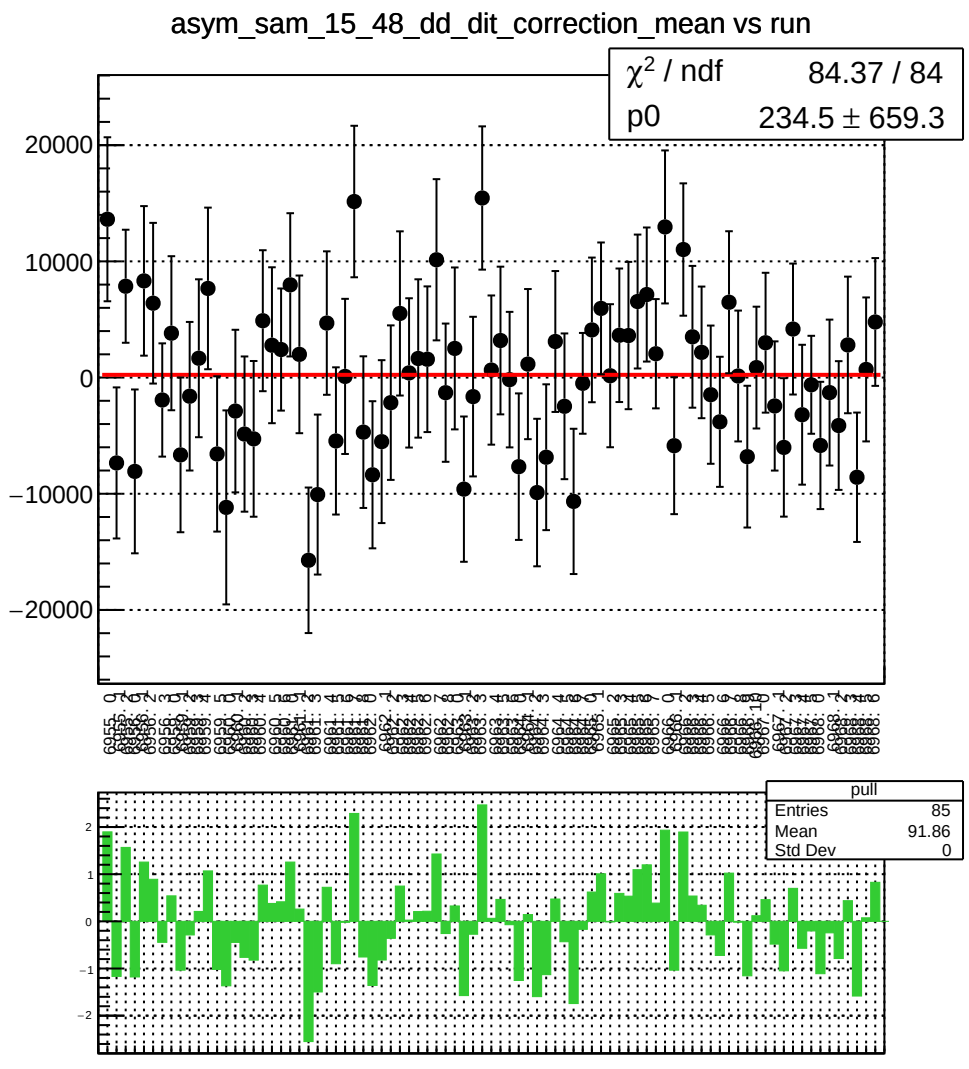

pull1D
Entries 85
Mean −0.008382
Std Dev 0.9978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

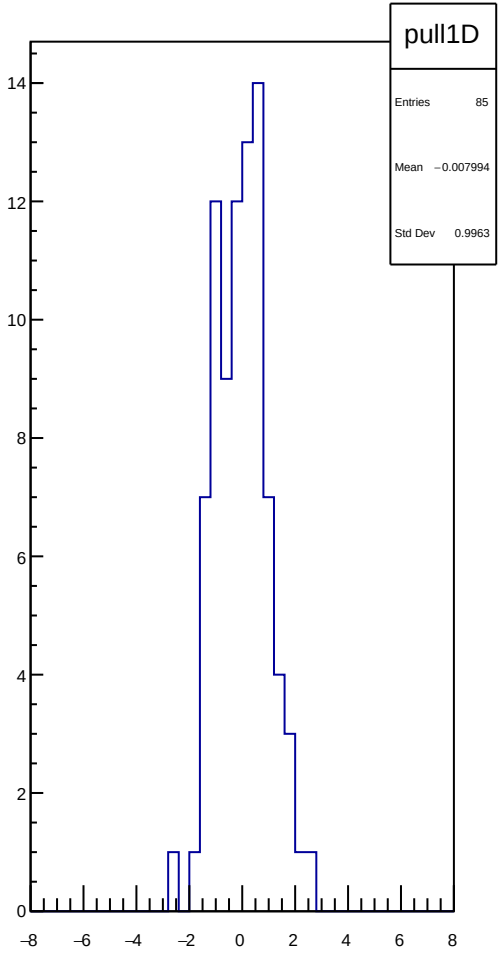

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.185e+04 / 84
p0 598.7 ± 0.4688
850
800
750
700
650
600
550
500

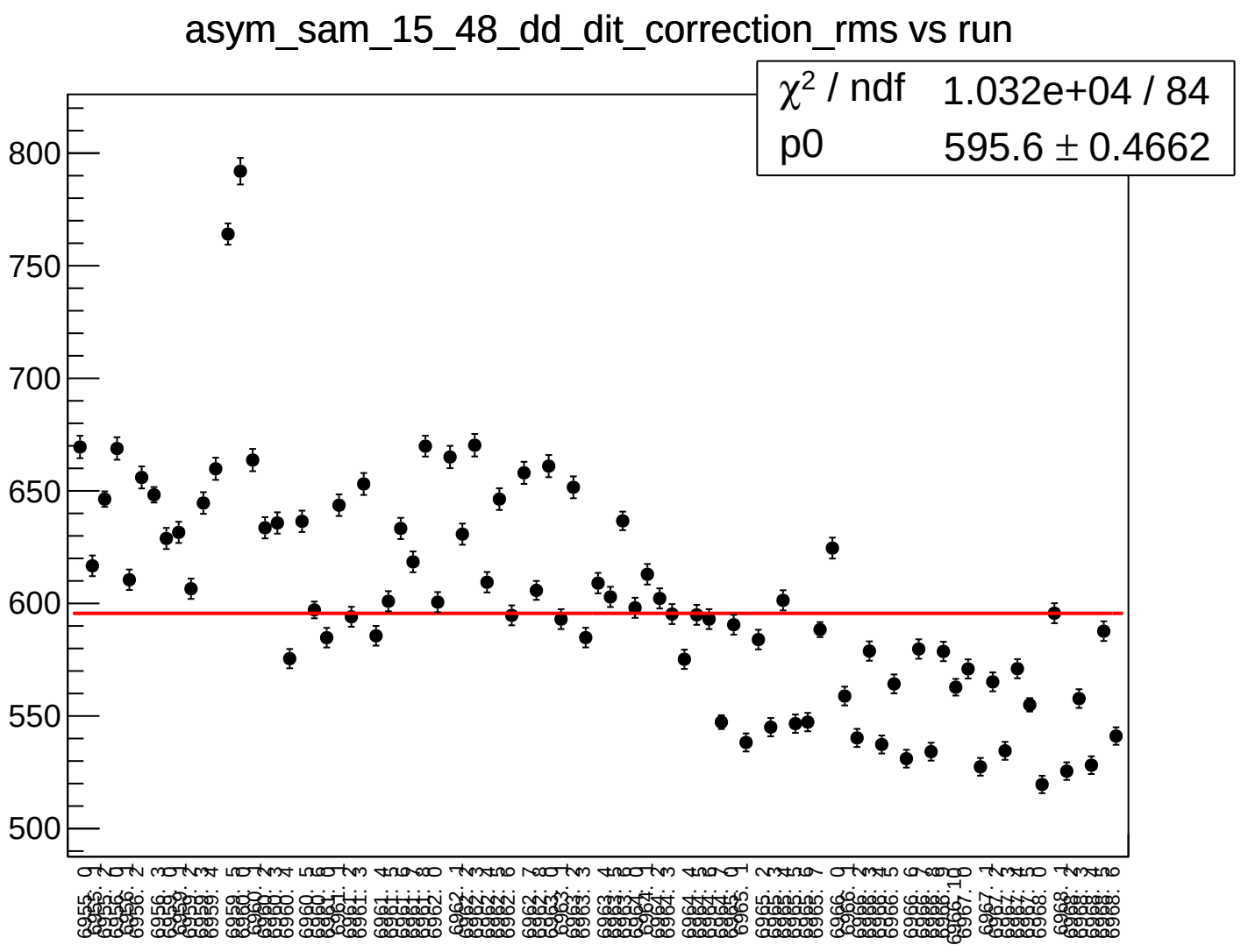

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 72.56 / 84
p0 −122.6 ± 62.54
pull
Entries 85
Mean 752.2
Std Dev 0

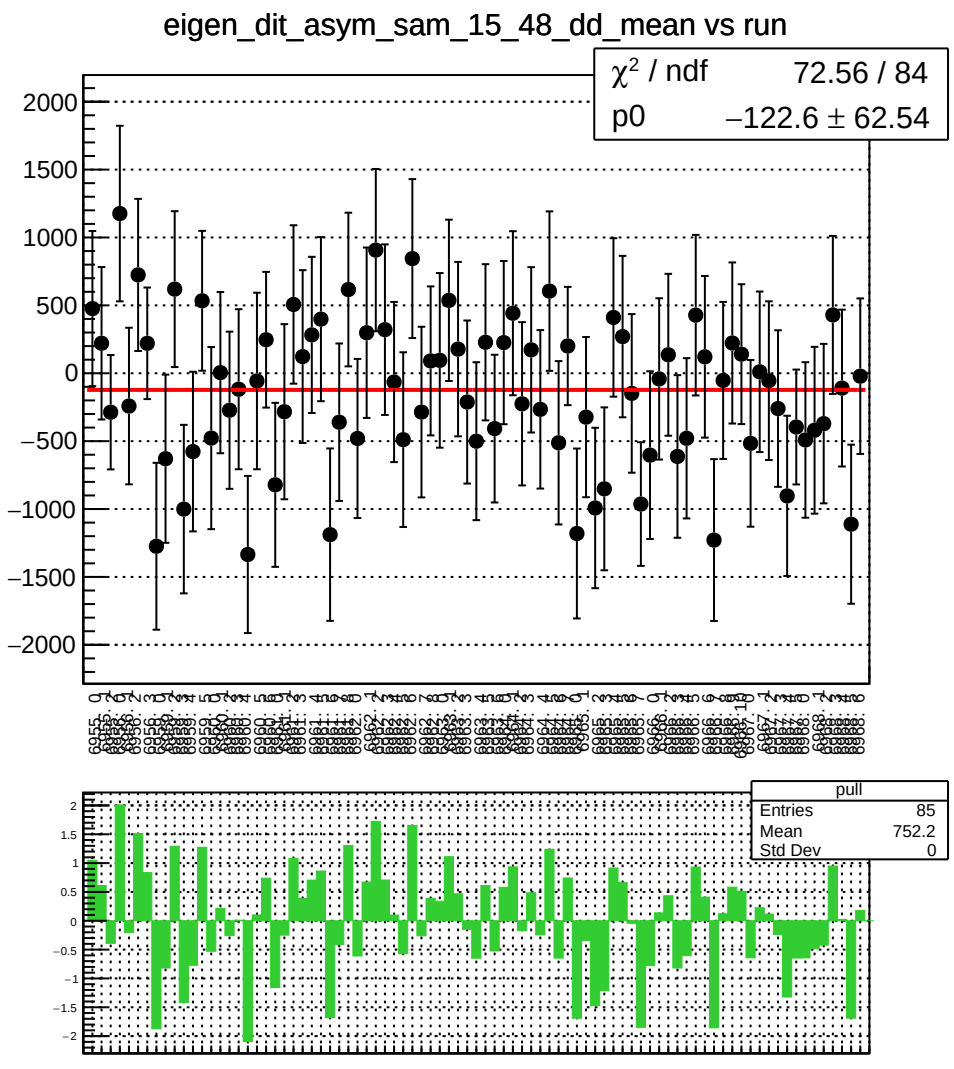

pull1D
Entries 85
Mean −0.006012
Std Dev 0.9239

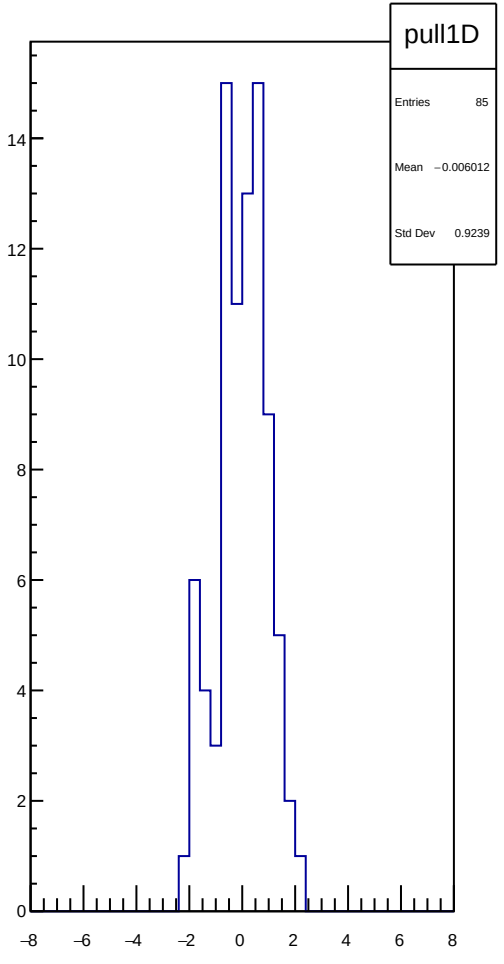

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2027 / 84
p0 56.64 ± 0.04422
64
62
60
58
56
54
52

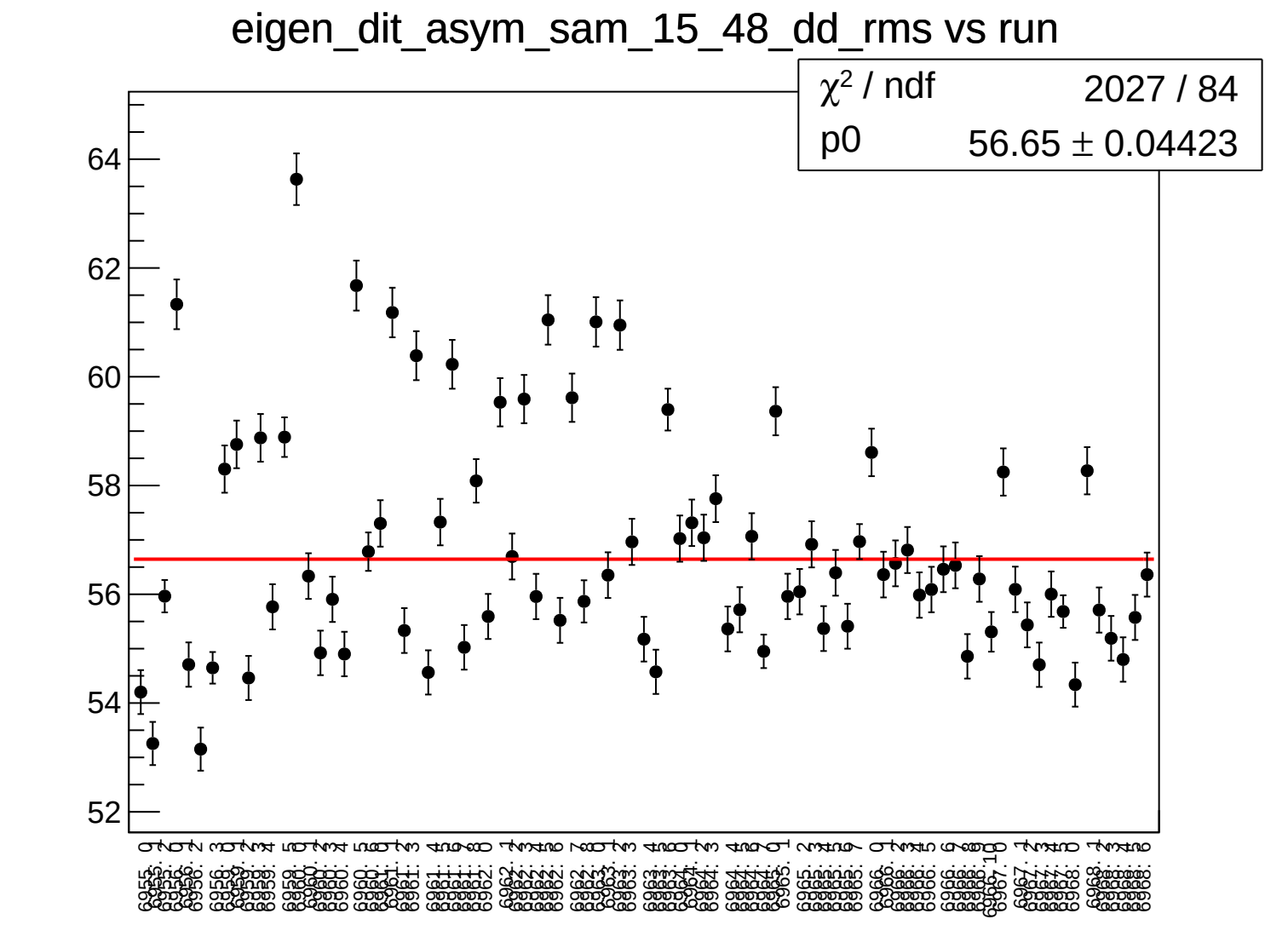

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 84.37 / 84
p0 234.5 ± 659.3
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 91.86
Std Dev 0
2
1
0
−1
−2

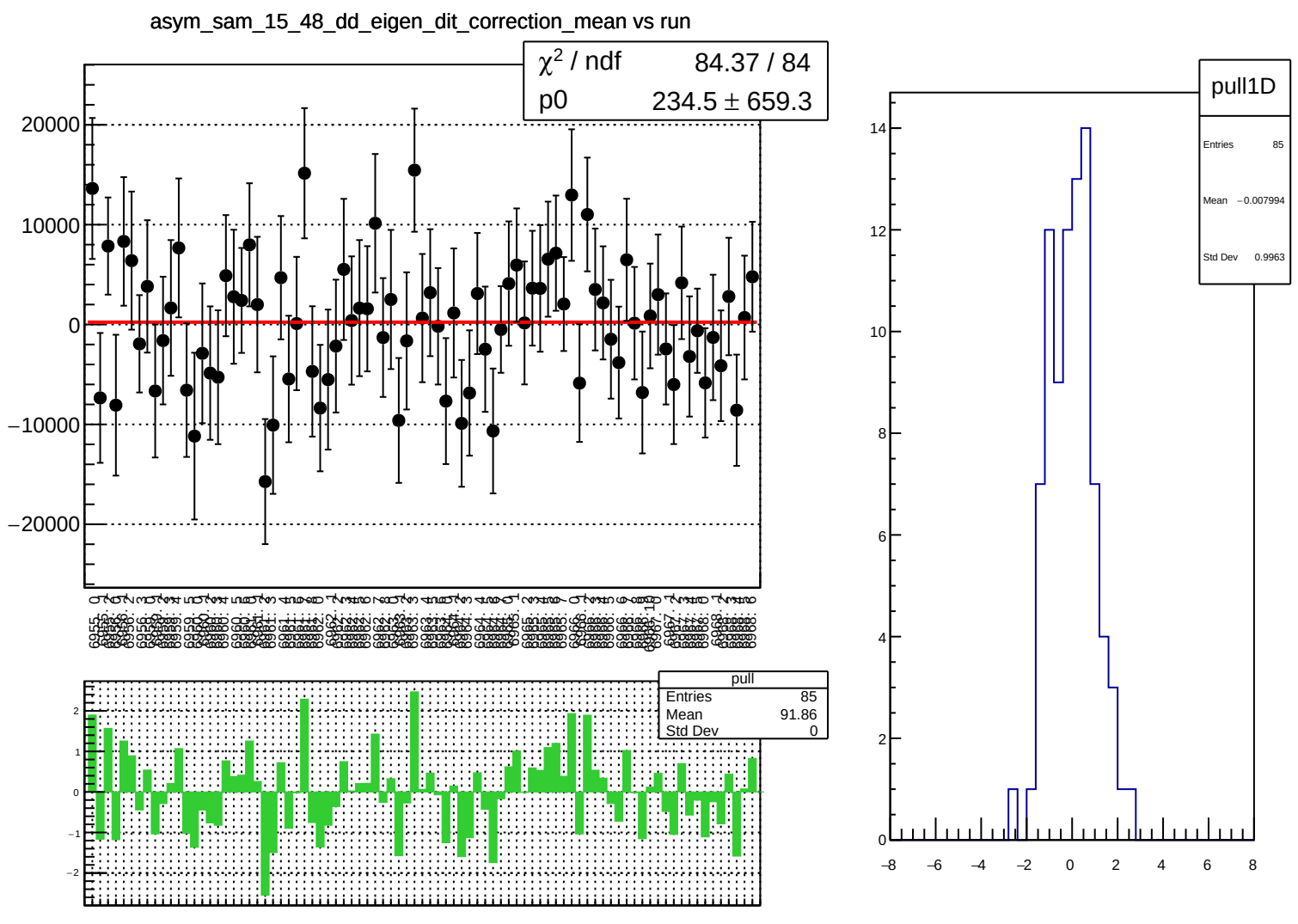

pull1D
Entries 85
Mean −0.007994
Std Dev 0.9963
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

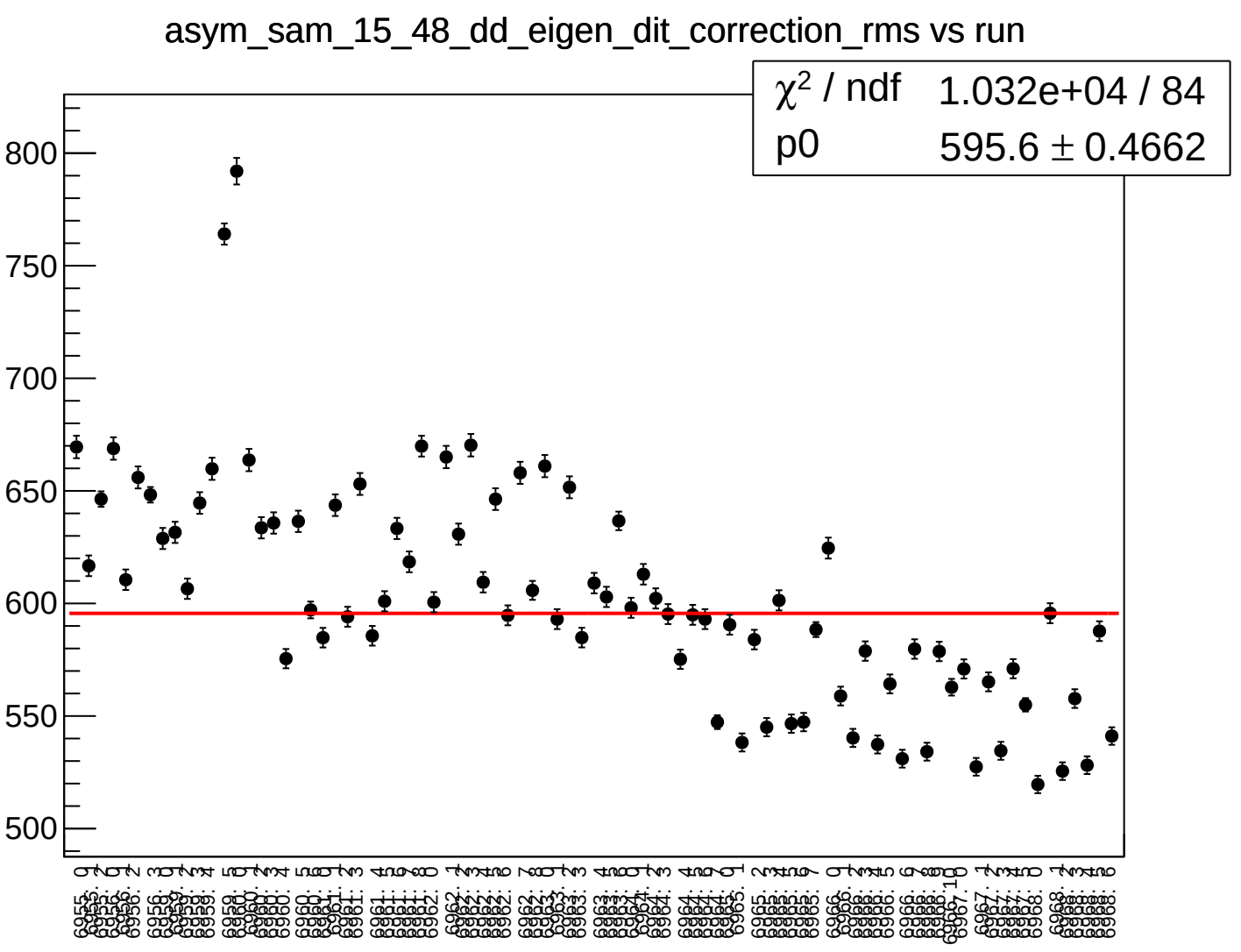

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.032e+04 / 84
p0 595.6 ± 0.4662
800
750
700
650
600
550
500

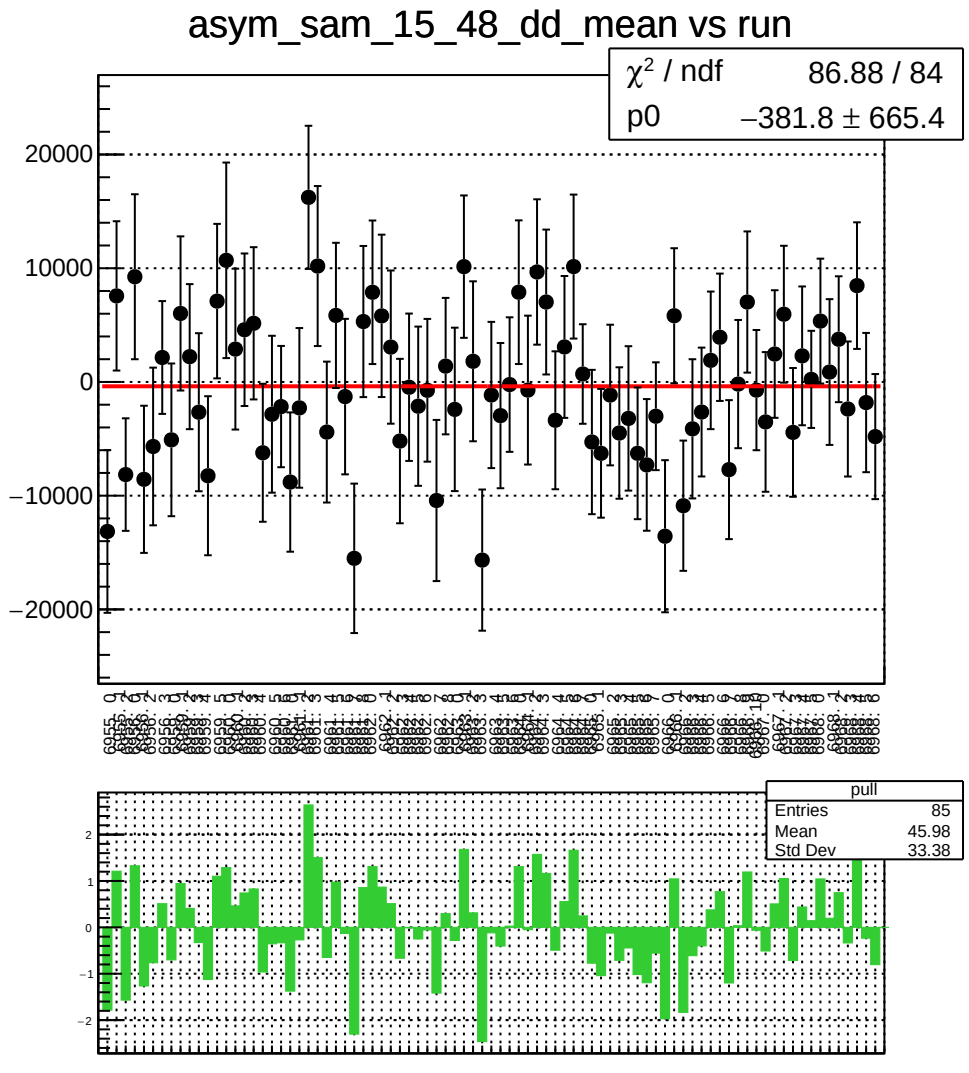

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 72.56 / 84
p0 −122.6 ± 62.54
pull
Entries 85
Mean 752.2
Std Dev 0

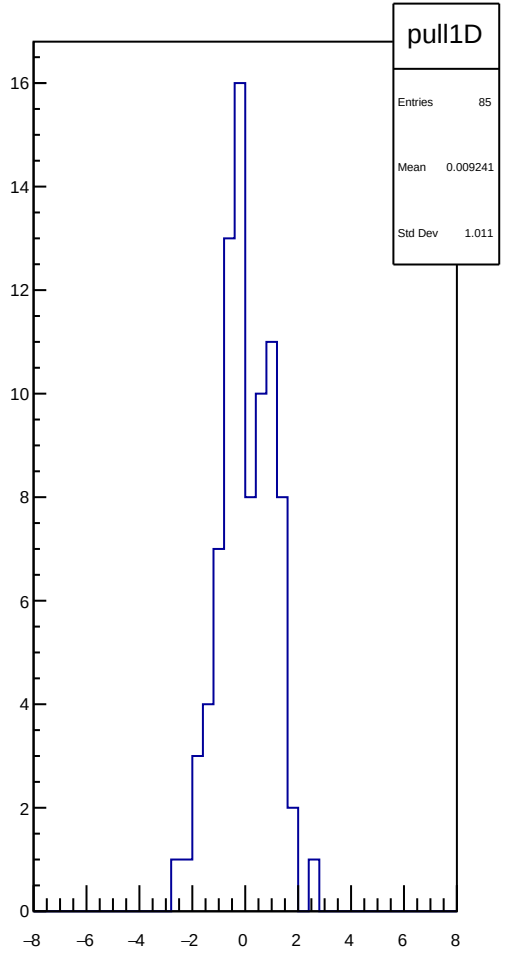

pull1D
Entries 85
Mean −0.006012
Std Dev 0.9239

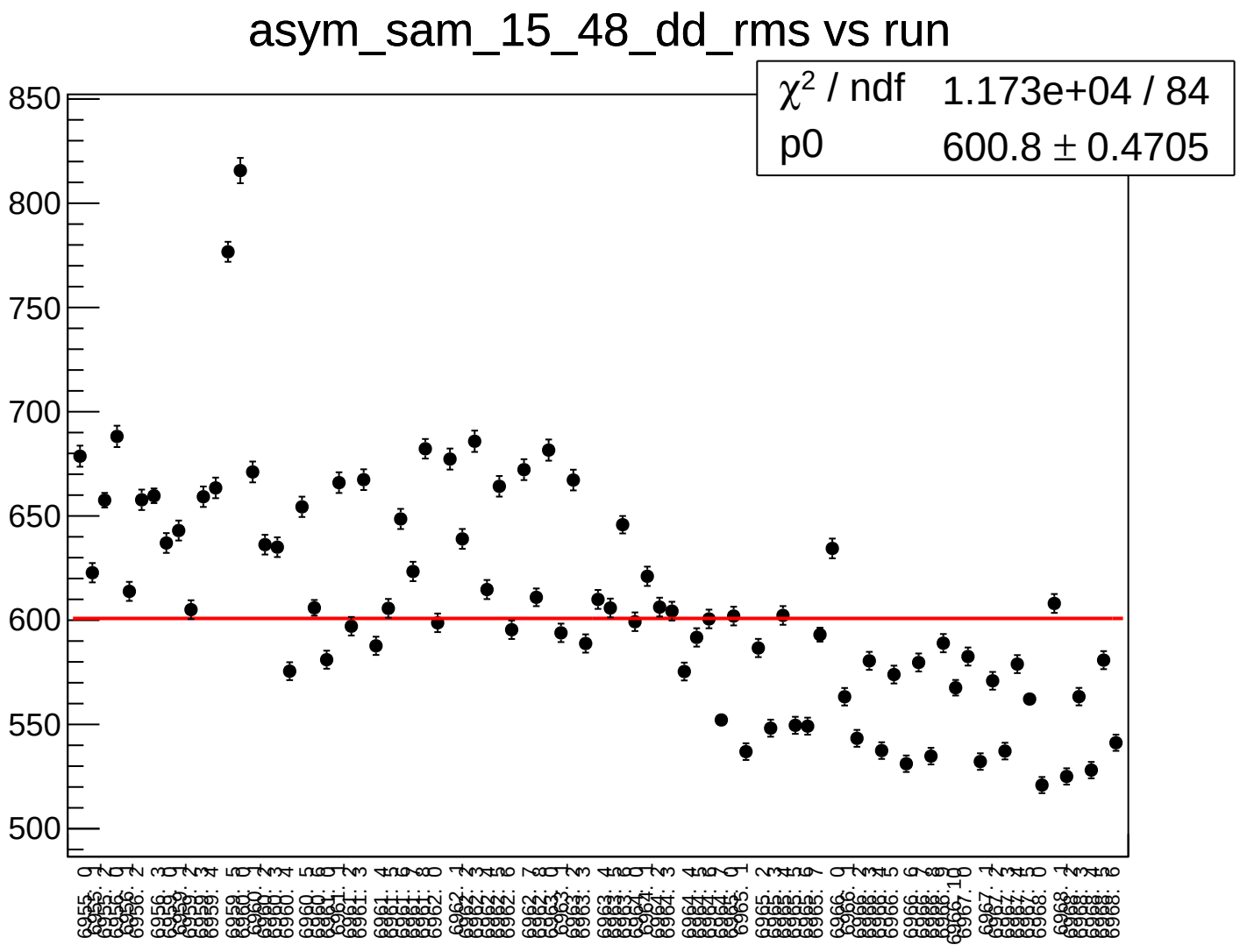

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2027 / 84
p0 56.65 ± 0.04423
64
62
60
58
56
54
52

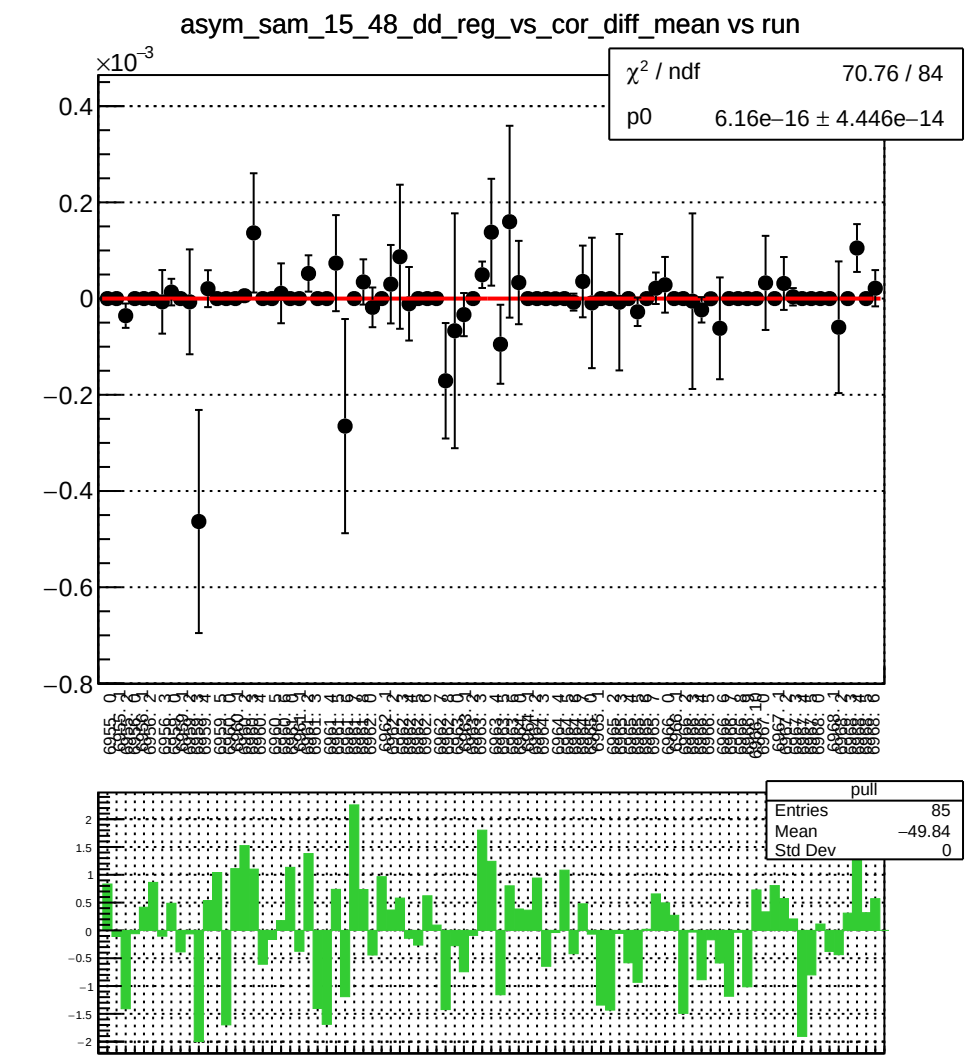

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.37 / 84
p0 234.5 ± 659.3
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 91.86
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.007994
Std Dev 0.9963
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

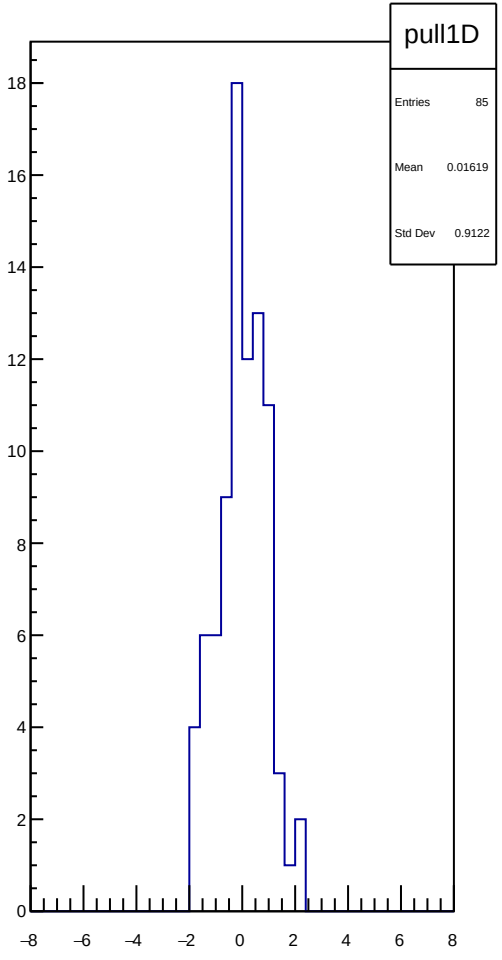

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.032e+04 / 84
p0 595.6 ± 0.4662
800
750
700
650
600
550
500

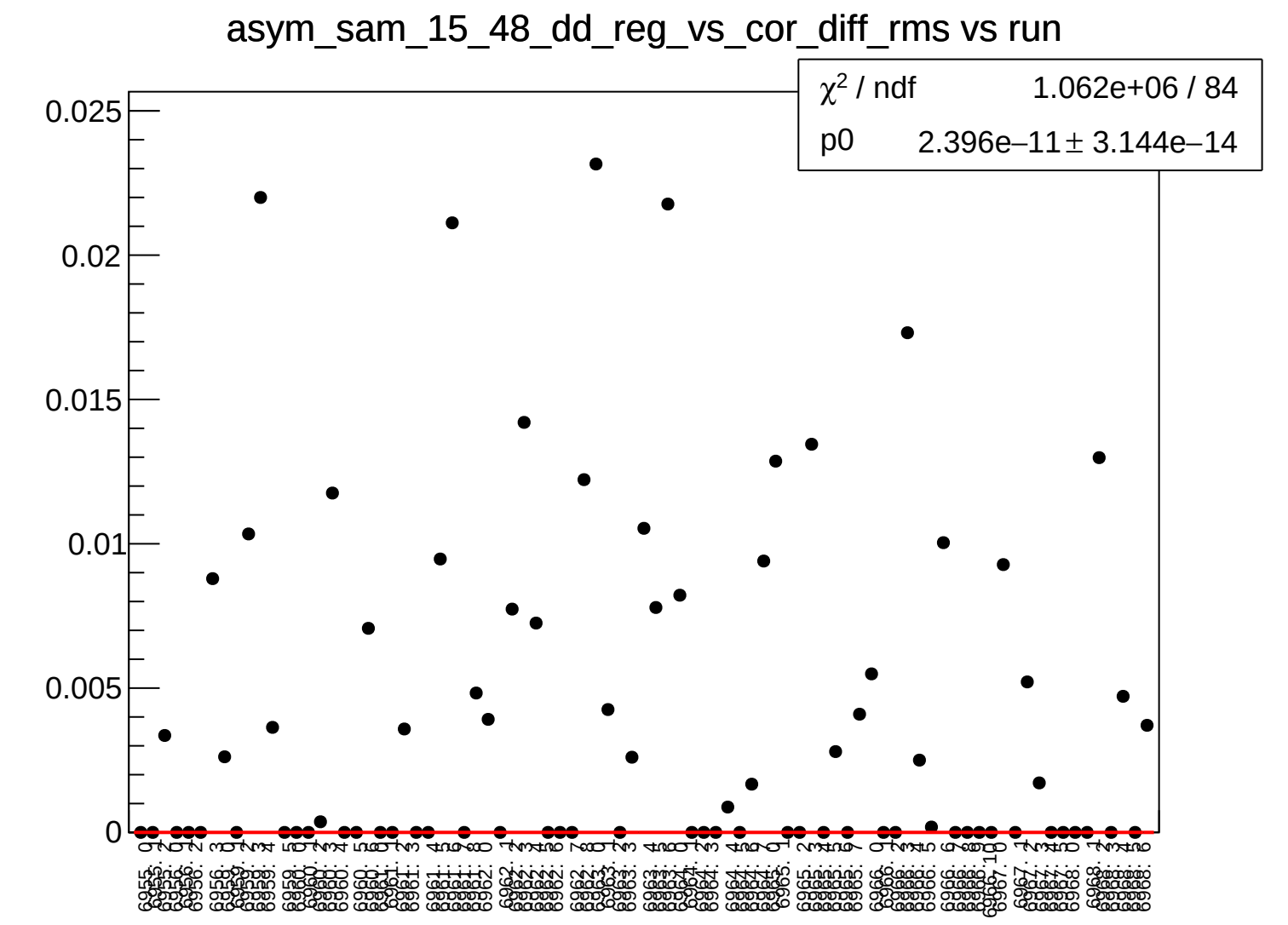

asym_sam_15_48_dd_mean vs run
χ² / ndf 86.88 / 84
p0 −381.8 ± 665.4
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 45.98
Std Dev 33.38
2
1
0
−1
−2

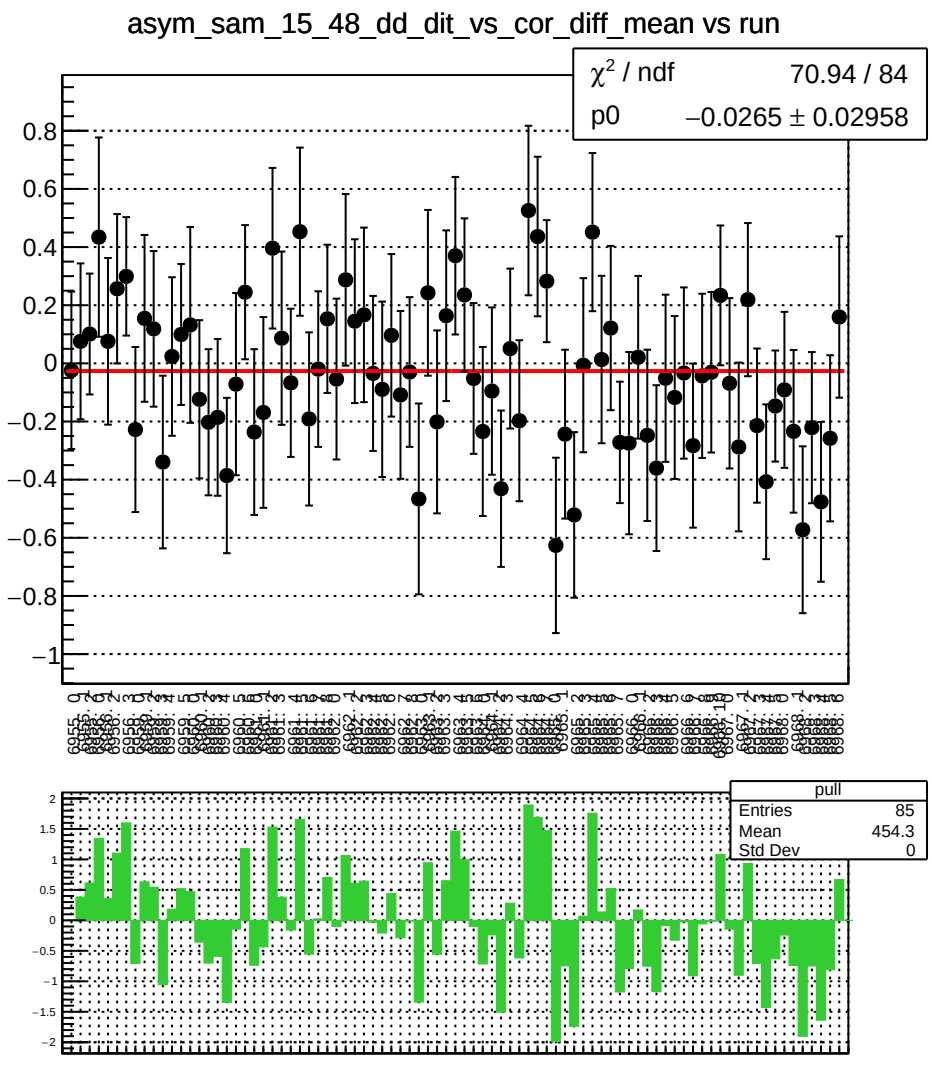

pull1D
Entries 85
Mean 0.009241
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

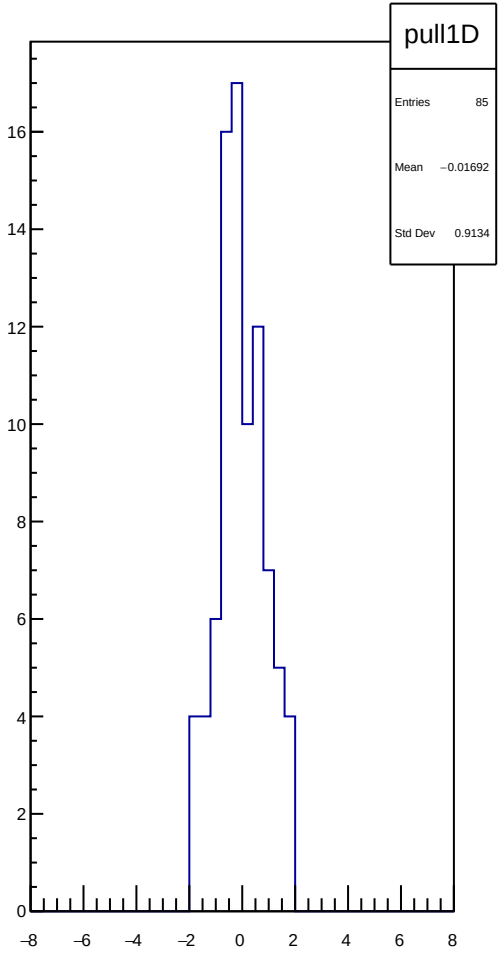

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.173e+04 / 84
p0 600.8 ± 0.4705
850
800
750
700
650
600
550
500

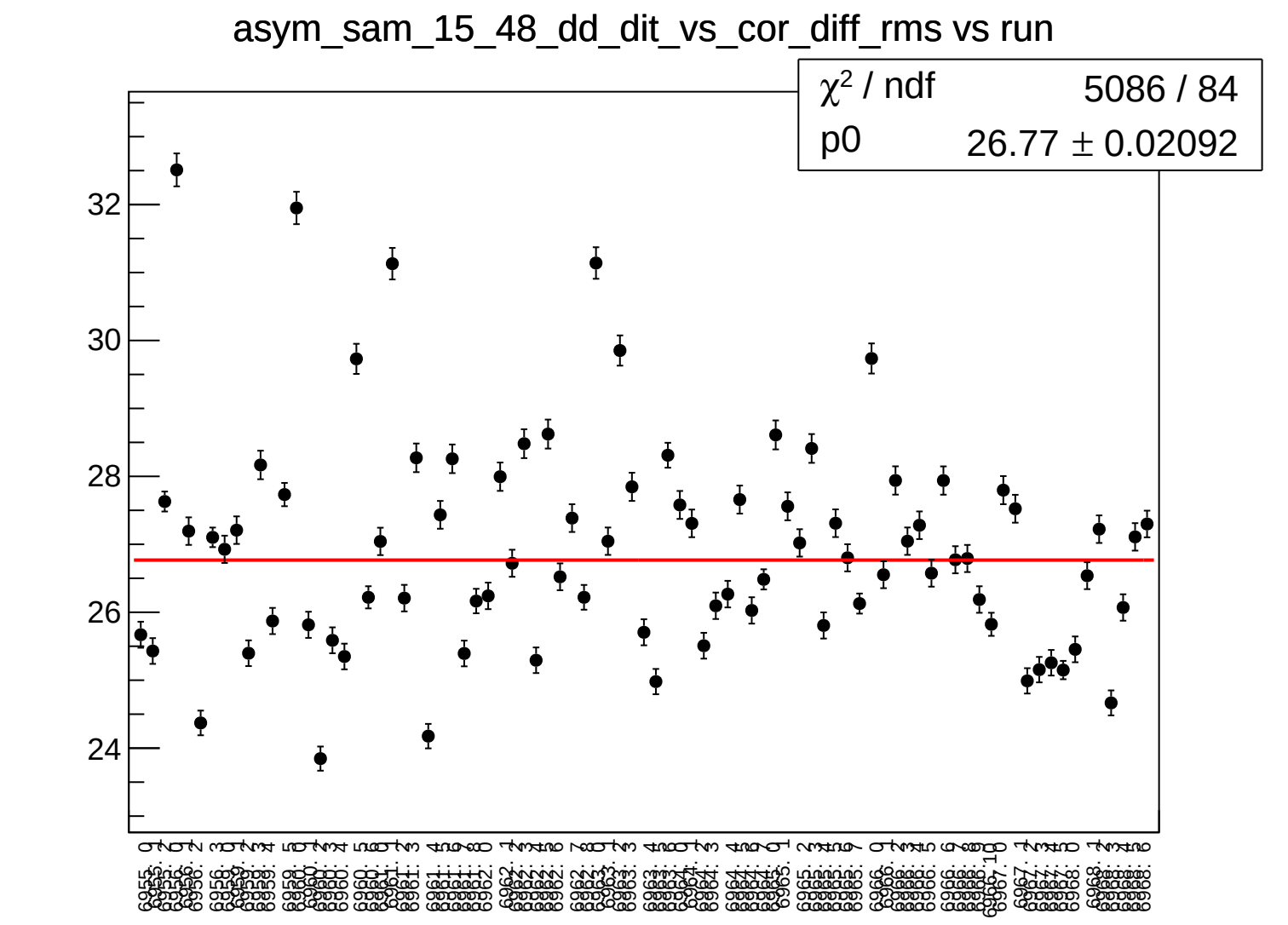

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 70.76 / 84
p0 6.16e−16 ± 4.446e−14
pull
Entries 85
Mean −49.84
Std Dev 0

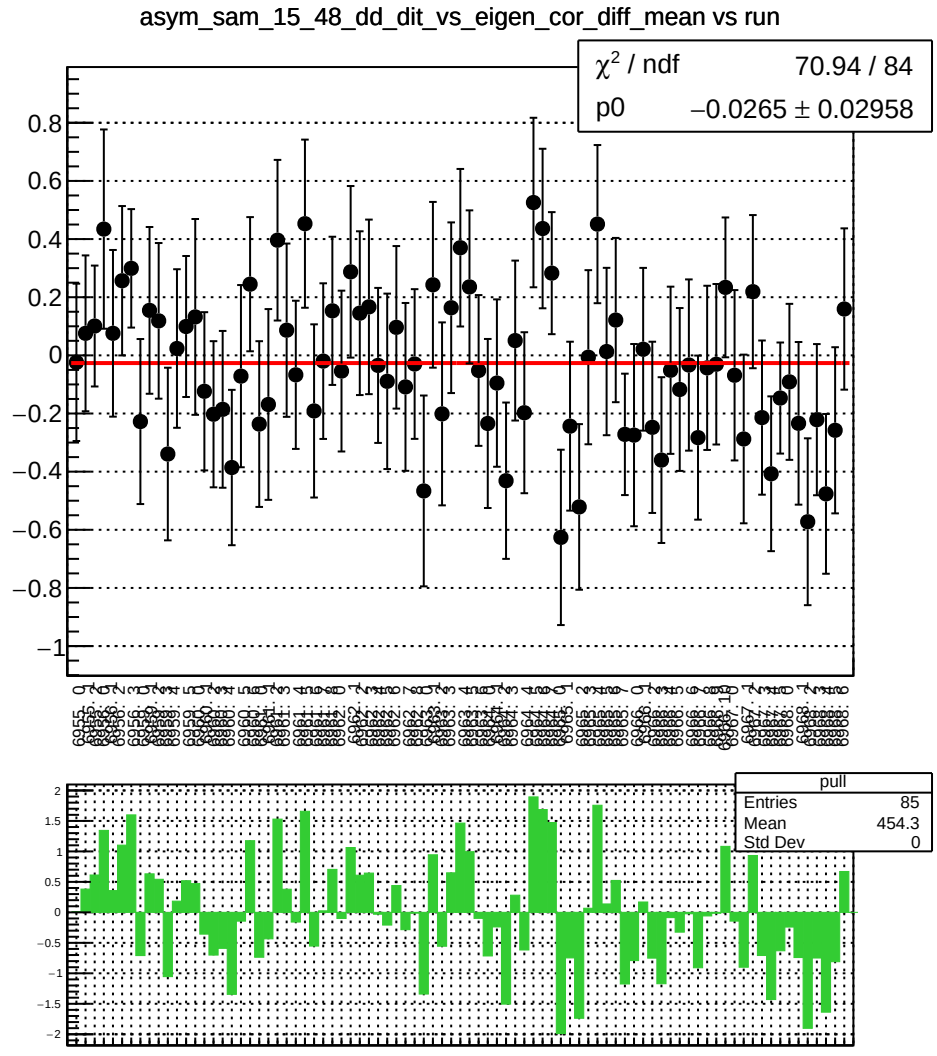

pull1D
Entries 85
Mean 0.01619
Std Dev 0.9122

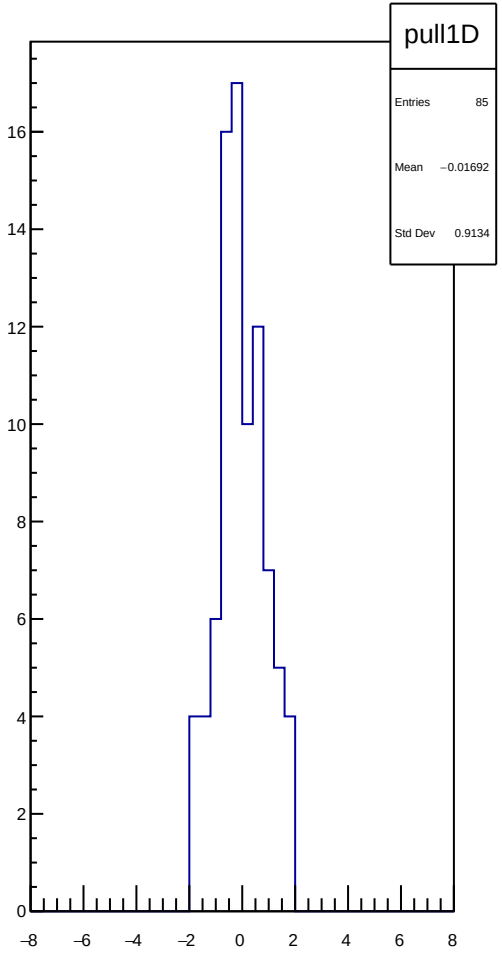

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 84
p0 2.396e−11 ± 3.144e−14
0.025
0.02
0.015
0.01
0.005
0

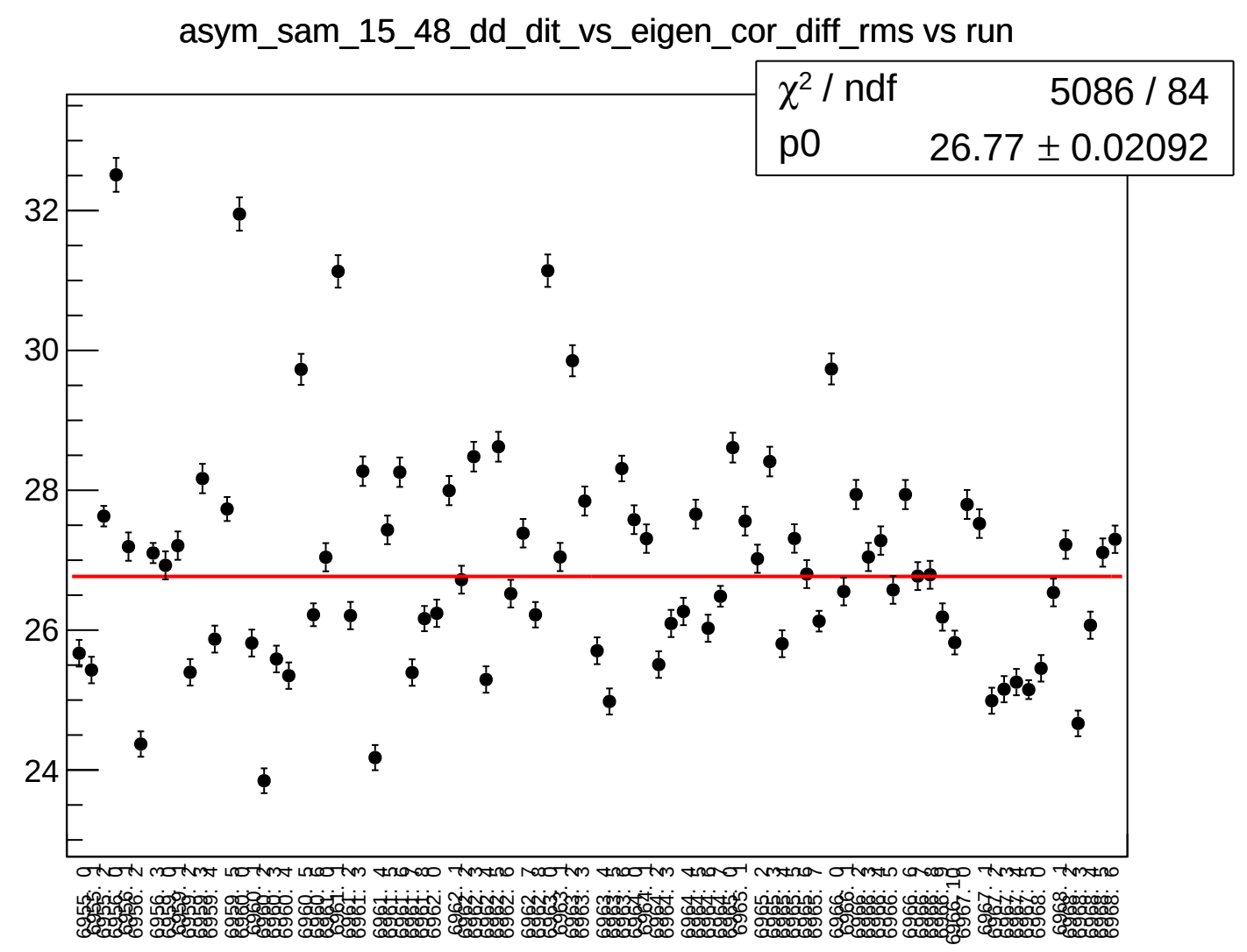

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.94 / 84
p0 −0.0265 ± 0.02958
pull
Entries 85
Mean 454.3
Std Dev 0

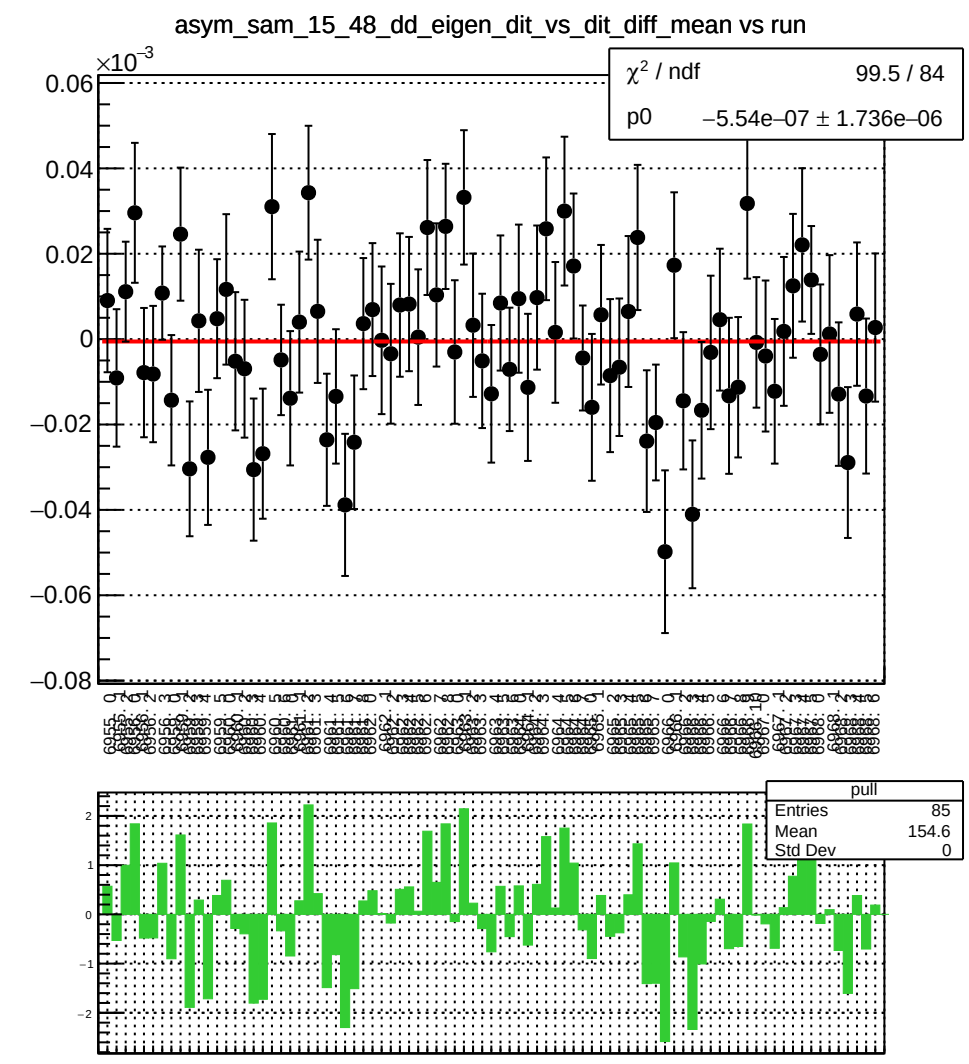

pull1D
Entries 85
Mean −0.01692
Std Dev 0.9134

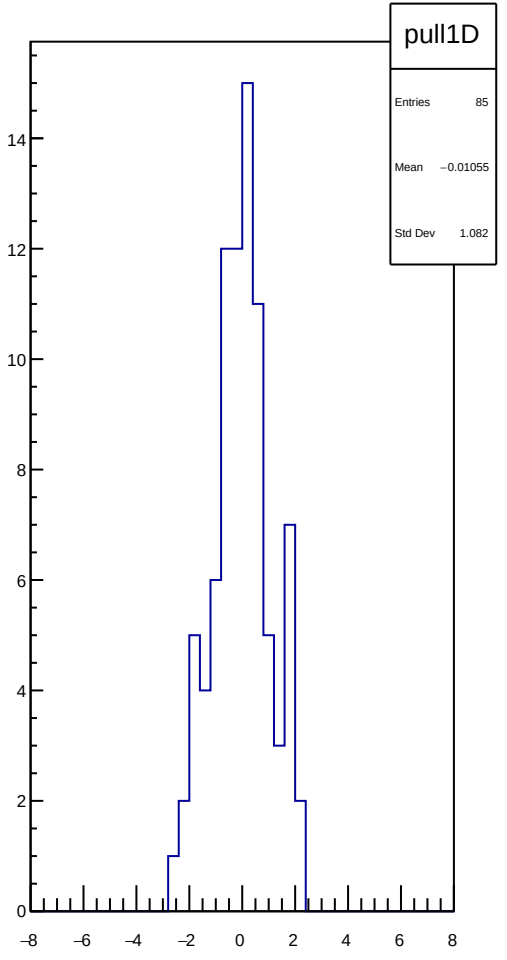

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5086 / 84
p0 26.77 ± 0.02092
32
30
28
26
24

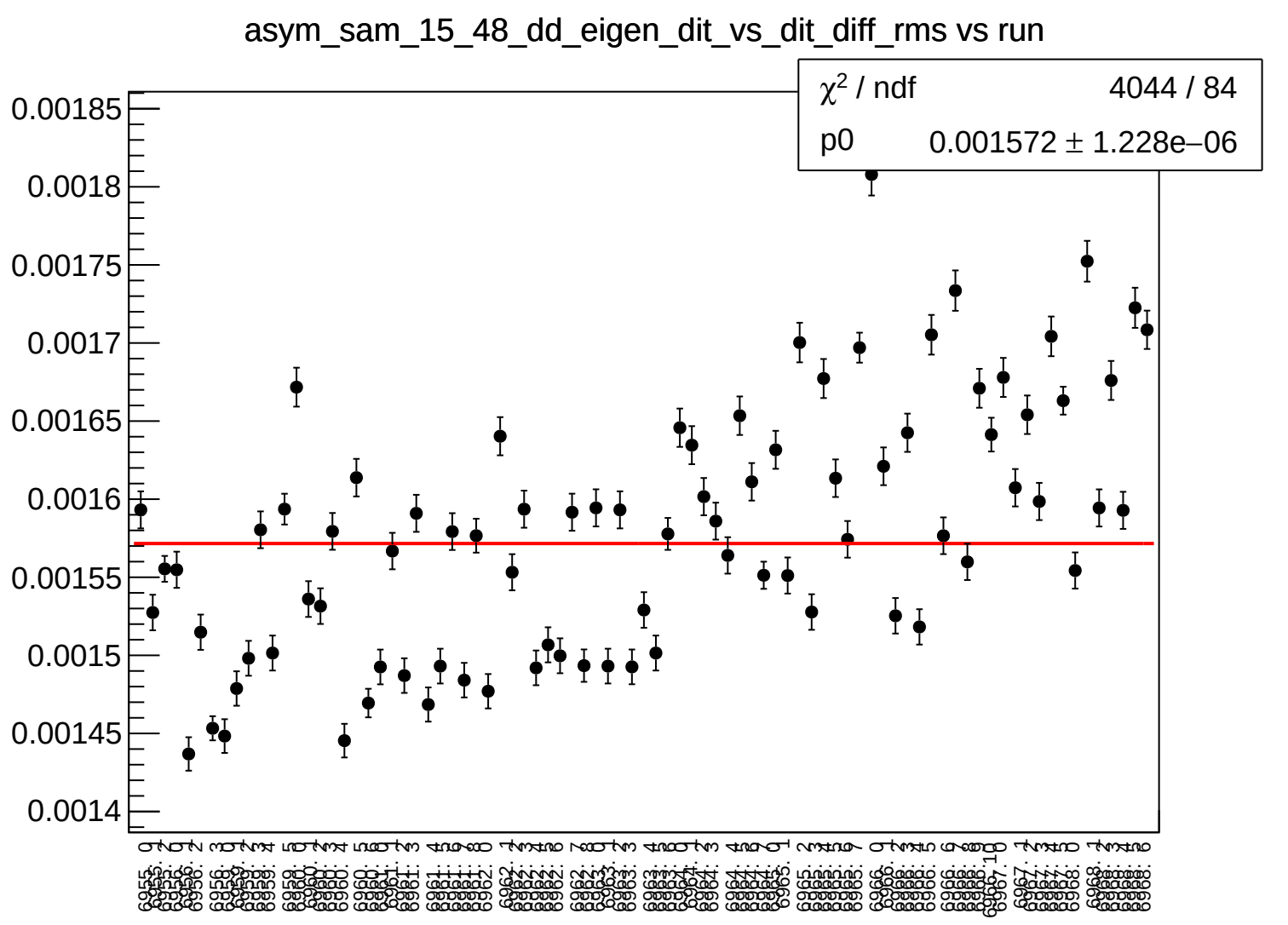

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.94 / 84
p0 −0.0265 ± 0.02958
pull
Entries 85
Mean 454.3
Std Dev 0

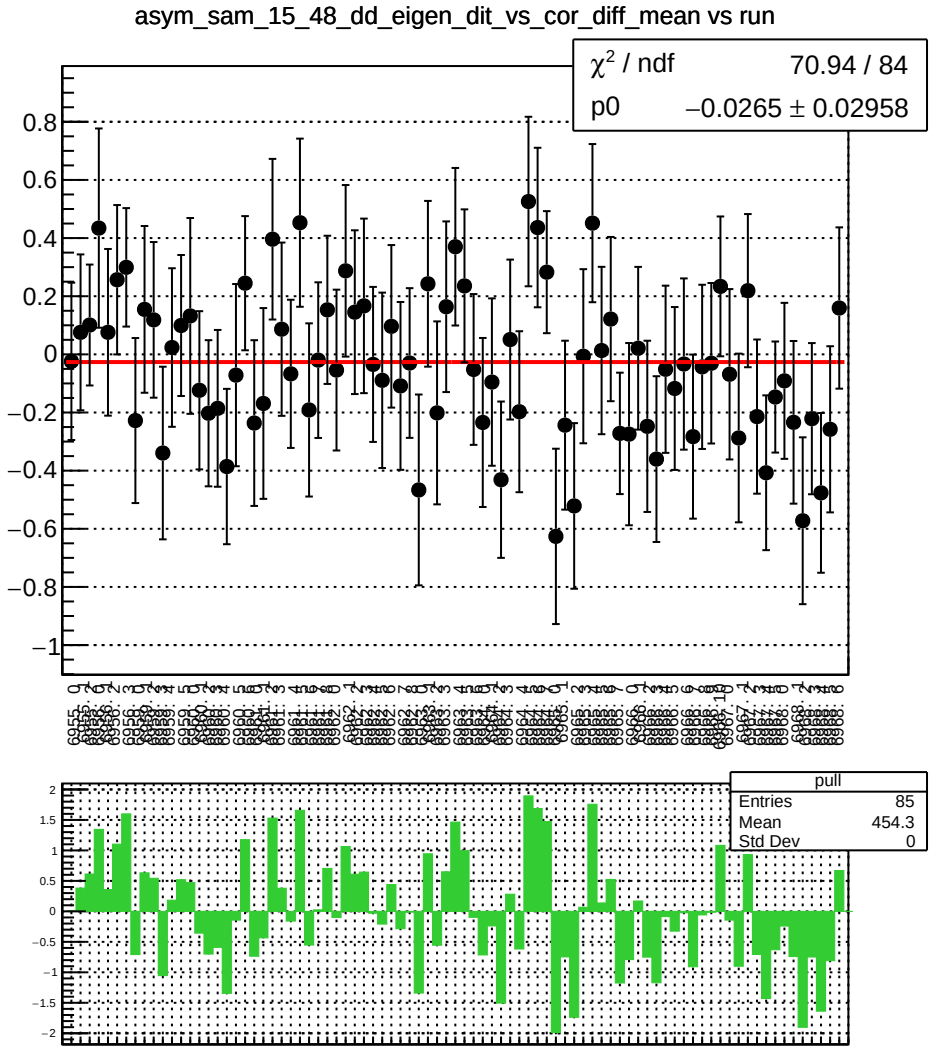

pull1D
Entries 85
Mean −0.01692
Std Dev 0.9134

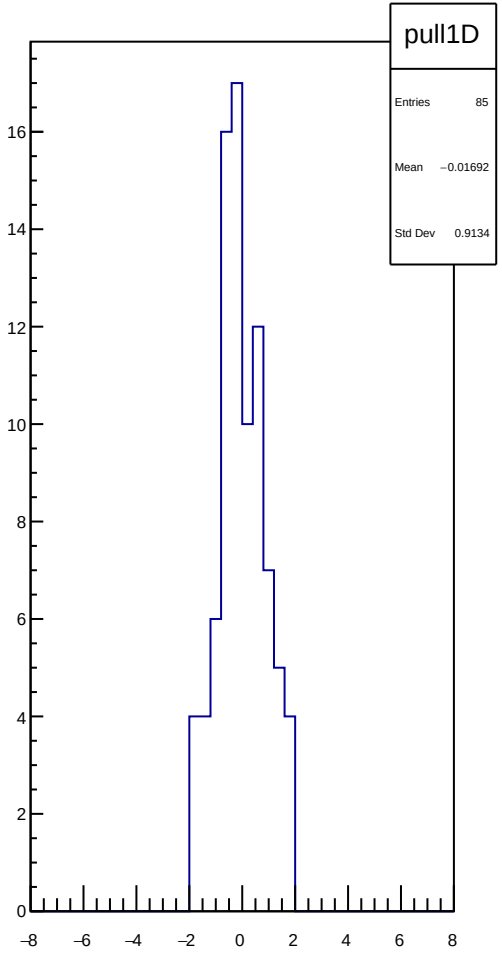

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5086 / 84
p0 26.77 ± 0.02092
32
30
28
26
24

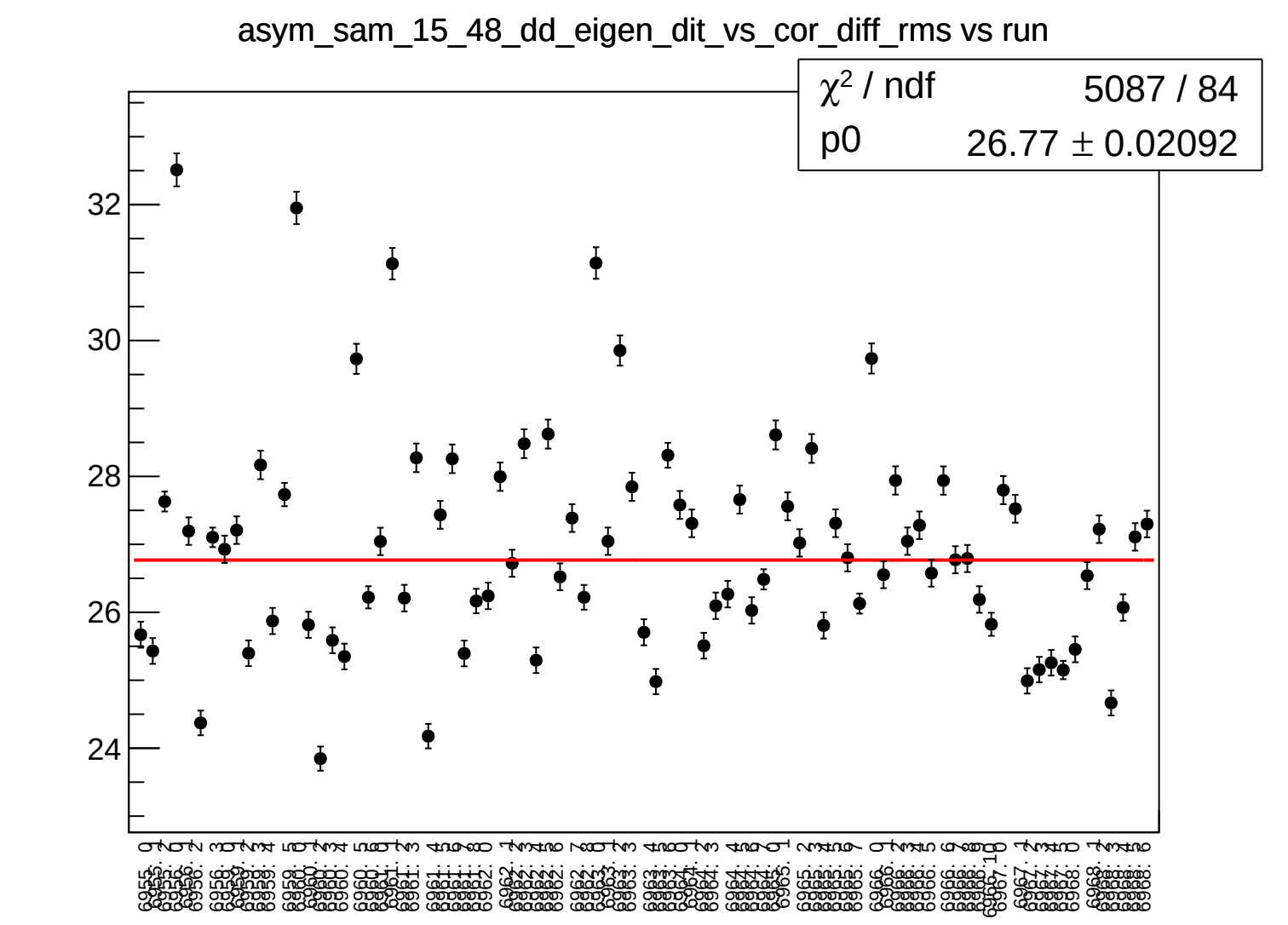

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.5 / 84
p0 −5.54e−07 ± 1.736e−06
pull
Entries 85
Mean 154.6
Std Dev 0

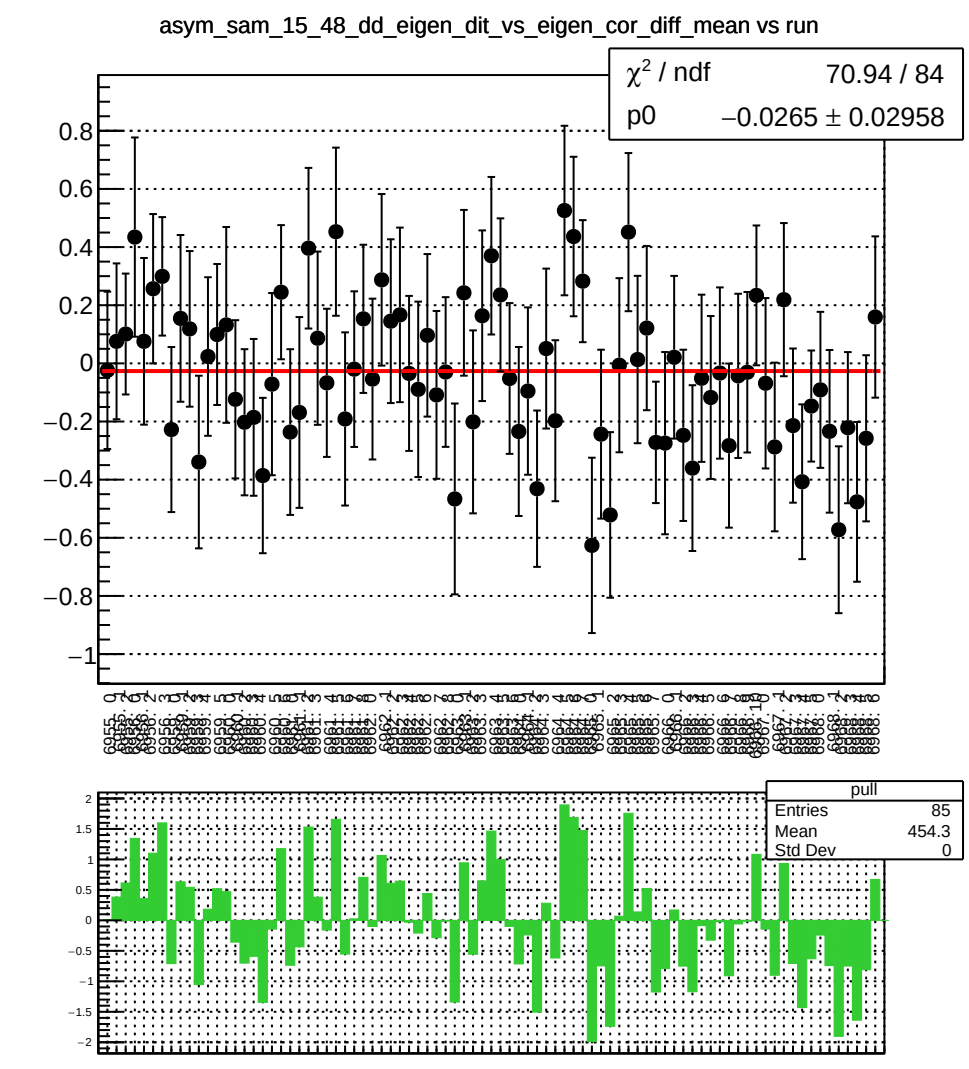

pull1D
Entries 85
Mean −0.01055
Std Dev 1.082

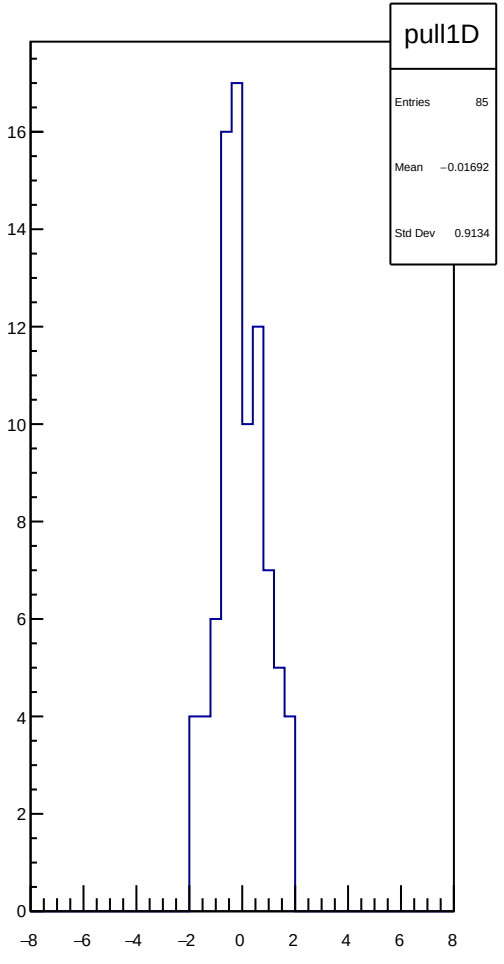

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4044 / 84
p0 0.001572 ± 1.228e−06
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014

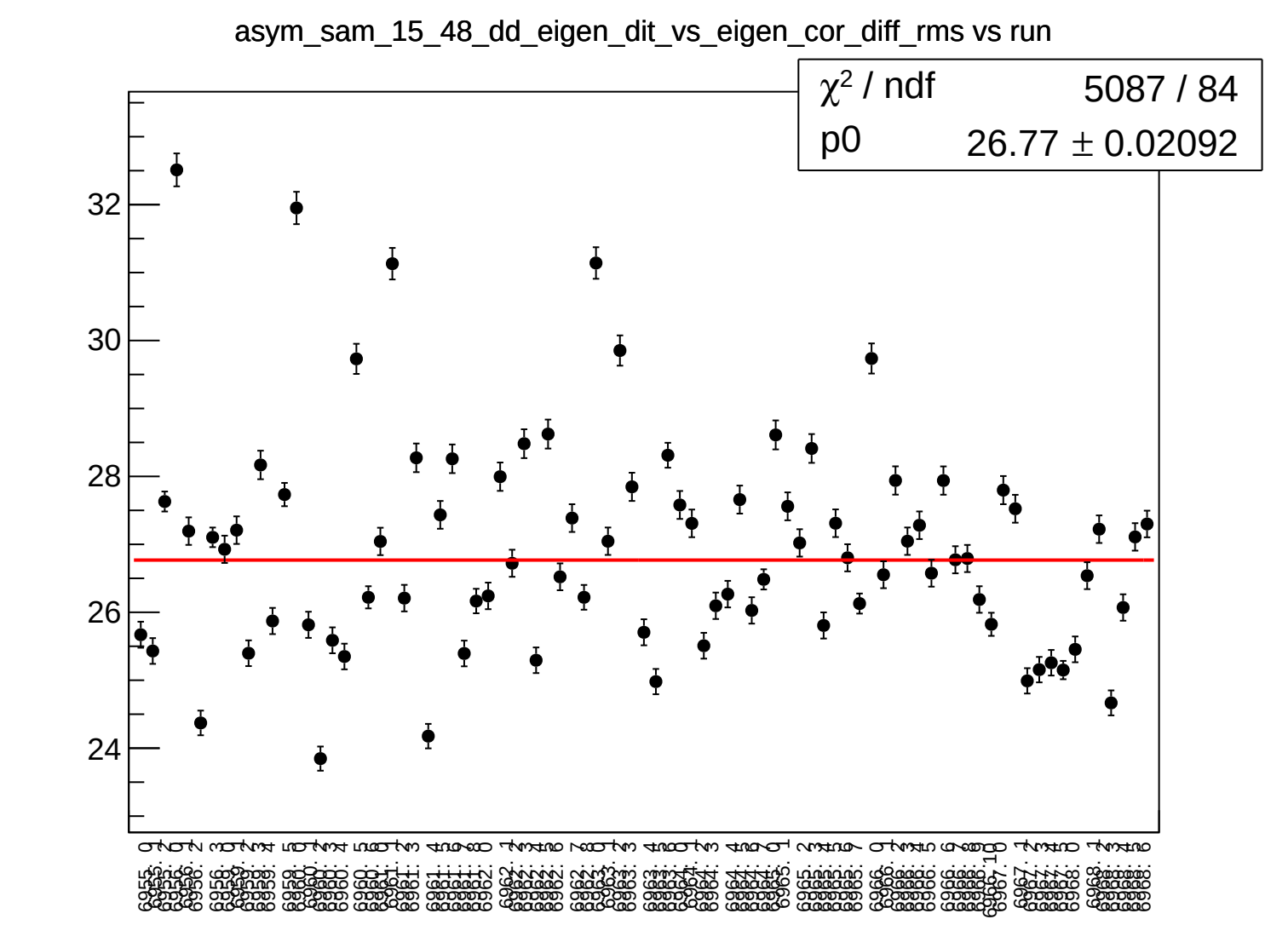

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.94 / 84
p0 −0.0265 ± 0.02958
pull
Entries 85
Mean 454.3
Std Dev 0

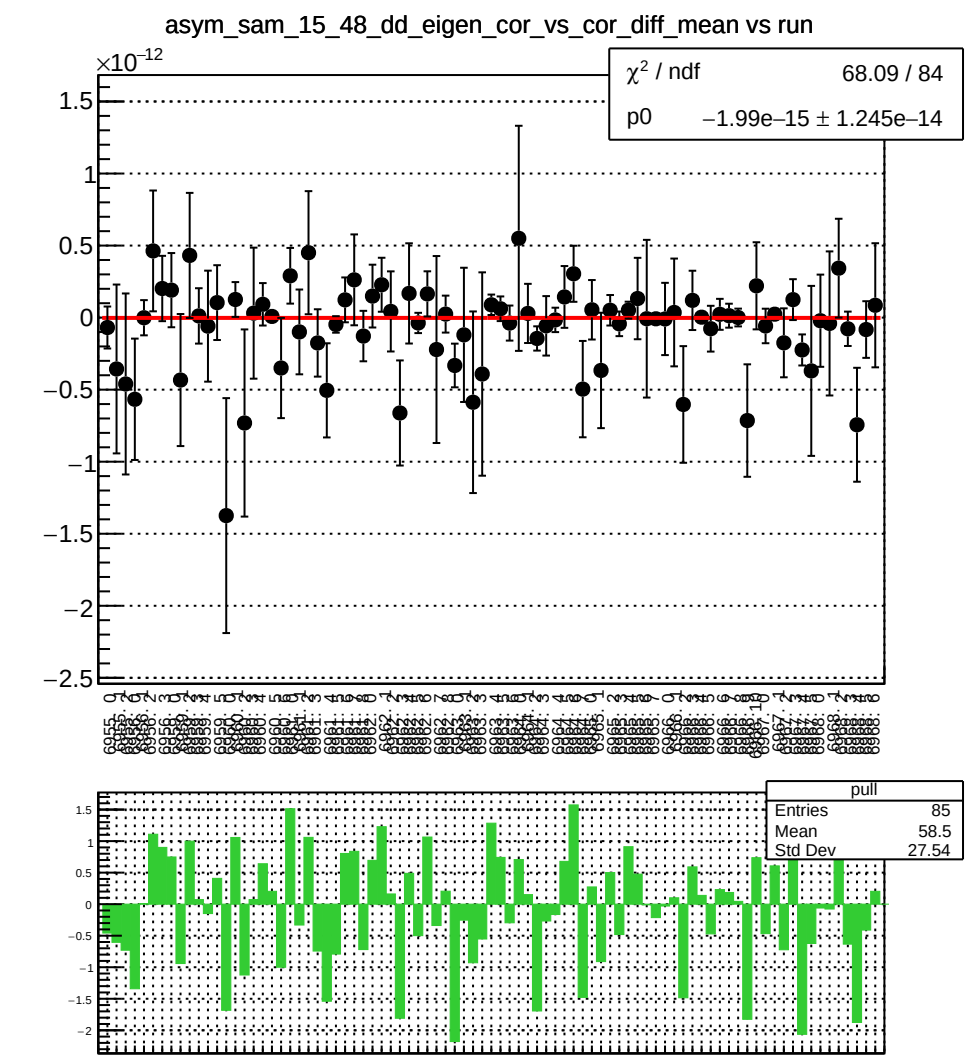

pull1D
Entries 85
Mean −0.01692
Std Dev 0.9134

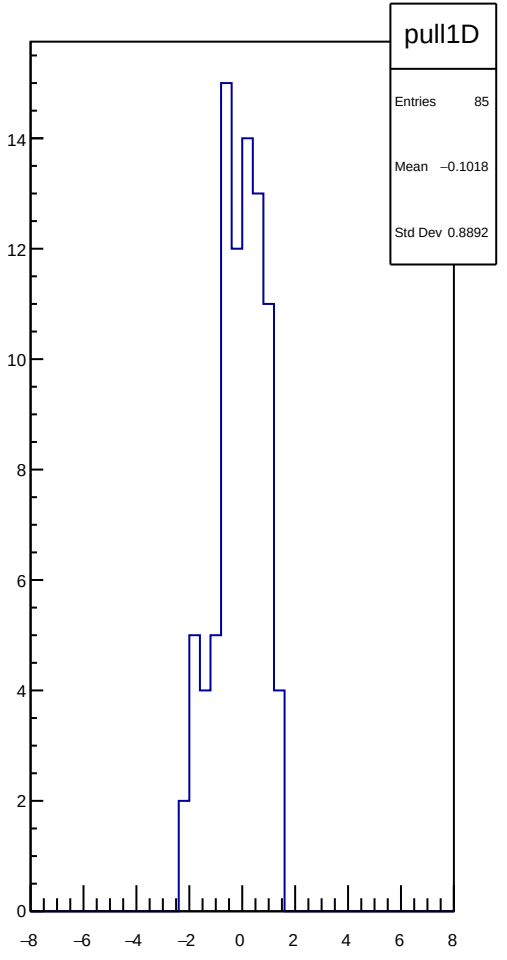

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5087 / 84
p0 26.77 ± 0.02092
32
30
28
26
24

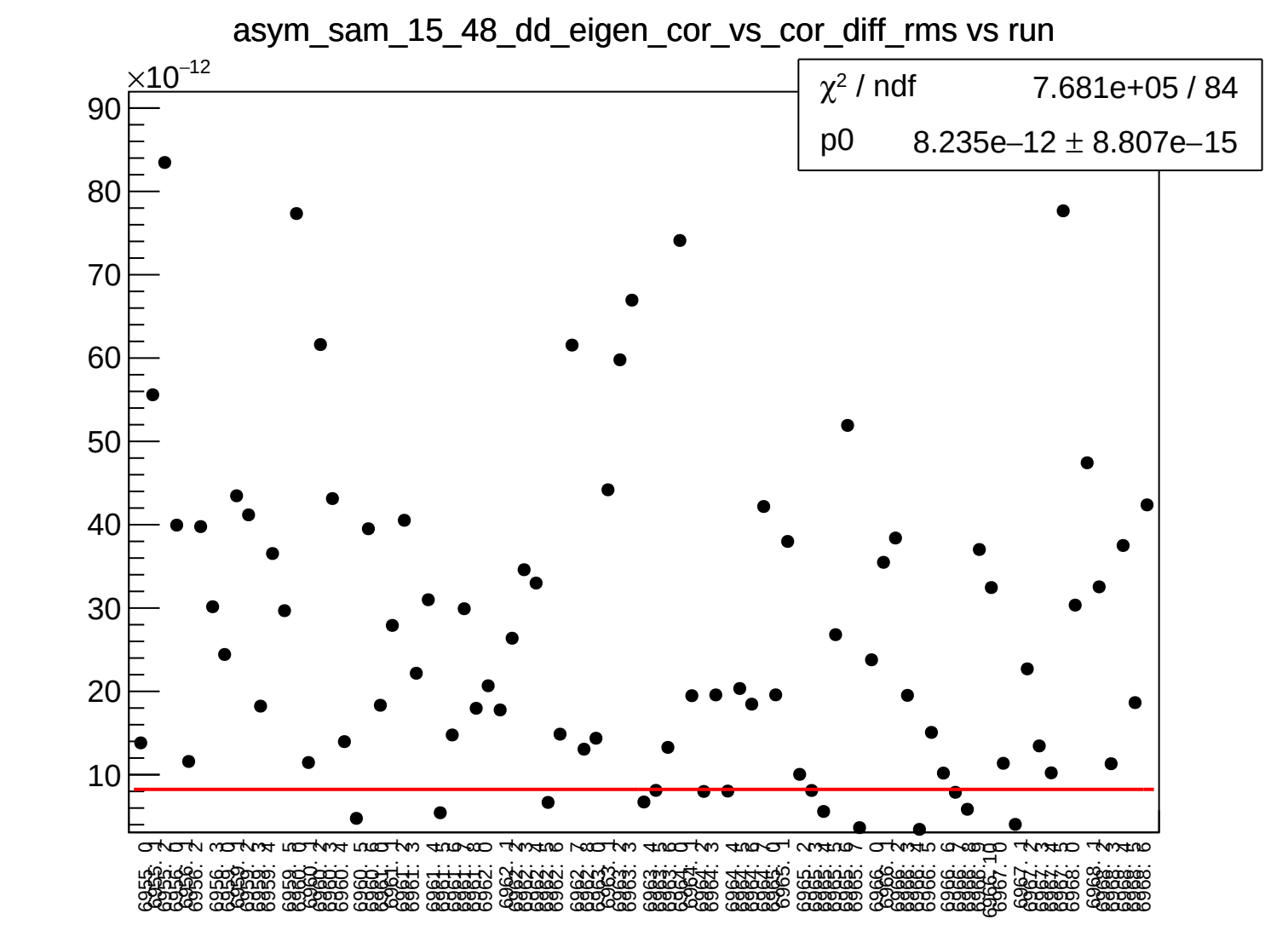

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.94 / 84
p0 −0.0265 ± 0.02958
pull
Entries 85
Mean 454.3
Std Dev 0

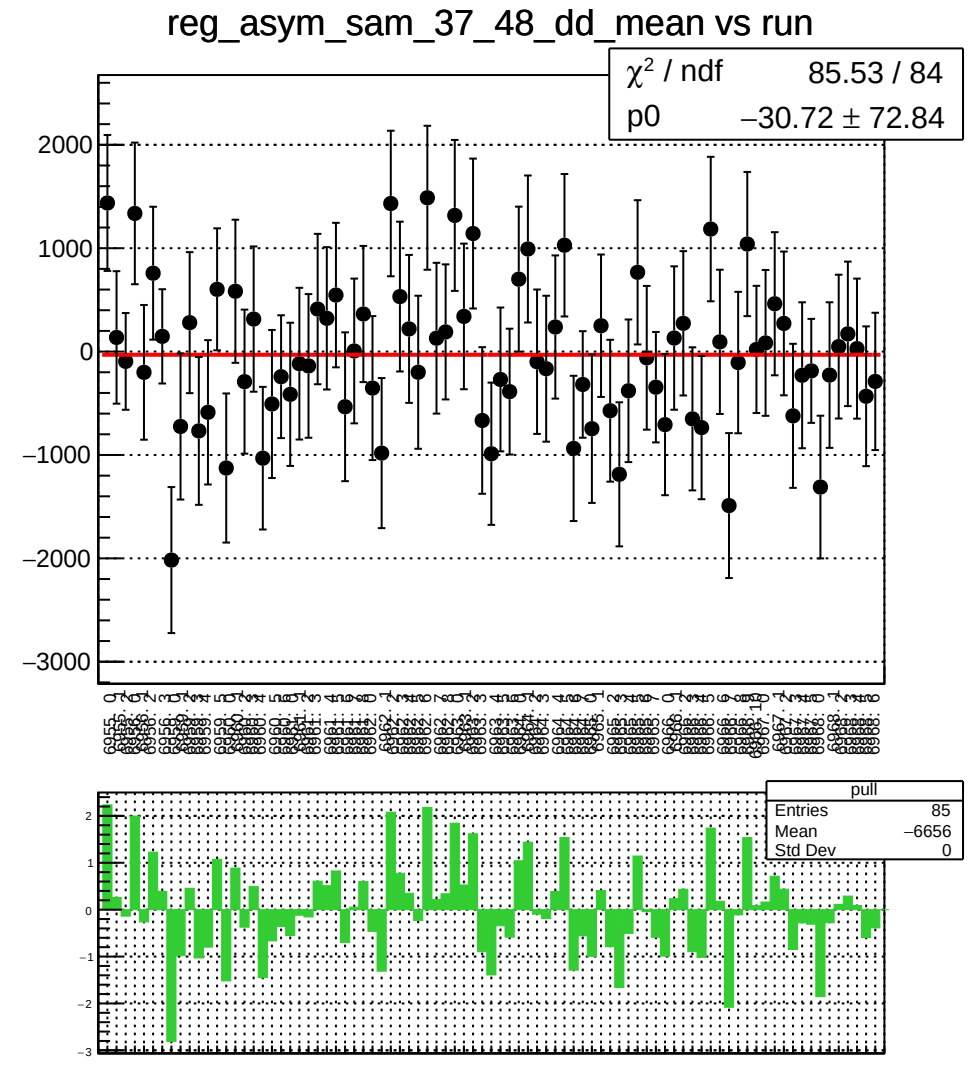

pull1D
Entries 85
Mean −0.01692
Std Dev 0.9134

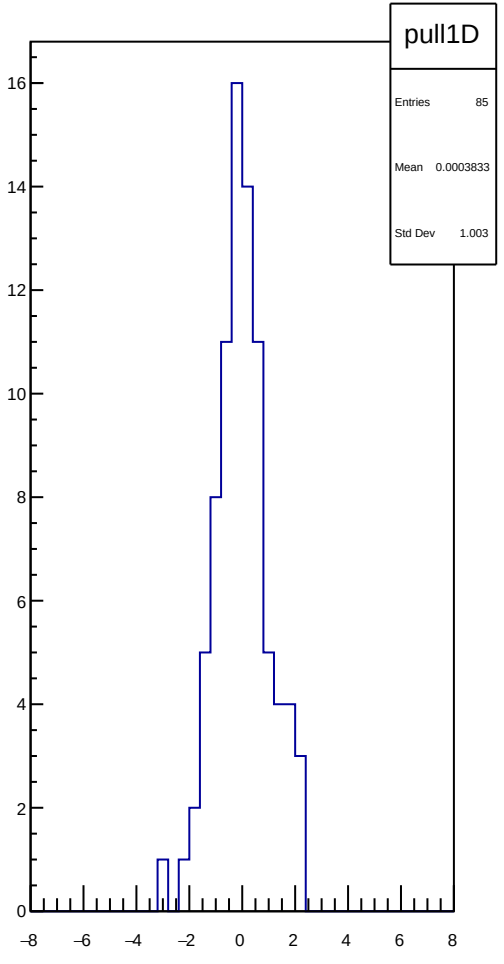

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5087 / 84
p0 26.77 ± 0.02092
32
30
28
26
24

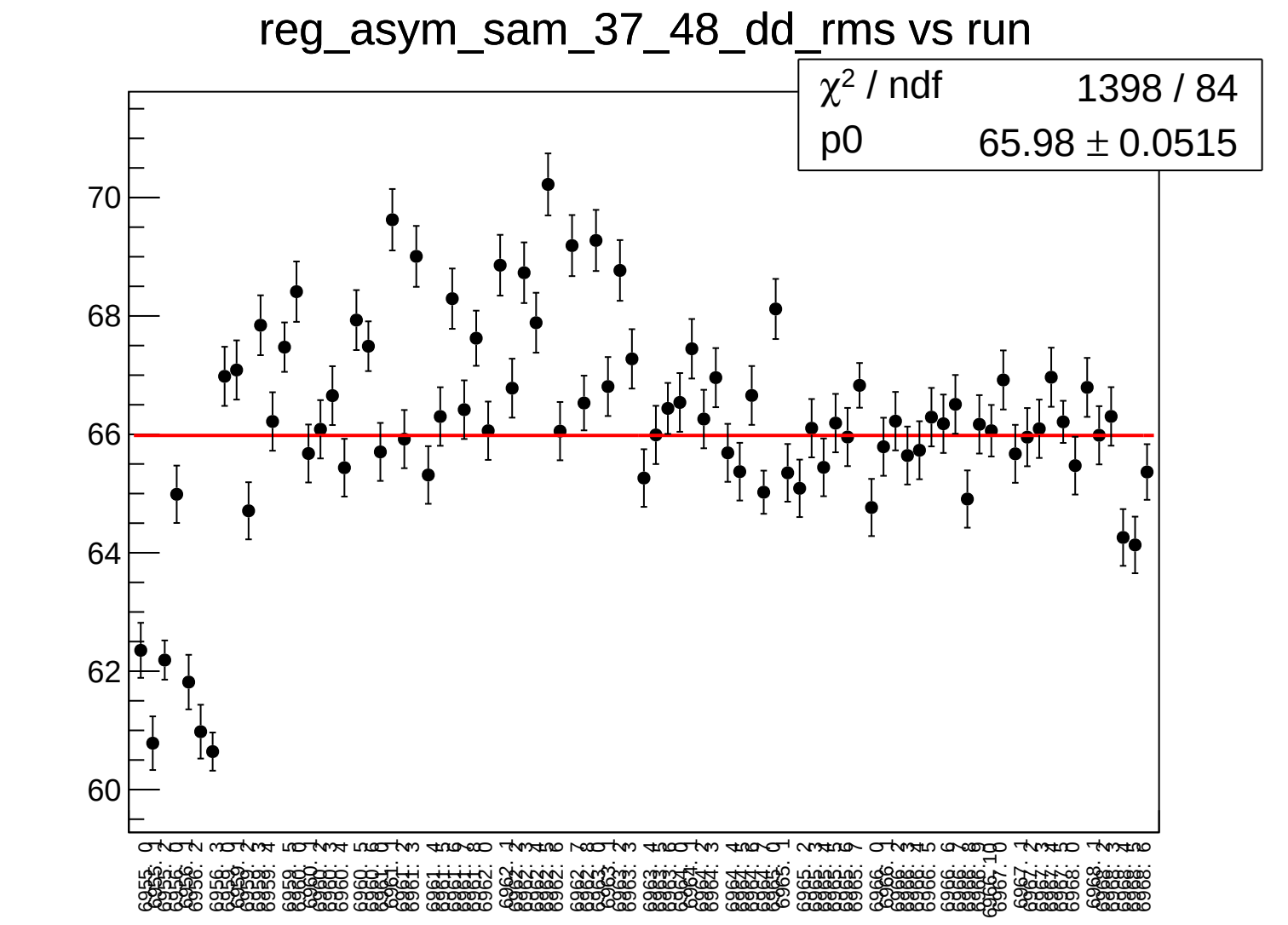

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.09 / 84
p0 −1.99e−15 ± 1.245e−14
pull
Entries 85
Mean 58.5
Std Dev 27.54

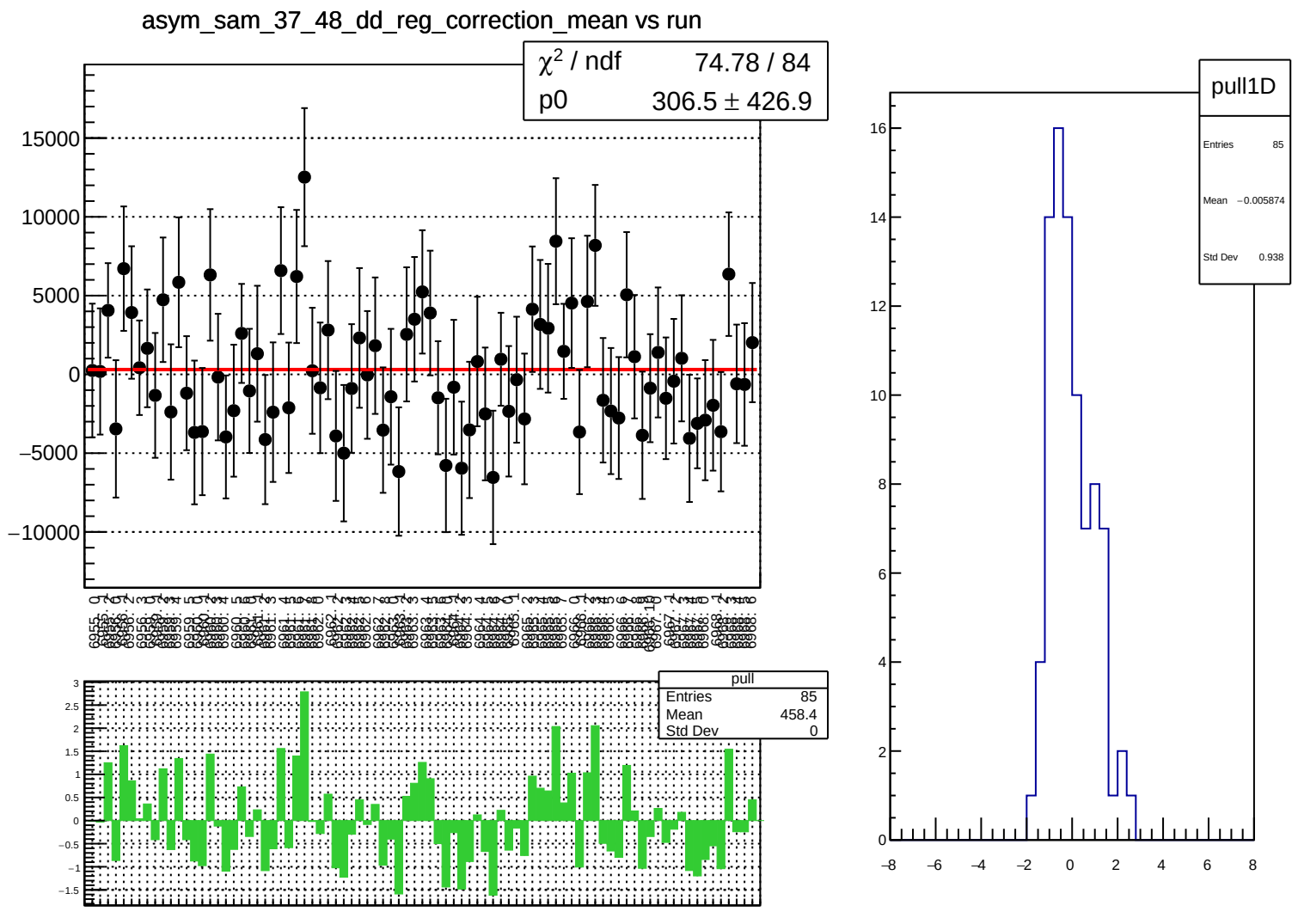

pull1D
Entries 85
Mean −0.1018
Std Dev 0.8892

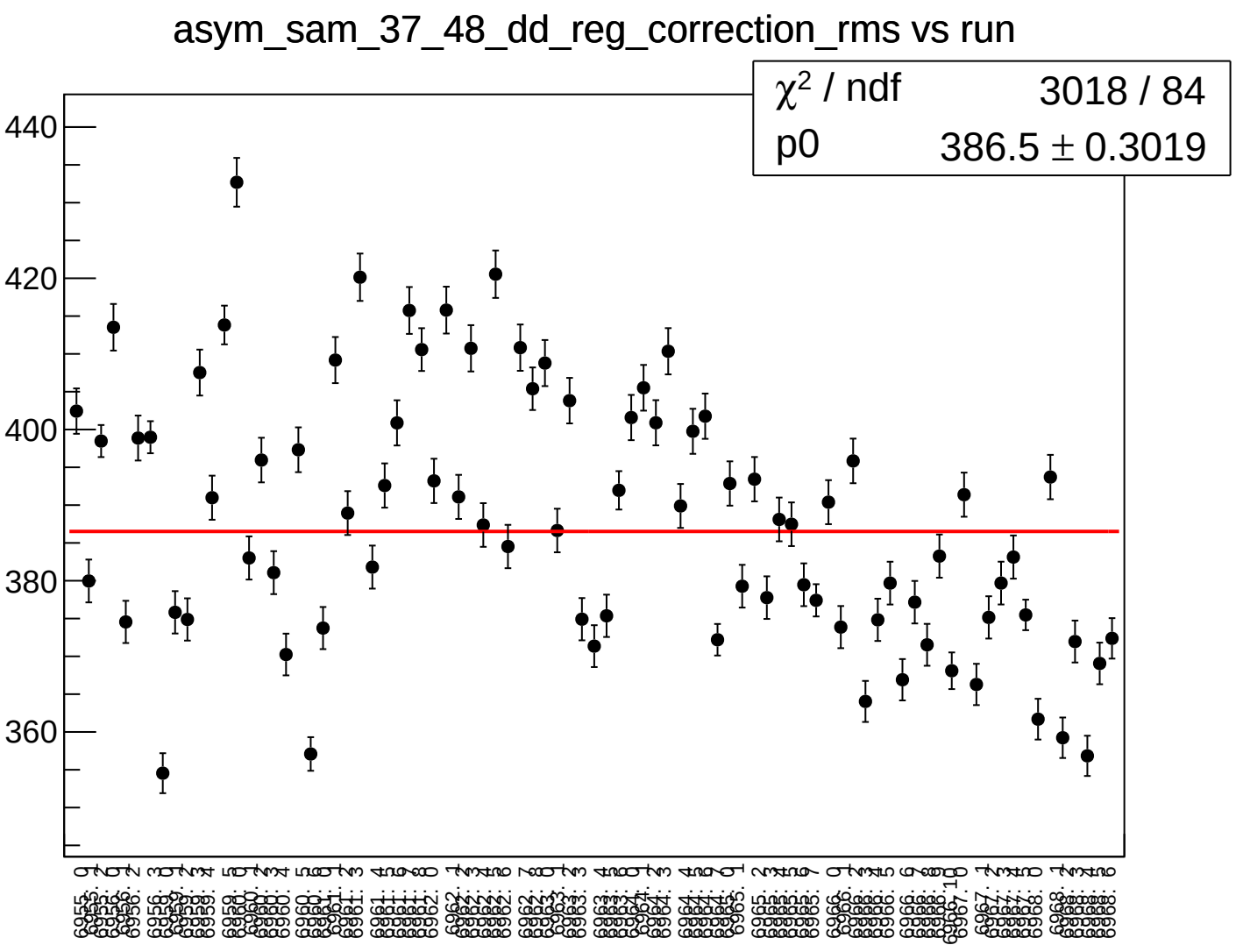

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
90
80
70
60
50
40
30
20
10
χ² / ndf 7.681e+05 / 84
p0 8.235e−12 ± 8.807e−15

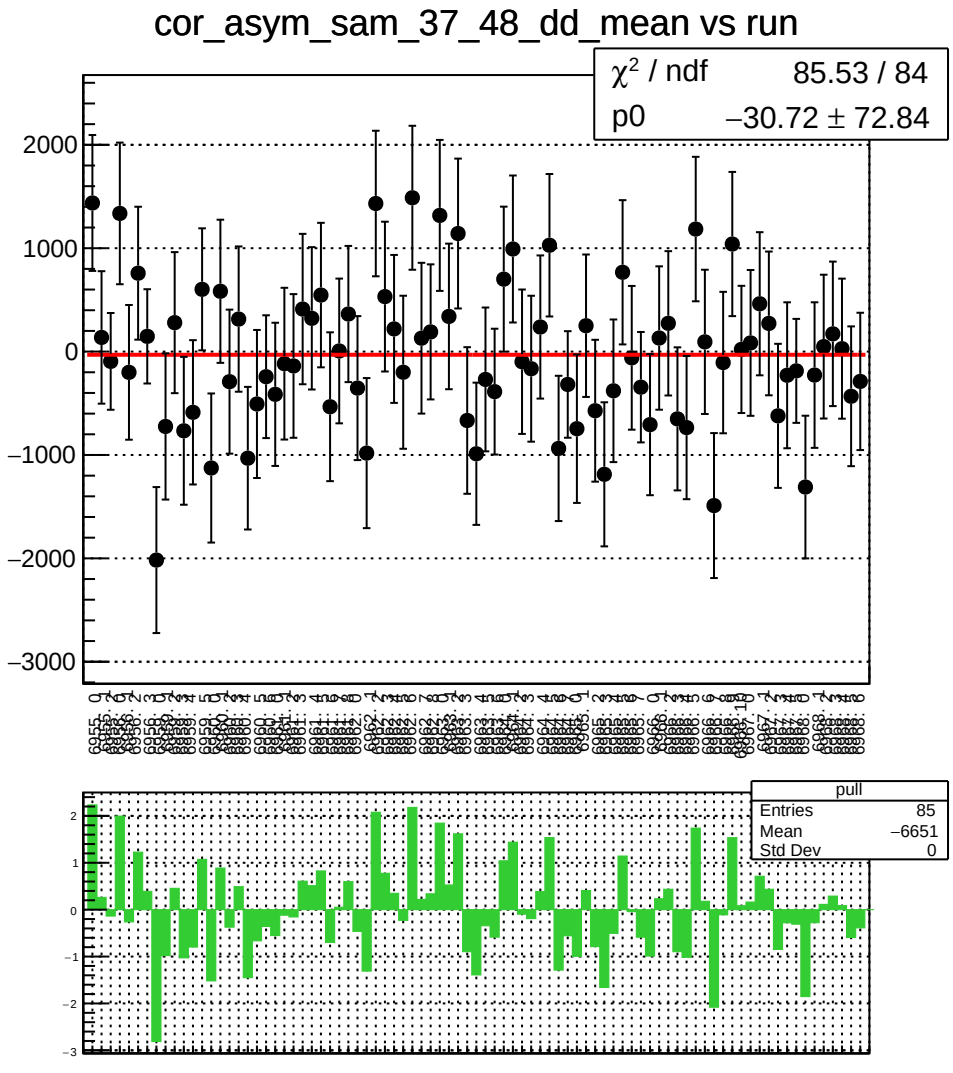

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 85.53 / 84
p0 −30.72 ± 72.84
pull
Entries 85
Mean −6656
Std Dev 0

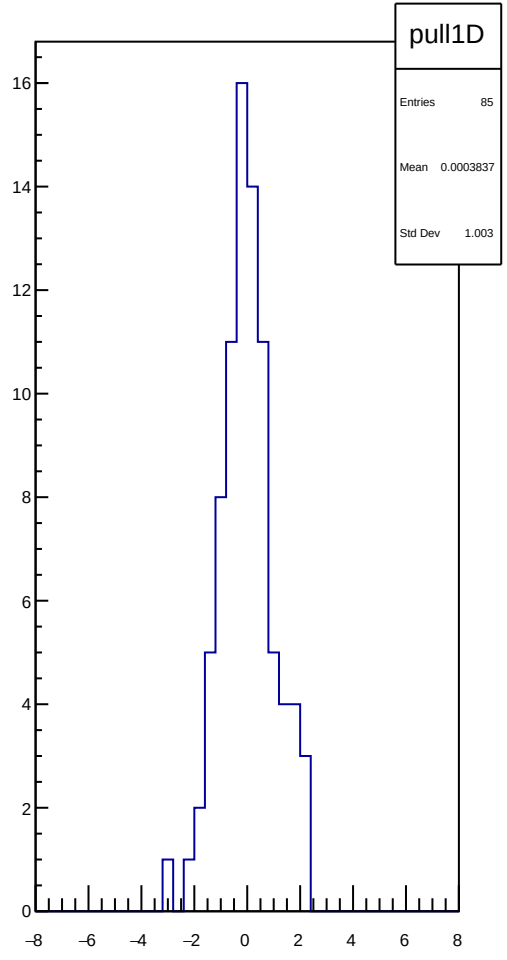

pull1D
Entries 85
Mean 0.0003833
Std Dev 1.003

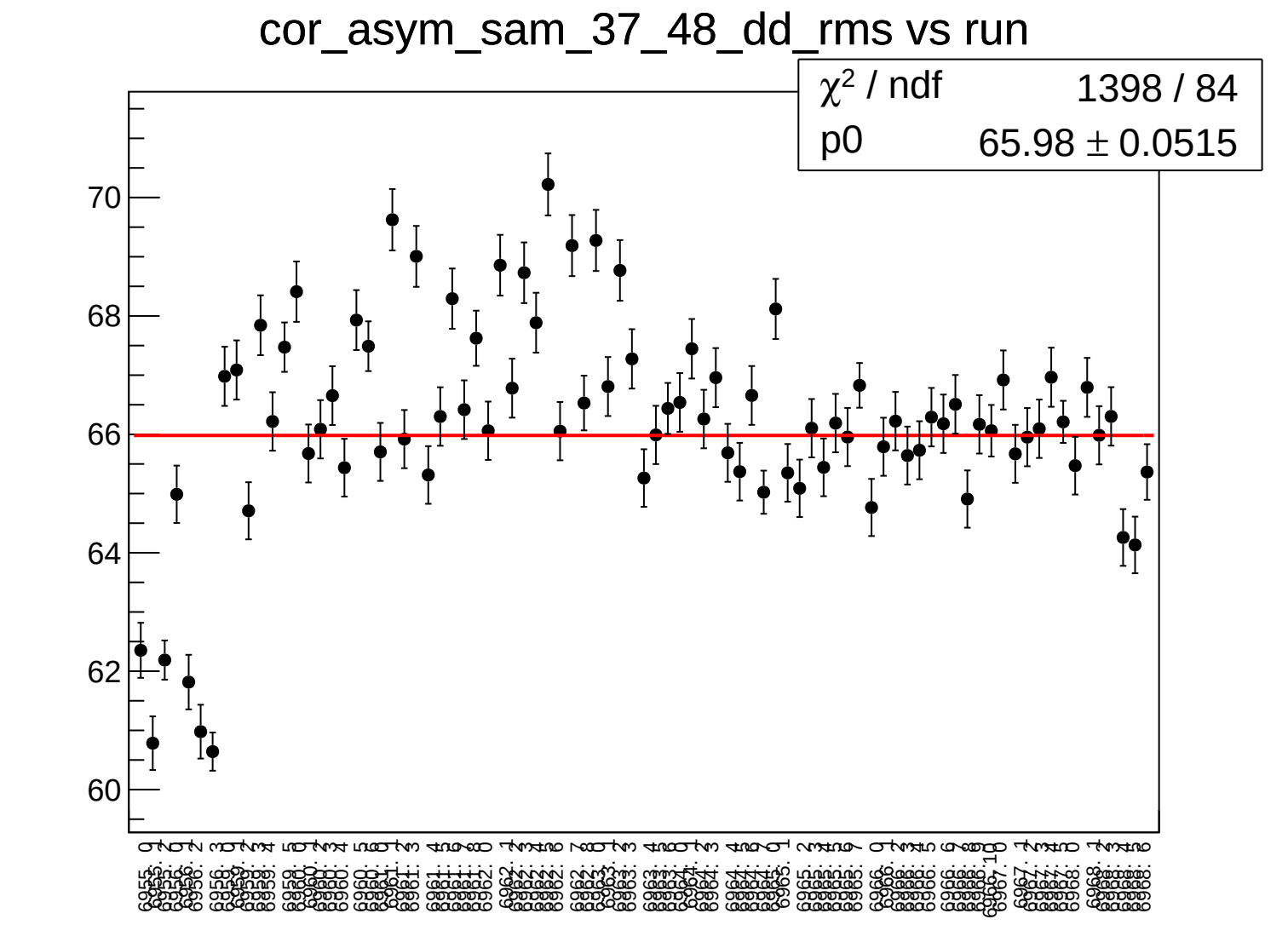

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1398 / 84
p0 65.98 ± 0.0515
70
68
66
64
62
60

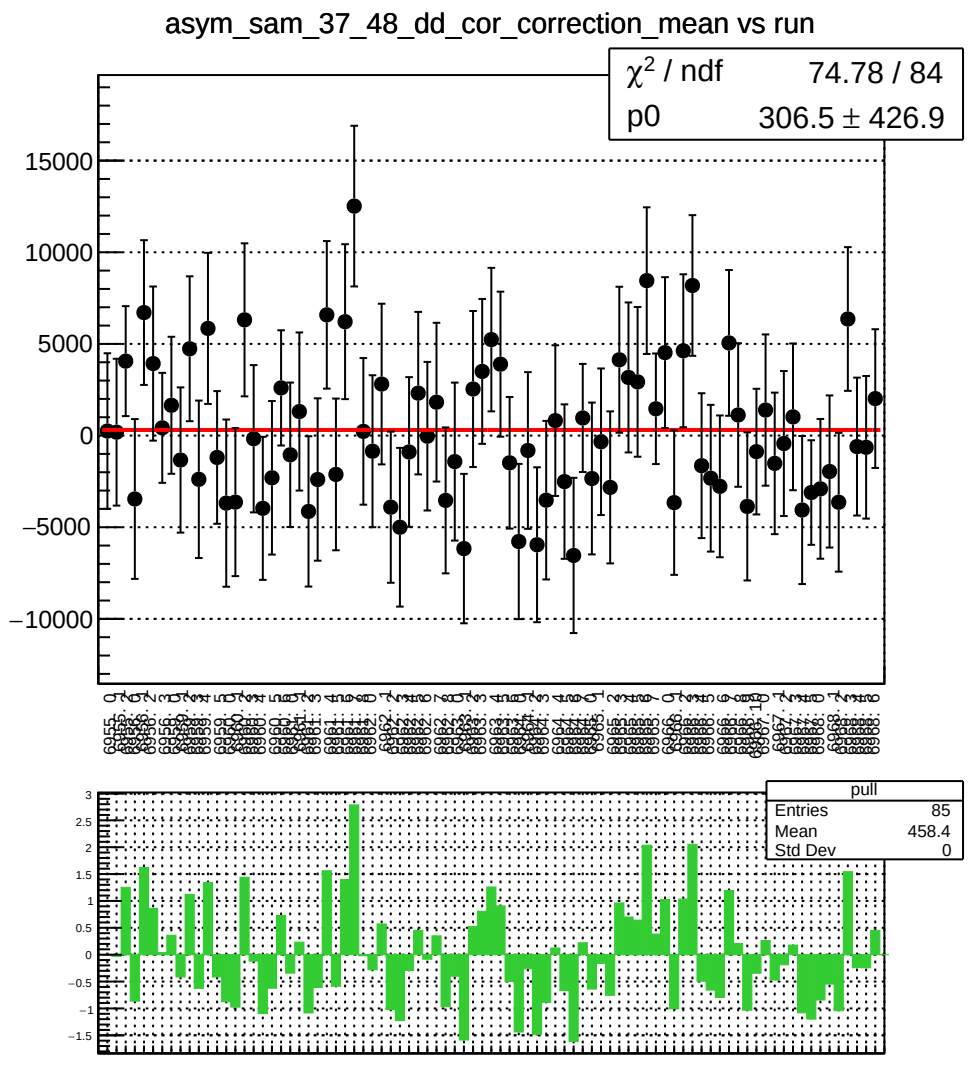

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 74.78 / 84
p0 306.5 ± 426.9
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 458.4
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.005874
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

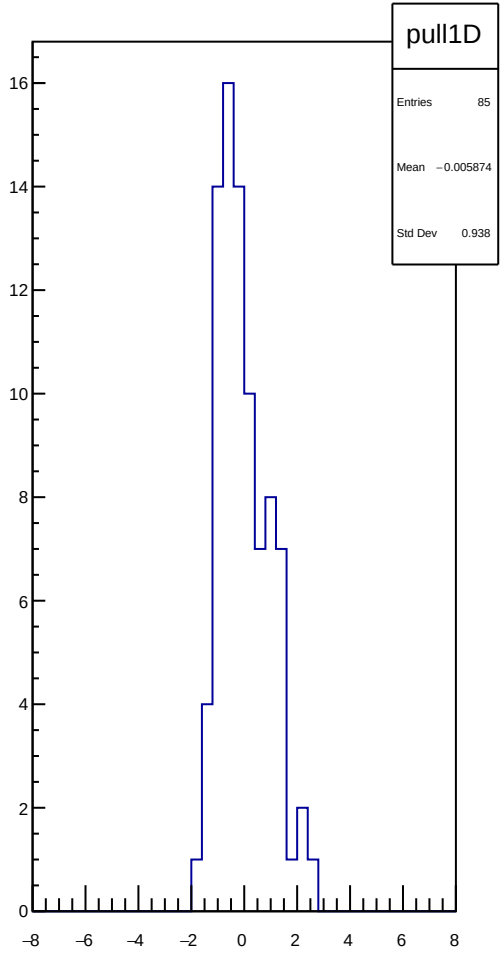

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 3018 / 84
p0 386.5 ± 0.3019
440
420
400
380
360

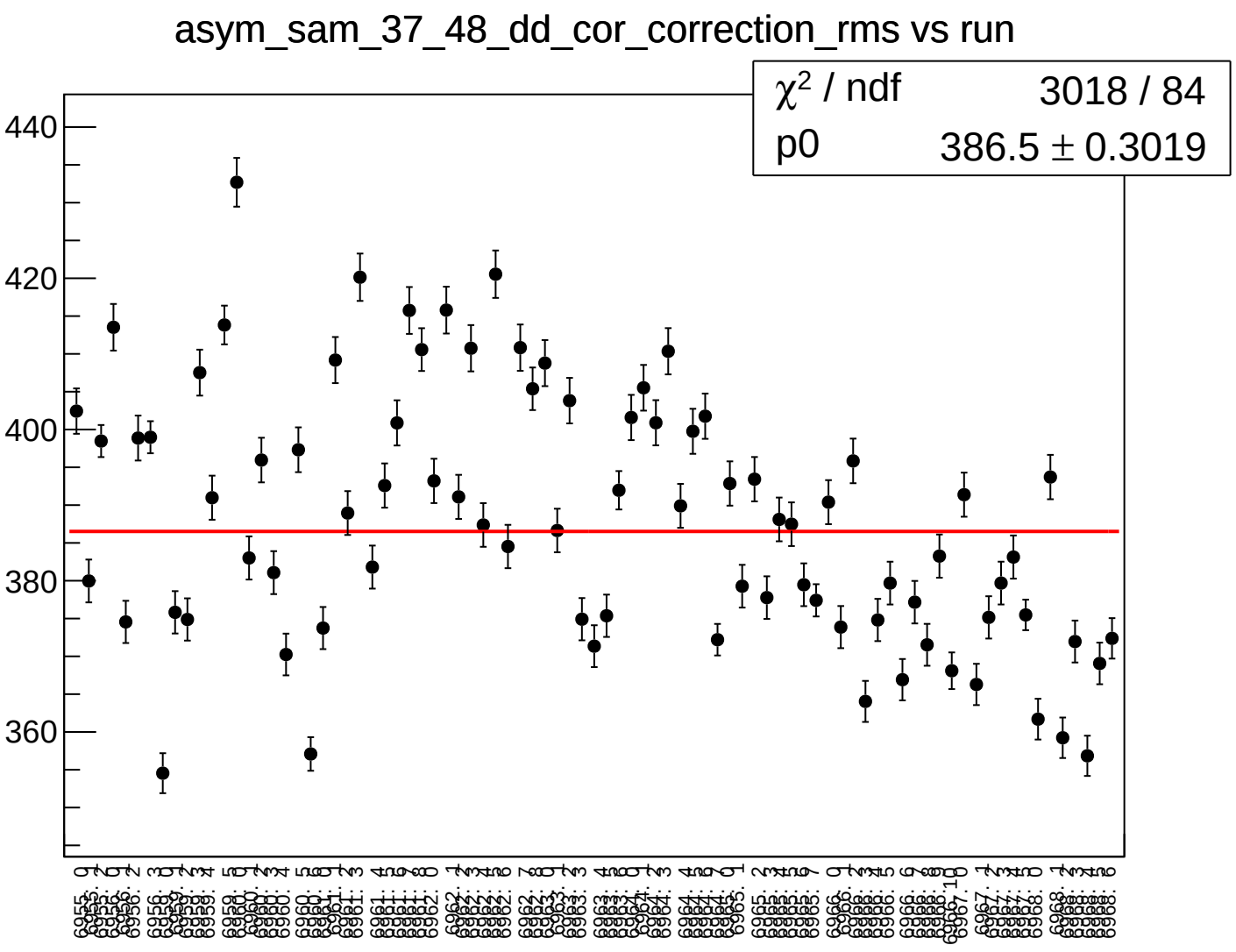

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 85.53 / 84
p0 −30.72 ± 72.84
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −6651
Std Dev 0
2
1
0
−1
−2
−3

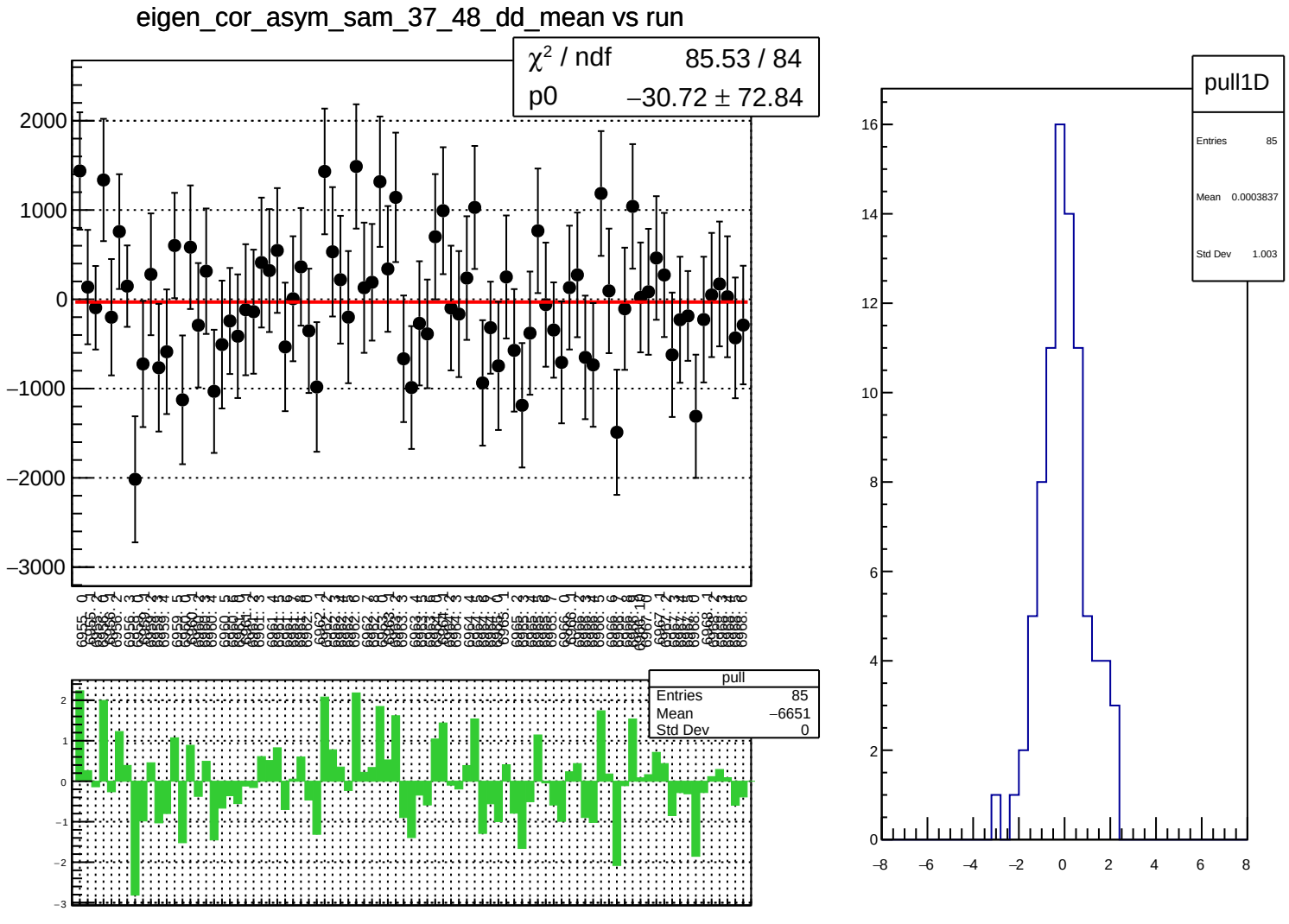

pull1D
Entries 85
Mean 0.0003837
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

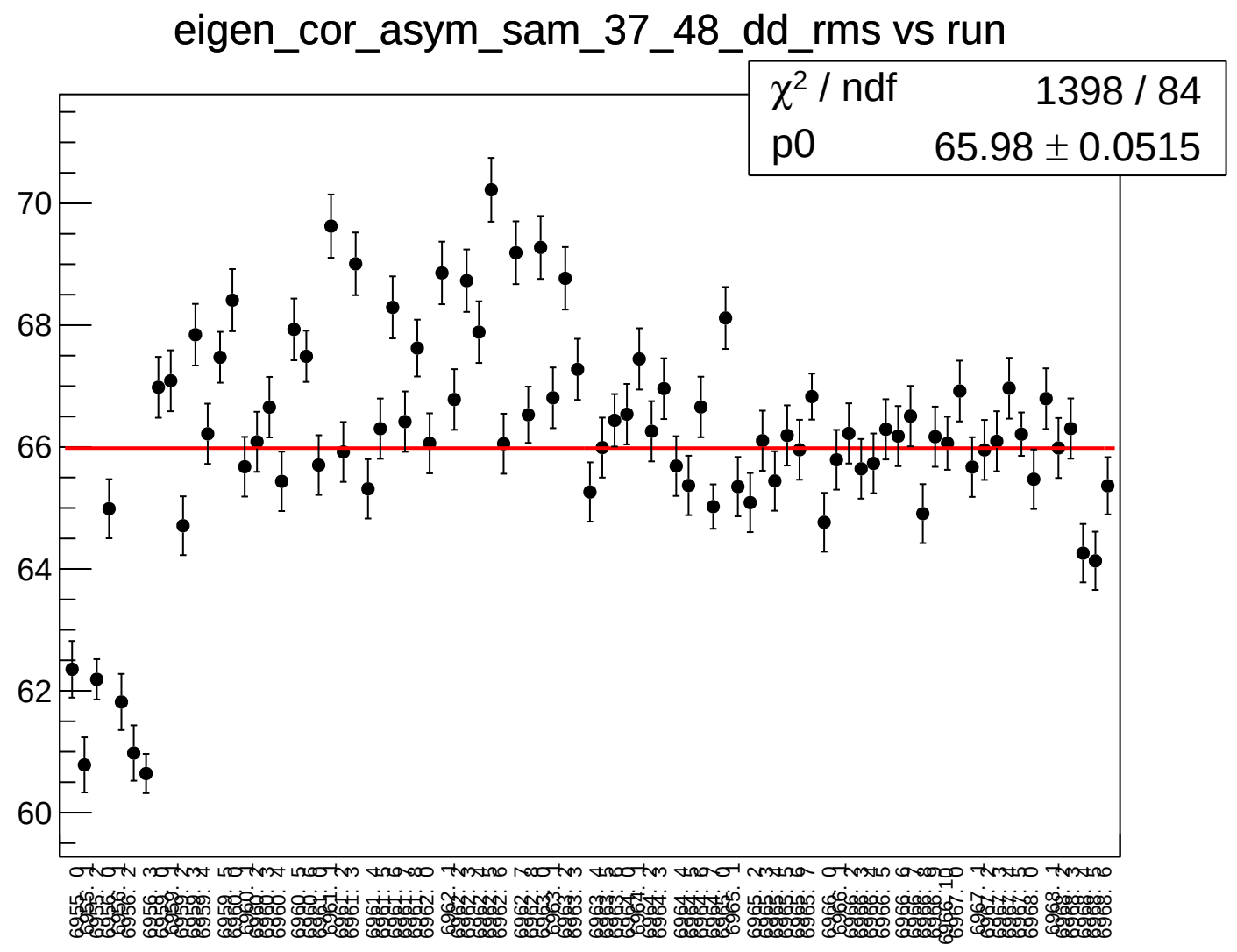

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1398 / 84
p0 65.98 ± 0.0515
70
68
66
64
62
60

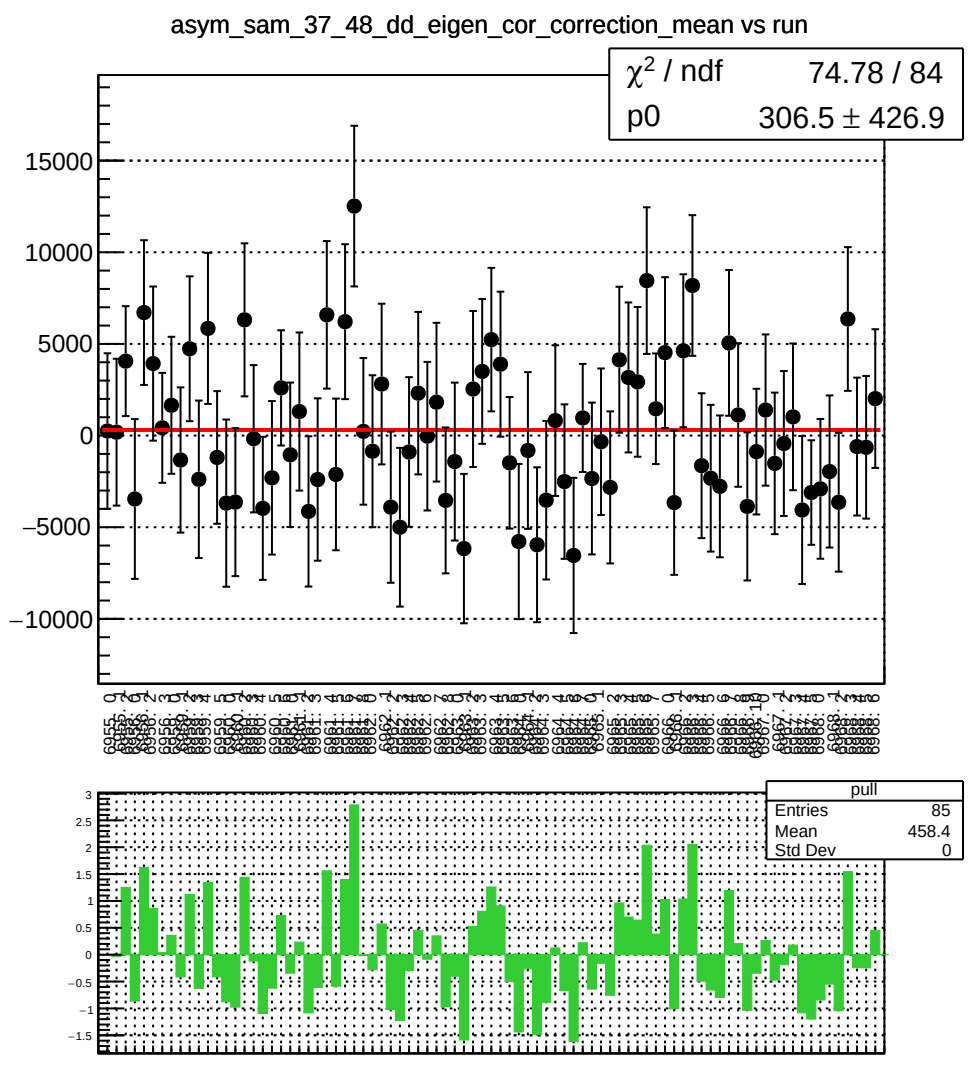

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 74.78 / 84
p0 306.5 ± 426.9
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 458.4
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

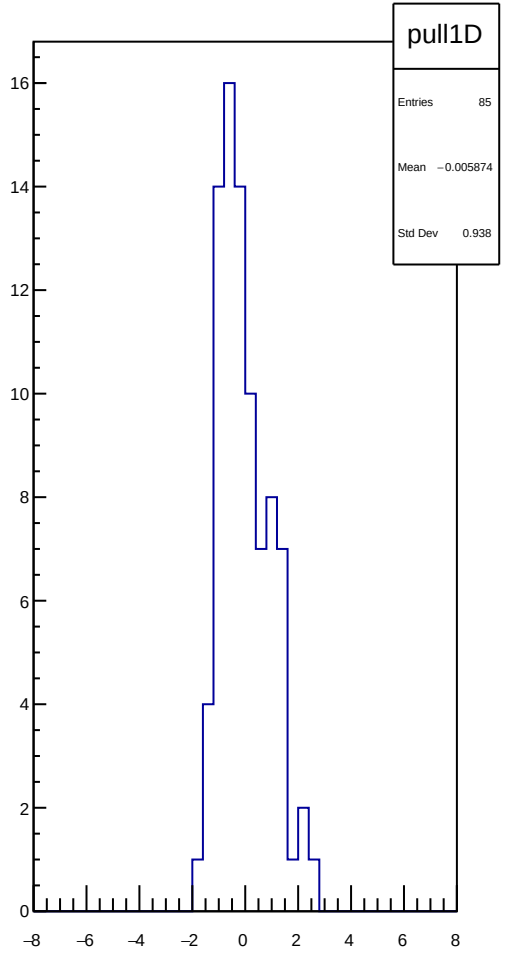

pull1D
Entries 85
Mean −0.005874
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

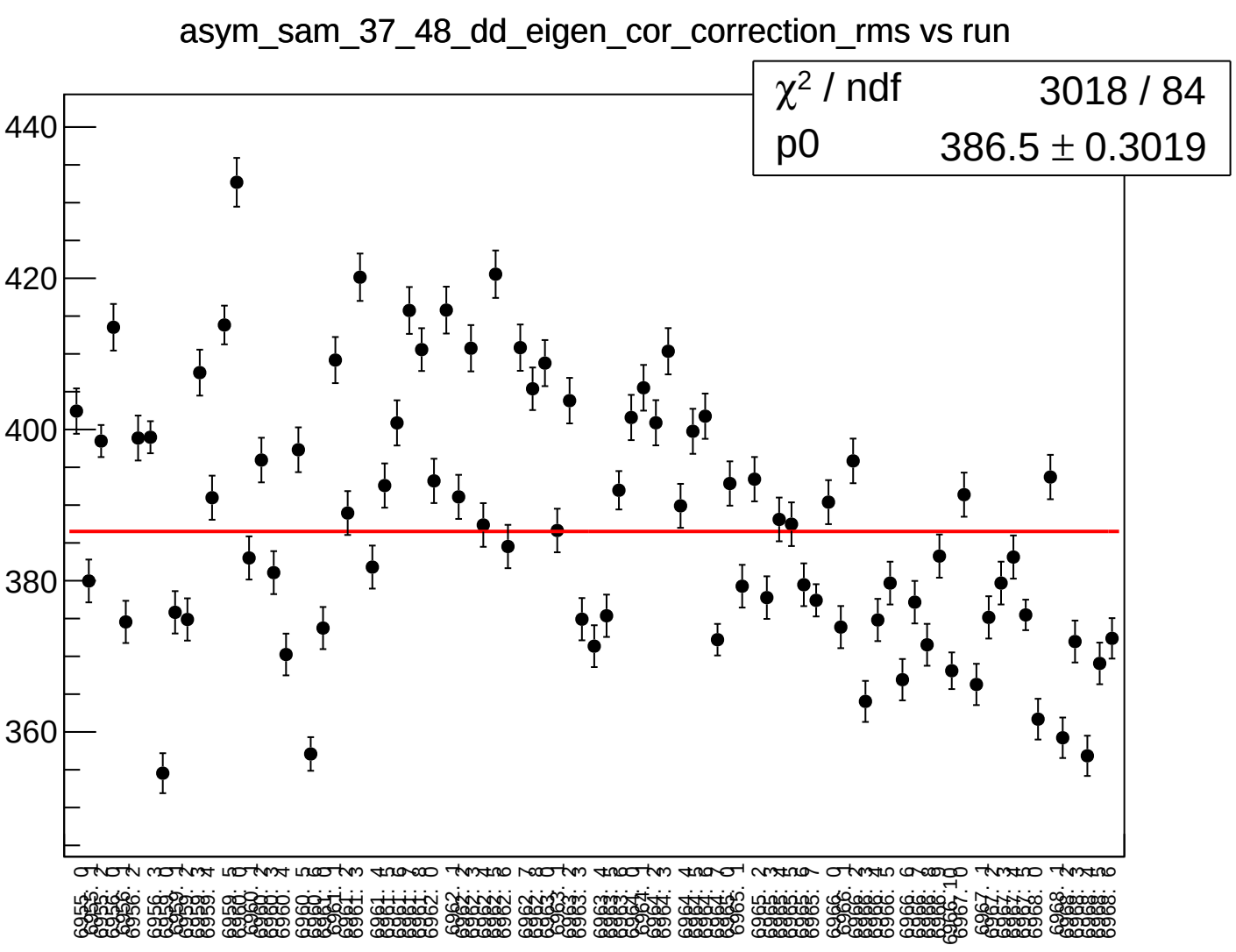

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 3018 / 84
p0 386.5 ± 0.3019
440
420
400
380
360

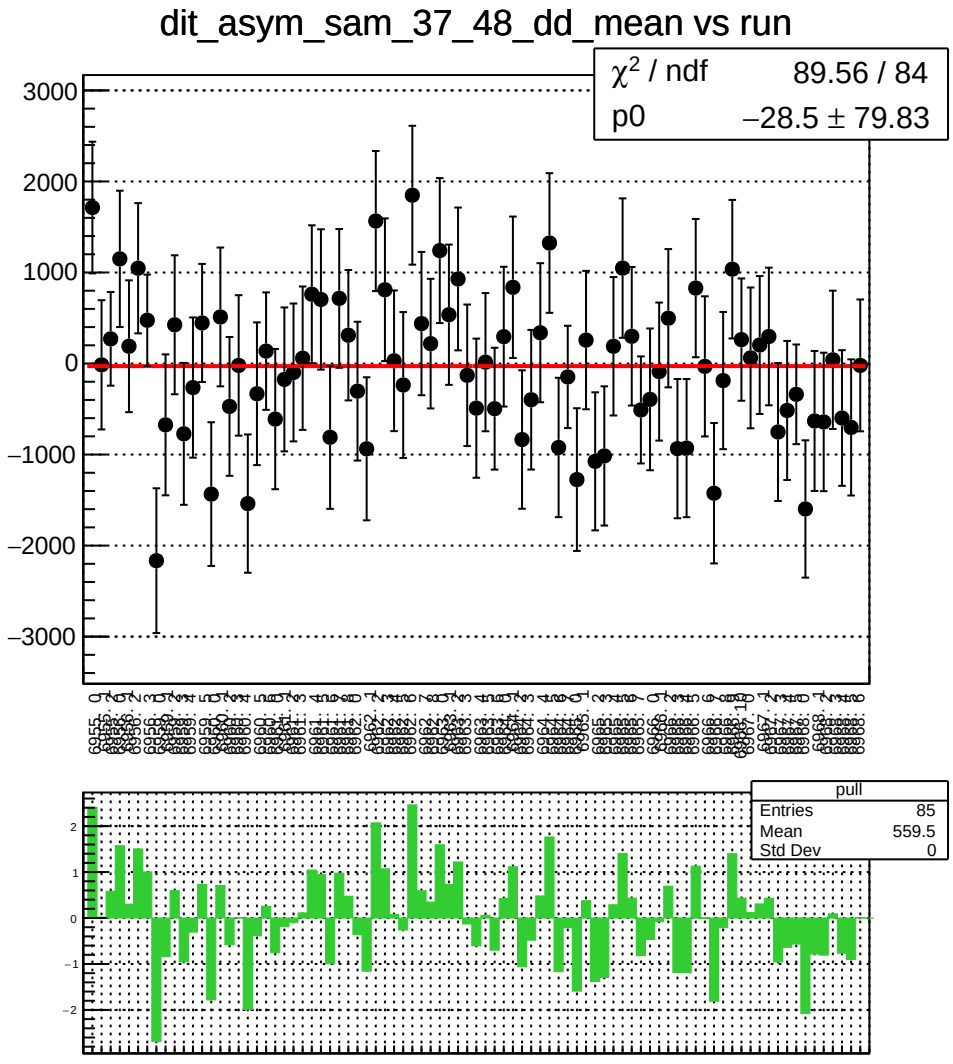

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 85.53 / 84
p0 −30.72 ± 72.84
pull
Entries 85
Mean −6651
Std Dev 0
pull1D
Entries 85
Mean 0.0003837
Std Dev 1.003

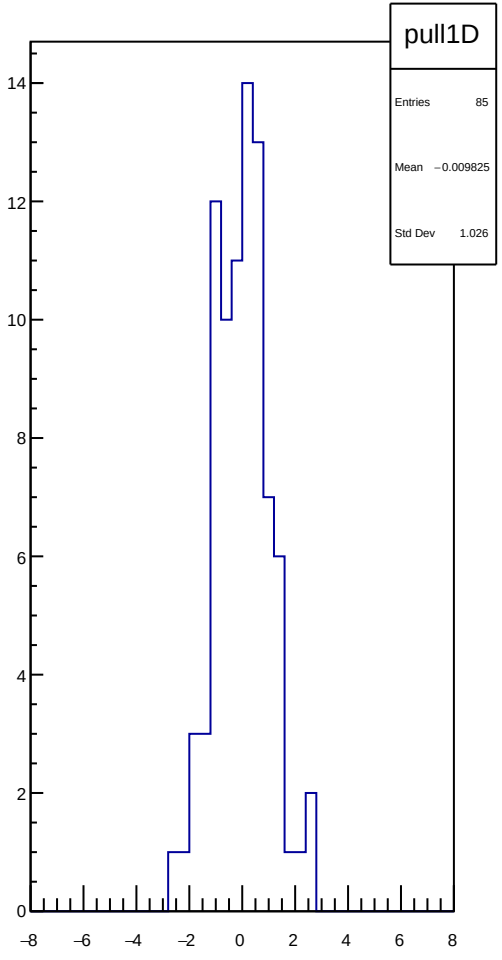

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1398 / 84
p0 65.98 ± 0.0515
70
68
66
64
62
60

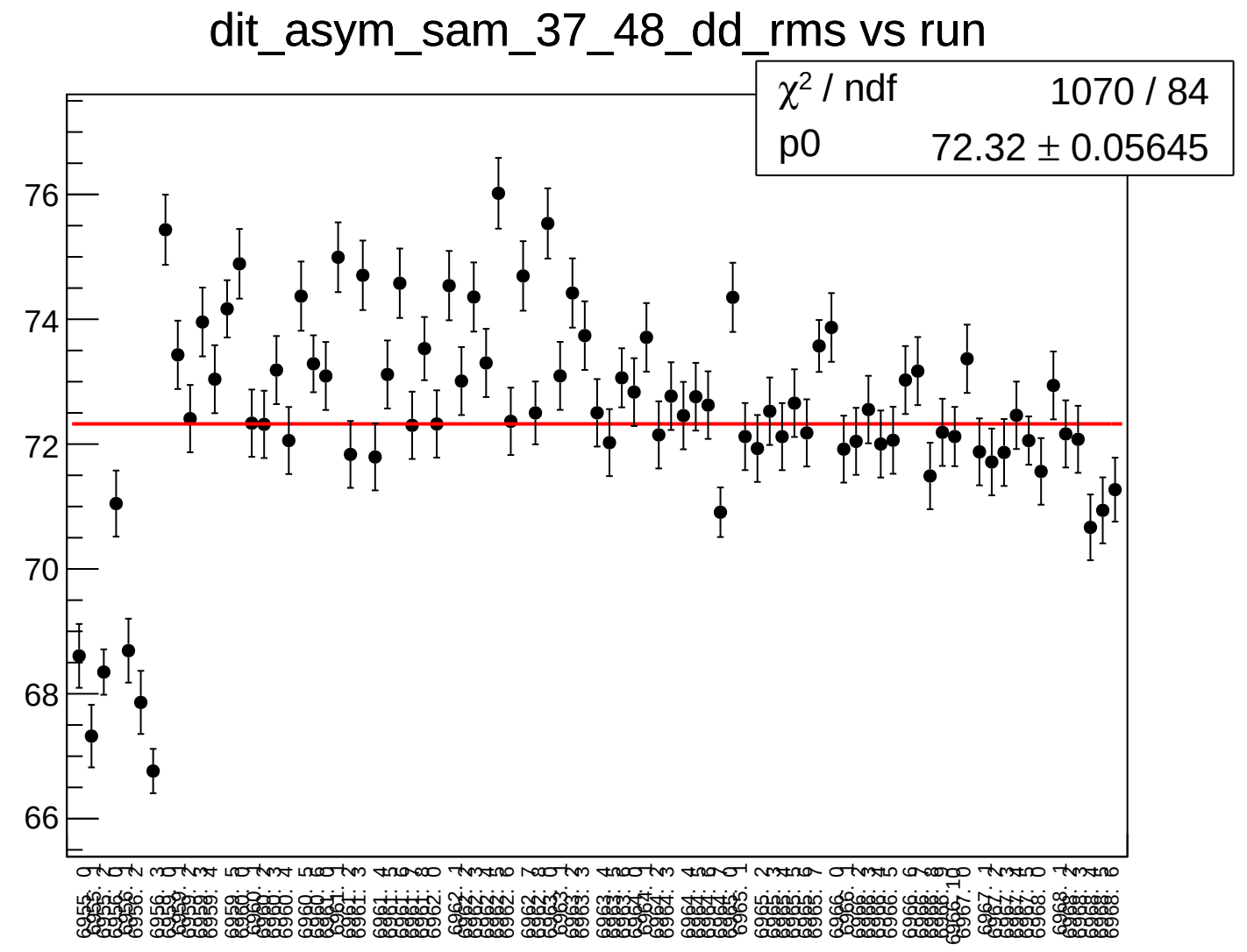

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.78 / 84
p0 306.5 ± 426.9
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 458.4
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

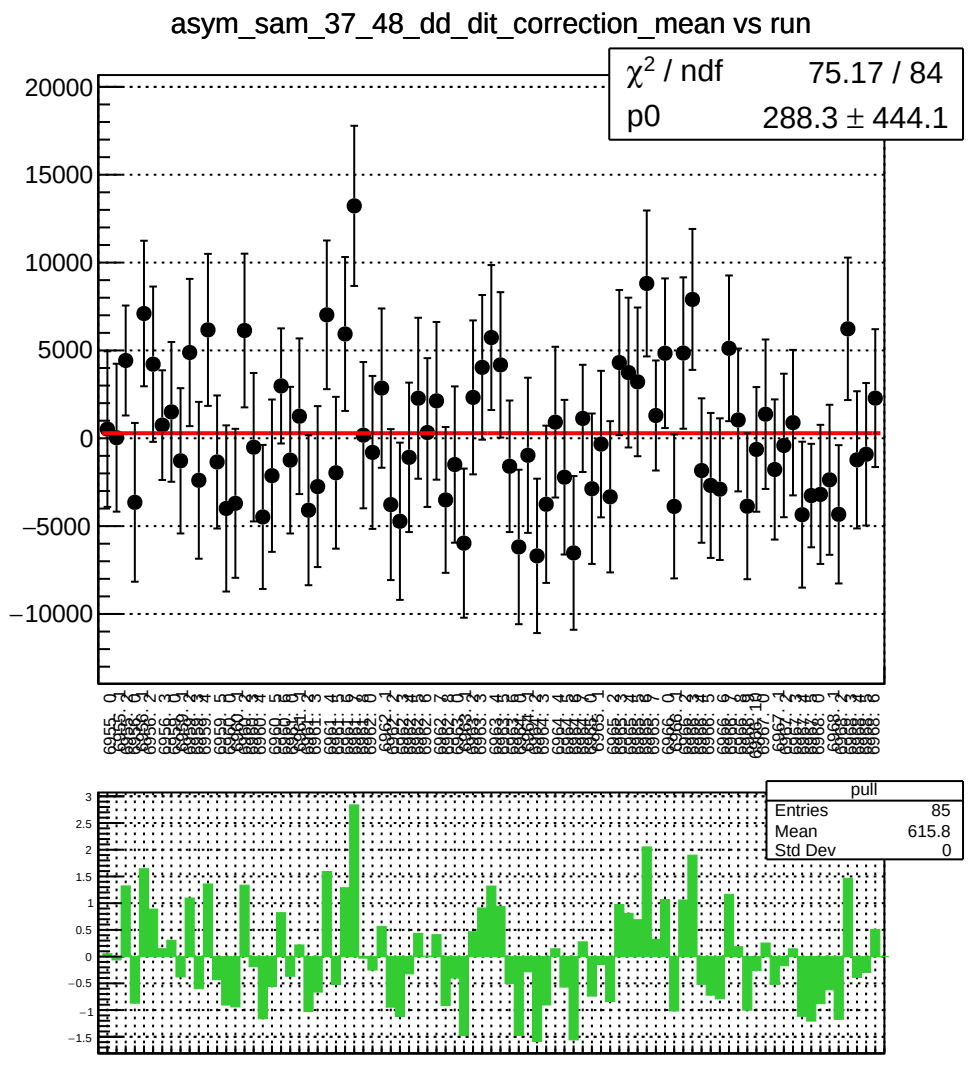

pull1D
Entries 85
Mean −0.005874
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

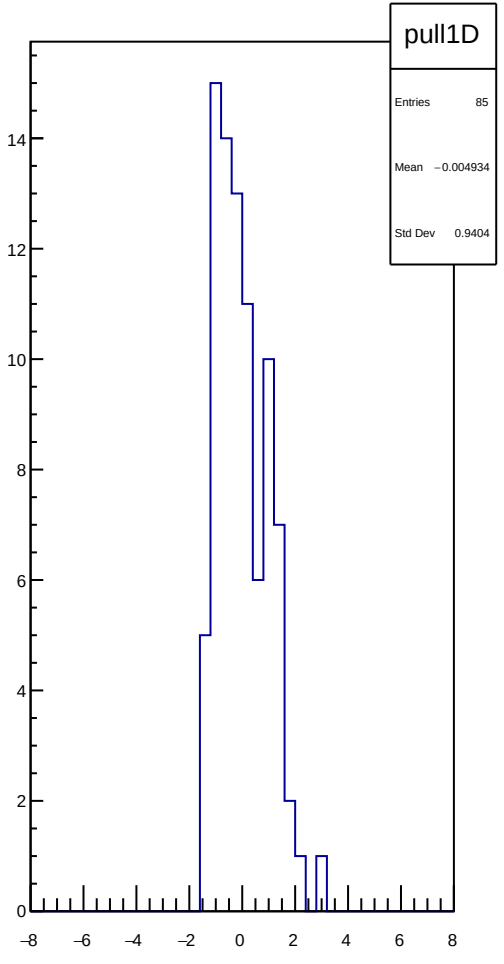

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 3018 / 84
p0 386.5 ± 0.3019
440
420
400
380
360

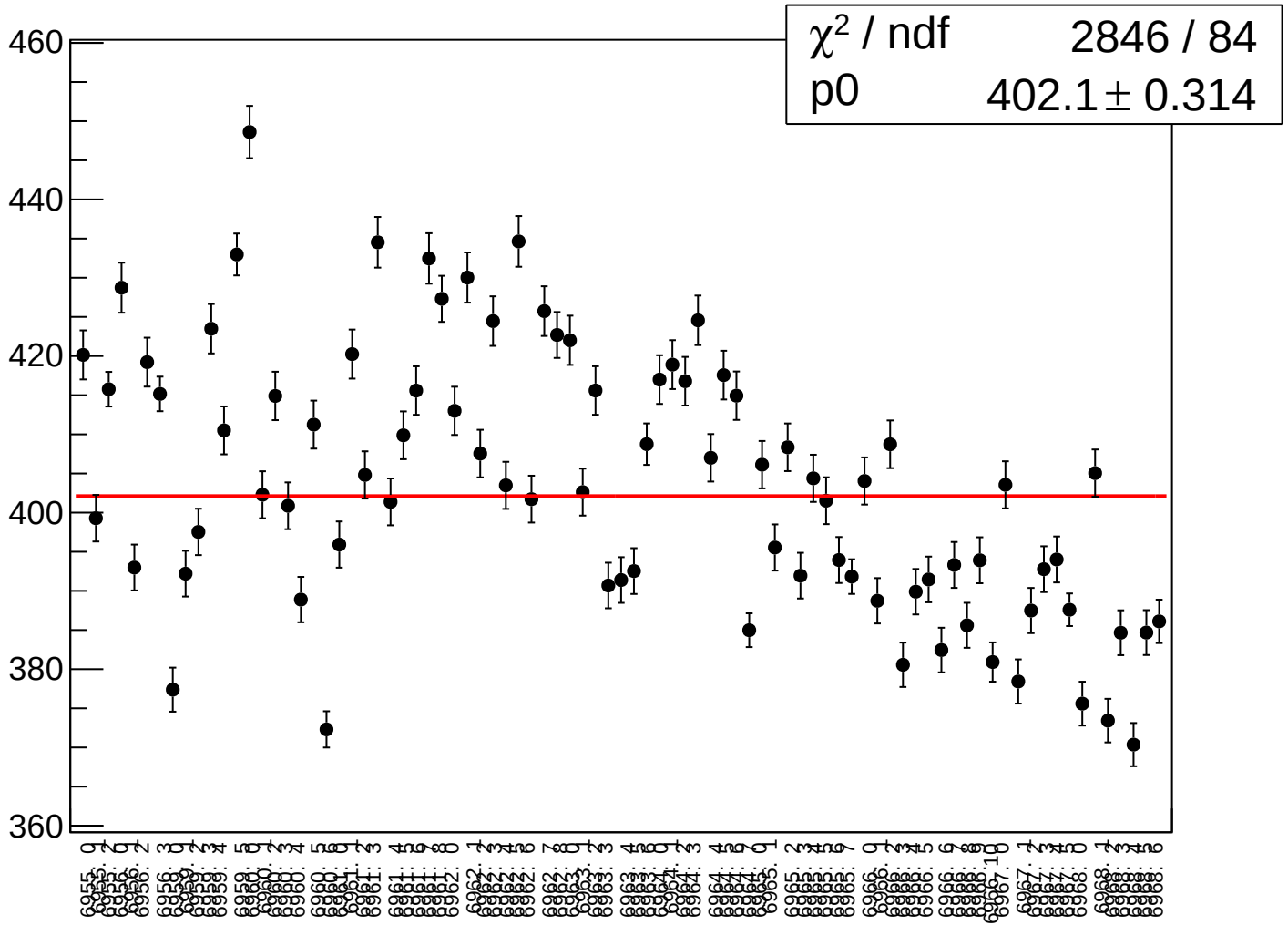

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.56 / 84
p0 −28.5 ± 79.83
pull
Entries 85
Mean 559.5
Std Dev 0

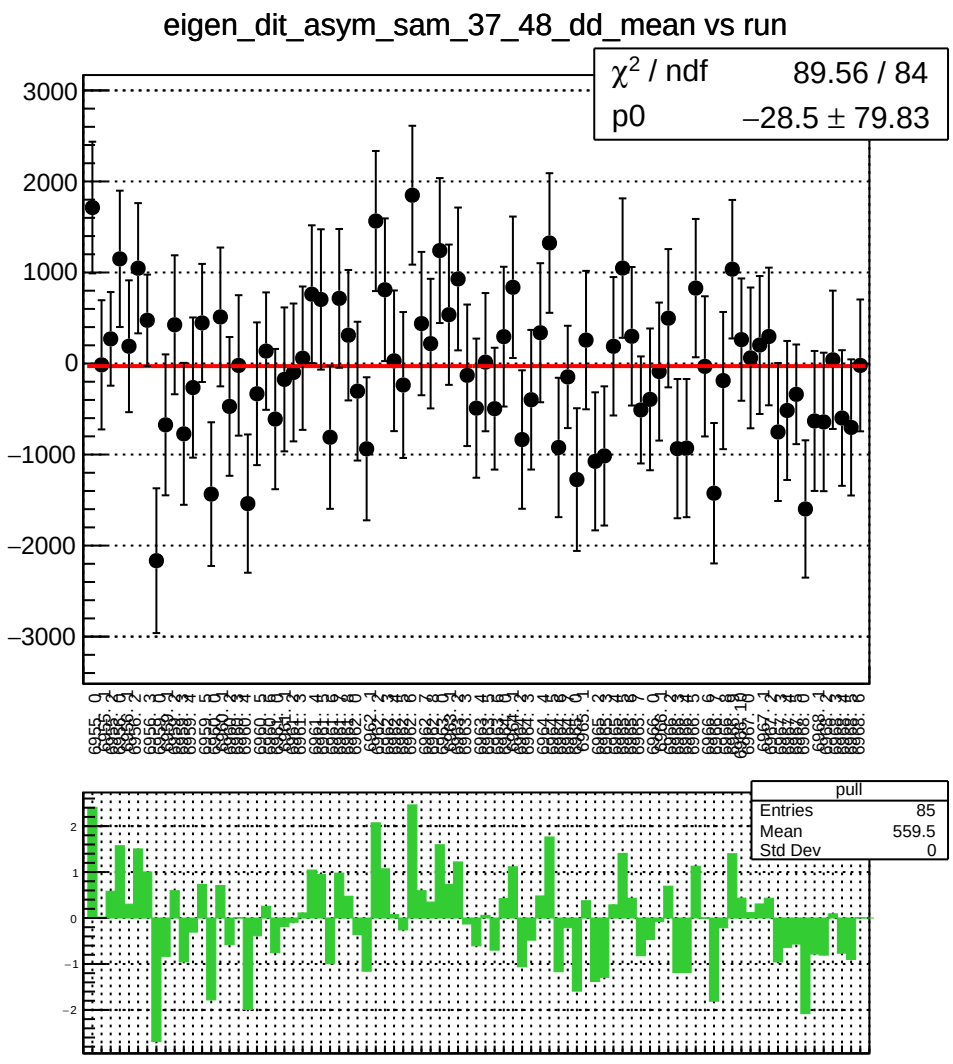

pull1D
Entries 85
Mean −0.009825
Std Dev 1.026

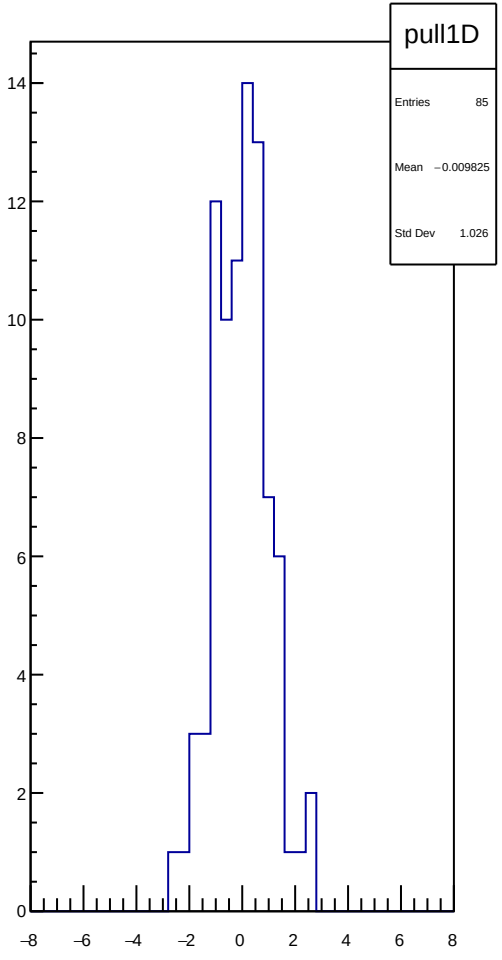

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1070 / 84
p0 72.32 ± 0.05645
76
74
72
70
68
66

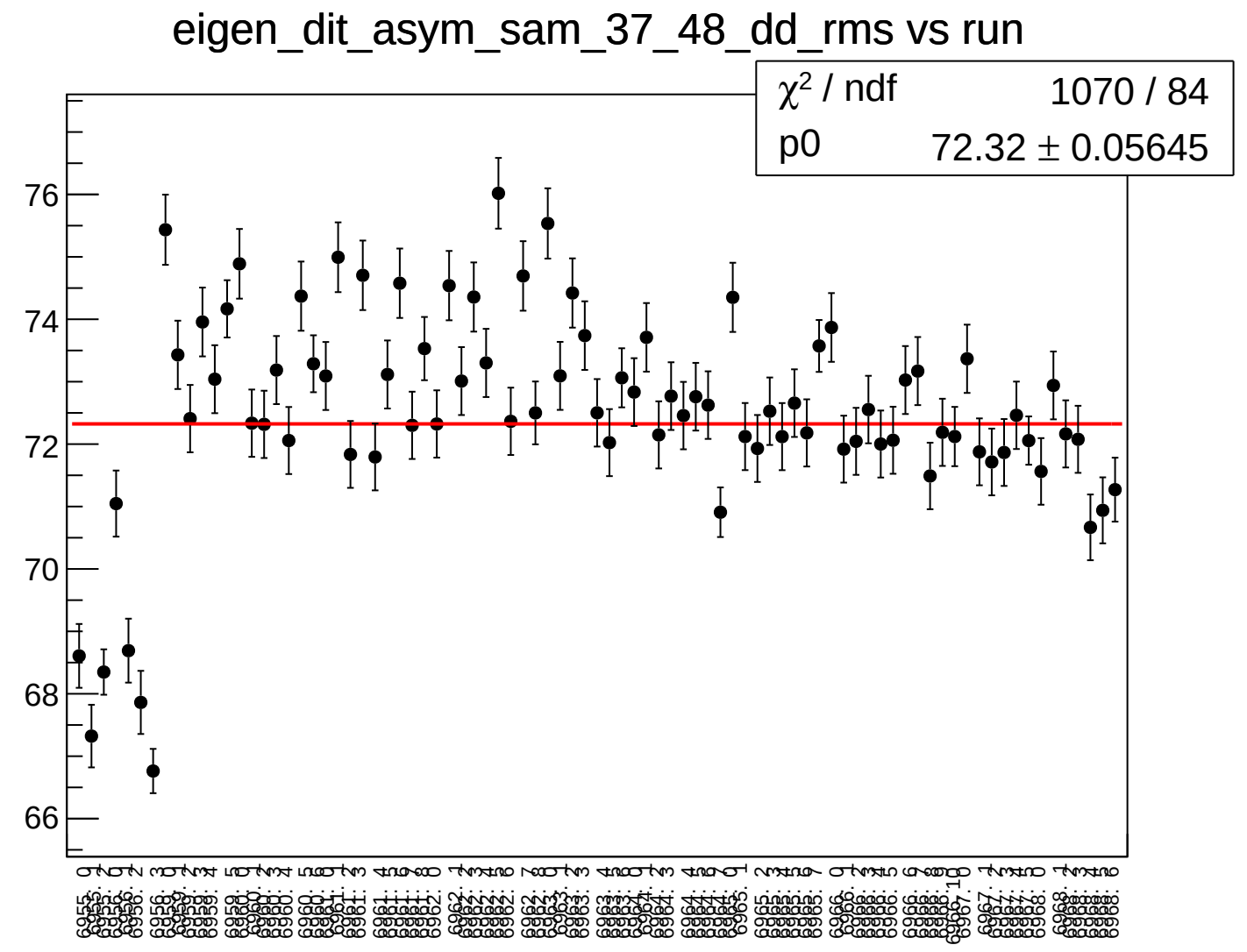

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 75.17 / 84
p0 288.3 ± 444.1
pull
Entries 85
Mean 615.8
Std Dev 0

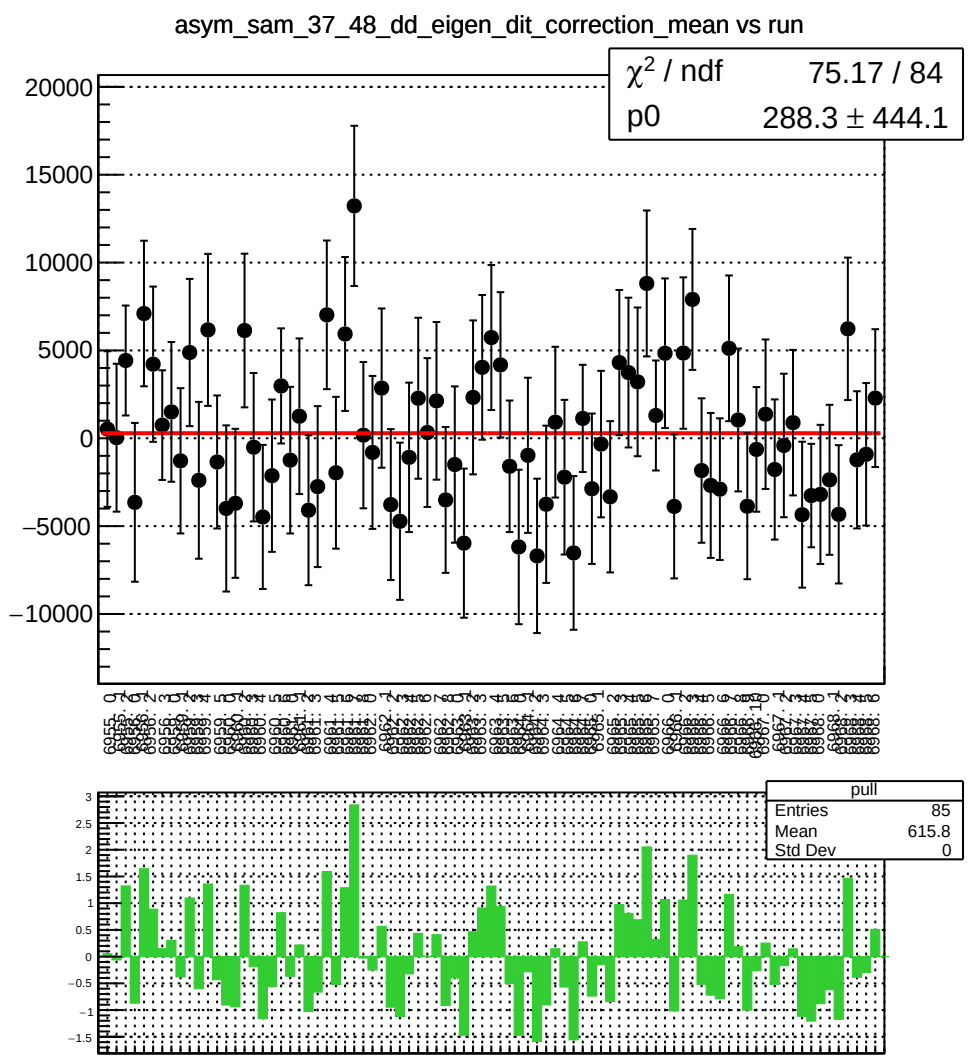

pull1D
Entries 85
Mean −0.004934
Std Dev 0.9404

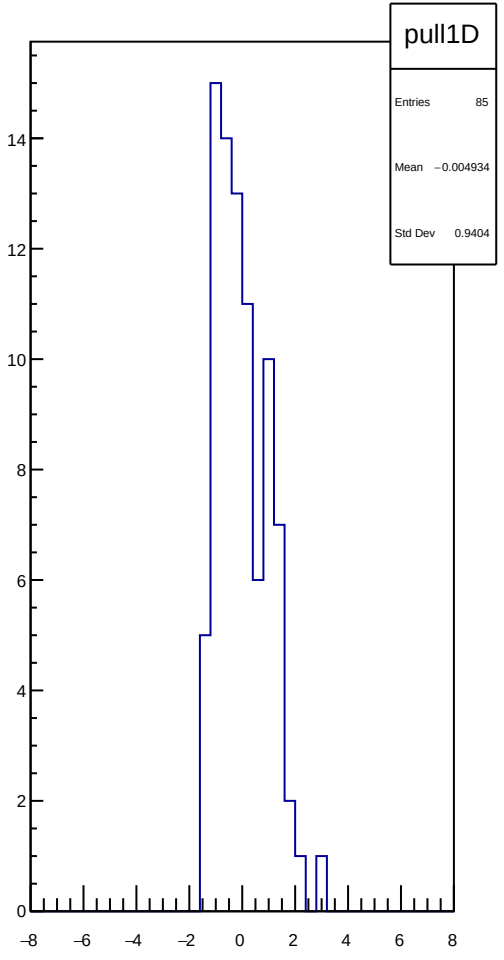

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2846 / 84
p0 402.1 ± 0.314
460
440
420
400
380
360

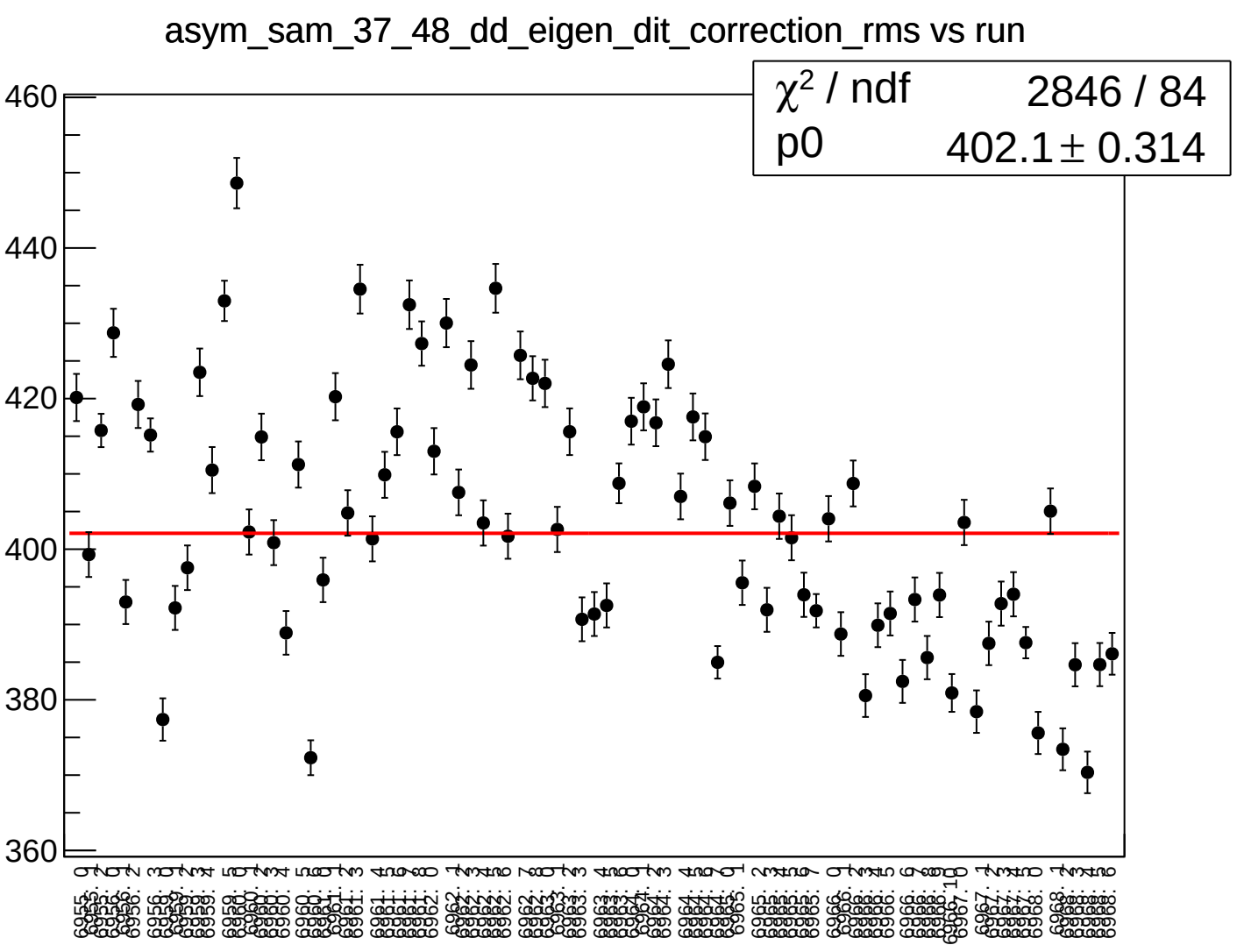

eigen_dit_asym_sam_37_48_dd_mean vs run
$\chi^2$ / ndf 89.56 / 84
p0 −28.5 ± 79.83
pull
Entries 85
Mean 559.5
Std Dev 0

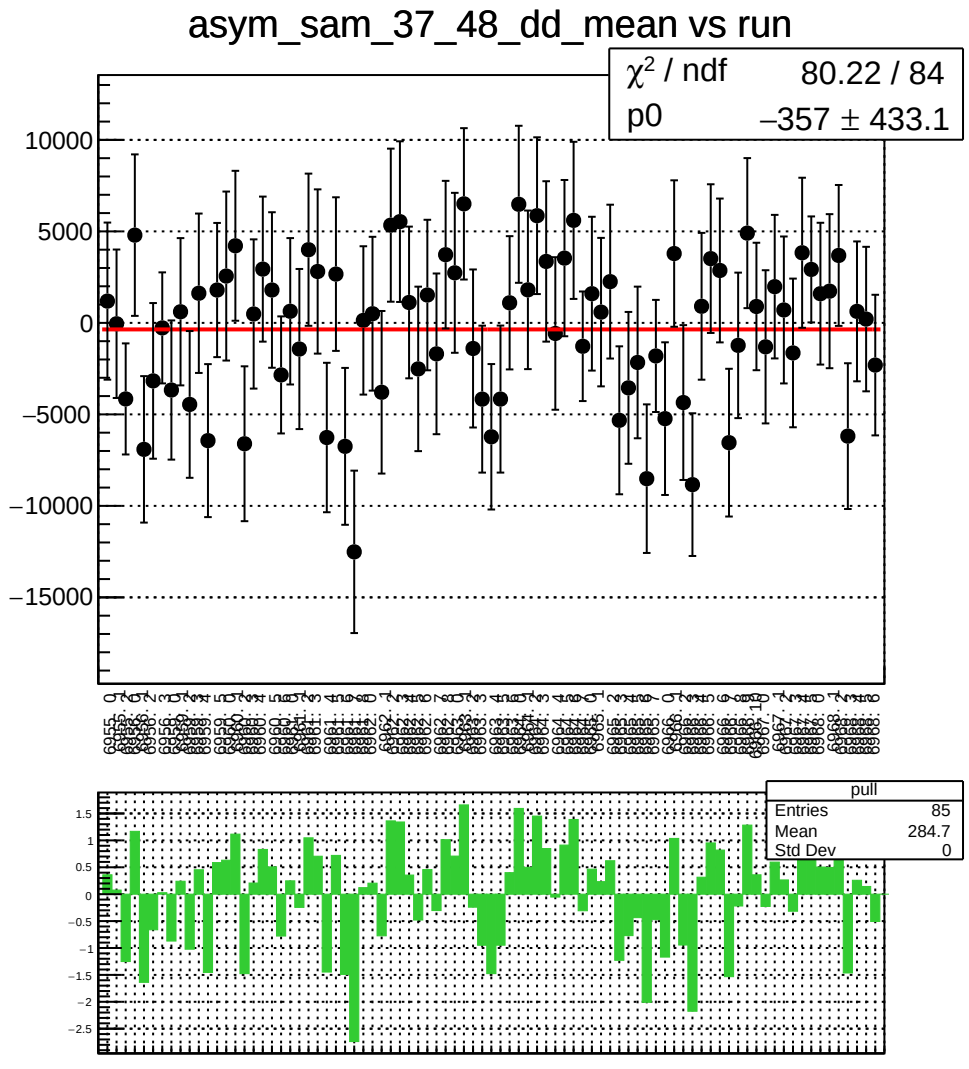

pull1D
Entries 85
Mean −0.009825
Std Dev 1.026

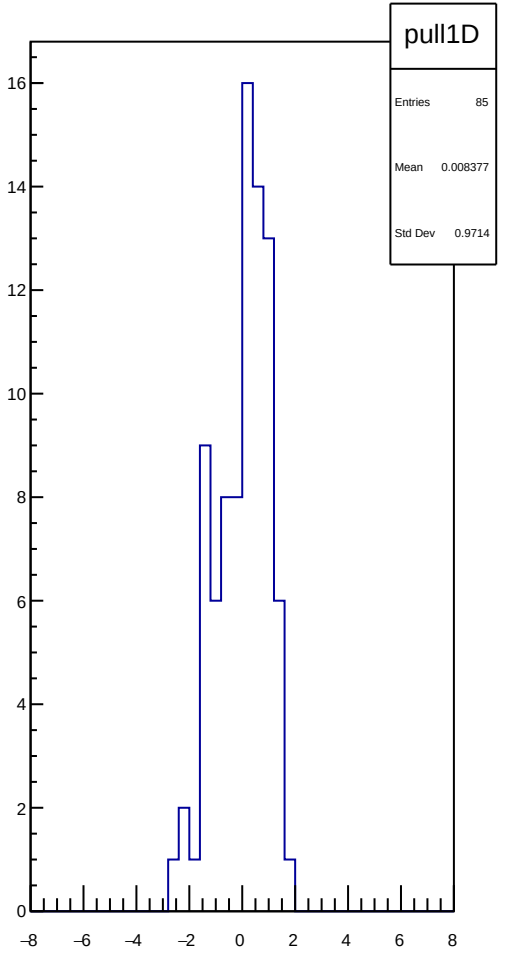

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1070 / 84
p0 72.32 ± 0.05645
76
74
72
70
68
66

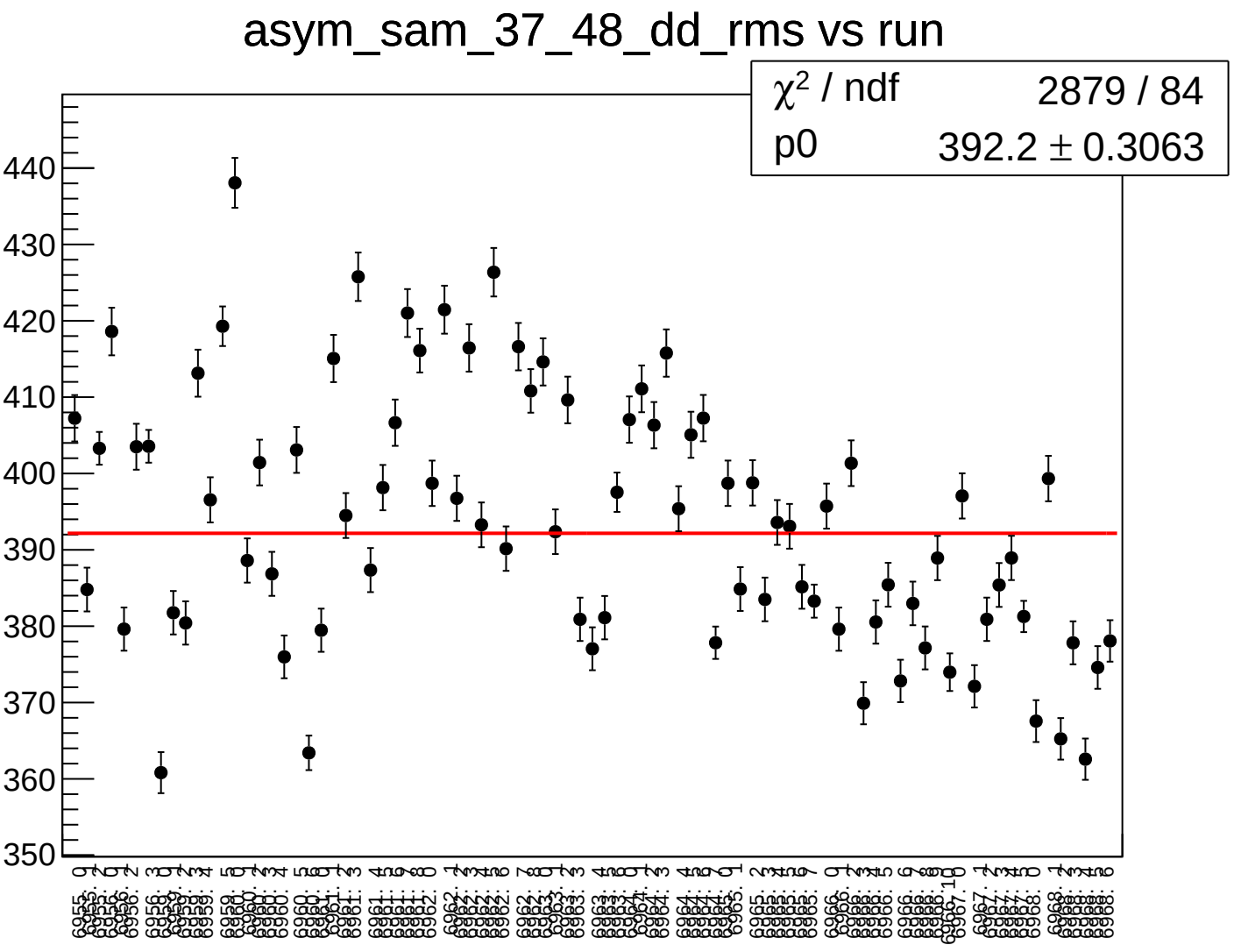

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.17 / 84
p0 288.3 ± 444.1
pull
Entries 85
Mean 615.8
Std Dev 0

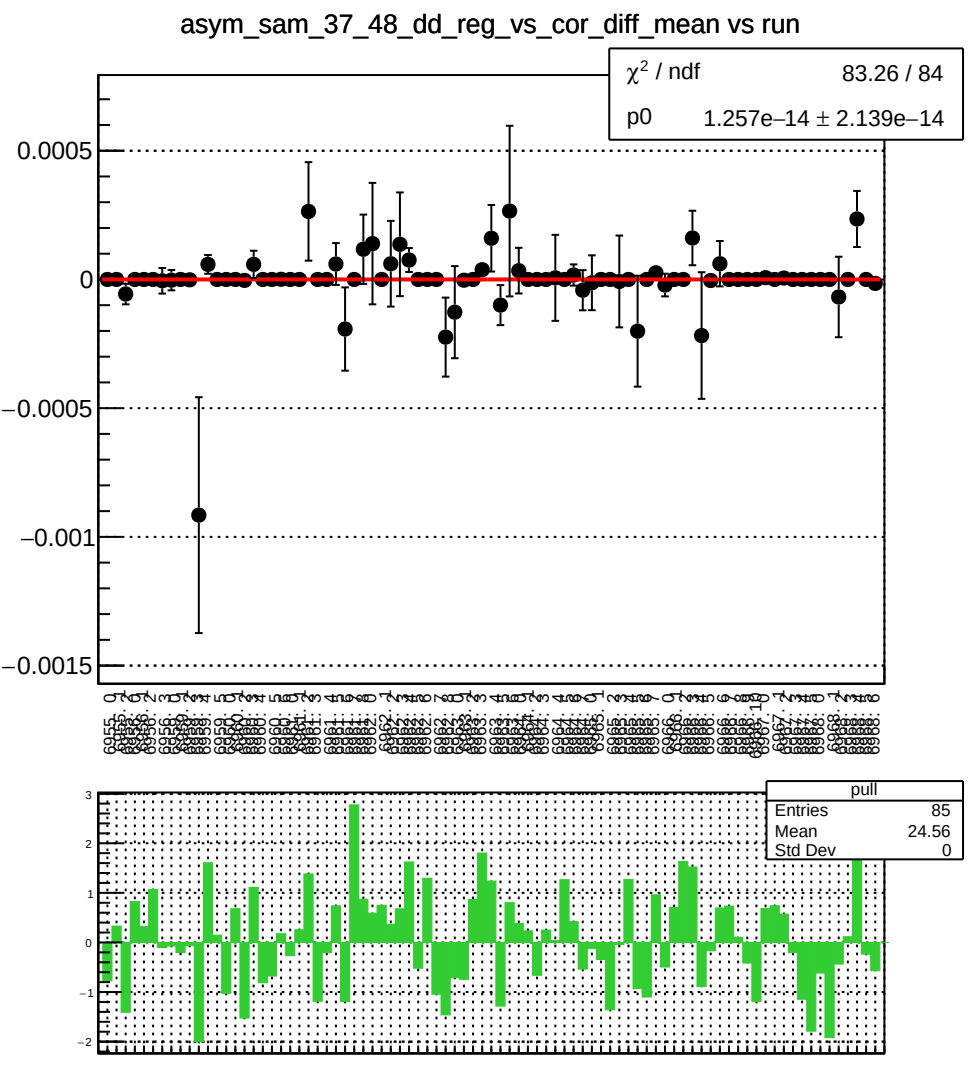

pull1D
Entries 85
Mean −0.004934
Std Dev 0.9404

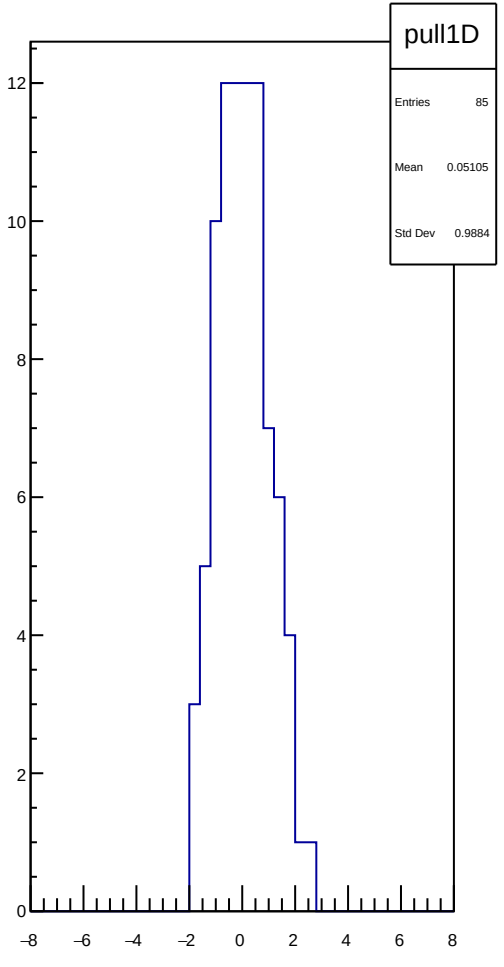

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2846 / 84
p0 402.1 ± 0.314
460
440
420
400
380
360

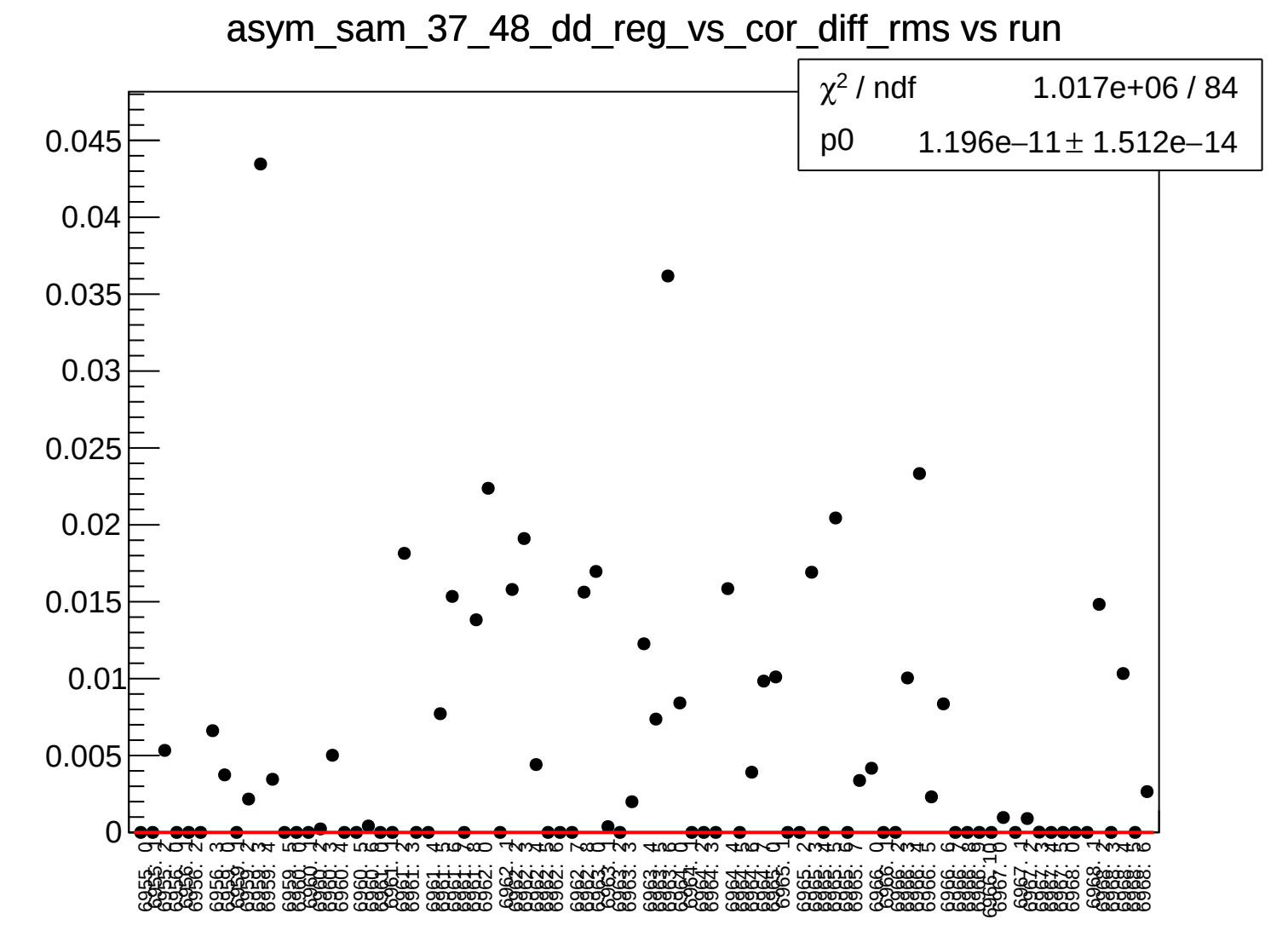

asym_sam_37_48_dd_mean vs run
χ² / ndf 80.22 / 84
p0 −357 ± 433.1
pull
Entries 85
Mean 284.7
Std Dev 0

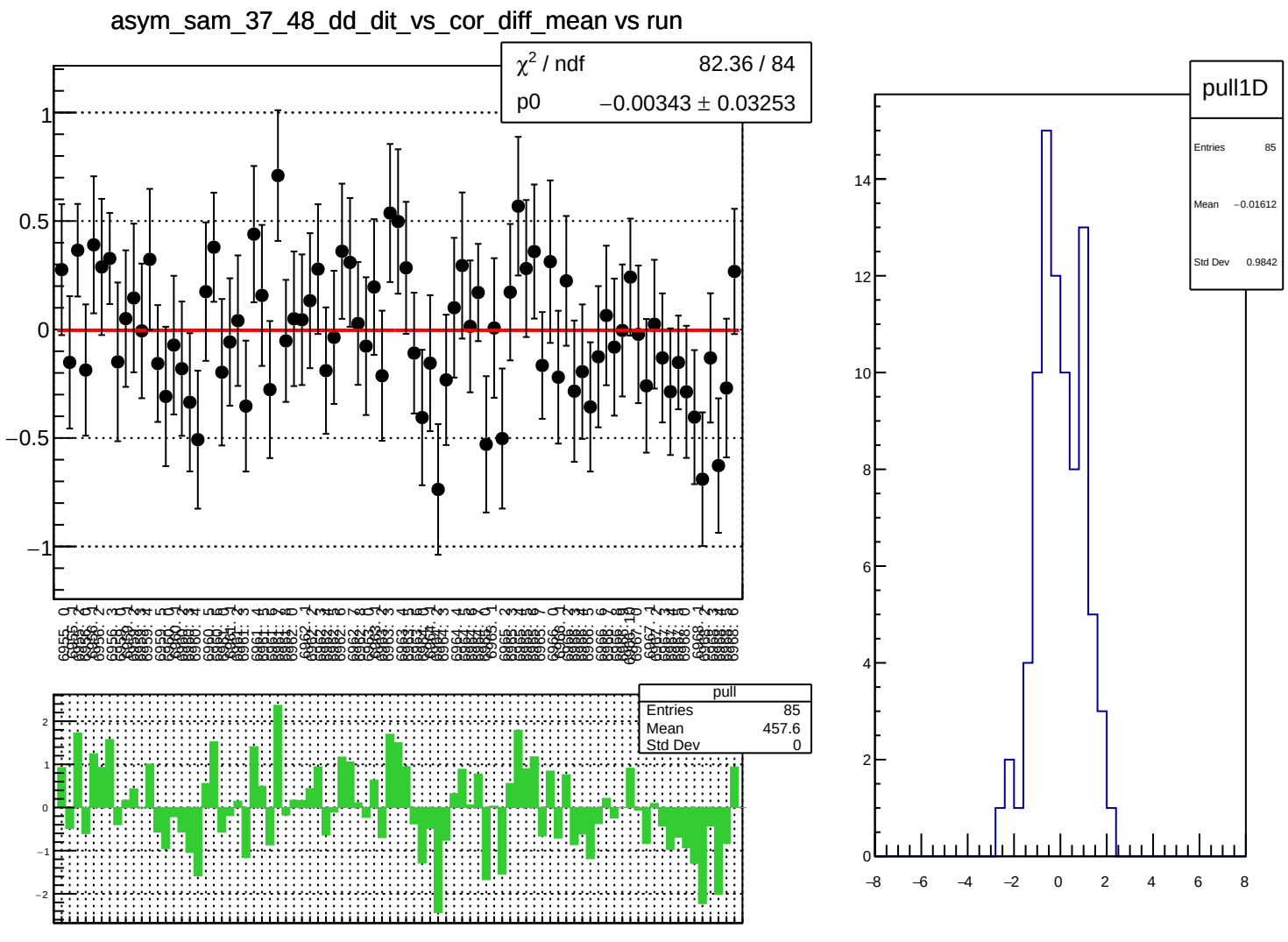

pull1D
Entries 85
Mean 0.008377
Std Dev 0.9714

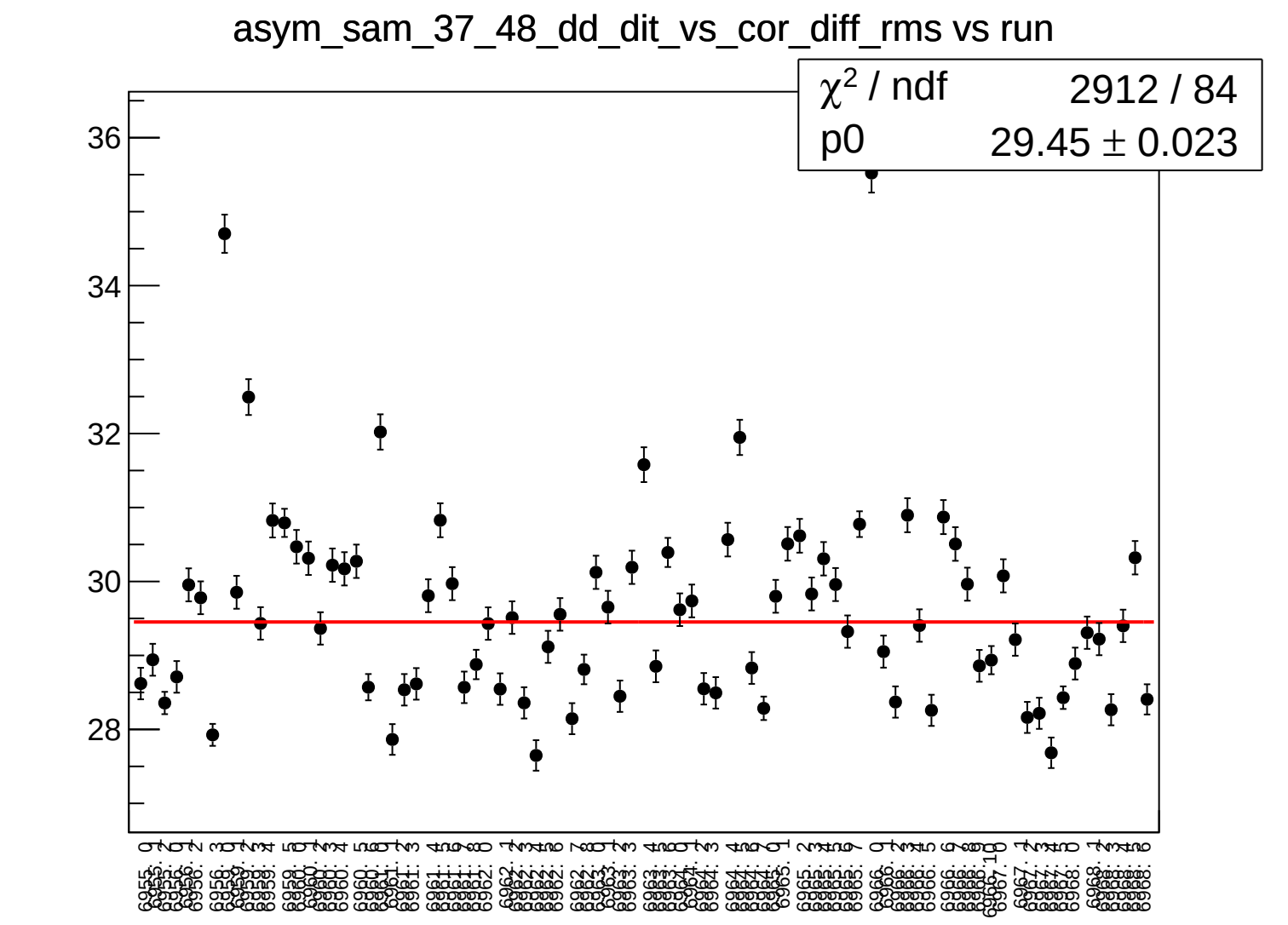

asym_sam_37_48_dd_rms vs run
χ² / ndf 2879 / 84
p0 392.2 ± 0.3063
440
430
420
410
400
390
380
370
360
350

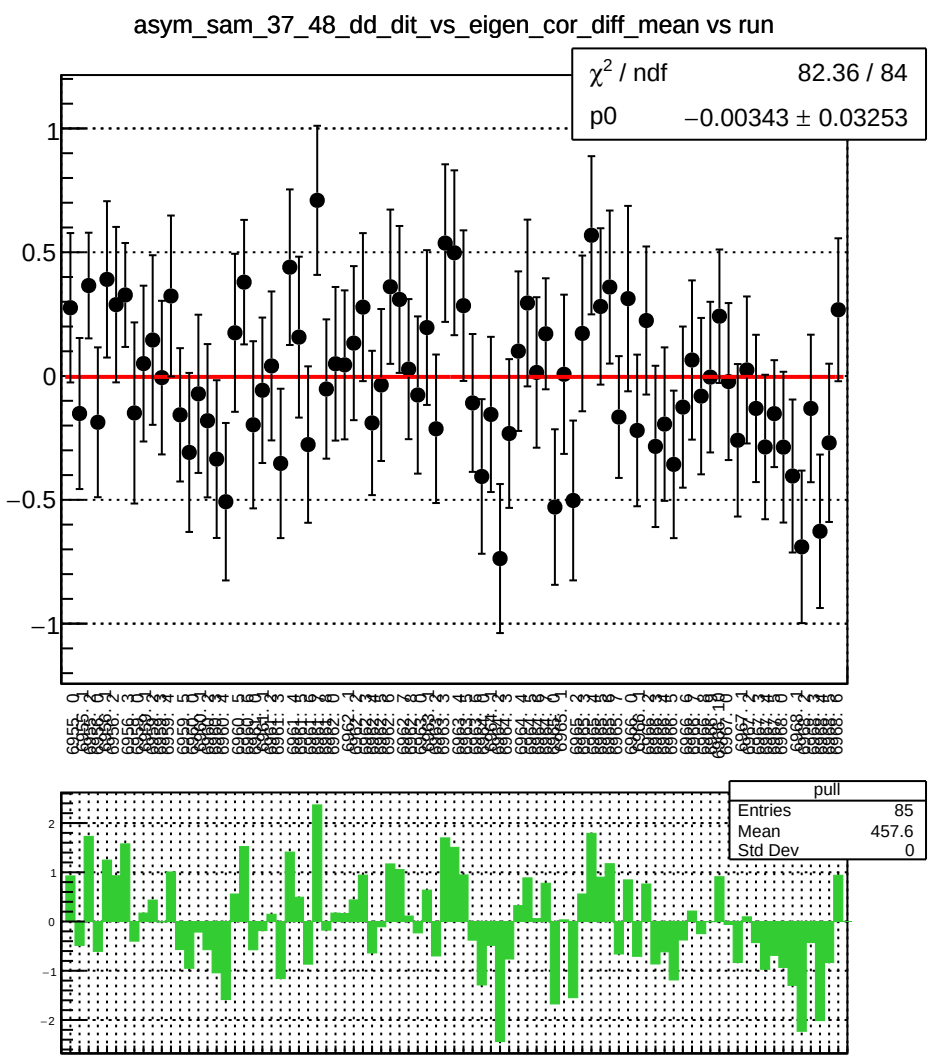

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.26 / 84
p0 1.257e−14 ± 2.139e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 24.56
Std Dev 0
3
2
1
0
−1
−2

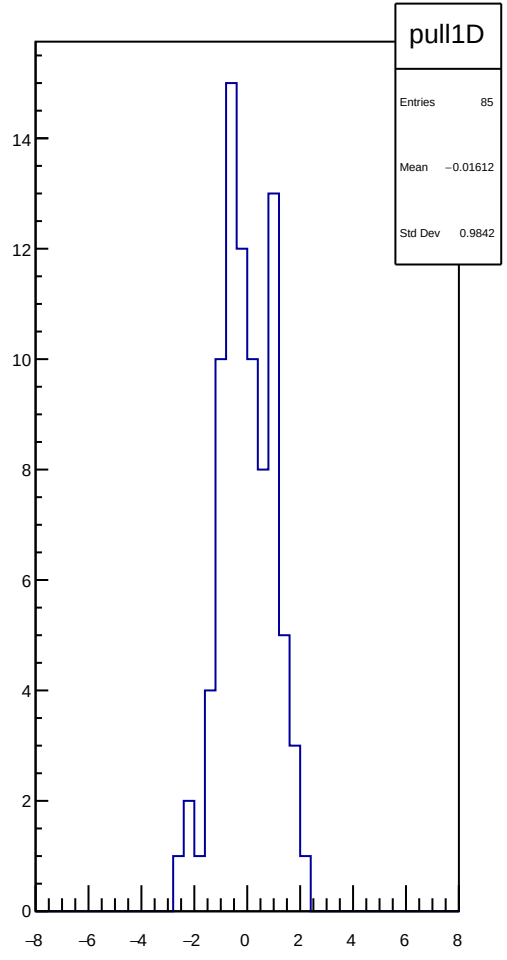

pull1D
Entries 85
Mean 0.05105
Std Dev 0.9884
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

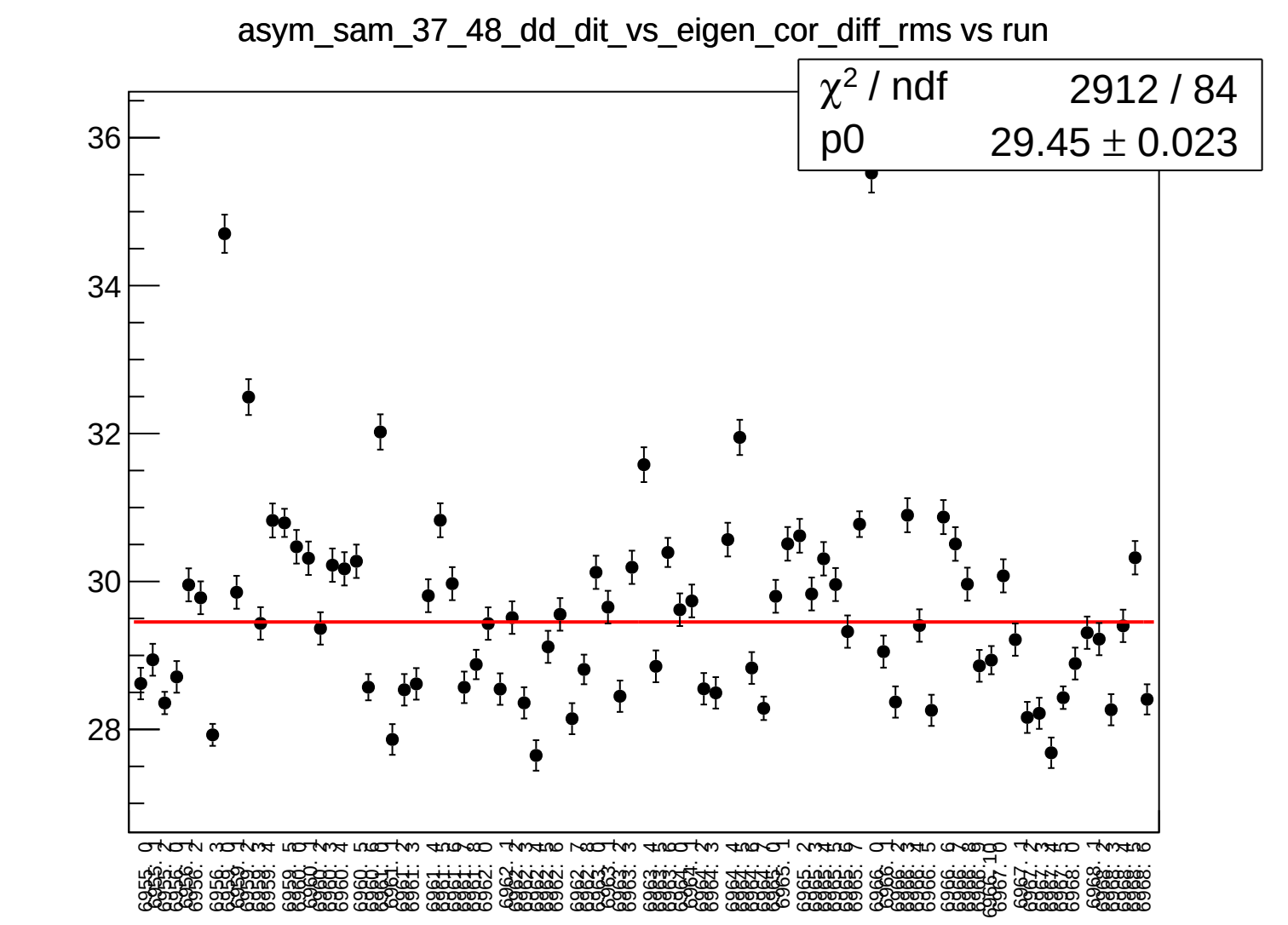

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.017e+06 / 84
p0 1.196e−11 ± 1.512e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

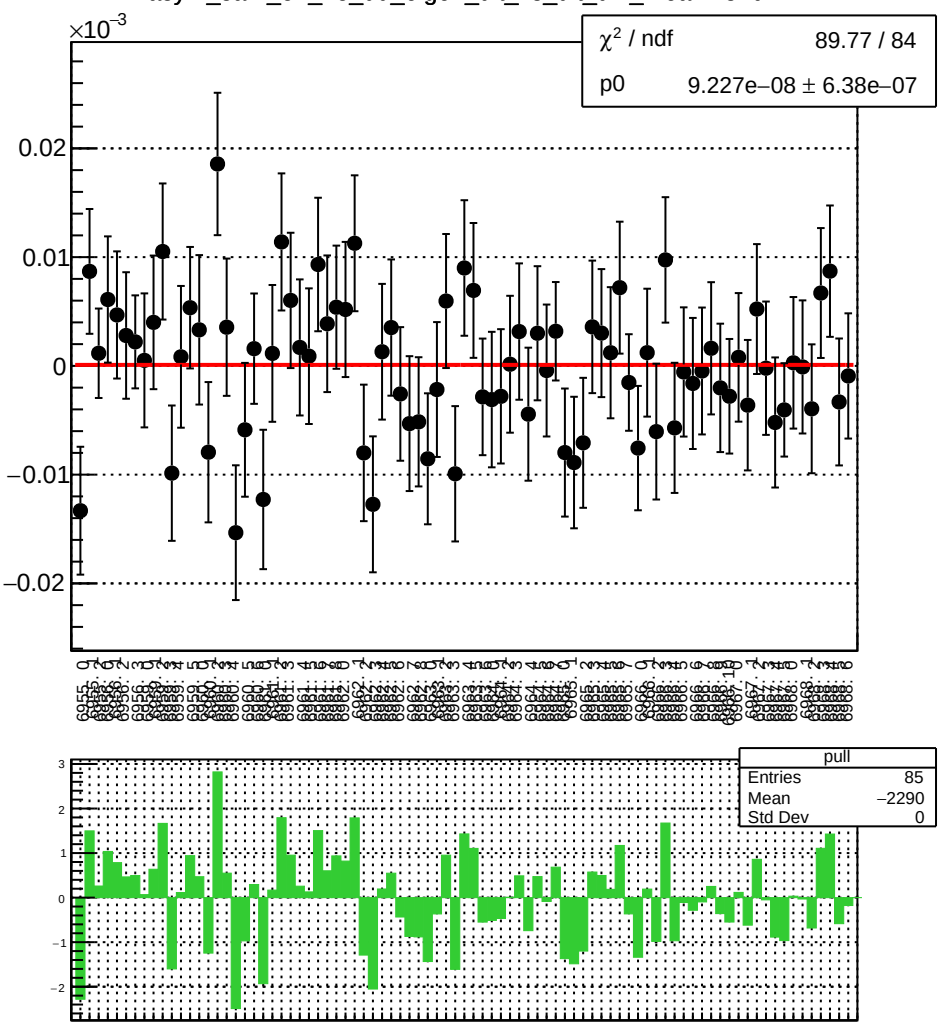

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.36 / 84
p0 −0.00343 ± 0.03253
pull
Entries 85
Mean 457.6
Std Dev 0
pull1D
Entries 85
Mean −0.01612
Std Dev 0.9842

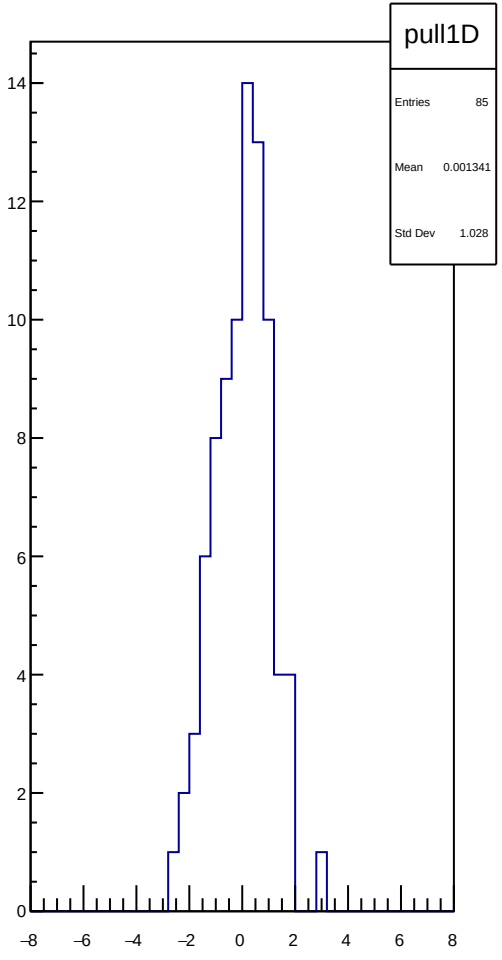

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2912 / 84
p0 29.45 ± 0.023
36
34
32
30
28

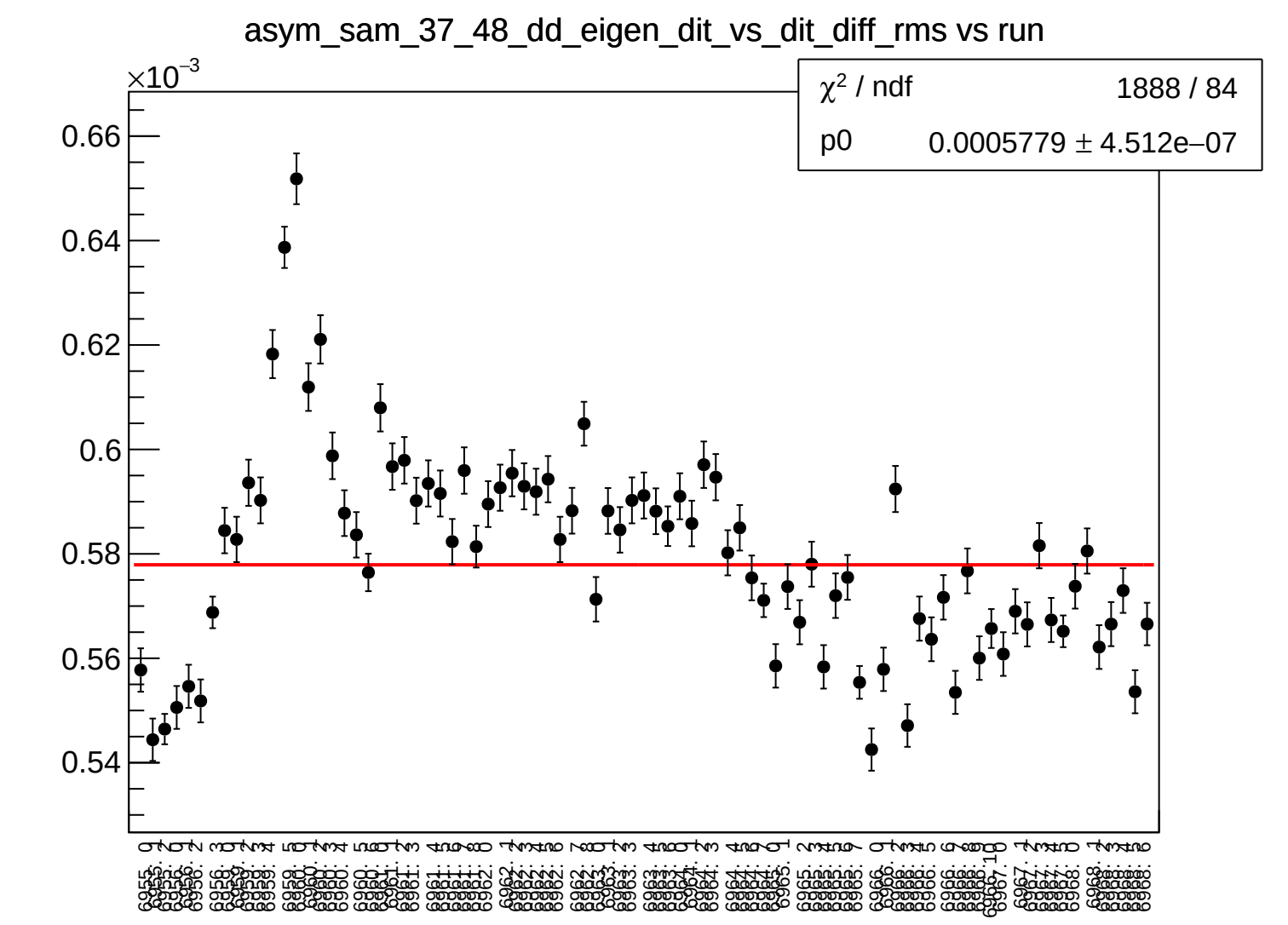

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.36 / 84
p0 −0.00343 ± 0.03253
pull
Entries 85
Mean 457.6
Std Dev 0

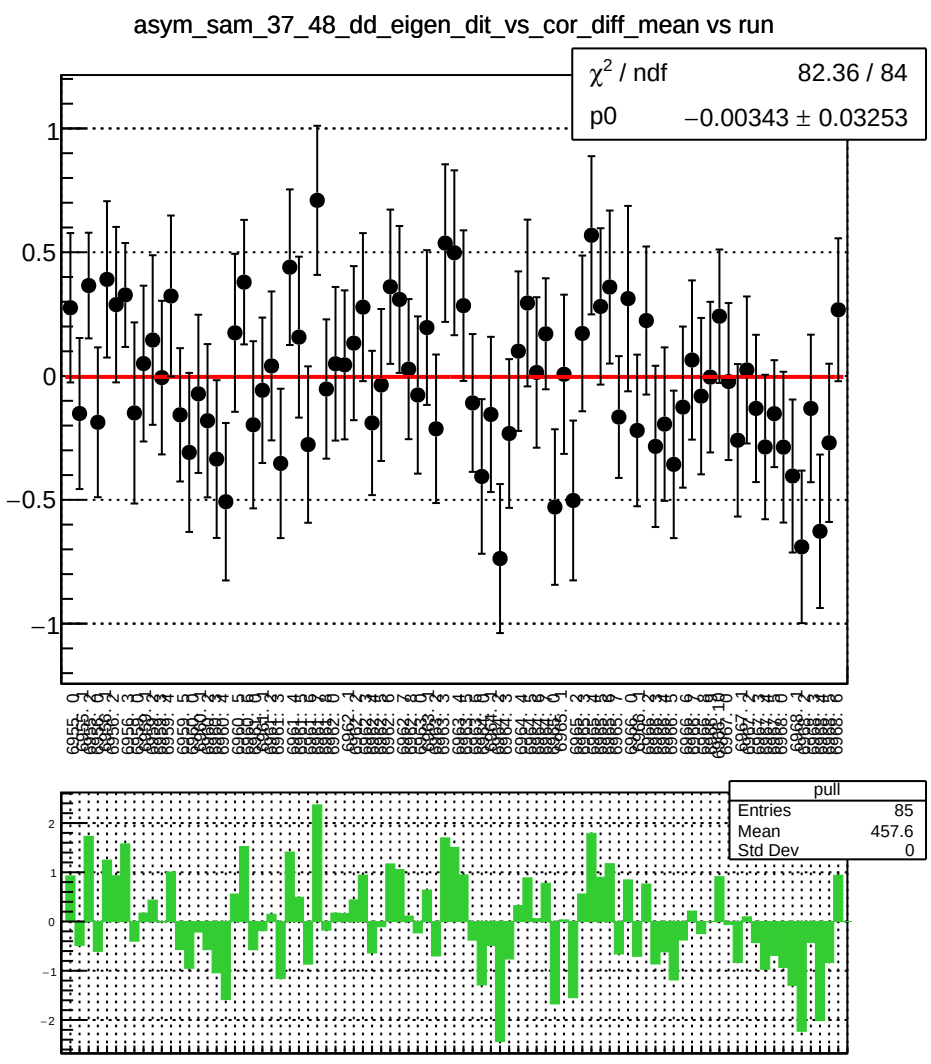

pull1D
Entries 85
Mean −0.01612
Std Dev 0.9842

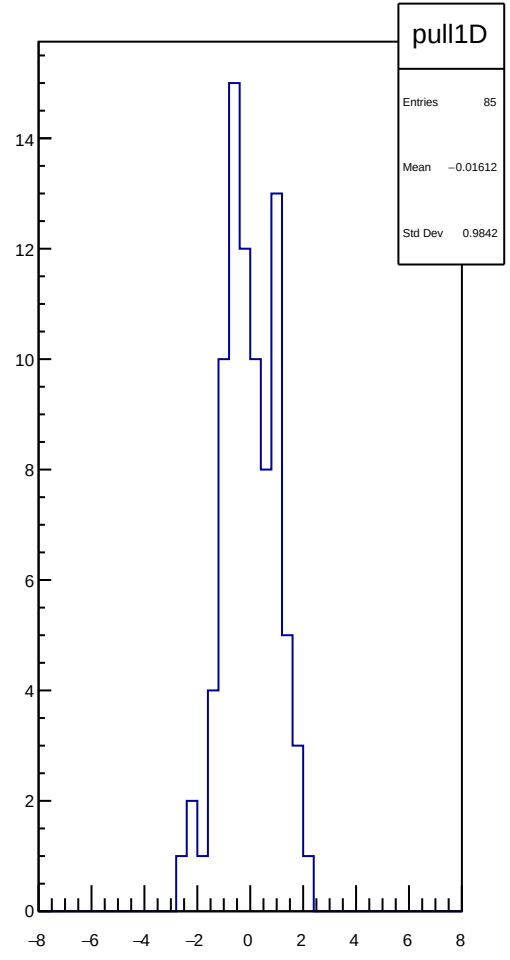

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2912 / 84
p0 29.45 ± 0.023
36
34
32
30
28

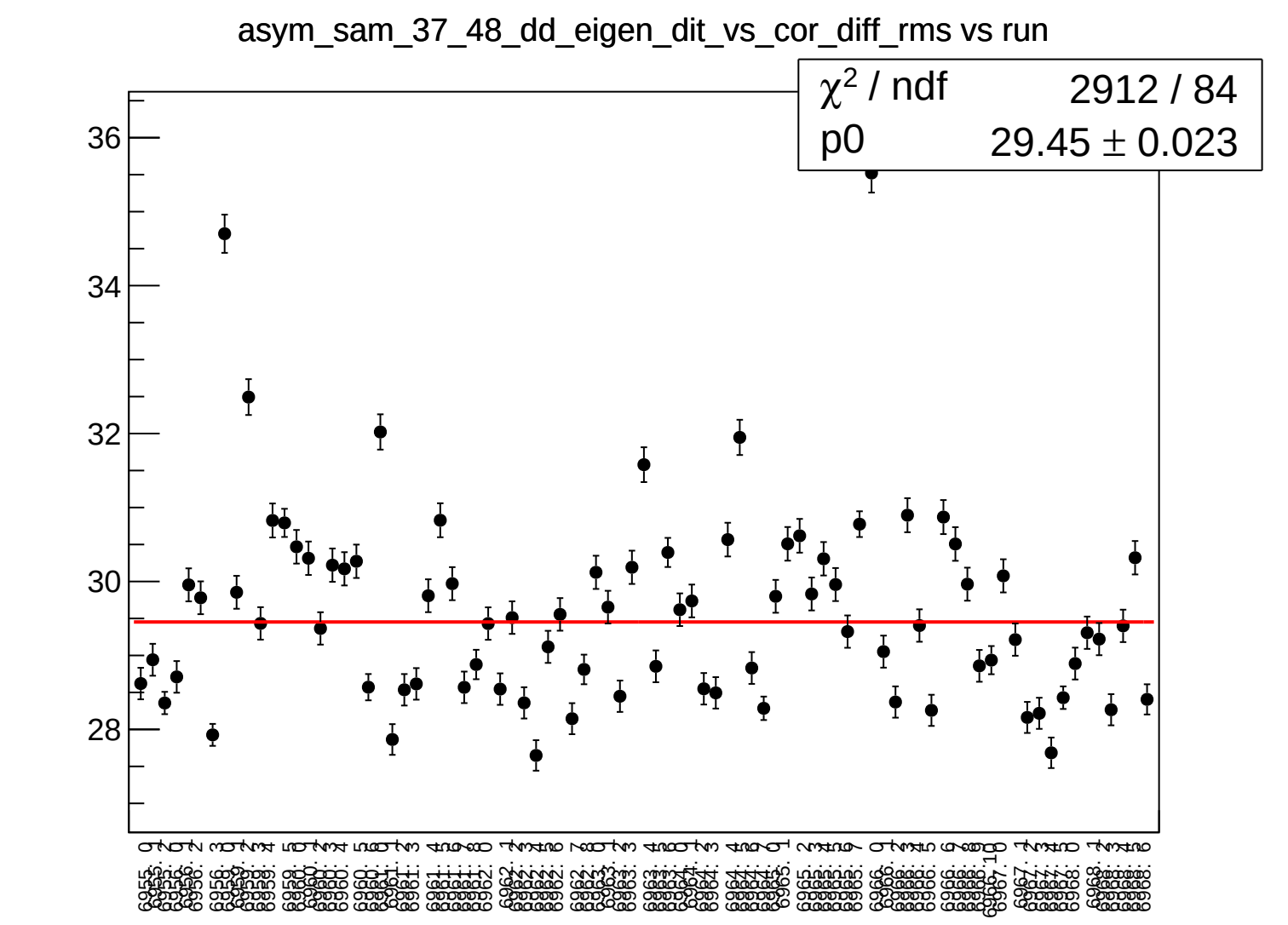

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 89.77 / 84
p0 9.227e−08 ± 6.38e−07
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean −2290
Std Dev 0
3
2
1
0
−1
−2

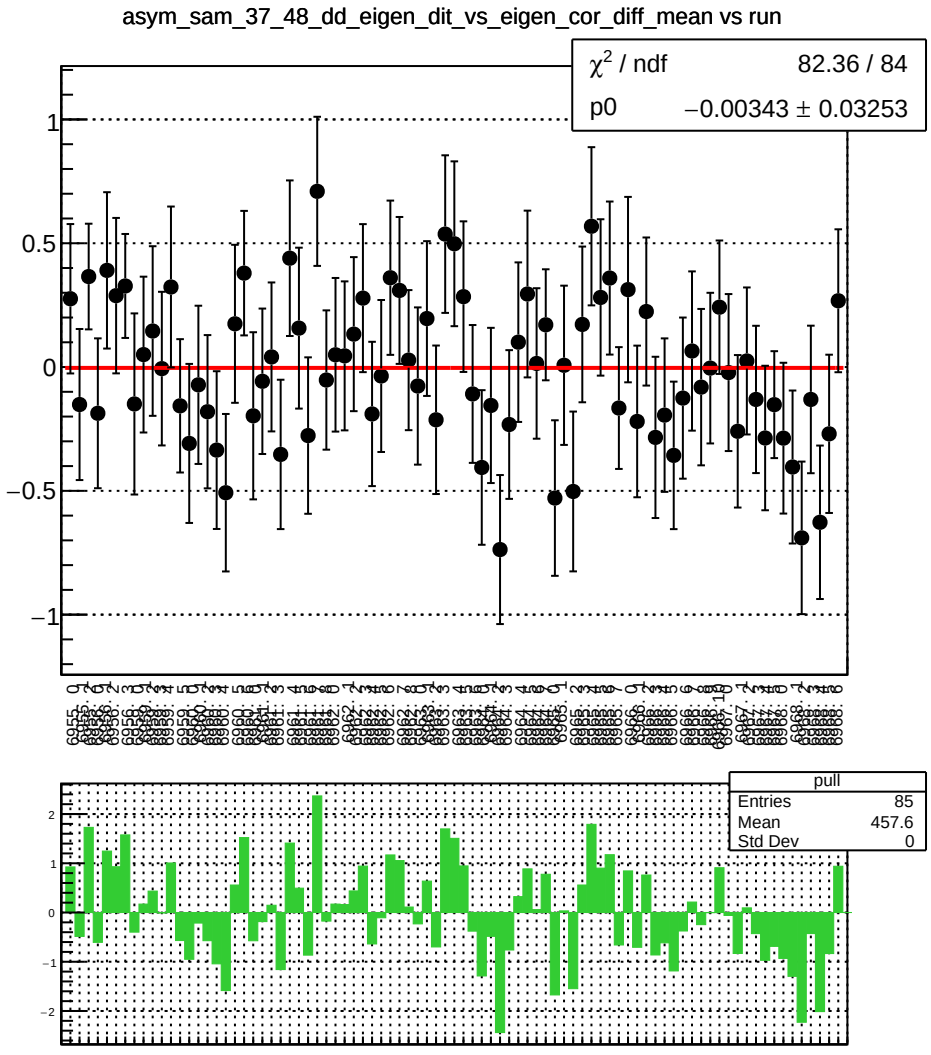

pull1D
Entries 85
Mean 0.001341
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

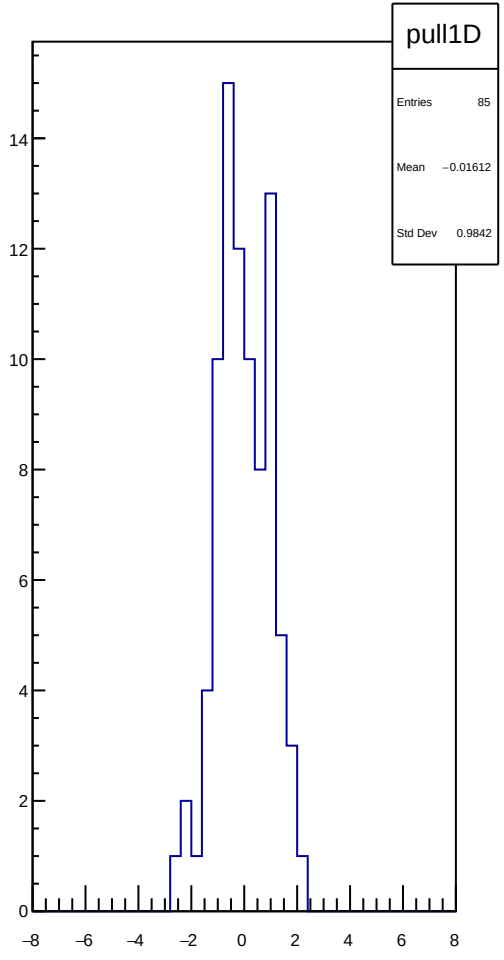

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1888 / 84
p0 0.0005779 ± 4.512e−07
0.66
0.64
0.62
0.6
0.58
0.56
0.54

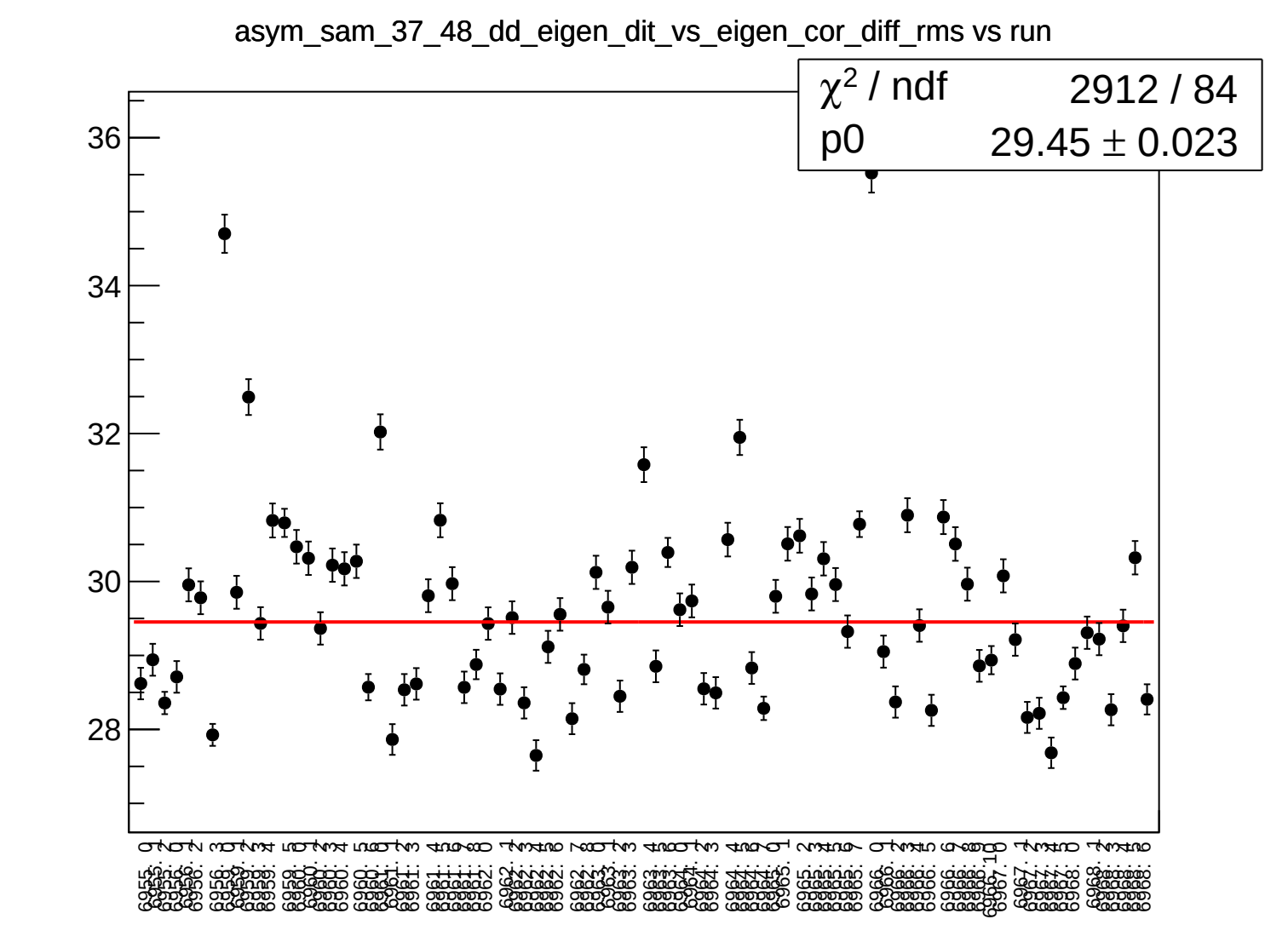

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.36 / 84
p0 −0.00343 ± 0.03253
pull
Entries 85
Mean 457.6
Std Dev 0

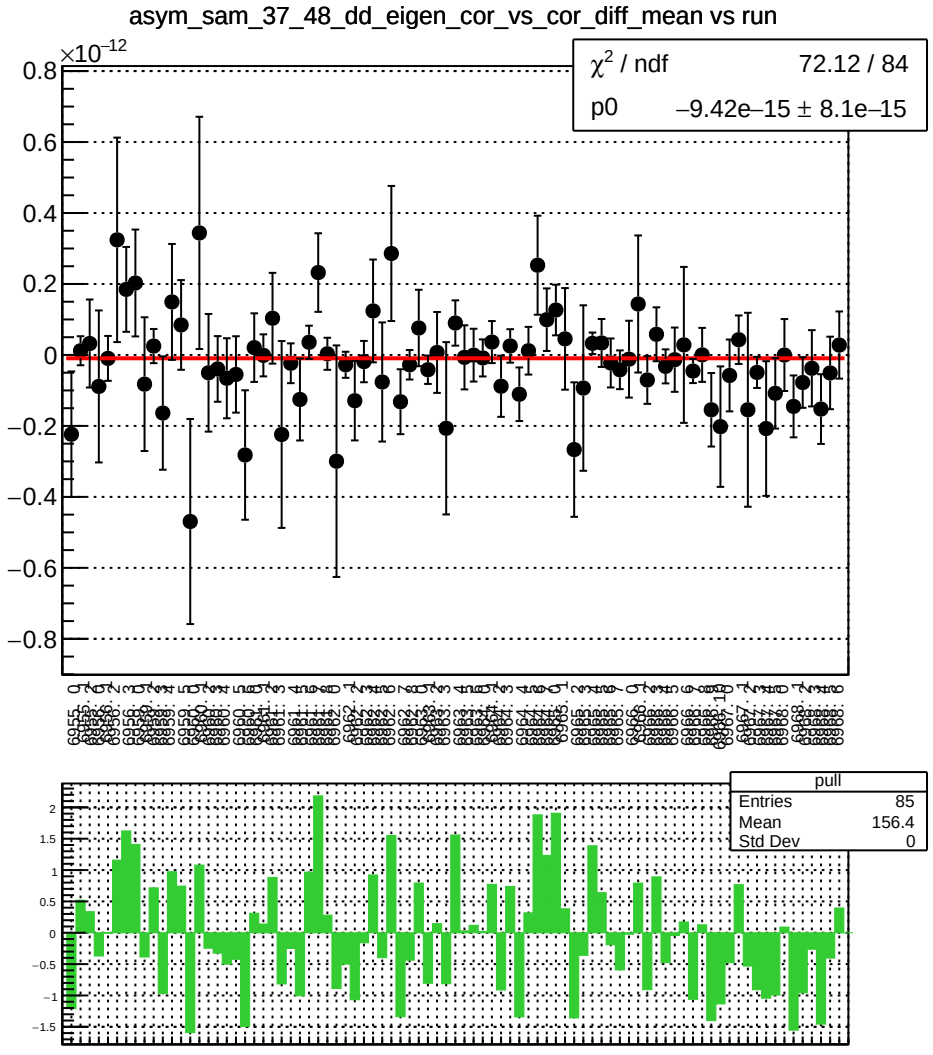

pull1D
Entries 85
Mean −0.01612
Std Dev 0.9842

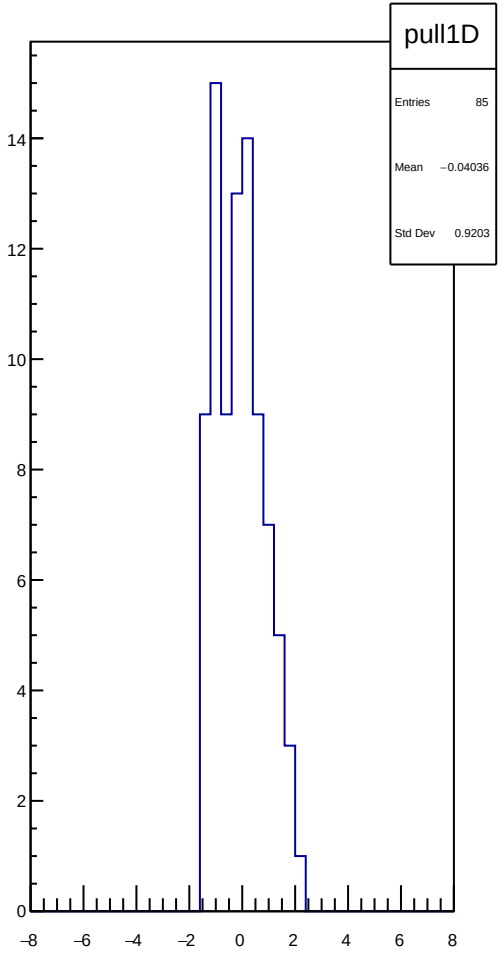

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2912 / 84
p0 29.45 ± 0.023
36
34
32
30
28

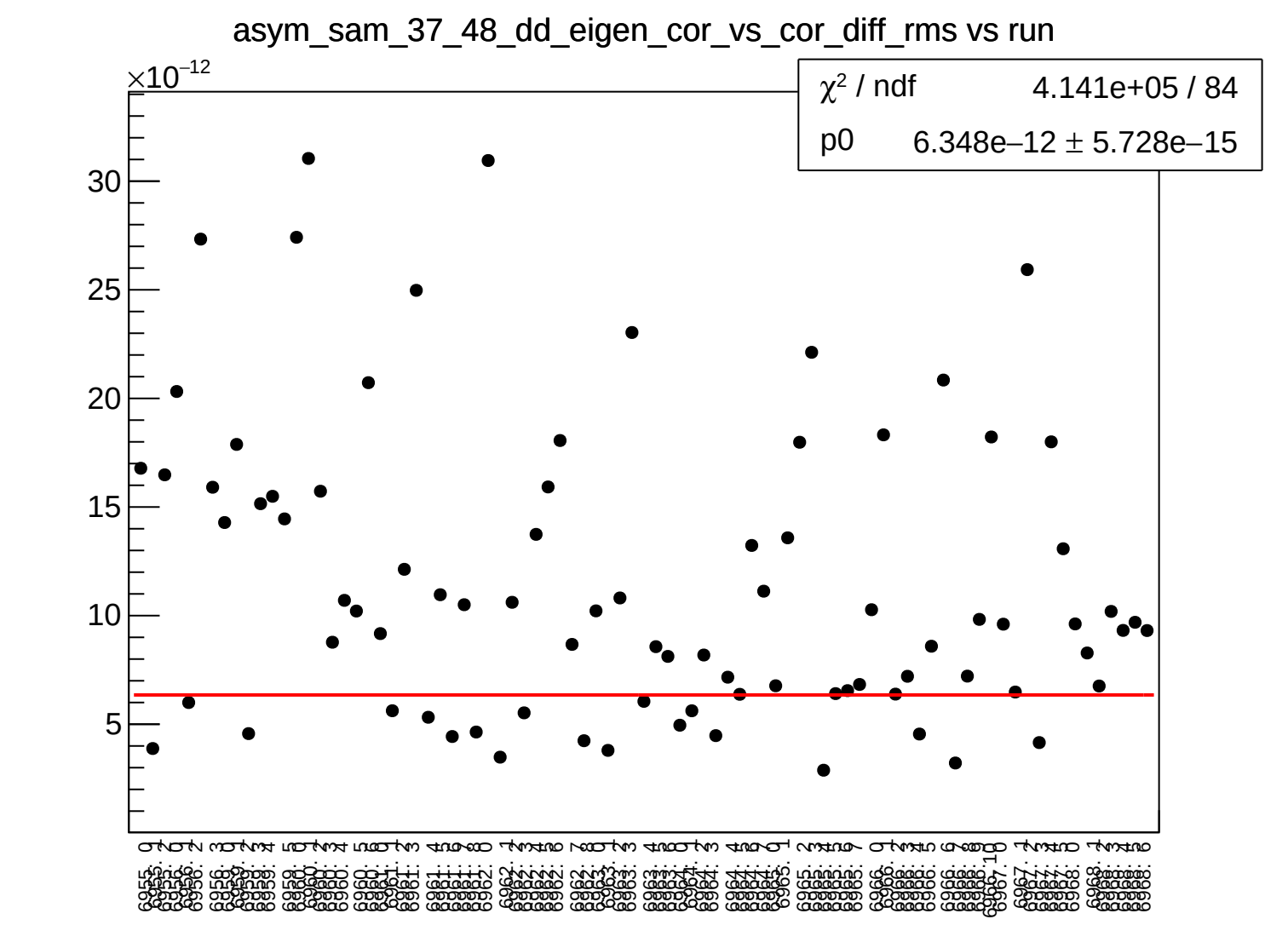

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.36 / 84
p0 −0.00343 ± 0.03253
pull
Entries 85
Mean 457.6
Std Dev 0

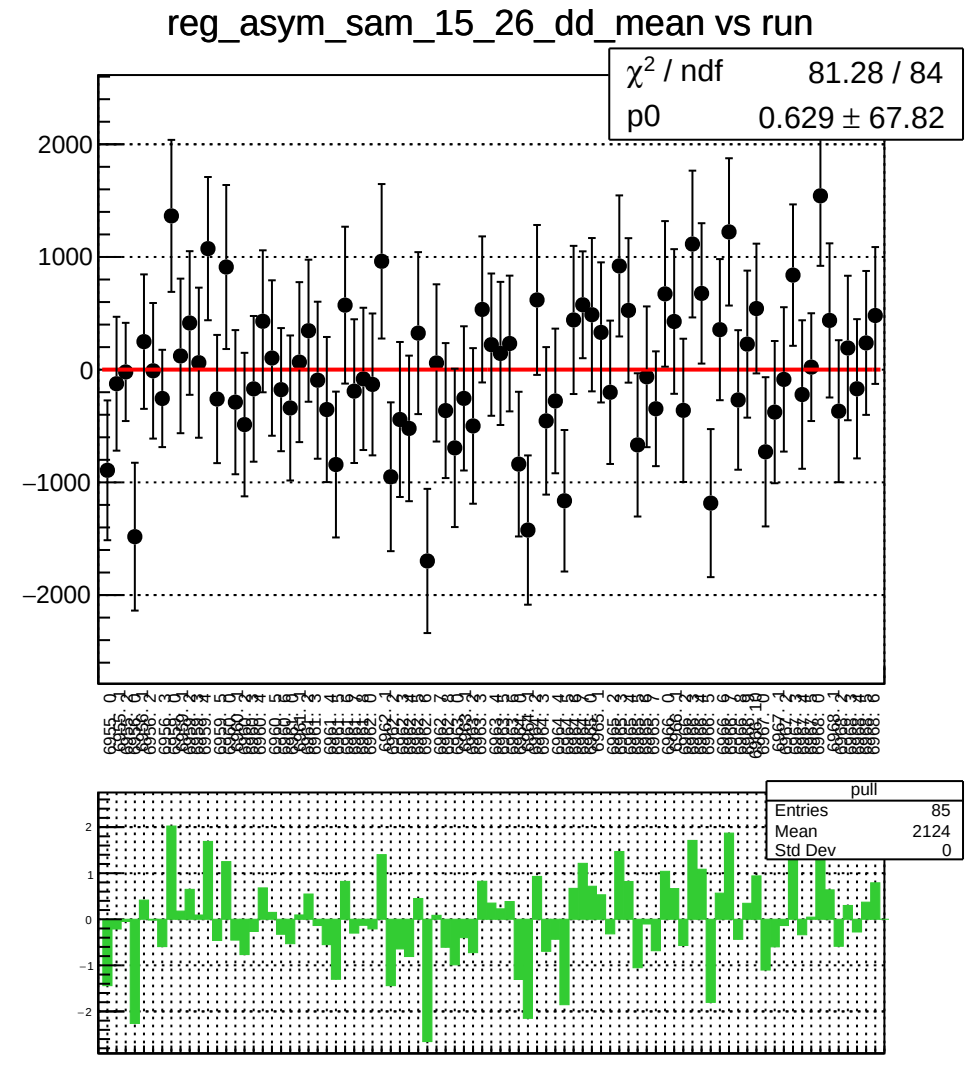

pull1D
Entries 85
Mean −0.01612
Std Dev 0.9842

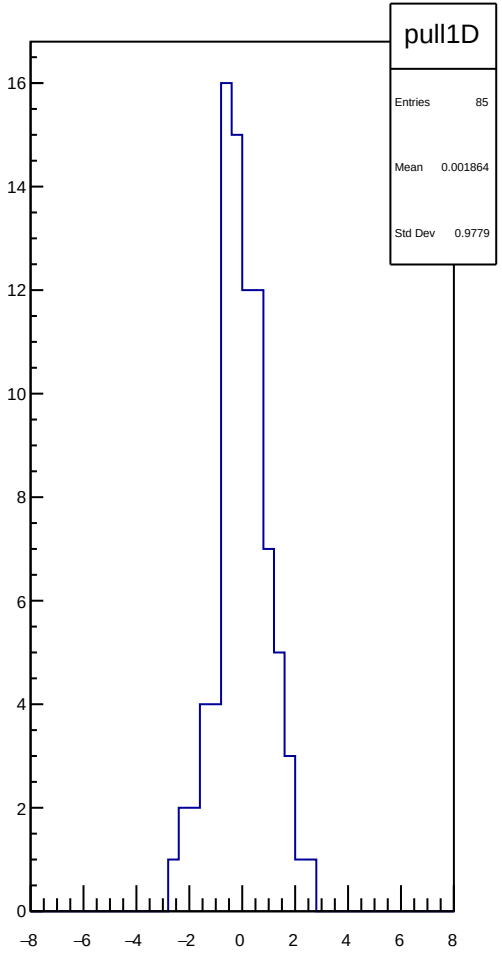

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2912 / 84
p0 29.45 ± 0.023
36
34
32
30
28

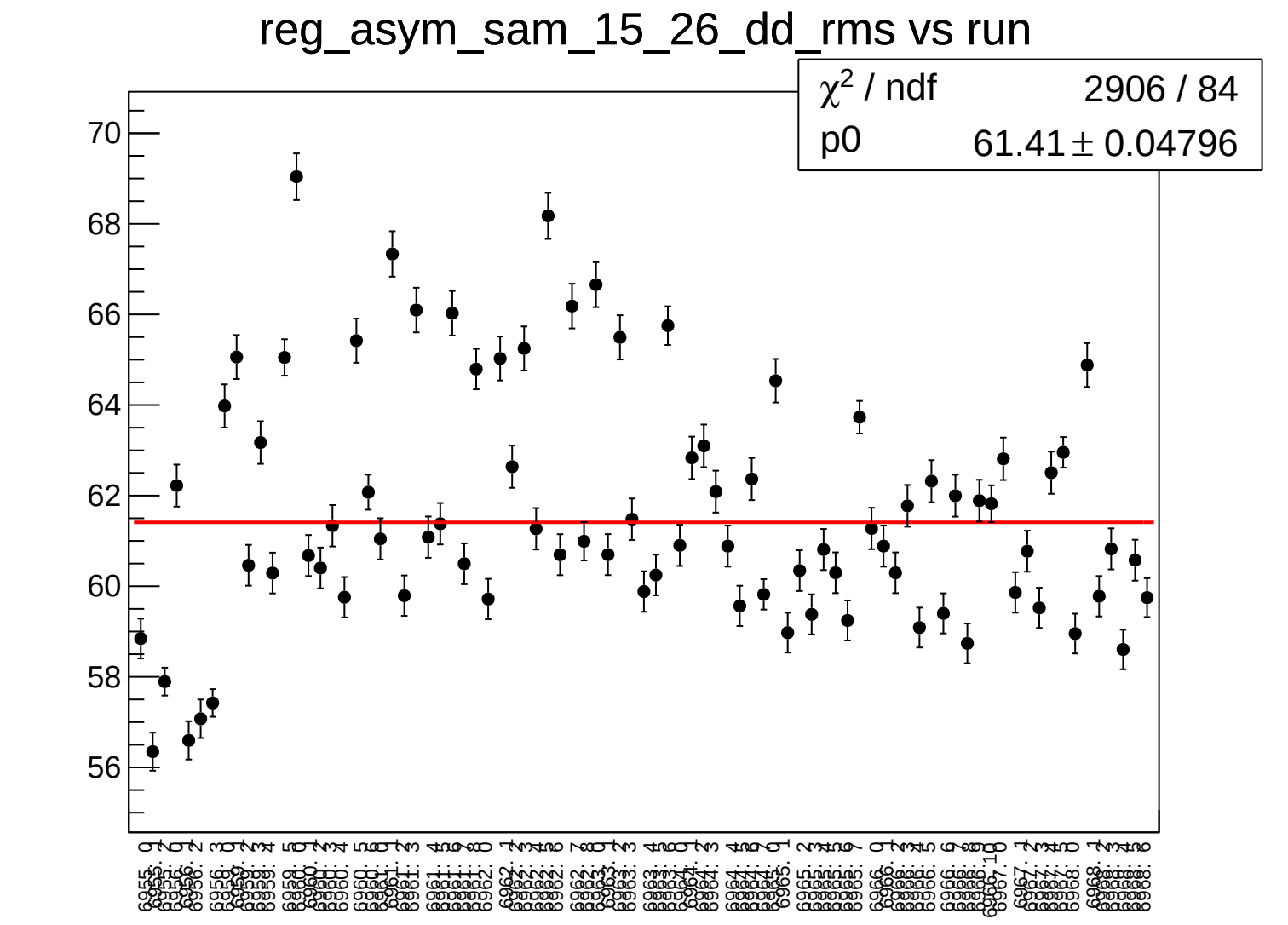

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.12 / 84
p0 −9.42e−15 ± 8.1e−15
pull
Entries 85
Mean 156.4
Std Dev 0

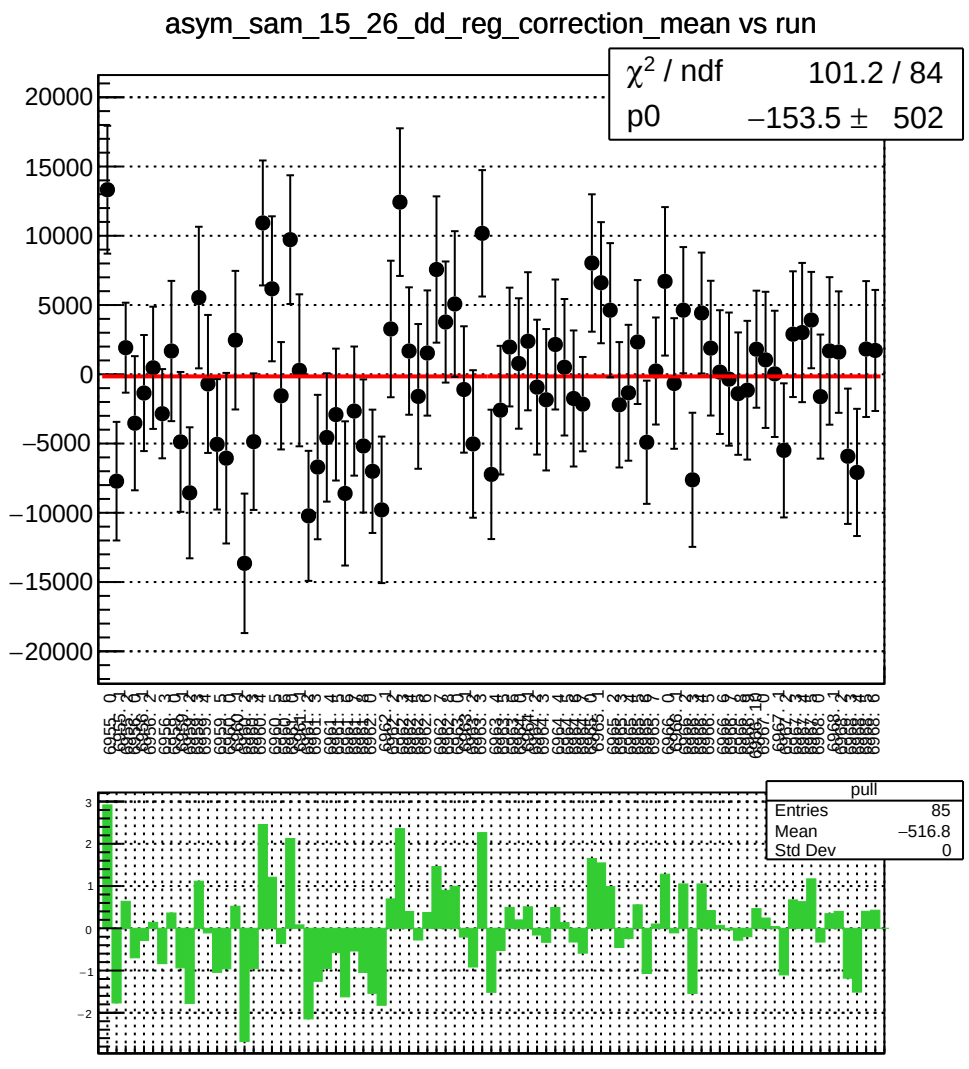

pull1D
Entries 85
Mean −0.04036
Std Dev 0.9203

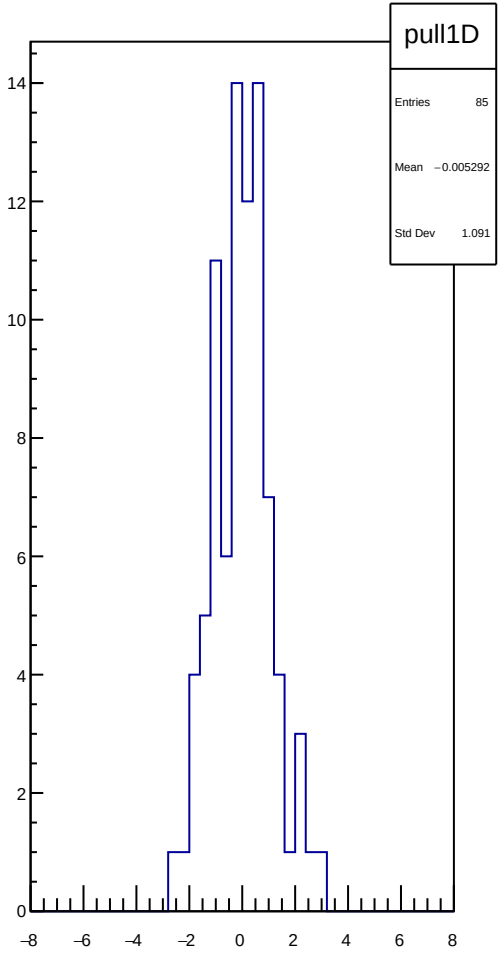

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.141e+05 / 84
p0 6.348e−12 ± 5.728e−15
30
25
20
15
10
5

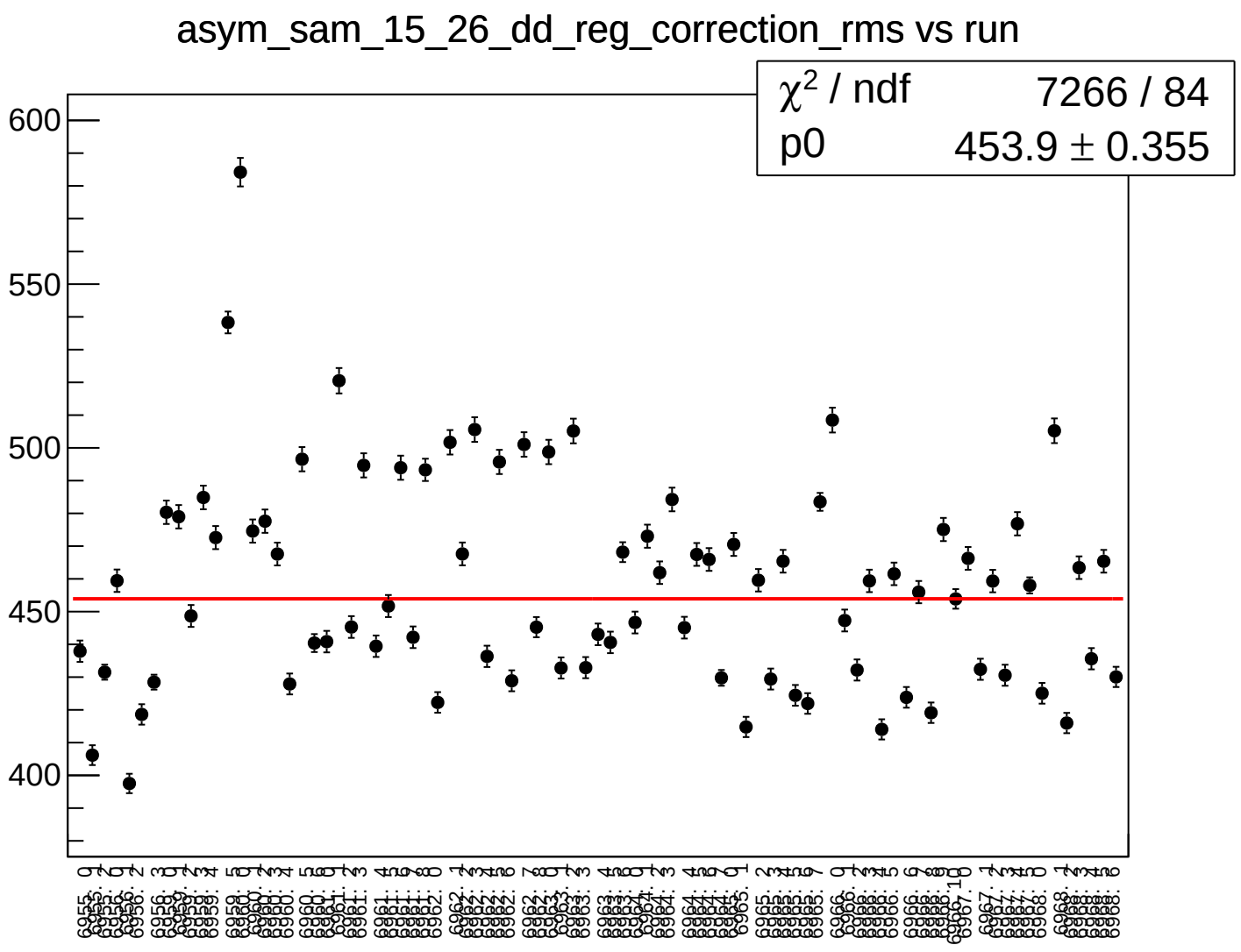

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 81.28 / 84
p0 0.629 ± 67.82
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 2124
Std Dev 0
2
1
0
−1
−2

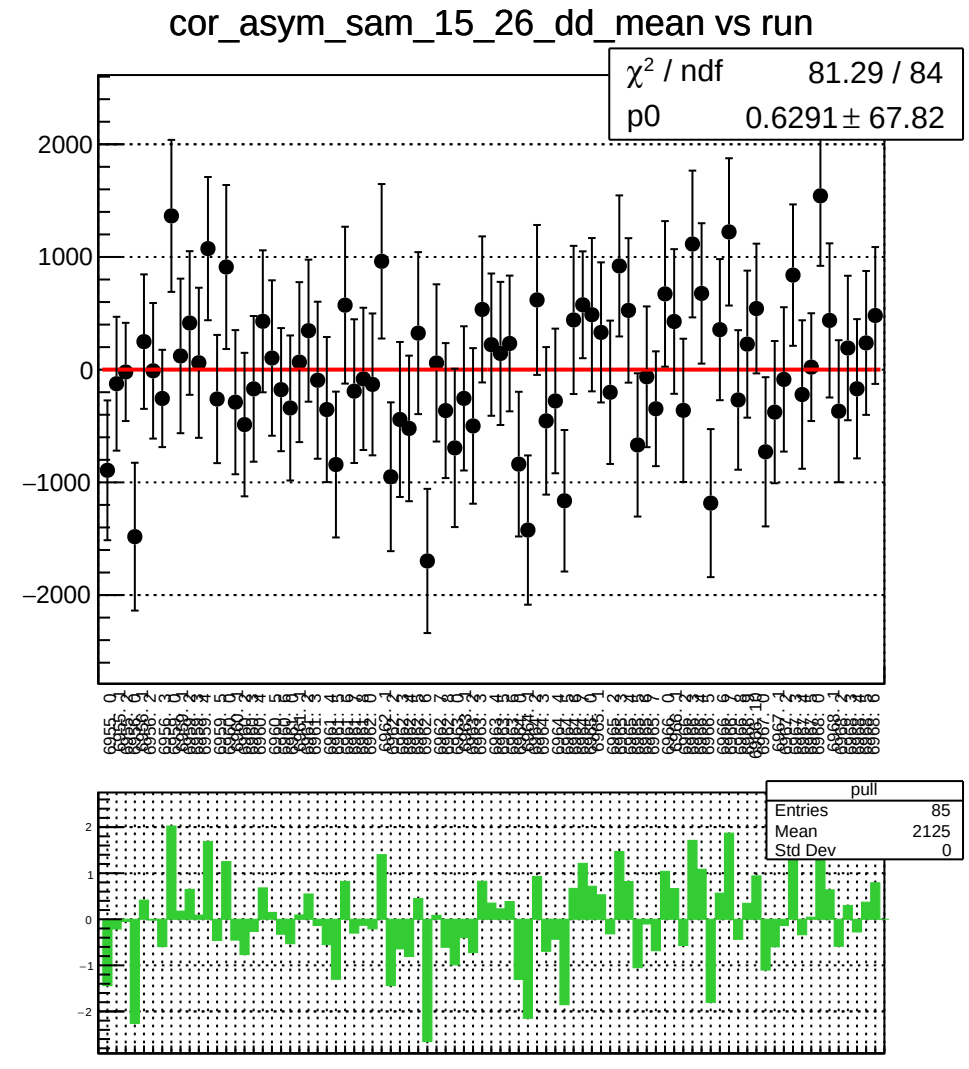

pull1D
Entries 85
Mean 0.001864
Std Dev 0.9779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

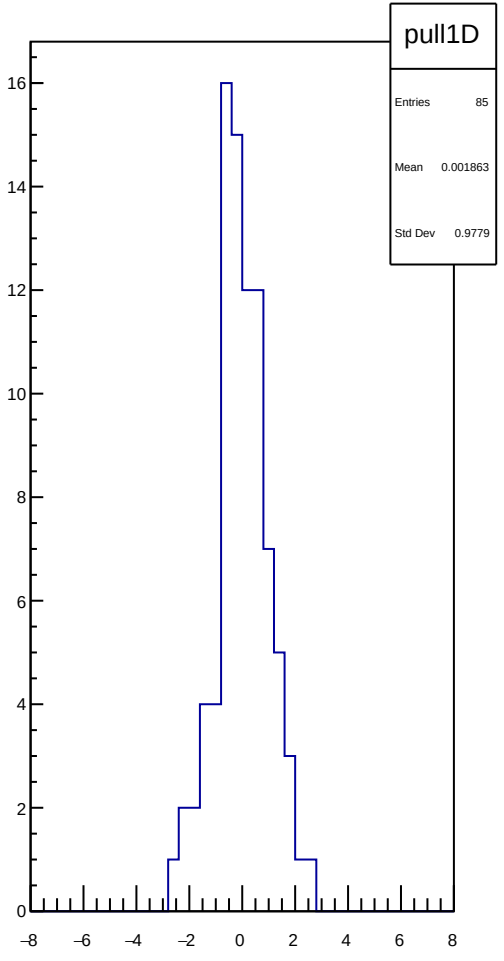

reg_asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 2906 / 84
p0 61.41 ± 0.04796
70
68
66
64
62
60
58
56

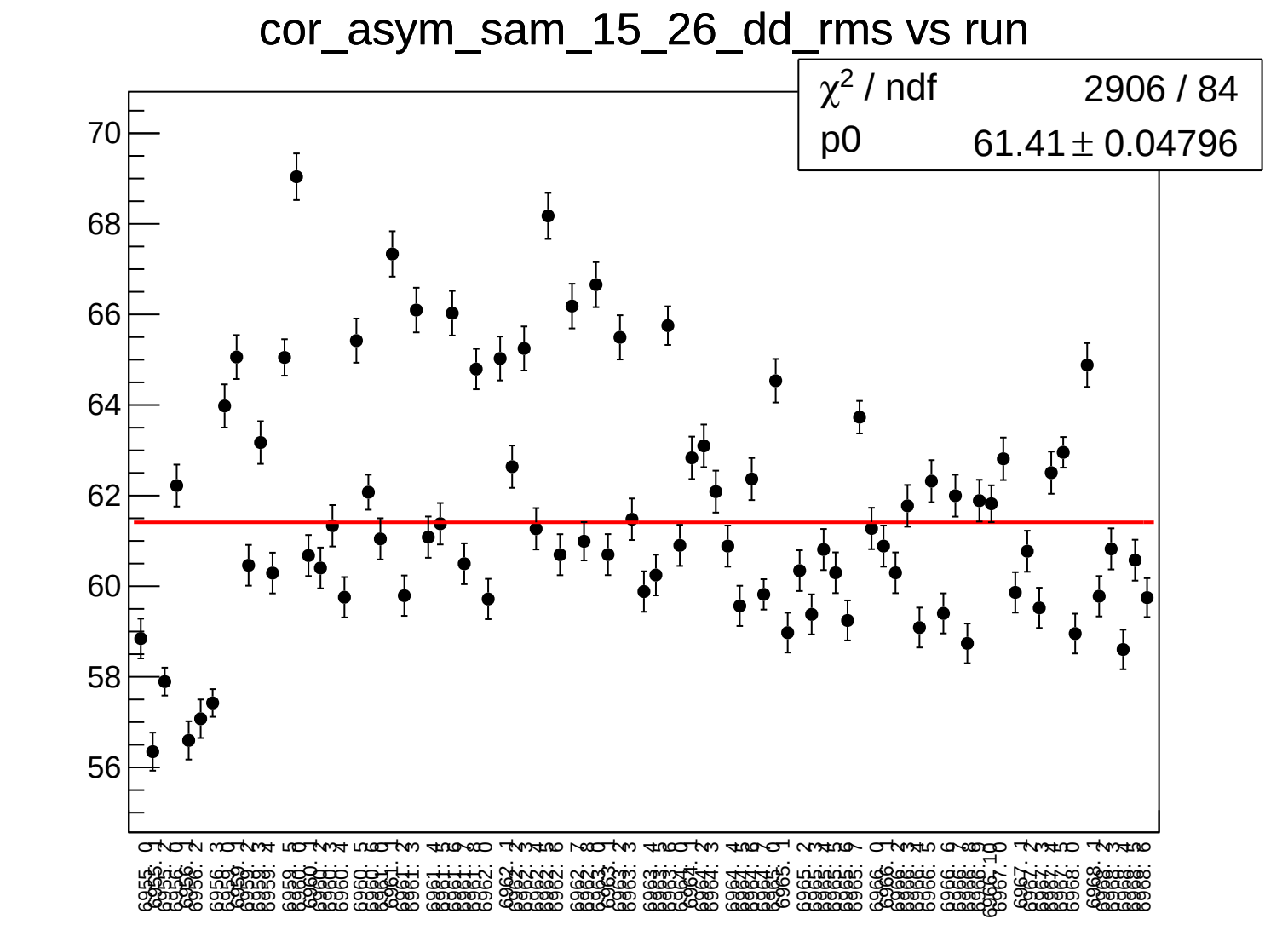

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 101.2 / 84
p0 −153.5 ± 502
pull
Entries 85
Mean −516.8
Std Dev 0

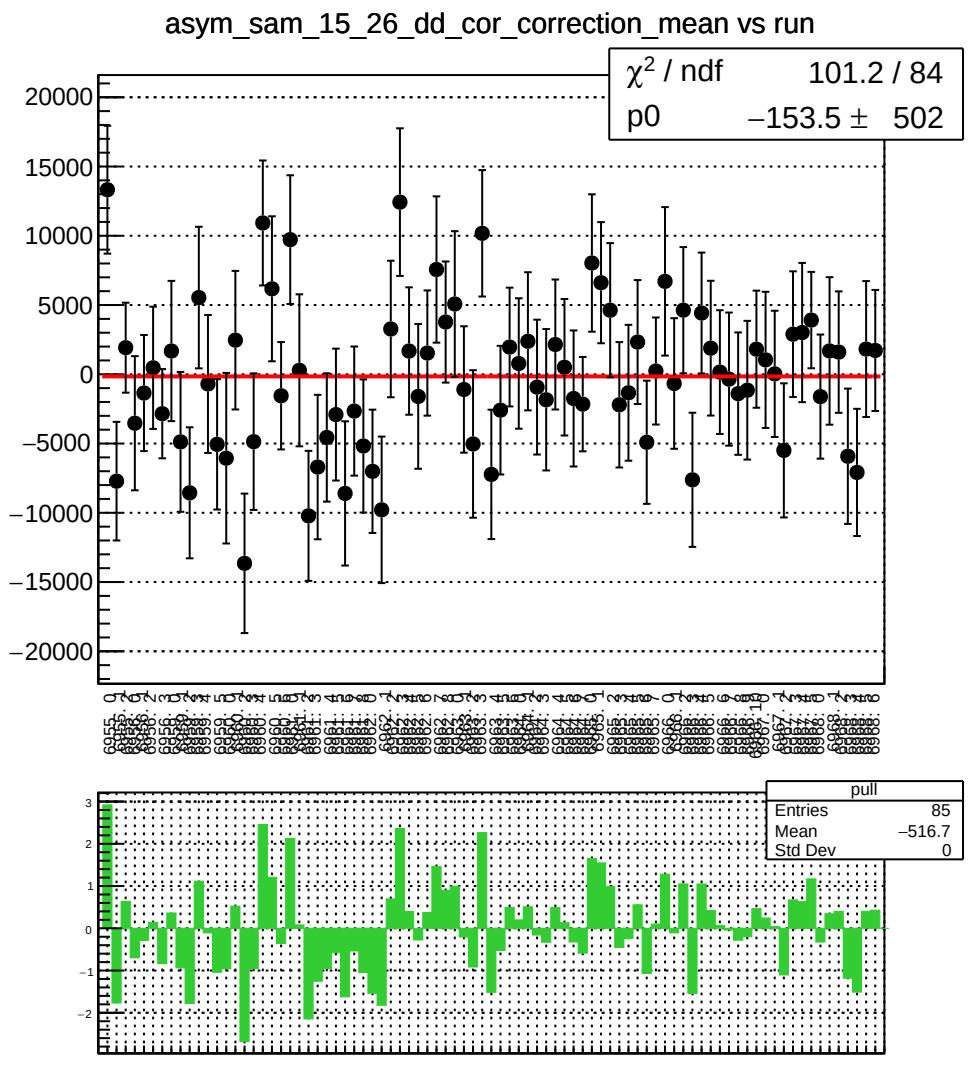

pull1D
Entries 85
Mean −0.005292
Std Dev 1.091

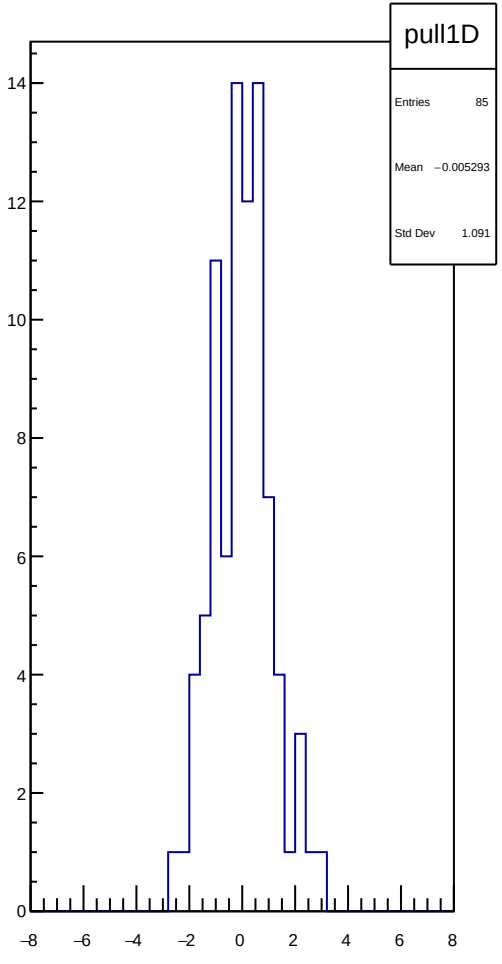

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 7266 / 84
p0 453.9 ± 0.355
600
550
500
450
400

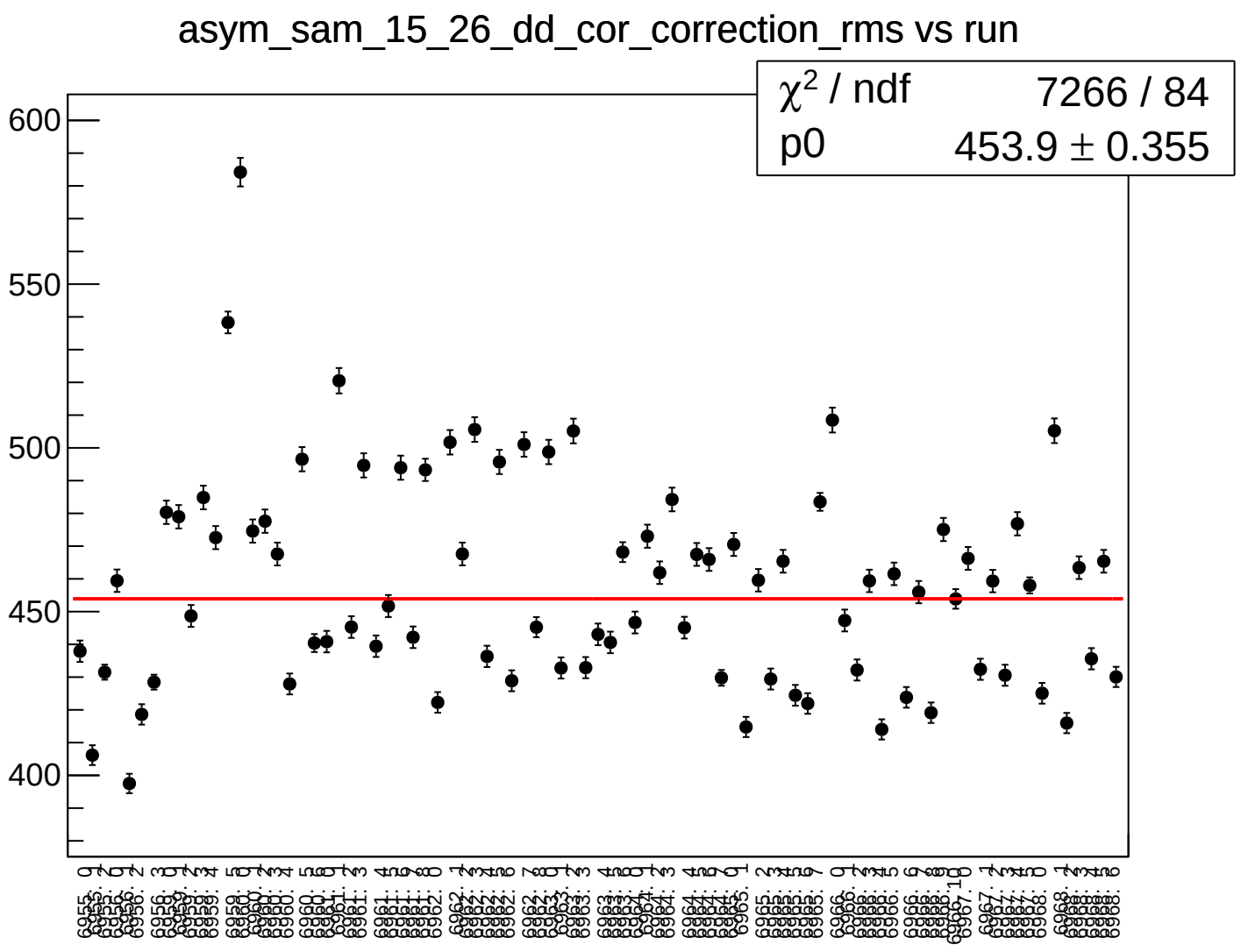

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 81.29 / 84
p0 0.6291 ± 67.82
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 2125
Std Dev 0
2
1
0
−1
−2

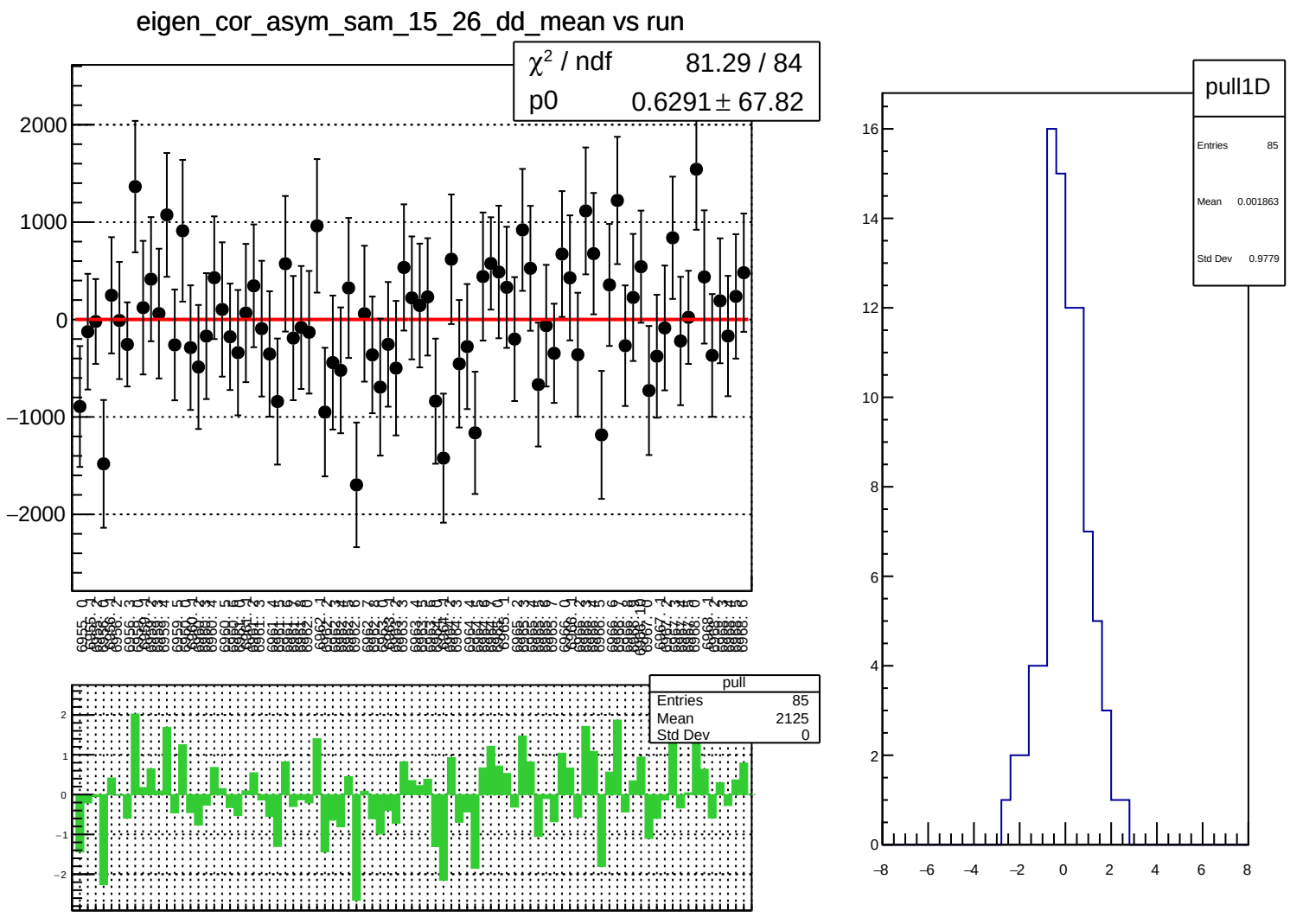

pull1D
Entries 85
Mean 0.001863
Std Dev 0.9779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

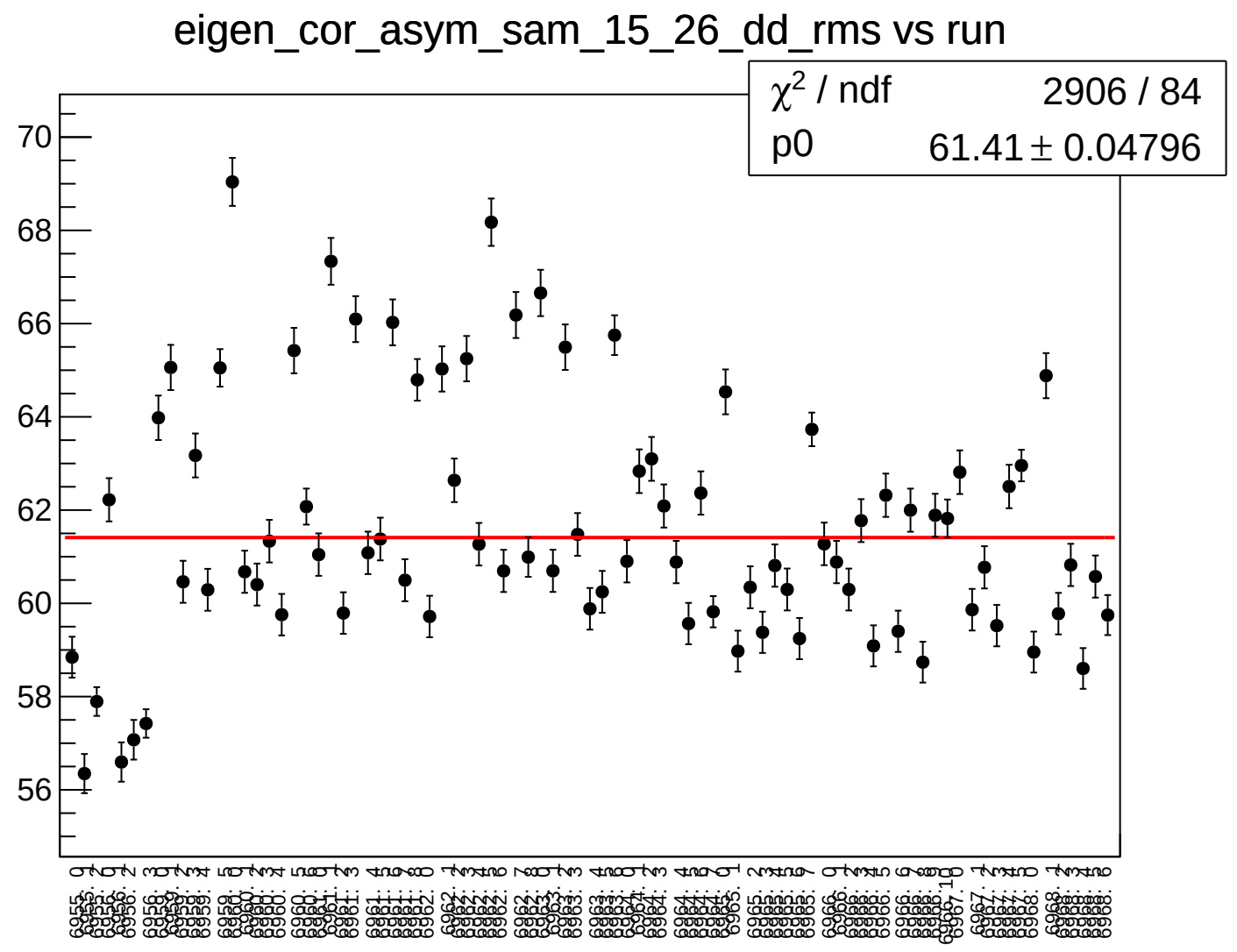

cor_asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 2906 / 84
p0 61.41 ± 0.04796
70
68
66
64
62
60
58
56

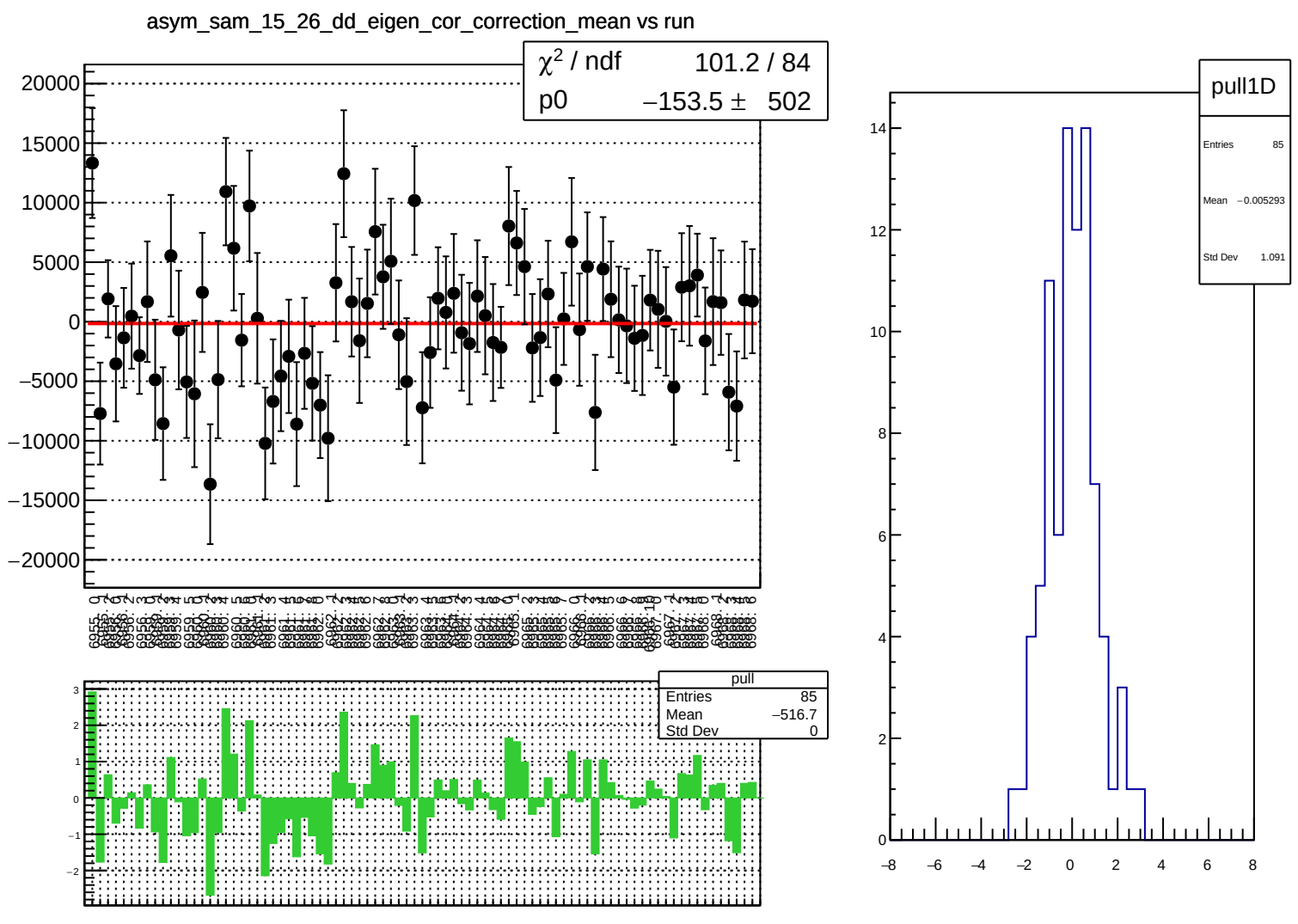

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 101.2 / 84
p0 −153.5 ± 502
pull
Entries 85
Mean −516.7
Std Dev 0

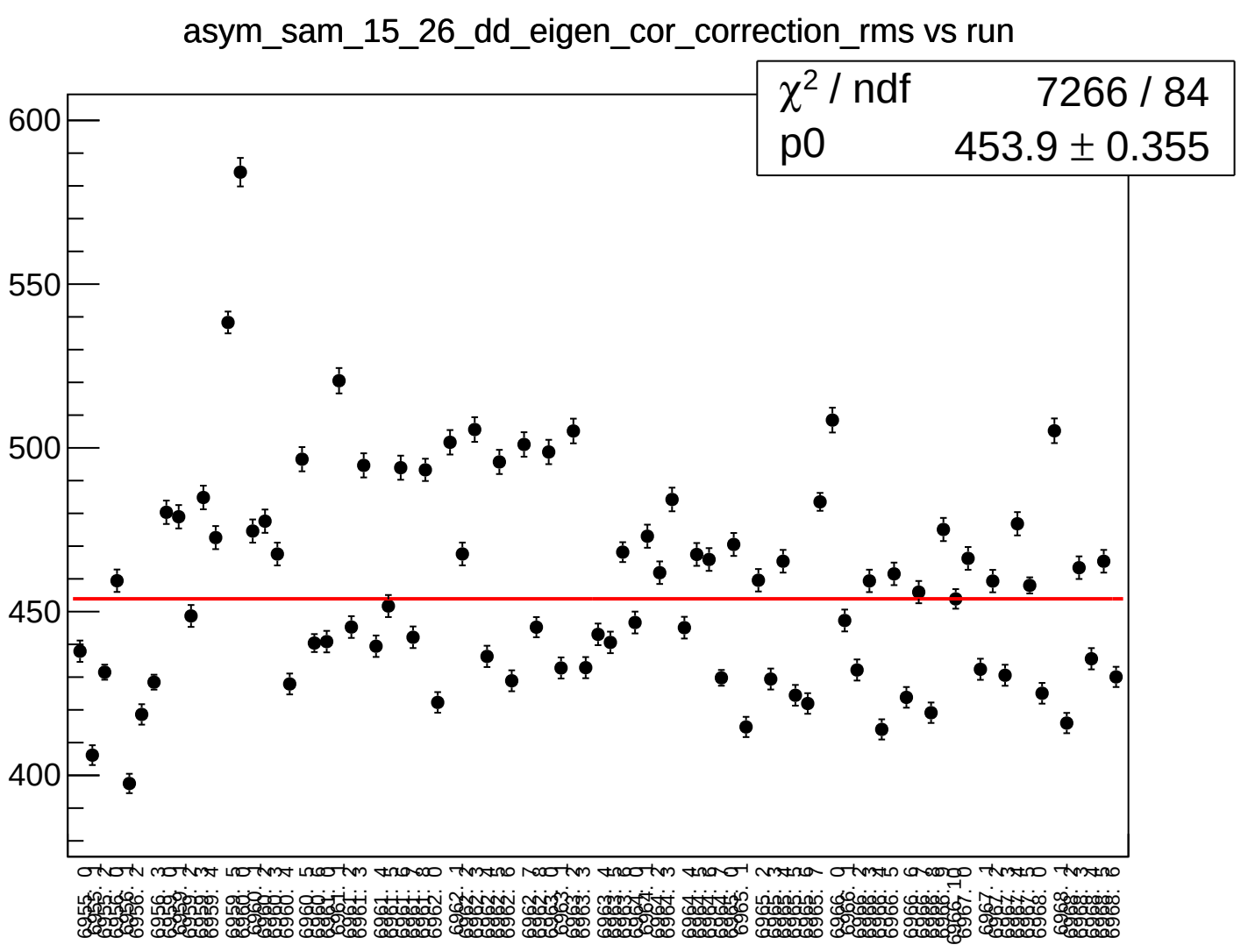

pull1D
Entries 85
Mean −0.005293
Std Dev 1.091

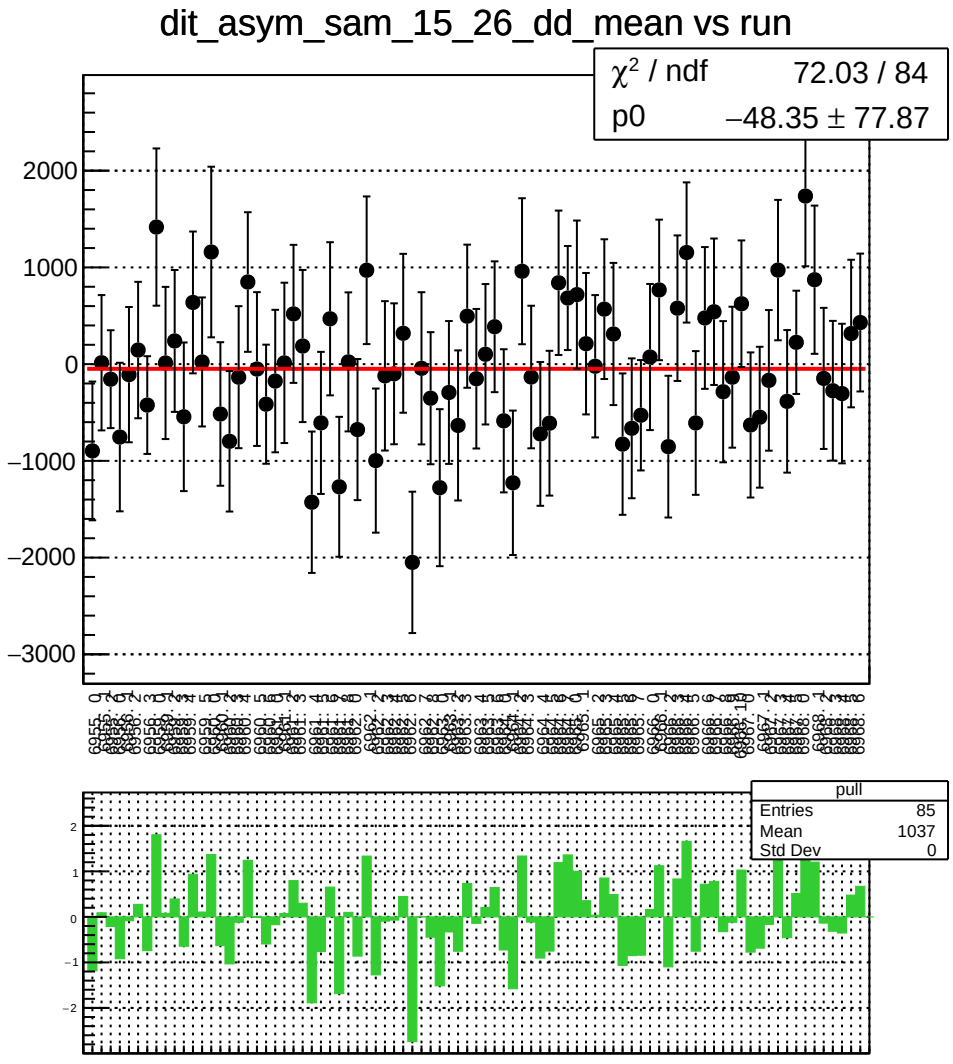

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 7266 / 84
p0 453.9 ± 0.355
600
550
500
450
400

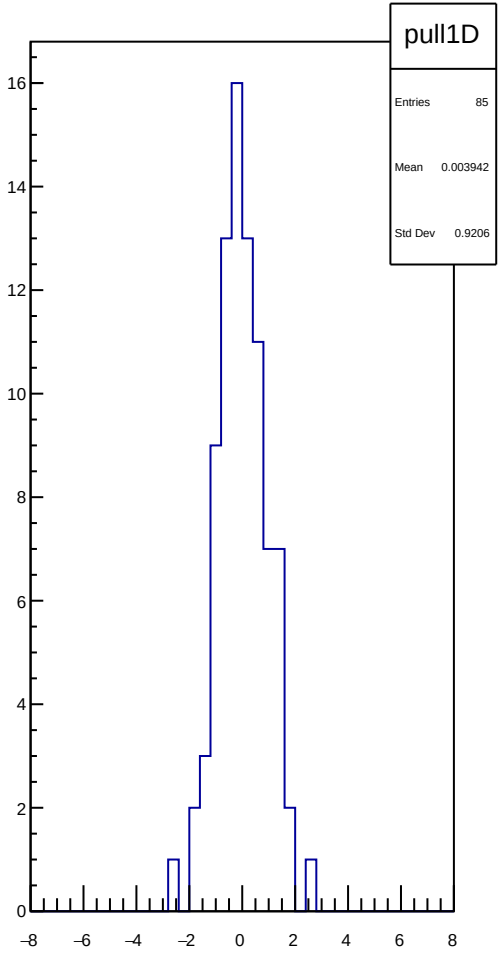

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 81.29 / 84
p0 0.6291 ± 67.82
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 2125
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.001863
Std Dev 0.9779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

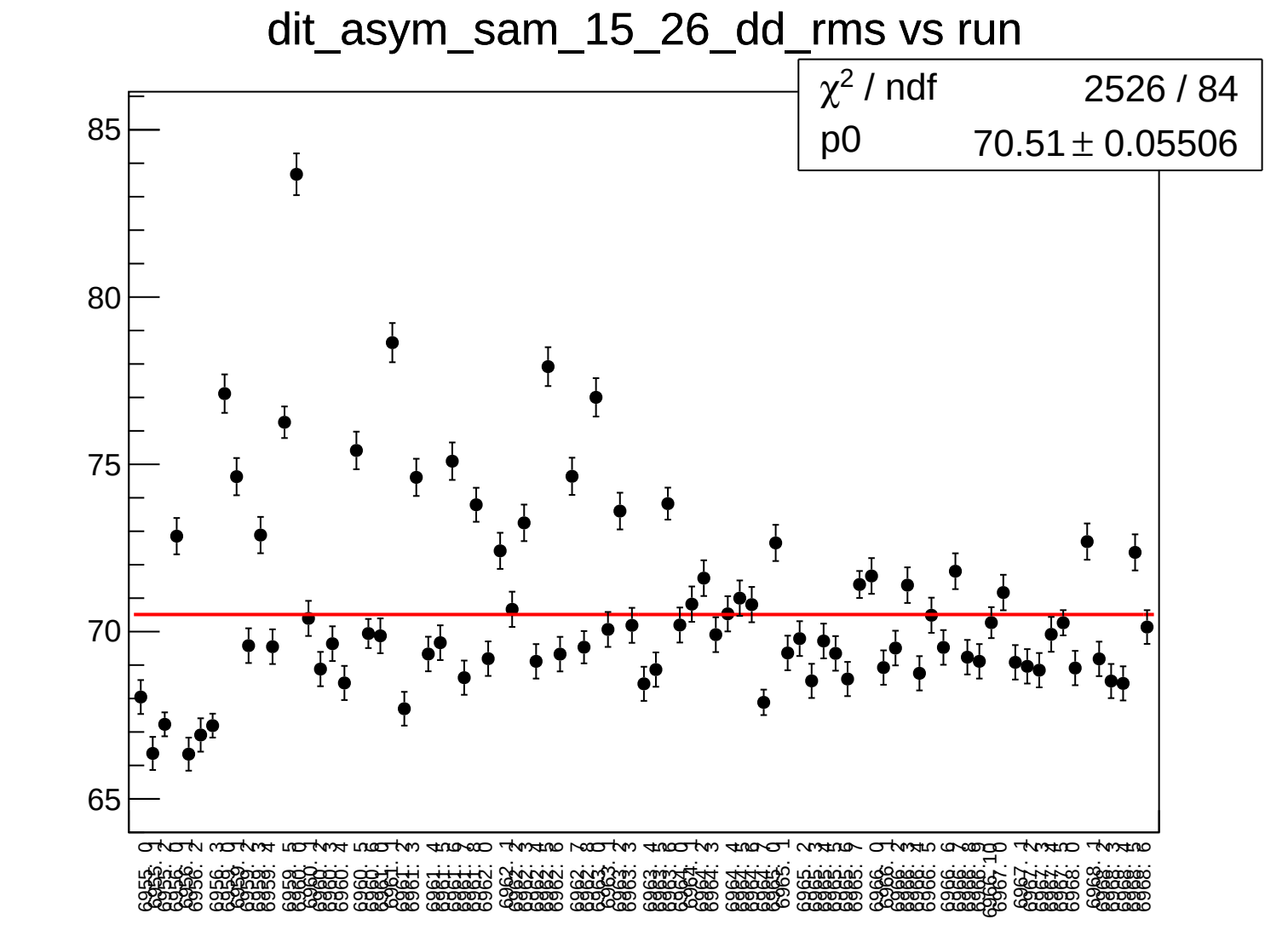

eigen_cor_asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 2906 / 84
p0 61.41 ± 0.04796
70
68
66
64
62
60
58
56

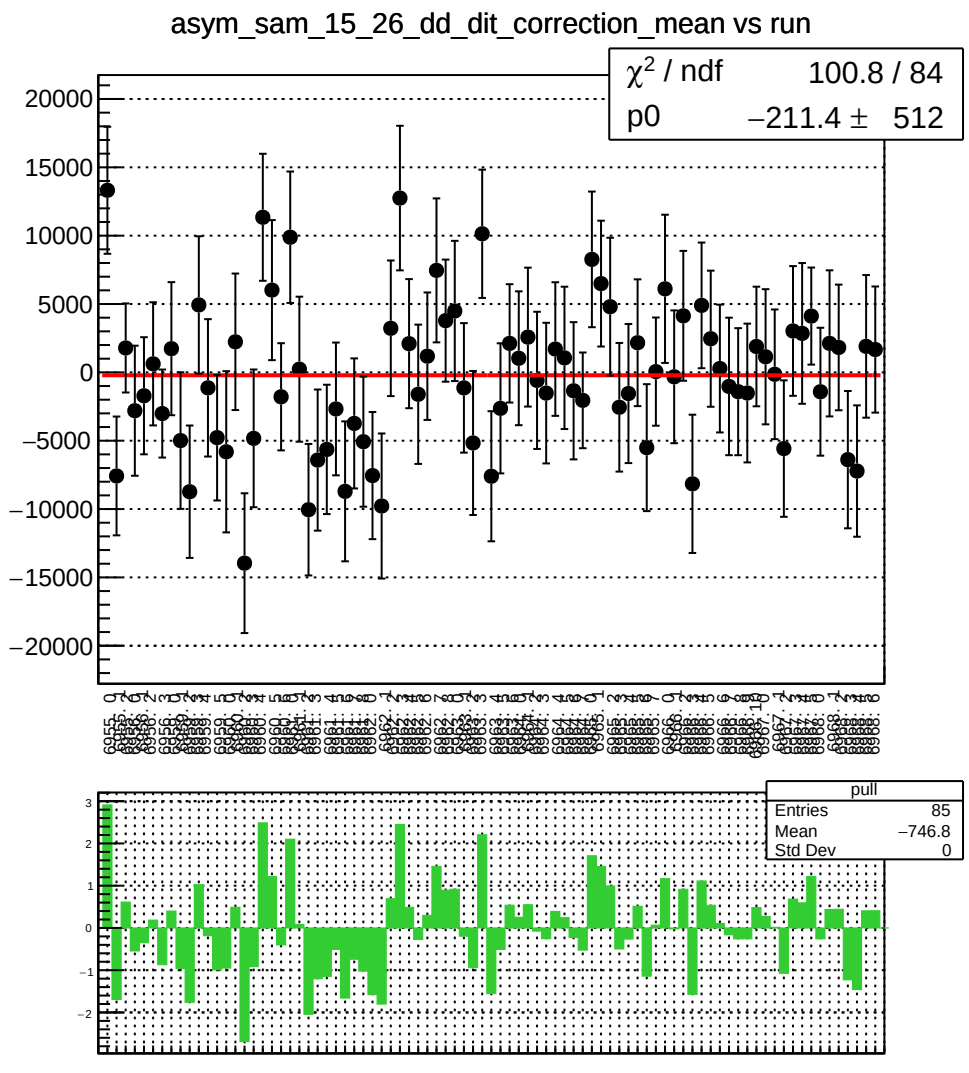

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.2 / 84
p0 −153.5 ± 502
pull
Entries 85
Mean −516.7
Std Dev 0
pull1D
Entries 85
Mean −0.005293
Std Dev 1.091

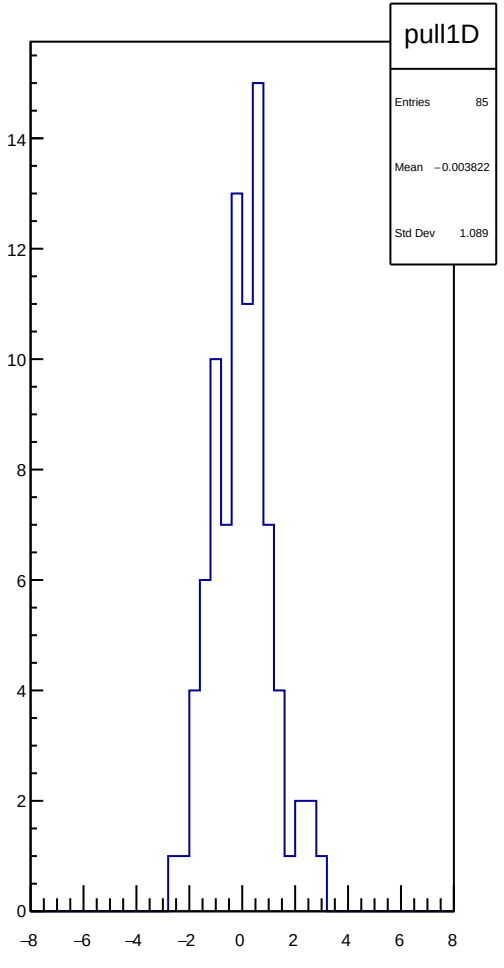

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 7266 / 84
p0 453.9 ± 0.355
600
550
500
450
400

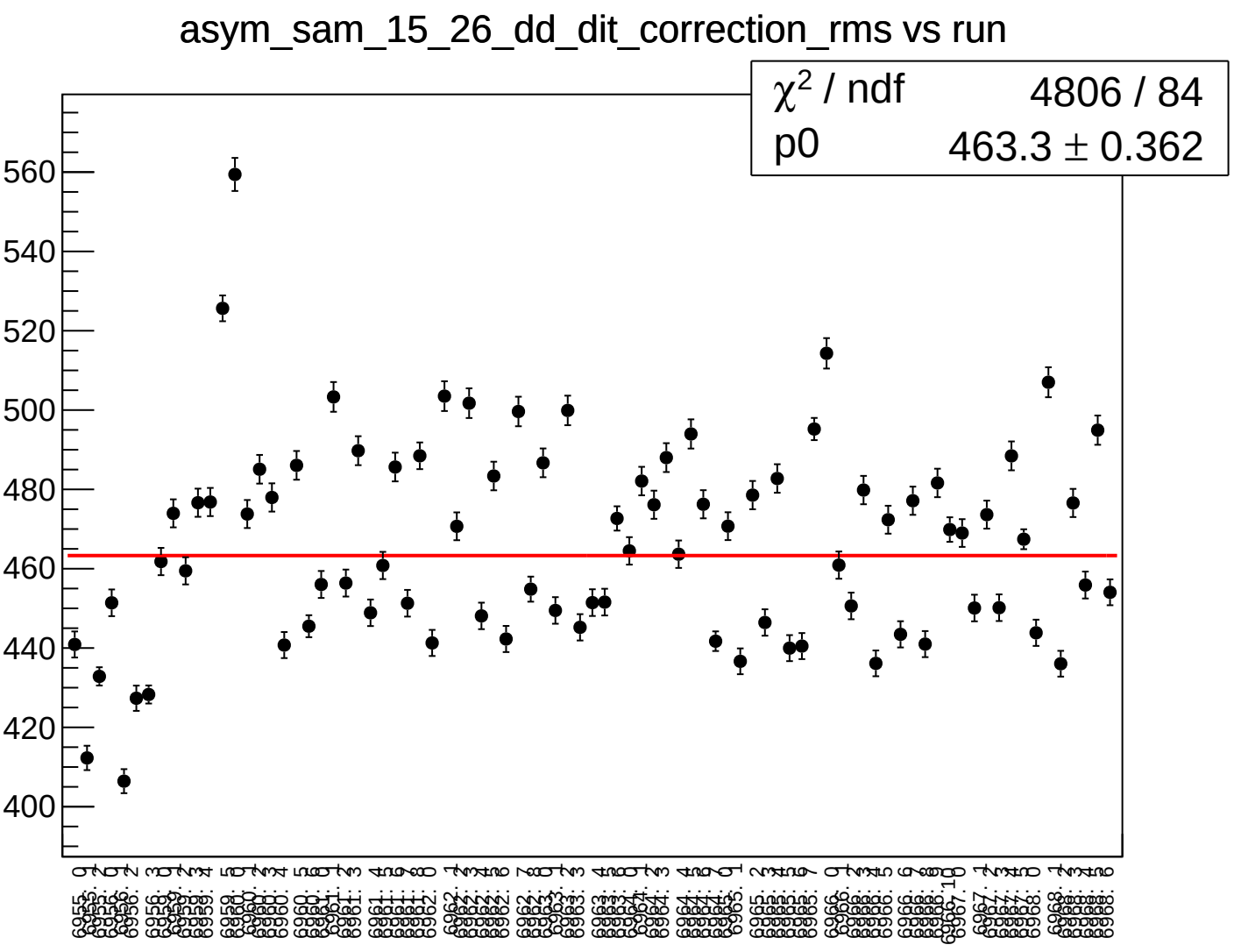

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 72.03 / 84
p0 −48.35 ± 77.87
pull
Entries 85
Mean 1037
Std Dev 0

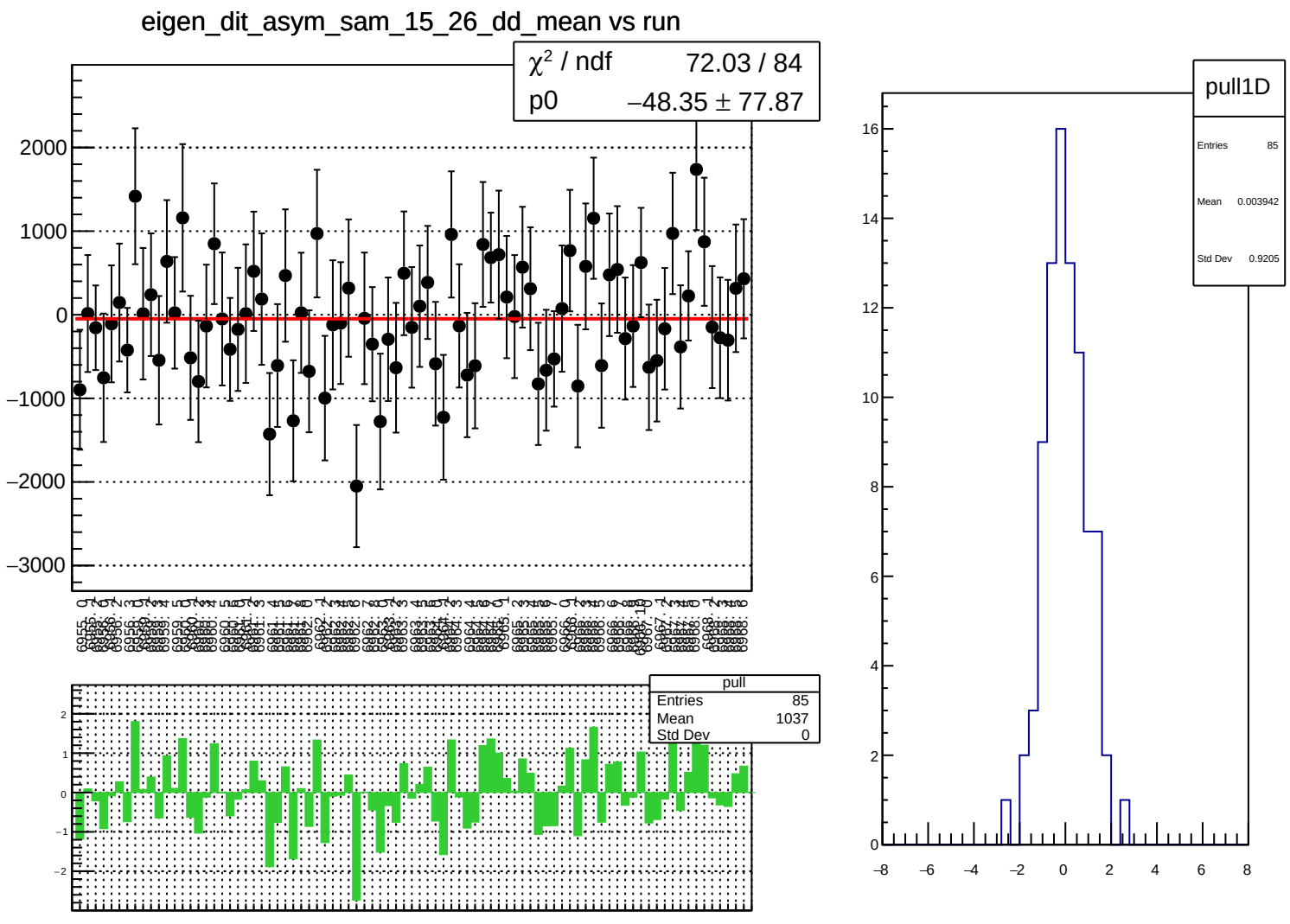

pull1D
Entries 85
Mean 0.003942
Std Dev 0.9206

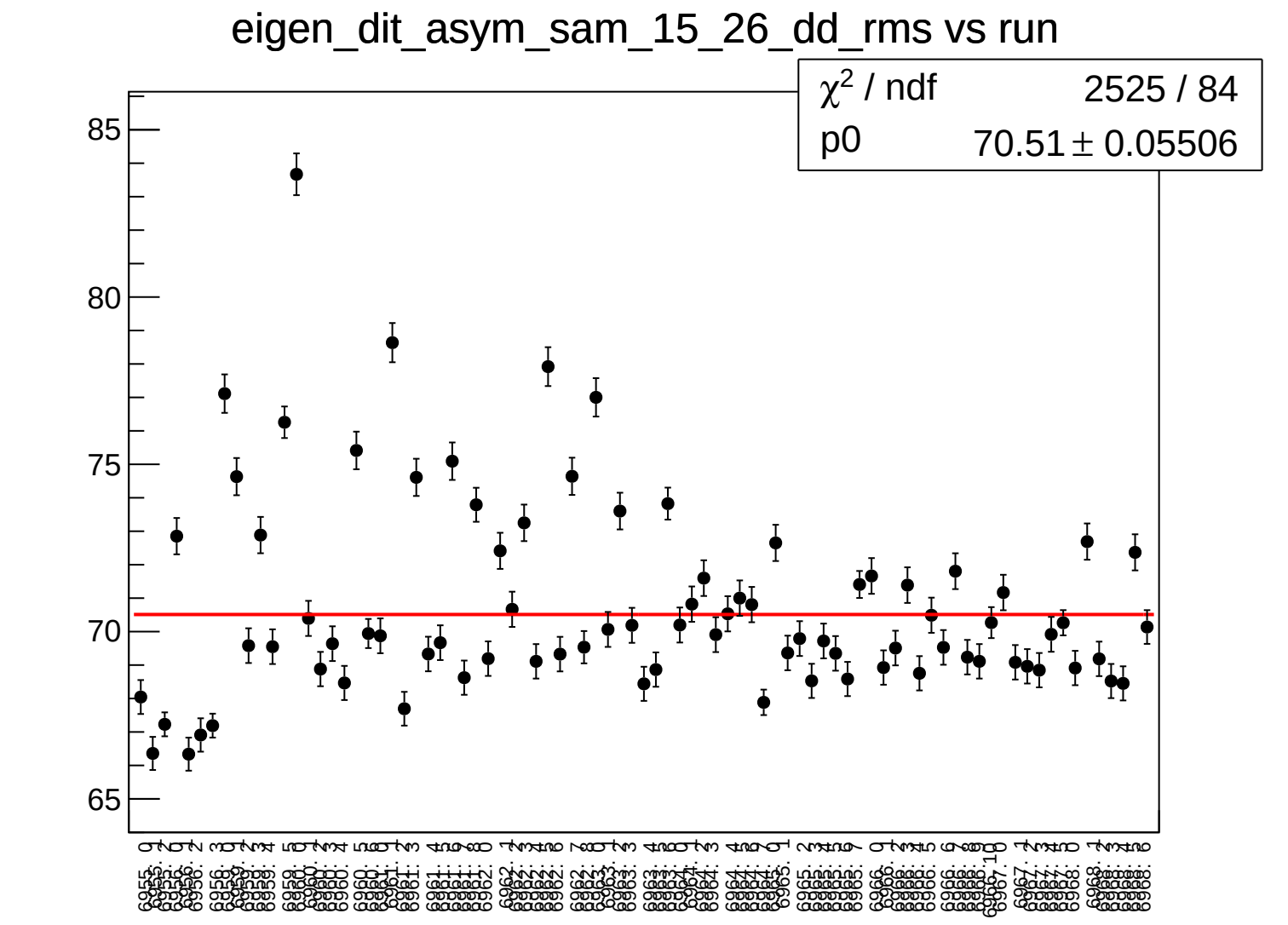

dit_asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 2526 / 84
p0 70.51 ± 0.05506
85
80
75
70
65

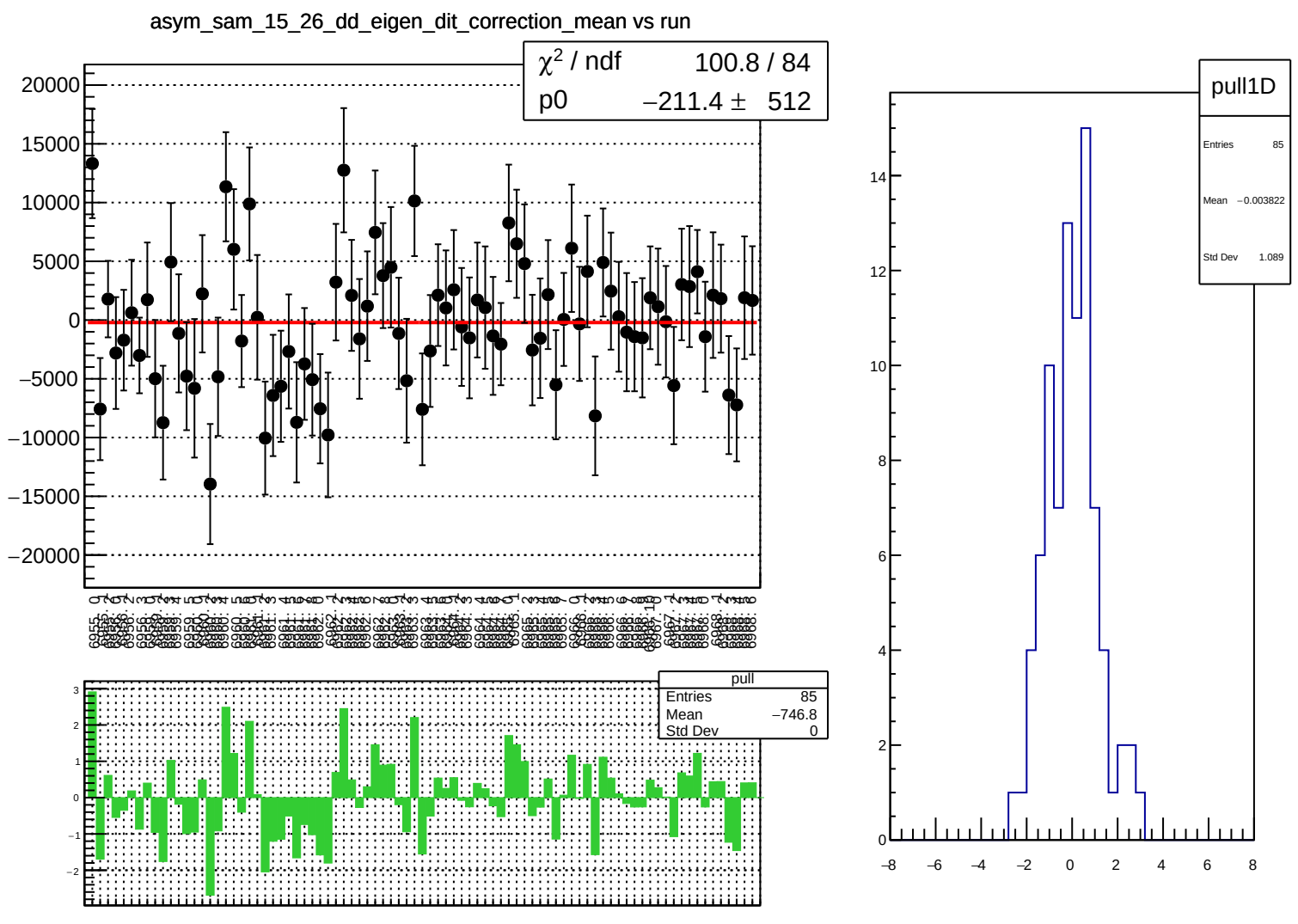

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 100.8 / 84
p0 −211.4 ± 512
pull
Entries 85
Mean −746.8
Std Dev 0

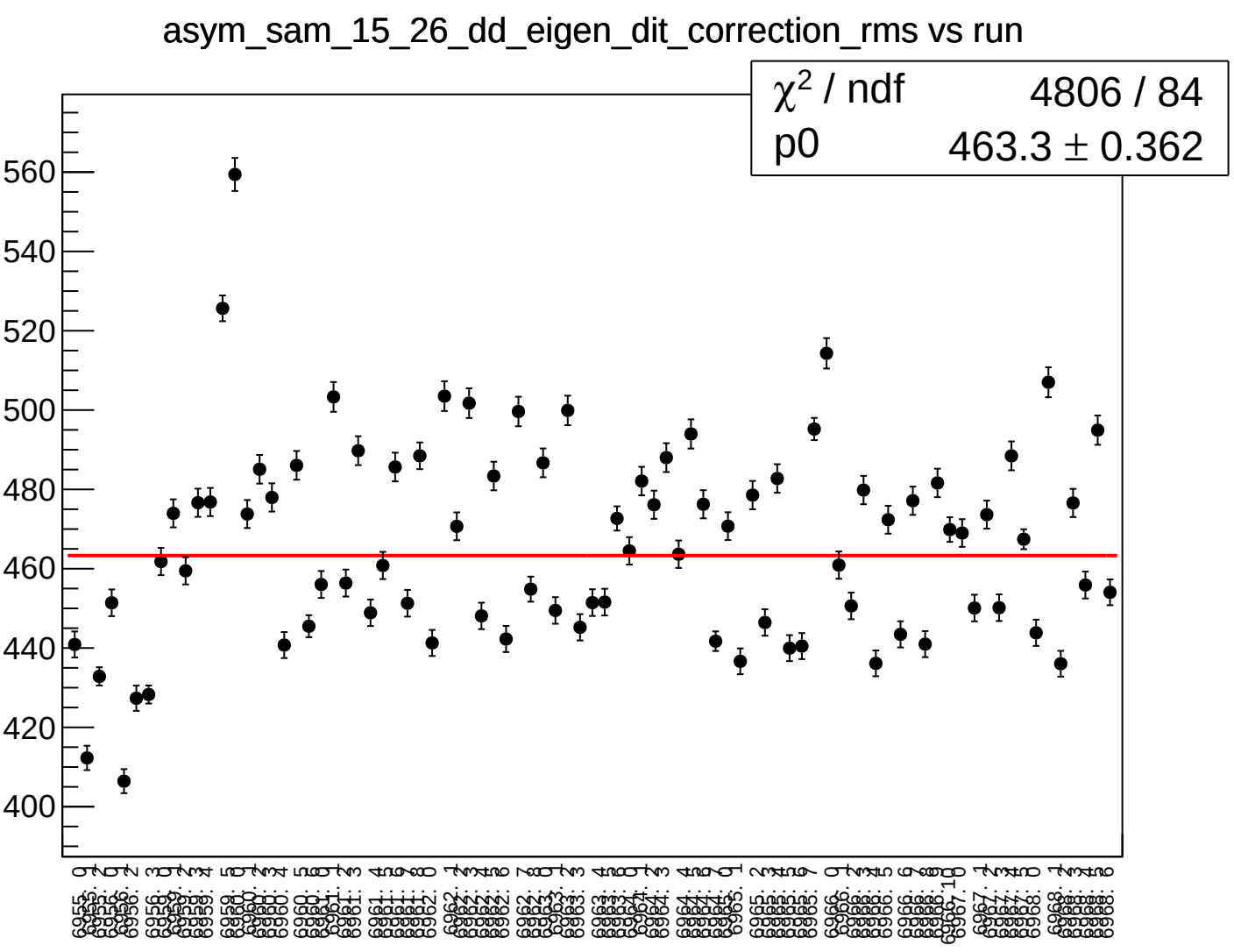

pull1D
Entries 85
Mean −0.003822
Std Dev 1.089

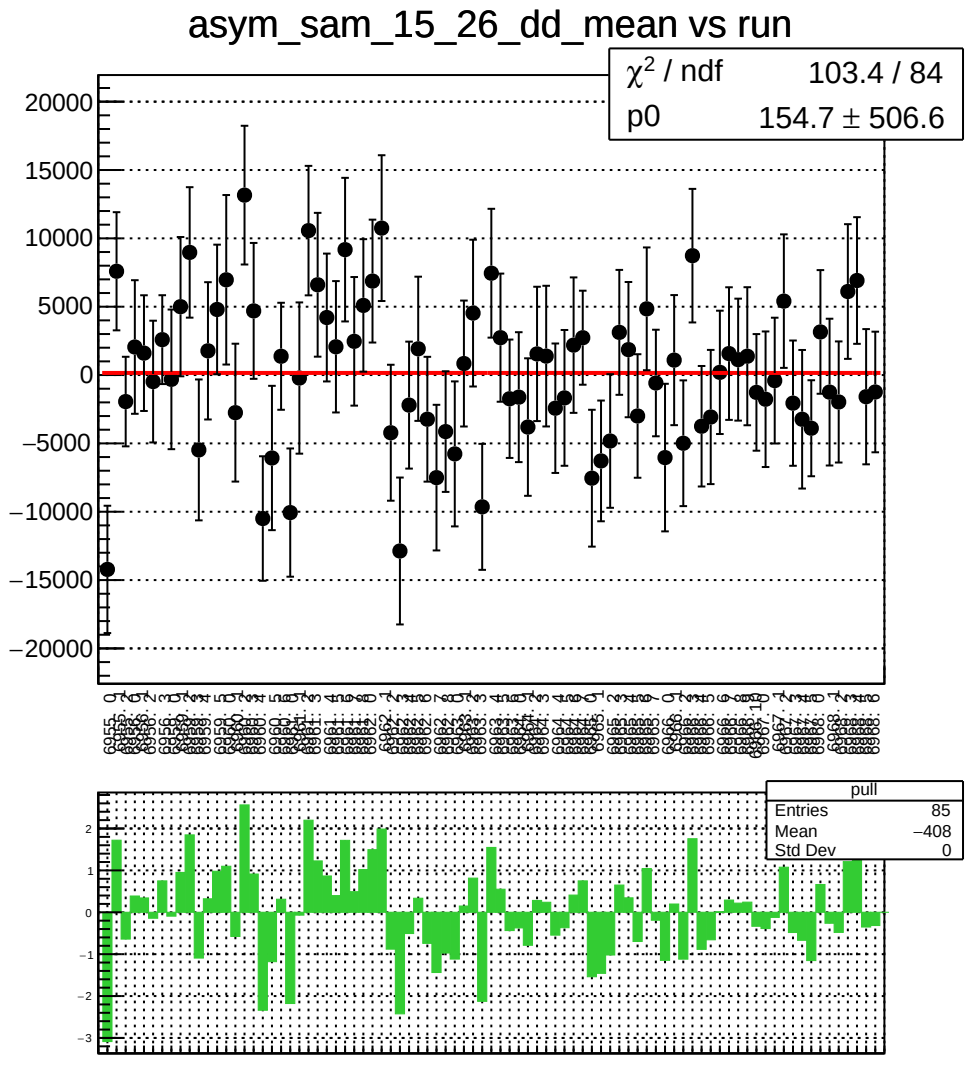

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 4806 / 84
p0 463.3 ± 0.362
560
540
520
500
480
460
440
420
400

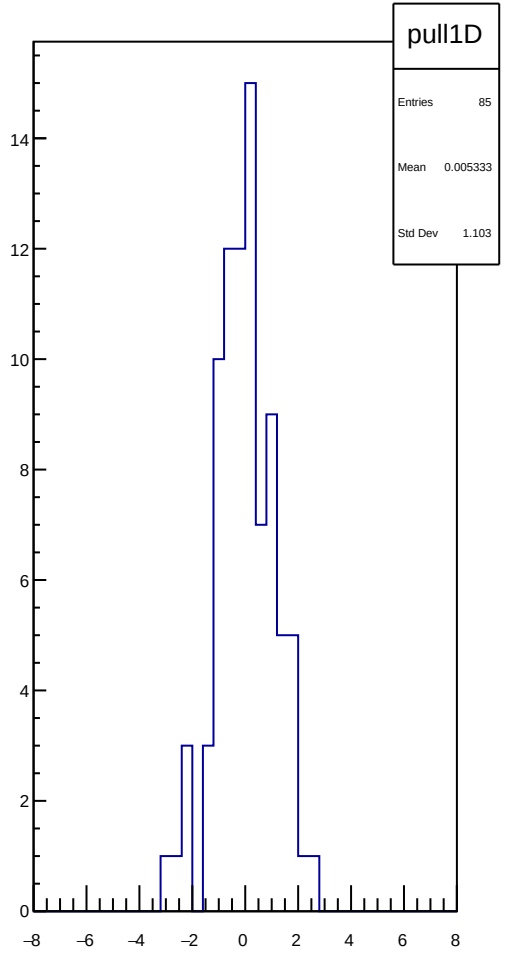

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 72.03 / 84
p0 −48.35 ± 77.87
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 1037
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.003942
Std Dev 0.9205
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

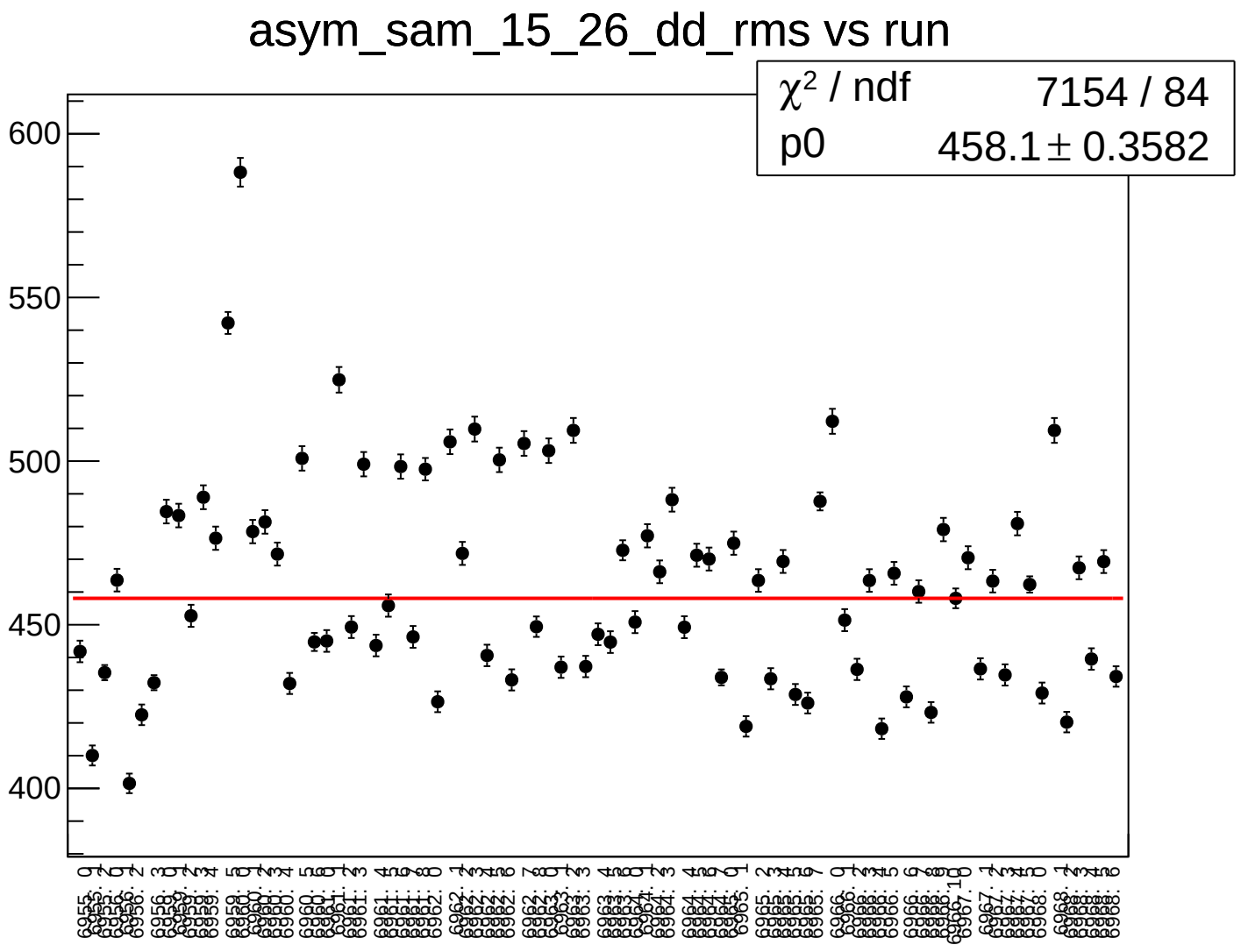

eigen_dit_asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 2525 / 84
p0 70.51 ± 0.05506
85
80
75
70
65

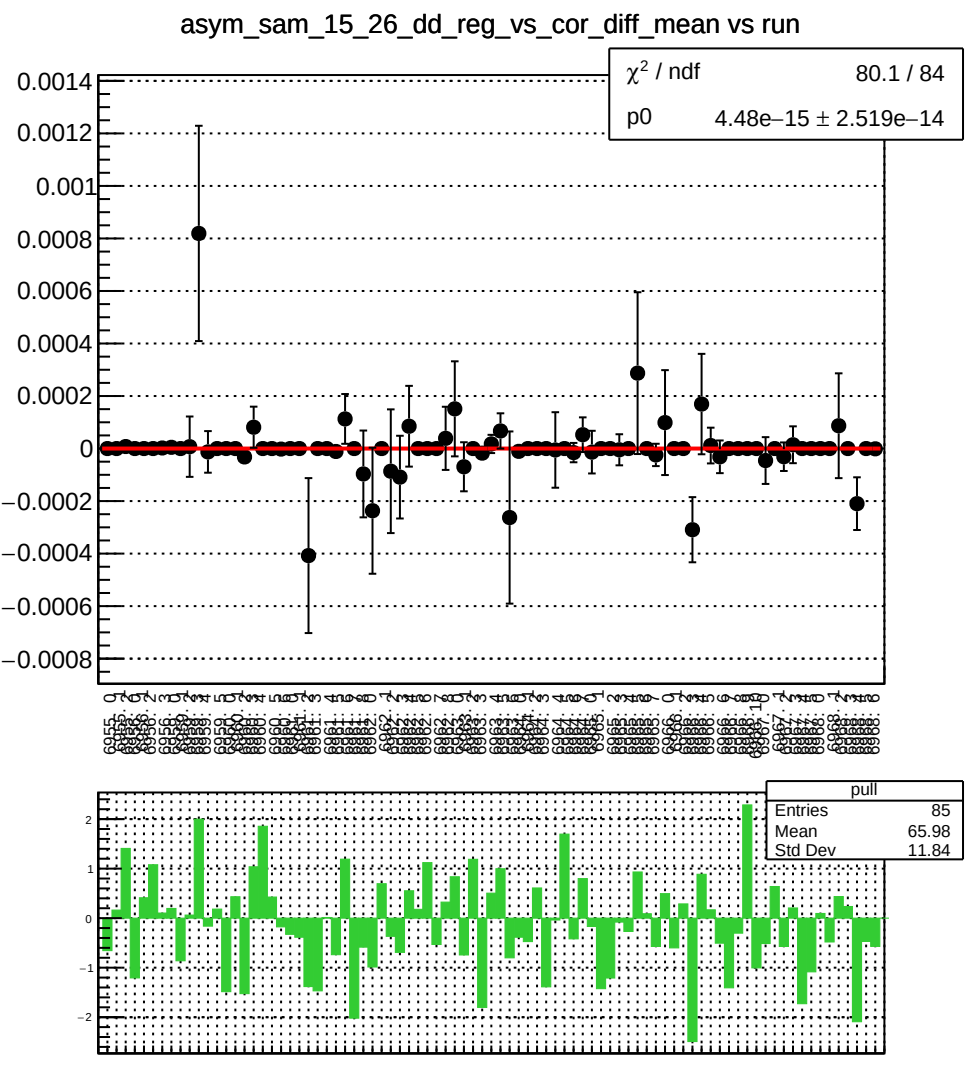

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.8 / 84
p0 −211.4 ± 512
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean −746.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.003822
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

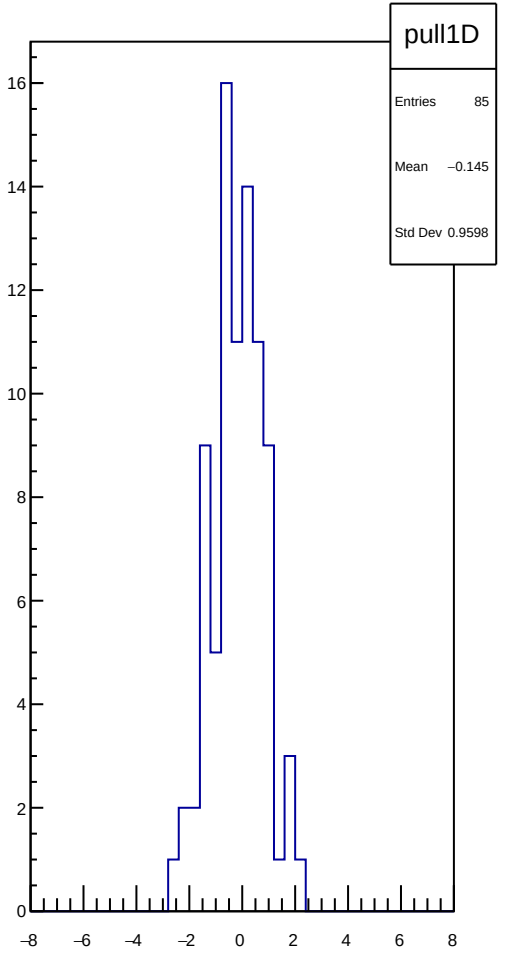

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4806 / 84
p0 463.3 ± 0.362
560
540
520
500
480
460
440
420
400

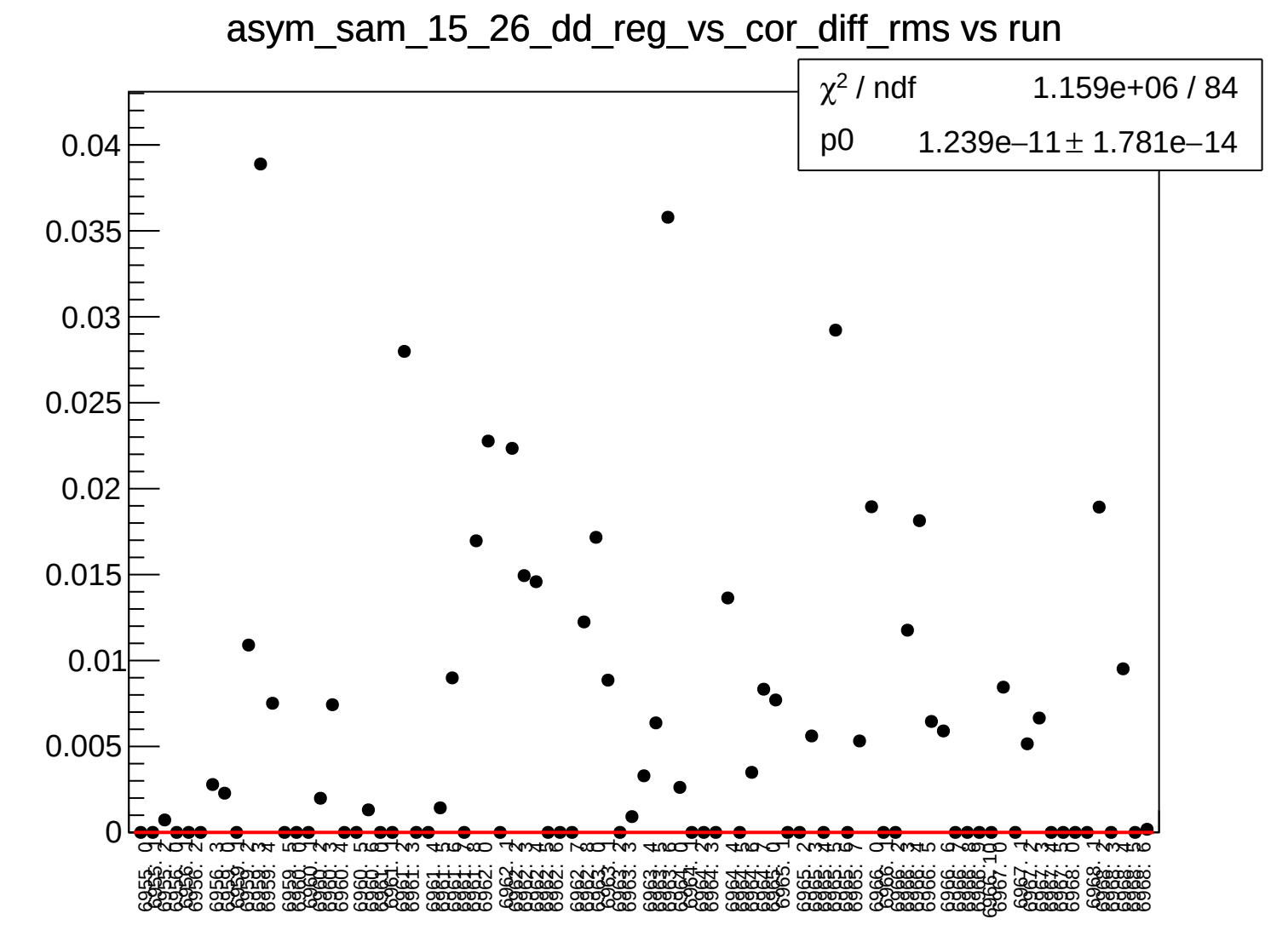

asym_sam_15_26_dd_mean vs run
χ² / ndf 103.4 / 84
p0 154.7 ± 506.6
pull
Entries 85
Mean −408
Std Dev 0

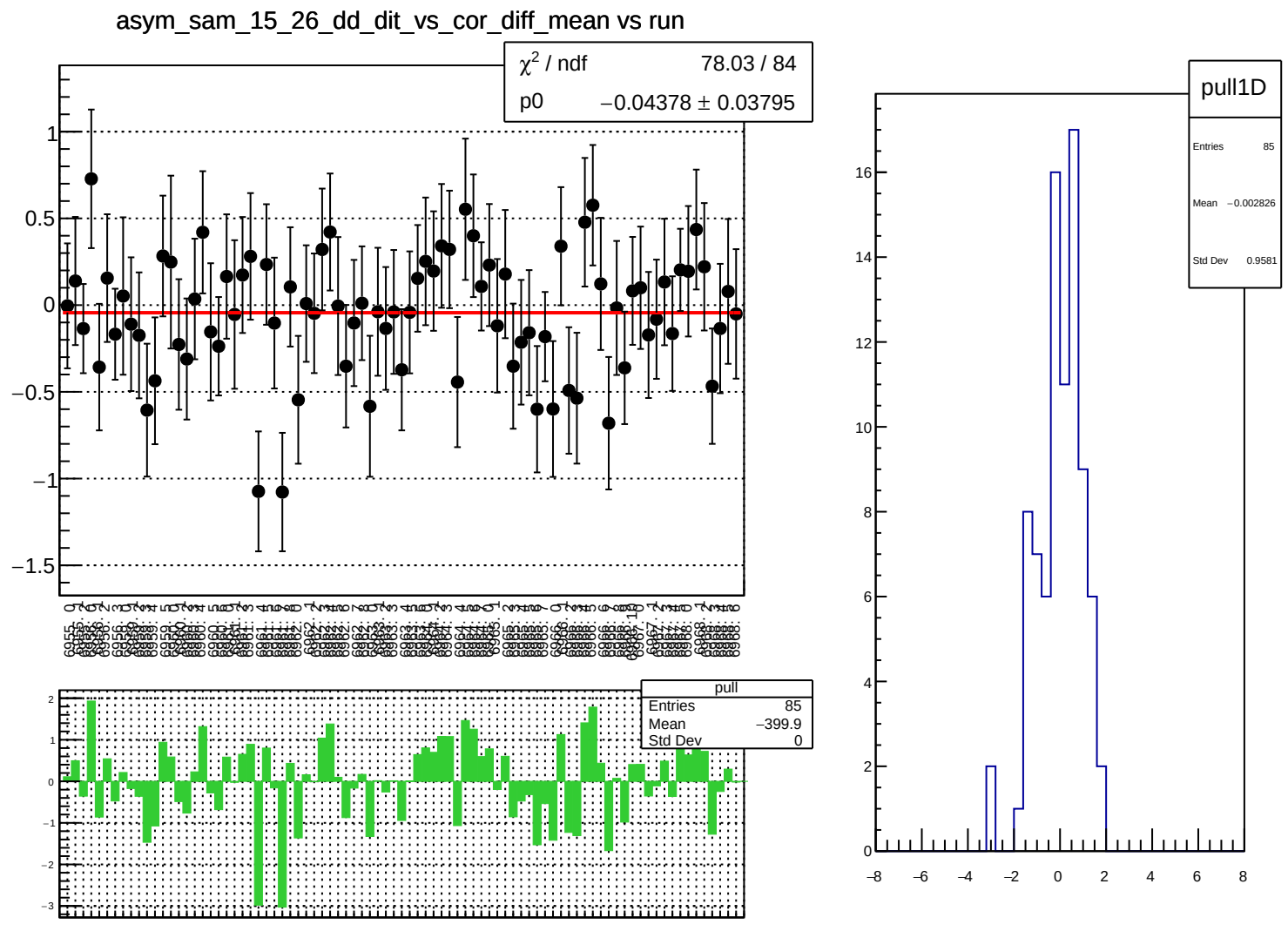

pull1D
Entries 85
Mean 0.005333
Std Dev 1.103

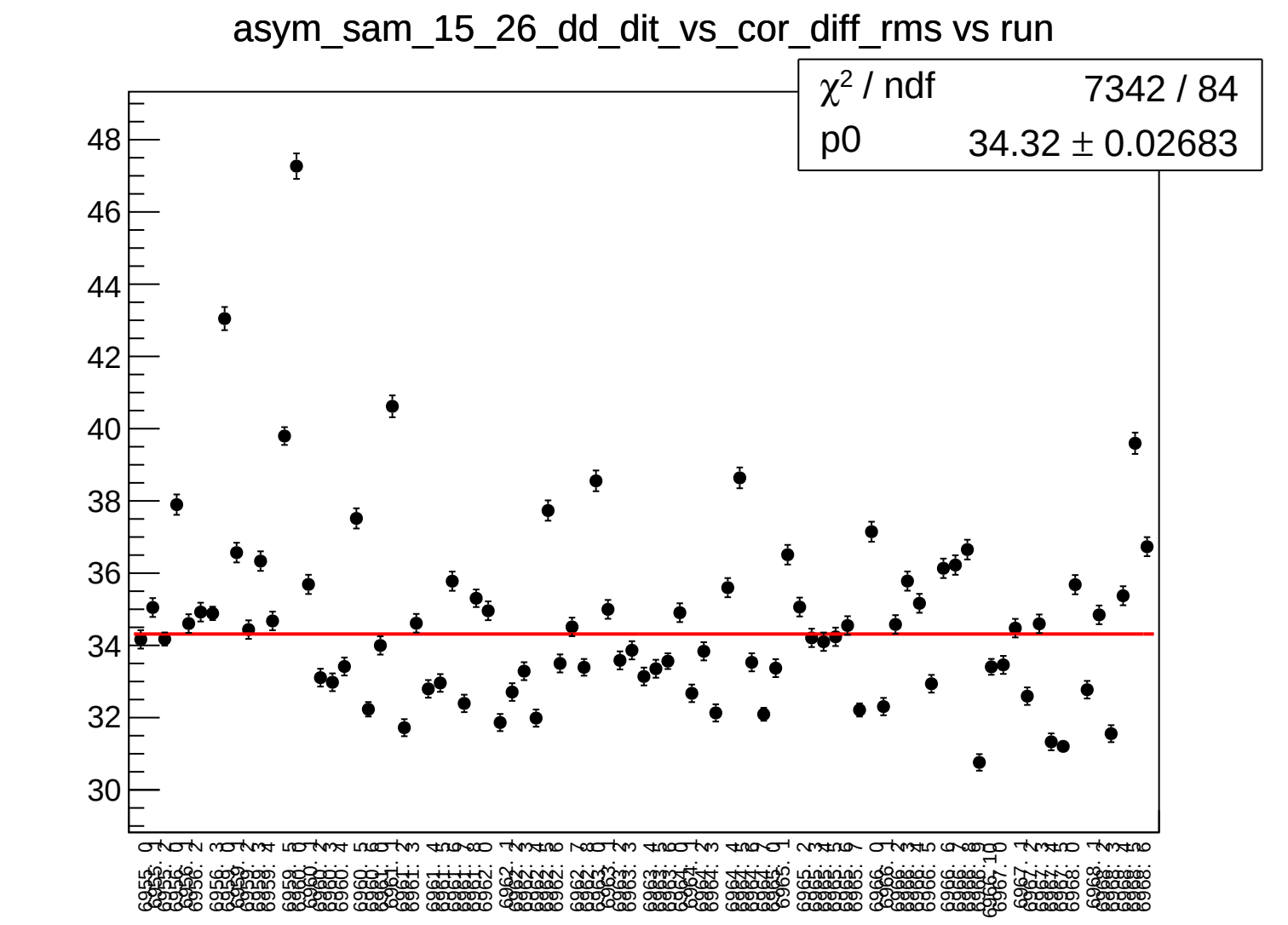

asym_sam_15_26_dd_rms vs run
χ² / ndf 7154 / 84
p0 458.1 ± 0.3582
600
550
500
450
400

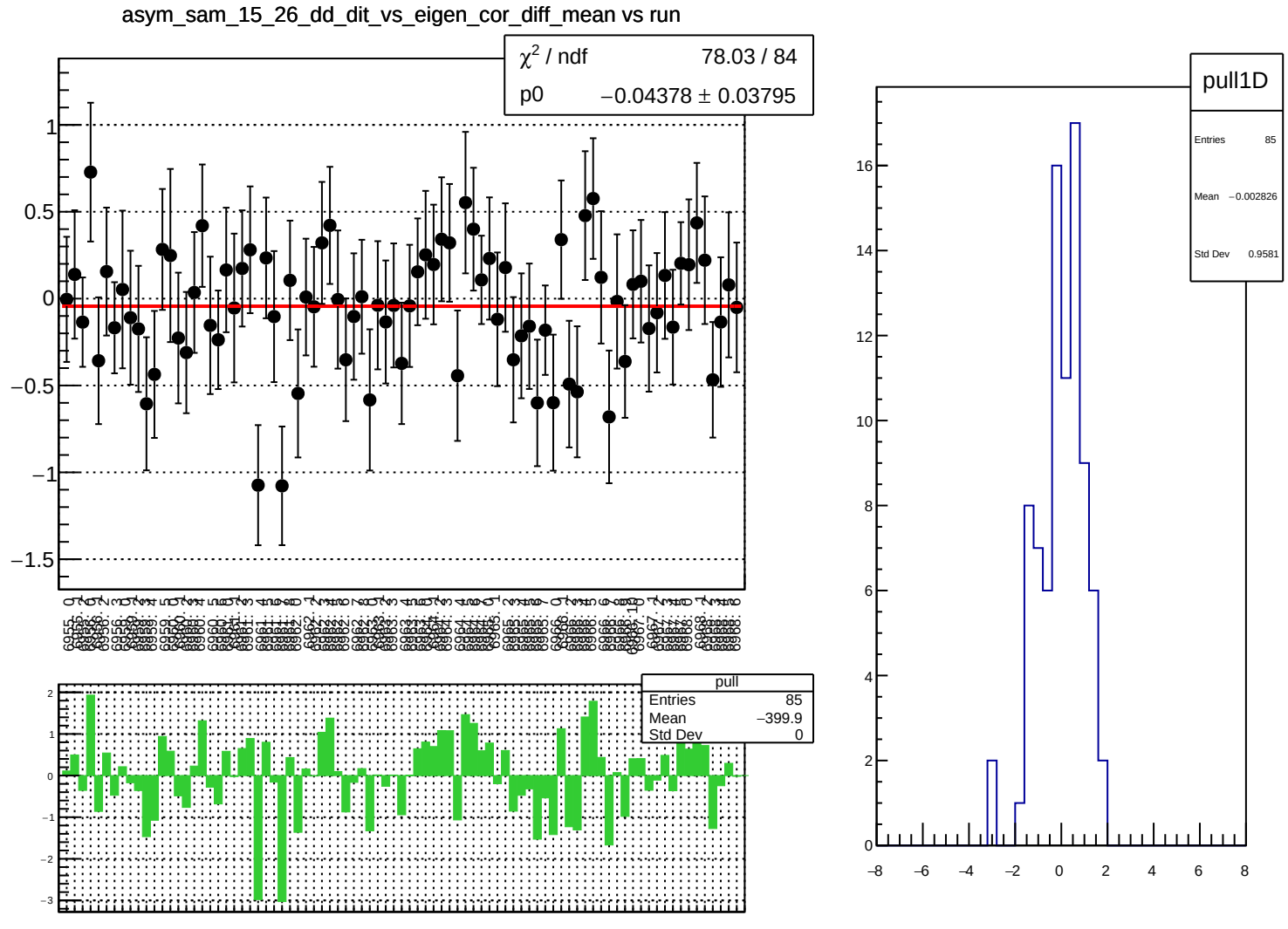

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.1 / 84
p0 4.48e−15 ± 2.519e−14
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 85
Mean 65.98
Std Dev 11.84
2
1
0
−1
−2

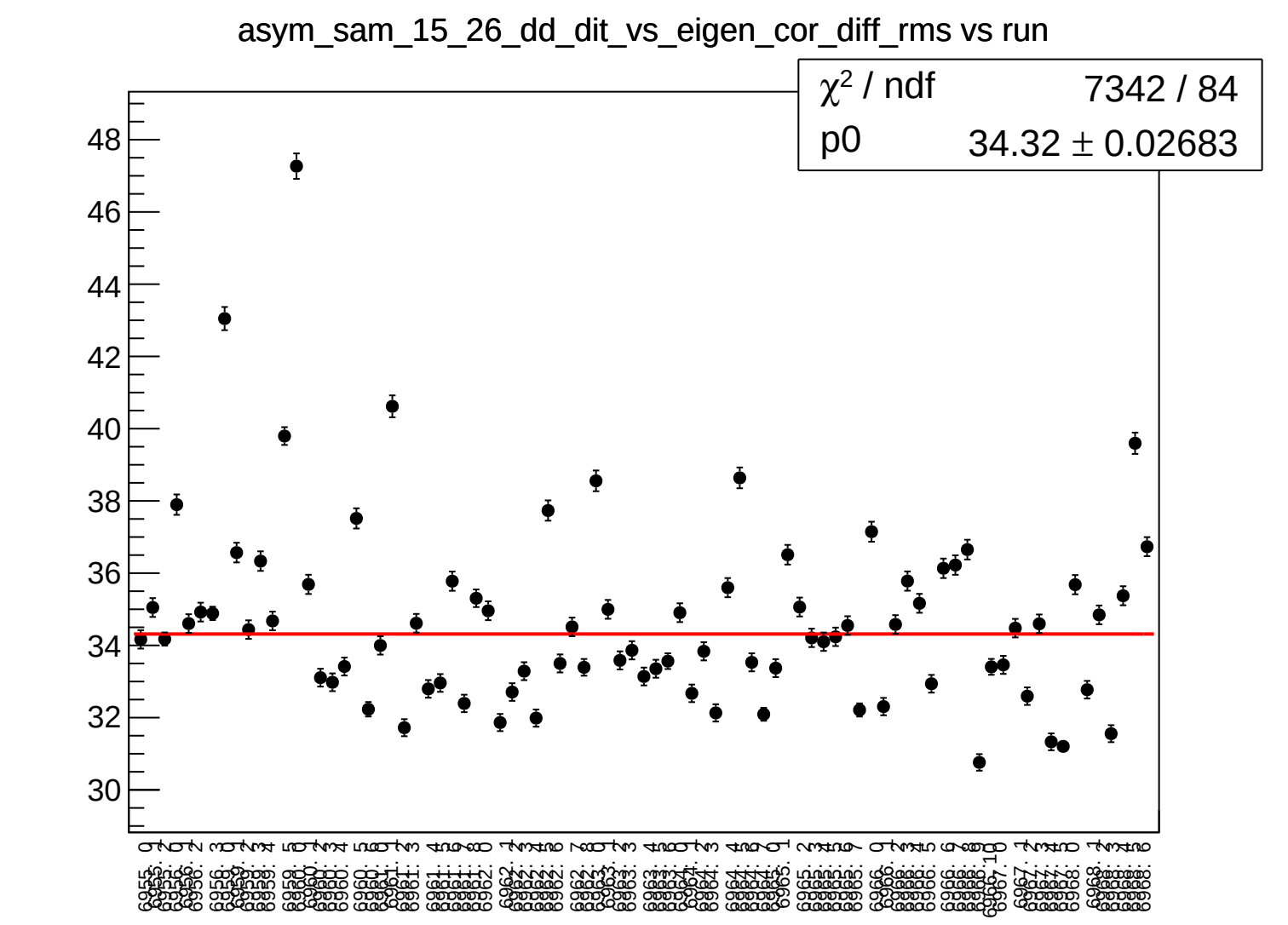

pull1D
Entries 85
Mean −0.145
Std Dev 0.9598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

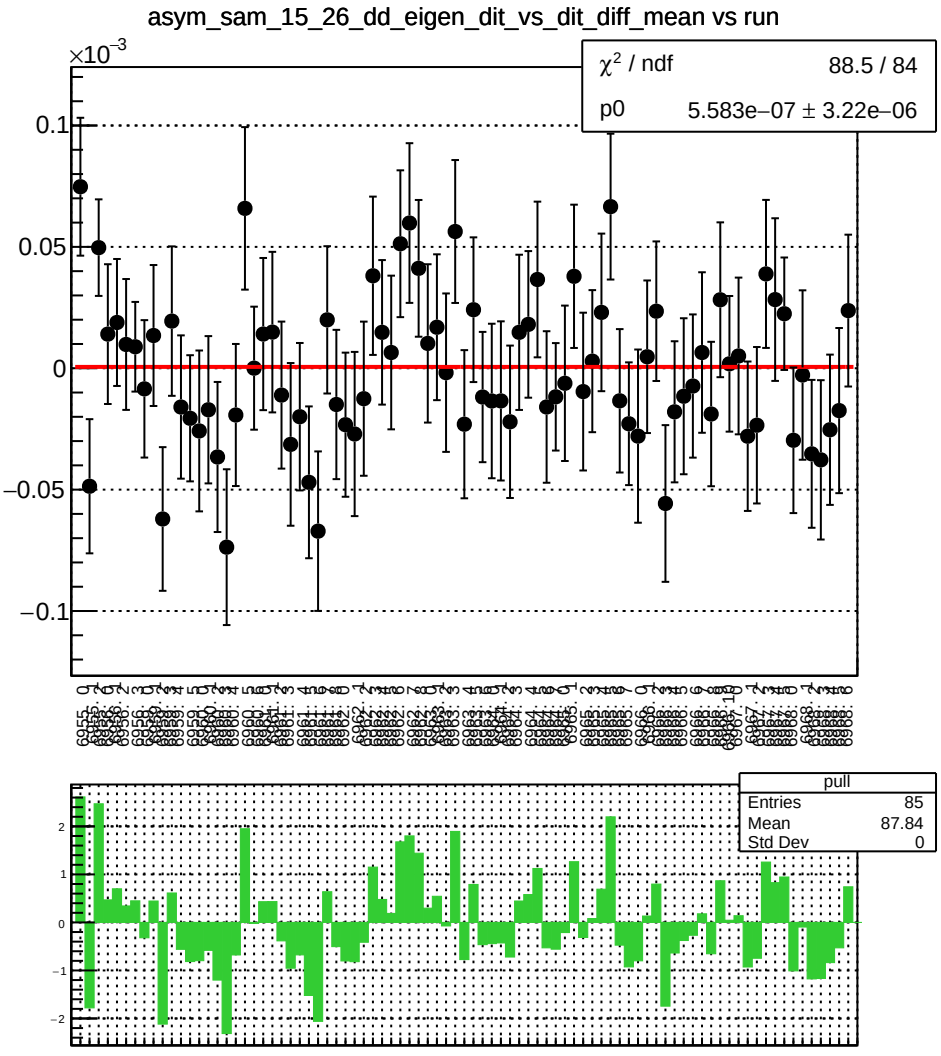

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.159e+06 / 84
p0 1.239e−11 ± 1.781e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

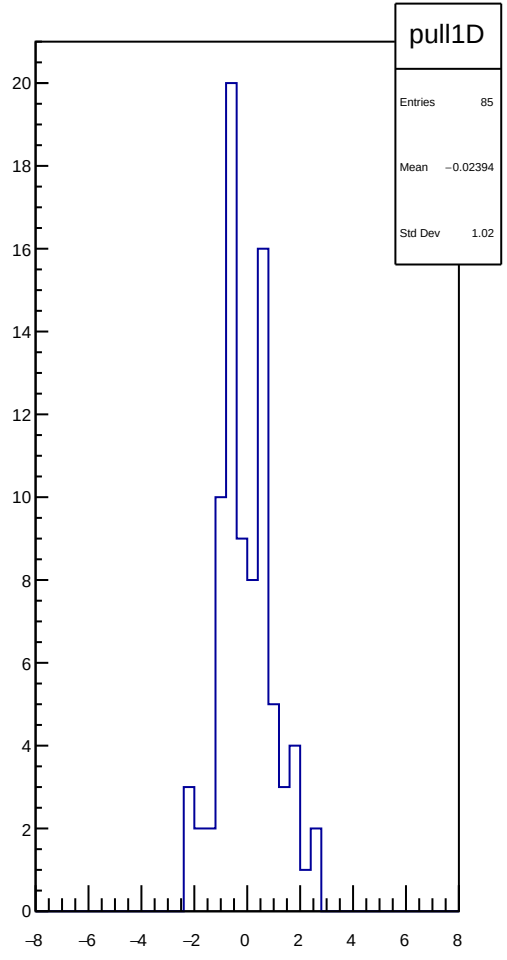

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.03 / 84
p0 −0.04378 ± 0.03795
pull
Entries 85
Mean −399.9
Std Dev 0
pull1D
Entries 85
Mean −0.002826
Std Dev 0.9581

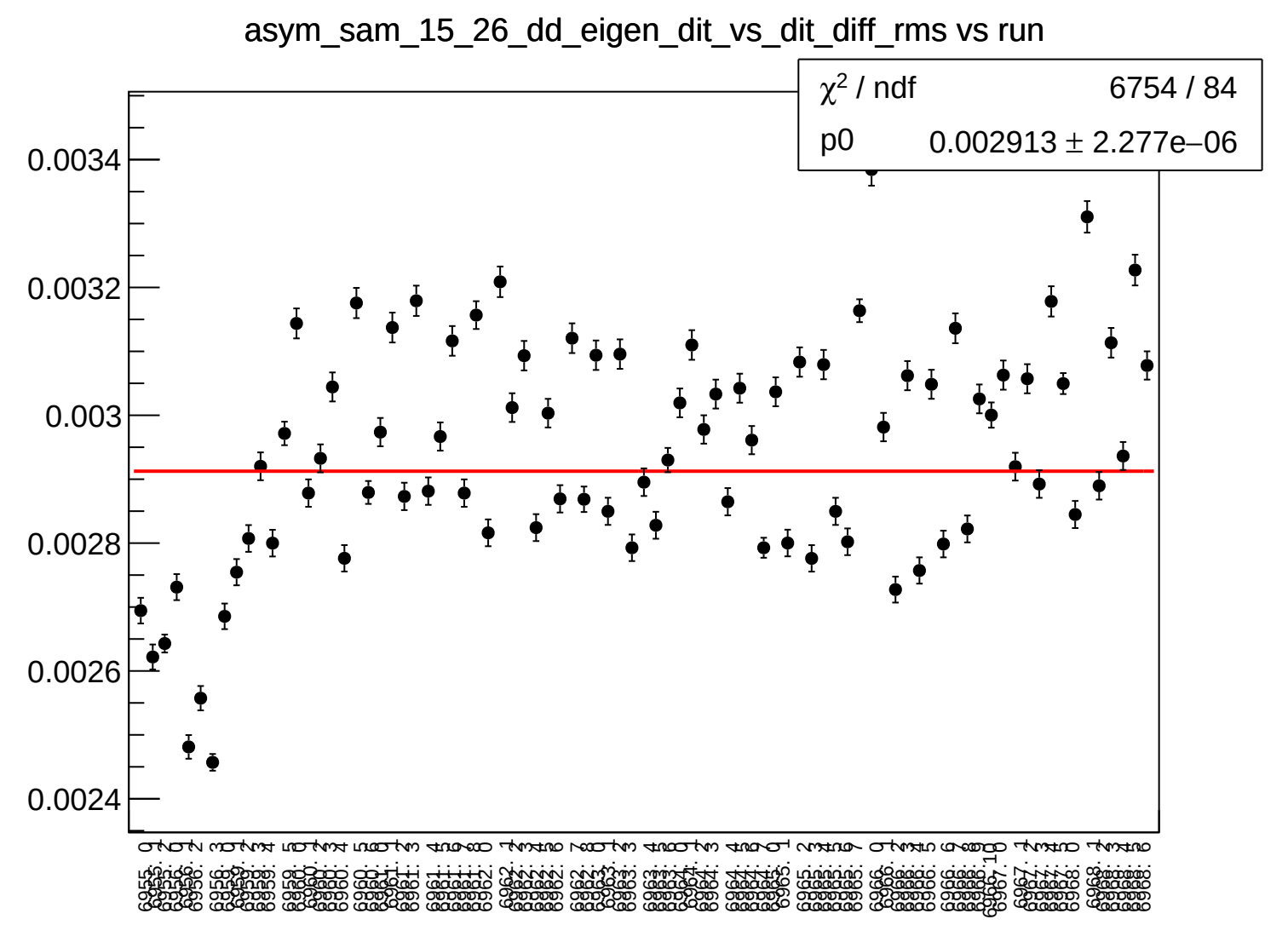

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7342 / 84
p0 34.32 ± 0.02683
48
46
44
42
40
38
36
34
32
30

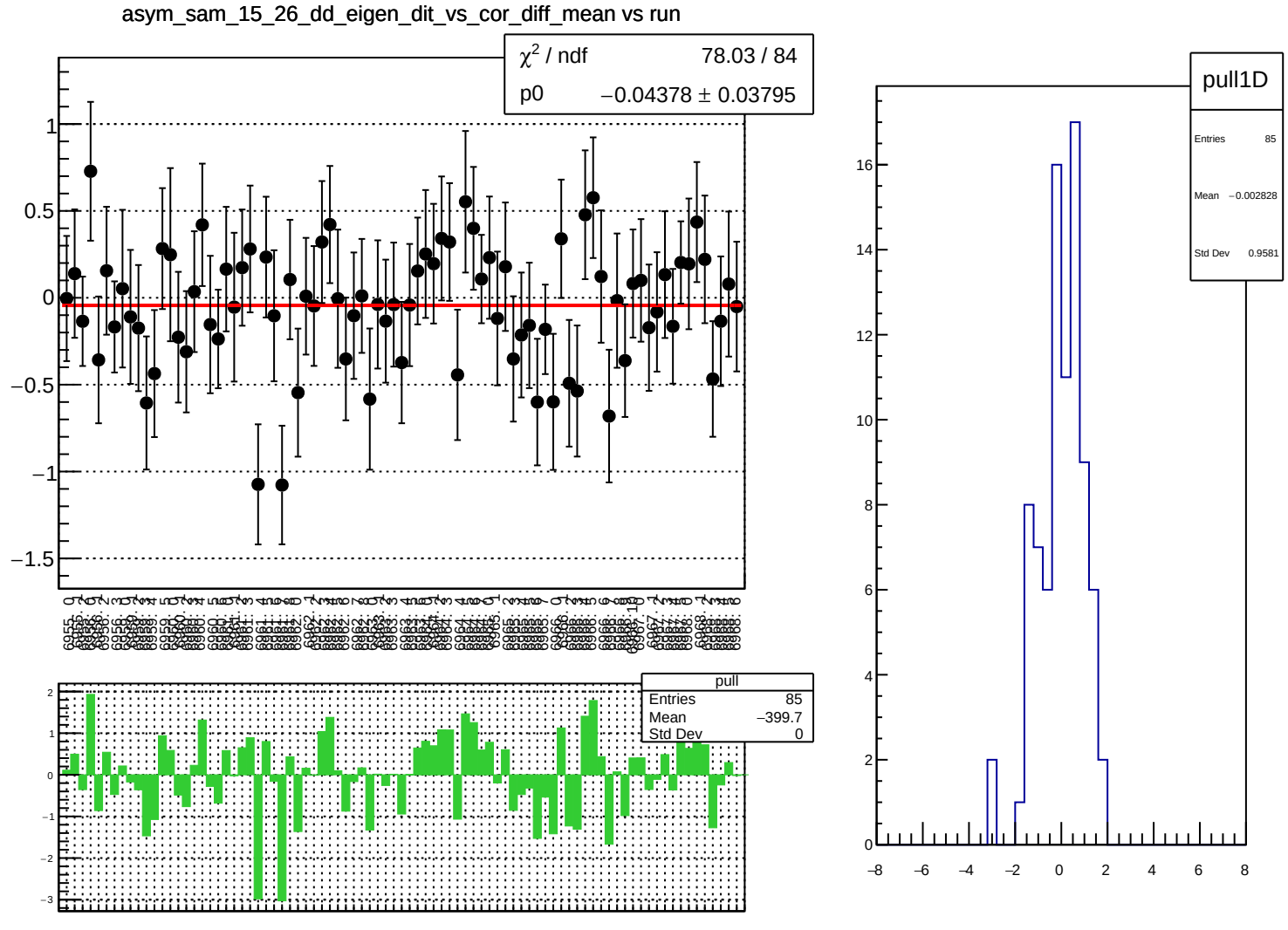

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.03 / 84
p0 −0.04378 ± 0.03795
pull
Entries 85
Mean −399.9
Std Dev 0
pull1D
Entries 85
Mean −0.002826
Std Dev 0.9581

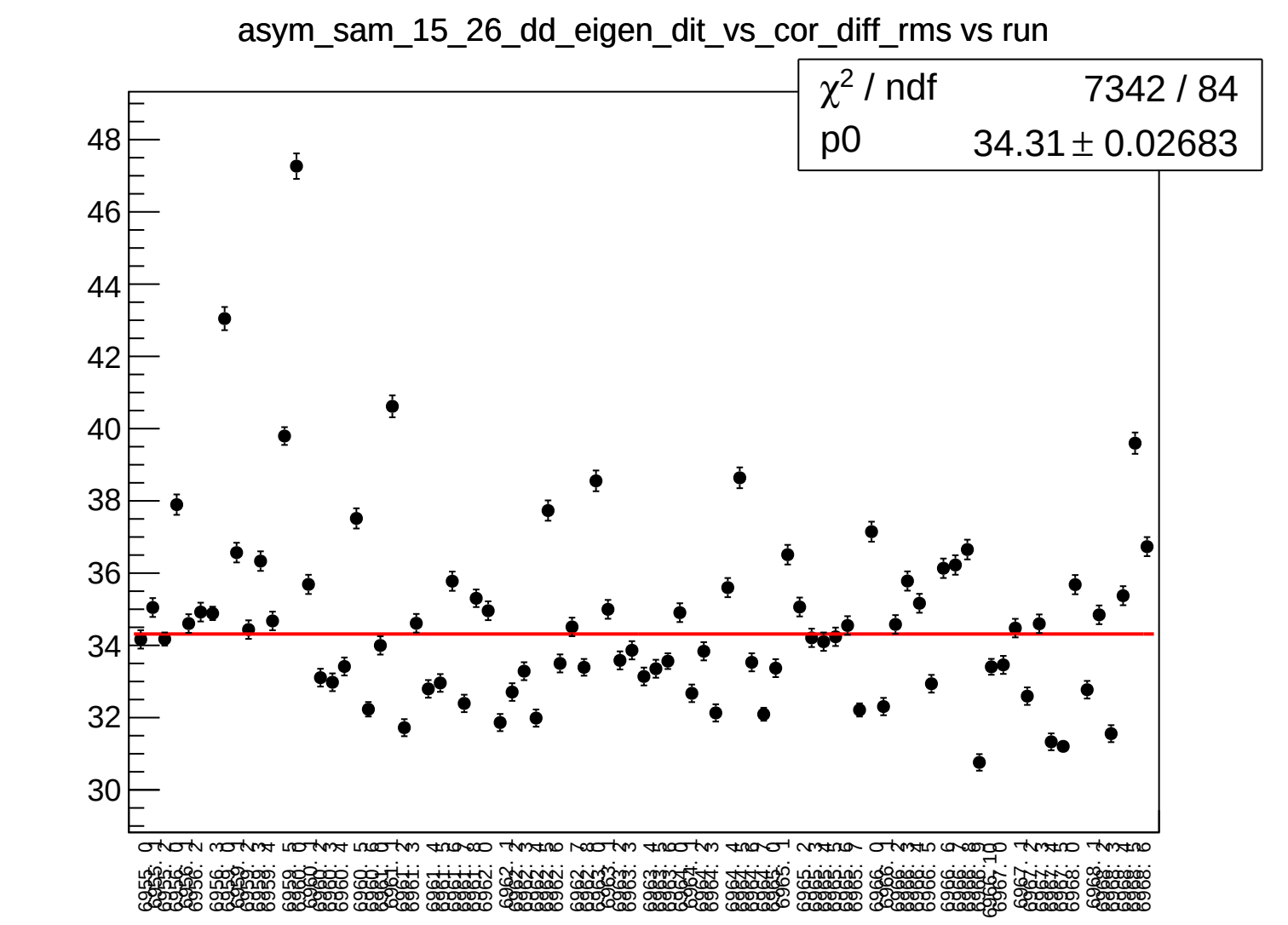

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7342 / 84
p0 34.32 ± 0.02683
48
46
44
42
40
38
36
34
32
30

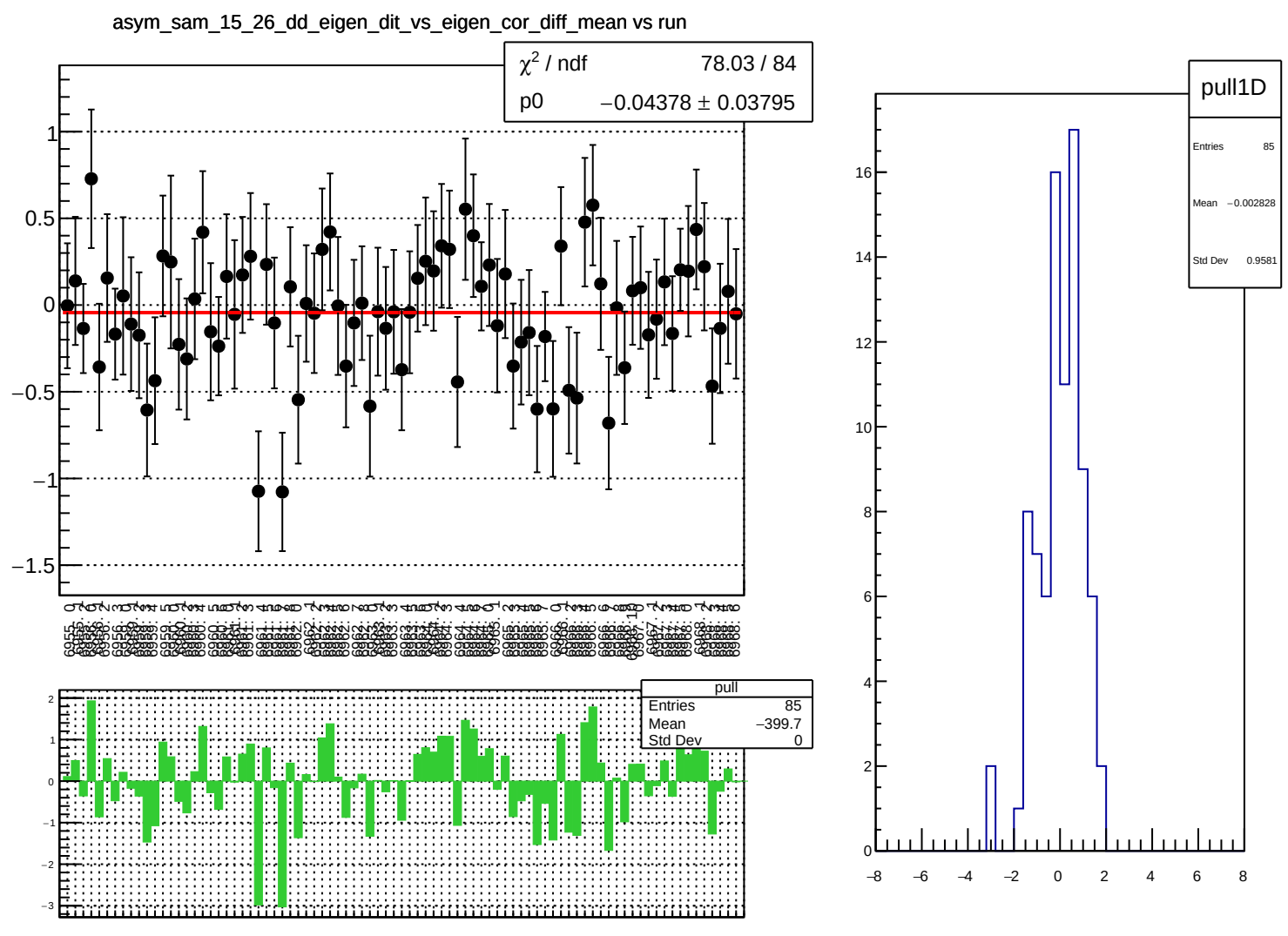

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 88.5 / 84
p0 5.583e−07 ± 3.22e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 87.84
Std Dev 0
2
1
0
−1
−2

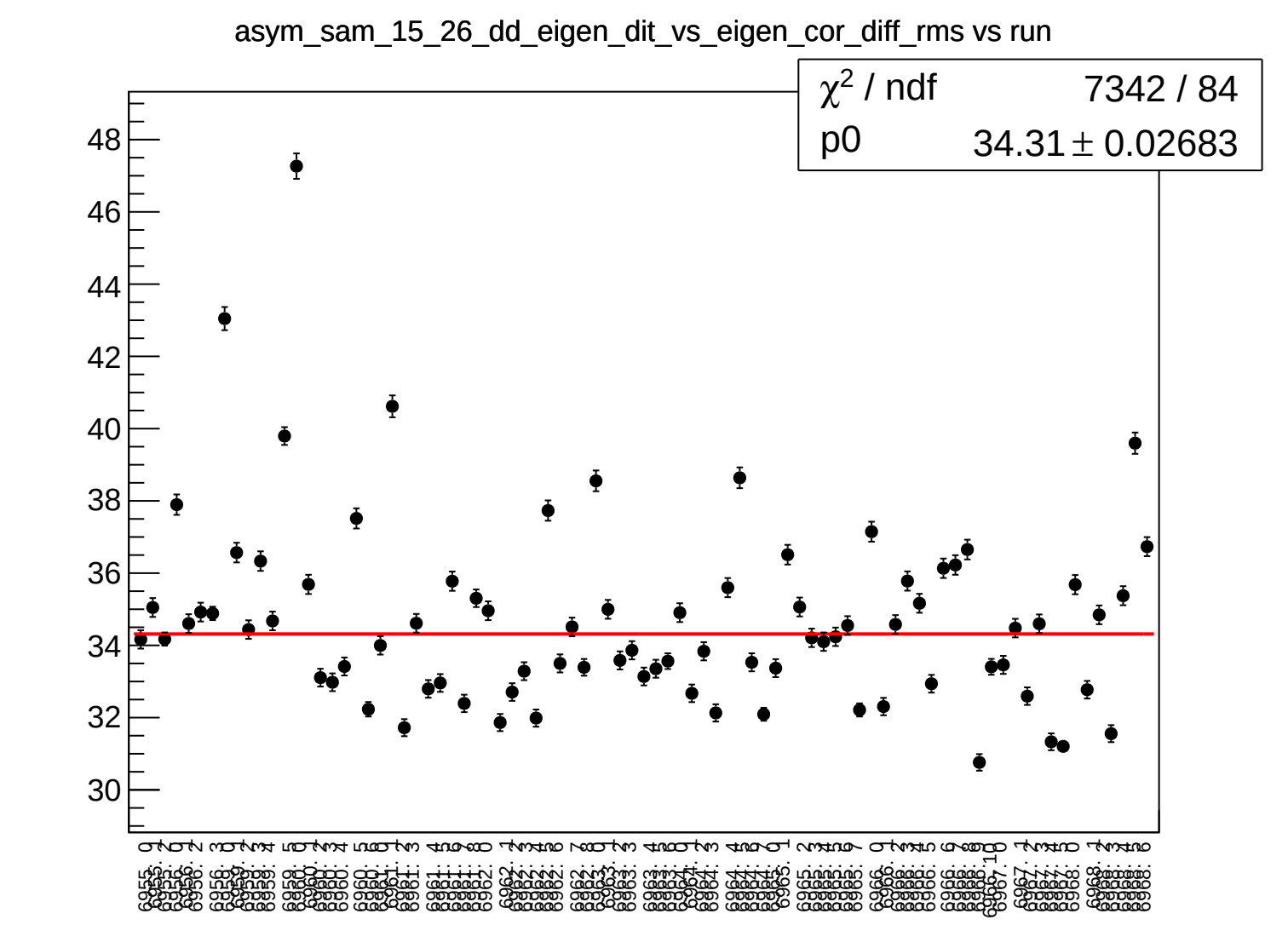

pull1D
Entries 85
Mean −0.02394
Std Dev 1.02
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

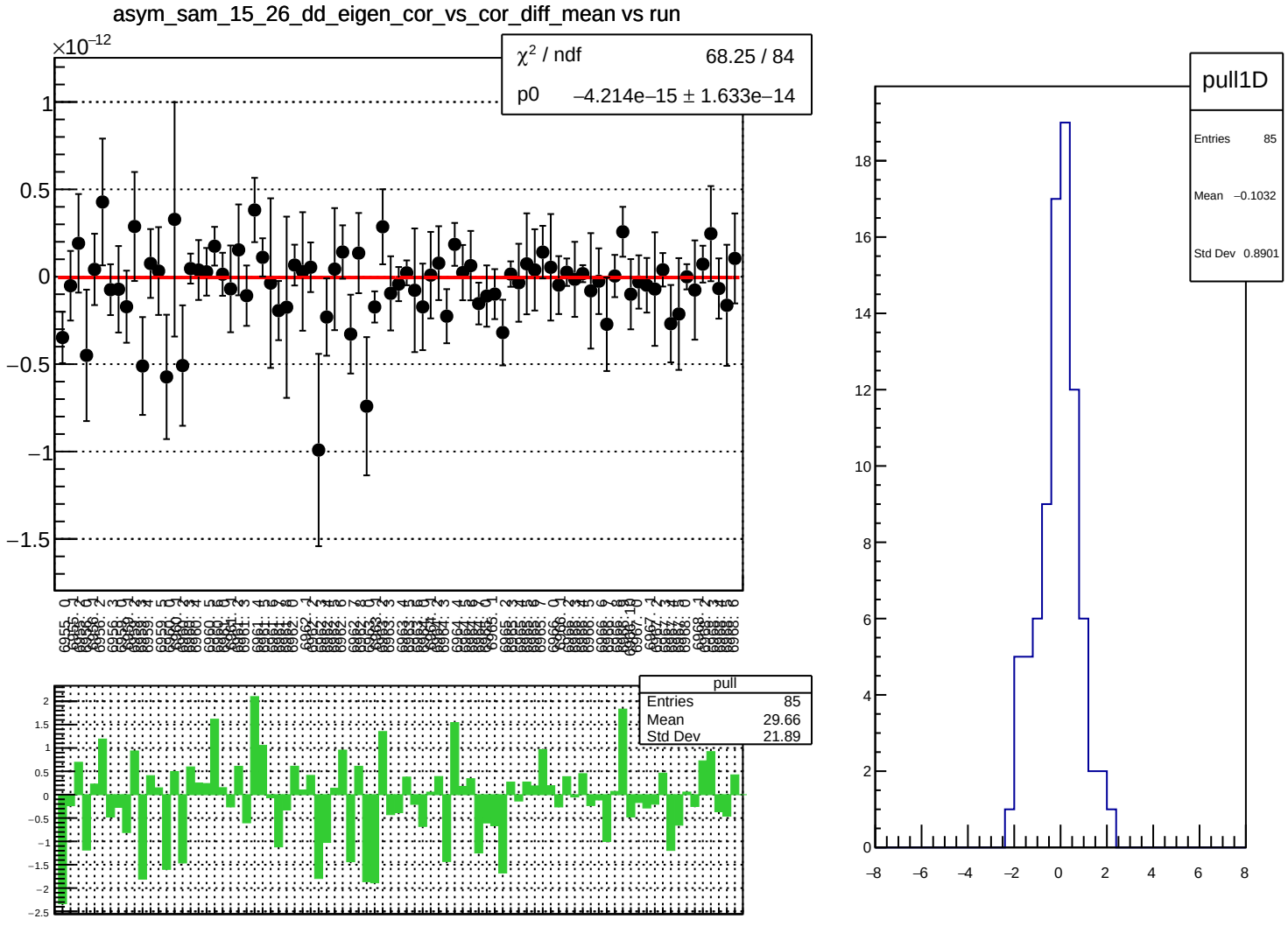

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6754 / 84
p0 0.002913 ± 2.277e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

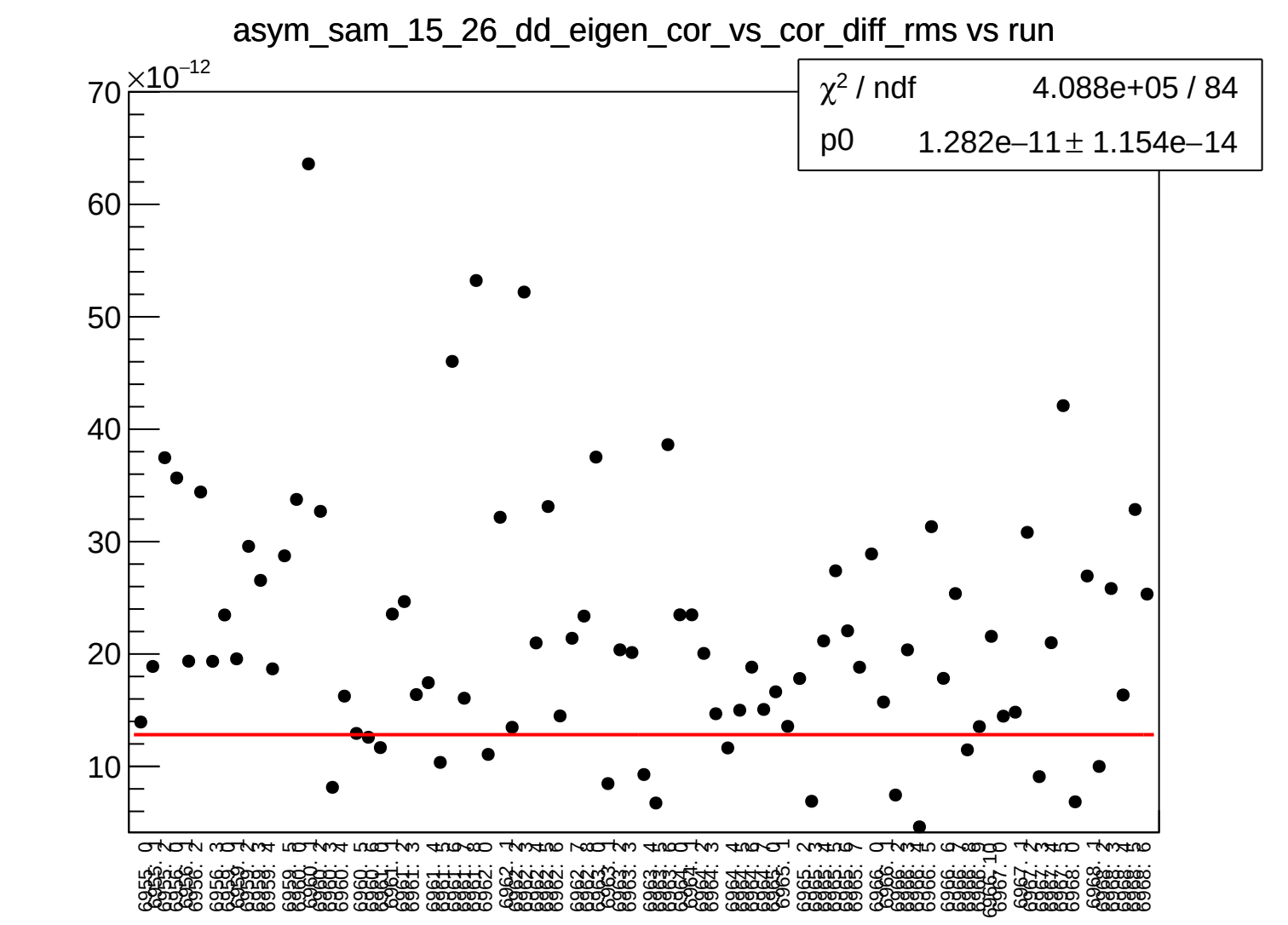

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.03 / 84
p0 −0.04378 ± 0.03795
pull
Entries 85
Mean −399.7
Std Dev 0
pull1D
Entries 85
Mean −0.002828
Std Dev 0.9581

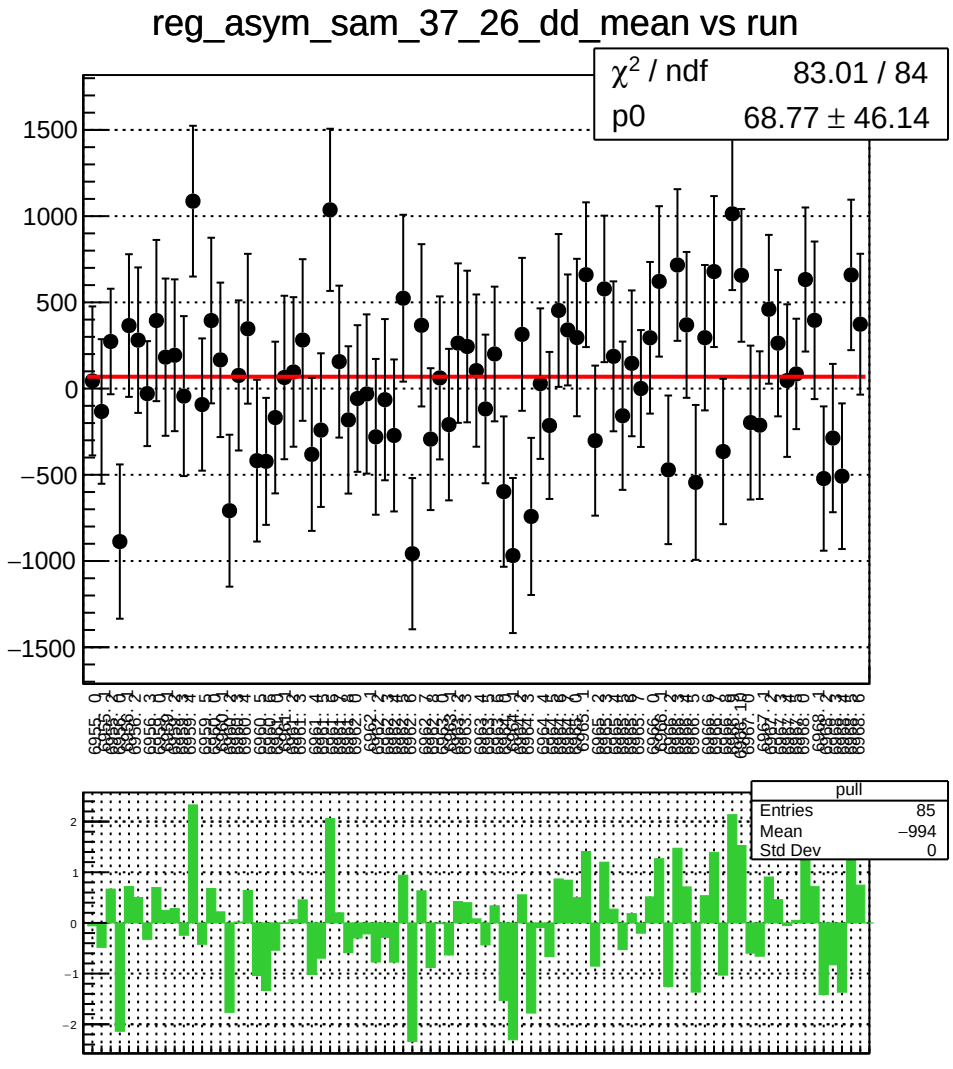

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7342 / 84
p0 34.31 ± 0.02683
48
46
44
42
40
38
36
34
32
30

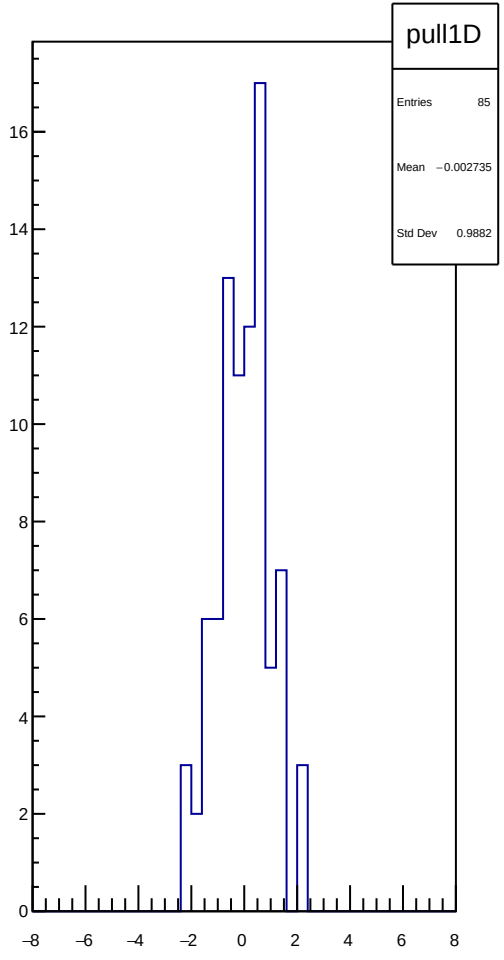

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.03 / 84
p0 −0.04378 ± 0.03795
pull
Entries 85
Mean −399.7
Std Dev 0
pull1D
Entries 85
Mean −0.002828
Std Dev 0.9581

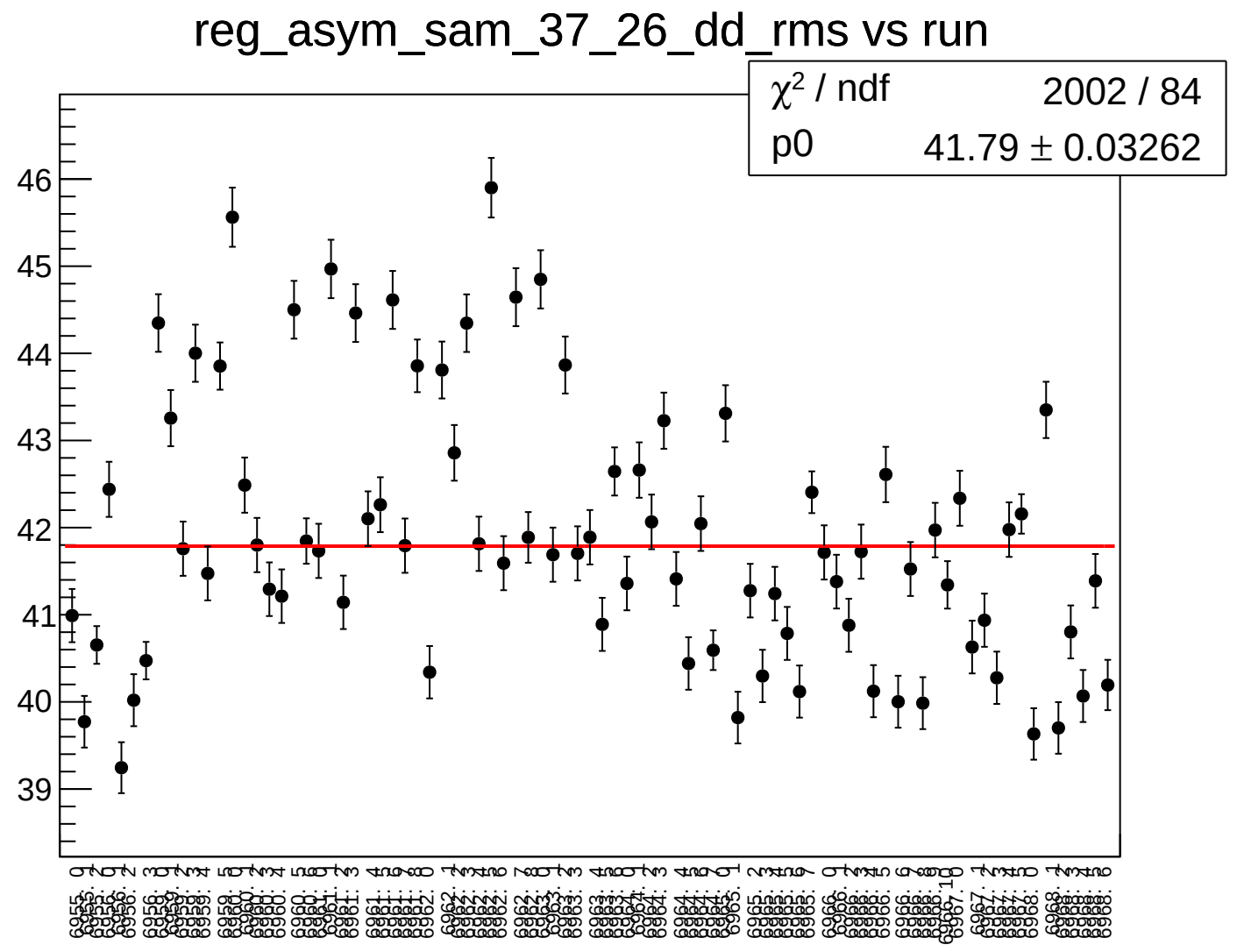

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7342 / 84
p0 34.31 ± 0.02683
48
46
44
42
40
38
36
34
32
30

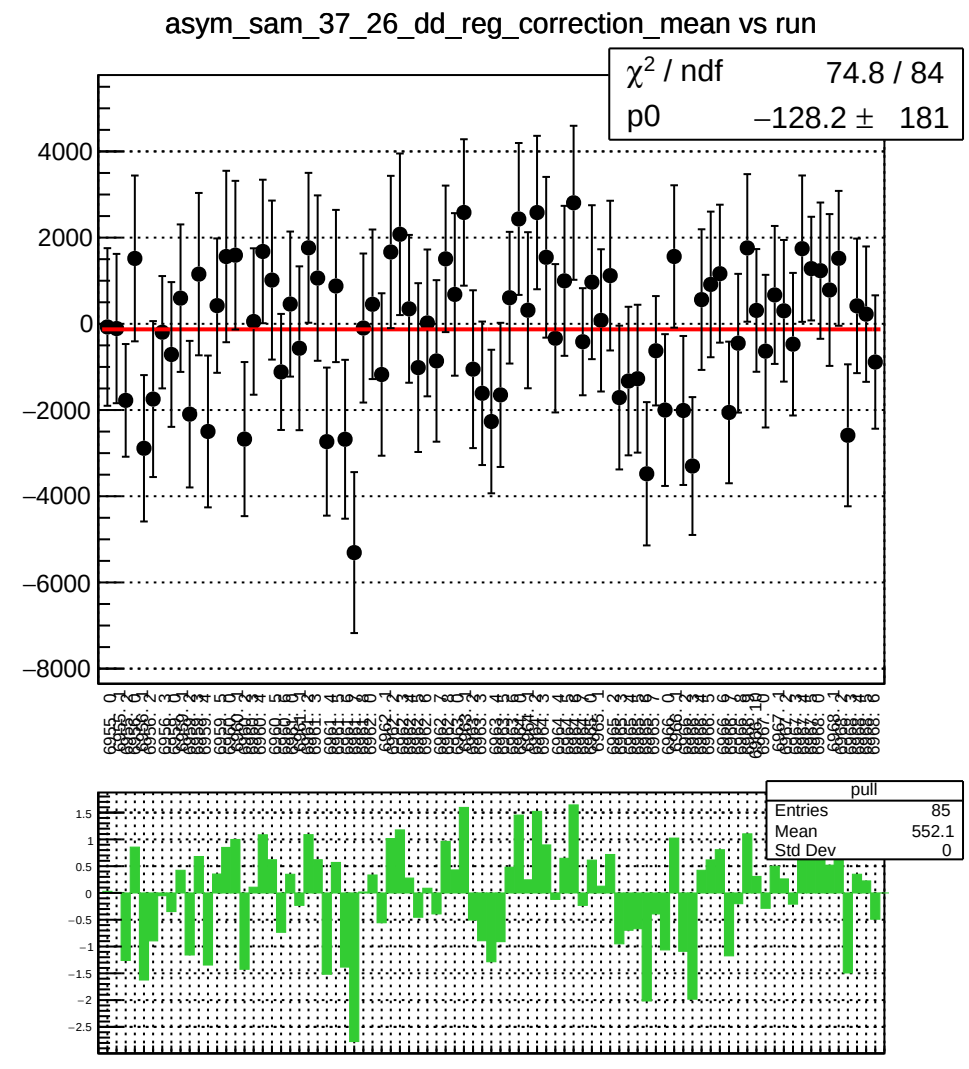

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.25 / 84
p0 −4.214e−15 ± 1.633e−14
pull
Entries 85
Mean 29.66
Std Dev 21.89
pull1D
Entries 85
Mean −0.1032
Std Dev 0.8901

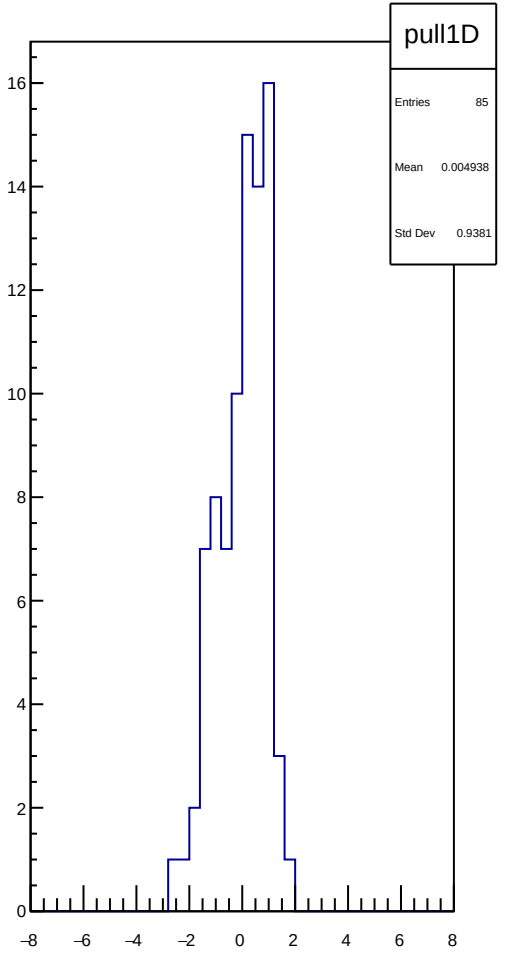

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 4.088e+05 / 84
p0 1.282e−11 ± 1.154e−14

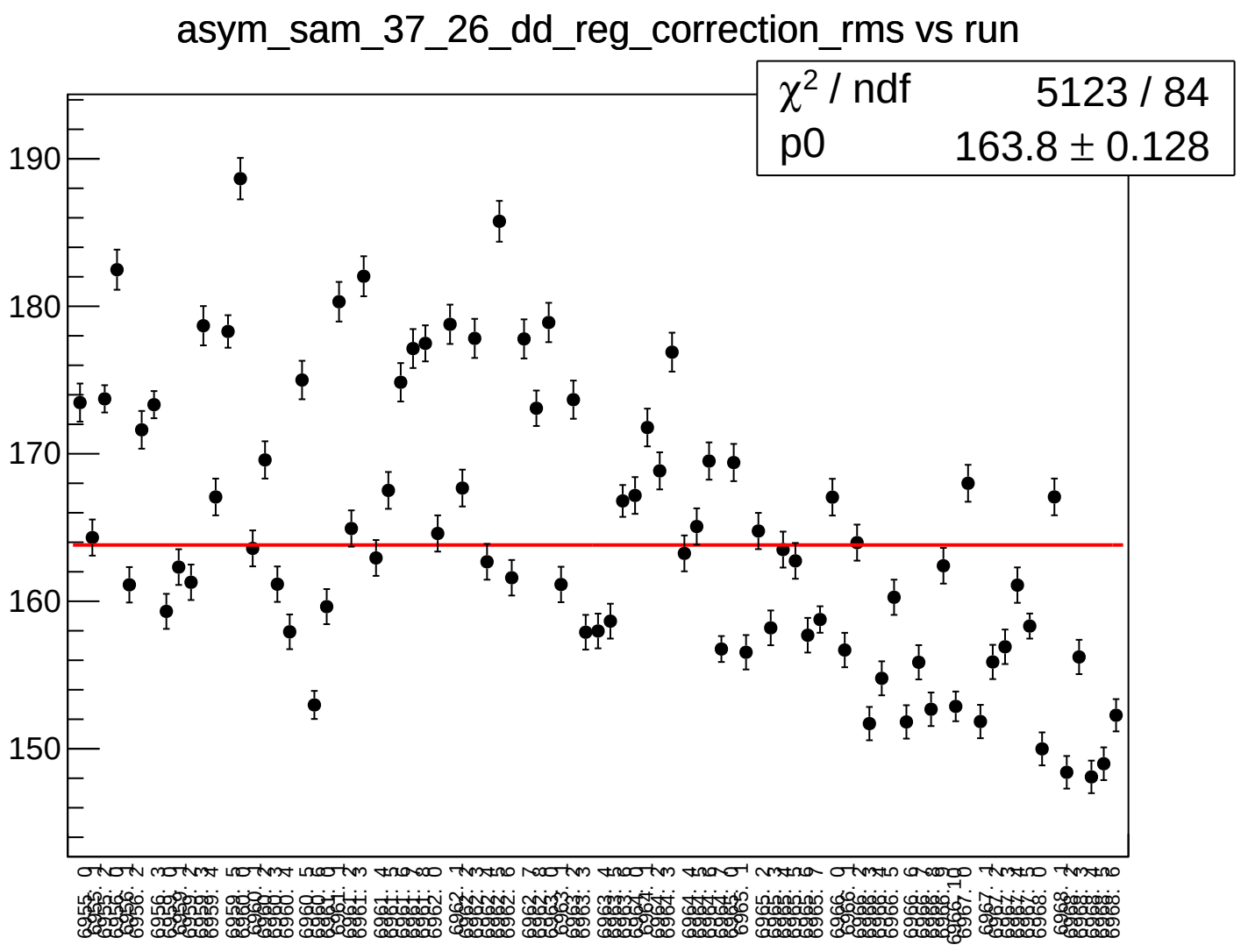

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 83.01 / 84
p0 68.77 ± 46.14
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean −994
Std Dev 0
2
1
0
−1
−2

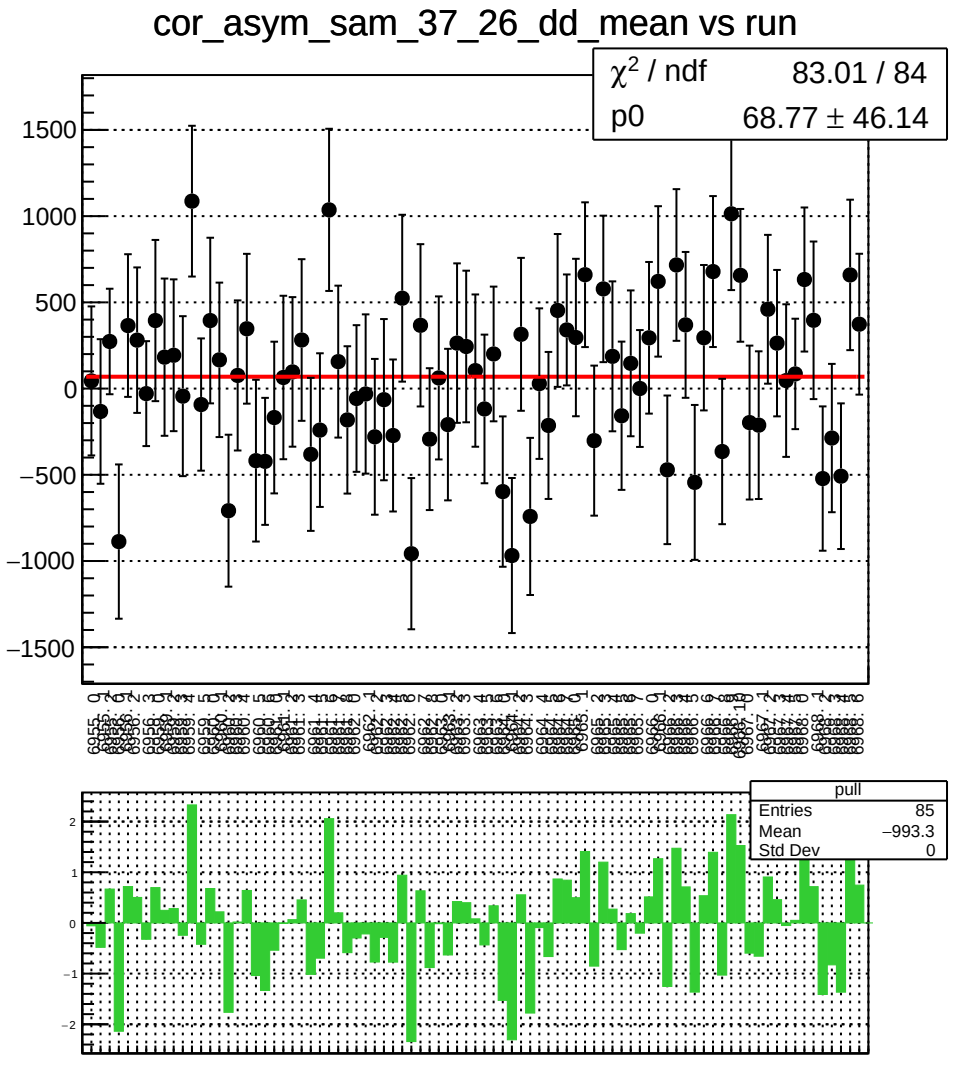

pull1D
Entries 85
Mean −0.002735
Std Dev 0.9882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

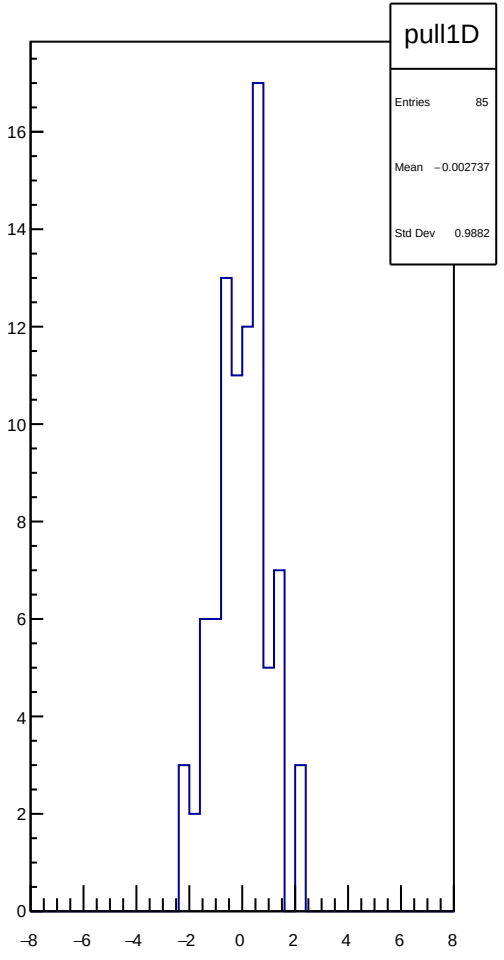

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2002 / 84
p0 41.79 ± 0.03262
46
45
44
43
42
41
40
39

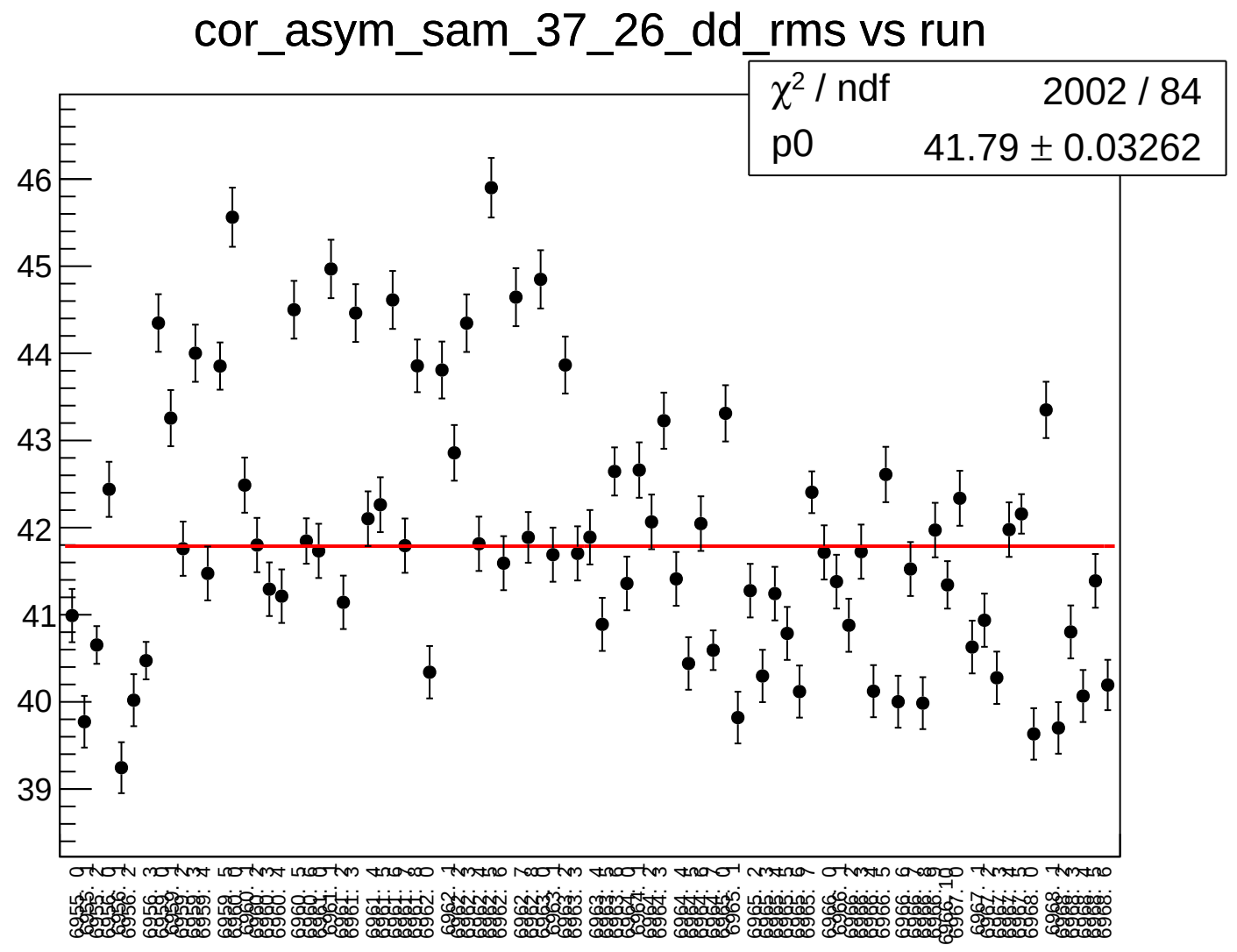

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 74.8 / 84
p0 −128.2 ± 181
pull
Entries 85
Mean 552.1
Std Dev 0

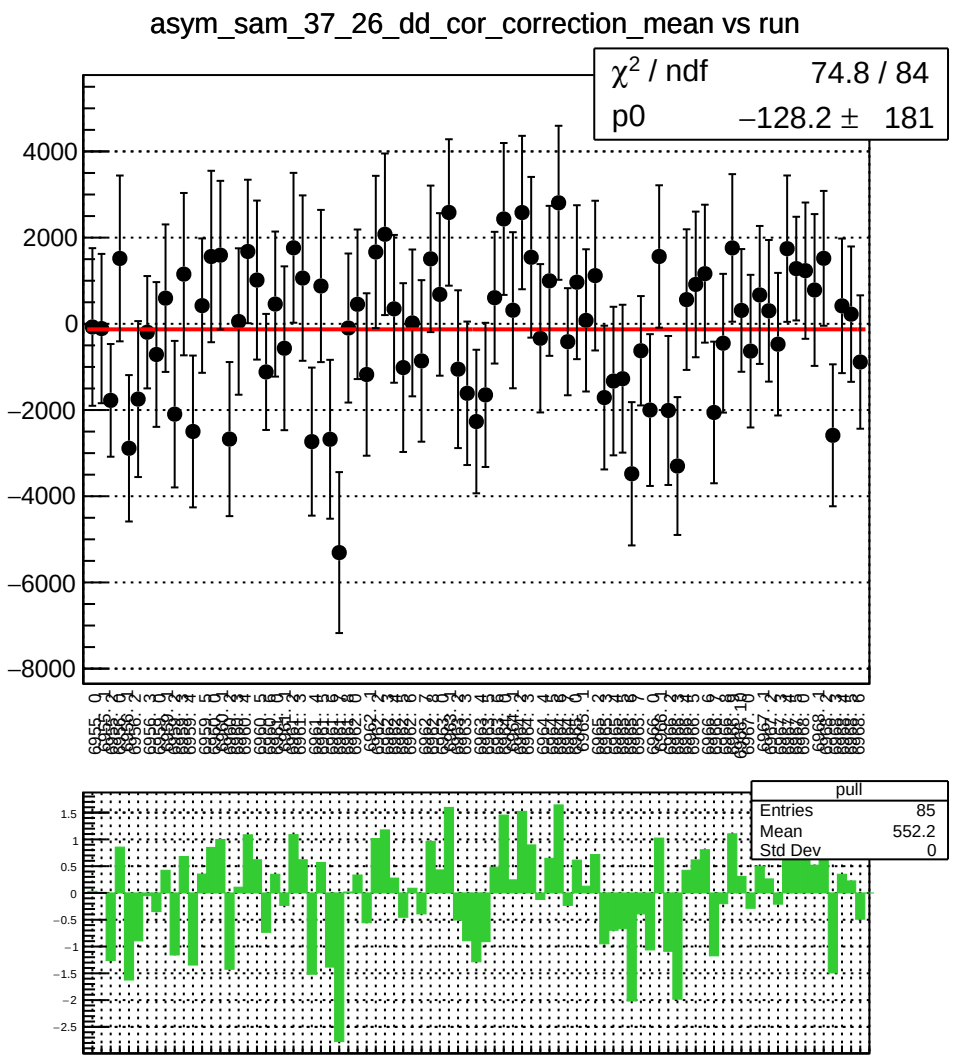

pull1D
Entries 85
Mean 0.004938
Std Dev 0.9381

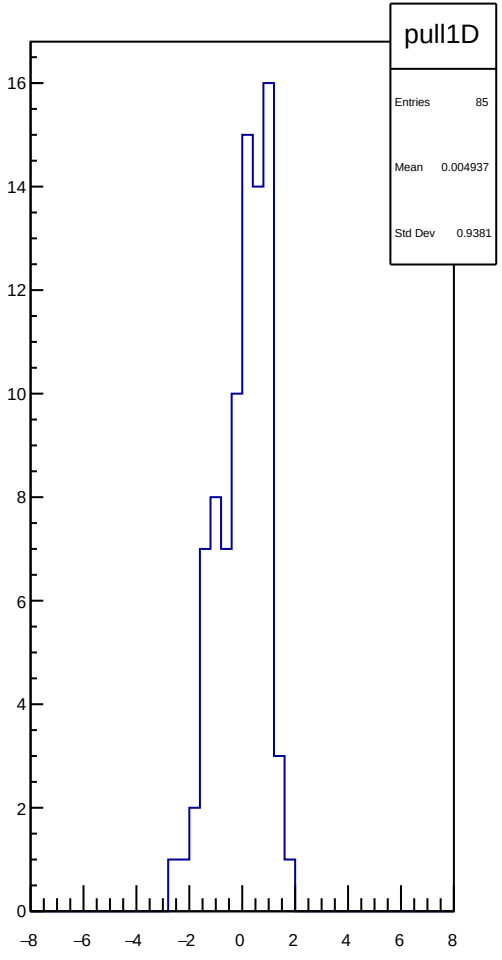

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 5123 / 84
p0 163.8 ± 0.128
190
180
170
160
150

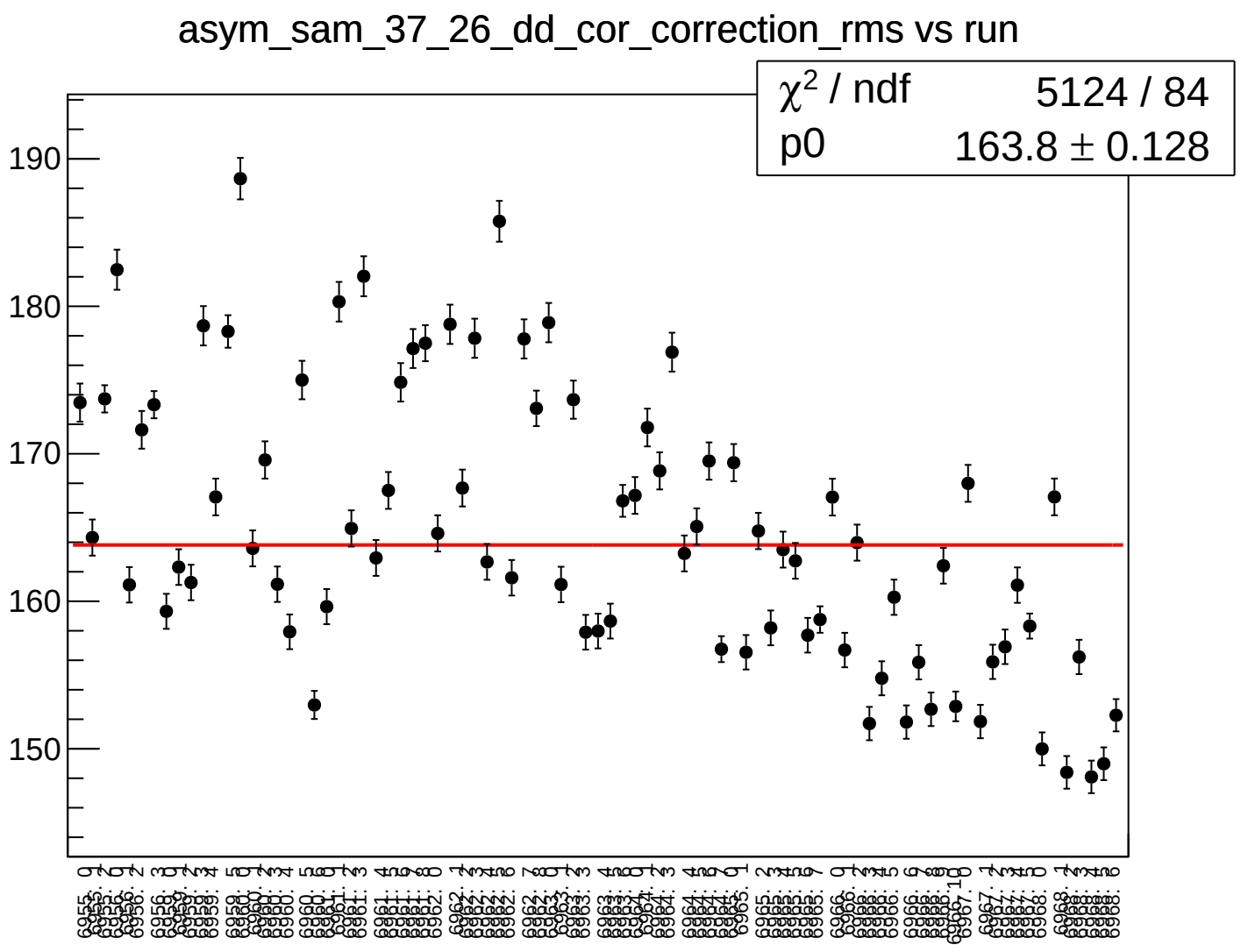

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 83.01 / 84
p0 68.77 ± 46.14
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean −993.3
Std Dev 0
2
1
0
−1
−2

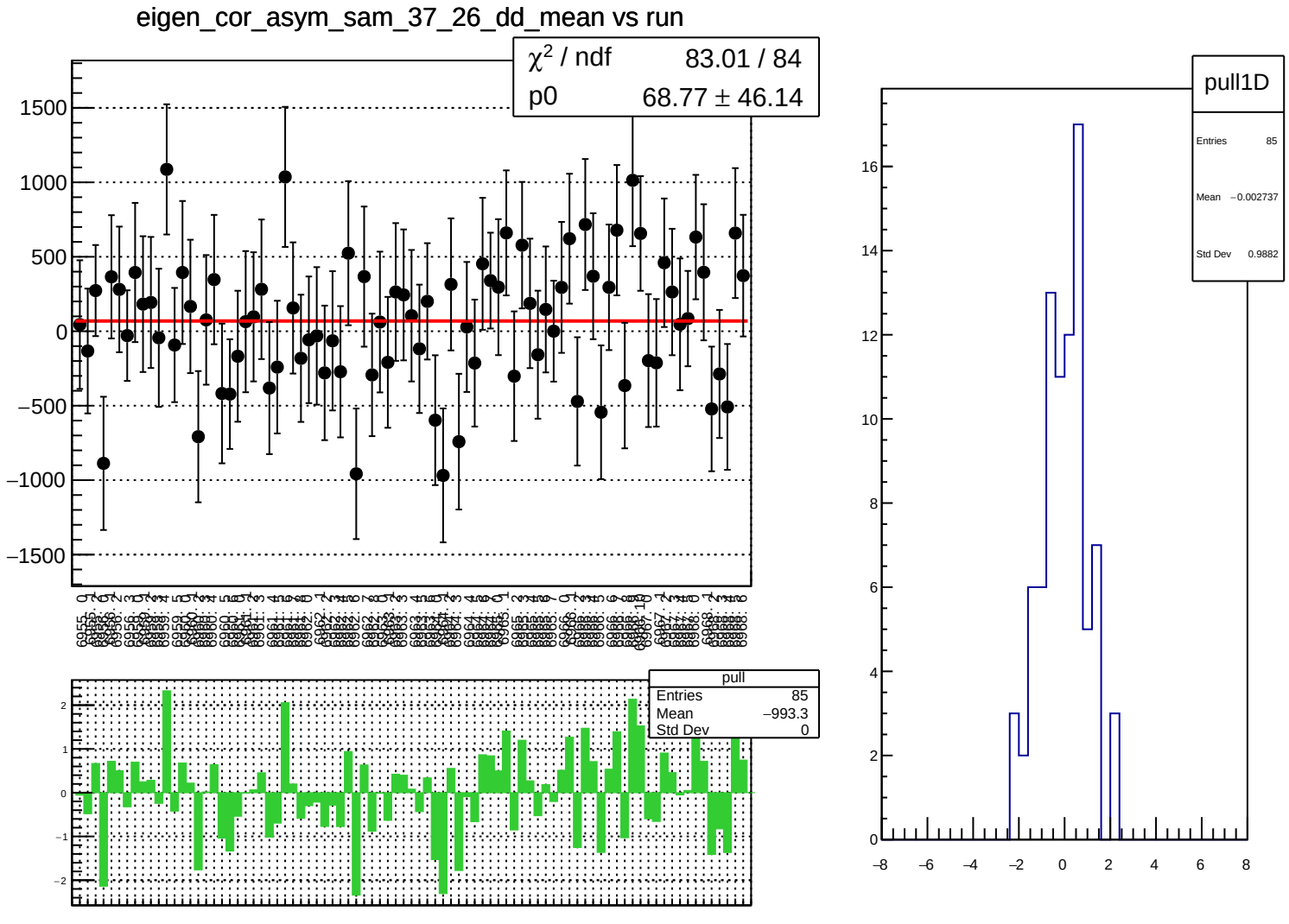

pull1D
Entries 85
Mean −0.002737
Std Dev 0.9882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

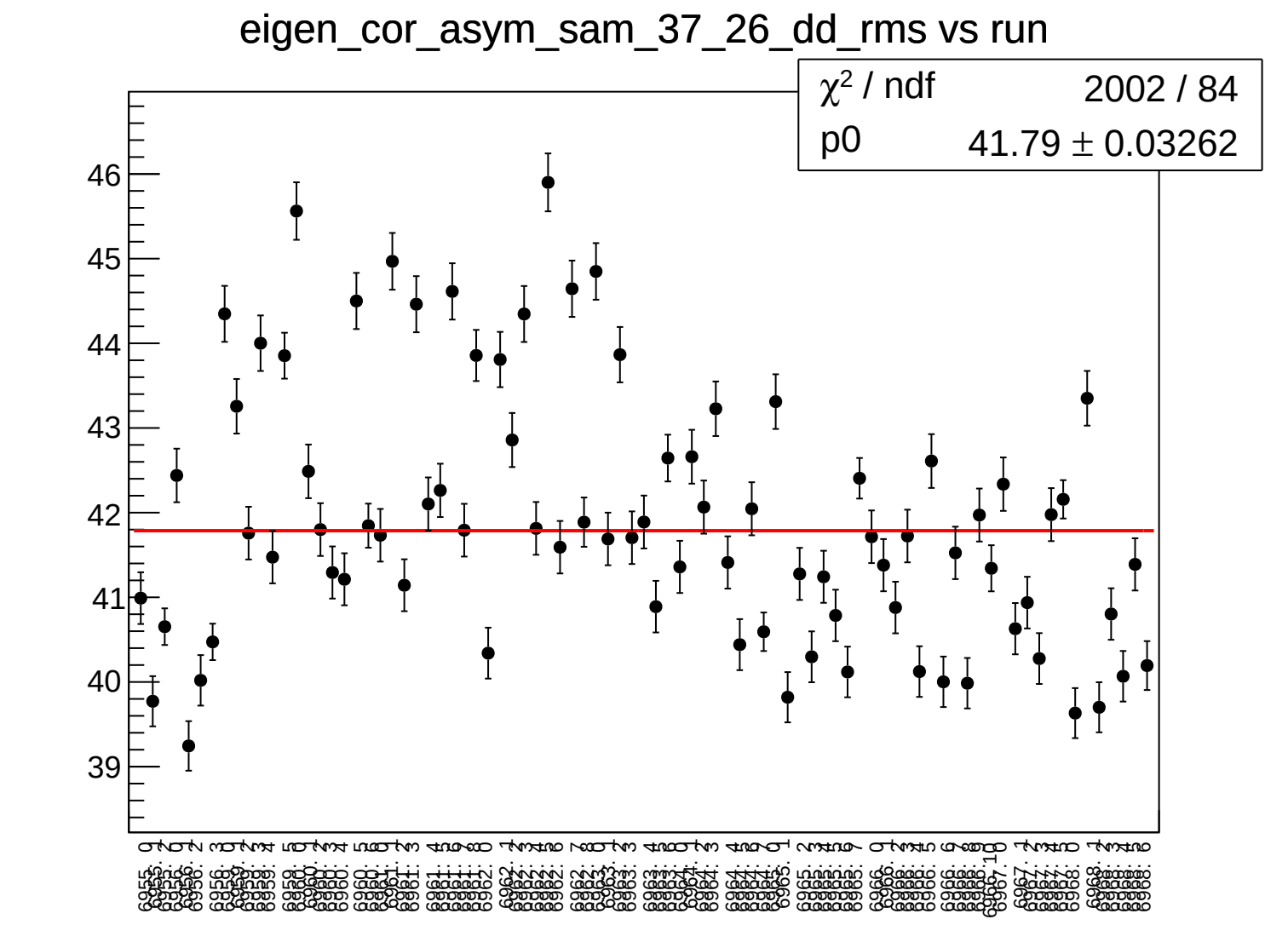

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2002 / 84
p0 41.79 ± 0.03262
46
45
44
43
42
41
40
39

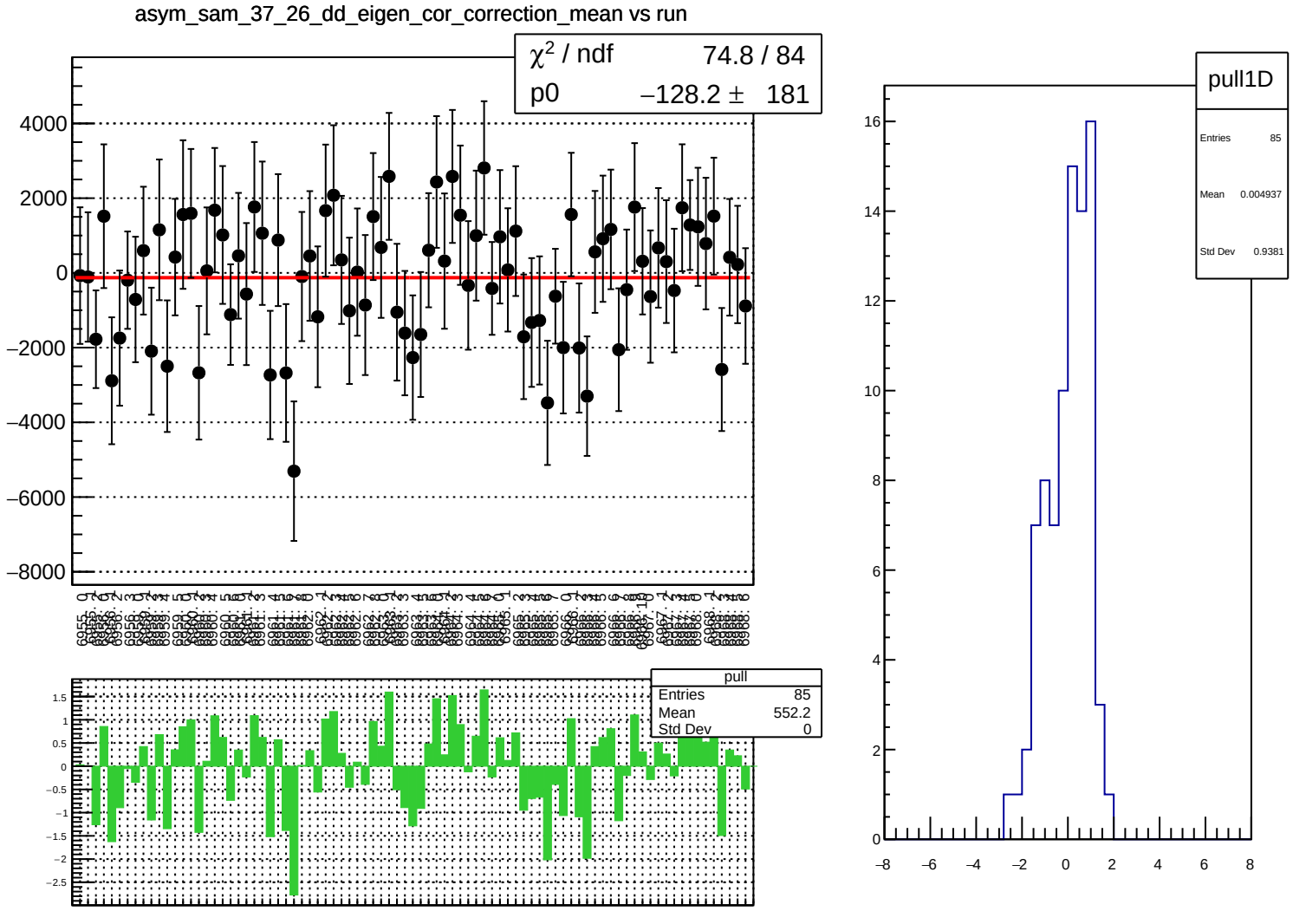

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 74.8 / 84
p0 −128.2 ± 181
pull
Entries 85
Mean 552.2
Std Dev 0

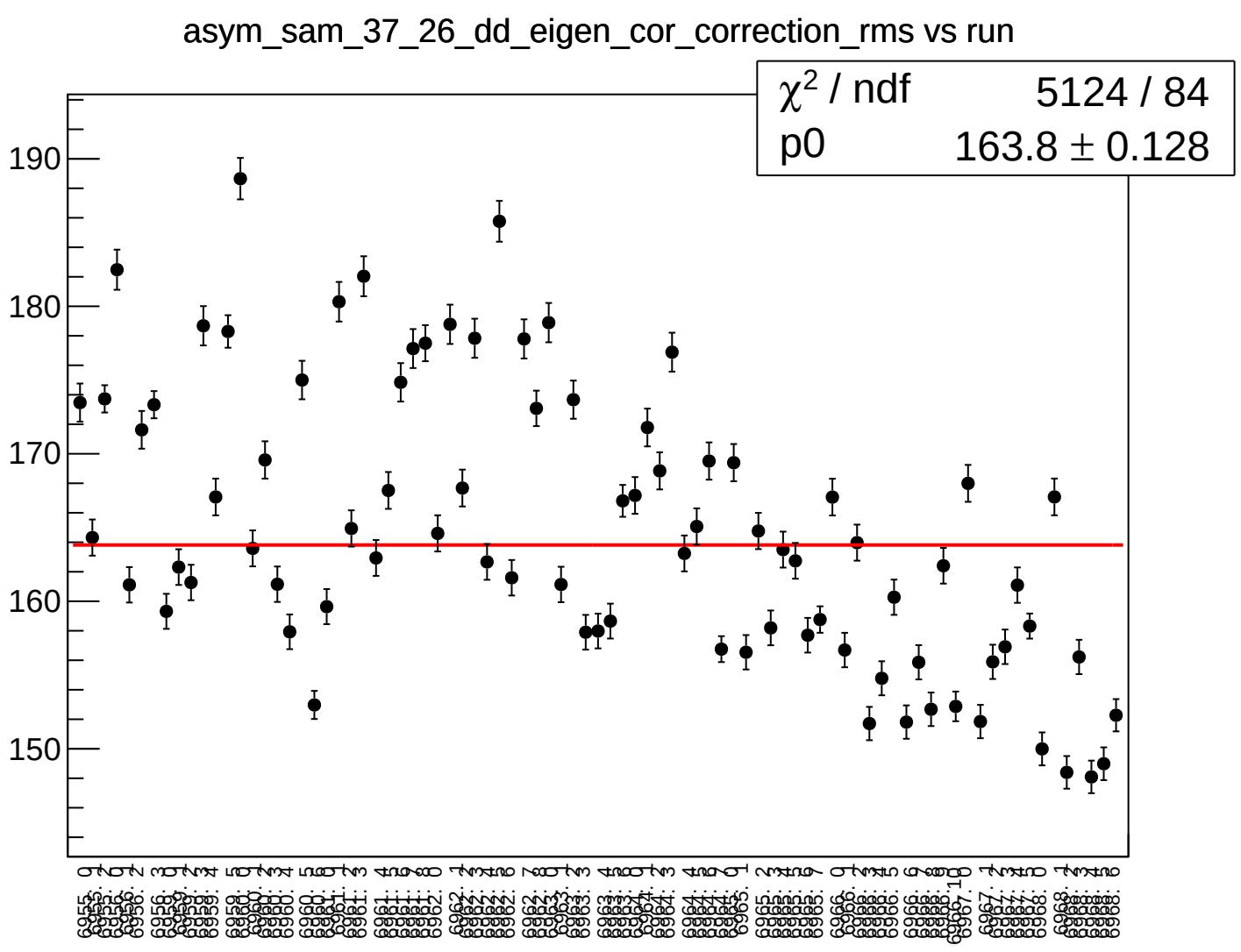

pull1D
Entries 85
Mean 0.004937
Std Dev 0.9381

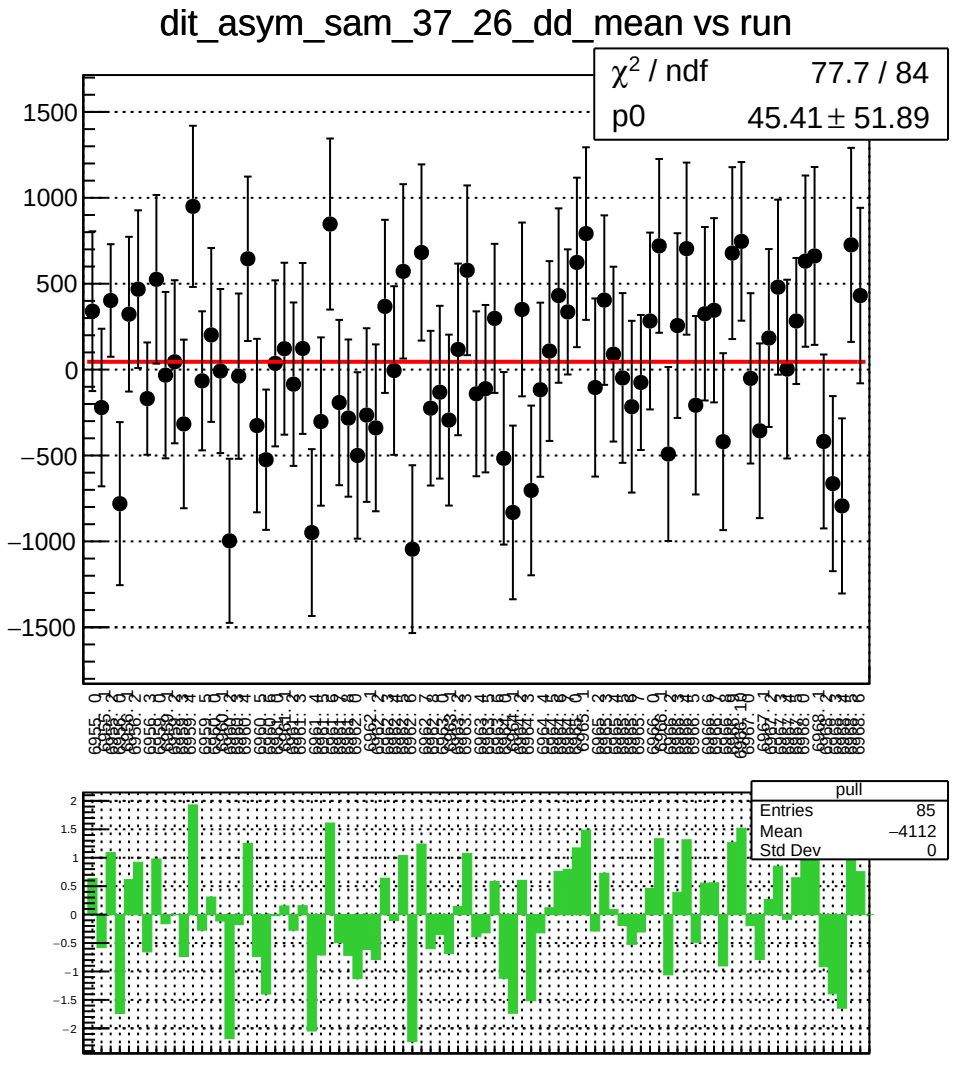

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 5124 / 84
p0 163.8 ± 0.128
190
180
170
160
150

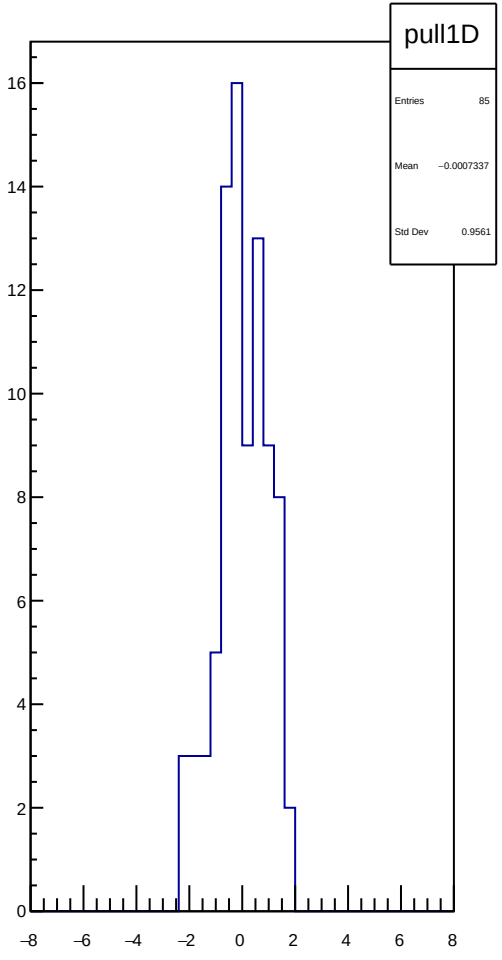

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 83.01 / 84
p0 68.77 ± 46.14
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean −993.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.002737
Std Dev 0.9882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

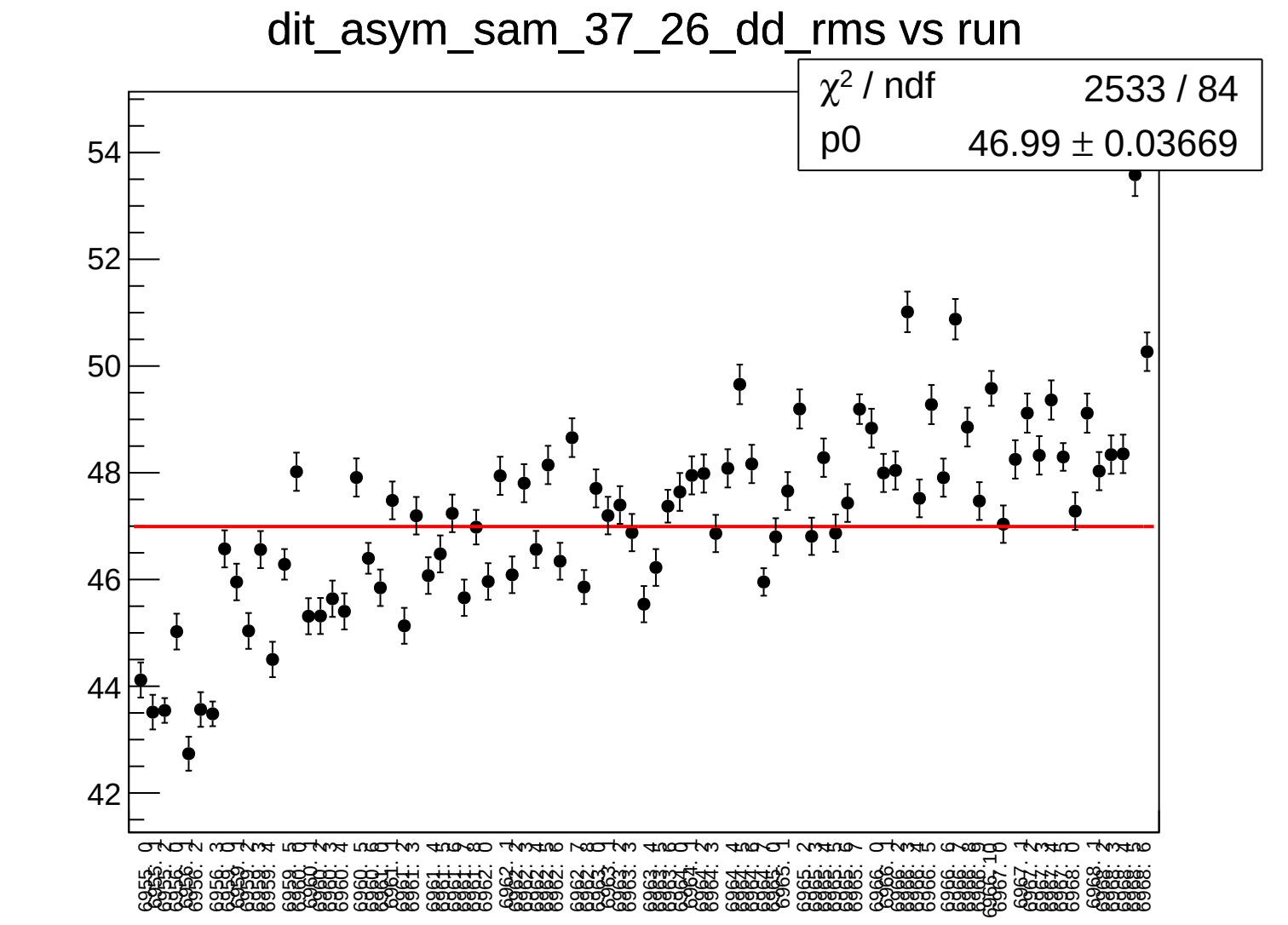

eigen_cor_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 2002 / 84
p0 41.79 ± 0.03262
46
45
44
43
42
41
40
39

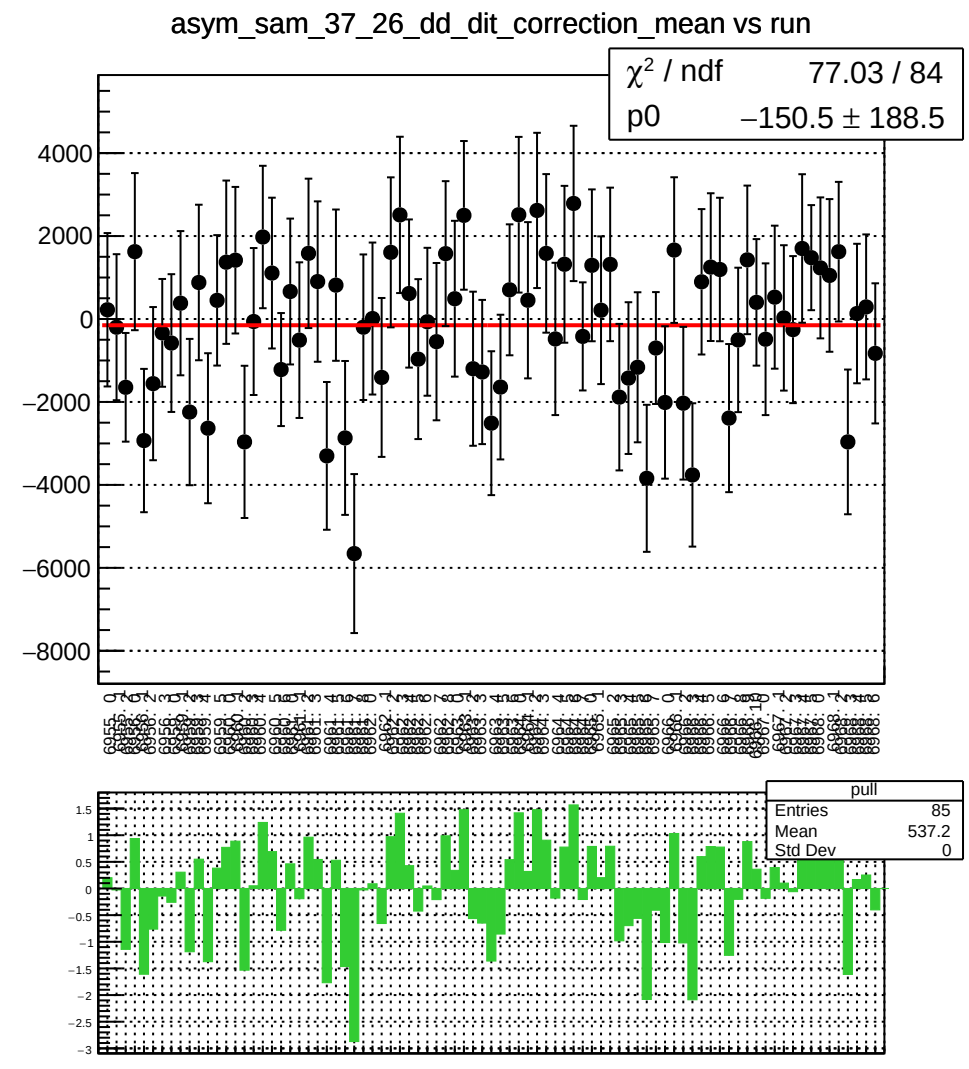

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.8 / 84
p0 −128.2 ± 181
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 85
Mean 552.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean 0.004937
Std Dev 0.9381
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

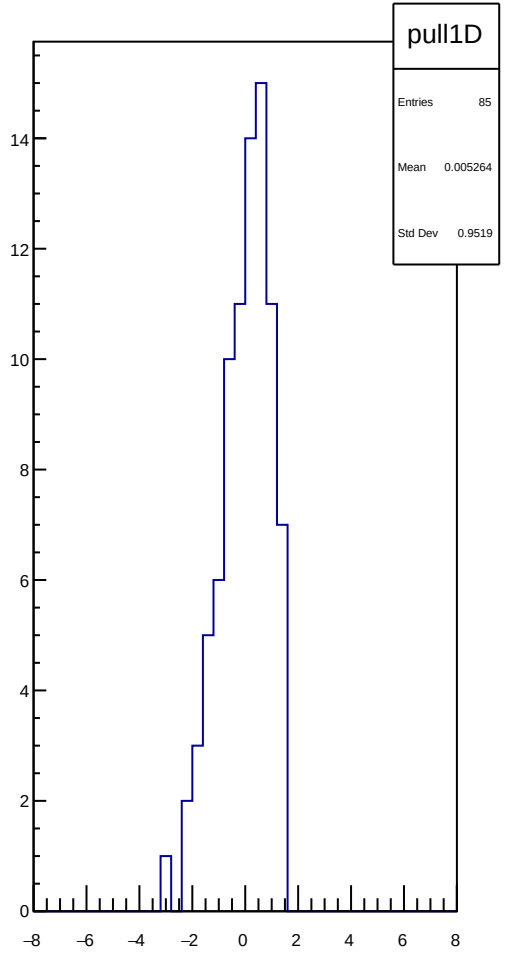

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5124 / 84
p0 163.8 ± 0.128
190
180
170
160
150

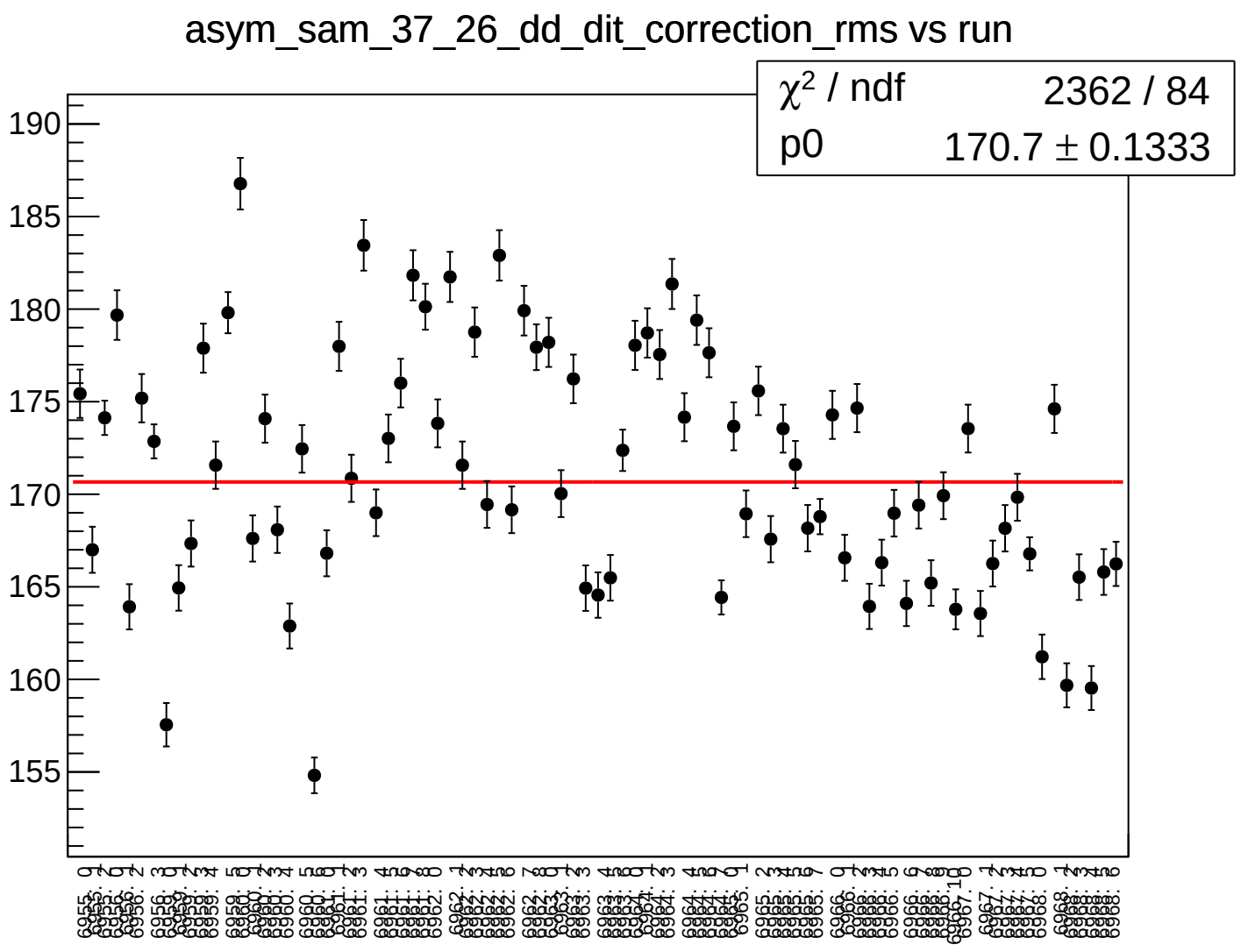

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 77.7 / 84
p0 45.41 ± 51.89
pull
Entries 85
Mean −4112
Std Dev 0

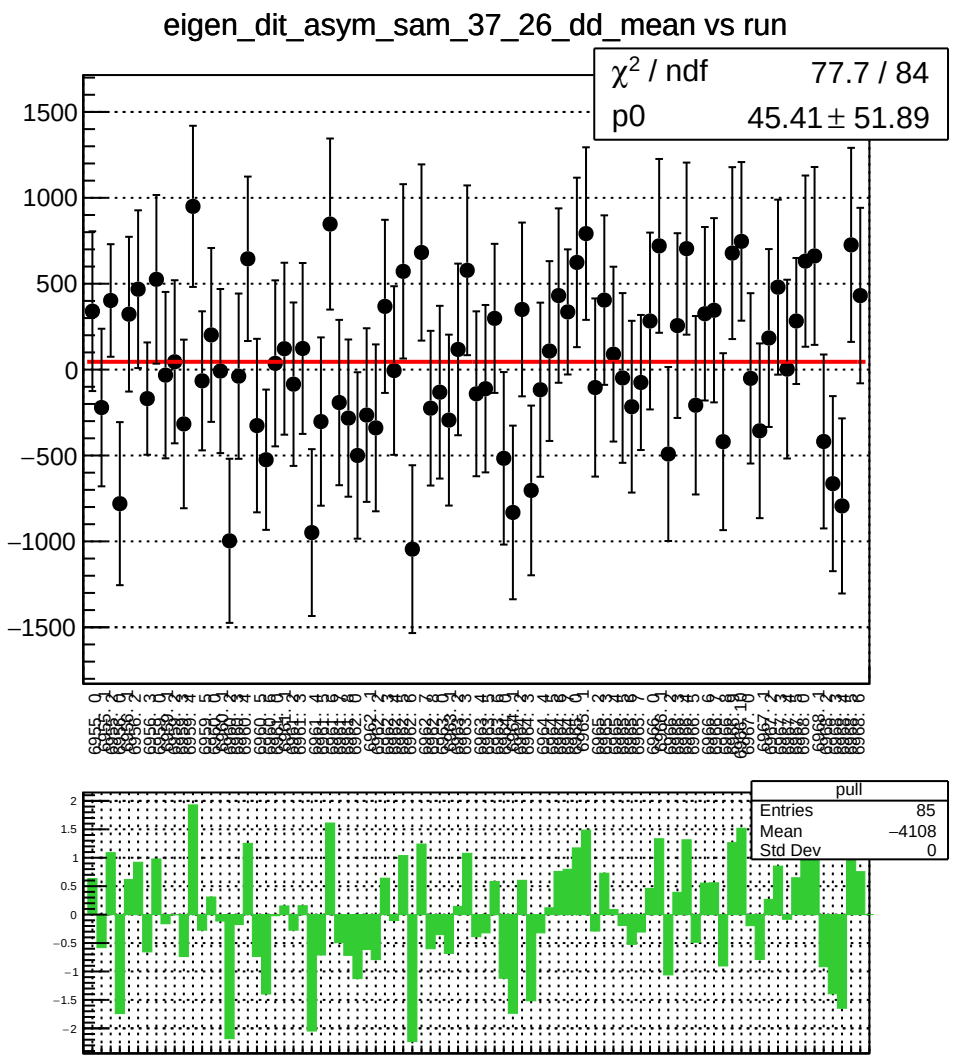

pull1D
Entries 85
Mean −0.0007337
Std Dev 0.9561

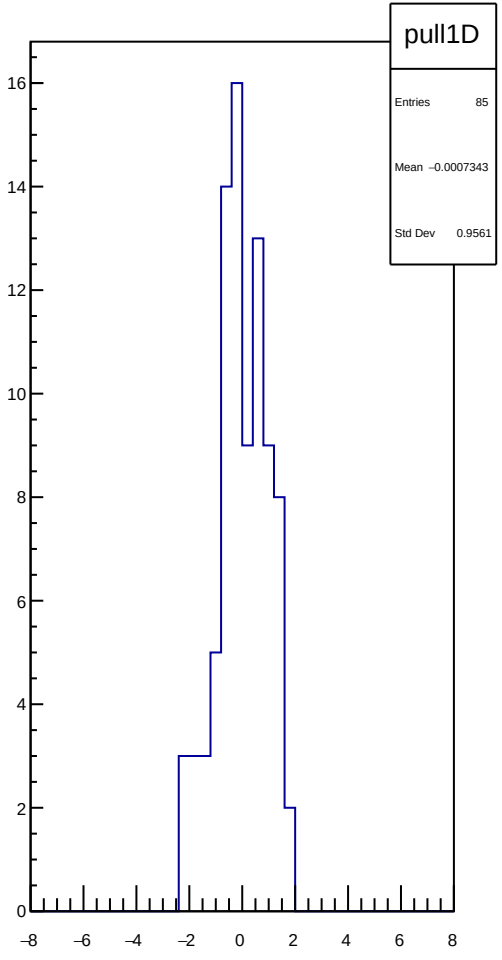

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2533 / 84
p0 46.99 ± 0.03669
54
52
50
48
46
44
42

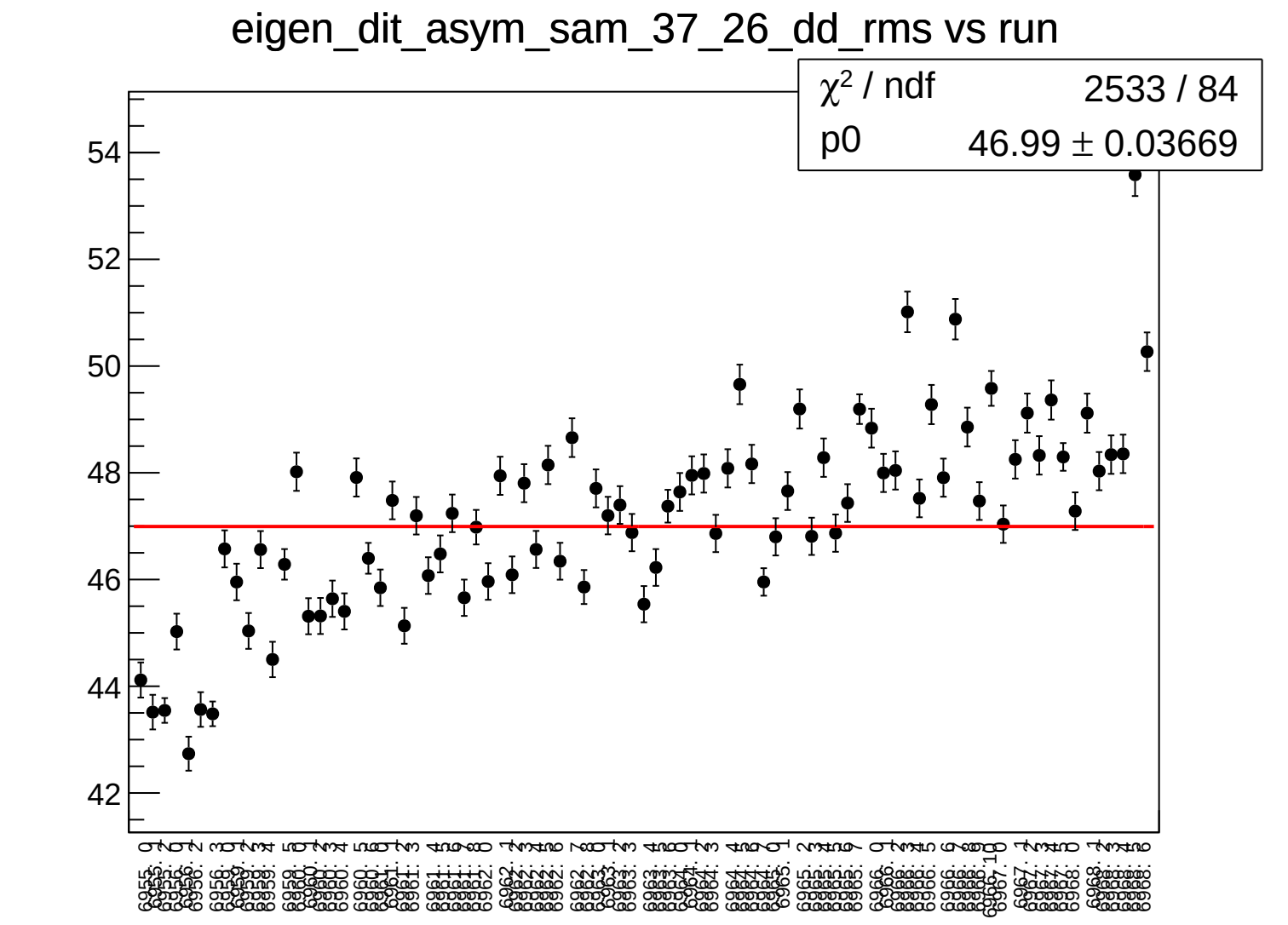

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 77.03 / 84
p0 −150.5 ± 188.5
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 85
Mean 537.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

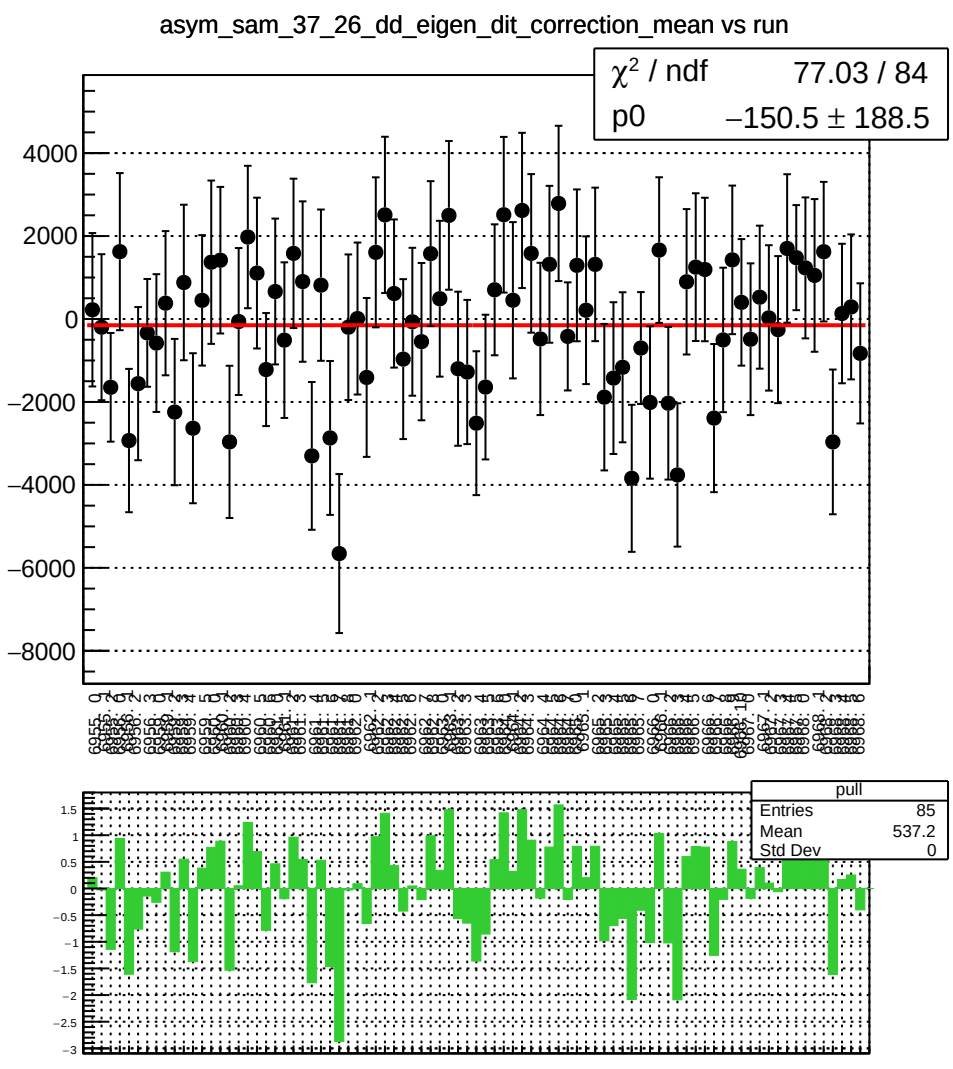

pull1D
Entries 85
Mean 0.005264
Std Dev 0.9519
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

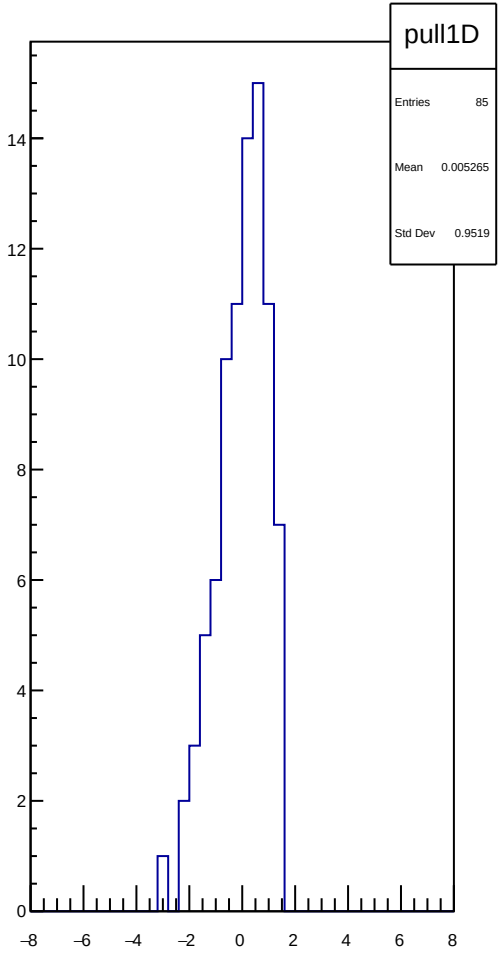

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 2362 / 84
p0 170.7 ± 0.1333
190
185
180
175
170
165
160
155

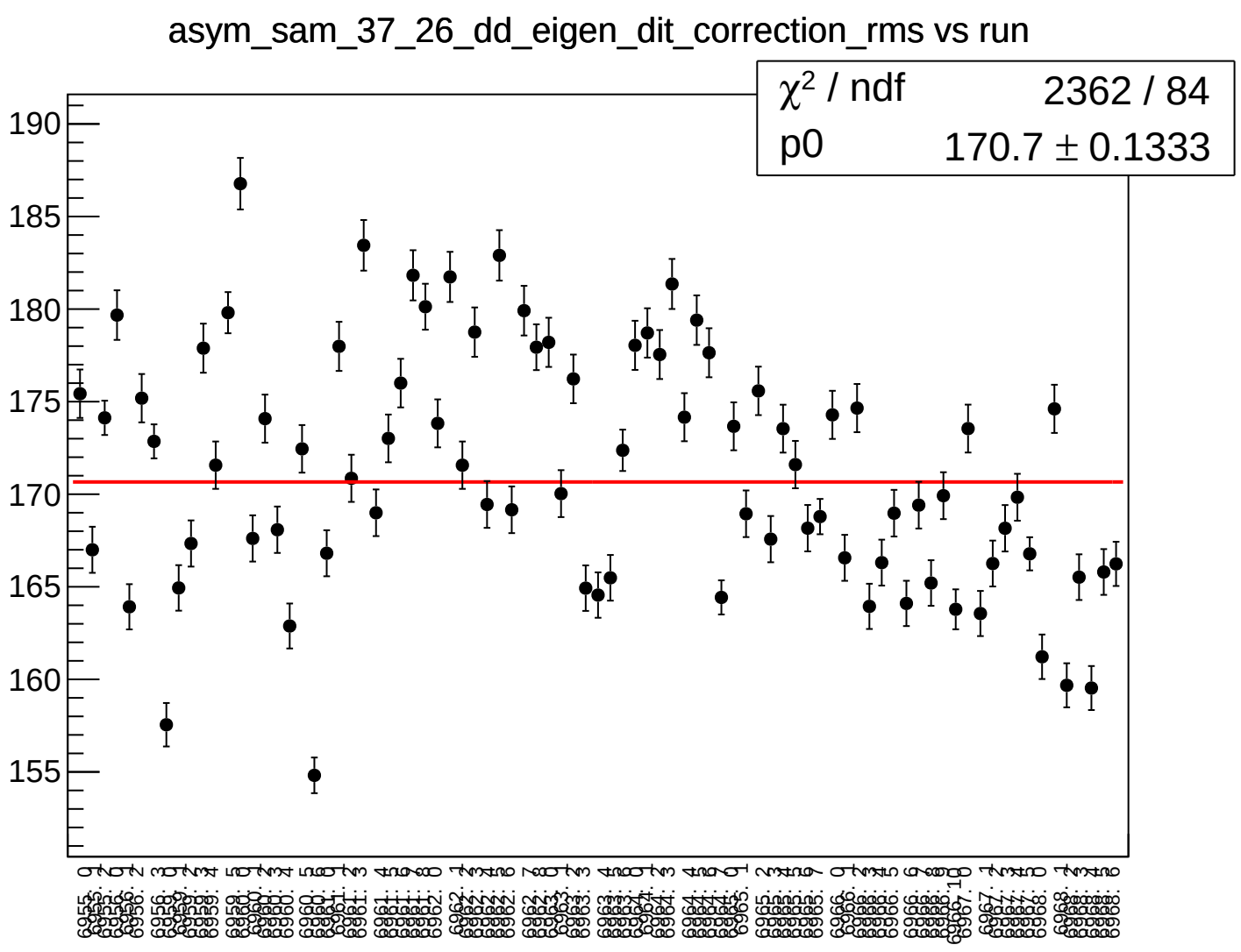

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 77.7 / 84
p0 45.41 ± 51.89
pull
Entries 85
Mean −4108
Std Dev 0

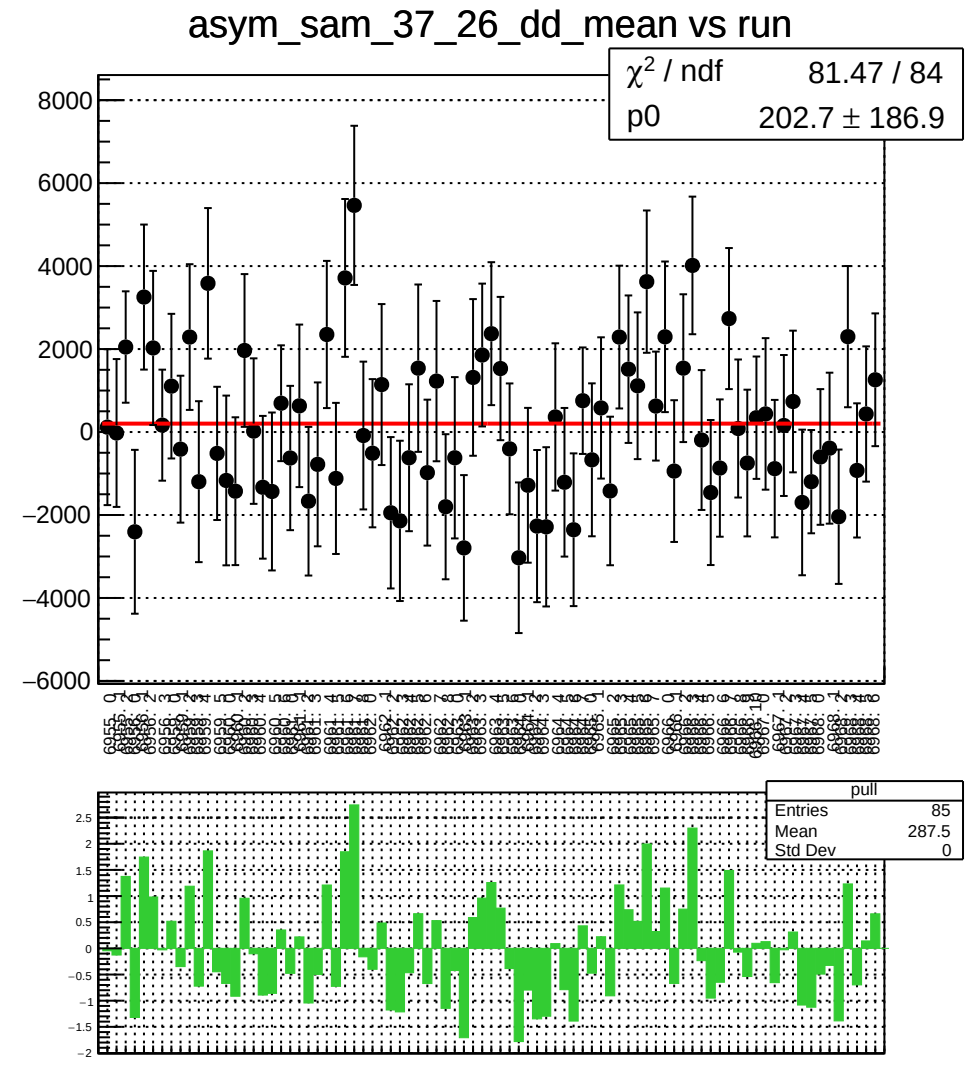

pull1D
Entries 85
Mean −0.0007343
Std Dev 0.9561

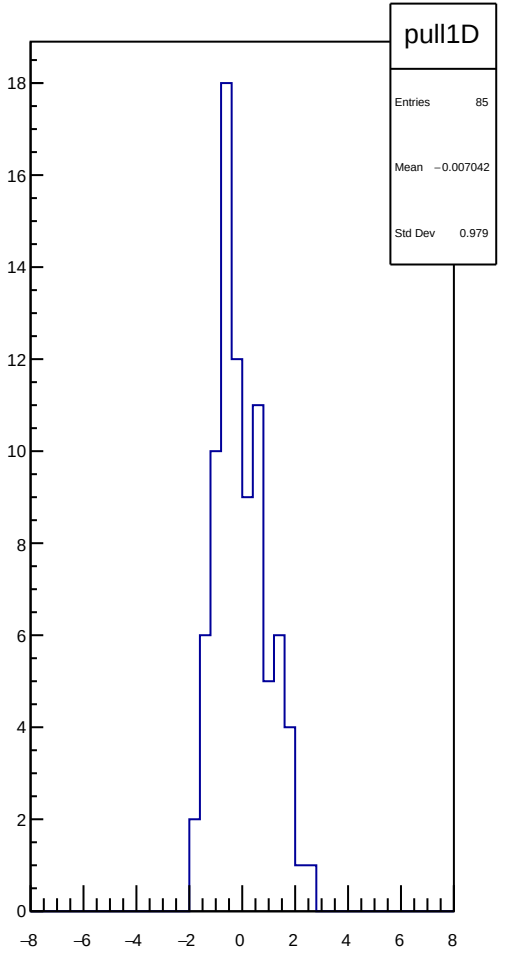

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2533 / 84
p0 46.99 ± 0.03669
54
52
50
48
46
44
42

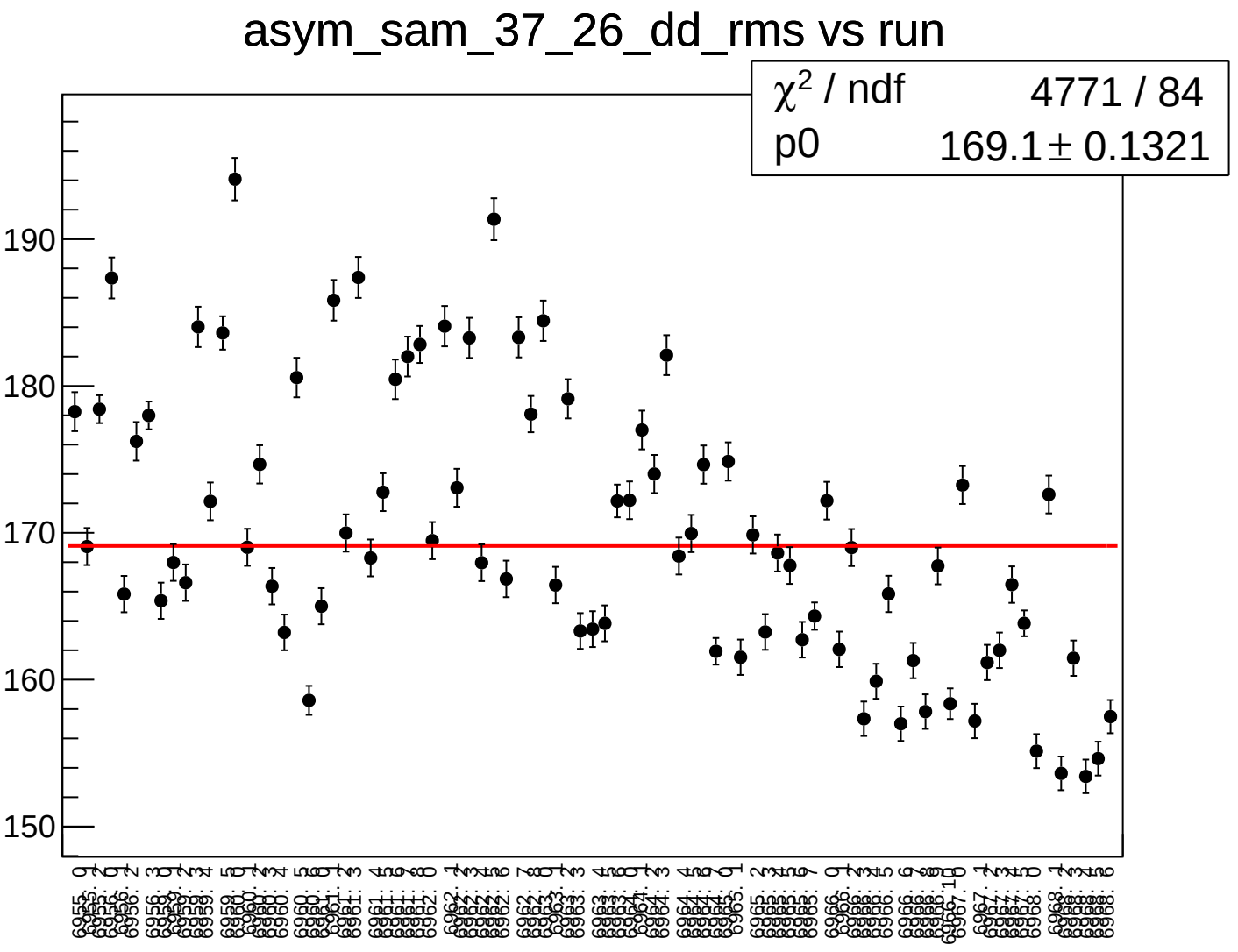

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.03 / 84
p0 −150.5 ± 188.5
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 85
Mean 537.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

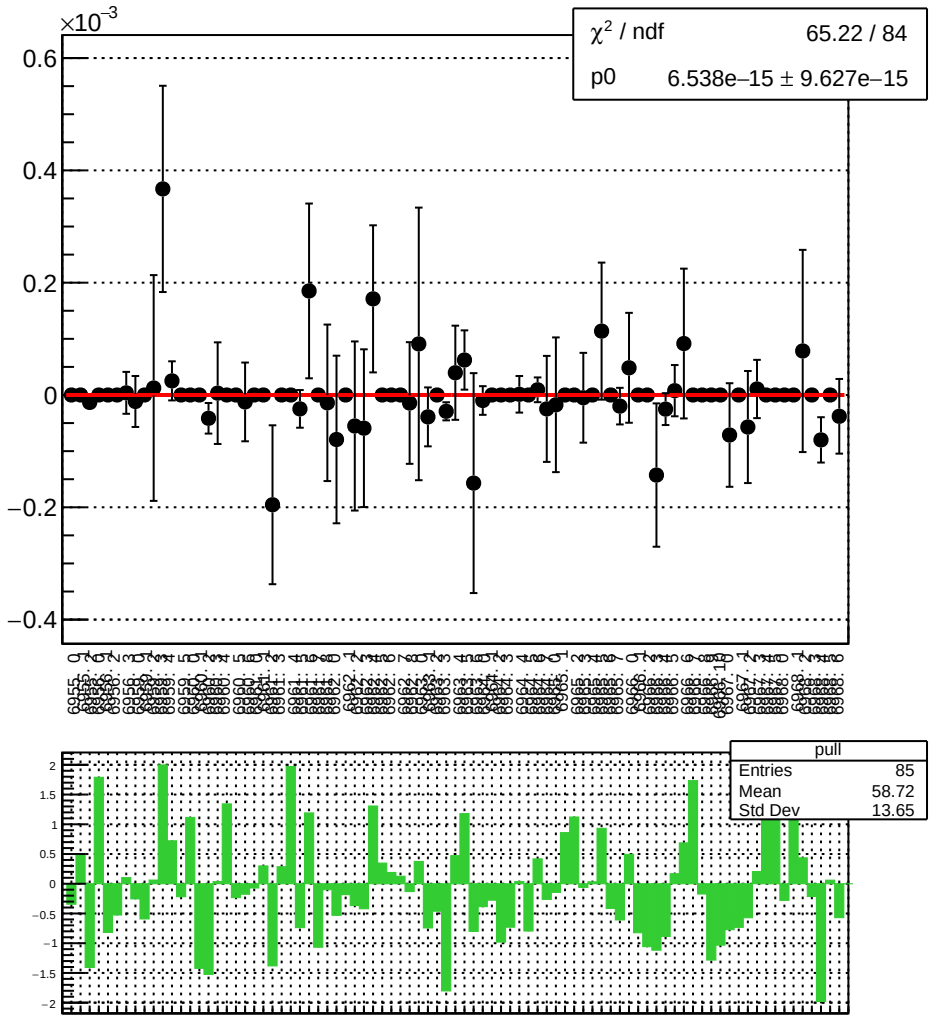

pull1D
Entries 85
Mean 0.005265
Std Dev 0.9519
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

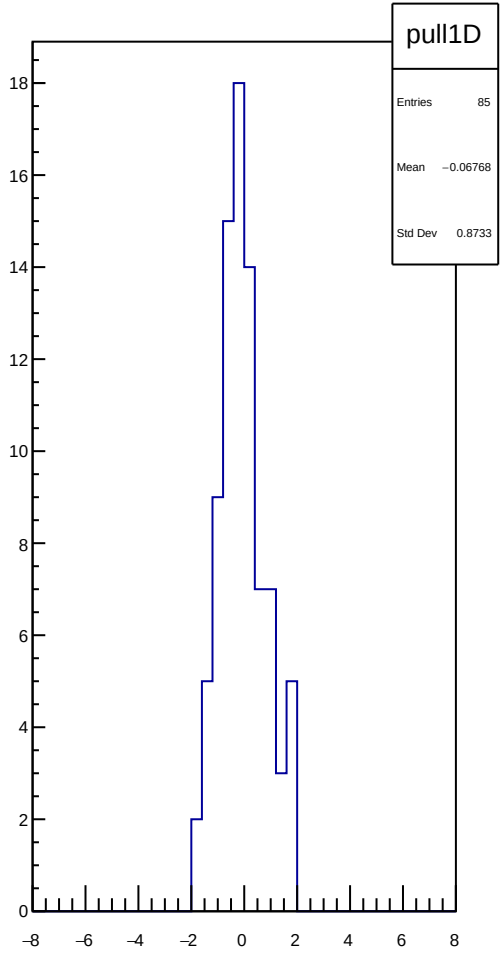

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2362 / 84
p0 170.7 ± 0.1333
190
185
180
175
170
165
160
155

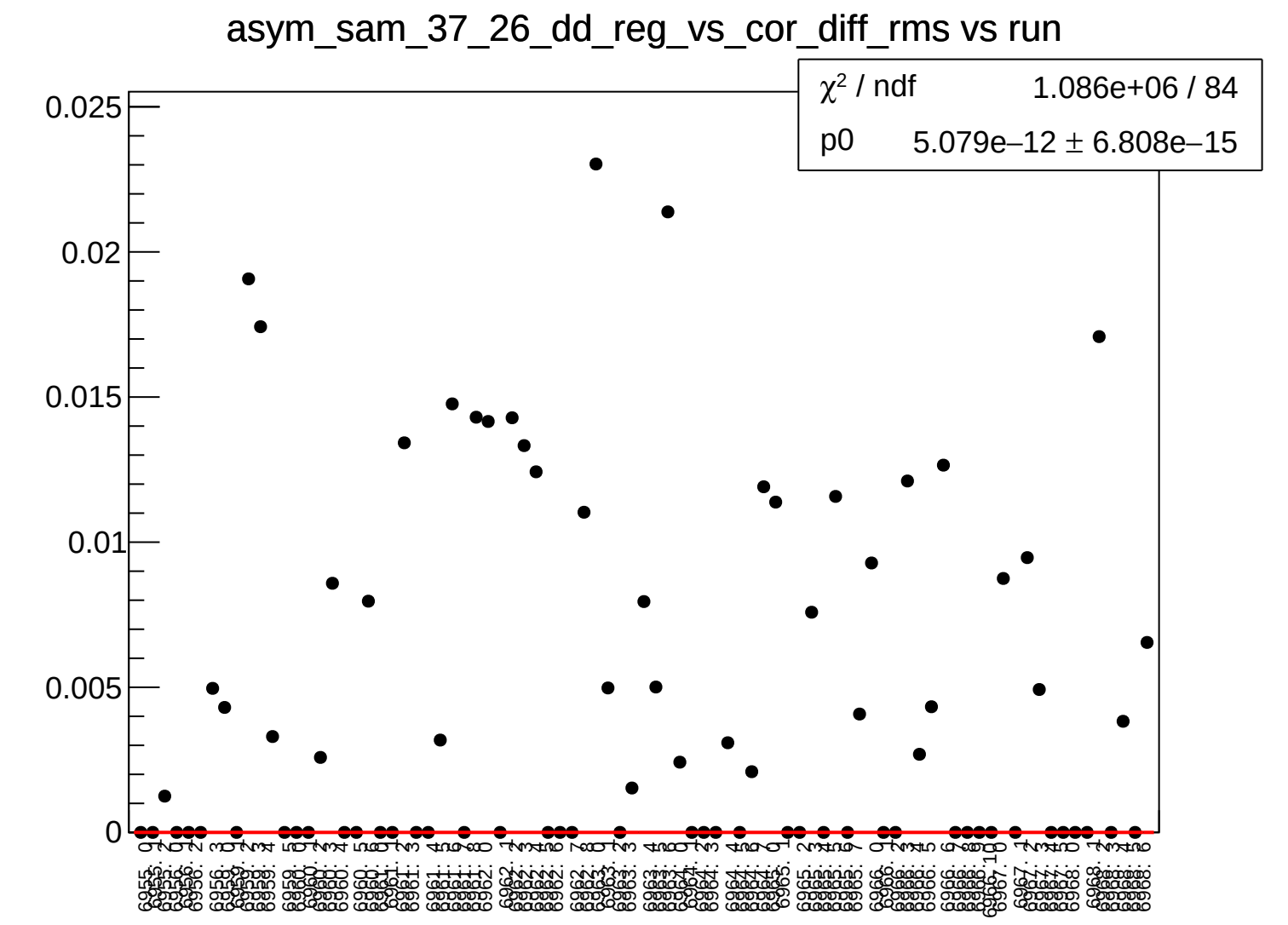

asym_sam_37_26_dd_mean vs run
χ² / ndf 81.47 / 84
p0 202.7 ± 186.9
pull
Entries 85
Mean 287.5
Std Dev 0

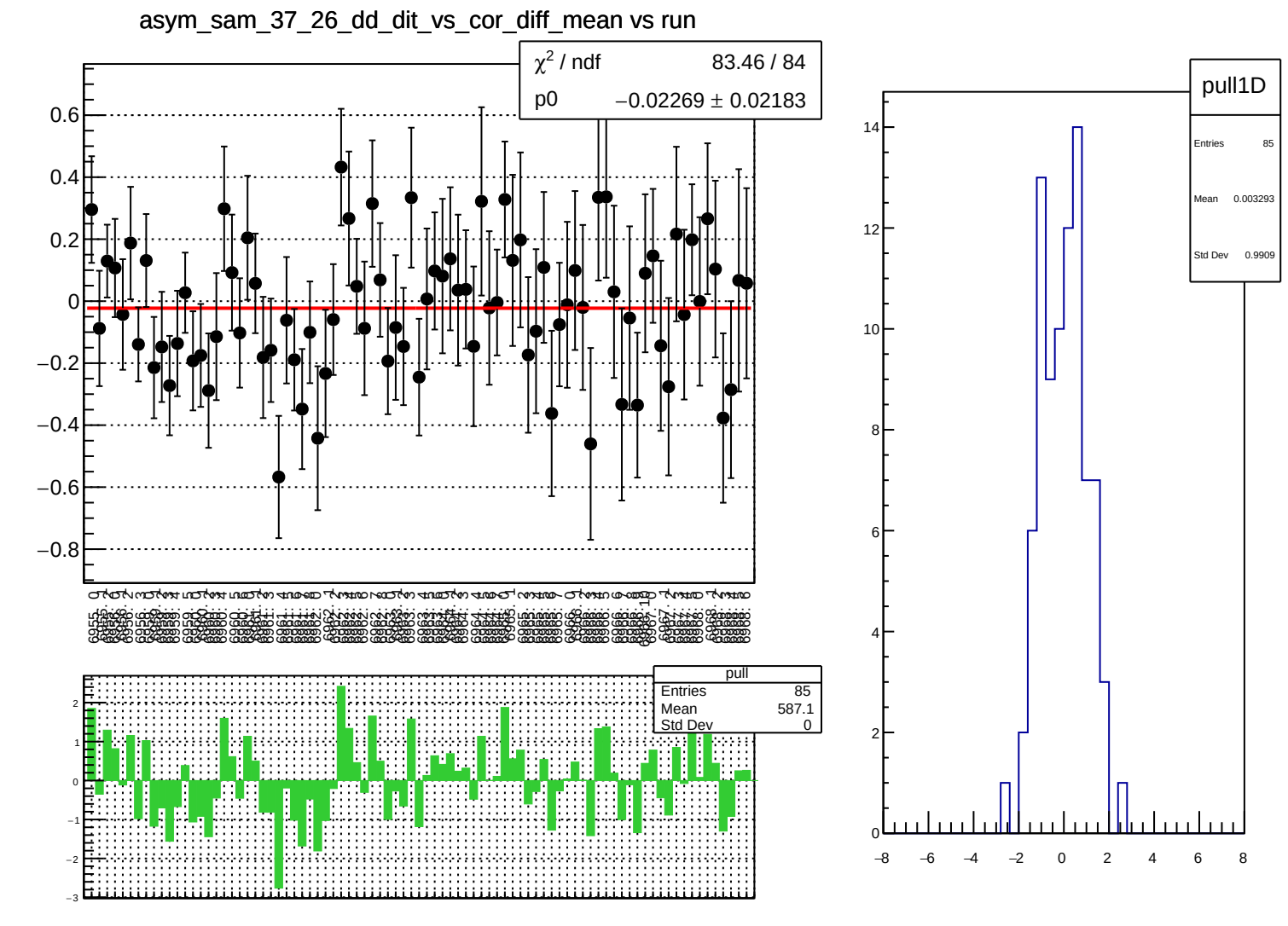

pull1D
Entries 85
Mean −0.007042
Std Dev 0.979

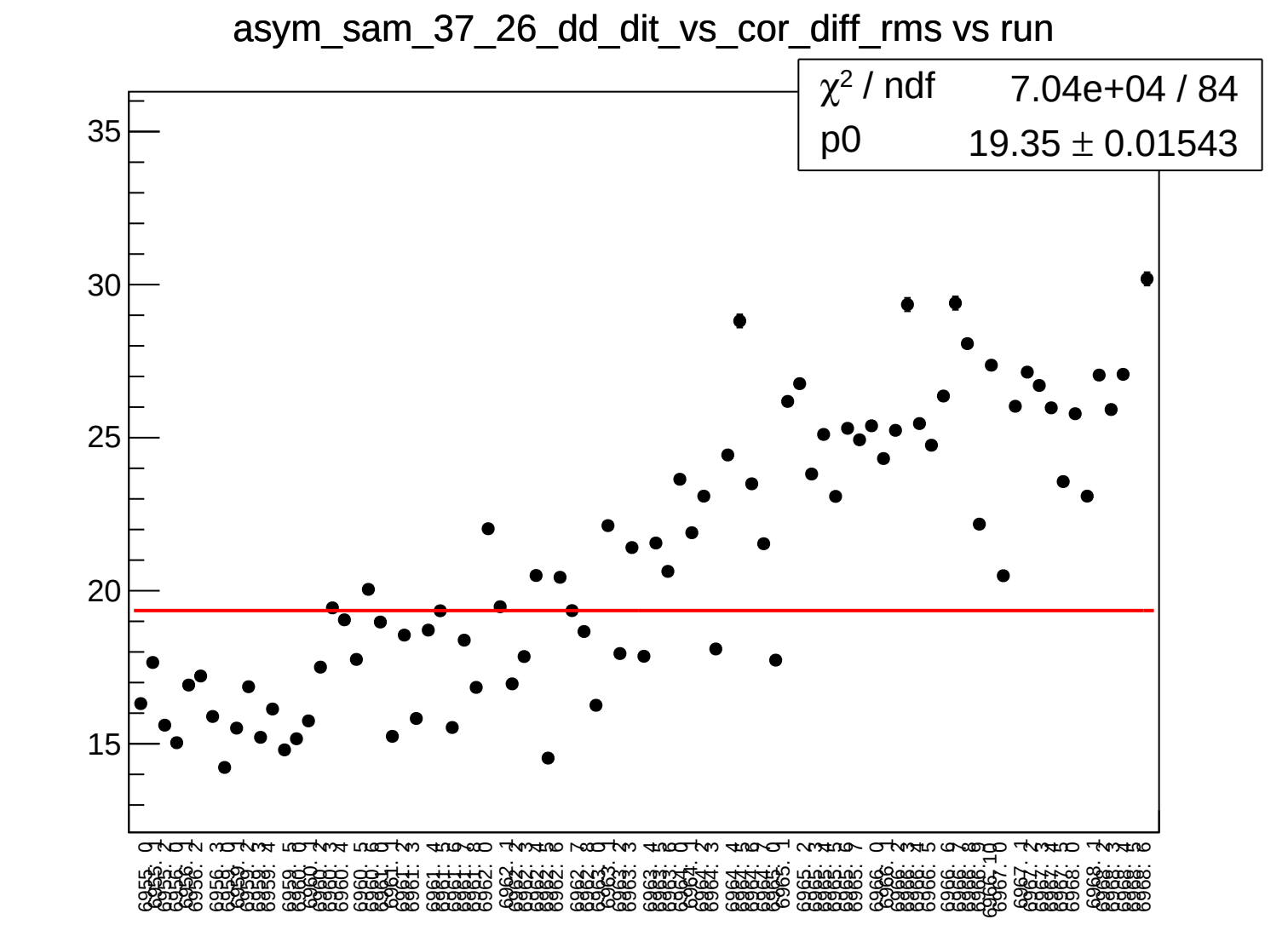

asym_sam_37_26_dd_rms vs run
χ² / ndf 4771 / 84
p0 169.1 ± 0.1321
190
180
170
160
150

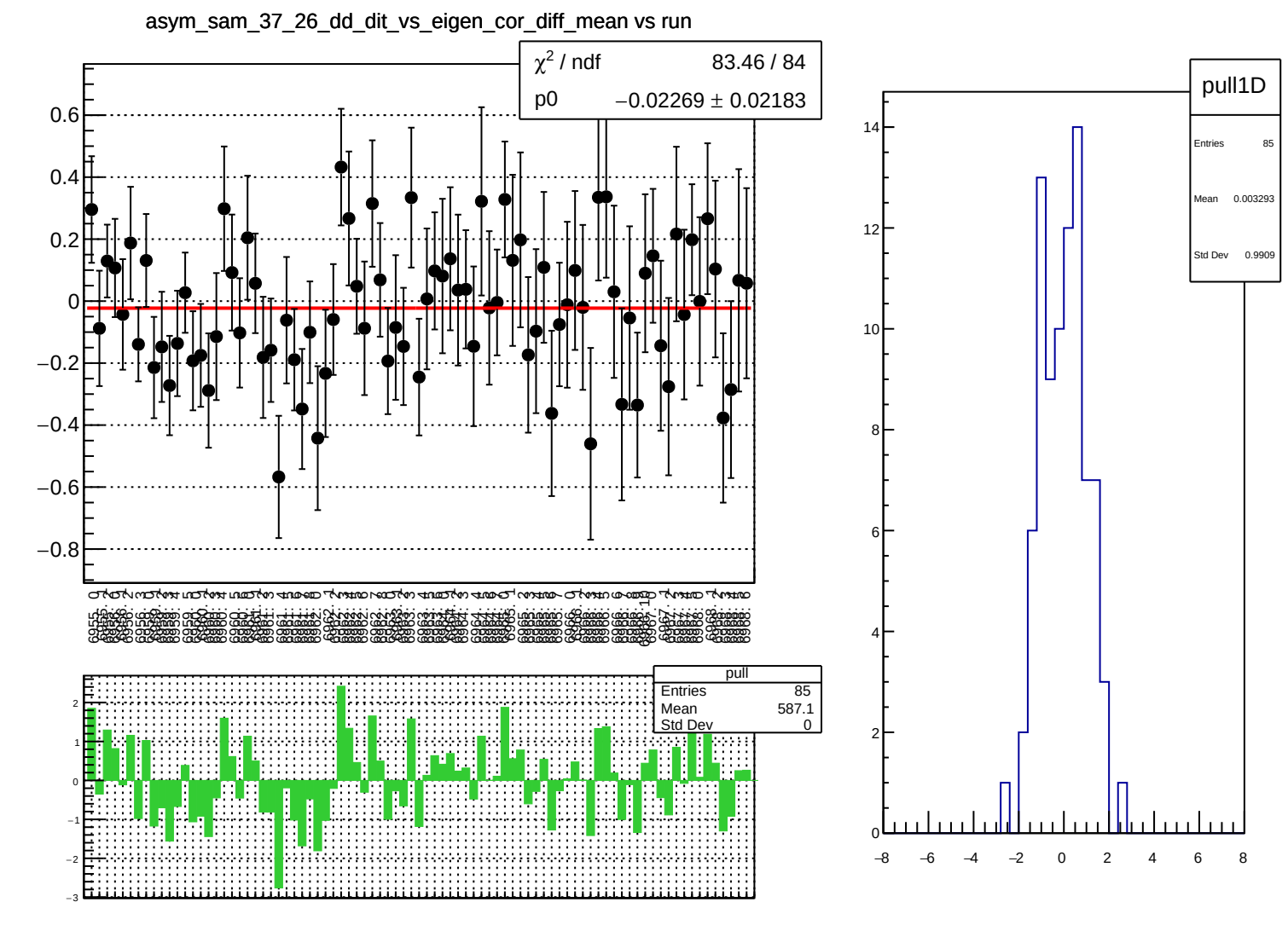

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 65.22 / 84
p0 6.538e−15 ± 9.627e−15
pull
Entries 85
Mean 58.72
Std Dev 13.65

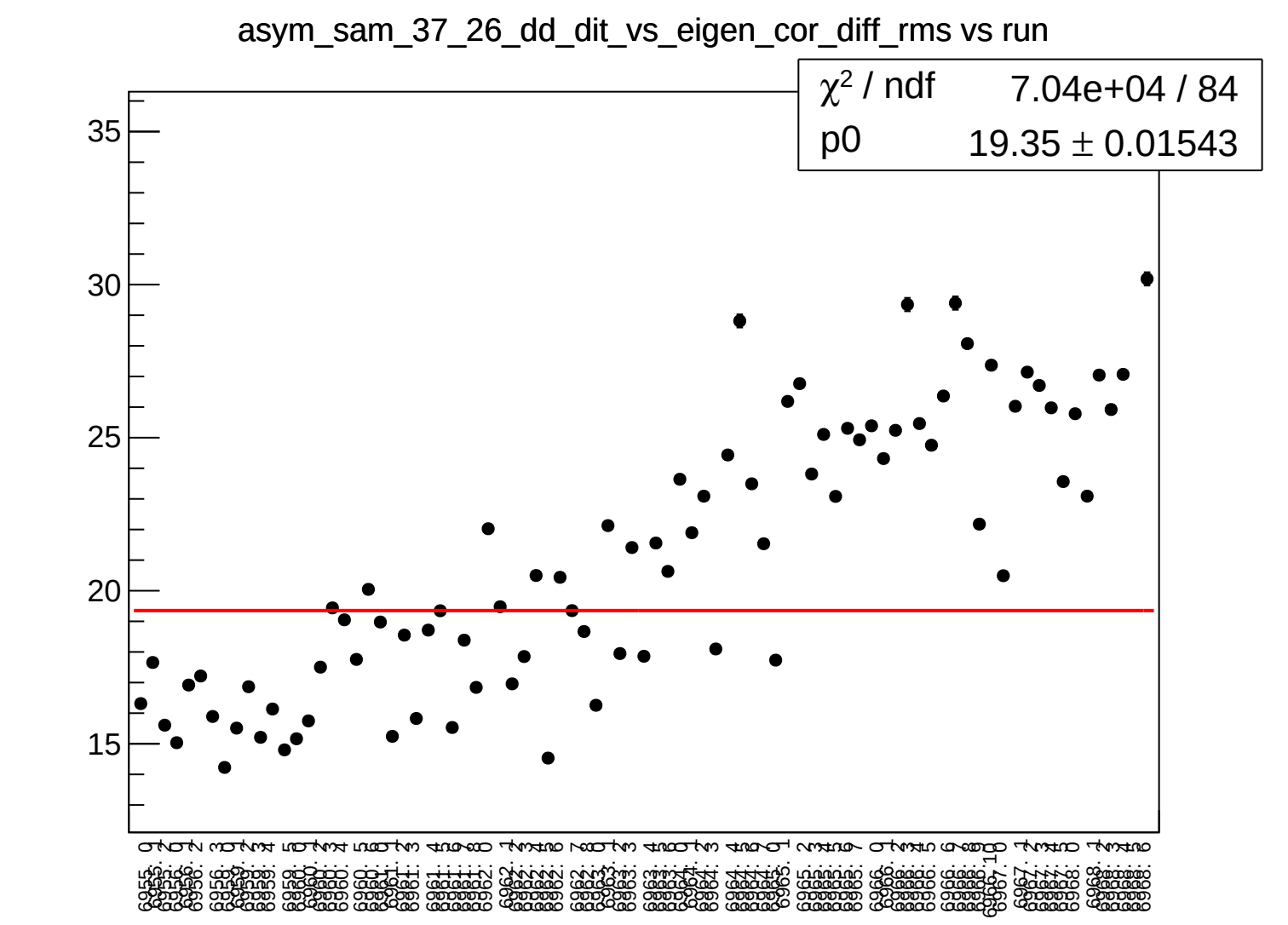

pull1D
Entries 85
Mean −0.06768
Std Dev 0.8733

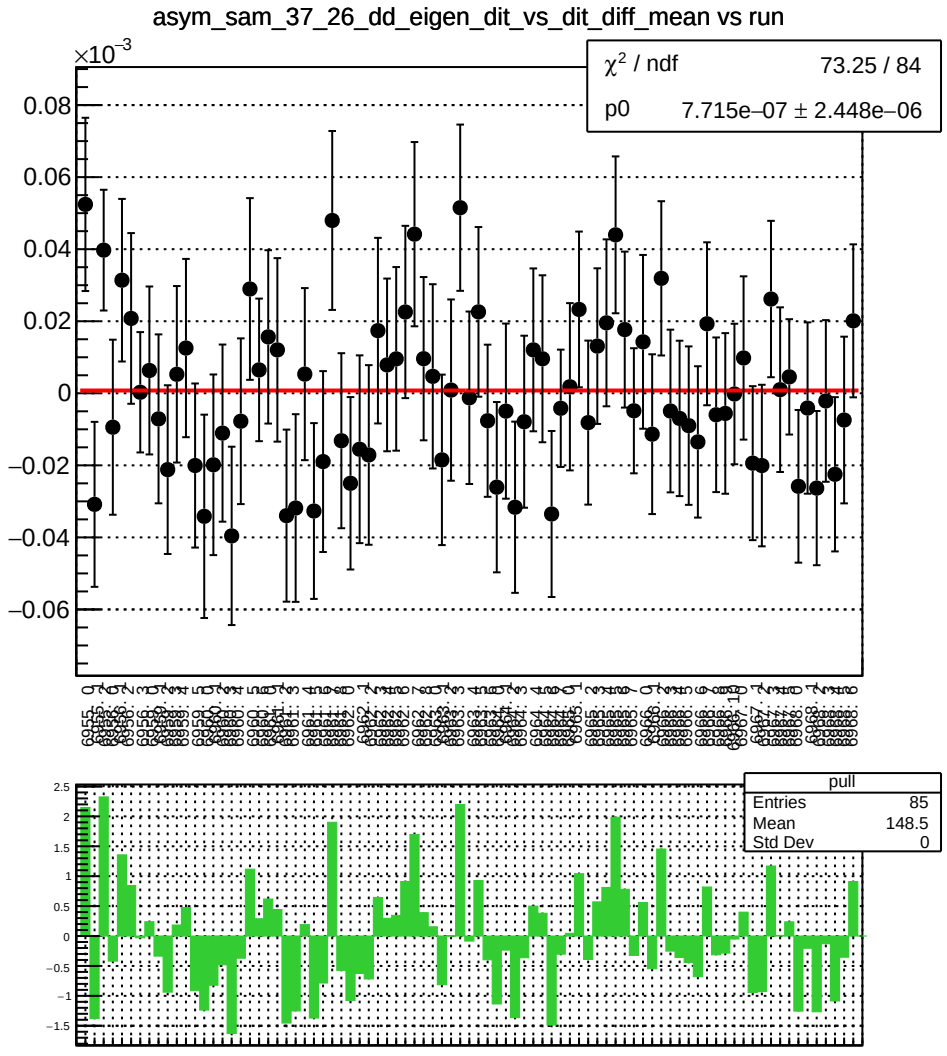

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.086e+06 / 84
p0 5.079e−12 ± 6.808e−15
0.025
0.02
0.015
0.01
0.005
0

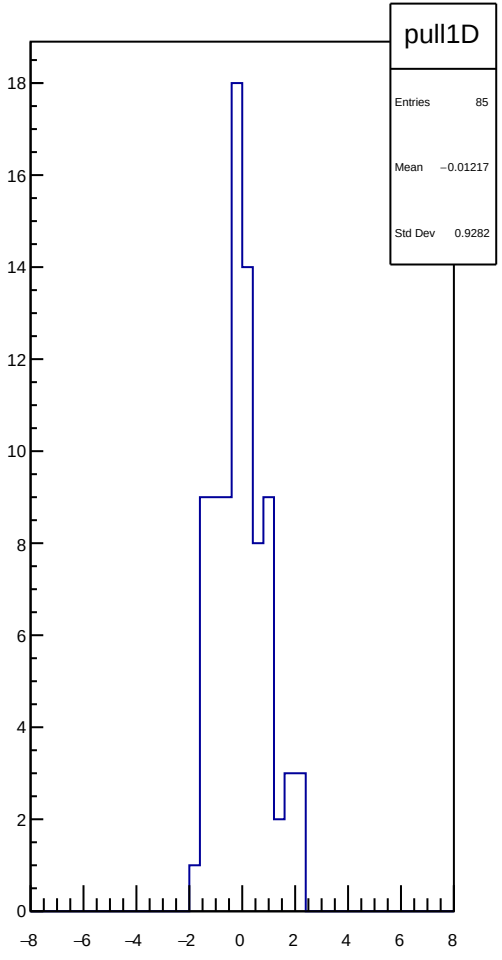

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.46 / 84
p0 −0.02269 ± 0.02183
pull
Entries 85
Mean 587.1
Std Dev 0
pull1D
Entries 85
Mean 0.003293
Std Dev 0.9909

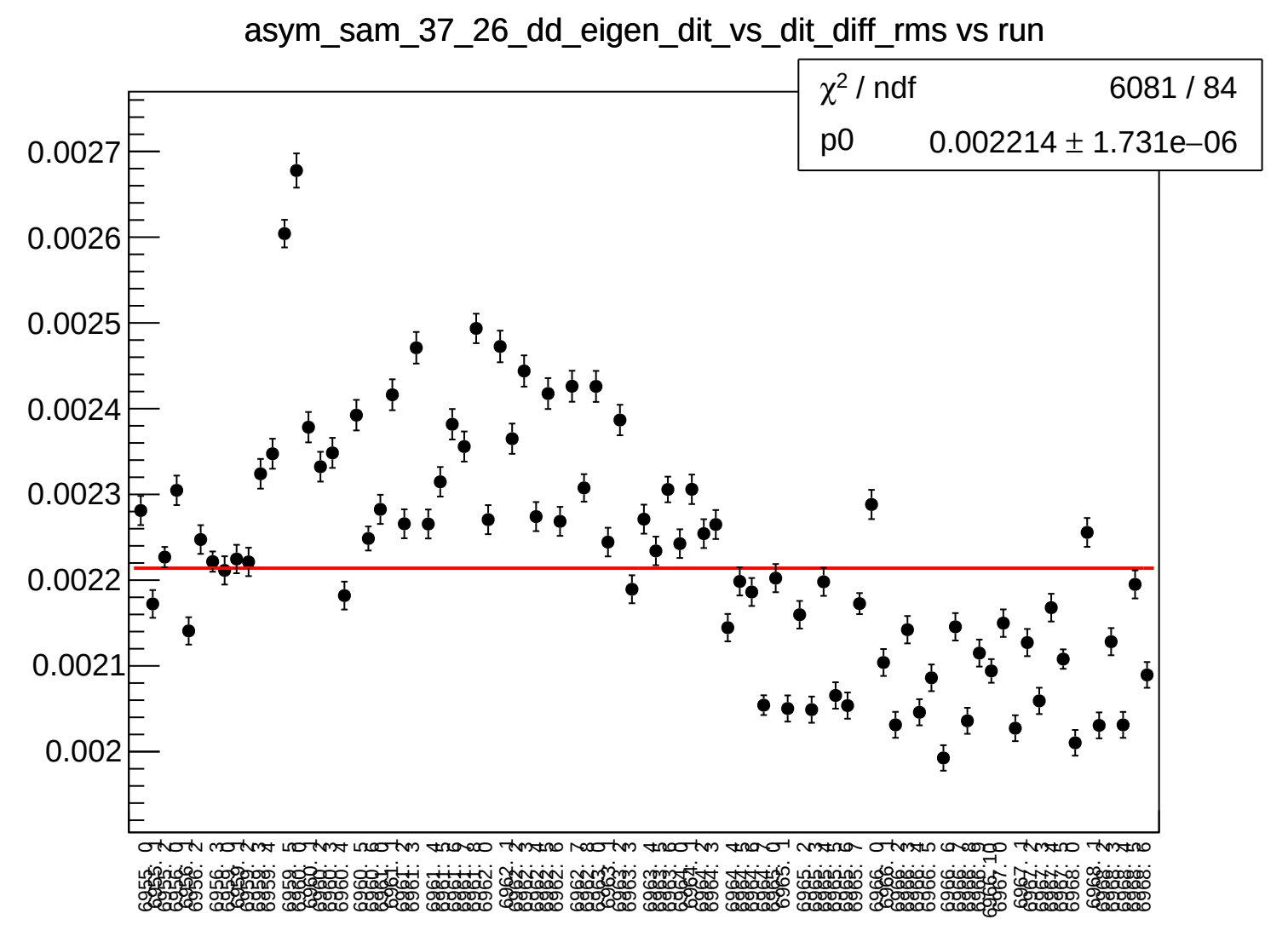

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.04e+04 / 84
p0 19.35 ± 0.01543
35
30
25
20
15

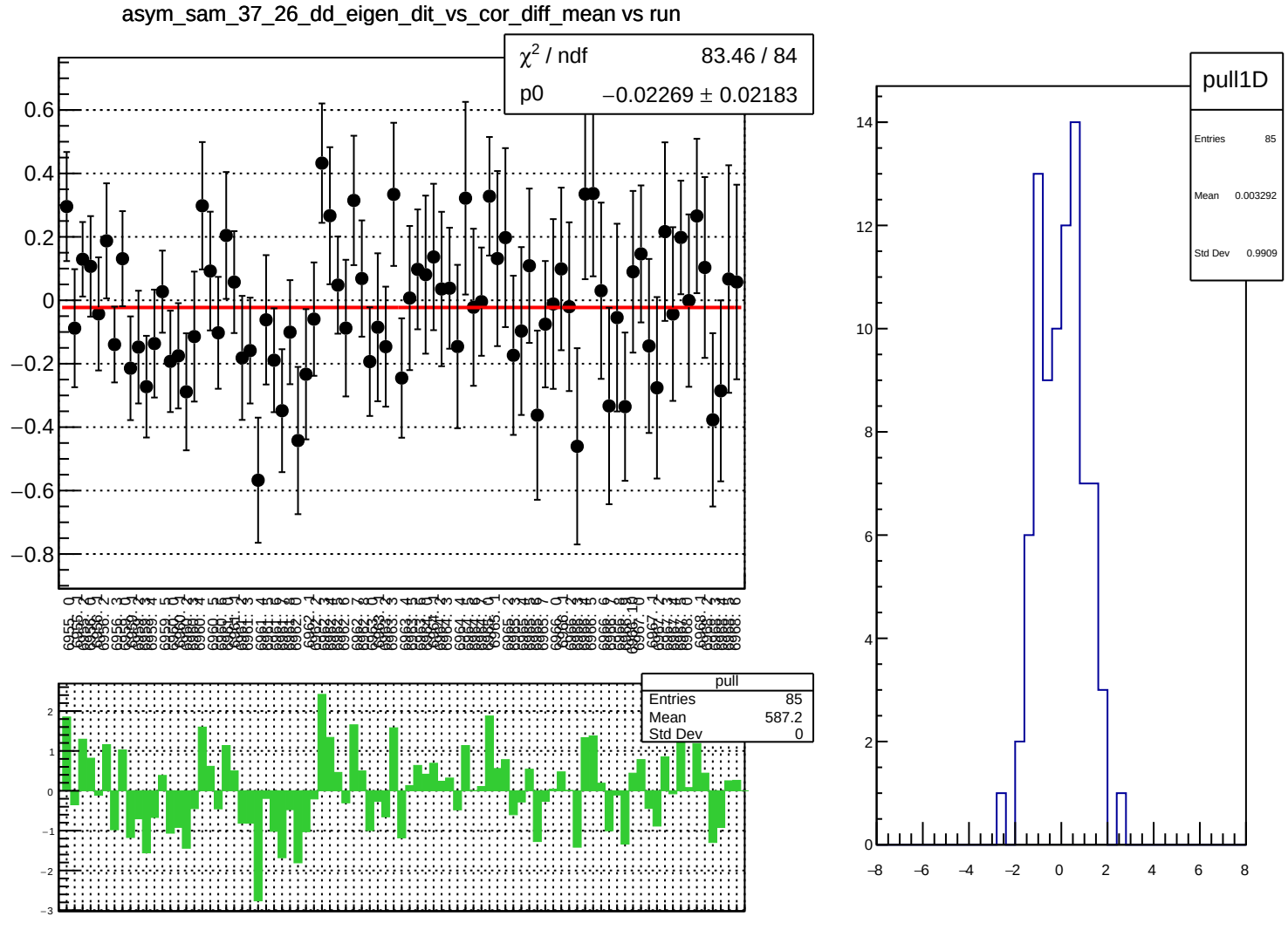

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.46 / 84
p0 −0.02269 ± 0.02183
pull
Entries 85
Mean 587.1
Std Dev 0
pull1D
Entries 85
Mean 0.003293
Std Dev 0.9909

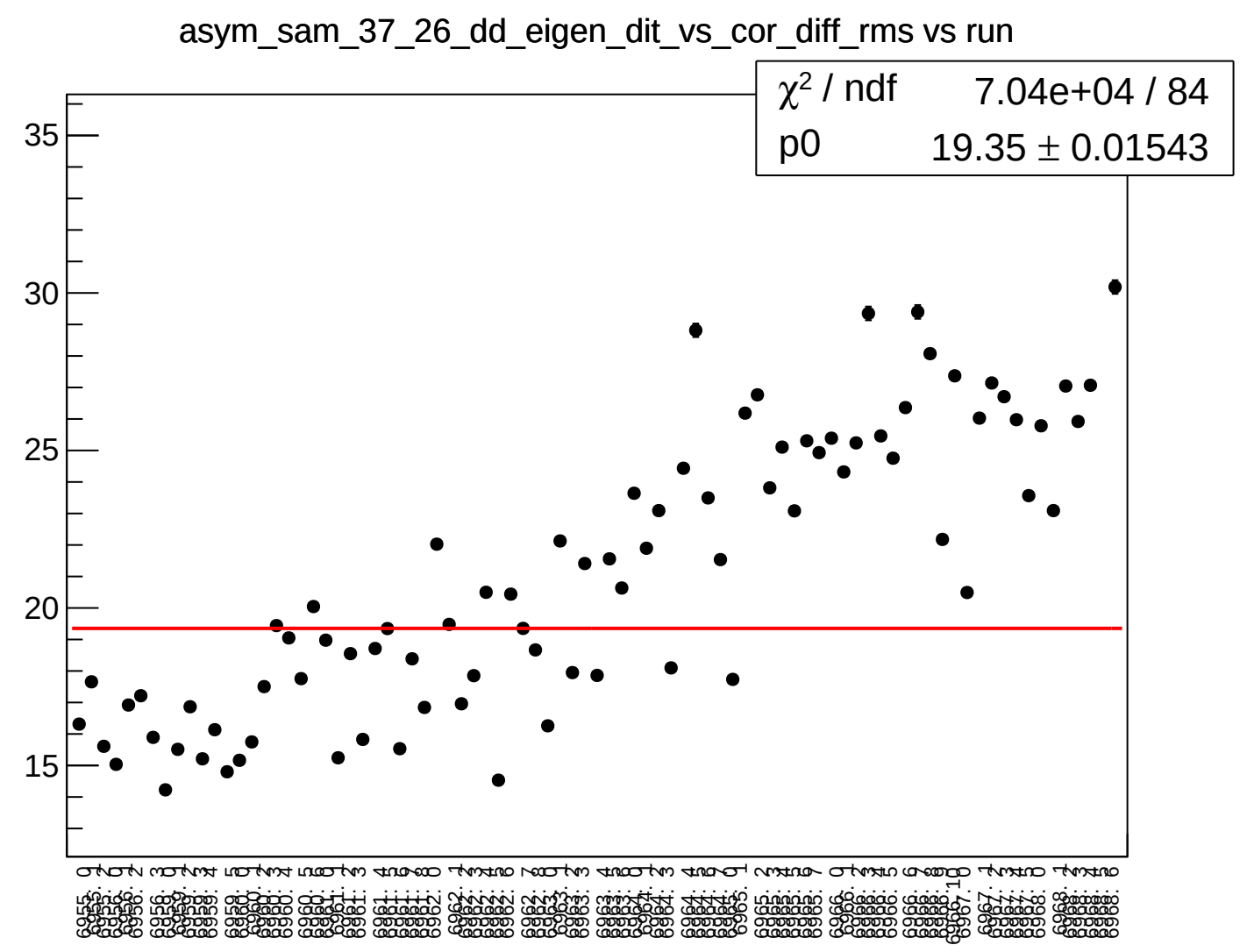

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.04e+04 / 84
p0 19.35 ± 0.01543
35
30
25
20
15

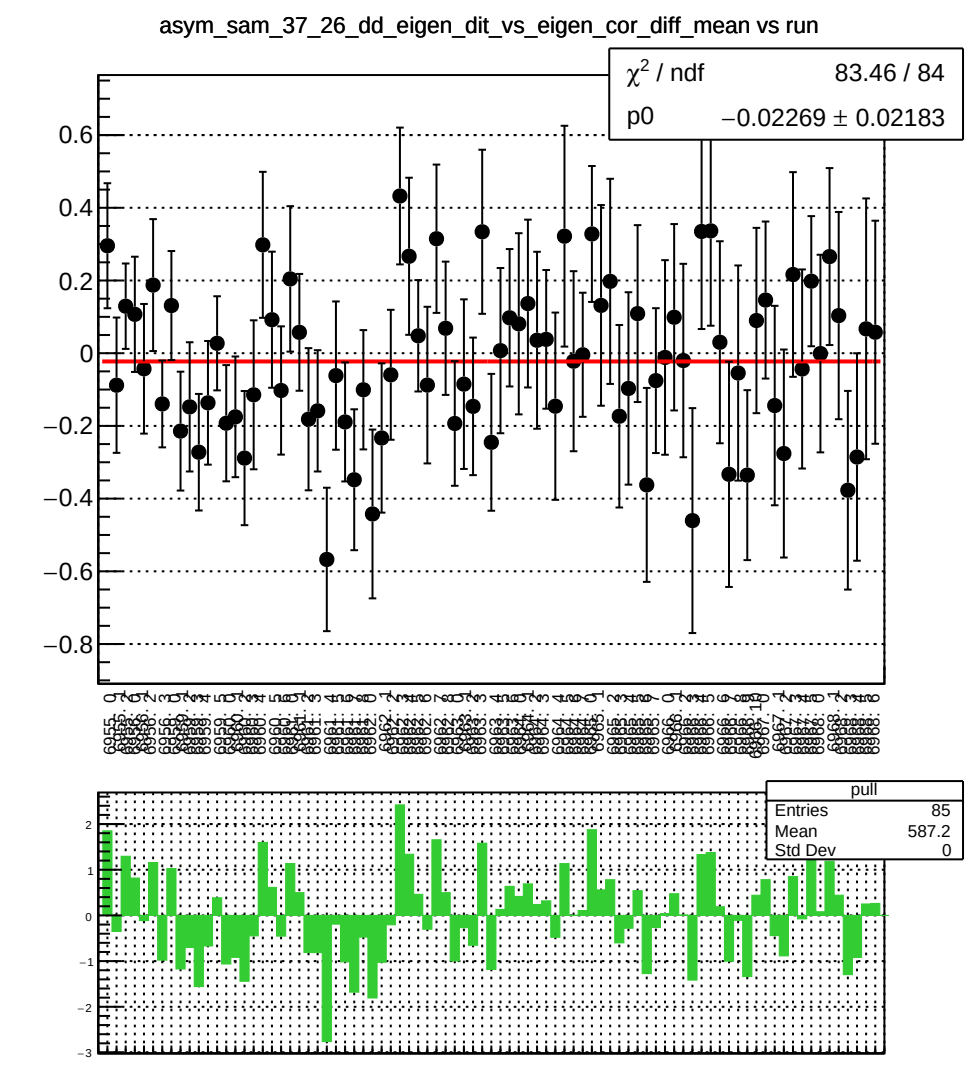

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.25 / 84
p0 7.715e−07 ± 2.448e−06
pull
Entries 85
Mean 148.5
Std Dev 0

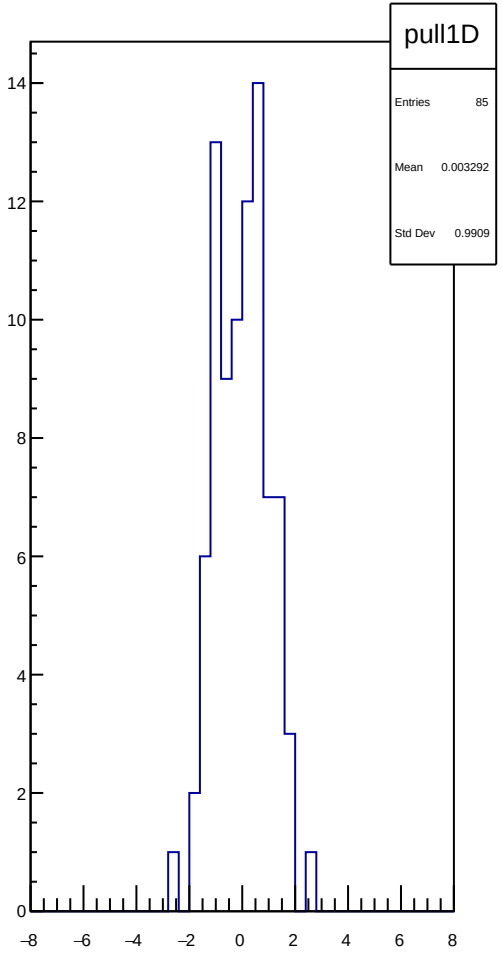

pull1D
Entries 85
Mean −0.01217
Std Dev 0.9282

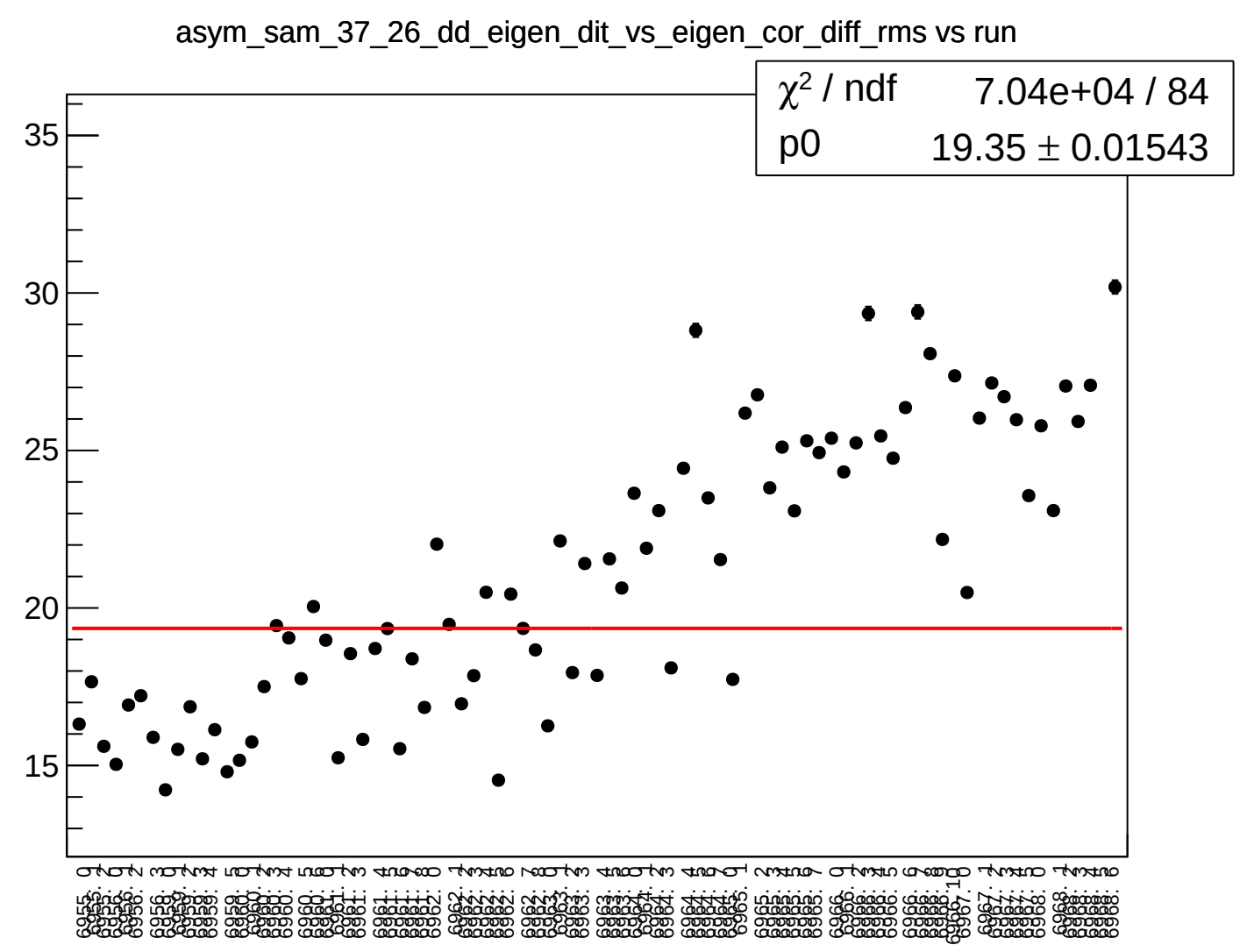

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6081 / 84
p0 0.002214 ± 1.731e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

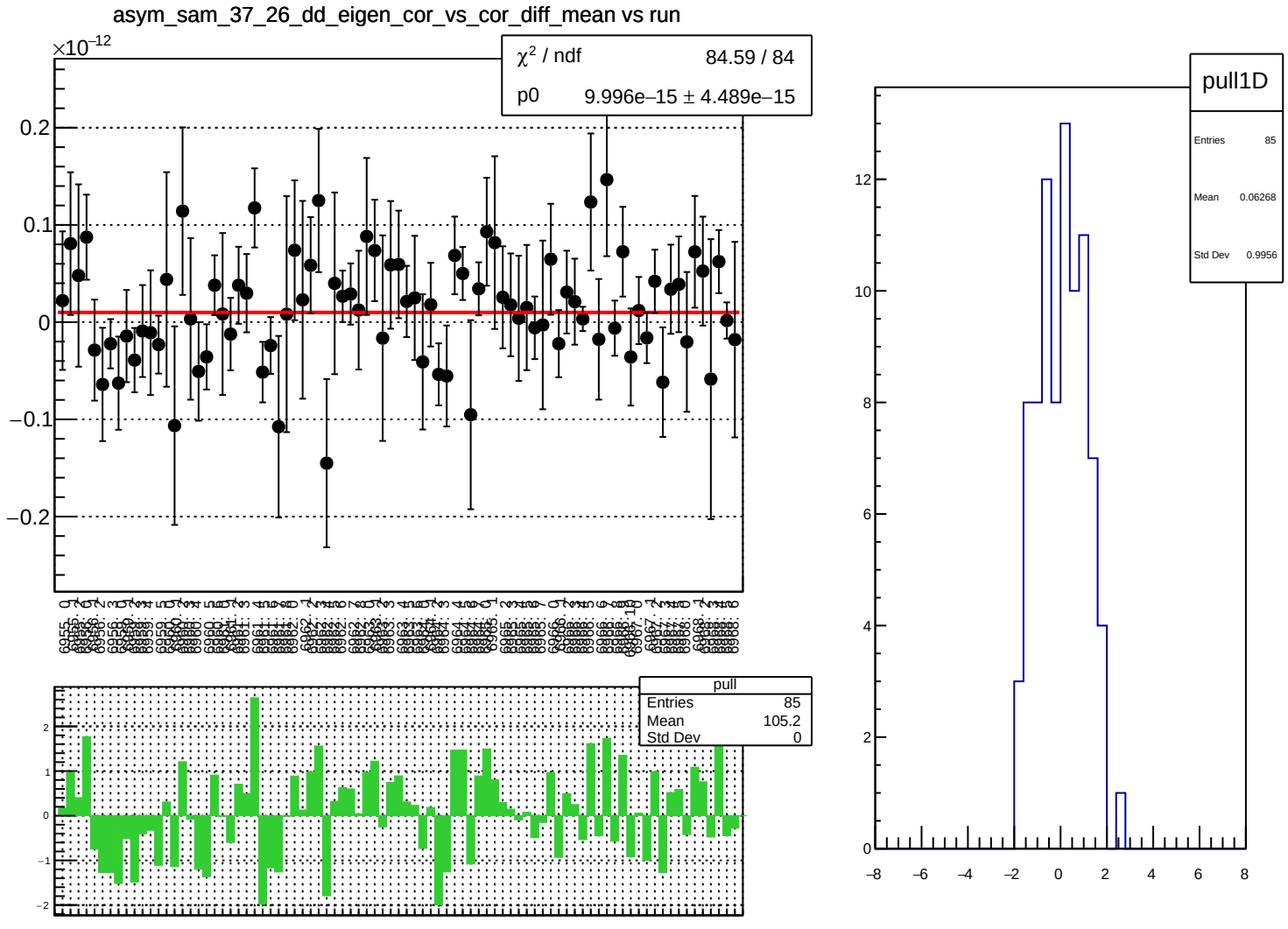

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.46 / 84
p0 −0.02269 ± 0.02183
pull
Entries 85
Mean 587.2
Std Dev 0
pull1D
Entries 85
Mean 0.003292
Std Dev 0.9909

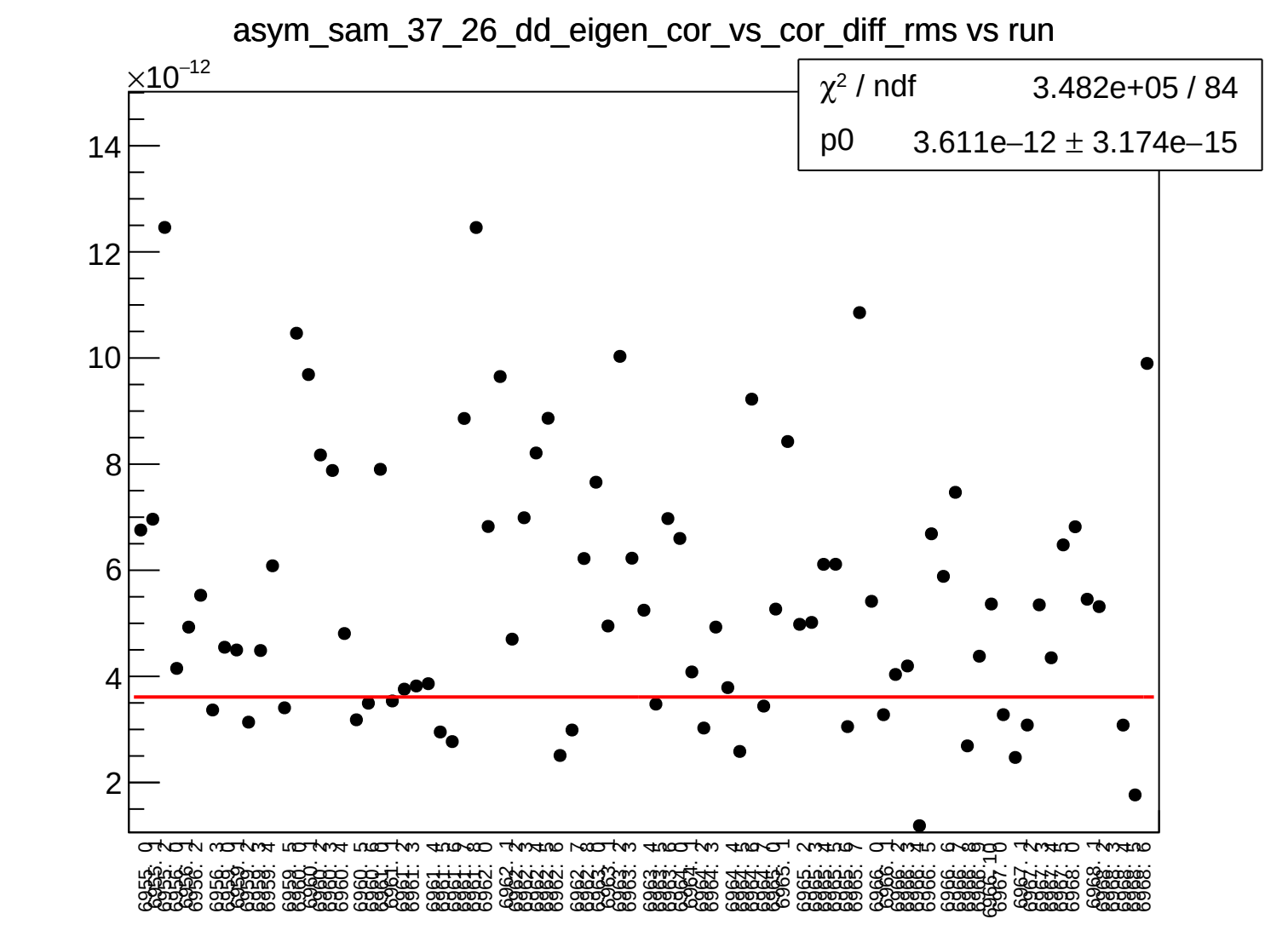

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.04e+04 / 84
p0 19.35 ± 0.01543
35
30
25
20
15

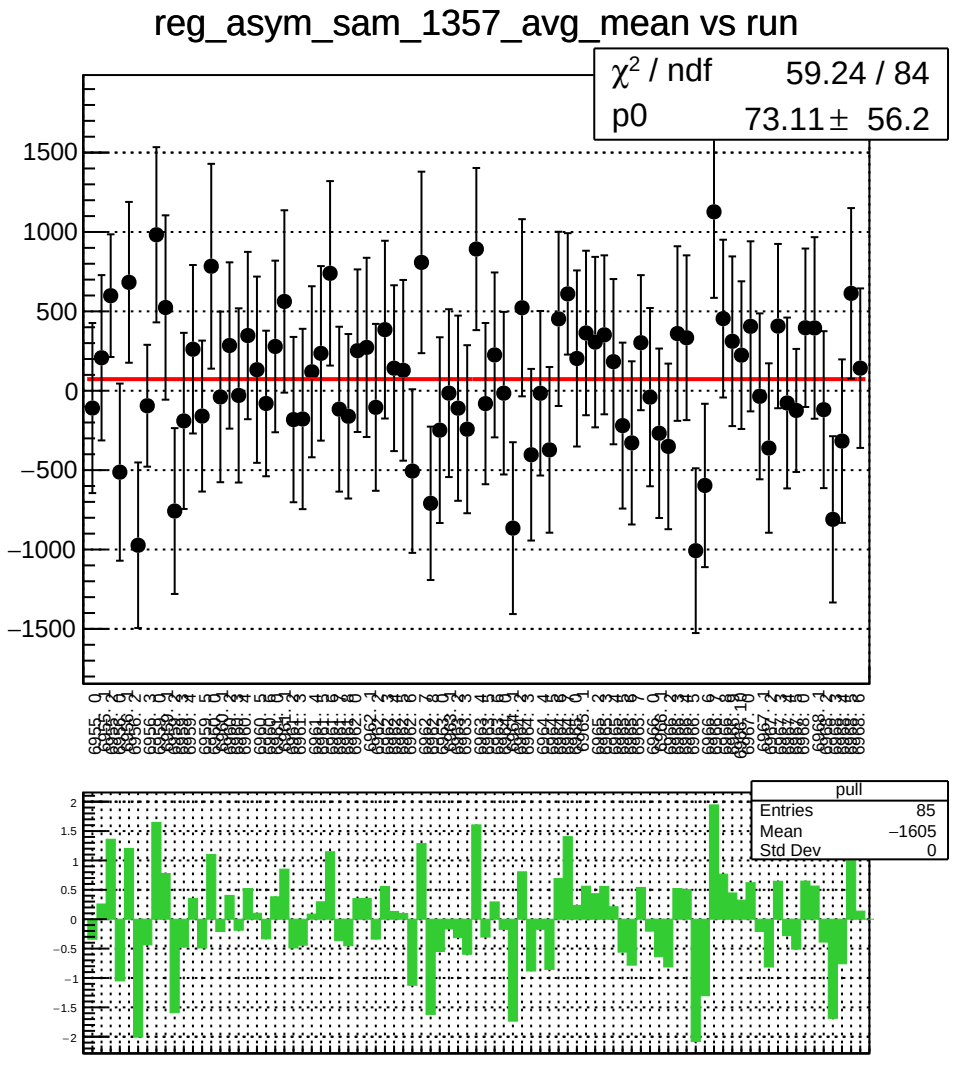

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.46 / 84
p0 −0.02269 ± 0.02183
pull
Entries 85
Mean 587.2
Std Dev 0

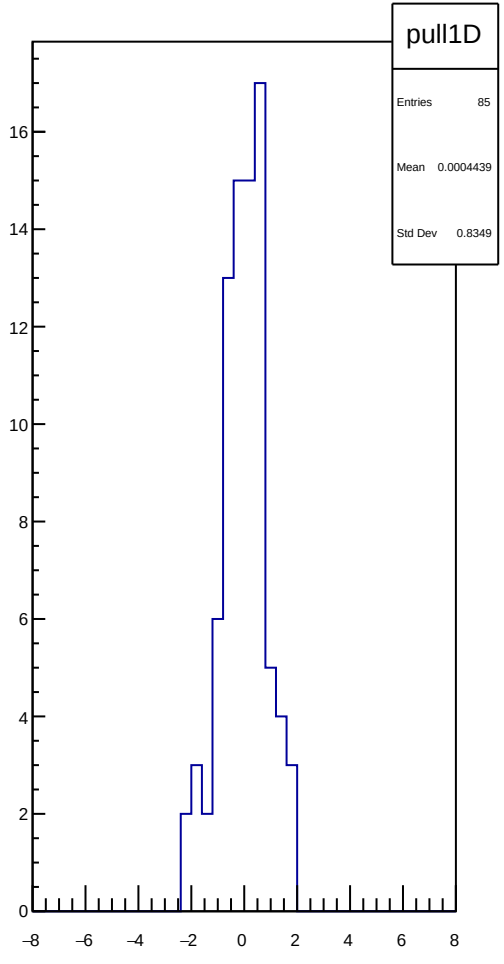

pull1D
Entries 85
Mean 0.003292
Std Dev 0.9909

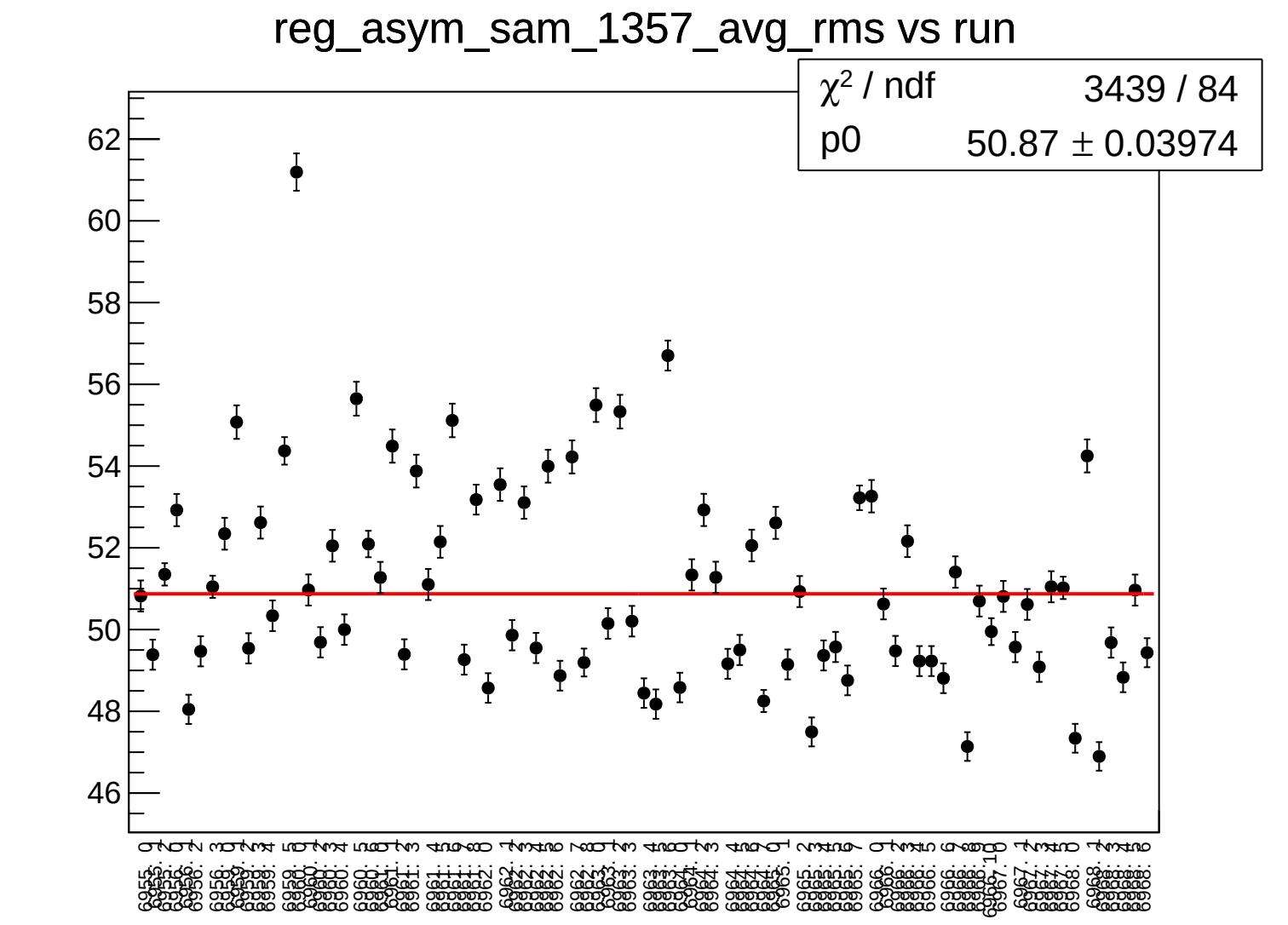

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.04e+04 / 84
p0 19.35 ± 0.01543
35
30
25
20
15

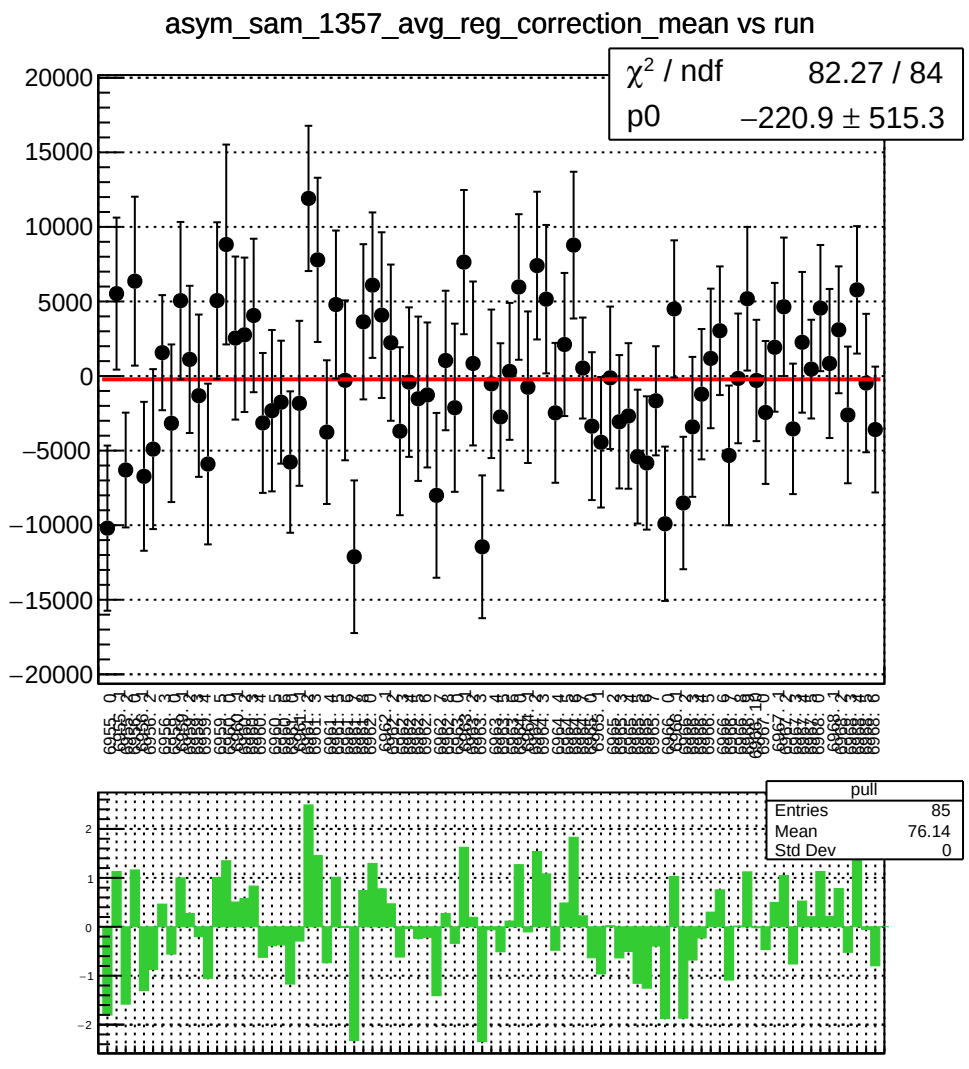

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.59 / 84
p0 9.996e−15 ± 4.489e−15
0.2
0.1
0
−0.1
−0.2
pull
Entries 85
Mean 105.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.06268
Std Dev 0.9956
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

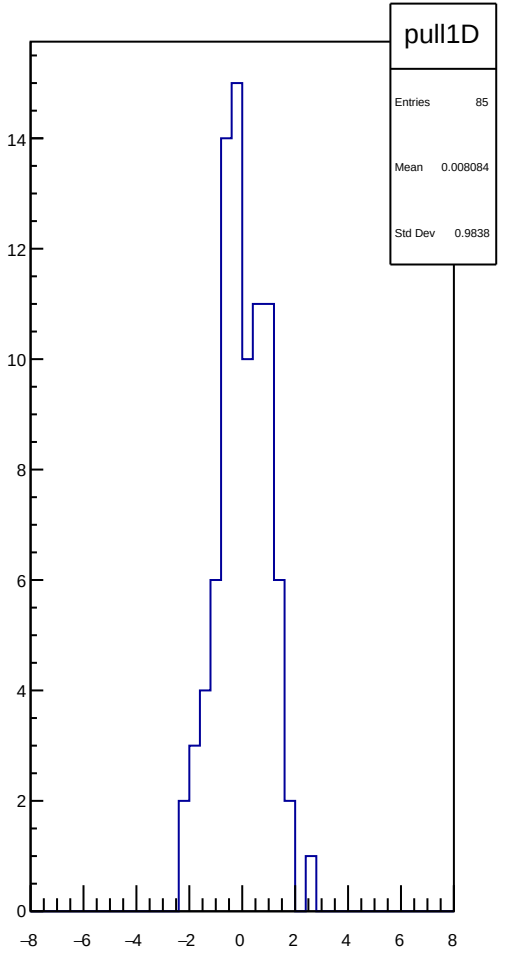

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.482e+05 / 84
p0 3.611e−12 ± 3.174e−15
14
12
10
8
6
4
2

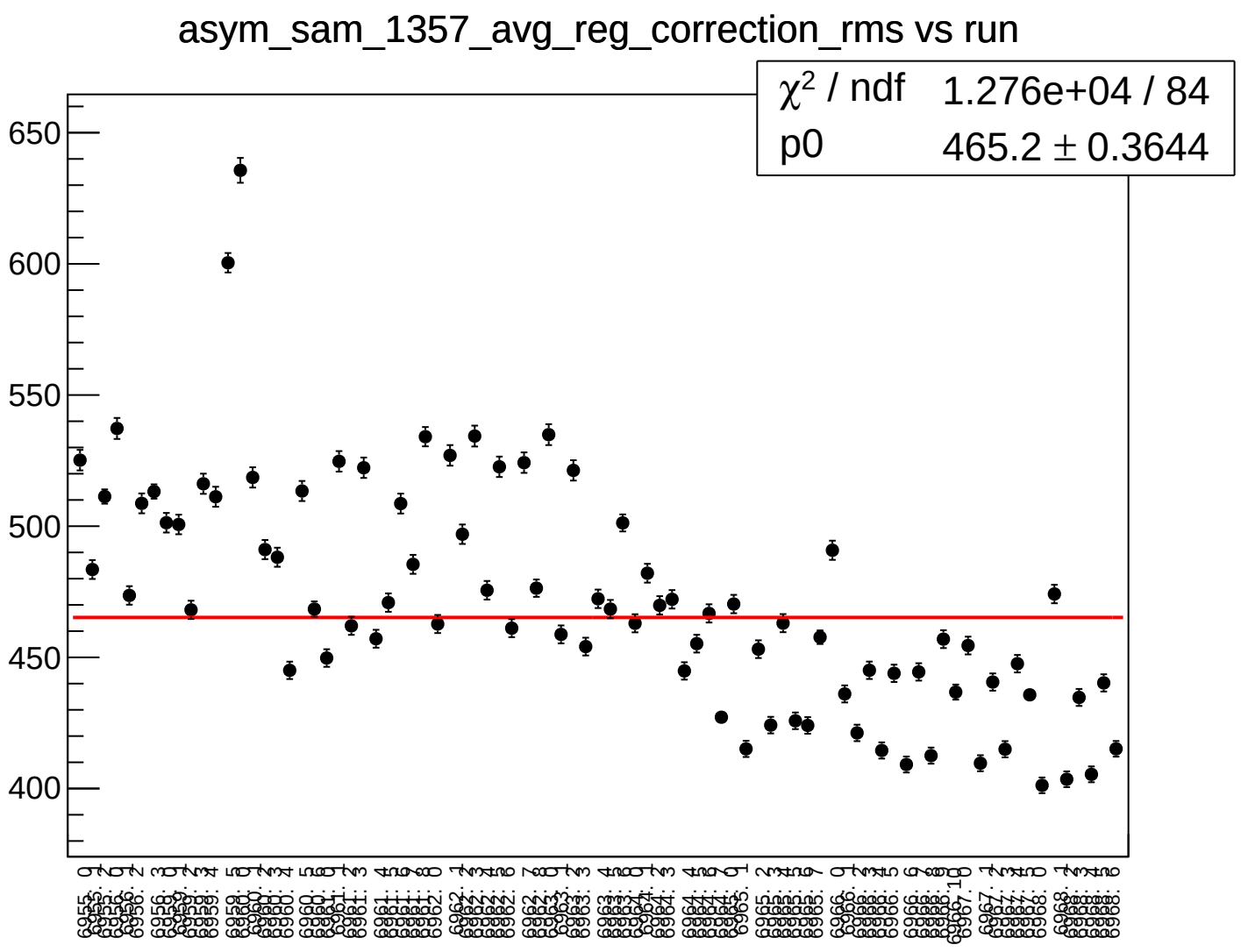

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 59.24 / 84
p0 73.11 ± 56.2
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean −1605
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

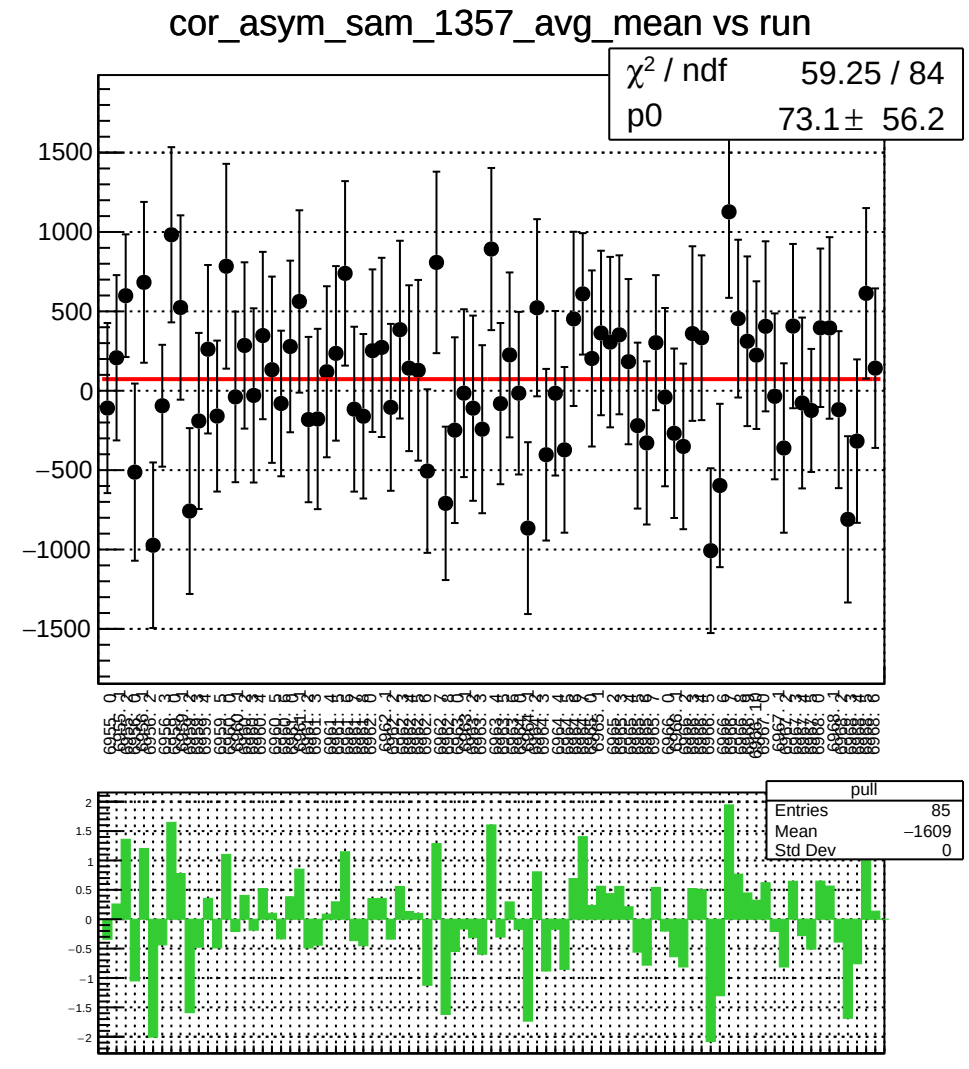

pull1D
Entries 85
Mean 0.0004439
Std Dev 0.8349
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

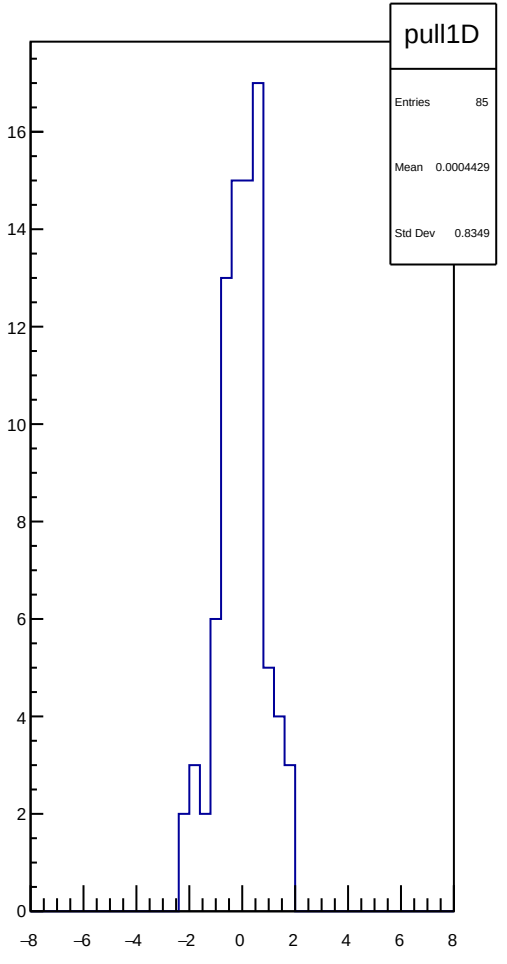

reg_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 3439 / 84
p0 50.87 ± 0.03974
62
60
58
56
54
52
50
48
46

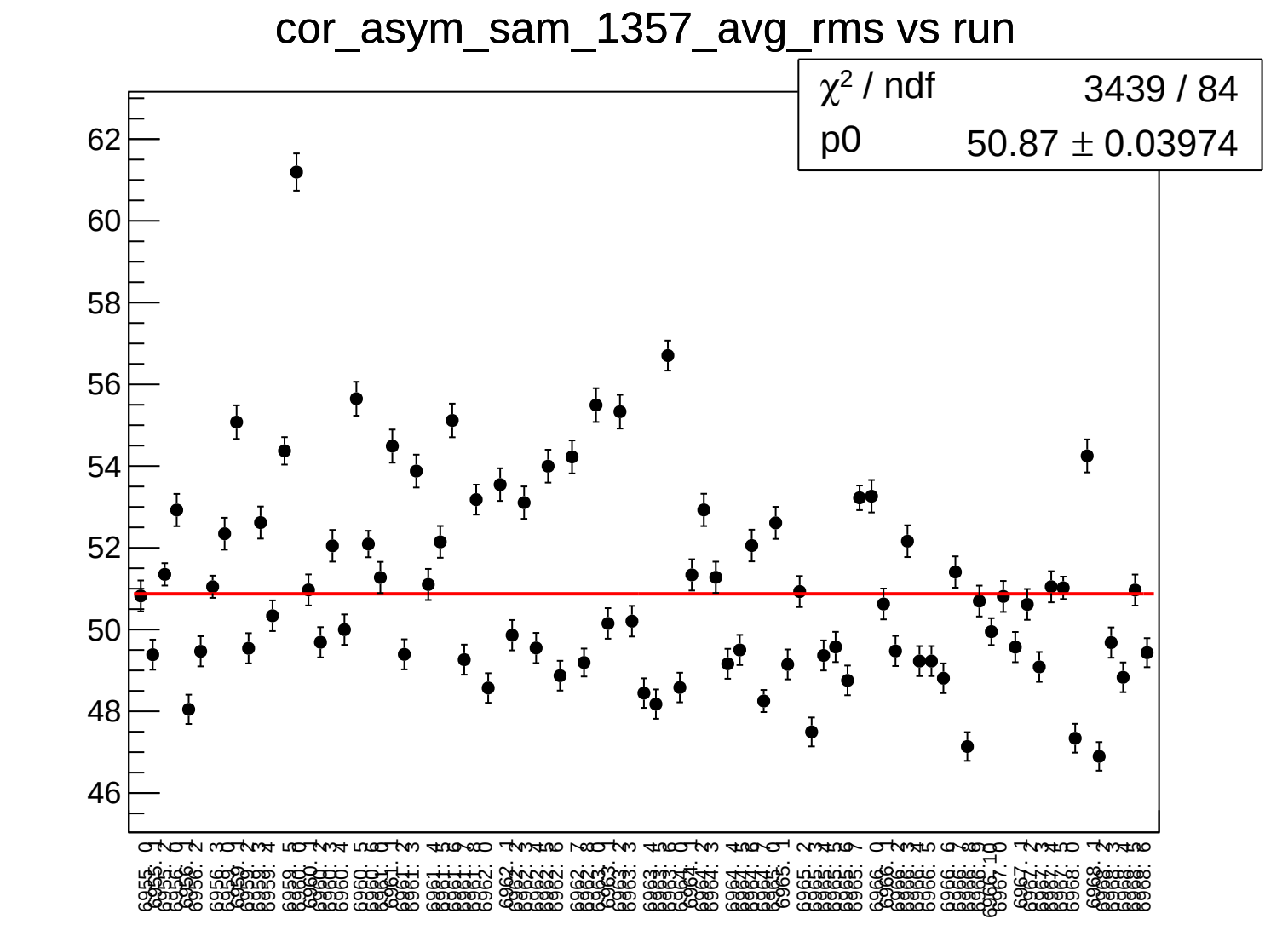

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 82.27 / 84
p0 −220.9 ± 515.3
pull
Entries 85
Mean 76.14
Std Dev 0

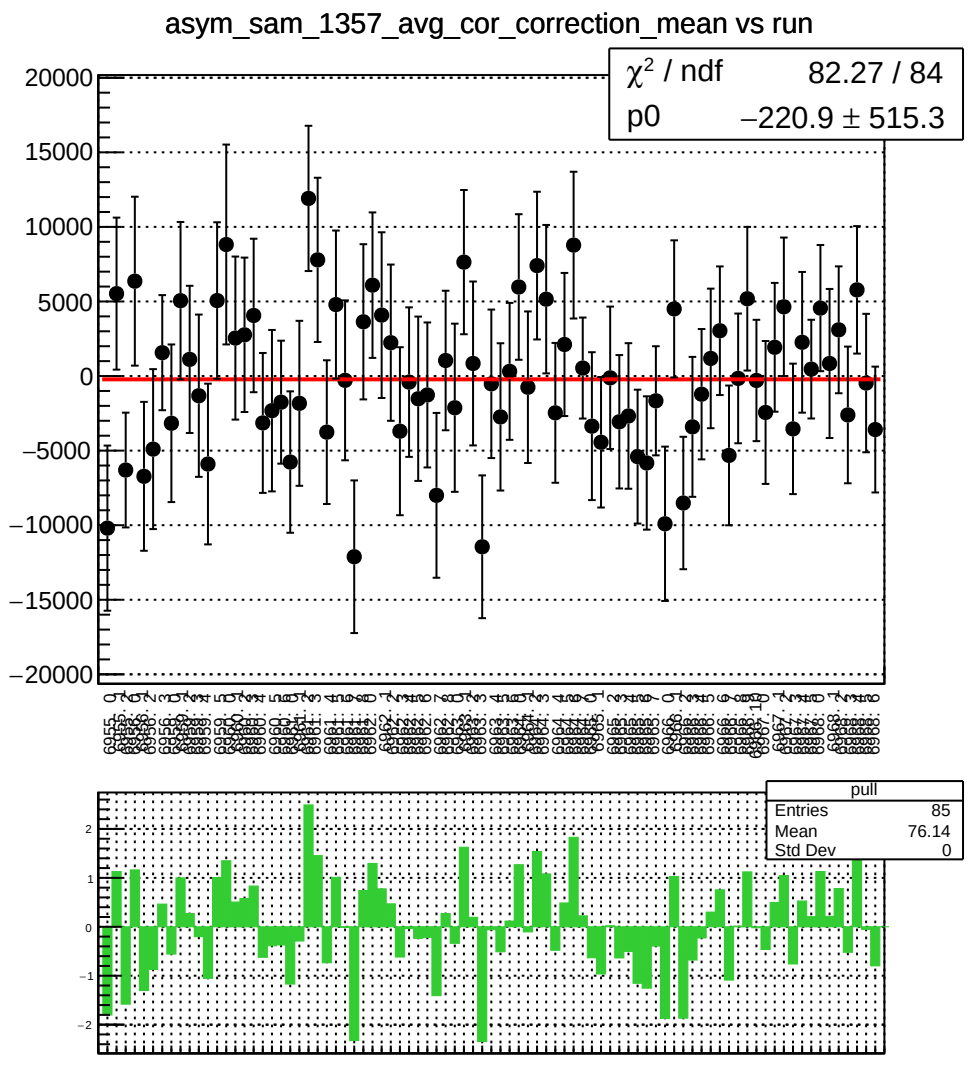

pull1D
Entries 85
Mean 0.008084
Std Dev 0.9838

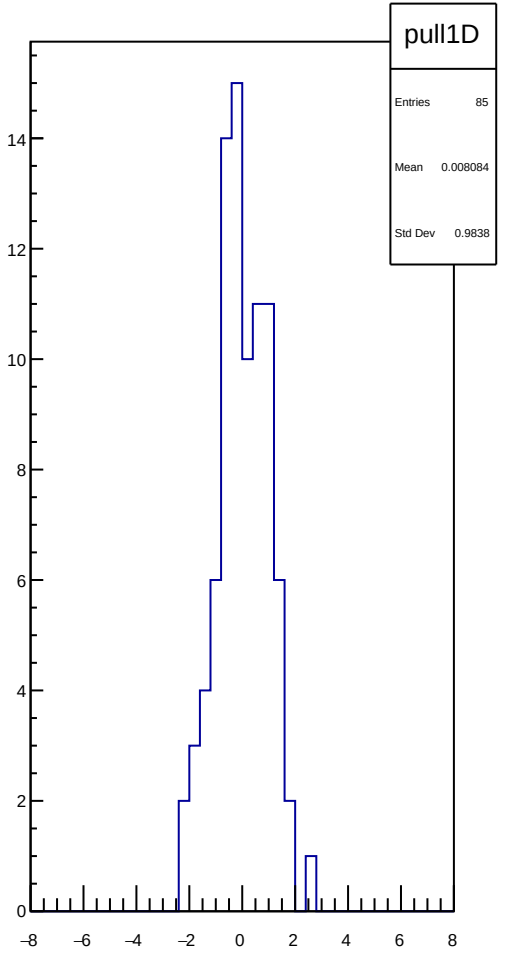

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.276e+04 / 84
p0 465.2 ± 0.3644
650
600
550
500
450
400

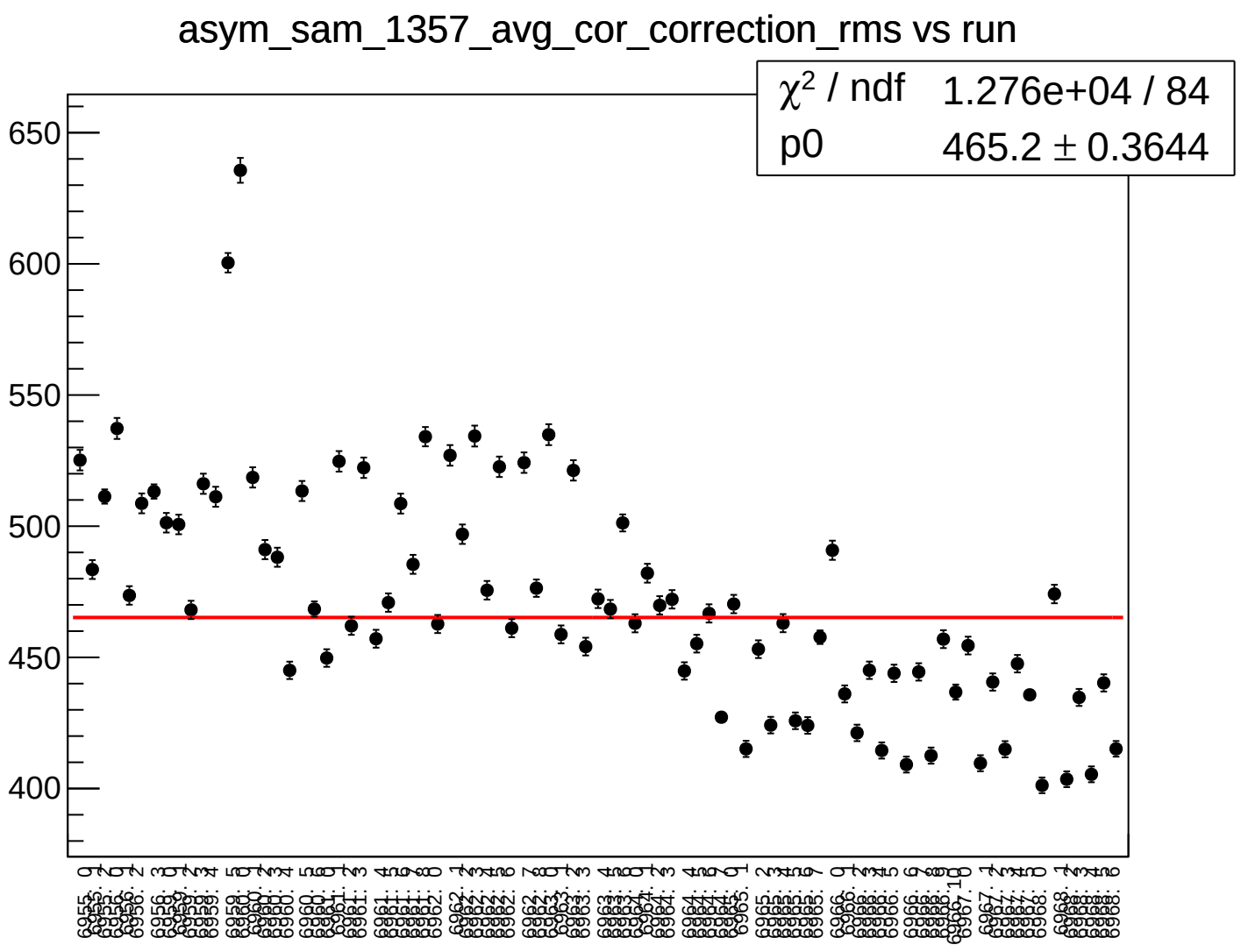

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 59.25 / 84
p0 73.1 ± 56.2
pull
Entries 85
Mean −1609
Std Dev 0

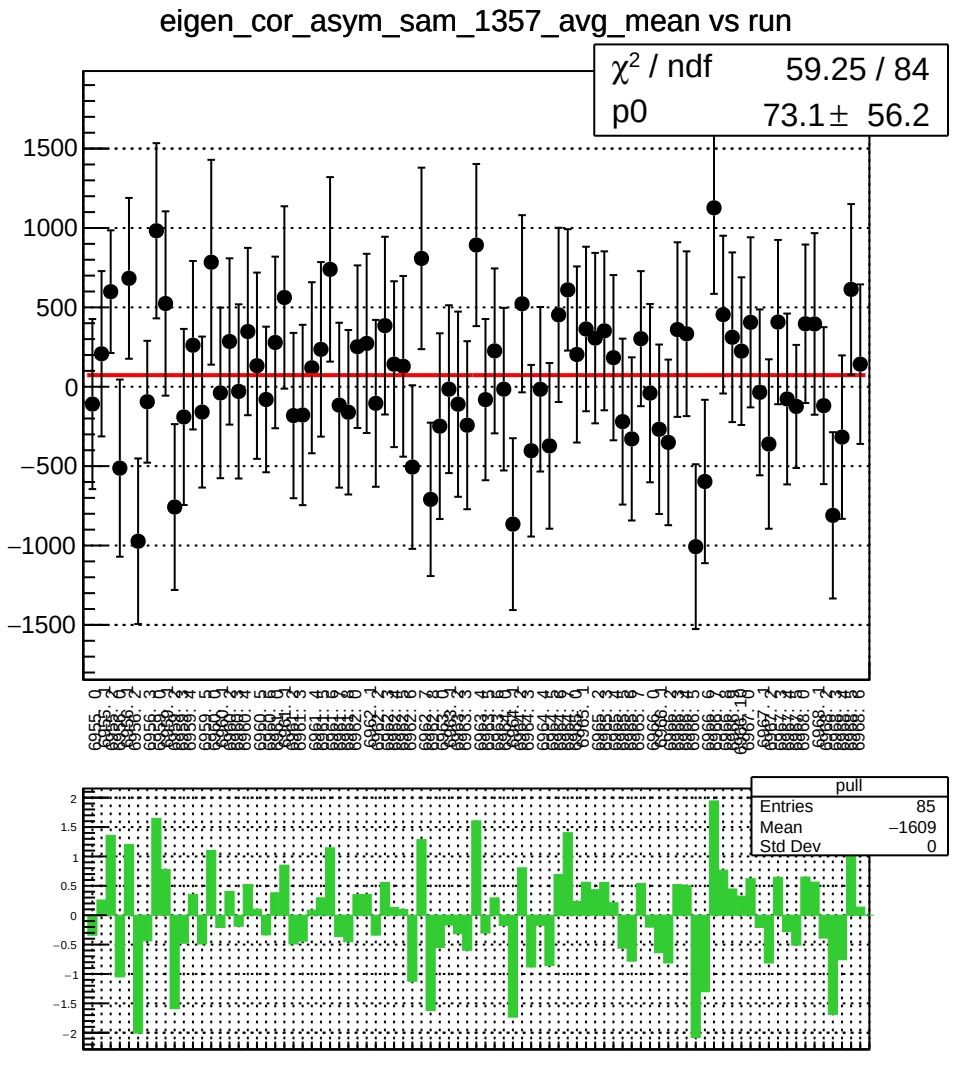

pull1D
Entries 85
Mean 0.0004429
Std Dev 0.8349

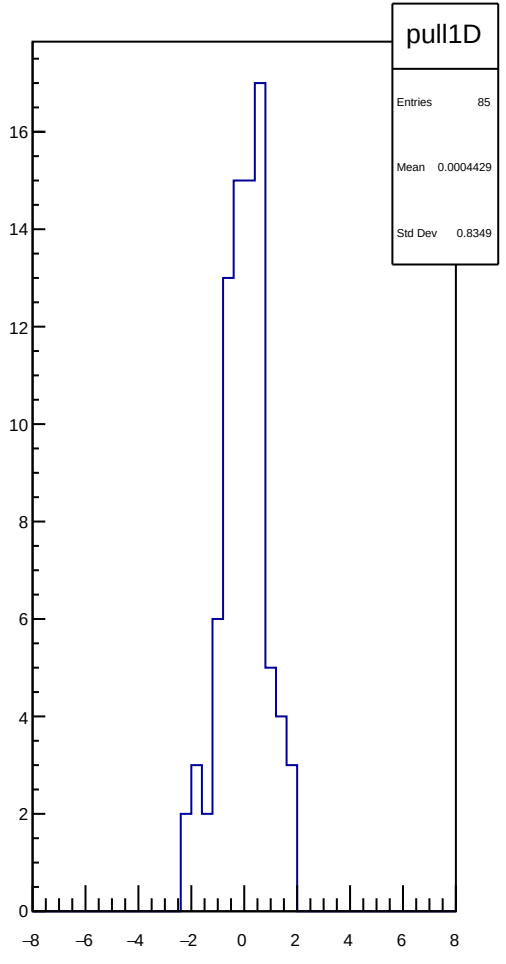

cor_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 3439 / 84
p0 50.87 ± 0.03974
62
60
58
56
54
52
50
48
46

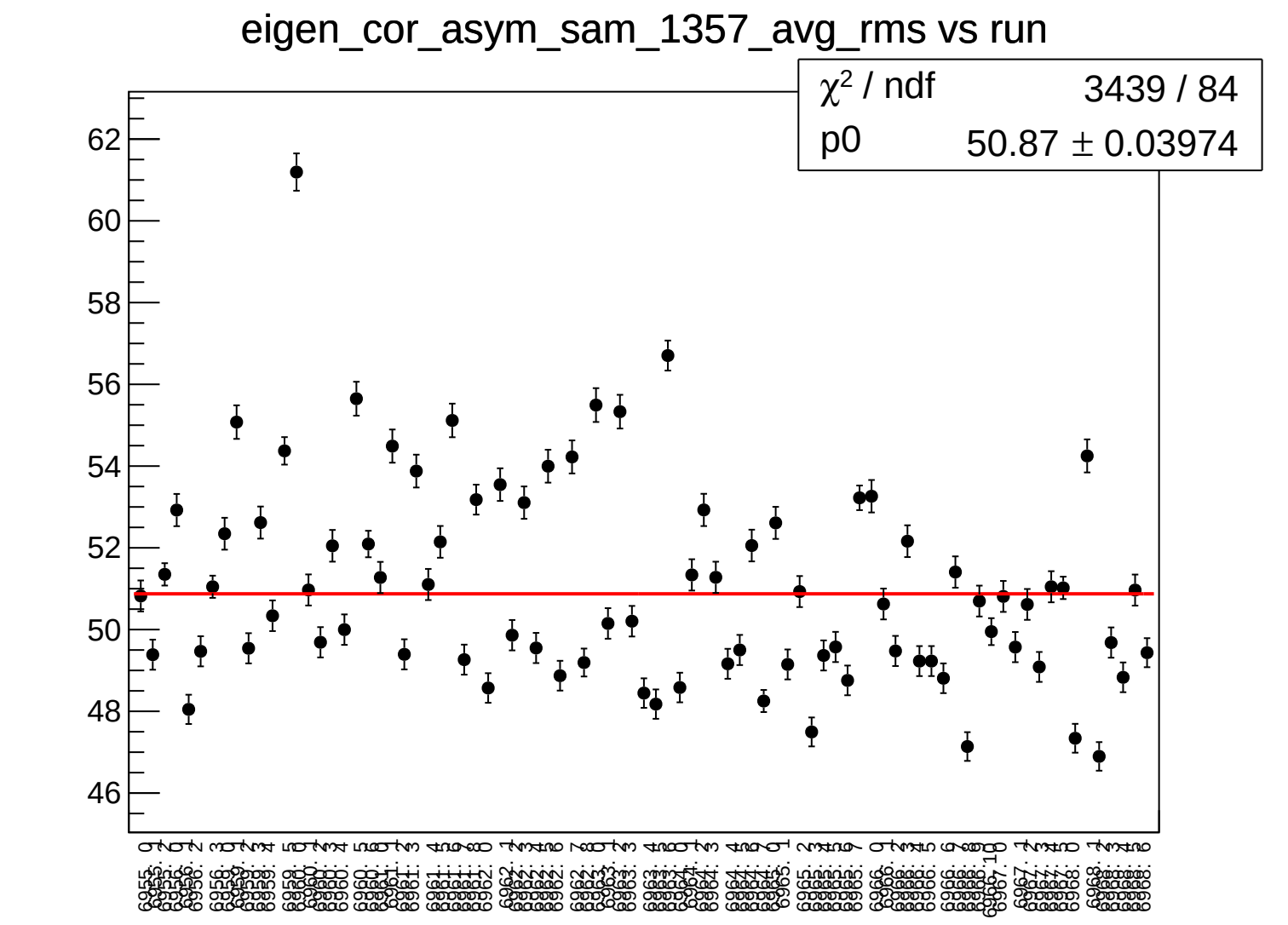

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 82.27 / 84
p0 −220.9 ± 515.3
pull
Entries 85
Mean 76.14
Std Dev 0

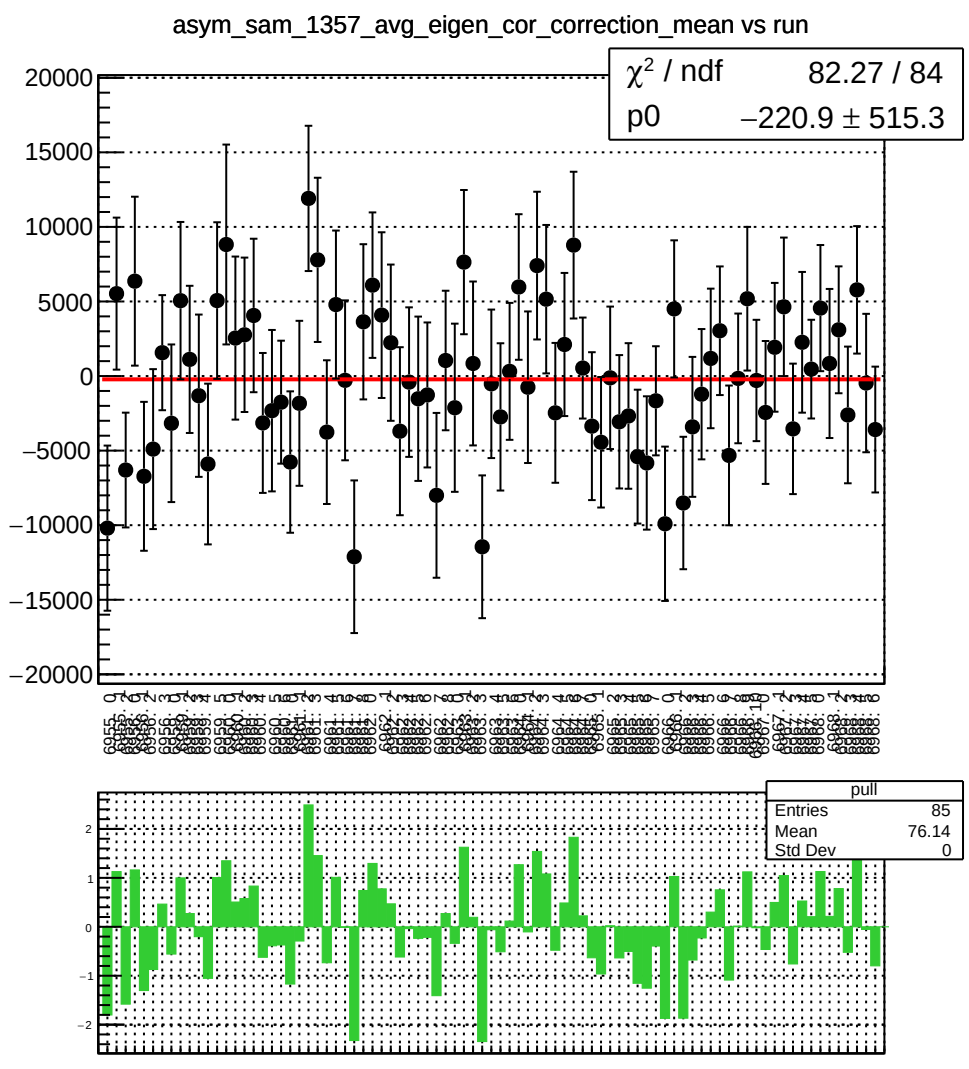

pull1D
Entries 85
Mean 0.008084
Std Dev 0.9838

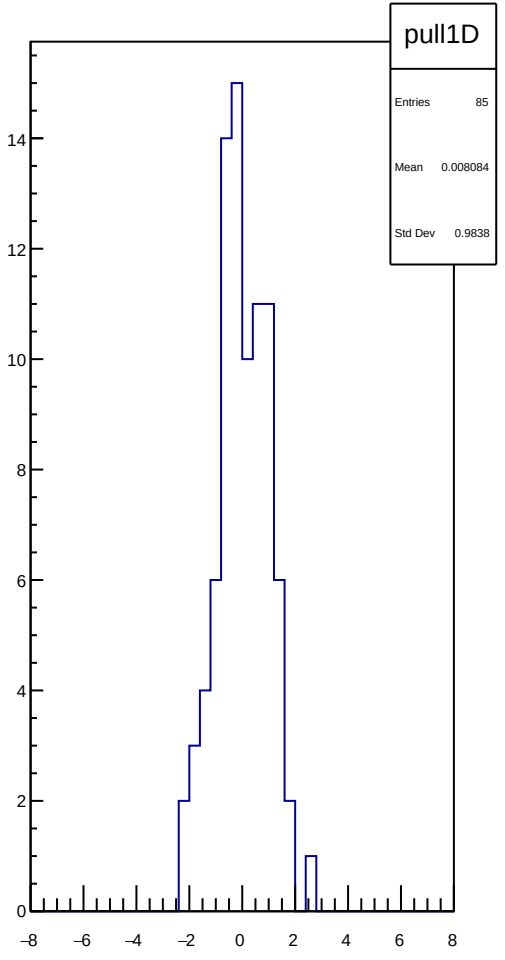

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.276e+04 / 84
p0 465.2 ± 0.3644
650
600
550
500
450
400

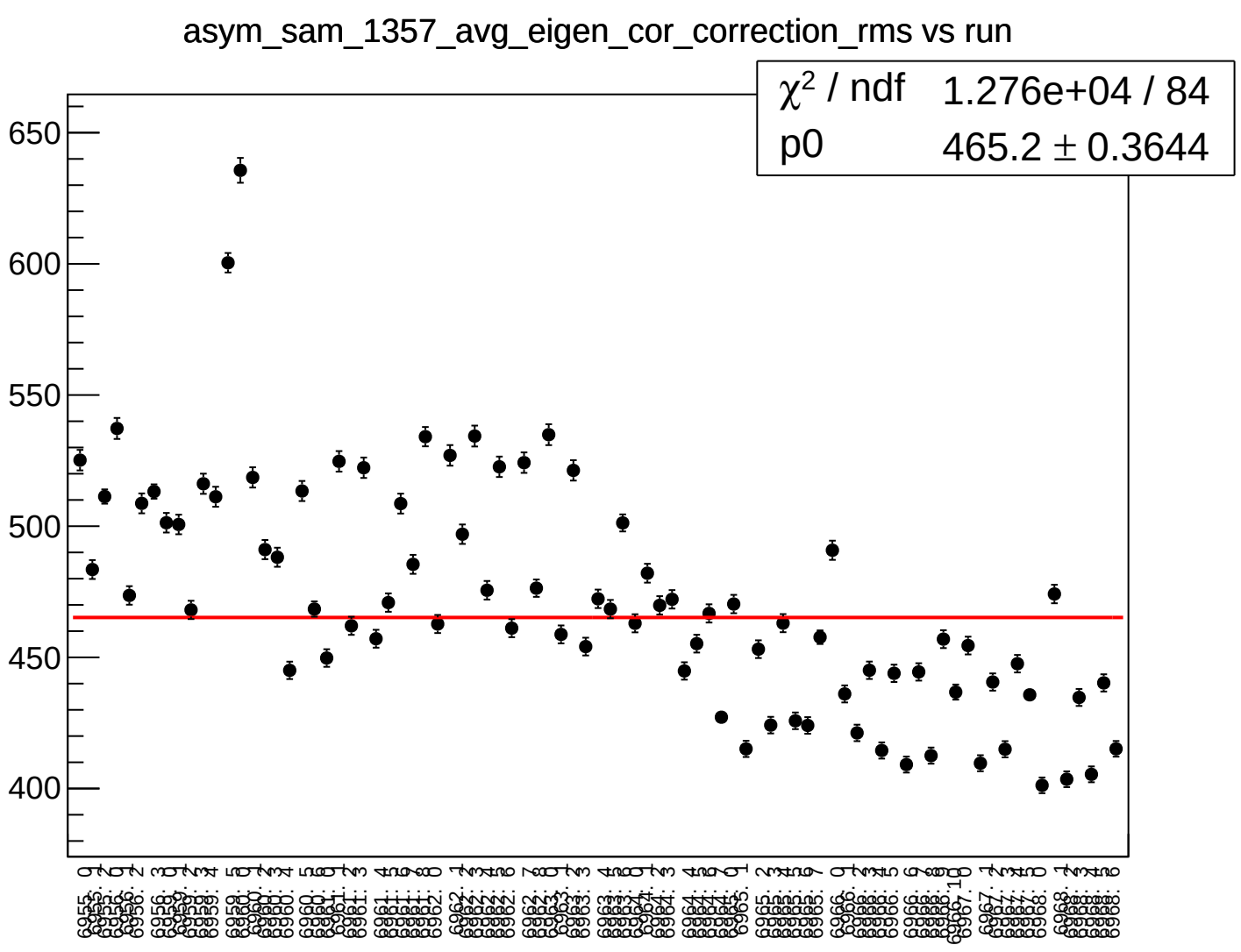

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 59.25 / 84
p0 73.1 ± 56.2
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean −1609
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

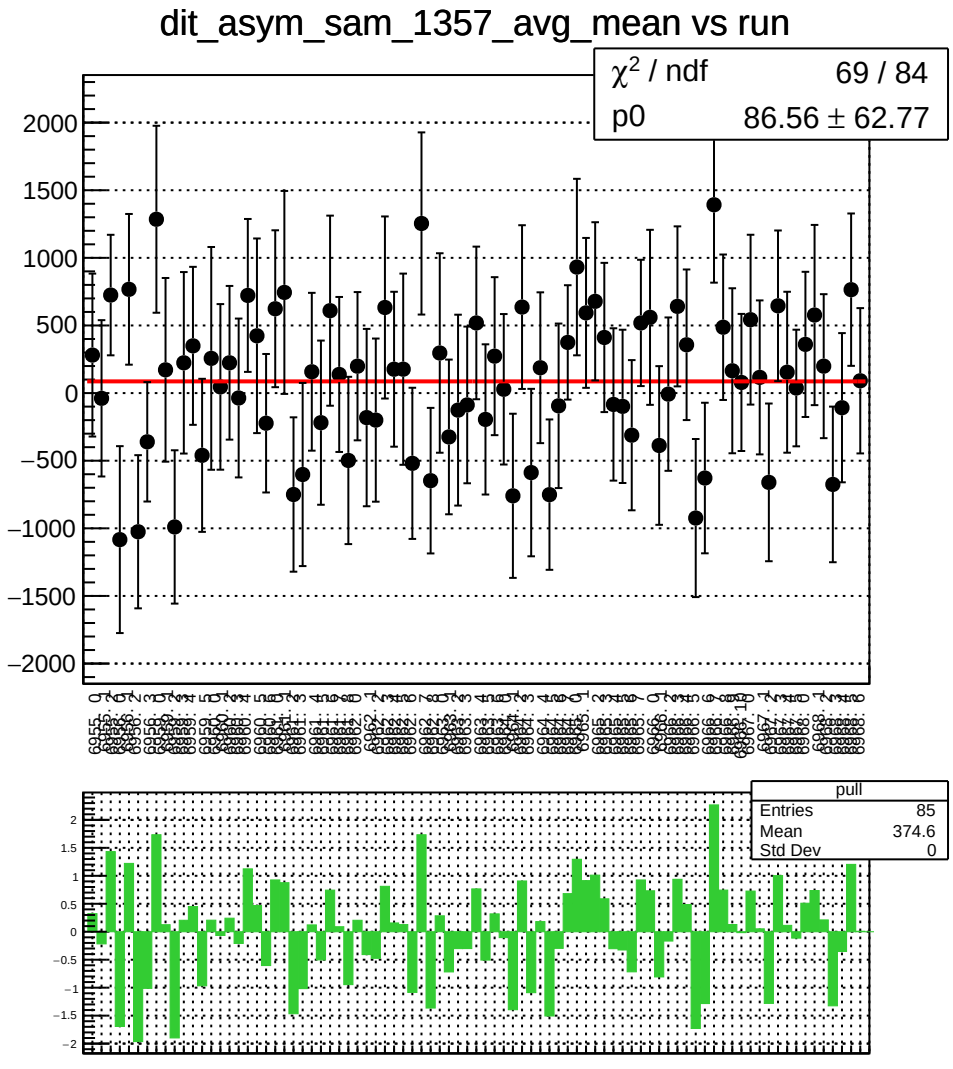

pull1D
Entries 85
Mean 0.0004429
Std Dev 0.8349
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

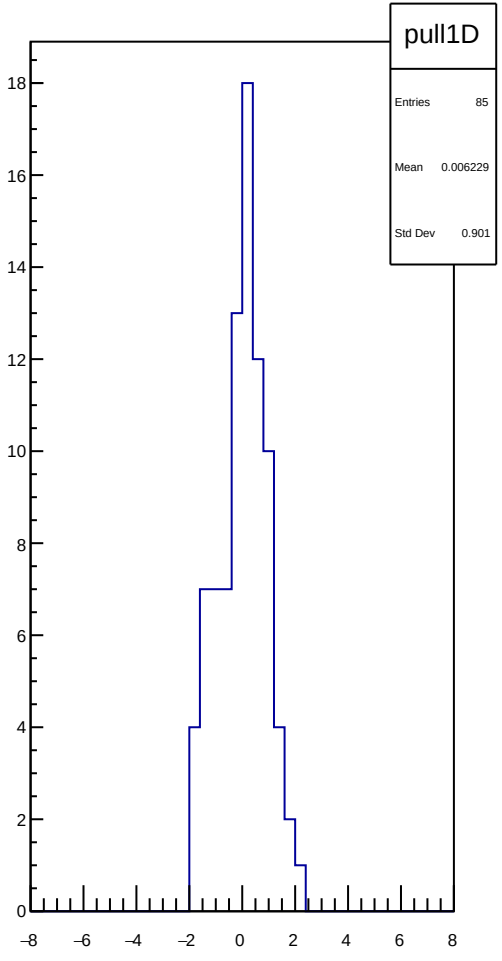

eigen_cor_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 3439 / 84
p0 50.87 ± 0.03974
62
60
58
56
54
52
50
48
46

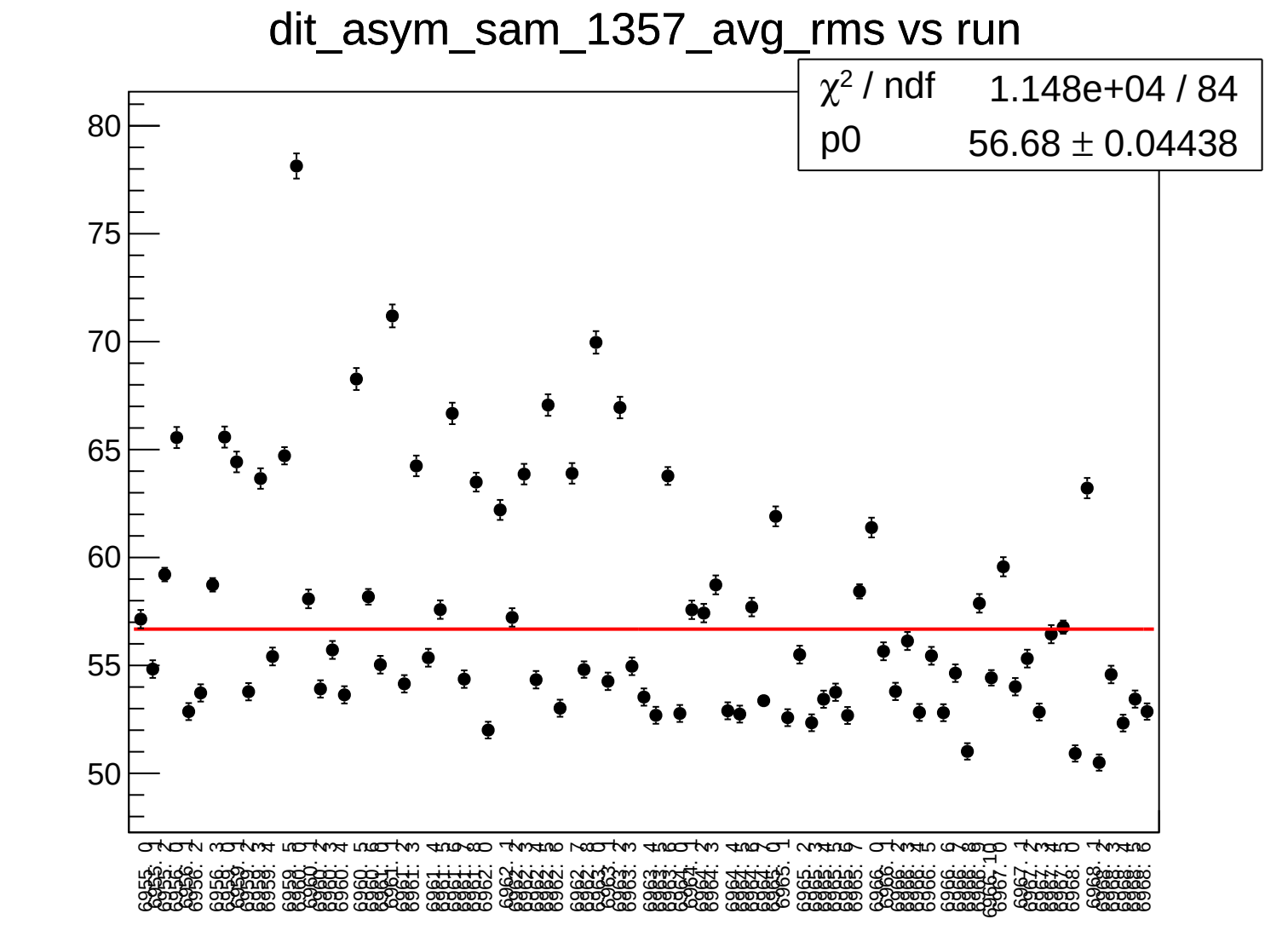

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.27 / 84
p0 −220.9 ± 515.3
pull
Entries 85
Mean 76.14
Std Dev 0

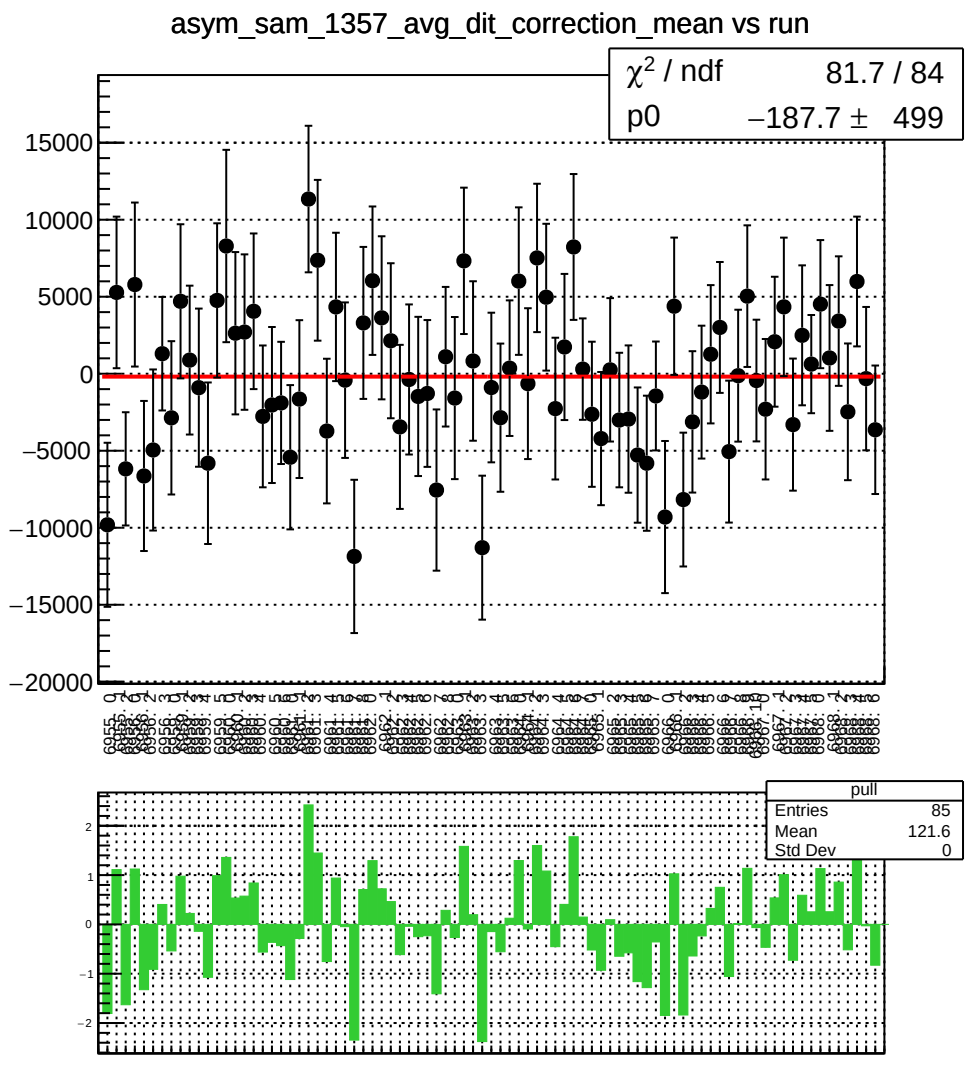

pull1D
Entries 85
Mean 0.008084
Std Dev 0.9838

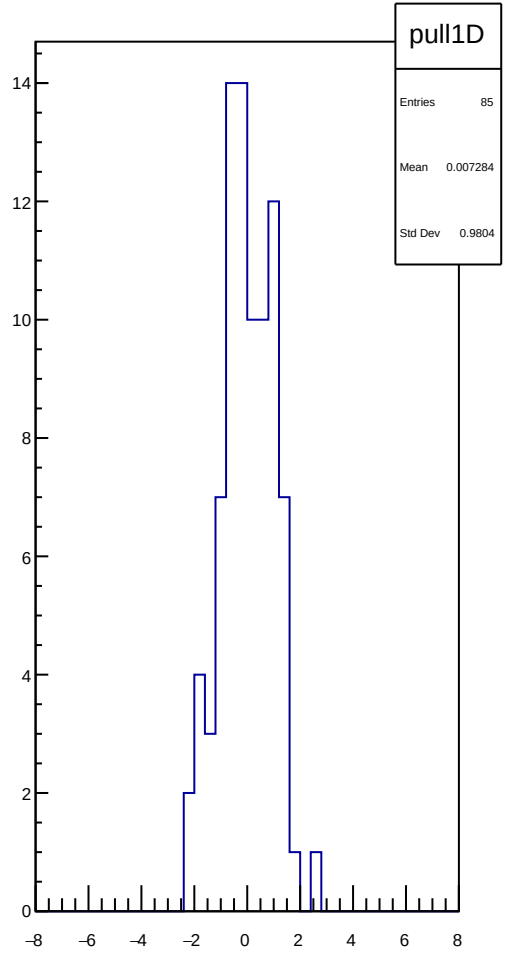

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.276e+04 / 84
p0 465.2 ± 0.3644
650
600
550
500
450
400

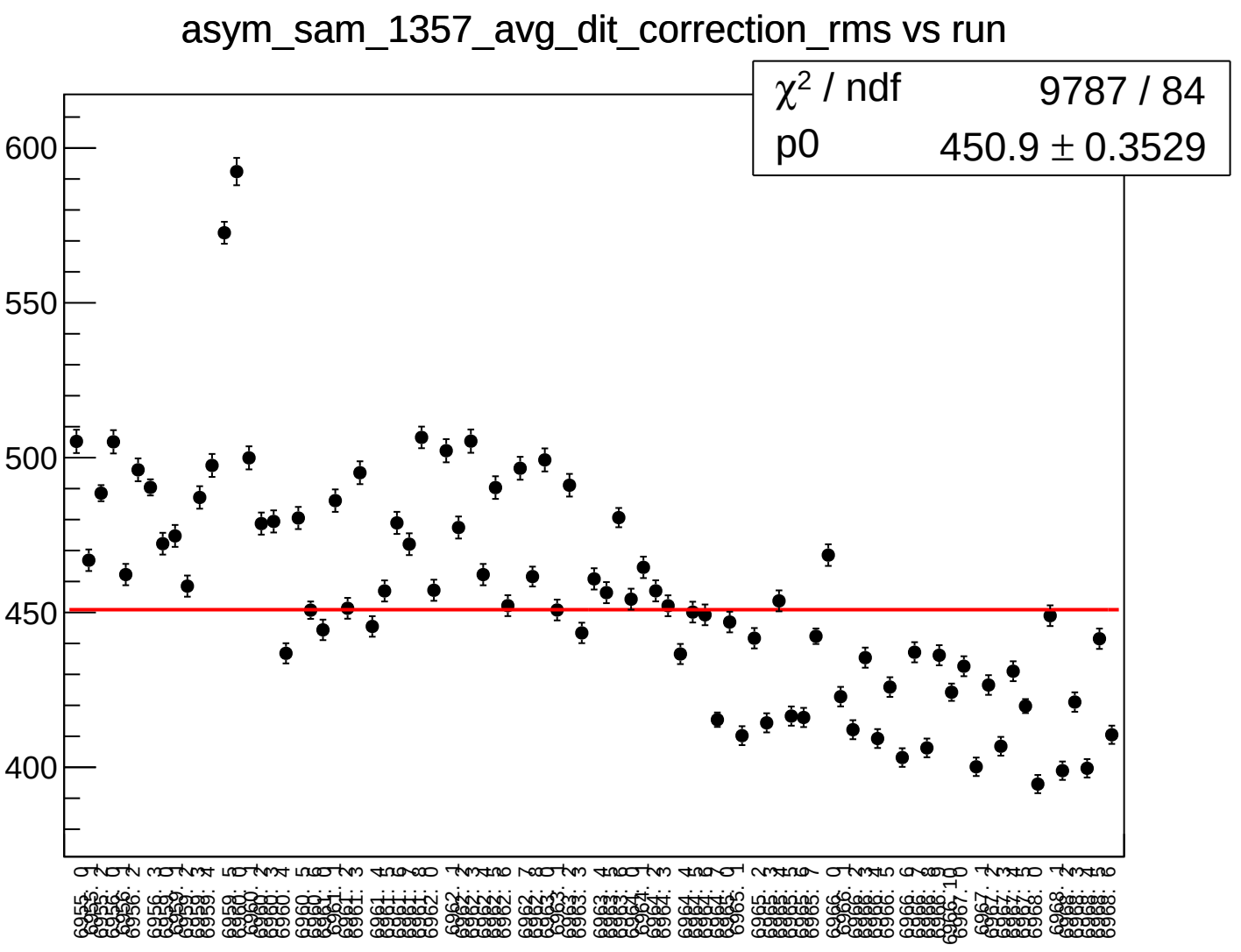

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 69 / 84
p0 86.56 ± 62.77
pull
Entries 85
Mean 374.6
Std Dev 0

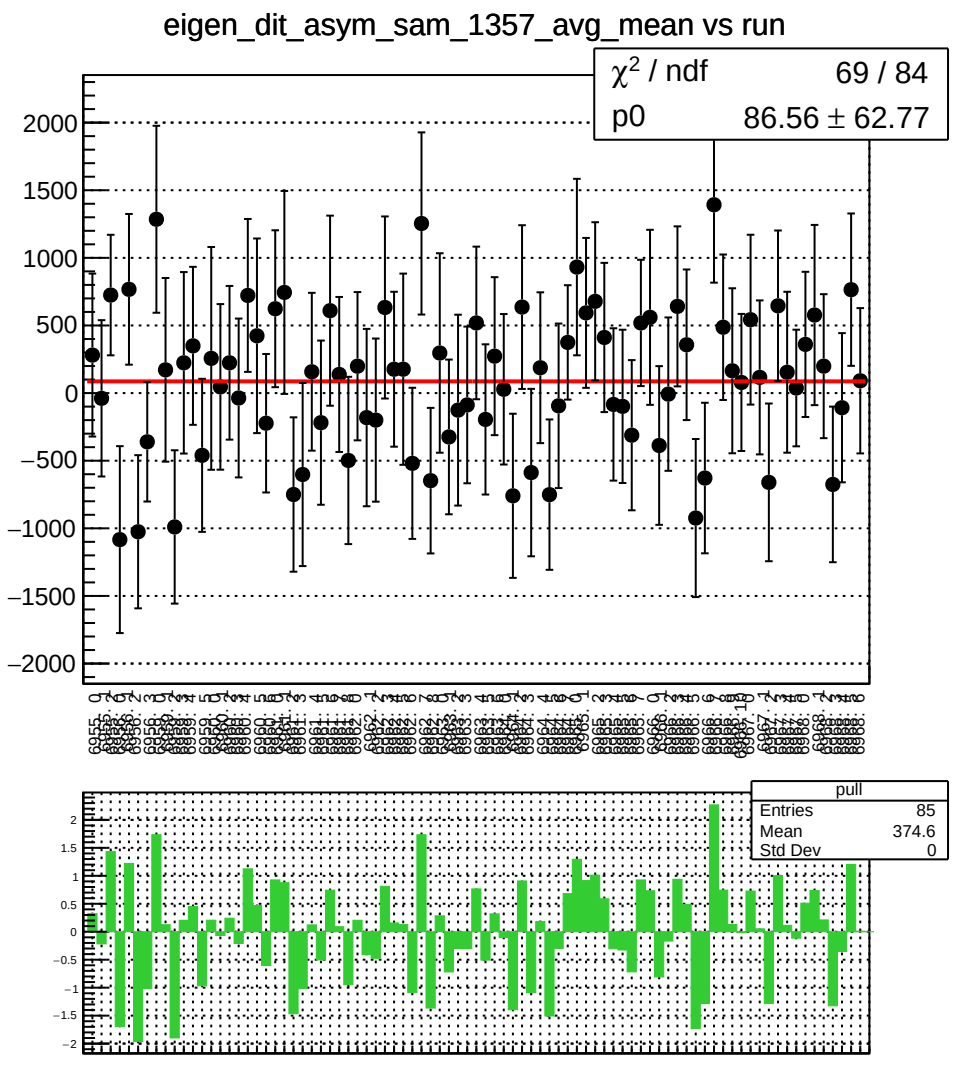

pull1D
Entries 85
Mean 0.006229
Std Dev 0.901

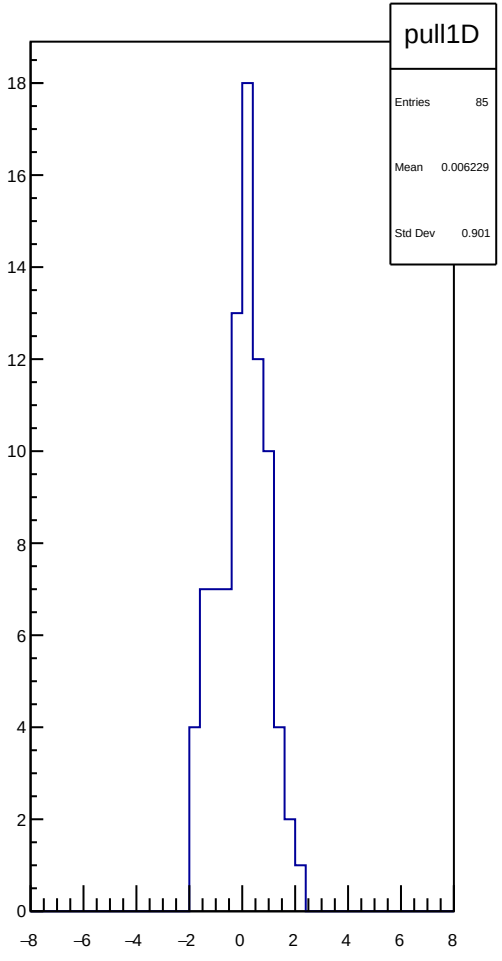

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.148e+04 / 84
p0 56.68 ± 0.04438
80
75
70
65
60
55
50

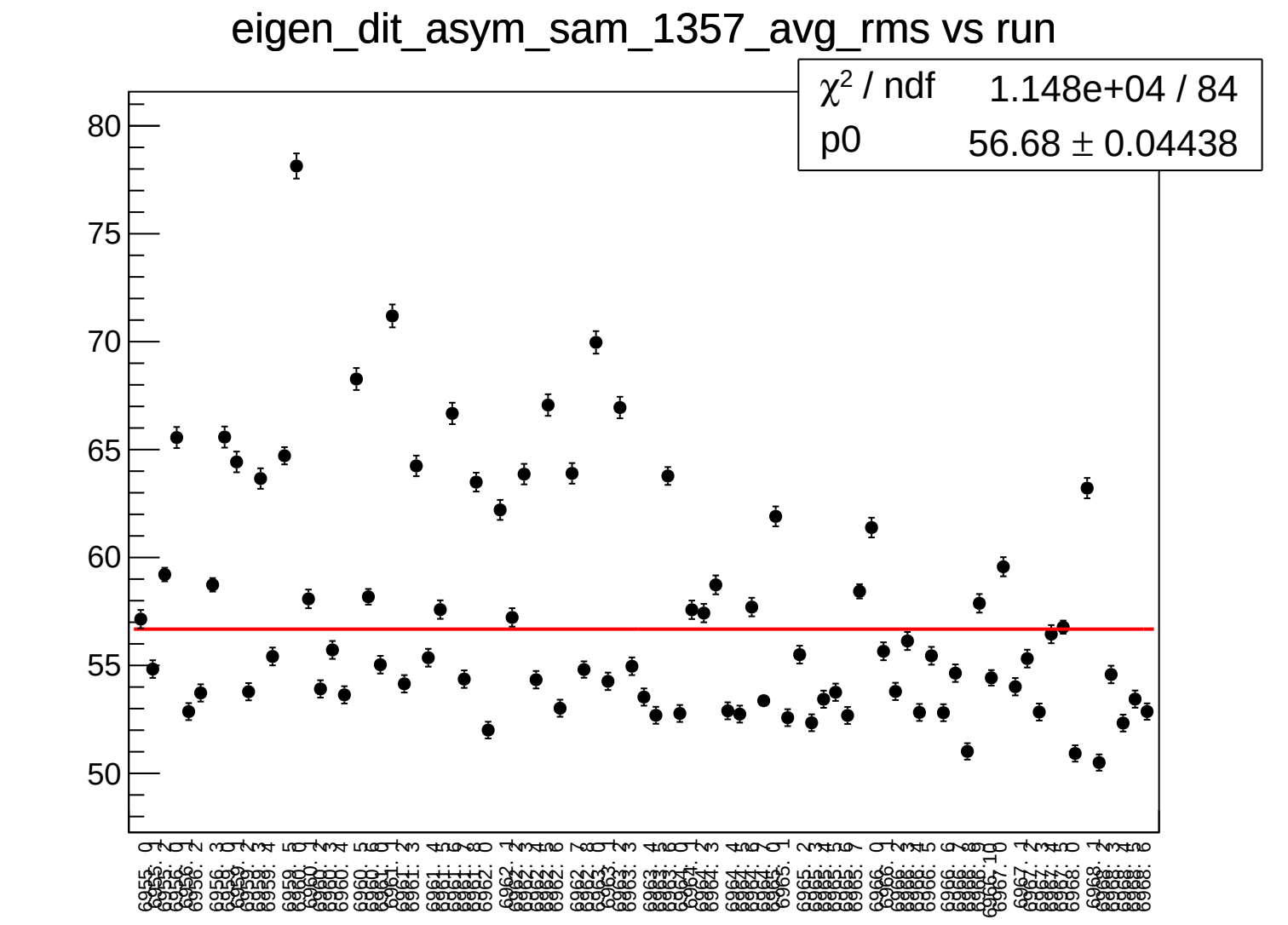

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 81.7 / 84
p0 −187.7 ± 499
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 121.6
Std Dev 0
2
1
0
−1
−2

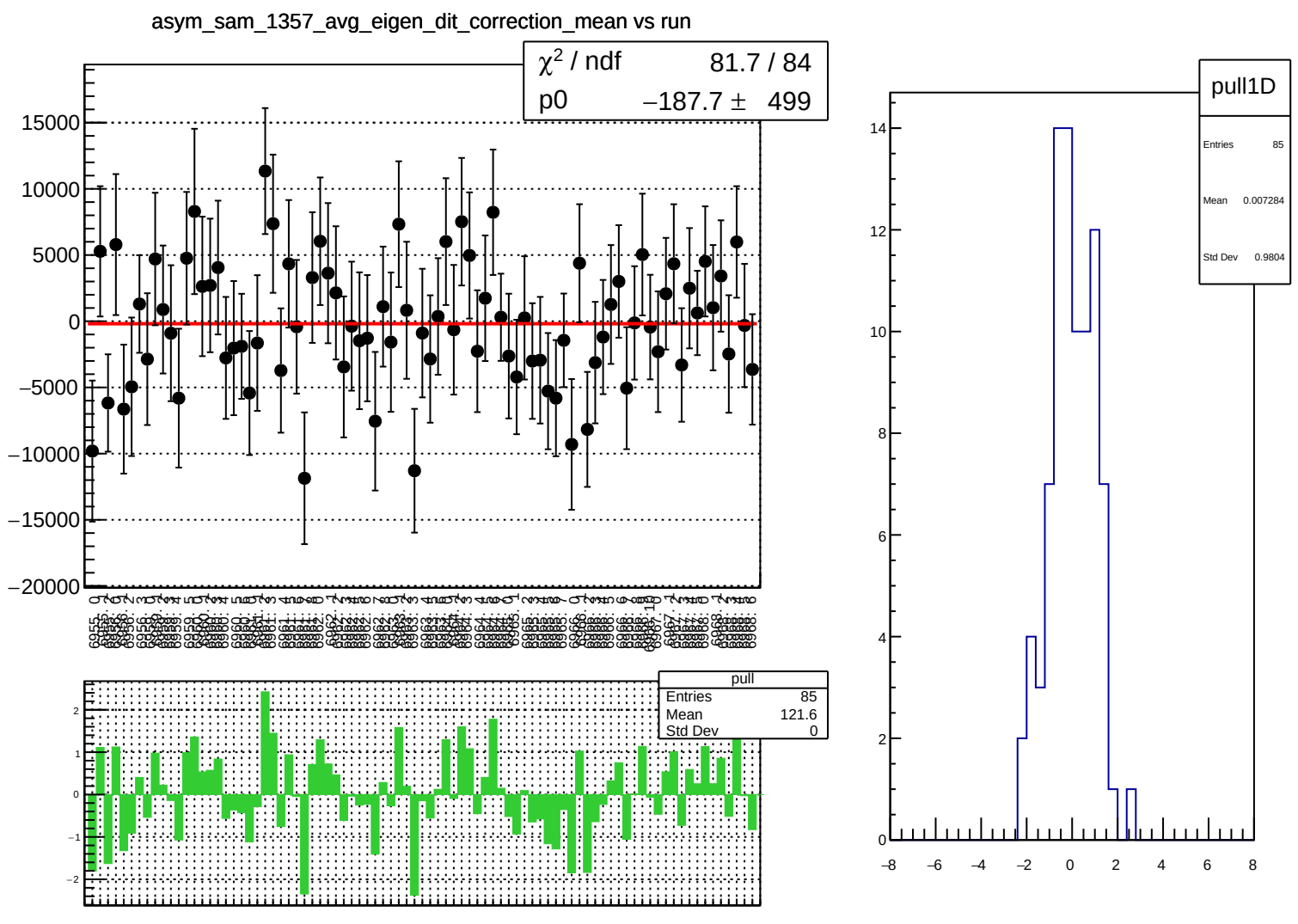

pull1D
Entries 85
Mean 0.007284
Std Dev 0.9804
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

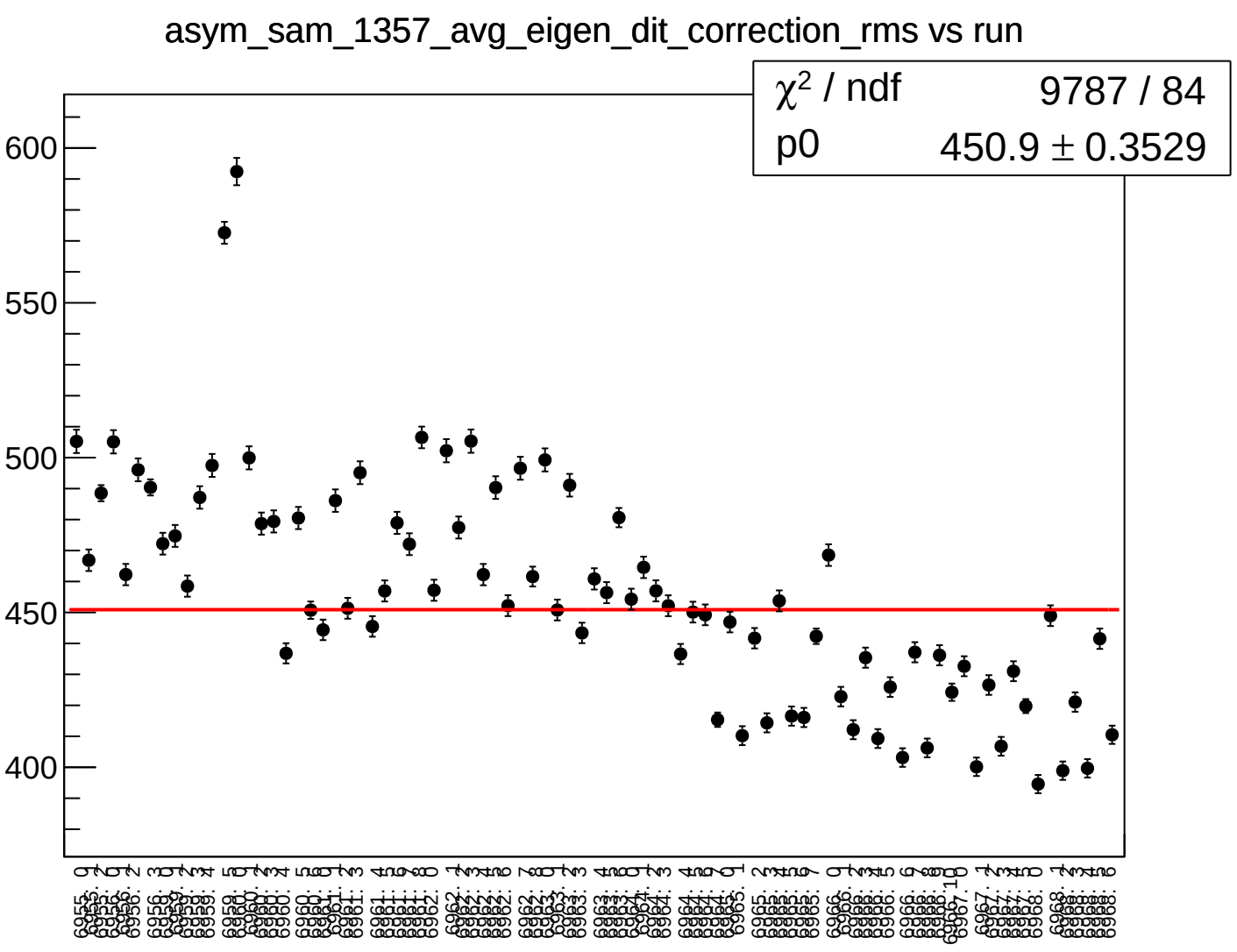

asym_sam_1357_avg_dit_correction_rms vs run
$\chi^2$ / ndf 9787 / 84
p0 450.9 ± 0.3529
600
550
500
450
400

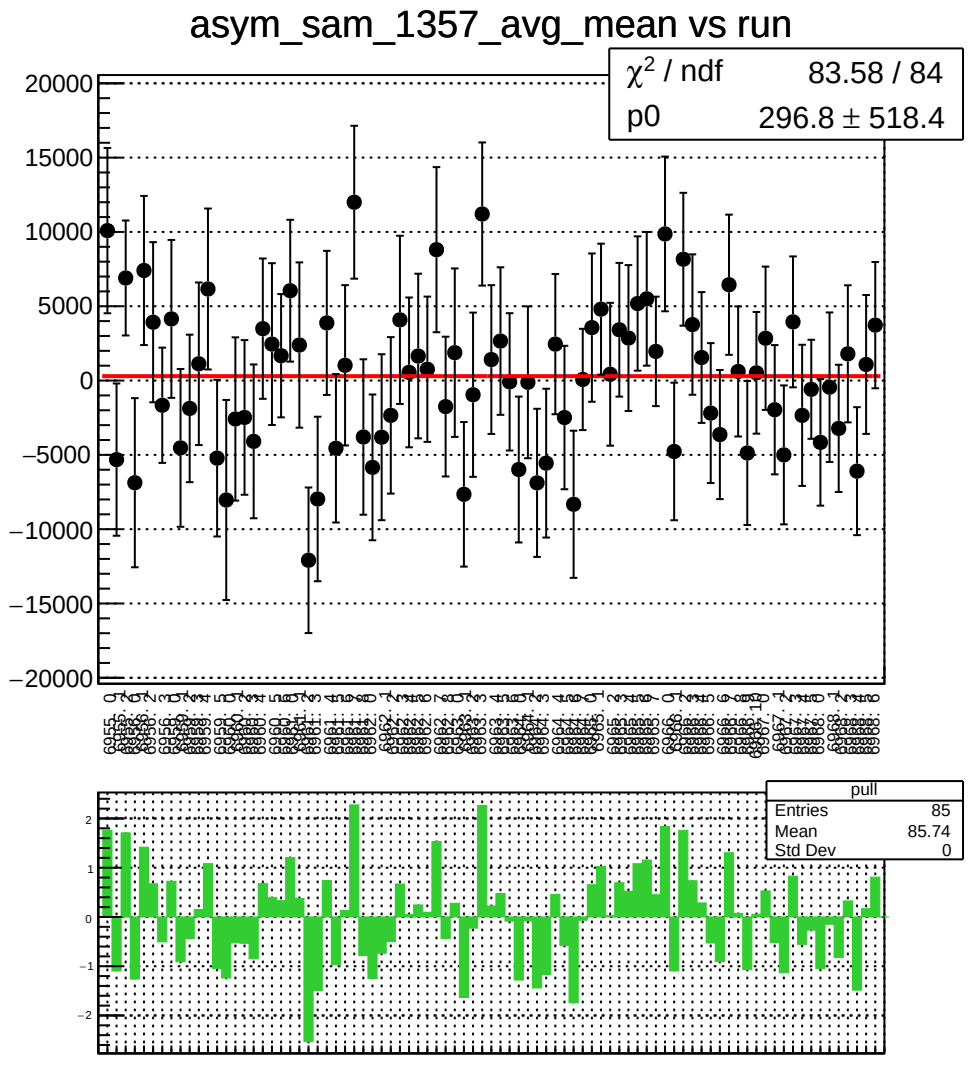

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 69 / 84
p0 86.56 ± 62.77
pull
Entries 85
Mean 374.6
Std Dev 0

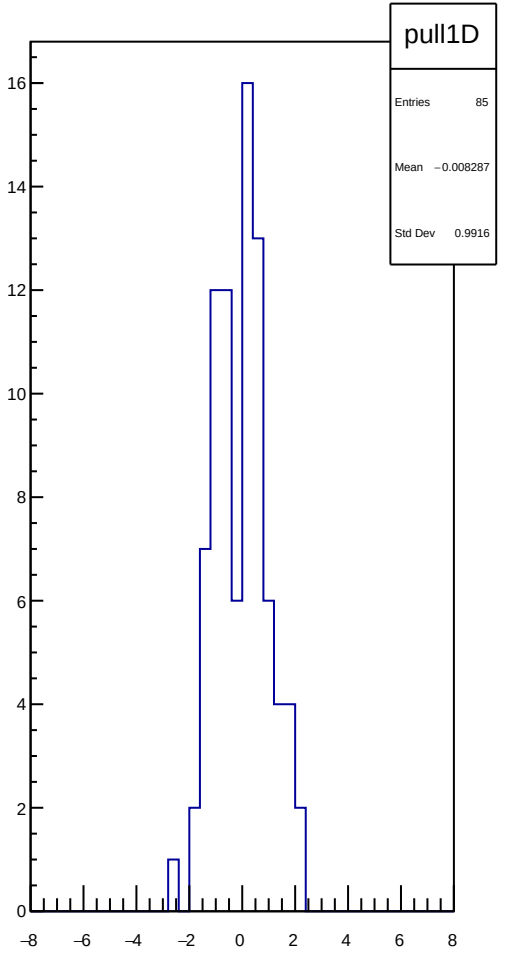

pull1D
Entries 85
Mean 0.006229
Std Dev 0.901

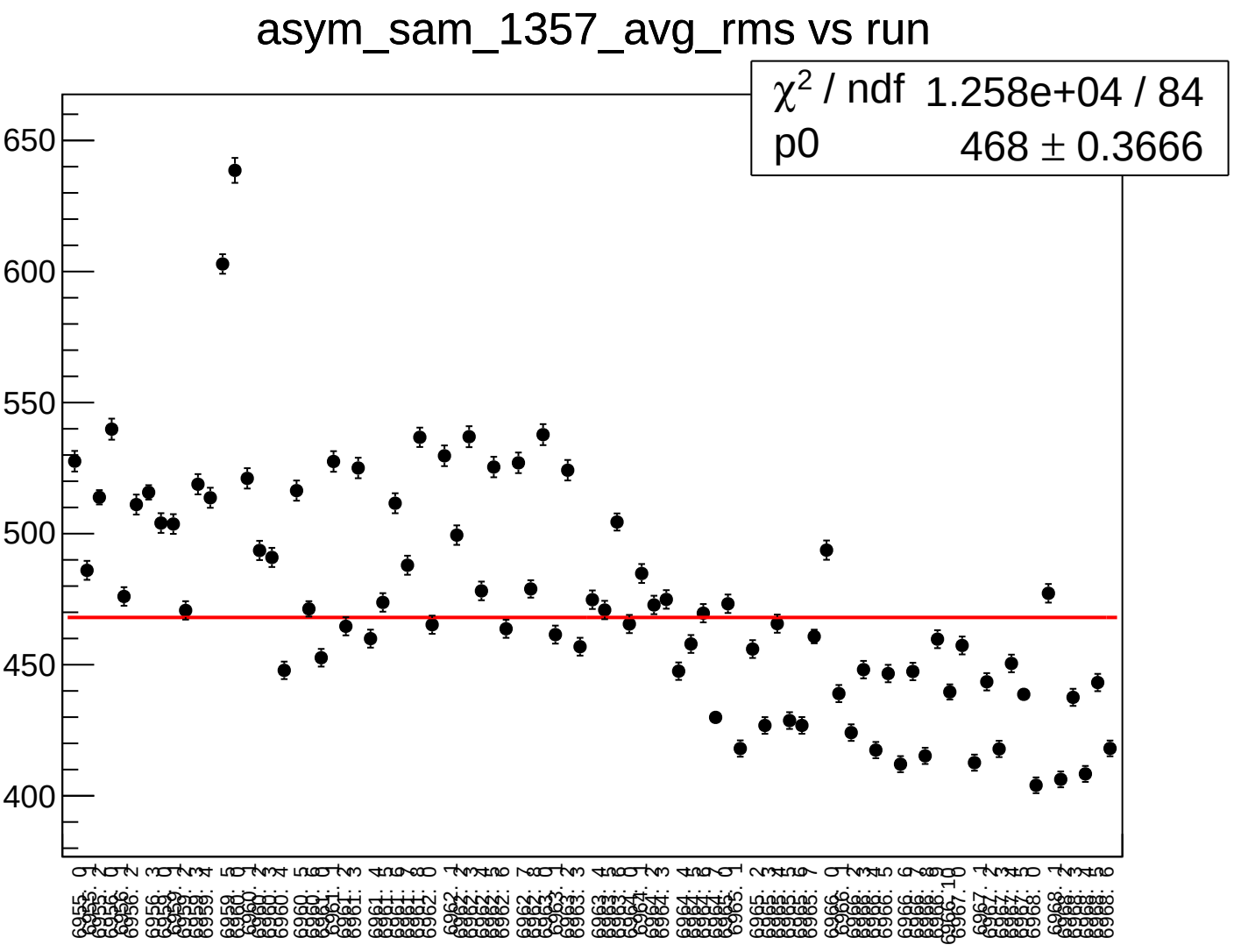

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.148e+04 / 84
p0 56.68 ± 0.04438
80
75
70
65
60
55
50

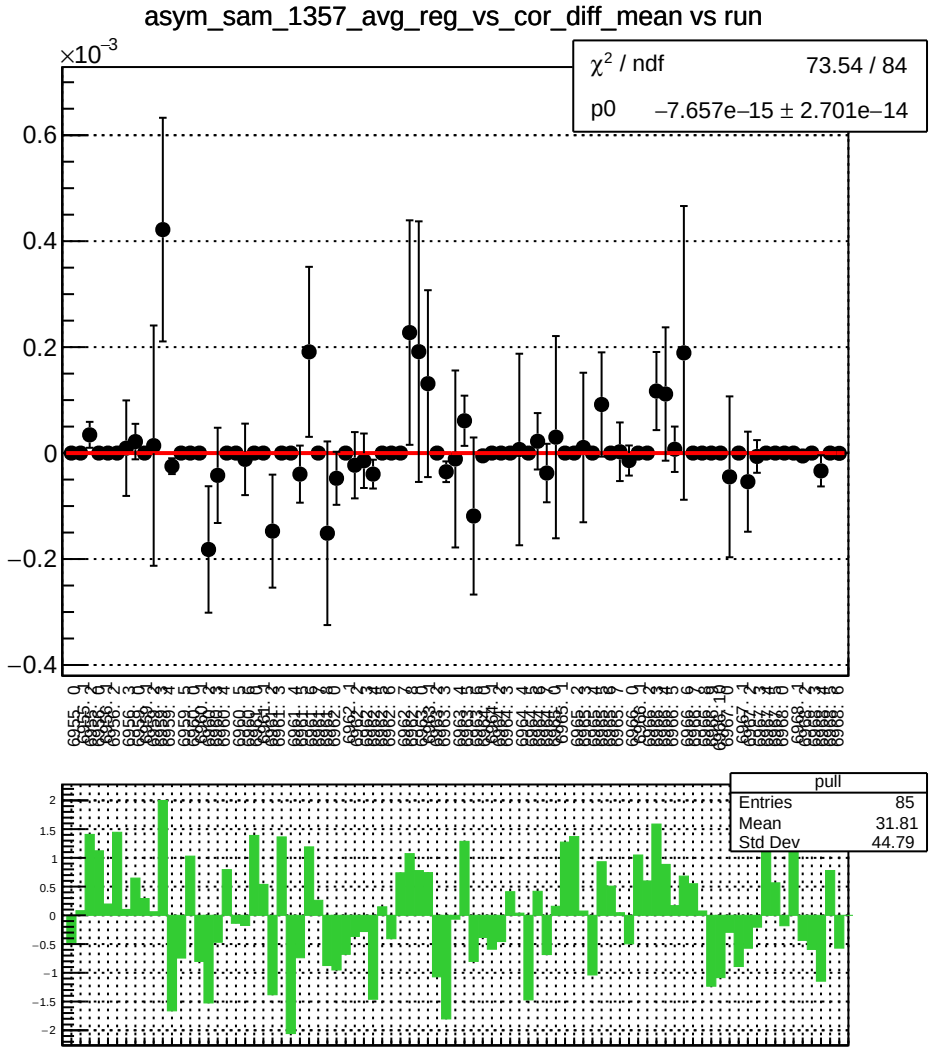

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.7 / 84
p0 −187.7 ± 499
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 121.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.007284
Std Dev 0.9804
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

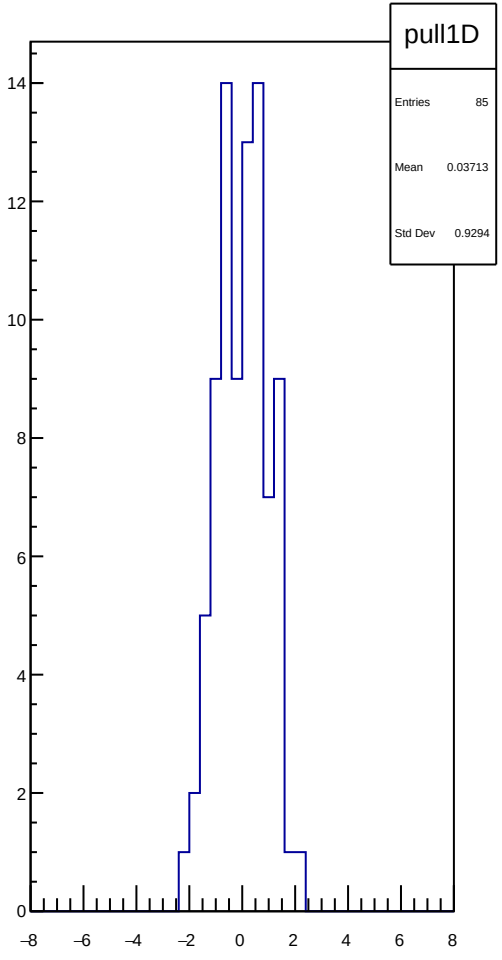

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 9787 / 84
p0 450.9 ± 0.3529
600
550
500
450
400

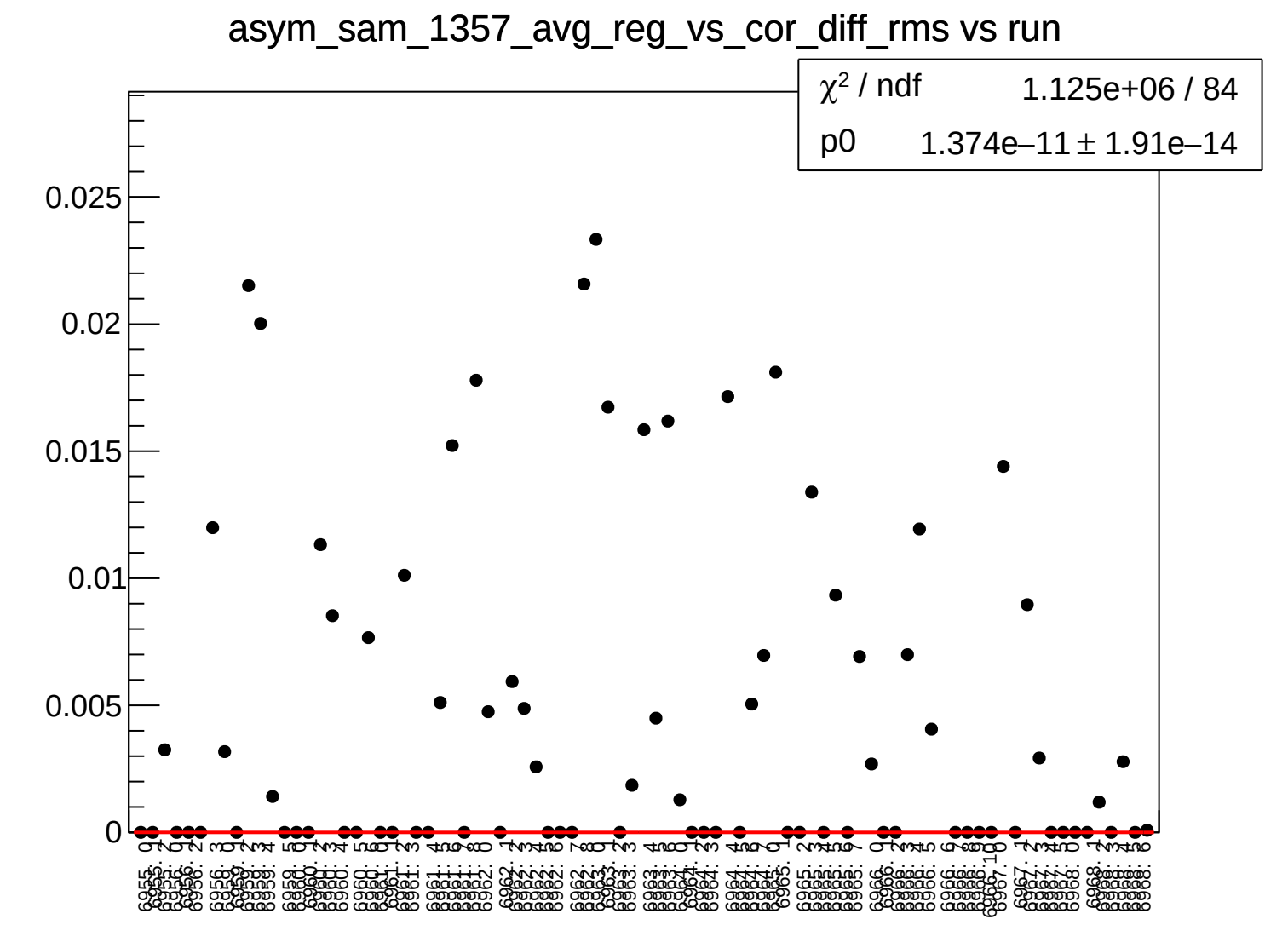

asym_sam_1357_avg_mean vs run
χ² / ndf 83.58 / 84
p0 296.8 ± 518.4
pull
Entries 85
Mean 85.74
Std Dev 0

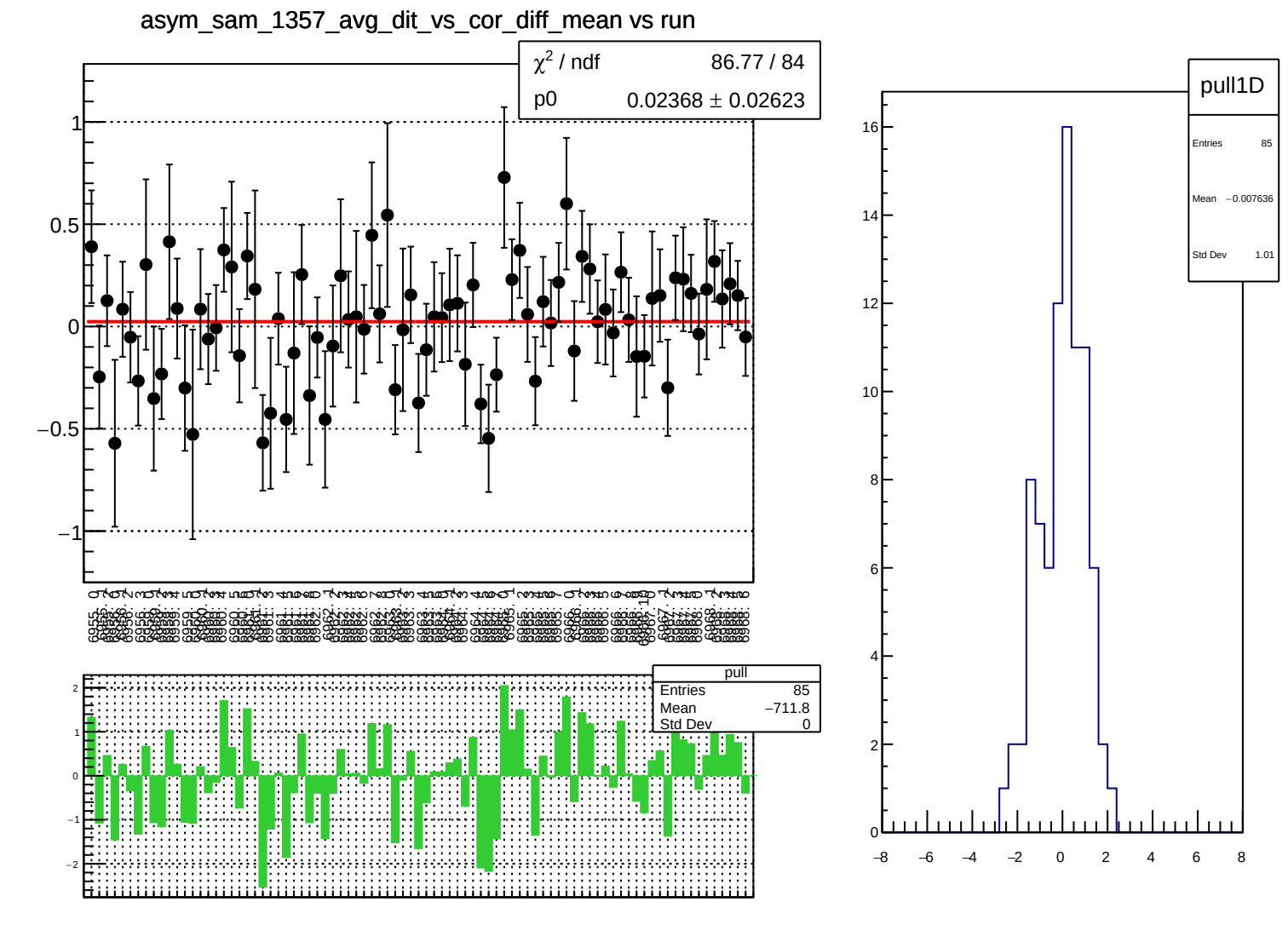

pull1D
Entries 85
Mean −0.008287
Std Dev 0.9916

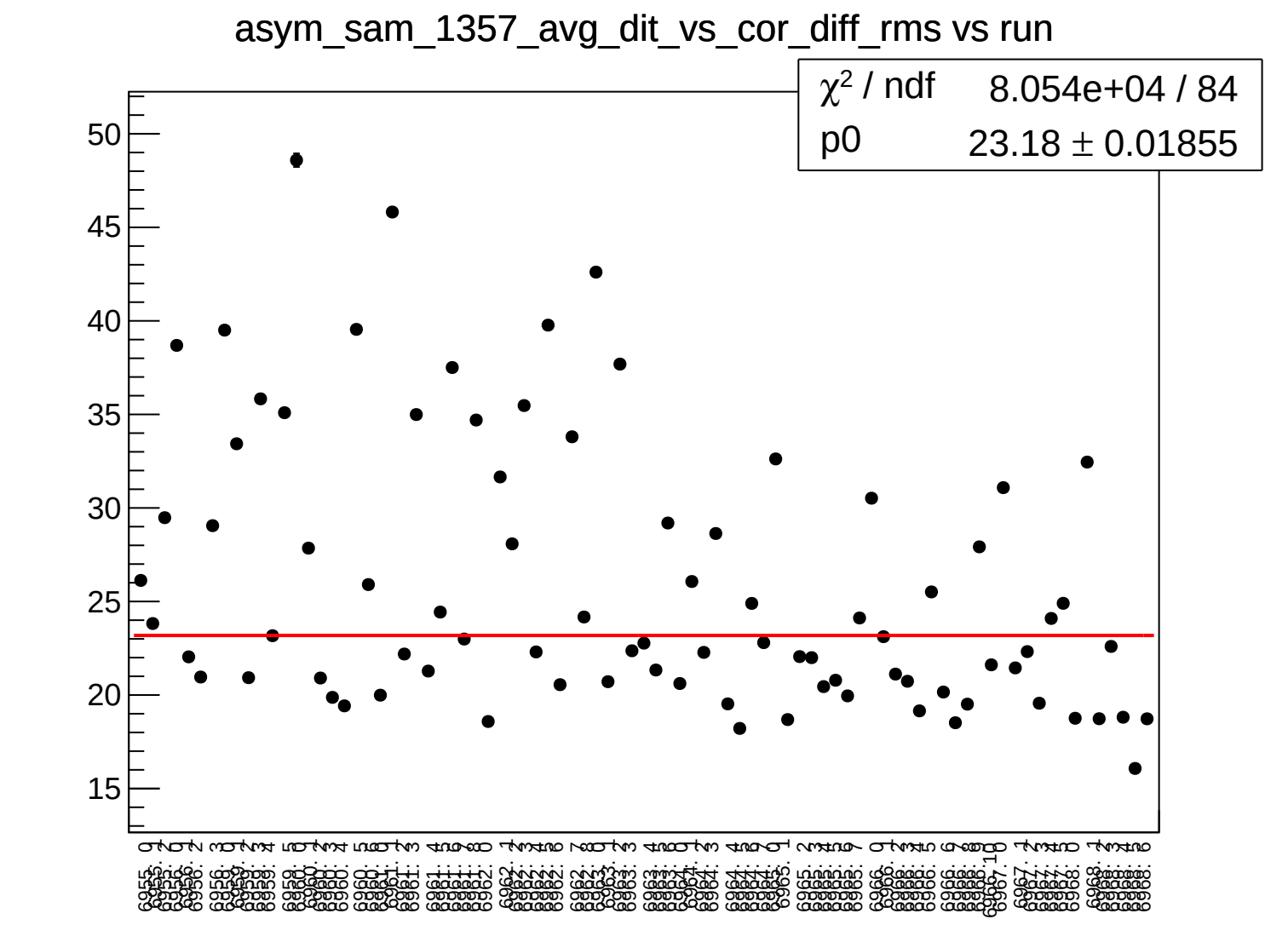

asym_sam_1357_avg_rms vs run
χ² / ndf 1.258e+04 / 84
p0 468 ± 0.3666
650
600
550
500
450
400

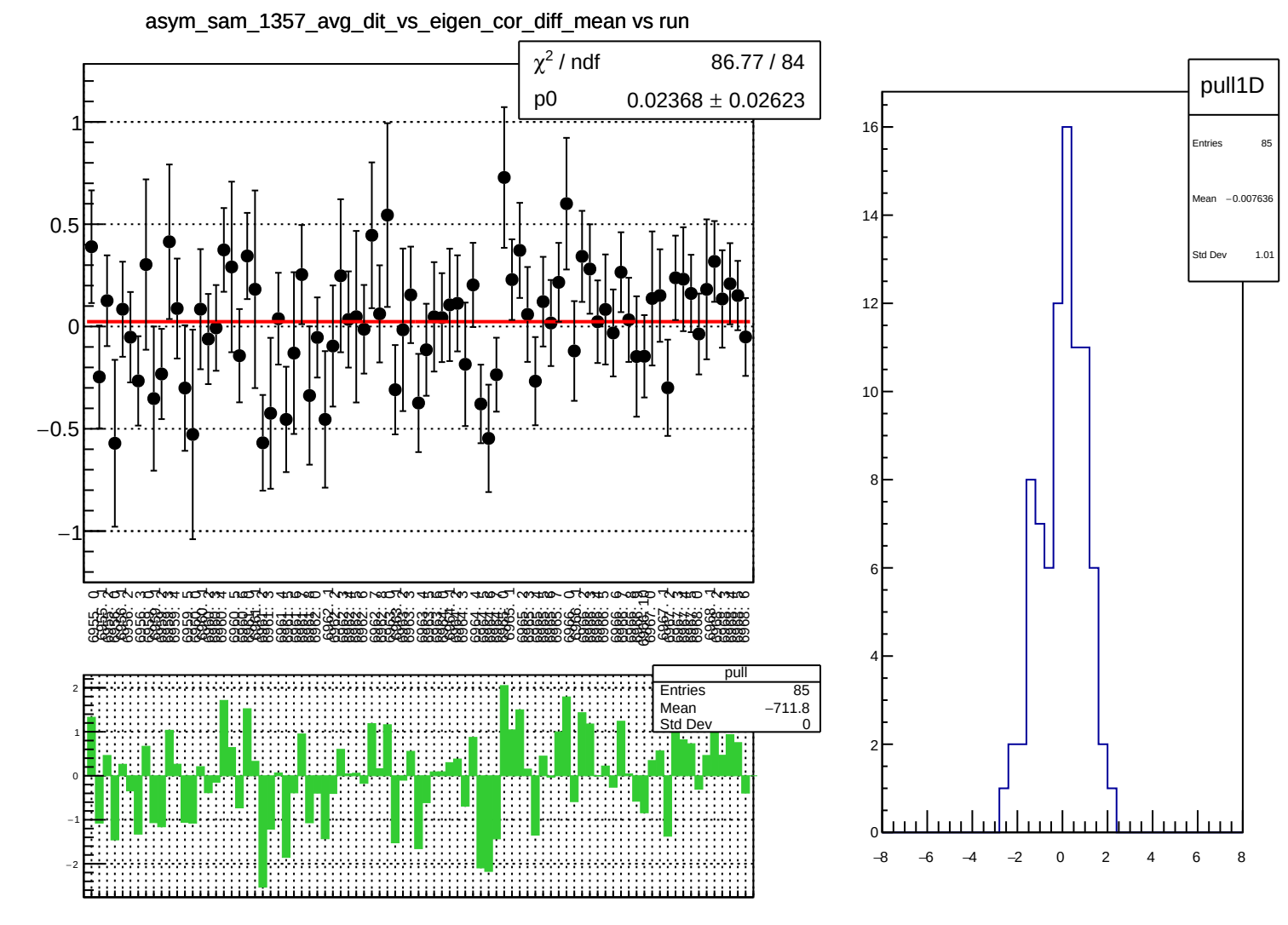

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 73.54 / 84
p0 −7.657e−15 ± 2.701e−14
pull
Entries 85
Mean 31.81
Std Dev 44.79

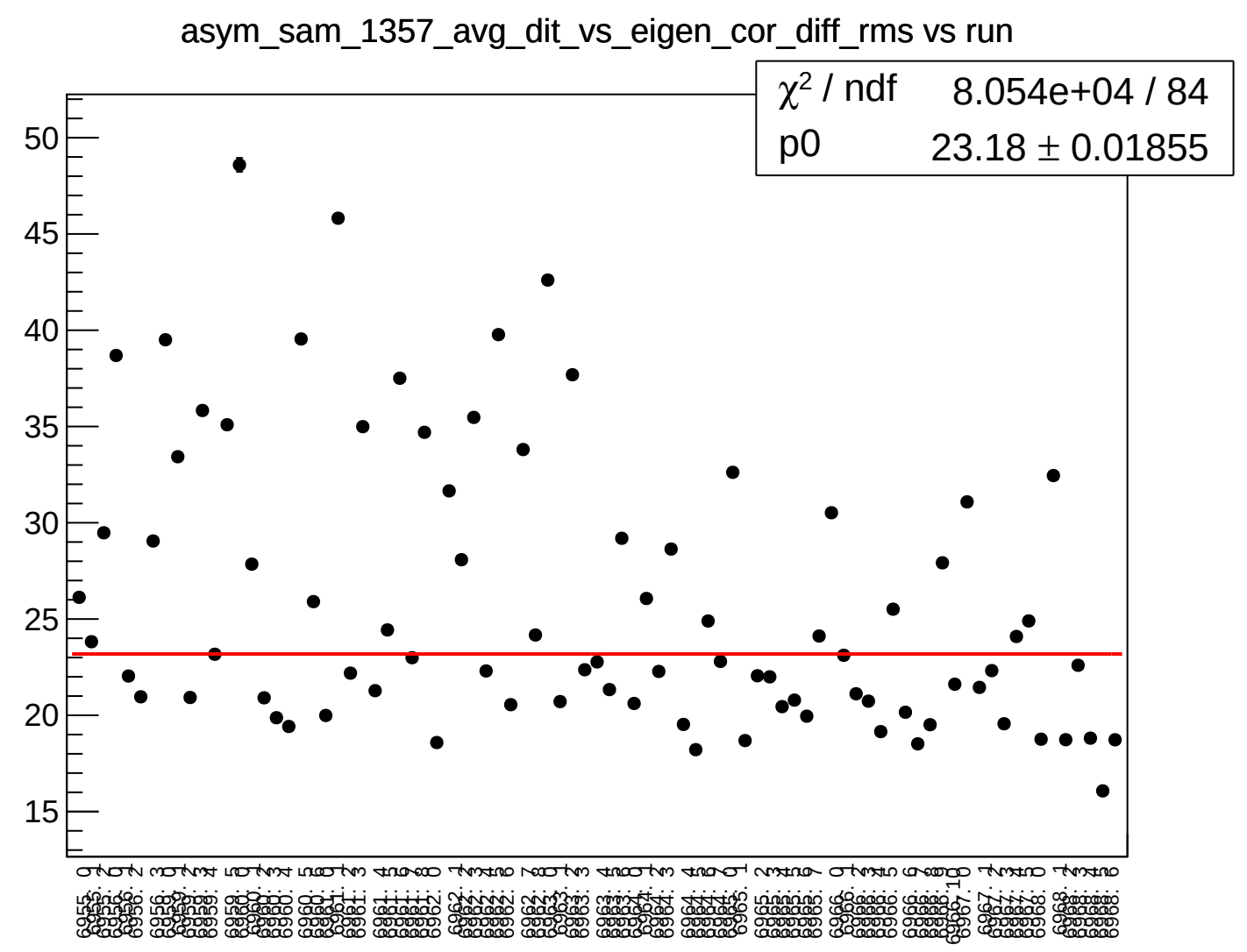

pull1D
Entries 85
Mean 0.03713
Std Dev 0.9294

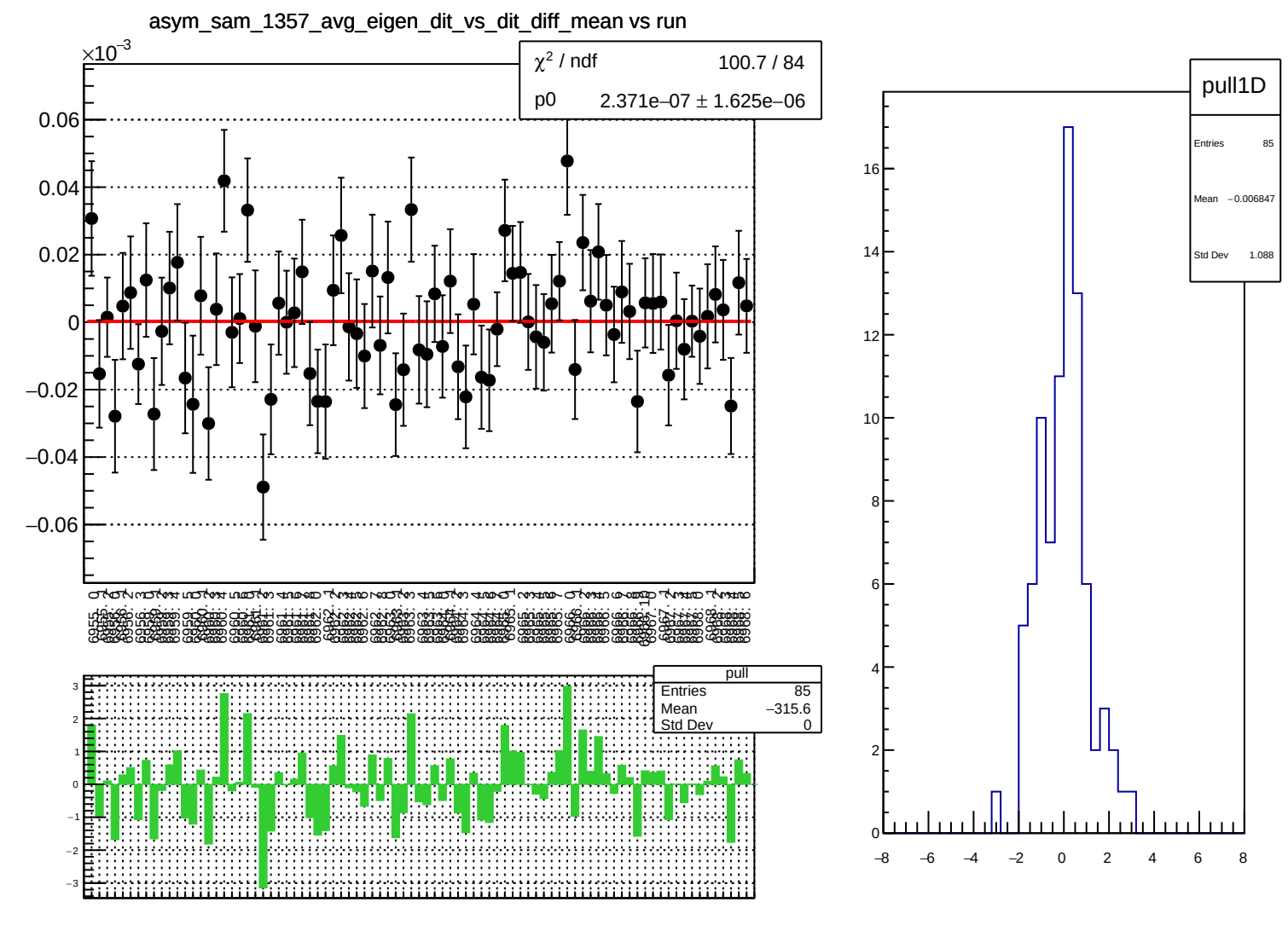

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.125e+06 / 84
p0 1.374e−11 ± 1.91e−14
0.025
0.02
0.015
0.01
0.005
0

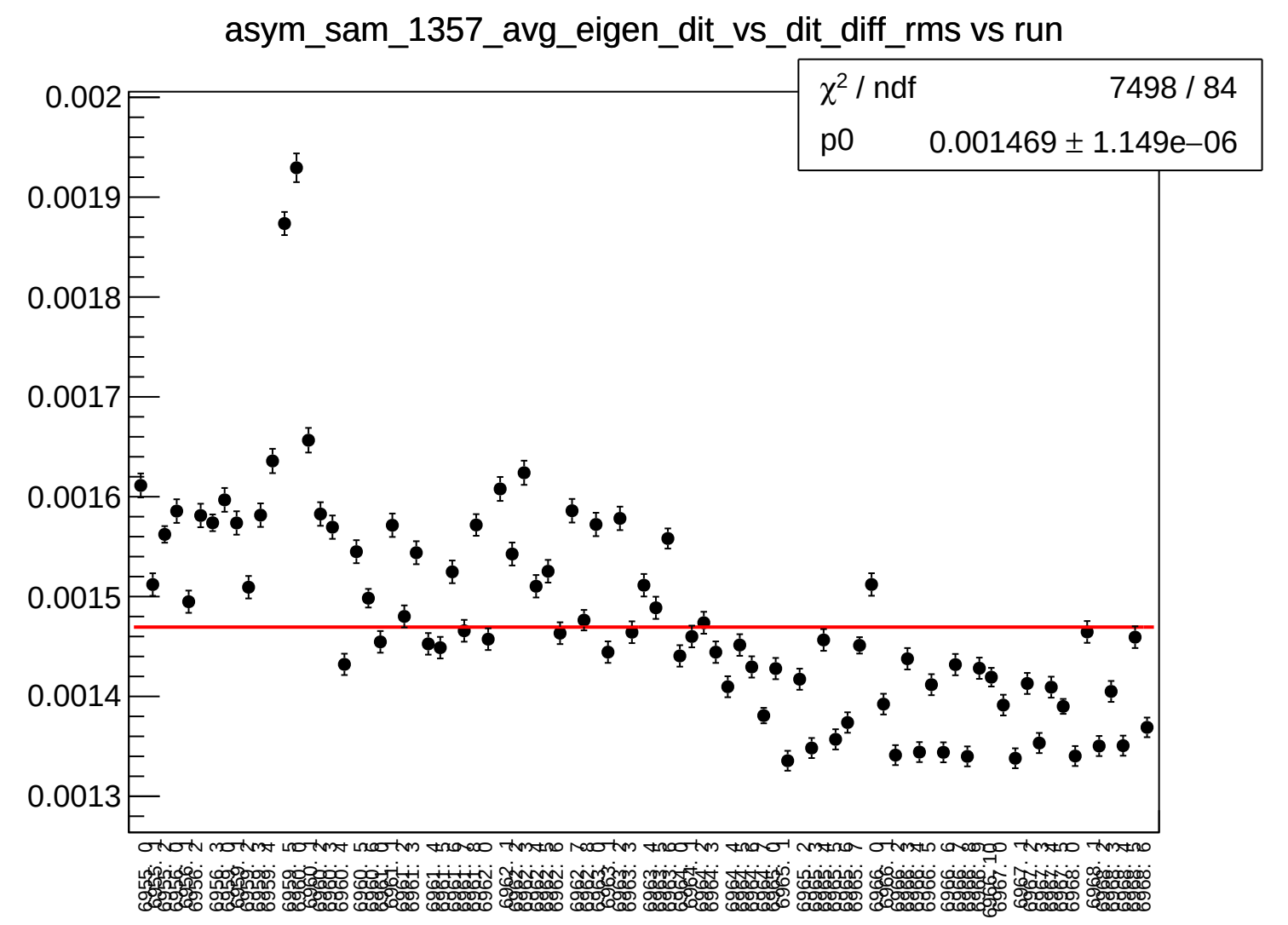

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.77 / 84
p0 0.02368 ± 0.02623
pull
Entries 85
Mean −711.8
Std Dev 0
pull1D
Entries 85
Mean −0.007636
Std Dev 1.01

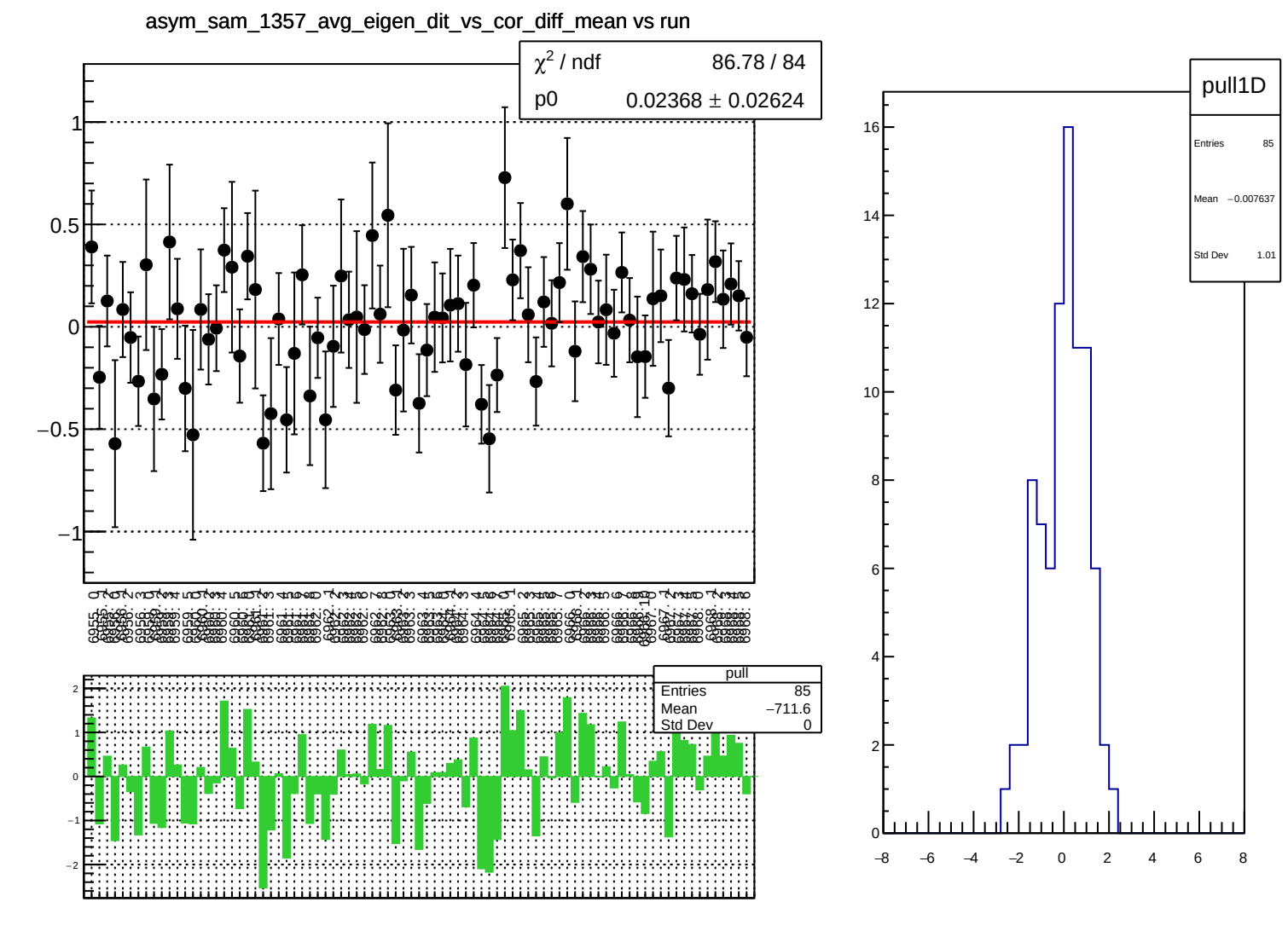

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.054e+04 / 84
p0 23.18 ± 0.01855
50
45
40
35
30
25
20
15

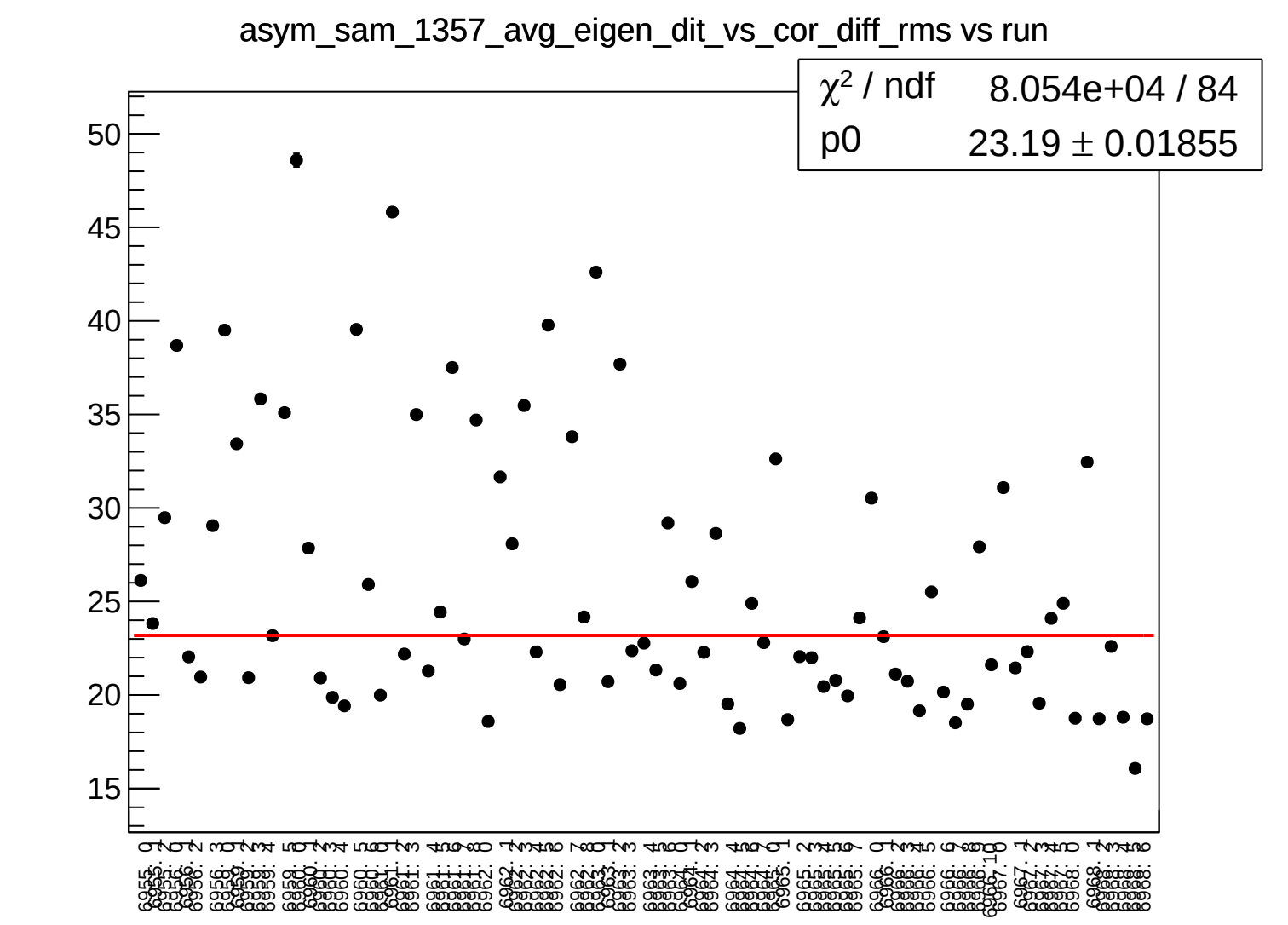

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.77 / 84
p0 0.02368 ± 0.02623
pull
Entries 85
Mean −711.8
Std Dev 0
pull1D
Entries 85
Mean −0.007636
Std Dev 1.01


asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.054e+04 / 84
p0 23.18 ± 0.01855
50
45
40
35
30
25
20
15

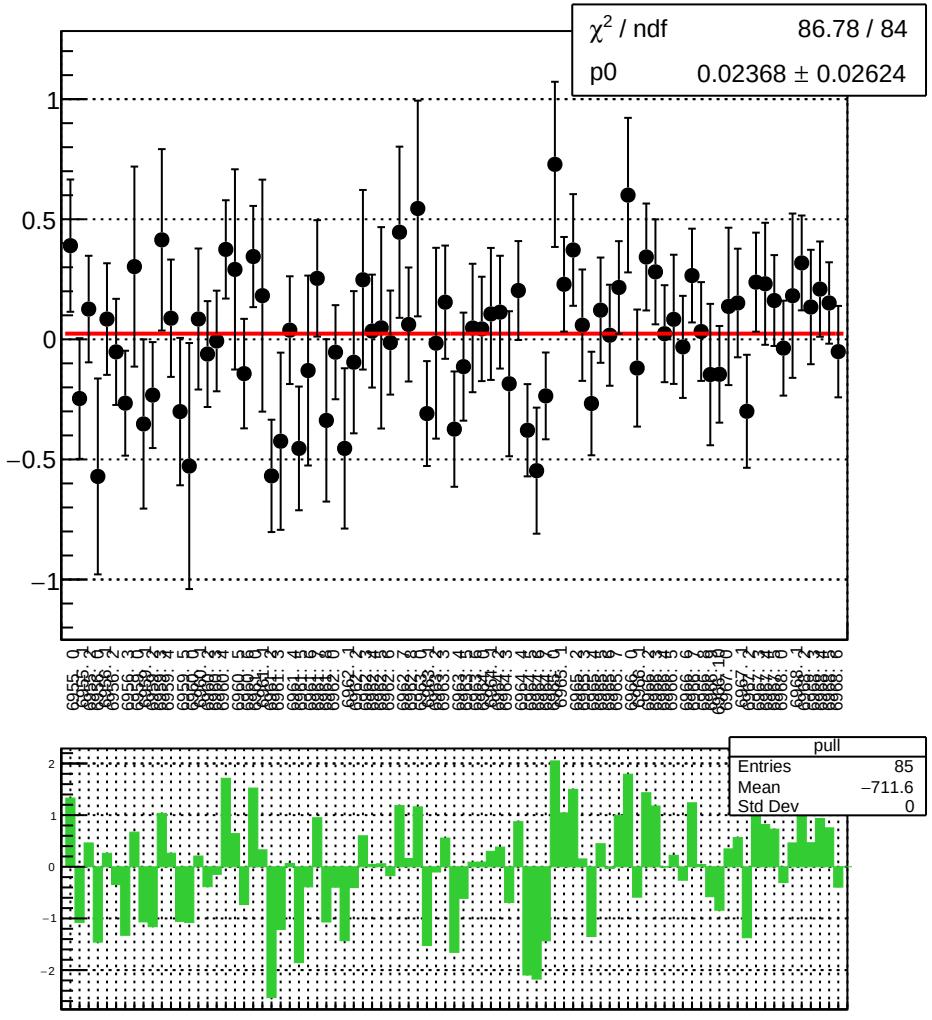

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 84
p0 2.371e−07 ± 1.625e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 85
Mean −315.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.006847
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

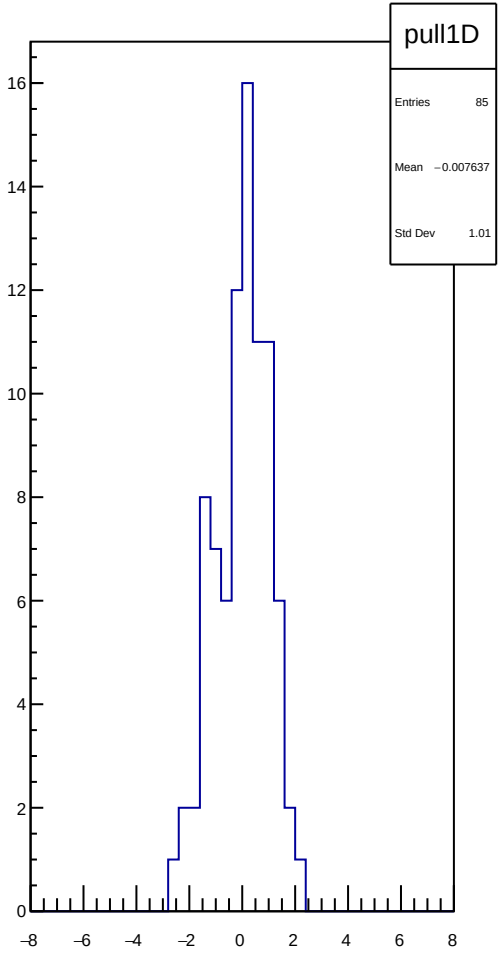

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7498 / 84
p0 0.001469 ± 1.149e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

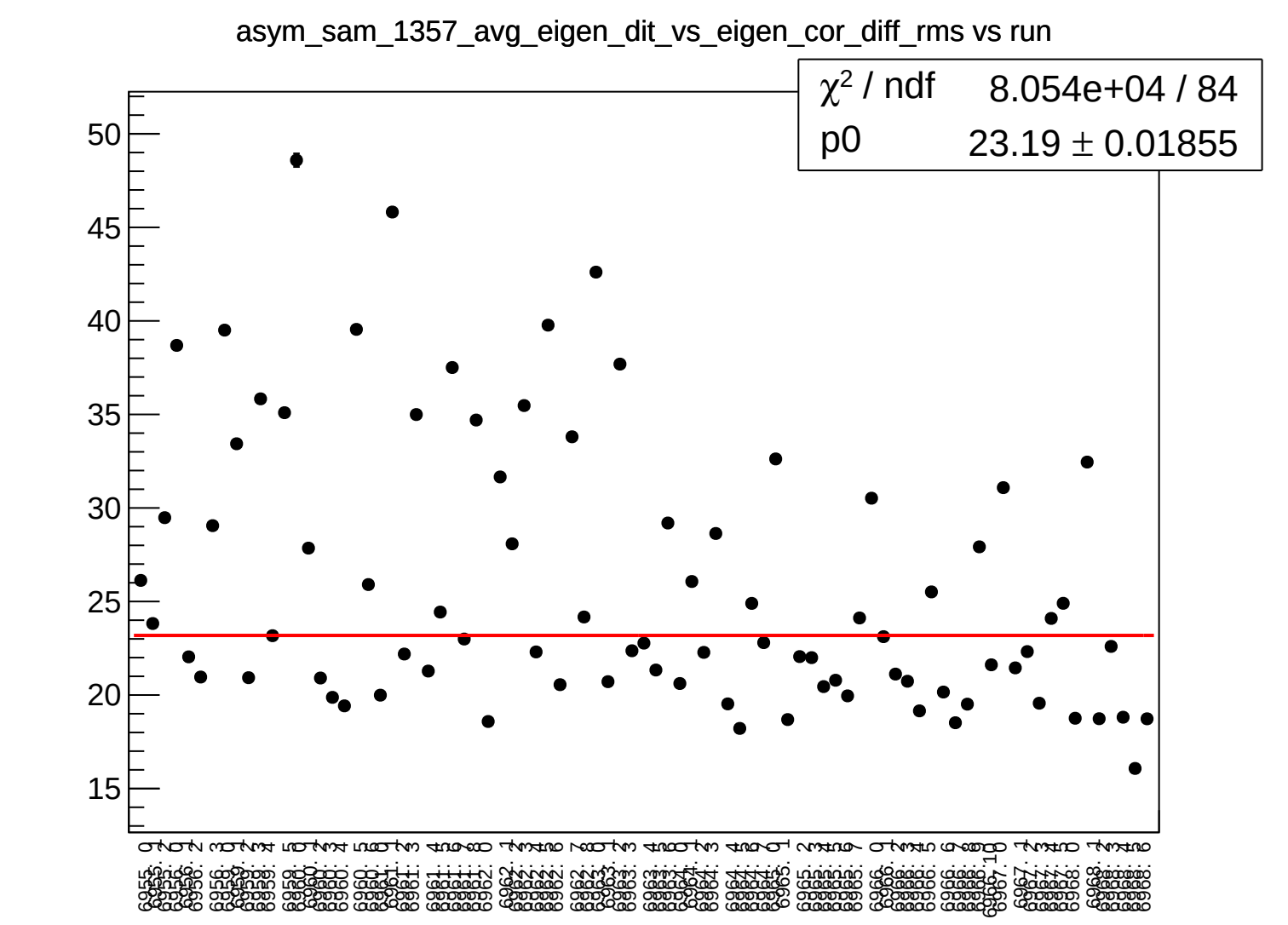

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.78 / 84
p0 0.02368 ± 0.02624
pull
Entries 85
Mean −711.6
Std Dev 0
pull1D
Entries 85
Mean −0.007637
Std Dev 1.01

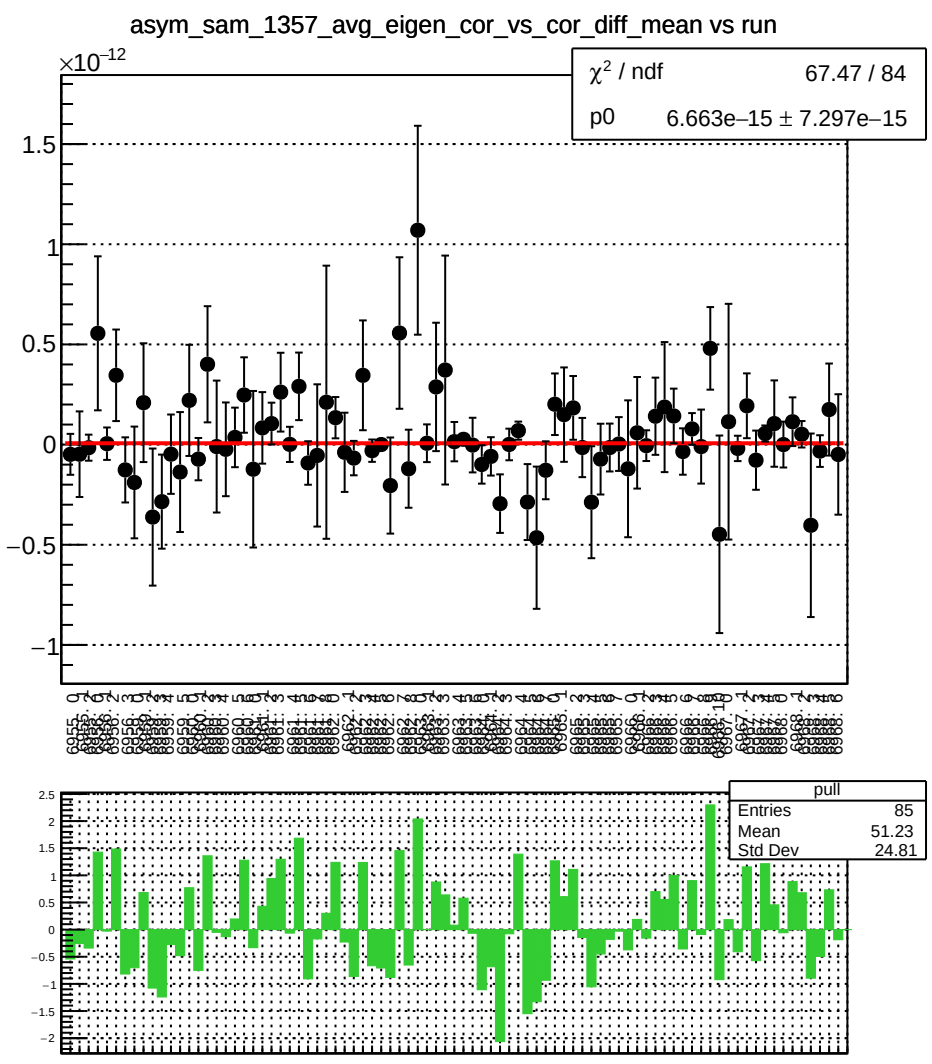

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.054e+04 / 84
p0 23.19 ± 0.01855
50
45
40
35
30
25
20
15

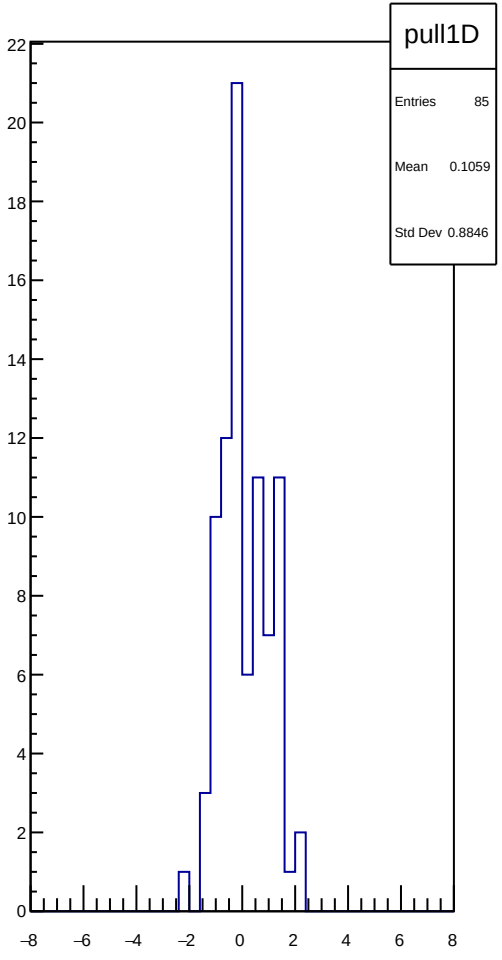
asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

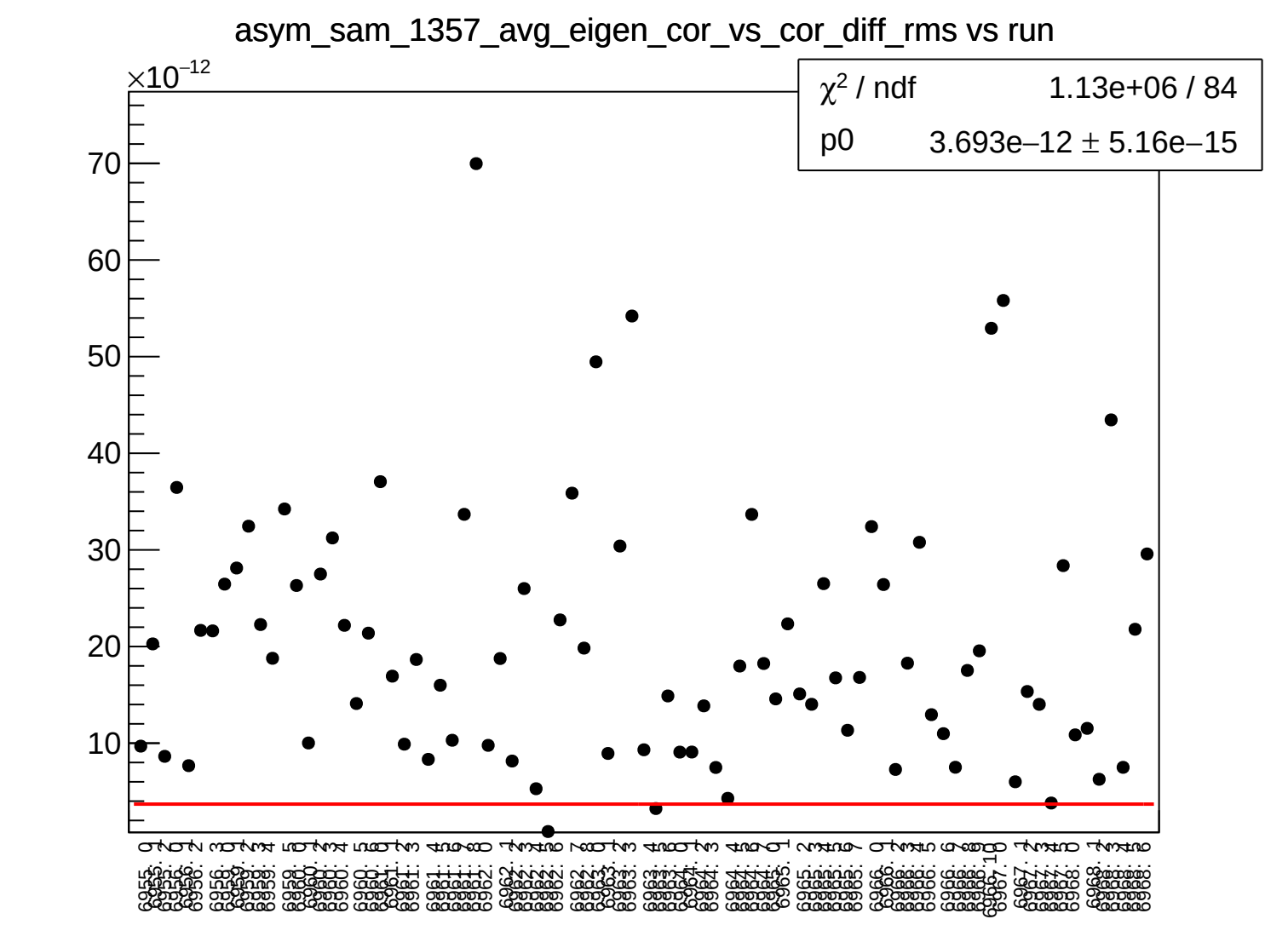


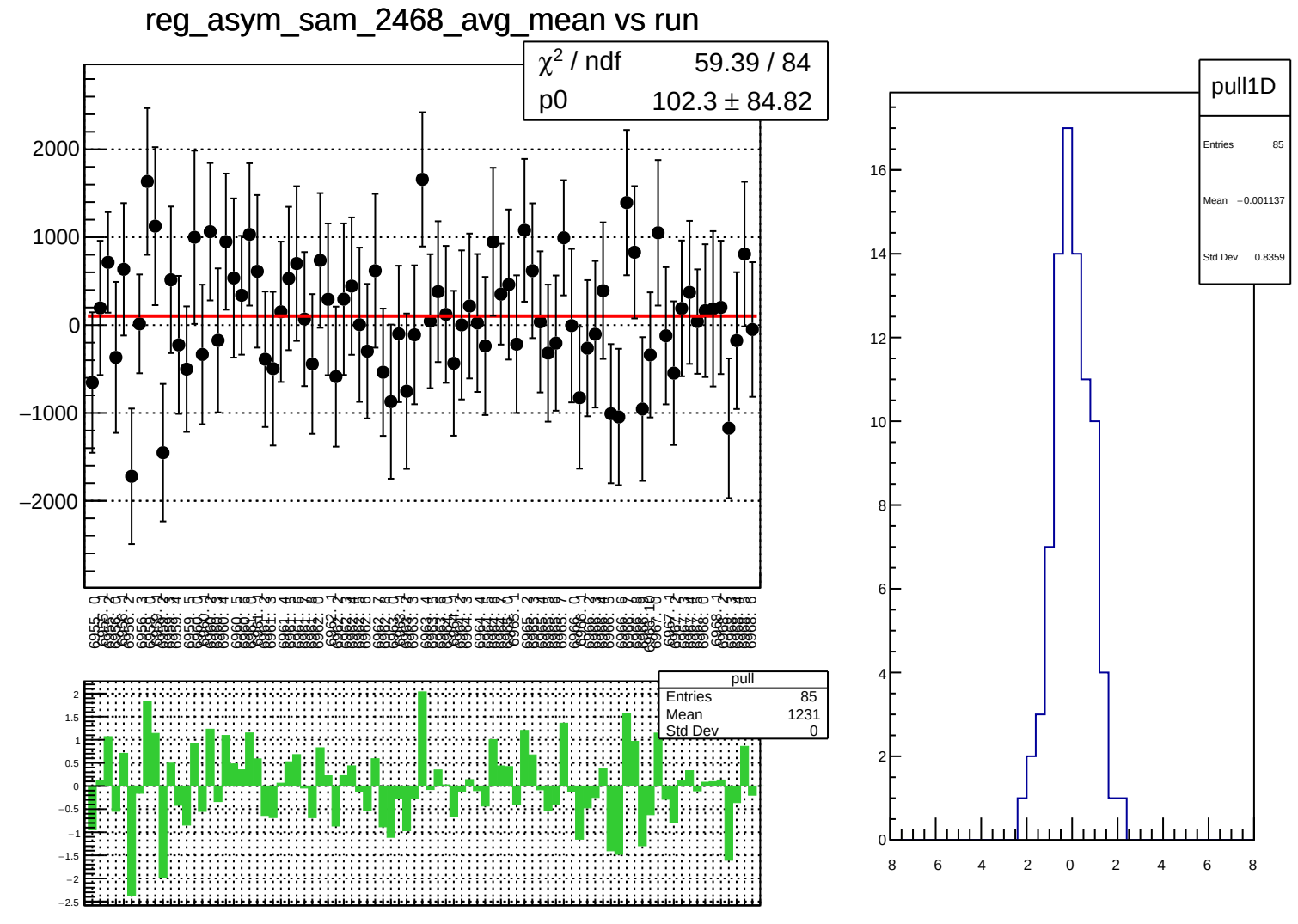



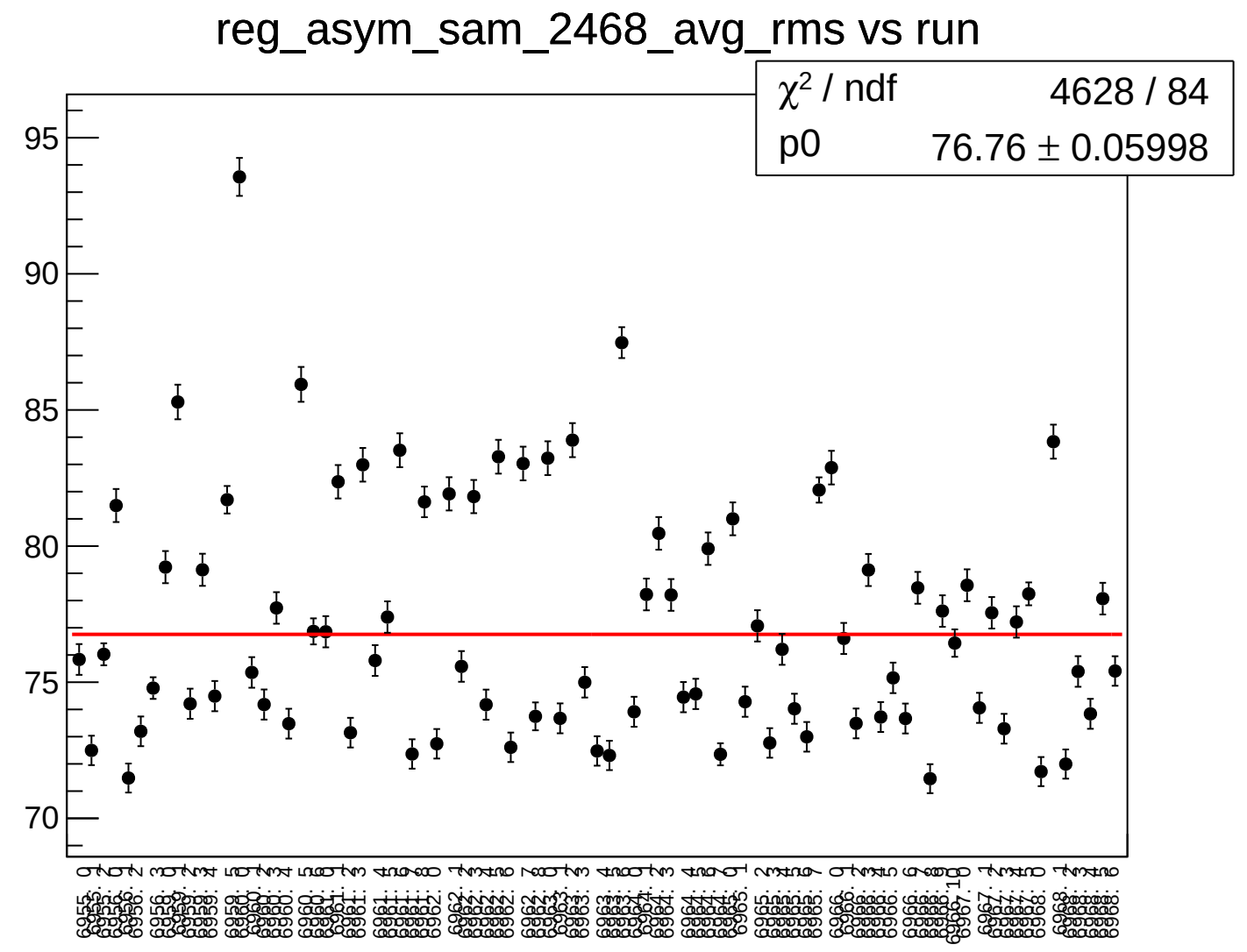

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.054e+04 / 84
p0 23.19 ± 0.01855
50
45
40
35
30
25
20
15

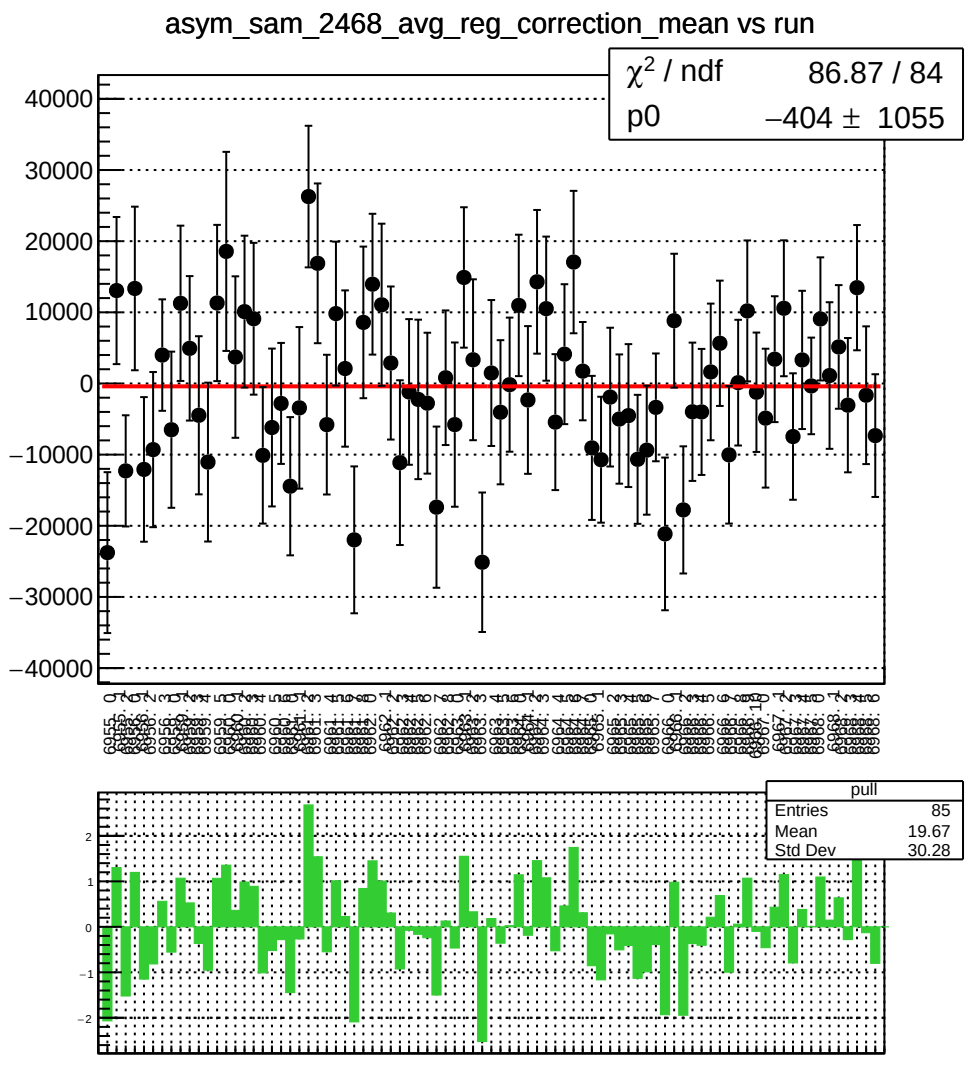

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.47 / 84
p0 6.663e−15 ± 7.297e−15
pull
Entries 85
Mean 51.23
Std Dev 24.81

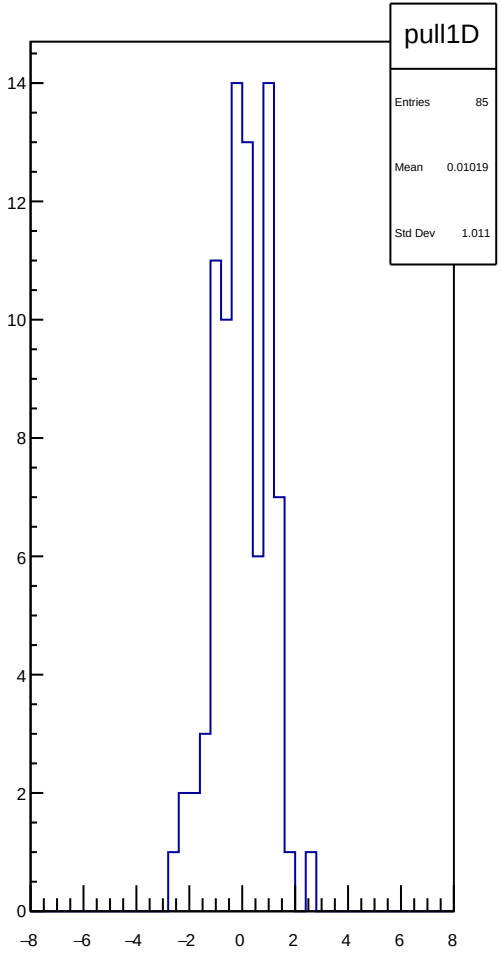

pull1D
Entries 85
Mean 0.1059
Std Dev 0.8846

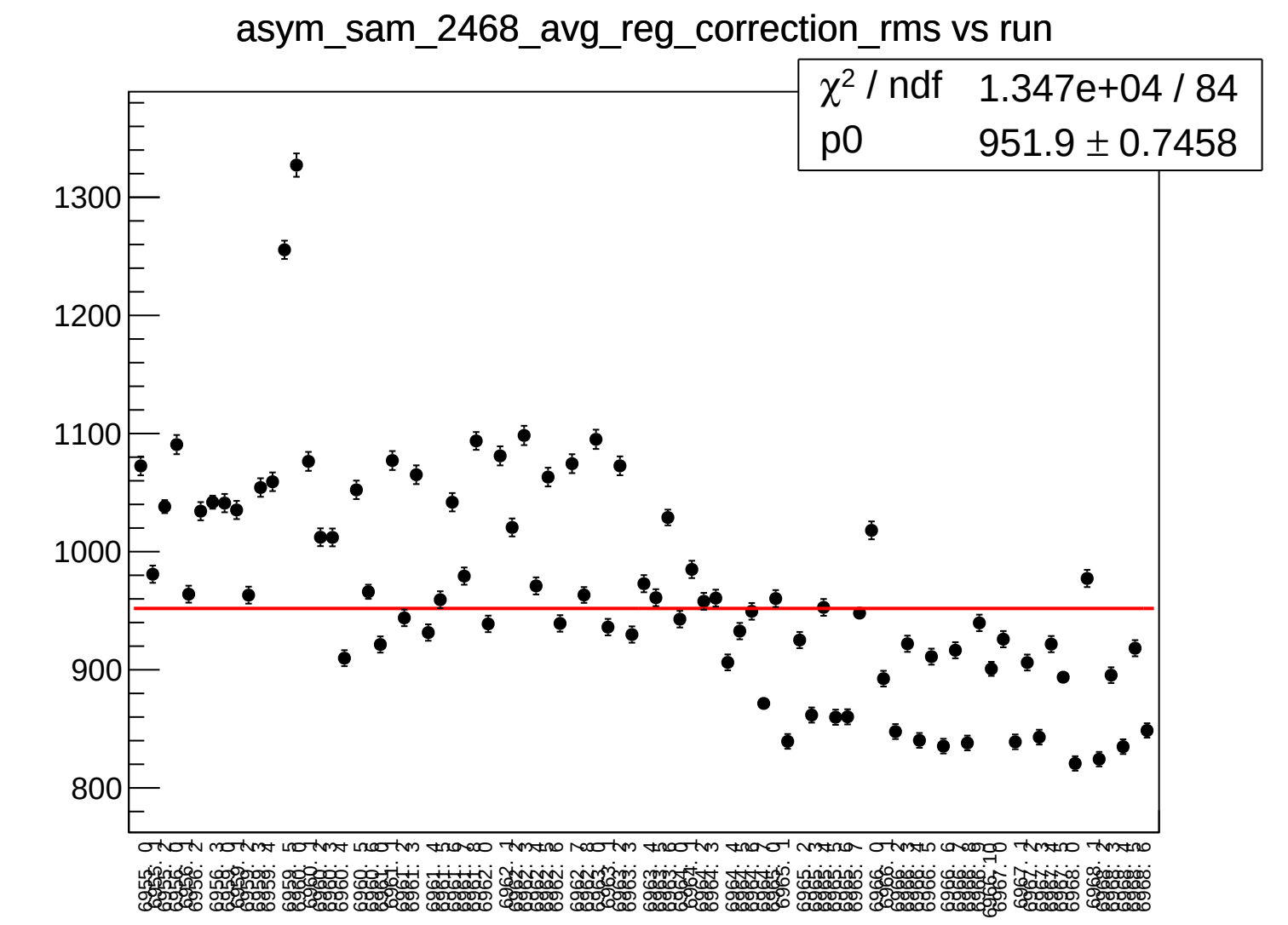

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.13e+06 / 84
p0 3.693e−12 ± 5.16e−15
70
60
50
40
30
20
10

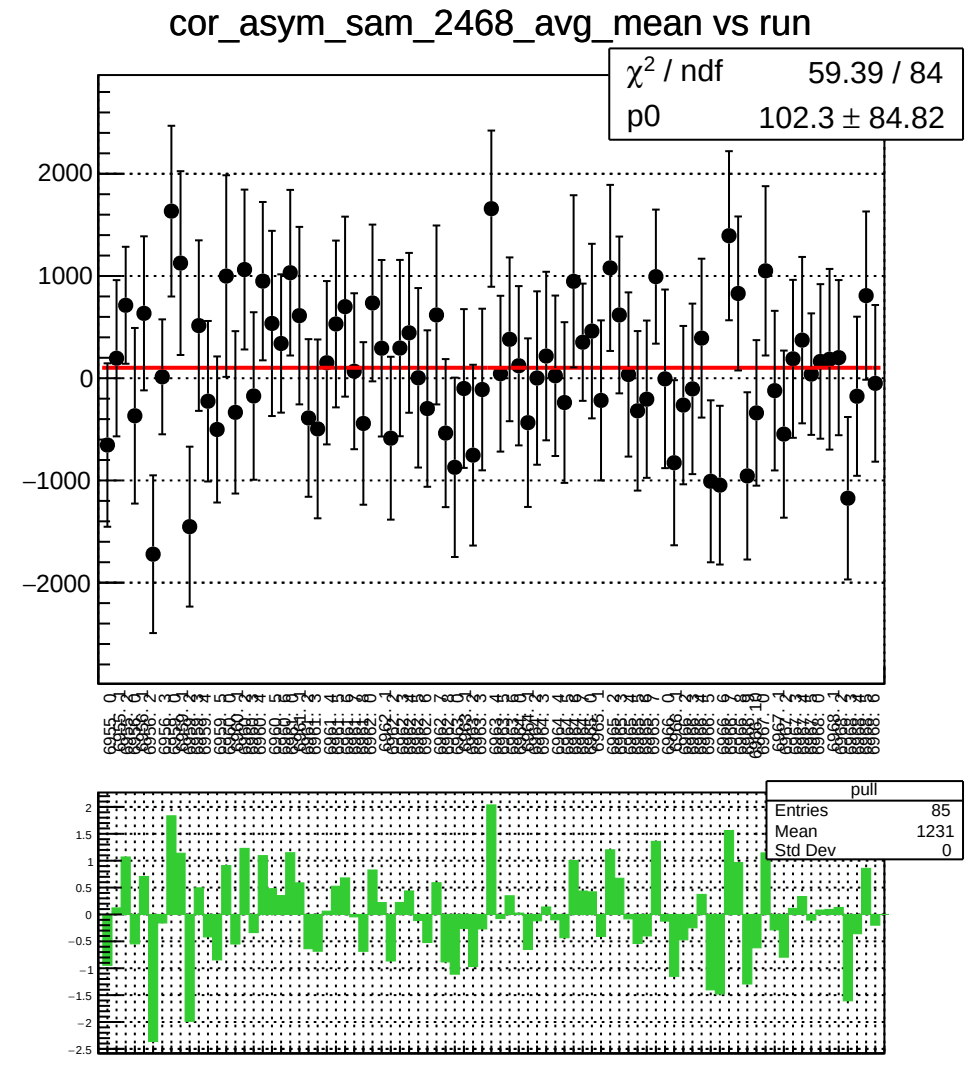

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 59.39 / 84
p0 102.3 ± 84.82
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 1231
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean −0.001137
Std Dev 0.8359
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

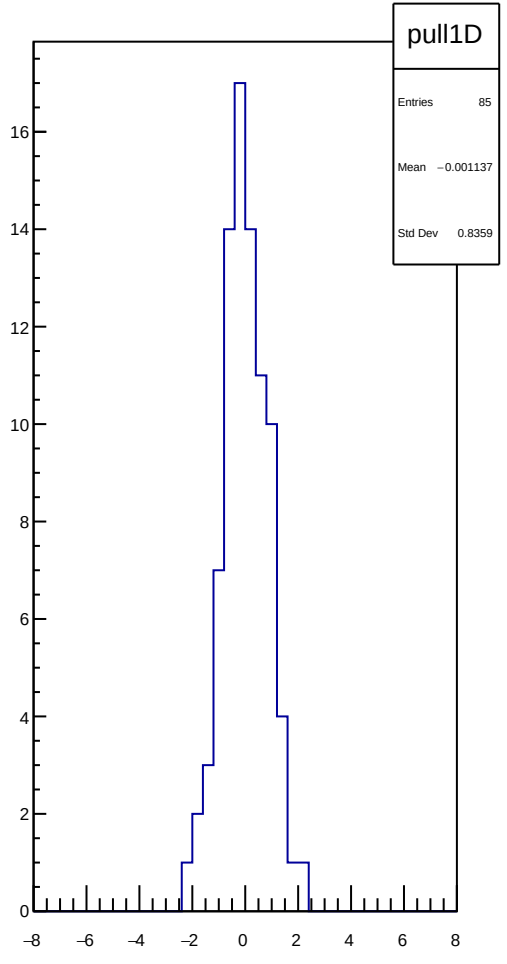

reg_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 4628 / 84
p0 76.76 ± 0.05998
95
90
85
80
75
70

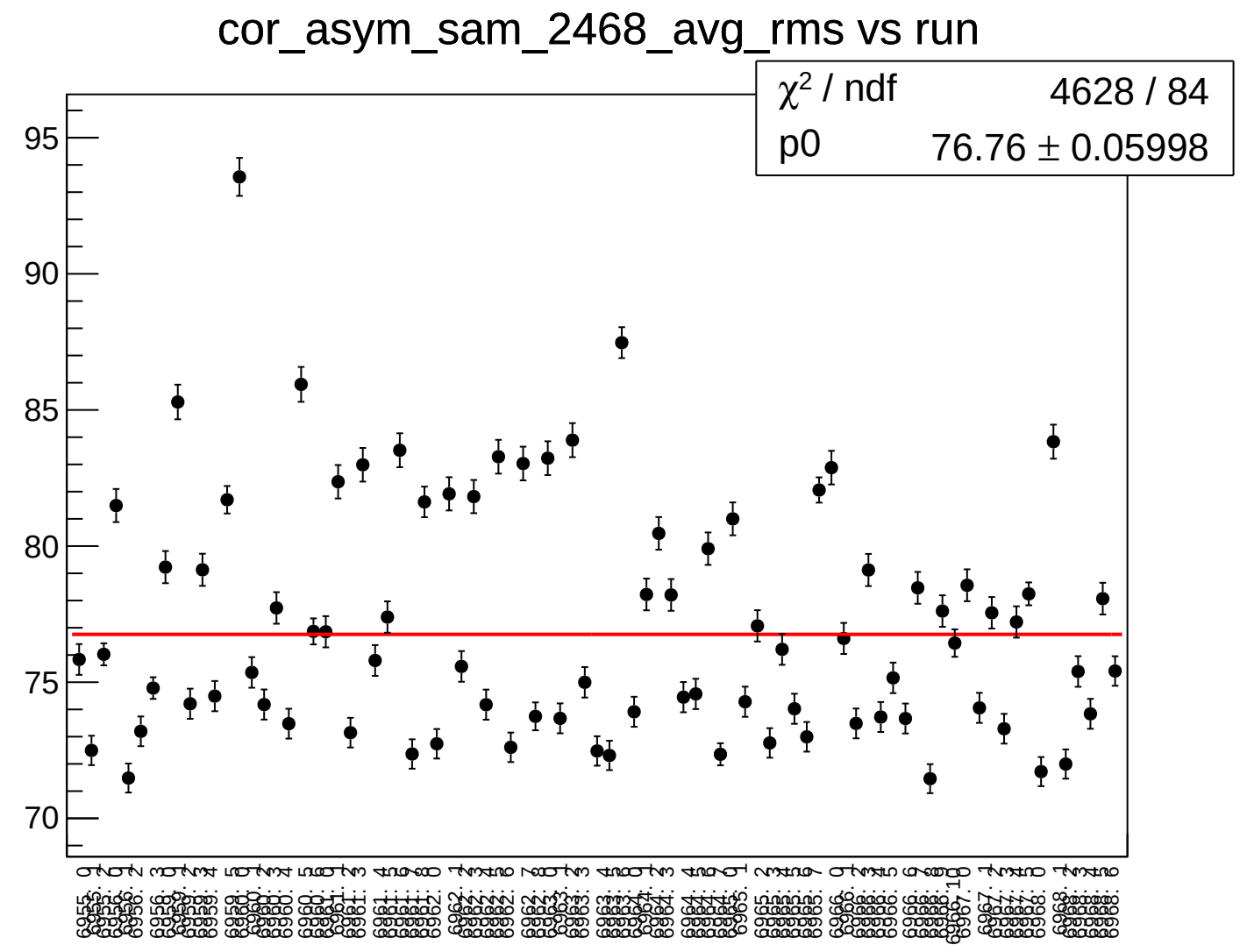

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 86.87 / 84
p0 −404 ± 1055
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 19.67
Std Dev 30.28
2
1
0
−1
−2

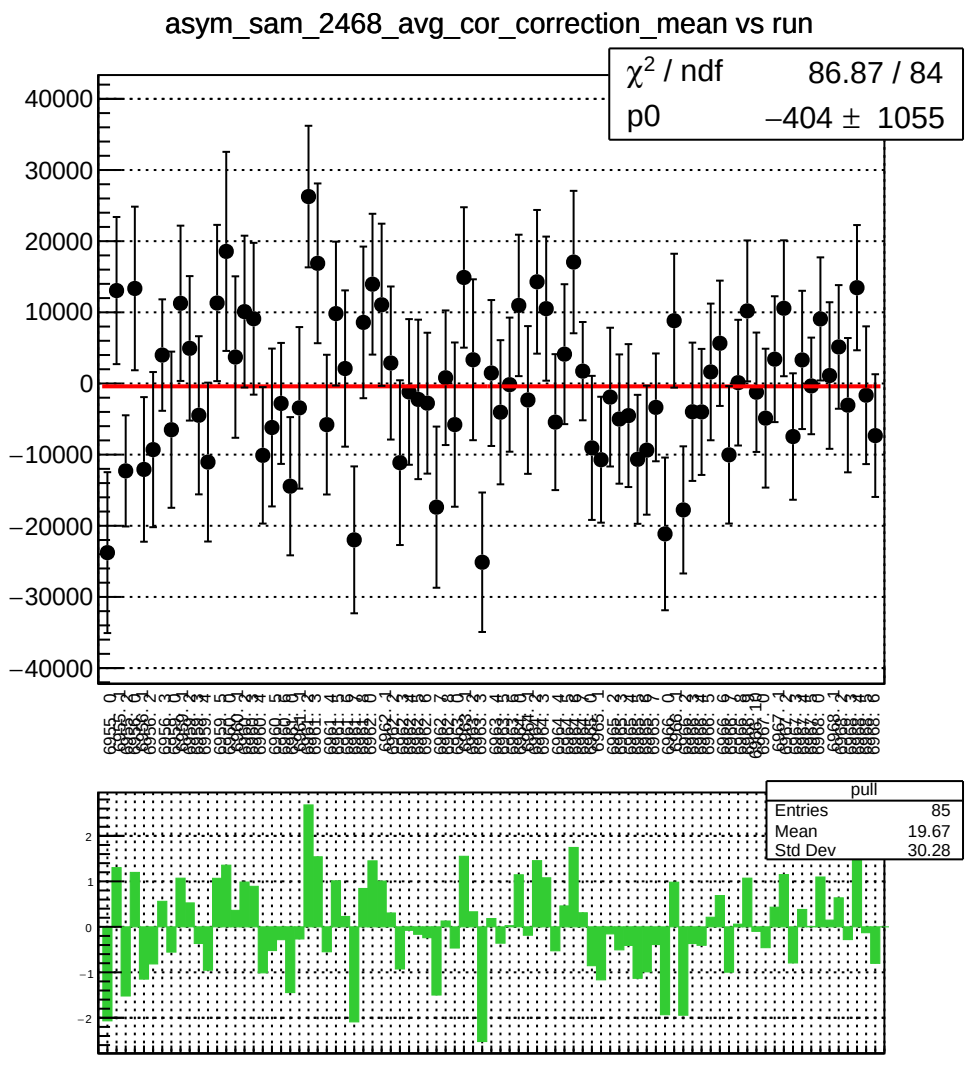

pull1D
Entries 85
Mean 0.01019
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

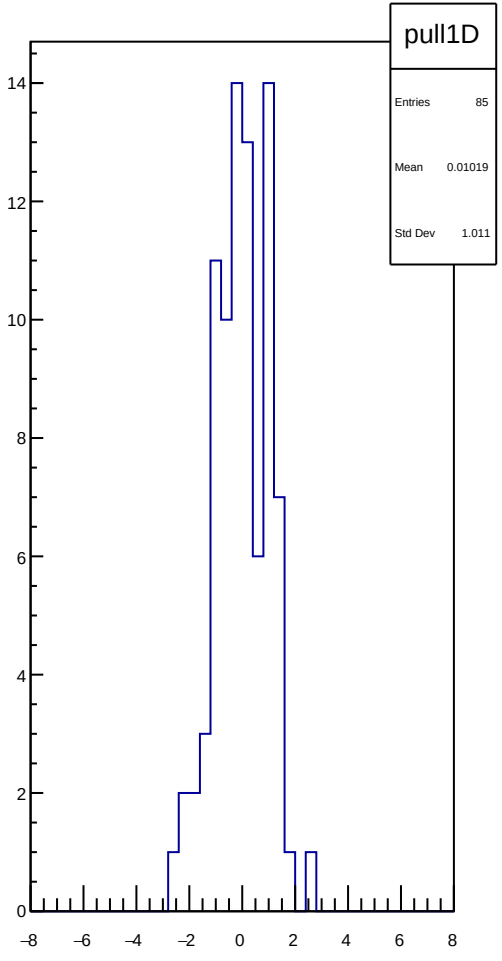

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.347e+04 / 84
p0 951.9 ± 0.7458
1300
1200
1100
1000
900
800

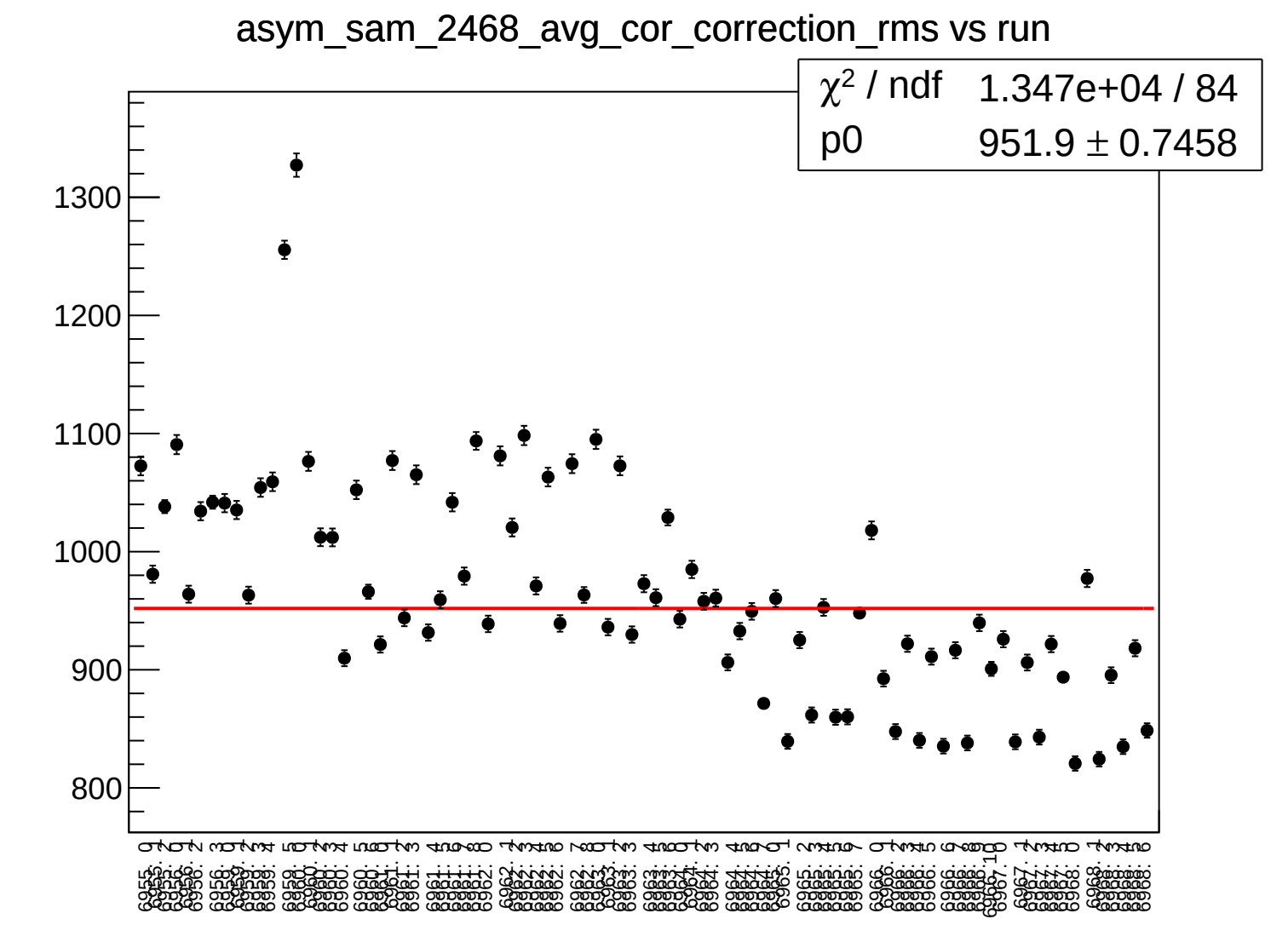

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 59.39 / 84
p0 102.3 ± 84.82
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 1231
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

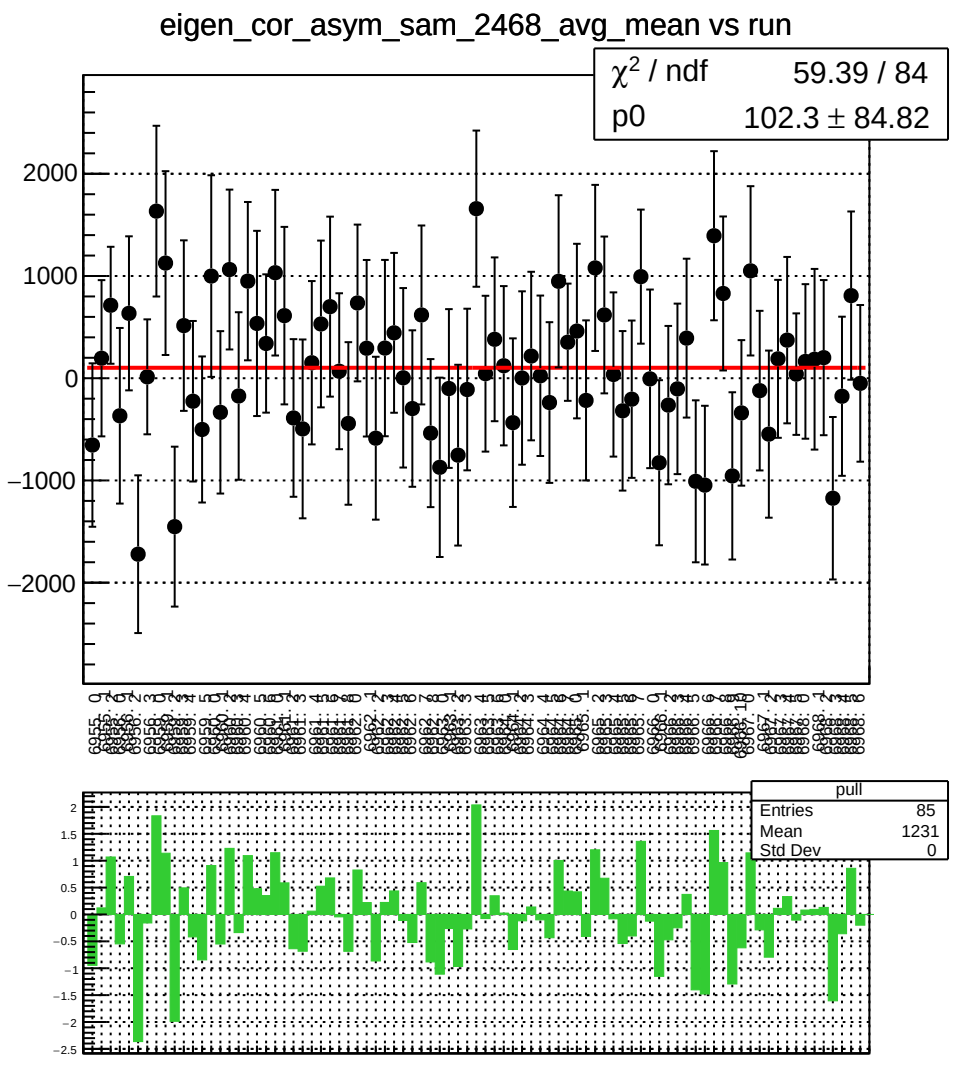

pull1D
Entries 85
Mean −0.001137
Std Dev 0.8359
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

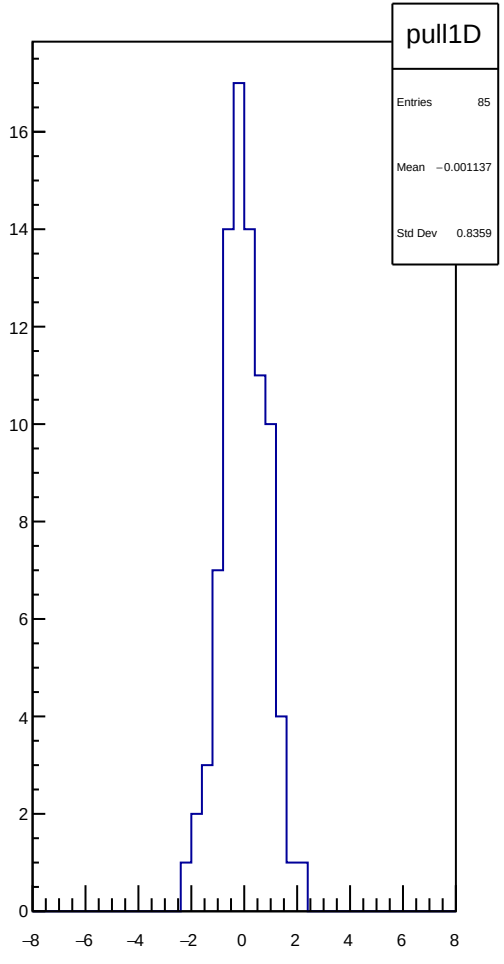

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 4628 / 84
p0 76.76 ± 0.05998
95
90
85
80
75
70

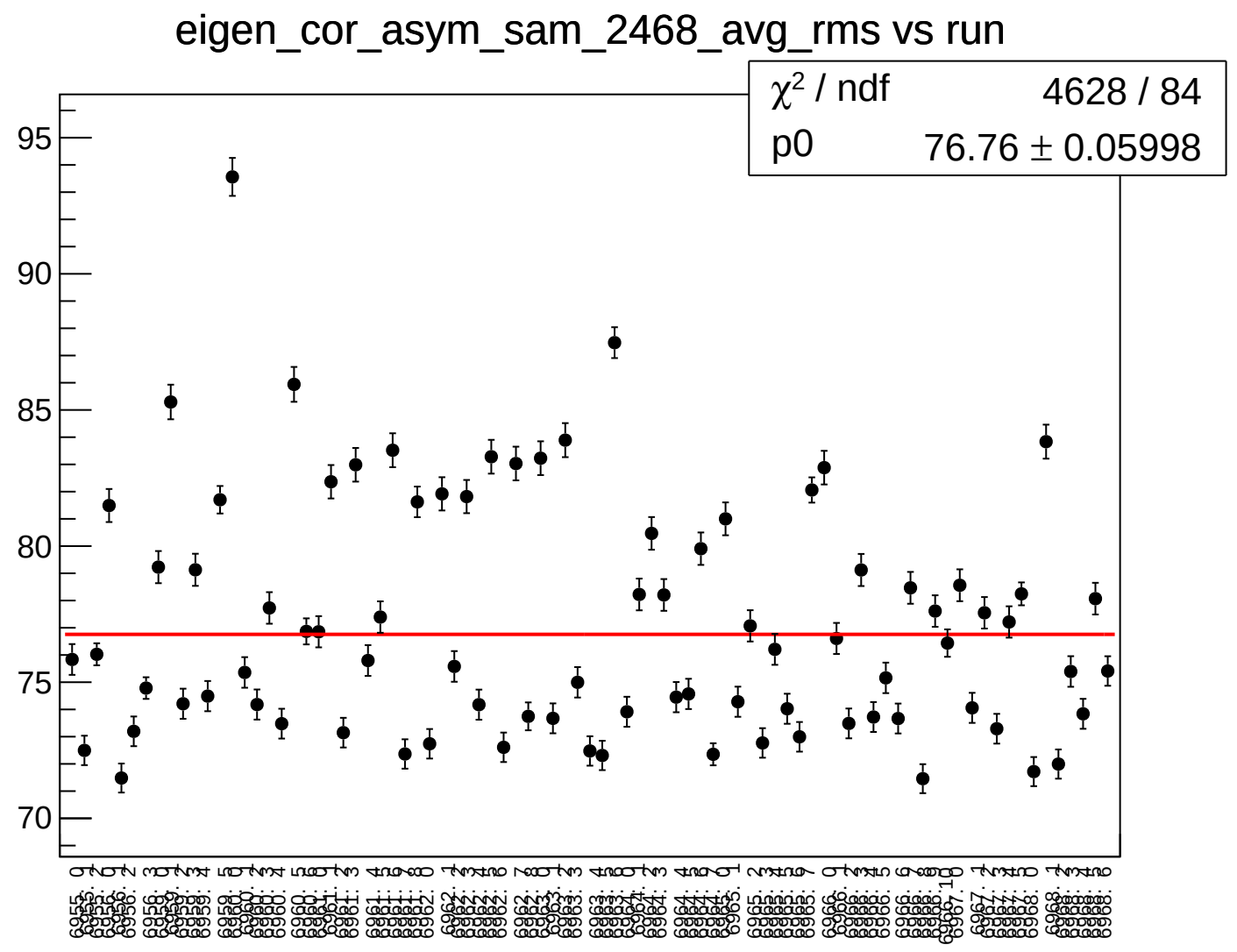

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 86.87 / 84
p0 −404 ± 1055
pull
Entries 85
Mean 19.67
Std Dev 30.28

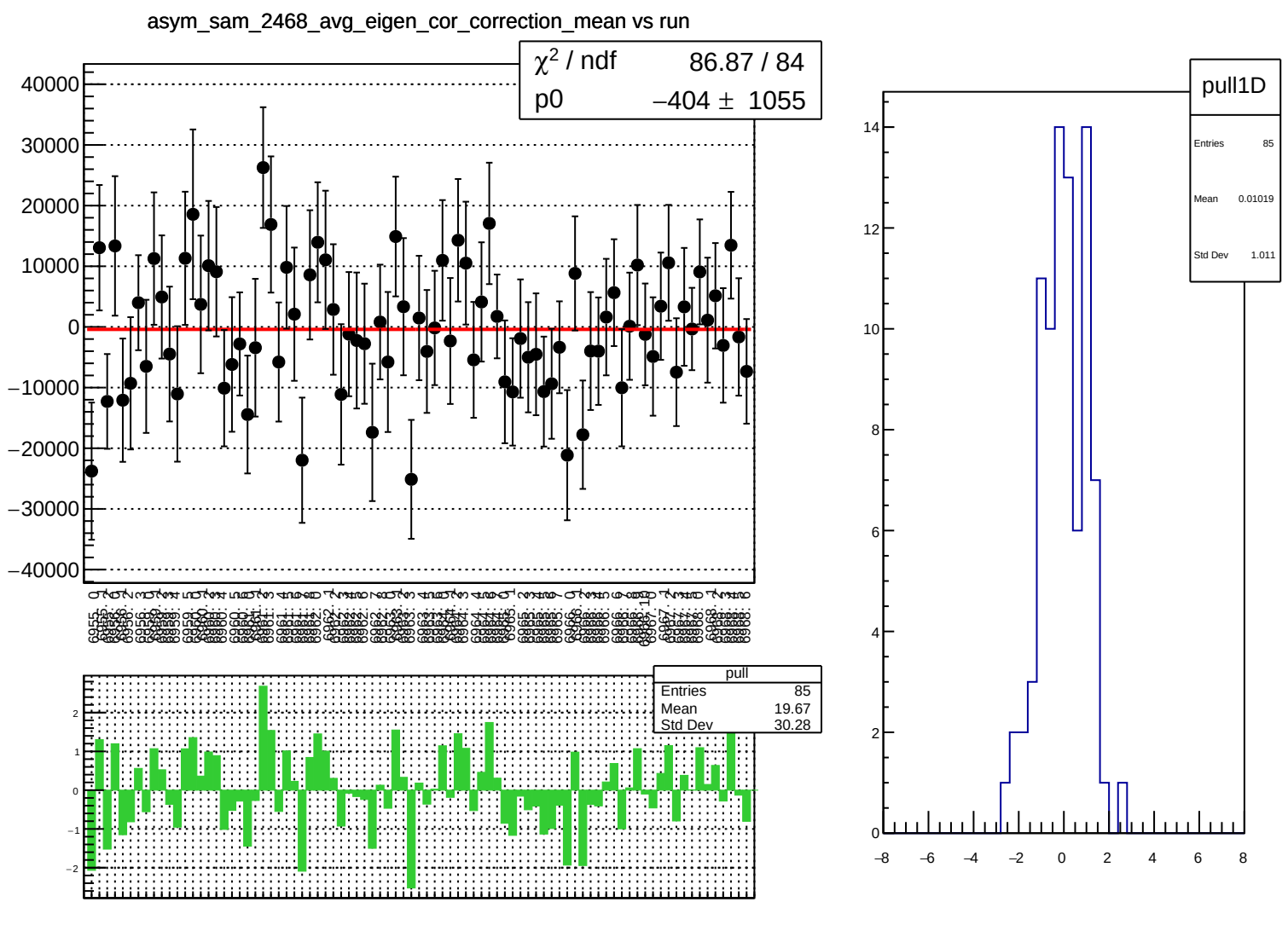

pull1D
Entries 85
Mean 0.01019
Std Dev 1.011

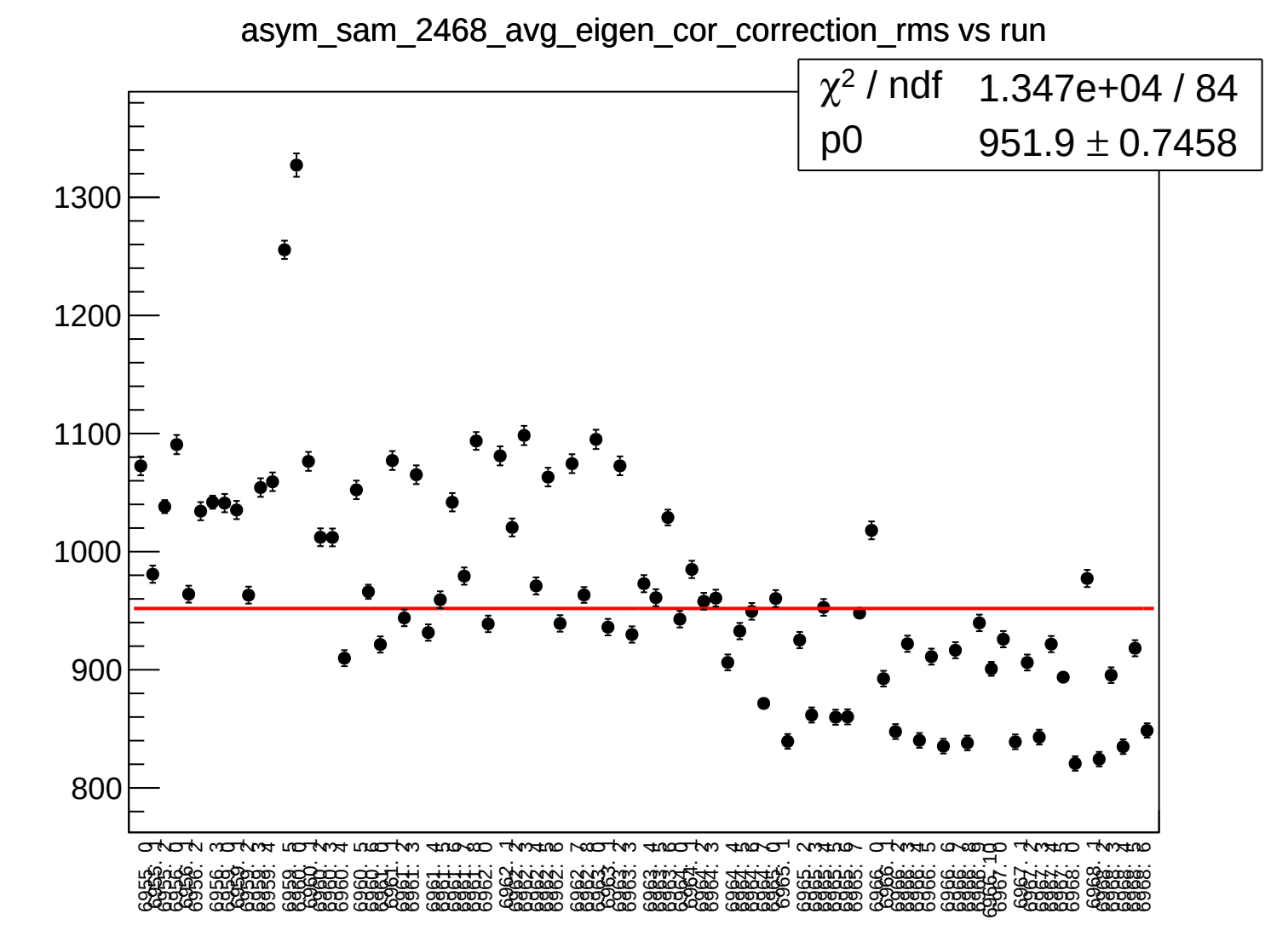

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.347e+04 / 84
p0 951.9 ± 0.7458
1300
1200
1100
1000
900
800

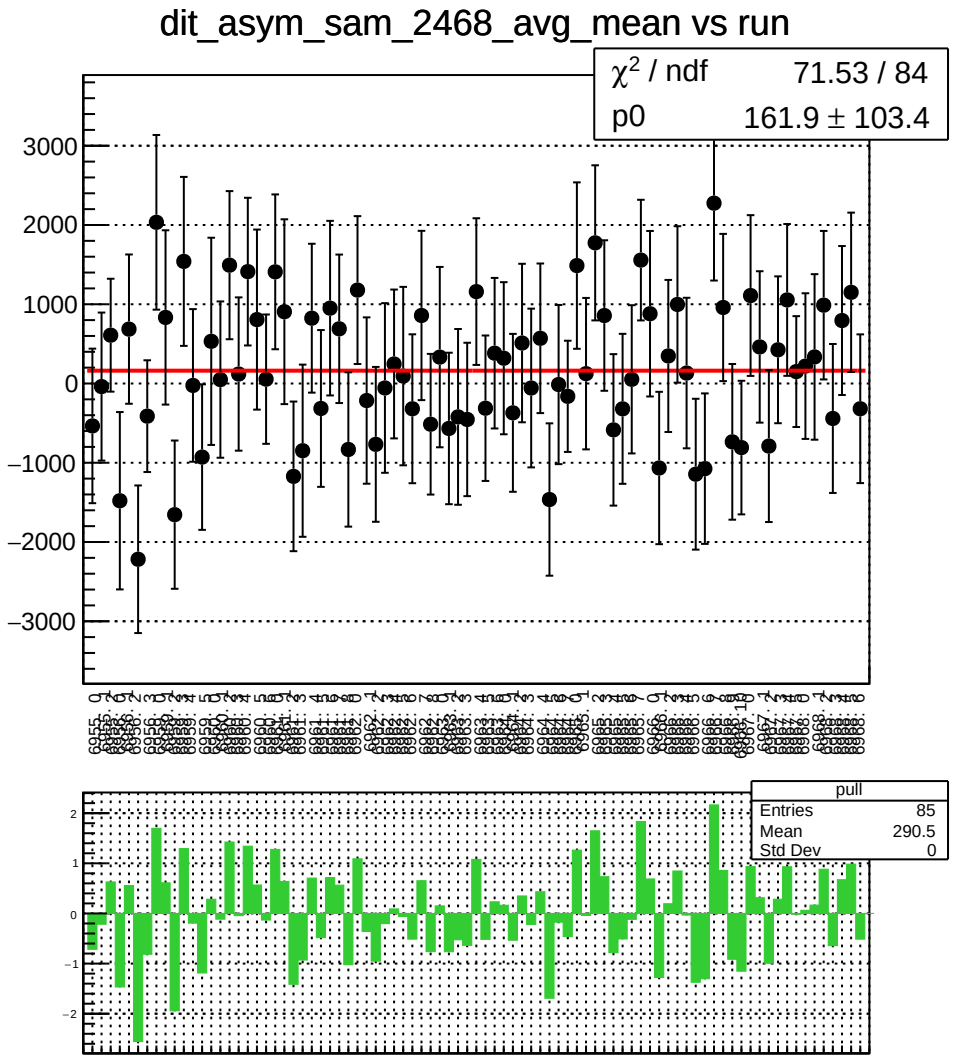

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 59.39 / 84
p0 102.3 ± 84.82
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 1231
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

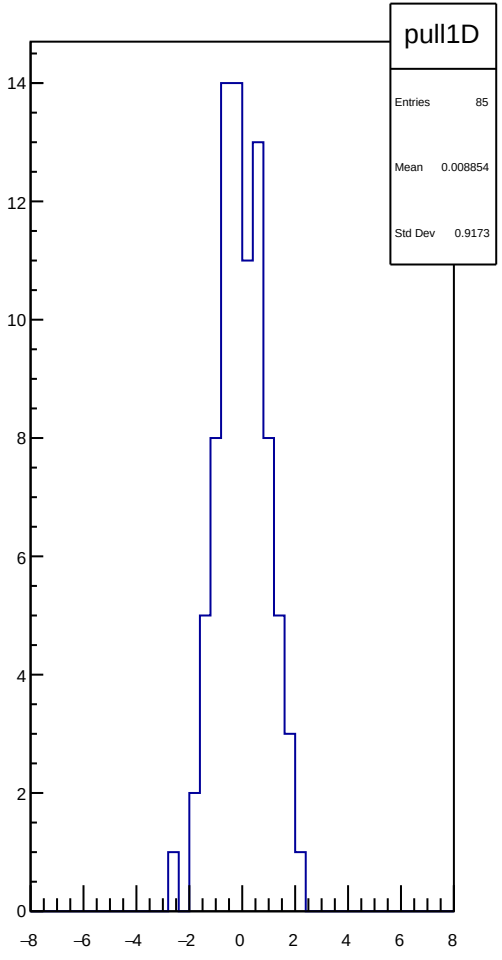

pull1D
Entries 85
Mean −0.001137
Std Dev 0.8359
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

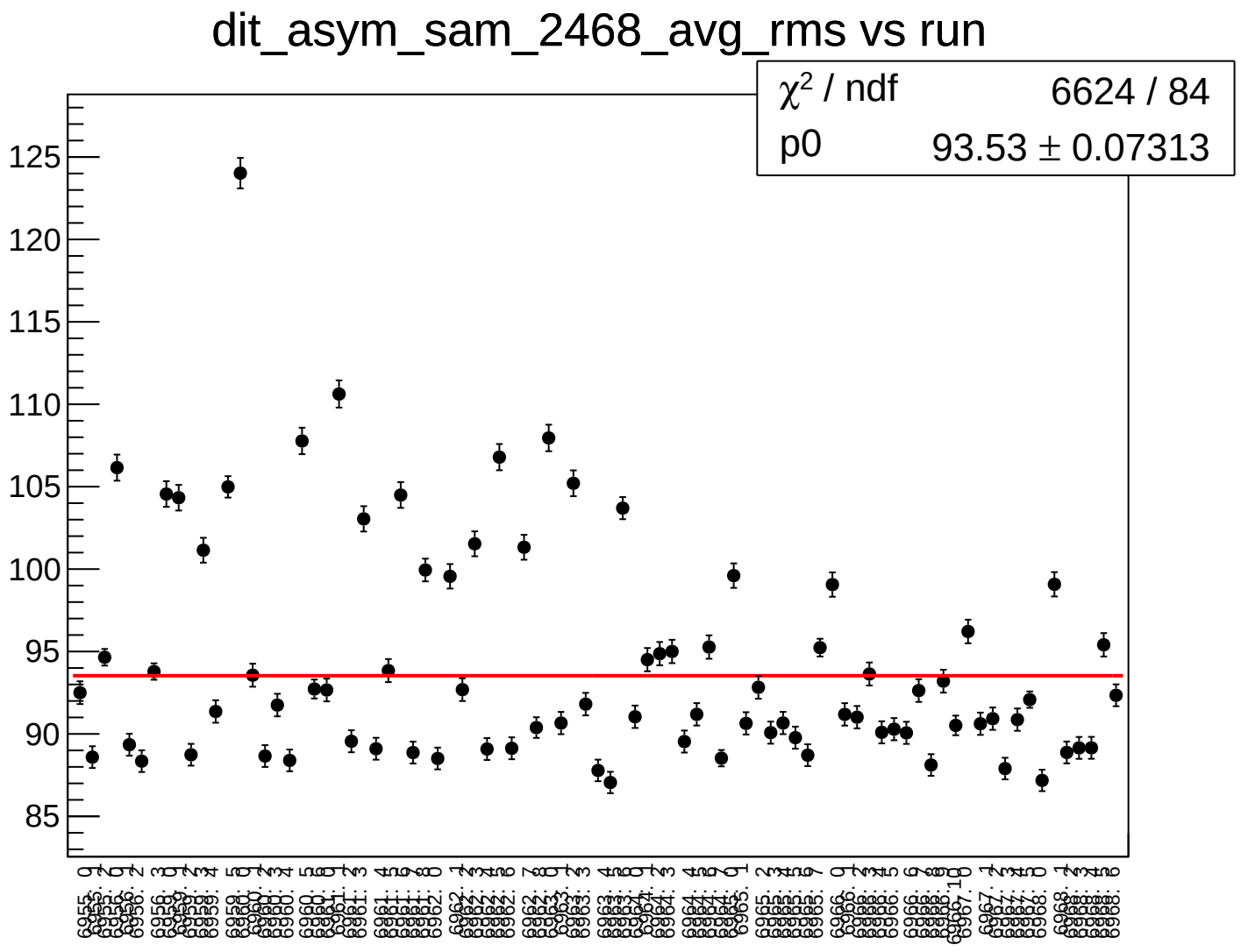

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 4628 / 84
p0 76.76 ± 0.05998
95
90
85
80
75
70

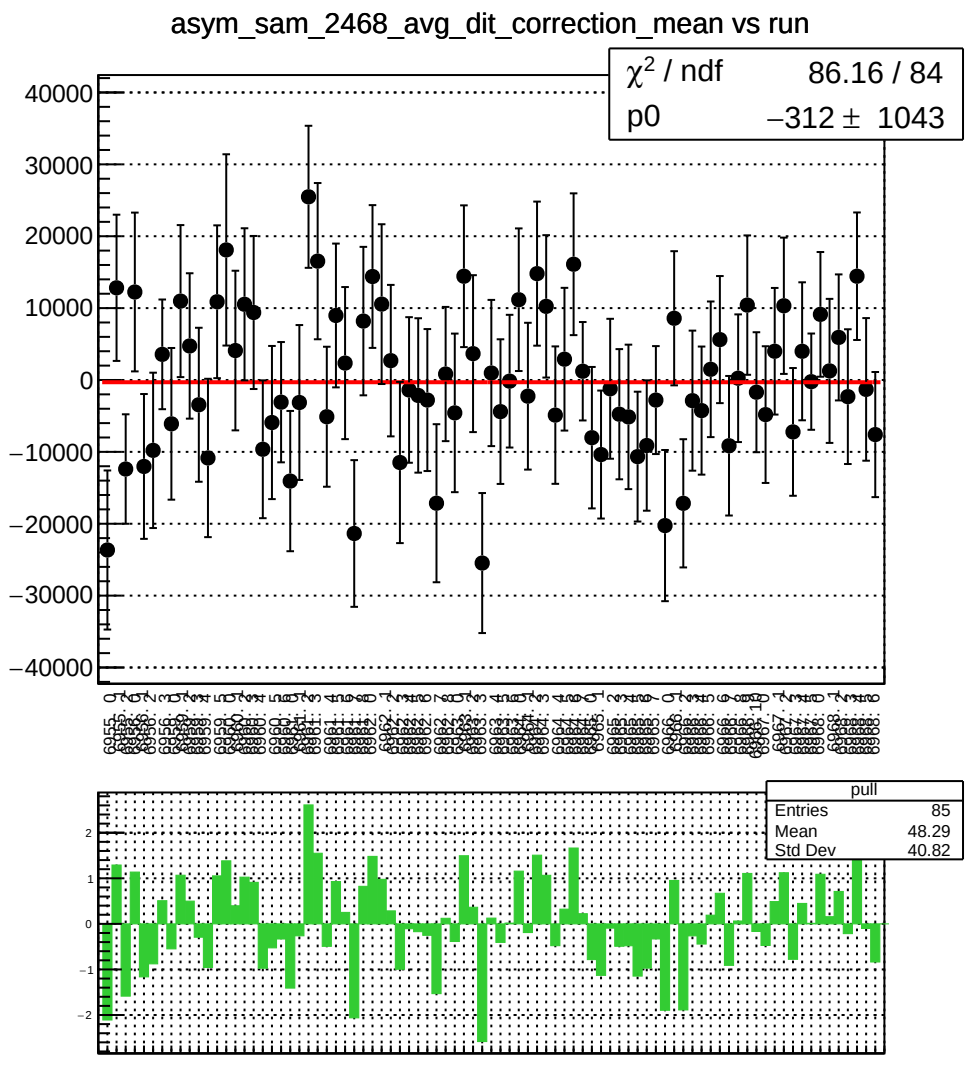

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.87 / 84
p0 −404 ± 1055
pull
Entries 85
Mean 19.67
Std Dev 30.28
pull1D
Entries 85
Mean 0.01019
Std Dev 1.011

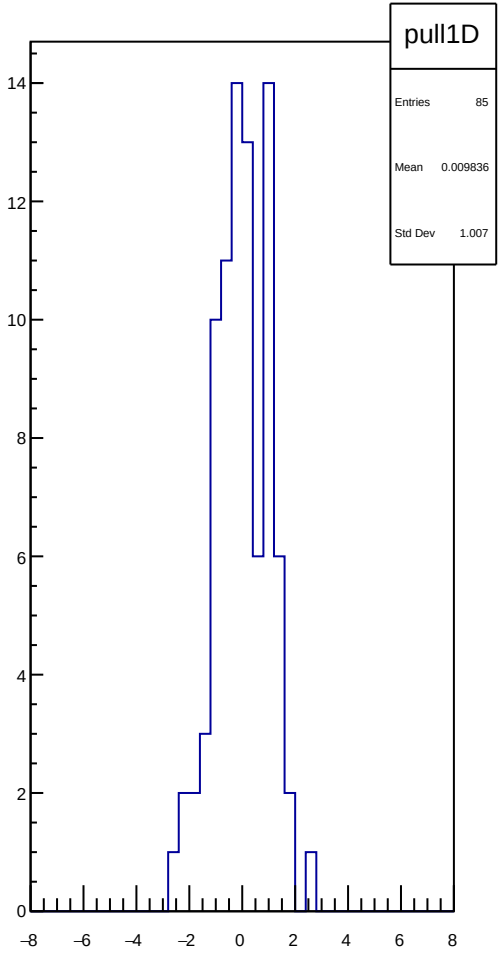

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.347e+04 / 84
p0 951.9 ± 0.7458
1300
1200
1100
1000
900
800

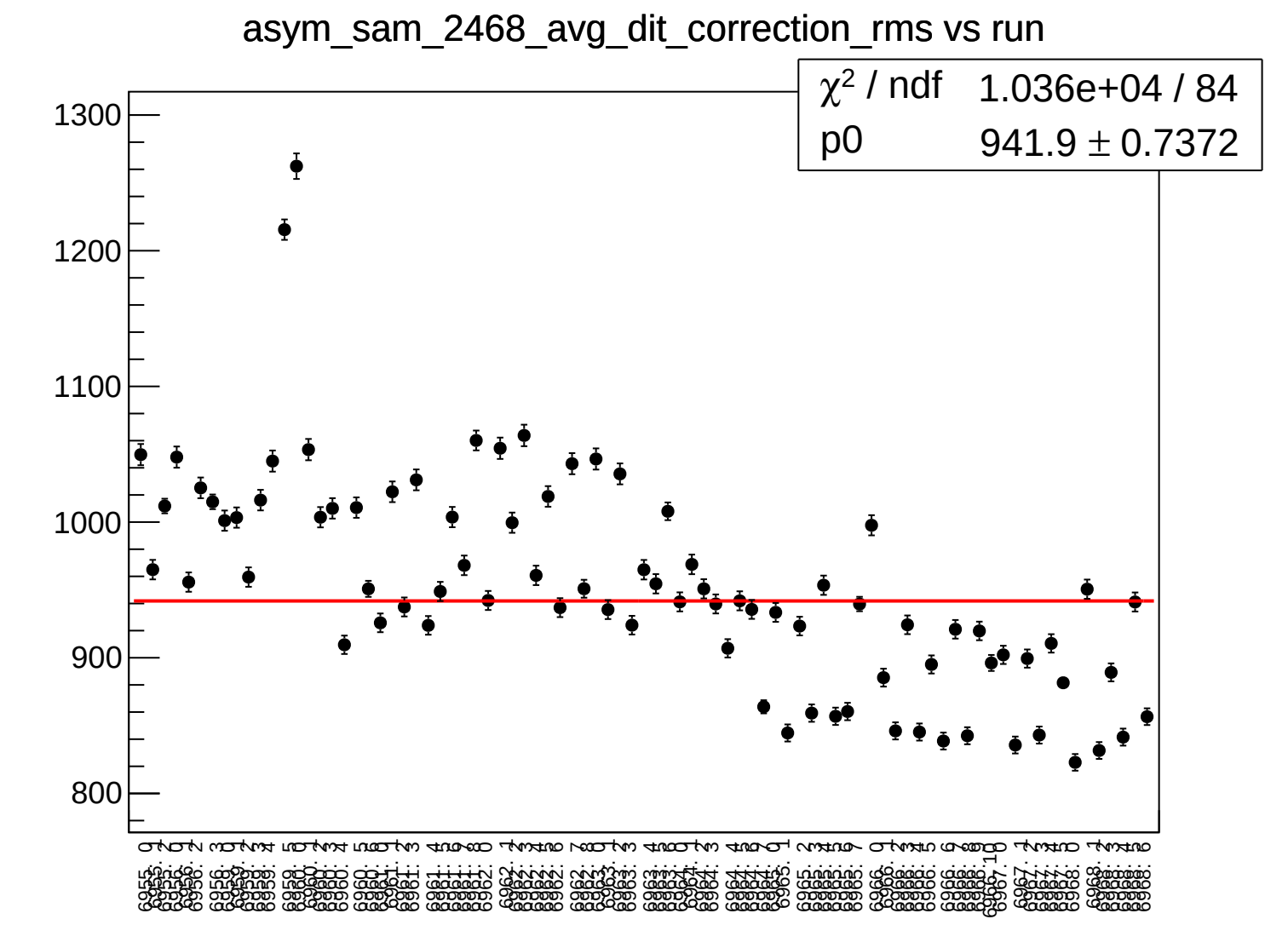

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 71.53 / 84
p0 161.9 ± 103.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 290.5
Std Dev 0
2
1
0
−1
−2

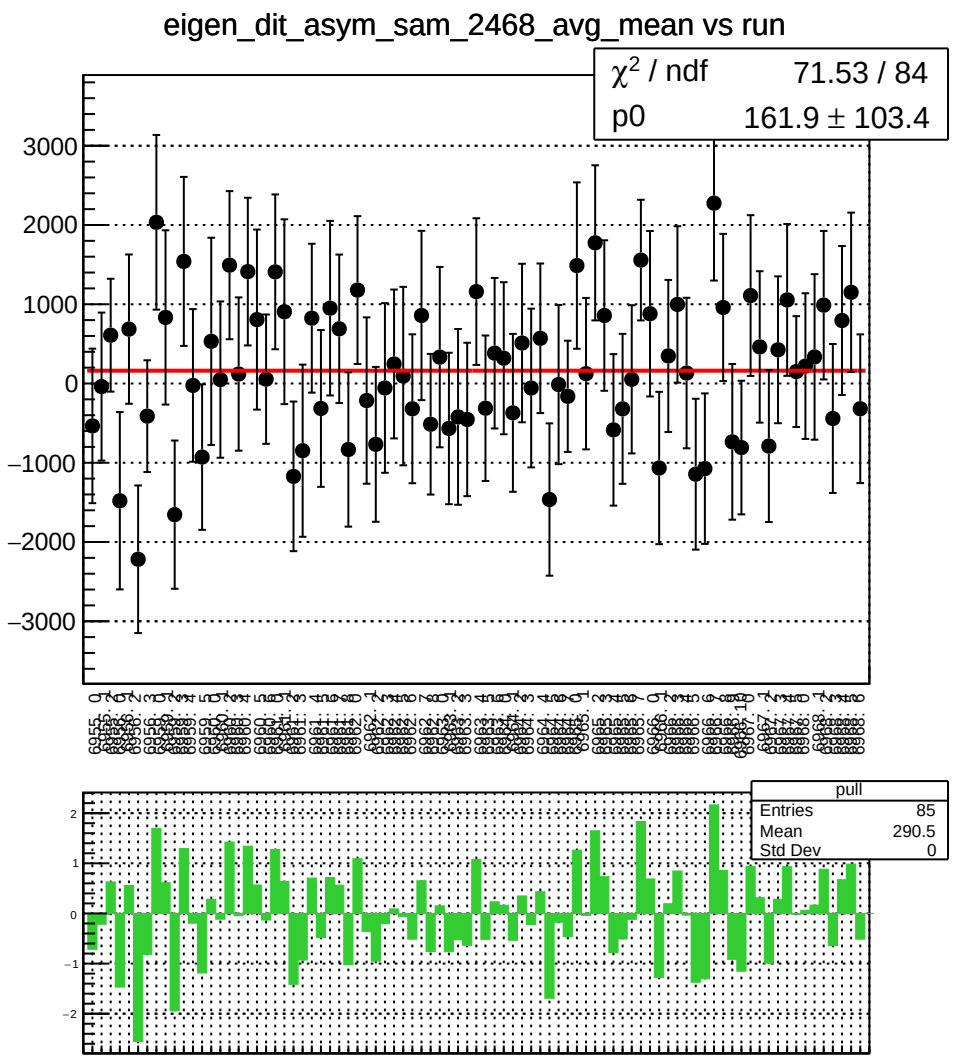

pull1D
Entries 85
Mean 0.008854
Std Dev 0.9173
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

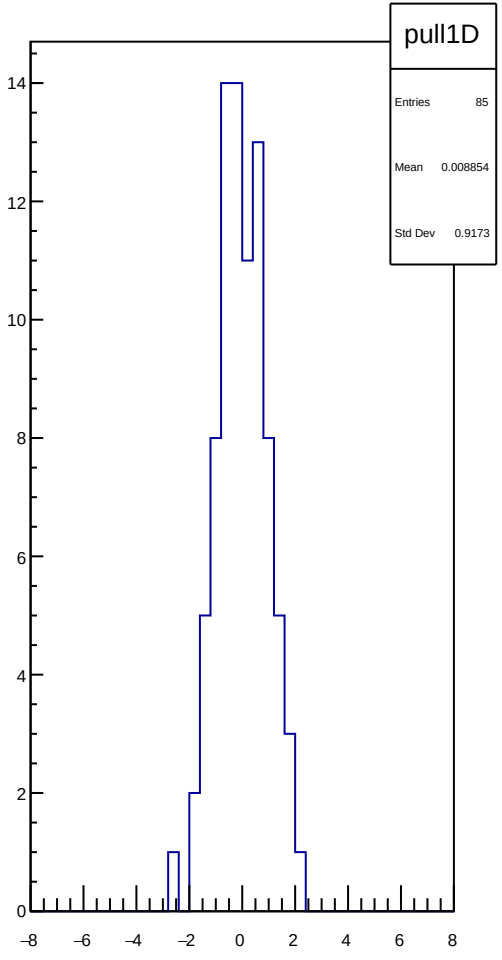

dit_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 6624 / 84
p0 93.53 ± 0.07313
125
120
115
110
105
100
95
90
85

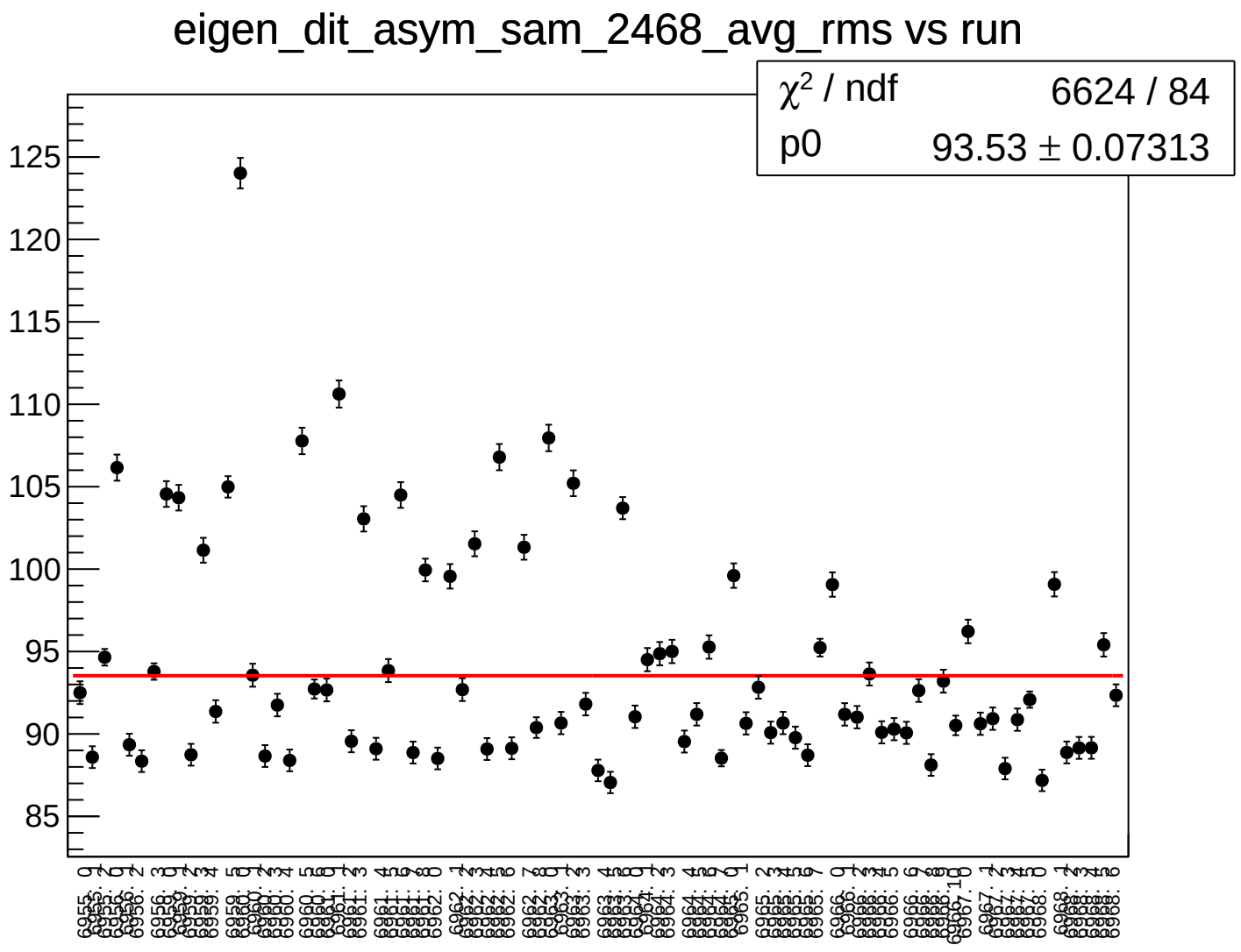

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 86.16 / 84
p0 −312 ± 1043
pull
Entries 85
Mean 48.29
Std Dev 40.82

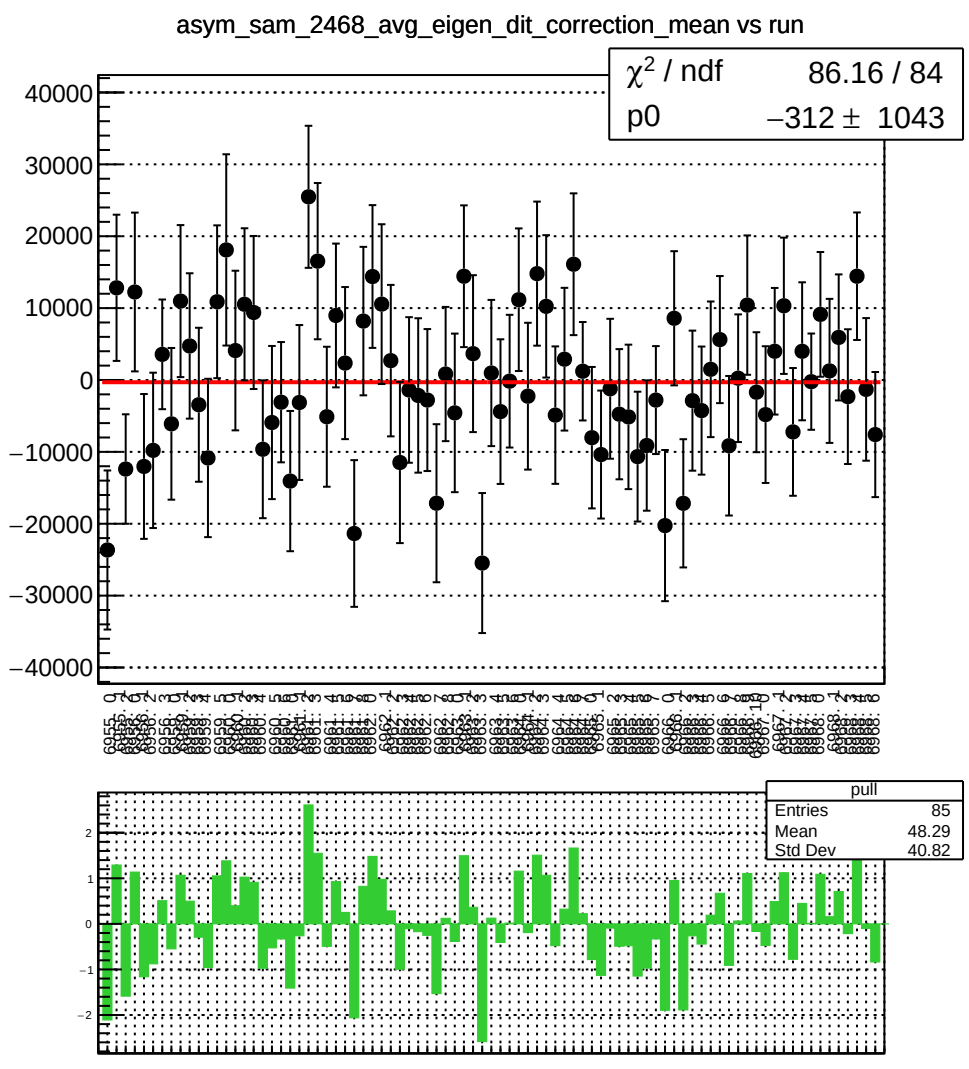

pull1D
Entries 85
Mean 0.009836
Std Dev 1.007

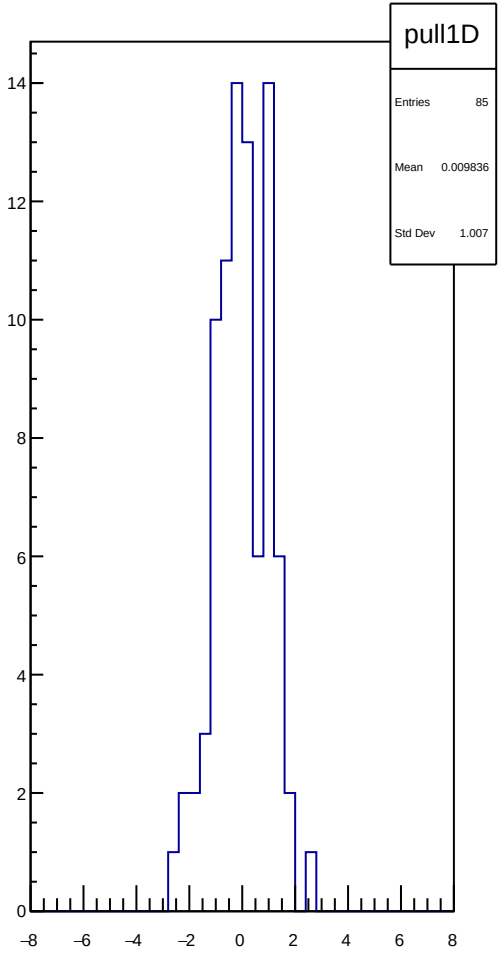

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.036e+04 / 84
p0 941.9 ± 0.7372
1300
1200
1100
1000
900
800

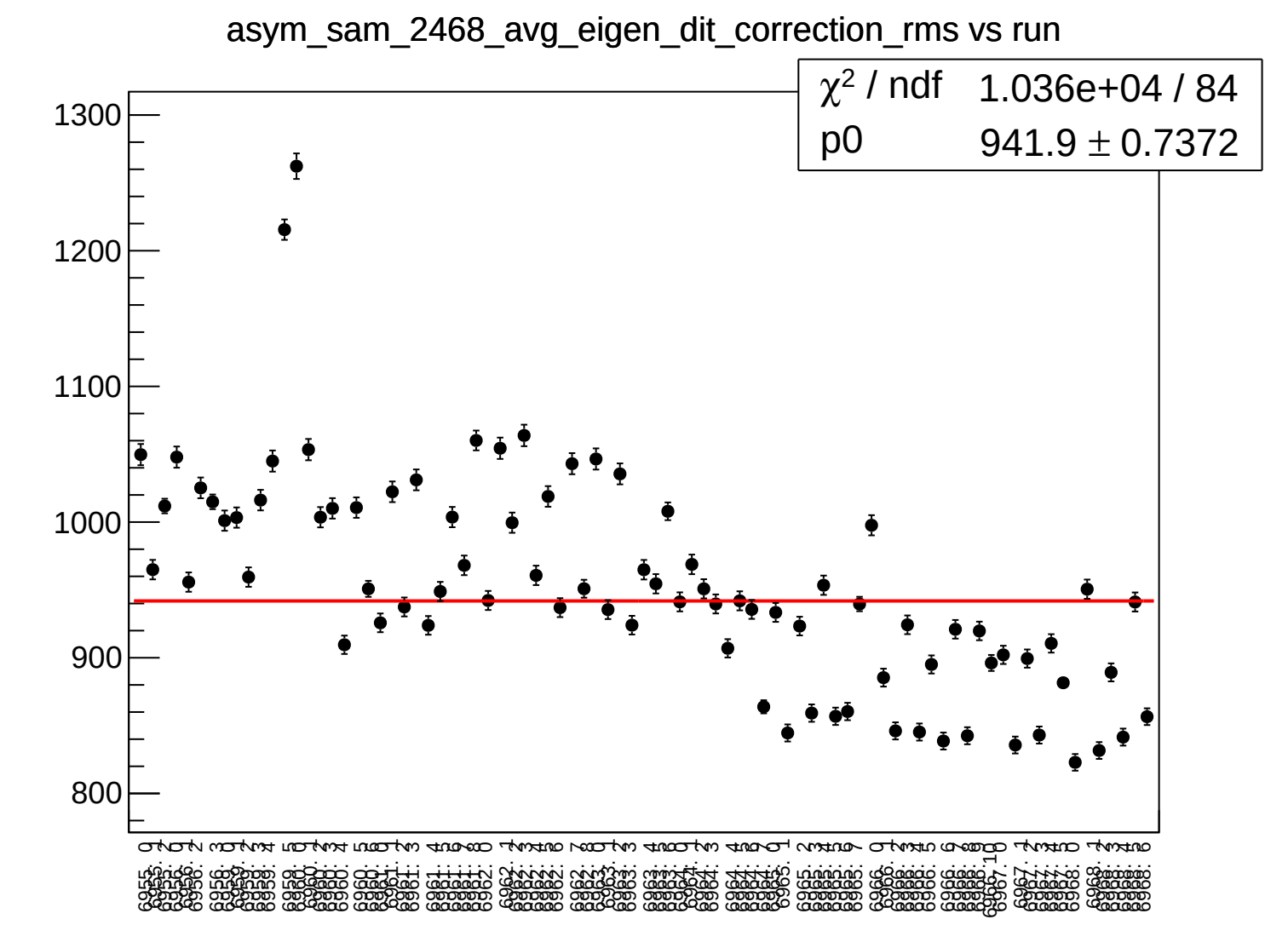

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 71.53 / 84
p0 161.9 ± 103.4
pull
Entries 85
Mean 290.5
Std Dev 0

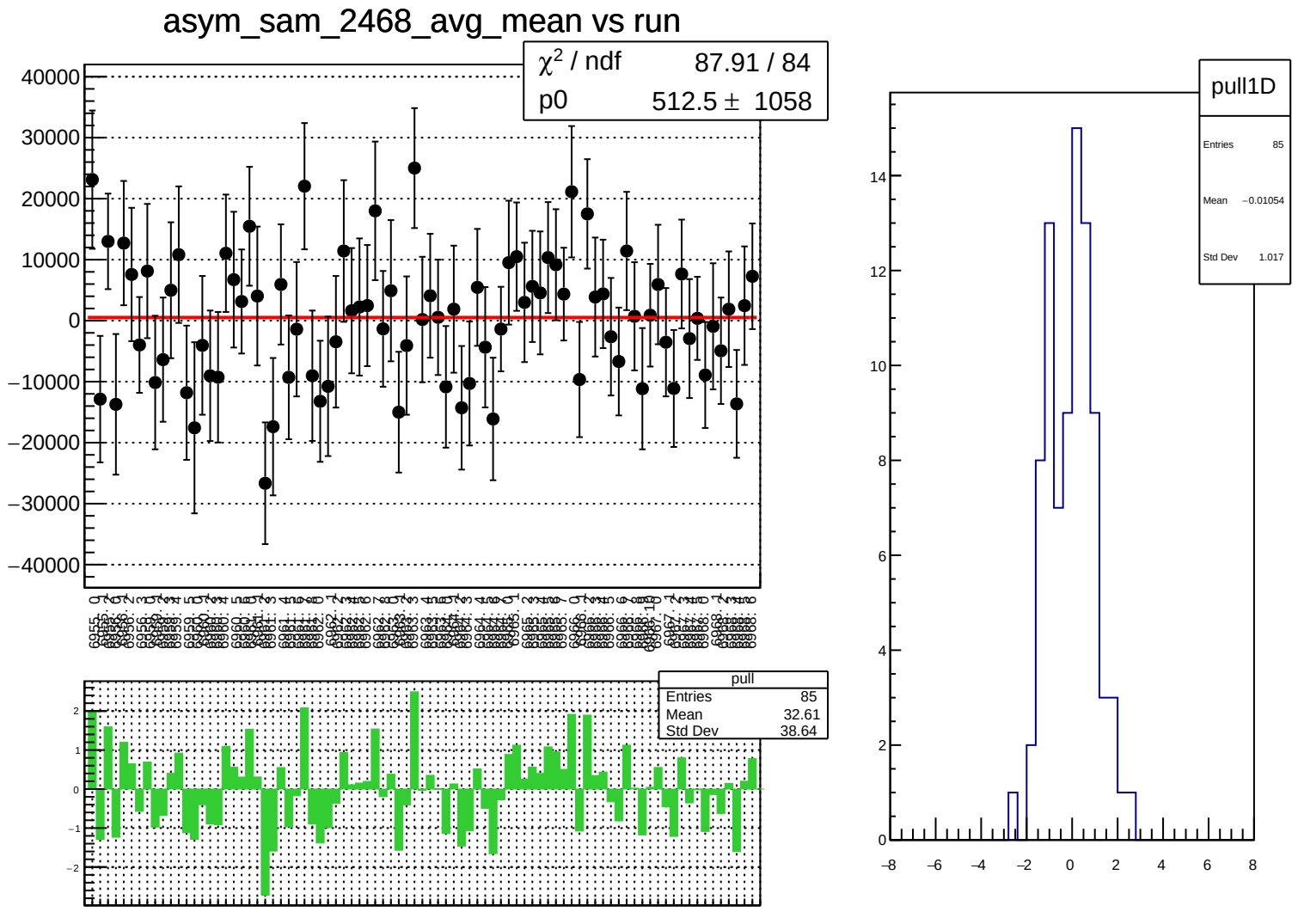

pull1D
Entries 85
Mean 0.008854
Std Dev 0.9173

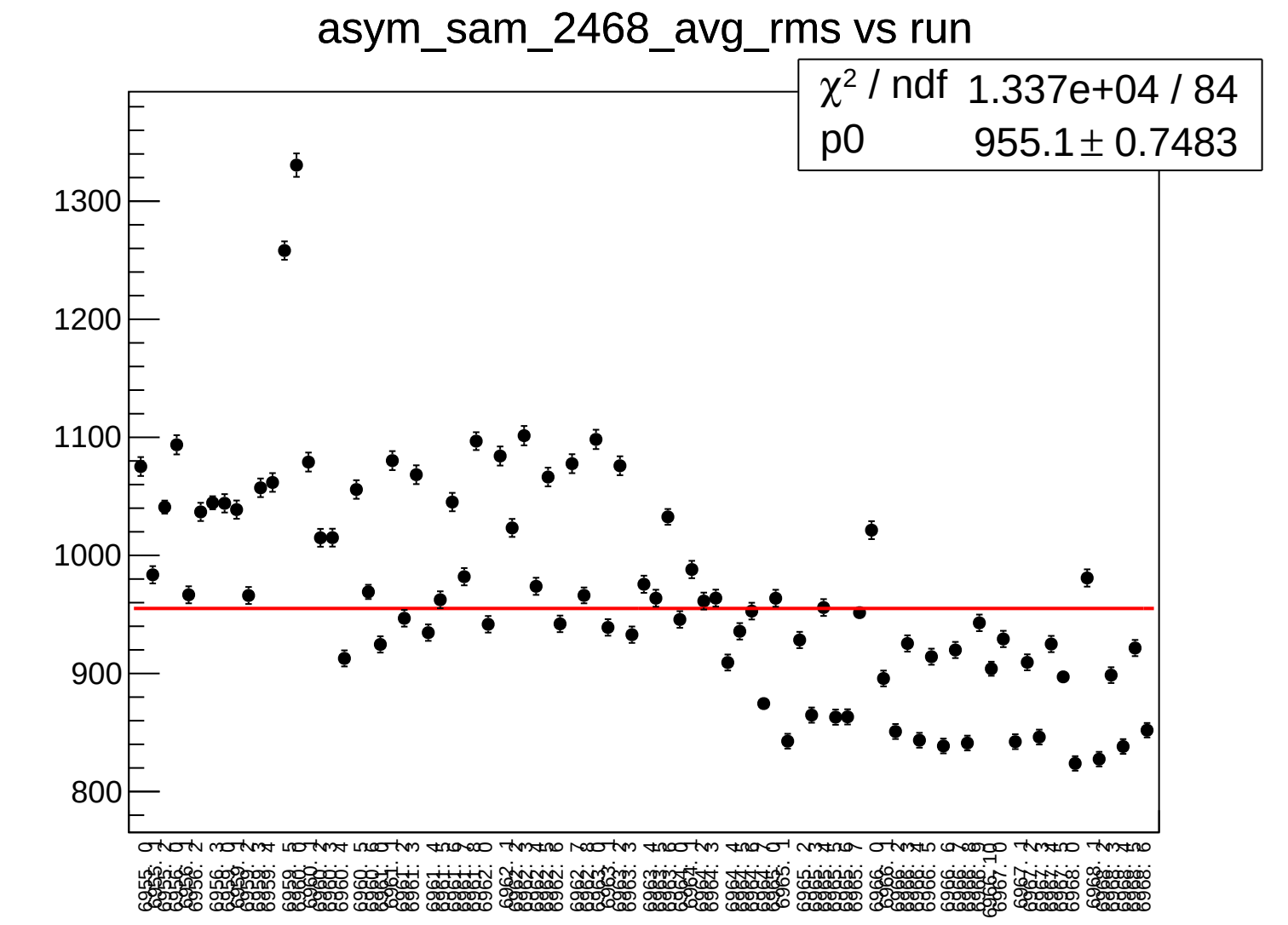

eigen_dit_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 6624 / 84
p0 93.53 ± 0.07313
125
120
115
110
105
100
95
90
85

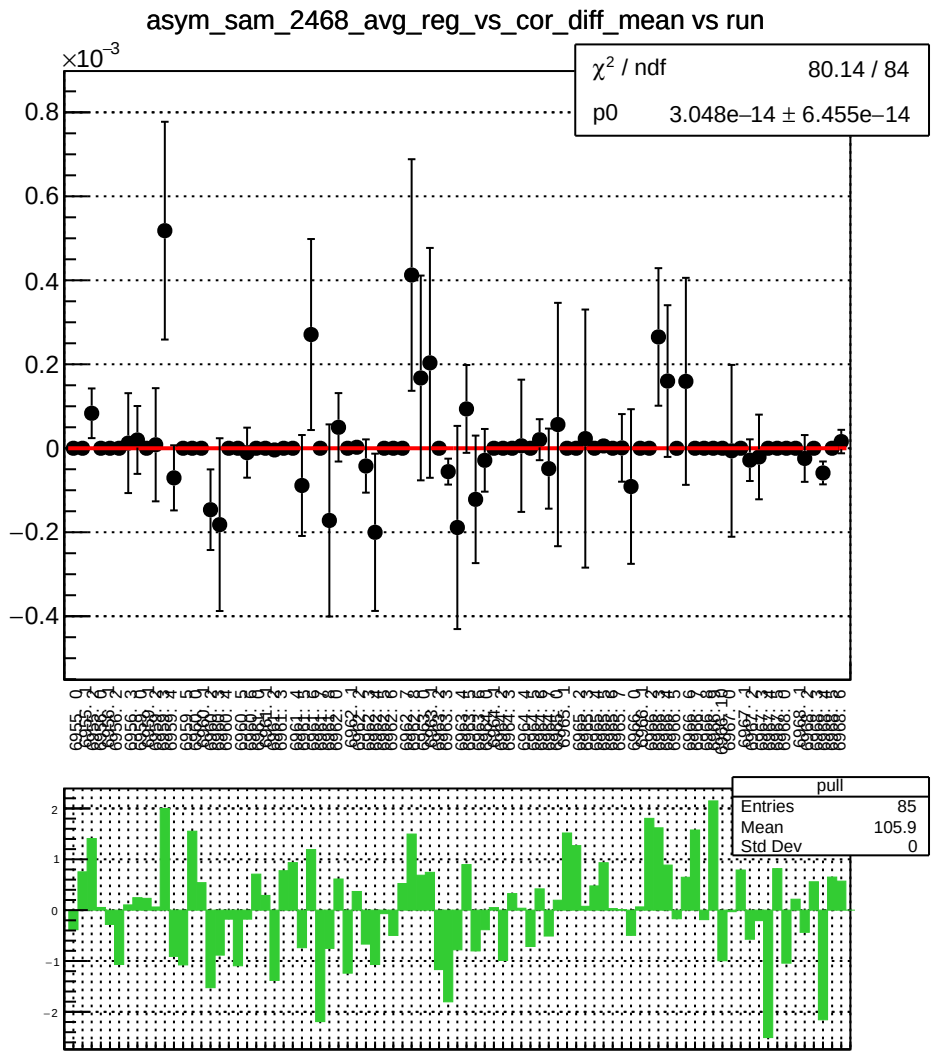

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.16 / 84
p0 −312 ± 1043
pull
Entries 85
Mean 48.29
Std Dev 40.82

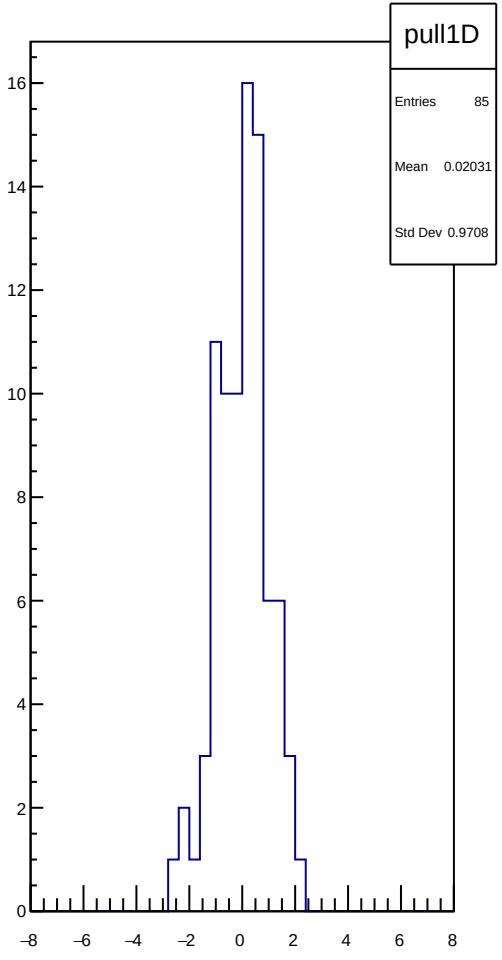

pull1D
Entries 85
Mean 0.009836
Std Dev 1.007

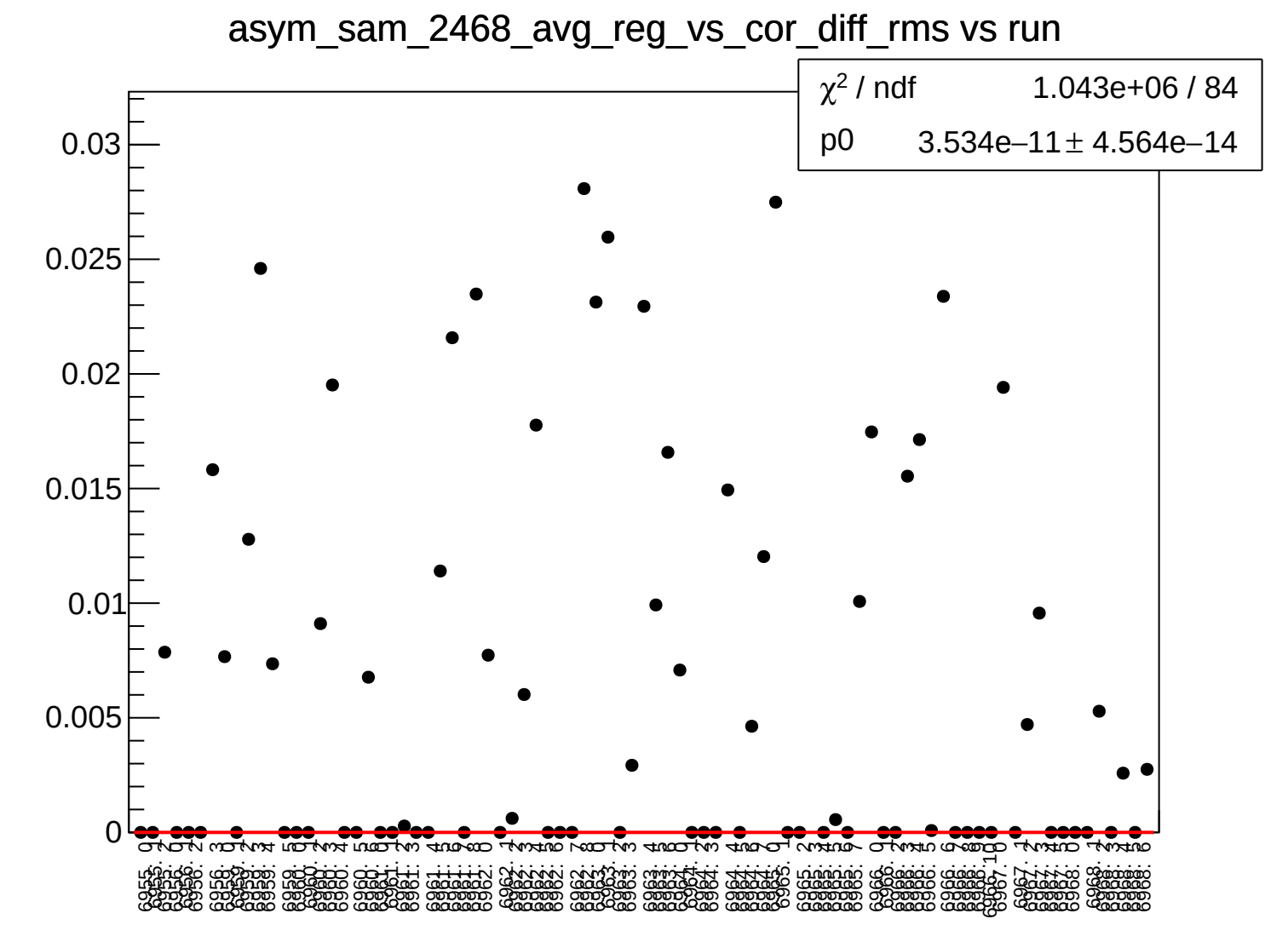

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.036e+04 / 84
p0 941.9 ± 0.7372
1300
1200
1100
1000
900
800

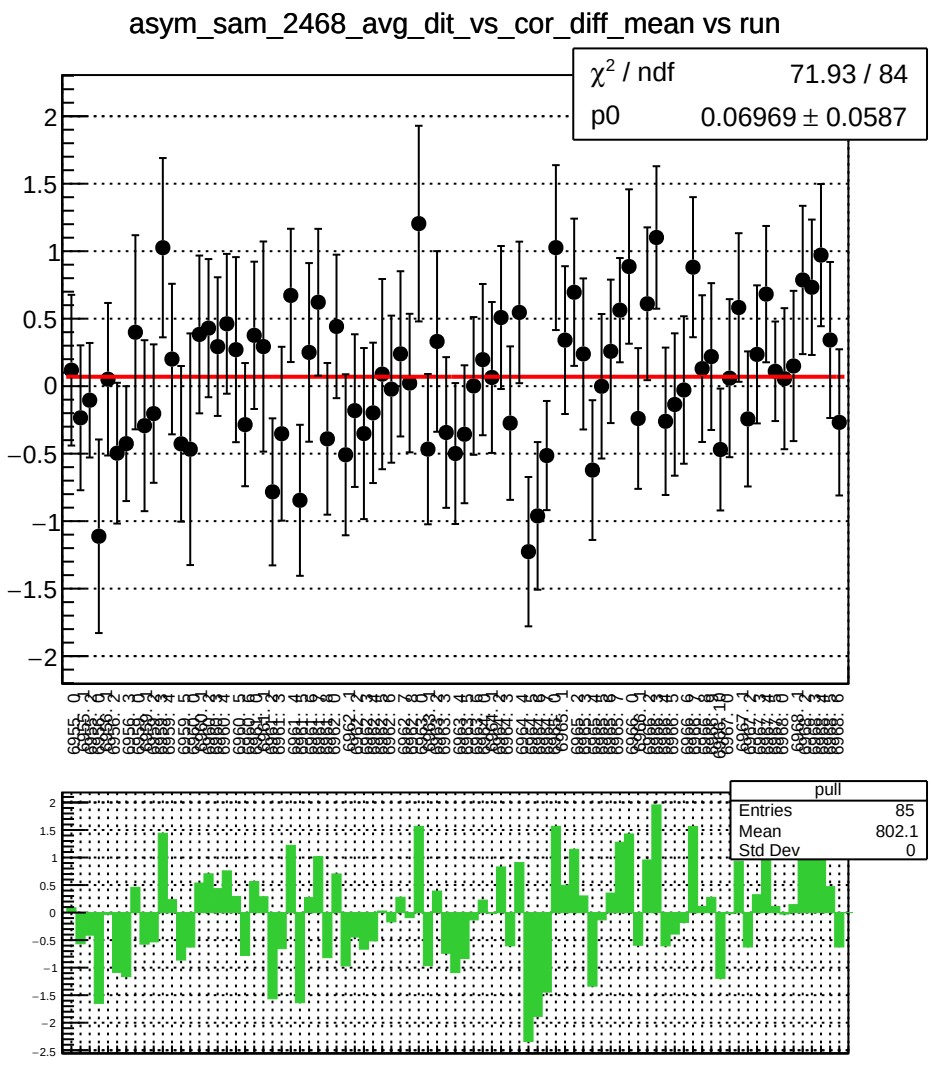

asym_sam_2468_avg_mean vs run
χ² / ndf 87.91 / 84
p0 512.5 ± 1058
pull
Entries 85
Mean 32.61
Std Dev 38.64
pull1D
Entries 85
Mean −0.01054
Std Dev 1.017

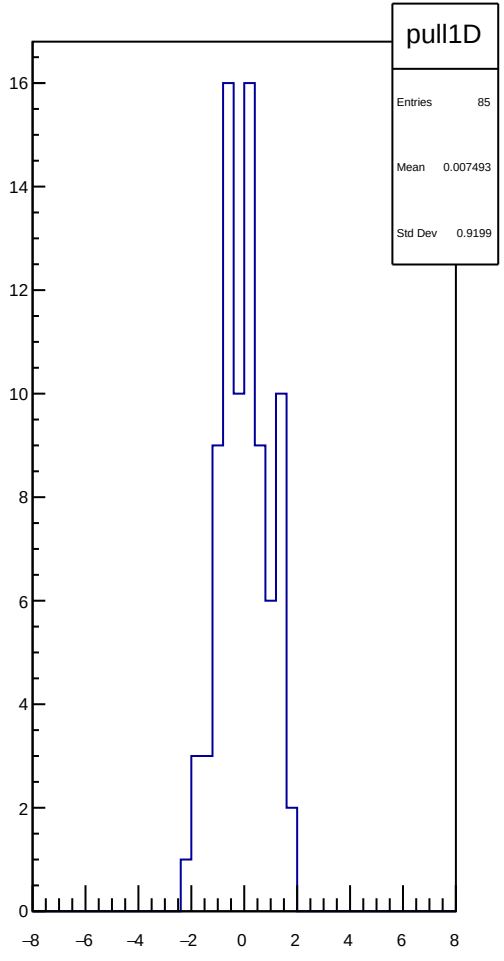

asym_sam_2468_avg_rms vs run
χ² / ndf 1.337e+04 / 84
p0 955.1 ± 0.7483
1300
1200
1100
1000
900
800

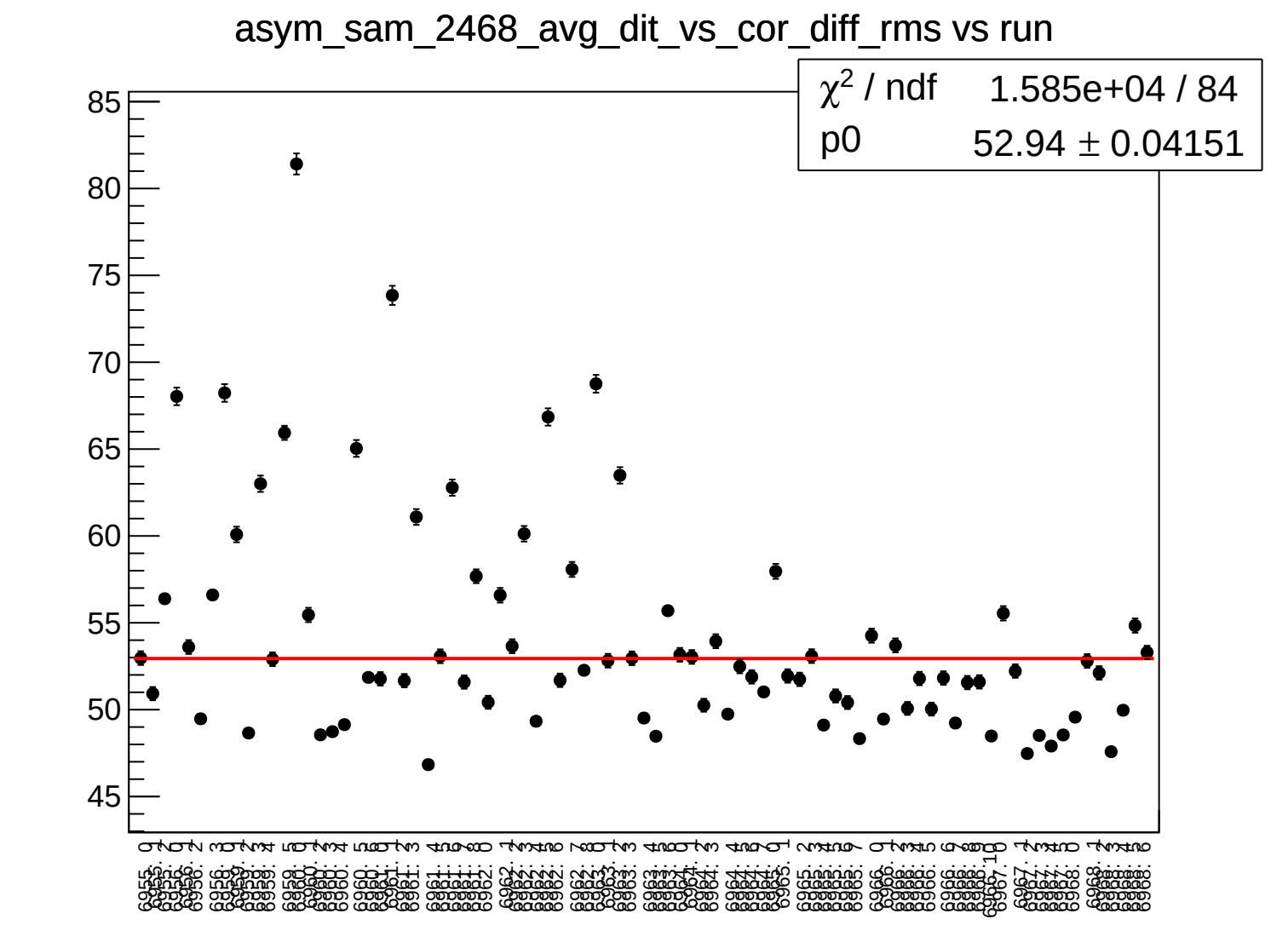

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 80.14 / 84
p0 3.048e−14 ± 6.455e−14
pull
Entries 85
Mean 105.9
Std Dev 0

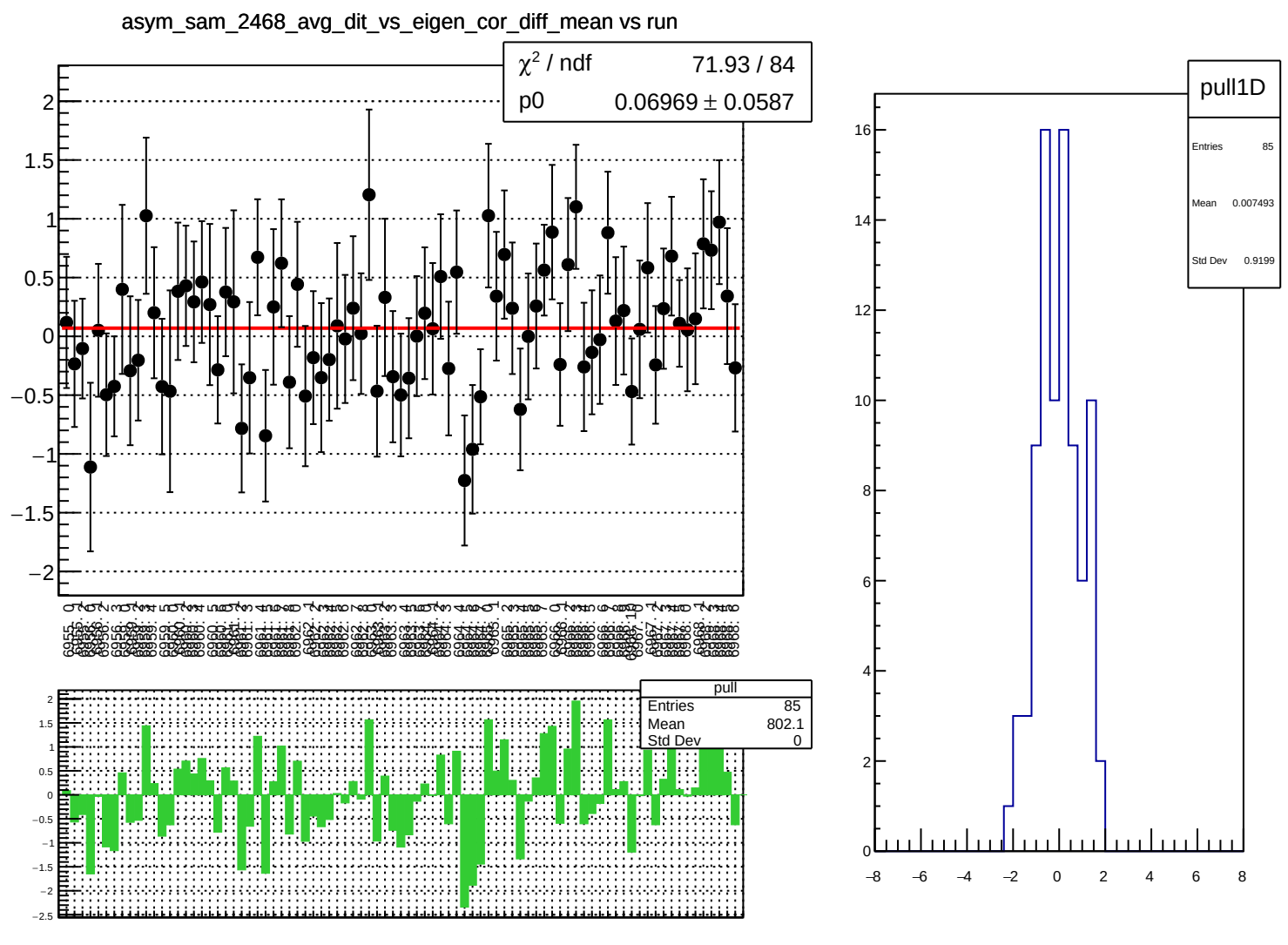

pull1D
Entries 85
Mean 0.02031
Std Dev 0.9708

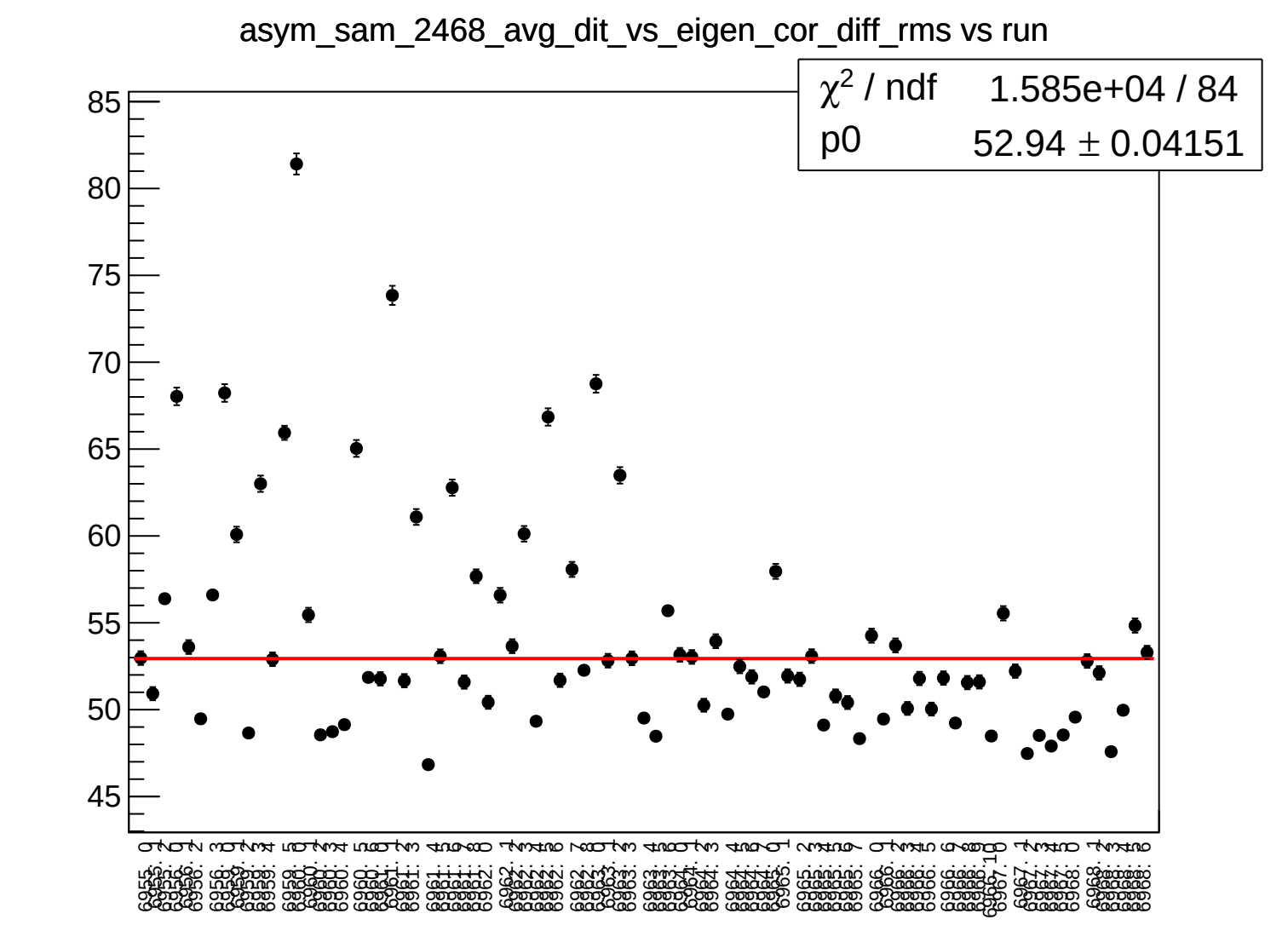

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.043e+06 / 84
p0 3.534e−11 ± 4.564e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

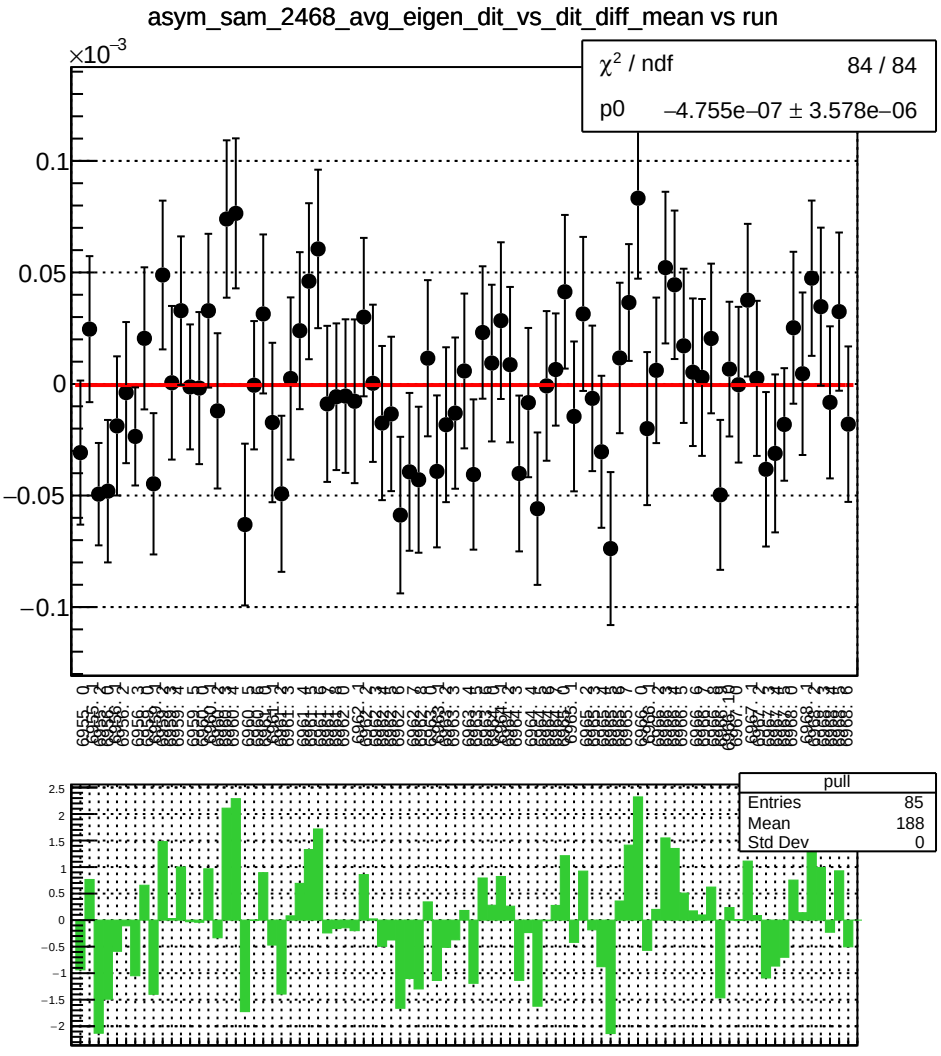

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.93 / 84
p0 0.06969 ± 0.0587
pull
Entries 85
Mean 802.1
Std Dev 0

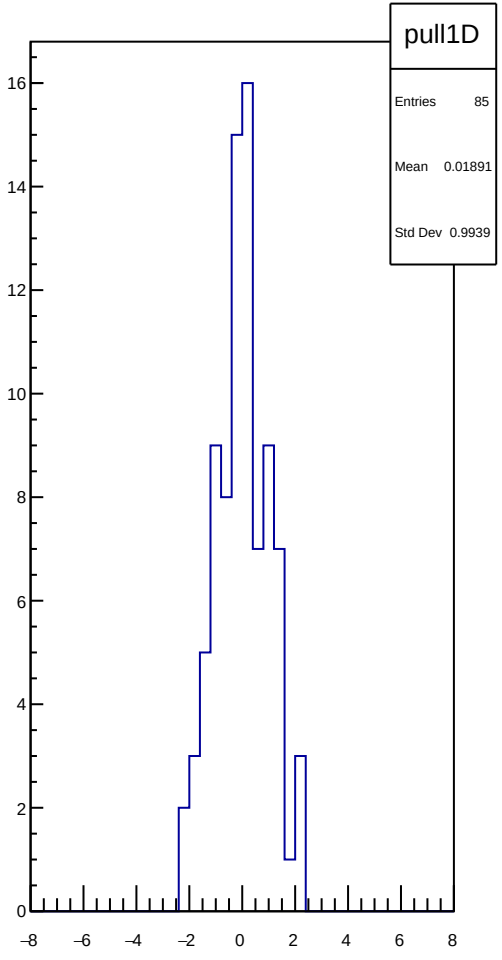

pull1D
Entries 85
Mean 0.007493
Std Dev 0.9199

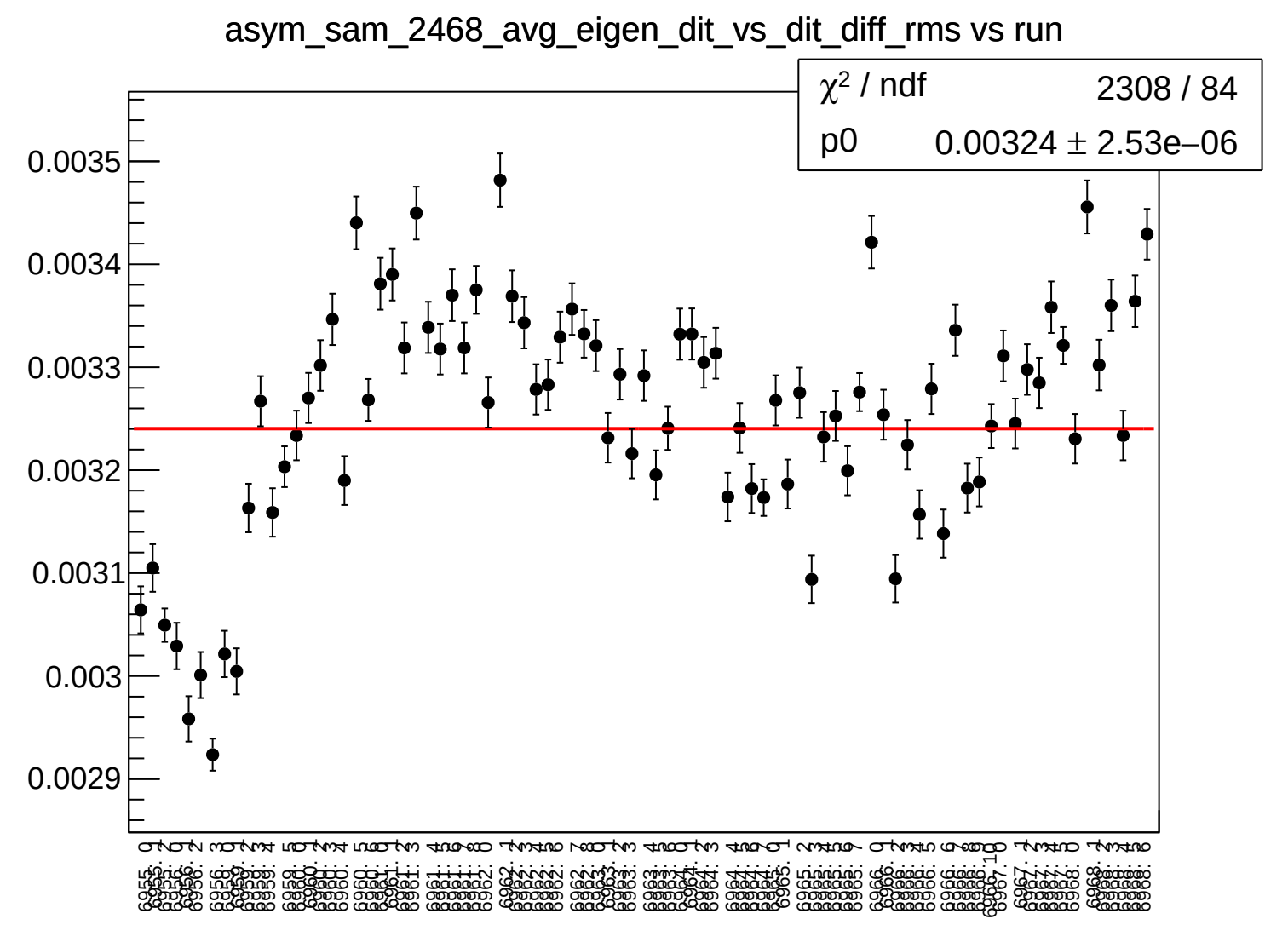

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.585e+04 / 84
p0 52.94 ± 0.04151
85
80
75
70
65
60
55
50
45

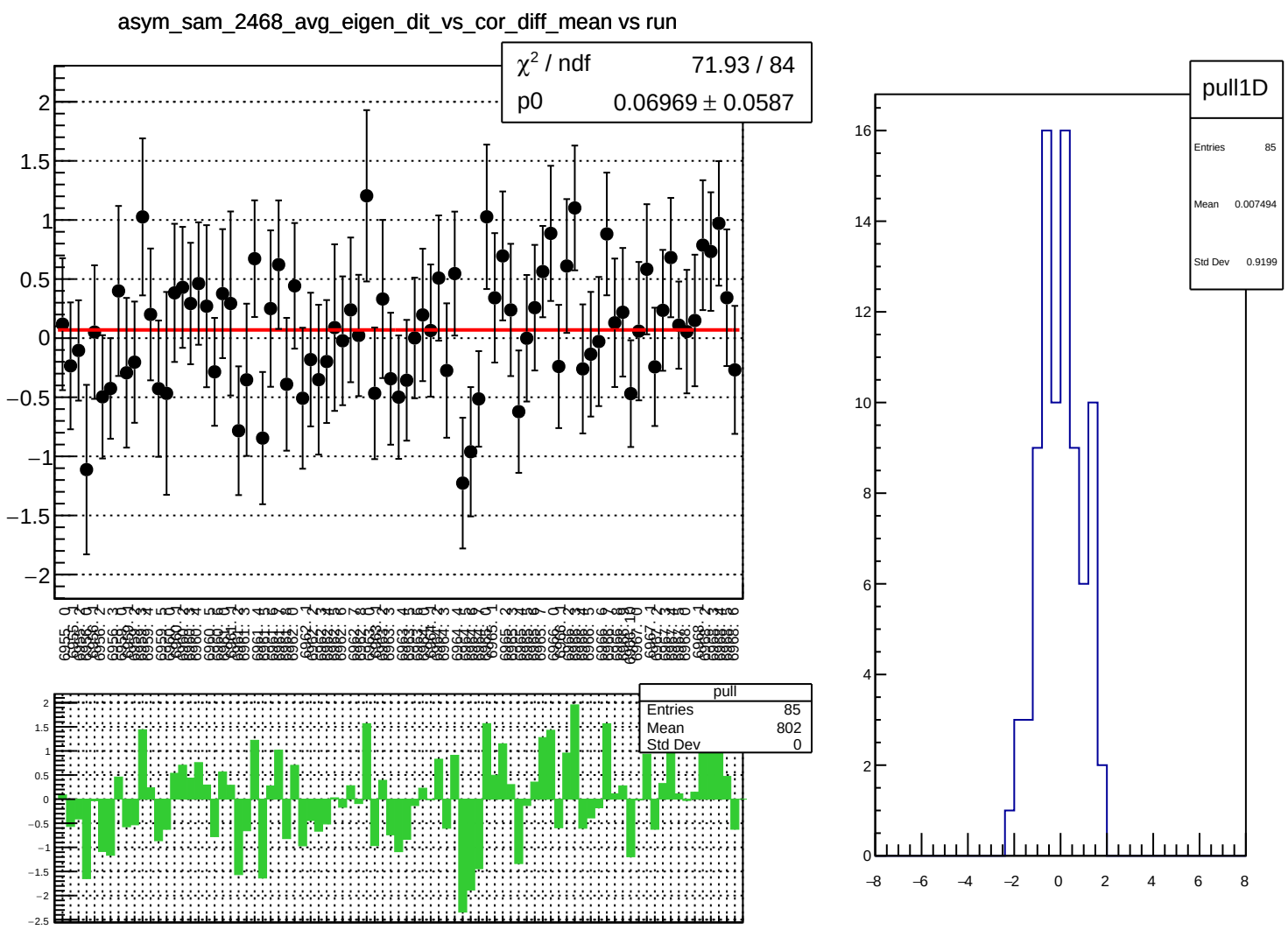

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.93 / 84
p0 0.06969 ± 0.0587
pull
Entries 85
Mean 802.1
Std Dev 0
pull1D
Entries 85
Mean 0.007493
Std Dev 0.9199

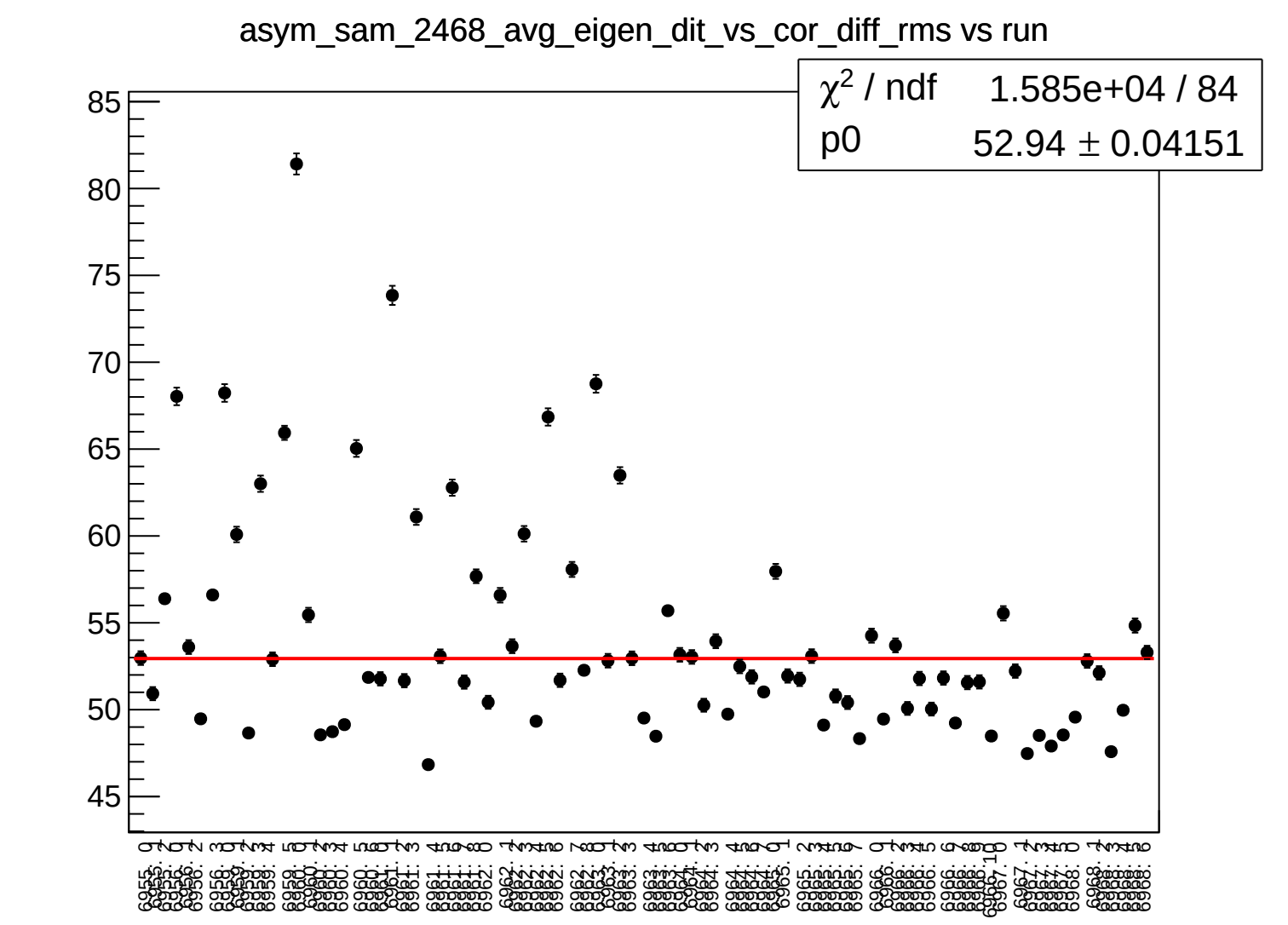

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.585e+04 / 84
p0 52.94 ± 0.04151
85
80
75
70
65
60
55
50
45

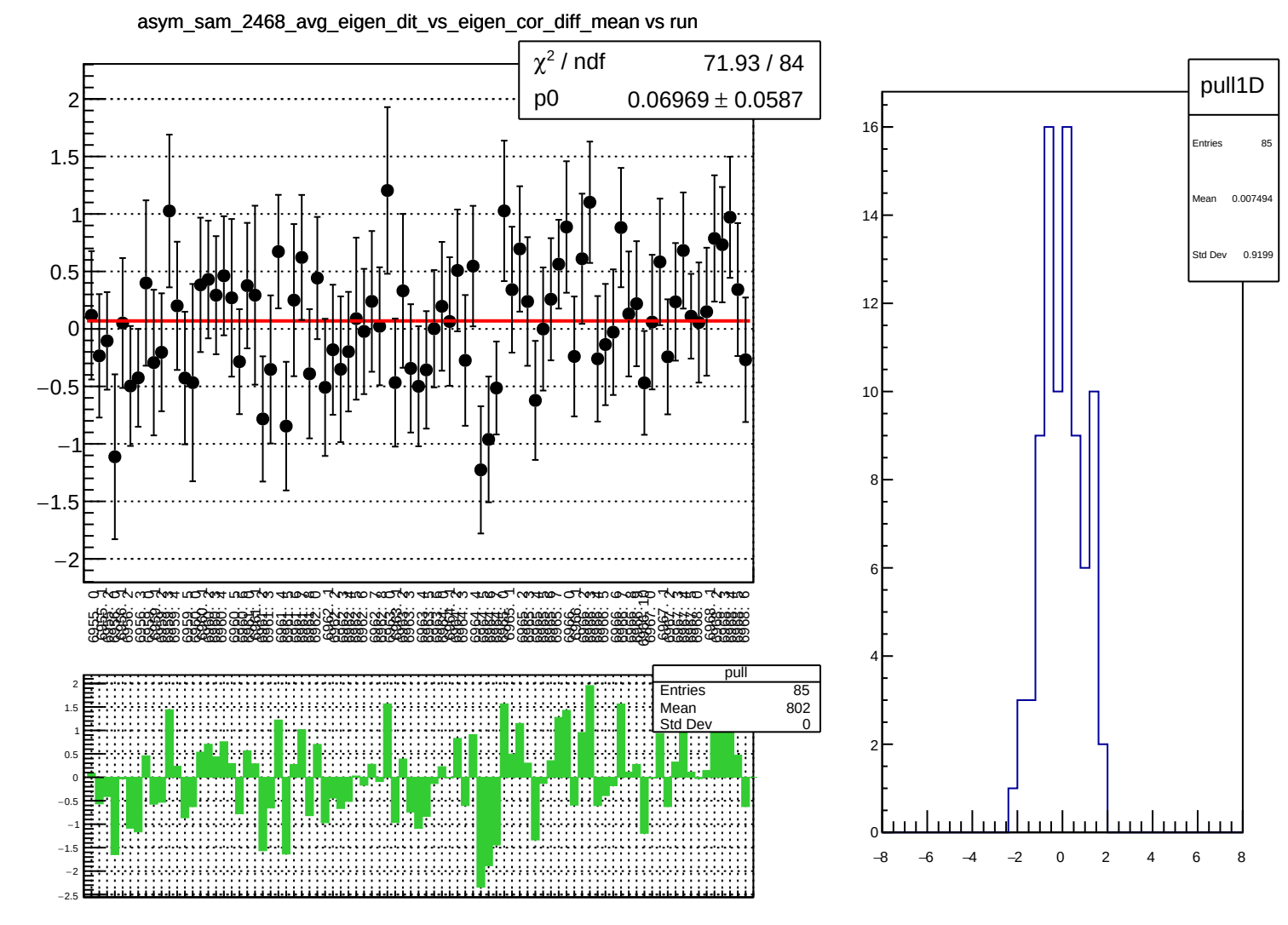

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84 / 84
p0 −4.755e−07 ± 3.578e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 188
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

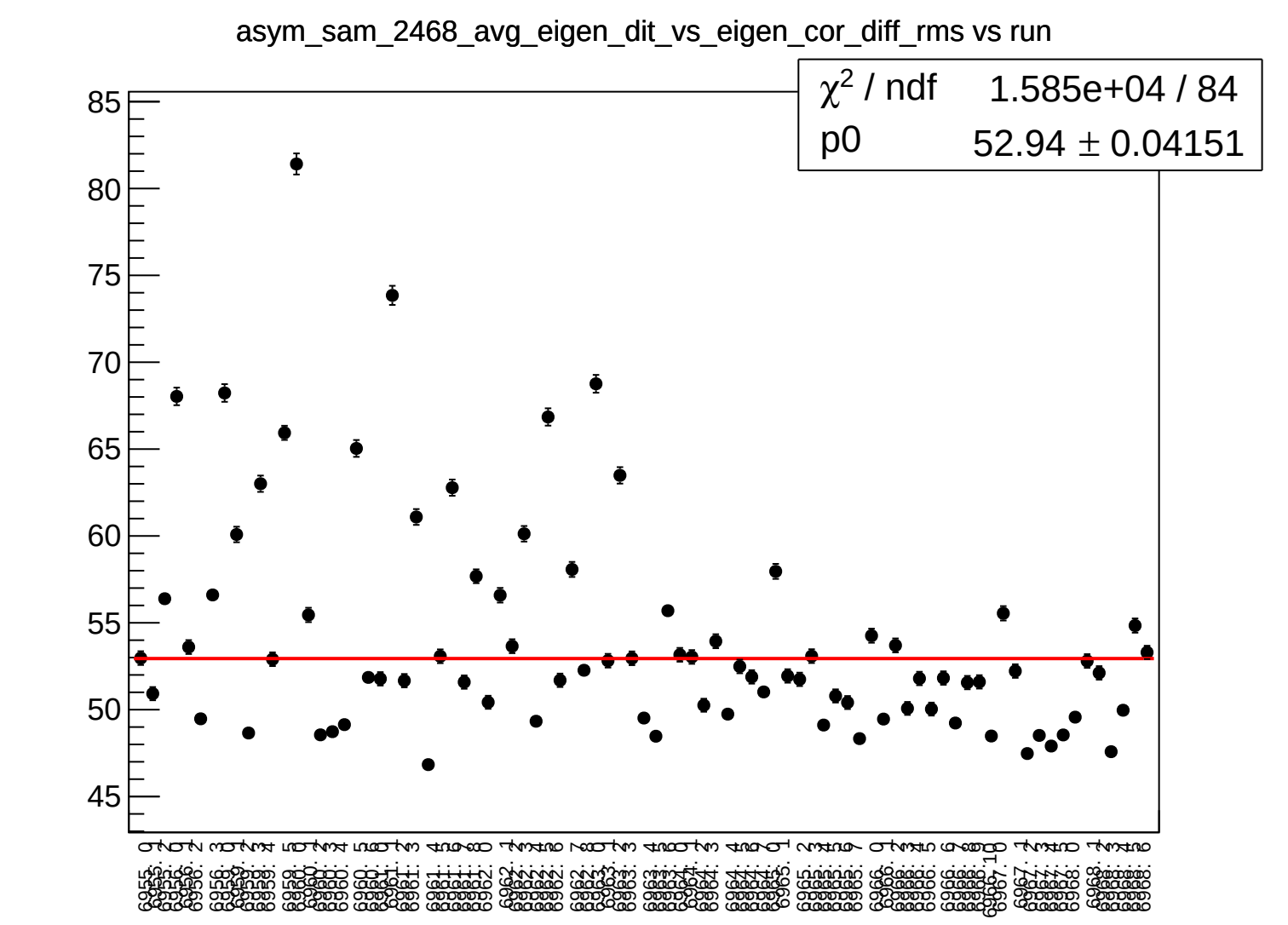

pull1D
Entries 85
Mean 0.01891
Std Dev 0.9939
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

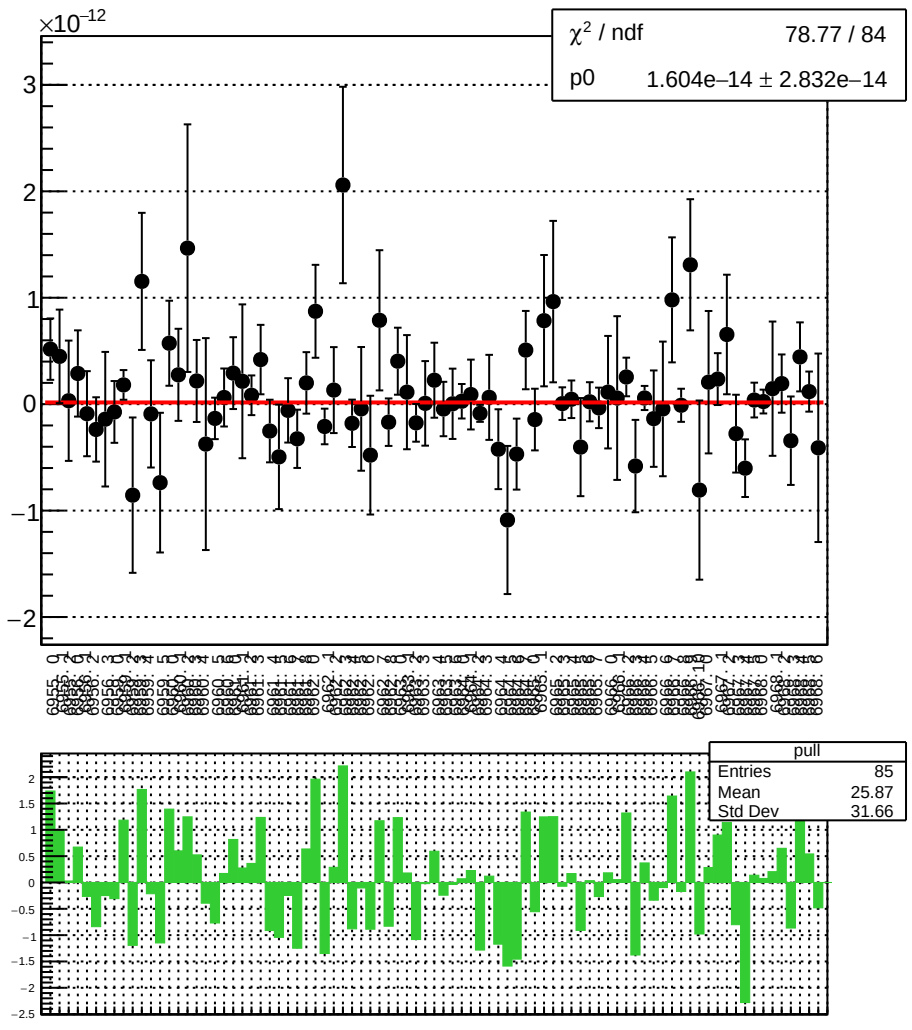

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2308 / 84
p0 0.00324 ± 2.53e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029

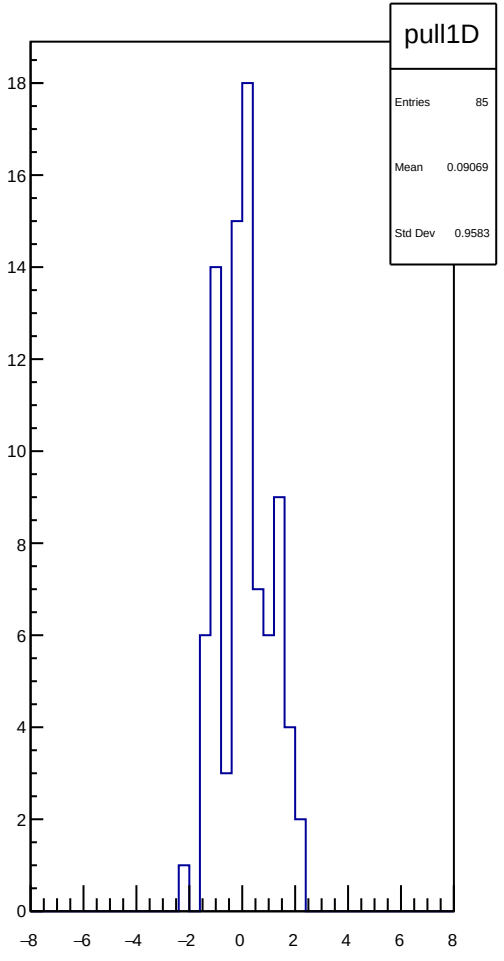

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.93 / 84
p0 0.06969 ± 0.0587
pull
Entries 85
Mean 802
Std Dev 0
pull1D
Entries 85
Mean 0.007494
Std Dev 0.9199

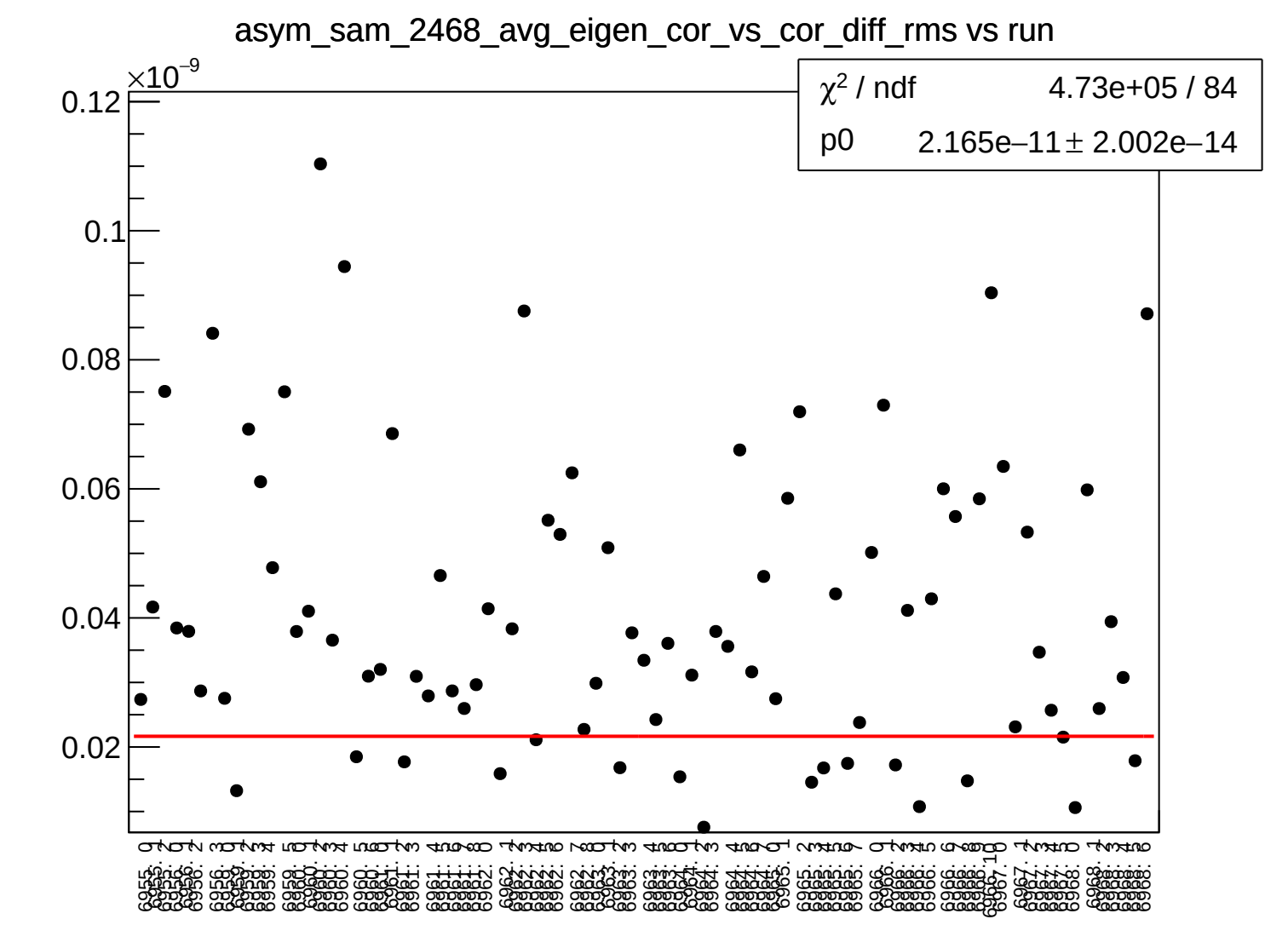

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.585e+04 / 84
p0 52.94 ± 0.04151
85
80
75
70
65
60
55
50
45

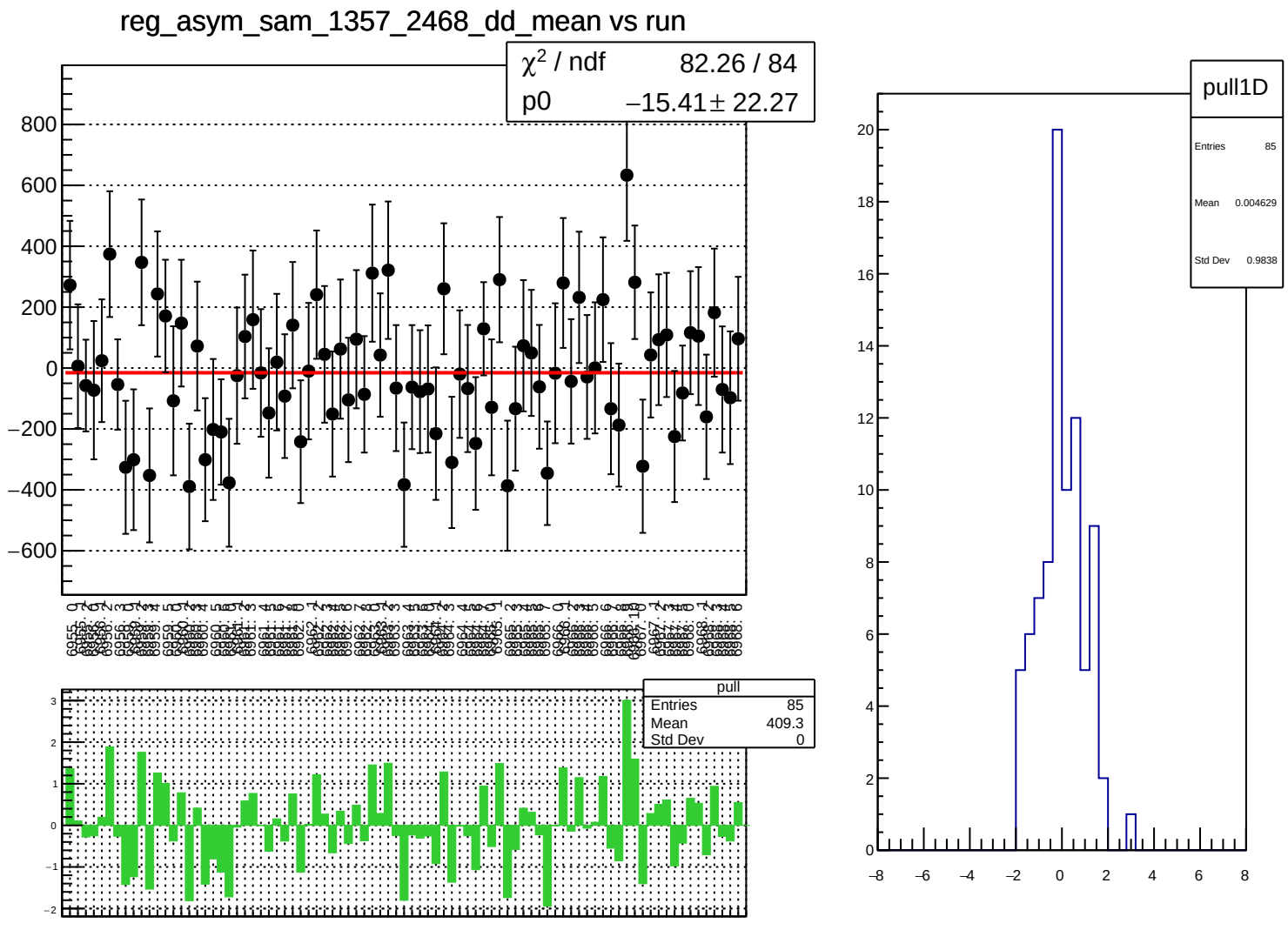

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.93 / 84
p0 0.06969 ± 0.0587
pull
Entries 85
Mean 802
Std Dev 0
pull1D
Entries 85
Mean 0.007494
Std Dev 0.9199

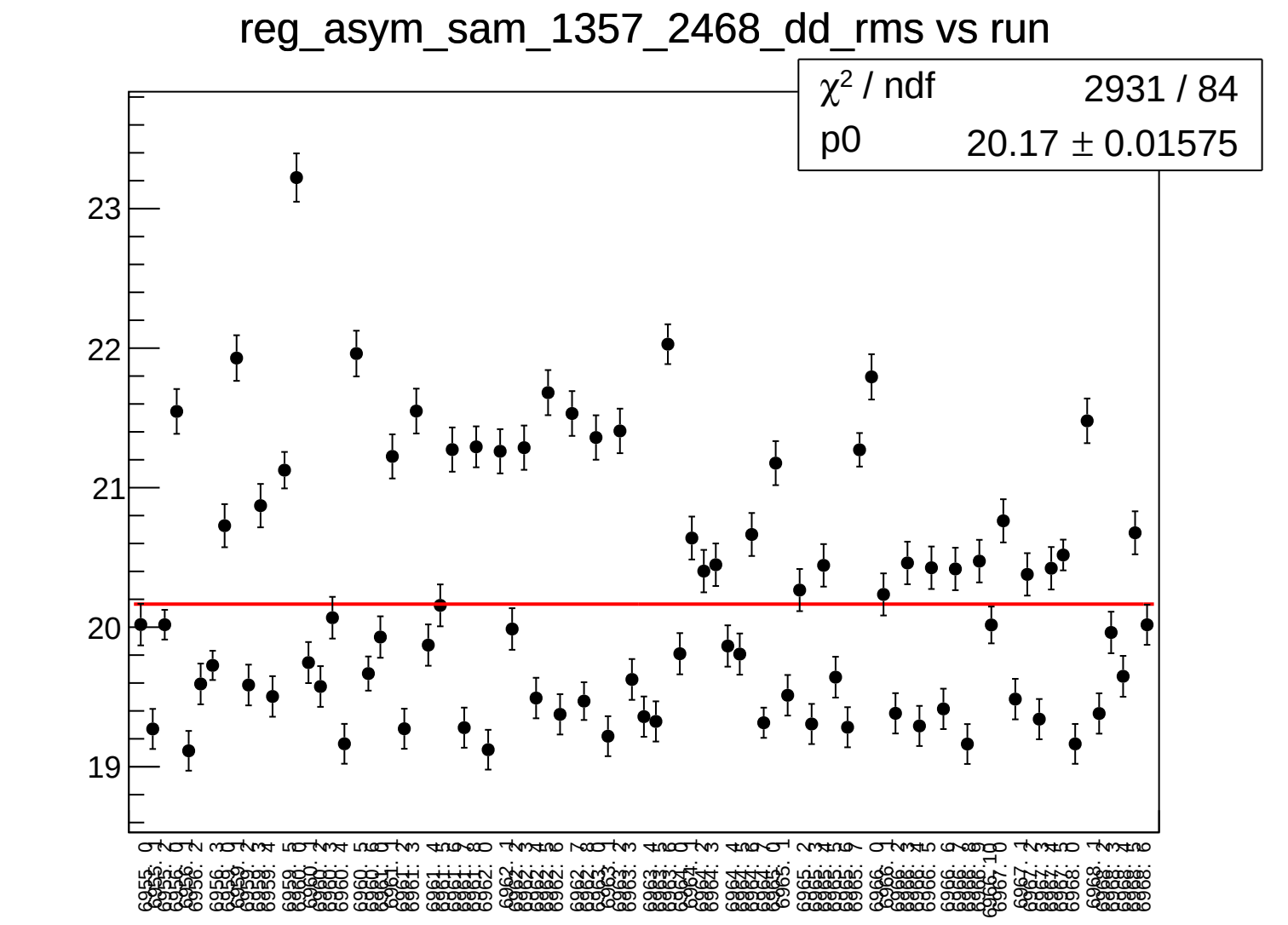

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.585e+04 / 84
p0 52.94 ± 0.04151
85
80
75
70
65
60
55
50
45

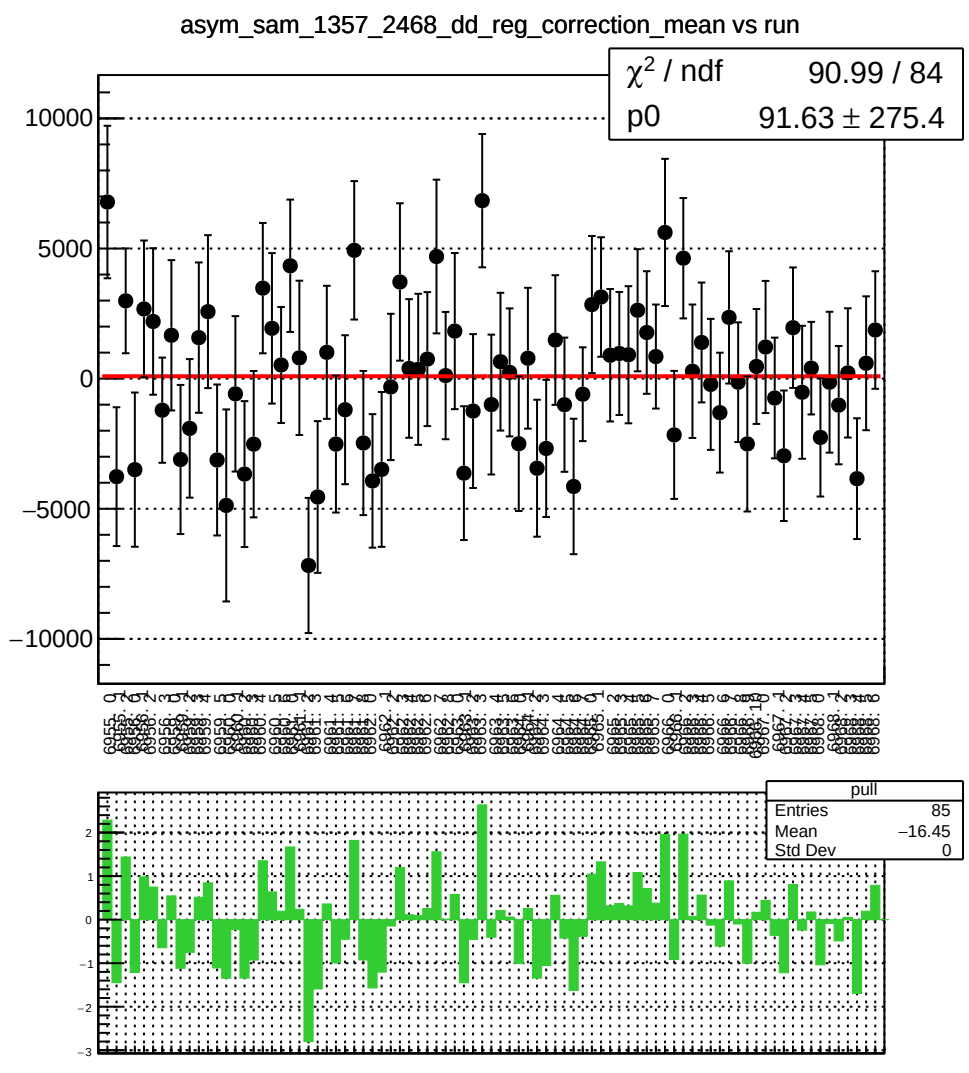

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.77 / 84
p0 1.604e−14 ± 2.832e−14
pull
Entries 85
Mean 25.87
Std Dev 31.66

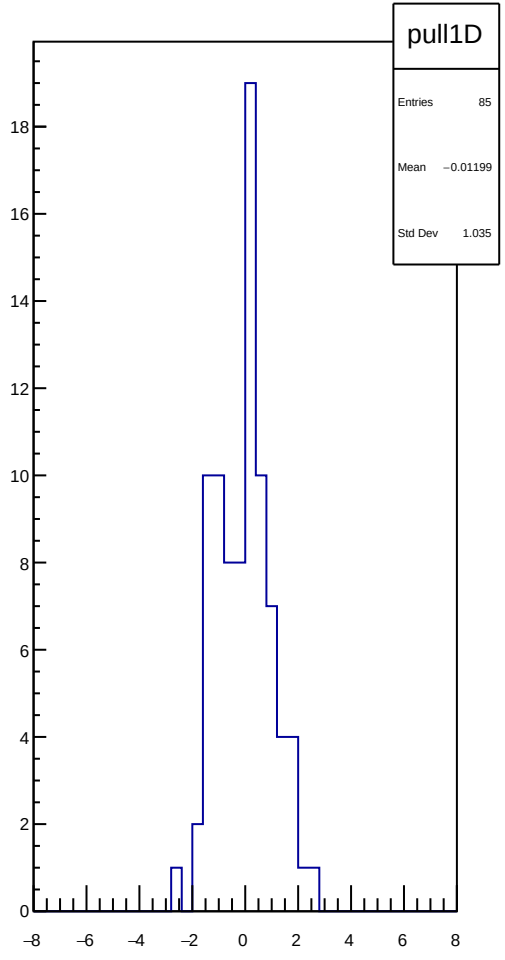

pull1D
Entries 85
Mean 0.09069
Std Dev 0.9583

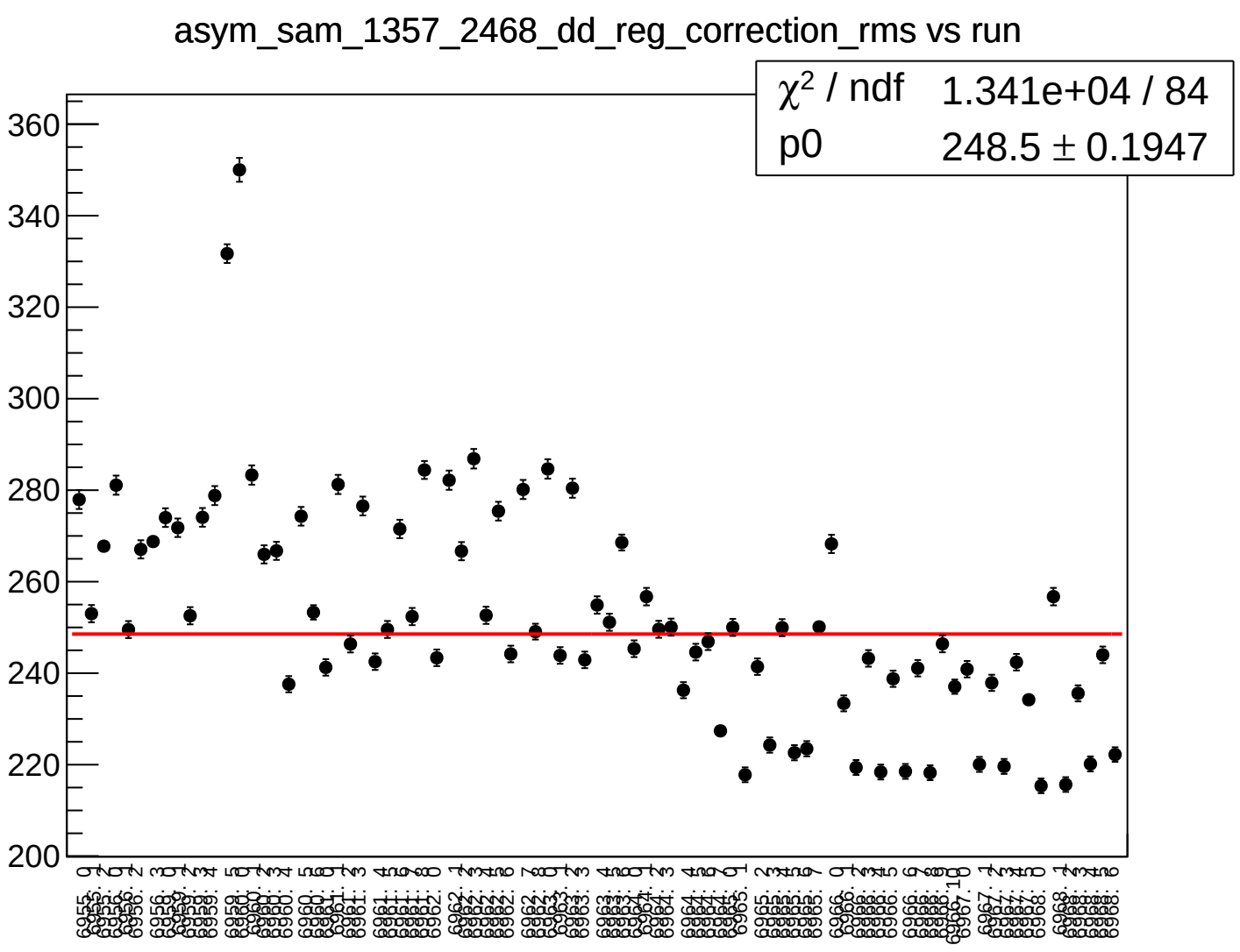

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 4.73e+05 / 84
p0 2.165e−11 ± 2.002e−14

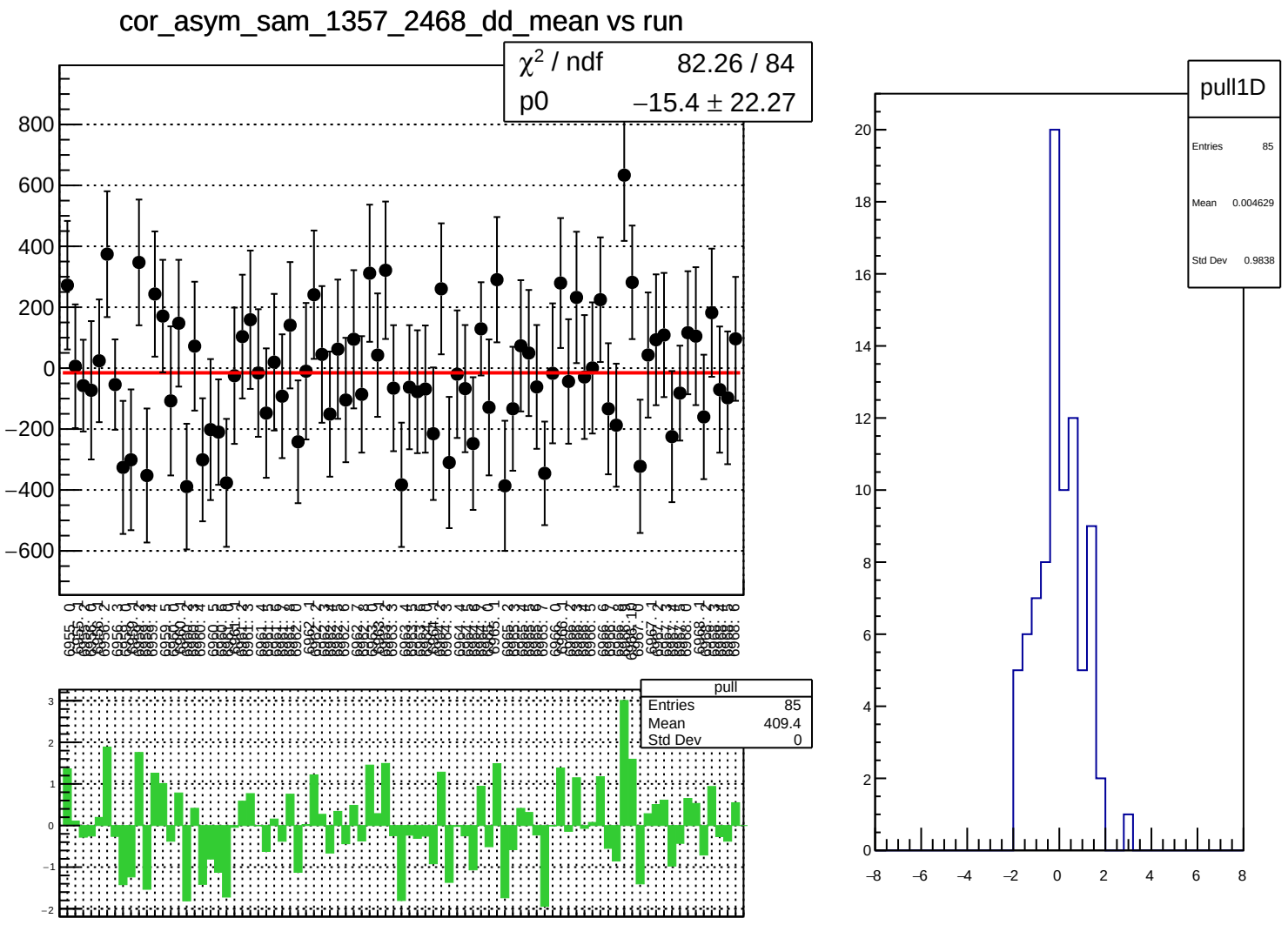

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.26 / 84
p0 −15.41 ± 22.27
pull
Entries 85
Mean 409.3
Std Dev 0
pull1D
Entries 85
Mean 0.004629
Std Dev 0.9838

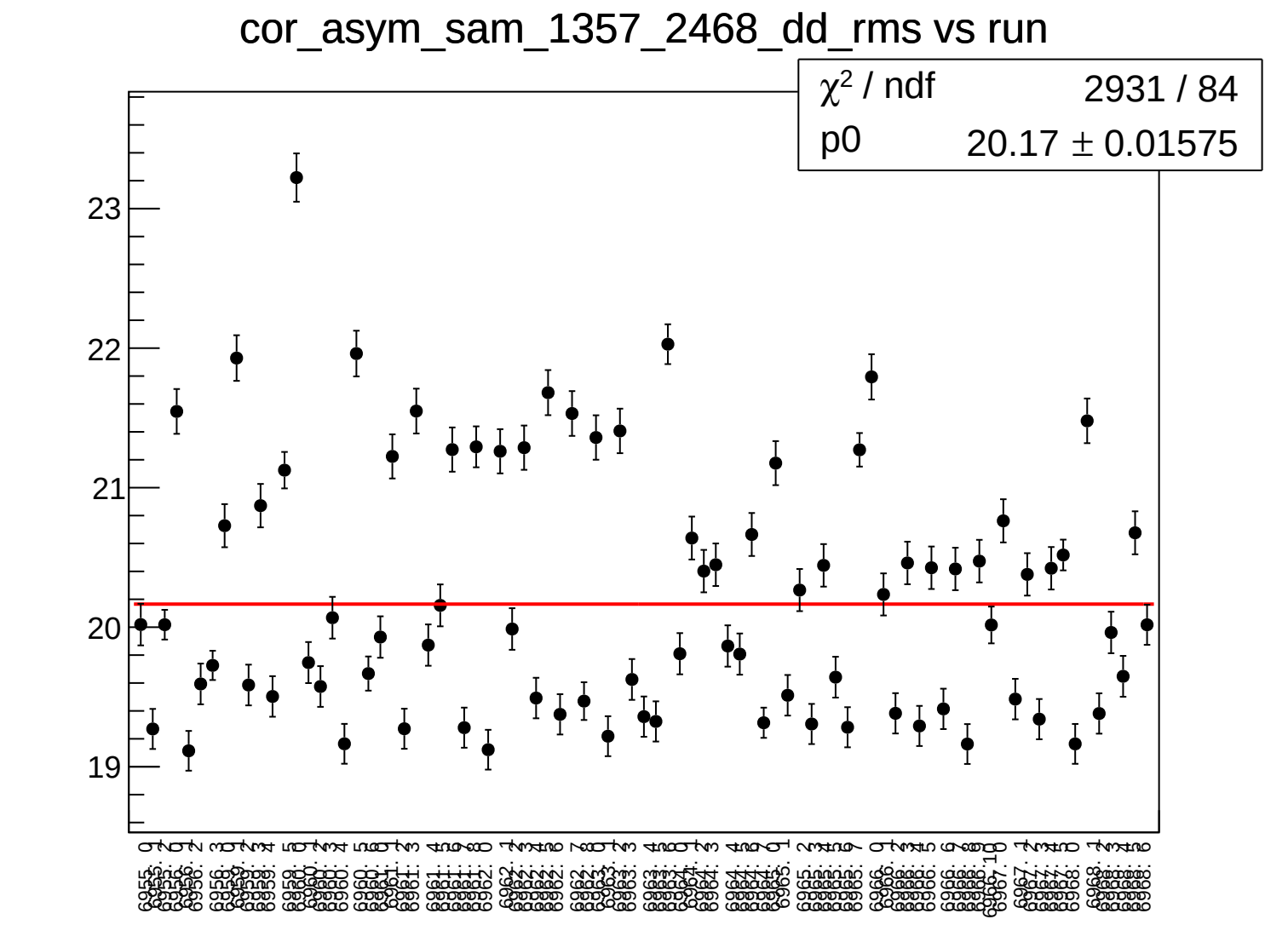

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2931 / 84
p0 20.17 ± 0.01575
23
22
21
20
19

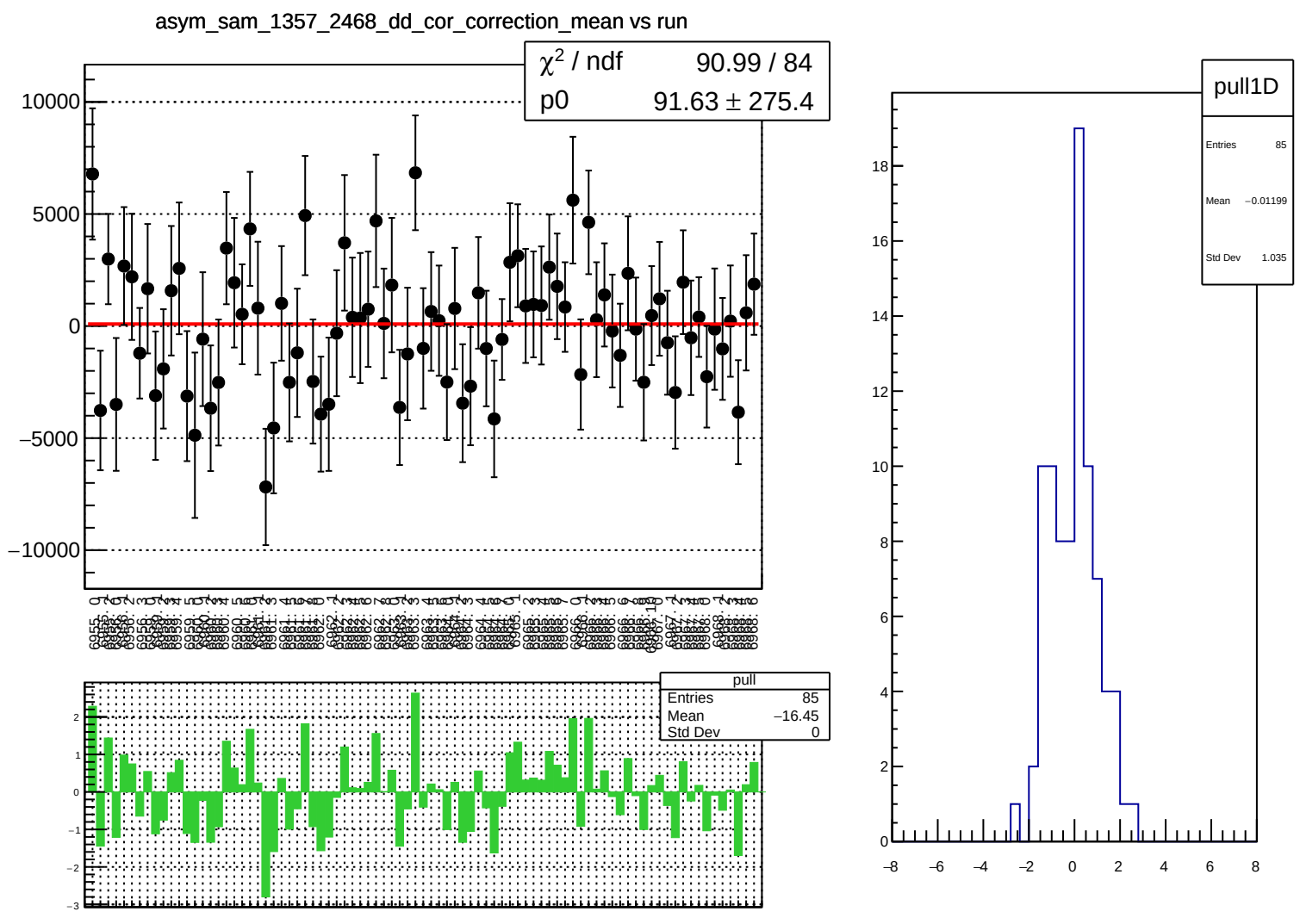

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 90.99 / 84
p0 91.63 ± 275.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −16.45
Std Dev 0
2
1
0
−1
−2
−3

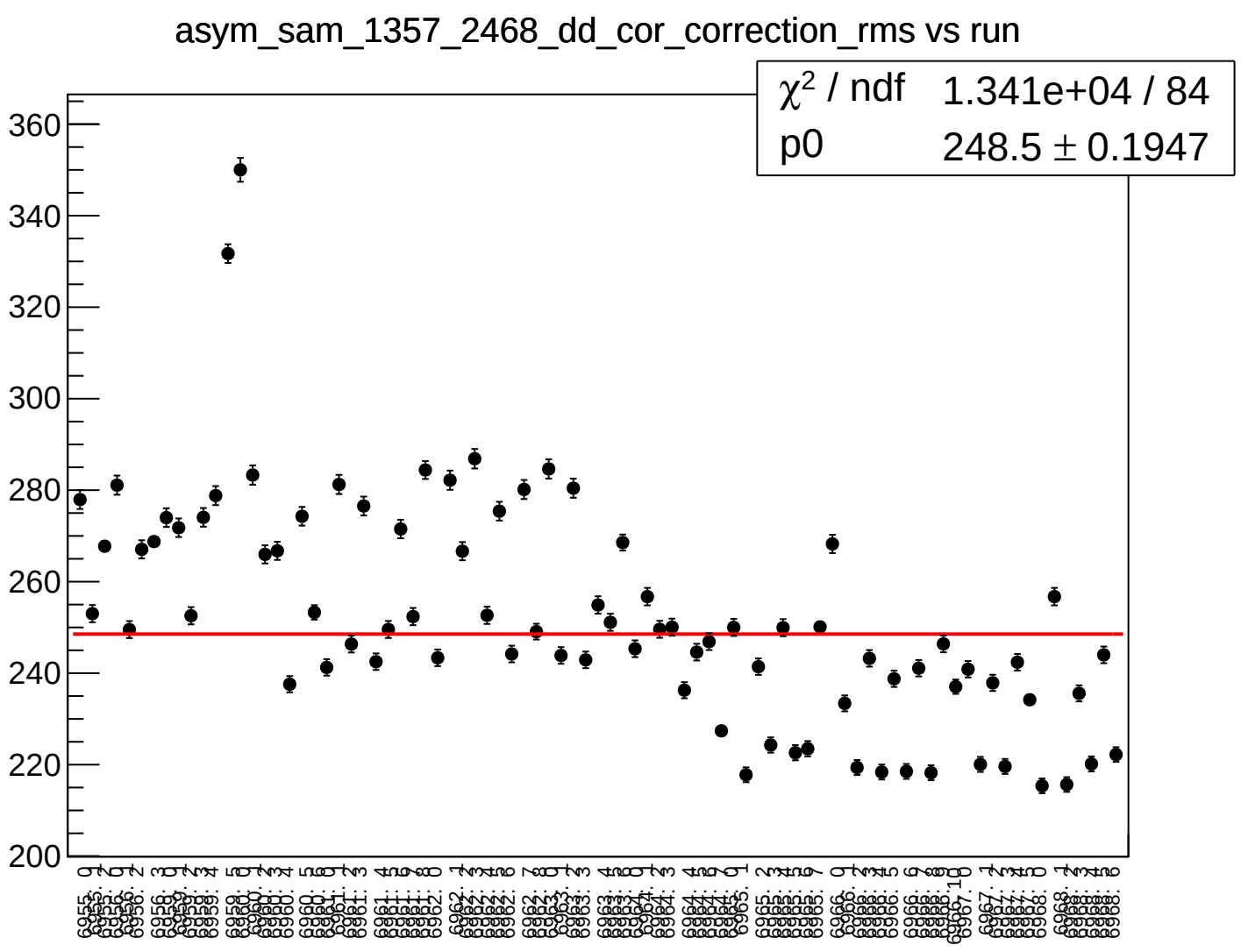

pull1D
Entries 85
Mean −0.01199
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

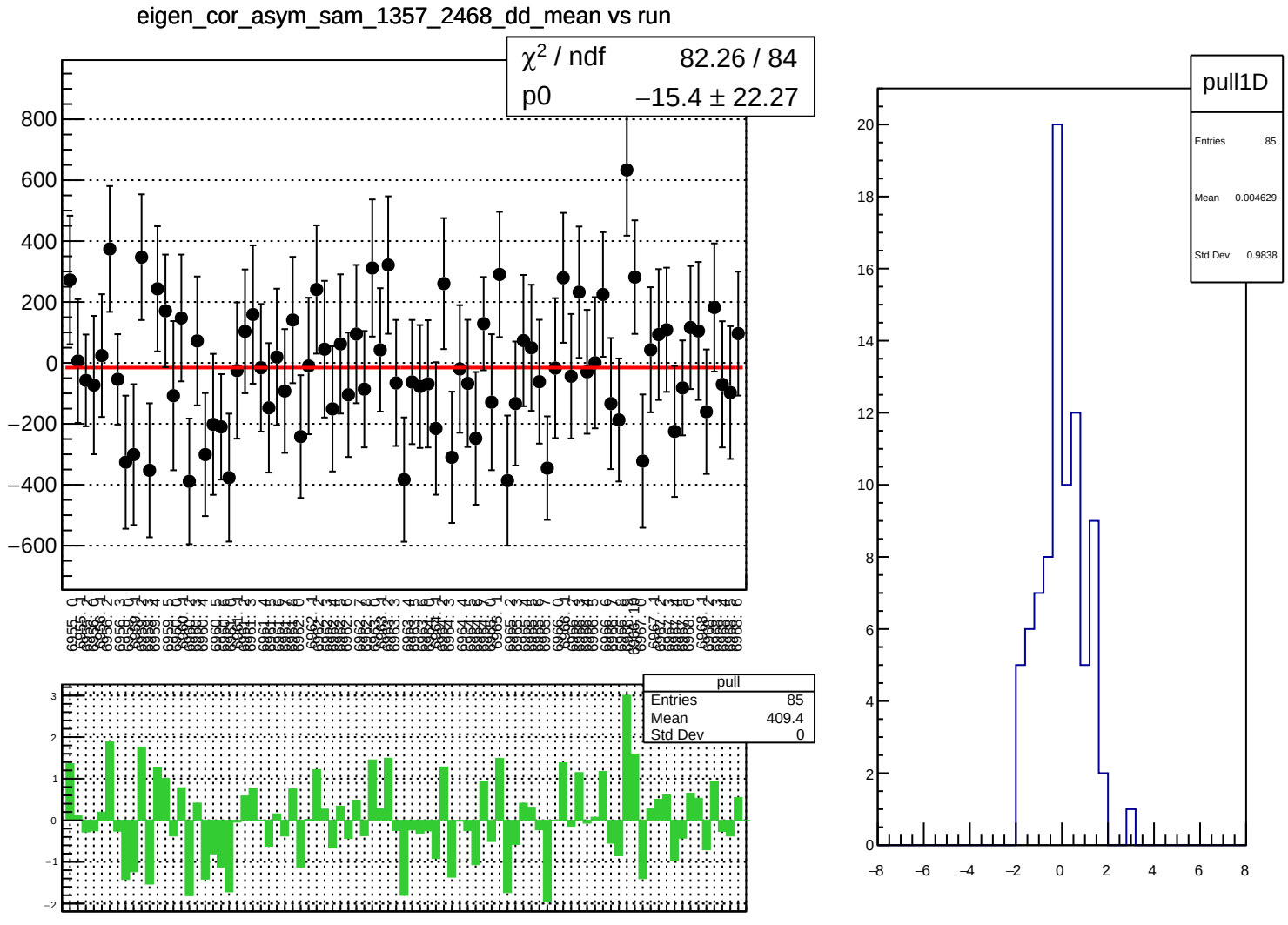

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.341e+04 / 84
p0 248.5 ± 0.1947
360
340
320
300
280
260
240
220
200

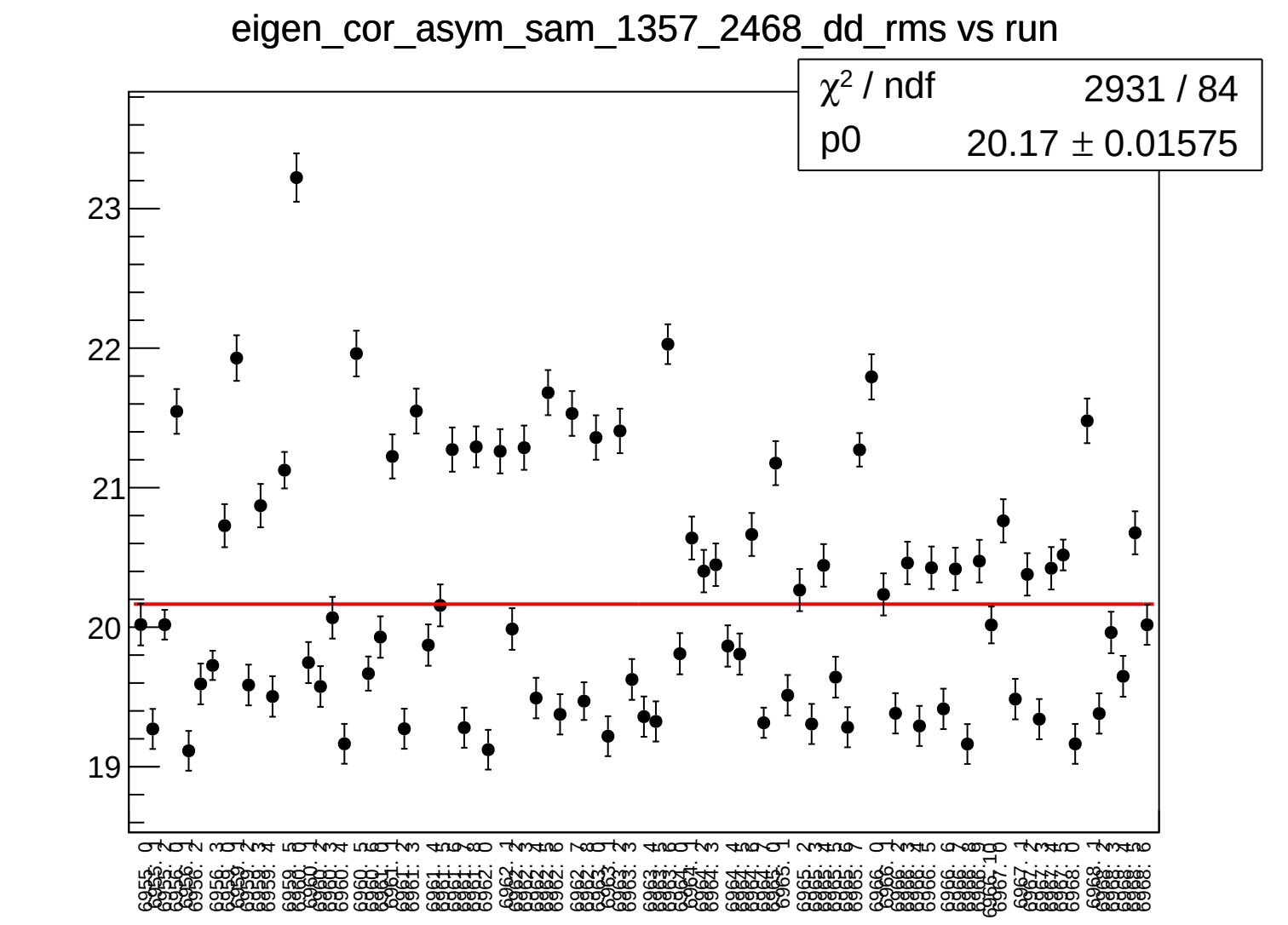

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.26 / 84
p0 −15.4 ± 22.27
pull
Entries 85
Mean 409.4
Std Dev 0
pull1D
Entries 85
Mean 0.004629
Std Dev 0.9838

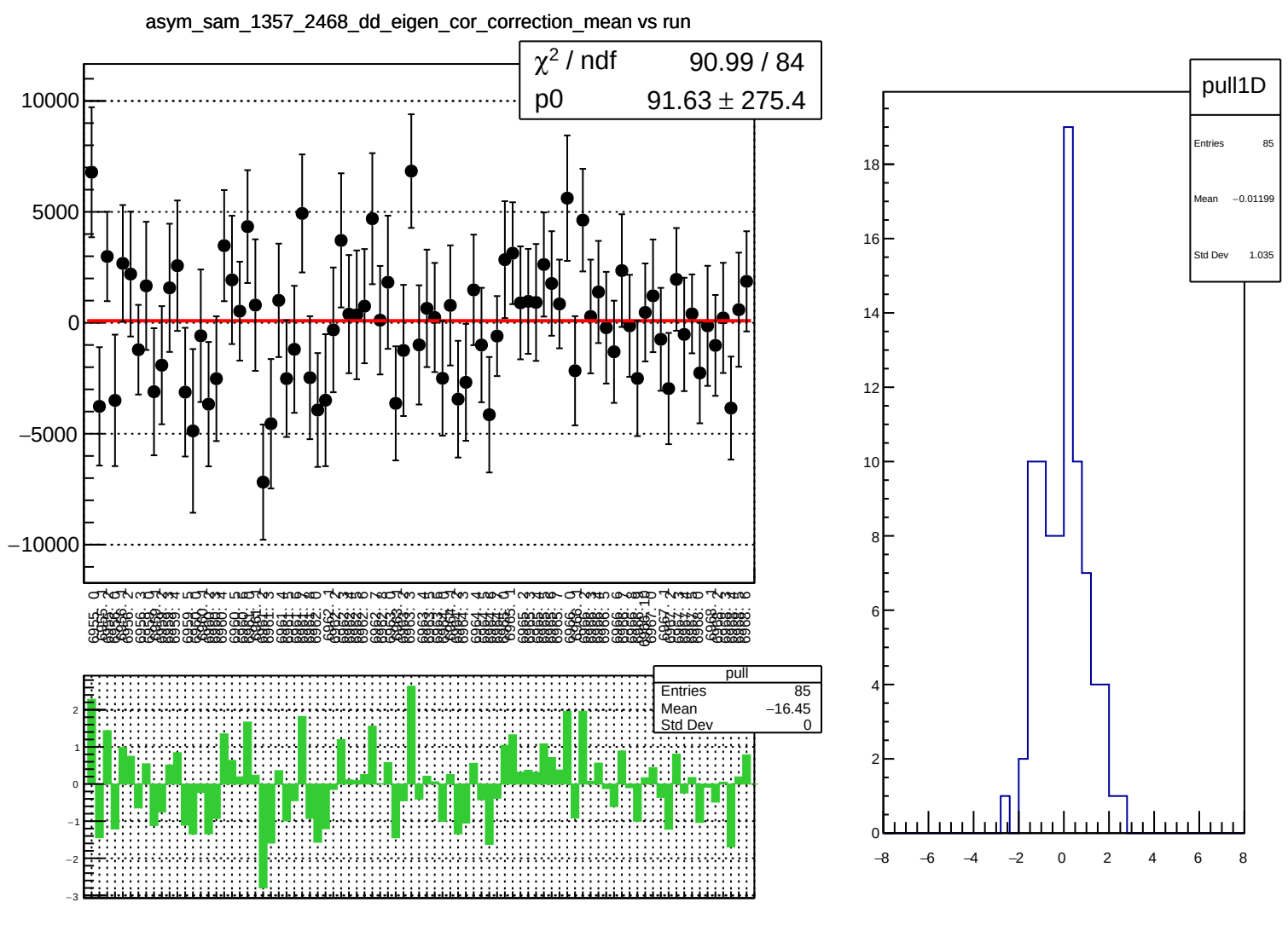

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2931 / 84
p0 20.17 ± 0.01575
23
22
21
20
19

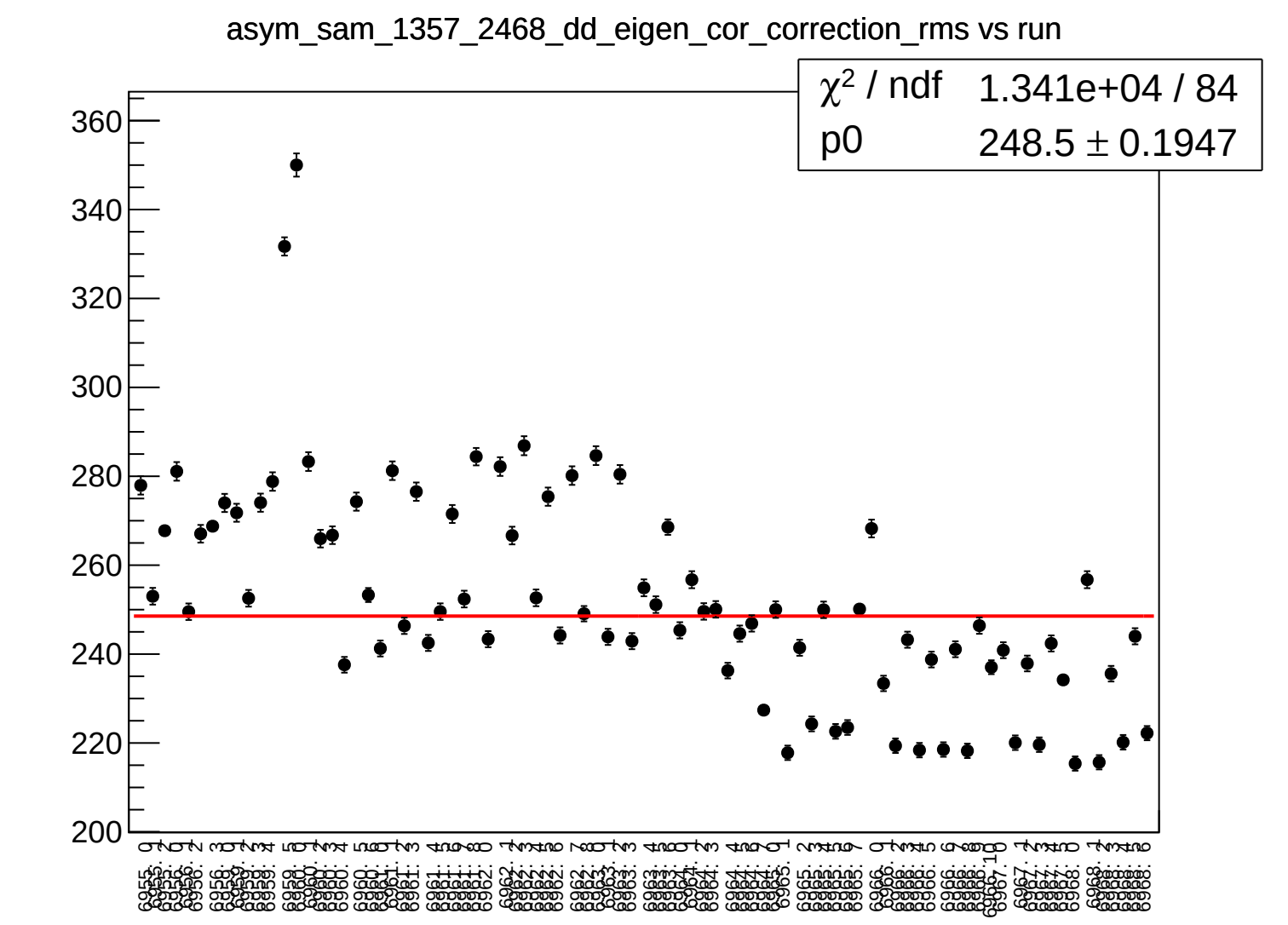

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 90.99 / 84
p0 91.63 ± 275.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −16.45
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.01199
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

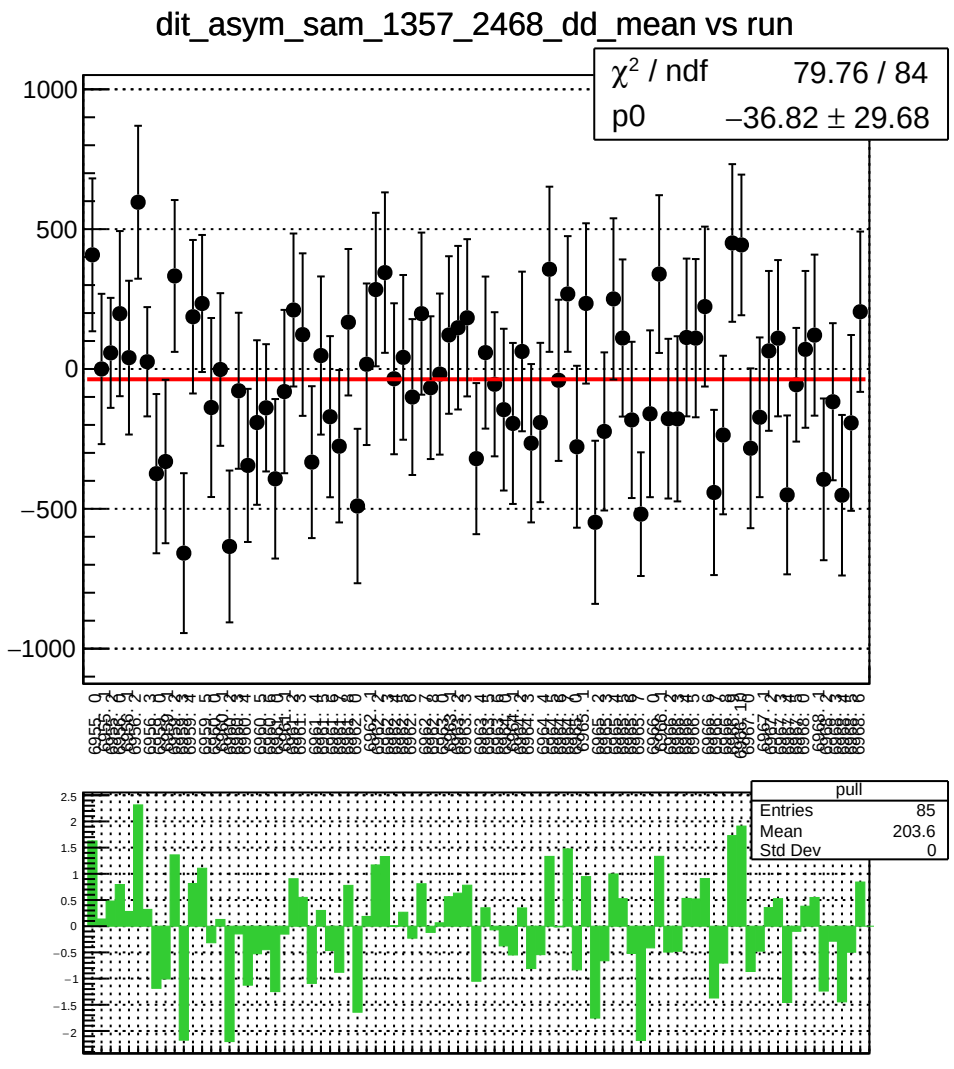

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.341e+04 / 84
p0 248.5 ± 0.1947
360
340
320
300
280
260
240
220
200

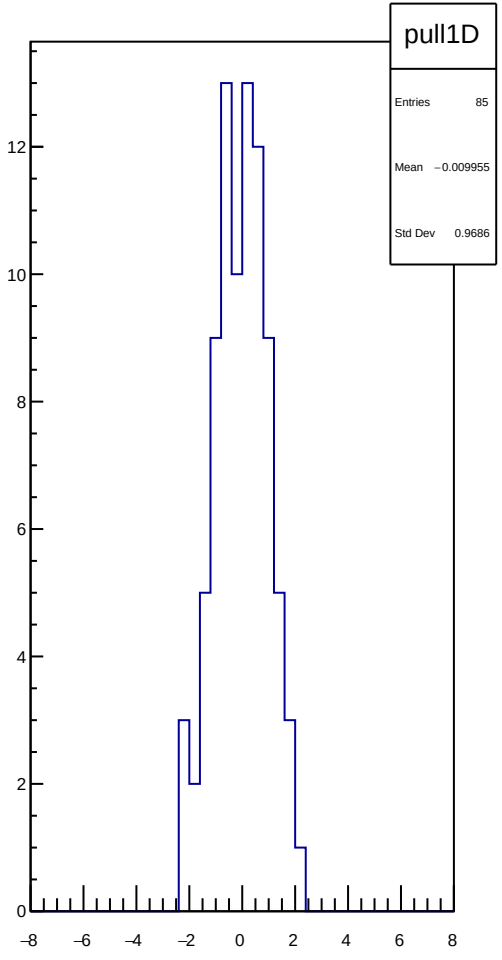

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.26 / 84
p0 −15.4 ± 22.27
pull
Entries 85
Mean 409.4
Std Dev 0
pull1D
Entries 85
Mean 0.004629
Std Dev 0.9838

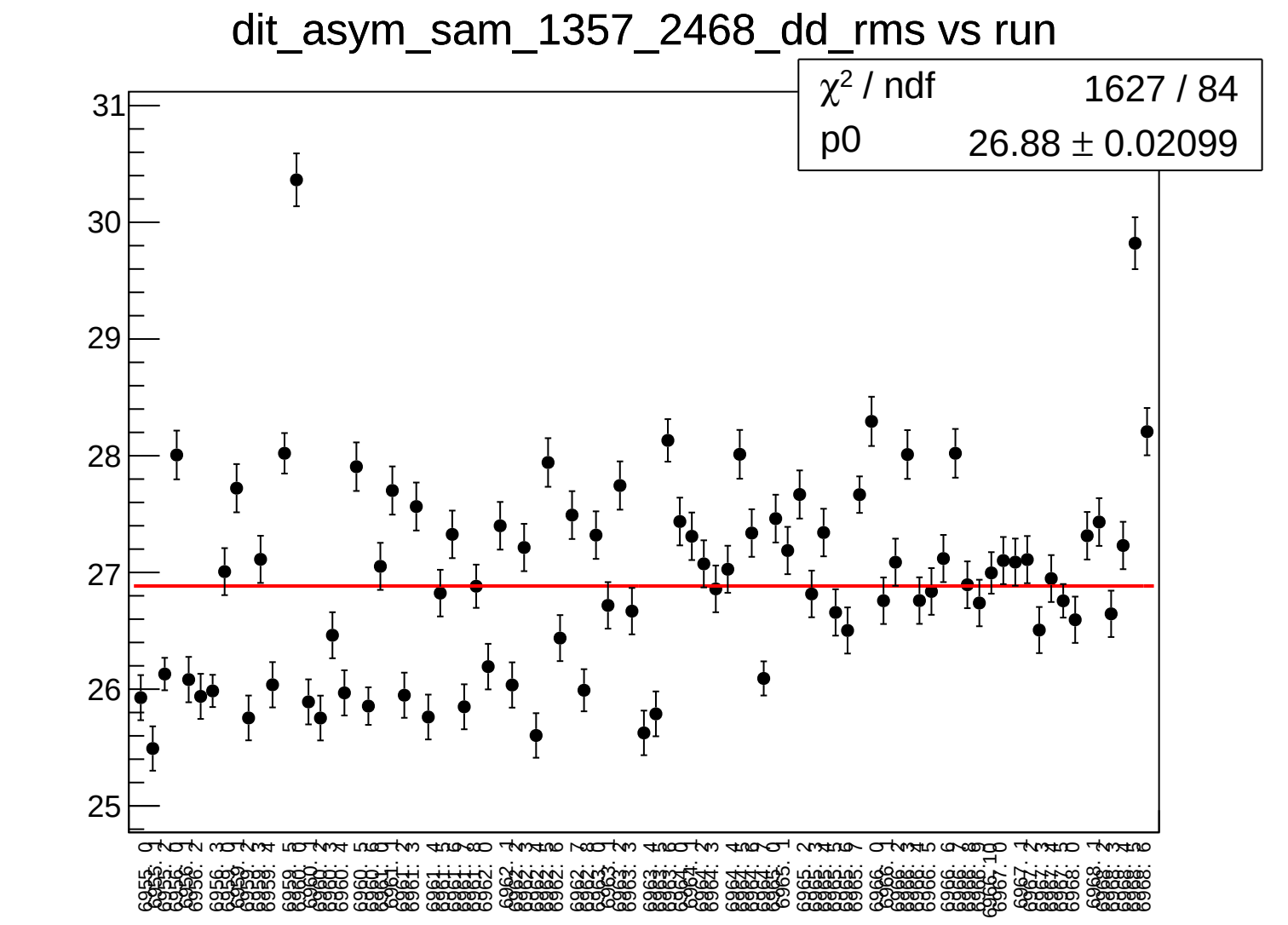

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2931 / 84
p0 20.17 ± 0.01575
23
22
21
20
19

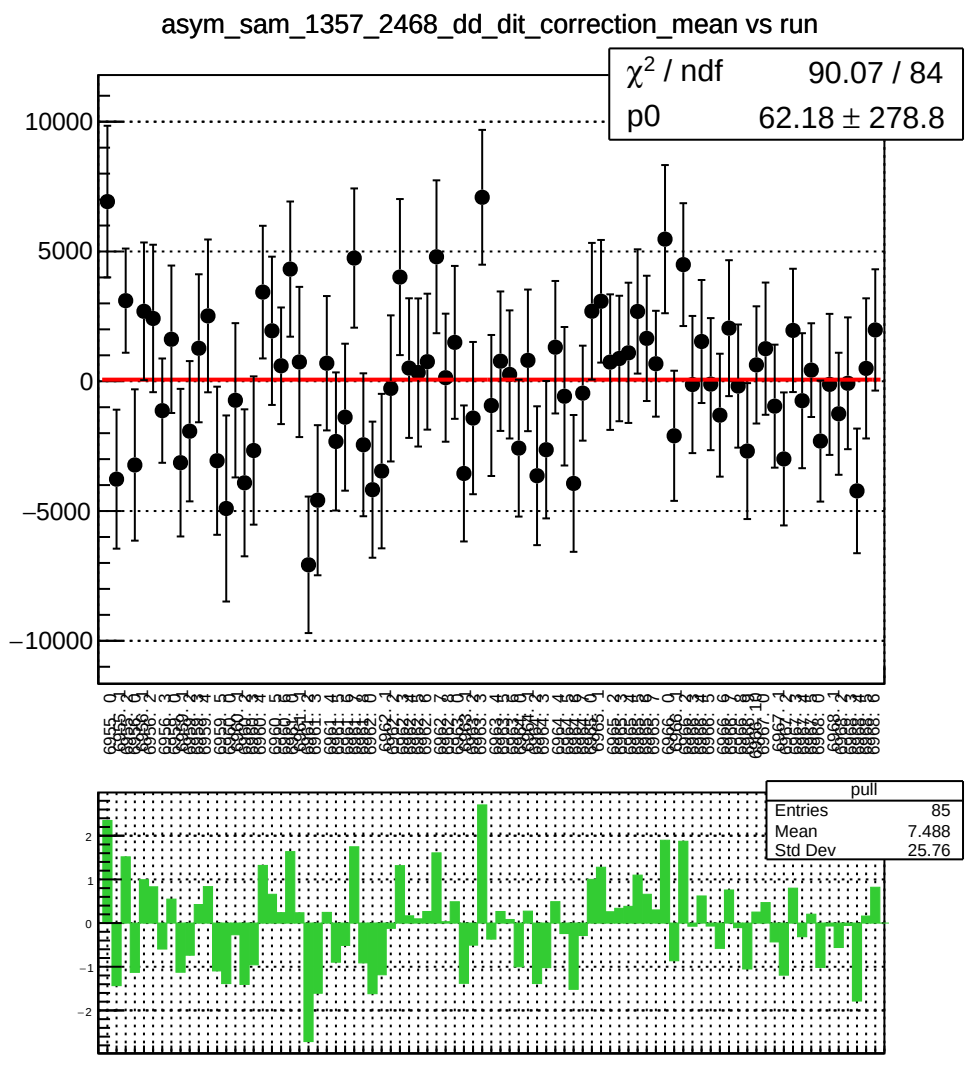

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.99 / 84
p0 91.63 ± 275.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −16.45
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.01199
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

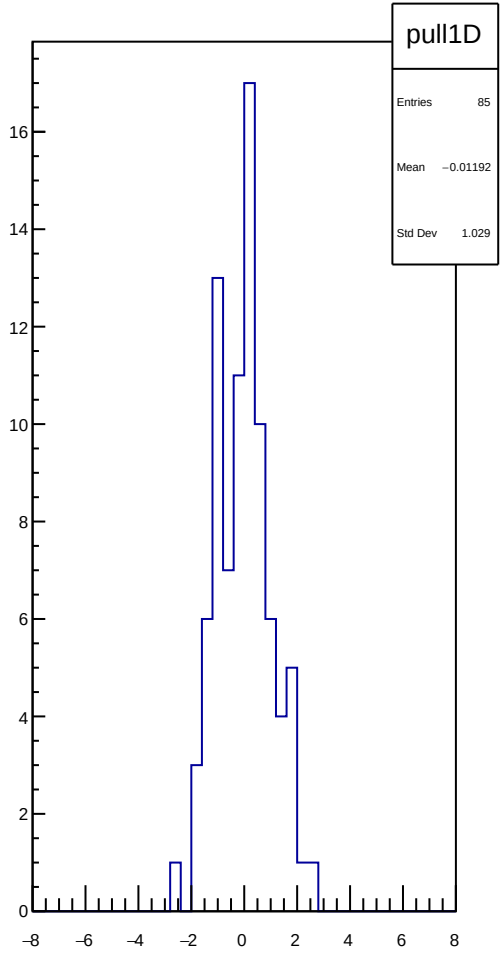

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.341e+04 / 84
p0 248.5 ± 0.1947
360
340
320
300
280
260
240
220
200

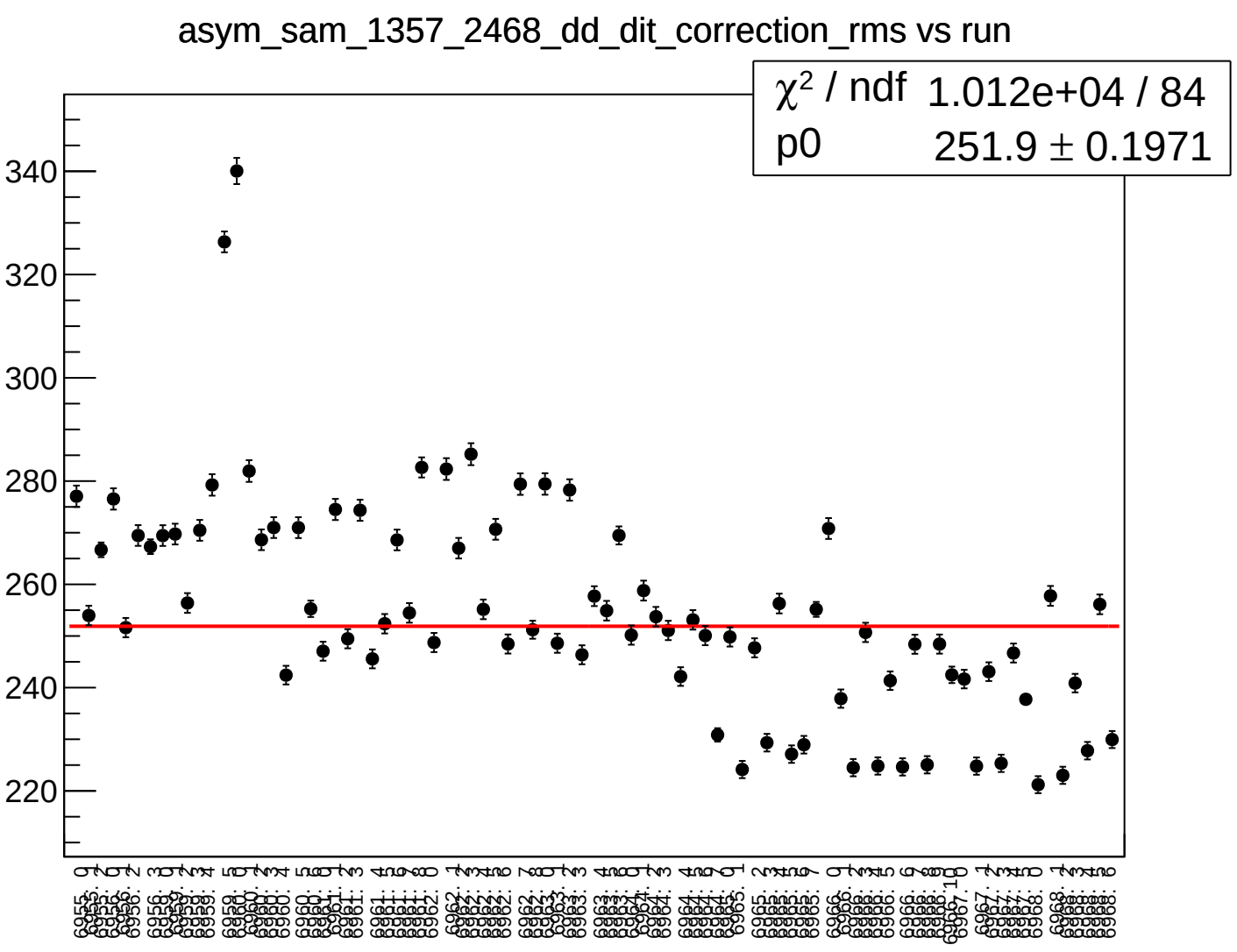

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.76 / 84
p0 −36.82 ± 29.68
1000
500
0
−500
−1000
pull
Entries 85
Mean 203.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

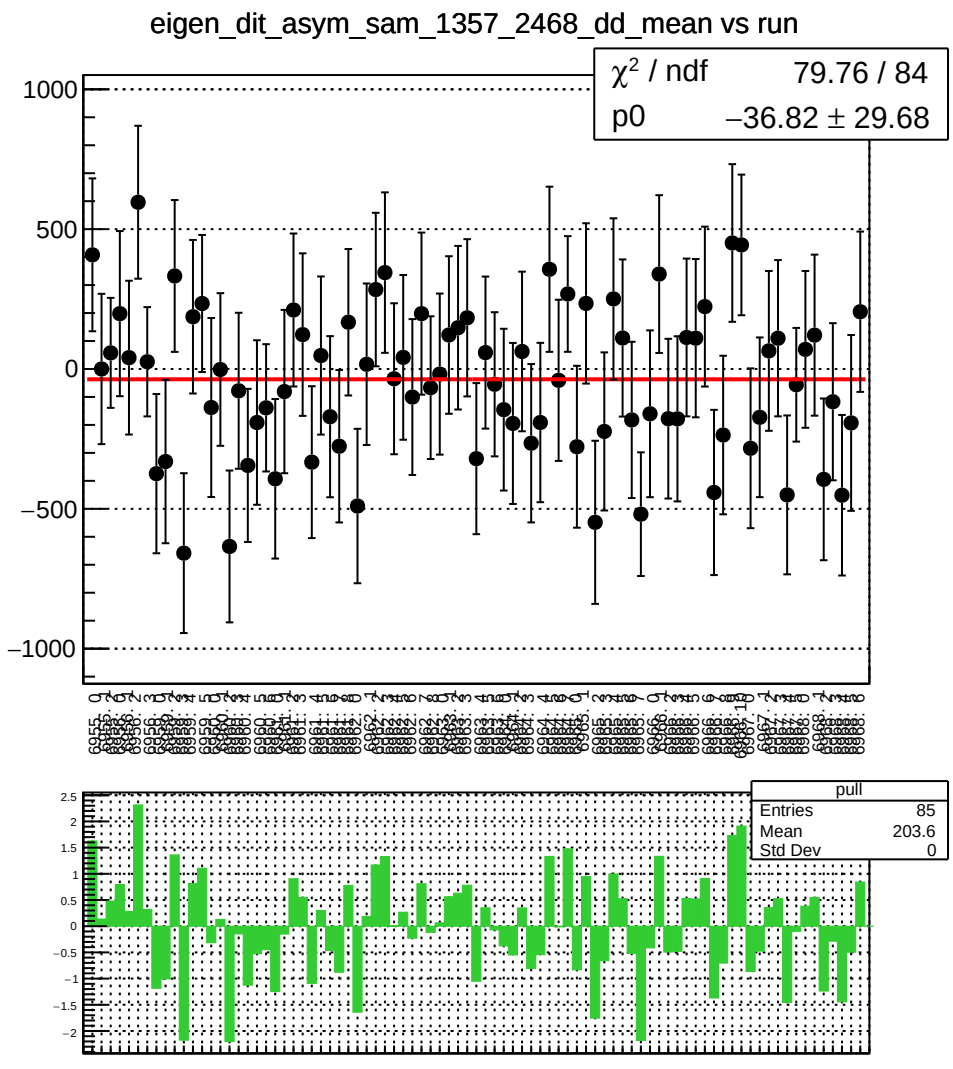

pull1D
Entries 85
Mean −0.009955
Std Dev 0.9686
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

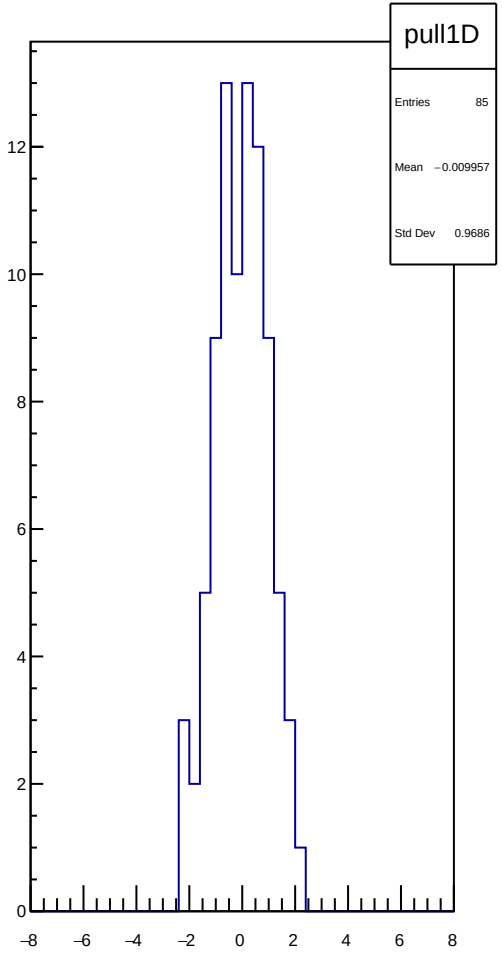

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1627 / 84
p0 26.88 ± 0.02099
31
30
29
28
27
26
25

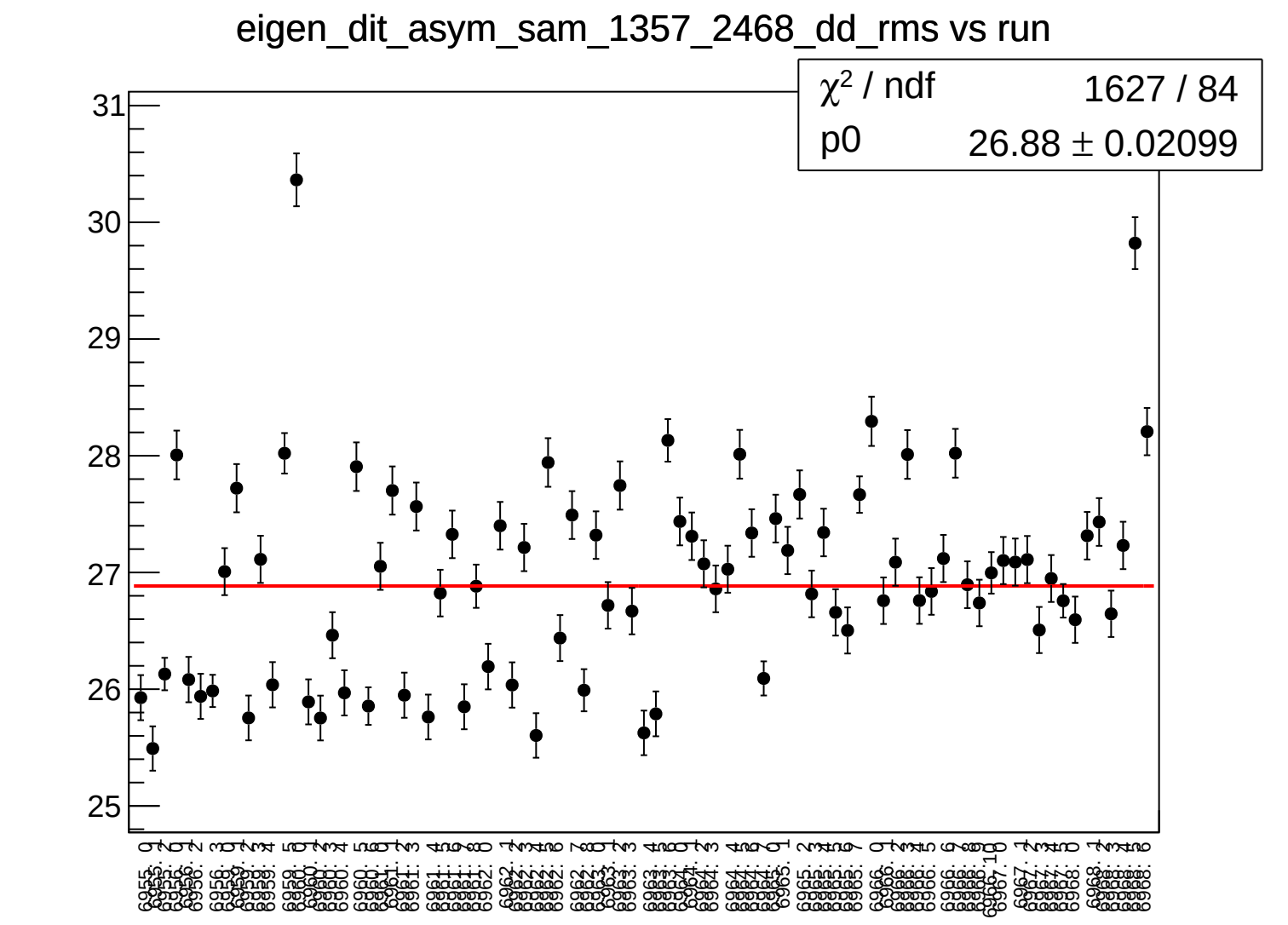

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 90.07 / 84
p0 62.18 ± 278.8
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 7.488
Std Dev 25.76
2
1
0
−1
−2

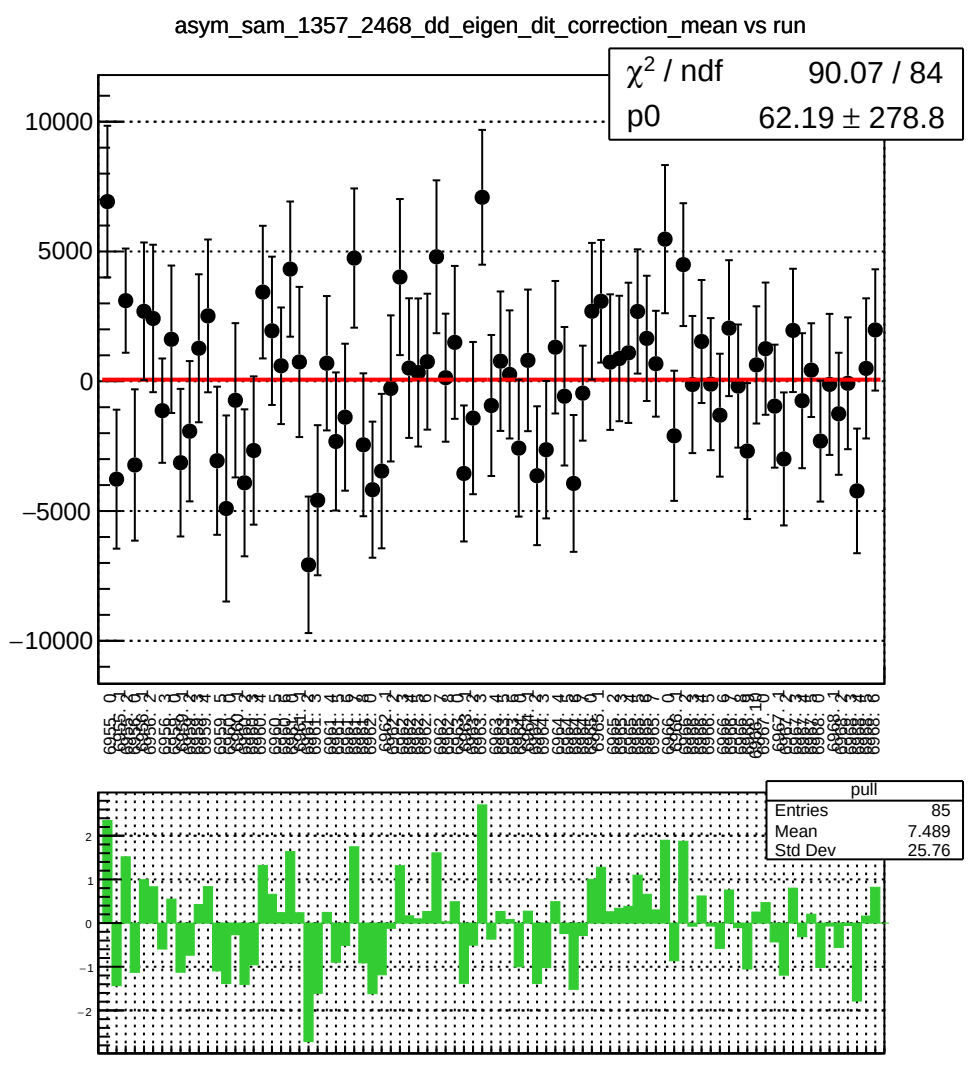

pull1D
Entries 85
Mean −0.01192
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

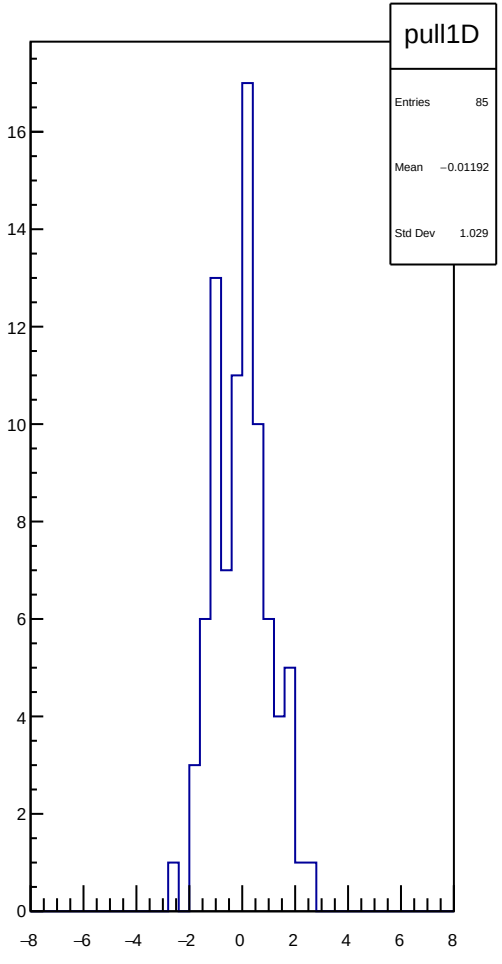

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.012e+04 / 84
p0 251.9 ± 0.1971
340
320
300
280
260
240
220

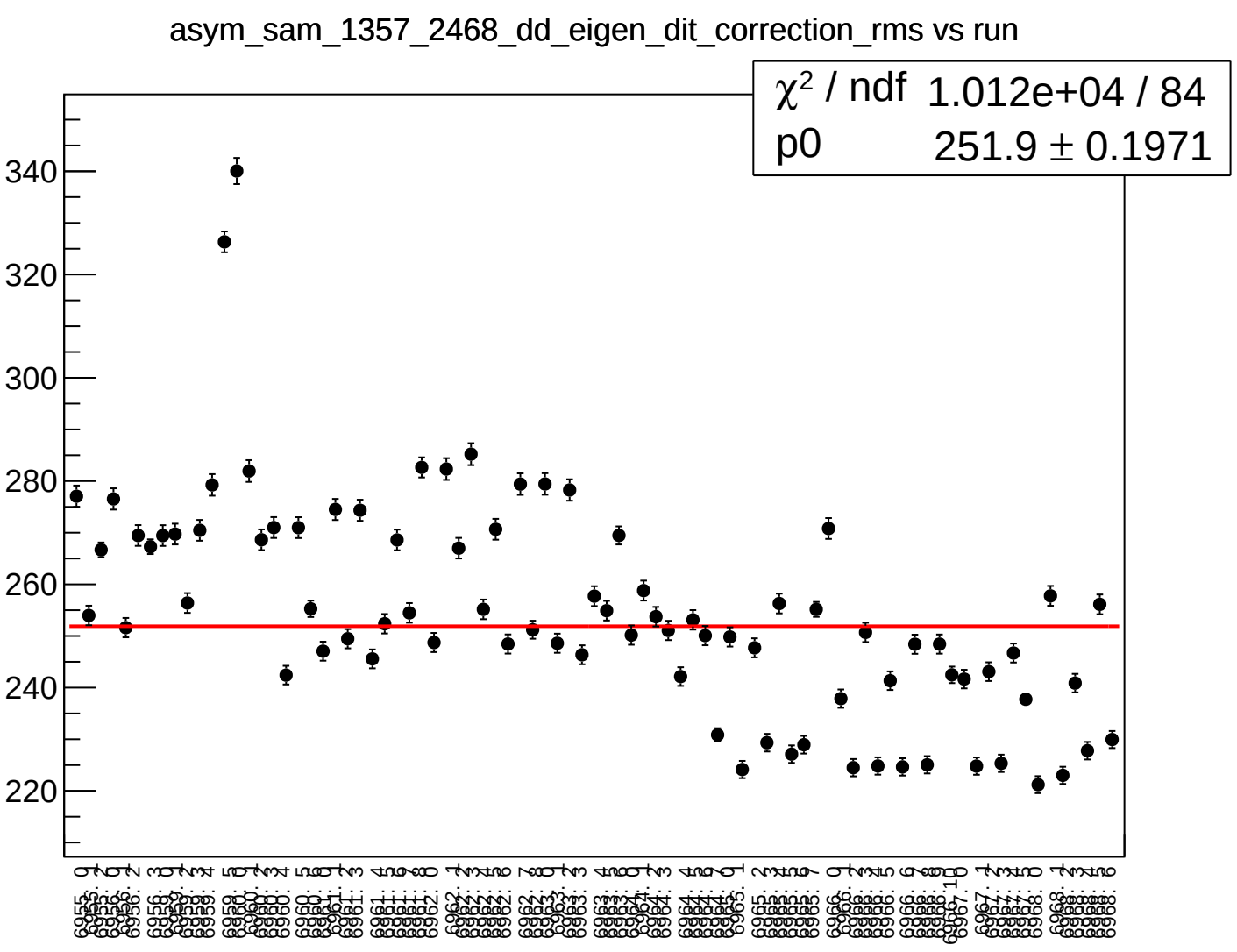

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.76 / 84
p0 −36.82 ± 29.68
1000
500
0
−500
−1000
pull
Entries 85
Mean 203.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

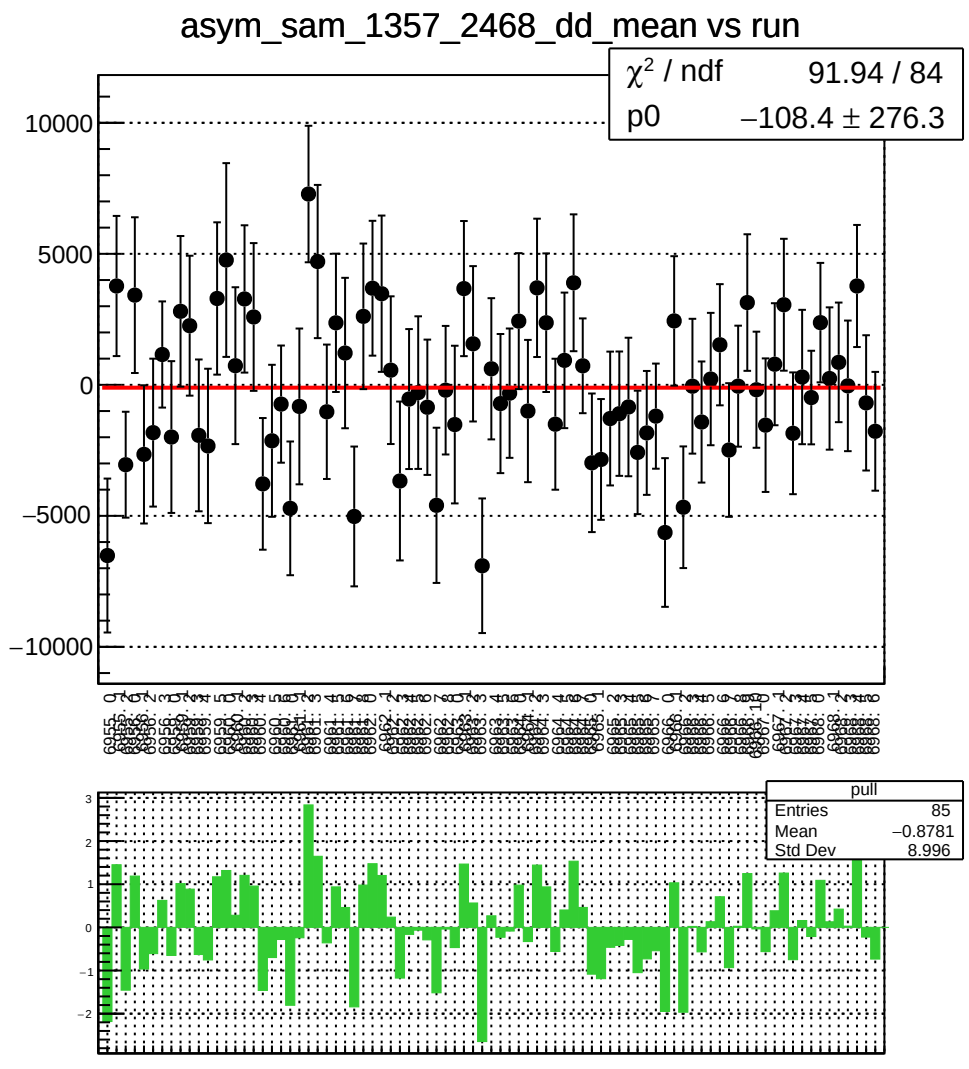

pull1D
Entries 85
Mean −0.009957
Std Dev 0.9686
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

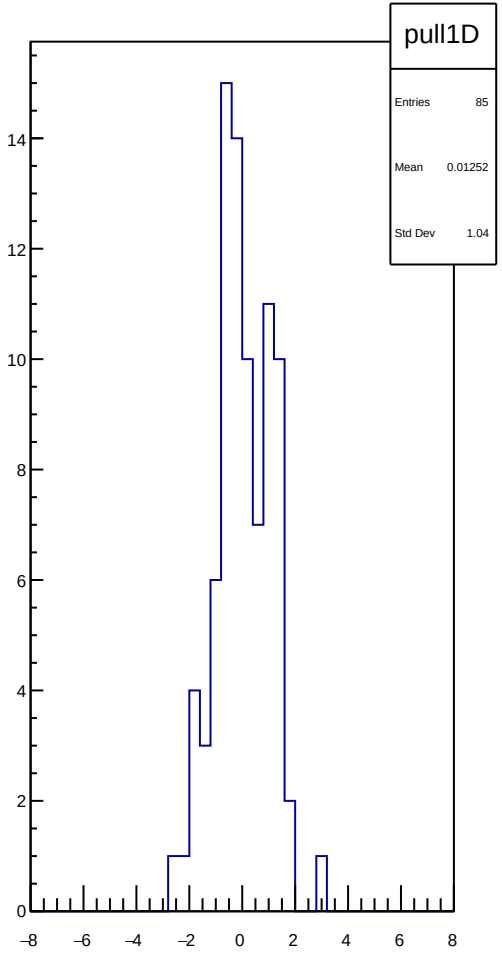

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1627 / 84
p0 26.88 ± 0.02099
31
30
29
28
27
26
25

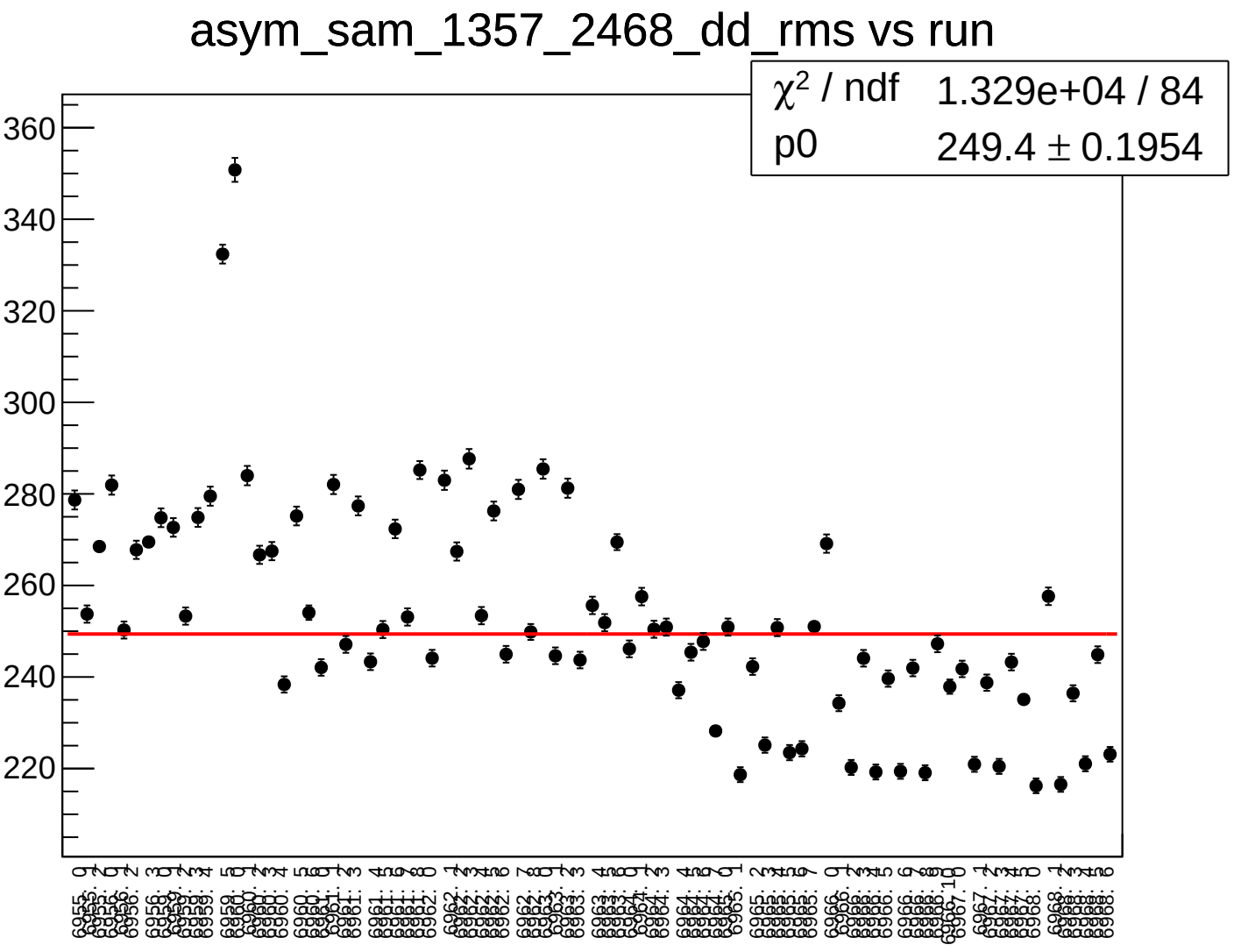

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.07 / 84
p0 62.19 ± 278.8
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 7.489
Std Dev 25.76
2
1
0
−1
−2

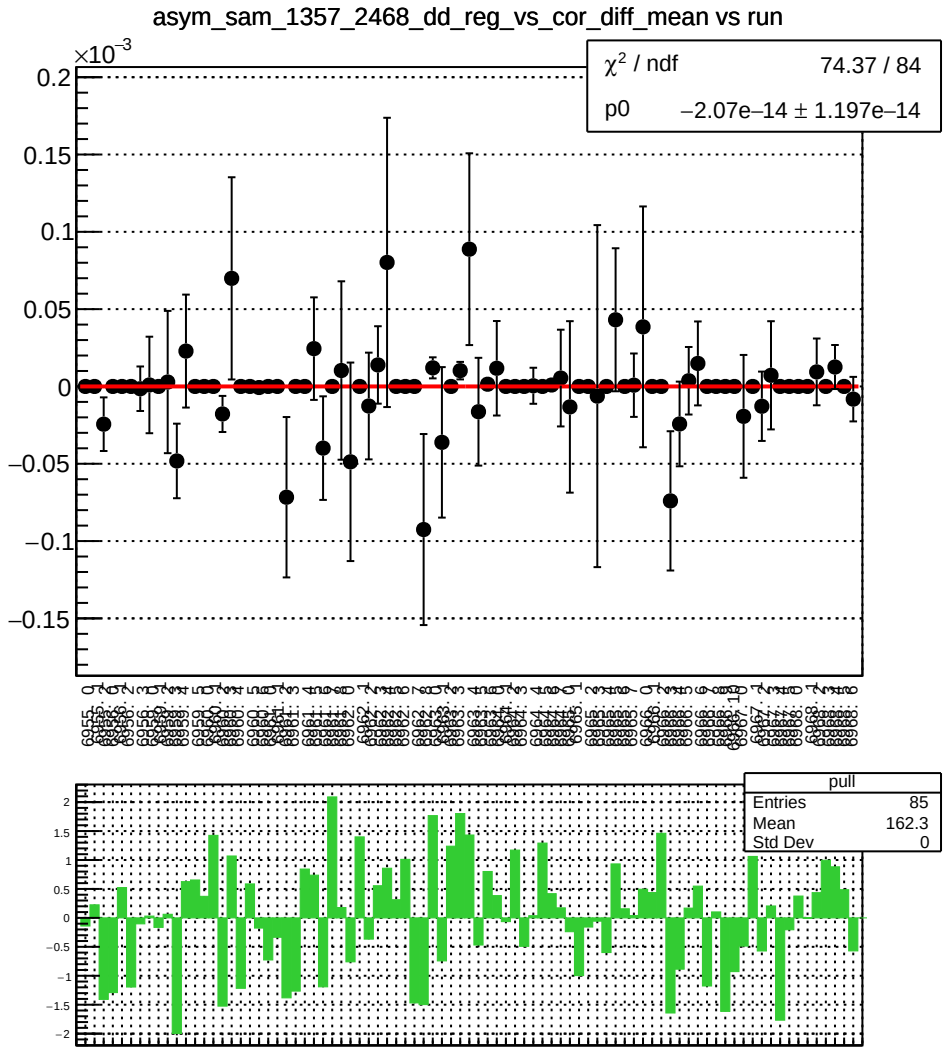

pull1D
Entries 85
Mean −0.01192
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

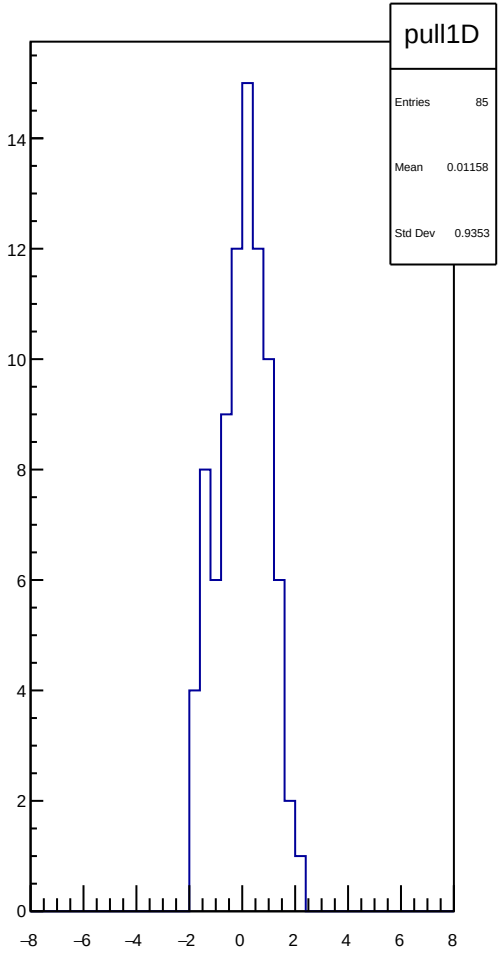

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.012e+04 / 84
p0 251.9 ± 0.1971
340
320
300
280
260
240
220

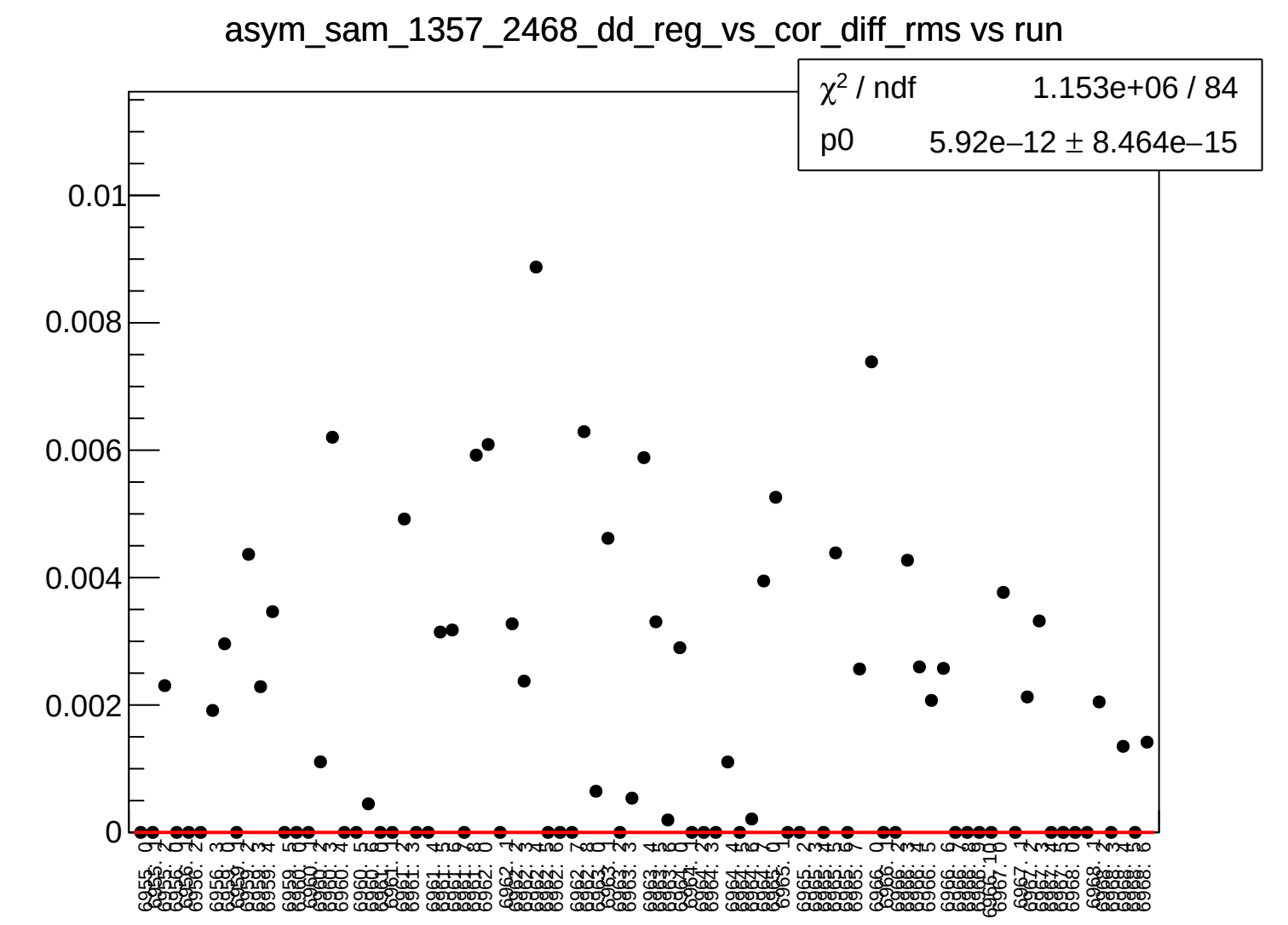

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 91.94 / 84
p0 −108.4 ± 276.3
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −0.8781
Std Dev 8.996
3
2
1
0
−1
−2

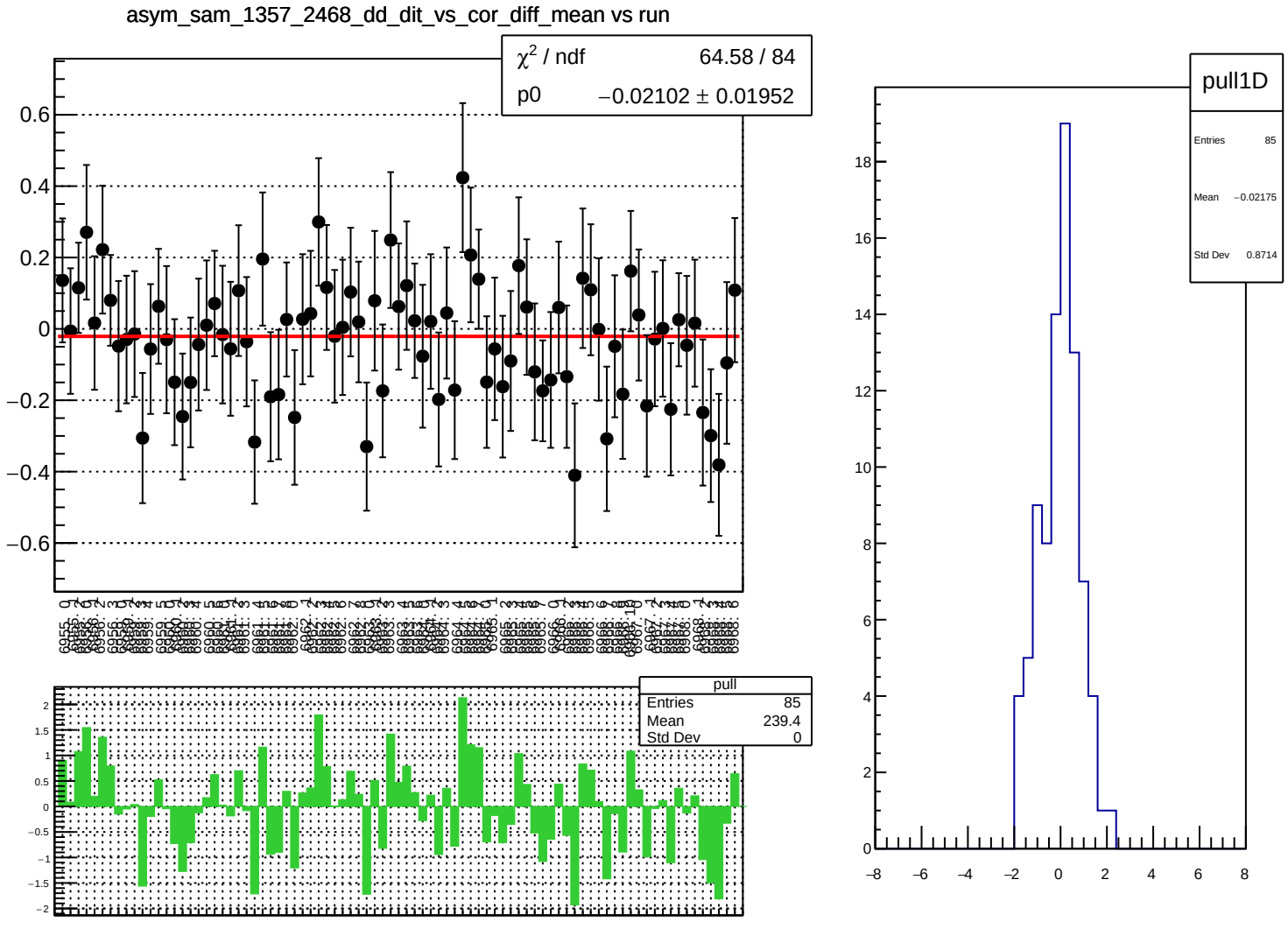

pull1D
Entries 85
Mean 0.01252
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

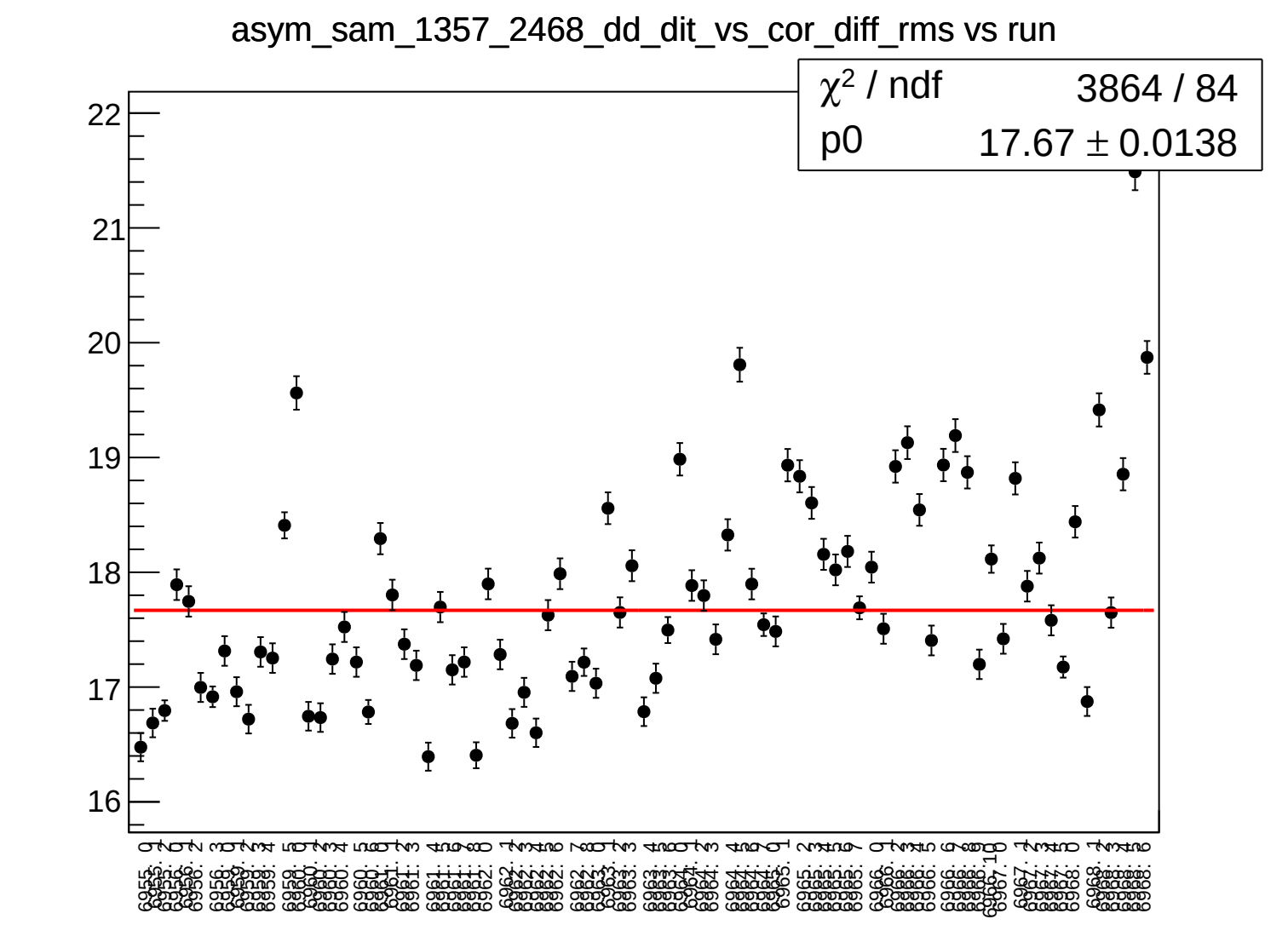

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.329e+04 / 84
p0 249.4 ± 0.1954
360
340
320
300
280
260
240
220

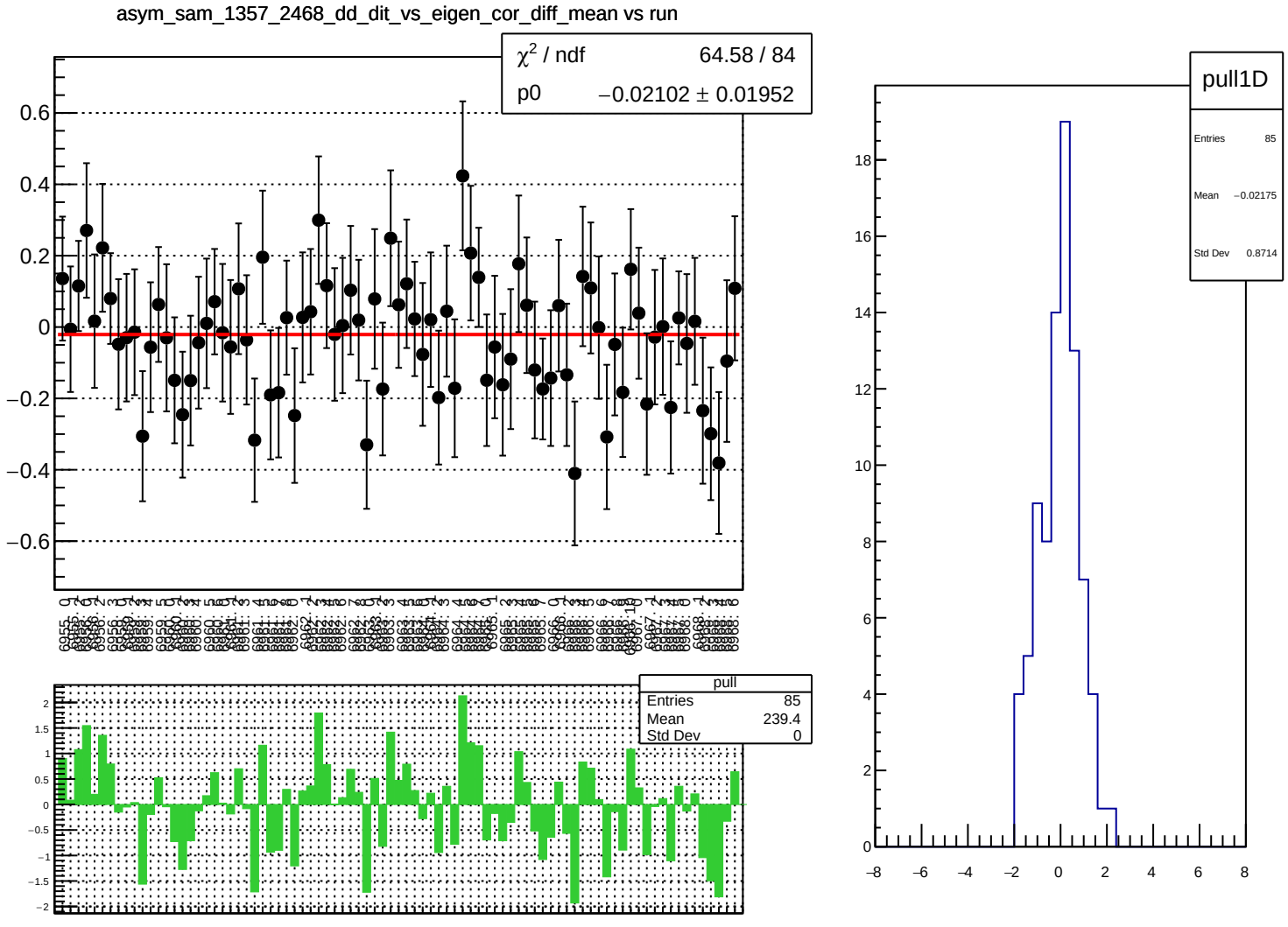

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 74.37 / 84
p0 −2.07e−14 ± 1.197e−14
pull
Entries 85
Mean 162.3
Std Dev 0

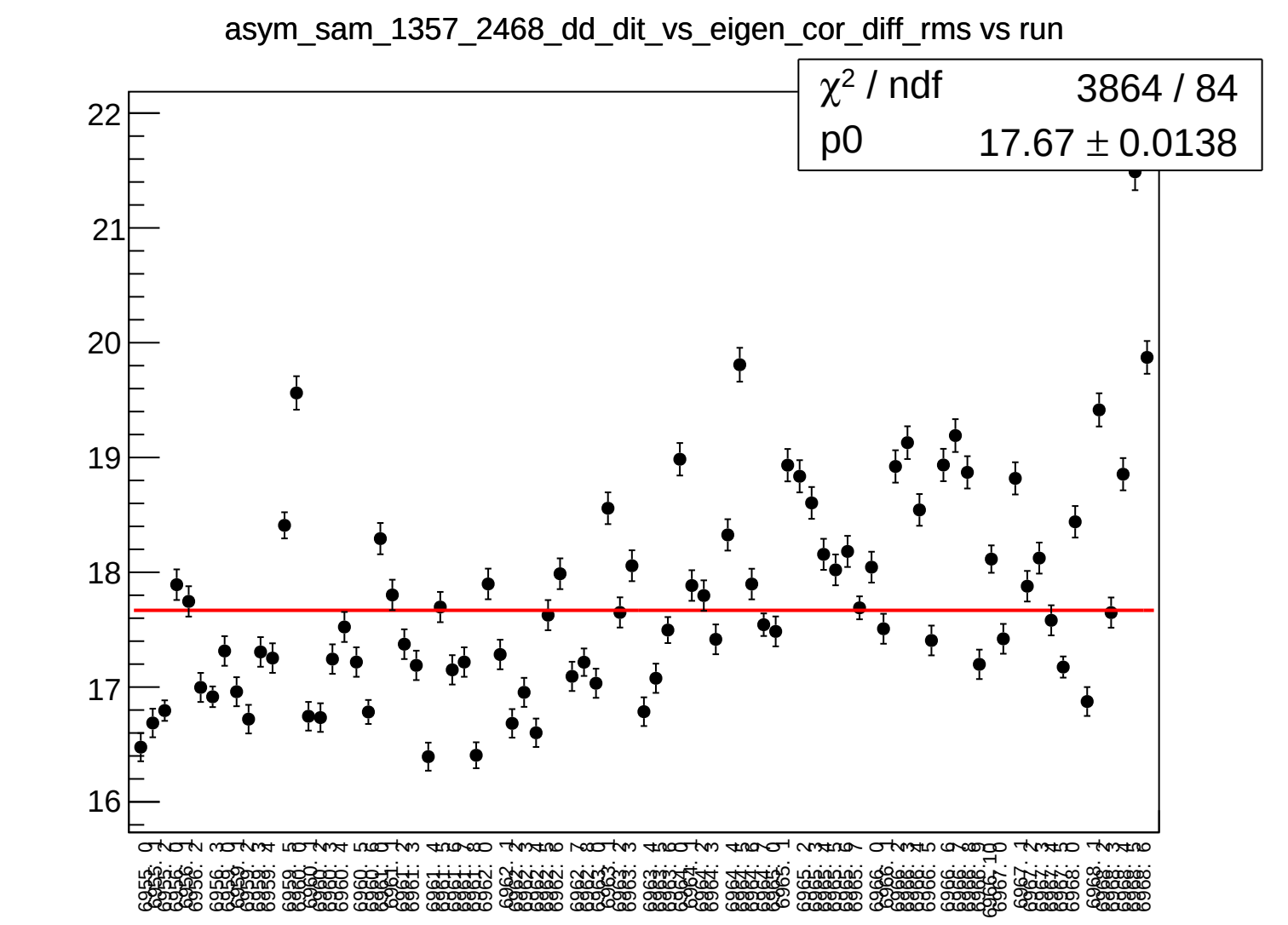

pull1D
Entries 85
Mean 0.01158
Std Dev 0.9353

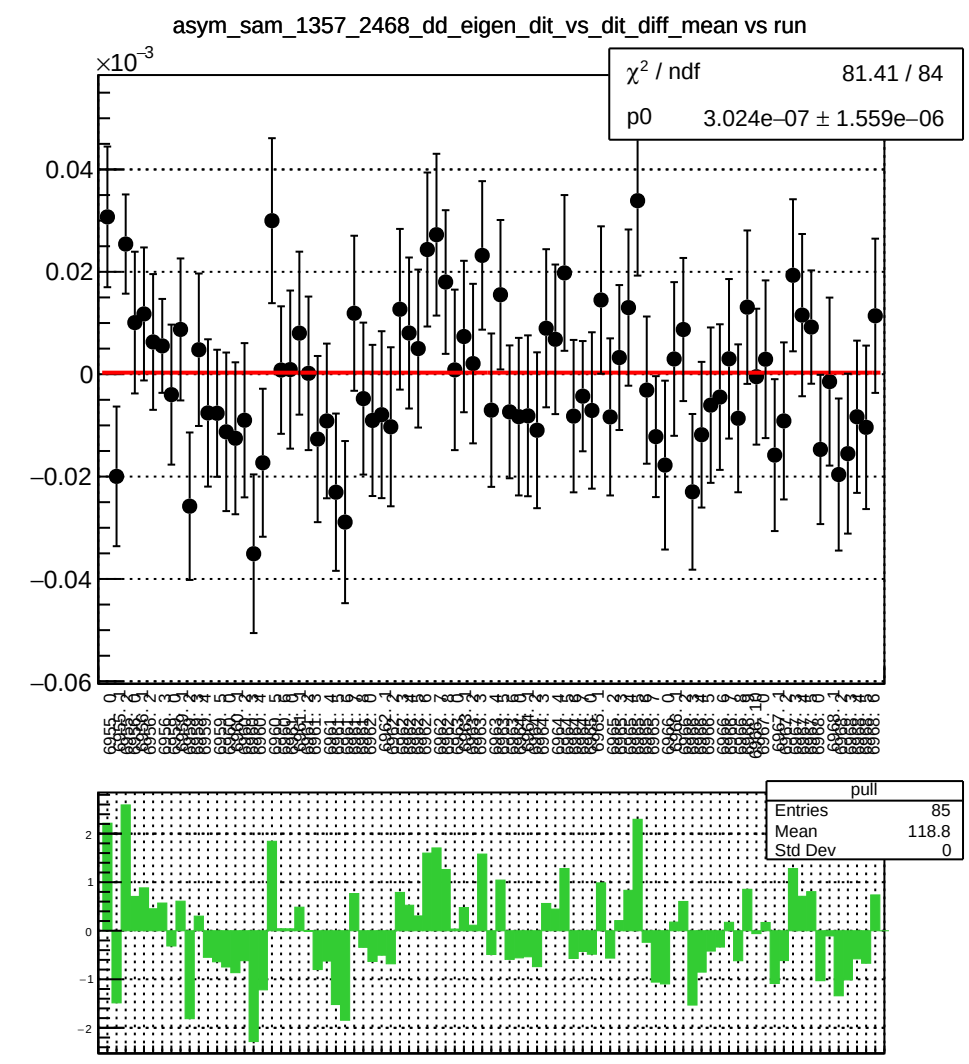

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.153e+06 / 84
p0 5.92e−12 ± 8.464e−15
0.01
0.008
0.006
0.004
0.002
0

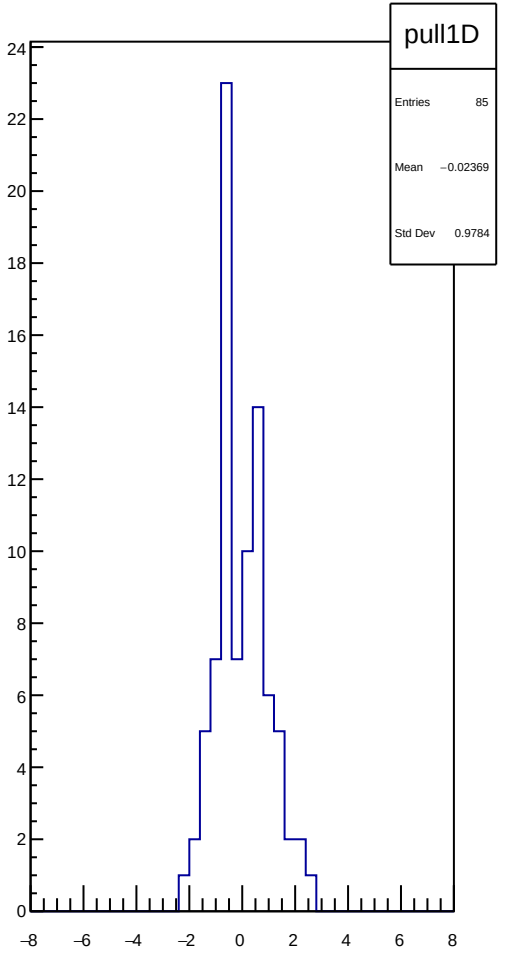

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.58 / 84
p0 −0.02102 ± 0.01952
pull
Entries 85
Mean 239.4
Std Dev 0
pull1D
Entries 85
Mean −0.02175
Std Dev 0.8714

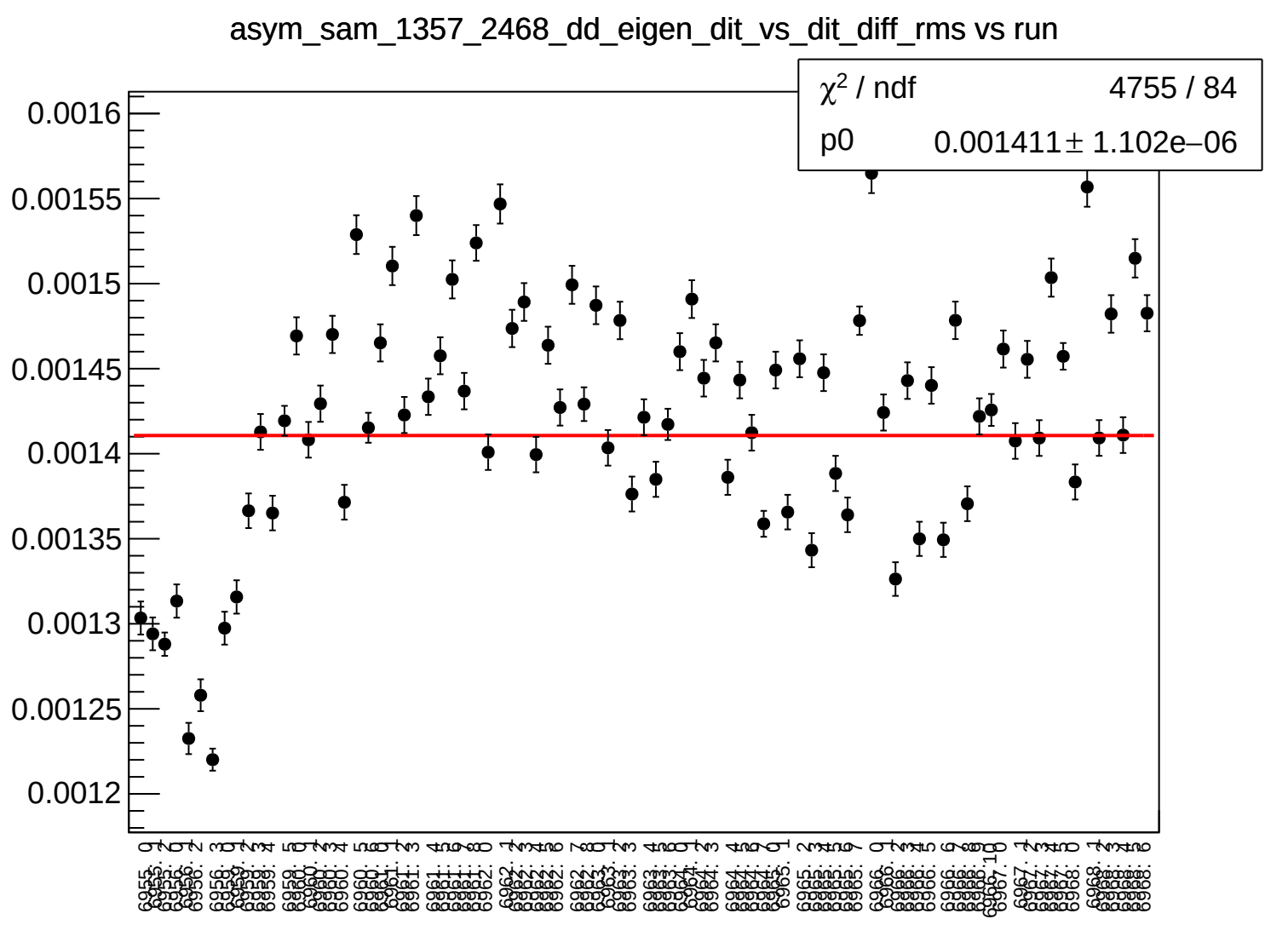

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3864 / 84
p0 17.67 ± 0.0138
22
21
20
19
18
17
16

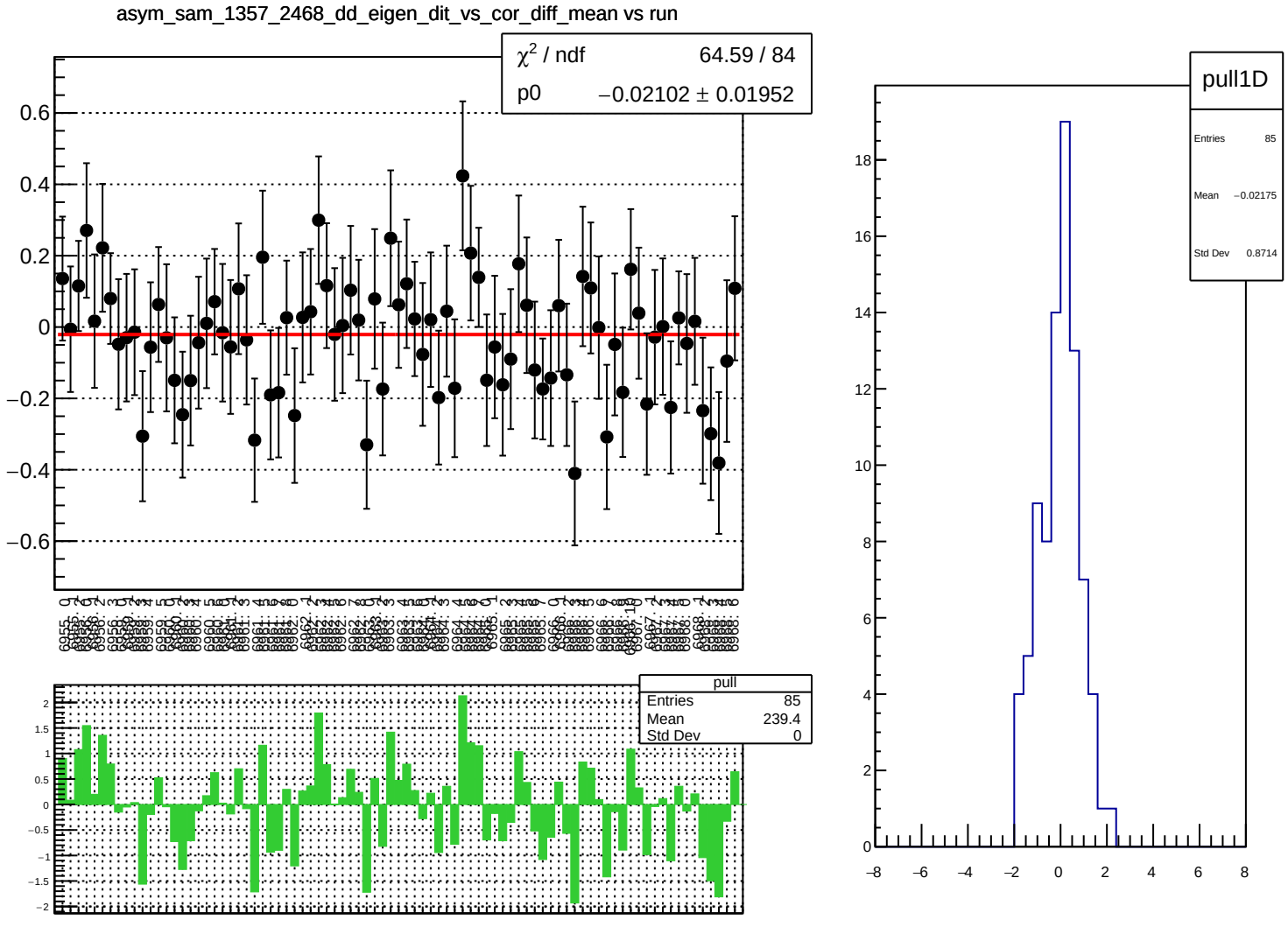

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.58 / 84
p0 −0.02102 ± 0.01952
pull
Entries 85
Mean 239.4
Std Dev 0
pull1D
Entries 85
Mean −0.02175
Std Dev 0.8714

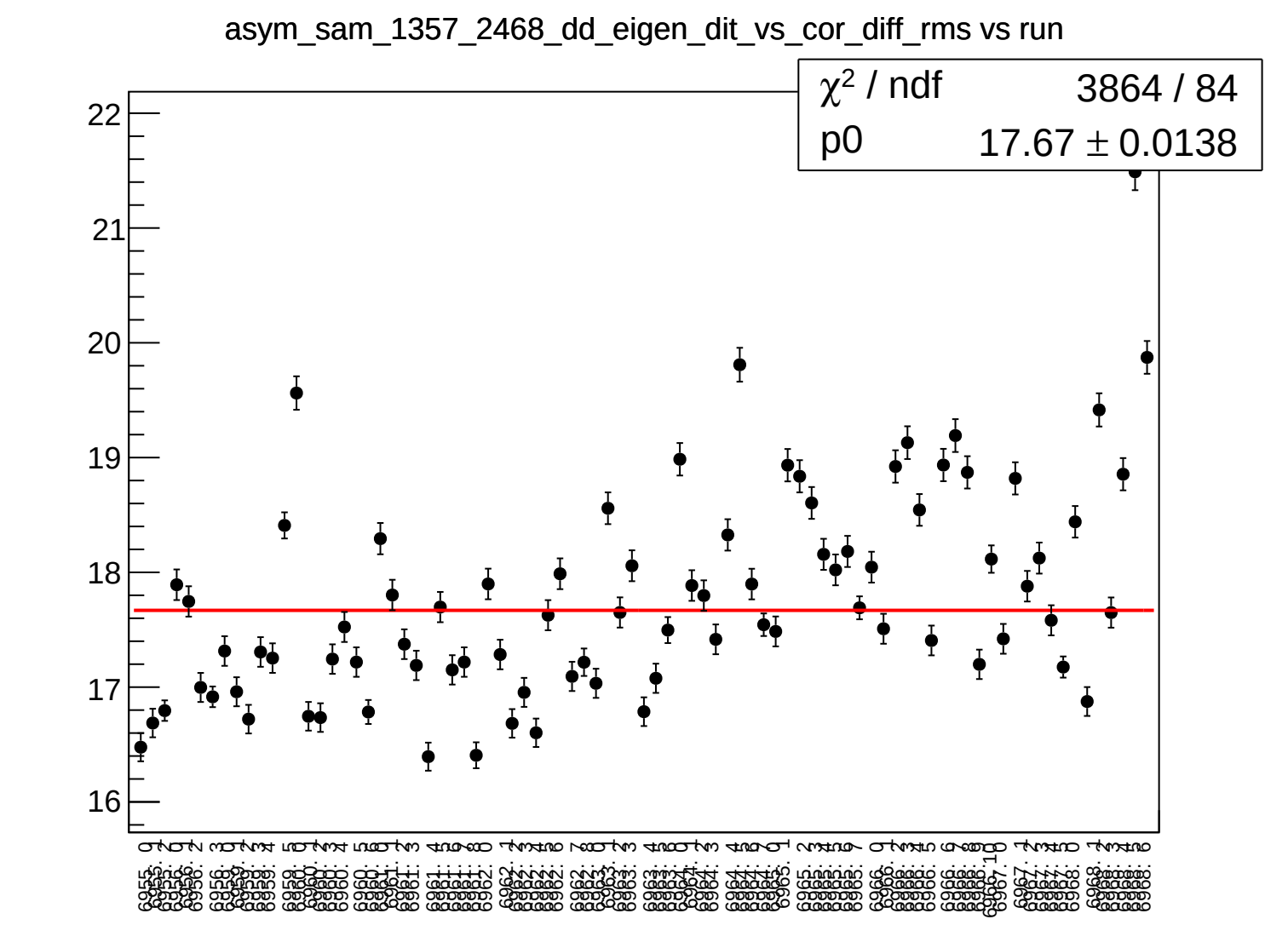

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3864 / 84
p0 17.67 ± 0.0138
22
21
20
19
18
17
16

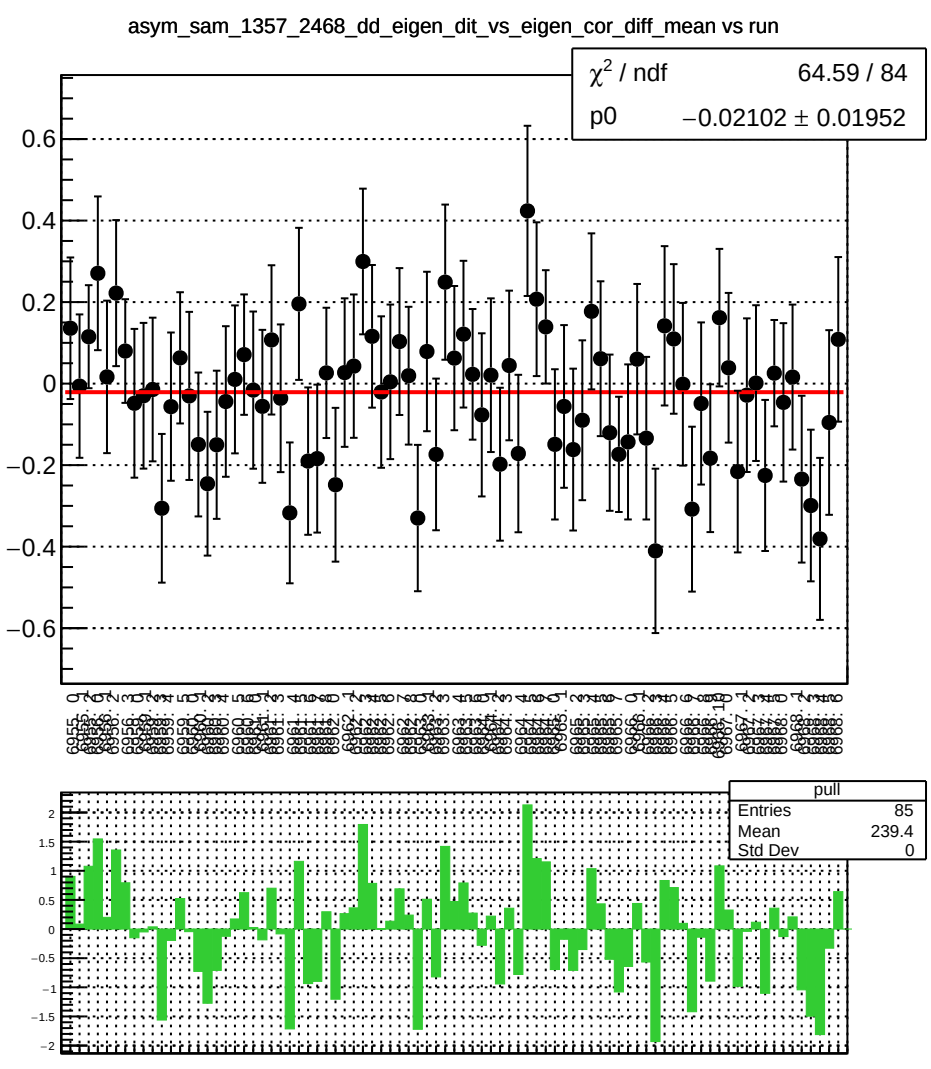

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.41 / 84
p0 3.024e−07 ± 1.559e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 85
Mean 118.8
Std Dev 0
2
1
0
−1
−2

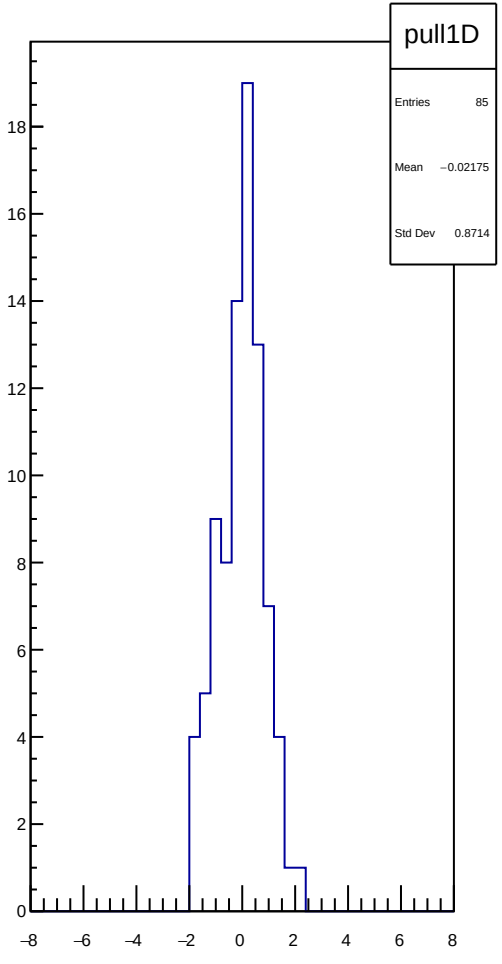

pull1D
Entries 85
Mean −0.02369
Std Dev 0.9784
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

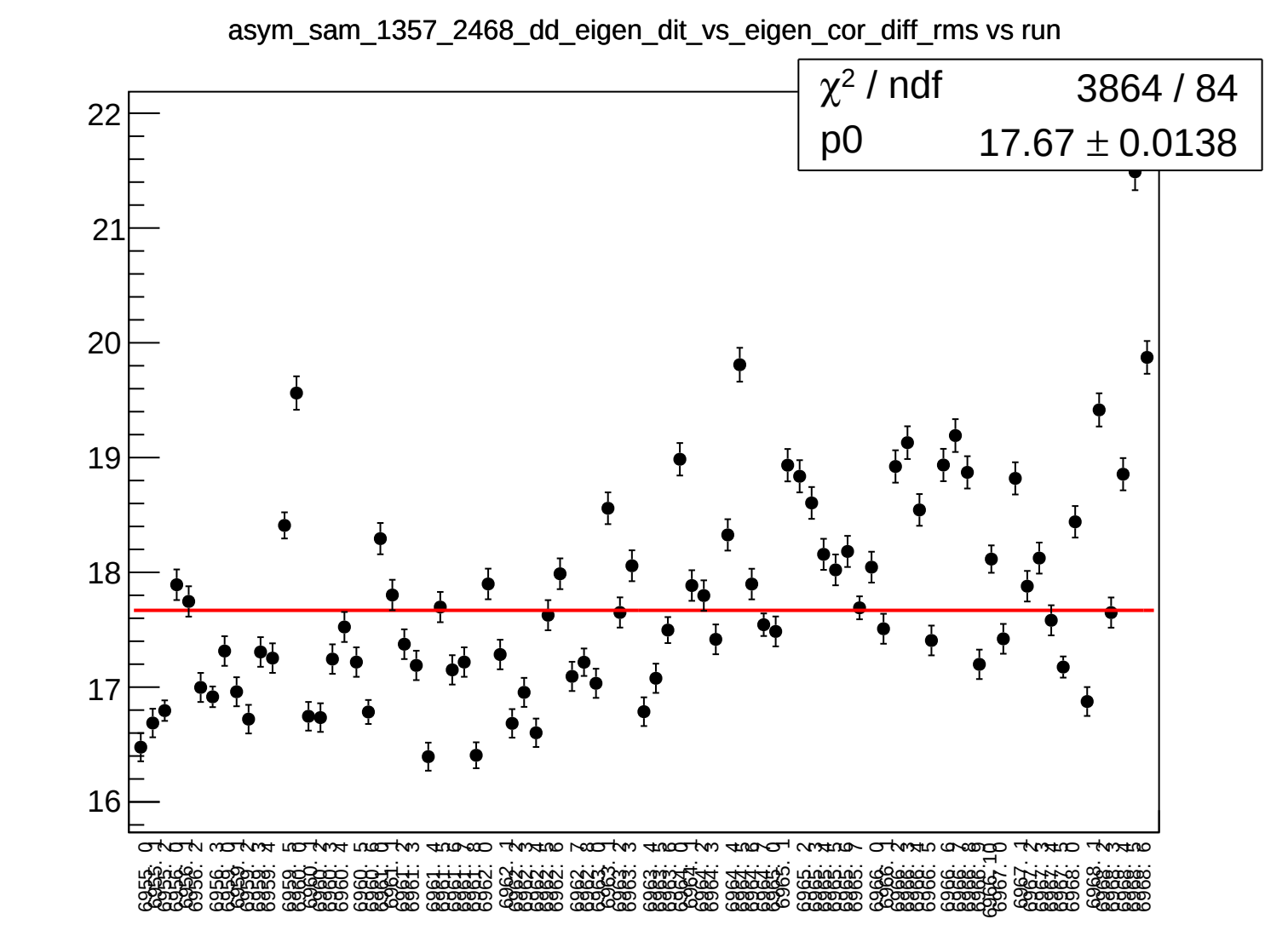

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4755 / 84
p0 0.001411 ± 1.102e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012

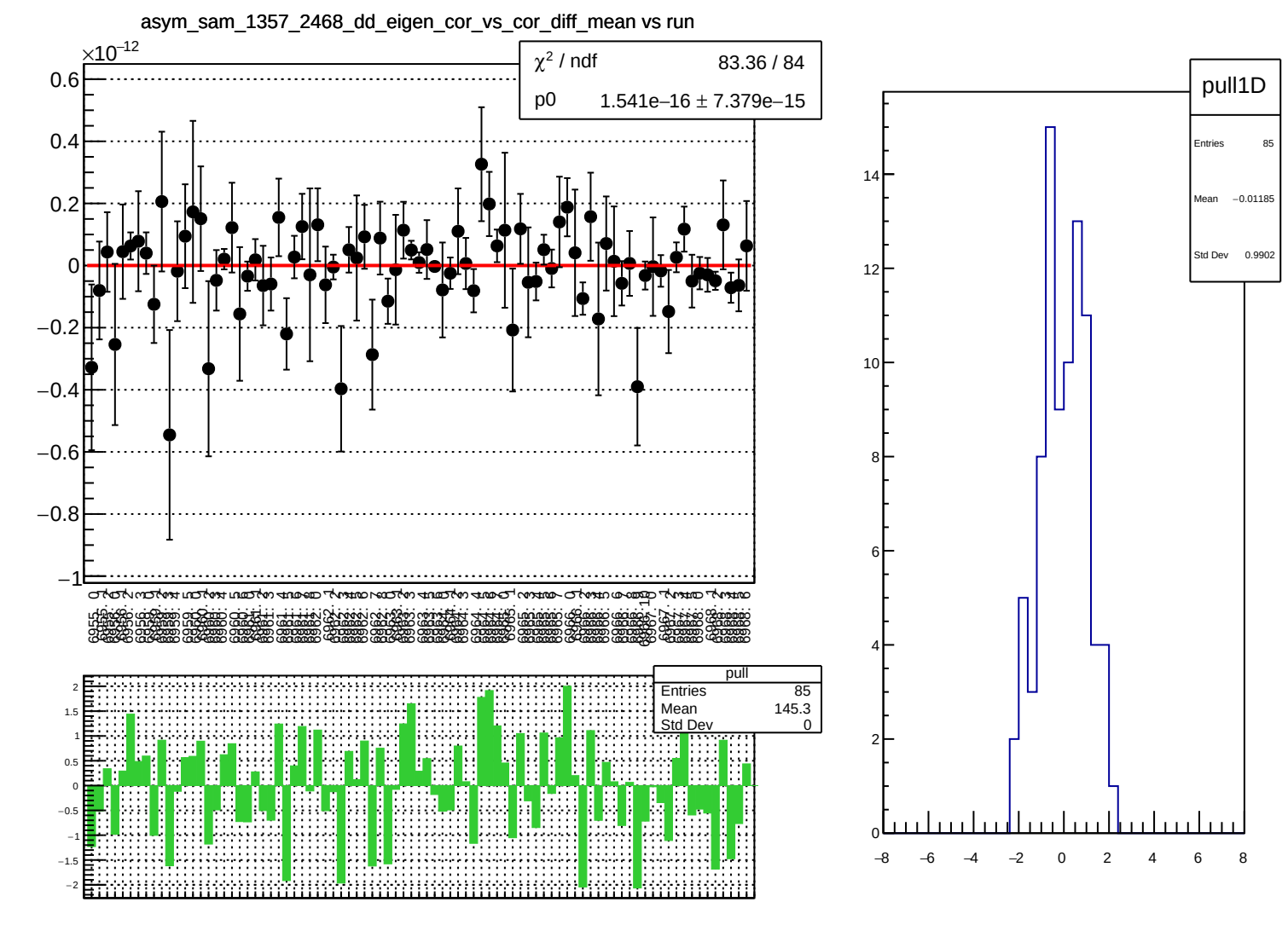

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.59 / 84
p0 −0.02102 ± 0.01952
pull
Entries 85
Mean 239.4
Std Dev 0
pull1D
Entries 85
Mean −0.02175
Std Dev 0.8714

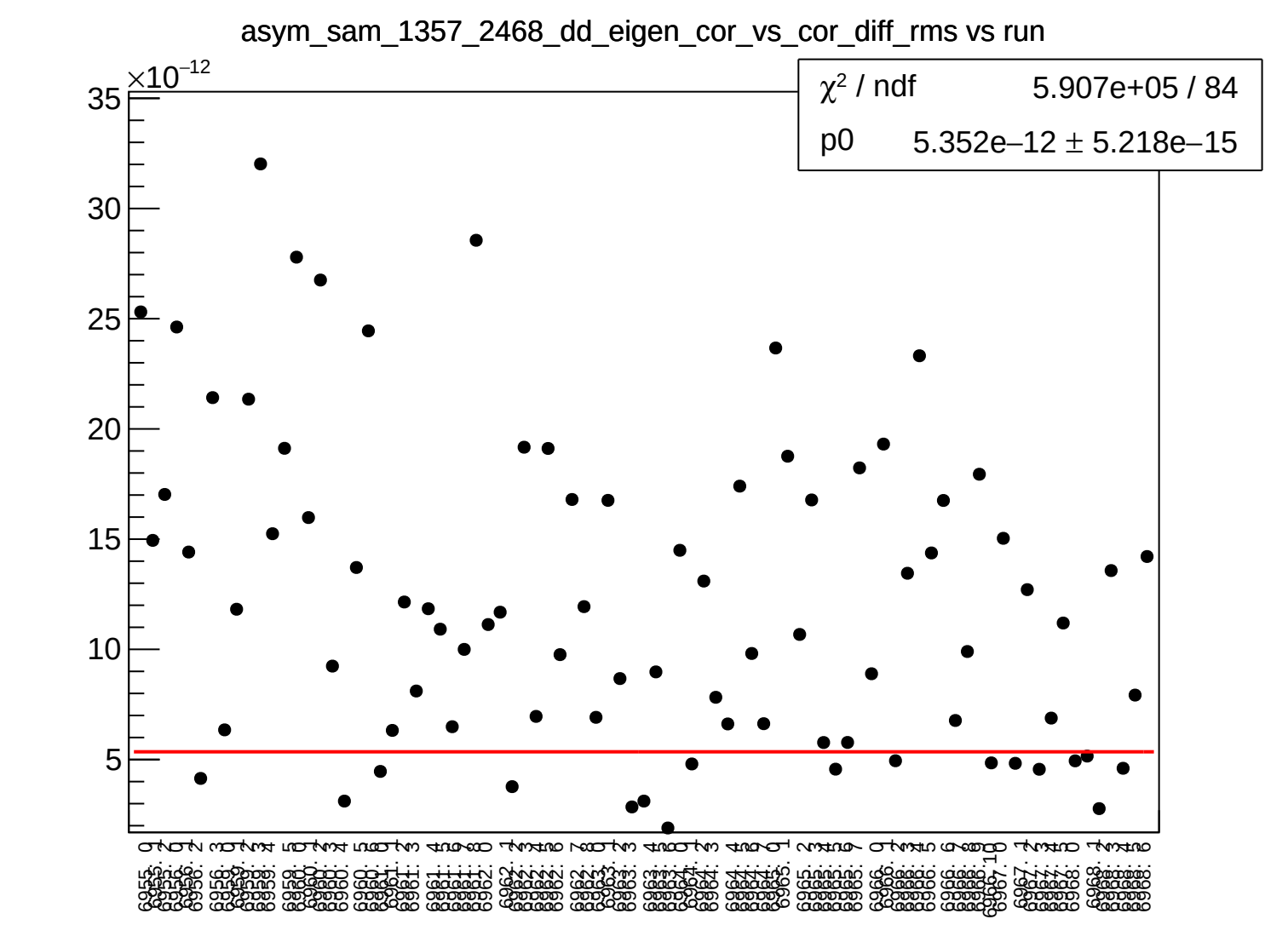

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3864 / 84
p0 17.67 ± 0.0138
22
21
20
19
18
17
16

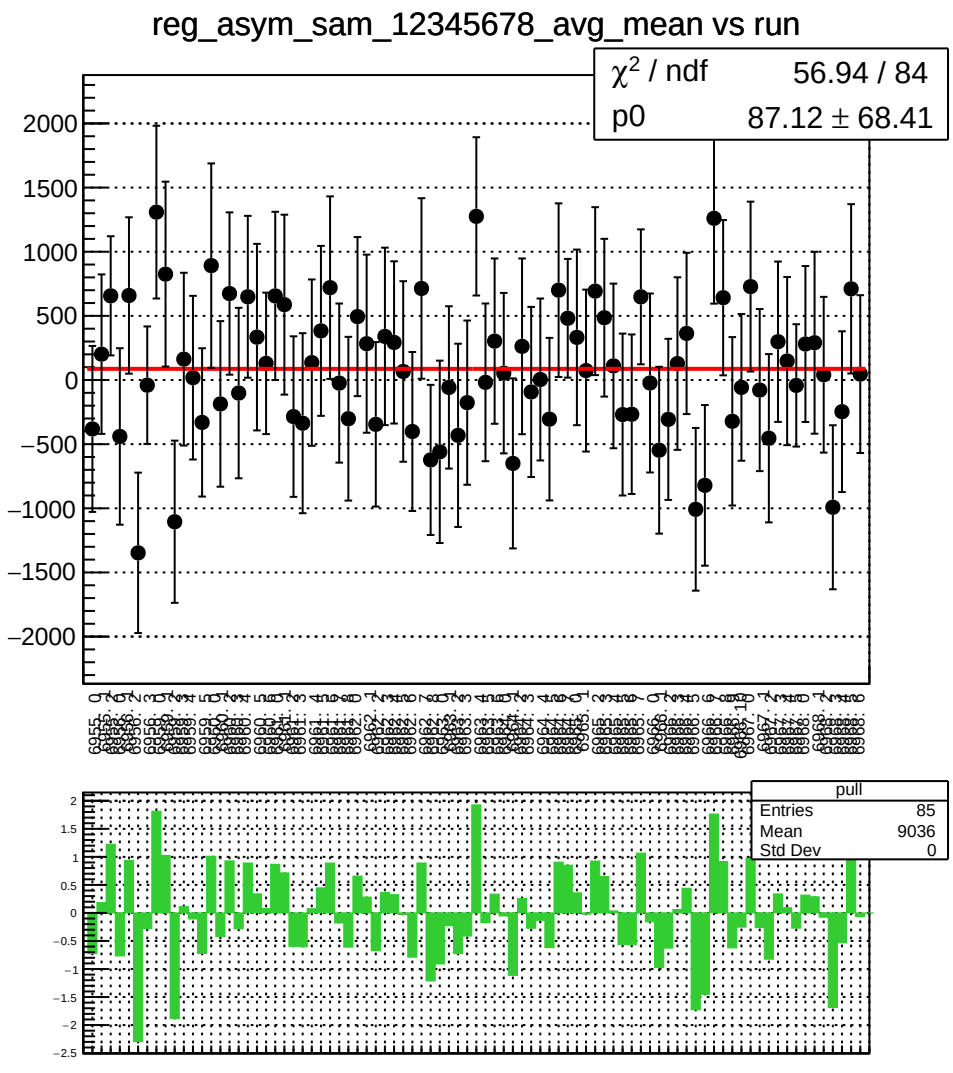

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.59 / 84
p0 −0.02102 ± 0.01952
pull
Entries 85
Mean 239.4
Std Dev 0

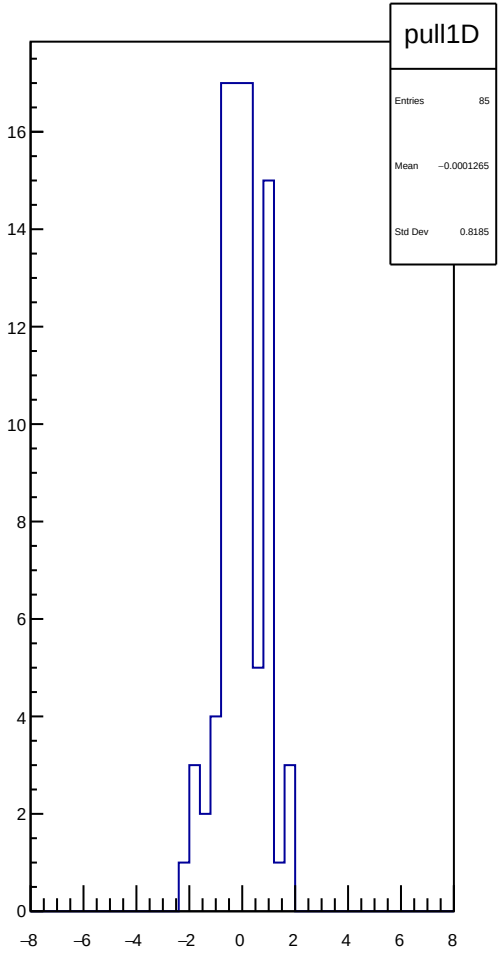

pull1D
Entries 85
Mean −0.02175
Std Dev 0.8714

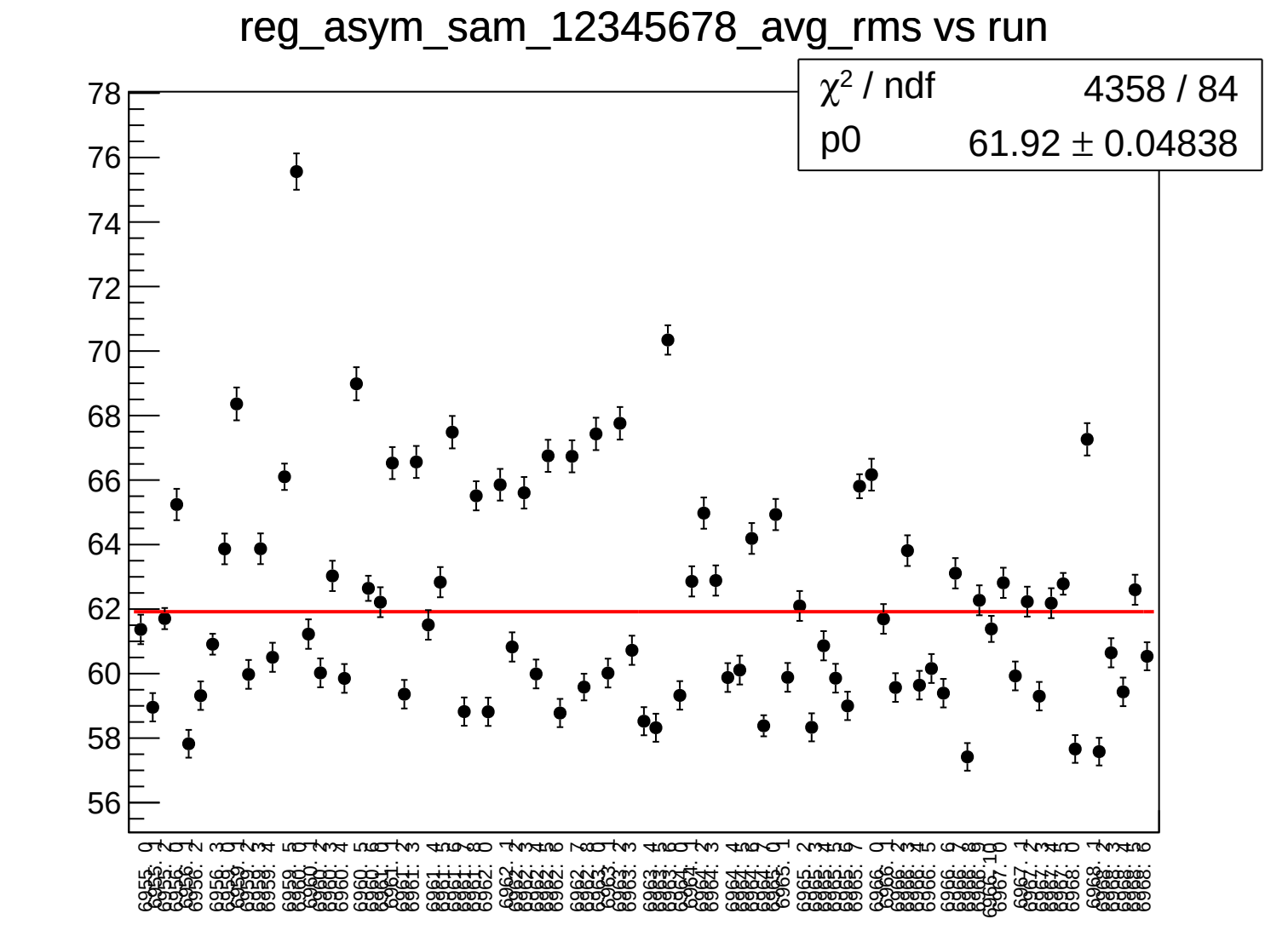

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3864 / 84
p0 17.67 ± 0.0138
22
21
20
19
18
17
16

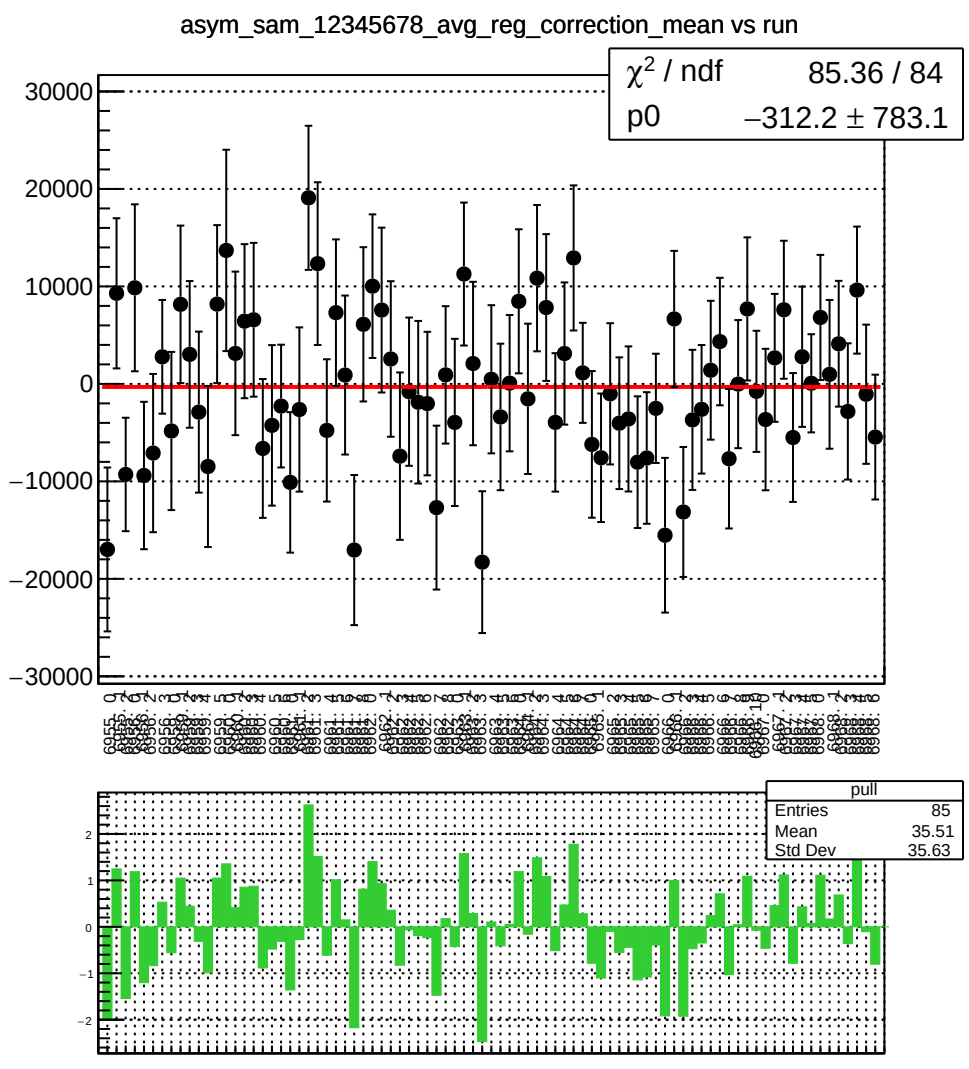

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.36 / 84
p0 1.541e−16 ± 7.379e−15
pull
Entries 85
Mean 145.3
Std Dev 0
pull1D
Entries 85
Mean −0.01185
Std Dev 0.9902

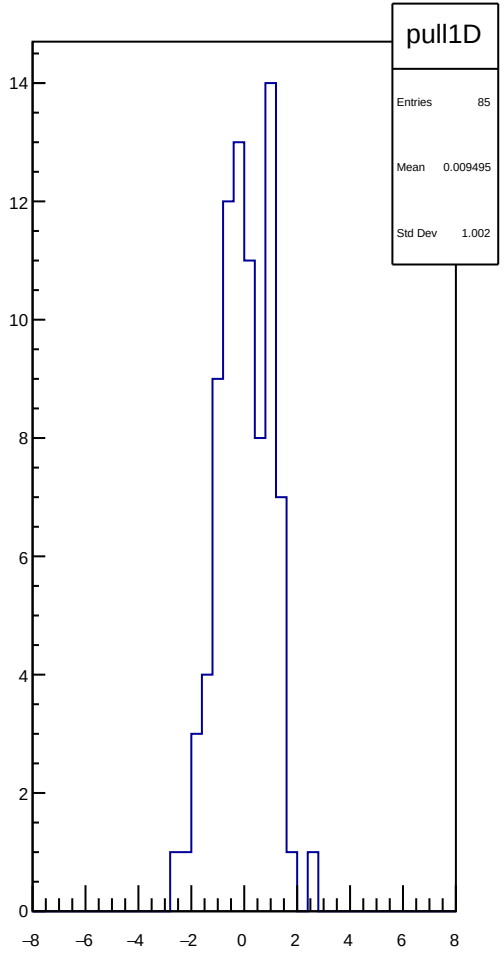

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.907e+05 / 84
p0 5.352e−12 ± 5.218e−15
35
30
25
20
15
10
5

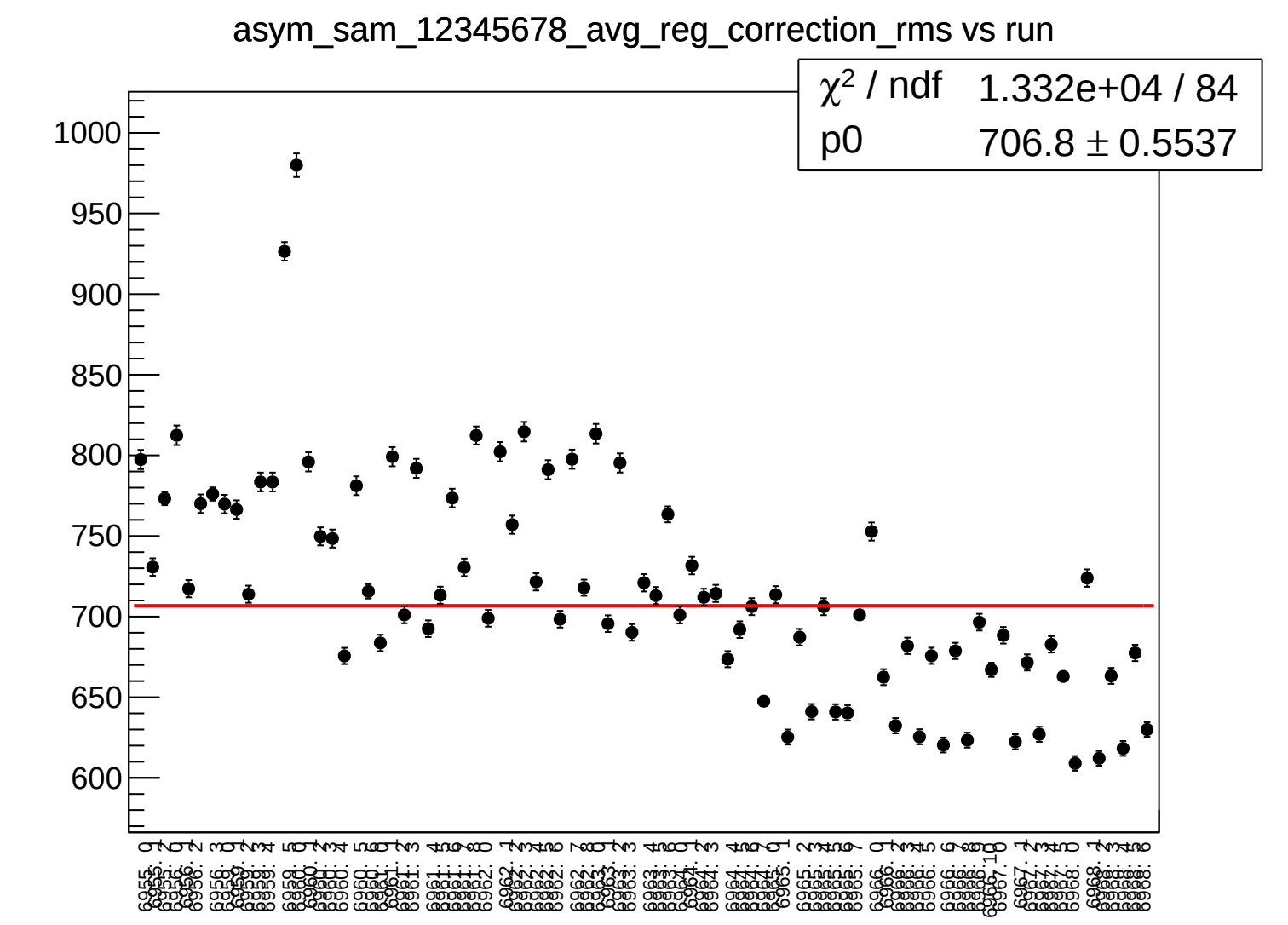

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 56.94 / 84
p0 87.12 ± 68.41
pull
Entries 85
Mean 9036
Std Dev 0

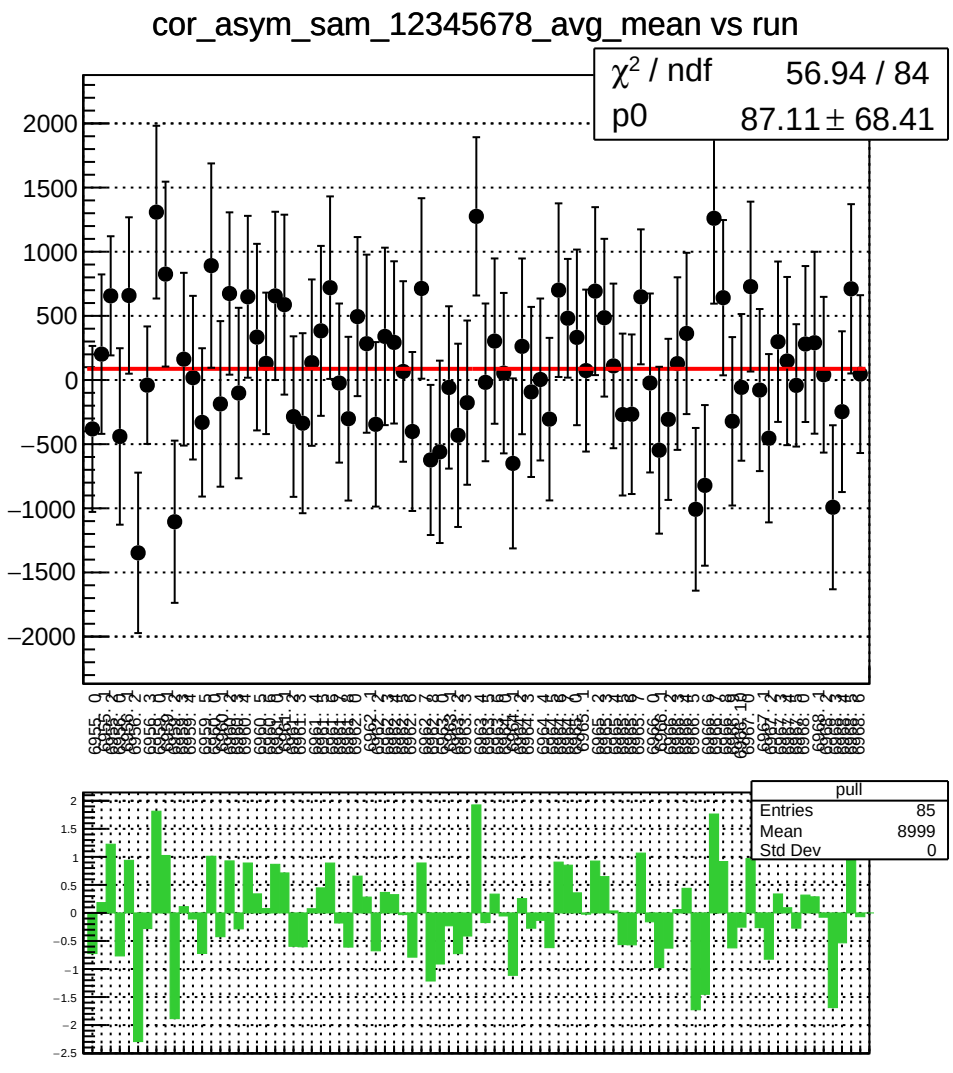

pull1D
Entries 85
Mean −0.0001265
Std Dev 0.8185

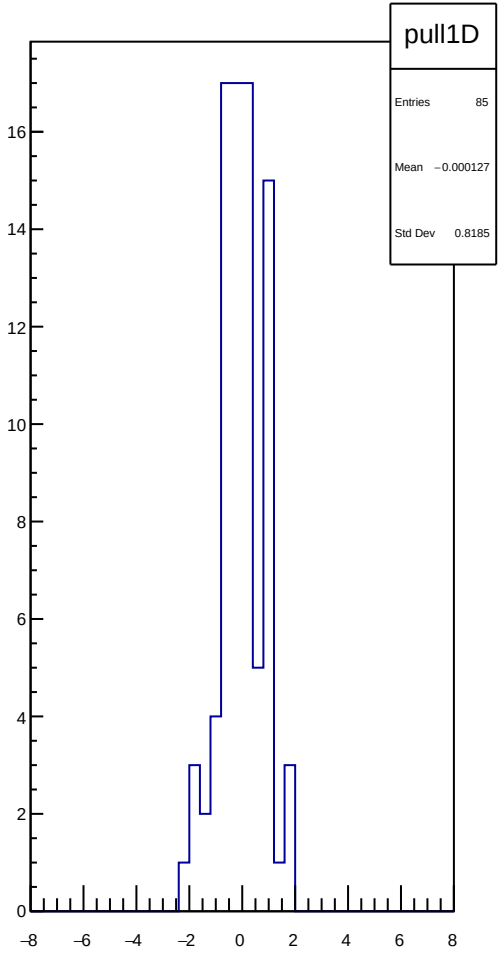

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 4358 / 84
p0 61.92 ± 0.04838
78
76
74
72
70
68
66
64
62
60
58
56

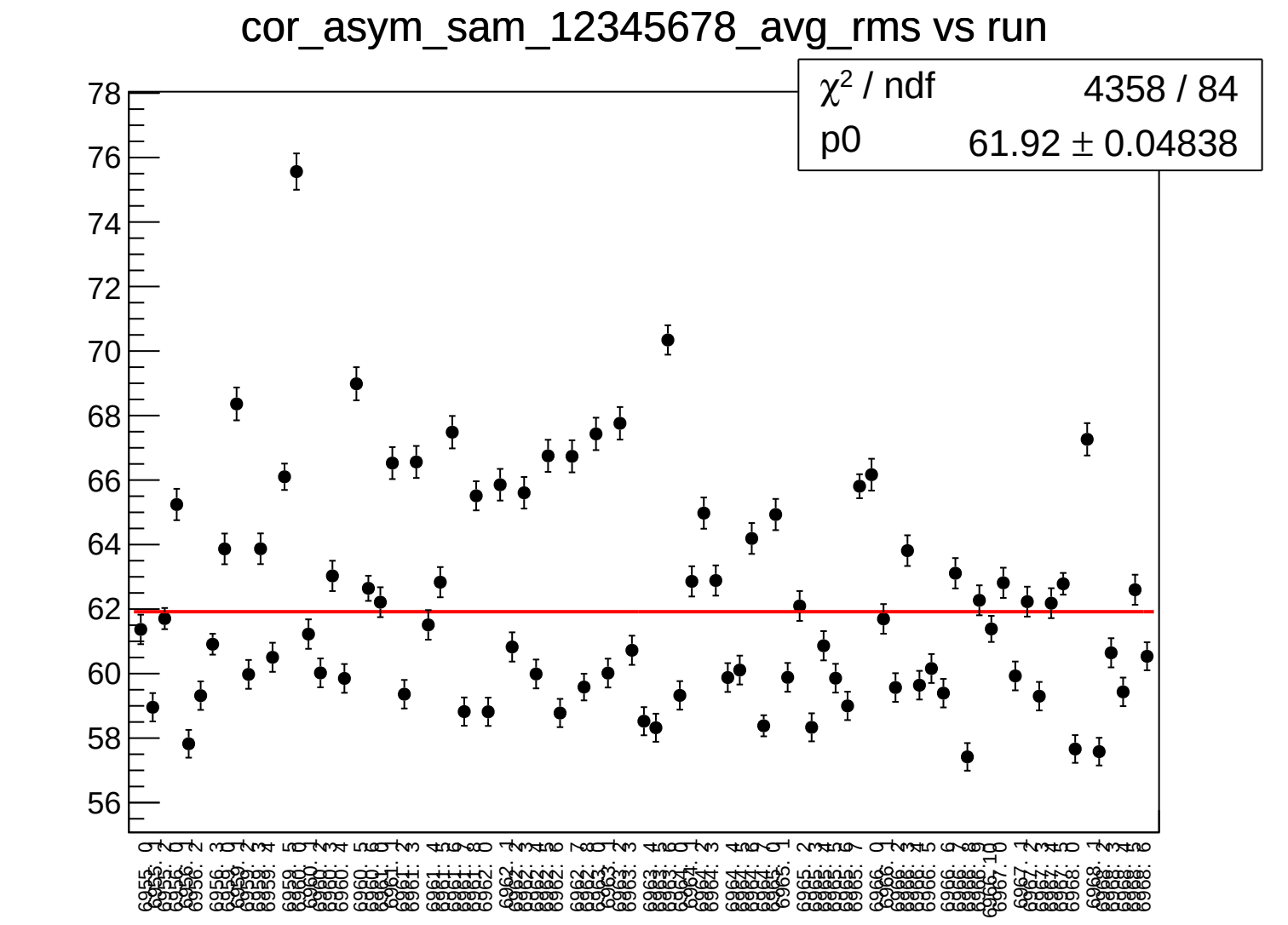

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 85.36 / 84
p0 −312.2 ± 783.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 35.51
Std Dev 35.63
2
1
0
−1
−2

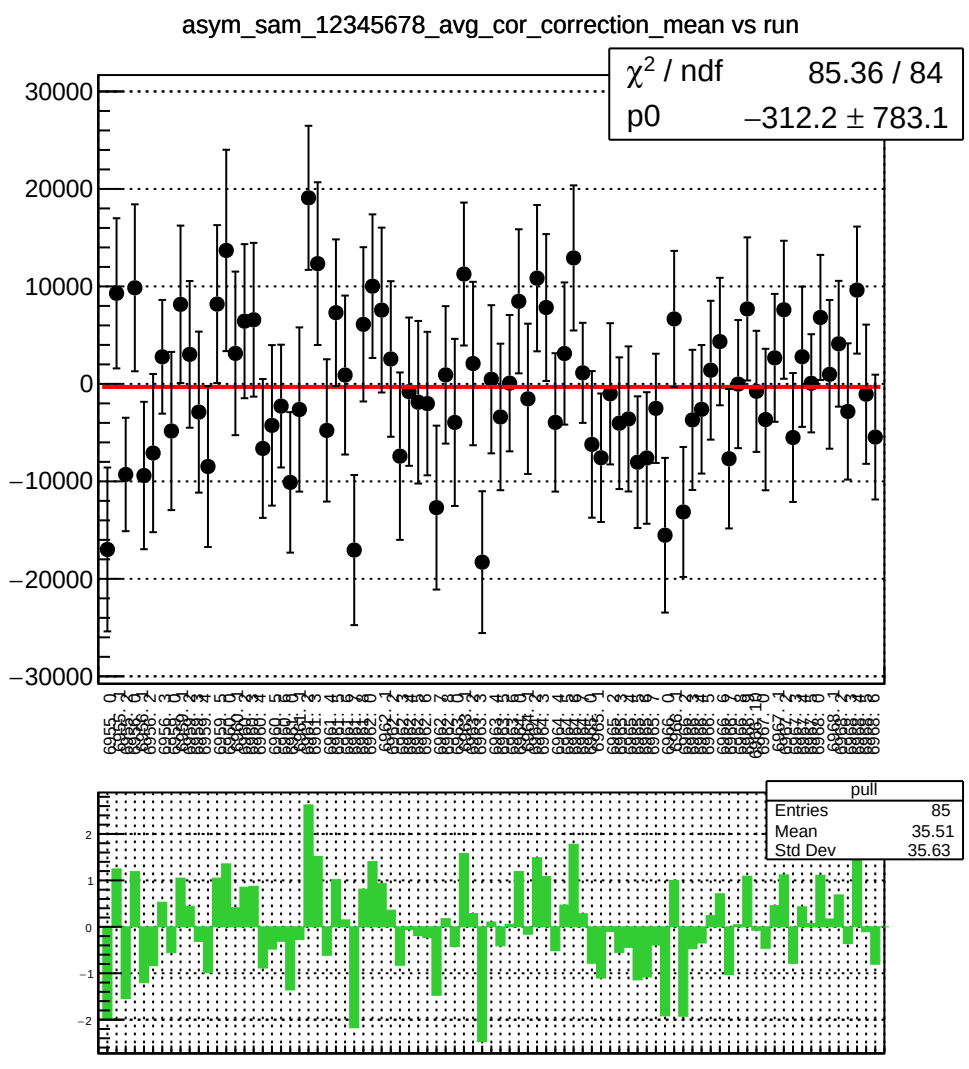

pull1D
Entries 85
Mean 0.009495
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

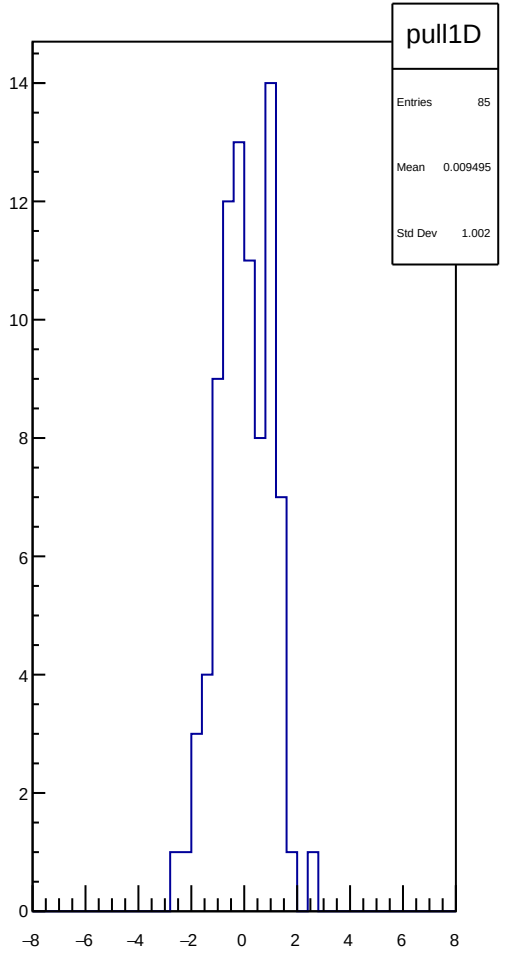

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.332e+04 / 84
p0 706.8 ± 0.5537
1000
950
900
850
800
750
700
650
600

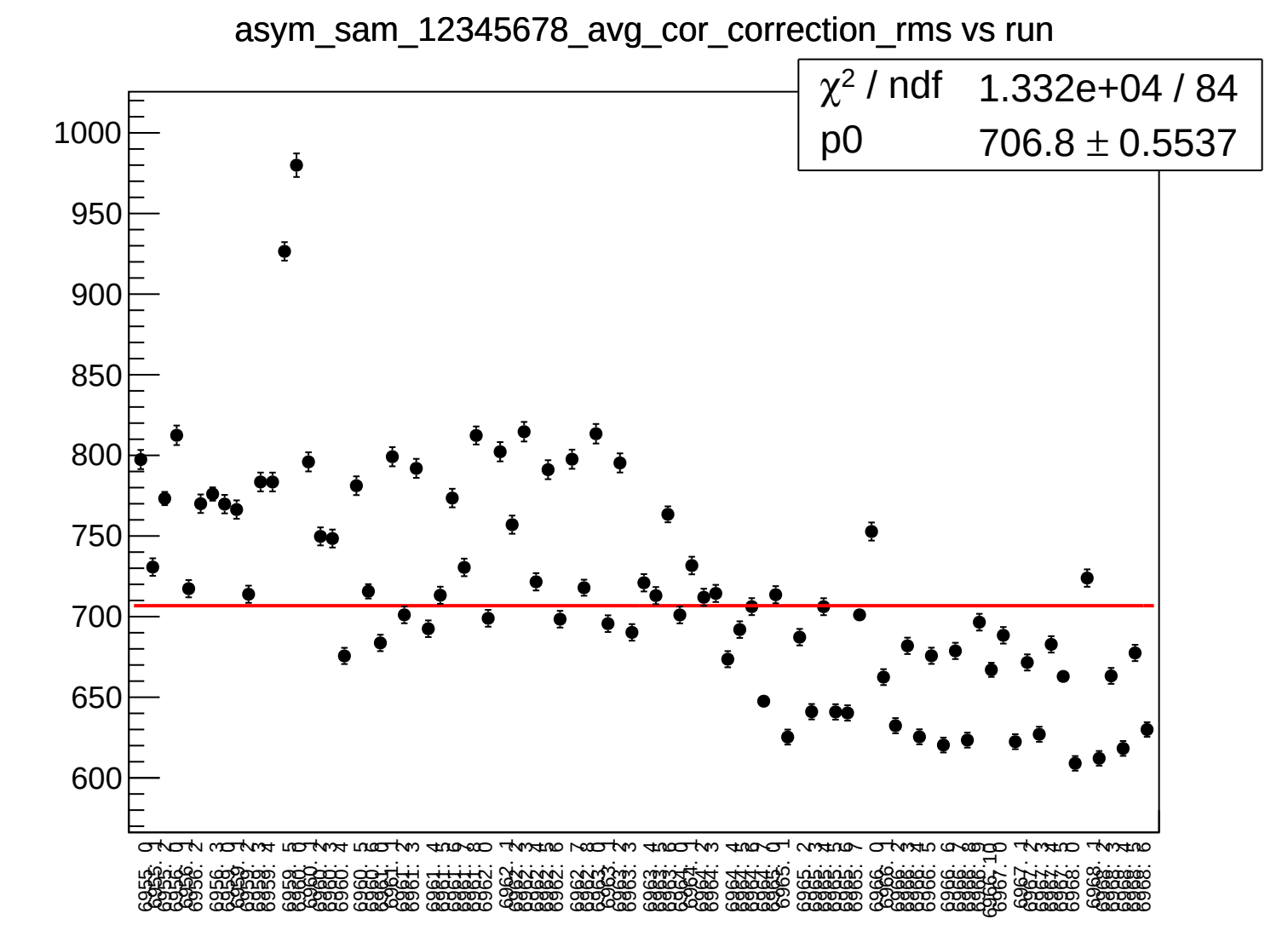

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 56.94 / 84
p0 87.11 ± 68.41
pull
Entries 85
Mean 8999
Std Dev 0

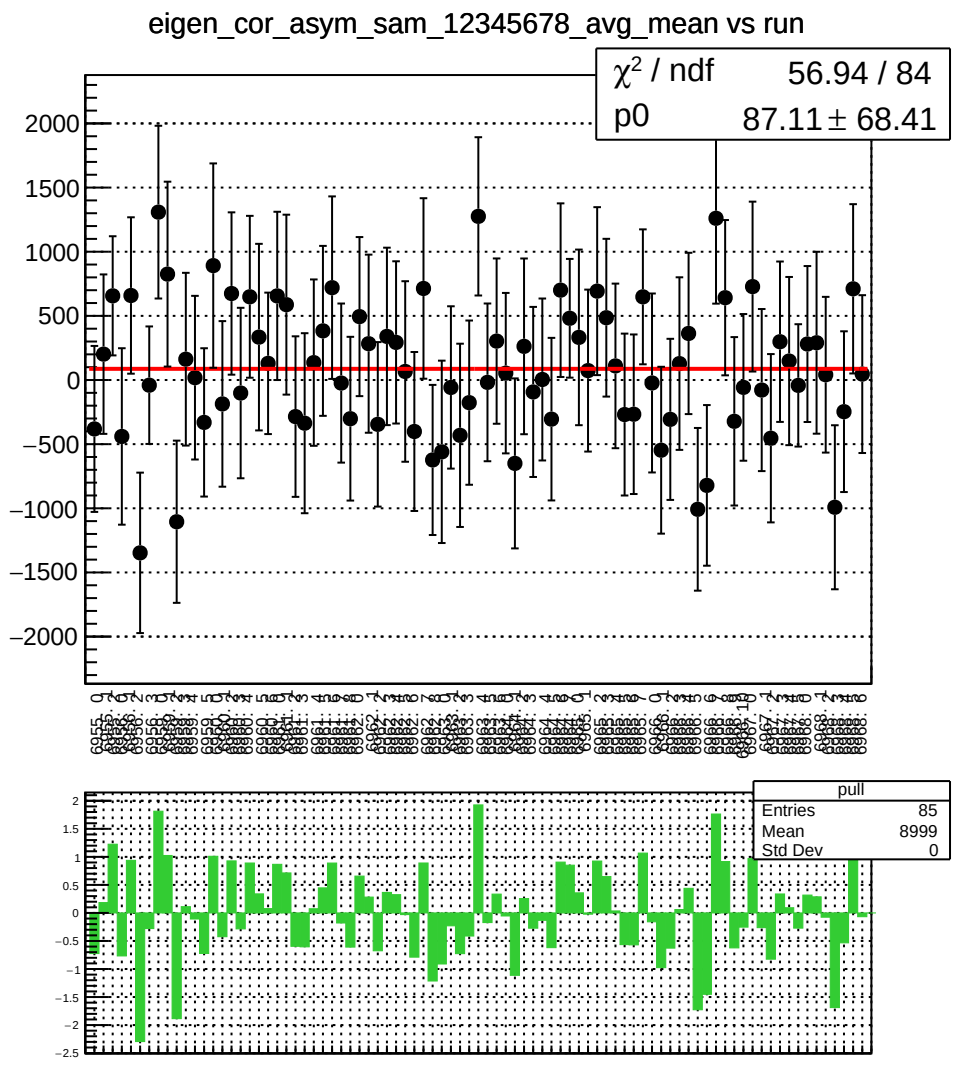

pull1D
Entries 85
Mean −0.000127
Std Dev 0.8185

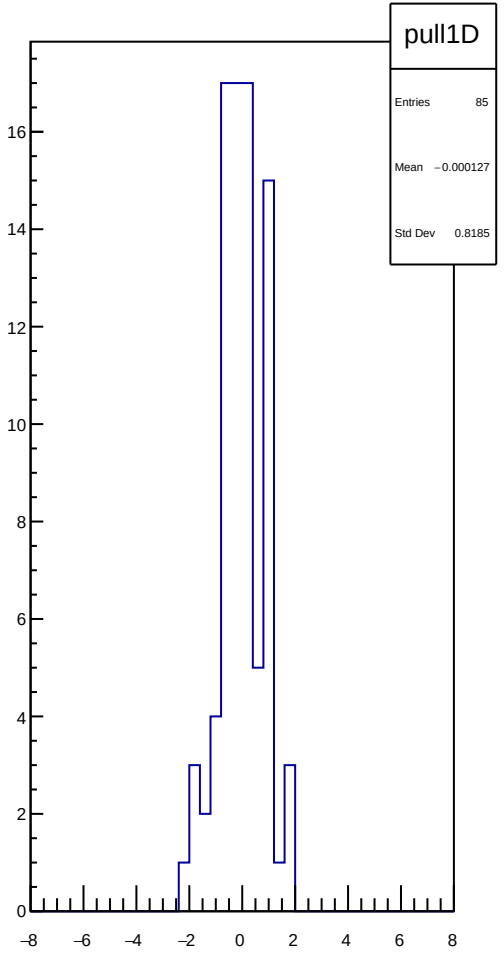

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4358 / 84
p0 61.92 ± 0.04838
78
76
74
72
70
68
66
64
62
60
58
56

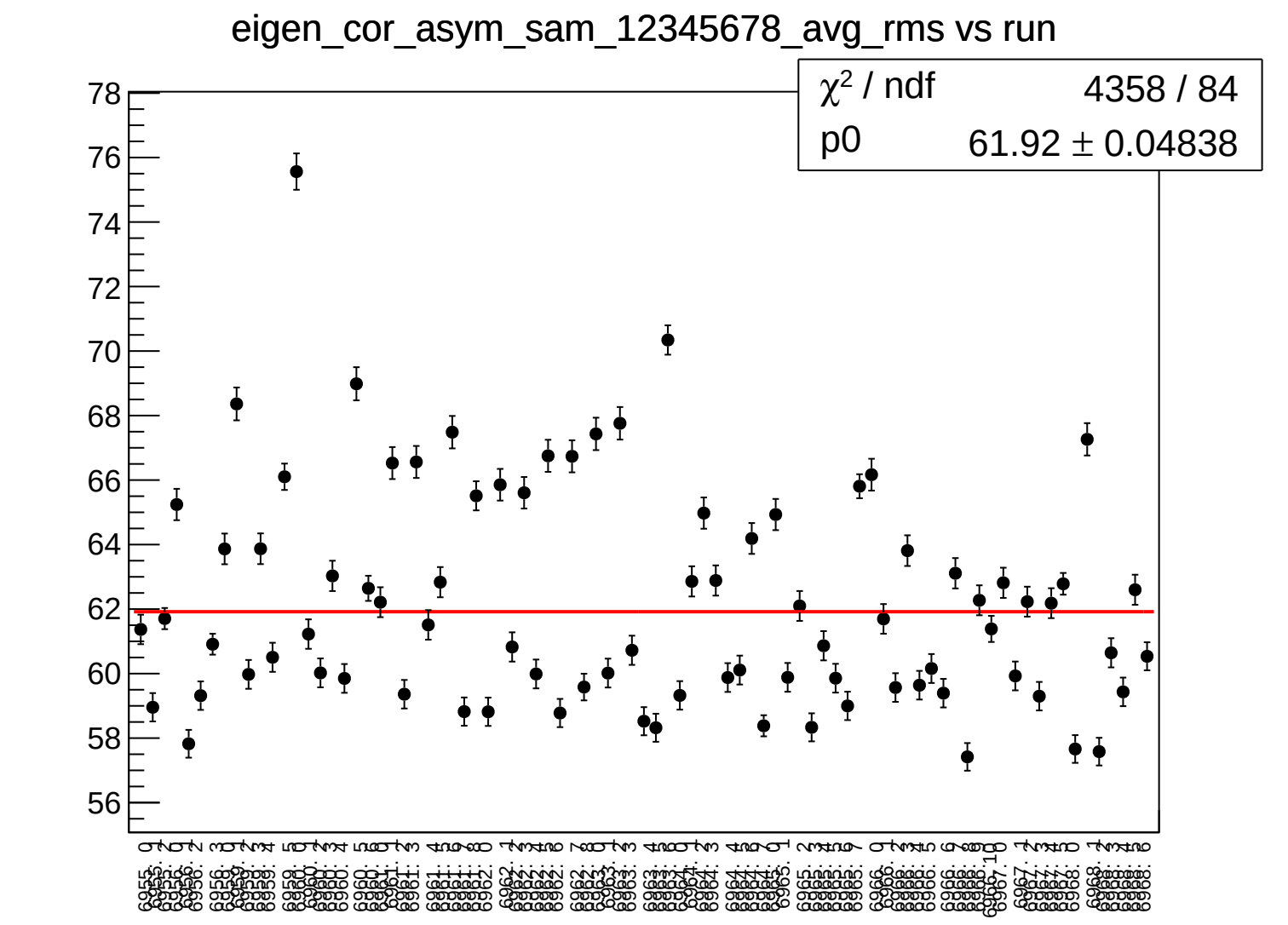

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 85.36 / 84
p0 −312.2 ± 783.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 35.51
Std Dev 35.63
2
1
0
−1
−2

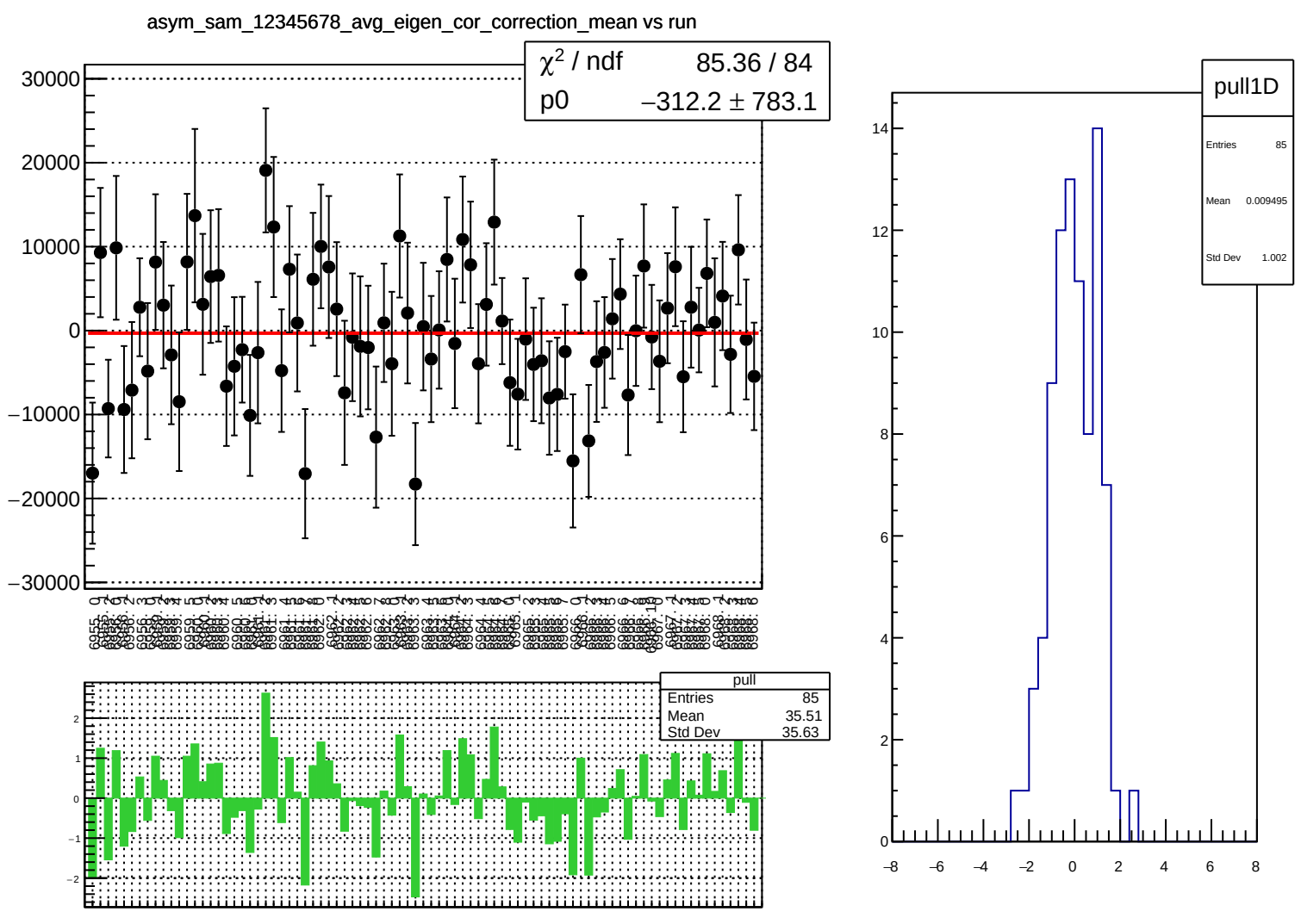

pull1D
Entries 85
Mean 0.009495
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

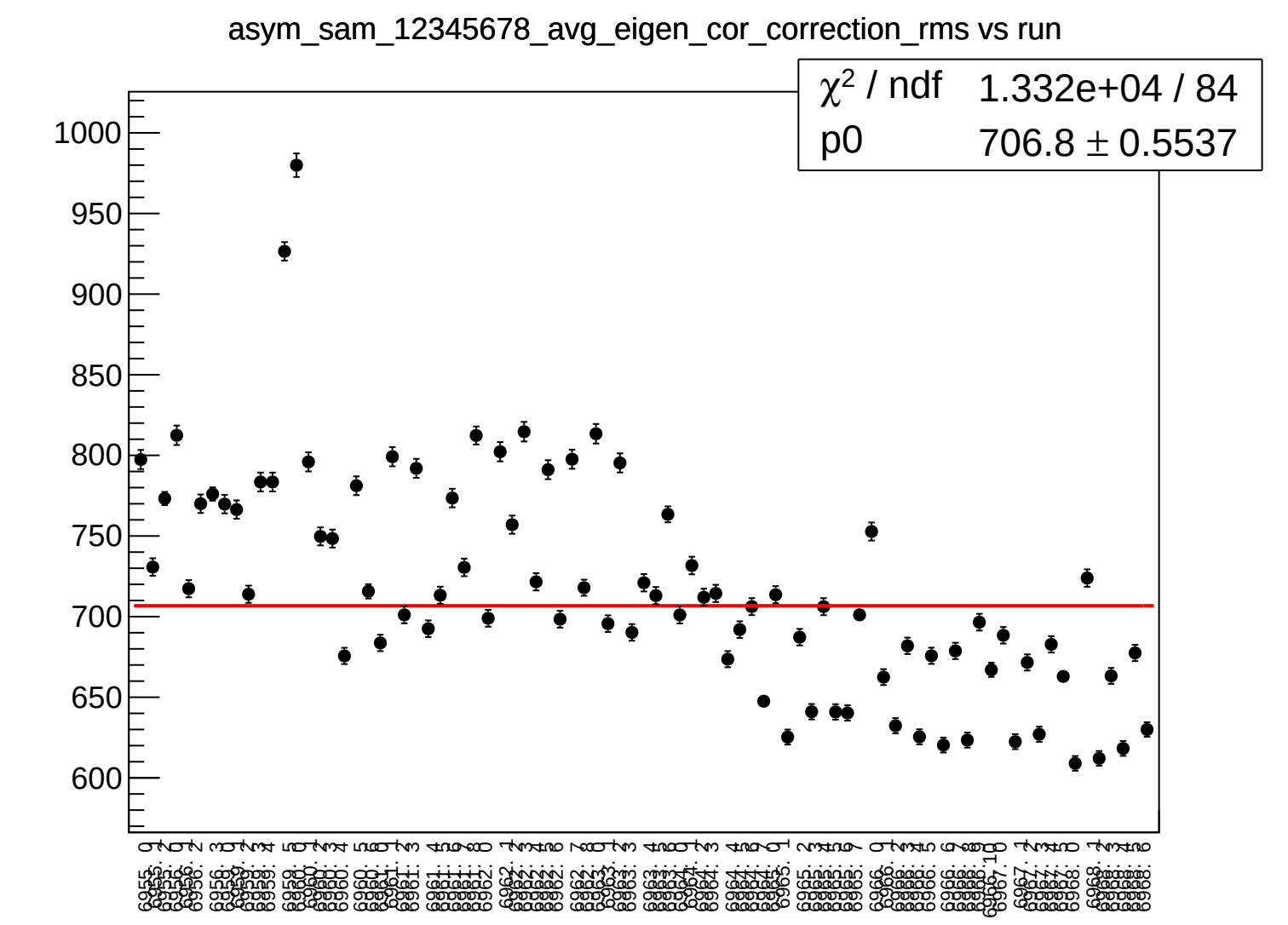

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.332e+04 / 84
p0 706.8 ± 0.5537
1000
950
900
850
800
750
700
650
600

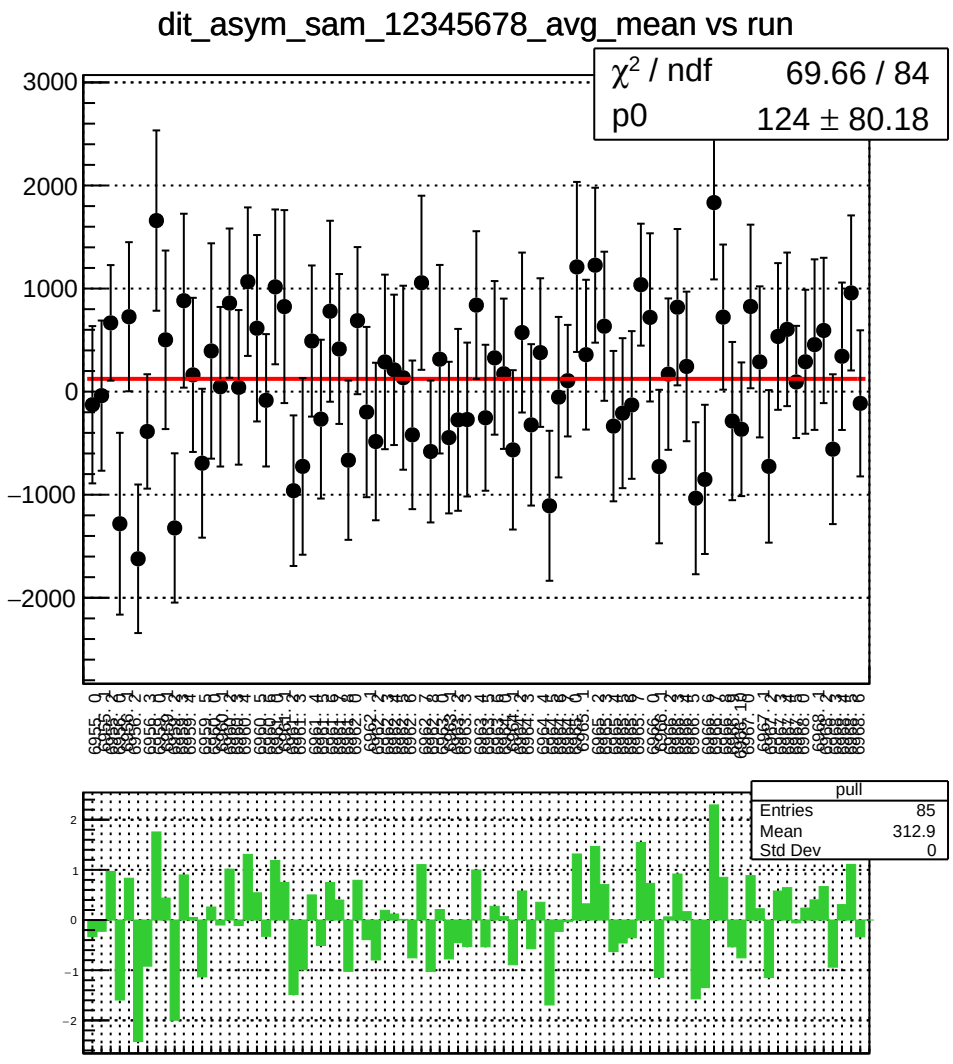

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 56.94 / 84
p0 87.11 ± 68.41
pull
Entries 85
Mean 8999
Std Dev 0

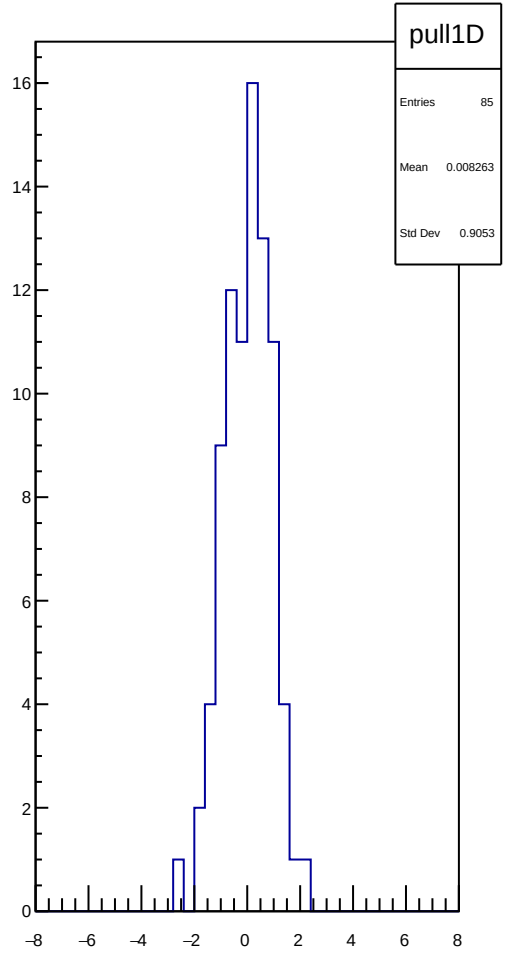

pull1D
Entries 85
Mean −0.000127
Std Dev 0.8185

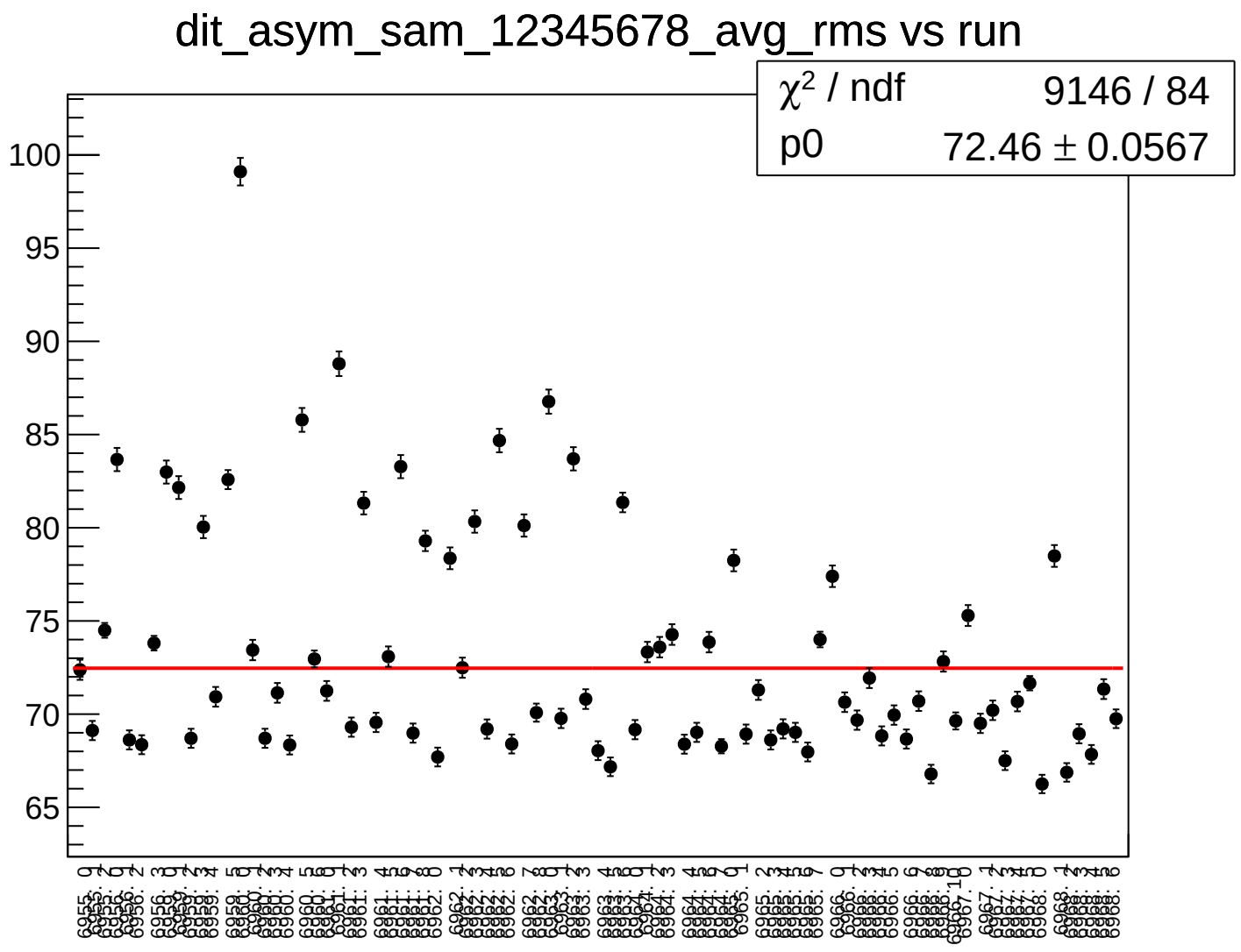

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4358 / 84
p0 61.92 ± 0.04838
78
76
74
72
70
68
66
64
62
60
58
56

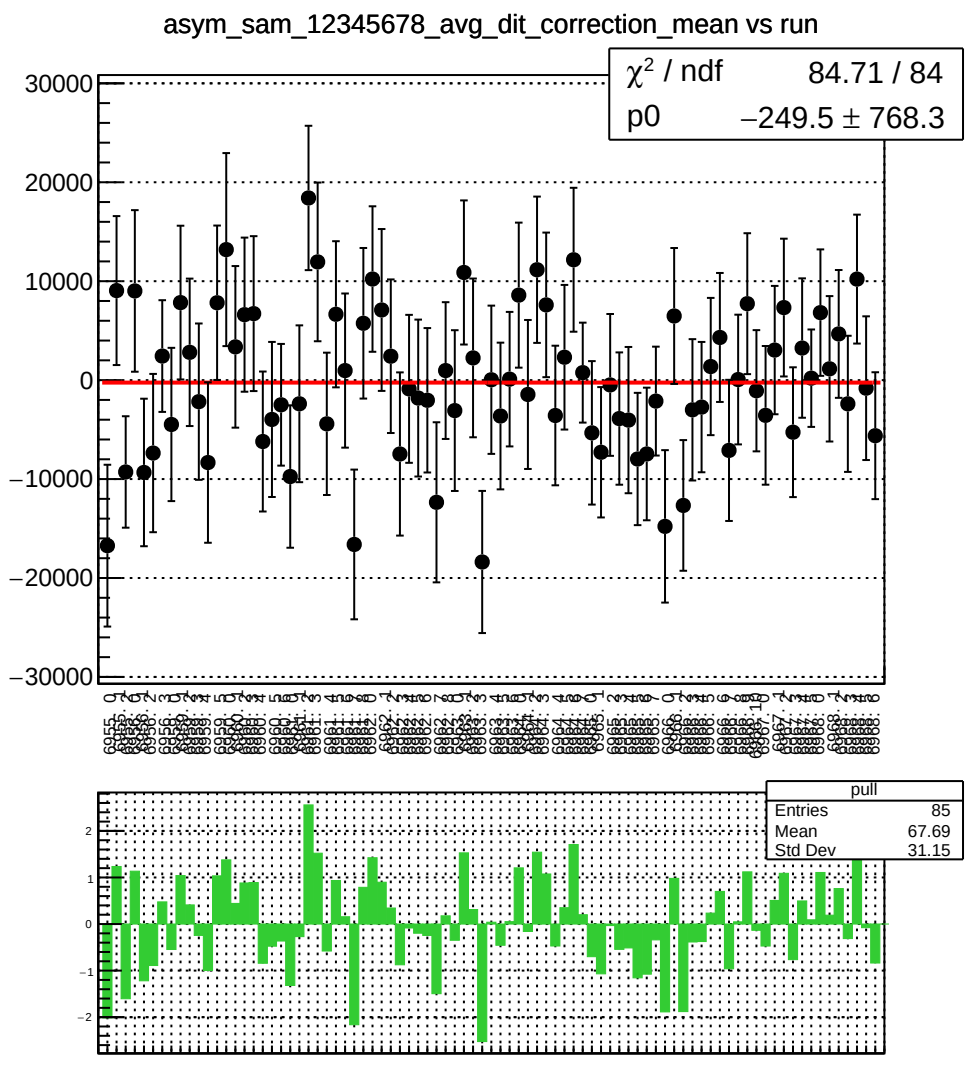

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.36 / 84
p0 −312.2 ± 783.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 35.51
Std Dev 35.63
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.009495
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

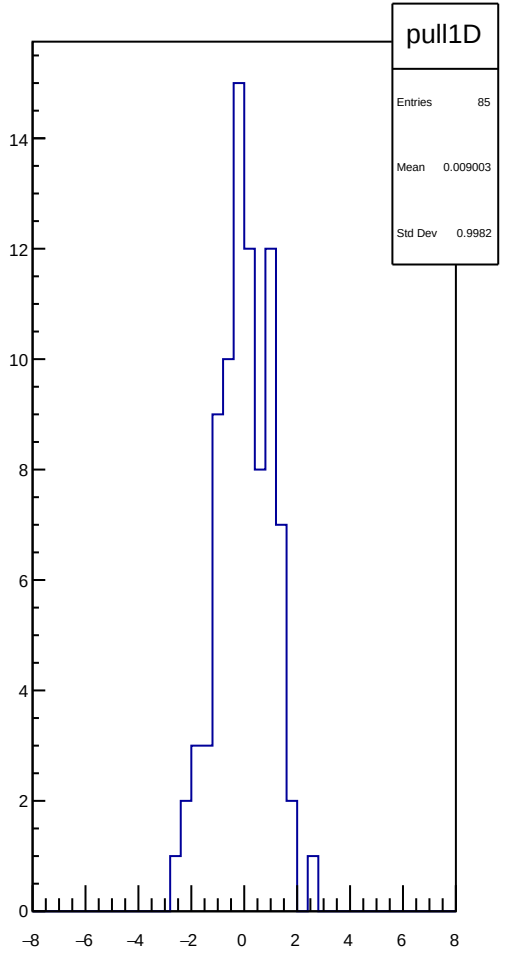

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.332e+04 / 84
p0 706.8 ± 0.5537
1000
950
900
850
800
750
700
650
600

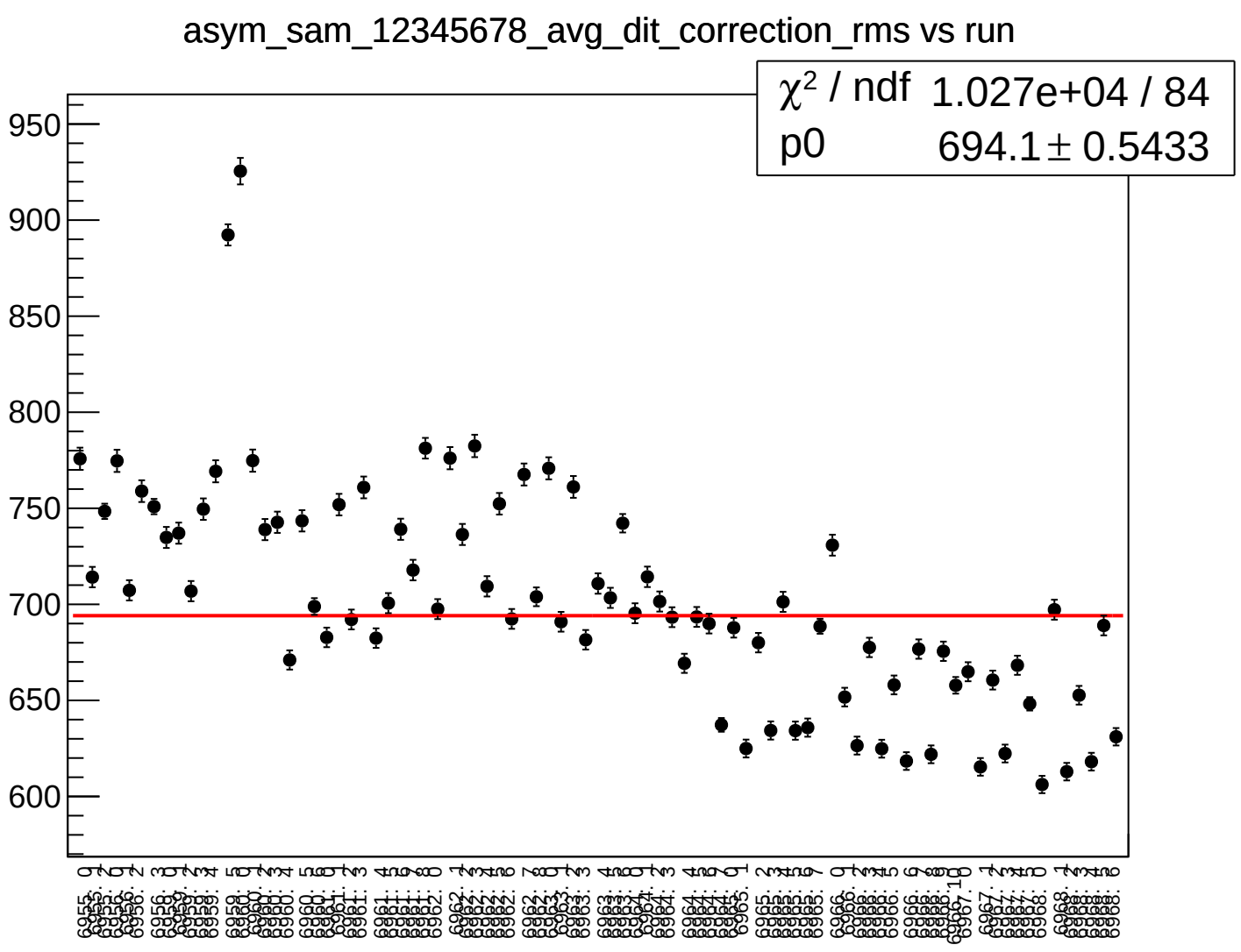

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 69.66 / 84
p0 124 ± 80.18
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 312.9
Std Dev 0
2
1
0
−1
−2

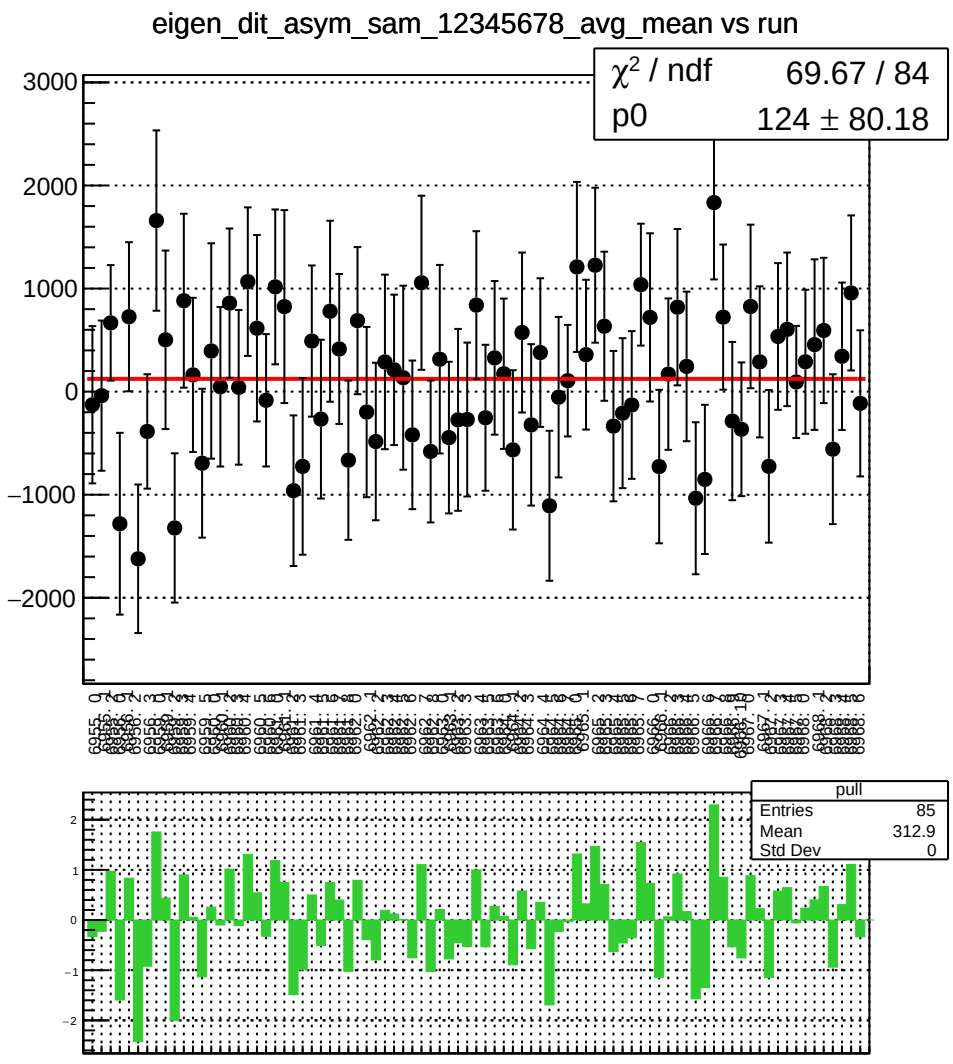

pull1D
Entries 85
Mean 0.008263
Std Dev 0.9053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

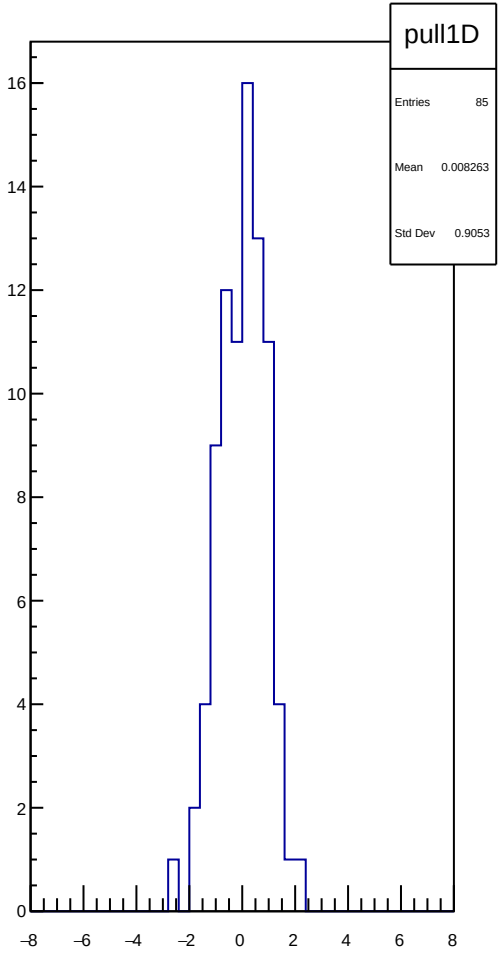

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 9146 / 84
p0 72.46 ± 0.0567
100
95
90
85
80
75
70
65

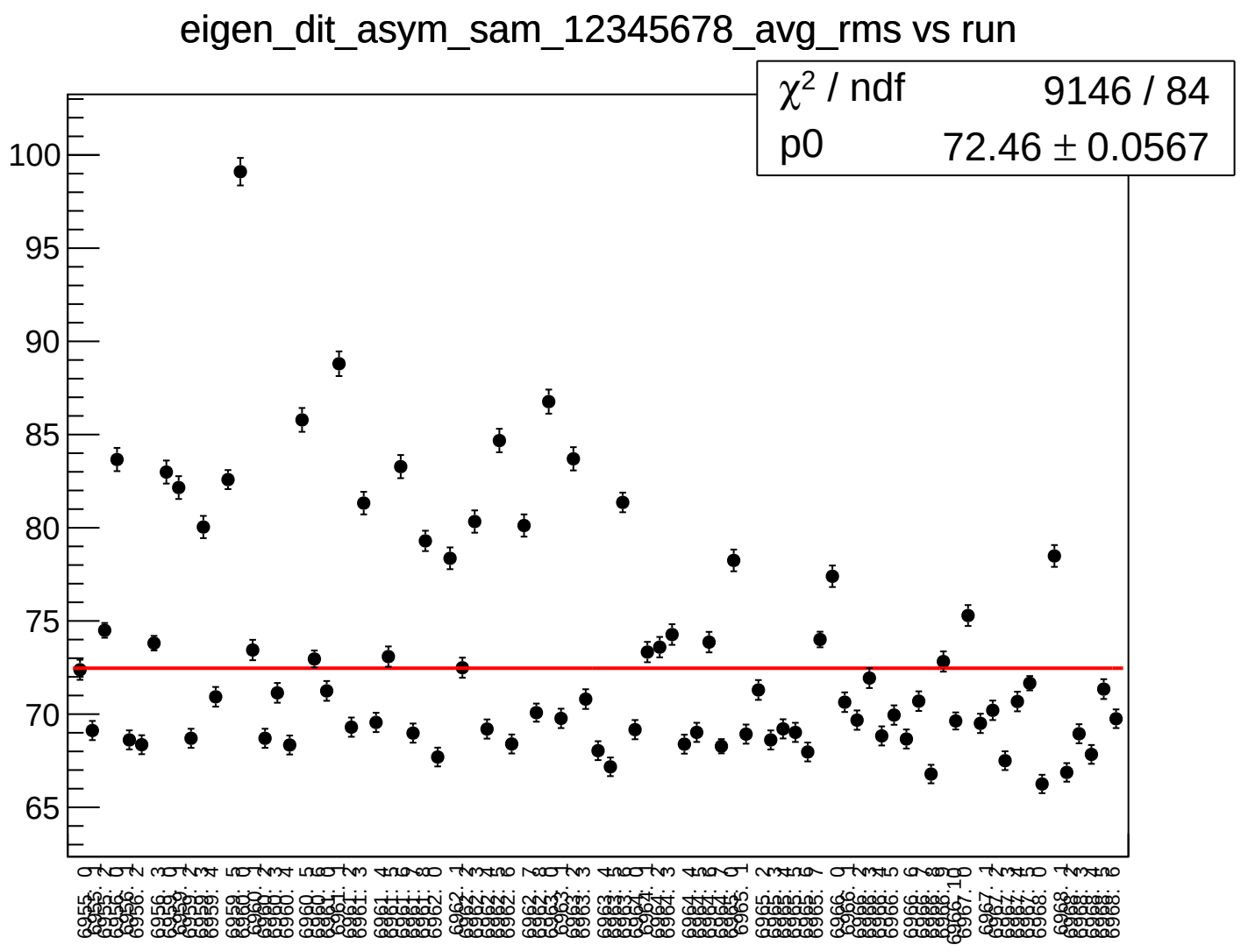

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 84.71 / 84
p0 −249.5 ± 768.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 67.69
Std Dev 31.15
2
1
0
−1
−2

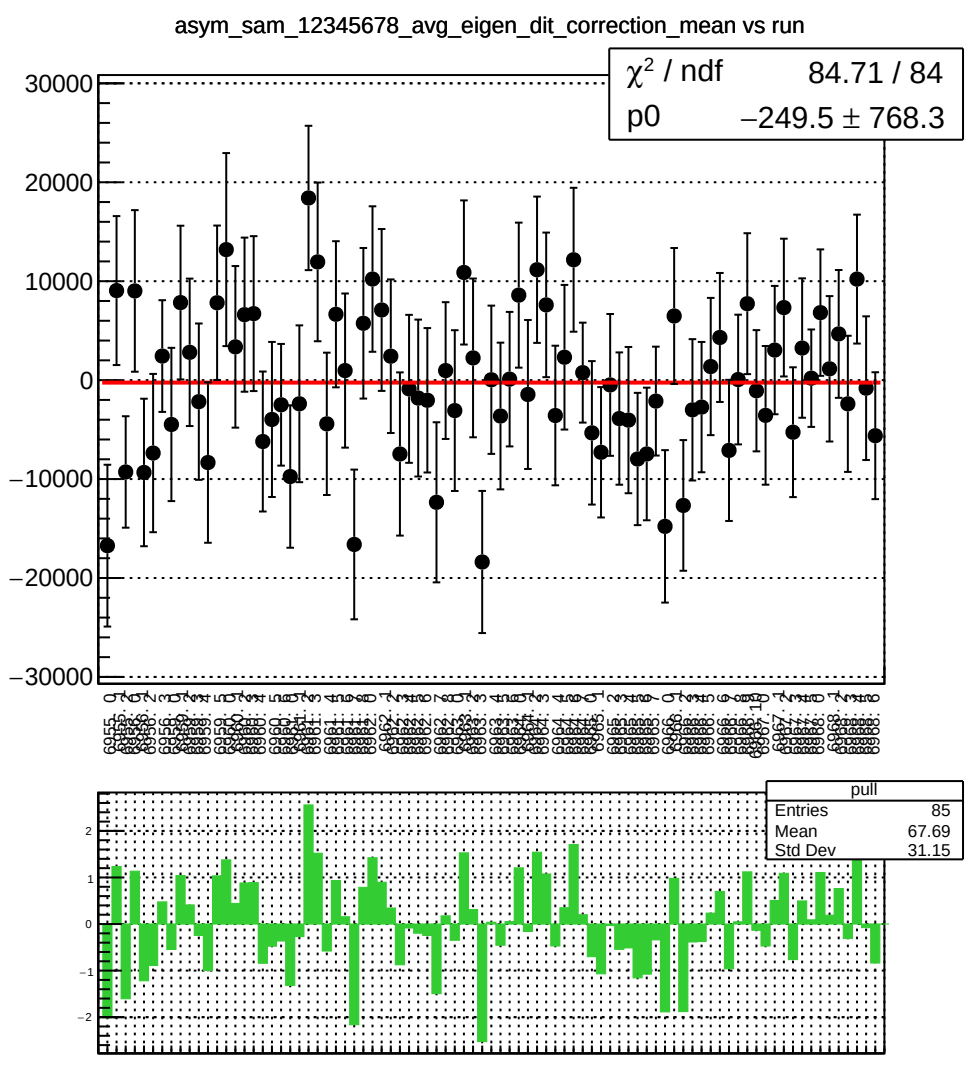

pull1D
Entries 85
Mean 0.009003
Std Dev 0.9982
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

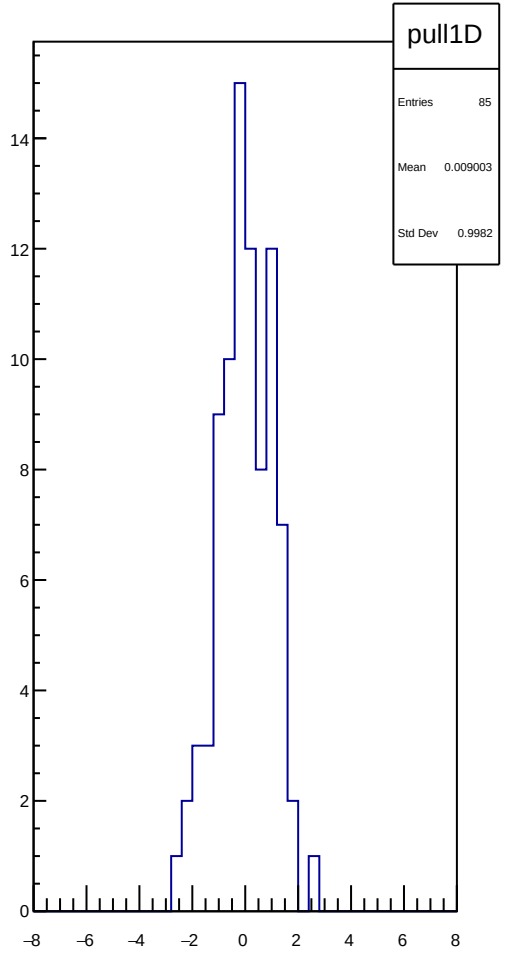

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.027e+04 / 84
p0 694.1 ± 0.5433
950
900
850
800
750
700
650
600

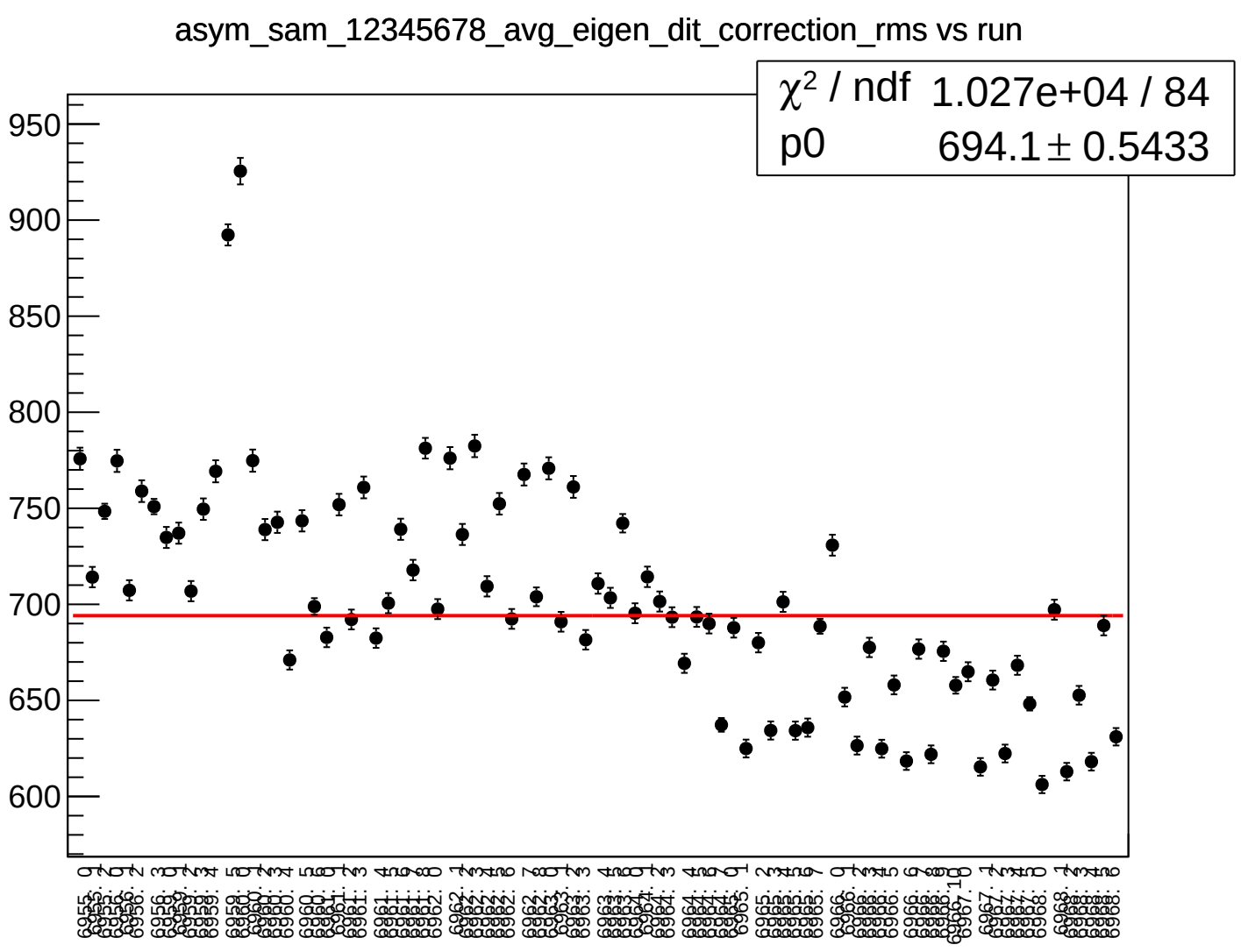

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 69.67 / 84
p0 124 ± 80.18
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 312.9
Std Dev 0
2
1
0
−1
−2

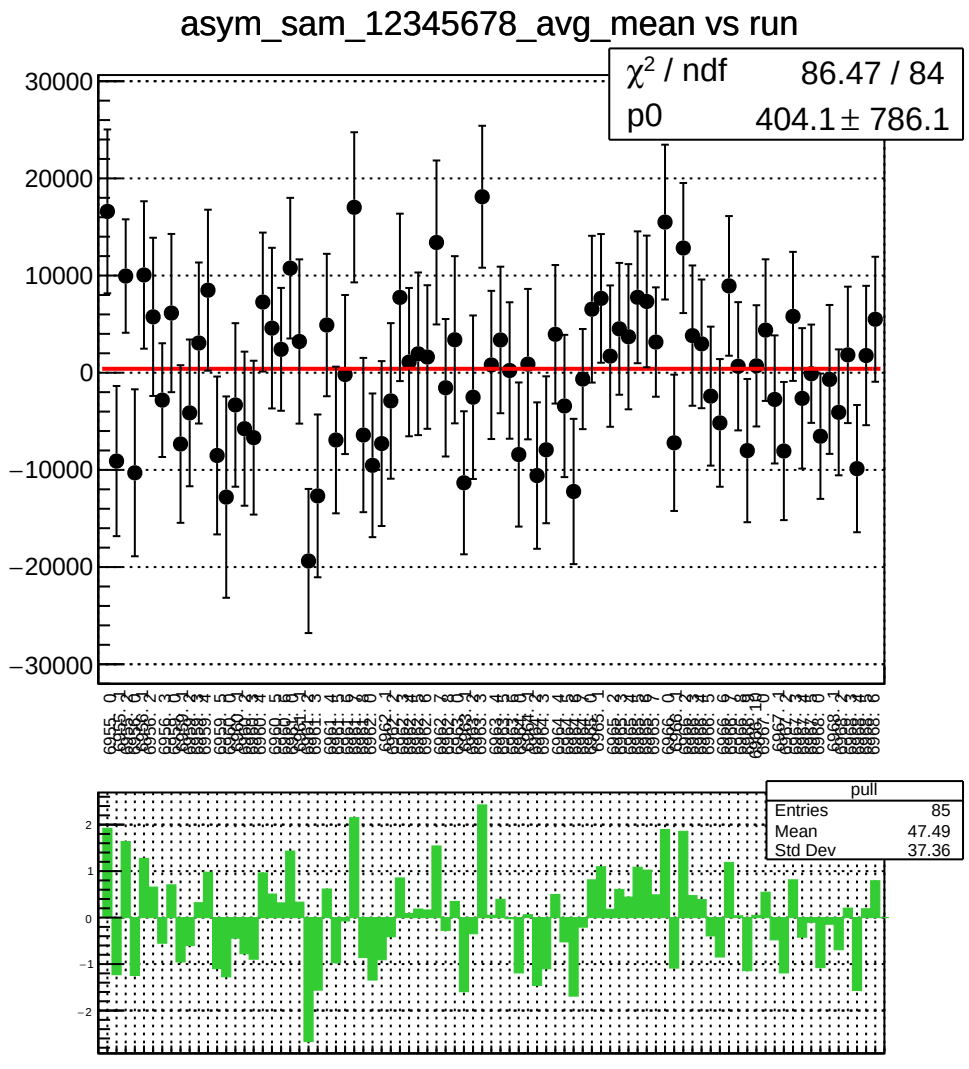

pull1D
Entries 85
Mean 0.008263
Std Dev 0.9053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

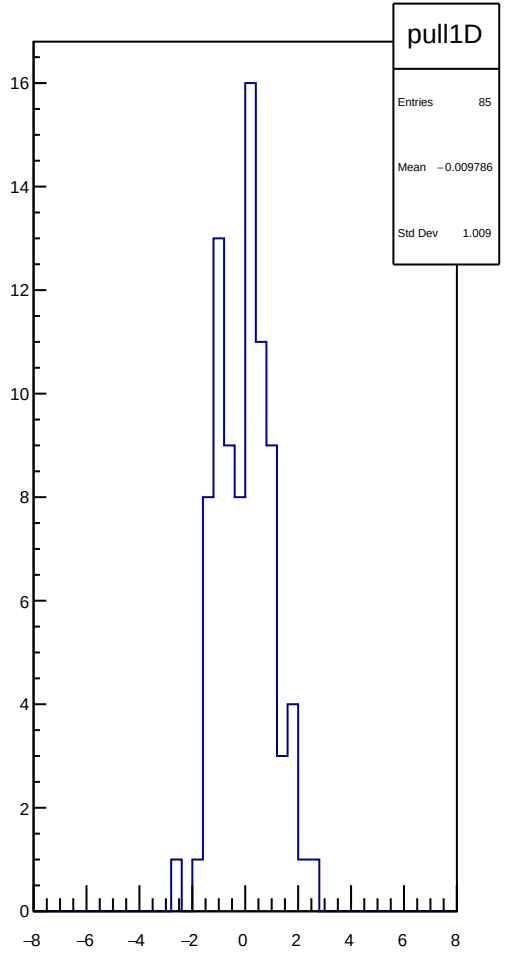

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 9146 / 84
p0 72.46 ± 0.0567
100
95
90
85
80
75
70
65

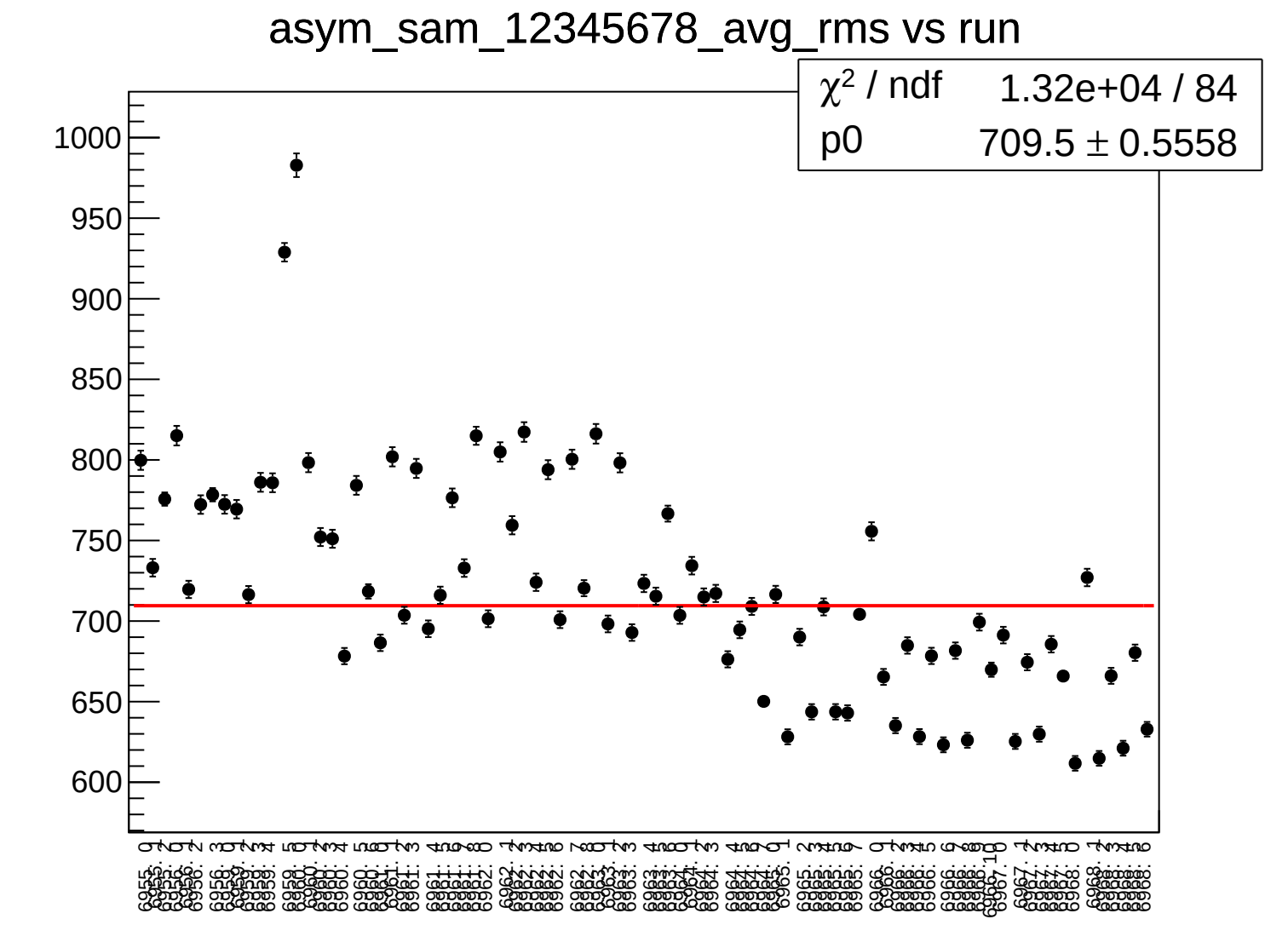

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.71 / 84
p0 −249.5 ± 768.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 67.69
Std Dev 31.15
2
1
0
−1
−2

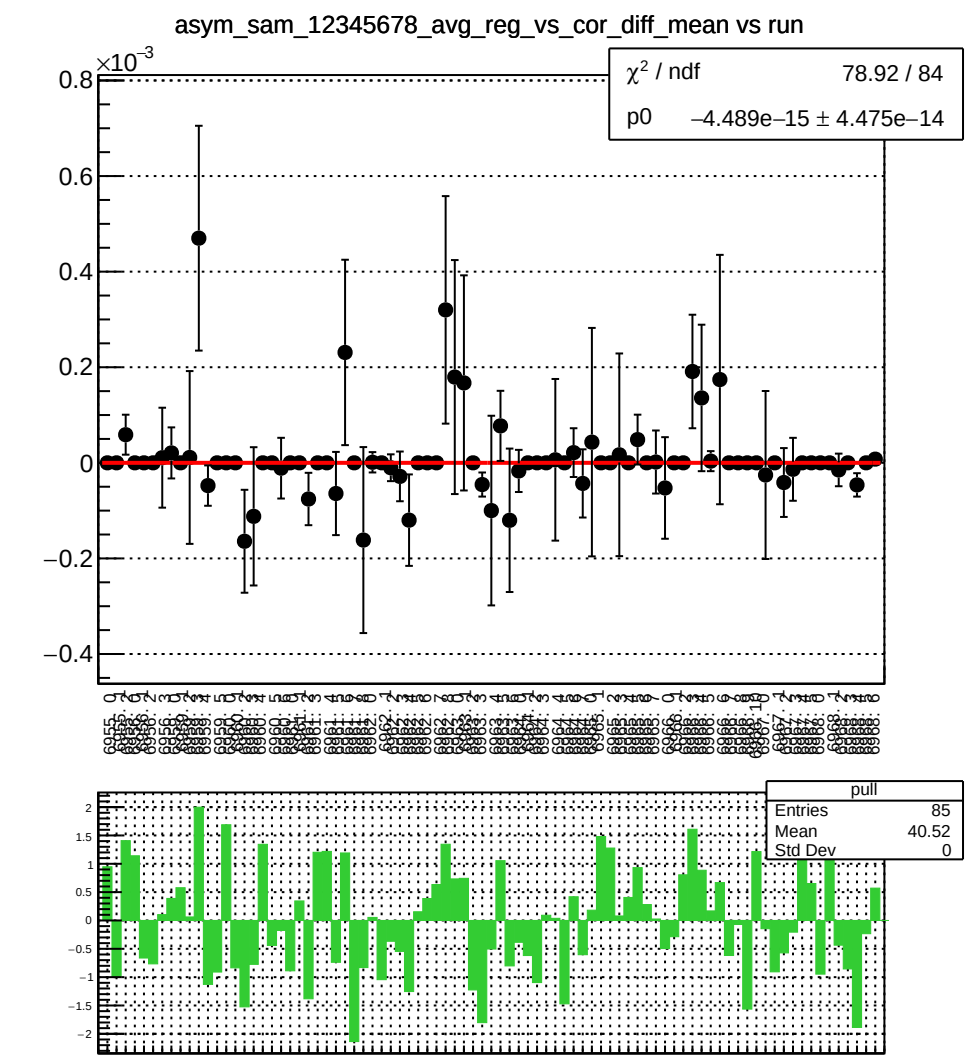

pull1D
Entries 85
Mean 0.009003
Std Dev 0.9982
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

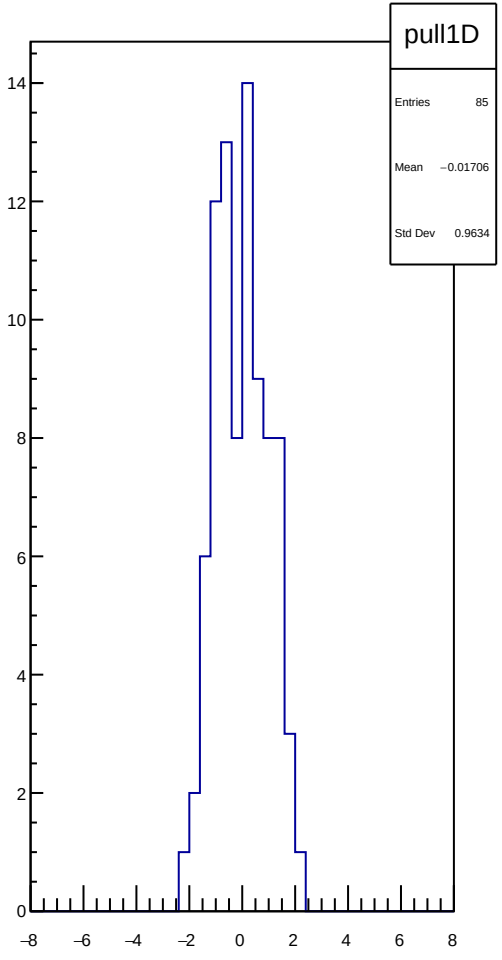

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.027e+04 / 84
p0 694.1 ± 0.5433
950
900
850
800
750
700
650
600

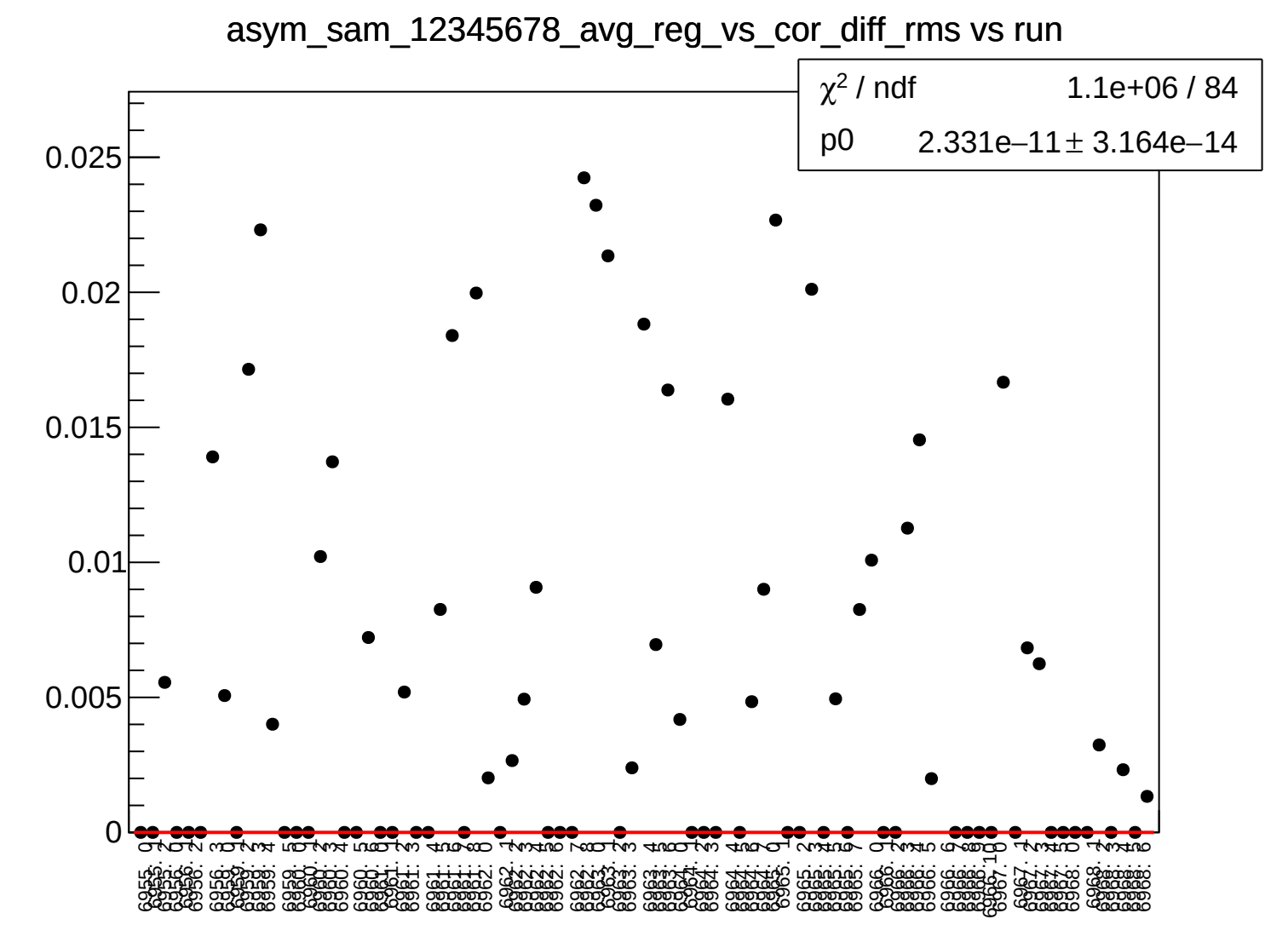

asym_sam_12345678_avg_mean vs run
χ² / ndf 86.47 / 84
p0 404.1 ± 786.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 47.49
Std Dev 37.36
2
1
0
−1
−2

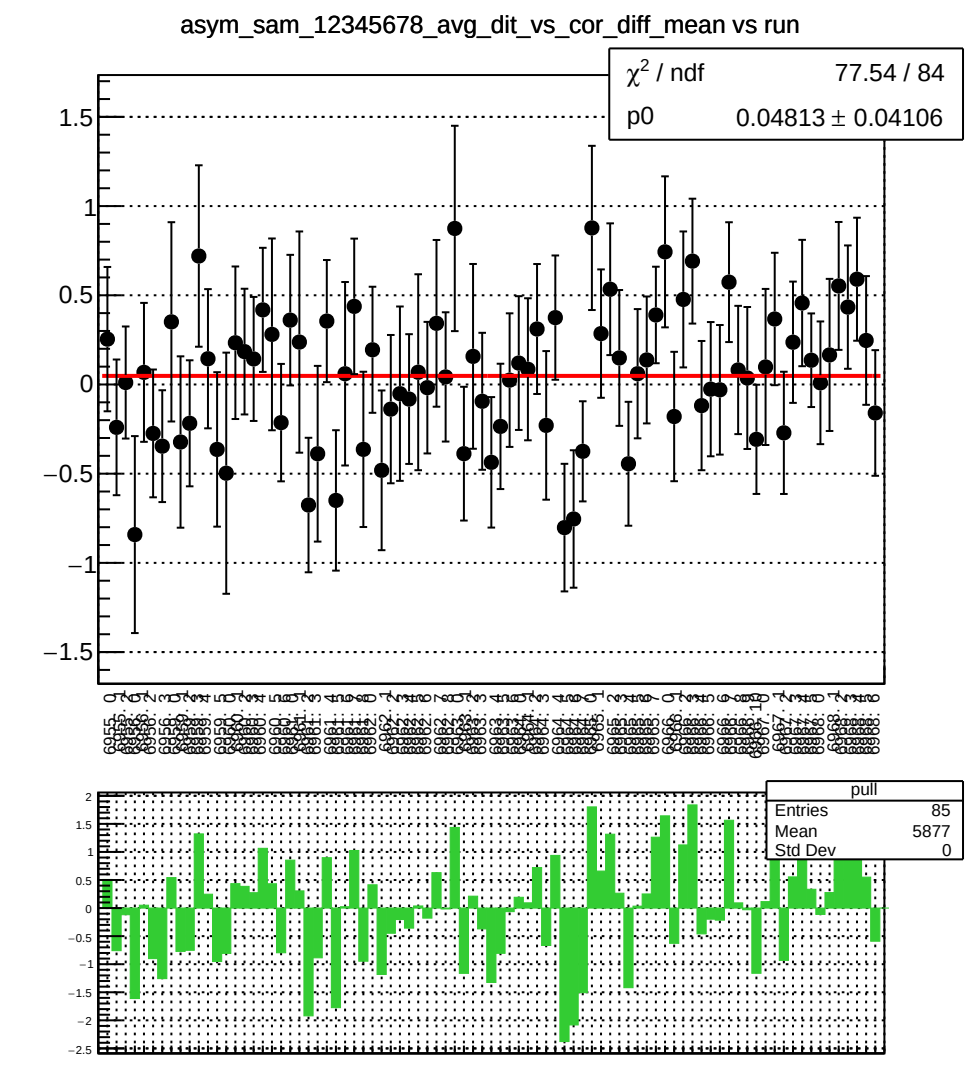

pull1D
Entries 85
Mean −0.009786
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

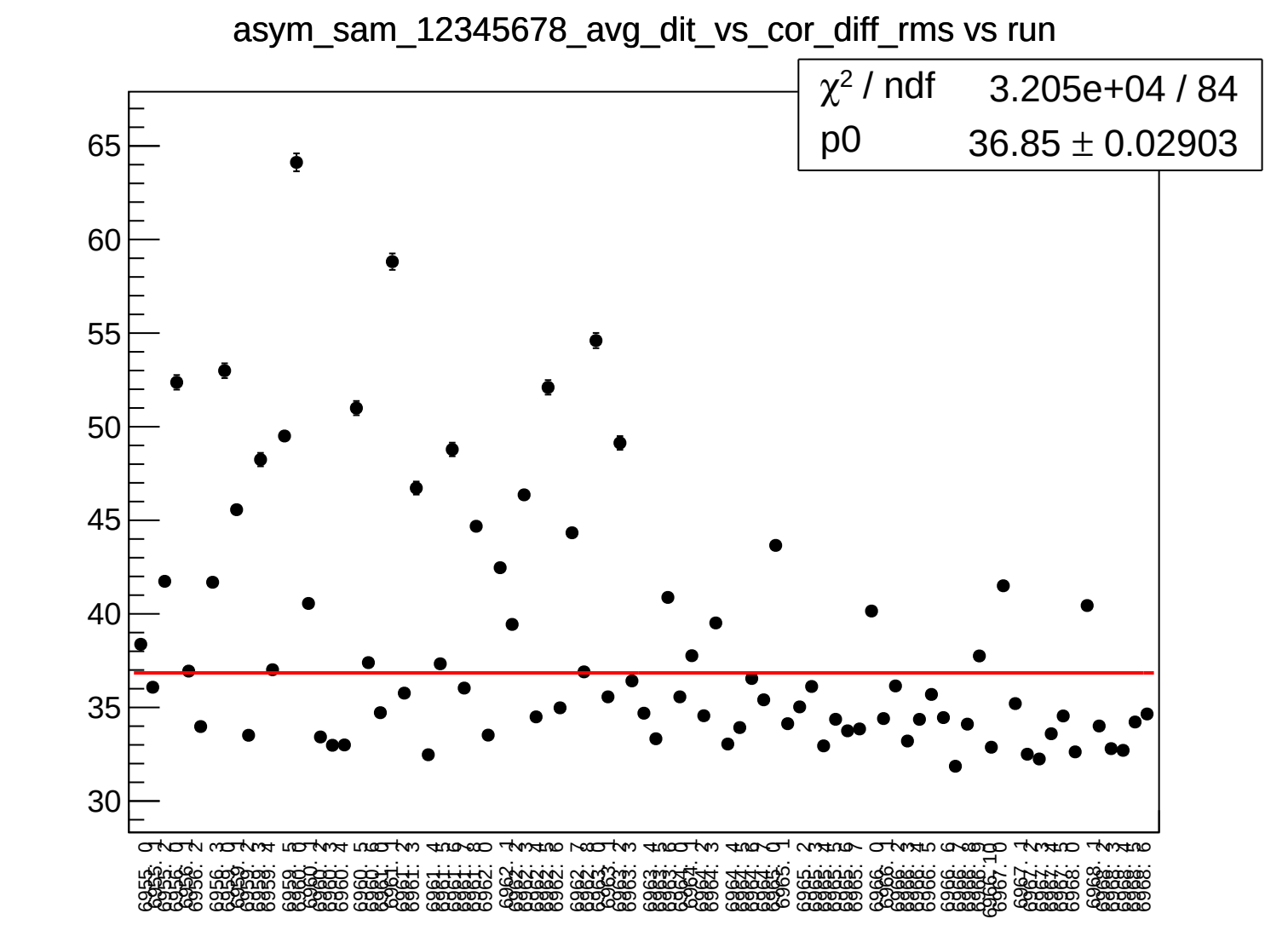

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.32e+04 / 84
p0 709.5 ± 0.5558
1000
950
900
850
800
750
700
650
600

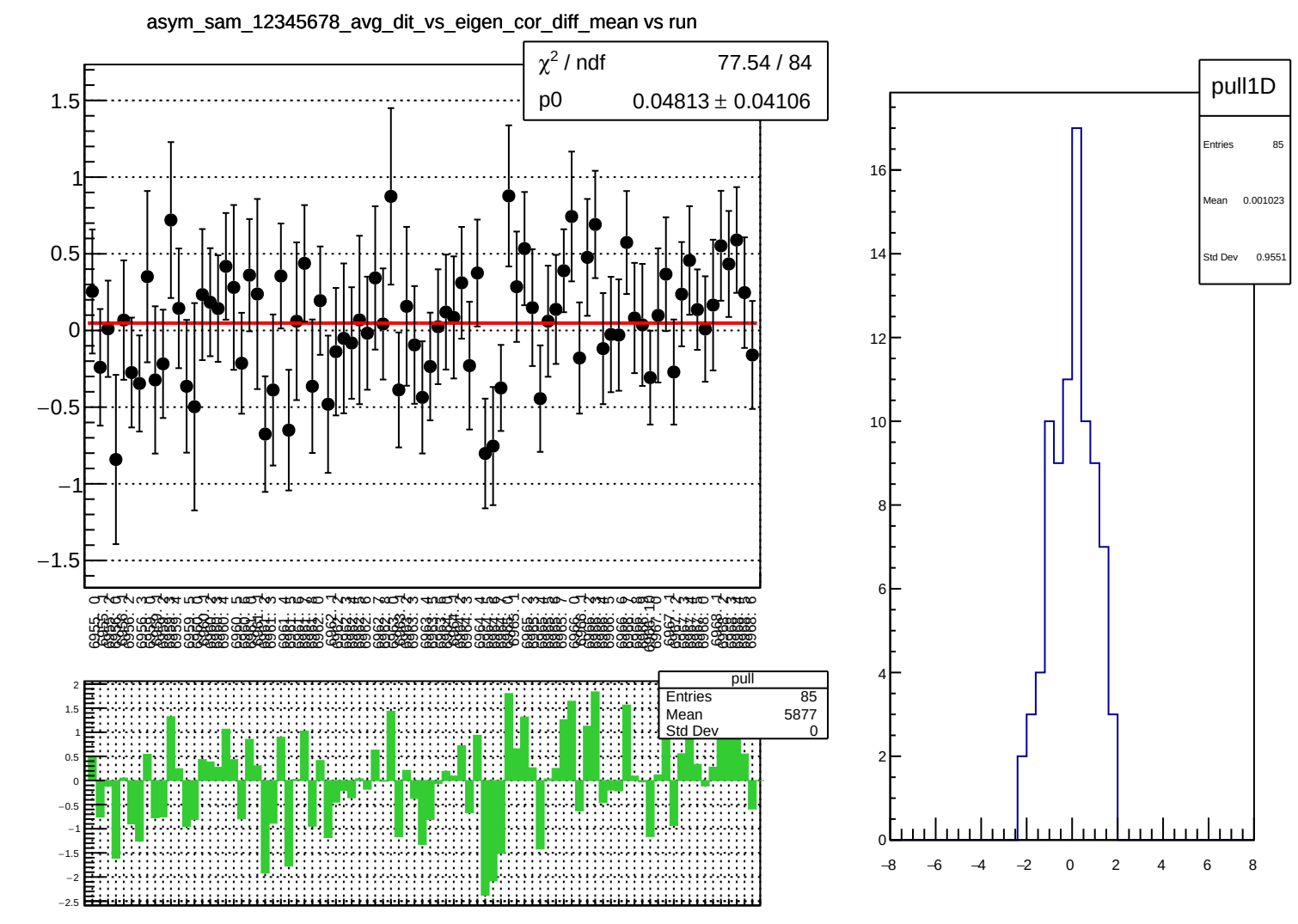

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 78.92 / 84
p0 −4.489e−15 ± 4.475e−14
pull
Entries 85
Mean 40.52
Std Dev 0

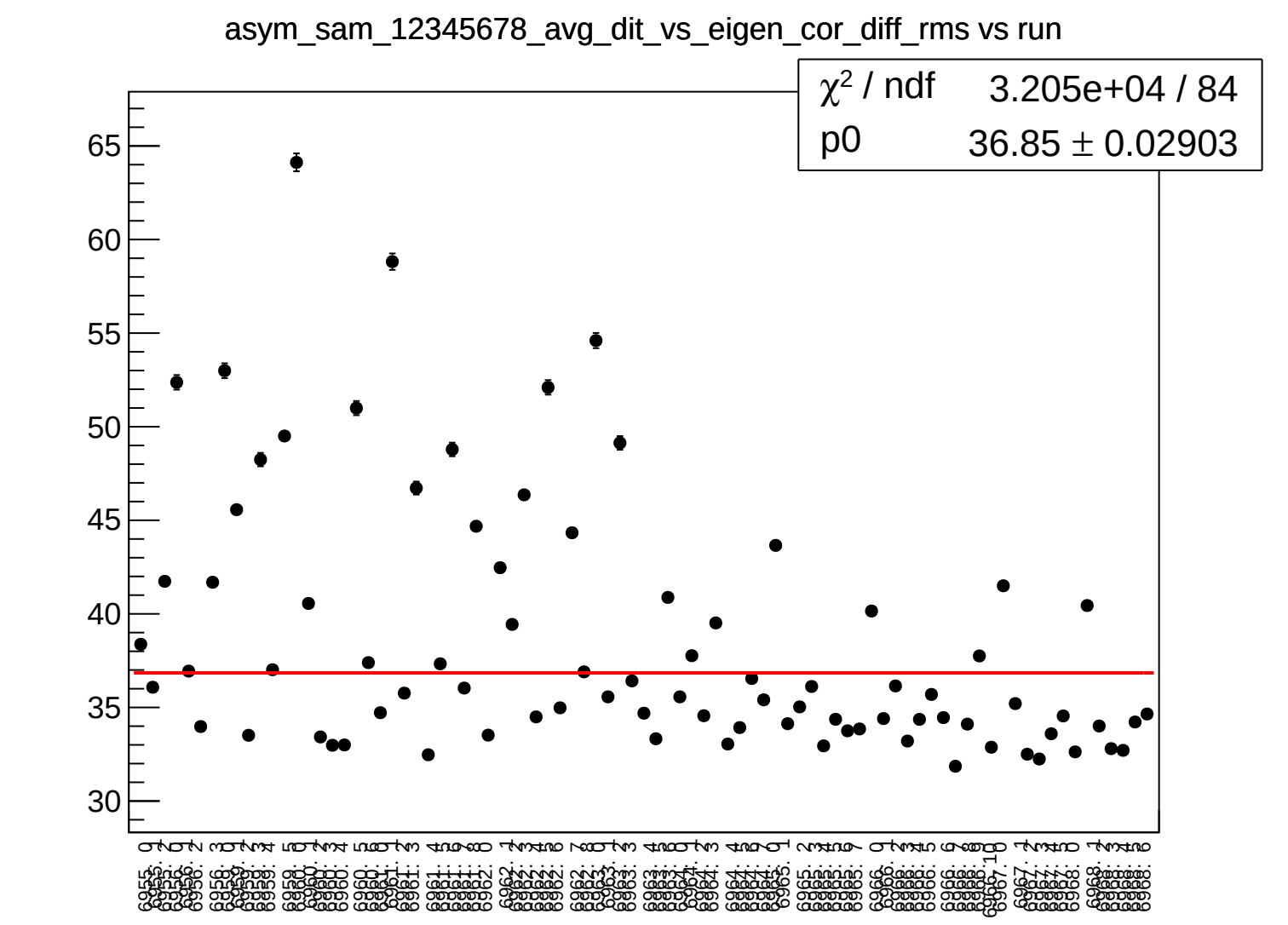

pull1D
Entries 85
Mean −0.01706
Std Dev 0.9634

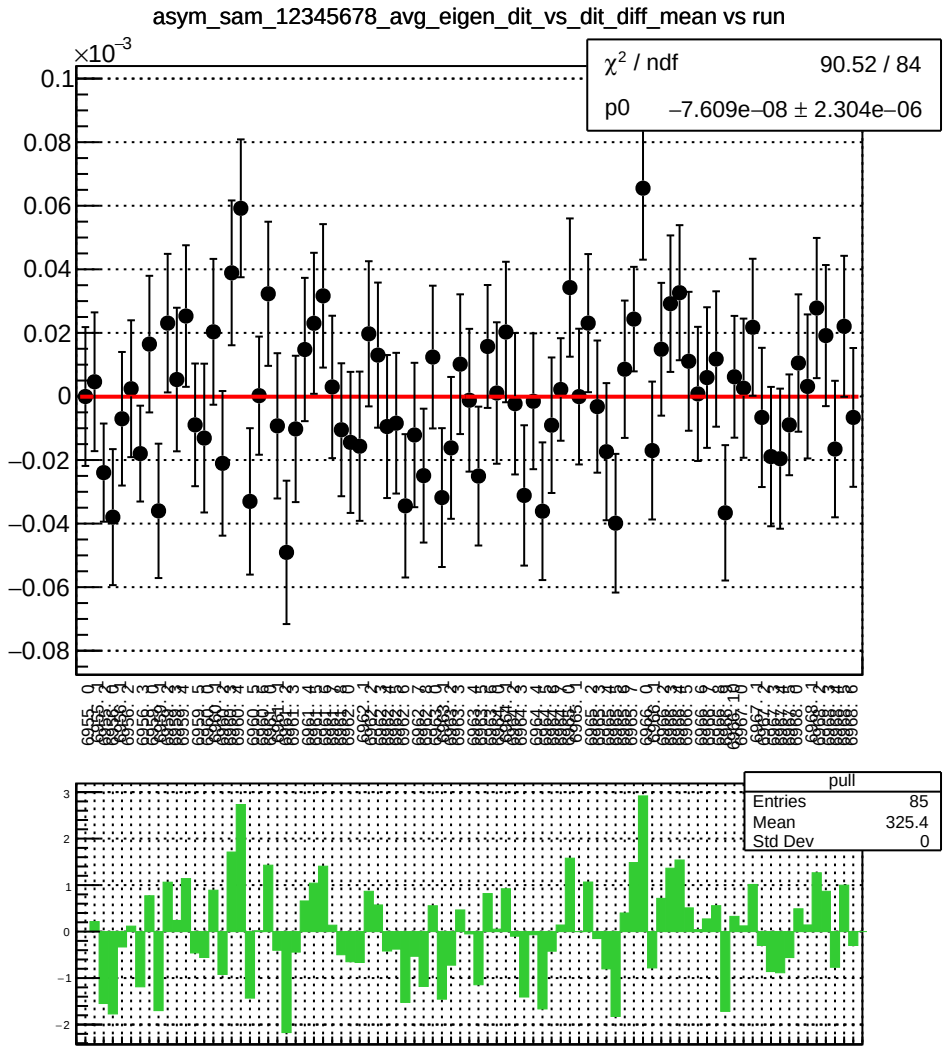

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.1e+06 / 84
p0 2.331e−11 ± 3.164e−14
0.025
0.02
0.015
0.01
0.005
0

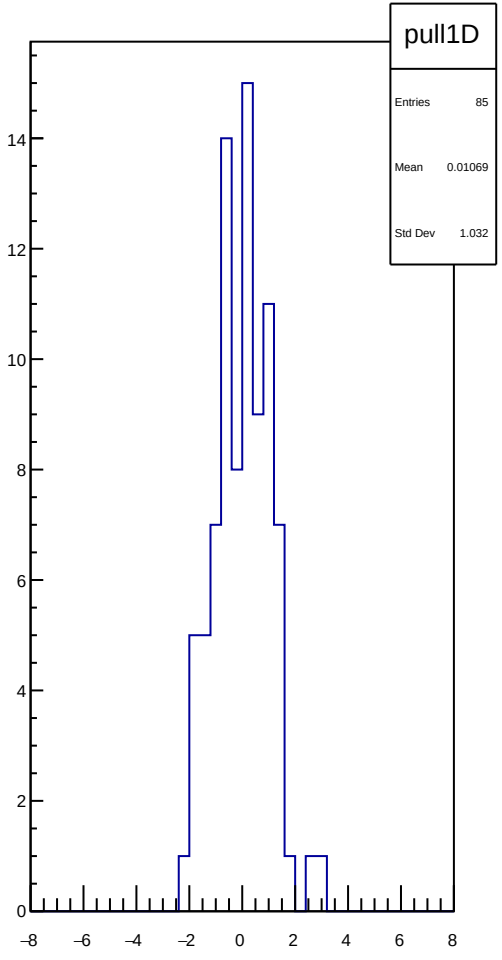

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.54 / 84
p0 0.04813 ± 0.04106
pull
Entries 85
Mean 5877
Std Dev 0
pull1D
Entries 85
Mean 0.001023
Std Dev 0.9551

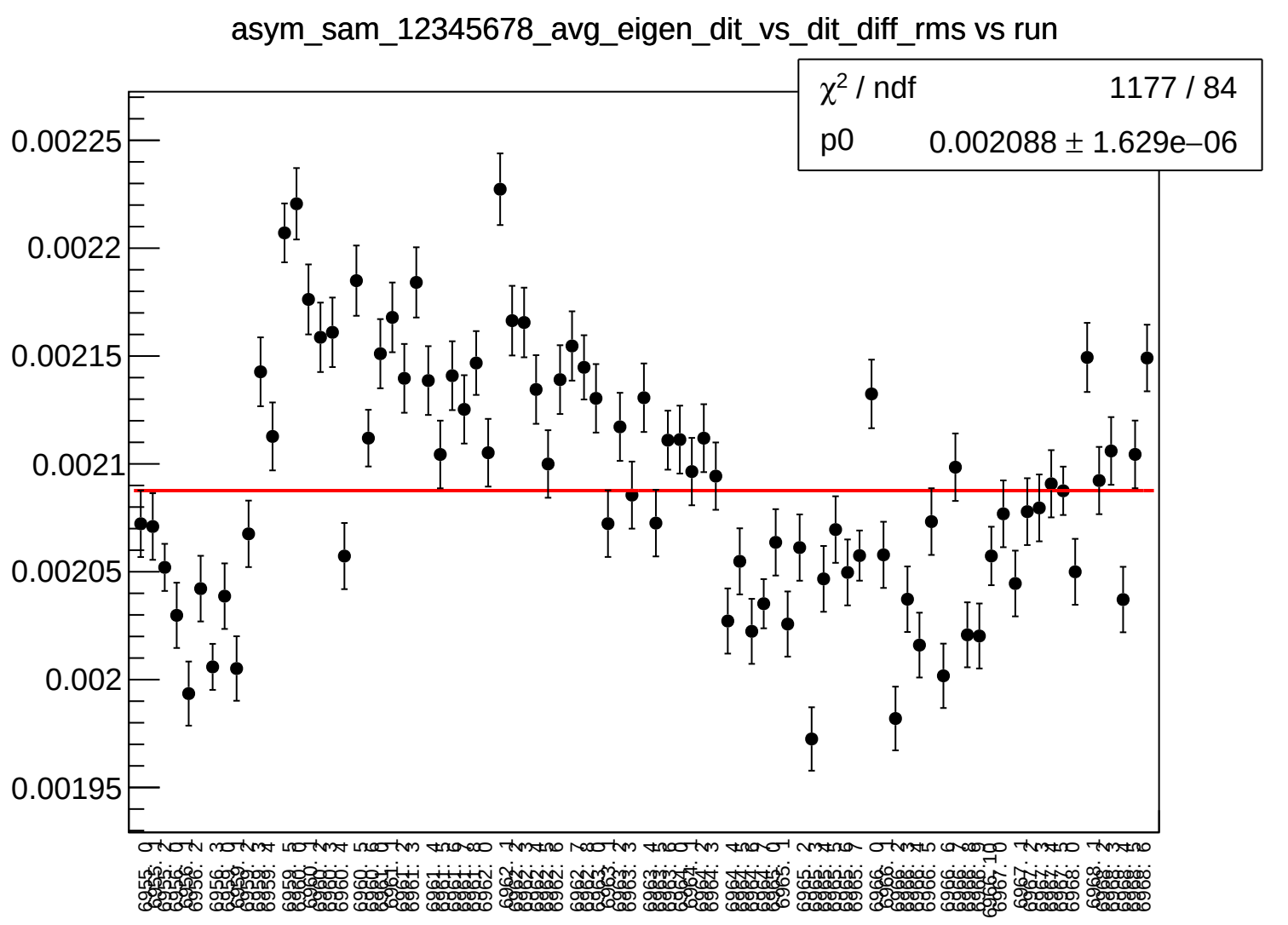

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 3.205e+04 / 84
p0 36.85 ± 0.02903
65
60
55
50
45
40
35
30

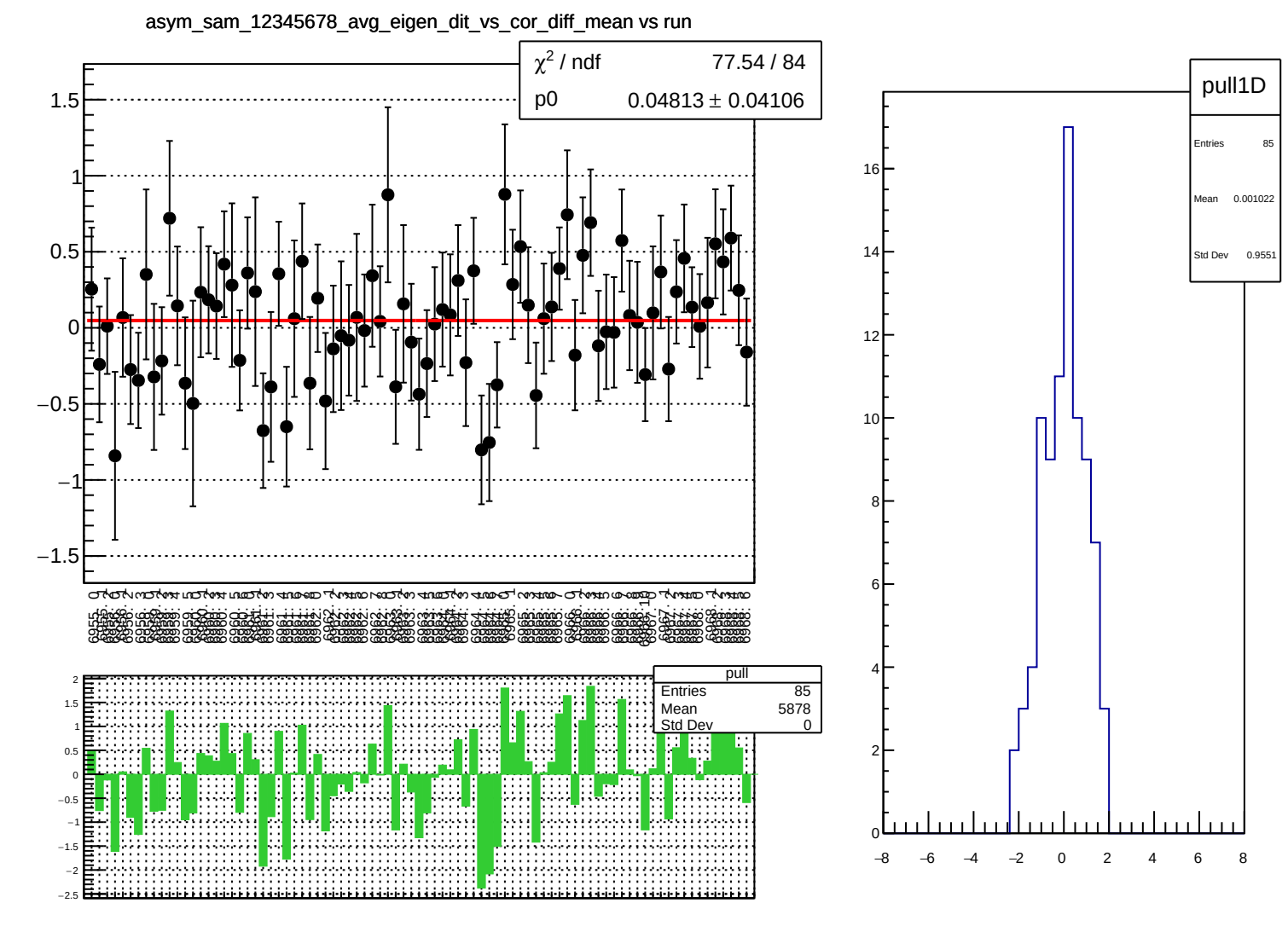

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.54 / 84
p0 0.04813 ± 0.04106
pull
Entries 85
Mean 5877
Std Dev 0
pull1D
Entries 85
Mean 0.001023
Std Dev 0.9551

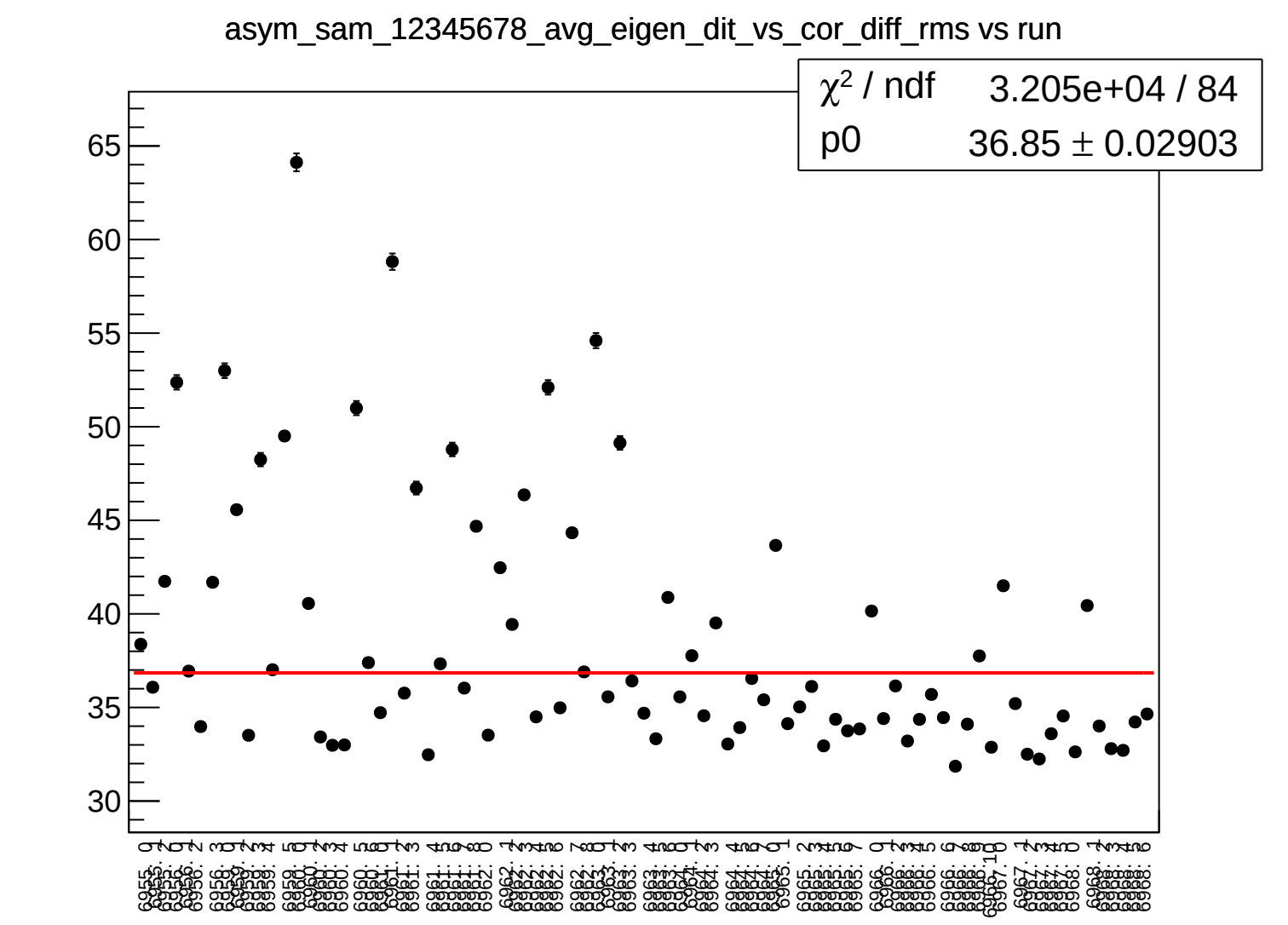

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 84
p0 36.85 ± 0.02903
65
60
55
50
45
40
35
30

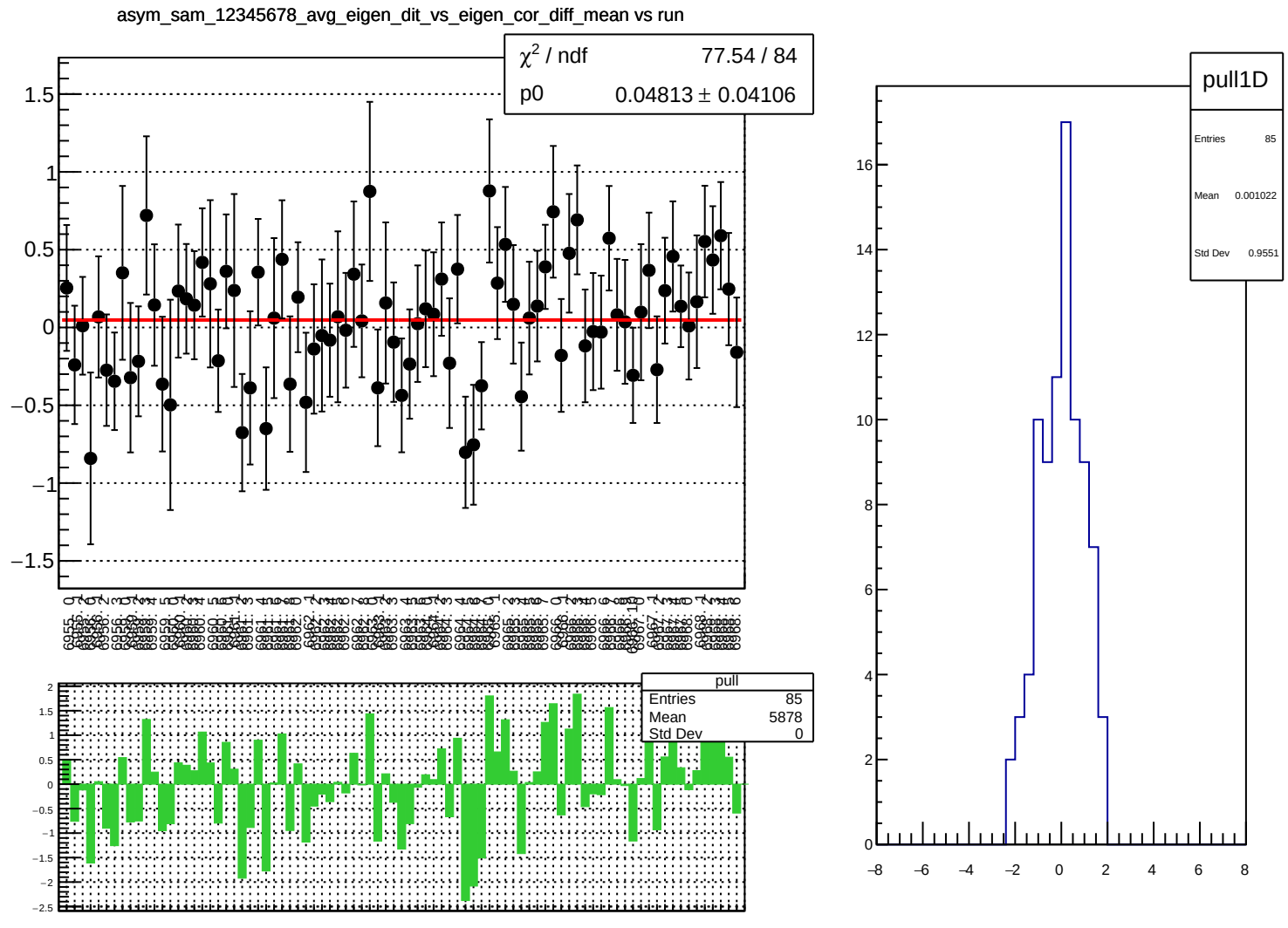

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.52 / 84
p0 −7.609e−08 ± 2.304e−06
pull
Entries 85
Mean 325.4
Std Dev 0

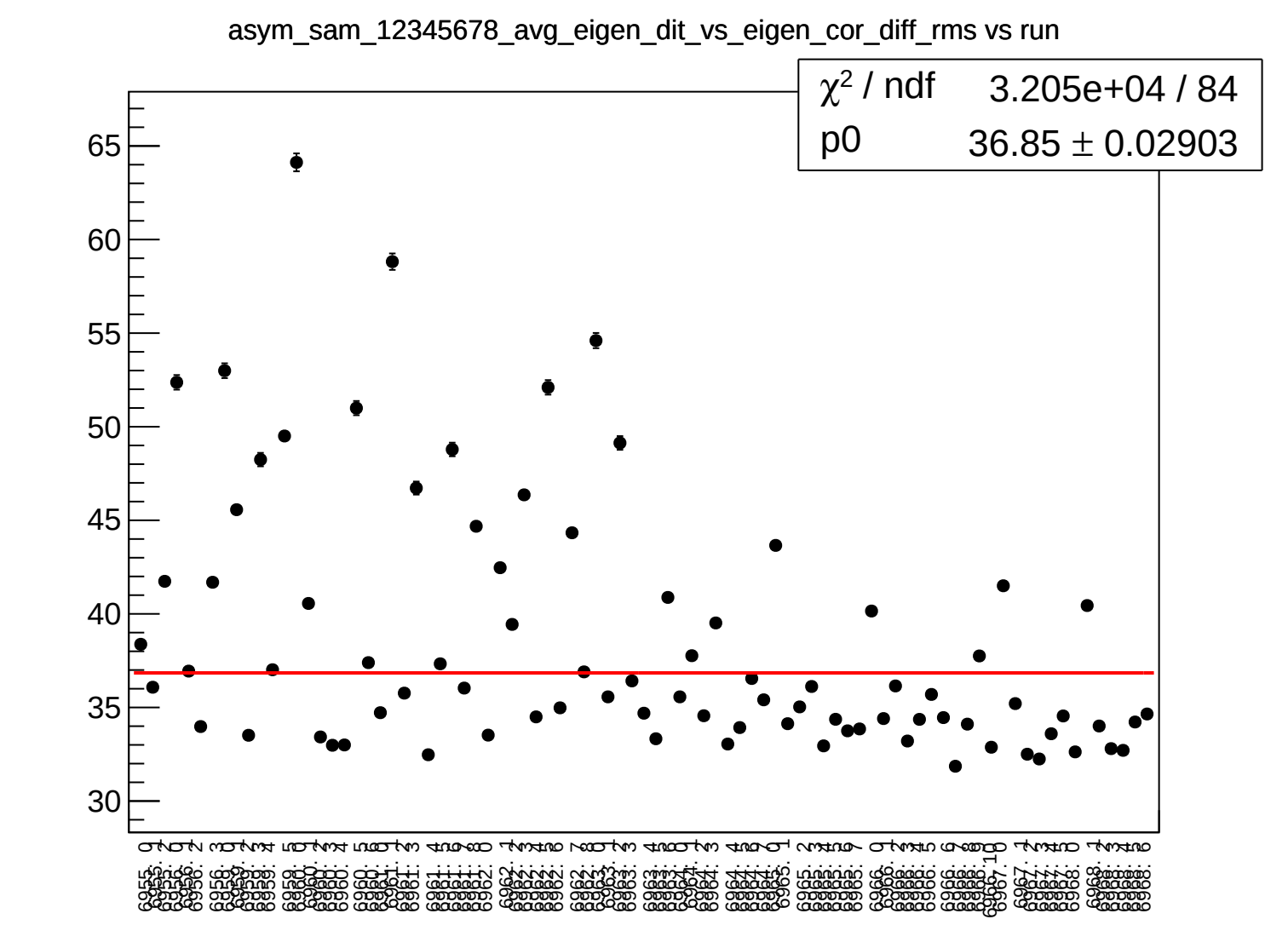

pull1D
Entries 85
Mean 0.01069
Std Dev 1.032

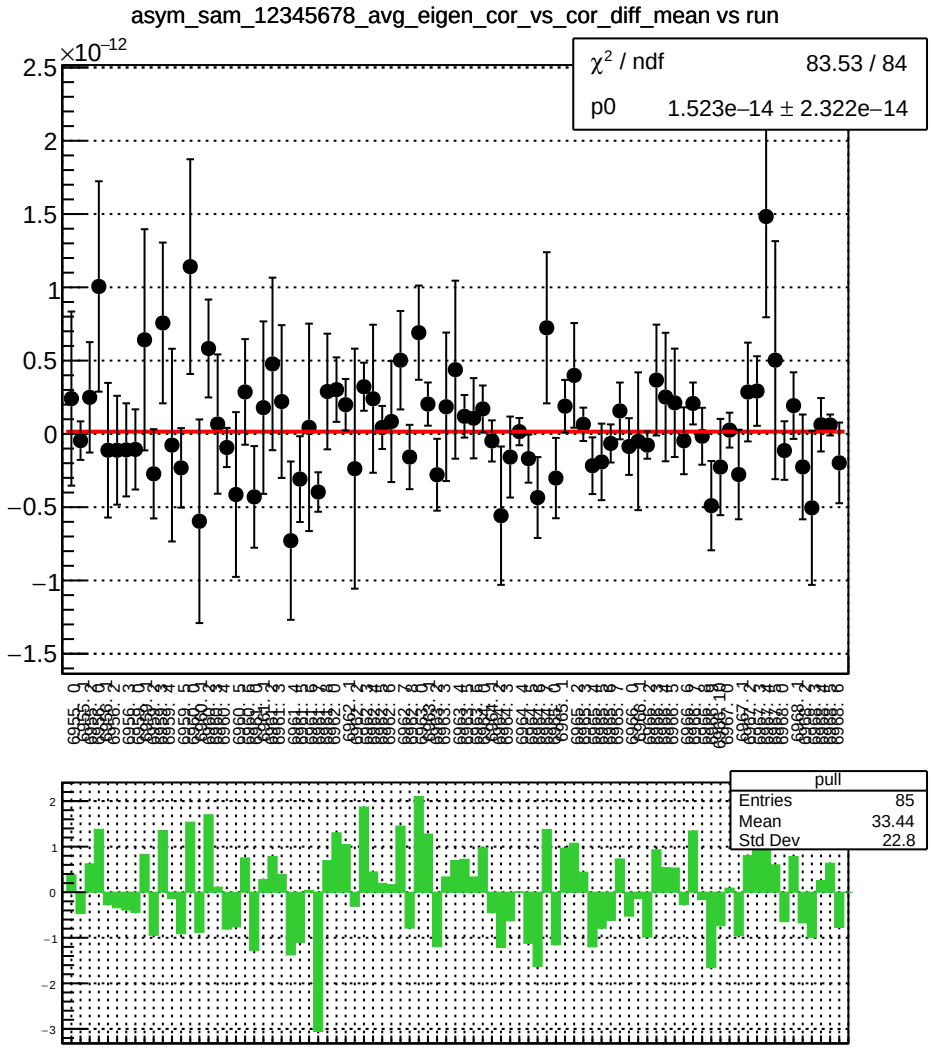

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1177 / 84
p0 0.002088 ± 1.629e−06
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195

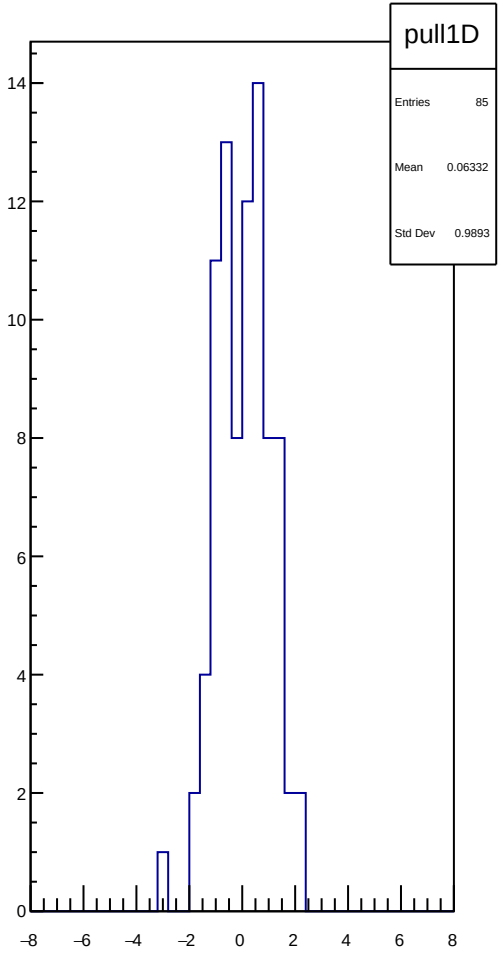

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.54 / 84
p0 0.04813 ± 0.04106
pull
Entries 85
Mean 5878
Std Dev 0
pull1D
Entries 85
Mean 0.001022
Std Dev 0.9551

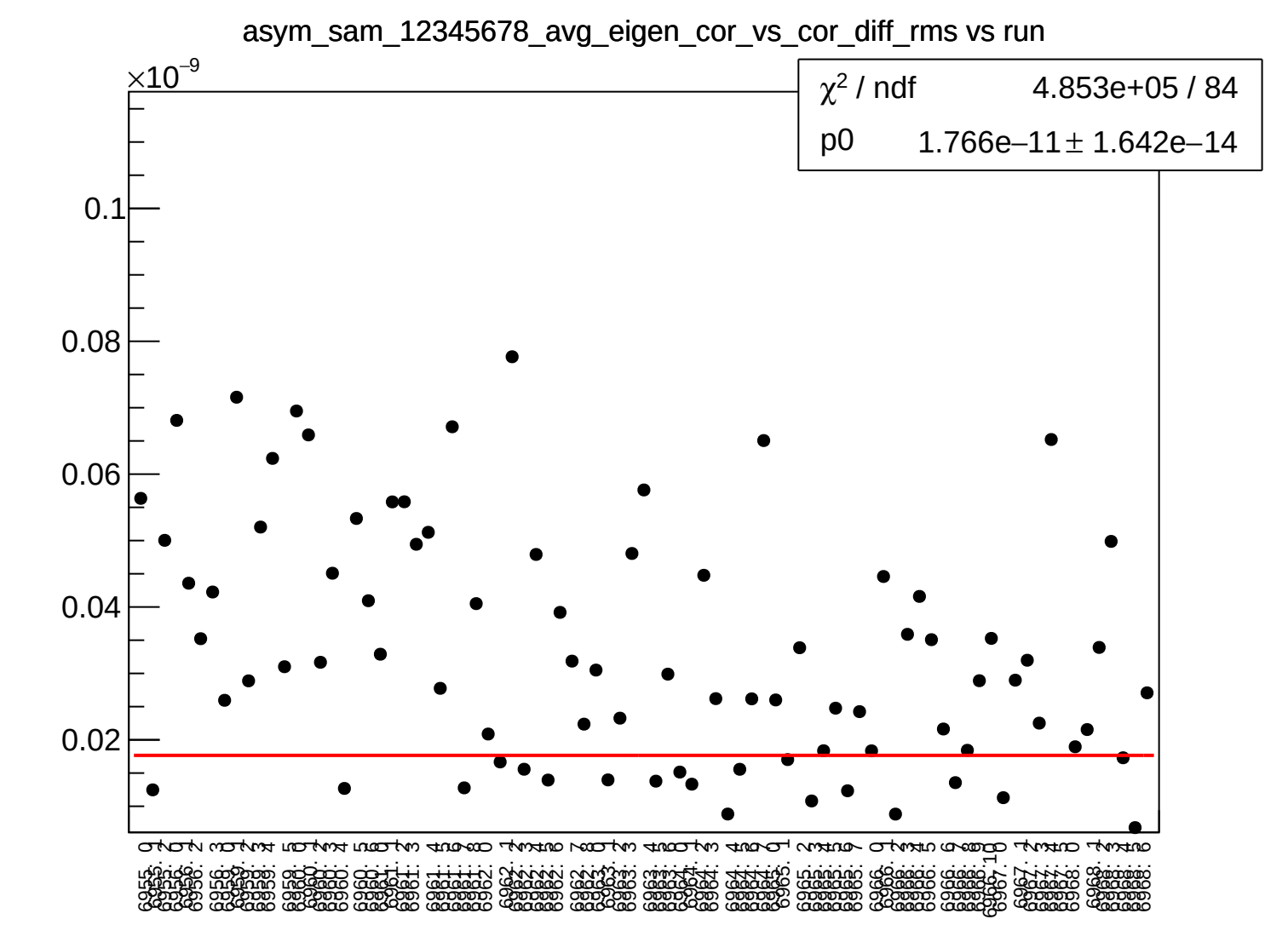

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 84
p0 36.85 ± 0.02903
65
60
55
50
45
40
35
30

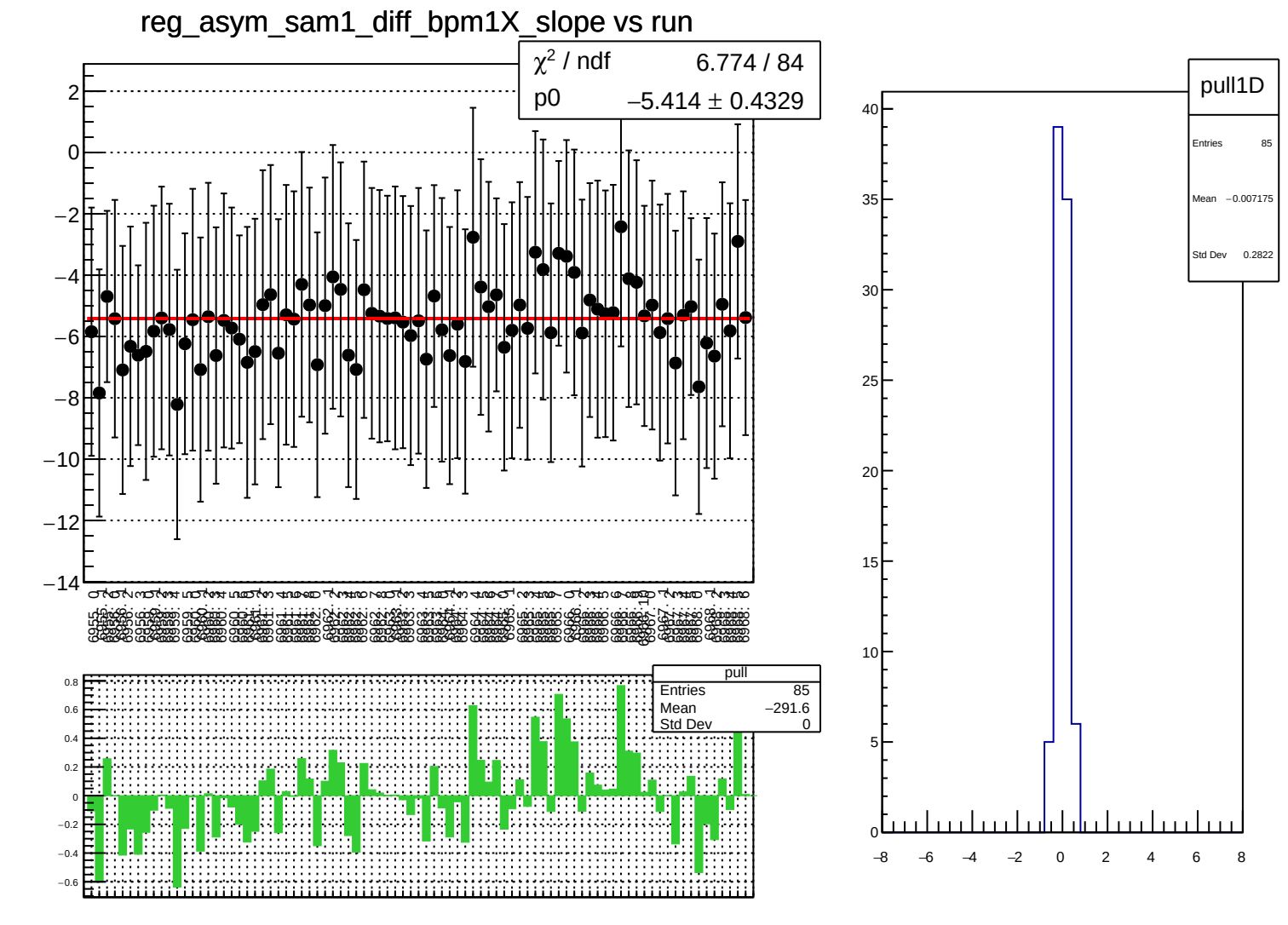

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.54 / 84
p0 0.04813 ± 0.04106
pull
Entries 85
Mean 5878
Std Dev 0
pull1D
Entries 85
Mean 0.001022
Std Dev 0.9551

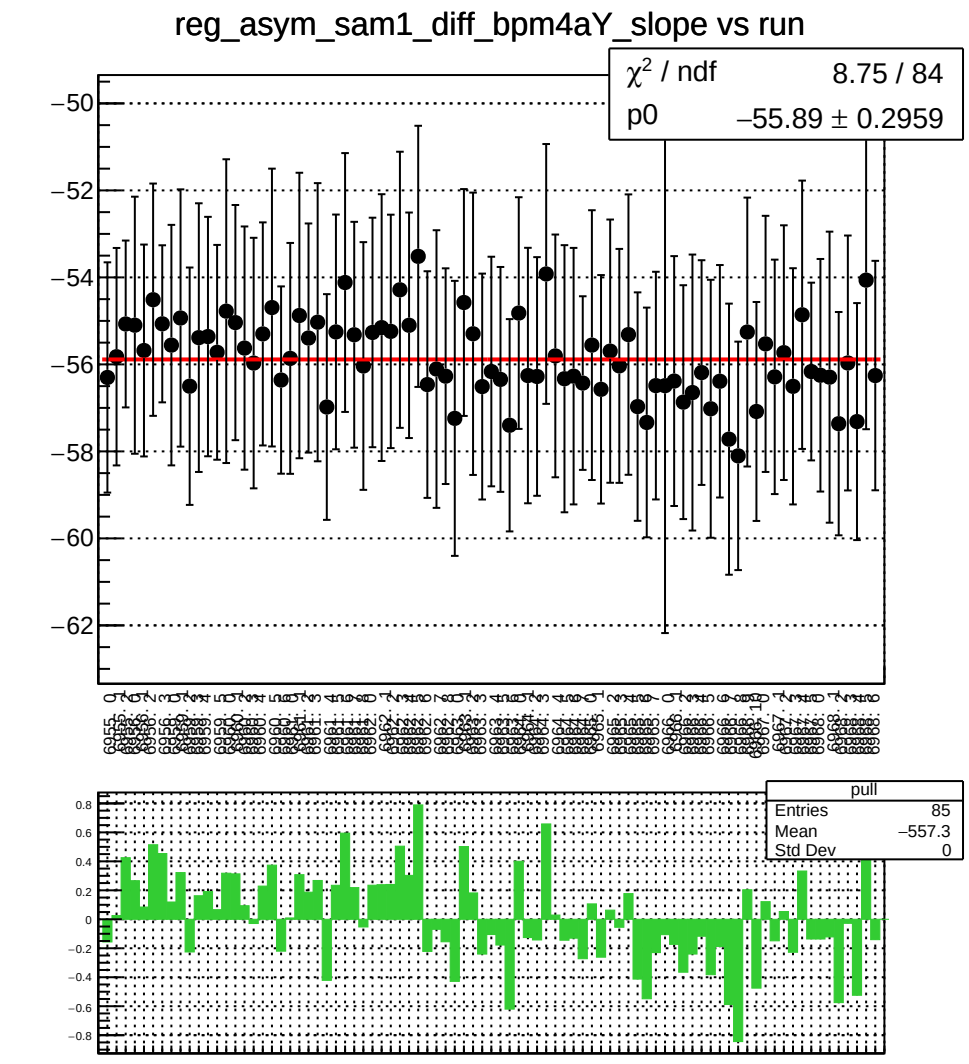

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 84
p0 36.85 ± 0.02903
65
60
55
50
45
40
35
30

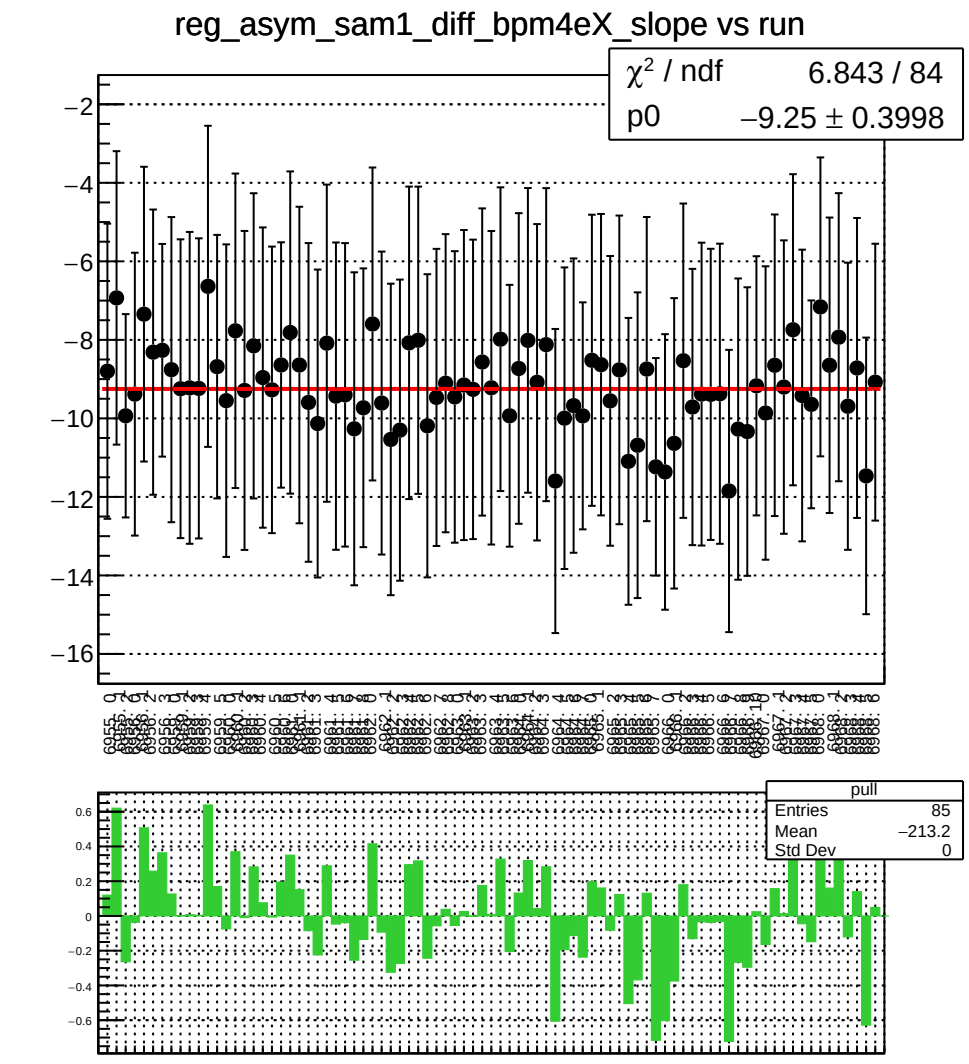

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.53 / 84
p0 1.523e−14 ± 2.322e−14
pull
Entries 85
Mean 33.44
Std Dev 22.8

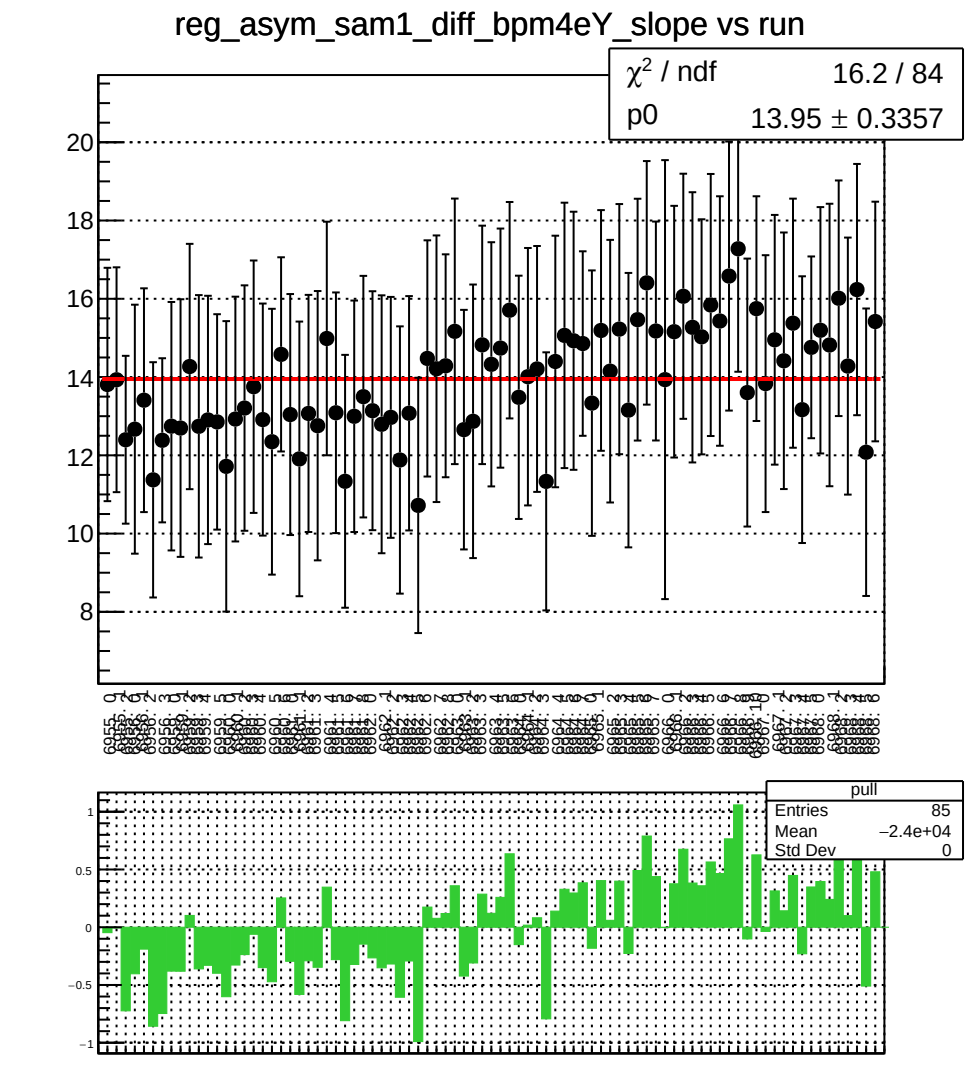

pull1D
Entries 85
Mean 0.06332
Std Dev 0.9893

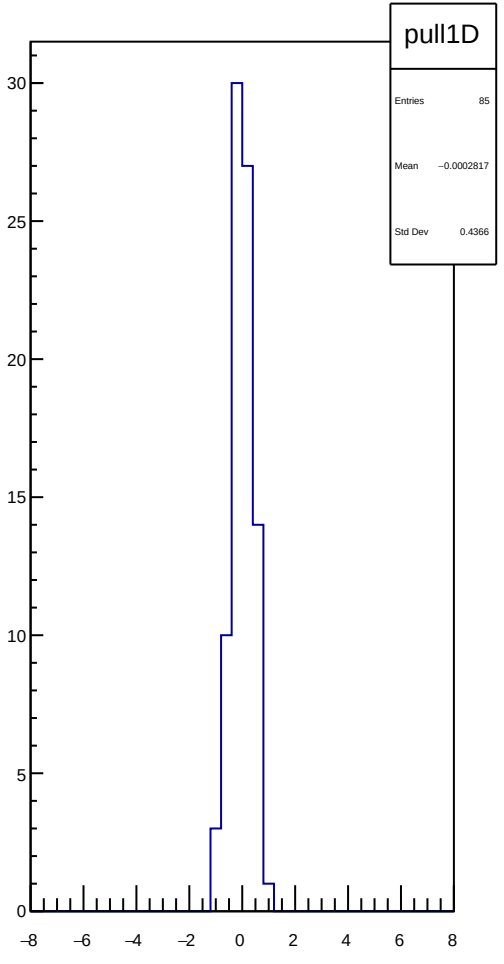

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.853e+05 / 84
p0 1.766e−11 ± 1.642e−14
0.1
0.08
0.06
0.04
0.02

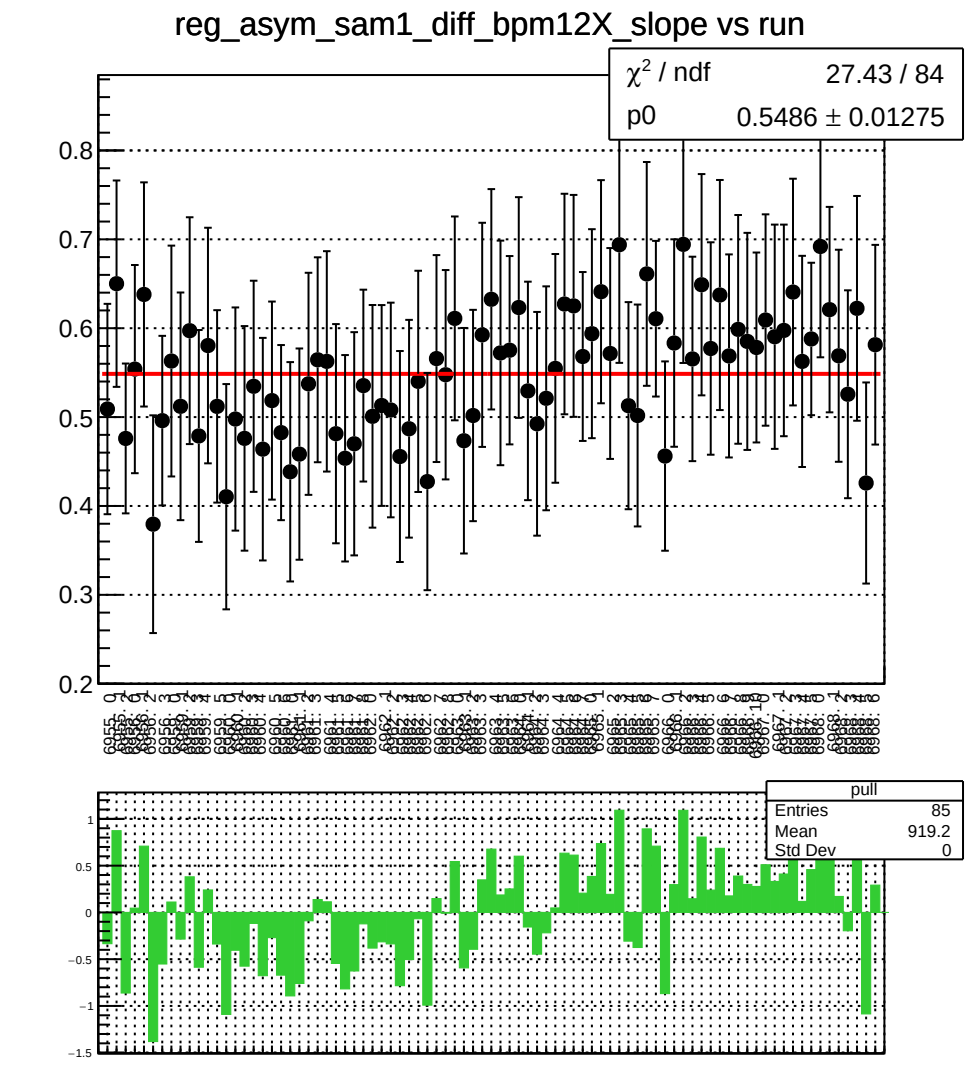

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 6.774 / 84
p0 −5.414 ± 0.4329
pull
Entries 85
Mean −291.6
Std Dev 0
pull1D
Entries 85
Mean −0.007175
Std Dev 0.2822

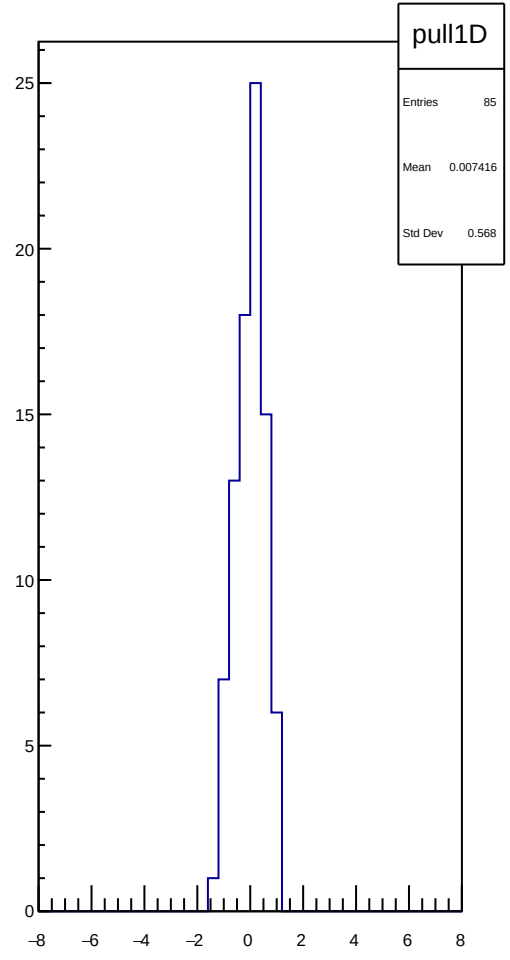

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 8.75 / 84
p0 −55.89 ± 0.2959
pull
Entries 85
Mean −557.3
Std Dev 0
pull1D
Entries 85
Mean 0.005782
Std Dev 0.3208

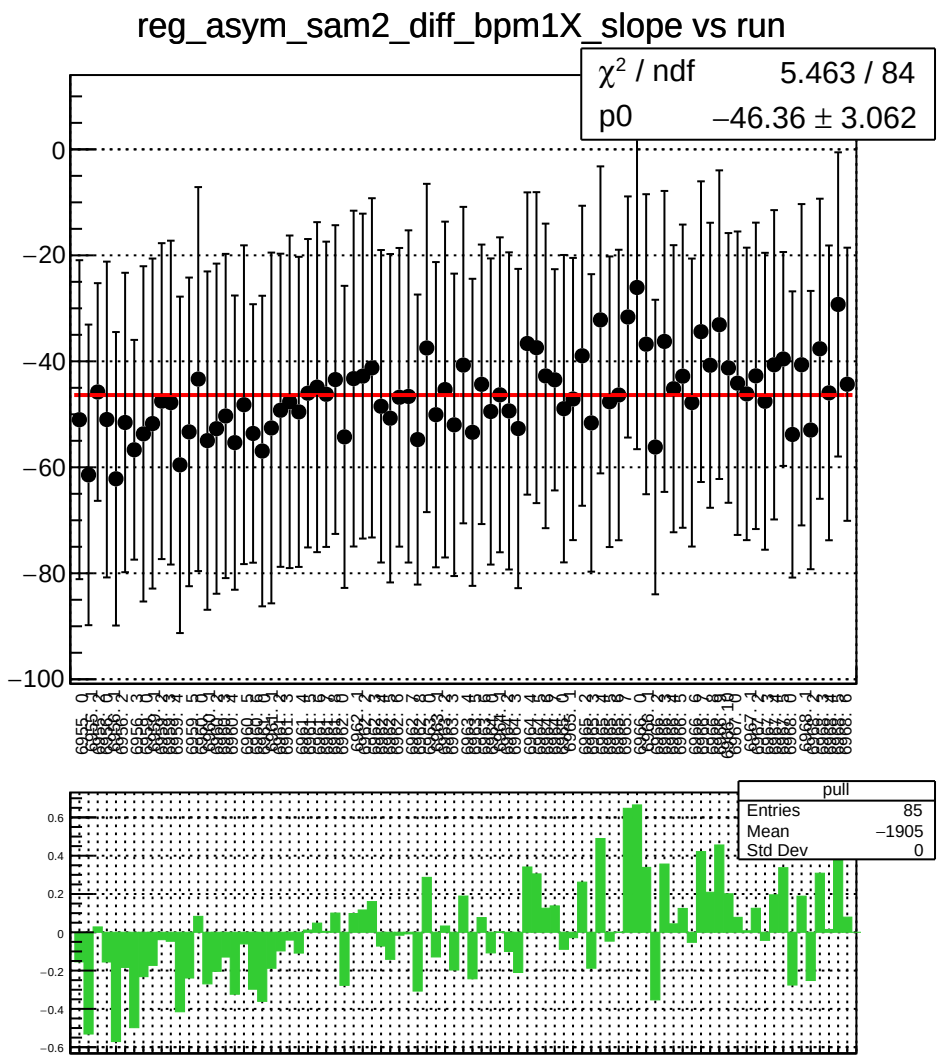

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 6.843 / 84
p0 −9.25 ± 0.3998
pull
Entries 85
Mean −213.2
Std Dev 0
pull1D
Entries 85
Mean 0.007932
Std Dev 0.2836

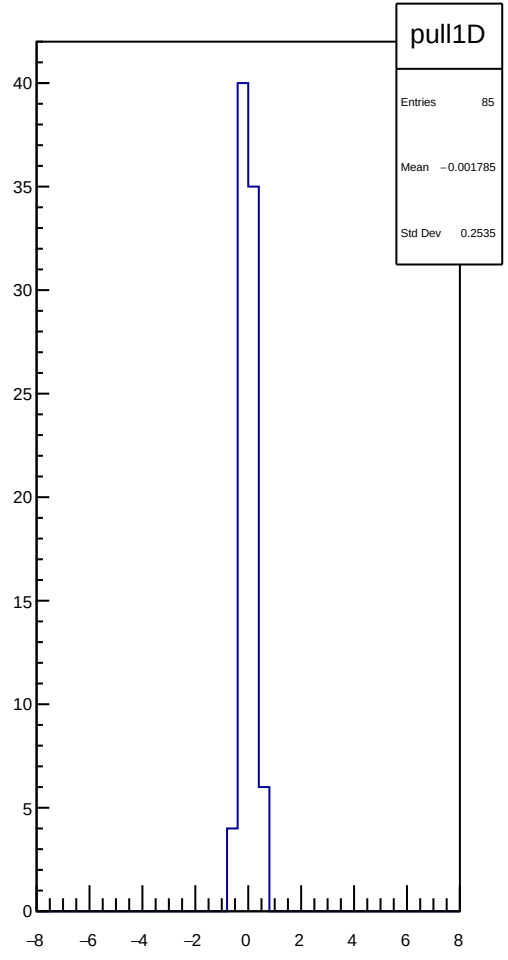

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 16.2 / 84
p0 13.95 ± 0.3357
pull
Entries 85
Mean −2.4e+04
Std Dev 0

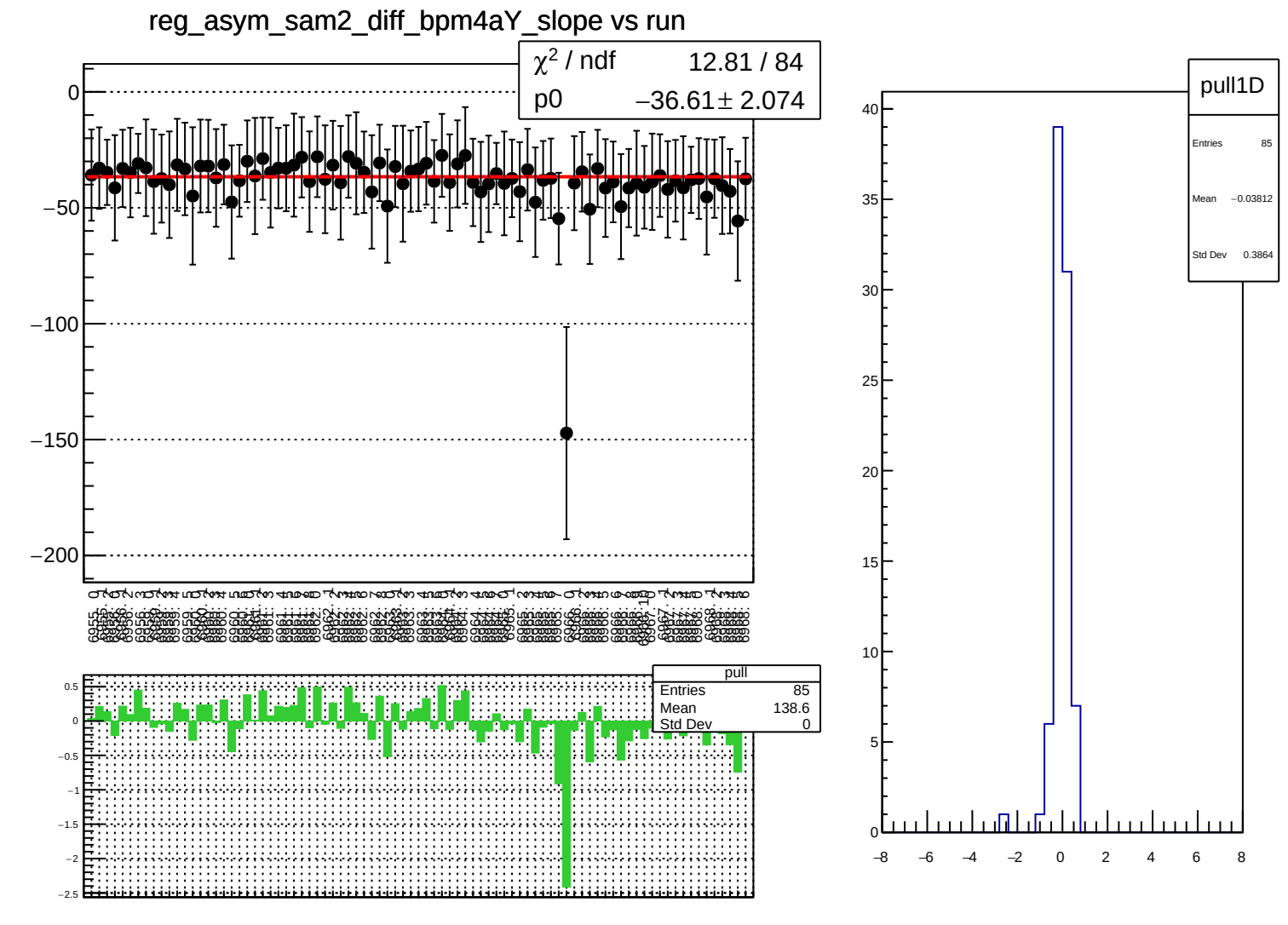

pull1D
Entries 85
Mean −0.0002817
Std Dev 0.4366

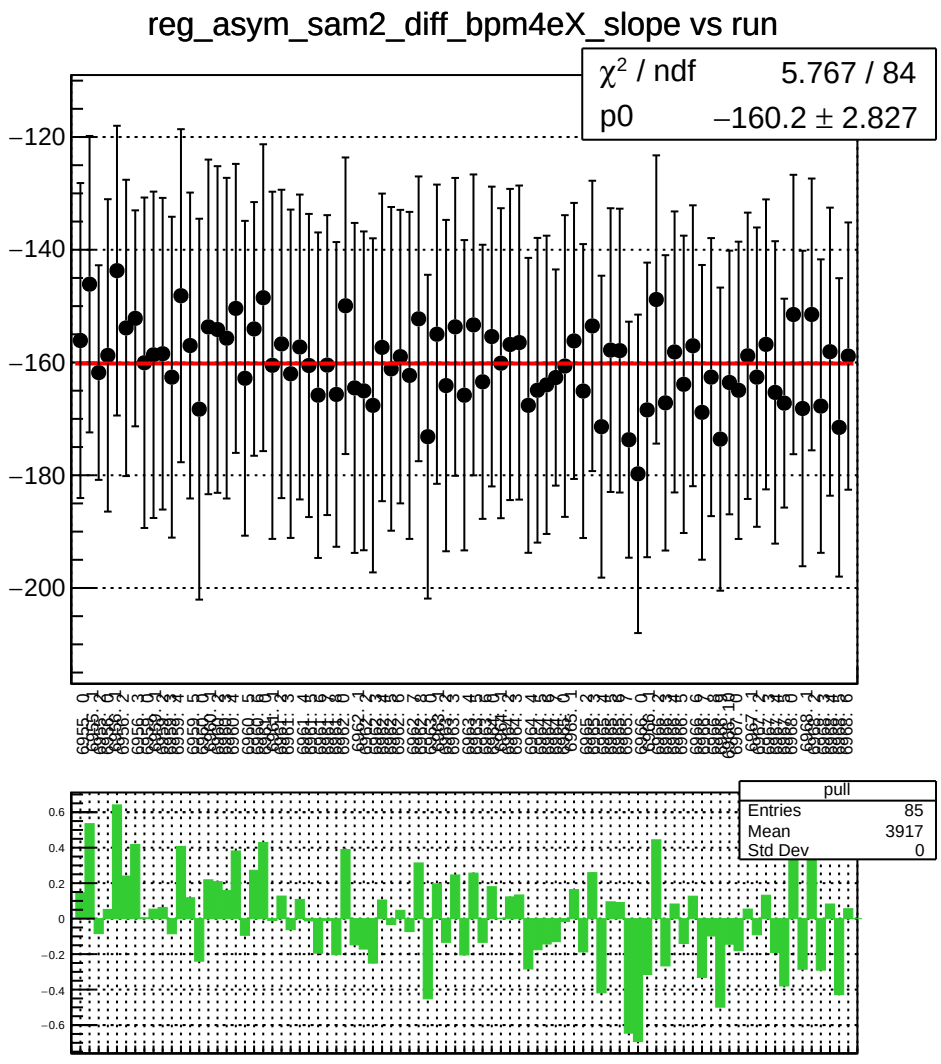

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 27.43 / 84
p0 0.5486 ± 0.01275
pull
Entries 85
Mean 919.2
Std Dev 0

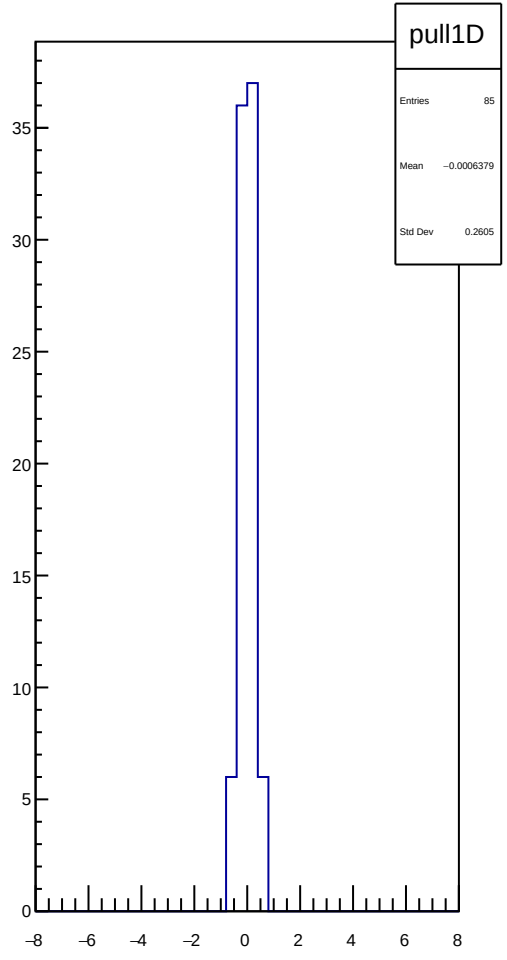

pull1D
Entries 85
Mean 0.007416
Std Dev 0.568

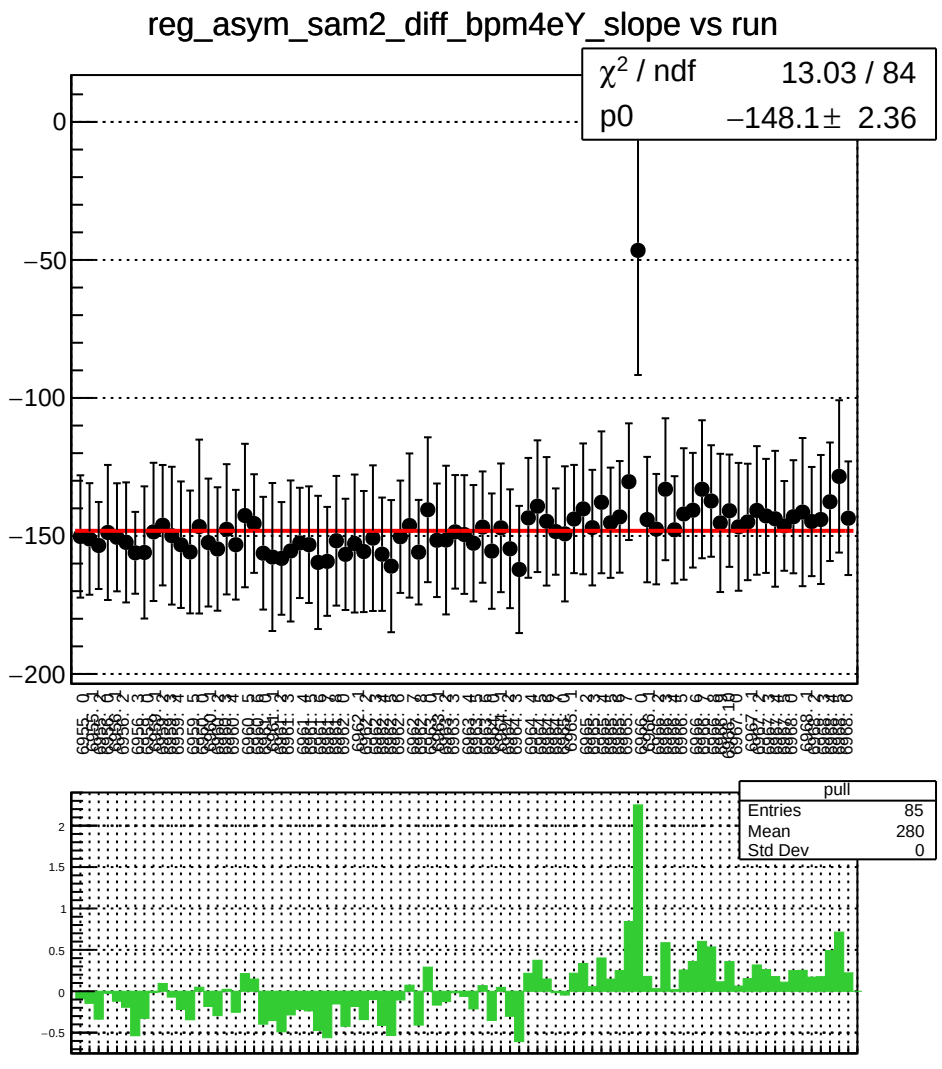

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 5.463 / 84
p0 −46.36 ± 3.062
pull
Entries 85
Mean −1905
Std Dev 0

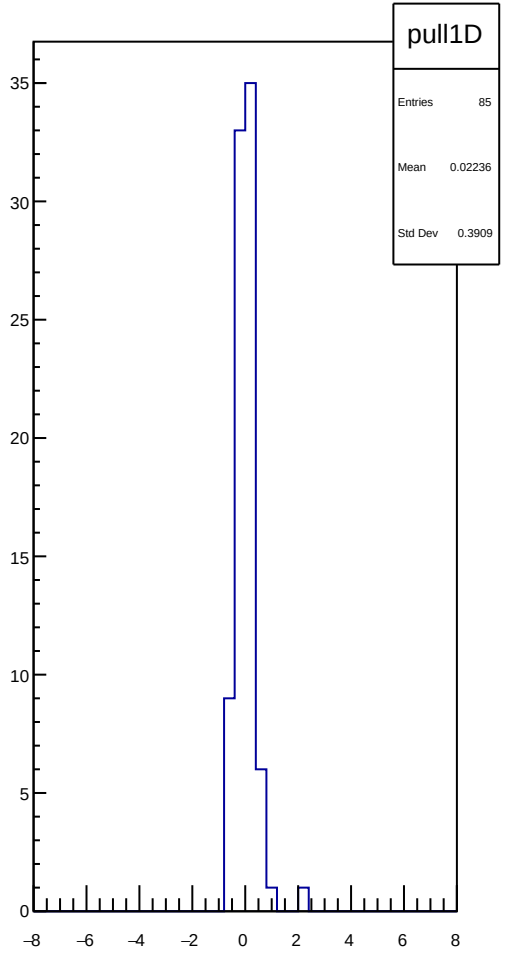

pull1D
Entries 85
Mean −0.001785
Std Dev 0.2535

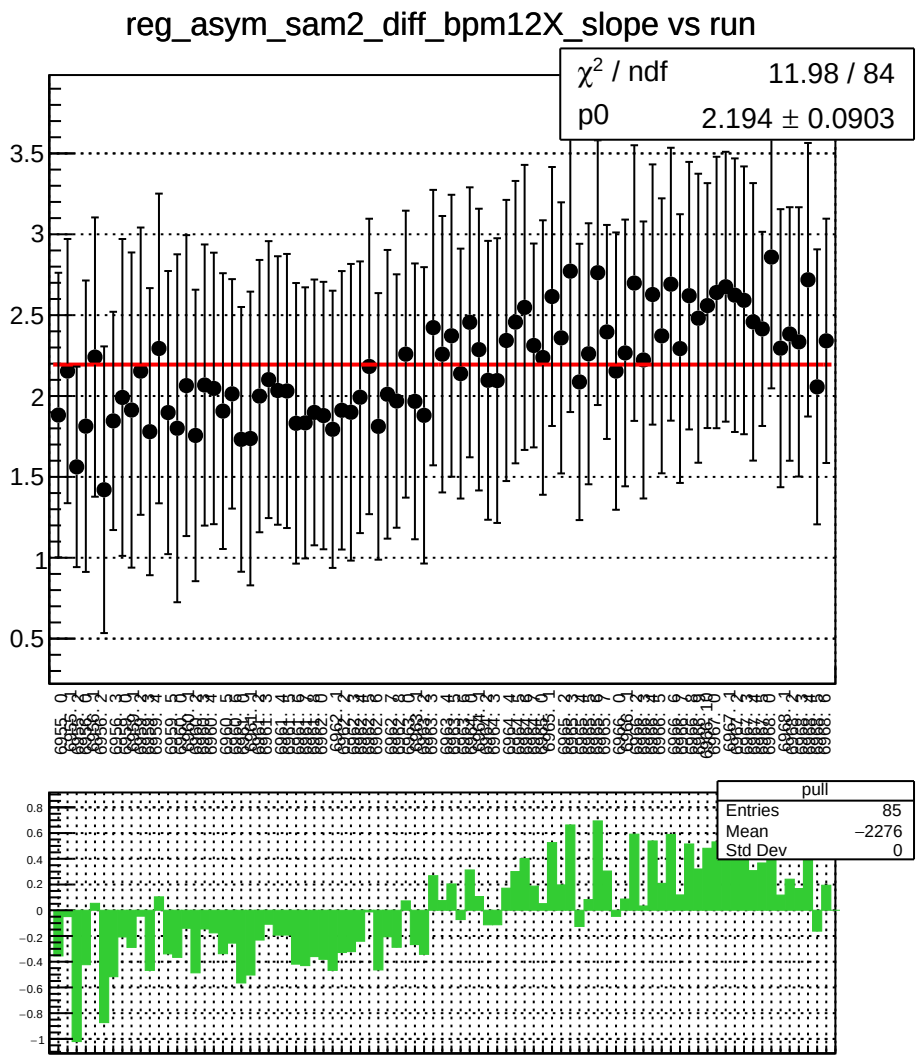

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 12.81 / 84
p0 −36.61 ± 2.074
0
−50
−100
−150
−200
pull
Entries 85
Mean 138.6
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean −0.03812
Std Dev 0.3864
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

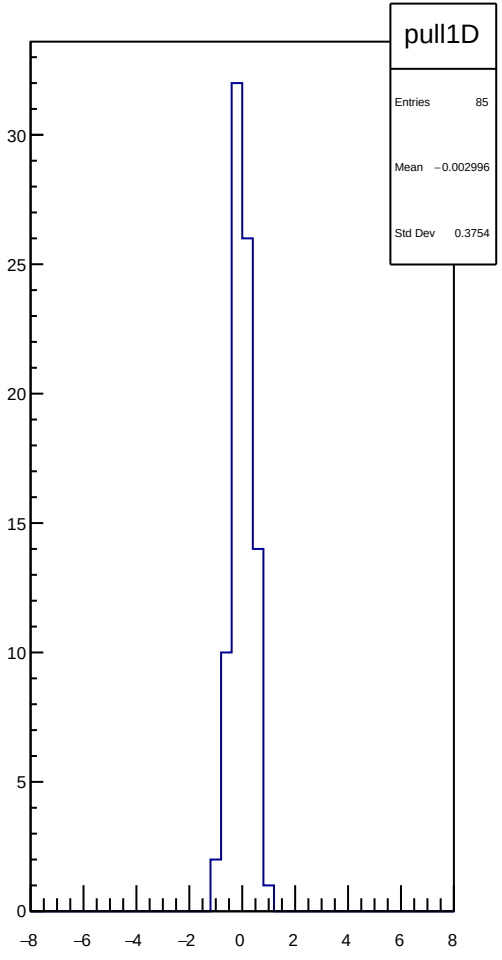

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 5.767 / 84
p0 −160.2 ± 2.827
−120
−140
−160
−180
−200
pull
Entries 85
Mean 3917
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

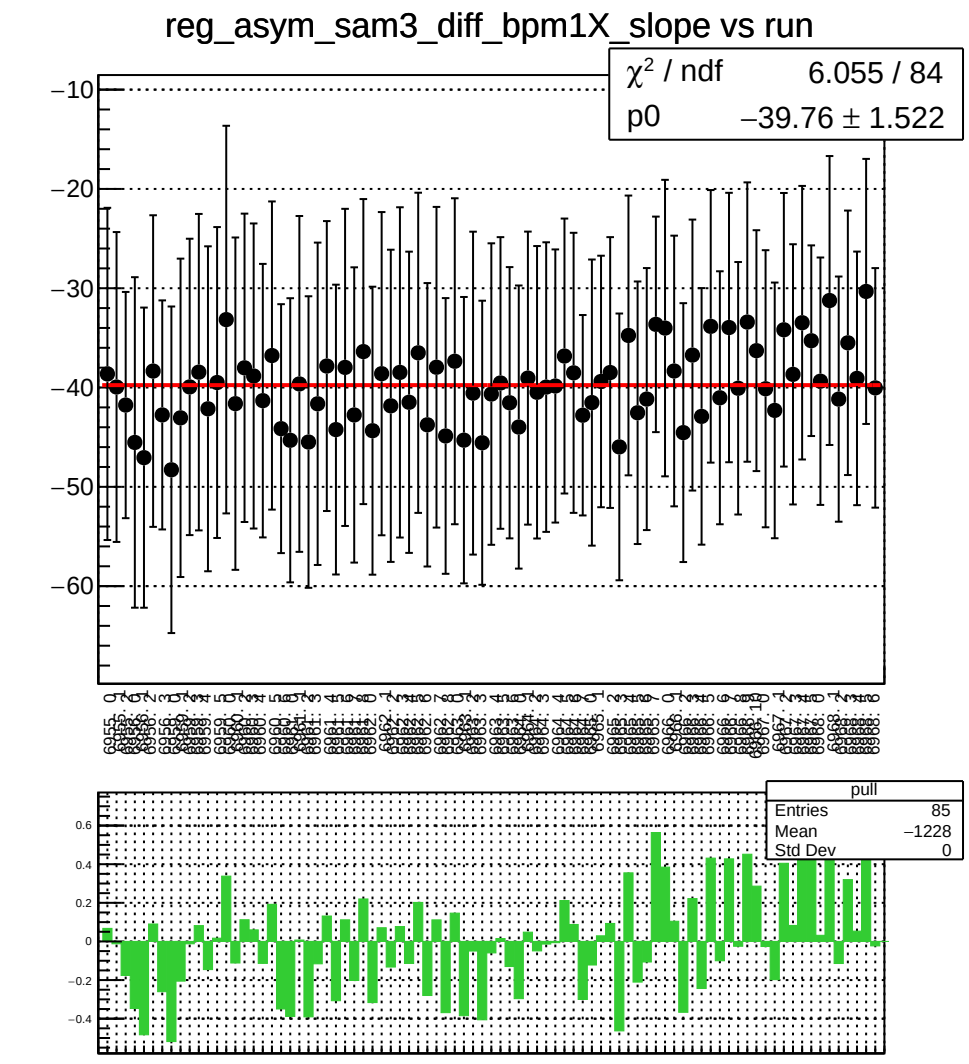

pull1D
Entries 85
Mean −0.0006379
Std Dev 0.2605
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

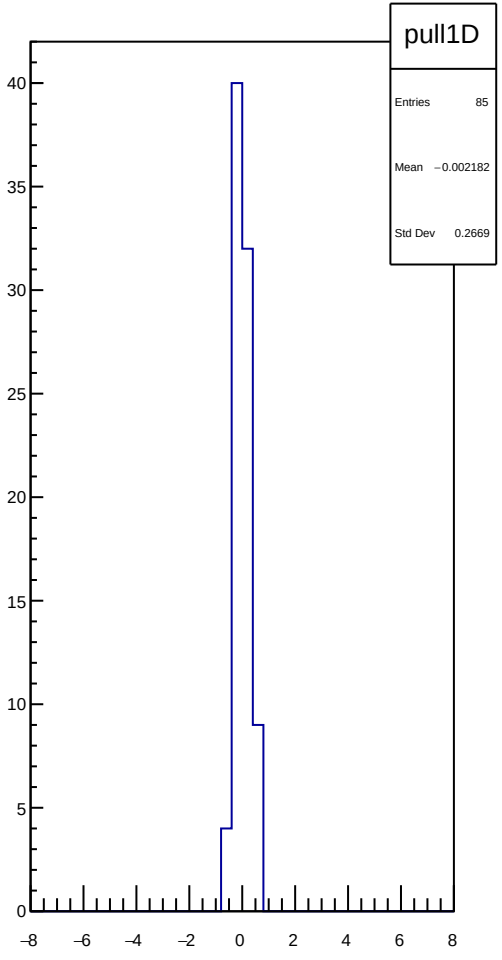

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 13.03 / 84
p0 −148.1± 2.36
0
−50
−100
−150
−200
pull
Entries 85
Mean 280
Std Dev 0
2
1.5
1
0.5
0
−0.5

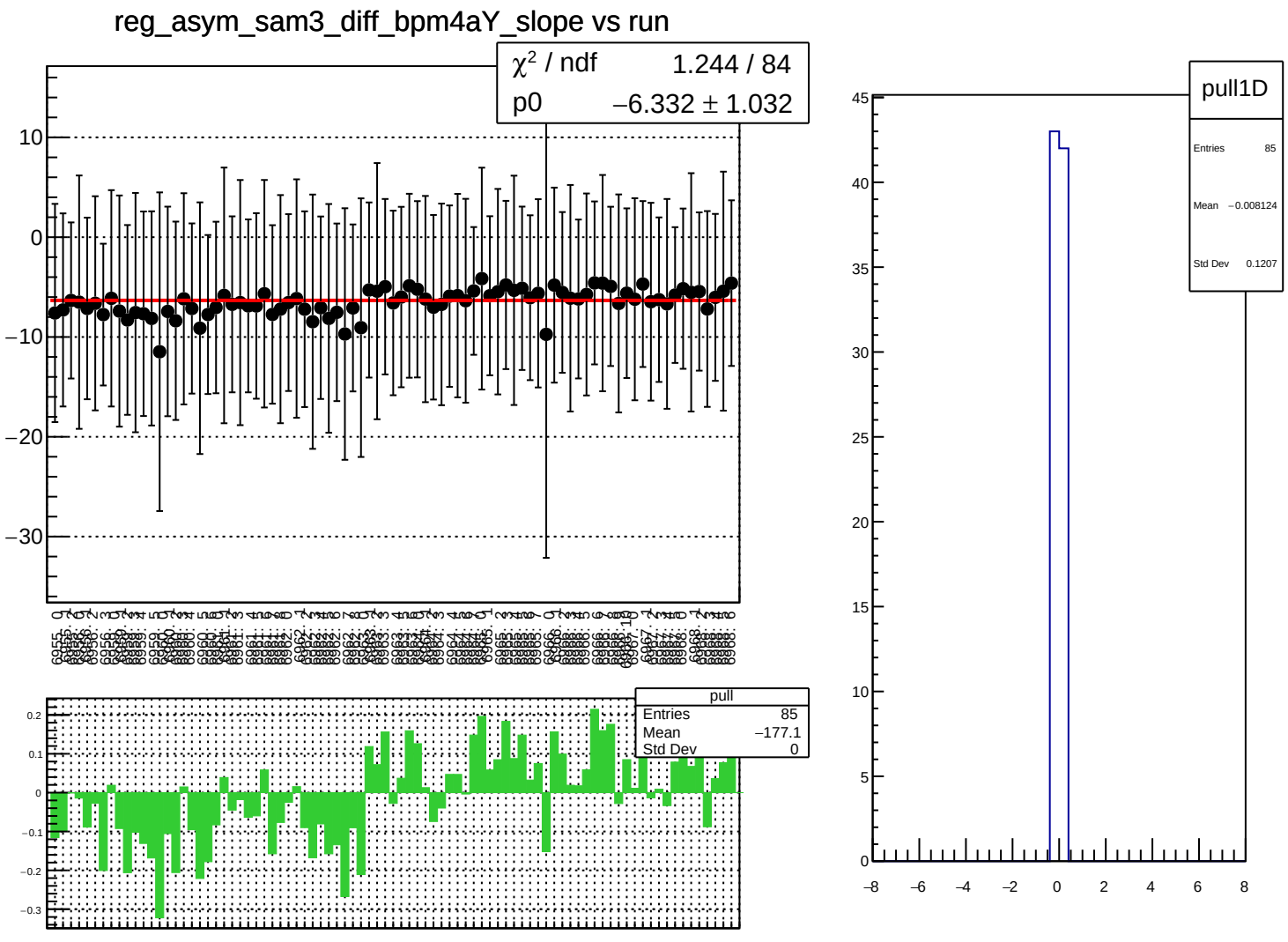

pull1D
Entries 85
Mean 0.02236
Std Dev 0.3909
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

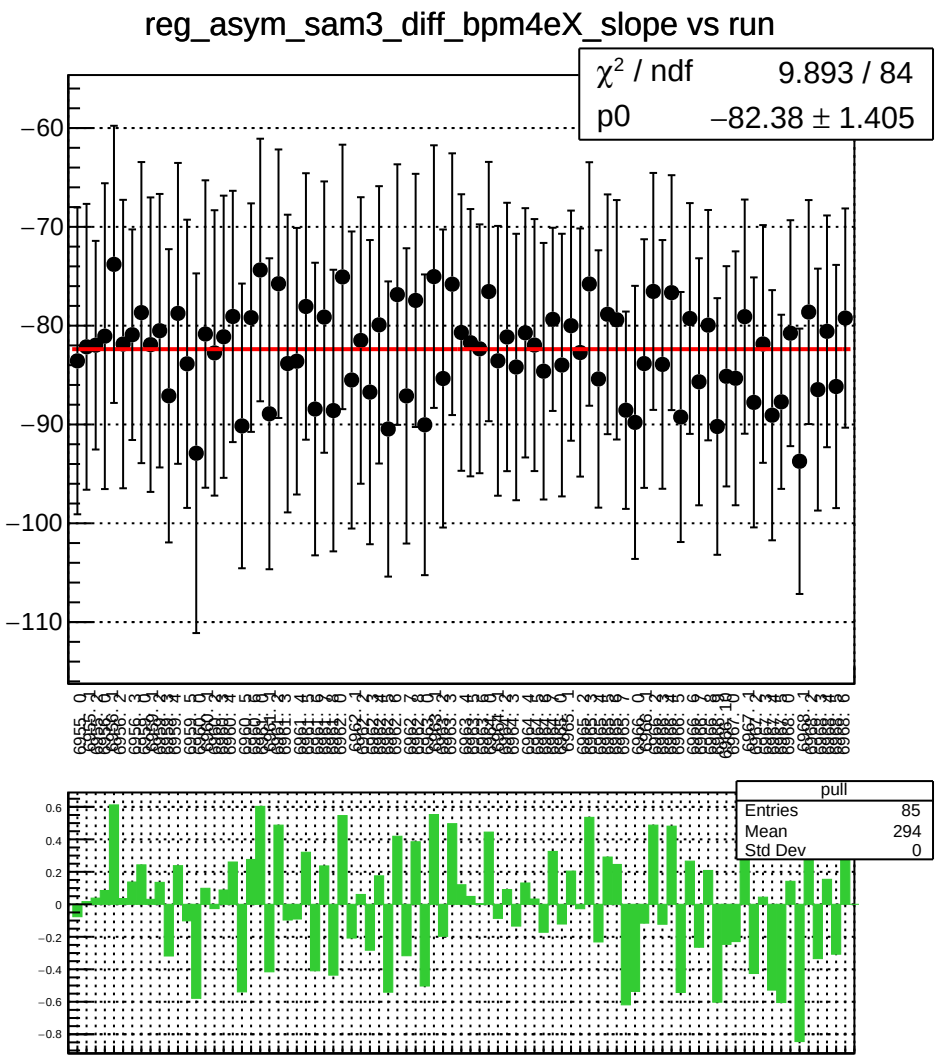

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 11.98 / 84
p0 2.194 ± 0.0903
pull
Entries 85
Mean −2276
Std Dev 0

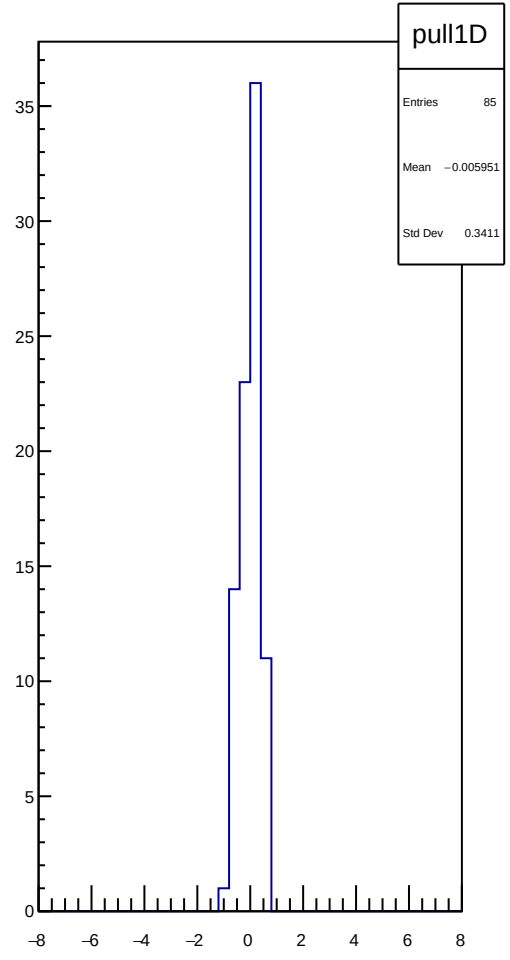

pull1D
Entries 85
Mean −0.002996
Std Dev 0.3754

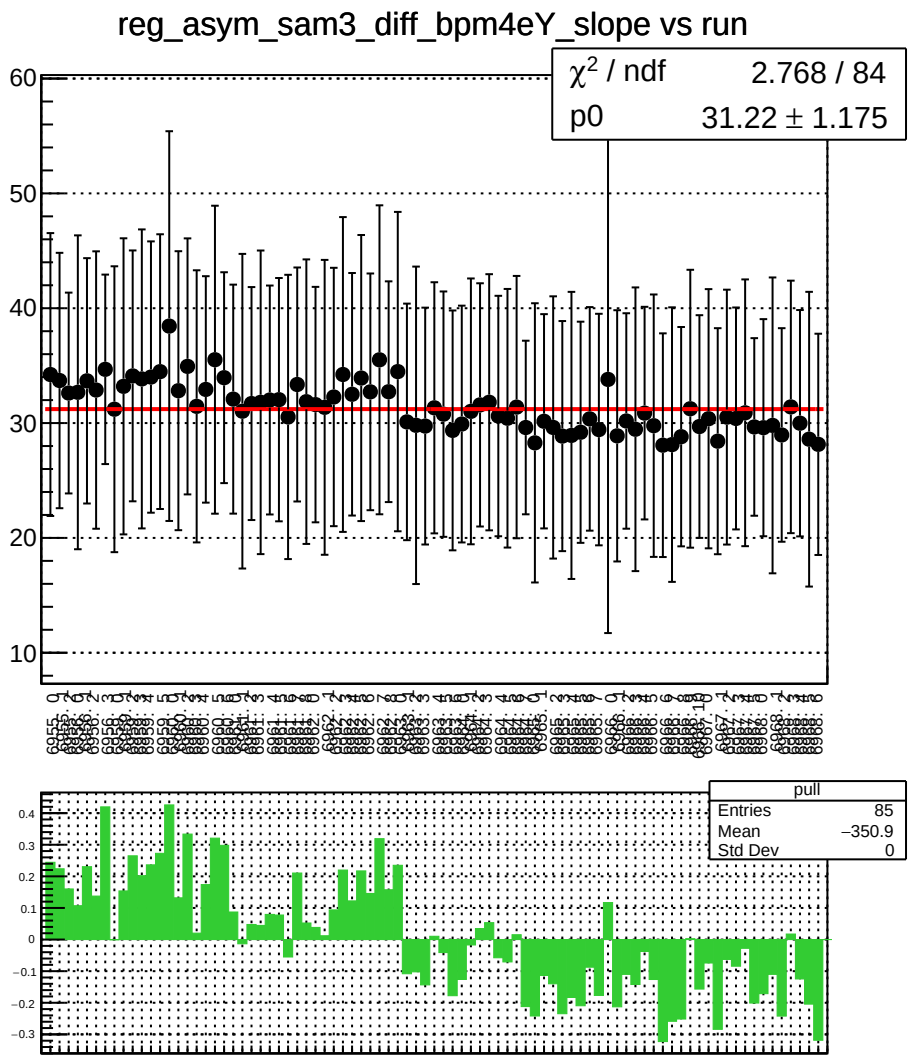

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 6.055 / 84
p0 −39.76 ± 1.522
pull
Entries 85
Mean −1228
Std Dev 0

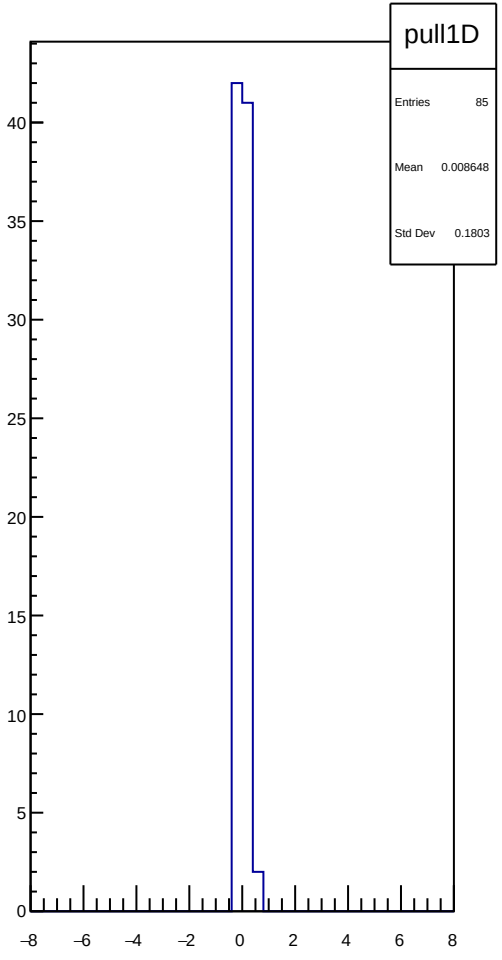

pull1D
Entries 85
Mean −0.002182
Std Dev 0.2669

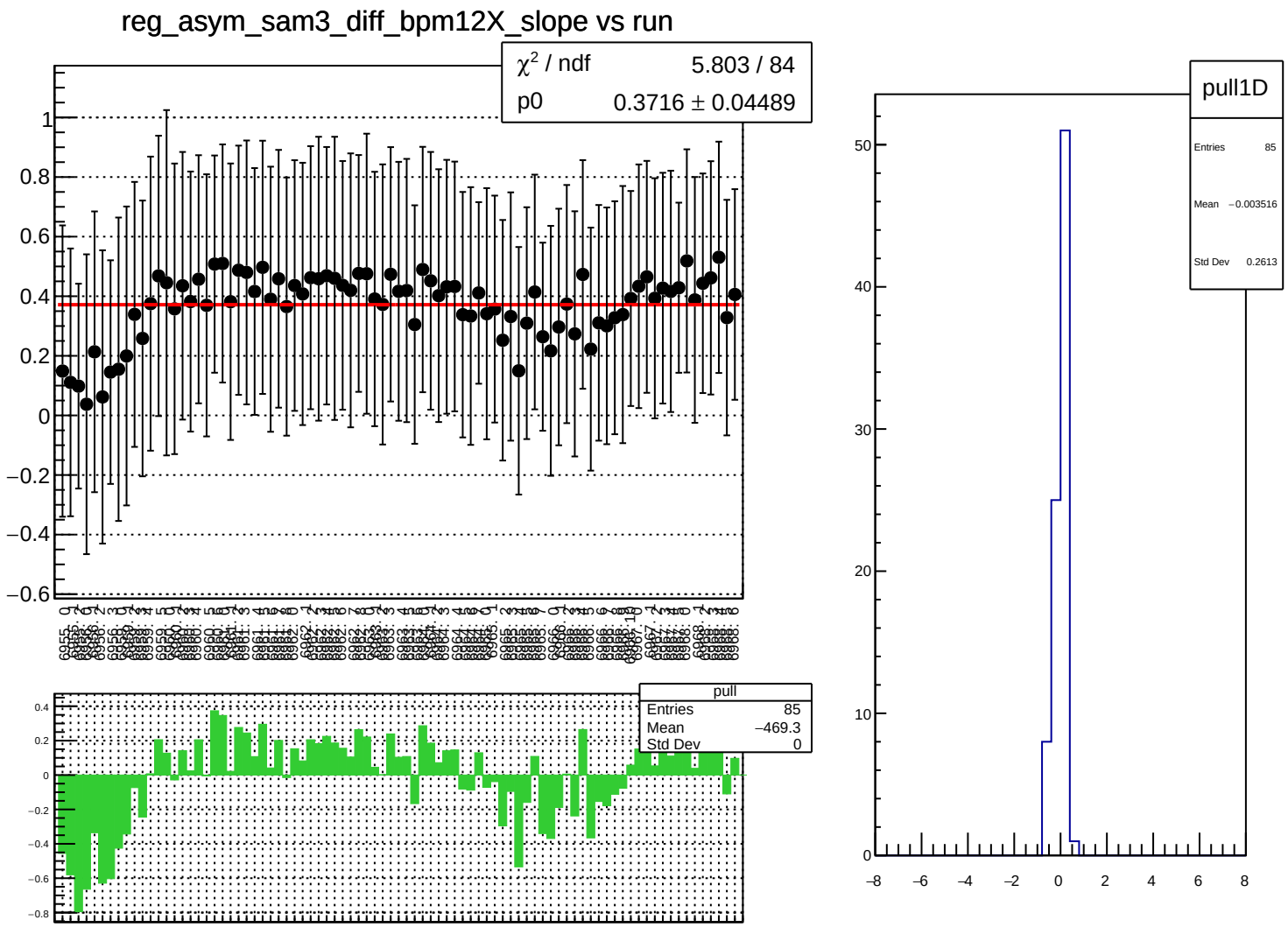

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.244 / 84
p0 −6.332 ± 1.032
pull
Entries 85
Mean −177.1
Std Dev 0
pull1D
Entries 85
Mean −0.008124
Std Dev 0.1207

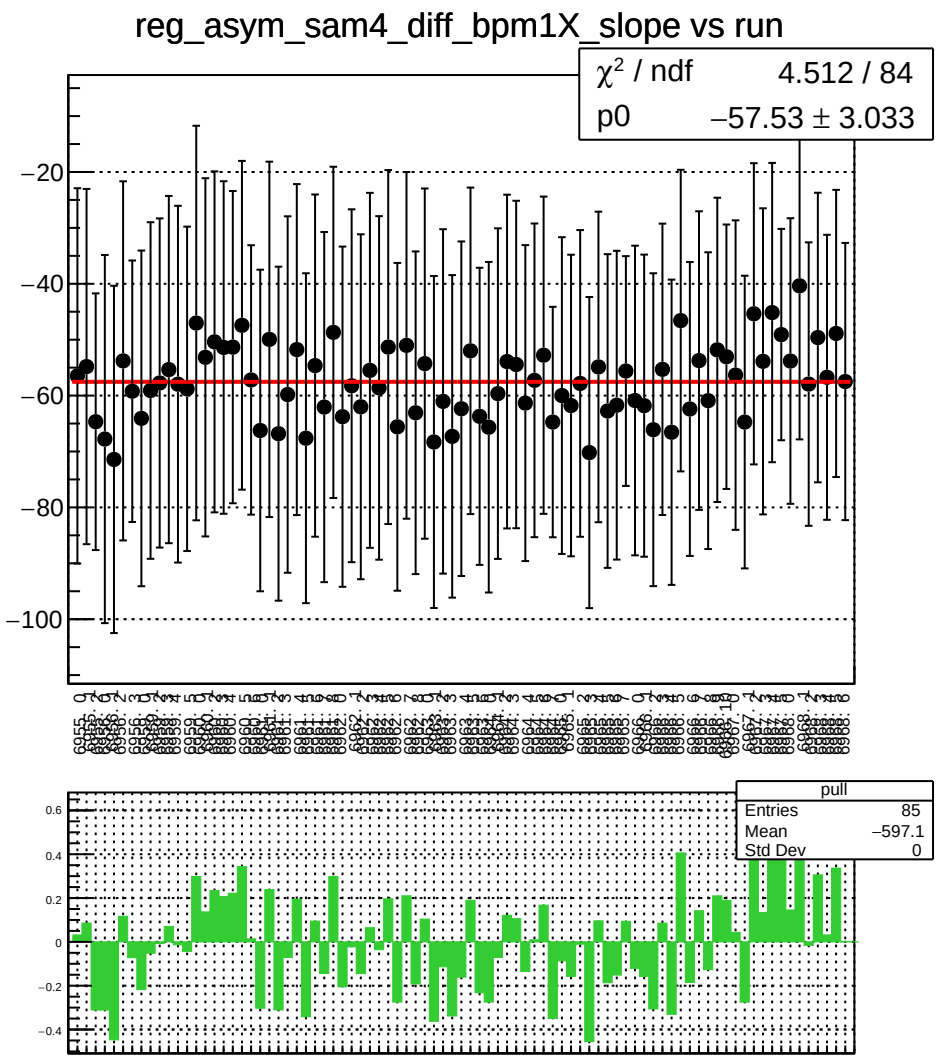

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 9.893 / 84
p0 −82.38 ± 1.405
−60
−70
−80
−90
−100
−110
pull
Entries 85
Mean 294
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

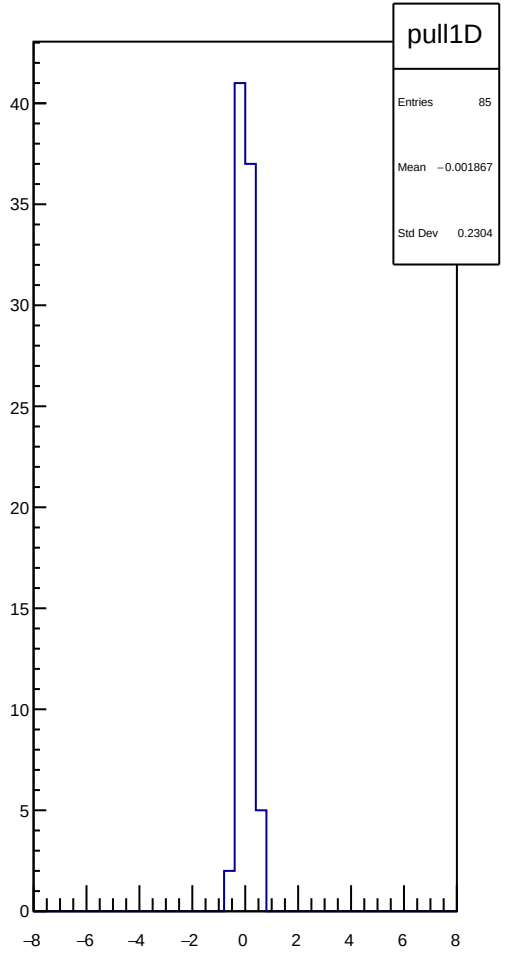

pull1D
Entries 85
Mean −0.005951
Std Dev 0.3411
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

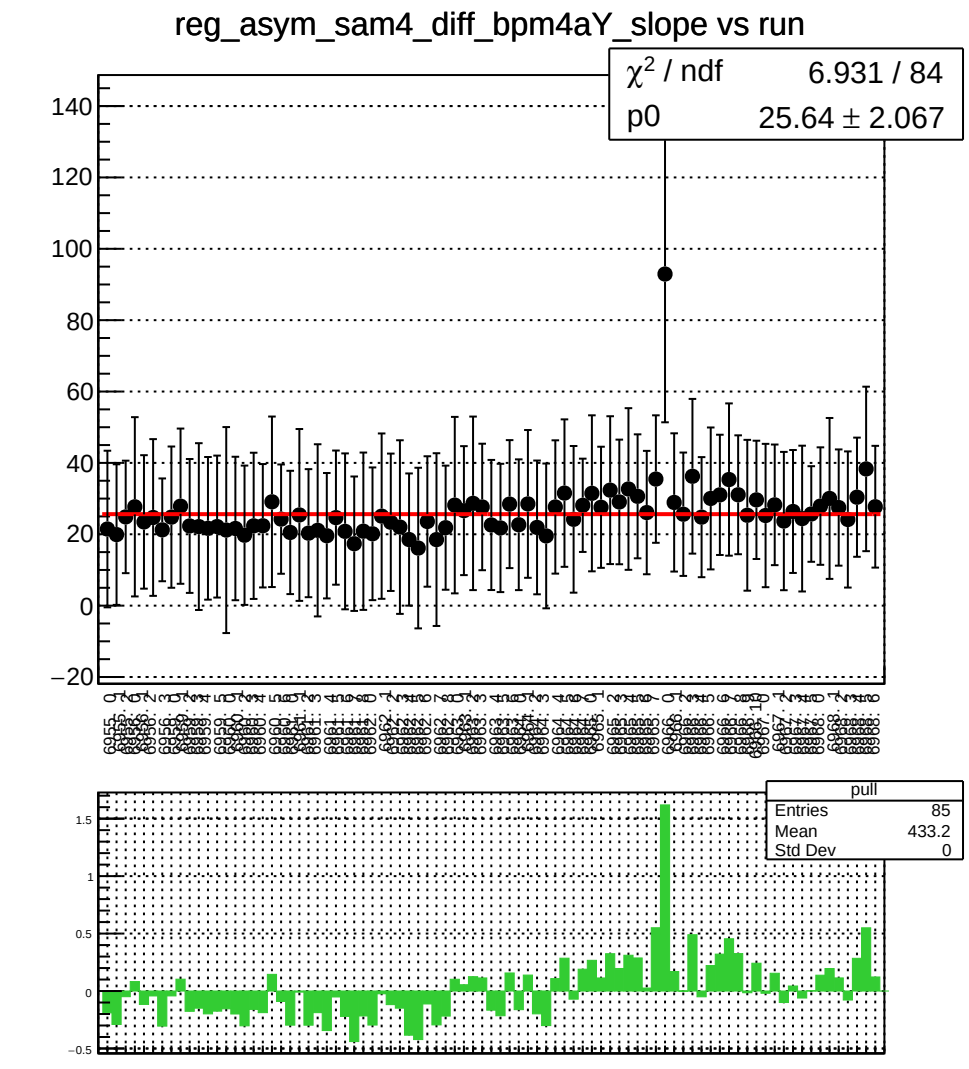

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.768 / 84
p0 31.22 ± 1.175
pull
Entries 85
Mean −350.9
Std Dev 0

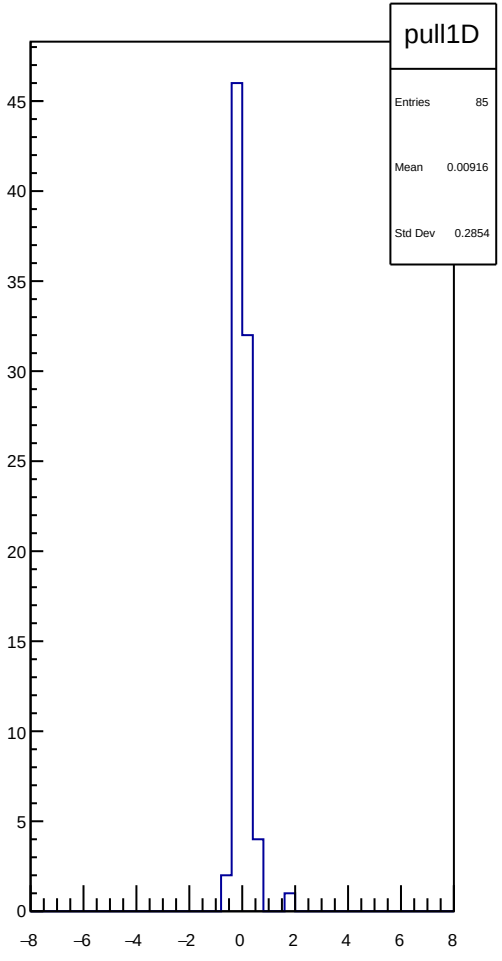

pull1D
Entries 85
Mean 0.008648
Std Dev 0.1803

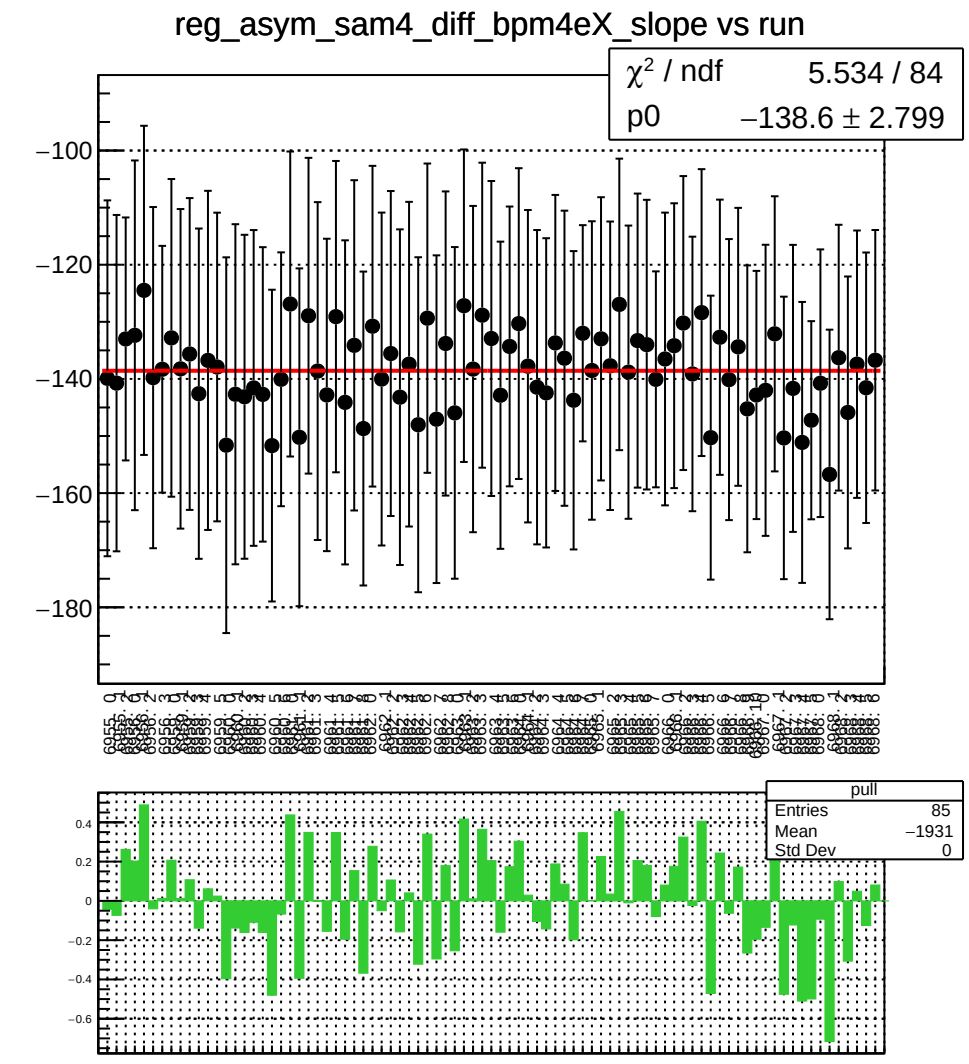

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 5.803 / 84
p0 0.3716 ± 0.04489
pull
Entries 85
Mean −469.3
Std Dev 0
pull1D
Entries 85
Mean −0.003516
Std Dev 0.2613

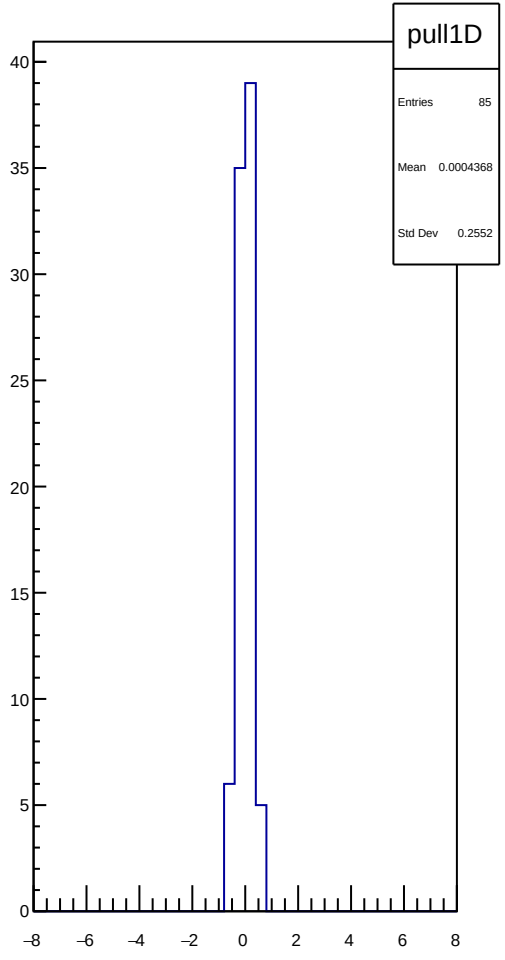

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 4.512 / 84
p0 −57.53 ± 3.033
−20
−40
−60
−80
−100
pull
Entries 85
Mean −597.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

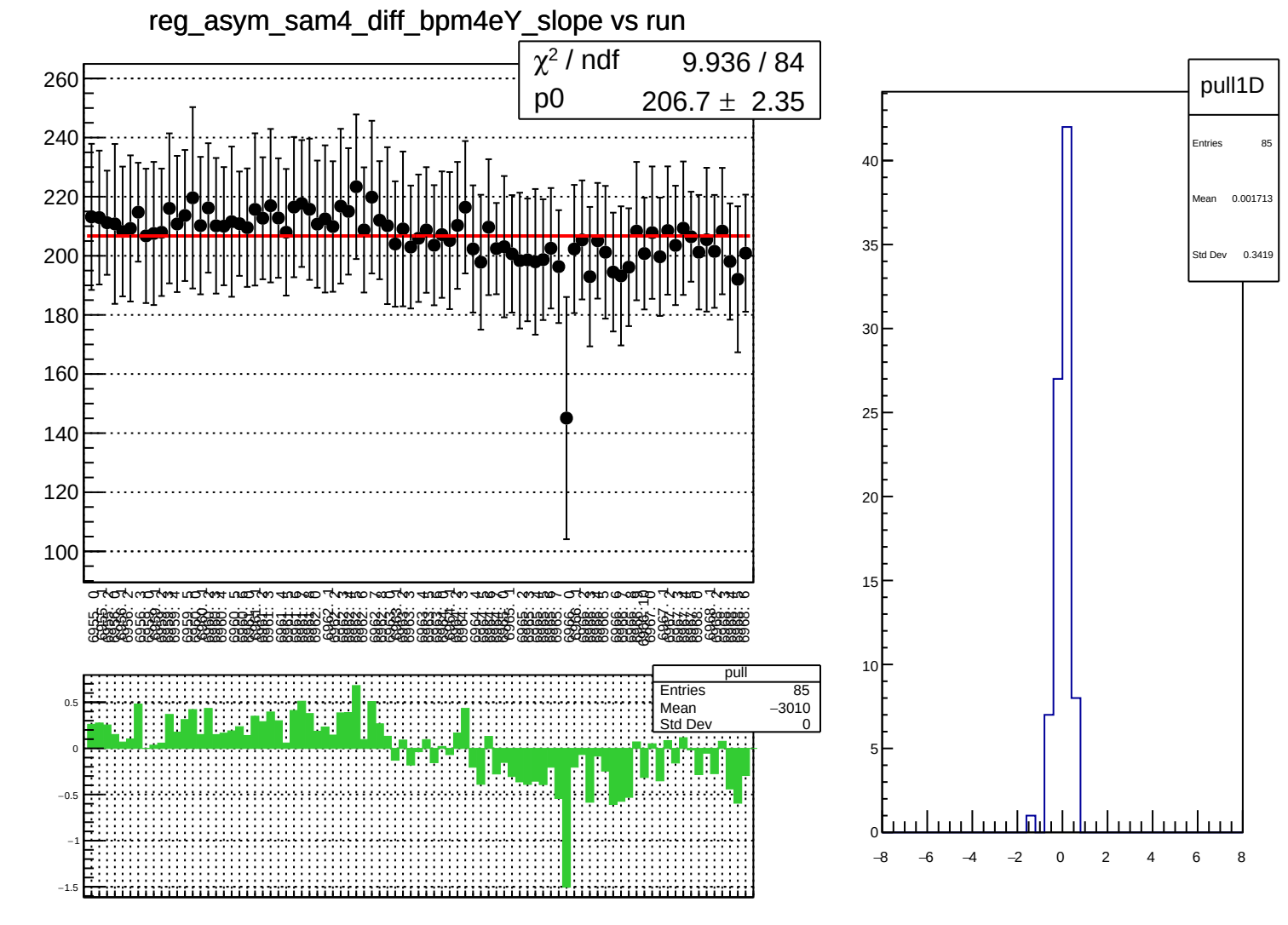

pull1D
Entries 85
Mean −0.001867
Std Dev 0.2304
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

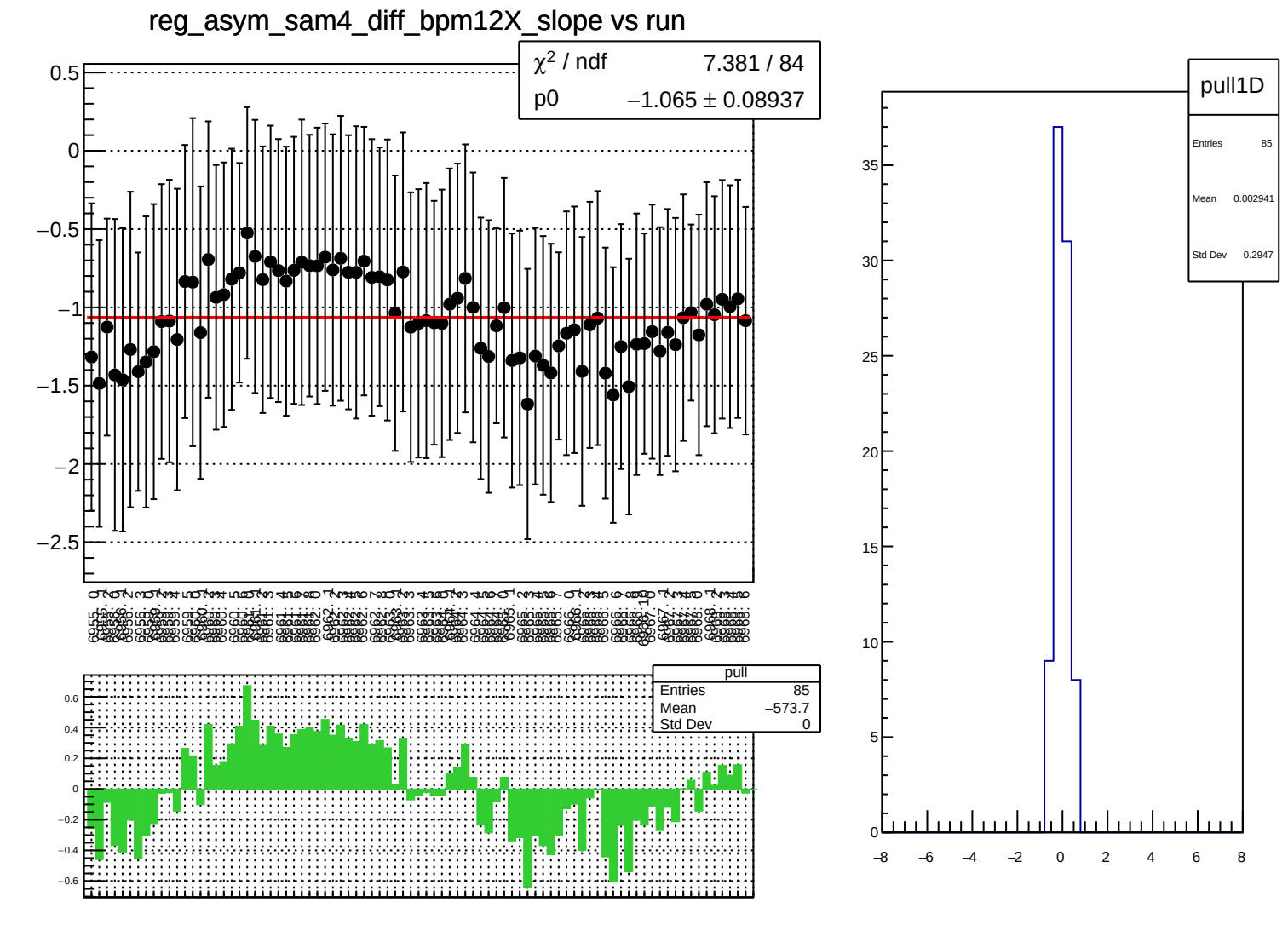

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 6.931 / 84
p0 25.64 ± 2.067
pull
Entries 85
Mean 433.2
Std Dev 0

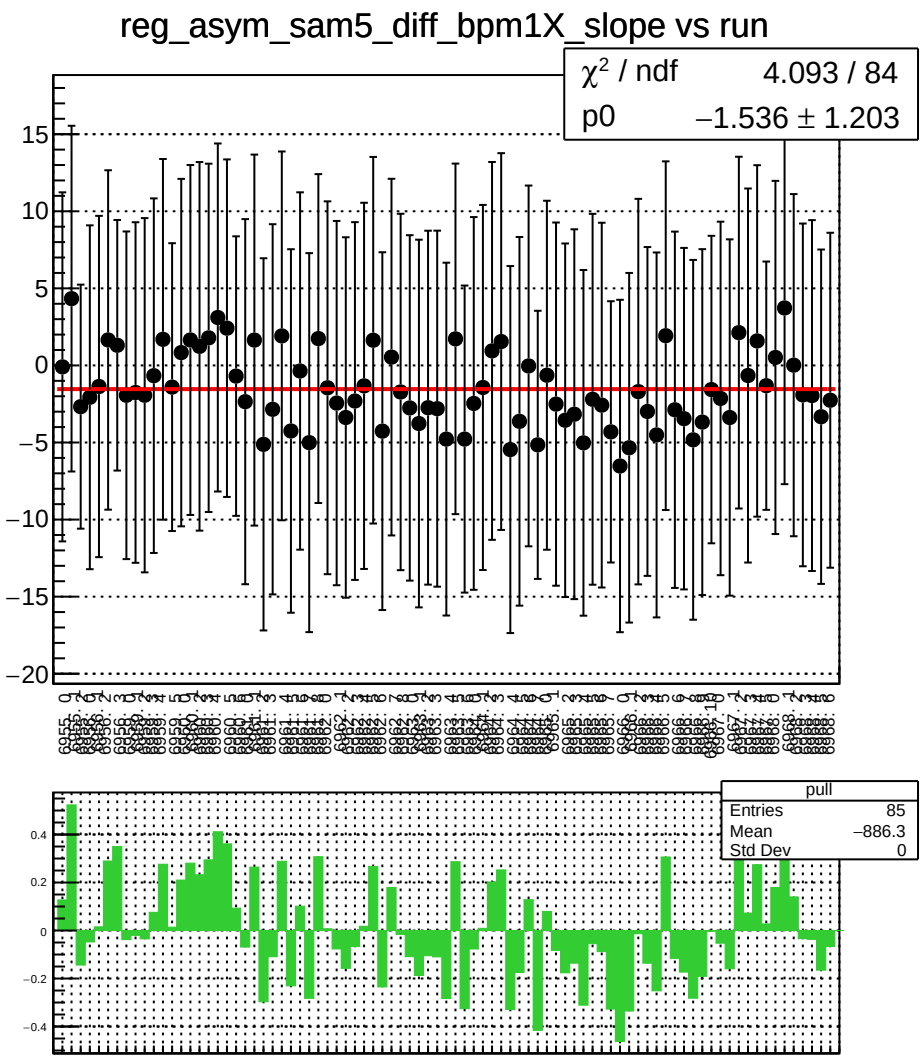

pull1D
Entries 85
Mean 0.00916
Std Dev 0.2854

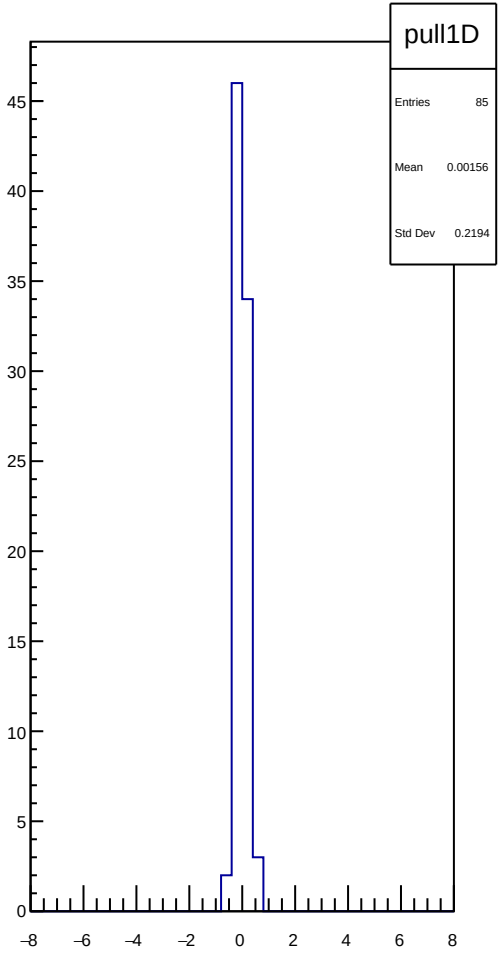

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 5.534 / 84
p0 −138.6 ± 2.799
−100
−120
−140
−160
−180
pull
Entries 85
Mean −1931
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

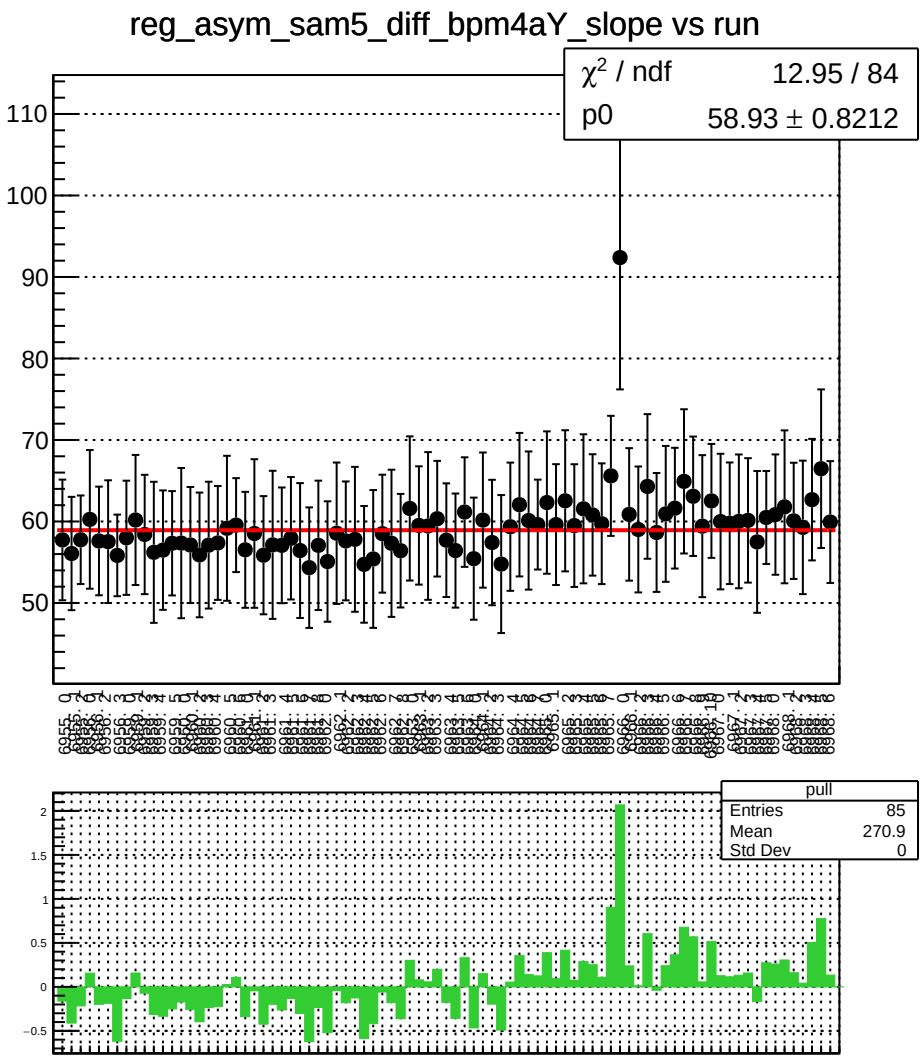

pull1D
Entries 85
Mean 0.0004368
Std Dev 0.2552
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

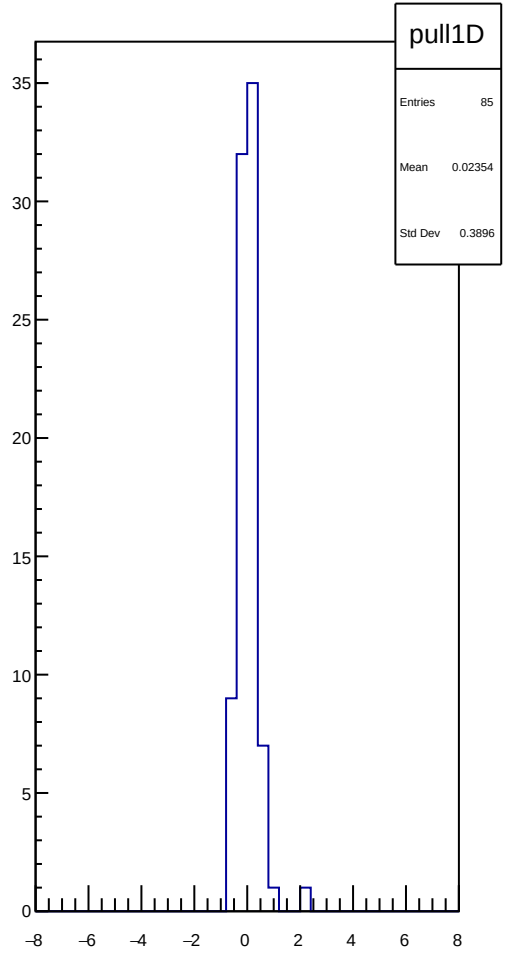

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 9.936 / 84
p0 206.7 ± 2.35
pull
Entries 85
Mean −3010
Std Dev 0
pull1D
Entries 85
Mean 0.001713
Std Dev 0.3419

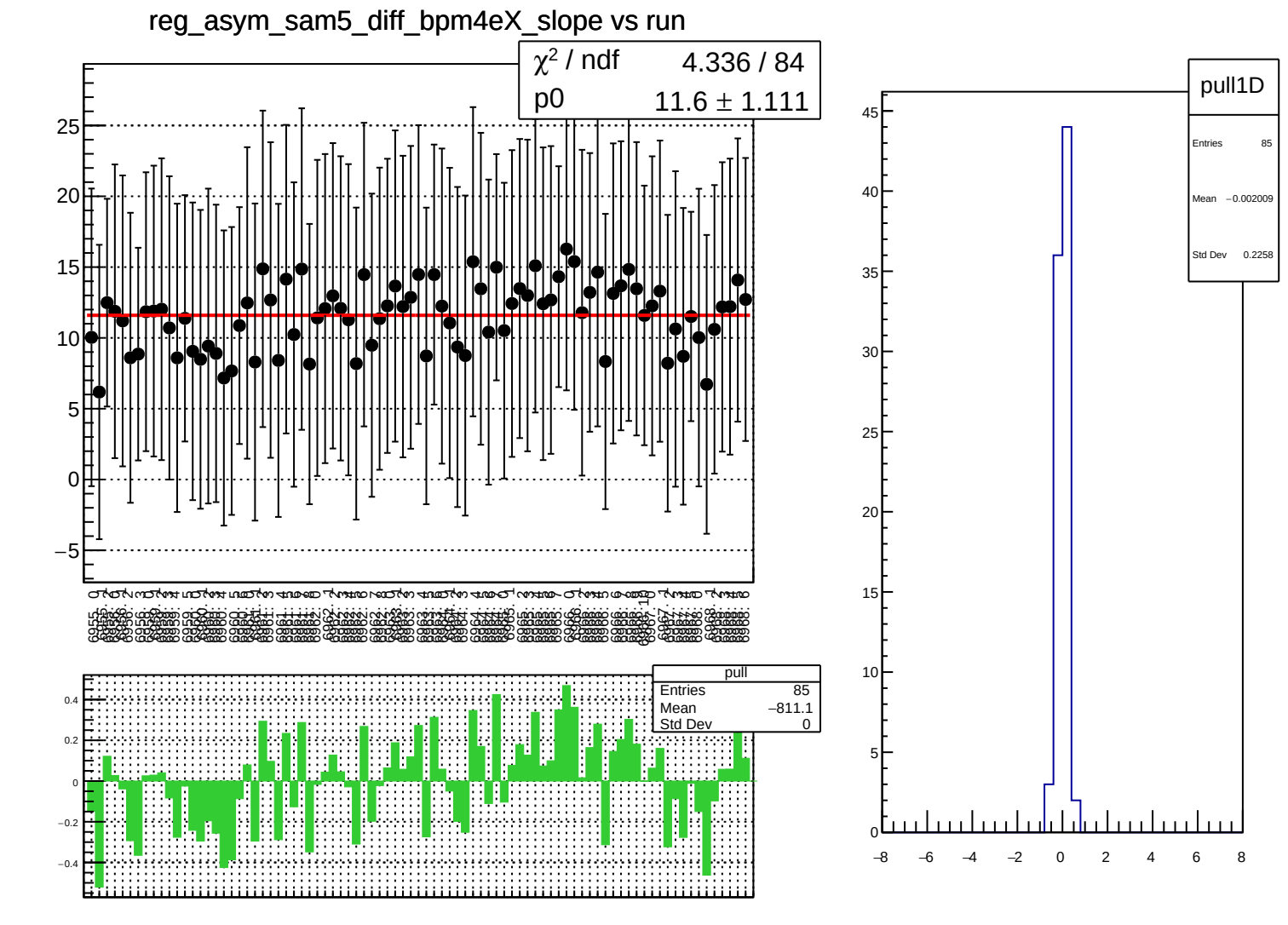

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 7.381 / 84
p0 −1.065 ± 0.08937
pull
Entries 85
Mean −573.7
Std Dev 0
pull1D
Entries 85
Mean 0.002941
Std Dev 0.2947

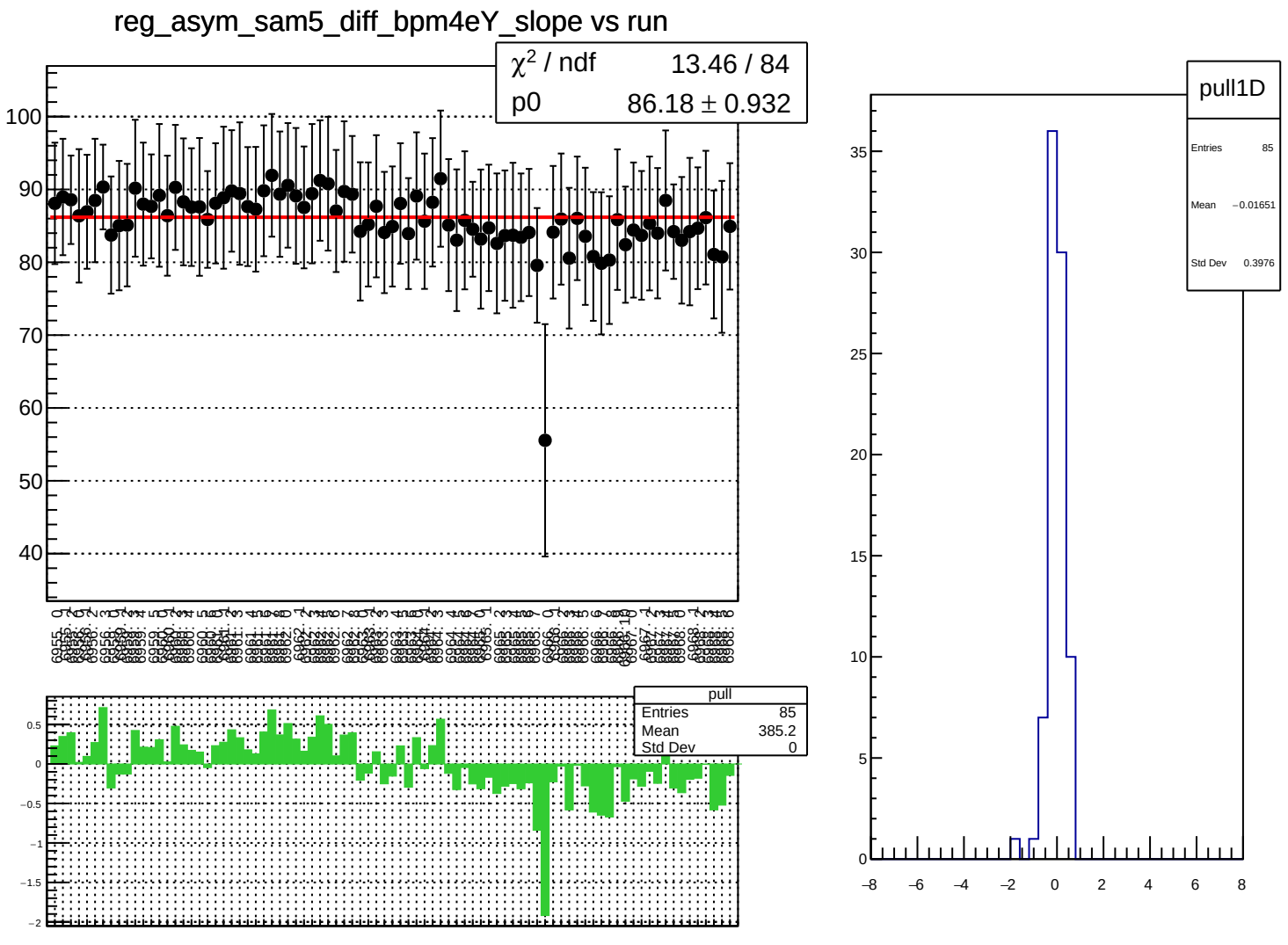

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 4.093 / 84
p0 −1.536 ± 1.203
pull
Entries 85
Mean −886.3
Std Dev 0

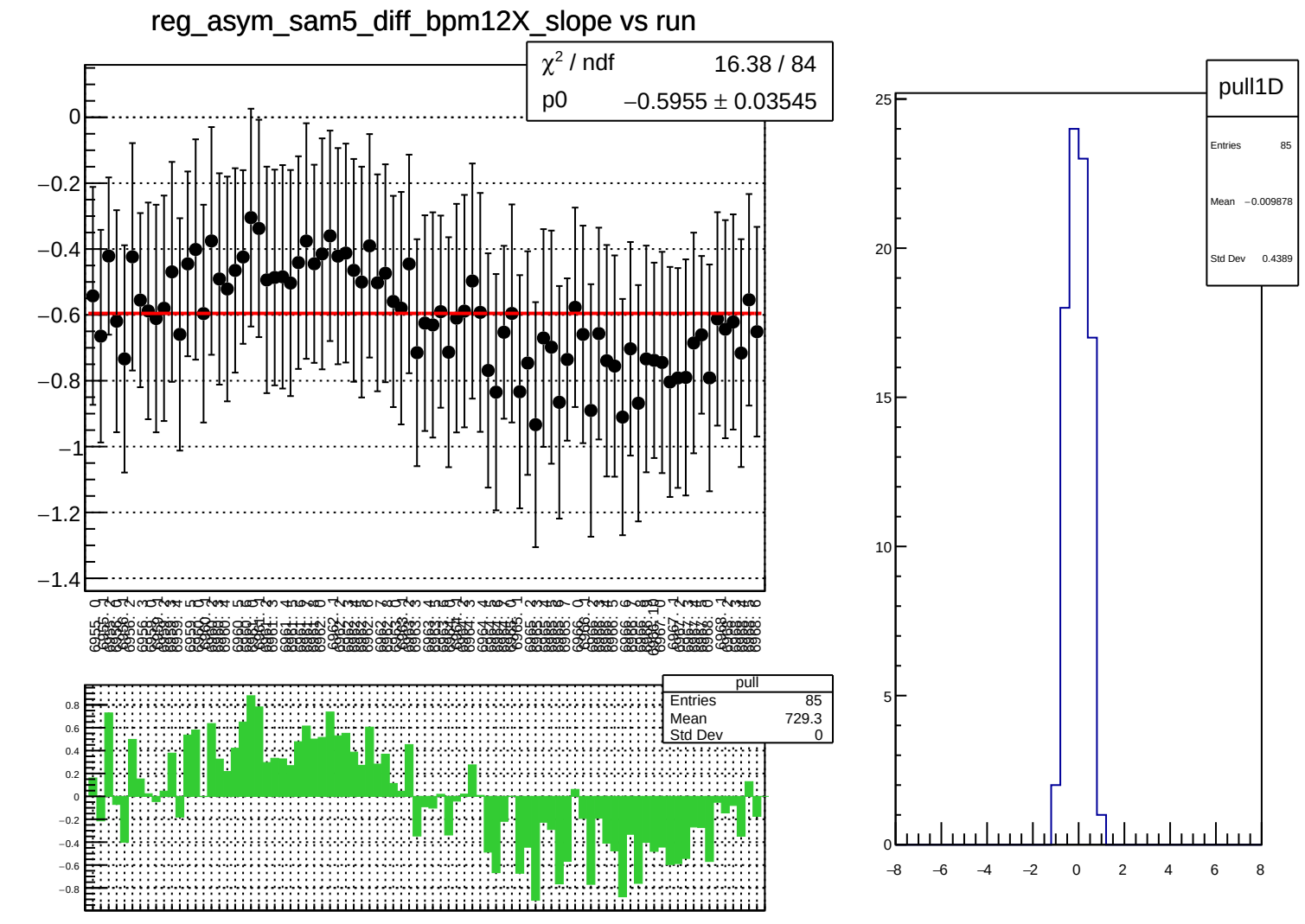

pull1D
Entries 85
Mean 0.00156
Std Dev 0.2194

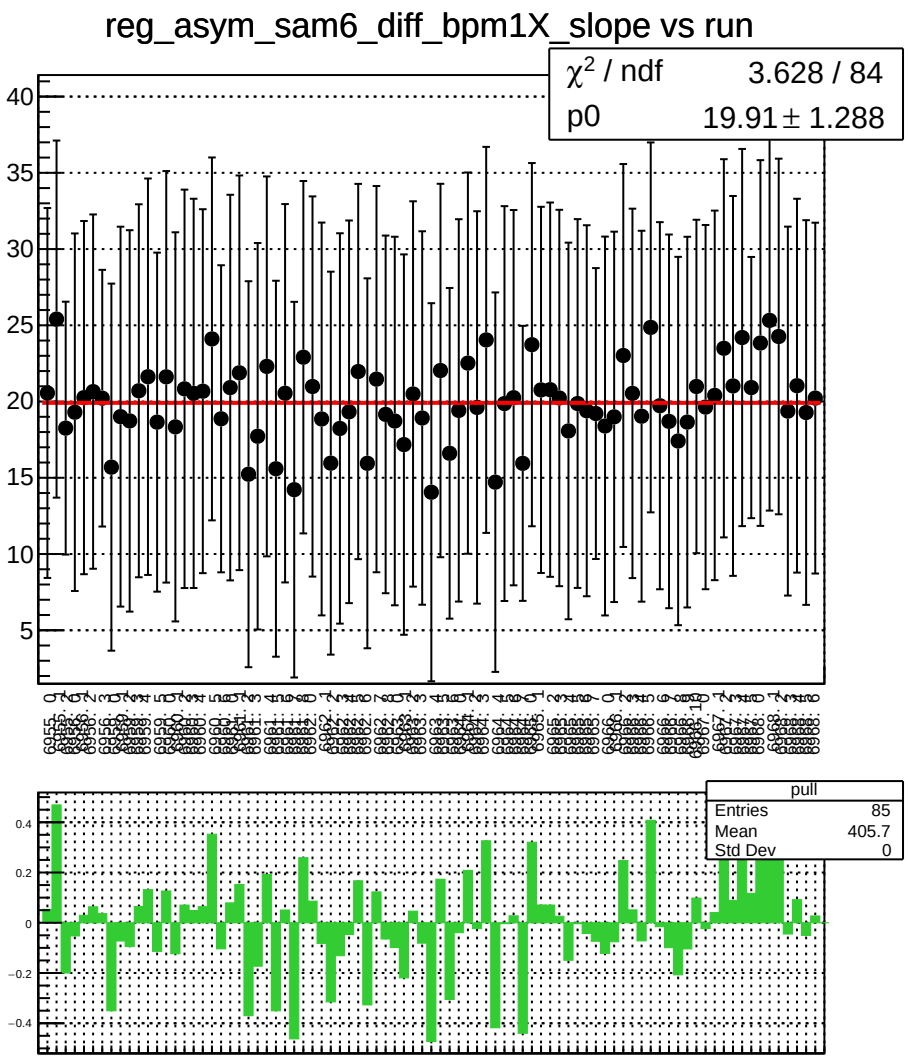

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 12.95 / 84
p0 58.93 ± 0.8212
pull
Entries 85
Mean 270.9
Std Dev 0

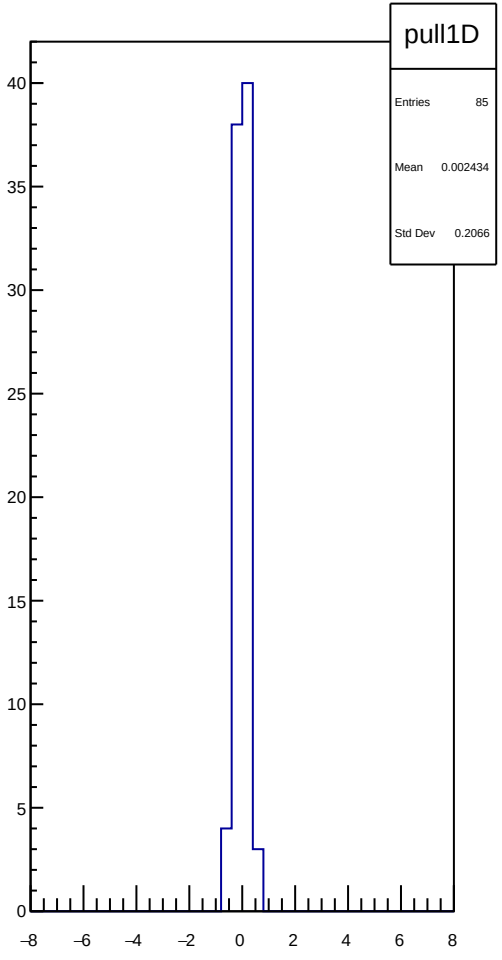

pull1D
Entries 85
Mean 0.02354
Std Dev 0.3896

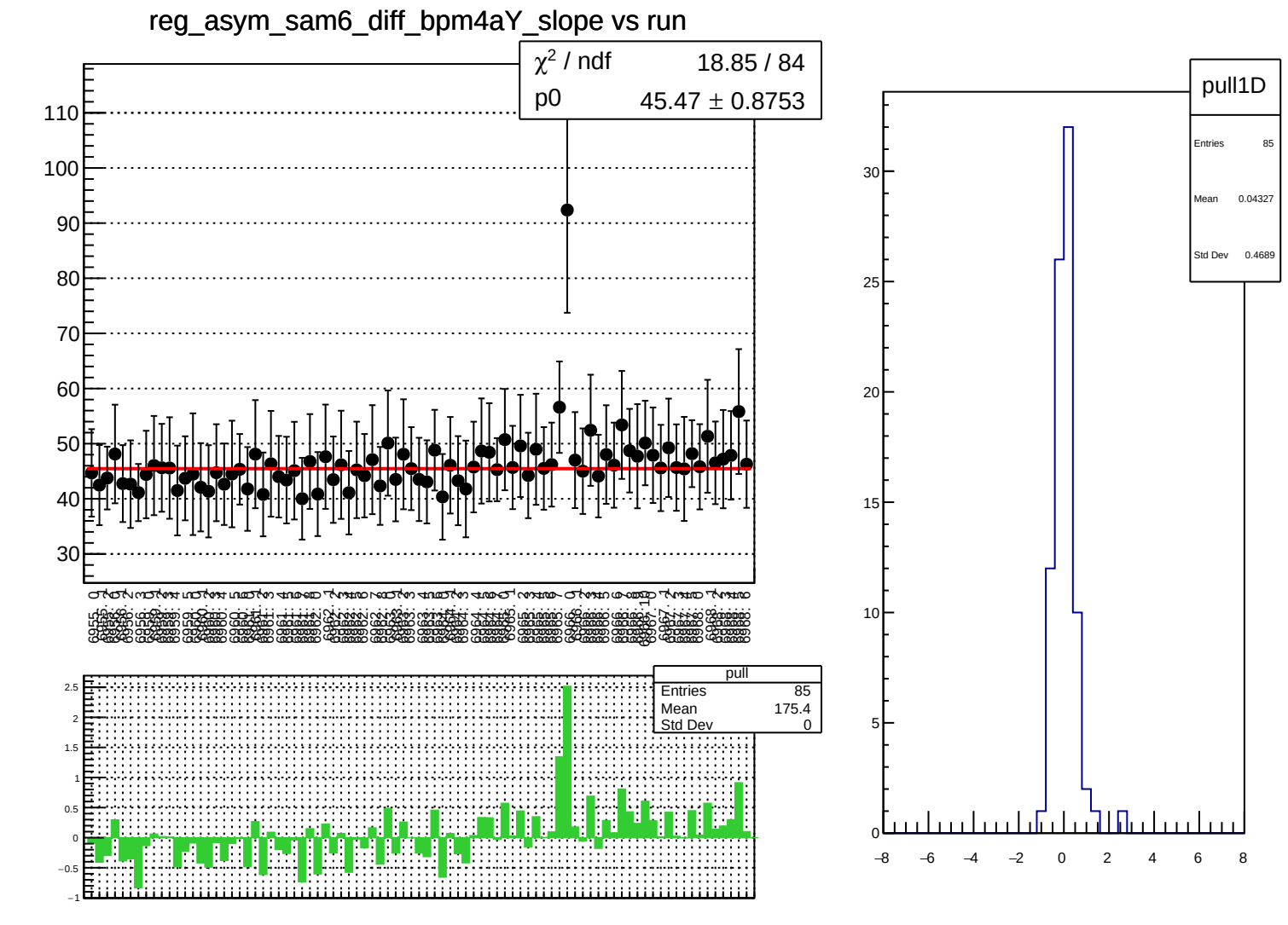

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 4.336 / 84
p0 11.6 ± 1.111
pull
Entries 85
Mean −811.1
Std Dev 0
pull1D
Entries 85
Mean −0.002009
Std Dev 0.2258

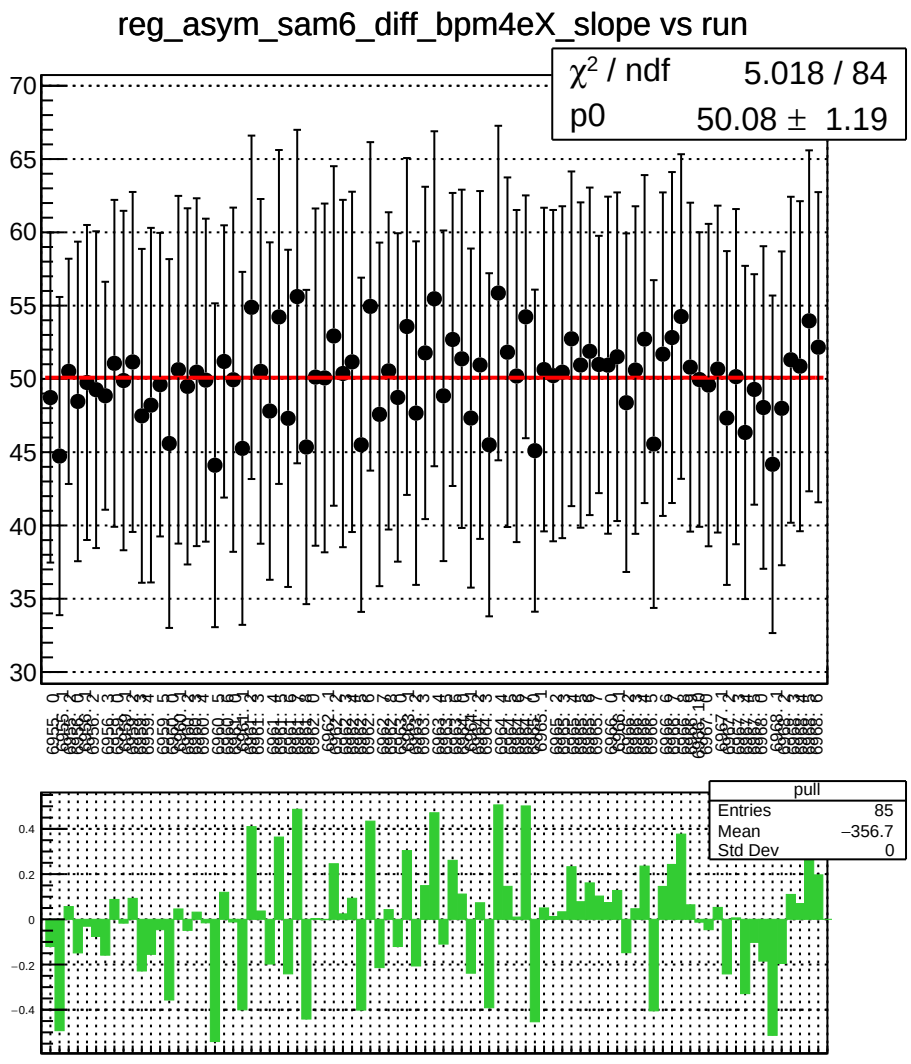

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 13.46 / 84
p0 86.18 ± 0.932
pull
Entries 85
Mean 385.2
Std Dev 0
pull1D
Entries 85
Mean −0.01651
Std Dev 0.3976

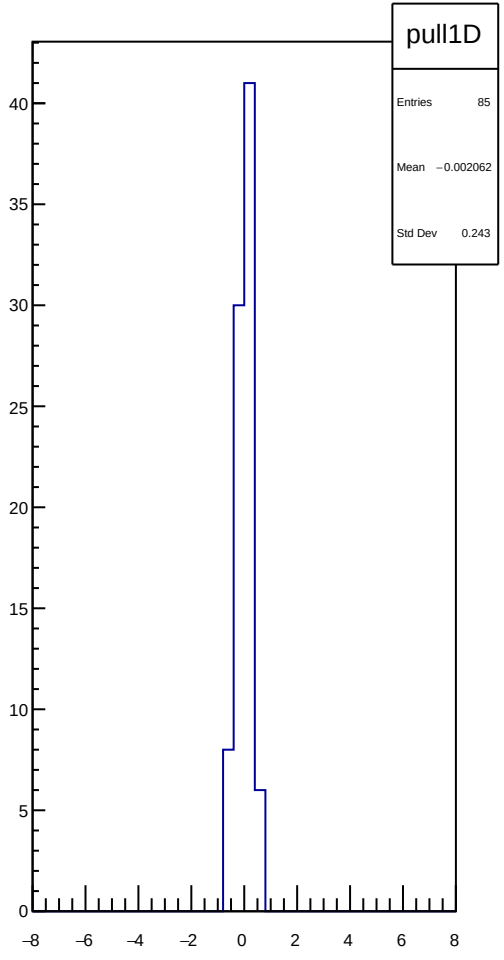

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 16.38 / 84
p0 −0.5955 ± 0.03545
pull
Entries 85
Mean 729.3
Std Dev 0
pull1D
Entries 85
Mean −0.009878
Std Dev 0.4389

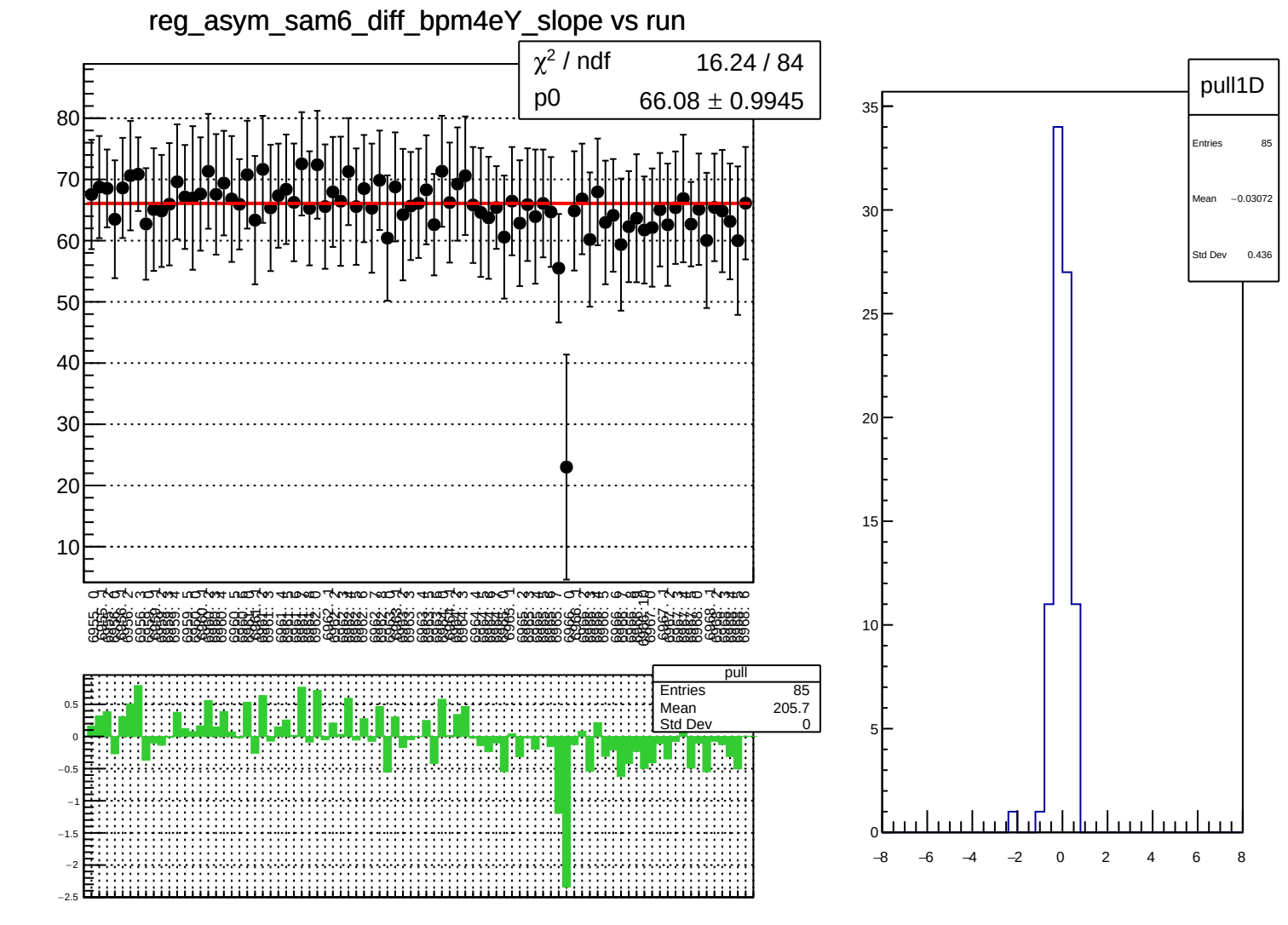

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 3.628 / 84
p0 19.91 ± 1.288
pull
Entries 85
Mean 405.7
Std Dev 0

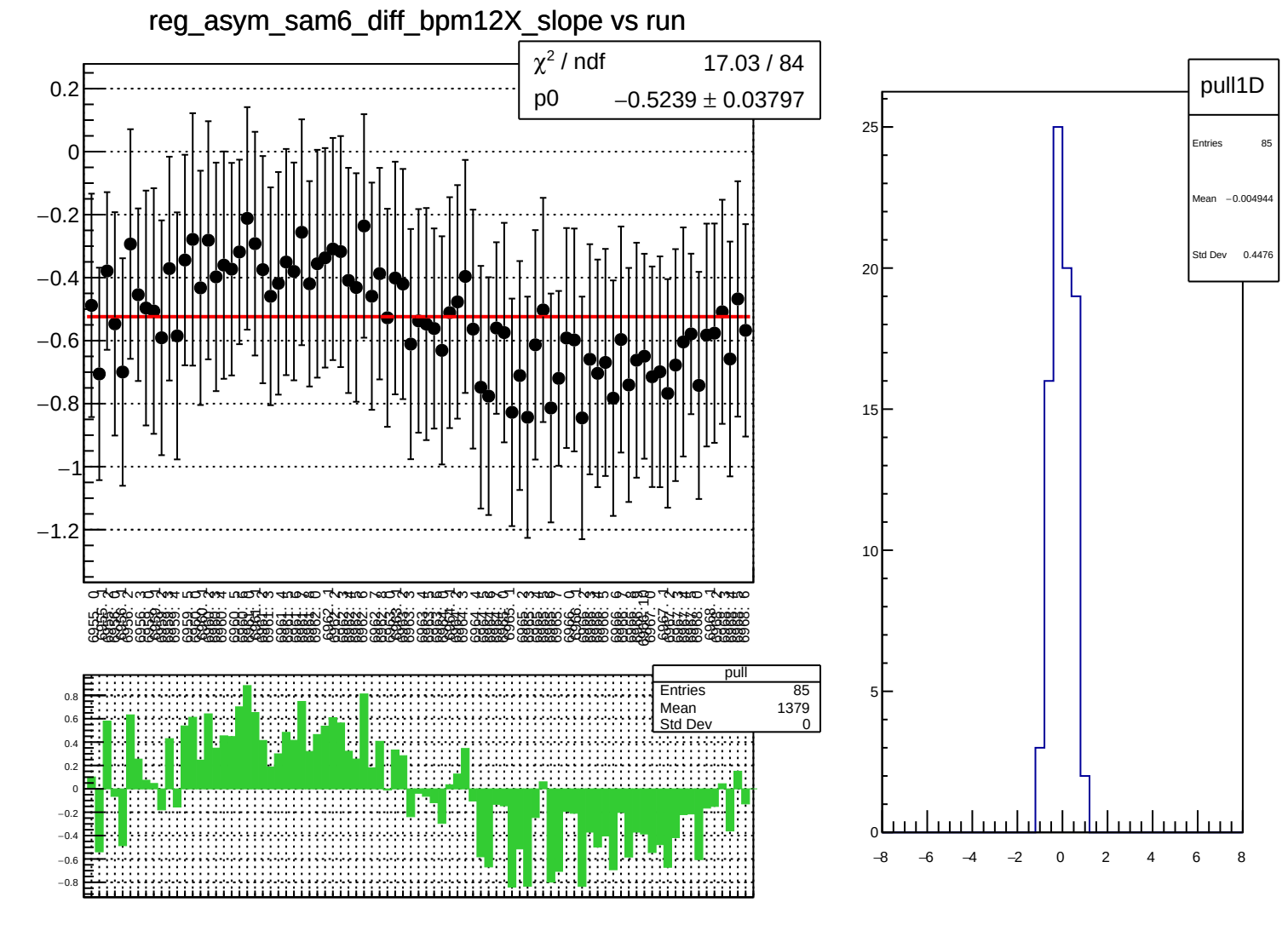

pull1D
Entries 85
Mean 0.002434
Std Dev 0.2066

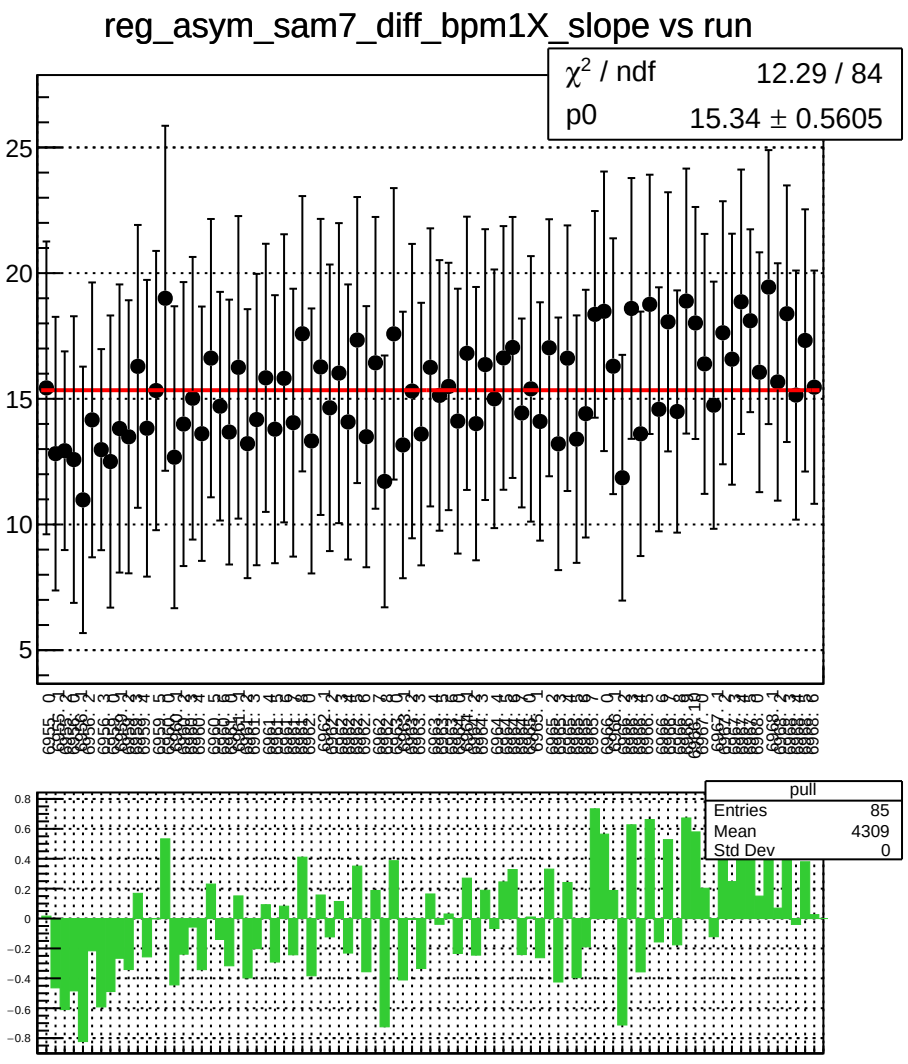

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 18.85 / 84
p0 45.47 ± 0.8753
pull
Entries 85
Mean 175.4
Std Dev 0
pull1D
Entries 85
Mean 0.04327
Std Dev 0.4689

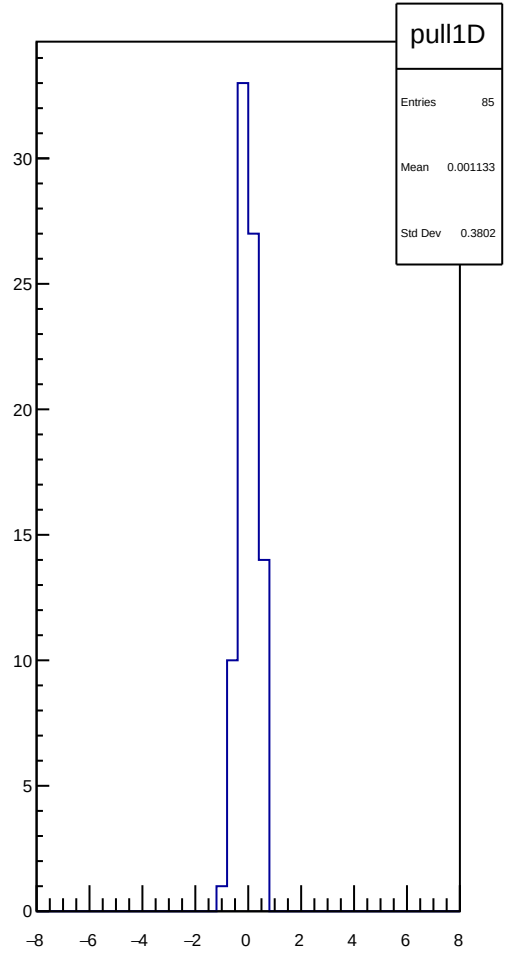

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 5.018 / 84
p0 50.08 ± 1.19
pull
Entries 85
Mean −356.7
Std Dev 0

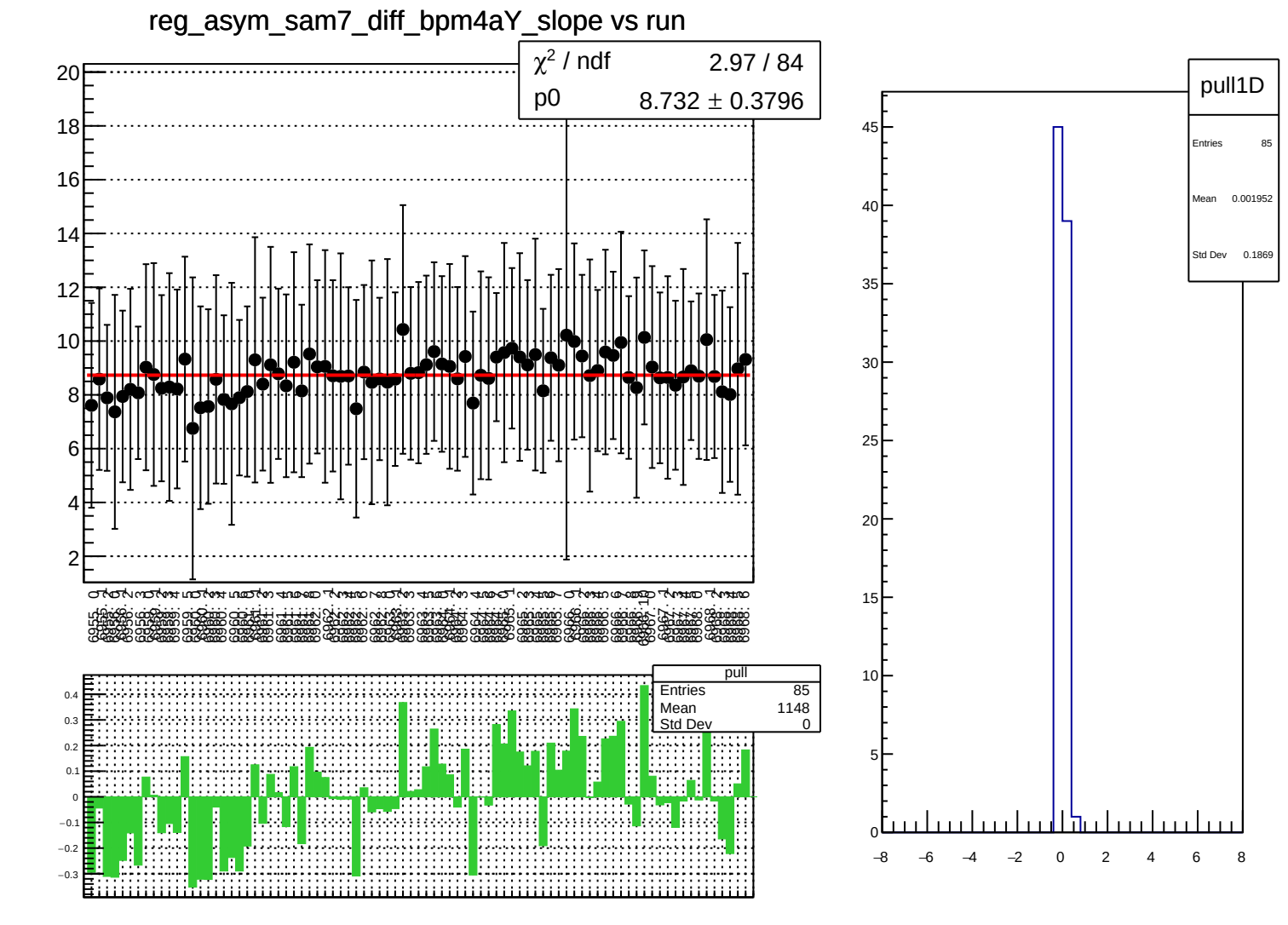

pull1D
Entries 85
Mean −0.002062
Std Dev 0.243

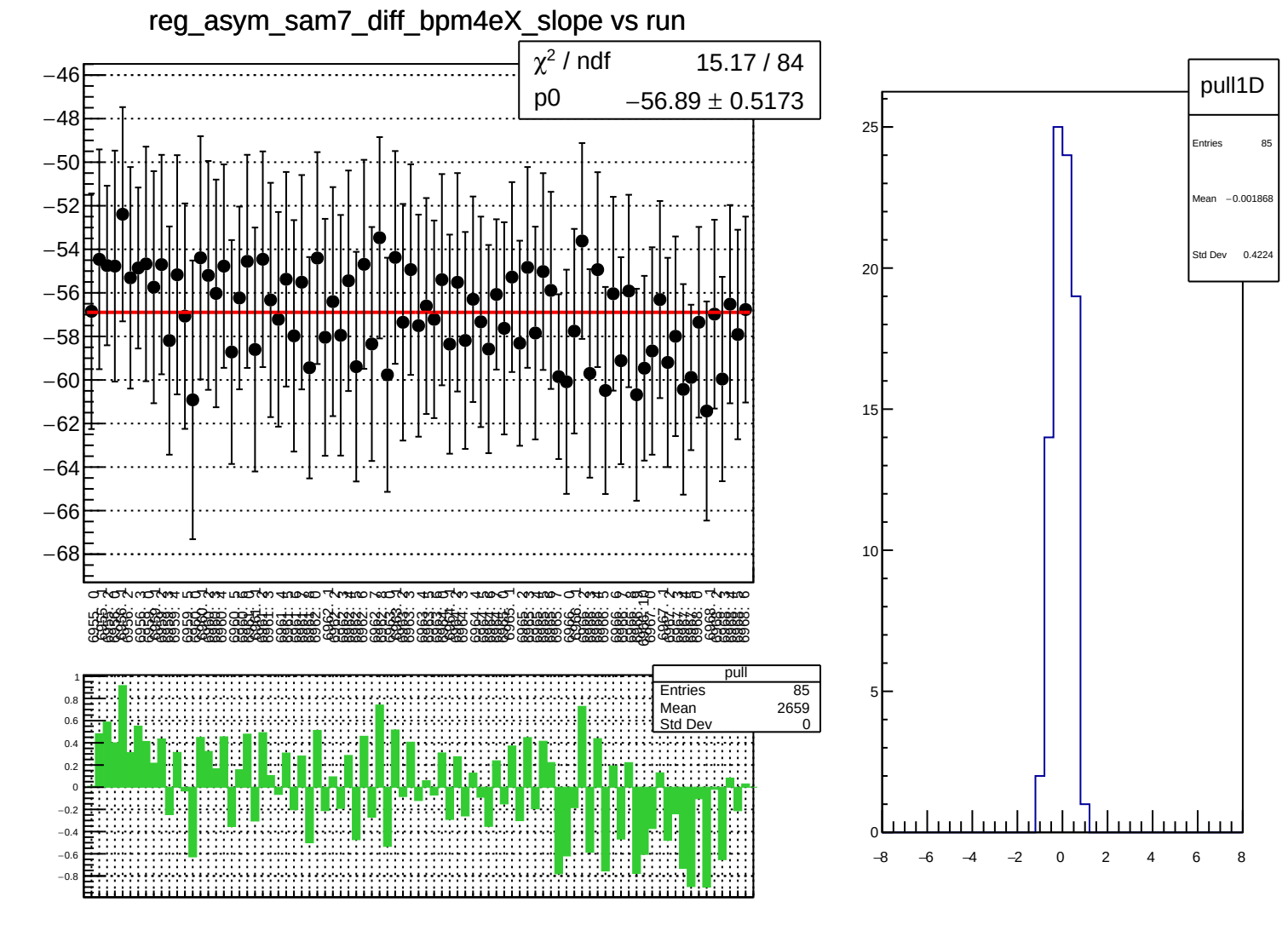

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 16.24 / 84
p0 66.08 ± 0.9945
pull
Entries 85
Mean 205.7
Std Dev 0
pull1D
Entries 85
Mean −0.03072
Std Dev 0.436

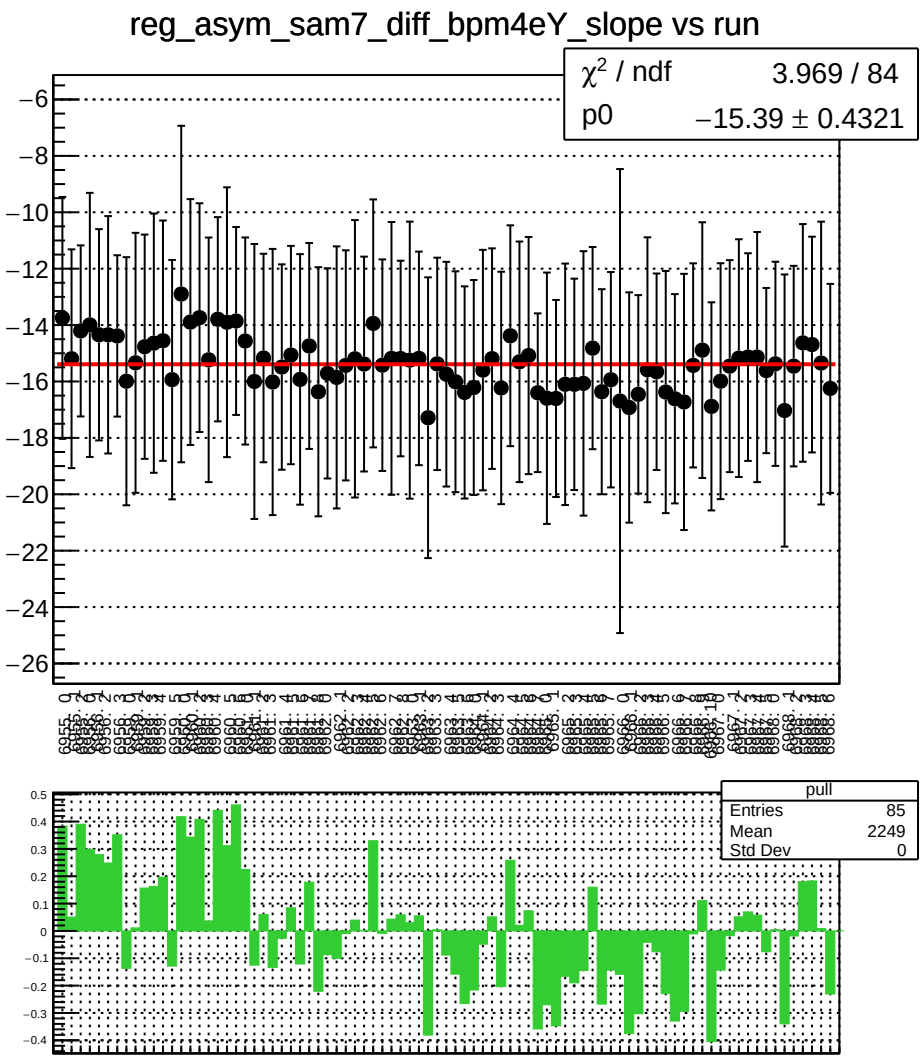

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 17.03 / 84
p0 −0.5239 ± 0.03797
pull
Entries 85
Mean 1379
Std Dev 0
pull1D
Entries 85
Mean −0.004944
Std Dev 0.4476

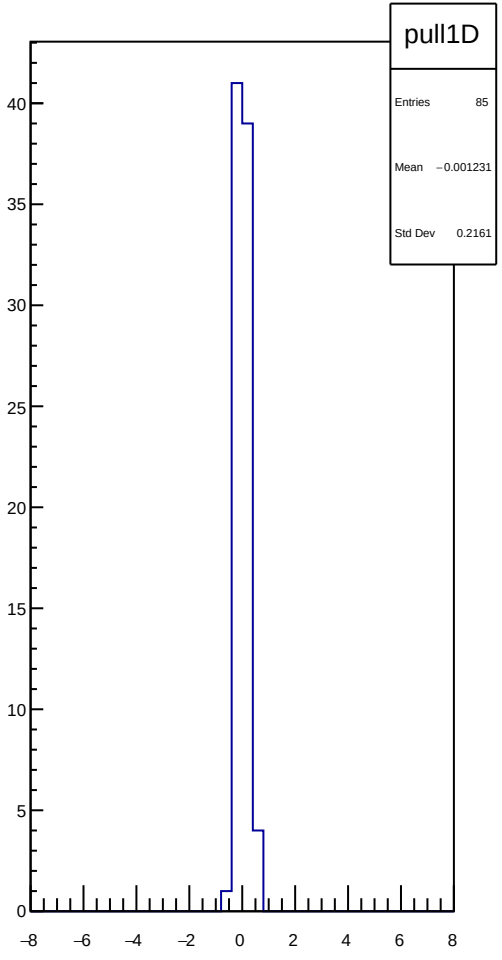

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 12.29 / 84
p0 15.34 ± 0.5605
pull
Entries 85
Mean 4309
Std Dev 0

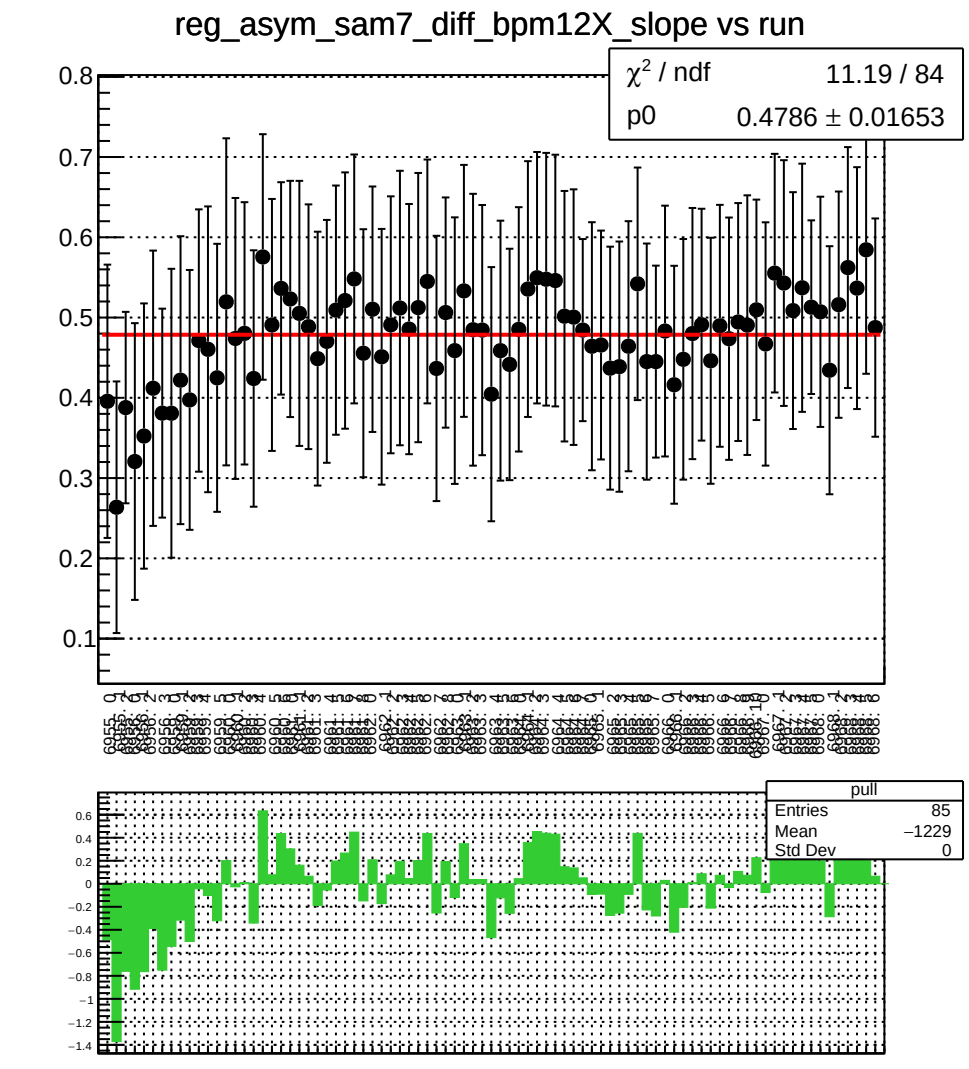

pull1D
Entries 85
Mean 0.001133
Std Dev 0.3802

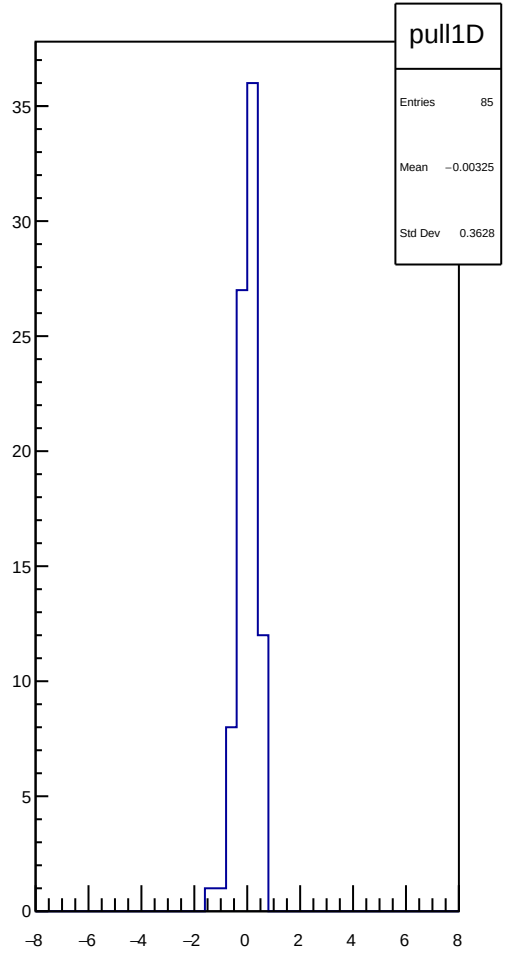

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 2.97 / 84
p0 8.732 ± 0.3796
pull
Entries 85
Mean 1148
Std Dev 0
pull1D
Entries 85
Mean 0.001952
Std Dev 0.1869

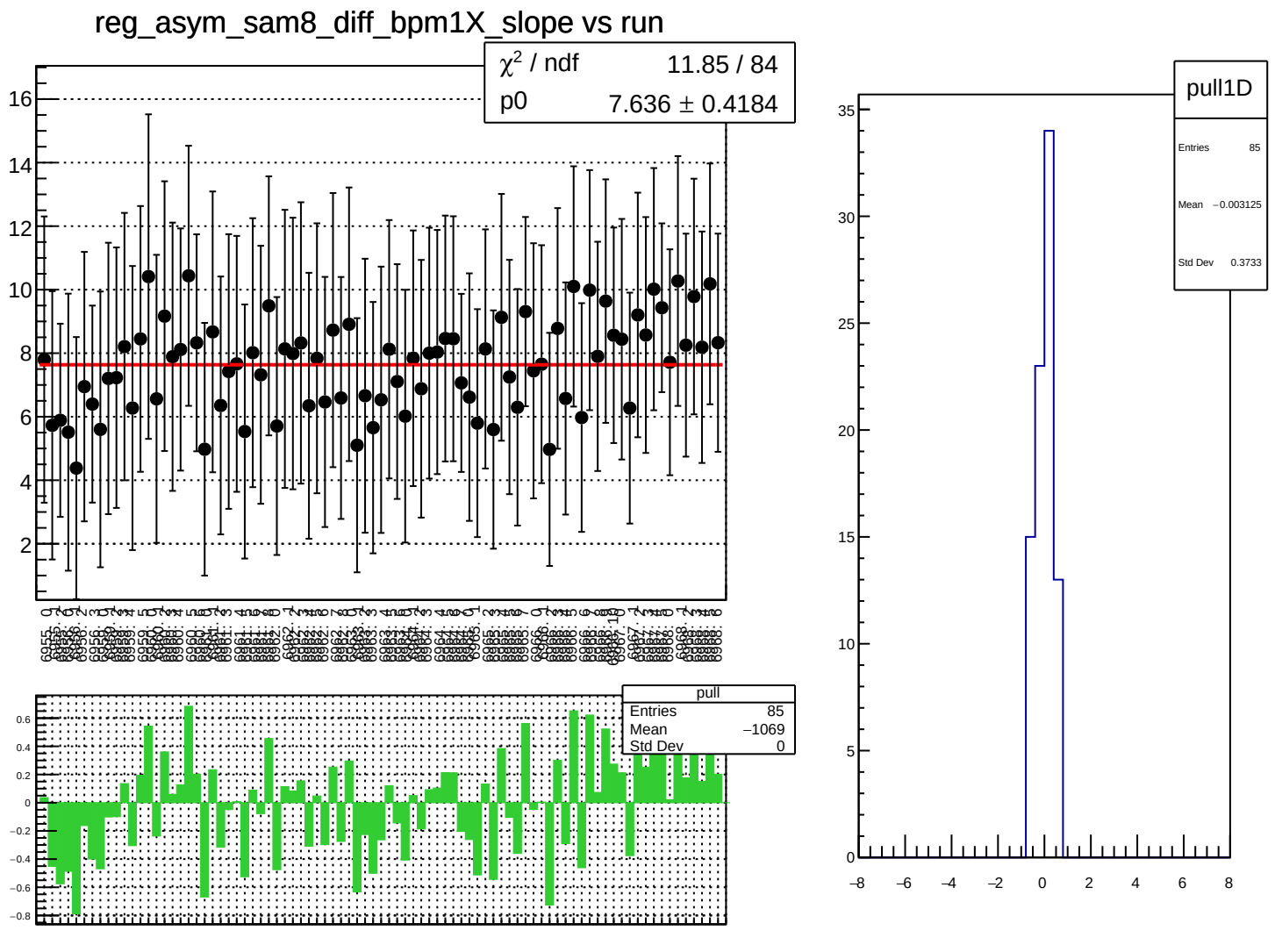

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 15.17 / 84
p0 −56.89 ± 0.5173
pull
Entries 85
Mean 2659
Std Dev 0
pull1D
Entries 85
Mean −0.001868
Std Dev 0.4224

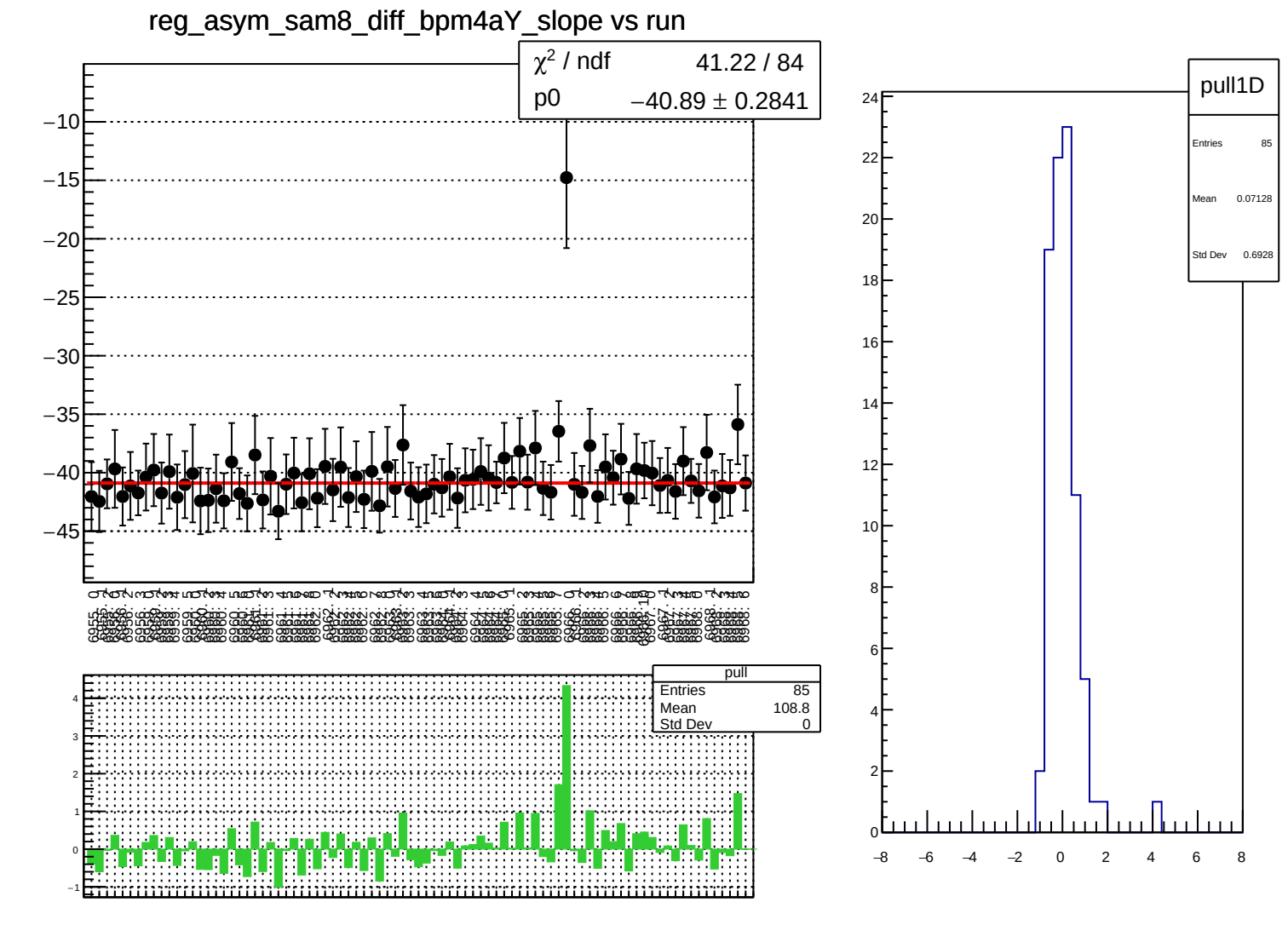

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 3.969 / 84
p0 −15.39 ± 0.4321
pull
Entries 85
Mean 2249
Std Dev 0

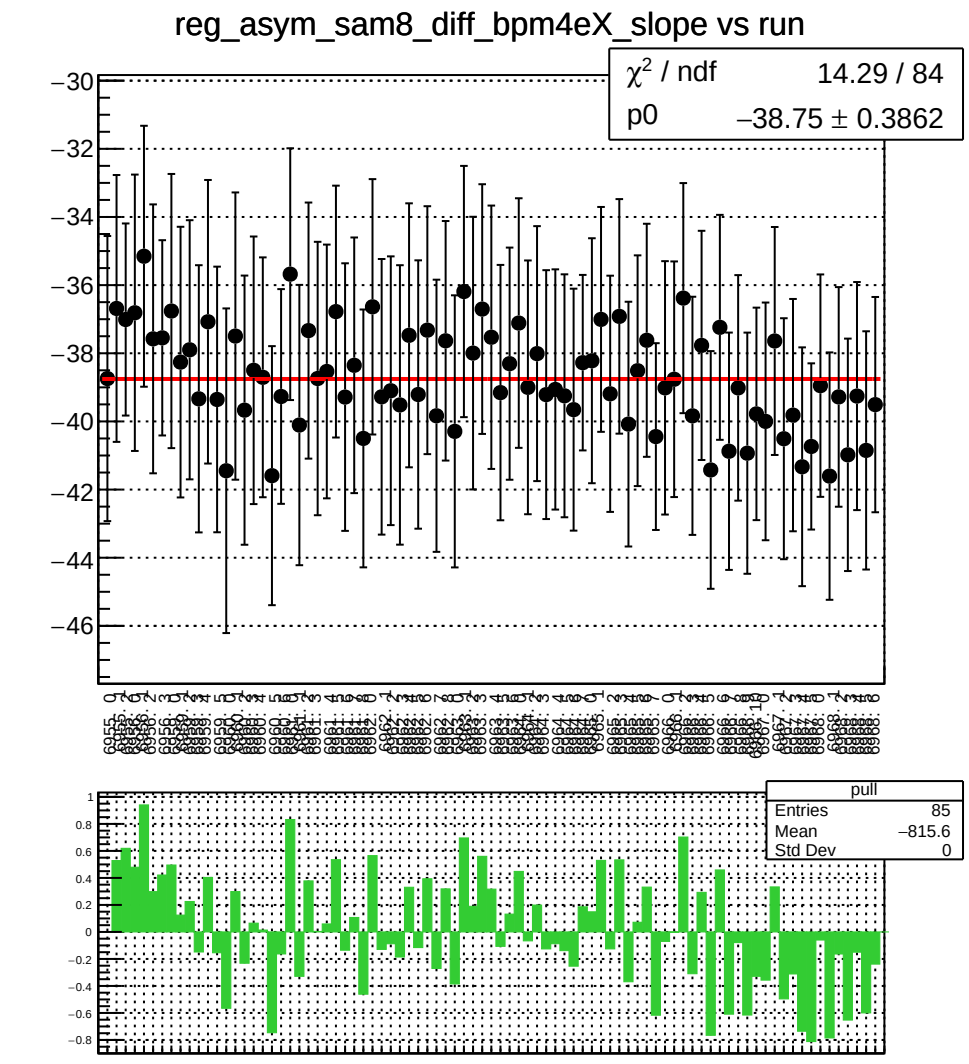

pull1D
Entries 85
Mean −0.001231
Std Dev 0.2161

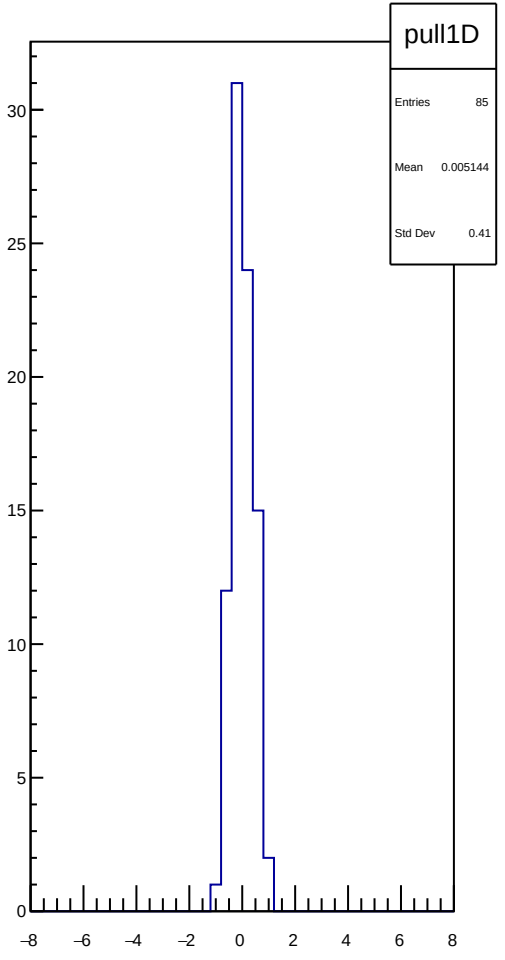

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 11.19 / 84
p0 0.4786 ± 0.01653
pull
Entries 85
Mean −1229
Std Dev 0

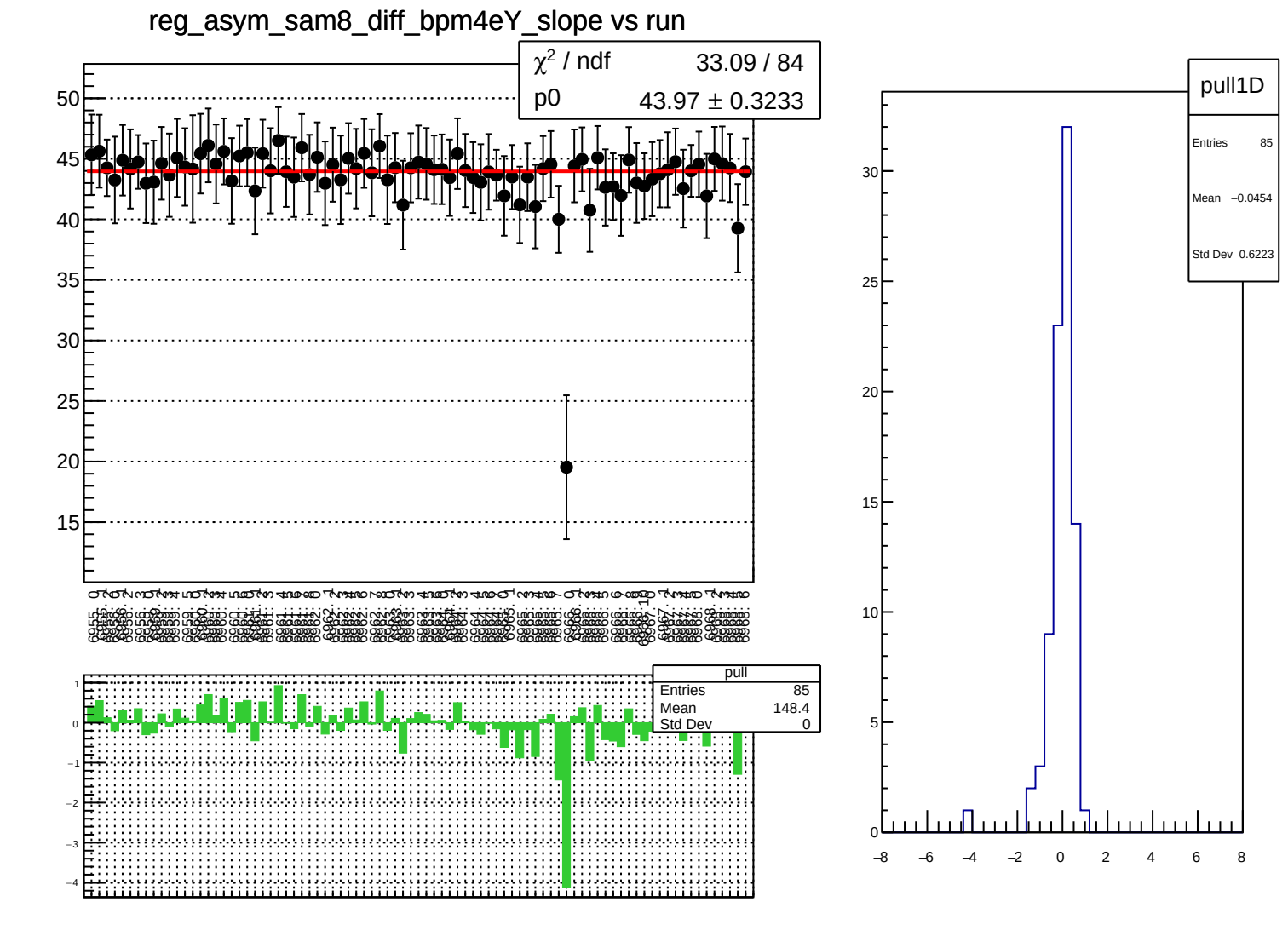

pull1D
Entries 85
Mean −0.00325
Std Dev 0.3628

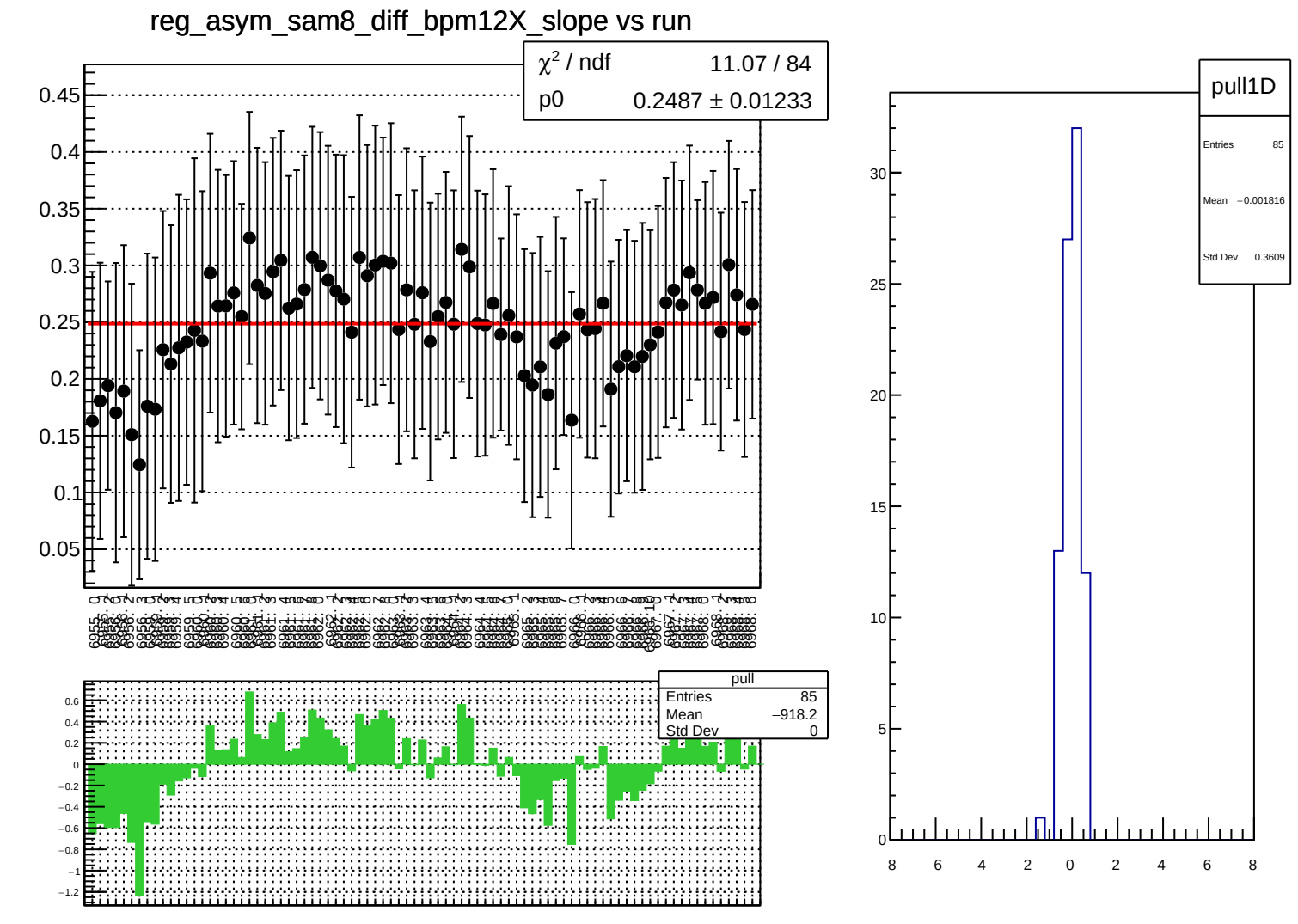

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 11.85 / 84
p0 7.636 ± 0.4184
pull
Entries 85
Mean −1069
Std Dev 0
pull1D
Entries 85
Mean −0.003125
Std Dev 0.3733

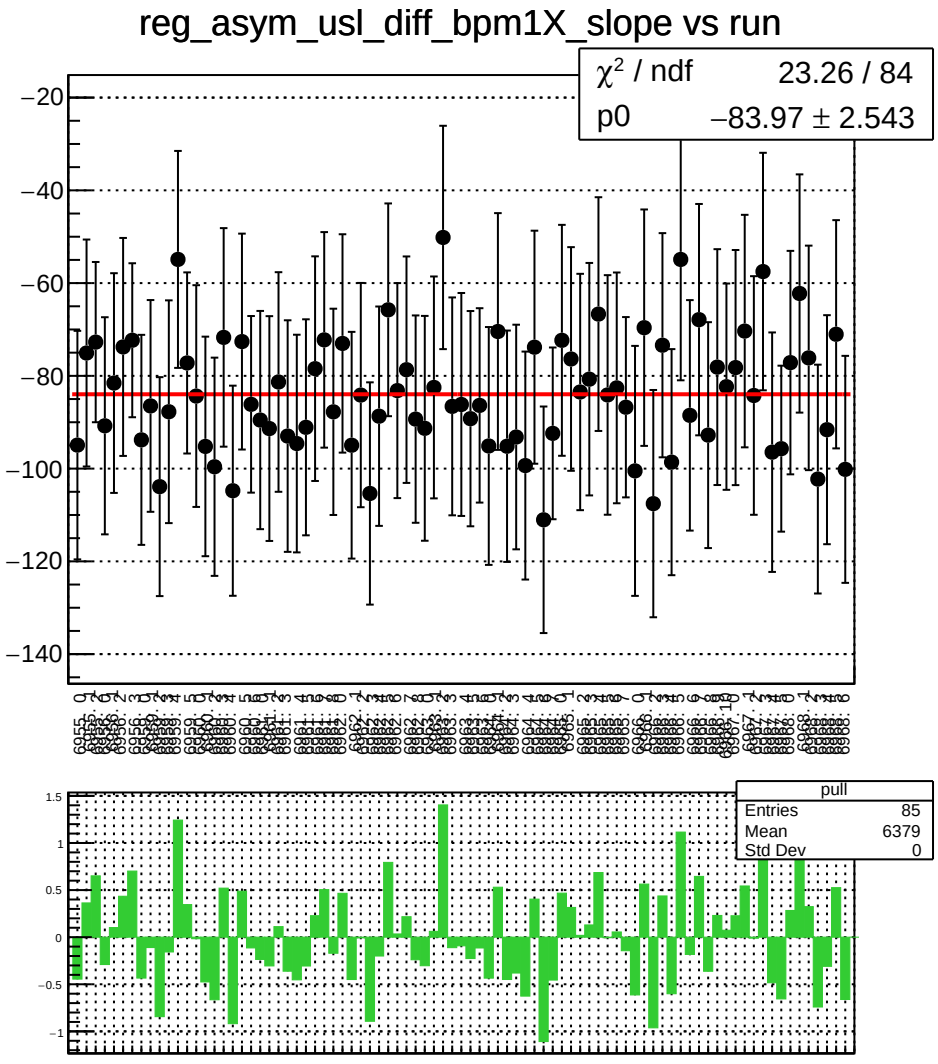

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 41.22 / 84
p0 −40.89 ± 0.2841
pull
Entries 85
Mean 108.8
Std Dev 0
pull1D
Entries 85
Mean 0.07128
Std Dev 0.6928

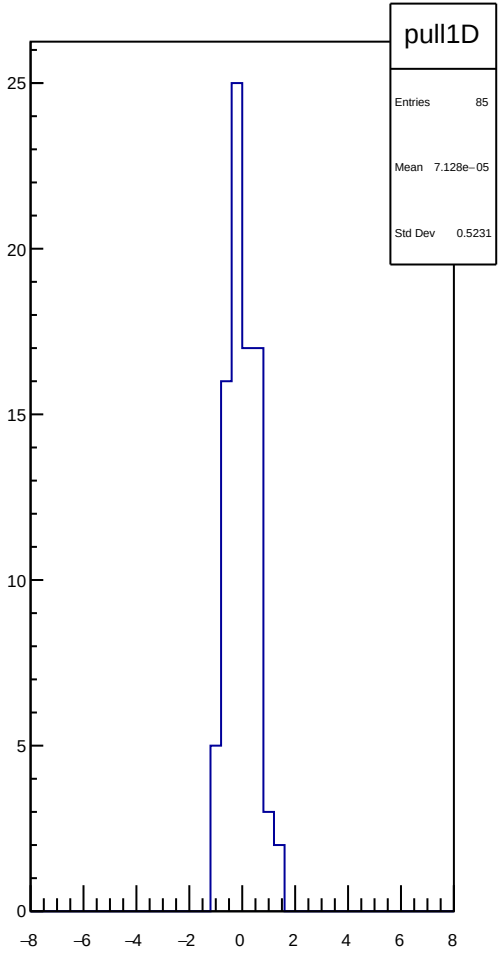

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 14.29 / 84
p0 −38.75 ± 0.3862
pull
Entries 85
Mean −815.6
Std Dev 0

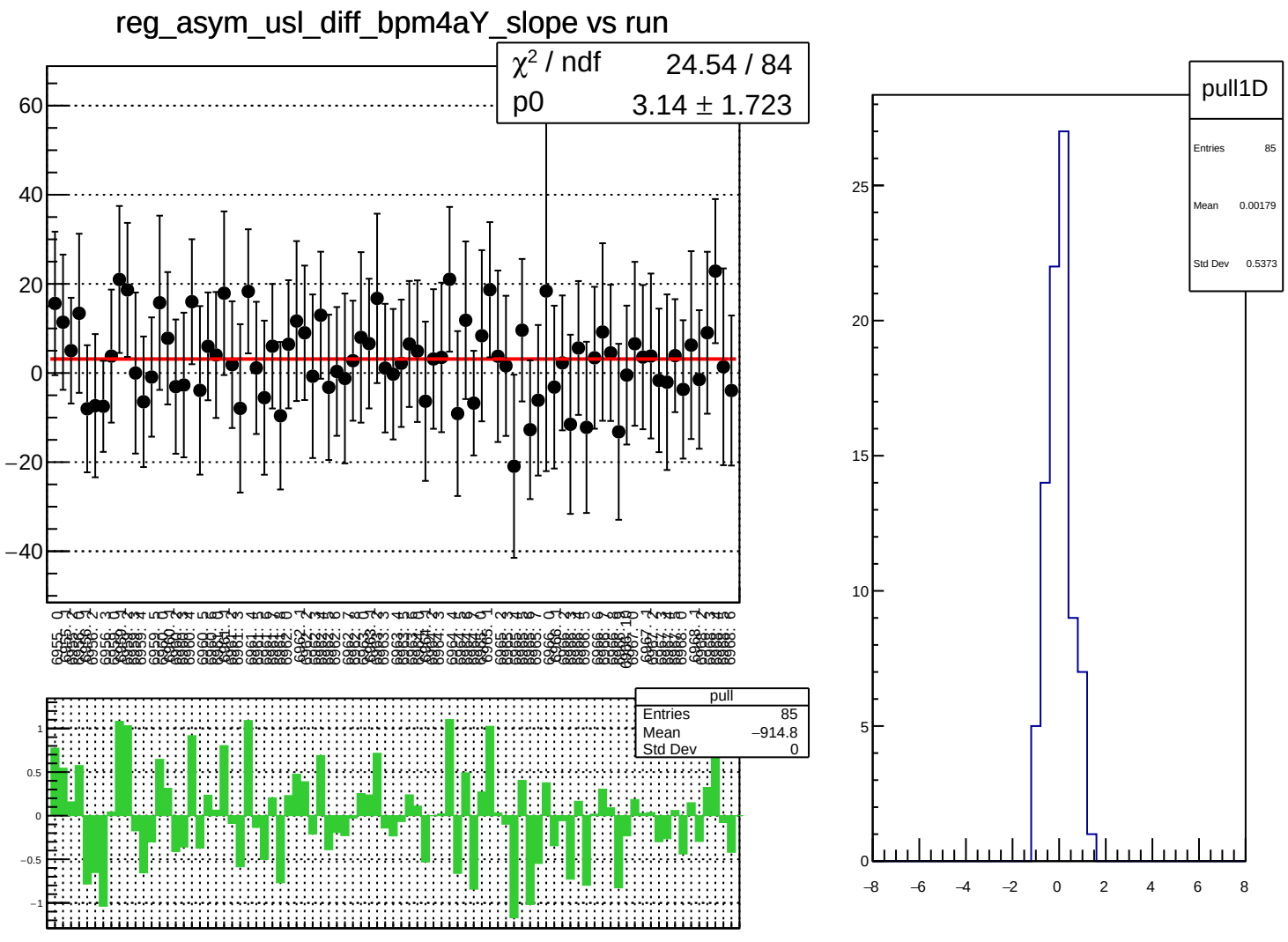

pull1D
Entries 85
Mean 0.005144
Std Dev 0.41

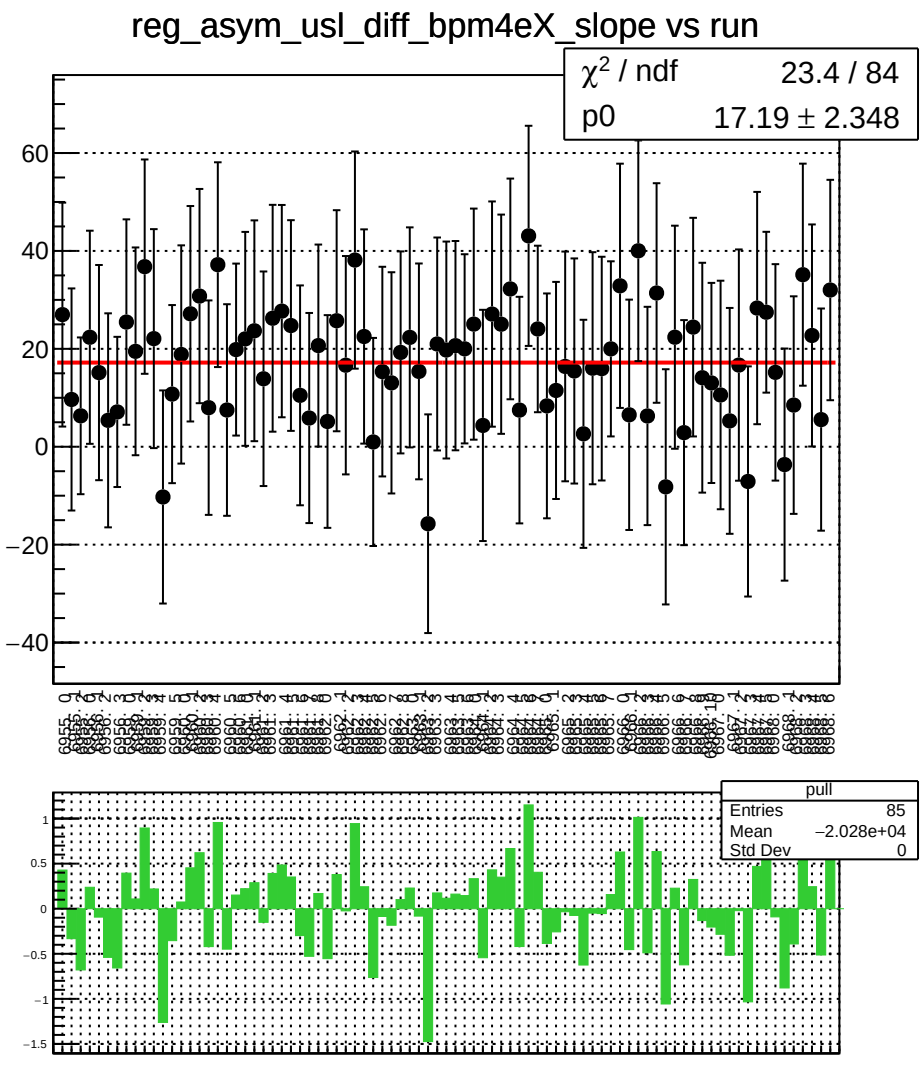

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 33.09 / 84
p0 43.97 ± 0.3233
pull
Entries 85
Mean 148.4
Std Dev 0
pull1D
Entries 85
Mean −0.0454
Std Dev 0.6223

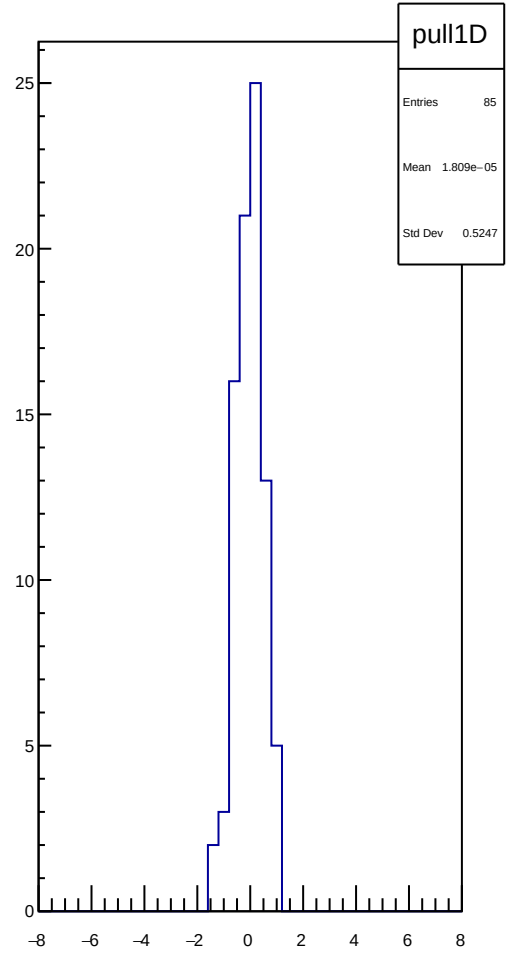

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 11.07 / 84
p0 0.2487 ± 0.01233
pull
Entries 85
Mean −918.2
Std Dev 0
pull1D
Entries 85
Mean −0.001816
Std Dev 0.3609

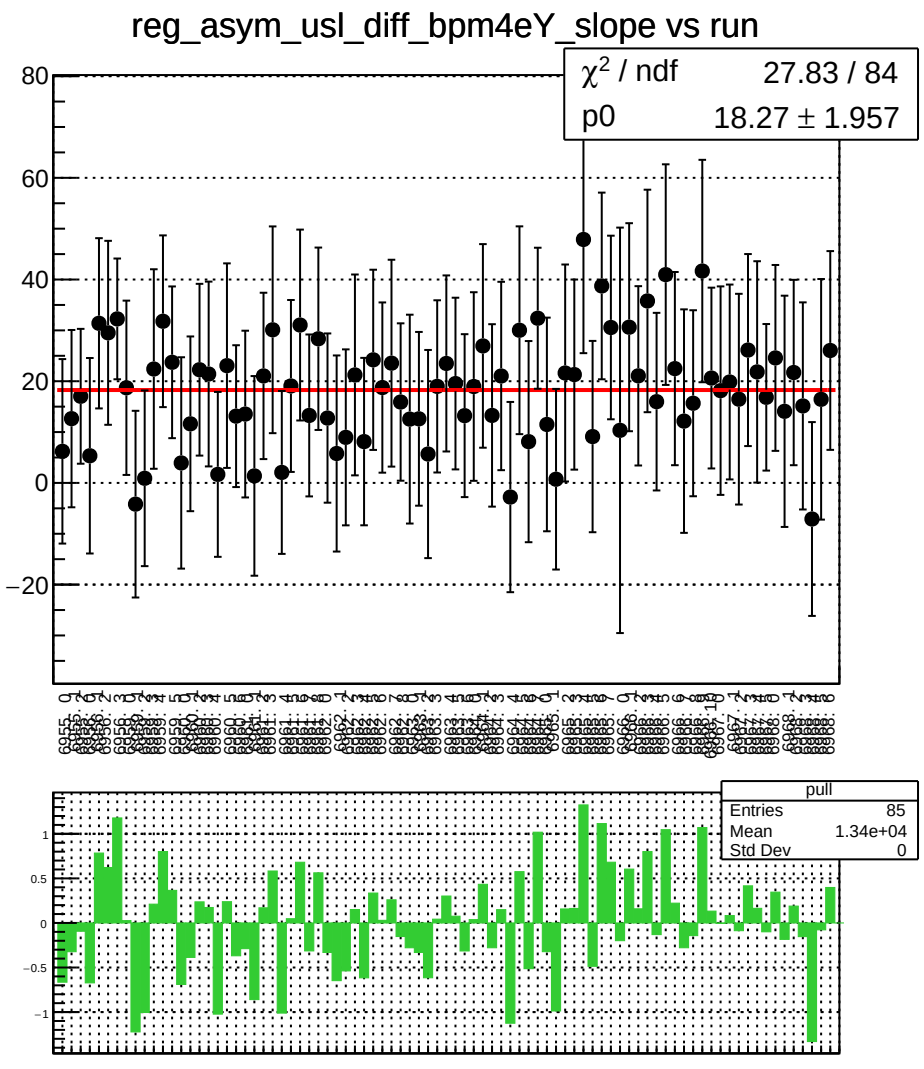

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 23.26 / 84
p0 −83.97 ± 2.543
pull
Entries 85
Mean 6379
Std Dev 0

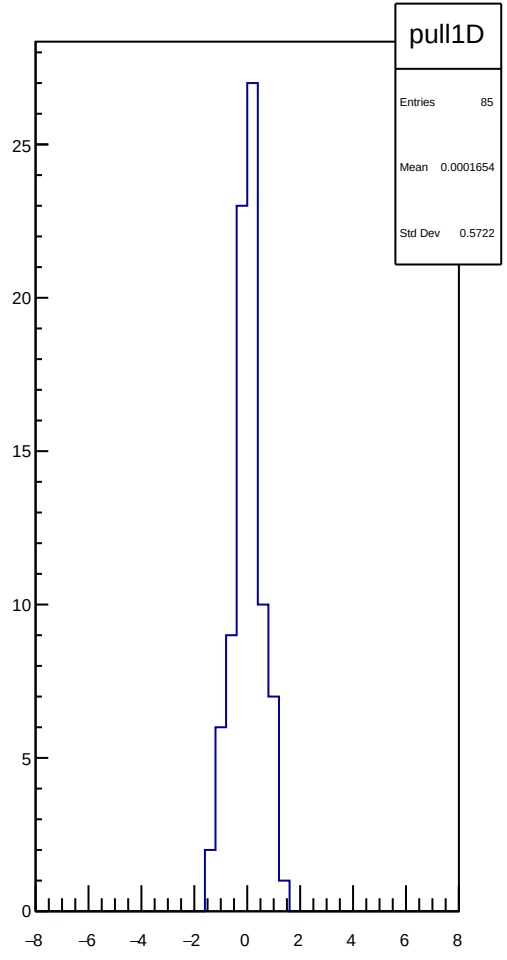

pull1D
Entries 85
Mean 7.128e−05
Std Dev 0.5231

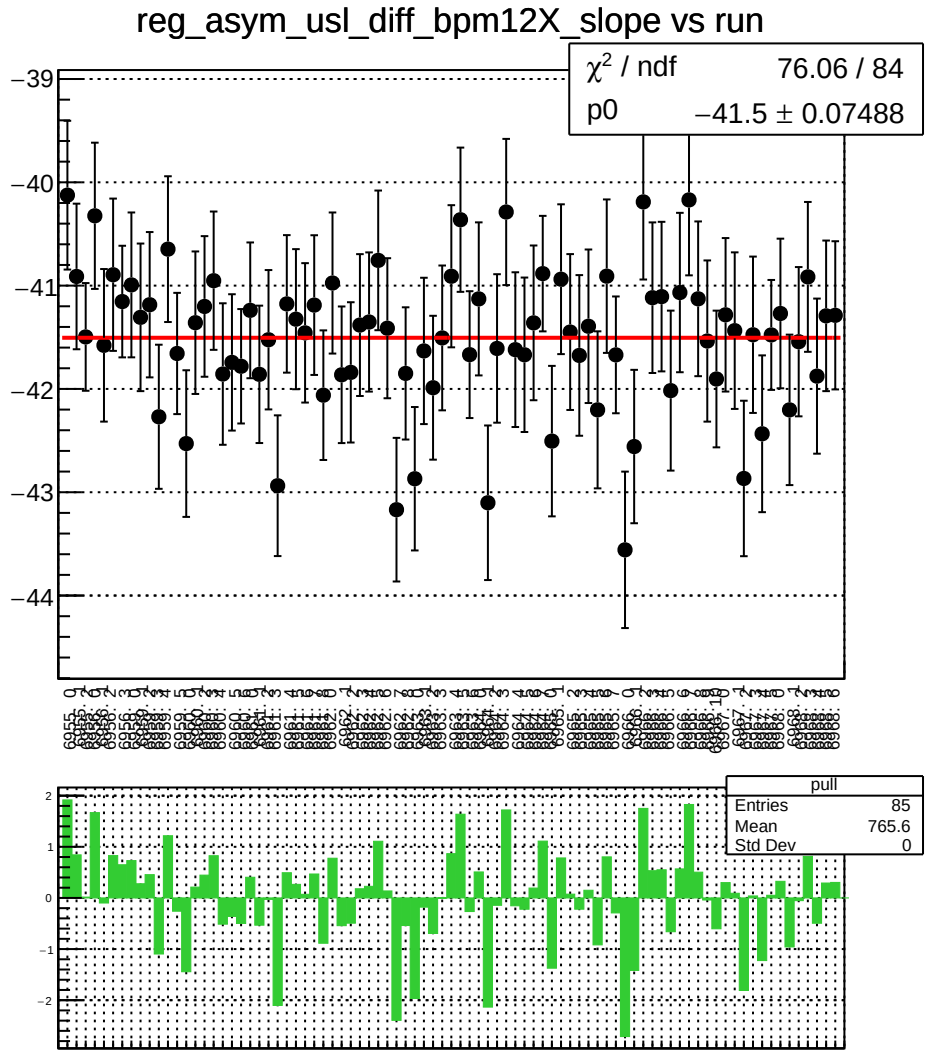

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 24.54 / 84
p0 3.14 ± 1.723
pull
Entries 85
Mean −914.8
Std Dev 0
pull1D
Entries 85
Mean 0.00179
Std Dev 0.5373

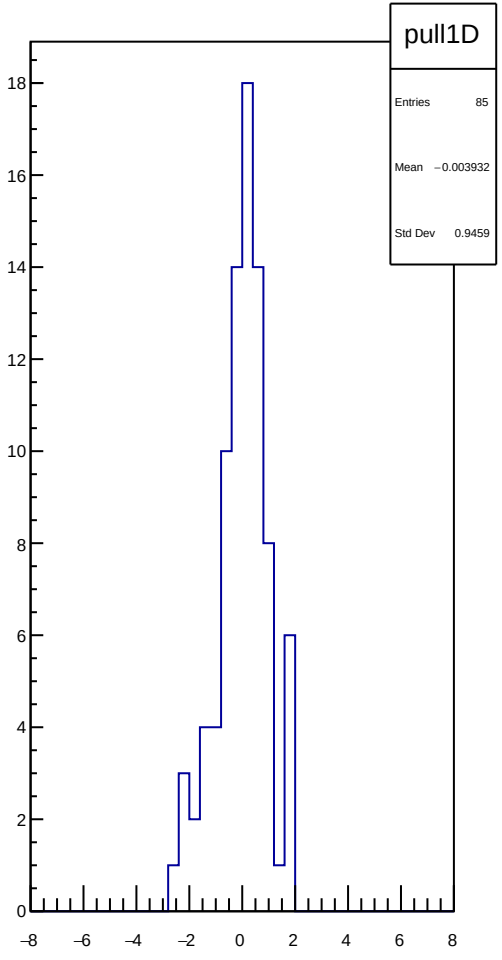

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 23.4 / 84
p0 17.19 ± 2.348
pull
Entries 85
Mean −2.028e+04
Std Dev 0

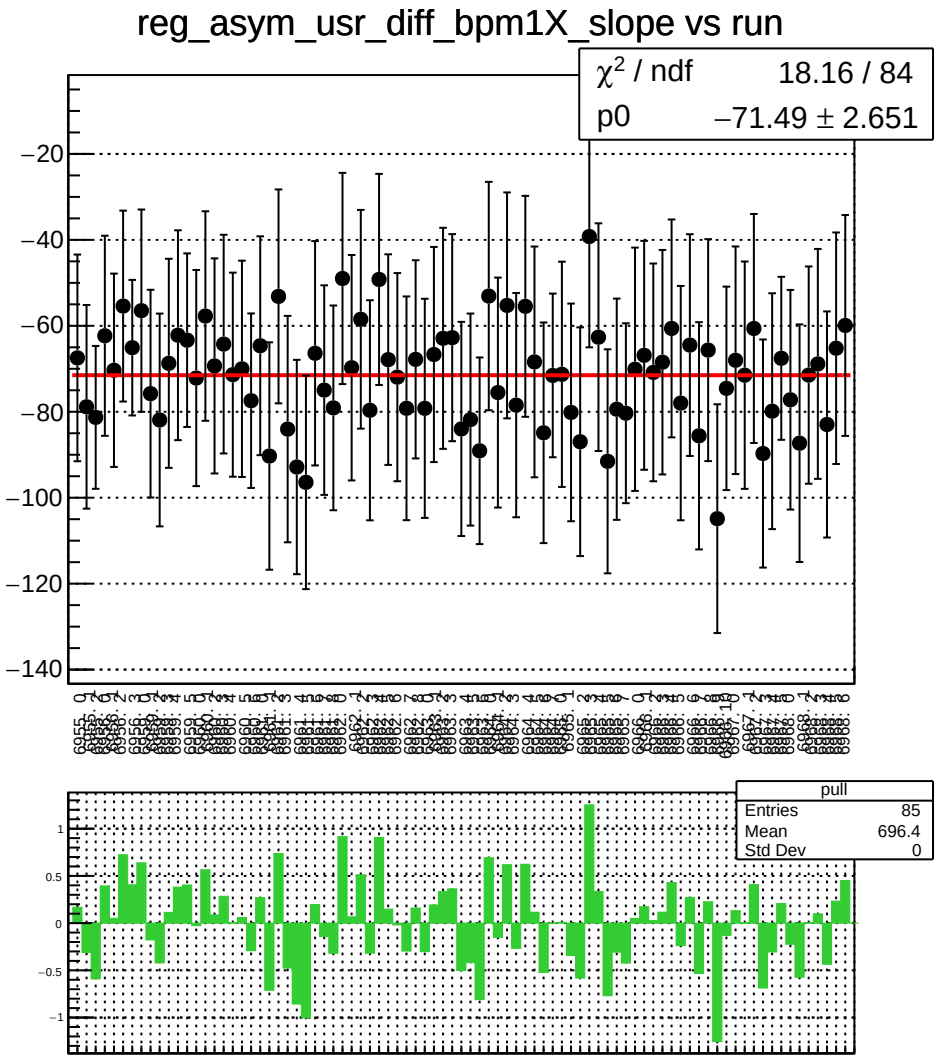

pull1D
Entries 85
Mean 1.809e−05
Std Dev 0.5247

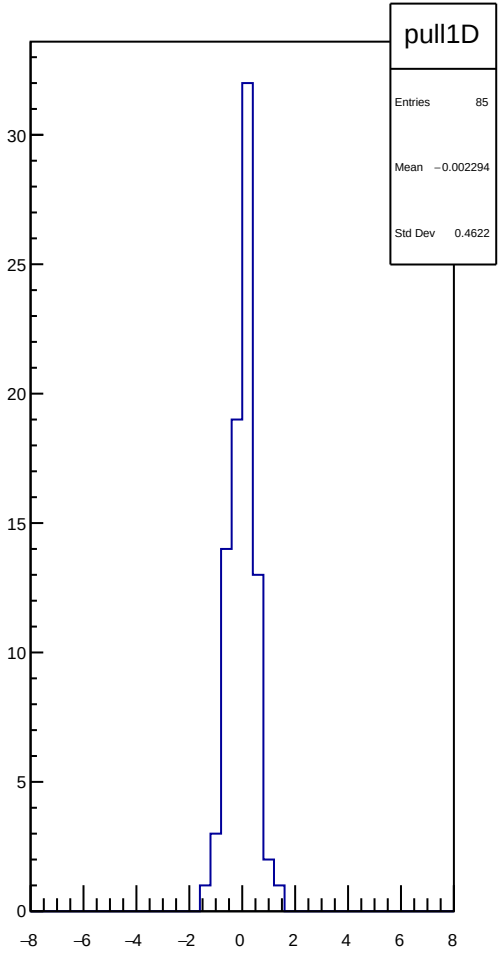

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 27.83 / 84
p0 18.27 ± 1.957
pull
Entries 85
Mean 1.34e+04
Std Dev 0

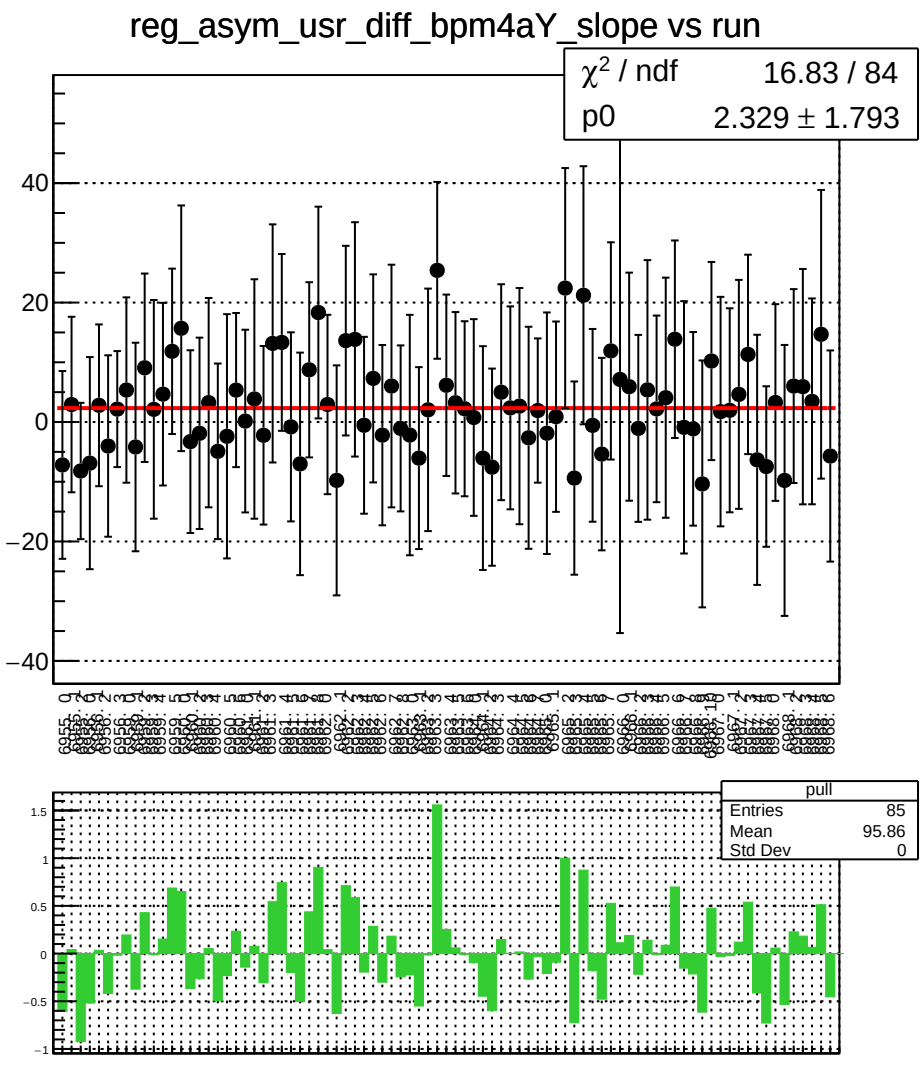

pull1D
Entries 85
Mean 0.0001654
Std Dev 0.5722

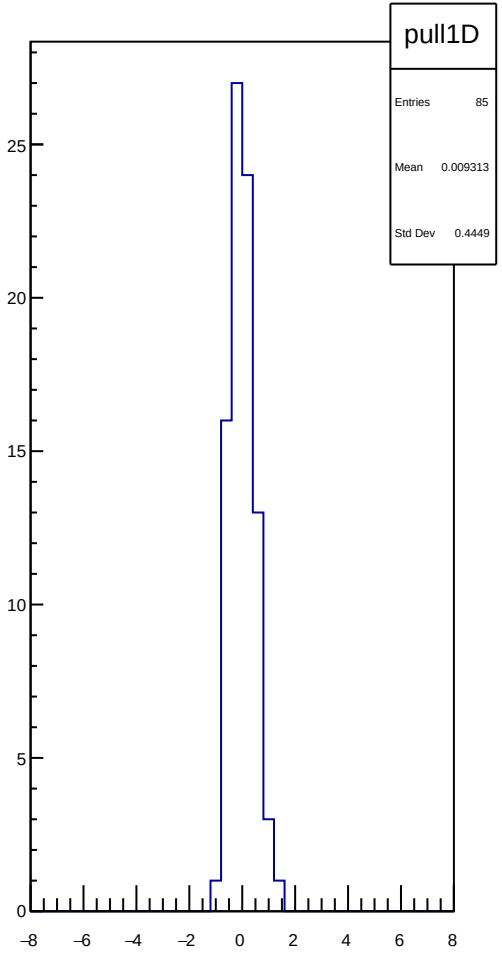

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 76.06 / 84
p0 −41.5 ± 0.07488
pull
Entries 85
Mean 765.6
Std Dev 0

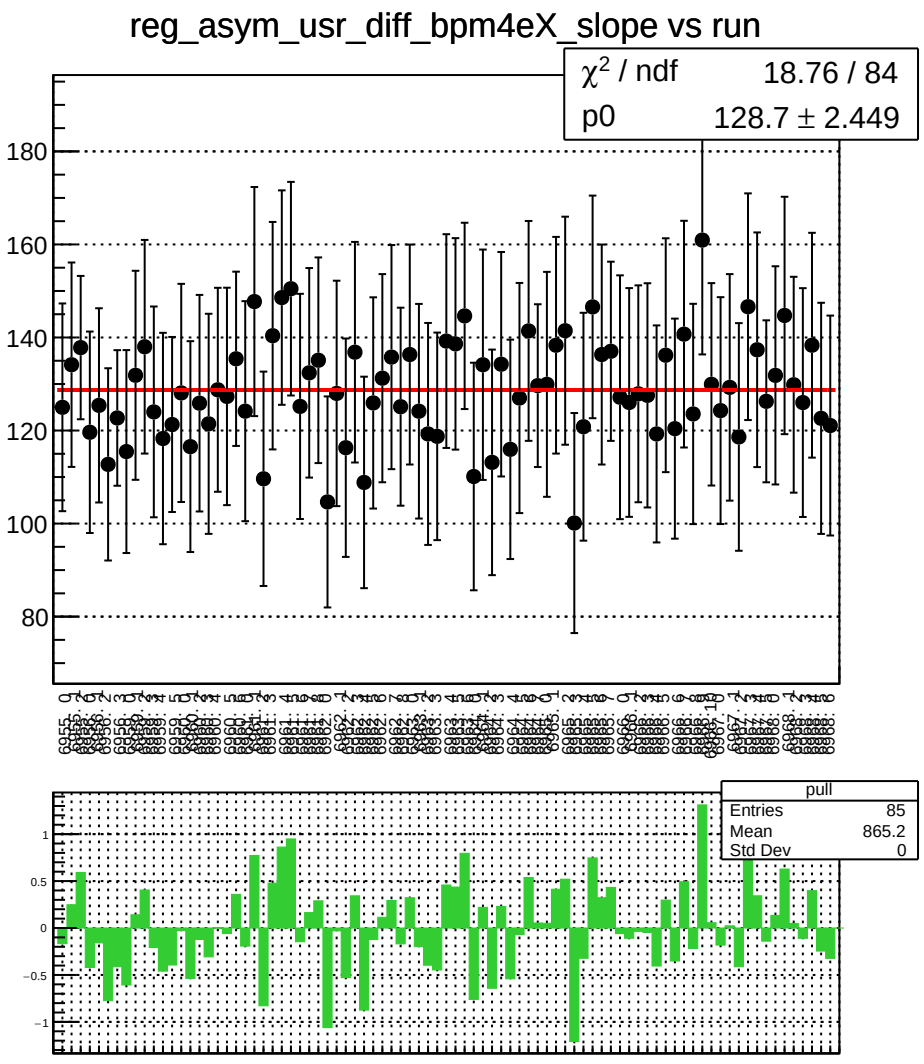

pull1D
Entries 85
Mean −0.003932
Std Dev 0.9459

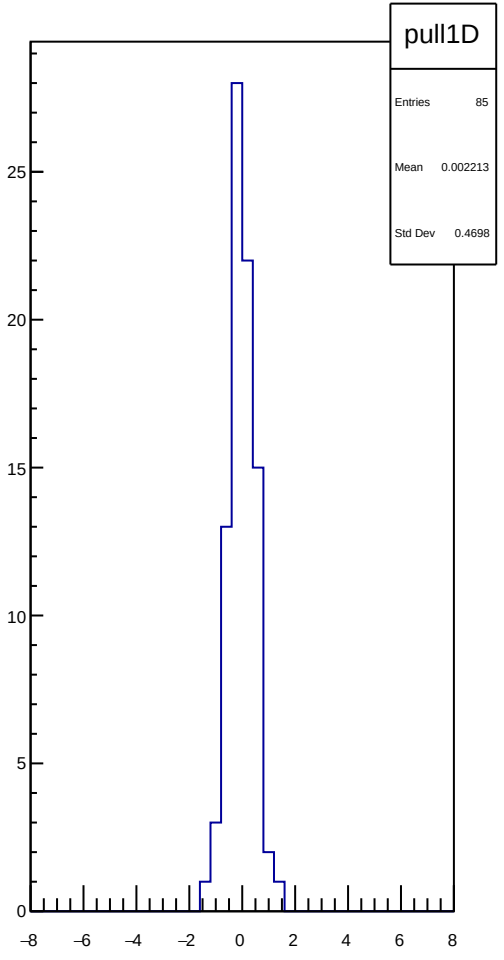

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 18.16 / 84
p0 −71.49 ± 2.651
pull
Entries 85
Mean 696.4
Std Dev 0

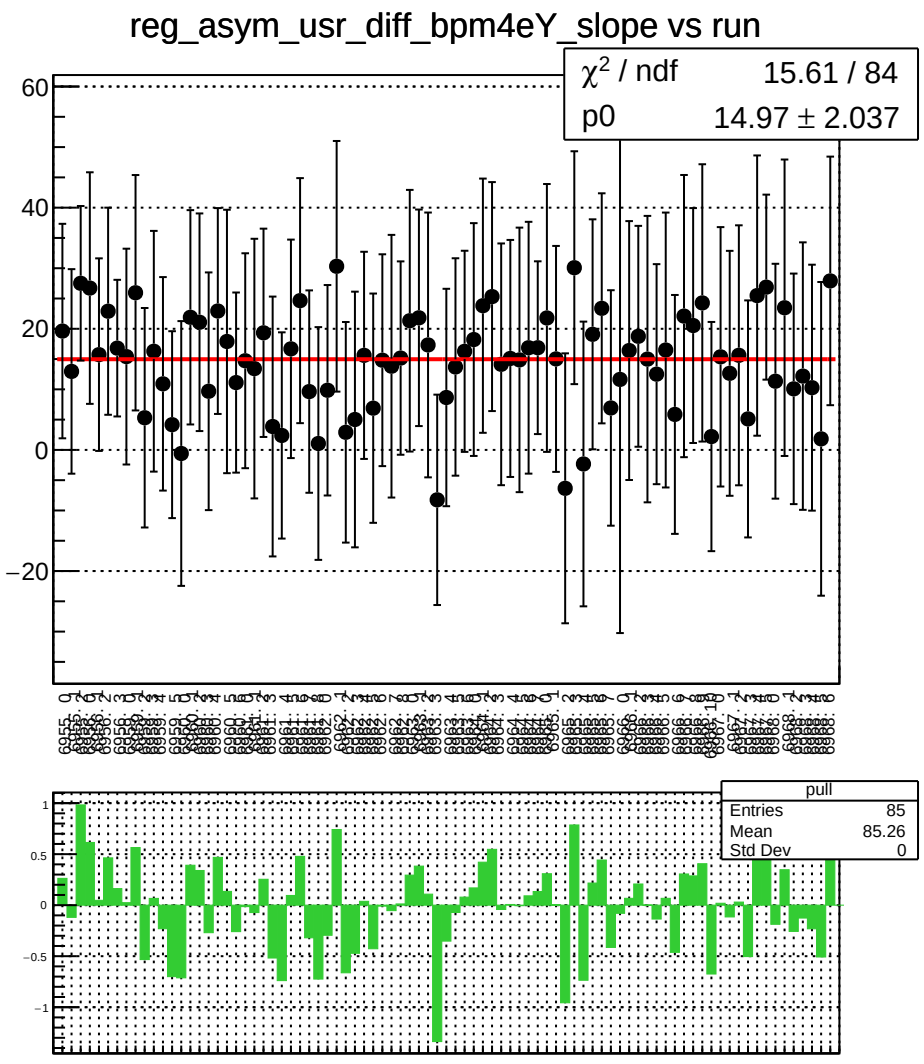

pull1D
Entries 85
Mean −0.002294
Std Dev 0.4622

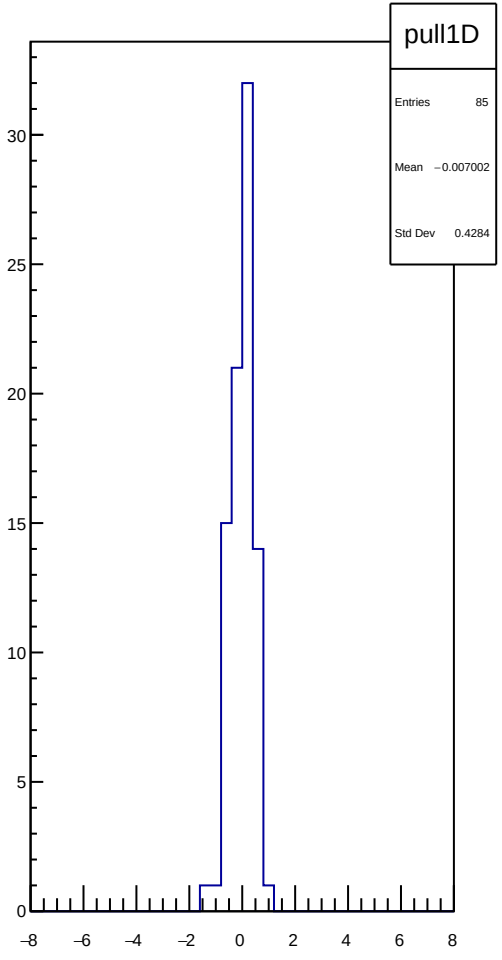

reg_asym_usr_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 16.83 / 84
p0 2.329 ± 1.793
40
20
0
−20
−40
pull
Entries 85
Mean 95.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1

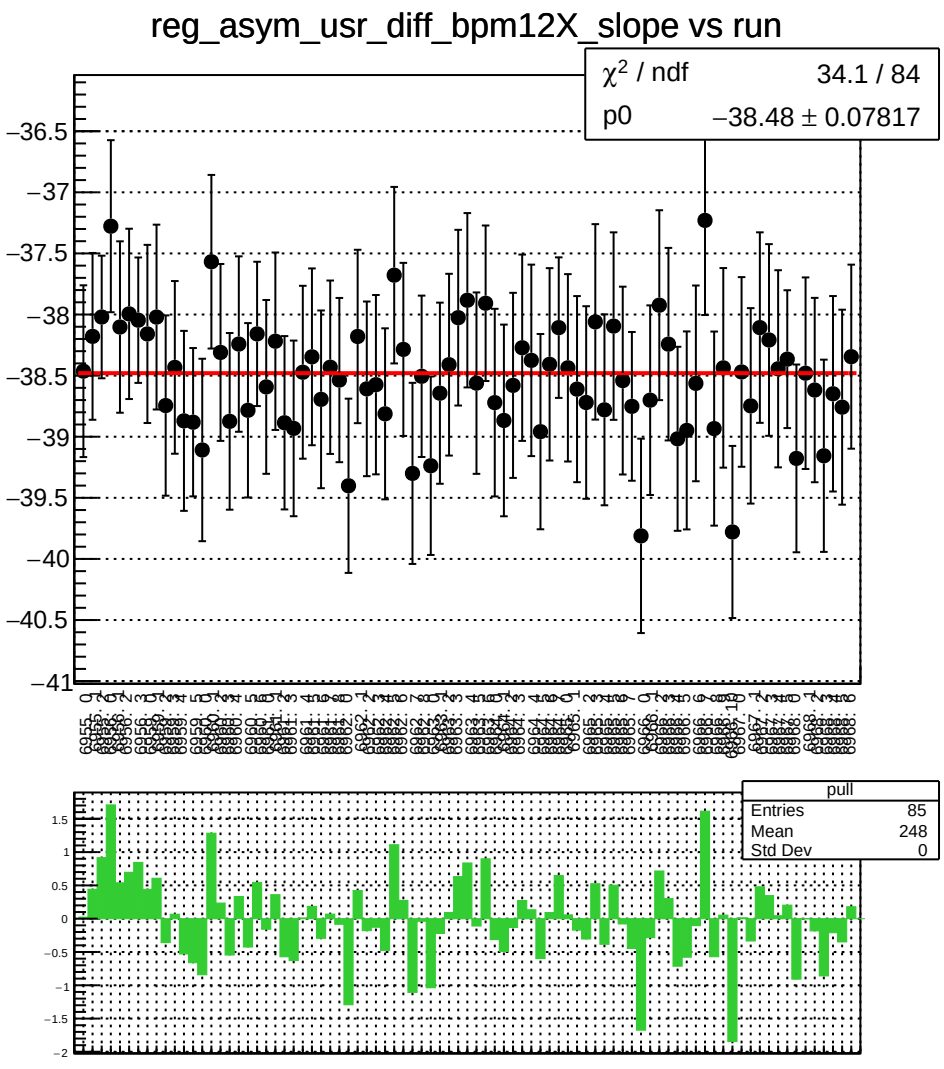

pull1D
Entries 85
Mean 0.009313
Std Dev 0.4449
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

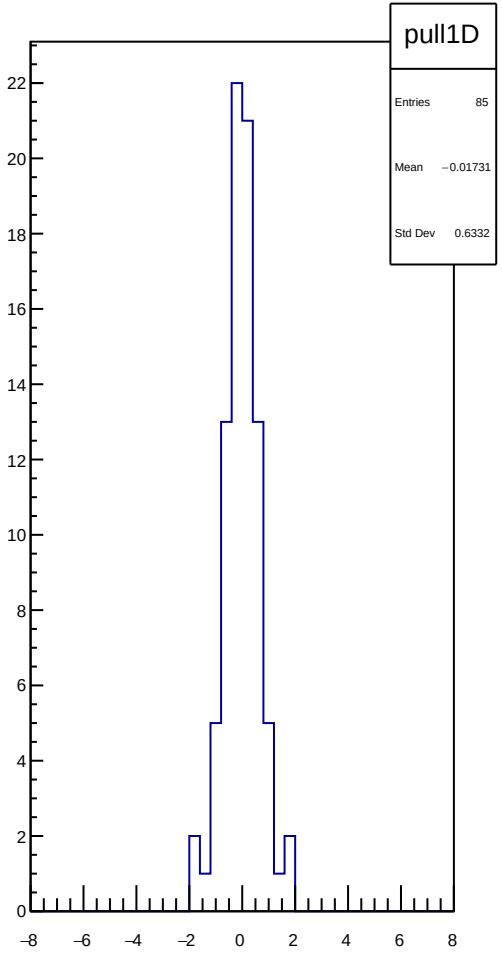

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 18.76 / 84
p0 128.7 ± 2.449
pull
Entries 85
Mean 865.2
Std Dev 0

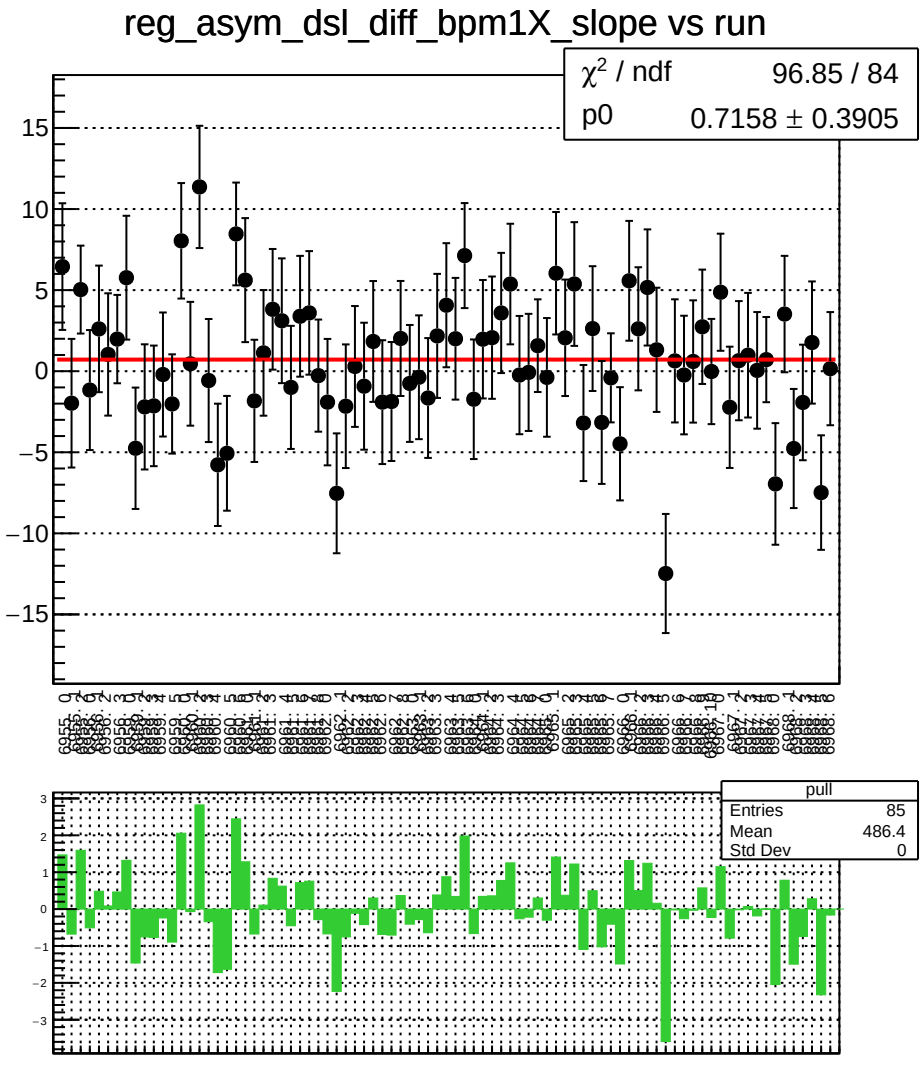

pull1D
Entries 85
Mean 0.002213
Std Dev 0.4698

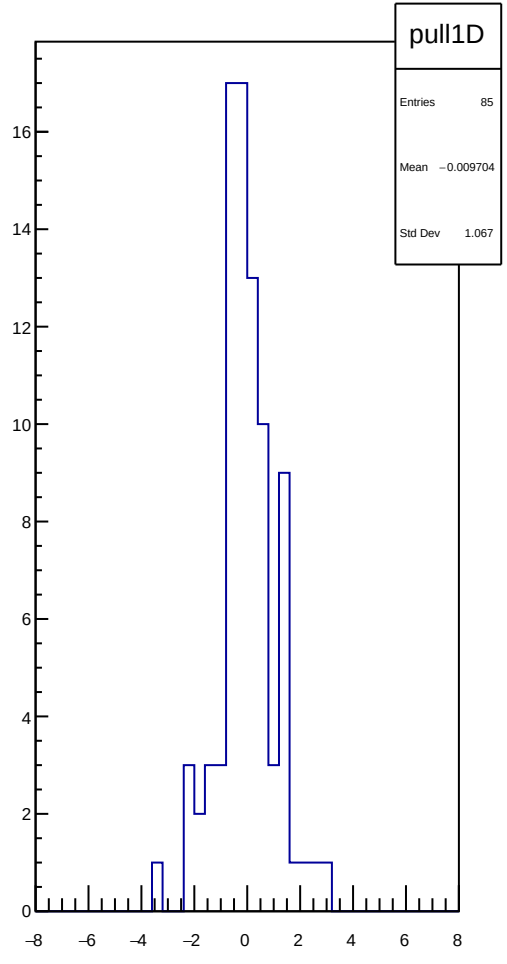

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 15.61 / 84
p0 14.97 ± 2.037
pull
Entries 85
Mean 85.26
Std Dev 0

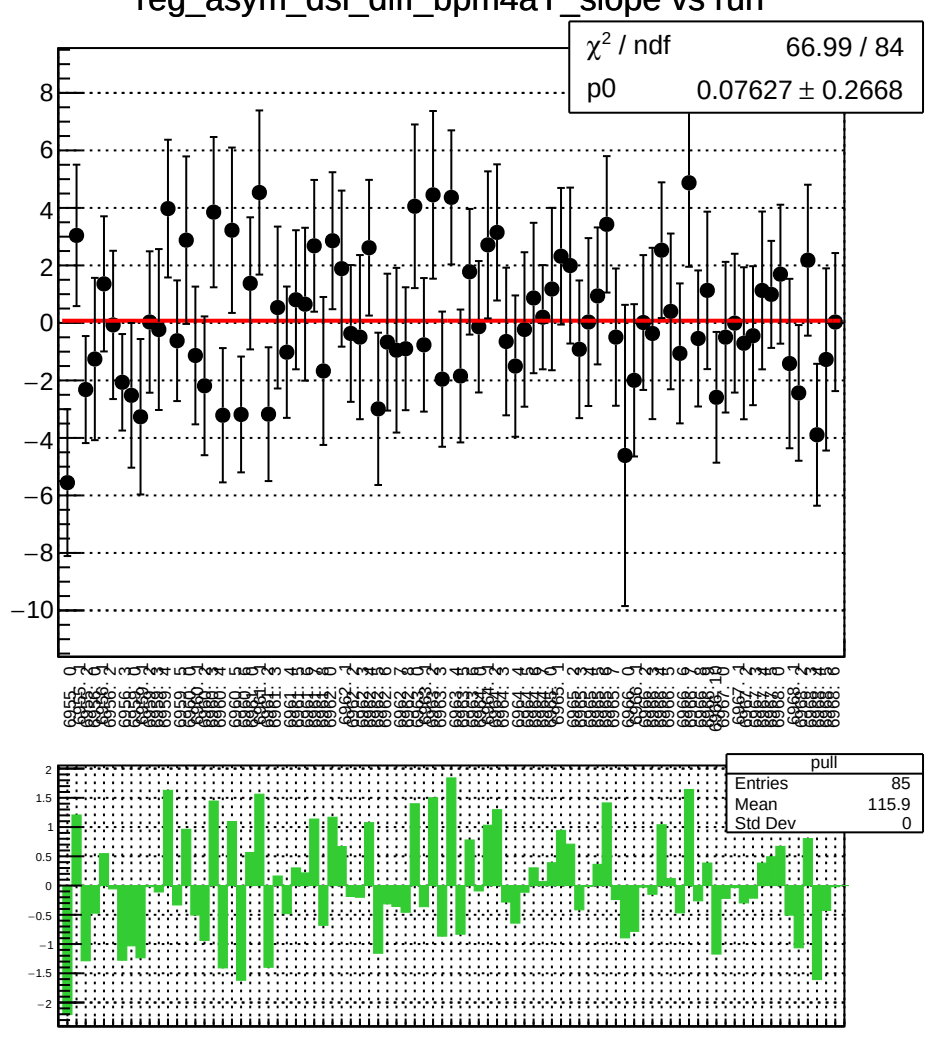

pull1D
Entries 85
Mean −0.007002
Std Dev 0.4284

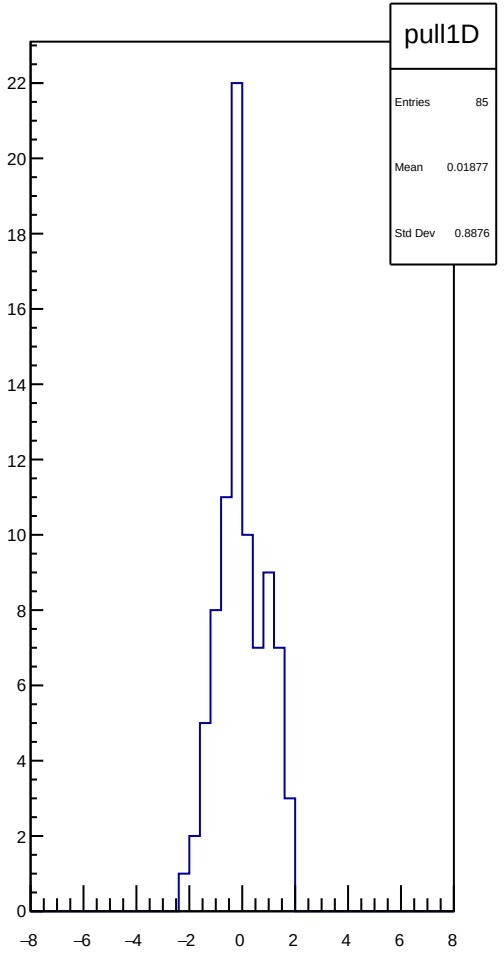

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 34.1 / 84
p0 −38.48 ± 0.07817
pull
Entries 85
Mean 248
Std Dev 0

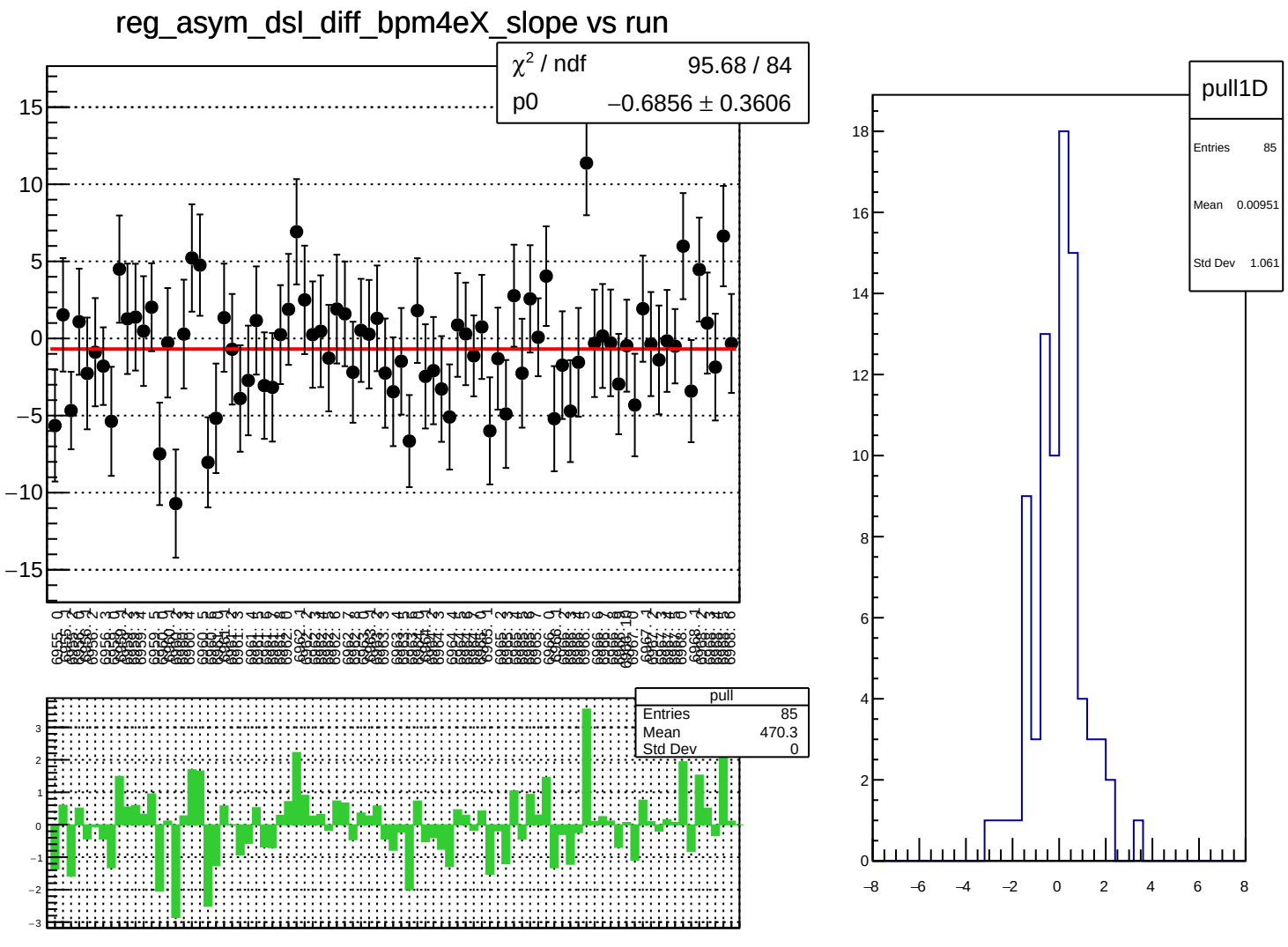

pull1D
Entries 85
Mean −0.01731
Std Dev 0.6332

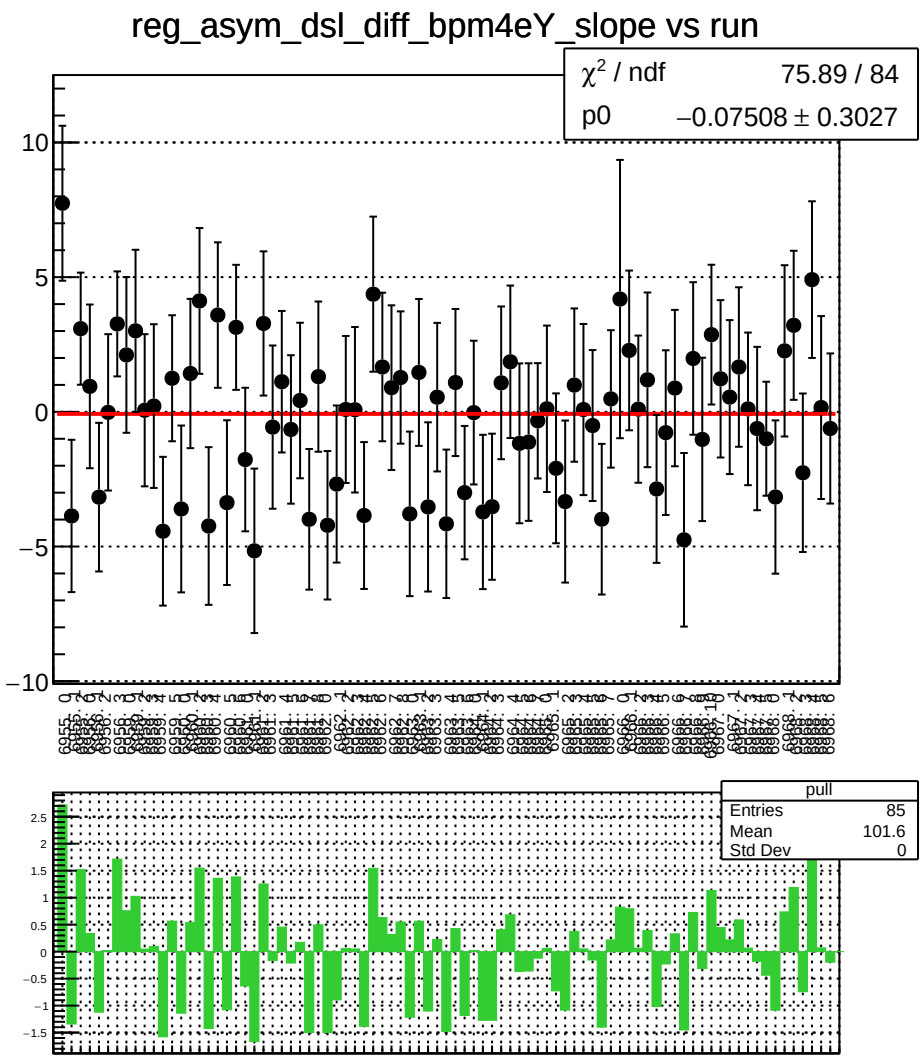

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 96.85 / 84
p0 0.7158 ± 0.3905
pull
Entries 85
Mean 486.4
Std Dev 0

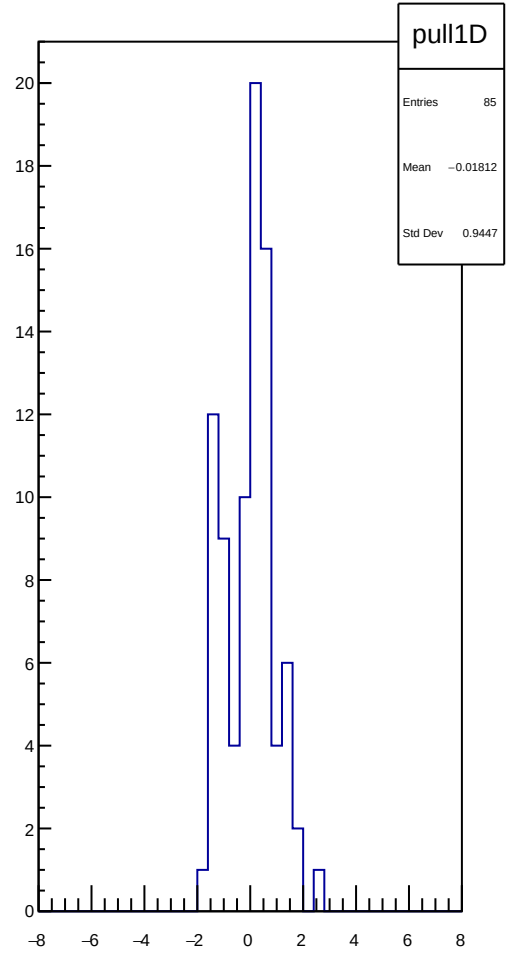

pull1D
Entries 85
Mean −0.009704
Std Dev 1.067

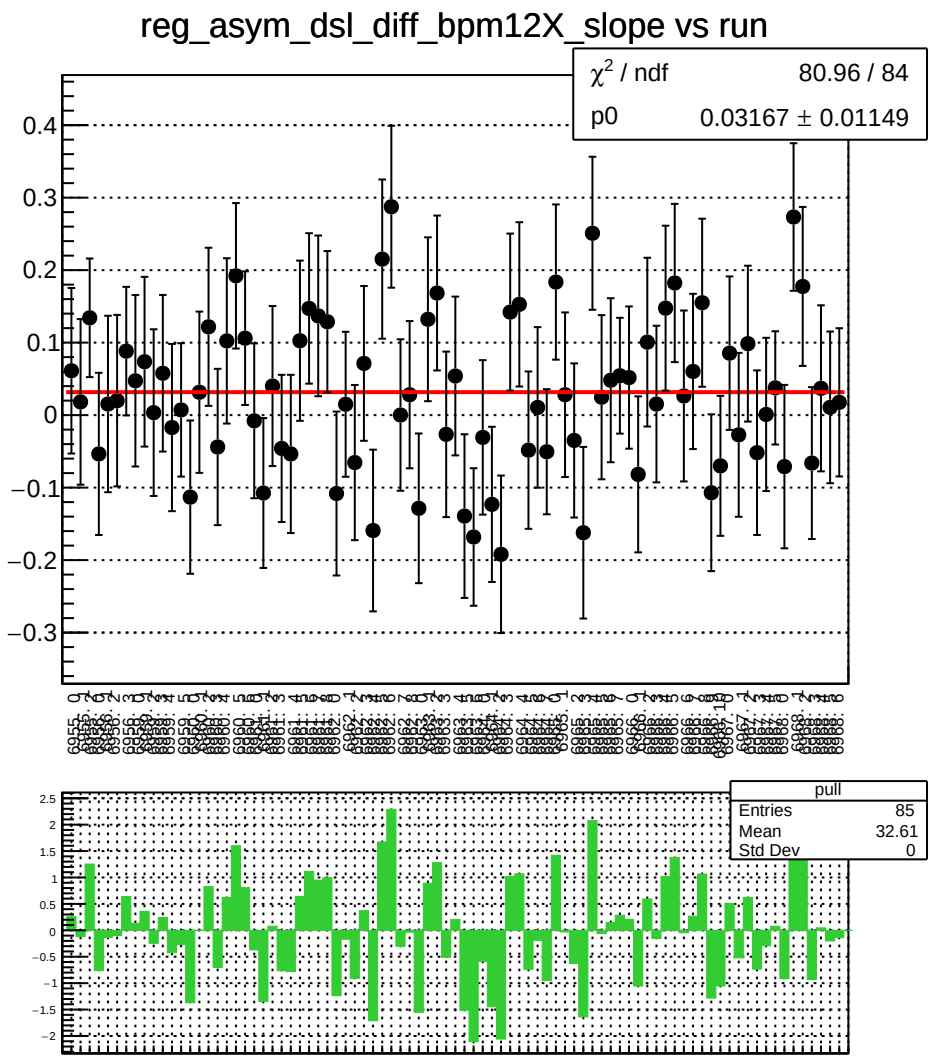

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 66.99 / 84
p0 0.07627 ± 0.2668
pull
Entries 85
Mean 115.9
Std Dev 0

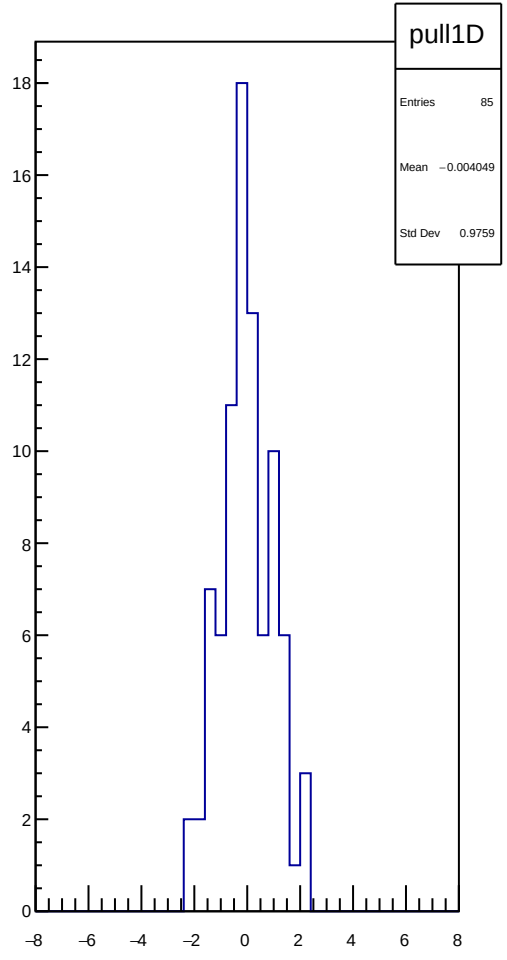

pull1D
Entries 85
Mean 0.01877
Std Dev 0.8876

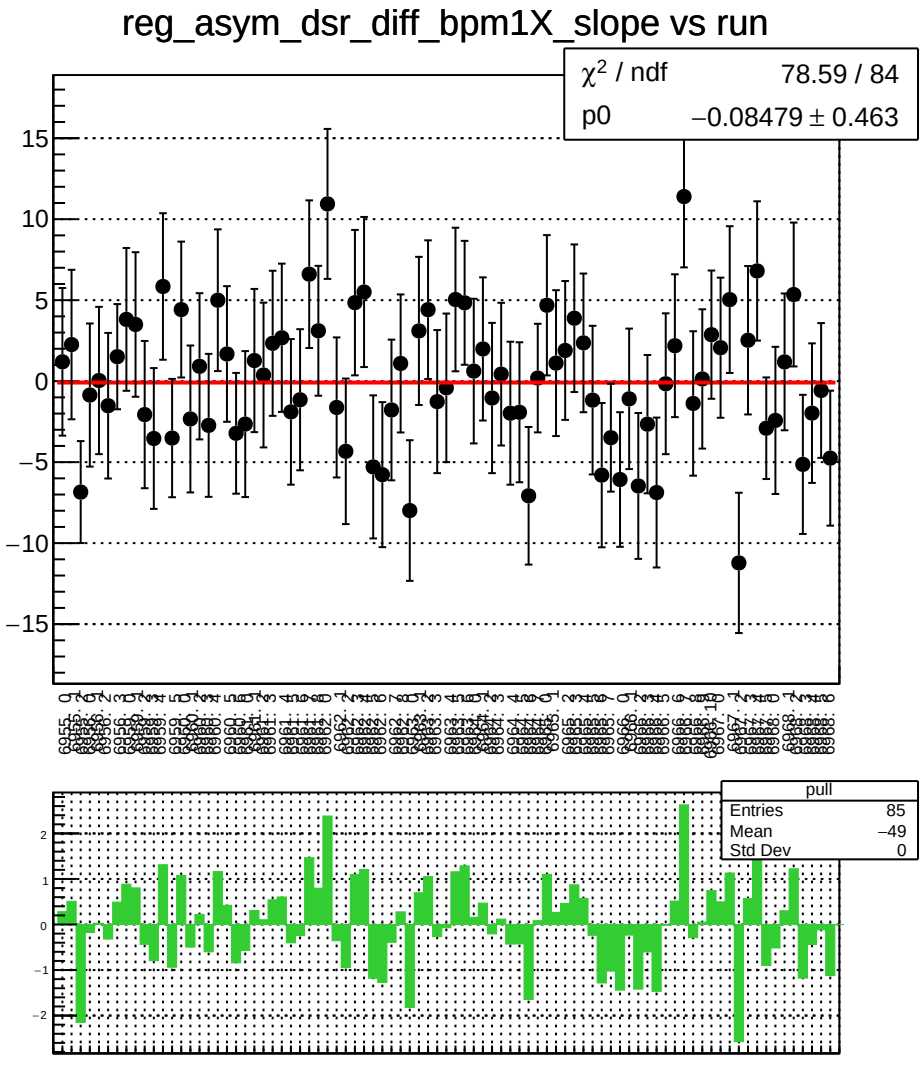

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 95.68 / 84
p0 −0.6856 ± 0.3606
pull
Entries 85
Mean 470.3
Std Dev 0
pull1D
Entries 85
Mean 0.00951
Std Dev 1.061

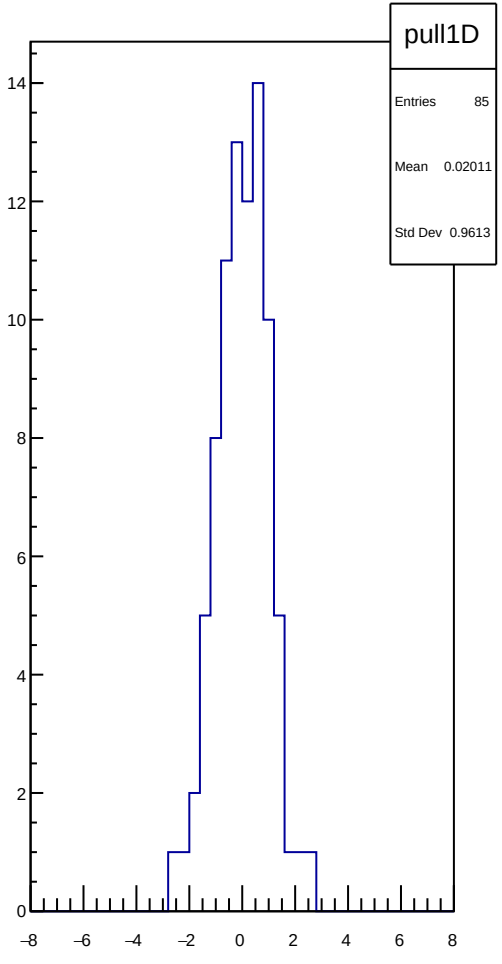

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 75.89 / 84
p0 −0.07508 ± 0.3027
pull
Entries 85
Mean 101.6
Std Dev 0

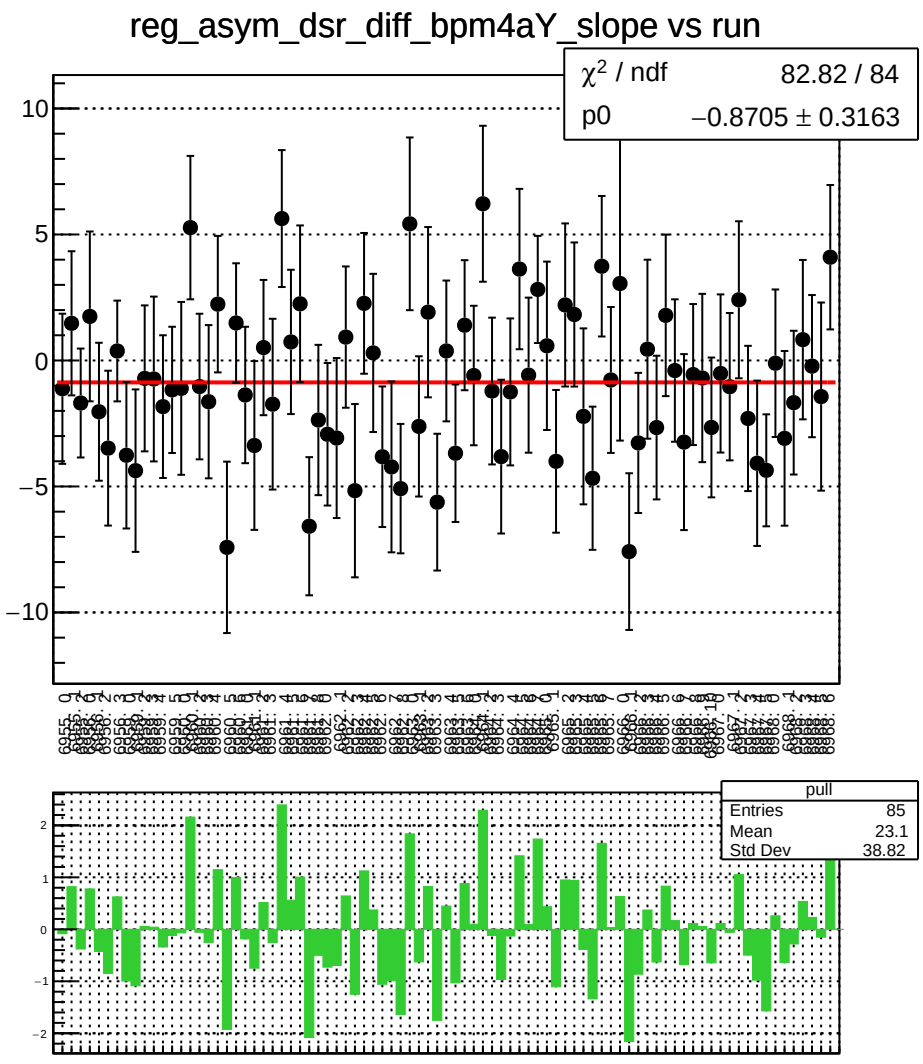

pull1D
Entries 85
Mean −0.01812
Std Dev 0.9447

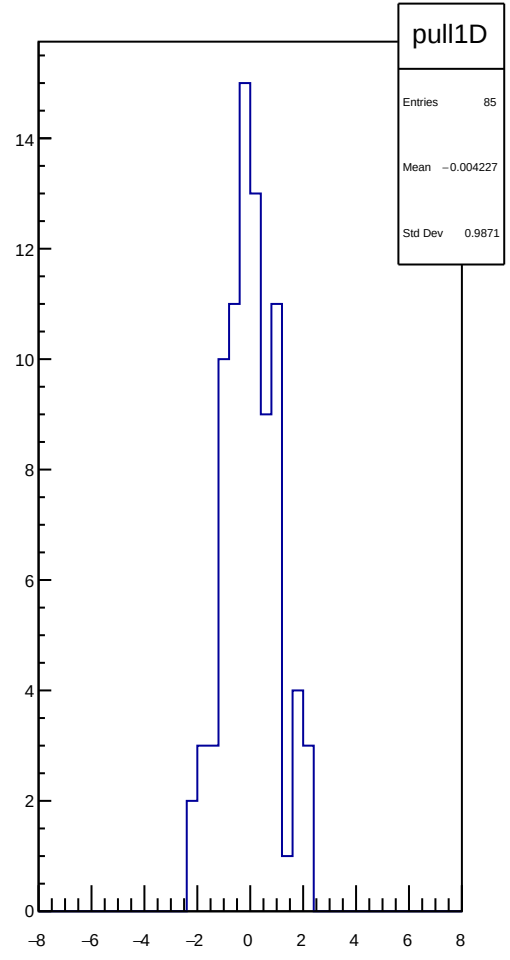

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 80.96 / 84
p0 0.03167 ± 0.01149
pull
Entries 85
Mean 32.61
Std Dev 0

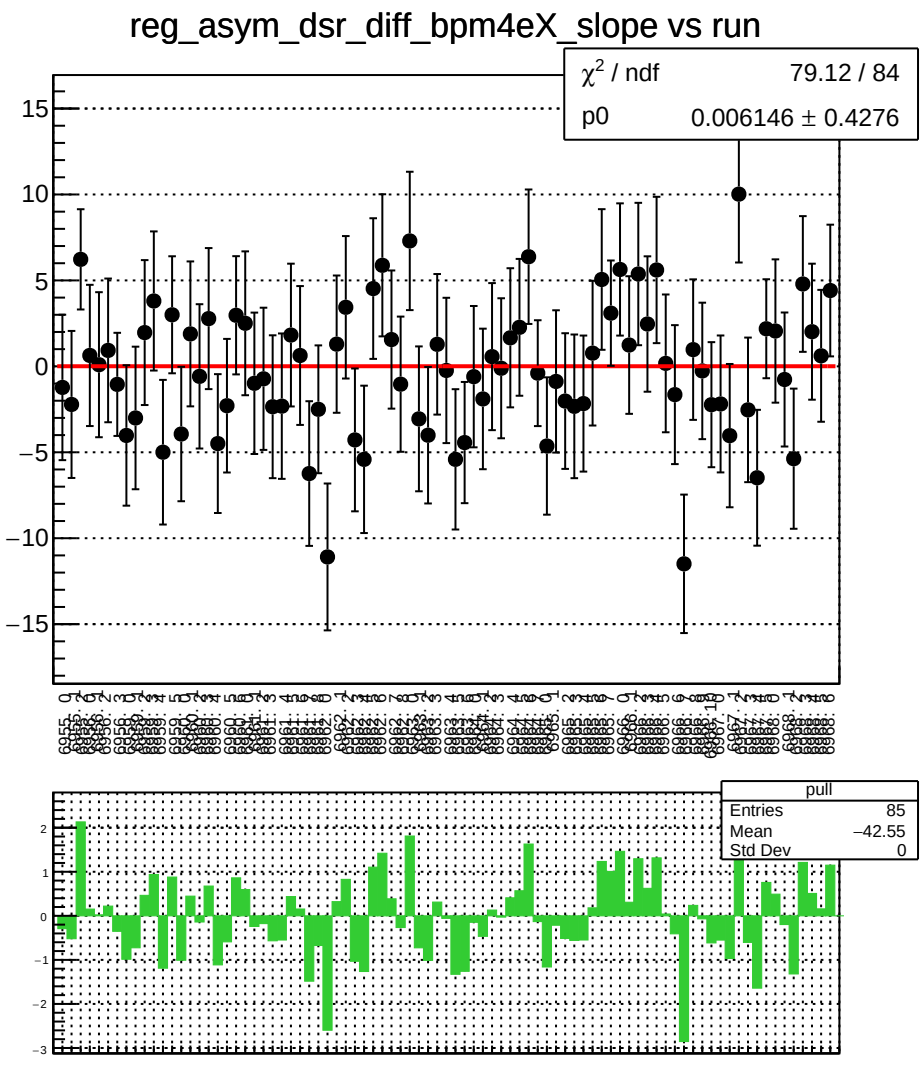

pull1D
Entries 85
Mean −0.004049
Std Dev 0.9759

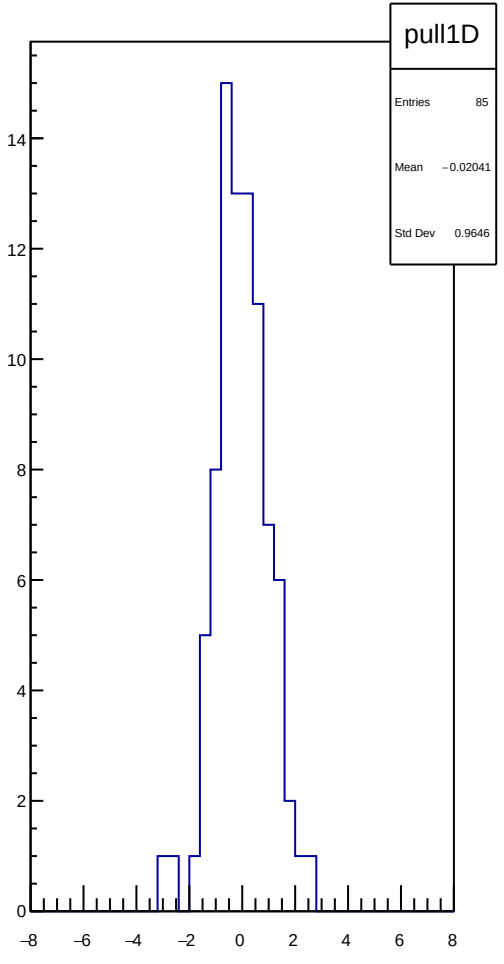

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 78.59 / 84
p0 −0.08479 ± 0.463
pull
Entries 85
Mean −49
Std Dev 0

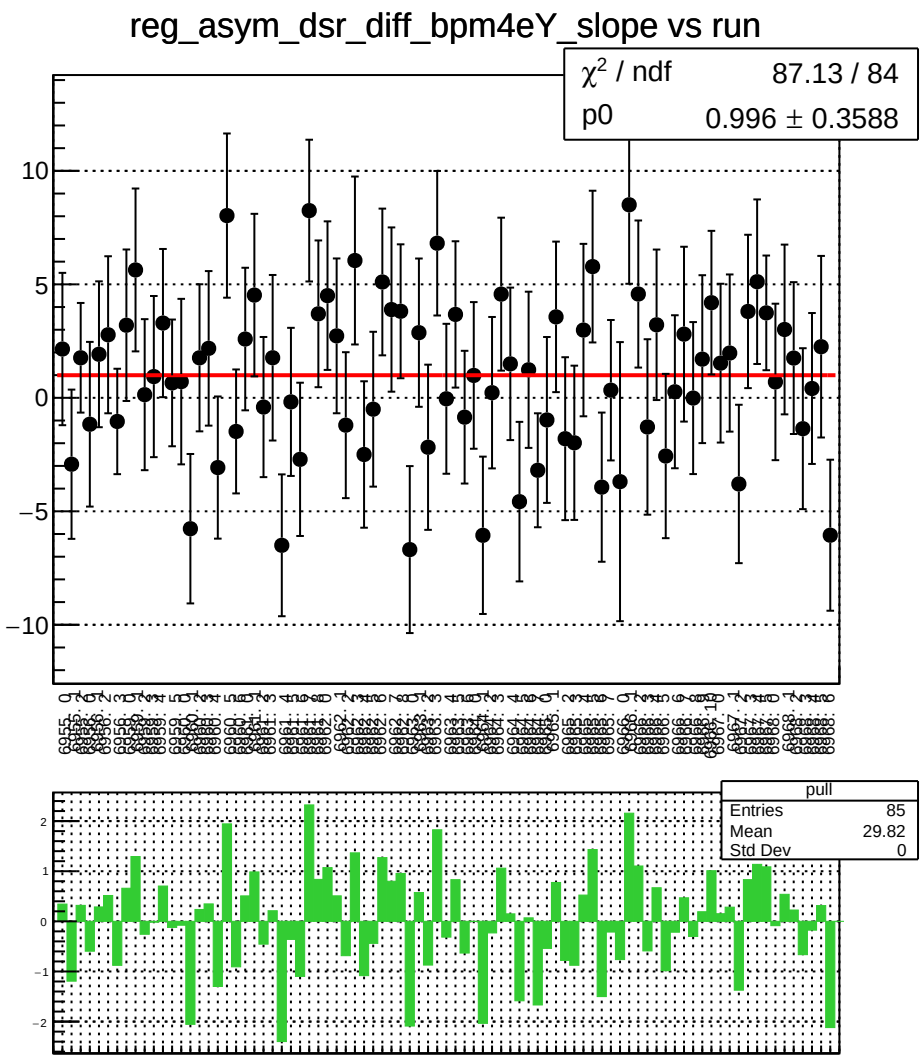

pull1D
Entries 85
Mean 0.02011
Std Dev 0.9613

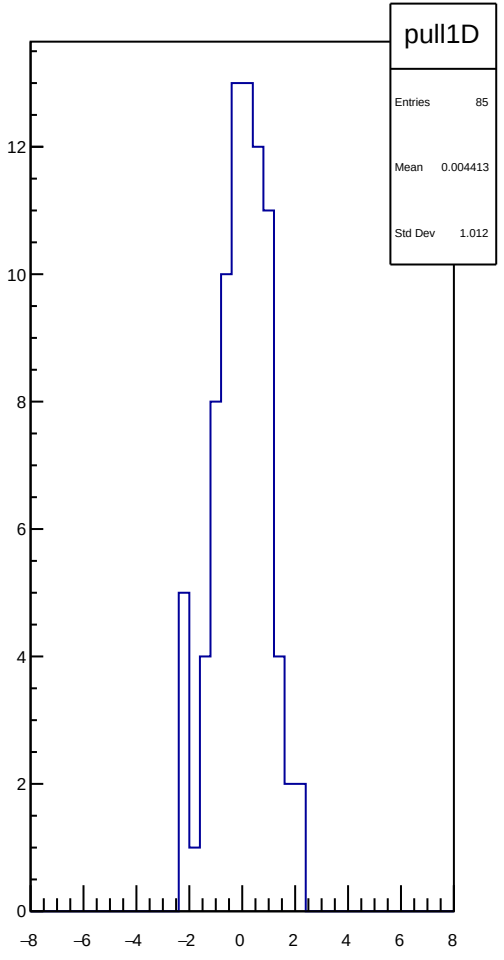

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 82.82 / 84
p0 −0.8705 ± 0.3163
pull
Entries 85
Mean 23.1
Std Dev 38.82

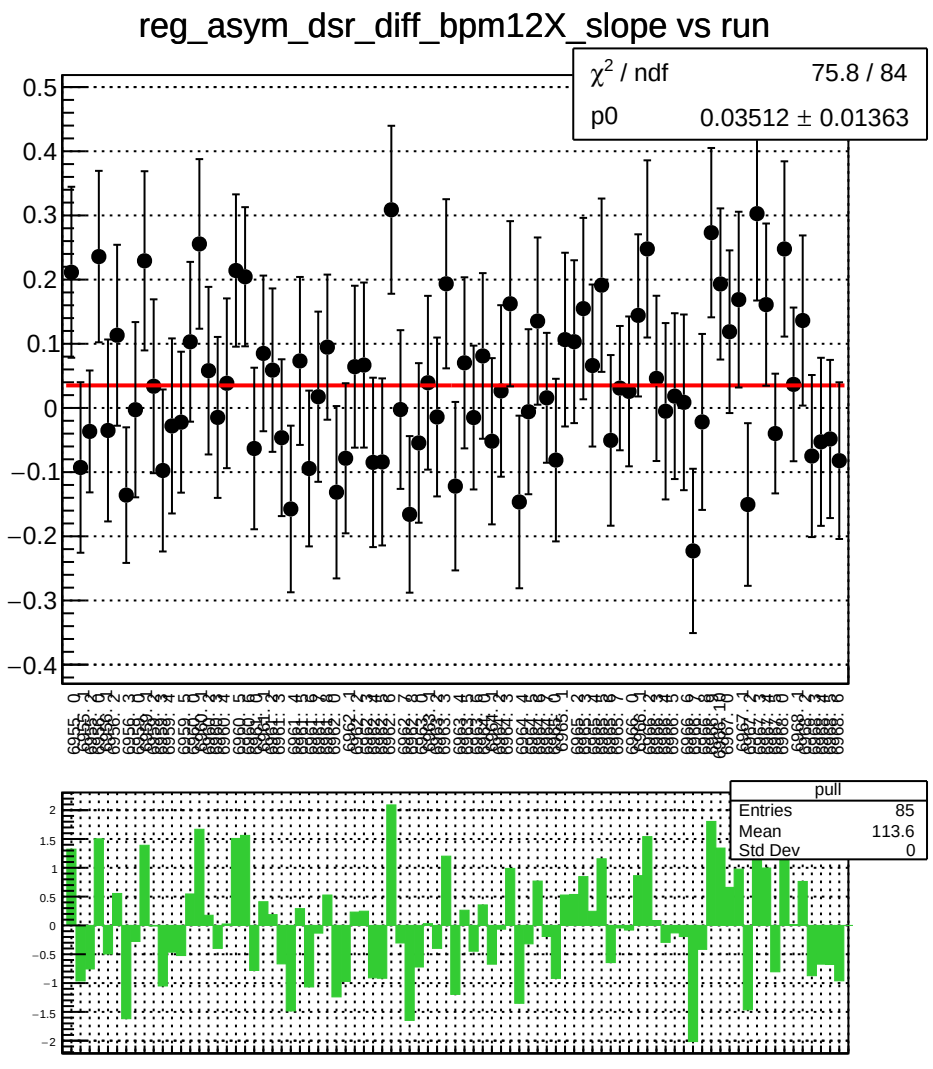

pull1D
Entries 85
Mean −0.004227
Std Dev 0.9871

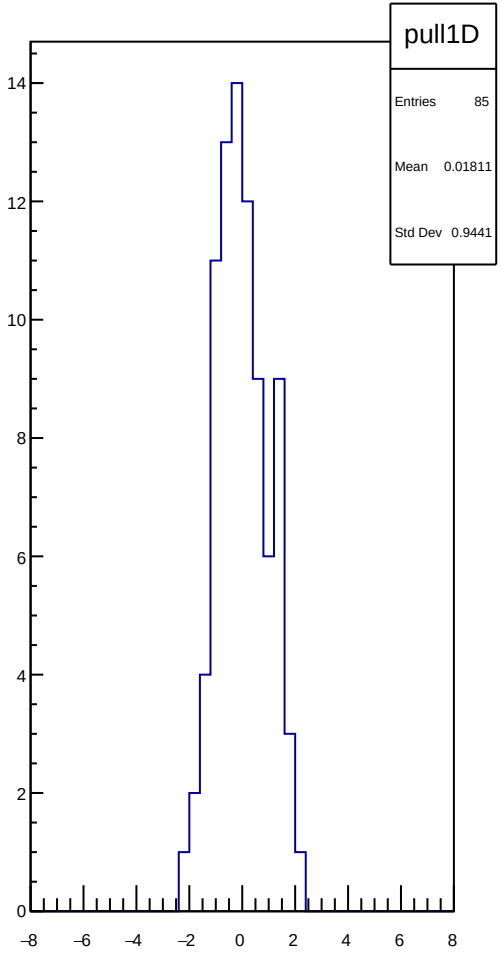

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 79.12 / 84
p0 0.006146 ± 0.4276
pull
Entries 85
Mean −42.55
Std Dev 0

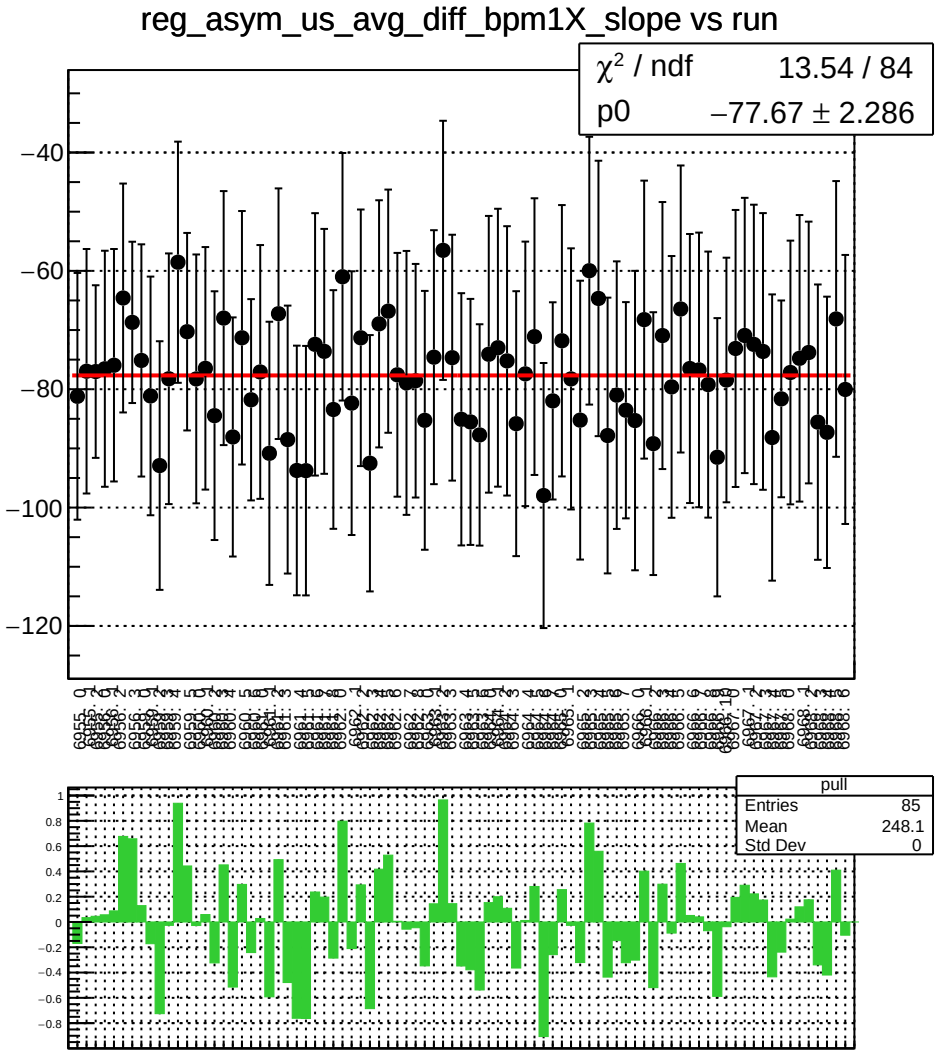

pull1D
Entries 85
Mean −0.02041
Std Dev 0.9646

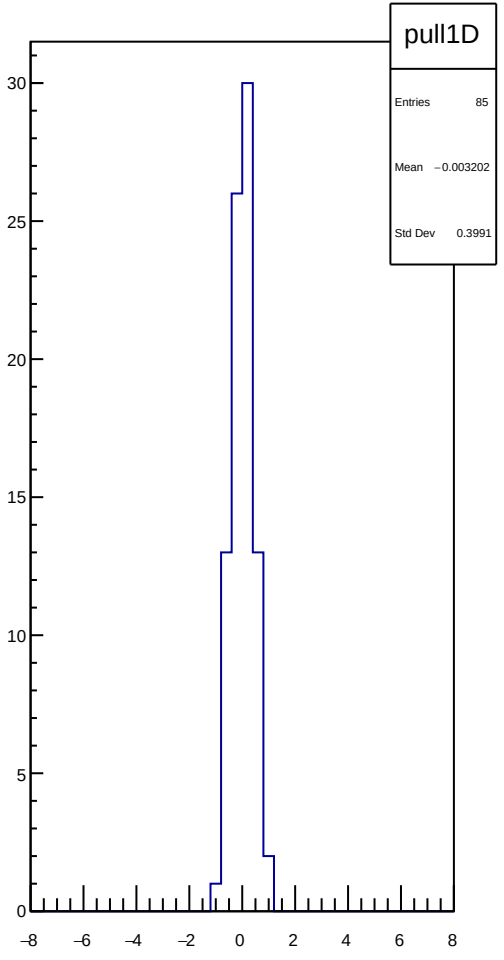

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 87.13 / 84
p0 0.996 ± 0.3588
pull
Entries 85
Mean 29.82
Std Dev 0

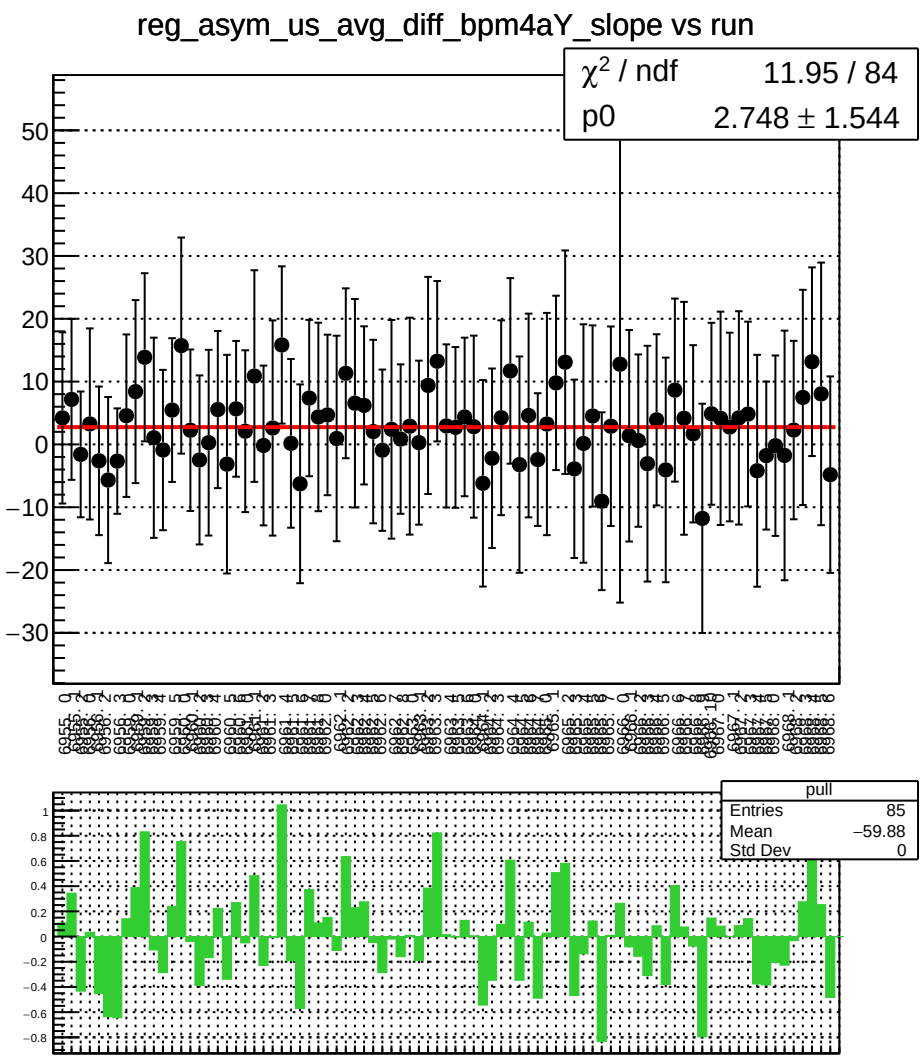

pull1D
Entries 85
Mean 0.004413
Std Dev 1.012

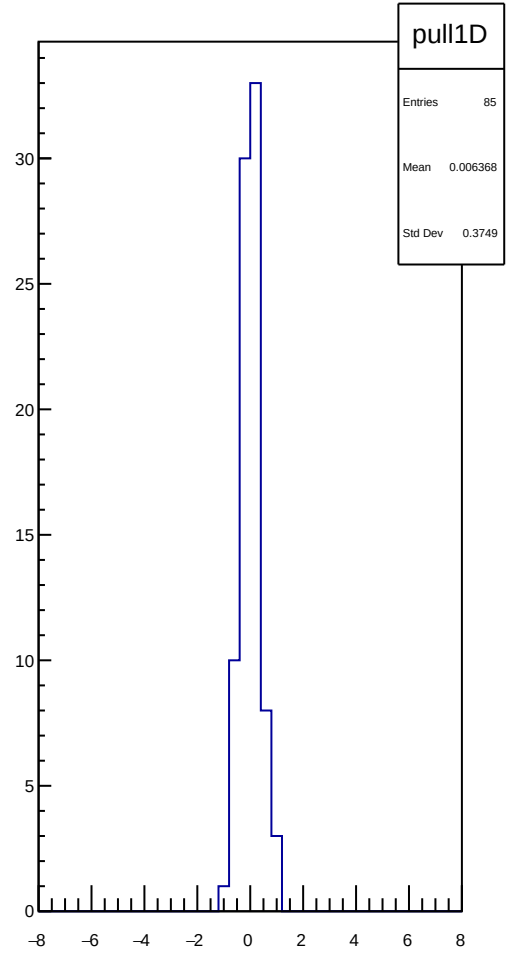

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 75.8 / 84
p0 0.03512 ± 0.01363
pull
Entries 85
Mean 113.6
Std Dev 0

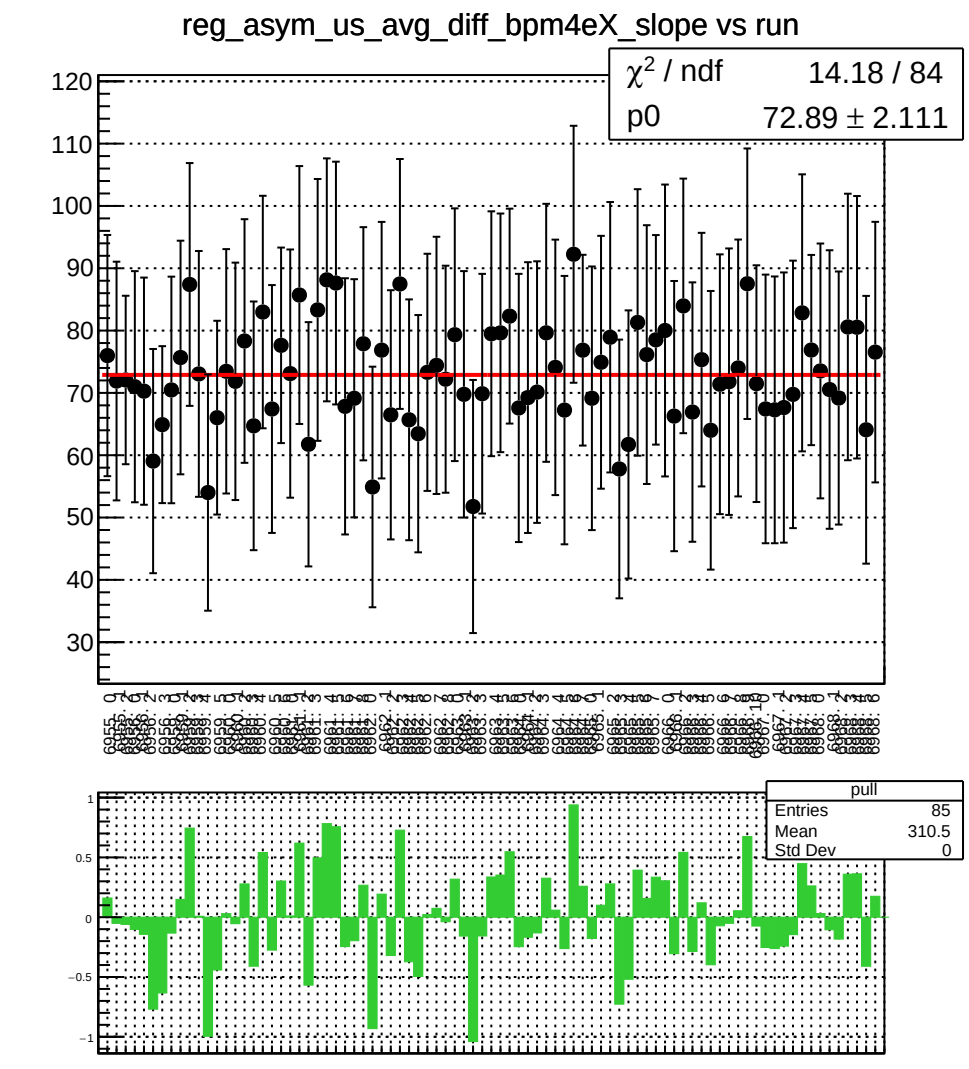

pull1D
Entries 85
Mean 0.01811
Std Dev 0.9441

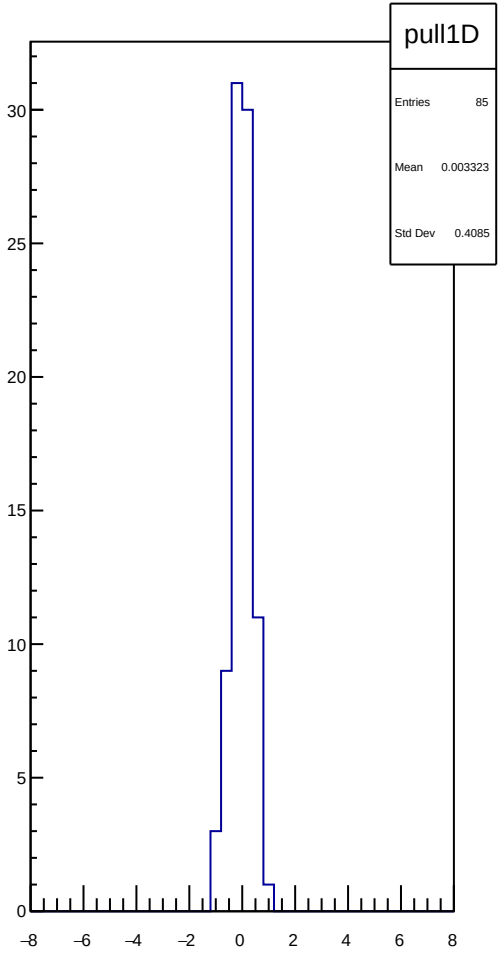

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 13.54 / 84
p0 −77.67 ± 2.286
−40
−60
−80
−100
−120
pull
Entries 85
Mean 248.1
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

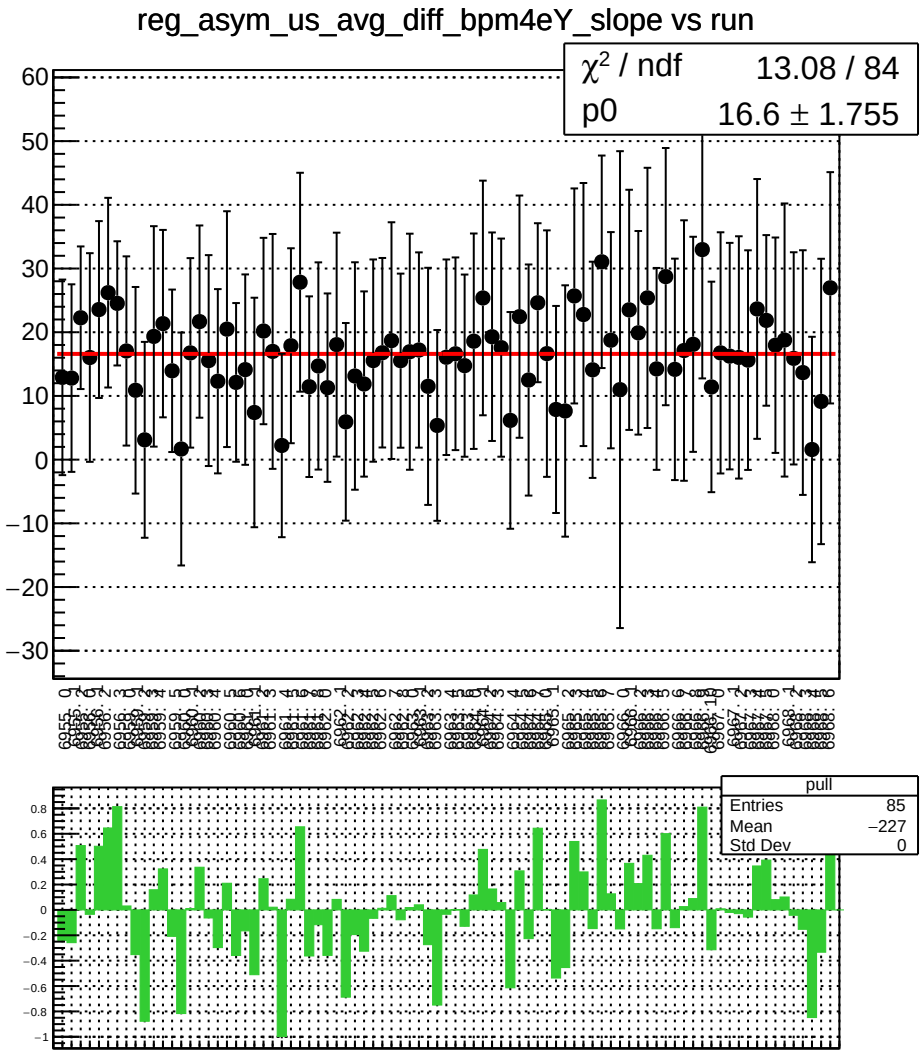

pull1D
Entries 85
Mean −0.003202
Std Dev 0.3991
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

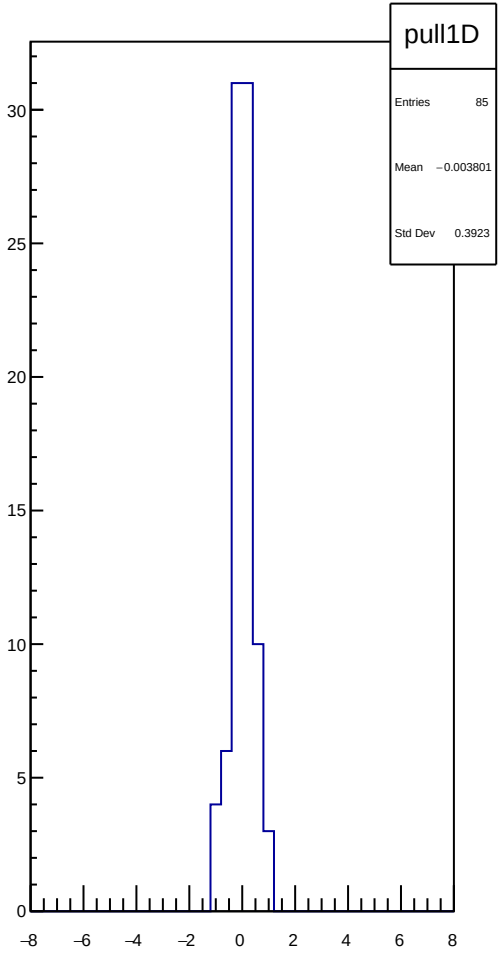

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.95 / 84
p0 2.748 ± 1.544
pull
Entries 85
Mean −59.88
Std Dev 0

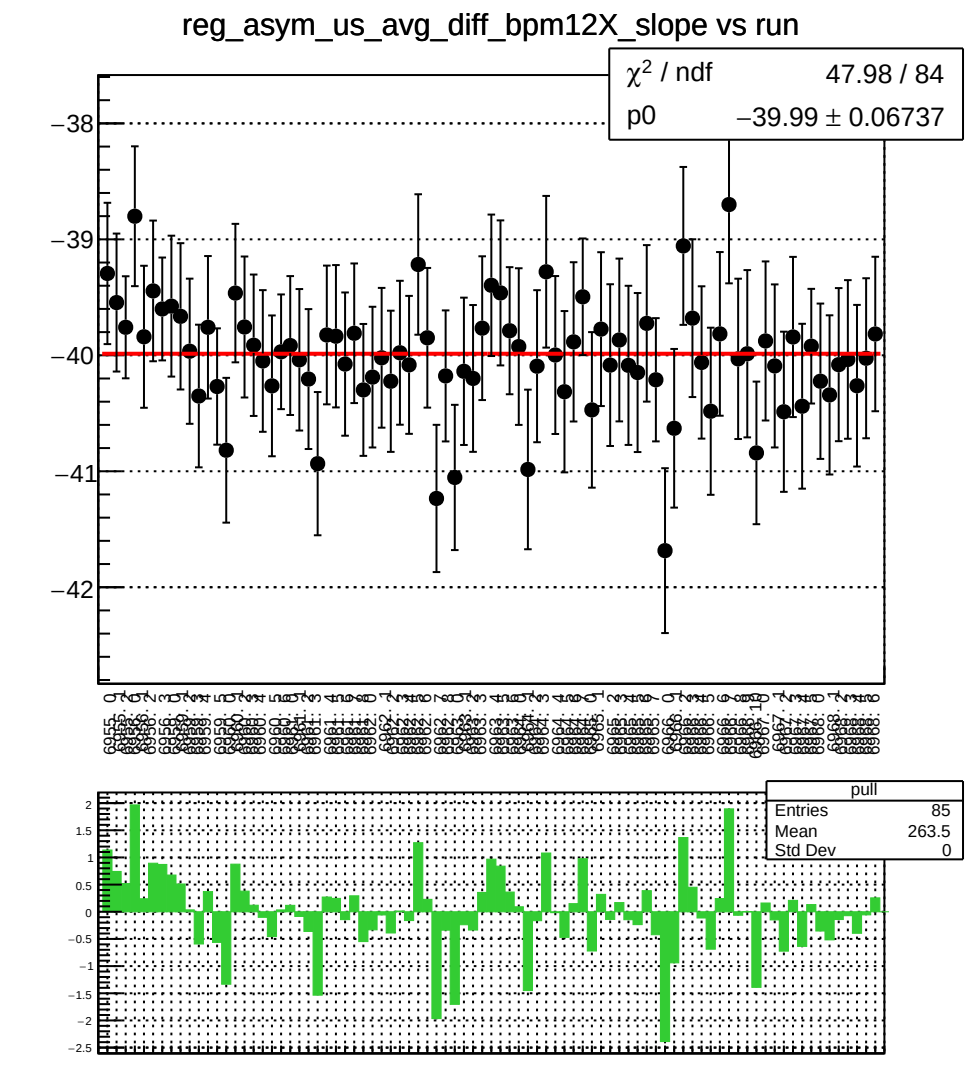

pull1D
Entries 85
Mean 0.006368
Std Dev 0.3749

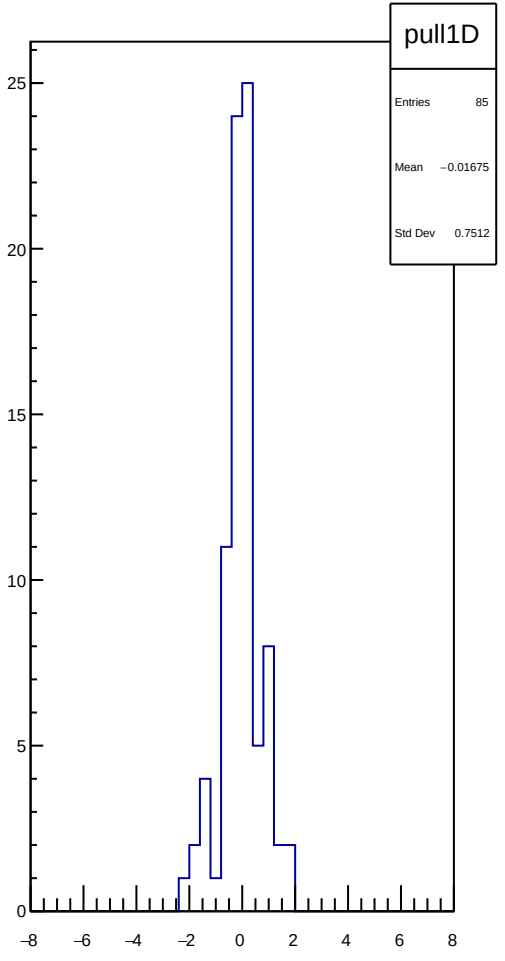

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.18 / 84
p0 72.89 ± 2.111
pull
Entries 85
Mean 310.5
Std Dev 0

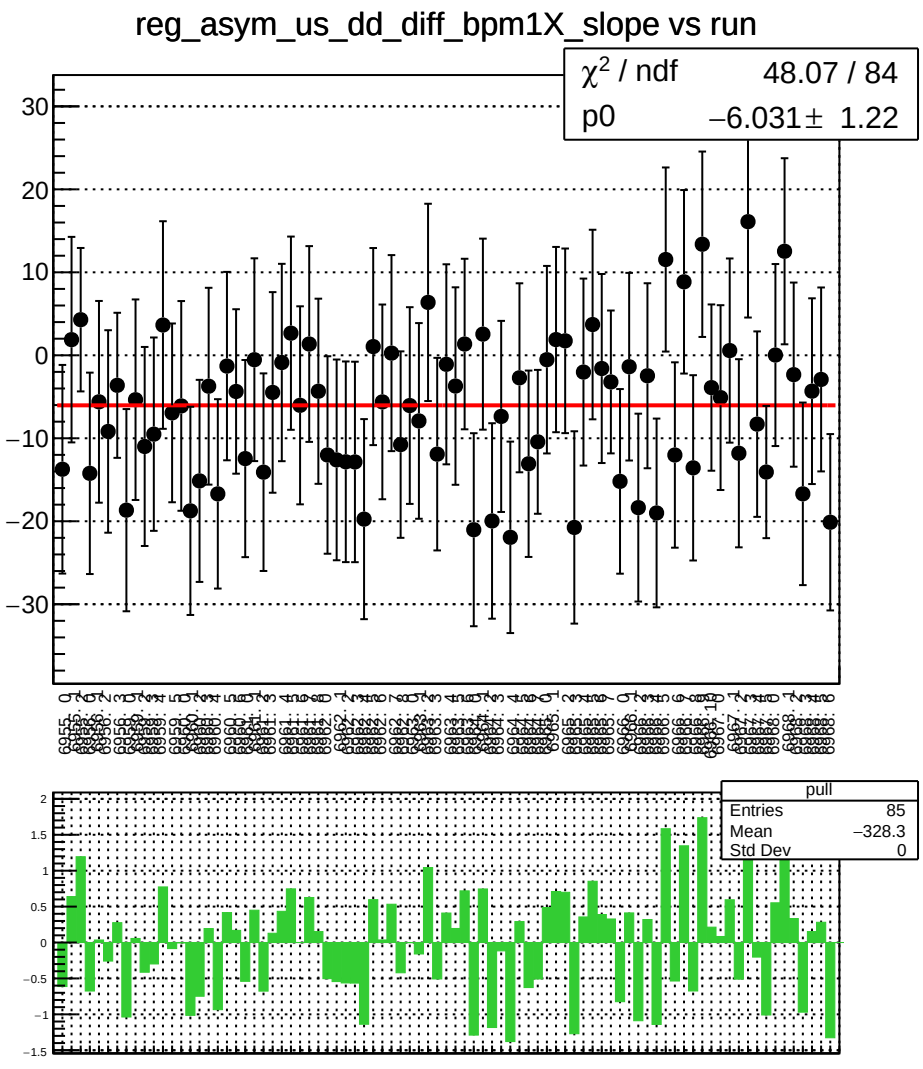

pull1D
Entries 85
Mean 0.003323
Std Dev 0.4085

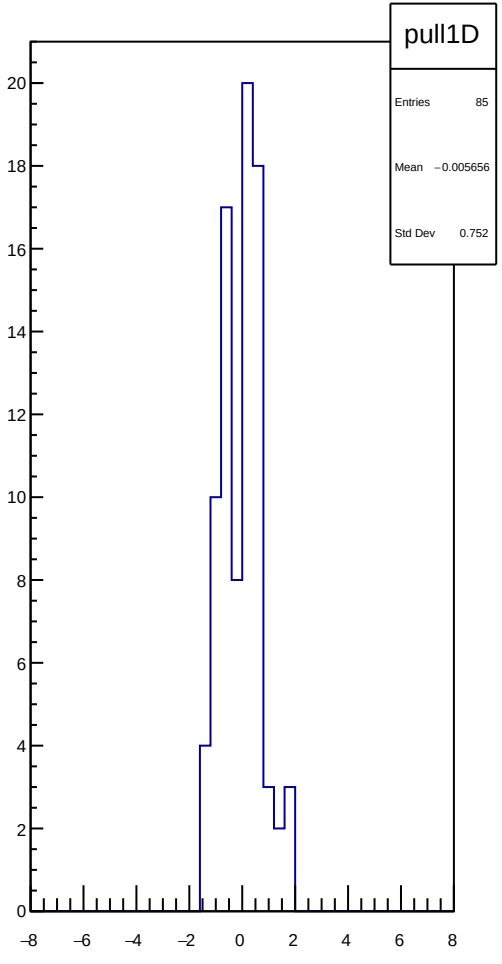

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.08 / 84
p0 16.6 ± 1.755
pull
Entries 85
Mean −227
Std Dev 0

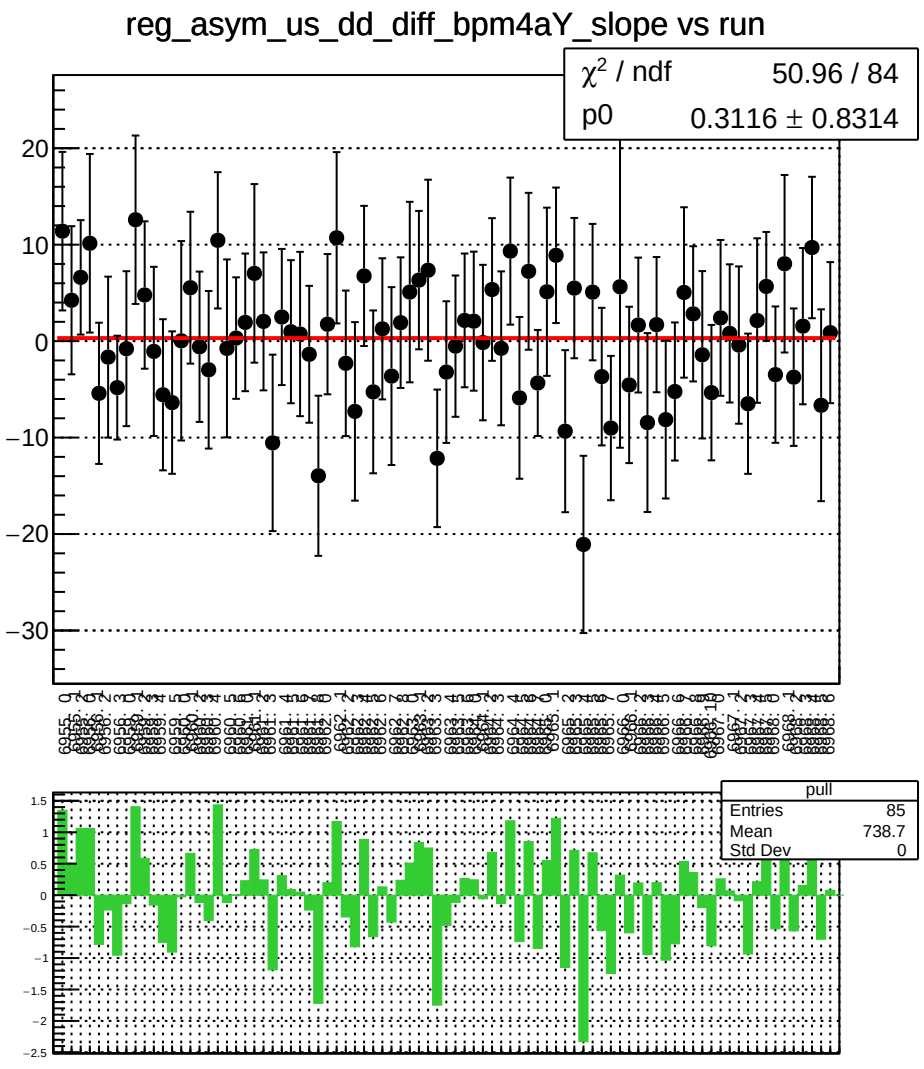

pull1D
Entries 85
Mean −0.003801
Std Dev 0.3923

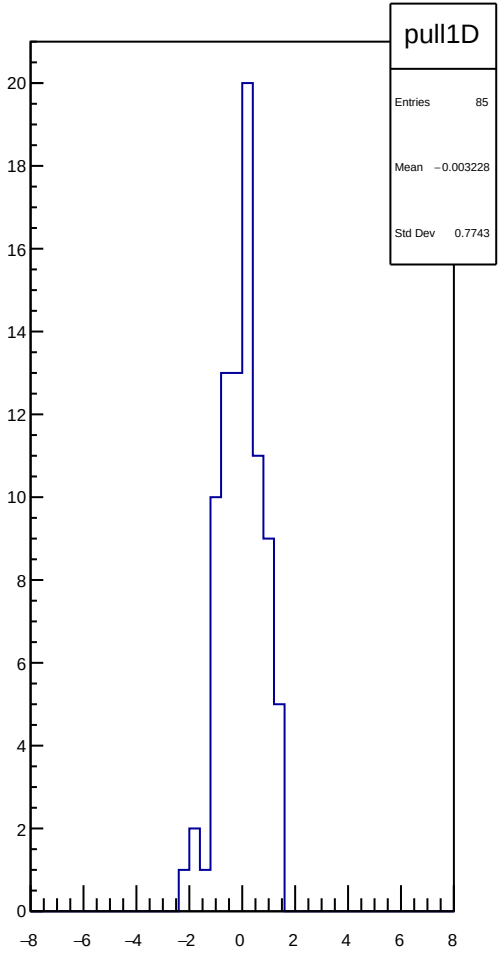

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 47.98 / 84
p0 −39.99 ± 0.06737
pull
Entries 85
Mean 263.5
Std Dev 0

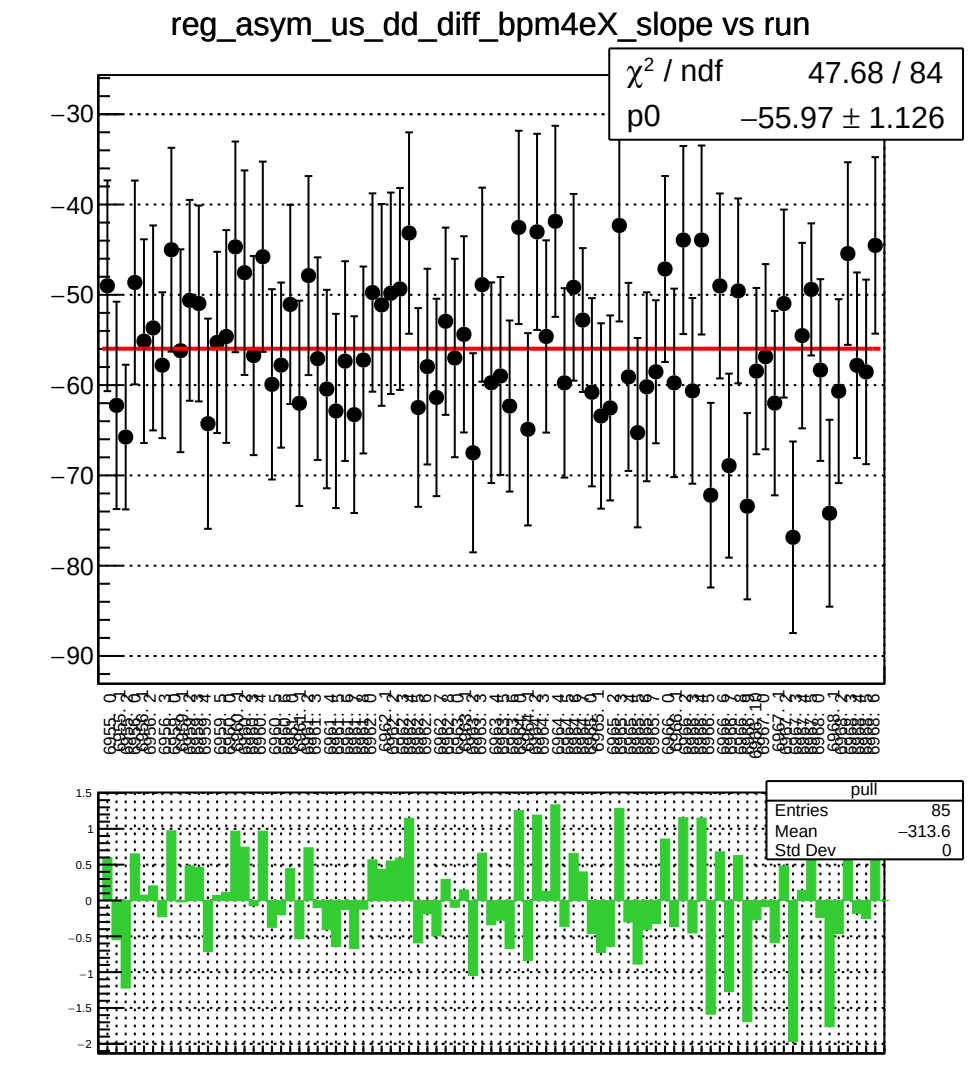

pull1D
Entries 85
Mean −0.01675
Std Dev 0.7512

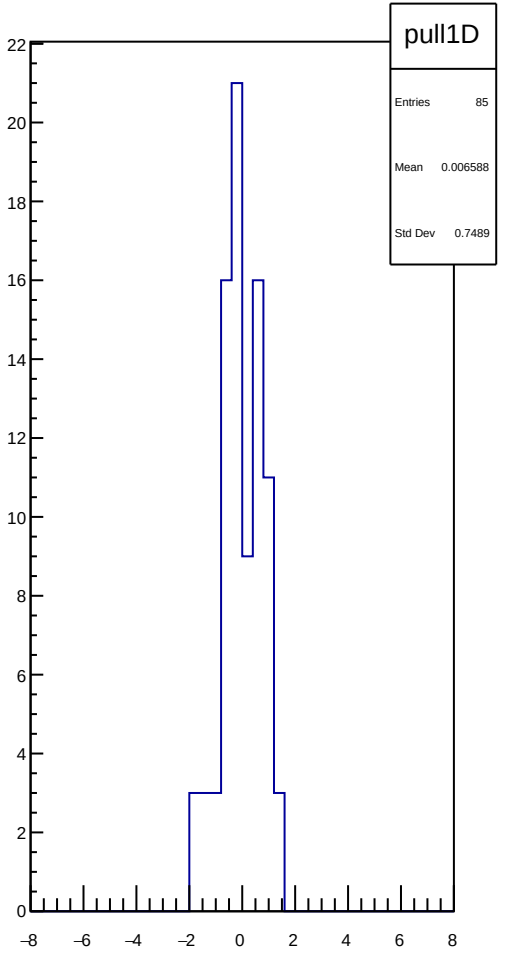

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 48.07 / 84
p0 −6.031 ± 1.22
pull
Entries 85
Mean −328.3
Std Dev 0

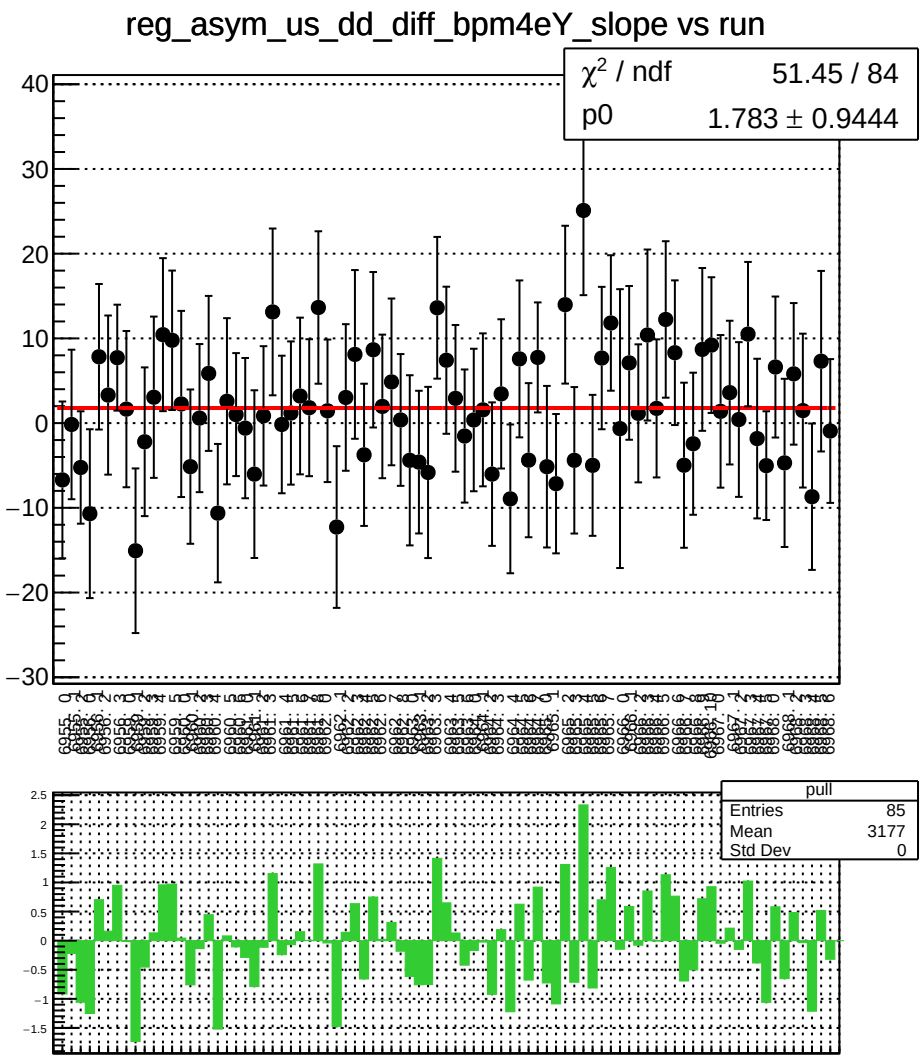

pull1D
Entries 85
Mean −0.005656
Std Dev 0.752

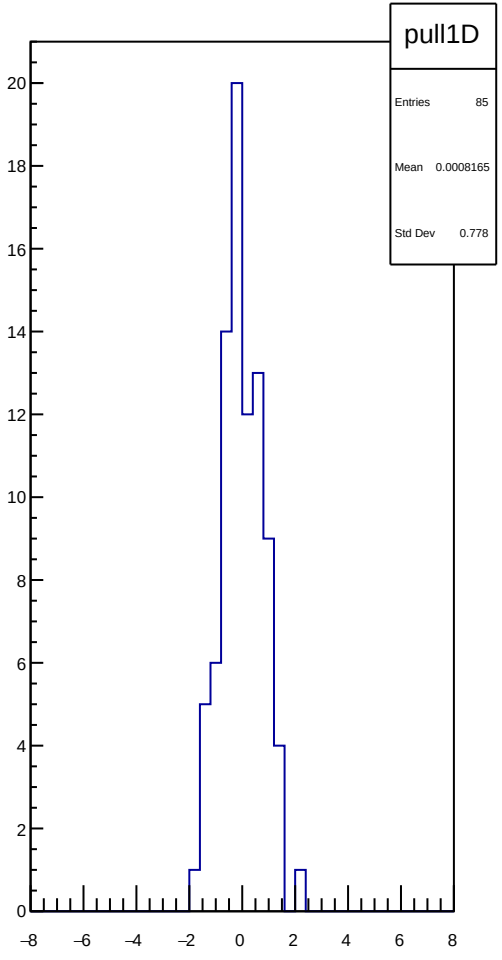

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.96 / 84
p0 0.3116 ± 0.8314
pull
Entries 85
Mean 738.7
Std Dev 0

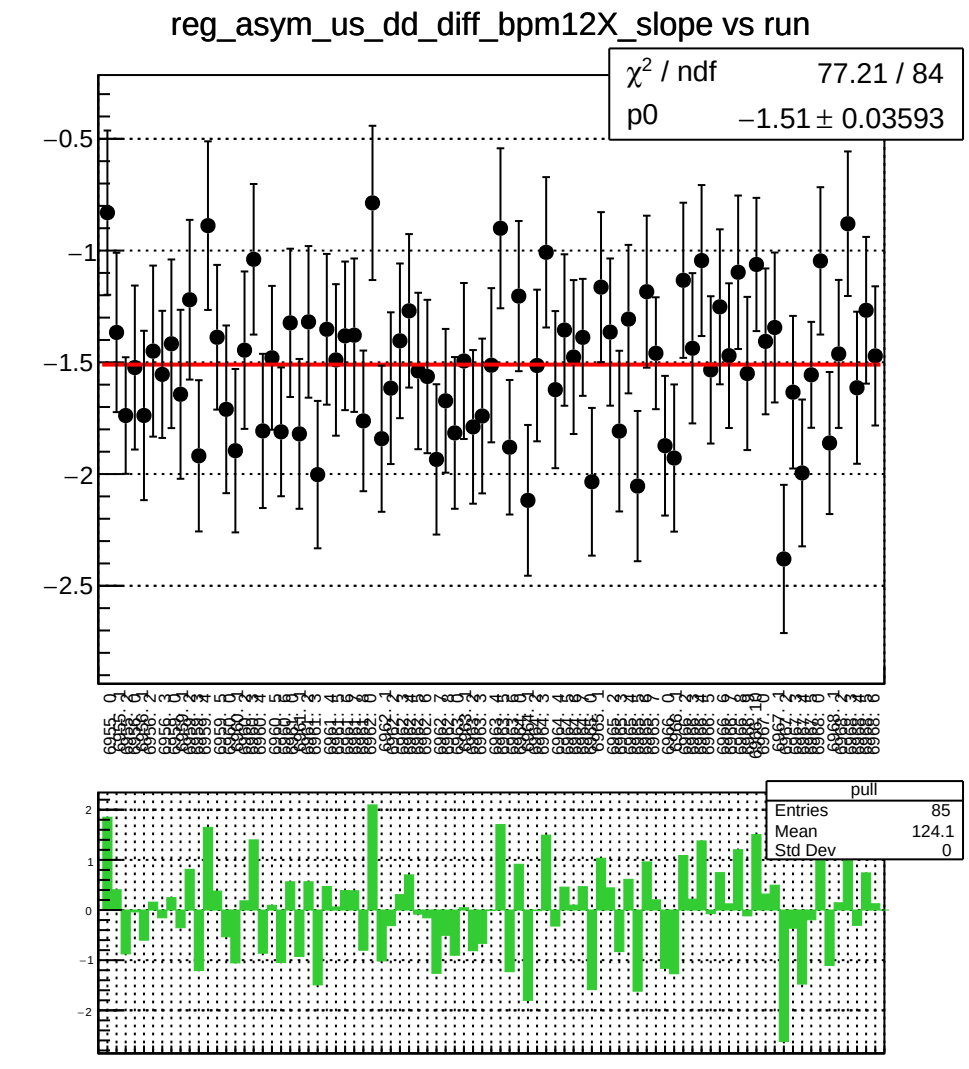

pull1D
Entries 85
Mean −0.003228
Std Dev 0.7743

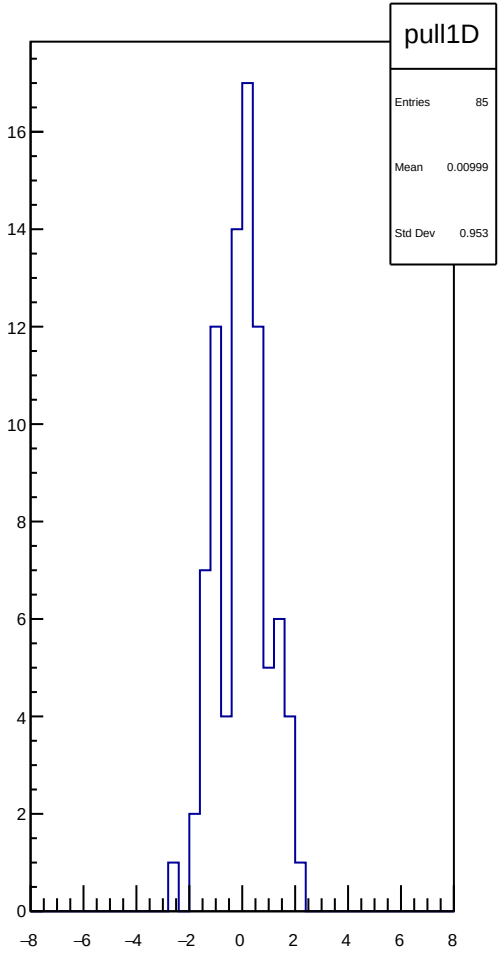

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.68 / 84
p0 −55.97 ± 1.126
pull
Entries 85
Mean −313.6
Std Dev 0

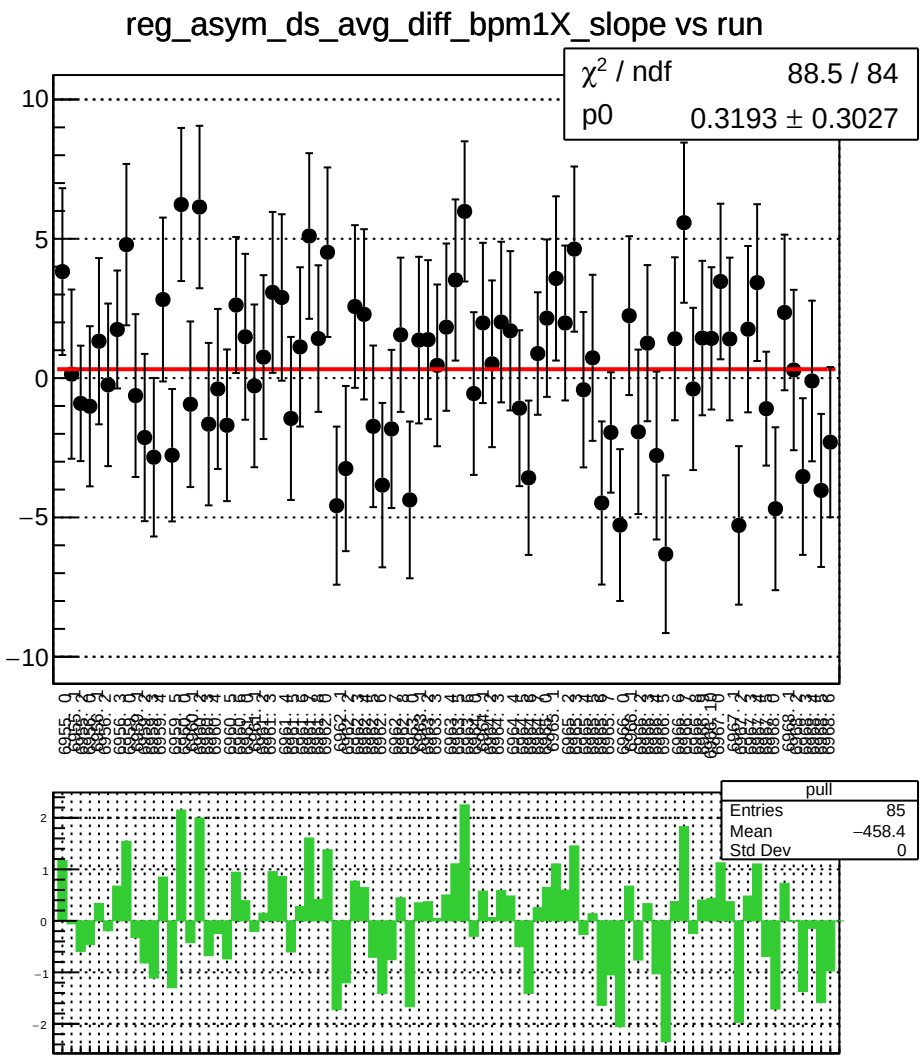

pull1D
Entries 85
Mean 0.006588
Std Dev 0.7489

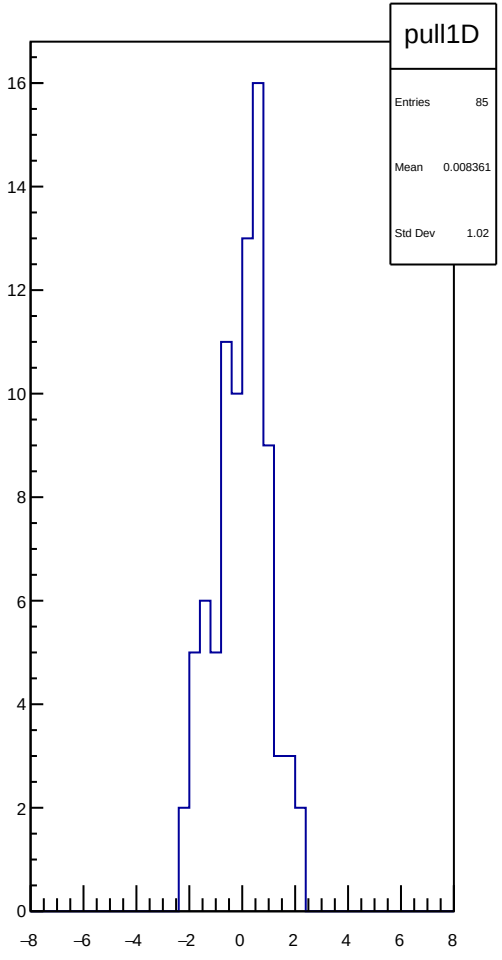

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.45 / 84
p0 1.783 ± 0.9444
pull
Entries 85
Mean 3177
Std Dev 0

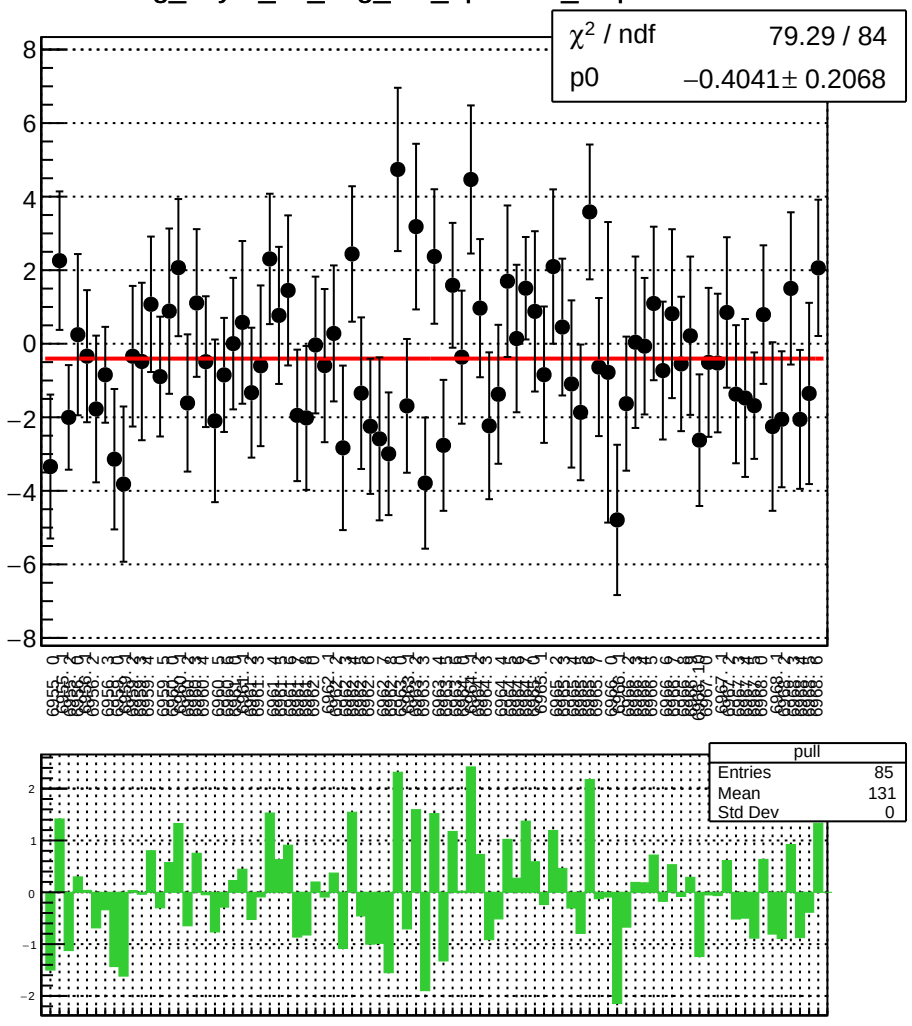

pull1D
Entries 85
Mean 0.0008165
Std Dev 0.778

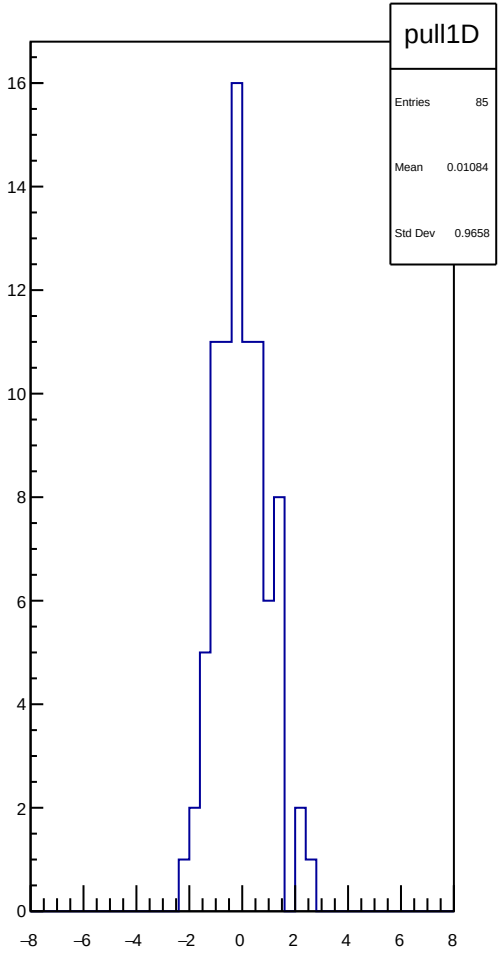

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 77.21 / 84
p0 −1.51 ± 0.03593
−0.5
−1
−1.5
−2
−2.5
pull
Entries 85
Mean 124.1
Std Dev 0
2
1
0
−1
−2

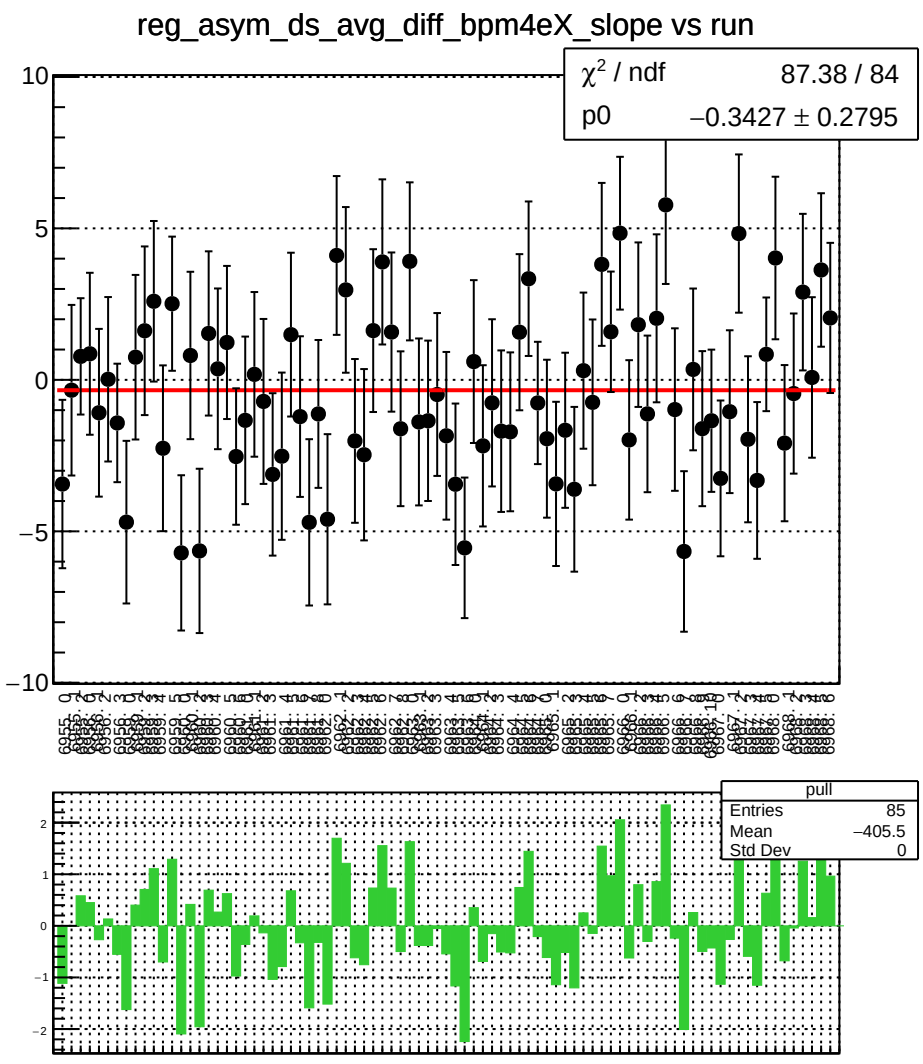

pull1D
Entries 85
Mean 0.00999
Std Dev 0.953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

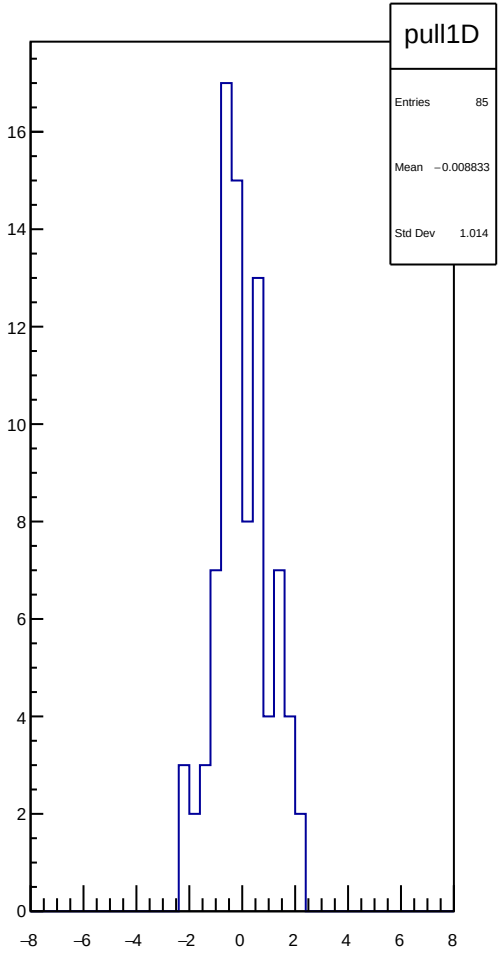

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 88.5 / 84
p0 0.3193 ± 0.3027
pull
Entries 85
Mean −458.4
Std Dev 0

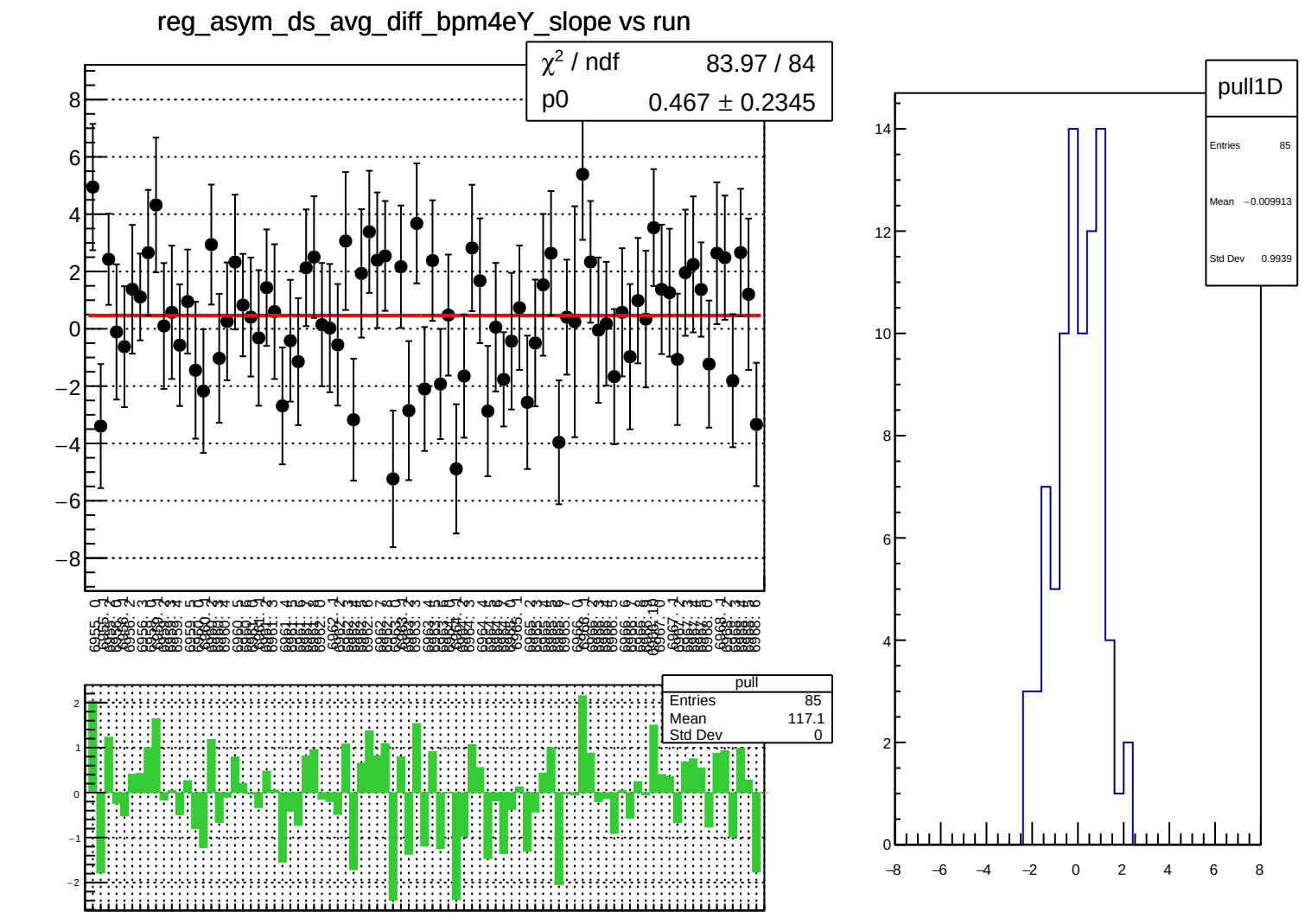

pull1D
Entries 85
Mean 0.008361
Std Dev 1.02

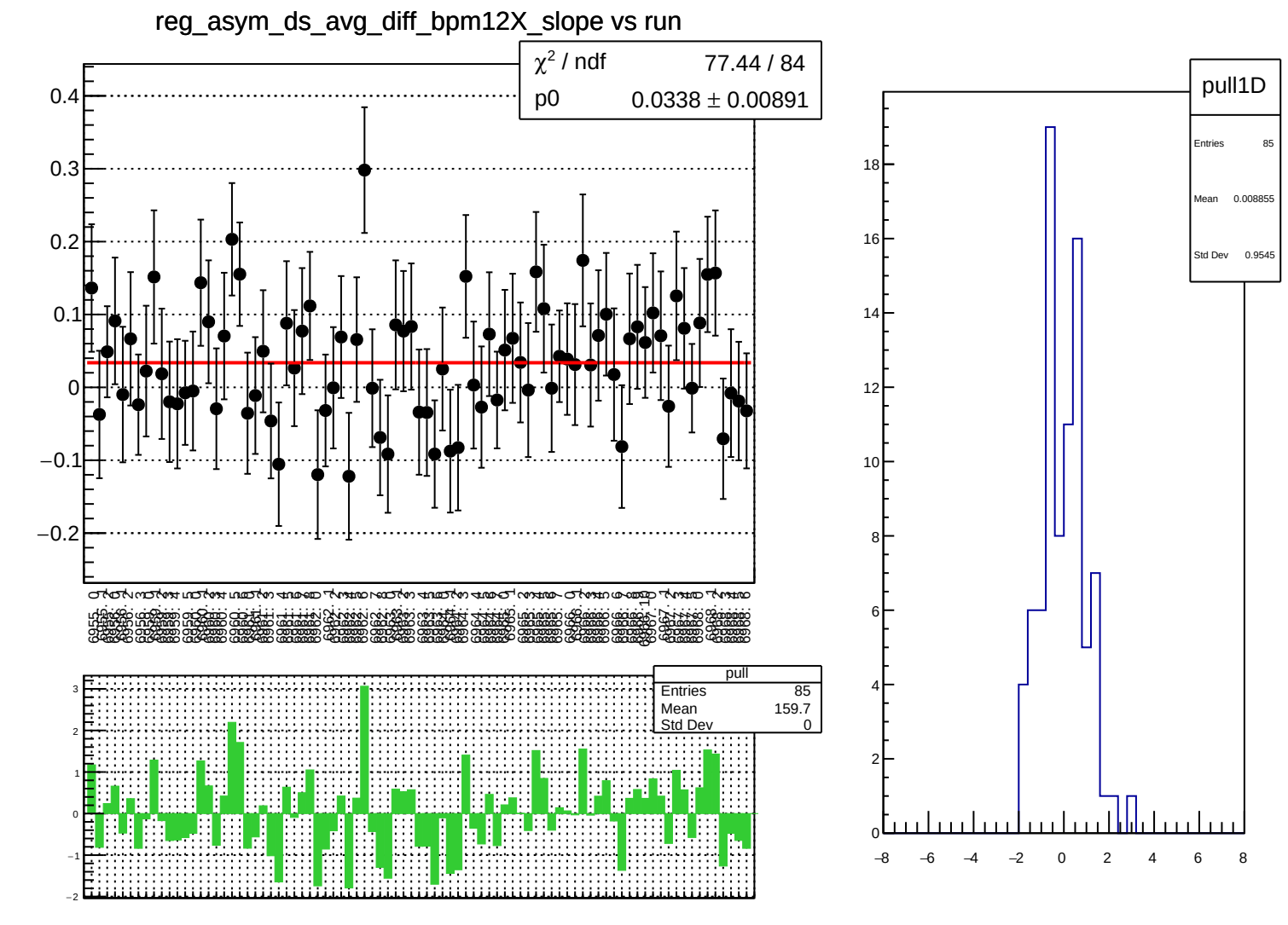

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 79.29 / 84
p0 −0.4041± 0.2068
pull
Entries 85
Mean 131
Std Dev 0

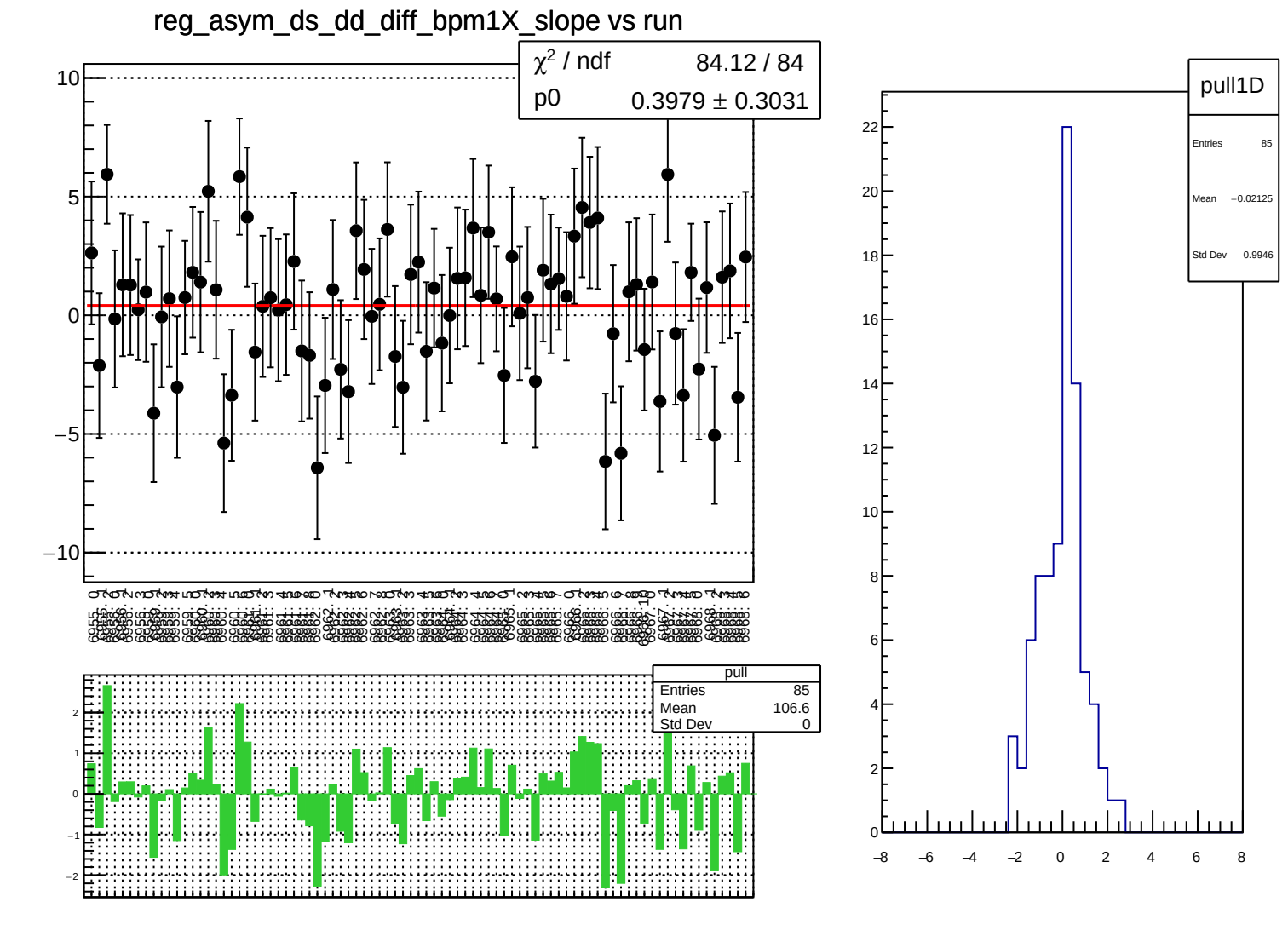

pull1D
Entries 85
Mean 0.01084
Std Dev 0.9658

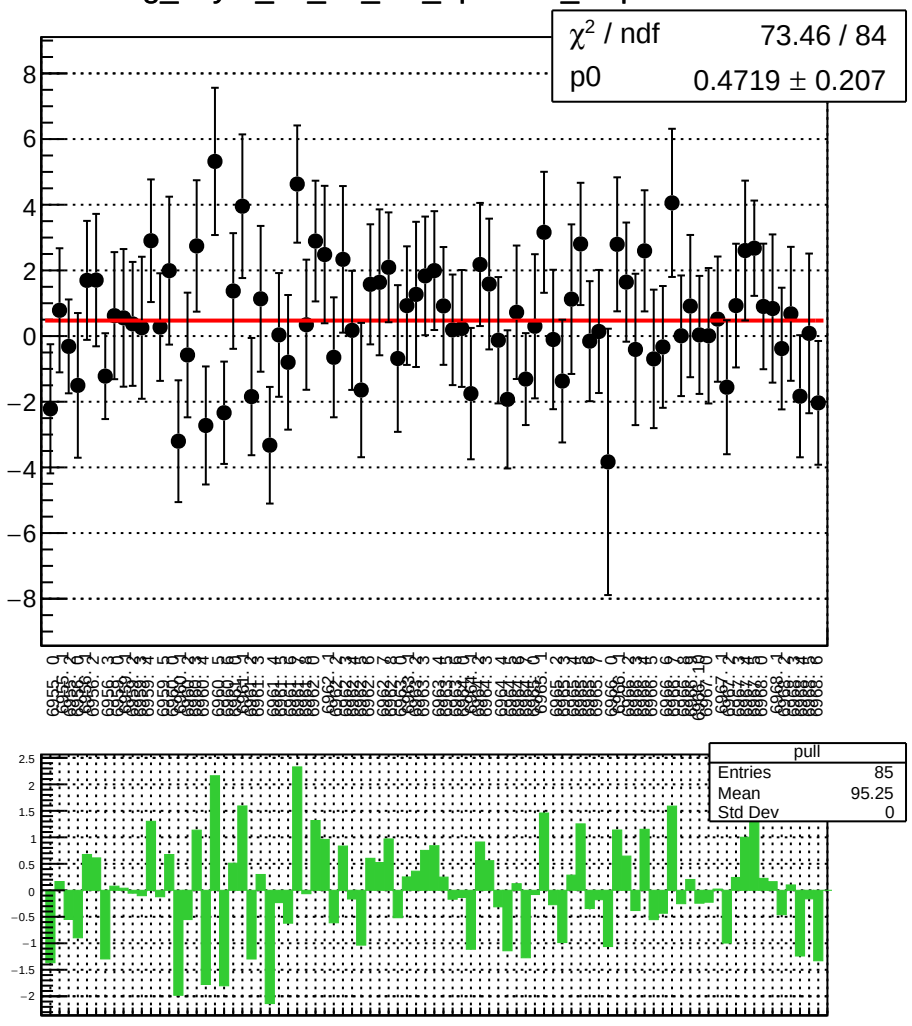

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 87.38 / 84
p0 −0.3427 ± 0.2795
pull
Entries 85
Mean −405.5
Std Dev 0

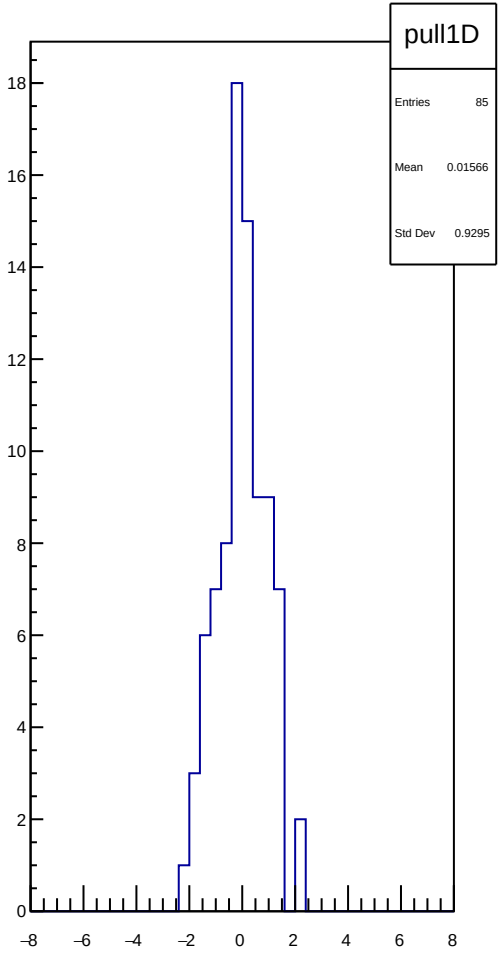

pull1D
Entries 85
Mean −0.008833
Std Dev 1.014

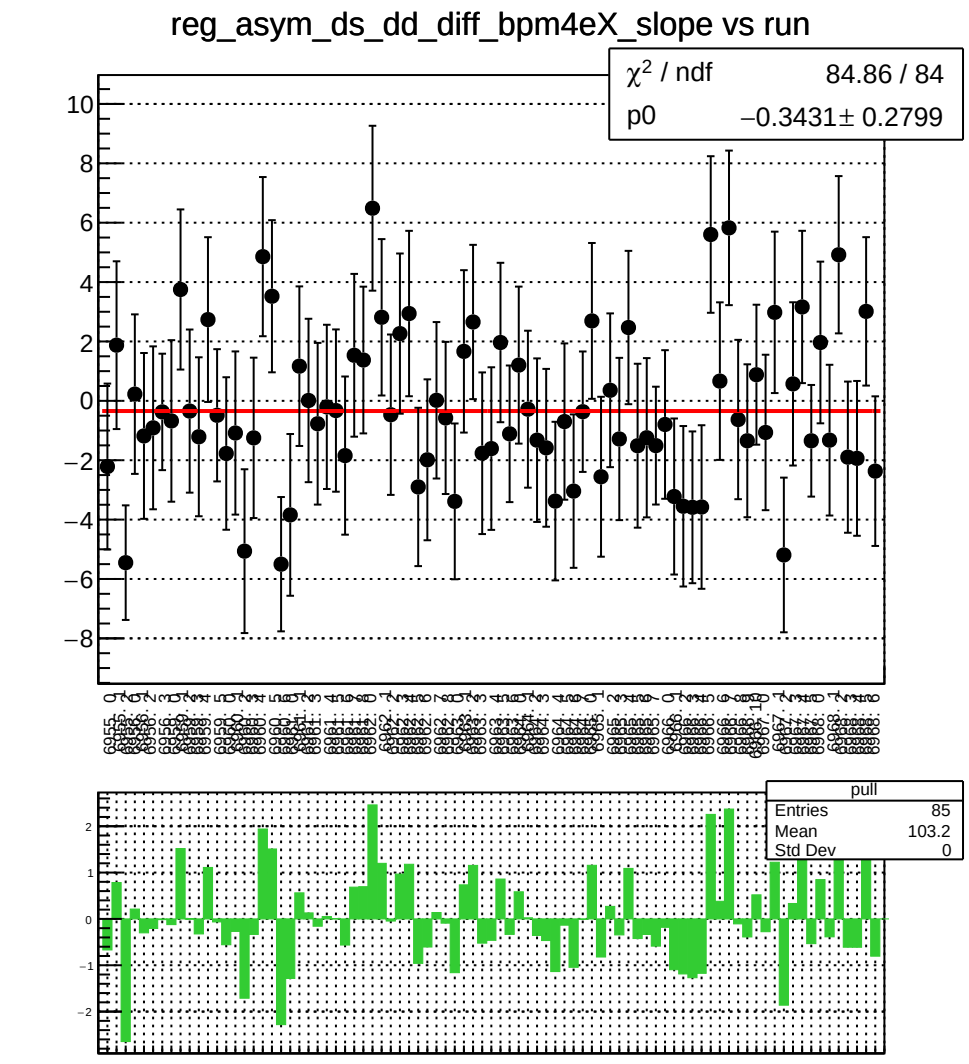

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 83.97 / 84
p0 0.467 ± 0.2345
pull
Entries 85
Mean 117.1
Std Dev 0
pull1D
Entries 85
Mean −0.009913
Std Dev 0.9939

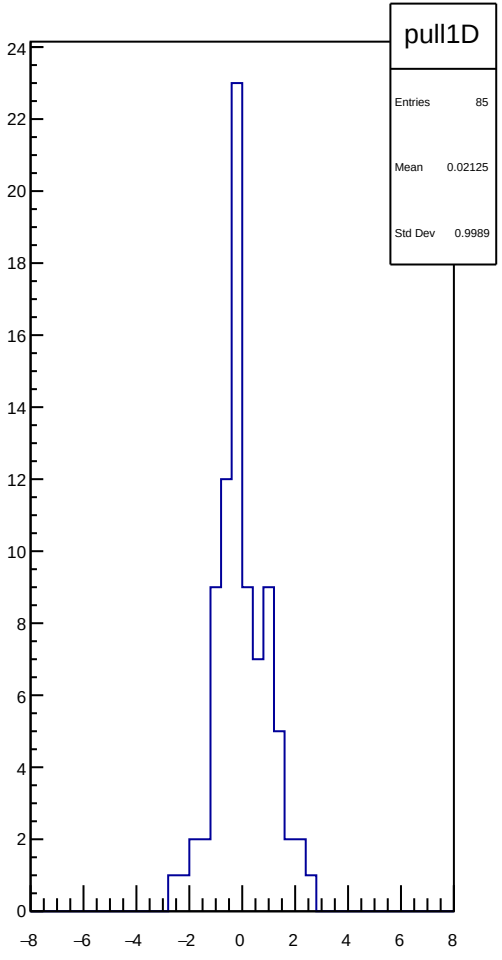

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 77.44 / 84
p0 0.0338 ± 0.00891
pull
Entries 85
Mean 159.7
Std Dev 0
pull1D
Entries 85
Mean 0.008855
Std Dev 0.9545

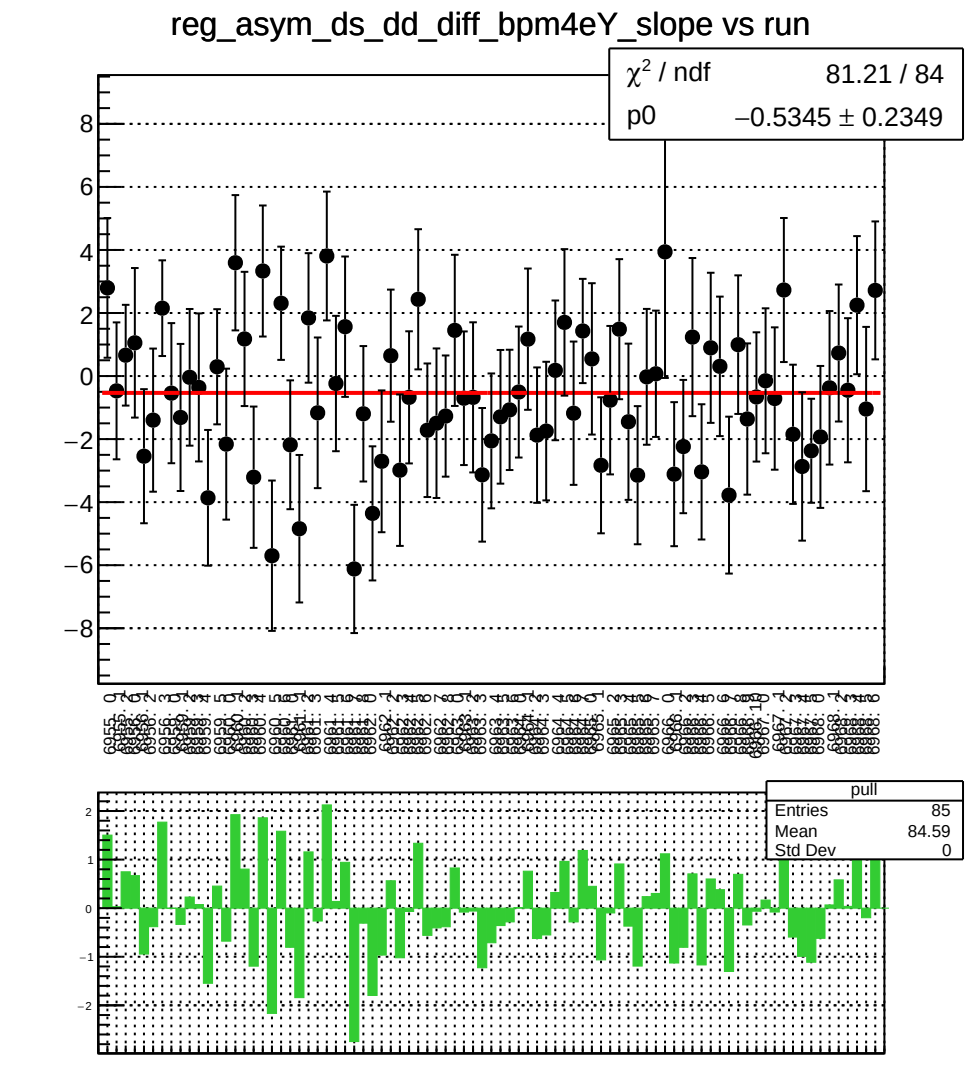

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 84.12 / 84
p0 0.3979 ± 0.3031
pull
Entries 85
Mean 106.6
Std Dev 0
pull1D
Entries 85
Mean −0.02125
Std Dev 0.9946

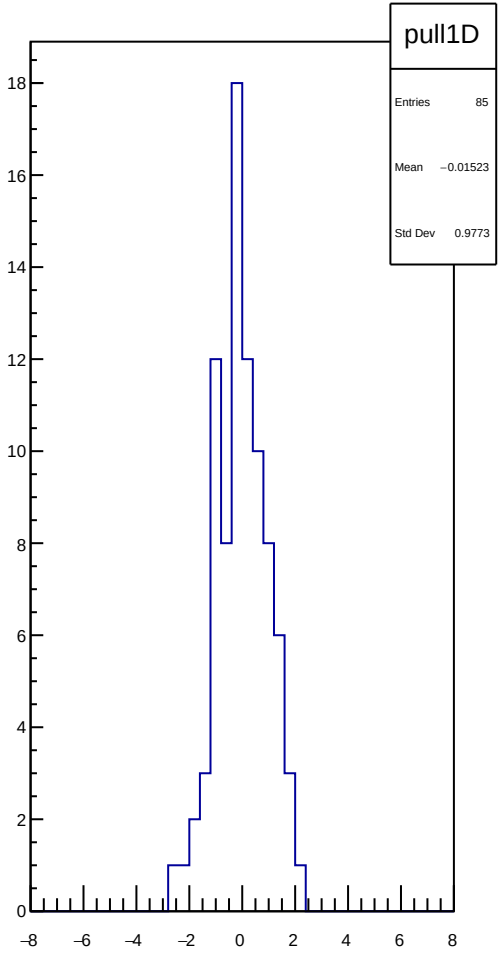

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.46 / 84
p0 0.4719 ± 0.207
pull
Entries 85
Mean 95.25
Std Dev 0

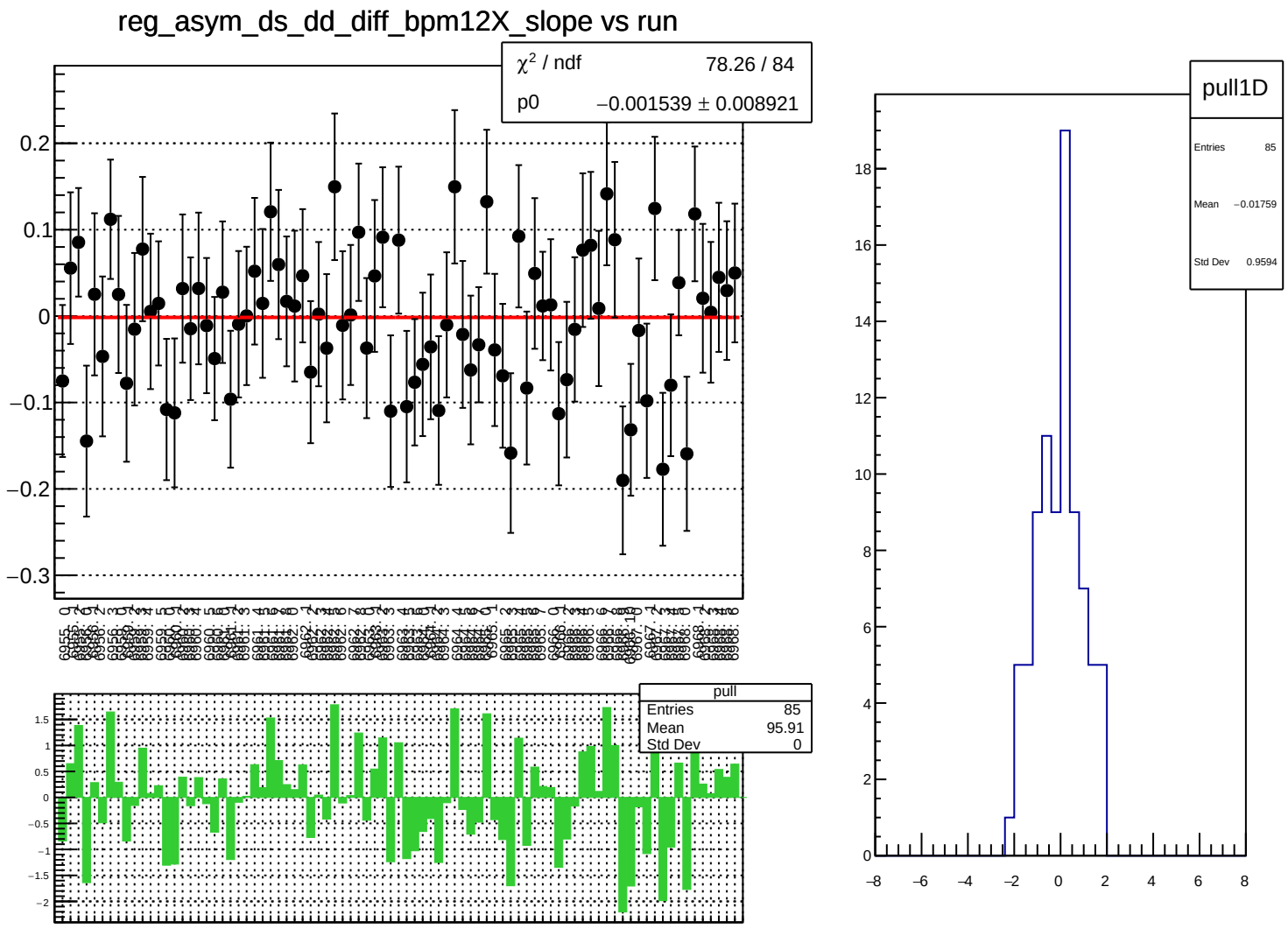

pull1D
Entries 85
Mean 0.01566
Std Dev 0.9295

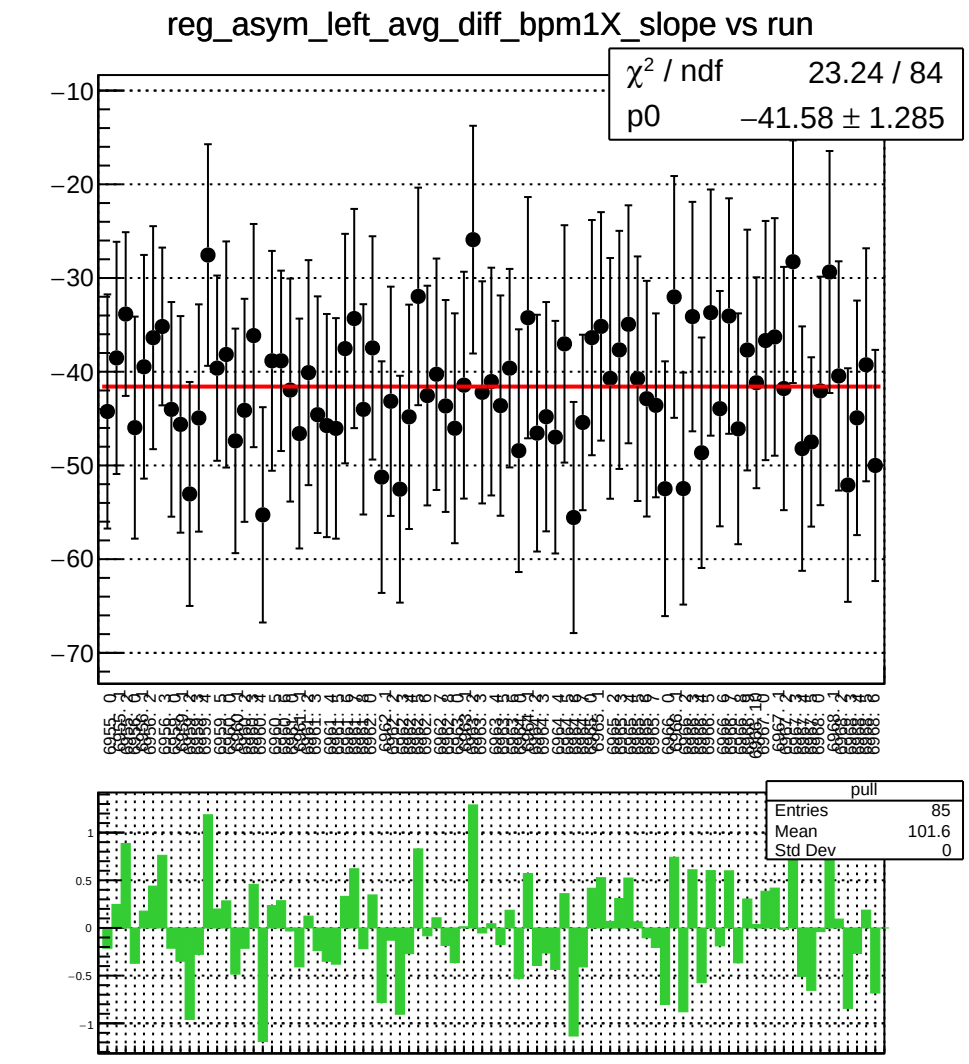

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.86 / 84
p0 −0.3431± 0.2799
pull
Entries 85
Mean 103.2
Std Dev 0

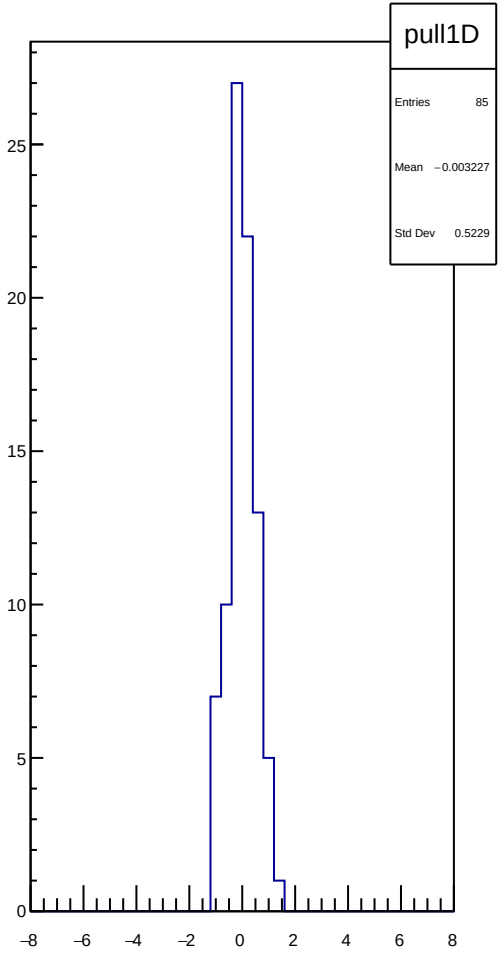

pull1D
Entries 85
Mean 0.02125
Std Dev 0.9989

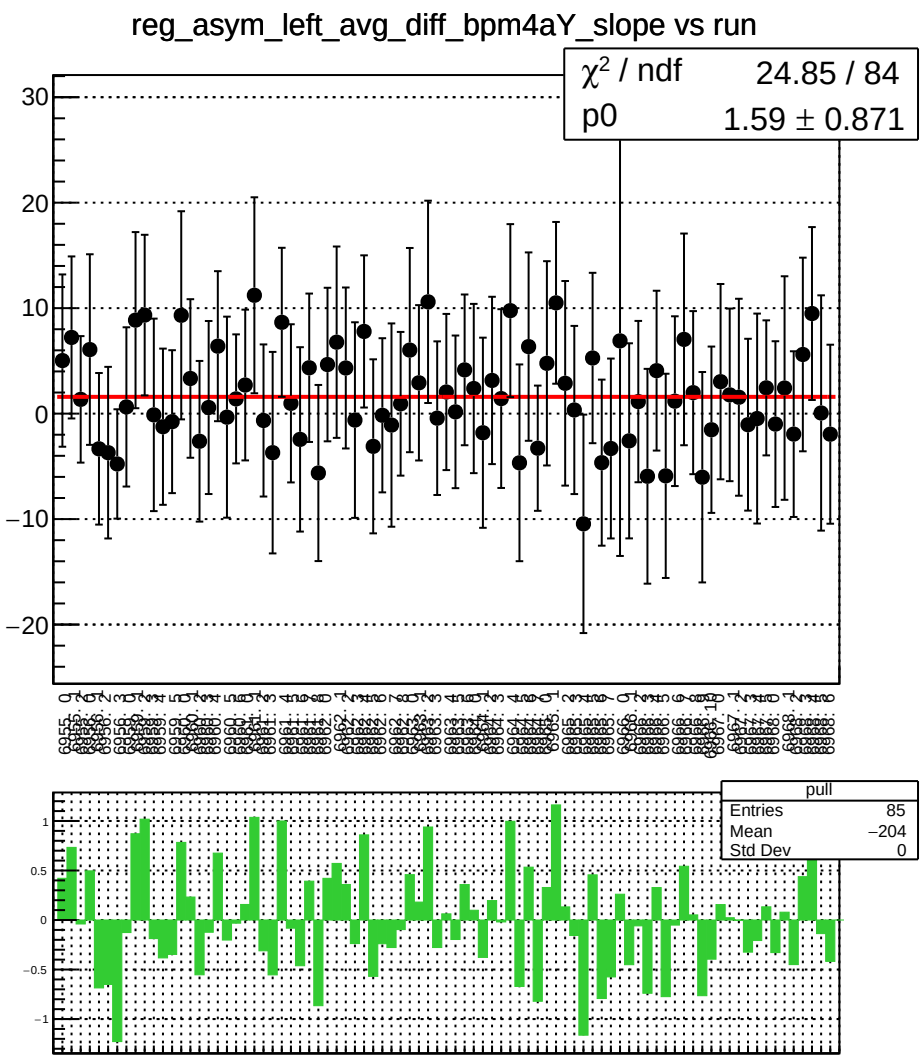

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.21 / 84
p0 −0.5345 ± 0.2349
pull
Entries 85
Mean 84.59
Std Dev 0

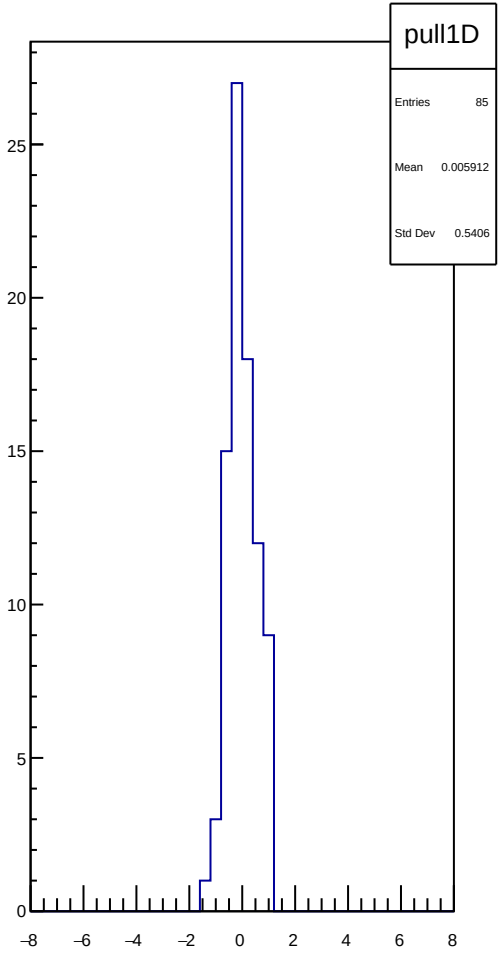

pull1D
Entries 85
Mean −0.01523
Std Dev 0.9773

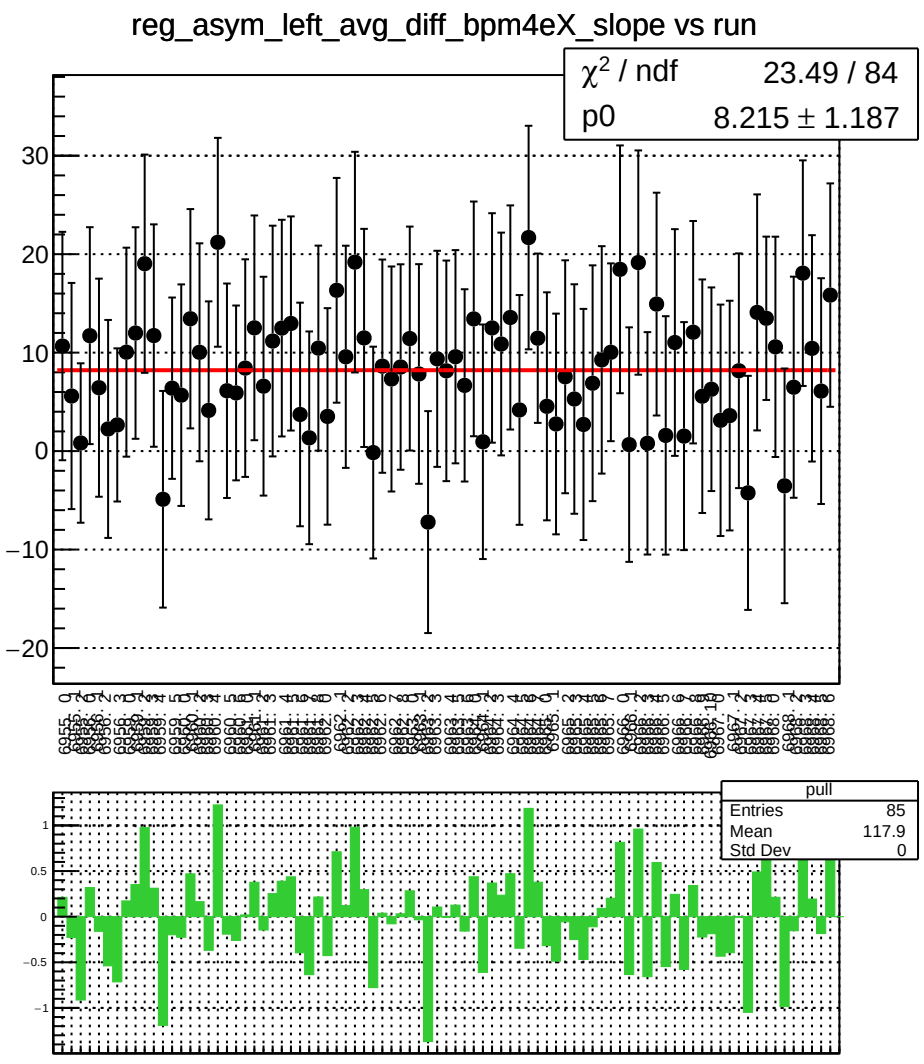

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 78.26 / 84
p0 −0.001539 ± 0.008921
pull
Entries 85
Mean 95.91
Std Dev 0
pull1D
Entries 85
Mean −0.01759
Std Dev 0.9594

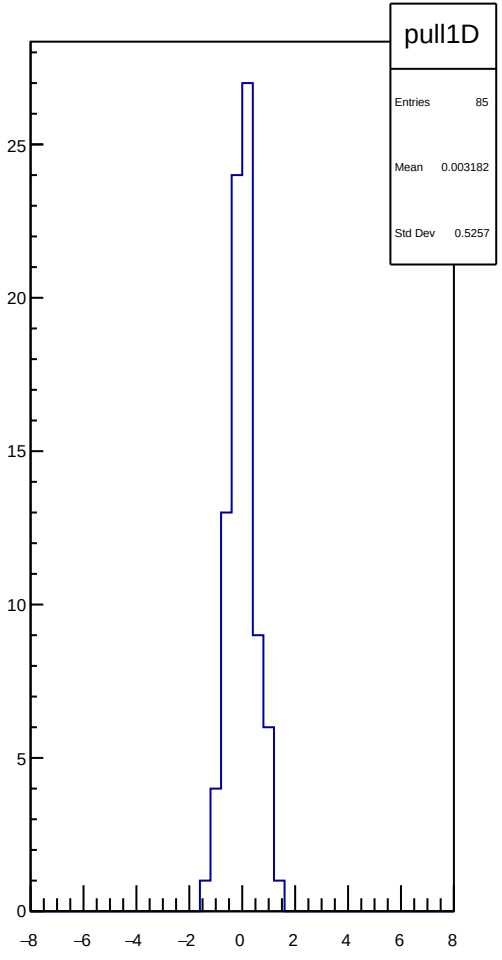

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 23.24 / 84
p0 −41.58 ± 1.285
pull
Entries 85
Mean 101.6
Std Dev 0

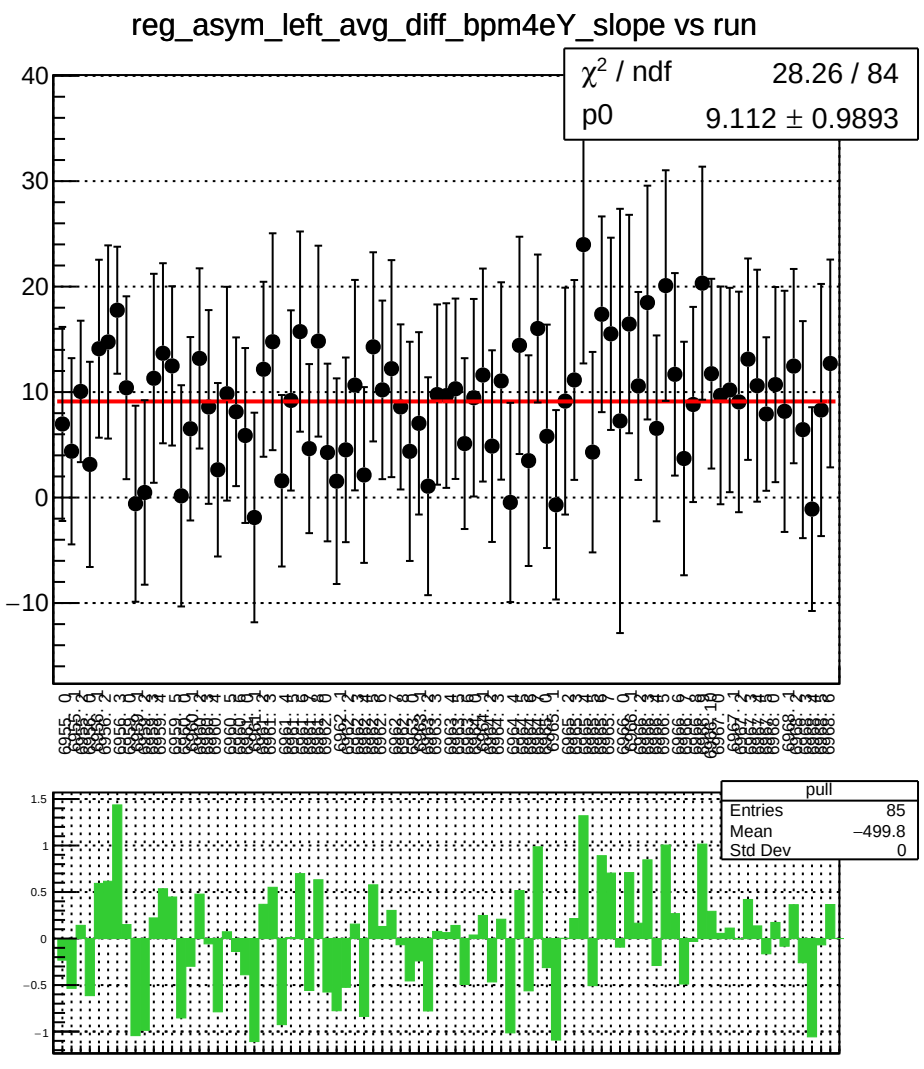

pull1D
Entries 85
Mean −0.003227
Std Dev 0.5229

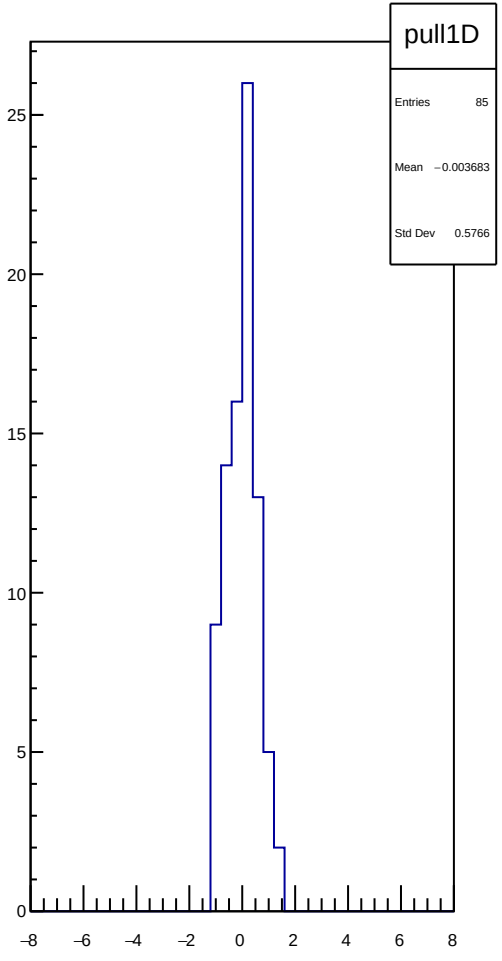

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.85 / 84
p0 1.59 ± 0.871
pull
Entries 85
Mean −204
Std Dev 0

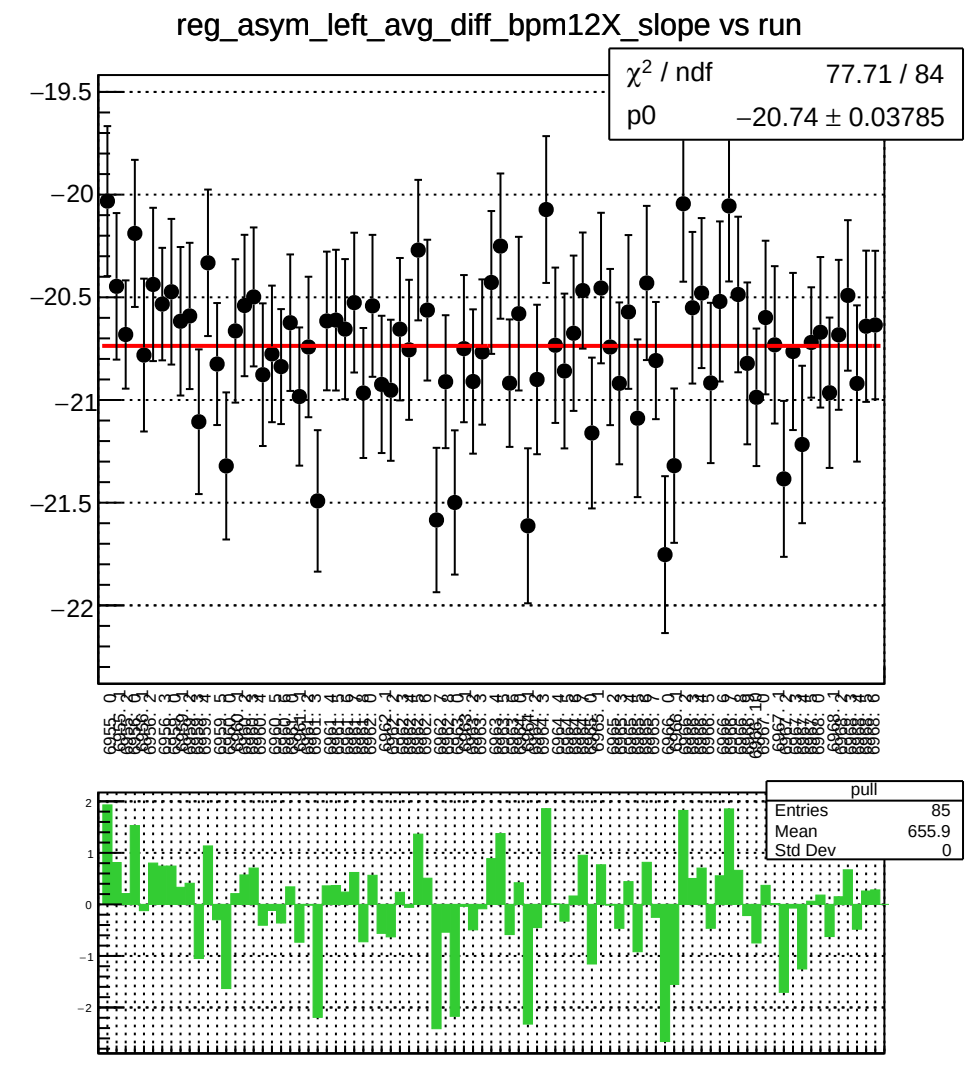

pull1D
Entries 85
Mean 0.005912
Std Dev 0.5406

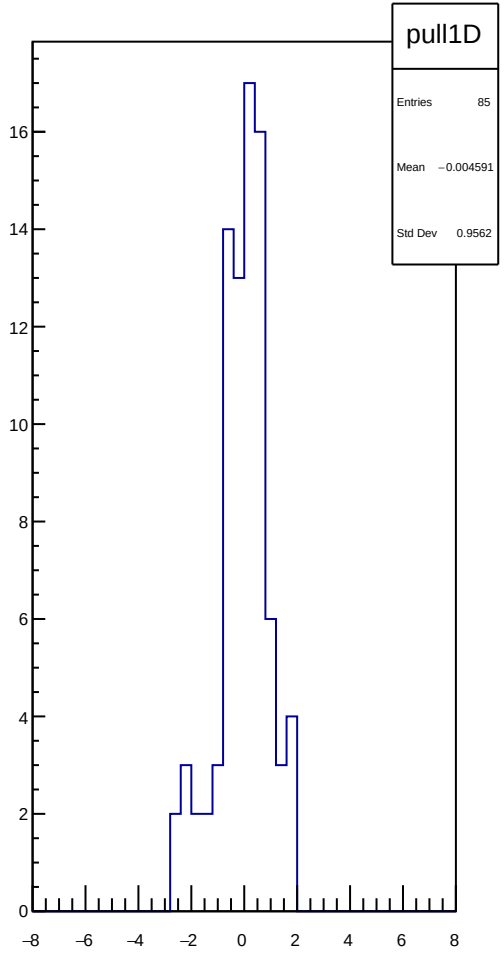

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.49 / 84
p0 8.215 ± 1.187
pull
Entries 85
Mean 117.9
Std Dev 0

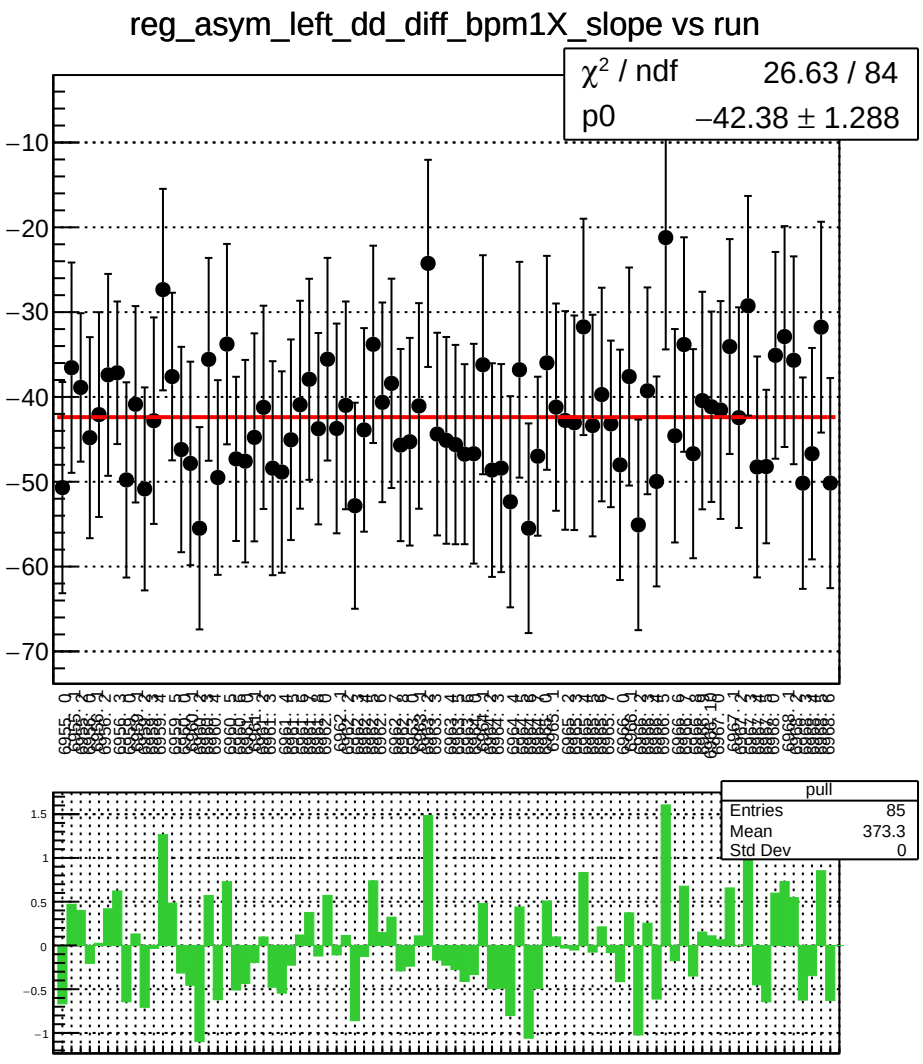

pull1D
Entries 85
Mean 0.003182
Std Dev 0.5257

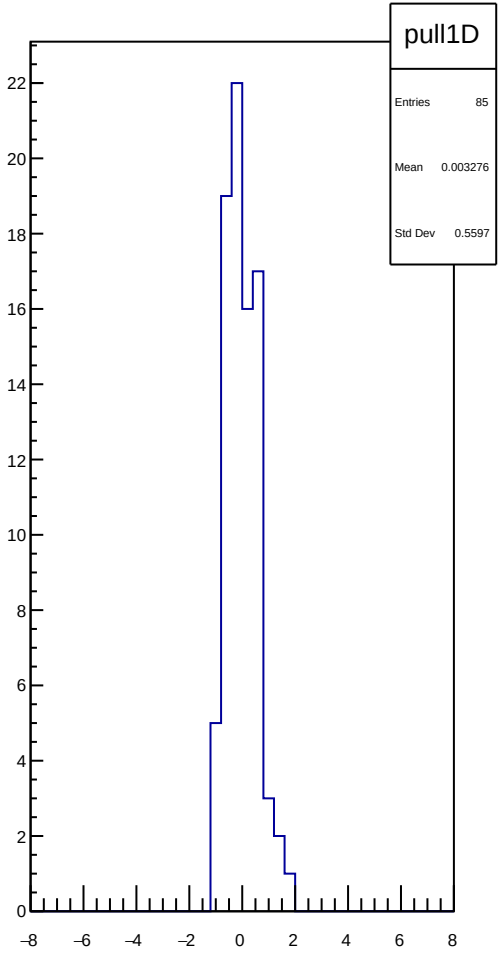

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.26 / 84
p0 9.112 ± 0.9893
pull
Entries 85
Mean −499.8
Std Dev 0

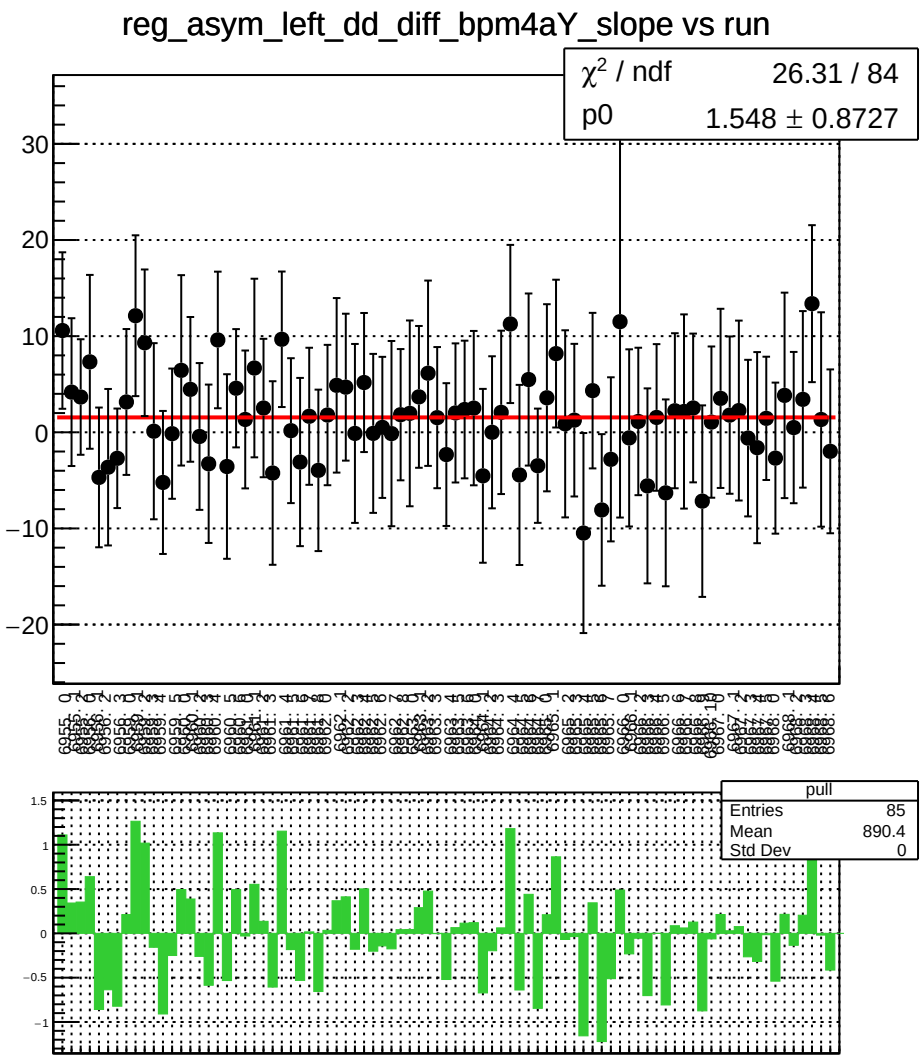

pull1D
Entries 85
Mean −0.003683
Std Dev 0.5766

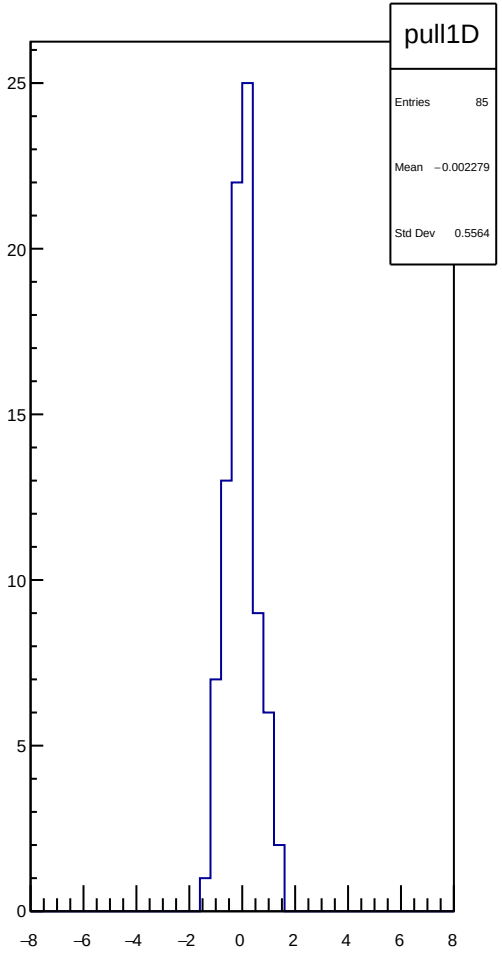

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 77.71 / 84
p0 −20.74 ± 0.03785
−19.5
−20
−20.5
−21
−21.5
−22
pull
Entries 85
Mean 655.9
Std Dev 0
2
1
0
−1
−2

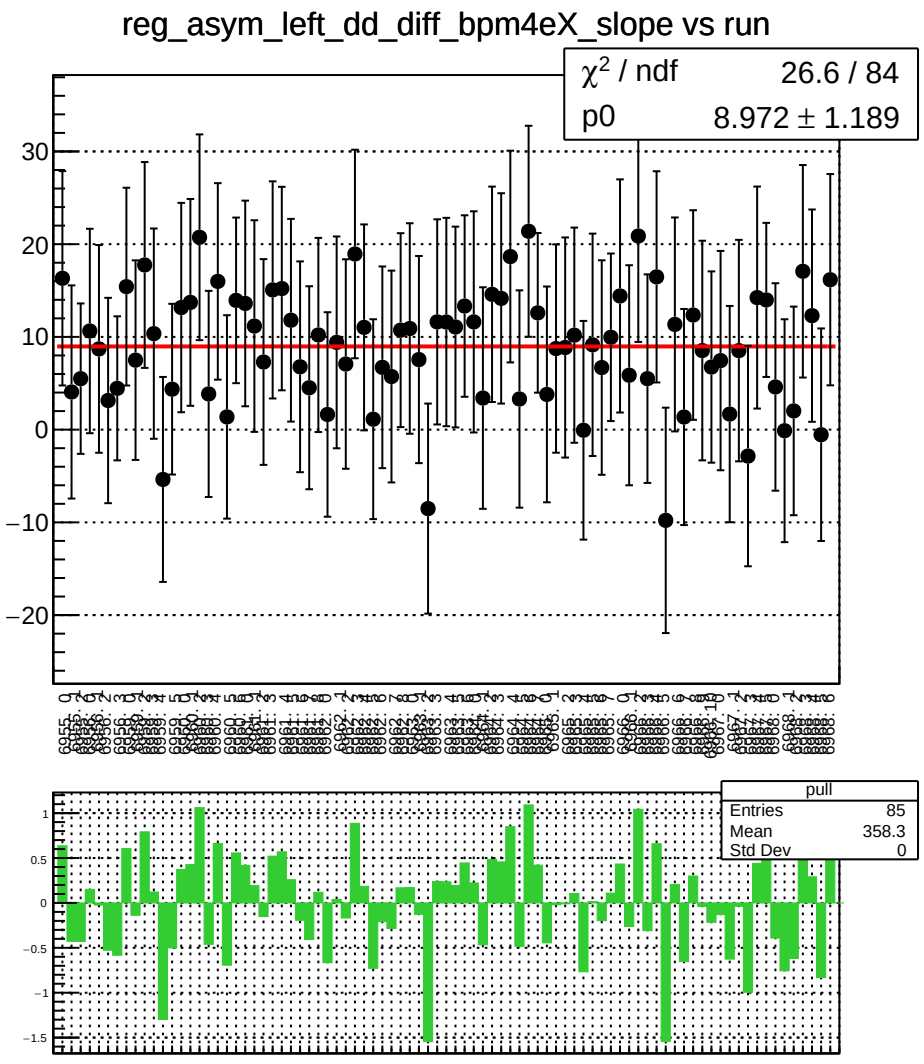

pull1D
Entries 85
Mean −0.004591
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

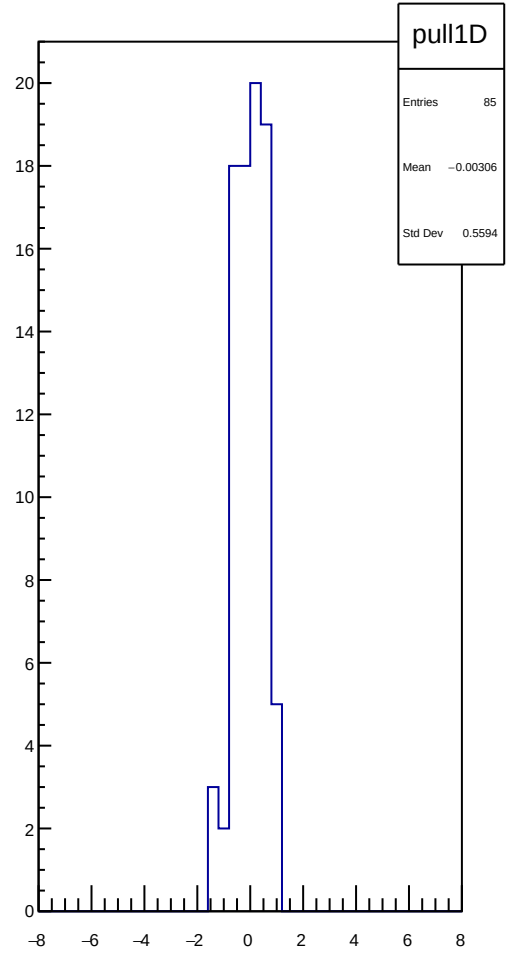

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 26.63 / 84
p0 −42.38 ± 1.288
pull
Entries 85
Mean 373.3
Std Dev 0

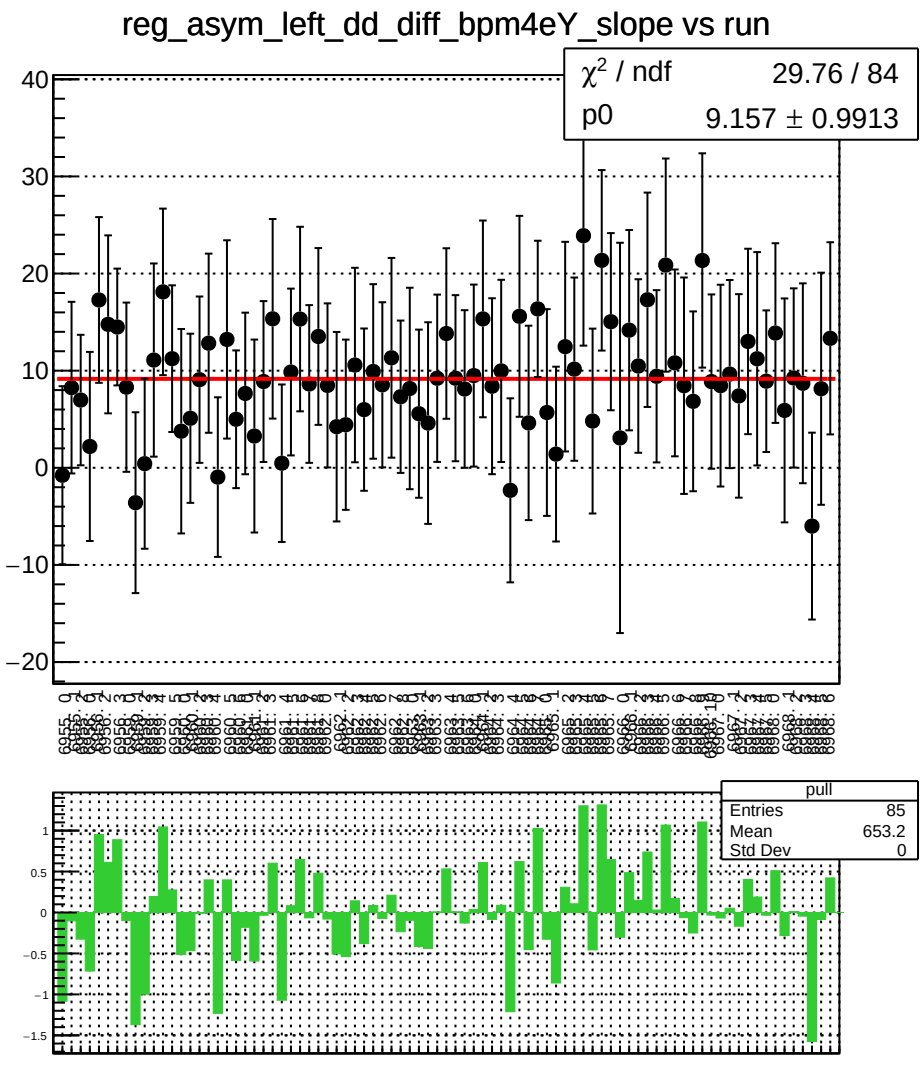

pull1D
Entries 85
Mean 0.003276
Std Dev 0.5597

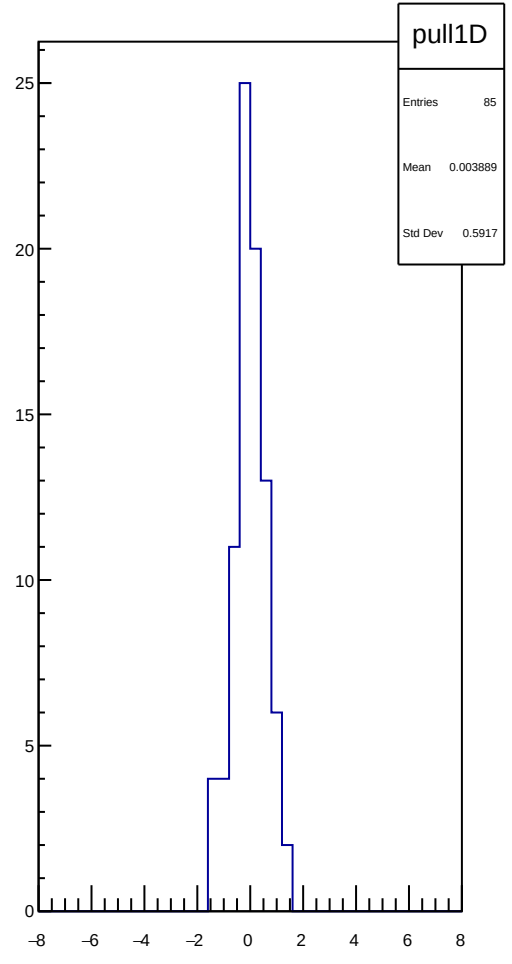

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.31 / 84
p0 1.548 ± 0.8727
pull
Entries 85
Mean 890.4
Std Dev 0

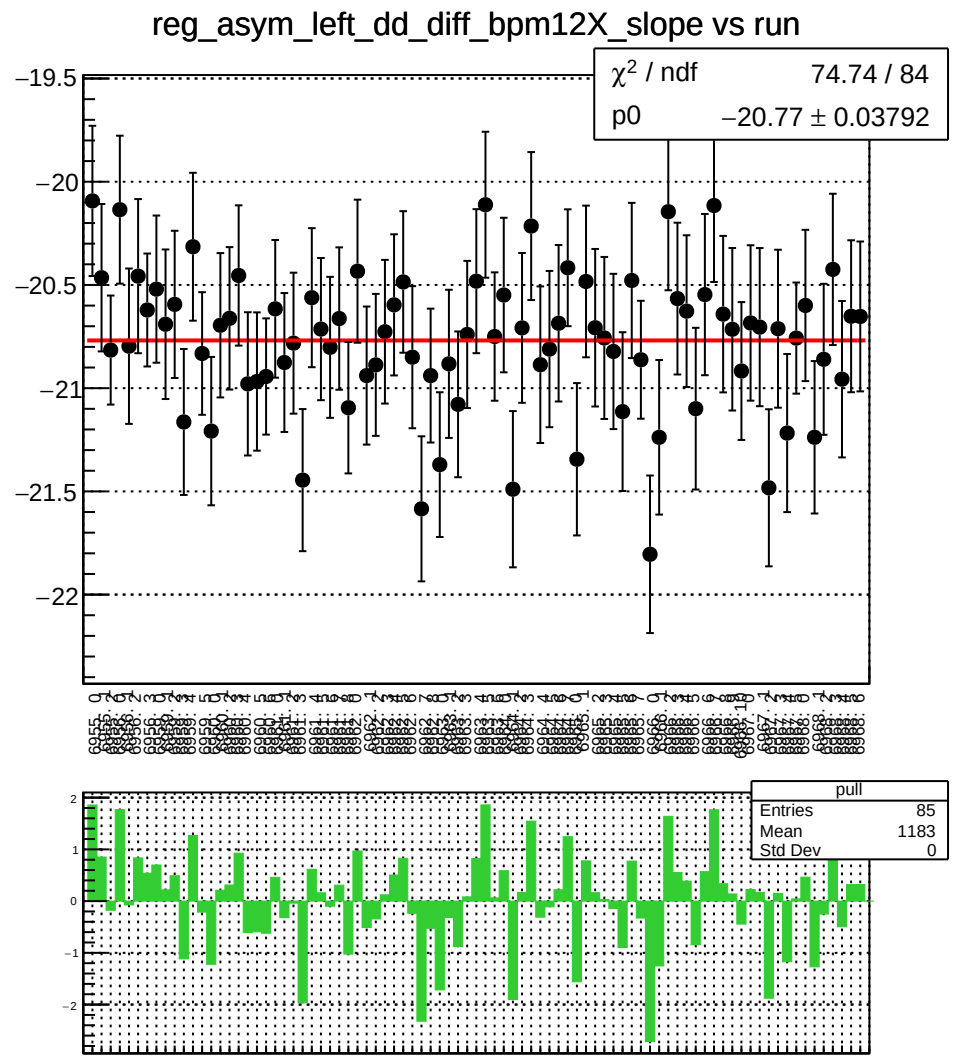

pull1D
Entries 85
Mean −0.002279
Std Dev 0.5564

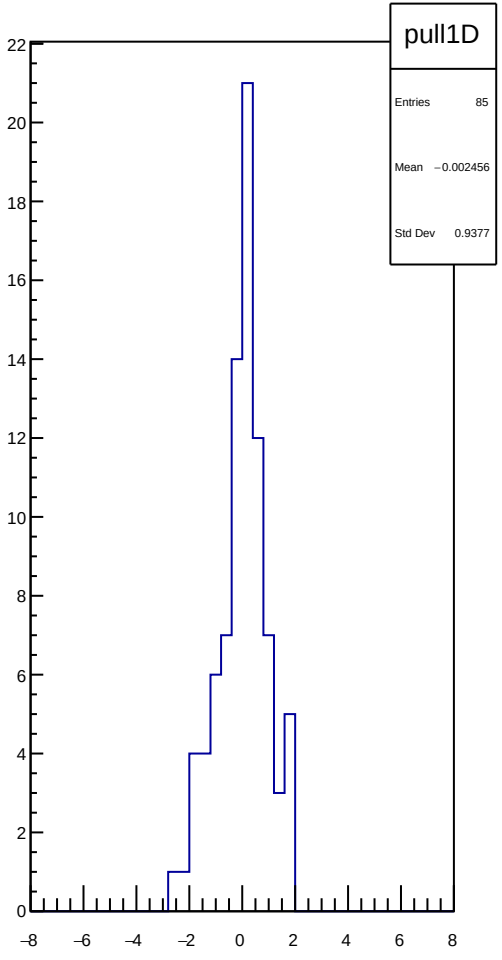

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.6 / 84
p0 8.972 ± 1.189
pull
Entries 85
Mean 358.3
Std Dev 0

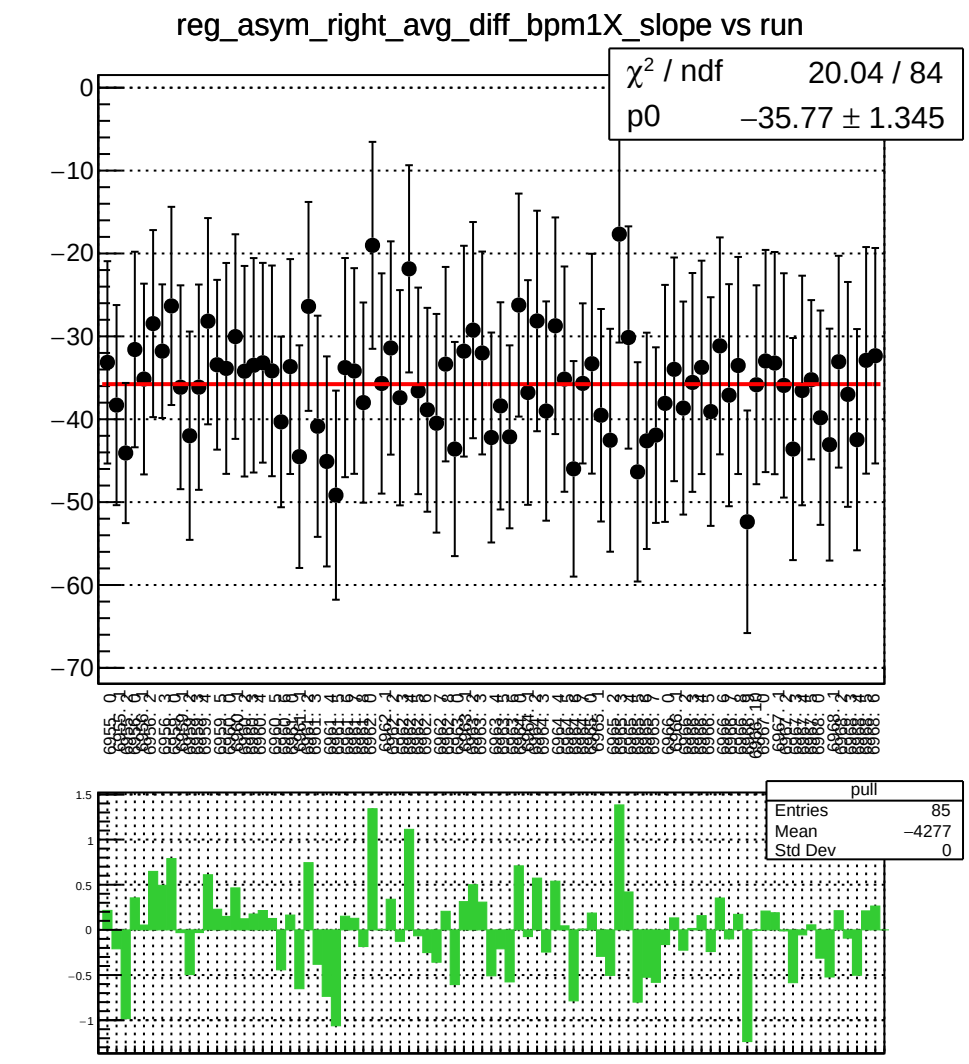

pull1D
Entries 85
Mean −0.00306
Std Dev 0.5594

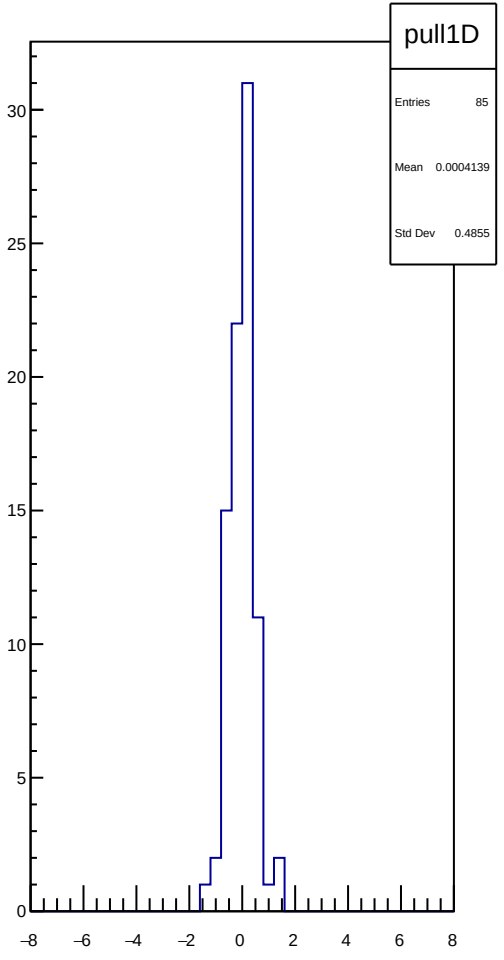

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.76 / 84
p0 9.157 ± 0.9913
pull
Entries 85
Mean 653.2
Std Dev 0

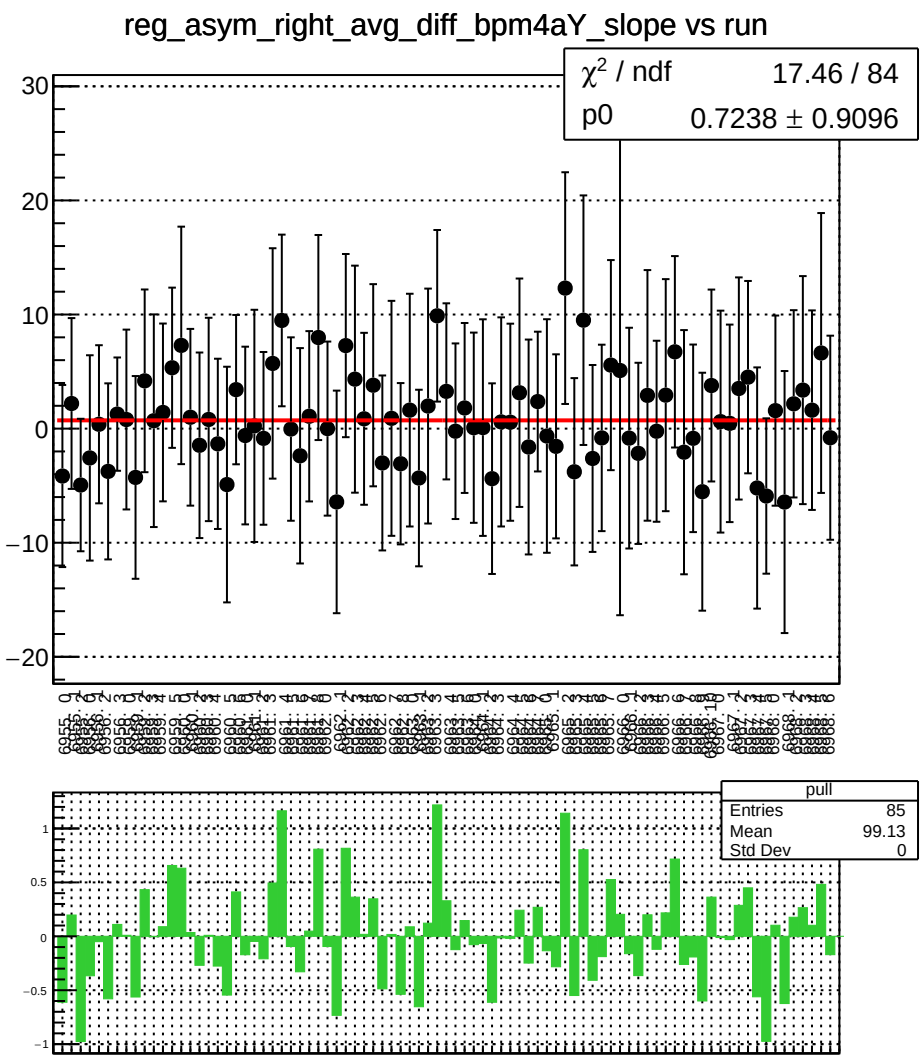

pull1D
Entries 85
Mean 0.003889
Std Dev 0.5917

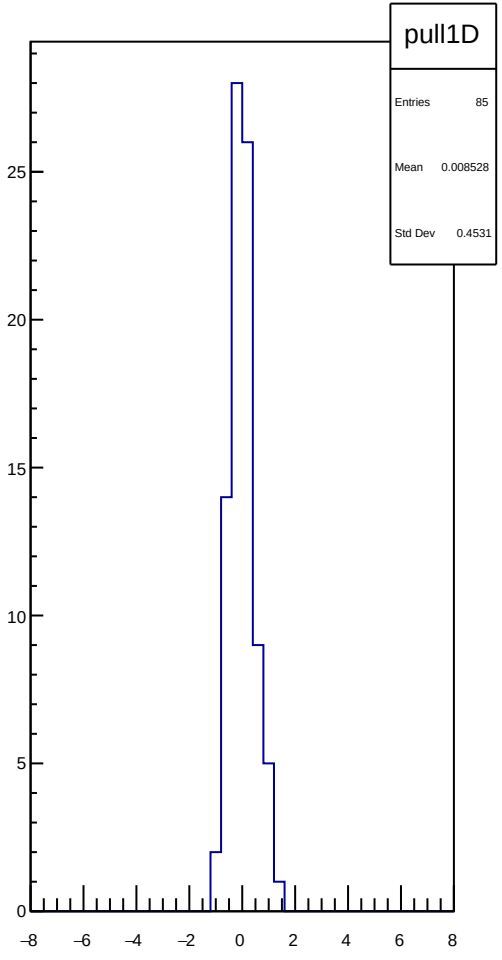

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 74.74 / 84
p0 −20.77 ± 0.03792
−19.5
−20
−20.5
−21
−21.5
−22
pull
Entries 85
Mean 1183
Std Dev 0
2
1
0
−1
−2

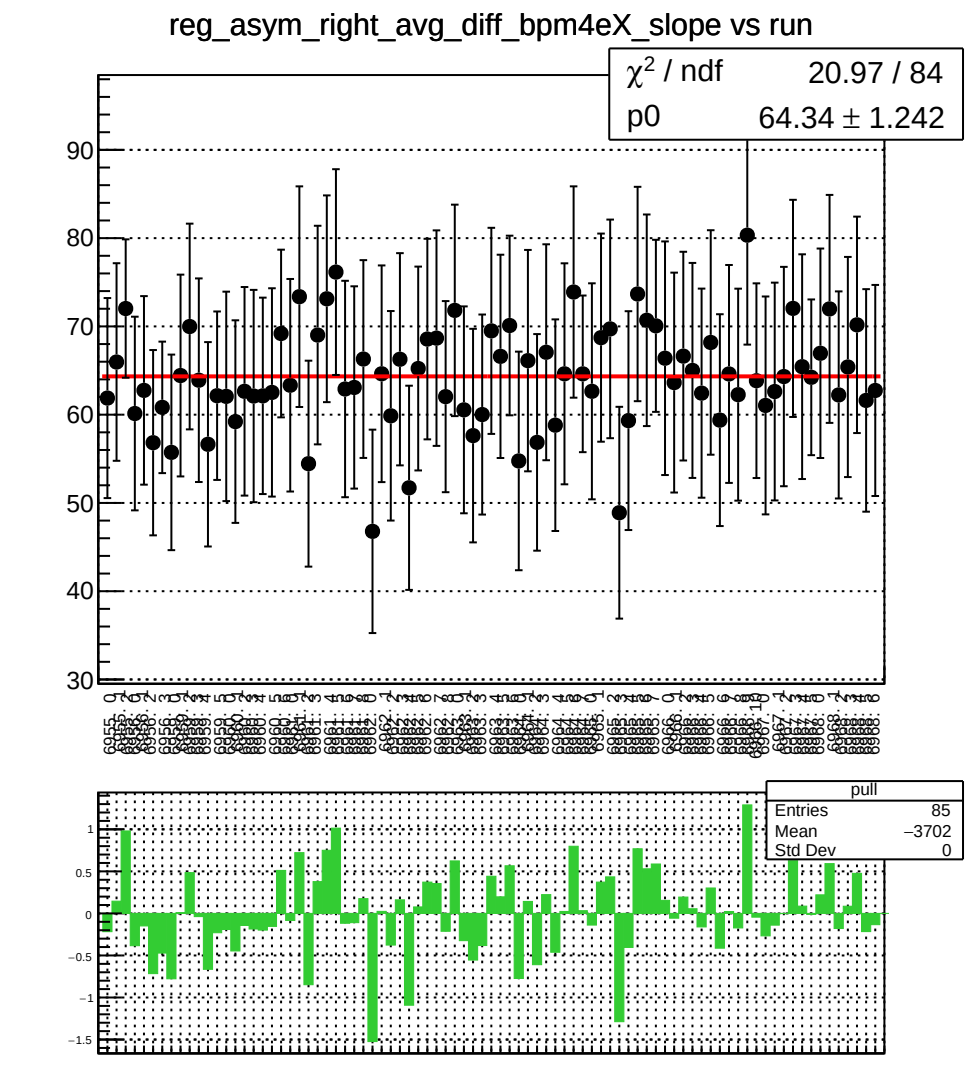

pull1D
Entries 85
Mean −0.002456
Std Dev 0.9377
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

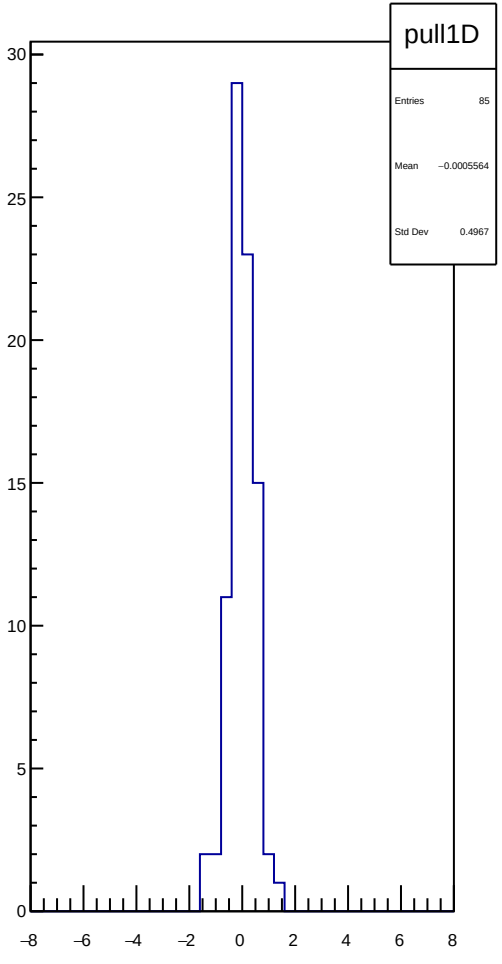

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 20.04 / 84
p0 −35.77 ± 1.345
pull
Entries 85
Mean −4277
Std Dev 0

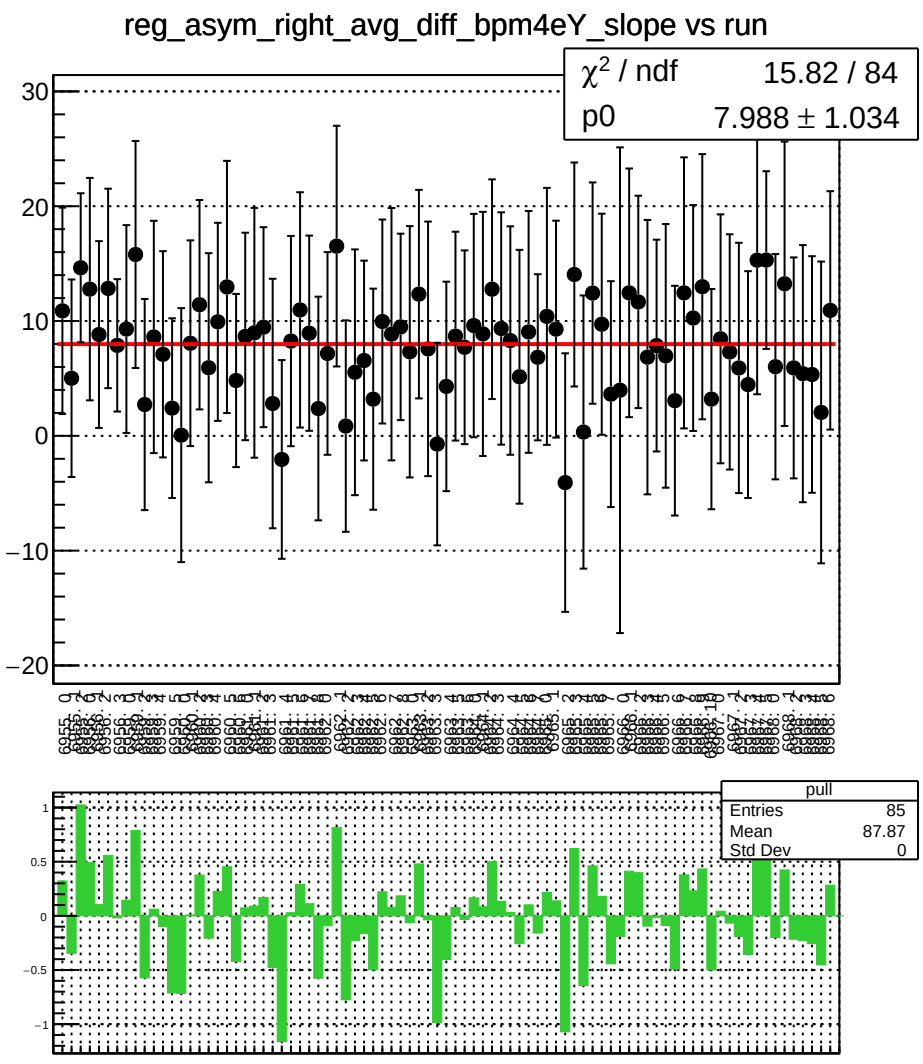

pull1D
Entries 85
Mean 0.0004139
Std Dev 0.4855

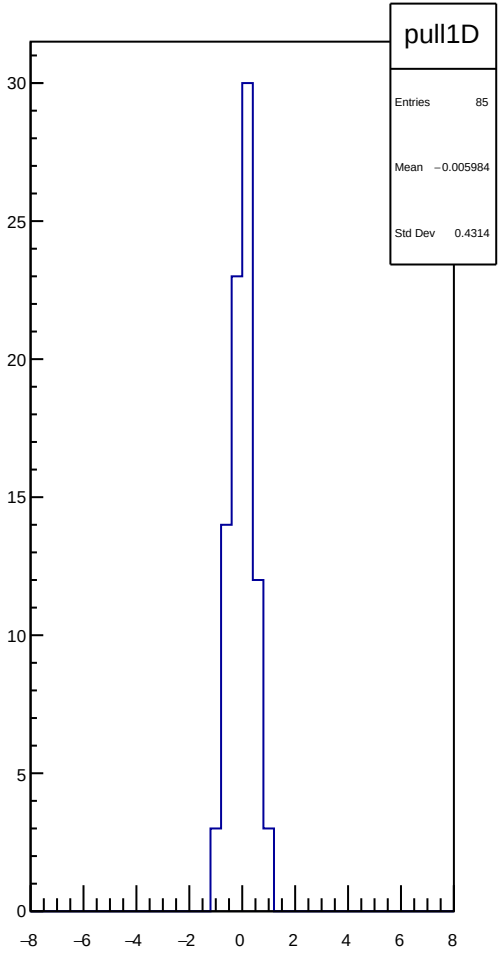

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.46 / 84
p0 0.7238 ± 0.9096
pull
Entries 85
Mean 99.13
Std Dev 0

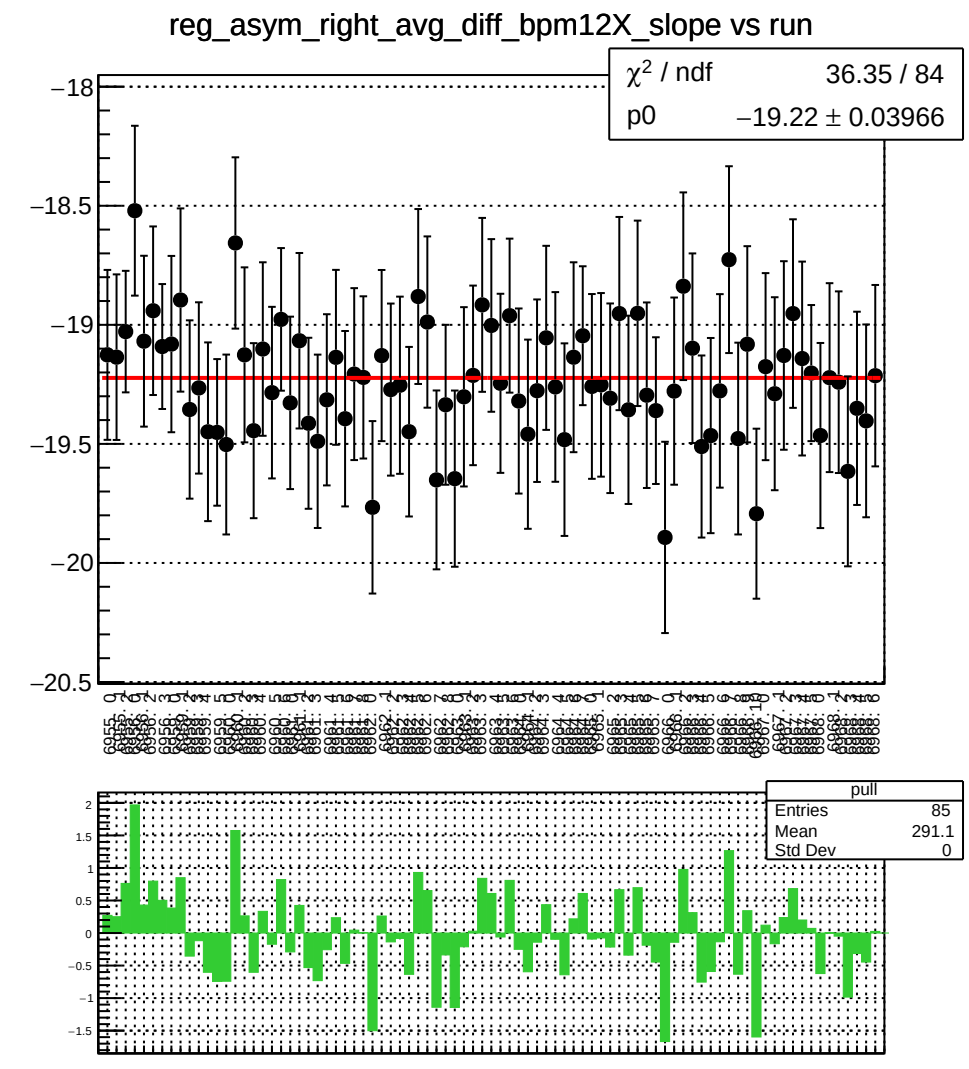

pull1D
Entries 85
Mean 0.008528
Std Dev 0.4531

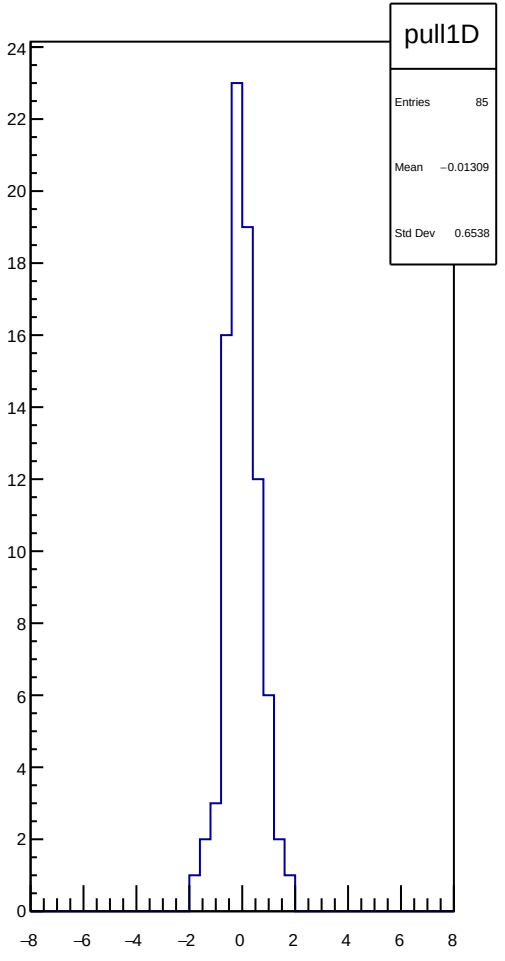

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.97 / 84
p0 64.34 ± 1.242
pull
Entries 85
Mean −3702
Std Dev 0

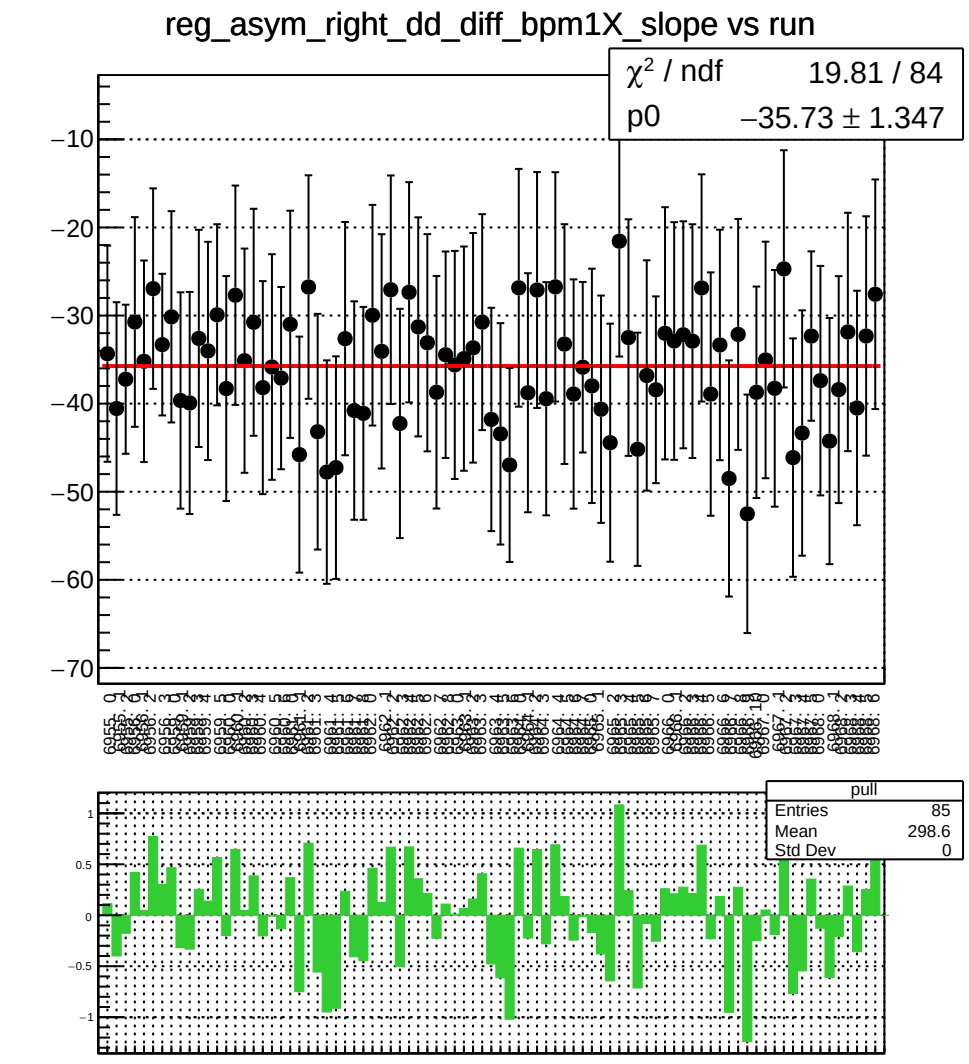

pull1D
Entries 85
Mean −0.0005564
Std Dev 0.4967

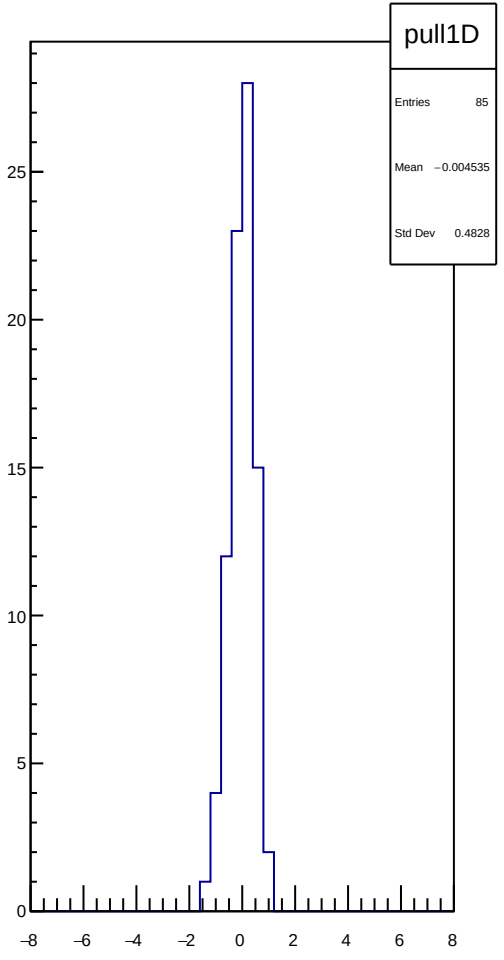

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.82 / 84
p0 7.988 ± 1.034
pull
Entries 85
Mean 87.87
Std Dev 0

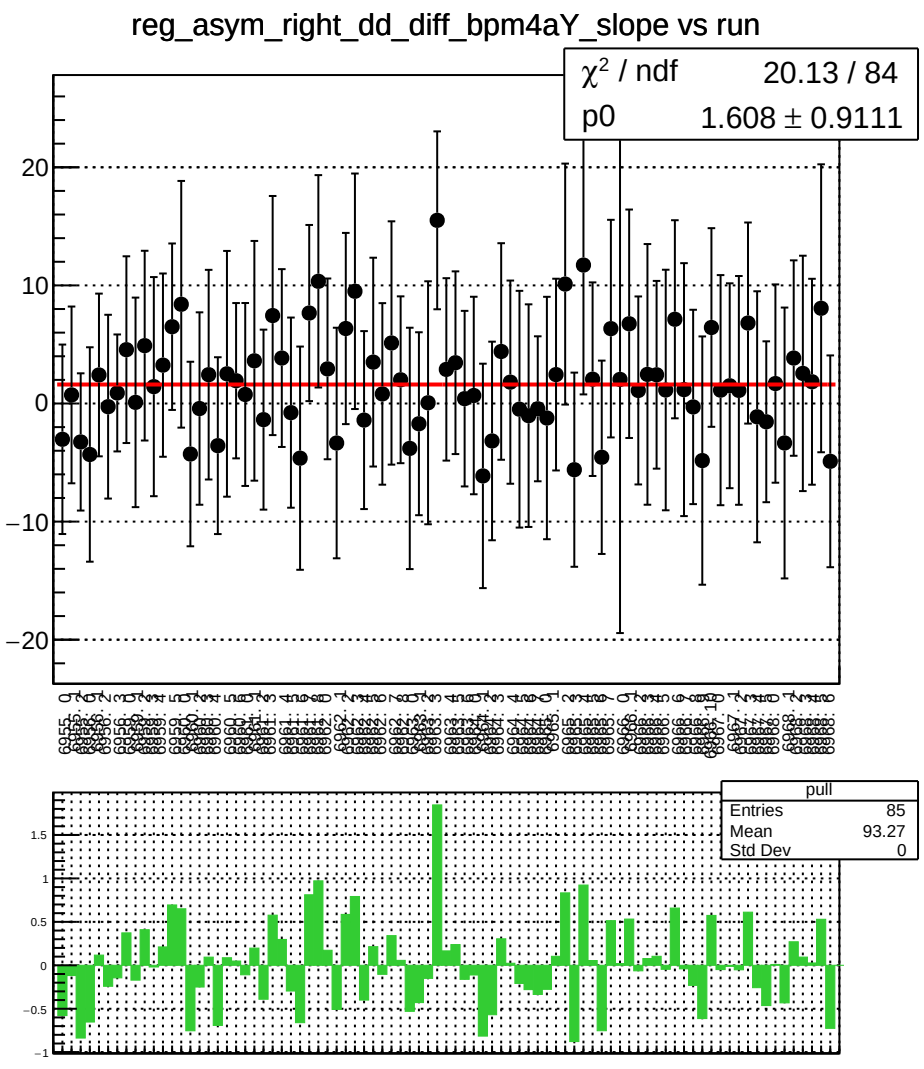

pull1D
Entries 85
Mean −0.005984
Std Dev 0.4314

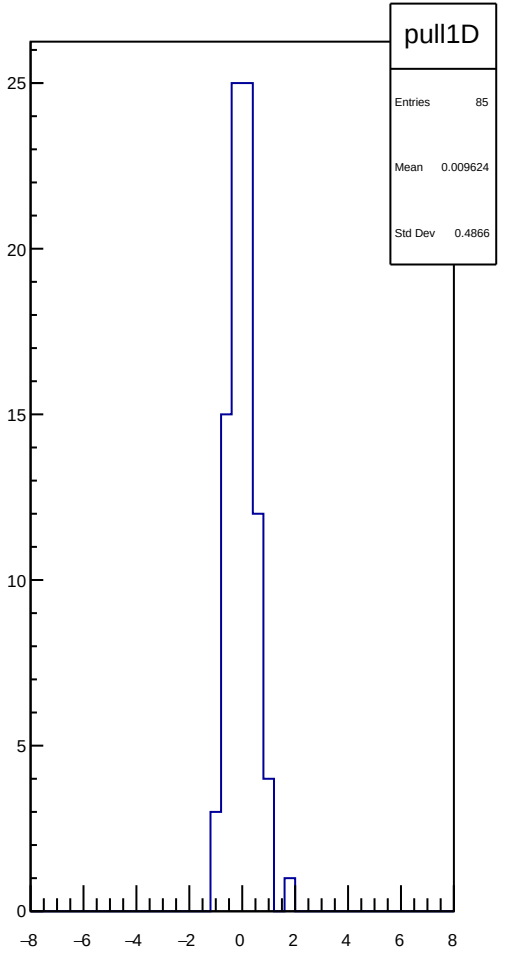

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 36.35 / 84
p0 −19.22 ± 0.03966
pull
Entries 85
Mean 291.1
Std Dev 0

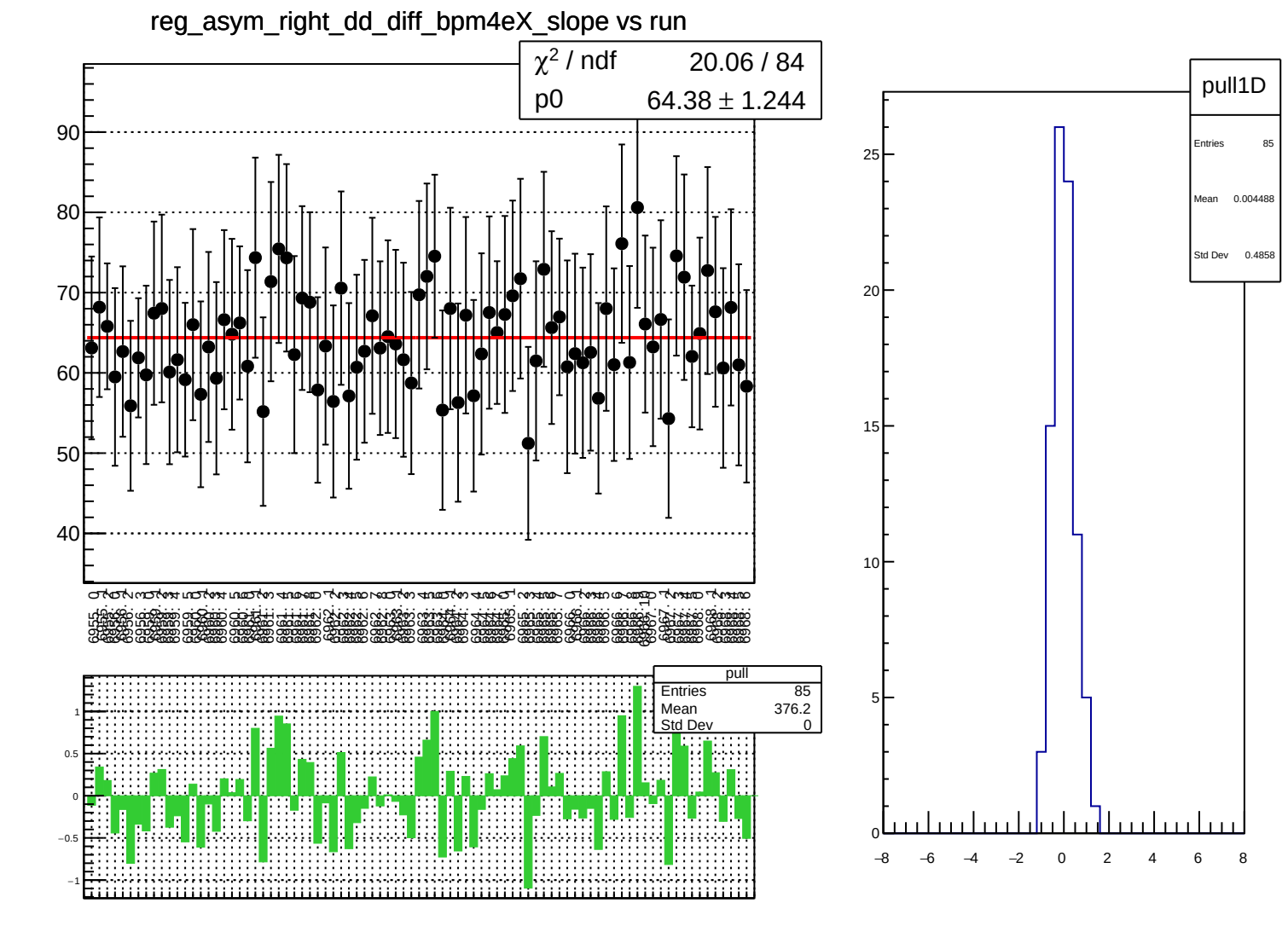

pull1D
Entries 85
Mean −0.01309
Std Dev 0.6538

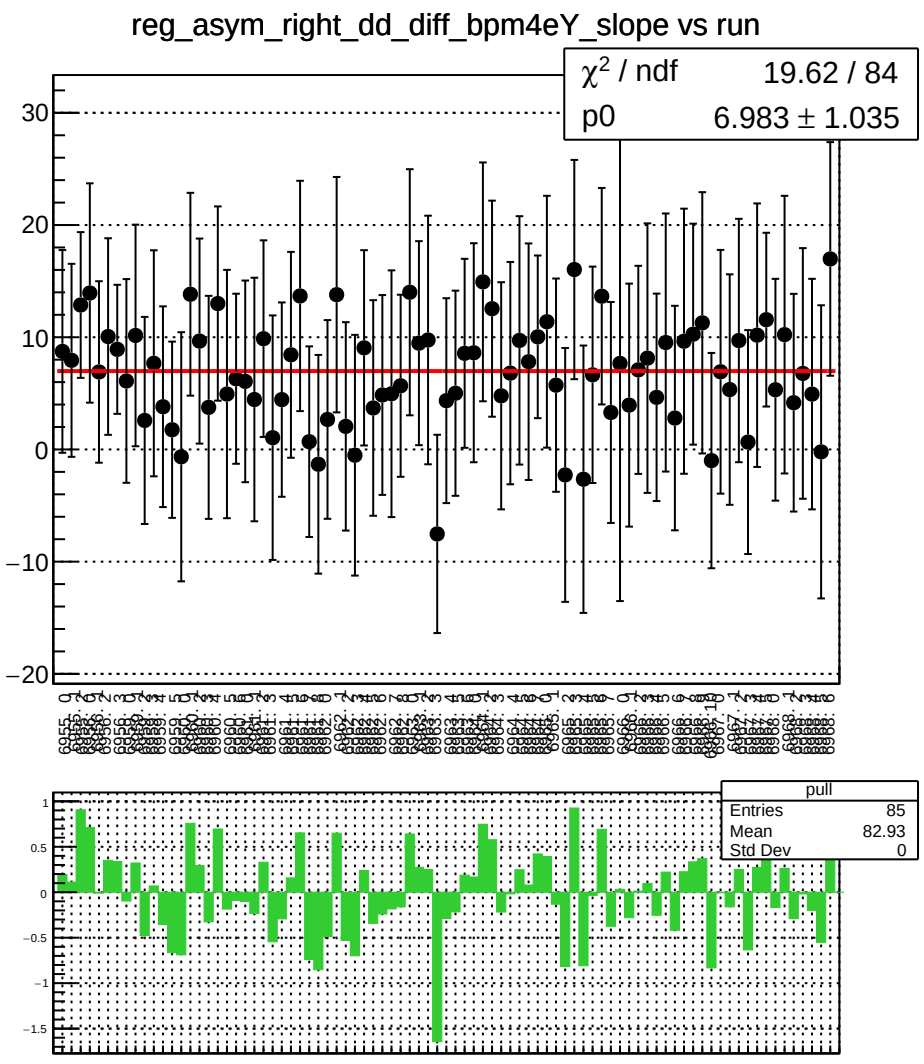

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 19.81 / 84
p0 −35.73 ± 1.347
pull
Entries 85
Mean 298.6
Std Dev 0

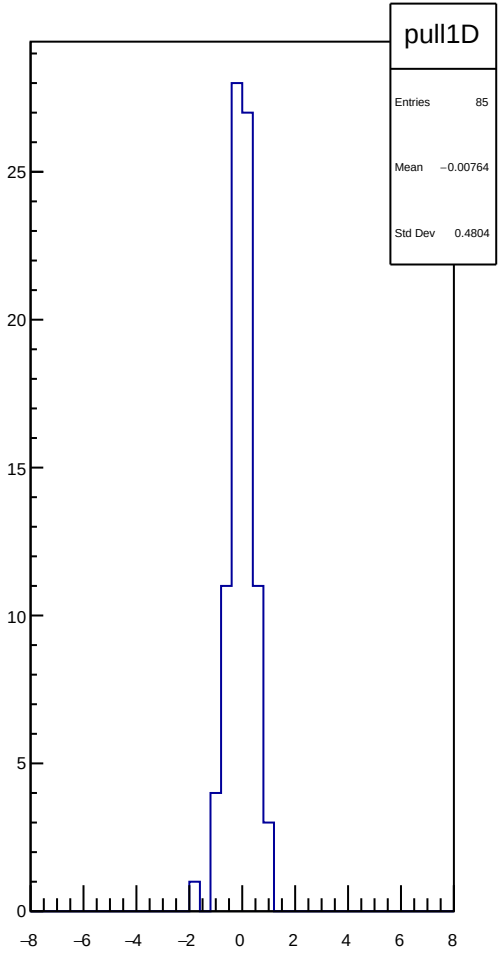

pull1D
Entries 85
Mean −0.004535
Std Dev 0.4828

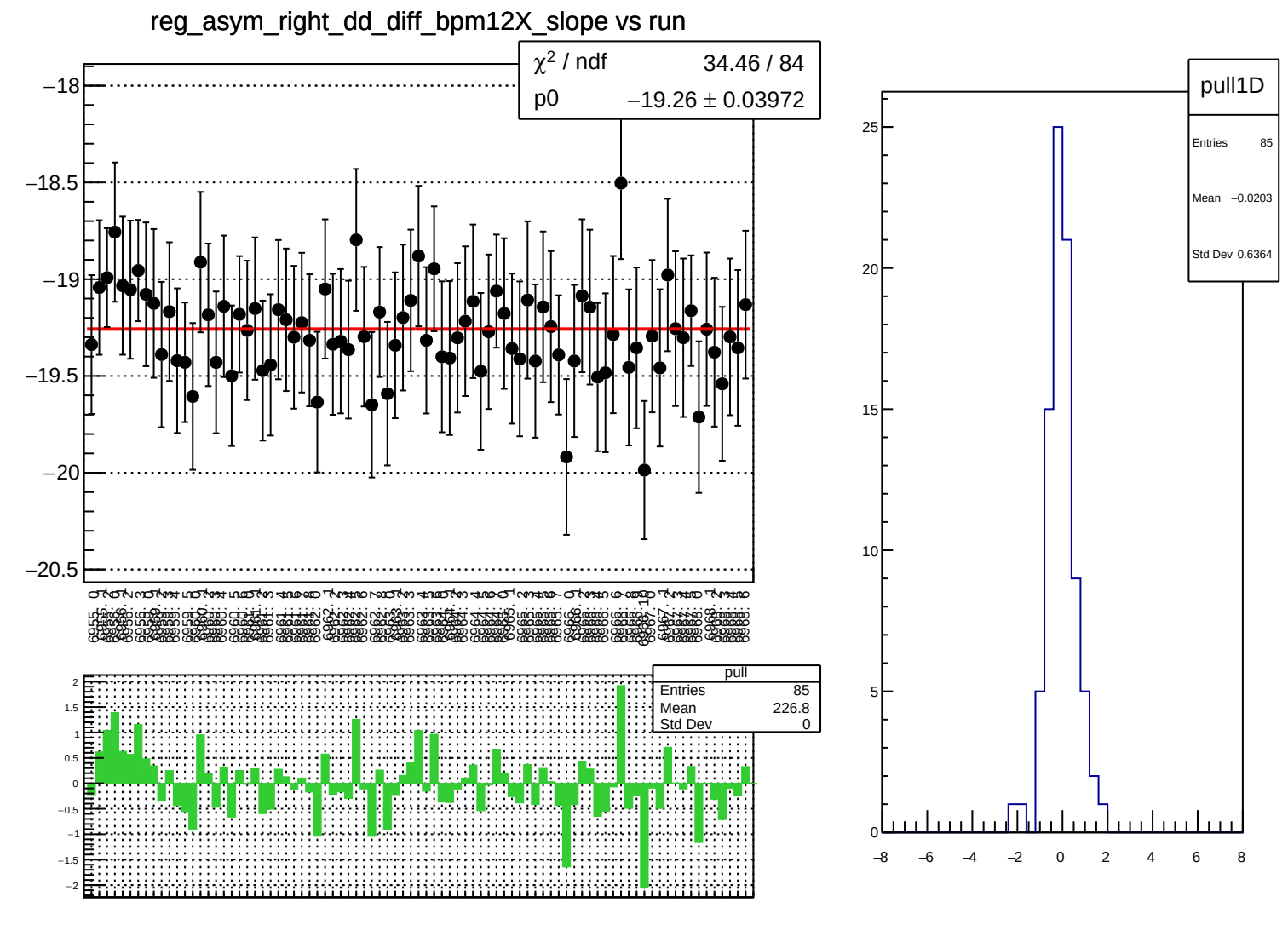

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.13 / 84
p0 1.608 ± 0.9111
pull
Entries 85
Mean 93.27
Std Dev 0

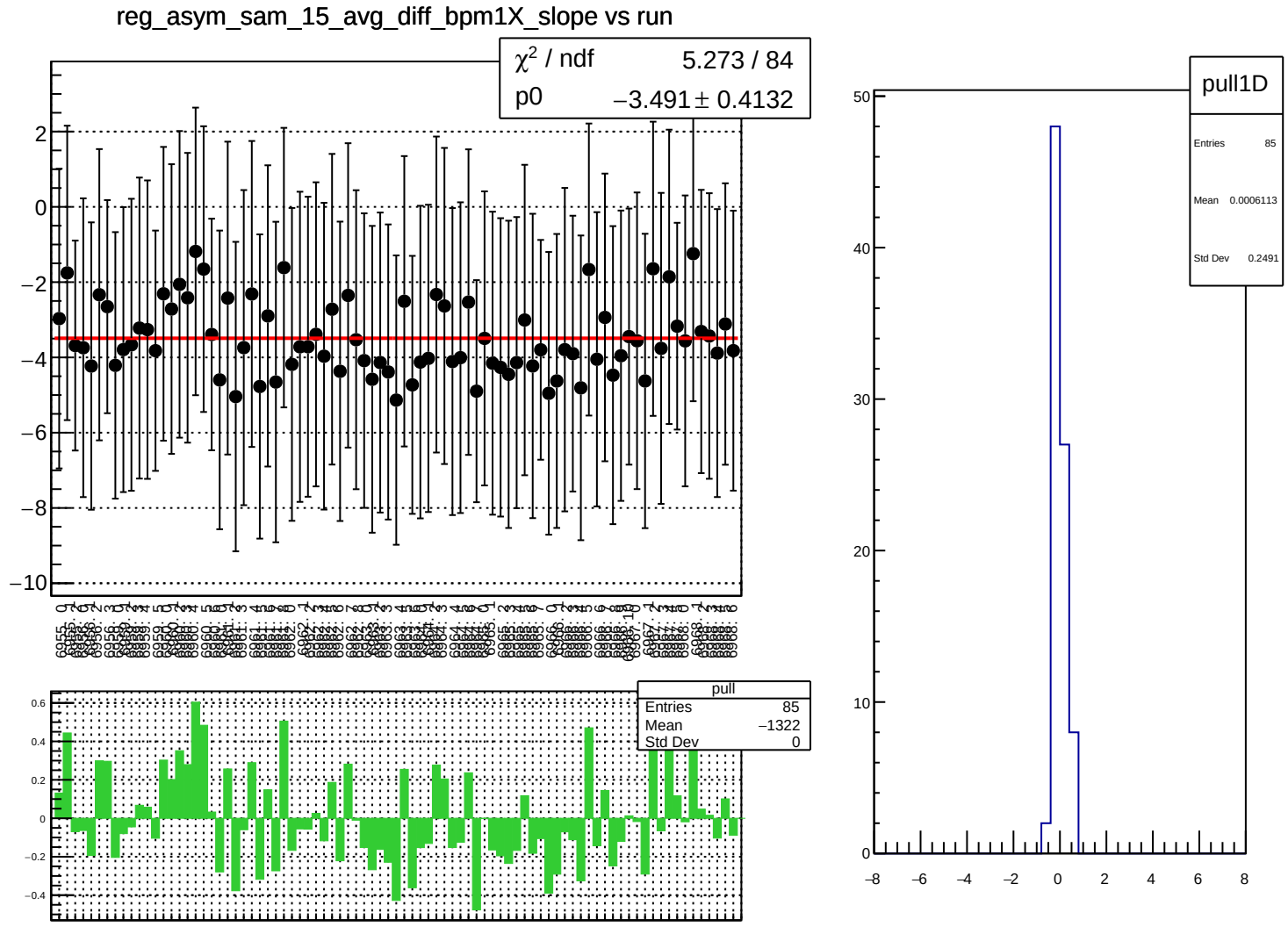

pull1D
Entries 85
Mean 0.009624
Std Dev 0.4866

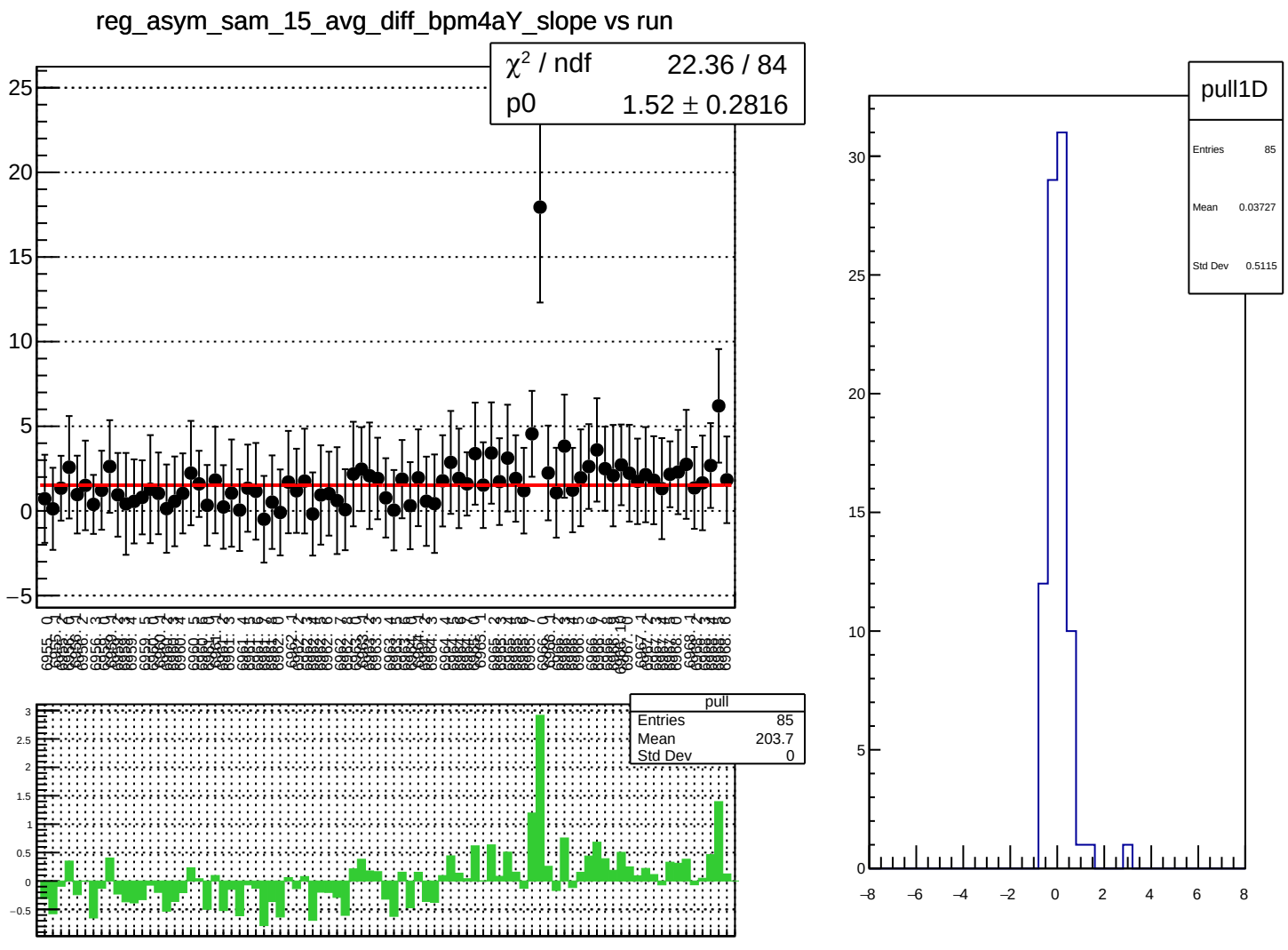

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.06 / 84
p0 64.38 ± 1.244
pull
Entries 85
Mean 376.2
Std Dev 0
pull1D
Entries 85
Mean 0.004488
Std Dev 0.4858

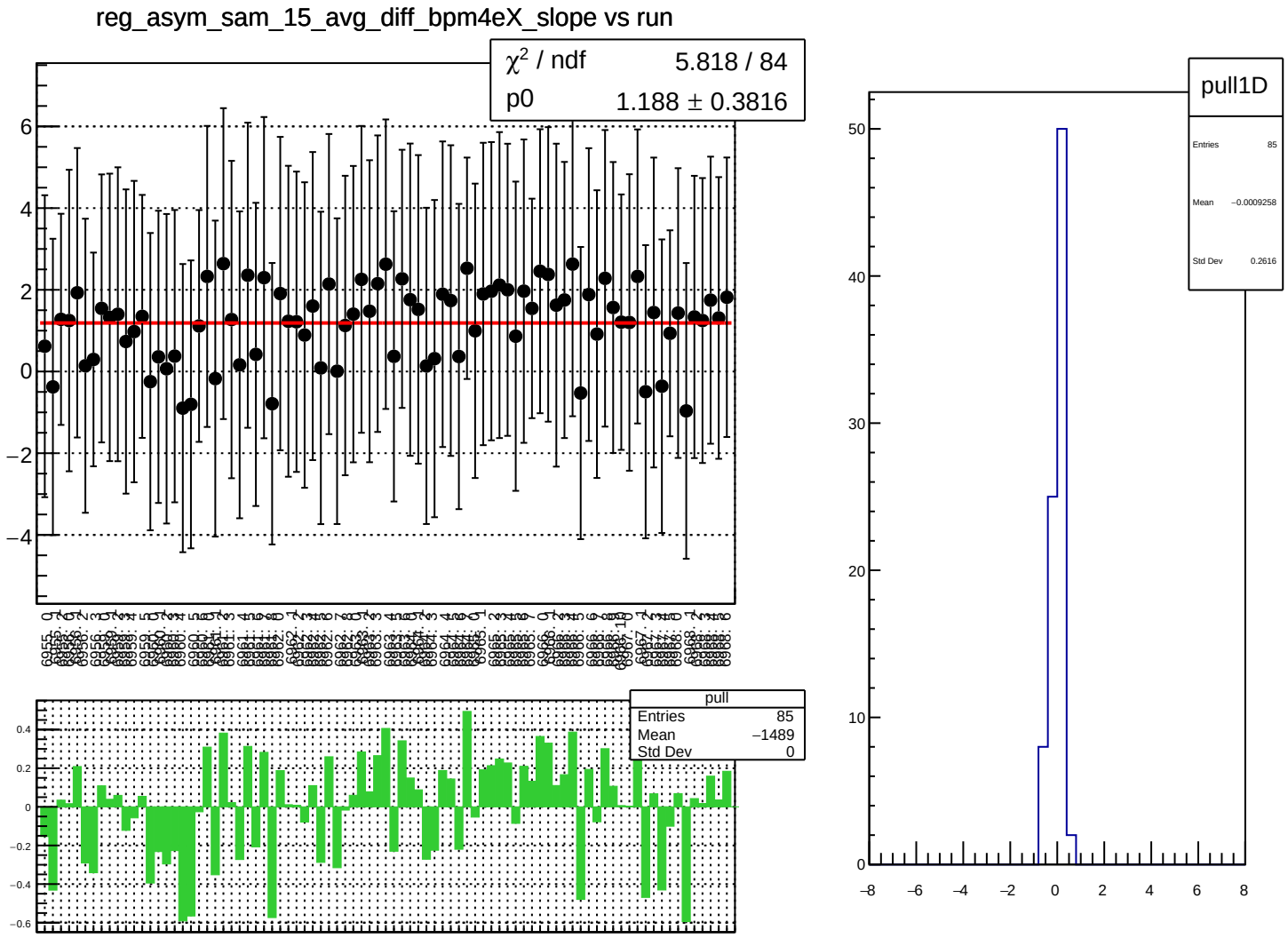

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.62 / 84
p0 6.983 ± 1.035
pull
Entries 85
Mean 82.93
Std Dev 0

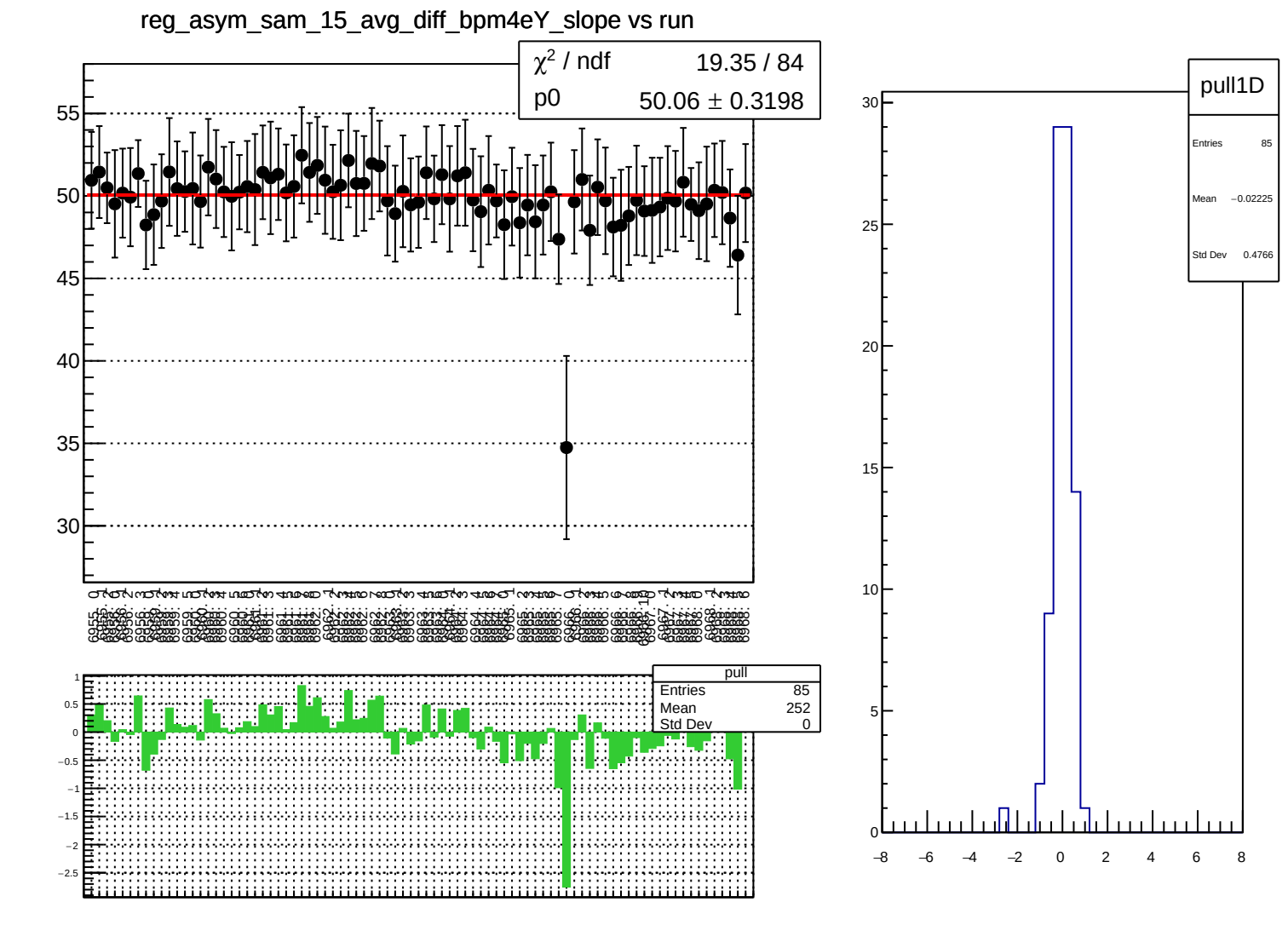

pull1D
Entries 85
Mean −0.00764
Std Dev 0.4804

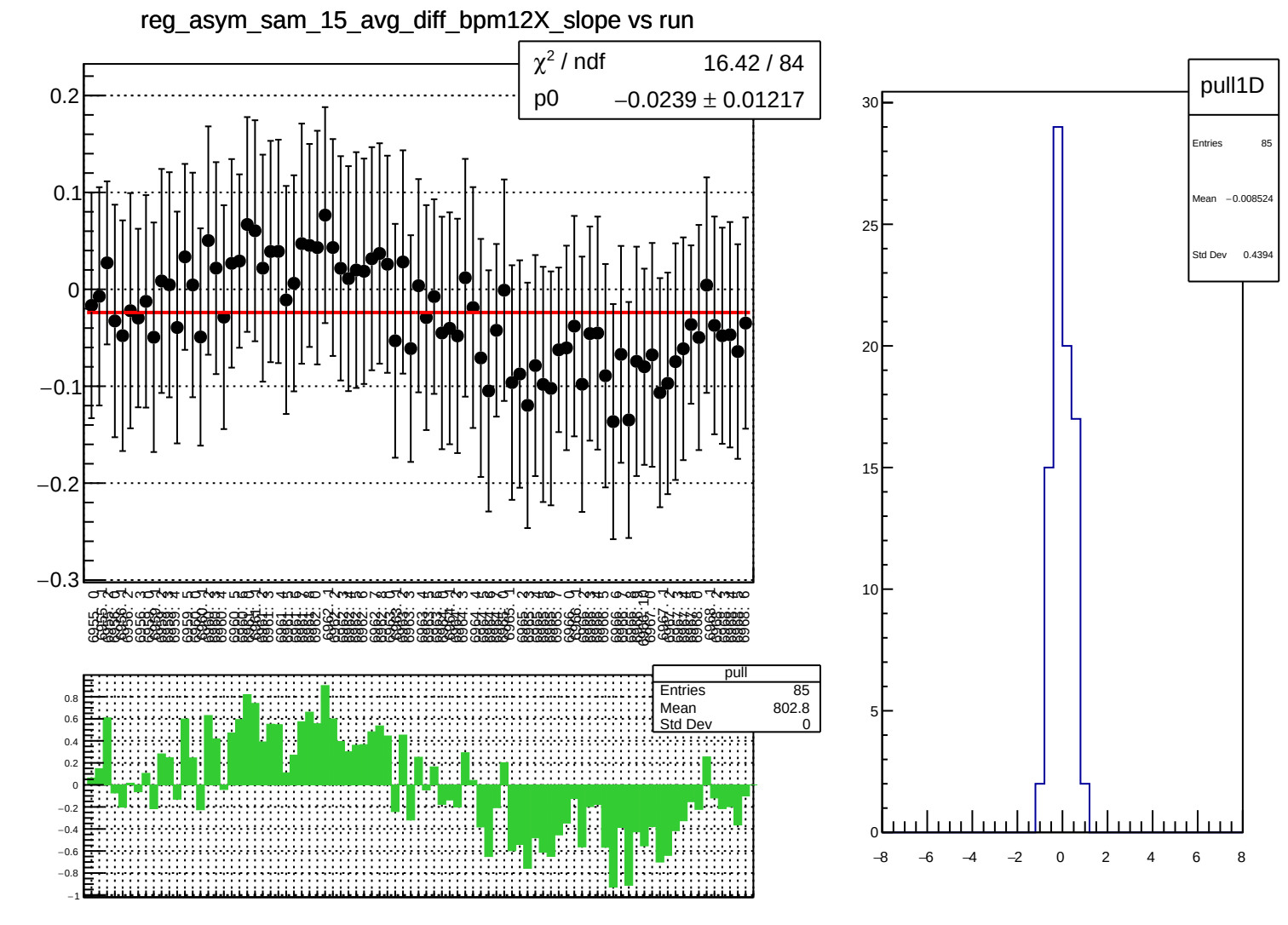

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 34.46 / 84
p0 −19.26 ± 0.03972
pull
Entries 85
Mean 226.8
Std Dev 0
pull1D
Entries 85
Mean −0.0203
Std Dev 0.6364

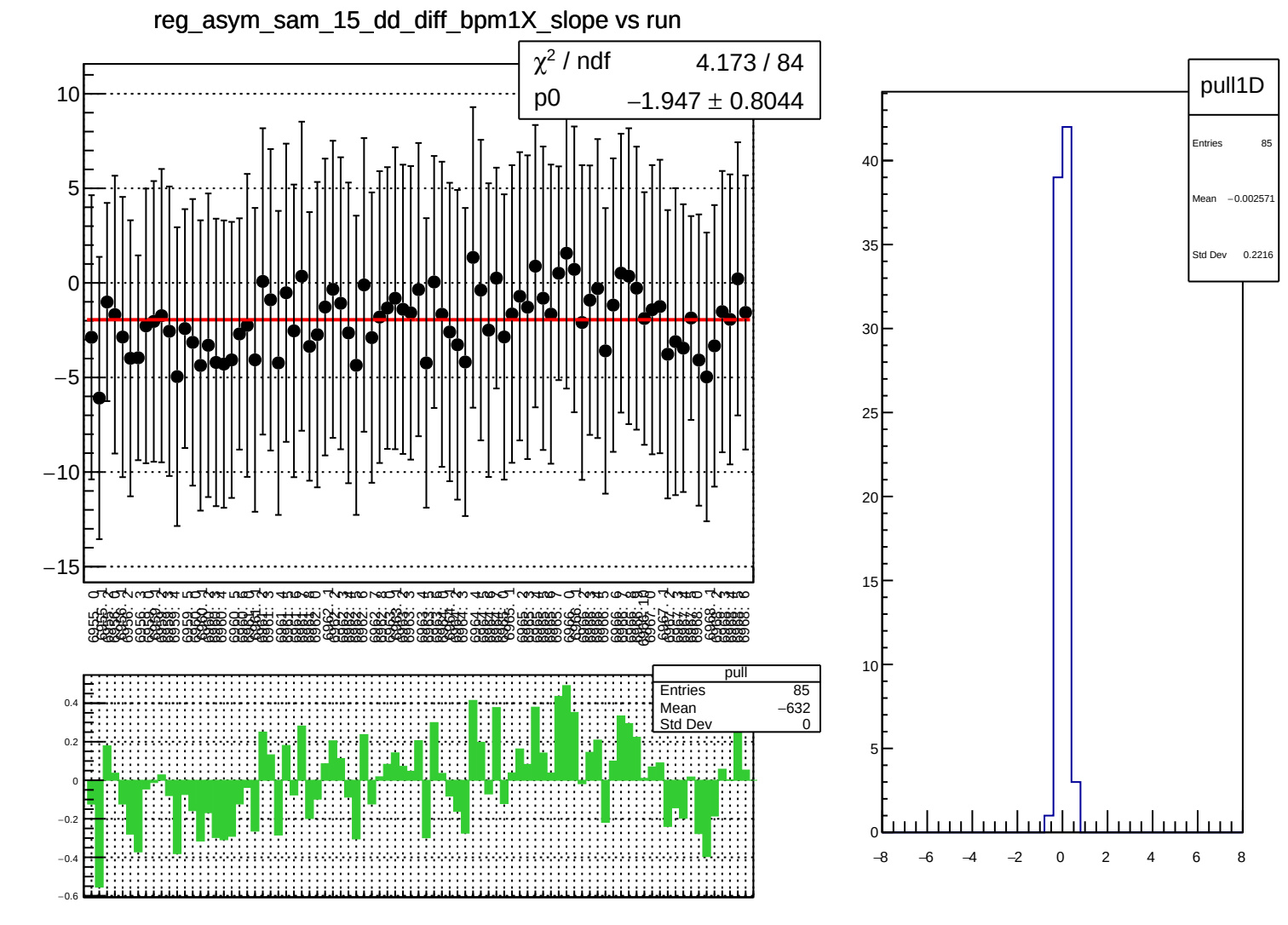

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 5.273 / 84
p0 −3.491 ± 0.4132
pull
Entries 85
Mean −1322
Std Dev 0
pull1D
Entries 85
Mean 0.0006113
Std Dev 0.2491

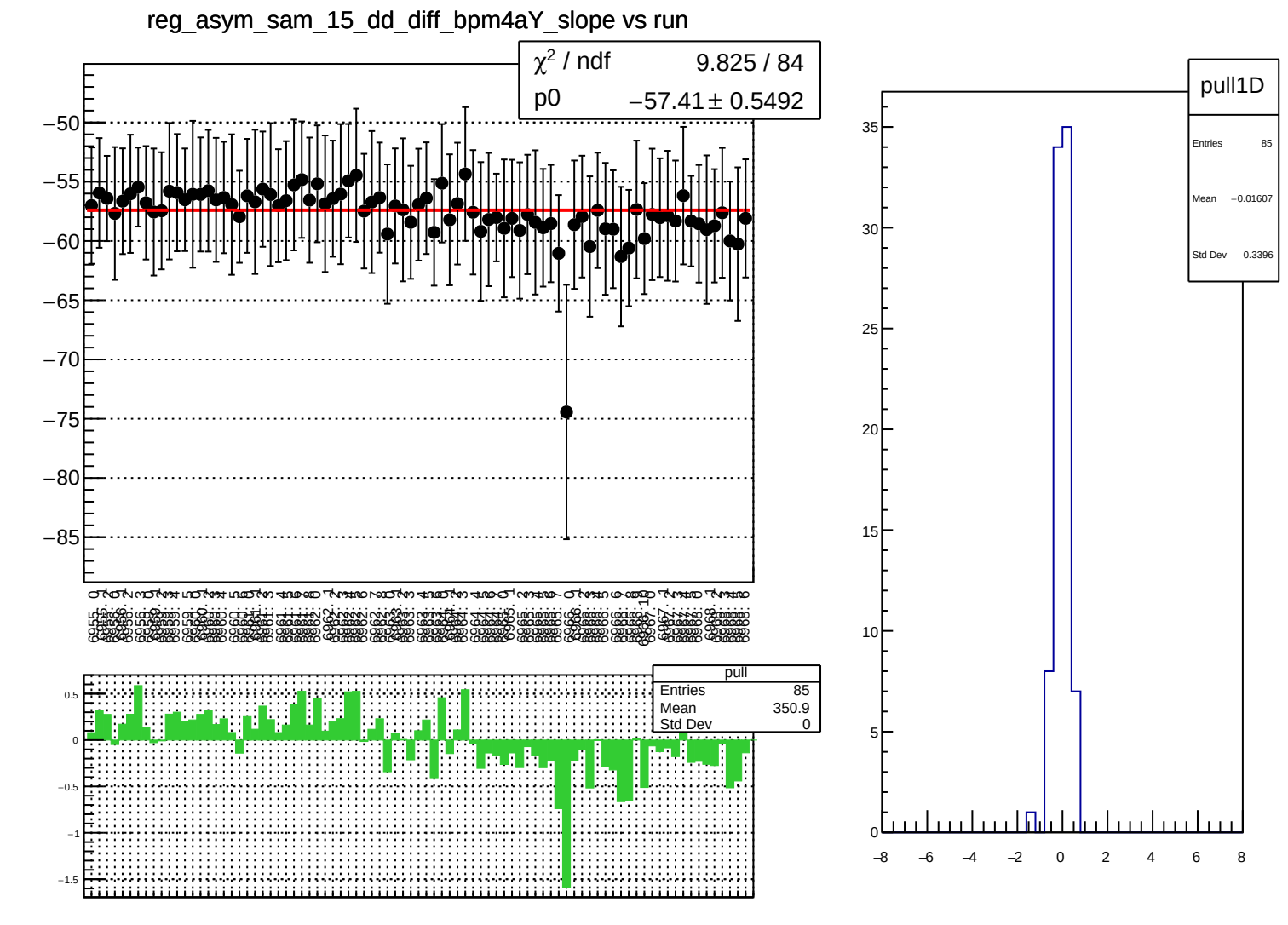

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.36 / 84
p0 1.52 ± 0.2816
pull
Entries 85
Mean 203.7
Std Dev 0
pull1D
Entries 85
Mean 0.03727
Std Dev 0.5115

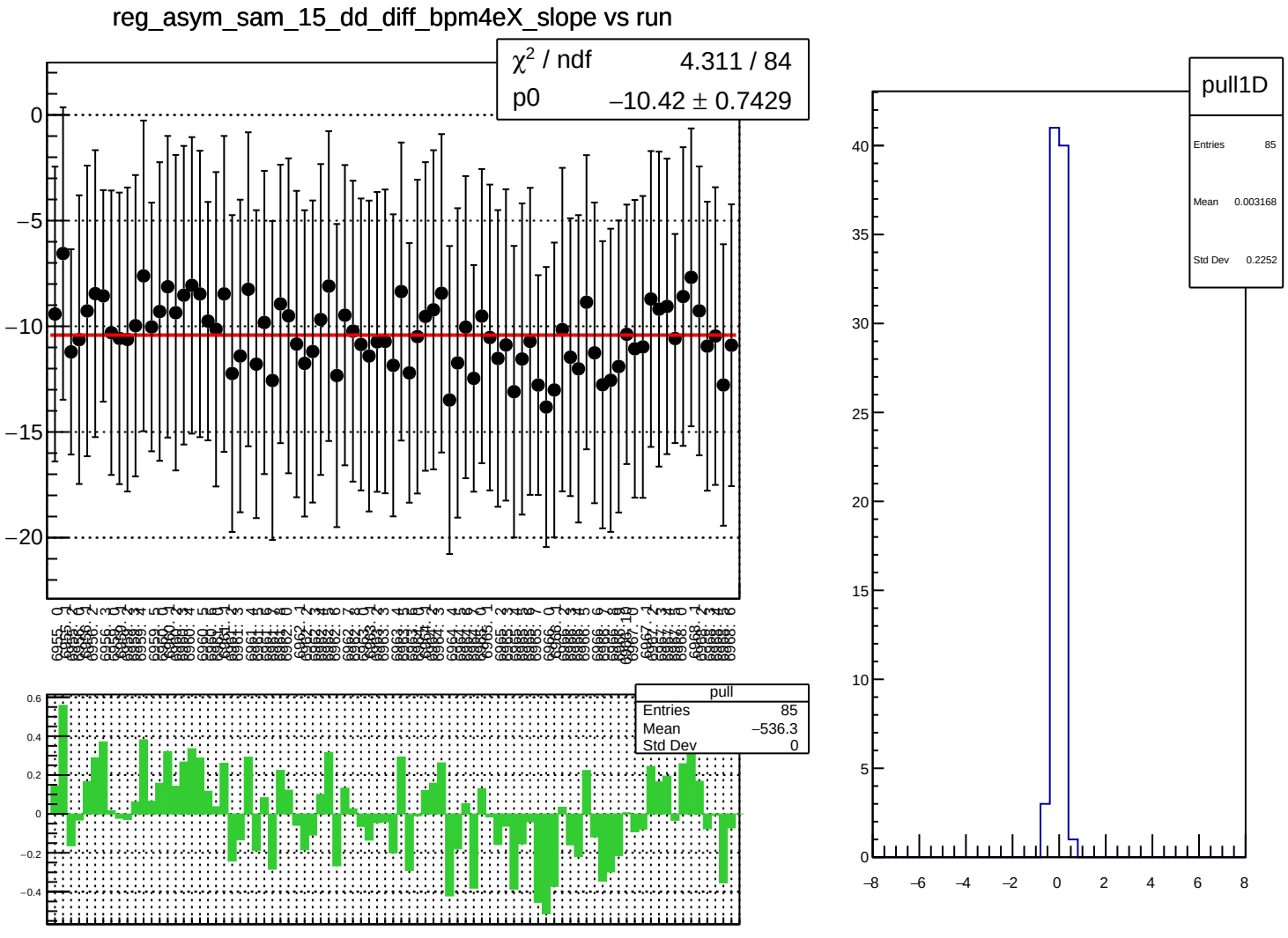

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.818 / 84
p0 1.188 ± 0.3816
pull
Entries 85
Mean −1489
Std Dev 0
pull1D
Entries 85
Mean −0.0009258
Std Dev 0.2616

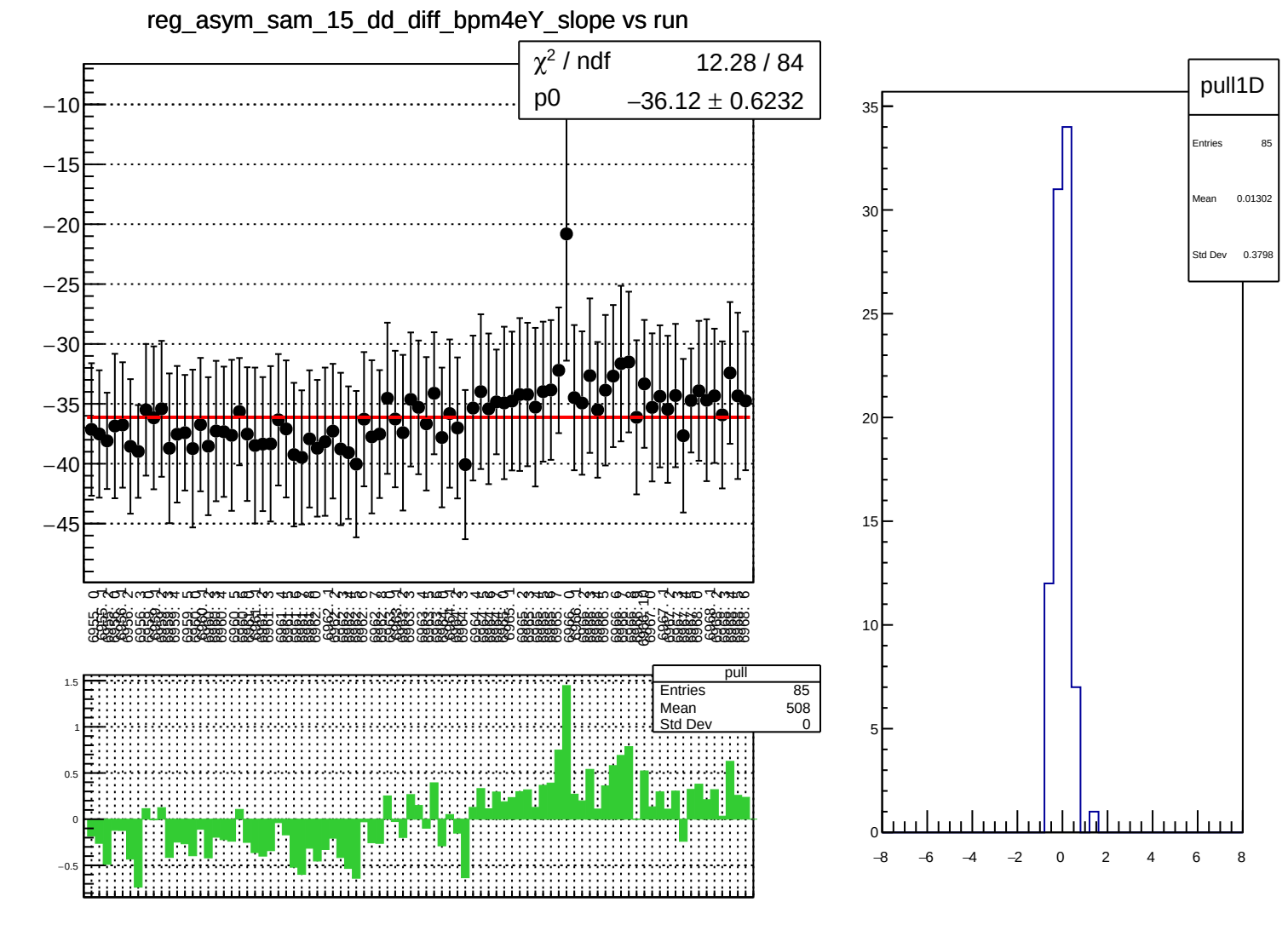

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.35 / 84
p0 50.06 ± 0.3198
pull
Entries 85
Mean 252
Std Dev 0
pull1D
Entries 85
Mean −0.02225
Std Dev 0.4766

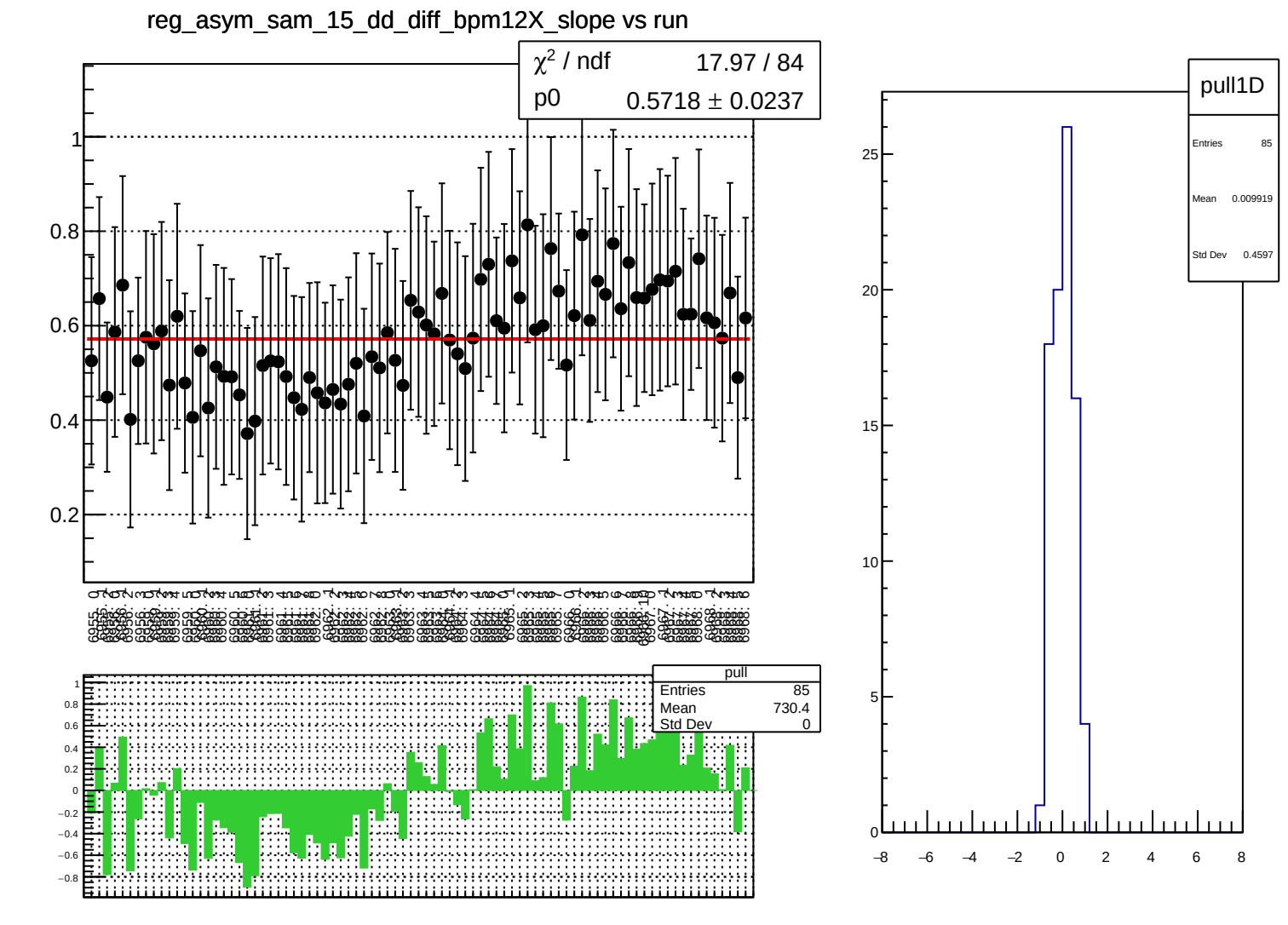

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 16.42 / 84
p0 −0.0239 ± 0.01217
pull
Entries 85
Mean 802.8
Std Dev 0
pull1D
Entries 85
Mean −0.008524
Std Dev 0.4394

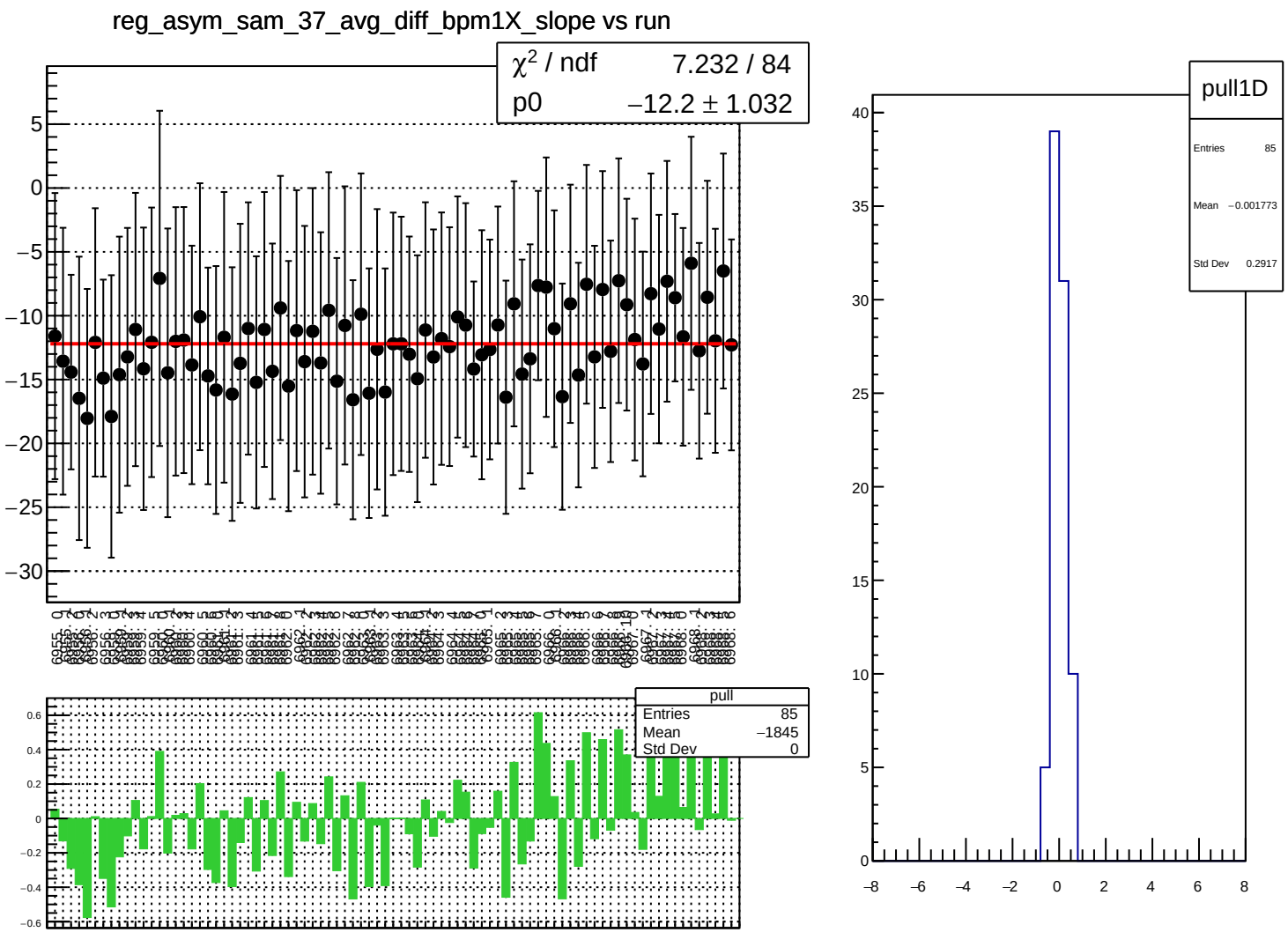

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 4.173 / 84
p0 −1.947 ± 0.8044
pull
Entries 85
Mean −632
Std Dev 0
pull1D
Entries 85
Mean −0.002571
Std Dev 0.2216

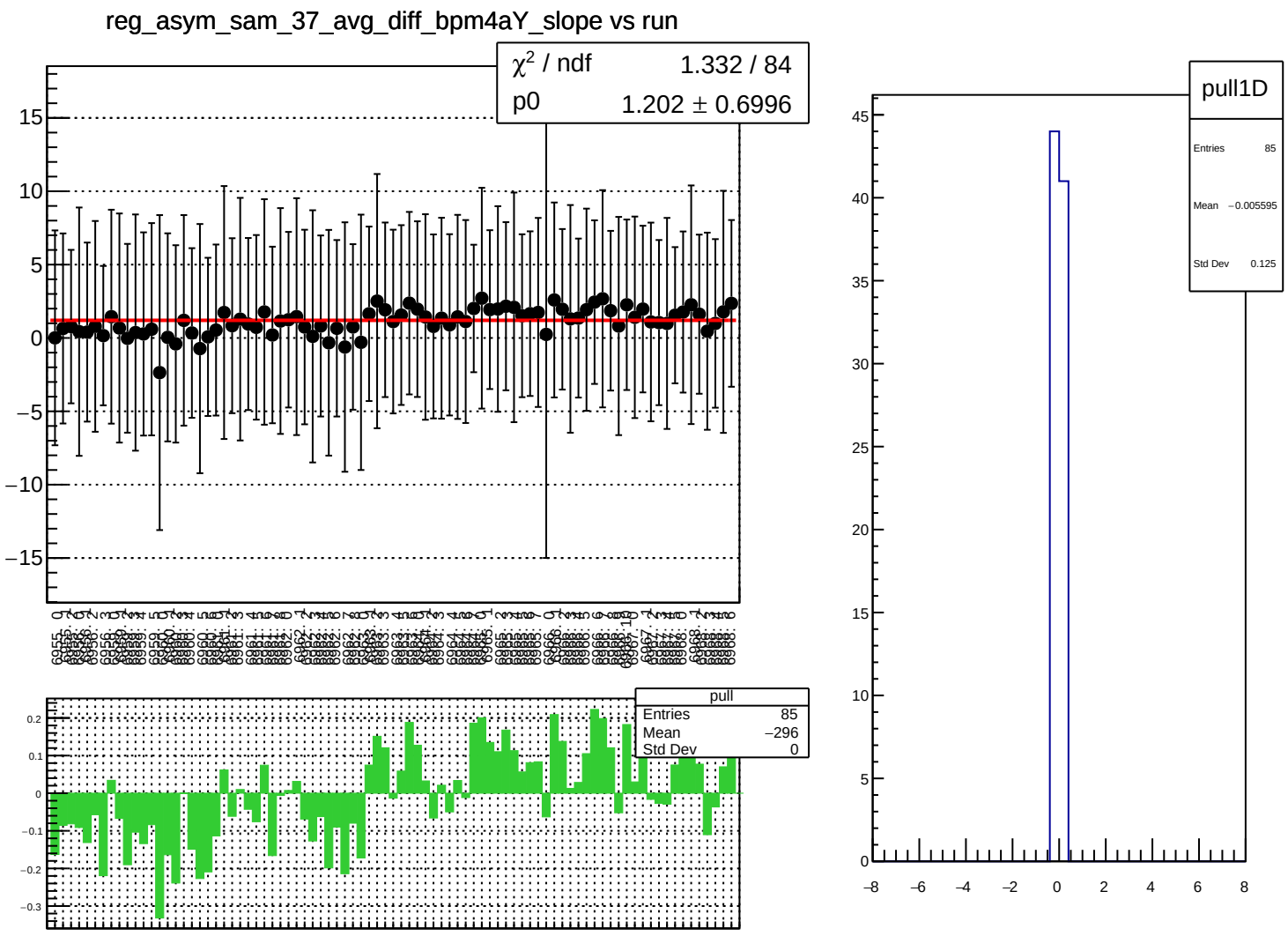

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.825 / 84
p0 −57.41 ± 0.5492
−50
−55
−60
−65
−70
−75
−80
−85
pull
Entries 85
Mean 350.9
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.01607
Std Dev 0.3396
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

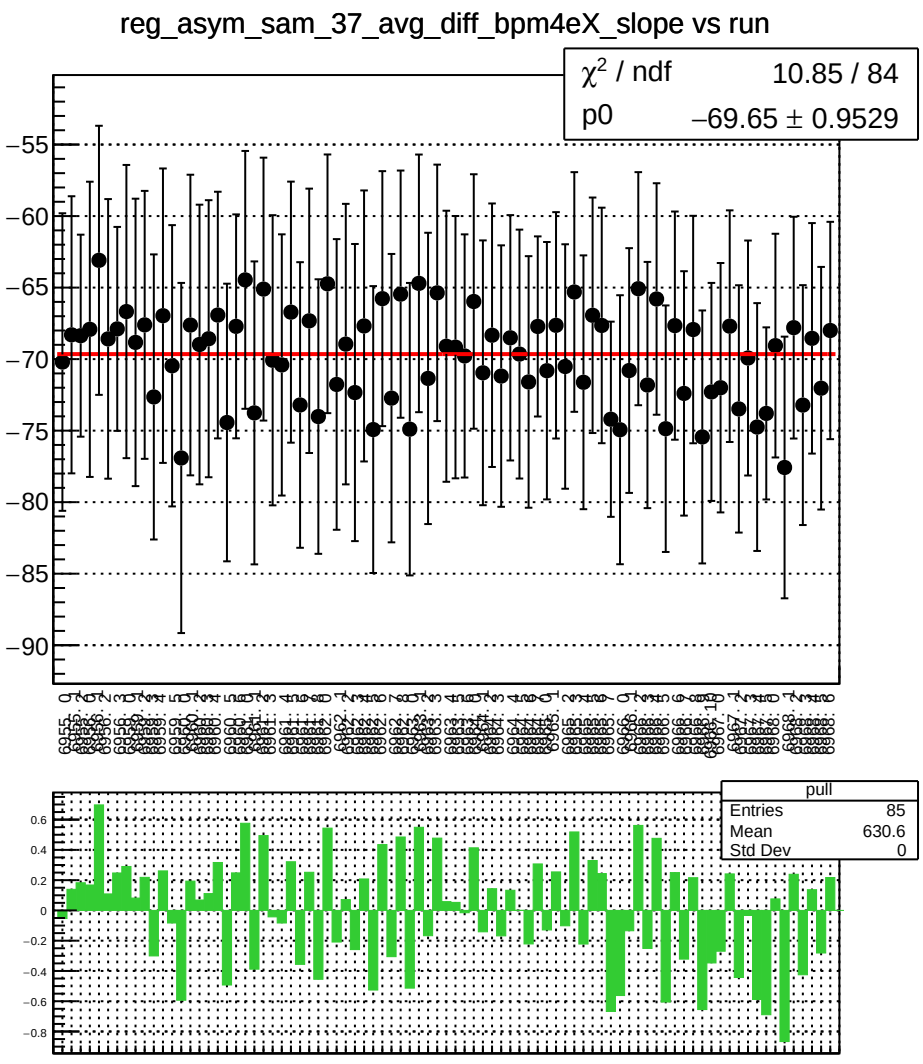

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.311 / 84
p0 −10.42 ± 0.7429
pull
Entries 85
Mean −536.3
Std Dev 0
pull1D
Entries 85
Mean 0.003168
Std Dev 0.2252

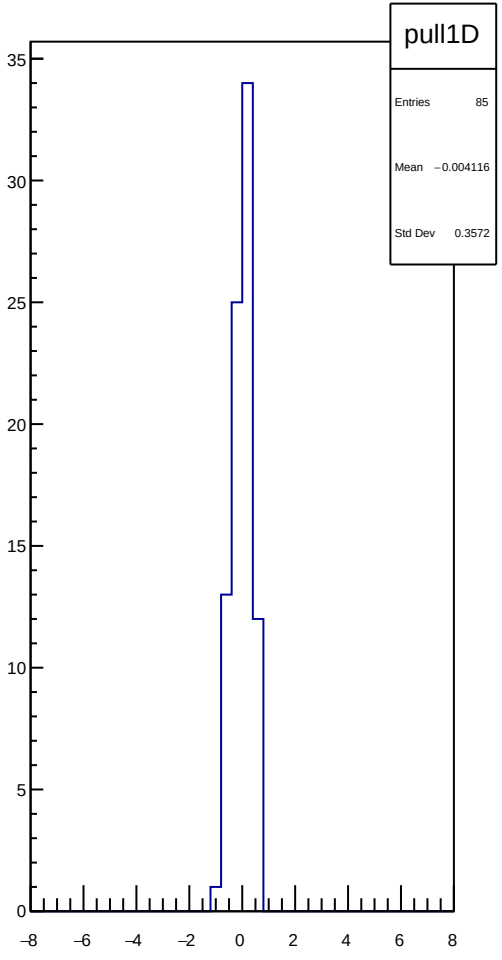

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.28 / 84
p0 −36.12 ± 0.6232
pull
Entries 85
Mean 508
Std Dev 0
pull1D
Entries 85
Mean 0.01302
Std Dev 0.3798

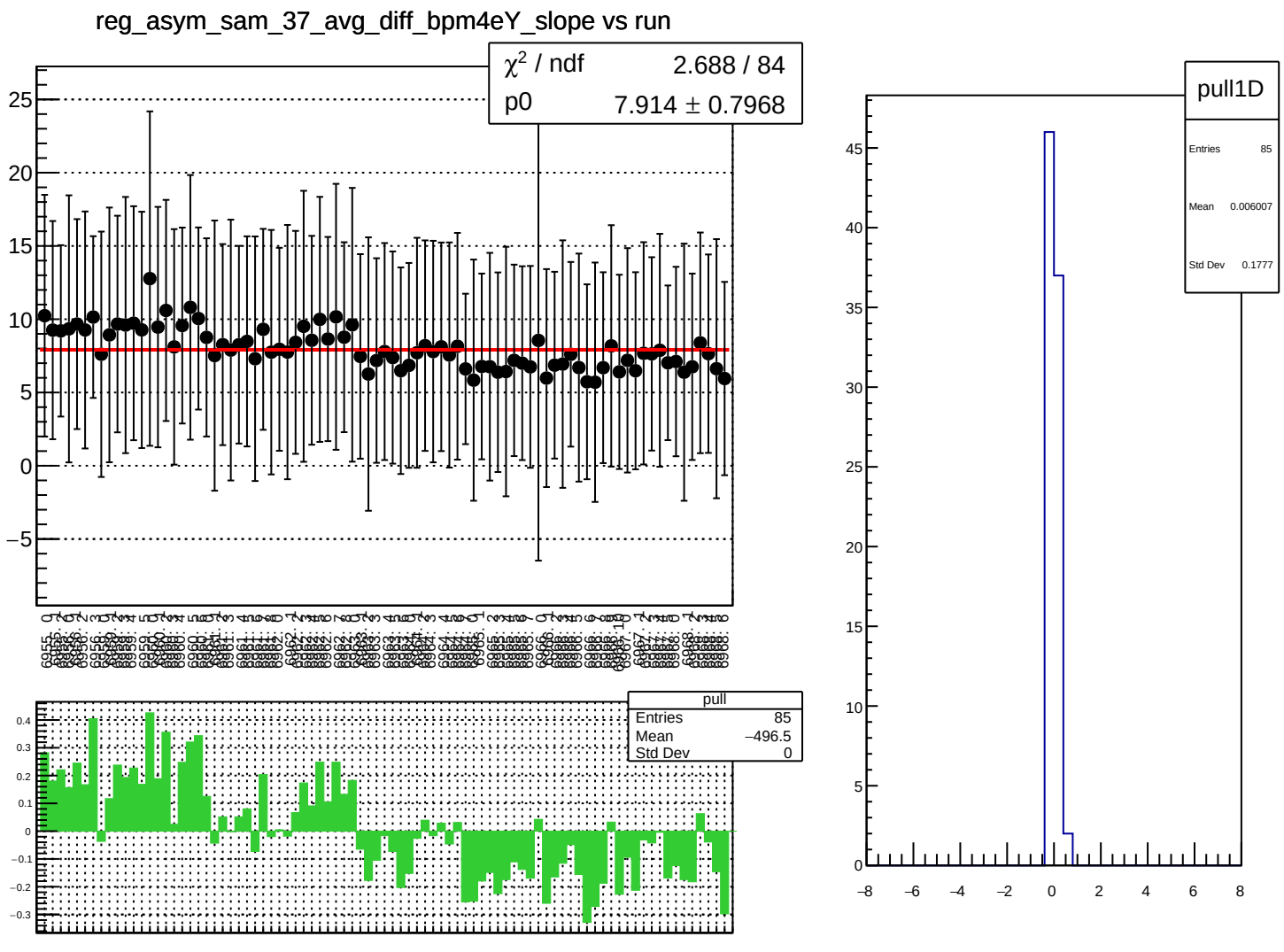

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 17.97 / 84
p0 0.5718 ± 0.0237
pull
Entries 85
Mean 730.4
Std Dev 0
pull1D
Entries 85
Mean 0.009919
Std Dev 0.4597

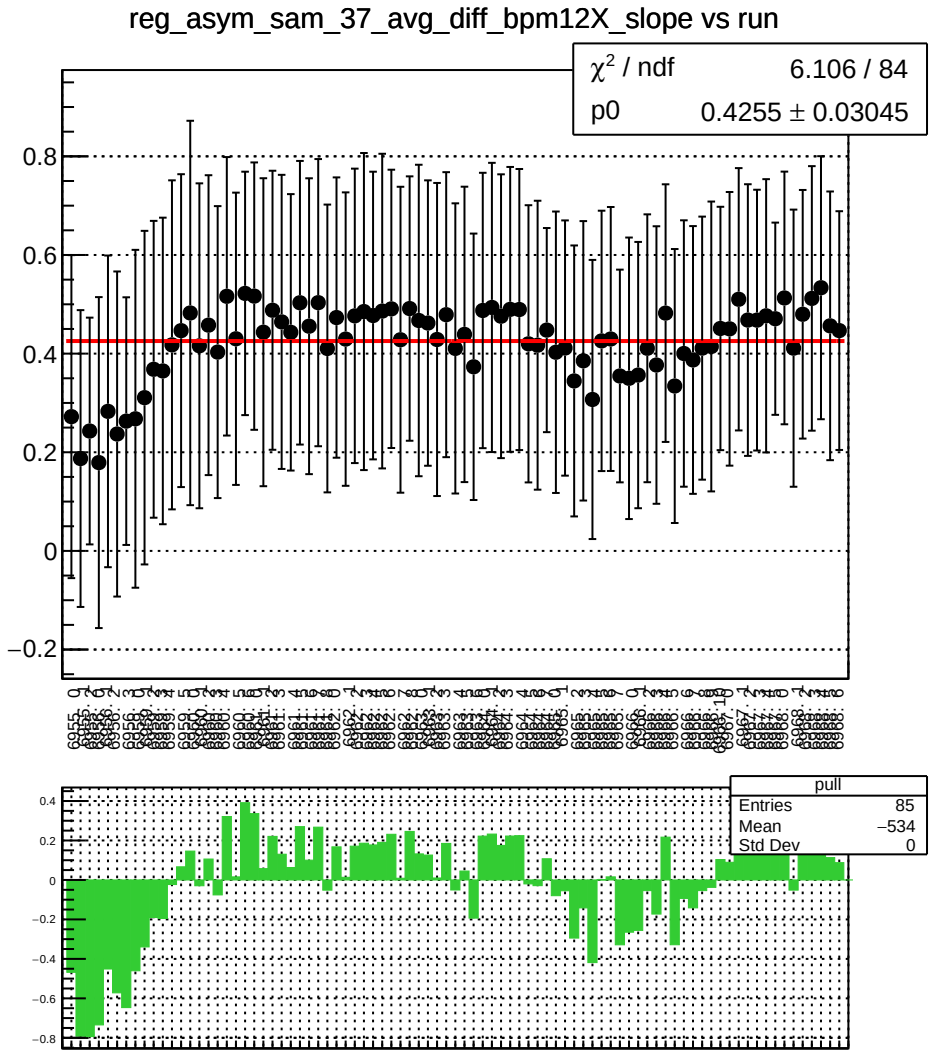

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 7.232 / 84
p0 −12.2 ± 1.032
pull
Entries 85
Mean −1845
Std Dev 0
pull1D
Entries 85
Mean −0.001773
Std Dev 0.2917

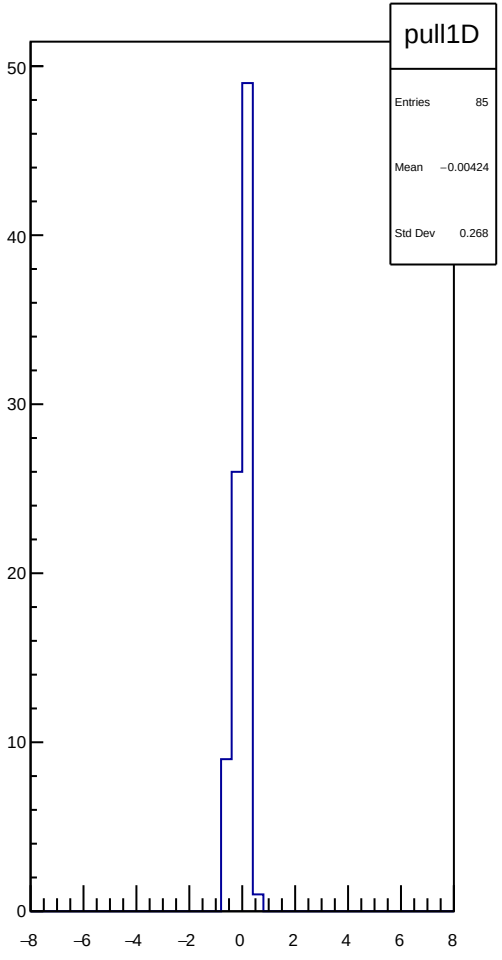

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.332 / 84
p0 1.202 ± 0.6996
pull
Entries 85
Mean −296
Std Dev 0
pull1D
Entries 85
Mean −0.005595
Std Dev 0.125

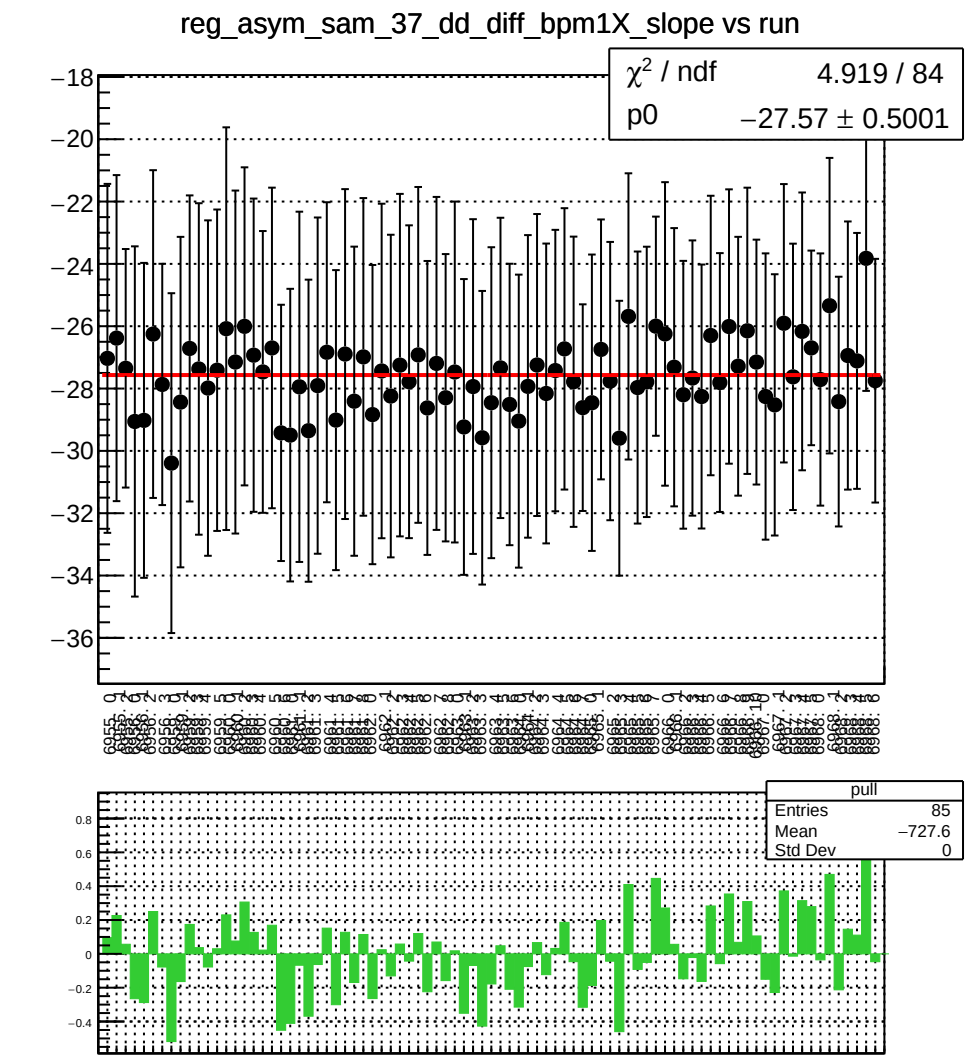

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.85 / 84
p0 −69.65 ± 0.9529
pull
Entries 85
Mean 630.6
Std Dev 0

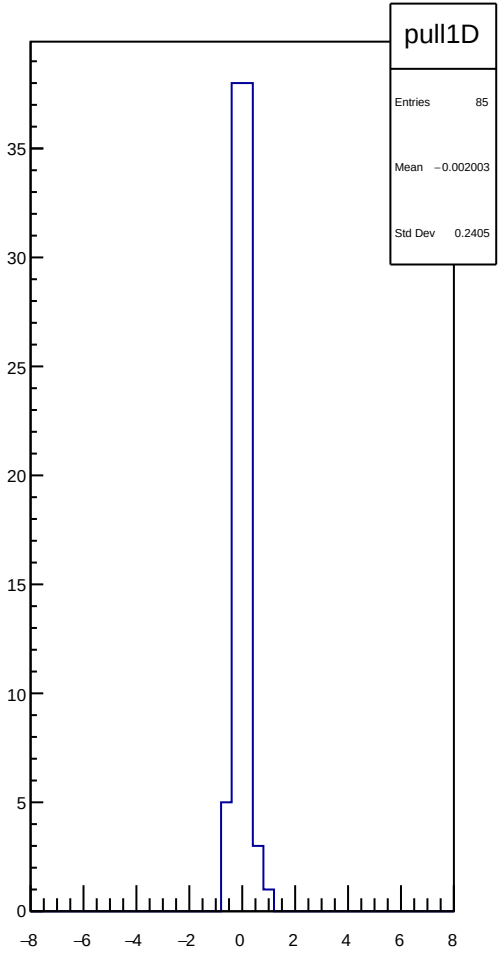

pull1D
Entries 85
Mean −0.004116
Std Dev 0.3572

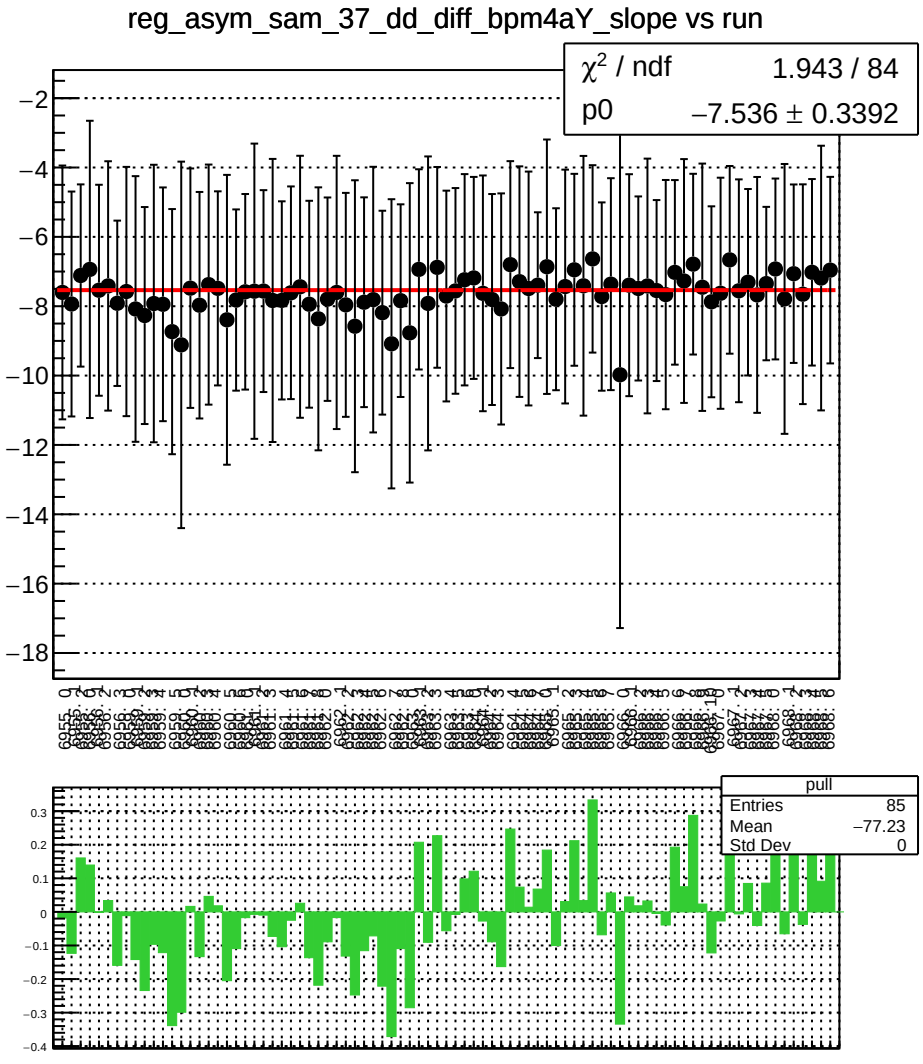

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.688 / 84
p0 7.914 ± 0.7968
pull
Entries 85
Mean −496.5
Std Dev 0
pull1D
Entries 85
Mean 0.006007
Std Dev 0.1777

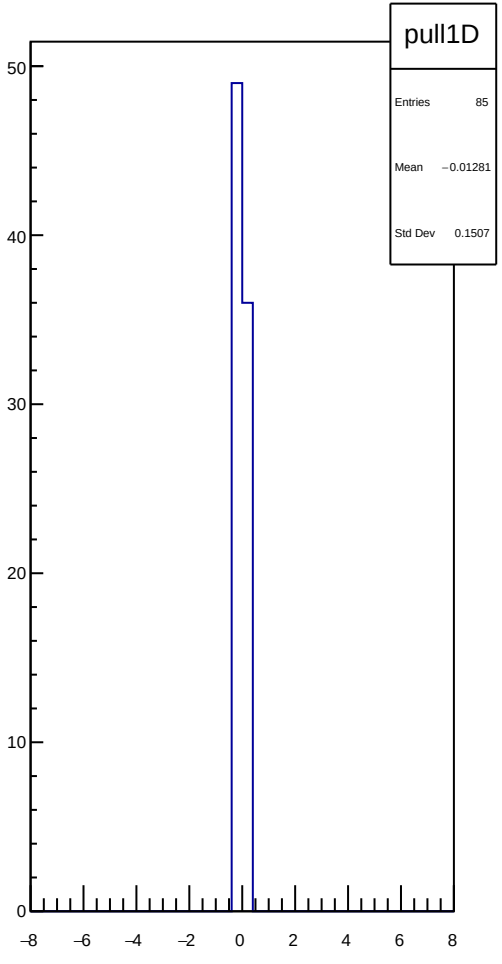

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 6.106 / 84
p0 0.4255 ± 0.03045
pull
Entries 85
Mean −534
Std Dev 0

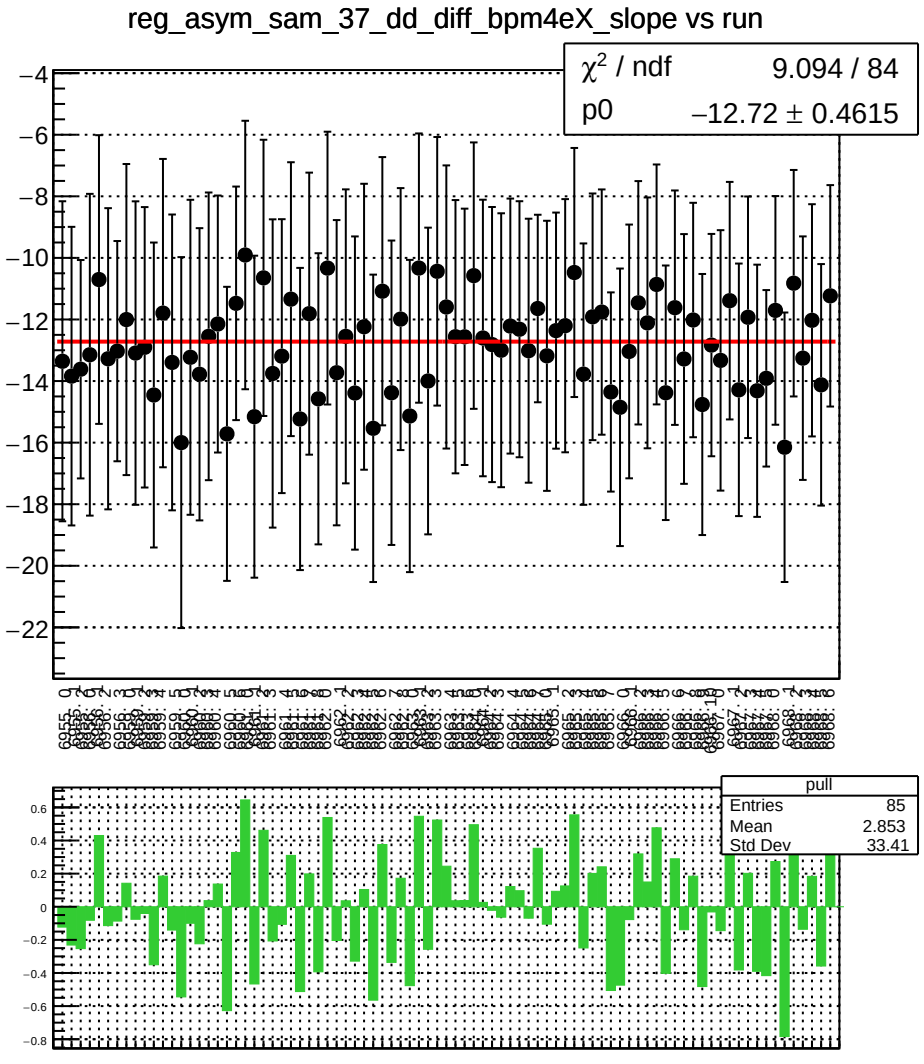

pull1D
Entries 85
Mean −0.00424
Std Dev 0.268

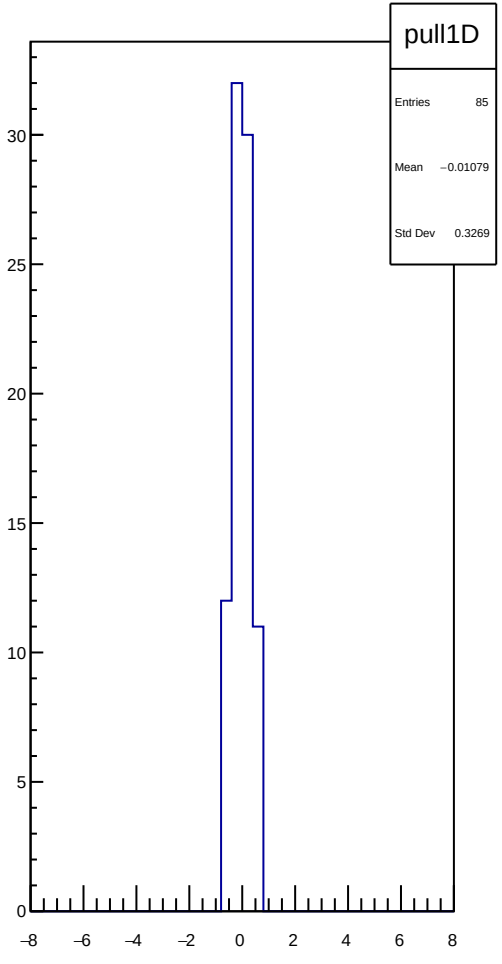

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 4.919 / 84
p0 −27.57 ± 0.5001
pull
Entries 85
Mean −727.6
Std Dev 0

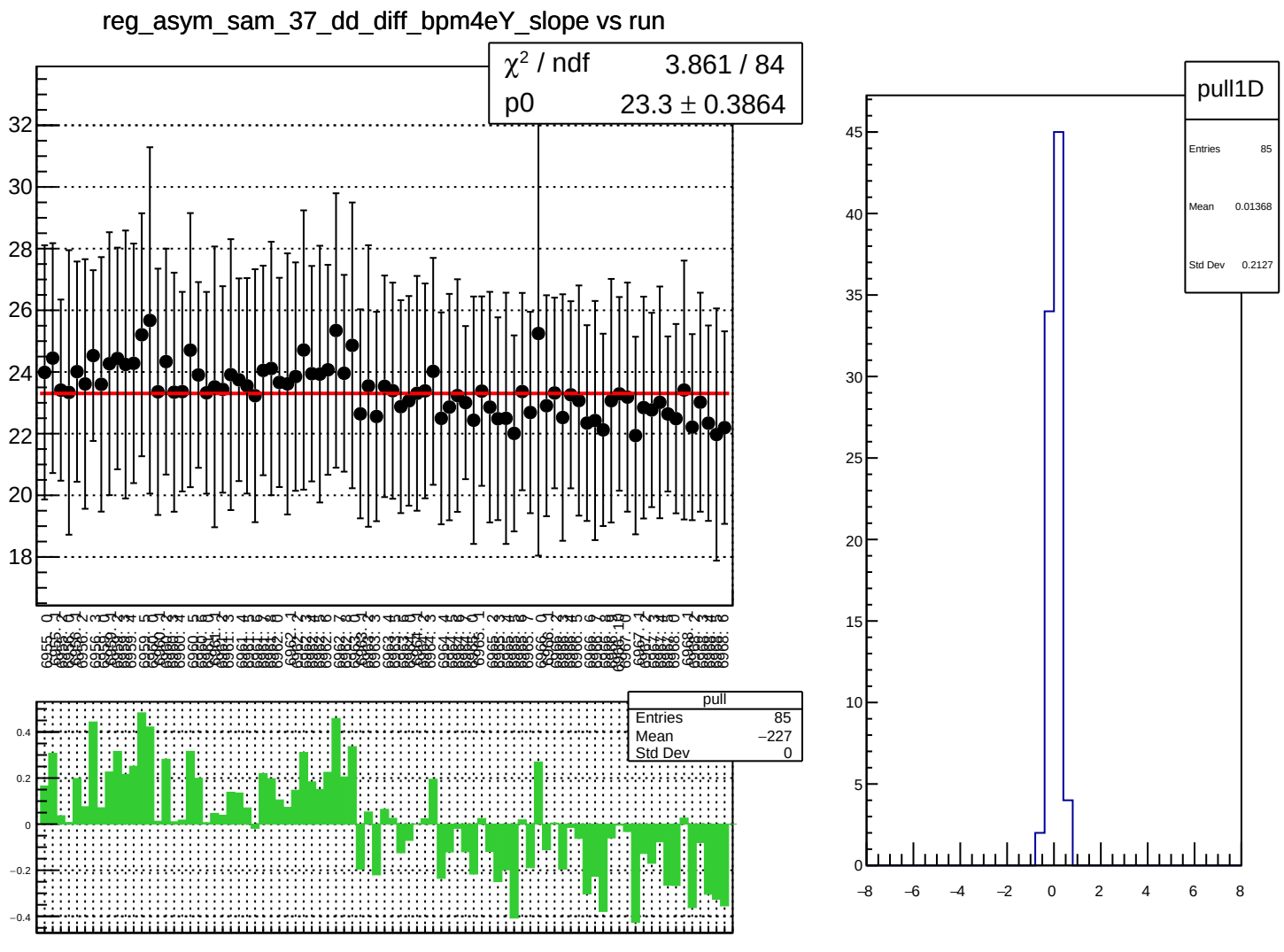

pull1D
Entries 85
Mean −0.002003
Std Dev 0.2405

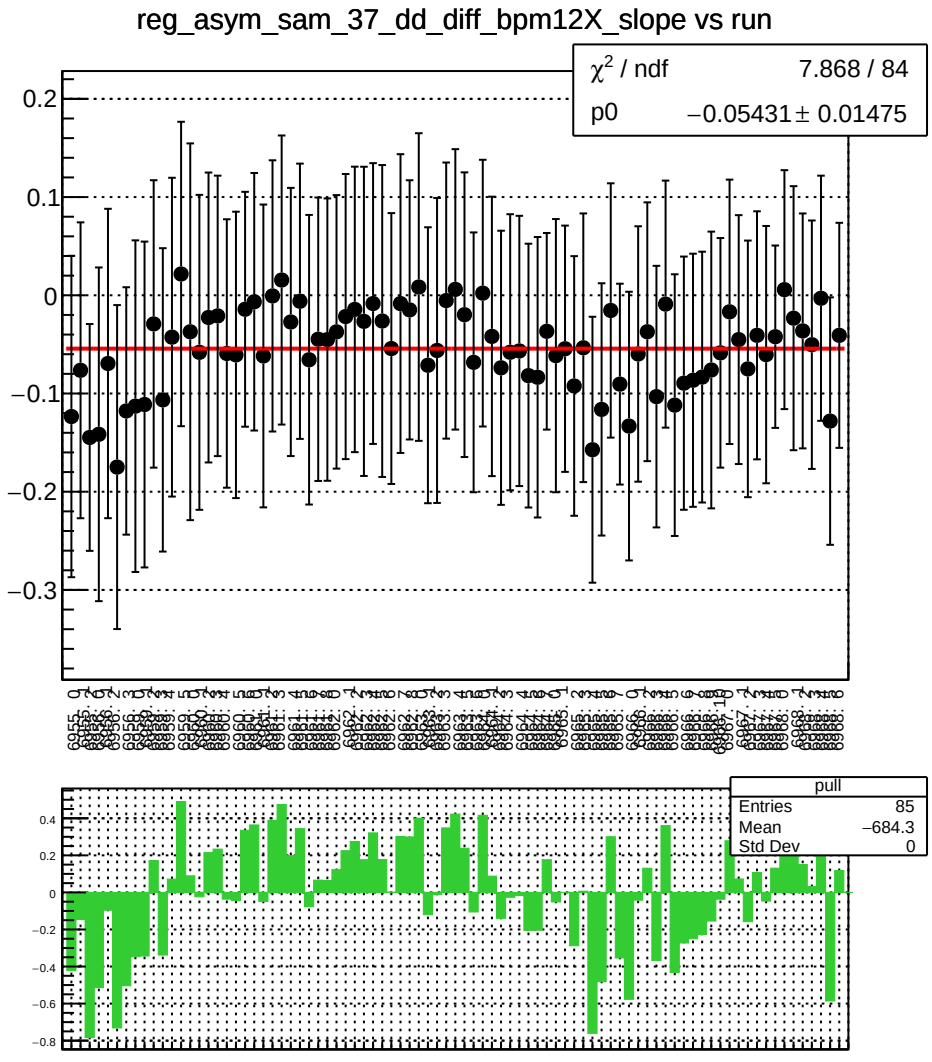

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.943 / 84
p0 −7.536 ± 0.3392
pull
Entries 85
Mean −77.23
Std Dev 0

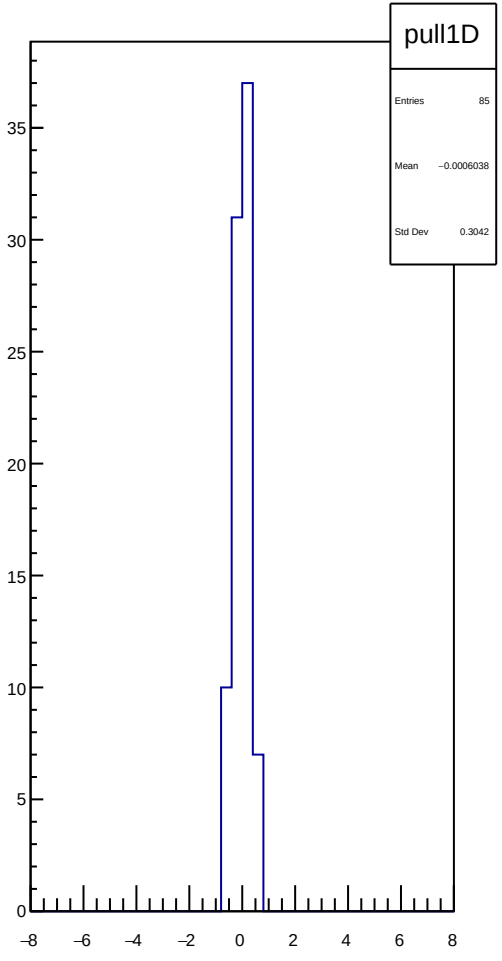

pull1D
Entries 85
Mean −0.01281
Std Dev 0.1507

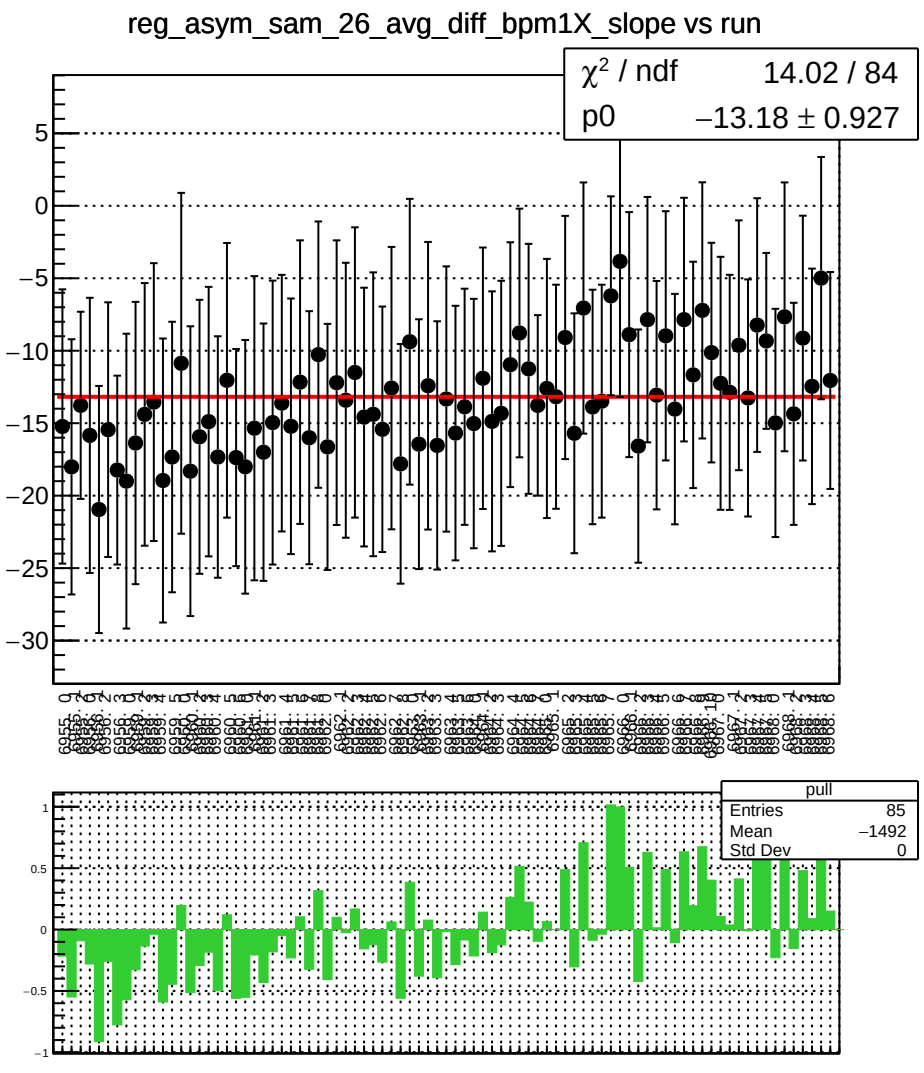

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.094 / 84
p0 −12.72 ± 0.4615
pull
Entries 85
Mean 2.853
Std Dev 33.41

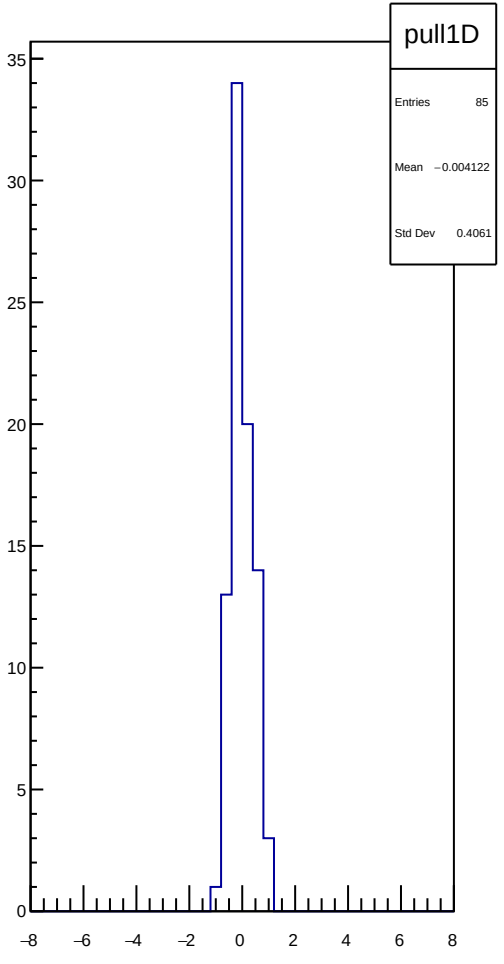

pull1D
Entries 85
Mean −0.01079
Std Dev 0.3269

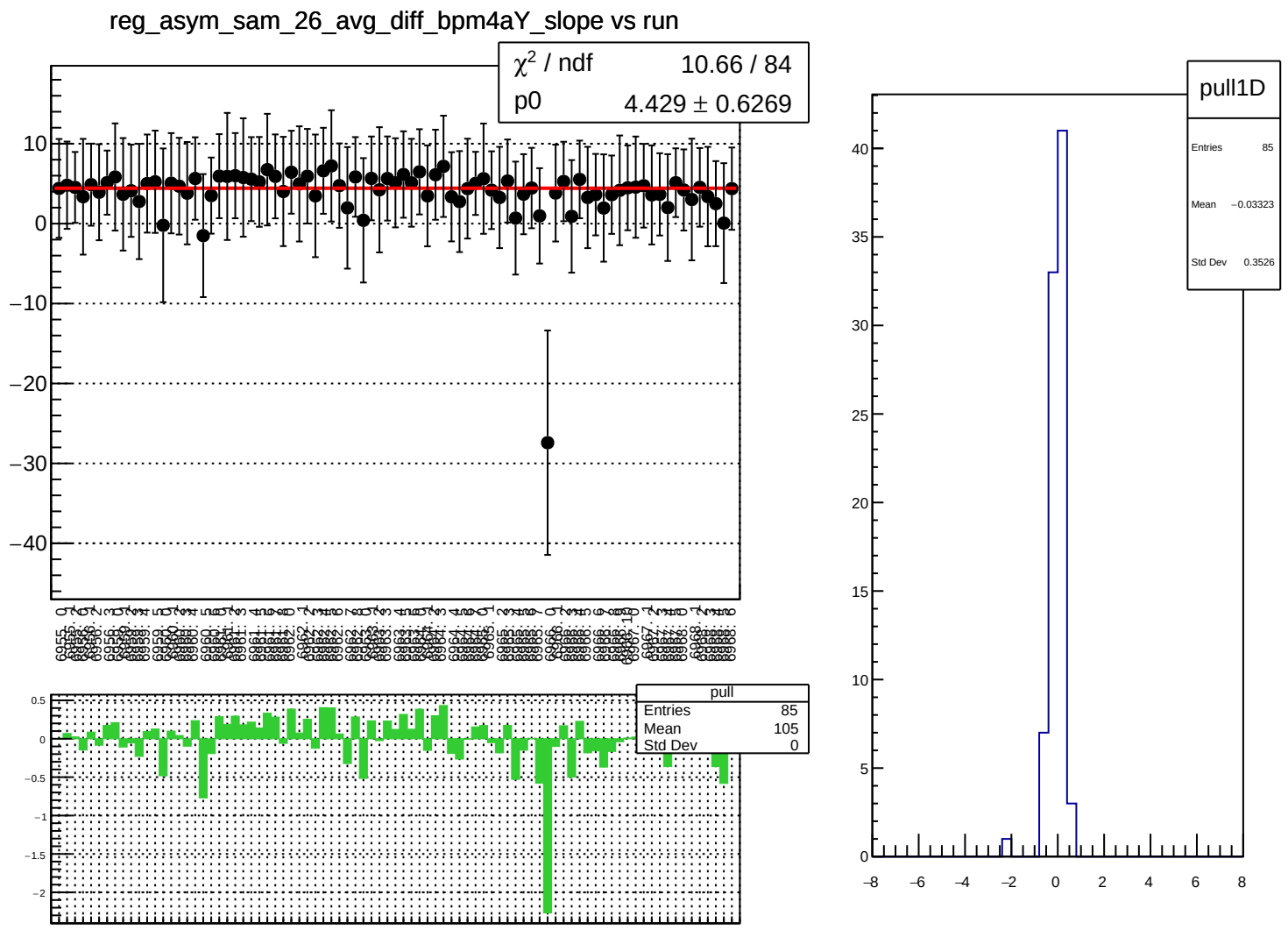

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.861 / 84
p0 23.3 ± 0.3864
pull
Entries 85
Mean −227
Std Dev 0
pull1D
Entries 85
Mean 0.01368
Std Dev 0.2127

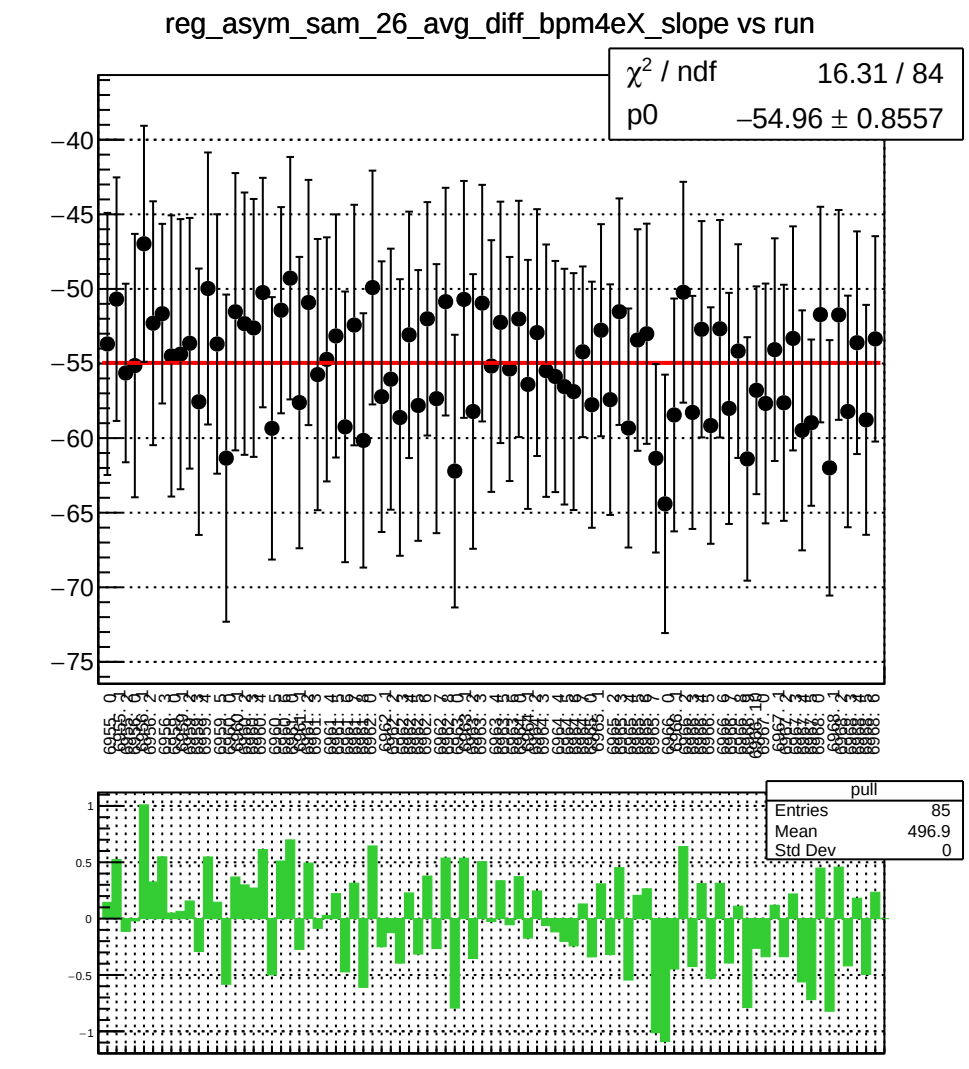

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 7.868 / 84
p0 −0.05431 ± 0.01475
pull
Entries 85
Mean −684.3
Std Dev 0

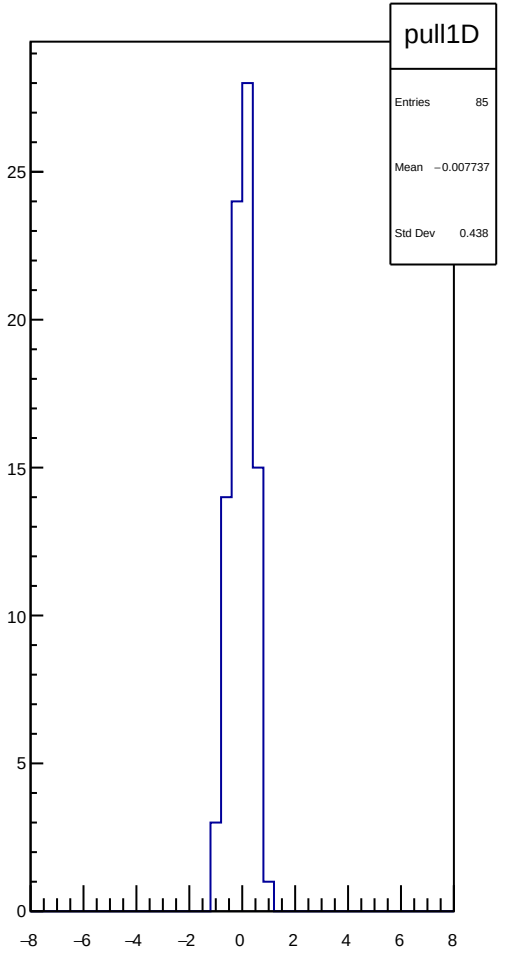

pull1D
Entries 85
Mean −0.0006038
Std Dev 0.3042

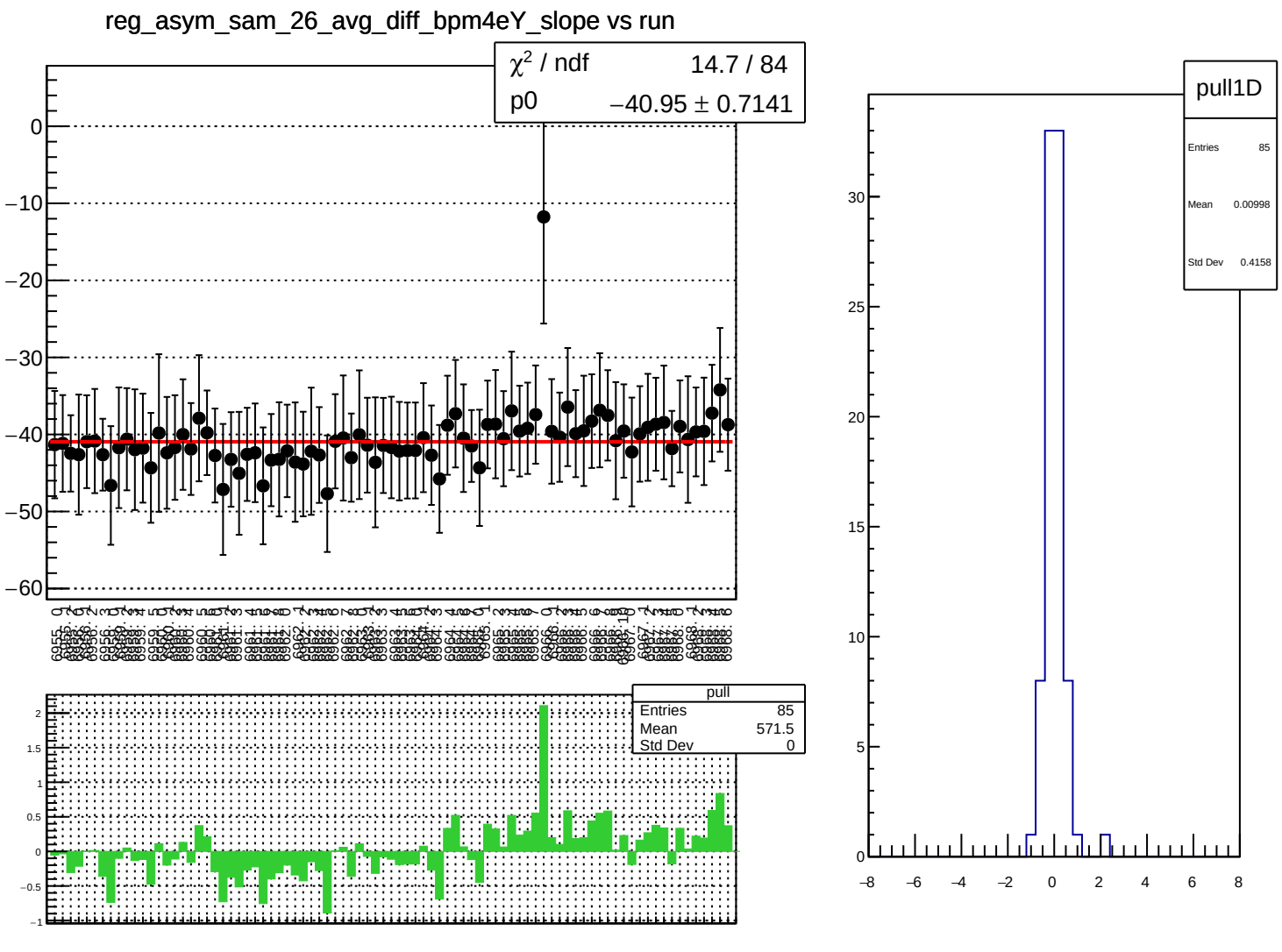

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 14.02 / 84
p0 −13.18 ± 0.927
pull
Entries 85
Mean −1492
Std Dev 0

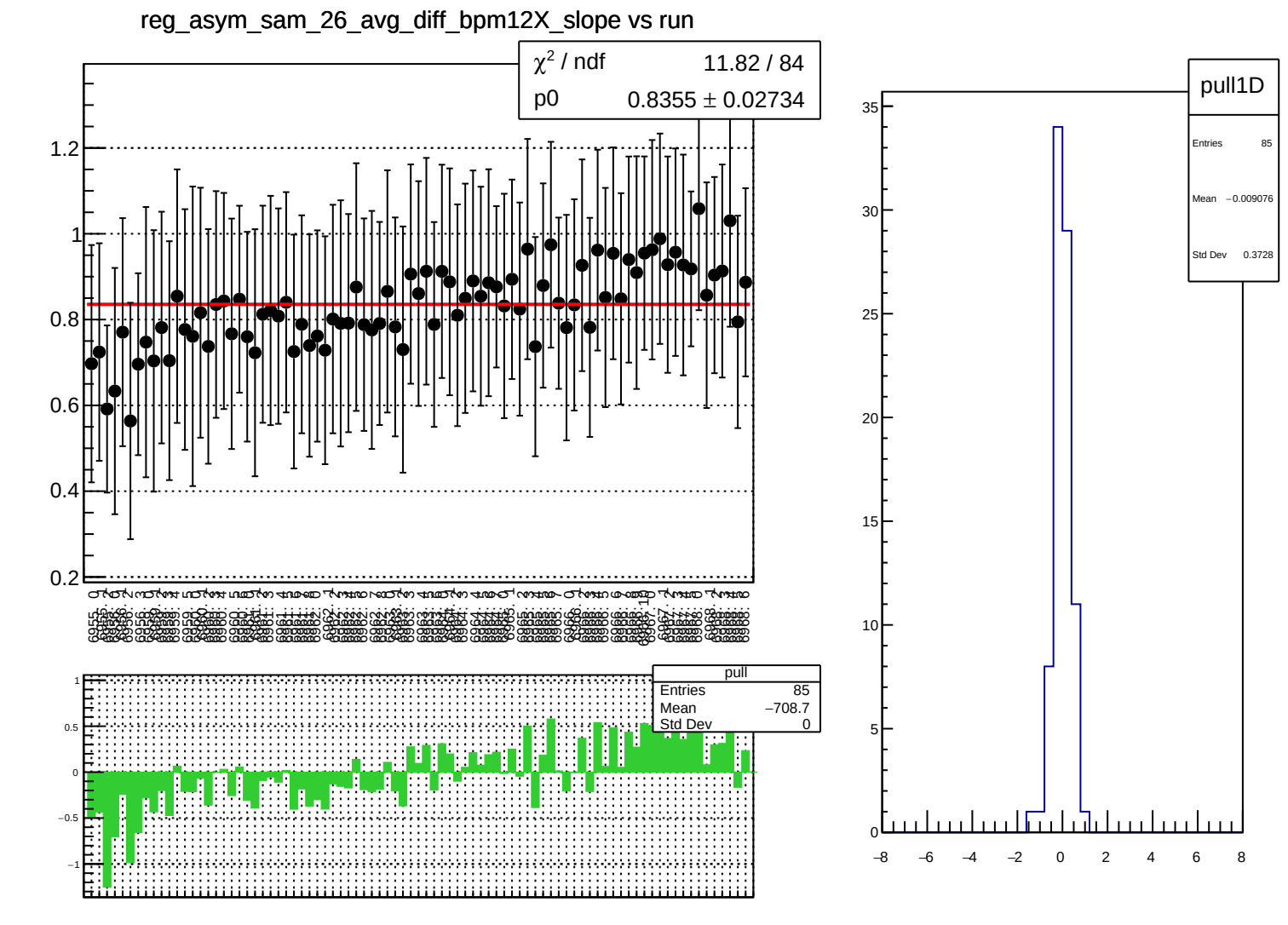

pull1D
Entries 85
Mean −0.004122
Std Dev 0.4061

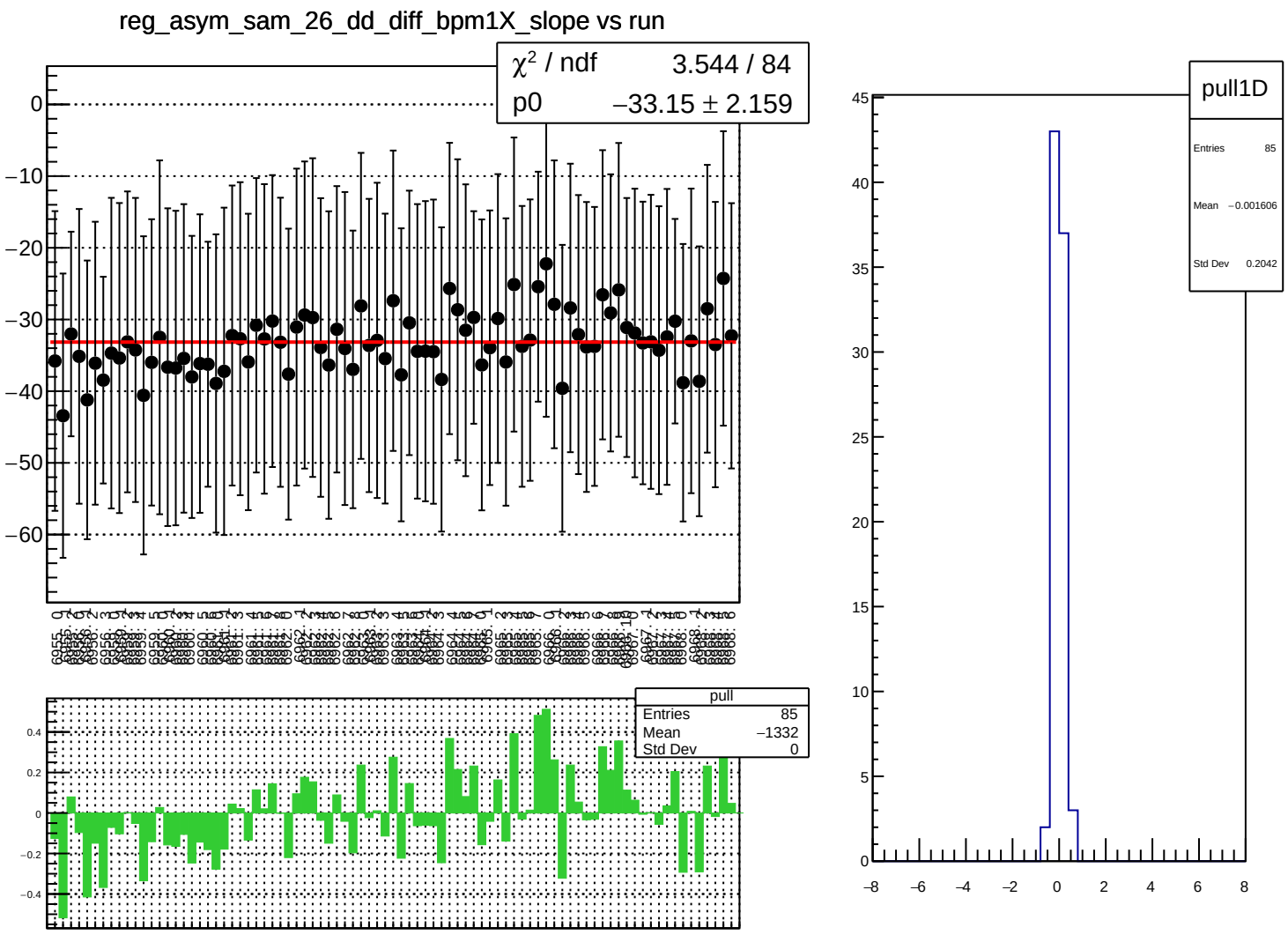

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.66 / 84
p0 4.429 ± 0.6269
pull
Entries 85
Mean 105
Std Dev 0
pull1D
Entries 85
Mean −0.03323
Std Dev 0.3526

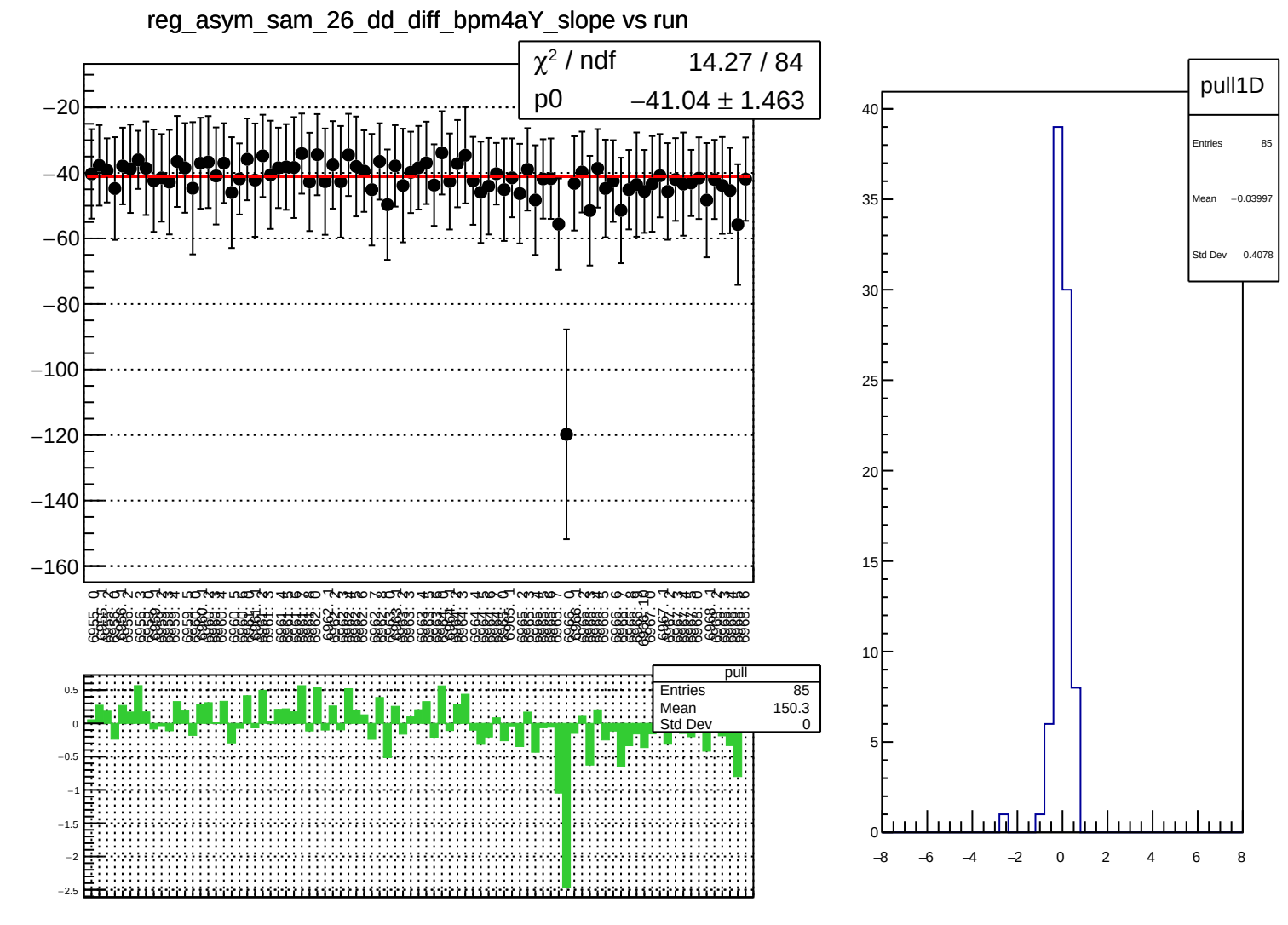

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.31 / 84
p0 −54.96 ± 0.8557
−40
−45
−50
−55
−60
−65
−70
−75
pull
Entries 85
Mean 496.9
Std Dev 0
1
0.5
0
−0.5
−1

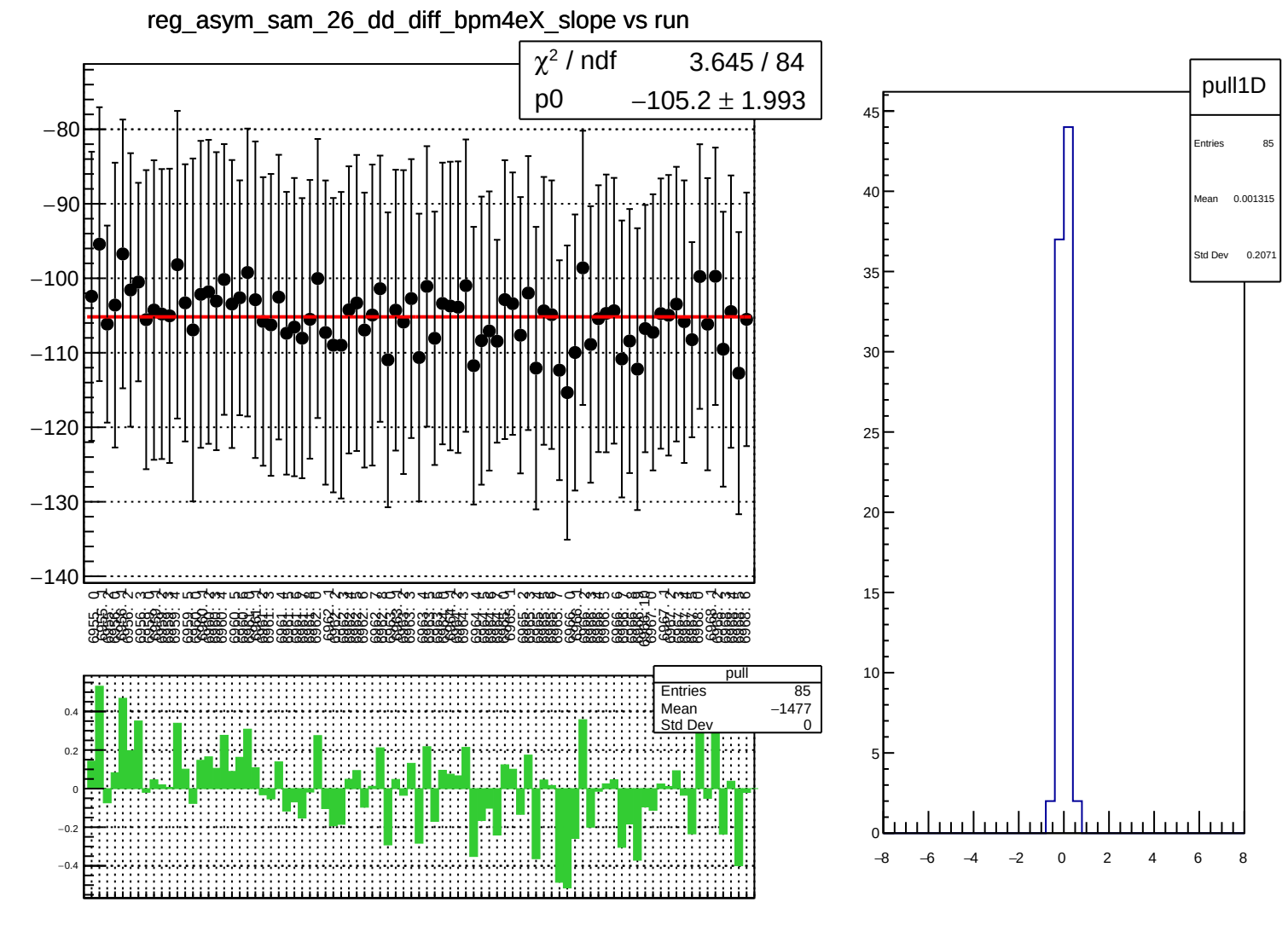

pull1D
Entries 85
Mean −0.007737
Std Dev 0.438
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

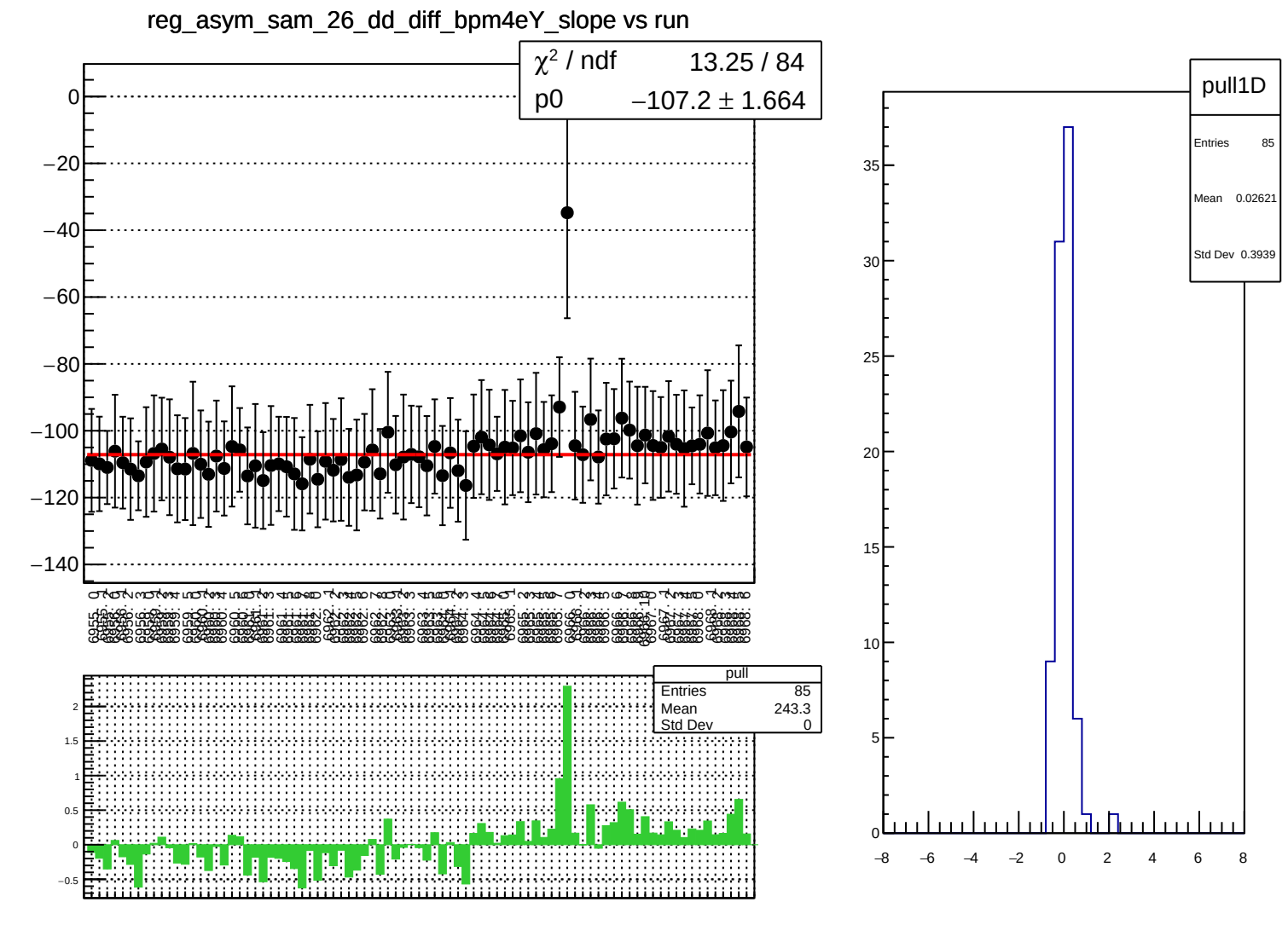

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.7 / 84
p0 −40.95 ± 0.7141
pull
Entries 85
Mean 571.5
Std Dev 0
pull1D
Entries 85
Mean 0.00998
Std Dev 0.4158

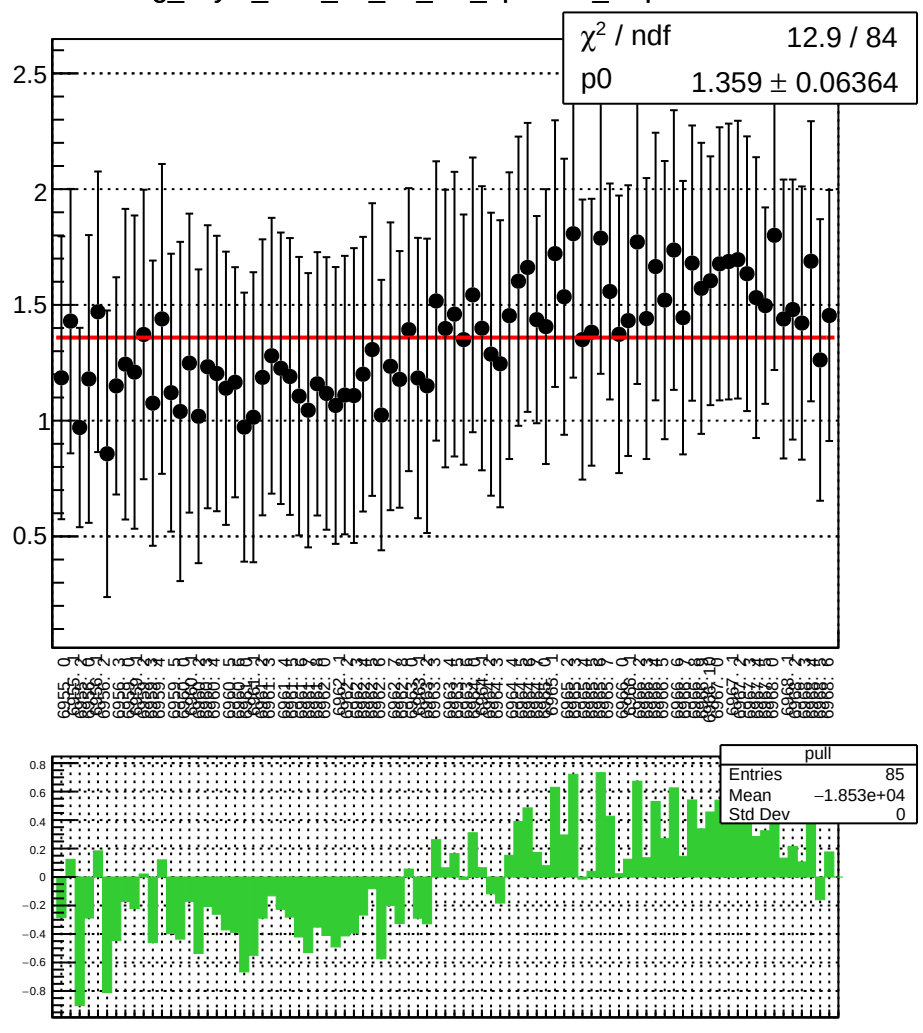

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 11.82 / 84
p0 0.8355 ± 0.02734
pull
Entries 85
Mean −708.7
Std Dev 0
pull1D
Entries 85
Mean −0.009076
Std Dev 0.3728

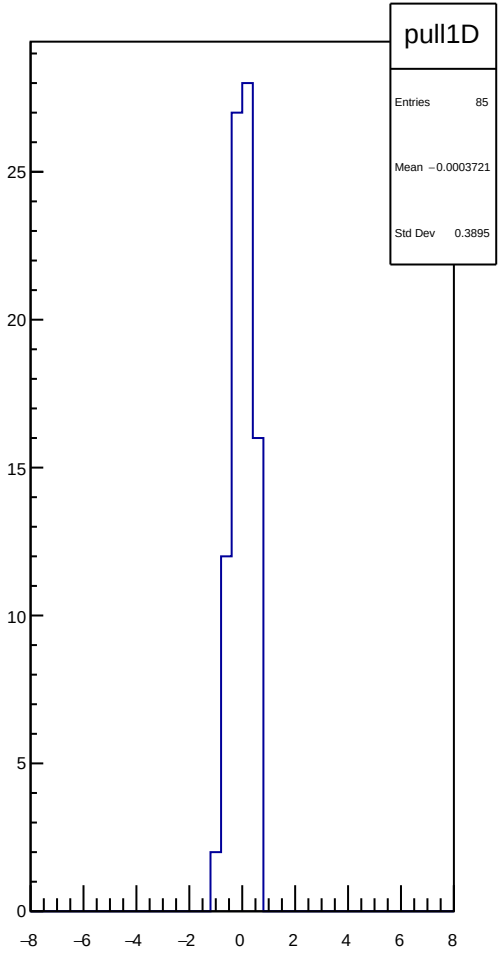

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 3.544 / 84
p0 −33.15 ± 2.159
pull
Entries 85
Mean −1332
Std Dev 0
pull1D
Entries 85
Mean −0.001606
Std Dev 0.2042

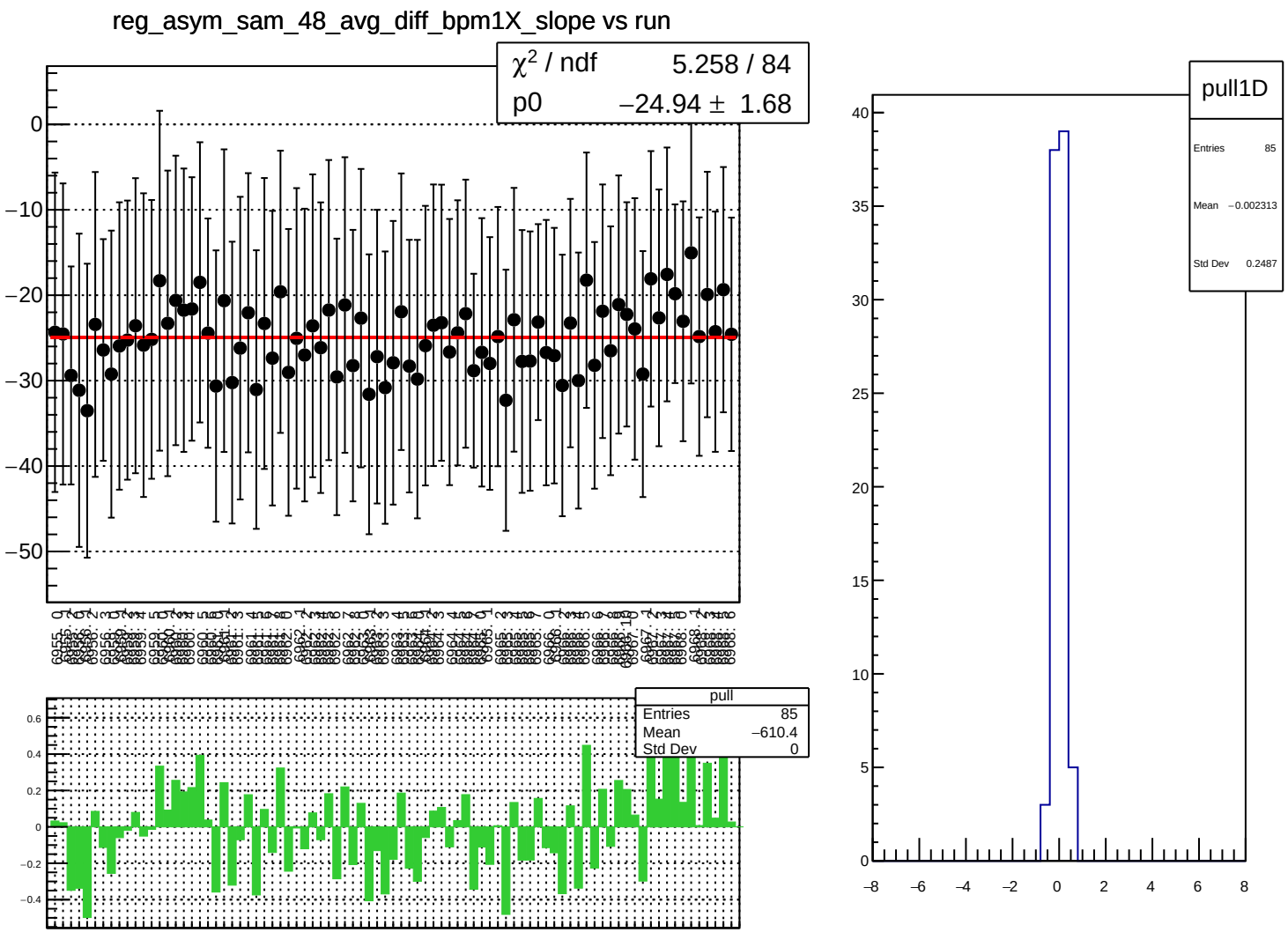

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.27 / 84
p0 −41.04 ± 1.463
pull
Entries 85
Mean 150.3
Std Dev 0
pull1D
Entries 85
Mean −0.03997
Std Dev 0.4078

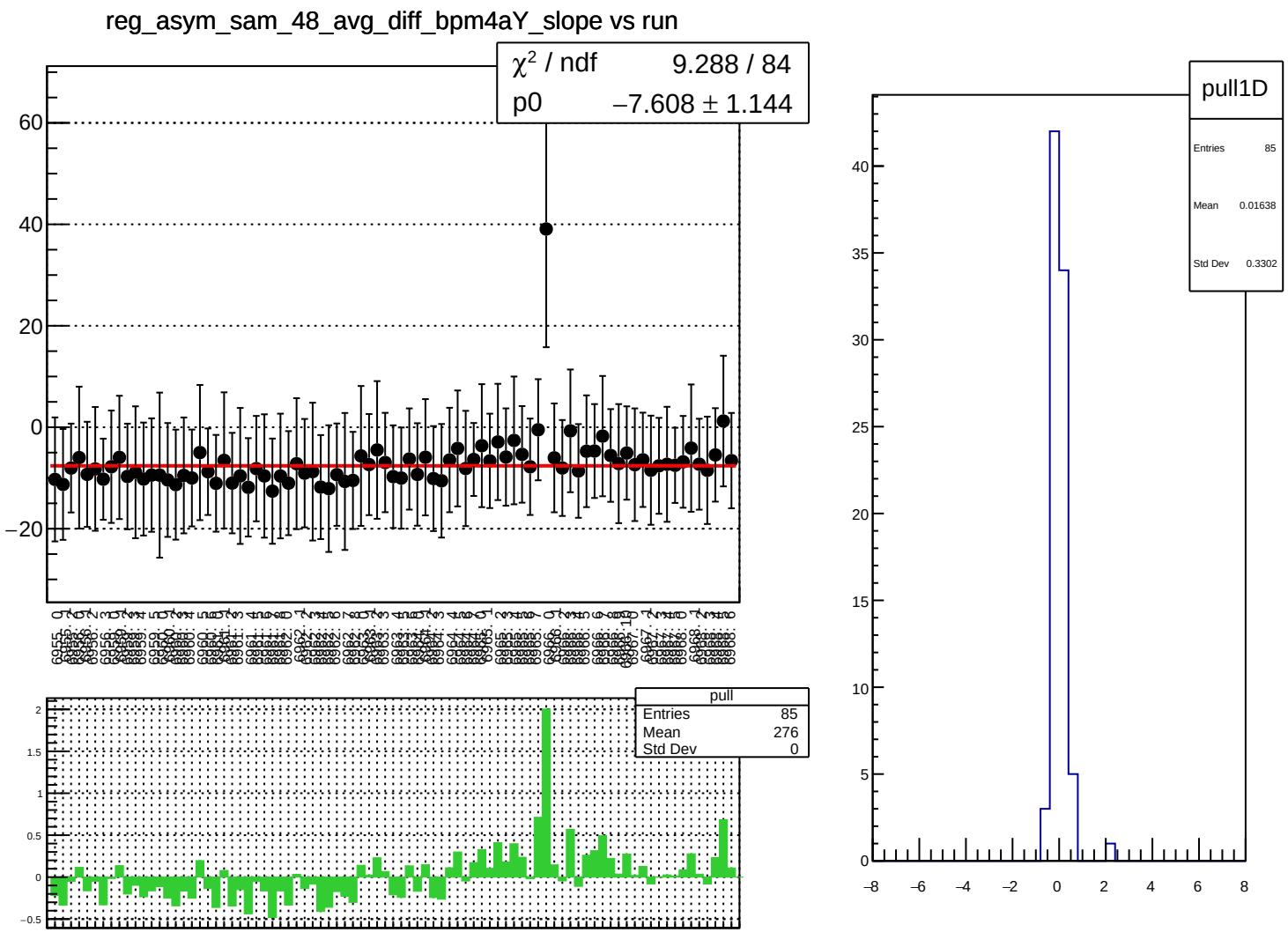

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.645 / 84
p0 −105.2 ± 1.993
pull
Entries 85
Mean −1477
Std Dev 0
pull1D
Entries 85
Mean 0.001315
Std Dev 0.2071

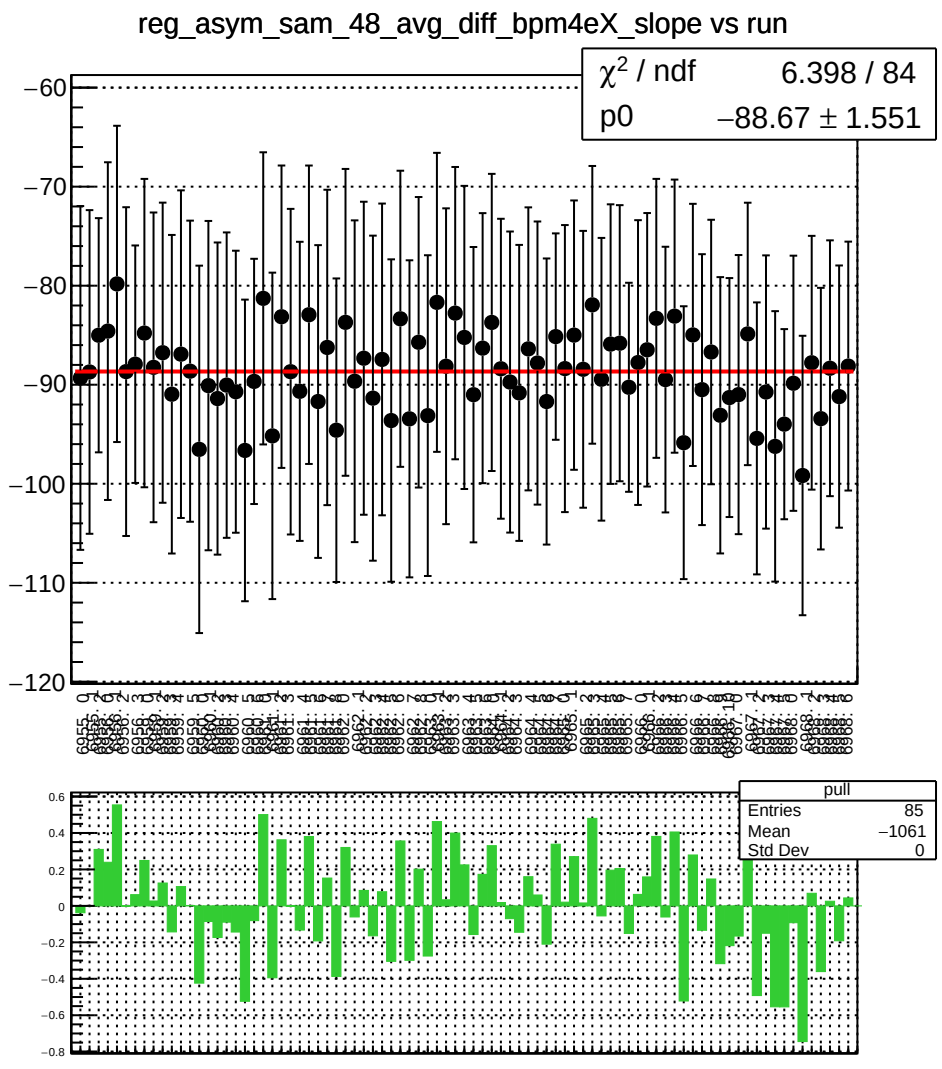

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.25 / 84
p0 −107.2 ± 1.664
0
−20
−40
−60
−80
−100
−120
−140
pull
Entries 85
Mean 243.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 85
Mean 0.02621
Std Dev 0.3939
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

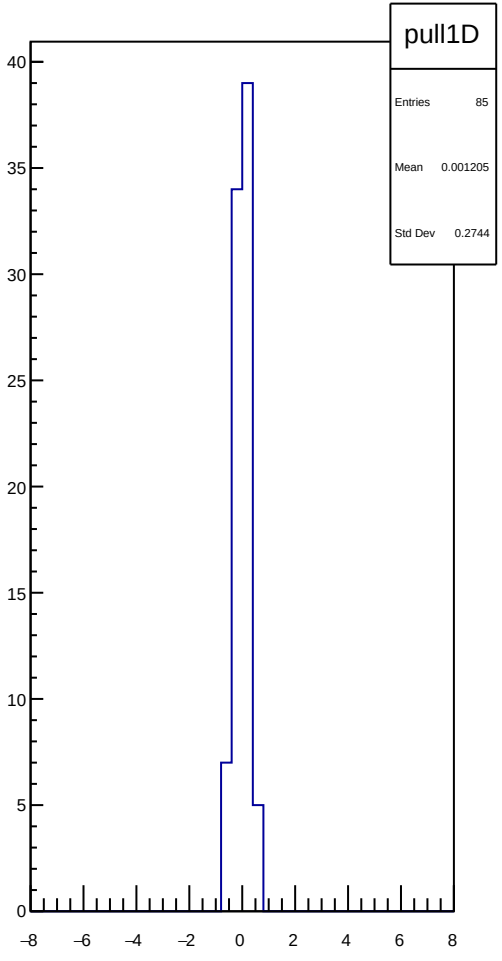

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 12.9 / 84
p0 1.359 ± 0.06364
pull
Entries 85
Mean −1.853e+04
Std Dev 0

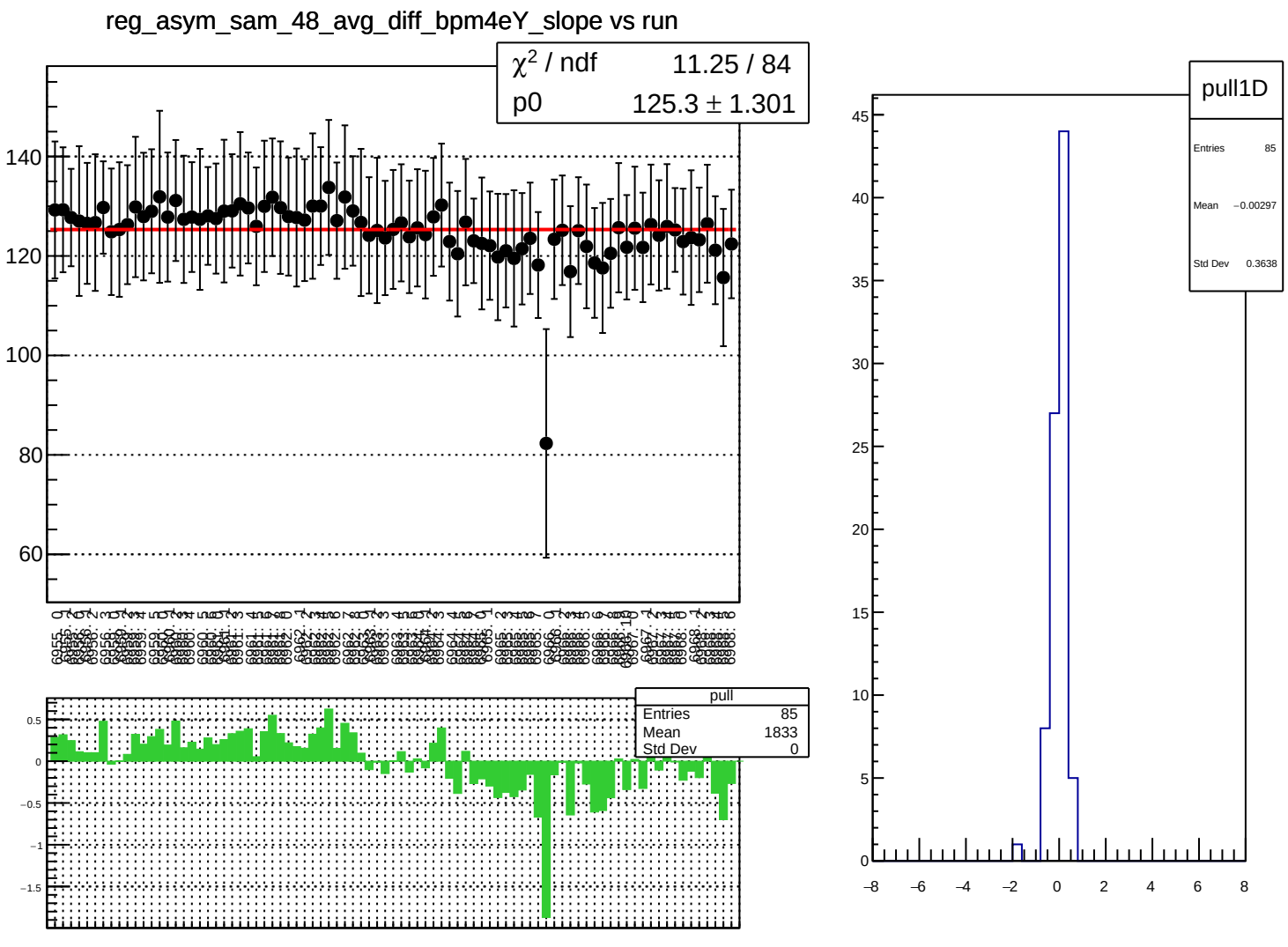

pull1D
Entries 85
Mean −0.0003721
Std Dev 0.3895

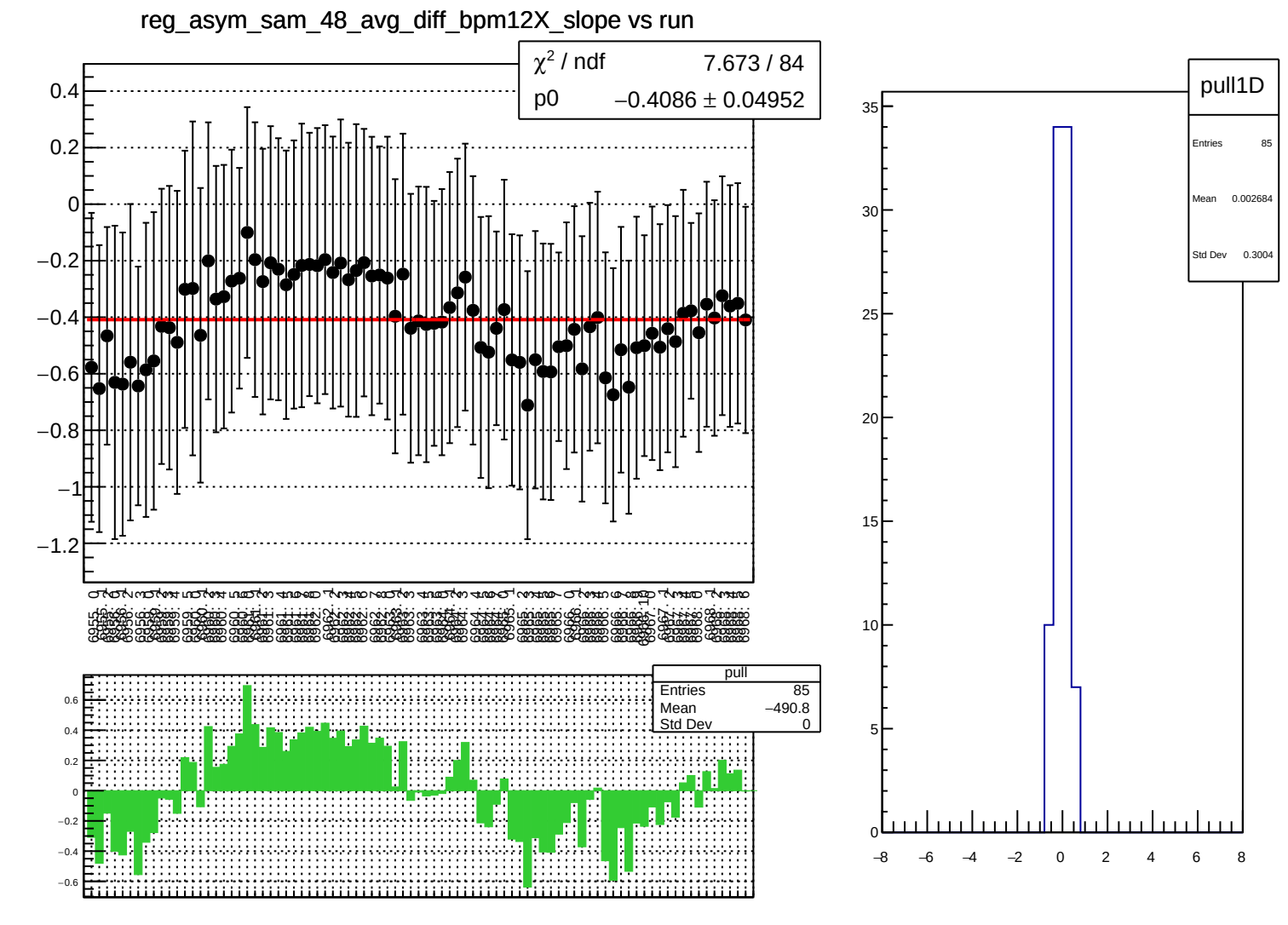

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 5.258 / 84
p0 −24.94 ± 1.68
pull
Entries 85
Mean −610.4
Std Dev 0
pull1D
Entries 85
Mean −0.002313
Std Dev 0.2487

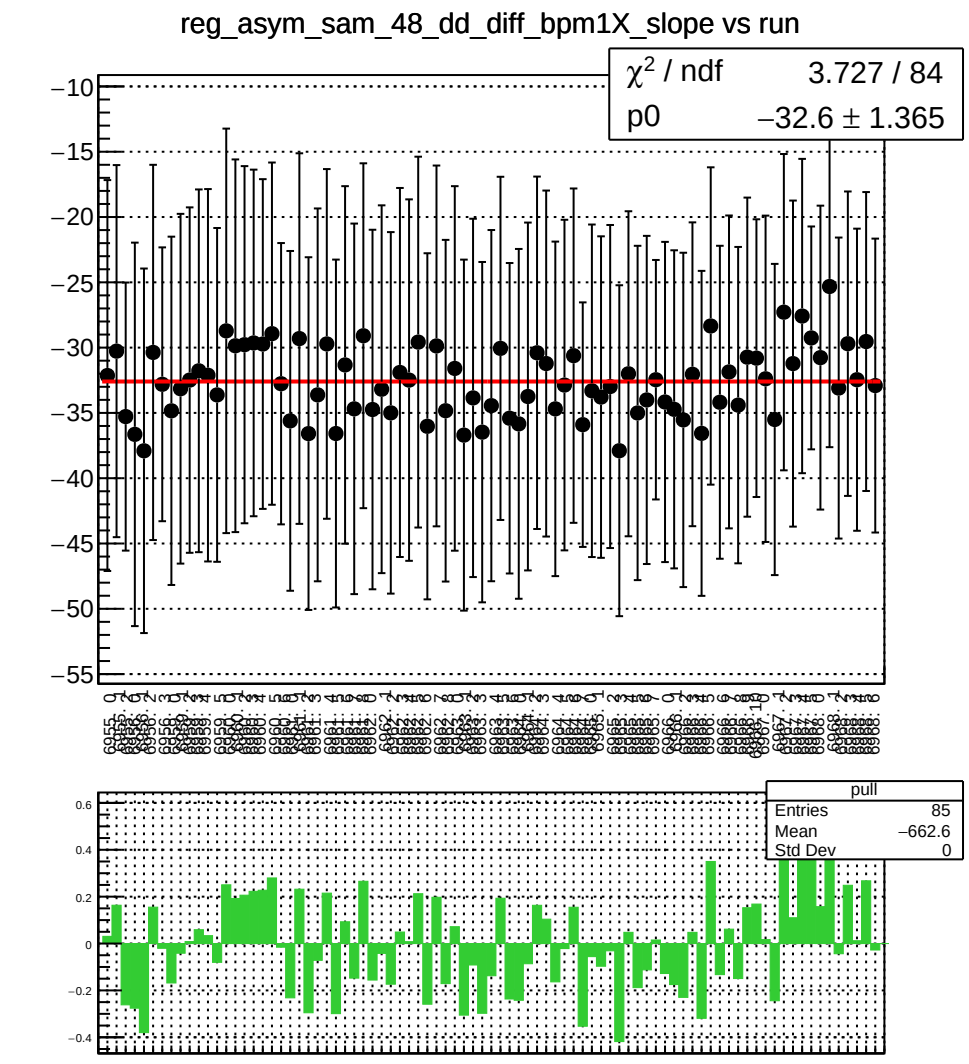

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.288 / 84
p0 −7.608 ± 1.144
pull
Entries 85
Mean 276
Std Dev 0
pull1D
Entries 85
Mean 0.01638
Std Dev 0.3302

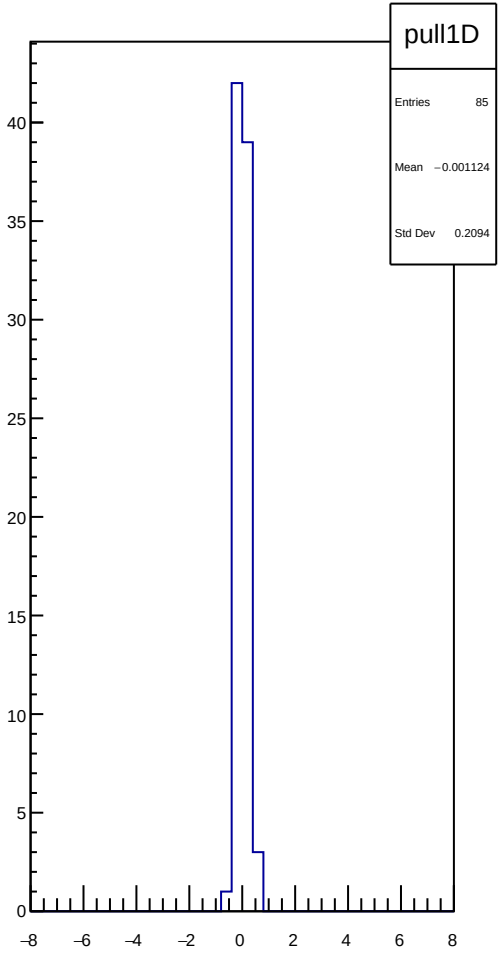

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.398 / 84
p0 −88.67 ± 1.551
pull
Entries 85
Mean −1061
Std Dev 0

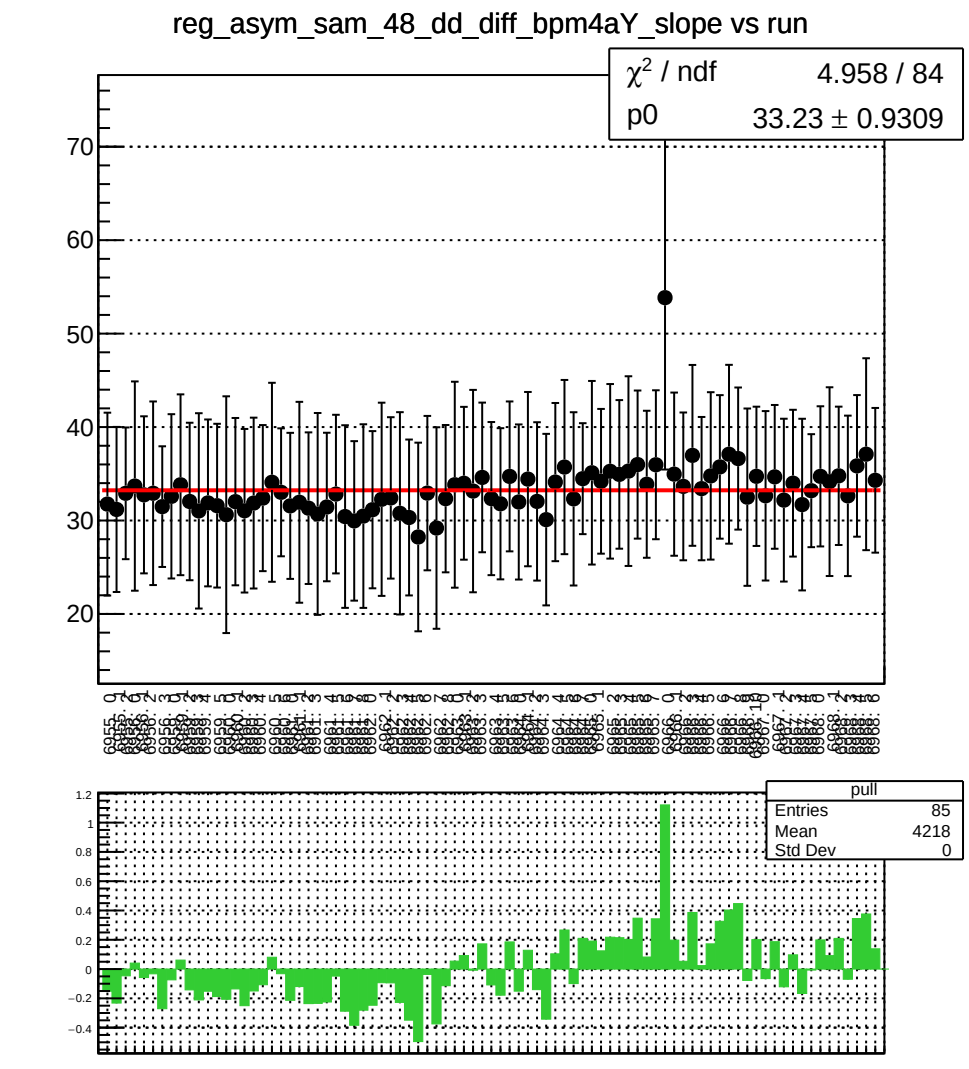

pull1D
Entries 85
Mean 0.001205
Std Dev 0.2744

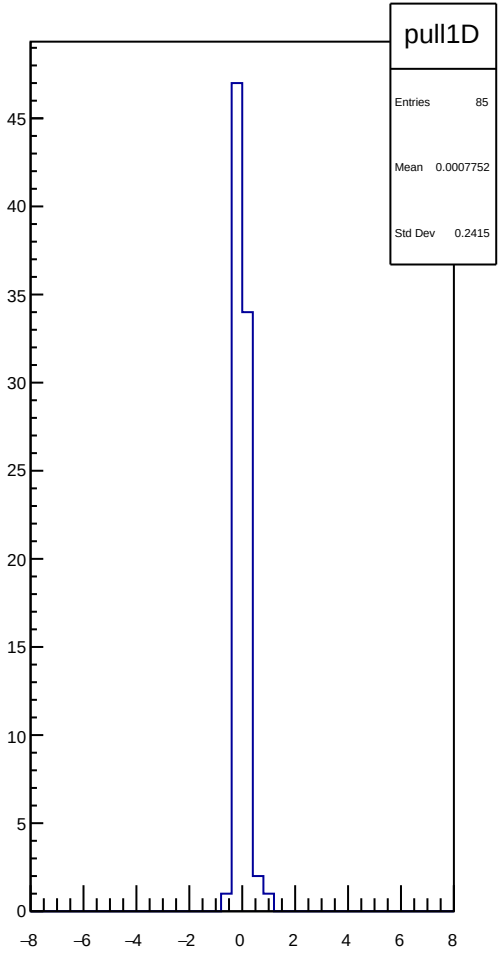

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.25 / 84
p0 125.3 ± 1.301
140
120
100
80
60
pull
Entries 85
Mean 1833
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.00297
Std Dev 0.3638
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

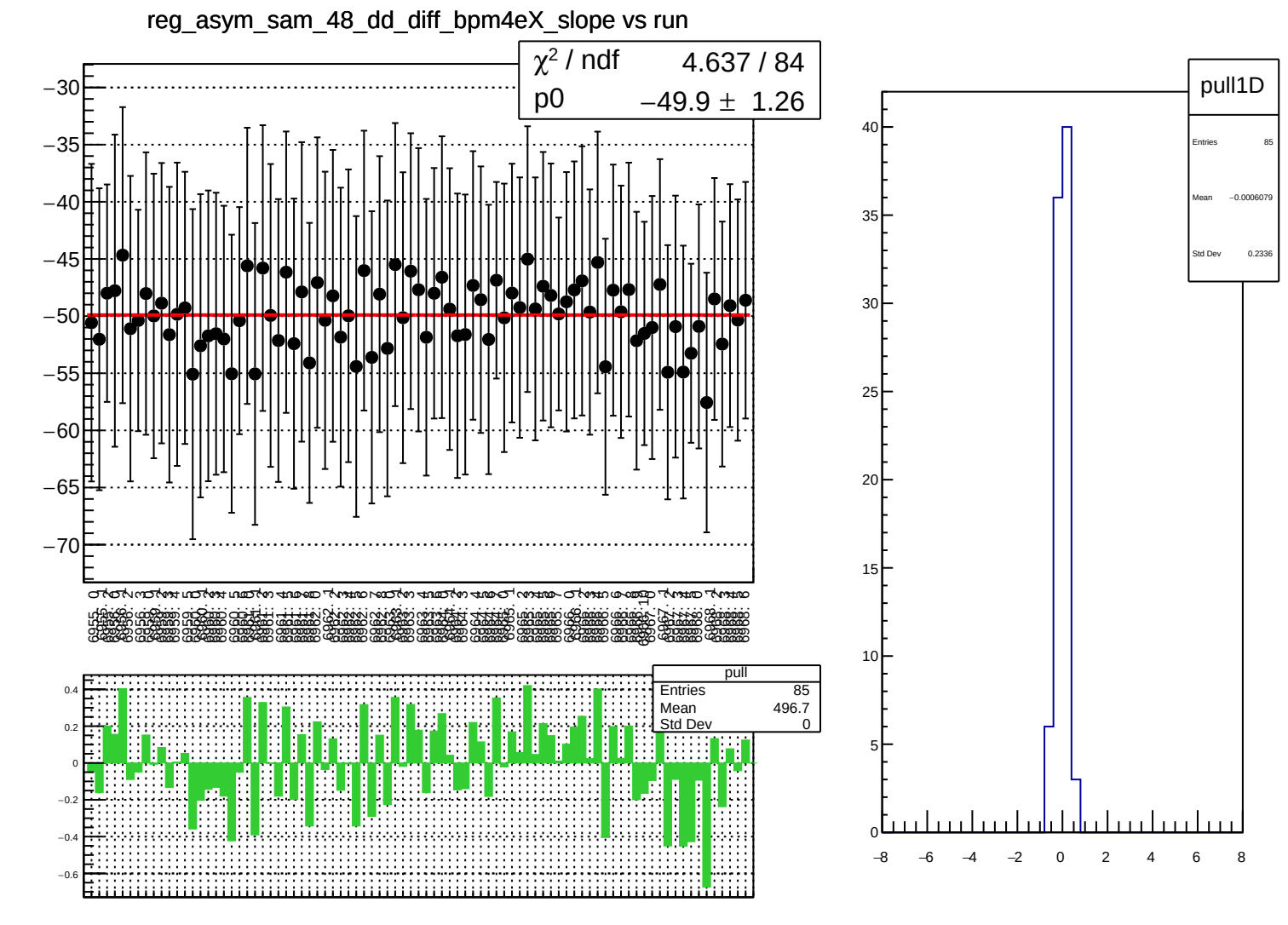

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 7.673 / 84
p0 −0.4086 ± 0.04952
pull
Entries 85
Mean −490.8
Std Dev 0
pull1D
Entries 85
Mean 0.002684
Std Dev 0.3004

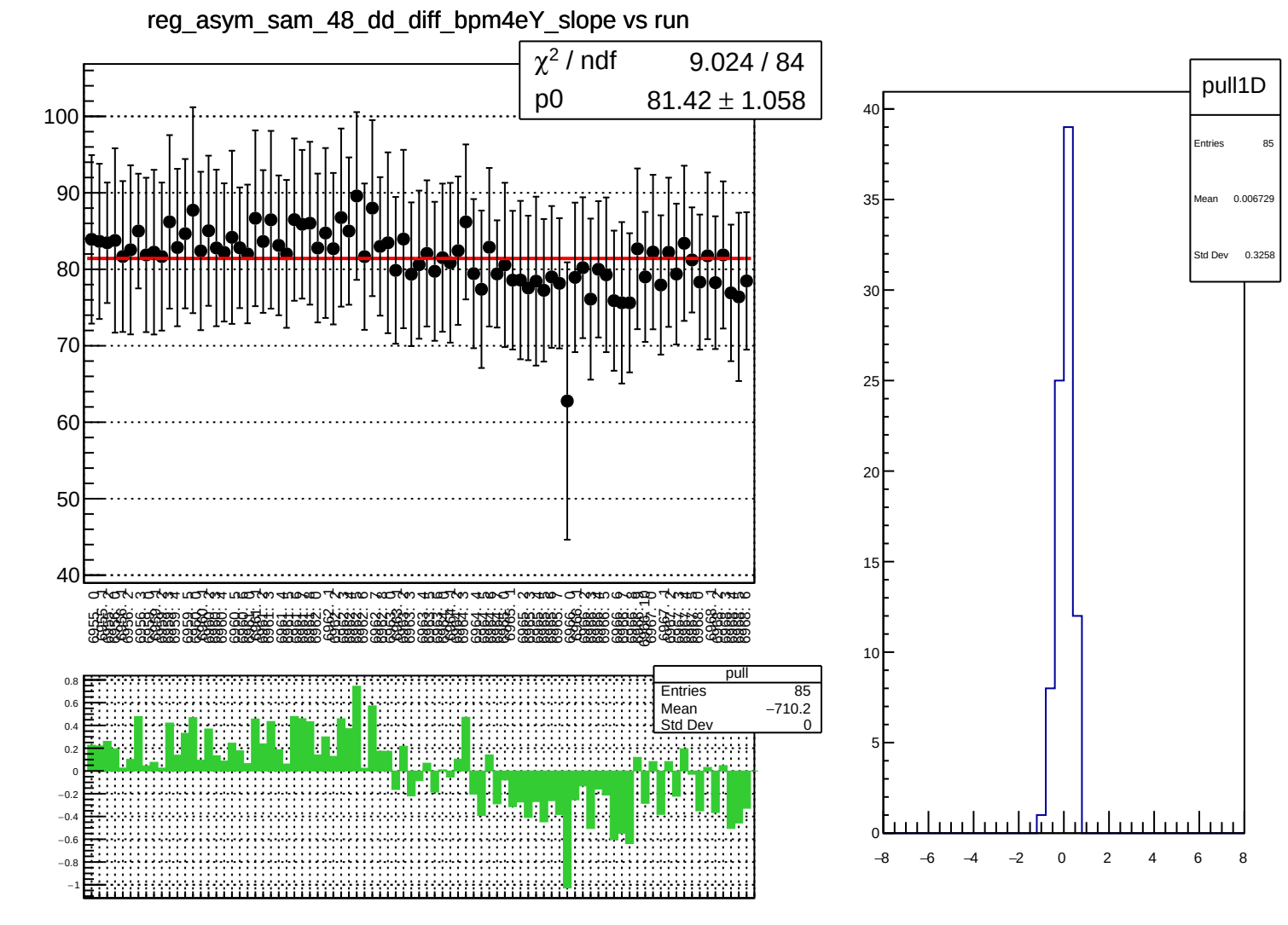

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.727 / 84
p0 −32.6 ± 1.365
pull
Entries 85
Mean −662.6
Std Dev 0

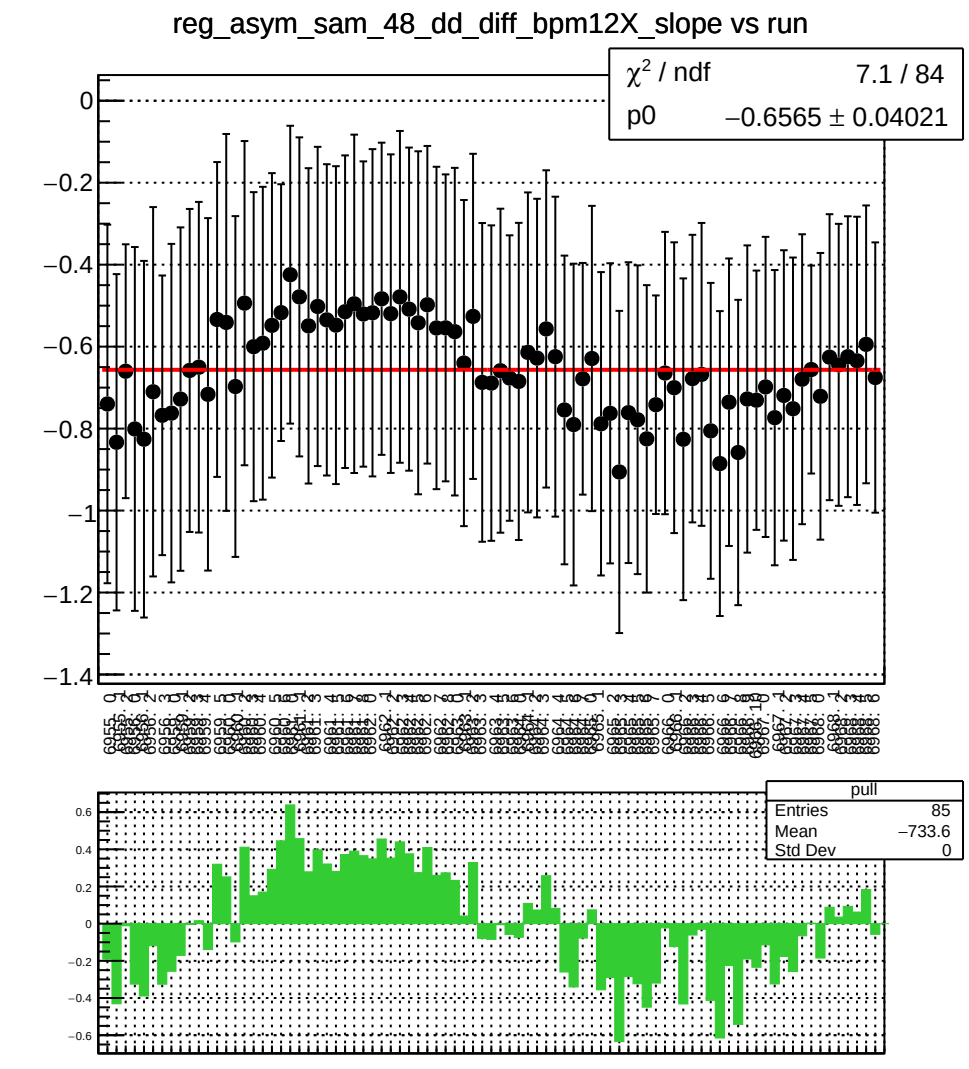

pull1D
Entries 85
Mean −0.001124
Std Dev 0.2094

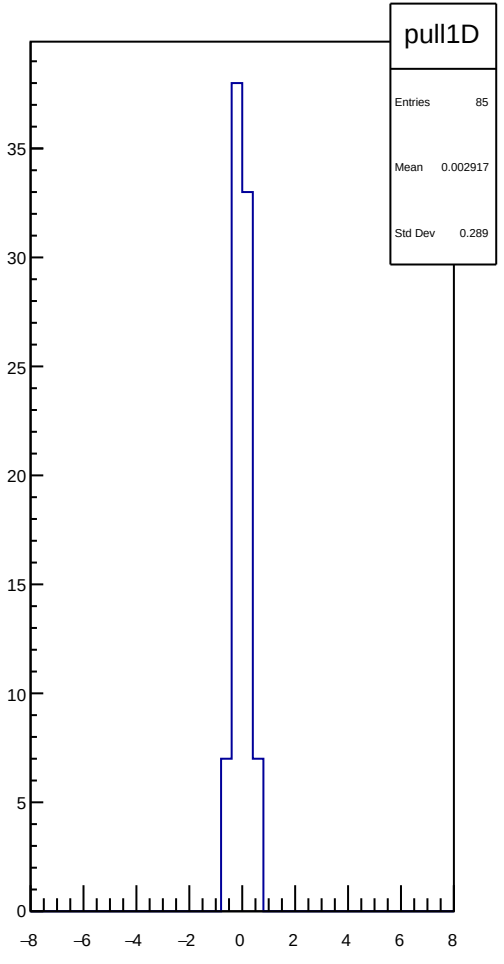

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.958 / 84
p0 33.23 ± 0.9309
pull
Entries 85
Mean 4218
Std Dev 0

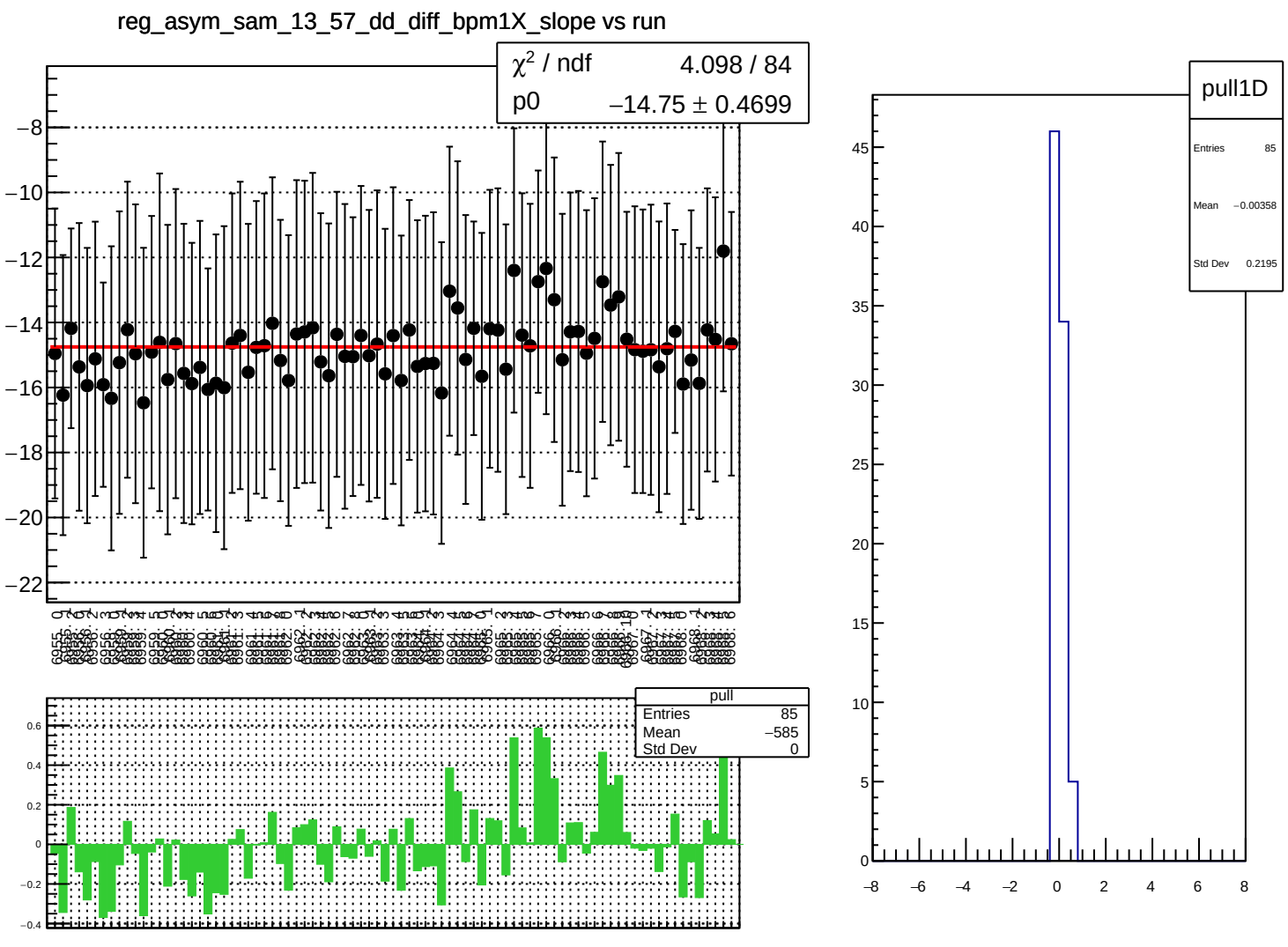

pull1D
Entries 85
Mean 0.0007752
Std Dev 0.2415

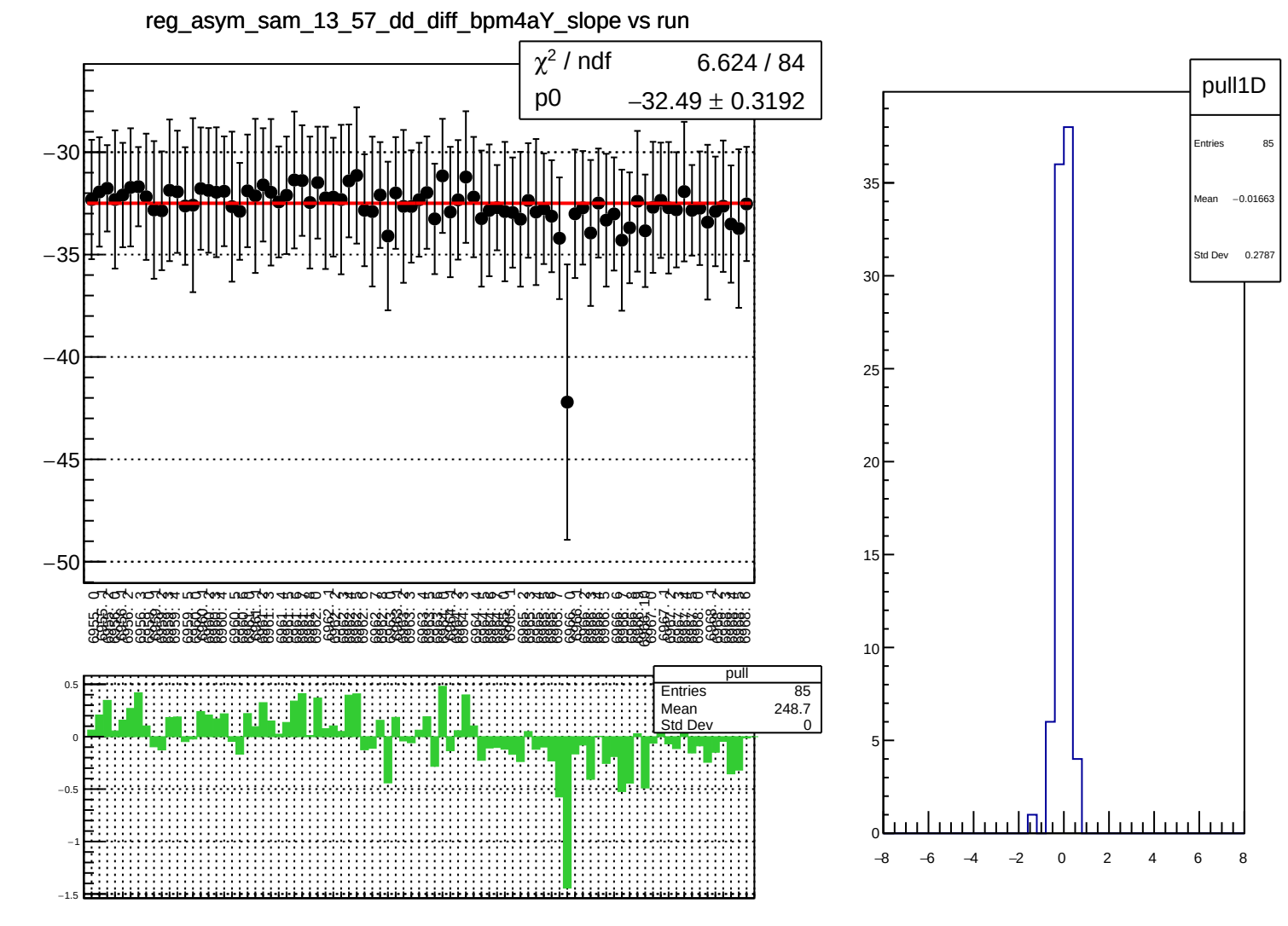

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.637 / 84
p0 −49.9 ± 1.26
pull
Entries 85
Mean 496.7
Std Dev 0
pull1D
Entries 85
Mean −0.0006079
Std Dev 0.2336

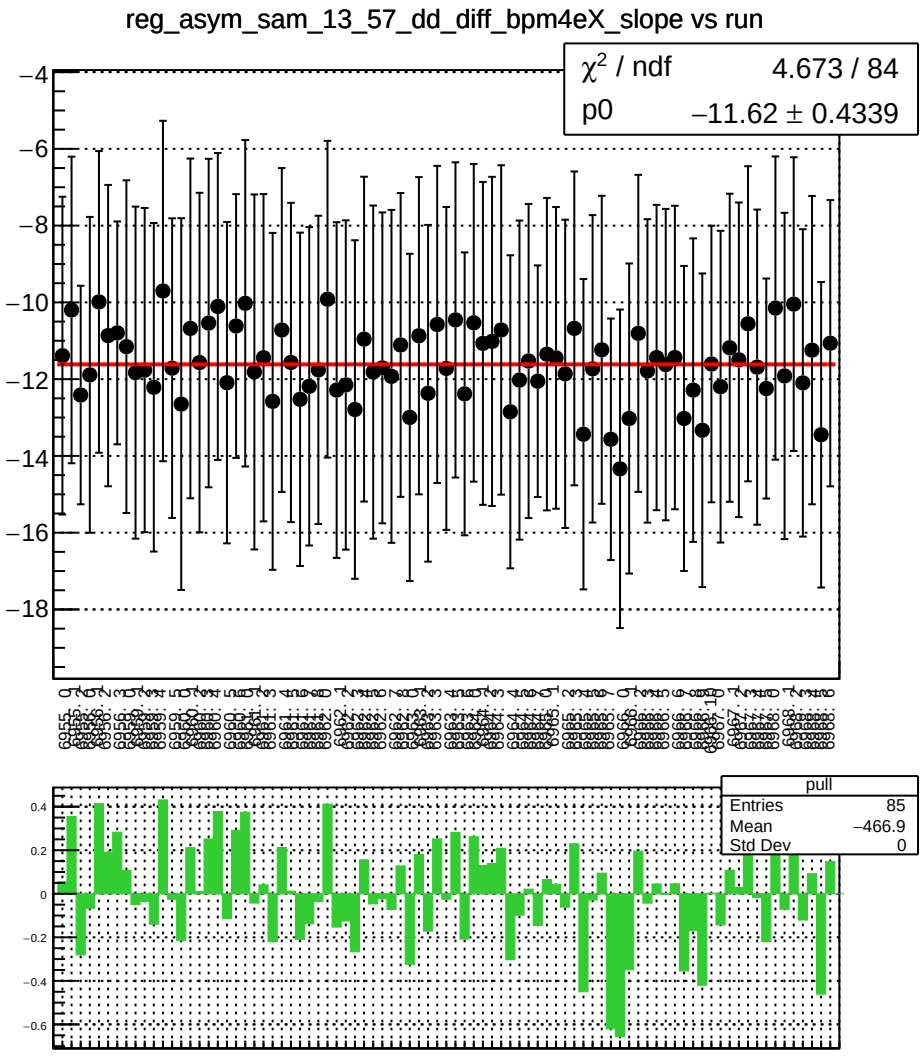

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.024 / 84
p0 81.42 ± 1.058
pull
Entries 85
Mean −710.2
Std Dev 0
pull1D
Entries 85
Mean 0.006729
Std Dev 0.3258

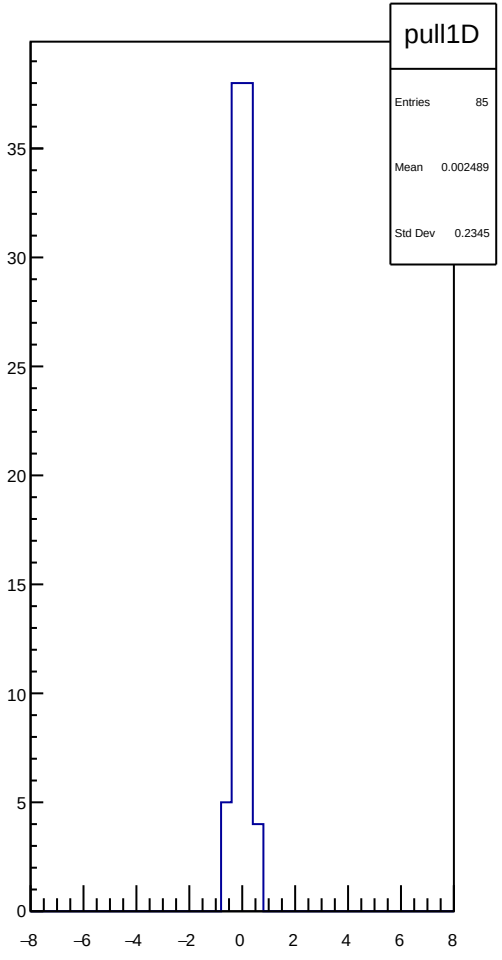

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 7.1 / 84
p0 −0.6565 ± 0.04021
pull
Entries 85
Mean −733.6
Std Dev 0

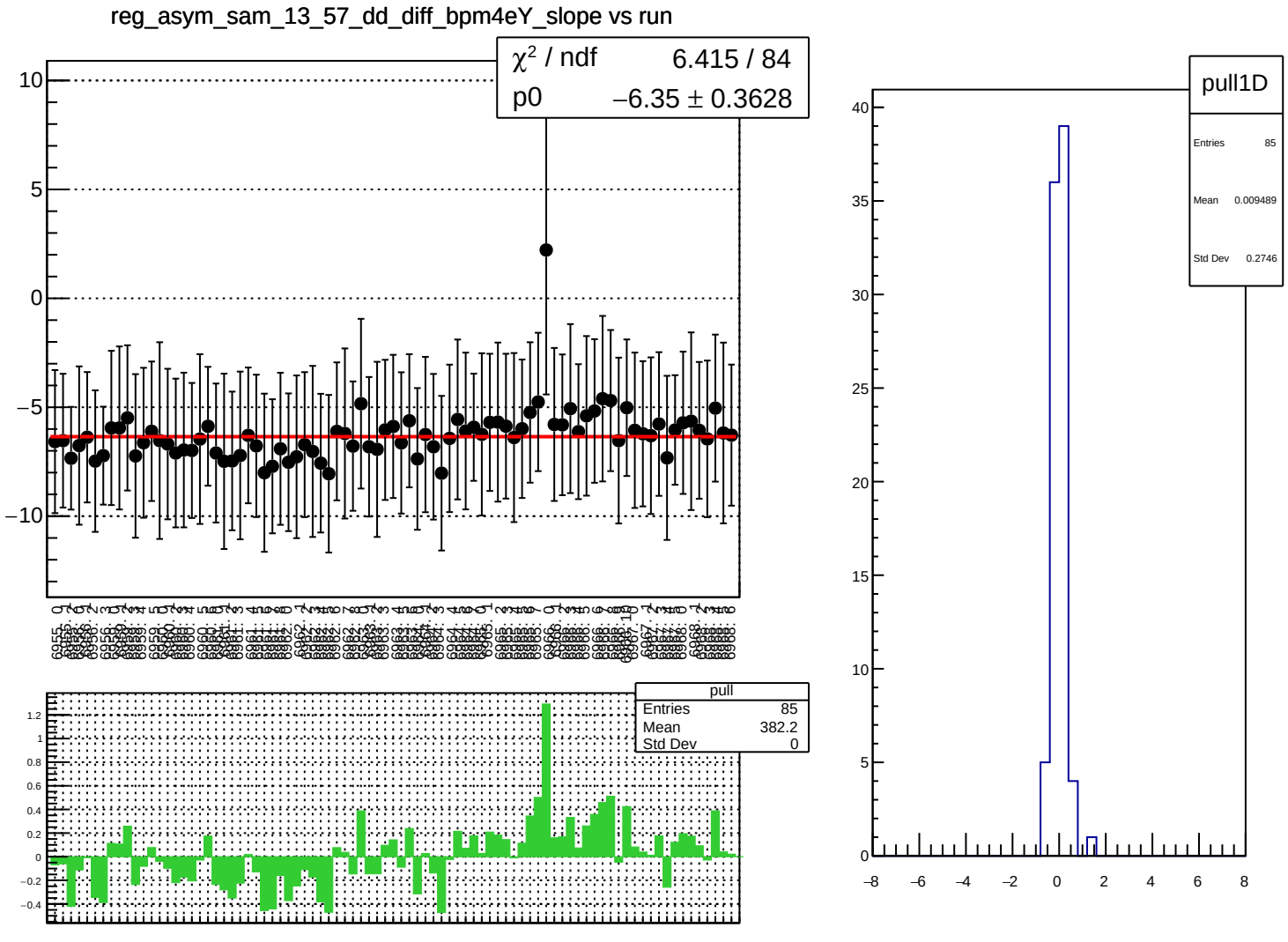

pull1D
Entries 85
Mean 0.002917
Std Dev 0.289

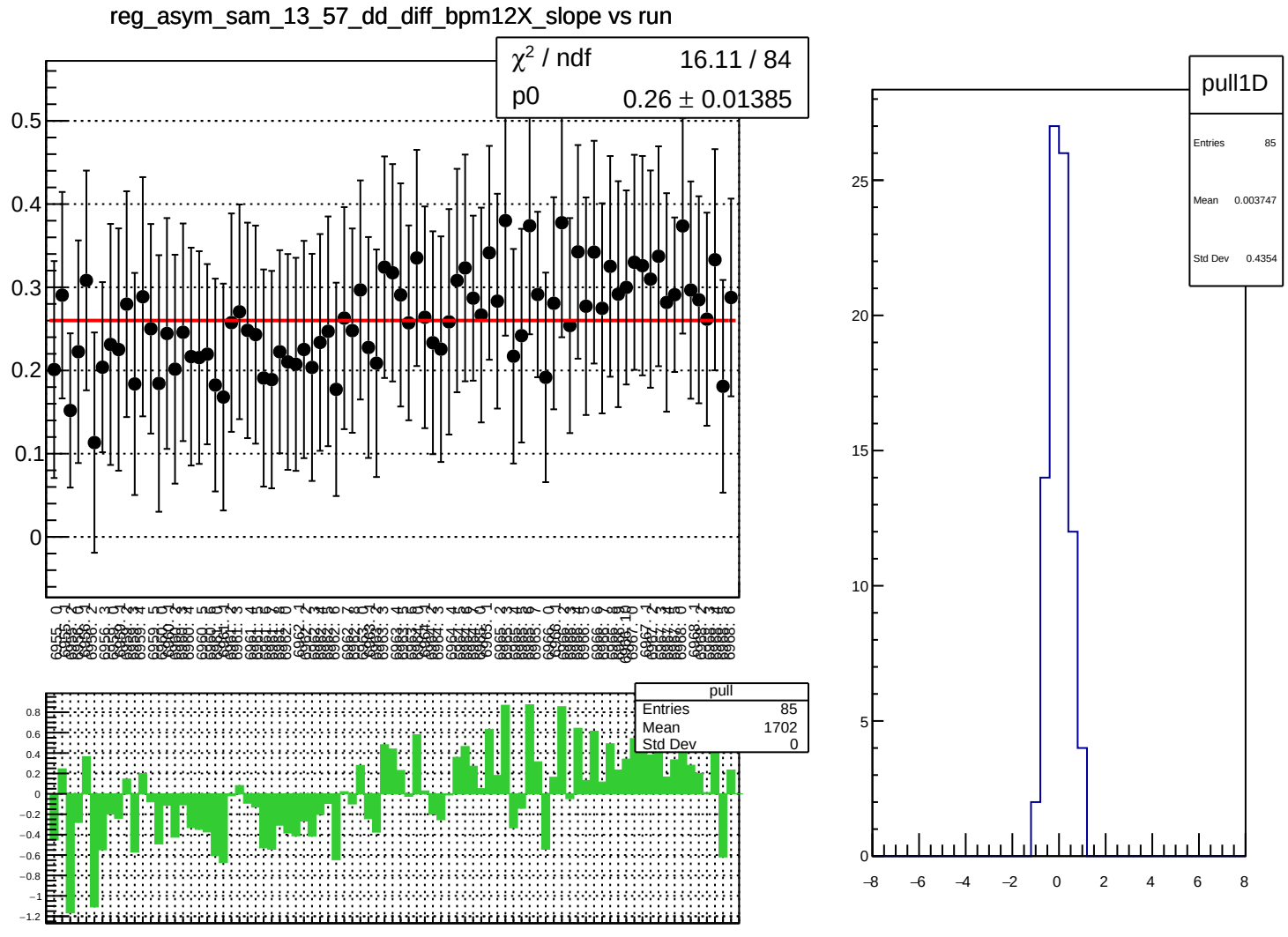

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 4.098 / 84
p0 −14.75 ± 0.4699
pull
Entries 85
Mean −585
Std Dev 0
pull1D
Entries 85
Mean −0.00358
Std Dev 0.2195

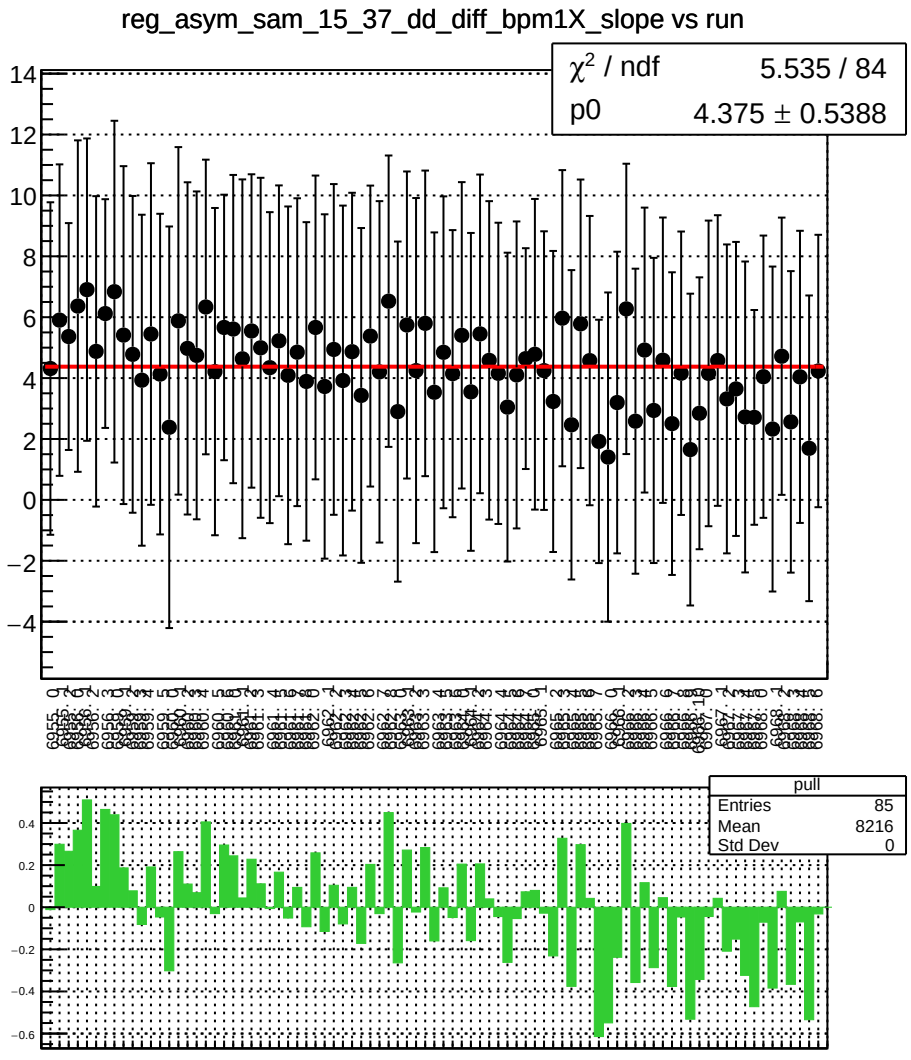

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.624 / 84
p0 −32.49 ± 0.3192
−30
−35
−40
−45
−50
pull
Entries 85
Mean 248.7
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.01663
Std Dev 0.2787
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

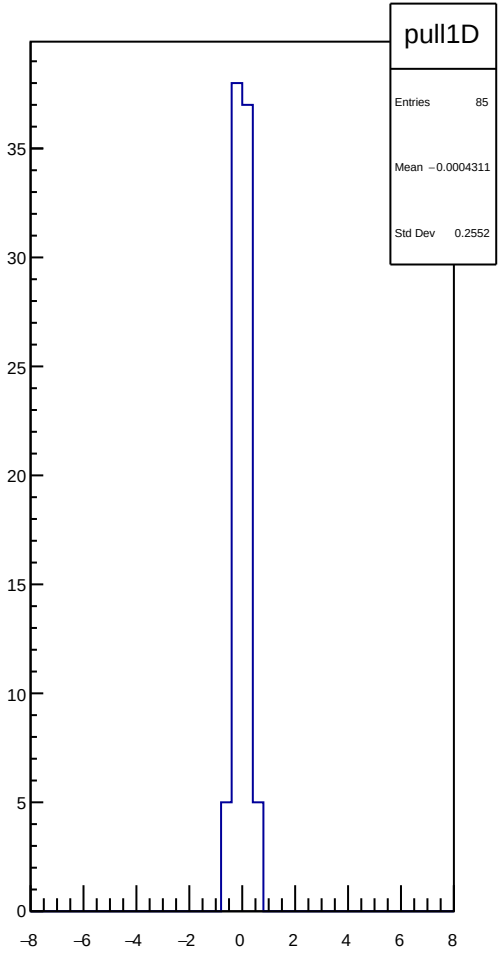

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.673 / 84
p0 −11.62 ± 0.4339
pull
Entries 85
Mean −466.9
Std Dev 0

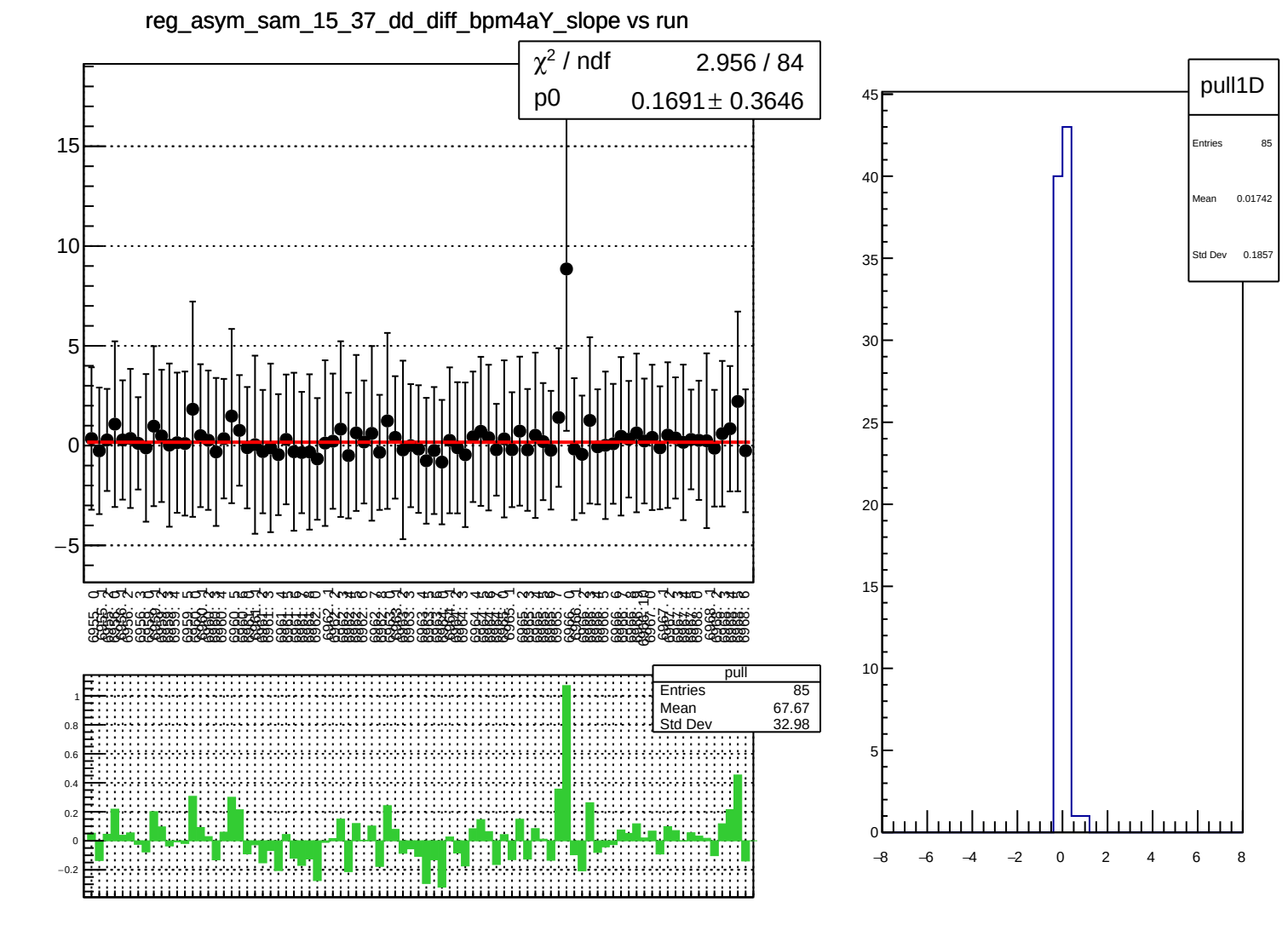

pull1D
Entries 85
Mean 0.002489
Std Dev 0.2345

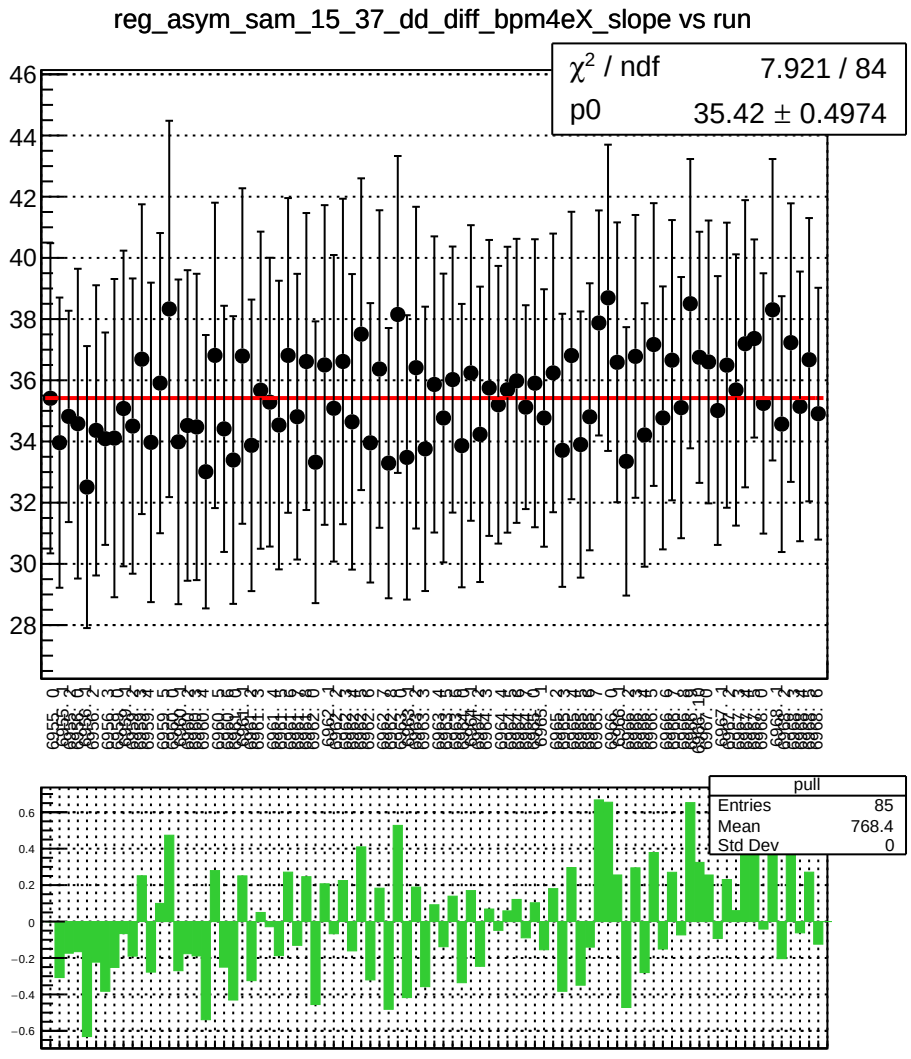

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.415 / 84
p0 −6.35 ± 0.3628
pull
Entries 85
Mean 382.2
Std Dev 0
pull1D
Entries 85
Mean 0.009489
Std Dev 0.2746

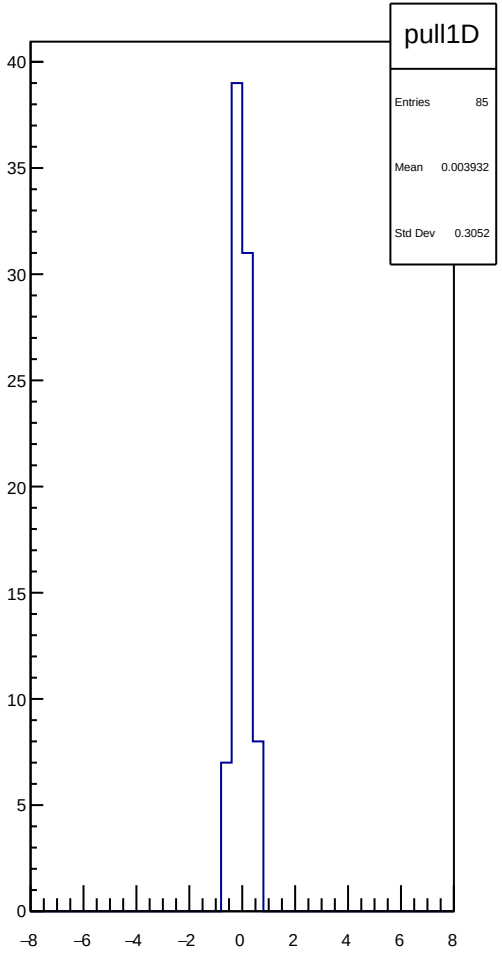

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 16.11 / 84
p0 0.26 ± 0.01385
pull
Entries 85
Mean 1702
Std Dev 0
pull1D
Entries 85
Mean 0.003747
Std Dev 0.4354

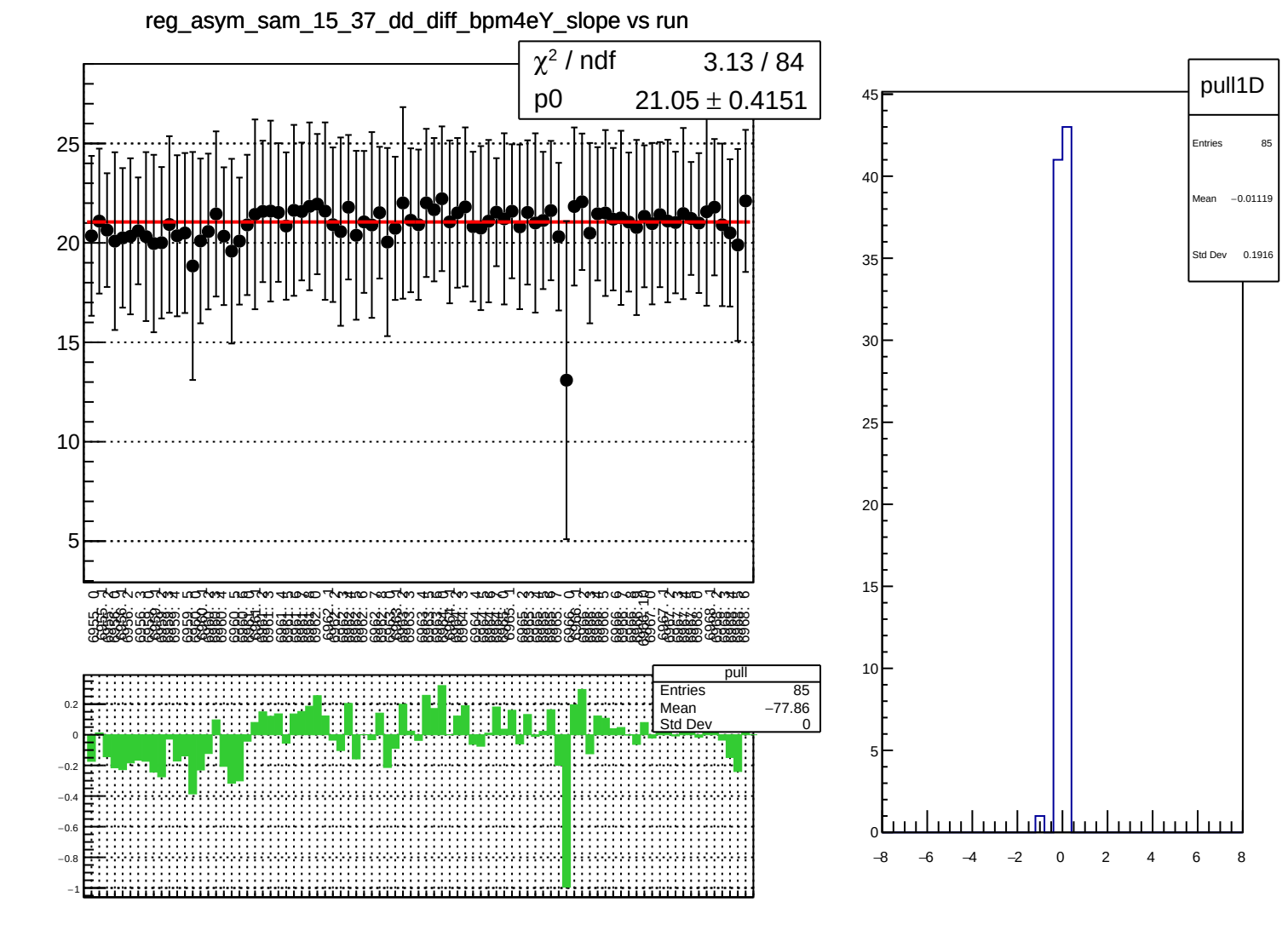

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 5.535 / 84
p0 4.375 ± 0.5388
pull
Entries 85
Mean 8216
Std Dev 0

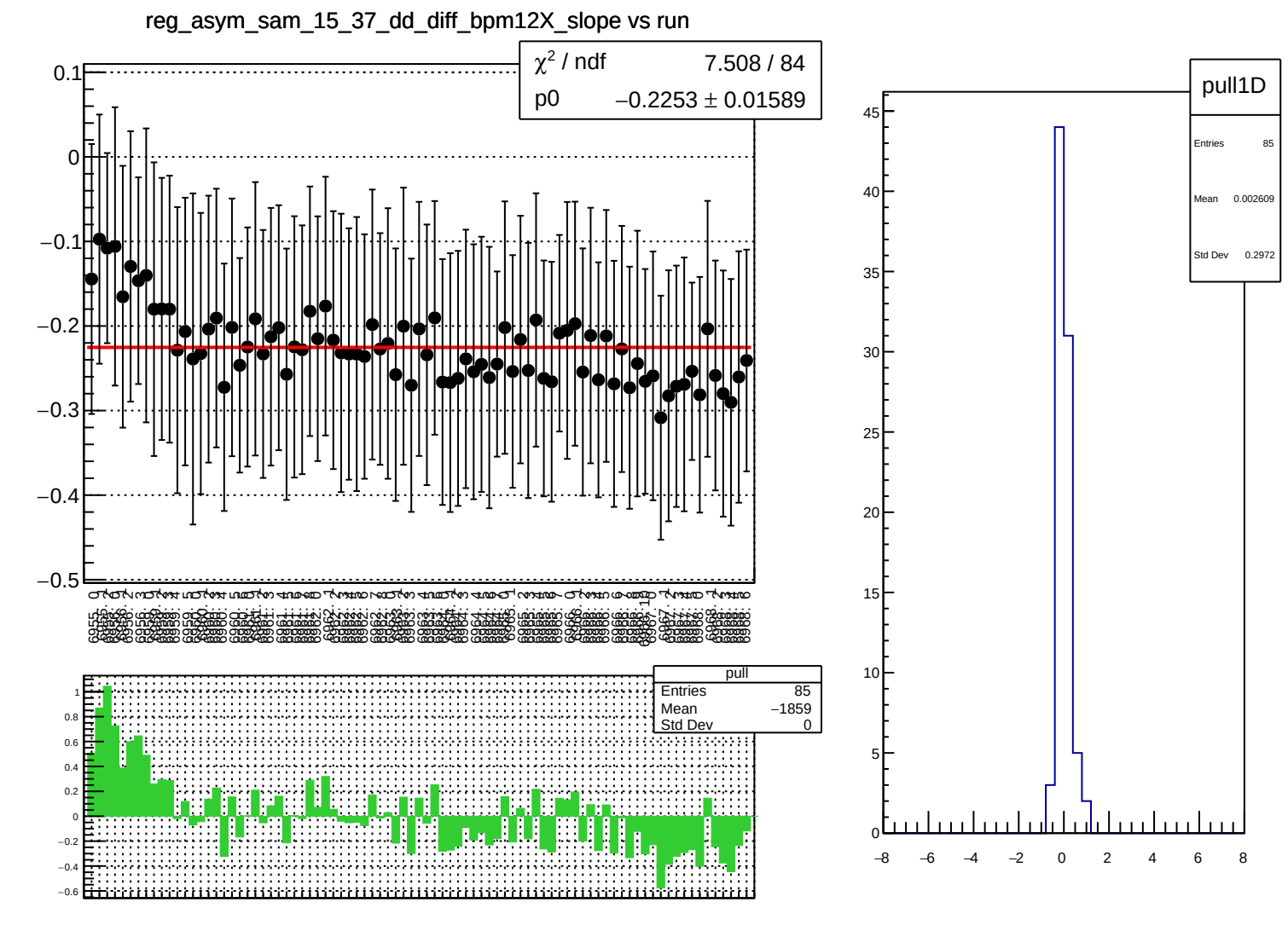

pull1D
Entries 85
Mean −0.0004311
Std Dev 0.2552

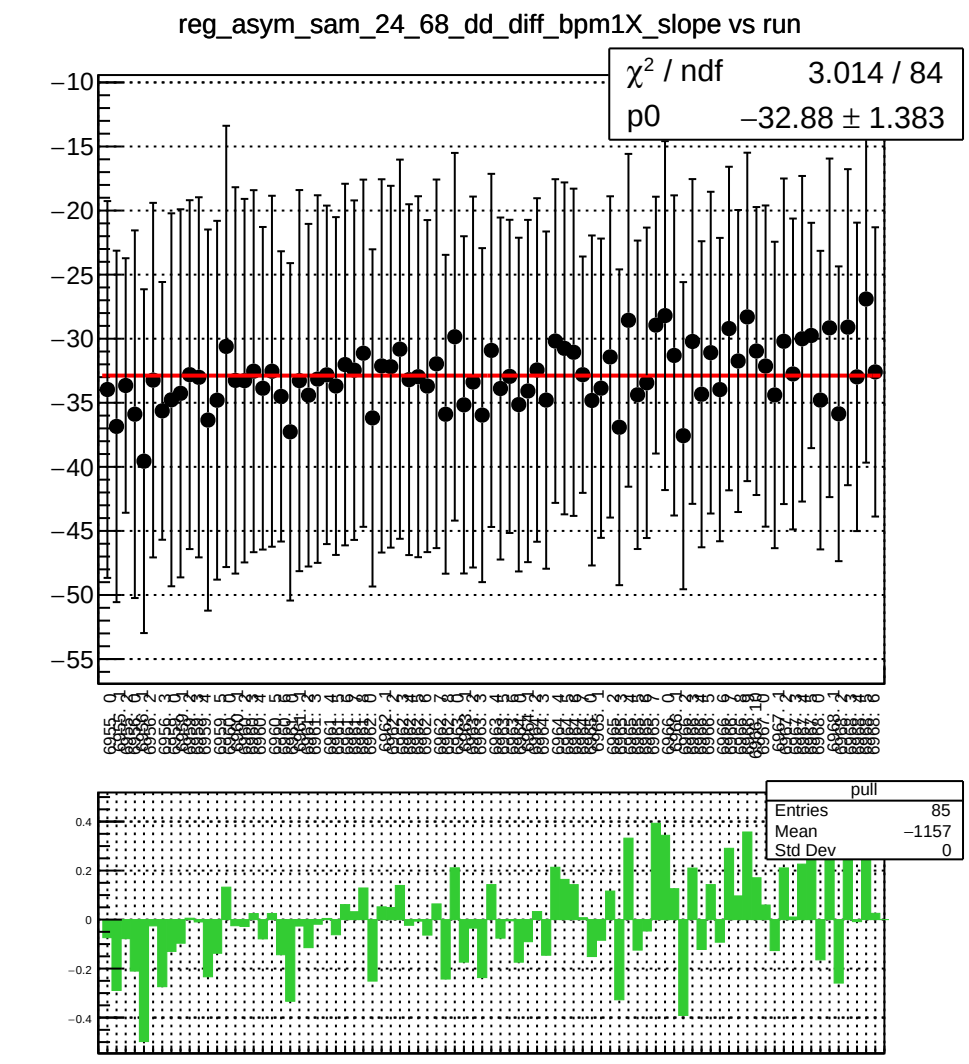

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.956 / 84
p0 0.1691 ± 0.3646
pull
Entries 85
Mean 67.67
Std Dev 32.98
pull1D
Entries 85
Mean 0.01742
Std Dev 0.1857

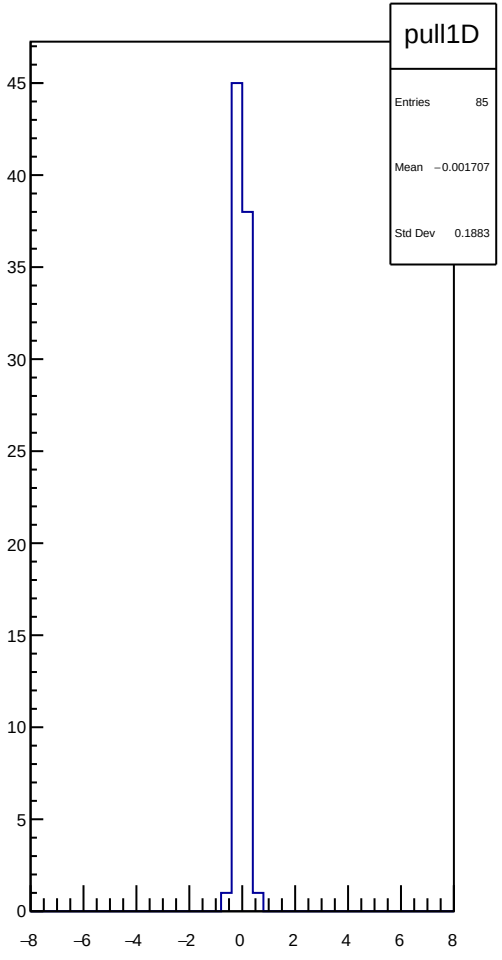

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.921 / 84
p0 35.42 ± 0.4974
pull
Entries 85
Mean 768.4
Std Dev 0

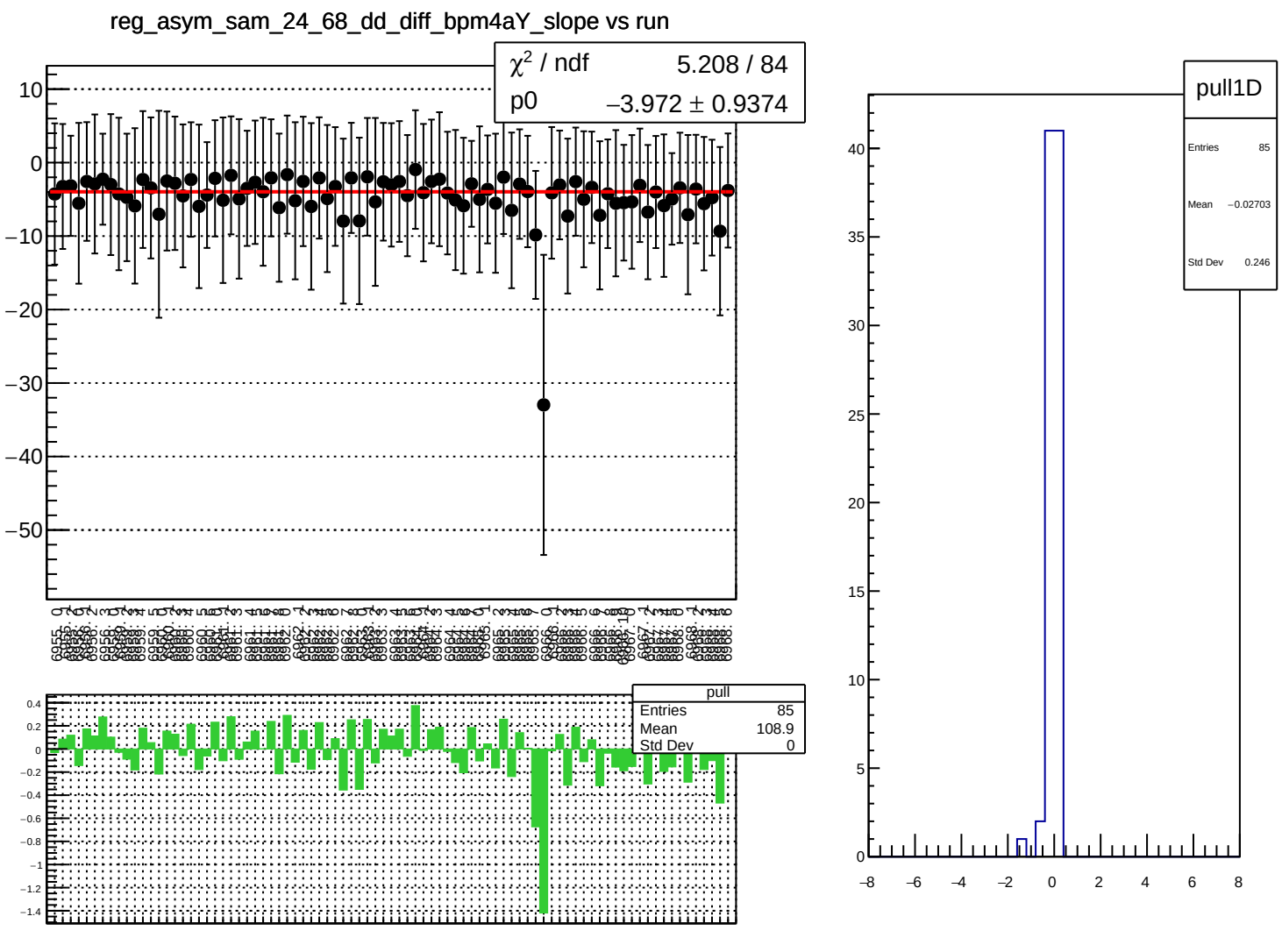

pull1D
Entries 85
Mean 0.003932
Std Dev 0.3052

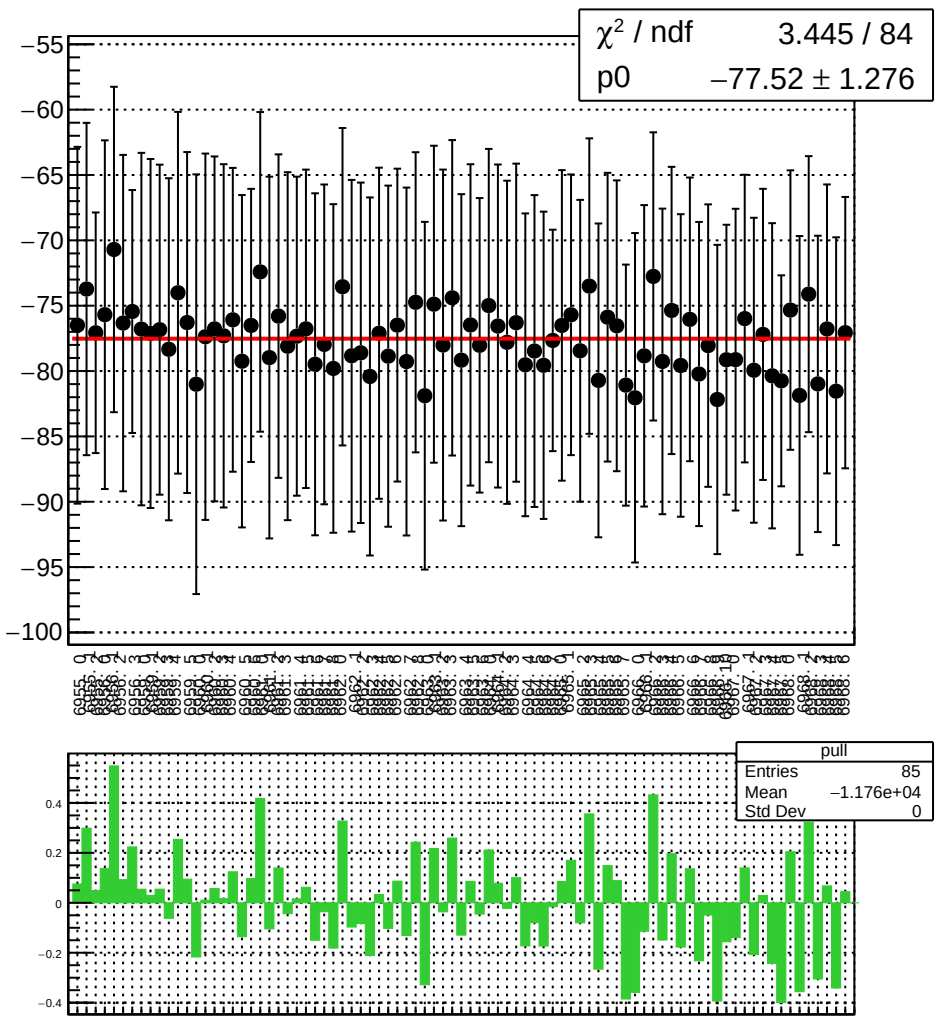

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.13 / 84
p0 21.05 ± 0.4151
pull
Entries 85
Mean −77.86
Std Dev 0
pull1D
Entries 85
Mean −0.01119
Std Dev 0.1916

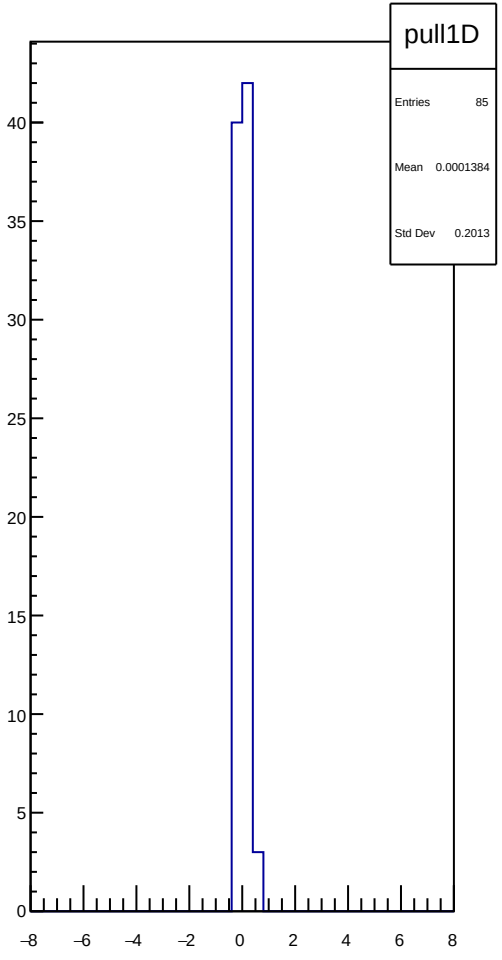

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 7.508 / 84
p0 −0.2253 ± 0.01589
pull
Entries 85
Mean −1859
Std Dev 0
pull1D
Entries 85
Mean 0.002609
Std Dev 0.2972

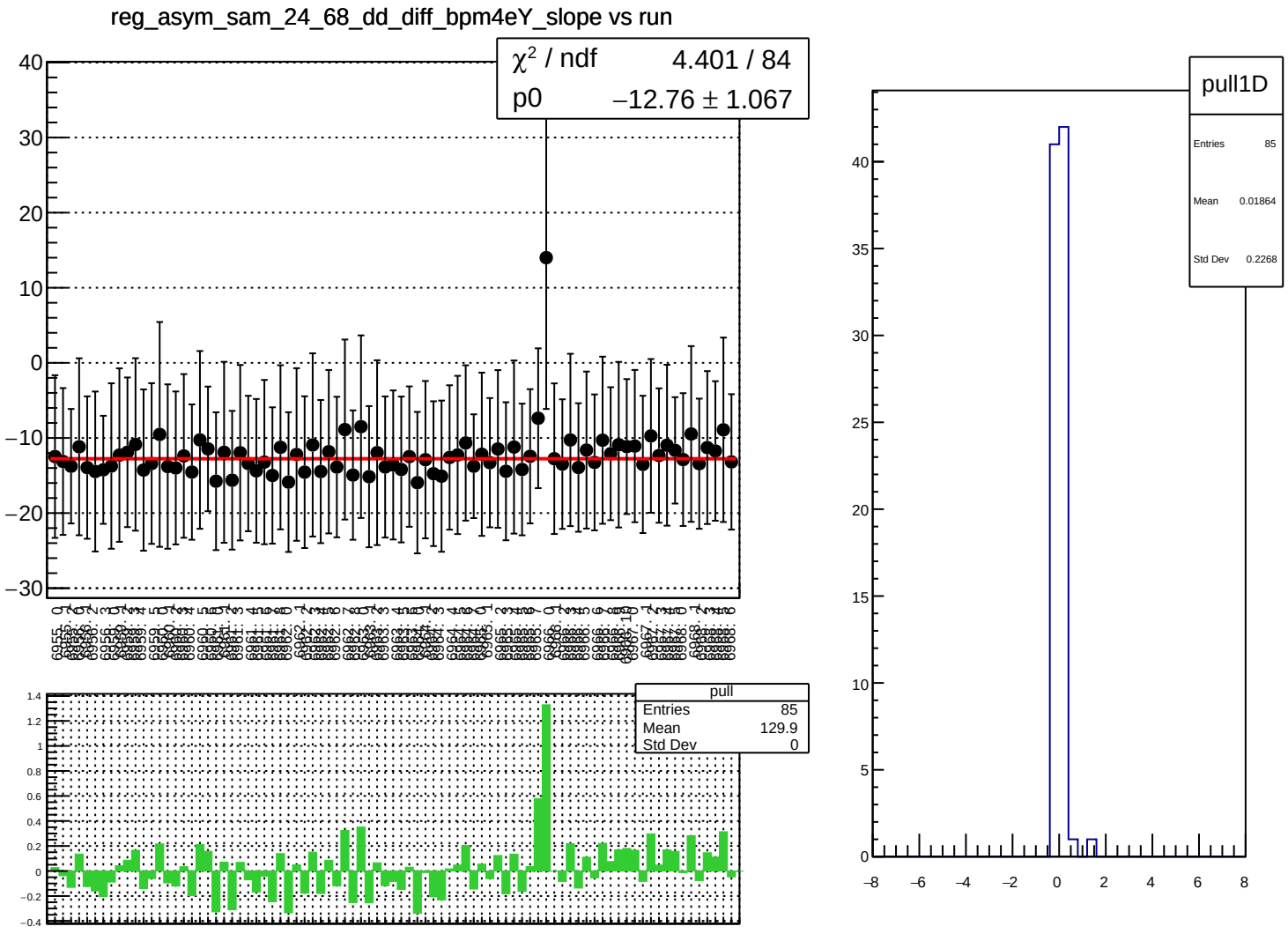

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 3.014 / 84
p0 −32.88 ± 1.383
pull
Entries 85
Mean −1157
Std Dev 0

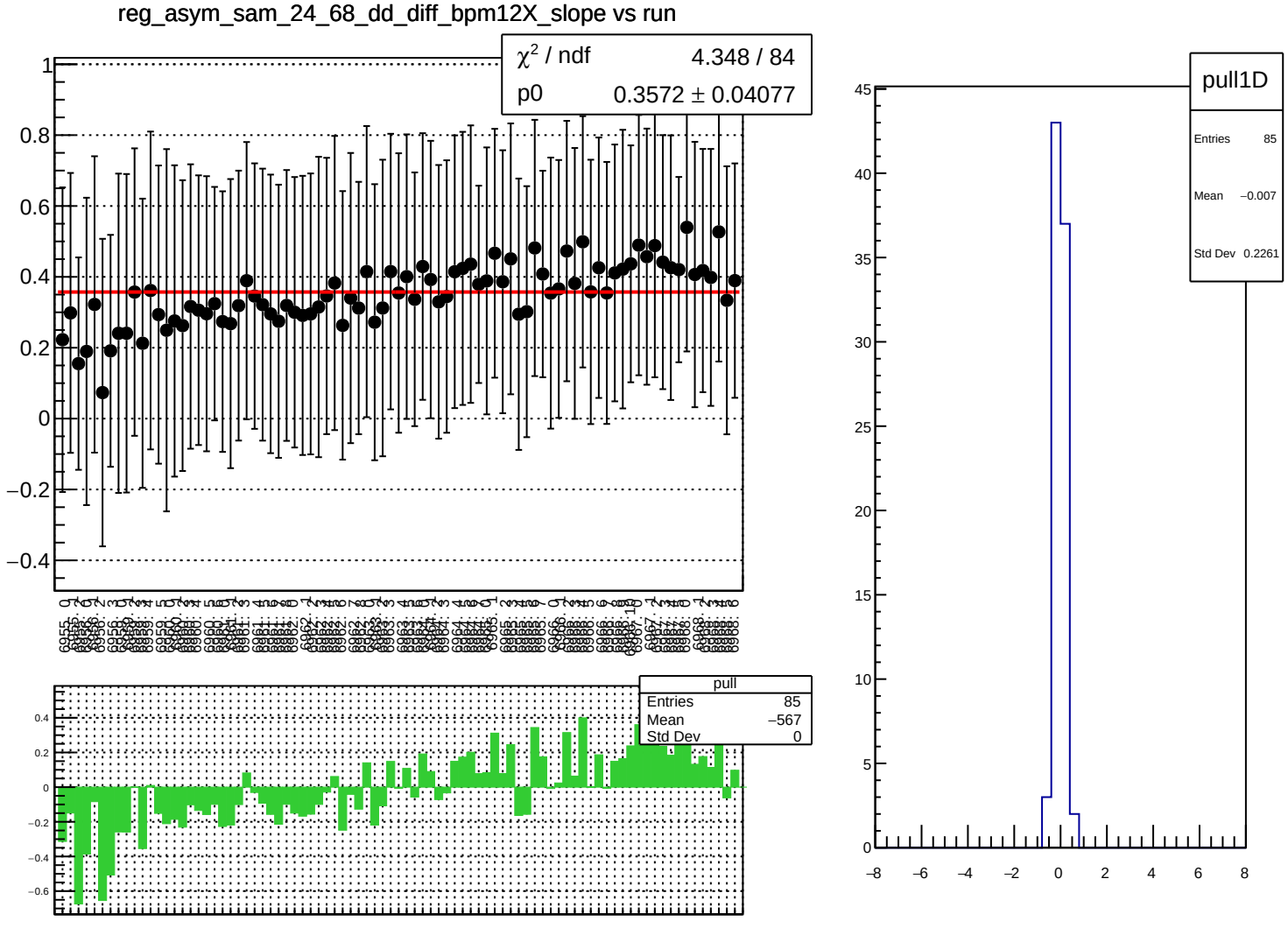

pull1D
Entries 85
Mean −0.001707
Std Dev 0.1883

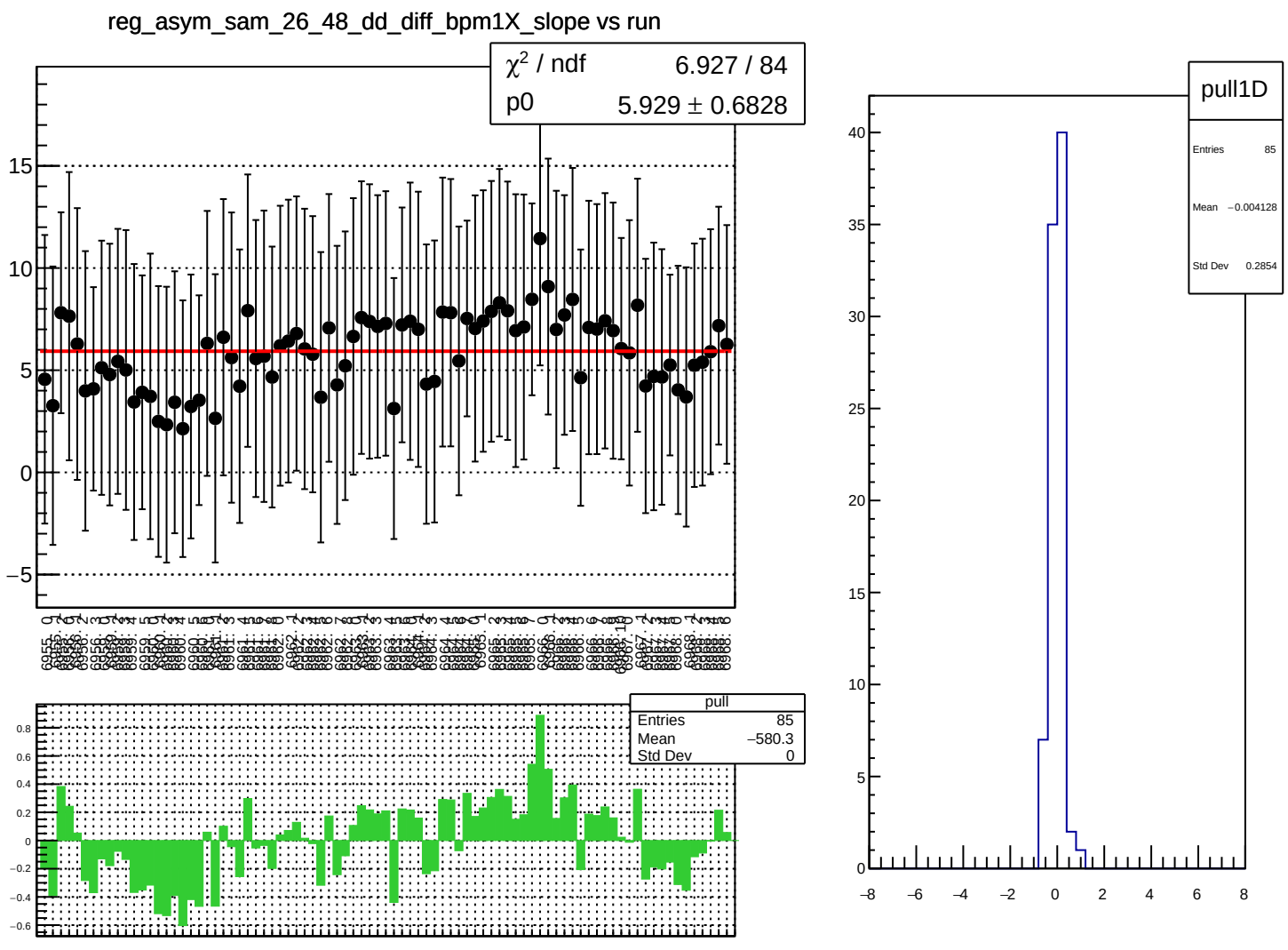

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.208 / 84
p0 −3.972 ± 0.9374
pull
Entries 85
Mean 108.9
Std Dev 0
pull1D
Entries 85
Mean −0.02703
Std Dev 0.246

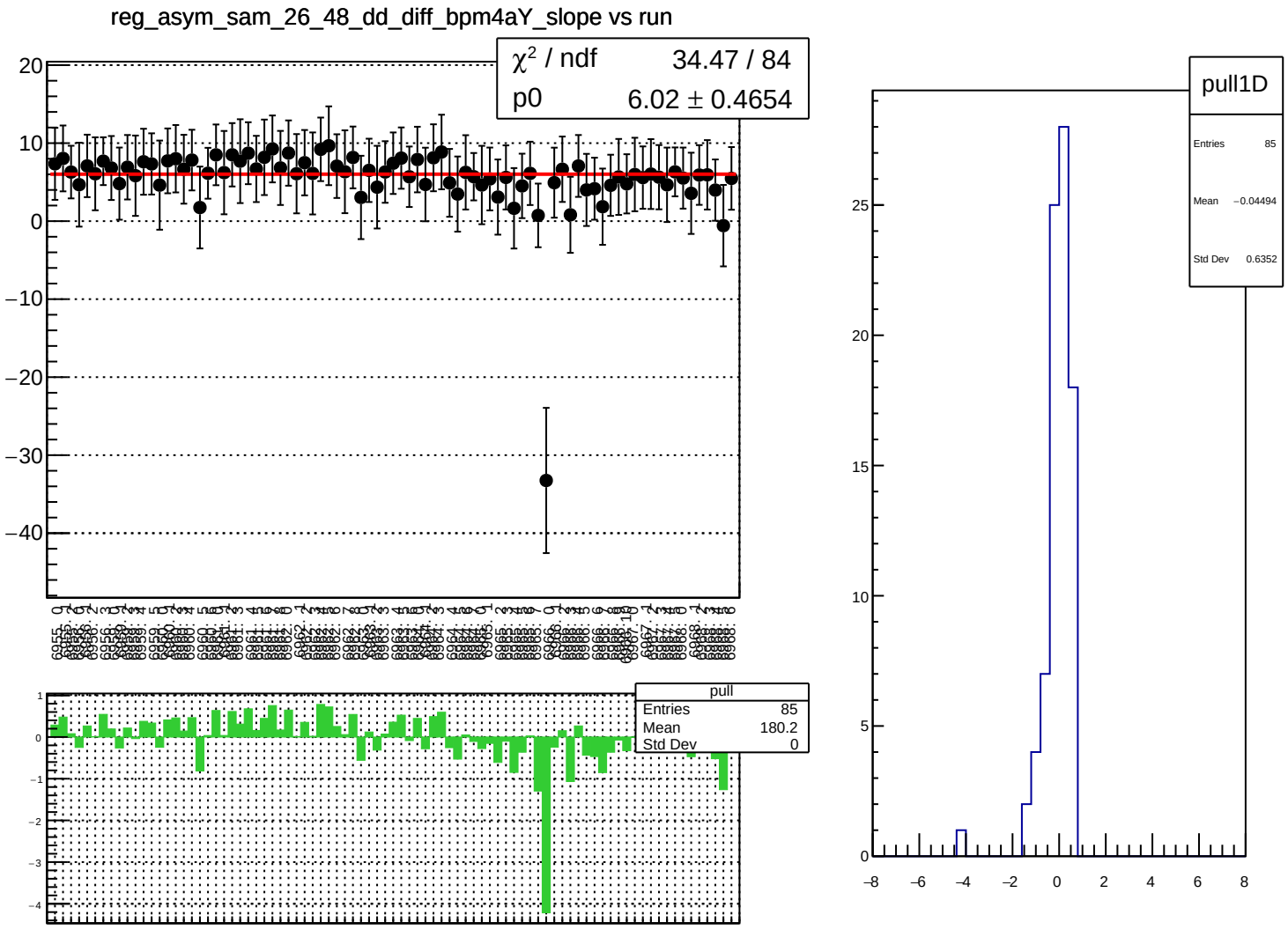

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.445 / 84
p0 −77.52 ± 1.276
pull
Entries 85
Mean −1.176e+04
Std Dev 0

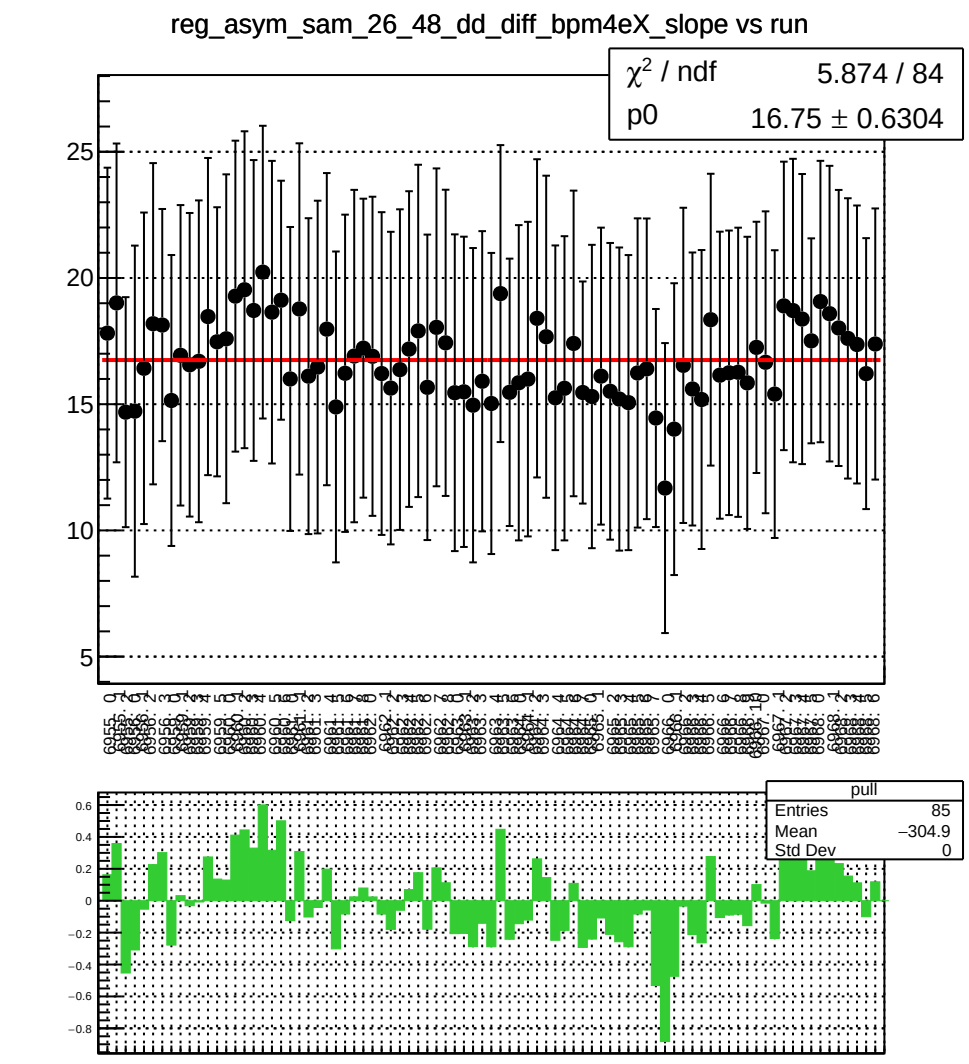

pull1D
Entries 85
Mean 0.0001384
Std Dev 0.2013

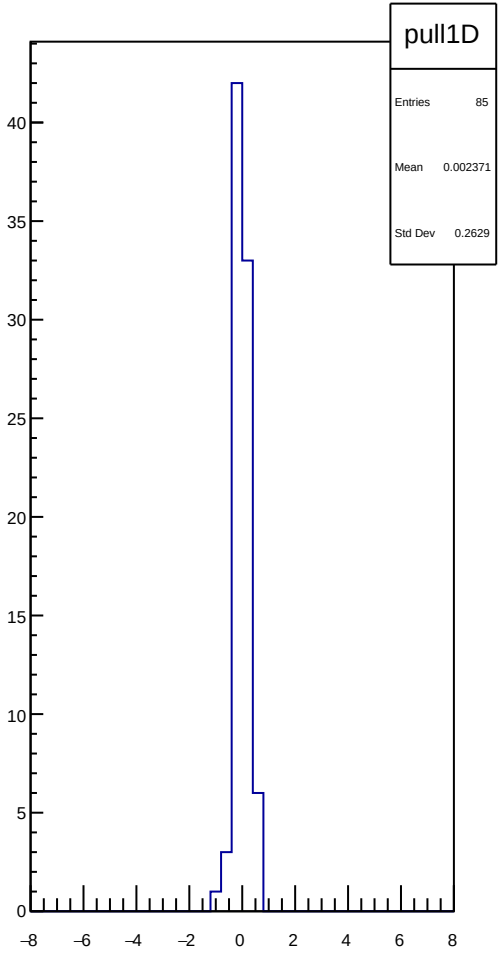

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.401 / 84
p0 −12.76 ± 1.067
pull
Entries 85
Mean 129.9
Std Dev 0
pull1D
Entries 85
Mean 0.01864
Std Dev 0.2268

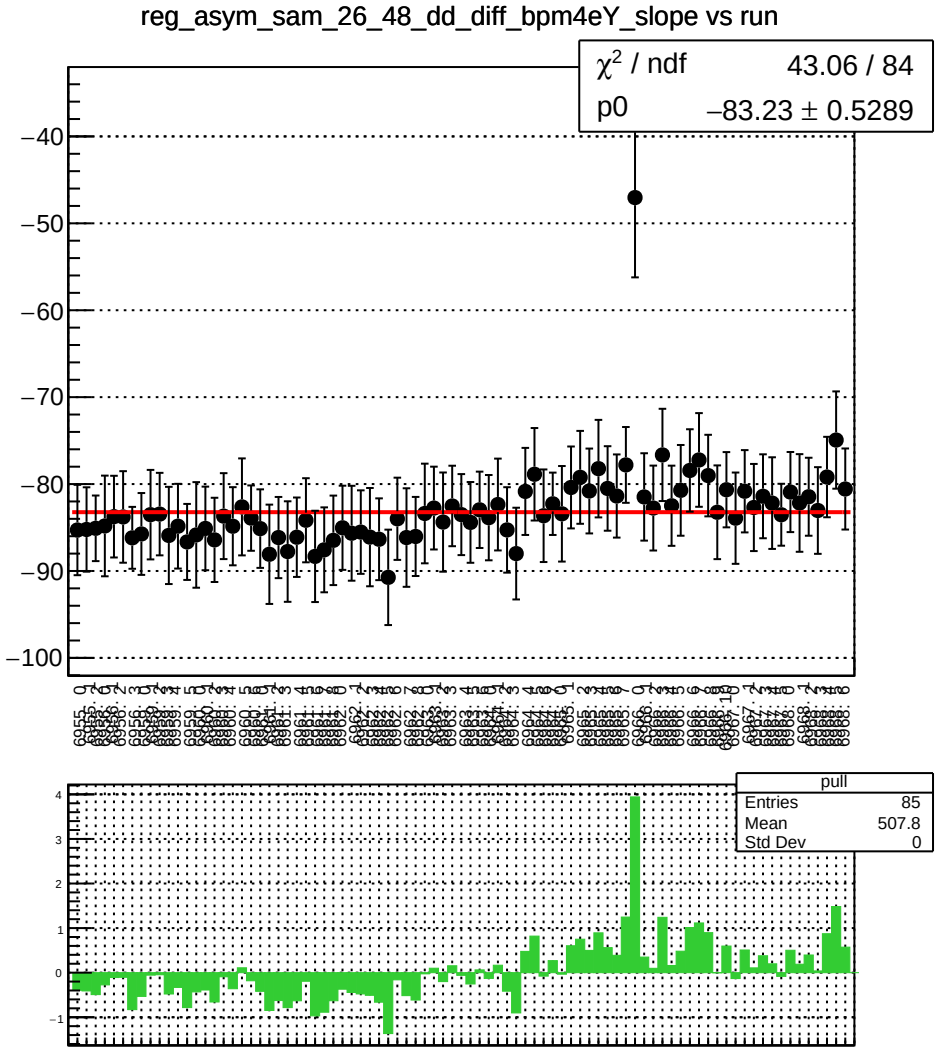

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 4.348 / 84
p0 0.3572 ± 0.04077
pull
Entries 85
Mean −567
Std Dev 0
pull1D
Entries 85
Mean −0.007
Std Dev 0.2261

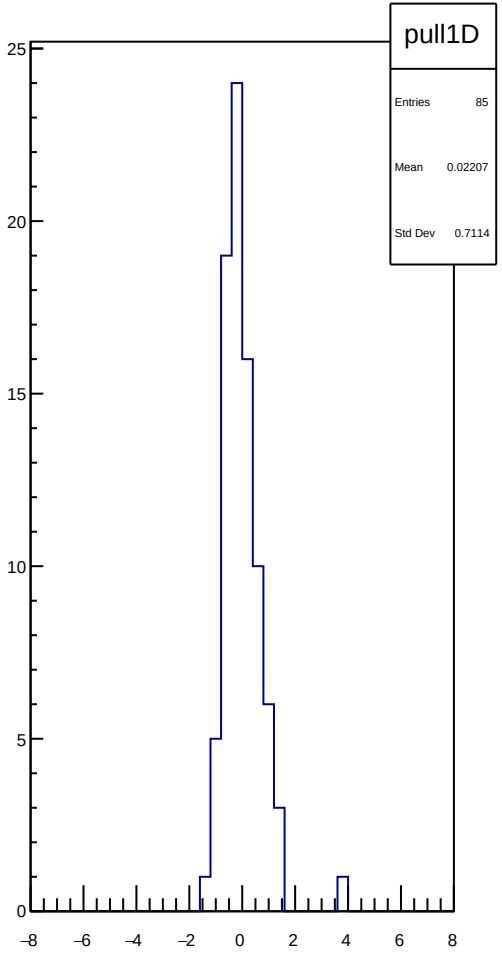

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.927 / 84
p0 5.929 ± 0.6828
pull
Entries 85
Mean −580.3
Std Dev 0
pull1D
Entries 85
Mean −0.004128
Std Dev 0.2854

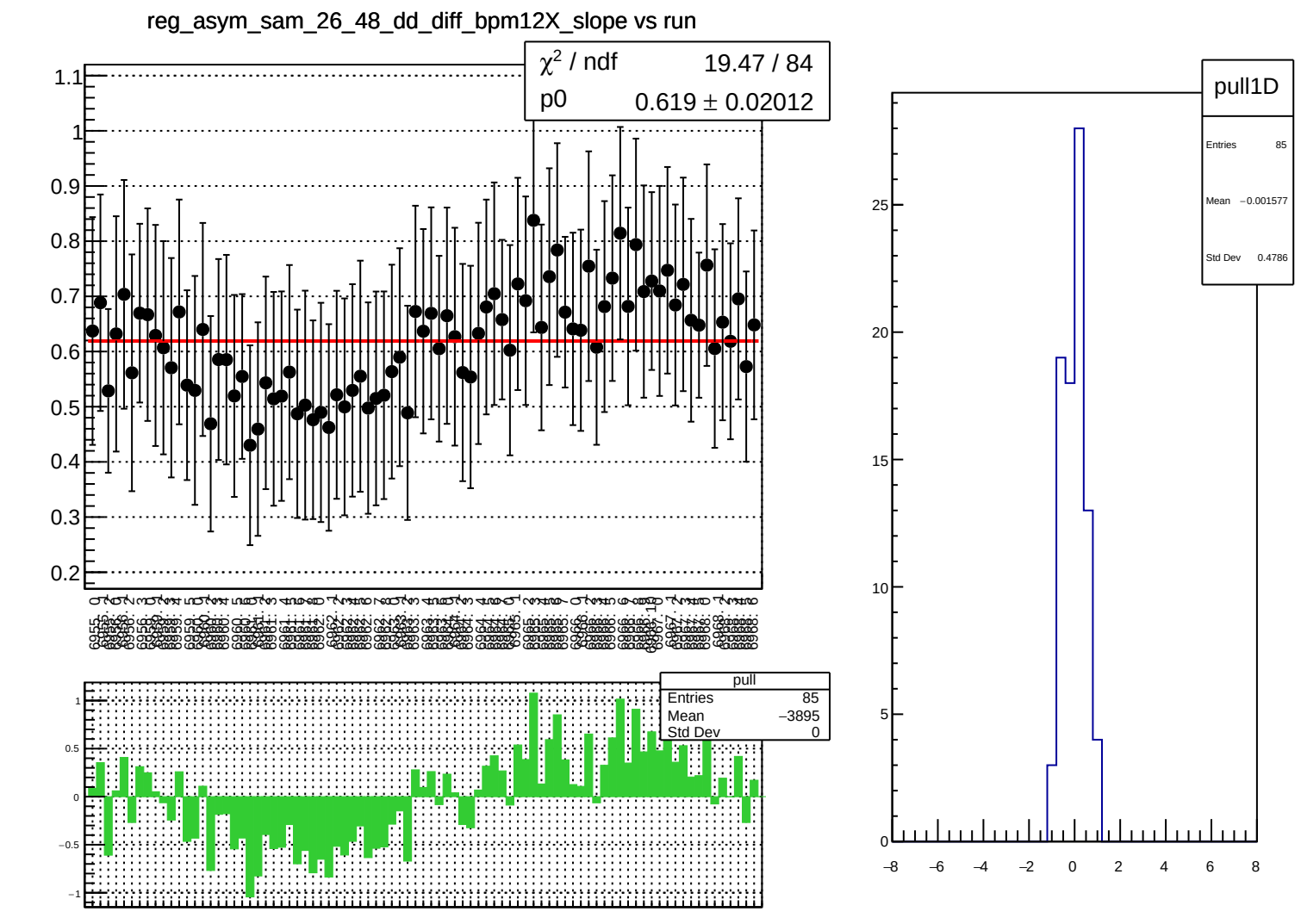

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.47 / 84
p0 6.02 ± 0.4654
pull
Entries 85
Mean 180.2
Std Dev 0
pull1D
Entries 85
Mean −0.04494
Std Dev 0.6352

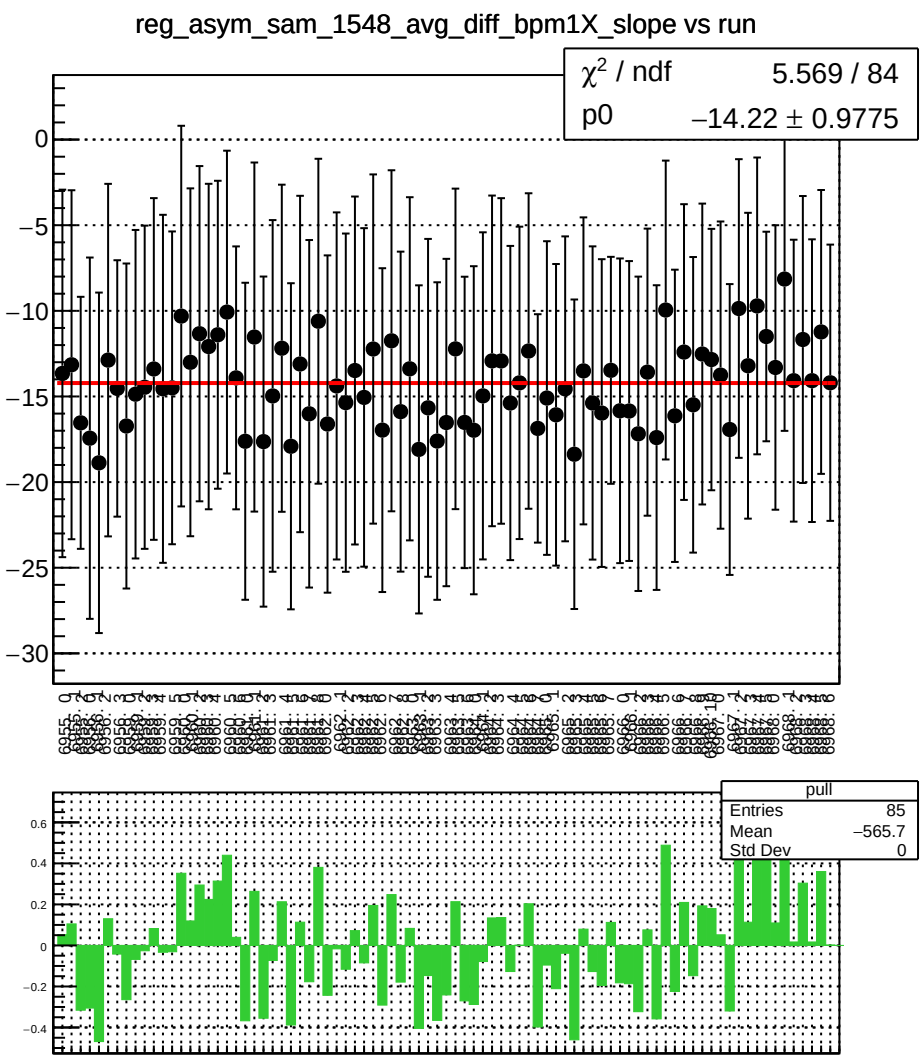

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.874 / 84
p0 16.75 ± 0.6304
pull
Entries 85
Mean −304.9
Std Dev 0

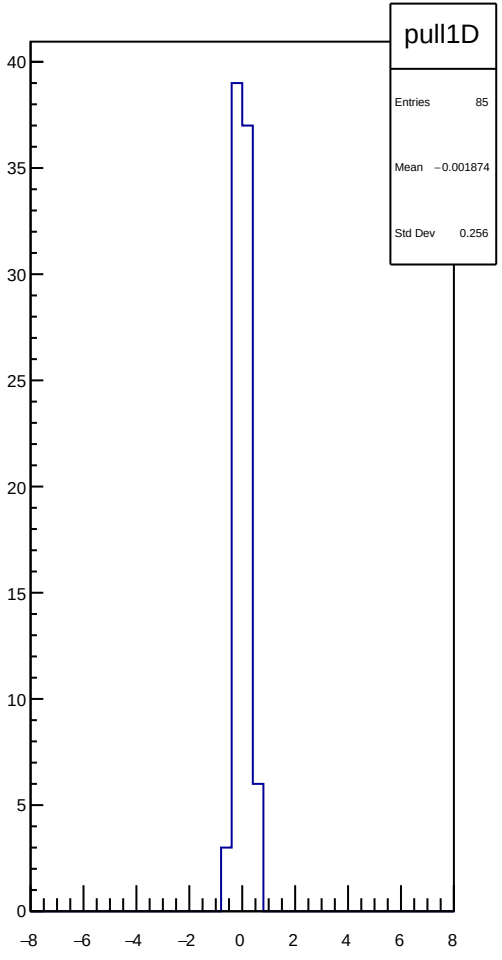

pull1D
Entries 85
Mean 0.002371
Std Dev 0.2629

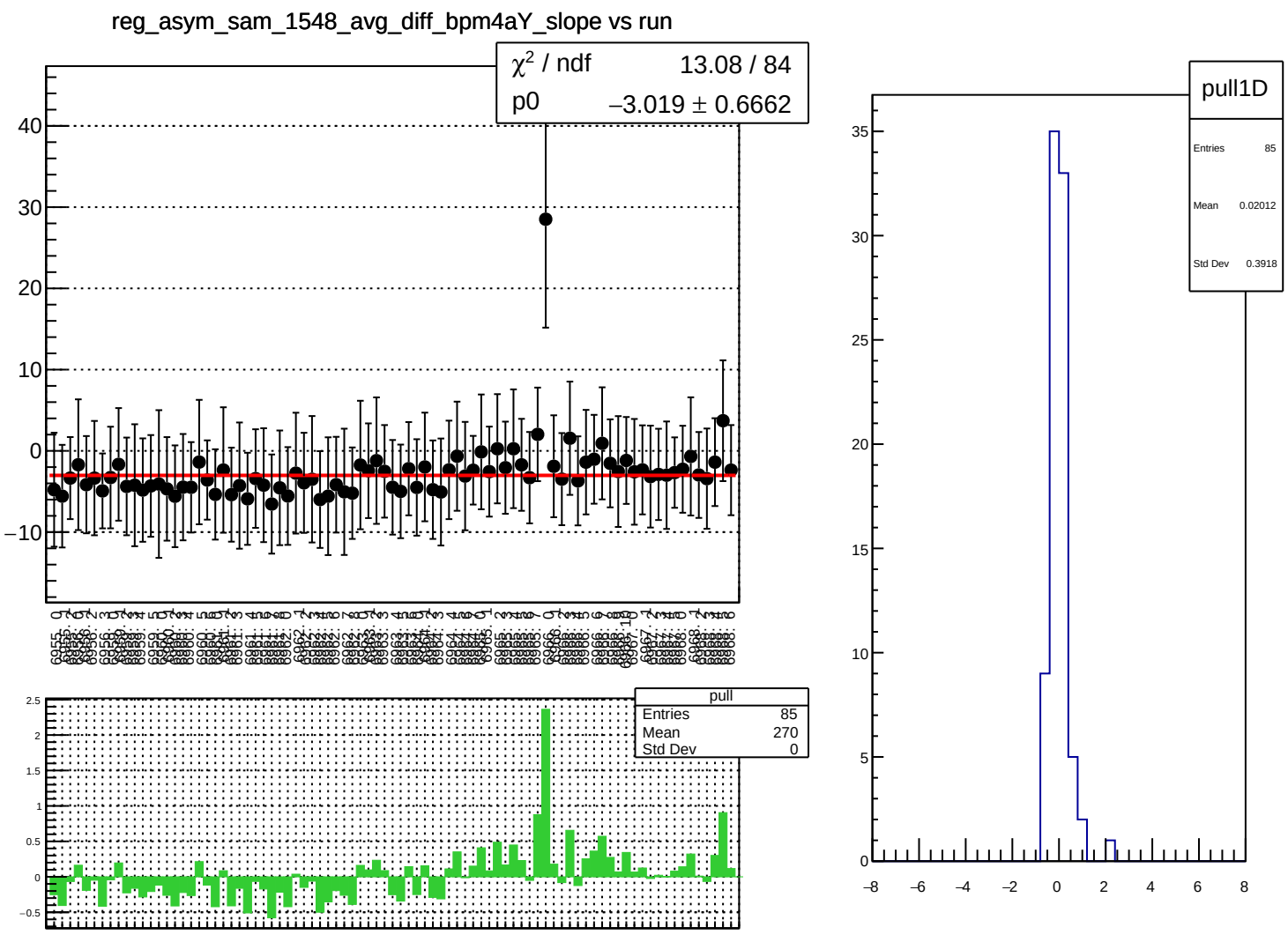

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.06 / 84
p0 −83.23 ± 0.5289
pull
Entries 85
Mean 507.8
Std Dev 0

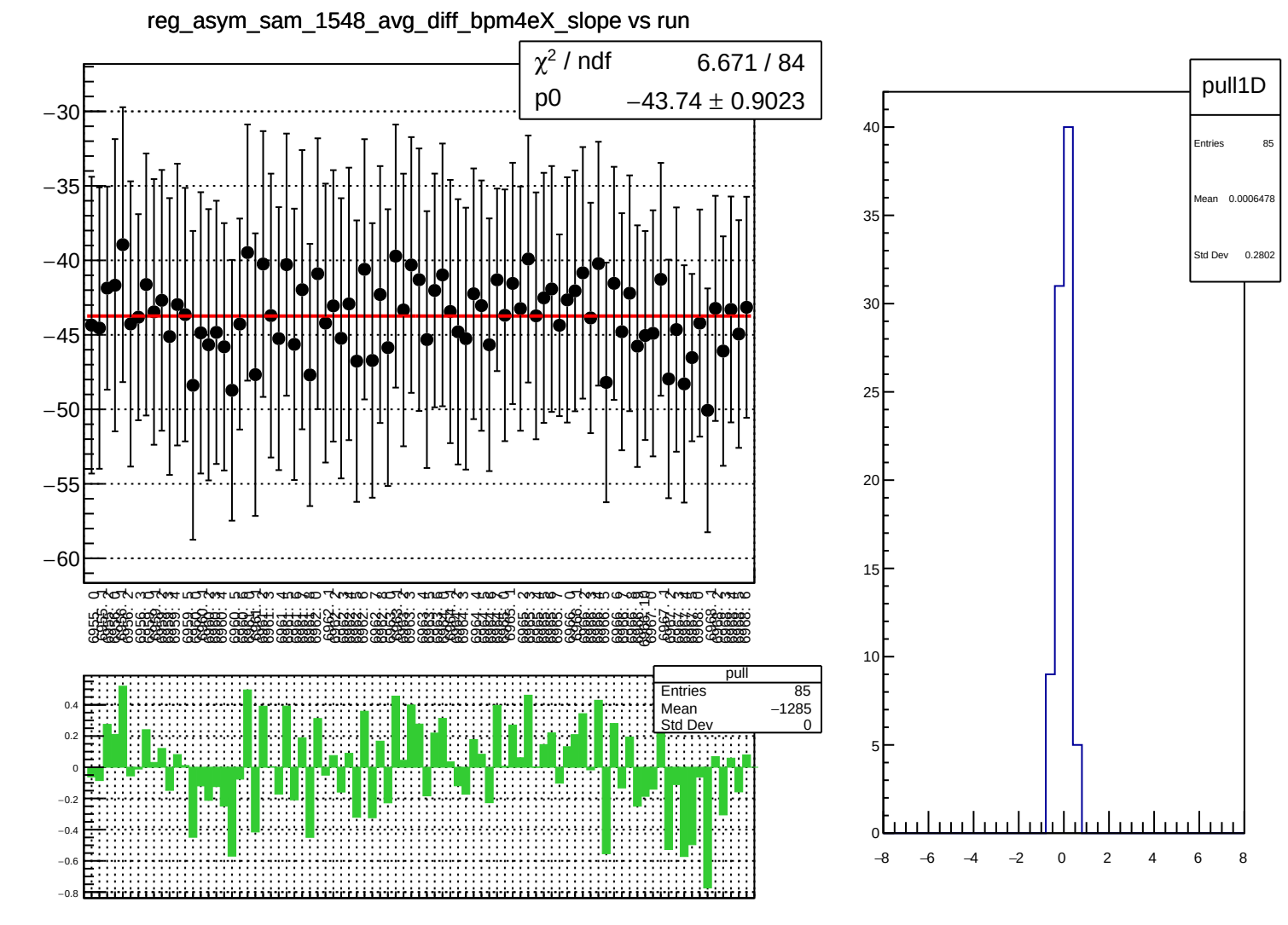

pull1D
Entries 85
Mean 0.02207
Std Dev 0.7114

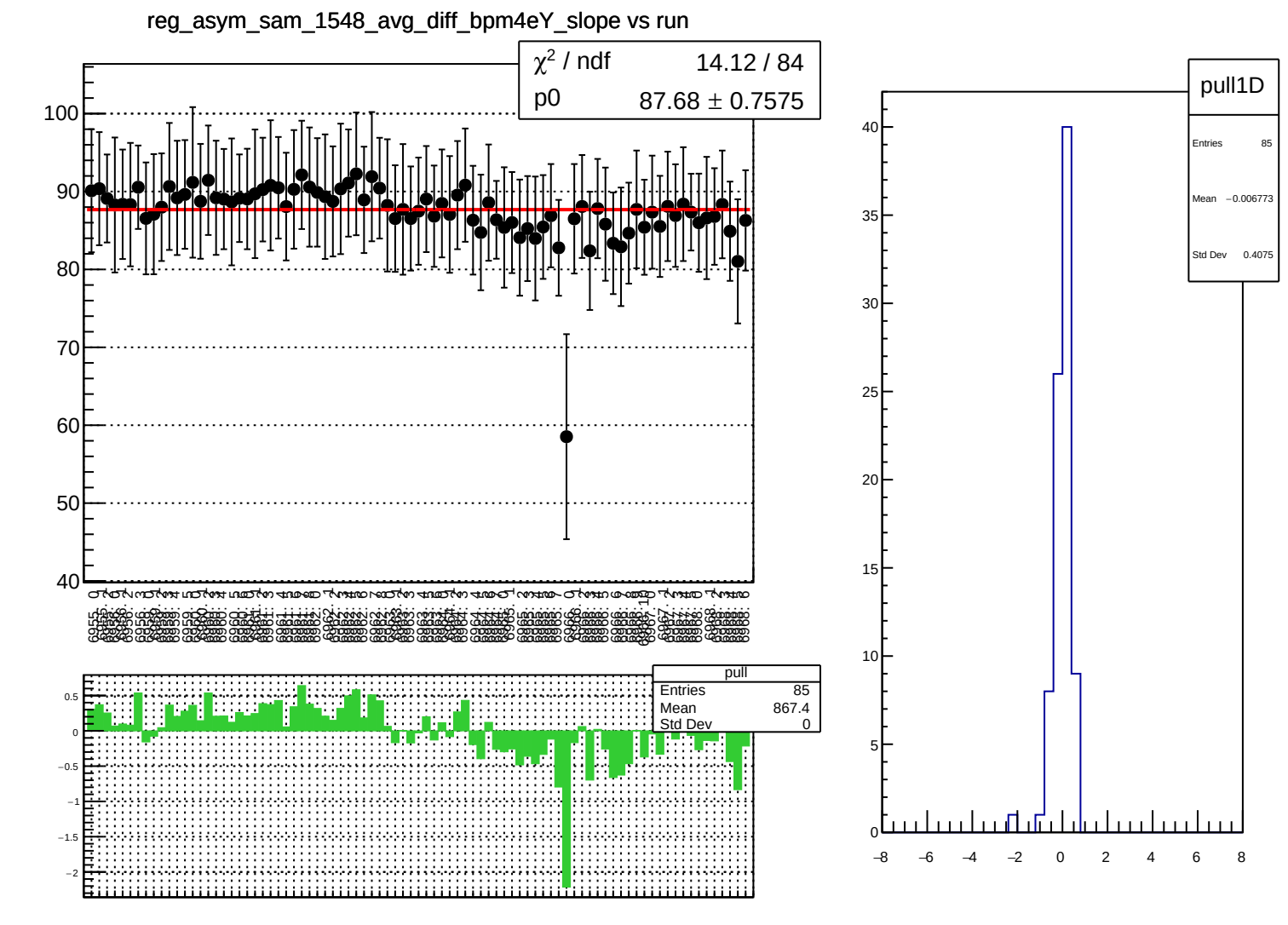

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 19.47 / 84
p0 0.619 ± 0.02012
pull
Entries 85
Mean −3895
Std Dev 0
pull1D
Entries 85
Mean −0.001577
Std Dev 0.4786

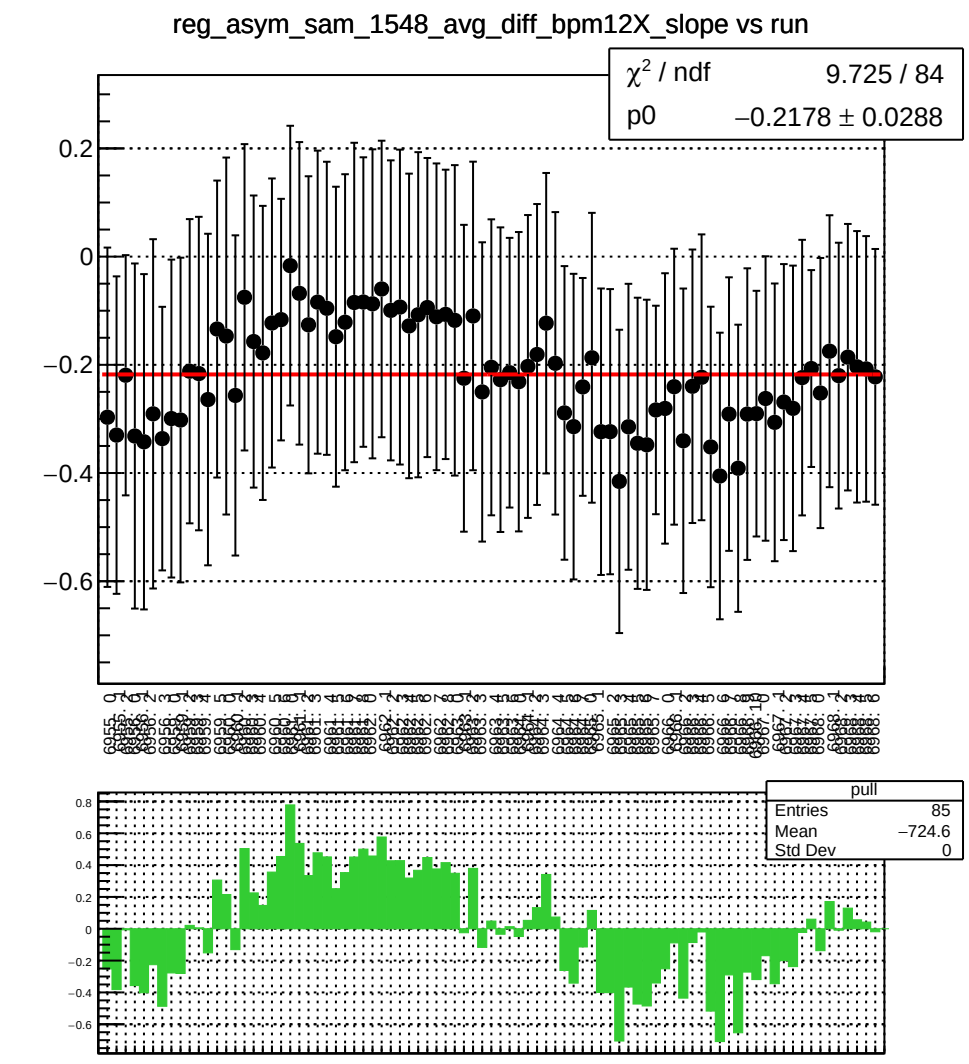

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 5.569 / 84
p0 −14.22 ± 0.9775
pull
Entries 85
Mean −565.7
Std Dev 0

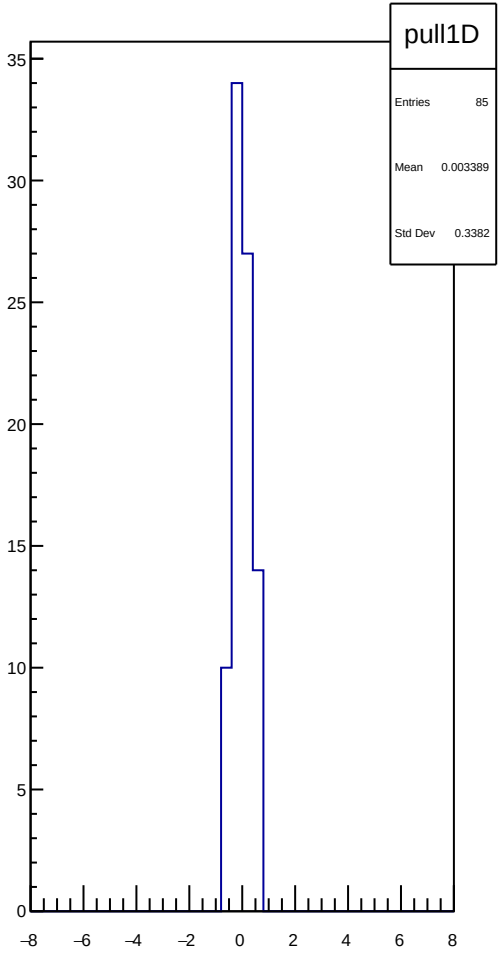

pull1D
Entries 85
Mean −0.001874
Std Dev 0.256

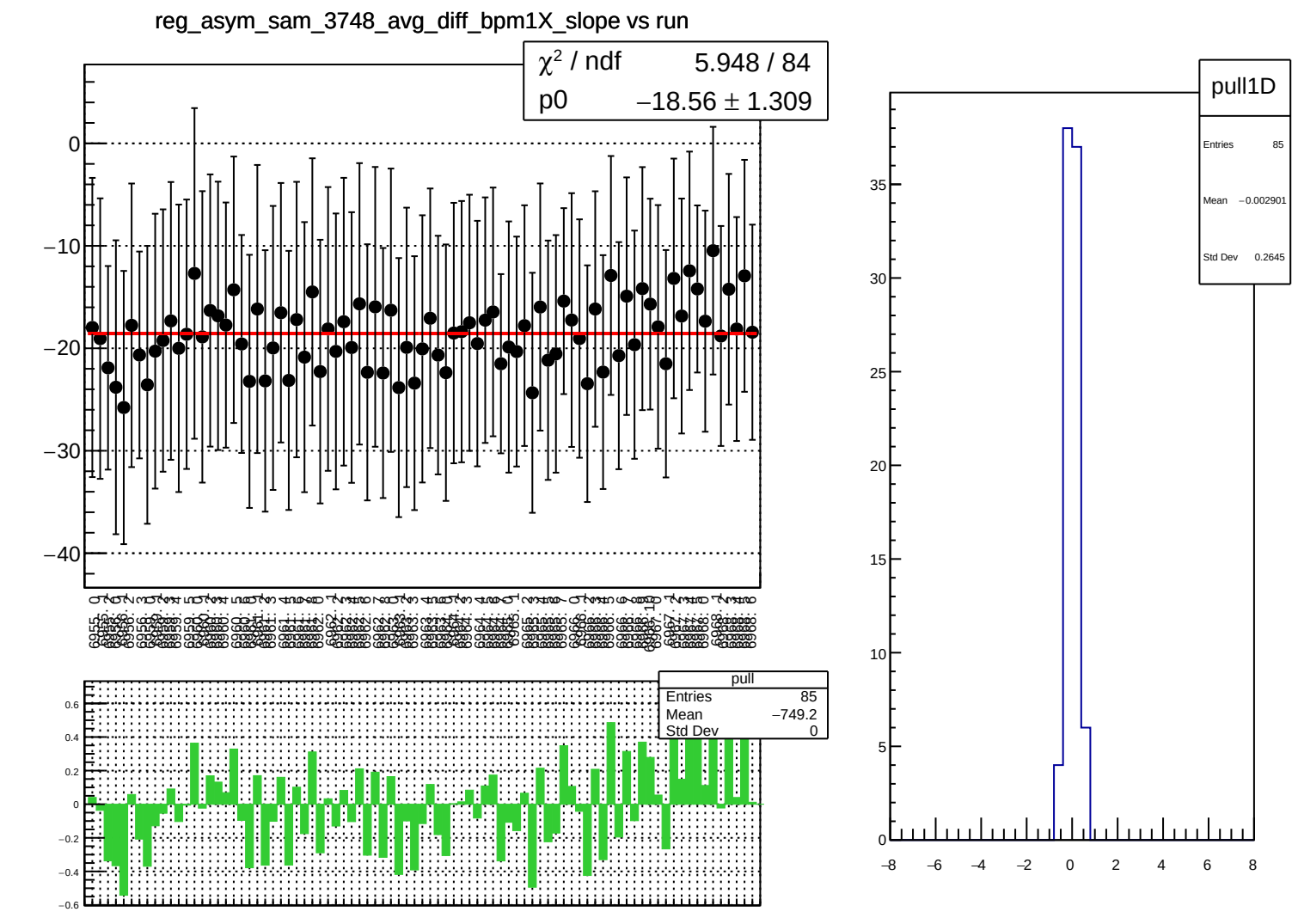

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.08 / 84
p0 −3.019 ± 0.6662
pull
Entries 85
Mean 270
Std Dev 0
pull1D
Entries 85
Mean 0.02012
Std Dev 0.3918

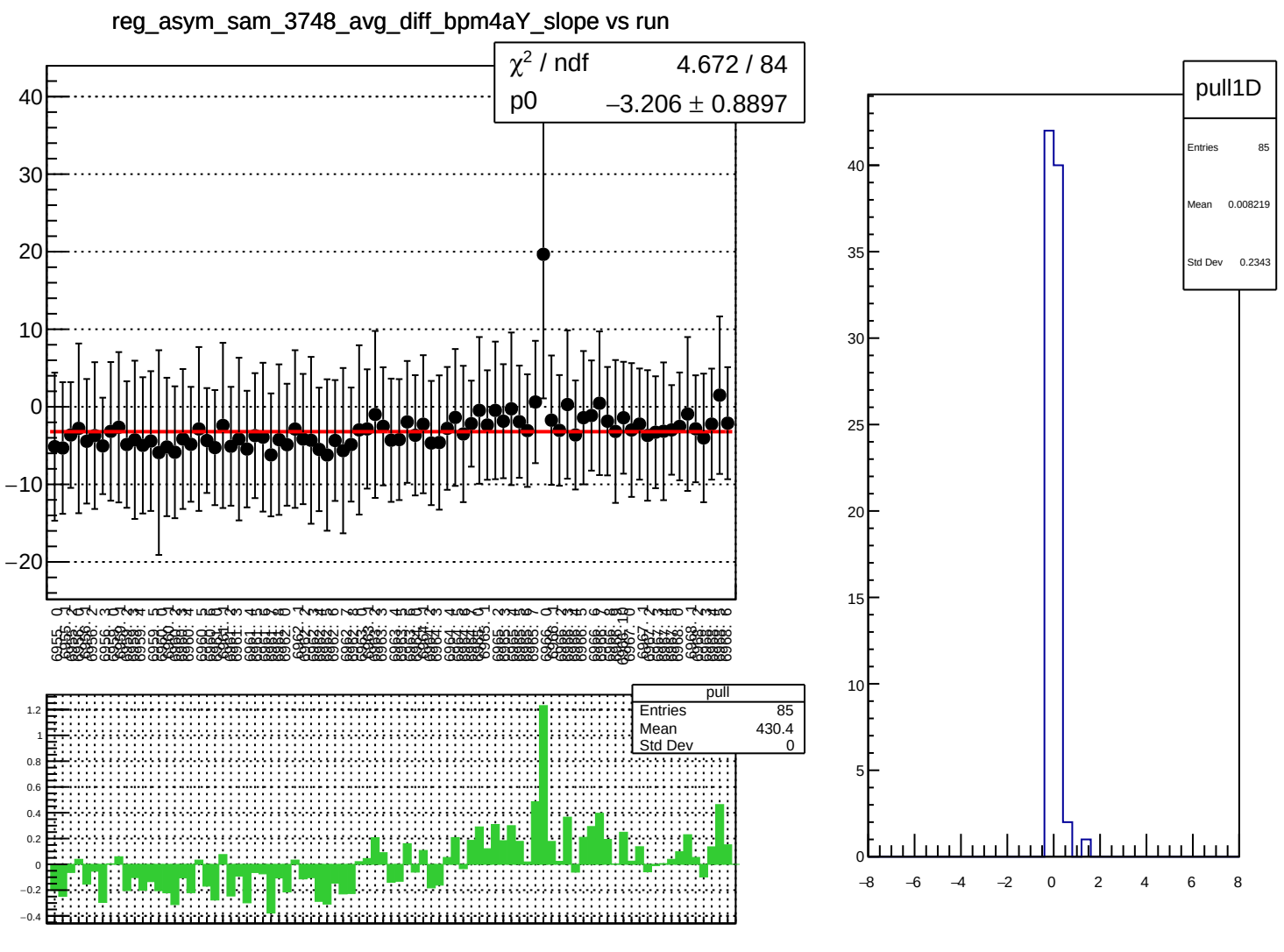

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.671 / 84
p0 −43.74 ± 0.9023
pull
Entries 85
Mean −1285
Std Dev 0
pull1D
Entries 85
Mean 0.0006478
Std Dev 0.2802

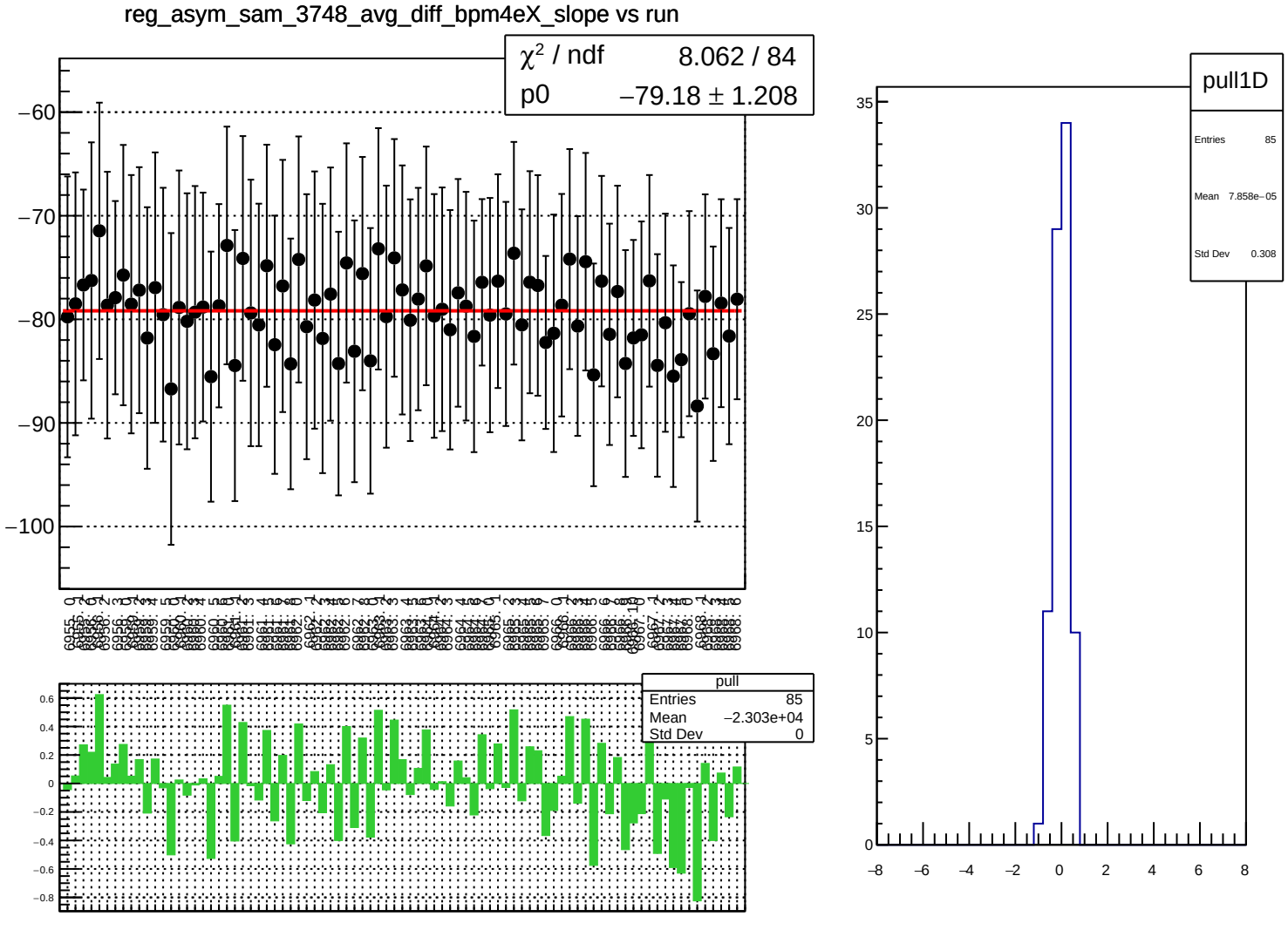

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.12 / 84
p0 87.68 ± 0.7575
pull
Entries 85
Mean 867.4
Std Dev 0
pull1D
Entries 85
Mean −0.006773
Std Dev 0.4075

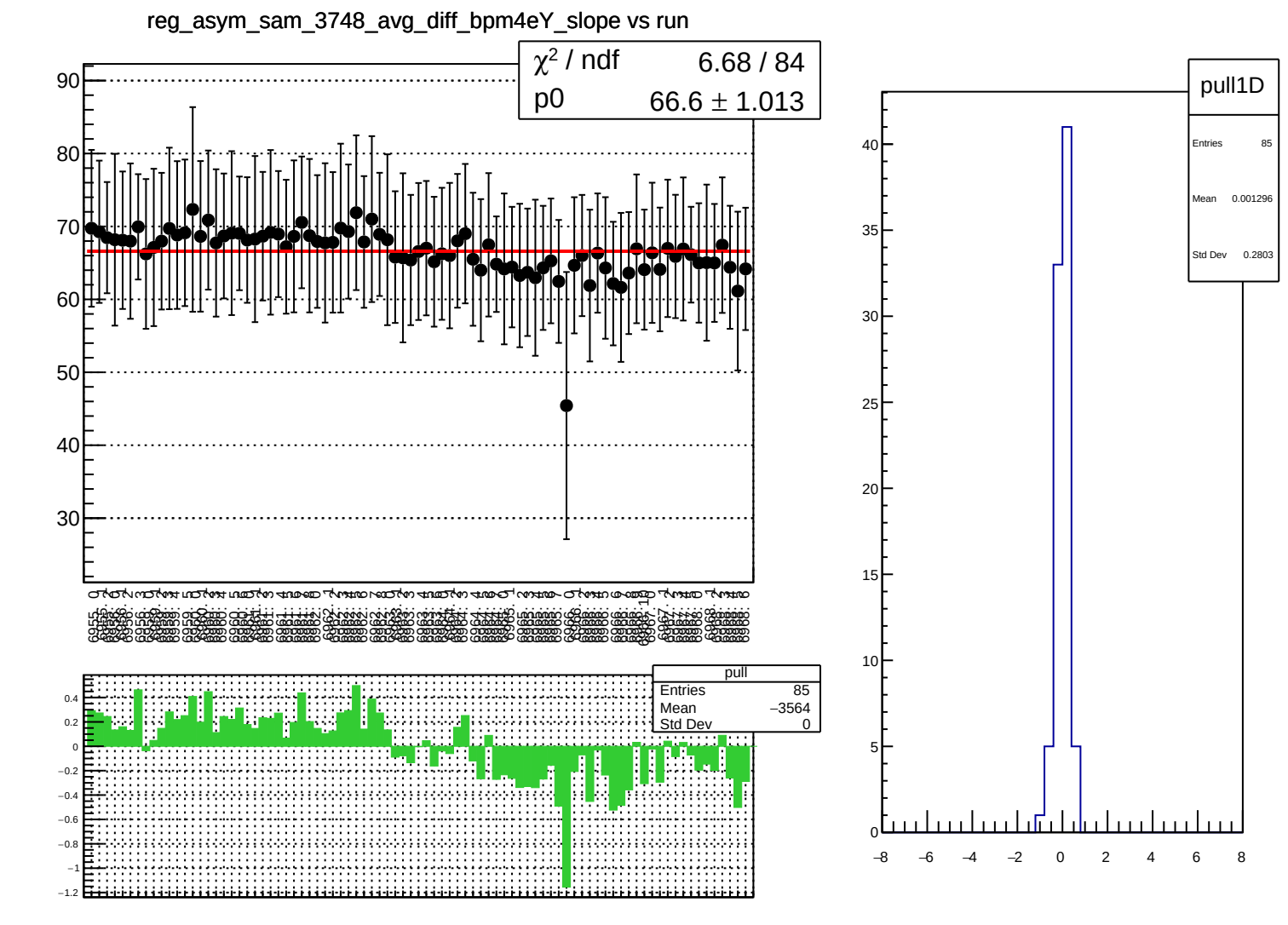

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 9.725 / 84
p0 −0.2178 ± 0.0288
pull
Entries 85
Mean −724.6
Std Dev 0

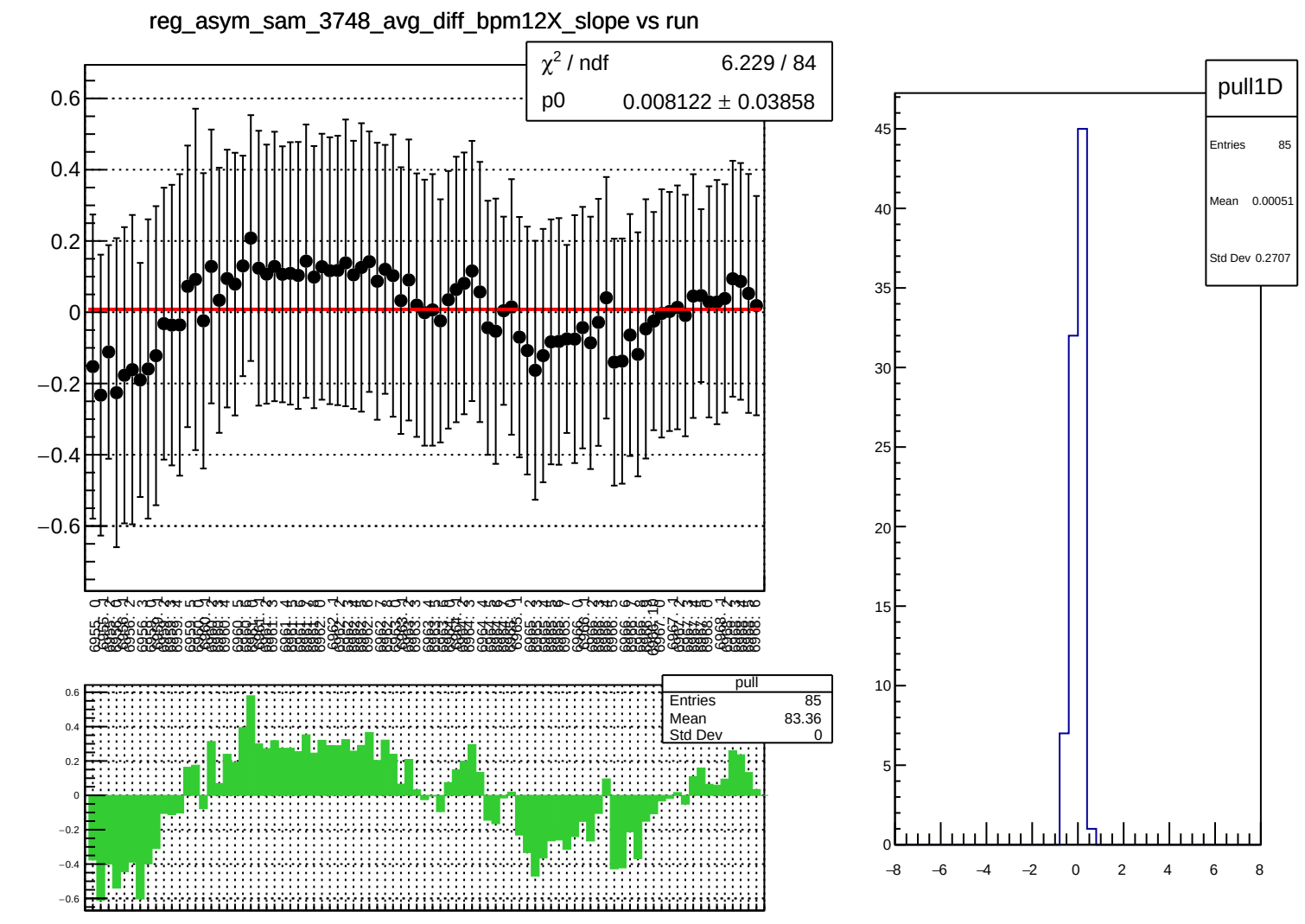

pull1D
Entries 85
Mean 0.003389
Std Dev 0.3382

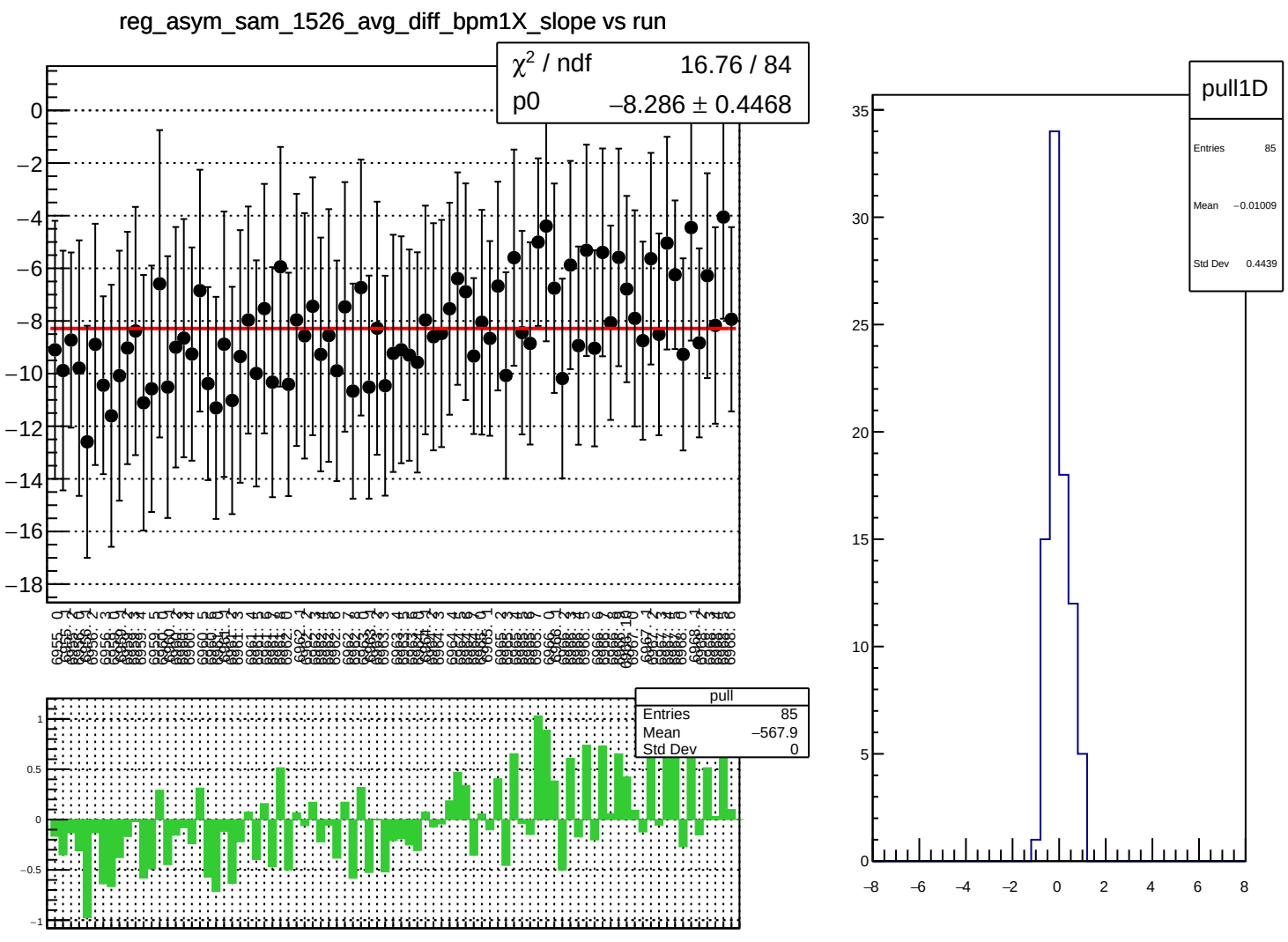

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 5.948 / 84
p0 −18.56 ± 1.309
0
−10
−20
−30
−40
pull
Entries 85
Mean −749.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.002901
Std Dev 0.2645
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

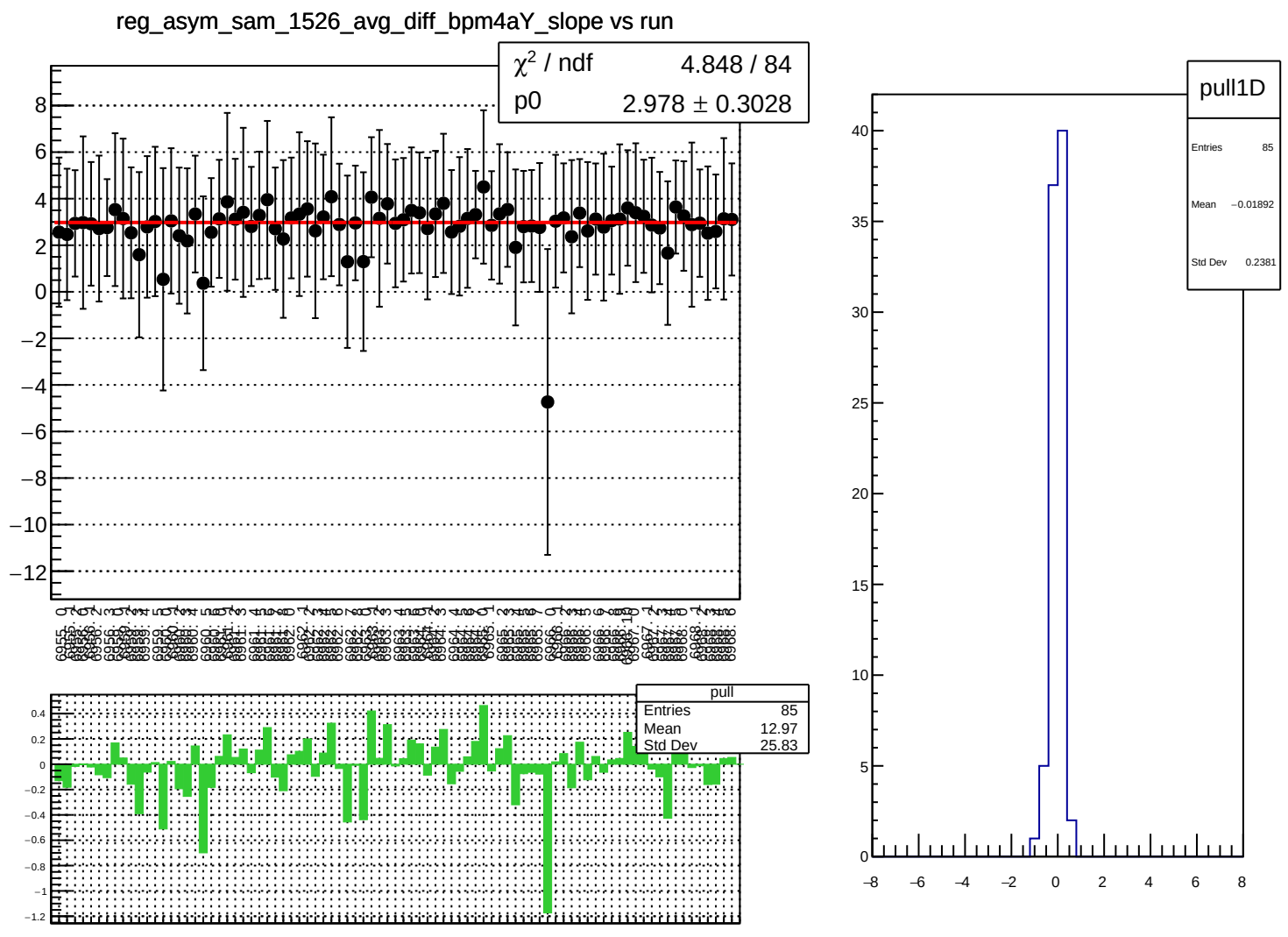

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.672 / 84
p0 −3.206 ± 0.8897
pull
Entries 85
Mean 430.4
Std Dev 0
pull1D
Entries 85
Mean 0.008219
Std Dev 0.2343

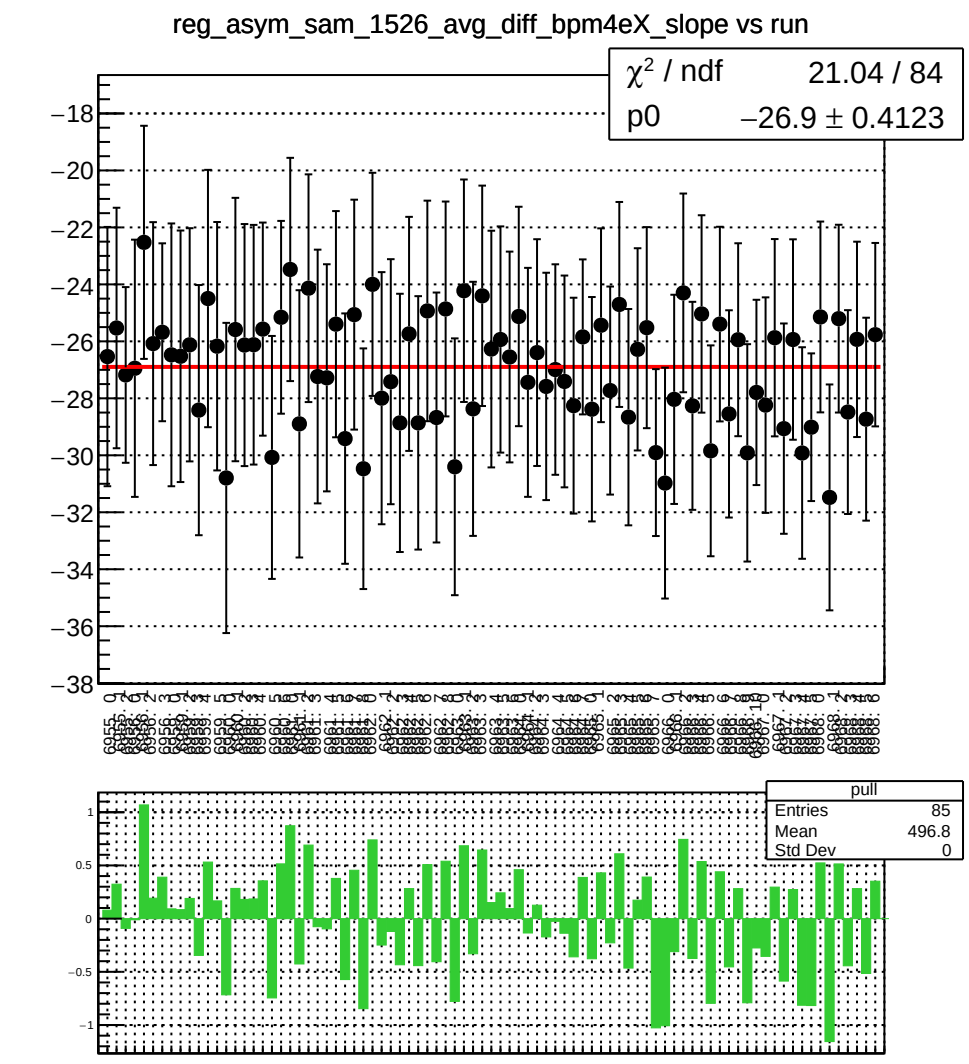

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.062 / 84
p0 −79.18 ± 1.208
−60
−70
−80
−90
−100
pull
Entries 85
Mean −2.303e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 85
Mean 7.858e−05
Std Dev 0.308
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

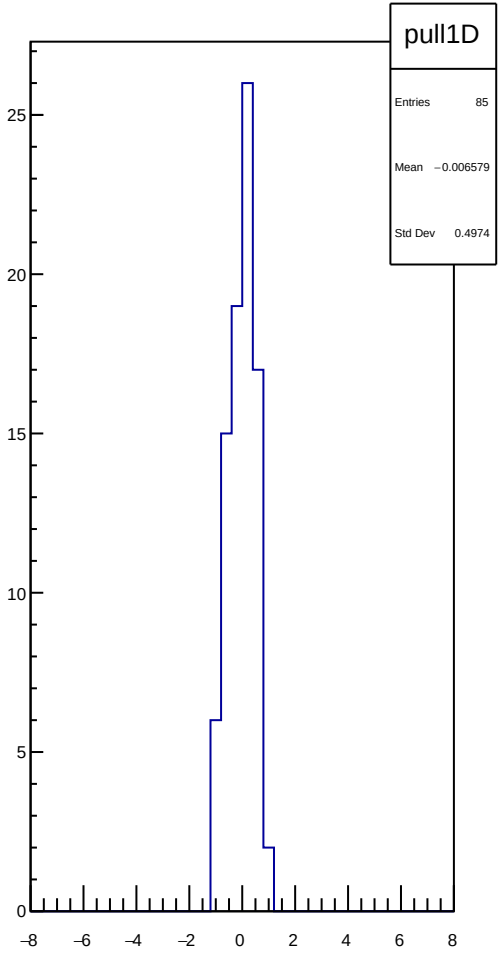

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.68 / 84
p0 66.6 ± 1.013
pull
Entries 85
Mean −3564
Std Dev 0
pull1D
Entries 85
Mean 0.001296
Std Dev 0.2803

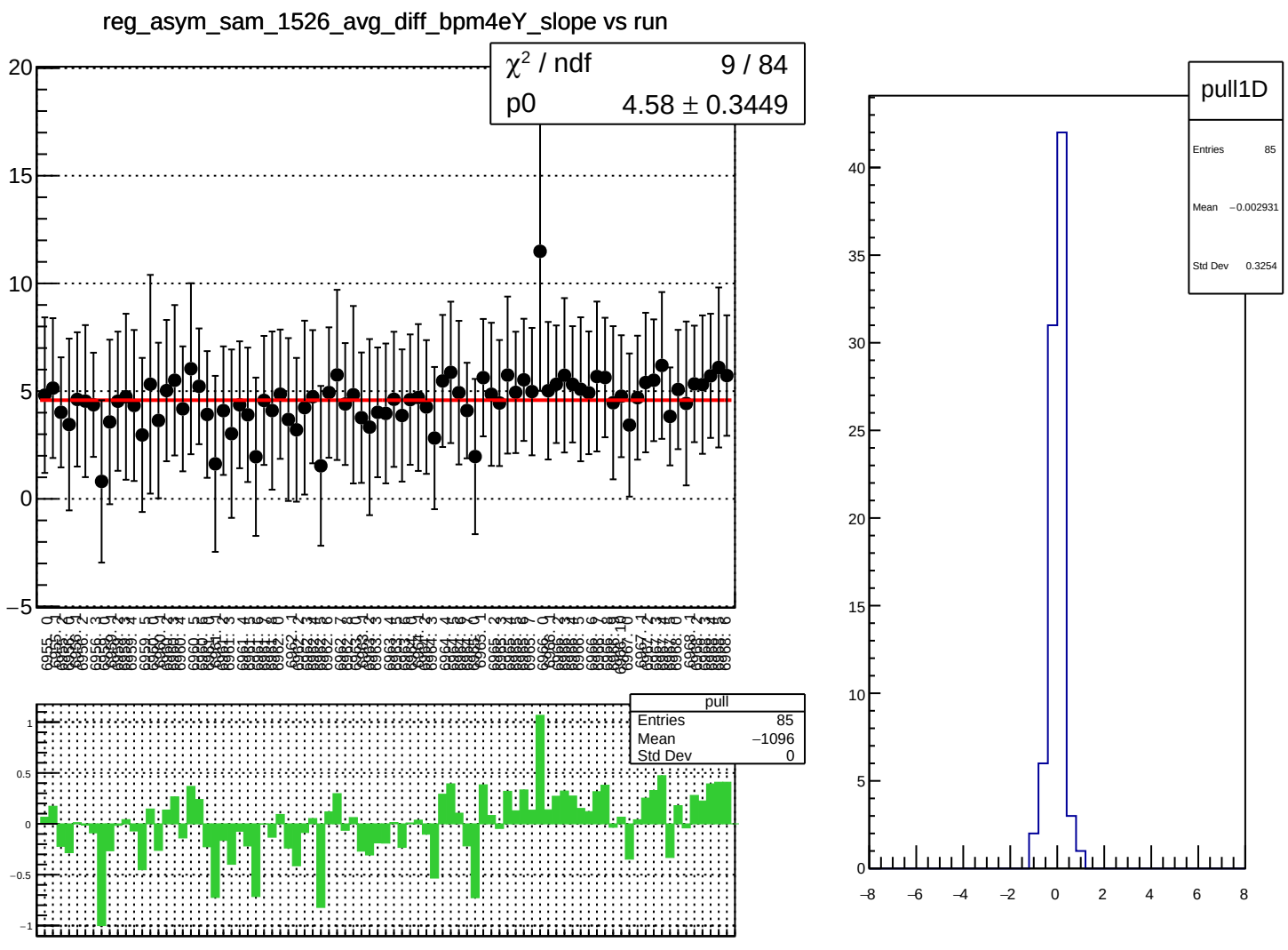

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 6.229 / 84
p0 0.008122 ± 0.03858
pull
Entries 85
Mean 83.36
Std Dev 0
pull1D
Entries 85
Mean 0.00051
Std Dev 0.2707

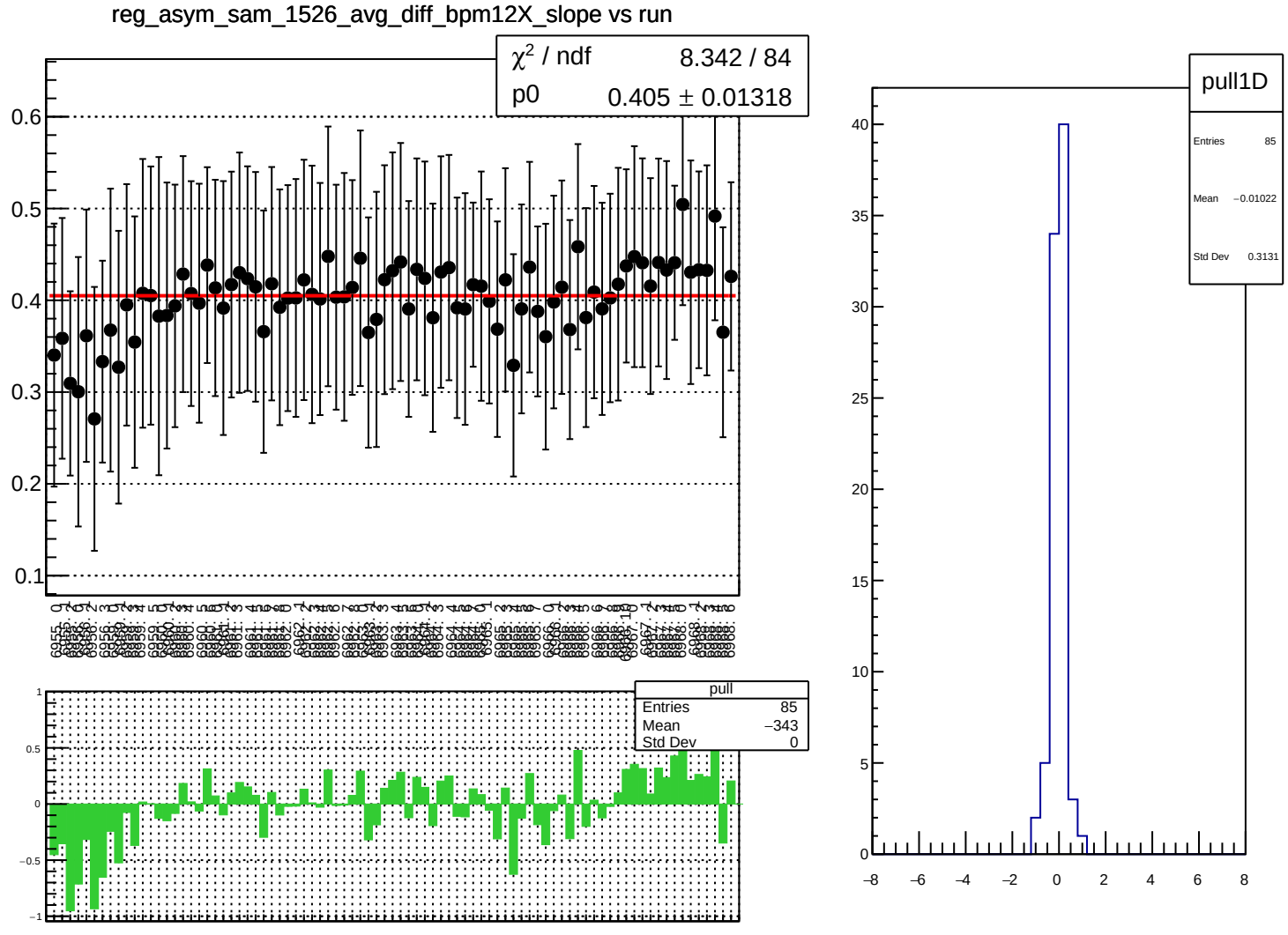

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 16.76 / 84
p0 −8.286 ± 0.4468
pull
Entries 85
Mean −567.9
Std Dev 0
pull1D
Entries 85
Mean −0.01009
Std Dev 0.4439

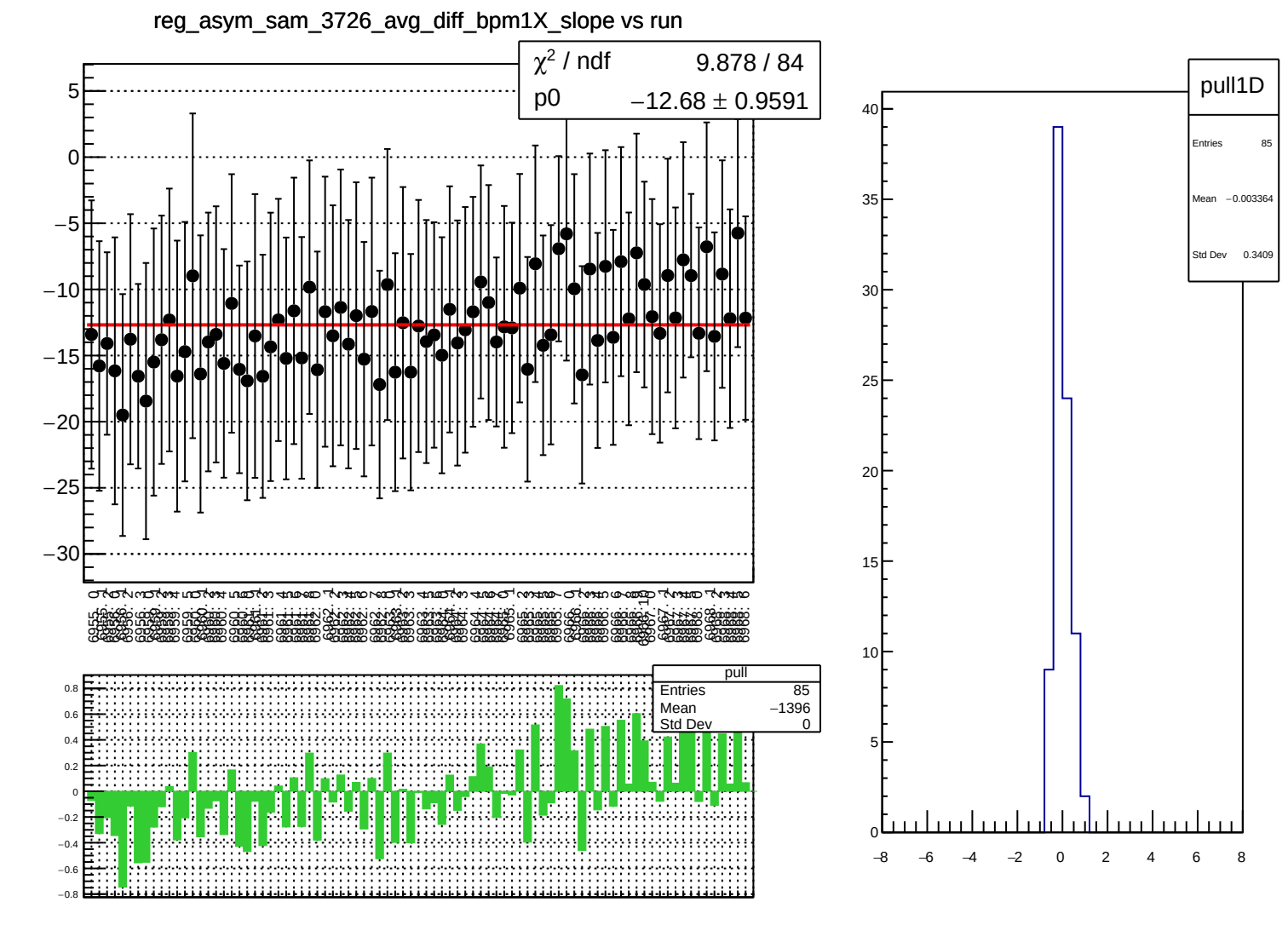

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.848 / 84
p0 2.978 ± 0.3028
pull
Entries 85
Mean 12.97
Std Dev 25.83
pull1D
Entries 85
Mean −0.01892
Std Dev 0.2381

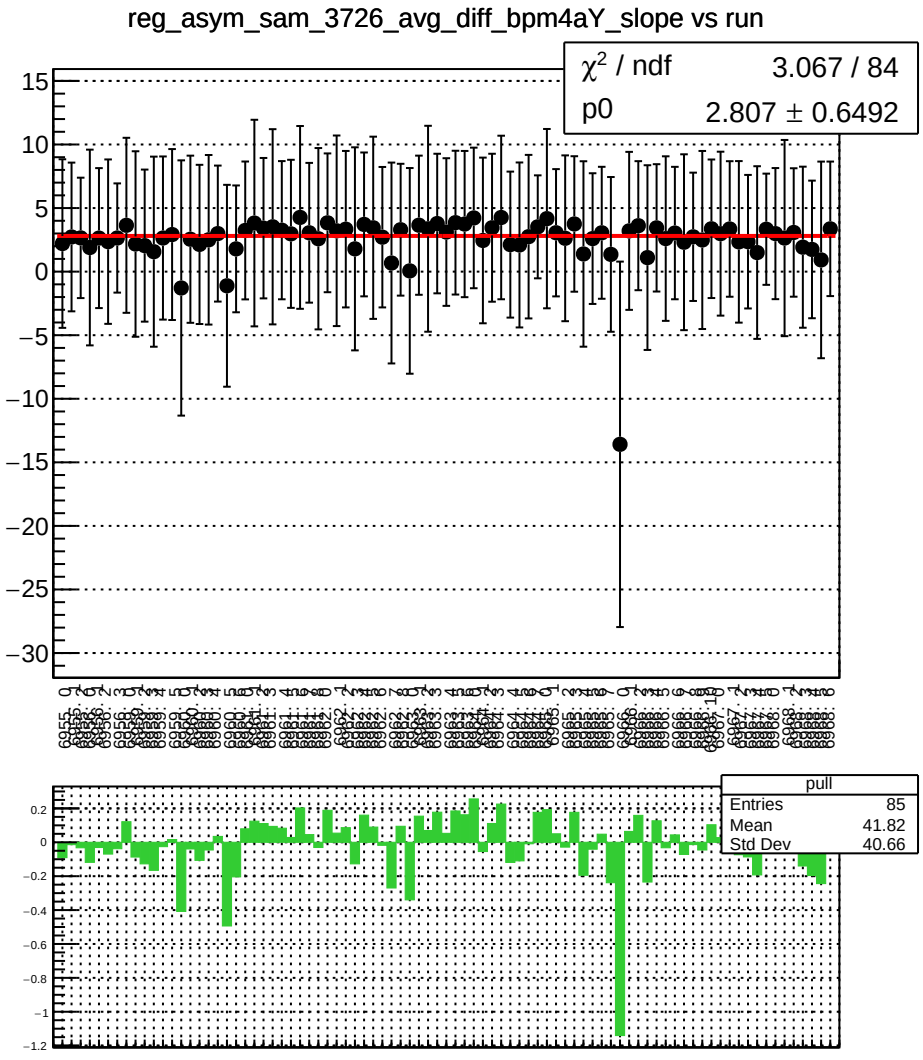

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.04 / 84
p0 −26.9 ± 0.4123
pull
Entries 85
Mean 496.8
Std Dev 0

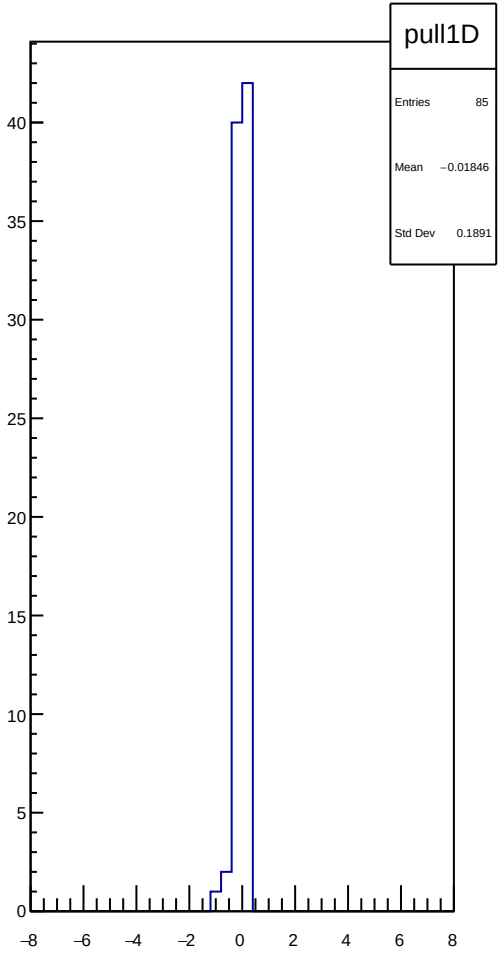

pull1D
Entries 85
Mean −0.006579
Std Dev 0.4974

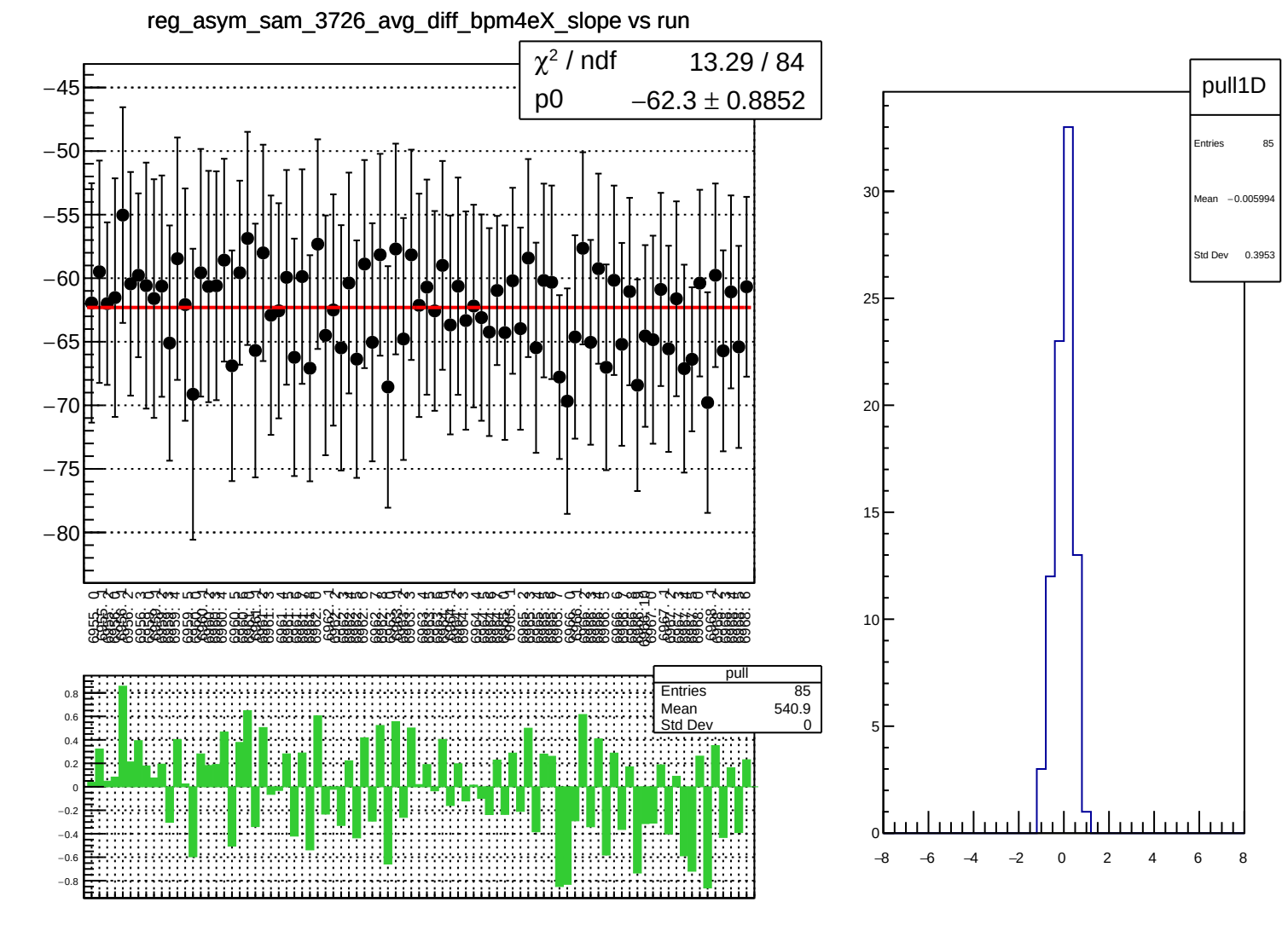

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 9 / 84
p0 4.58 ± 0.3449
pull
Entries 85
Mean −1096
Std Dev 0
pull1D
Entries 85
Mean −0.002931
Std Dev 0.3254

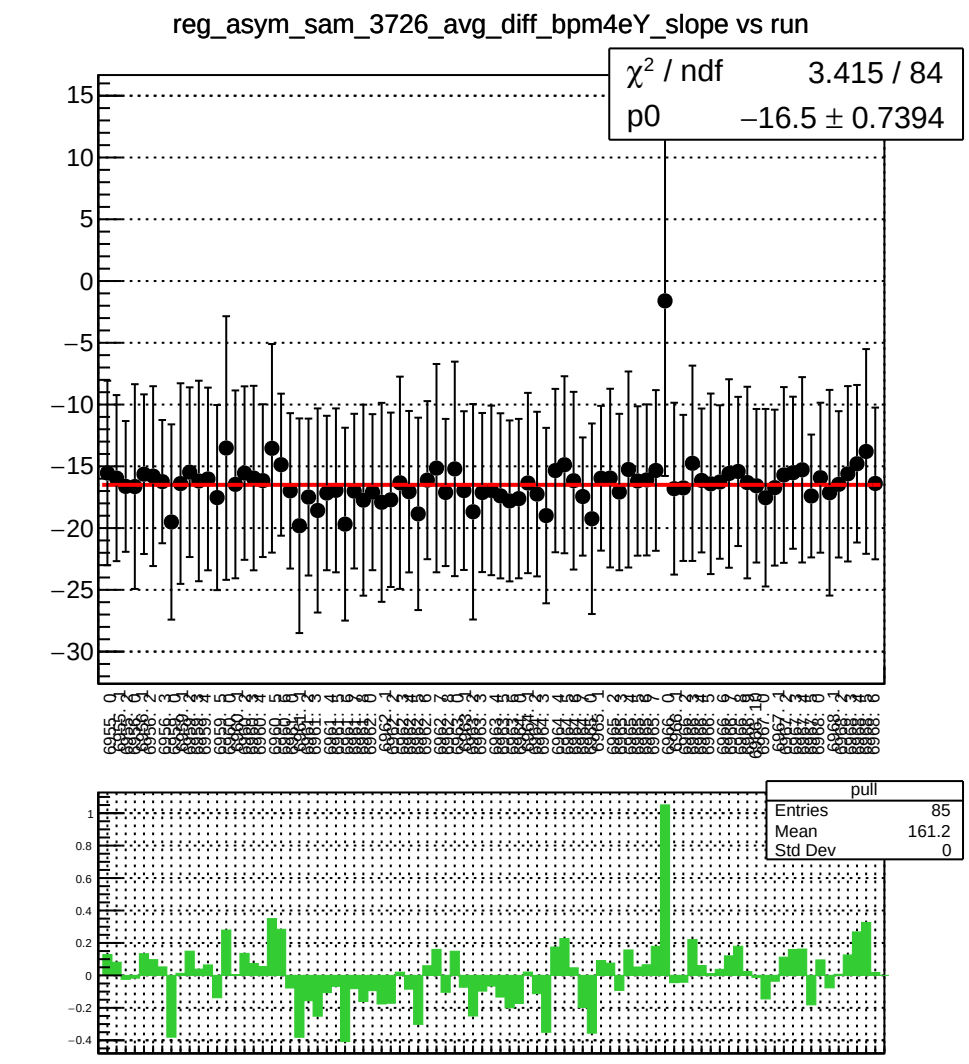

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 8.342 / 84
p0 0.405 ± 0.01318
pull
Entries 85
Mean −343
Std Dev 0
pull1D
Entries 85
Mean −0.01022
Std Dev 0.3131

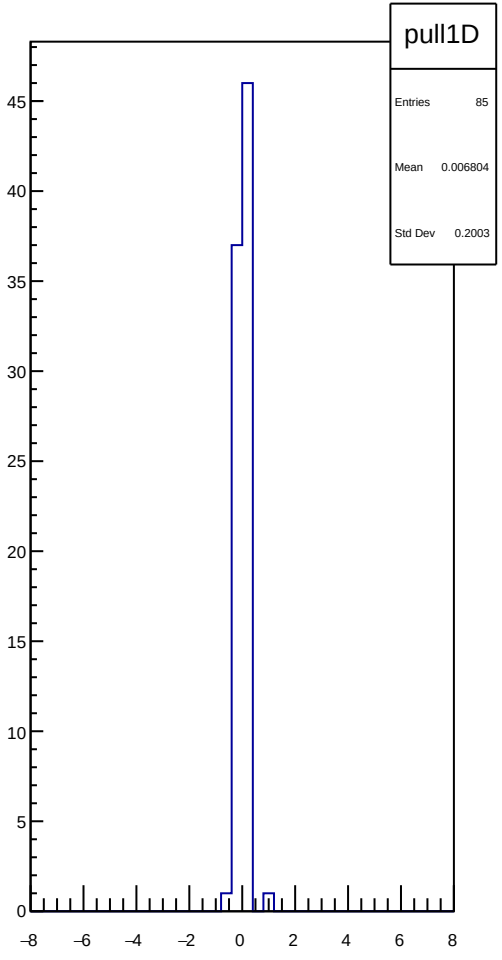

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 9.878 / 84
p0 −12.68 ± 0.9591
pull
Entries 85
Mean −1396
Std Dev 0
pull1D
Entries 85
Mean −0.003364
Std Dev 0.3409

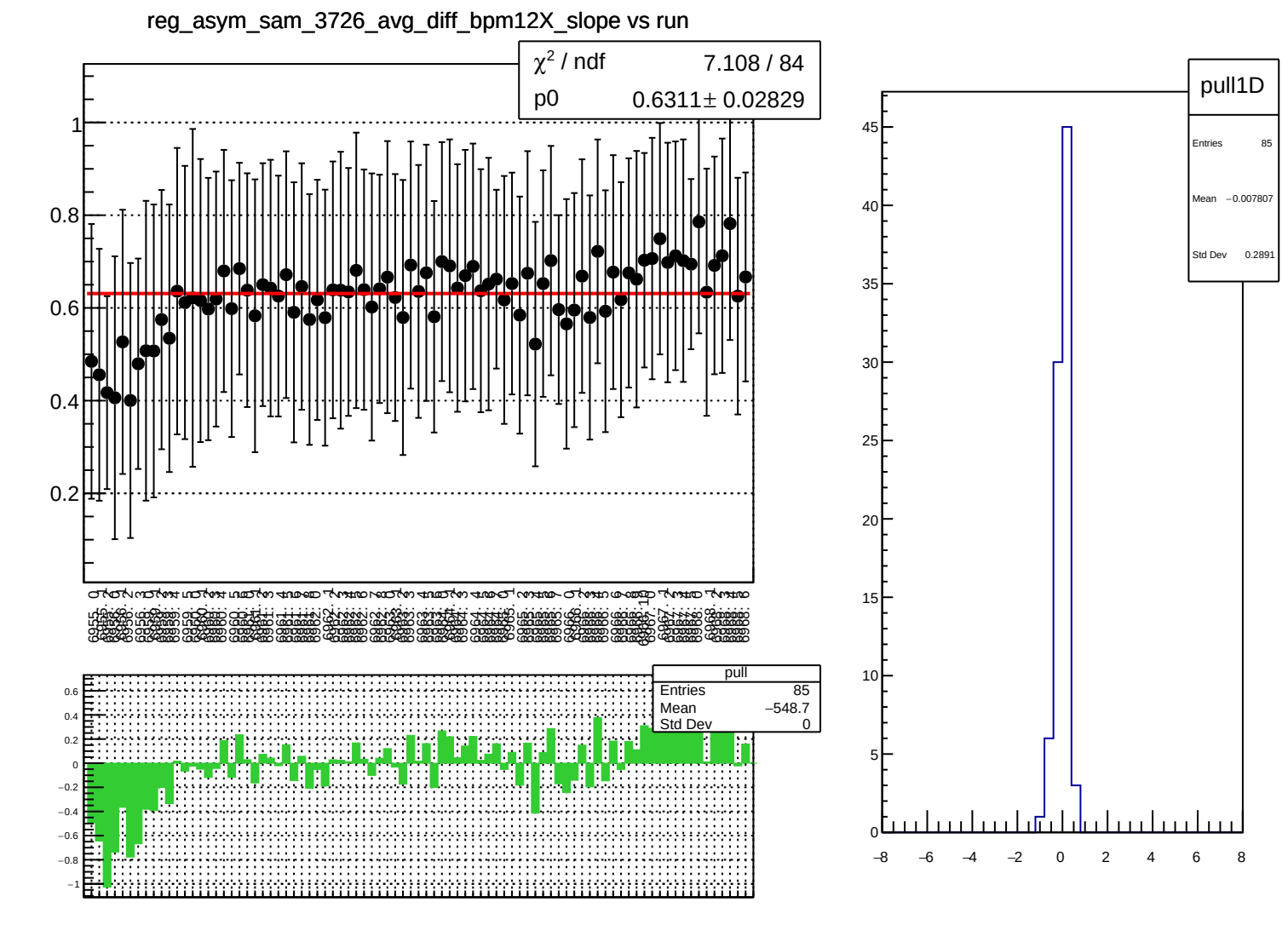

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.067 / 84
p0 2.807 ± 0.6492
pull
Entries 85
Mean 41.82
Std Dev 40.66

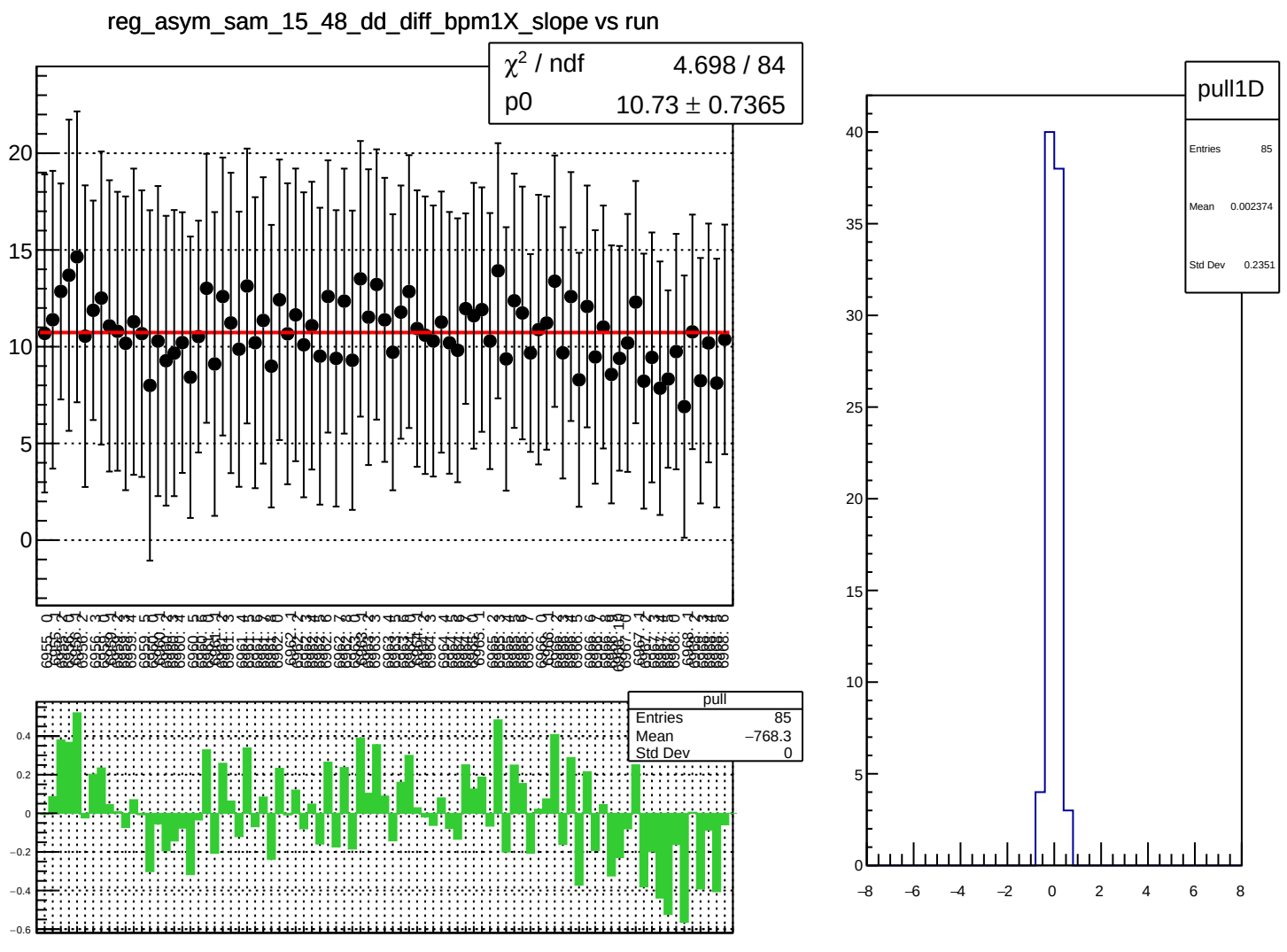

pull1D
Entries 85
Mean −0.01846
Std Dev 0.1891

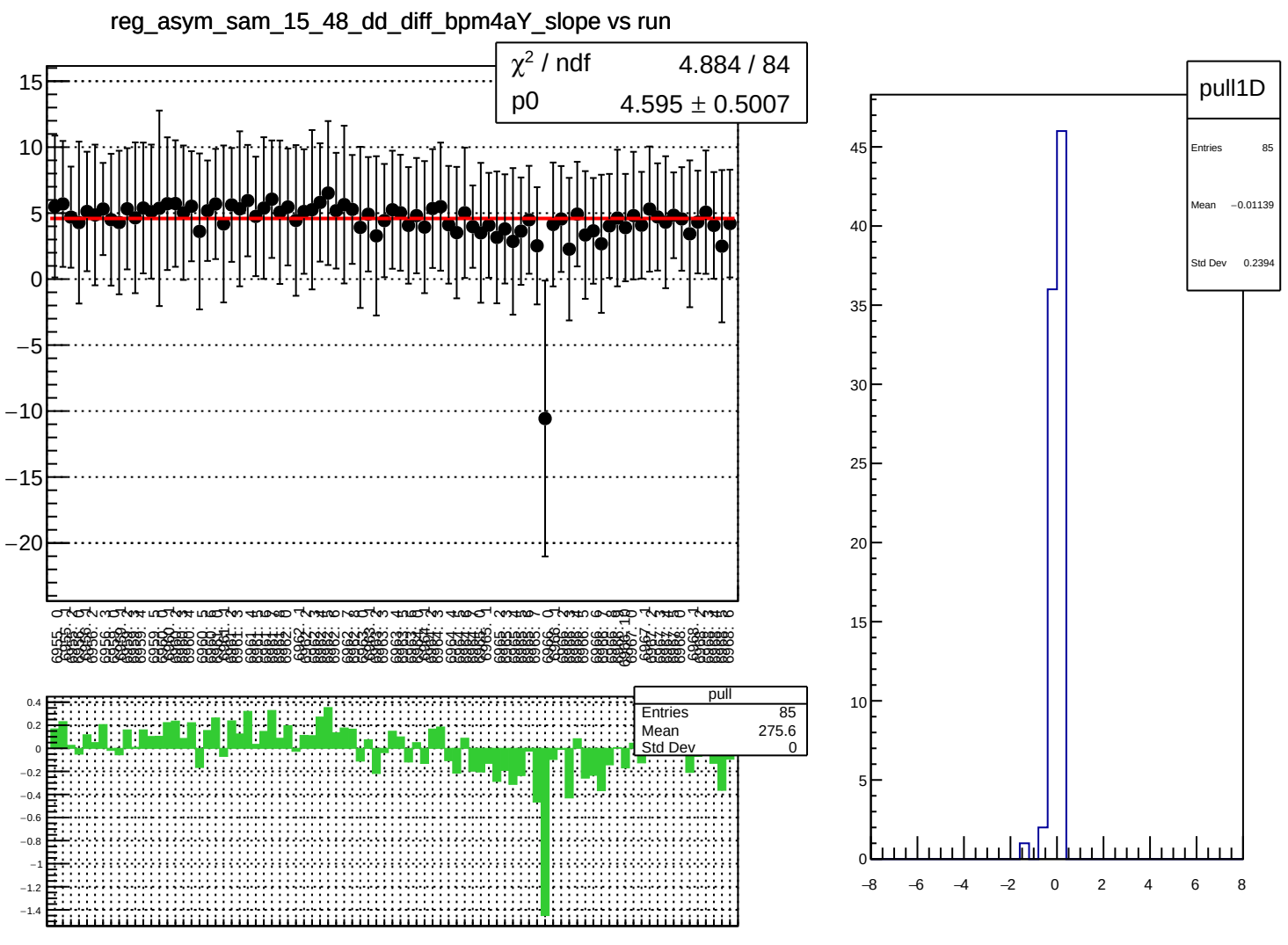

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.29 / 84
p0 −62.3 ± 0.8852
pull
Entries 85
Mean 540.9
Std Dev 0
pull1D
Entries 85
Mean −0.005994
Std Dev 0.3953

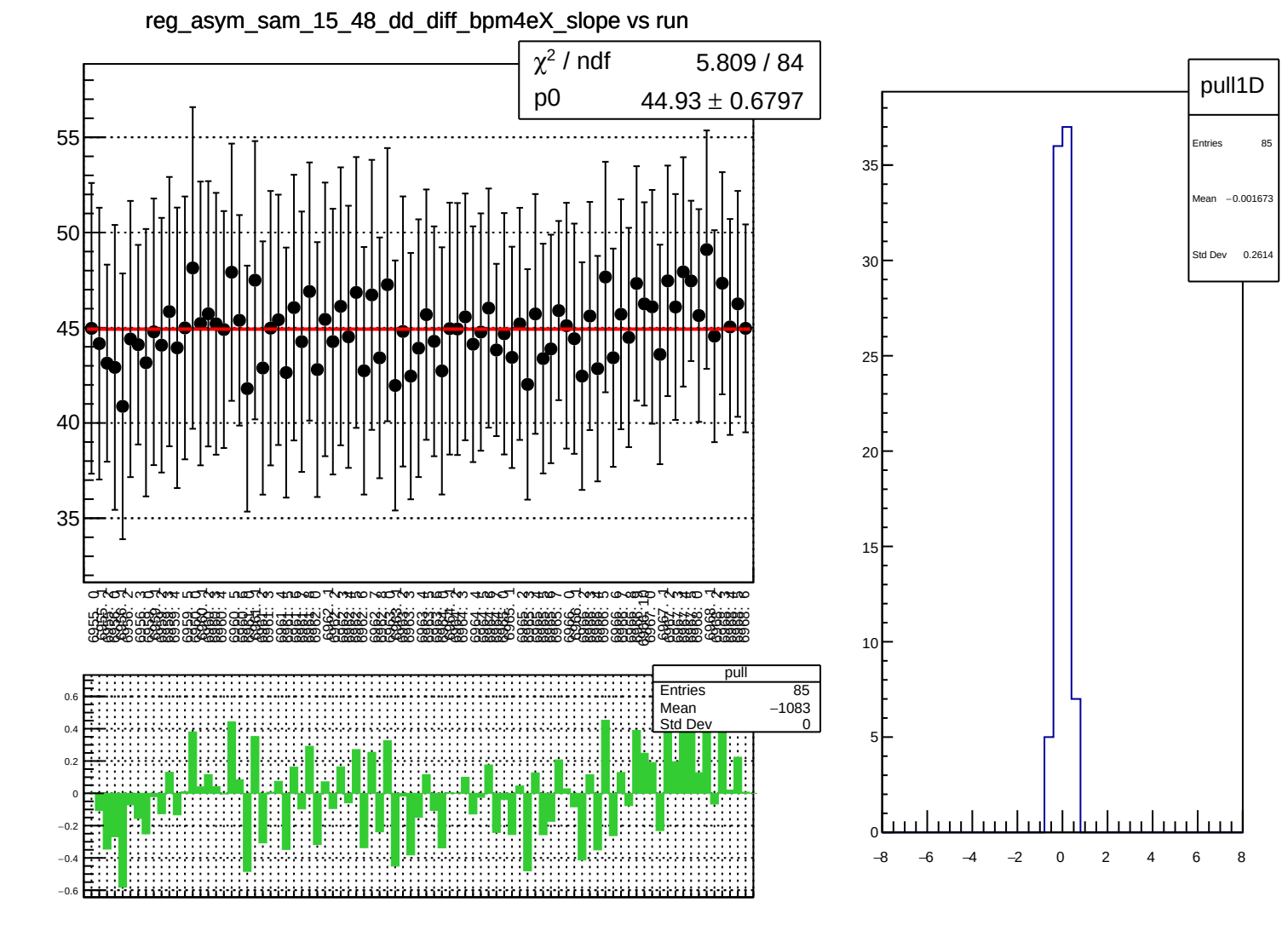

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.415 / 84
p0 −16.5 ± 0.7394
pull
Entries 85
Mean 161.2
Std Dev 0

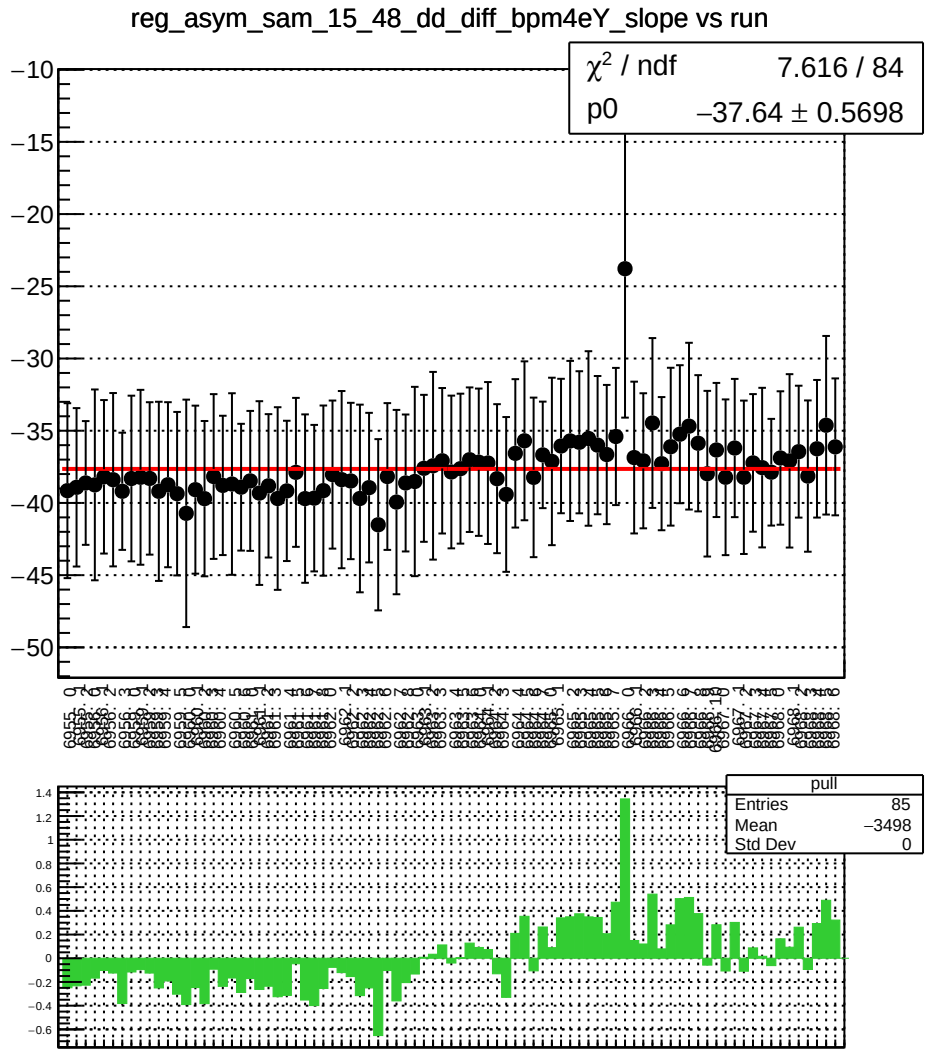

pull1D
Entries 85
Mean 0.006804
Std Dev 0.2003

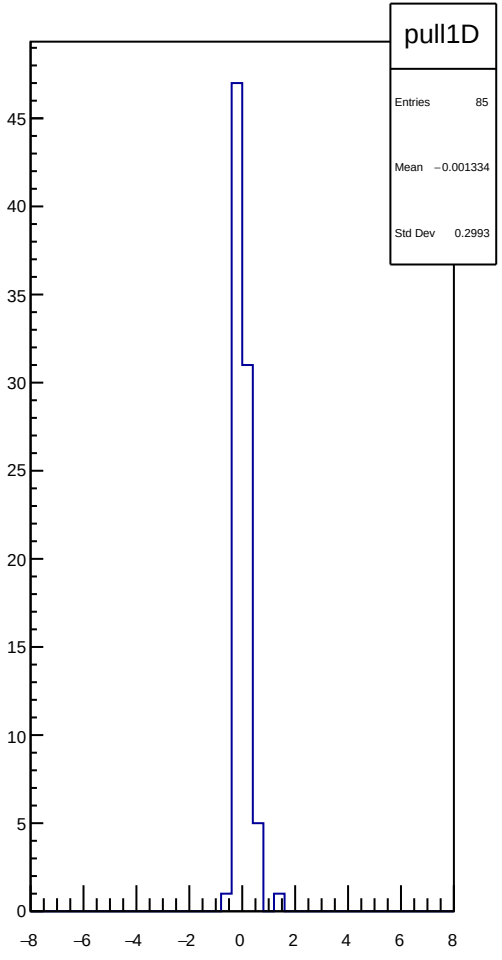

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 7.108 / 84
p0 0.6311± 0.02829
pull
Entries 85
Mean −548.7
Std Dev 0
pull1D
Entries 85
Mean −0.007807
Std Dev 0.2891

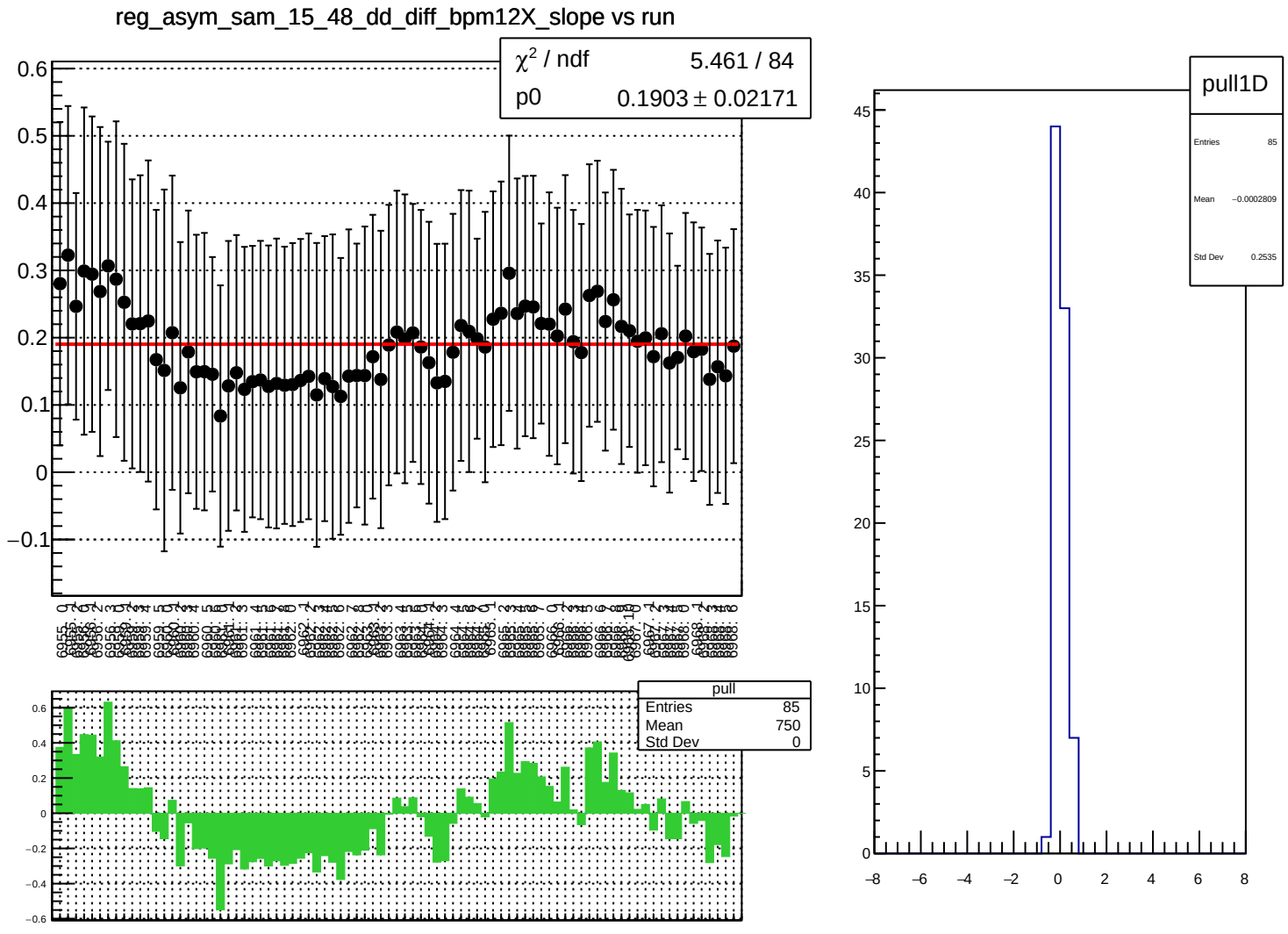

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.698 / 84
p0 10.73 ± 0.7365
pull
Entries 85
Mean −768.3
Std Dev 0
pull1D
Entries 85
Mean 0.002374
Std Dev 0.2351

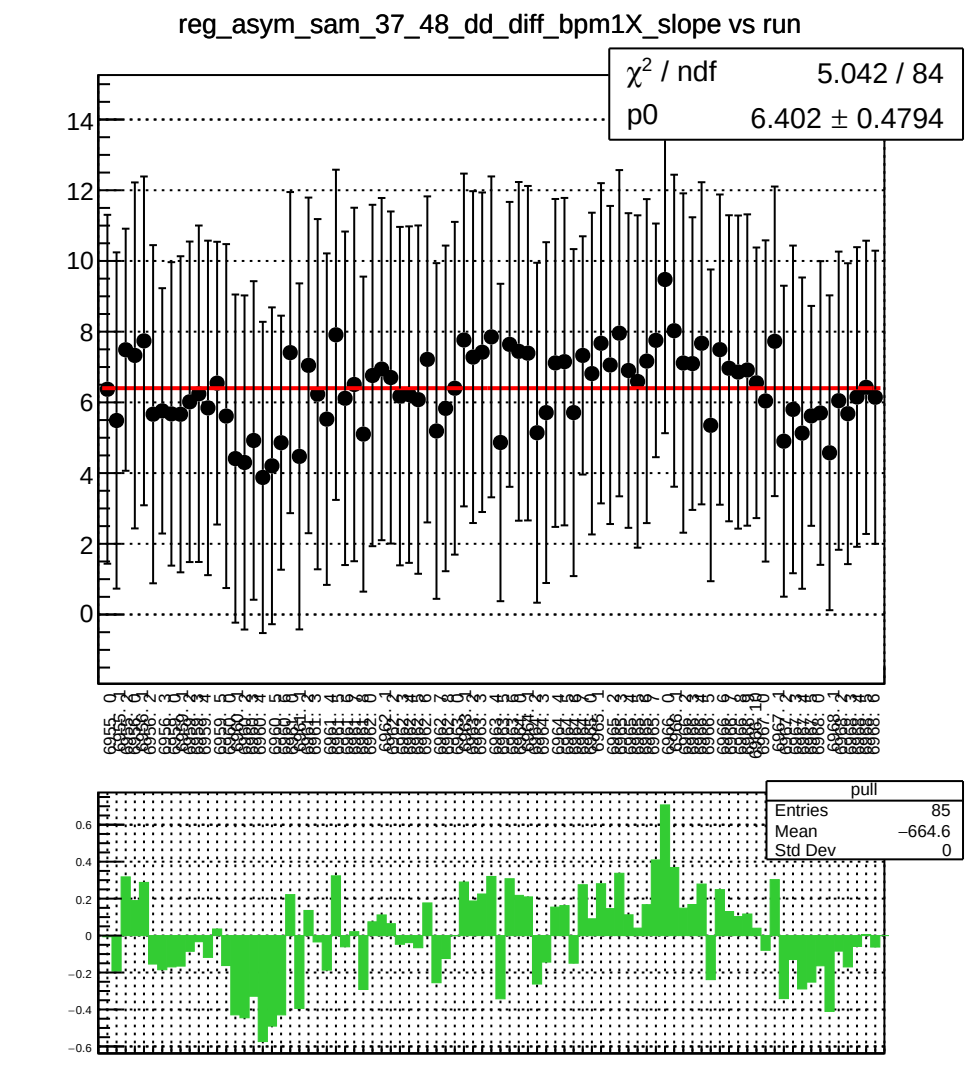

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.884 / 84
p0 4.595 ± 0.5007
pull
Entries 85
Mean 275.6
Std Dev 0
pull1D
Entries 85
Mean −0.01139
Std Dev 0.2394

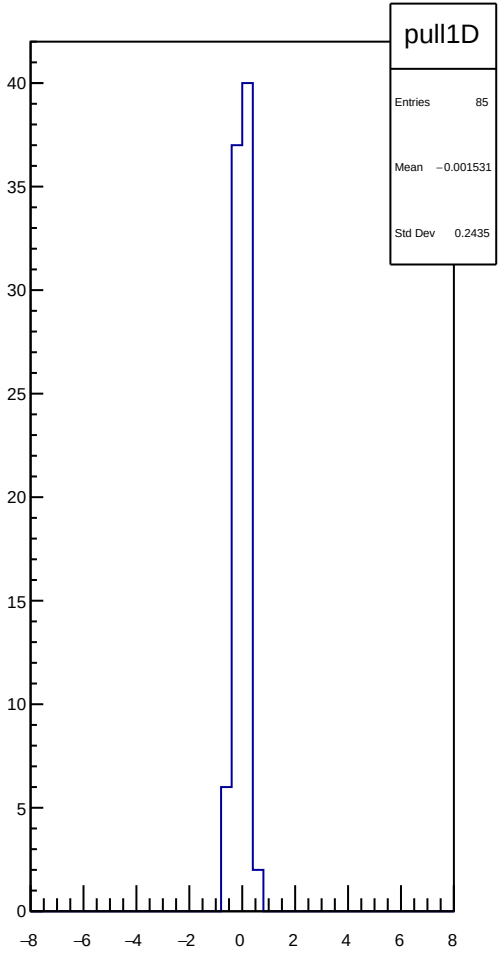

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.809 / 84
p0 44.93 ± 0.6797
pull
Entries 85
Mean −1083
Std Dev 0
pull1D
Entries 85
Mean −0.001673
Std Dev 0.2614

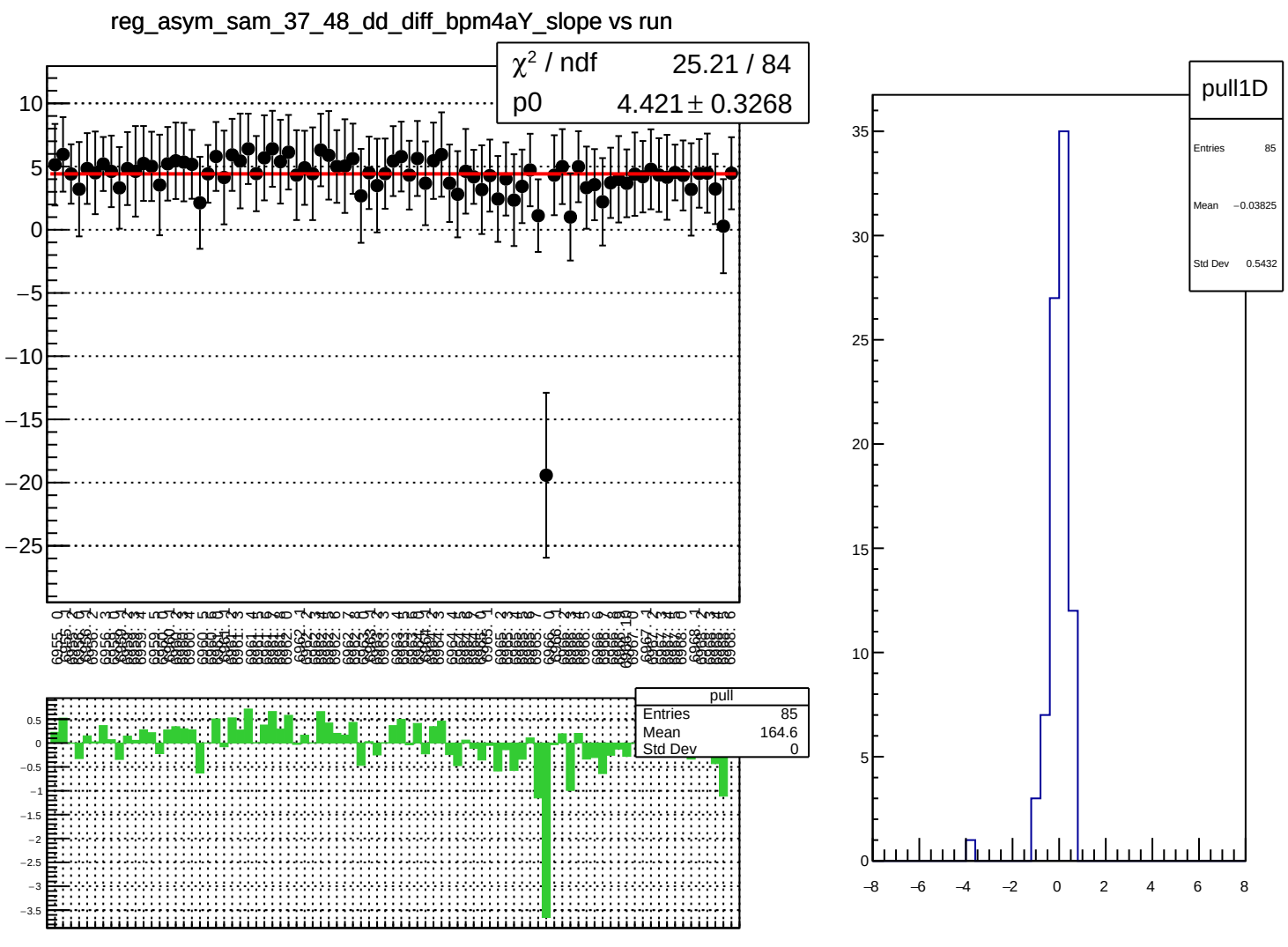

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.616 / 84
p0 −37.64 ± 0.5698
pull
Entries 85
Mean −3498
Std Dev 0

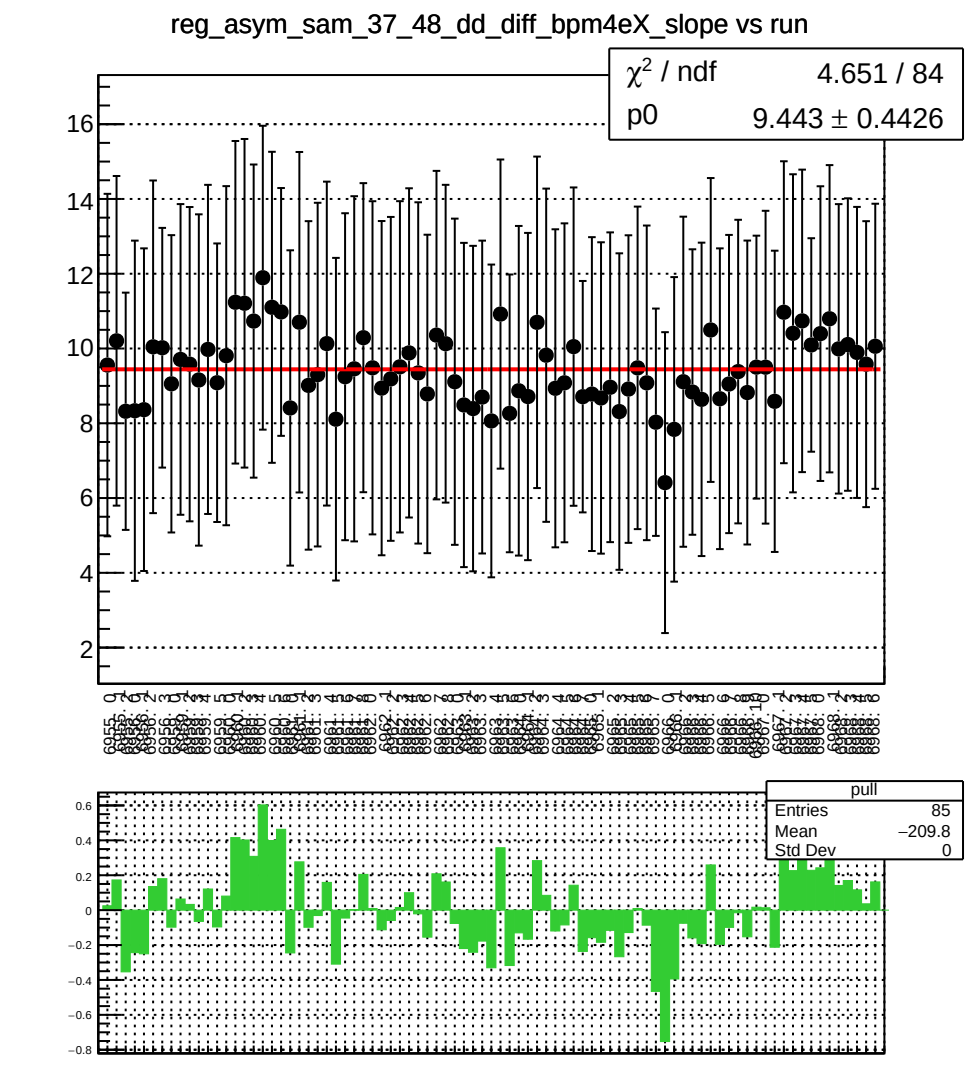

pull1D
Entries 85
Mean −0.001334
Std Dev 0.2993

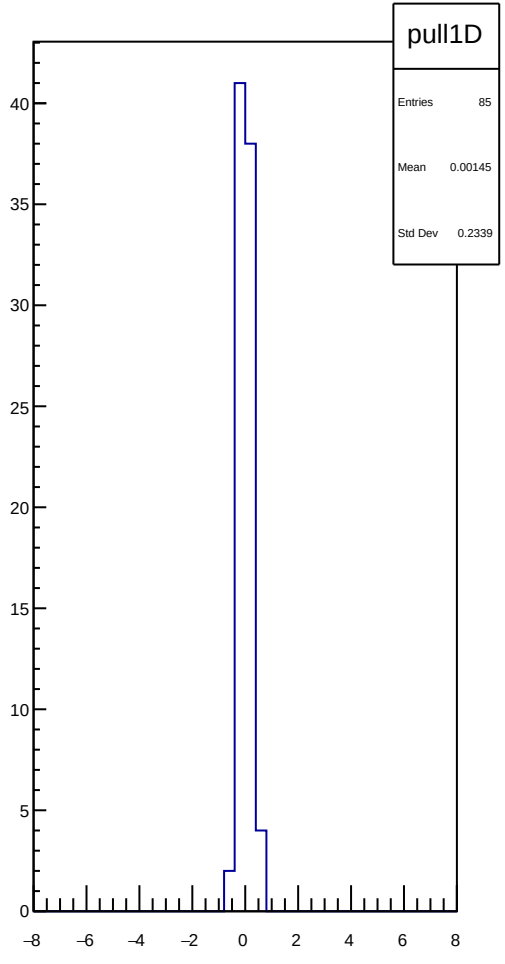

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.461 / 84
p0 0.1903 ± 0.02171
pull
Entries 85
Mean 750
Std Dev 0
pull1D
Entries 85
Mean −0.0002809
Std Dev 0.2535

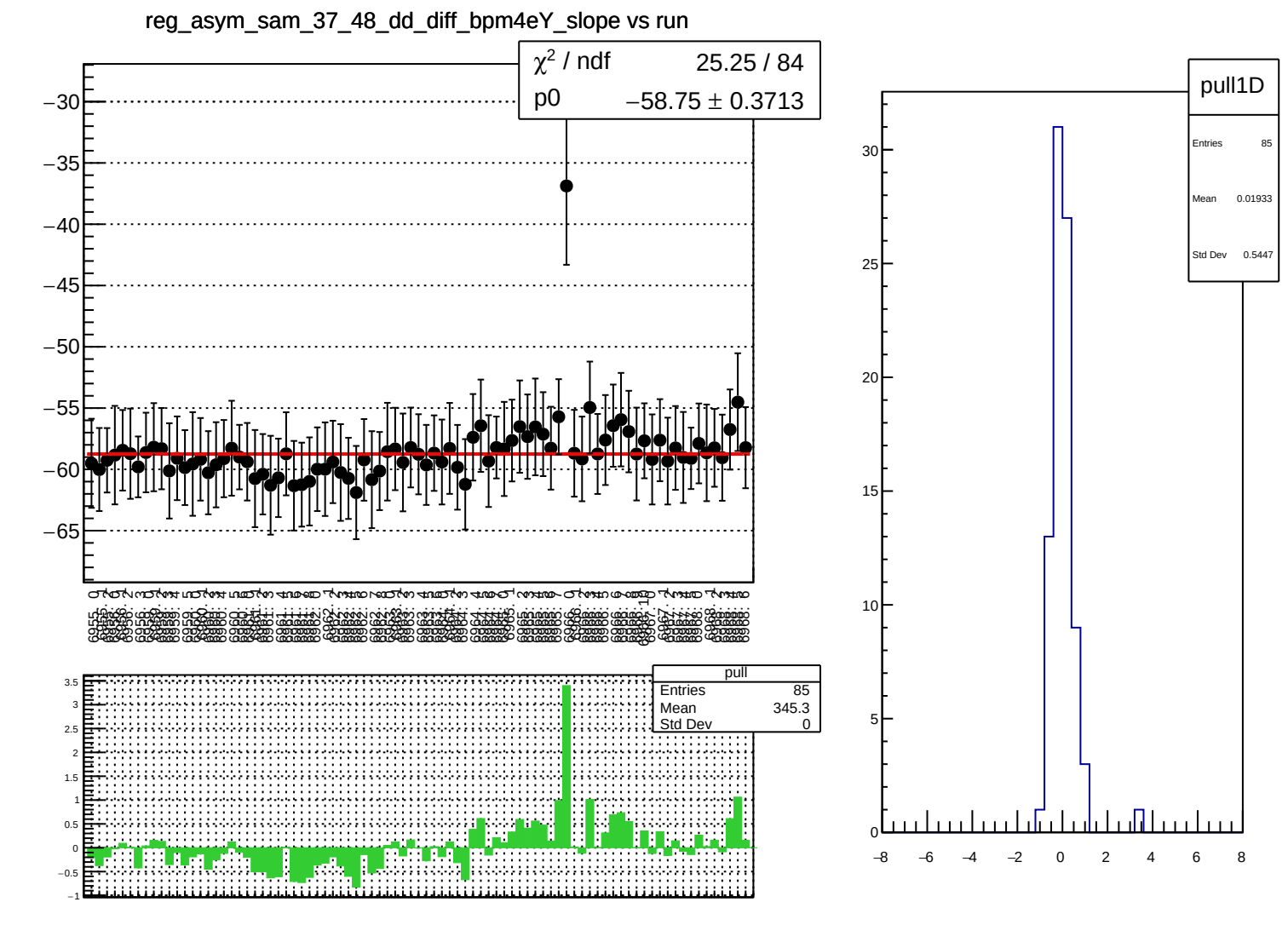

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.042 / 84
p0 6.402 ± 0.4794
pull
Entries 85
Mean −664.6
Std Dev 0

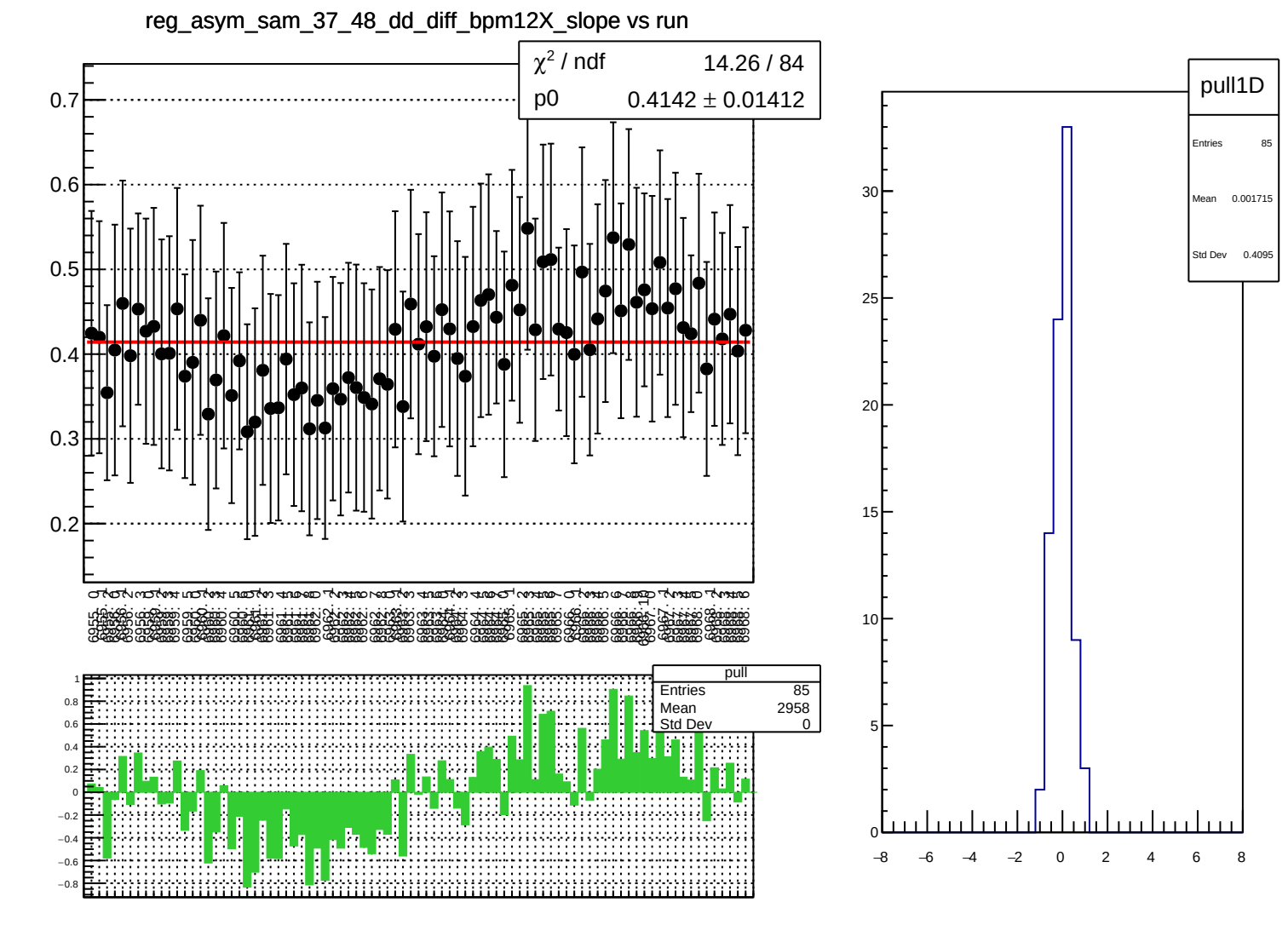

pull1D
Entries 85
Mean −0.001531
Std Dev 0.2435

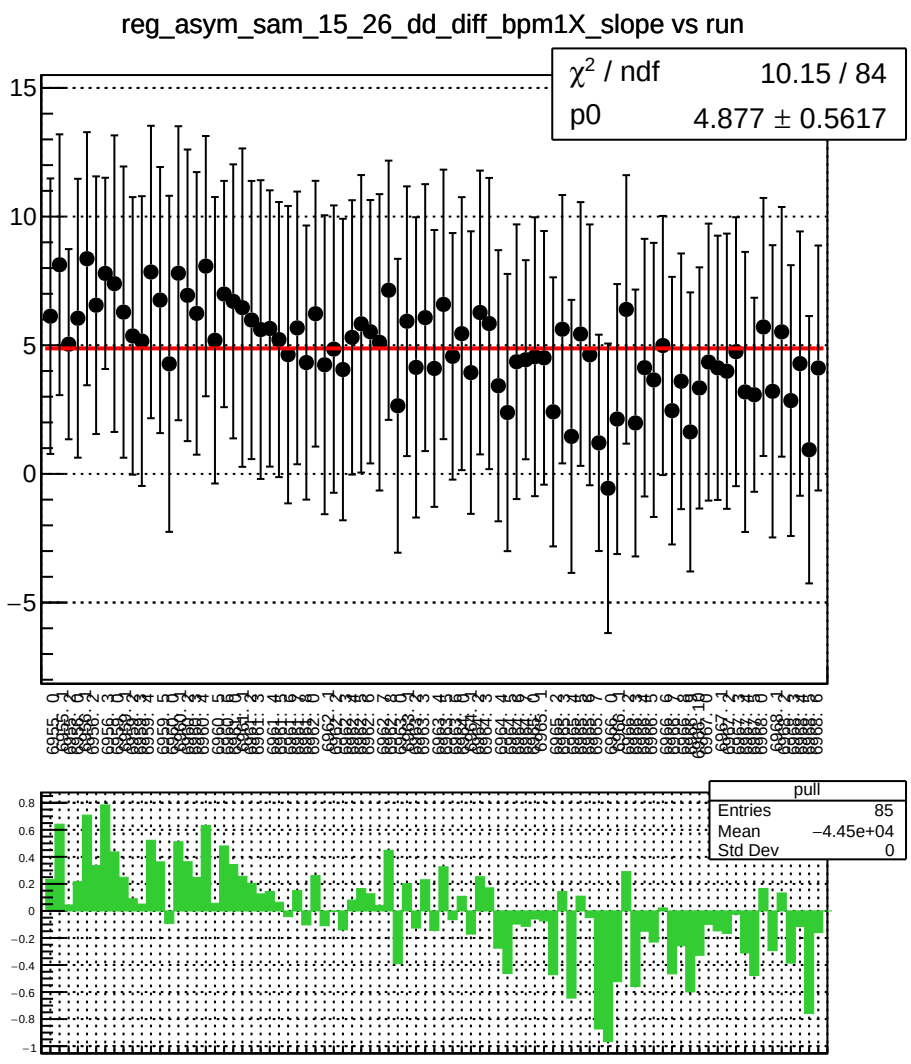

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.21 / 84
p0 4.421 ± 0.3268
pull
Entries 85
Mean 164.6
Std Dev 0
pull1D
Entries 85
Mean −0.03825
Std Dev 0.5432

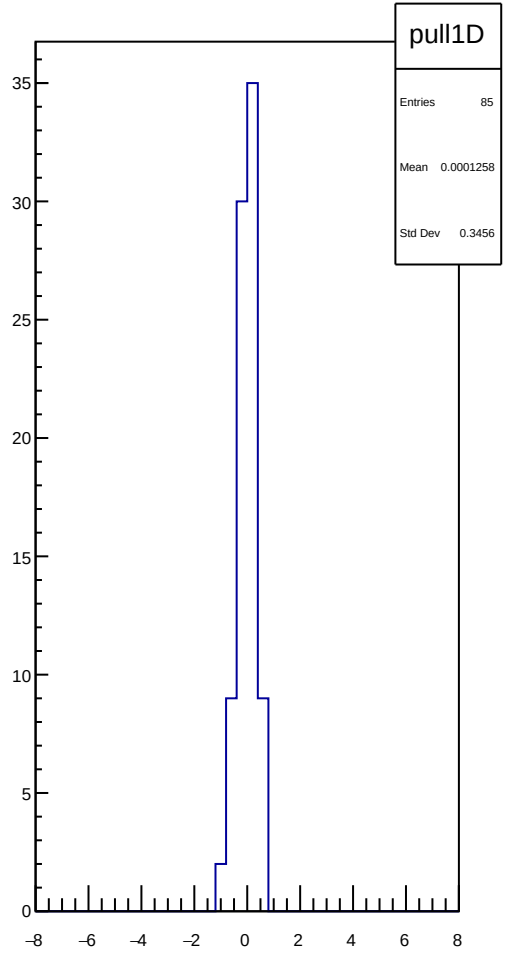

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.651 / 84
p0 9.443 ± 0.4426
pull
Entries 85
Mean −209.8
Std Dev 0

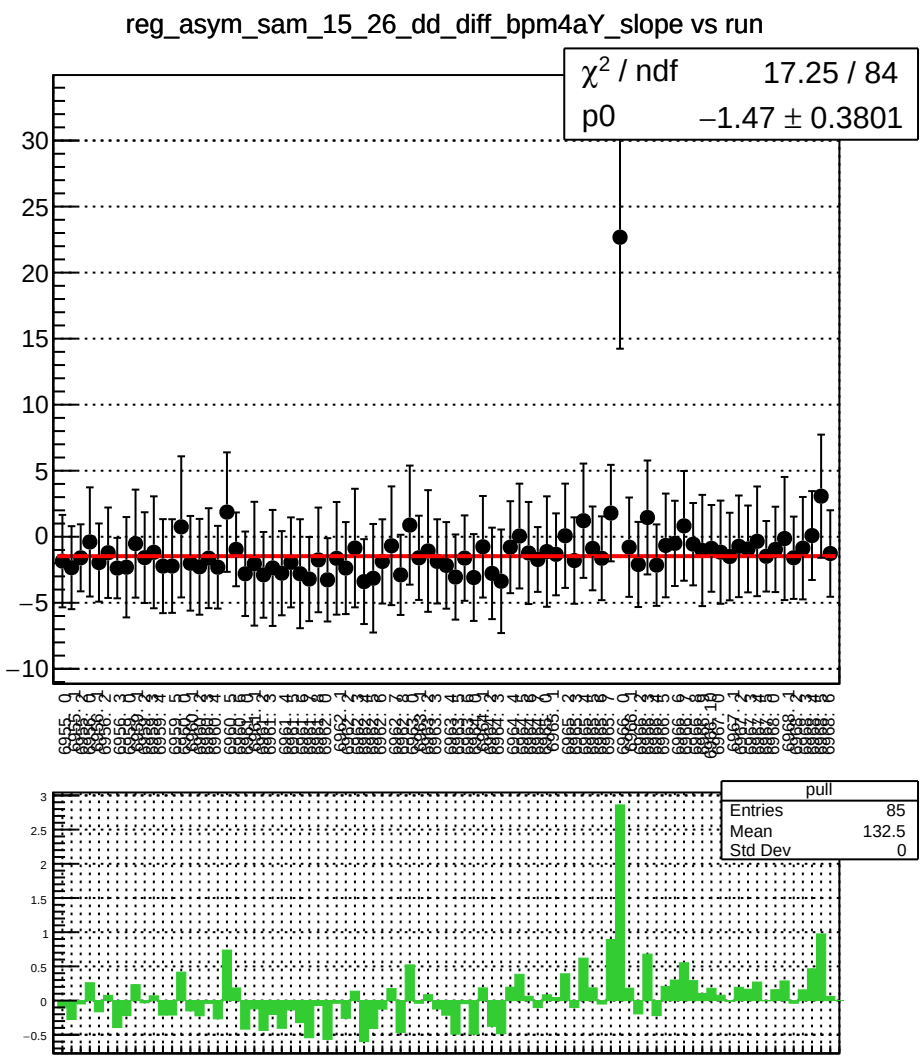

pull1D
Entries 85
Mean 0.00145
Std Dev 0.2339

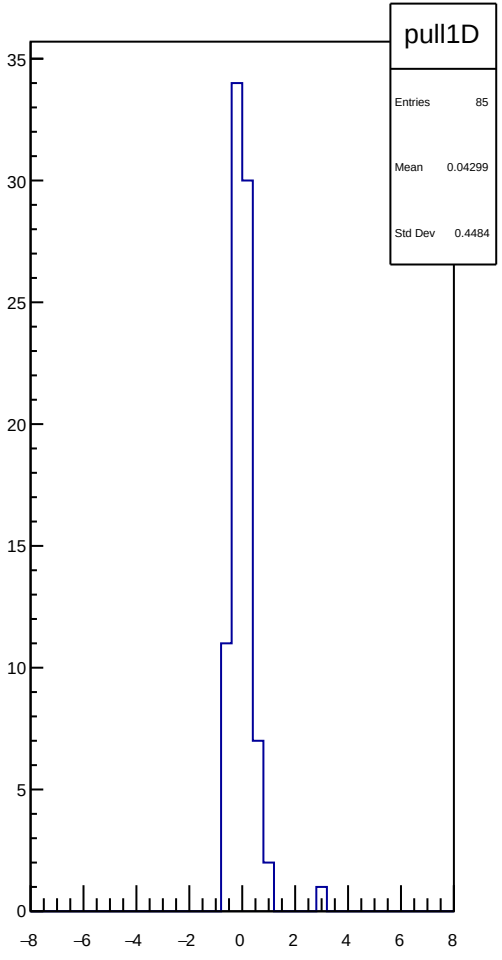

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.25 / 84
p0 −58.75 ± 0.3713
pull
Entries 85
Mean 345.3
Std Dev 0
pull1D
Entries 85
Mean 0.01933
Std Dev 0.5447

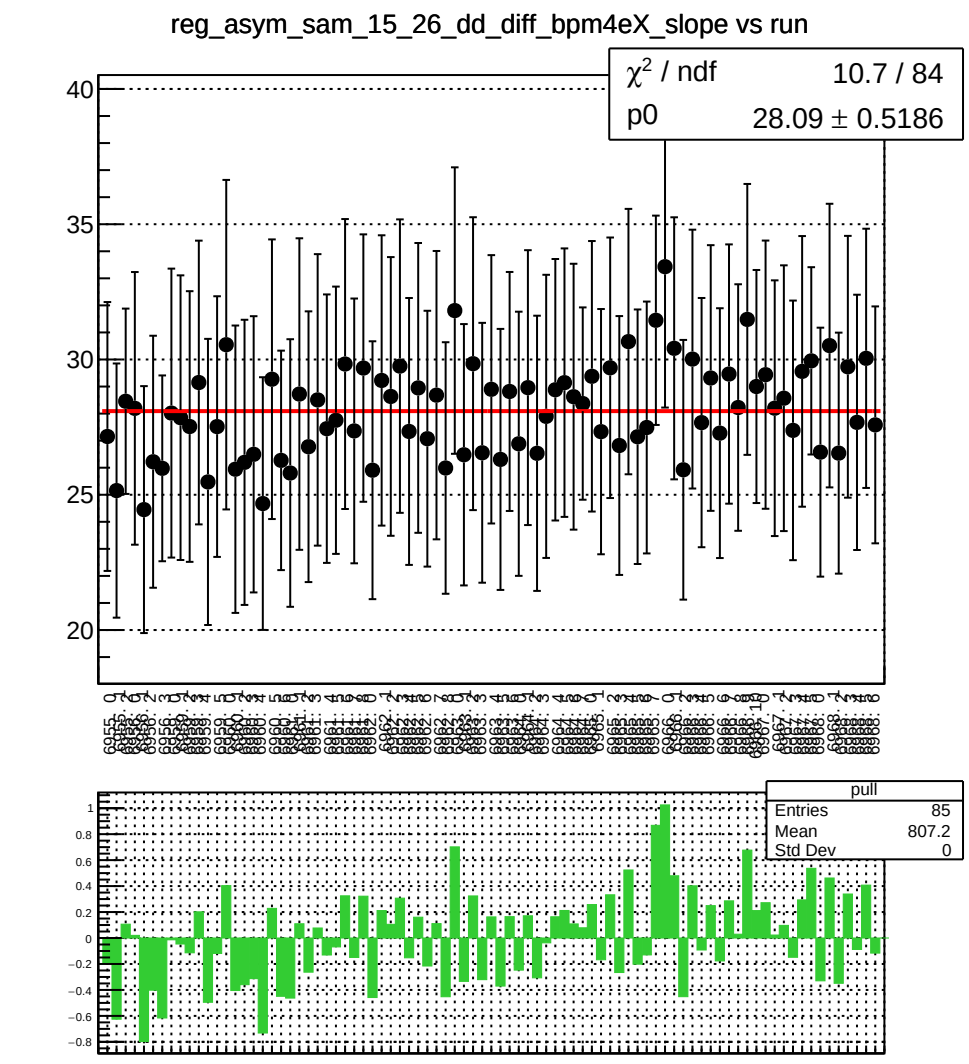

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 14.26 / 84
p0 0.4142 ± 0.01412
pull
Entries 85
Mean 2958
Std Dev 0
pull1D
Entries 85
Mean 0.001715
Std Dev 0.4095

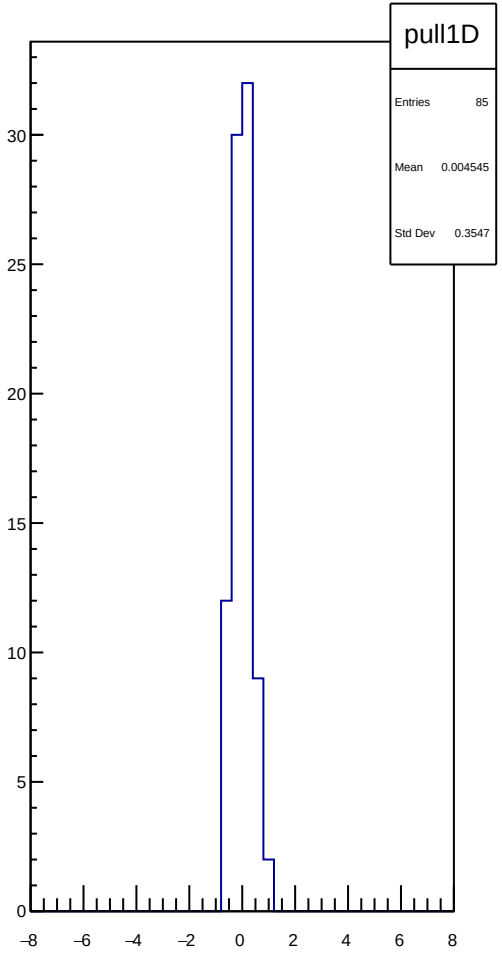

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 10.15 / 84
p0 4.877 ± 0.5617
pull
Entries 85
Mean −4.45e+04
Std Dev 0

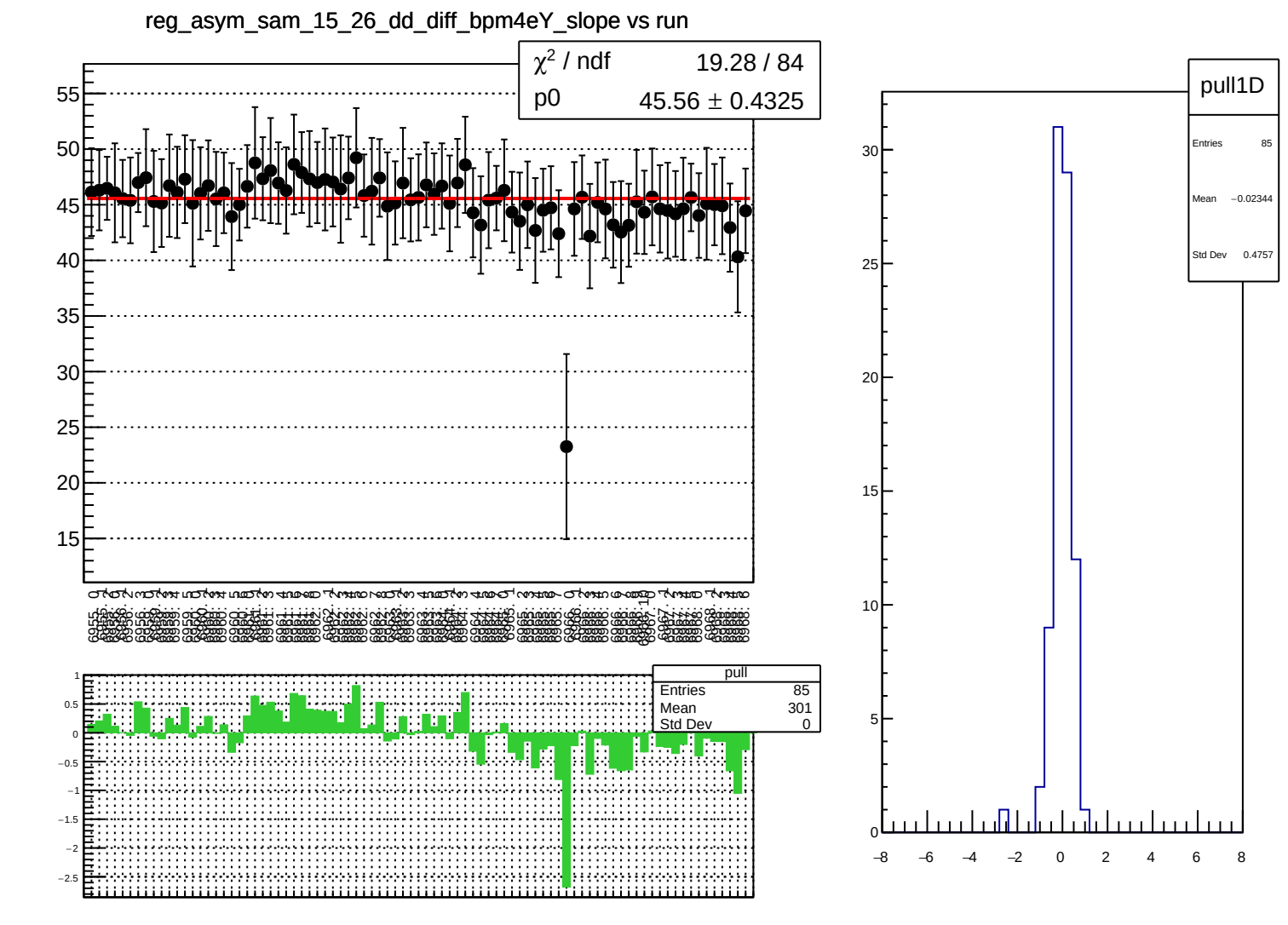

pull1D
Entries 85
Mean 0.0001258
Std Dev 0.3456

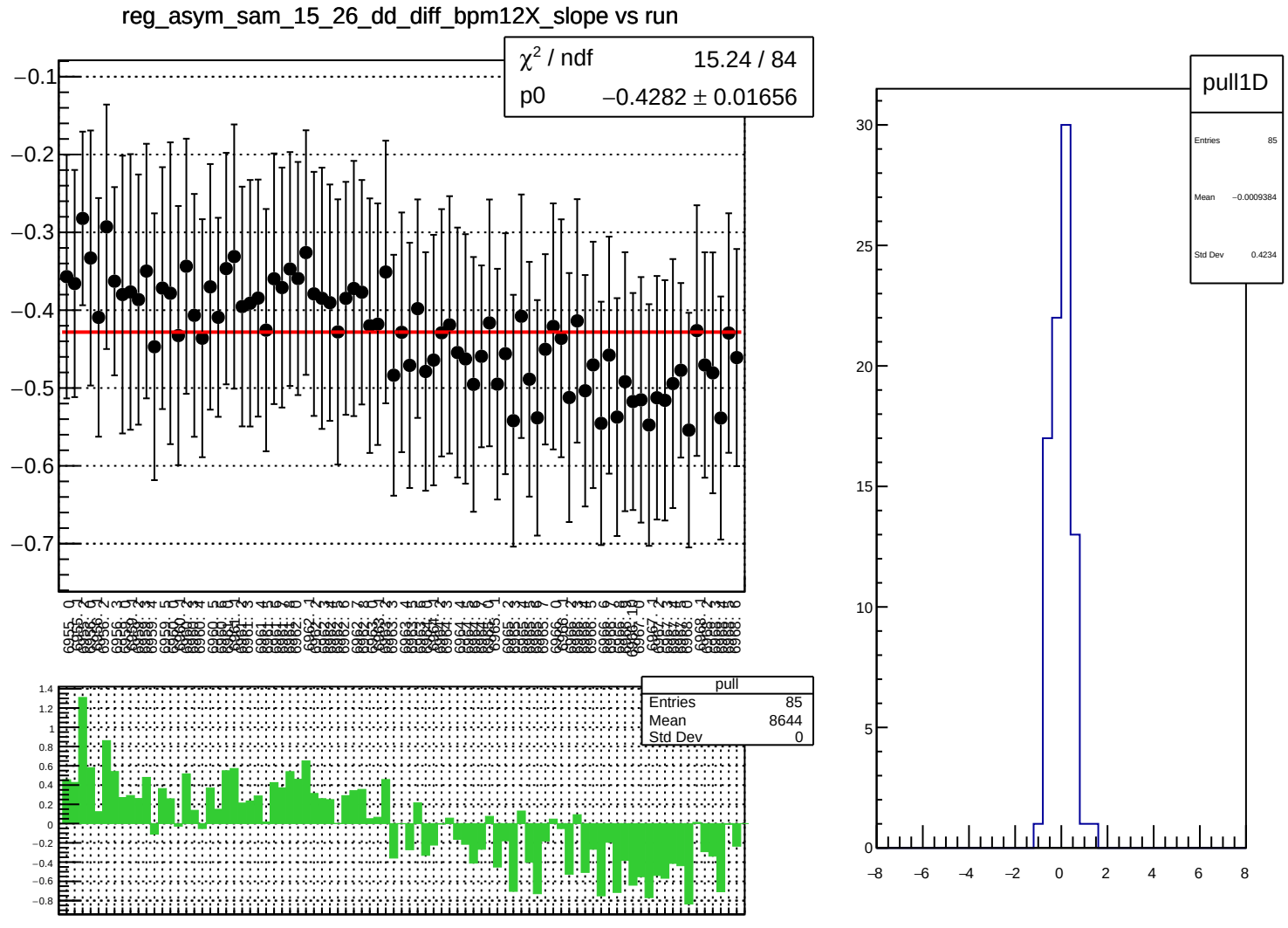

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.25 / 84
p0 −1.47 ± 0.3801
pull
Entries 85
Mean 132.5
Std Dev 0

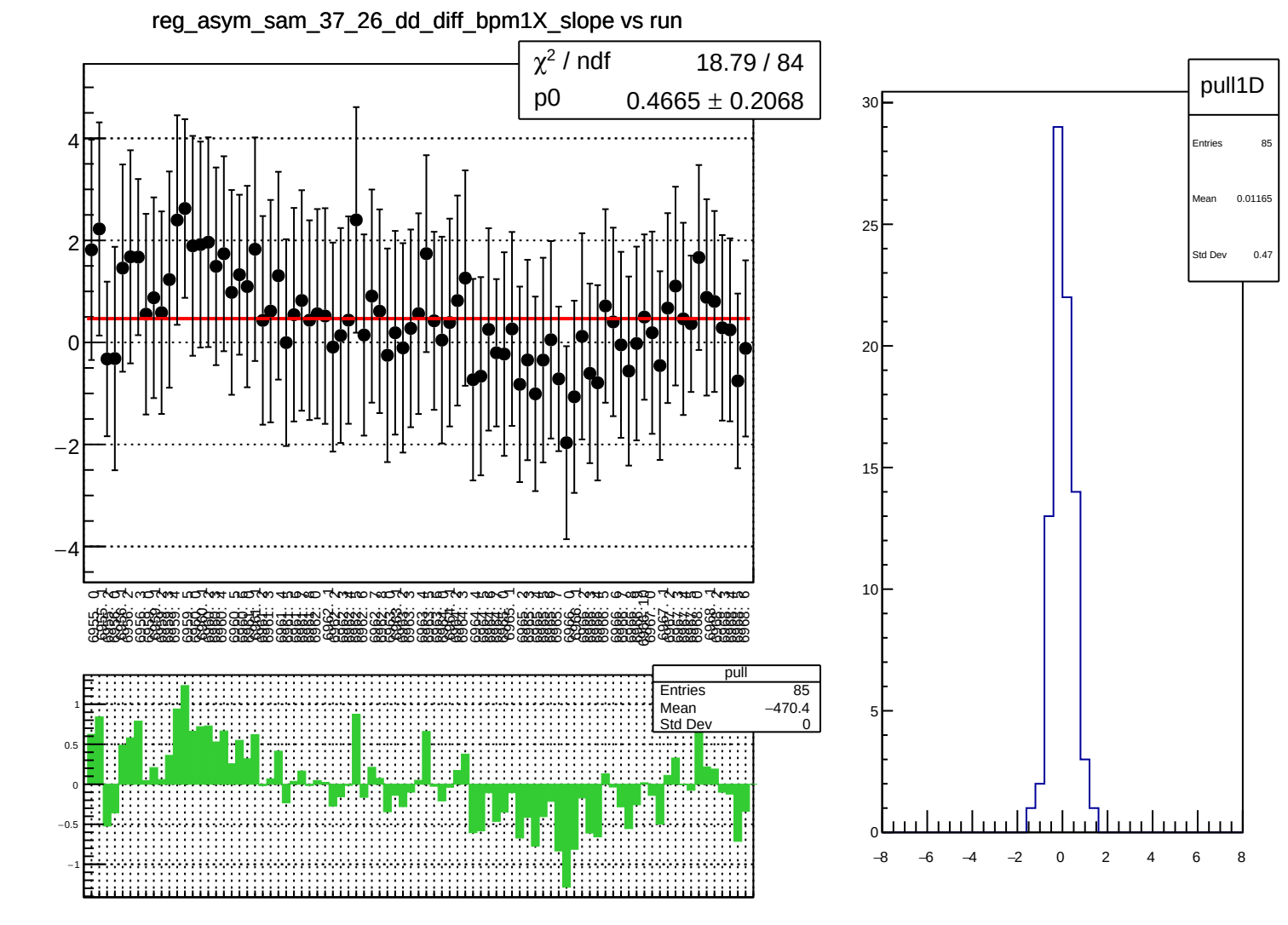

pull1D
Entries 85
Mean 0.04299
Std Dev 0.4484

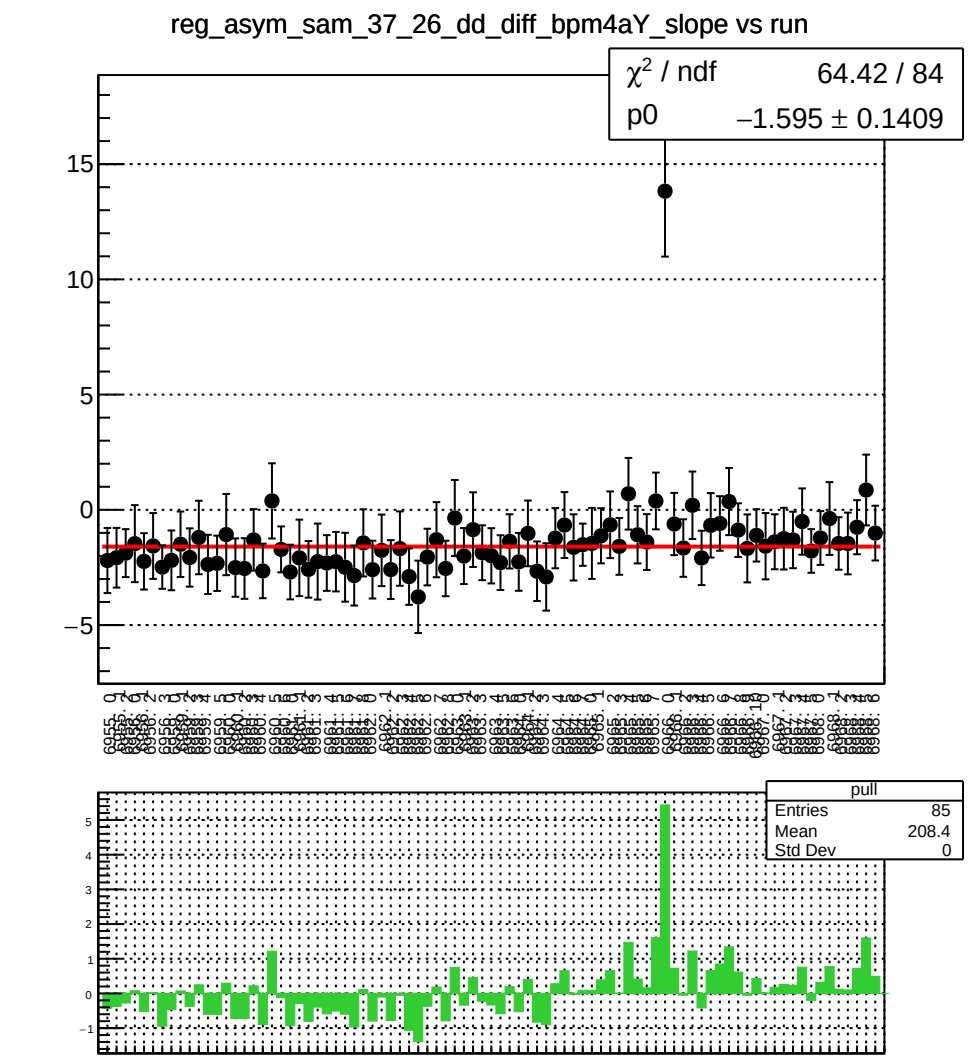

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.7 / 84
p0 28.09 ± 0.5186
pull
Entries 85
Mean 807.2
Std Dev 0

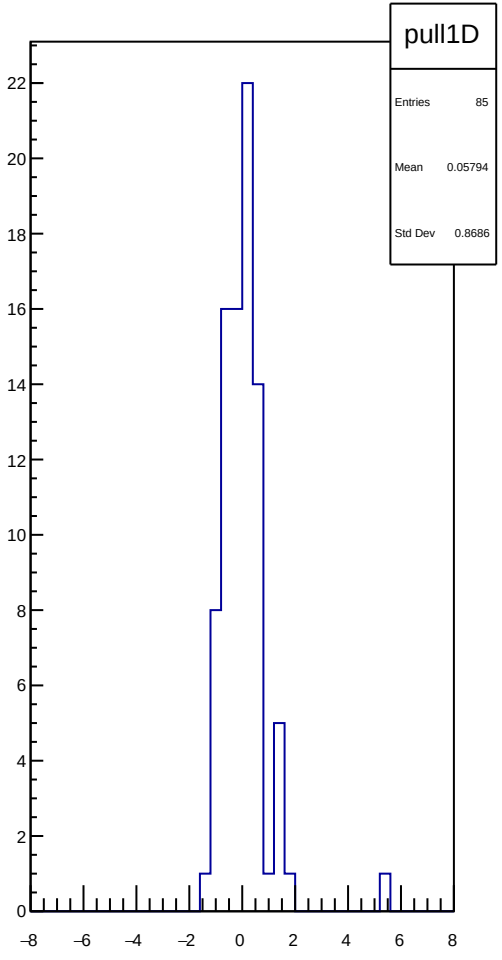

pull1D
Entries 85
Mean 0.004545
Std Dev 0.3547

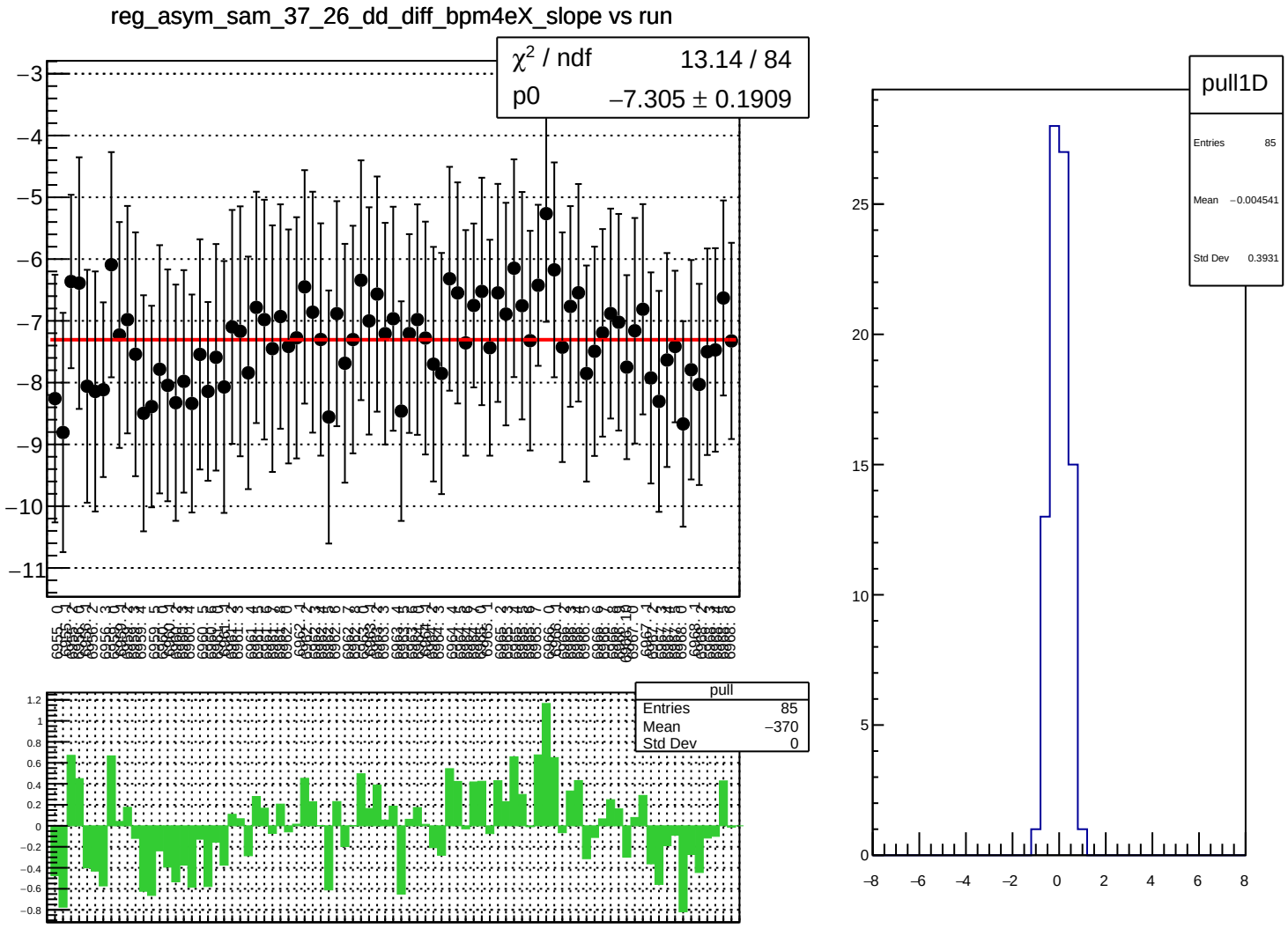

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.28 / 84
p0 45.56 ± 0.4325
pull
Entries 85
Mean 301
Std Dev 0
pull1D
Entries 85
Mean −0.02344
Std Dev 0.4757

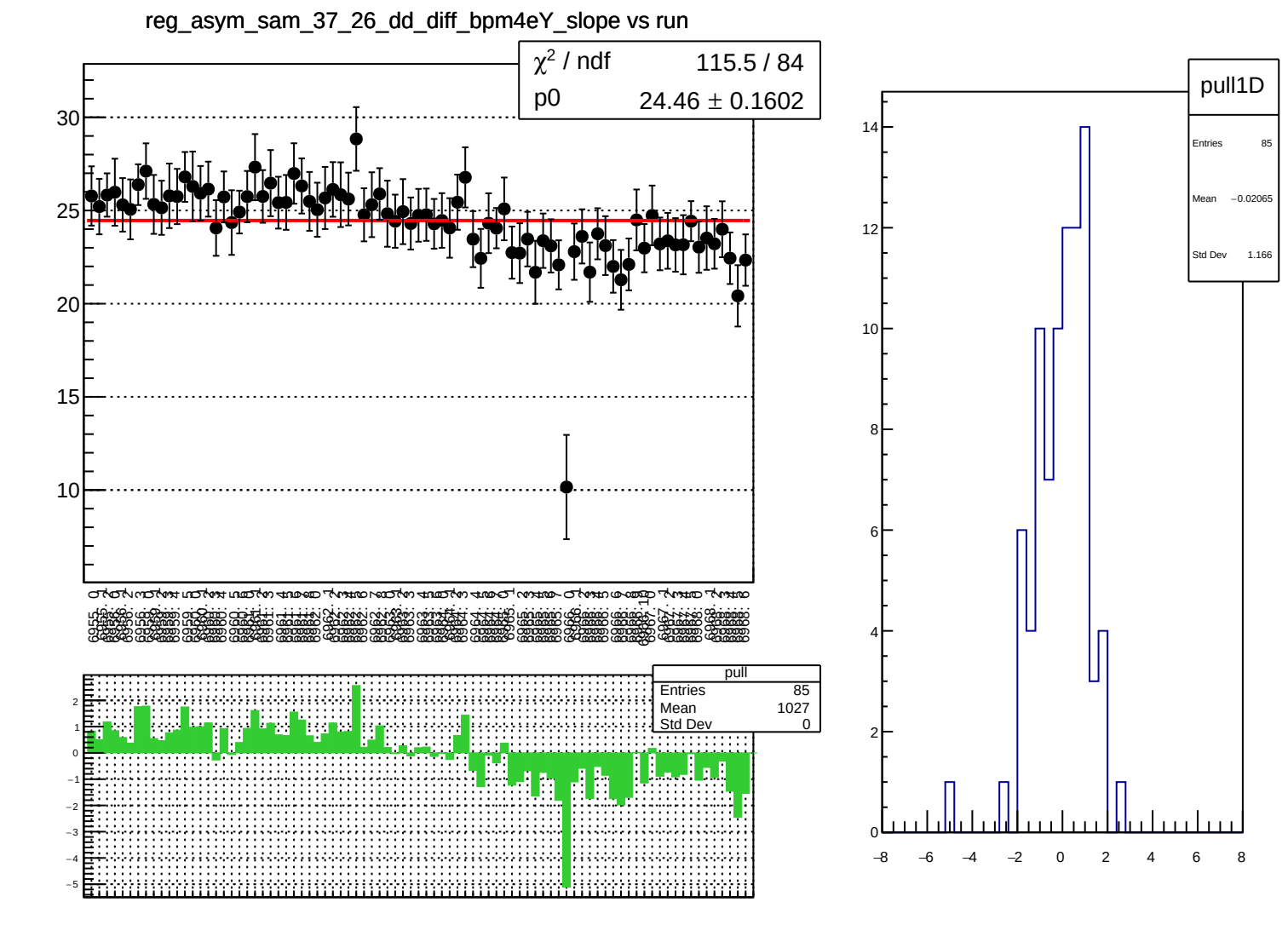

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 15.24 / 84
p0 −0.4282 ± 0.01656
pull
Entries 85
Mean 8644
Std Dev 0
pull1D
Entries 85
Mean −0.0009384
Std Dev 0.4234

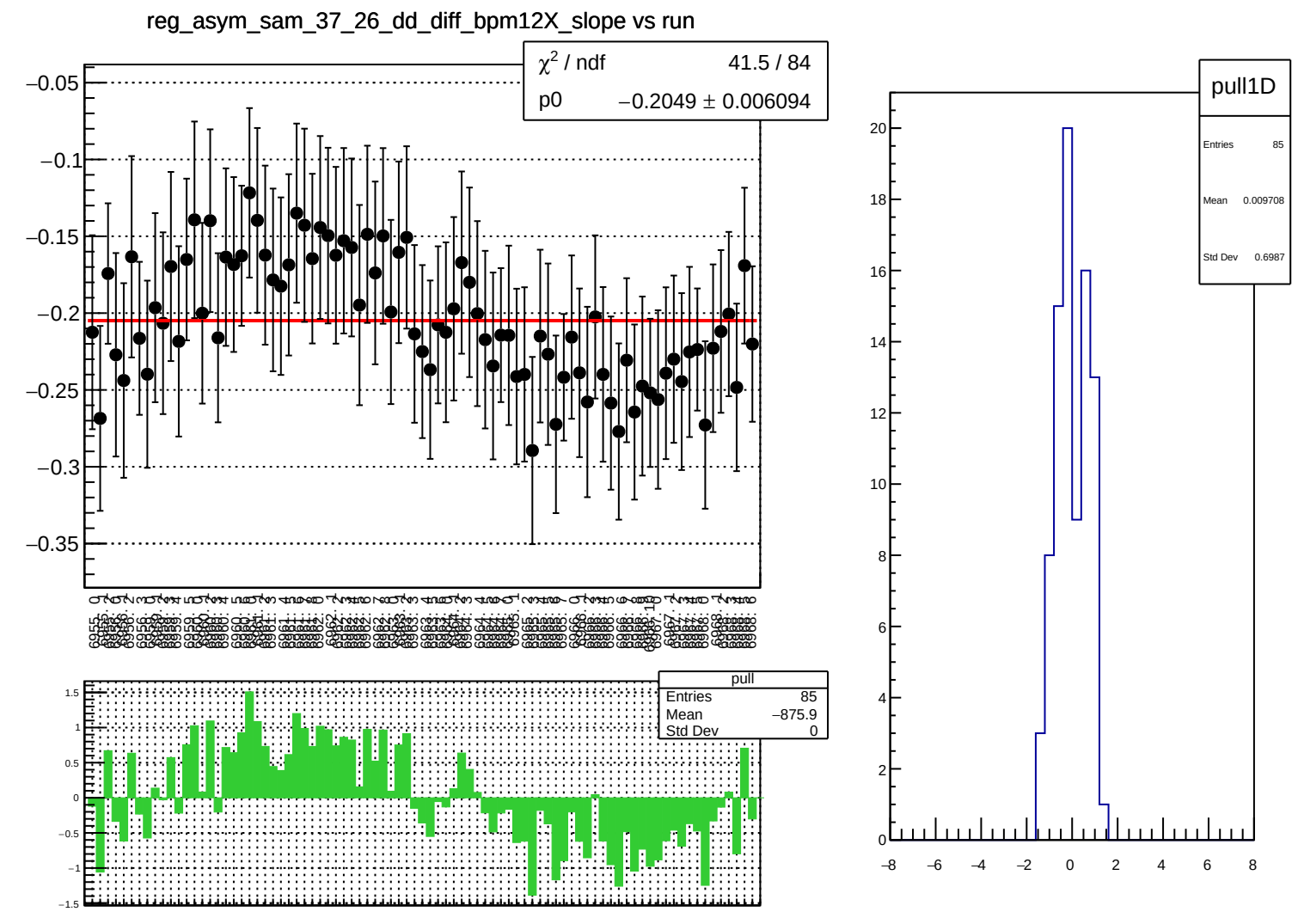

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 18.79 / 84
p0 0.4665 ± 0.2068
pull
Entries 85
Mean −470.4
Std Dev 0
pull1D
Entries 85
Mean 0.01165
Std Dev 0.47

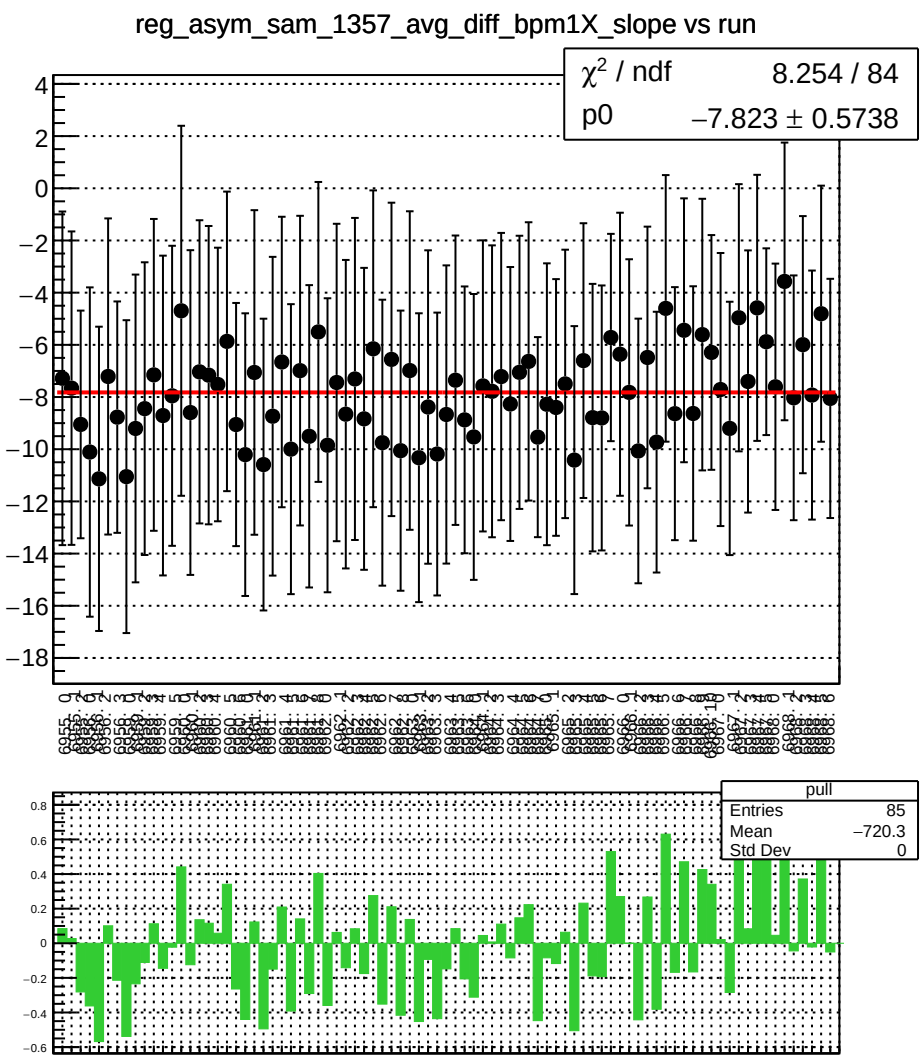

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.42 / 84
p0 −1.595 ± 0.1409
pull
Entries 85
Mean 208.4
Std Dev 0

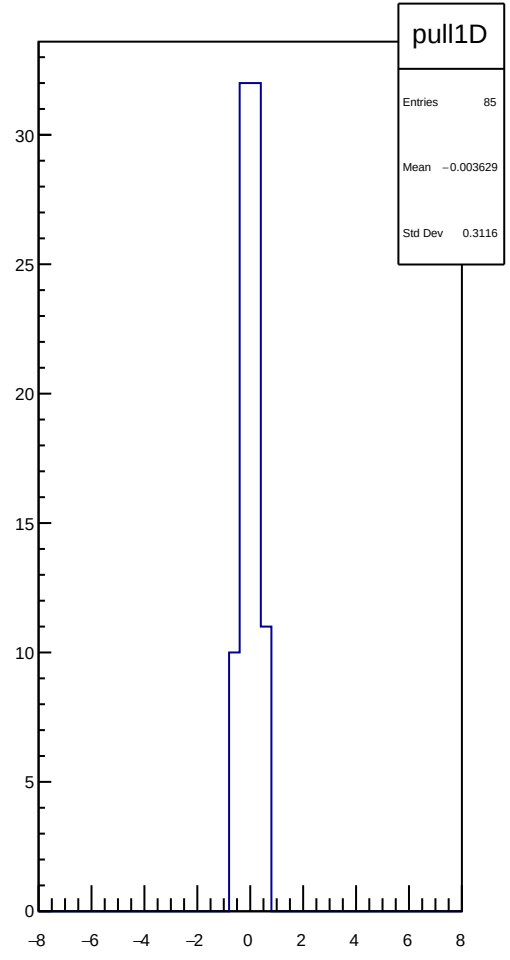

pull1D
Entries 85
Mean 0.05794
Std Dev 0.8686

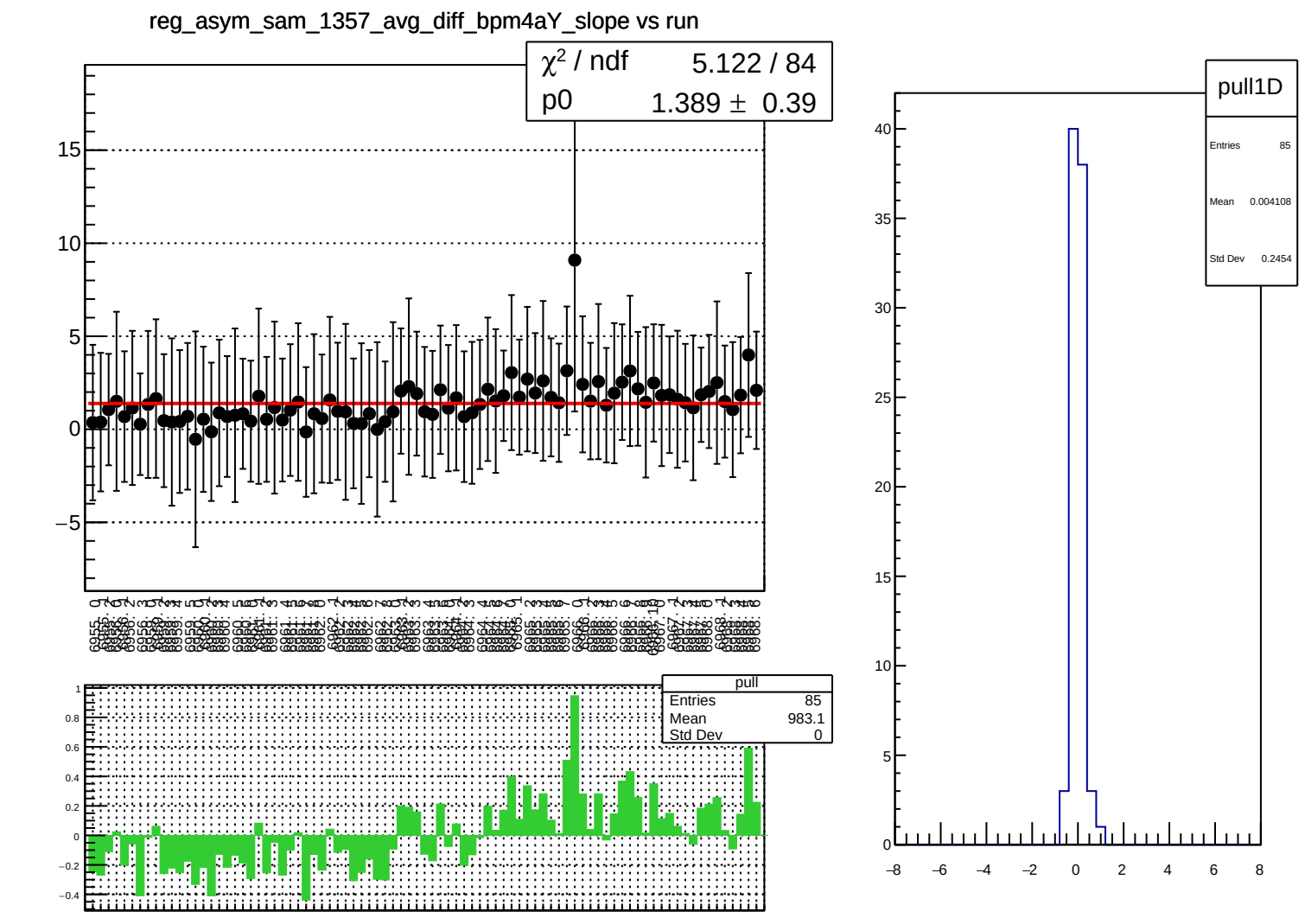

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.14 / 84
p0 −7.305 ± 0.1909
pull
Entries 85
Mean −370
Std Dev 0
pull1D
Entries 85
Mean −0.004541
Std Dev 0.3931

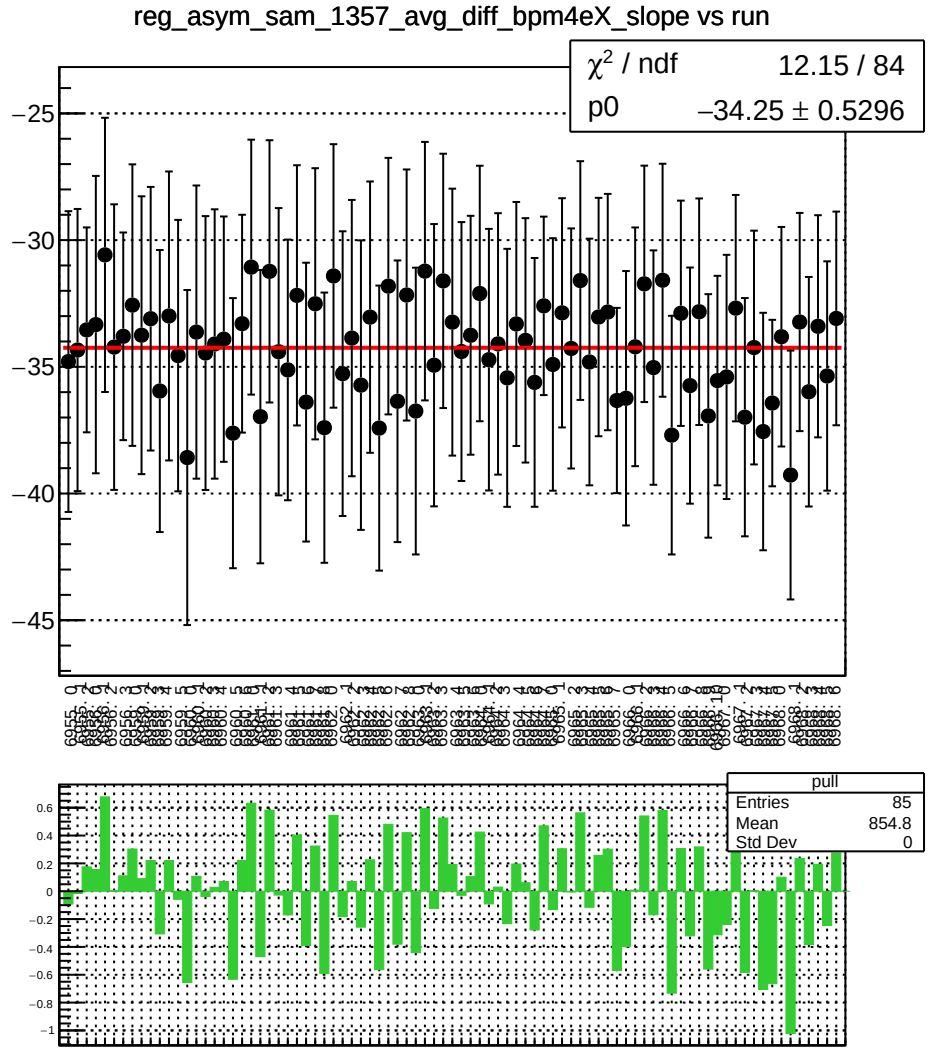

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 115.5 / 84
p0 24.46 ± 0.1602
pull
Entries 85
Mean 1027
Std Dev 0
pull1D
Entries 85
Mean −0.02065
Std Dev 1.166

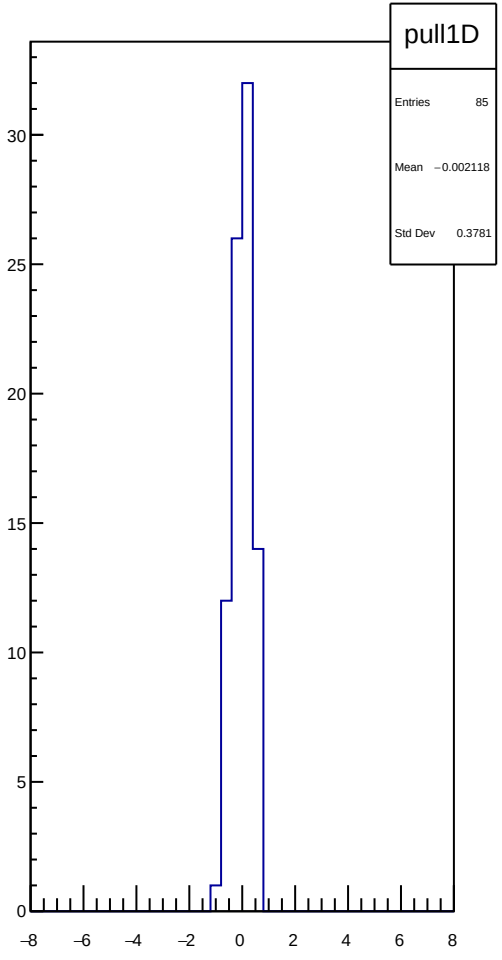

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 41.5 / 84
p0 −0.2049 ± 0.006094
pull
Entries 85
Mean −875.9
Std Dev 0
pull1D
Entries 85
Mean 0.009708
Std Dev 0.6987

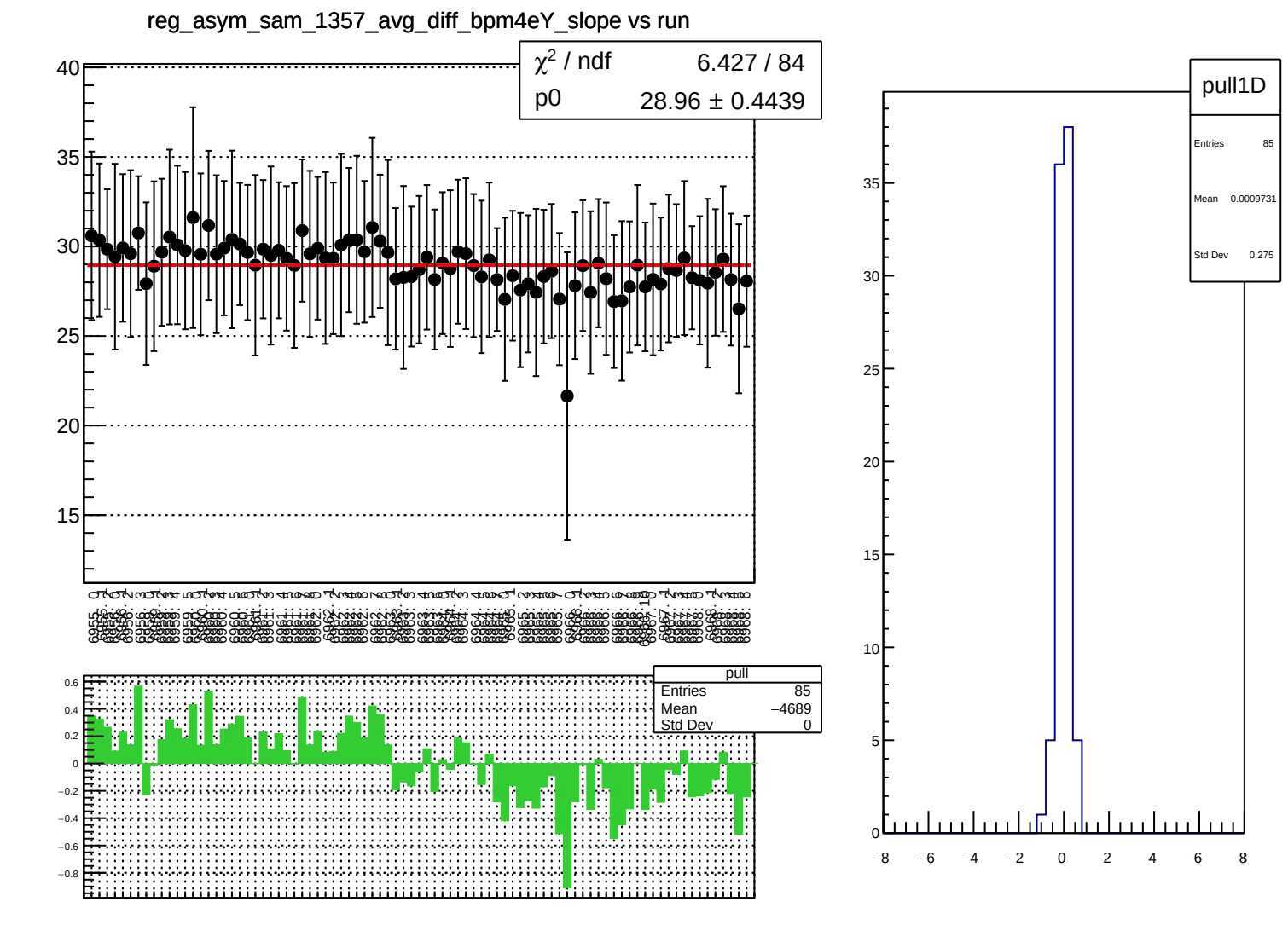

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 8.254 / 84
p0 −7.823 ± 0.5738
pull
Entries 85
Mean −720.3
Std Dev 0

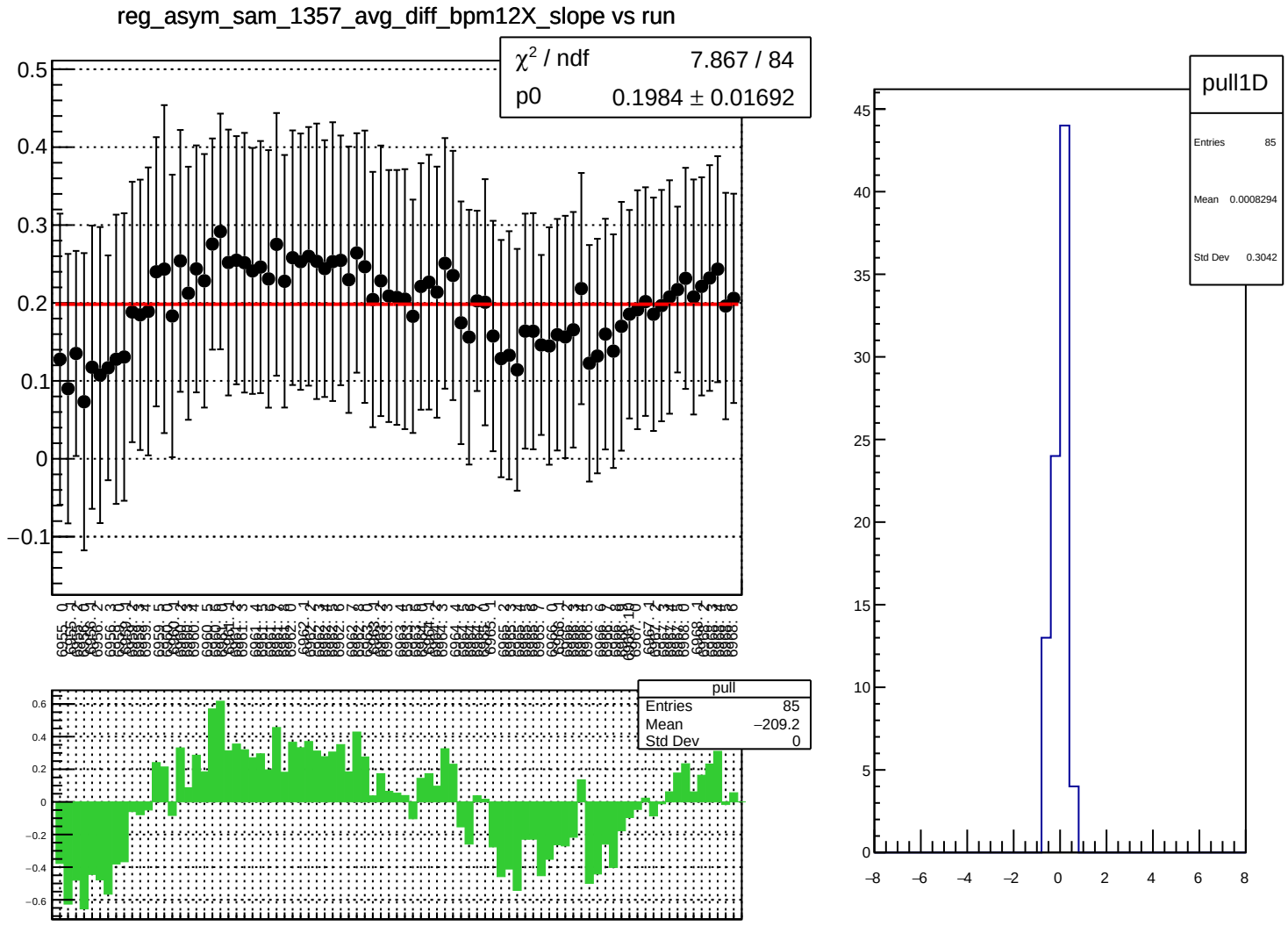

pull1D
Entries 85
Mean −0.003629
Std Dev 0.3116

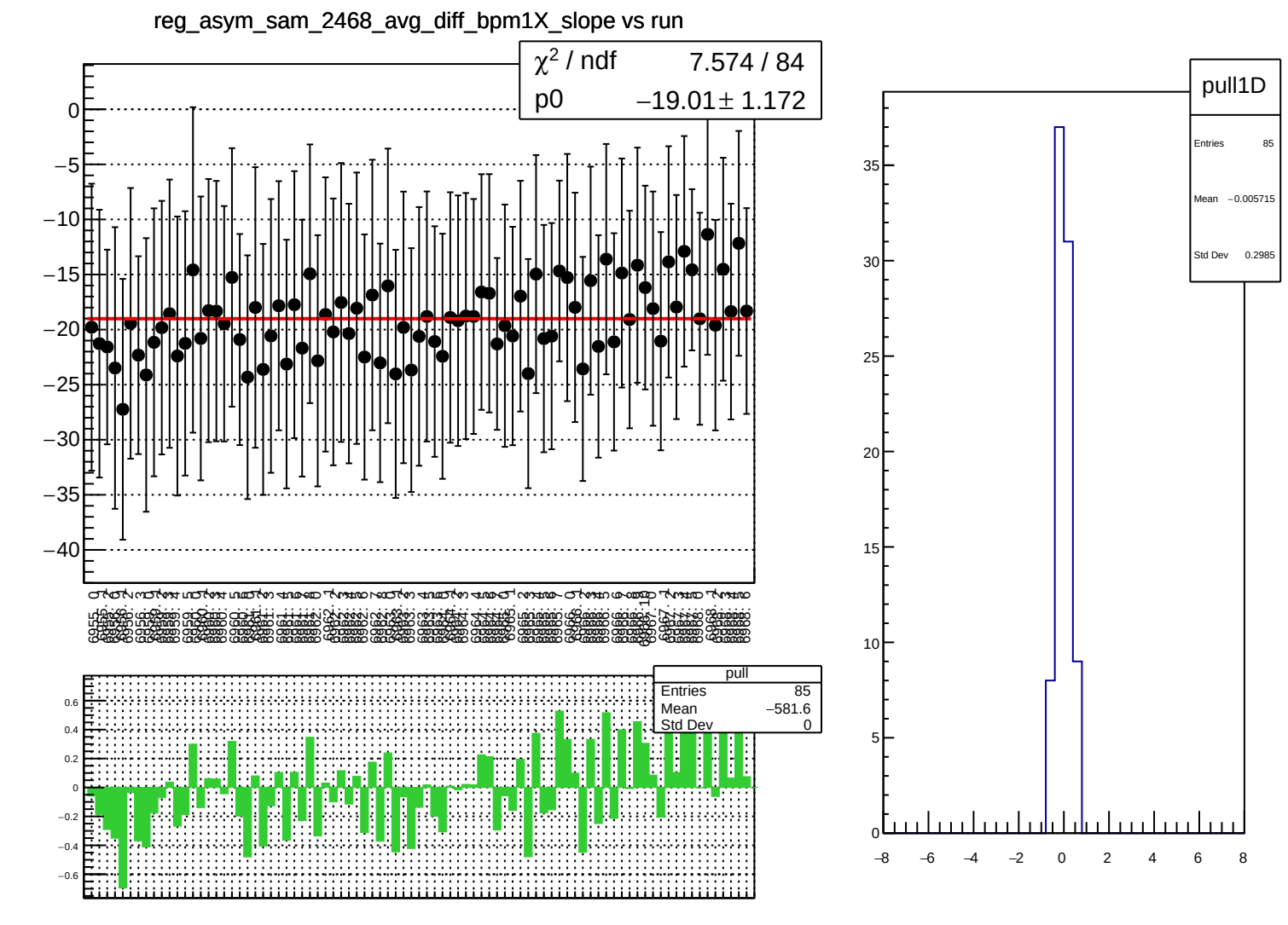

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.122 / 84
p0 1.389 ± 0.39
pull
Entries 85
Mean 983.1
Std Dev 0
pull1D
Entries 85
Mean 0.004108
Std Dev 0.2454

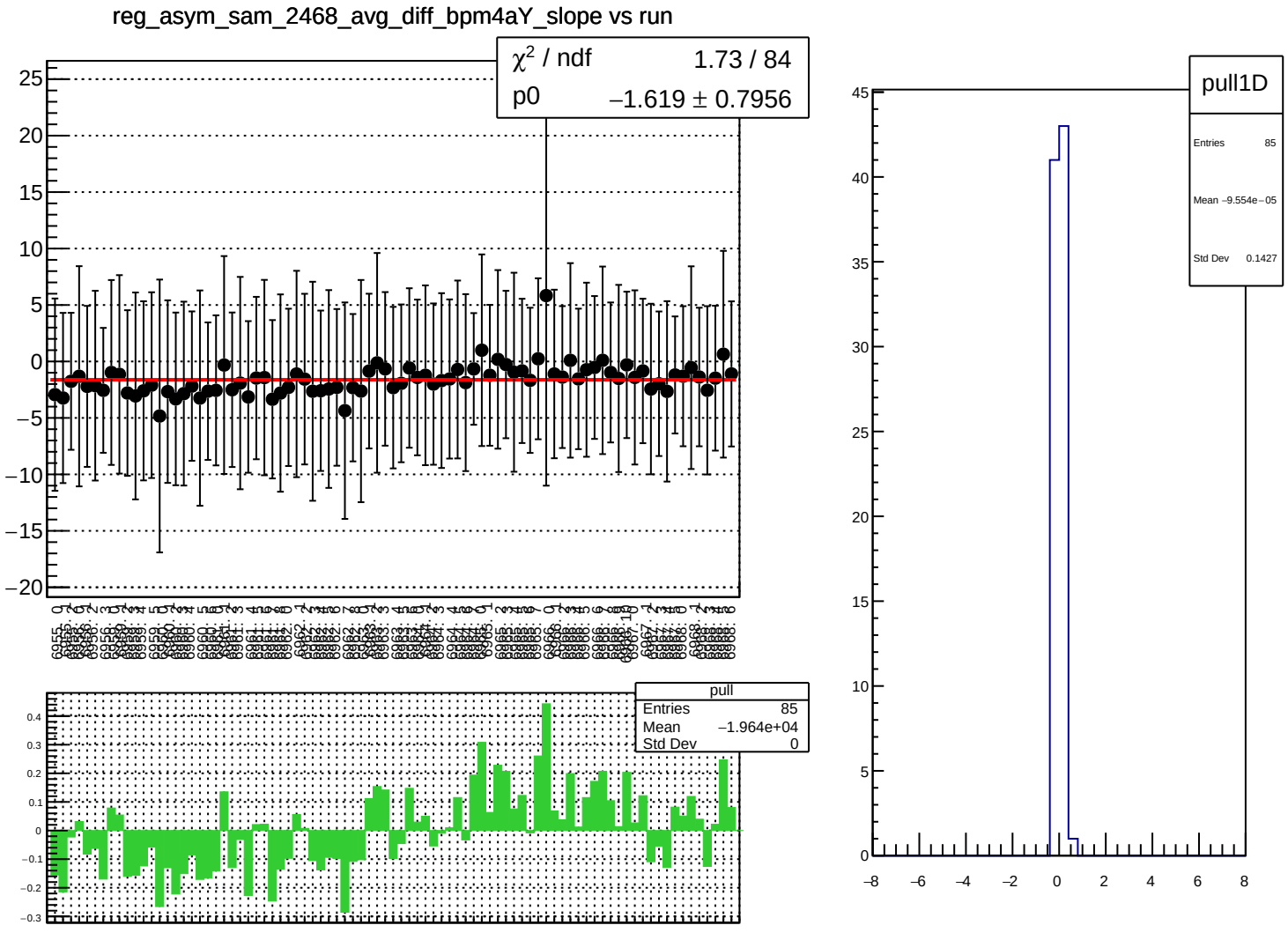

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.15 / 84
p0 −34.25 ± 0.5296
pull
Entries 85
Mean 854.8
Std Dev 0

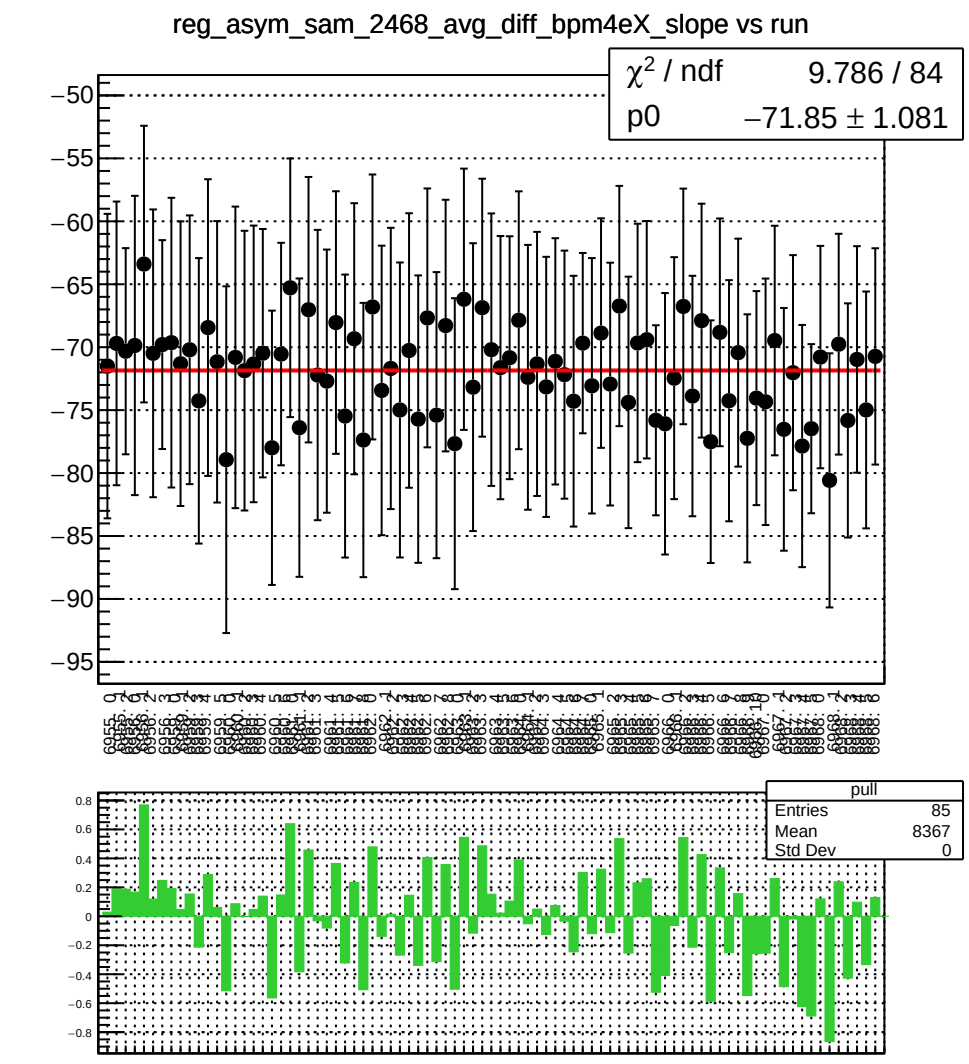

pull1D
Entries 85
Mean −0.002118
Std Dev 0.3781

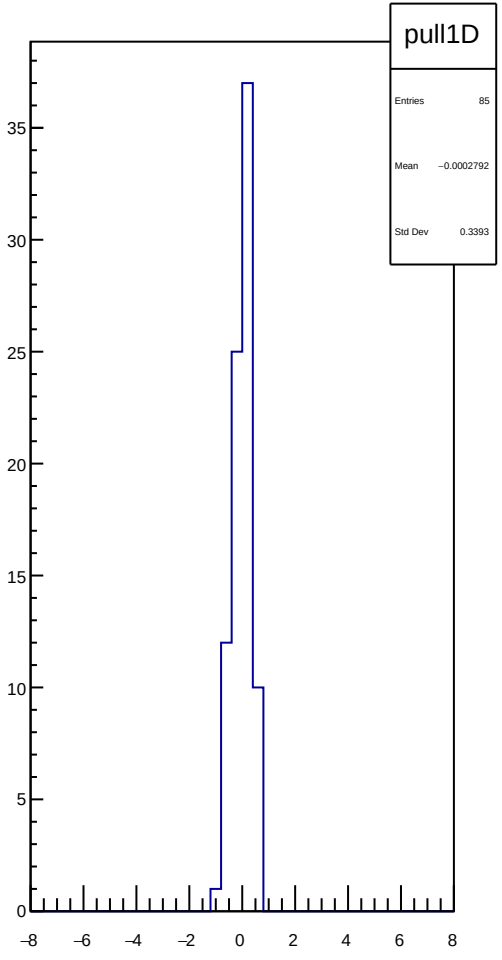

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.427 / 84
p0 28.96 ± 0.4439
pull
Entries 85
Mean −4689
Std Dev 0
pull1D
Entries 85
Mean 0.0009731
Std Dev 0.275

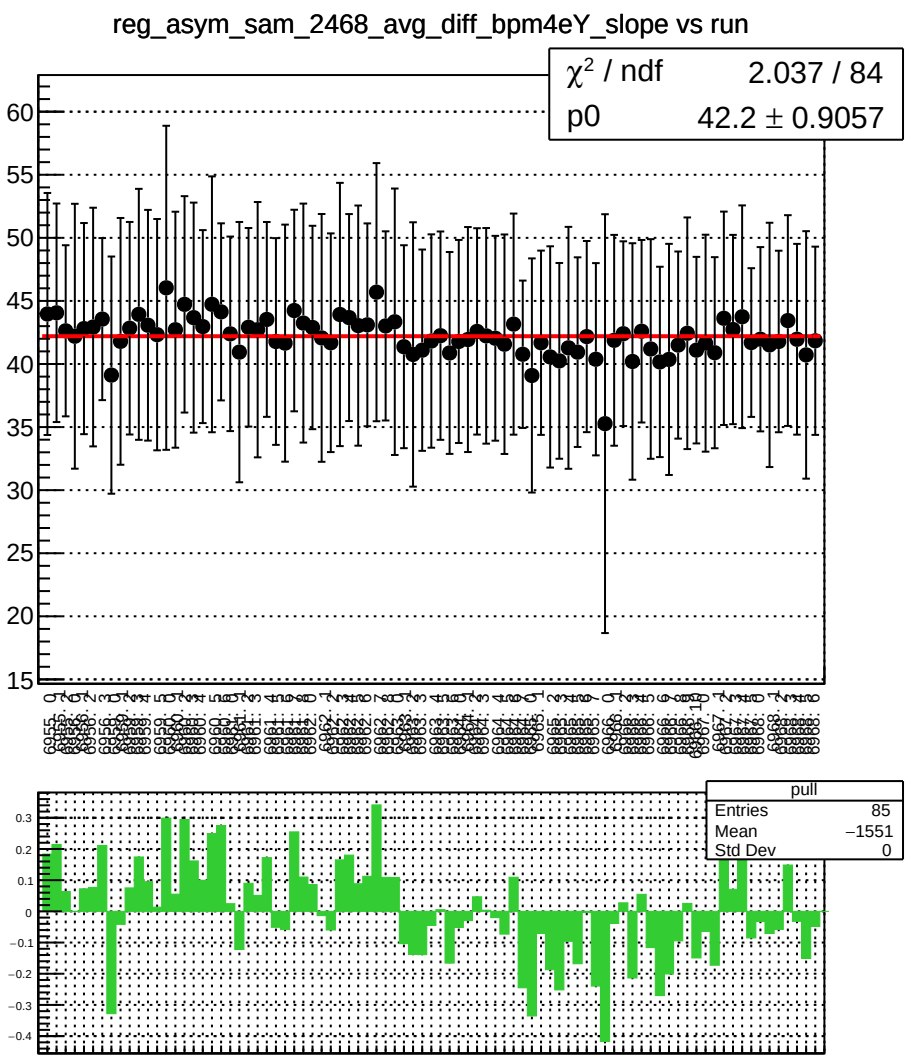

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 7.867 / 84
p0 0.1984 ± 0.01692
pull
Entries 85
Mean −209.2
Std Dev 0
pull1D
Entries 85
Mean 0.0008294
Std Dev 0.3042

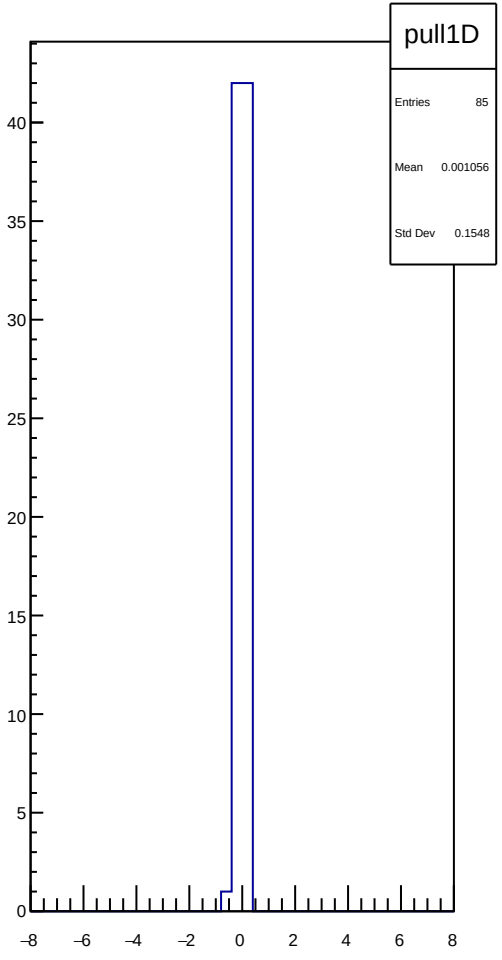

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 7.574 / 84
p0 −19.01 ± 1.172
pull
Entries 85
Mean −581.6
Std Dev 0
pull1D
Entries 85
Mean −0.005715
Std Dev 0.2985

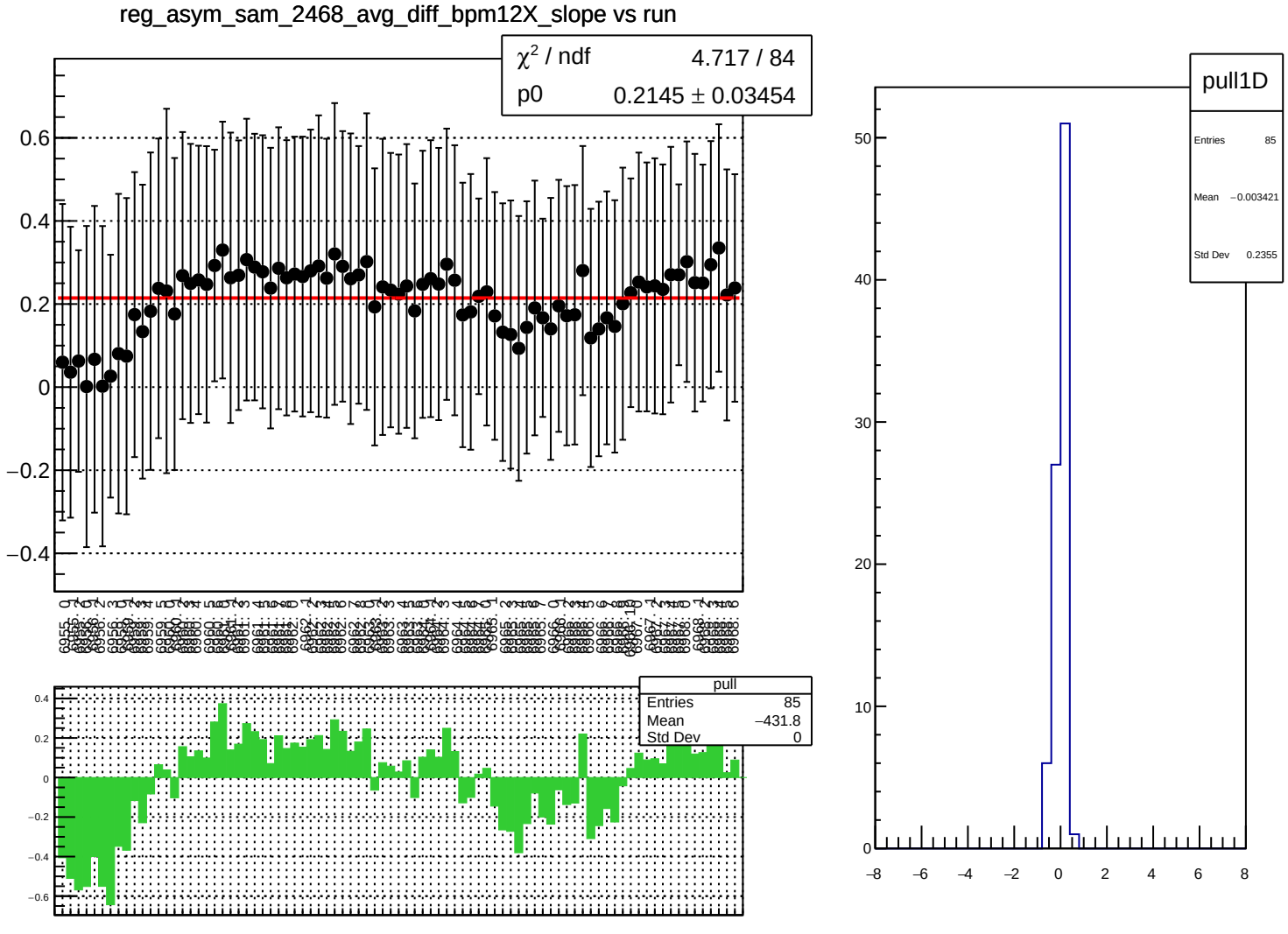

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.73 / 84
p0 −1.619 ± 0.7956
pull
Entries 85
Mean −1.964e+04
Std Dev 0
pull1D
Entries 85
Mean −9.554e−05
Std Dev 0.1427

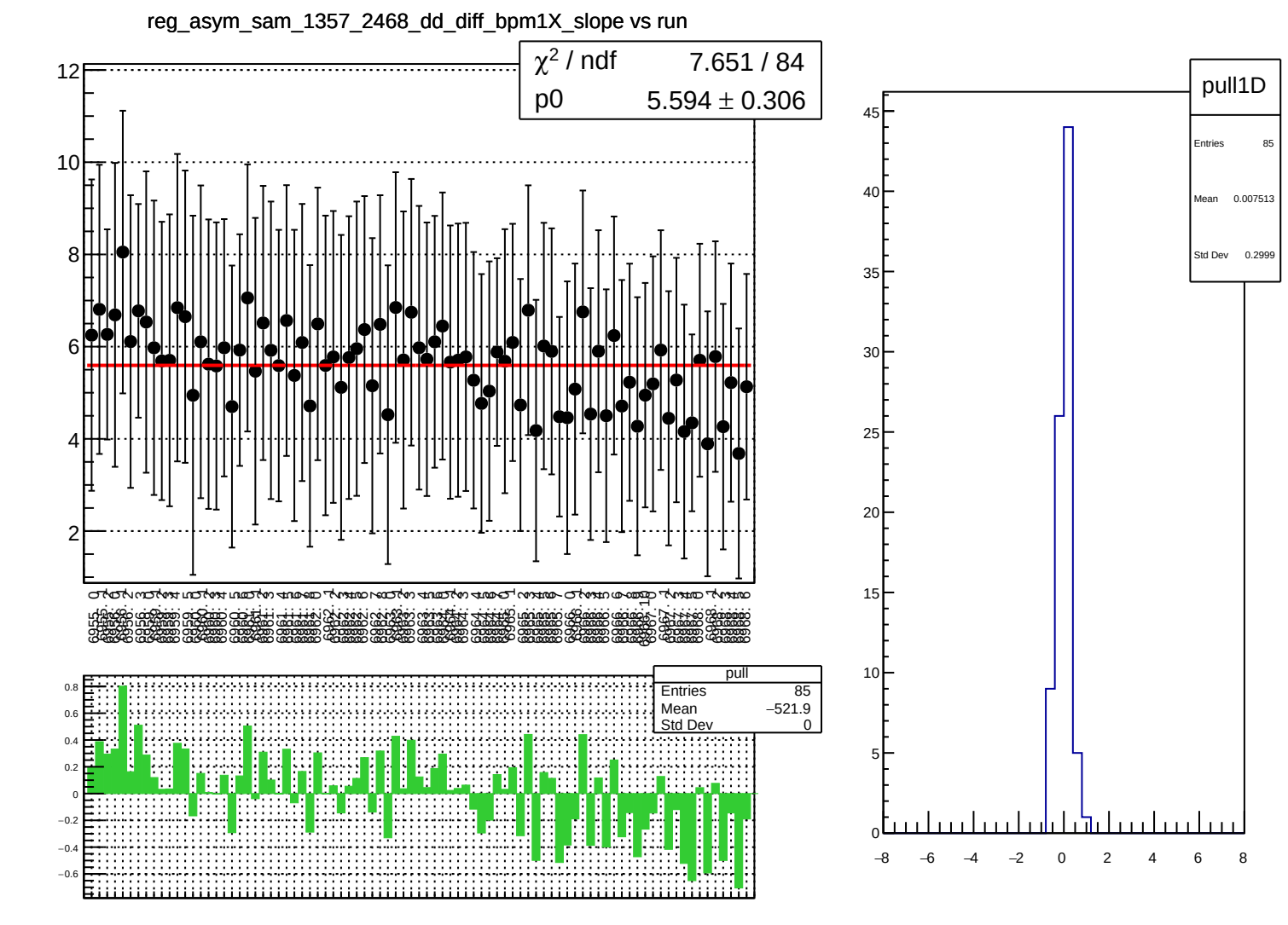

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.786 / 84
p0 −71.85 ± 1.081
pull
Entries 85
Mean 8367
Std Dev 0

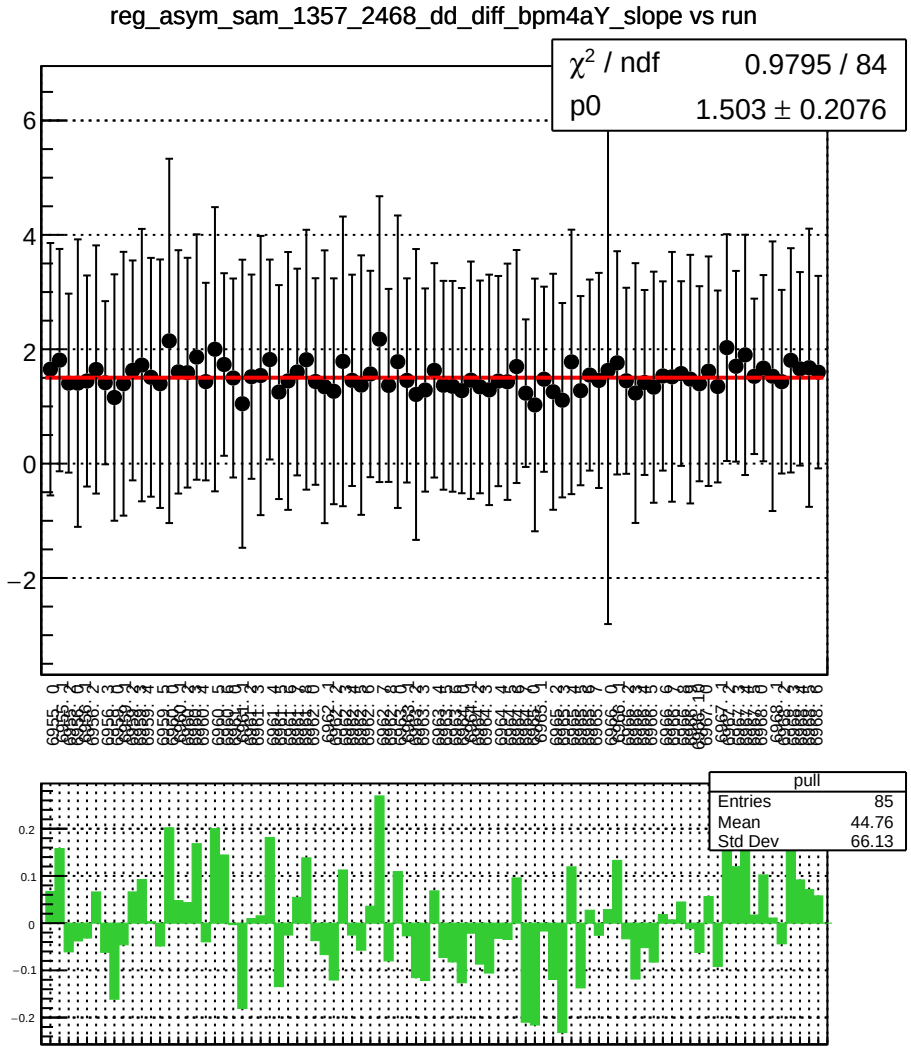

pull1D
Entries 85
Mean −0.0002792
Std Dev 0.3393

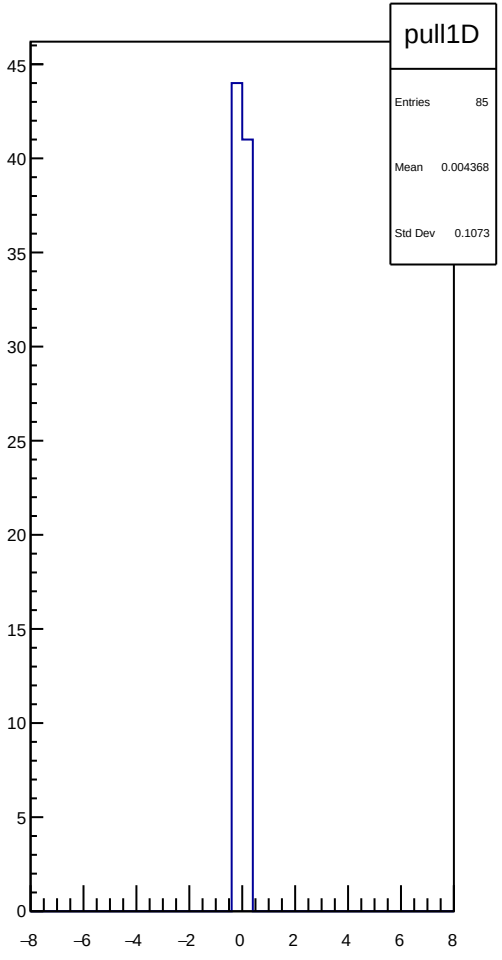

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.037 / 84
p0 42.2 ± 0.9057
pull
Entries 85
Mean −1551
Std Dev 0

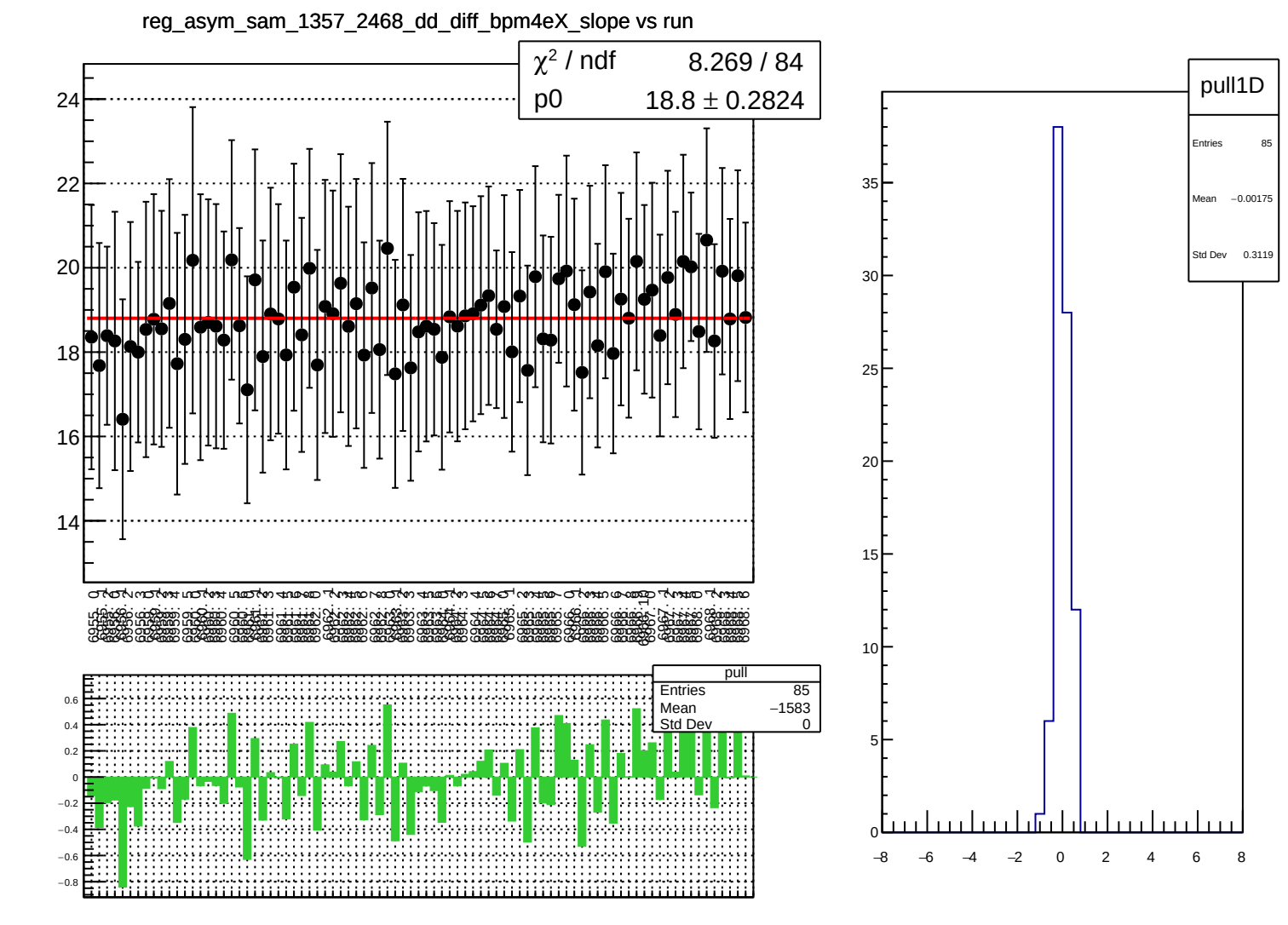

pull1D
Entries 85
Mean 0.001056
Std Dev 0.1548

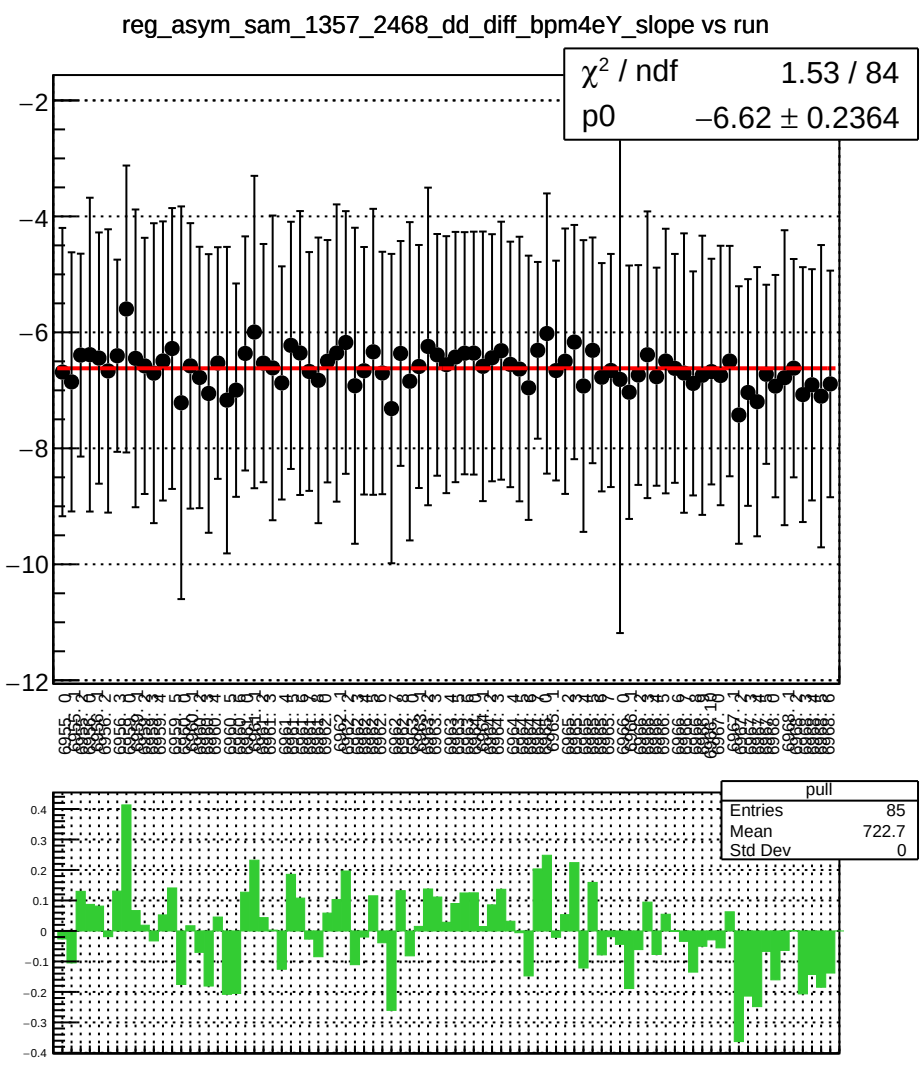

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 4.717 / 84
p0 0.2145 ± 0.03454
pull
Entries 85
Mean −431.8
Std Dev 0
pull1D
Entries 85
Mean −0.003421
Std Dev 0.2355

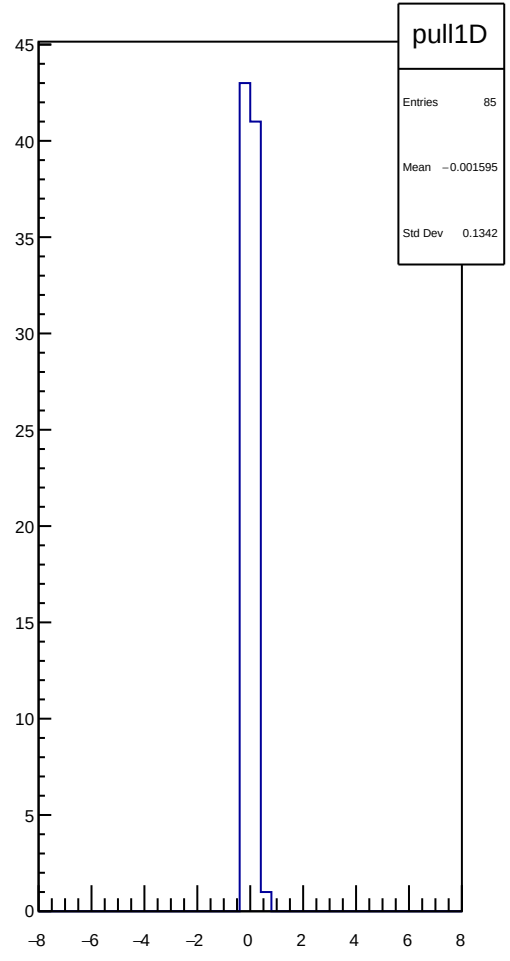

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 7.651 / 84
p0 5.594 ± 0.306
pull
Entries 85
Mean −521.9
Std Dev 0
pull1D
Entries 85
Mean 0.007513
Std Dev 0.2999

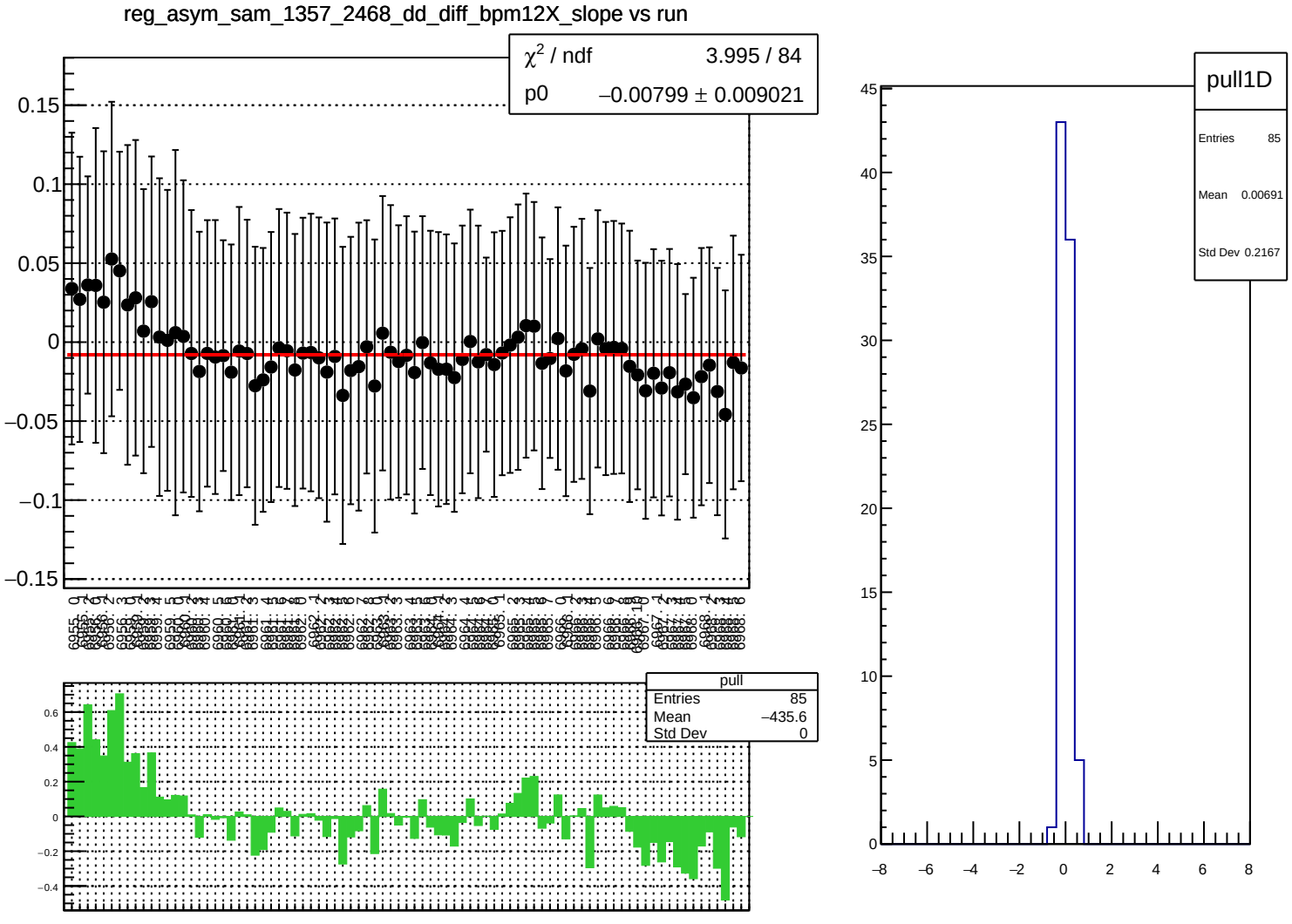

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9795 / 84
p0 1.503 ± 0.2076
pull
Entries 85
Mean 44.76
Std Dev 66.13

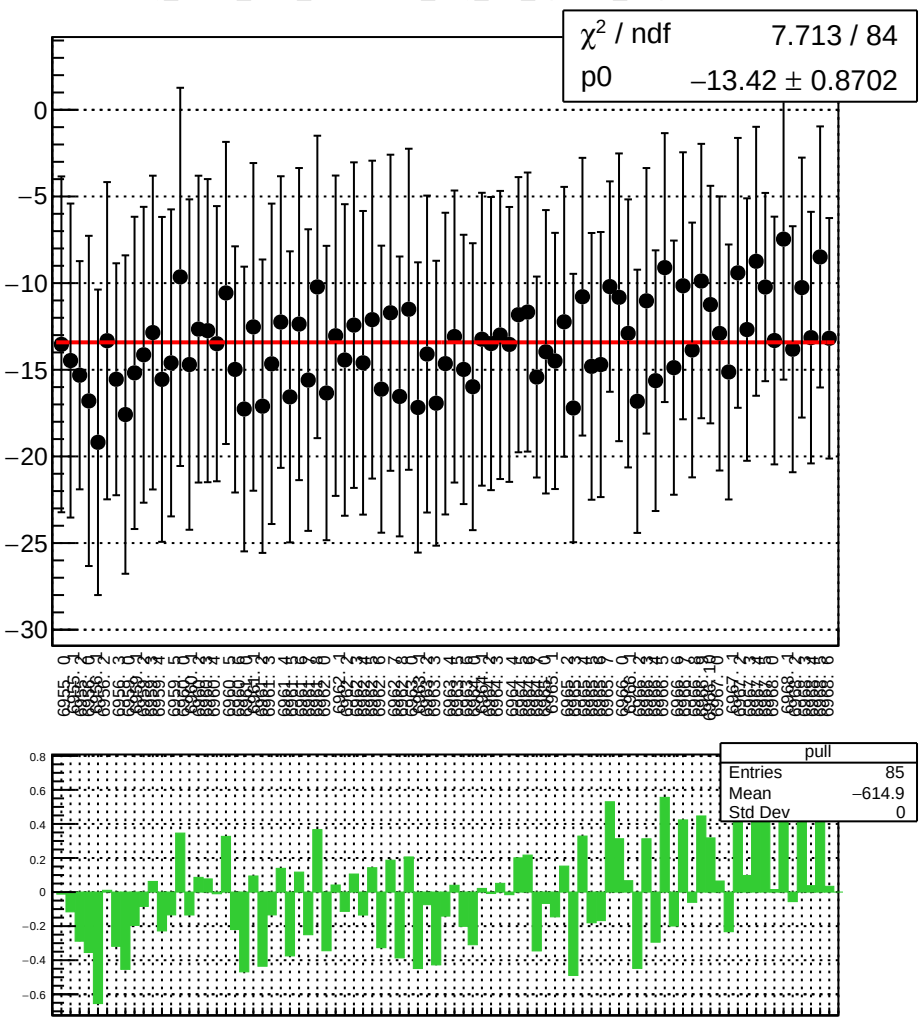

pull1D
Entries 85
Mean 0.004368
Std Dev 0.1073

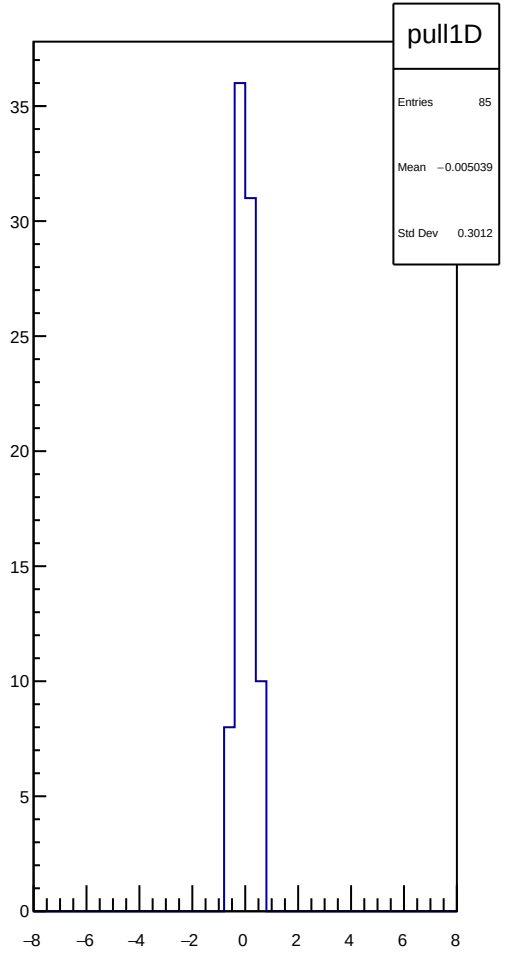

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.269 / 84
p0 18.8 ± 0.2824
pull
Entries 85
Mean −1583
Std Dev 0
pull1D
Entries 85
Mean −0.00175
Std Dev 0.3119

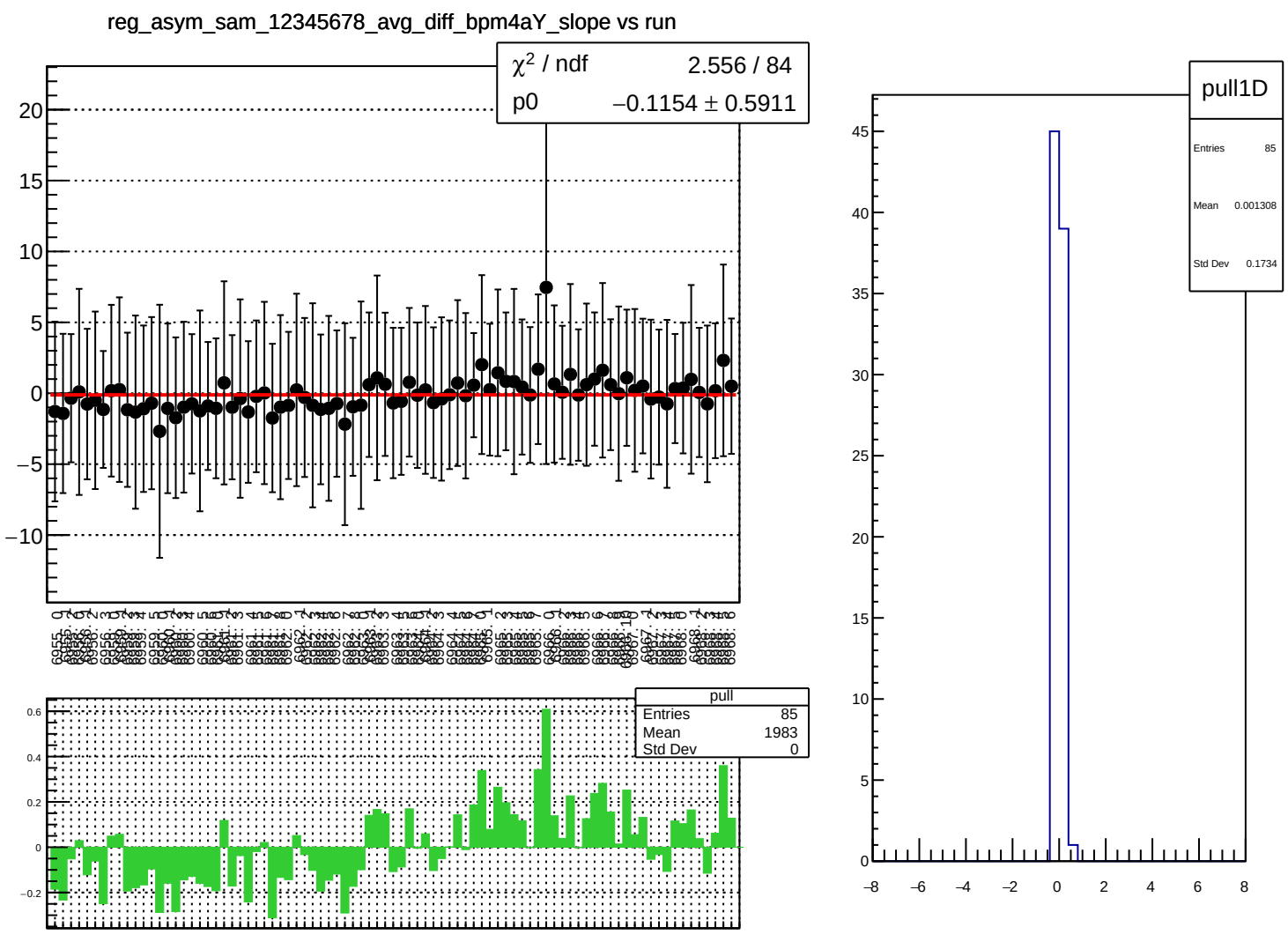

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.53 / 84
p0 −6.62 ± 0.2364
pull
Entries 85
Mean 722.7
Std Dev 0

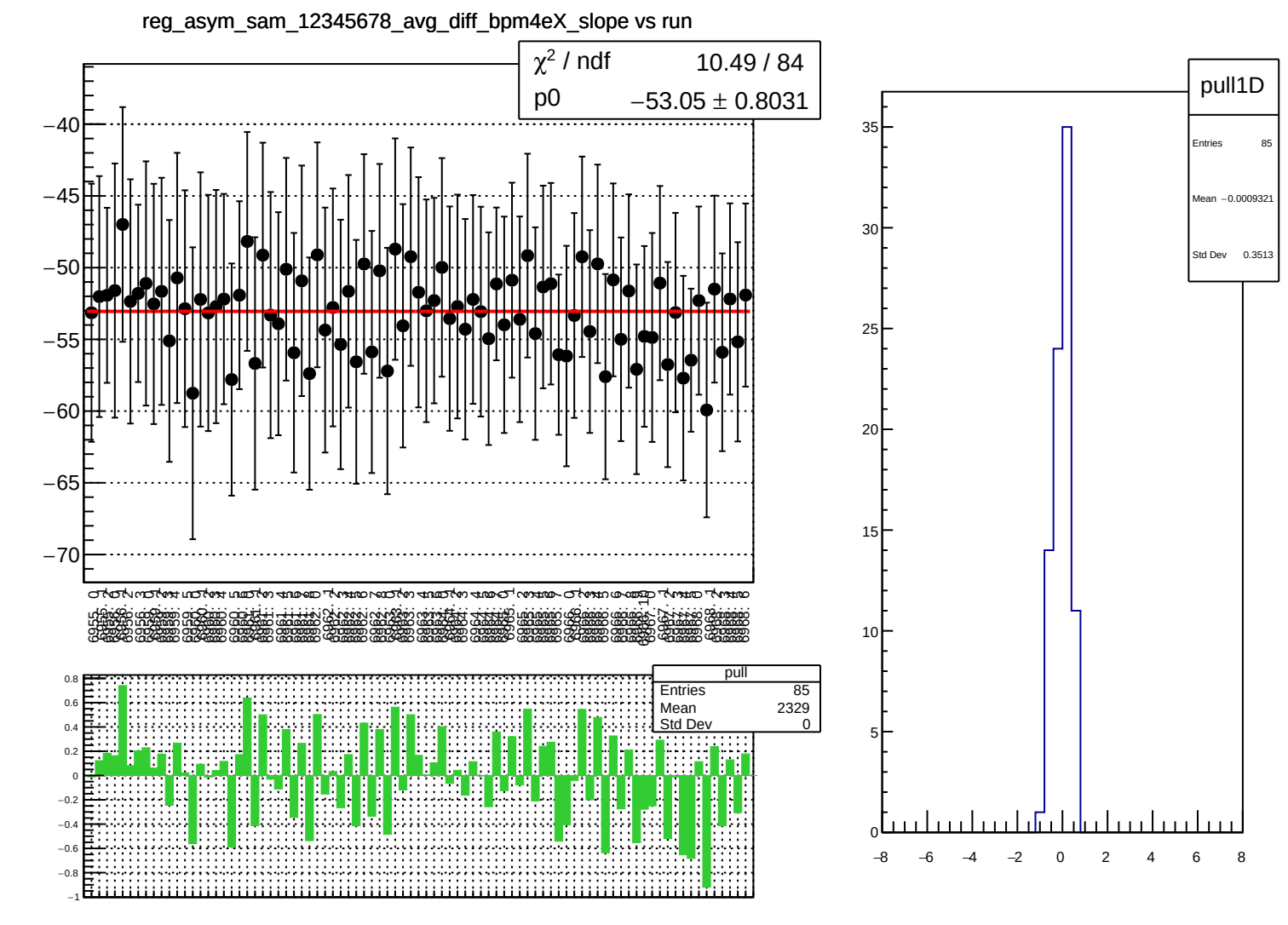

pull1D
Entries 85
Mean −0.001595
Std Dev 0.1342

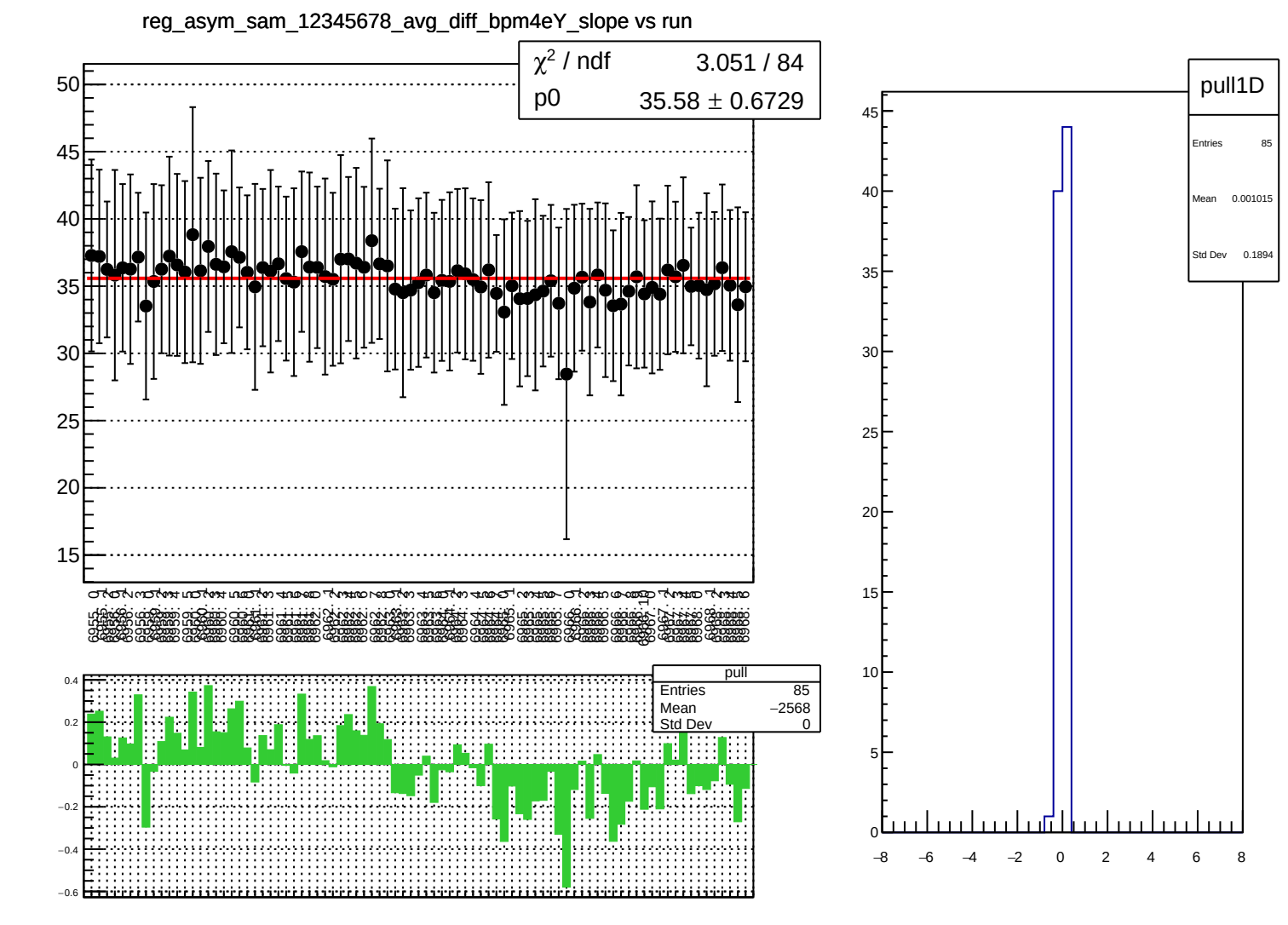

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 3.995 / 84
p0 −0.00799 ± 0.009021
pull
Entries 85
Mean −435.6
Std Dev 0
pull1D
Entries 85
Mean 0.00691
Std Dev 0.2167

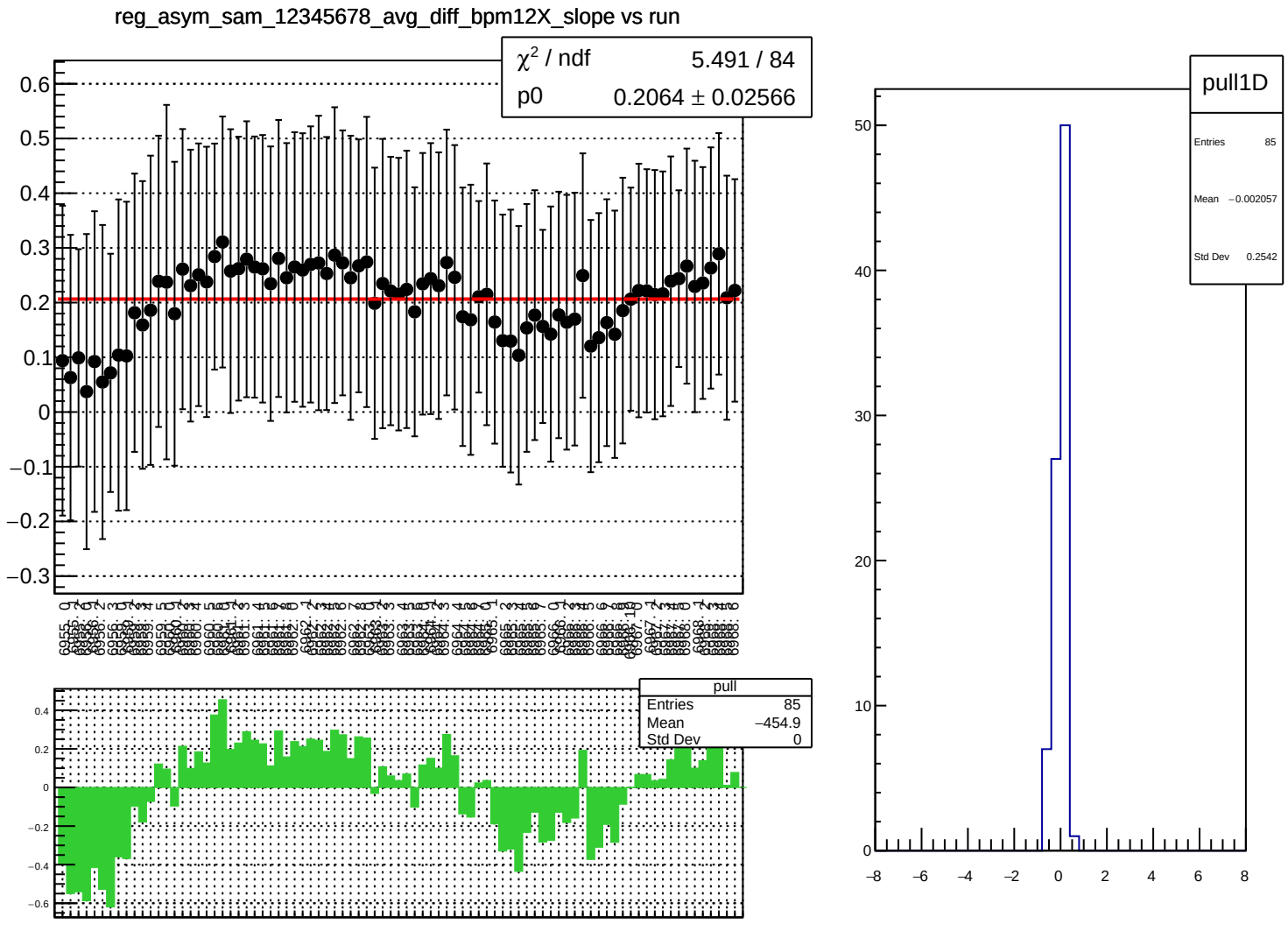

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 7.713 / 84
p0 −13.42 ± 0.8702
pull
Entries 85
Mean −614.9
Std Dev 0

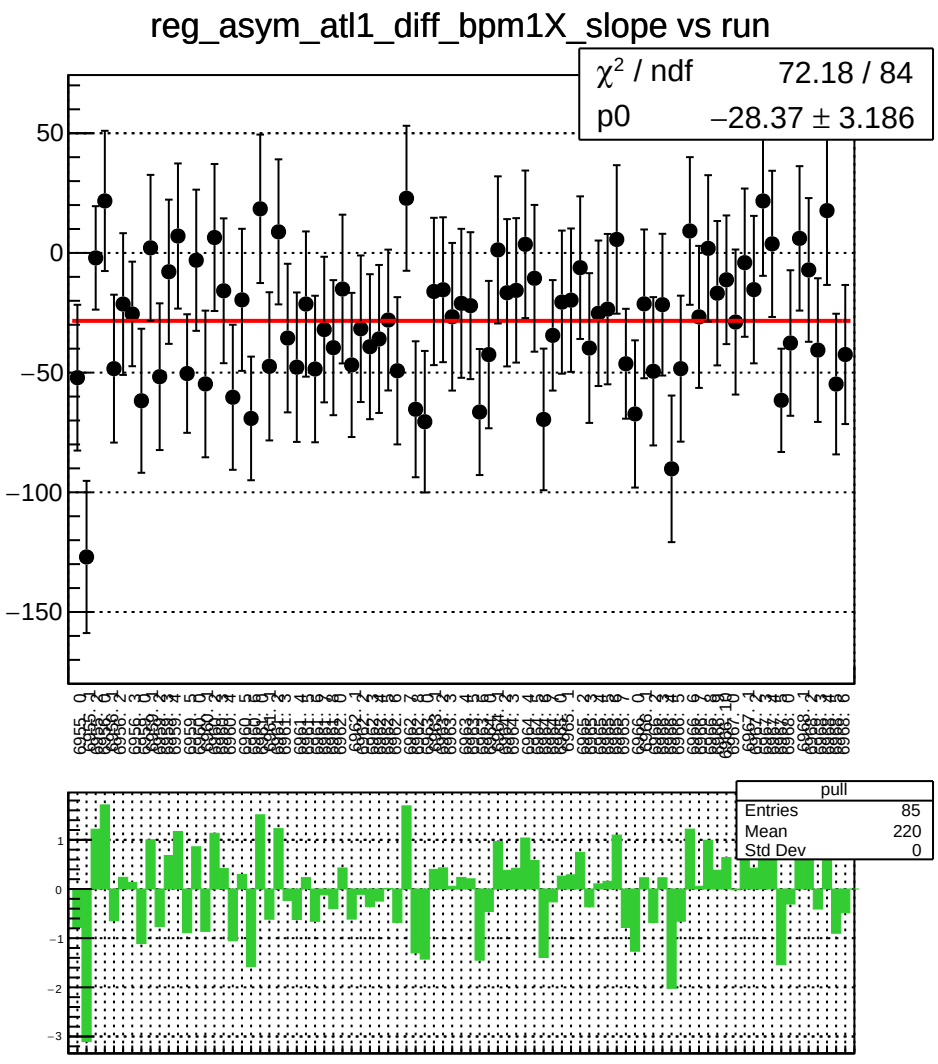

pull1D
Entries 85
Mean −0.005039
Std Dev 0.3012

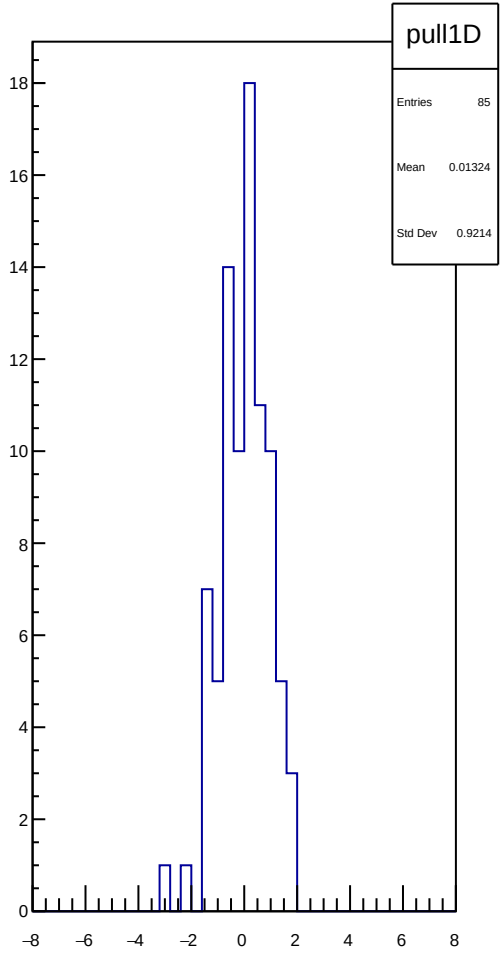

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.556 / 84
p0 −0.1154 ± 0.5911
pull
Entries 85
Mean 1983
Std Dev 0
pull1D
Entries 85
Mean 0.001308
Std Dev 0.1734

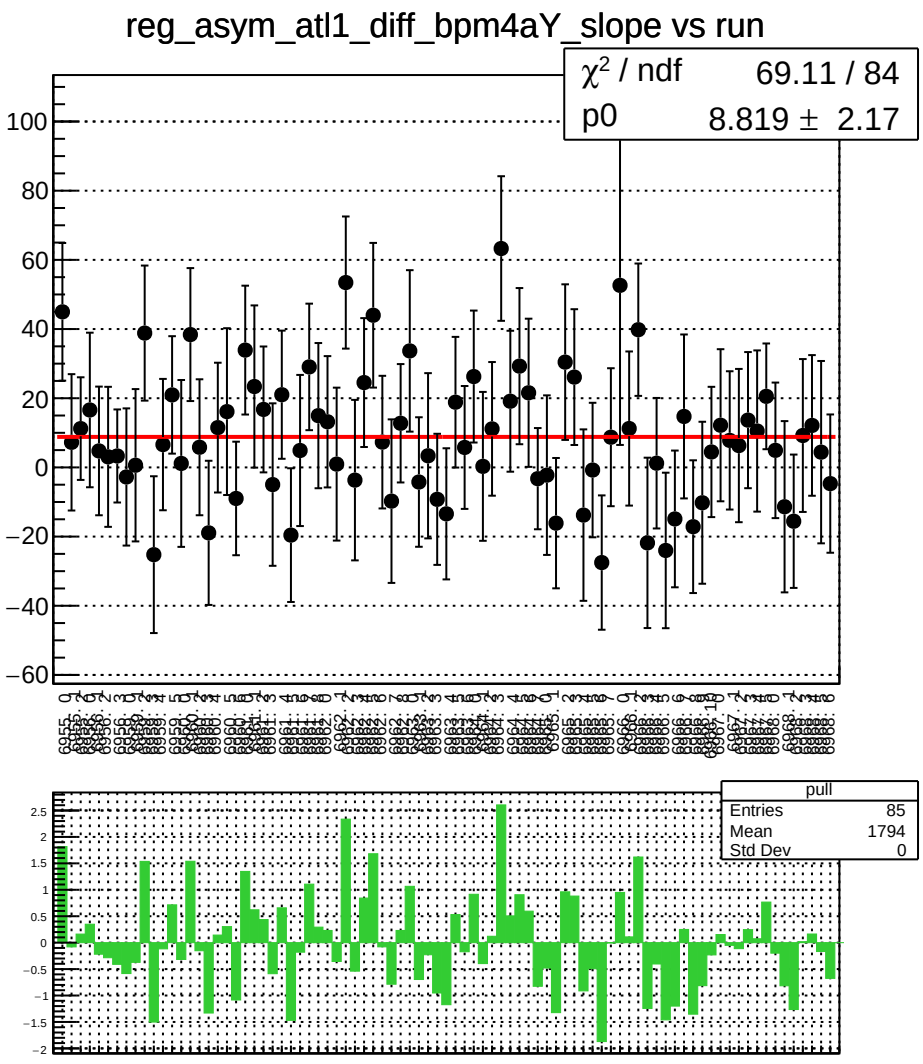

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.49 / 84
p0 −53.05 ± 0.8031
pull
Entries 85
Mean 2329
Std Dev 0
pull1D
Entries 85
Mean −0.0009321
Std Dev 0.3513

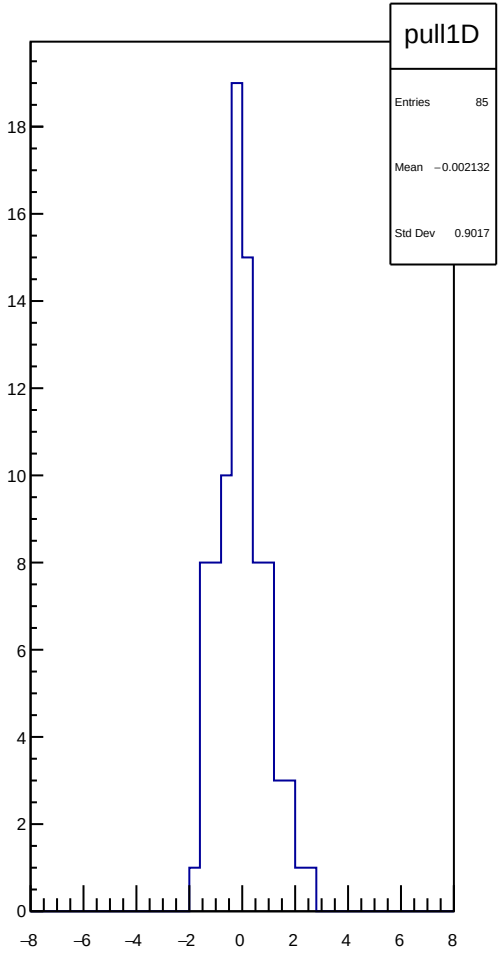

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.051 / 84
p0 35.58 ± 0.6729
pull
Entries 85
Mean −2568
Std Dev 0
pull1D
Entries 85
Mean 0.001015
Std Dev 0.1894

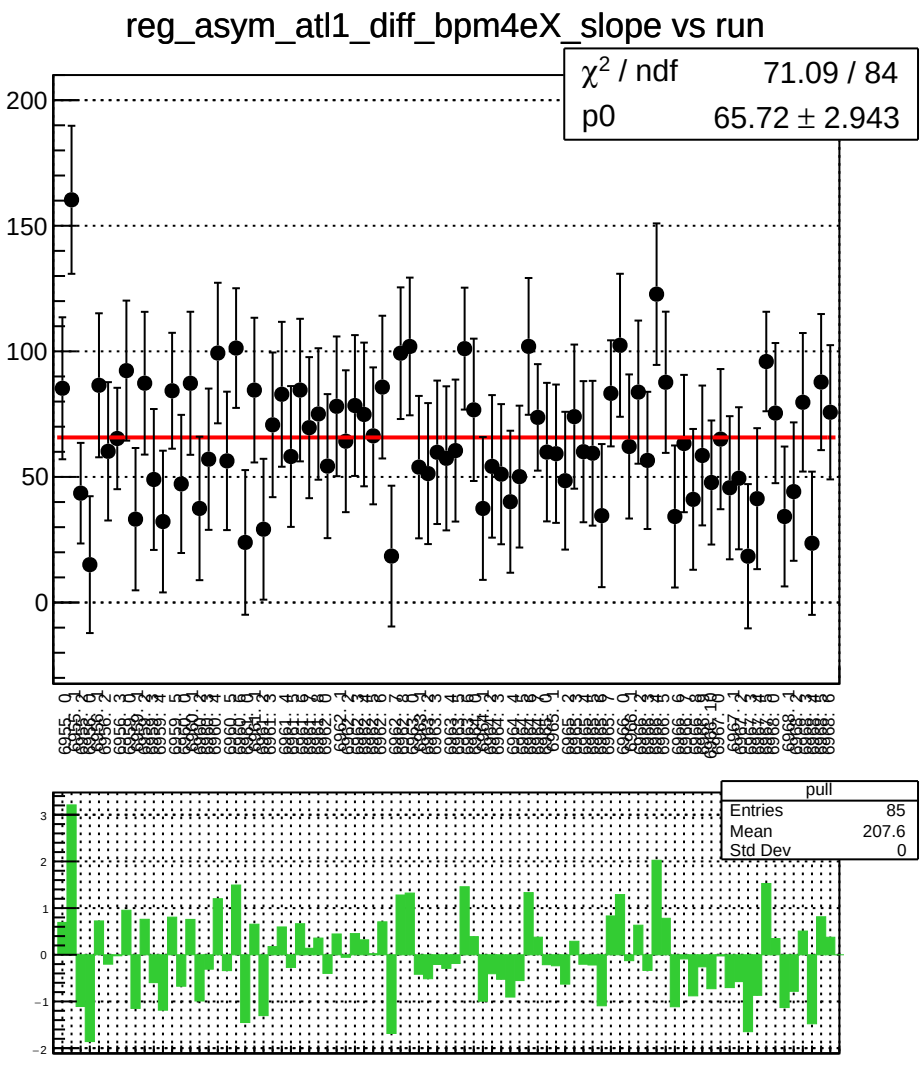

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 5.491 / 84
p0 0.2064 ± 0.02566
pull
Entries 85
Mean −454.9
Std Dev 0
pull1D
Entries 85
Mean −0.002057
Std Dev 0.2542

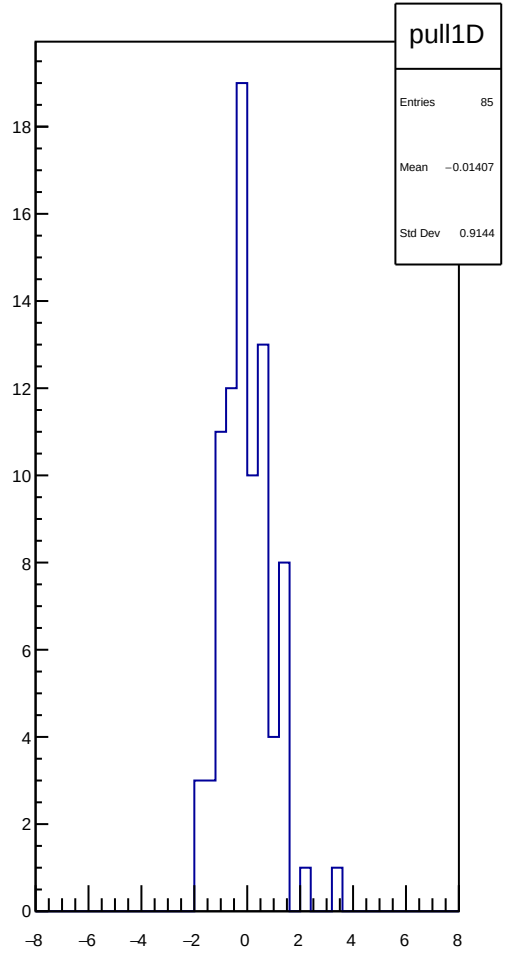

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 72.18 / 84
p0 −28.37 ± 3.186
50
0
−50
−100
−150
pull
Entries 85
Mean 220
Std Dev 0
1
0
−1
−2
−3

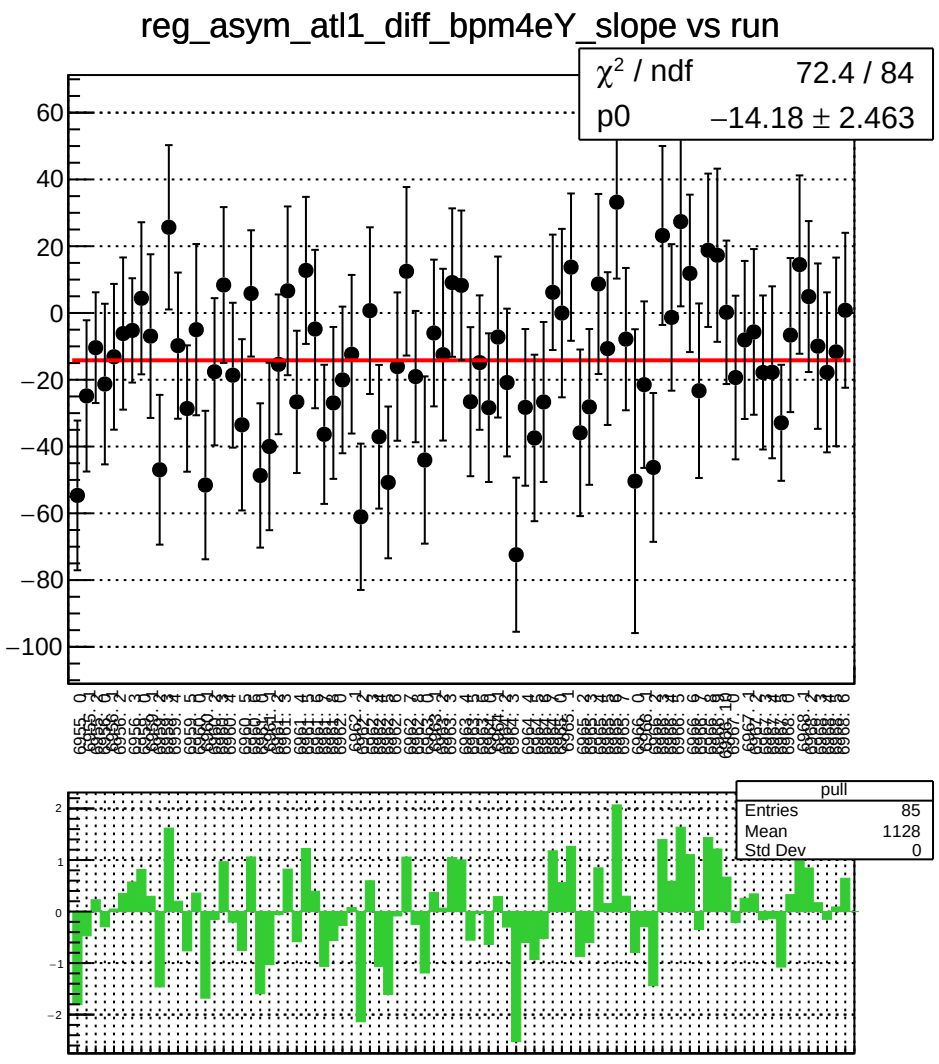

pull1D
Entries 85
Mean 0.01324
Std Dev 0.9214
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

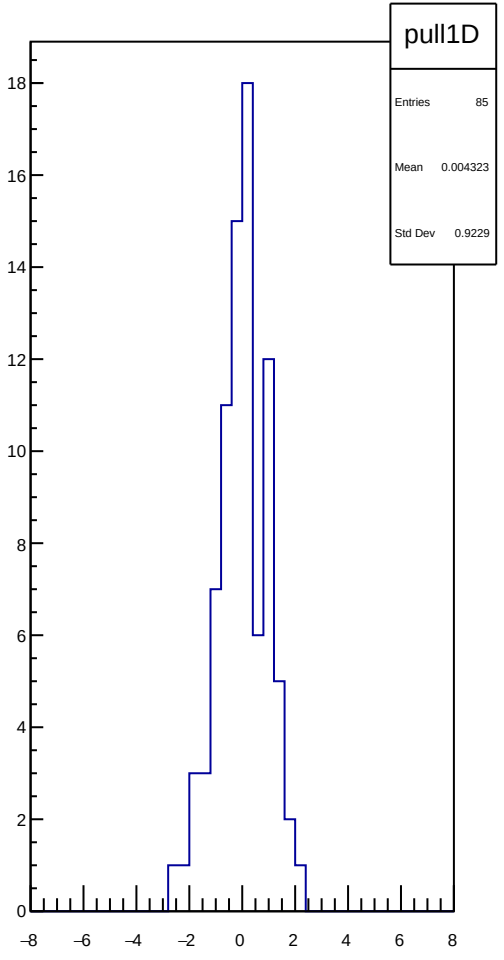

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 69.11 / 84
p0 8.819 ± 2.17
pull
Entries 85
Mean 1794
Std Dev 0

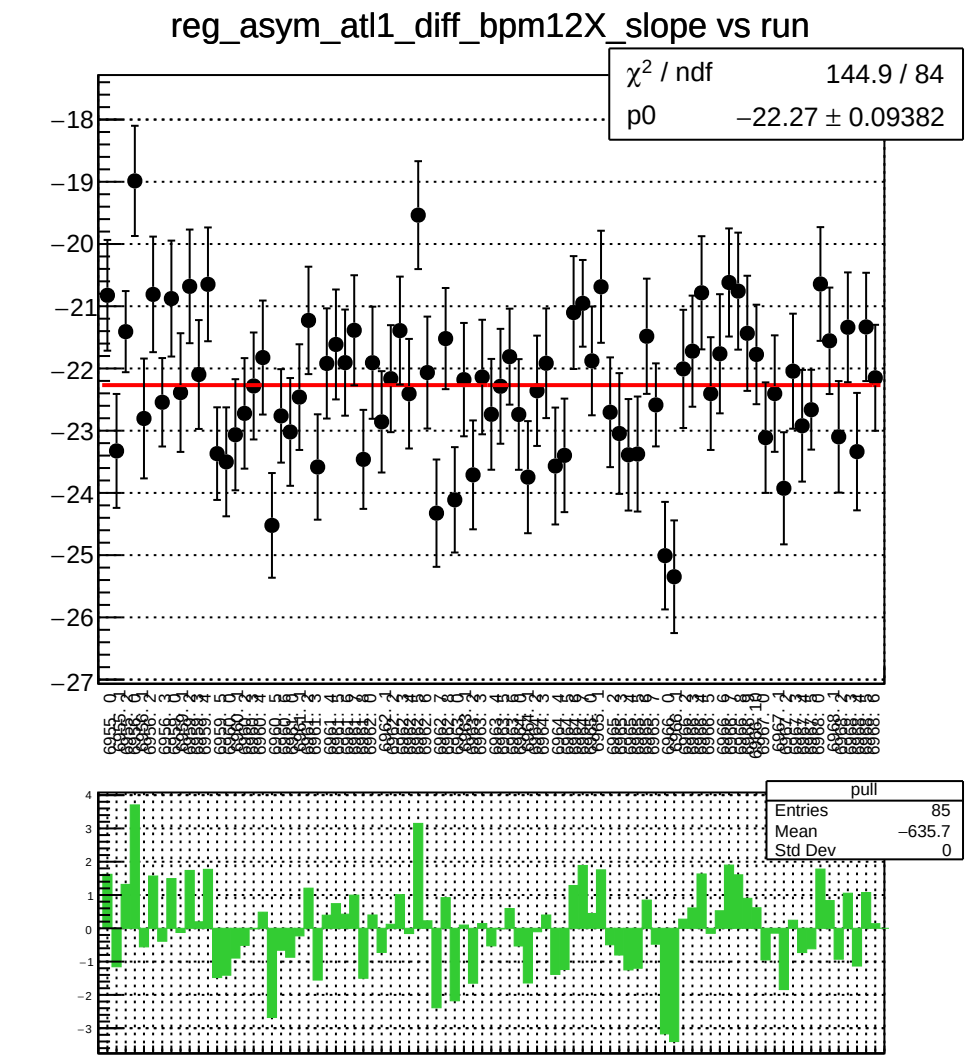

pull1D
Entries 85
Mean −0.002132
Std Dev 0.9017

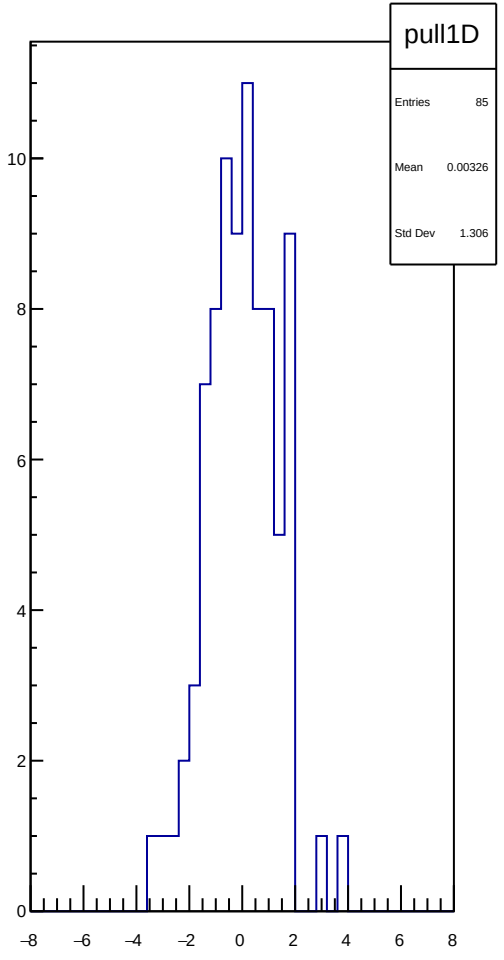

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 71.09 / 84
p0 65.72 ± 2.943
pull
Entries 85
Mean 207.6
Std Dev 0

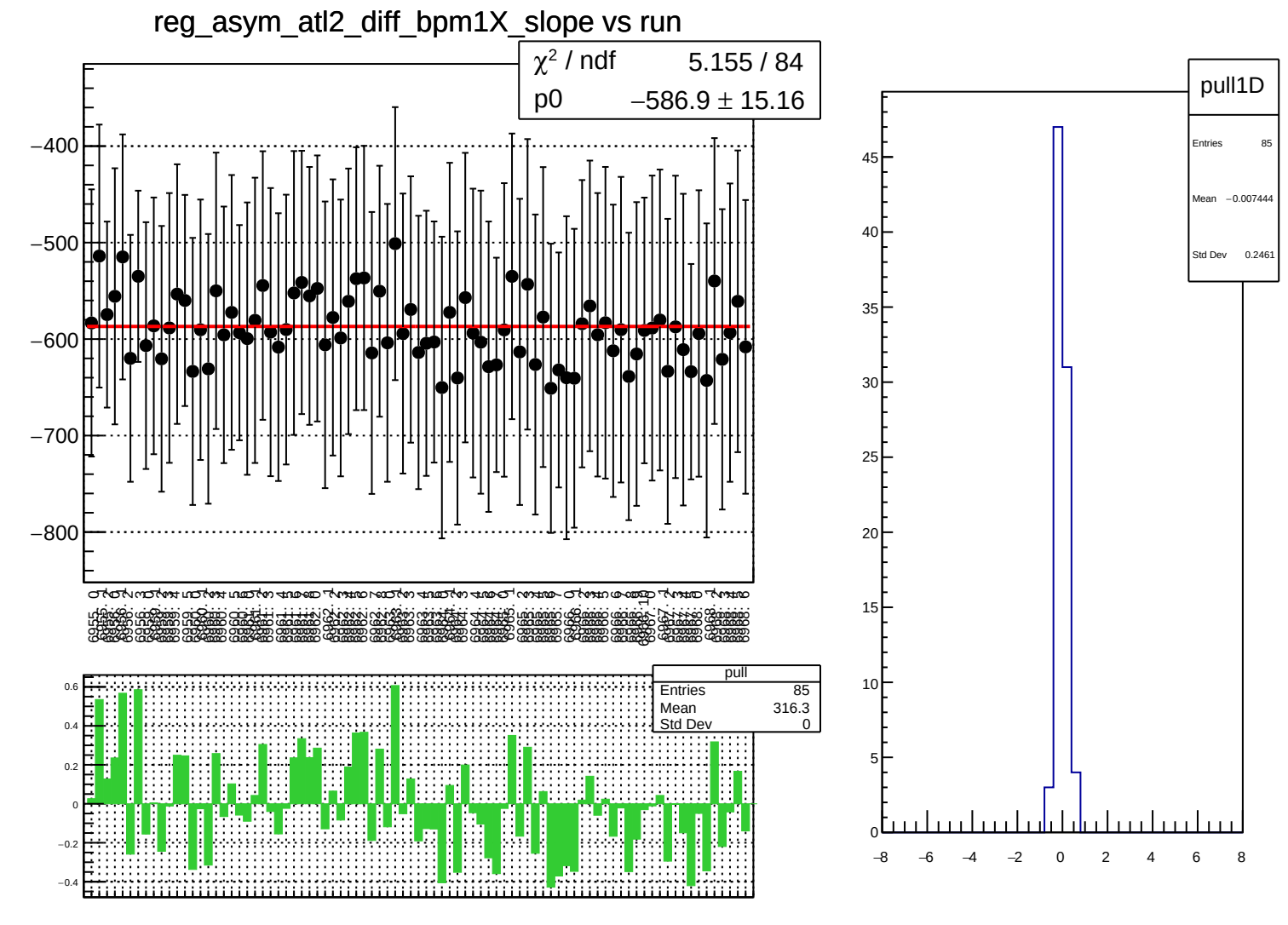

pull1D
Entries 85
Mean −0.01407
Std Dev 0.9144

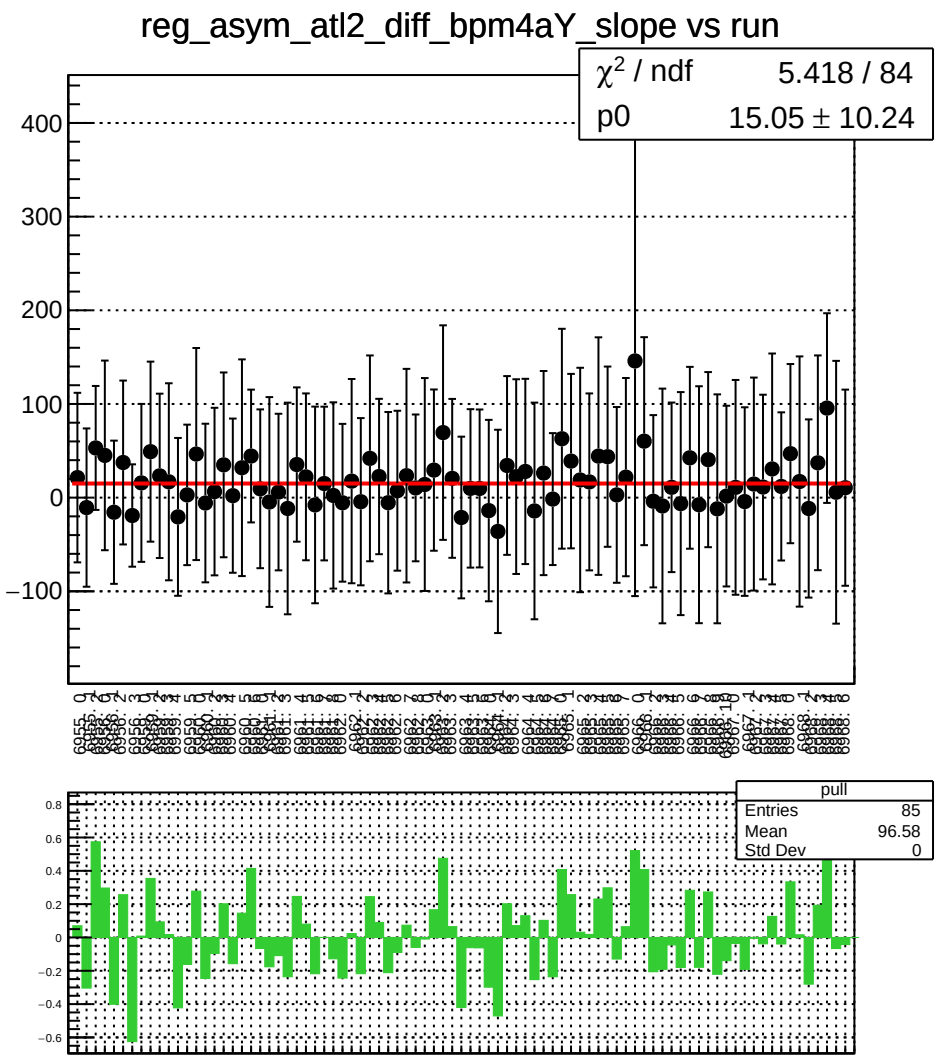

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 72.4 / 84
p0 −14.18 ± 2.463
pull
Entries 85
Mean 1128
Std Dev 0

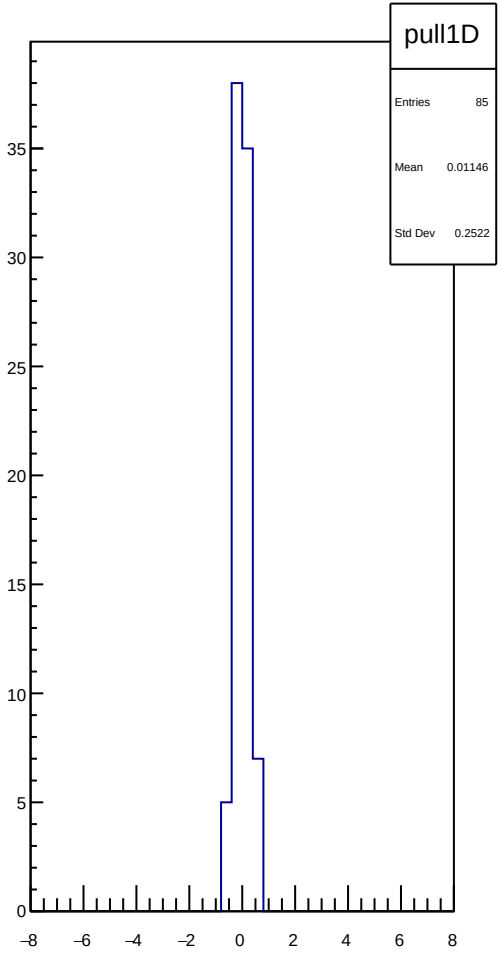

pull1D
Entries 85
Mean 0.004323
Std Dev 0.9229

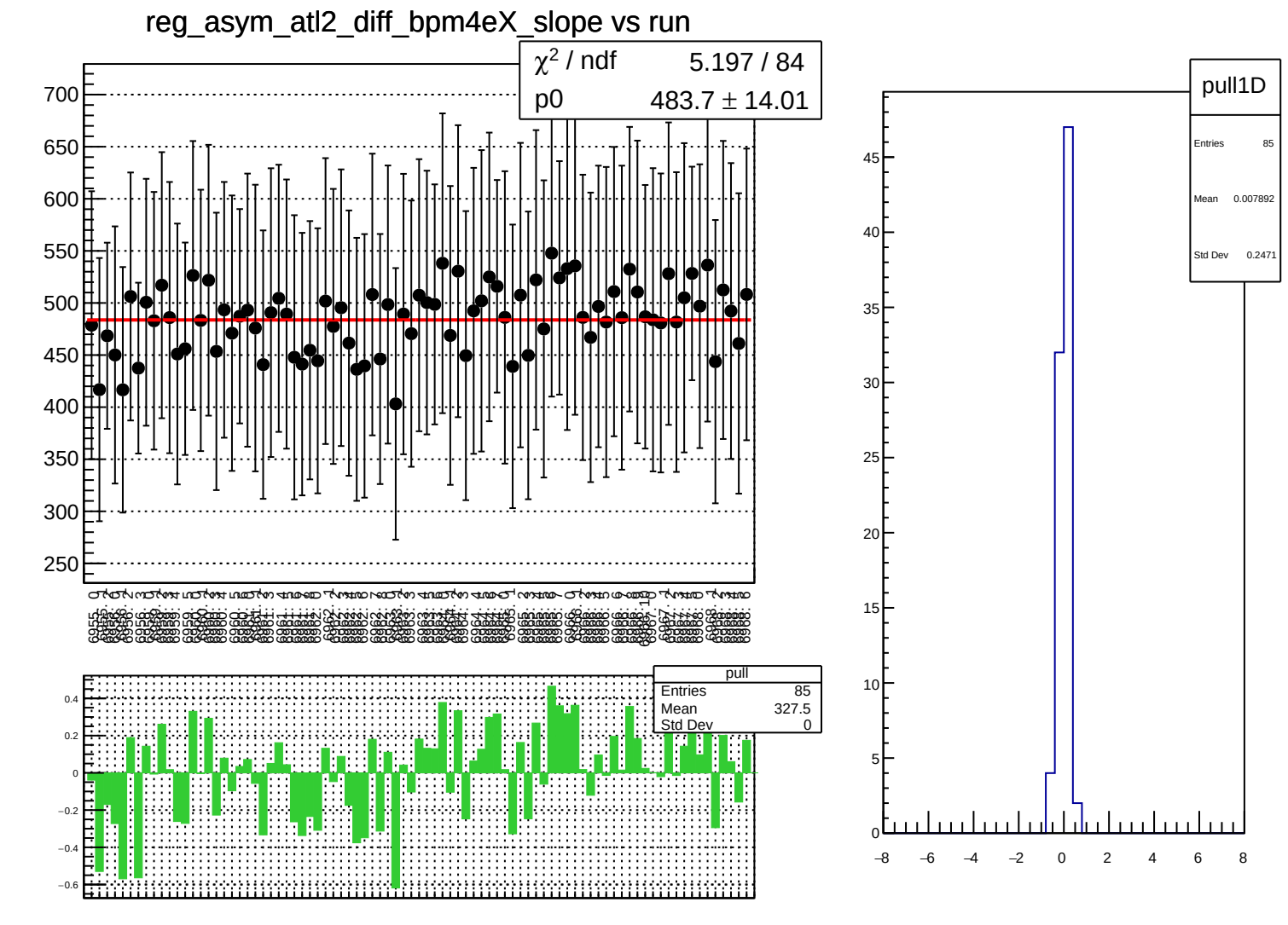

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 144.9 / 84
p0 −22.27 ± 0.09382
pull
Entries 85
Mean −635.7
Std Dev 0

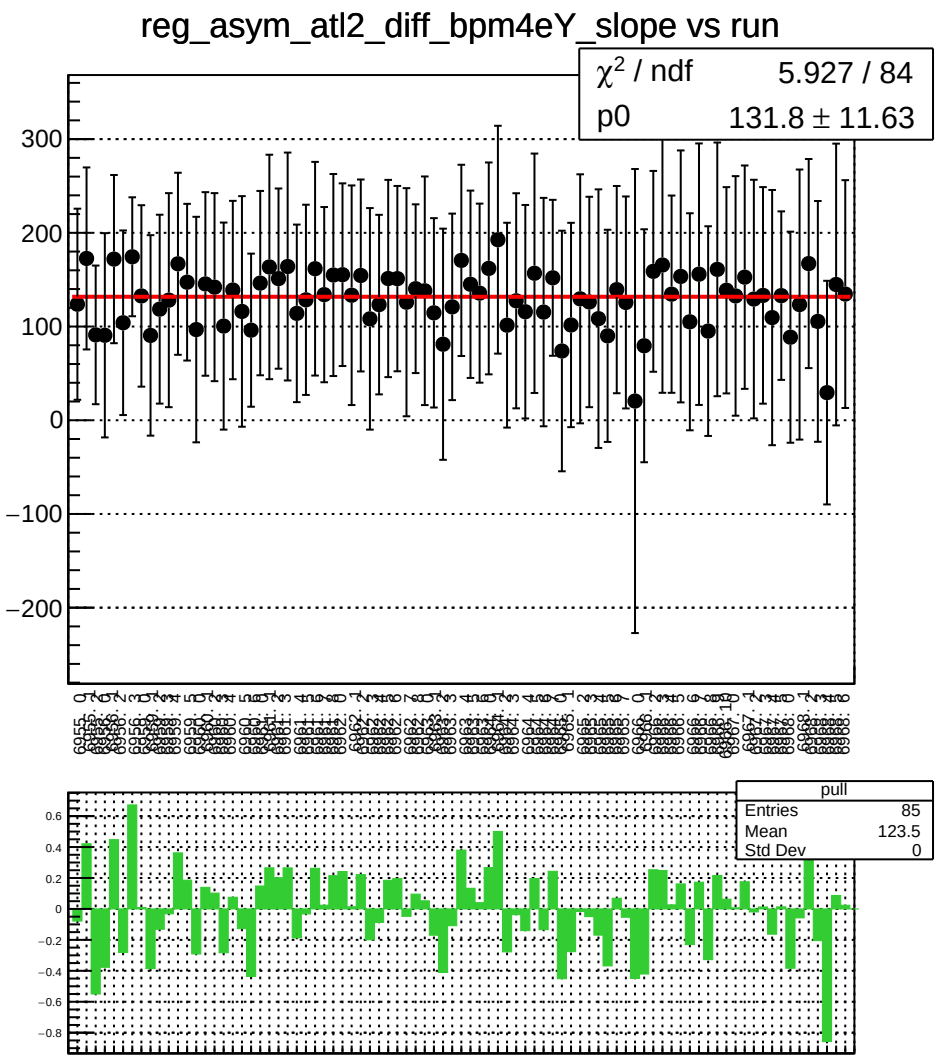

pull1D
Entries 85
Mean 0.00326
Std Dev 1.306

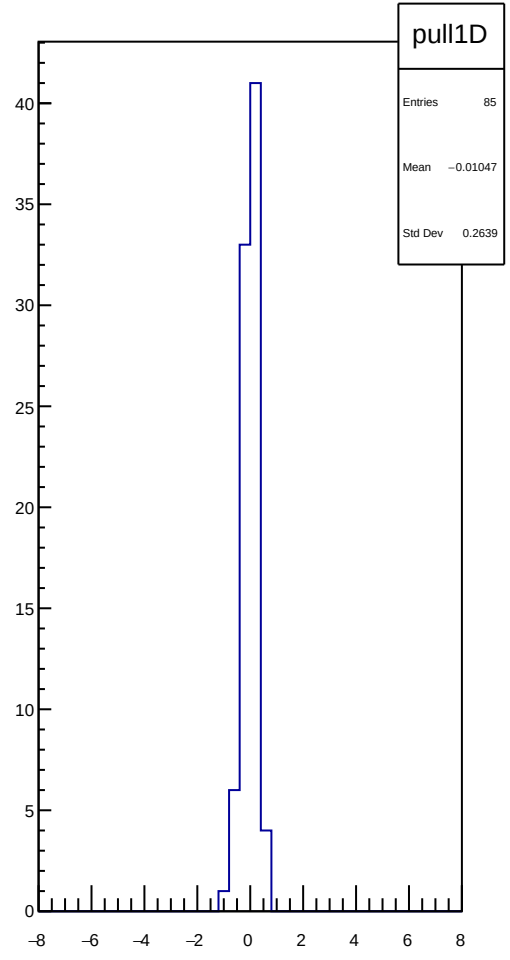

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 5.155 / 84
p0 −586.9 ± 15.16
−400
−500
−600
−700
−800
pull
Entries 85
Mean 316.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 85
Mean −0.007444
Std Dev 0.2461
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

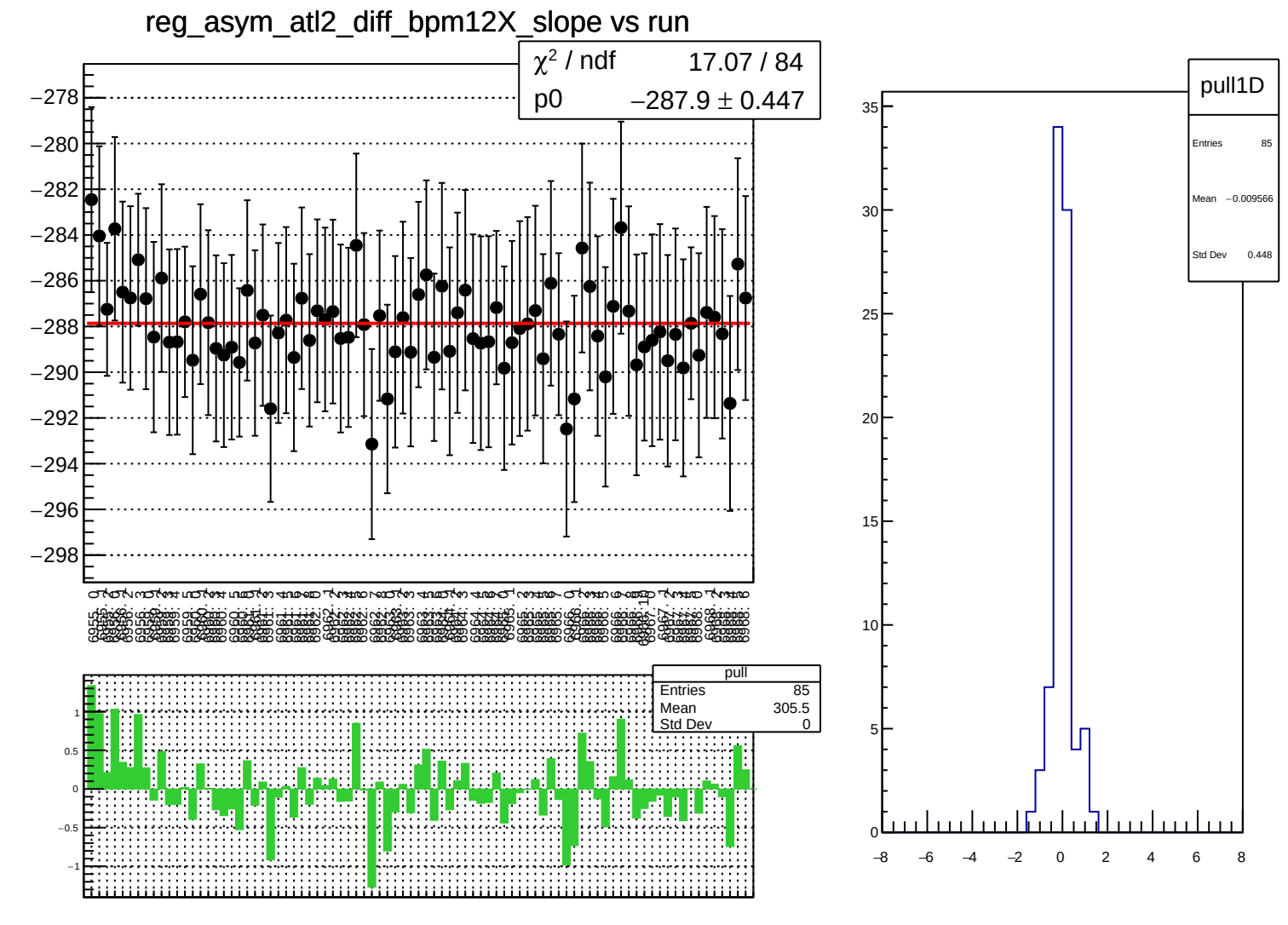

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.418 / 84
p0 15.05 ± 10.24
pull
Entries 85
Mean 96.58
Std Dev 0

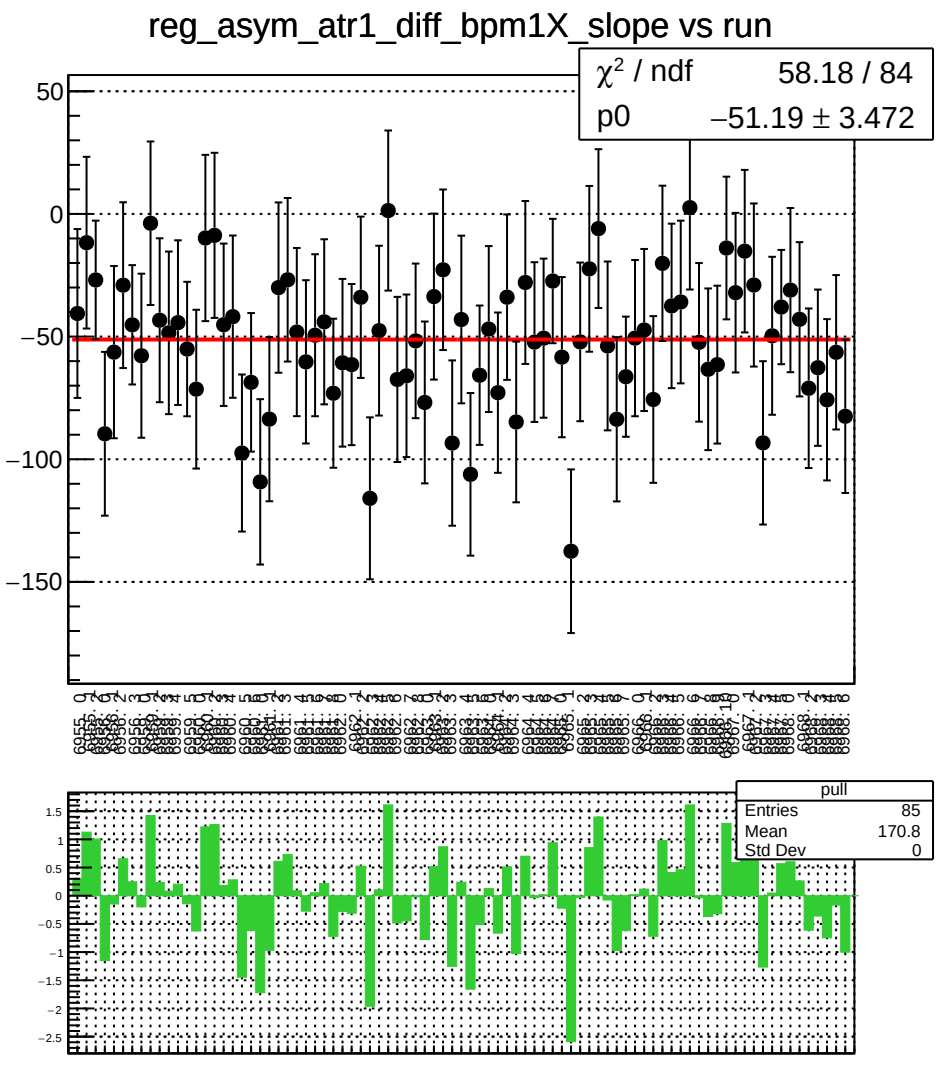

pull1D
Entries 85
Mean 0.01146
Std Dev 0.2522

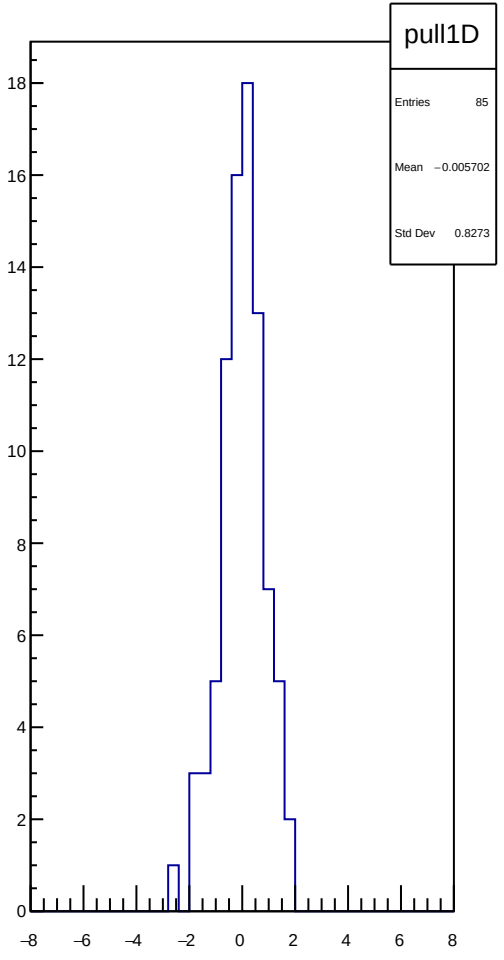

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 5.197 / 84
p0 483.7 ± 14.01
pull
Entries 85
Mean 327.5
Std Dev 0
pull1D
Entries 85
Mean 0.007892
Std Dev 0.2471

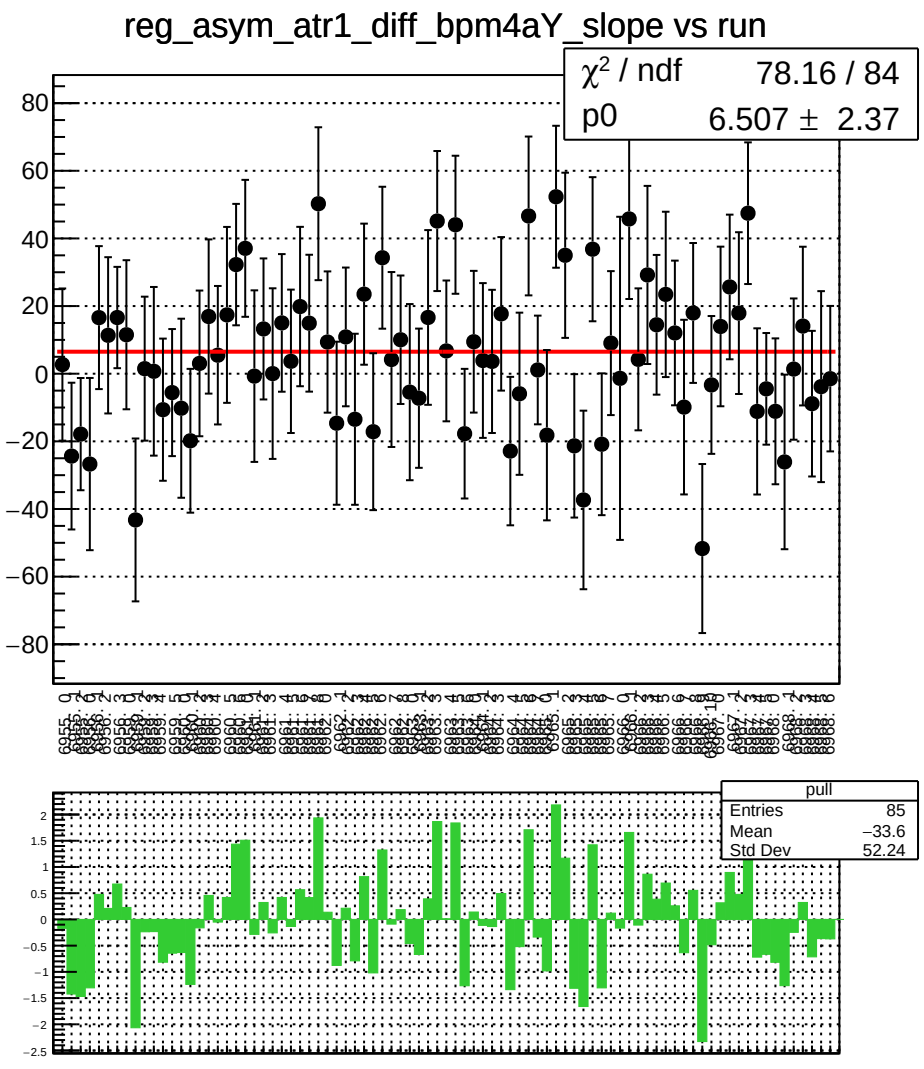

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.927 / 84
p0 131.8 ± 11.63
pull
Entries 85
Mean 123.5
Std Dev 0

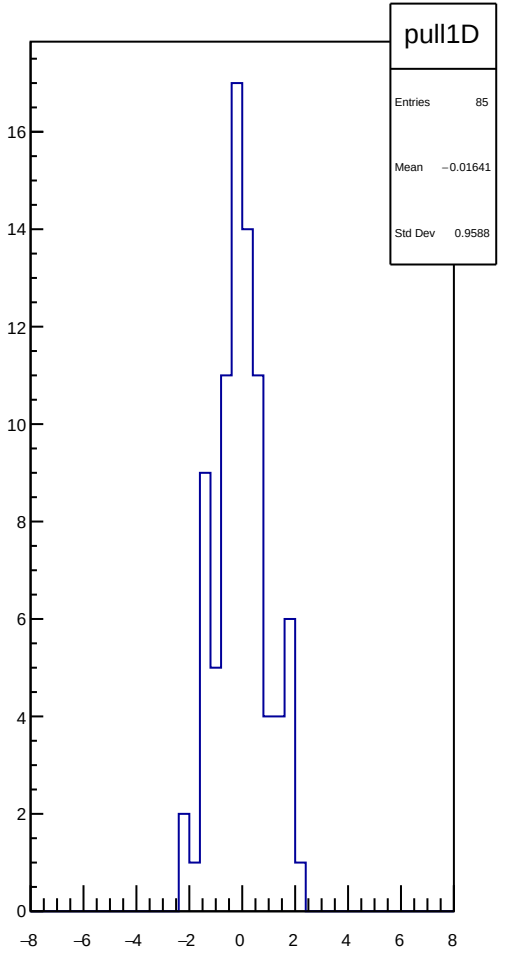

pull1D
Entries 85
Mean −0.01047
Std Dev 0.2639

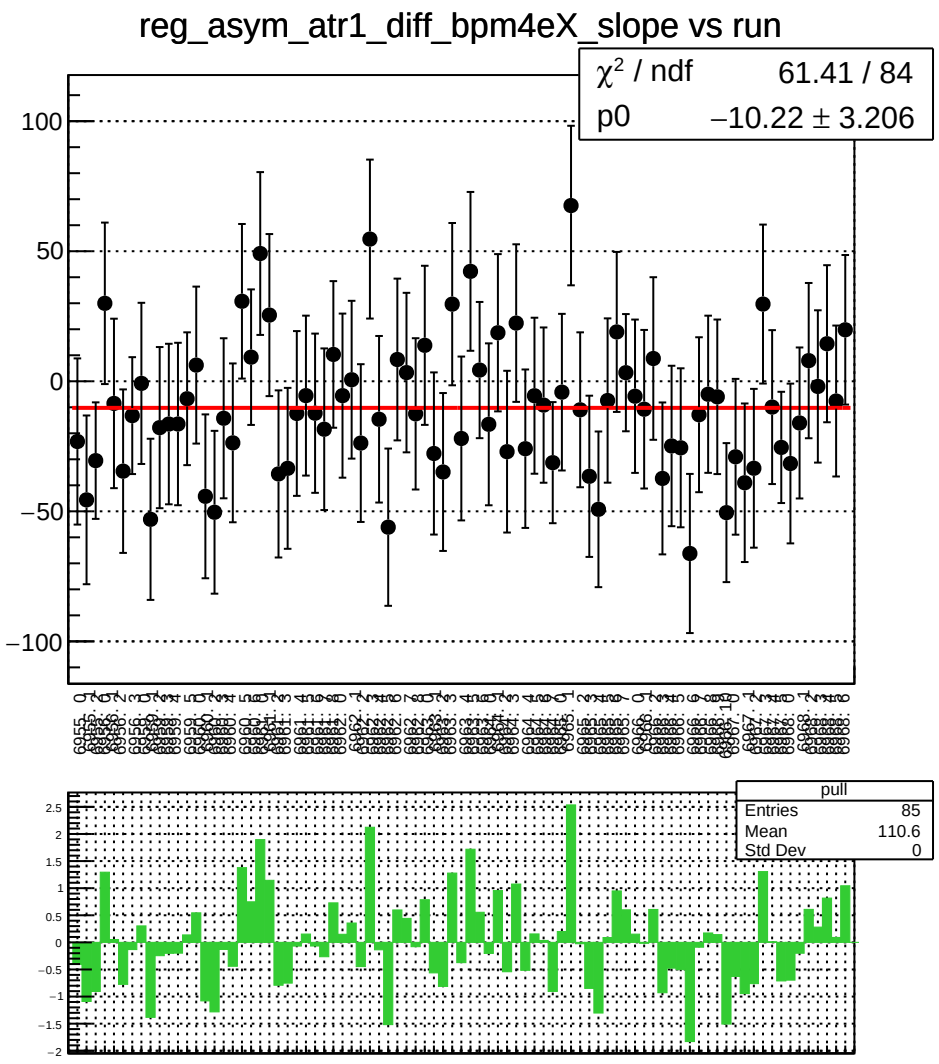

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 17.07 / 84
p0 −287.9 ± 0.447
pull
Entries 85
Mean 305.5
Std Dev 0
pull1D
Entries 85
Mean −0.009566
Std Dev 0.448

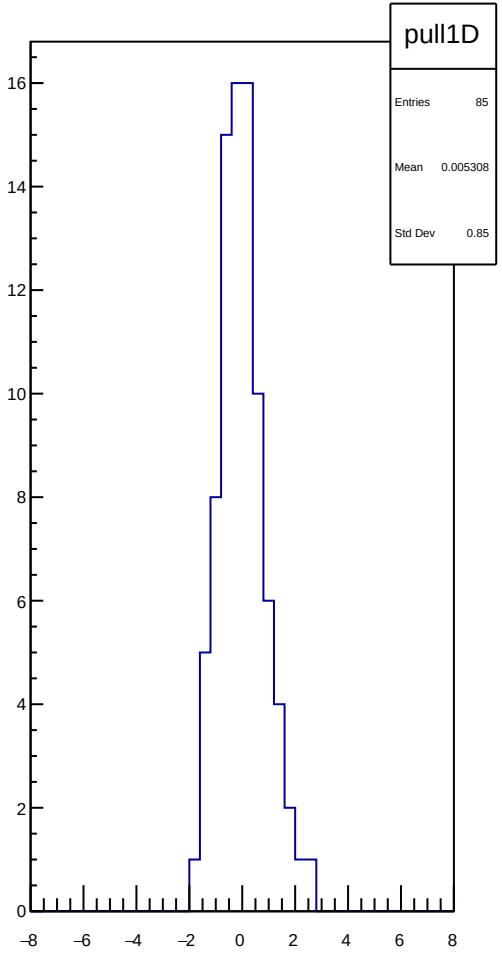

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 58.18 / 84
p0 −51.19 ± 3.472
pull
Entries 85
Mean 170.8
Std Dev 0

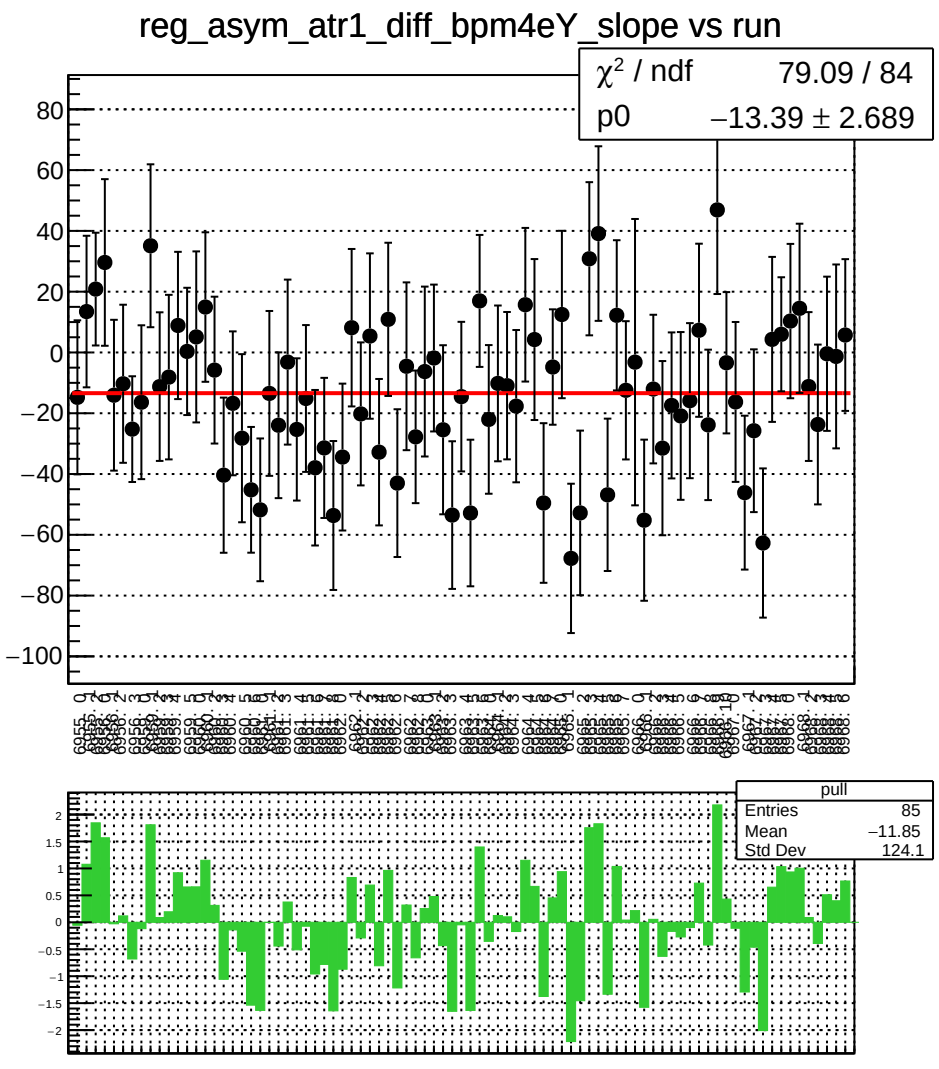

pull1D
Entries 85
Mean −0.005702
Std Dev 0.8273

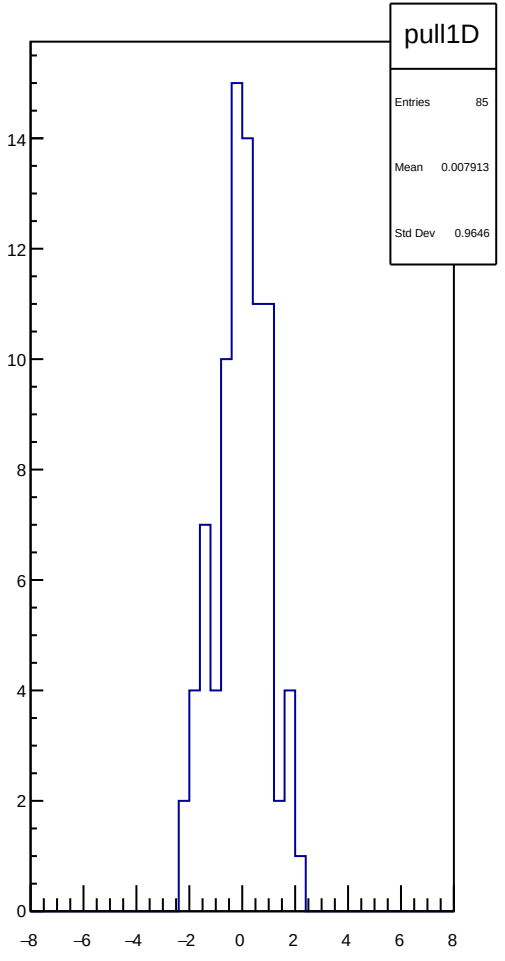

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 78.16 / 84
p0 6.507 ± 2.37
pull
Entries 85
Mean −33.6
Std Dev 52.24

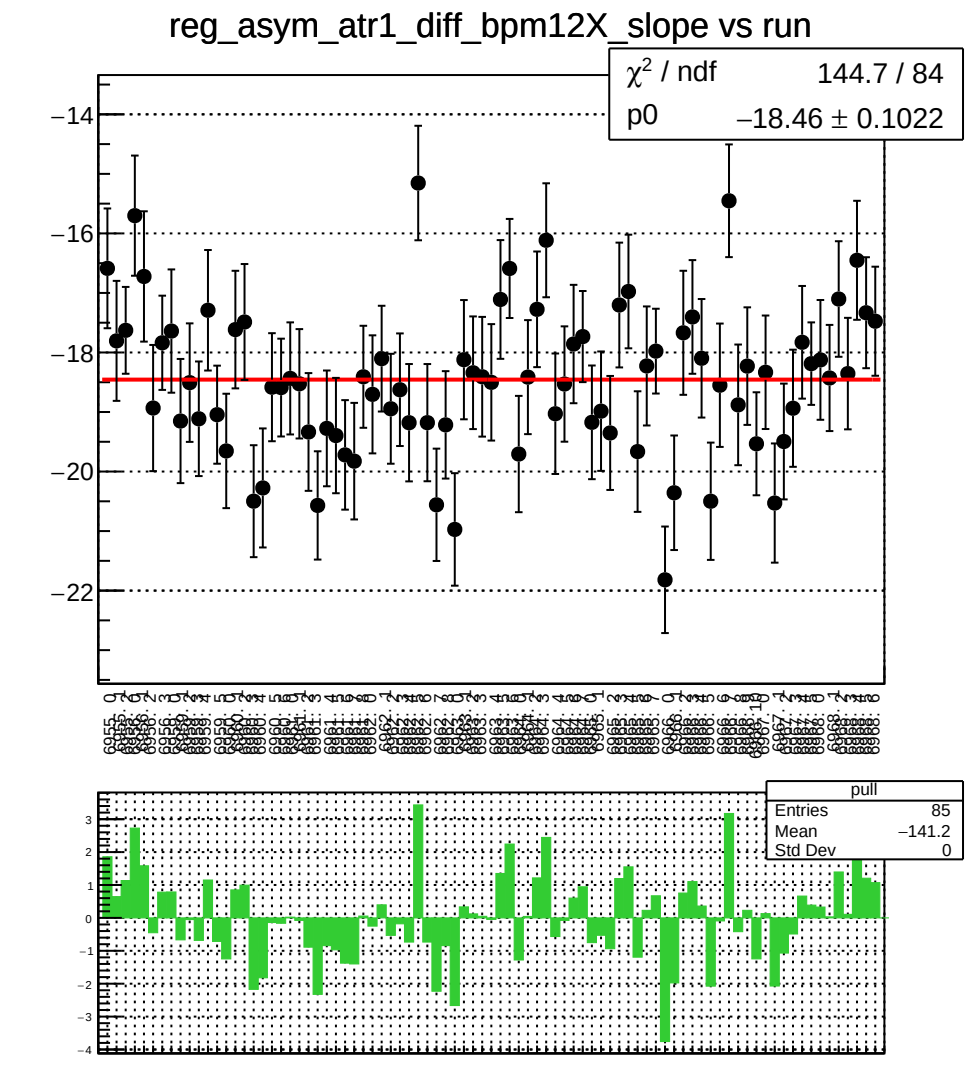

pull1D
Entries 85
Mean −0.01641
Std Dev 0.9588

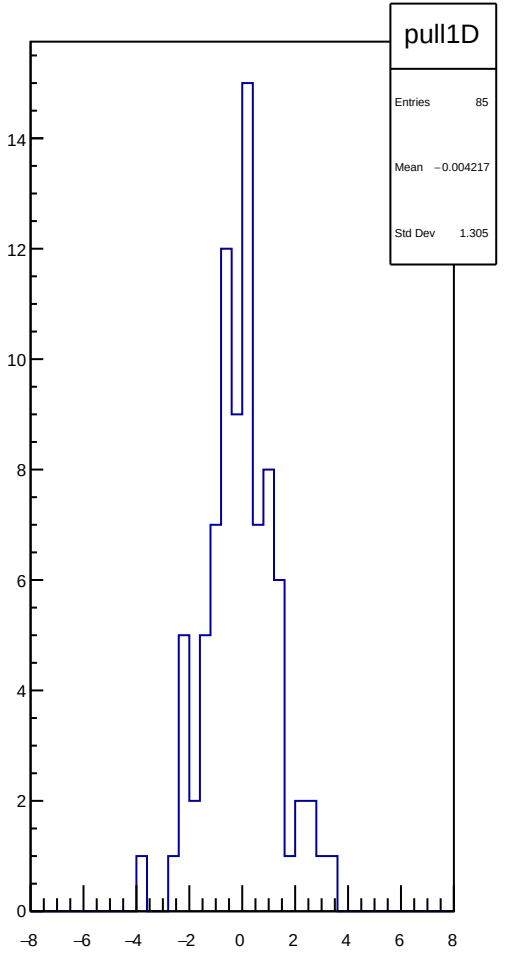

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 61.41 / 84
p0 −10.22 ± 3.206
pull
Entries 85
Mean 110.6
Std Dev 0

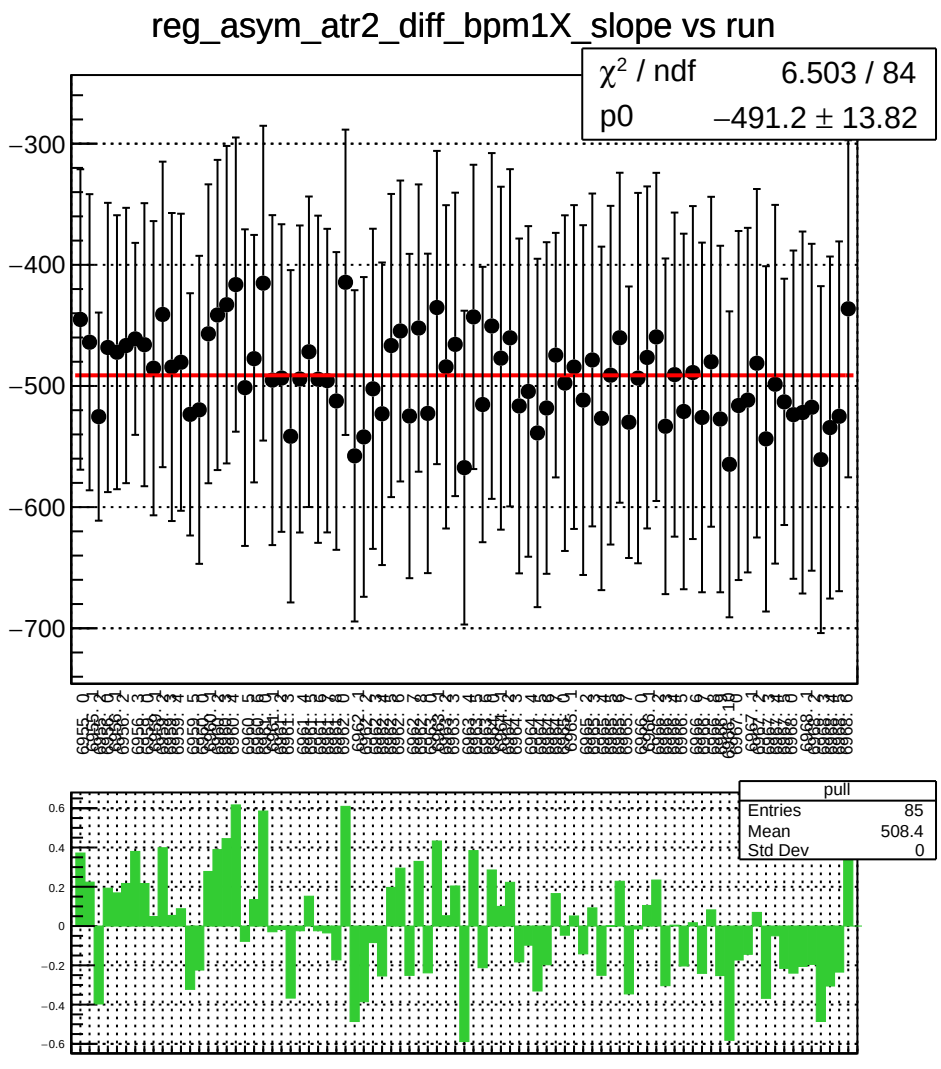

pull1D
Entries 85
Mean 0.005308
Std Dev 0.85

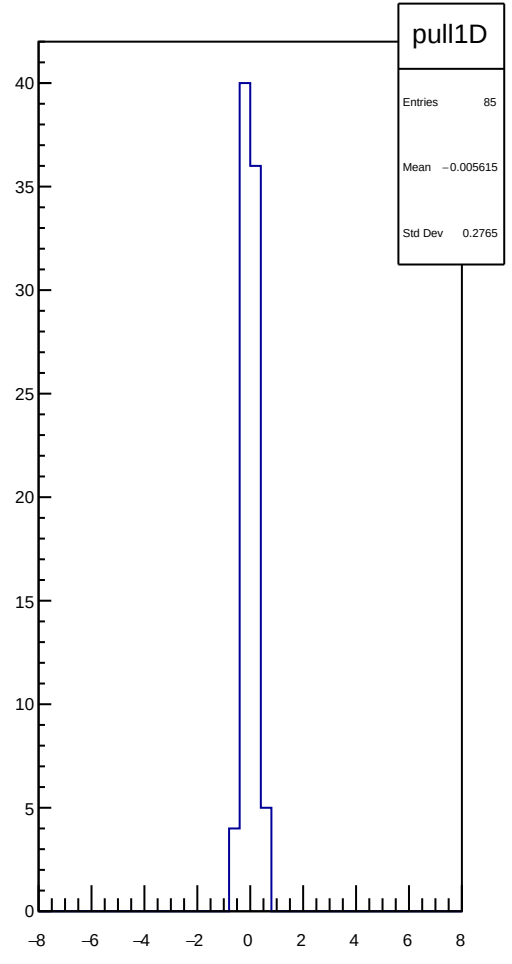

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 79.09 / 84
p0 −13.39 ± 2.689
pull
Entries 85
Mean −11.85
Std Dev 124.1

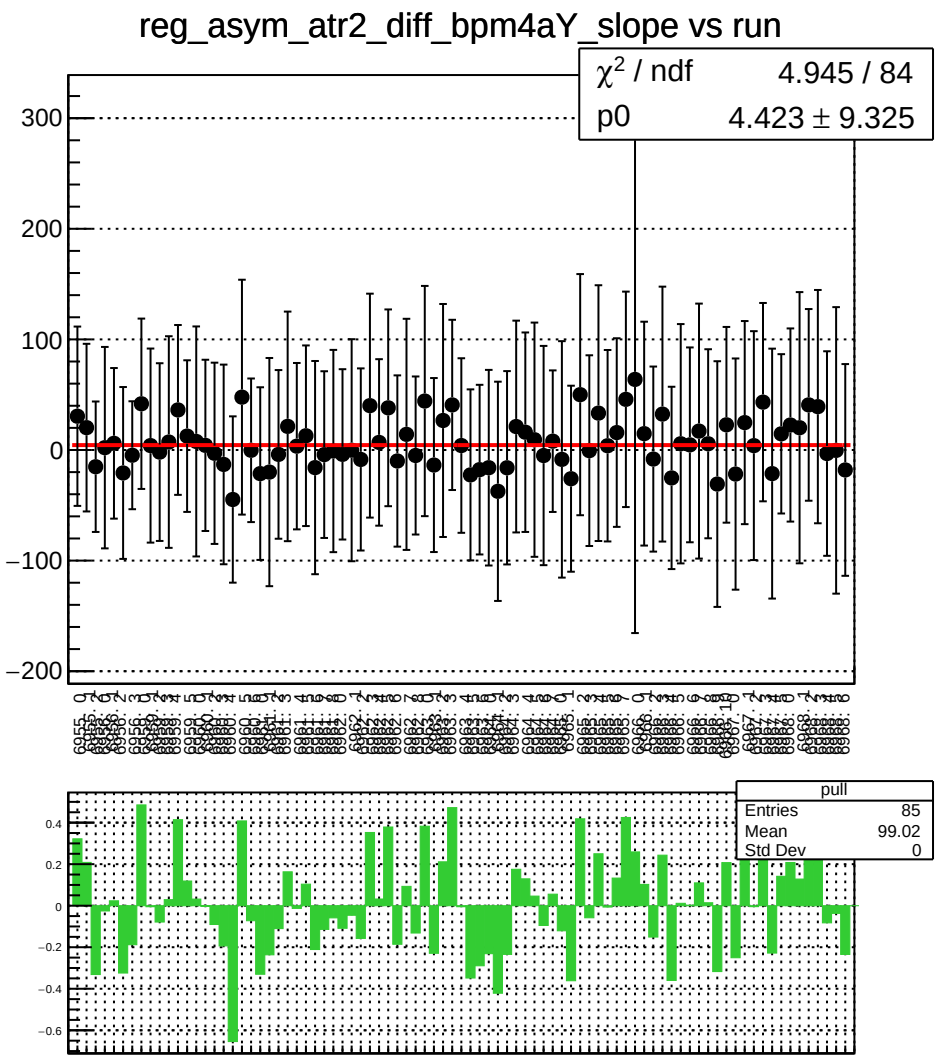

pull1D
Entries 85
Mean 0.007913
Std Dev 0.9646

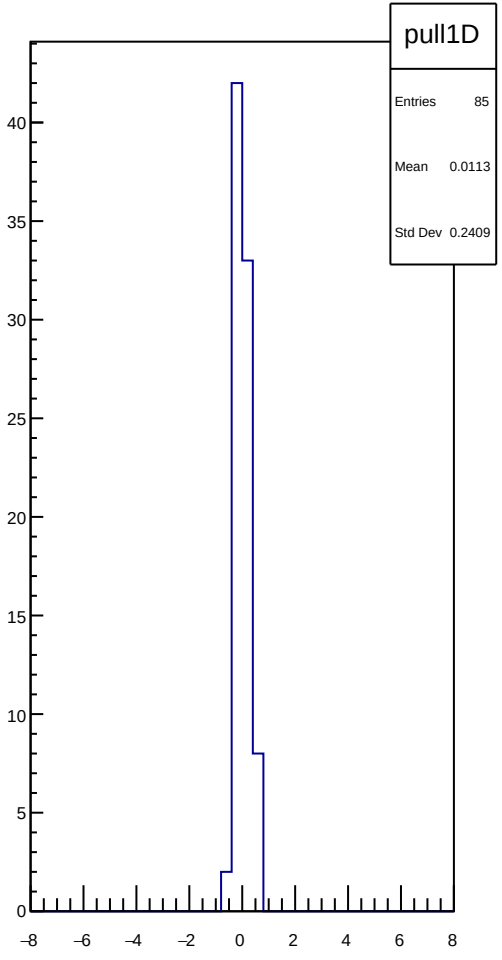

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 144.7 / 84
p0 −18.46 ± 0.1022
pull
Entries 85
Mean −141.2
Std Dev 0

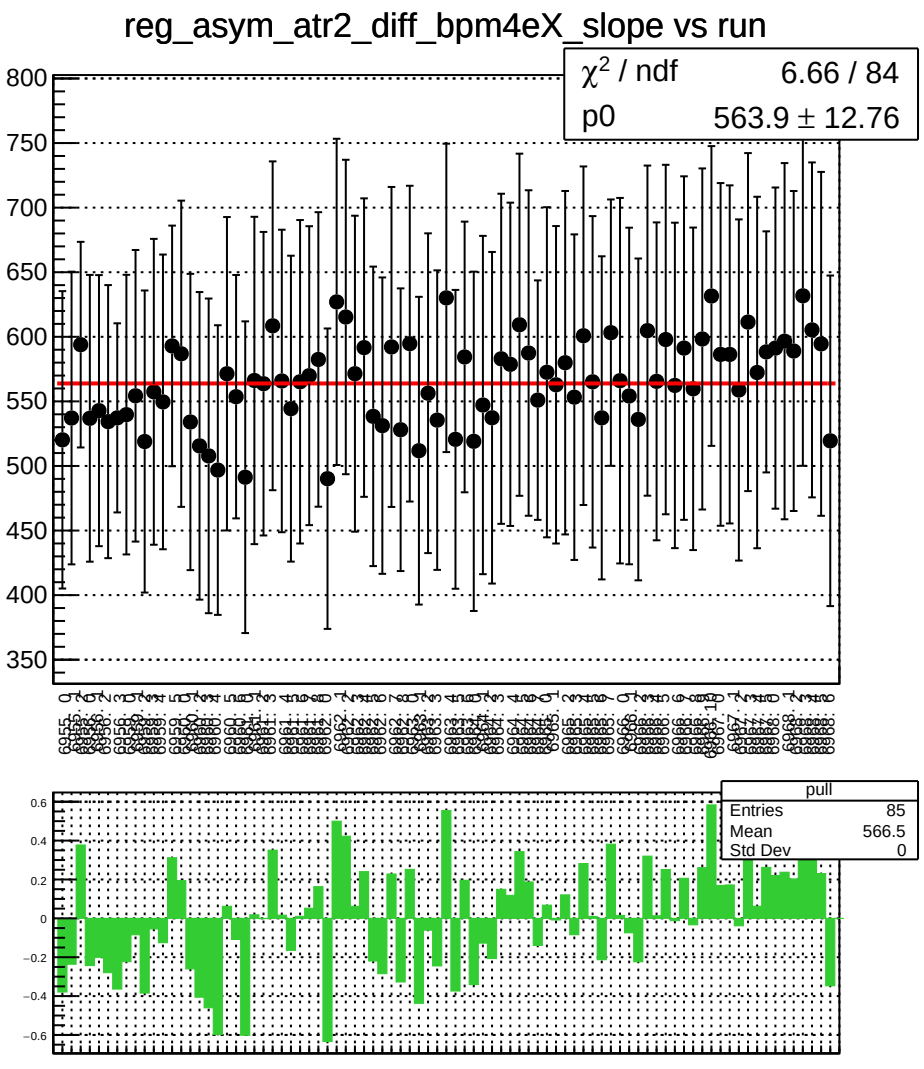

pull1D
Entries 85
Mean −0.004217
Std Dev 1.305

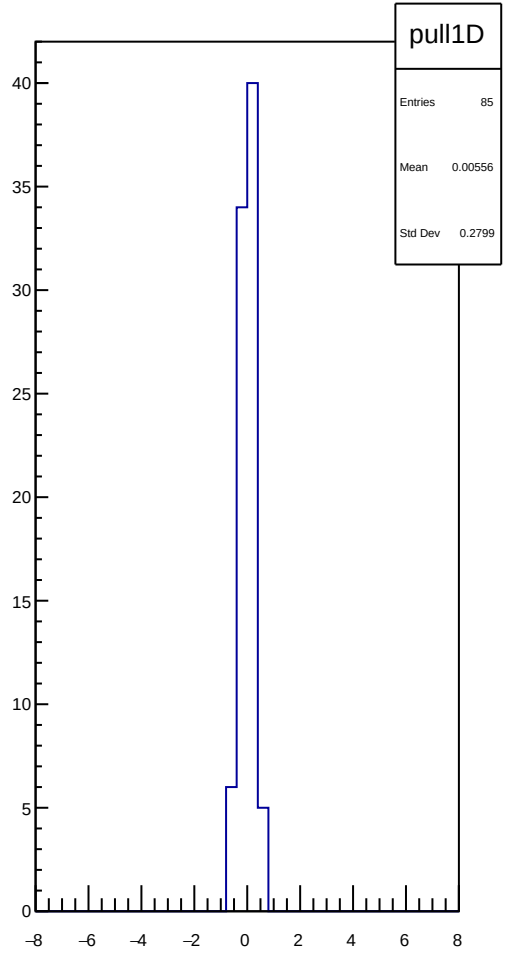

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 6.503 / 84
p0 −491.2 ± 13.82
−300
−400
−500
−600
−700
pull
Entries 85
Mean 508.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

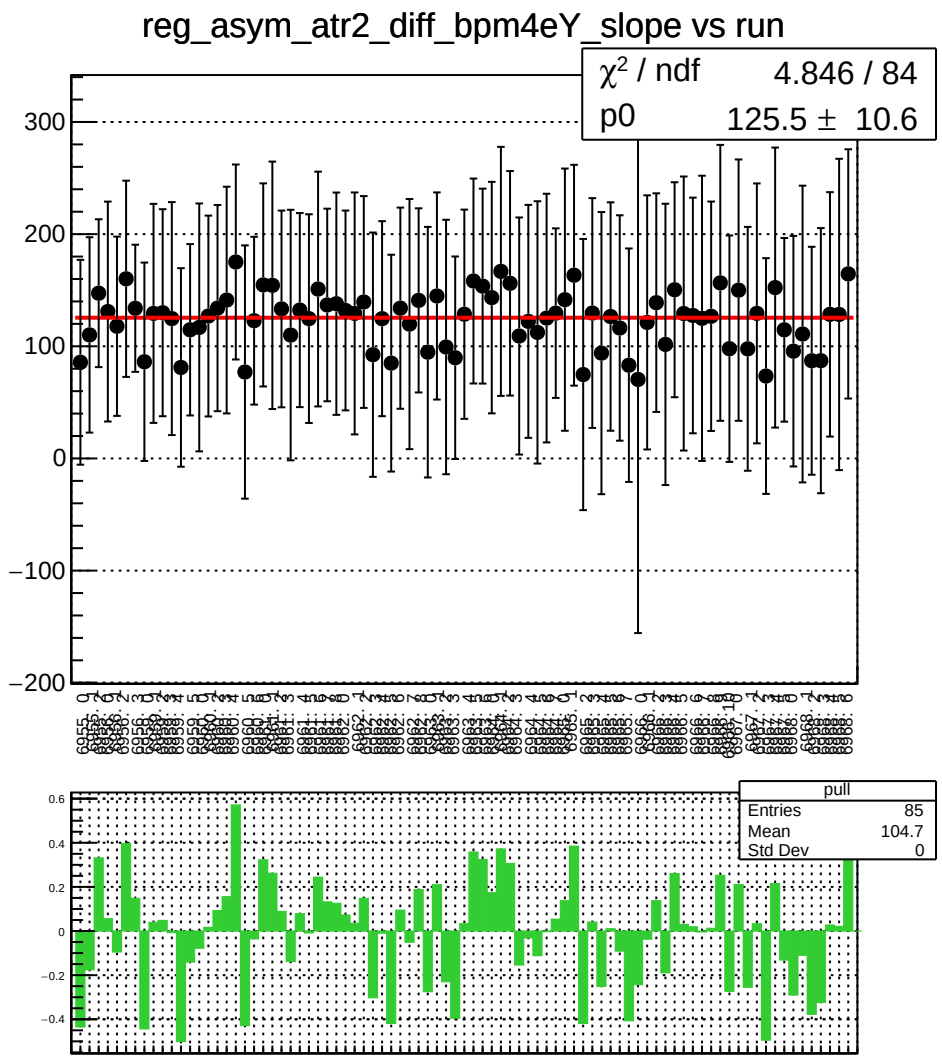

pull1D
Entries 85
Mean −0.005615
Std Dev 0.2765
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

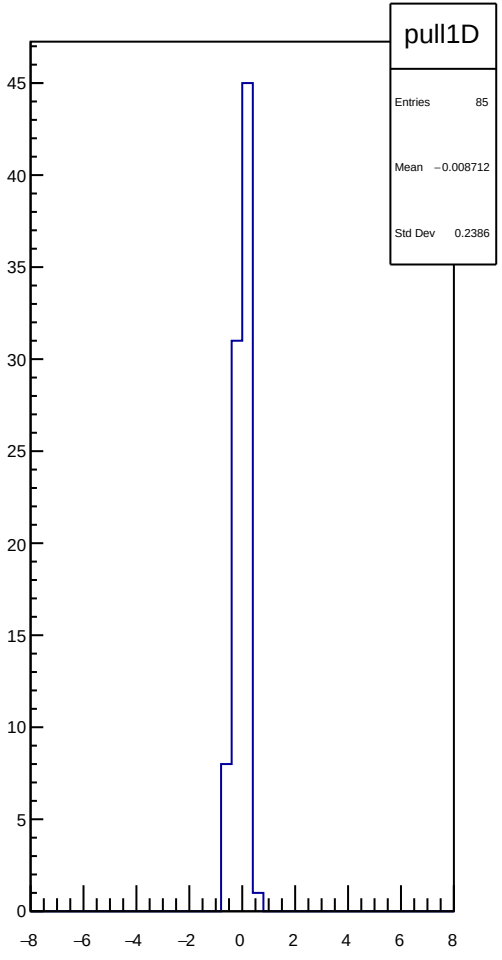

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.945 / 84
p0 4.423 ± 9.325
pull
Entries 85
Mean 99.02
Std Dev 0

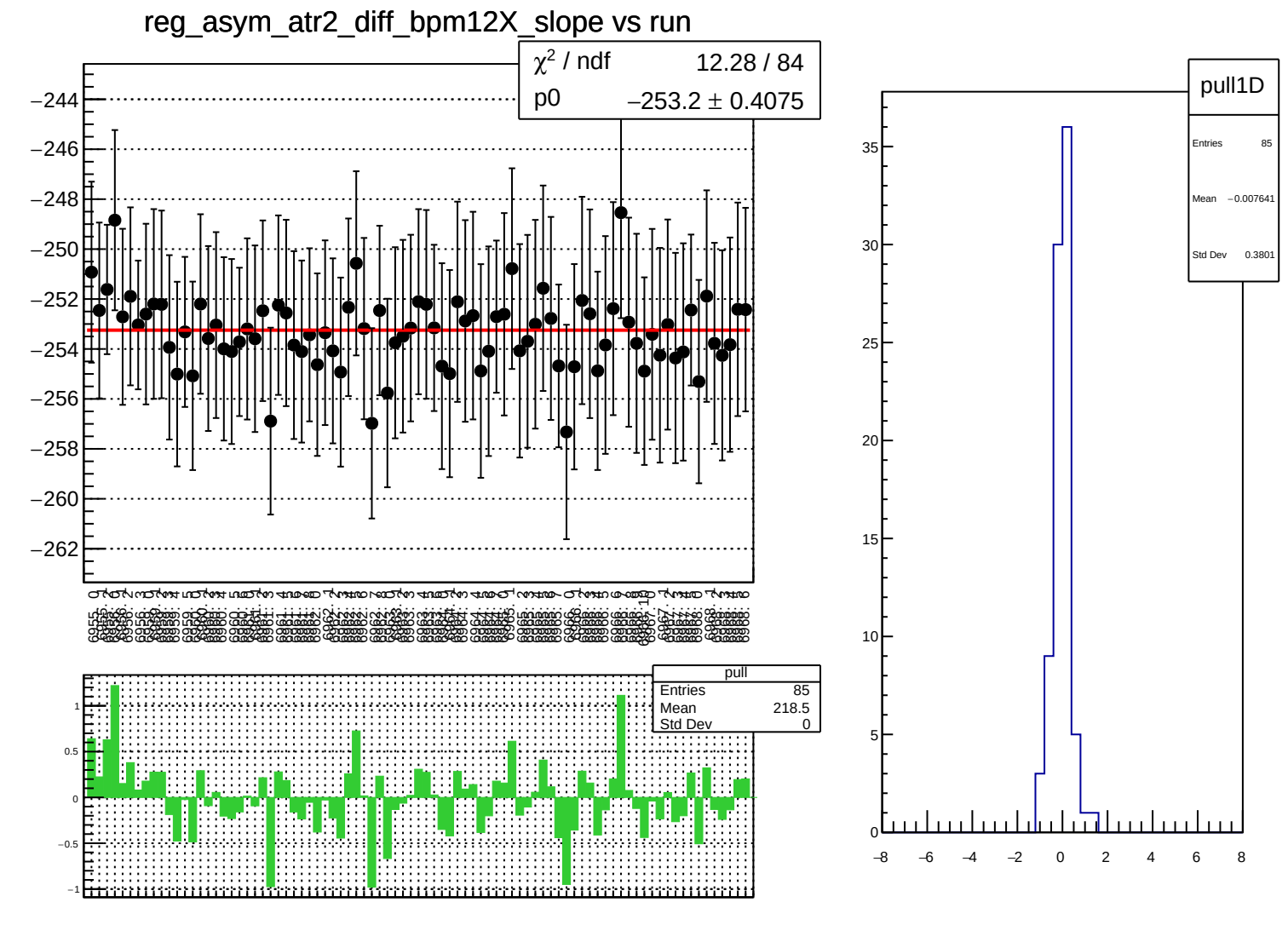

pull1D
Entries 85
Mean 0.0113
Std Dev 0.2409

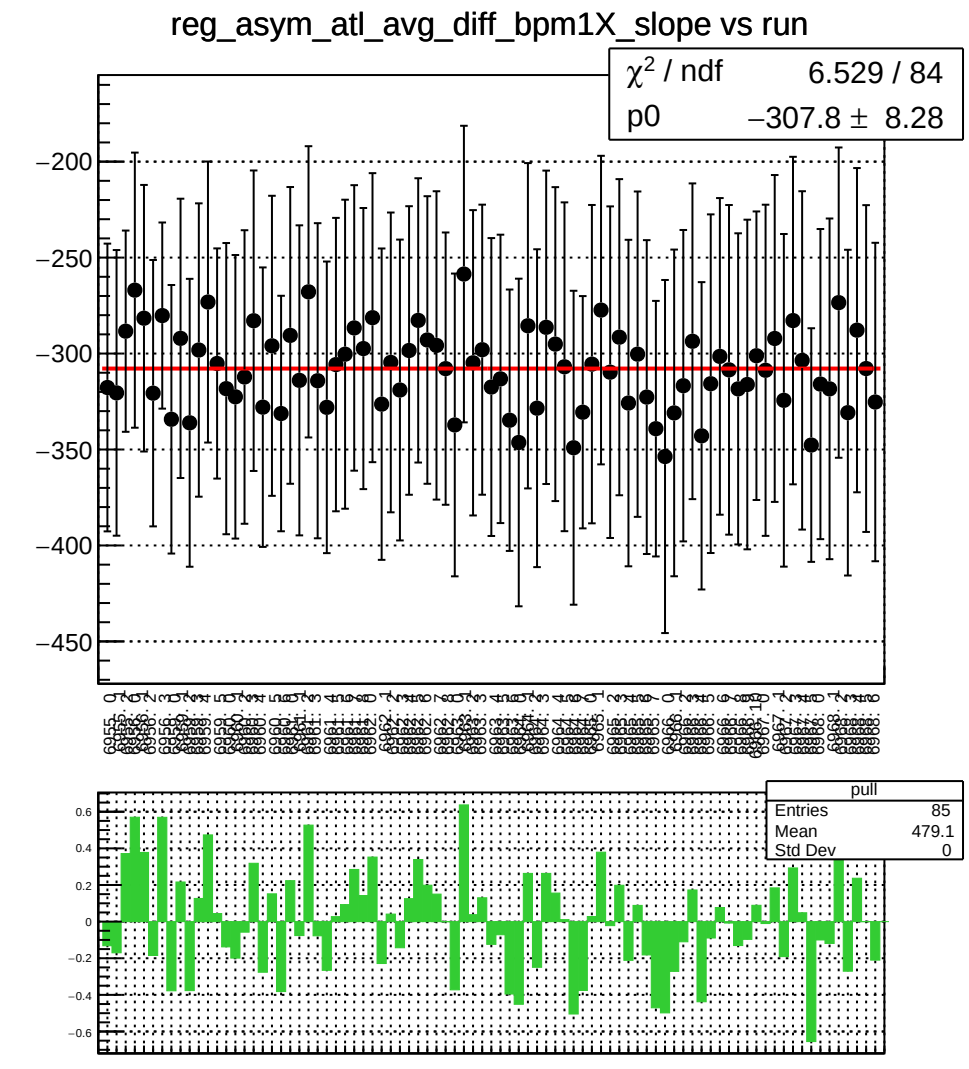

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 6.66 / 84
p0 563.9 ± 12.76
pull
Entries 85
Mean 566.5
Std Dev 0

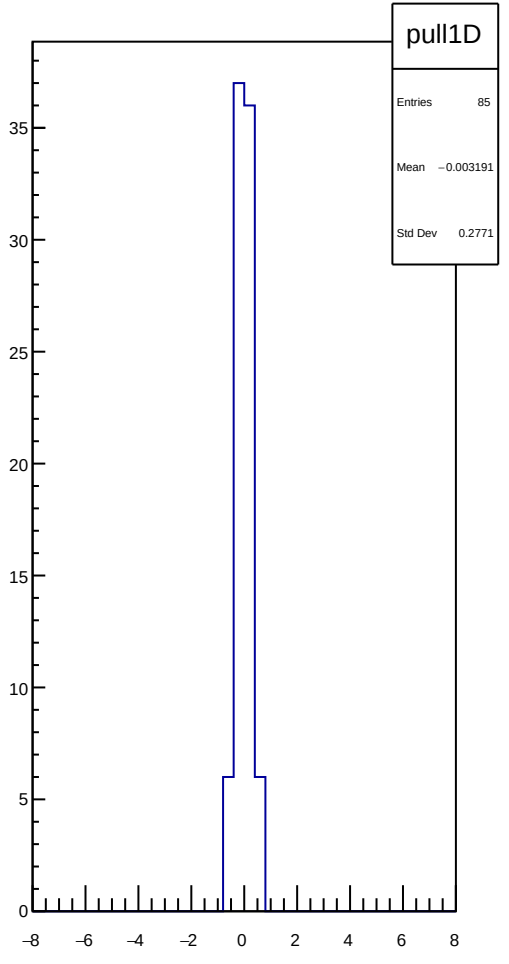

pull1D
Entries 85
Mean 0.00556
Std Dev 0.2799

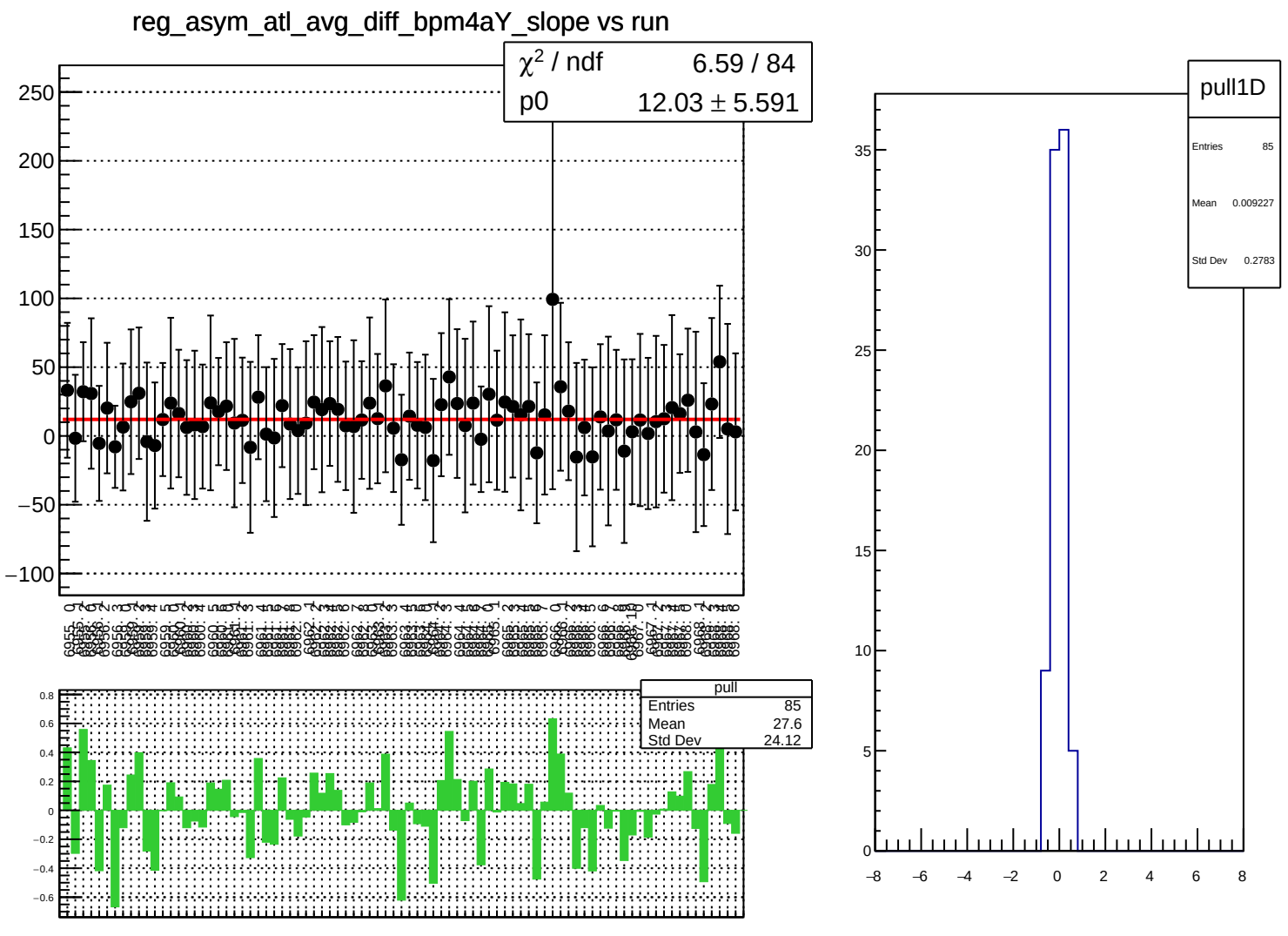

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.846 / 84
p0 125.5 ± 10.6
pull
Entries 85
Mean 104.7
Std Dev 0

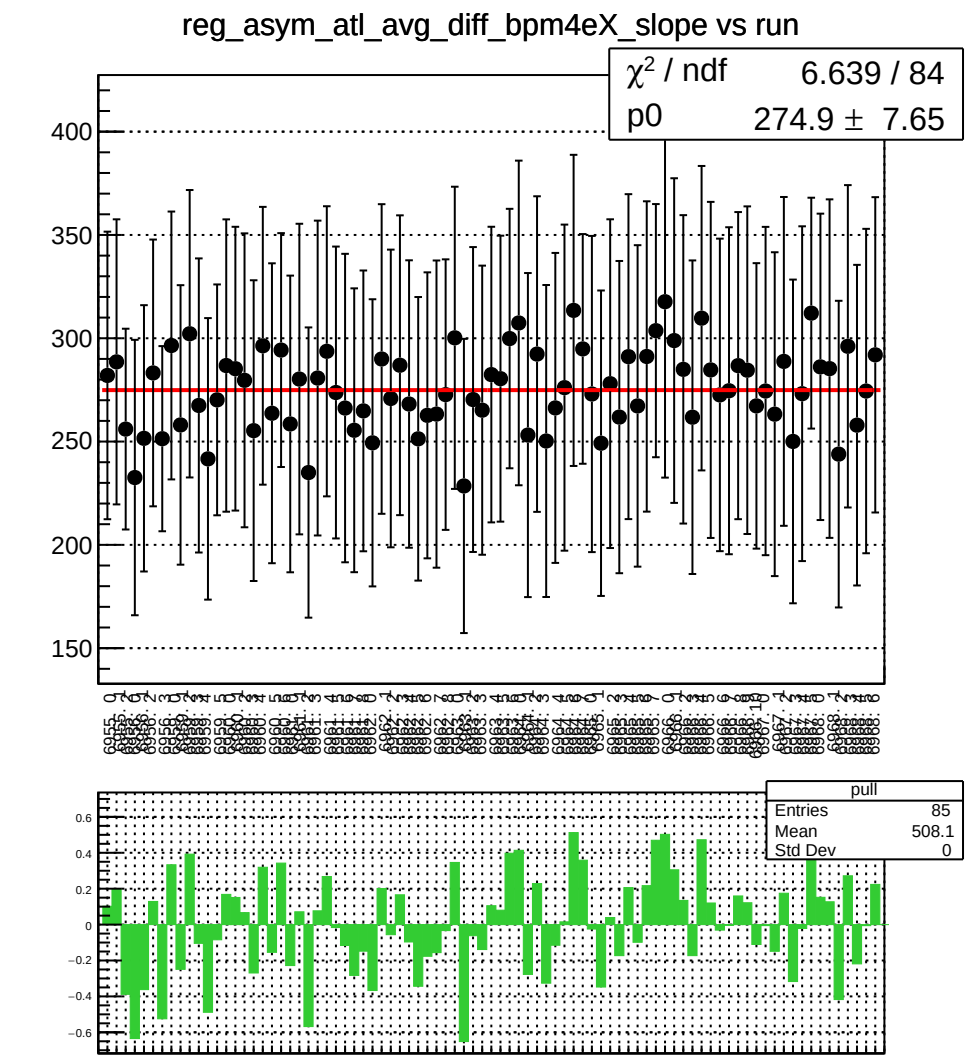

pull1D
Entries 85
Mean −0.008712
Std Dev 0.2386

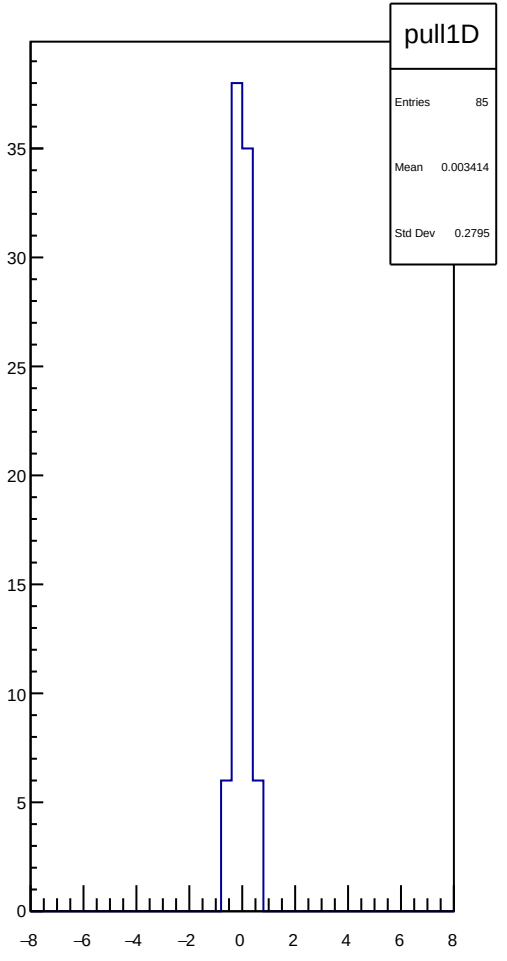

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 12.28 / 84
p0 −253.2 ± 0.4075
pull
Entries 85
Mean 218.5
Std Dev 0
pull1D
Entries 85
Mean −0.007641
Std Dev 0.3801

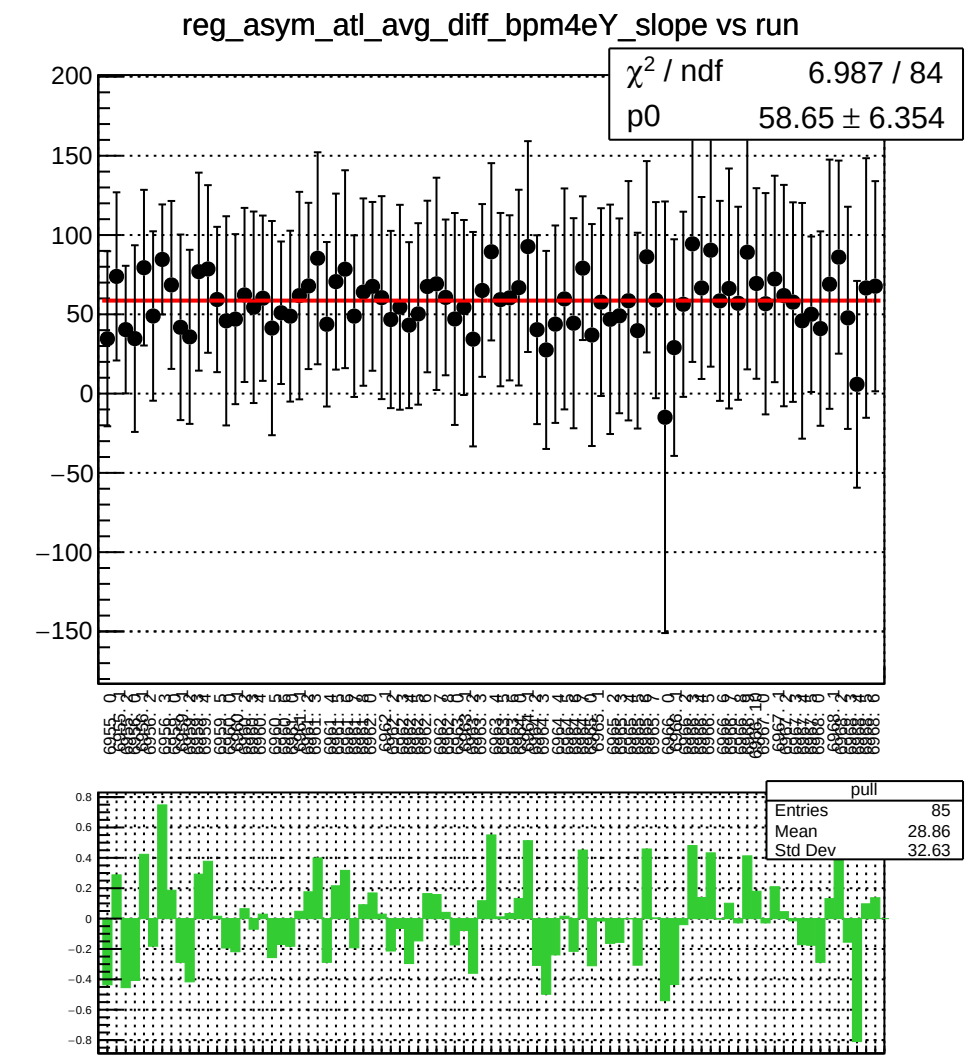

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 6.529 / 84
p0 −307.8 ± 8.28
−200
−250
−300
−350
−400
−450
pull
Entries 85
Mean 479.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

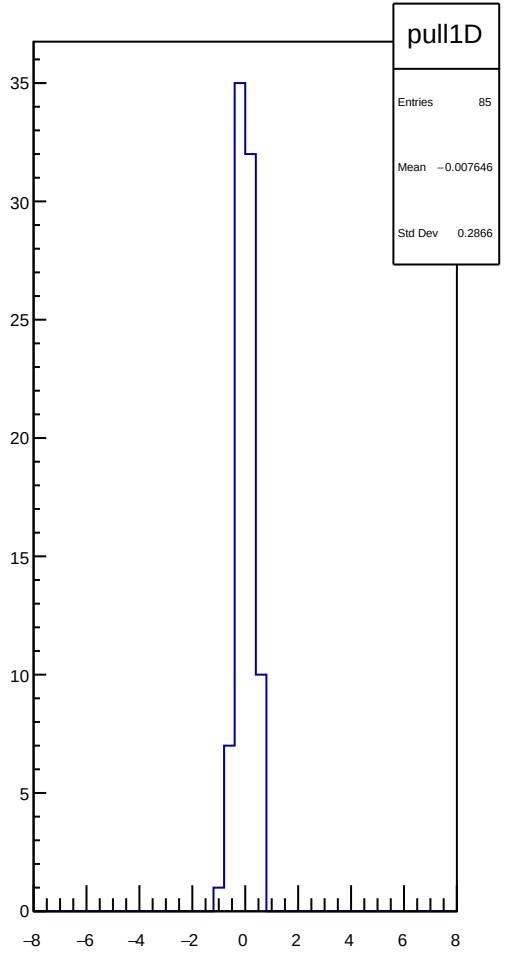

pull1D
Entries 85
Mean −0.003191
Std Dev 0.2771
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

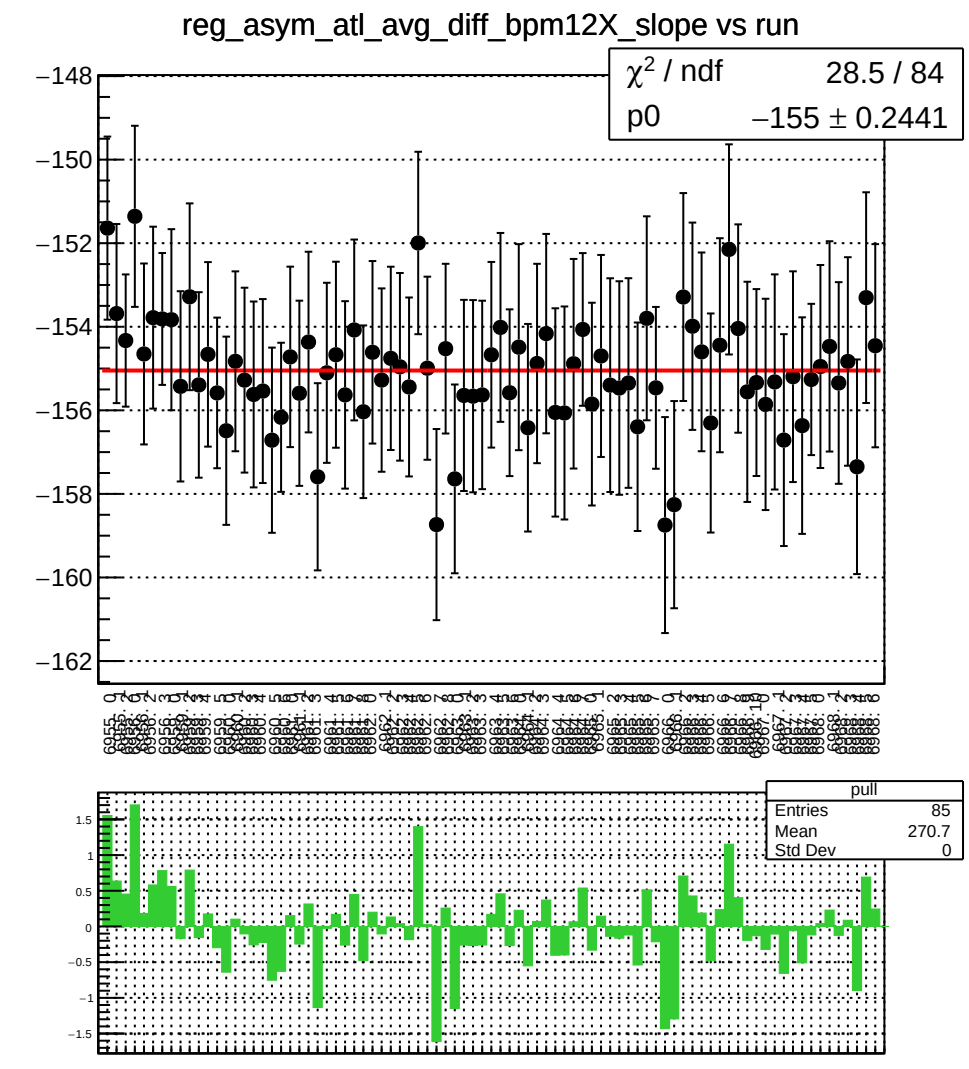

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.59 / 84
p0 12.03 ± 5.591
pull
Entries 85
Mean 27.6
Std Dev 24.12
pull1D
Entries 85
Mean 0.009227
Std Dev 0.2783

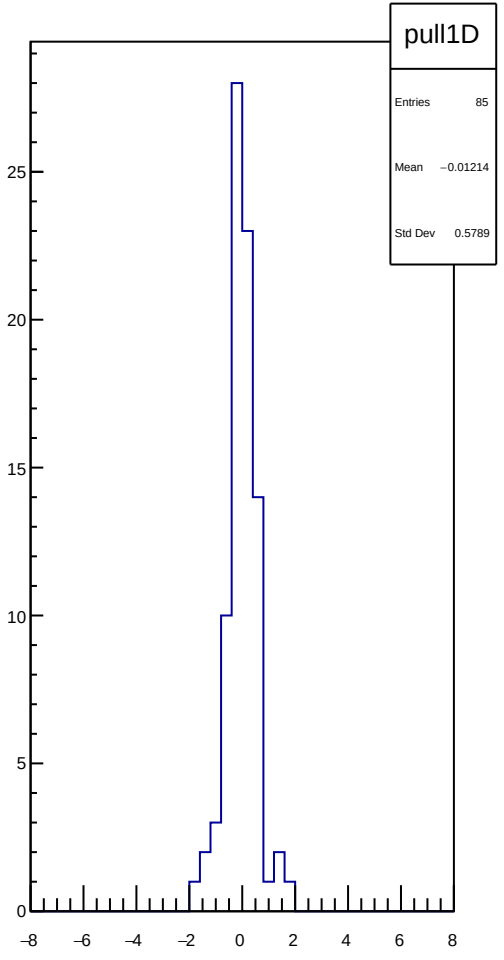

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.639 / 84
p0 274.9 ± 7.65
400
350
300
250
200
150
pull
Entries 85
Mean 508.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

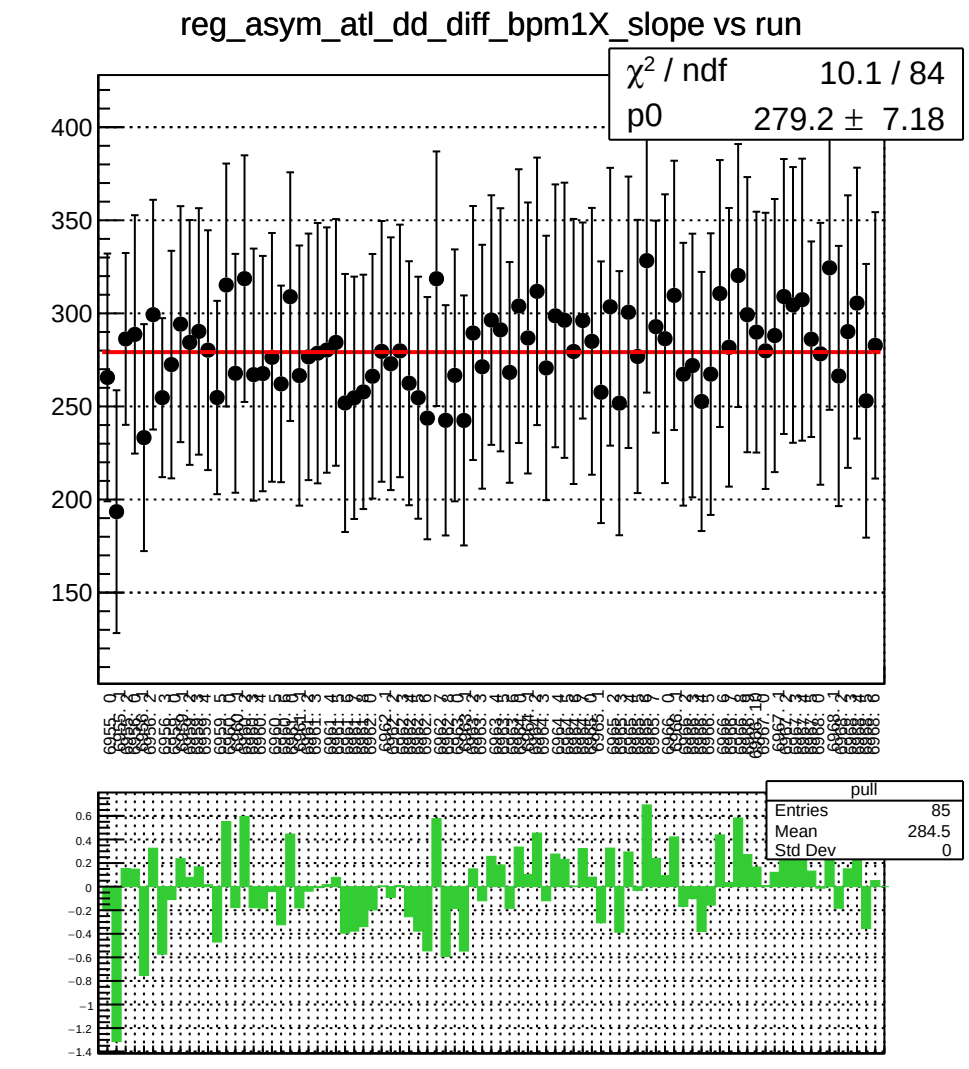

pull1D
Entries 85
Mean 0.003414
Std Dev 0.2795
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

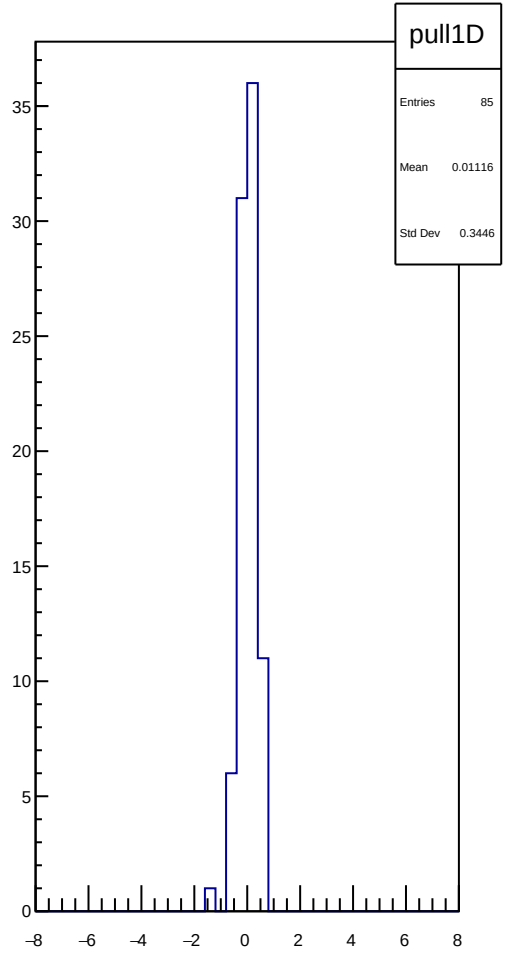

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.987 / 84
p0 58.65 ± 6.354
pull
Entries 85
Mean 28.86
Std Dev 32.63

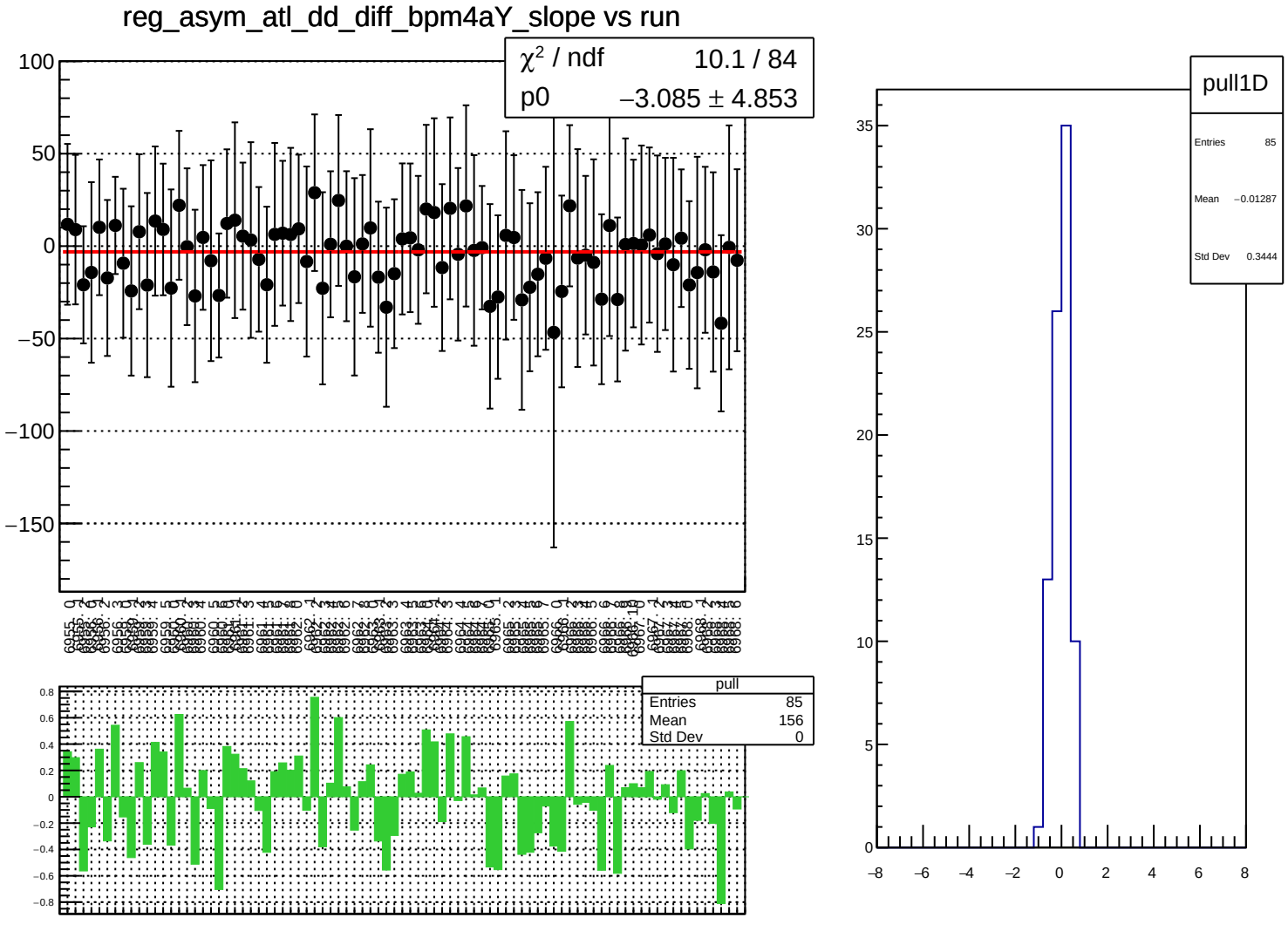

pull1D
Entries 85
Mean −0.007646
Std Dev 0.2866

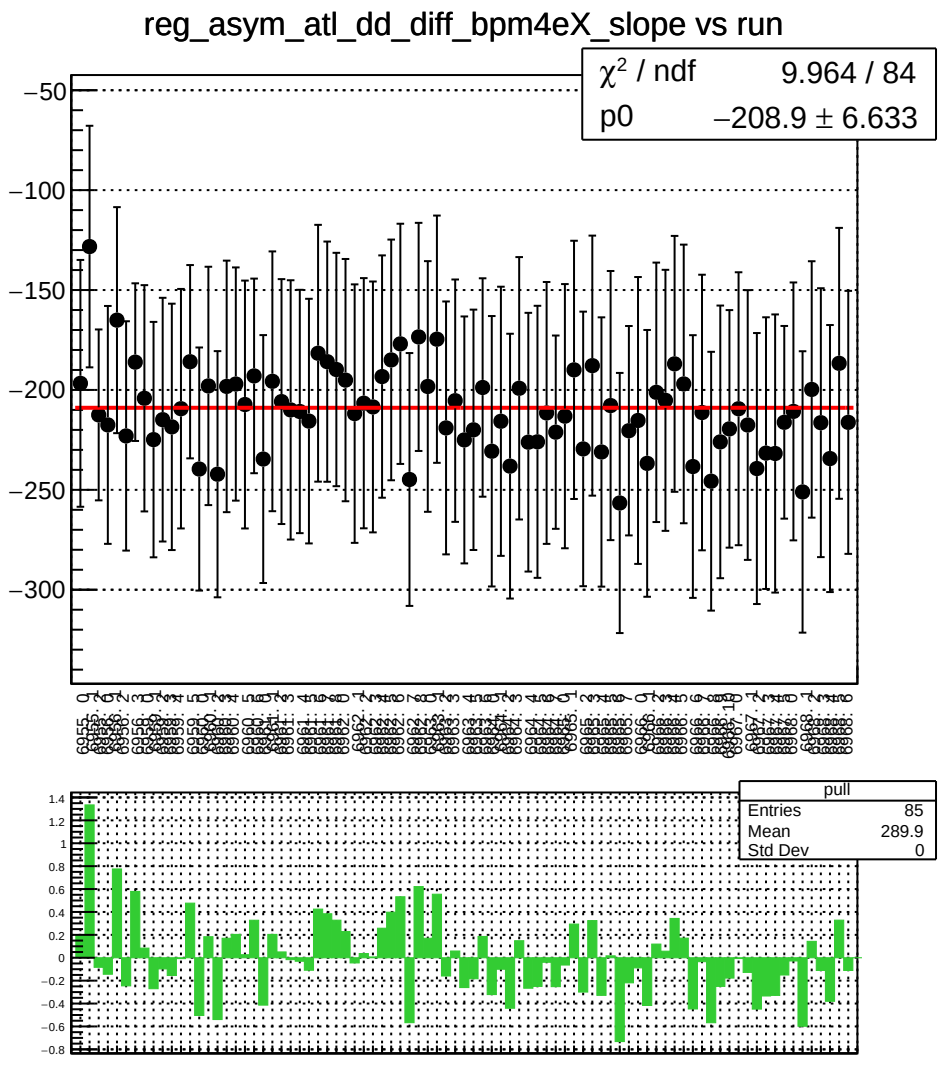

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 28.5 / 84
p0 −155 ± 0.2441
−148
−150
−152
−154
−156
−158
−160
−162
pull
Entries 85
Mean 270.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

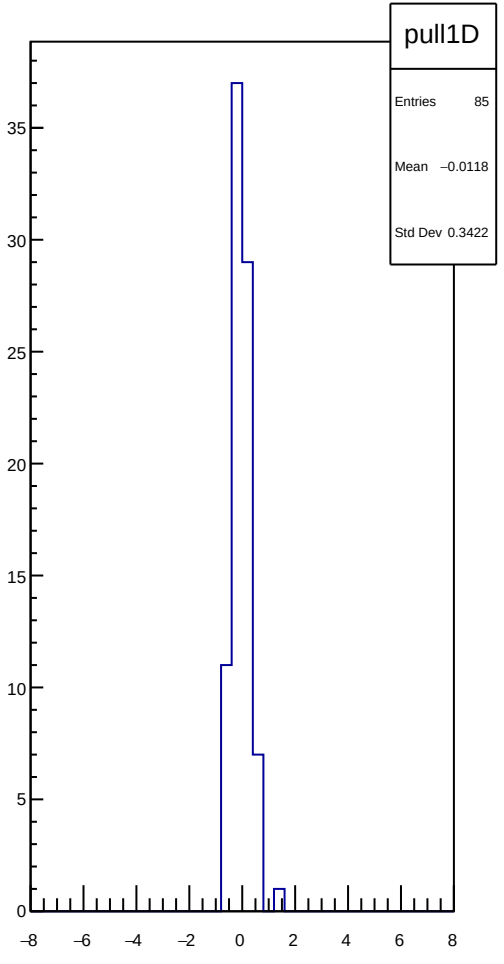

pull1D
Entries 85
Mean −0.01214
Std Dev 0.5789
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

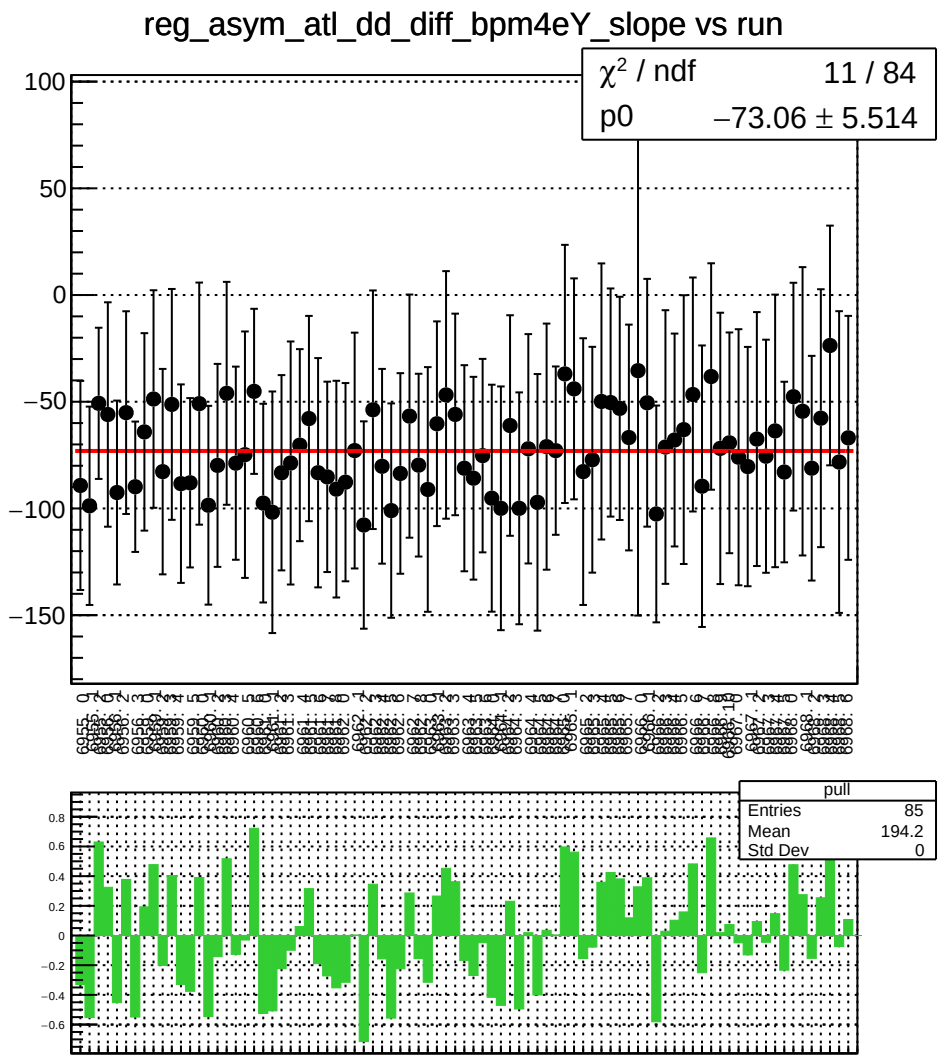

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 10.1 / 84
p0 279.2 ± 7.18
pull
Entries 85
Mean 284.5
Std Dev 0

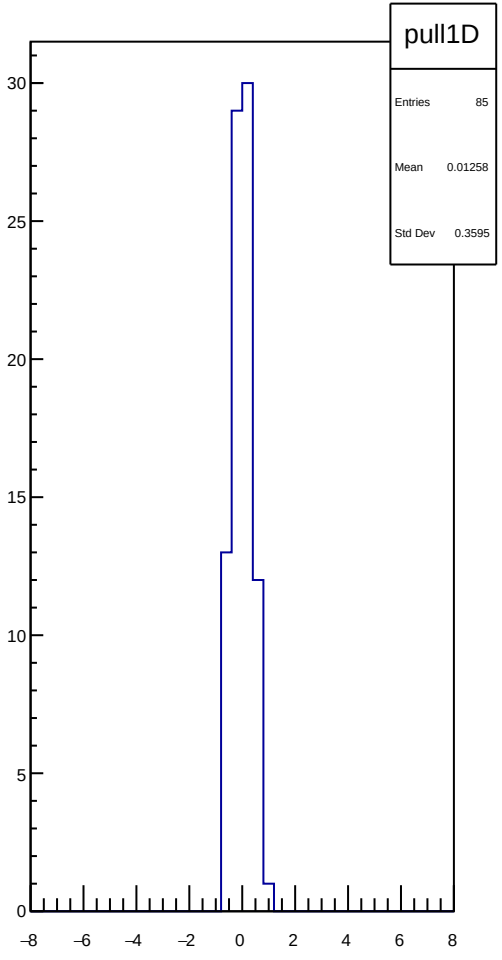

pull1D
Entries 85
Mean 0.01116
Std Dev 0.3446

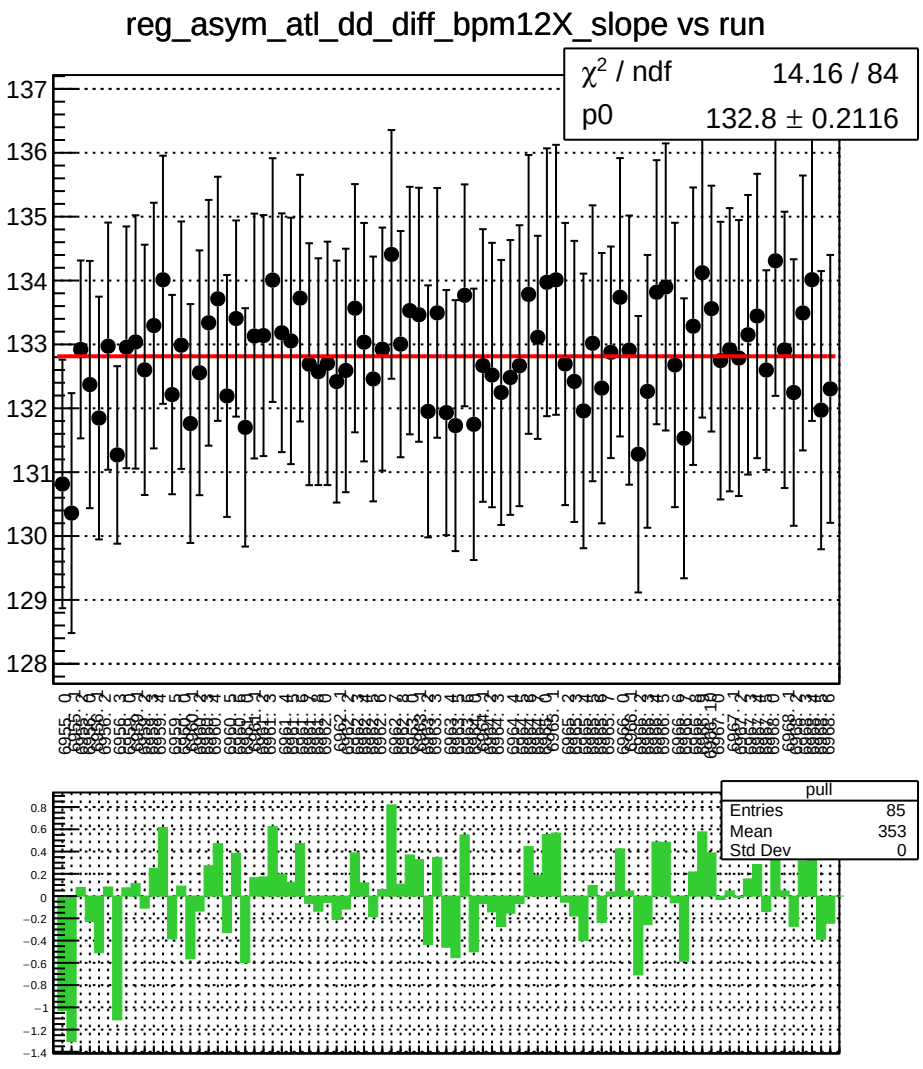

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.1 / 84
p0 −3.085 ± 4.853
pull
Entries 85
Mean 156
Std Dev 0
pull1D
Entries 85
Mean −0.01287
Std Dev 0.3444

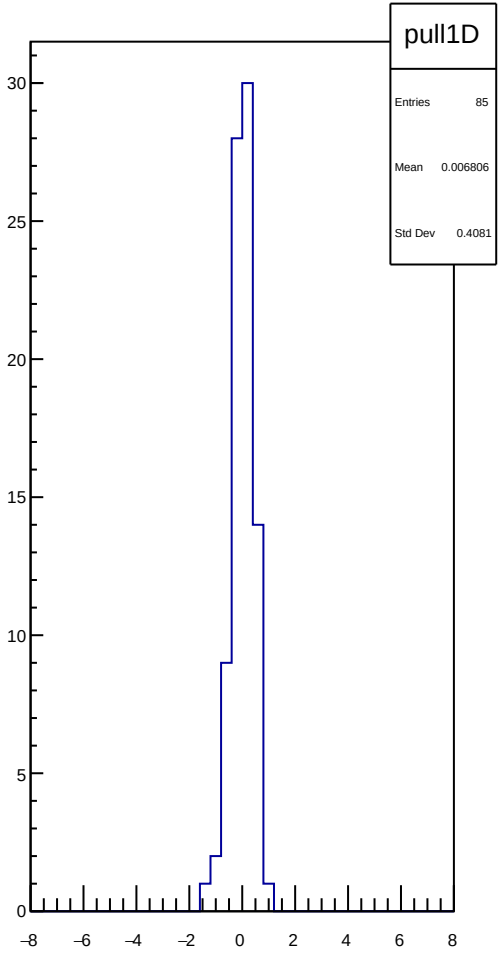

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.964 / 84
p0 −208.9 ± 6.633
pull
Entries 85
Mean 289.9
Std Dev 0

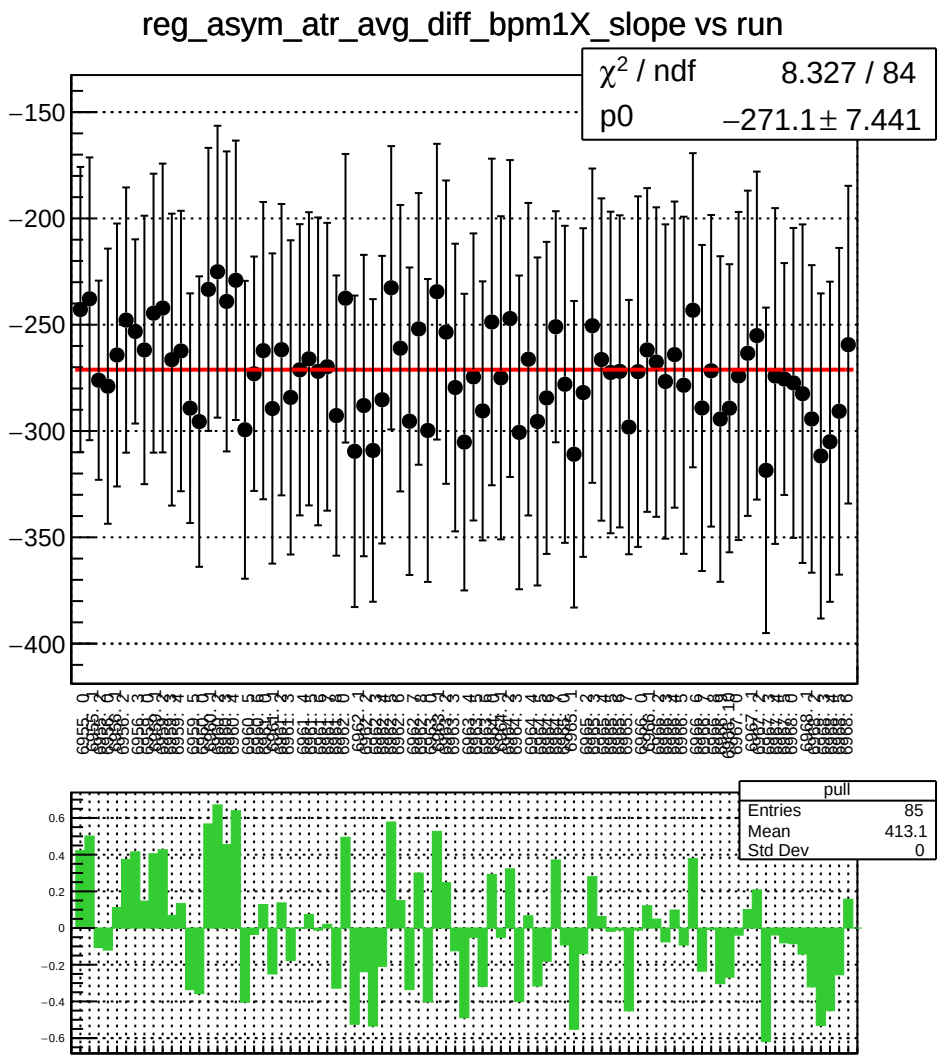

pull1D
Entries 85
Mean −0.0118
Std Dev 0.3422

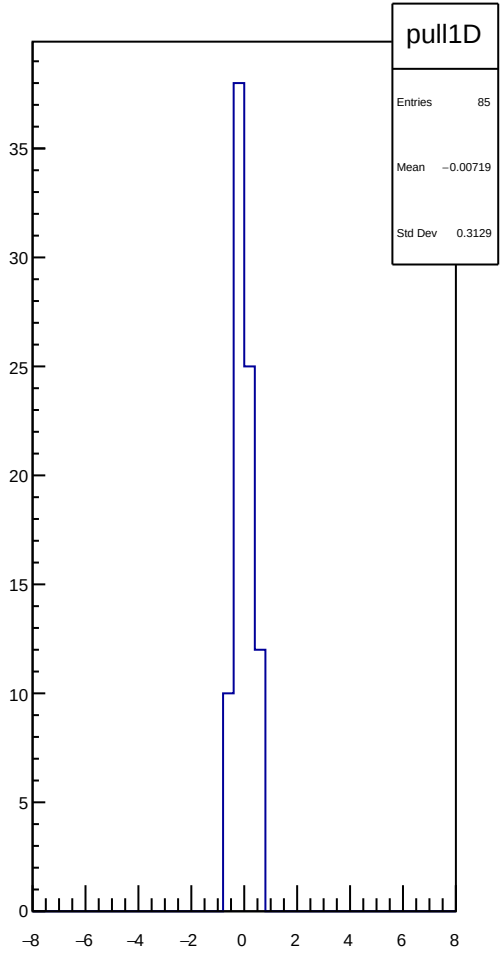

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11 / 84
p0 −73.06 ± 5.514
pull
Entries 85
Mean 194.2
Std Dev 0

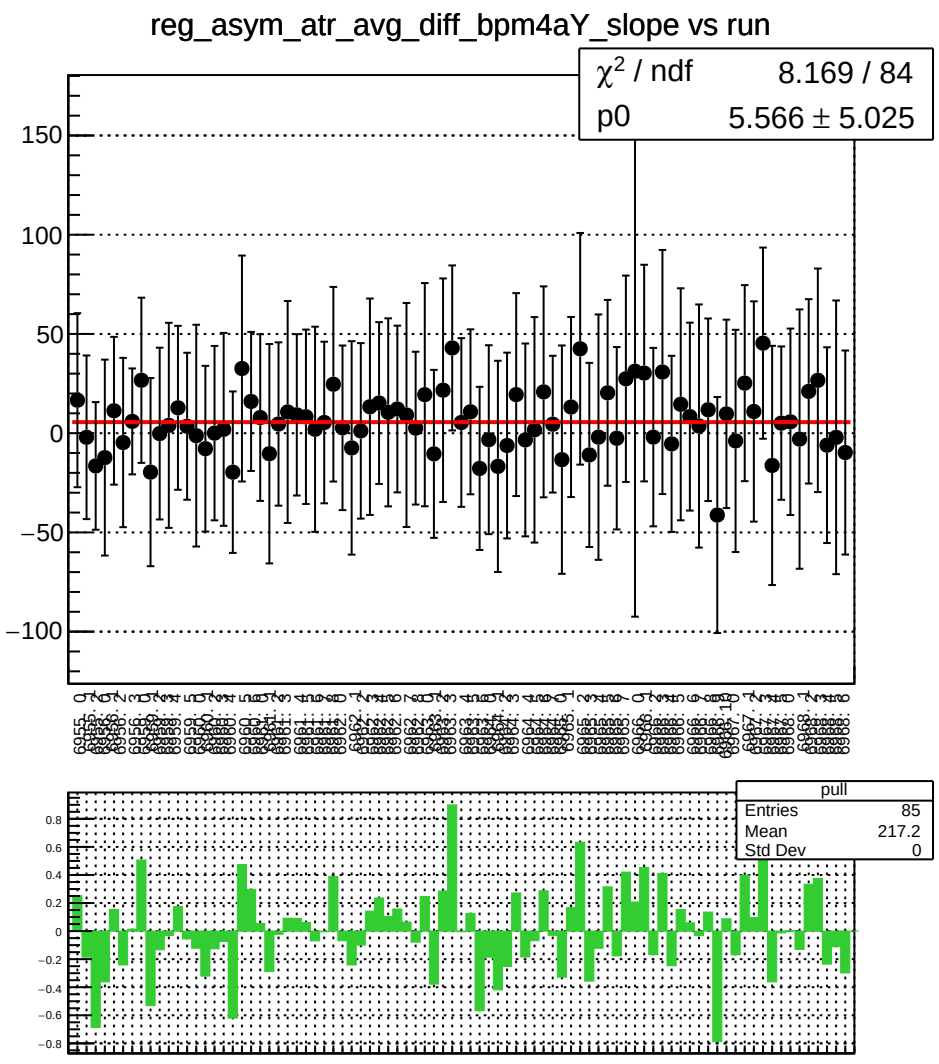

pull1D
Entries 85
Mean 0.01258
Std Dev 0.3595

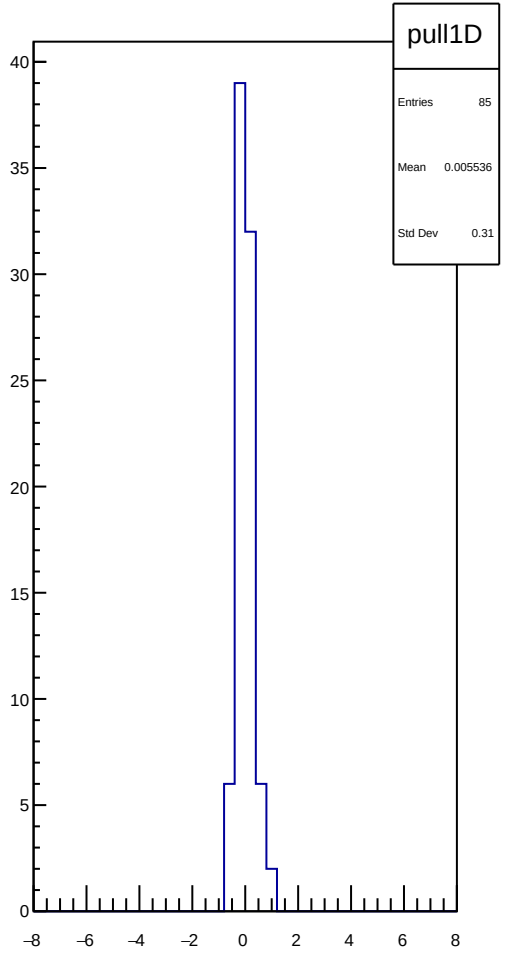

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 14.16 / 84
p0 132.8 ± 0.2116
pull
Entries 85
Mean 353
Std Dev 0

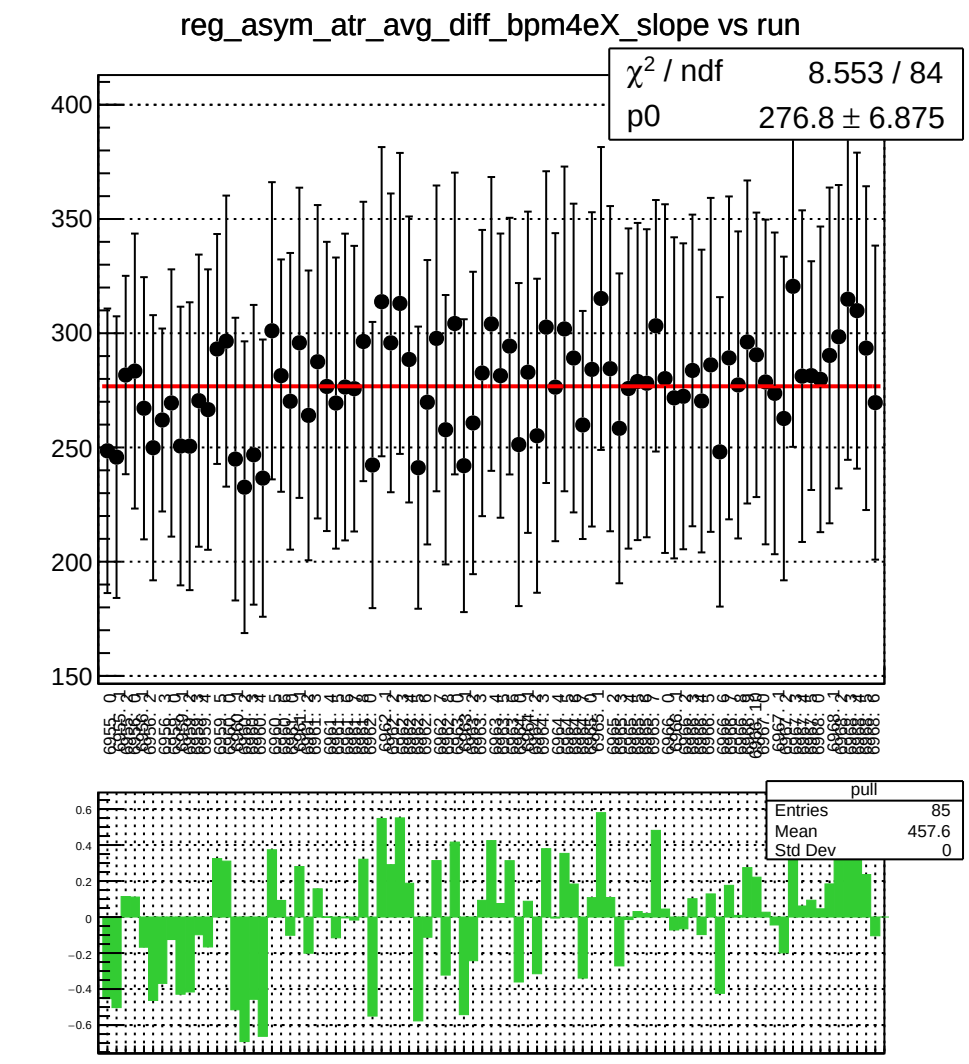

pull1D
Entries 85
Mean 0.006806
Std Dev 0.4081

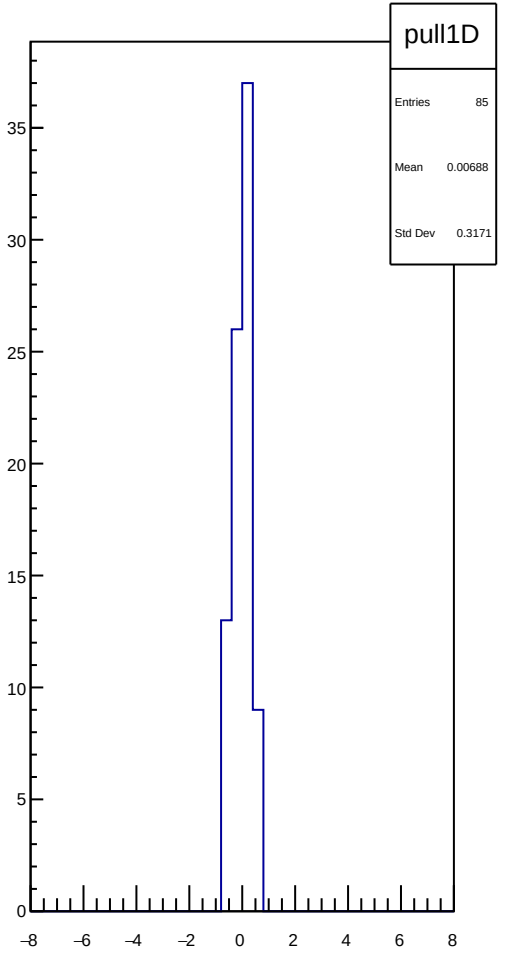

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 8.327 / 84
p0 −271.1 ± 7.441
−150
−200
−250
−300
−350
−400
pull
Entries 85
Mean 413.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

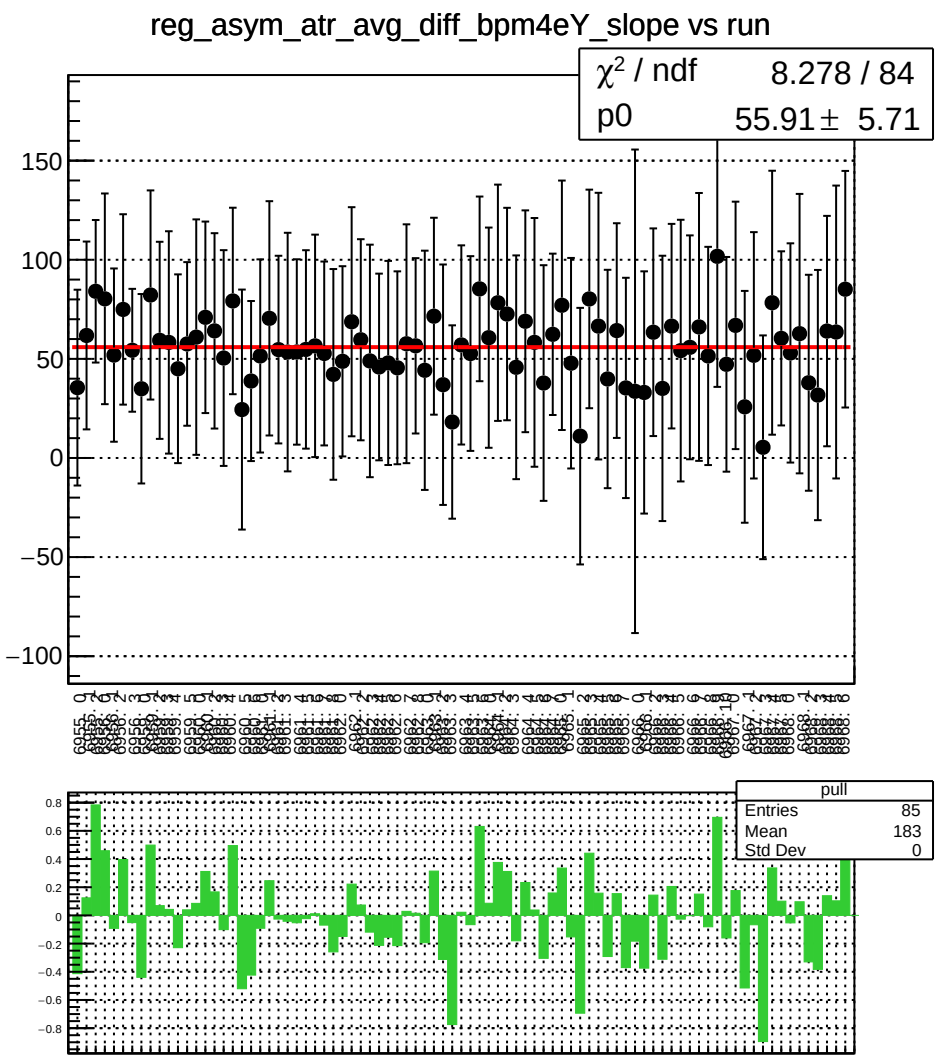

pull1D
Entries 85
Mean −0.00719
Std Dev 0.3129
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

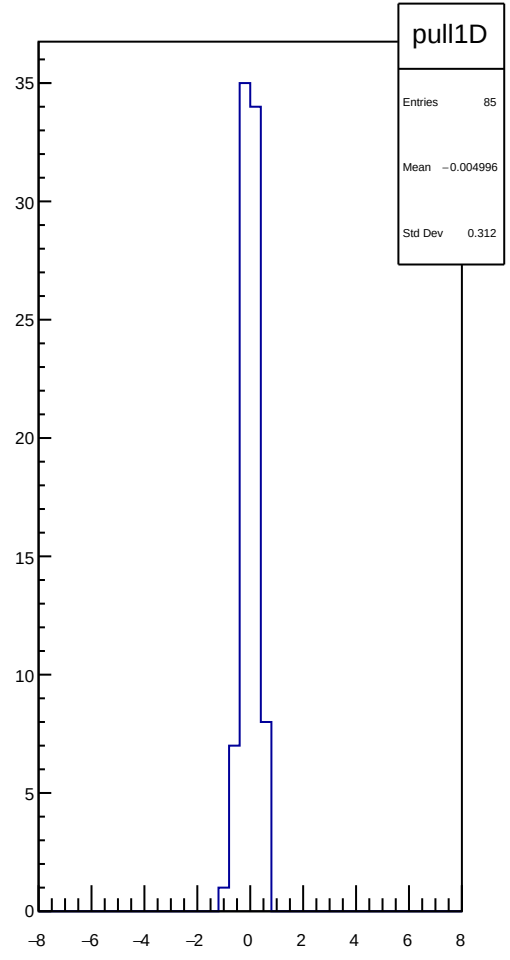

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.169 / 84
p0 5.566 ± 5.025
150
100
50
0
−50
−100
pull
Entries 85
Mean 217.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

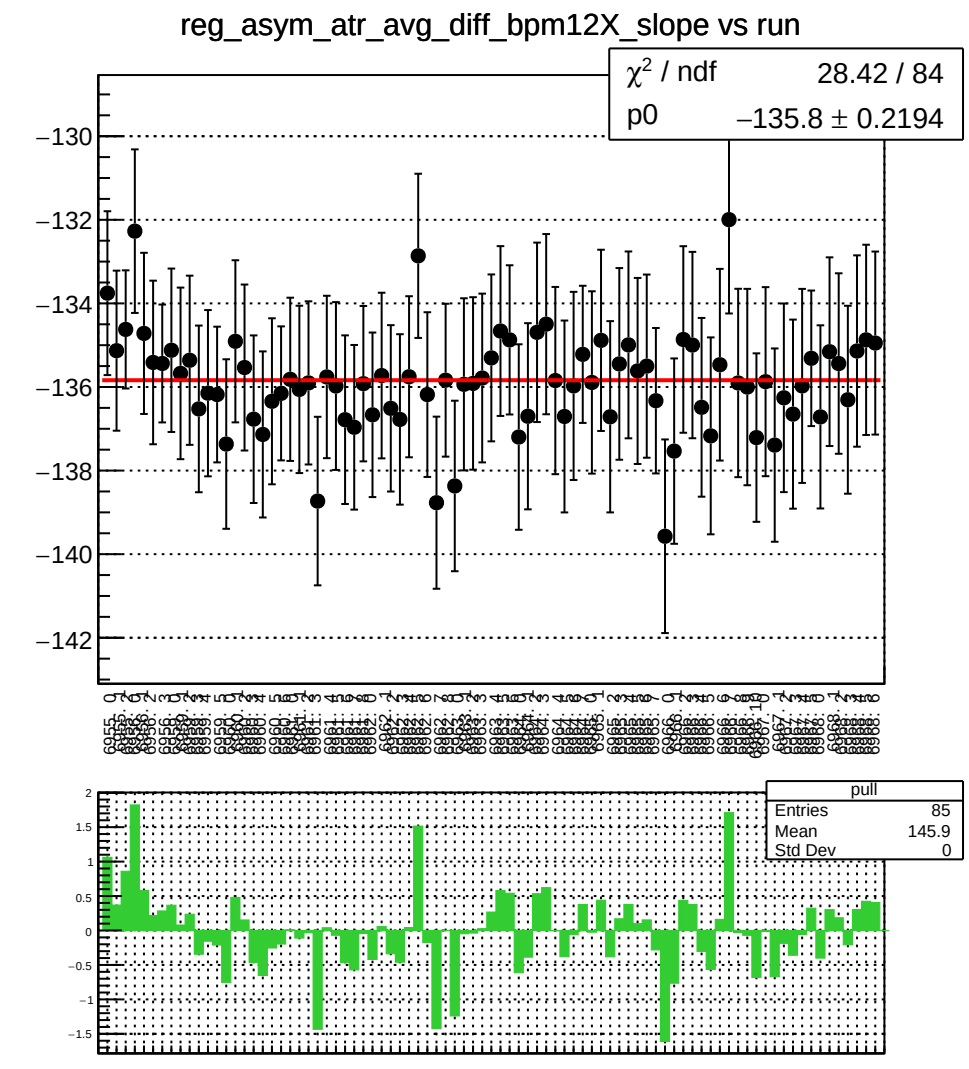

pull1D
Entries 85
Mean 0.005536
Std Dev 0.31
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

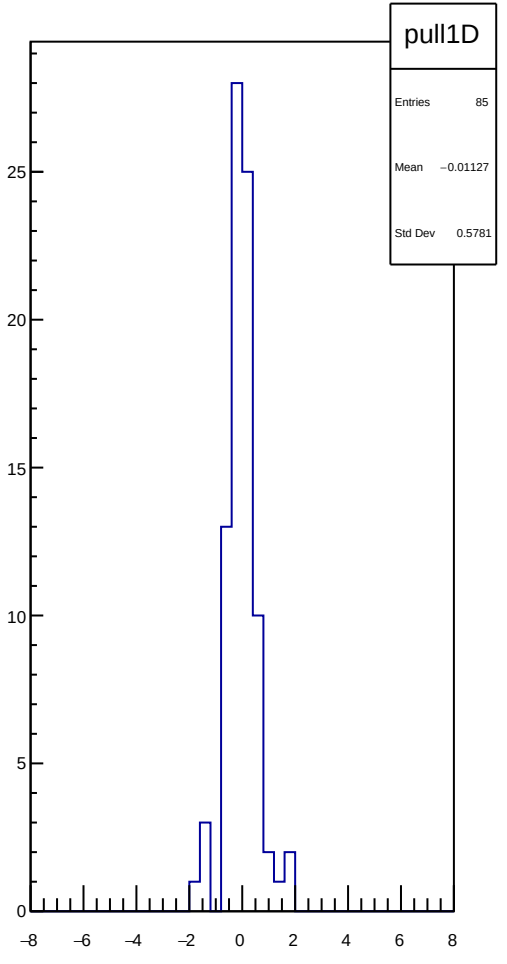

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.553 / 84
p0 276.8 ± 6.875
400
350
300
250
200
150
pull
Entries 85
Mean 457.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

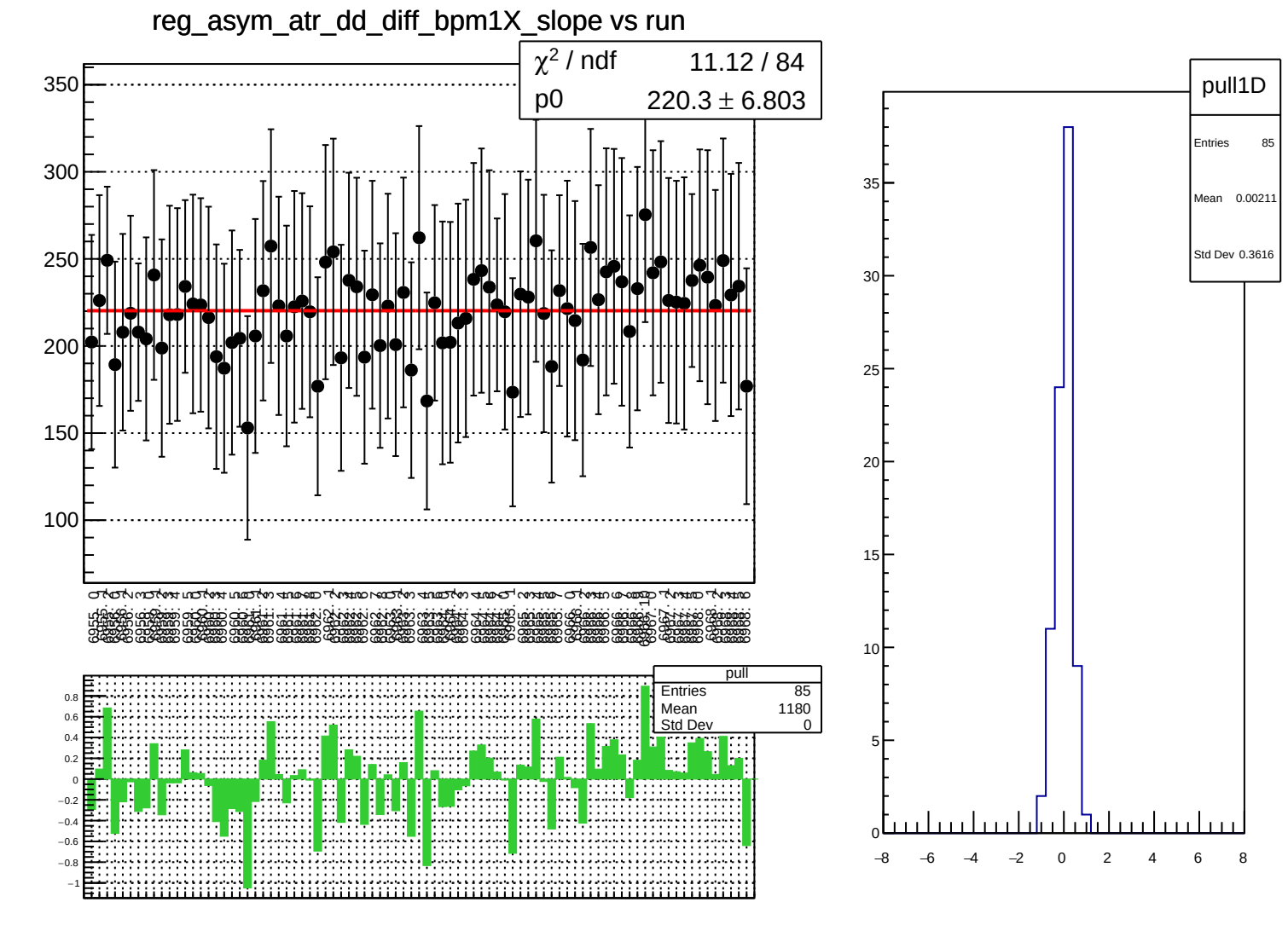

pull1D
Entries 85
Mean 0.00688
Std Dev 0.3171
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

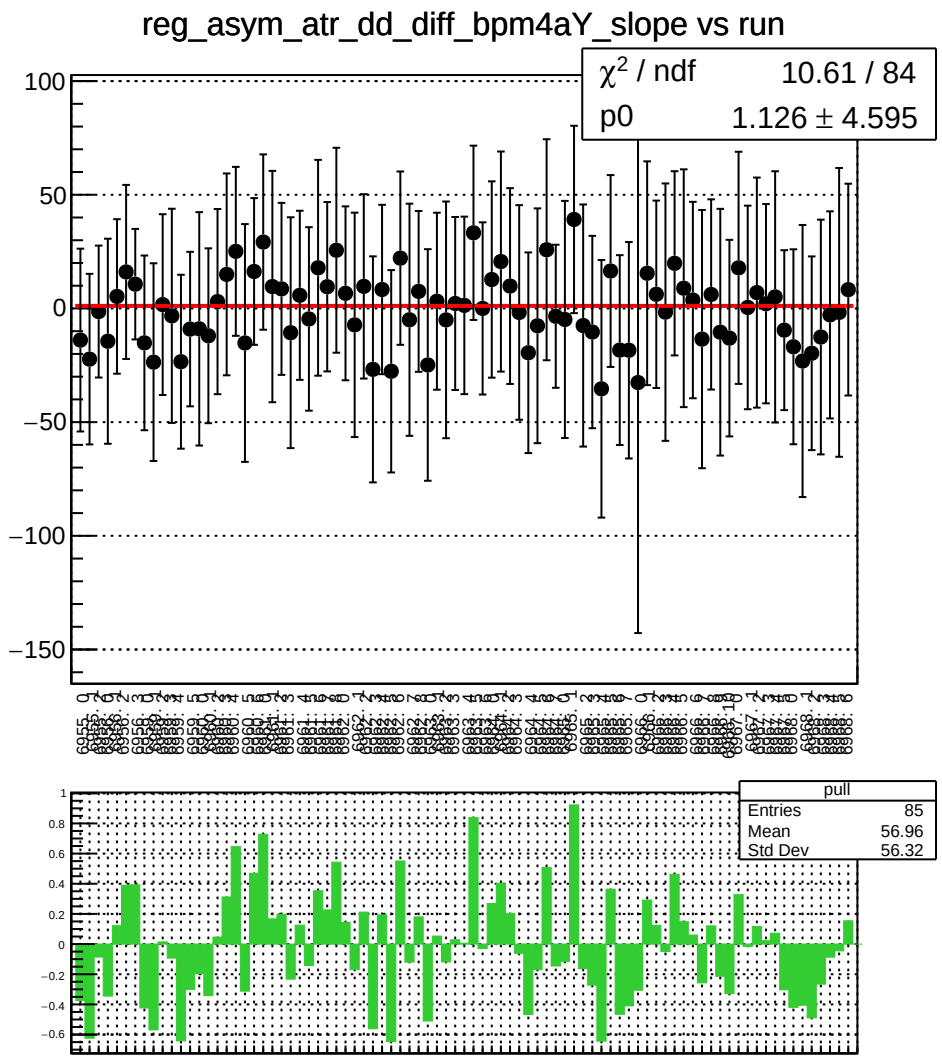

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.278 / 84
p0 55.91 ± 5.71
150
100
50
0
−50
−100
pull
Entries 85
Mean 183
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

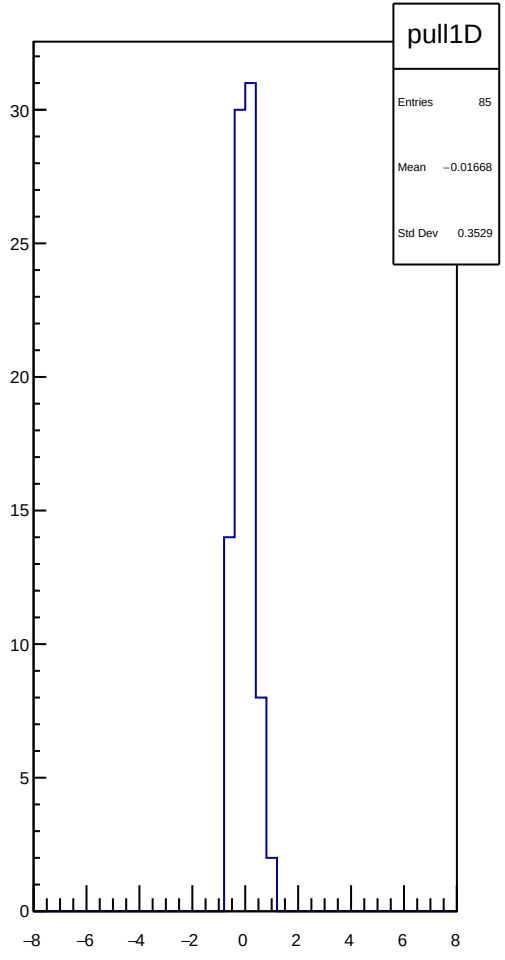

pull1D
Entries 85
Mean −0.004996
Std Dev 0.312
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

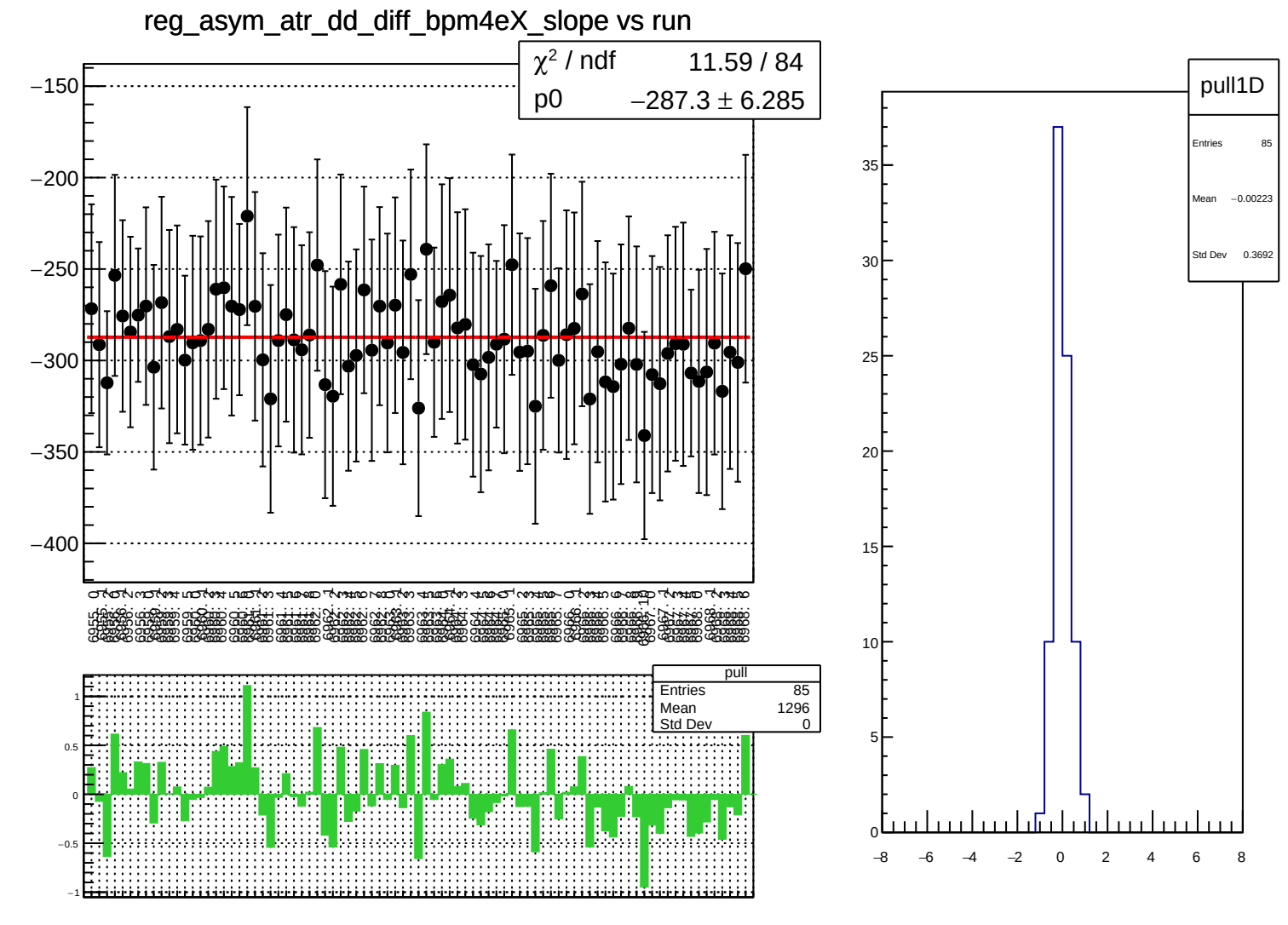

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 28.42 / 84
p0 −135.8 ± 0.2194
−130
−132
−134
−136
−138
−140
−142
pull
Entries 85
Mean 145.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

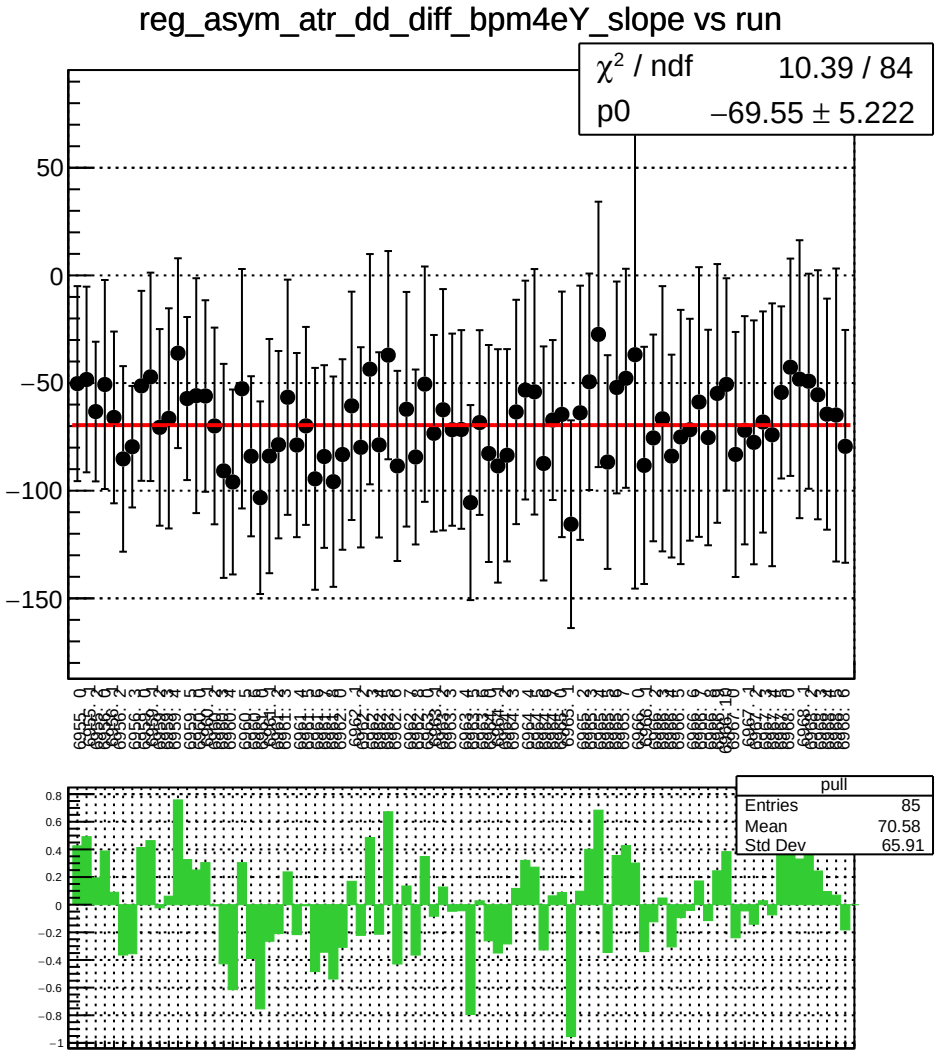

pull1D
Entries 85
Mean −0.01127
Std Dev 0.5781
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

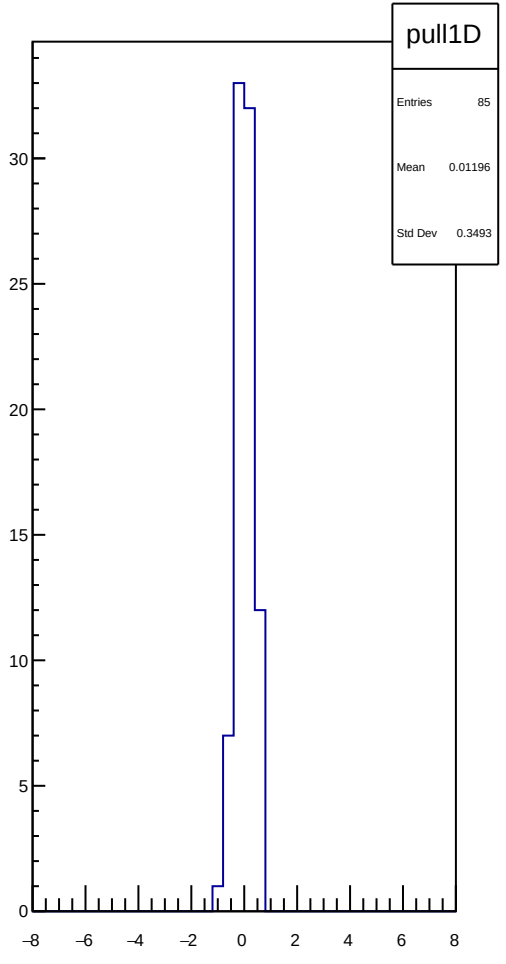

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 11.12 / 84
p0 220.3 ± 6.803
pull
Entries 85
Mean 1180
Std Dev 0
pull1D
Entries 85
Mean 0.00211
Std Dev 0.3616

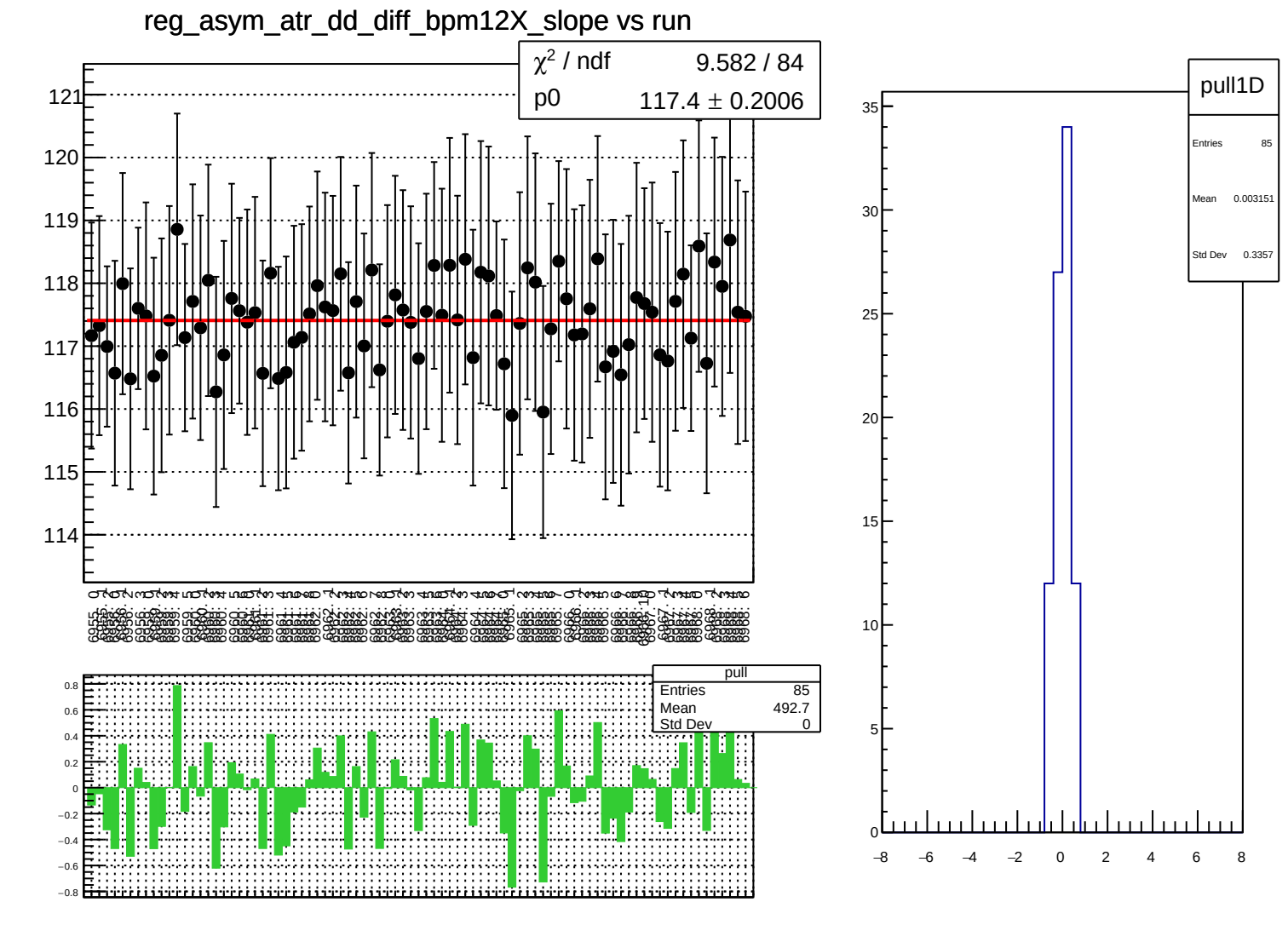

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.61 / 84
p0 1.126 ± 4.595
pull
Entries 85
Mean 56.96
Std Dev 56.32

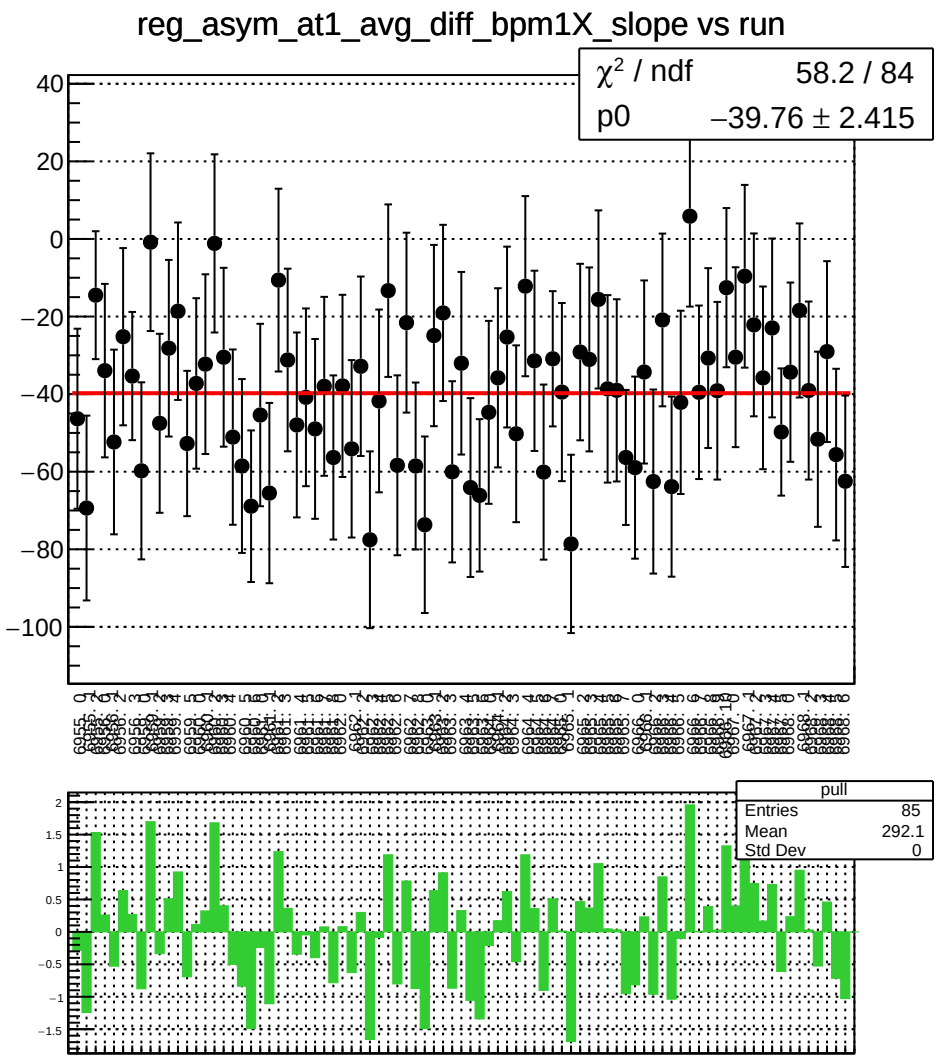

pull1D
Entries 85
Mean −0.01668
Std Dev 0.3529

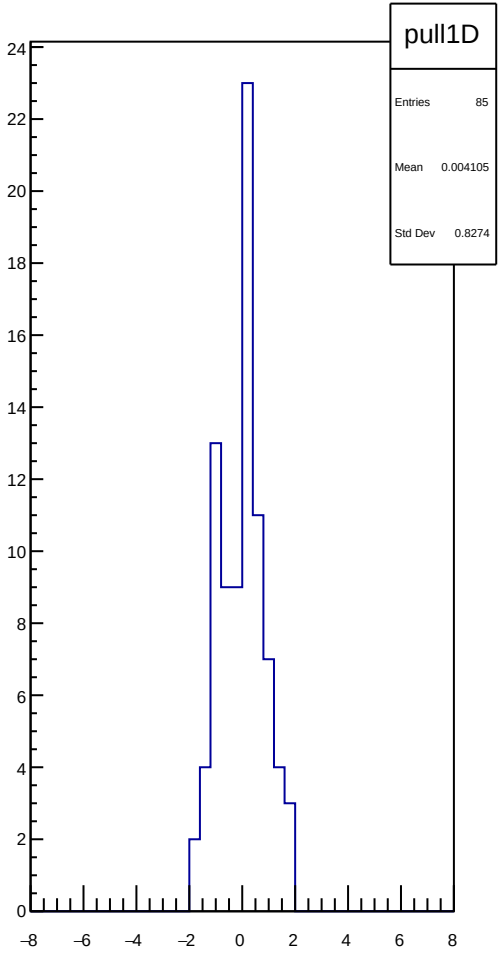

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.59 / 84
p0 −287.3 ± 6.285
−150
−200
−250
−300
−350
−400
pull
Entries 85
Mean 1296
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.00223
Std Dev 0.3692
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

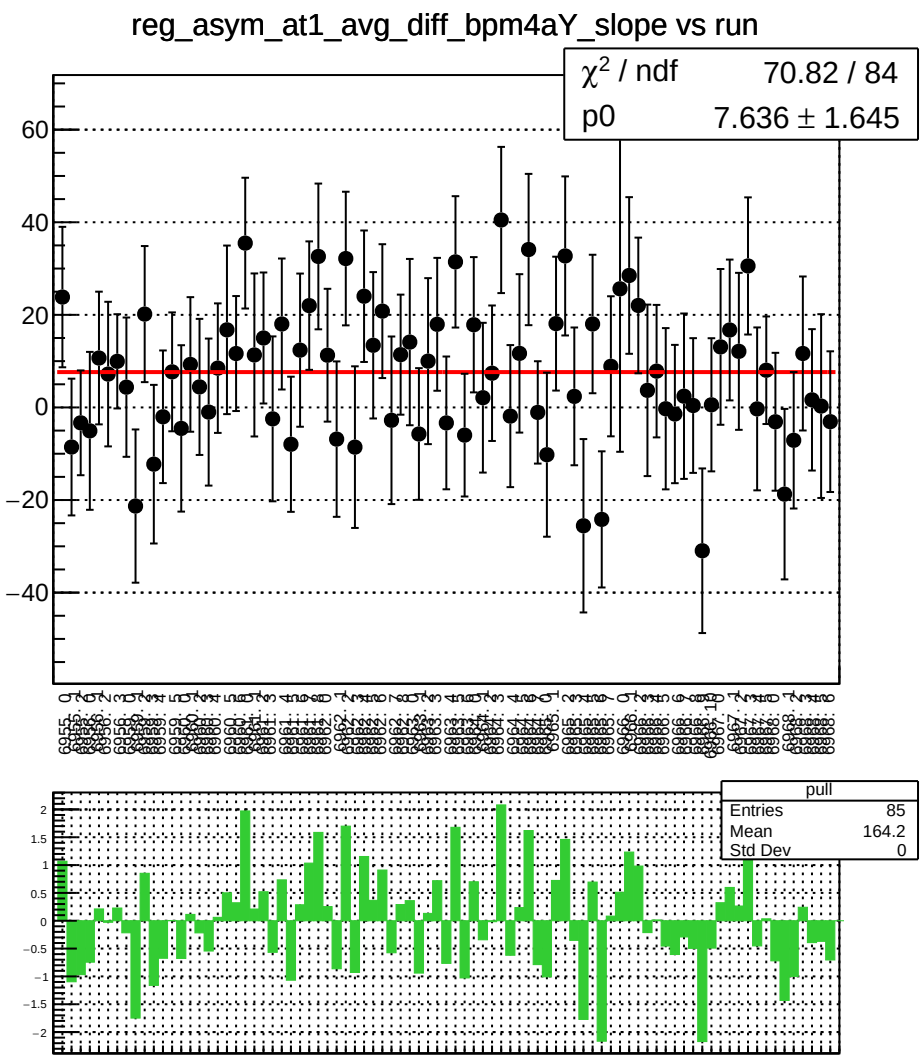

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.39 / 84
p0 −69.55 ± 5.222
50
0
−50
−100
−150
pull
Entries 85
Mean 70.58
Std Dev 65.91
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

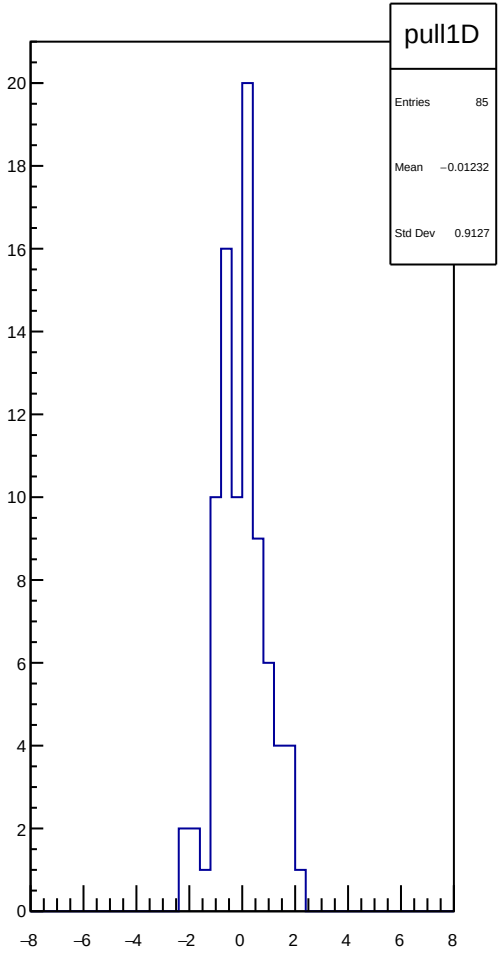

pull1D
Entries 85
Mean 0.01196
Std Dev 0.3493
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

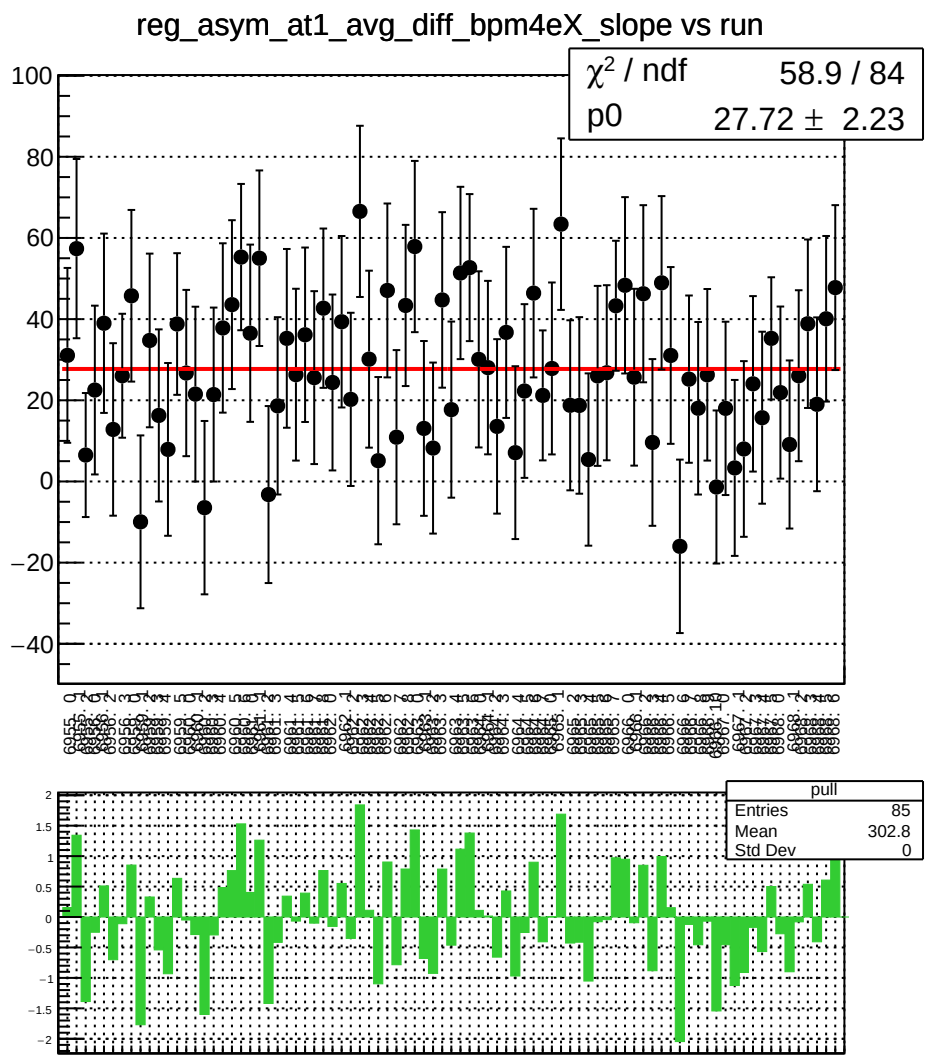

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 9.582 / 84
p0 117.4 ± 0.2006
pull
Entries 85
Mean 492.7
Std Dev 0
pull1D
Entries 85
Mean 0.003151
Std Dev 0.3357

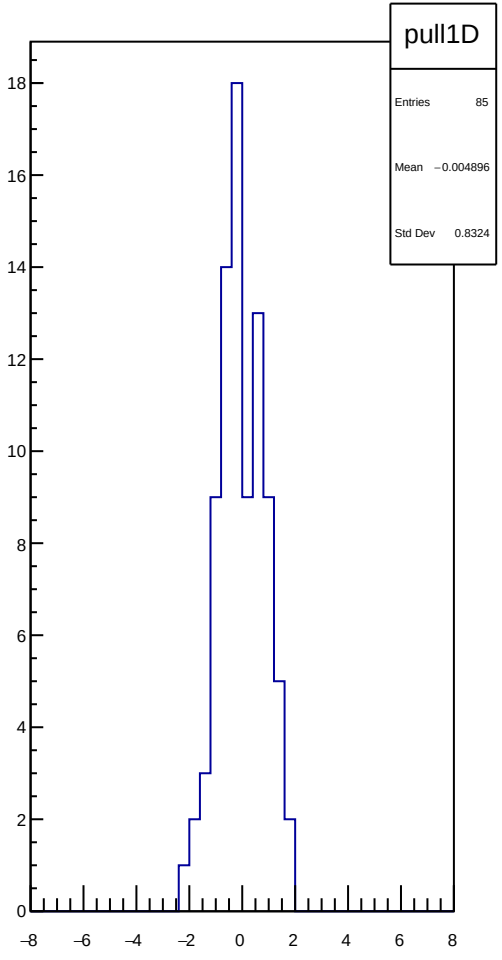

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 58.2 / 84
p0 −39.76 ± 2.415
pull
Entries 85
Mean 292.1
Std Dev 0

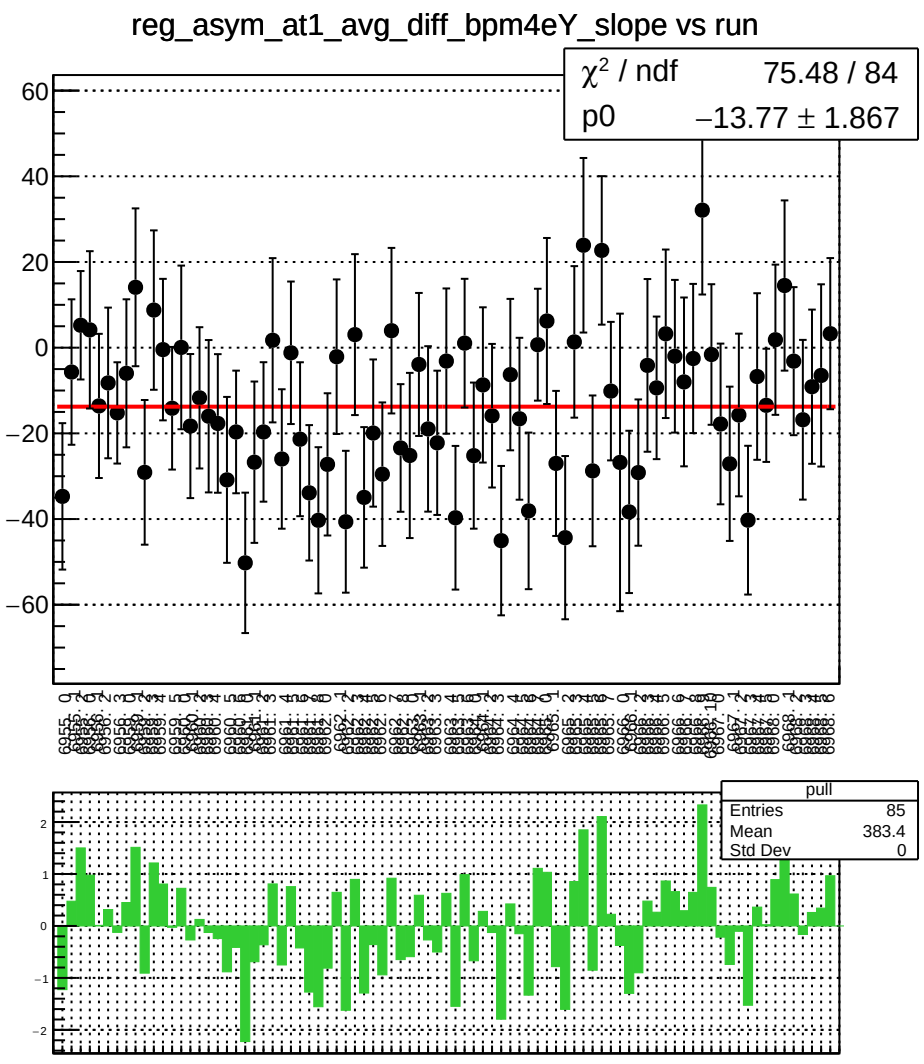

pull1D
Entries 85
Mean 0.004105
Std Dev 0.8274

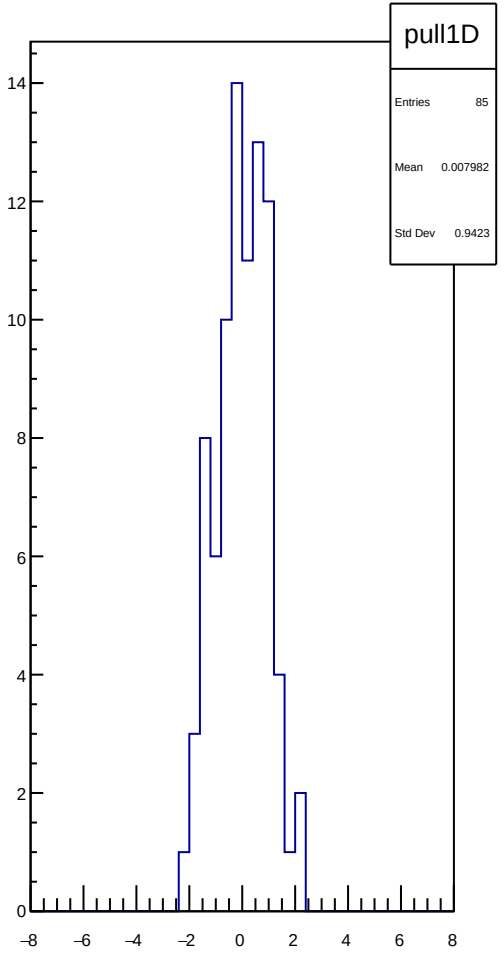

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 70.82 / 84
p0 7.636 ± 1.645
pull
Entries 85
Mean 164.2
Std Dev 0

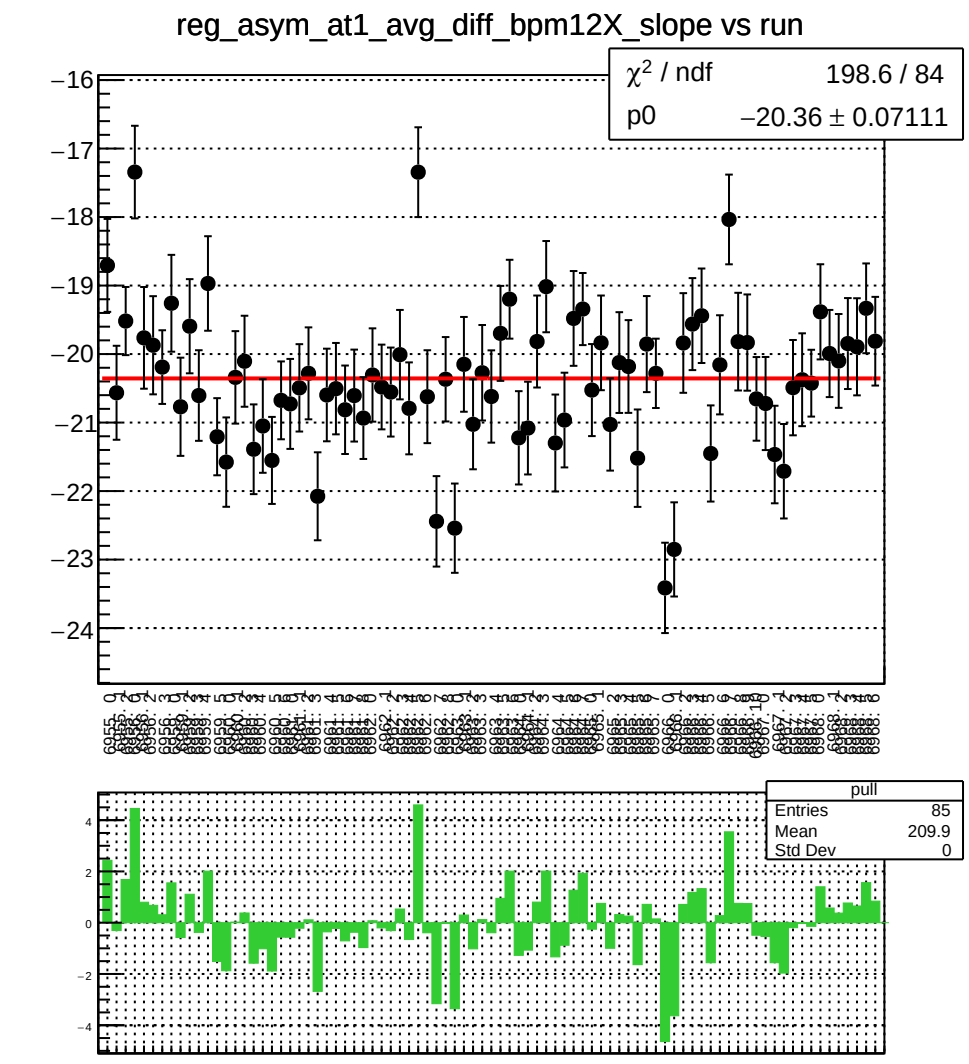

pull1D
Entries 85
Mean −0.01232
Std Dev 0.9127

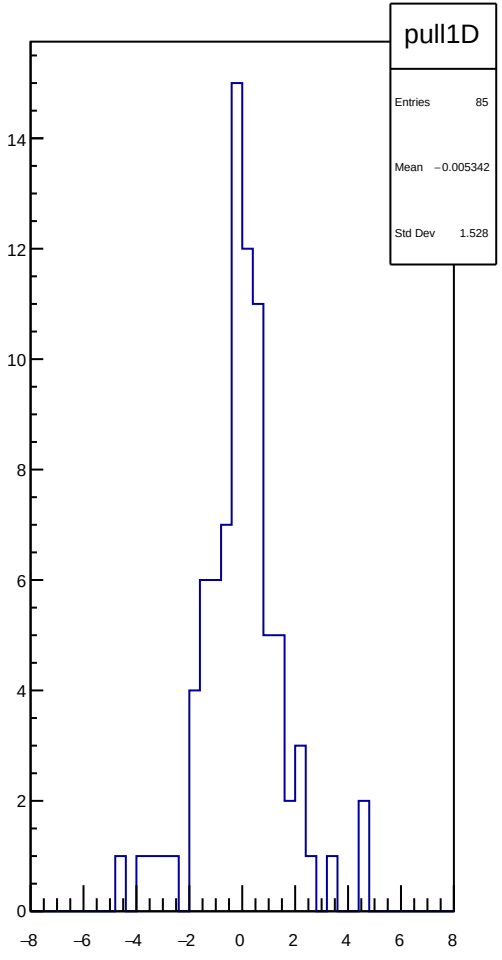

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.9 / 84
p0 27.72 ± 2.23
pull
Entries 85
Mean 302.8
Std Dev 0

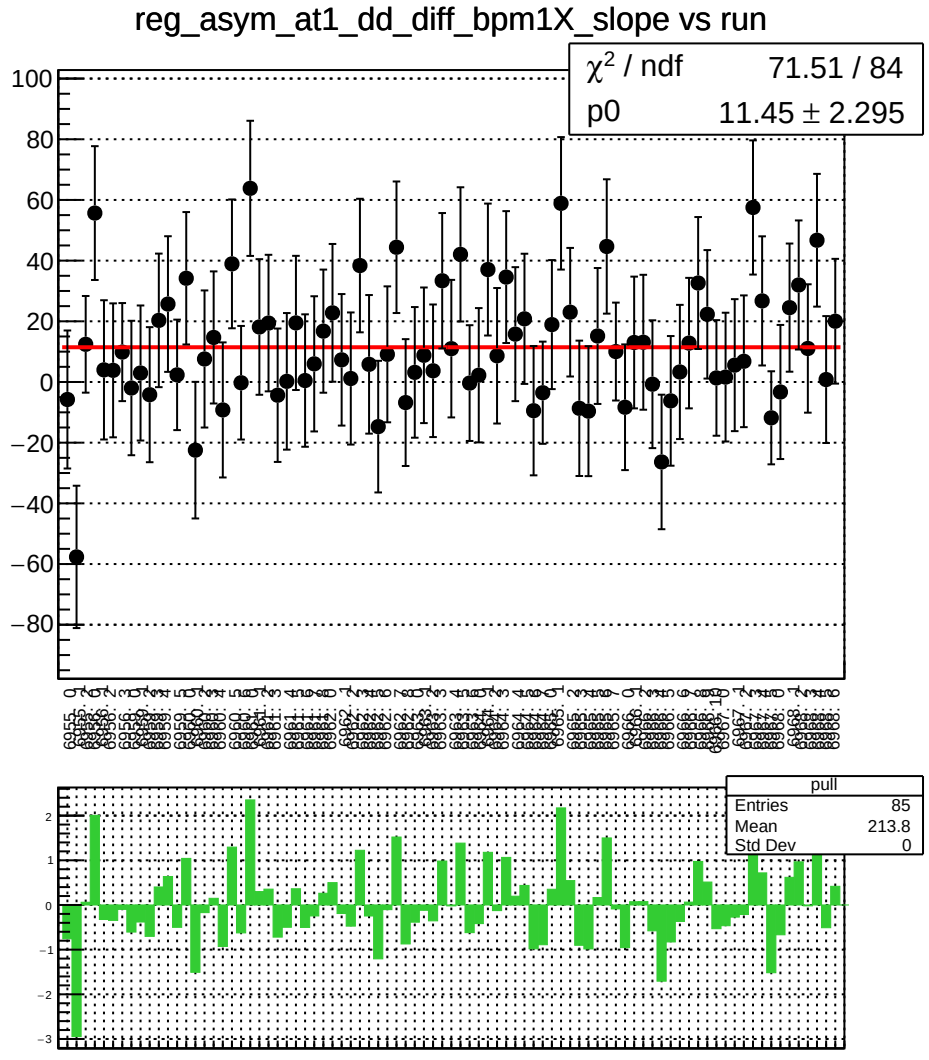

pull1D
Entries 85
Mean −0.004896
Std Dev 0.8324

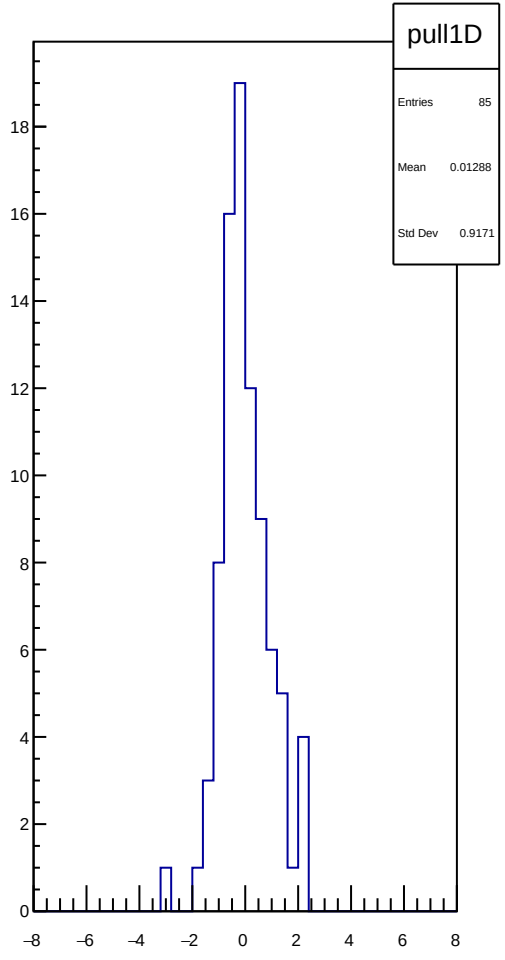

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.48 / 84
p0 −13.77 ± 1.867
pull
Entries 85
Mean 383.4
Std Dev 0

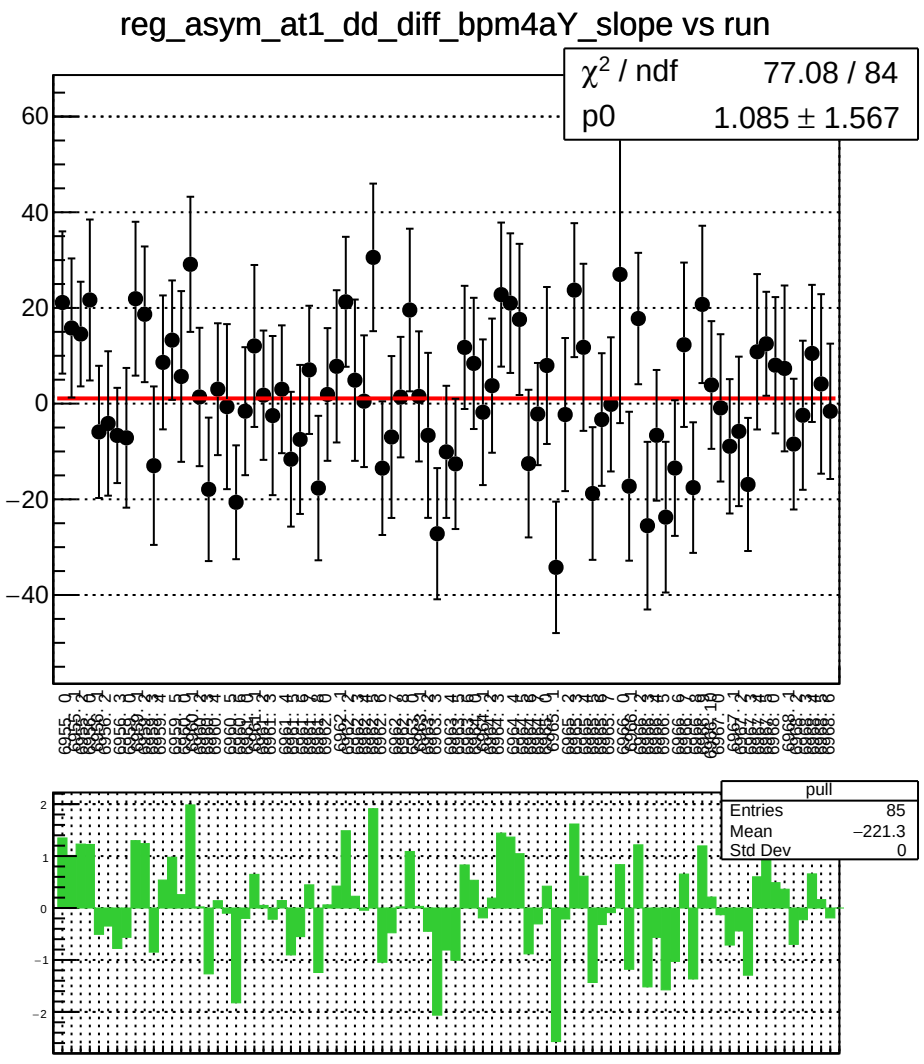

pull1D
Entries 85
Mean 0.007982
Std Dev 0.9423

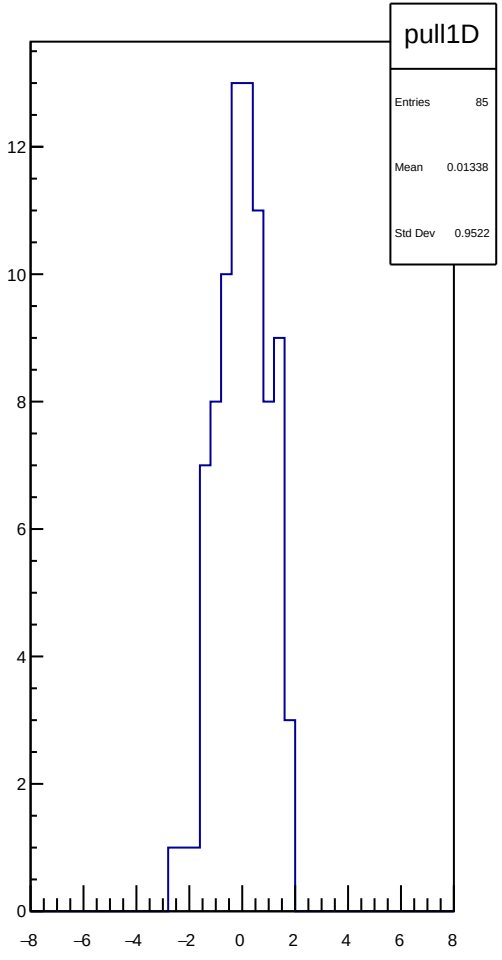

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 198.6 / 84
p0 −20.36 ± 0.07111
pull
Entries 85
Mean 209.9
Std Dev 0

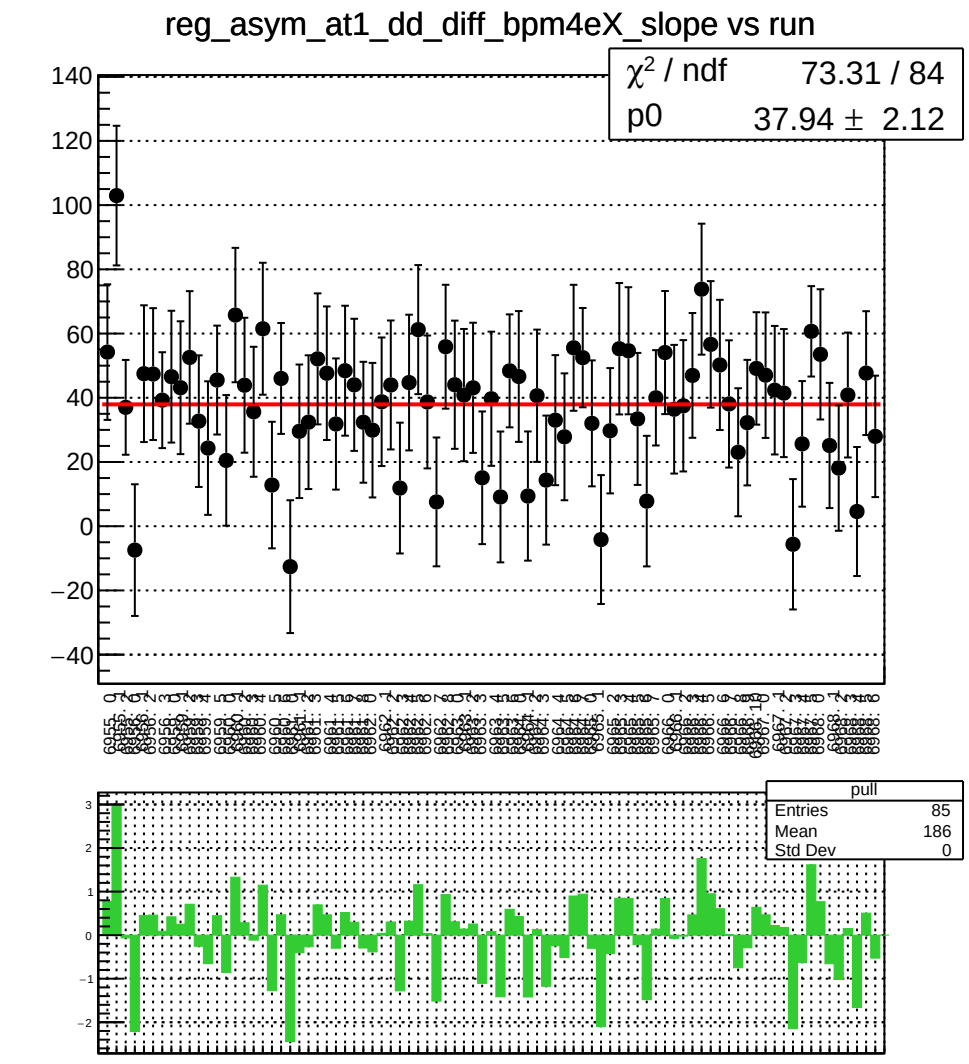

pull1D
Entries 85
Mean −0.005342
Std Dev 1.528

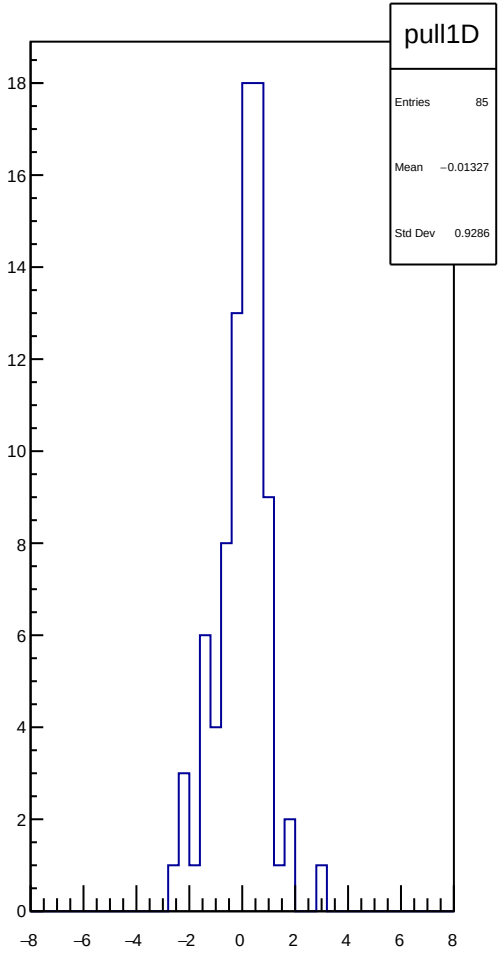

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 71.51 / 84
p0 11.45 ± 2.295
pull
Entries 85
Mean 213.8
Std Dev 0

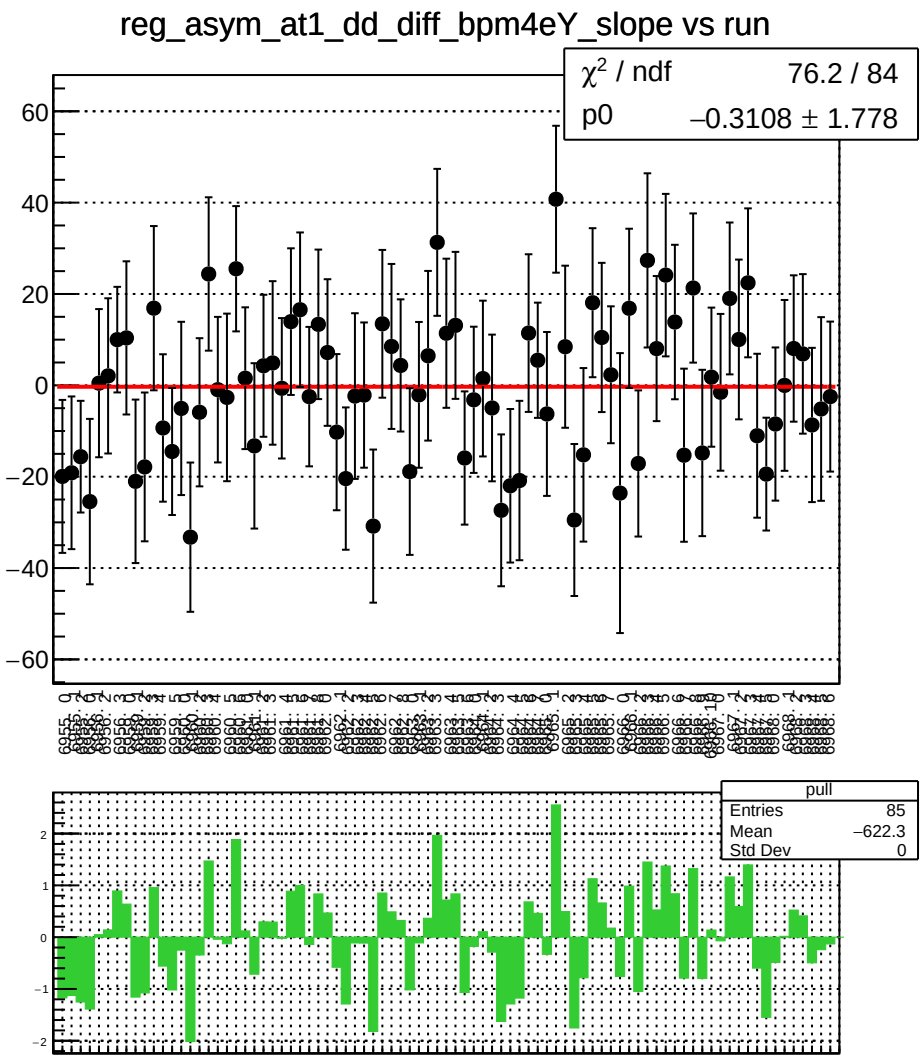

pull1D
Entries 85
Mean 0.01288
Std Dev 0.9171

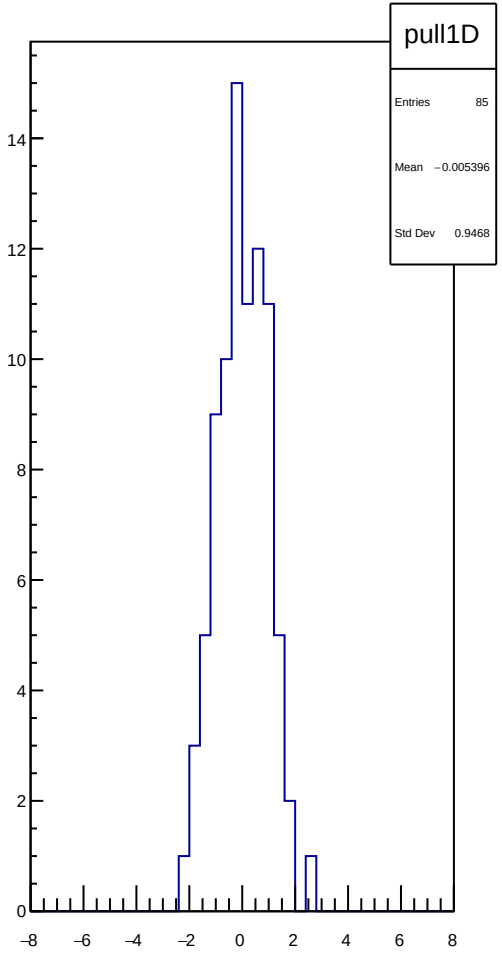

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.08 / 84
p0 1.085 ± 1.567
pull
Entries 85
Mean −221.3
Std Dev 0

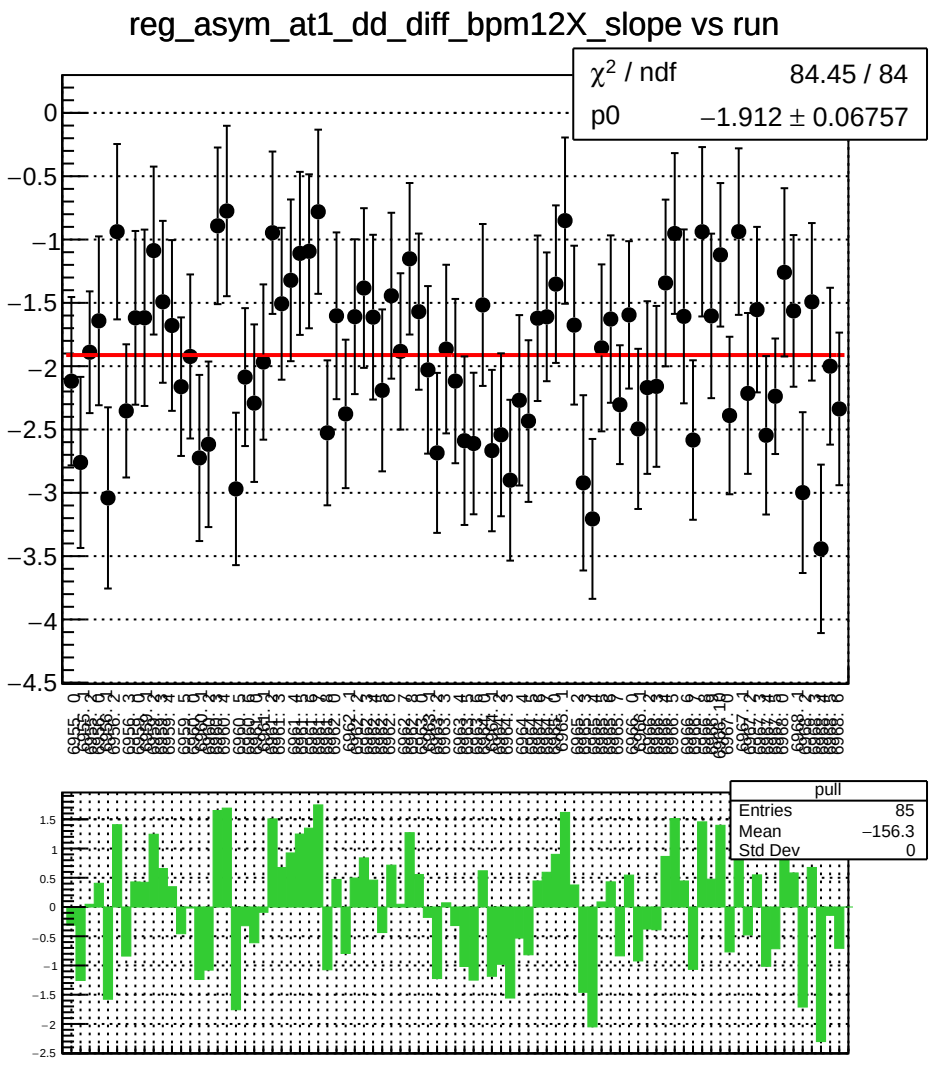

pull1D
Entries 85
Mean 0.01338
Std Dev 0.9522

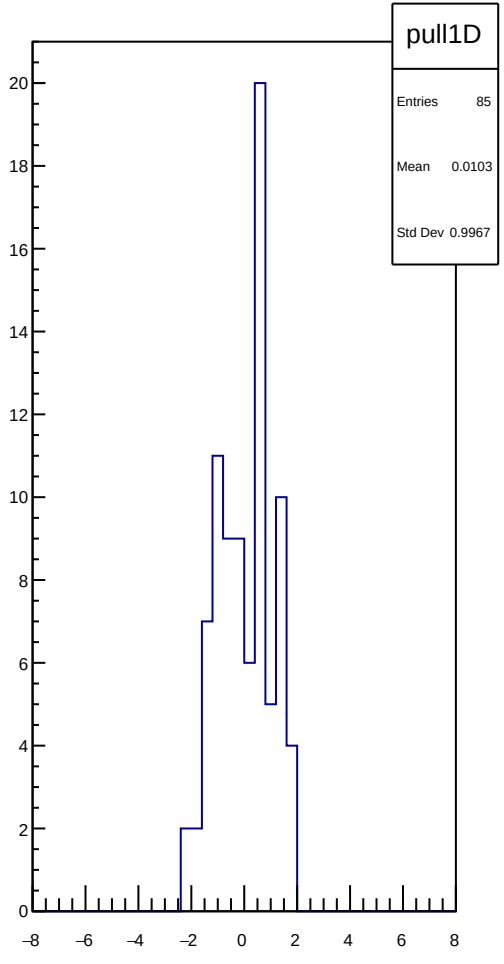

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.31 / 84
p0 37.94 ± 2.12
pull
Entries 85
Mean 186
Std Dev 0

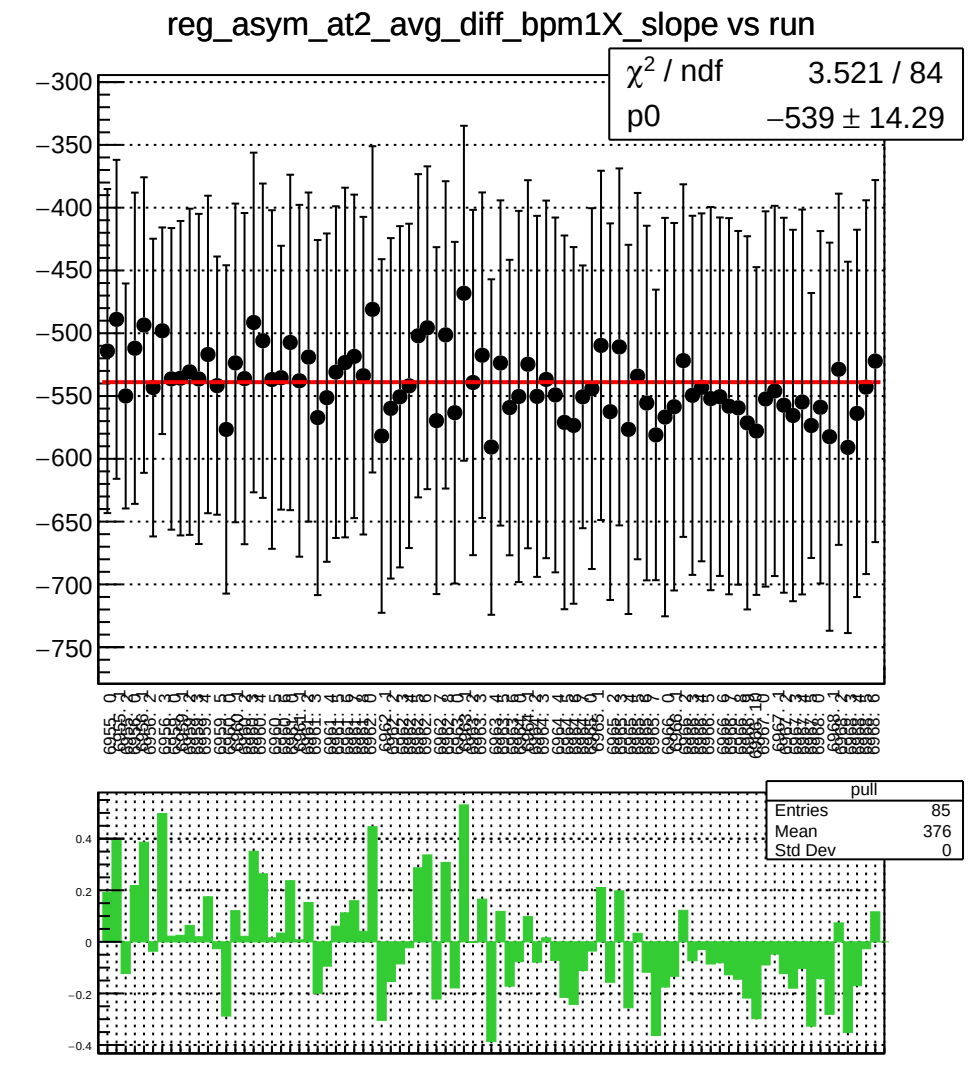

pull1D
Entries 85
Mean −0.01327
Std Dev 0.9286

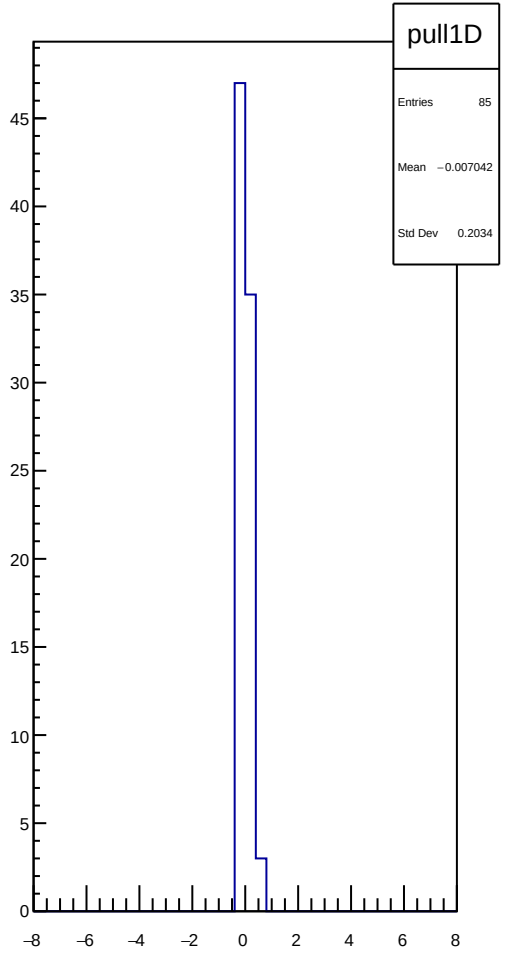

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.2 / 84
p0 −0.3108 ± 1.778
pull
Entries 85
Mean −622.3
Std Dev 0

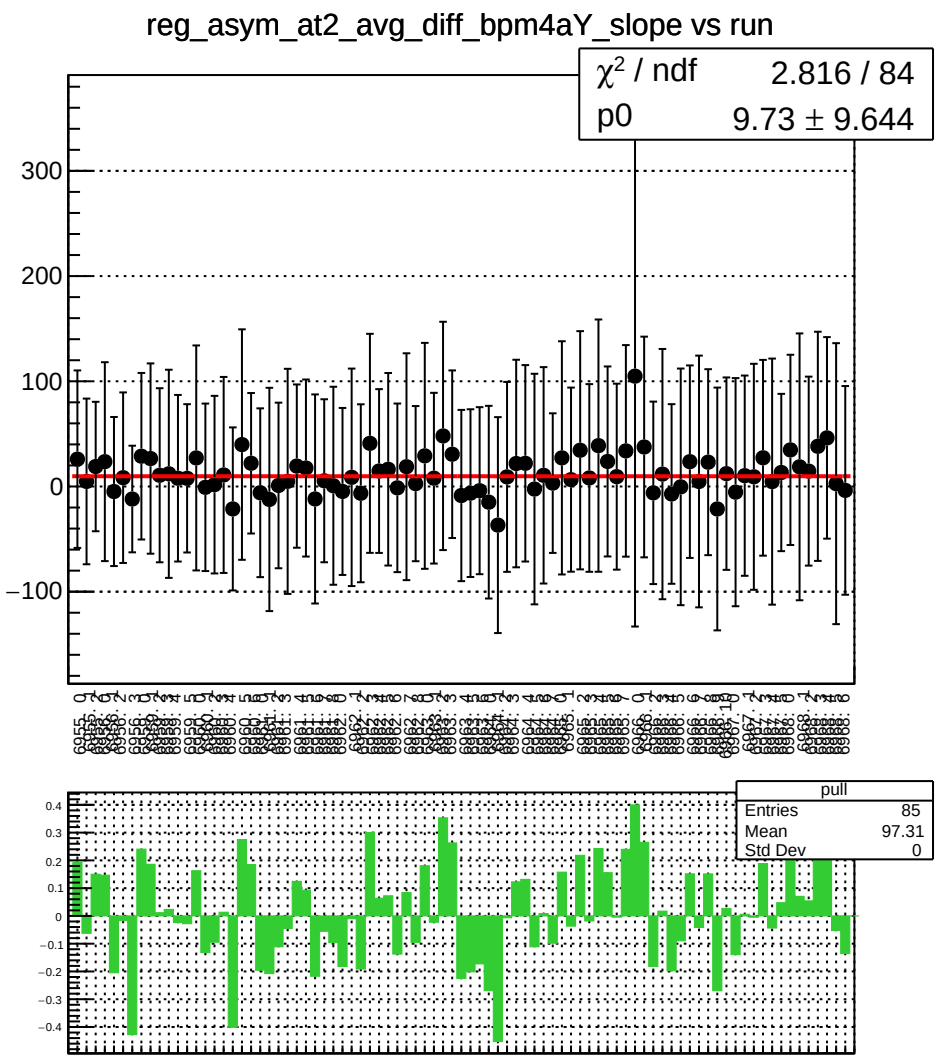

pull1D
Entries 85
Mean −0.005396
Std Dev 0.9468

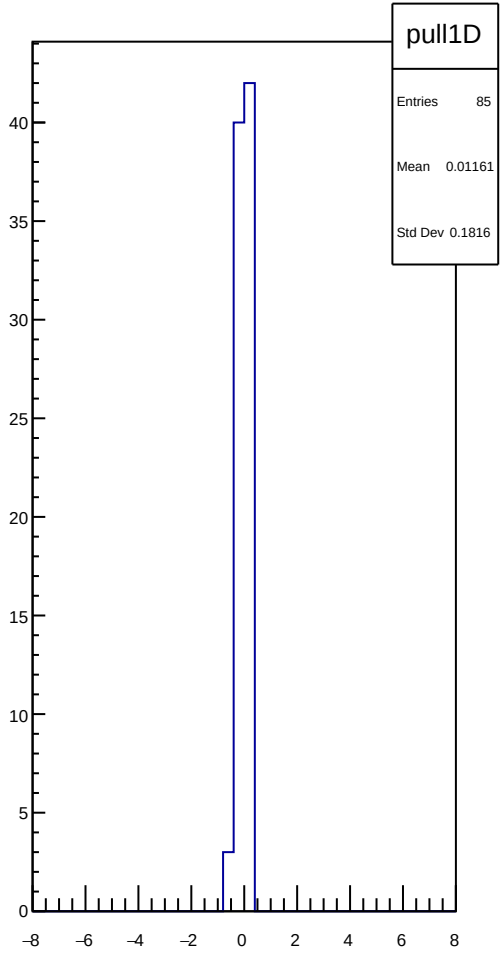

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 84.45 / 84
p0 −1.912 ± 0.06757
pull
Entries 85
Mean −156.3
Std Dev 0

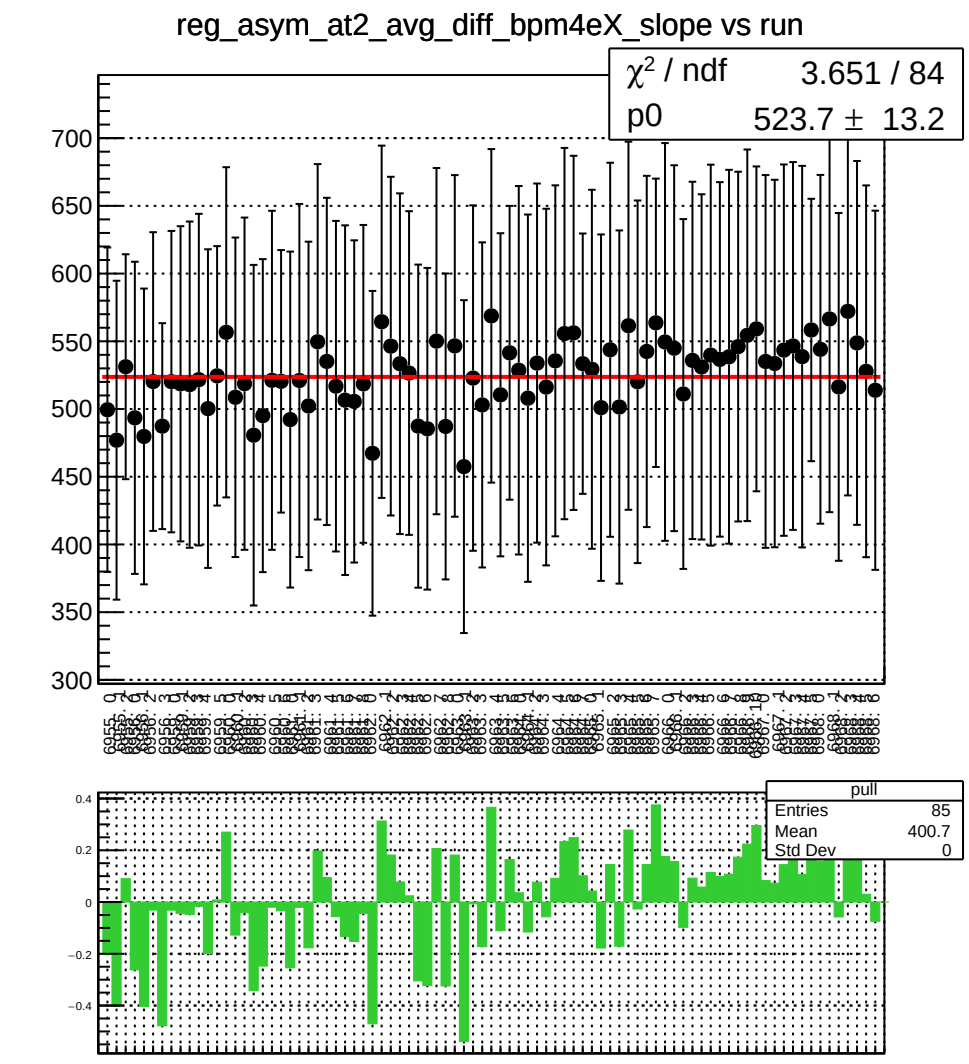

pull1D
Entries 85
Mean 0.0103
Std Dev 0.9967

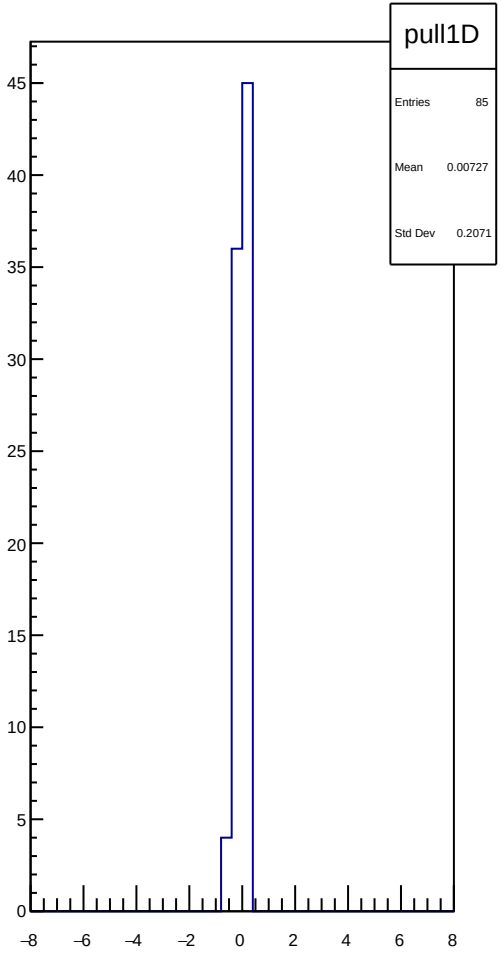

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.521 / 84
p0 −539 ± 14.29
pull
Entries 85
Mean 376
Std Dev 0

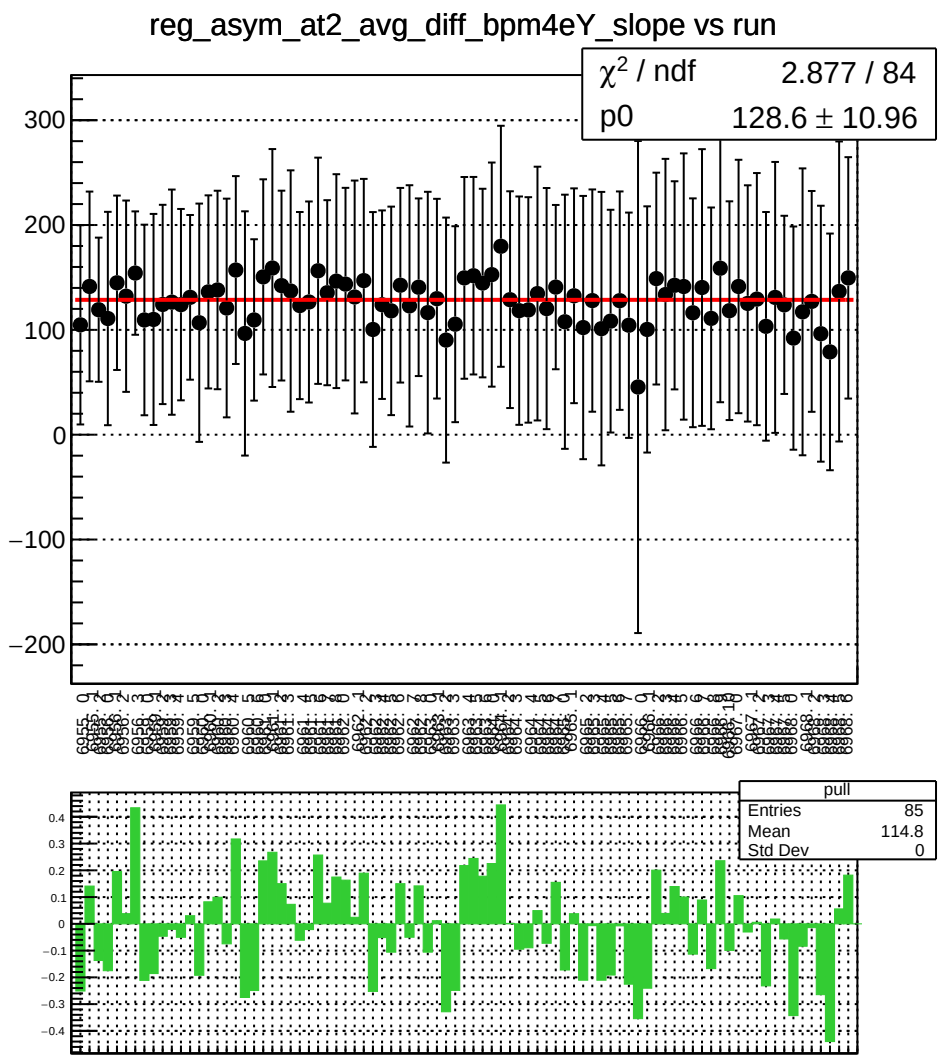

pull1D
Entries 85
Mean −0.007042
Std Dev 0.2034

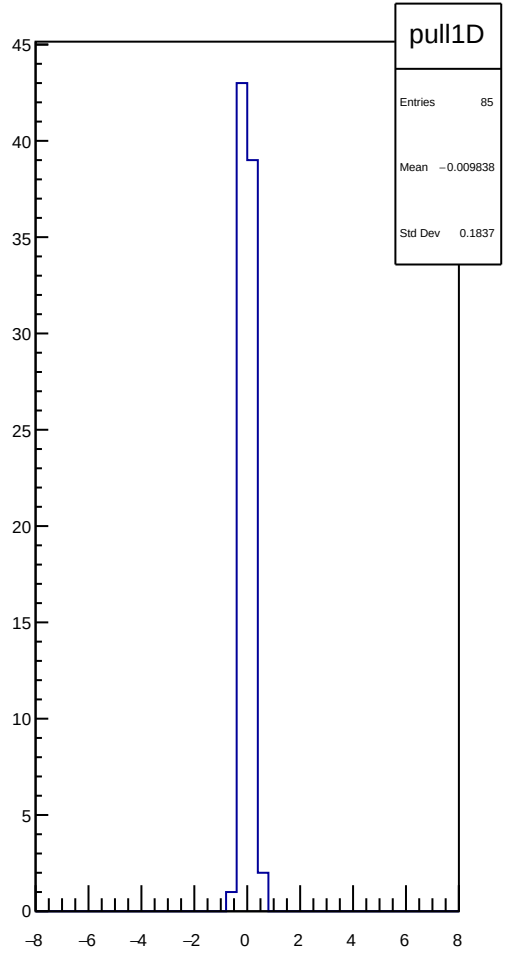

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.816 / 84
p0 9.73 ± 9.644
300
200
100
0
−100
pull
Entries 85
Mean 97.31
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

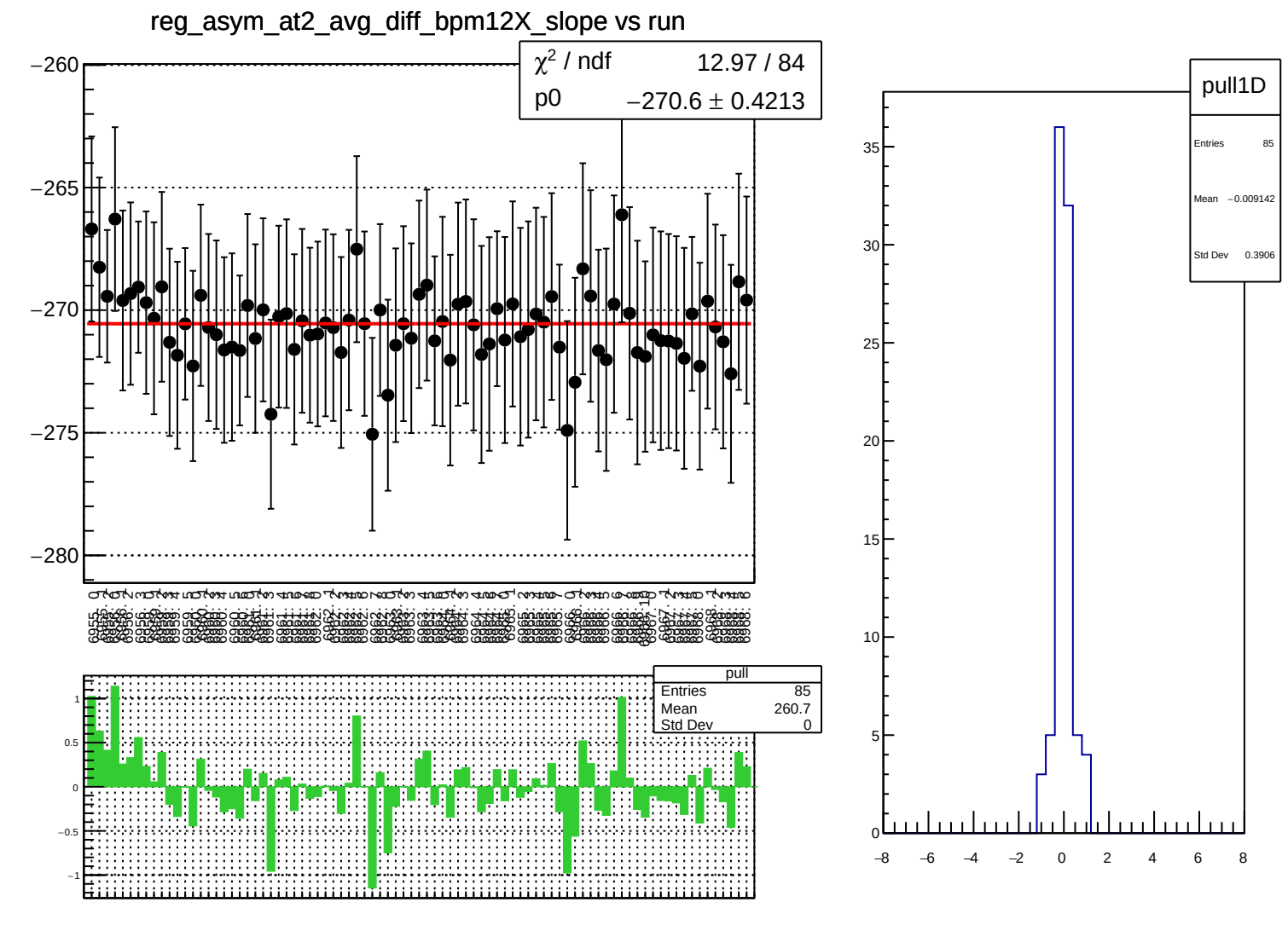

pull1D
Entries 85
Mean 0.01161
Std Dev 0.1816
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

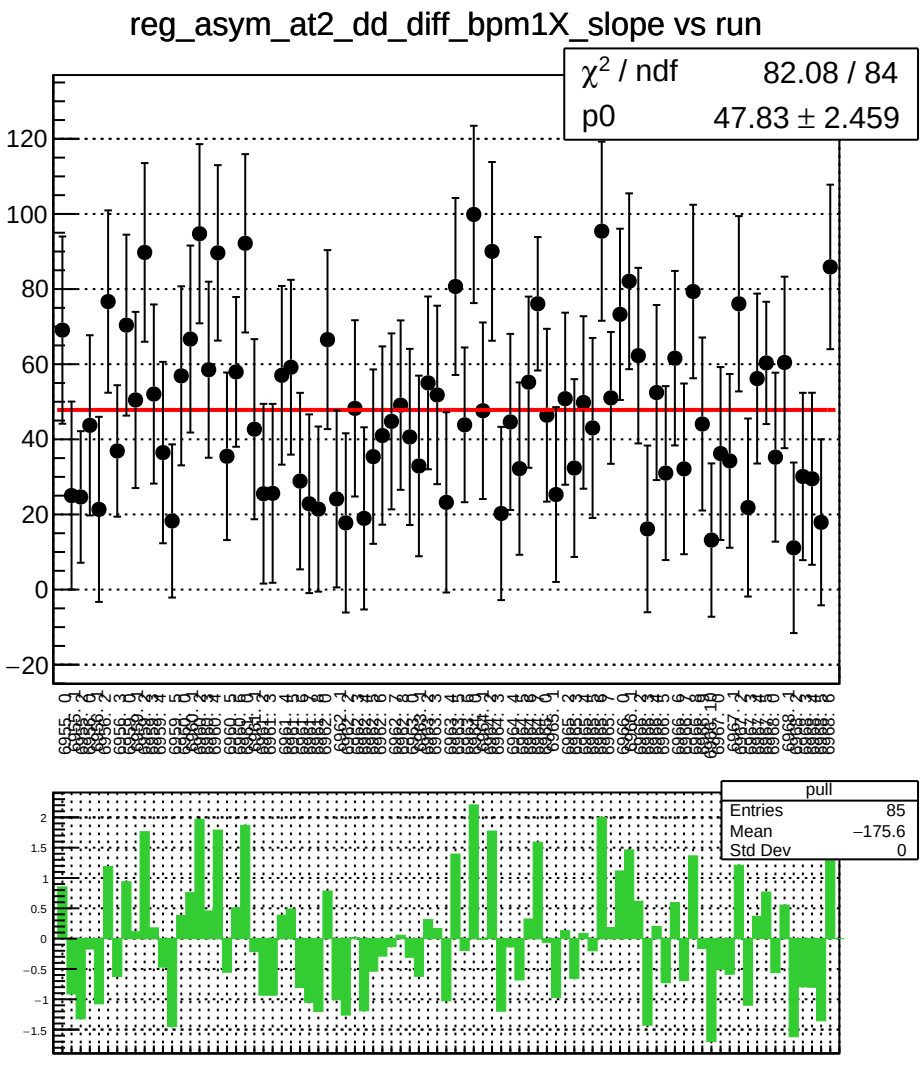

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.651 / 84
p0 523.7 ± 13.2
pull
Entries 85
Mean 400.7
Std Dev 0

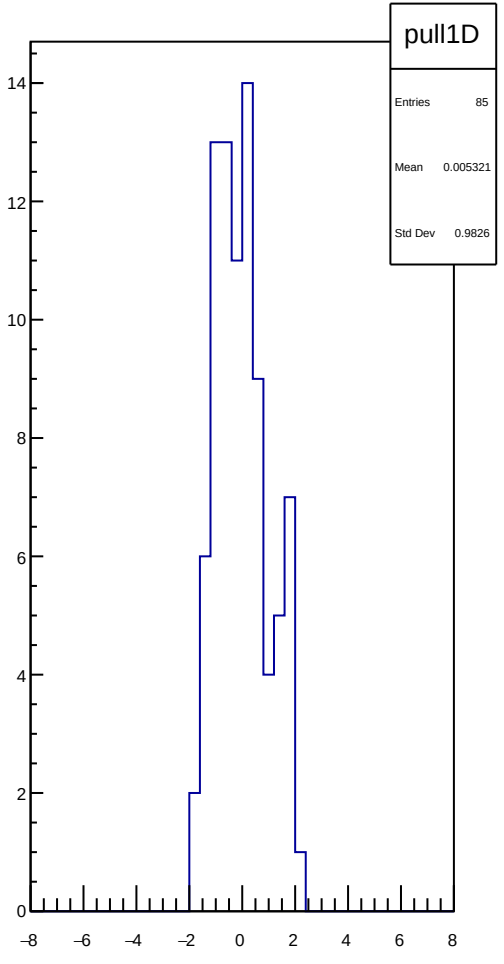

pull1D
Entries 85
Mean 0.00727
Std Dev 0.2071

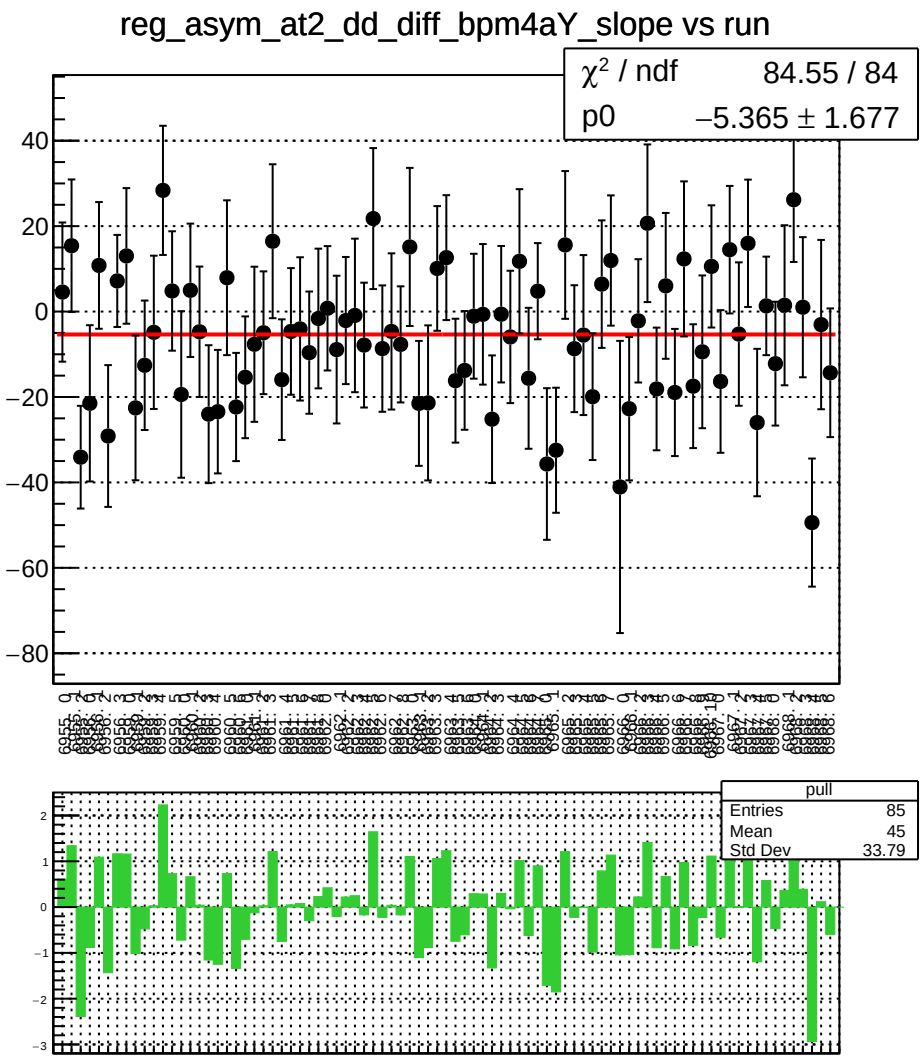

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.877 / 84
p0 128.6 ± 10.96
300
200
100
0
−100
−200
pull
Entries 85
Mean 114.8
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

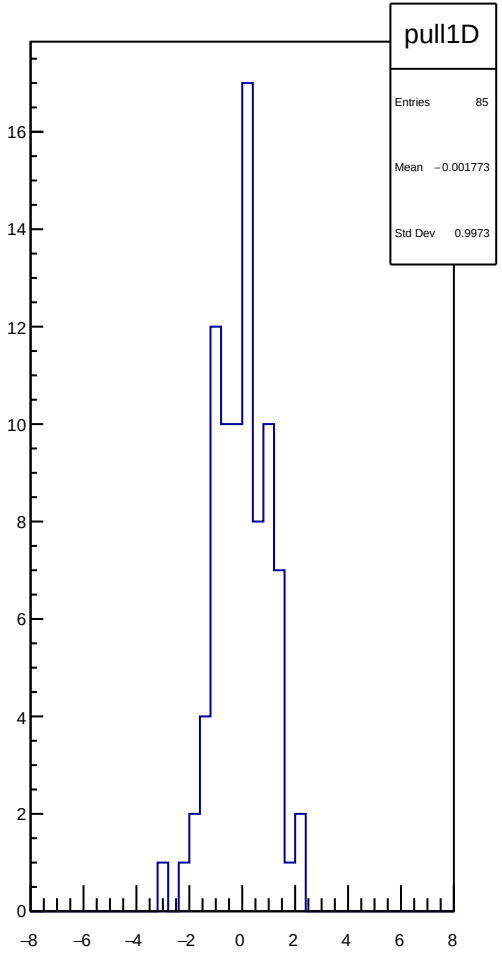

pull1D
Entries 85
Mean −0.009838
Std Dev 0.1837
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

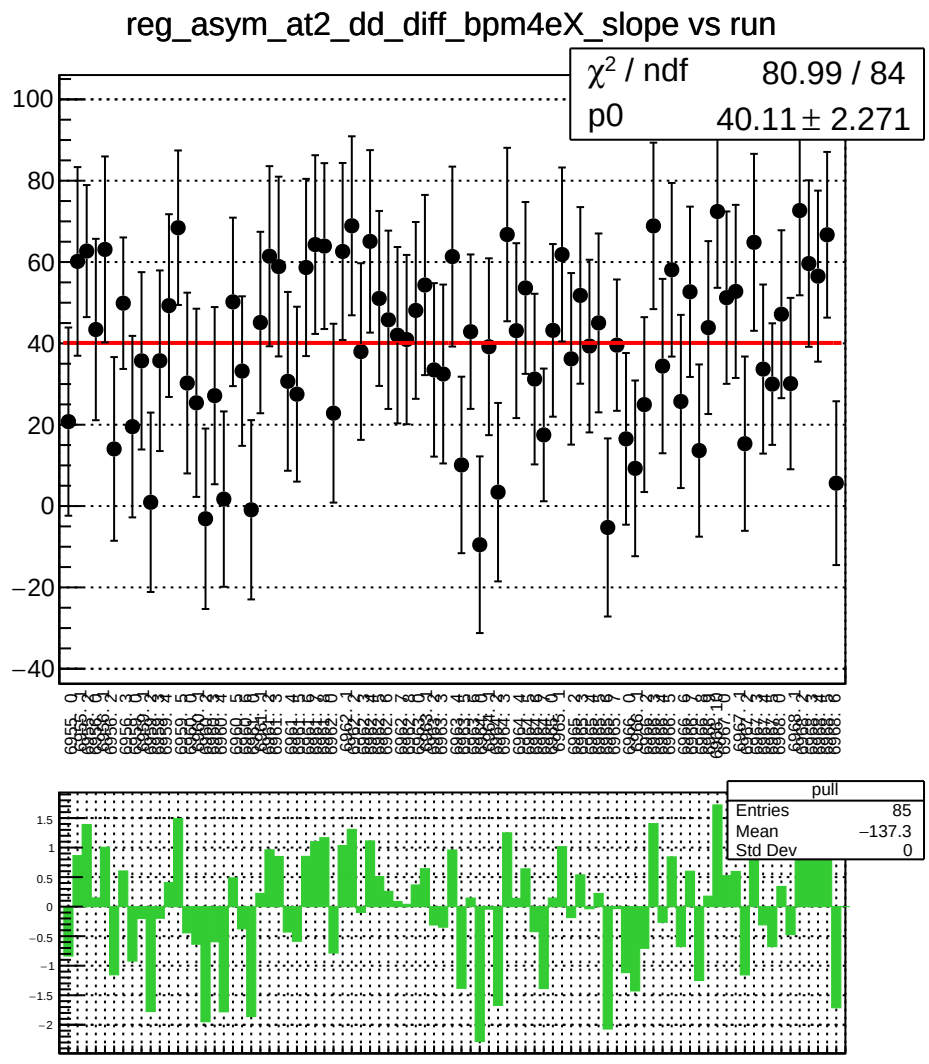

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 12.97 / 84
p0 −270.6 ± 0.4213
−260
−265
−270
−275
−280
pull
Entries 85
Mean 260.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.009142
Std Dev 0.3906
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

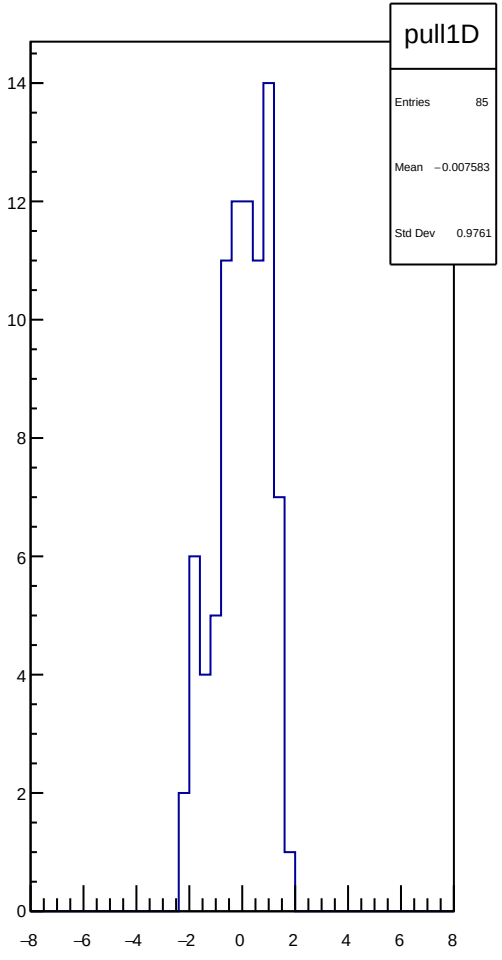

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 82.08 / 84
p0 47.83 ± 2.459
pull
Entries 85
Mean −175.6
Std Dev 0

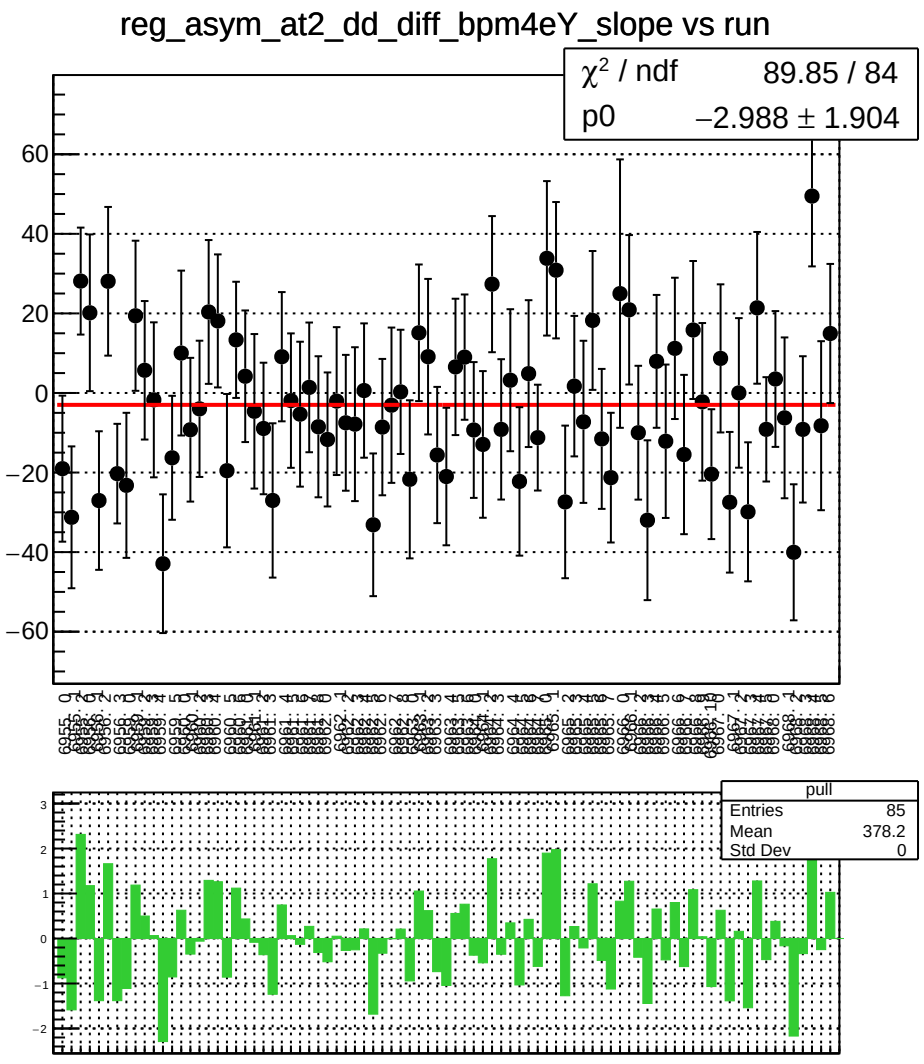

pull1D
Entries 85
Mean 0.005321
Std Dev 0.9826

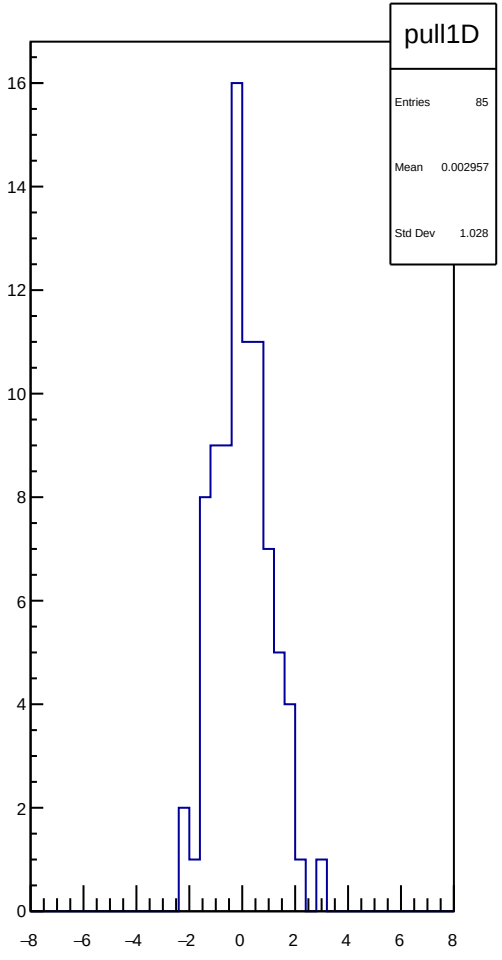

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.55 / 84
p0 −5.365 ± 1.677
pull
Entries 85
Mean 45
Std Dev 33.79

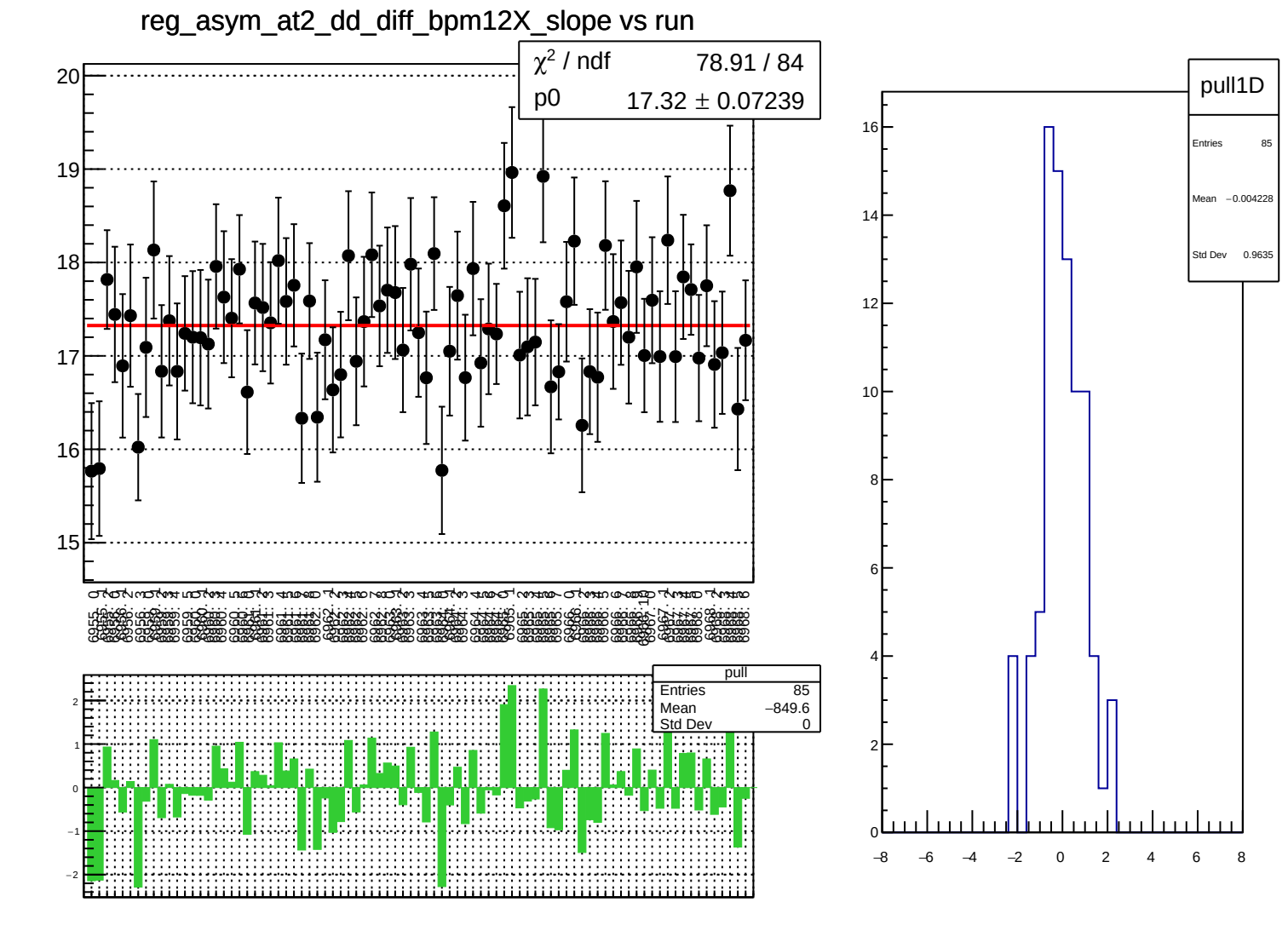

pull1D
Entries 85
Mean −0.001773
Std Dev 0.9973

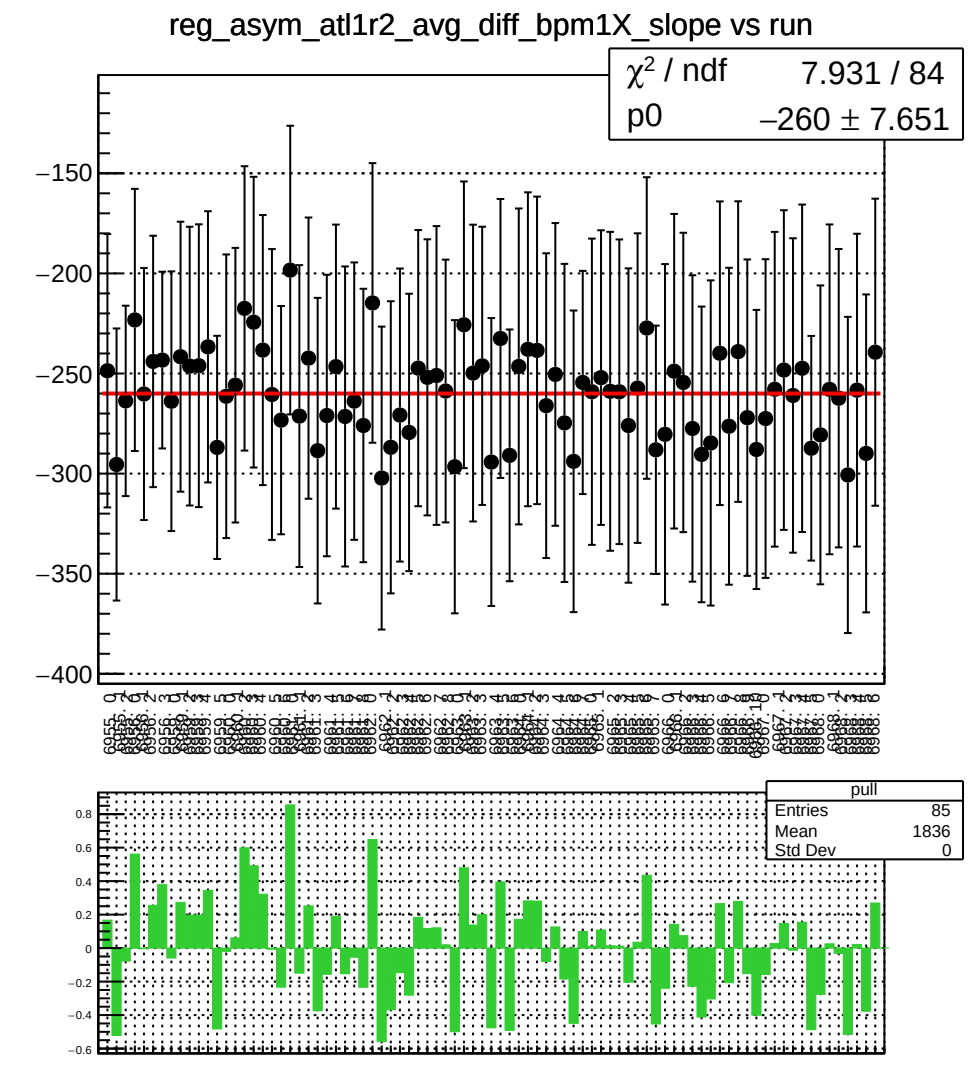

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.99 / 84
p0 40.11 ± 2.271
pull
Entries 85
Mean −137.3
Std Dev 0

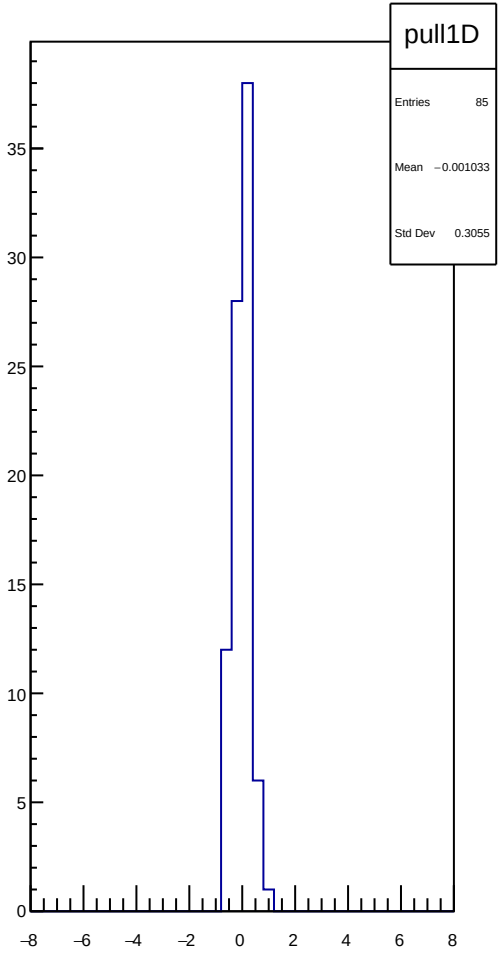

pull1D
Entries 85
Mean −0.007583
Std Dev 0.9761

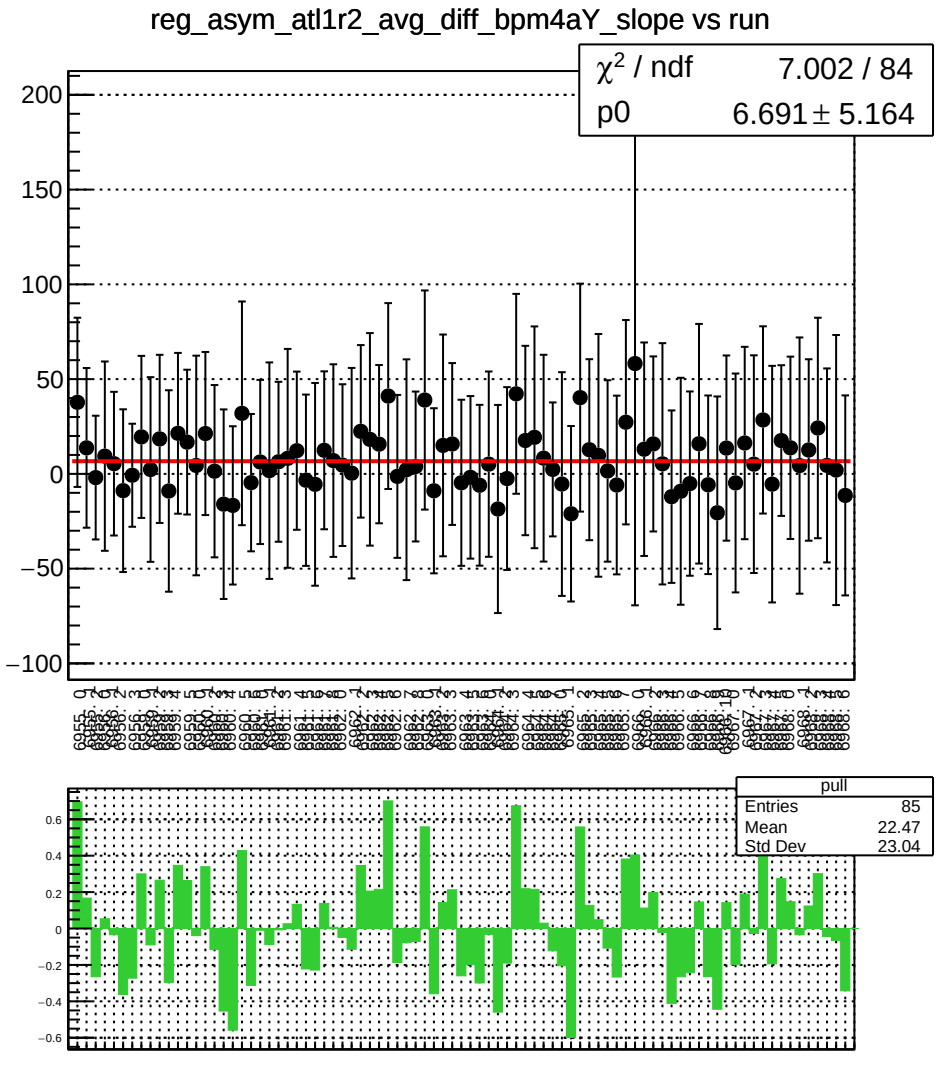

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.85 / 84
p0 −2.988 ± 1.904
pull
Entries 85
Mean 378.2
Std Dev 0

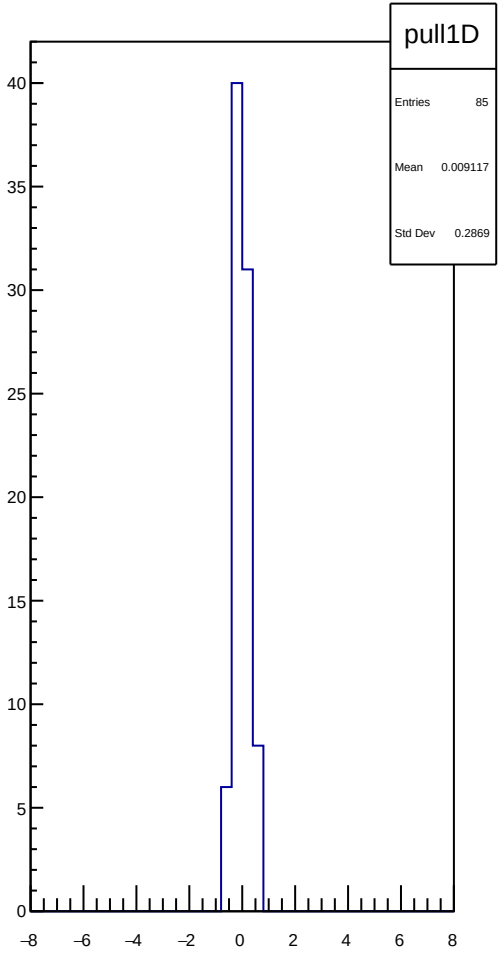

pull1D
Entries 85
Mean 0.002957
Std Dev 1.028

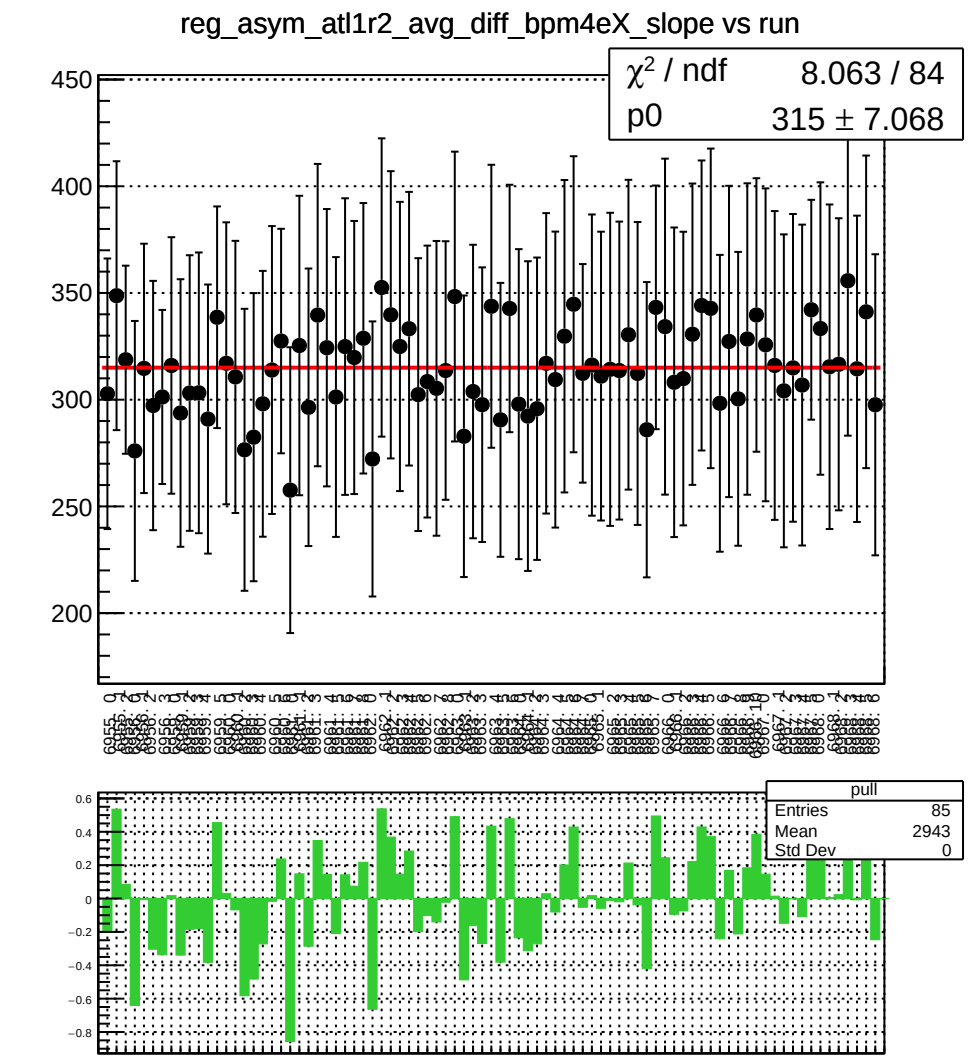

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 78.91 / 84
p0 17.32 ± 0.07239
pull
Entries 85
Mean −849.6
Std Dev 0
pull1D
Entries 85
Mean −0.004228
Std Dev 0.9635

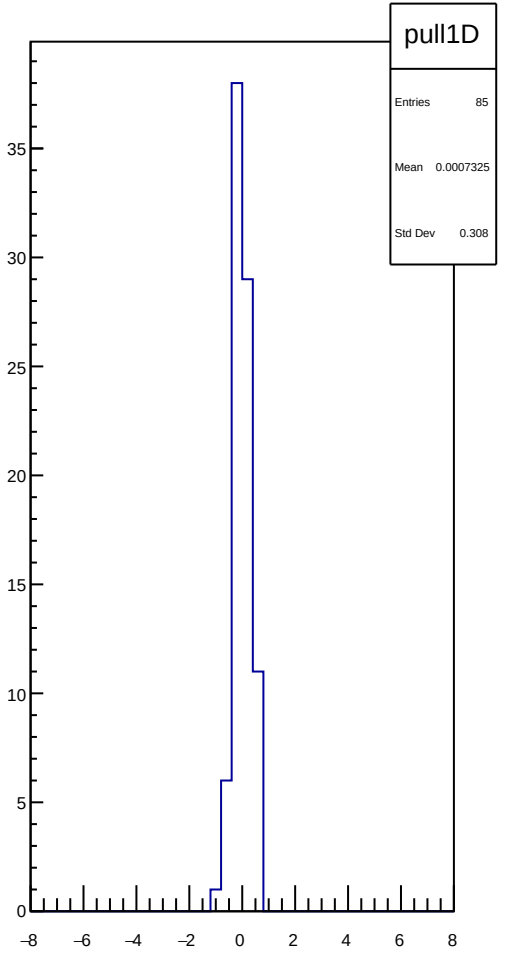

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.931 / 84
p0 −260 ± 7.651
pull
Entries 85
Mean 1836
Std Dev 0

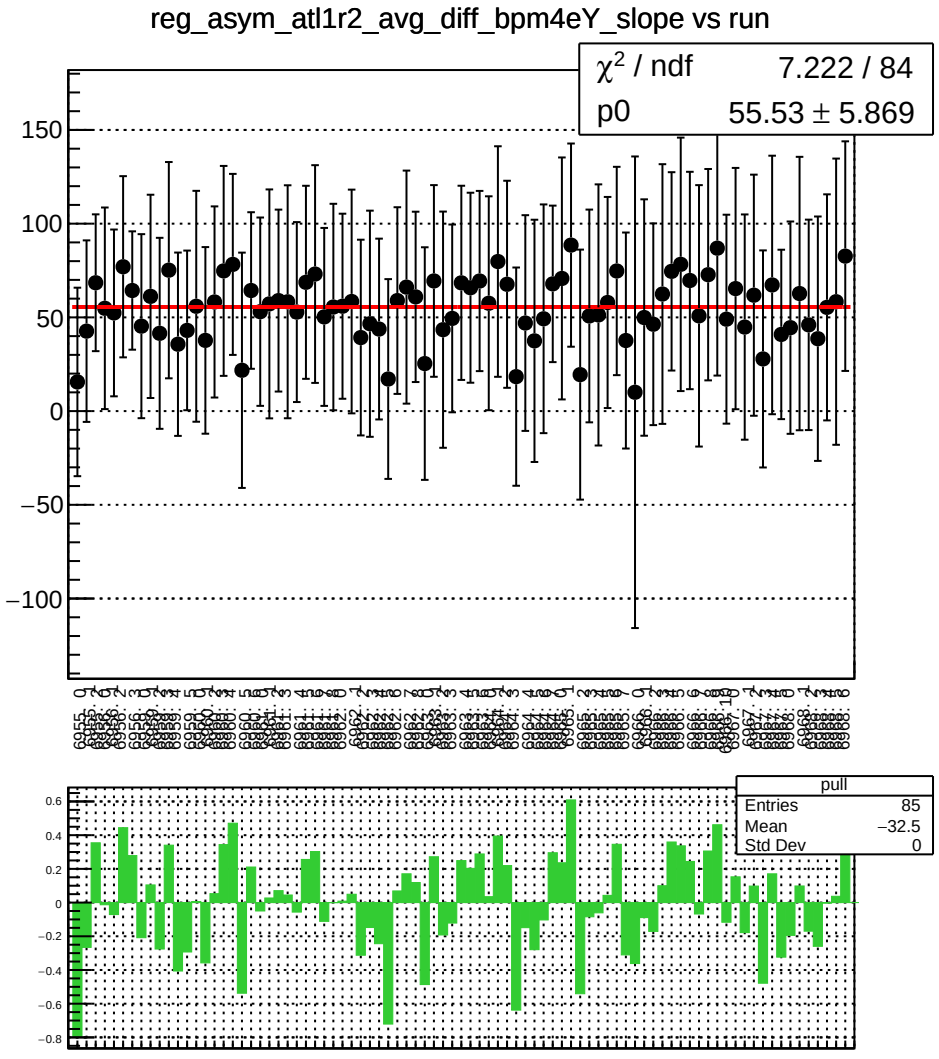

pull1D
Entries 85
Mean −0.001033
Std Dev 0.3055

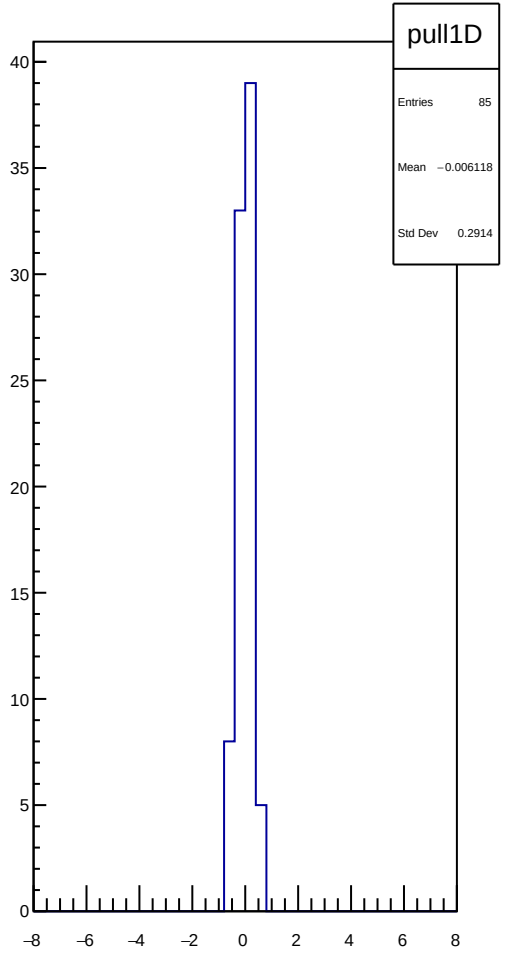

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.002 / 84
p0 6.691 ± 5.164
pull
Entries 85
Mean 22.47
Std Dev 23.04

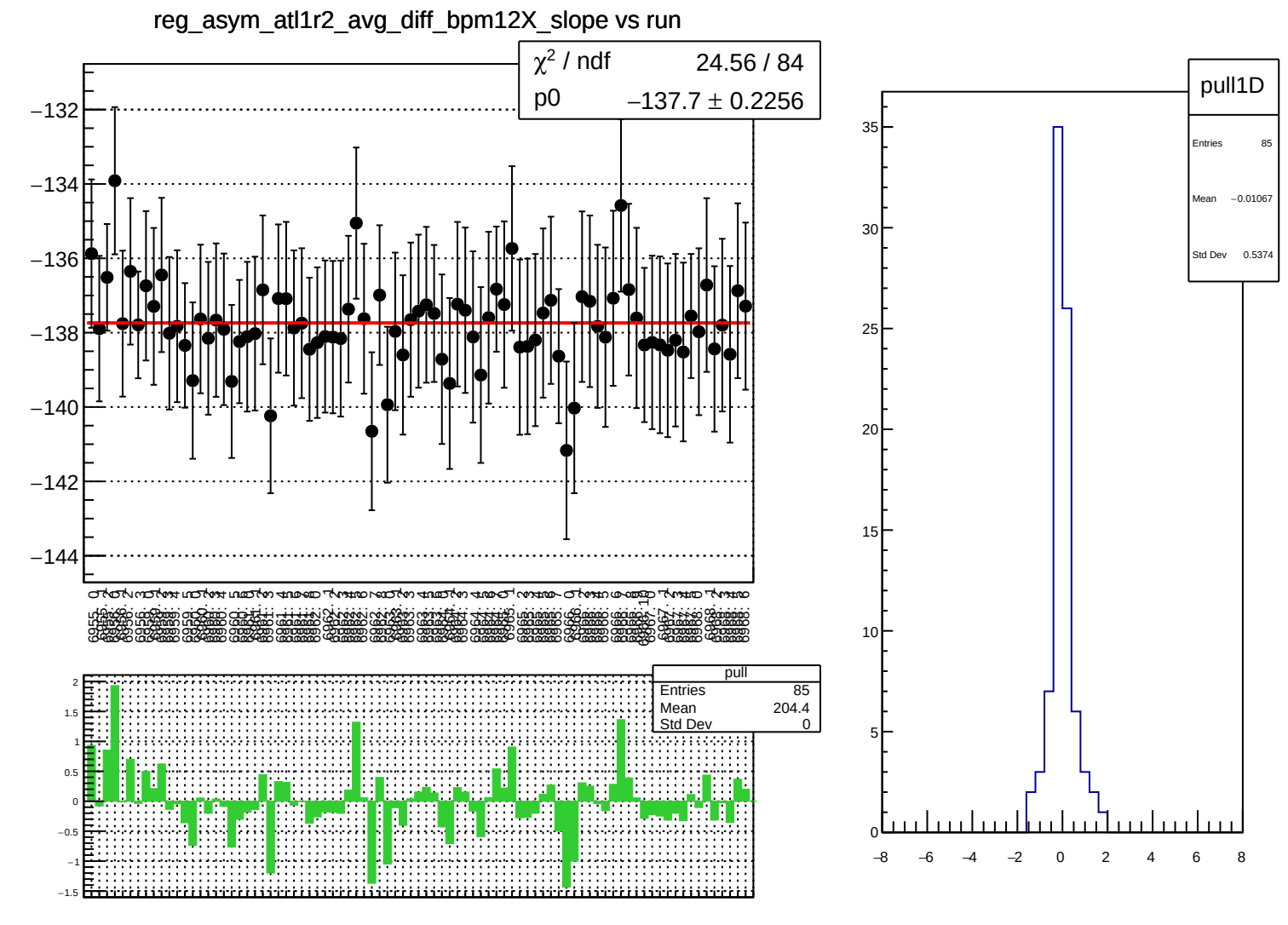

pull1D
Entries 85
Mean 0.009117
Std Dev 0.2869

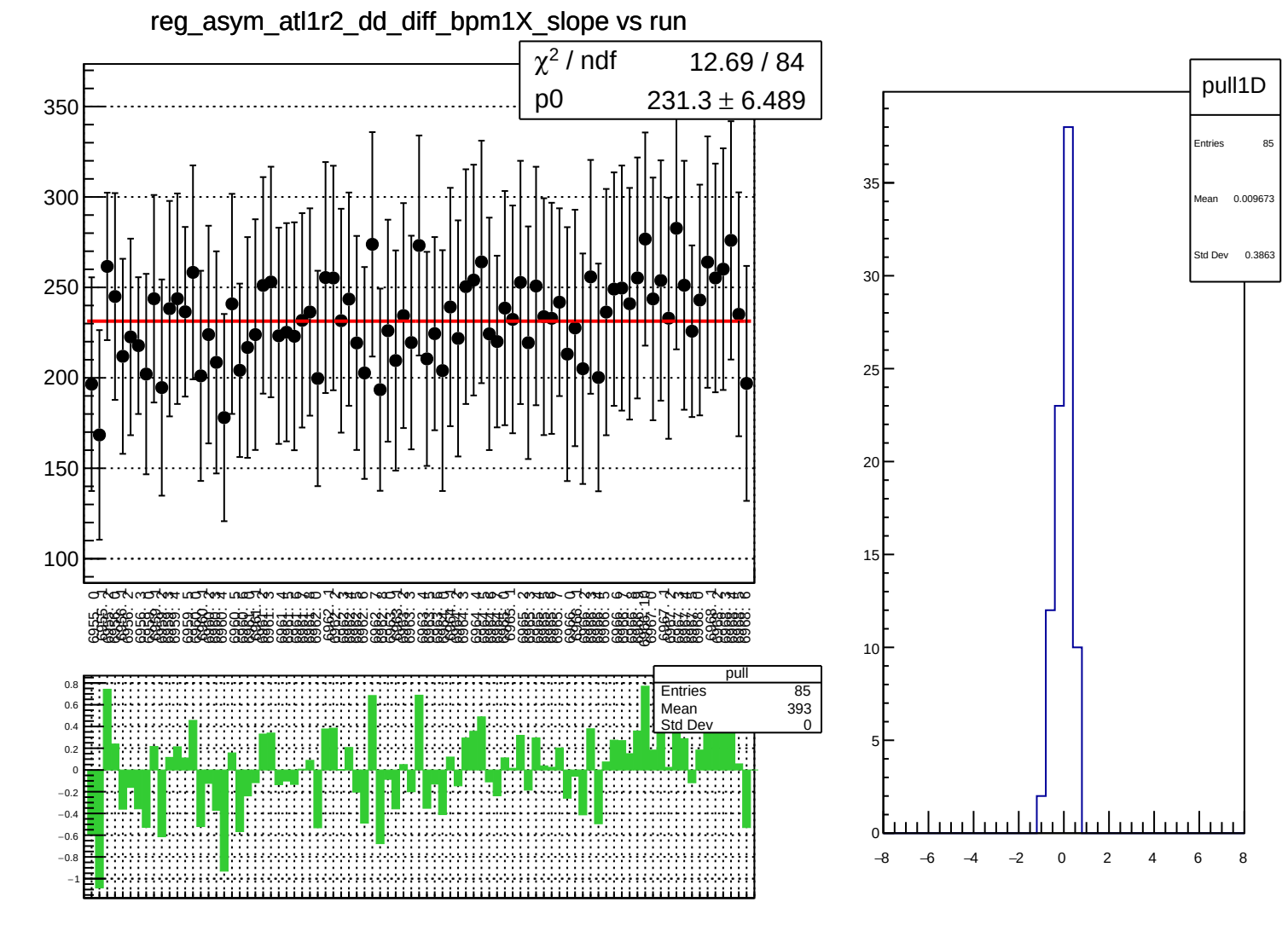

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.063 / 84
p0 315 ± 7.068
pull
Entries 85
Mean 2943
Std Dev 0

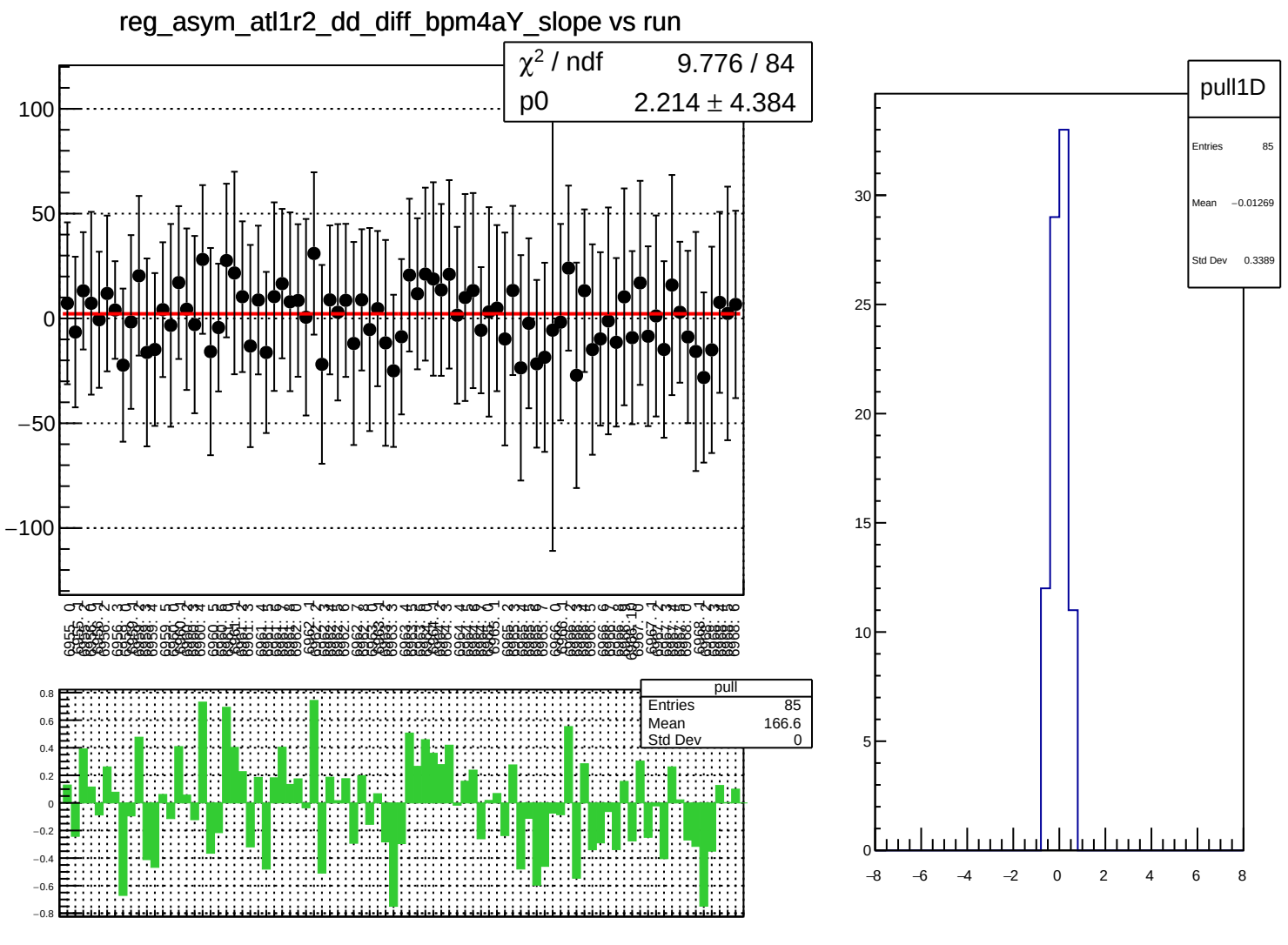

pull1D
Entries 85
Mean 0.0007325
Std Dev 0.308

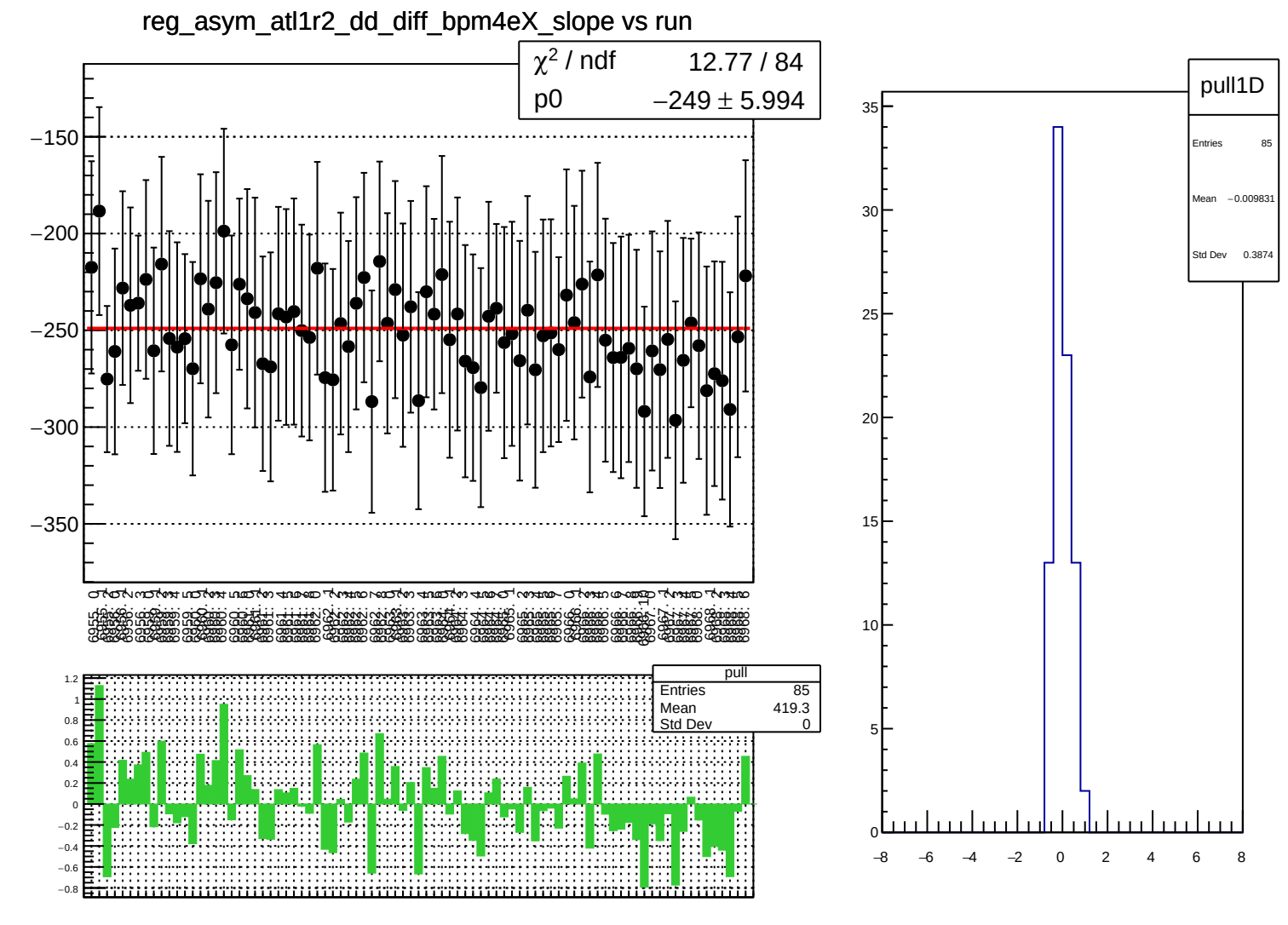

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.222 / 84
p0 55.53 ± 5.869
150
100
50
0
−50
−100
pull
Entries 85
Mean −32.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

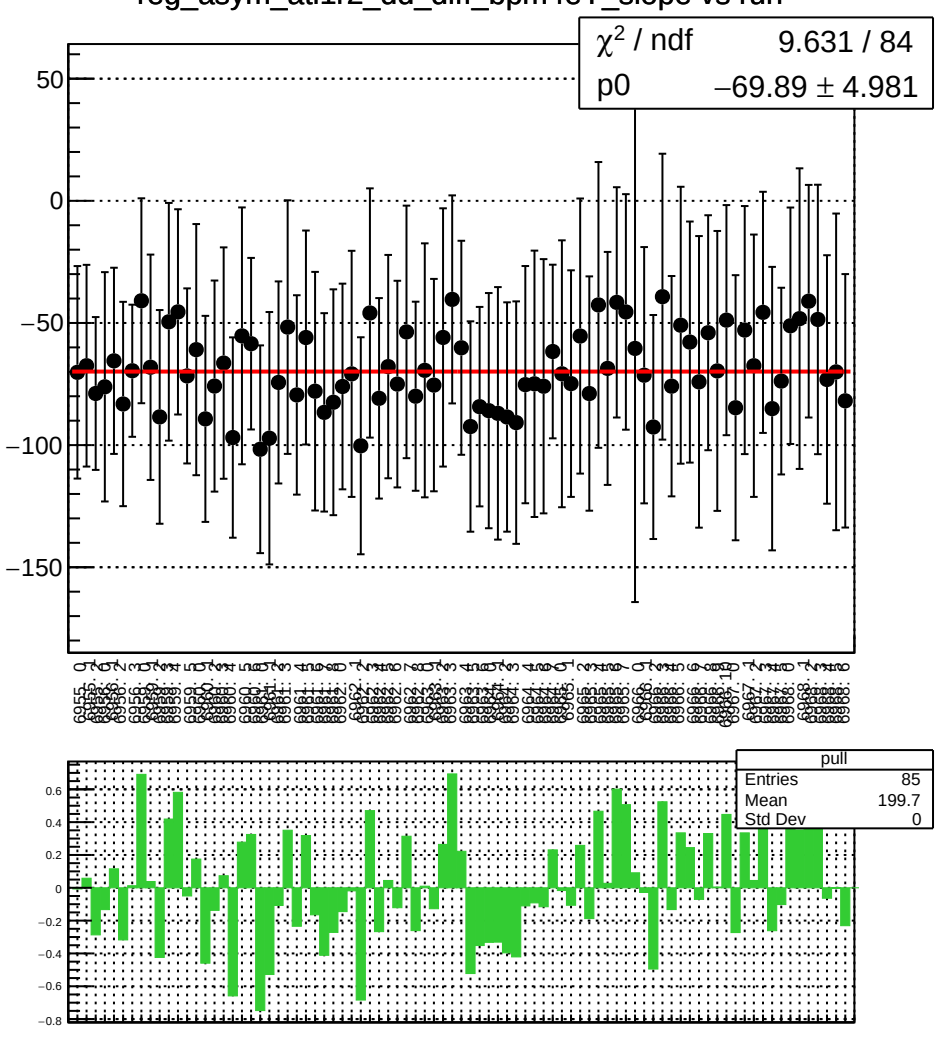

pull1D
Entries 85
Mean −0.006118
Std Dev 0.2914
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

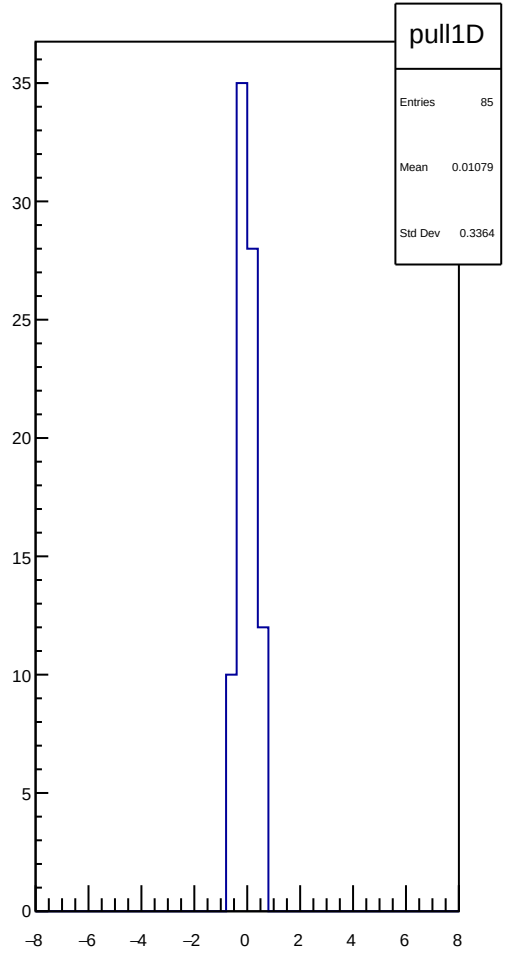

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 24.56 / 84
p0 −137.7 ± 0.2256
−132
−134
−136
−138
−140
−142
−144
pull
Entries 85
Mean 204.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.01067
Std Dev 0.5374
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

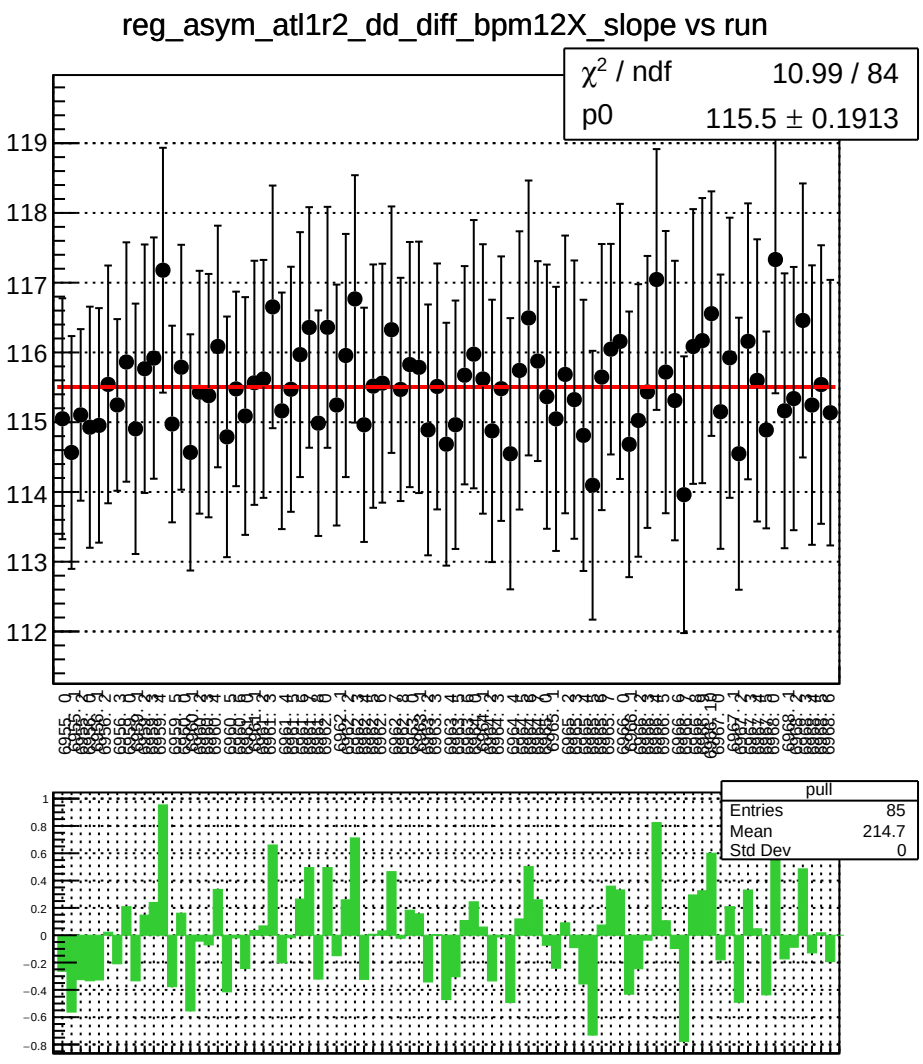

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 12.69 / 84
p0 231.3 ± 6.489
350
300
250
200
150
100
pull
Entries 85
Mean 393
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 85
Mean 0.009673
Std Dev 0.3863
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

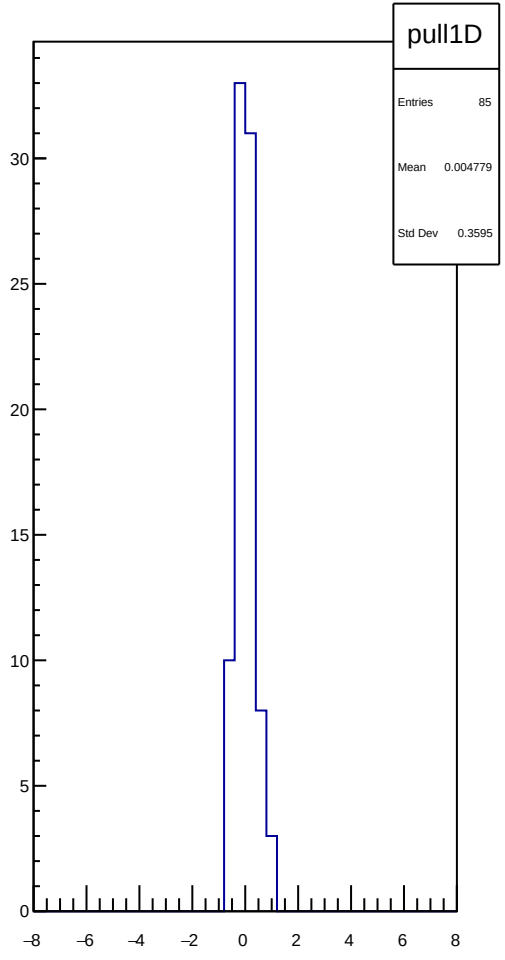

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.776 / 84
p0 2.214 ± 4.384
100
50
0
−50
−100
pull
Entries 85
Mean 166.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 85
Mean −0.01269
Std Dev 0.3389
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

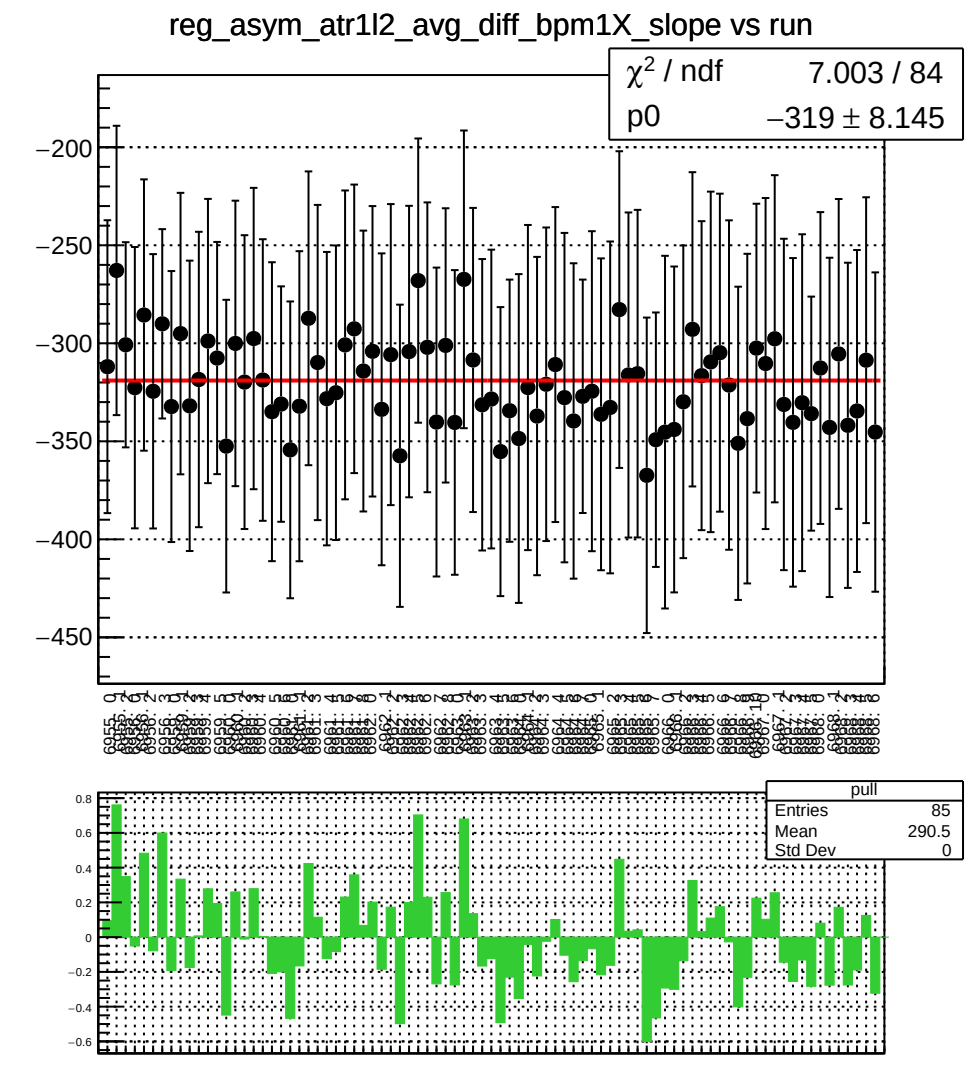

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.77 / 84
p0 −249 ± 5.994
−150
−200
−250
−300
−350
pull
Entries 85
Mean 419.3
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 85
Mean −0.009831
Std Dev 0.3874
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

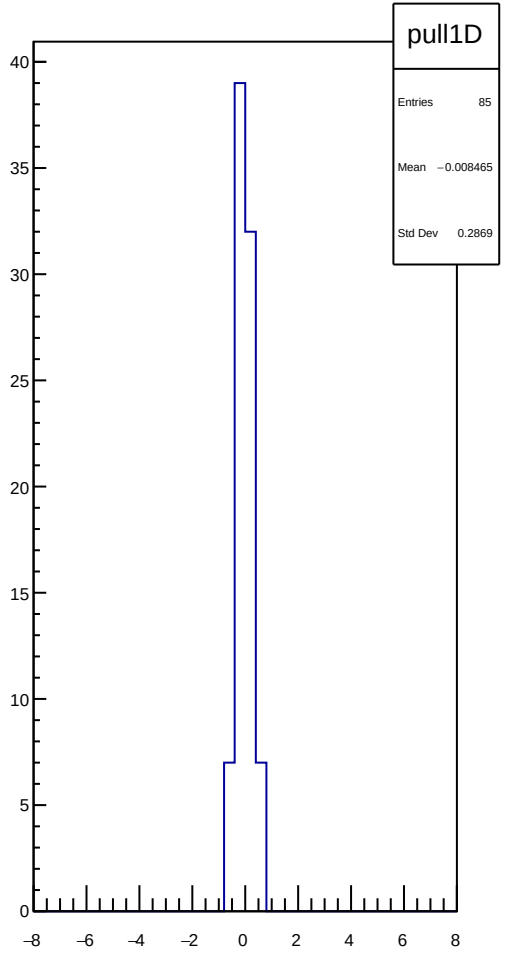

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.631 / 84
p0 −69.89 ± 4.981
50
0
−50
−100
−150
pull
Entries 85
Mean 199.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

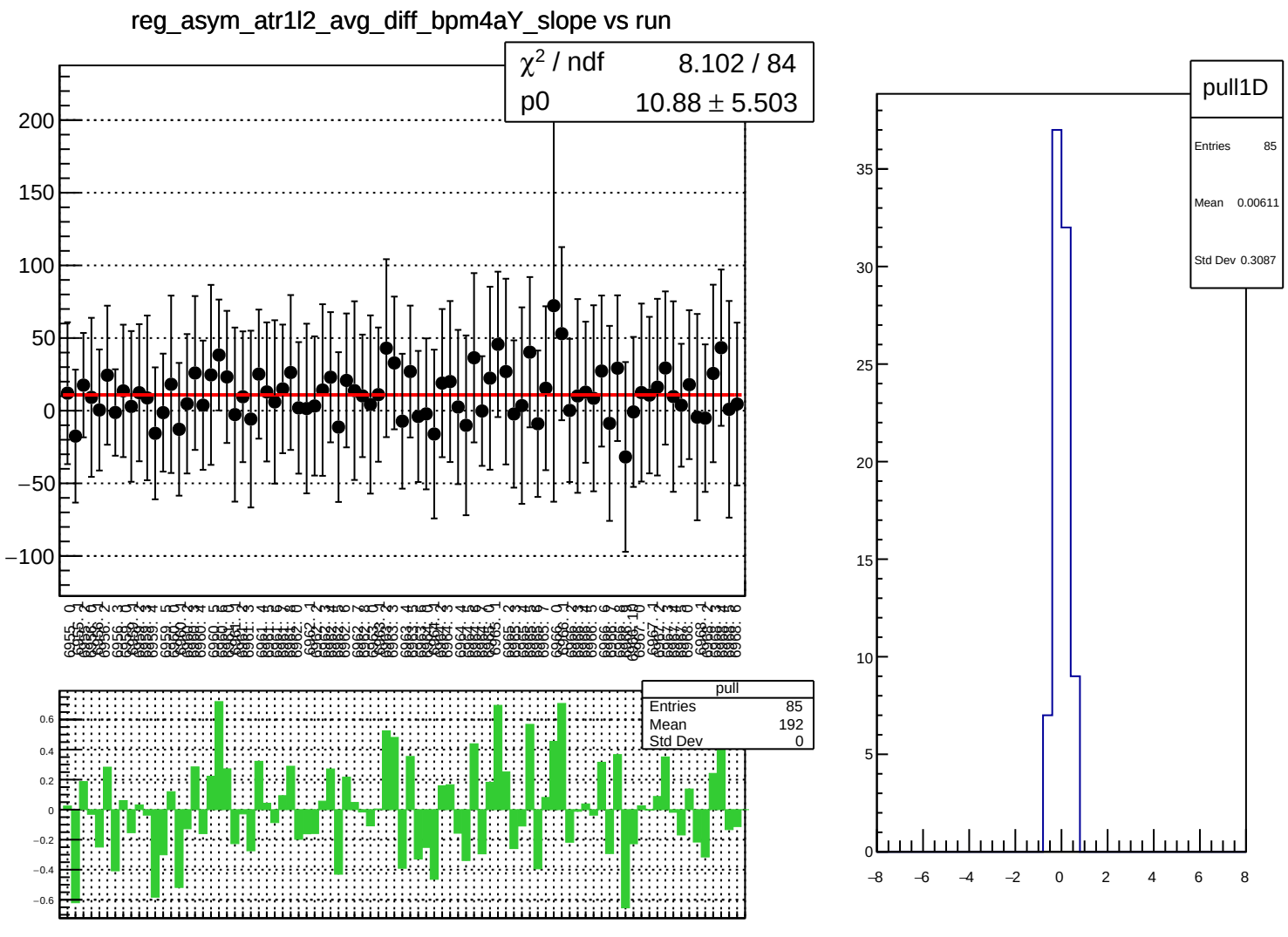

pull1D
Entries 85
Mean 0.01079
Std Dev 0.3364
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

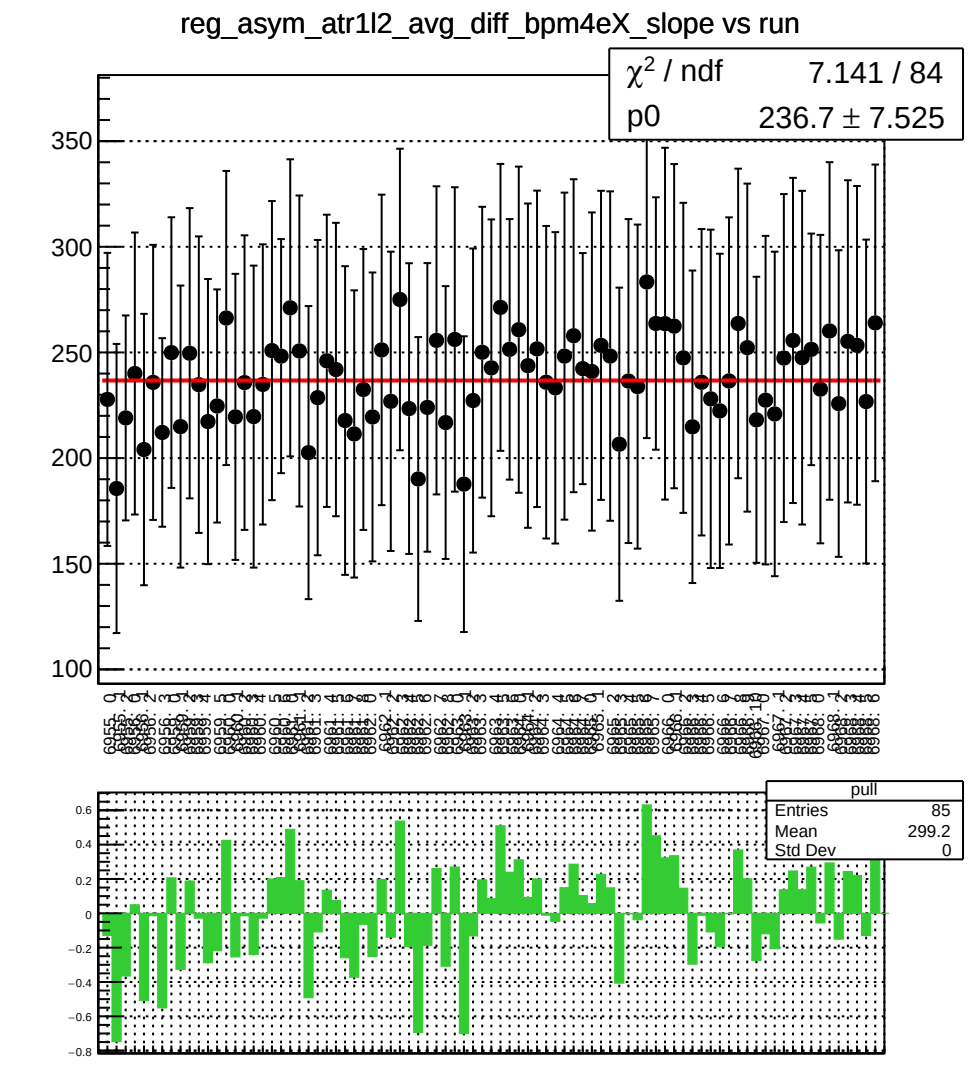

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 10.99 / 84
p0 115.5 ± 0.1913
119
118
117
116
115
114
113
112
pull
Entries 85
Mean 214.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

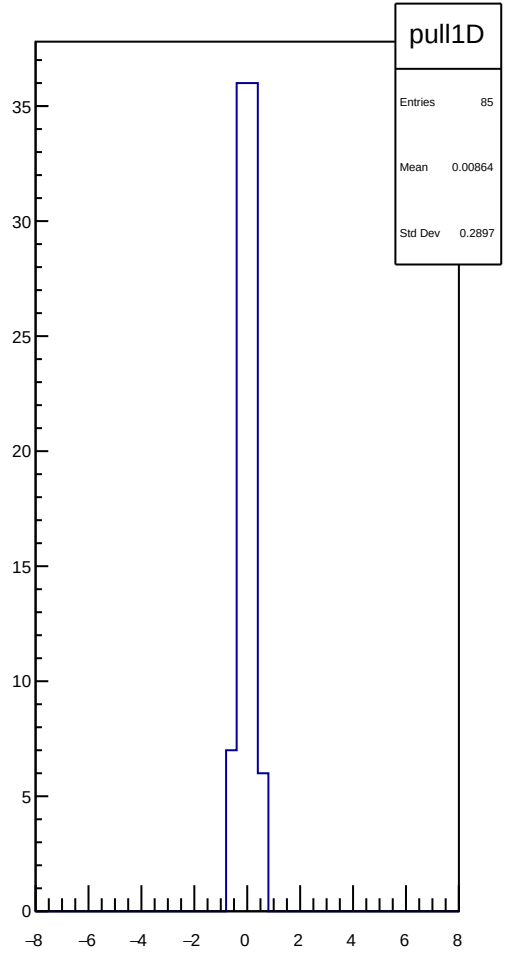

pull1D
Entries 85
Mean 0.004779
Std Dev 0.3595
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

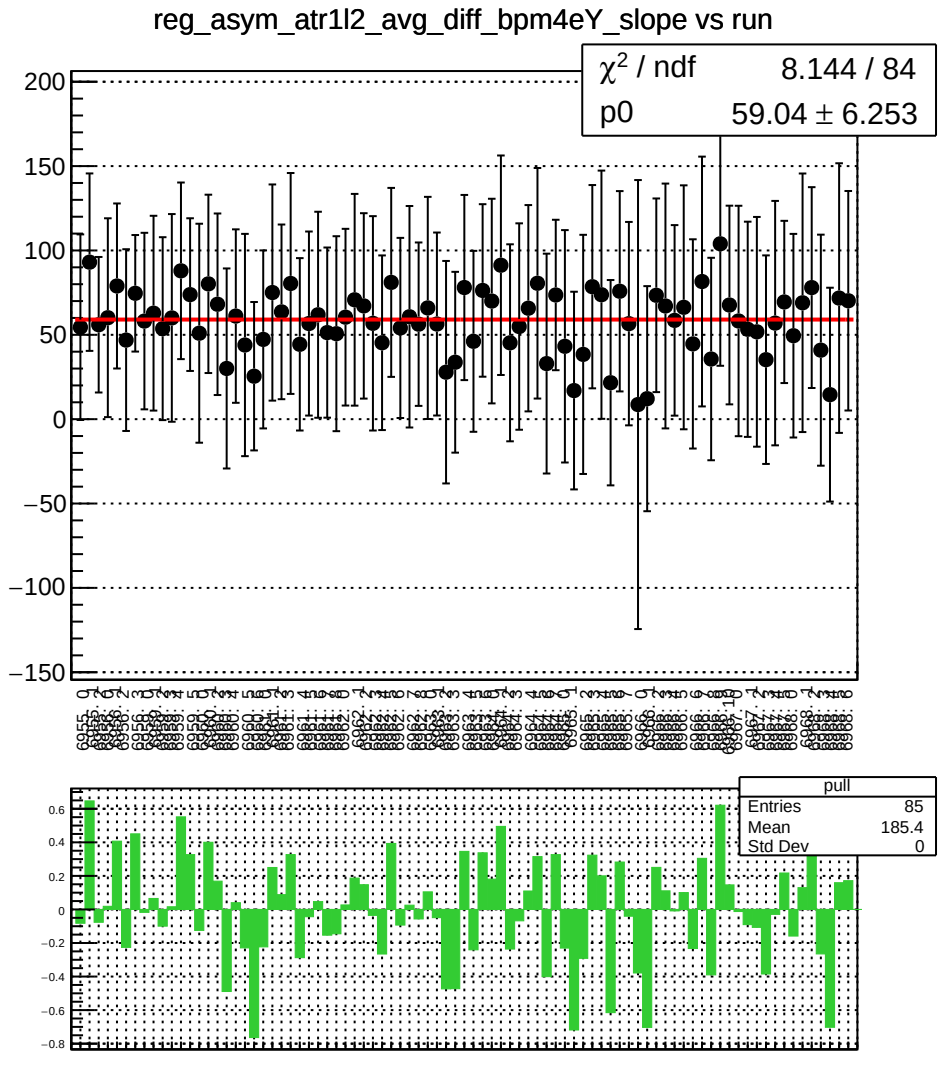

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.003 / 84
p0 −319 ± 8.145
−200
−250
−300
−350
−400
−450
pull
Entries 85
Mean 290.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

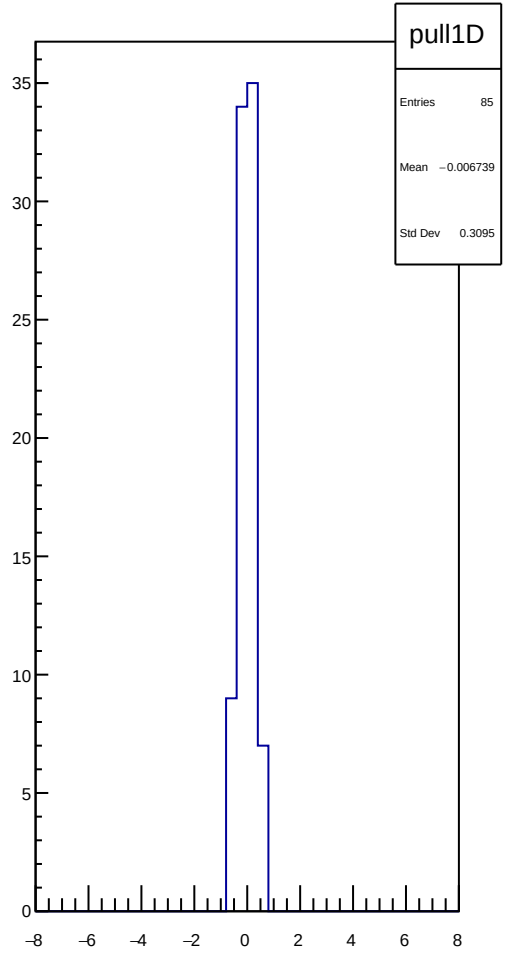

pull1D
Entries 85
Mean −0.008465
Std Dev 0.2869
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

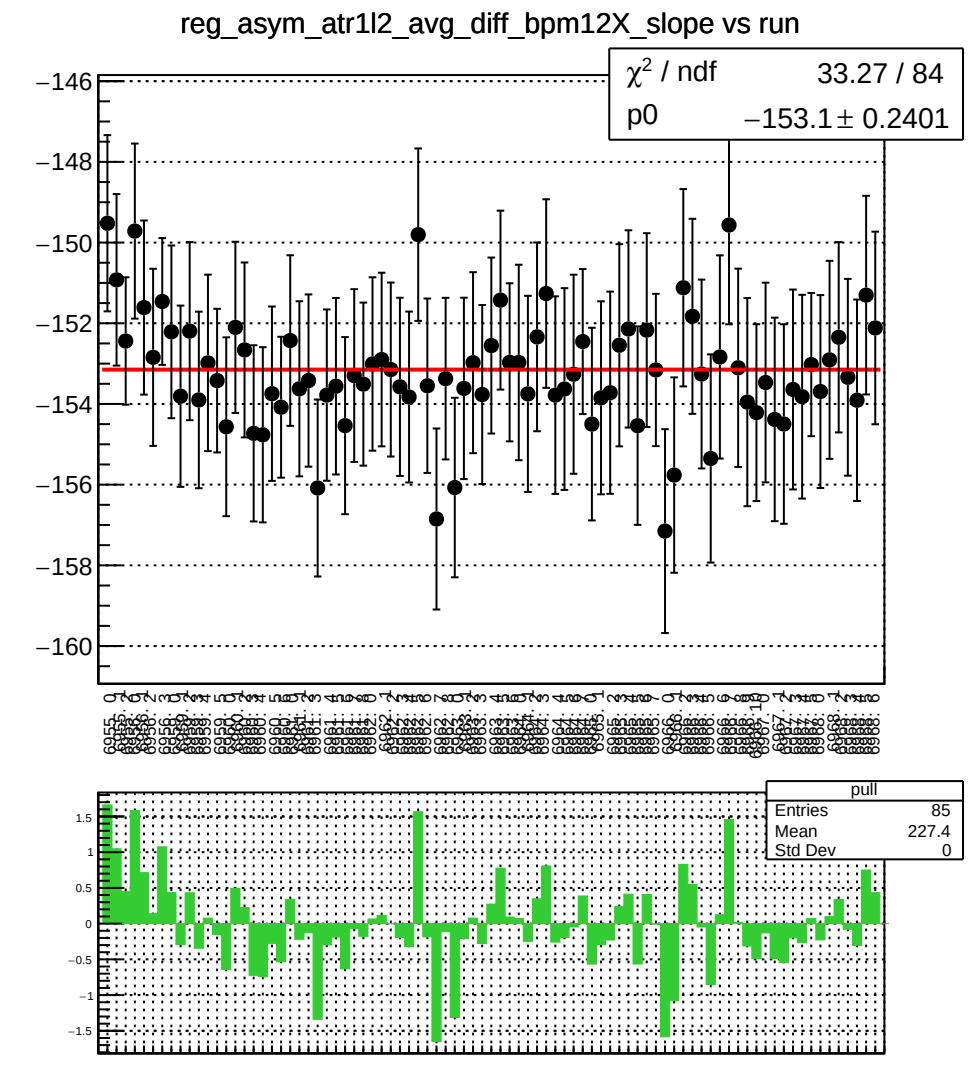

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.102 / 84
p0 10.88 ± 5.503
200
150
100
50
0
−50
−100
pull
Entries 85
Mean 192
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean 0.00611
Std Dev 0.3087
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

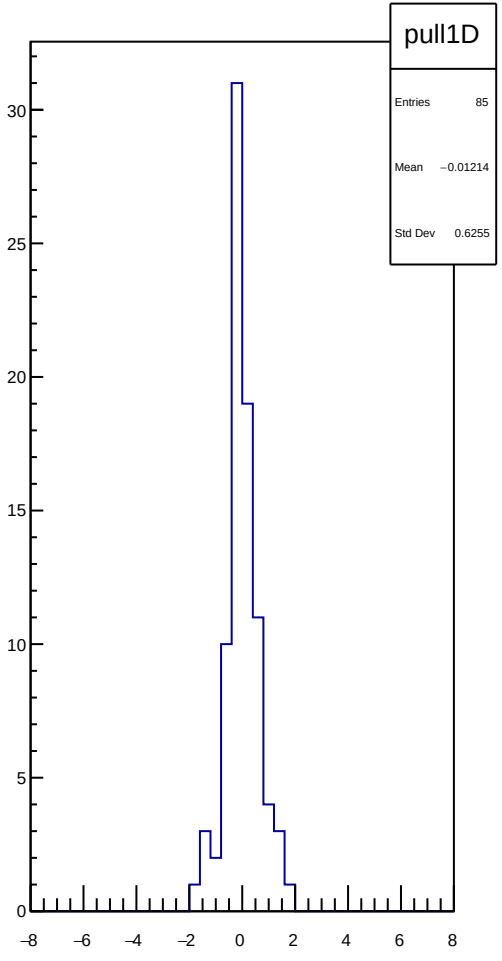

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.141 / 84
p0 236.7 ± 7.525
pull
Entries 85
Mean 299.2
Std Dev 0

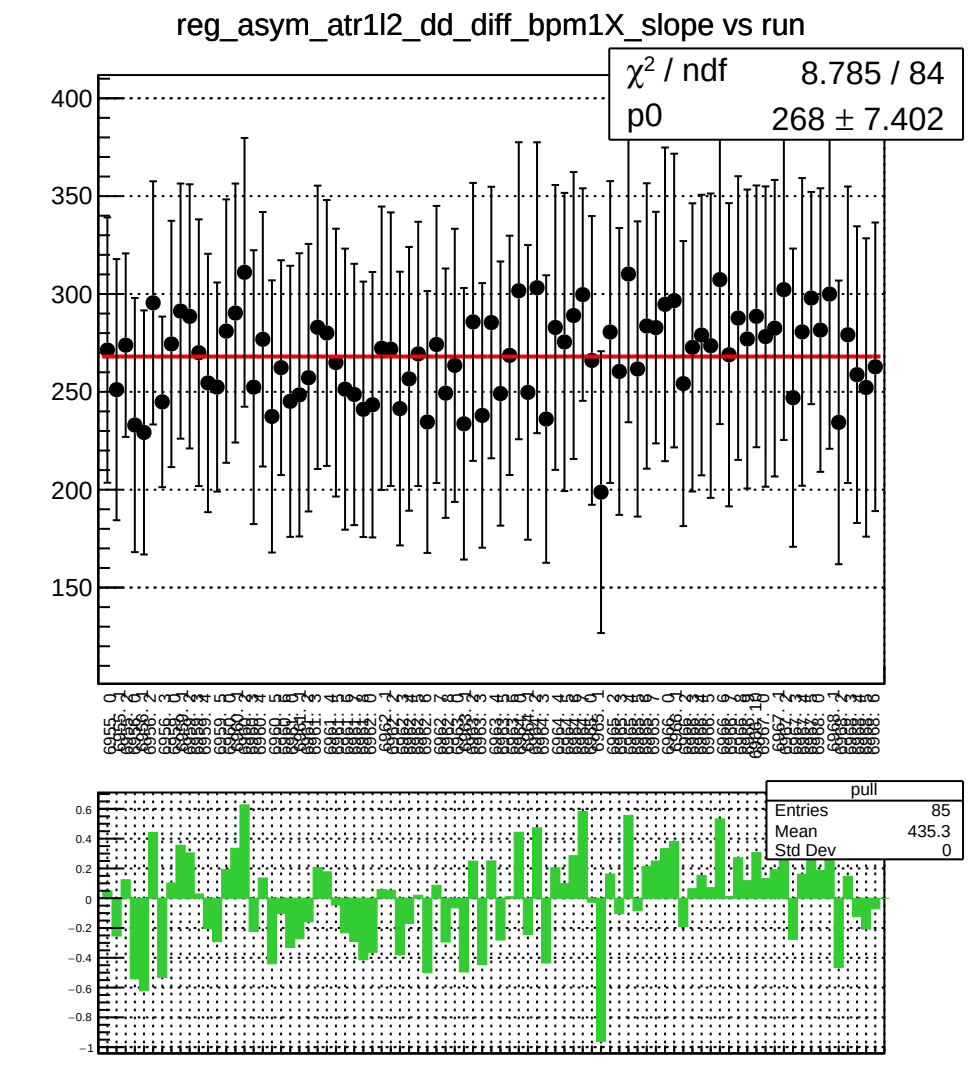

pull1D
Entries 85
Mean 0.00864
Std Dev 0.2897

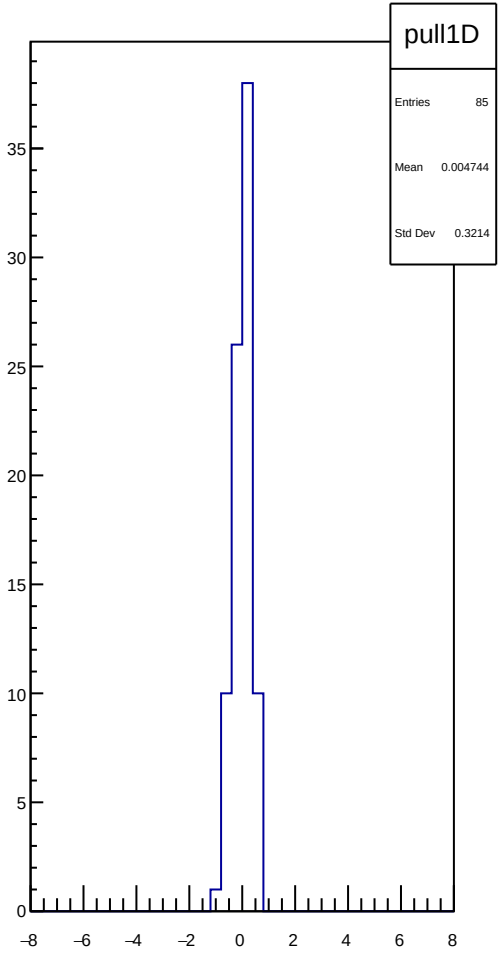

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.144 / 84
p0 59.04 ± 6.253
pull
Entries 85
Mean 185.4
Std Dev 0

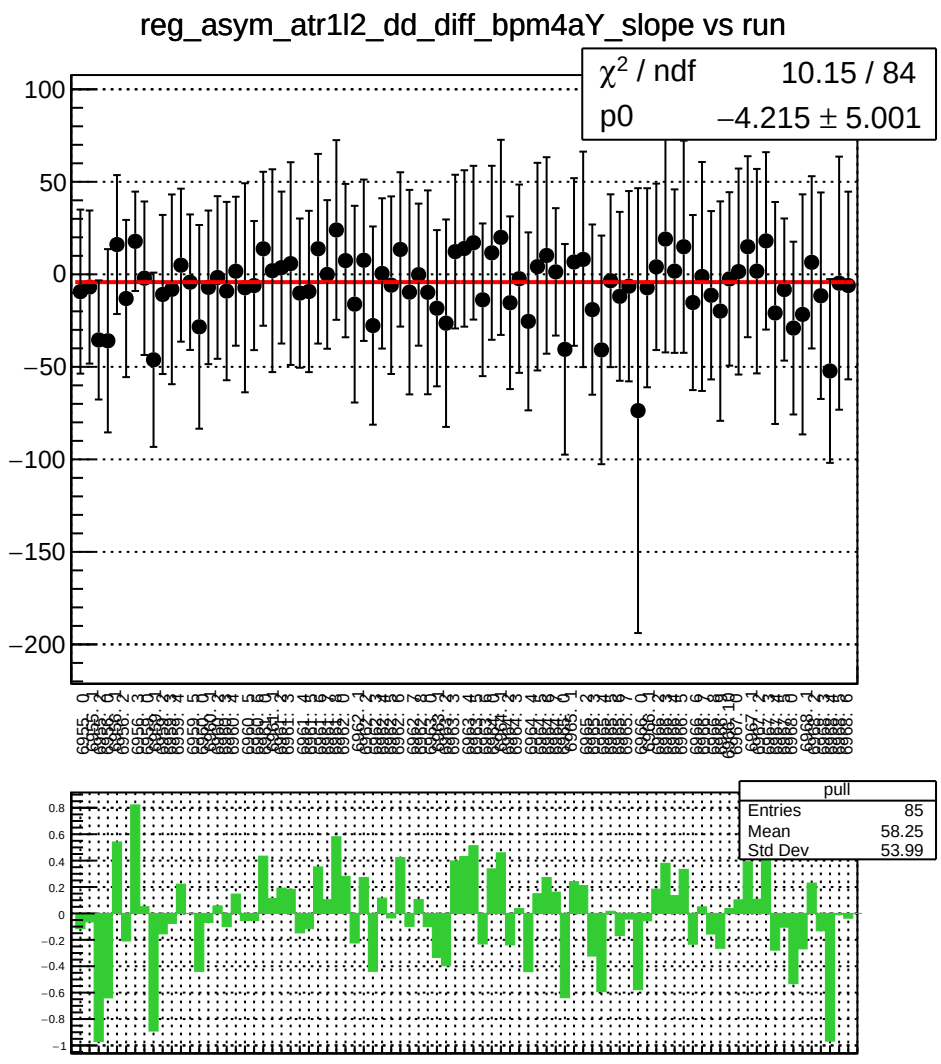

pull1D
Entries 85
Mean −0.006739
Std Dev 0.3095

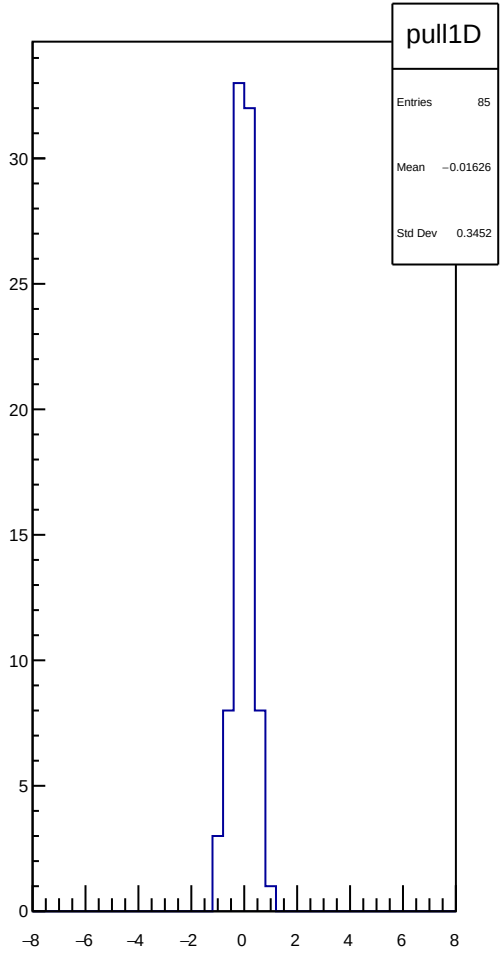

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 33.27 / 84
p0 −153.1 ± 0.2401
pull
Entries 85
Mean 227.4
Std Dev 0

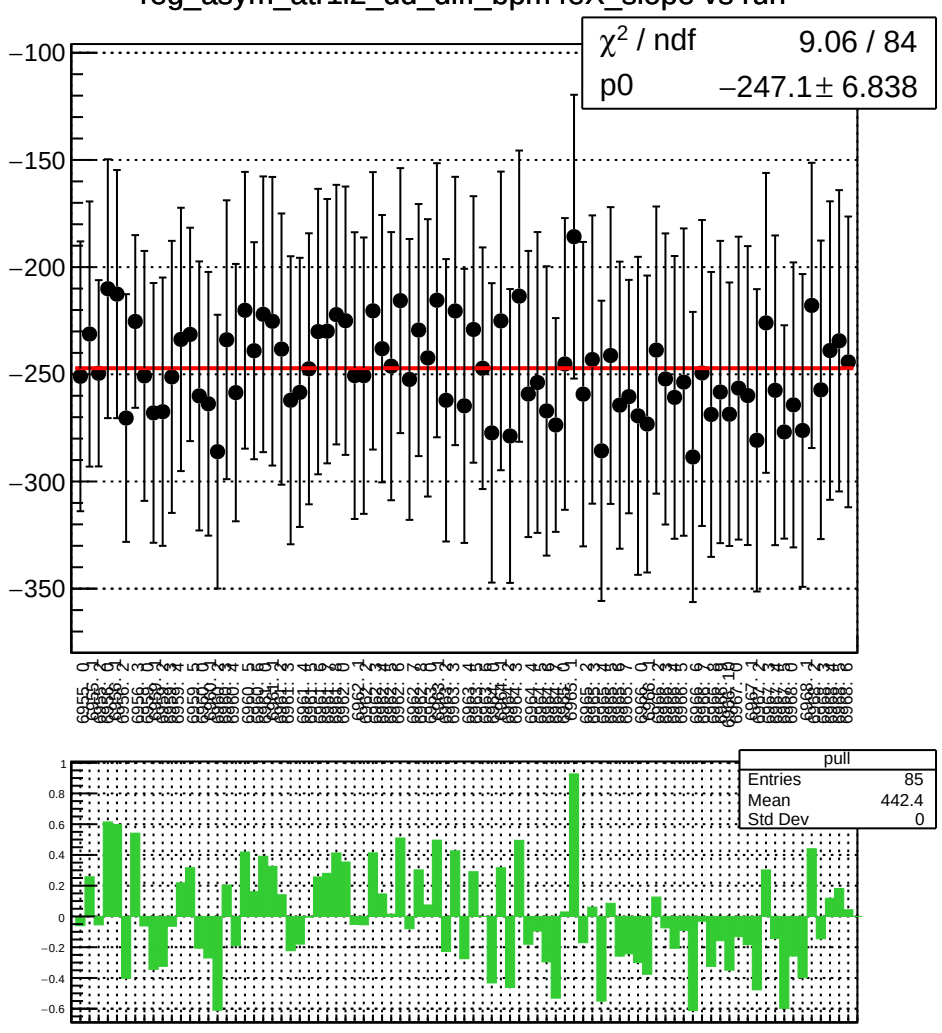

pull1D
Entries 85
Mean −0.01214
Std Dev 0.6255

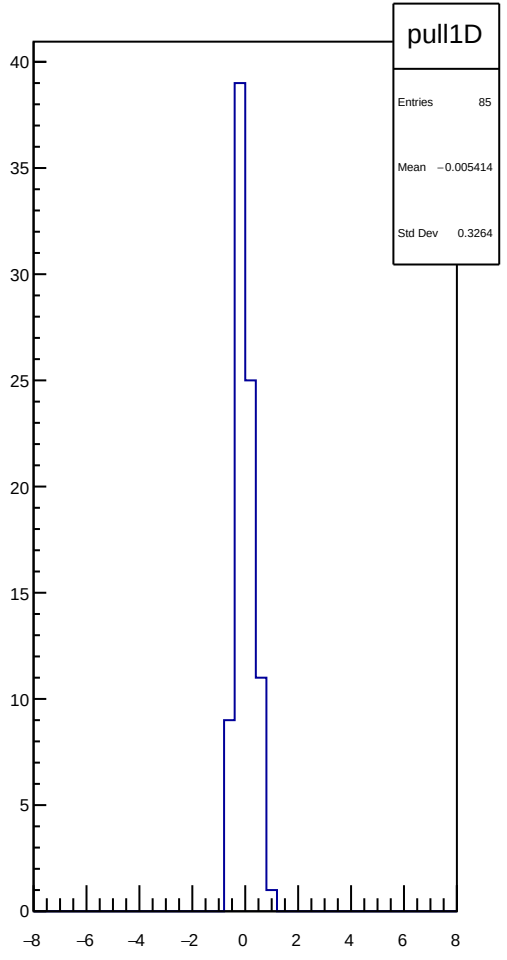

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.785 / 84
p0 268 ± 7.402
pull
Entries 85
Mean 435.3
Std Dev 0

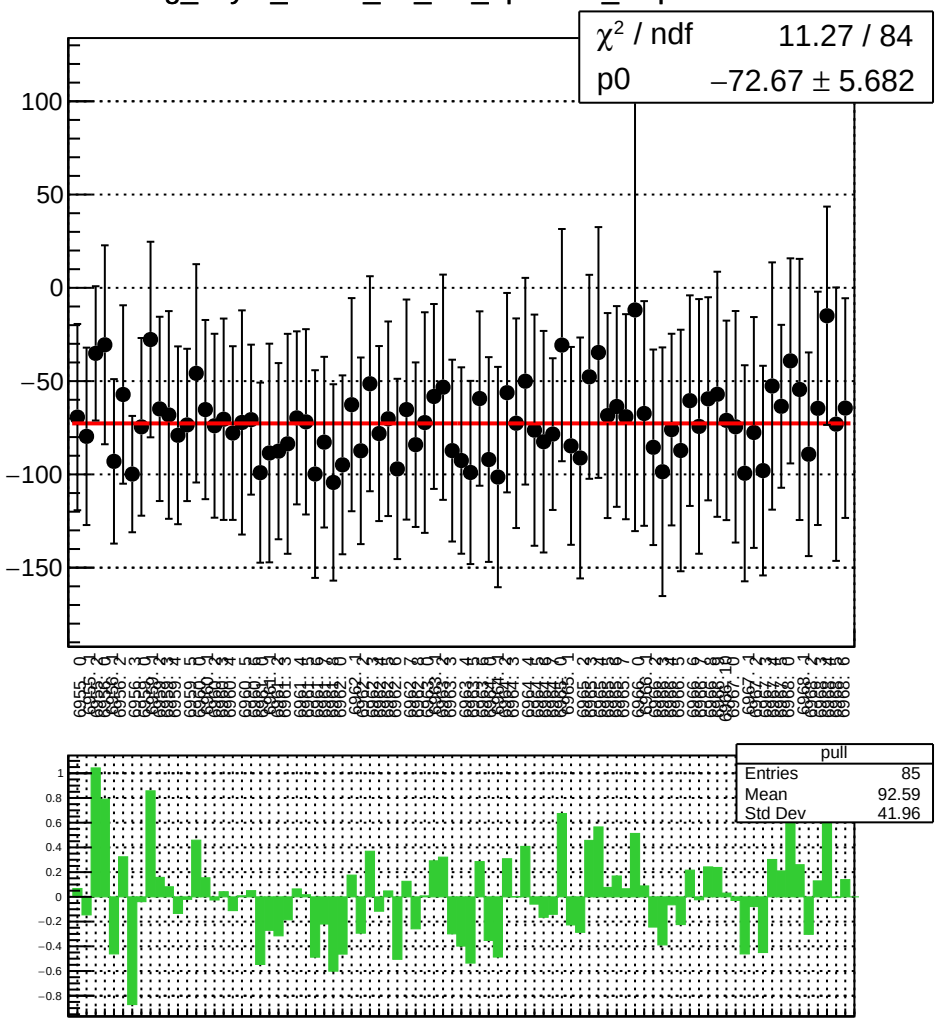

pull1D
Entries 85
Mean 0.004744
Std Dev 0.3214

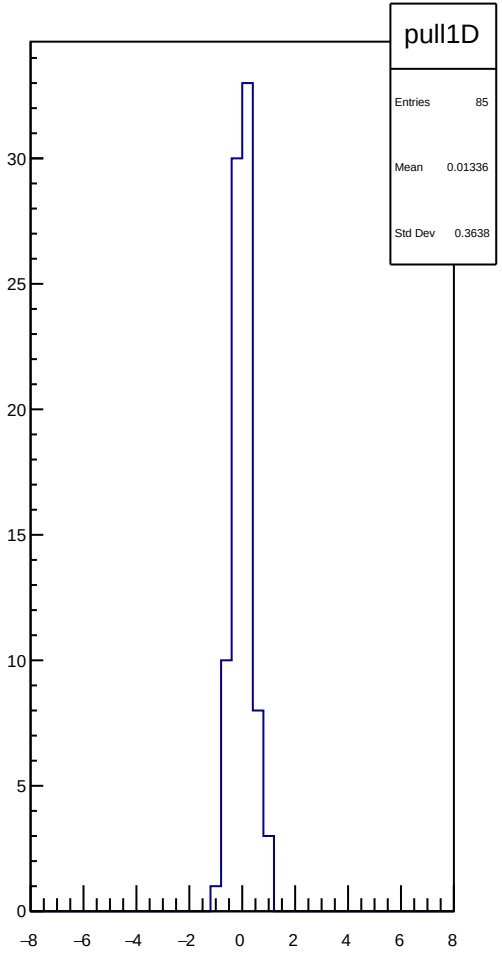

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.15 / 84
p0 −4.215 ± 5.001
pull
Entries 85
Mean 58.25
Std Dev 53.99

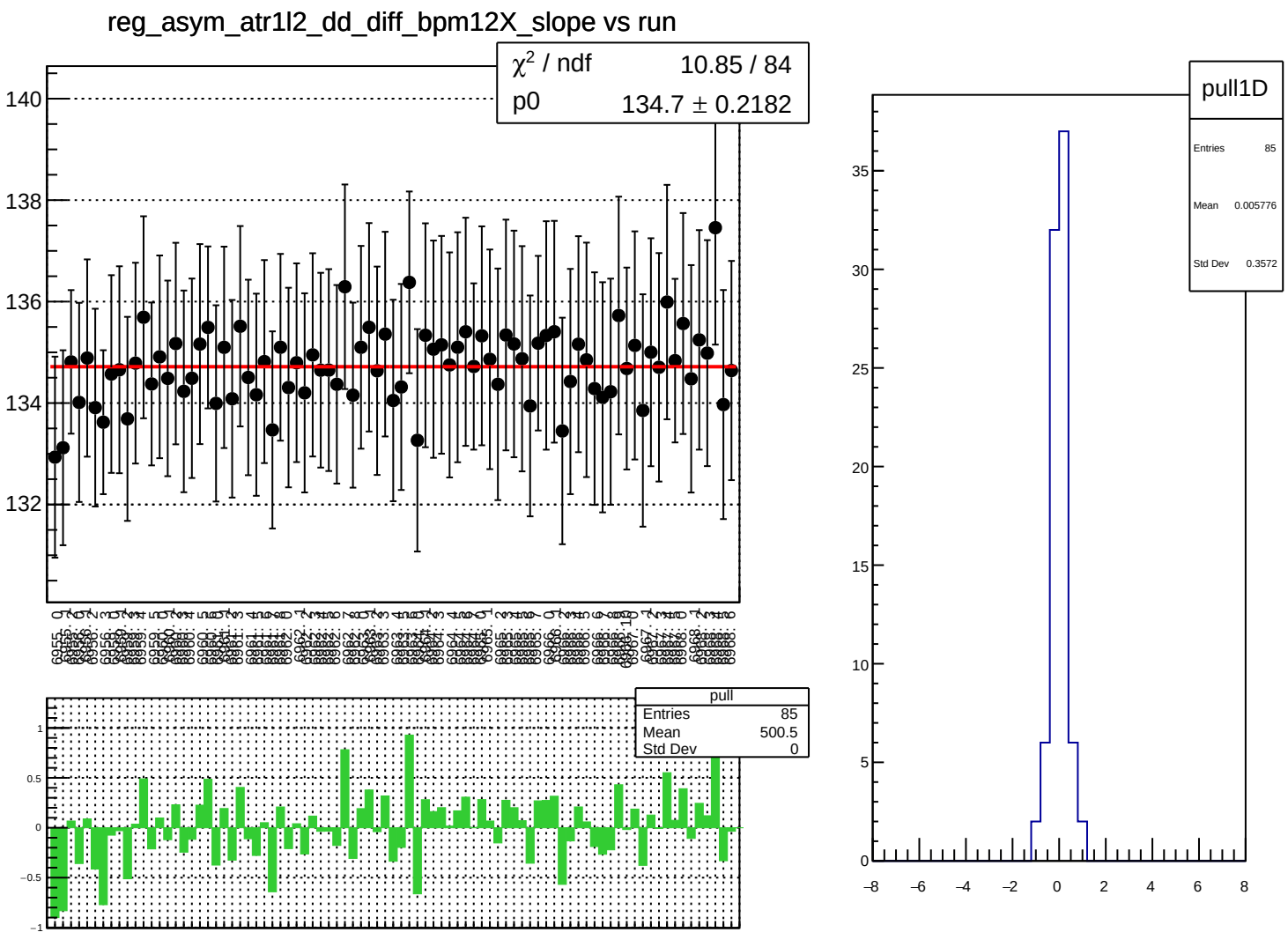

pull1D
Entries 85
Mean −0.01626
Std Dev 0.3452

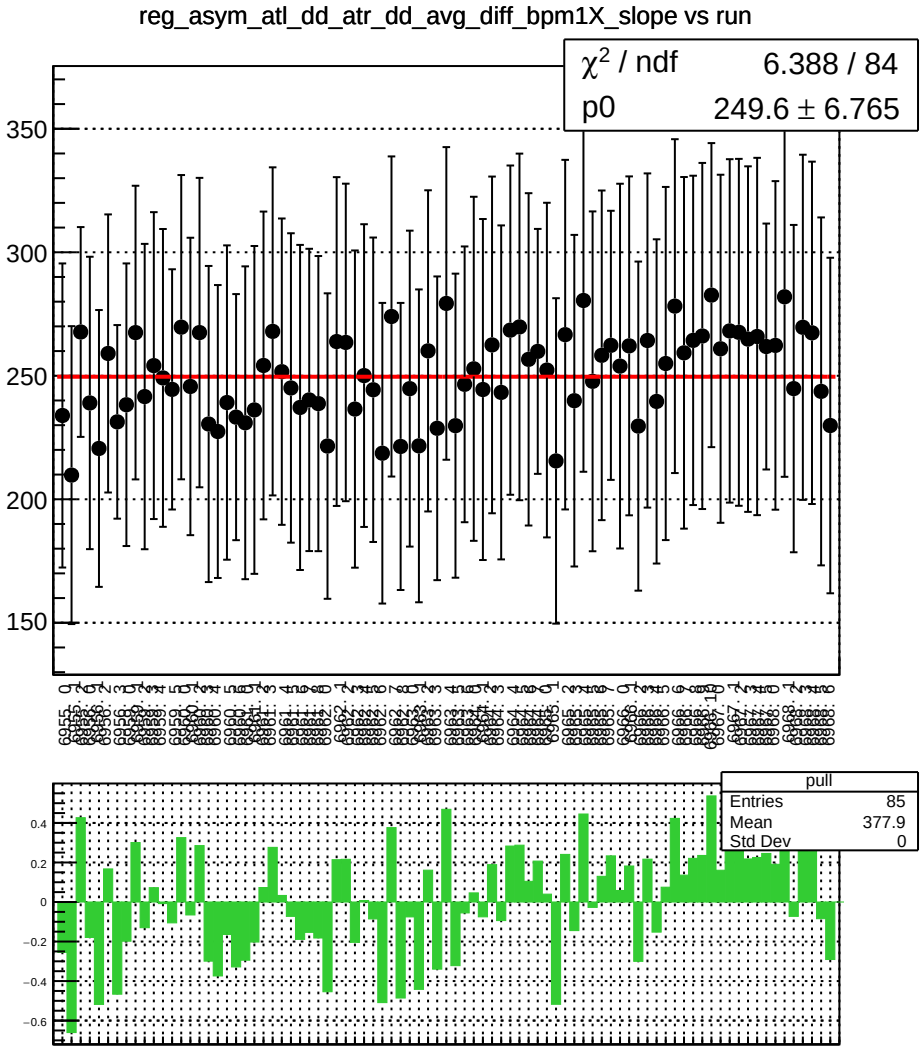

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.06 / 84
p0 −247.1± 6.838
pull
Entries 85
Mean 442.4
Std Dev 0

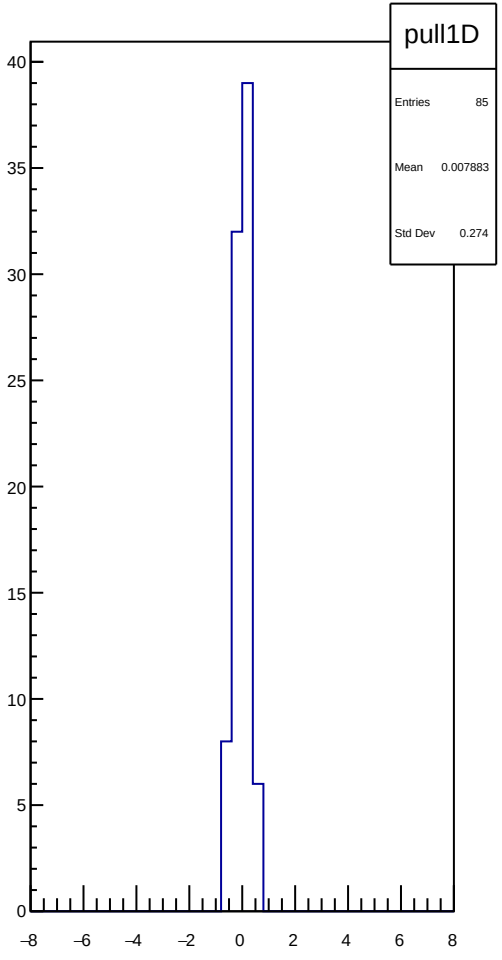

pull1D
Entries 85
Mean −0.005414
Std Dev 0.3264

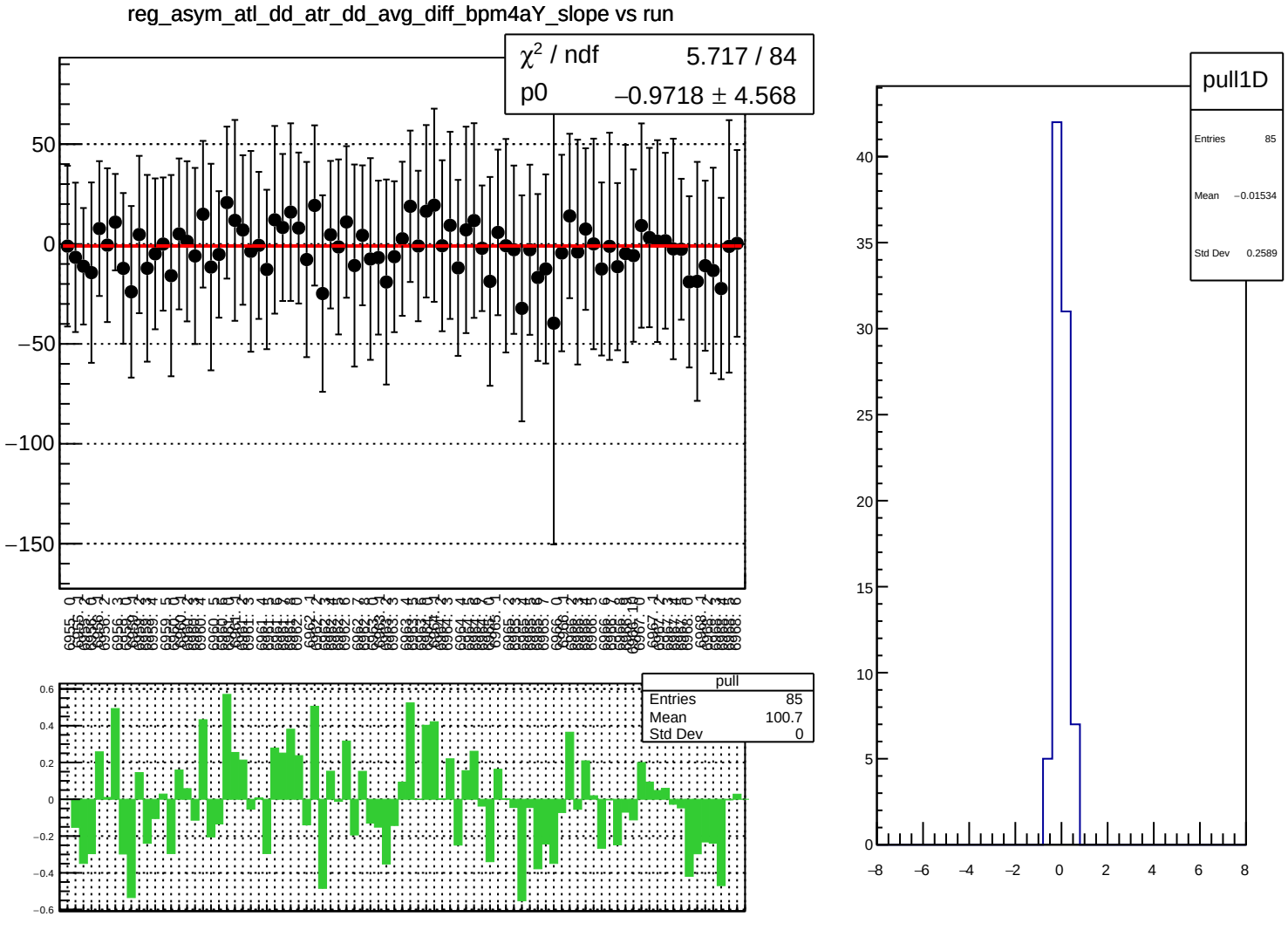

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.27 / 84
p0 −72.67 ± 5.682
pull
Entries 85
Mean 92.59
Std Dev 41.96

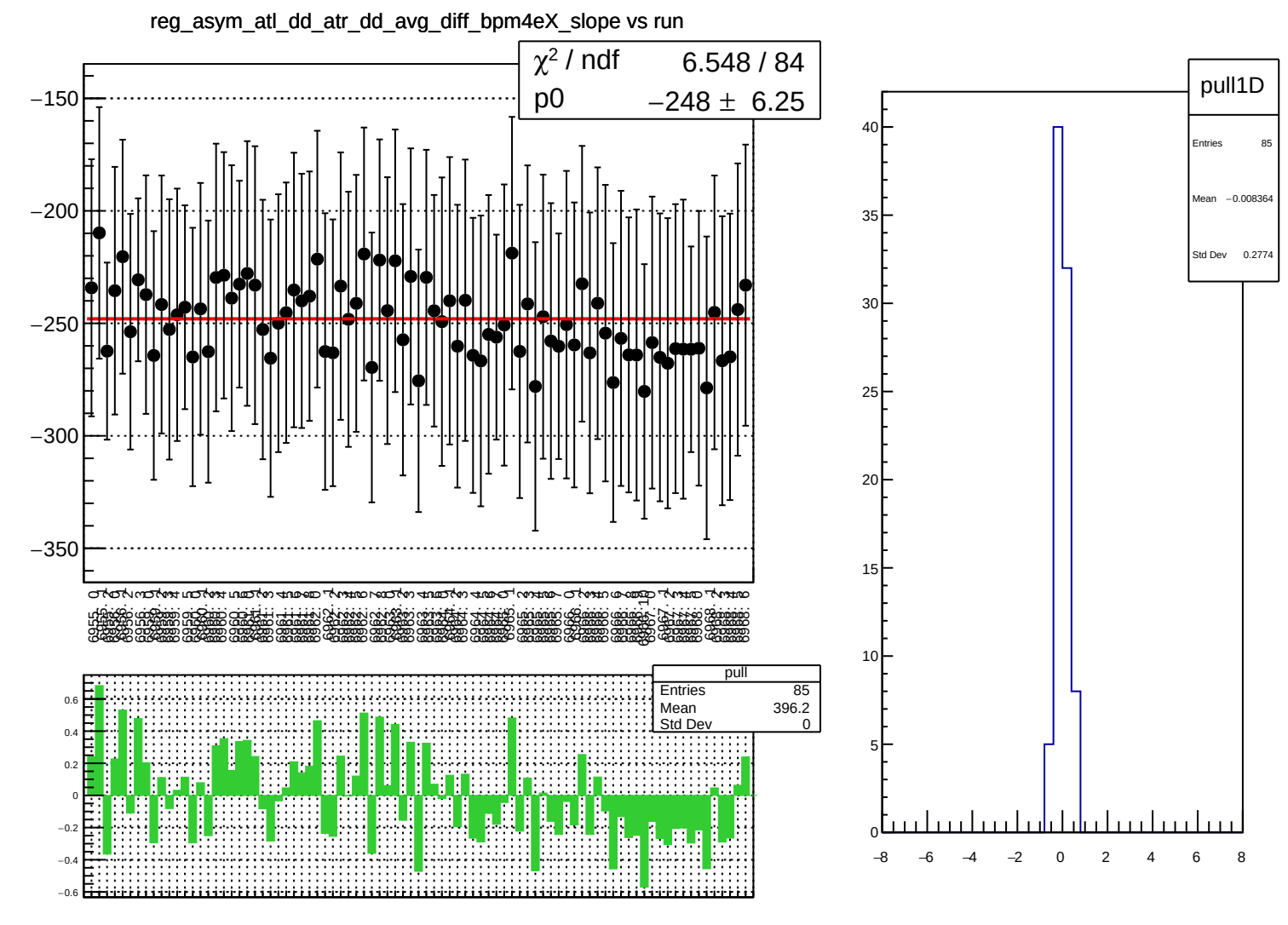

pull1D
Entries 85
Mean 0.01336
Std Dev 0.3638

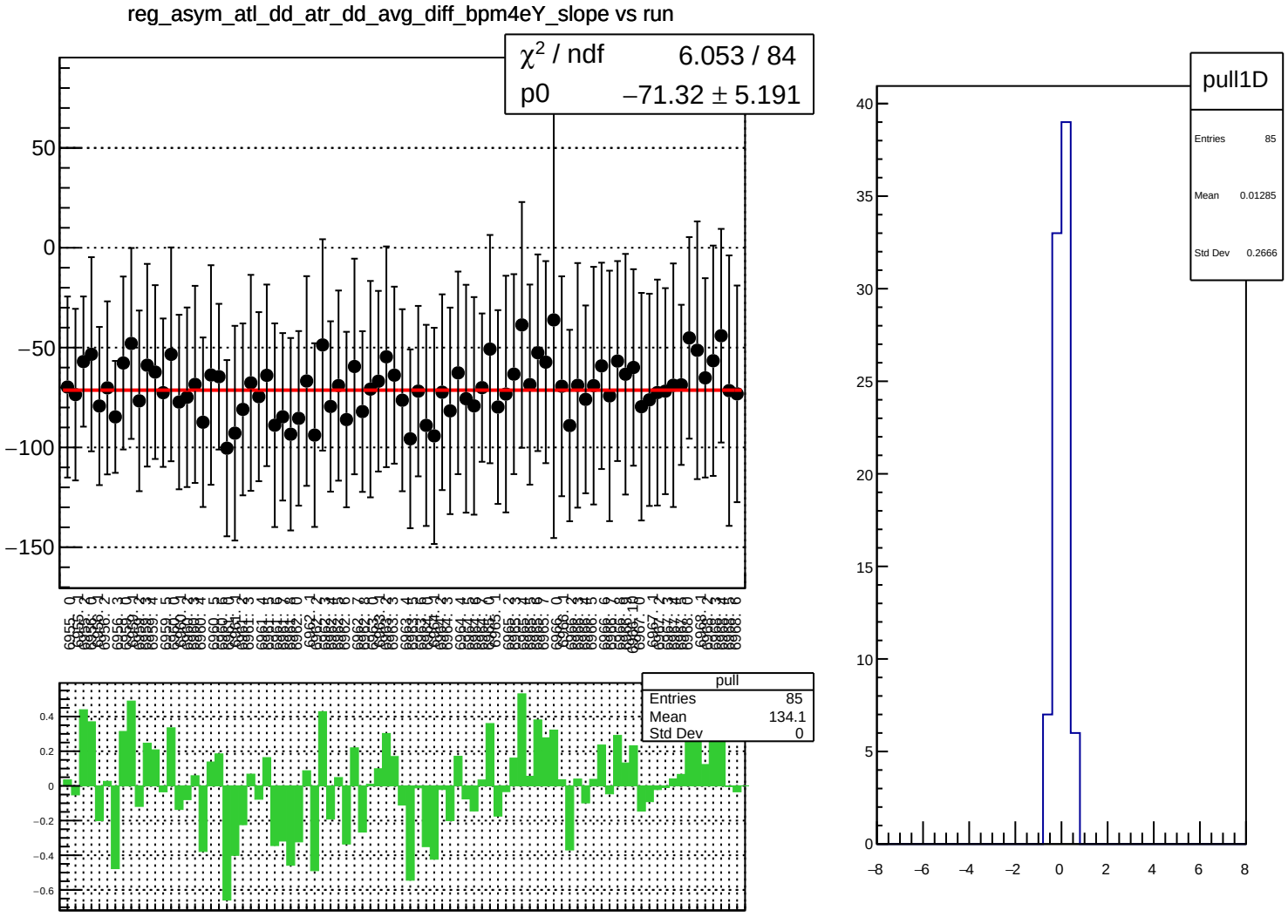

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 10.85 / 84
p0 134.7 ± 0.2182
140
138
136
134
132
pull
Entries 85
Mean 500.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean 0.005776
Std Dev 0.3572
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

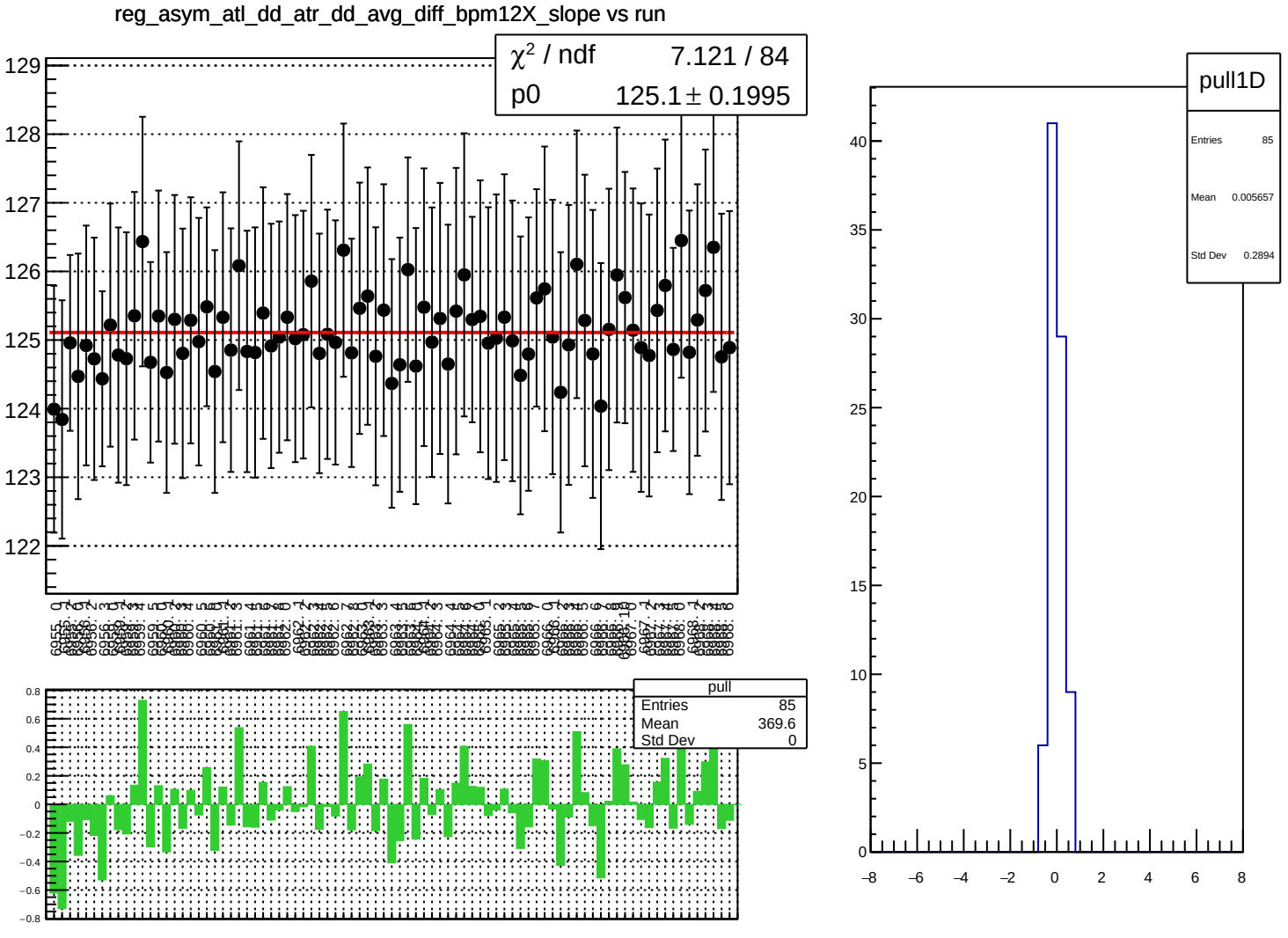

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 6.388 / 84
p0 249.6 ± 6.765
350
300
250
200
150
pull
Entries 85
Mean 377.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

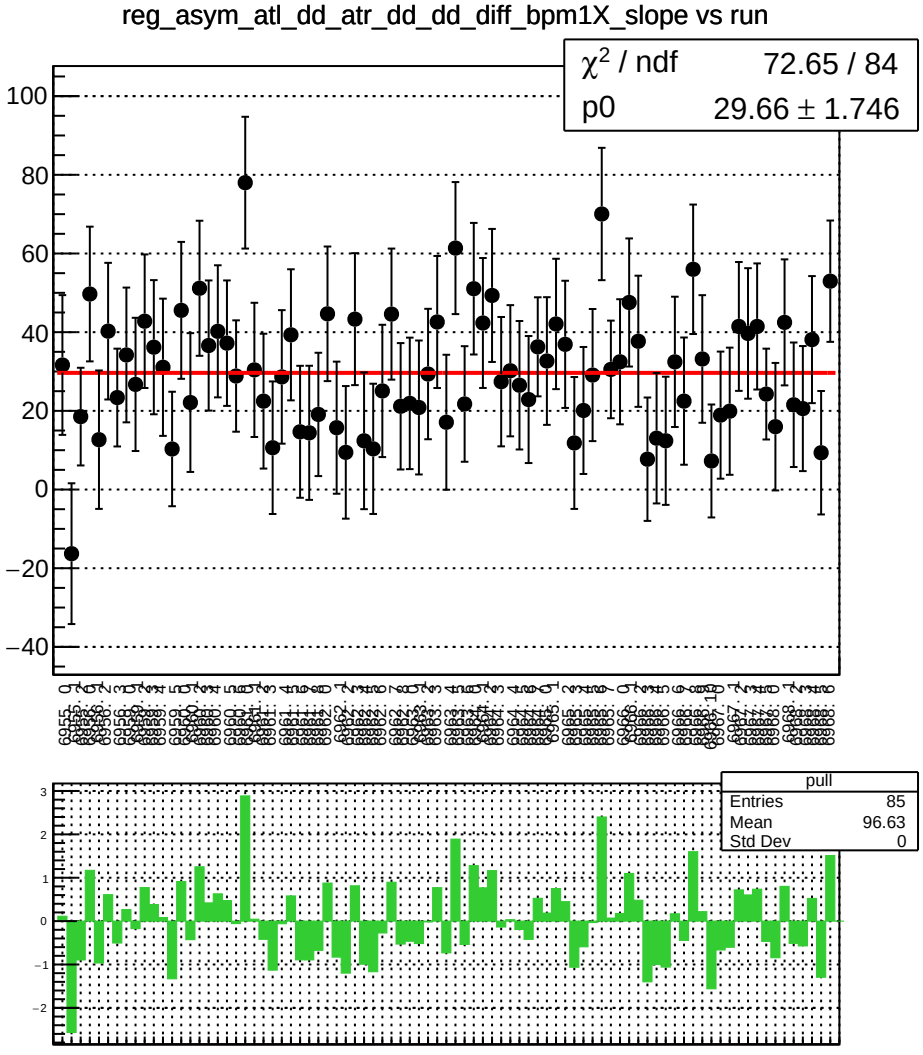

pull1D
Entries 85
Mean 0.007883
Std Dev 0.274
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

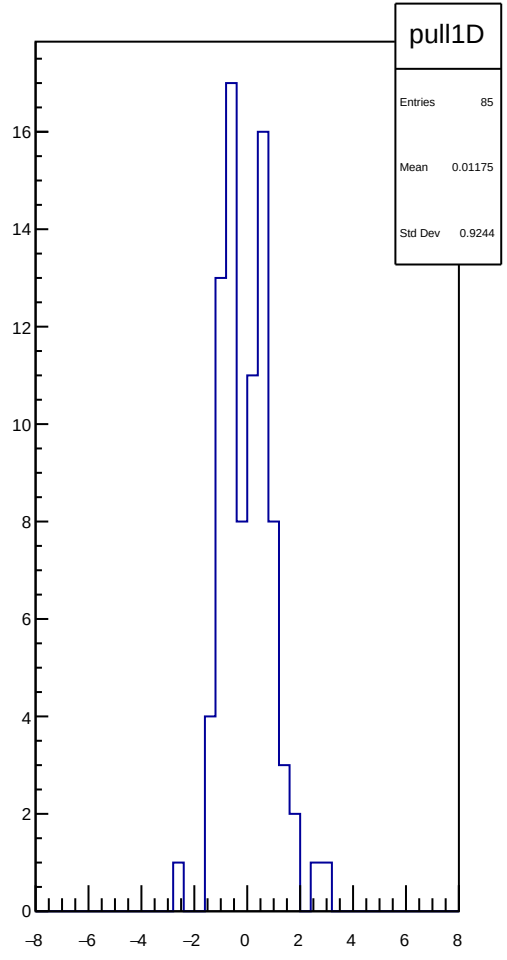

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.717 / 84
p0 −0.9718 ± 4.568
50
0
−50
−100
−150
pull
Entries 85
Mean 100.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.01534
Std Dev 0.2589
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

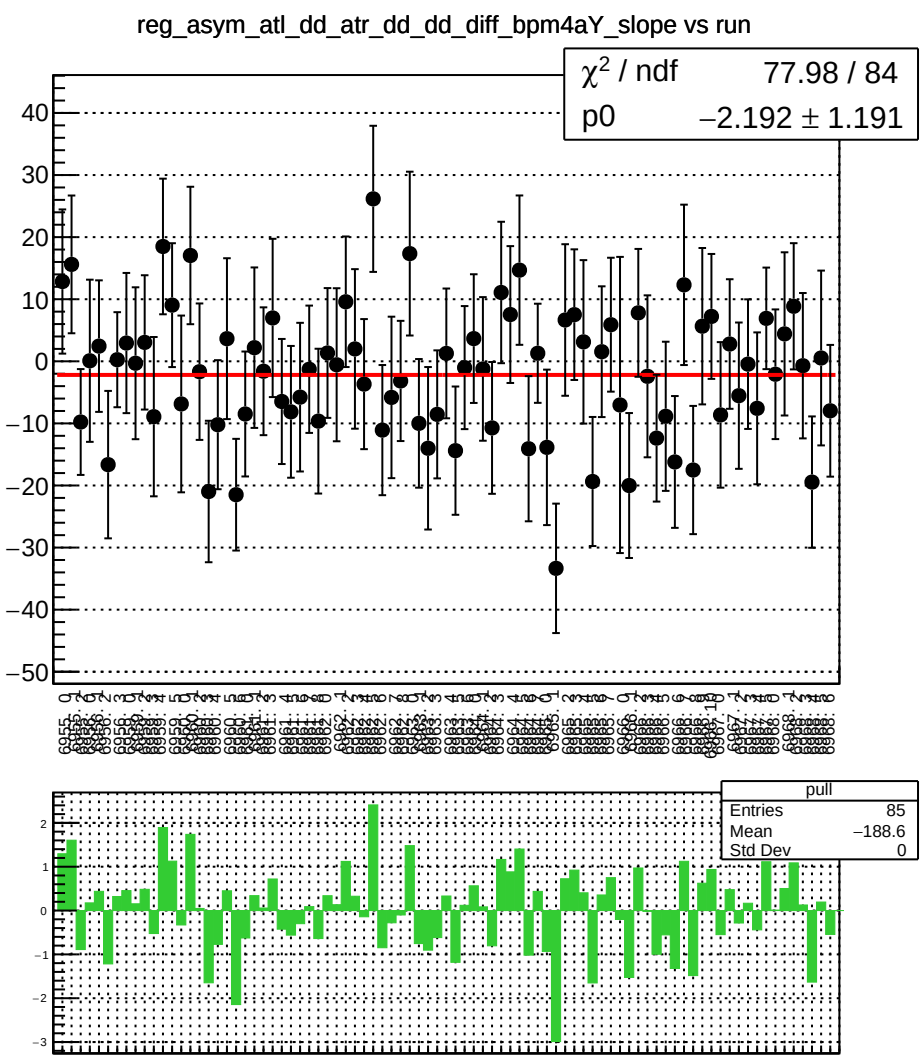

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.548 / 84
p0 −248 ± 6.25
−150
−200
−250
−300
−350
pull
Entries 85
Mean 396.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.008364
Std Dev 0.2774
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

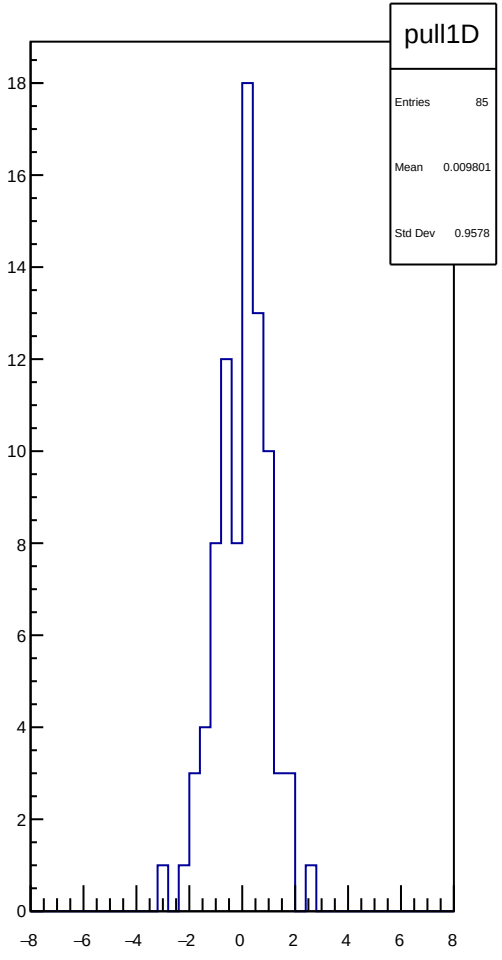

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.053 / 84
p0 −71.32 ± 5.191
50
0
−50
−100
−150
pull
Entries 85
Mean 134.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean 0.01285
Std Dev 0.2666
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

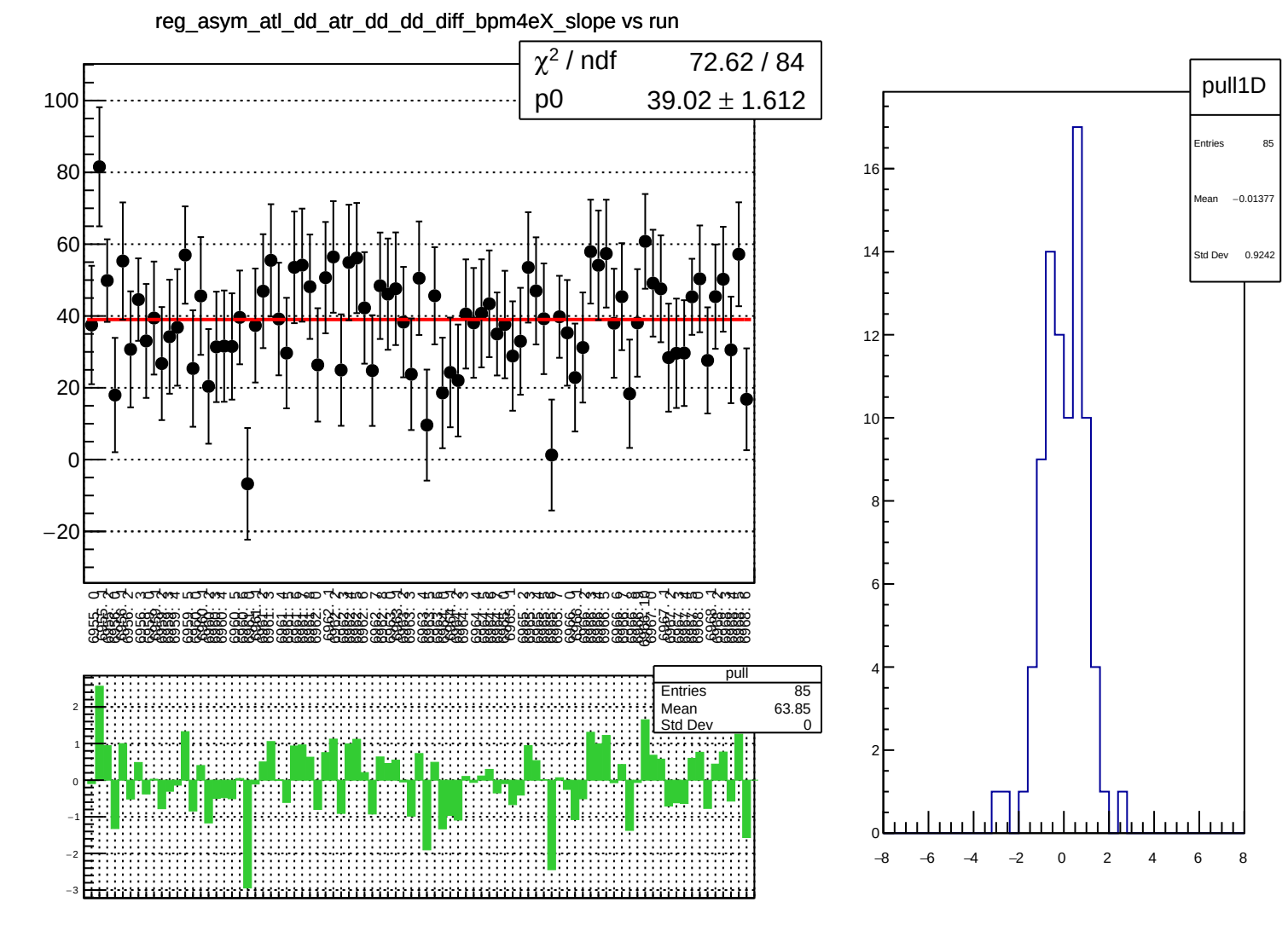

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 7.121 / 84
p0 125.1 ± 0.1995
pull
Entries 85
Mean 369.6
Std Dev 0
pull1D
Entries 85
Mean 0.005657
Std Dev 0.2894

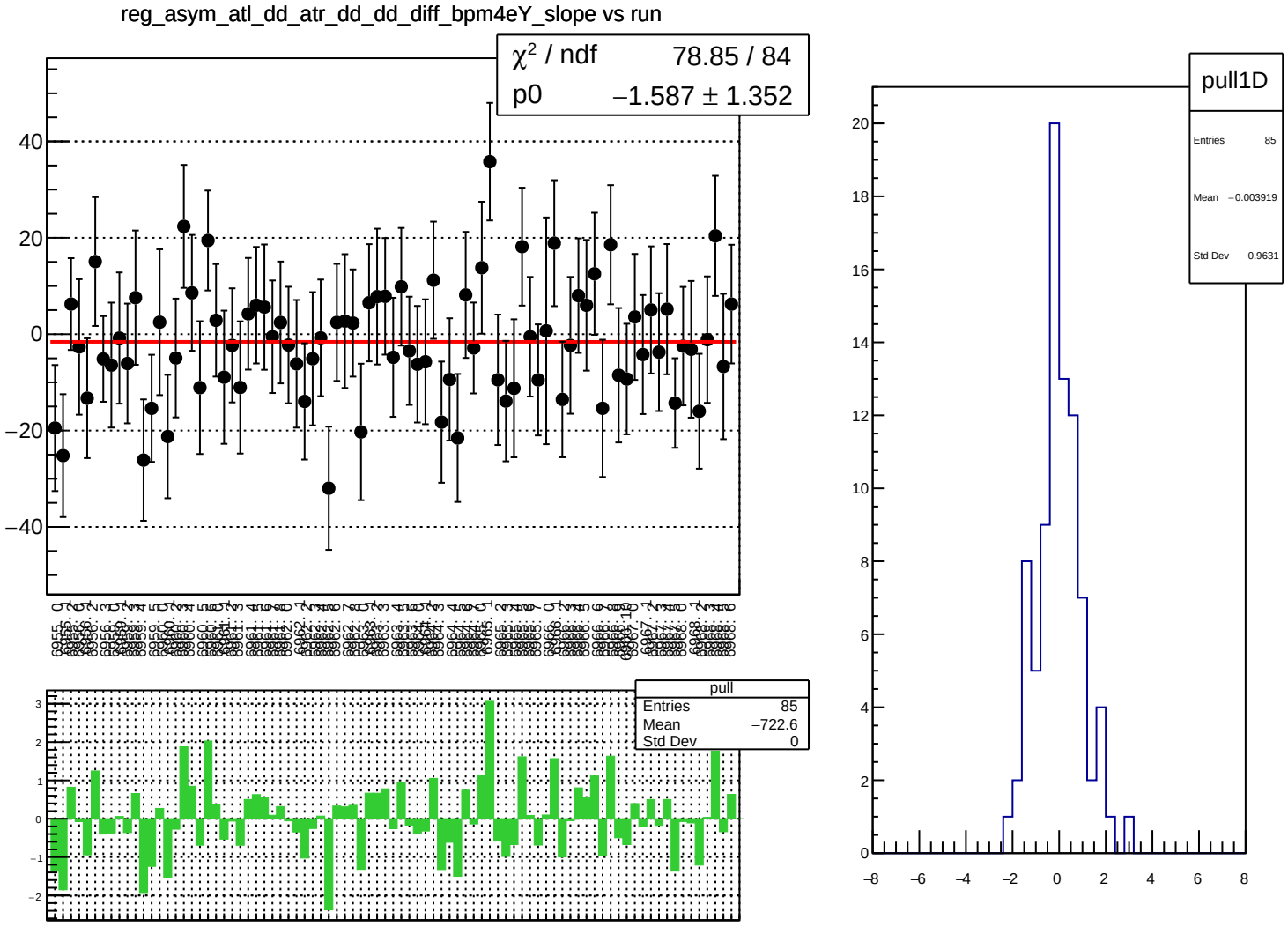

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 72.65 / 84
p0 29.66 ± 1.746
pull
Entries 85
Mean 96.63
Std Dev 0

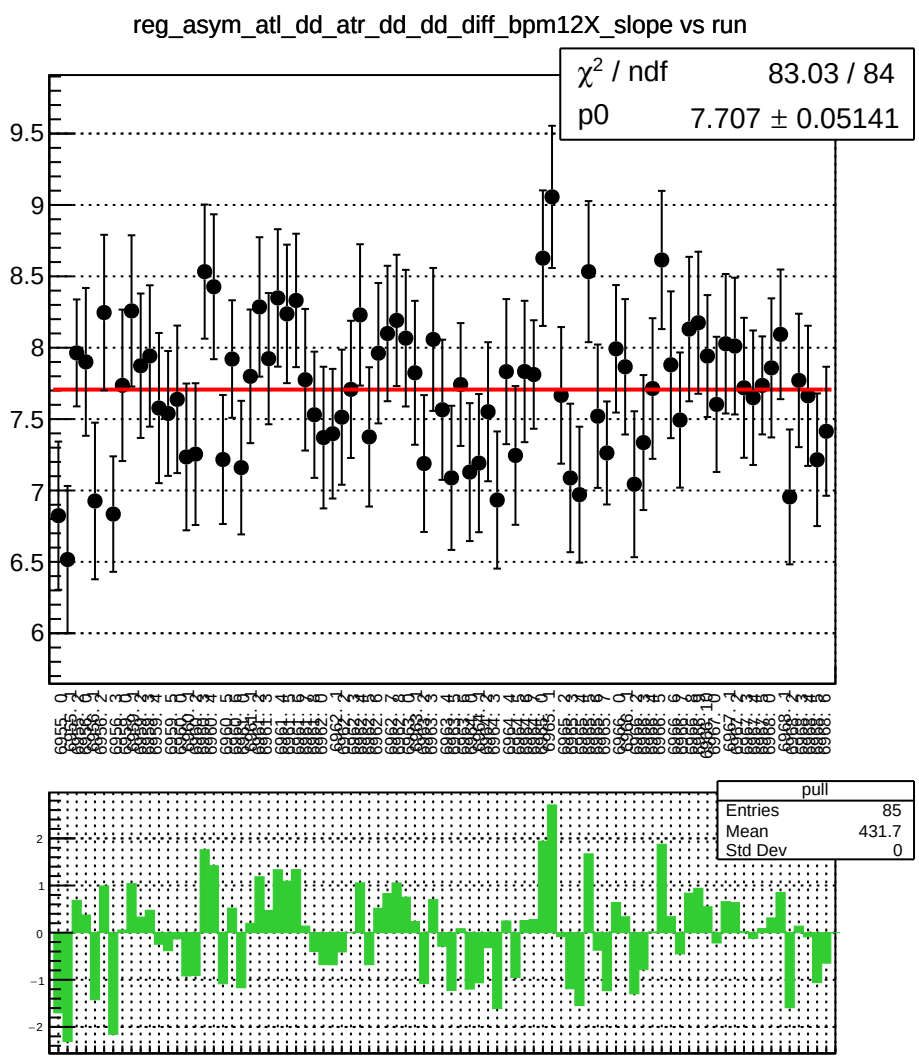

pull1D
Entries 85
Mean 0.01175
Std Dev 0.9244

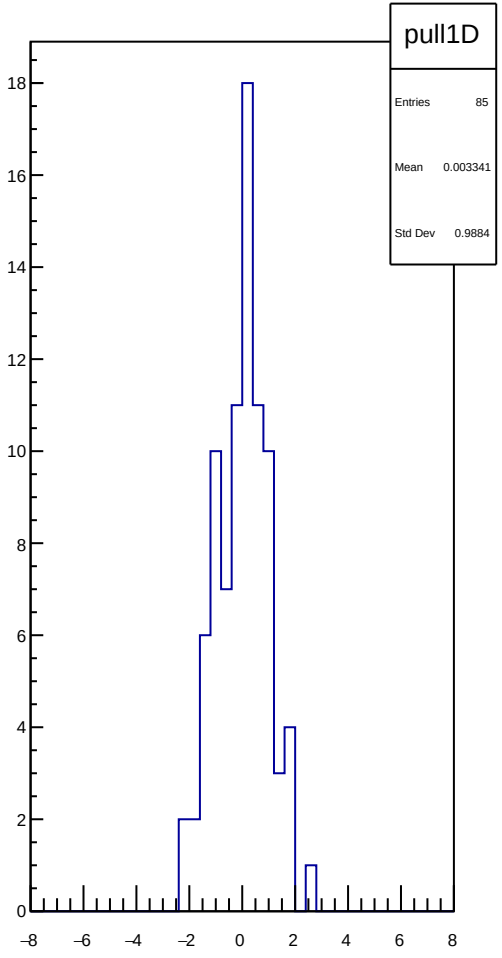

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.98 / 84
p0 −2.192 ± 1.191
pull
Entries 85
Mean −188.6
Std Dev 0

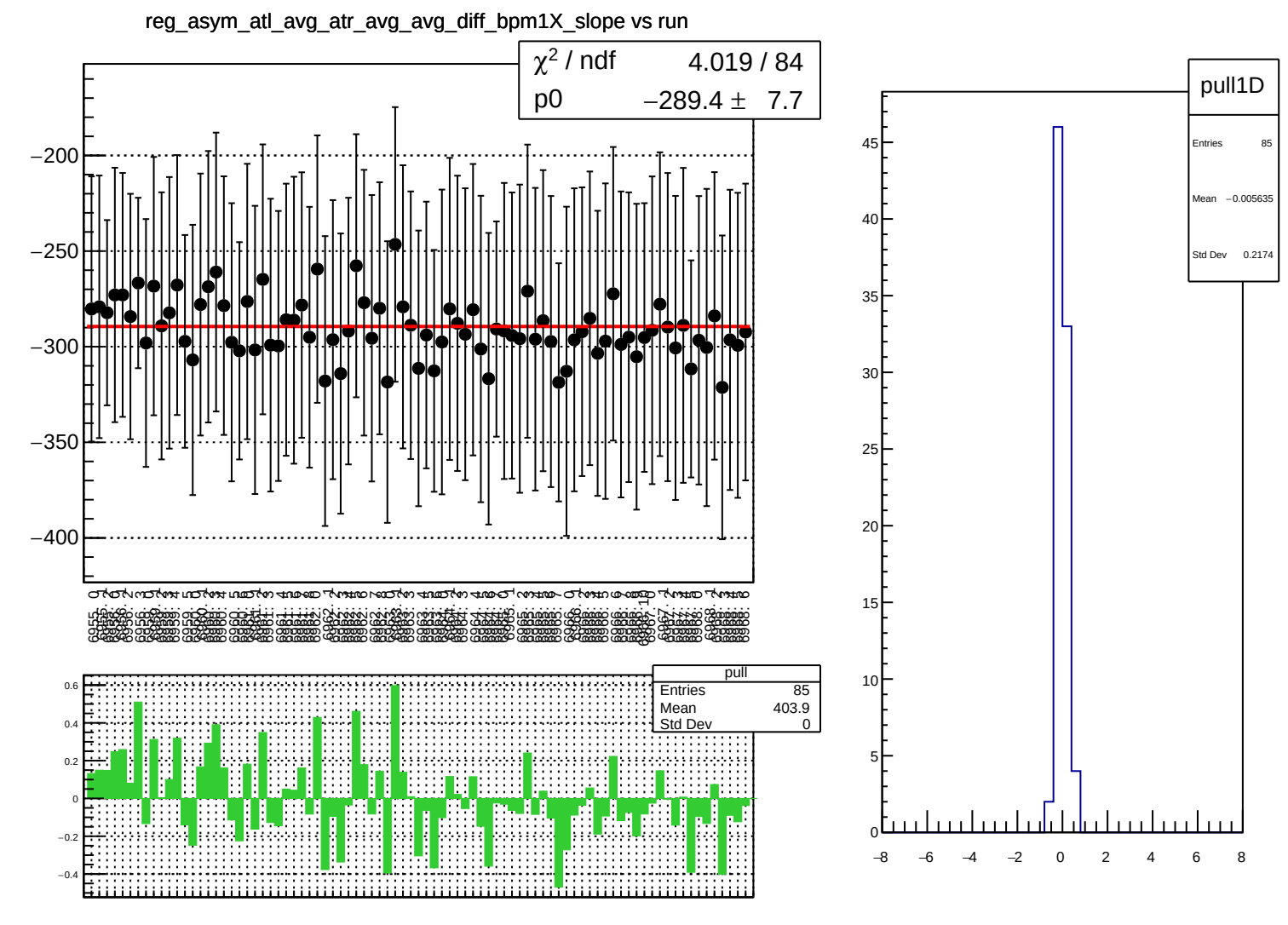

pull1D
Entries 85
Mean 0.009801
Std Dev 0.9578

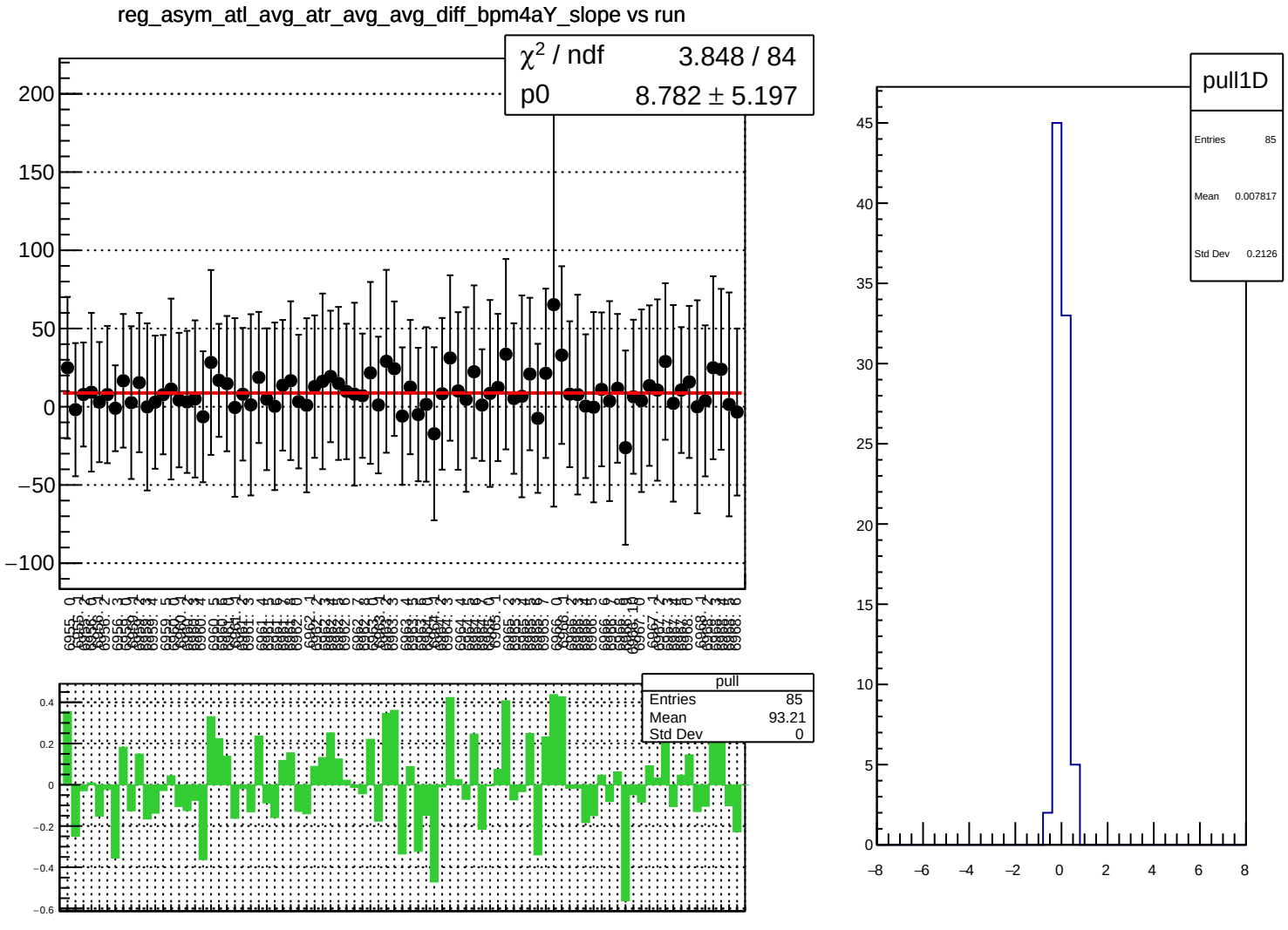

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.62 / 84
p0 39.02 ± 1.612
pull
Entries 85
Mean 63.85
Std Dev 0
pull1D
Entries 85
Mean −0.01377
Std Dev 0.9242

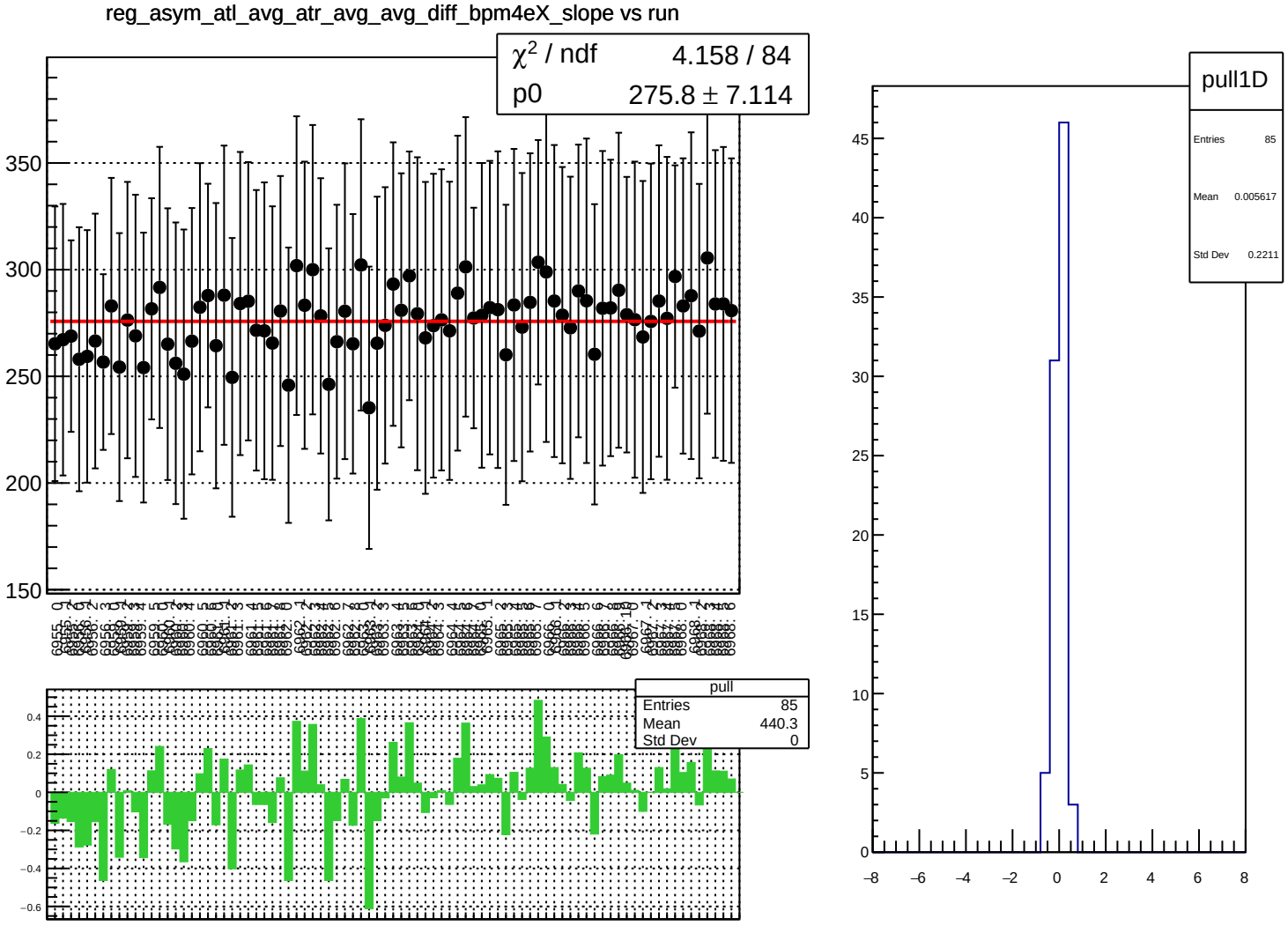

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.85 / 84
p0 −1.587 ± 1.352
pull
Entries 85
Mean −722.6
Std Dev 0
pull1D
Entries 85
Mean −0.003919
Std Dev 0.9631

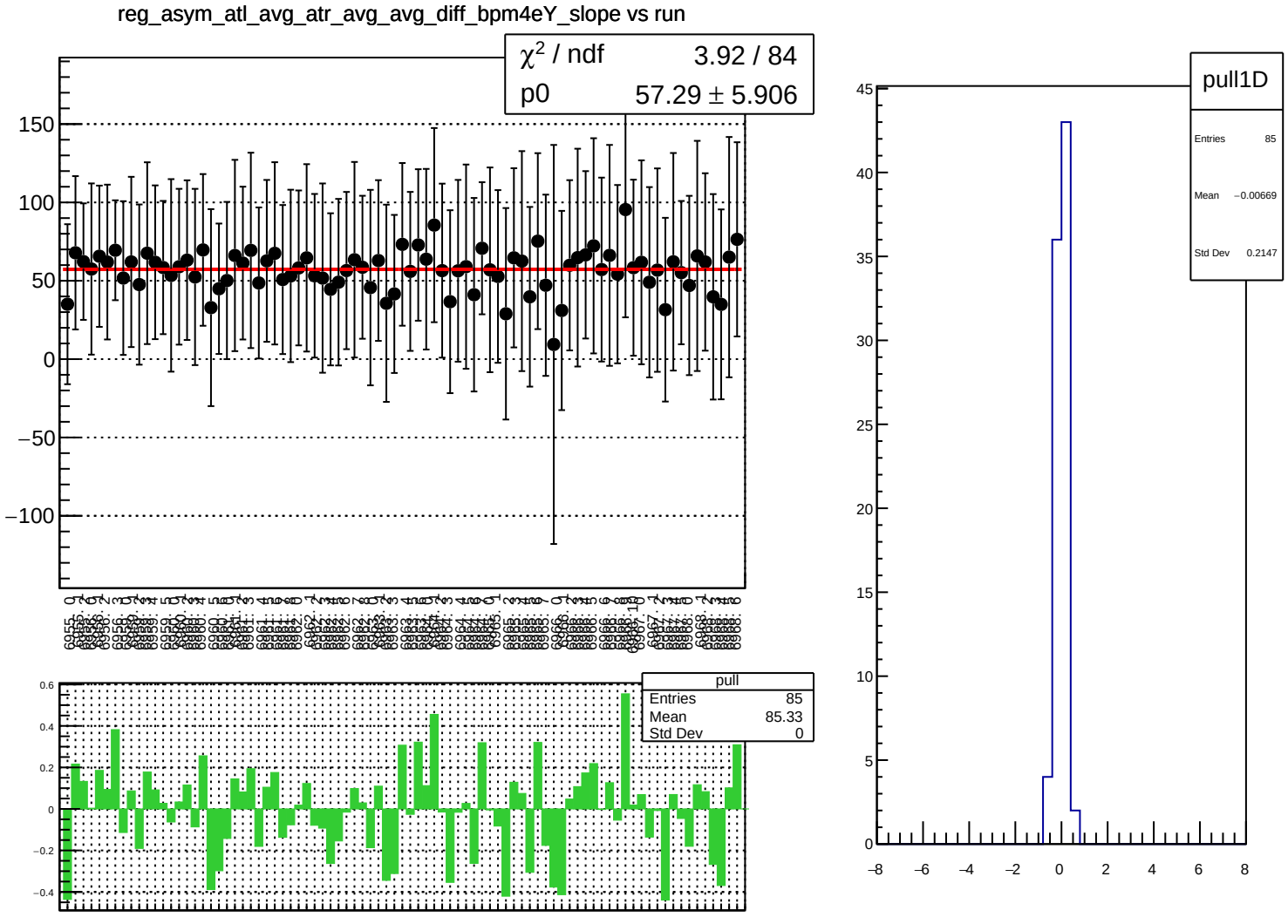

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 83.03 / 84
p0 7.707 ± 0.05141
pull
Entries 85
Mean 431.7
Std Dev 0

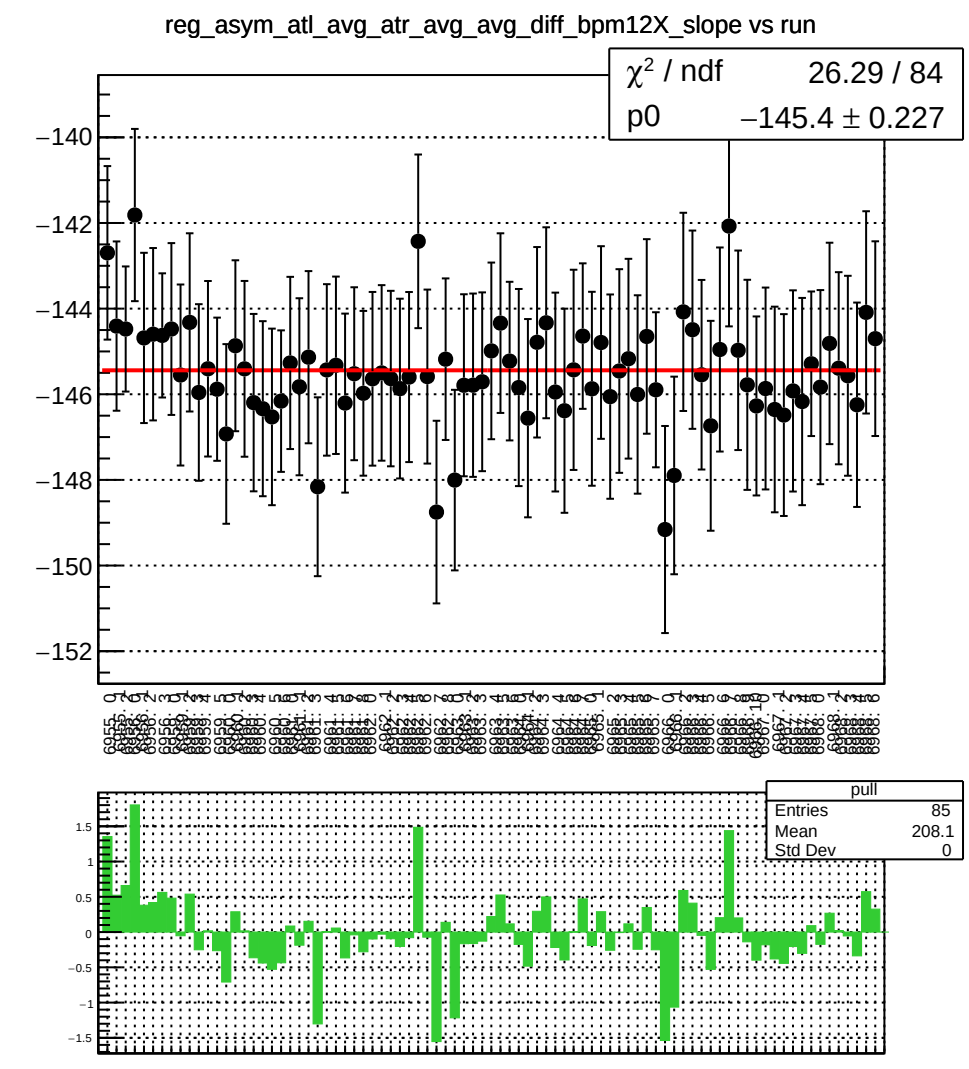

pull1D
Entries 85
Mean 0.003341
Std Dev 0.9884

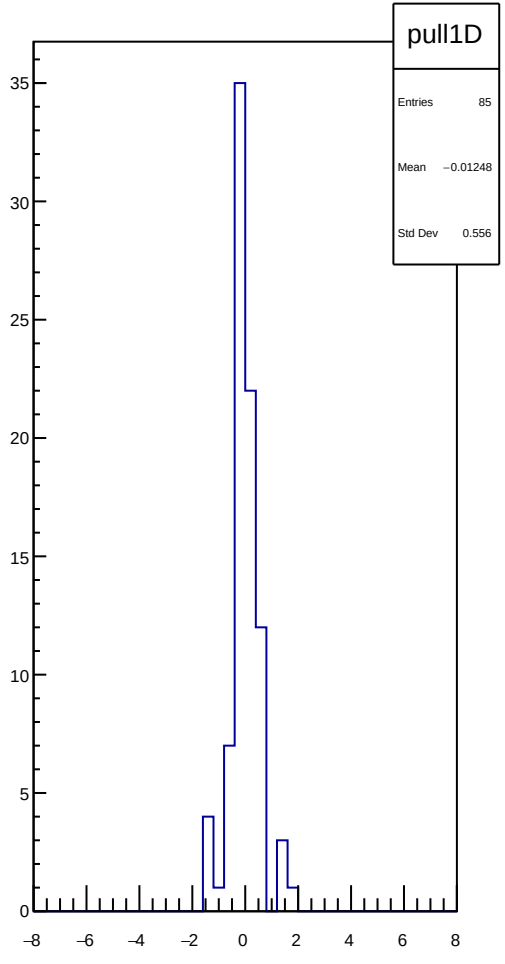

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.019 / 84
p0 −289.4 ± 7.7
−200
−250
−300
−350
−400
pull
Entries 85
Mean 403.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 85
Mean −0.005635
Std Dev 0.2174
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

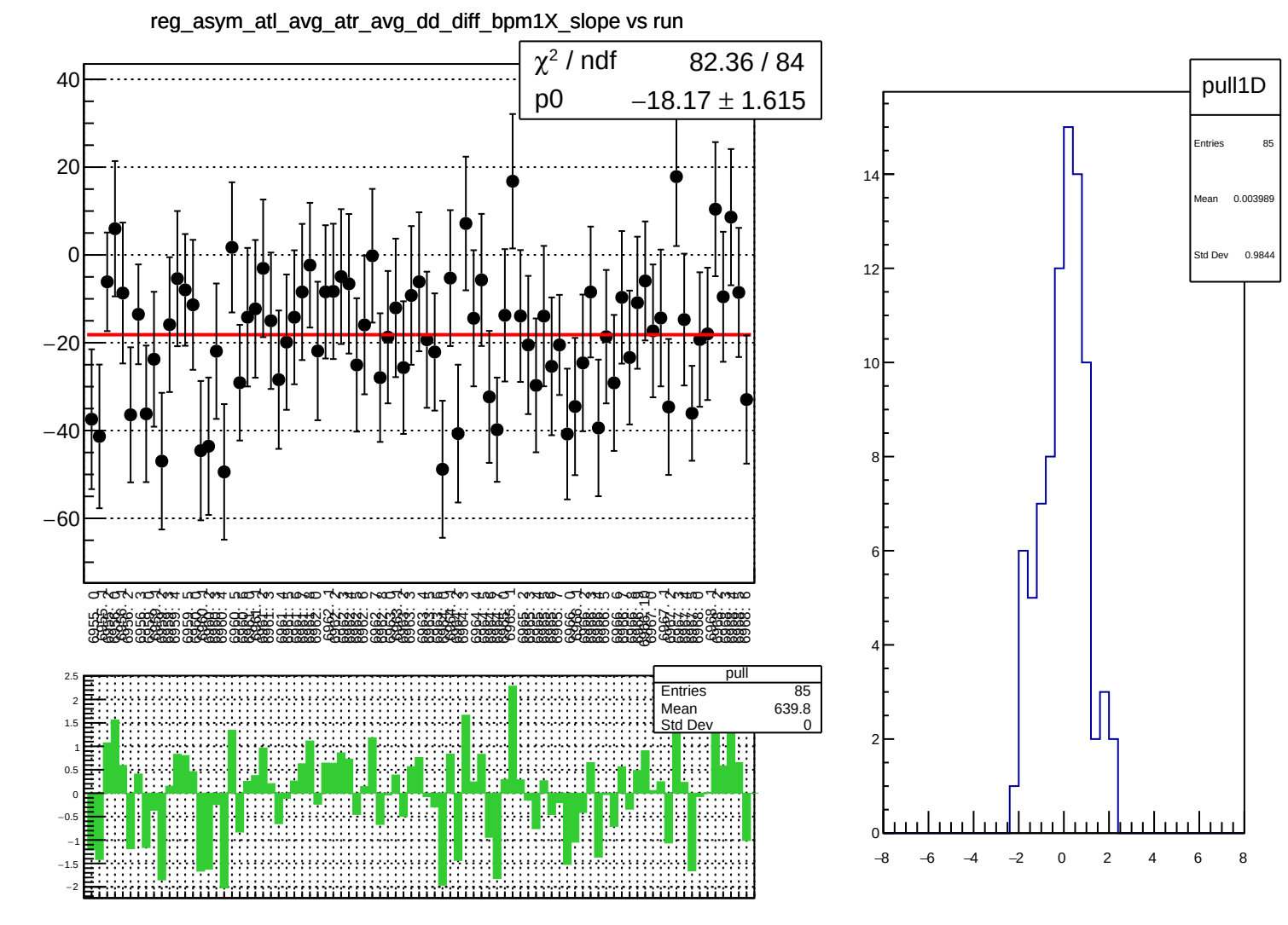

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.848 / 84
p0 8.782 ± 5.197
pull
Entries 85
Mean 93.21
Std Dev 0
pull1D
Entries 85
Mean 0.007817
Std Dev 0.2126

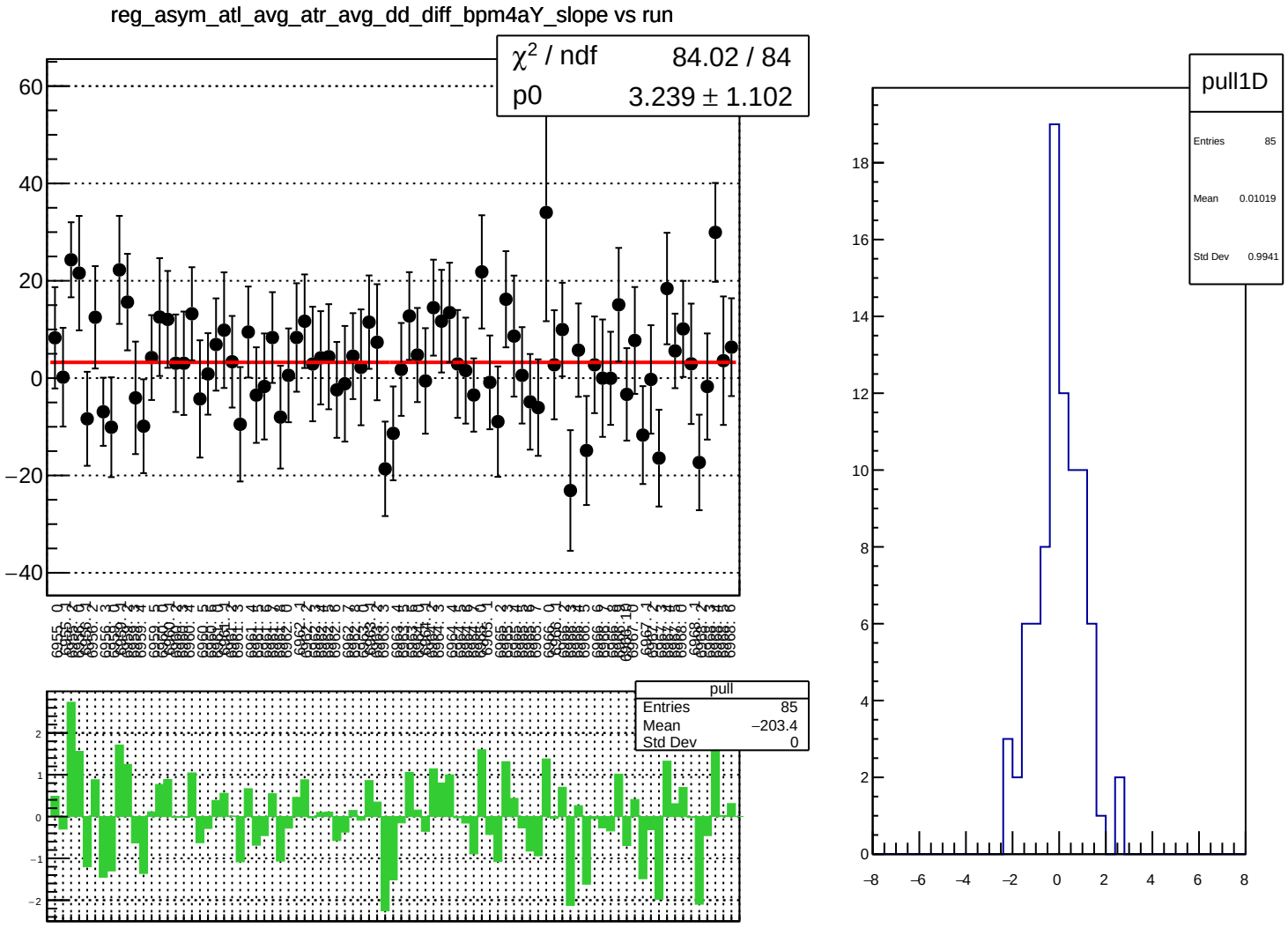

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.158 / 84
p0 275.8 ± 7.114
350
300
250
200
150
pull
Entries 85
Mean 440.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean 0.005617
Std Dev 0.2211
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

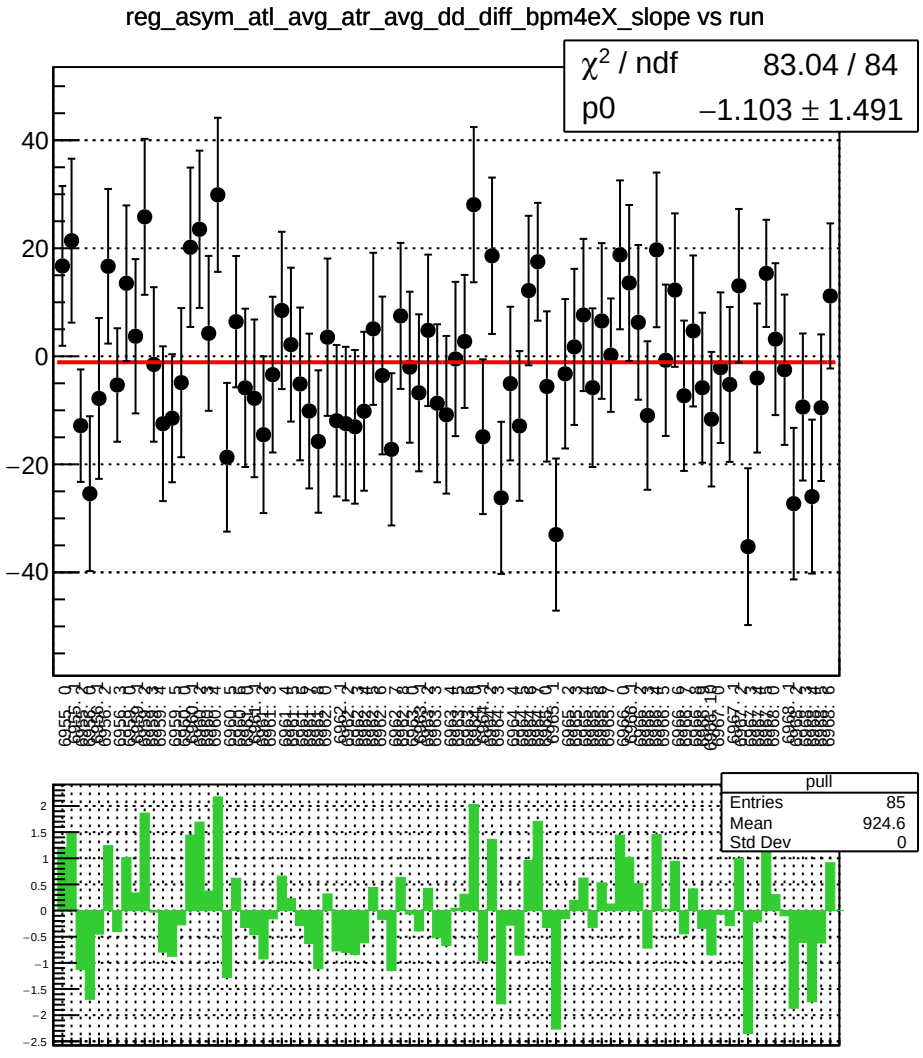

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.92 / 84
p0 57.29 ± 5.906
150
100
50
0
−50
−100
pull
Entries 85
Mean 85.33
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 85
Mean −0.00669
Std Dev 0.2147
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

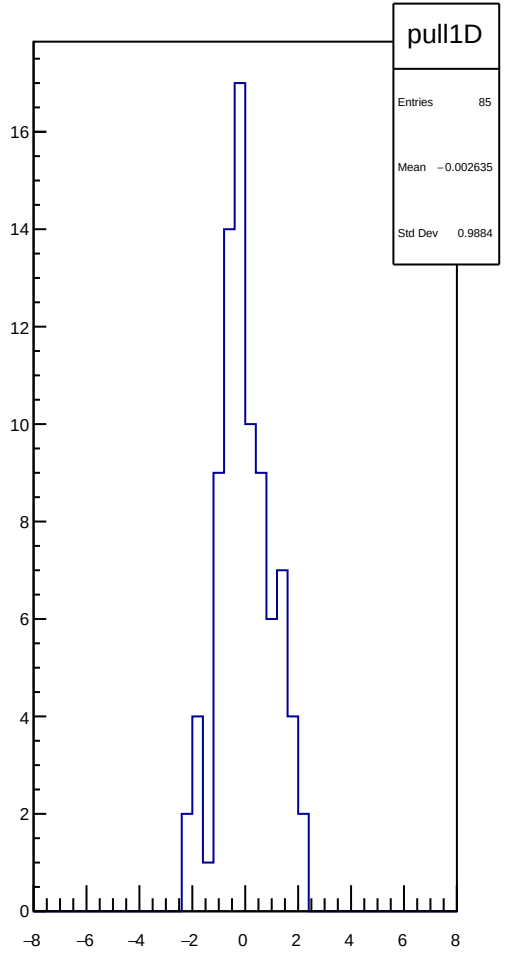

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 26.29 / 84
p0 −145.4 ± 0.227
−140
−142
−144
−146
−148
−150
−152
pull
Entries 85
Mean 208.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

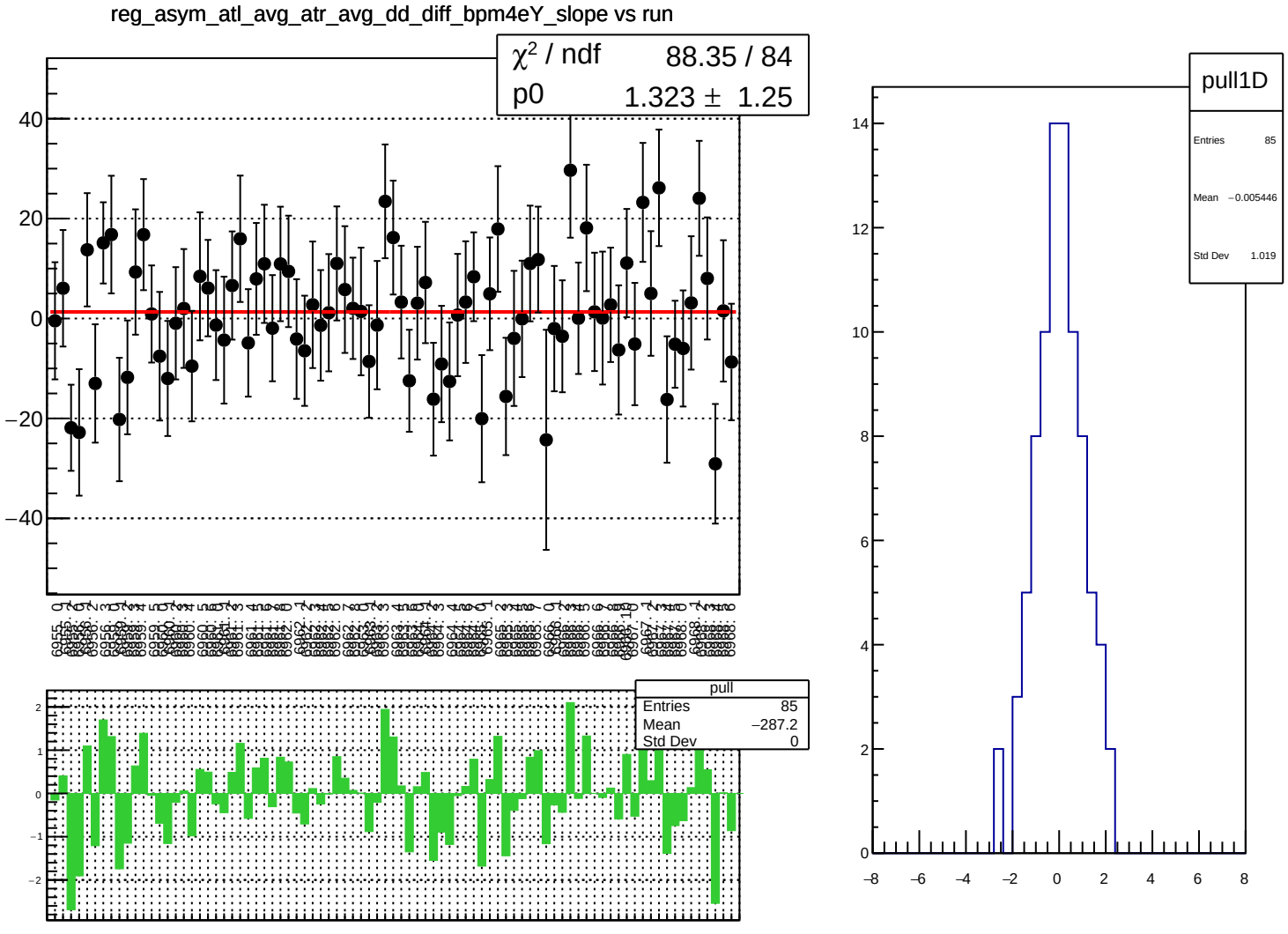

pull1D
Entries 85
Mean −0.01248
Std Dev 0.556
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

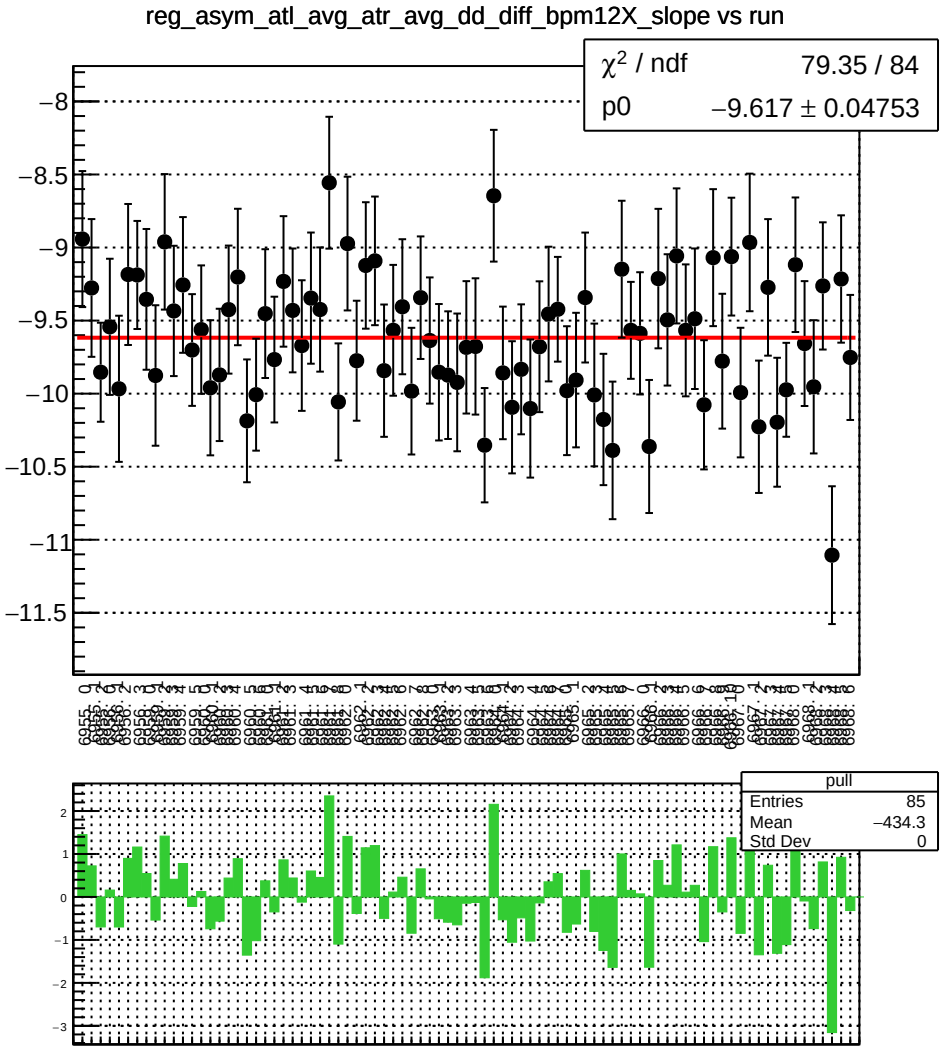

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 82.36 / 84
p0 −18.17 ± 1.615
pull
Entries 85
Mean 639.8
Std Dev 0
pull1D
Entries 85
Mean 0.003989
Std Dev 0.9844

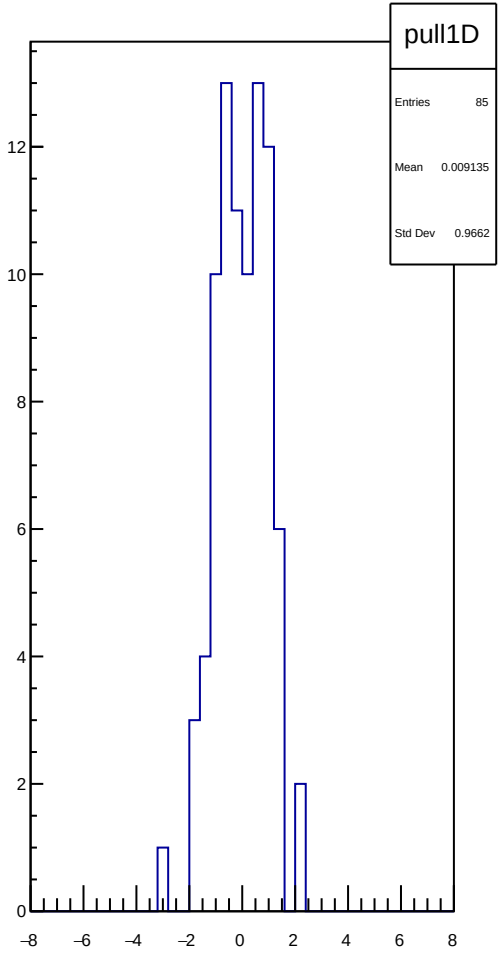

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.02 / 84
p0 3.239 ± 1.102
pull
Entries 85
Mean −203.4
Std Dev 0
pull1D
Entries 85
Mean 0.01019
Std Dev 0.9941

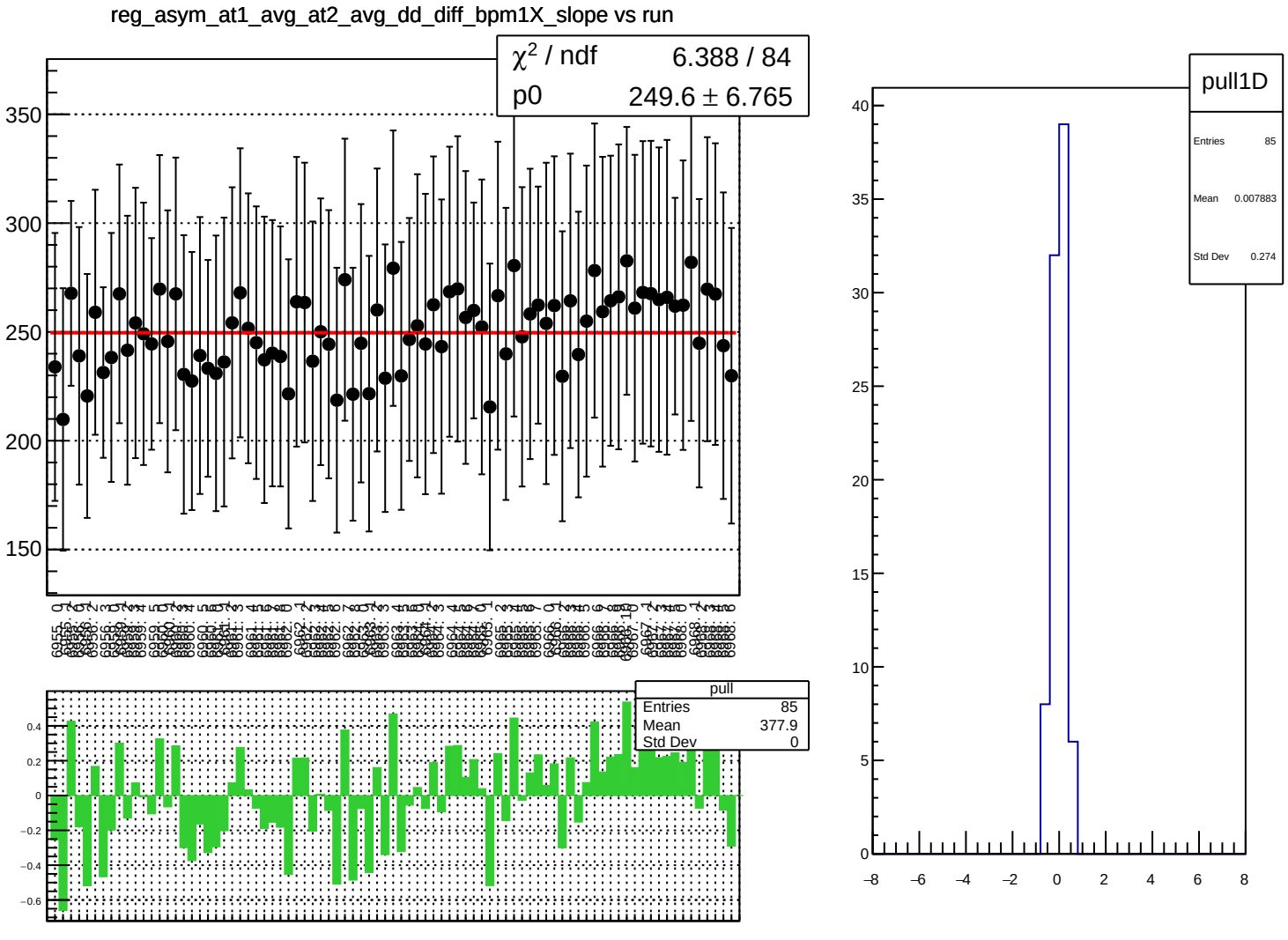

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.04 / 84
p0 −1.103 ± 1.491
pull
Entries 85
Mean 924.6
Std Dev 0

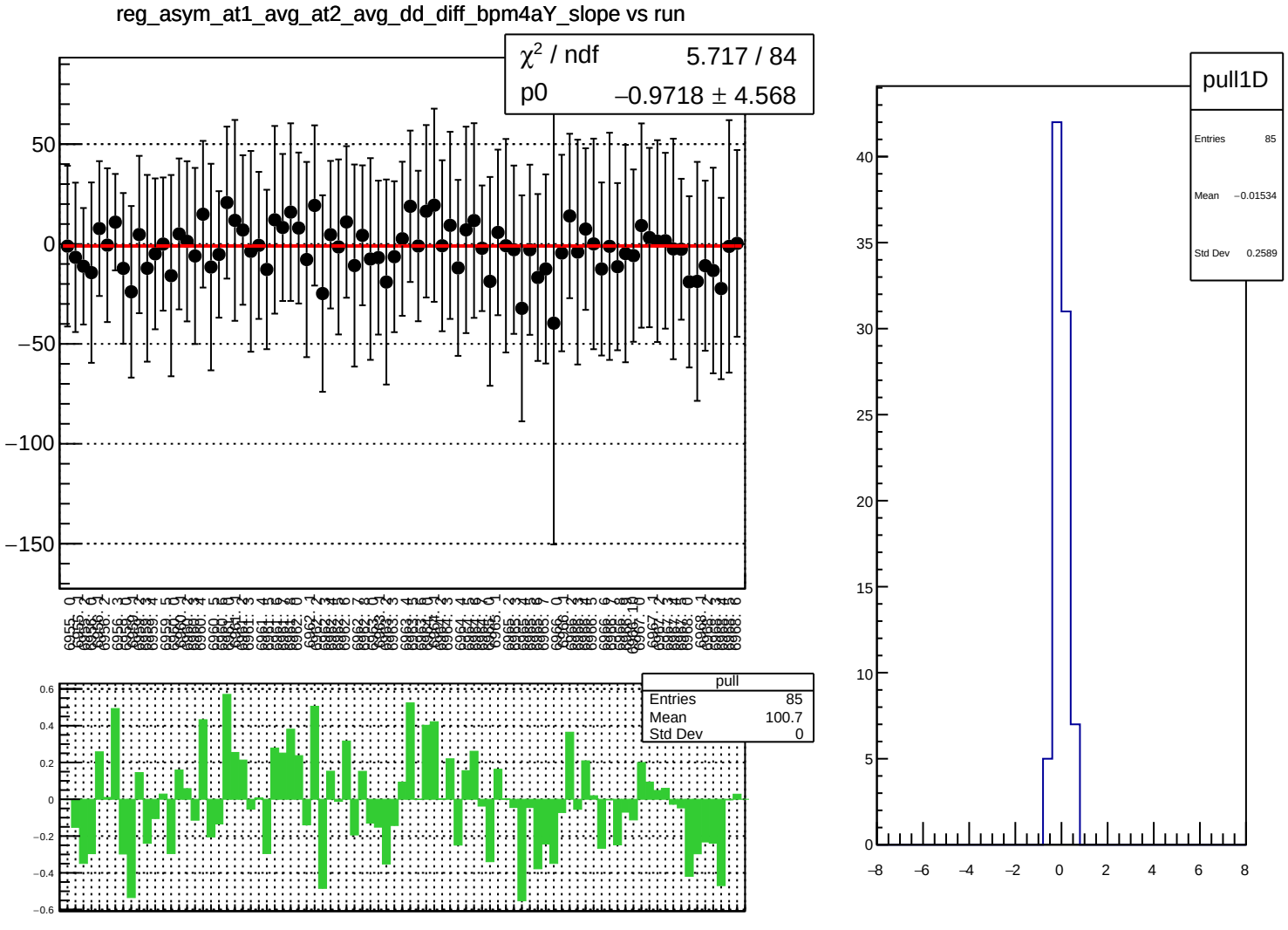

pull1D
Entries 85
Mean −0.002635
Std Dev 0.9884

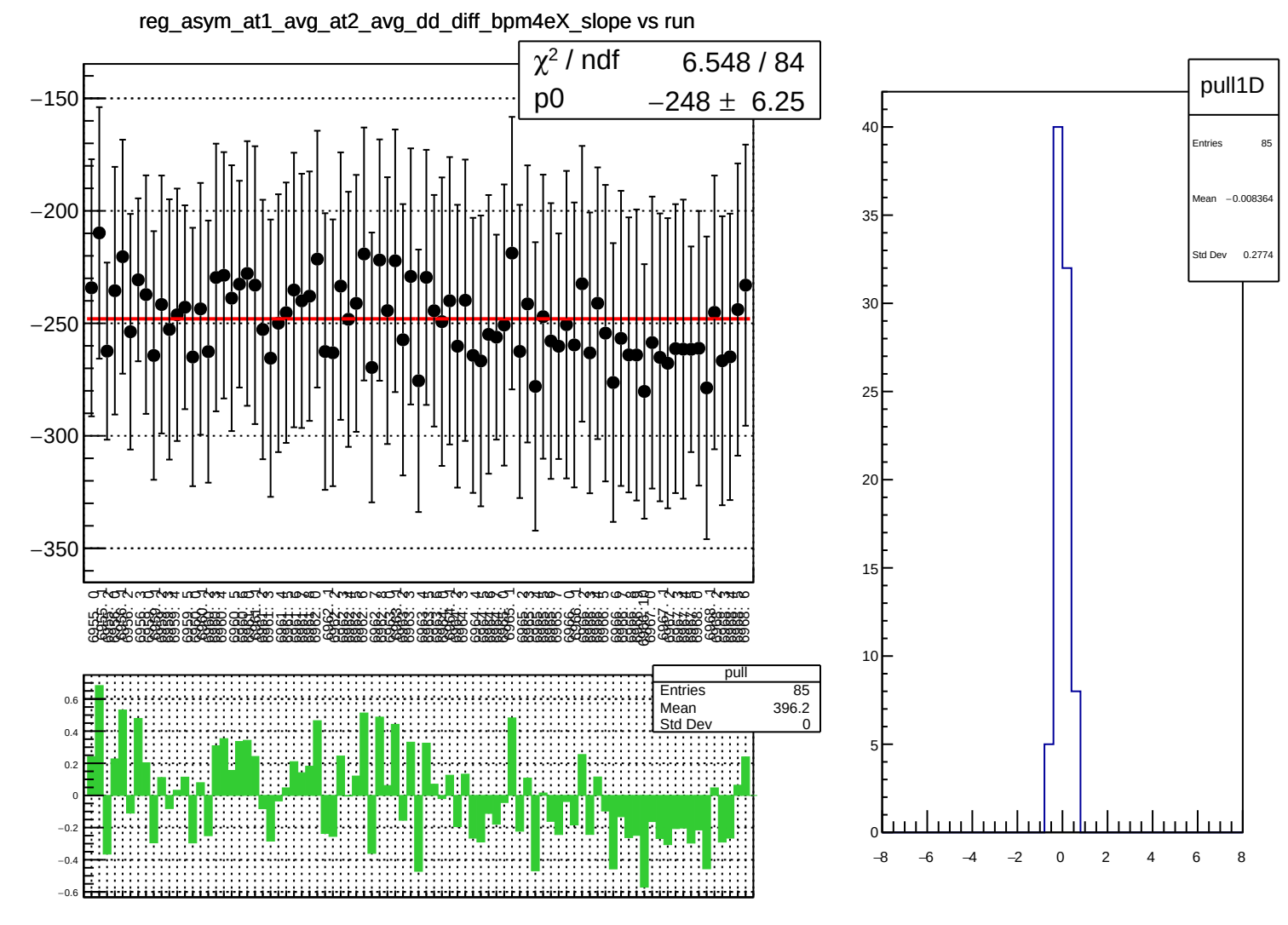

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.35 / 84
p0 1.323 ± 1.25
pull
Entries 85
Mean −287.2
Std Dev 0
pull1D
Entries 85
Mean −0.005446
Std Dev 1.019

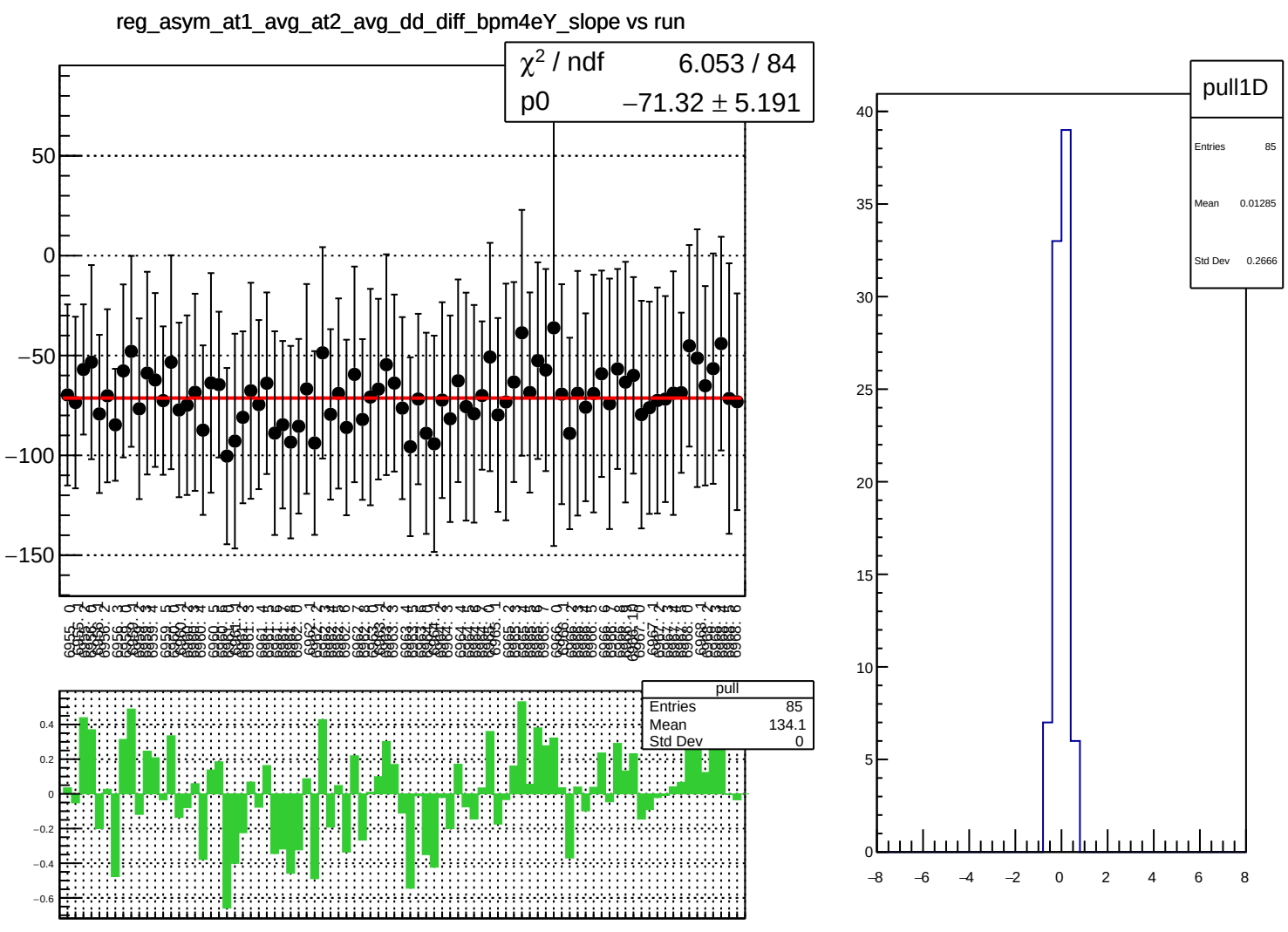

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 79.35 / 84
p0 −9.617 ± 0.04753
pull
Entries 85
Mean −434.3
Std Dev 0

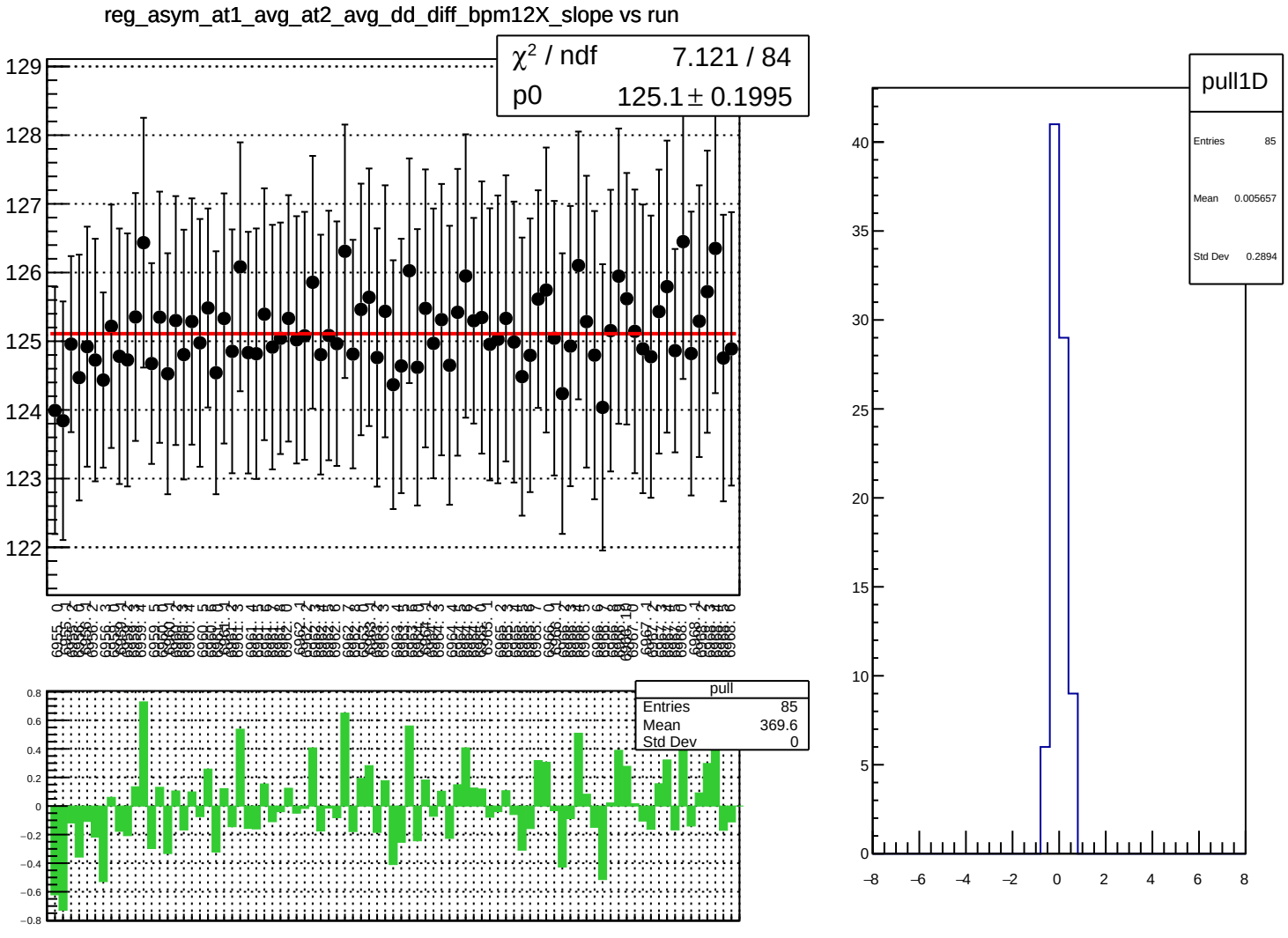

pull1D
Entries 85
Mean 0.009135
Std Dev 0.9662

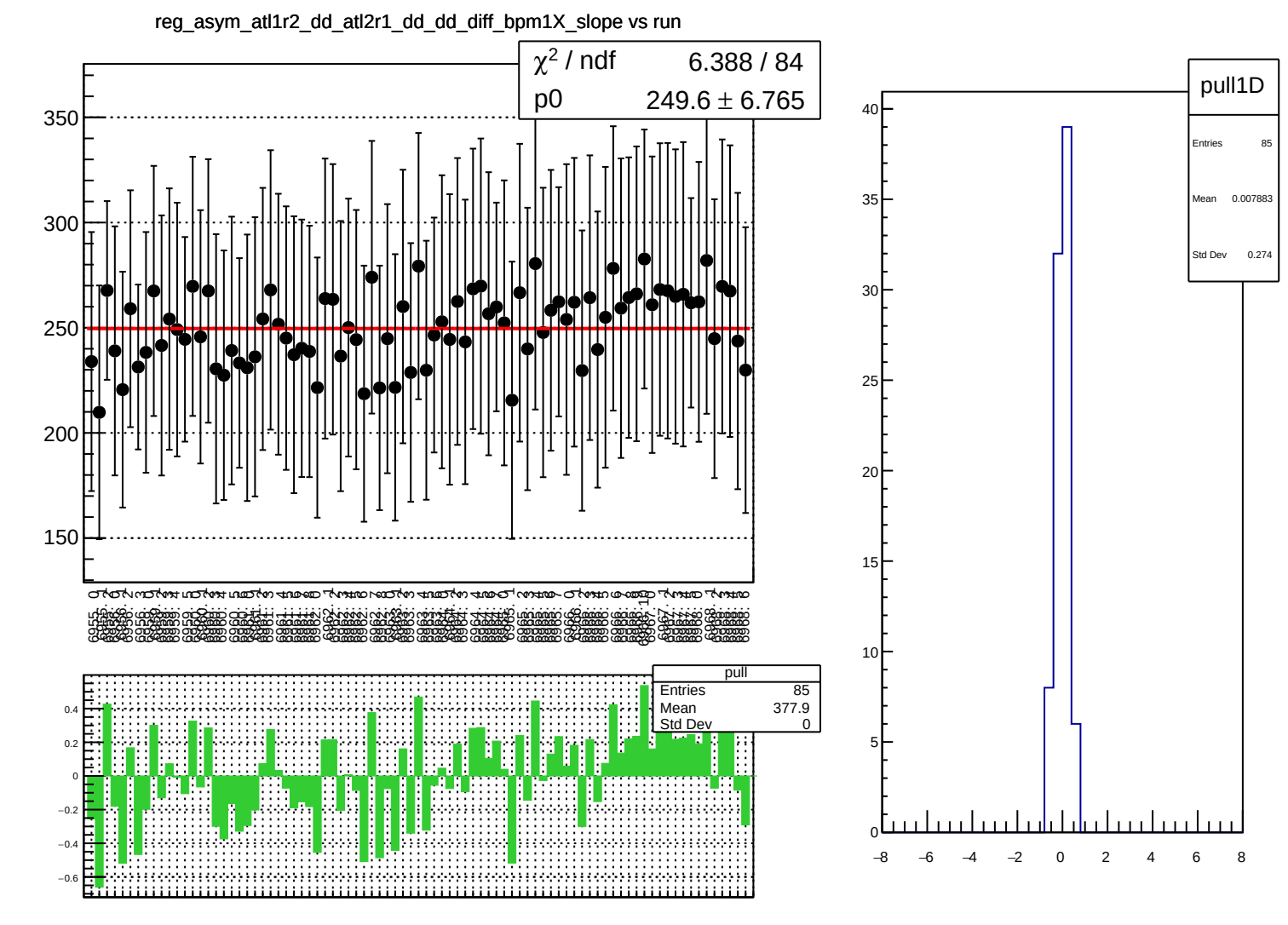

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 6.388 / 84
p0 249.6 ± 6.765
350
300
250
200
150
pull
Entries 85
Mean 377.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean 0.007883
Std Dev 0.274
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

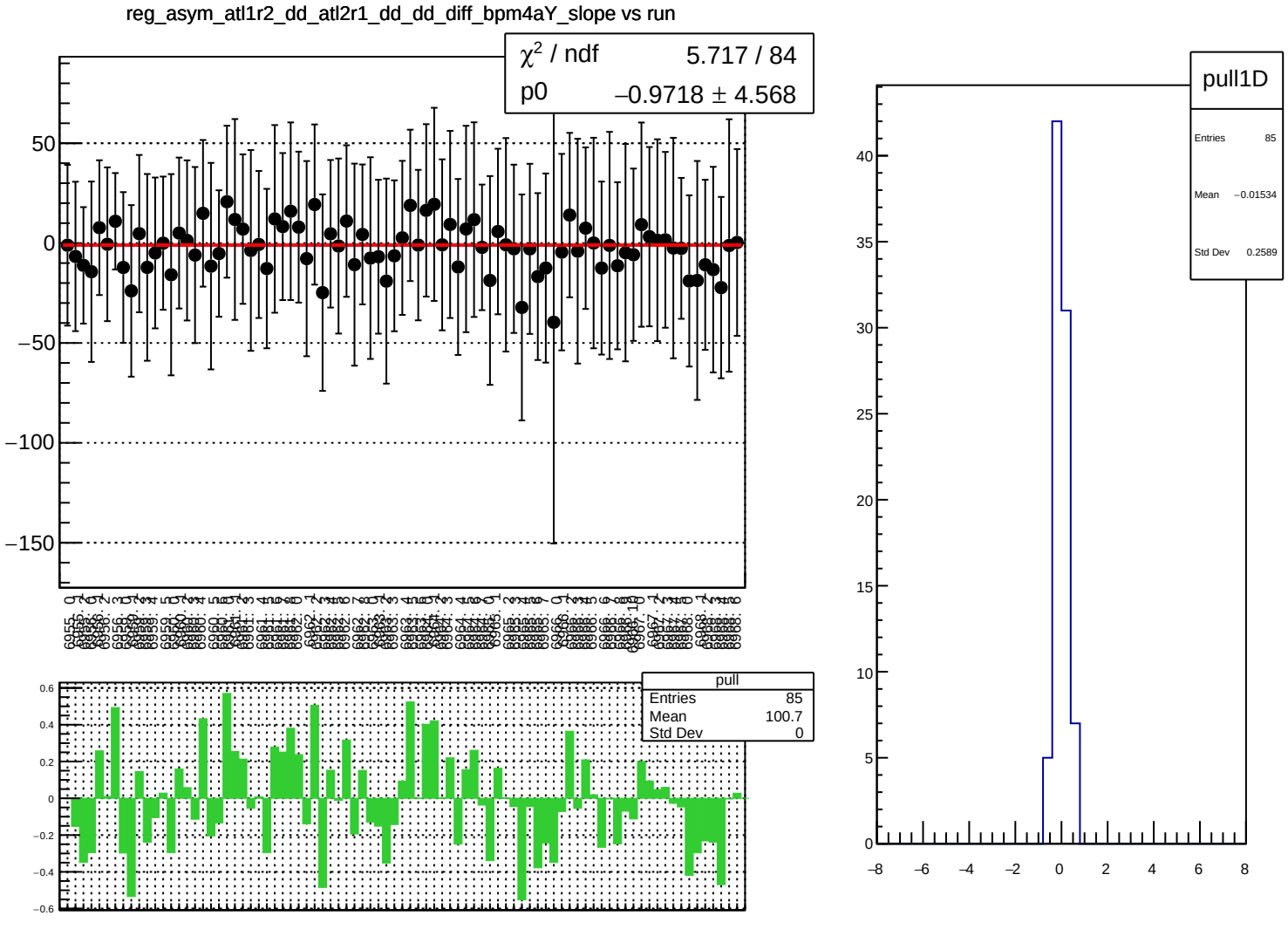

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.717 / 84
p0 −0.9718 ± 4.568
pull
Entries 85
Mean 100.7
Std Dev 0
pull1D
Entries 85
Mean −0.01534
Std Dev 0.2589

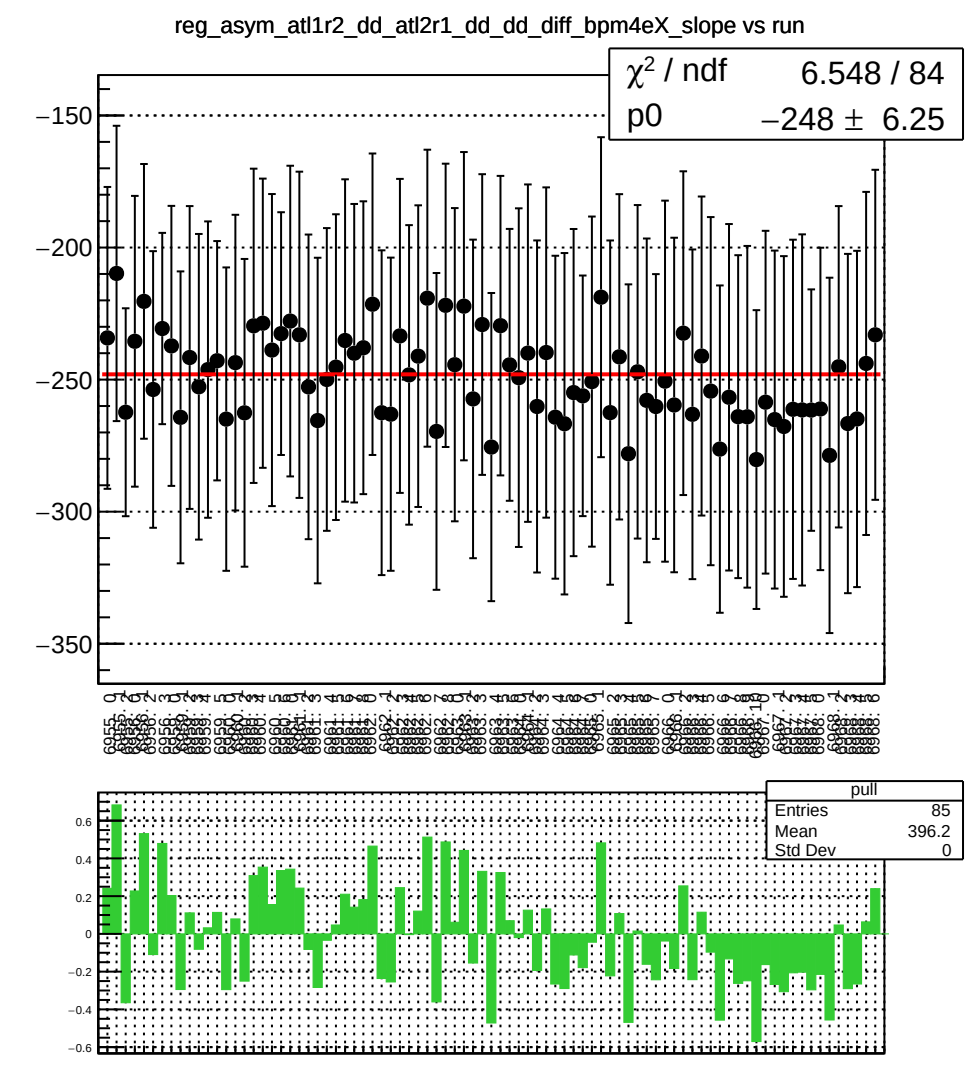

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.548 / 84
p0 −248 ± 6.25
−150
−200
−250
−300
−350
pull
Entries 85
Mean 396.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.008364
Std Dev 0.2774
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

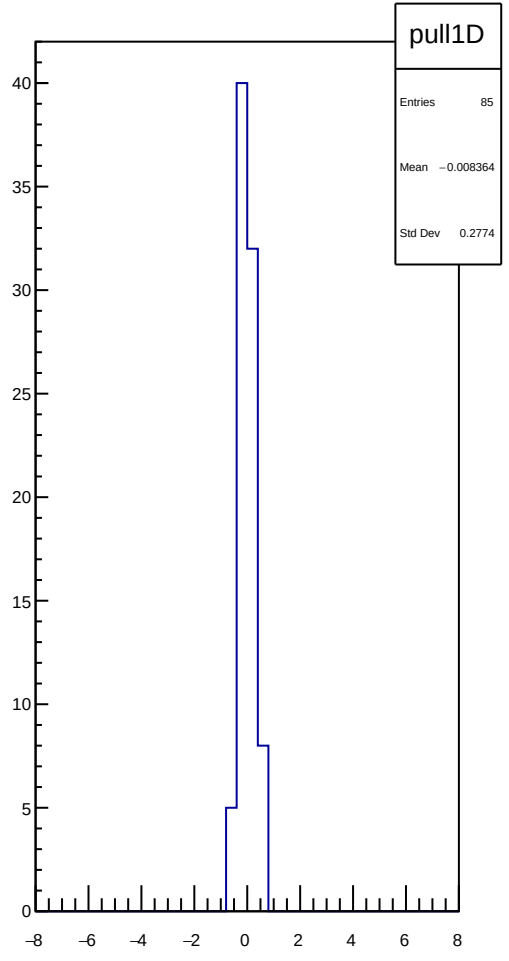

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.053 / 84
p0 −71.32 ± 5.191
50
0
−50
−100
−150
pull
Entries 85
Mean 134.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean 0.01285
Std Dev 0.2666
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

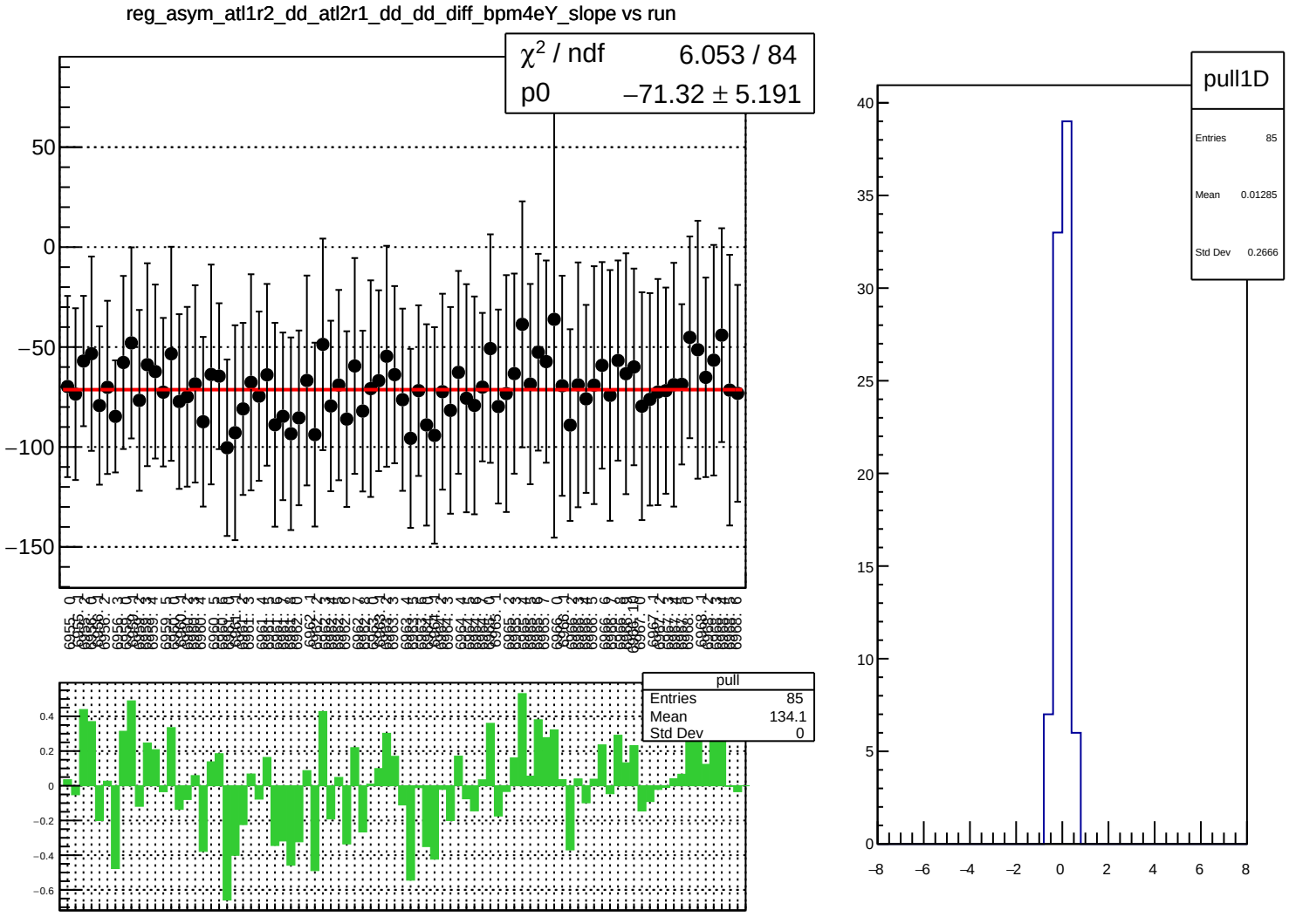

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 7.121 / 84
p0 125.1 ± 0.1995
pull
Entries 85
Mean 369.6
Std Dev 0
pull1D
Entries 85
Mean 0.005657
Std Dev 0.2894

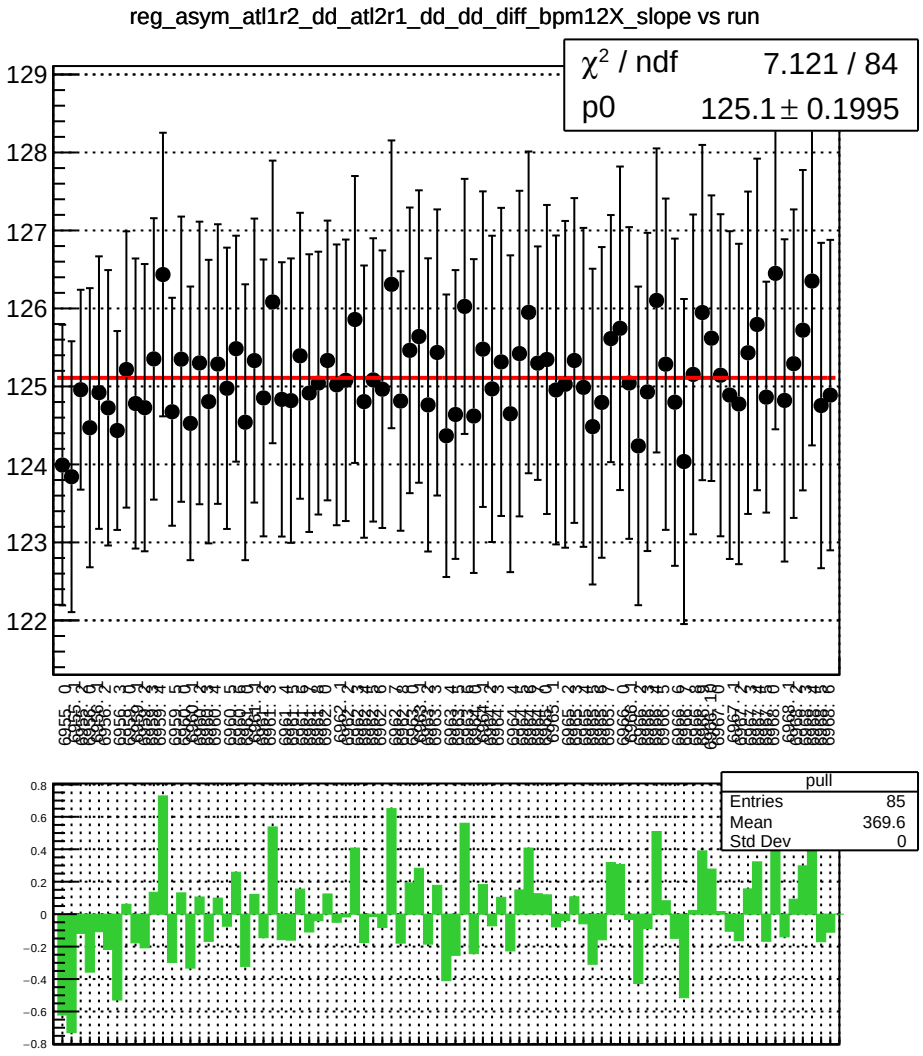

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 6.388 / 84
p0 249.6 ± 6.765
pull
Entries 85
Mean 377.9
Std Dev 0
pull1D
Entries 85
Mean 0.007883
Std Dev 0.274

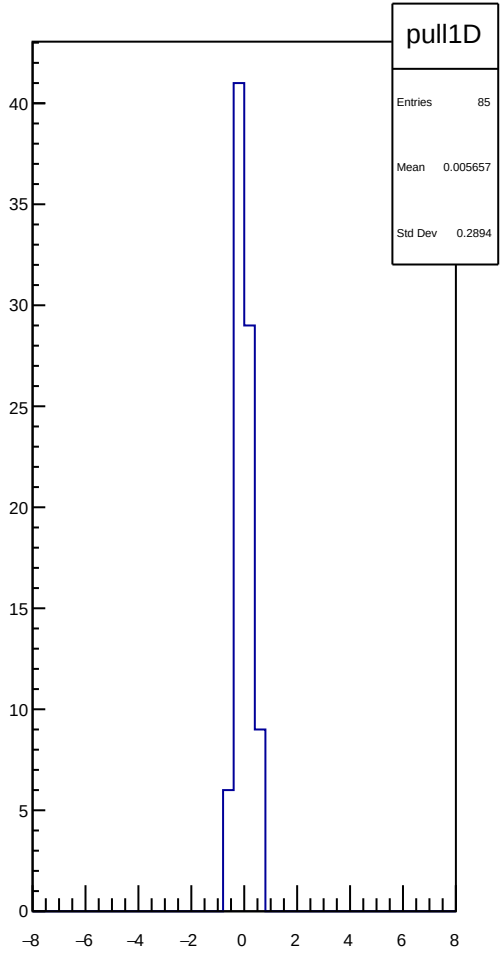

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.717 / 84
p0 −0.9718 ± 4.568
50
0
−50
−100
−150
pull
Entries 85
Mean 100.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.01534
Std Dev 0.2589
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

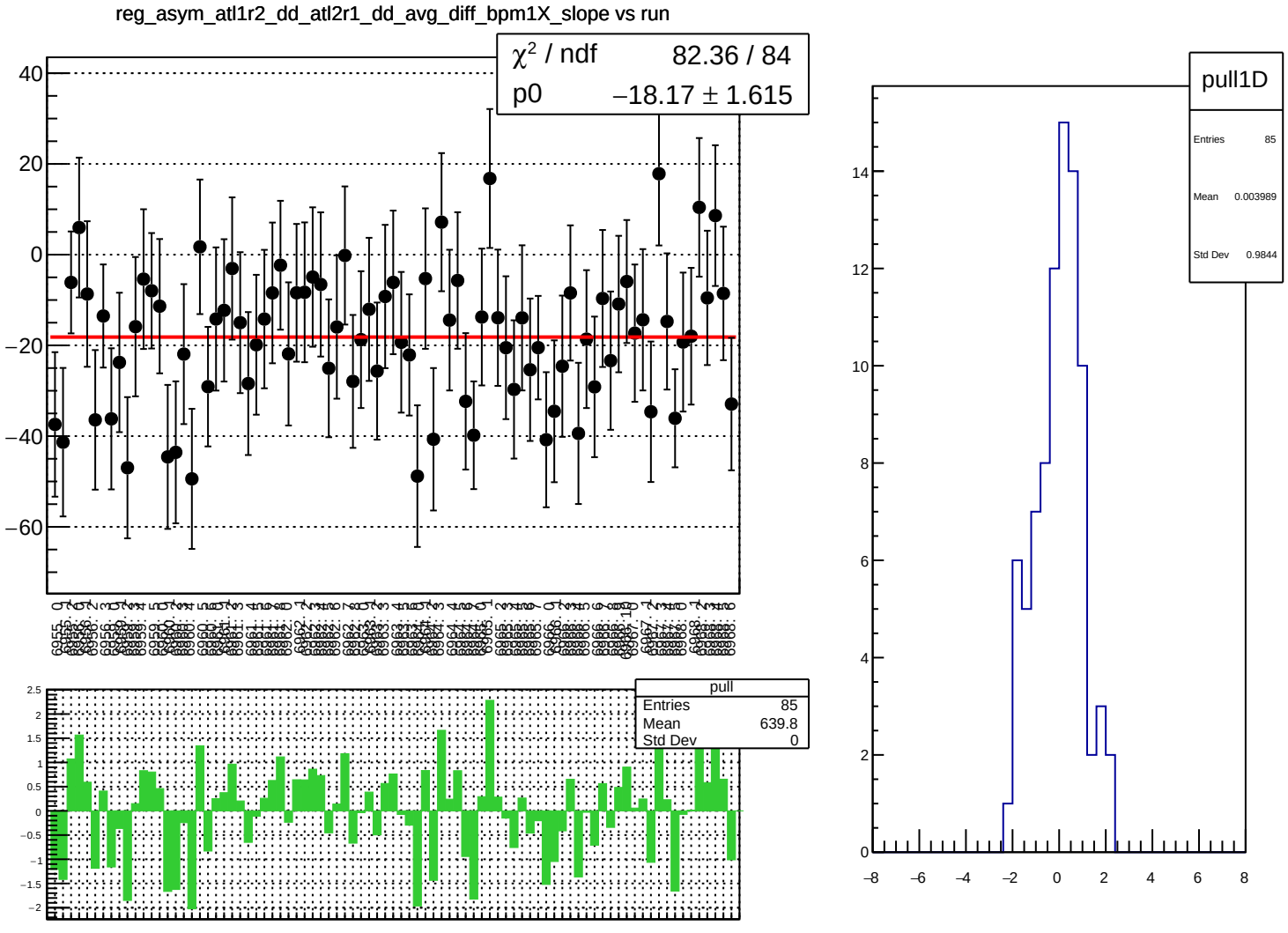

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.548 / 84
p0 −248 ± 6.25
−150
−200
−250
−300
−350
pull
Entries 85
Mean 396.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

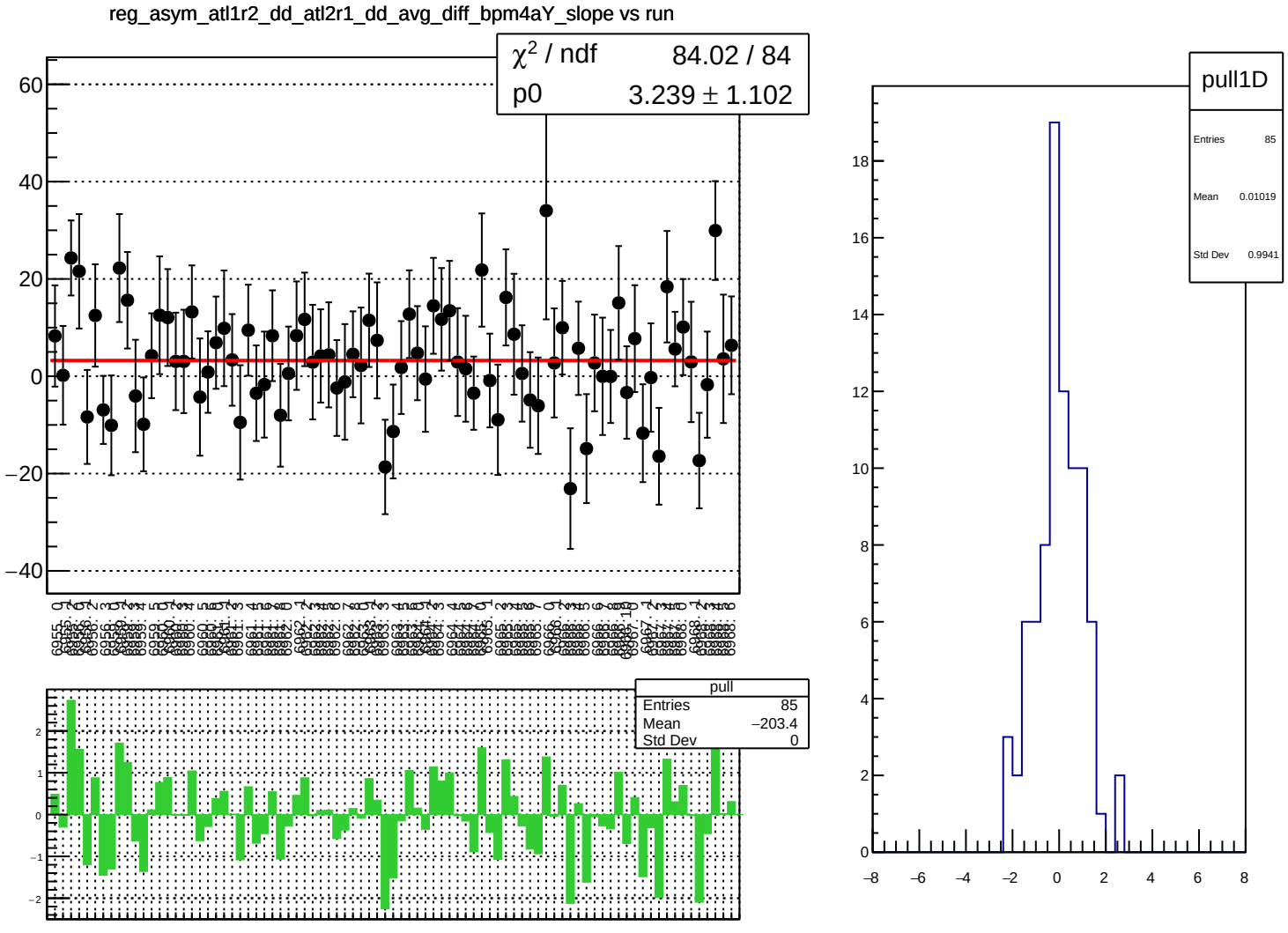

pull1D
Entries 85
Mean −0.008364
Std Dev 0.2774
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

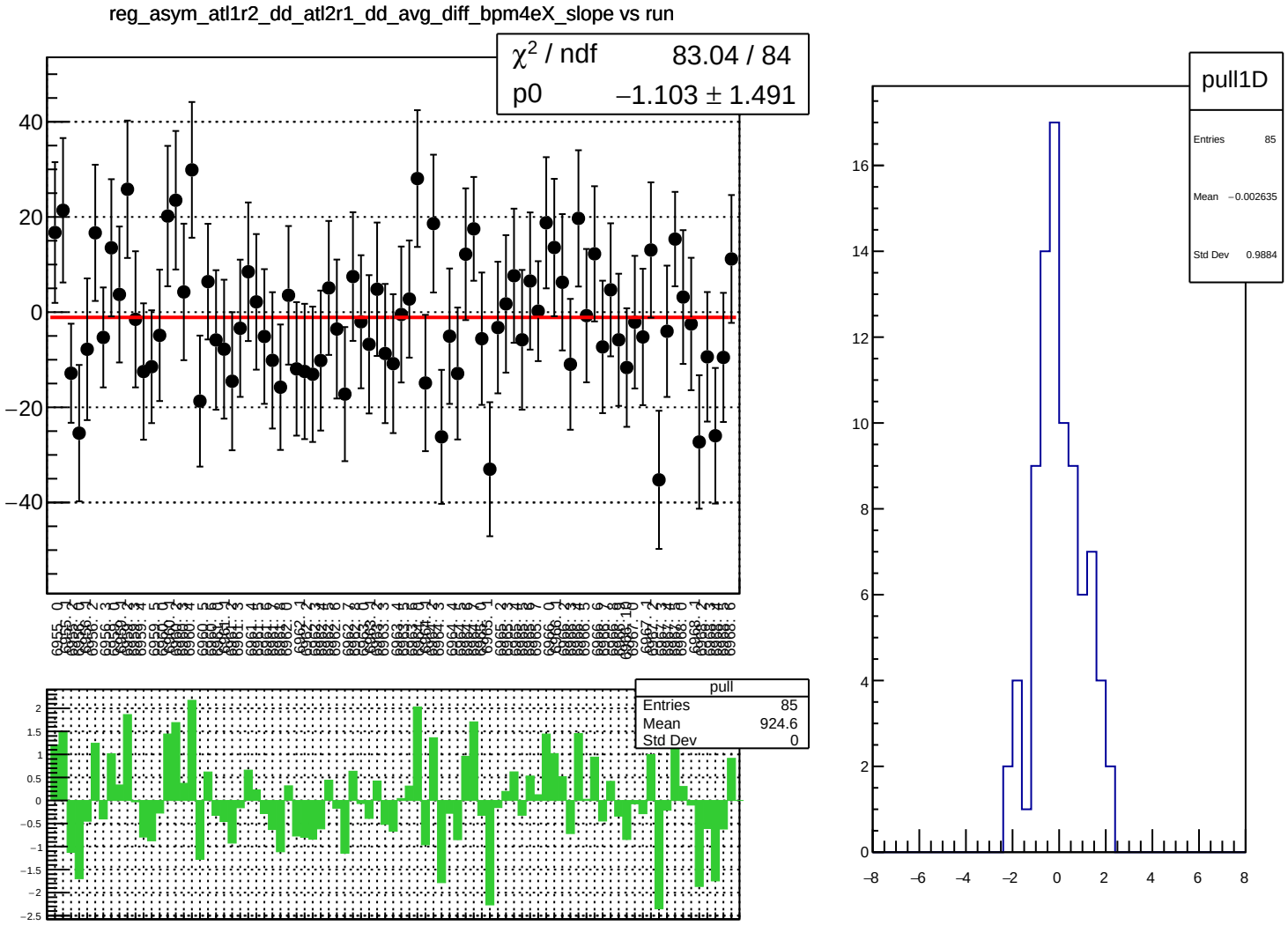

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.053 / 84
p0 −71.32 ± 5.191
pull
Entries 85
Mean 134.1
Std Dev 0
pull1D
Entries 85
Mean 0.01285
Std Dev 0.2666

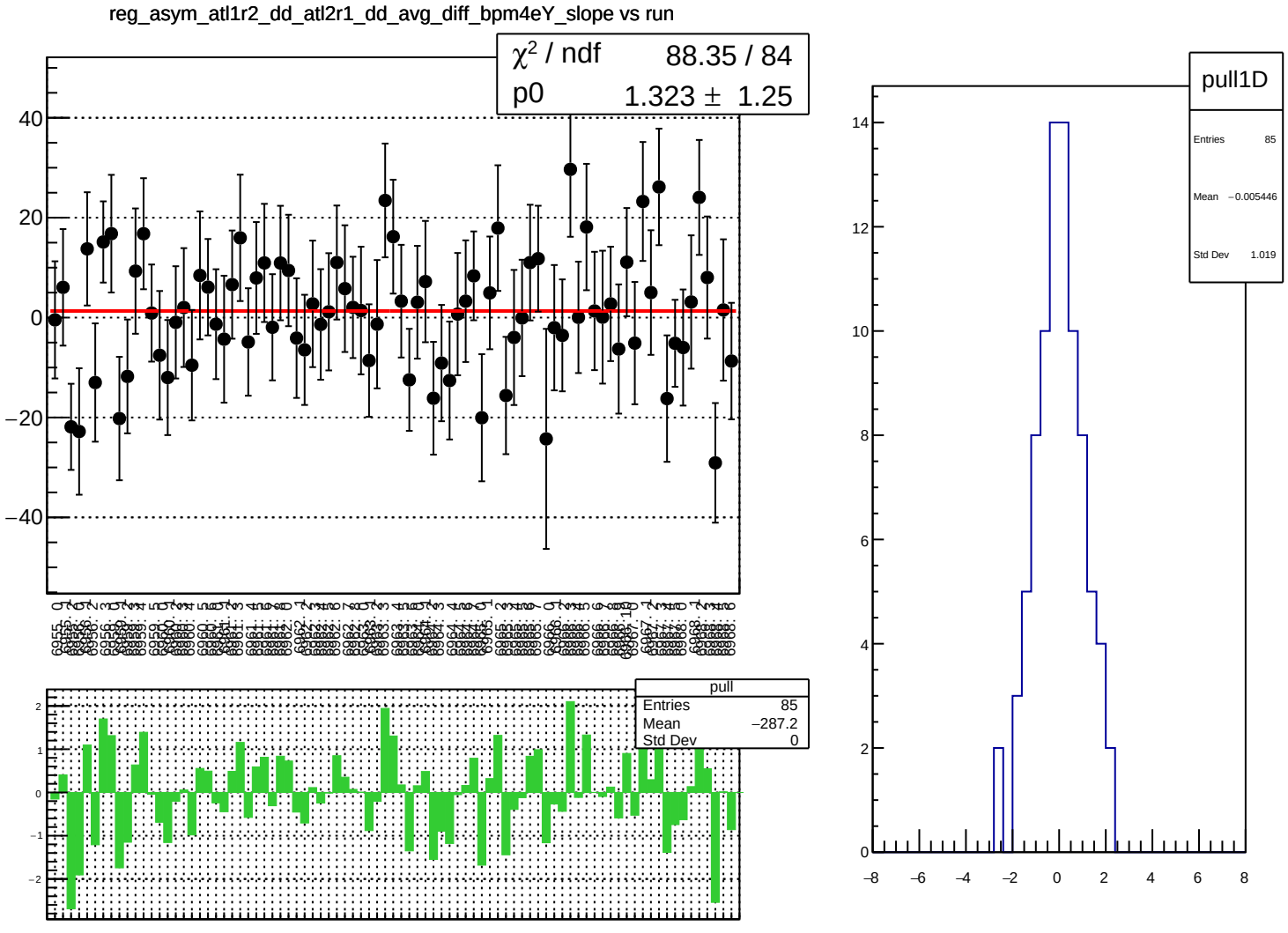

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 7.121 / 84
p0 125.1 ± 0.1995
pull
Entries 85
Mean 369.6
Std Dev 0

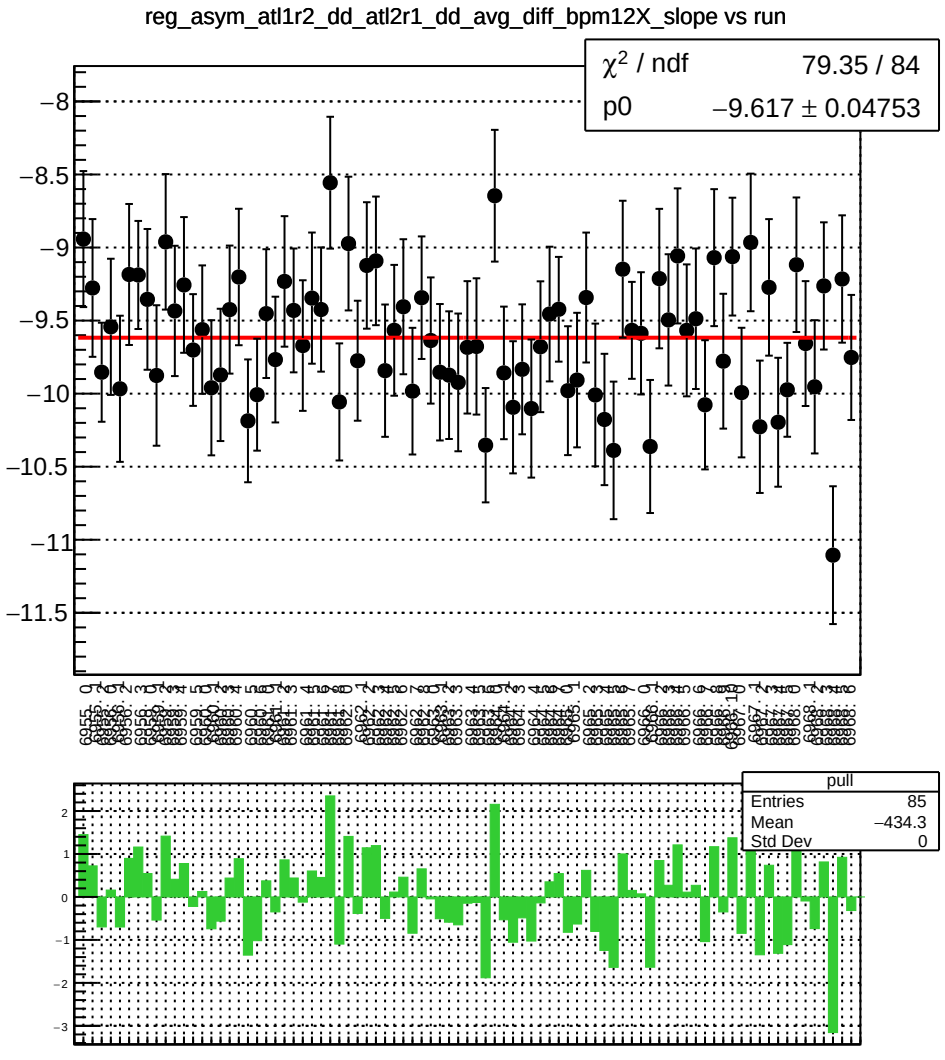

pull1D
Entries 85
Mean 0.005657
Std Dev 0.2894

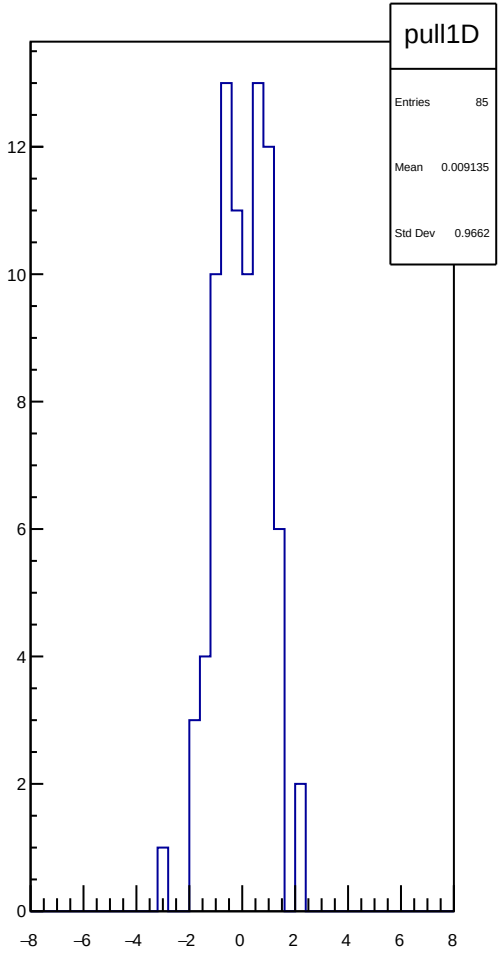

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 82.36 / 84
p0 −18.17 ± 1.615
pull
Entries 85
Mean 639.8
Std Dev 0
pull1D
Entries 85
Mean 0.003989
Std Dev 0.9844

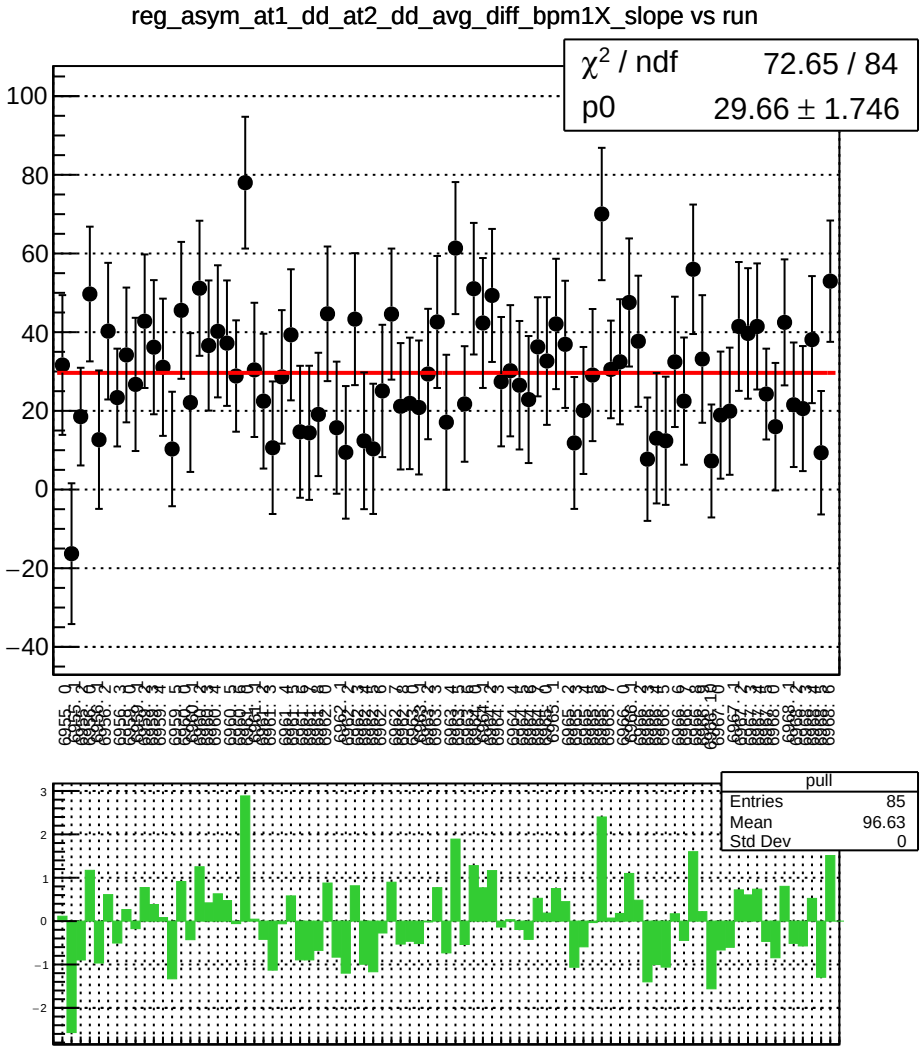

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.02 / 84
p0 3.239 ± 1.102
pull
Entries 85
Mean −203.4
Std Dev 0
pull1D
Entries 85
Mean 0.01019
Std Dev 0.9941

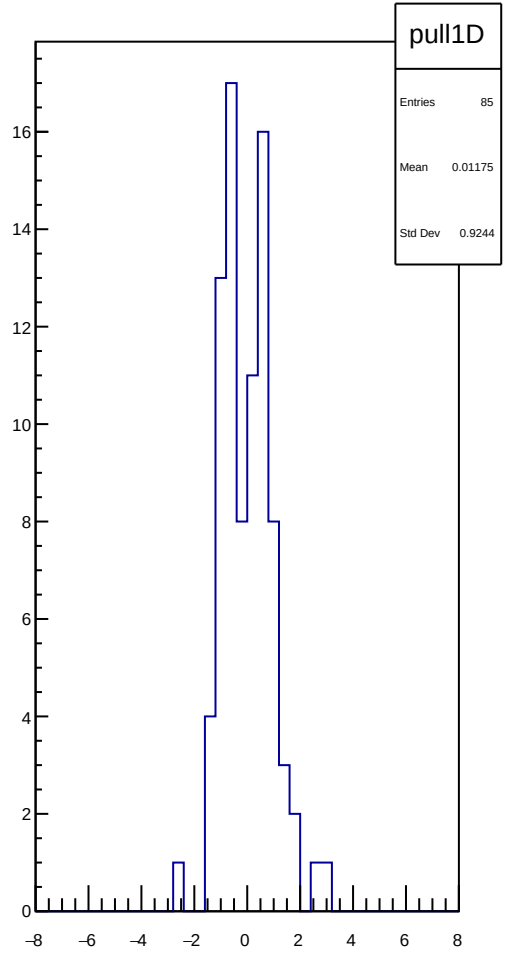

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 83.04 / 84
p0 −1.103 ± 1.491
pull
Entries 85
Mean 924.6
Std Dev 0
pull1D
Entries 85
Mean −0.002635
Std Dev 0.9884

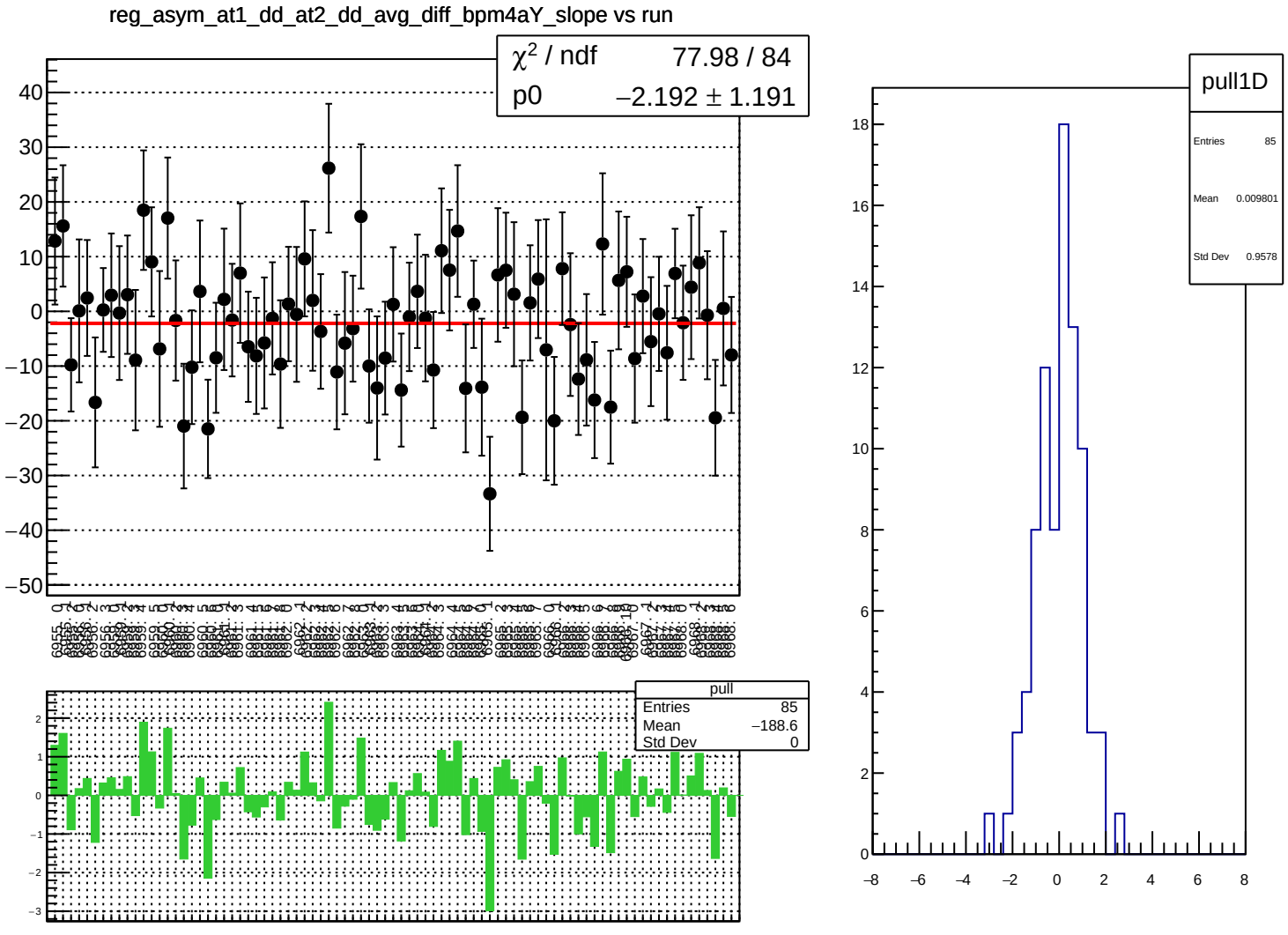

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.35 / 84
p0 1.323 ± 1.25
40
20
0
−20
−40
pull
Entries 85
Mean −287.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.005446
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

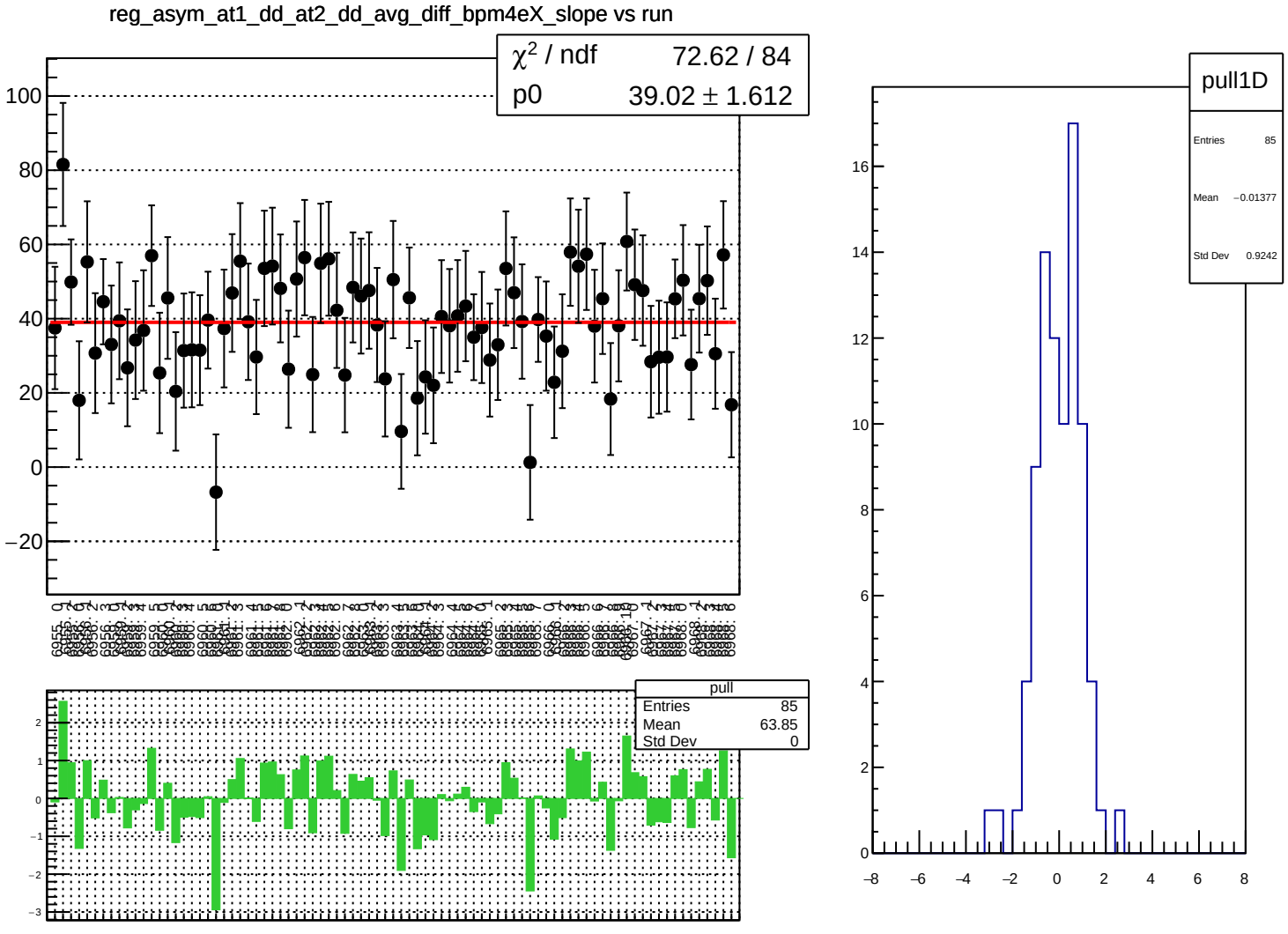

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 79.35 / 84
p0 −9.617 ± 0.04753
pull
Entries 85
Mean −434.3
Std Dev 0

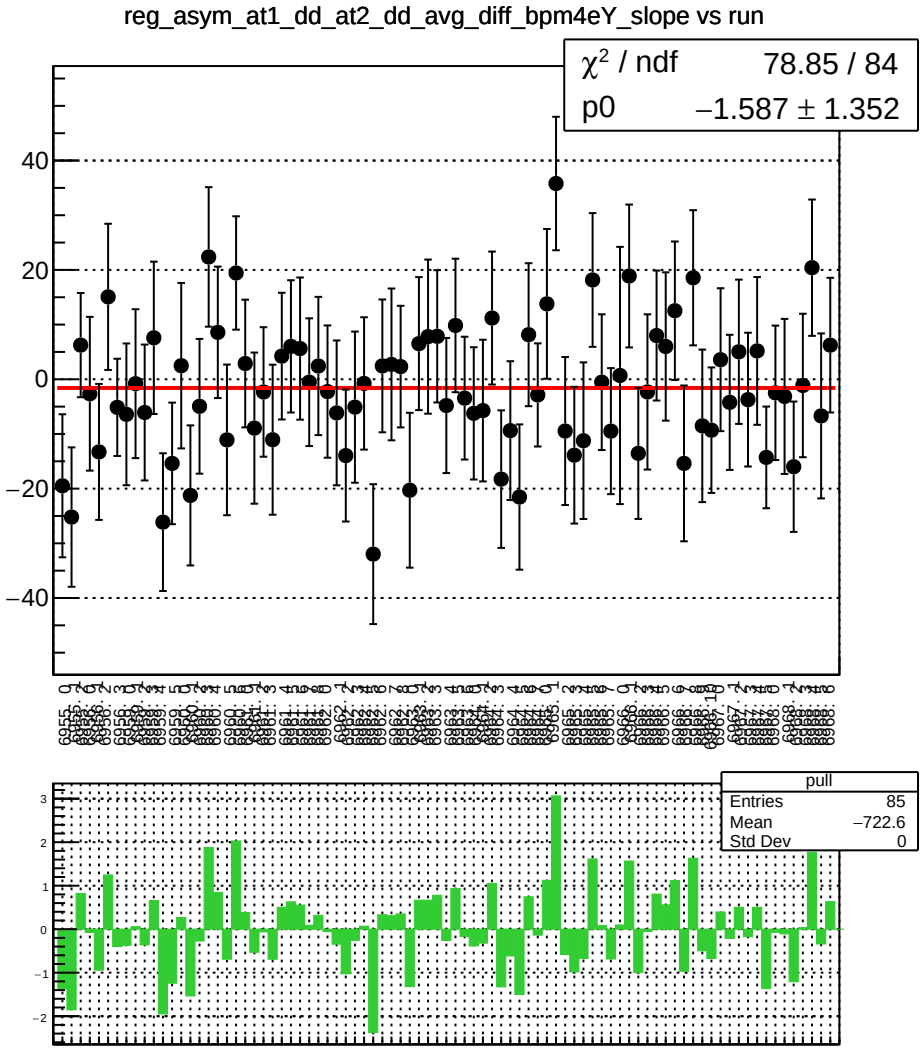

pull1D
Entries 85
Mean 0.009135
Std Dev 0.9662

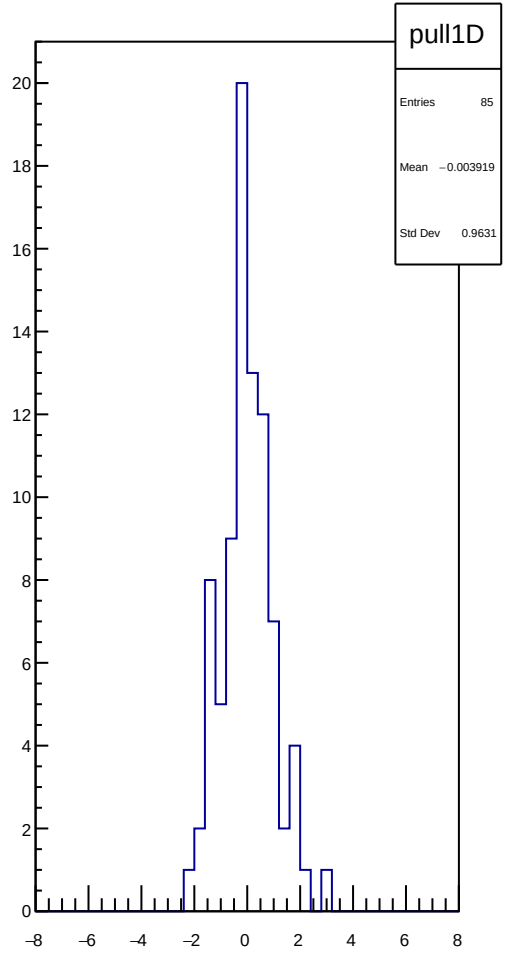

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 72.65 / 84
p0 29.66 ± 1.746
pull
Entries 85
Mean 96.63
Std Dev 0

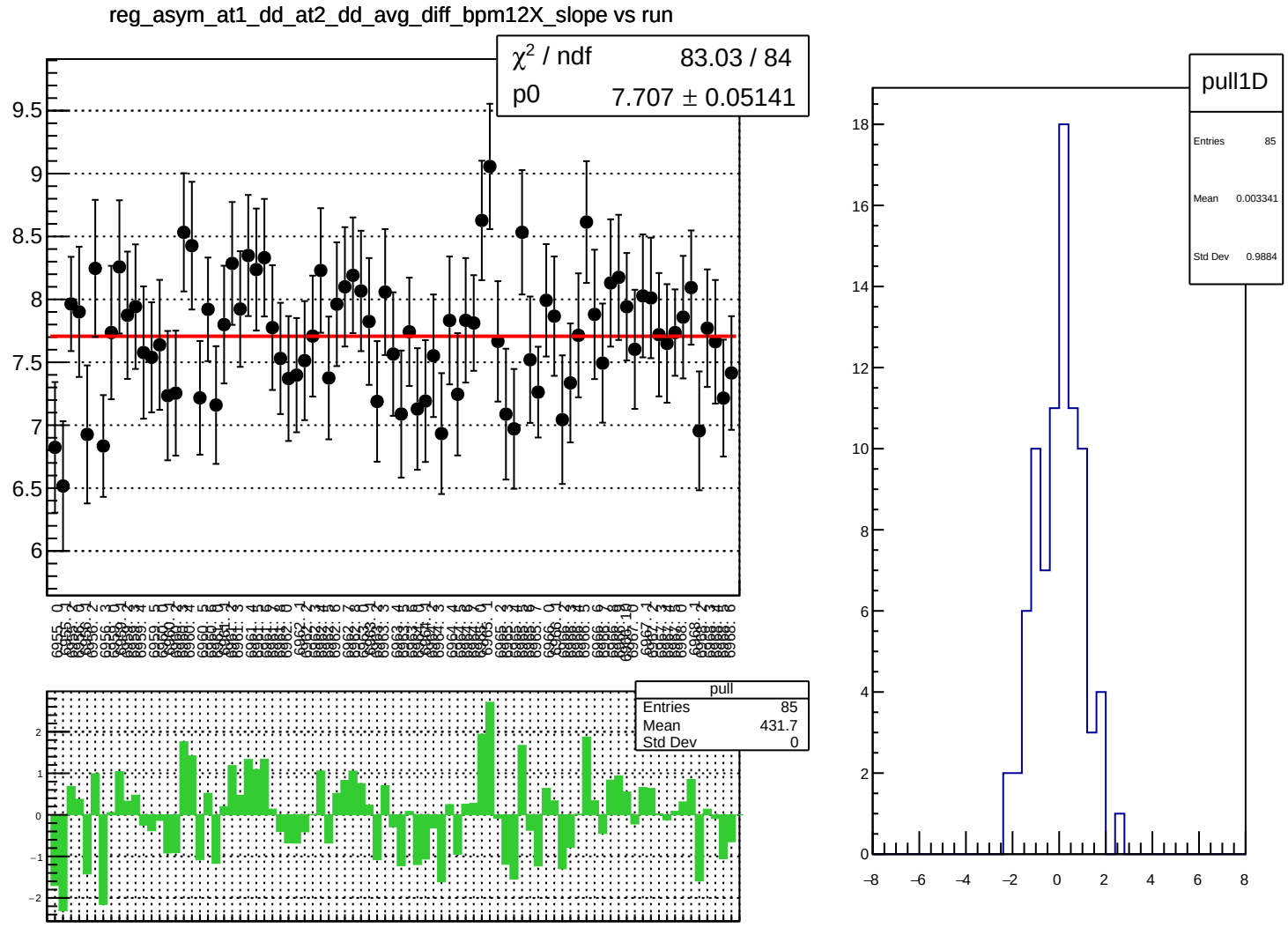

pull1D
Entries 85
Mean 0.01175
Std Dev 0.9244

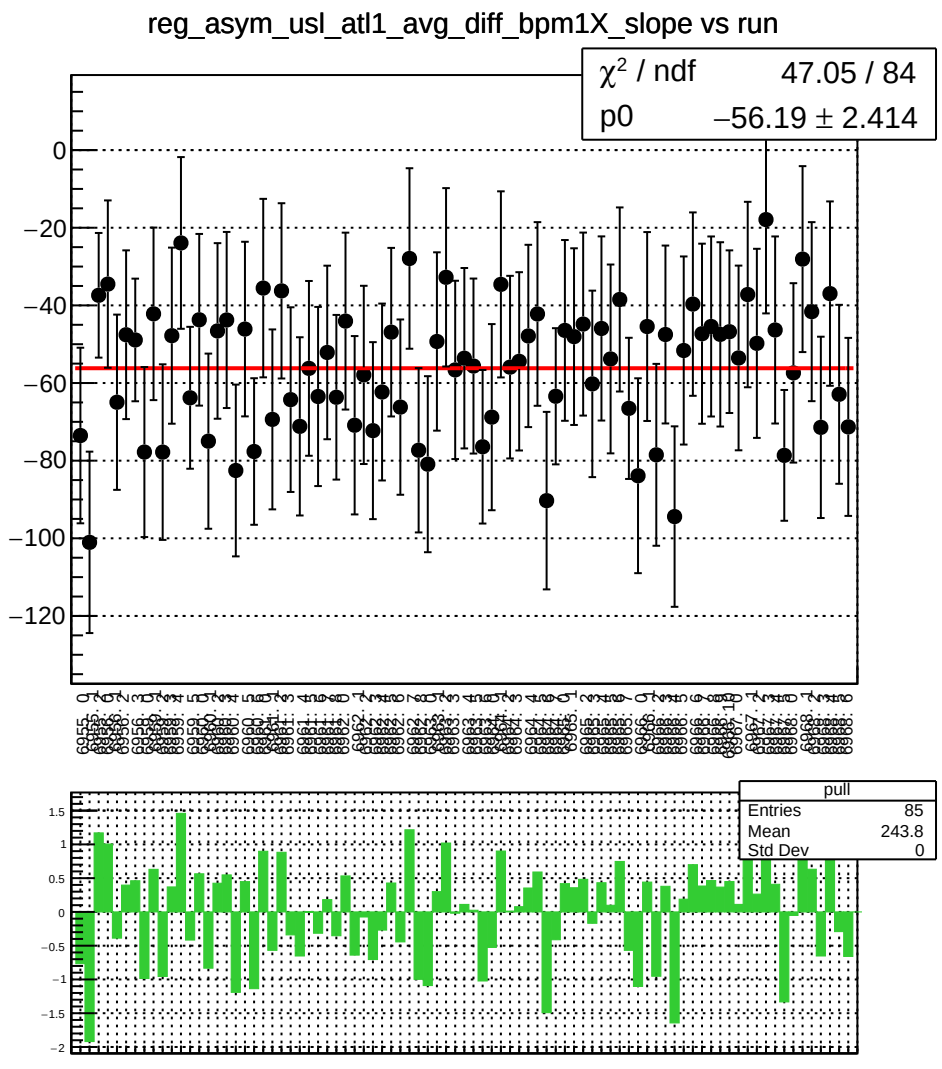

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.98 / 84
p0 −2.192 ± 1.191
pull
Entries 85
Mean −188.6
Std Dev 0
pull1D
Entries 85
Mean 0.009801
Std Dev 0.9578

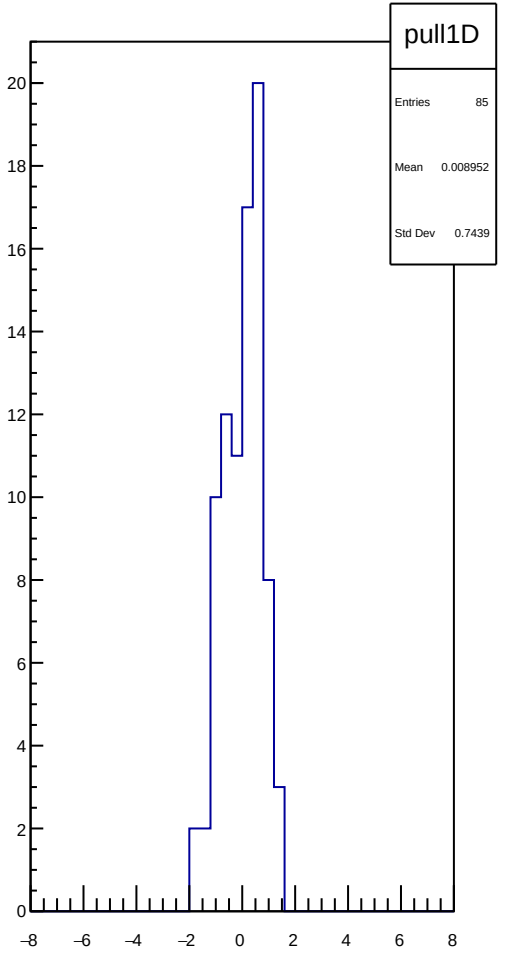

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.62 / 84
p0 39.02 ± 1.612
pull
Entries 85
Mean 63.85
Std Dev 0
pull1D
Entries 85
Mean −0.01377
Std Dev 0.9242

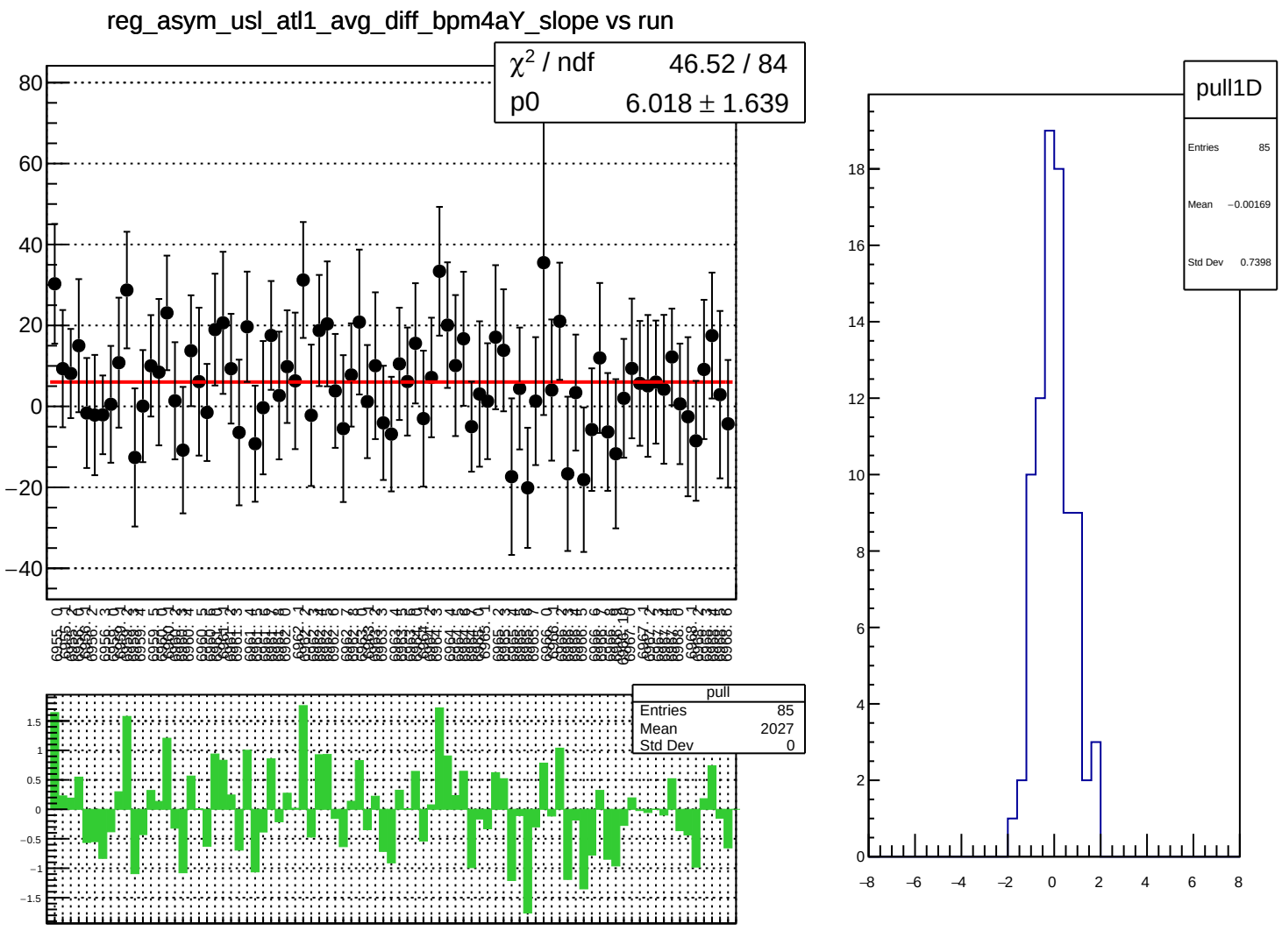

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 78.85 / 84
p0 −1.587 ± 1.352
pull
Entries 85
Mean −722.6
Std Dev 0

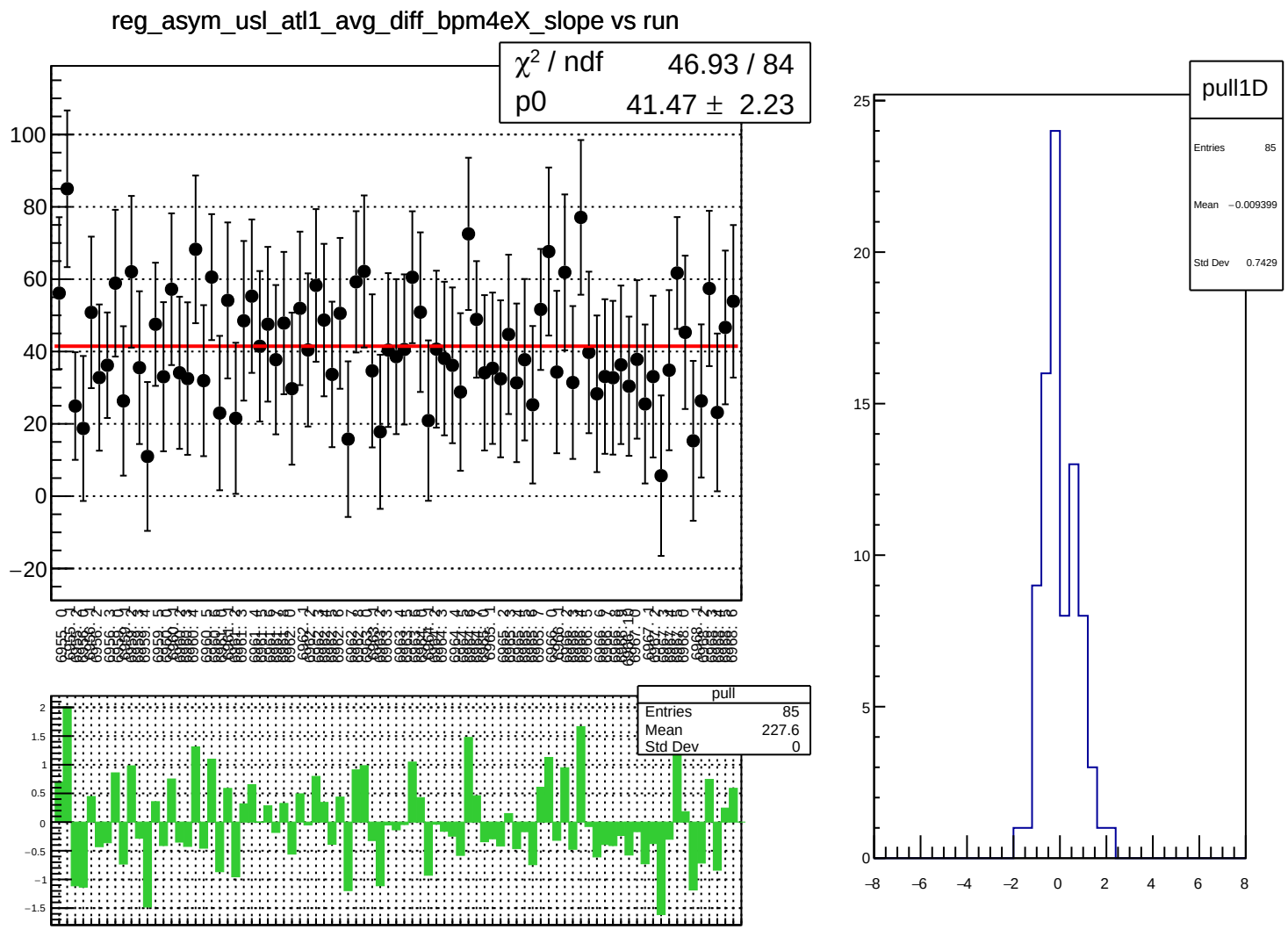

pull1D
Entries 85
Mean −0.003919
Std Dev 0.9631

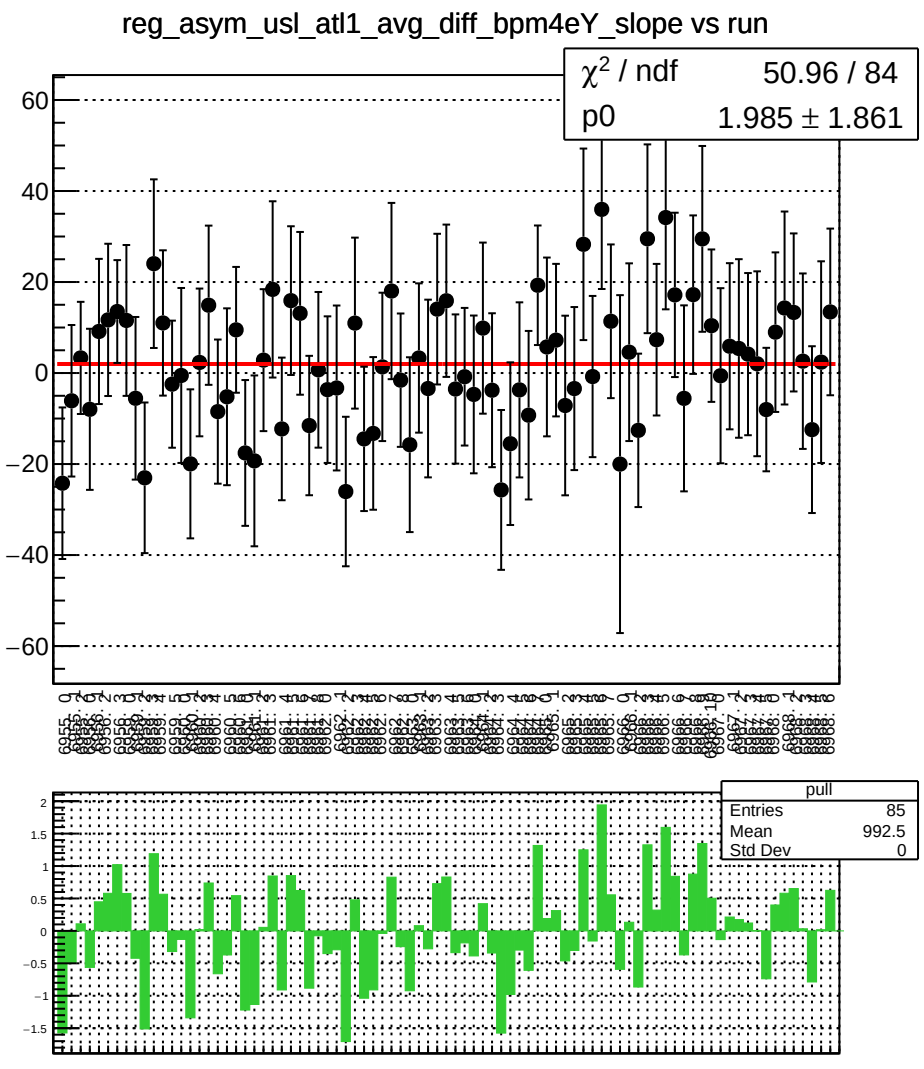

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 83.03 / 84
p0 7.707 ± 0.05141
pull
Entries 85
Mean 431.7
Std Dev 0
pull1D
Entries 85
Mean 0.003341
Std Dev 0.9884

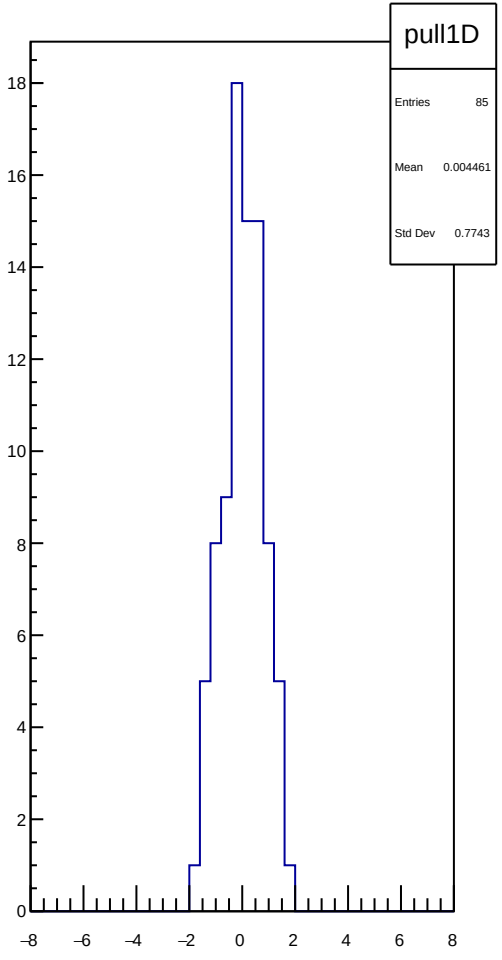

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 47.05 / 84
p0 −56.19 ± 2.414
pull
Entries 85
Mean 243.8
Std Dev 0

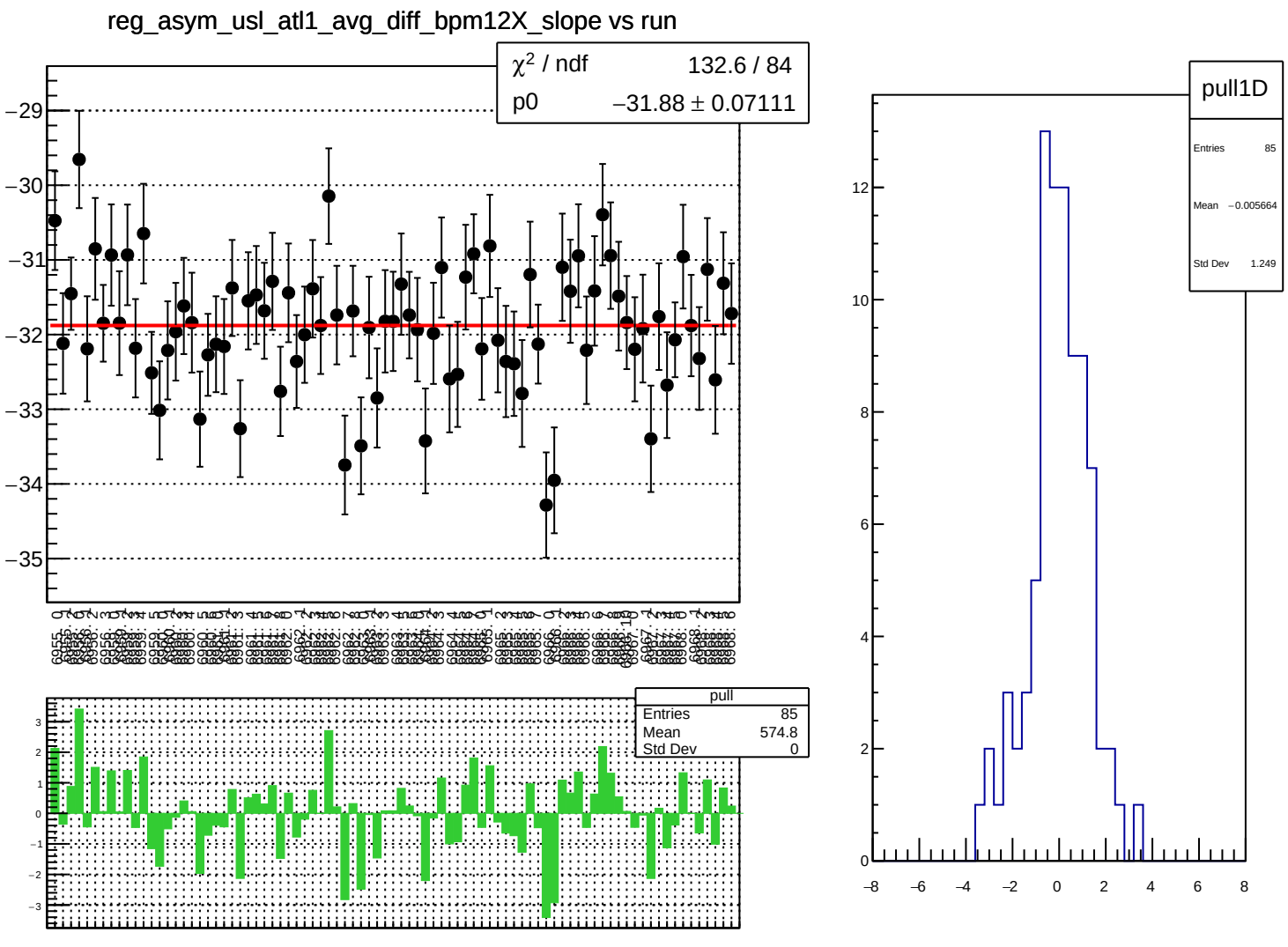

pull1D
Entries 85
Mean 0.008952
Std Dev 0.7439

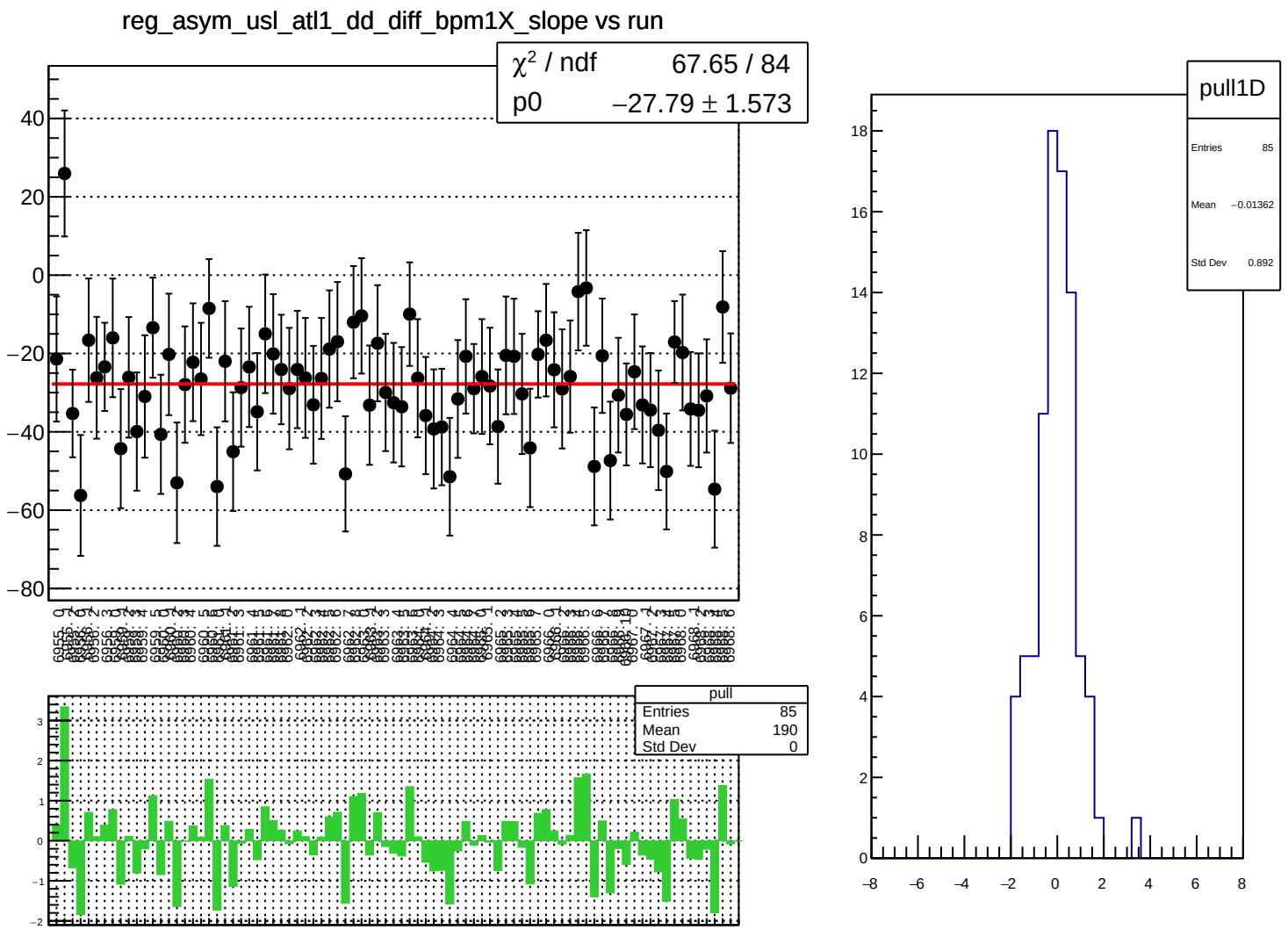

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.52 / 84
p0 6.018 ± 1.639
pull
Entries 85
Mean 2027
Std Dev 0
pull1D
Entries 85
Mean −0.00169
Std Dev 0.7398

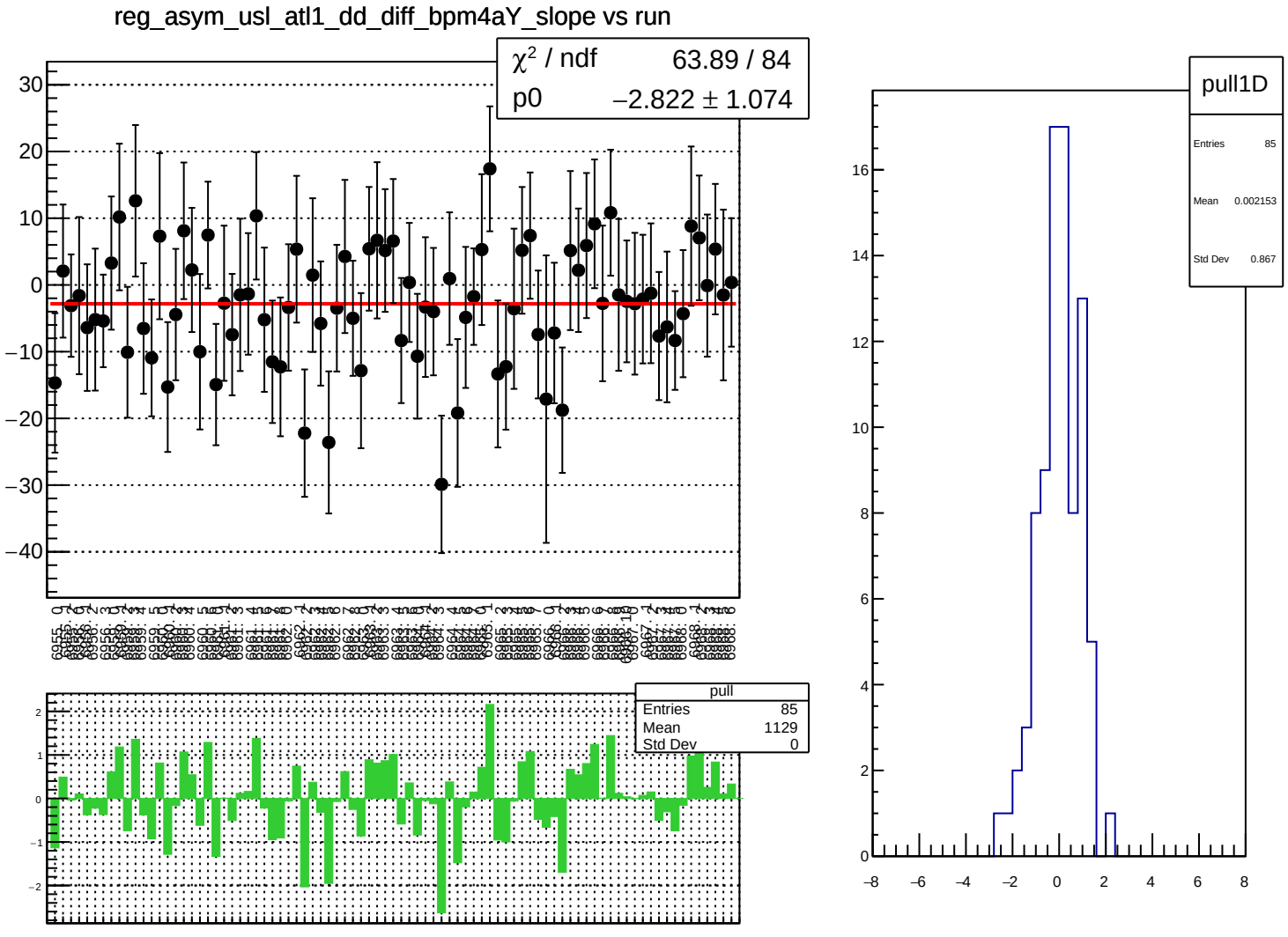

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.93 / 84
p0 41.47 ± 2.23
pull
Entries 85
Mean 227.6
Std Dev 0
pull1D
Entries 85
Mean −0.009399
Std Dev 0.7429

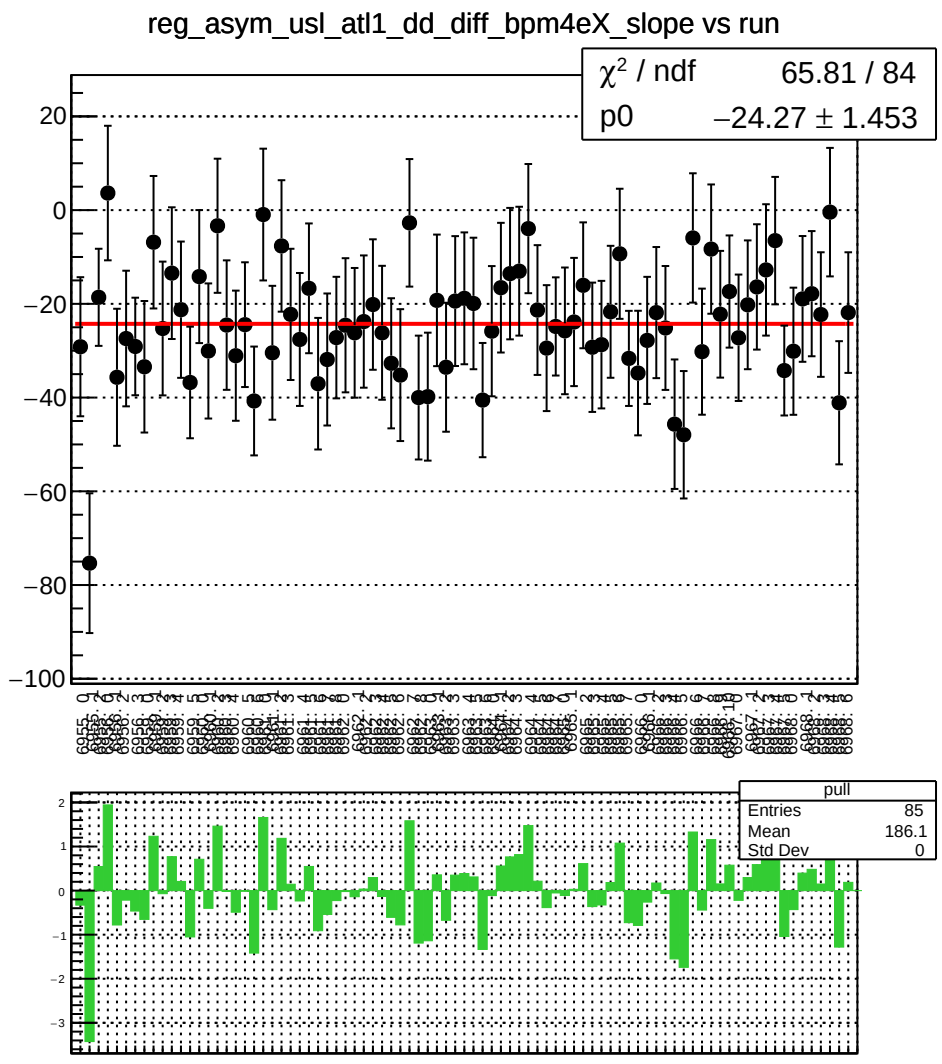

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.96 / 84
p0 1.985 ± 1.861
pull
Entries 85
Mean 992.5
Std Dev 0

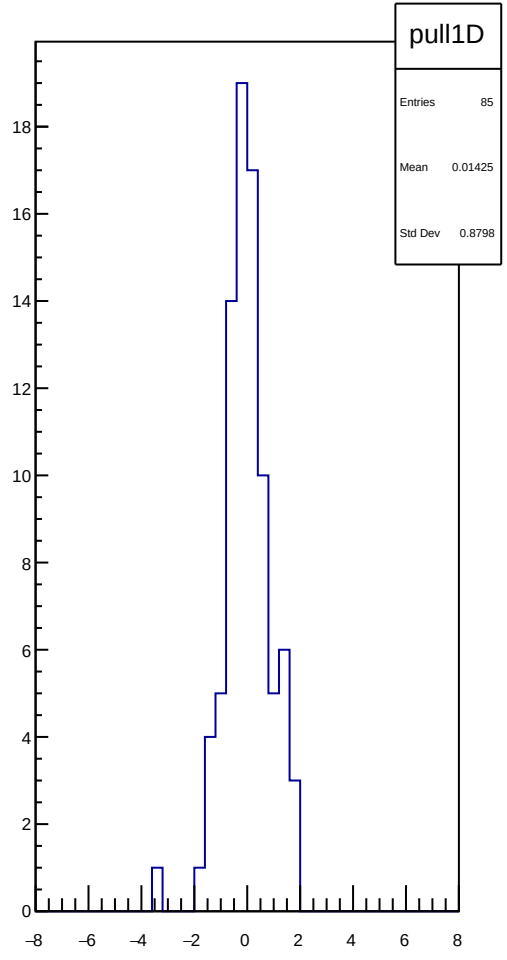

pull1D
Entries 85
Mean 0.004461
Std Dev 0.7743

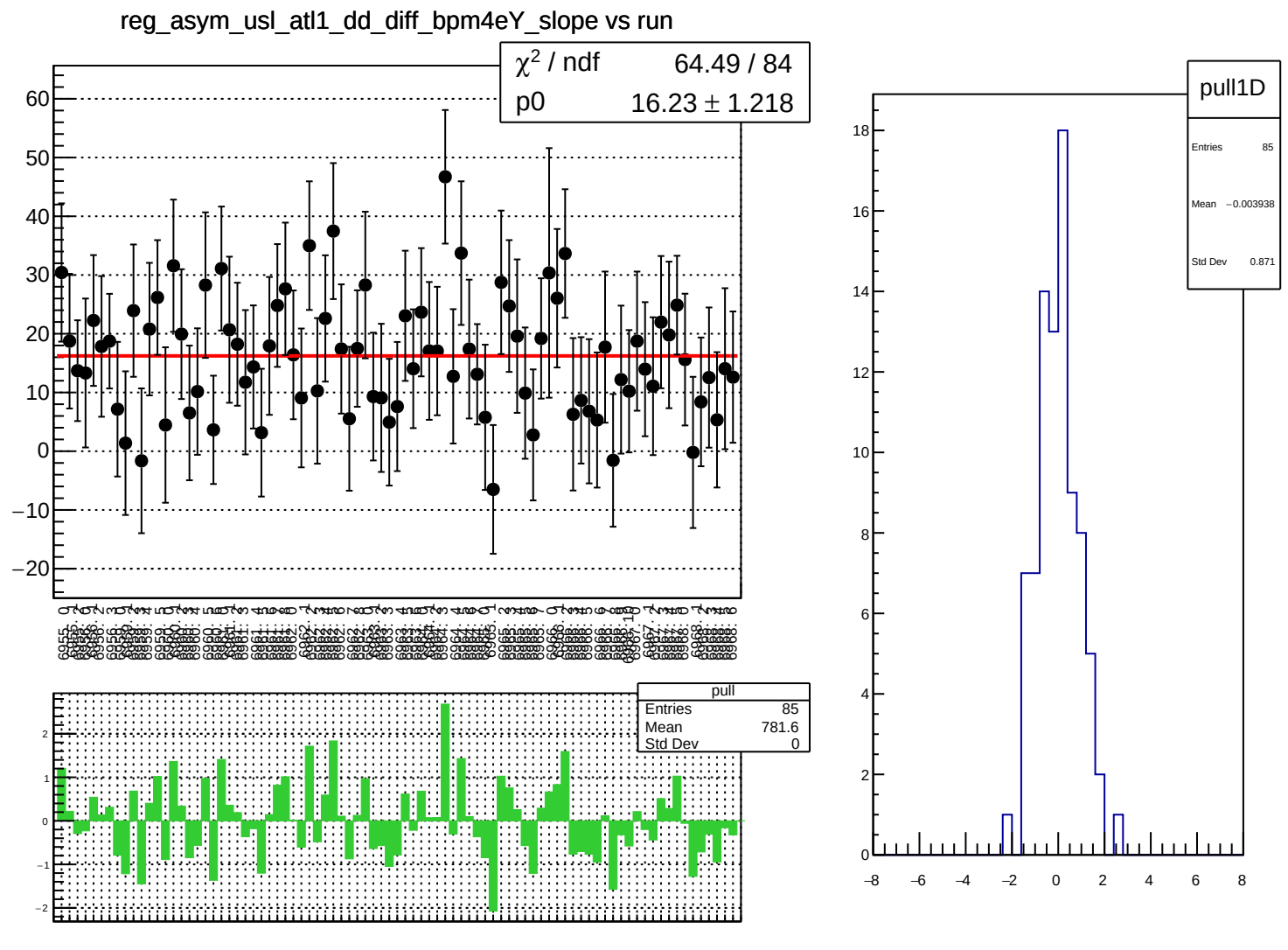

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 132.6 / 84
p0 −31.88 ± 0.07111
pull
Entries 85
Mean 574.8
Std Dev 0
pull1D
Entries 85
Mean −0.005664
Std Dev 1.249

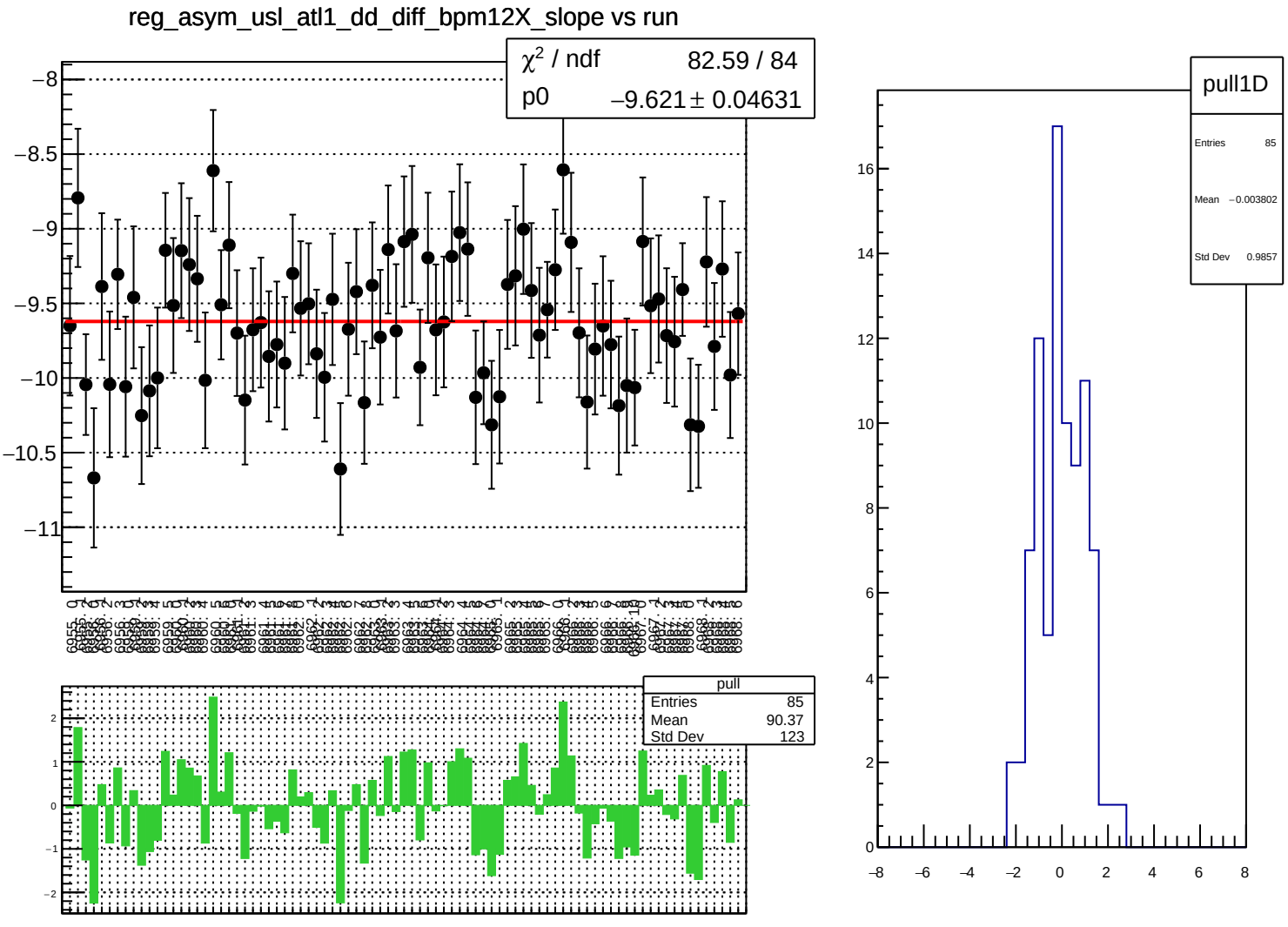

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 67.65 / 84
p0 −27.79 ± 1.573
pull
Entries 85
Mean 190
Std Dev 0
pull1D
Entries 85
Mean −0.01362
Std Dev 0.892

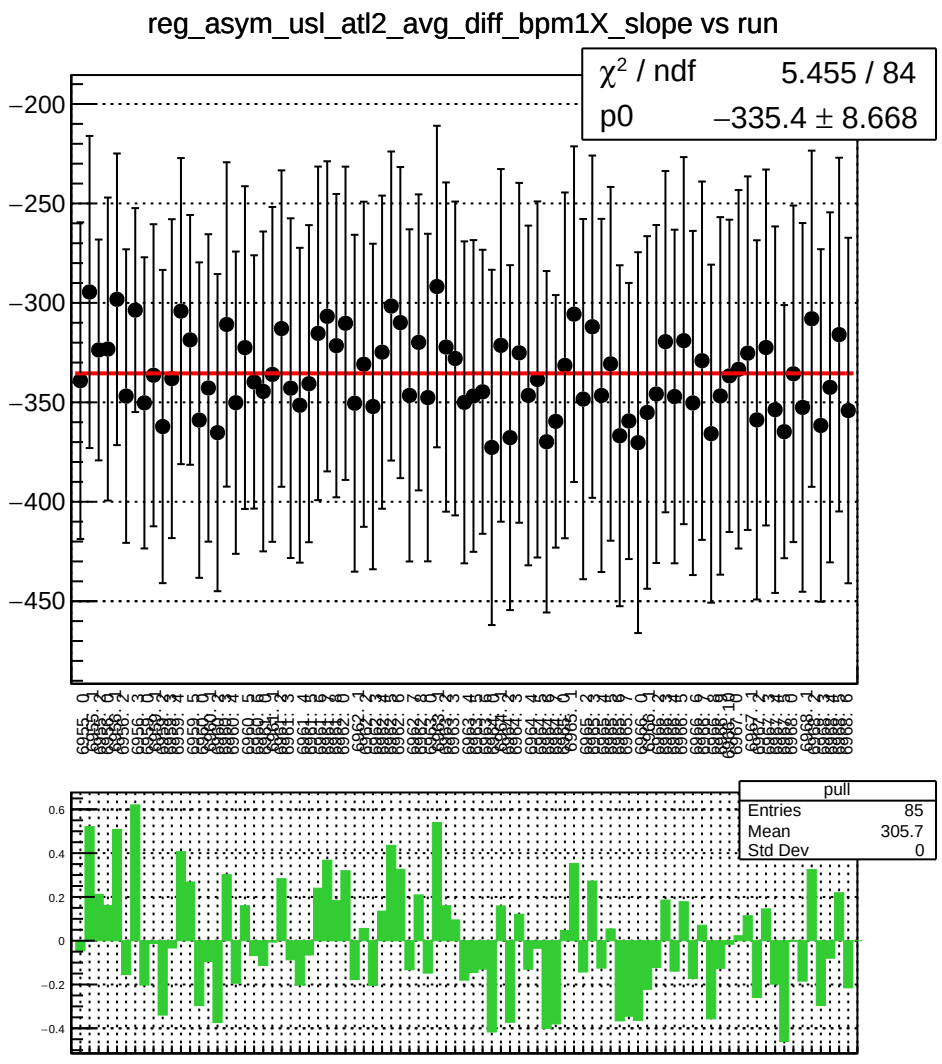

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.89 / 84
p0 −2.822 ± 1.074
pull
Entries 85
Mean 1129
Std Dev 0
pull1D
Entries 85
Mean 0.002153
Std Dev 0.867

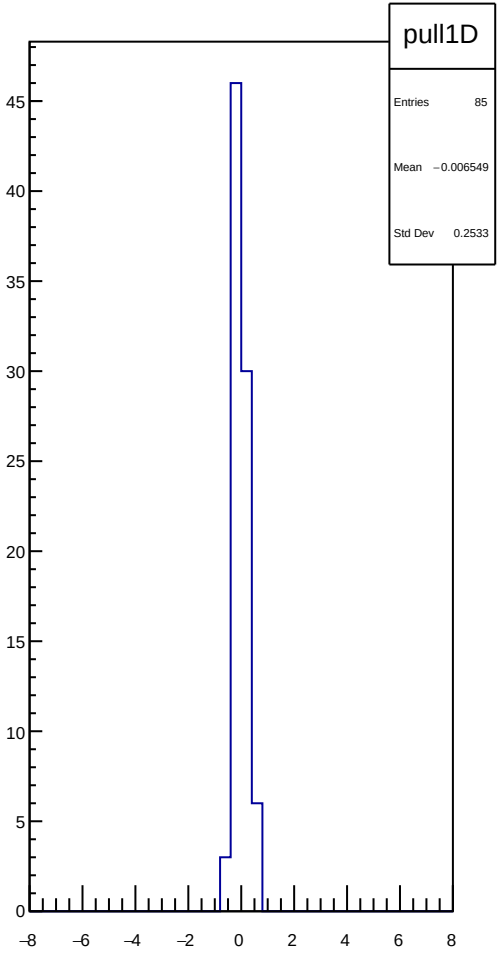

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.81 / 84
p0 −24.27 ± 1.453
pull
Entries 85
Mean 186.1
Std Dev 0

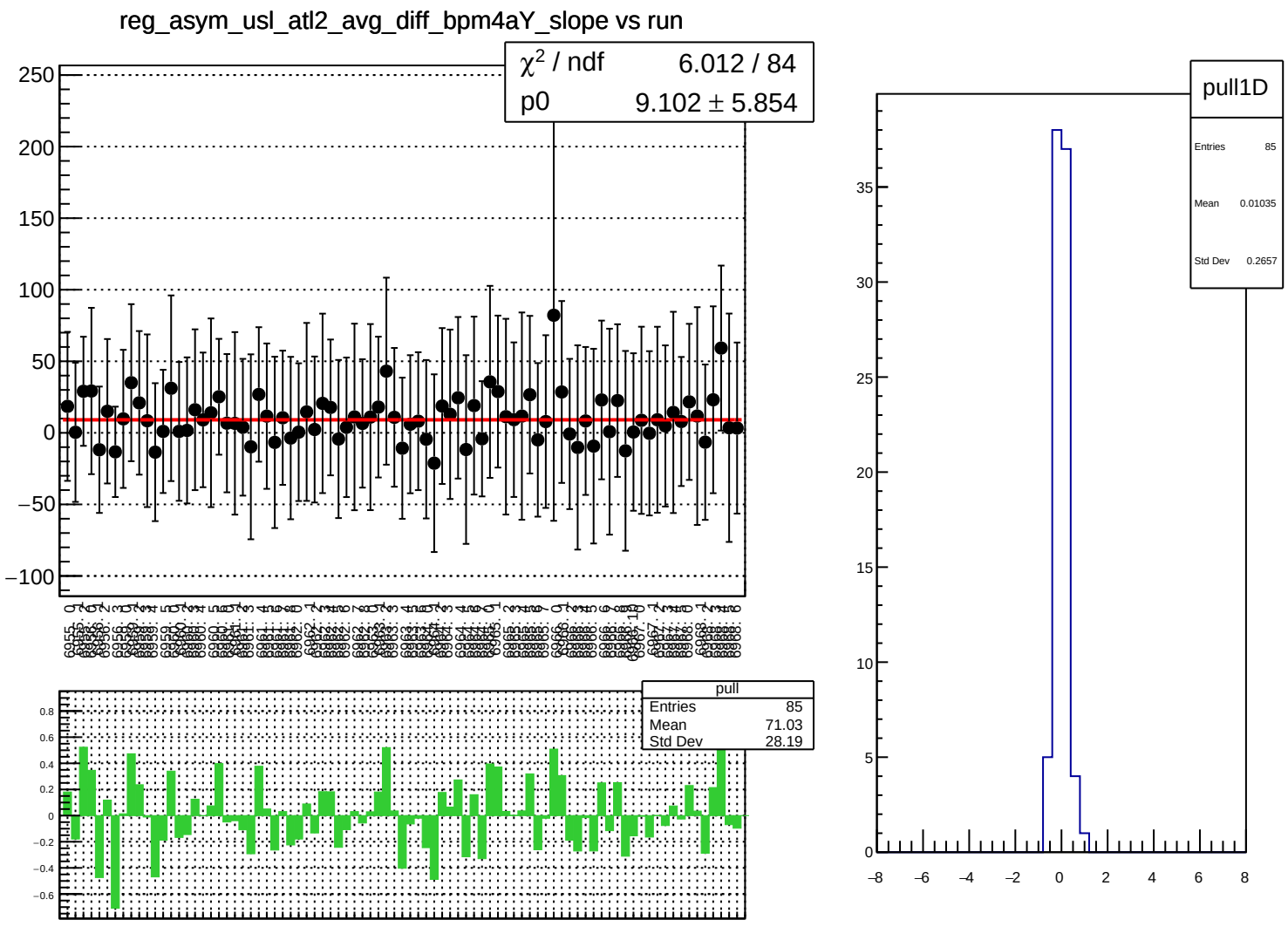

pull1D
Entries 85
Mean 0.01425
Std Dev 0.8798

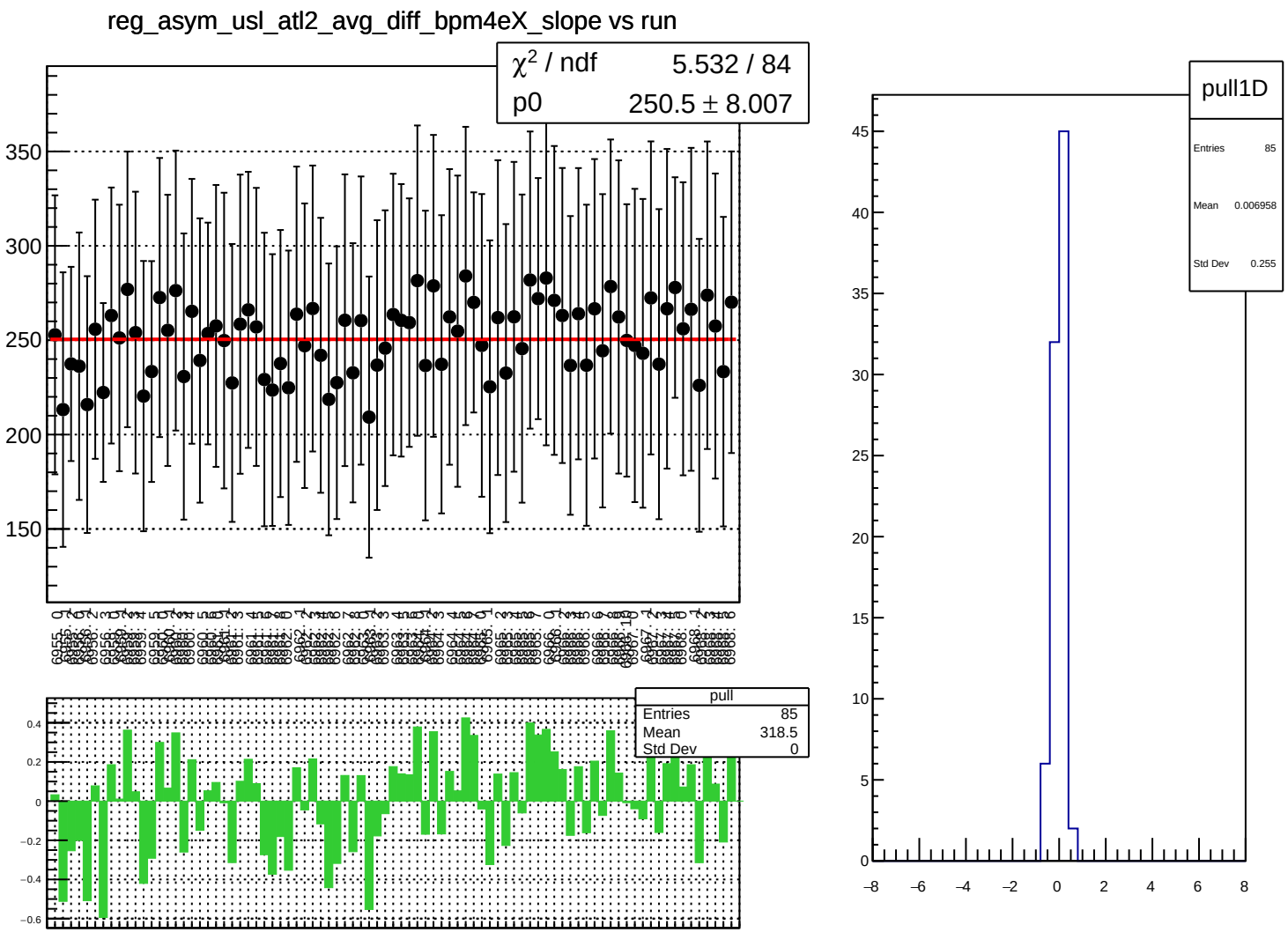

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.49 / 84
p0 16.23 ± 1.218
pull
Entries 85
Mean 781.6
Std Dev 0
pull1D
Entries 85
Mean −0.003938
Std Dev 0.871

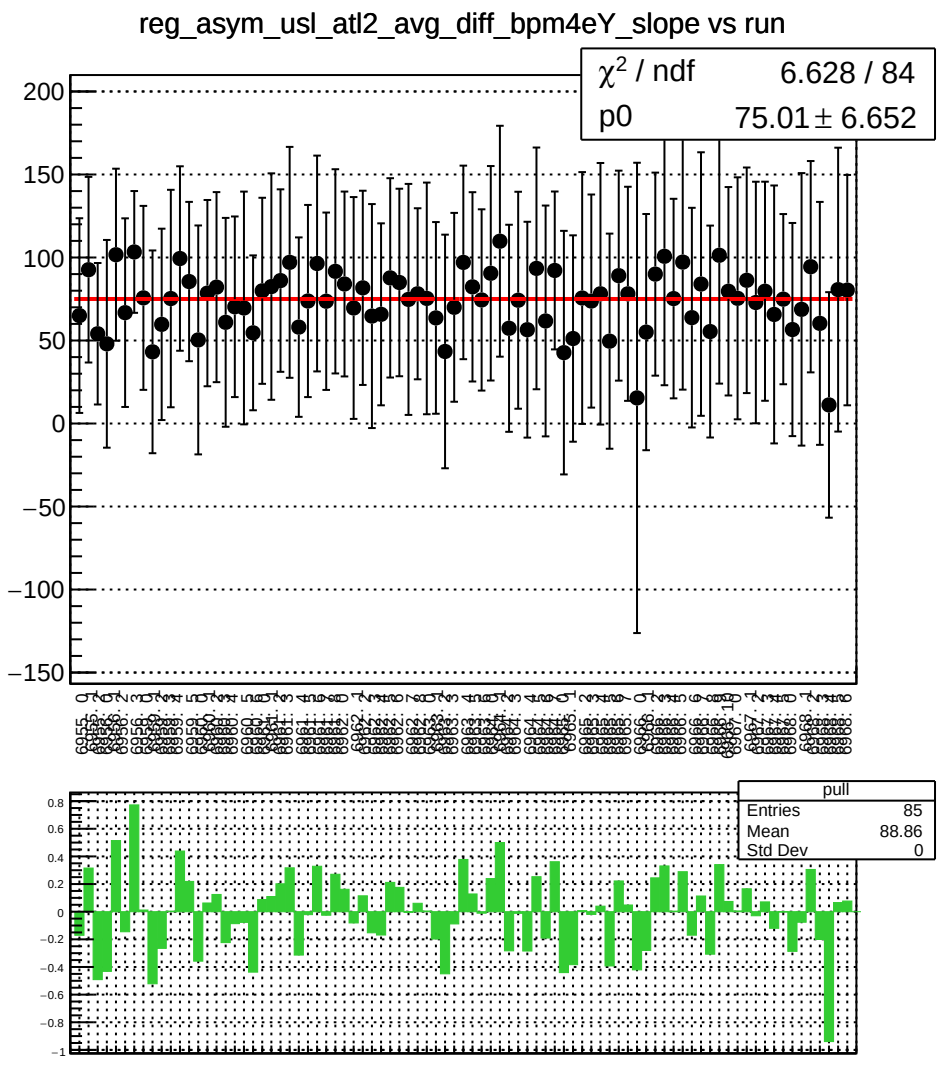

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 82.59 / 84
p0 −9.621 ± 0.04631
pull
Entries 85
Mean 90.37
Std Dev 123
pull1D
Entries 85
Mean −0.003802
Std Dev 0.9857

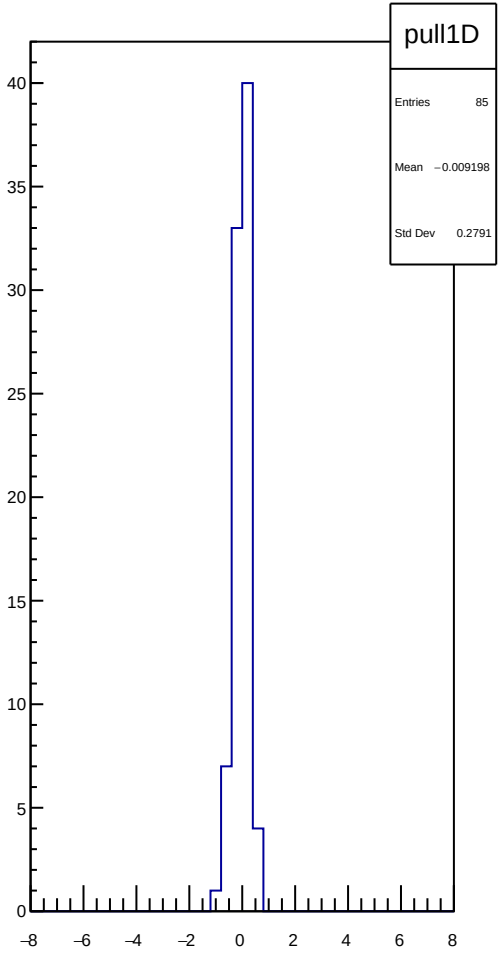

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.455 / 84
p0 −335.4 ± 8.668
−200
−250
−300
−350
−400
−450
pull
Entries 85
Mean 305.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

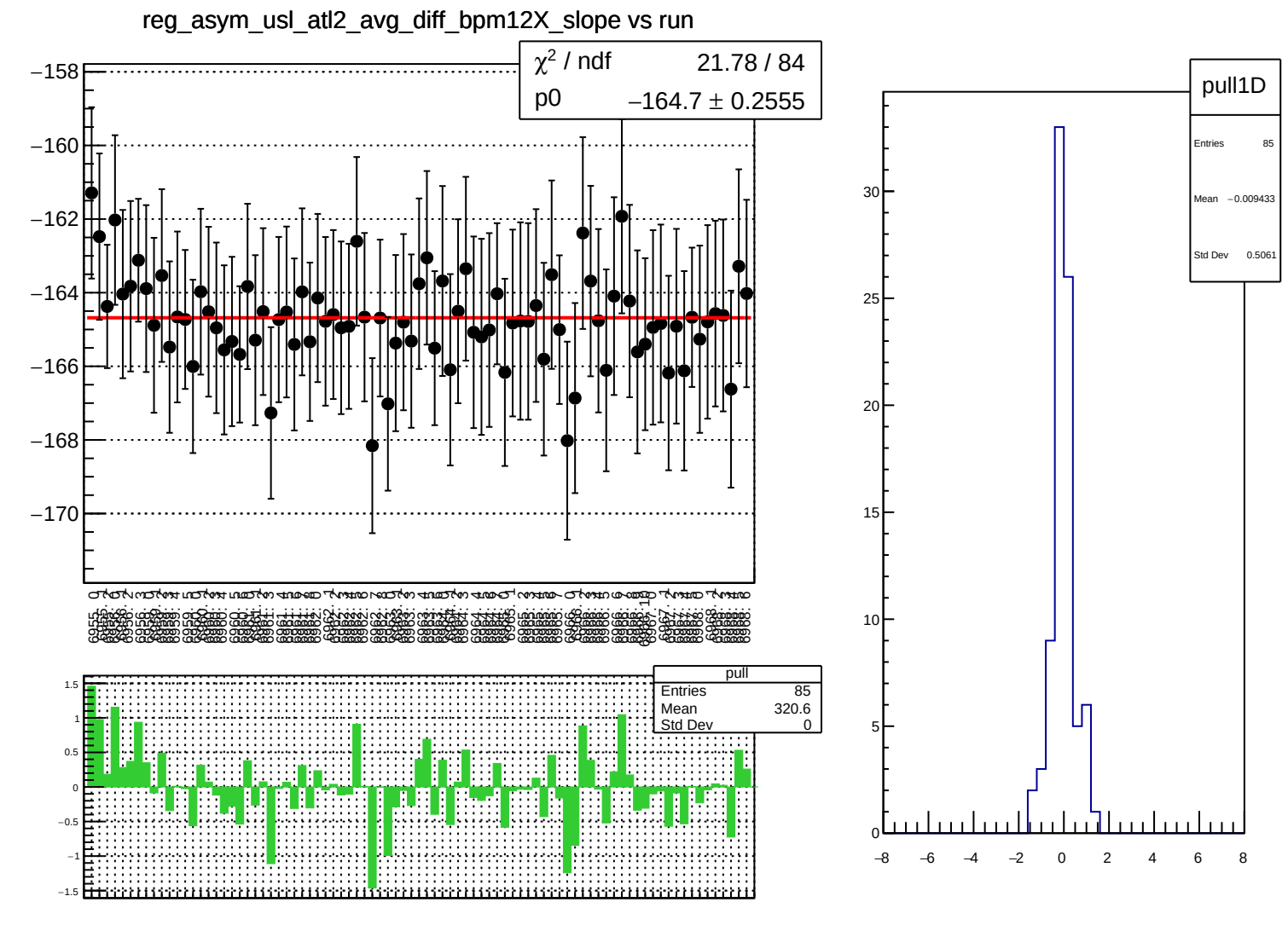

pull1D
Entries 85
Mean −0.006549
Std Dev 0.2533
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

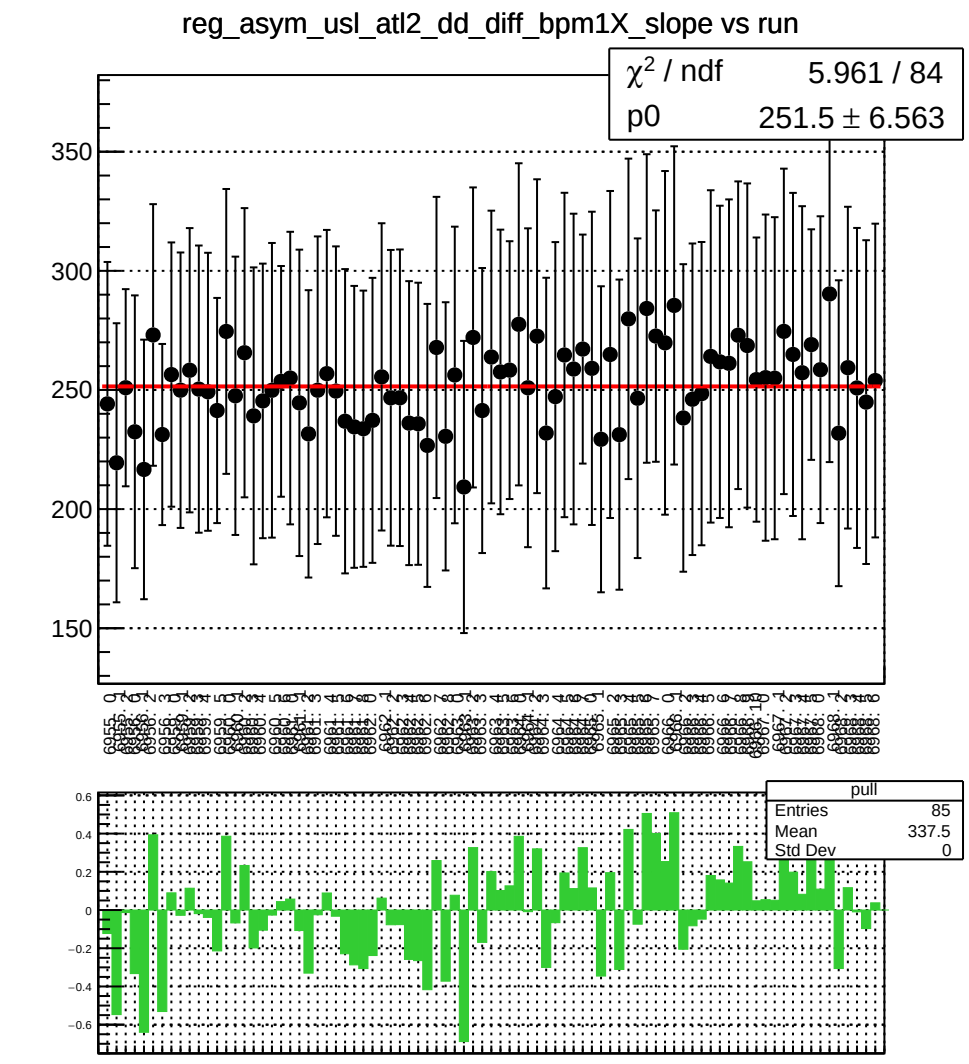

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.012 / 84
p0 9.102 ± 5.854
pull
Entries 85
Mean 71.03
Std Dev 28.19
pull1D
Entries 85
Mean 0.01035
Std Dev 0.2657

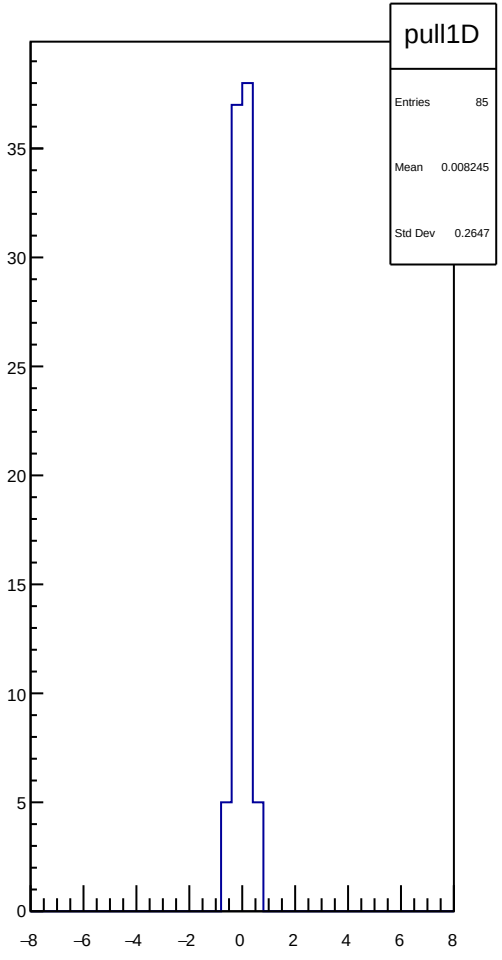

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.532 / 84
p0 250.5 ± 8.007
350
300
250
200
150
pull
Entries 85
Mean 318.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean 0.006958
Std Dev 0.255
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

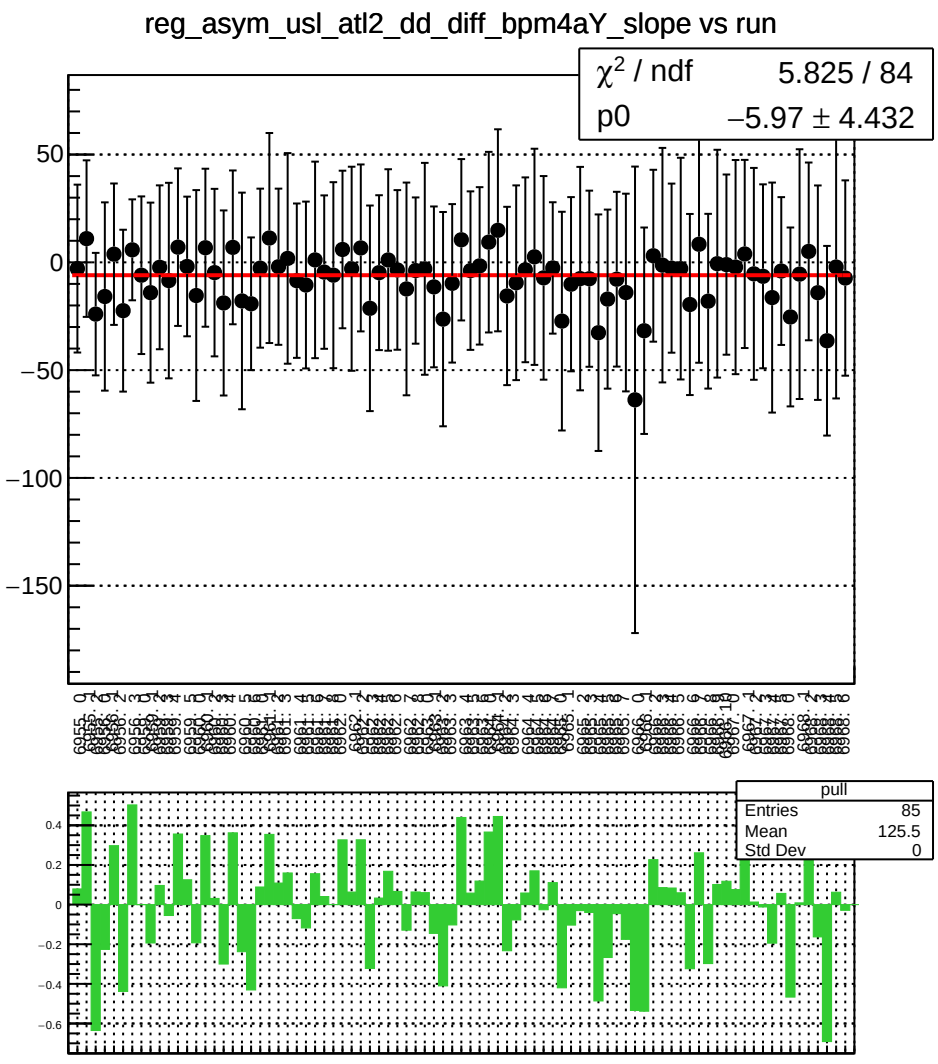

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.628 / 84
p0 75.01 ± 6.652
pull
Entries 85
Mean 88.86
Std Dev 0

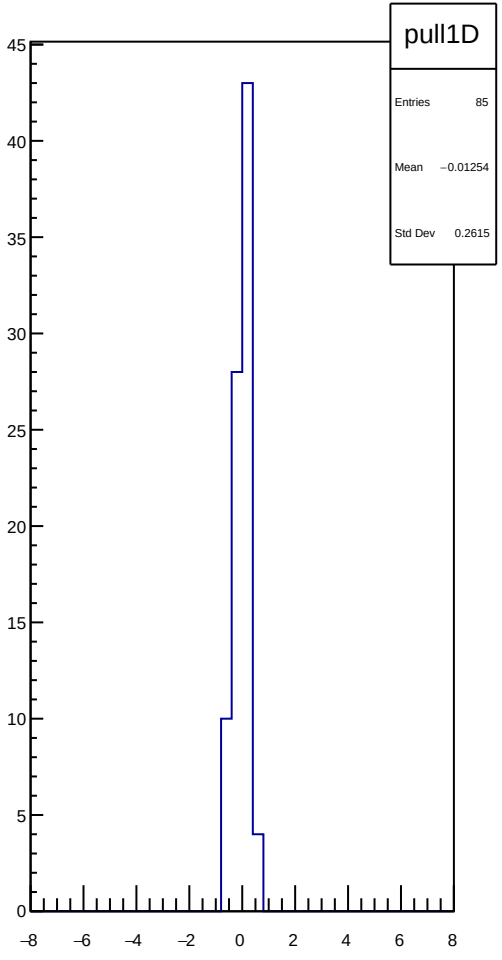

pull1D
Entries 85
Mean −0.009198
Std Dev 0.2791

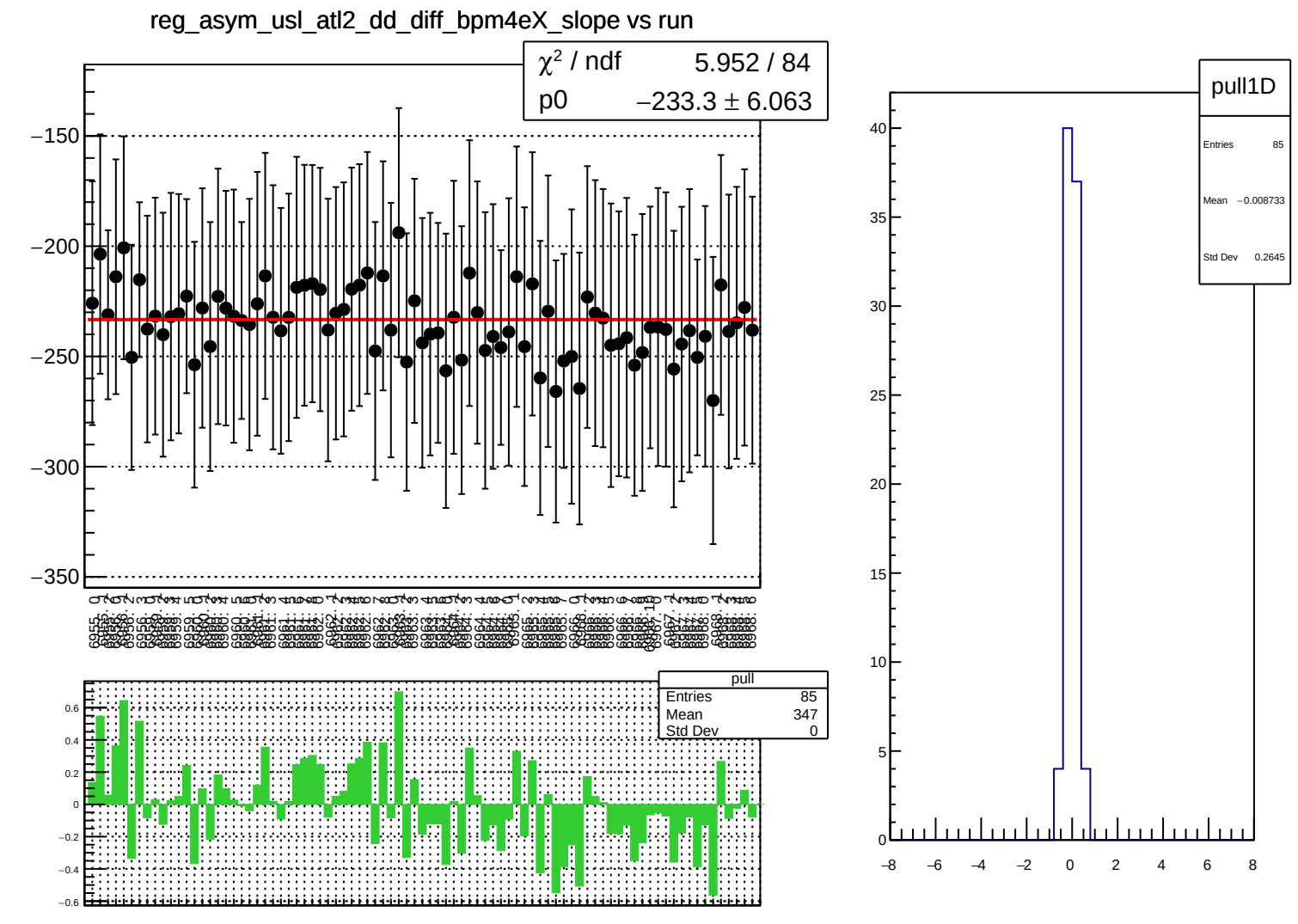

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 21.78 / 84
p0 −164.7 ± 0.2555
−158
−160
−162
−164
−166
−168
−170
pull
Entries 85
Mean 320.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.009433
Std Dev 0.5061
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

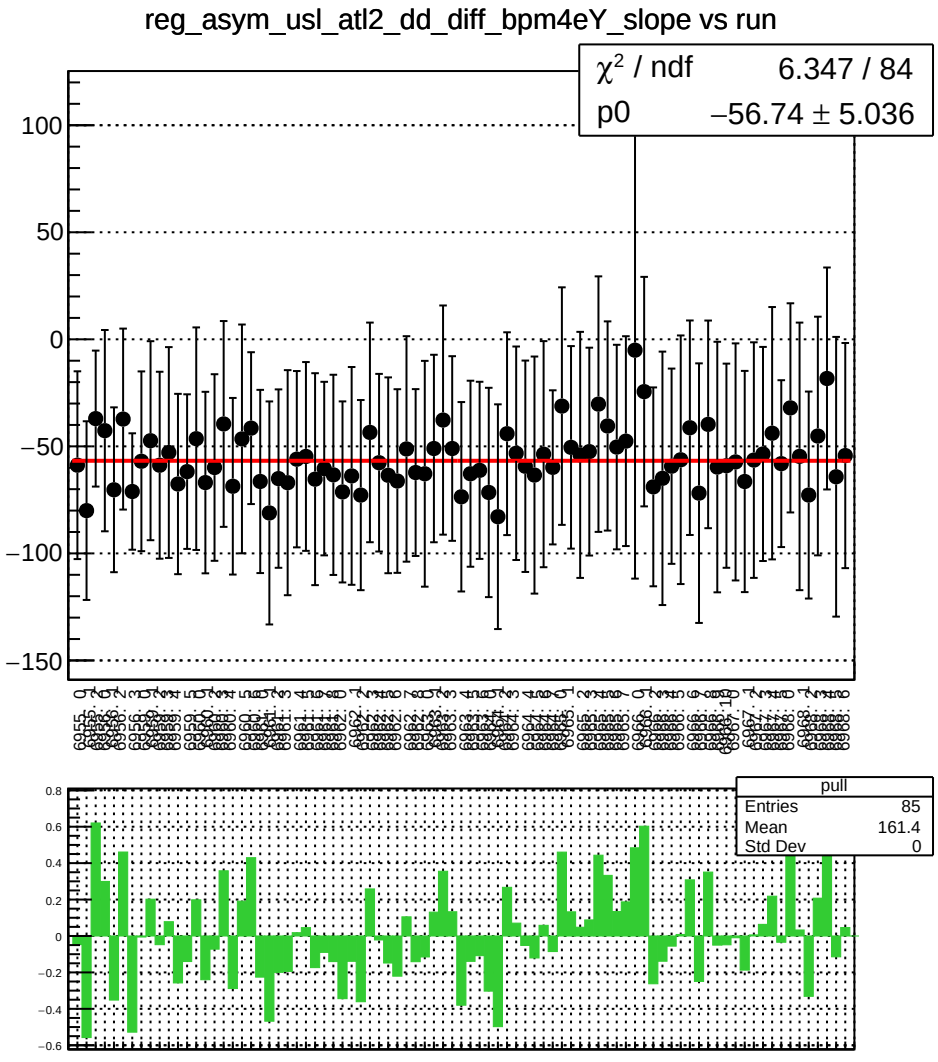

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.961 / 84
p0 251.5 ± 6.563
350
300
250
200
150
pull
Entries 85
Mean 337.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

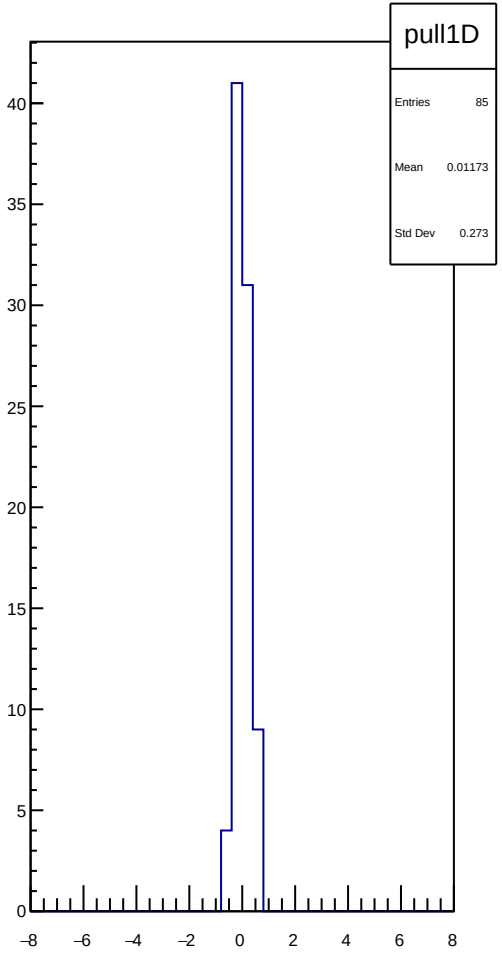

pull1D
Entries 85
Mean 0.008245
Std Dev 0.2647
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

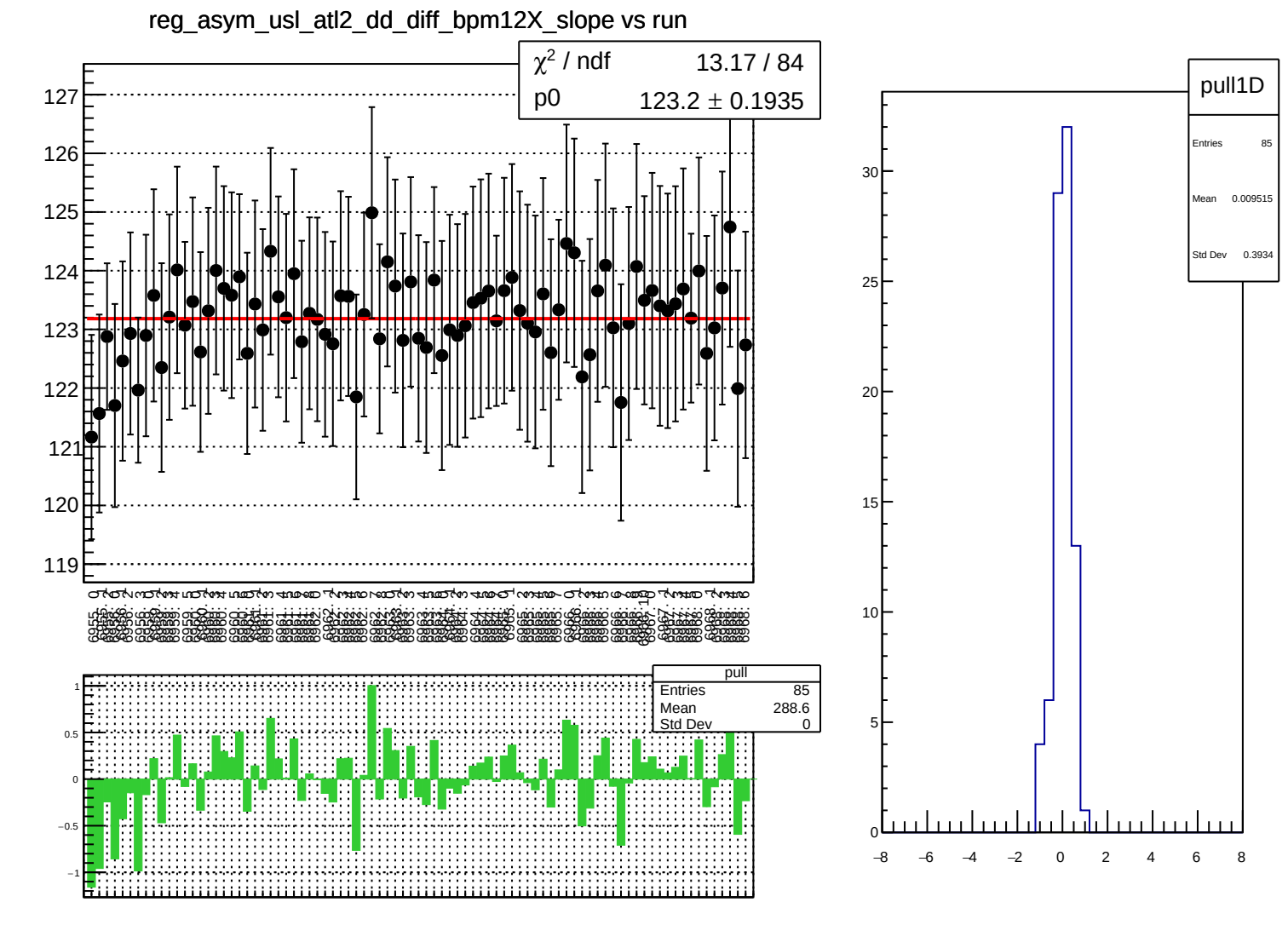

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.825 / 84
p0 −5.97 ± 4.432
pull
Entries 85
Mean 125.5
Std Dev 0

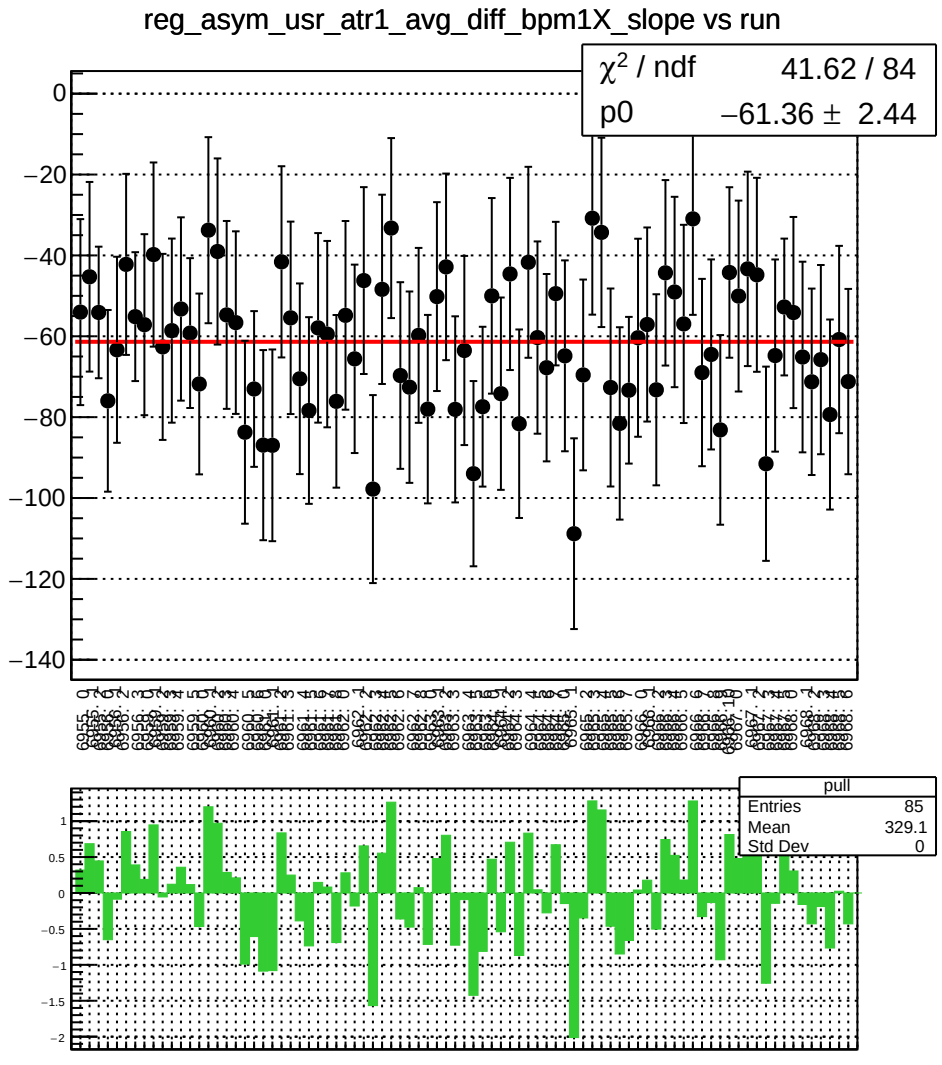

pull1D
Entries 85
Mean −0.01254
Std Dev 0.2615

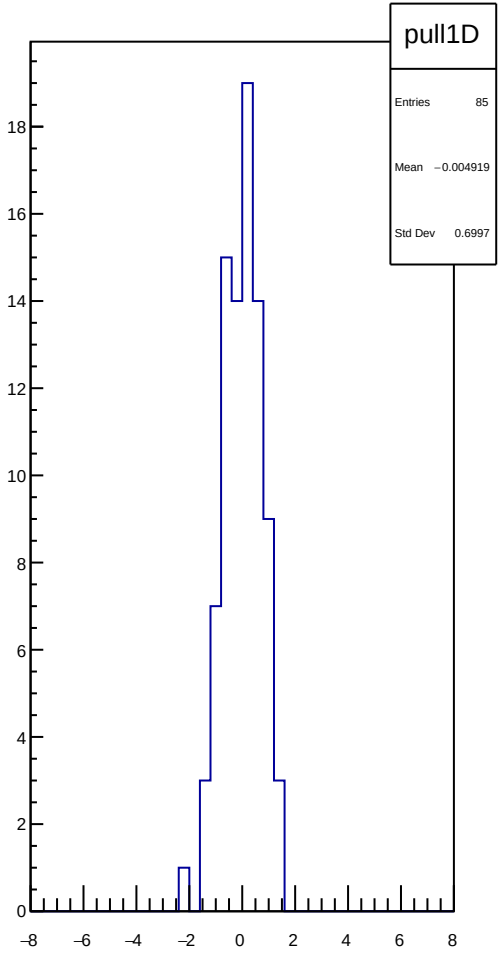

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.952 / 84
p0 −233.3 ± 6.063
−150
−200
−250
−300
−350
pull
Entries 85
Mean 347
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.008733
Std Dev 0.2645
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

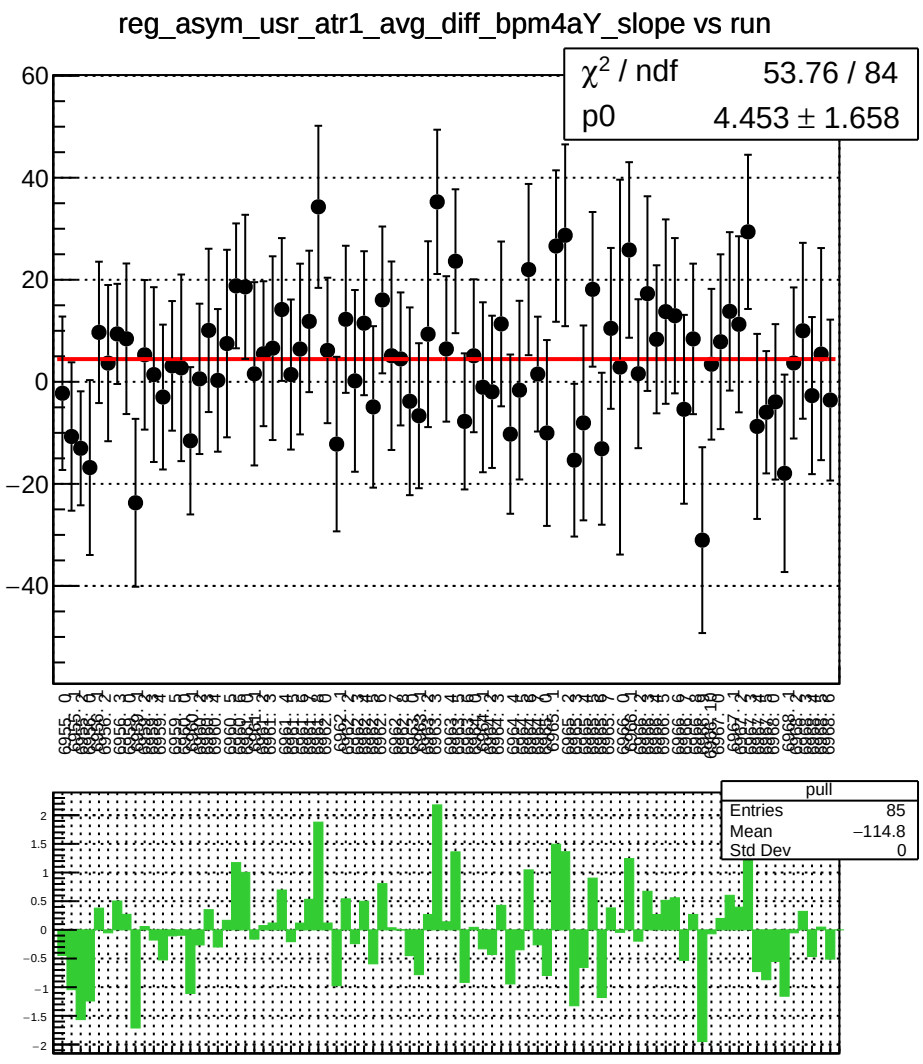

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.347 / 84
p0 −56.74 ± 5.036
pull
Entries 85
Mean 161.4
Std Dev 0

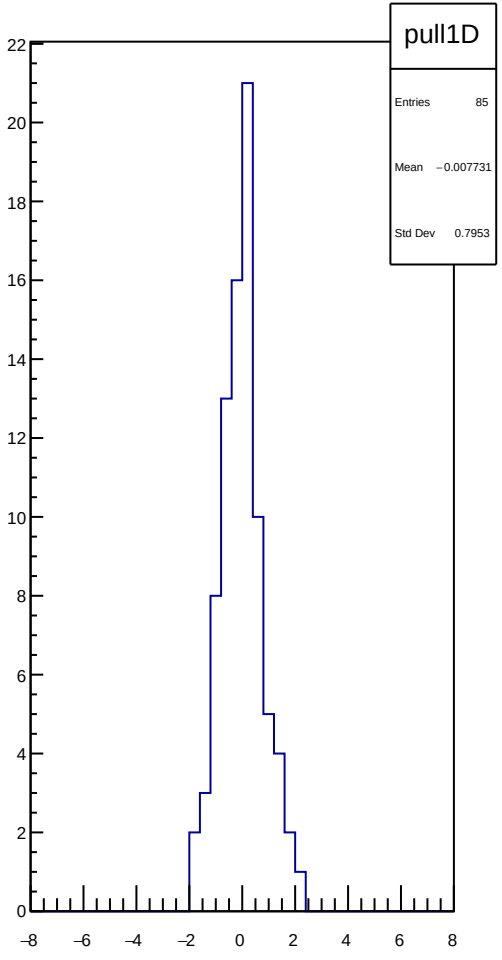

pull1D
Entries 85
Mean 0.01173
Std Dev 0.273

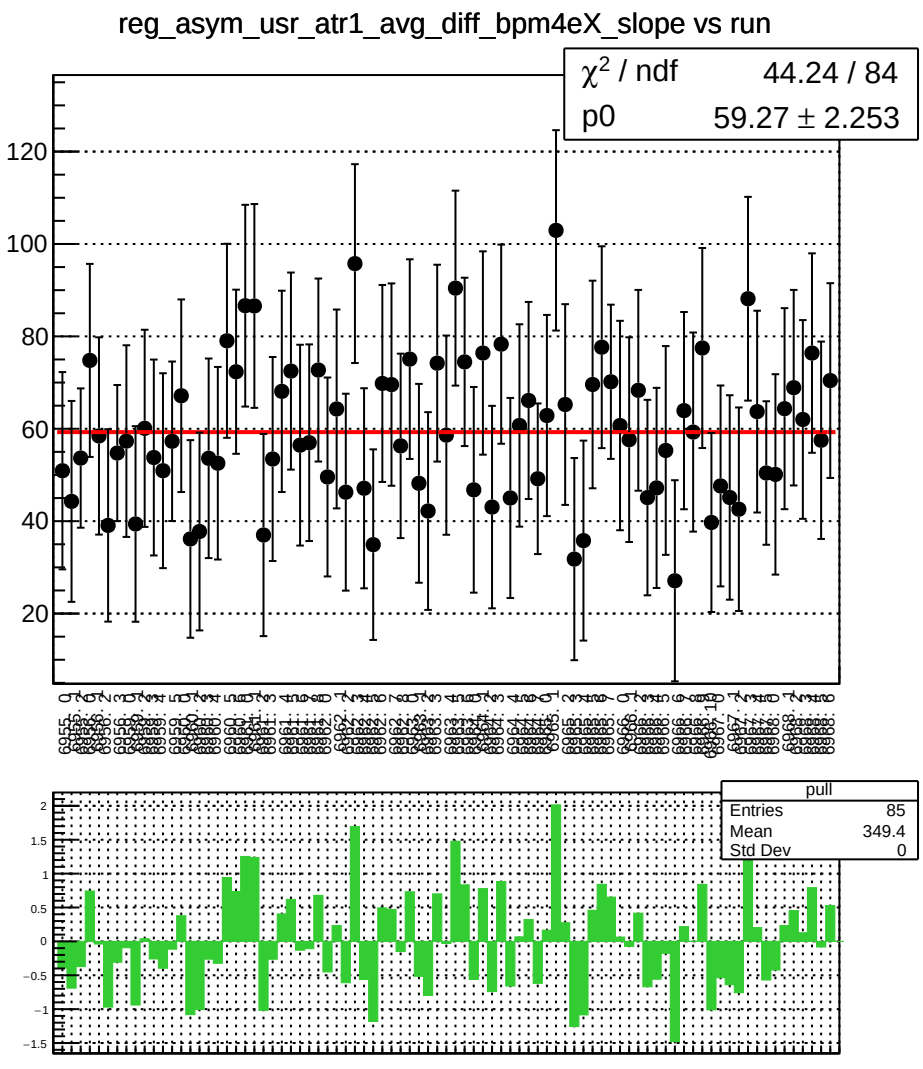

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.17 / 84
p0 123.2 ± 0.1935
pull
Entries 85
Mean 288.6
Std Dev 0
pull1D
Entries 85
Mean 0.009515
Std Dev 0.3934

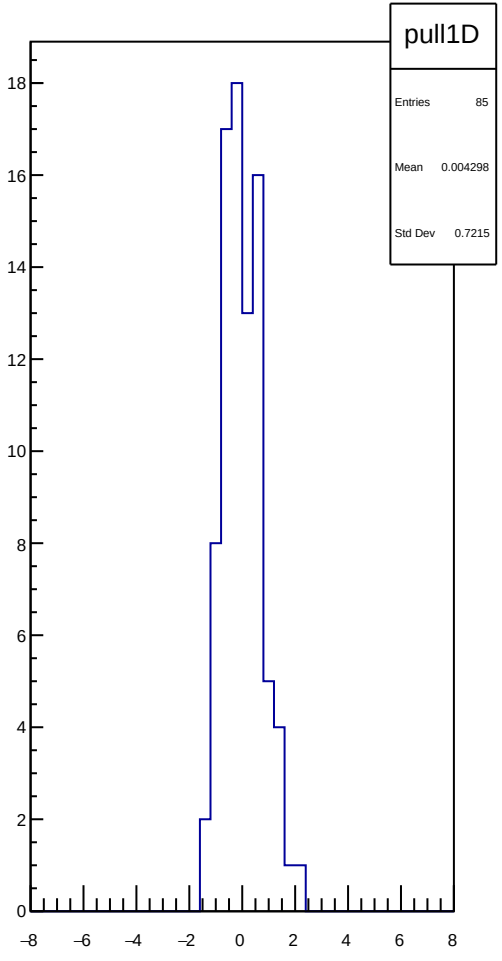

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 41.62 / 84
p0 −61.36 ± 2.44
pull
Entries 85
Mean 329.1
Std Dev 0

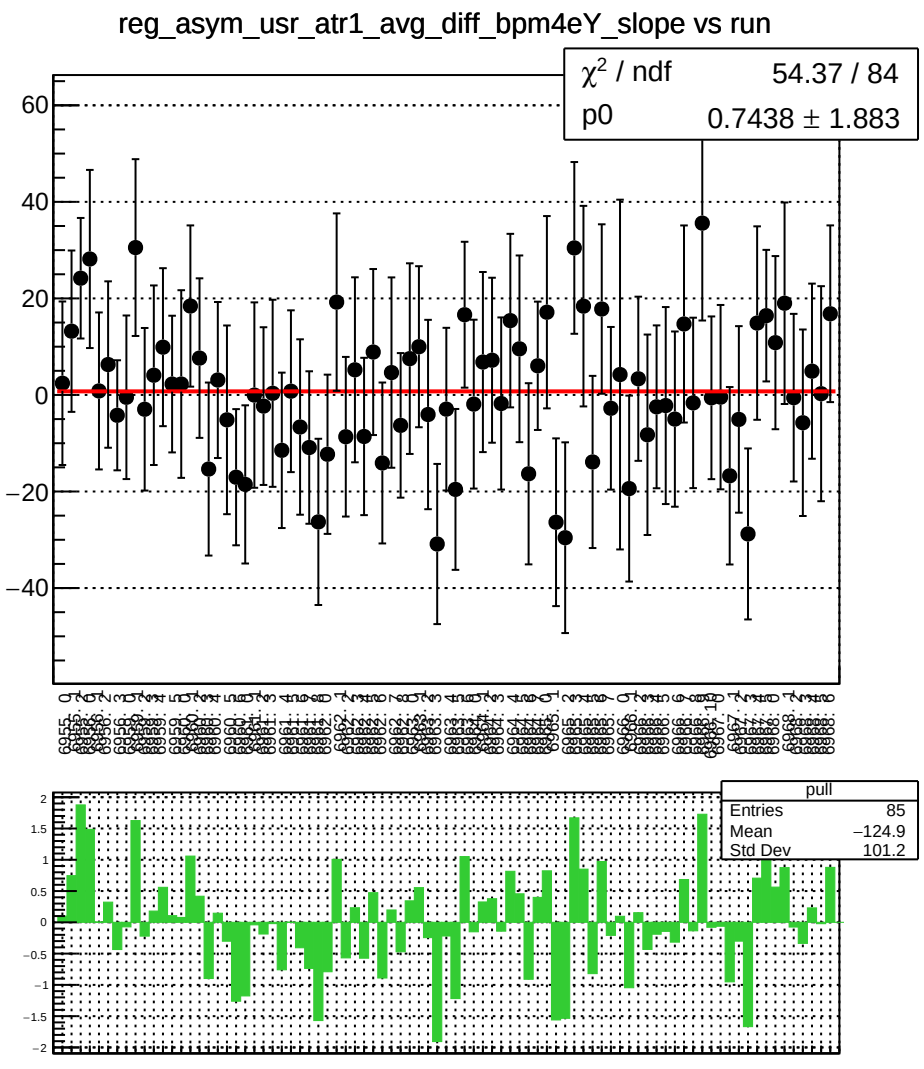

pull1D
Entries 85
Mean −0.004919
Std Dev 0.6997

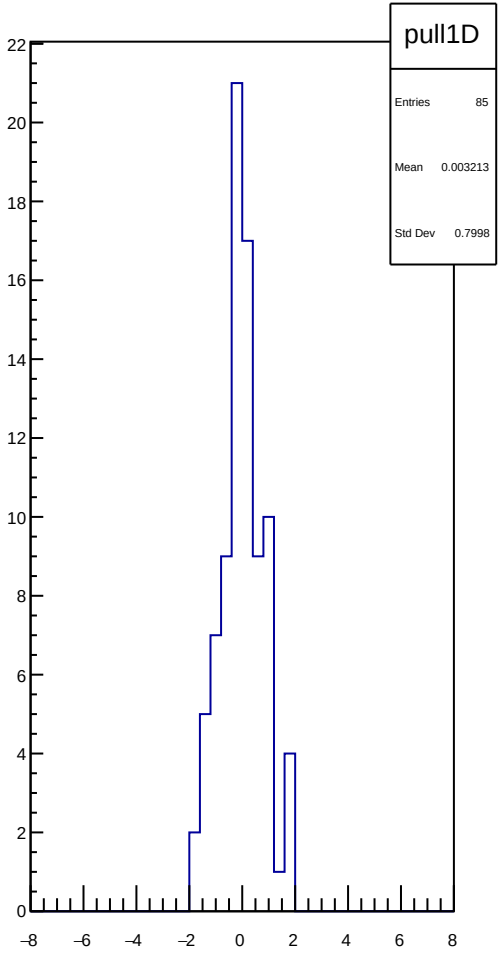

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.76 / 84
p0 4.453 ± 1.658
pull
Entries 85
Mean −114.8
Std Dev 0

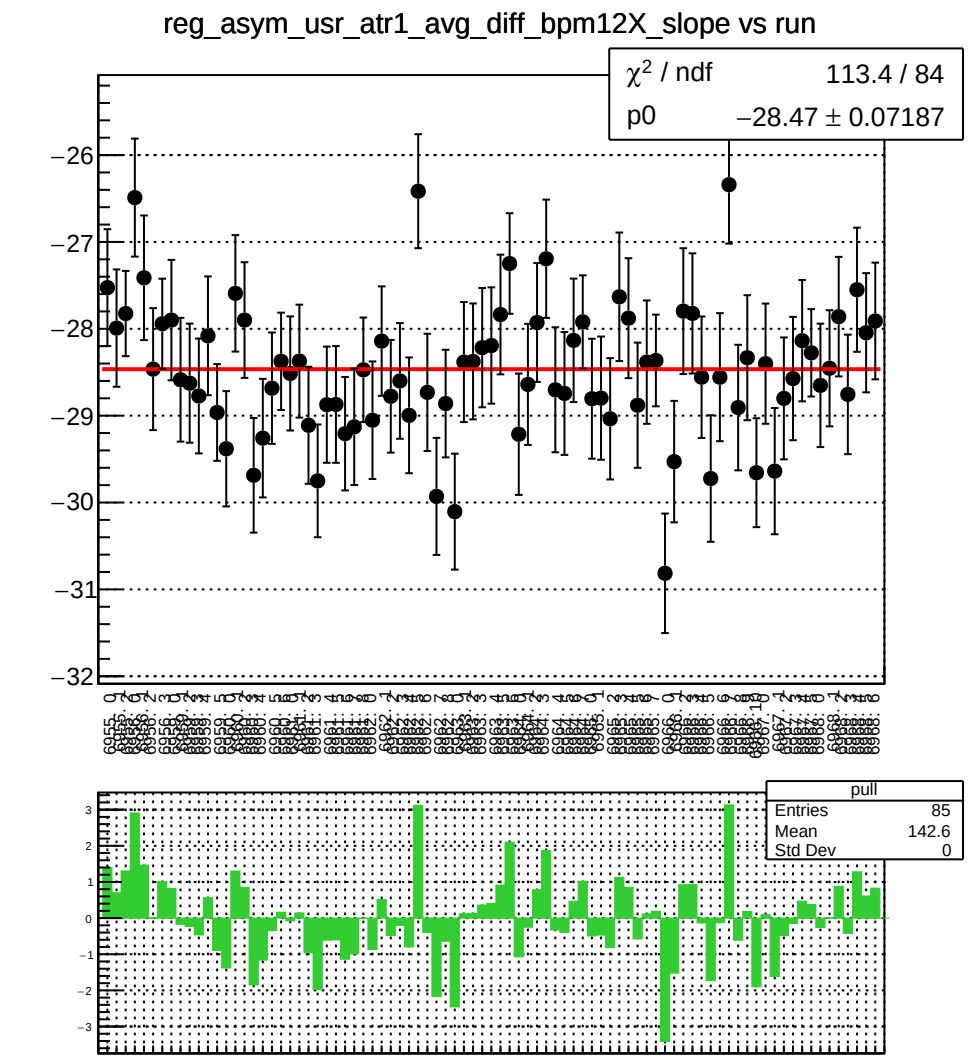

pull1D
Entries 85
Mean −0.007731
Std Dev 0.7953

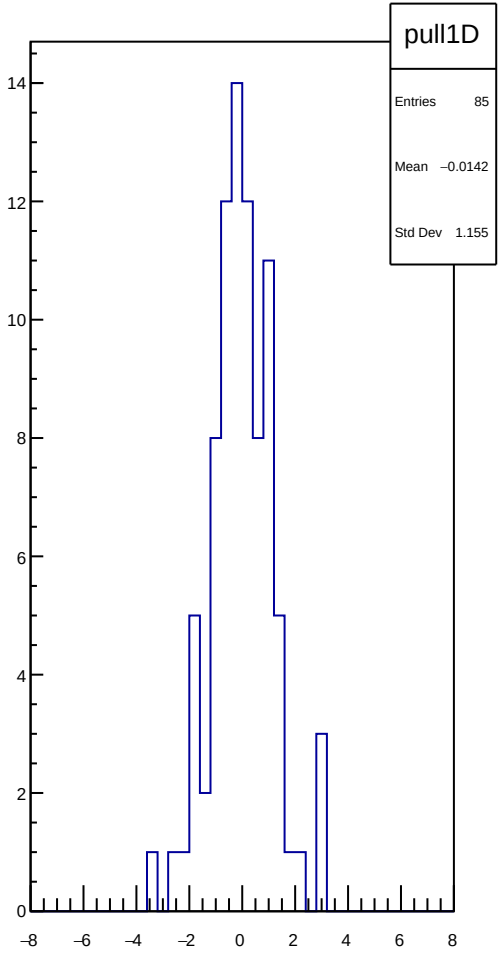

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 44.24 / 84
p0 59.27 ± 2.253
pull
Entries 85
Mean 349.4
Std Dev 0

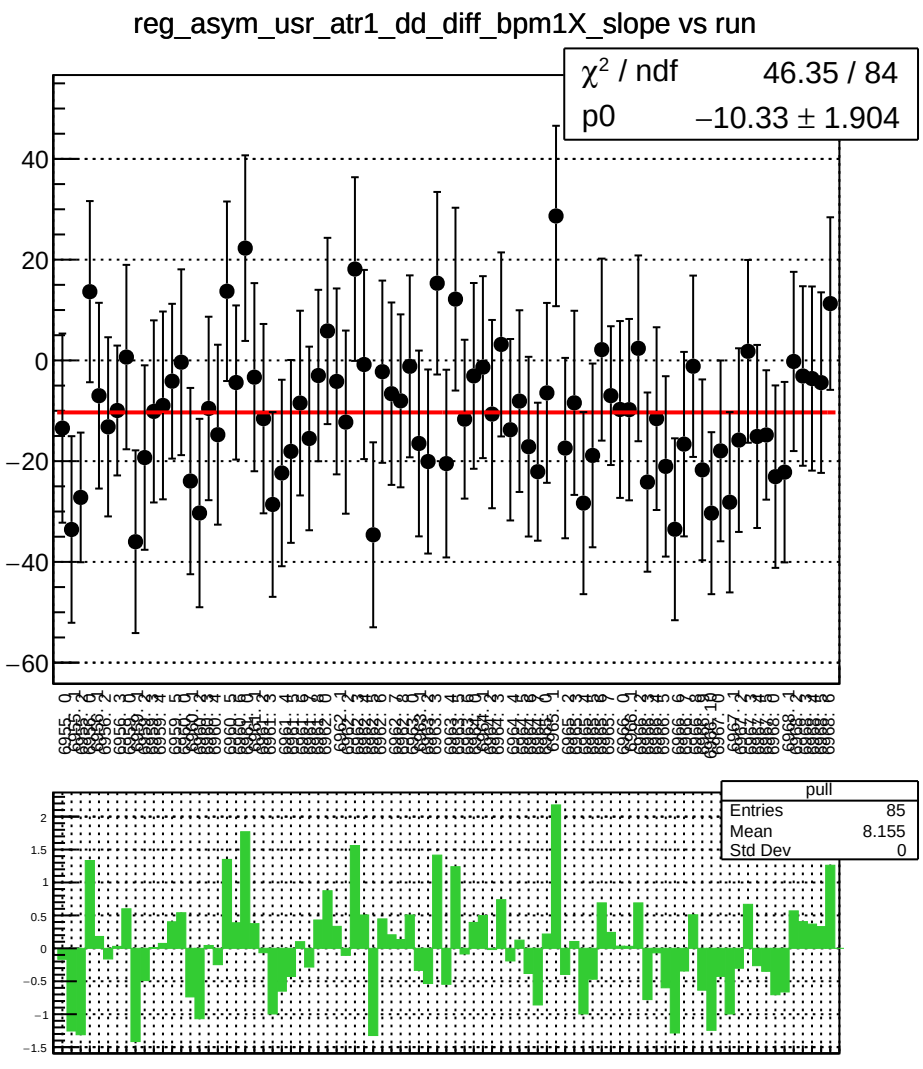

pull1D
Entries 85
Mean 0.004298
Std Dev 0.7215

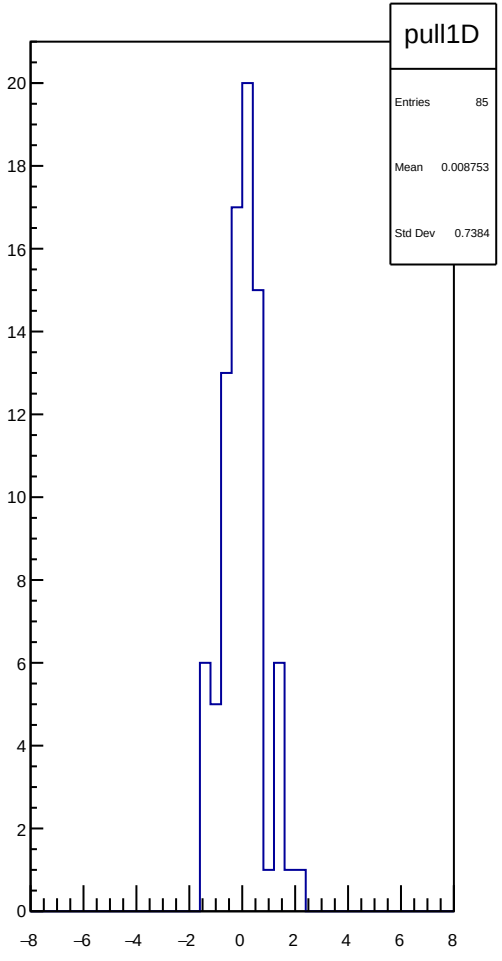

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.37 / 84
p0 0.7438 ± 1.883
pull
Entries 85
Mean −124.9
Std Dev 101.2

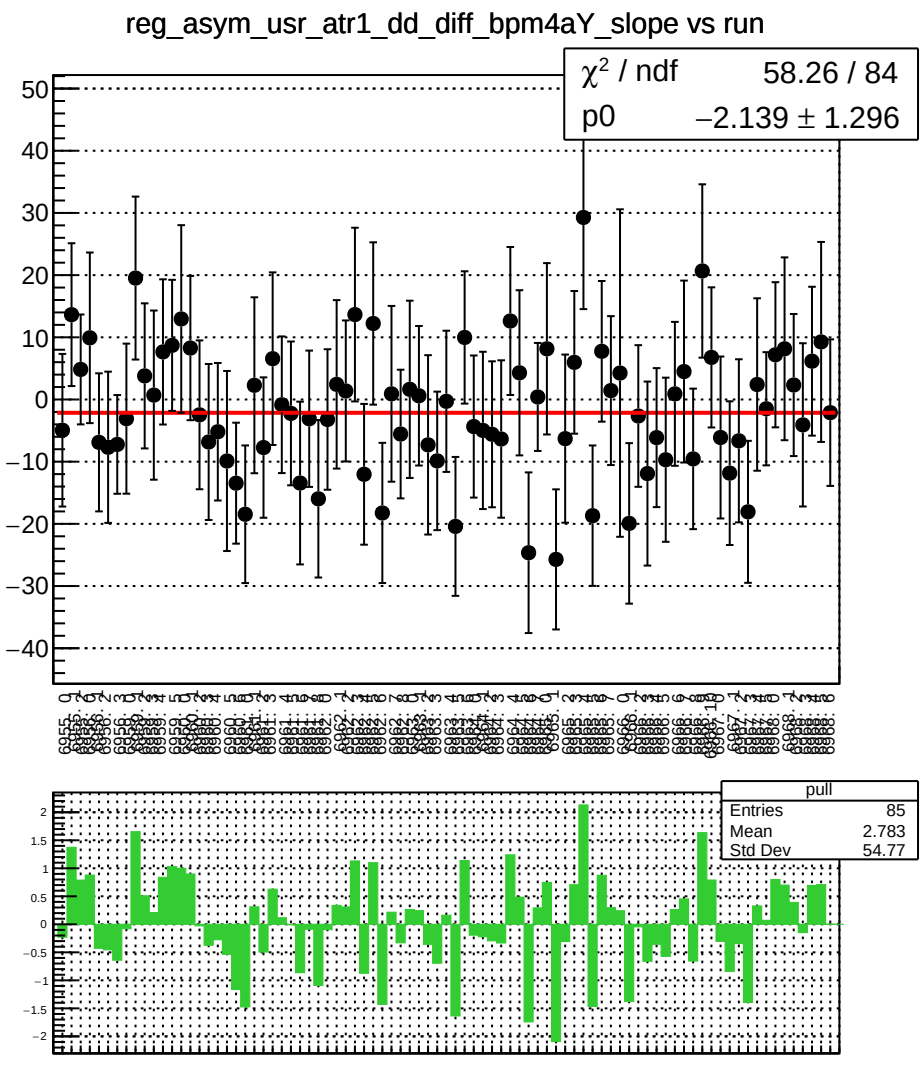

pull1D
Entries 85
Mean 0.003213
Std Dev 0.7998

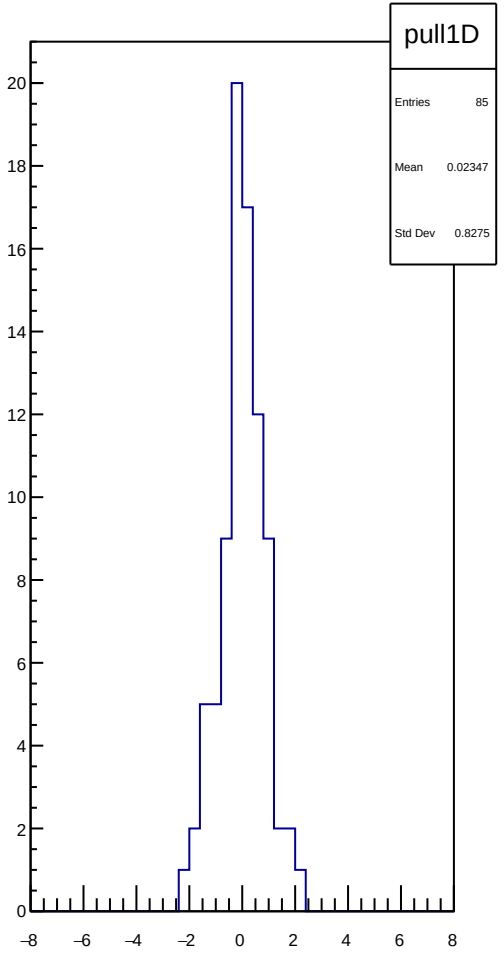

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 113.4 / 84
p0 −28.47 ± 0.07187
pull
Entries 85
Mean 142.6
Std Dev 0

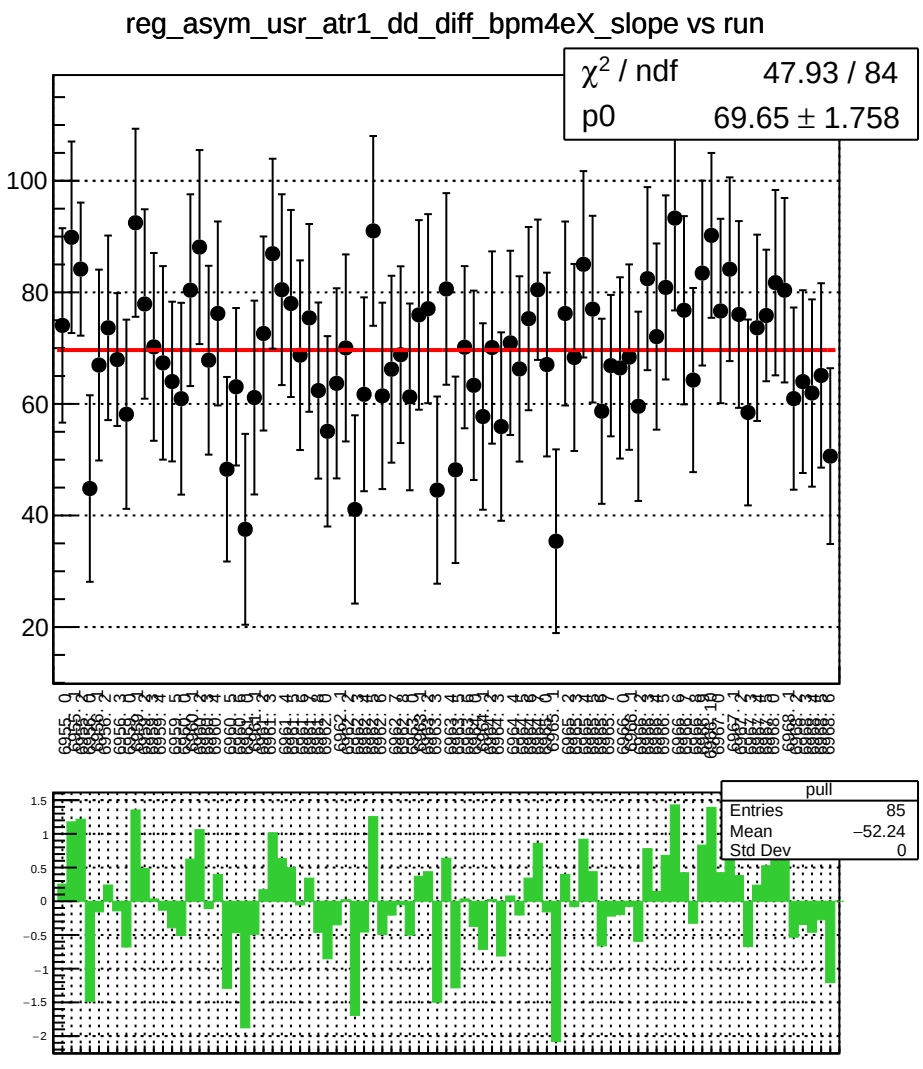

pull1D
Entries 85
Mean −0.0142
Std Dev 1.155

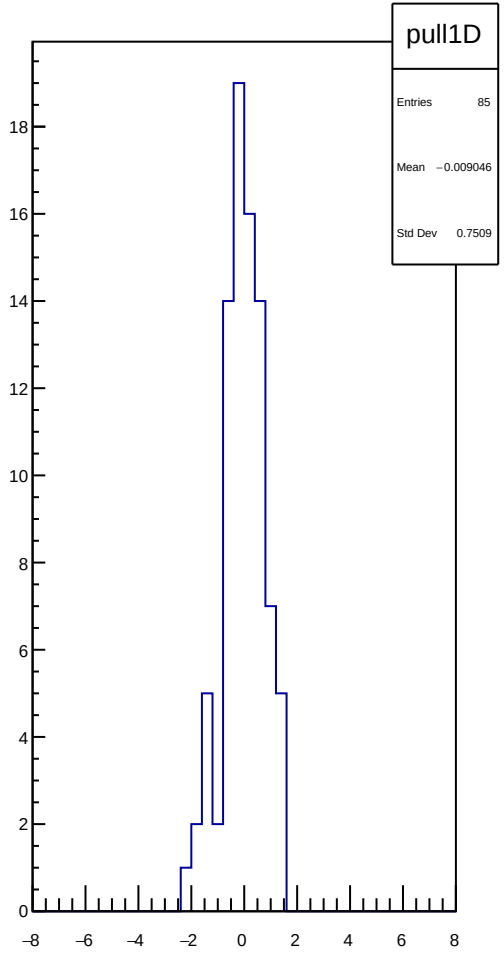

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 46.35 / 84
p0 −10.33 ± 1.904
pull
Entries 85
Mean 8.155
Std Dev 0

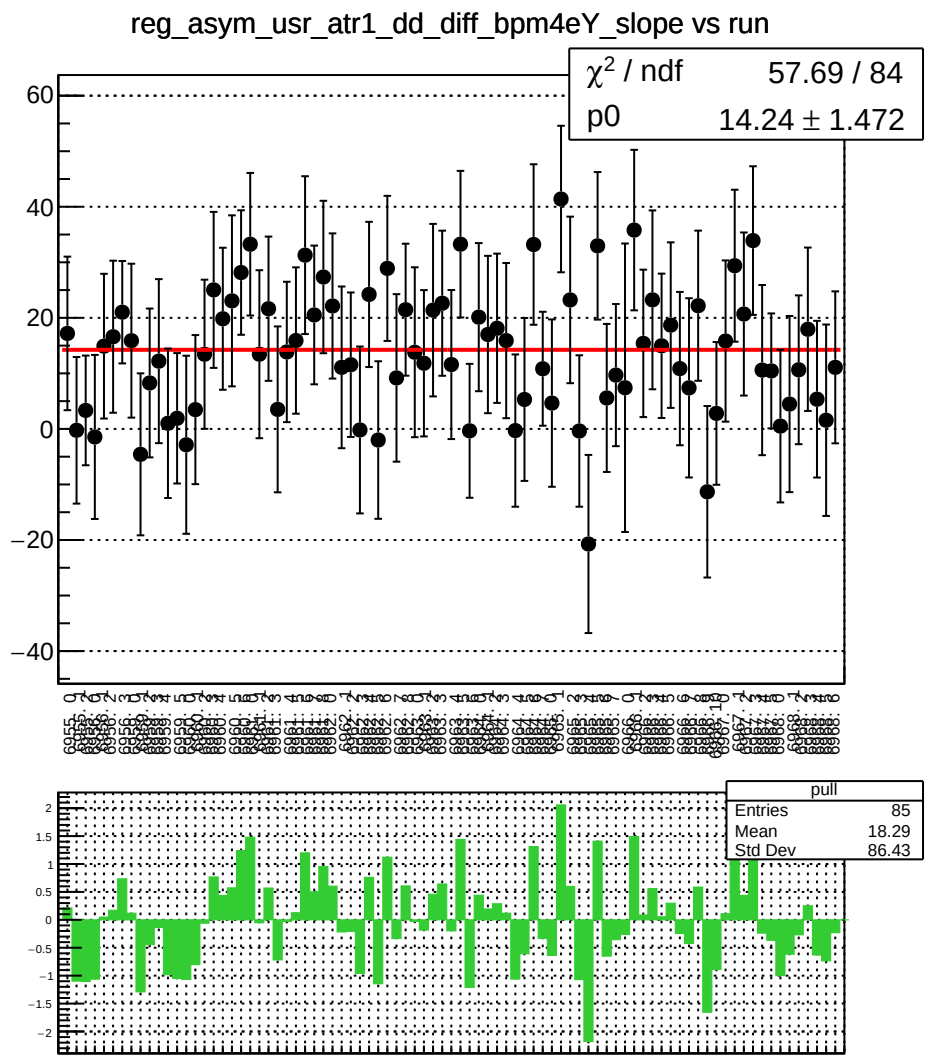

pull1D
Entries 85
Mean 0.008753
Std Dev 0.7384

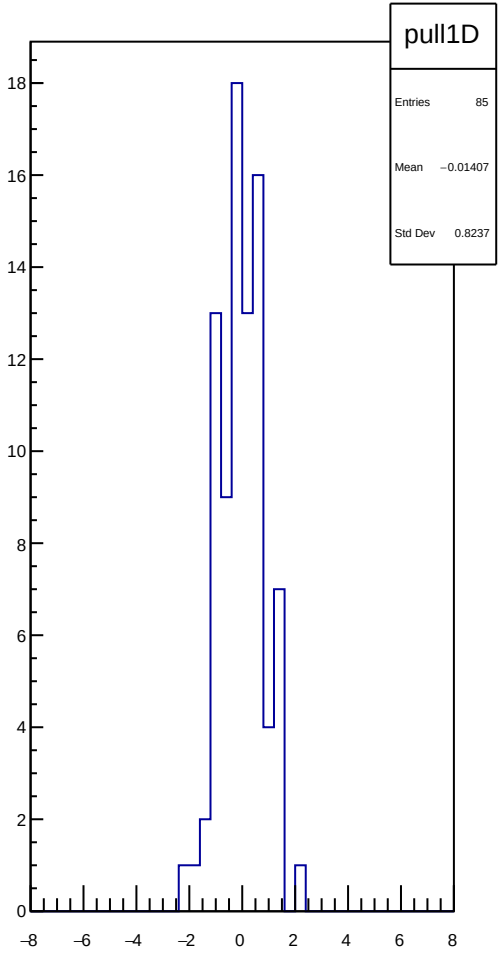

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.26 / 84
p0 −2.139 ± 1.296
pull
Entries 85
Mean 2.783
Std Dev 54.77

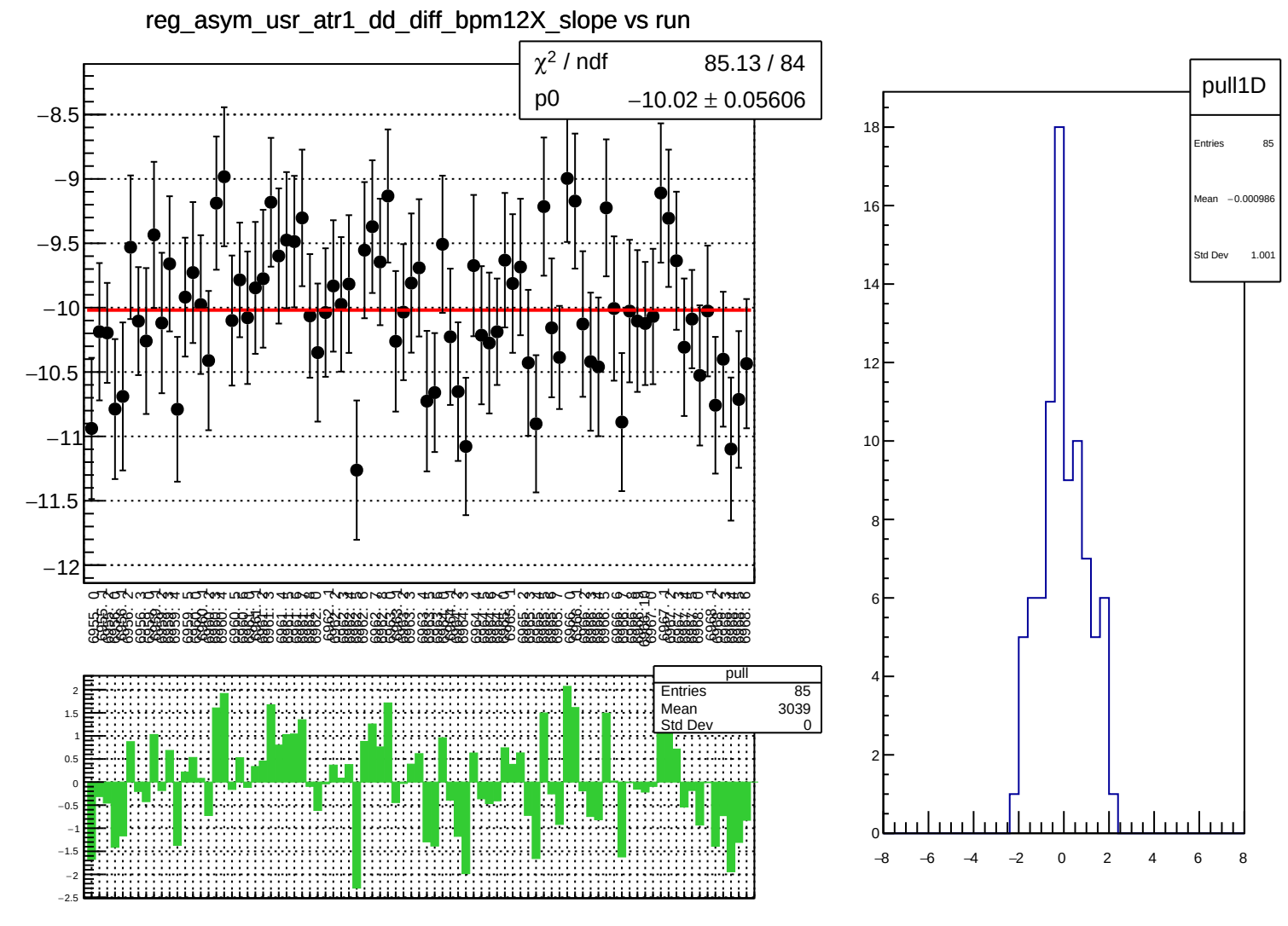

pull1D
Entries 85
Mean 0.02347
Std Dev 0.8275

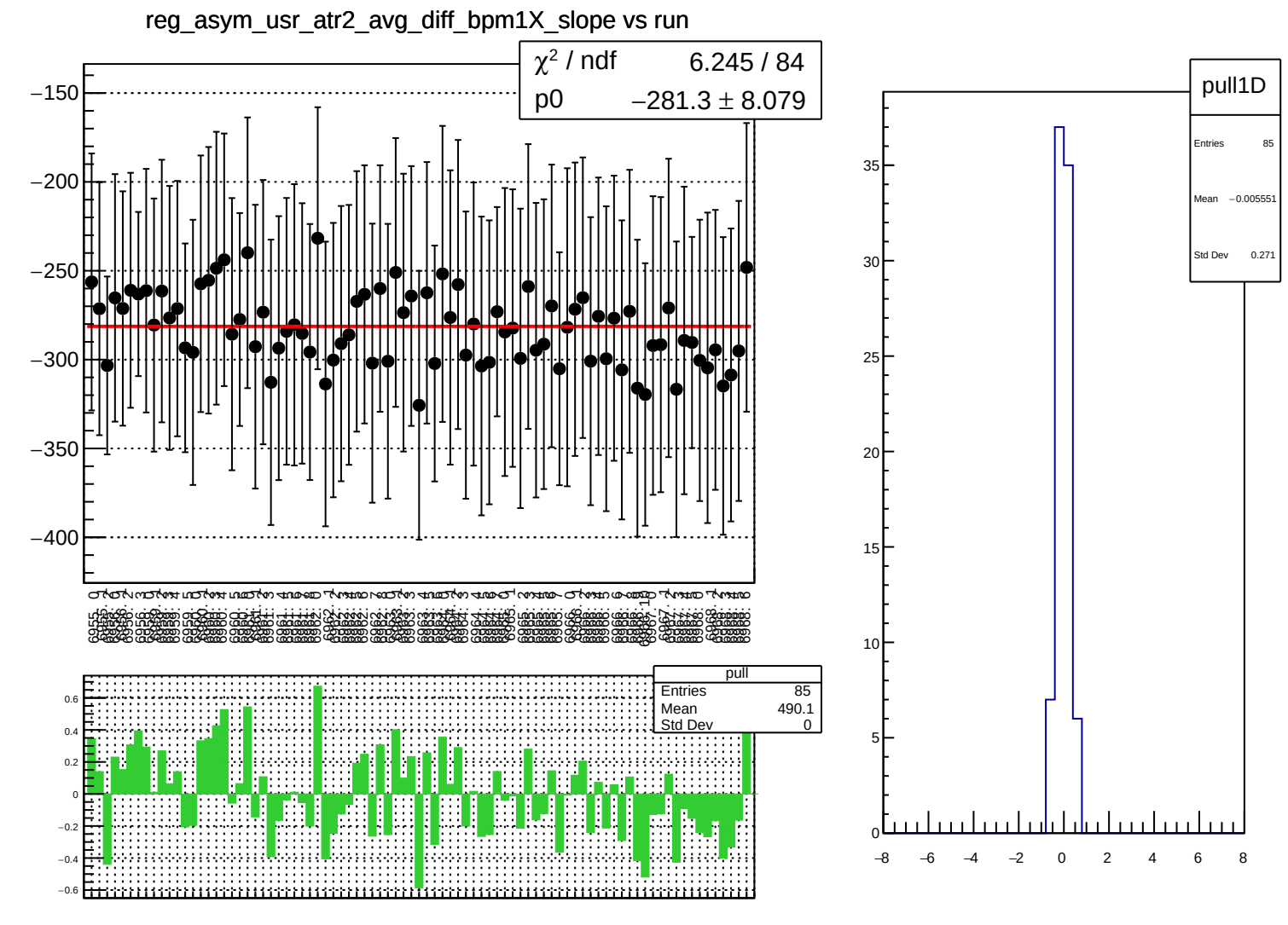

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.93 / 84
p0 69.65 ± 1.758
pull
Entries 85
Mean −52.24
Std Dev 0

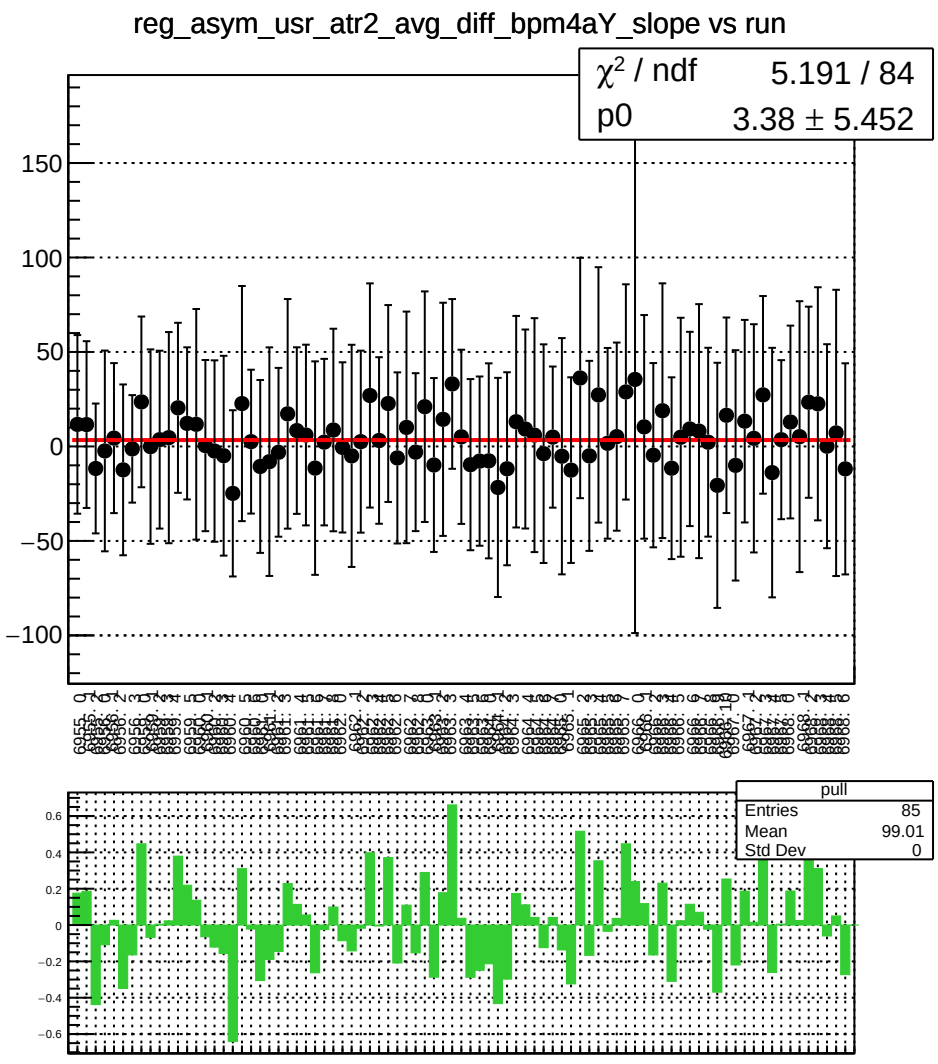

pull1D
Entries 85
Mean −0.009046
Std Dev 0.7509

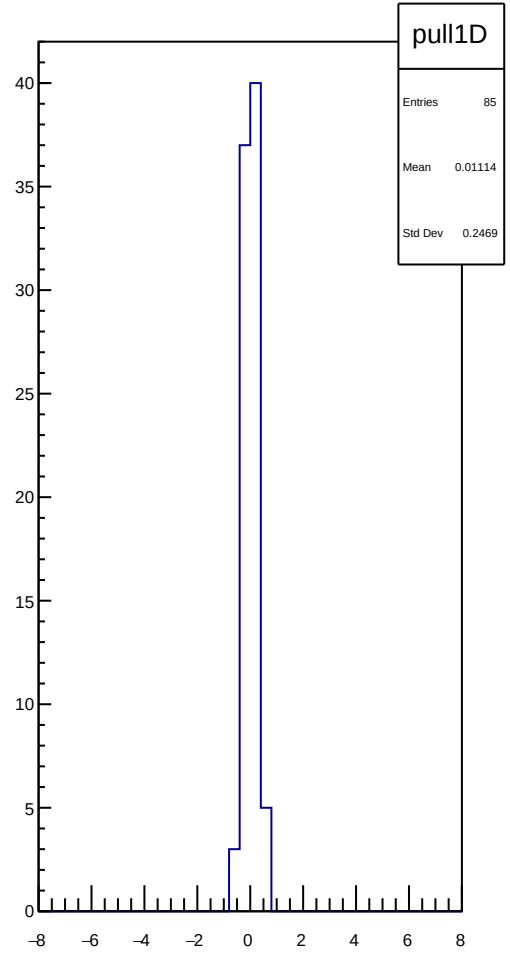

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.69 / 84
p0 14.24 ± 1.472
pull
Entries 85
Mean 18.29
Std Dev 86.43

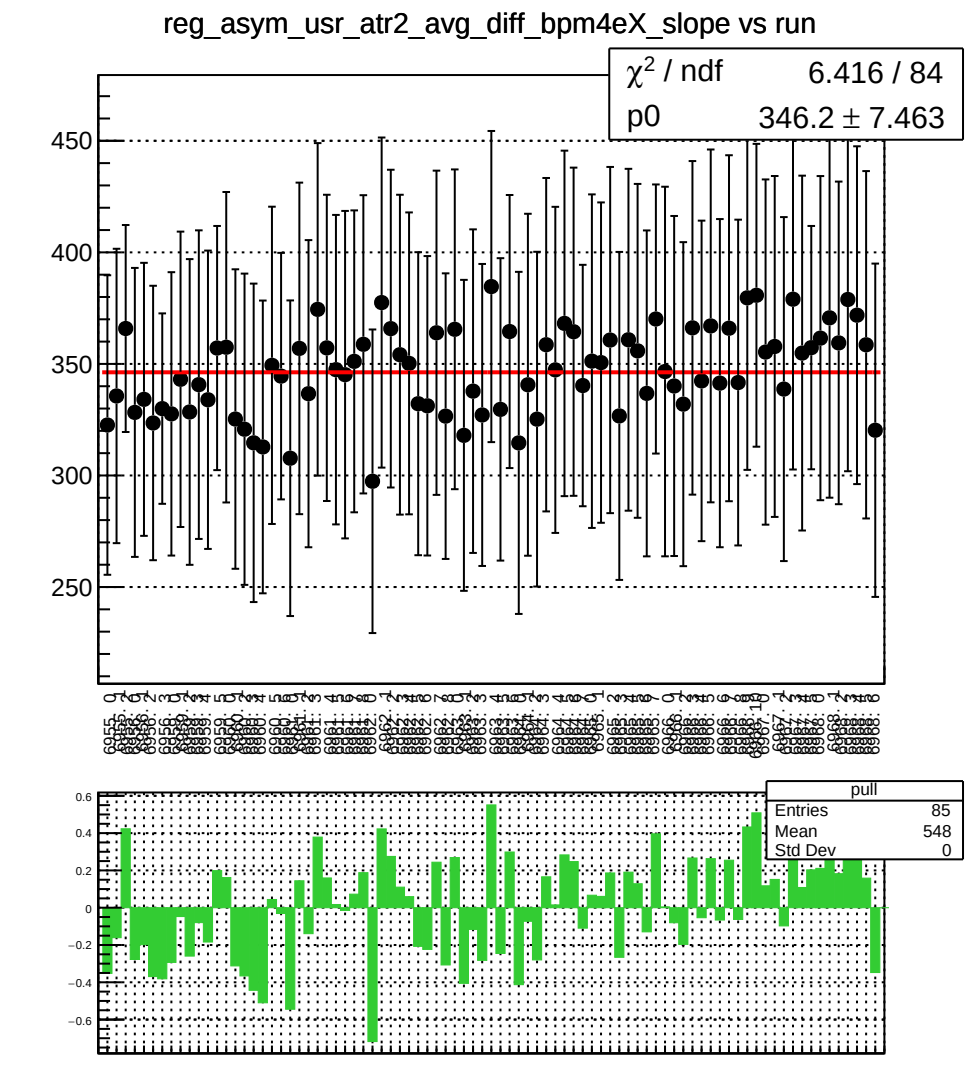

pull1D
Entries 85
Mean −0.01407
Std Dev 0.8237

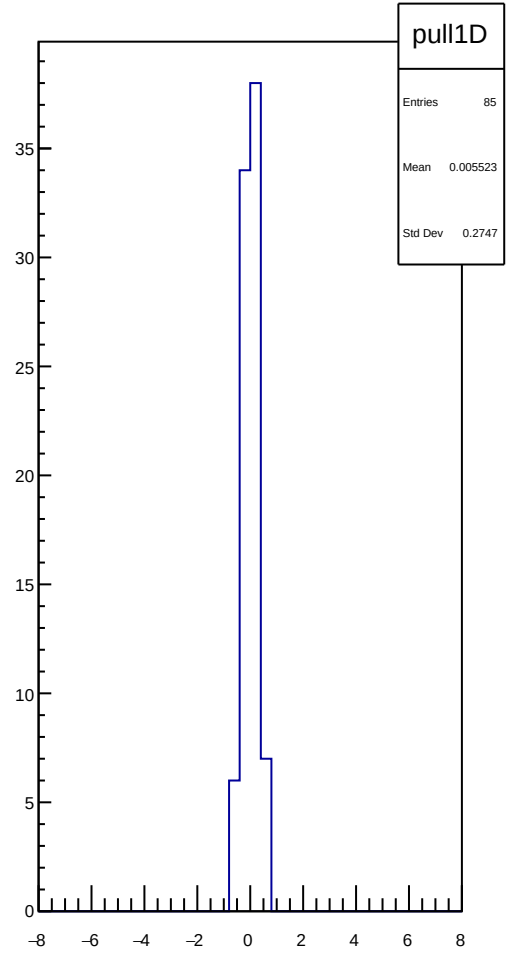

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 85.13 / 84
p0 −10.02 ± 0.05606
pull
Entries 85
Mean 3039
Std Dev 0
pull1D
Entries 85
Mean −0.000986
Std Dev 1.001

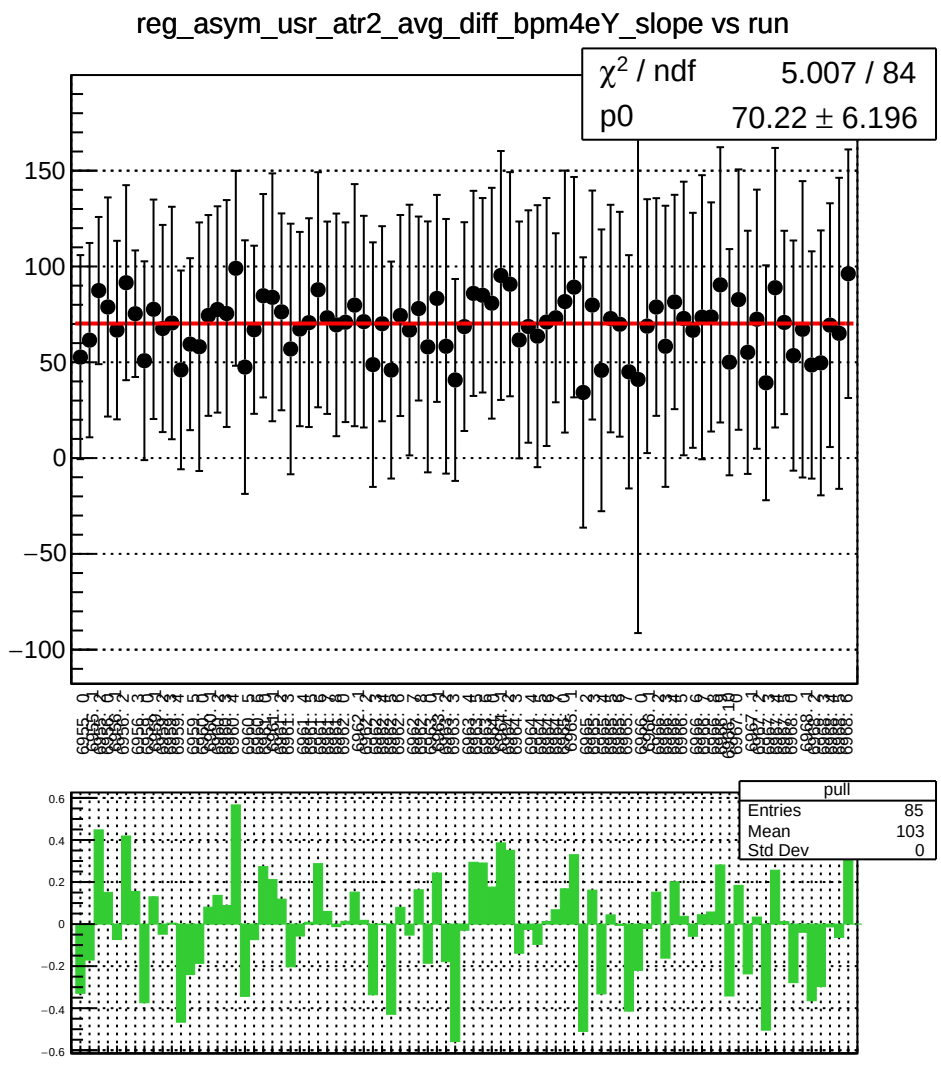

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.245 / 84
p0 −281.3 ± 8.079
−150
−200
−250
−300
−350
−400
pull
Entries 85
Mean 490.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.005551
Std Dev 0.271
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

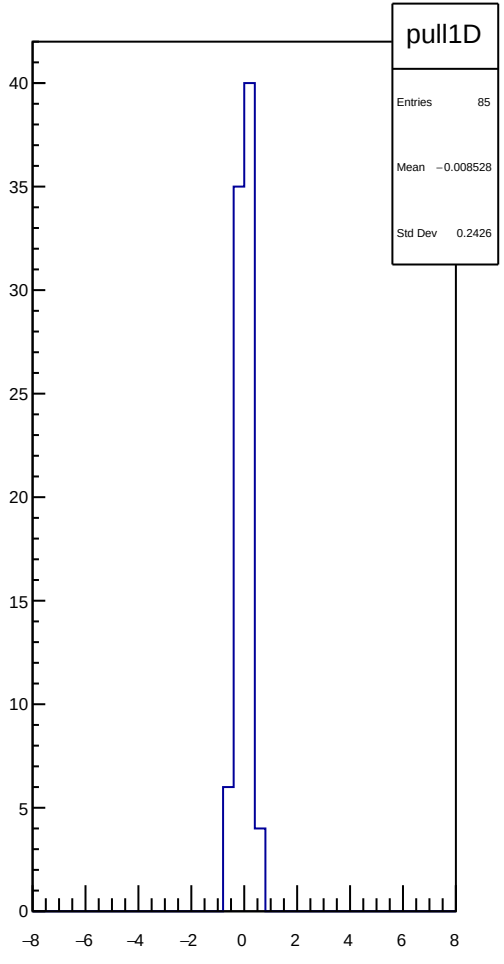

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.191 / 84
p0 3.38 ± 5.452
150
100
50
0
−50
−100
pull
Entries 85
Mean 99.01
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

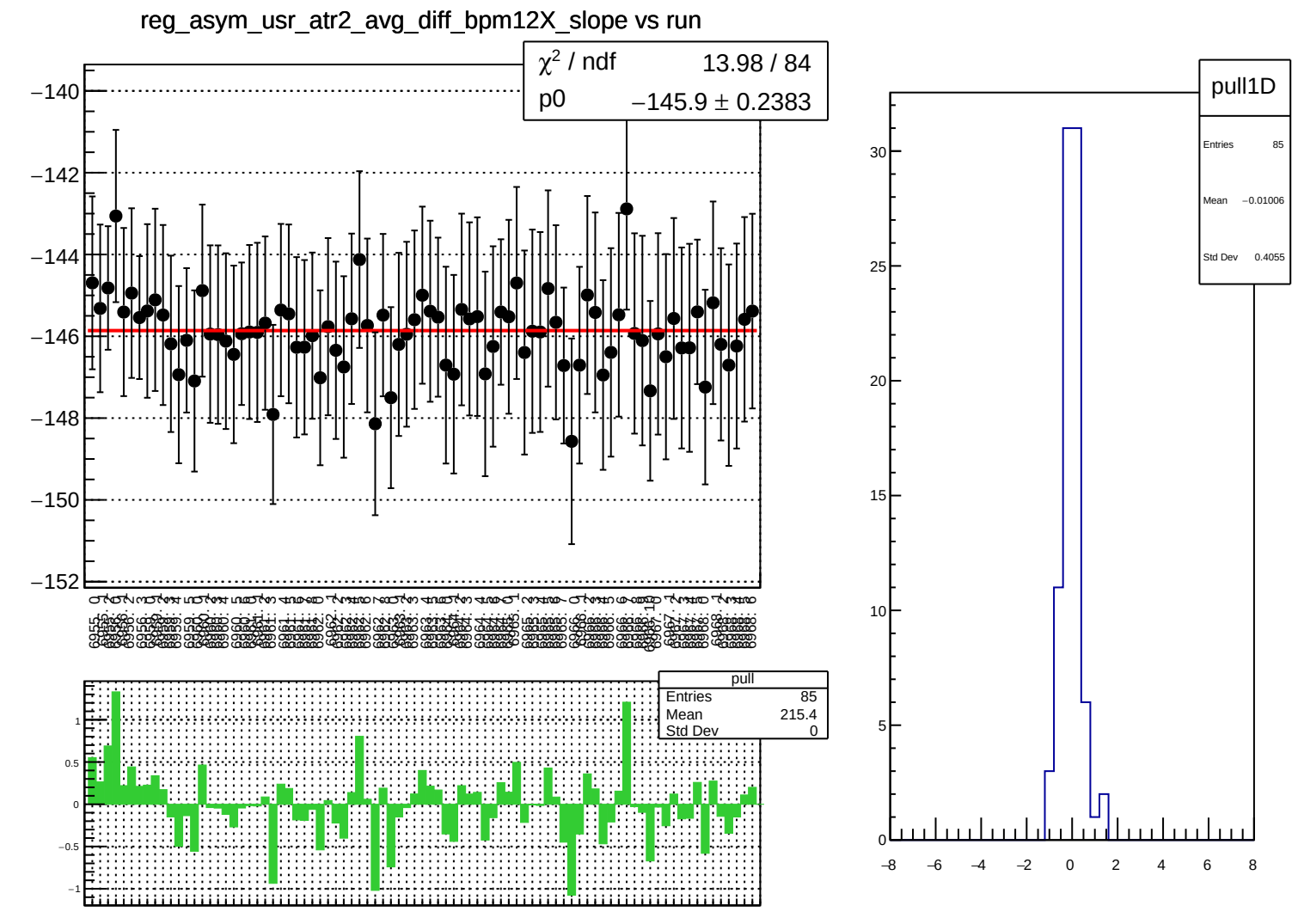

pull1D
Entries 85
Mean 0.01114
Std Dev 0.2469
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

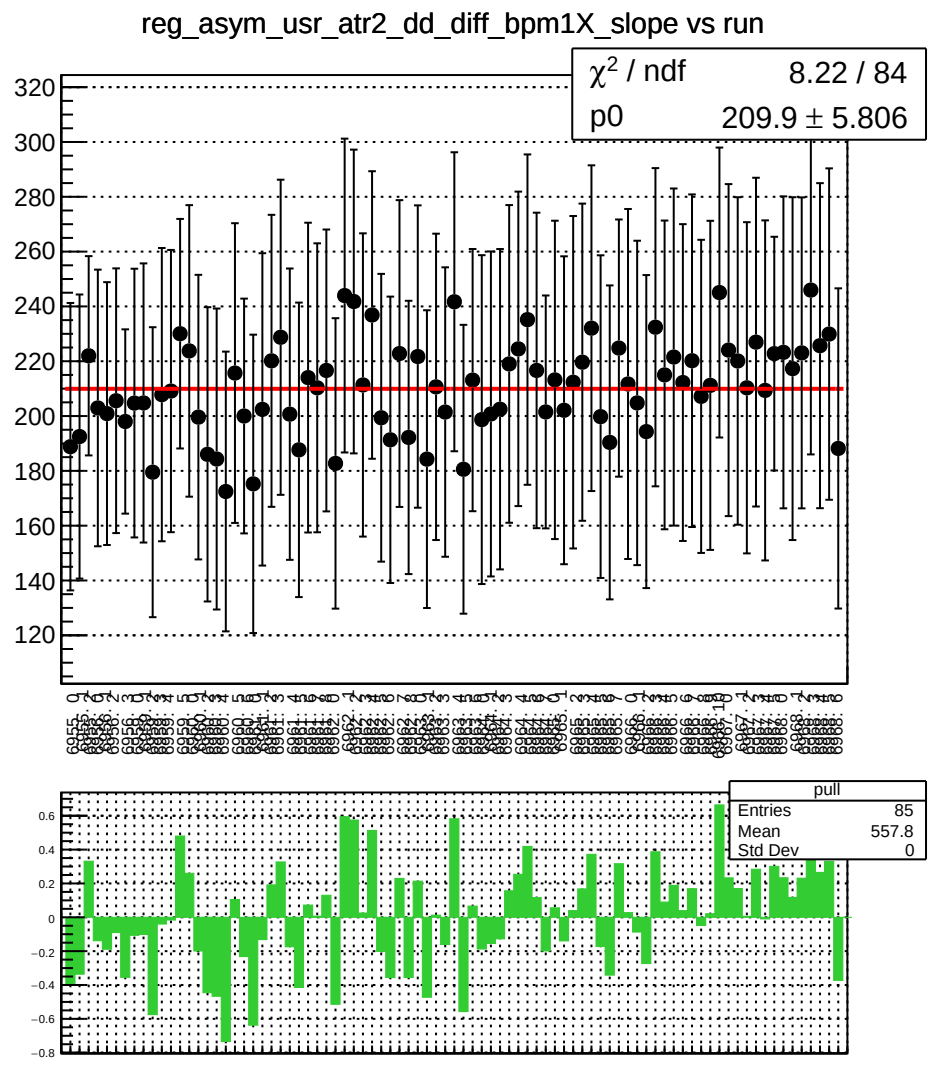

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.416 / 84
p0 346.2 ± 7.463
450
400
350
300
250
pull
Entries 85
Mean 548
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

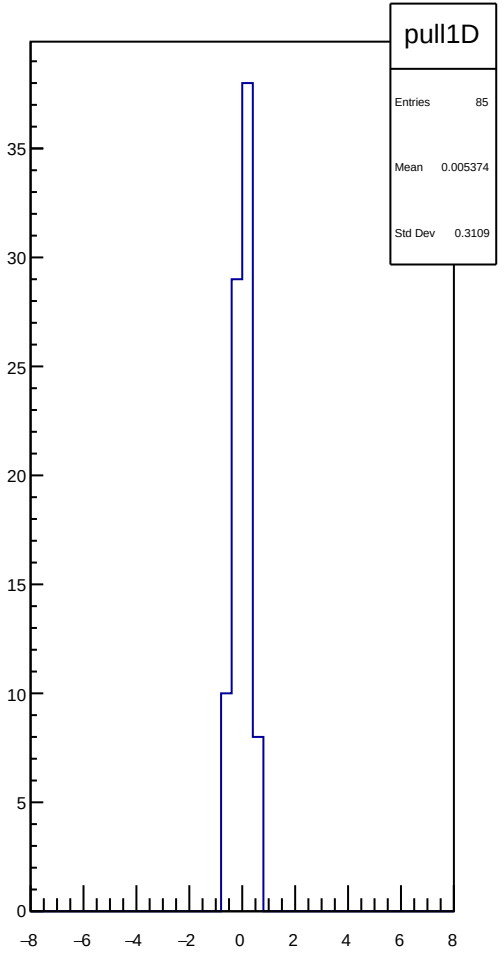

pull1D
Entries 85
Mean 0.005523
Std Dev 0.2747
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

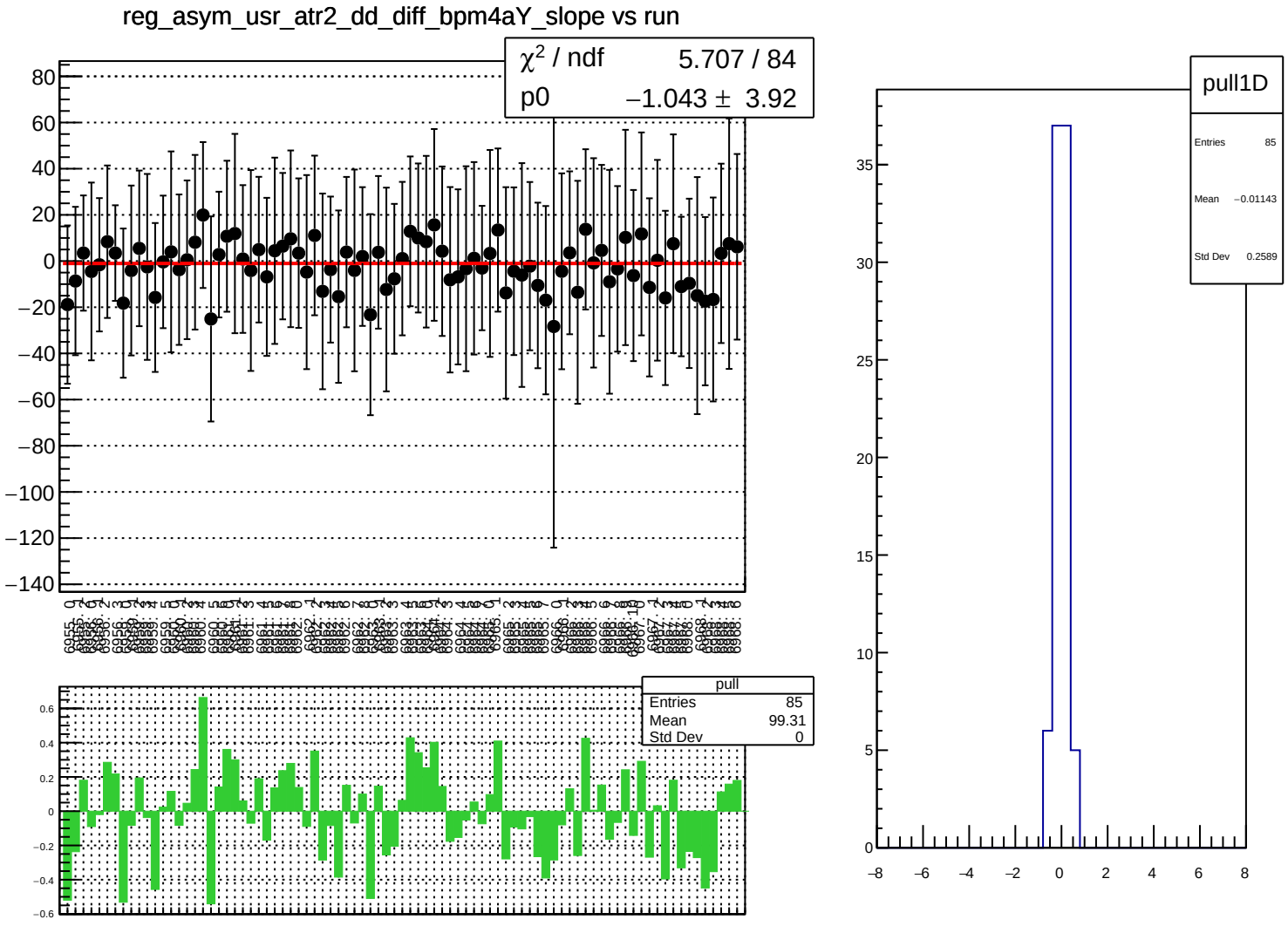

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.007 / 84
p0 70.22 ± 6.196
150
100
50
0
−50
−100
pull
Entries 85
Mean 103
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

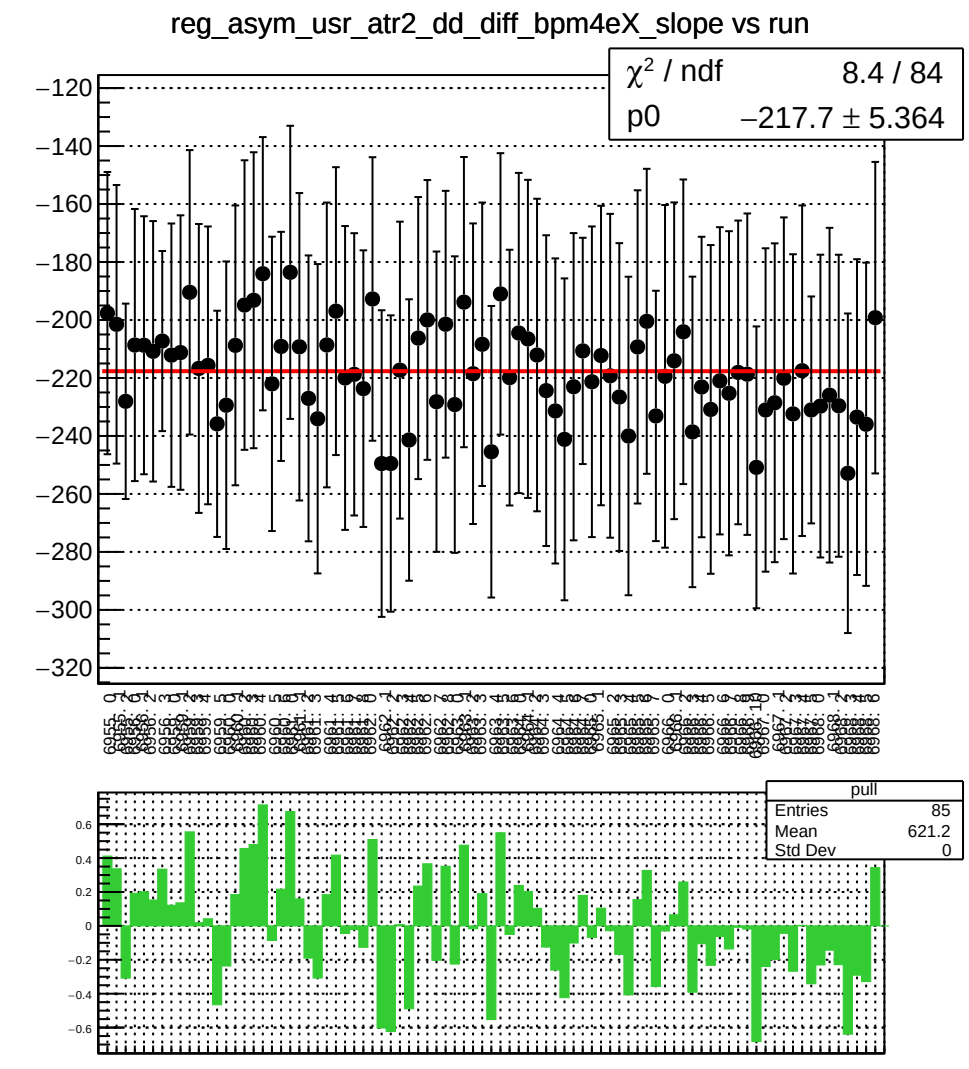

pull1D
Entries 85
Mean −0.008528
Std Dev 0.2426
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

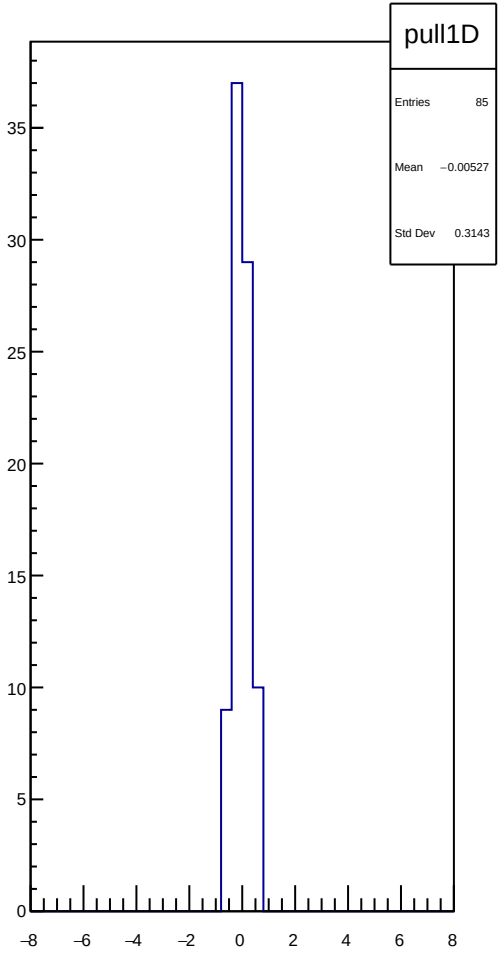

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 13.98 / 84
p0 −145.9 ± 0.2383
−140
−142
−144
−146
−148
−150
−152
pull
Entries 85
Mean 215.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.01006
Std Dev 0.4055
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

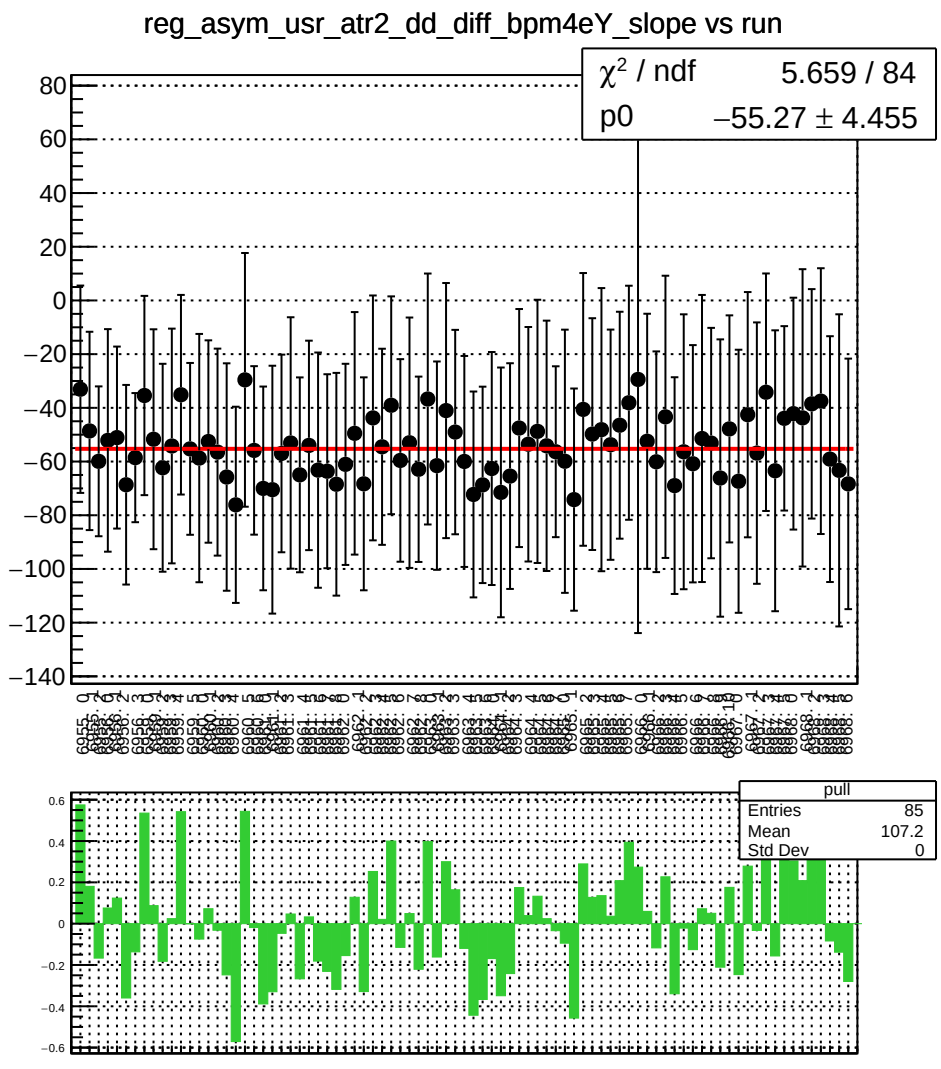

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.22 / 84
p0 209.9 ± 5.806
pull
Entries 85
Mean 557.8
Std Dev 0

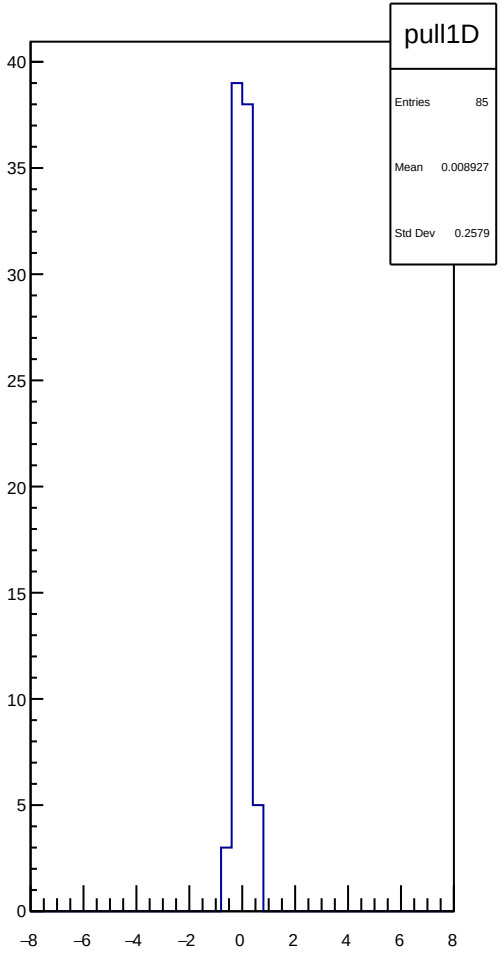

pull1D
Entries 85
Mean 0.005374
Std Dev 0.3109

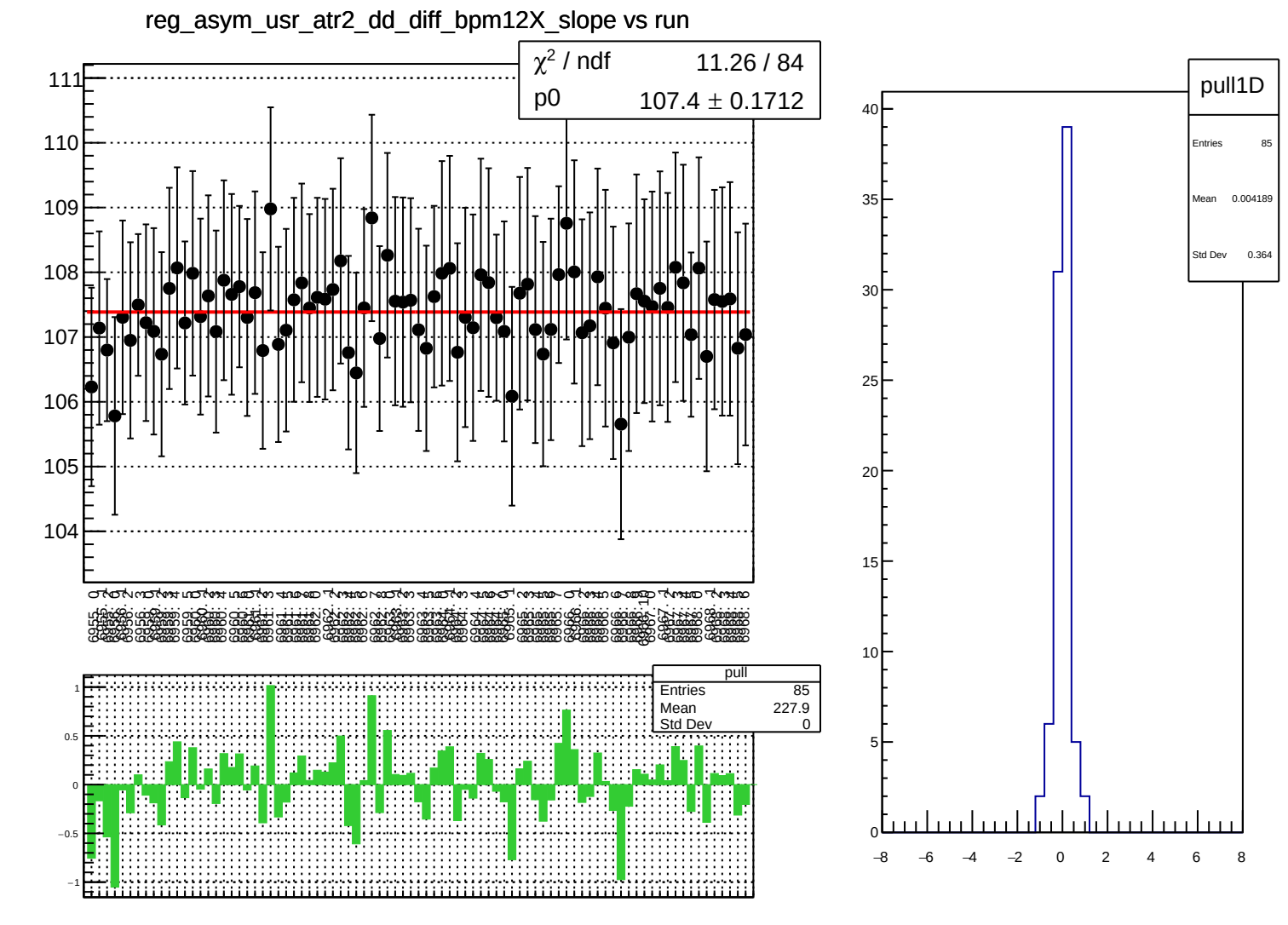

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.707 / 84
p0 −1.043 ± 3.92
pull
Entries 85
Mean 99.31
Std Dev 0
pull1D
Entries 85
Mean −0.01143
Std Dev 0.2589

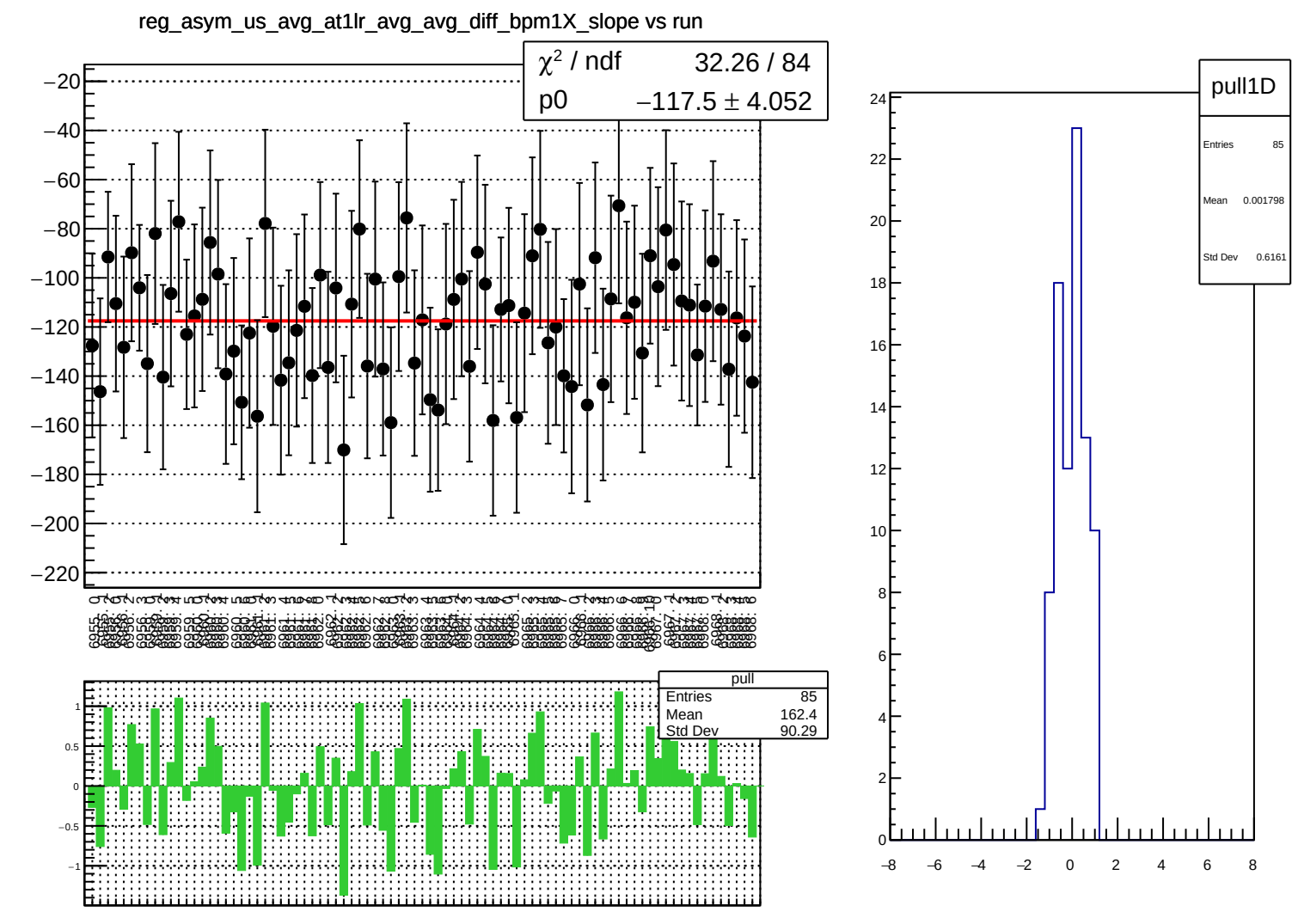

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.4 / 84
p0 −217.7 ± 5.364
pull
Entries 85
Mean 621.2
Std Dev 0

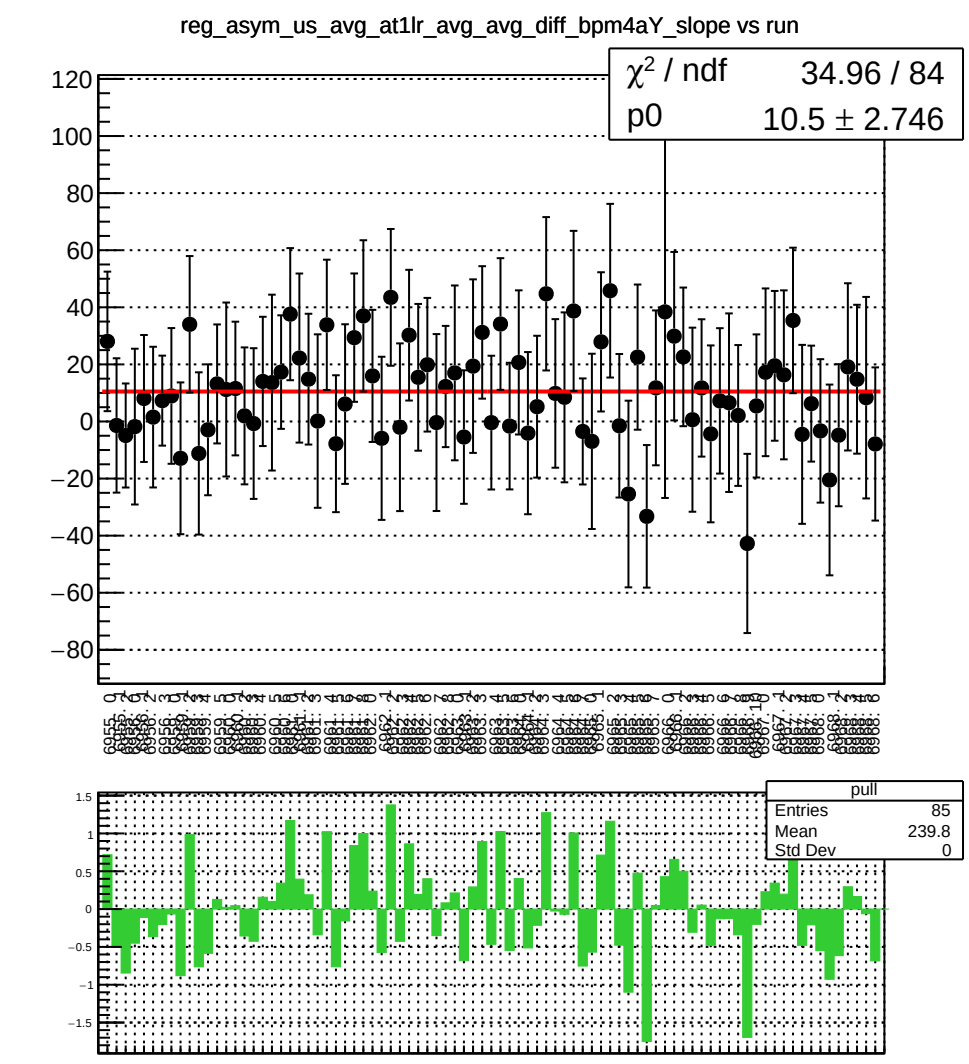

pull1D
Entries 85
Mean −0.00527
Std Dev 0.3143

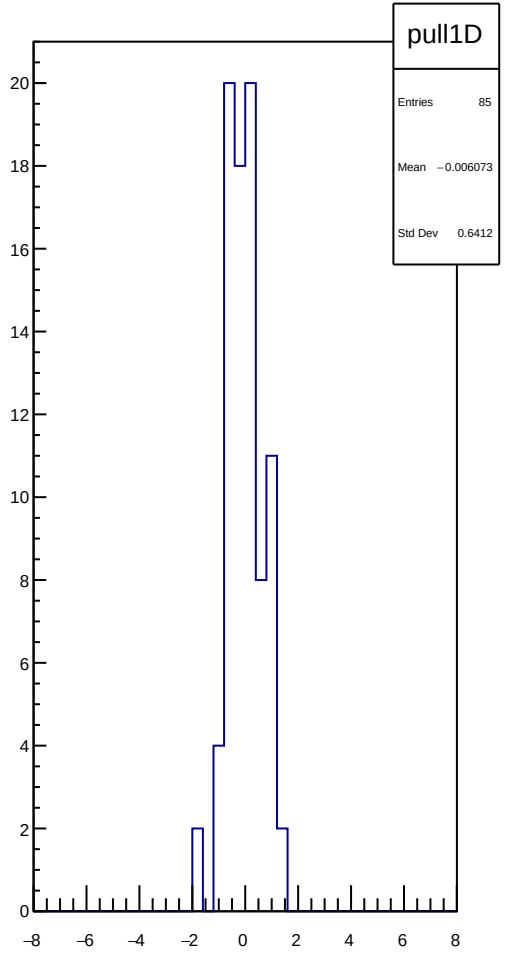

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.659 / 84
p0 −55.27 ± 4.455
pull
Entries 85
Mean 107.2
Std Dev 0

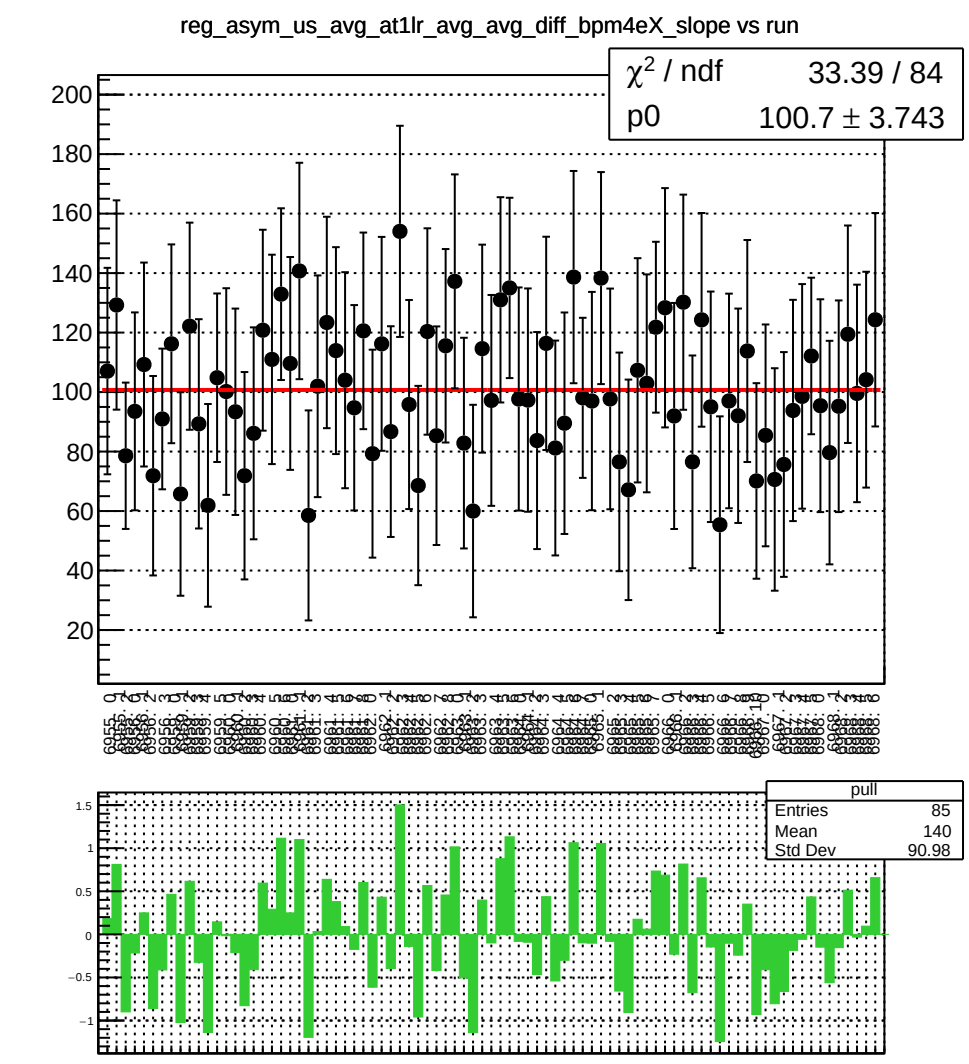

pull1D
Entries 85
Mean 0.008927
Std Dev 0.2579

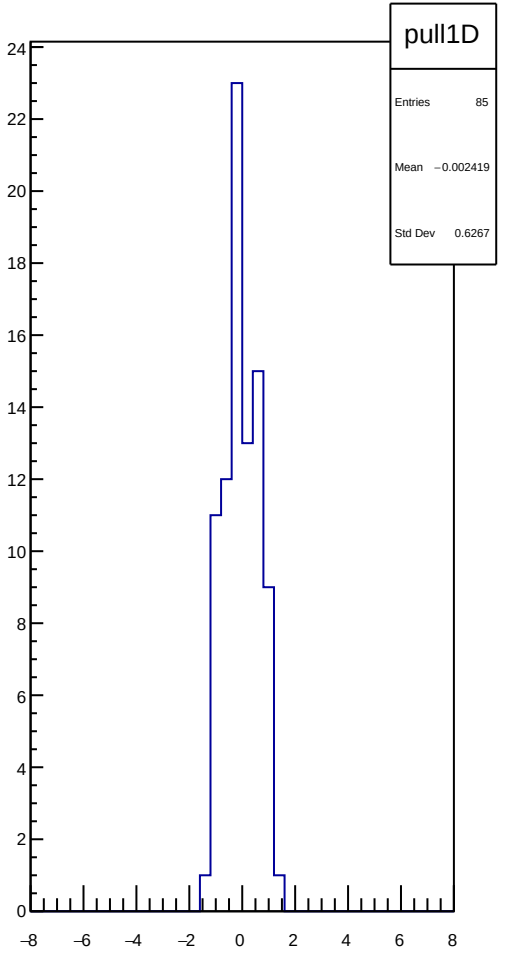

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 11.26 / 84
p0 107.4 ± 0.1712
pull
Entries 85
Mean 227.9
Std Dev 0
pull1D
Entries 85
Mean 0.004189
Std Dev 0.364

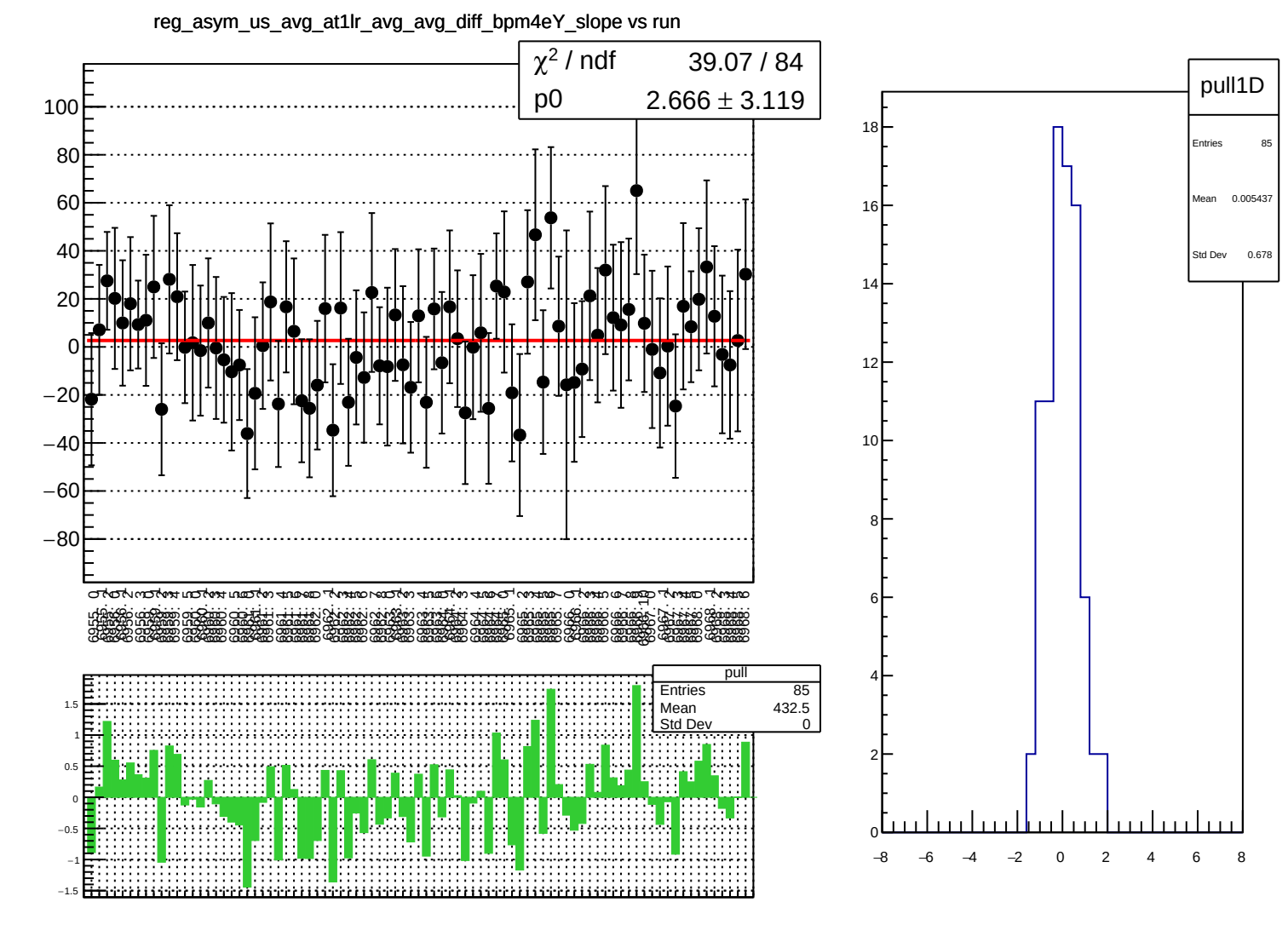

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 32.26 / 84
p0 −117.5 ± 4.052
pull
Entries 85
Mean 162.4
Std Dev 90.29
pull1D
Entries 85
Mean 0.001798
Std Dev 0.6161

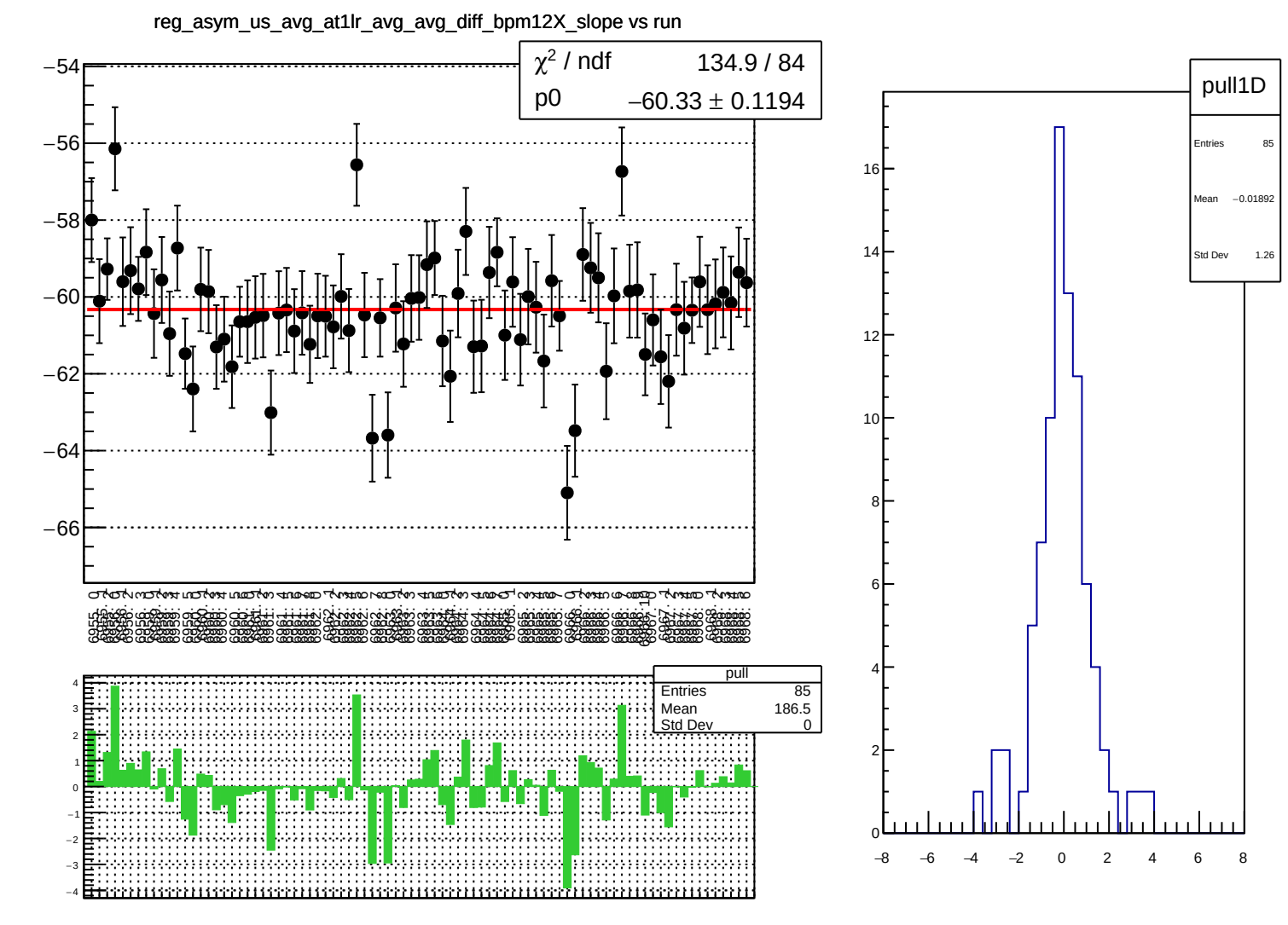

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.96 / 84
p0 10.5 ± 2.746
pull
Entries 85
Mean 239.8
Std Dev 0

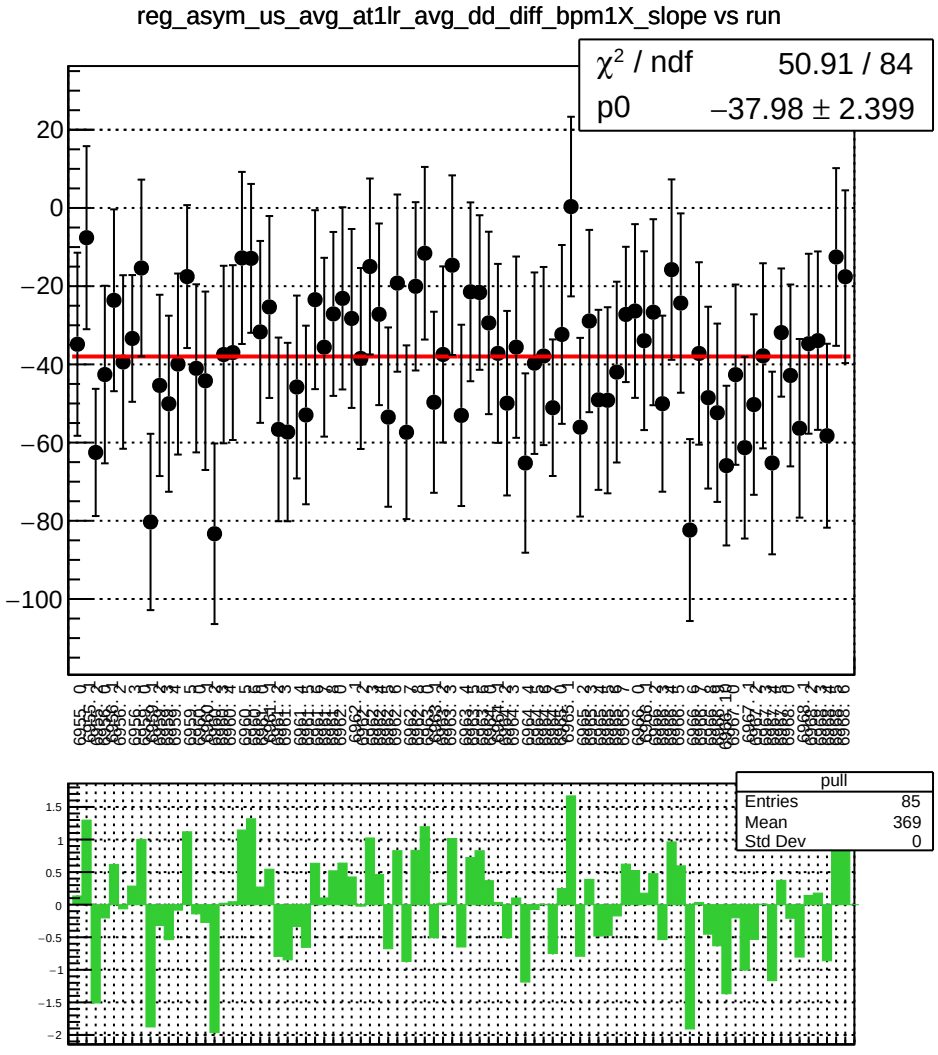

pull1D
Entries 85
Mean −0.006073
Std Dev 0.6412

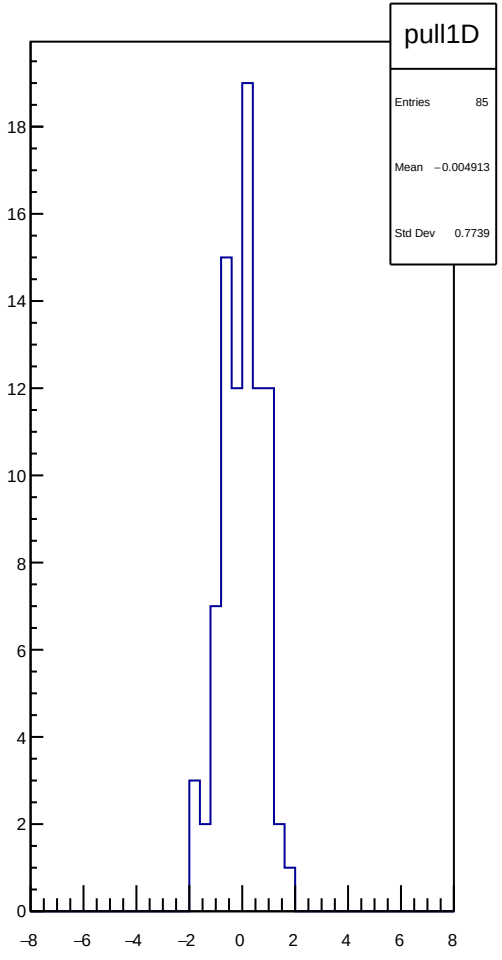

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.39 / 84
p0 100.7 ± 3.743
pull
Entries 85
Mean 140
Std Dev 90.98

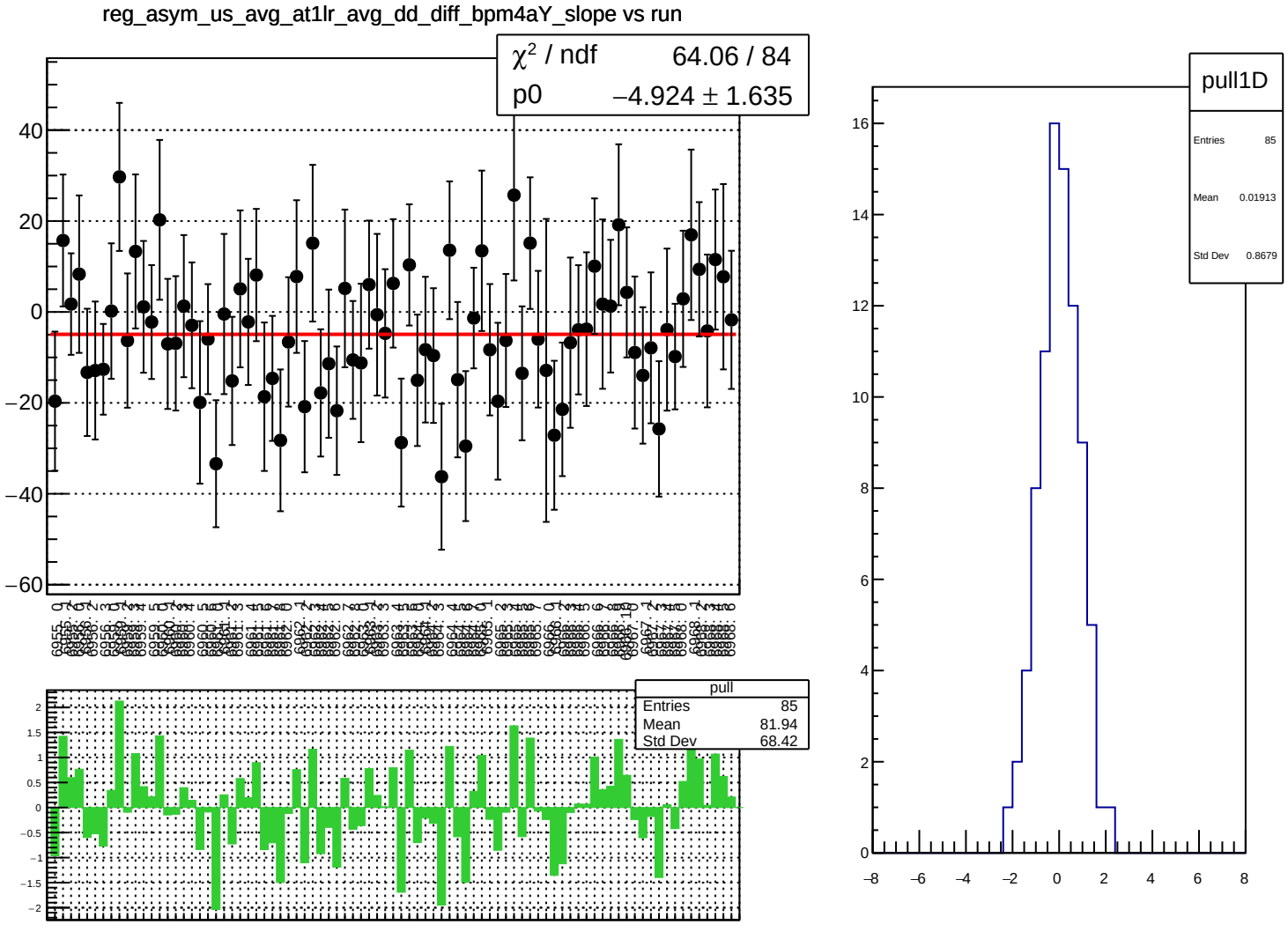

pull1D
Entries 85
Mean −0.002419
Std Dev 0.6267

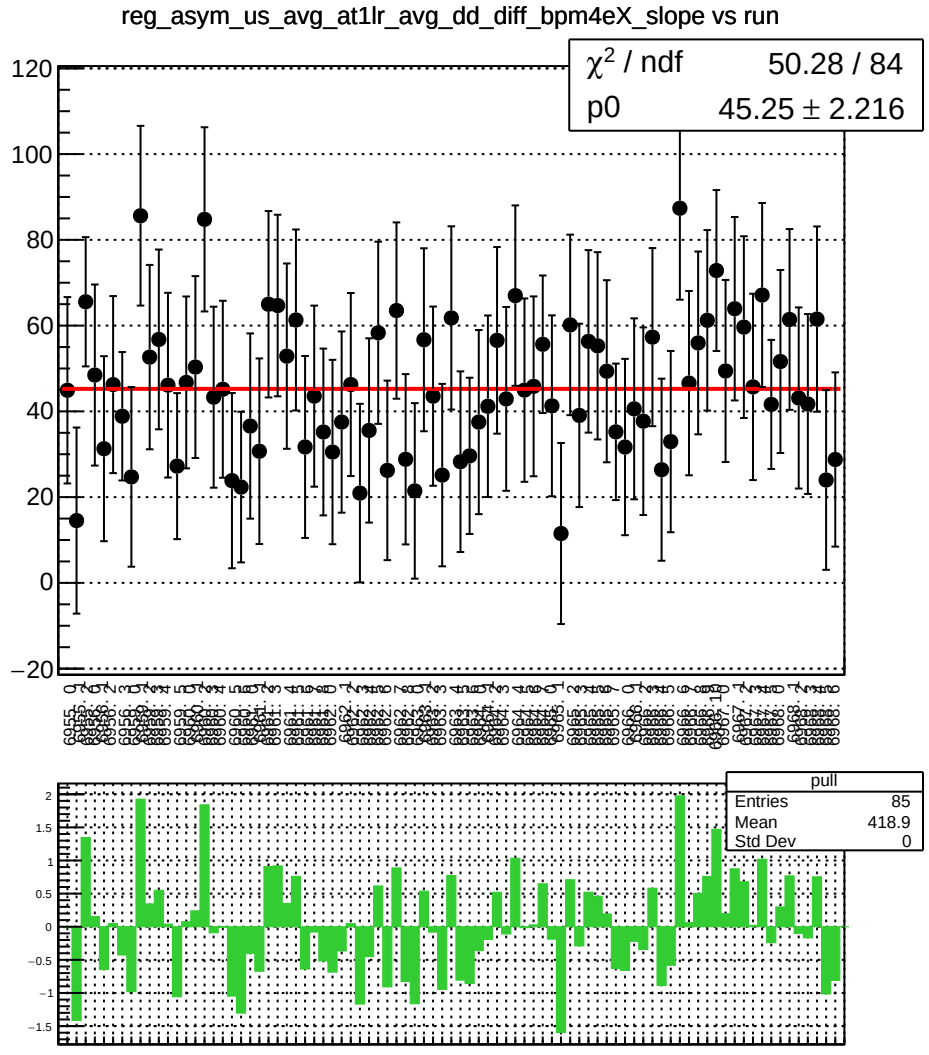

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.07 / 84
p0 2.666 ± 3.119
pull
Entries 85
Mean 432.5
Std Dev 0
pull1D
Entries 85
Mean 0.005437
Std Dev 0.678

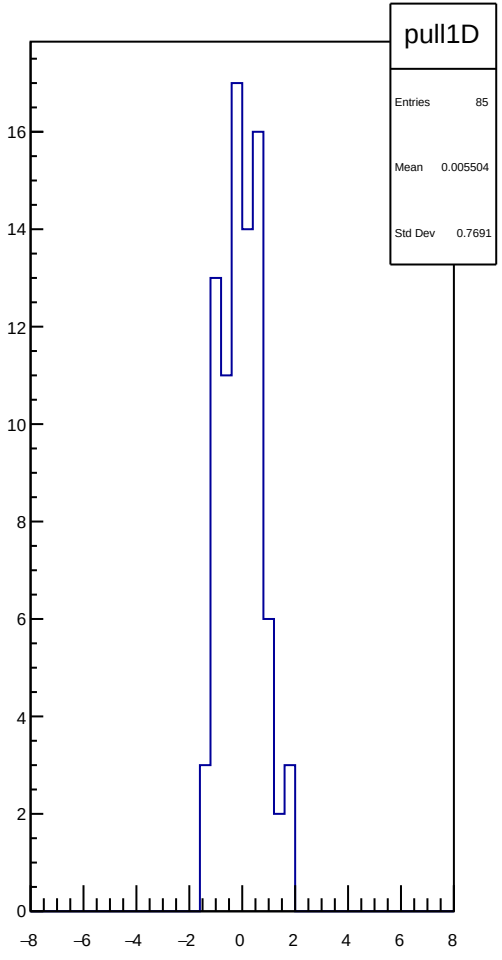

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 134.9 / 84
p0 −60.33 ± 0.1194
pull
Entries 85
Mean 186.5
Std Dev 0
pull1D
Entries 85
Mean −0.01892
Std Dev 1.26

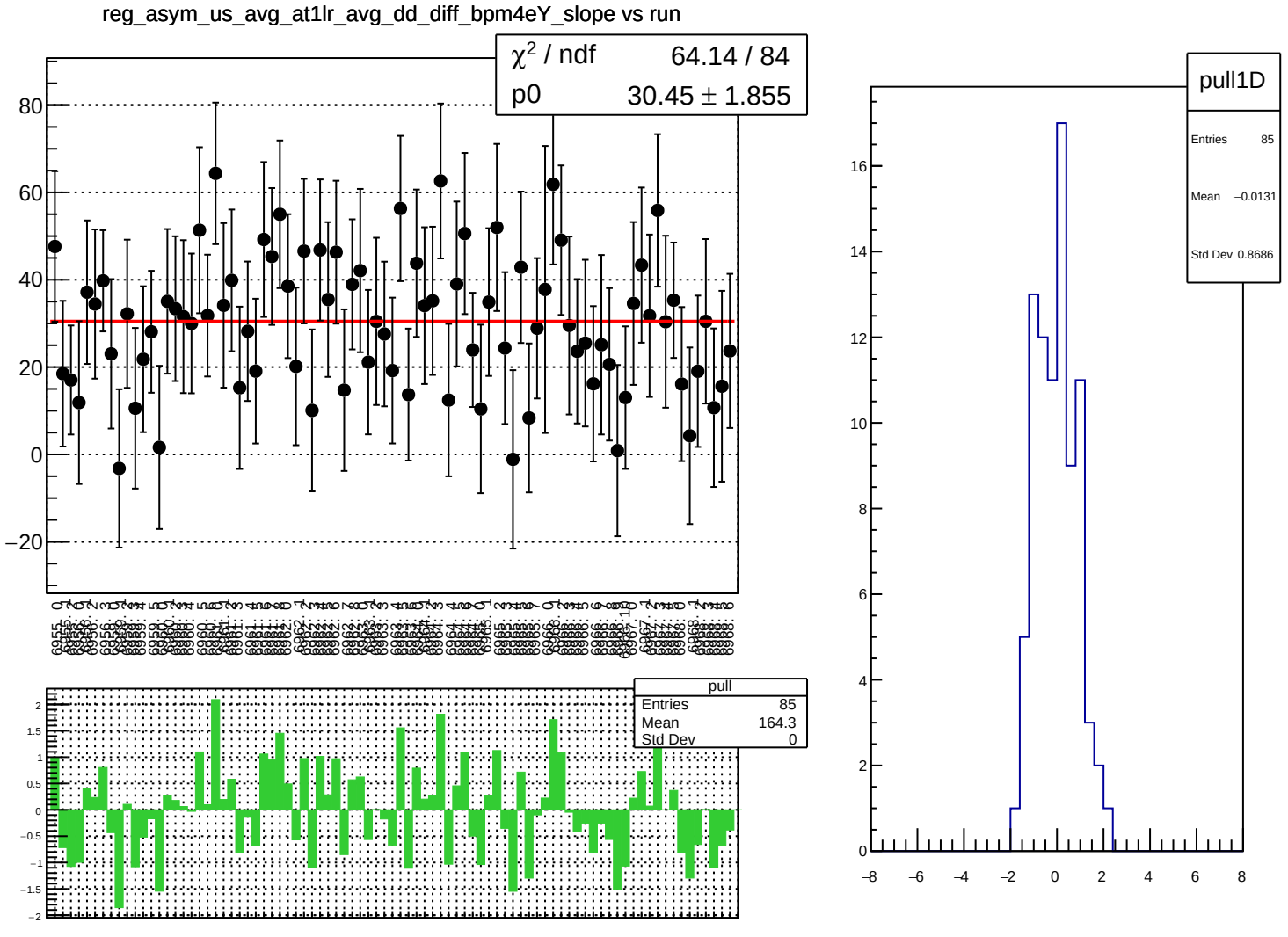

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 50.91 / 84
p0 −37.98 ± 2.399
pull
Entries 85
Mean 369
Std Dev 0

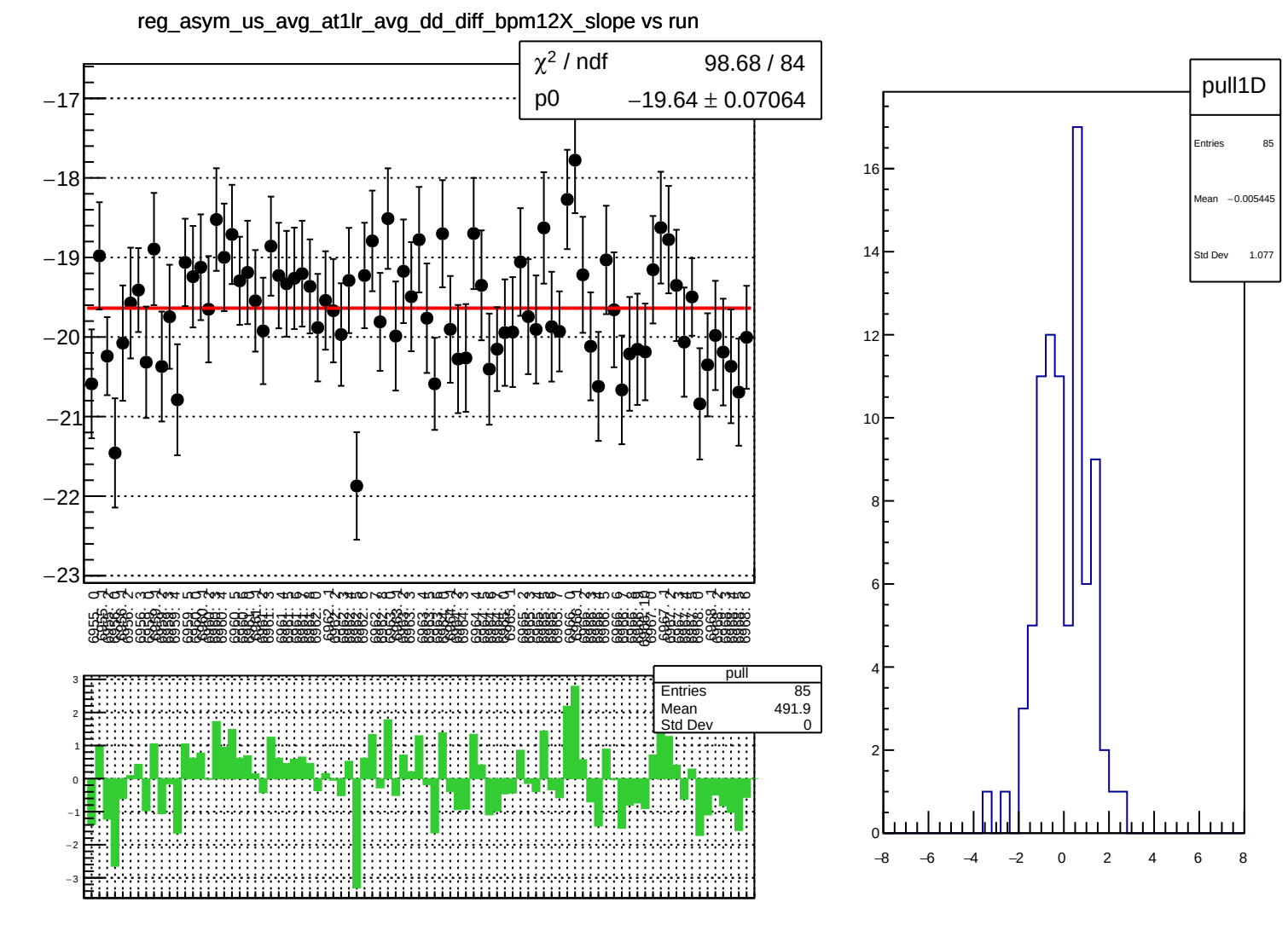

pull1D
Entries 85
Mean −0.004913
Std Dev 0.7739

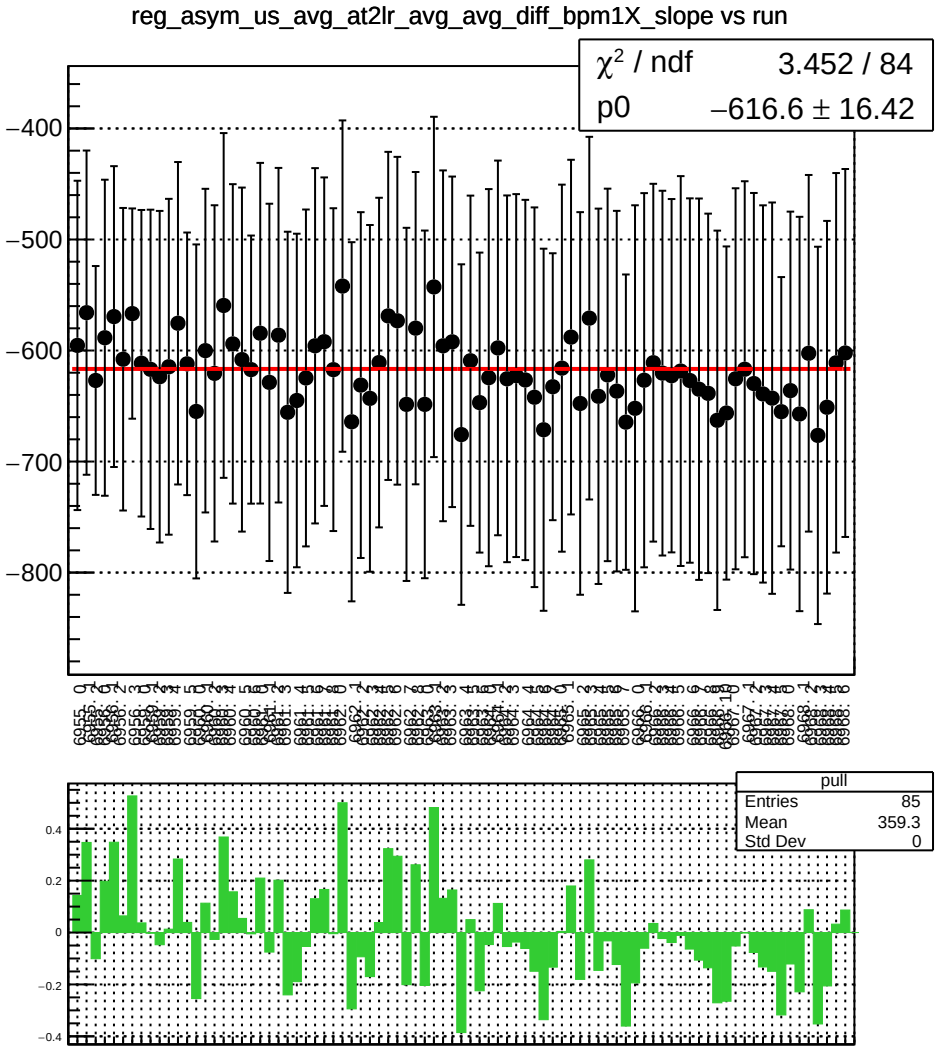

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.06 / 84
p0 −4.924 ± 1.635
pull
Entries 85
Mean 81.94
Std Dev 68.42
pull1D
Entries 85
Mean 0.01913
Std Dev 0.8679

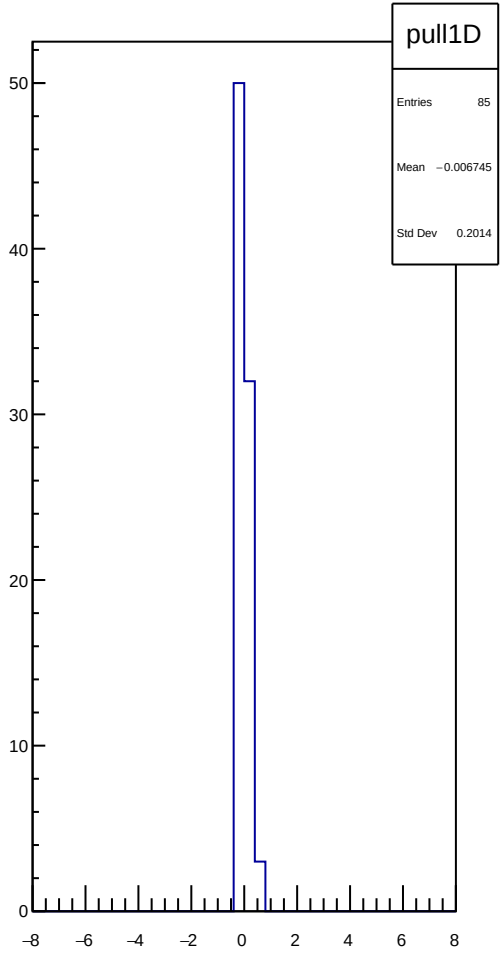

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 50.28 / 84
p0 45.25 ± 2.216
pull
Entries 85
Mean 418.9
Std Dev 0

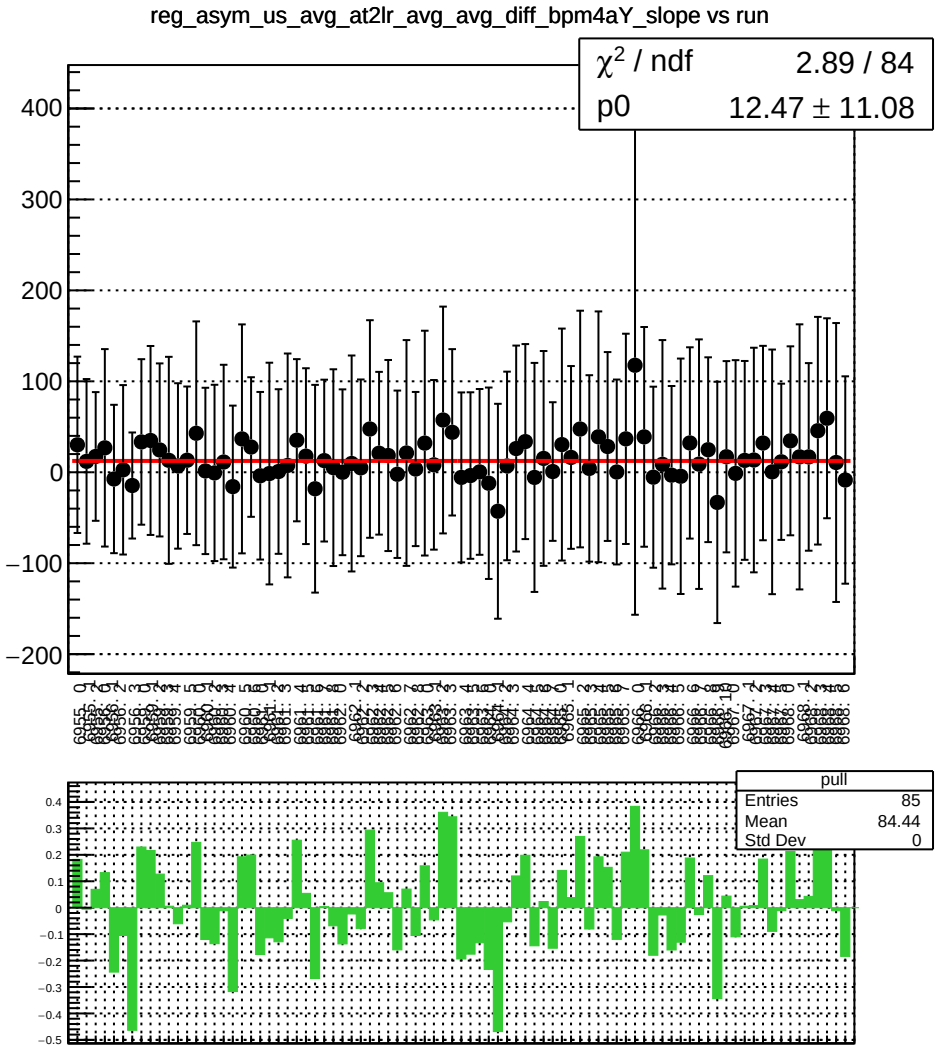

pull1D
Entries 85
Mean 0.005504
Std Dev 0.7691

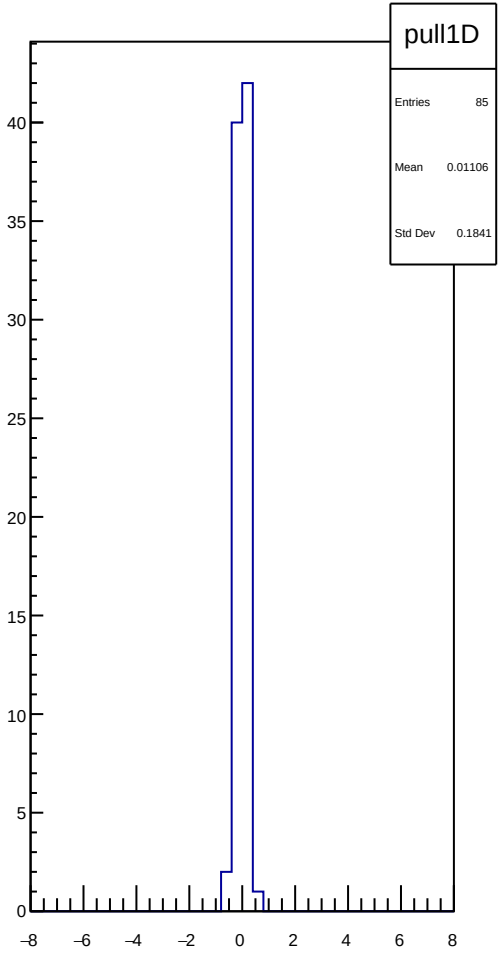

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.14 / 84
p0 30.45 ± 1.855
pull
Entries 85
Mean 164.3
Std Dev 0
pull1D
Entries 85
Mean −0.0131
Std Dev 0.8686

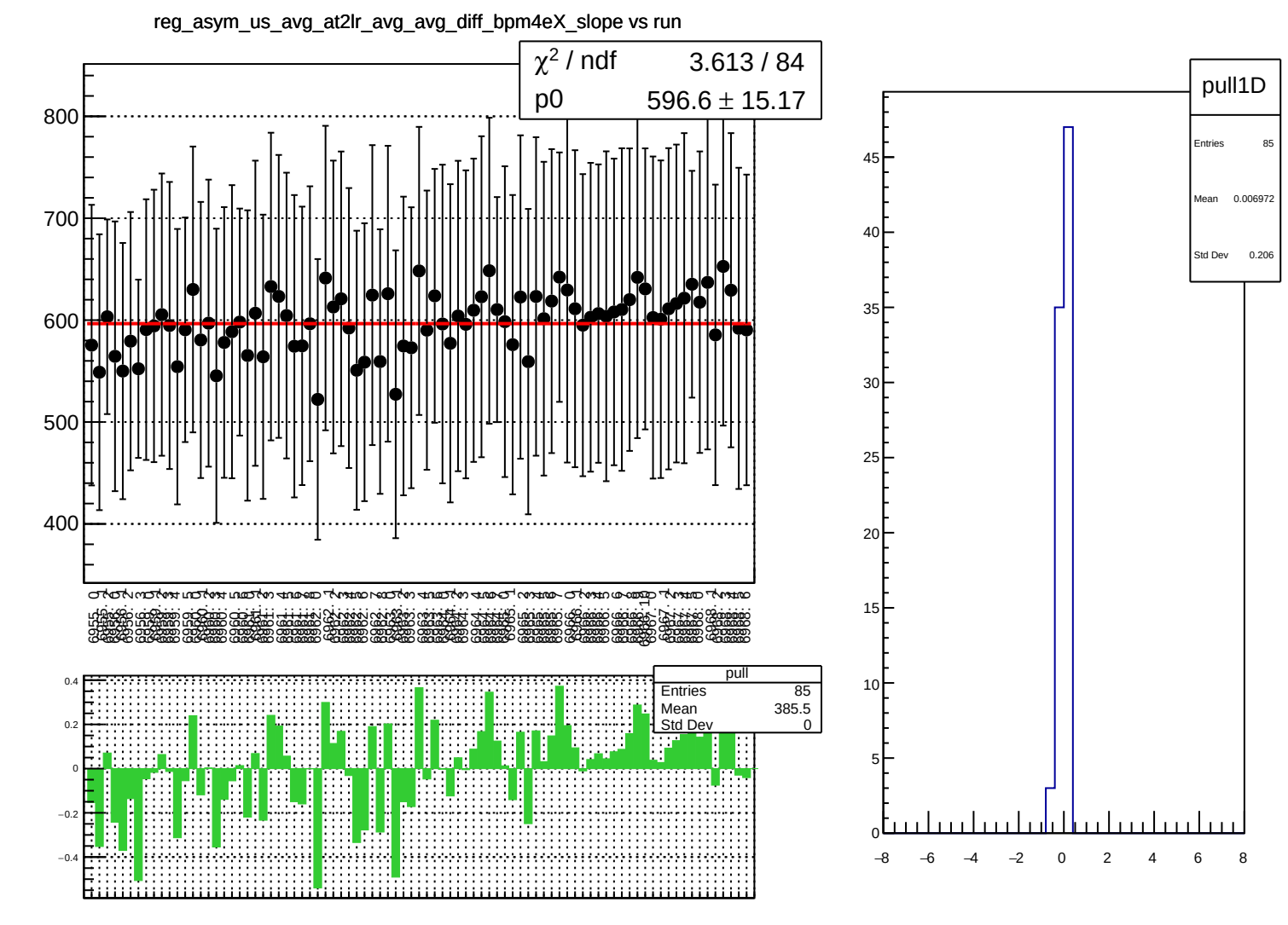

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 98.68 / 84
p0 −19.64 ± 0.07064
pull
Entries 85
Mean 491.9
Std Dev 0
pull1D
Entries 85
Mean −0.005445
Std Dev 1.077

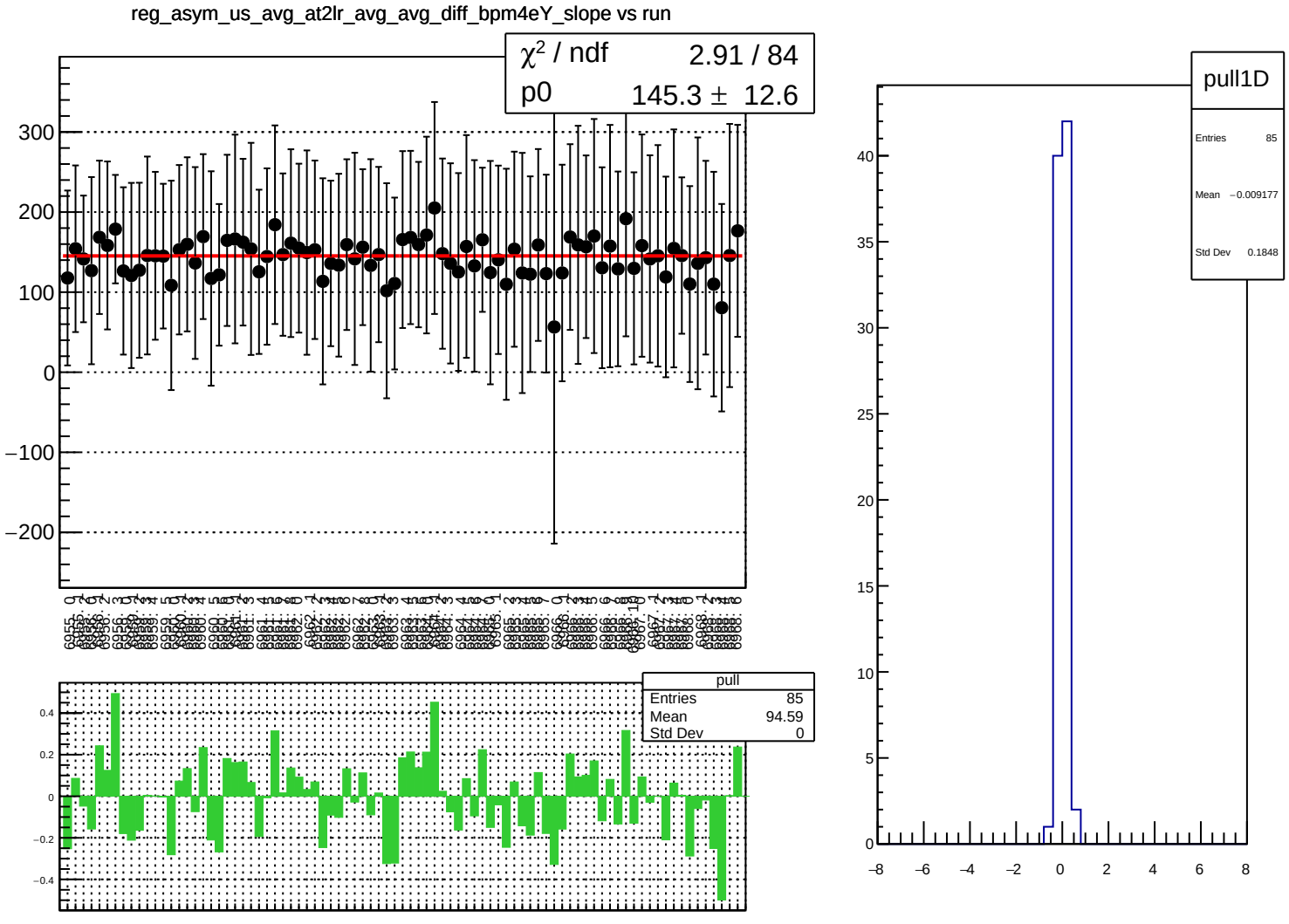

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.452 / 84
p0 −616.6 ± 16.42
−400
−500
−600
−700
−800
pull
Entries 85
Mean 359.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4

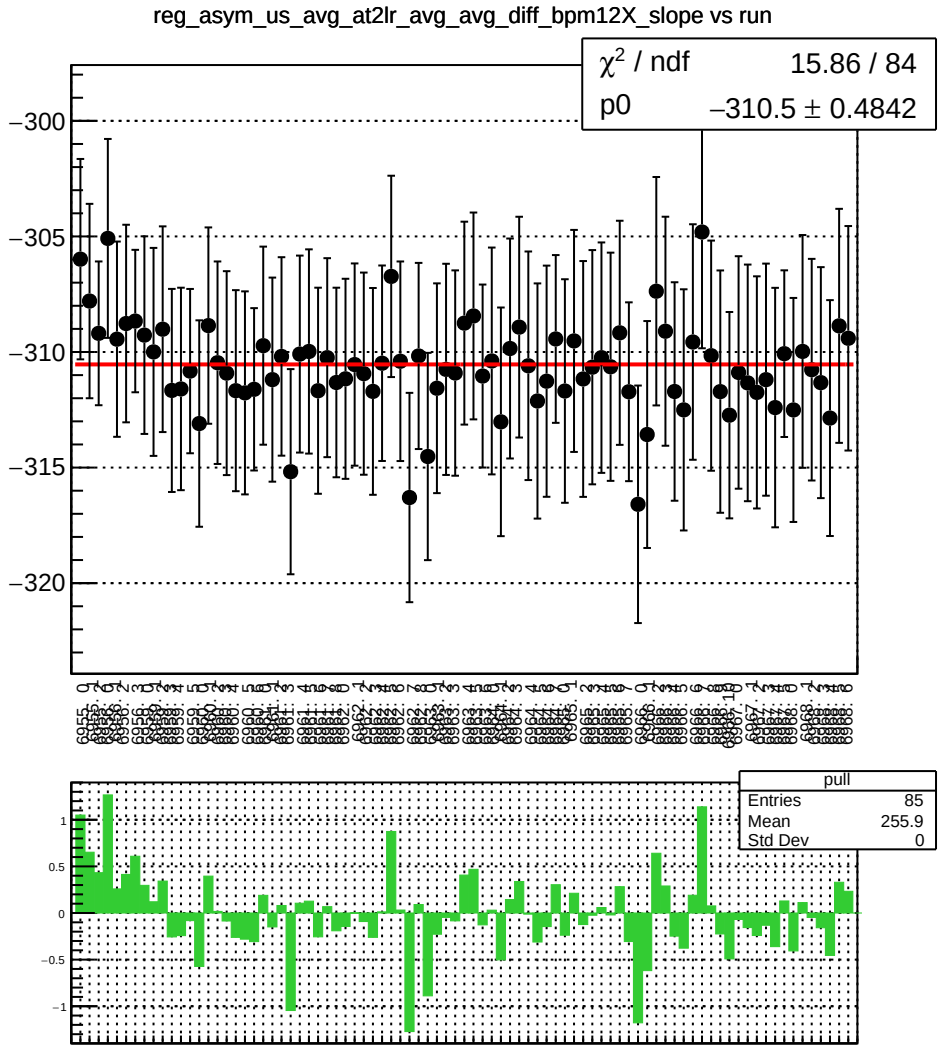

pull1D
Entries 85
Mean −0.006745
Std Dev 0.2014
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

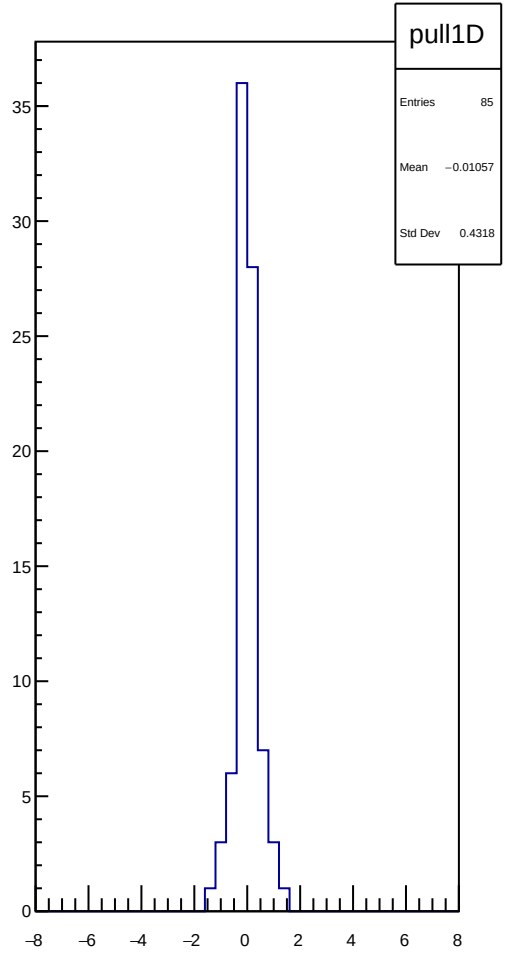

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.89 / 84
p0 12.47 ± 11.08
pull
Entries 85
Mean 84.44
Std Dev 0

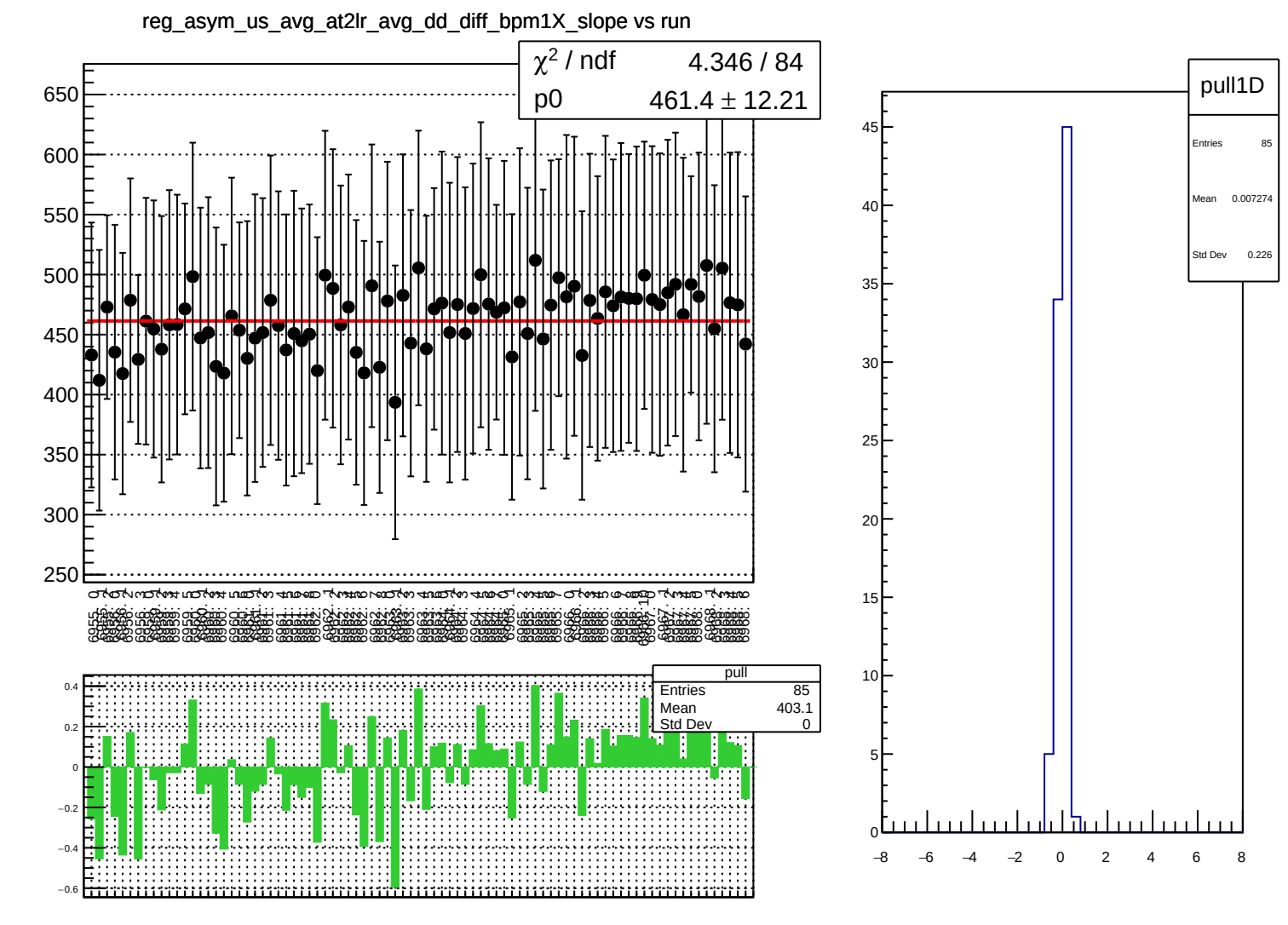

pull1D
Entries 85
Mean 0.01106
Std Dev 0.1841

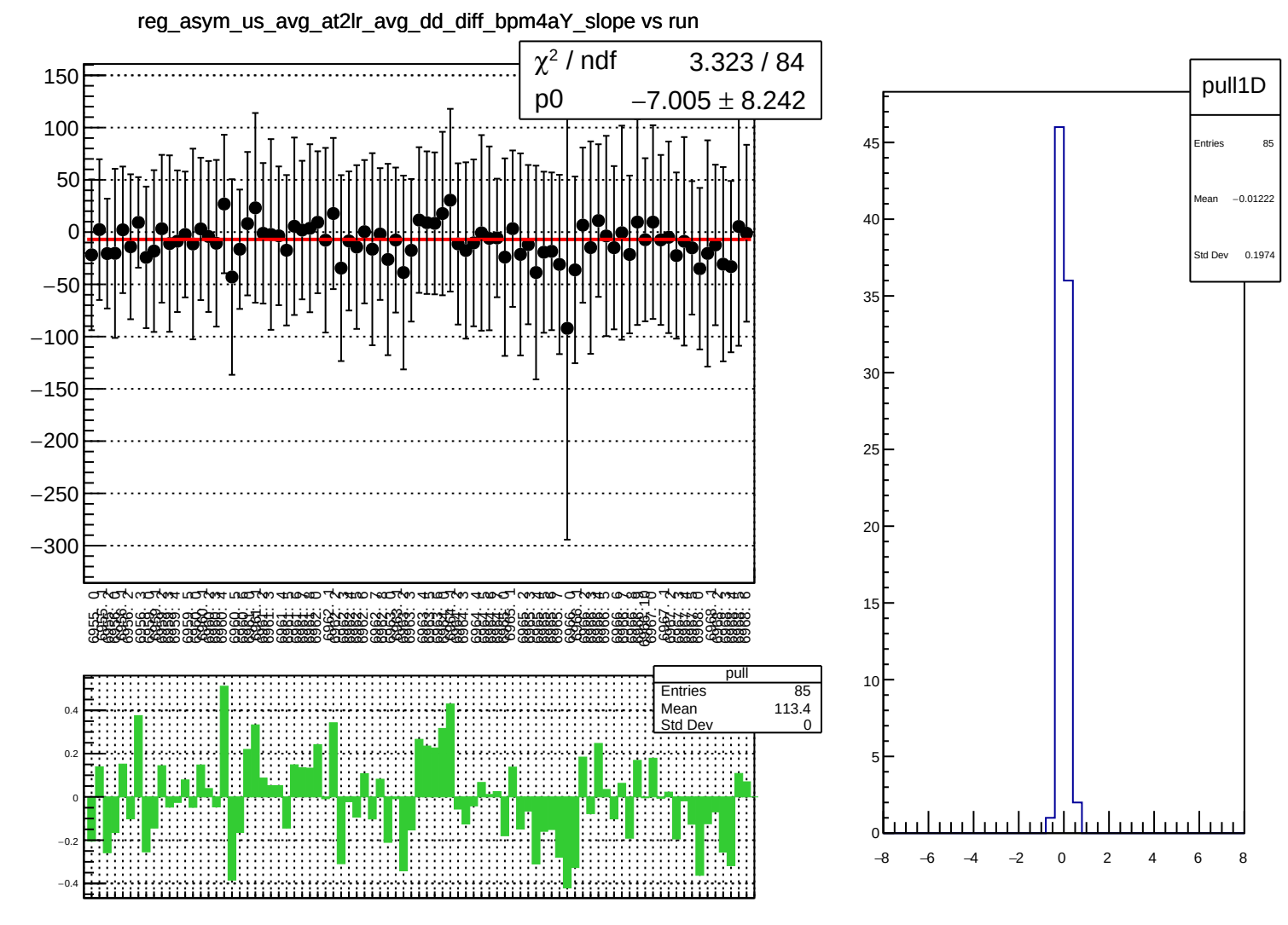

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.613 / 84
p0 596.6 ± 15.17
800
700
600
500
400
pull
Entries 85
Mean 385.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 85
Mean 0.006972
Std Dev 0.206
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

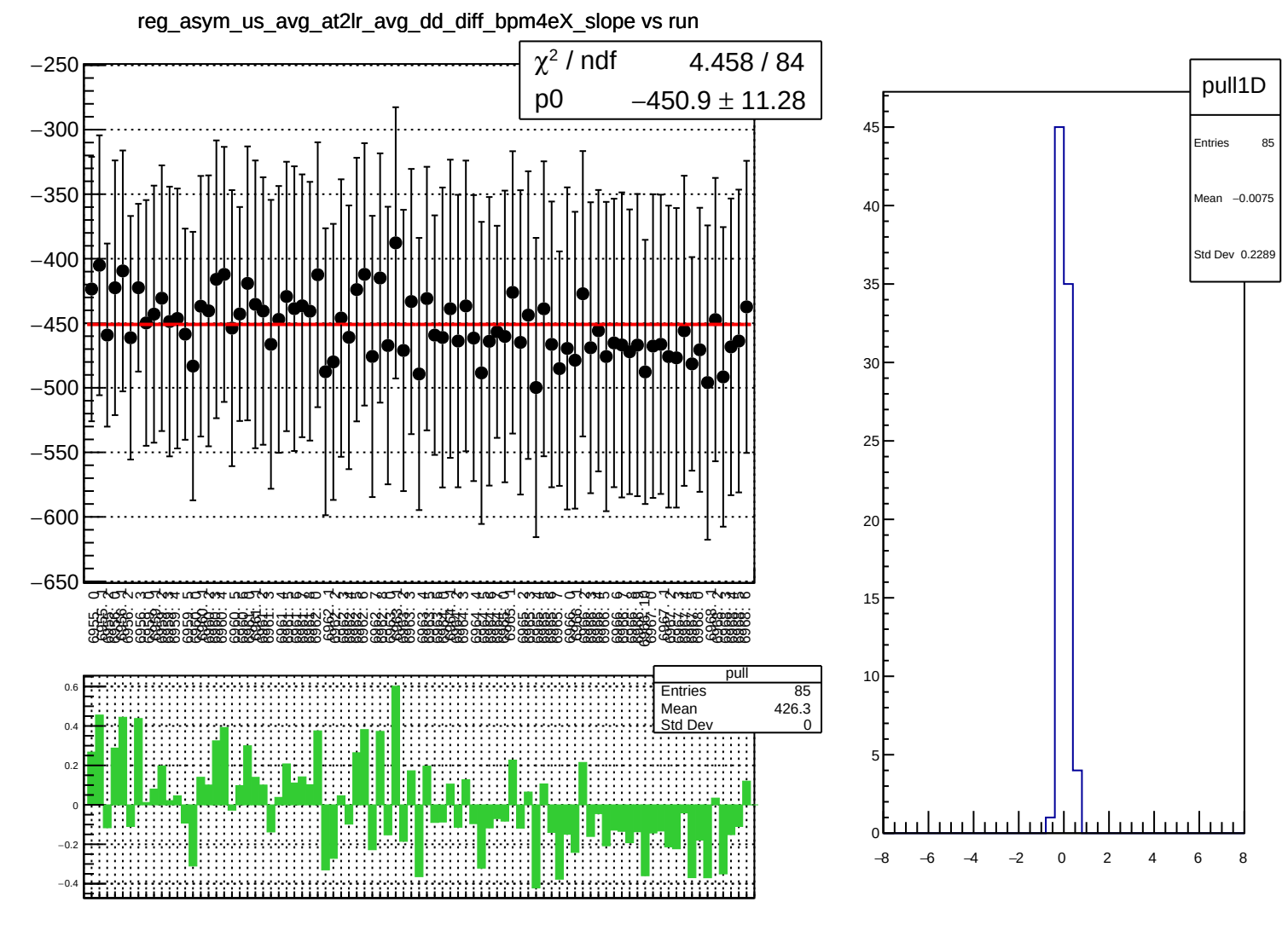

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.91 / 84
p0 145.3 ± 12.6
300
200
100
0
−100
−200
pull
Entries 85
Mean 94.59
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 85
Mean −0.009177
Std Dev 0.1848
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

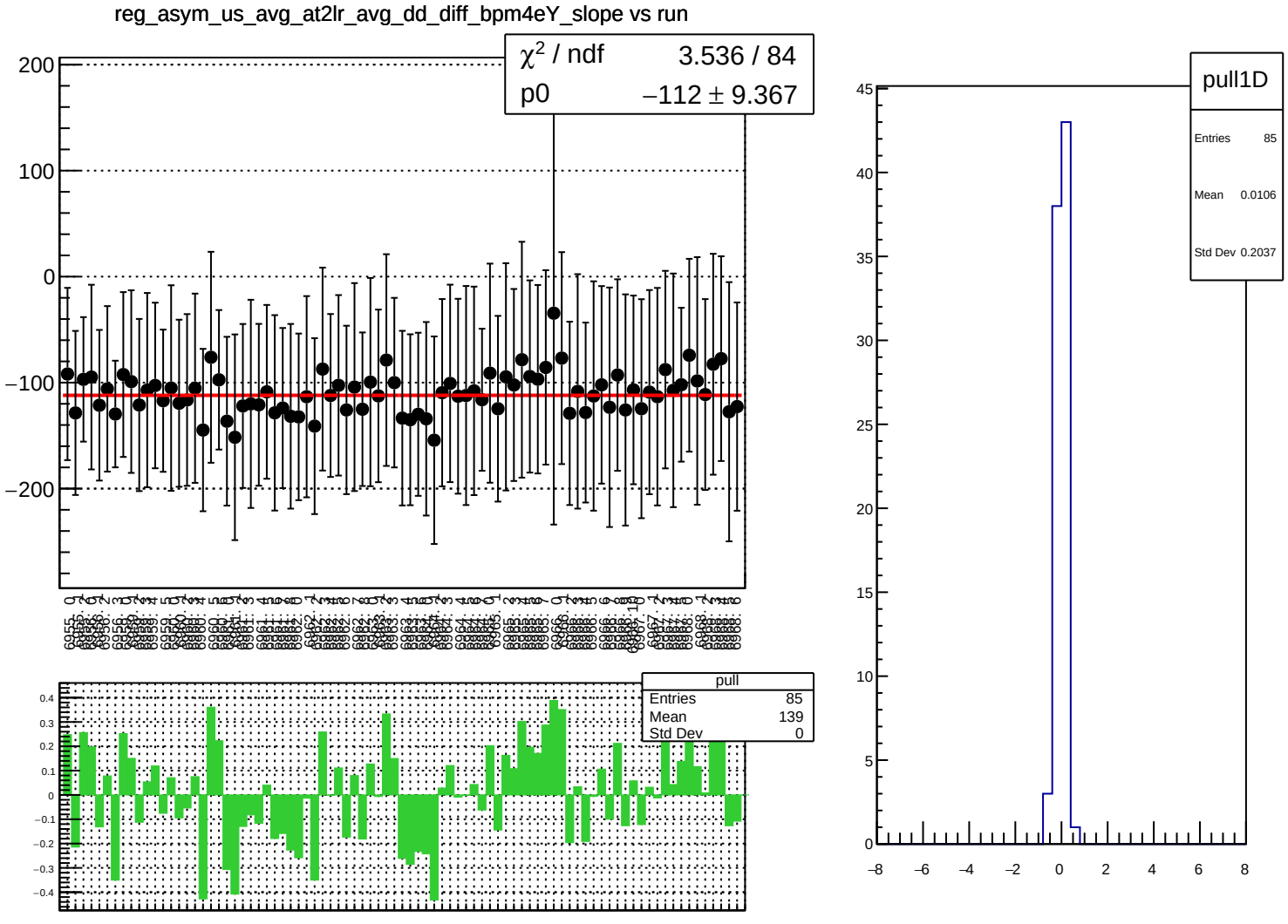

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 15.86 / 84
p0 −310.5 ± 0.4842
−300
−305
−310
−315
−320
pull
Entries 85
Mean 255.9
Std Dev 0
1
0.5
0
−0.5
−1

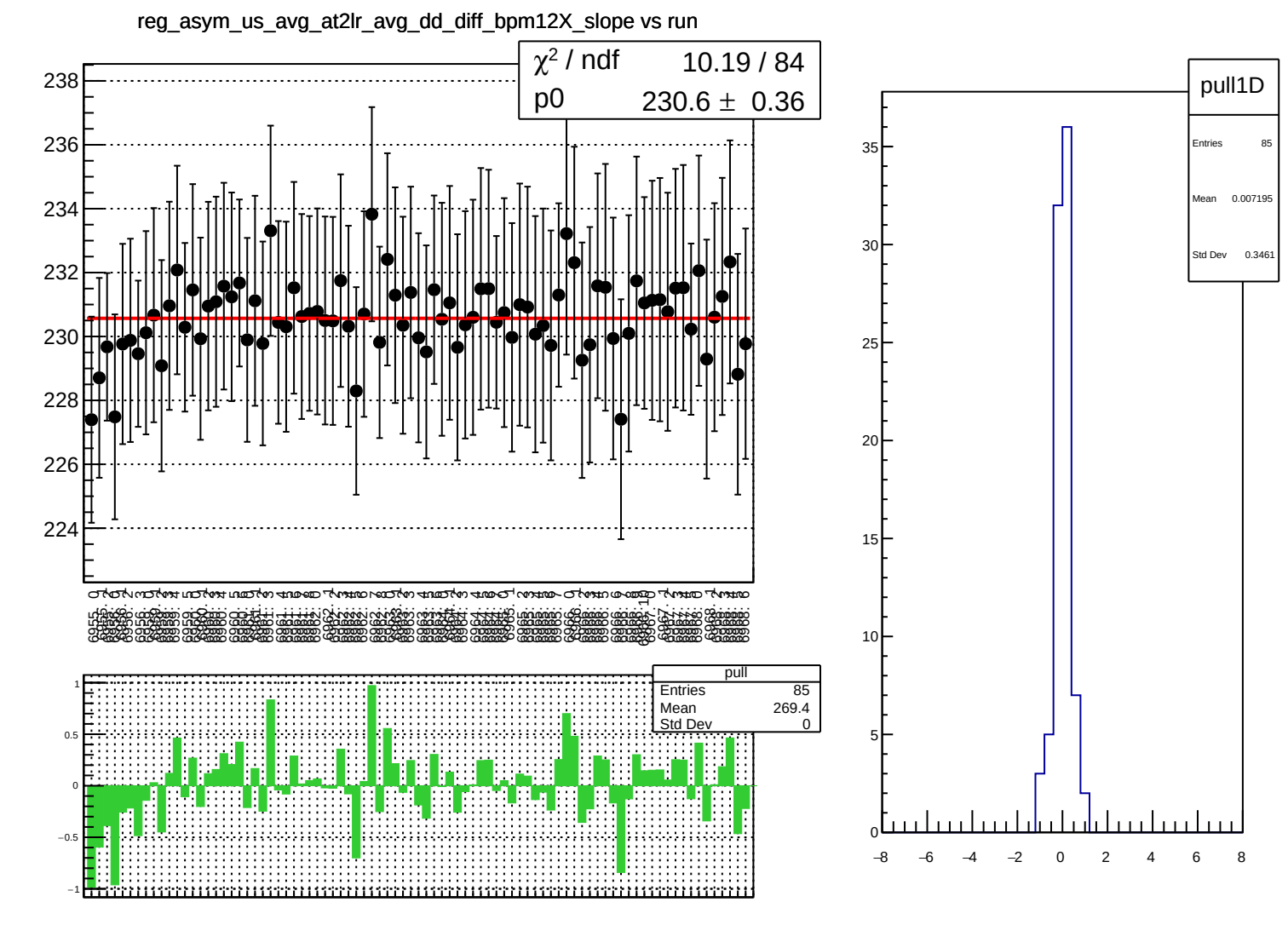

pull1D
Entries 85
Mean −0.01057
Std Dev 0.4318
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

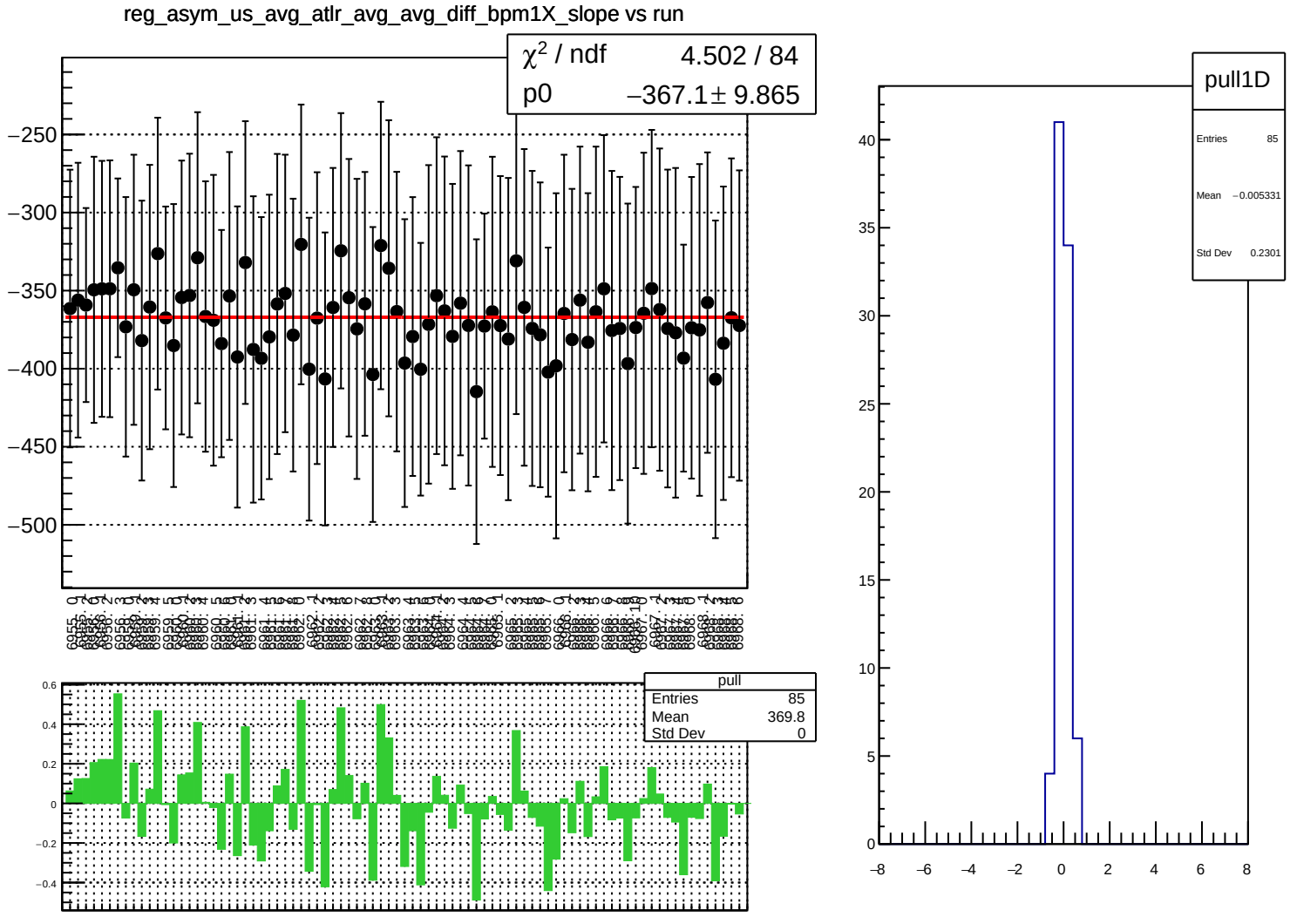

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 4.346 / 84
p0 461.4 ± 12.21
pull
Entries 85
Mean 403.1
Std Dev 0
pull1D
Entries 85
Mean 0.007274
Std Dev 0.226

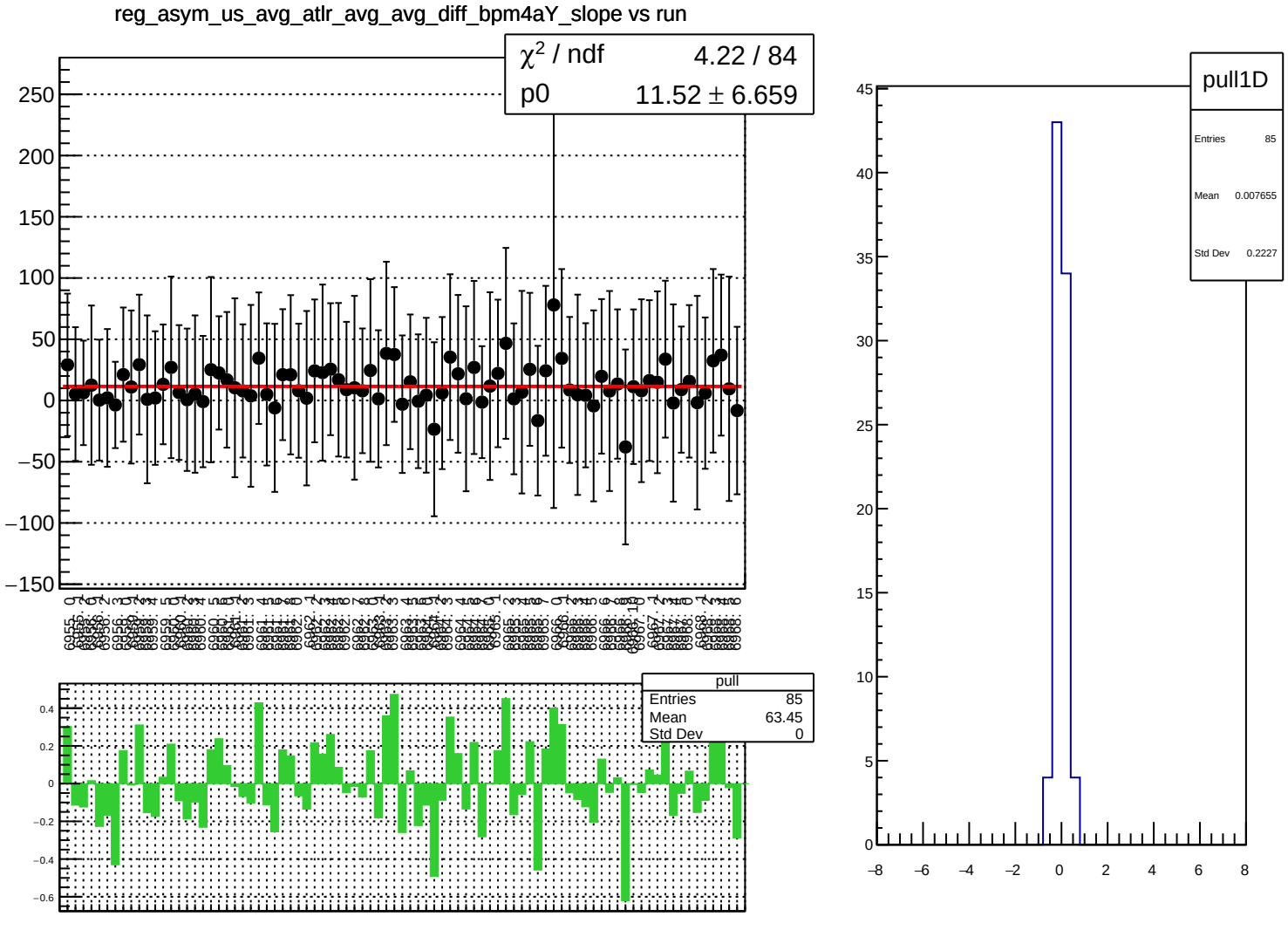

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.323 / 84
p0 −7.005 ± 8.242
pull
Entries 85
Mean 113.4
Std Dev 0
pull1D
Entries 85
Mean −0.01222
Std Dev 0.1974

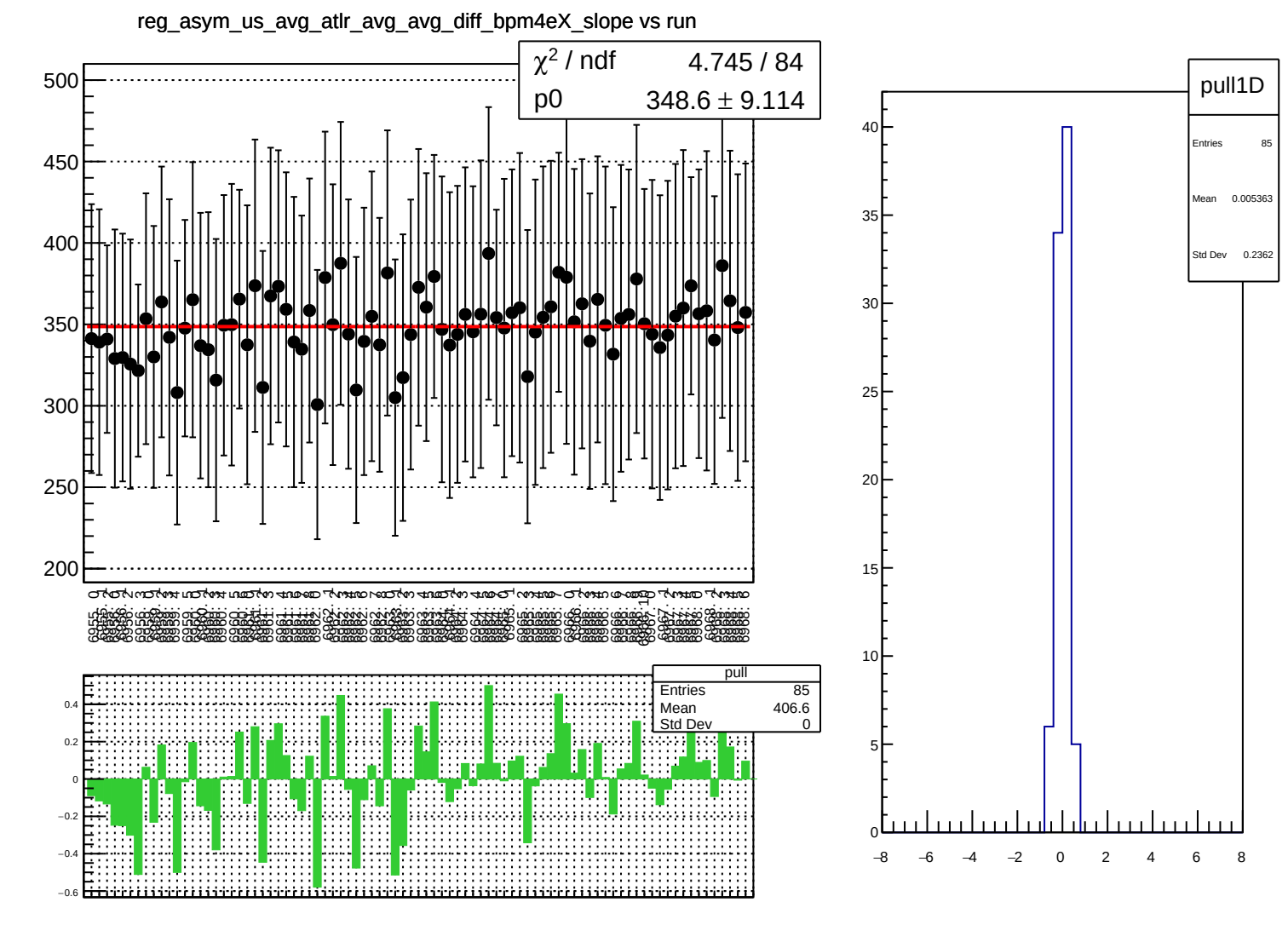

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.458 / 84
p0 −450.9 ± 11.28
pull
Entries 85
Mean 426.3
Std Dev 0
pull1D
Entries 85
Mean −0.0075
Std Dev 0.2289

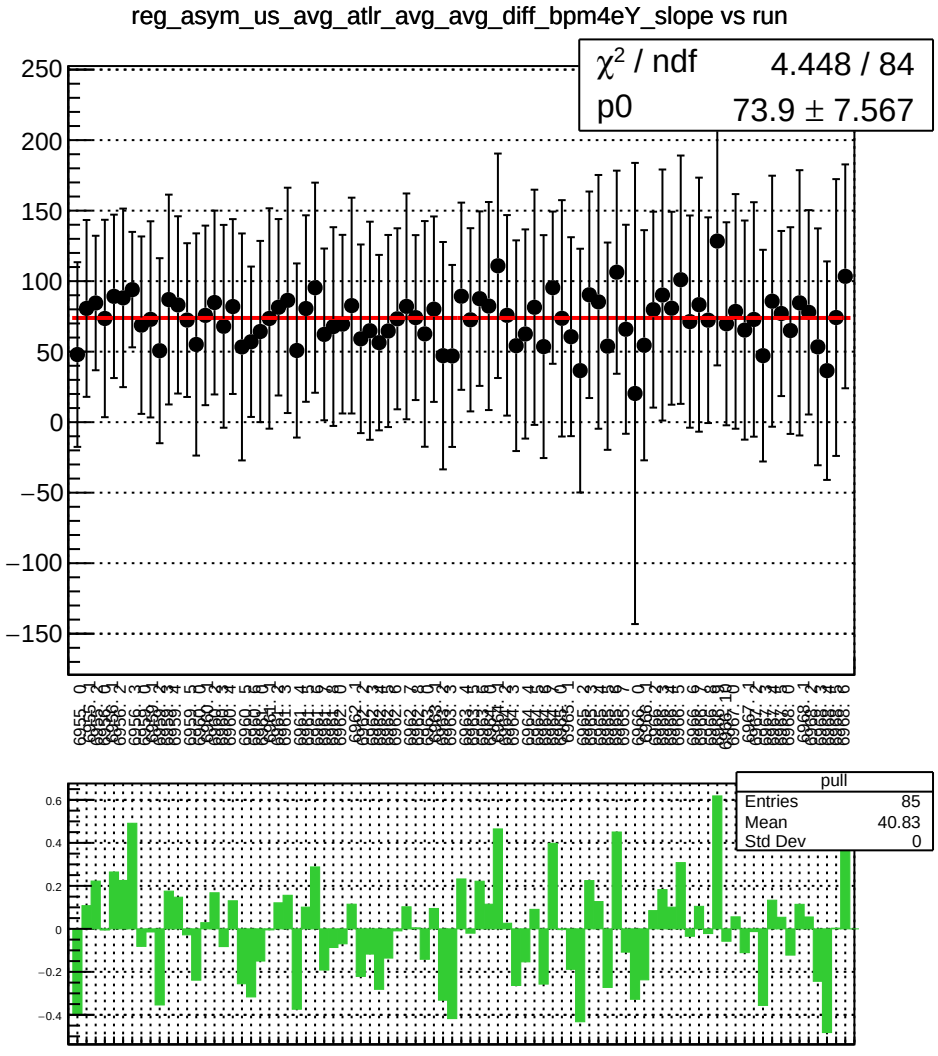

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.536 / 84
p0 −112 ± 9.367
200
100
0
−100
−200
pull
Entries 85
Mean 139
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 85
Mean 0.0106
Std Dev 0.2037
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

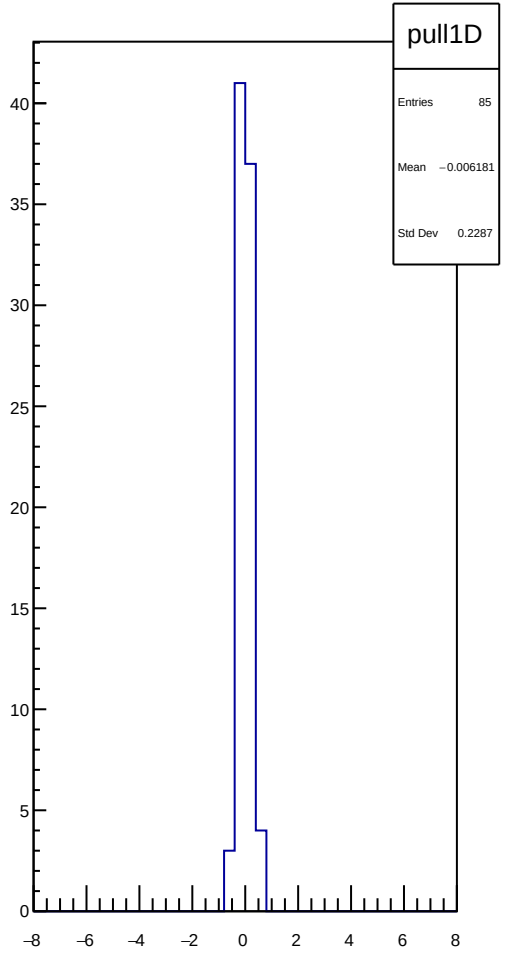

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 10.19 / 84
p0 230.6 ± 0.36
pull
Entries 85
Mean 269.4
Std Dev 0
pull1D
Entries 85
Mean 0.007195
Std Dev 0.3461

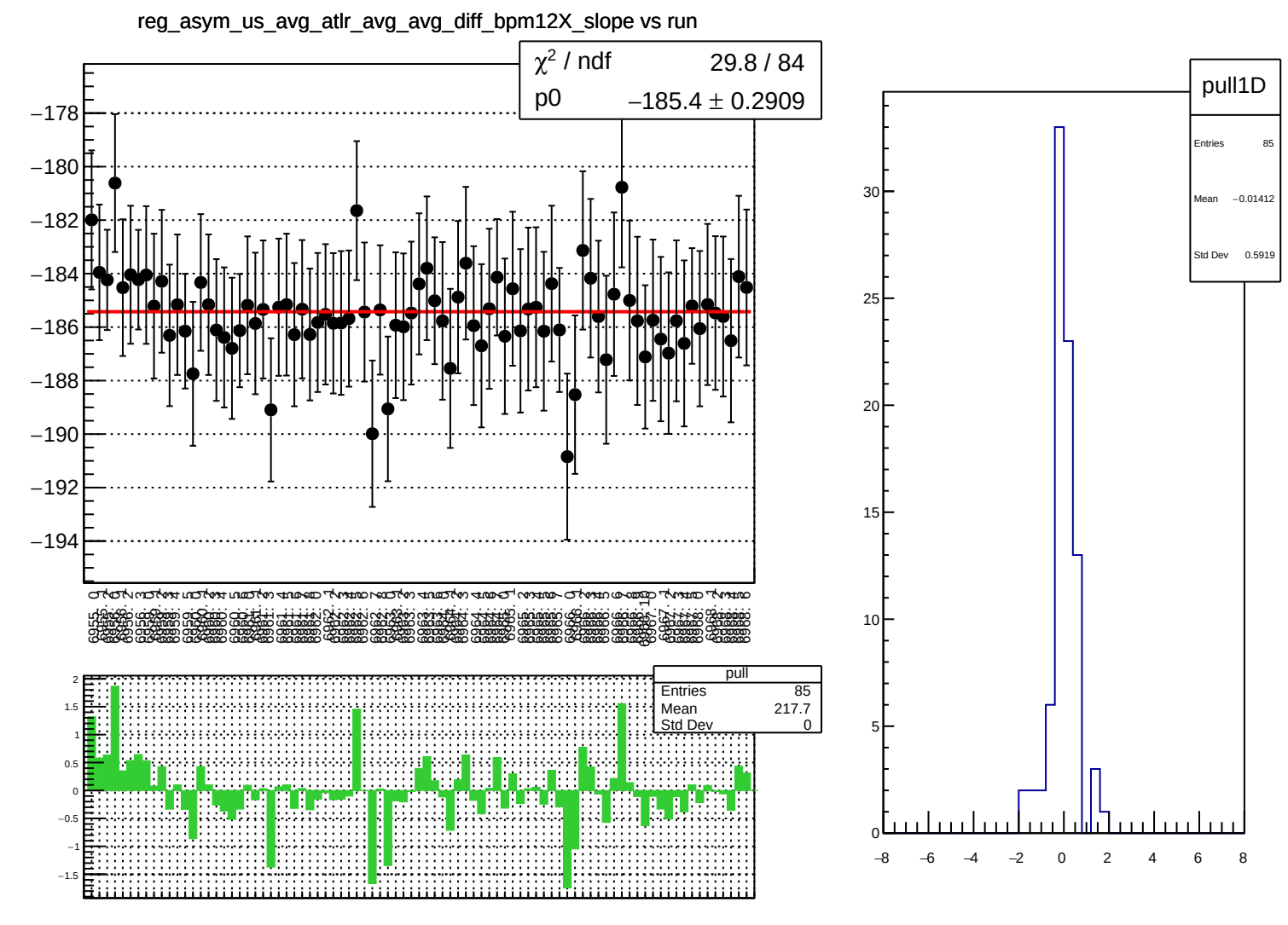

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.502 / 84
p0 −367.1 ± 9.865
−250
−300
−350
−400
−450
−500
pull
Entries 85
Mean 369.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 85
Mean −0.005331
Std Dev 0.2301
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

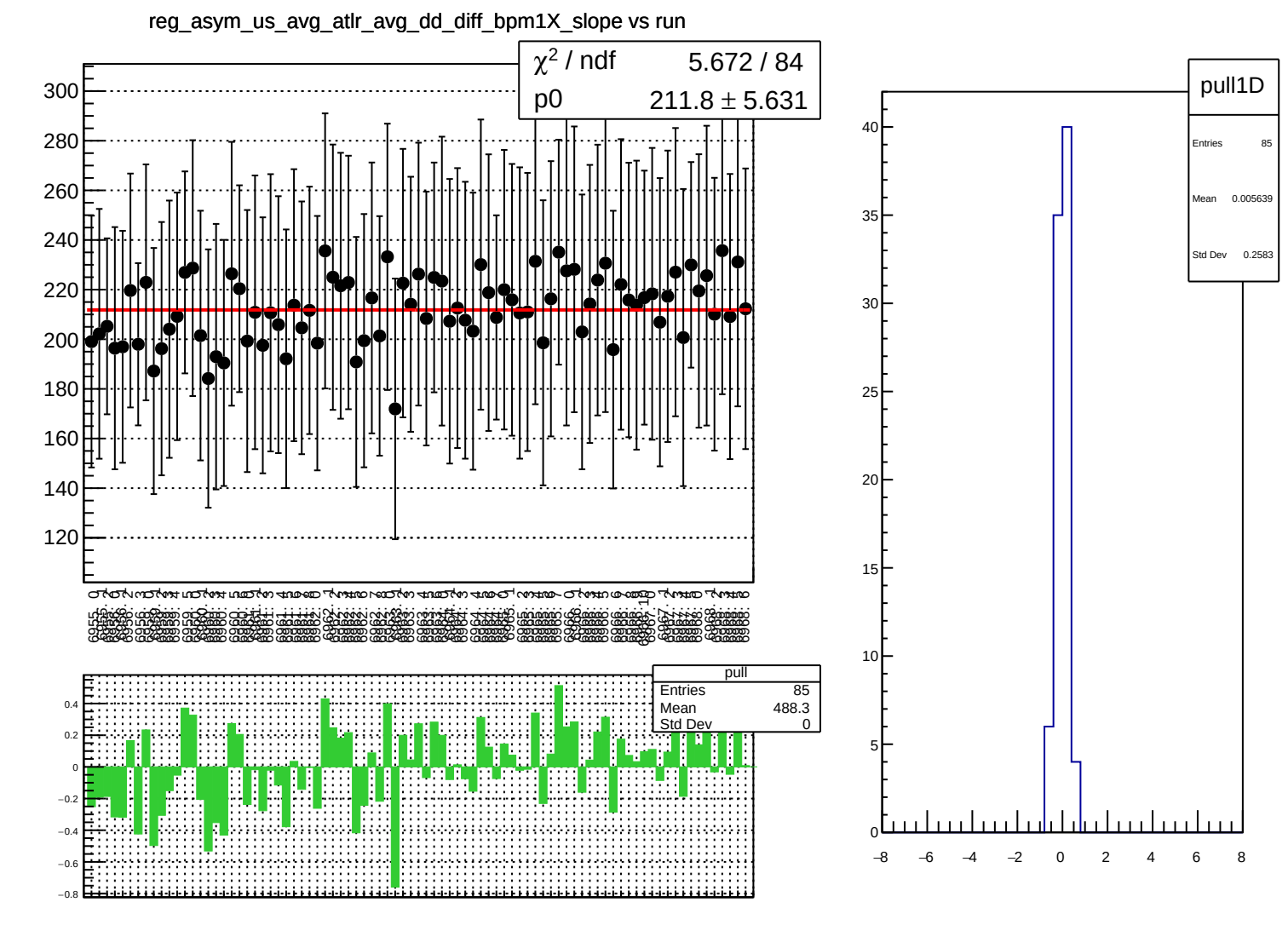

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.22 / 84
p0 11.52 ± 6.659
pull
Entries 85
Mean 63.45
Std Dev 0
pull1D
Entries 85
Mean 0.007655
Std Dev 0.2227

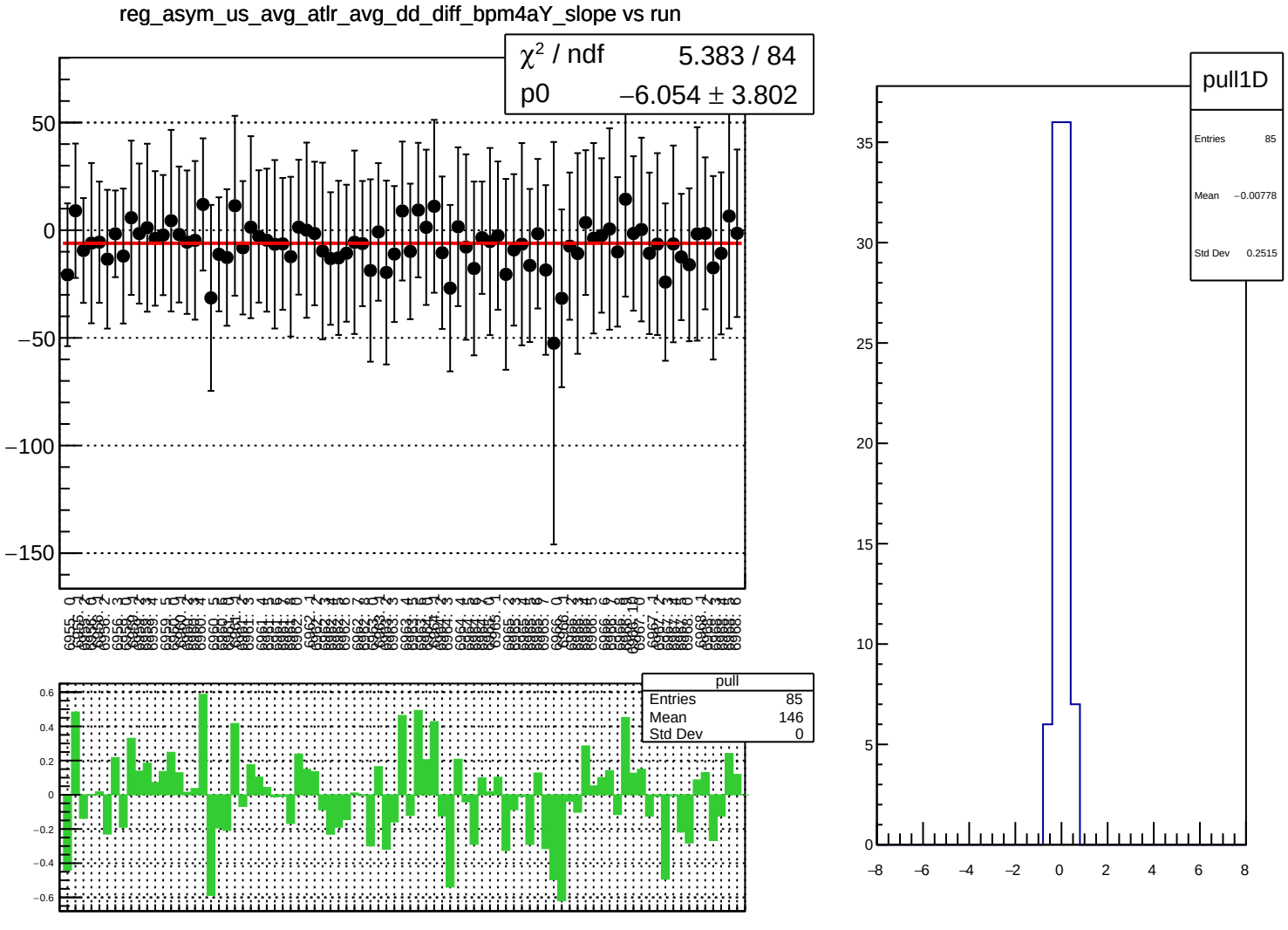

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.745 / 84
p0 348.6 ± 9.114
pull
Entries 85
Mean 406.6
Std Dev 0
pull1D
Entries 85
Mean 0.005363
Std Dev 0.2362

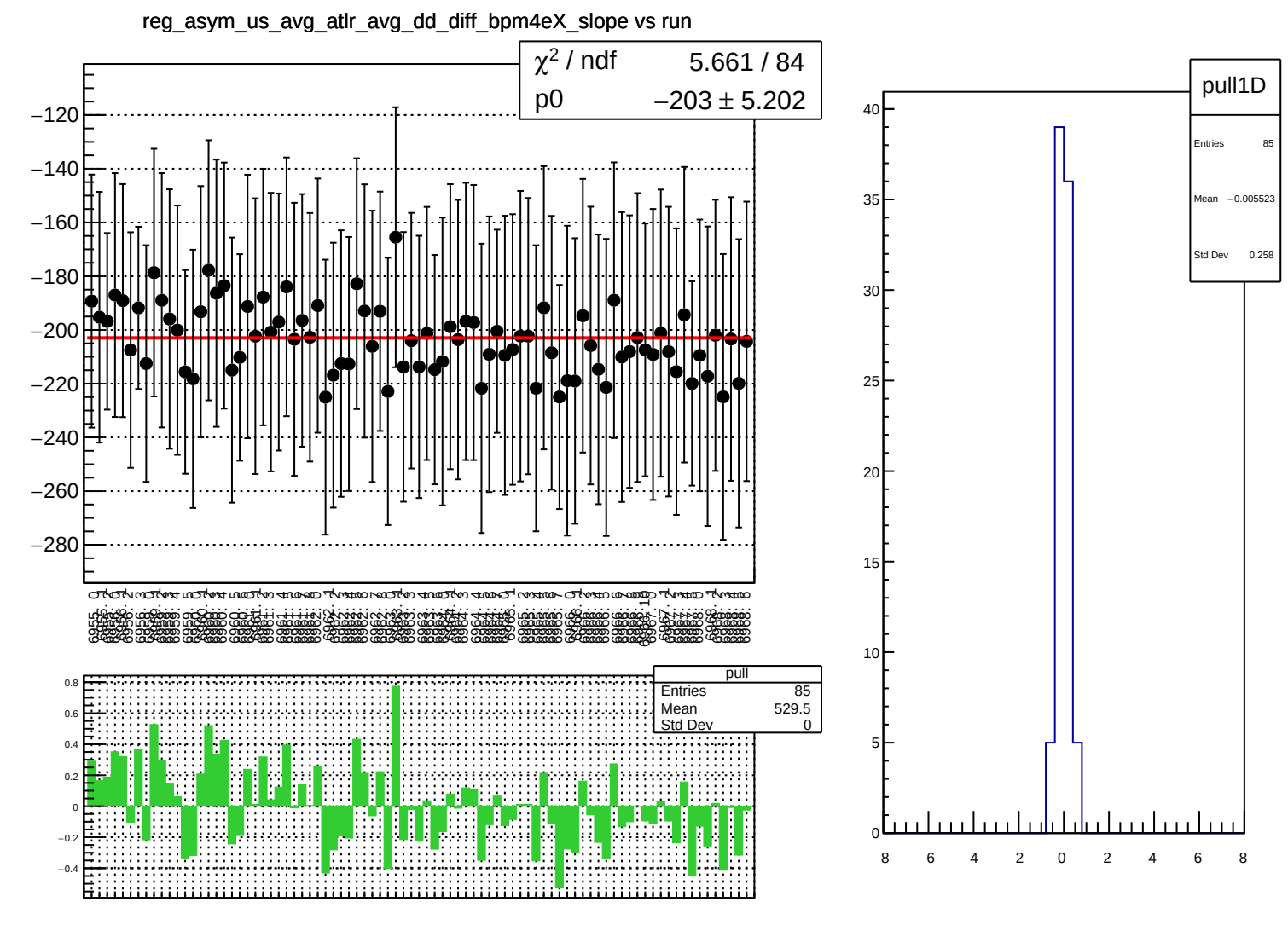

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.448 / 84
p0 73.9 ± 7.567
pull
Entries 85
Mean 40.83
Std Dev 0

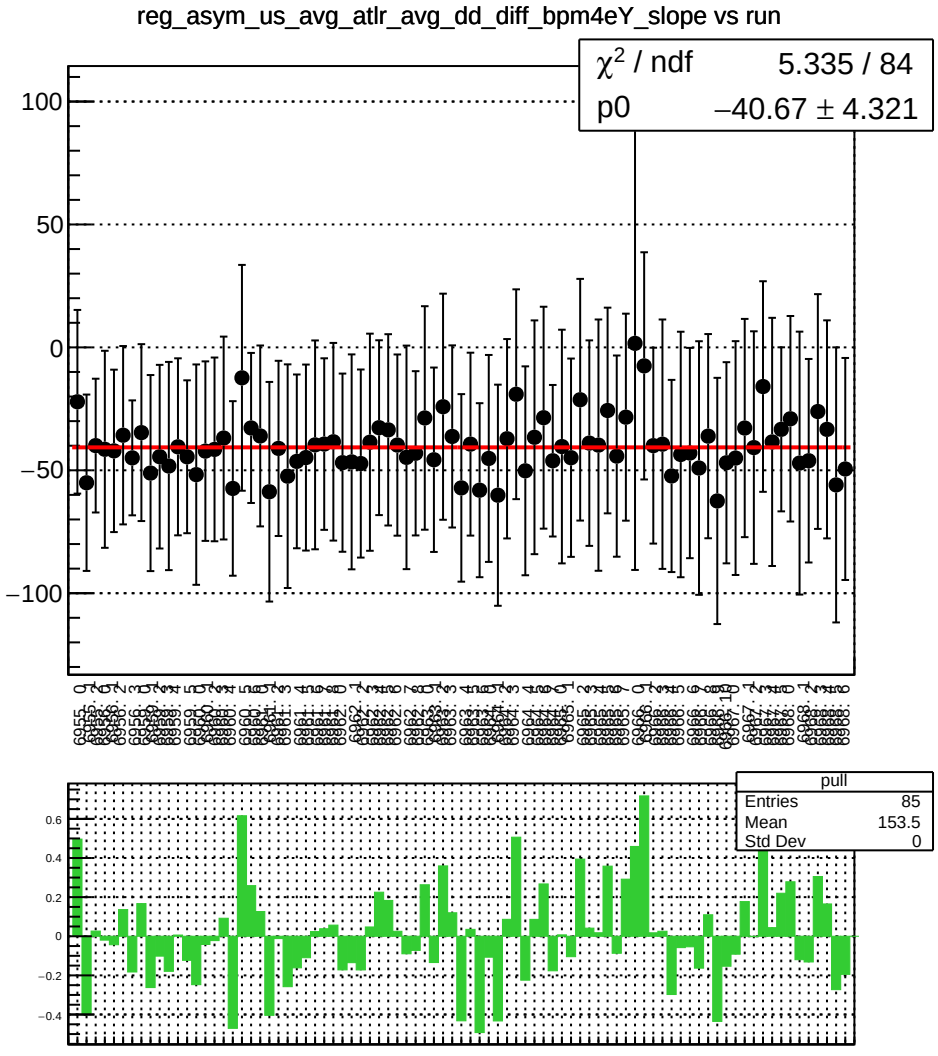

pull1D
Entries 85
Mean −0.006181
Std Dev 0.2287

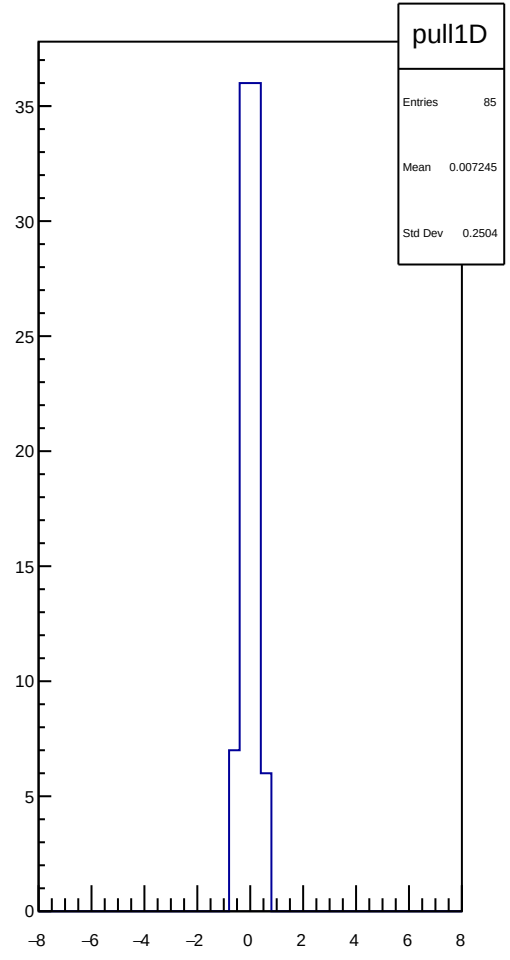

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 29.8 / 84
p0 −185.4 ± 0.2909
−178
−180
−182
−184
−186
−188
−190
−192
−194
pull
Entries 85
Mean 217.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.01412
Std Dev 0.5919
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

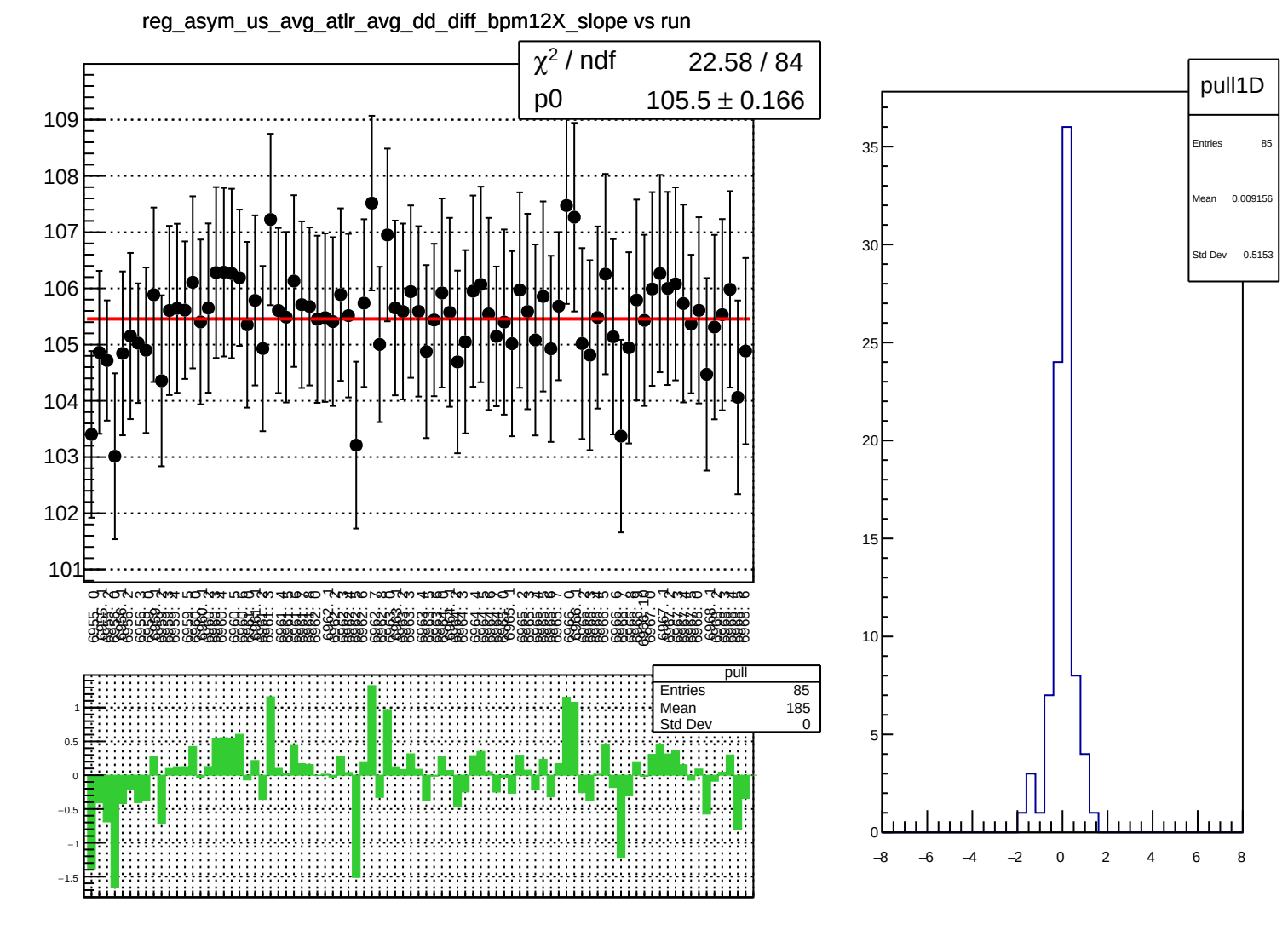

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 5.672 / 84
p0 211.8 ± 5.631
pull
Entries 85
Mean 488.3
Std Dev 0
pull1D
Entries 85
Mean 0.005639
Std Dev 0.2583

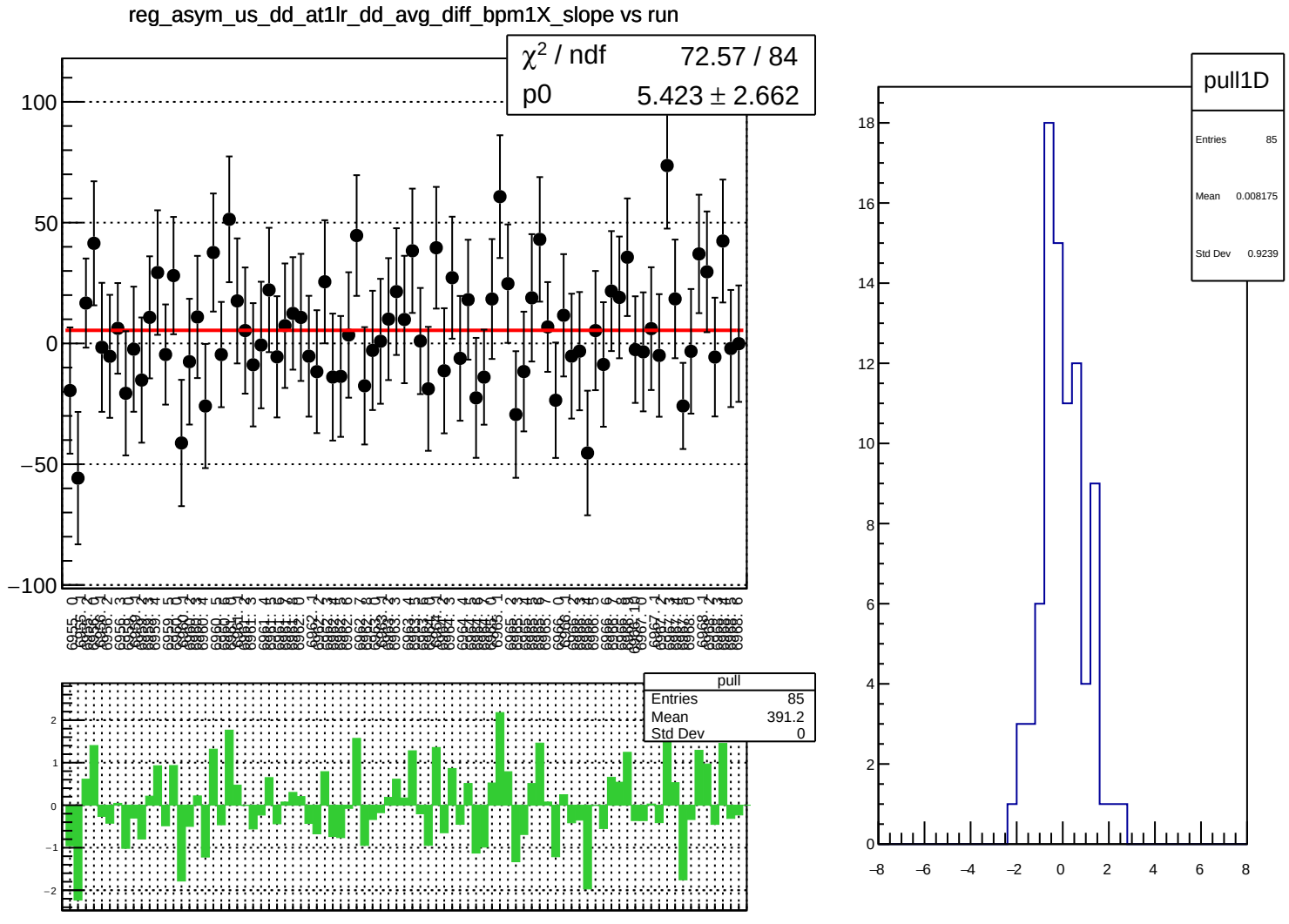

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.383 / 84
p0 −6.054 ± 3.802
50
0
−50
−100
−150
pull
Entries 85
Mean 146
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.00778
Std Dev 0.2515
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

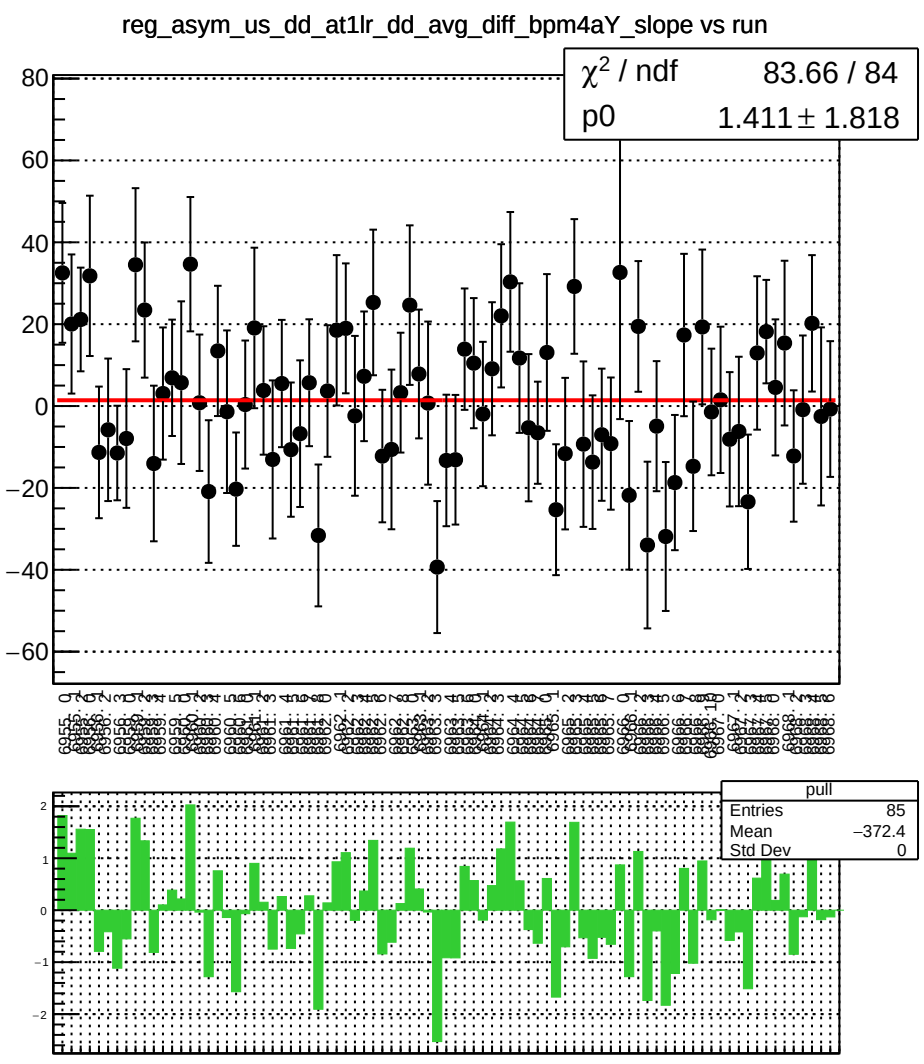

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.661 / 84
p0 −203 ± 5.202
pull
Entries 85
Mean 529.5
Std Dev 0
pull1D
Entries 85
Mean −0.005523
Std Dev 0.258

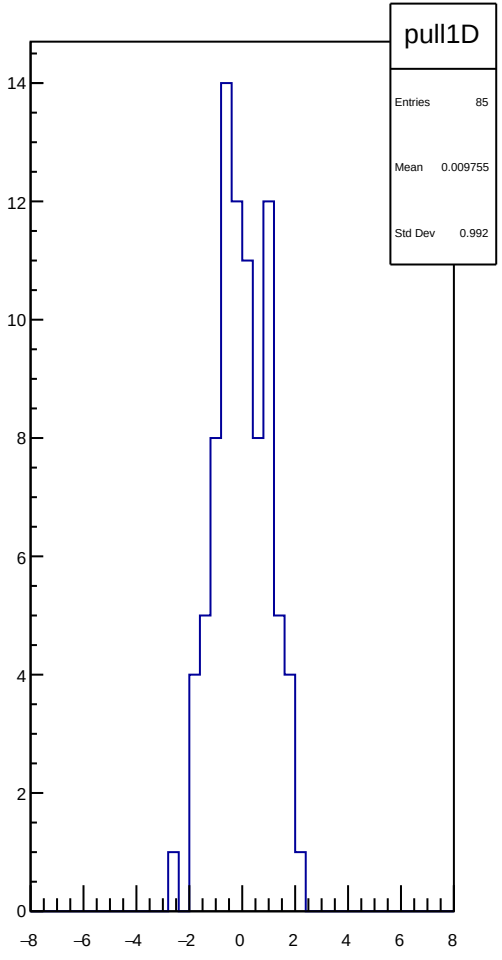

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.335 / 84
p0 −40.67 ± 4.321
pull
Entries 85
Mean 153.5
Std Dev 0

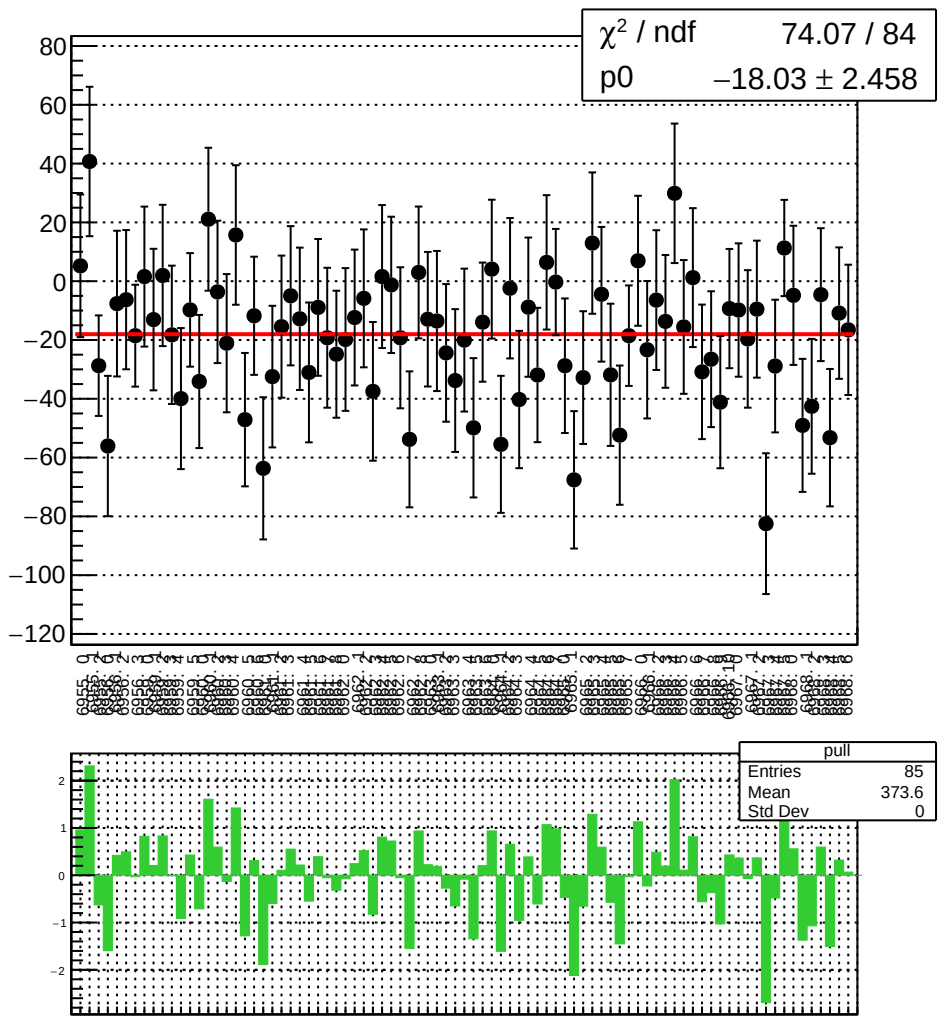

pull1D
Entries 85
Mean 0.007245
Std Dev 0.2504

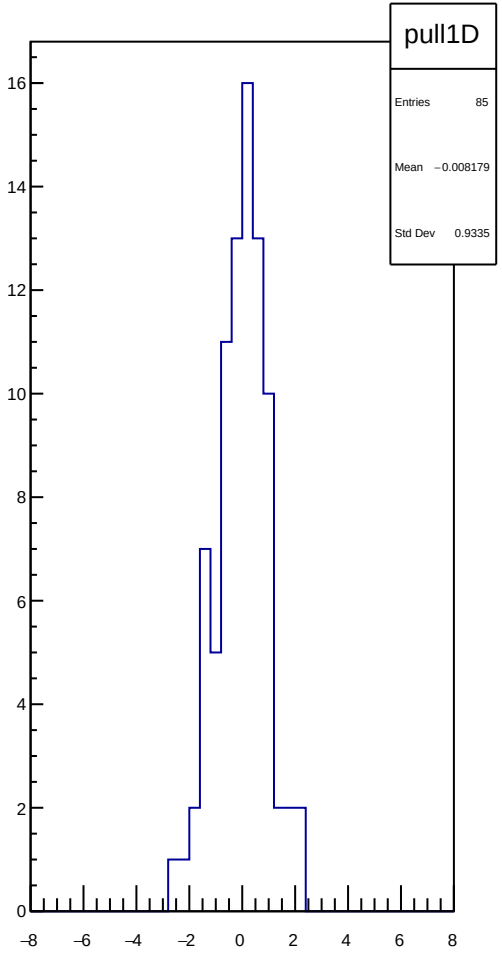

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 22.58 / 84
p0 105.5 ± 0.166
pull
Entries 85
Mean 185
Std Dev 0
pull1D
Entries 85
Mean 0.009156
Std Dev 0.5153

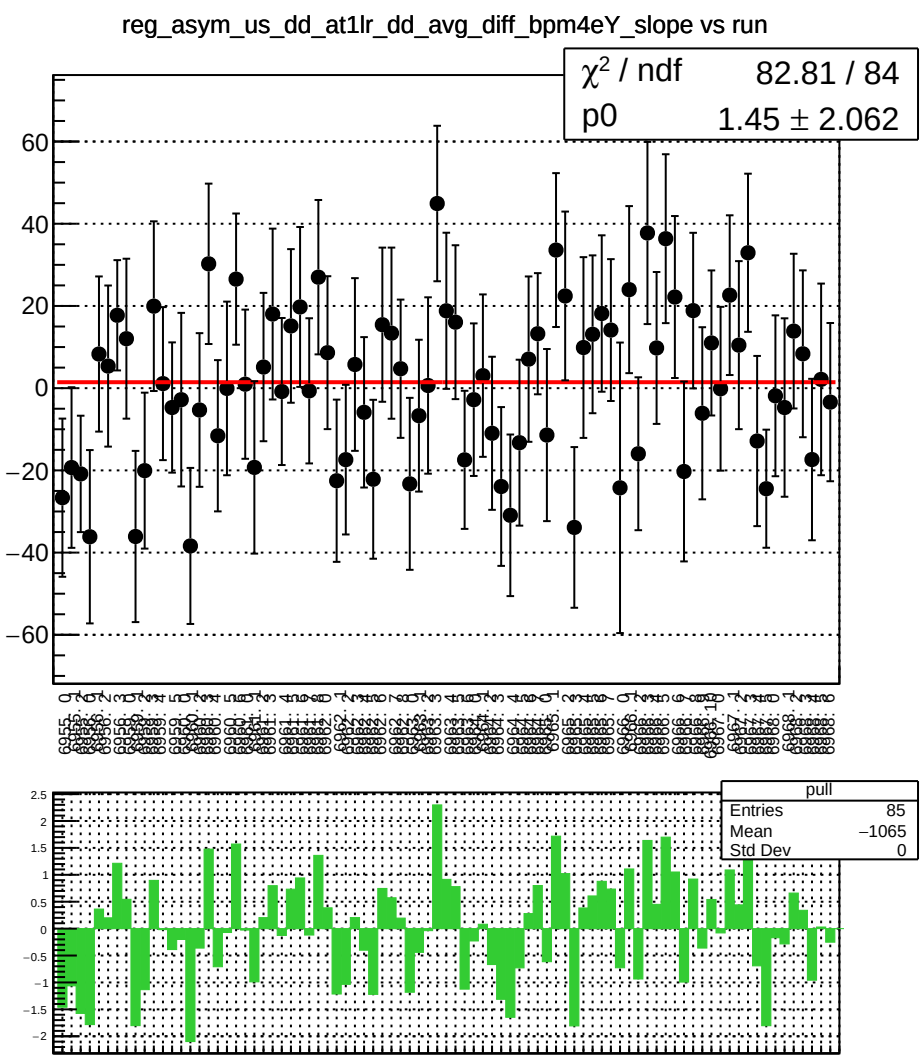

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 72.57 / 84
p0 5.423 ± 2.662
pull
Entries 85
Mean 391.2
Std Dev 0
pull1D
Entries 85
Mean 0.008175
Std Dev 0.9239

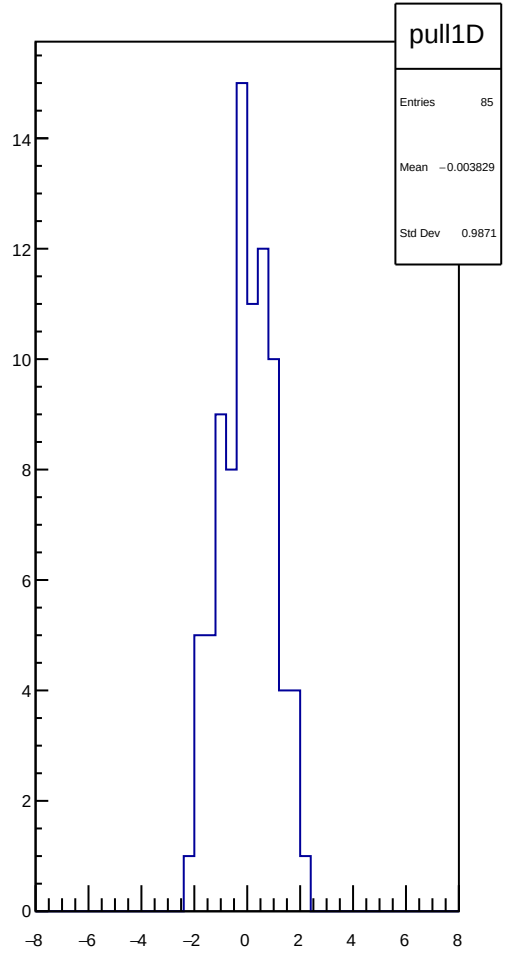

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 83.66 / 84
p0 1.411 ± 1.818
pull
Entries 85
Mean −372.4
Std Dev 0

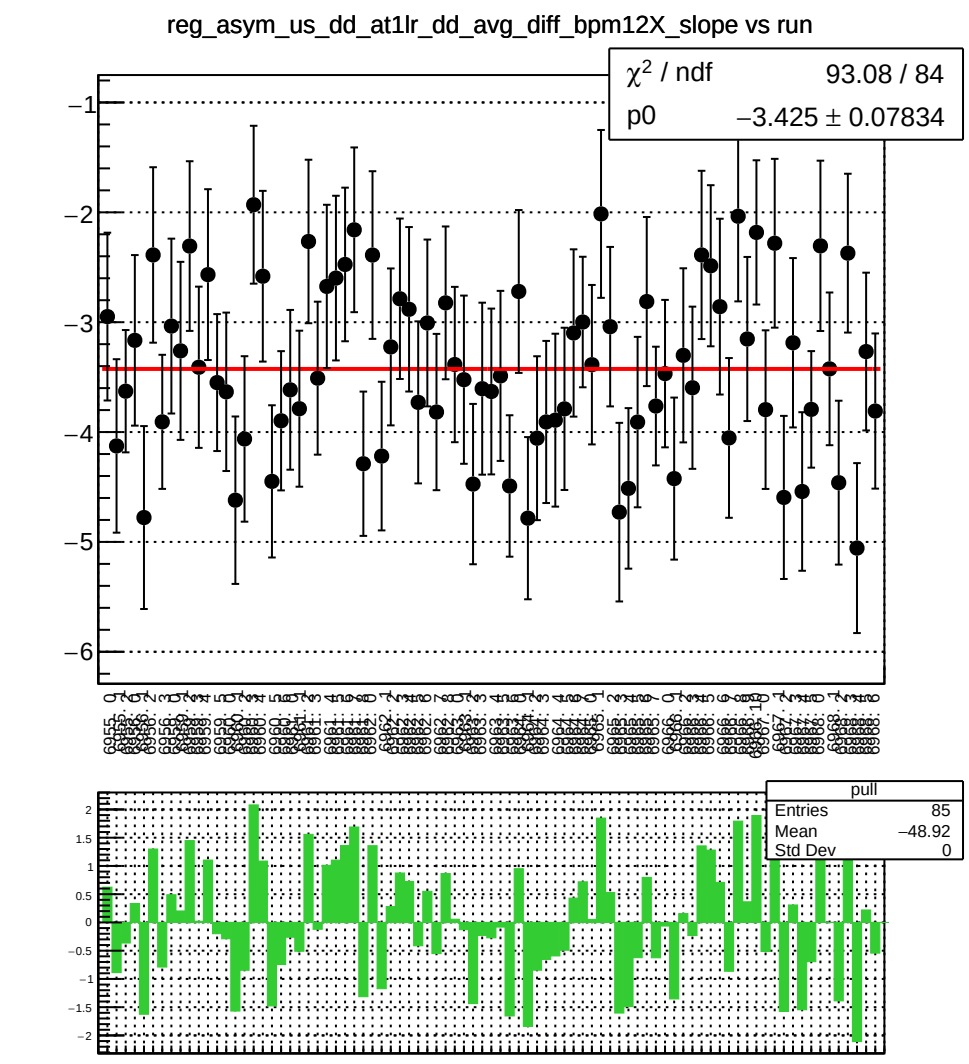

pull1D
Entries 85
Mean 0.009755
Std Dev 0.992

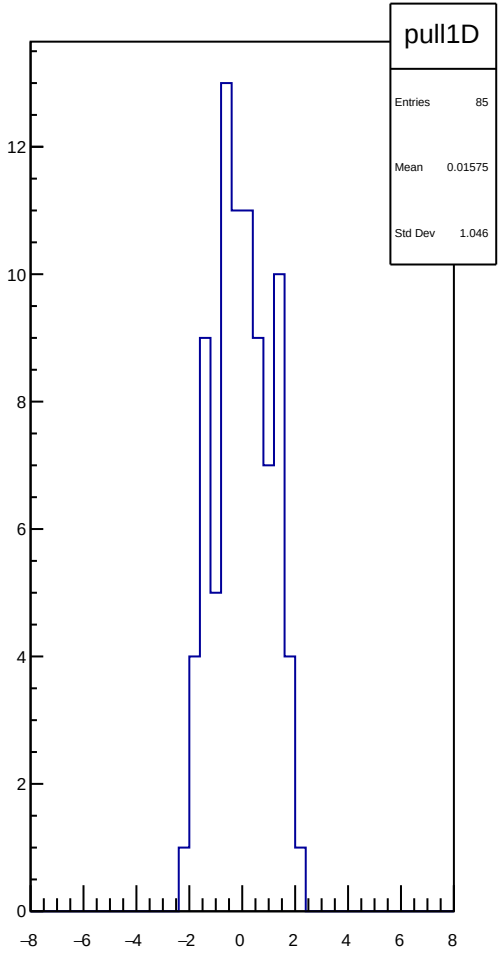

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.07 / 84
p0 −18.03 ± 2.458
pull
Entries 85
Mean 373.6
Std Dev 0

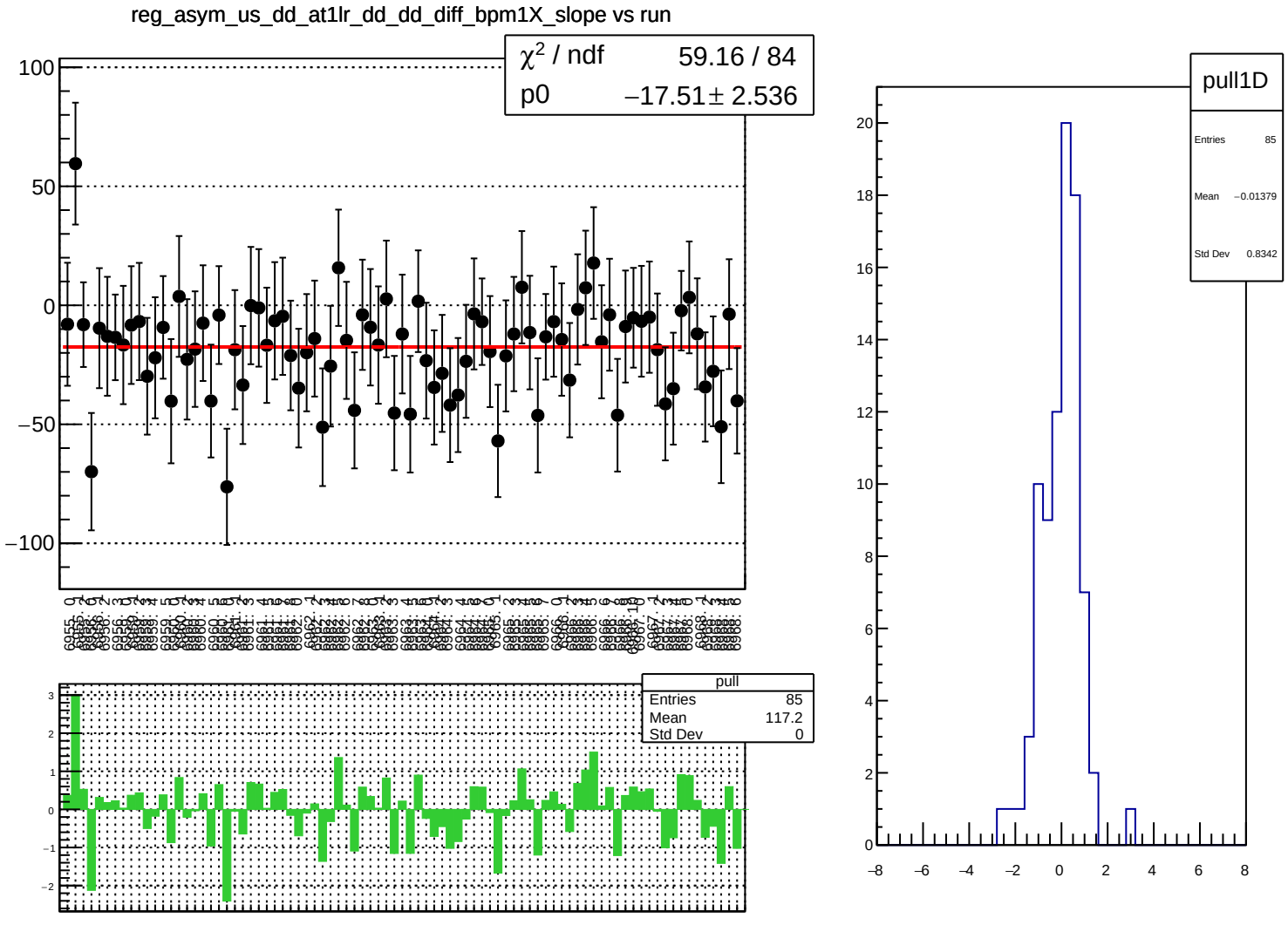

pull1D
Entries 85
Mean −0.008179
Std Dev 0.9335

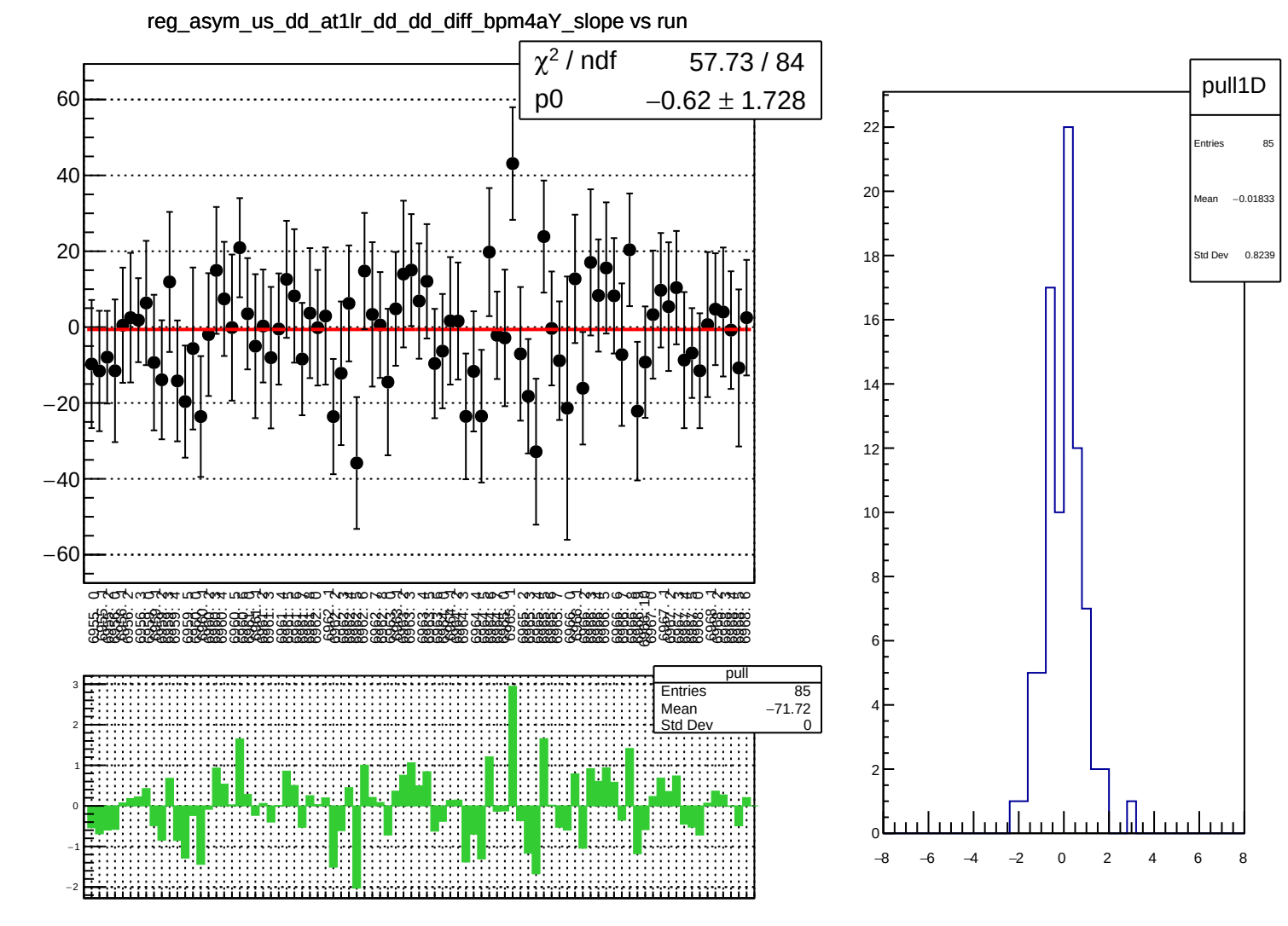

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 82.81 / 84
p0 1.45 ± 2.062
pull
Entries 85
Mean −1065
Std Dev 0

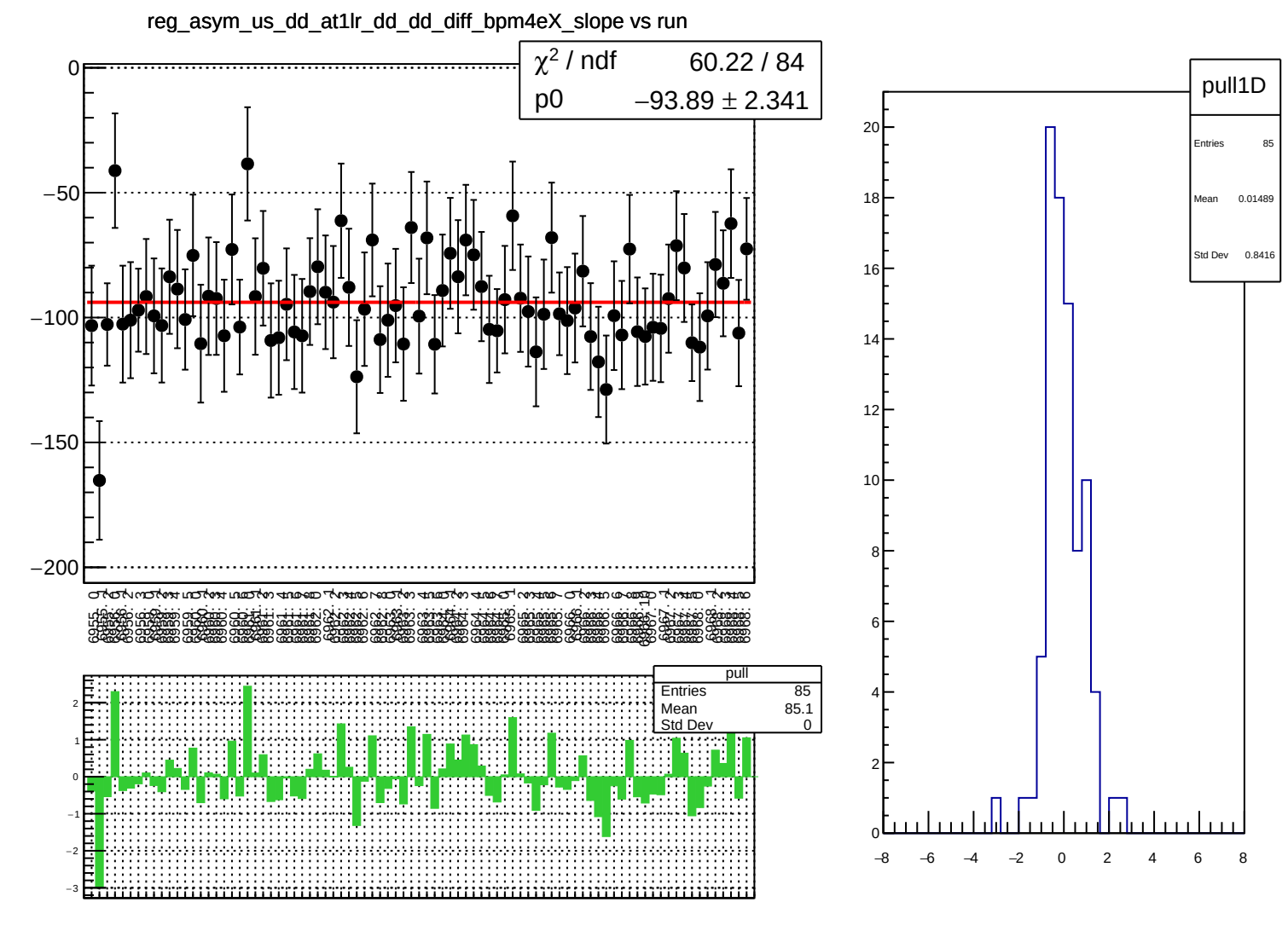

pull1D
Entries 85
Mean −0.003829
Std Dev 0.9871

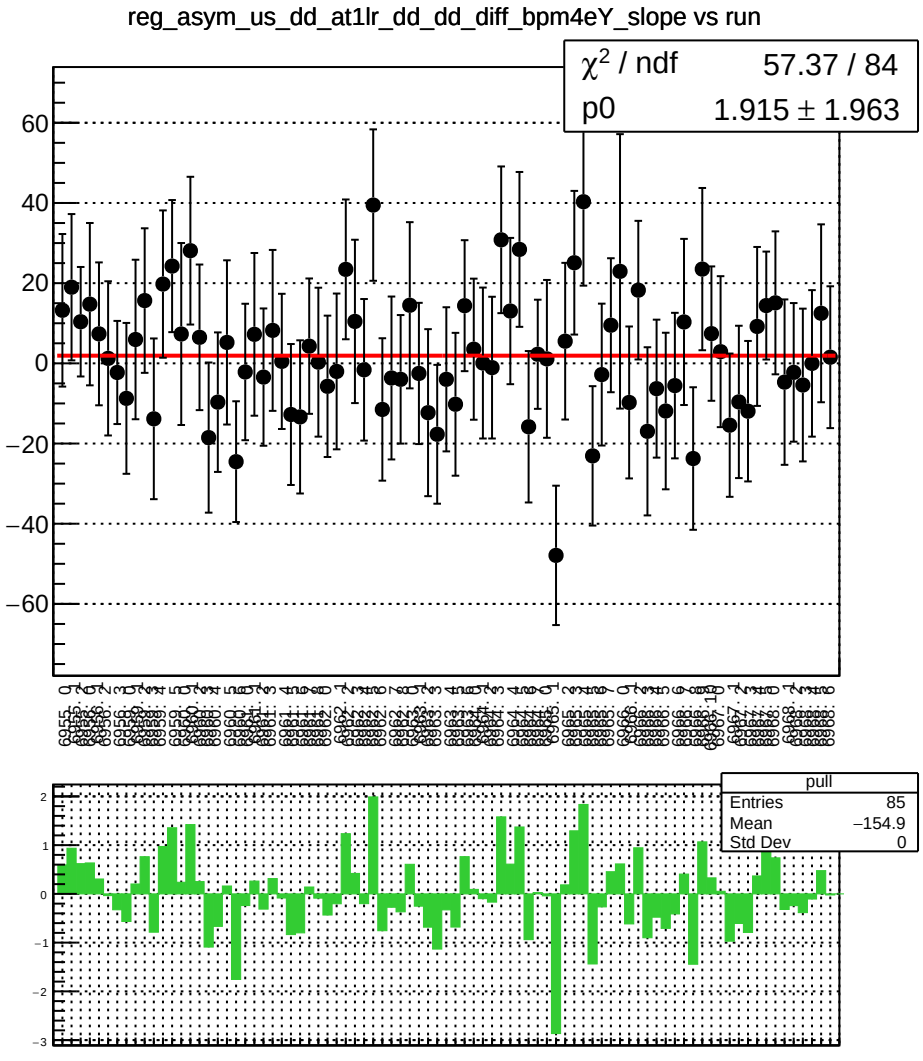

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 93.08 / 84
p0 −3.425 ± 0.07834
pull
Entries 85
Mean −48.92
Std Dev 0

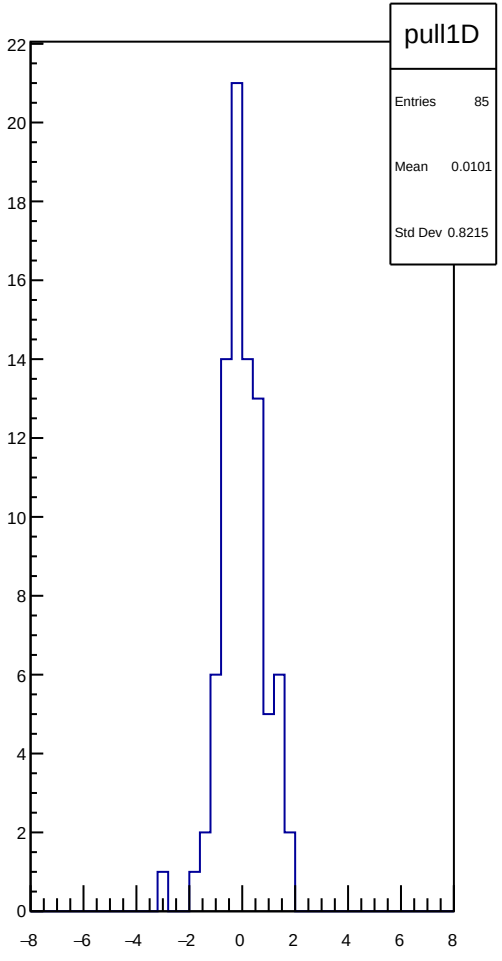

pull1D
Entries 85
Mean 0.01575
Std Dev 1.046

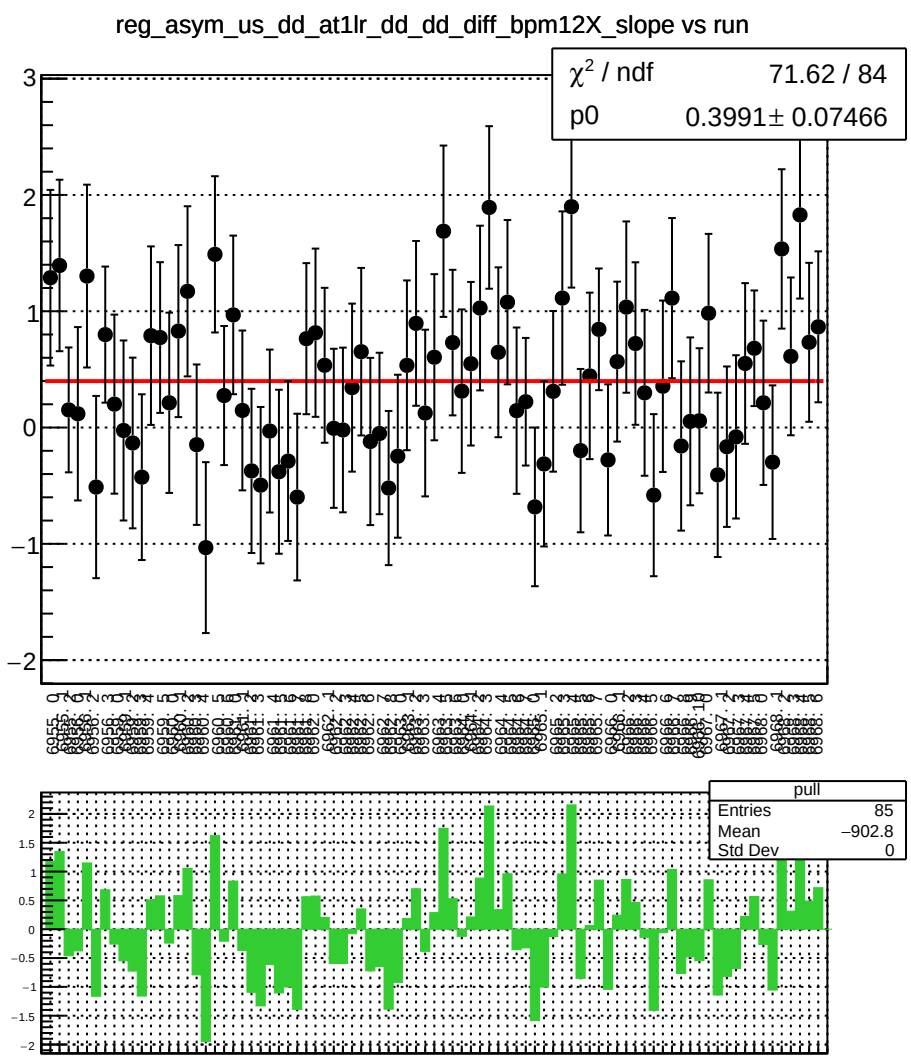

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 59.16 / 84
p0 −17.51 ± 2.536
100
50
0
−50
−100
pull
Entries 85
Mean 117.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01379
Std Dev 0.8342
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

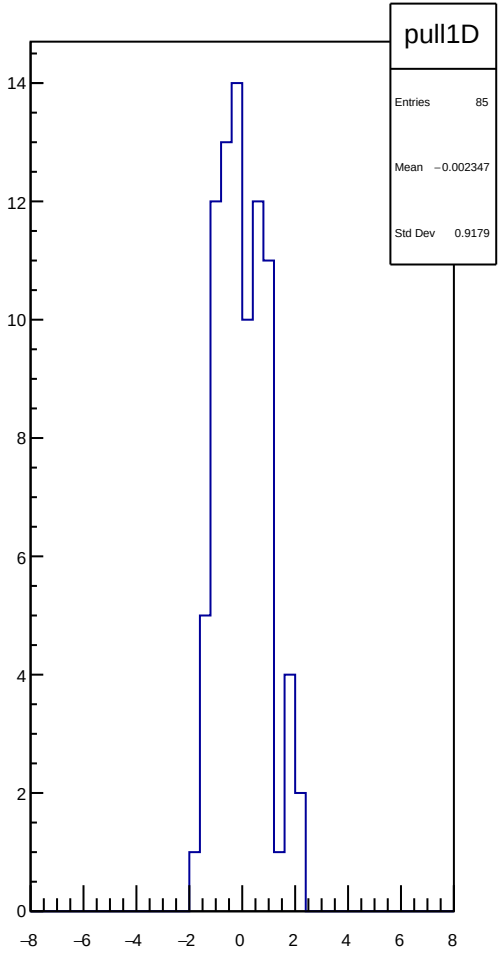

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.73 / 84
p0 −0.62 ± 1.728
pull
Entries 85
Mean −71.72
Std Dev 0
pull1D
Entries 85
Mean −0.01833
Std Dev 0.8239

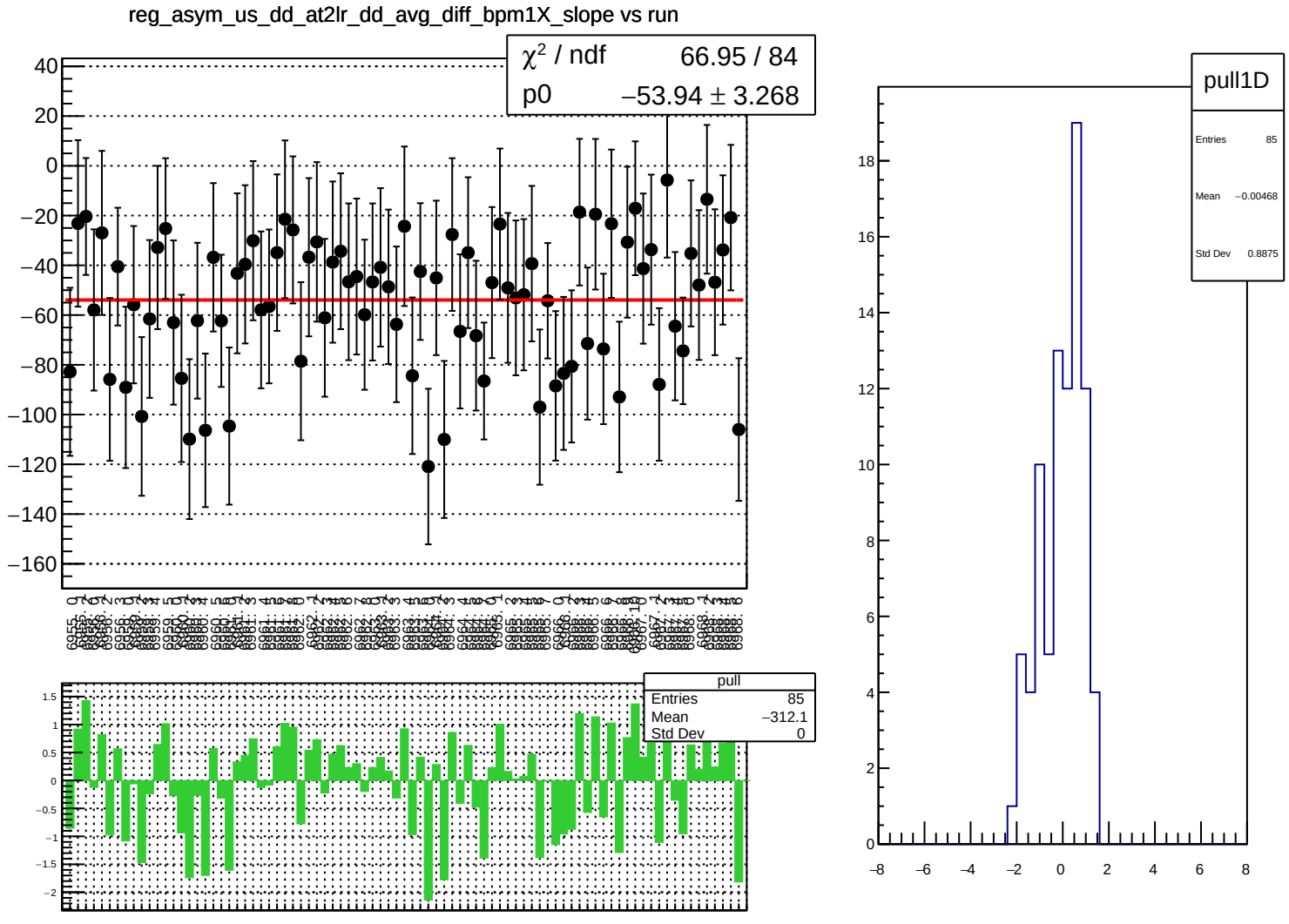

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.22 / 84
p0 −93.89 ± 2.341
pull
Entries 85
Mean 85.1
Std Dev 0
pull1D
Entries 85
Mean 0.01489
Std Dev 0.8416

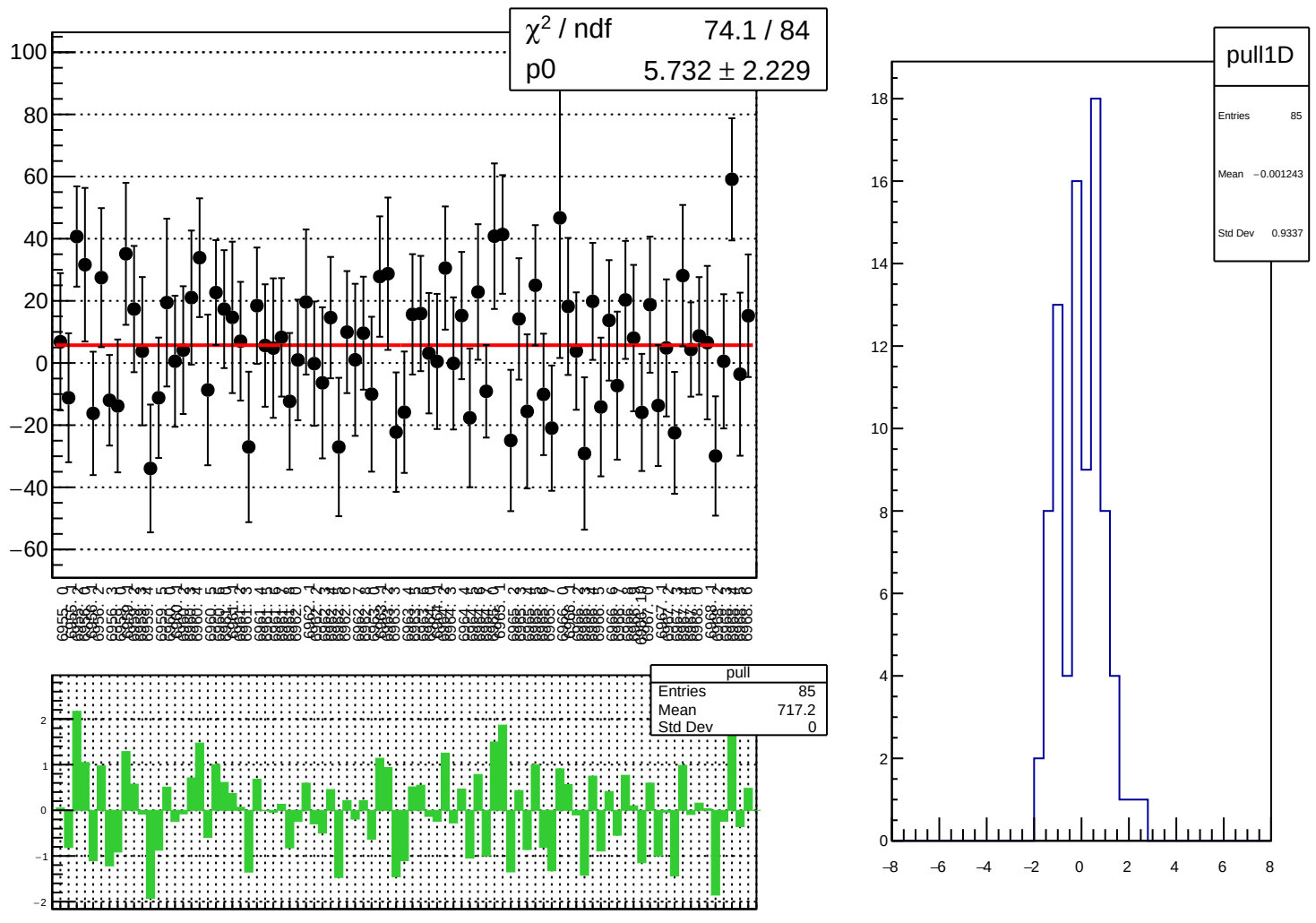

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.37 / 84
p0 1.915 ± 1.963
pull
Entries 85
Mean −154.9
Std Dev 0

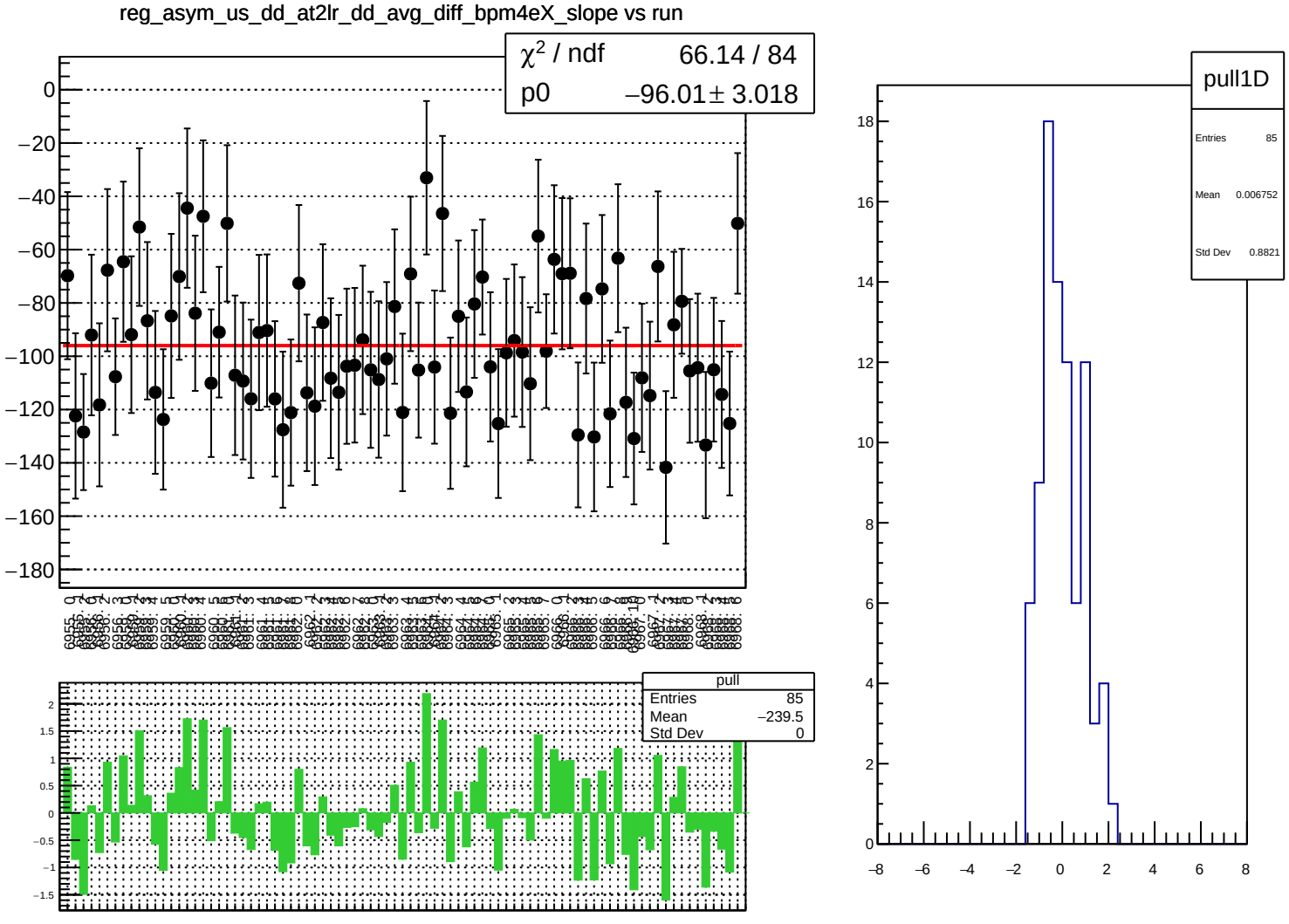

pull1D
Entries 85
Mean 0.0101
Std Dev 0.8215

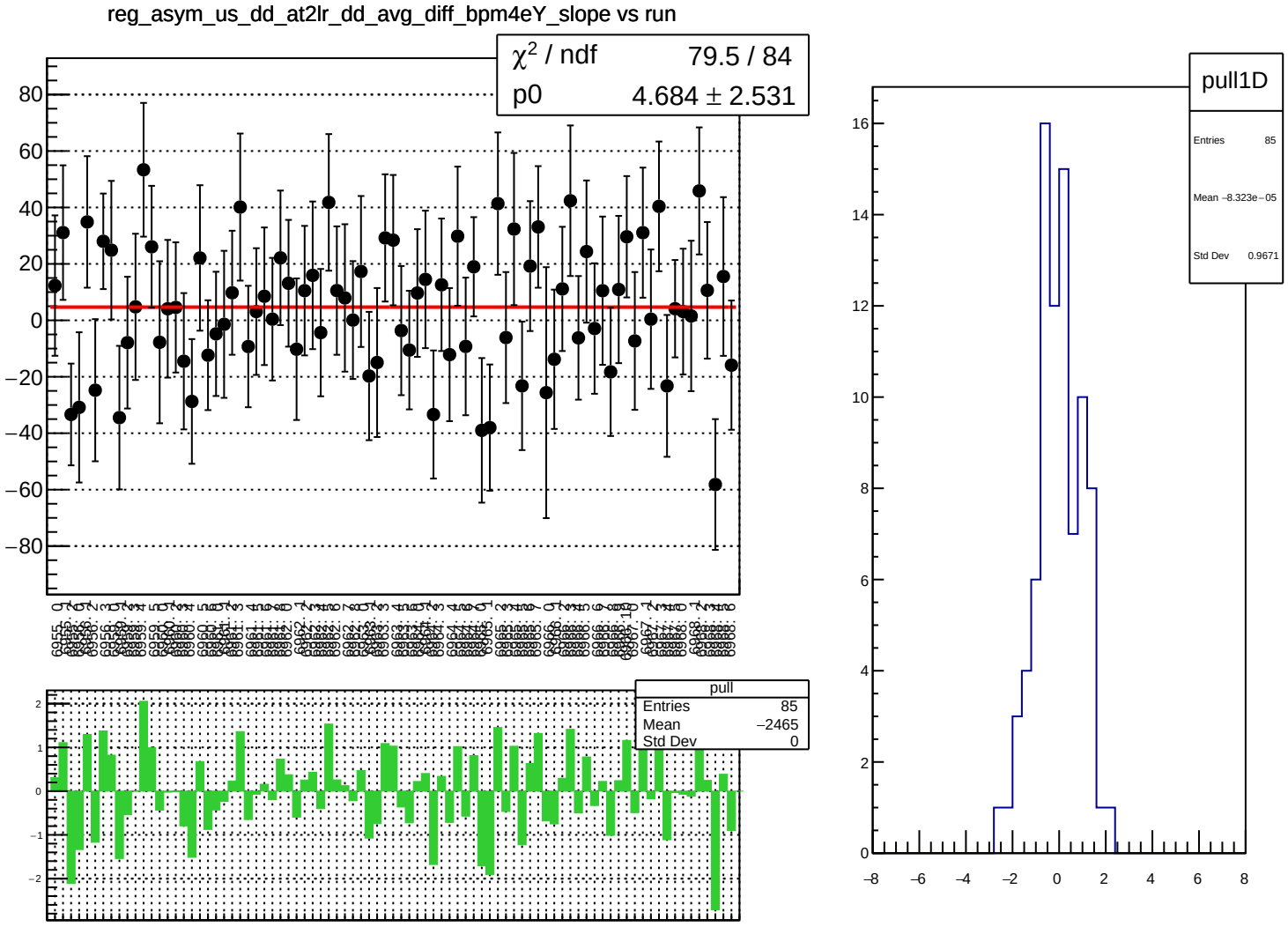

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 71.62 / 84
p0 0.3991± 0.07466
pull
Entries 85
Mean −902.8
Std Dev 0

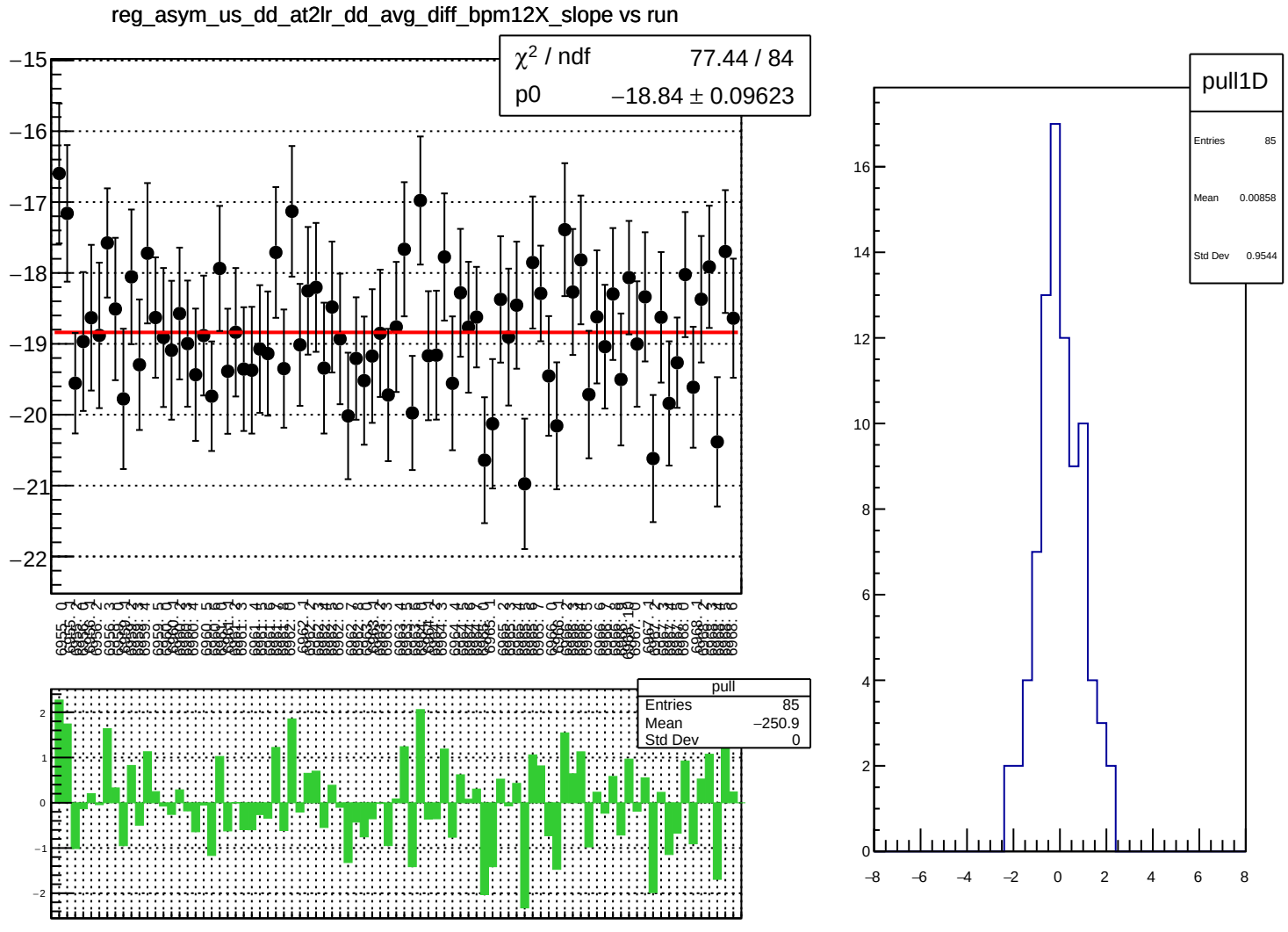

pull1D
Entries 85
Mean −0.002347
Std Dev 0.9179

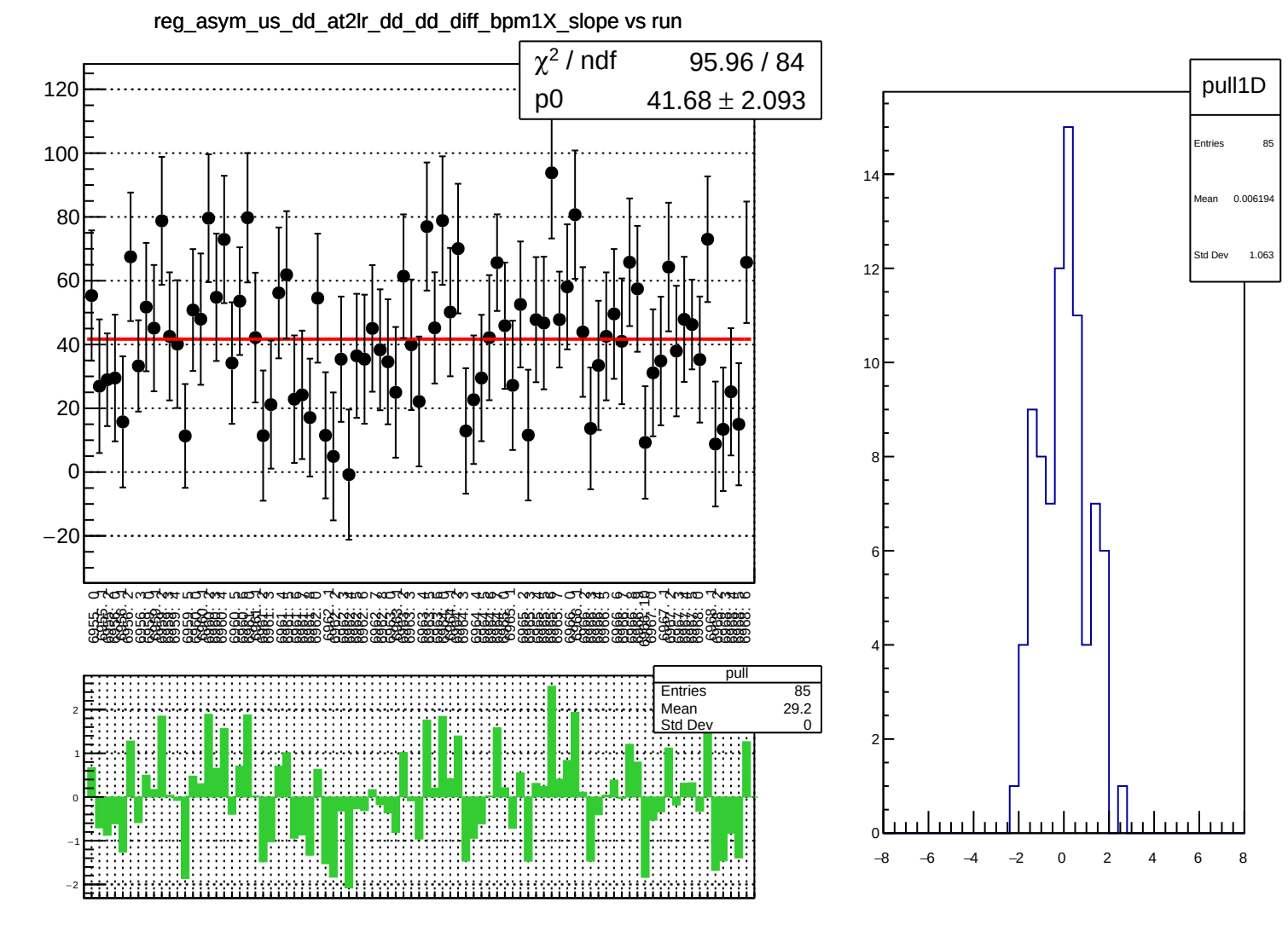

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 66.95 / 84
p0 −53.94 ± 3.268
pull
Entries 85
Mean −312.1
Std Dev 0
pull1D
Entries 85
Mean −0.00468
Std Dev 0.8875

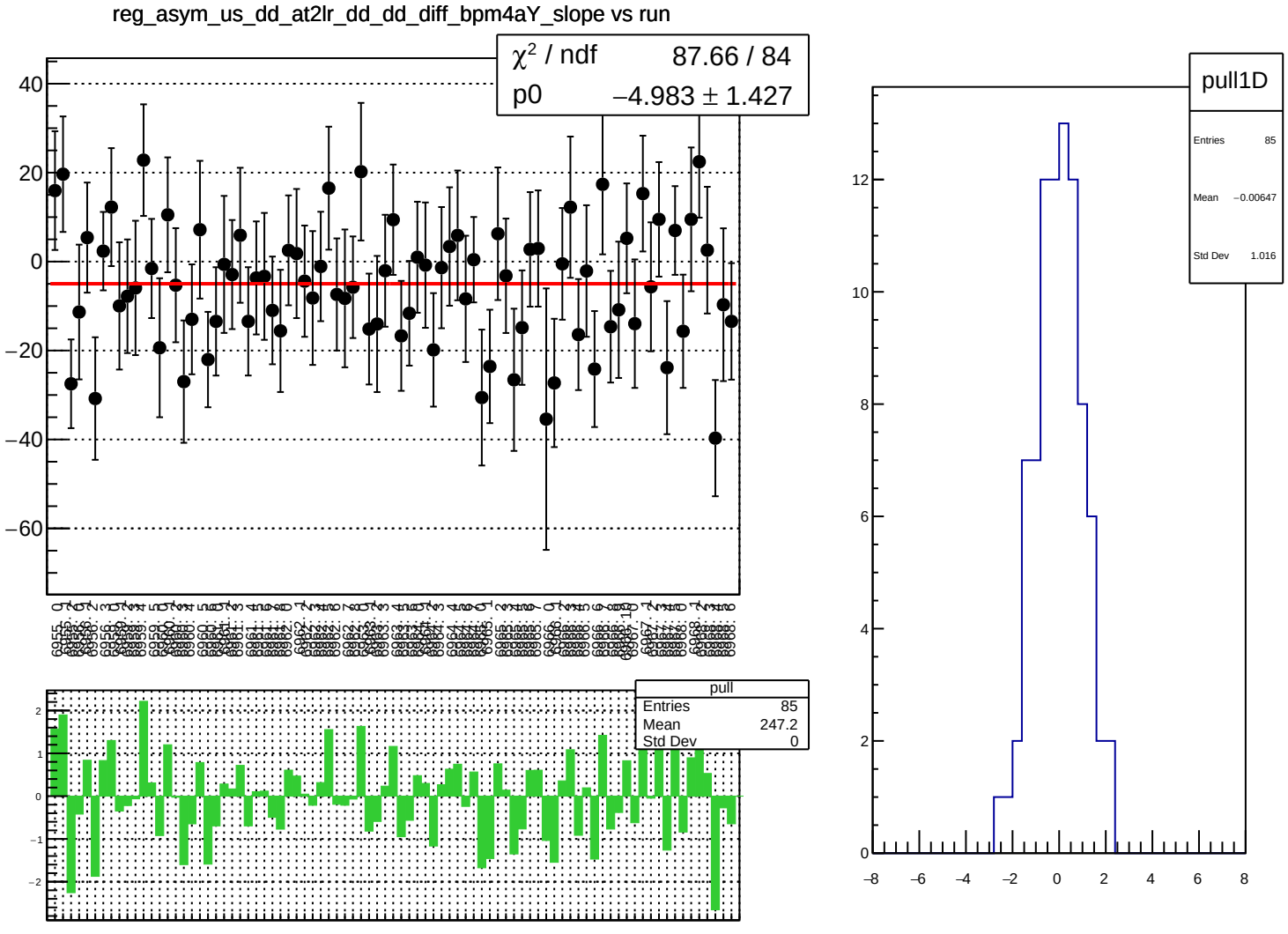

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.1 / 84
p0 5.732 ± 2.229
pull
Entries 85
Mean 717.2
Std Dev 0
pull1D
Entries 85
Mean −0.001243
Std Dev 0.9337

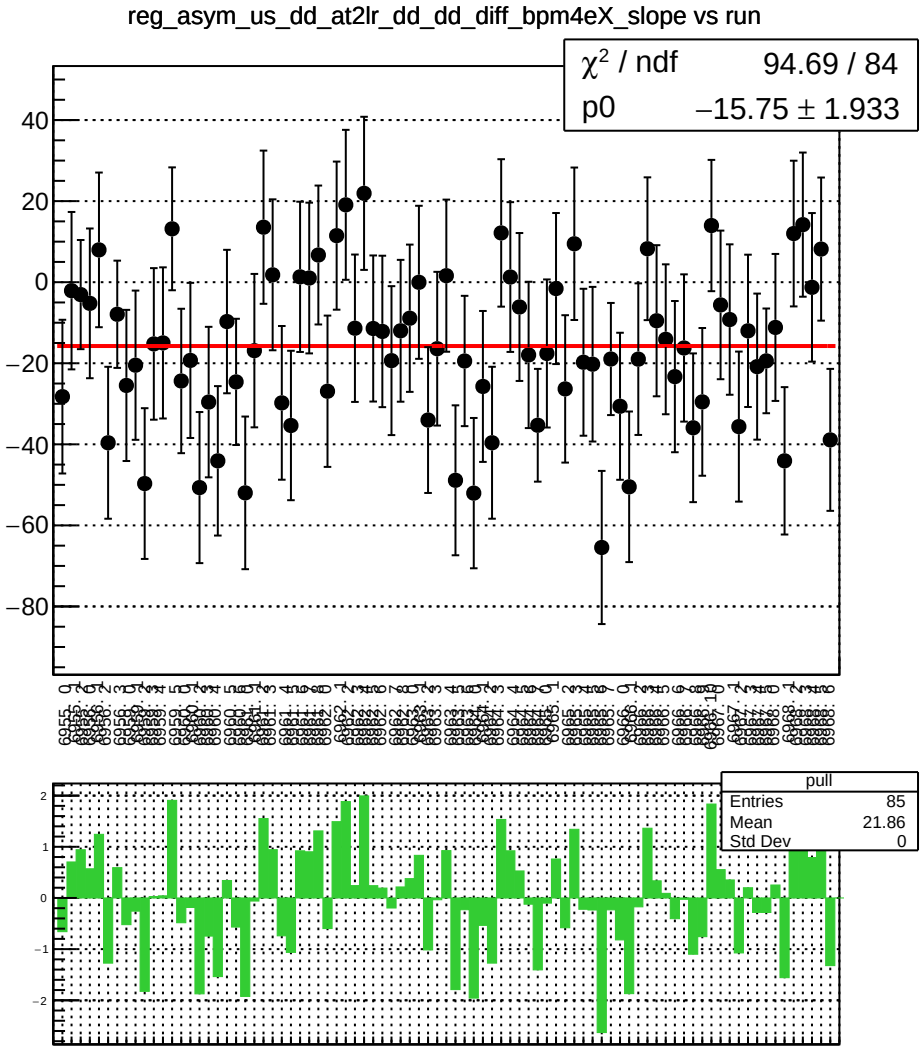

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.14 / 84
p0 −96.01 ± 3.018
pull
Entries 85
Mean −239.5
Std Dev 0
pull1D
Entries 85
Mean 0.006752
Std Dev 0.8821

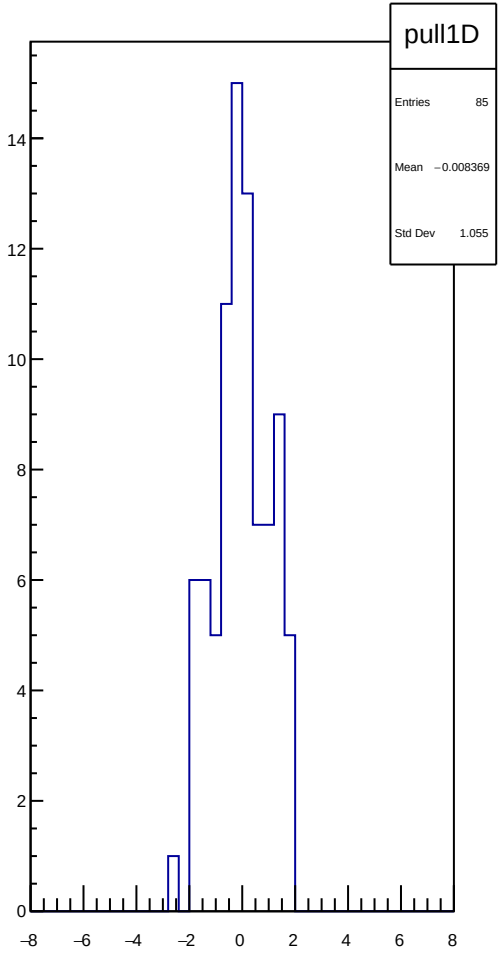

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.5 / 84
p0 4.684 ± 2.531
pull
Entries 85
Mean −2465
Std Dev 0
pull1D
Entries 85
Mean −8.323e−05
Std Dev 0.9671

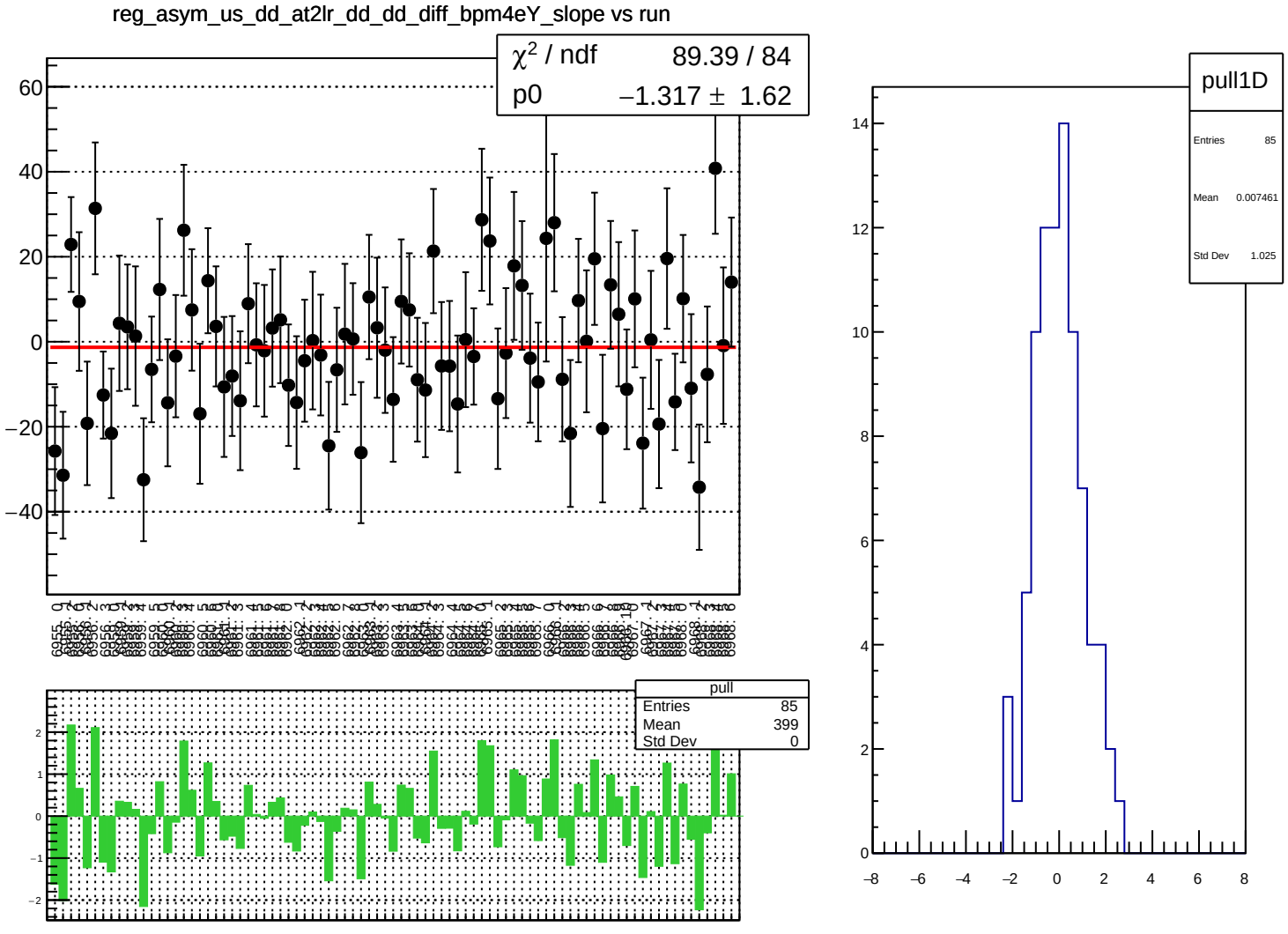

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 77.44 / 84
p0 −18.84 ± 0.09623
pull
Entries 85
Mean −250.9
Std Dev 0
pull1D
Entries 85
Mean 0.00858
Std Dev 0.9544

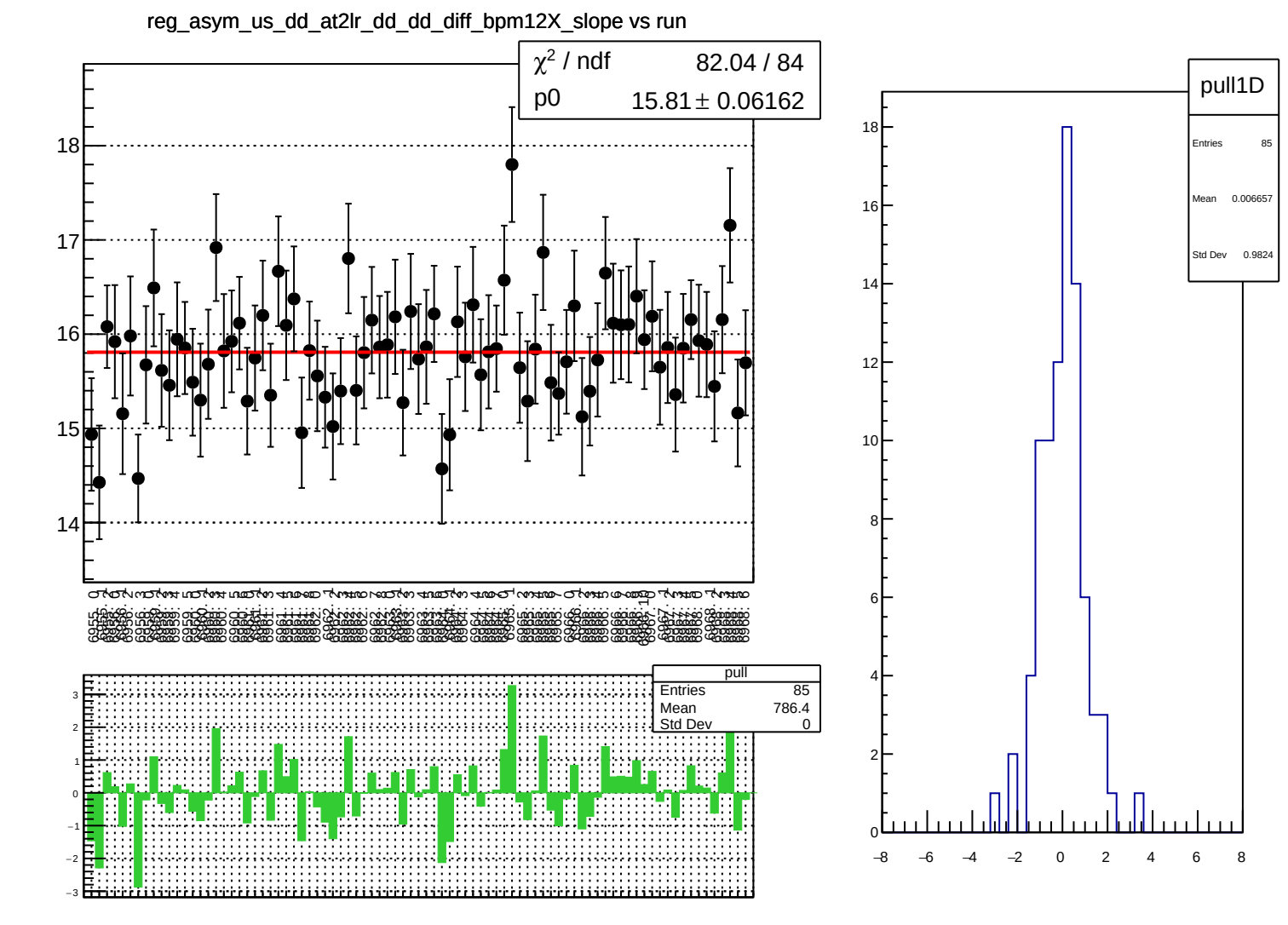

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 95.96 / 84
p0 41.68 ± 2.093
pull
Entries 85
Mean 29.2
Std Dev 0
pull1D
Entries 85
Mean 0.006194
Std Dev 1.063

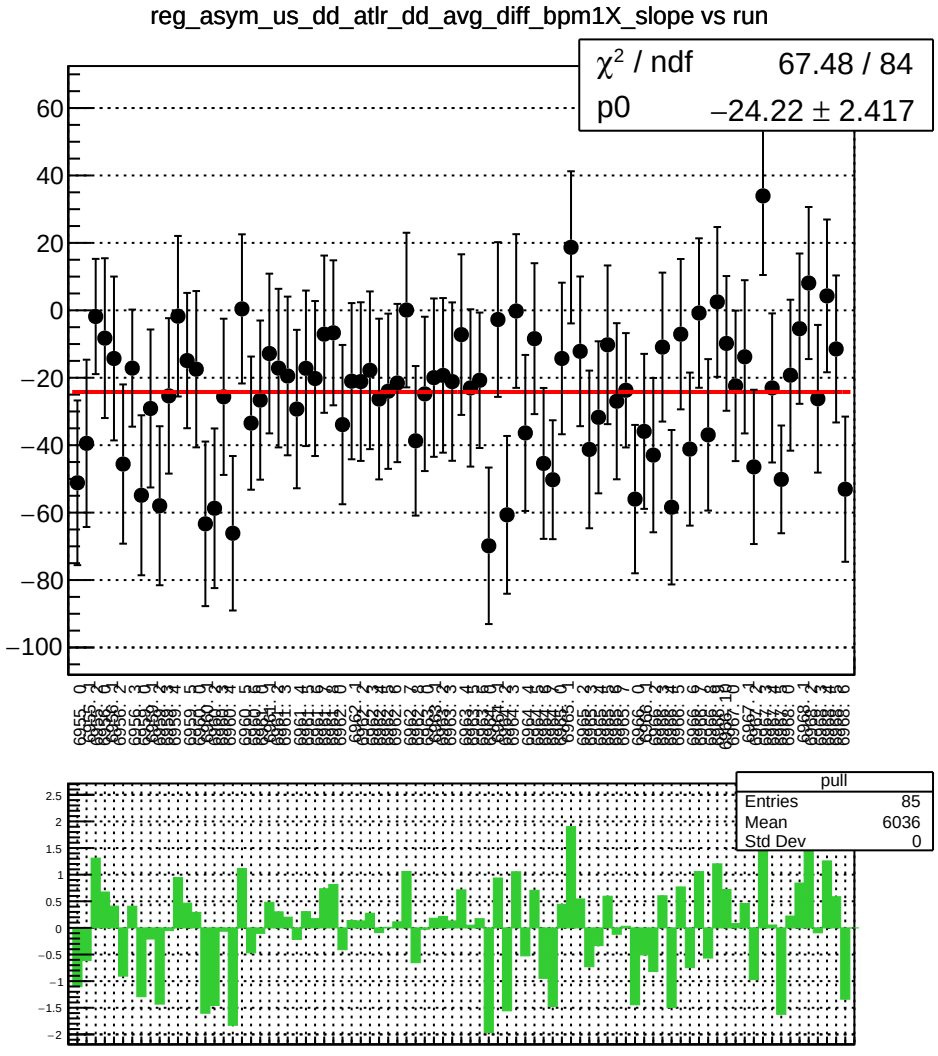

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 87.66 / 84
p0 −4.983 ± 1.427
pull
Entries 85
Mean 247.2
Std Dev 0
pull1D
Entries 85
Mean −0.00647
Std Dev 1.016

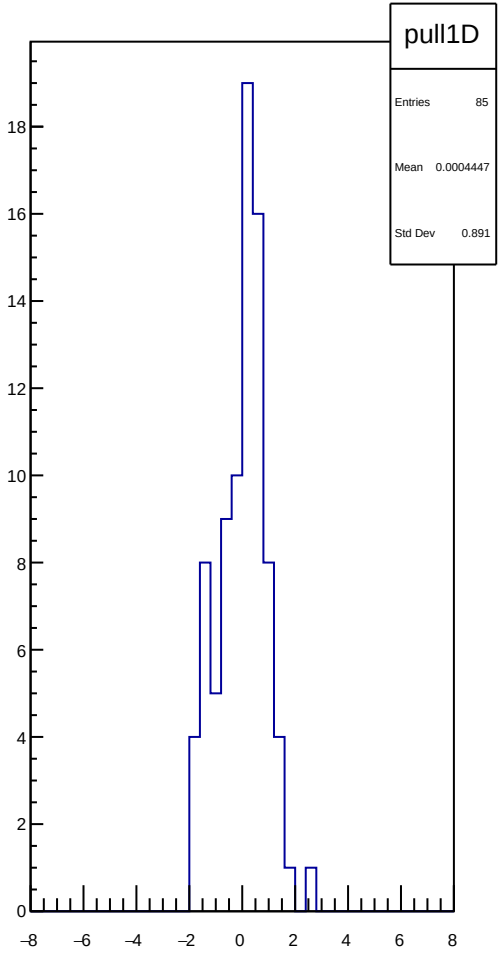

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 94.69 / 84
p0 −15.75 ± 1.933
pull
Entries 85
Mean 21.86
Std Dev 0

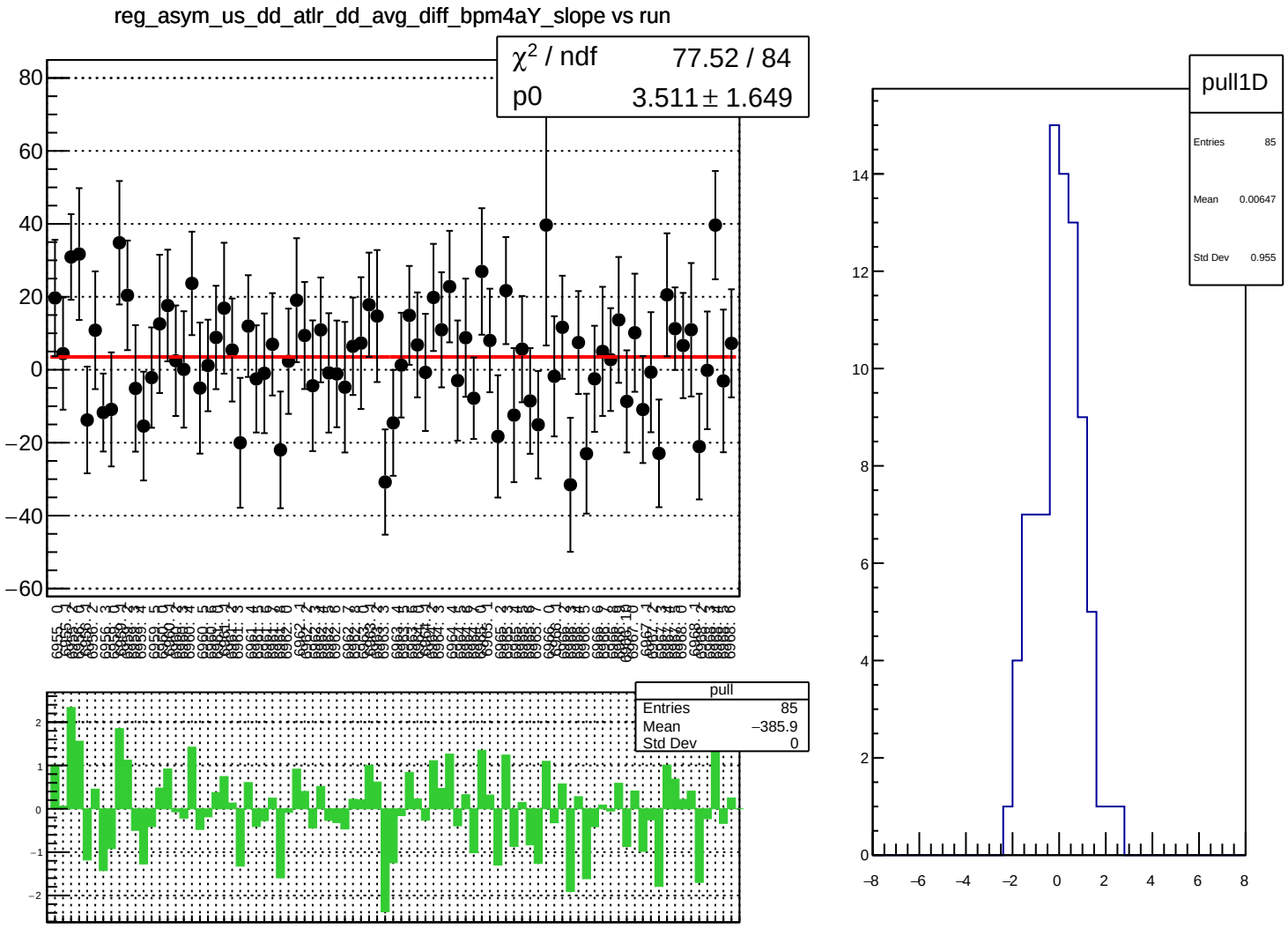

pull1D
Entries 85
Mean −0.008369
Std Dev 1.055

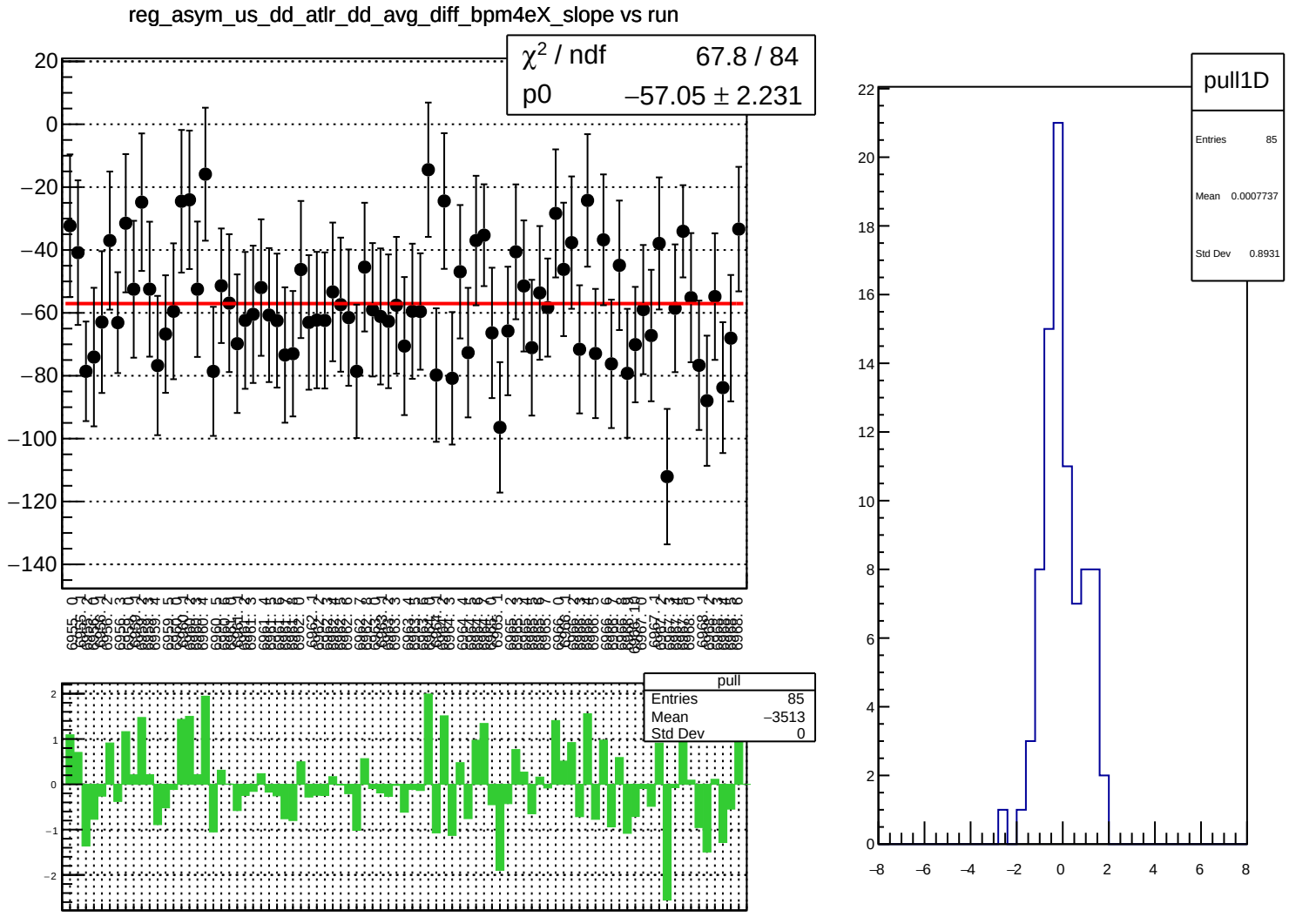

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.39 / 84
p0 −1.317 ± 1.62
pull
Entries 85
Mean 399
Std Dev 0
pull1D
Entries 85
Mean 0.007461
Std Dev 1.025

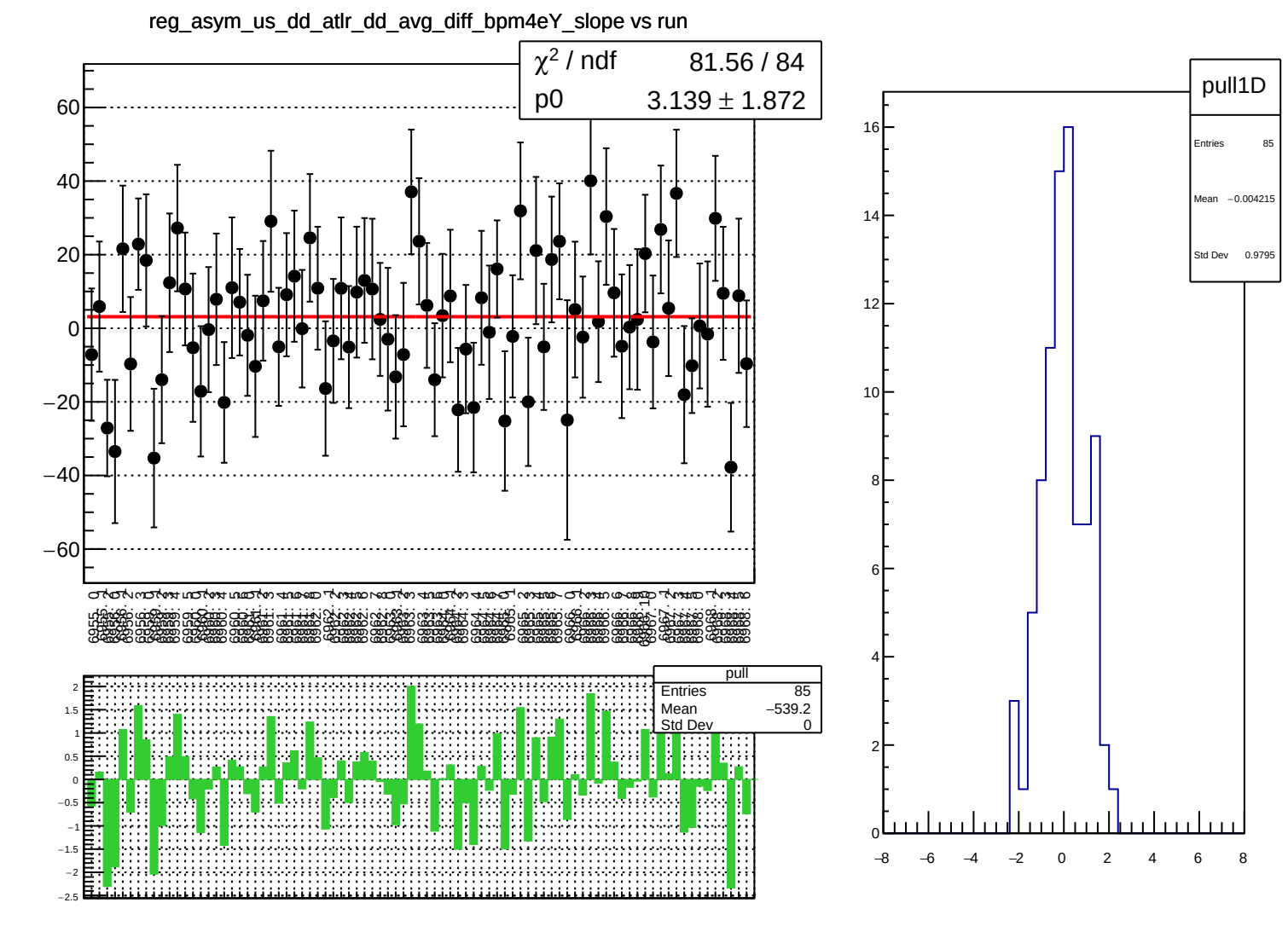

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 82.04 / 84
p0 15.81 ± 0.06162
pull
Entries 85
Mean 786.4
Std Dev 0
pull1D
Entries 85
Mean 0.006657
Std Dev 0.9824

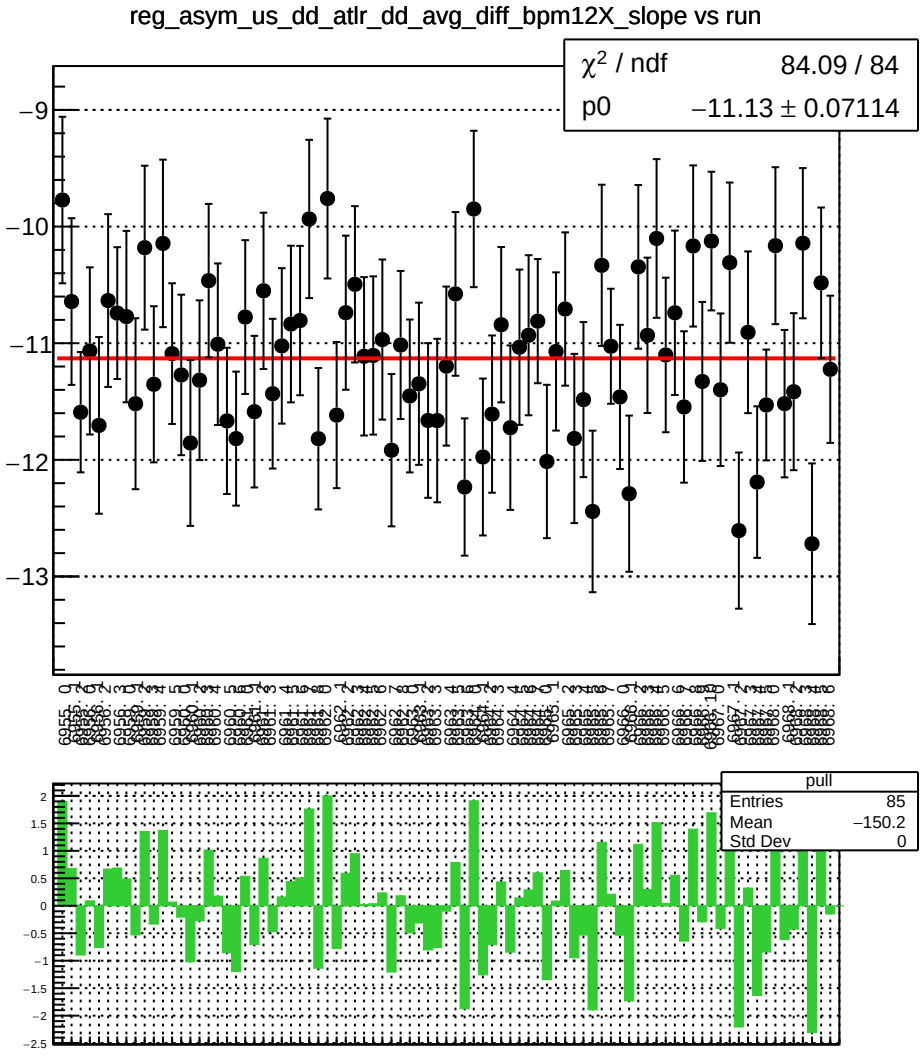

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 67.48 / 84
p0 −24.22 ± 2.417
pull
Entries 85
Mean 6036
Std Dev 0

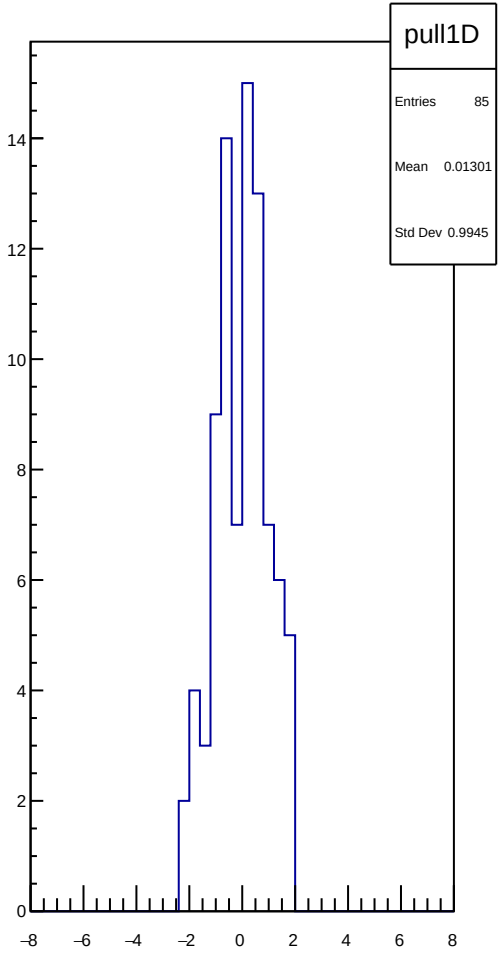

pull1D
Entries 85
Mean 0.0004447
Std Dev 0.891

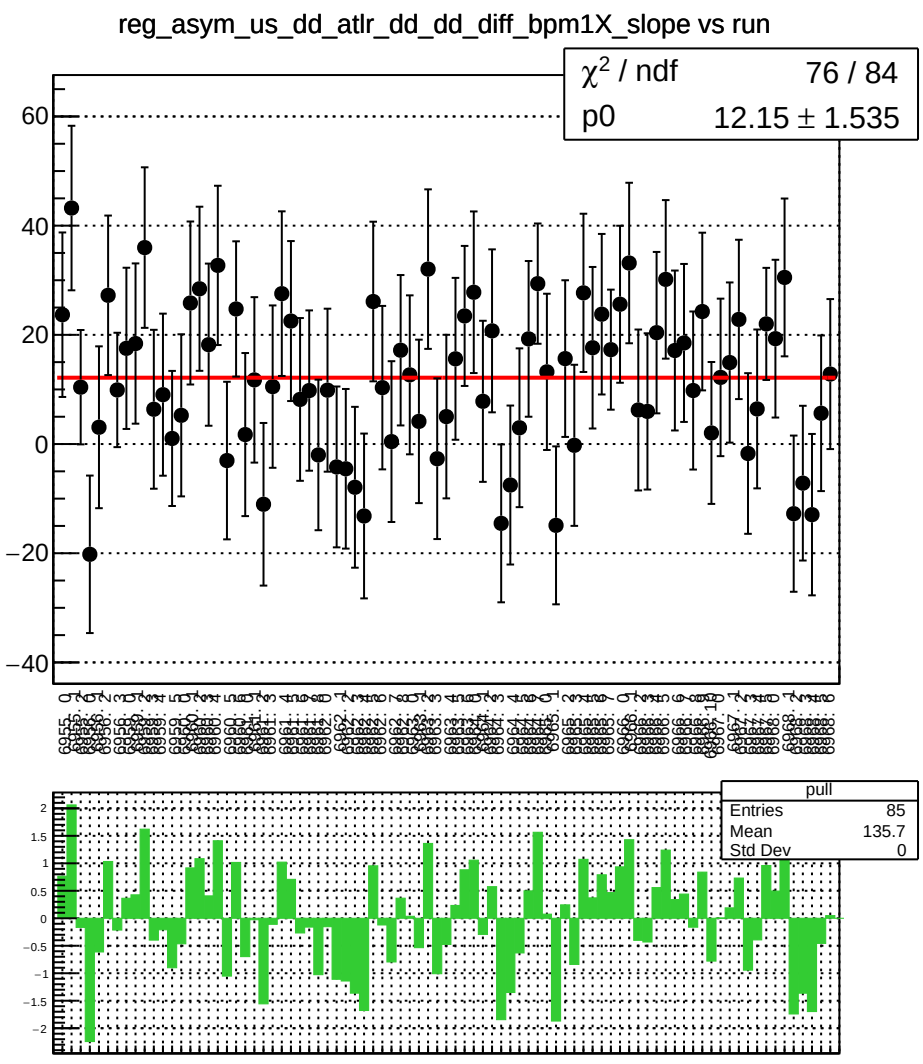

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.52 / 84
p0 3.511 ± 1.649
pull
Entries 85
Mean −385.9
Std Dev 0
pull1D
Entries 85
Mean 0.00647
Std Dev 0.955

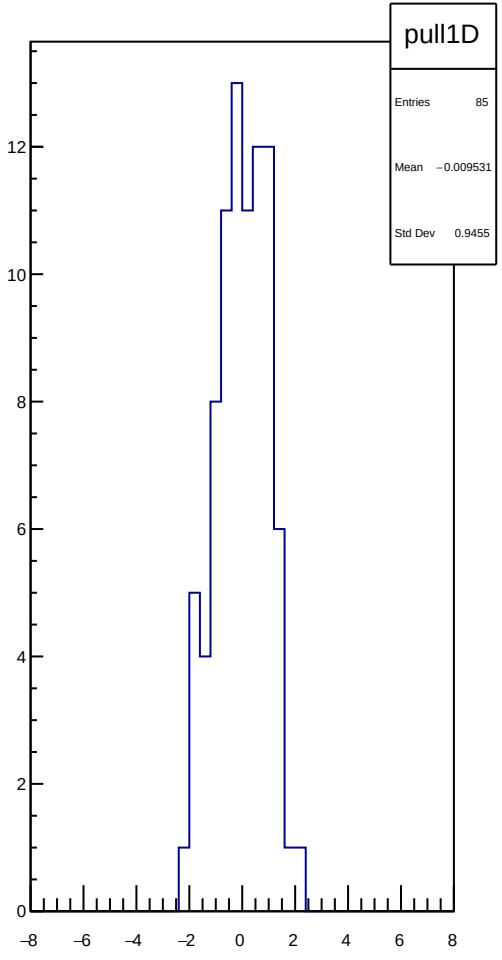

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.8 / 84
p0 −57.05 ± 2.231
pull
Entries 85
Mean −3513
Std Dev 0
pull1D
Entries 85
Mean 0.0007737
Std Dev 0.8931

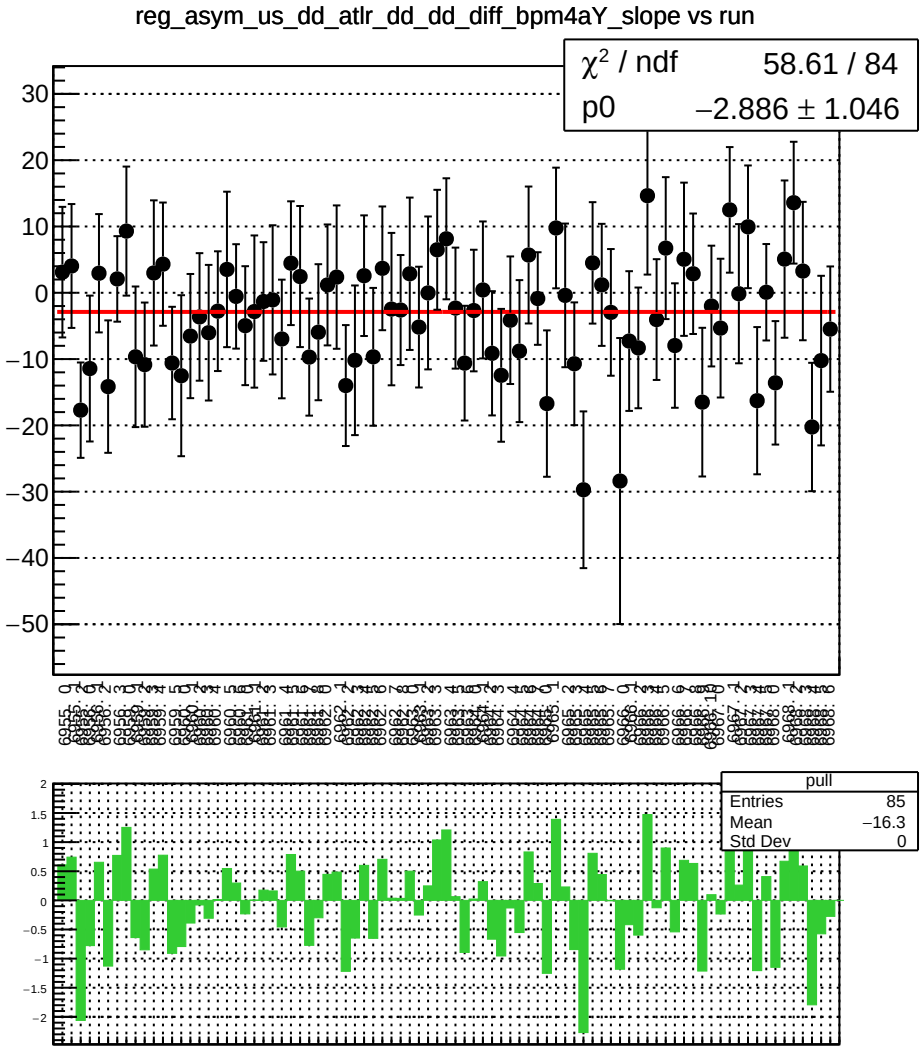

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 81.56 / 84
p0 3.139 ± 1.872
pull
Entries 85
Mean −539.2
Std Dev 0
pull1D
Entries 85
Mean −0.004215
Std Dev 0.9795

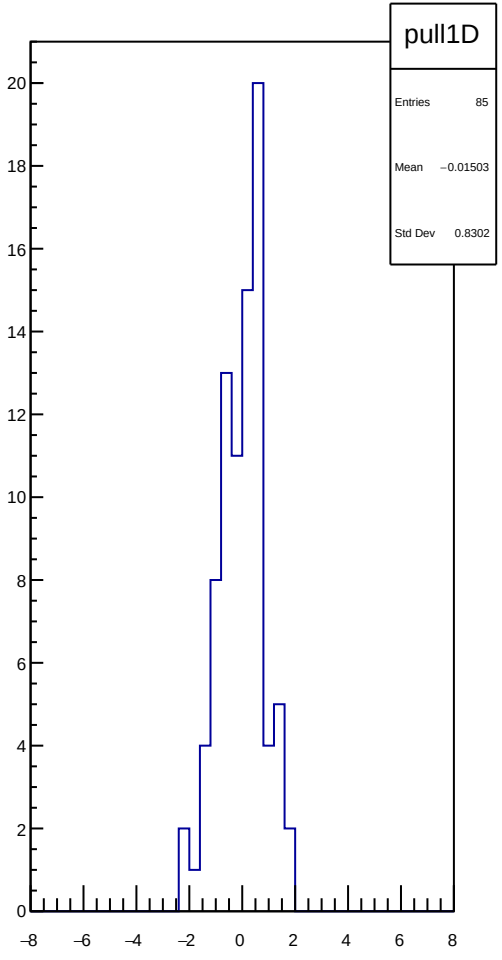

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 84.09 / 84
p0 −11.13 ± 0.07114
pull
Entries 85
Mean −150.2
Std Dev 0

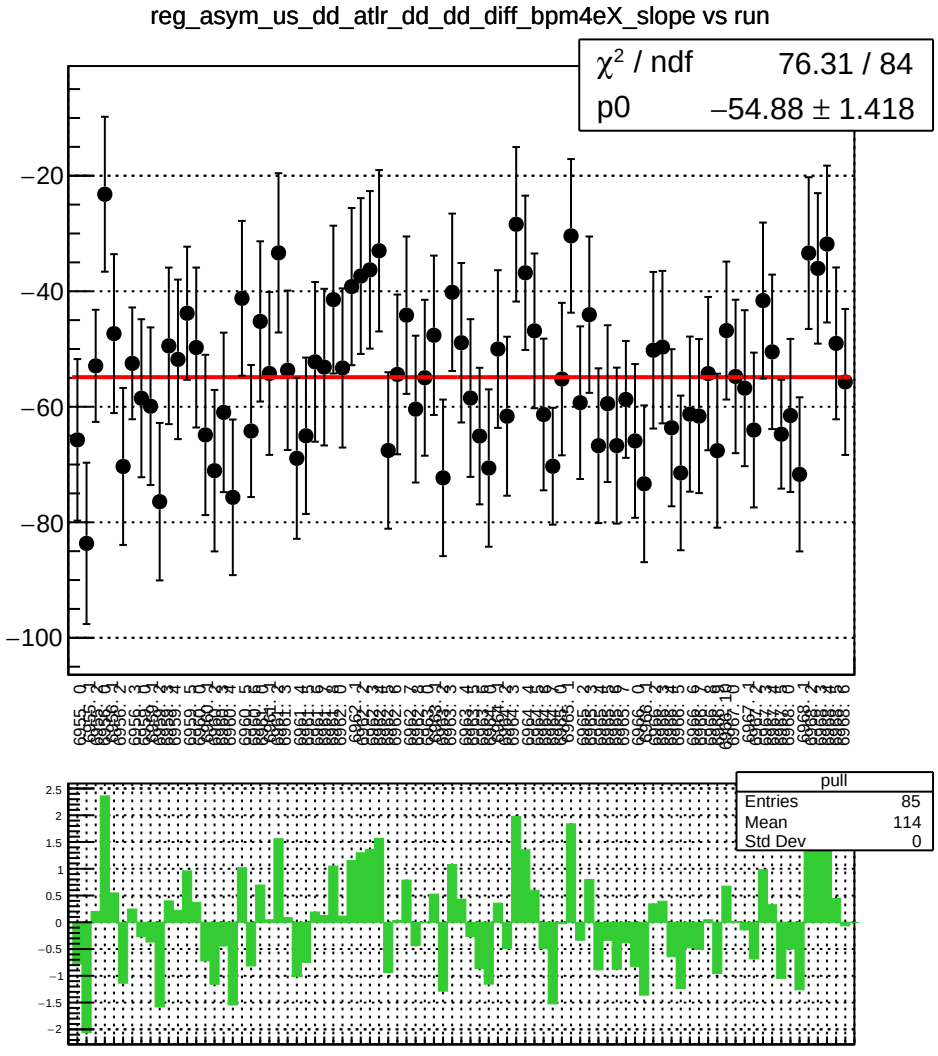

pull1D
Entries 85
Mean 0.01301
Std Dev 0.9945

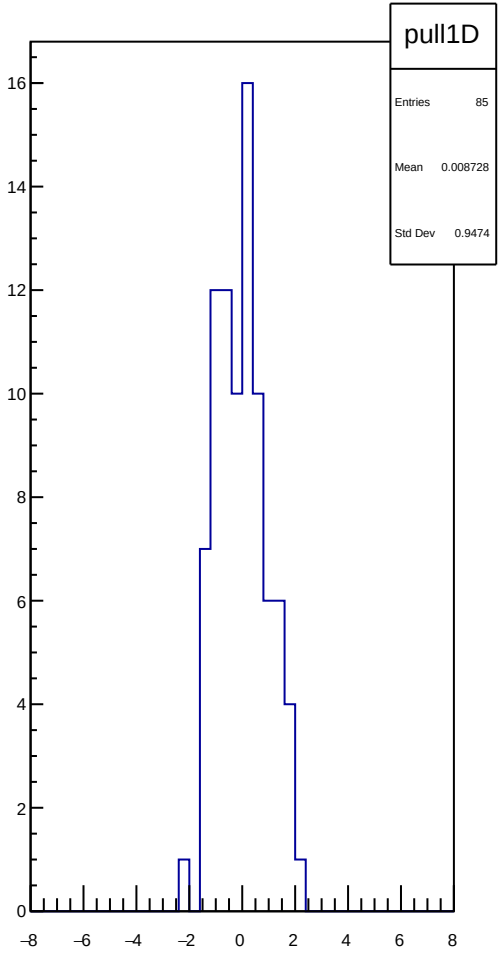

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 76 / 84
p0 12.15 ± 1.535
pull
Entries 85
Mean 135.7
Std Dev 0

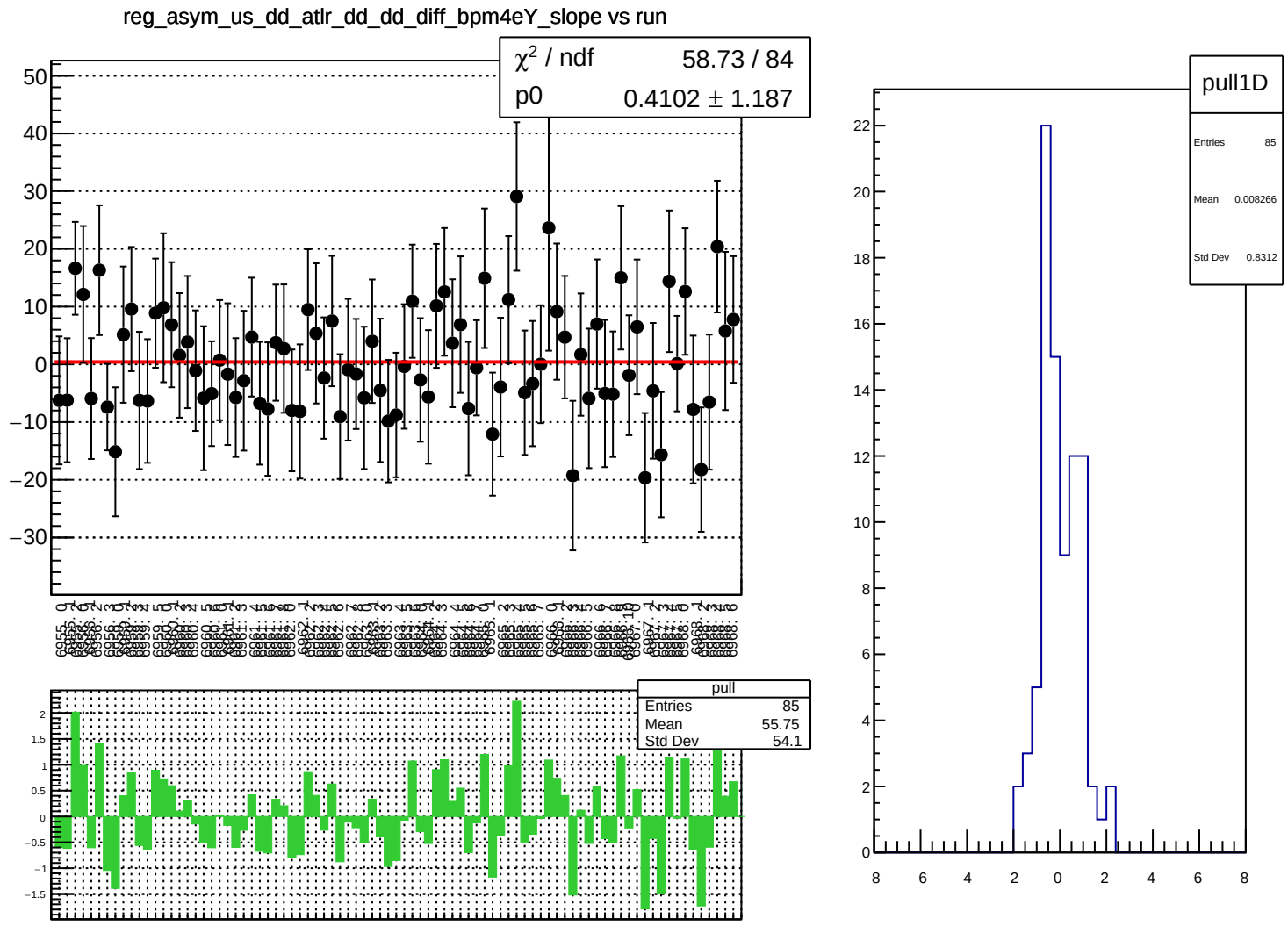

pull1D
Entries 85
Mean −0.009531
Std Dev 0.9455

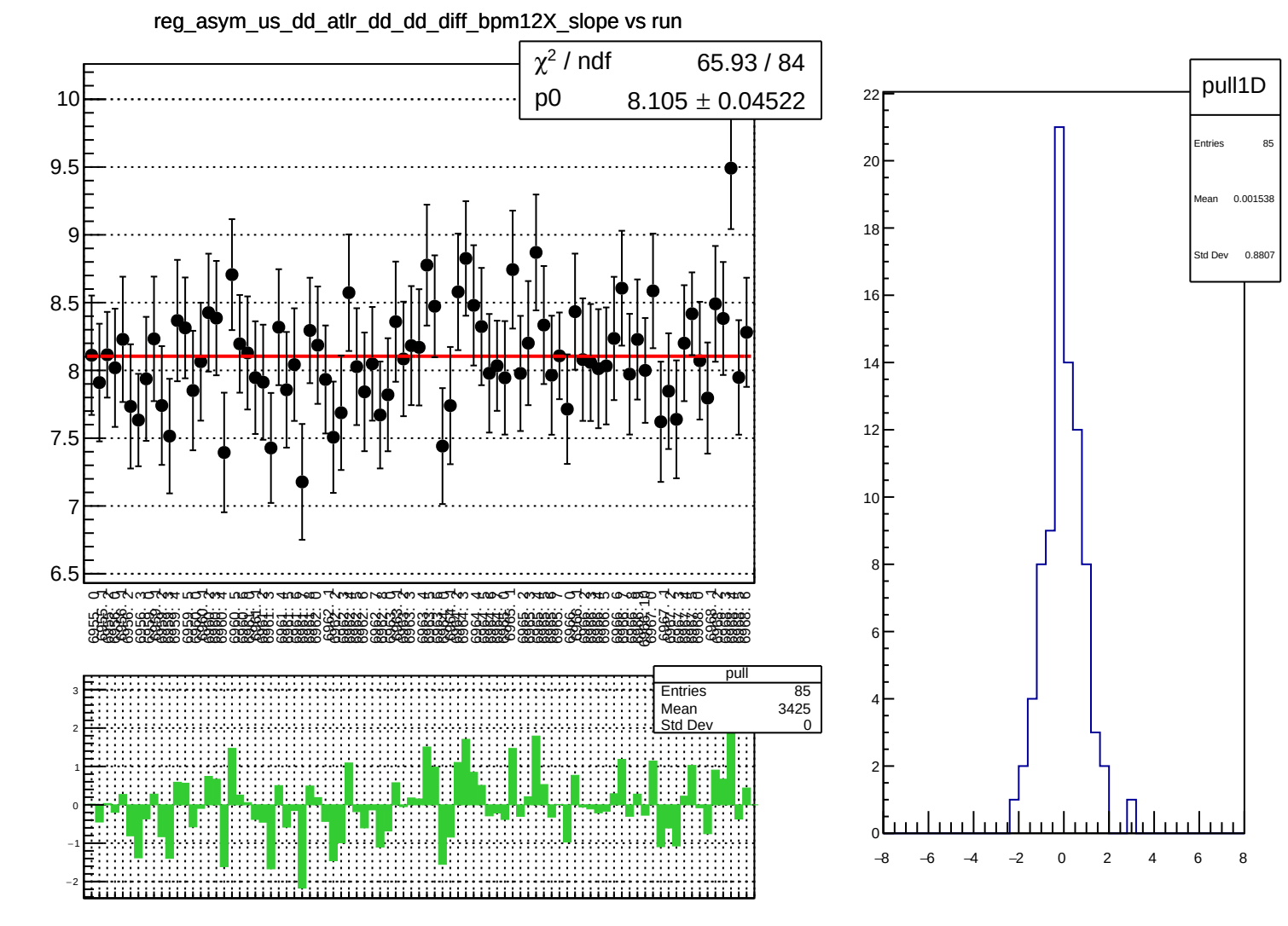

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.61 / 84
p0 −2.886 ± 1.046
pull
Entries 85
Mean −16.3
Std Dev 0

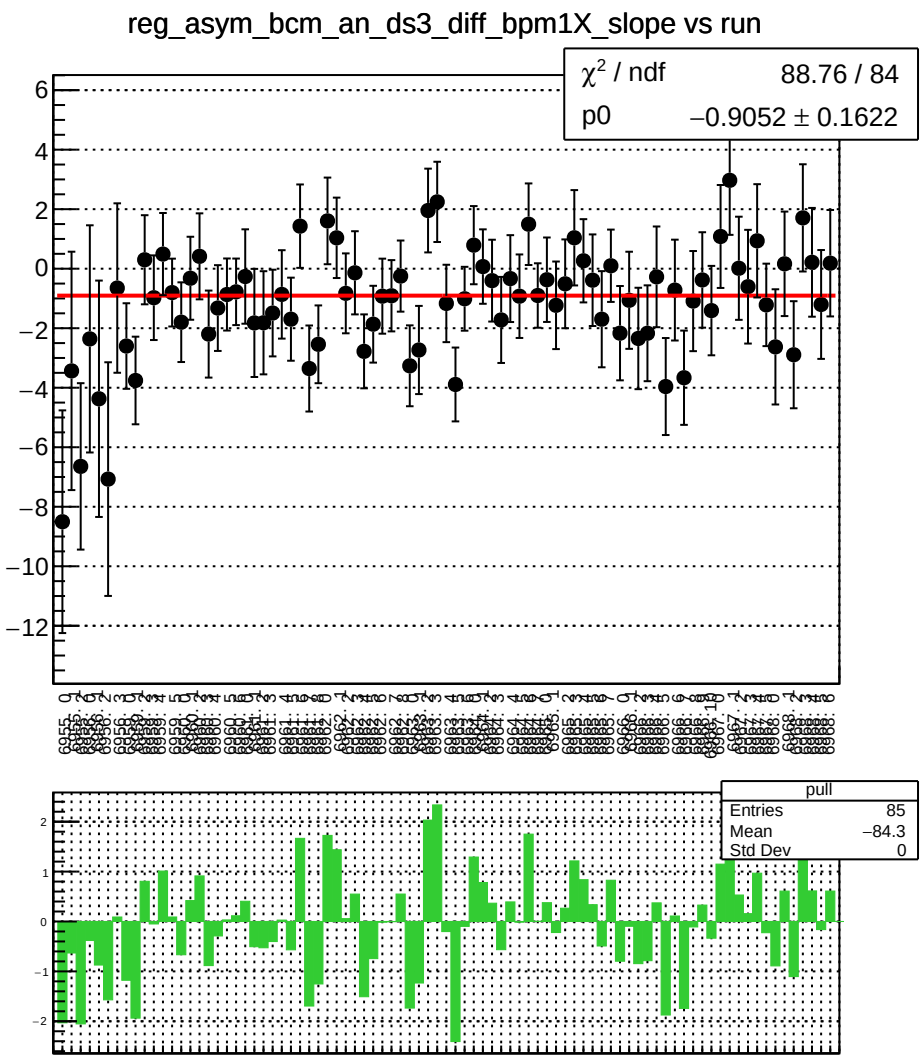

pull1D
Entries 85
Mean −0.01503
Std Dev 0.8302

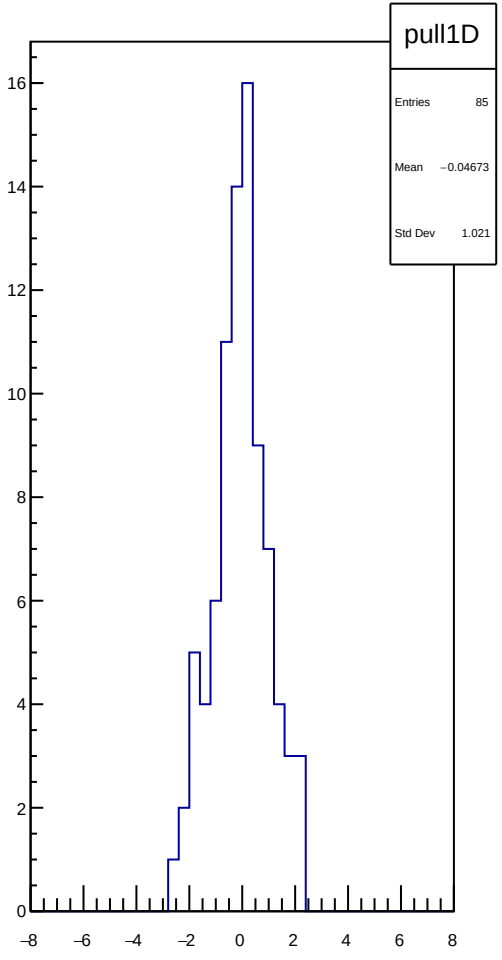

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.31 / 84
p0 −54.88 ± 1.418
pull
Entries 85
Mean 114
Std Dev 0

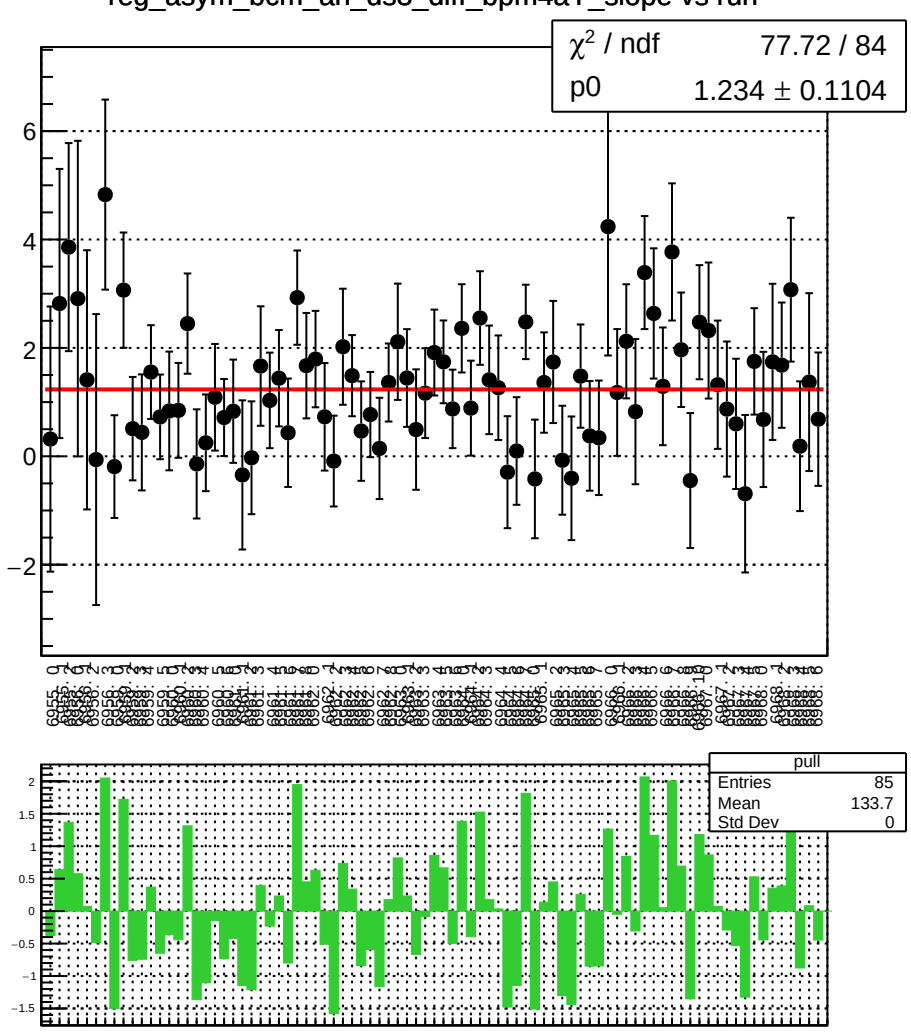

pull1D
Entries 85
Mean 0.008728
Std Dev 0.9474

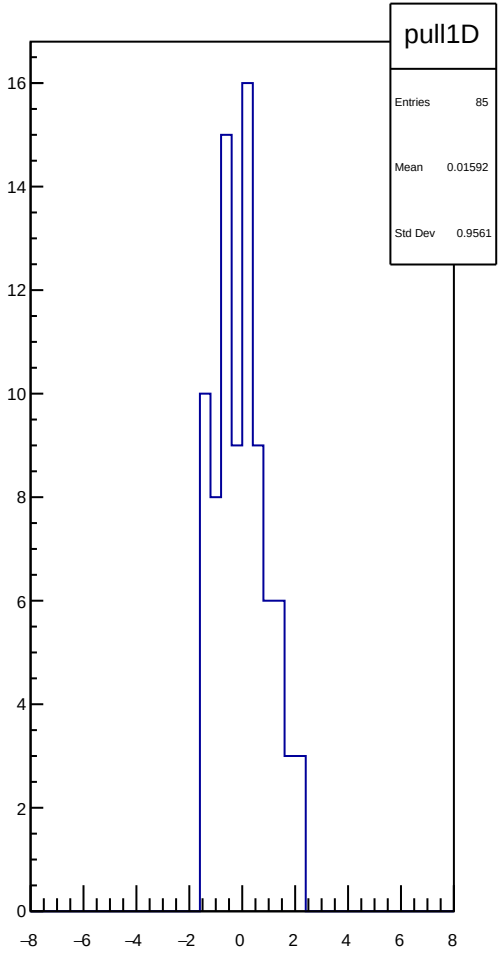

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.73 / 84
p0 0.4102 ± 1.187
pull
Entries 85
Mean 55.75
Std Dev 54.1
pull1D
Entries 85
Mean 0.008266
Std Dev 0.8312

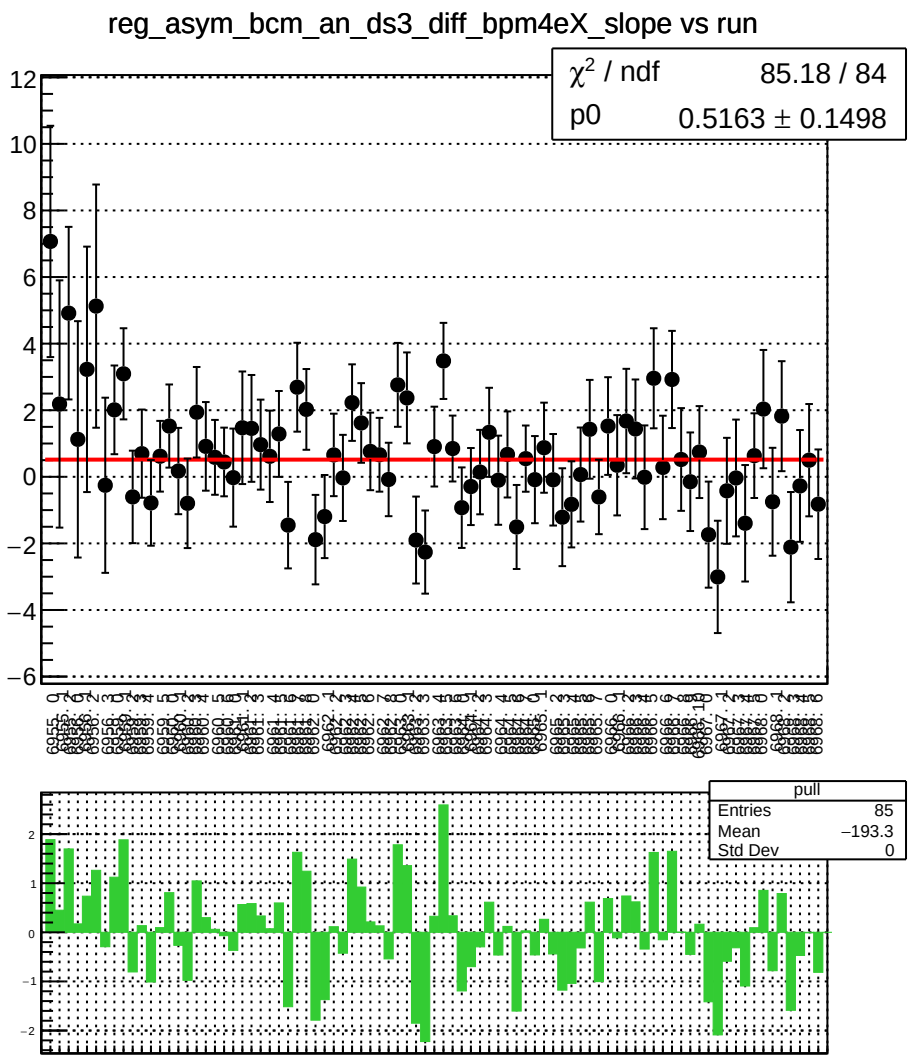

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 65.93 / 84
p0 8.105 ± 0.04522
pull
Entries 85
Mean 3425
Std Dev 0
pull1D
Entries 85
Mean 0.001538
Std Dev 0.8807

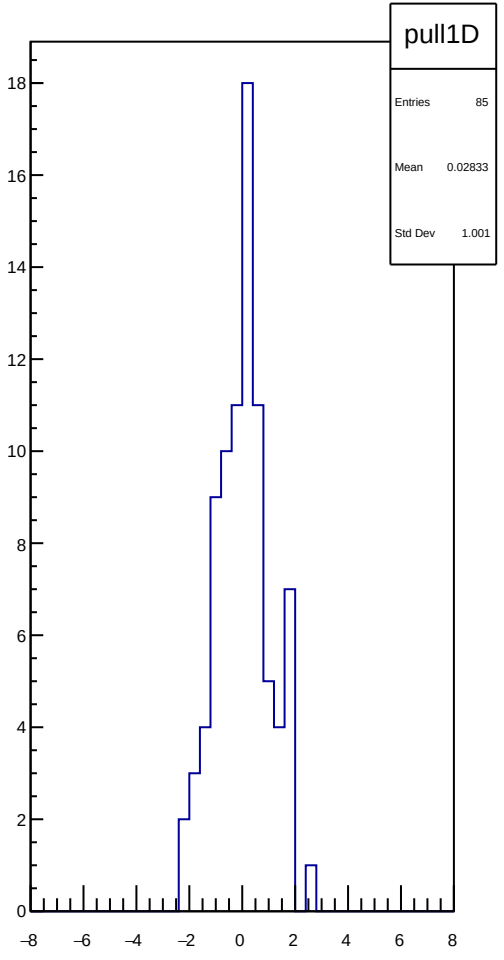

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 88.76 / 84
p0 −0.9052 ± 0.1622
pull
Entries 85
Mean −84.3
Std Dev 0

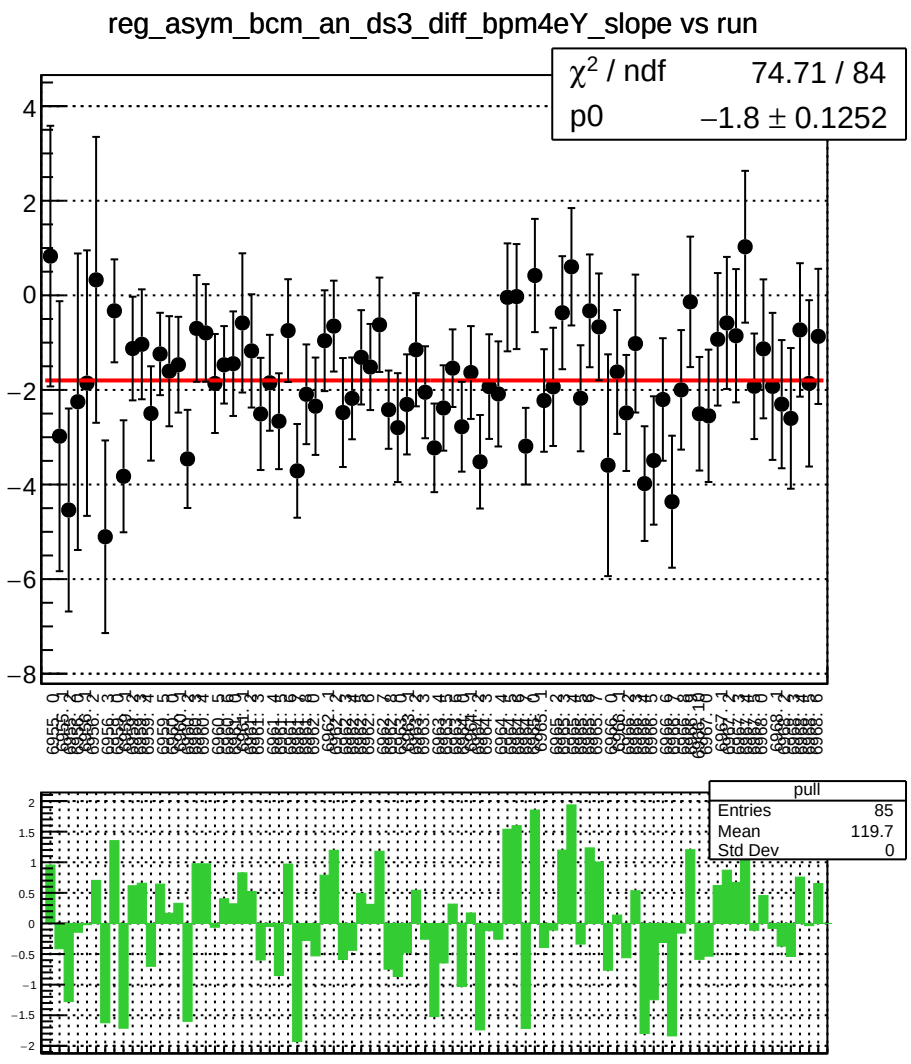

pull1D
Entries 85
Mean −0.04673
Std Dev 1.021

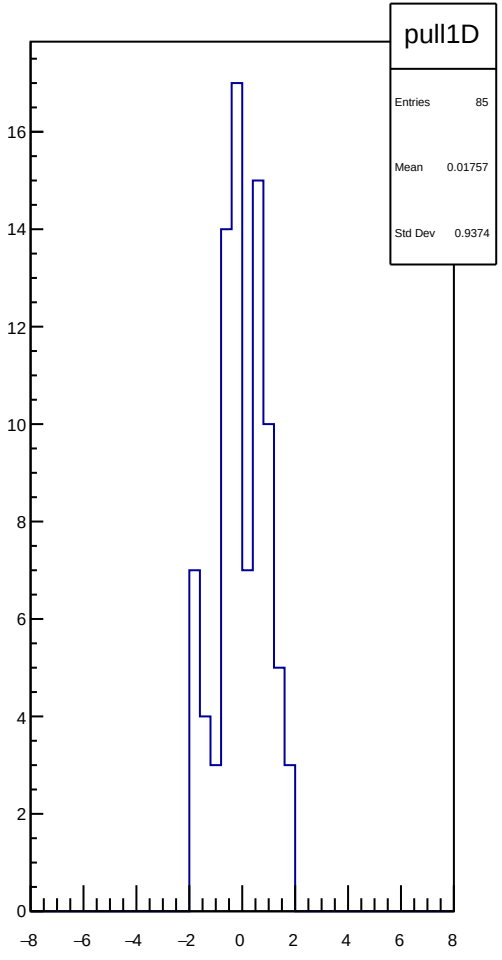

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 77.72 / 84
p0 1.234 ± 0.1104
pull
Entries 85
Mean 133.7
Std Dev 0

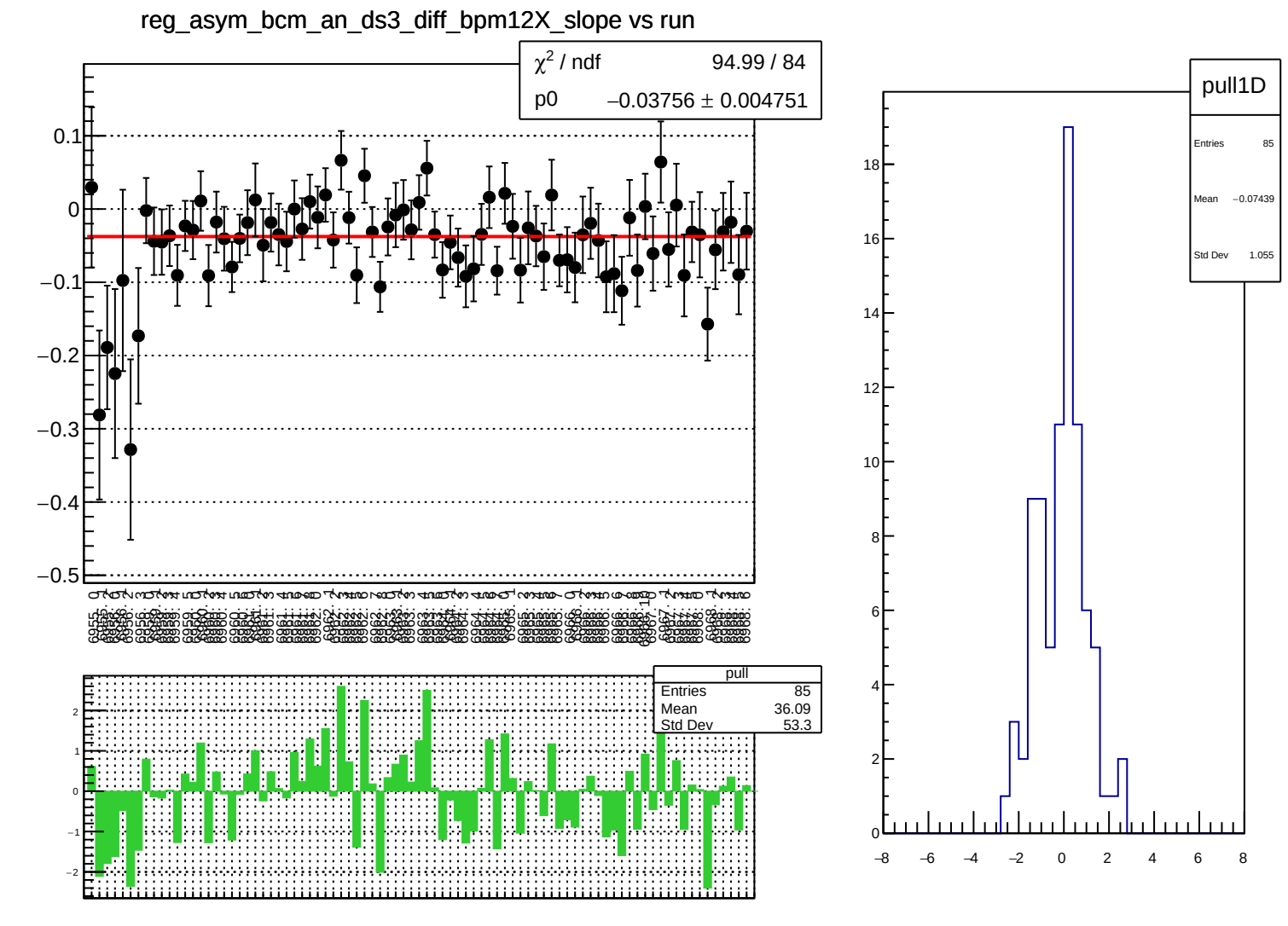

pull1D
Entries 85
Mean 0.01592
Std Dev 0.9561

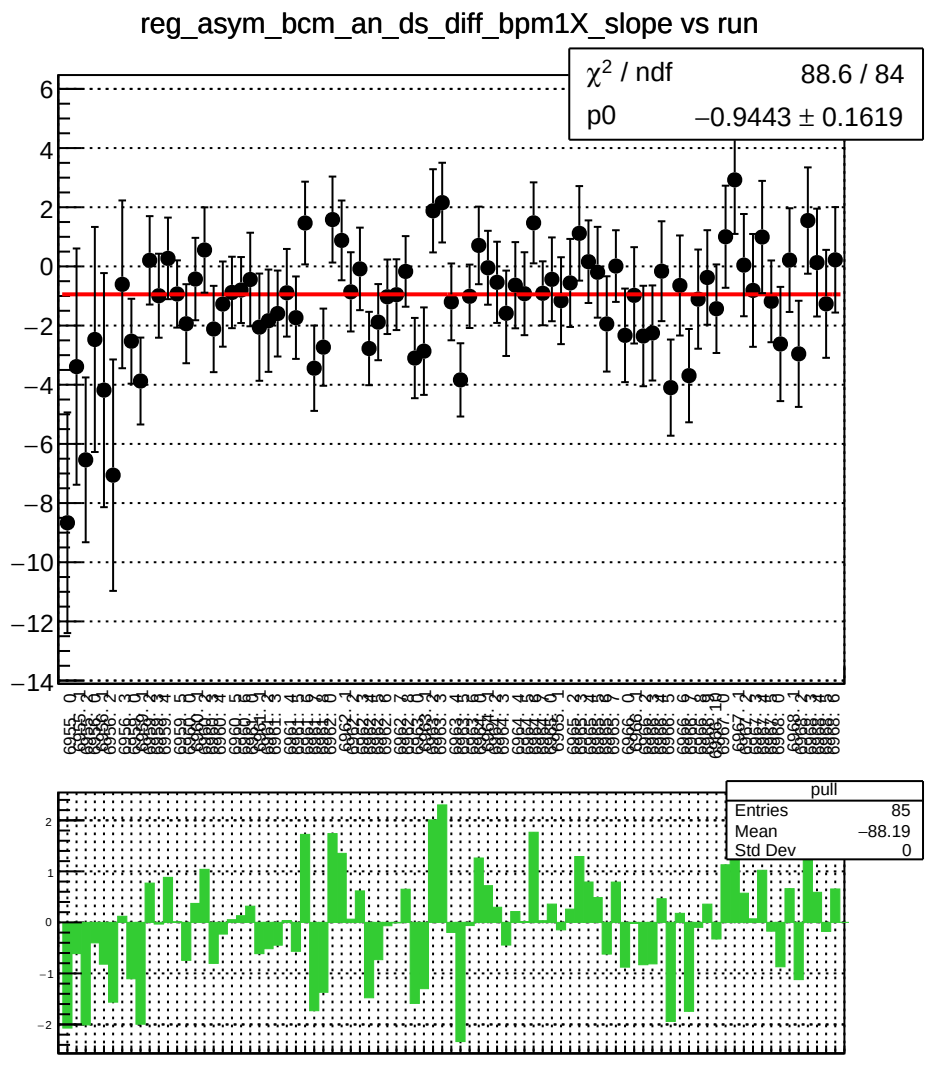

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 85.18 / 84
p0 0.5163 ± 0.1498
pull
Entries 85
Mean −193.3
Std Dev 0

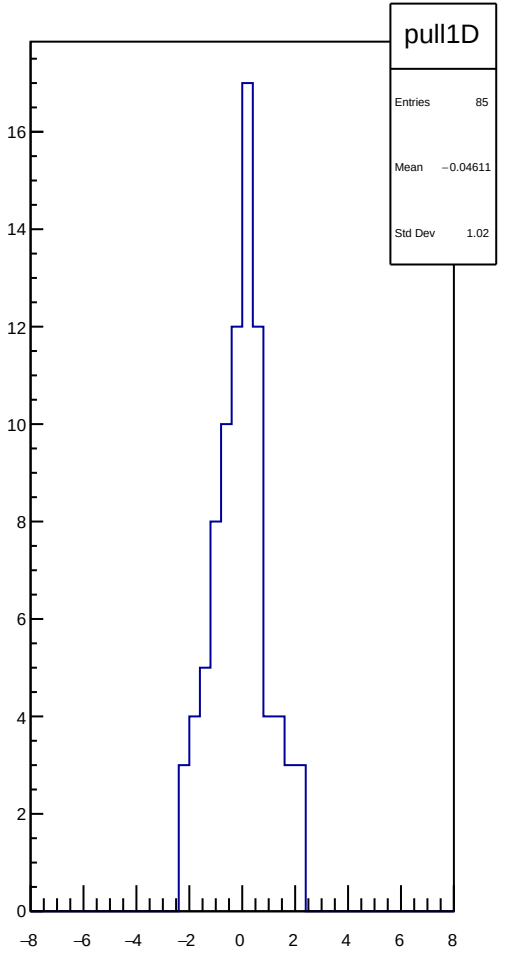

pull1D
Entries 85
Mean 0.02833
Std Dev 1.001

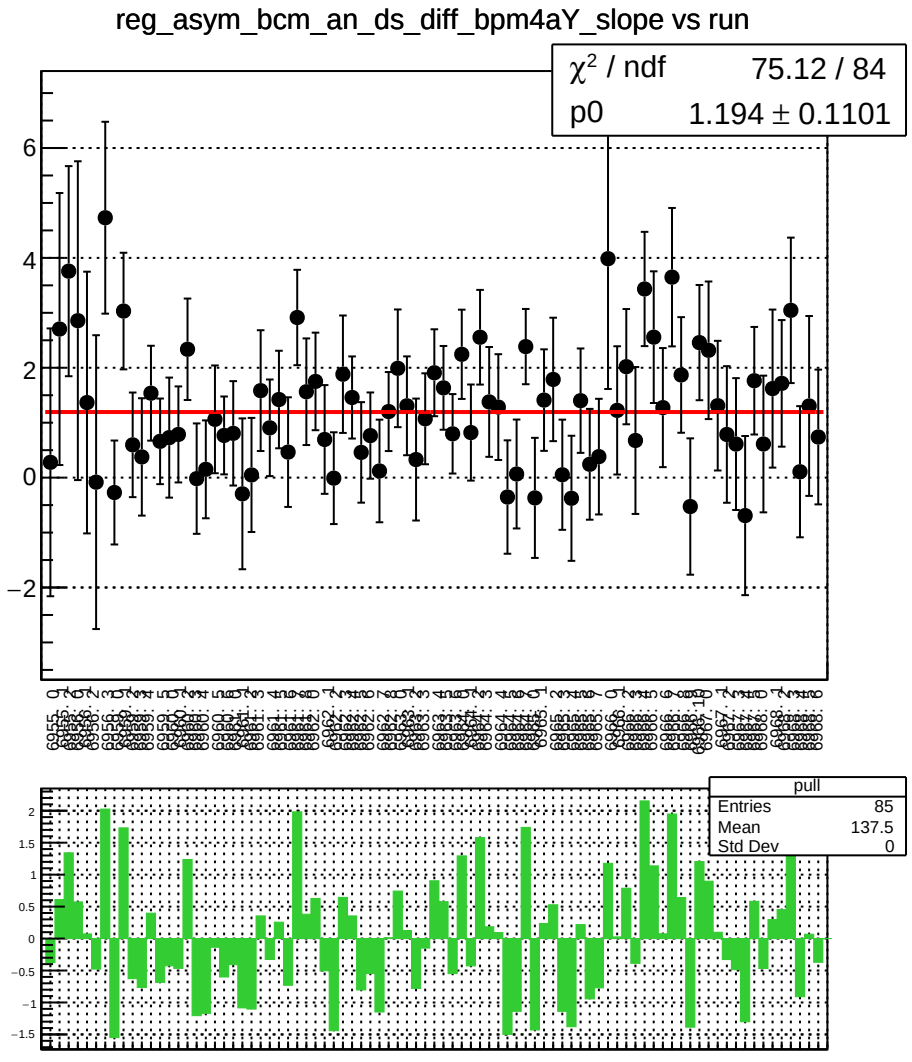

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 74.71 / 84
p0 −1.8 ± 0.1252
pull
Entries 85
Mean 119.7
Std Dev 0

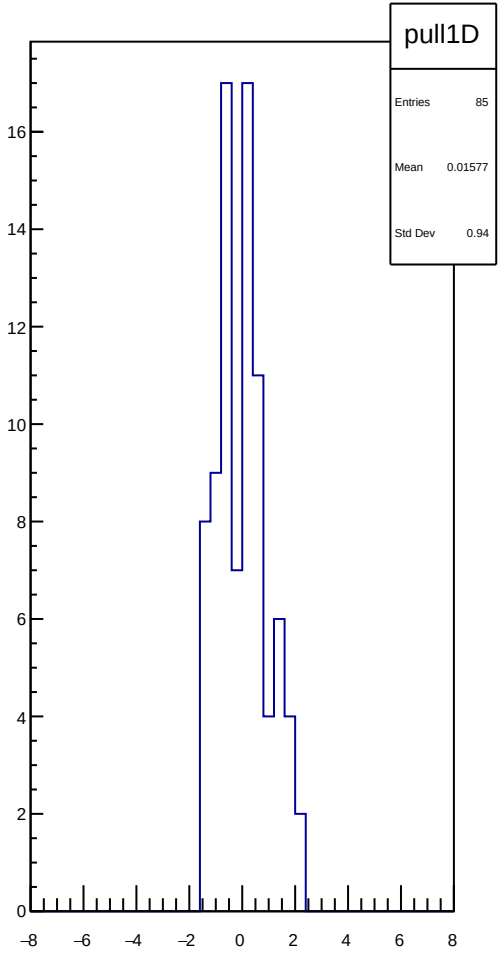

pull1D
Entries 85
Mean 0.01757
Std Dev 0.9374

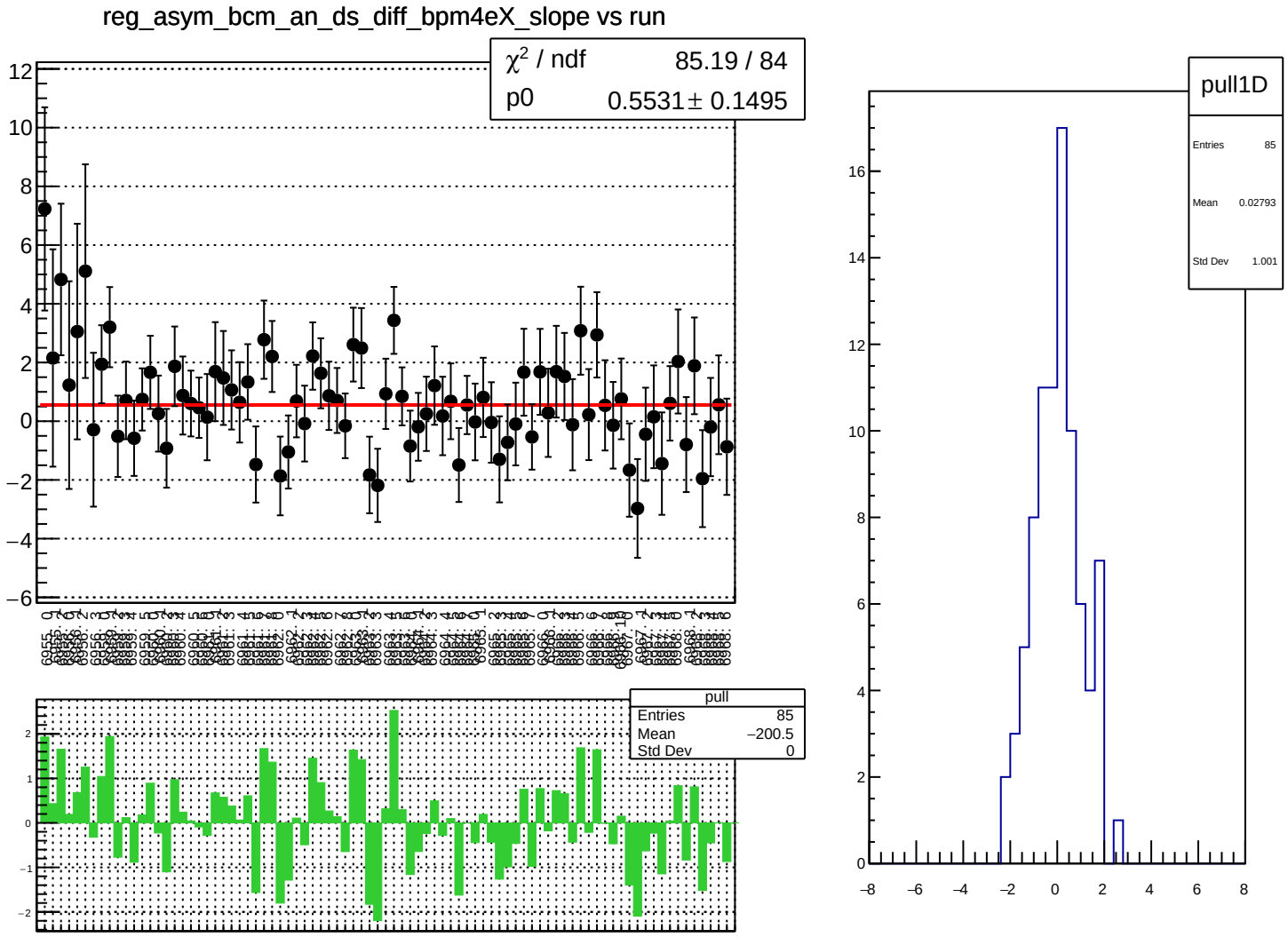

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 94.99 / 84
p0 −0.03756 ± 0.004751
pull
Entries 85
Mean 36.09
Std Dev 53.3
pull1D
Entries 85
Mean −0.07439
Std Dev 1.055

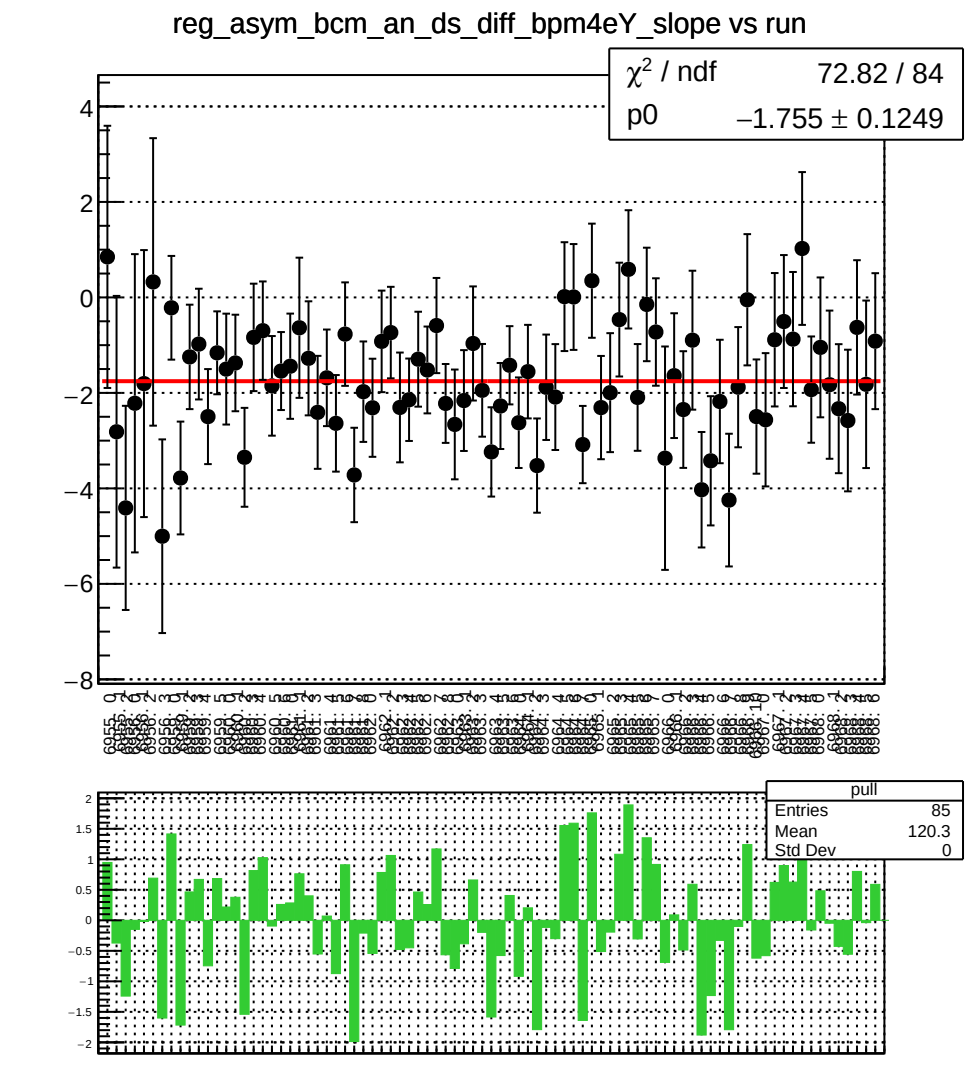

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 88.6 / 84
p0 −0.9443 ± 0.1619
pull
Entries 85
Mean −88.19
Std Dev 0

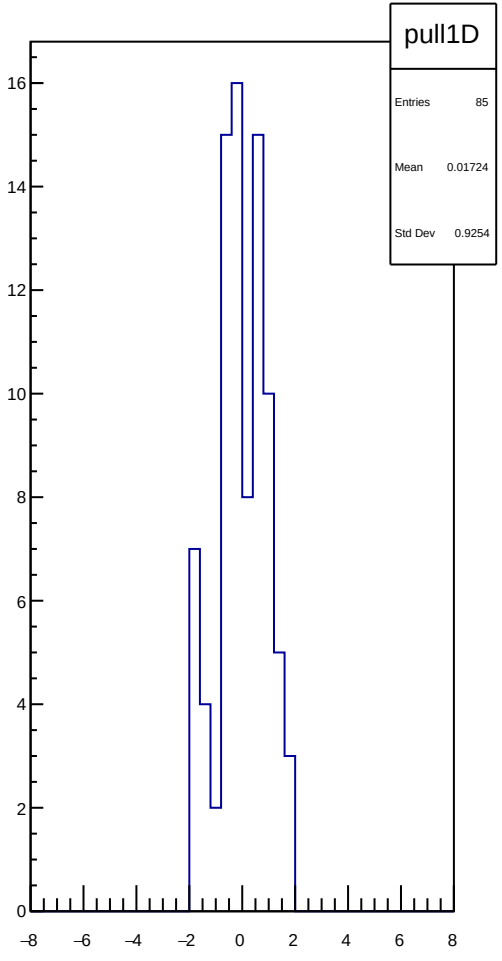

pull1D
Entries 85
Mean −0.04611
Std Dev 1.02

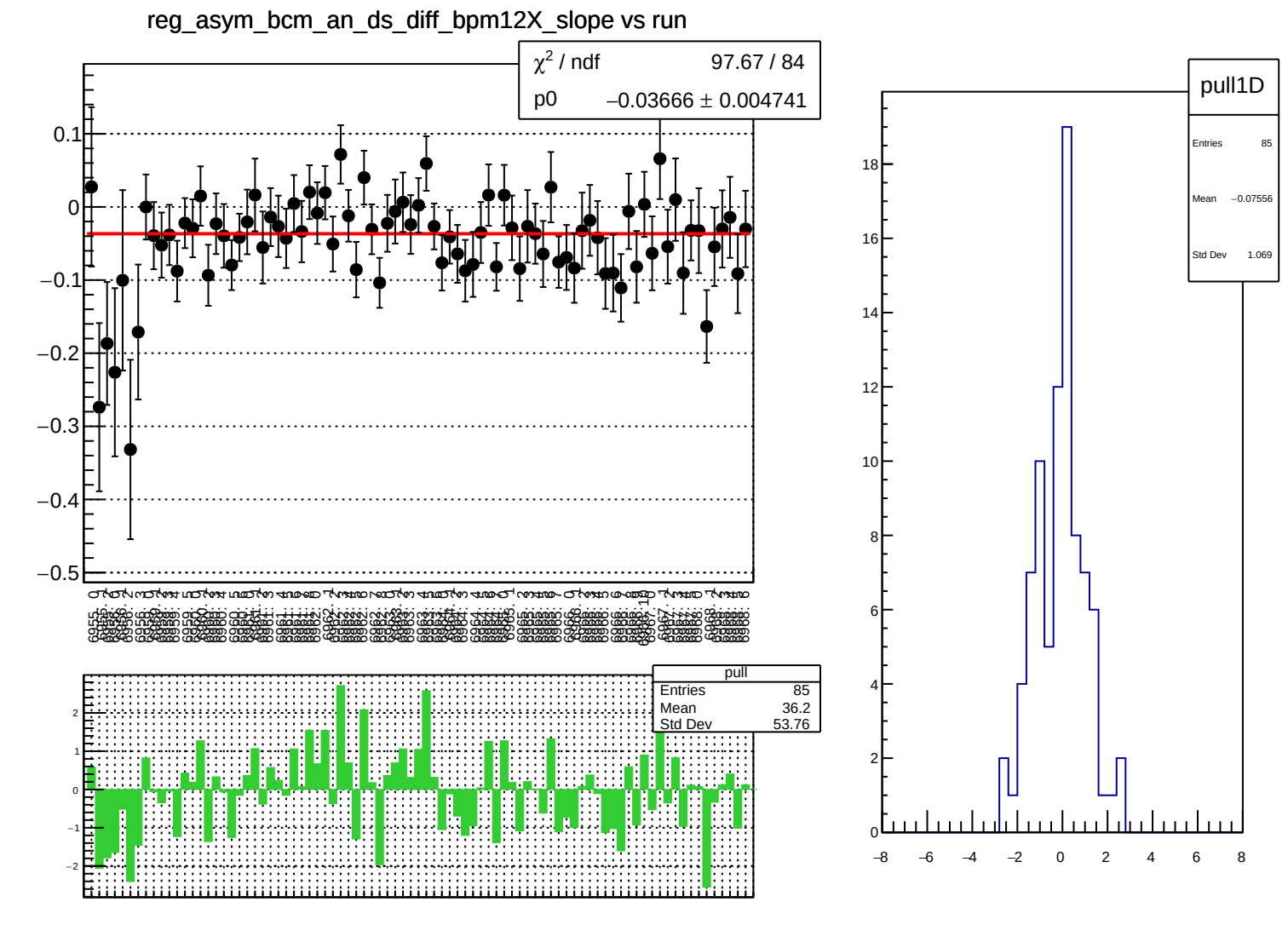

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 75.12 / 84
p0 1.194 ± 0.1101
pull
Entries 85
Mean 137.5
Std Dev 0

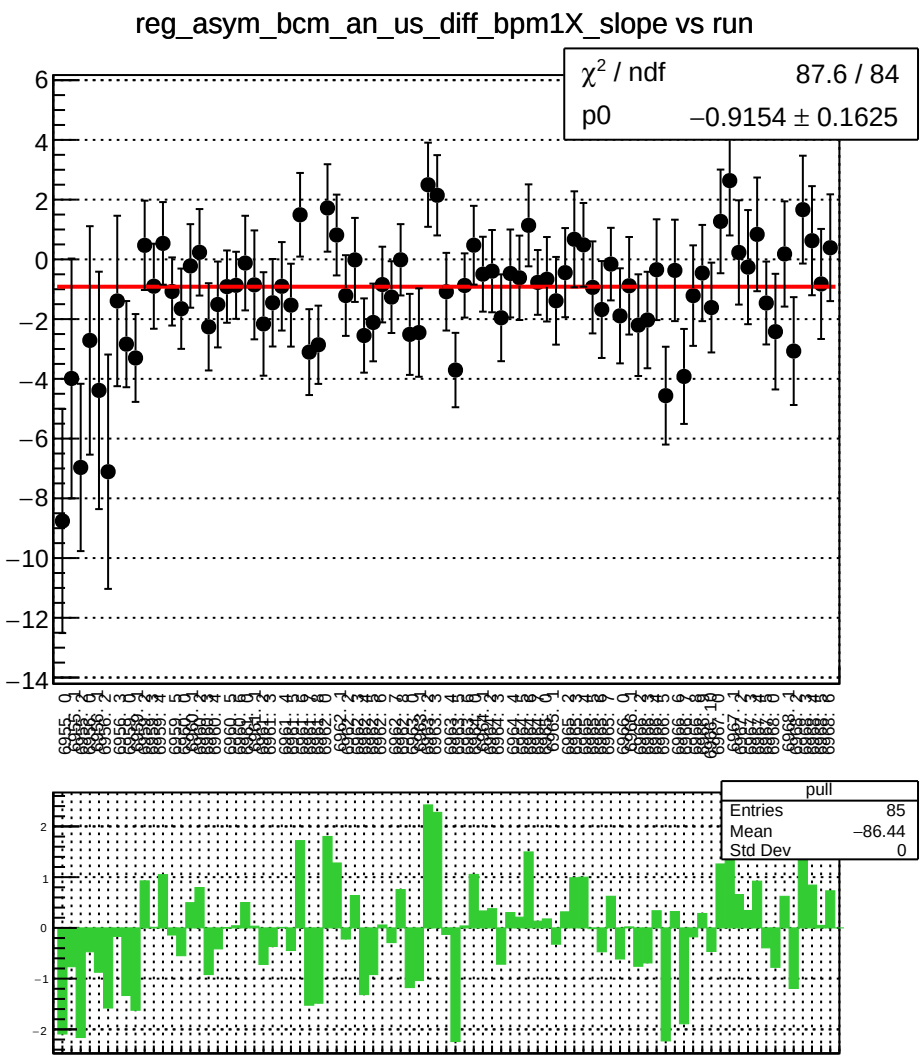

pull1D
Entries 85
Mean 0.01577
Std Dev 0.94

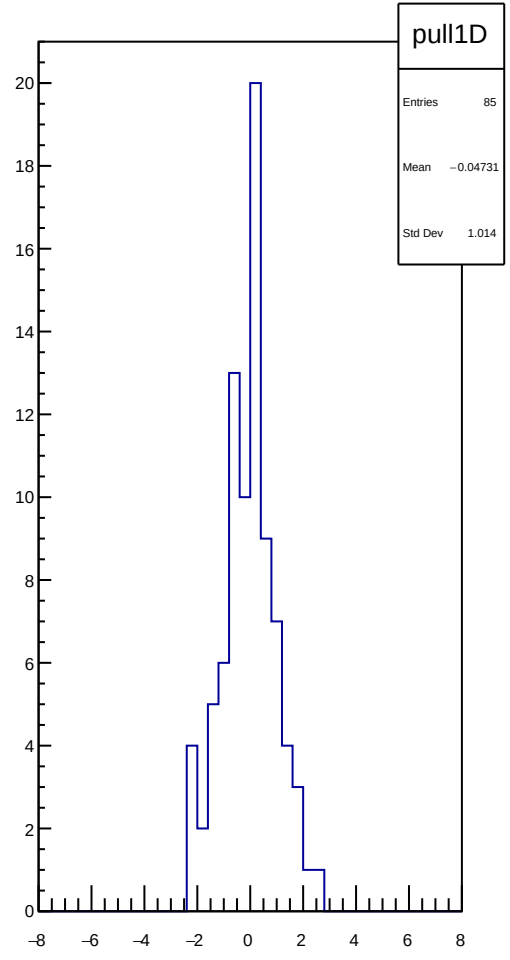

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 85.19 / 84
p0 0.5531 ± 0.1495
pull
Entries 85
Mean −200.5
Std Dev 0
pull1D
Entries 85
Mean 0.02793
Std Dev 1.001

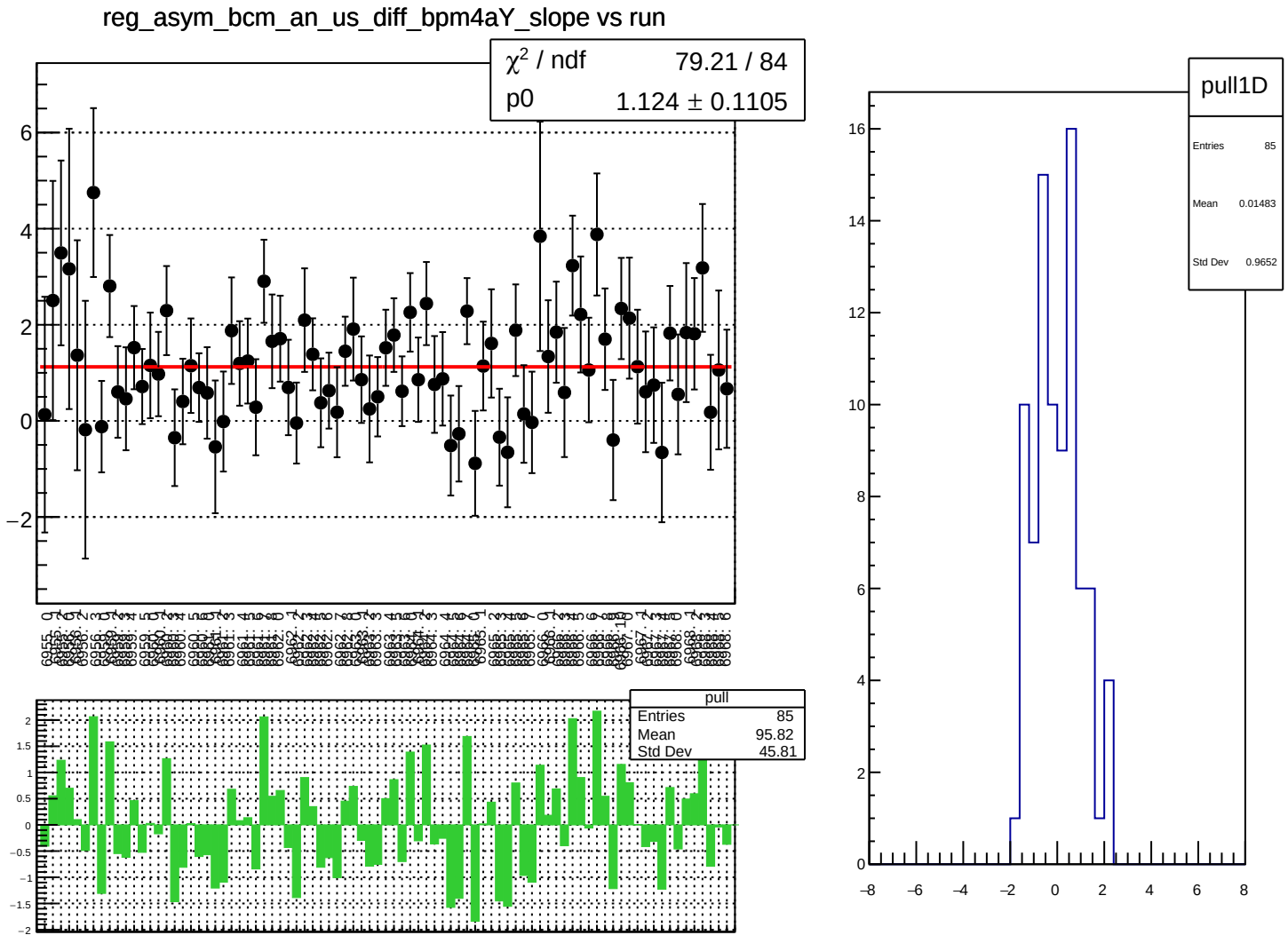

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 72.82 / 84
p0 −1.755 ± 0.1249
pull
Entries 85
Mean 120.3
Std Dev 0

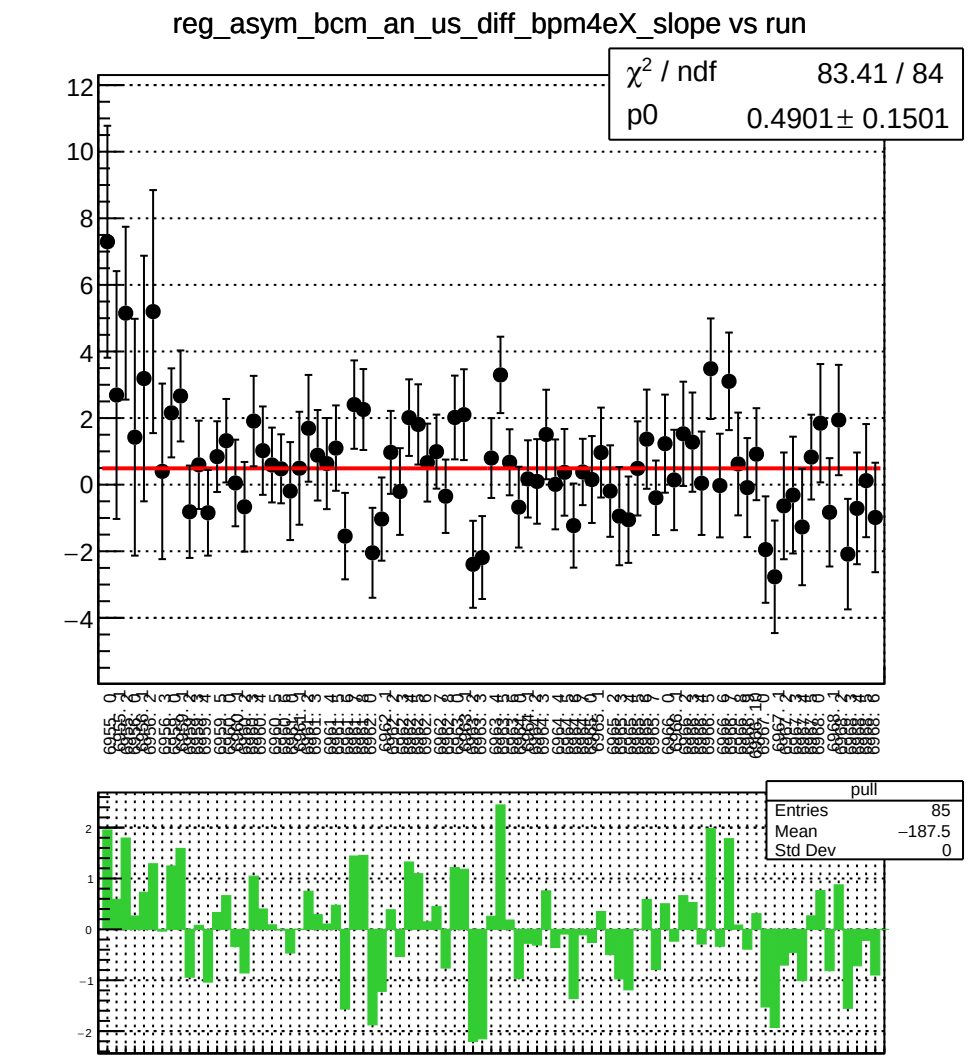

pull1D
Entries 85
Mean 0.01724
Std Dev 0.9254

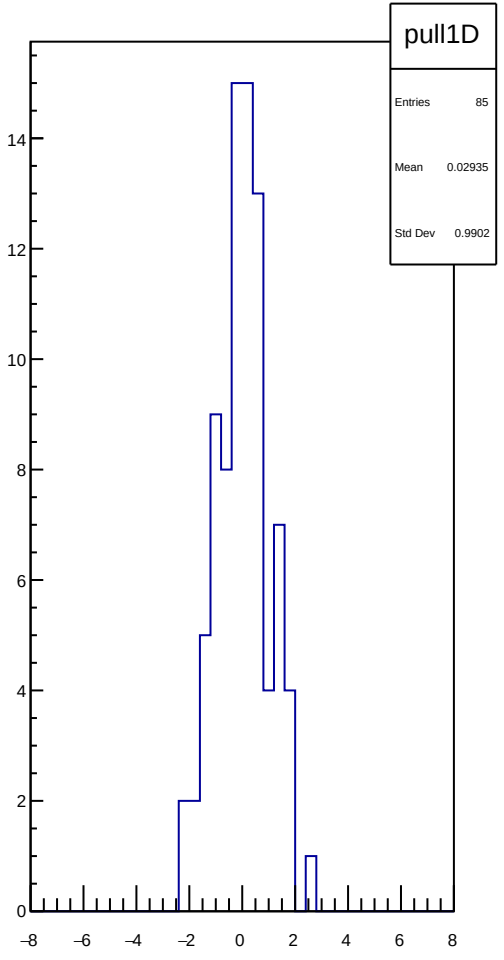

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 97.67 / 84
p0 −0.03666 ± 0.004741
pull
Entries 85
Mean 36.2
Std Dev 53.76
pull1D
Entries 85
Mean −0.07556
Std Dev 1.069

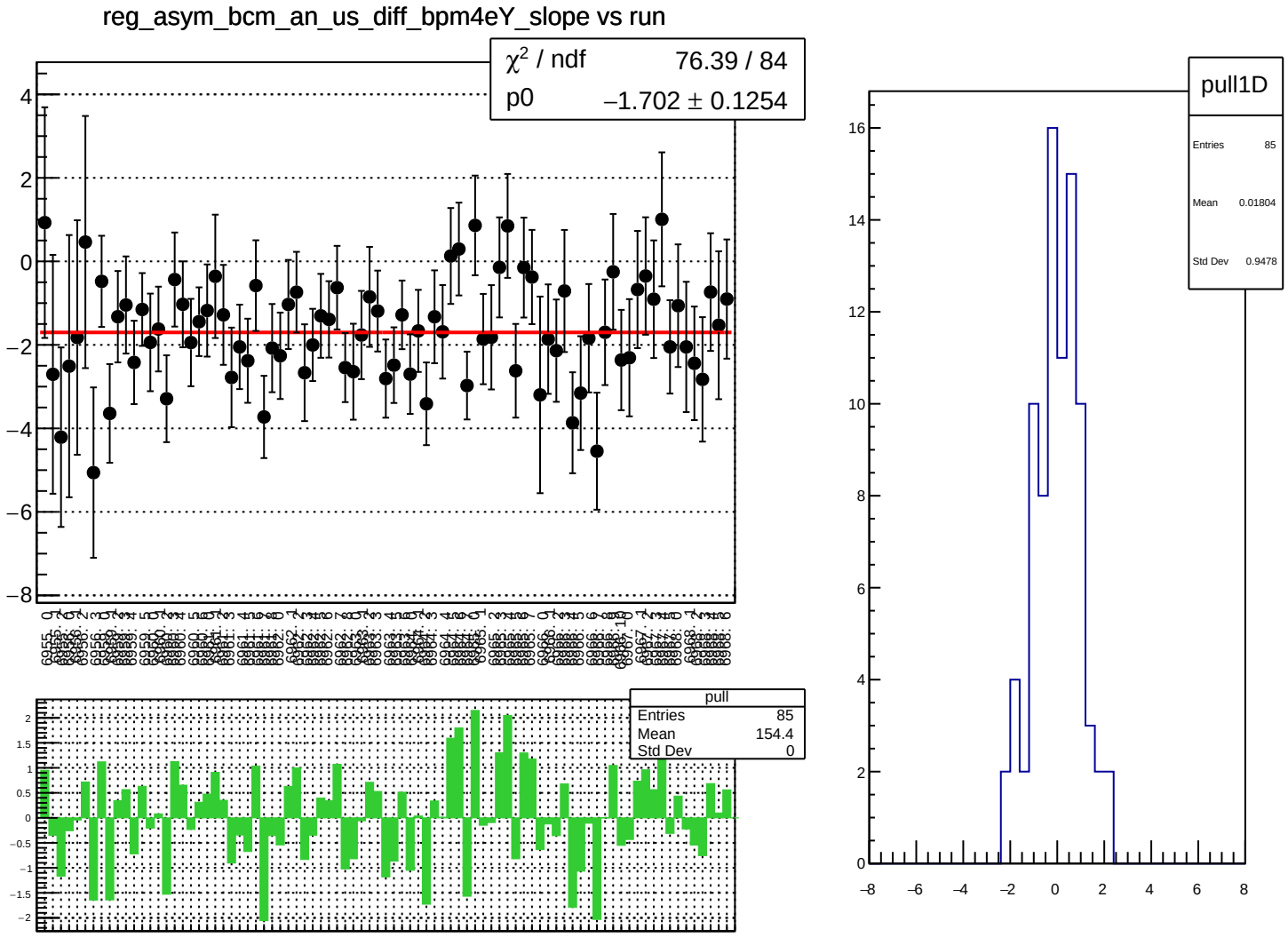

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 87.6 / 84
p0 −0.9154 ± 0.1625
pull
Entries 85
Mean −86.44
Std Dev 0

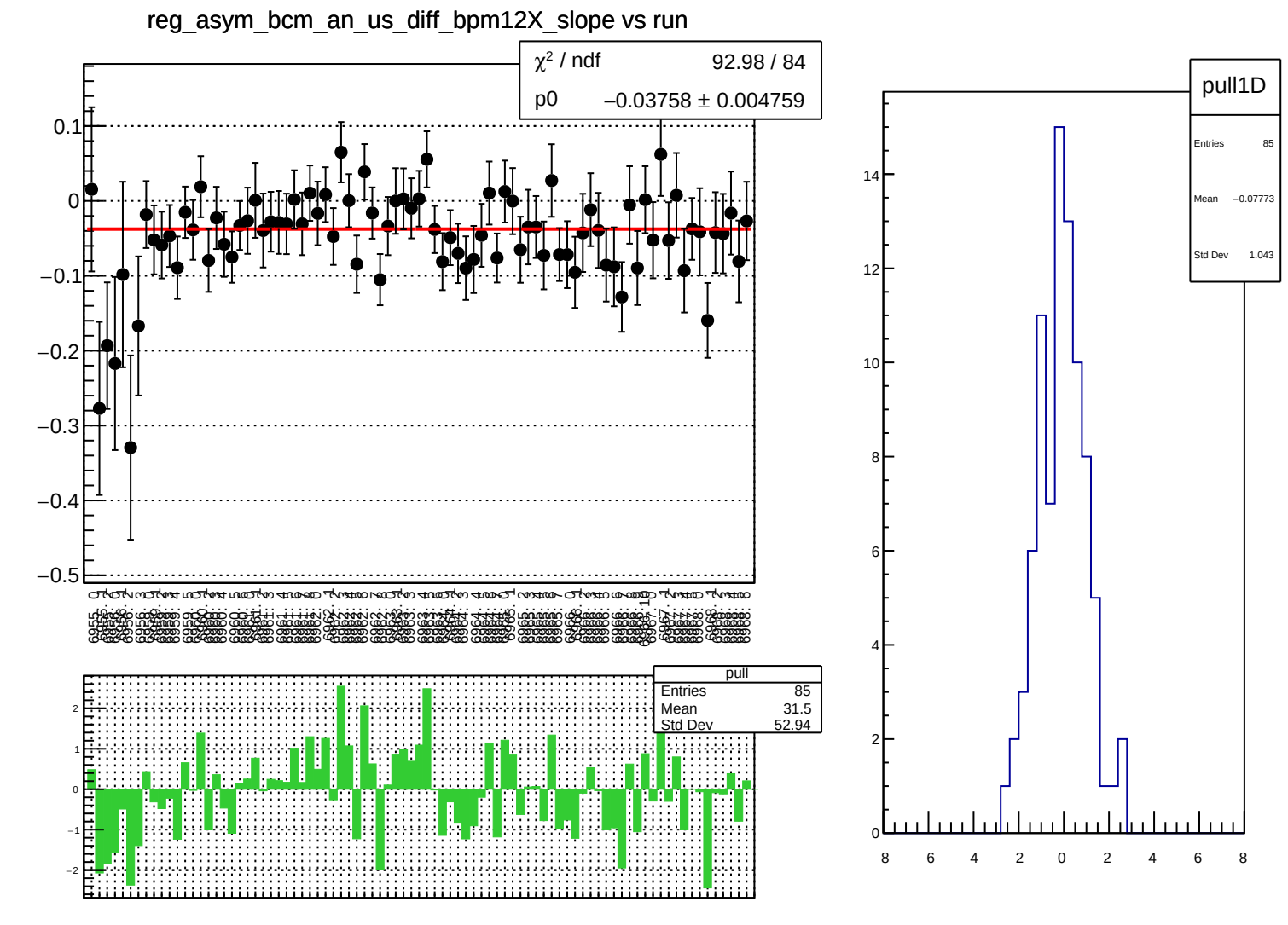

pull1D
Entries 85
Mean −0.04731
Std Dev 1.014

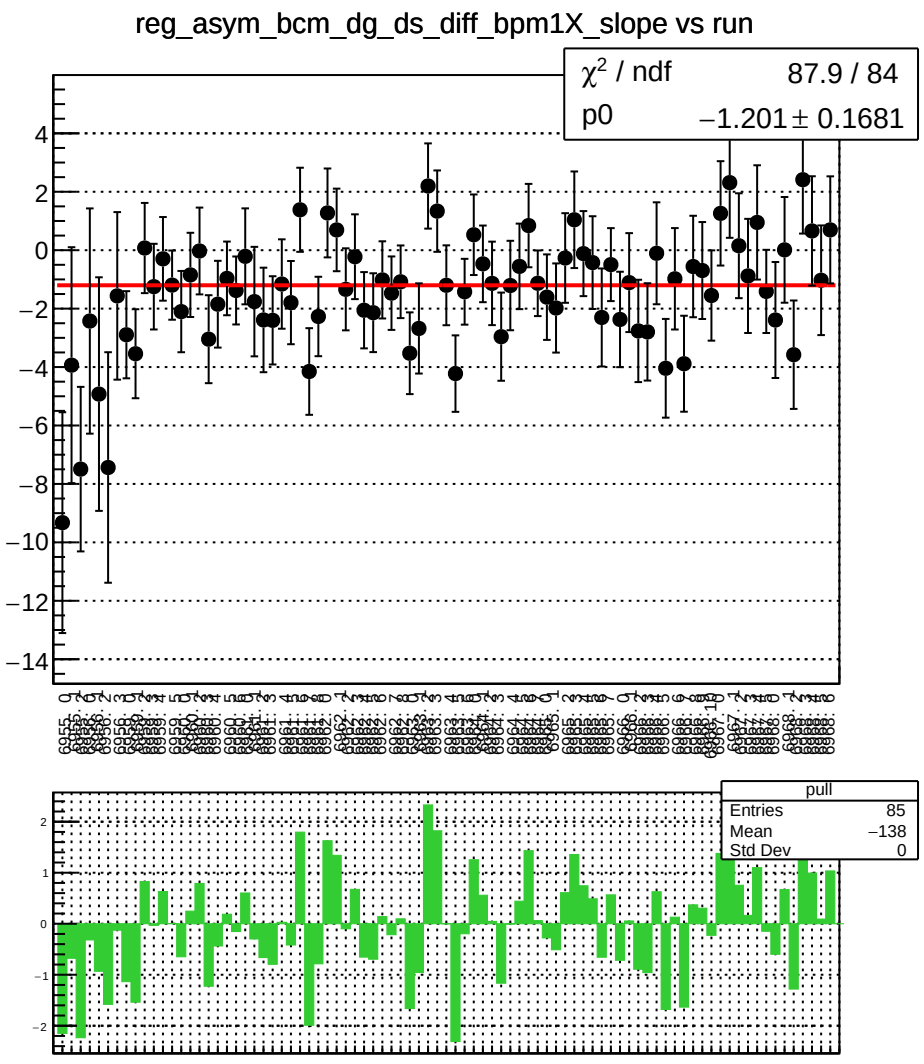

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 79.21 / 84
p0 1.124 ± 0.1105
pull
Entries 85
Mean 95.82
Std Dev 45.81
pull1D
Entries 85
Mean 0.01483
Std Dev 0.9652

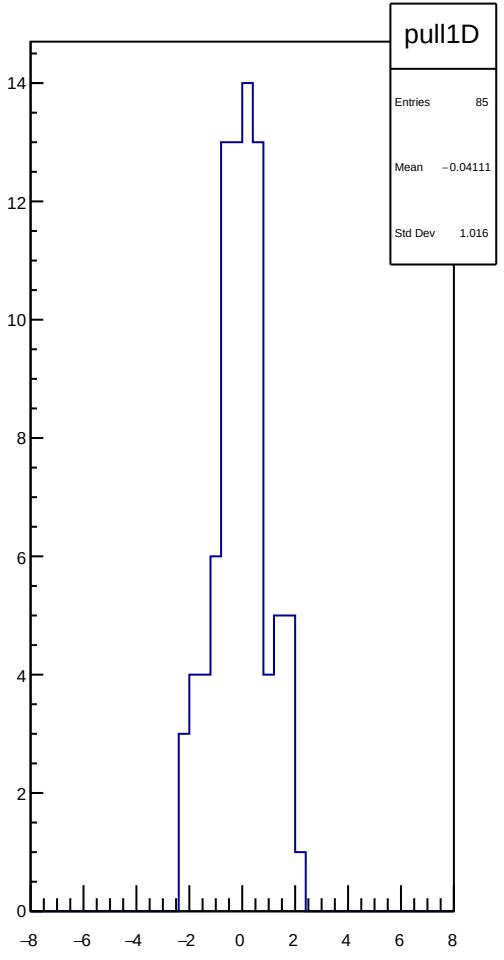

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 83.41 / 84
p0 0.4901 ± 0.1501
pull
Entries 85
Mean −187.5
Std Dev 0

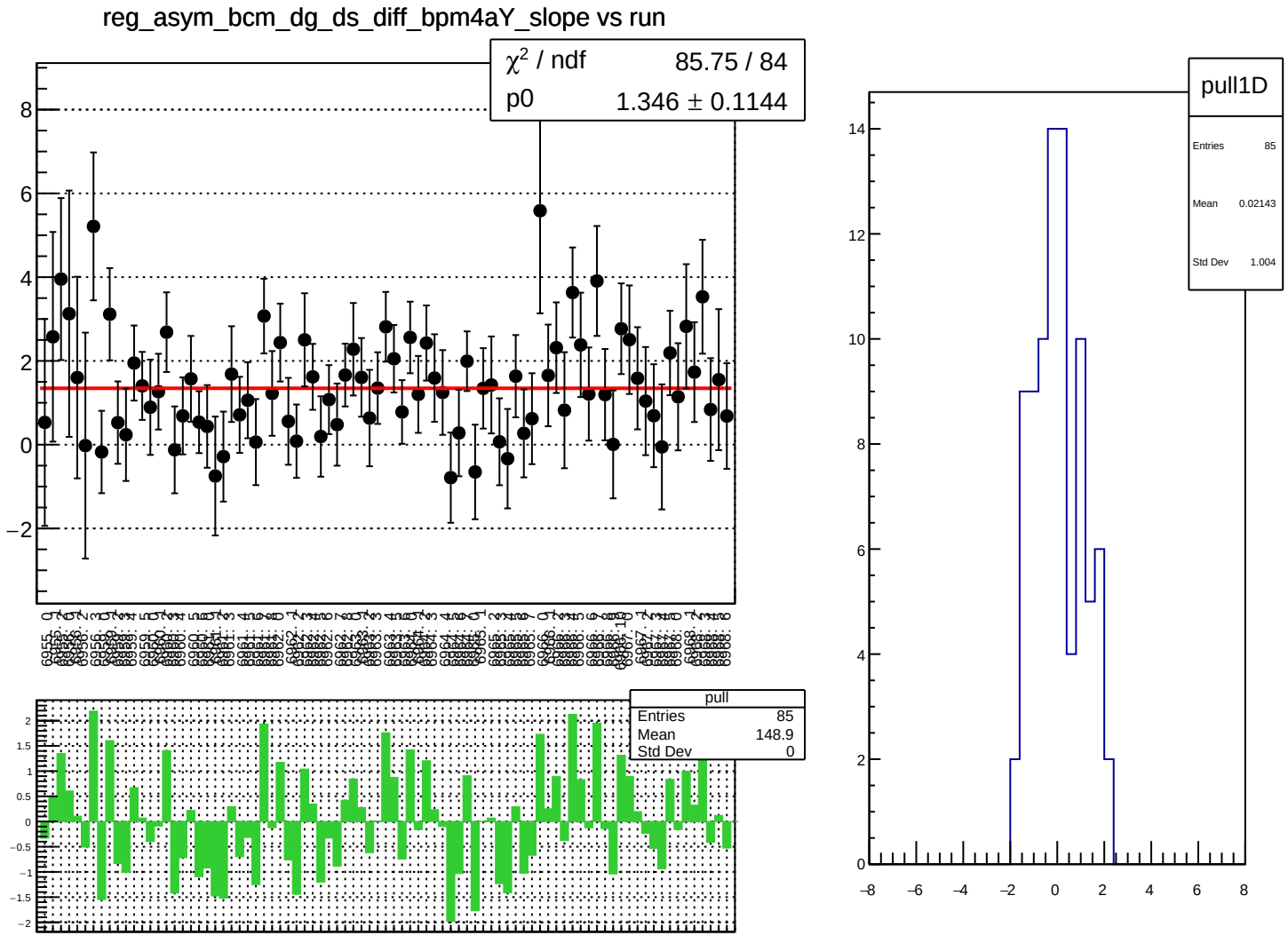

pull1D
Entries 85
Mean 0.02935
Std Dev 0.9902

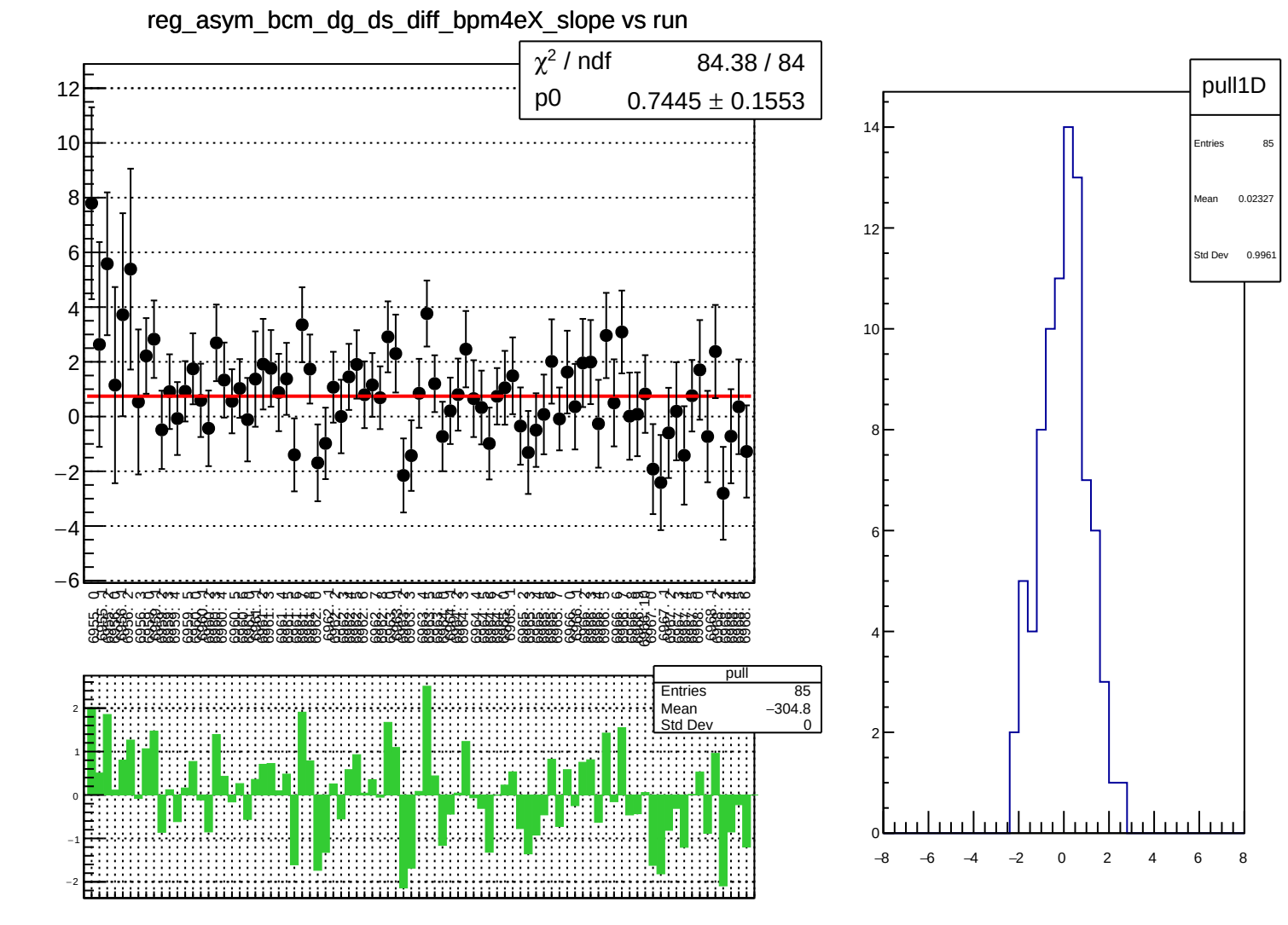

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 76.39 / 84
p0 −1.702 ± 0.1254
pull
Entries 85
Mean 154.4
Std Dev 0
pull1D
Entries 85
Mean 0.01804
Std Dev 0.9478

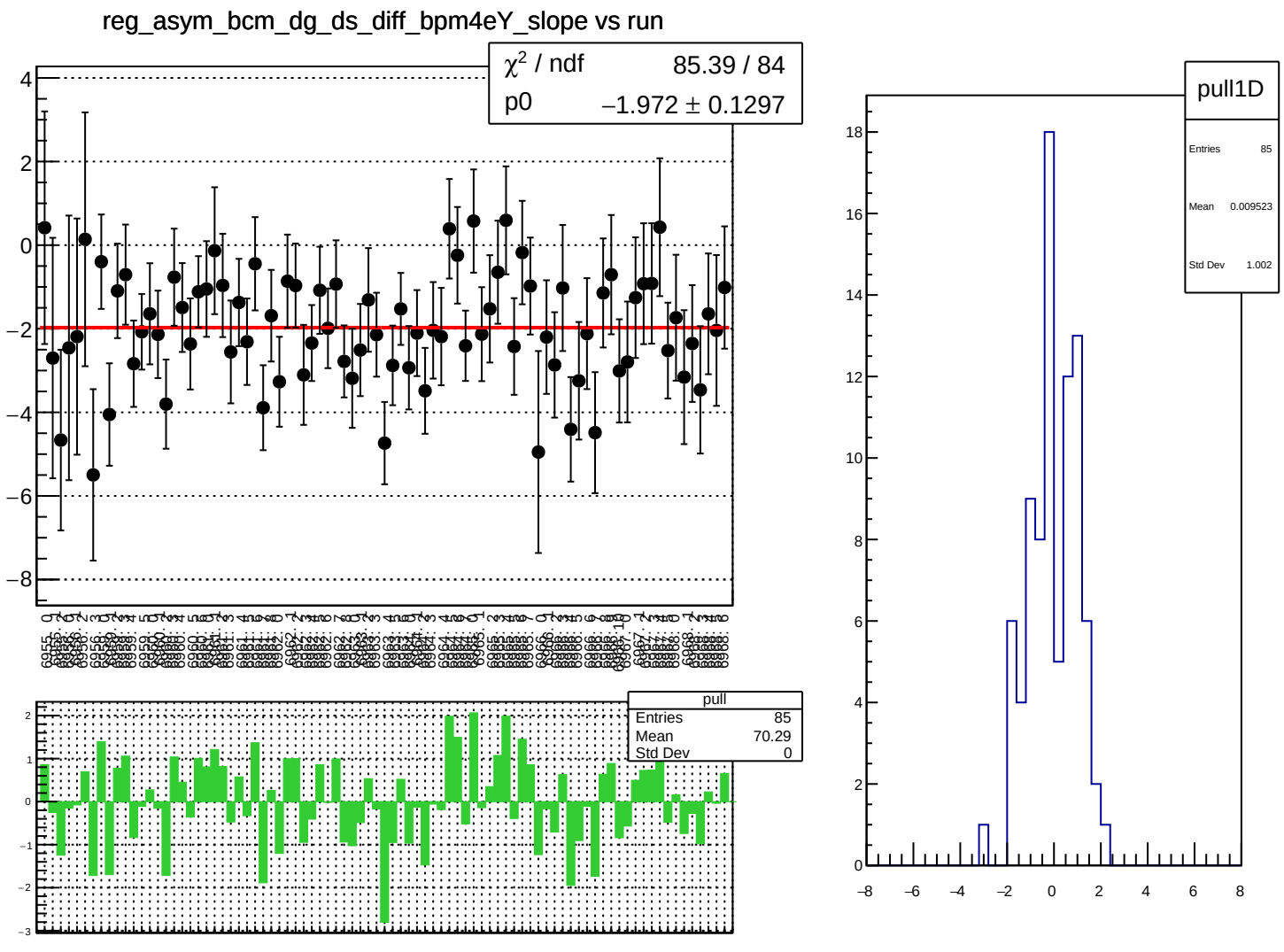

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 92.98 / 84
p0 −0.03758 ± 0.004759
pull
Entries 85
Mean 31.5
Std Dev 52.94
pull1D
Entries 85
Mean −0.07773
Std Dev 1.043

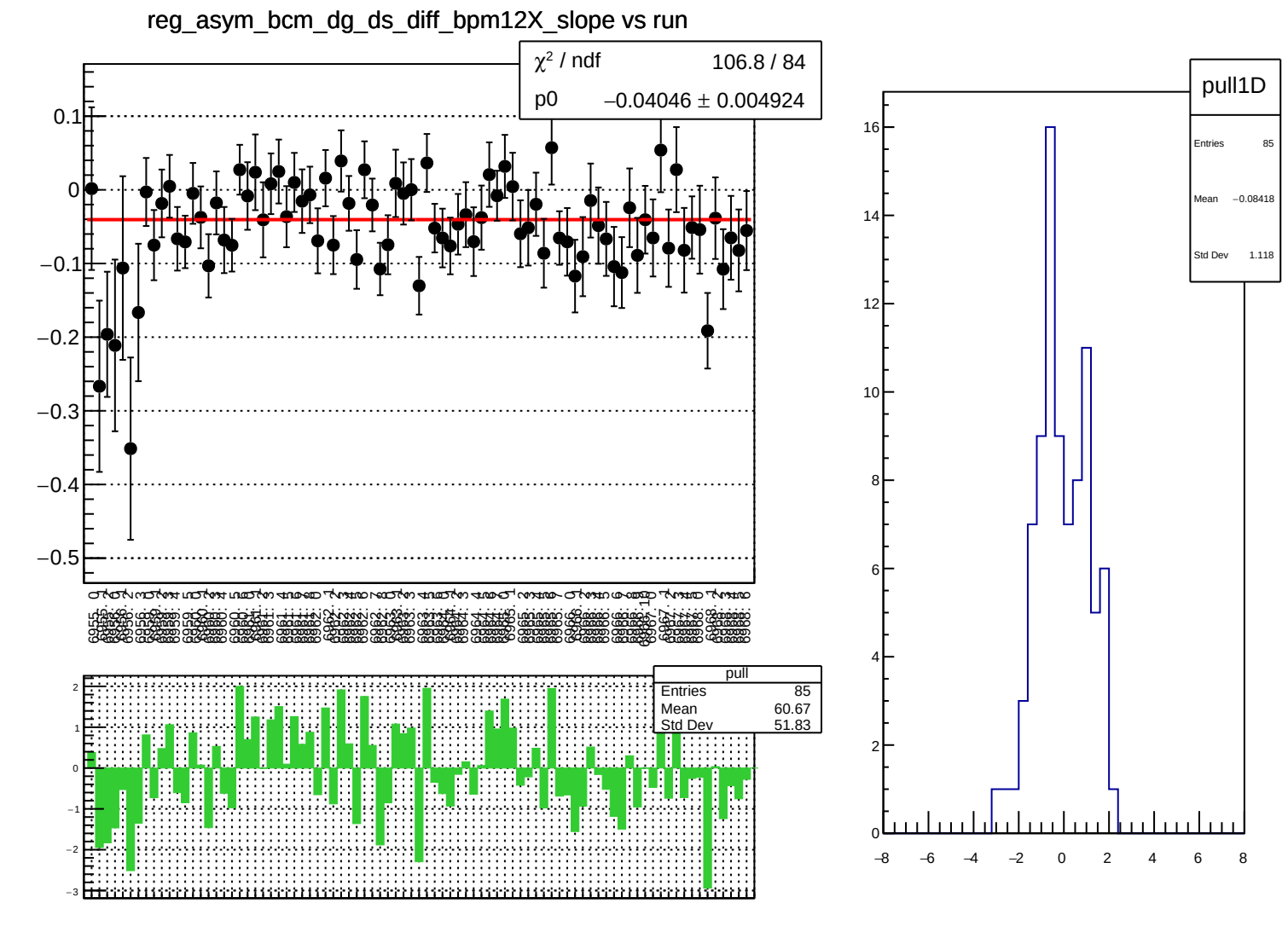

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 87.9 / 84
p0 −1.201 ± 0.1681
pull
Entries 85
Mean −138
Std Dev 0

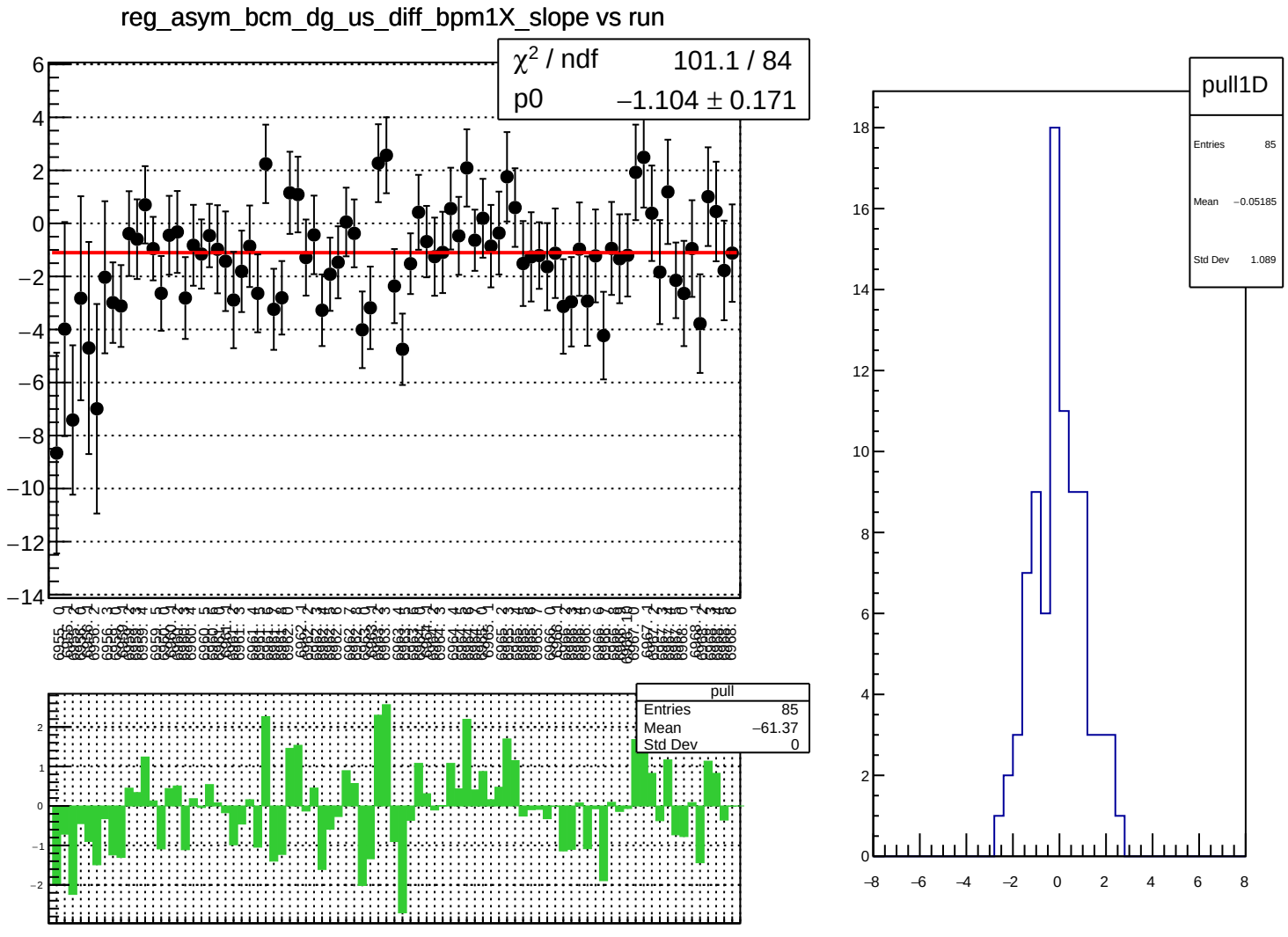

pull1D
Entries 85
Mean −0.04111
Std Dev 1.016

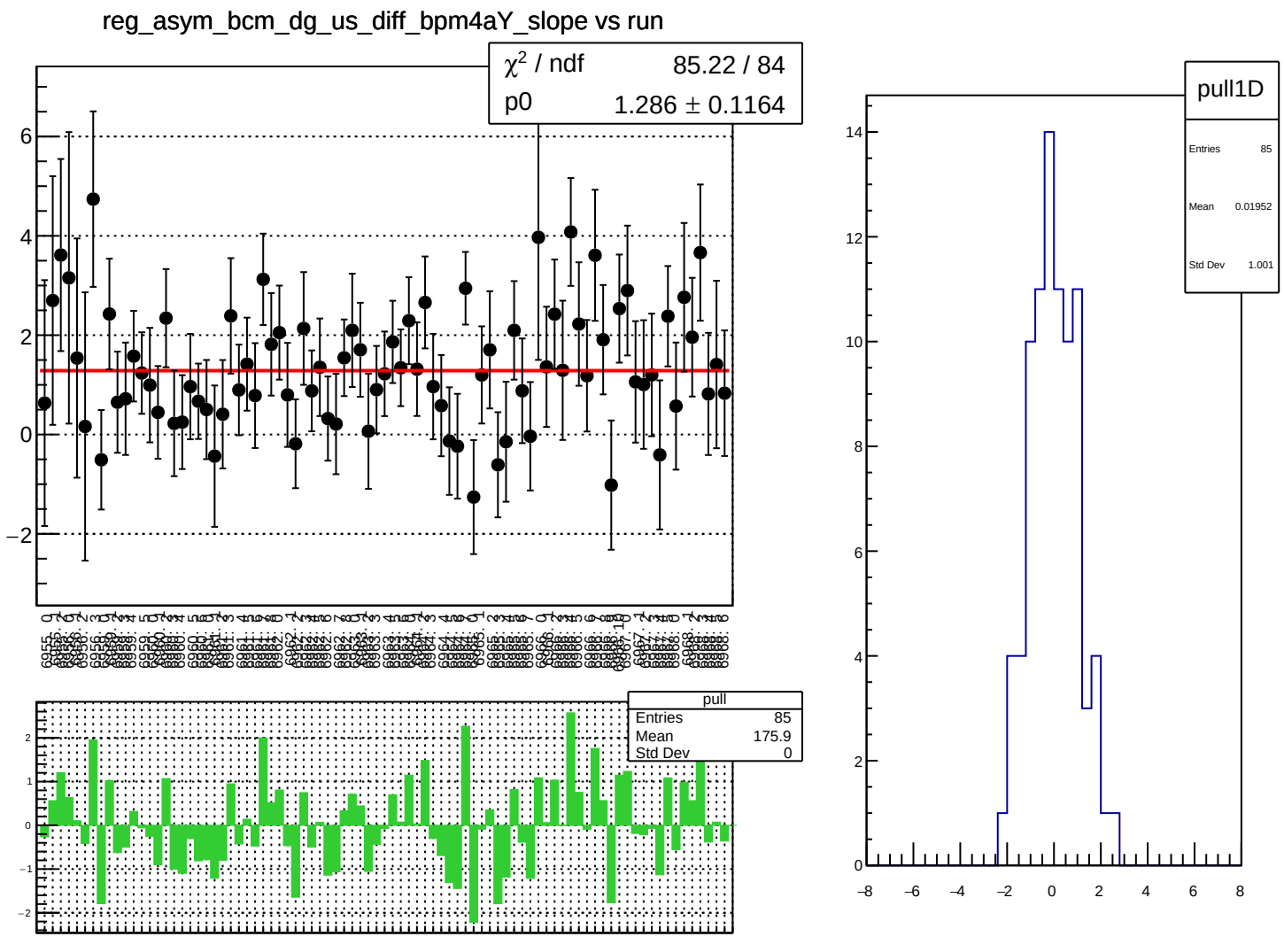

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 85.75 / 84
p0 1.346 ± 0.1144
pull
Entries 85
Mean 148.9
Std Dev 0
pull1D
Entries 85
Mean 0.02143
Std Dev 1.004

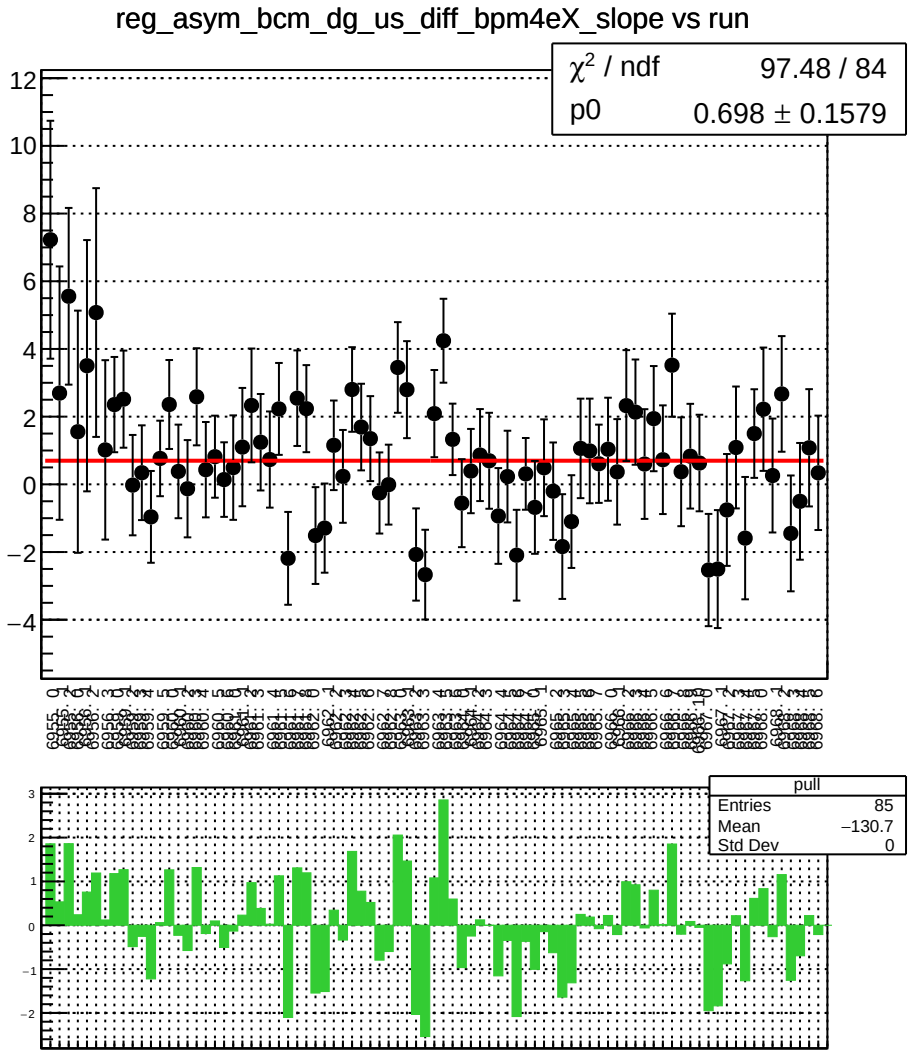

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 84.38 / 84
p0 0.7445 ± 0.1553
pull
Entries 85
Mean −304.8
Std Dev 0
pull1D
Entries 85
Mean 0.02327
Std Dev 0.9961

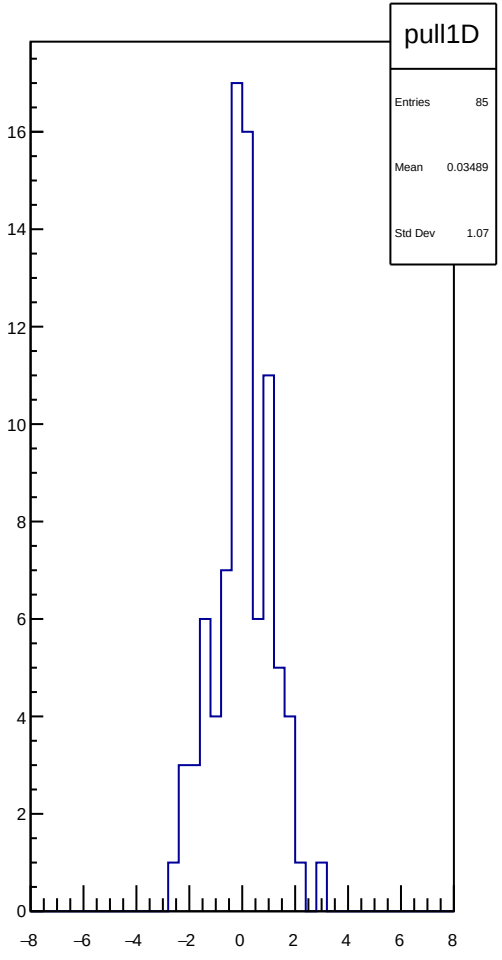

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 85.39 / 84
p0 −1.972 ± 0.1297
pull
Entries 85
Mean 70.29
Std Dev 0
pull1D
Entries 85
Mean 0.009523
Std Dev 1.002

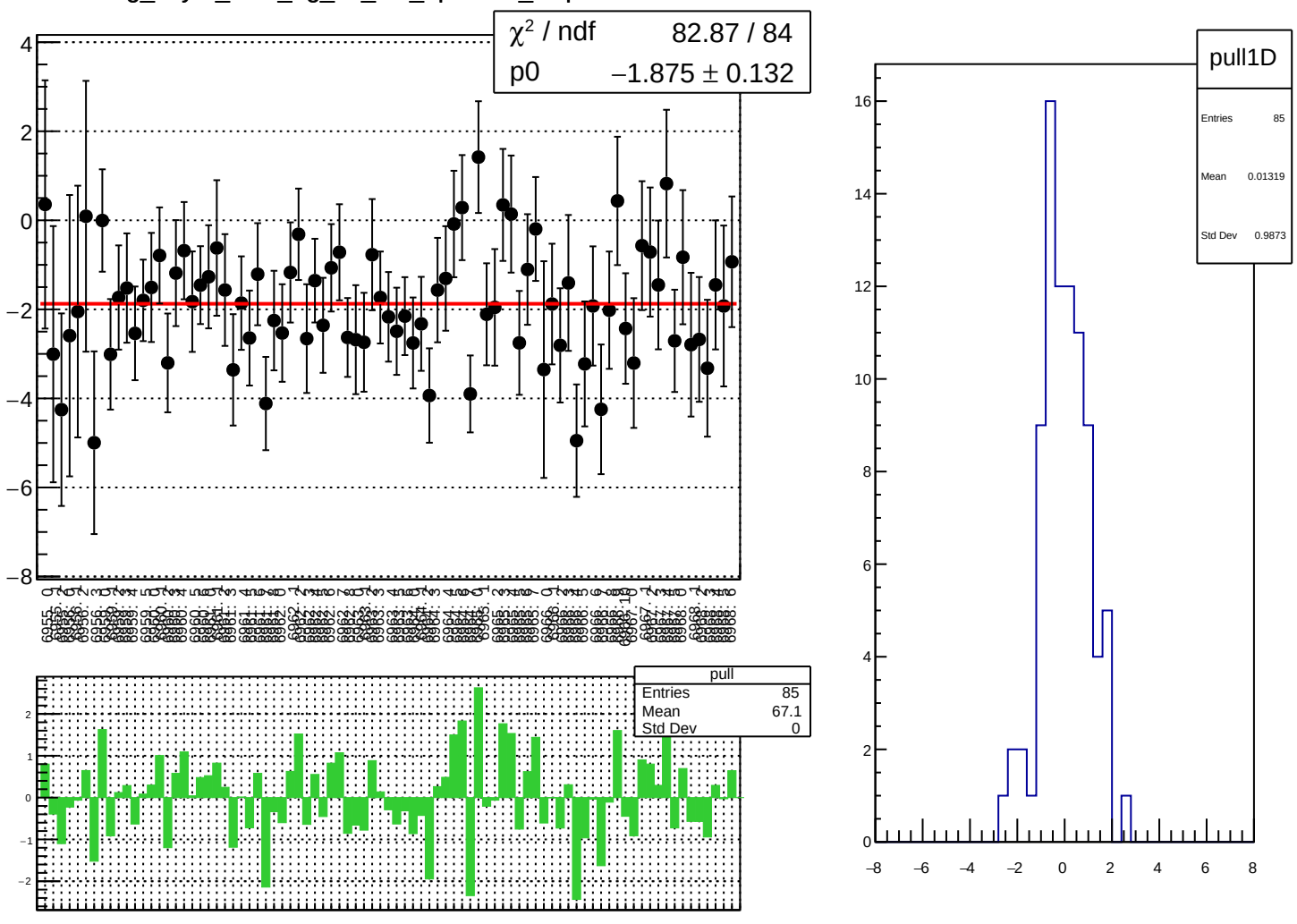

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 106.8 / 84
p0 −0.04046 ± 0.004924
pull
Entries 85
Mean 60.67
Std Dev 51.83
pull1D
Entries 85
Mean −0.08418
Std Dev 1.118

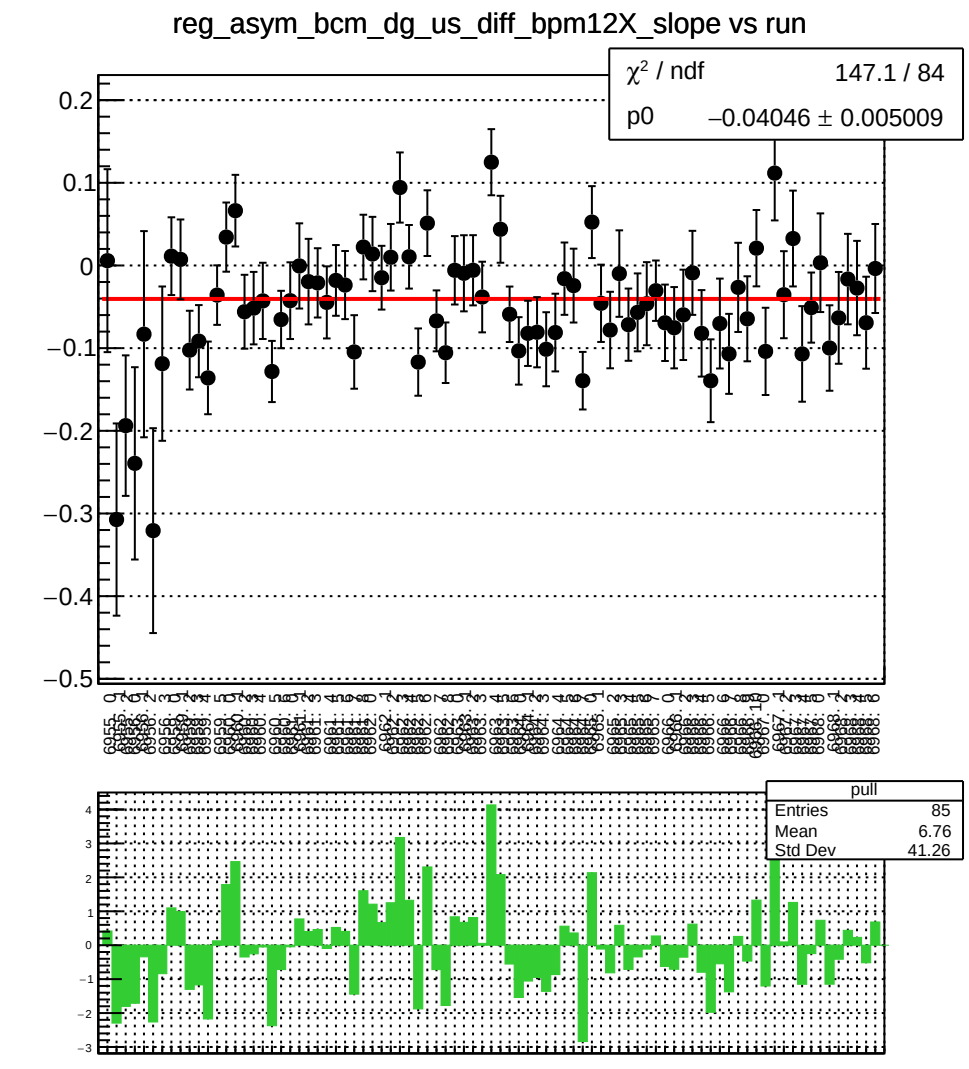

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 101.1 / 84
p0 −1.104 ± 0.171
pull
Entries 85
Mean −61.37
Std Dev 0
pull1D
Entries 85
Mean −0.05185
Std Dev 1.089

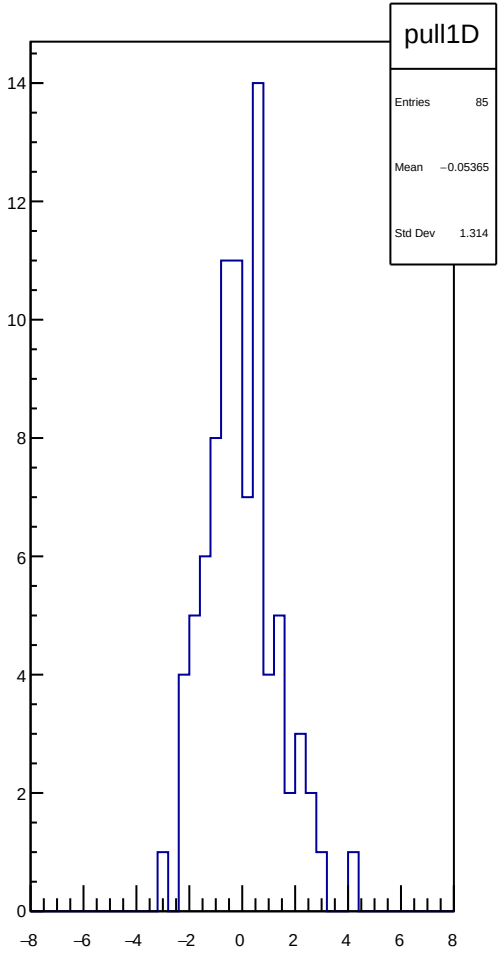

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 85.22 / 84
p0 1.286 ± 0.1164
pull
Entries 85
Mean 175.9
Std Dev 0
pull1D
Entries 85
Mean 0.01952
Std Dev 1.001

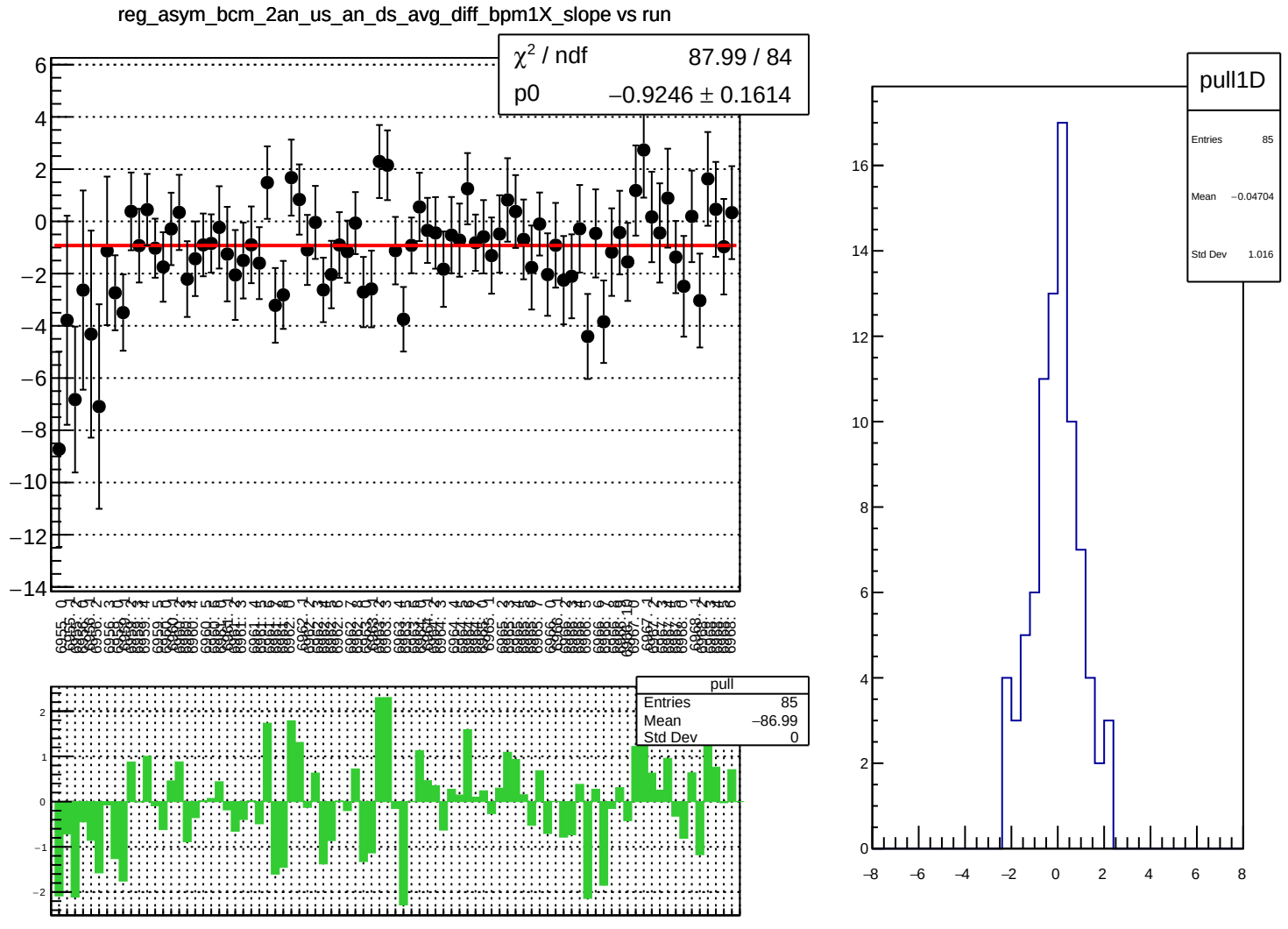

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 97.48 / 84
p0 0.698 ± 0.1579
pull
Entries 85
Mean −130.7
Std Dev 0

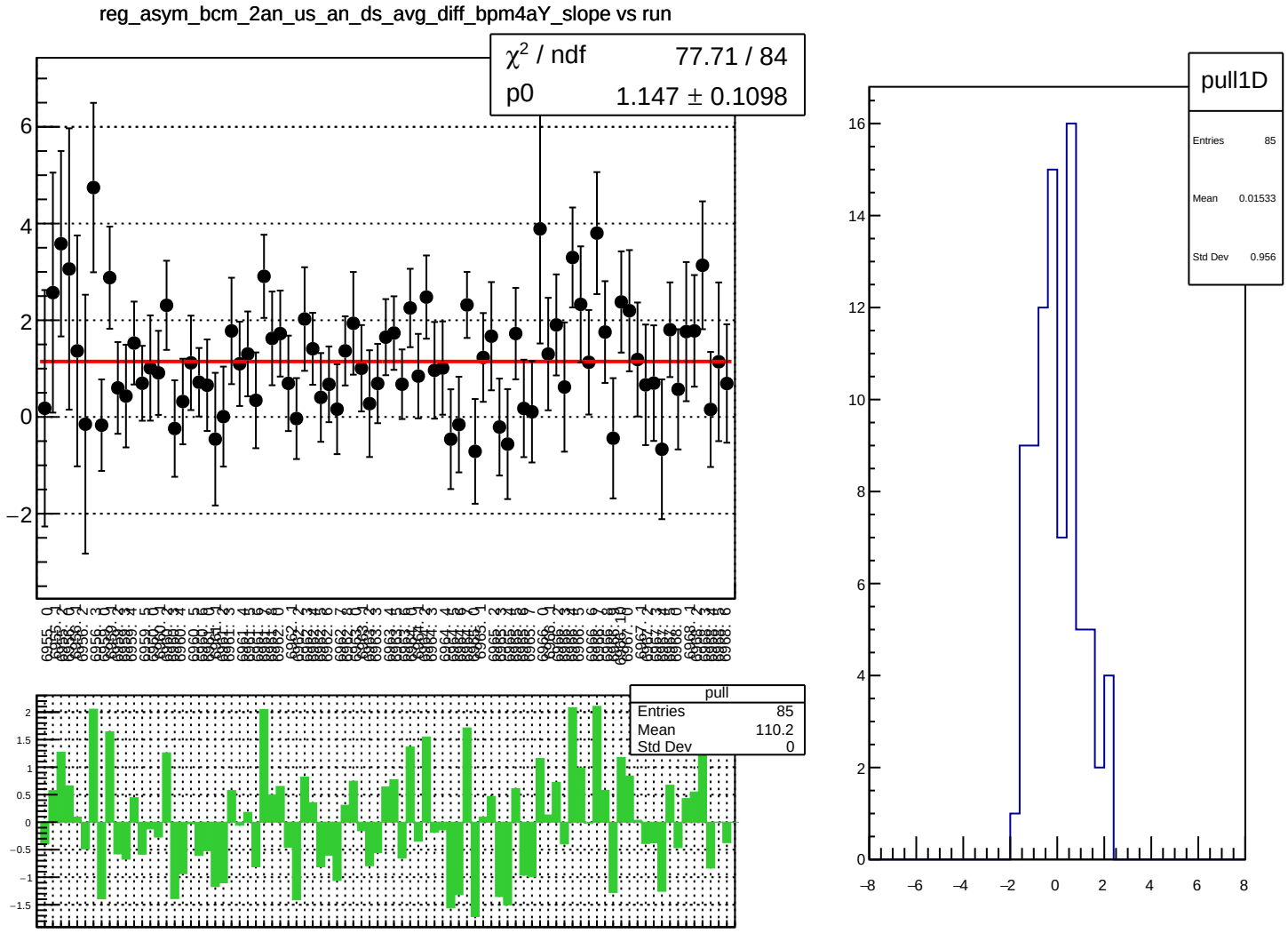

pull1D
Entries 85
Mean 0.03489
Std Dev 1.07

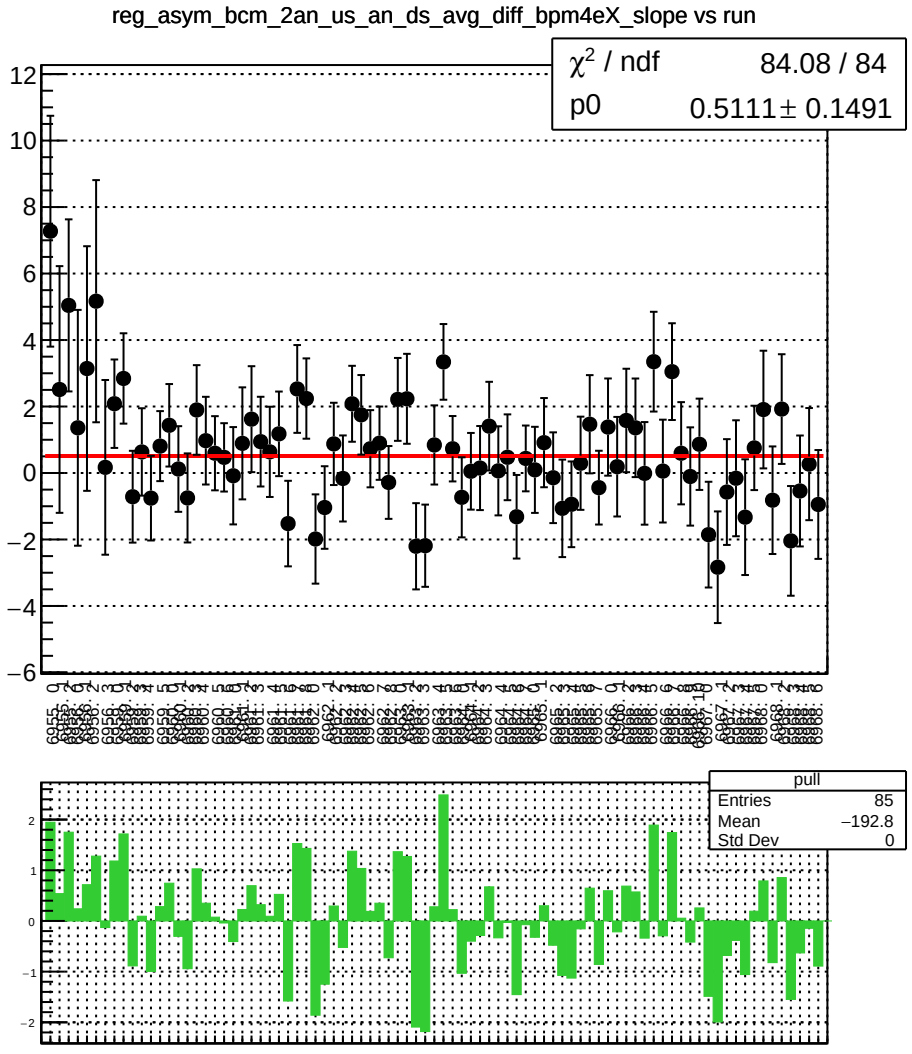

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 82.87 / 84
p0 −1.875 ± 0.132
pull
Entries 85
Mean 67.1
Std Dev 0
pull1D
Entries 85
Mean 0.01319
Std Dev 0.9873

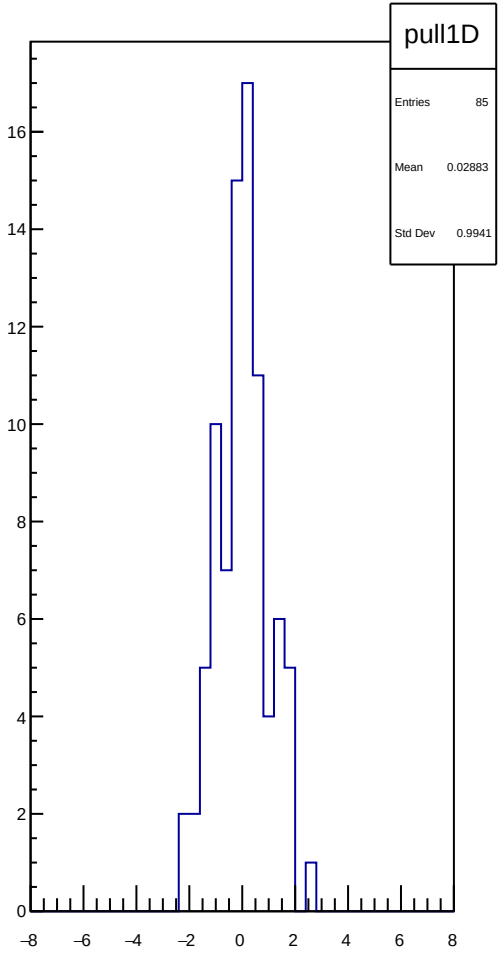

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 147.1 / 84
p0 −0.04046 ± 0.005009
pull
Entries 85
Mean 6.76
Std Dev 41.26

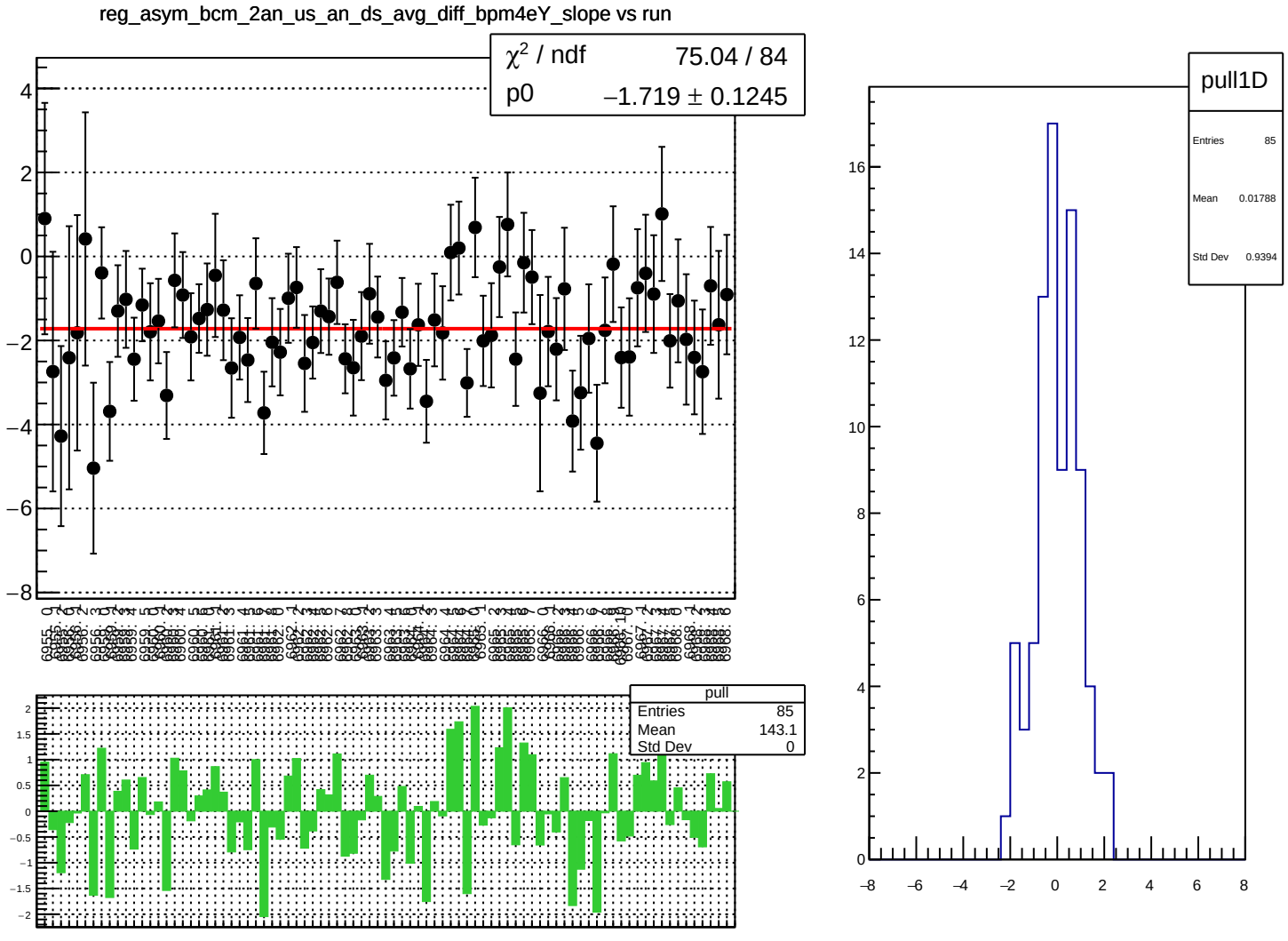

pull1D
Entries 85
Mean −0.05365
Std Dev 1.314

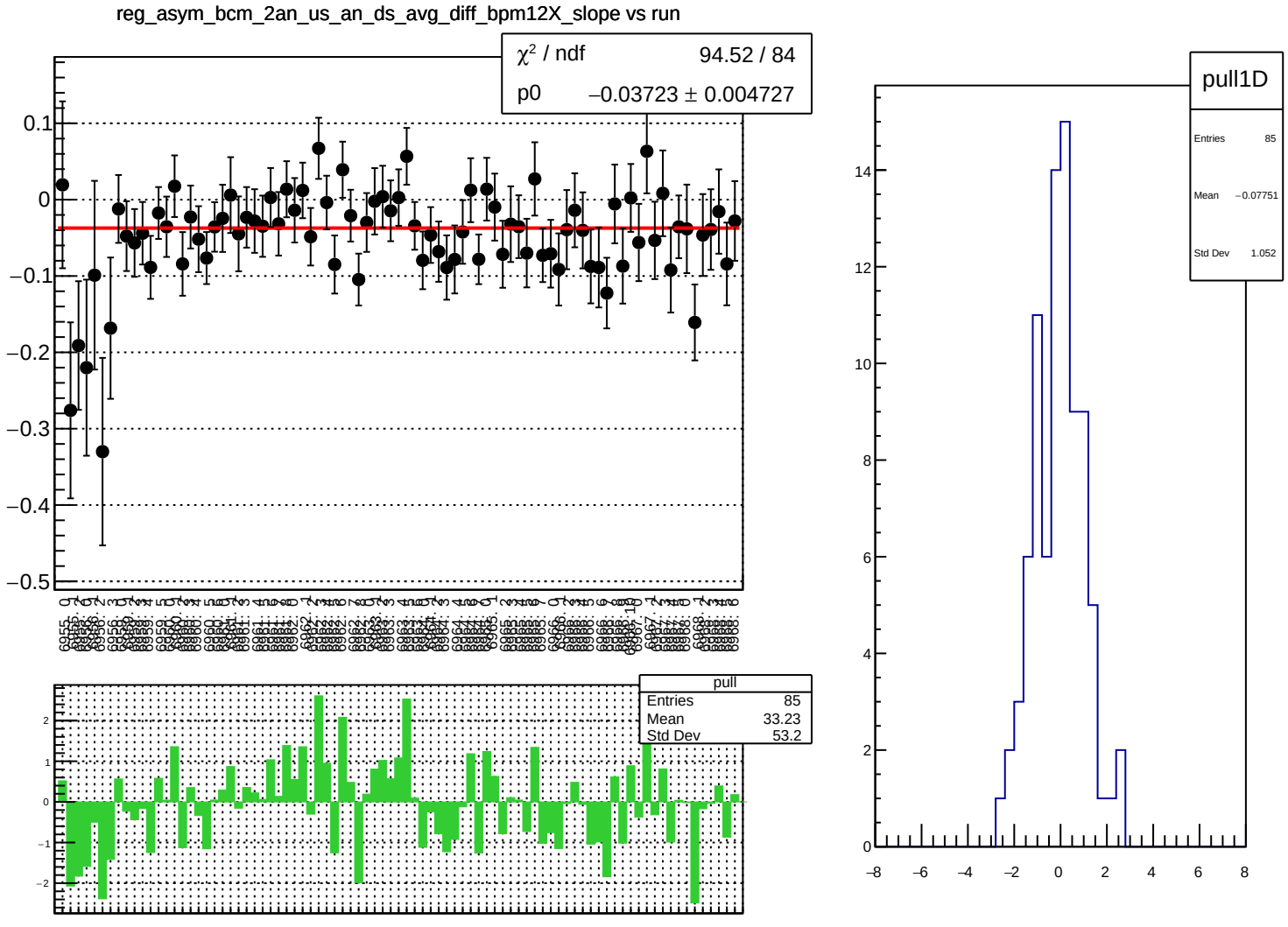

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 87.99 / 84
p0 −0.9246 ± 0.1614
pull
Entries 85
Mean −86.99
Std Dev 0
pull1D
Entries 85
Mean −0.04704
Std Dev 1.016

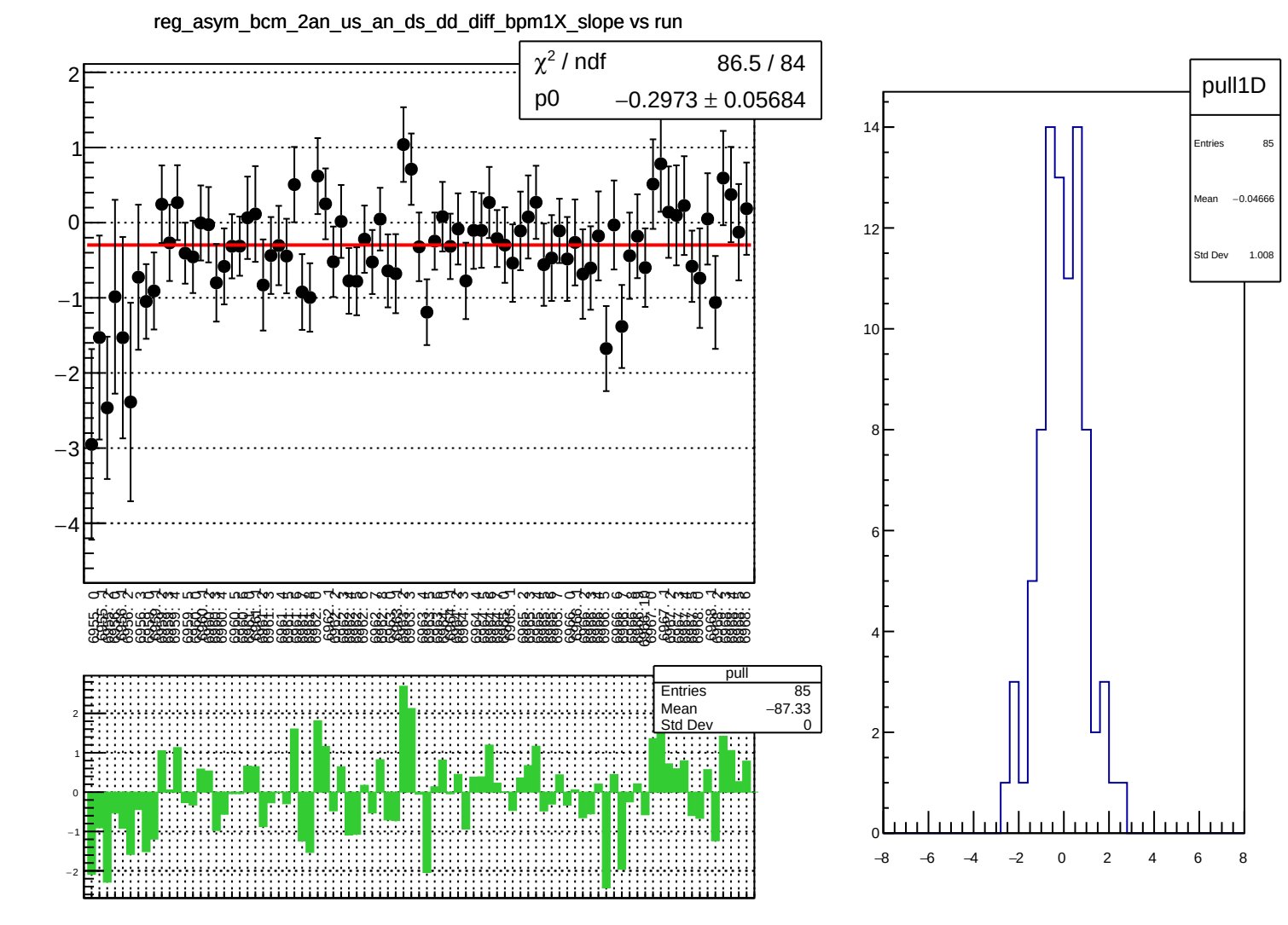

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.71 / 84
p0 1.147 ± 0.1098
pull
Entries 85
Mean 110.2
Std Dev 0
pull1D
Entries 85
Mean 0.01533
Std Dev 0.956

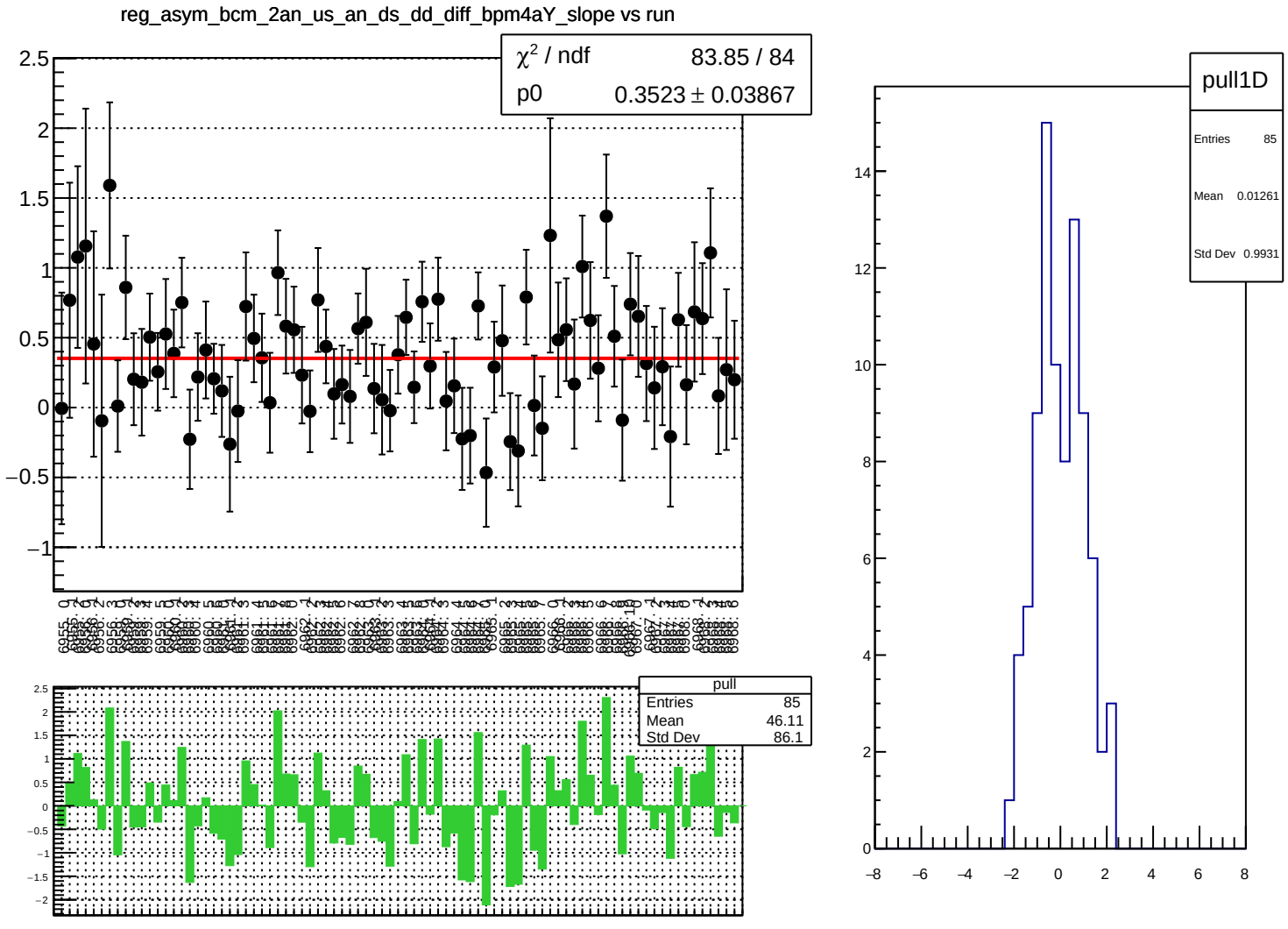

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.08 / 84
p0 0.5111 ± 0.1491
pull
Entries 85
Mean −192.8
Std Dev 0

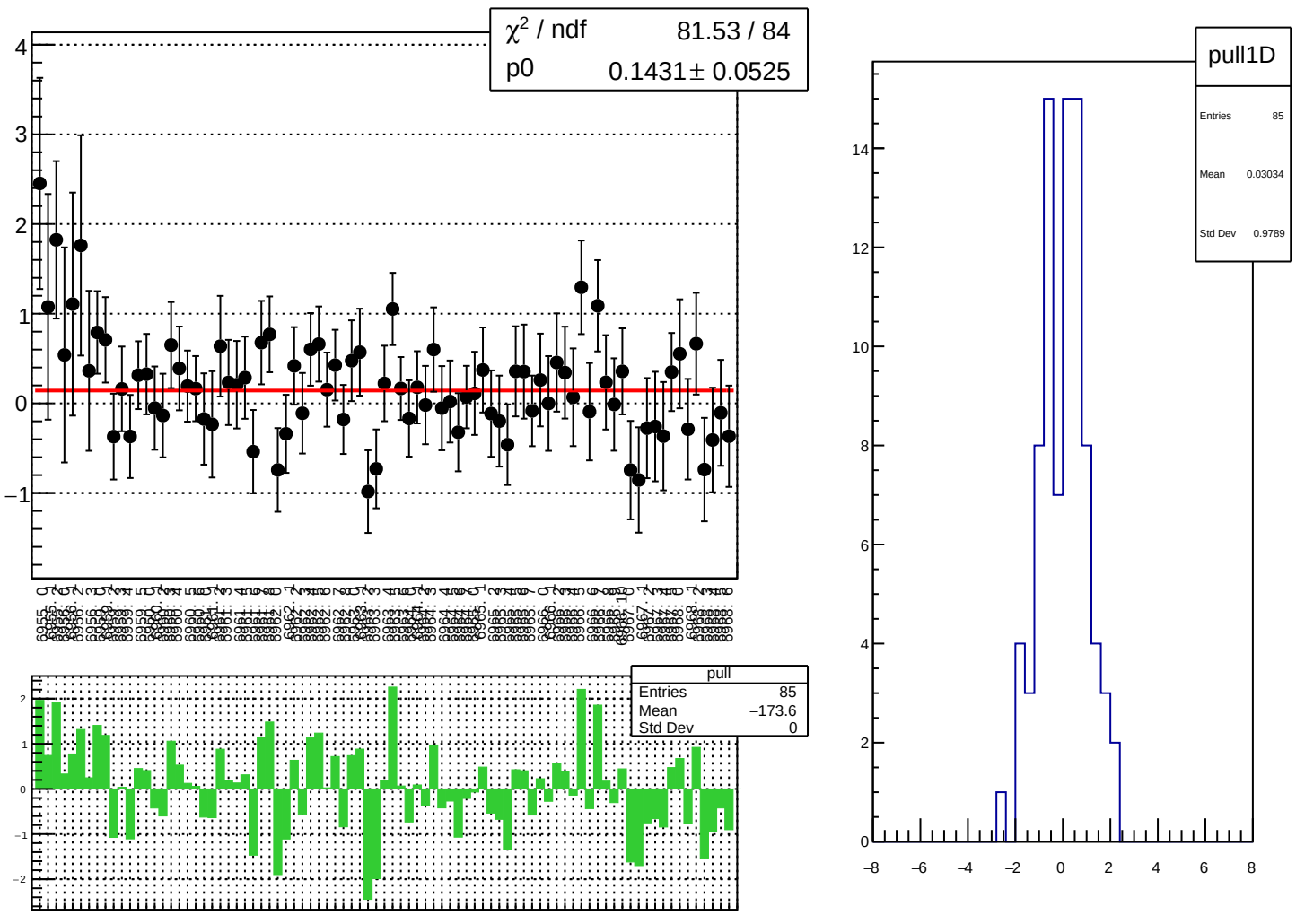

pull1D
Entries 85
Mean 0.02883
Std Dev 0.9941

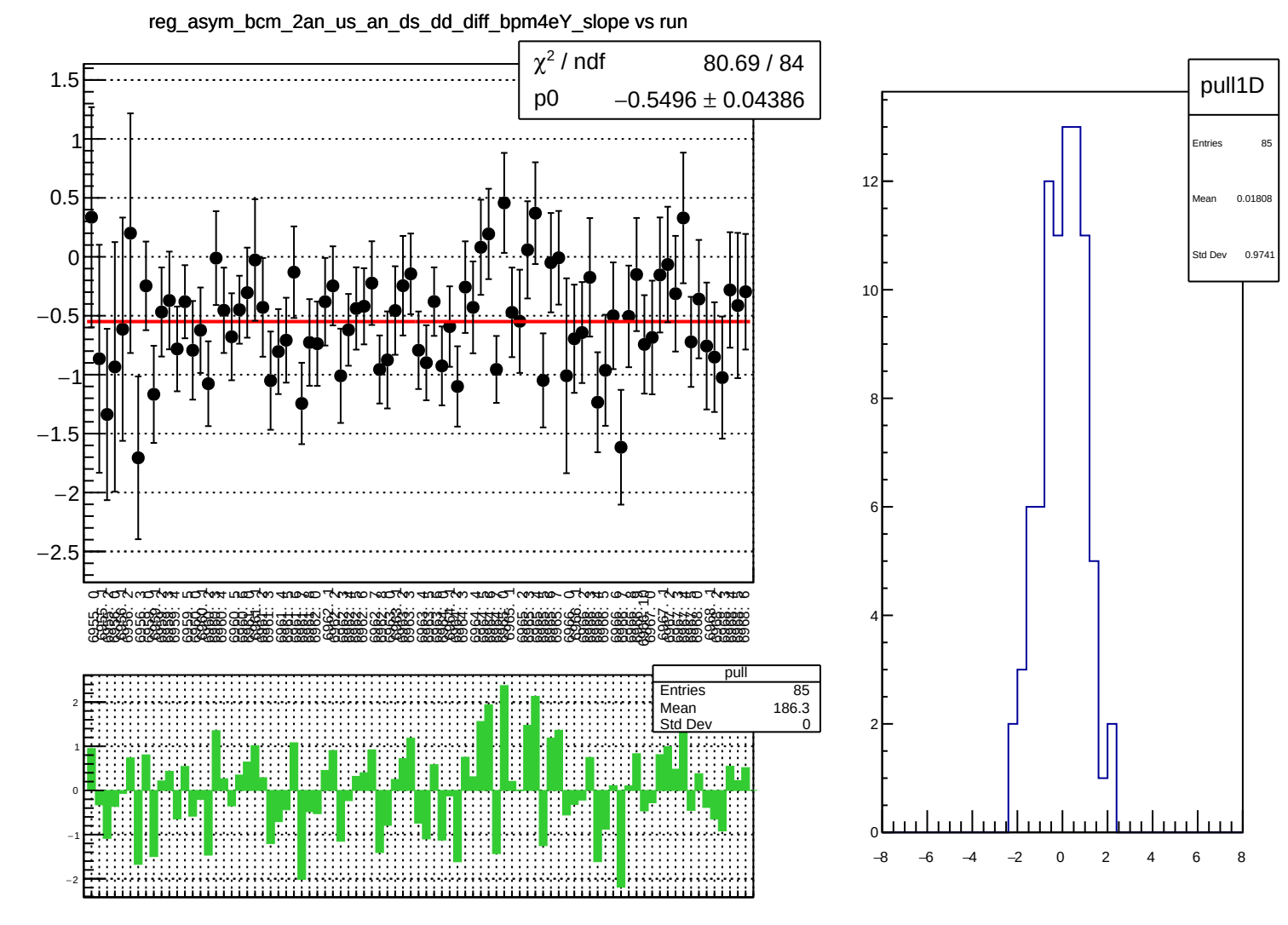

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.04 / 84
p0 −1.719 ± 0.1245
pull
Entries 85
Mean 143.1
Std Dev 0
pull1D
Entries 85
Mean 0.01788
Std Dev 0.9394

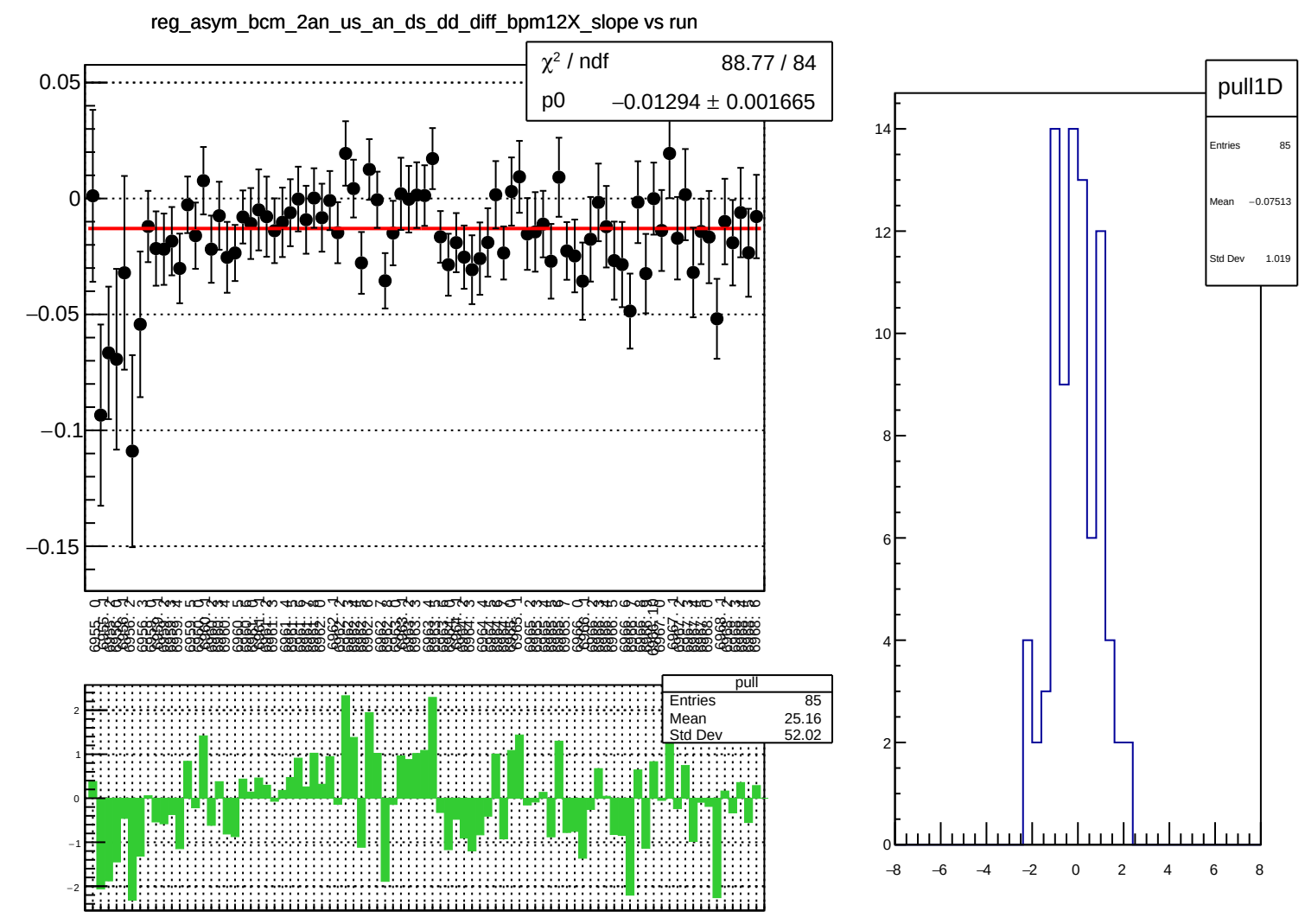

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 94.52 / 84
p0 −0.03723 ± 0.004727
pull
Entries 85
Mean 33.23
Std Dev 53.2
pull1D
Entries 85
Mean −0.07751
Std Dev 1.052

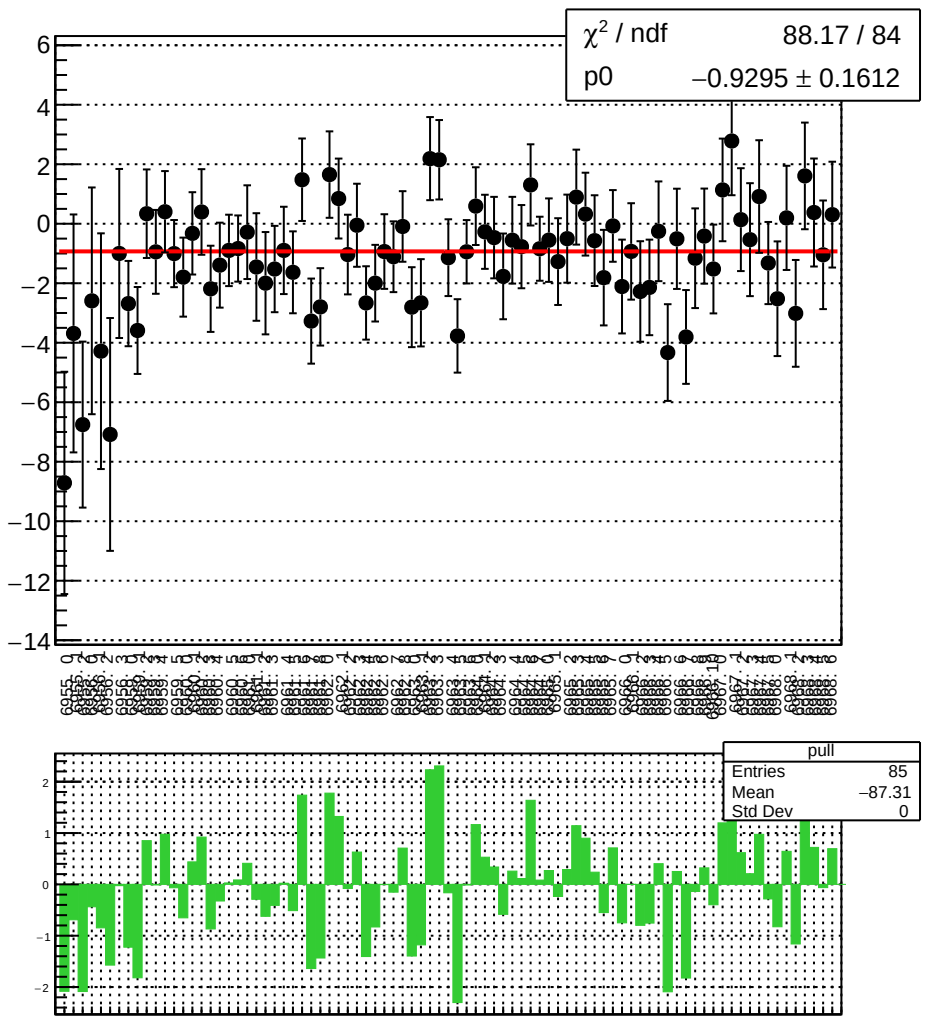

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 86.5 / 84
p0 −0.2973 ± 0.05684
pull
Entries 85
Mean −87.33
Std Dev 0
pull1D
Entries 85
Mean −0.04666
Std Dev 1.008

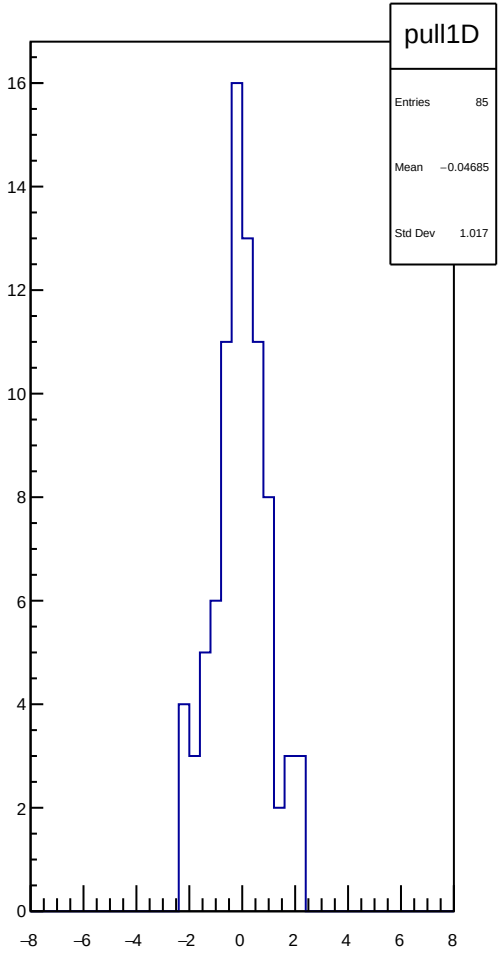

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.85 / 84
p0 0.3523 ± 0.03867
pull
Entries 85
Mean 46.11
Std Dev 86.1
pull1D
Entries 85
Mean 0.01261
Std Dev 0.9931

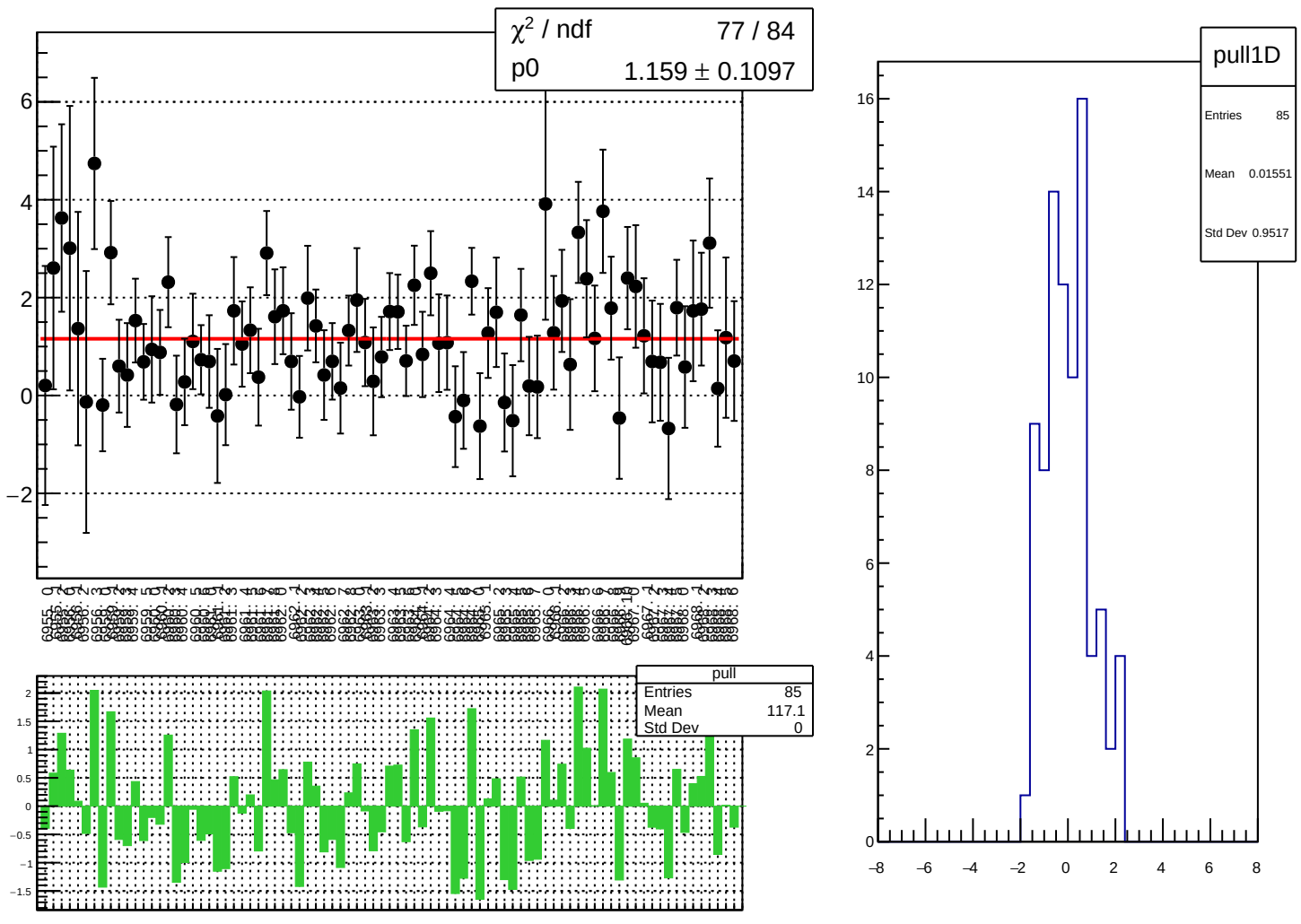

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.53 / 84
p0 0.1431 ± 0.0525
pull
Entries 85
Mean −173.6
Std Dev 0
pull1D
Entries 85
Mean 0.03034
Std Dev 0.9789

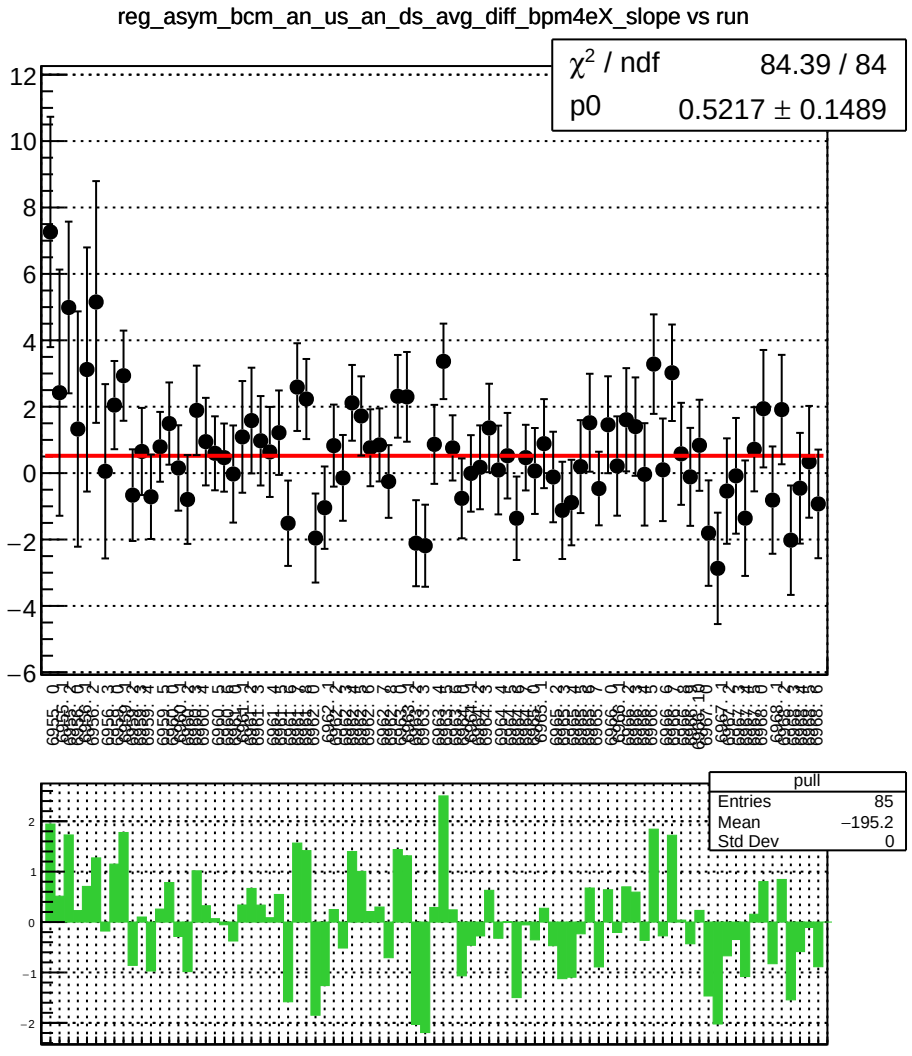

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.69 / 84
p0 −0.5496 ± 0.04386
pull
Entries 85
Mean 186.3
Std Dev 0
pull1D
Entries 85
Mean 0.01808
Std Dev 0.9741

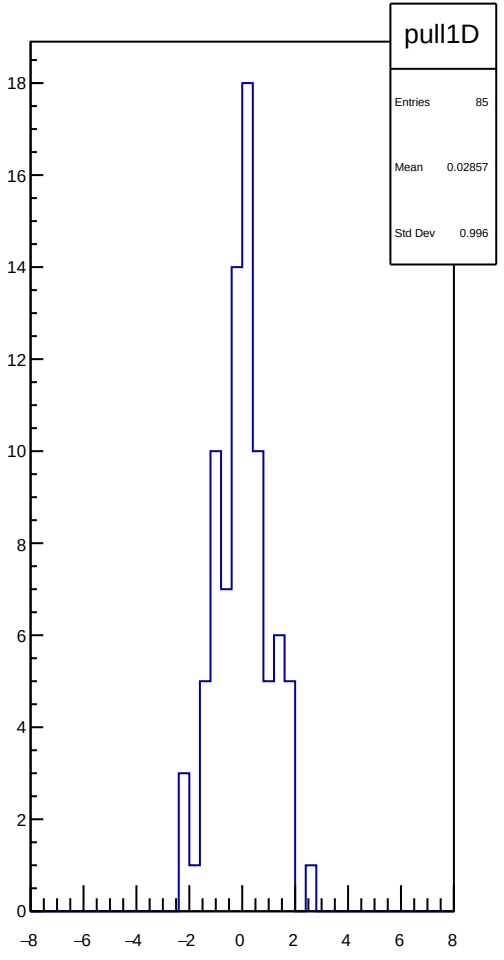

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 88.77 / 84
p0 −0.01294 ± 0.001665
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean 25.16
Std Dev 52.02
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.07513
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

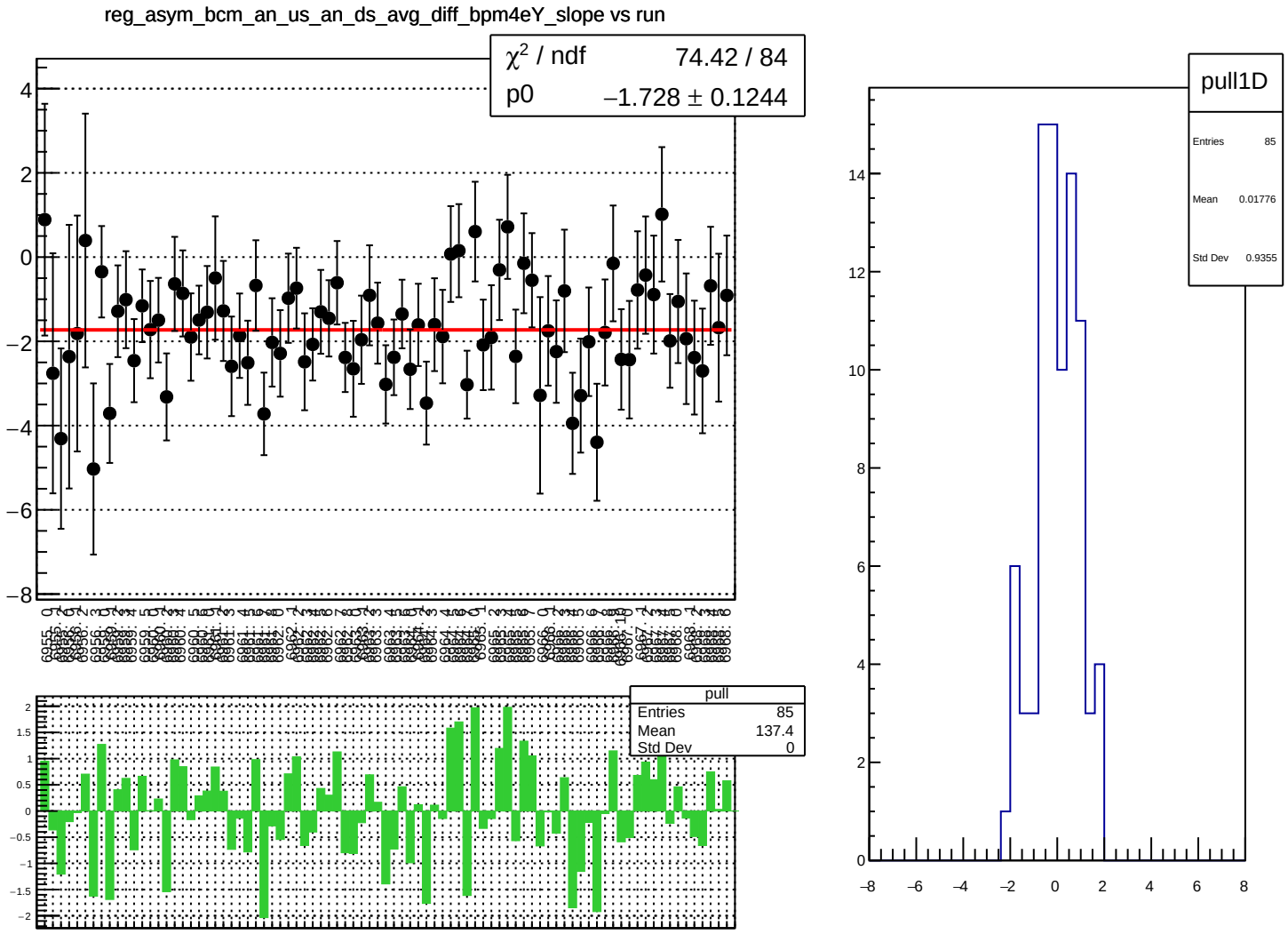

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 88.17 / 84
p0 −0.9295 ± 0.1612
pull
Entries 85
Mean −87.31
Std Dev 0

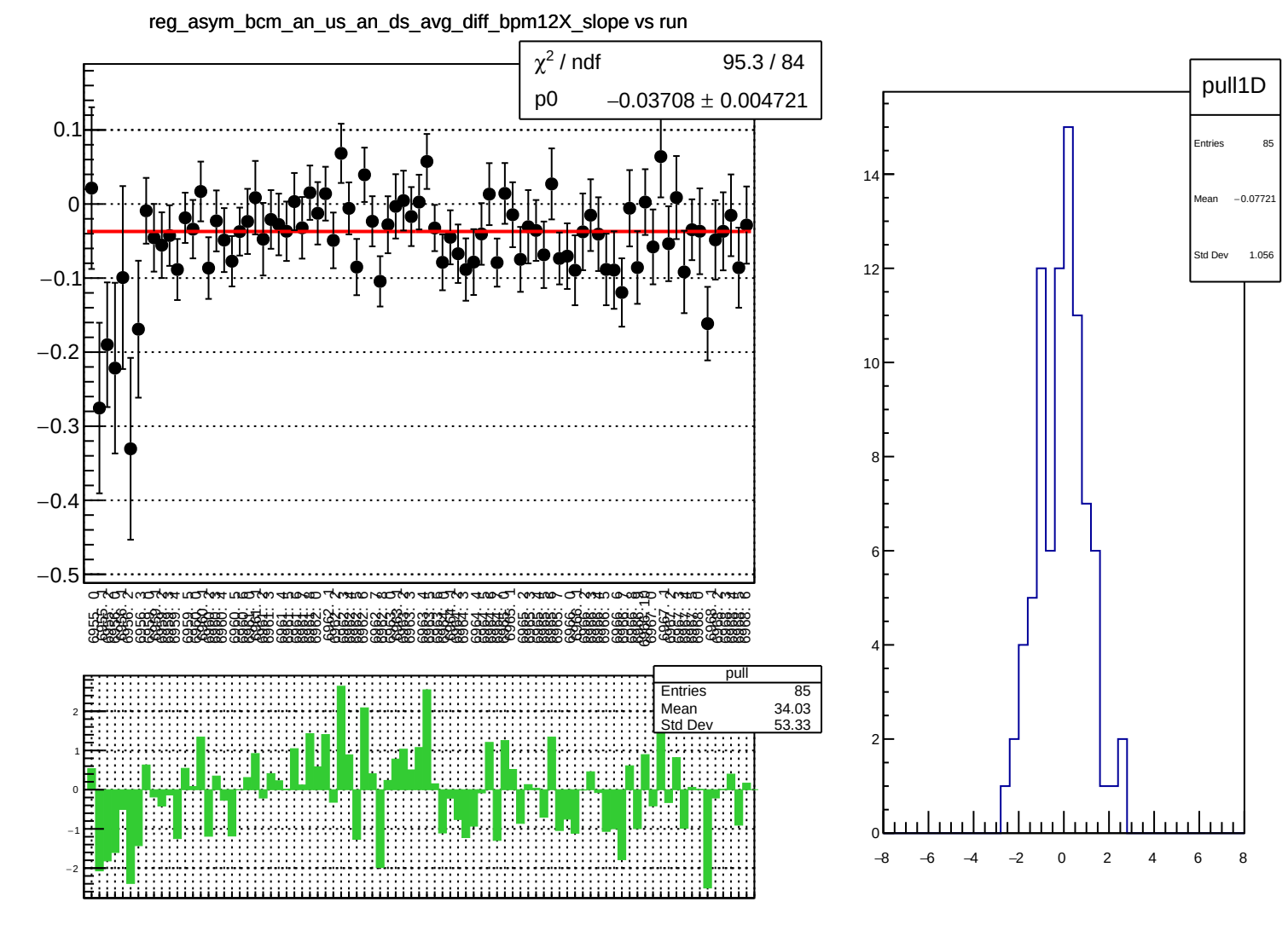

pull1D
Entries 85
Mean −0.04685
Std Dev 1.017

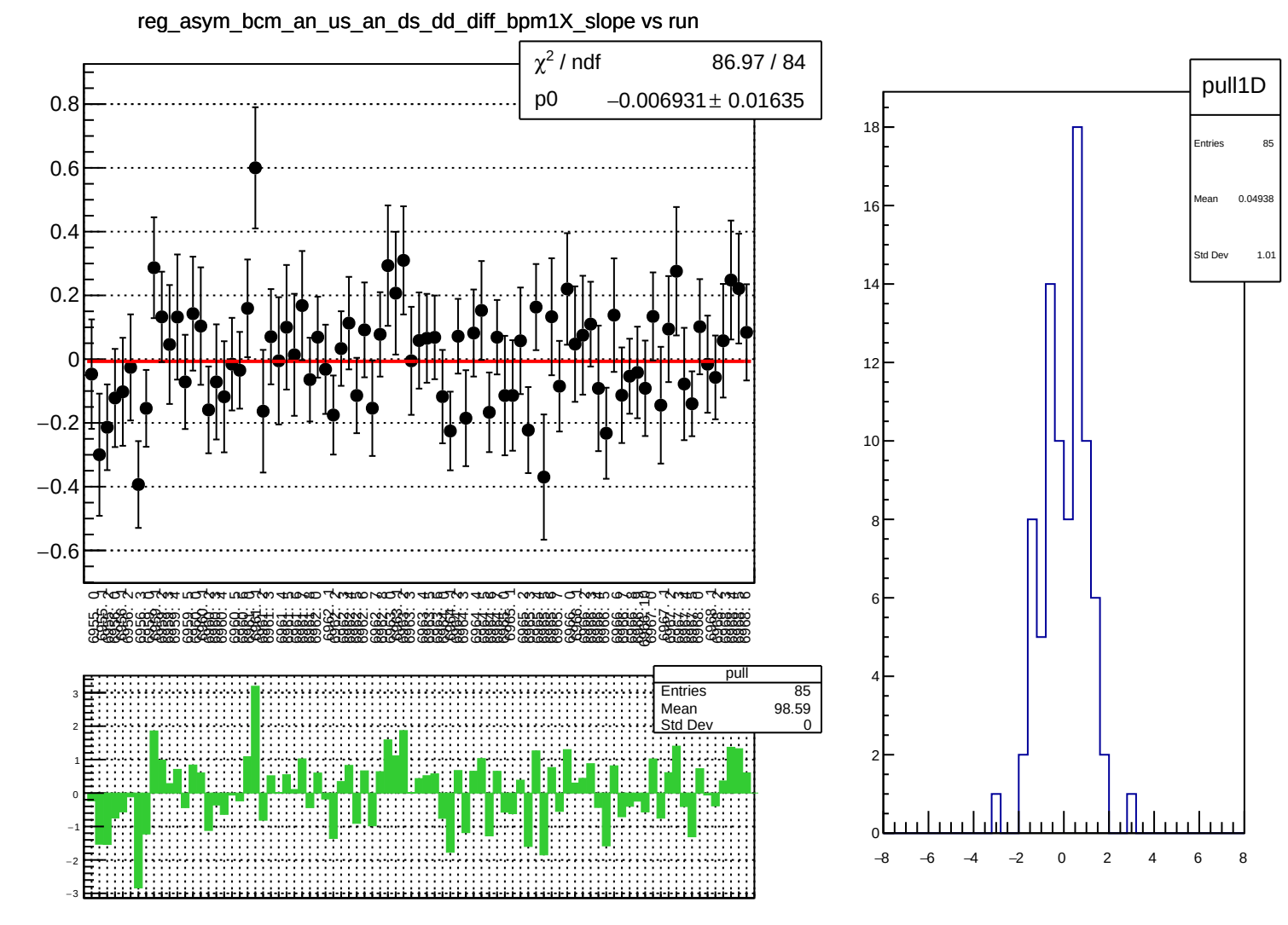

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 77 / 84
p0 1.159 ± 0.1097
pull
Entries 85
Mean 117.1
Std Dev 0
pull1D
Entries 85
Mean 0.01551
Std Dev 0.9517

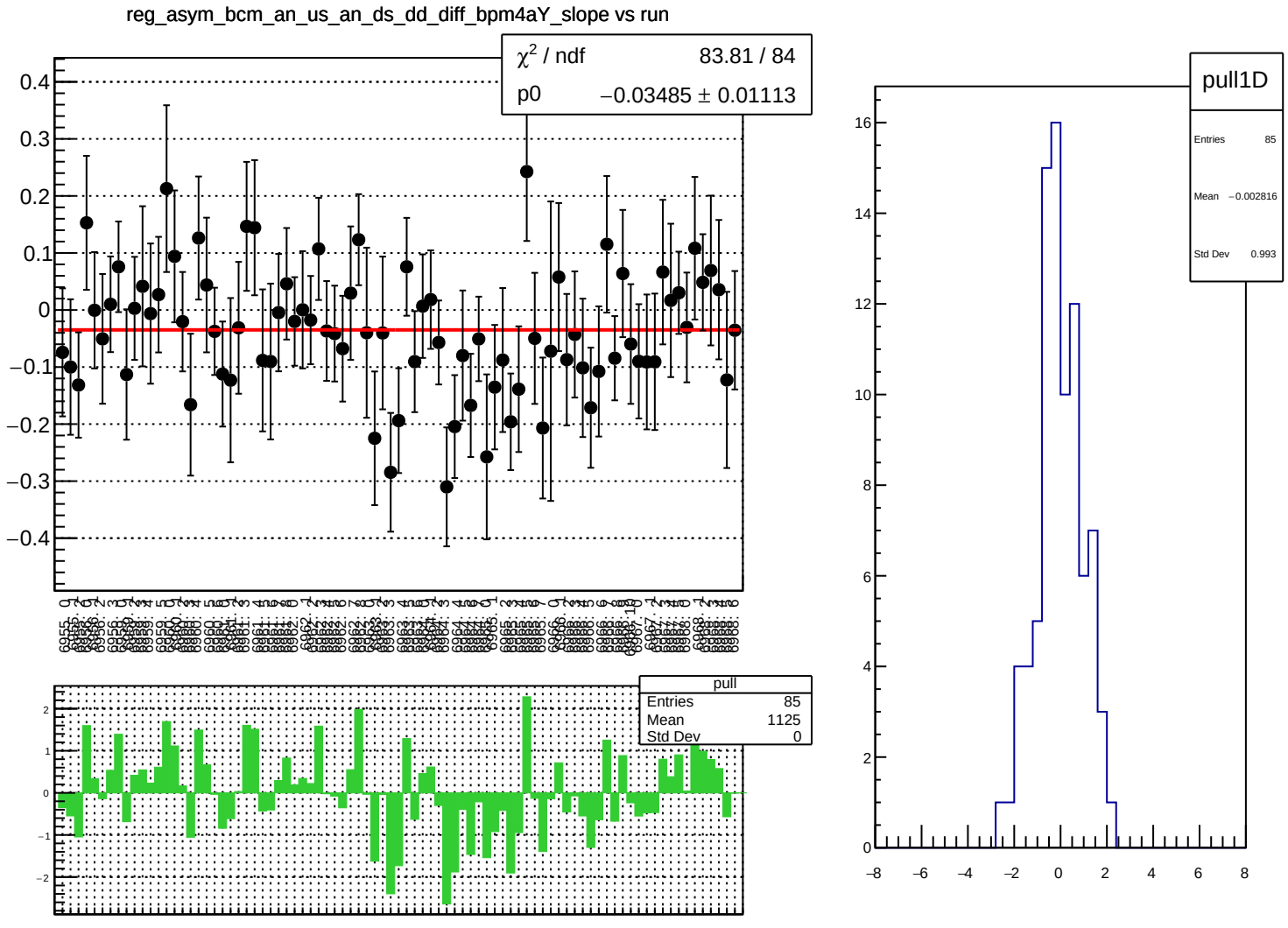

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.39 / 84
p0 0.5217 ± 0.1489
pull
Entries 85
Mean −195.2
Std Dev 0

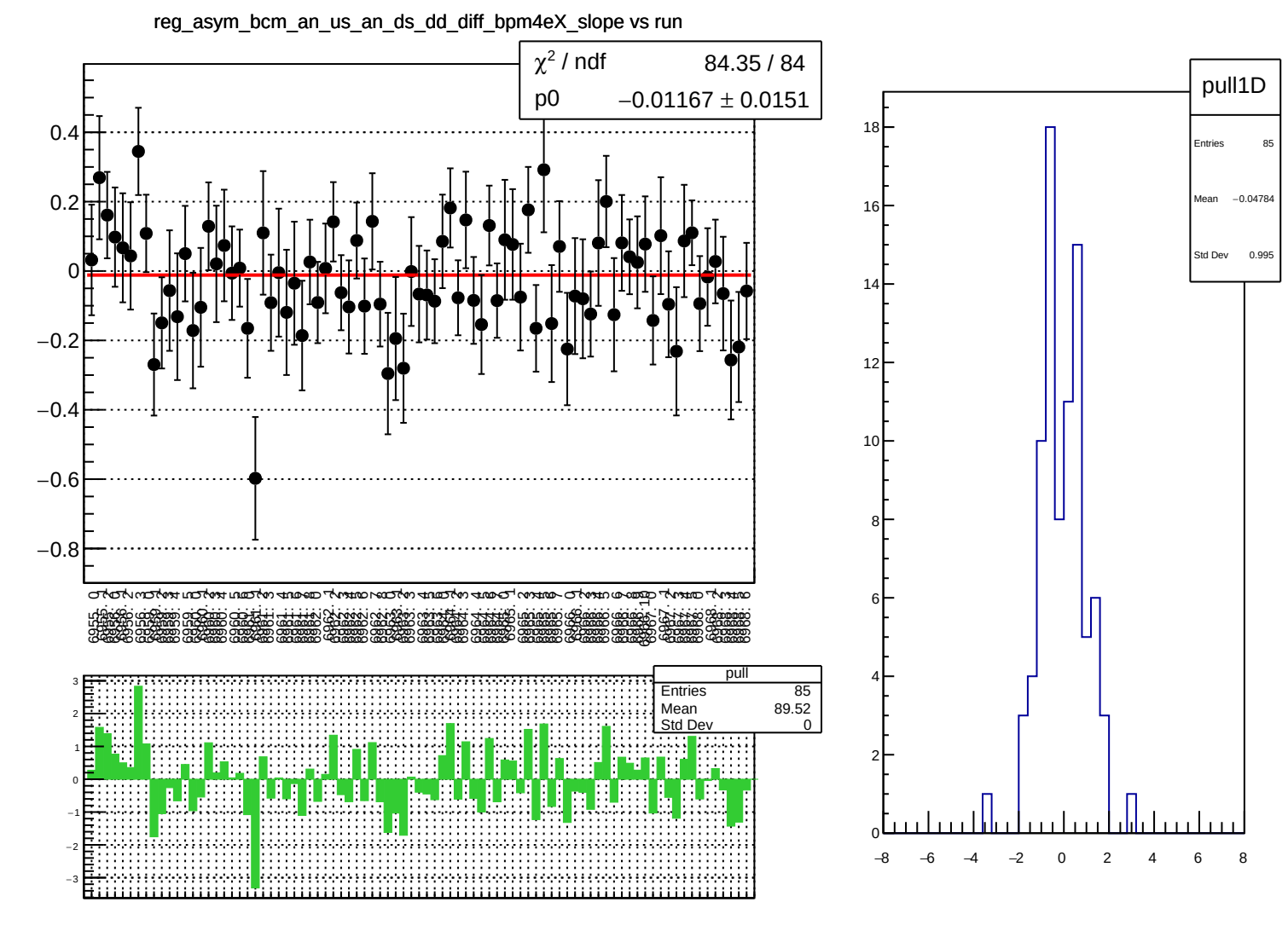

pull1D
Entries 85
Mean 0.02857
Std Dev 0.996

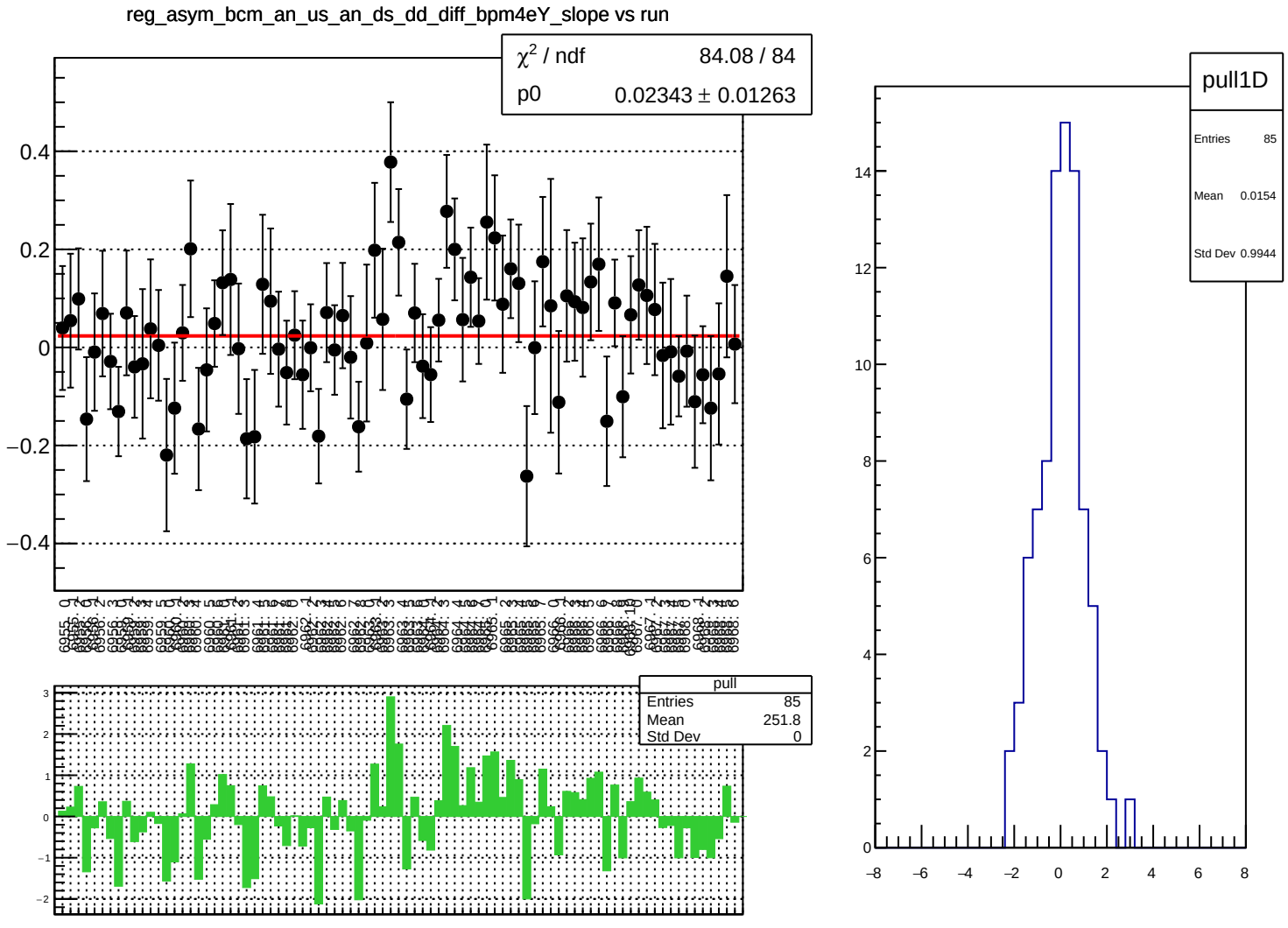

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.42 / 84
p0 −1.728 ± 0.1244
pull
Entries 85
Mean 137.4
Std Dev 0
pull1D
Entries 85
Mean 0.01776
Std Dev 0.9355

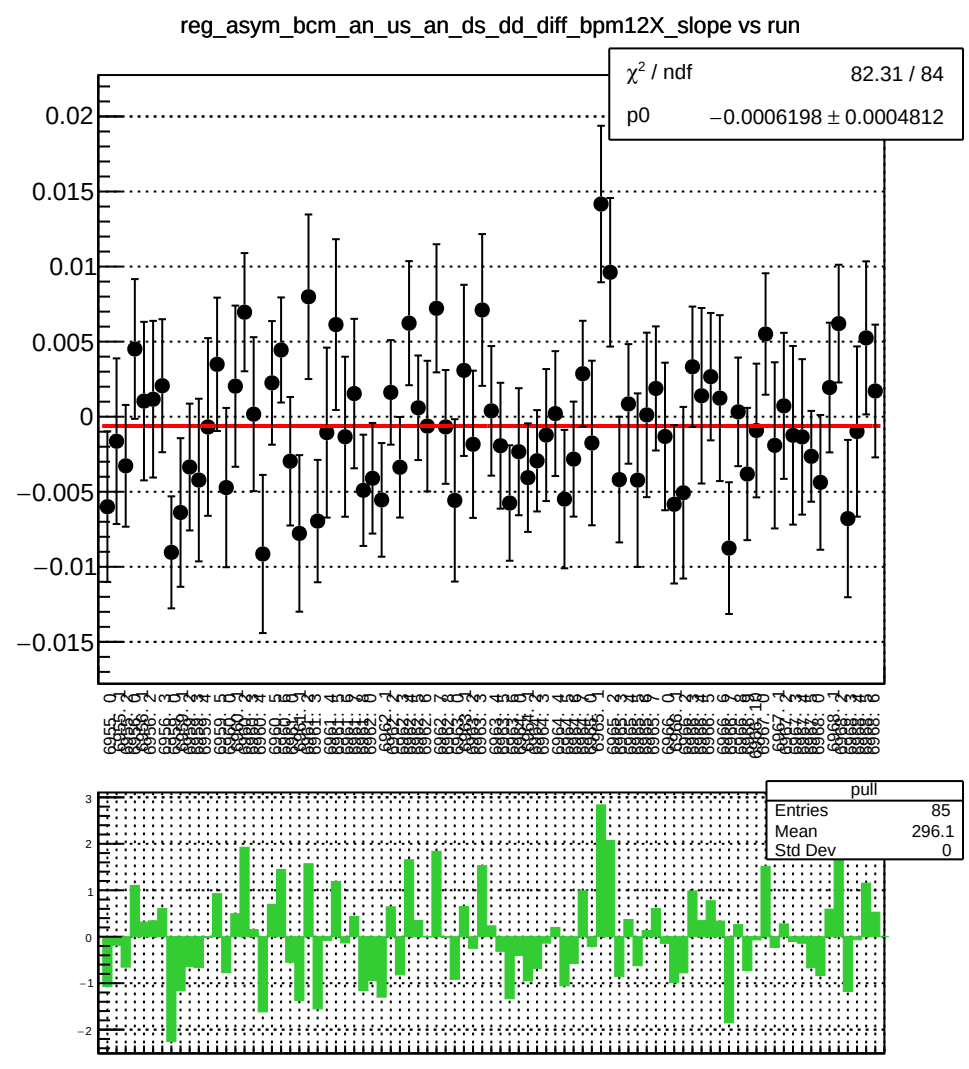

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 95.3 / 84
p0 −0.03708 ± 0.004721
pull
Entries 85
Mean 34.03
Std Dev 53.33
pull1D
Entries 85
Mean −0.07721
Std Dev 1.056

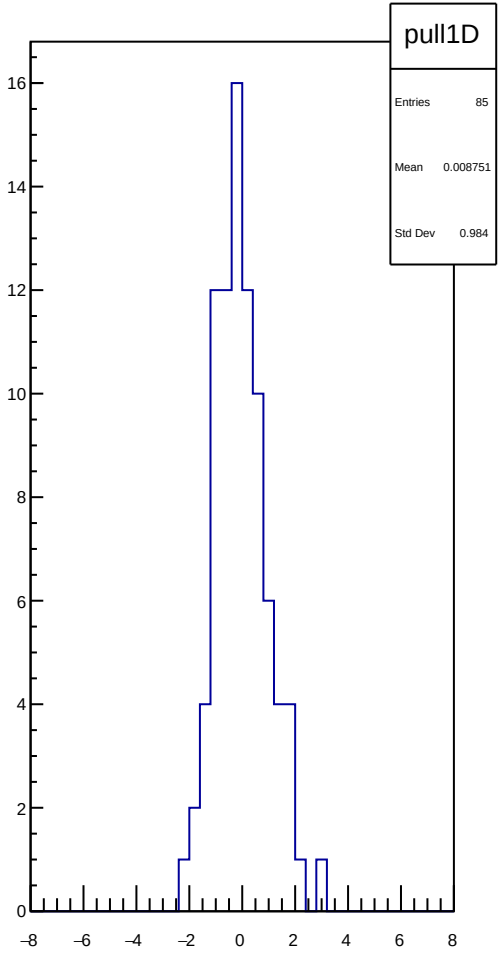

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 86.97 / 84
p0 −0.006931 ± 0.01635
pull
Entries 85
Mean 98.59
Std Dev 0
pull1D
Entries 85
Mean 0.04938
Std Dev 1.01

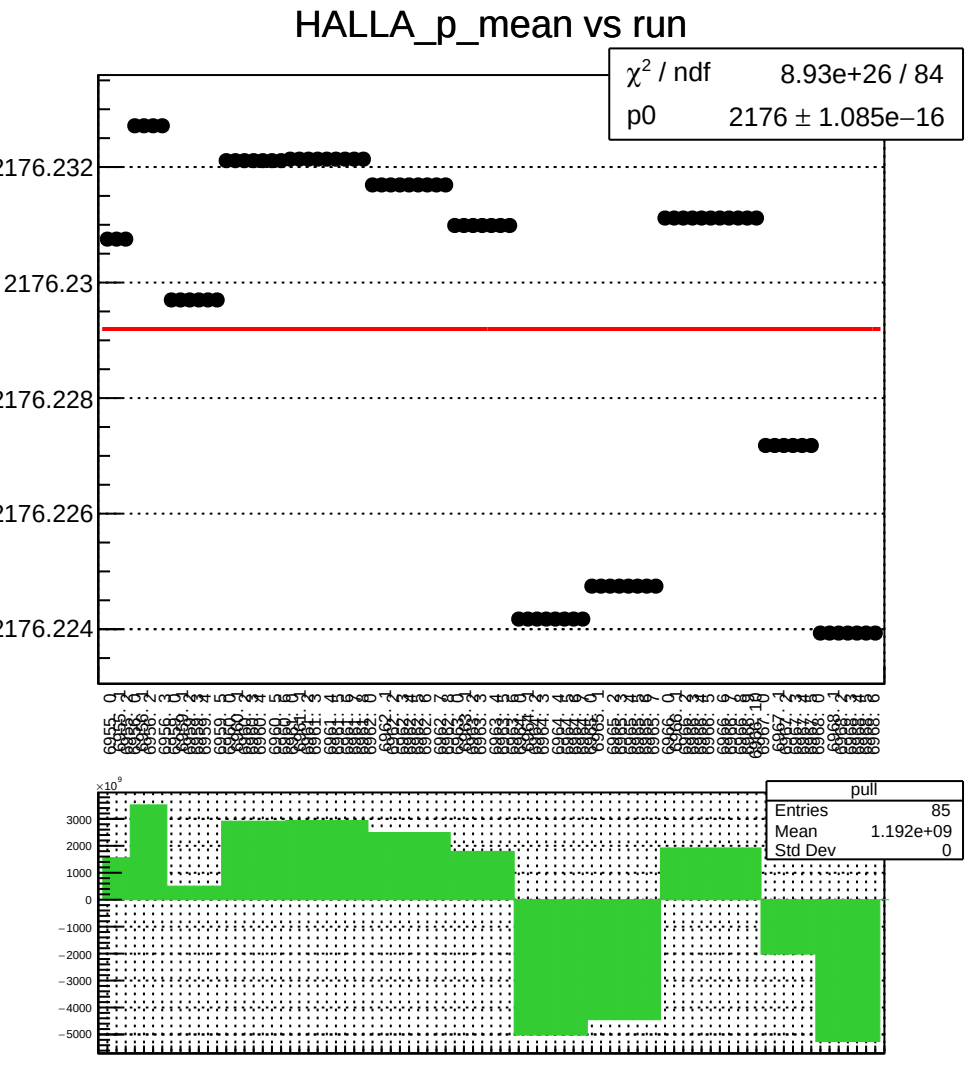

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.81 / 84
p0 −0.03485 ± 0.01113
pull
Entries 85
Mean 1125
Std Dev 0
pull1D
Entries 85
Mean −0.002816
Std Dev 0.993

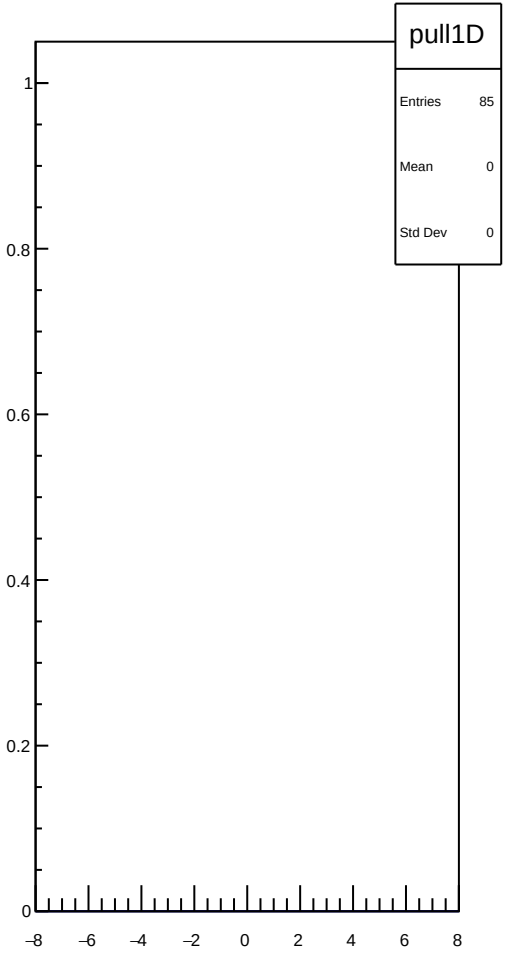

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.35 / 84
p0 −0.01167 ± 0.0151
pull
Entries 85
Mean 89.52
Std Dev 0
pull1D
Entries 85
Mean −0.04784
Std Dev 0.995

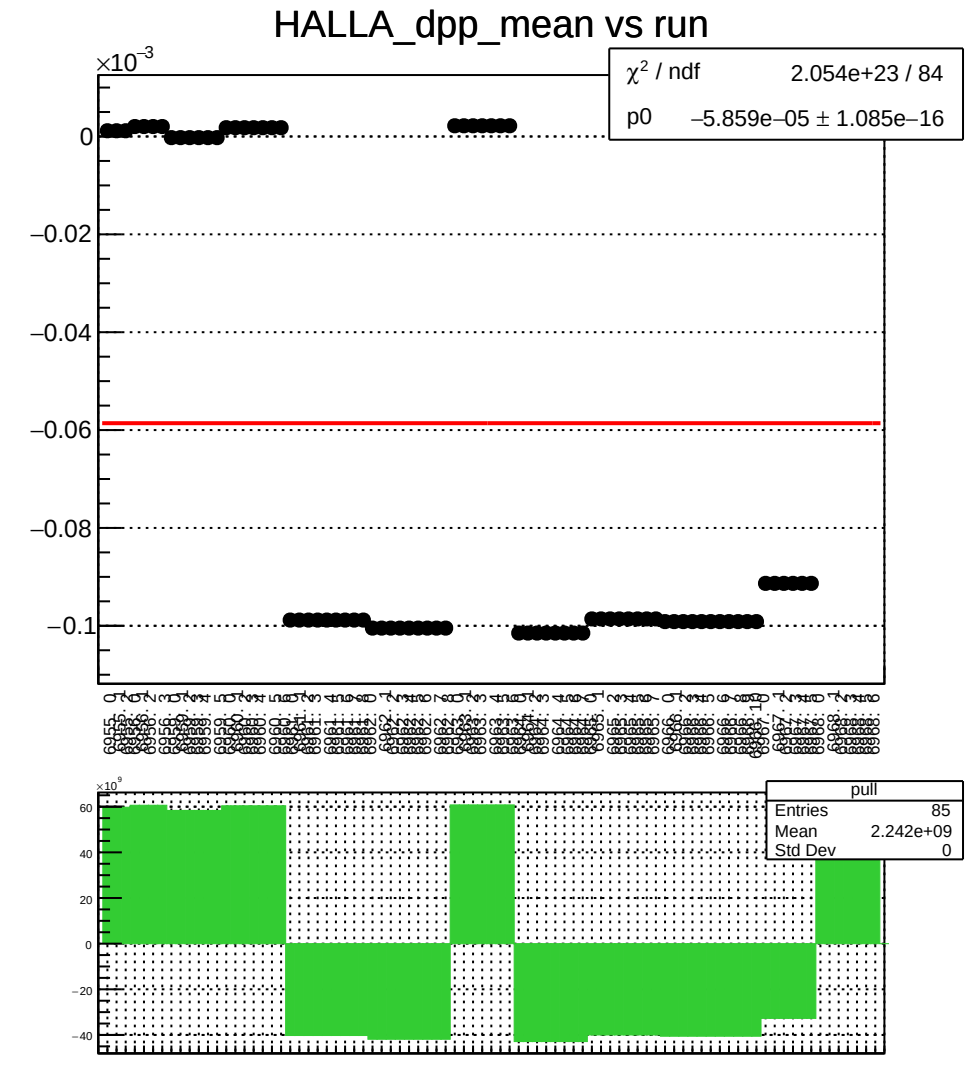

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.08 / 84
p0 0.02343 ± 0.01263
pull
Entries 85
Mean 251.8
Std Dev 0
pull1D
Entries 85
Mean 0.0154
Std Dev 0.9944

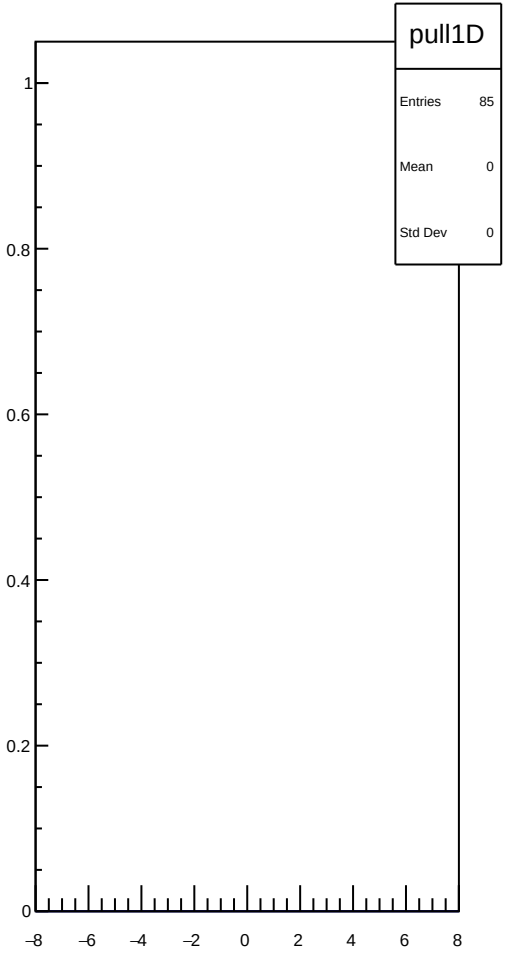

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 82.31 / 84
p0 −0.0006198 ± 0.0004812
pull
Entries 85
Mean 296.1
Std Dev 0

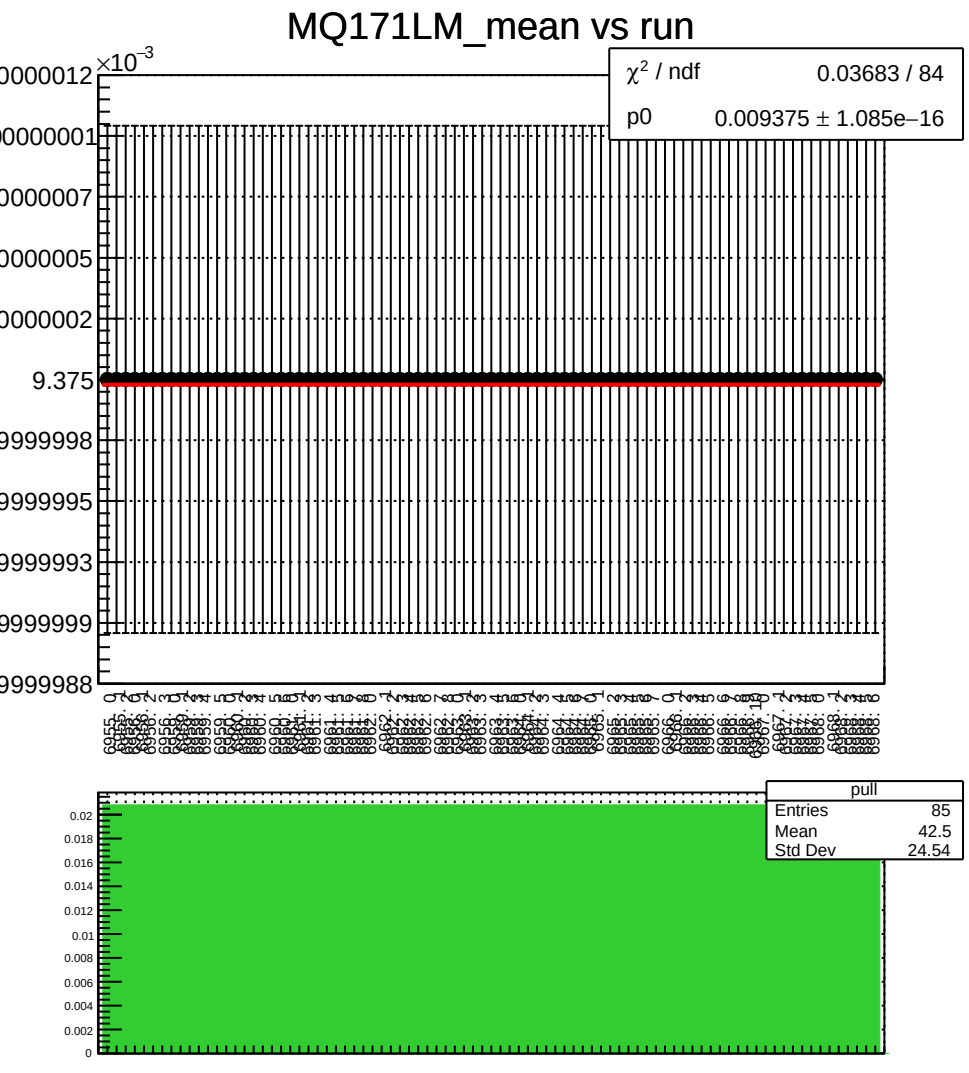

pull1D
Entries 85
Mean 0.008751
Std Dev 0.984

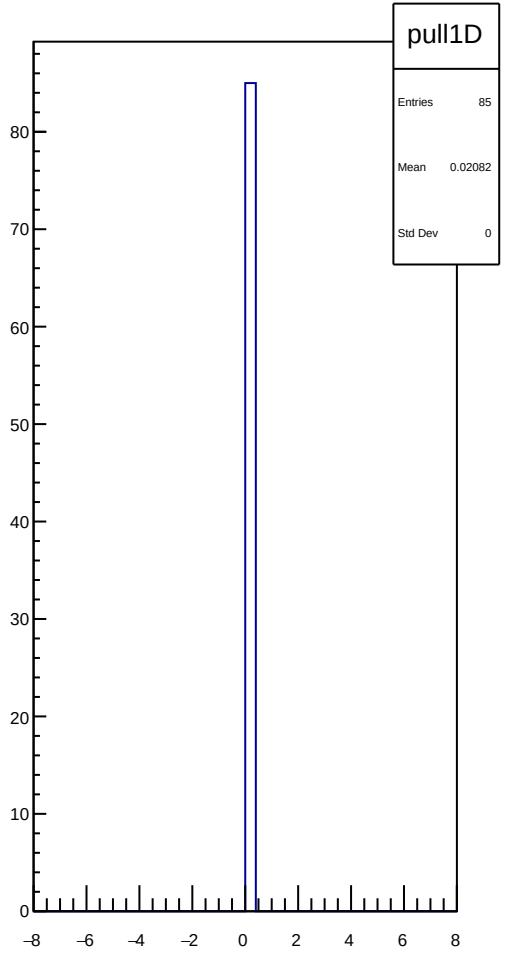

HALLA_p_mean vs run
χ² / ndf 8.93e+26 / 84
p0 2176 ± 1.085e−16
2176.232
2176.23
2176.228
2176.226
2176.224
pull
Entries 85
Mean 1.192e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000

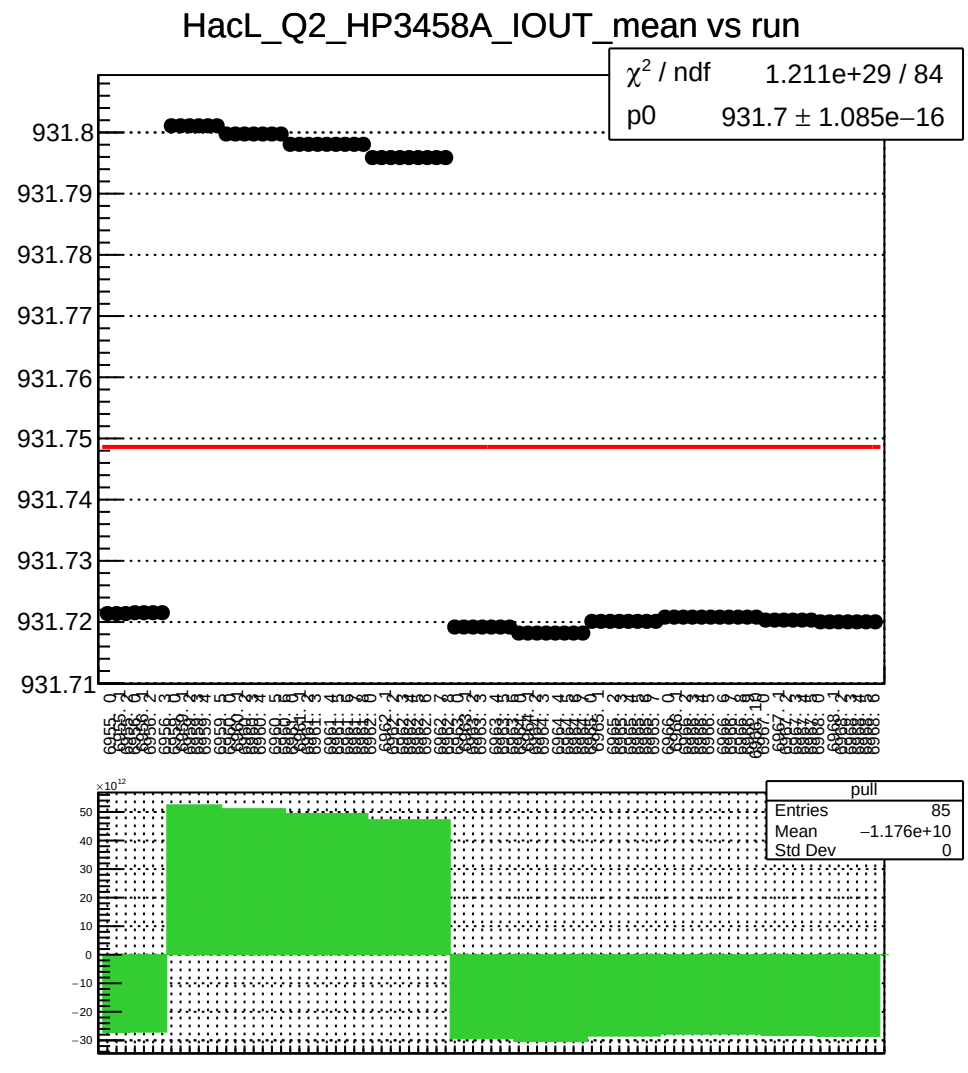

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

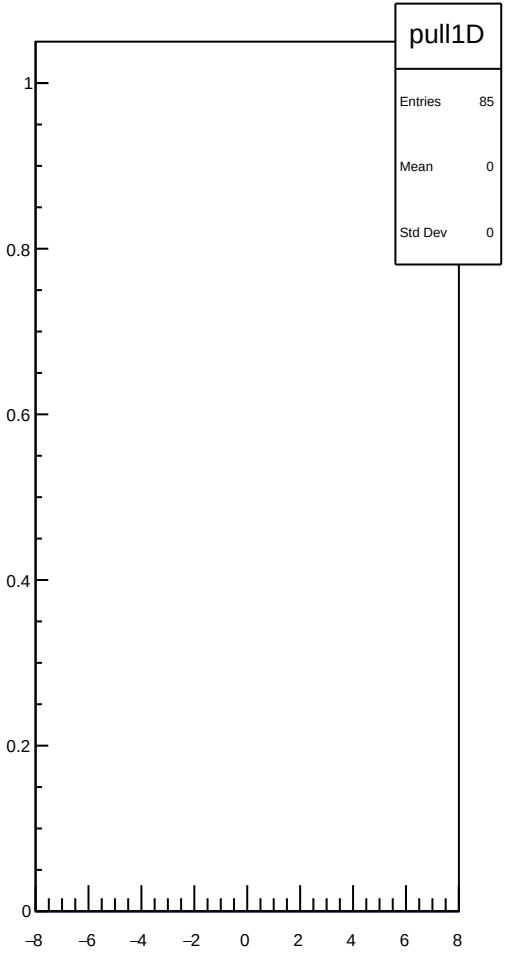

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.054e+23 / 84
p0 −5.859e−05 ± 1.085e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
60
40
20
0
−20
−40
pull
Entries 85
Mean 2.242e+09
Std Dev 0

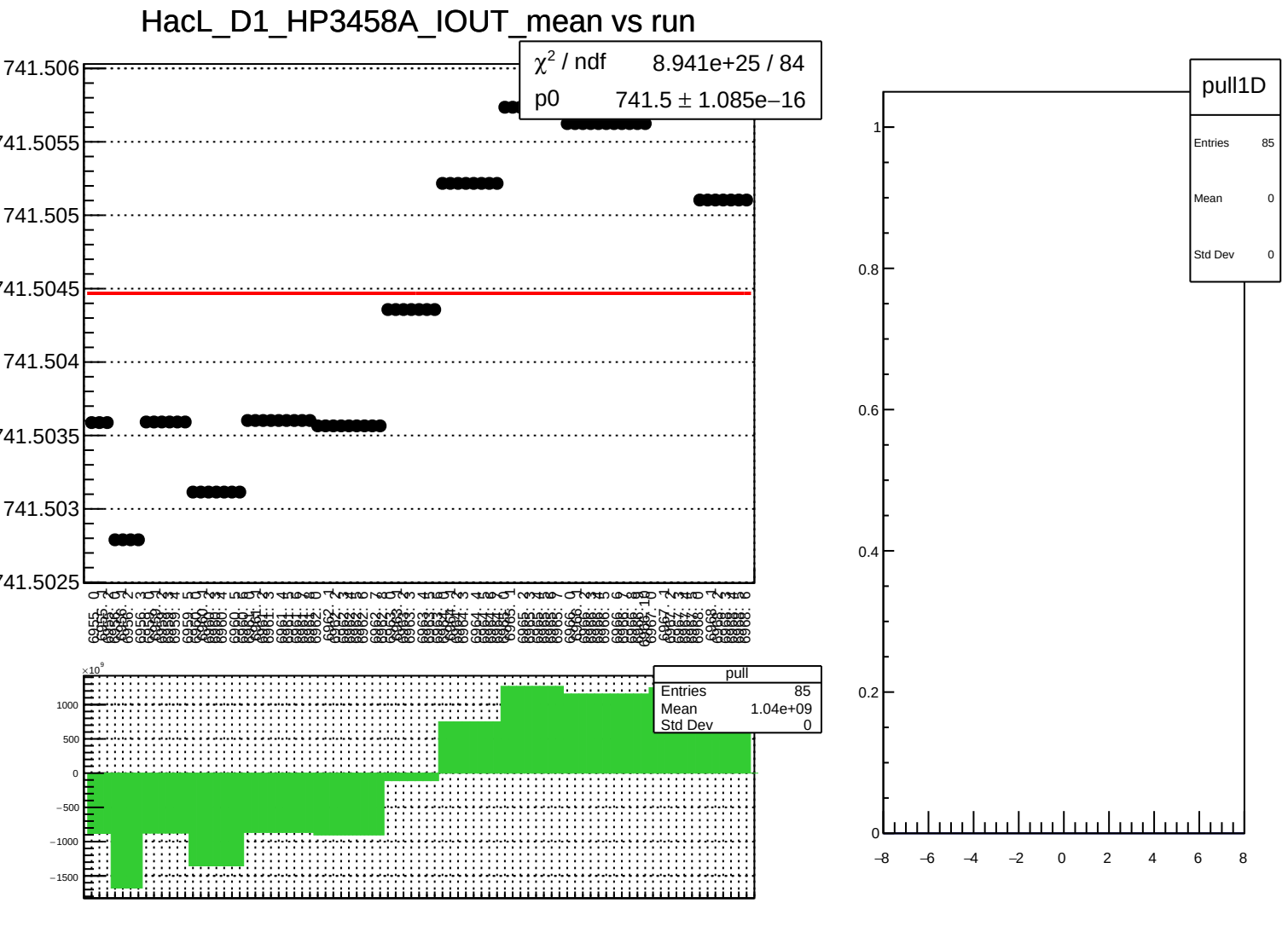

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

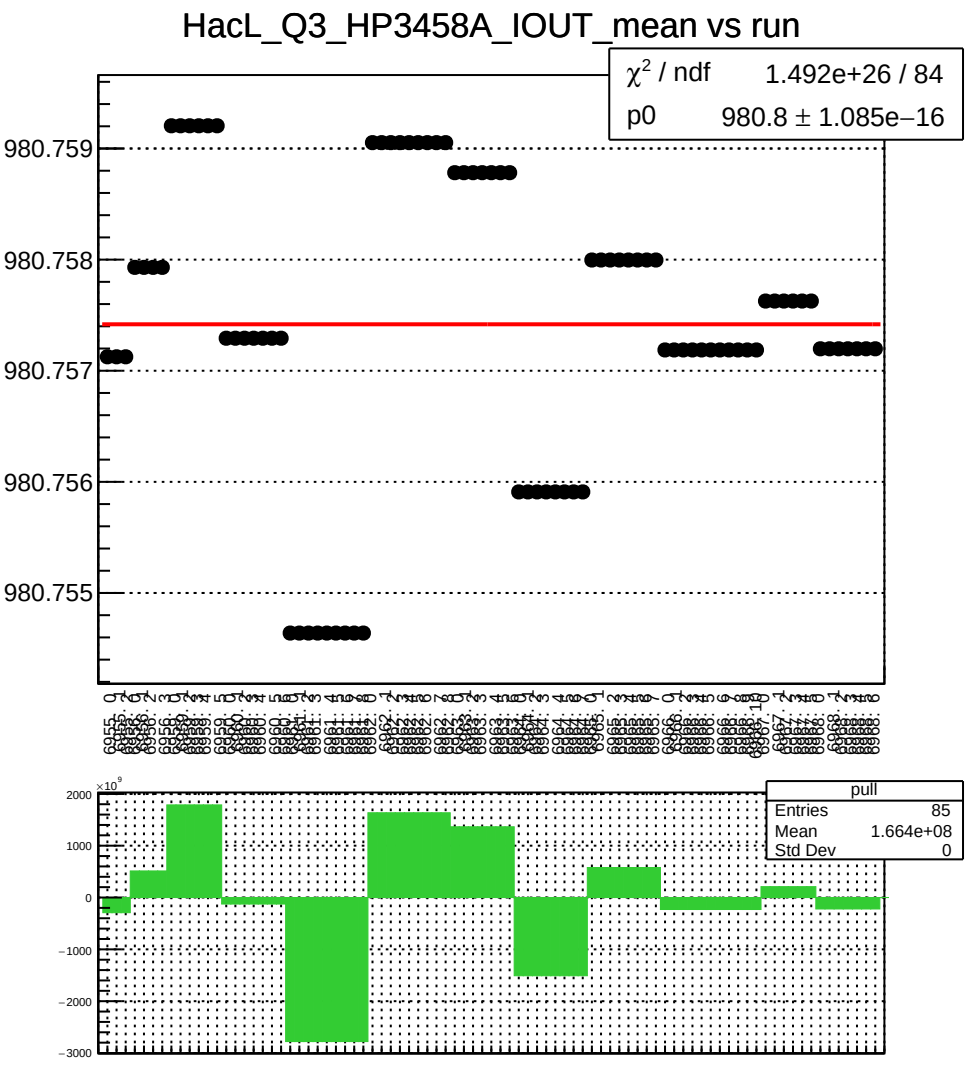

MQ171LM_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
9.375
pull
Entries 85
Mean 42.5
Std Dev 24.54

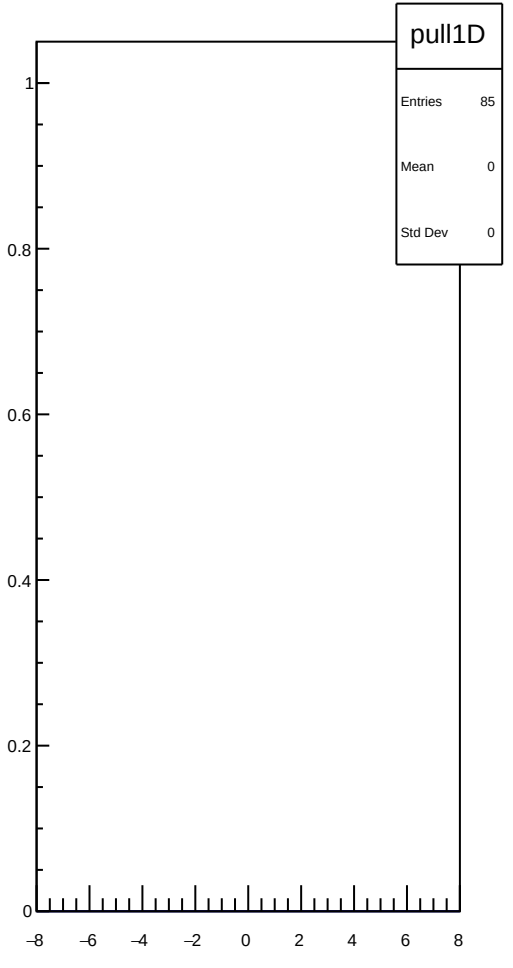

pull1D
Entries 85
Mean 0.02082
Std Dev 0

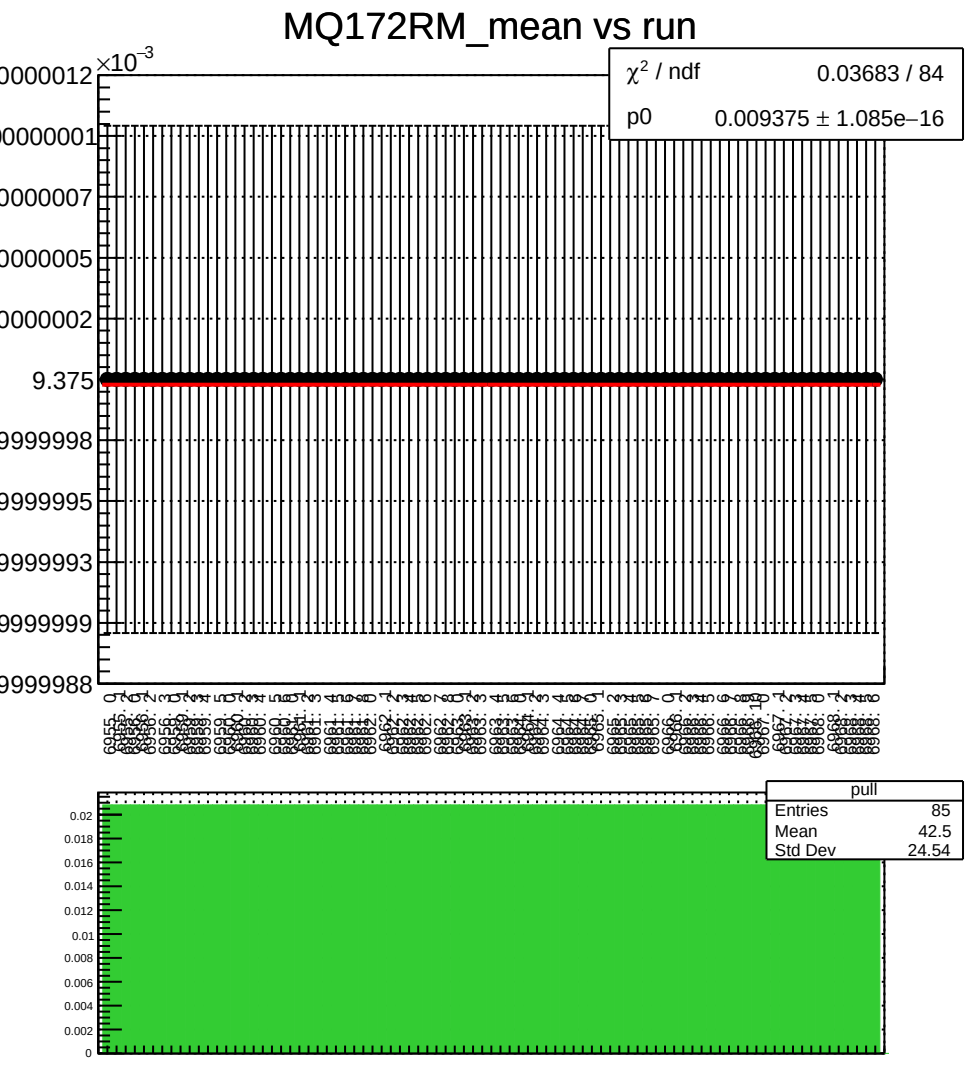

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.211e+29 / 84
p0 931.7 ± 1.085e−16
931.8
931.79
931.78
931.77
931.76
931.75
931.74
931.73
931.72
931.71
pull
Entries 85
Mean −1.176e+10
Std Dev 0
×10¹²
50
40
30
20
10
0
−10
−20
−30

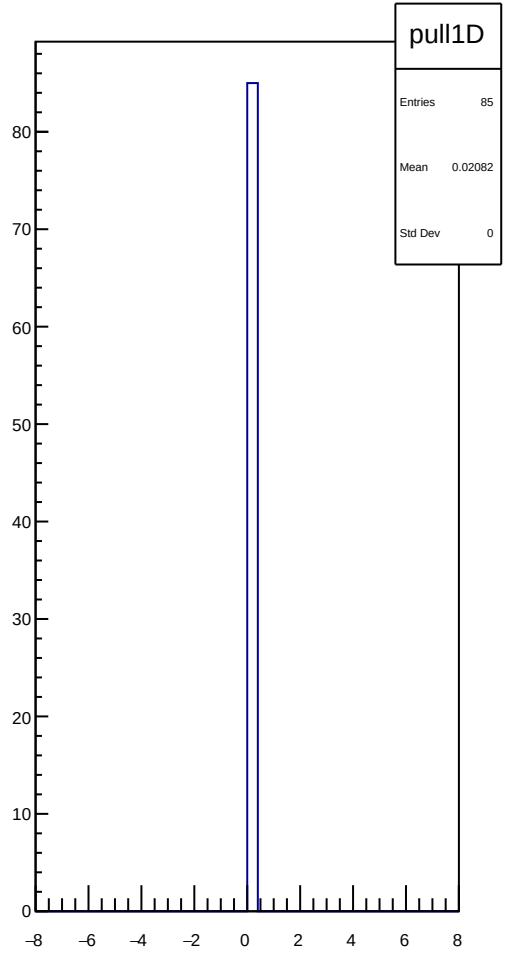

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

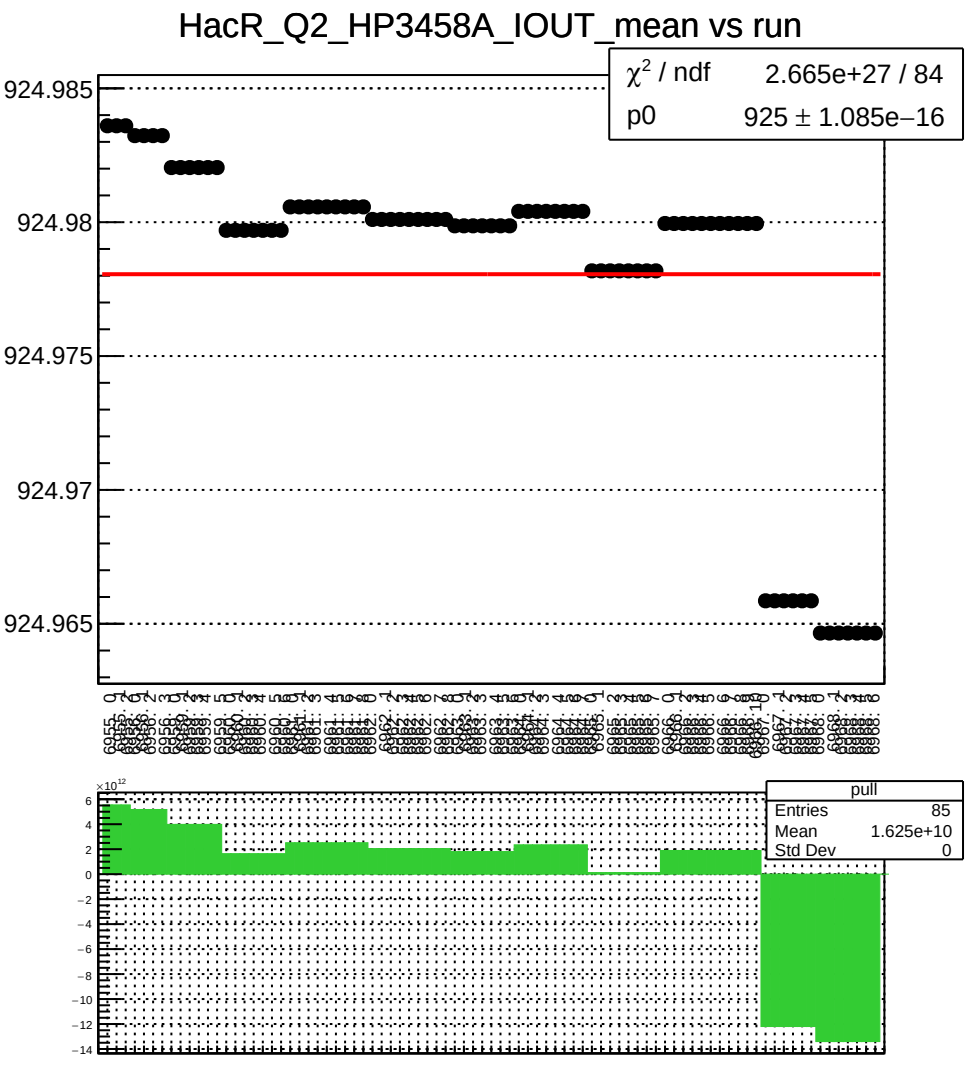

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 8.941e+25 / 84
p0 741.5 ± 1.085e−16
741.506
741.5055
741.505
741.5045
741.504
741.5035
741.503
741.5025
pull
Entries 85
Mean 1.04e+09
Std Dev 0
×10⁹
1000
500
0
−500
−1000
−1500
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

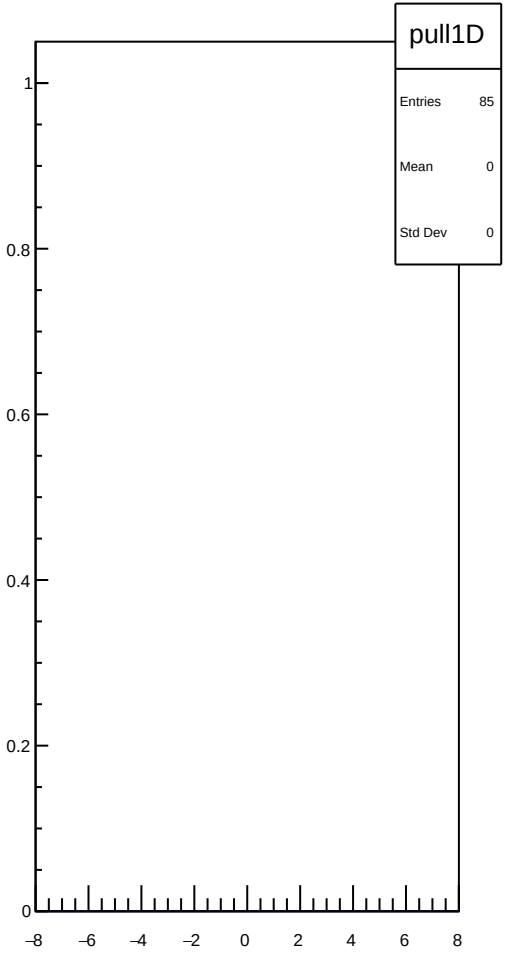

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.492e+26 / 84
p0 980.8 ± 1.085e−16
980.759
980.758
980.757
980.756
980.755
×10⁹
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 1.664e+08
Std Dev 0

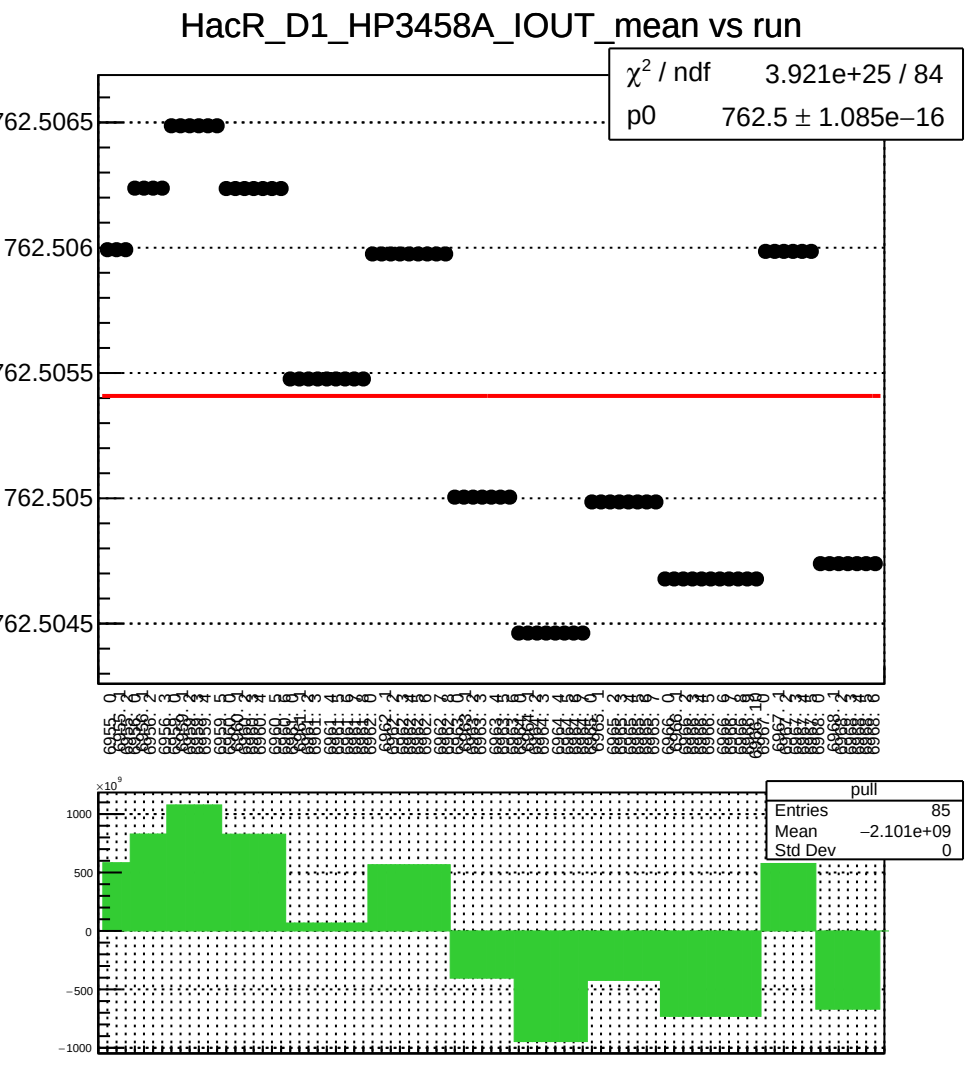

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

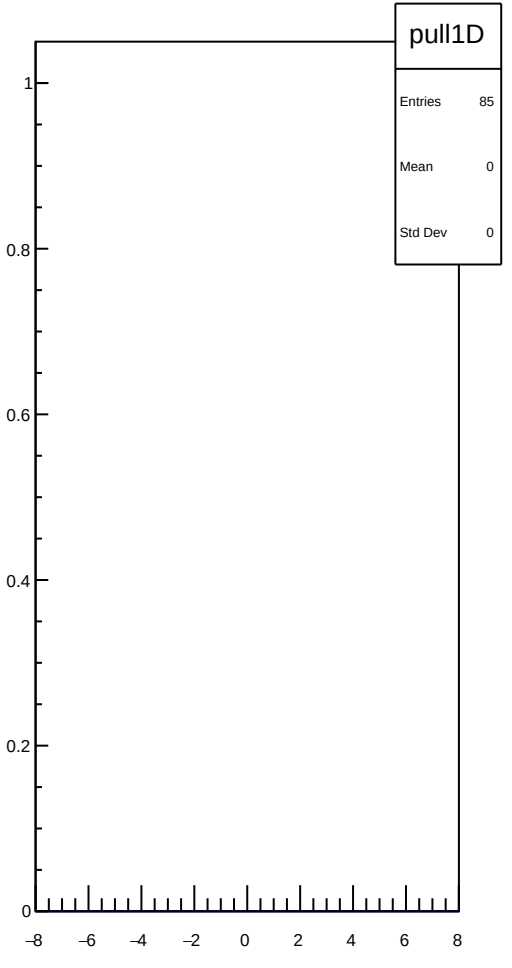

MQ172RM_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
9.375
pull
Entries 85
Mean 42.5
Std Dev 24.54

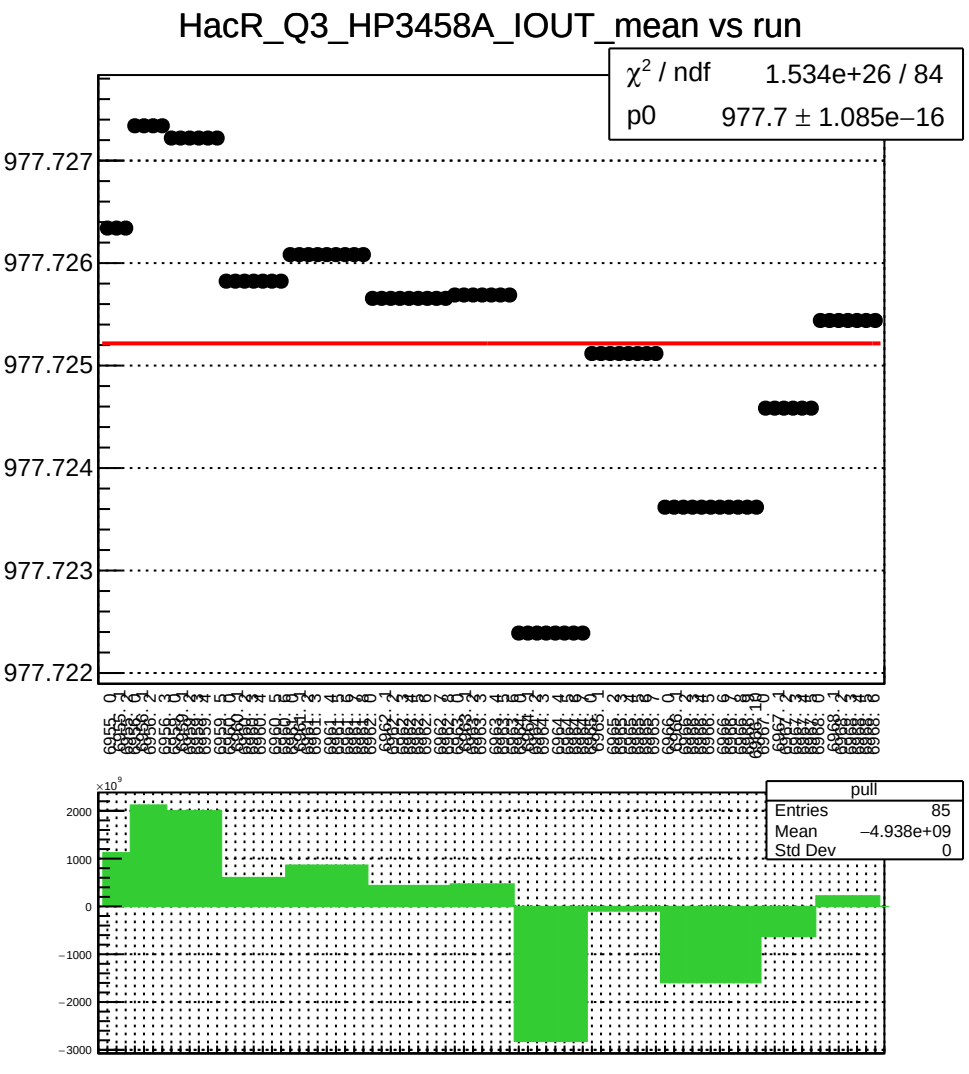

pull1D
Entries 85
Mean 0.02082
Std Dev 0

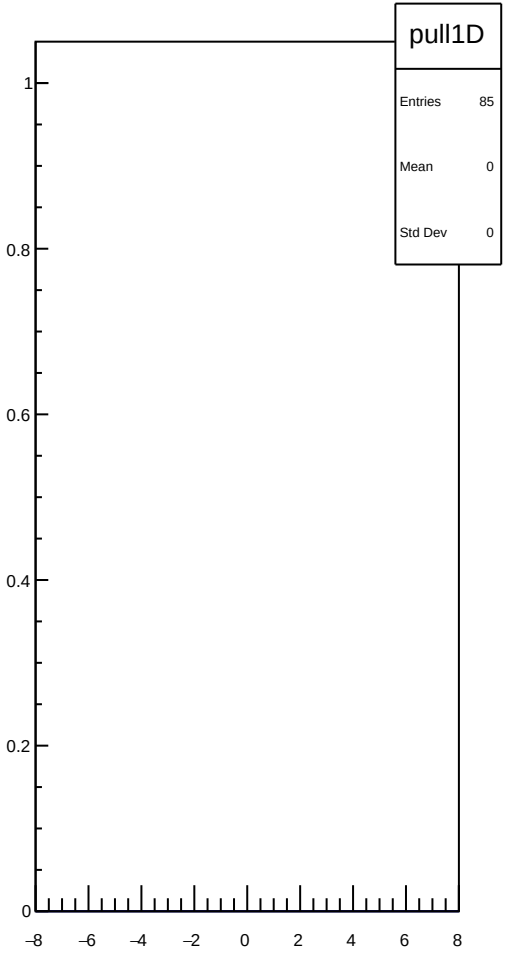

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.665e+27 / 84
p0 925 ± 1.085e−16
924.985
924.98
924.975
924.97
924.965
pull
Entries 85
Mean 1.625e+10
Std Dev 0
×10¹²
6
4
2
0
−2
−4
−6
−8
−10
−12
−14

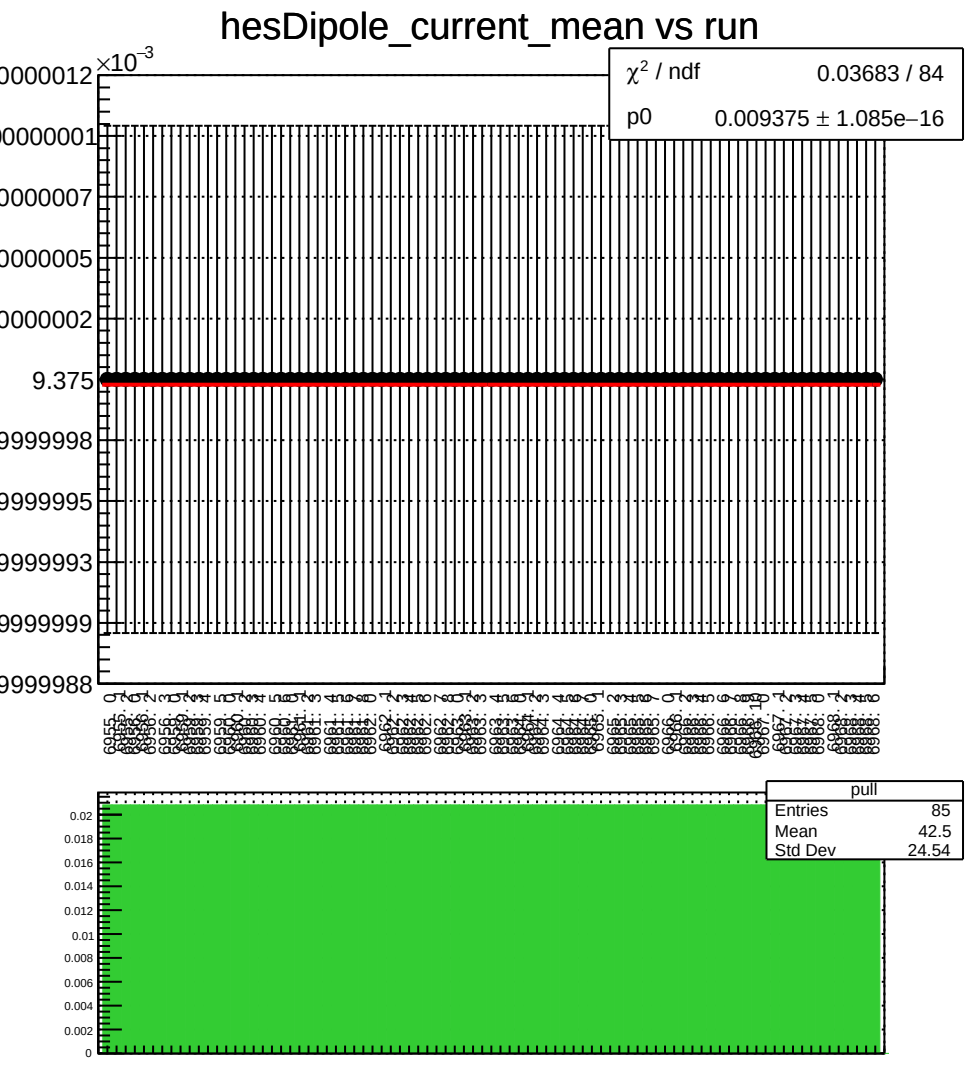

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

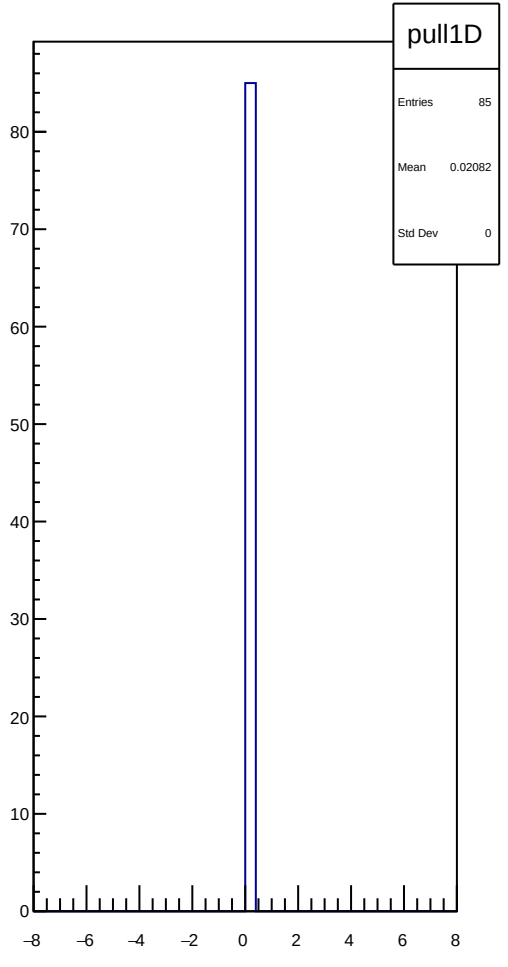

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.921e+25 / 84
p0 762.5 ± 1.085e−16
762.5065
762.506
762.5055
762.505
762.5045
×10⁹
1000
500
0
−500
−1000
pull
Entries 85
Mean −2.101e+09
Std Dev 0

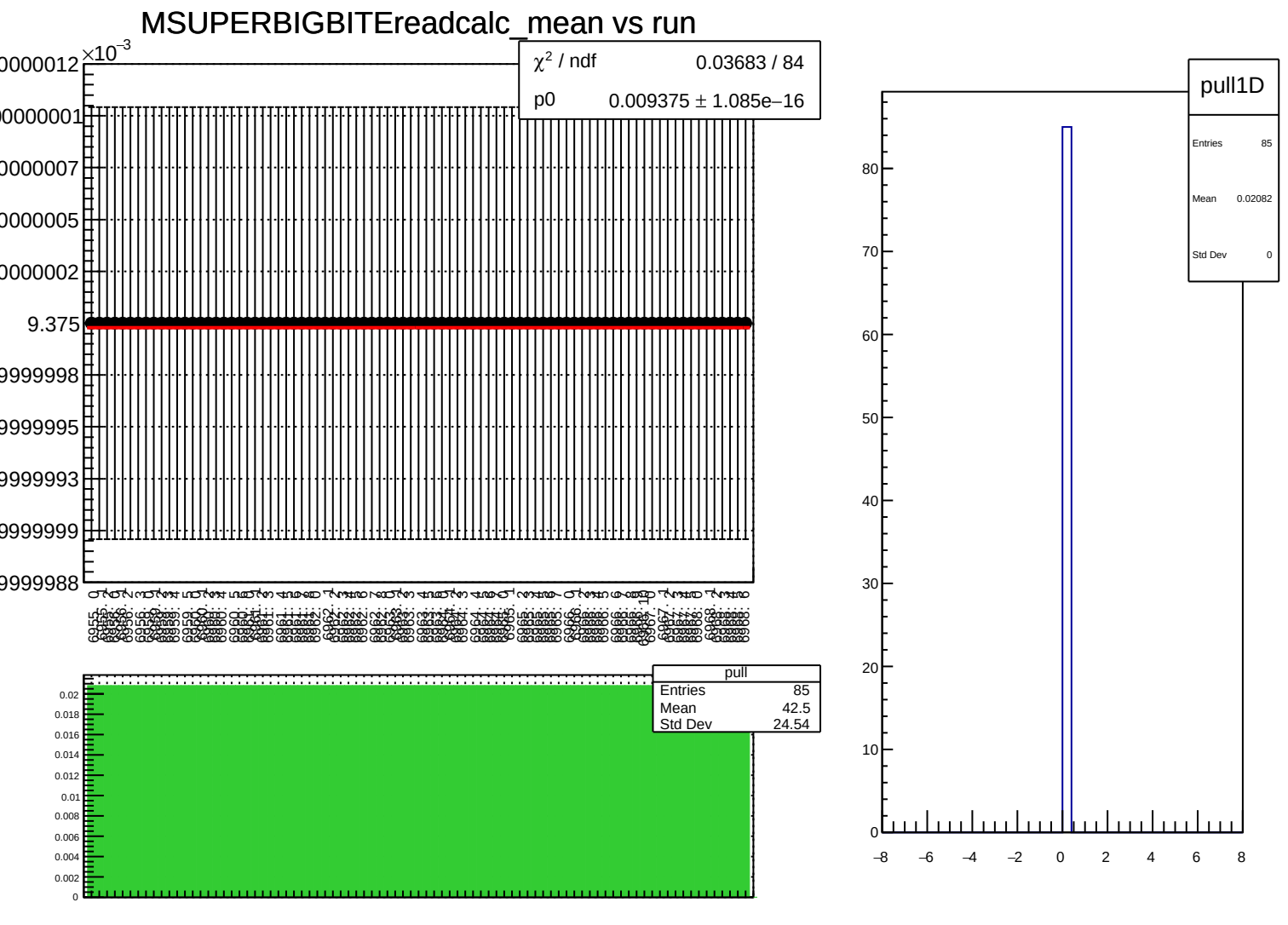

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

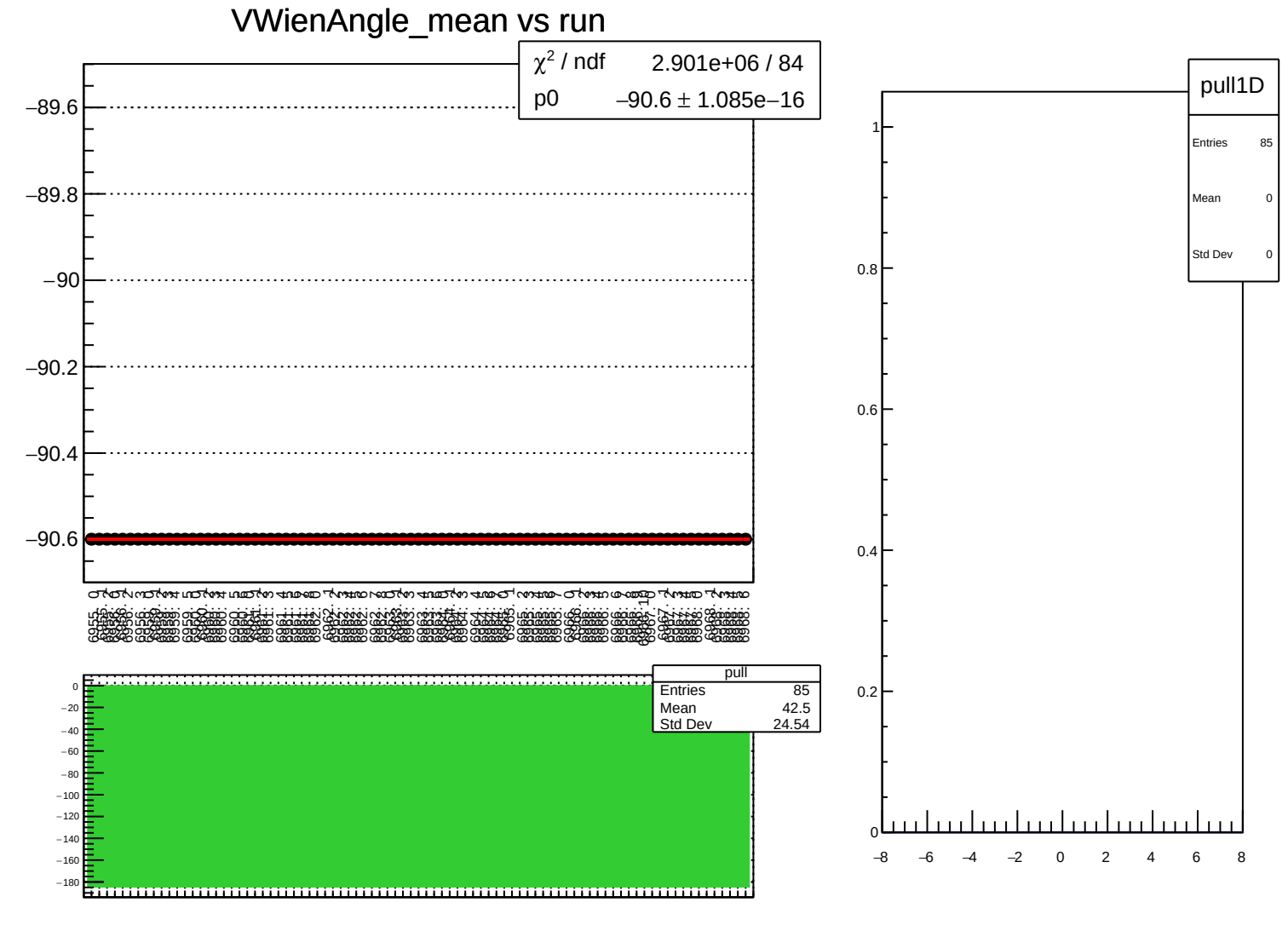

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.534e+26 / 84
p0 977.7 ± 1.085e−16
977.727
977.726
977.725
977.724
977.723
977.722
×10⁹
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −4.938e+09
Std Dev 0

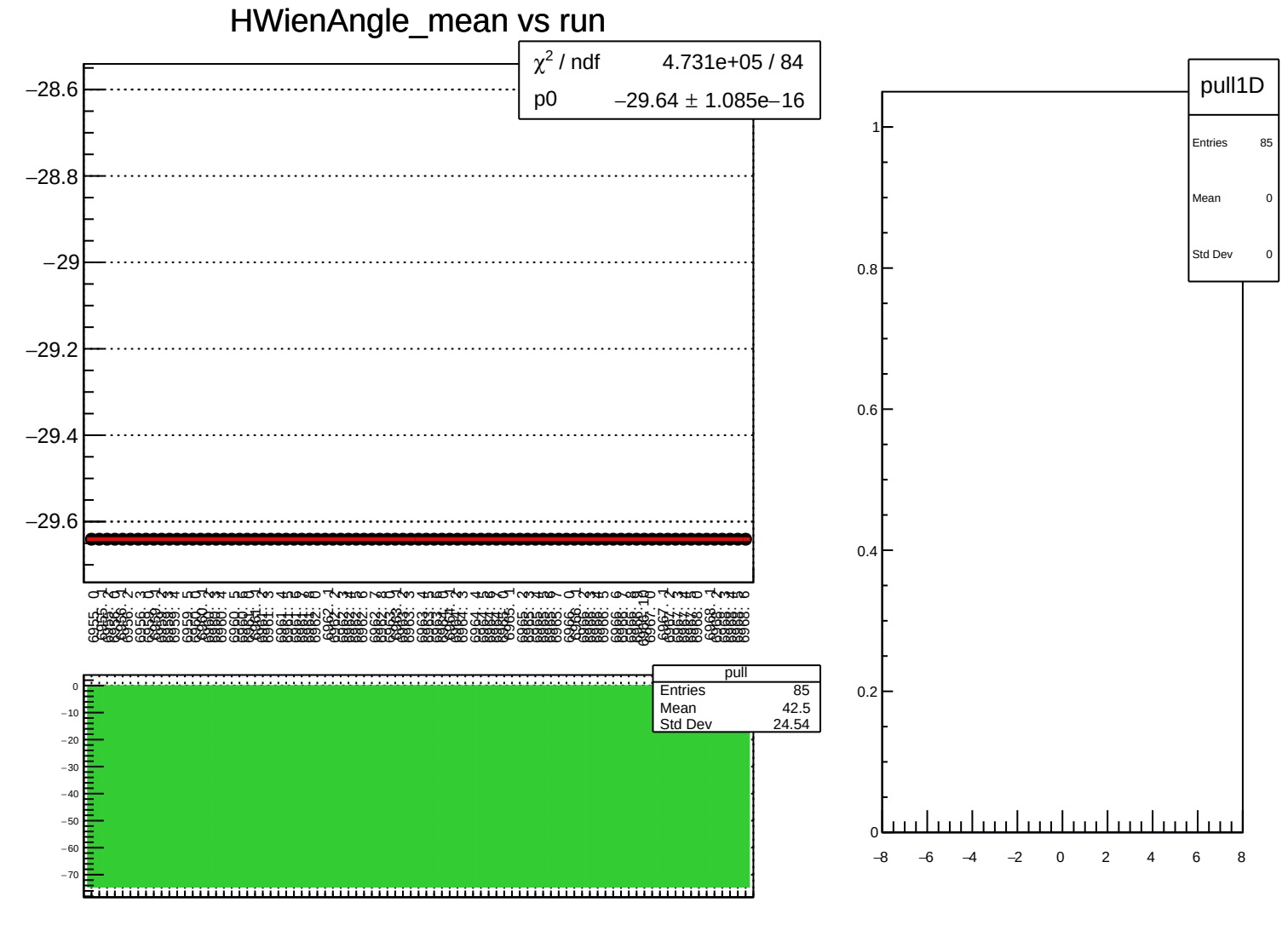

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

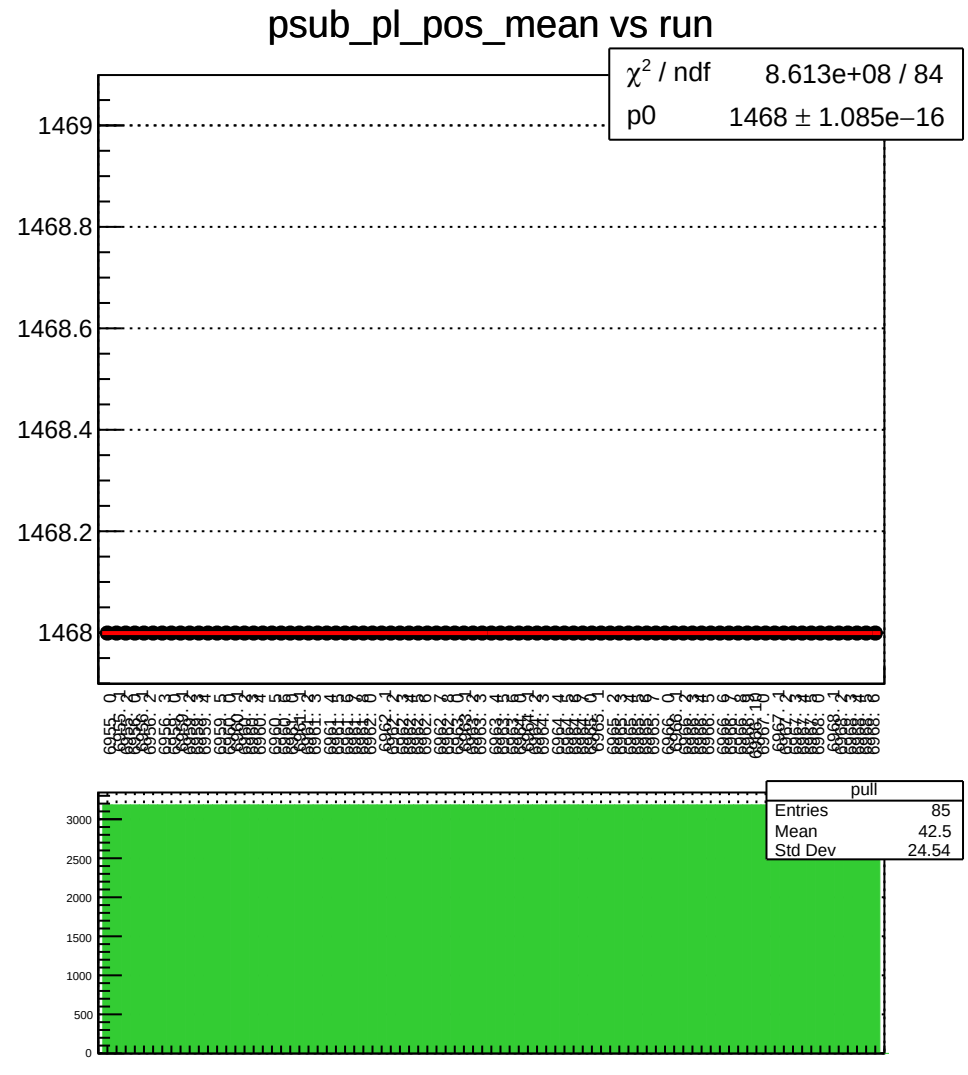

hesDipole_current_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
pull
Entries 85
Mean 42.5
Std Dev 24.54

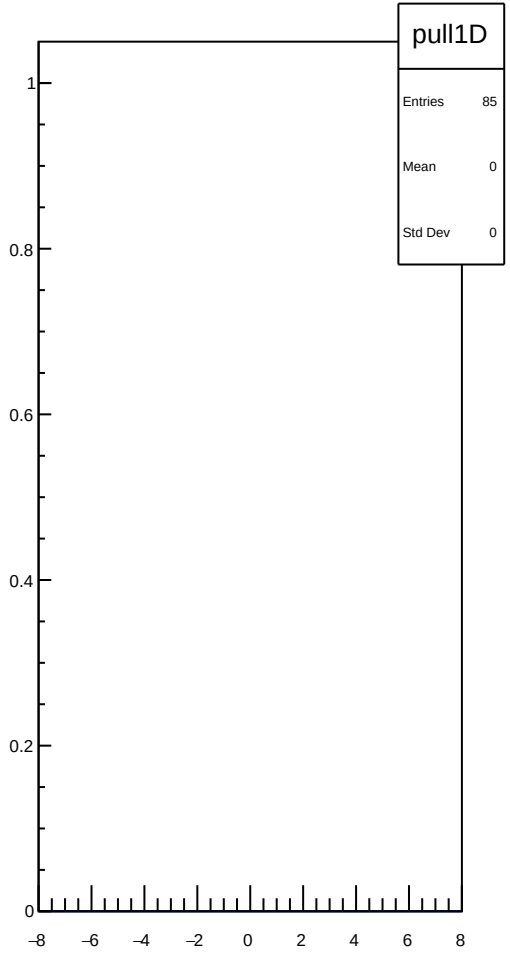

pull1D
Entries 85
Mean 0.02082
Std Dev 0

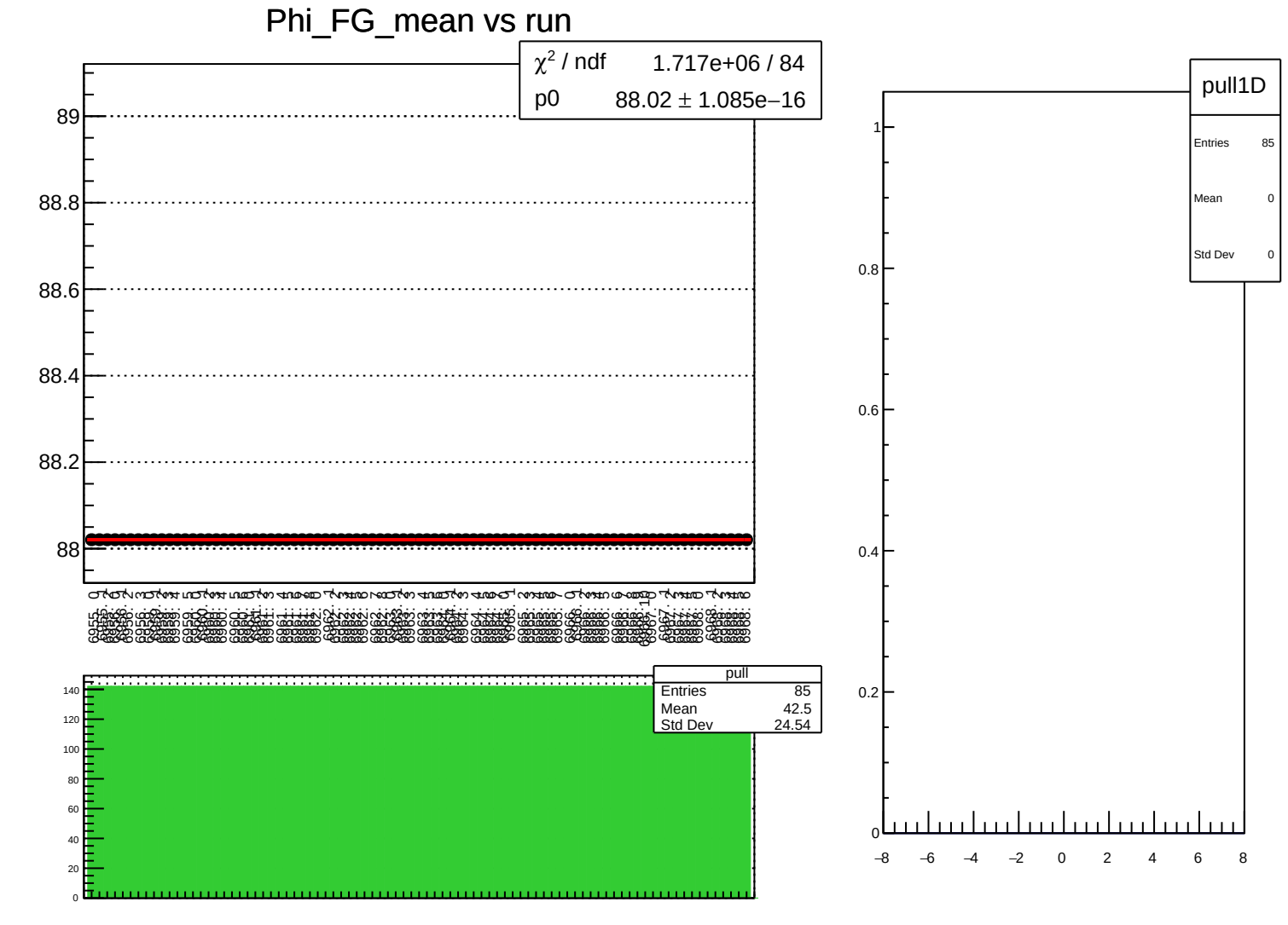

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
9.375
pull
Entries 85
Mean 42.5
Std Dev 24.54
pull1D
Entries 85
Mean 0.02082
Std Dev 0

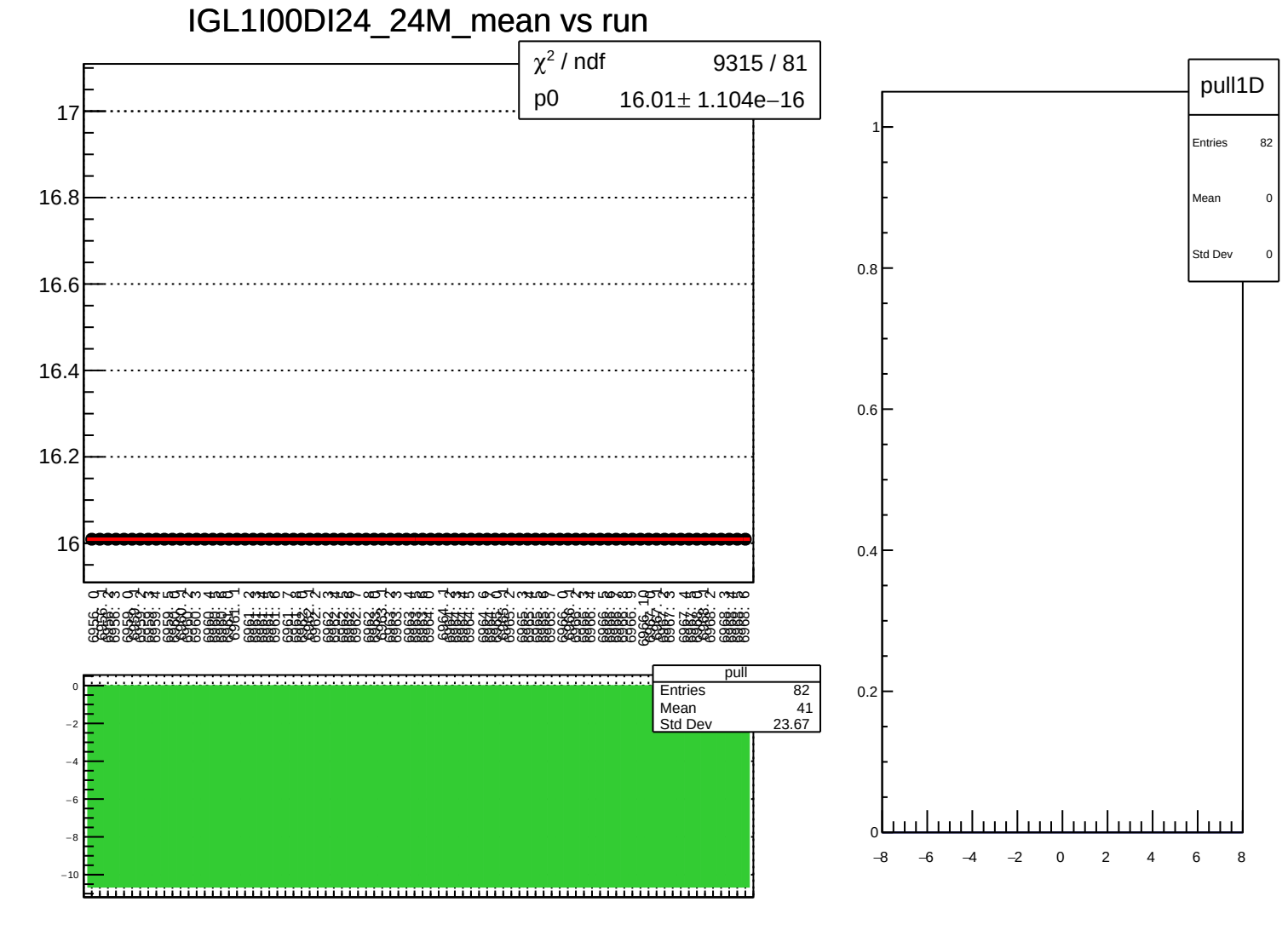

VWienAngle_mean vs run
χ² / ndf 2.901e+06 / 84
p0 −90.6 ± 1.085e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 85
Mean 42.5
Std Dev 24.54
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

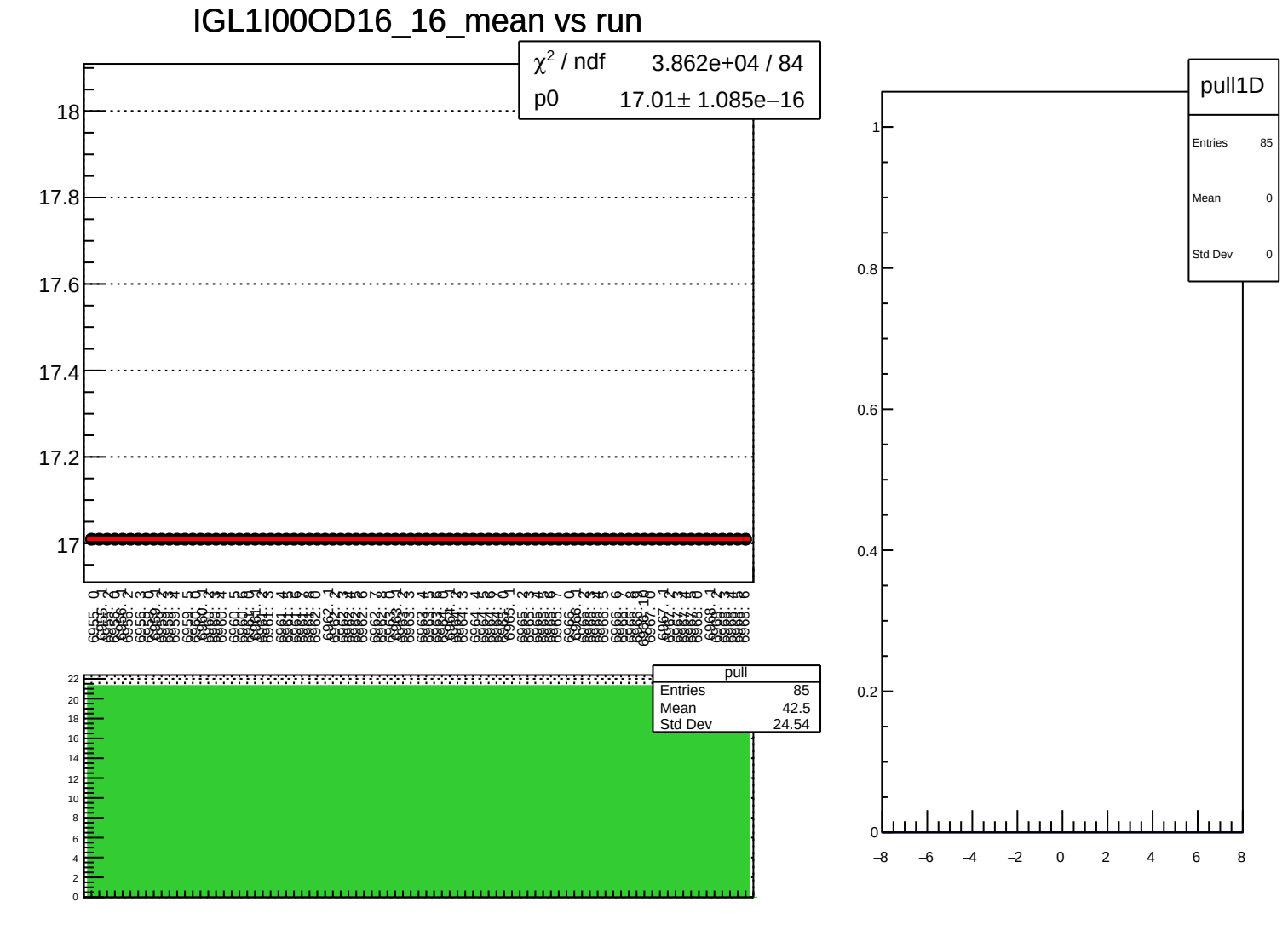

HWienAngle_mean vs run
χ² / ndf 4.731e+05 / 84
p0 −29.64 ± 1.085e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 85
Mean 42.5
Std Dev 24.54
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

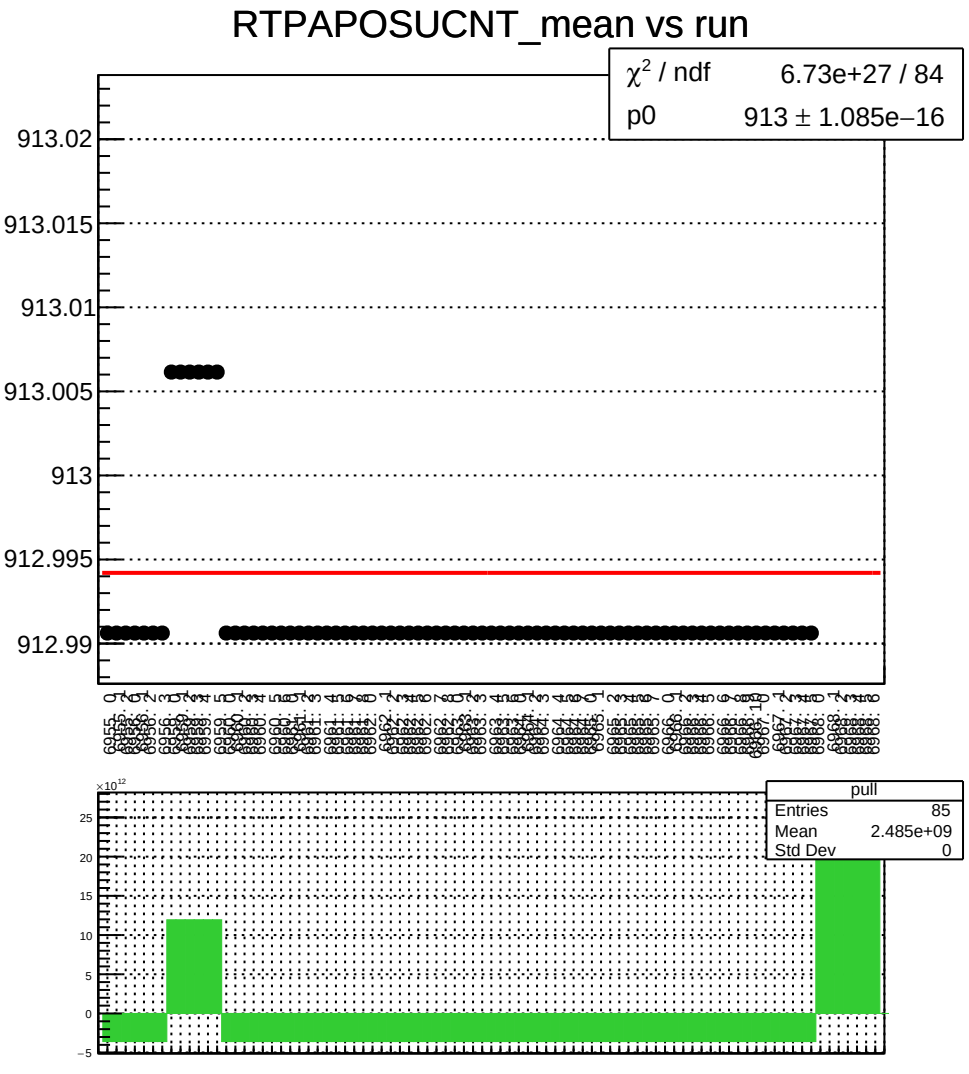

psub_pl_pos_mean vs run
χ² / ndf 8.613e+08 / 84
p0 1468 ± 1.085e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 85
Mean 42.5
Std Dev 24.54
3000
2500
2000
1500
1000
500
0

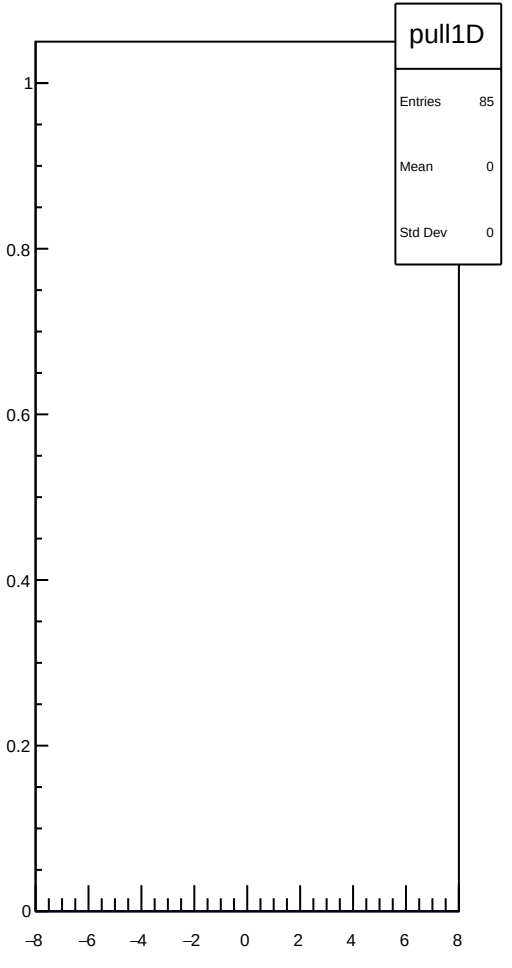

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

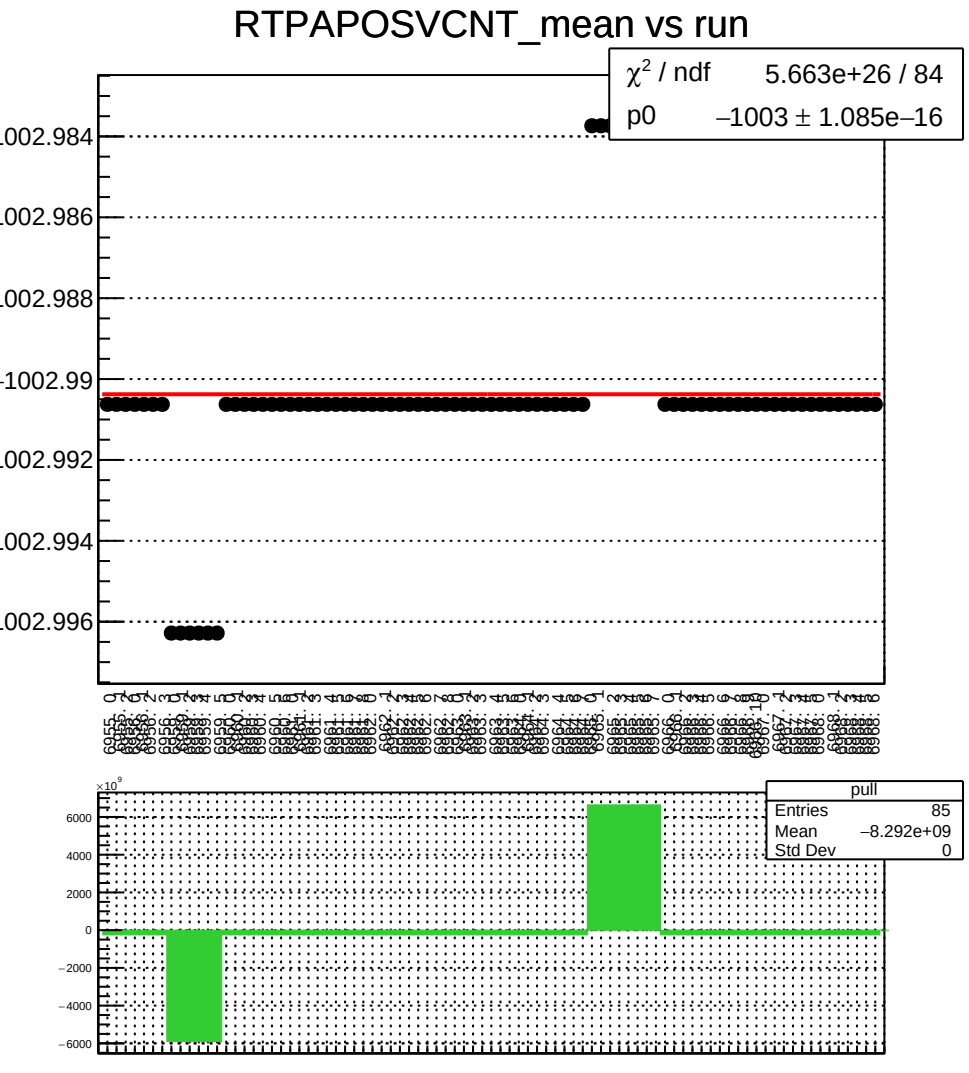

Phi_FG_mean vs run
χ² / ndf 1.717e+06 / 84
p0 88.02 ± 1.085e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 85
Mean 42.5
Std Dev 24.54
140
120
100
80
60
40
20
0
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

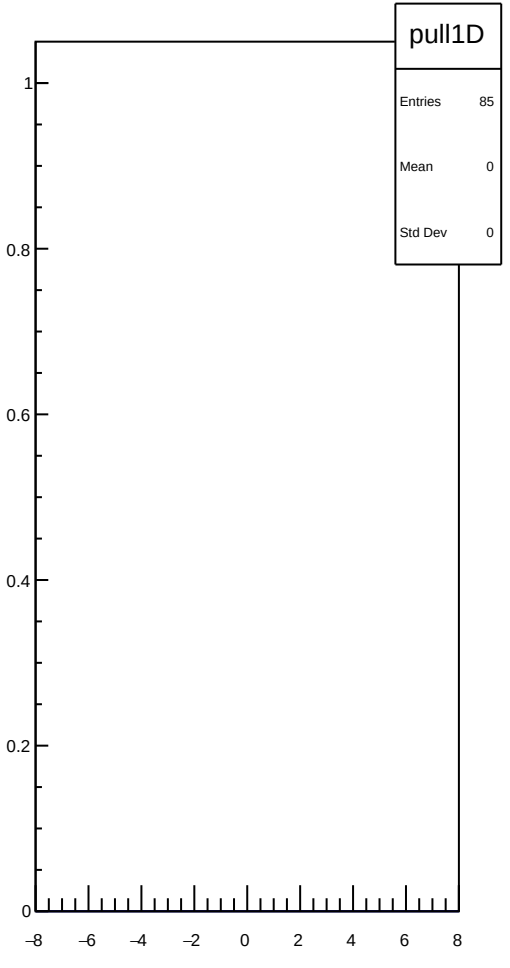

IGL1I00DI24_24M_mean vs run
χ² / ndf 9315 / 81
p0 16.01± 1.104e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 82
Mean 41
Std Dev 23.67
0
−2
−4
−6
−8
−10
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

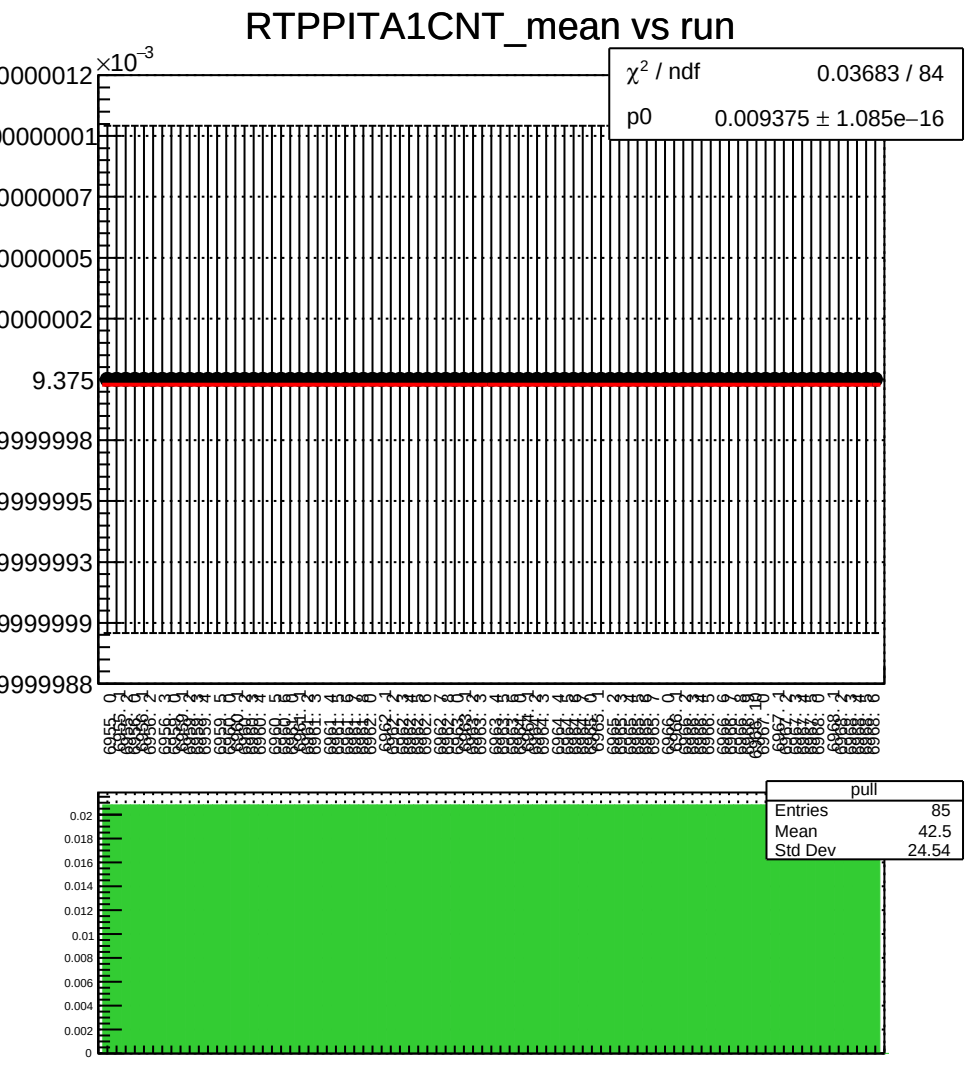

IGL1I00OD16_16_mean vs run
χ² / ndf 3.862e+04 / 84
p0 17.01± 1.085e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 85
Mean 42.5
Std Dev 24.54
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

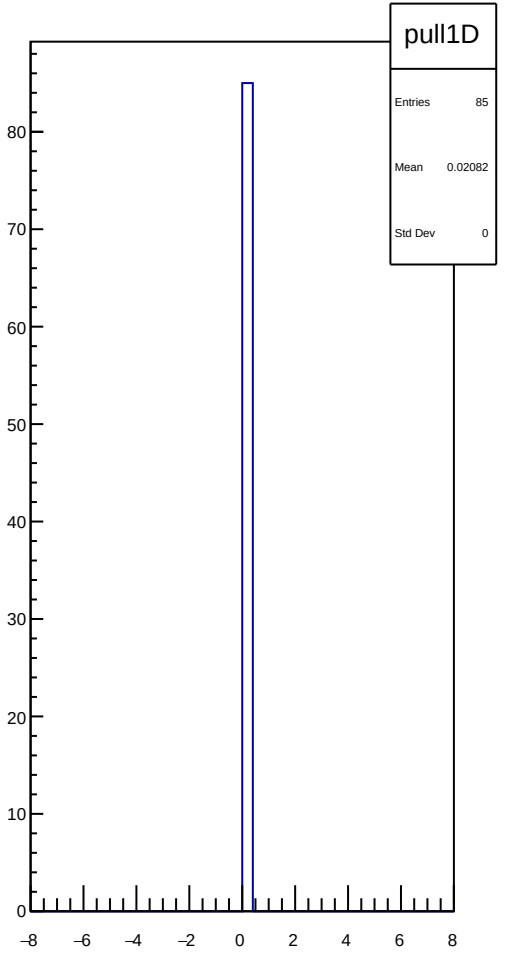

RTPAPOSUCNT_mean vs run
χ² / ndf 6.73e+27 / 84
p0 913 ± 1.085e−16
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 85
Mean 2.485e+09
Std Dev 0
×10¹²
25
20
15
10
5
0
−5

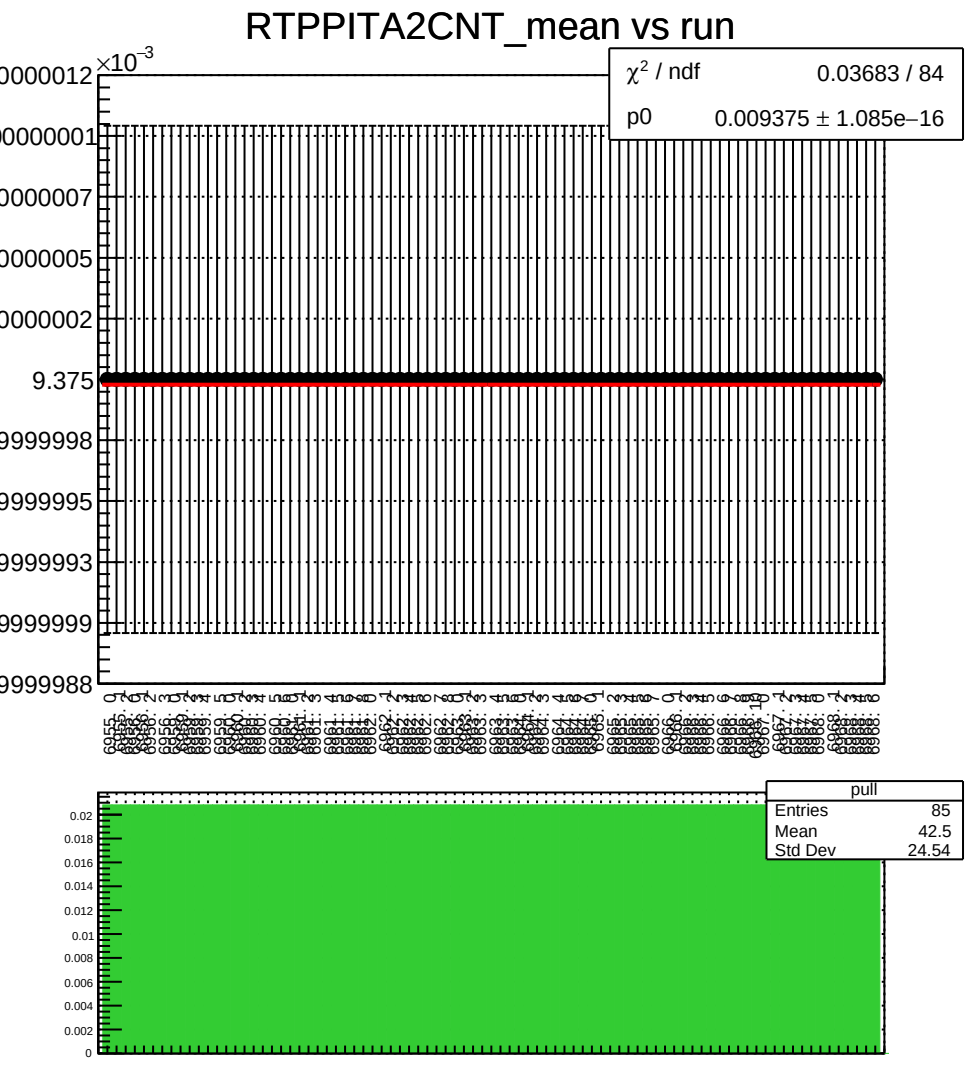

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

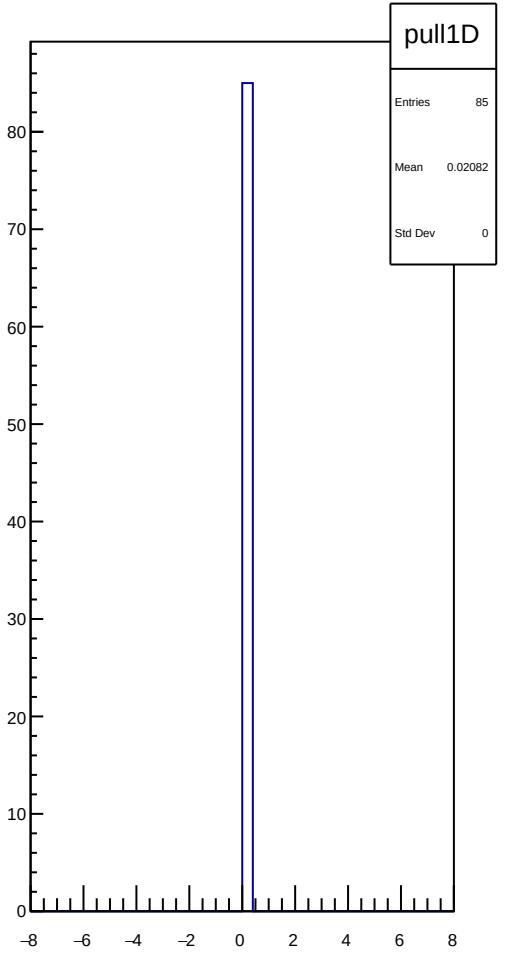

RTPAPOSVCNT_mean vs run
χ² / ndf 5.663e+26 / 84
p0 −1003 ± 1.085e−16
−1002.984
−1002.986
−1002.988
−1002.99
−1002.992
−1002.994
−1002.996
×10⁹
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −8.292e+09
Std Dev 0


pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
9.375
pull
Entries 85
Mean 42.5
Std Dev 24.54


pull1D
Entries 85
Mean 0.02082
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
9.375
pull
Entries 85
Mean 42.5
Std Dev 24.54


pull1D
Entries 85
Mean 0.02082
Std Dev 0