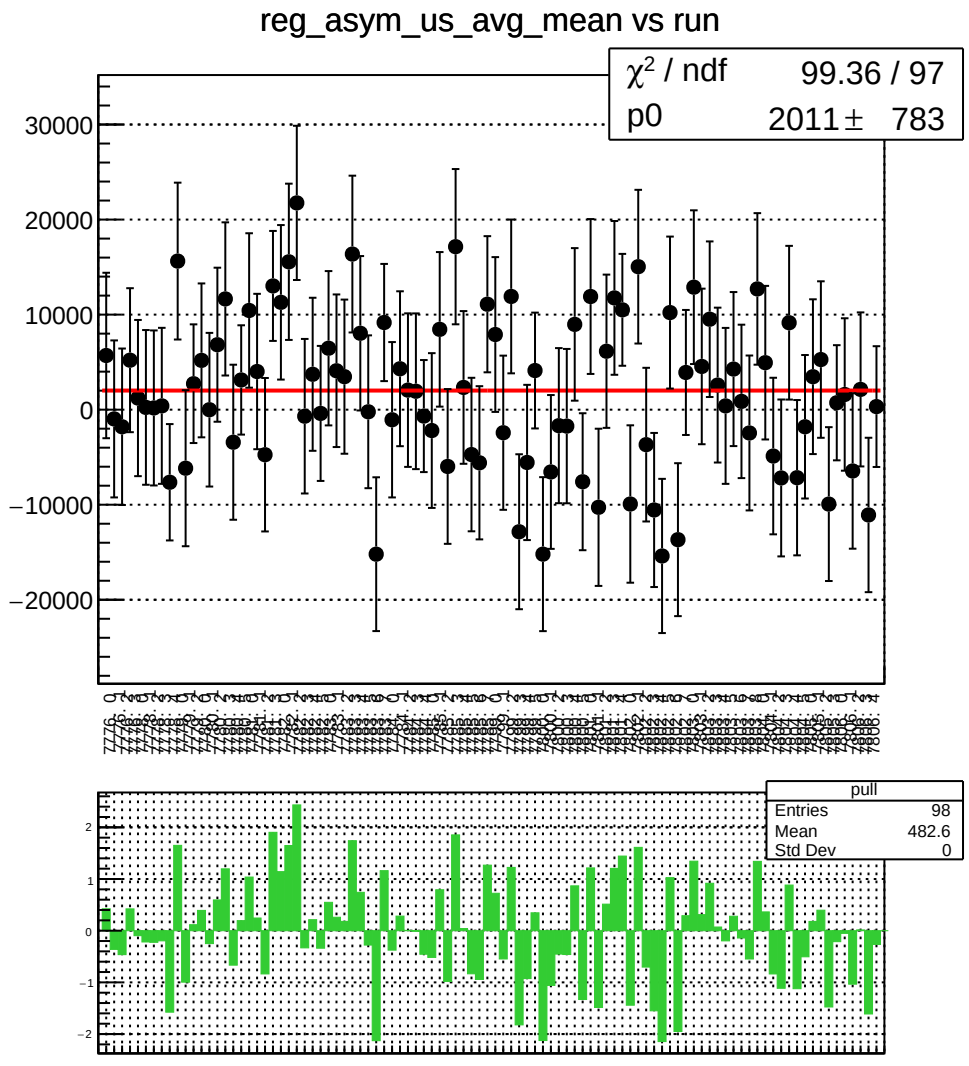
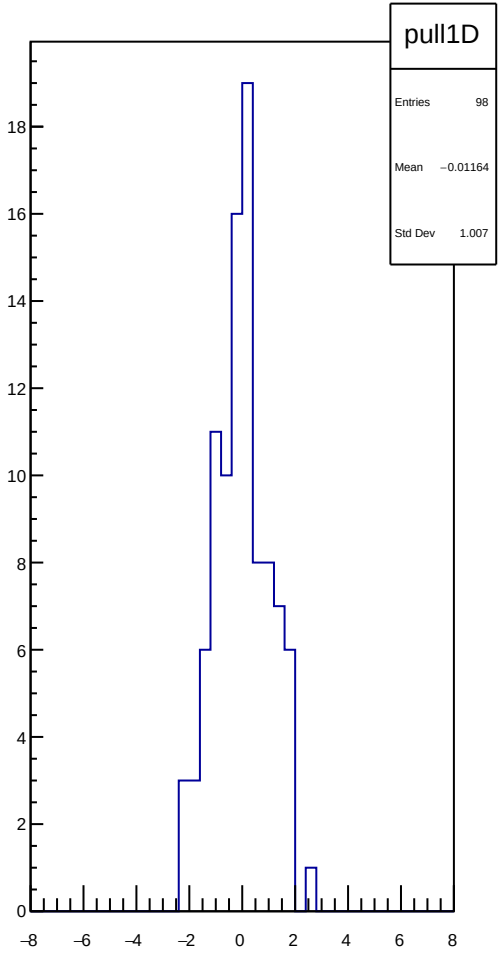
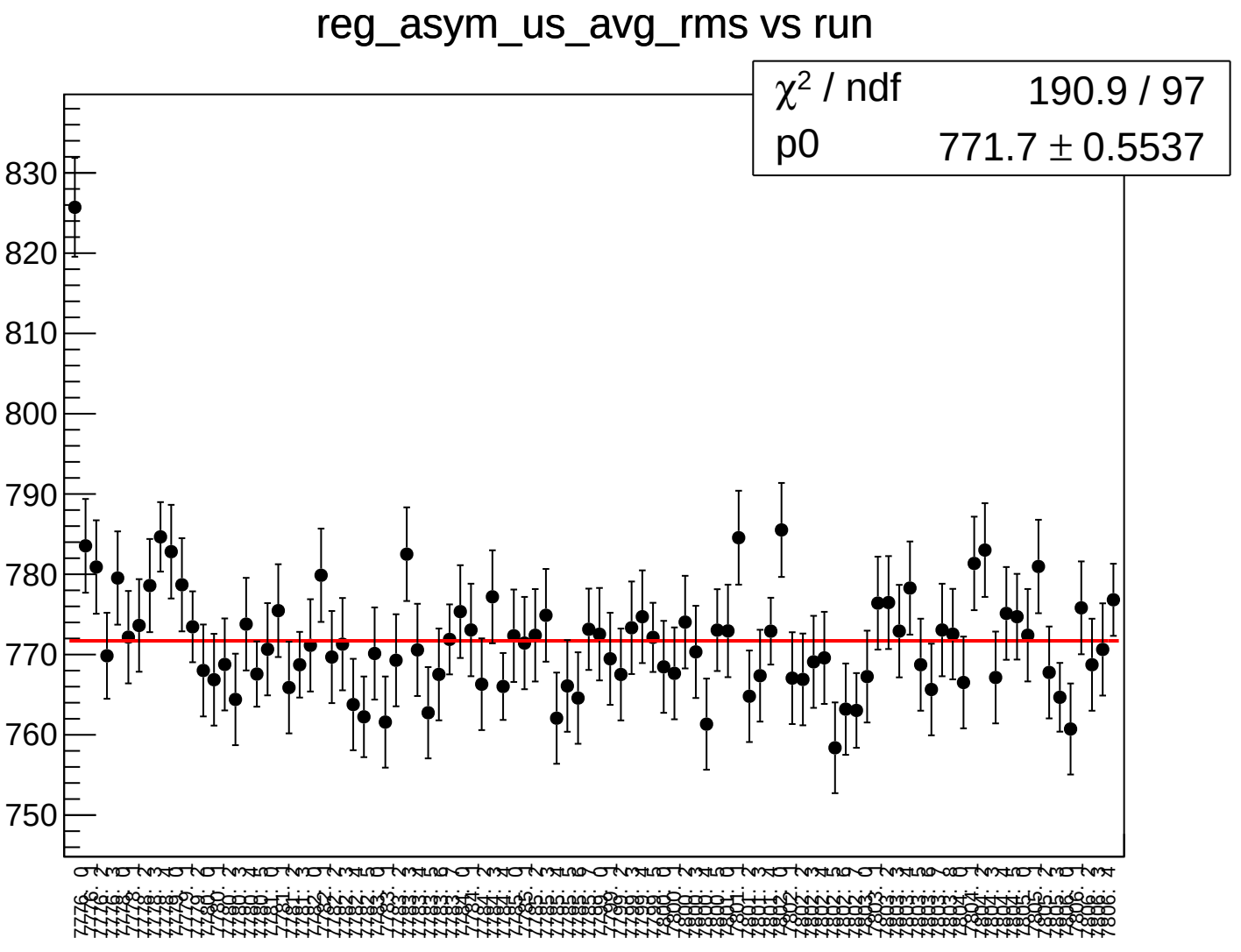
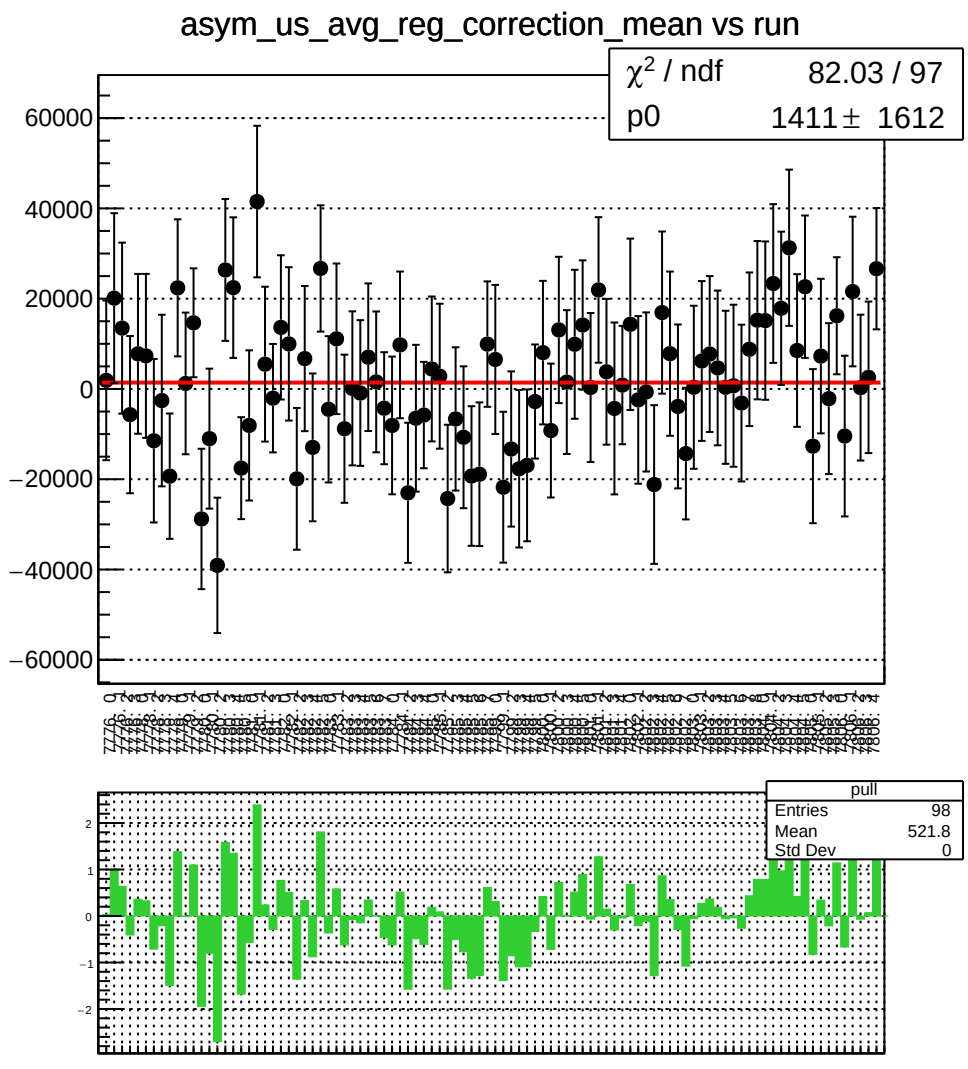
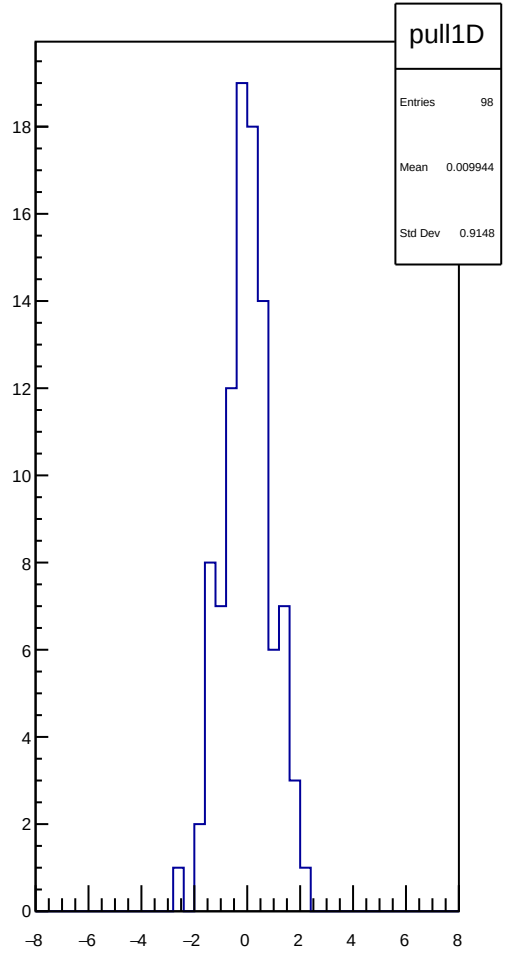
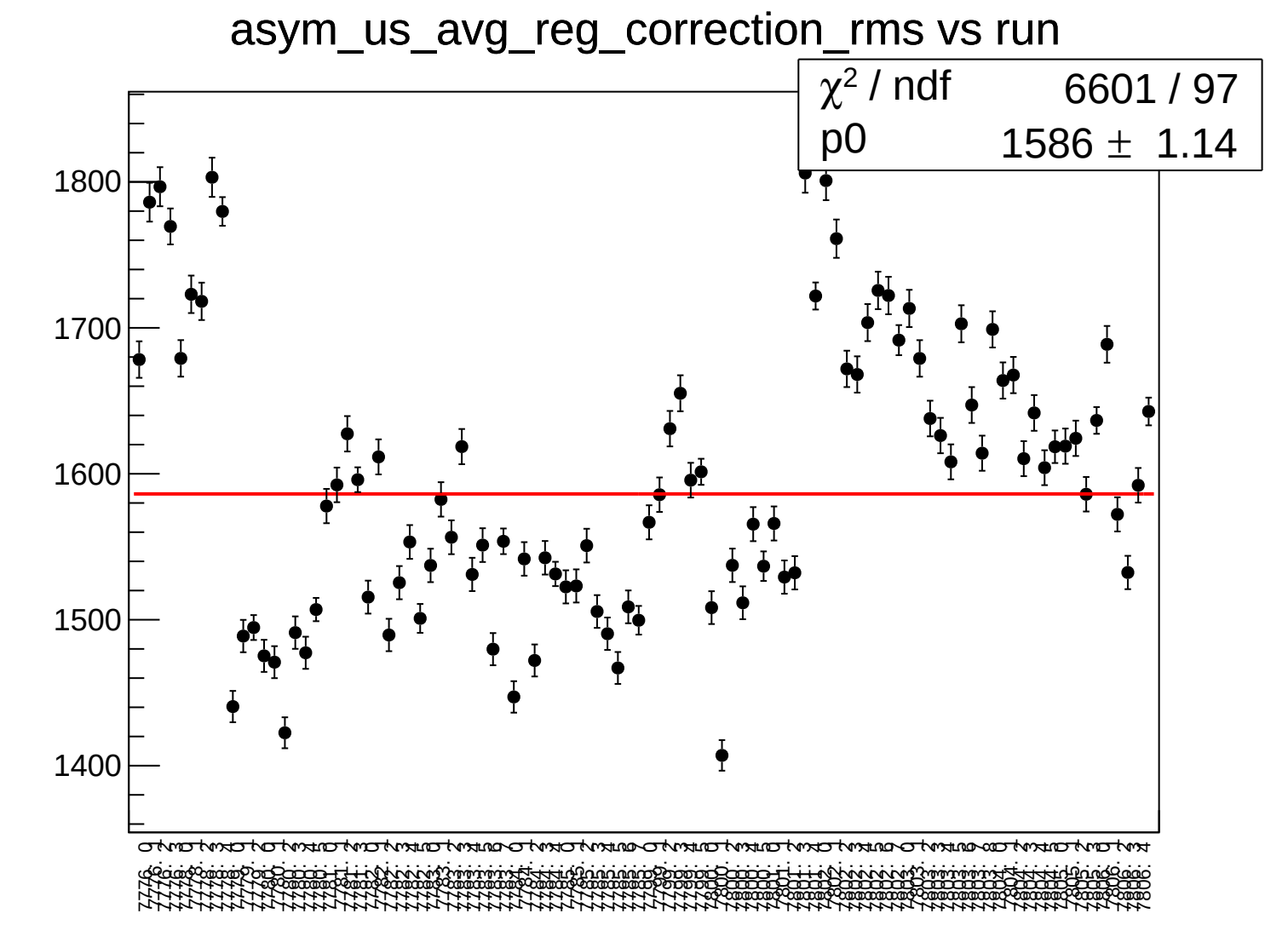

reg_asym_us_avg_mean vs run
χ² / ndf 99.36 / 97
p0 2011 ± 783
pull
Entries 98
Mean 482.6
Std Dev 0

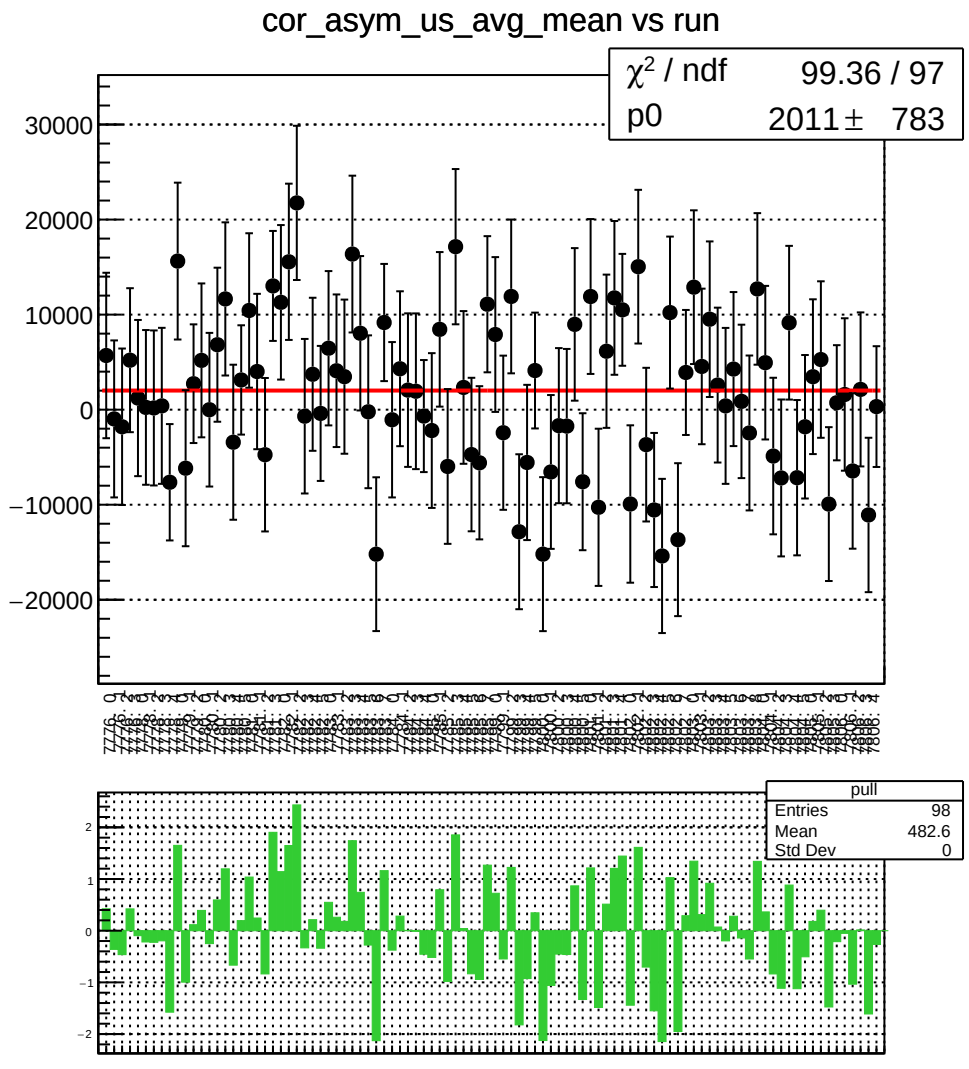

pull1D
Entries 98
Mean −0.01164
Std Dev 1.007

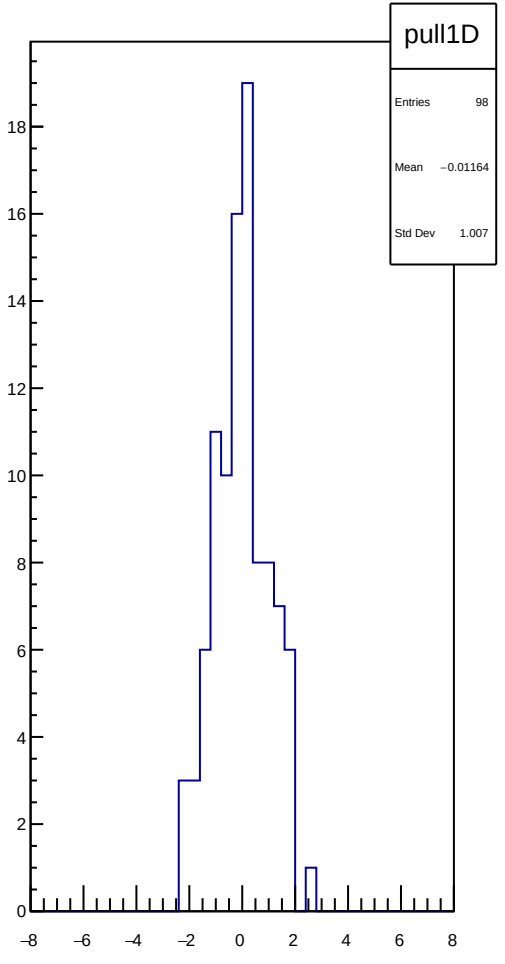

reg_asym_us_avg_rms vs run
χ^2 / ndf 190.9 / 97
p0 771.7 ± 0.5537
830
820
810
800
790
780
770
760
750

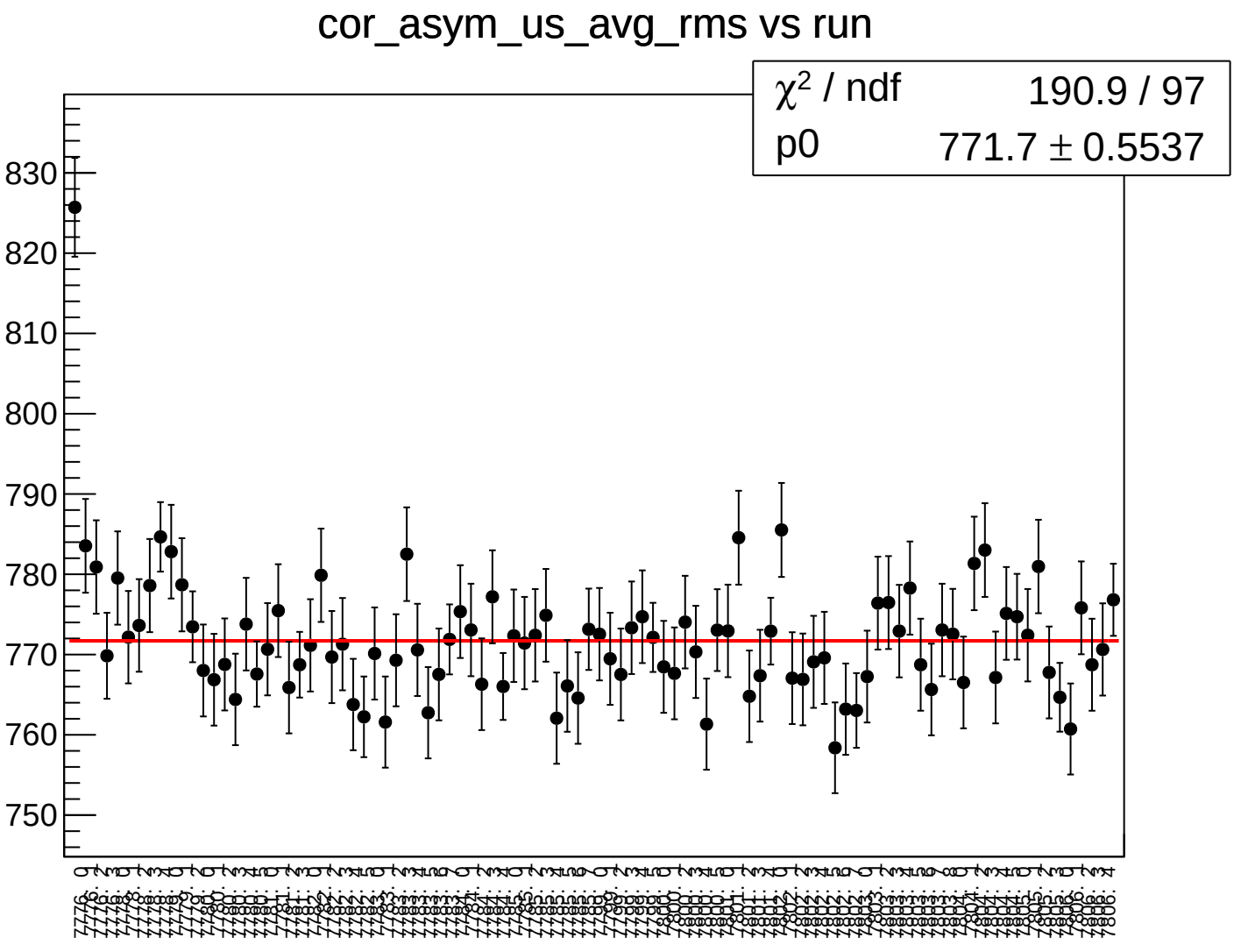

asym_us_avg_reg_correction_mean vs run
χ² / ndf 82.03 / 97
p0 1411 ± 1612
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 521.8
Std Dev 0
2
1
0
−1
−2

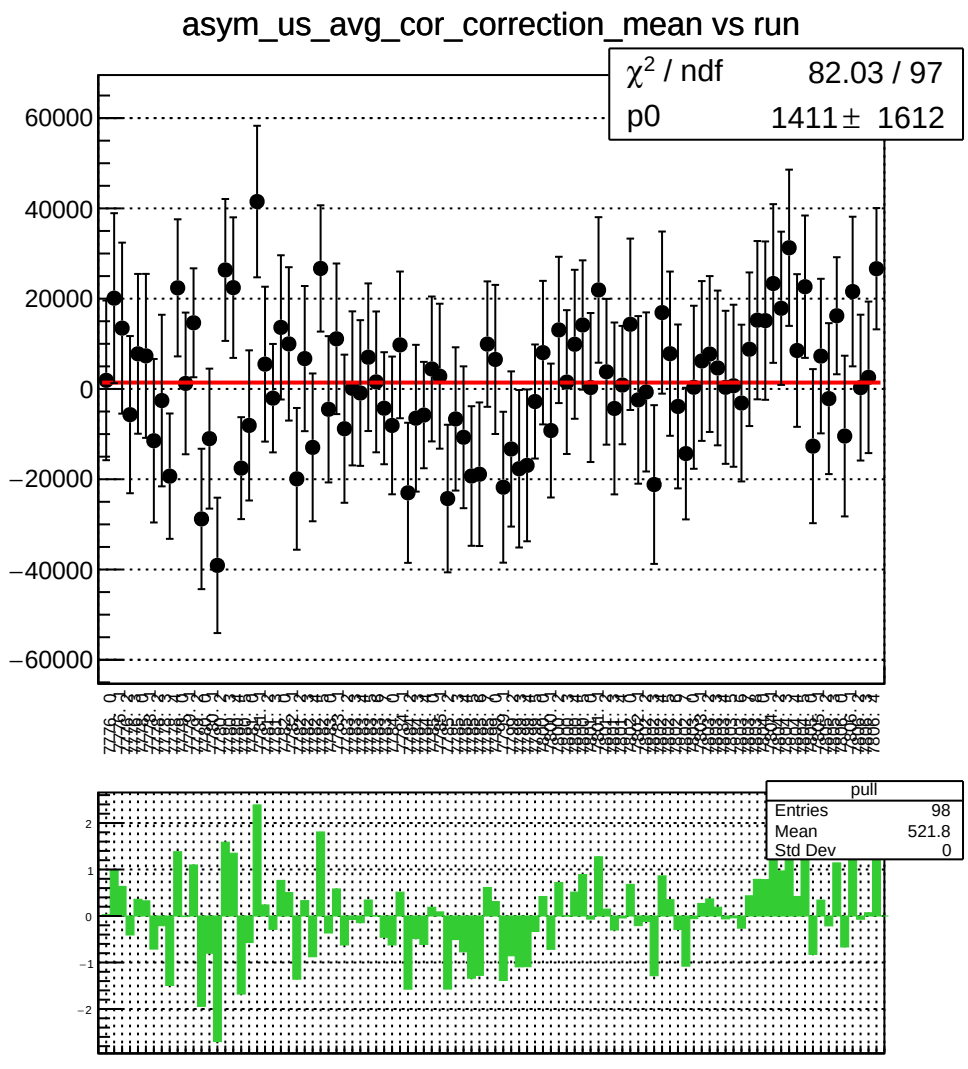

pull1D
Entries 98
Mean 0.009944
Std Dev 0.9148
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

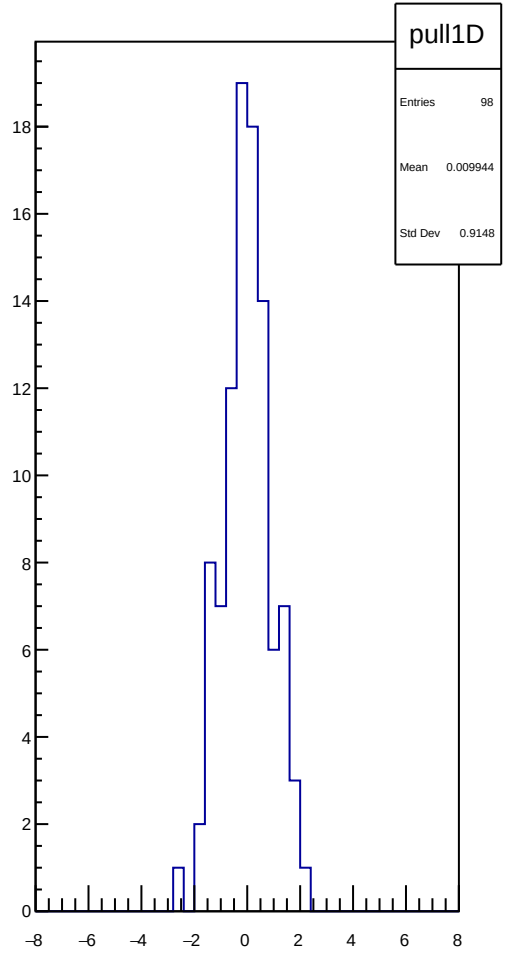

asym_us_avg_reg_correction_rms vs run
χ² / ndf 6601 / 97
p0 1586 ± 1.14
1800
1700
1600
1500
1400

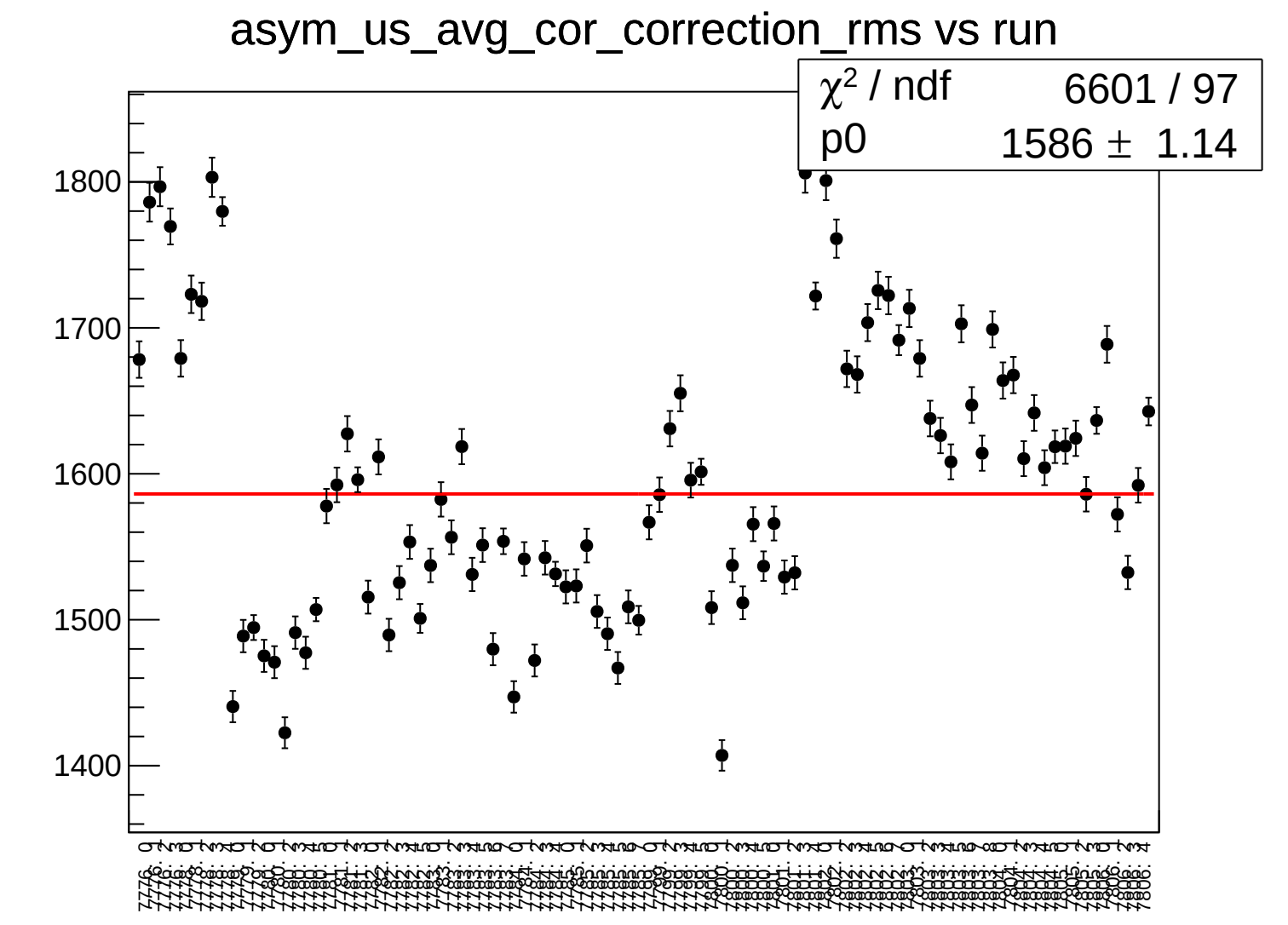

cor_asym_us_avg_mean vs run
χ² / ndf 99.36 / 97
p0 2011 ± 783
pull
Entries 98
Mean 482.6
Std Dev 0

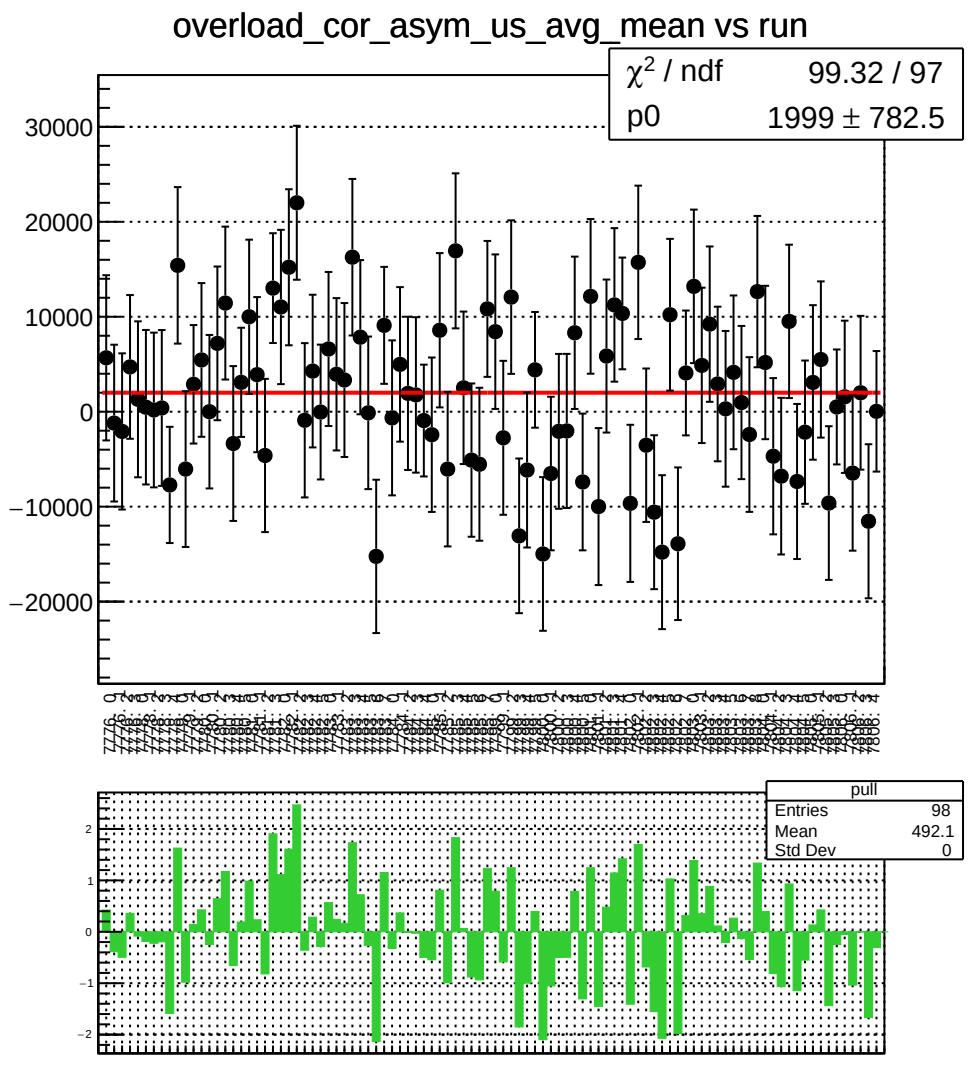

pull1D
Entries 98
Mean −0.01164
Std Dev 1.007

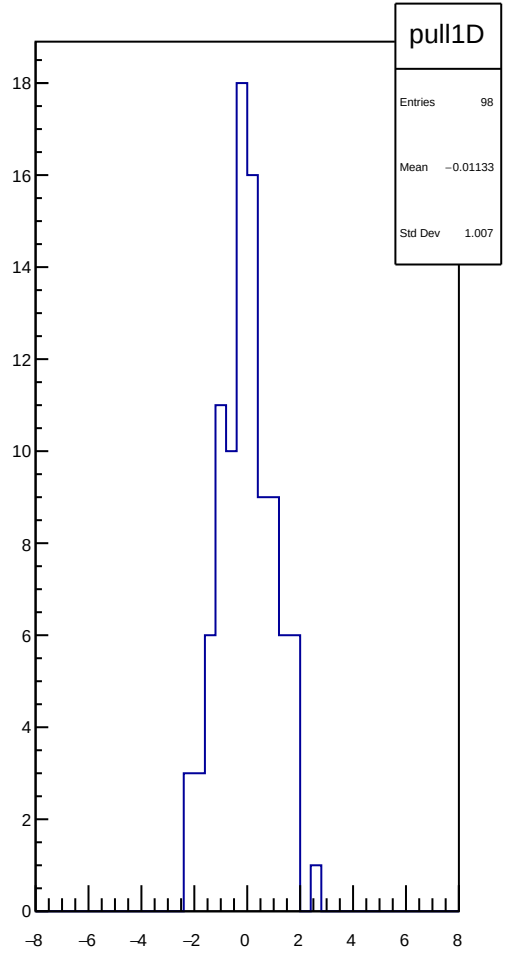

cor_asym_us_avg_rms vs run
χ^2 / ndf 190.9 / 97
p0 771.7 ± 0.5537
830
820
810
800
790
780
770
760
750


asym_us_avg_cor_correction_mean vs run
χ² / ndf 82.03 / 97
p0 1411 ± 1612
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 521.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 98
Mean 0.009944
Std Dev 0.9148
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_cor_correction_rms vs run
χ² / ndf 6601 / 97
p0 1586 ± 1.14
1800
1700
1600
1500
1400


overload_cor_asym_us_avg_mean vs run
χ² / ndf 99.32 / 97
p0 1999 ± 782.5
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 492.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 98
Mean −0.01133
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
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−4
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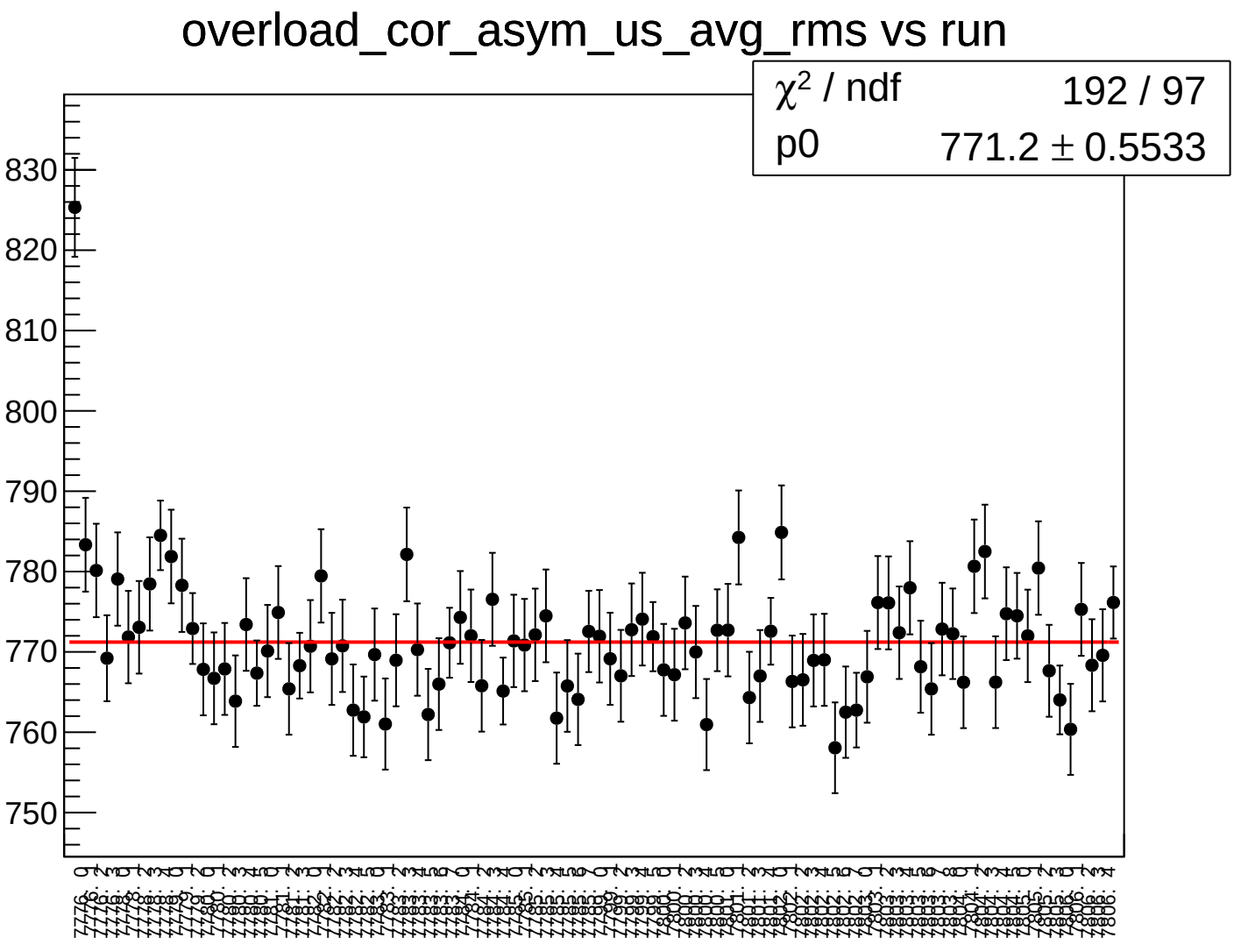
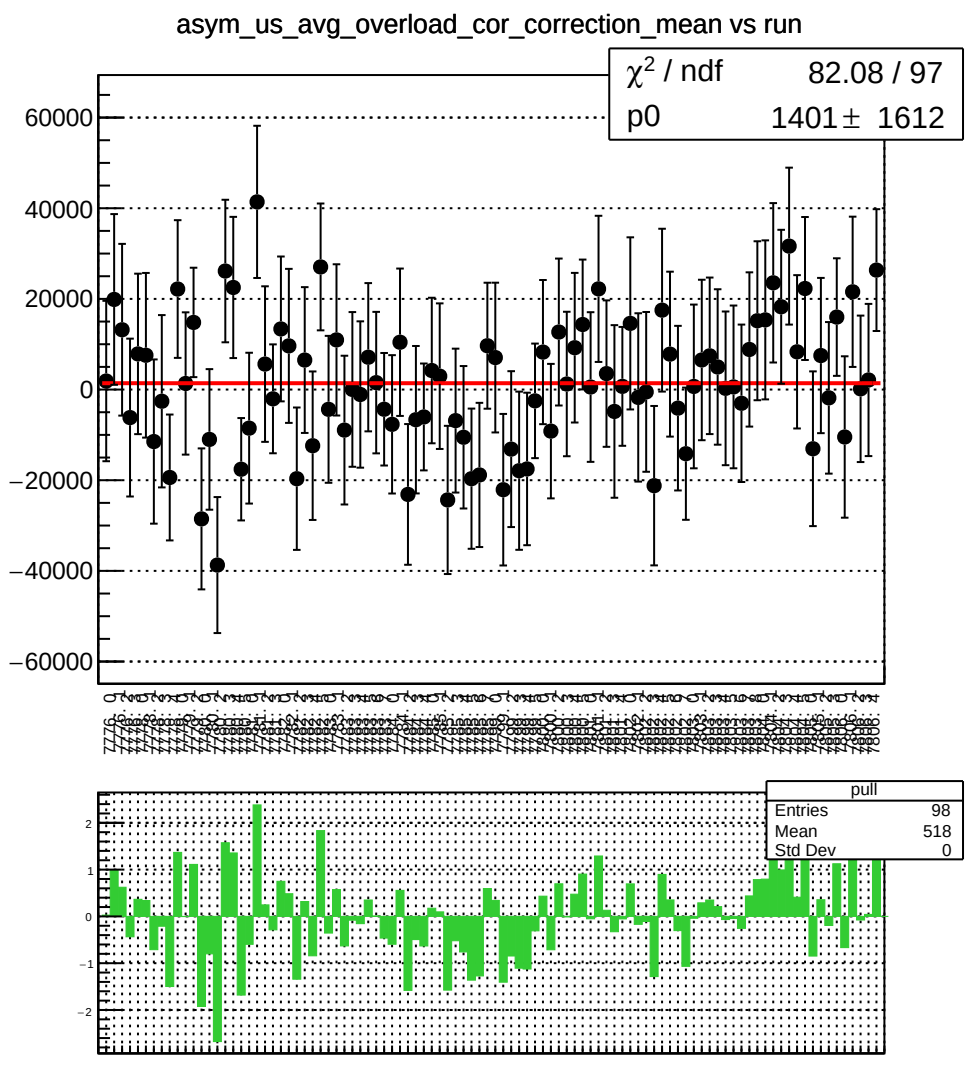
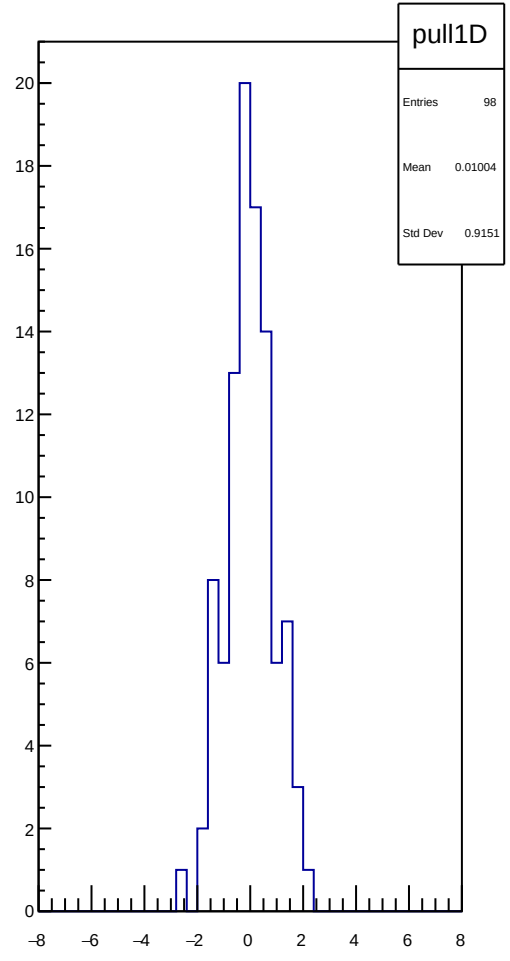
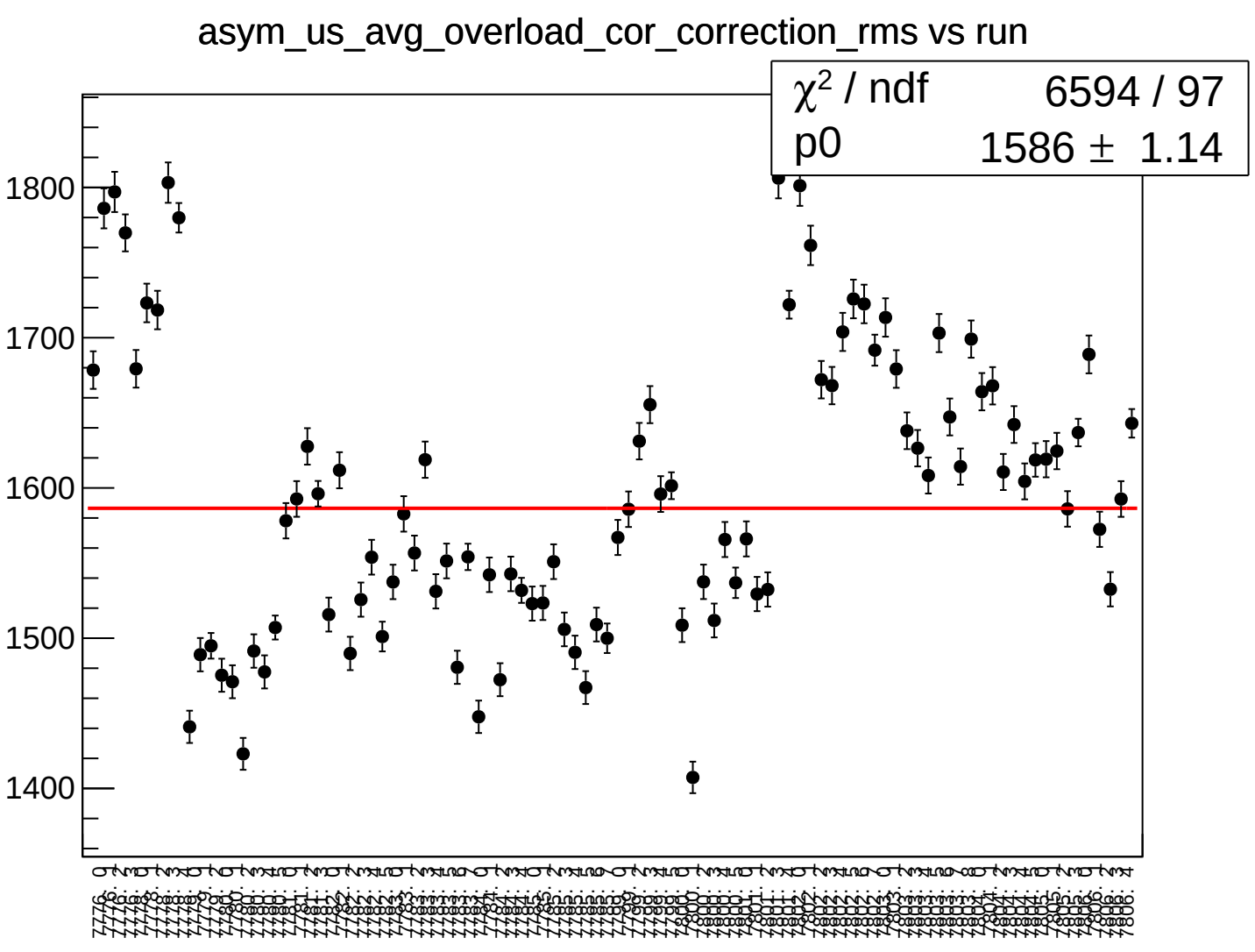
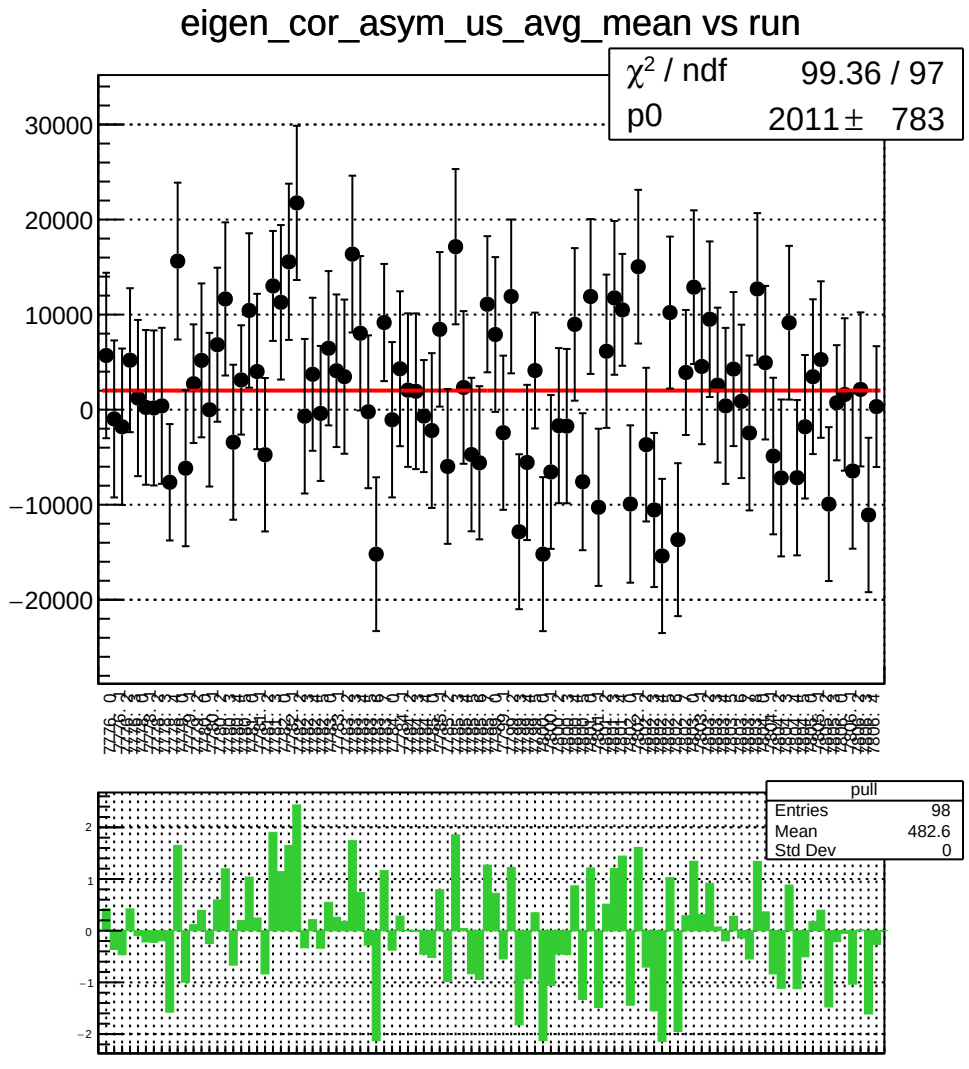
0
2
4
6
8

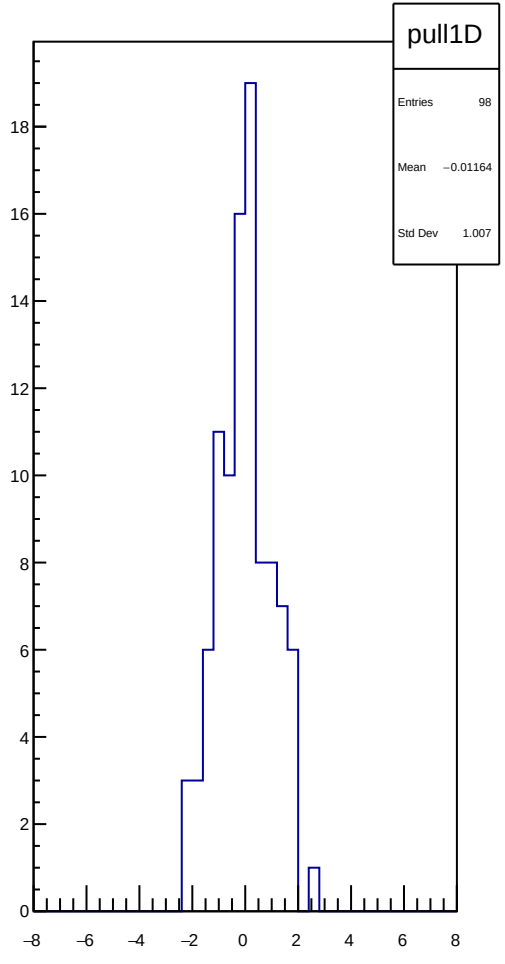

overload_cor_asym_us_avg_rms vs run
χ² / ndf 192 / 97
p0 771.2 ± 0.5533
830
820
810
800
790
780
770
760
750

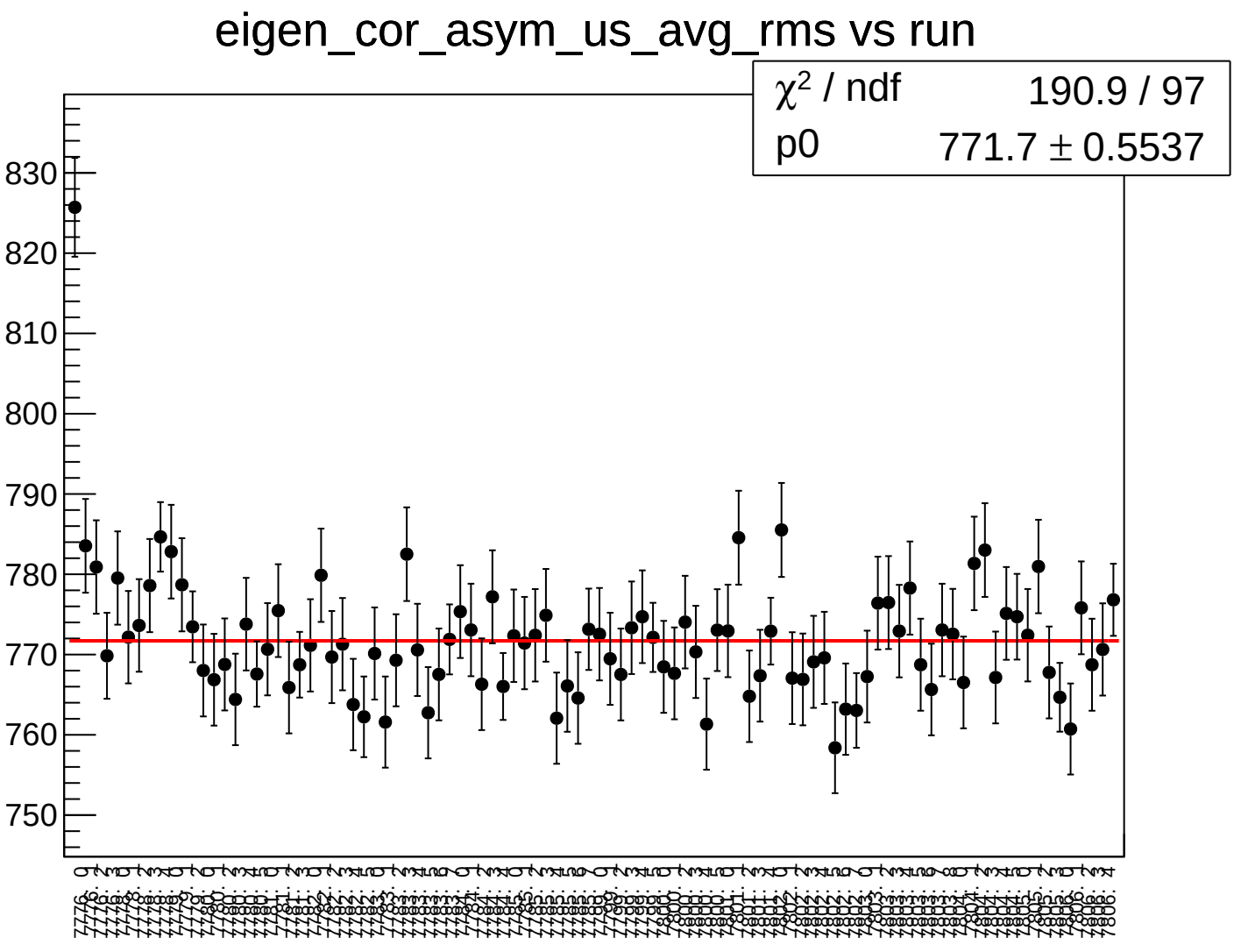

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 82.08 / 97
p0 1401 ± 1612
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 518
Std Dev 0
2
1
0
−1
−2

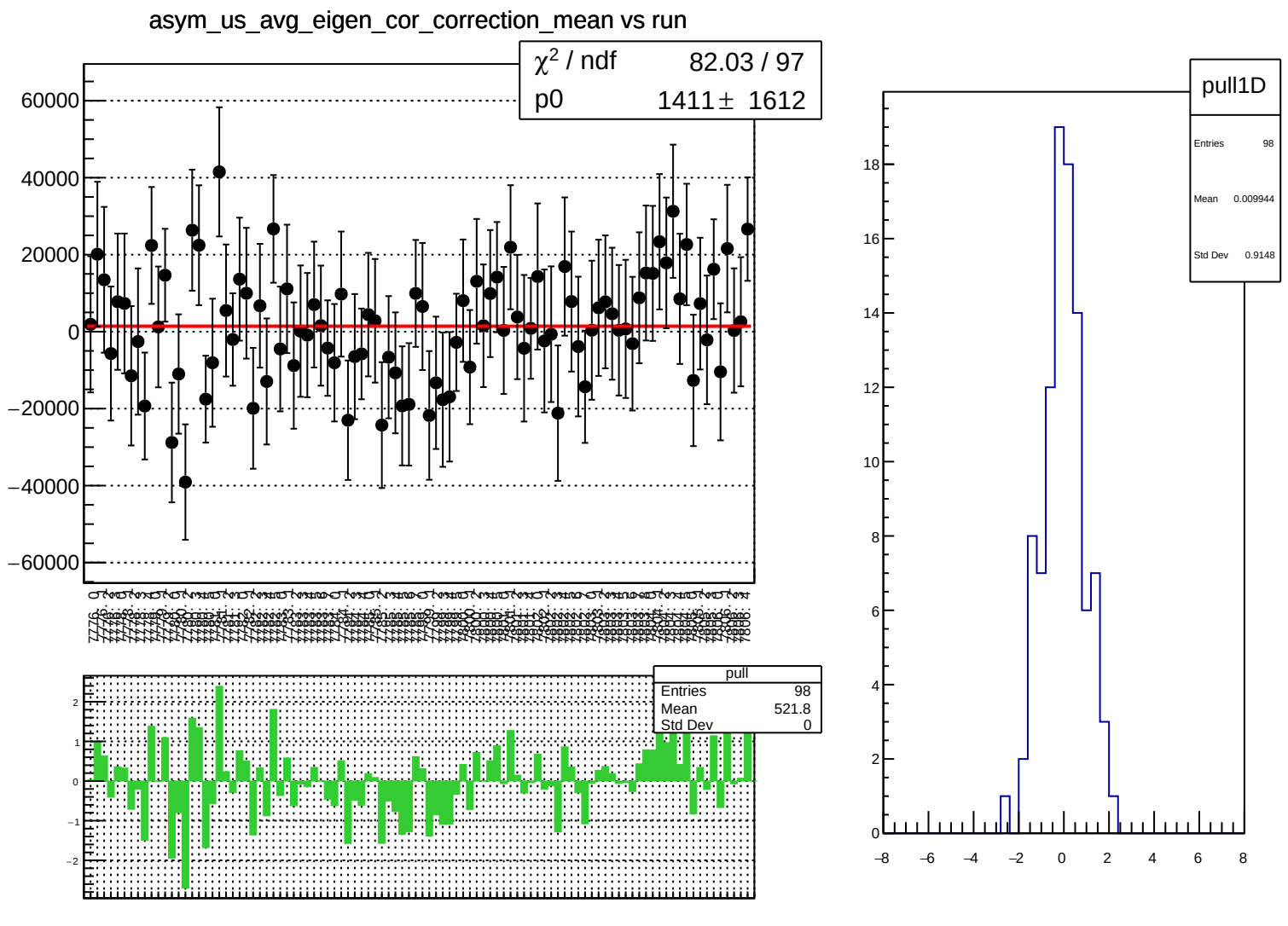

pull1D
Entries 98
Mean 0.01004
Std Dev 0.9151
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

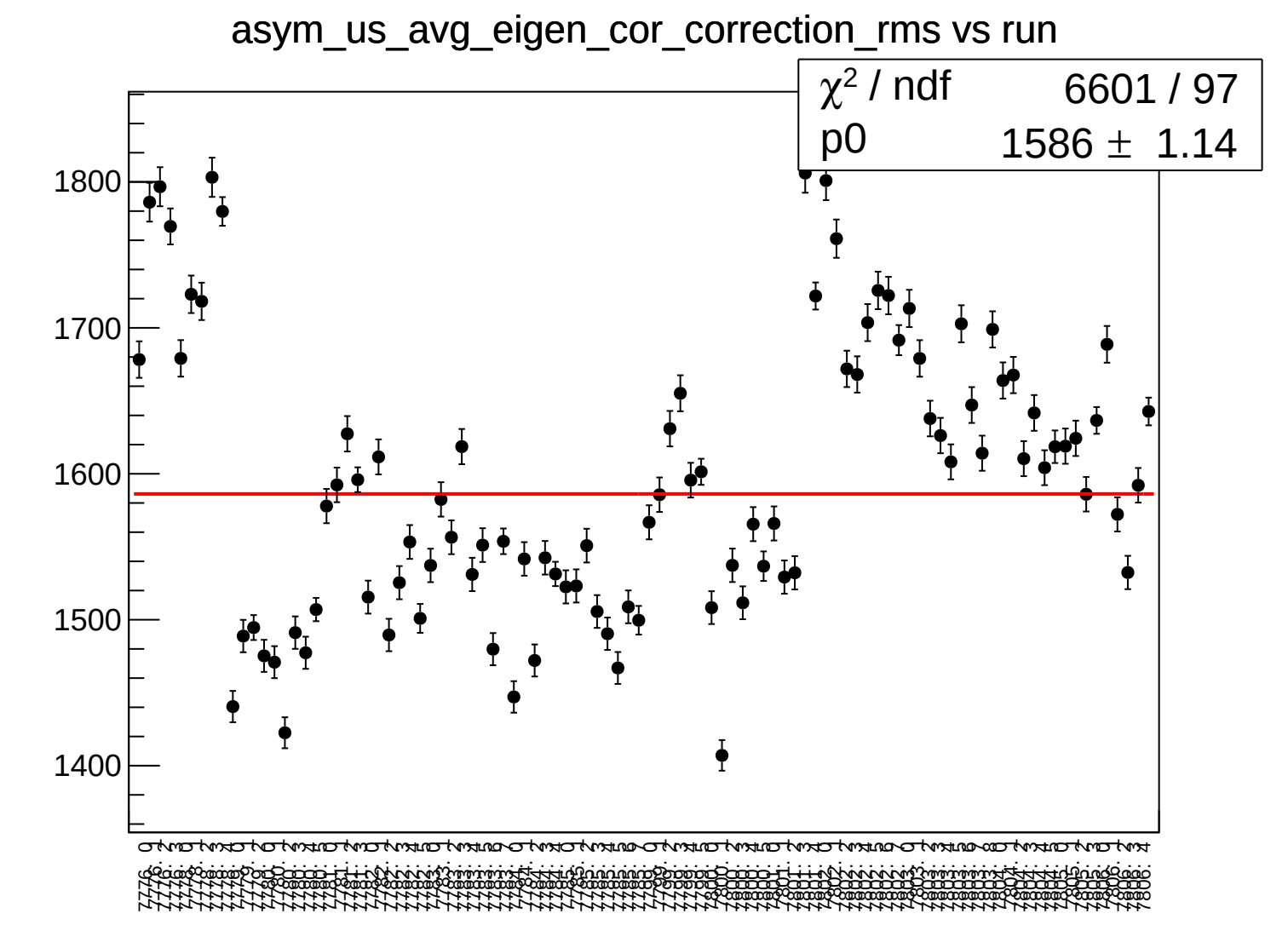

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 6594 / 97
p0 1586 ± 1.14
1800
1700
1600
1500
1400

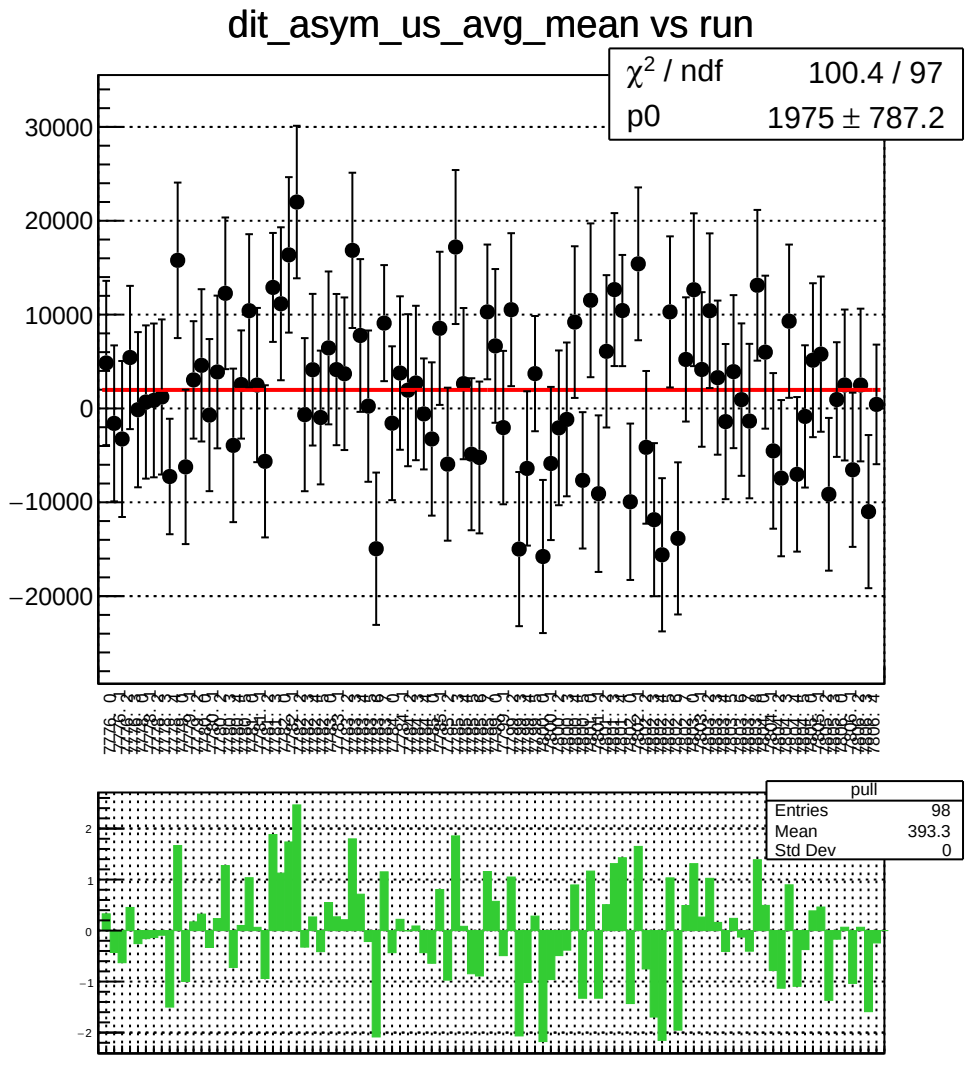

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 99.36 / 97
p0 2011 ± 783
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 482.6
Std Dev 0
2
1
0
−1
−2

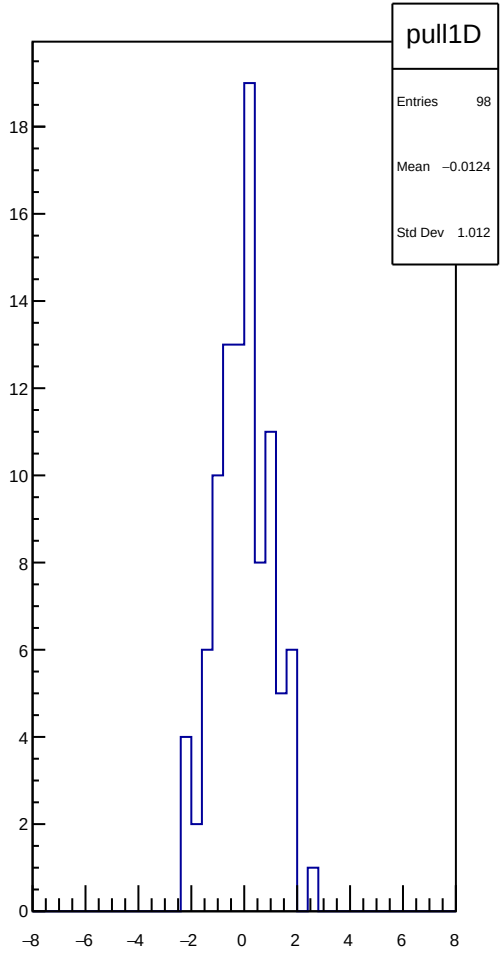

pull1D
Entries 98
Mean −0.01164
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

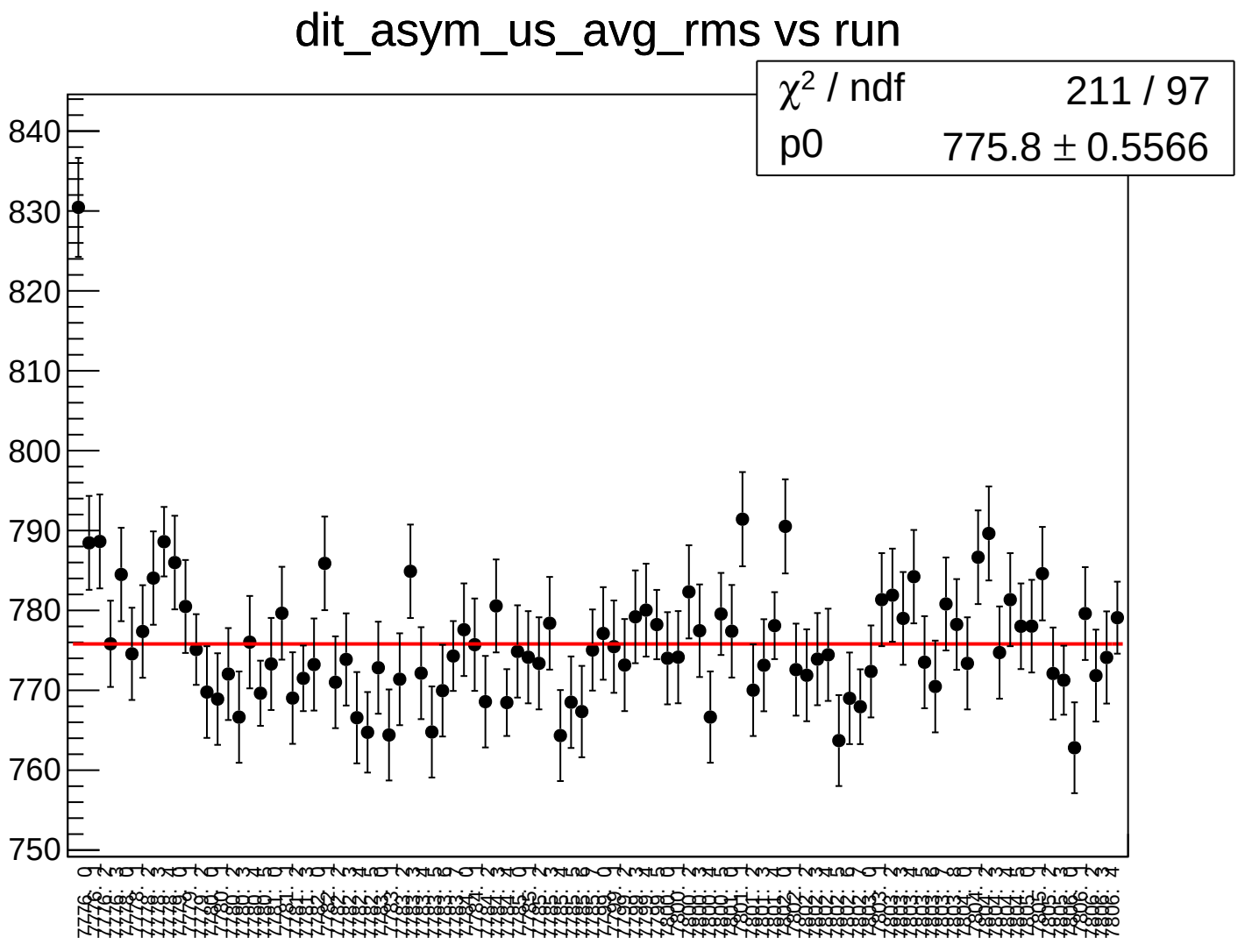

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 190.9 / 97
p0 771.7 ± 0.5537
830
820
810
800
790
780
770
760
750

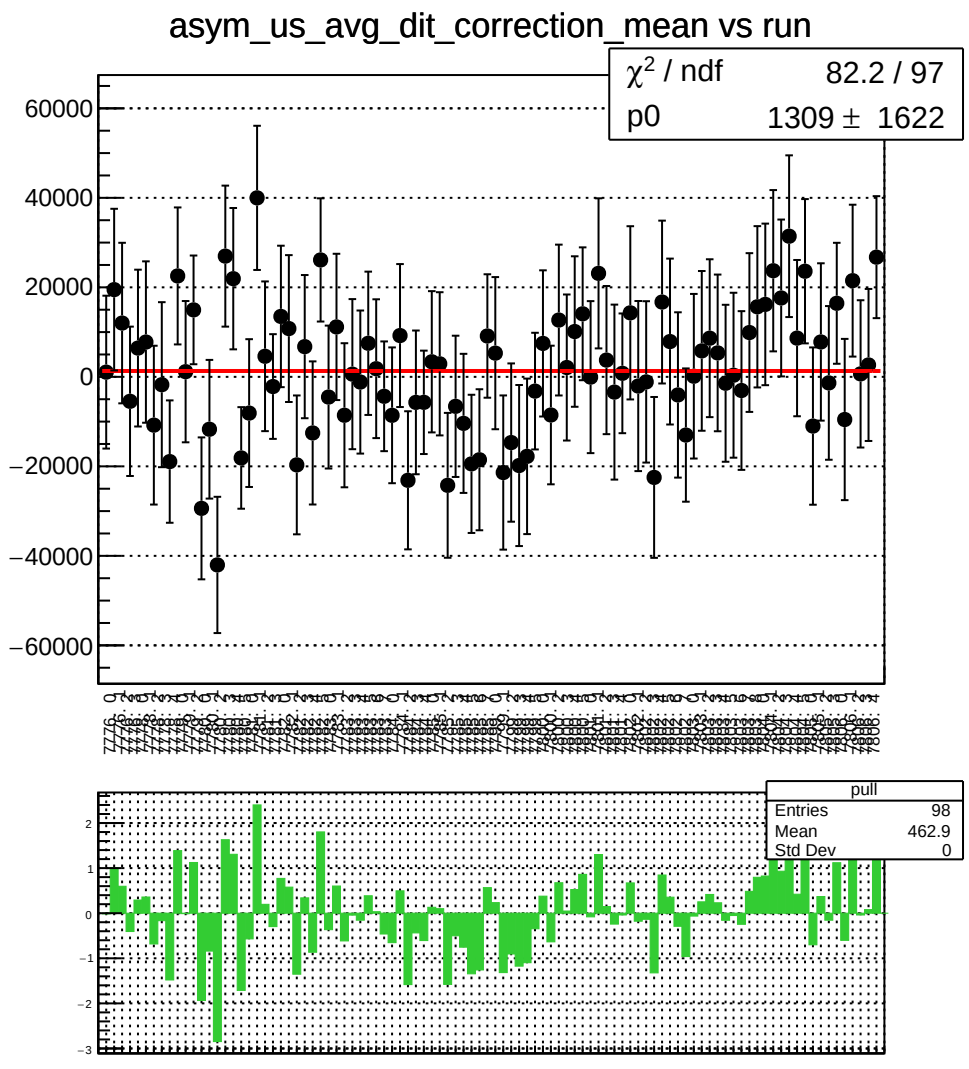

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.03 / 97
p0 1411 ± 1612
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 521.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.009944
Std Dev 0.9148
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

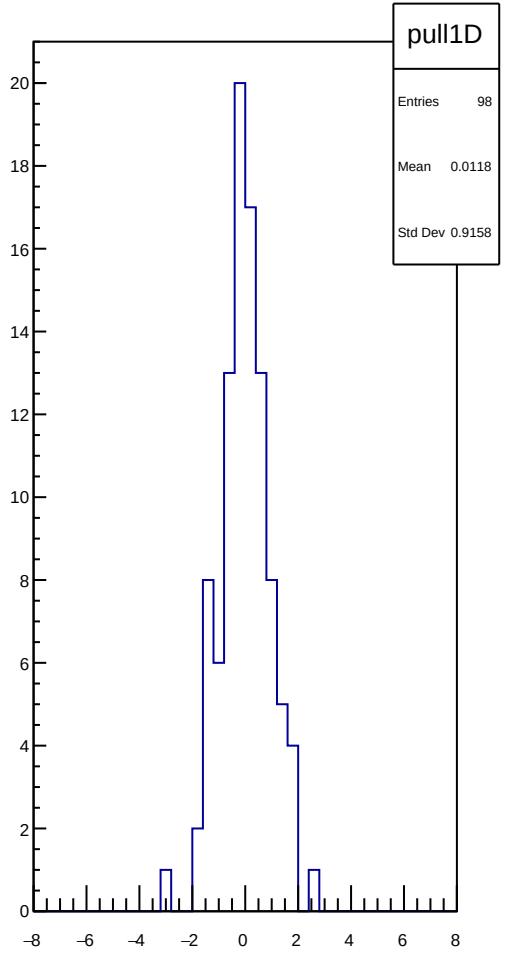

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 6601 / 97
p0 1586 ± 1.14
1800
1700
1600
1500
1400

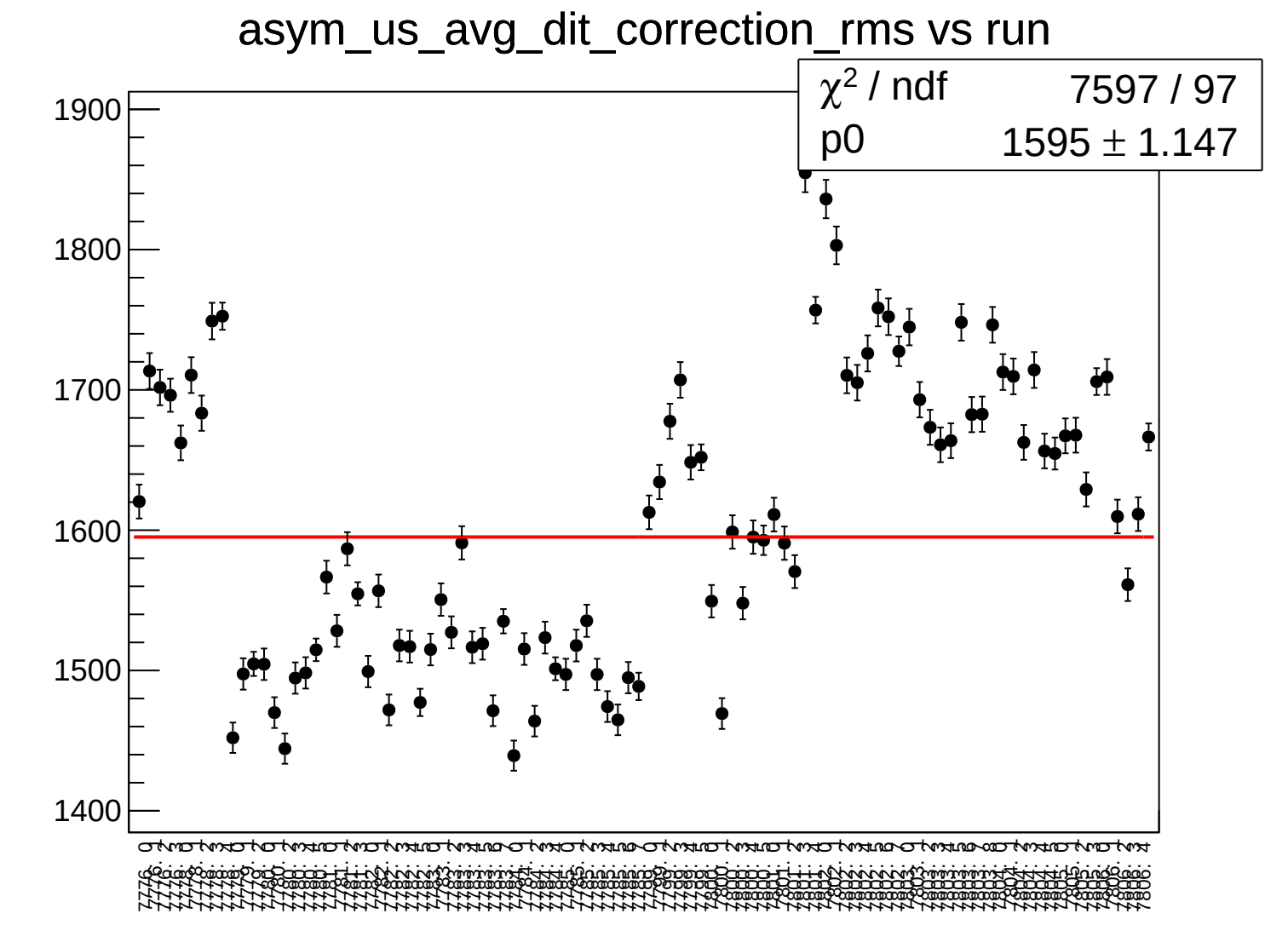

dit_asym_us_avg_mean vs run
χ² / ndf 100.4 / 97
p0 1975 ± 787.2
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 393.3
Std Dev 0
2
1
0
−1
−2

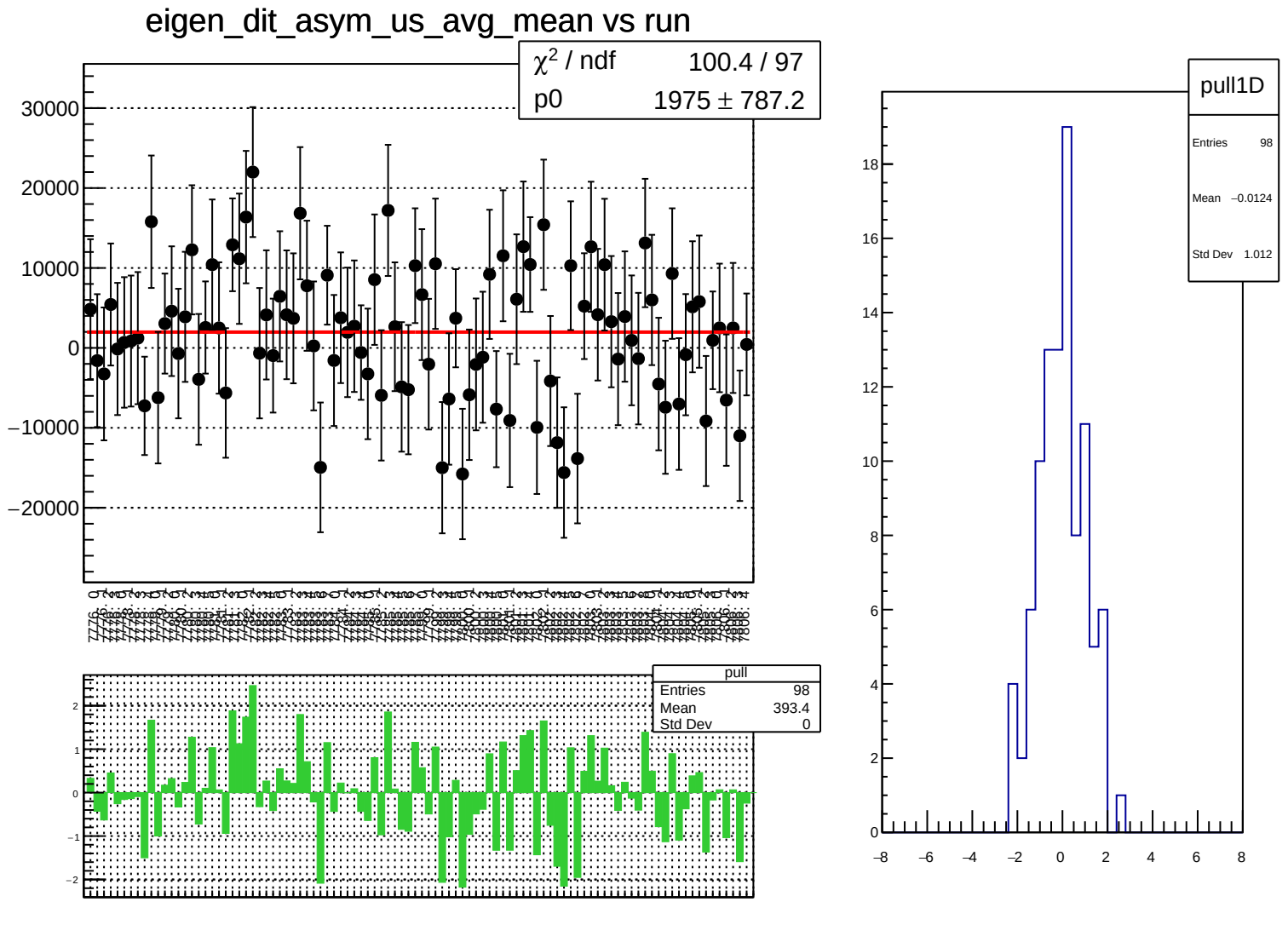

pull1D
Entries 98
Mean −0.0124
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

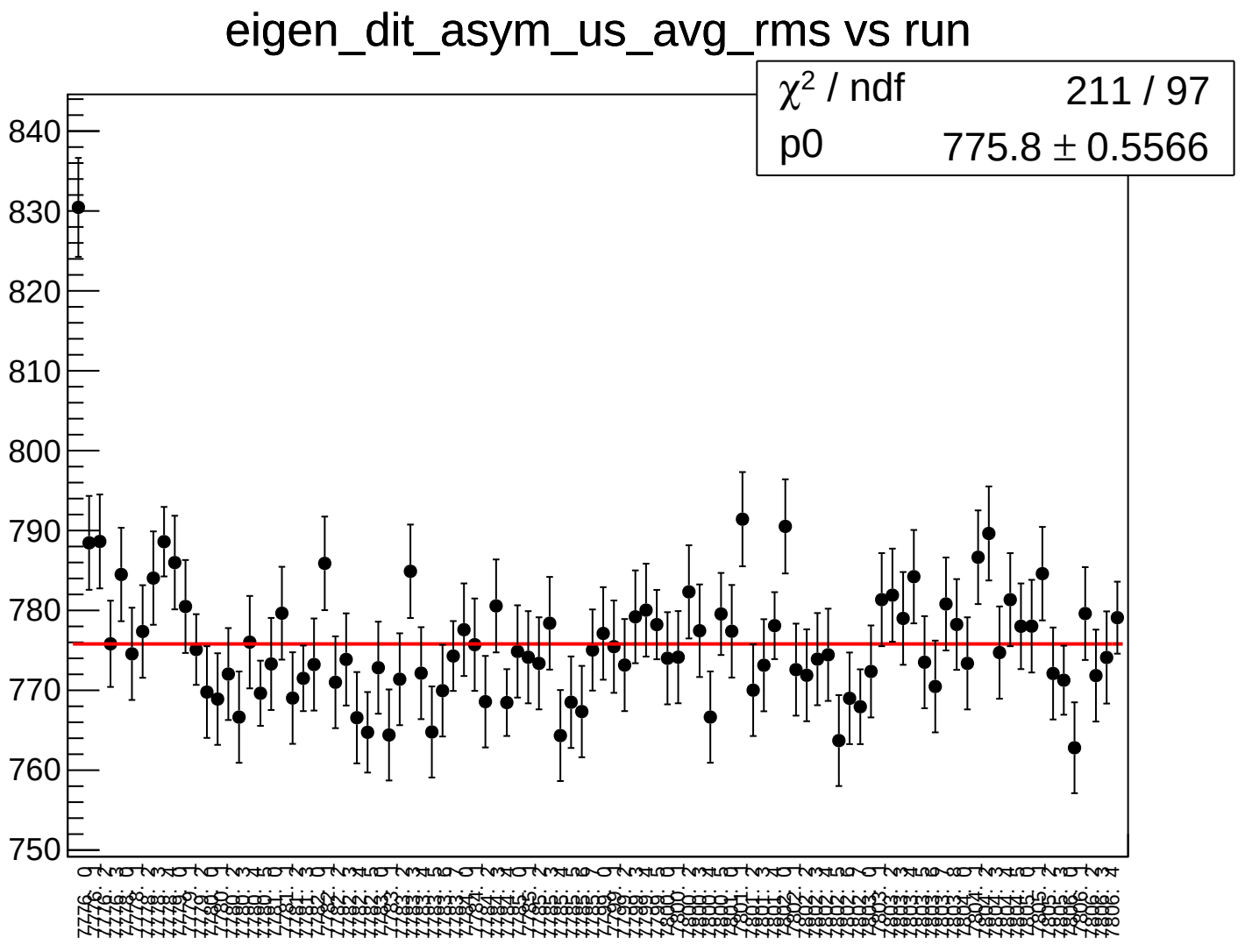

dit_asym_us_avg_rms vs run
χ² / ndf 211 / 97
p0 775.8 ± 0.5566
840
830
820
810
800
790
780
770
760
750

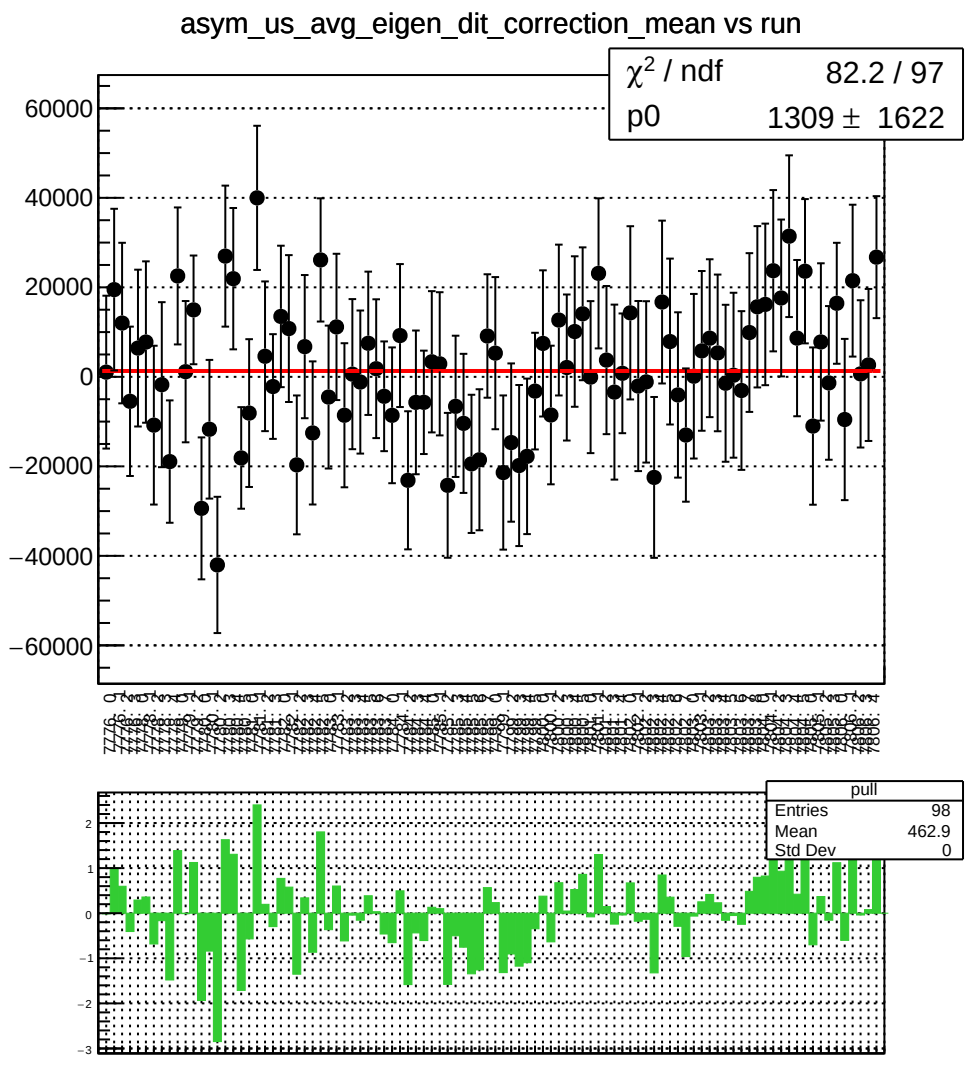

asym_us_avg_dit_correction_mean vs run
χ² / ndf 82.2 / 97
p0 1309 ± 1622
pull
Entries 98
Mean 462.9
Std Dev 0

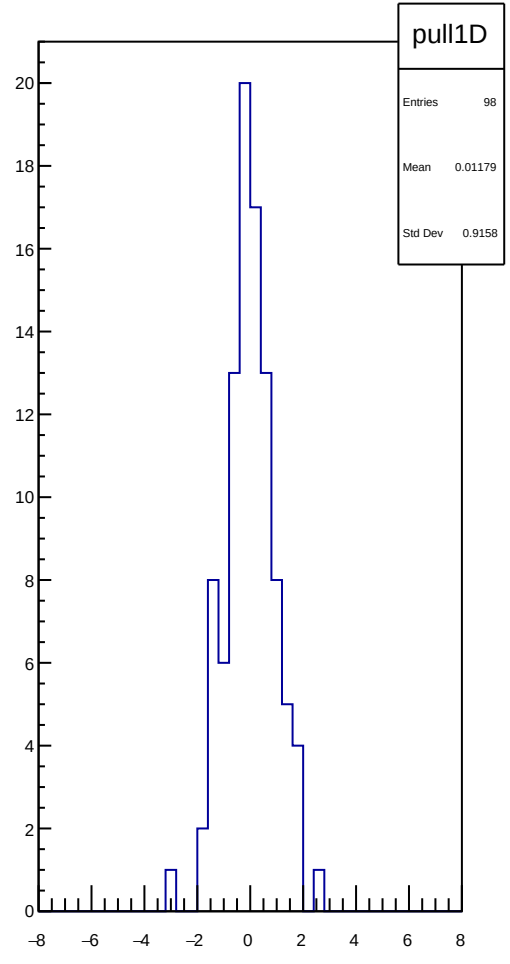

pull1D
Entries 98
Mean 0.0118
Std Dev 0.9158

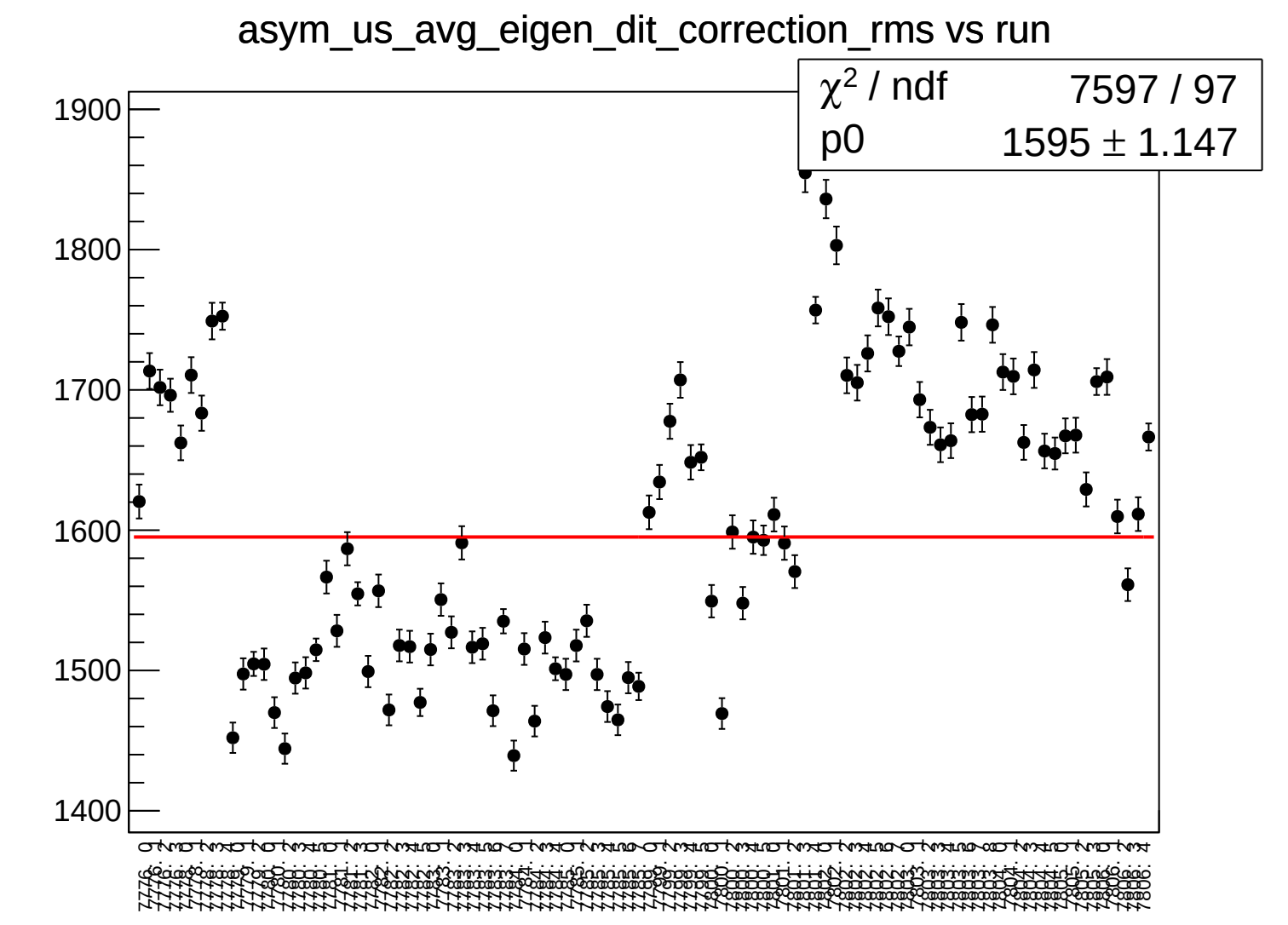

asym_us_avg_dit_correction_rms vs run
χ² / ndf 7597 / 97
p0 1595 ± 1.147
1900
1800
1700
1600
1500
1400

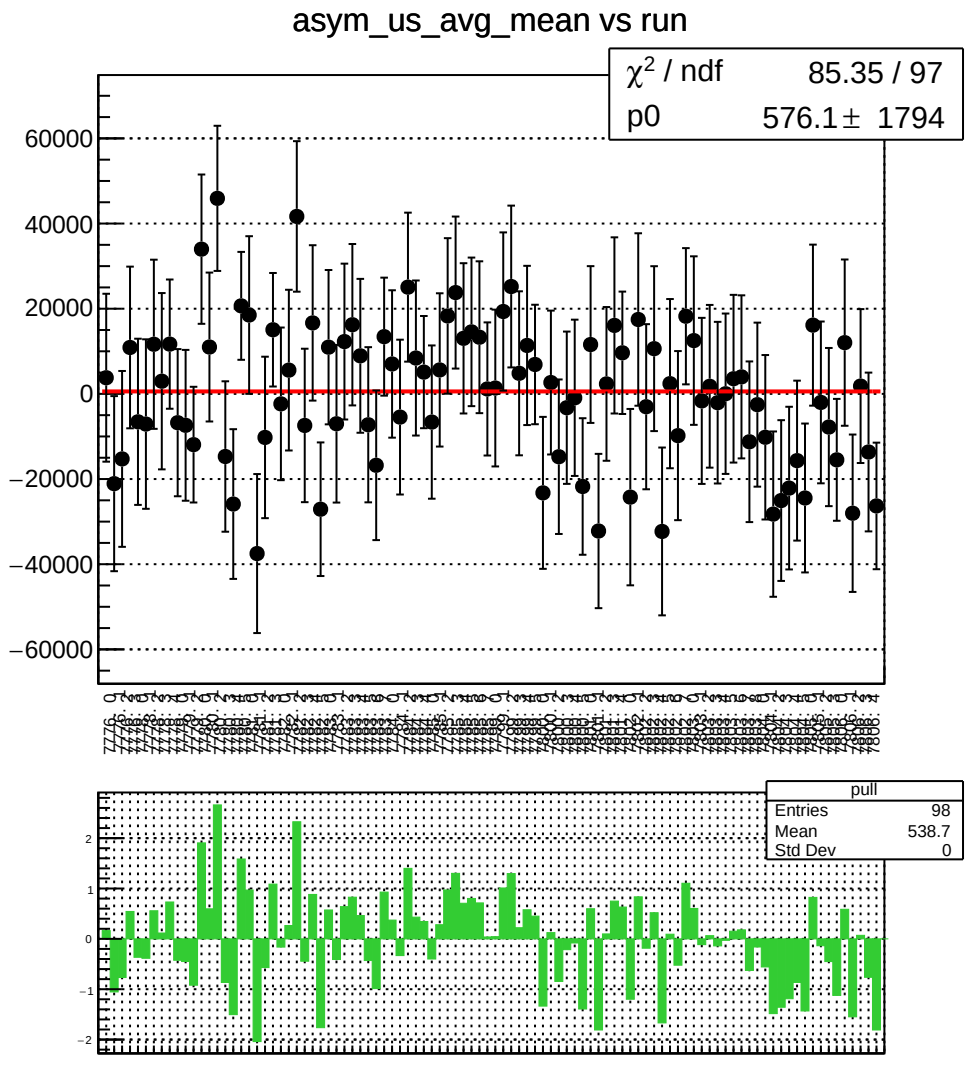

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 100.4 / 97
p0 1975 ± 787.2
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 393.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.0124
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

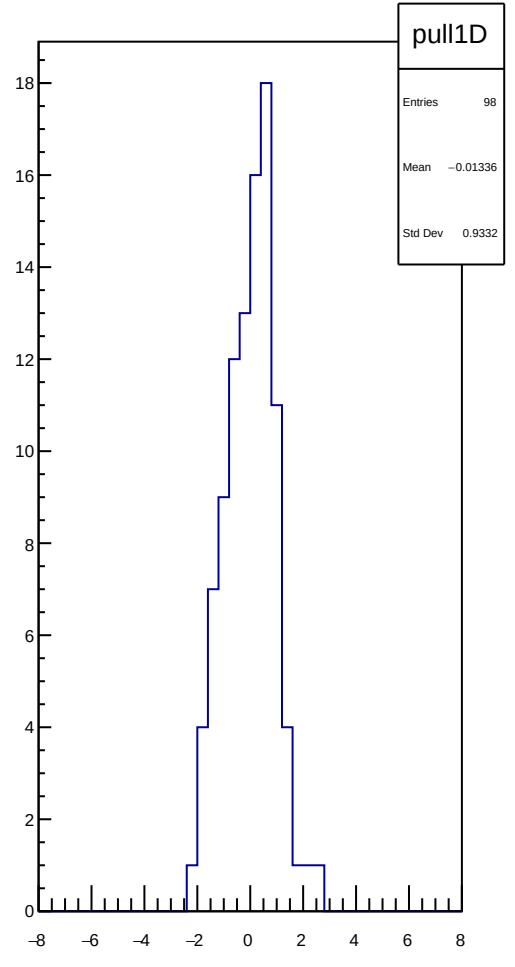

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 211 / 97
p0 775.8 ± 0.5566
840
830
820
810
800
790
780
770
760
750

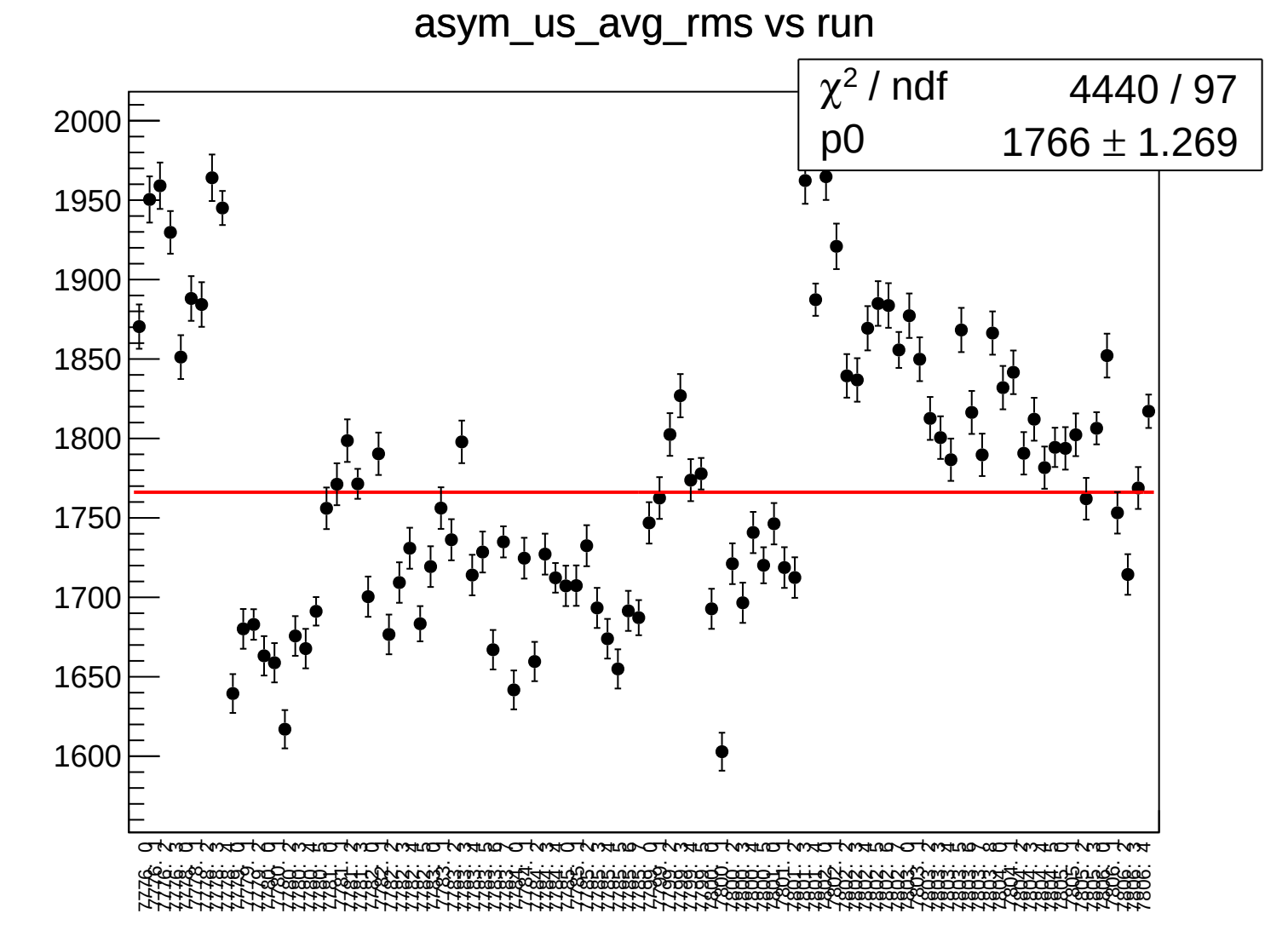

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.2 / 97
p0 1309 ± 1622
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 462.9
Std Dev 0
2
1
0
−1
−2
−3

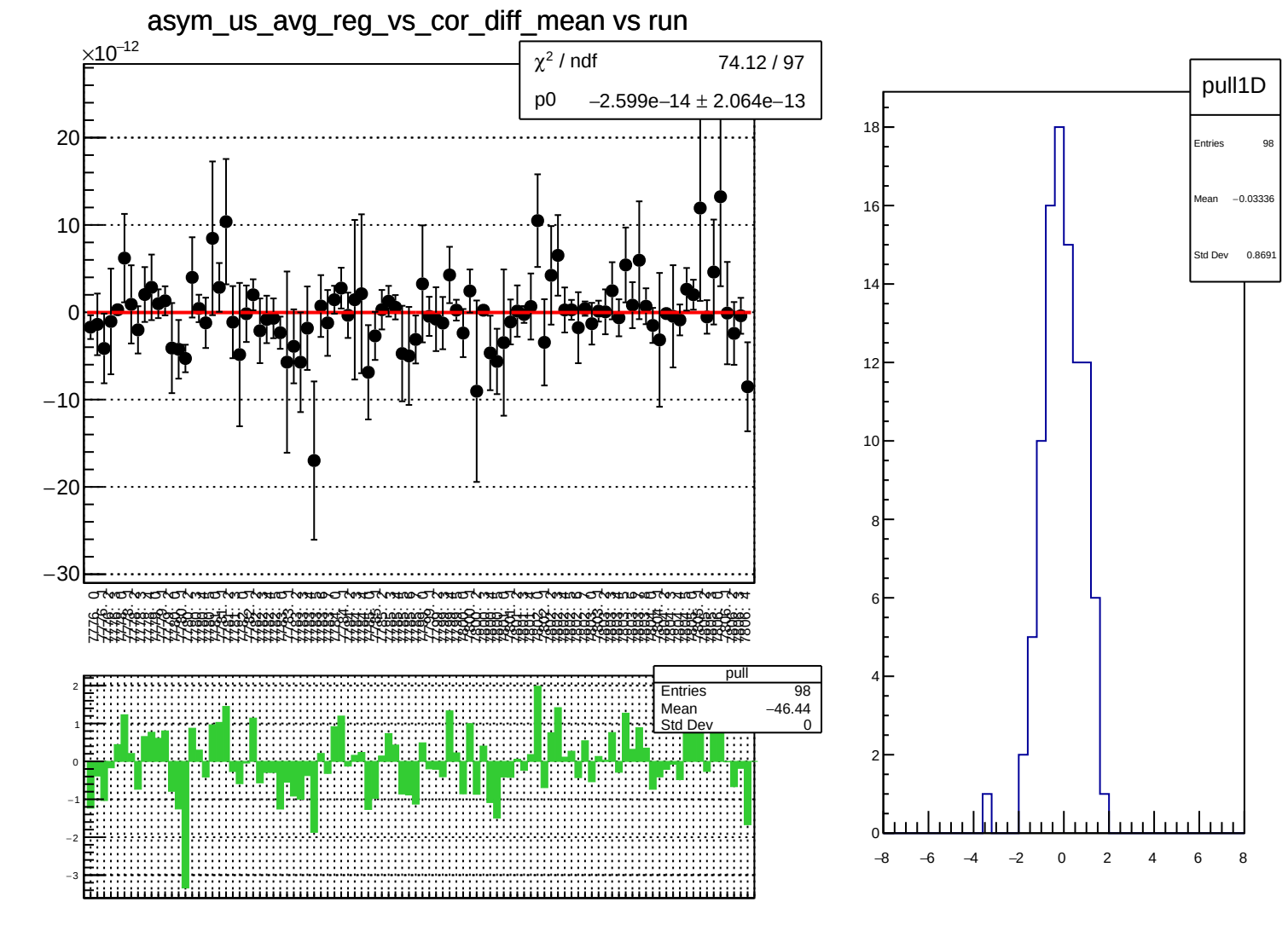

pull1D
Entries 98
Mean 0.01179
Std Dev 0.9158
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

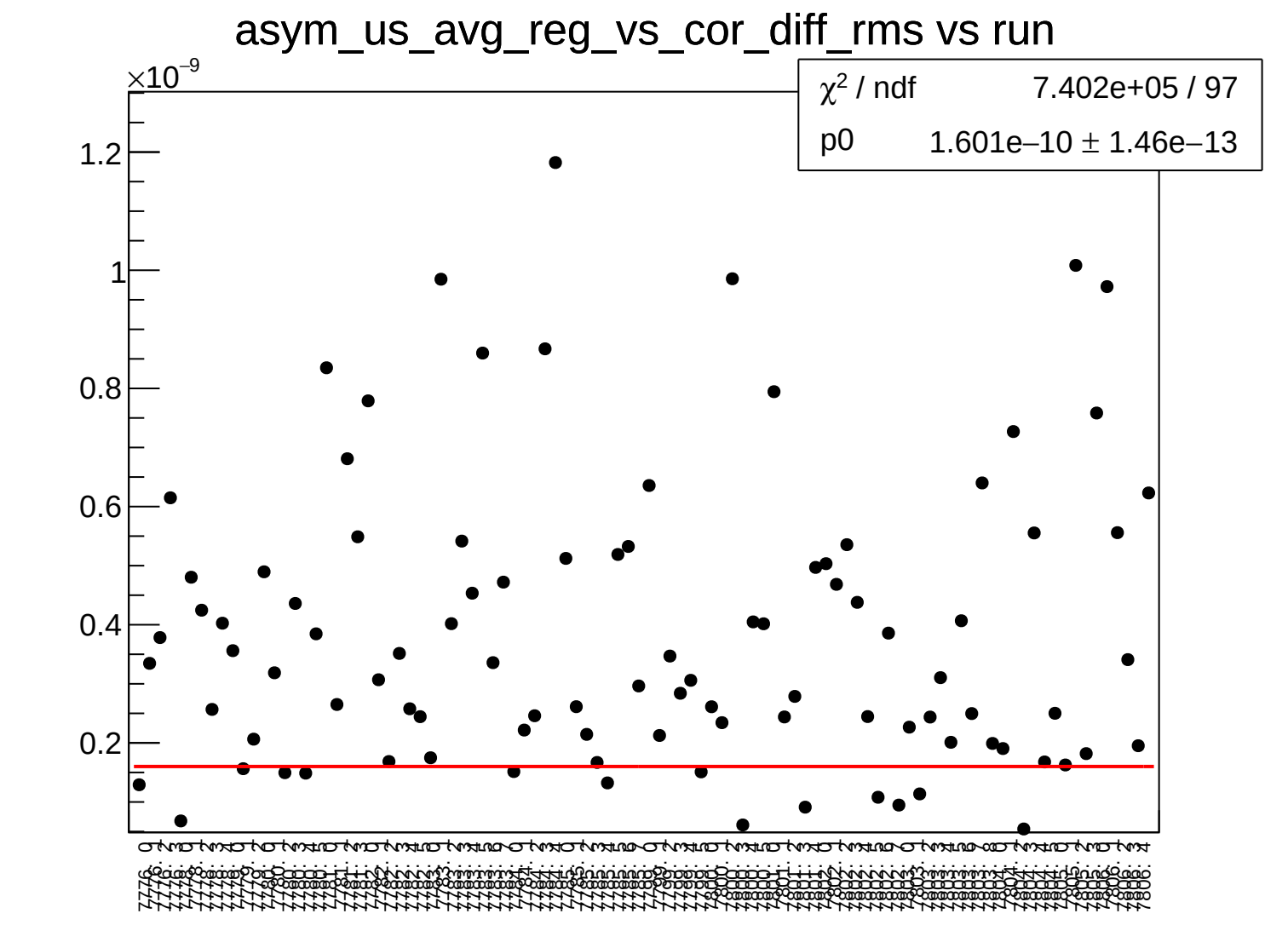

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 7597 / 97
p0 1595 ± 1.147
1900
1800
1700
1600
1500
1400

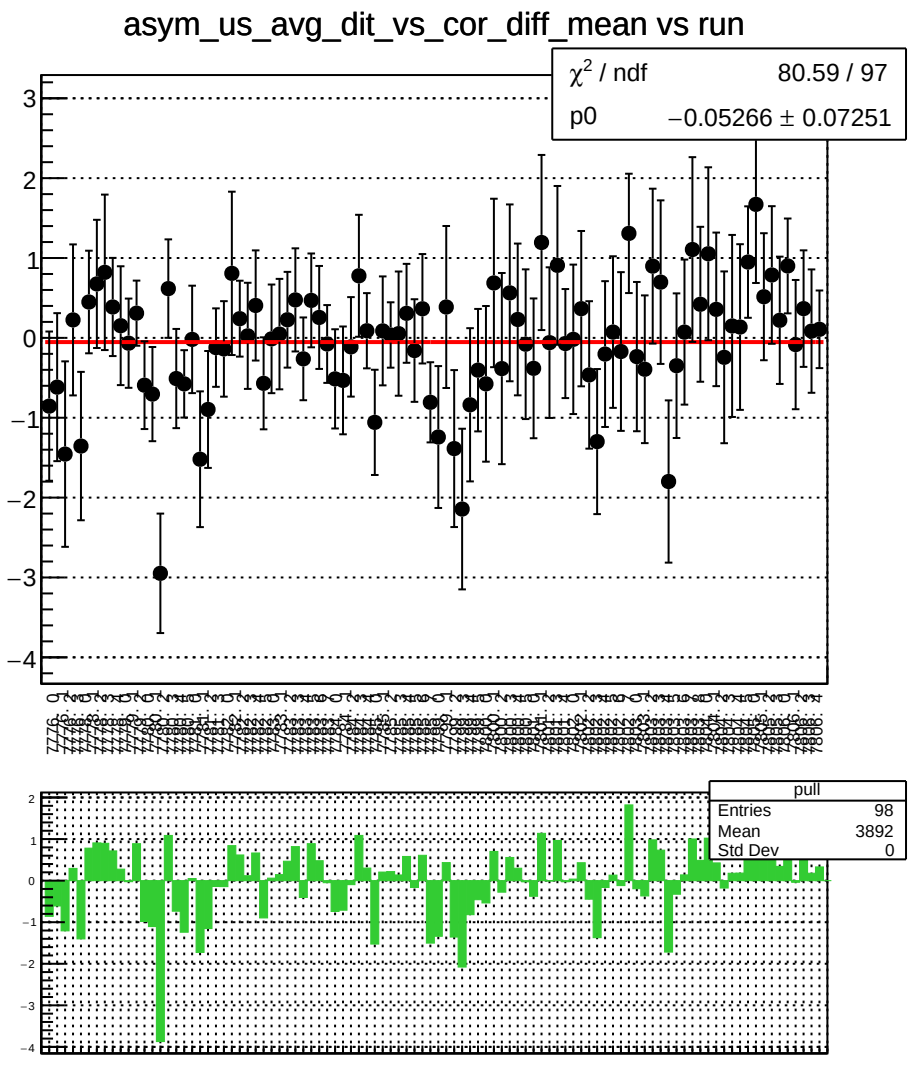

asym_us_avg_mean vs run
χ² / ndf 85.35 / 97
p0 576.1 ± 1794
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 538.7
Std Dev 0
2
1
0
−1
−2

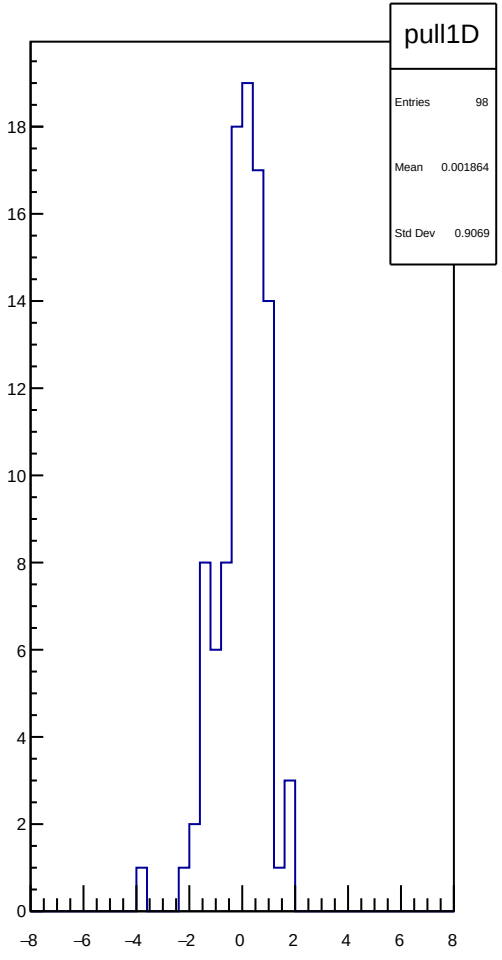

pull1D
Entries 98
Mean −0.01336
Std Dev 0.9332
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

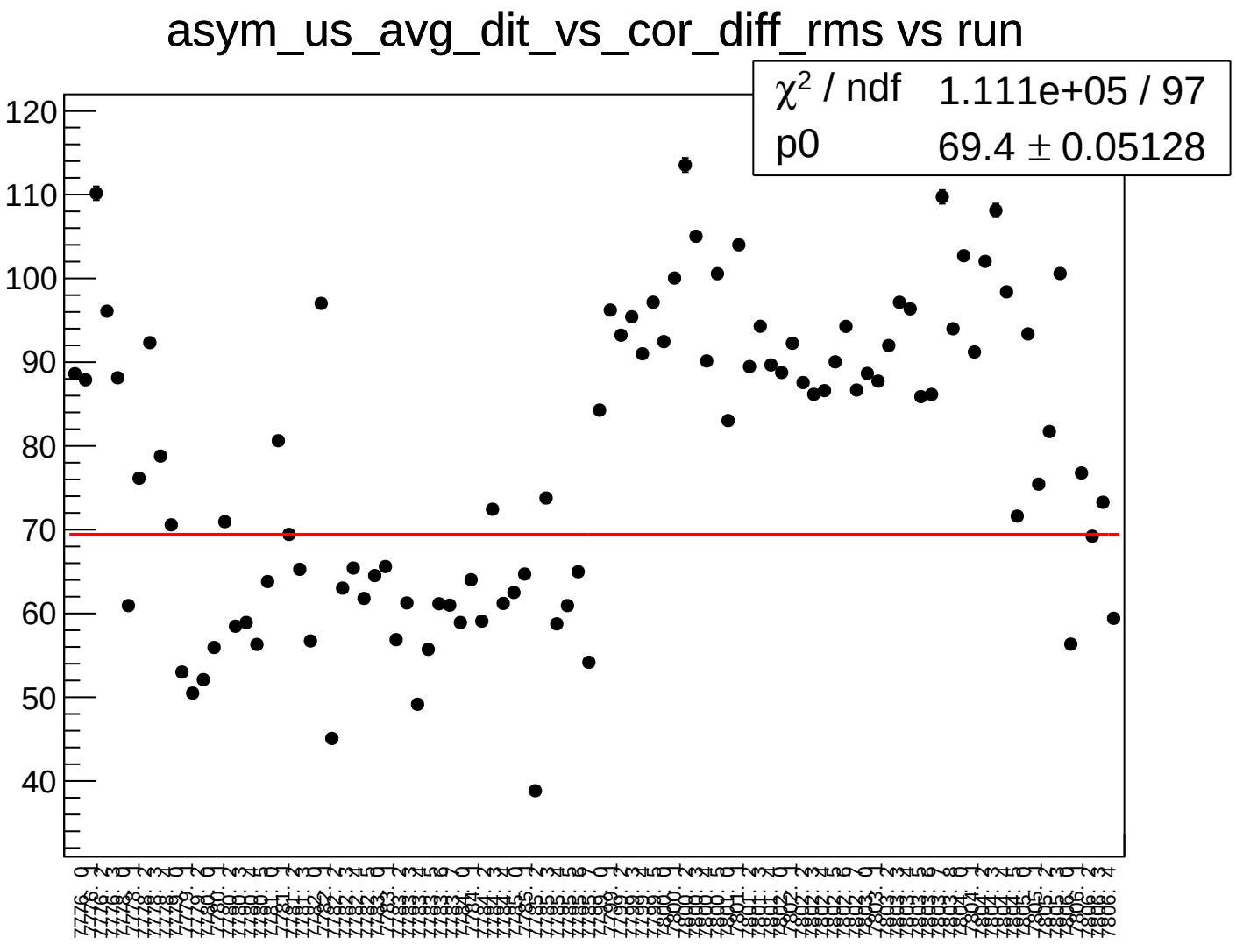

asym_us_avg_rms vs run
χ^2 / ndf 4440 / 97
p0 1766 ± 1.269
2000
1950
1900
1850
1800
1750
1700
1650
1600

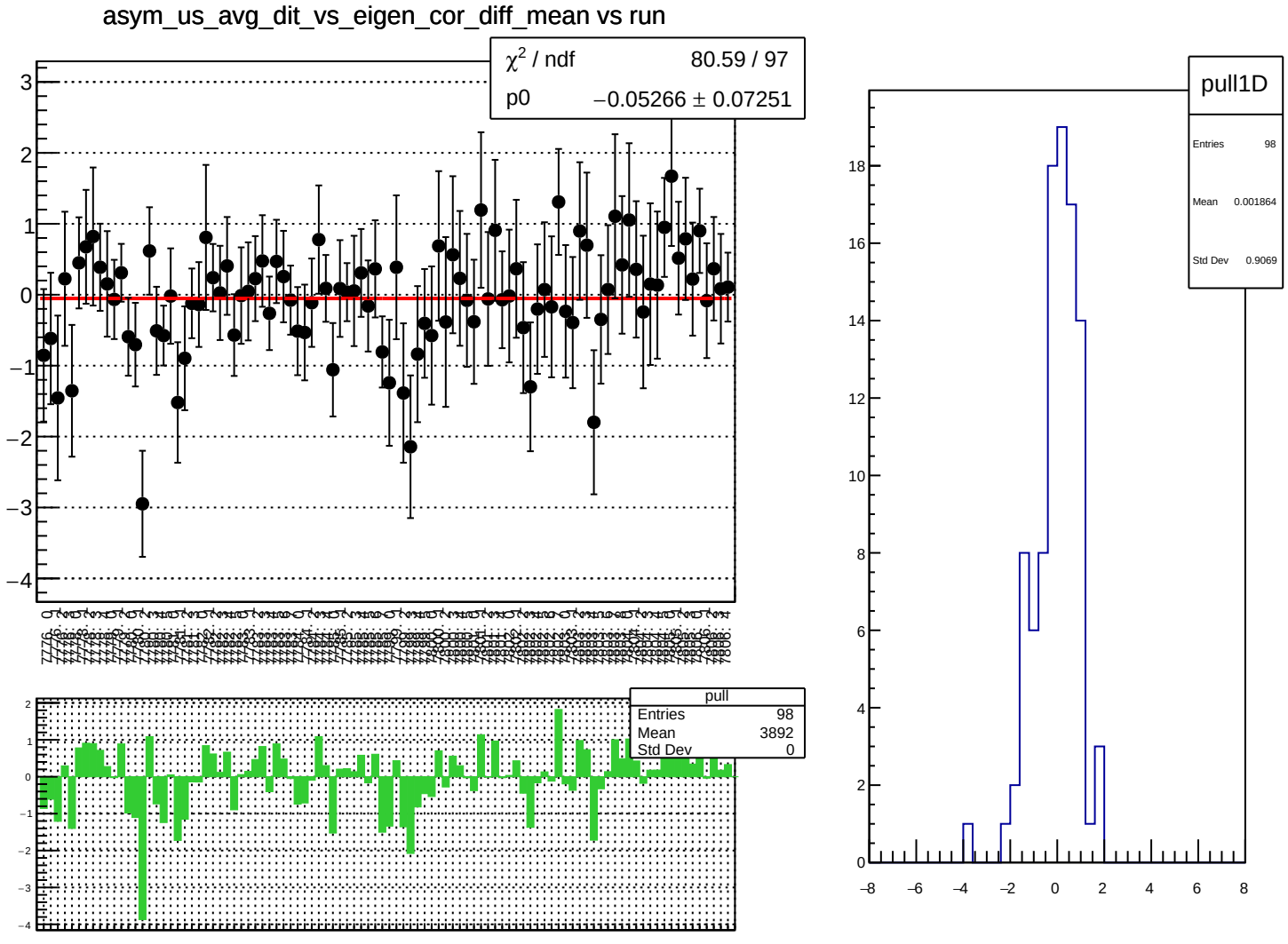

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.12 / 97
p0 −2.599e−14 ± 2.064e−13
pull
Entries 98
Mean −46.44
Std Dev 0
pull1D
Entries 98
Mean −0.03336
Std Dev 0.8691

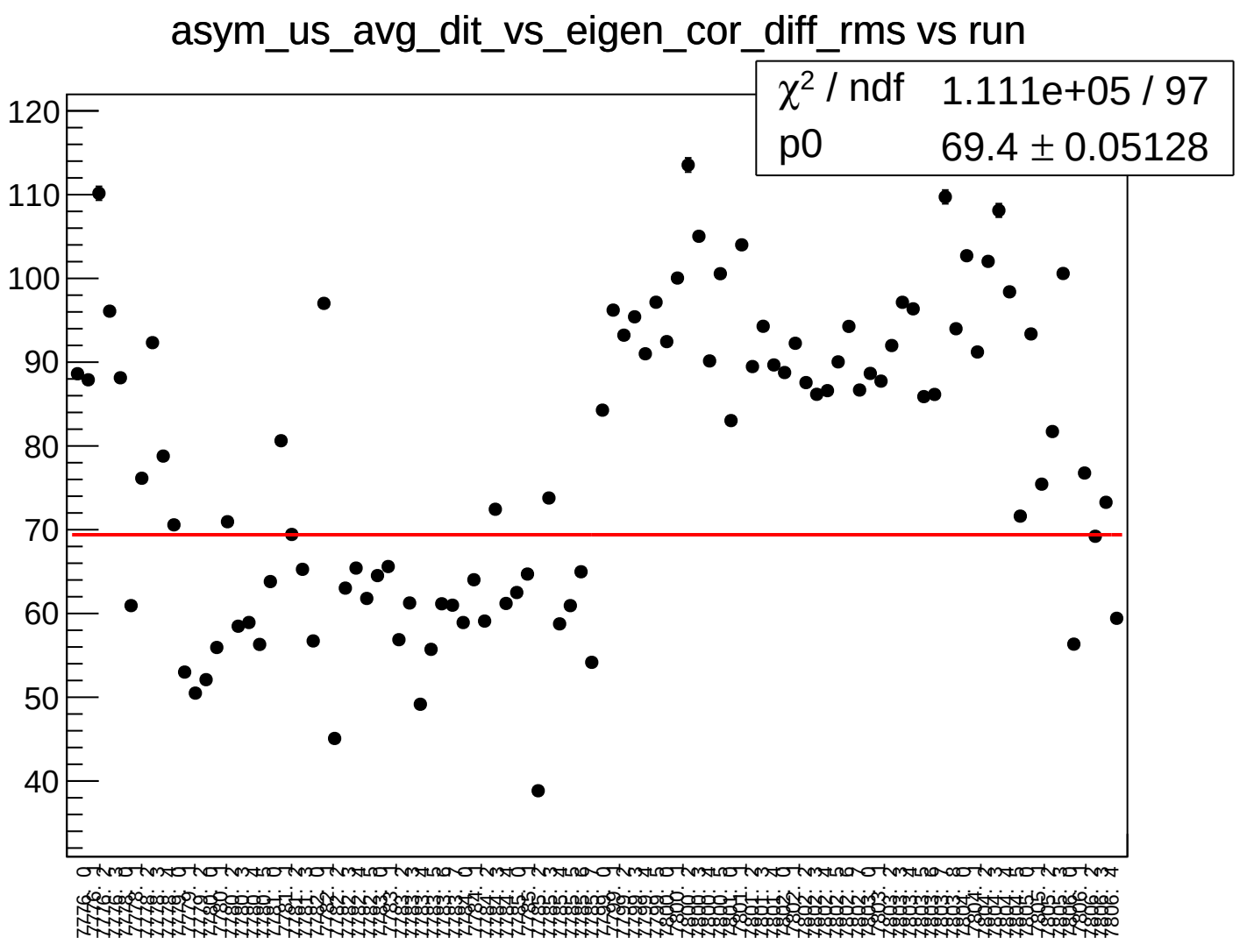

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.402e+05 / 97
p0 1.601e−10 ± 1.46e−13
1.2
1
0.8
0.6
0.4
0.2

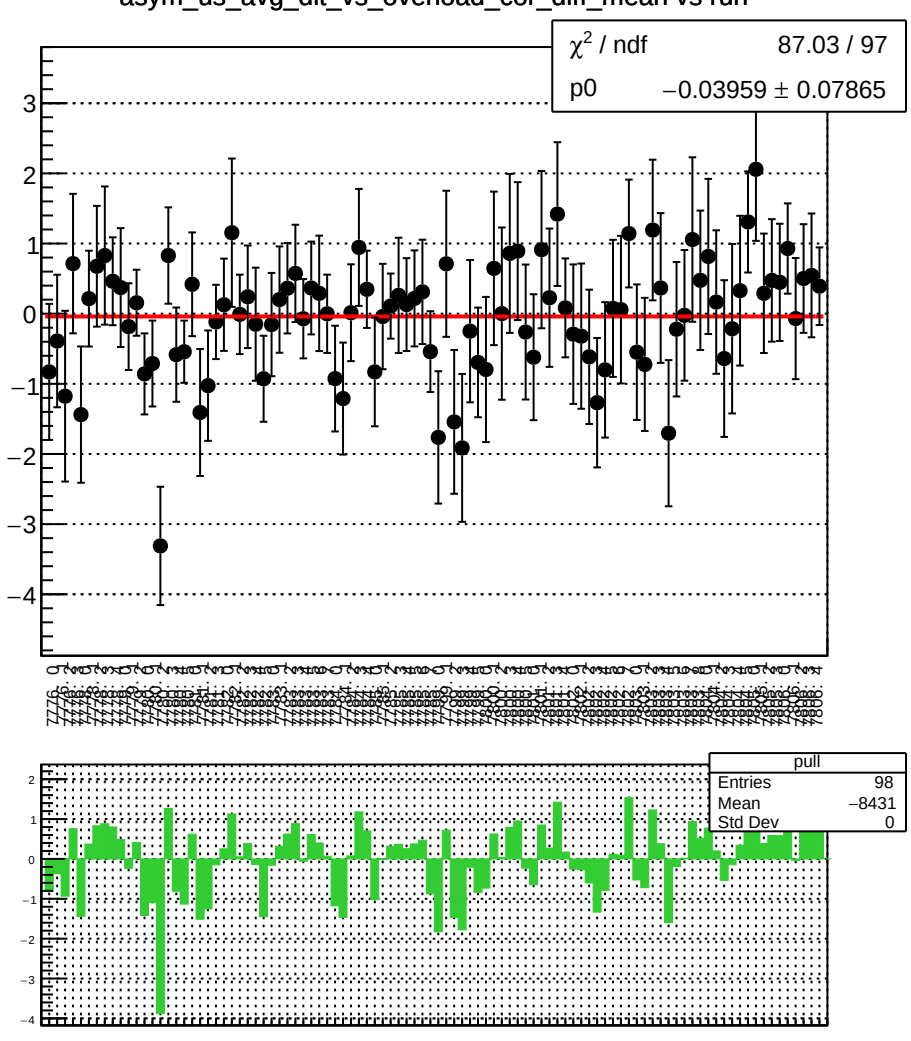

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.59 / 97
p0 −0.05266 ± 0.07251
pull
Entries 98
Mean 3892
Std Dev 0

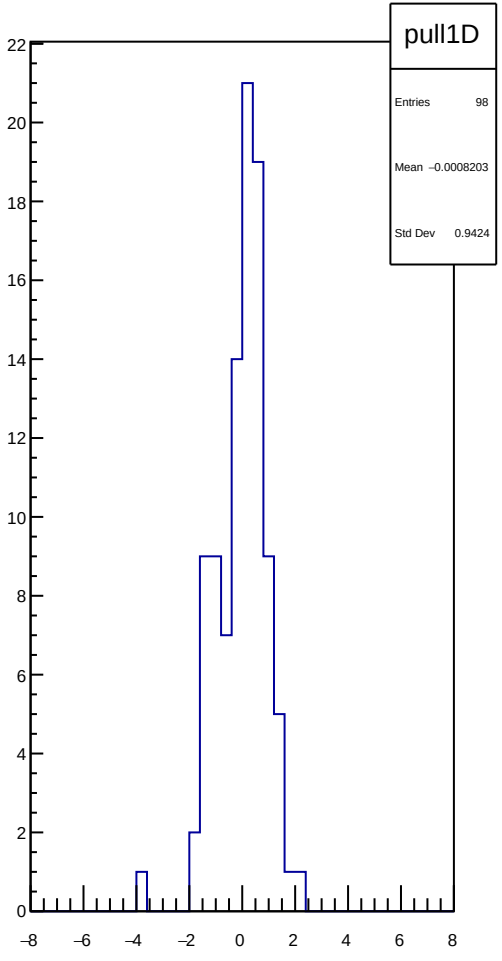

pull1D
Entries 98
Mean 0.001864
Std Dev 0.9069

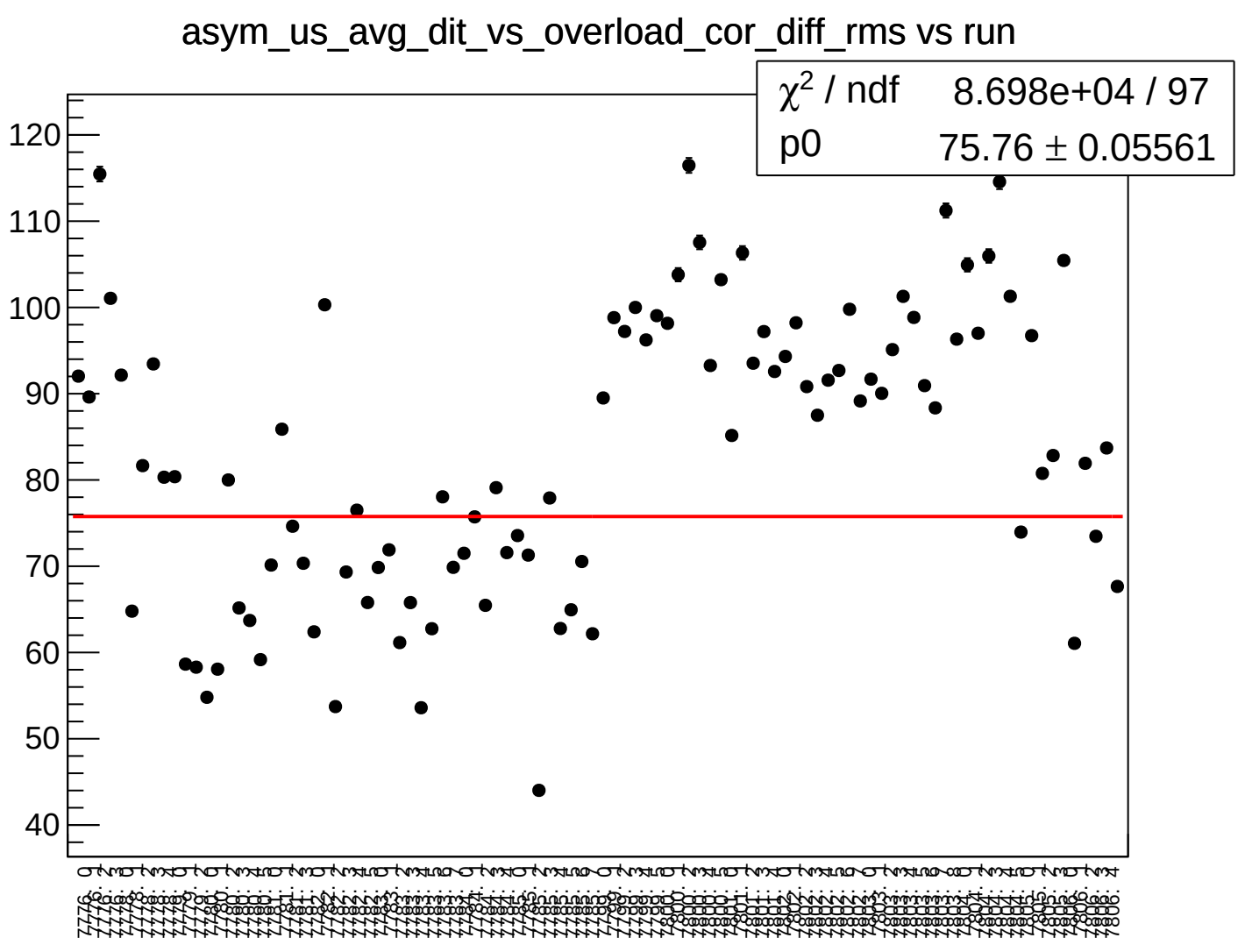

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.111e+05 / 97
p0 69.4 ± 0.05128
120
110
100
90
80
70
60
50
40

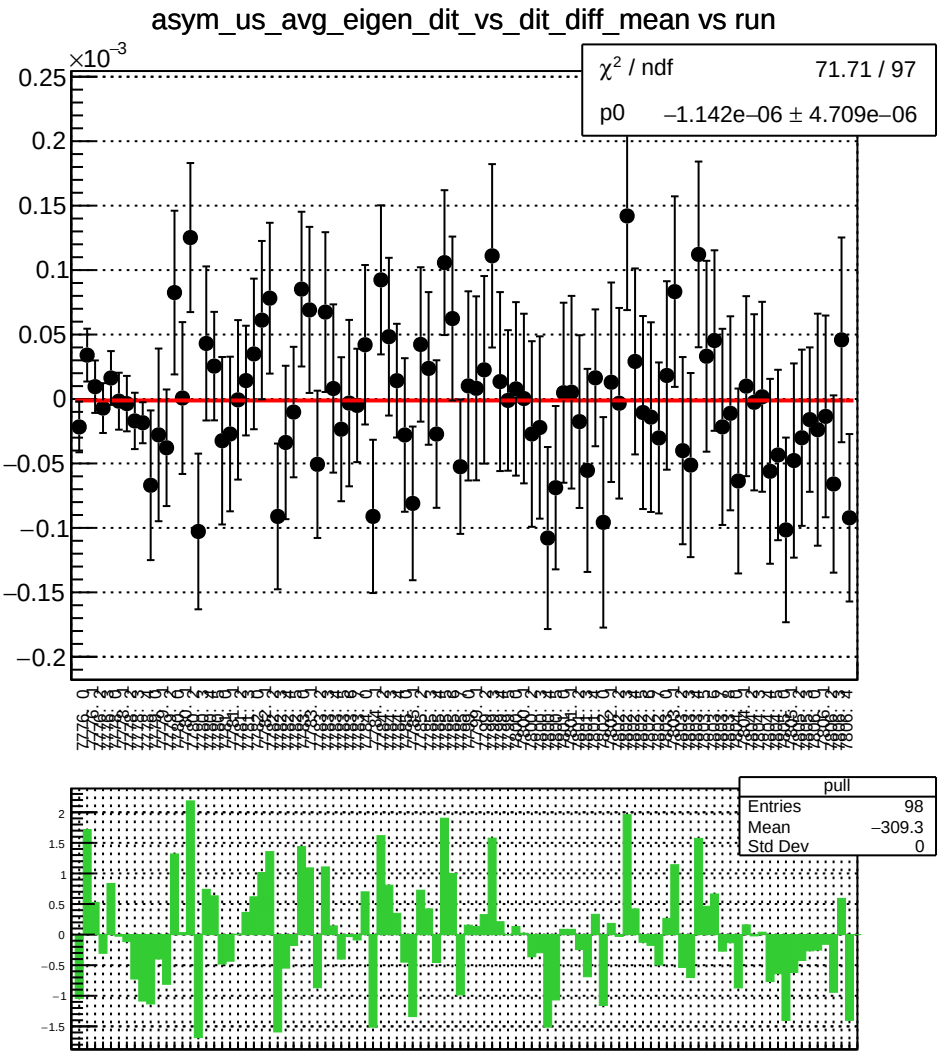

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.59 / 97
p0 −0.05266 ± 0.07251
pull
Entries 98
Mean 3892
Std Dev 0
pull1D
Entries 98
Mean 0.001864
Std Dev 0.9069

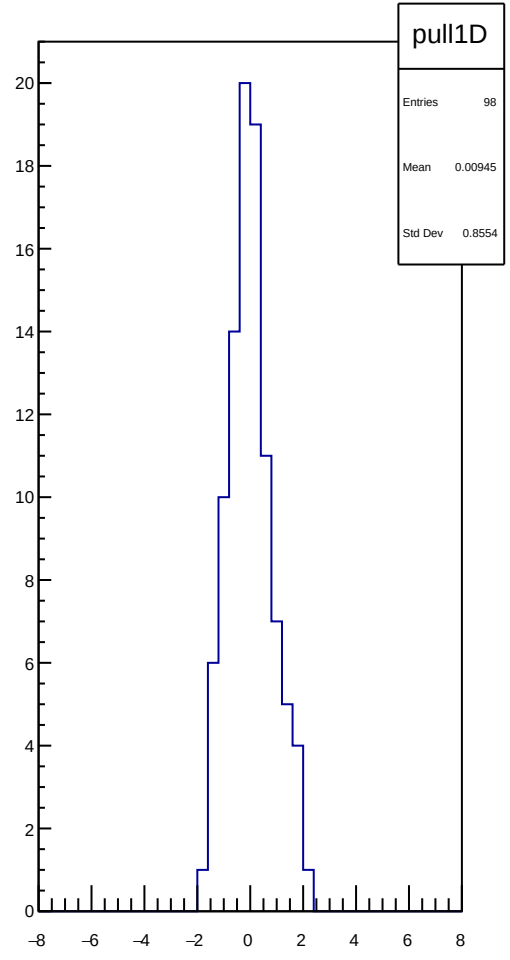

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.111e+05 / 97
p0 69.4 ± 0.05128
120
110
100
90
80
70
60
50
40

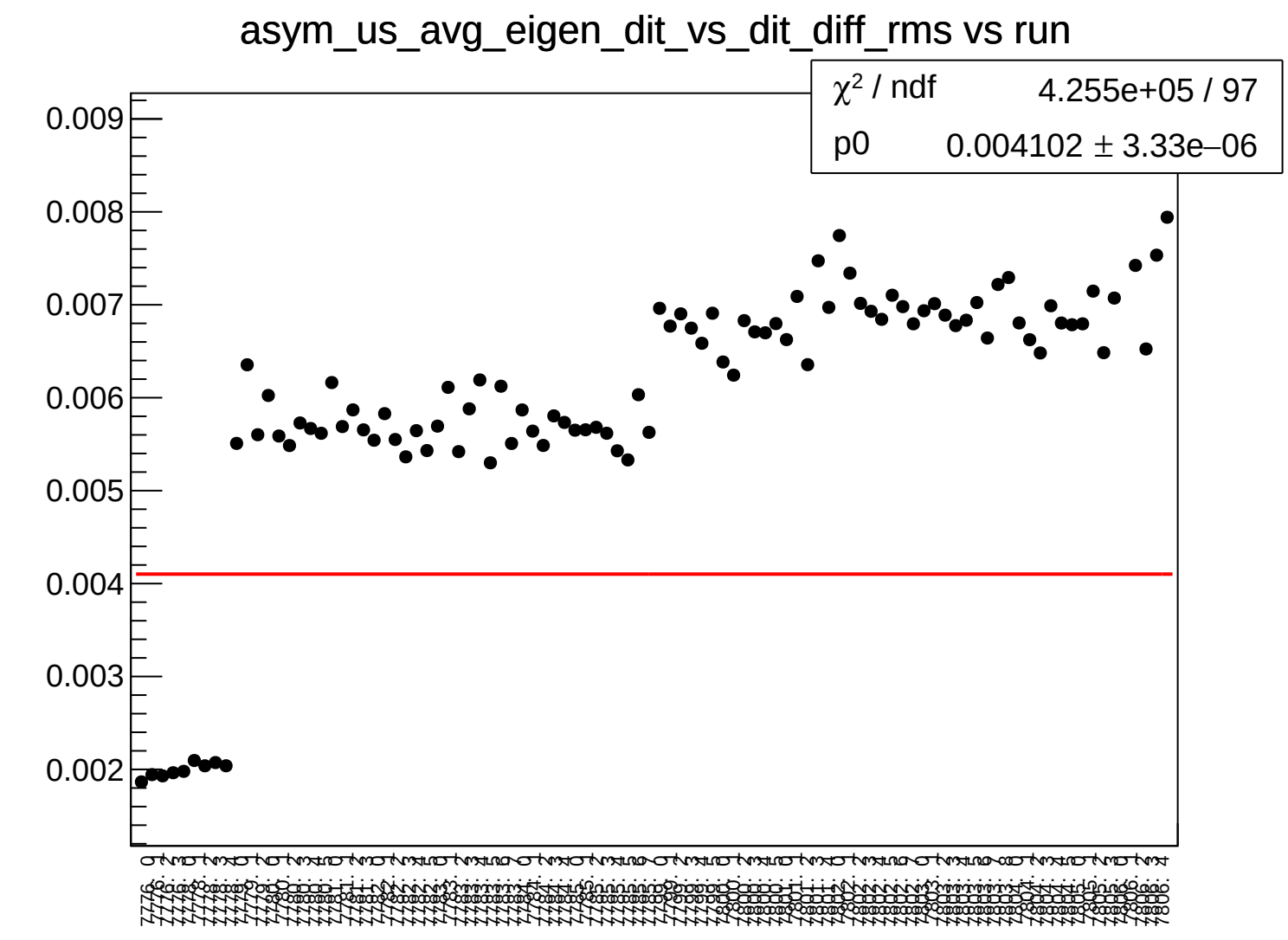

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.03 / 97
p0 −0.03959 ± 0.07865
pull
Entries 98
Mean −8431
Std Dev 0

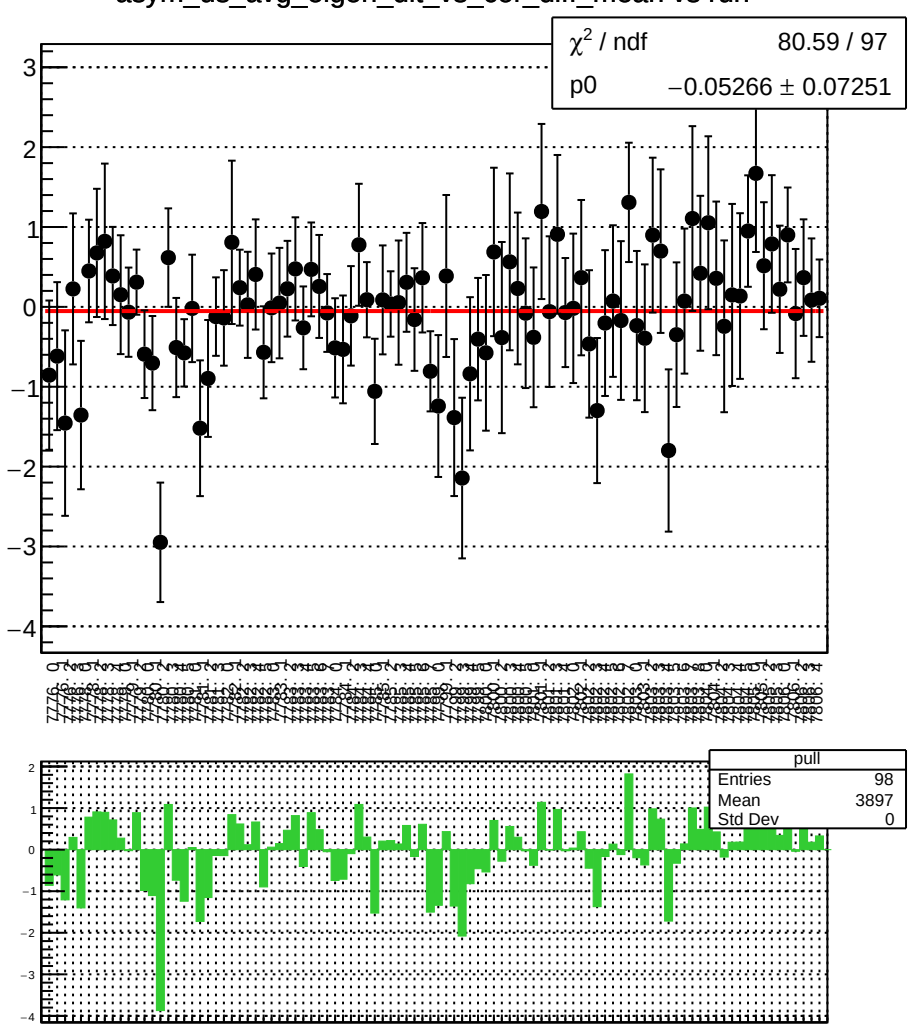

pull1D
Entries 98
Mean −0.0008203
Std Dev 0.9424

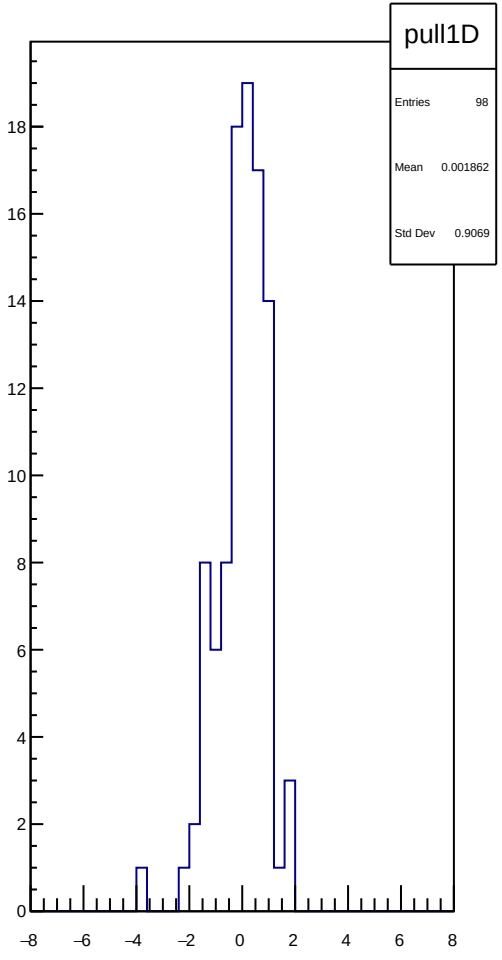

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.698e+04 / 97
p0 75.76 ± 0.05561
120
110
100
90
80
70
60
50
40

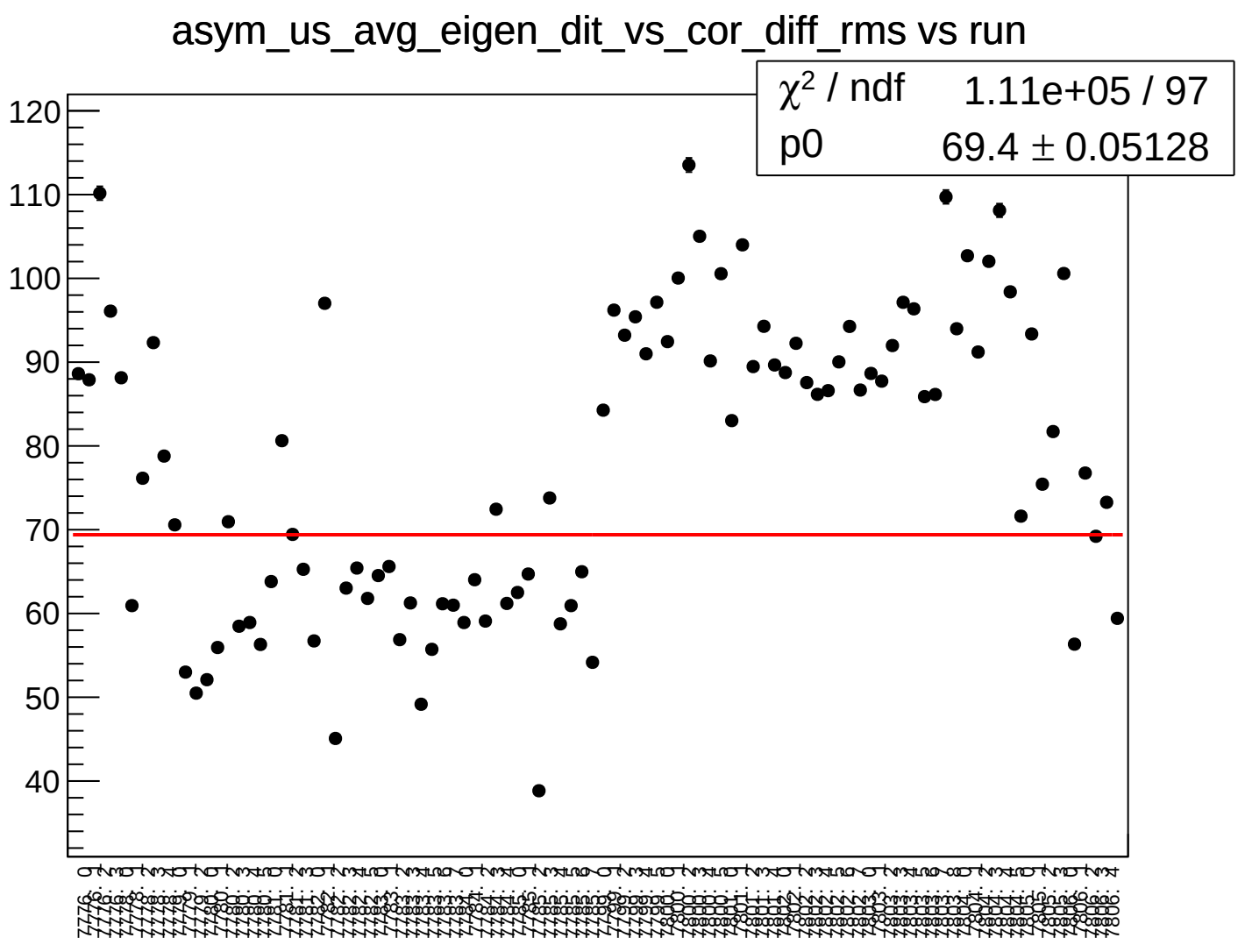

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.71 / 97
p0 −1.142e−06 ± 4.709e−06
×10⁻³
pull
Entries 98
Mean −309.3
Std Dev 0

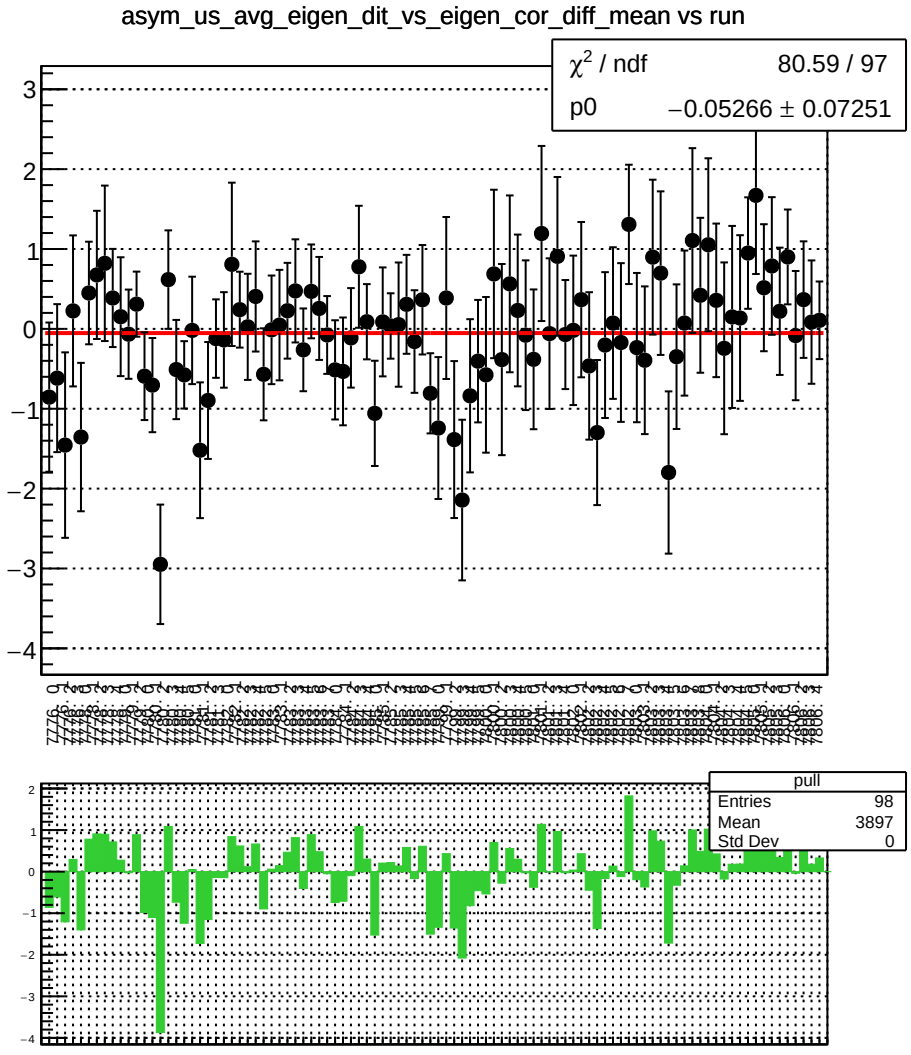

pull1D
Entries 98
Mean 0.00945
Std Dev 0.8554

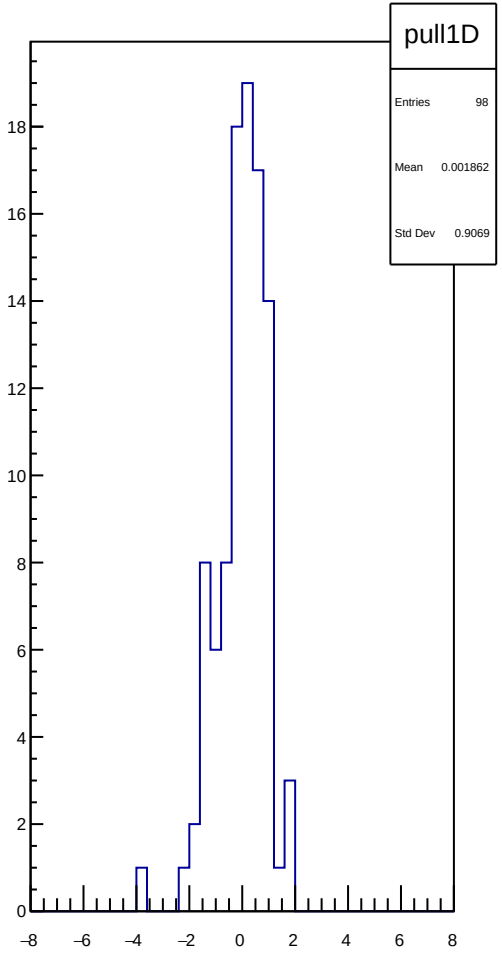

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.255e+05 / 97
p0 0.004102 ± 3.33e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

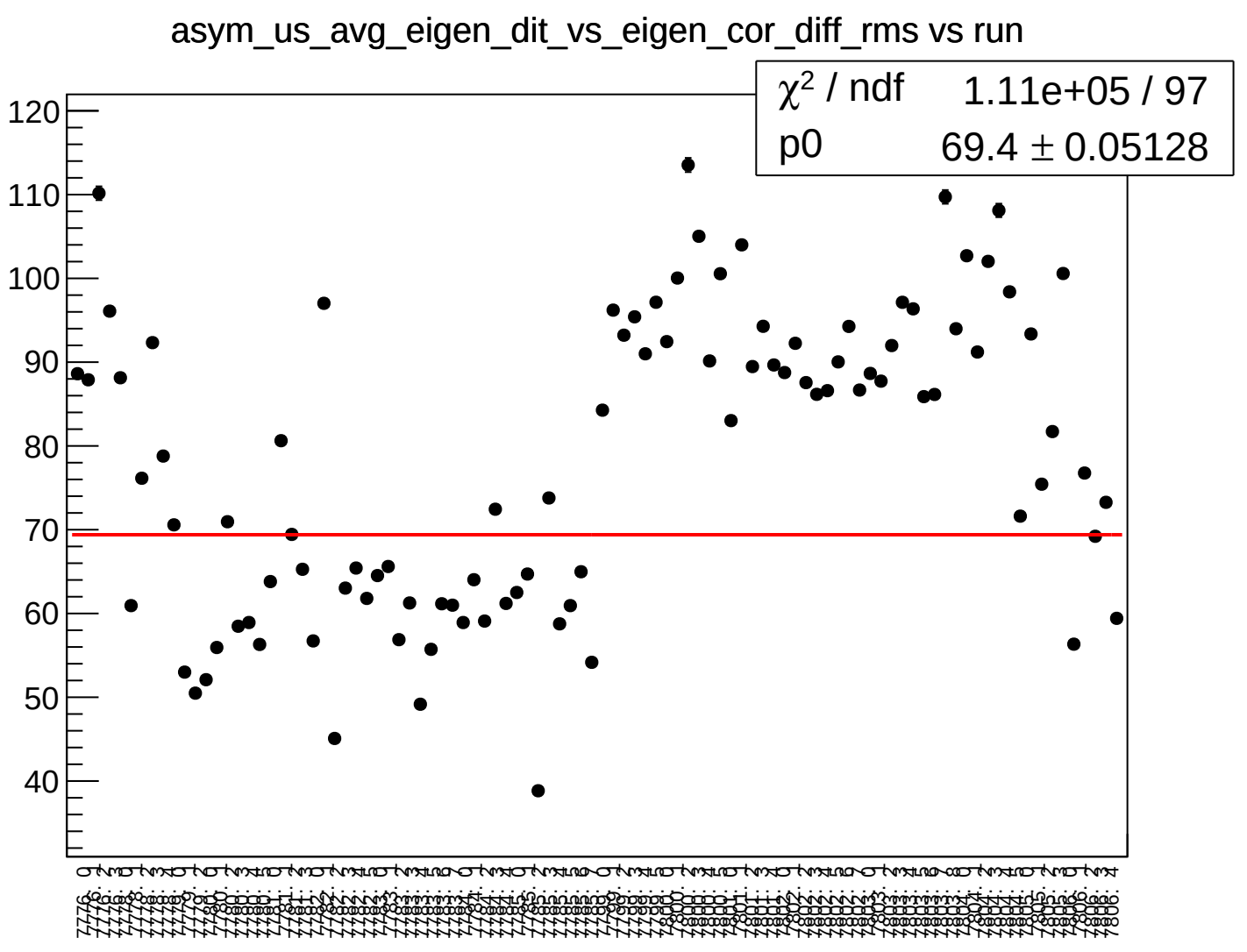

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.59 / 97
p0 −0.05266 ± 0.07251
pull
Entries 98
Mean 3897
Std Dev 0

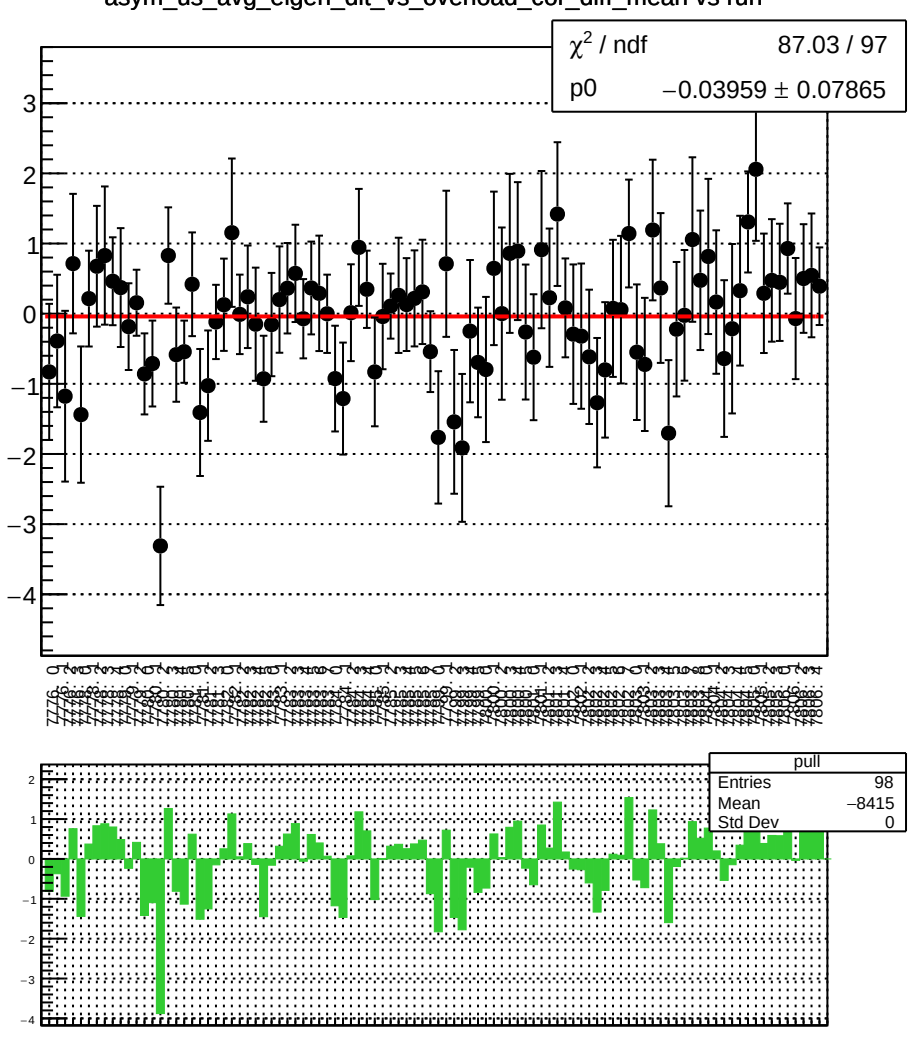

pull1D
Entries 98
Mean 0.001862
Std Dev 0.9069

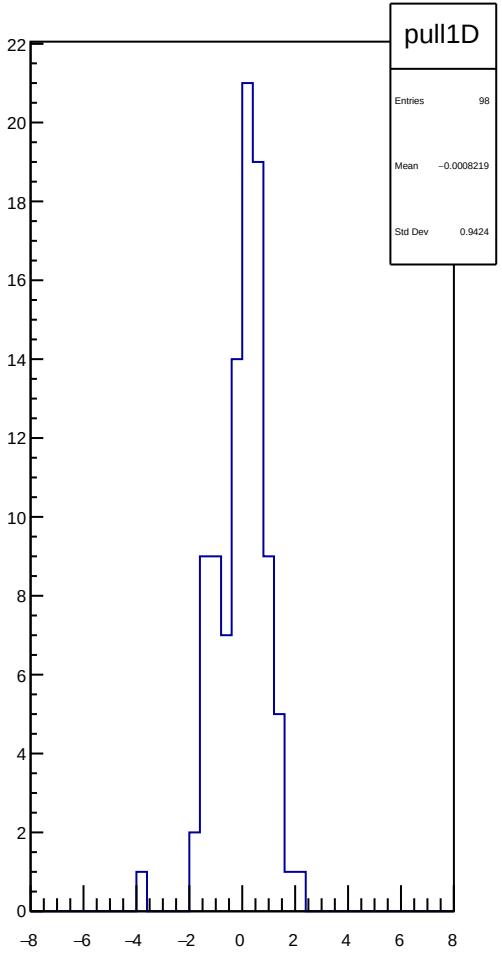

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.11e+05 / 97
p0 69.4 ± 0.05128
120
110
100
90
80
70
60
50
40

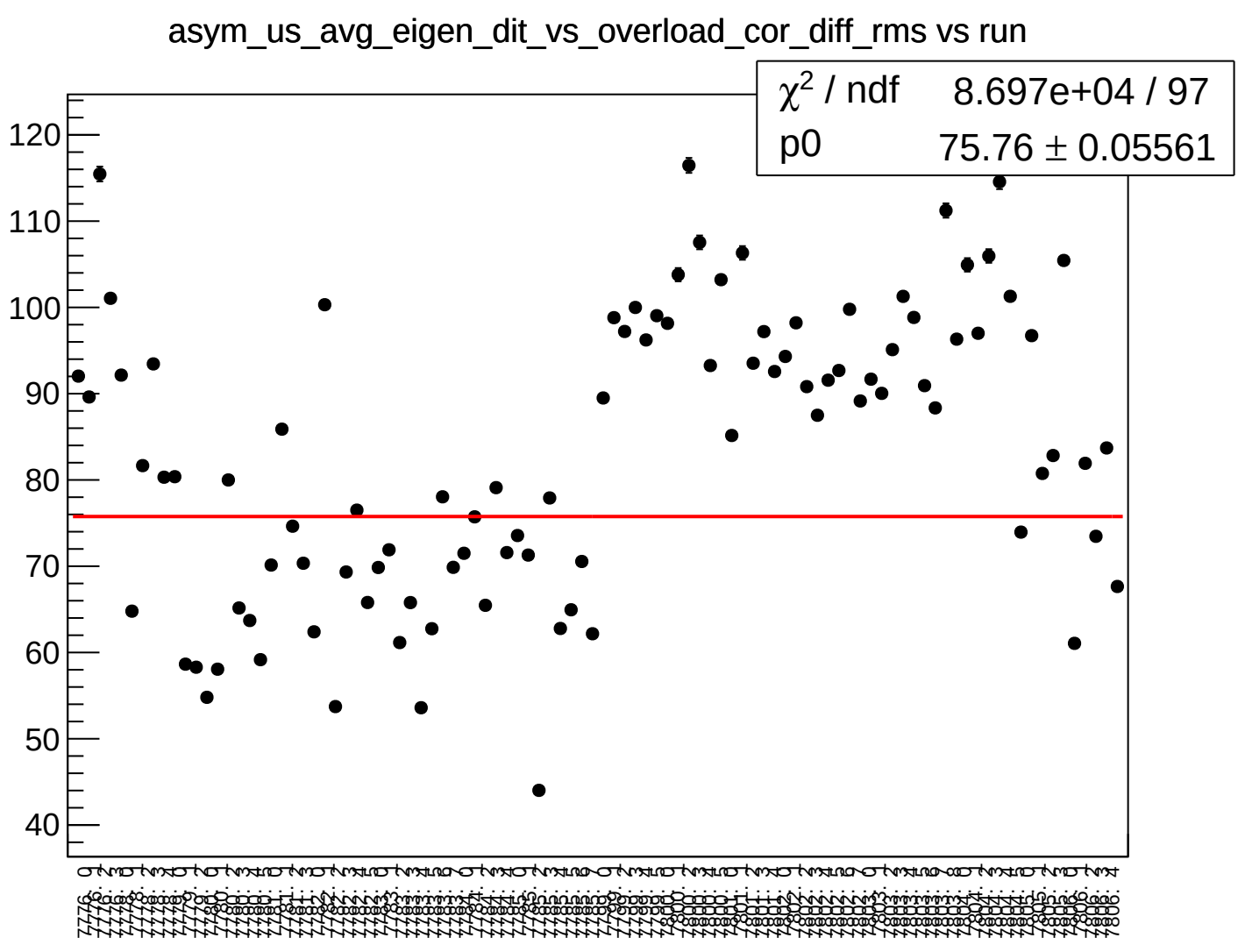

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.59 / 97
p0 −0.05266 ± 0.07251
pull
Entries 98
Mean 3897
Std Dev 0

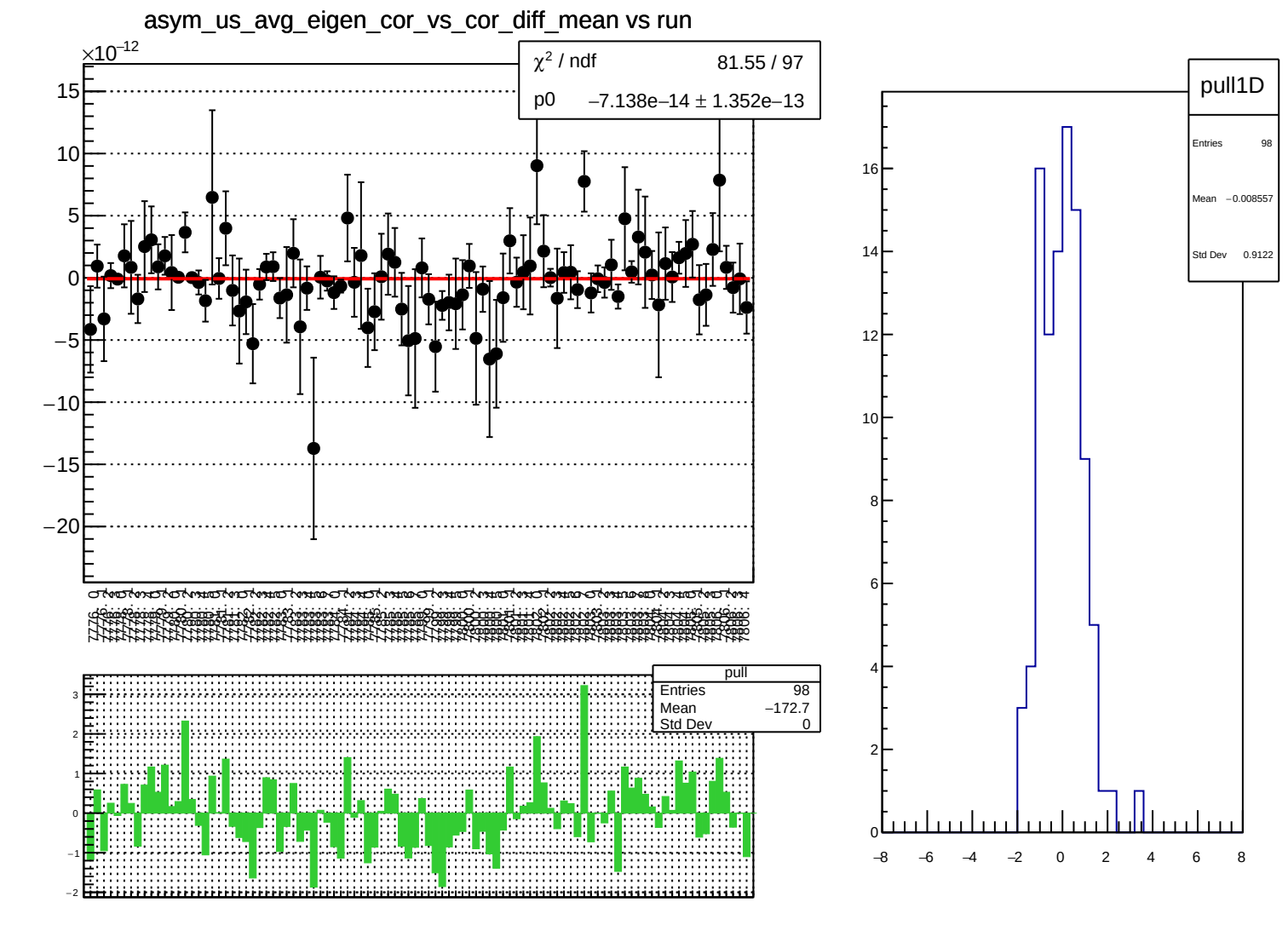

pull1D
Entries 98
Mean 0.001862
Std Dev 0.9069

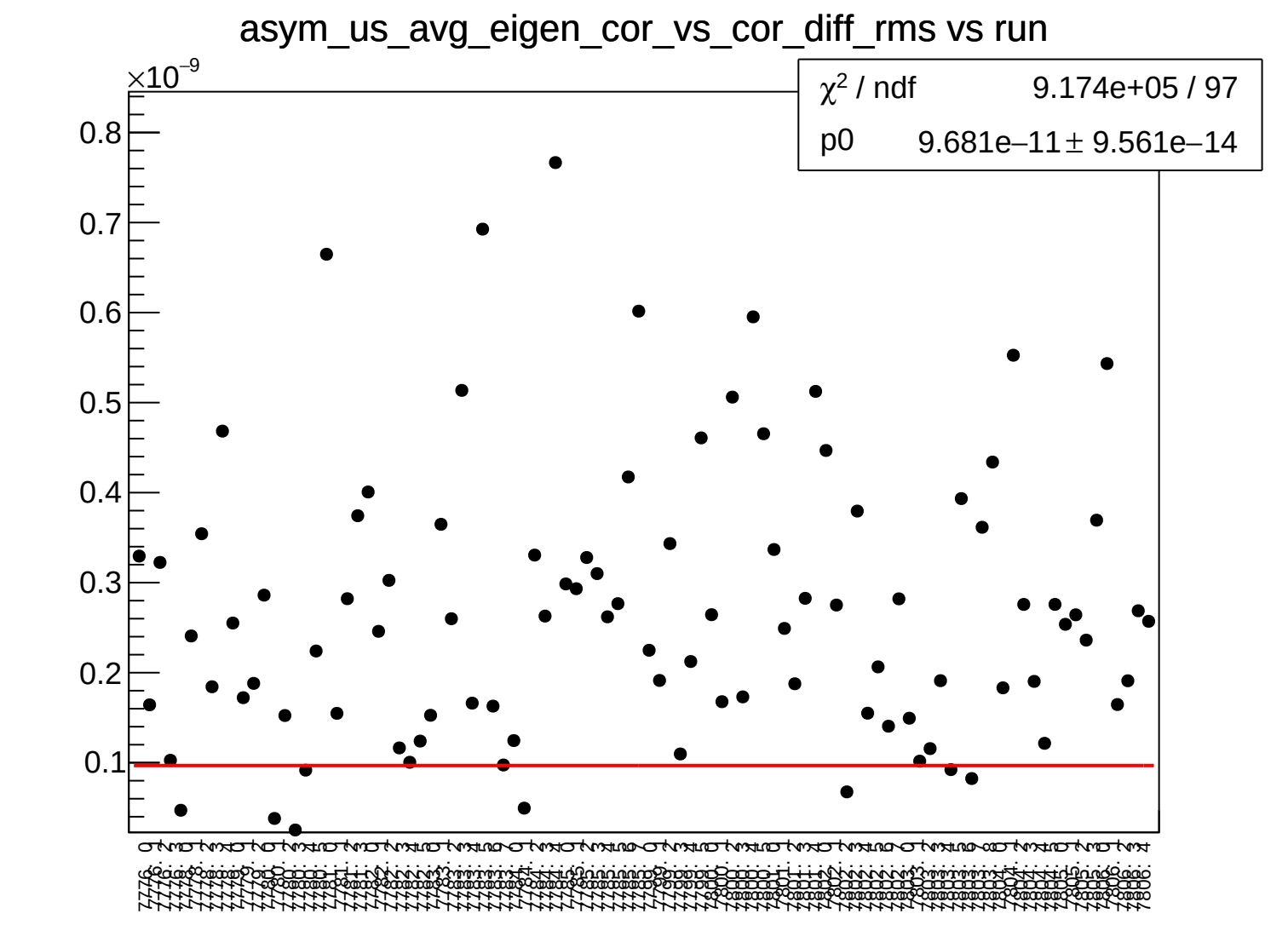

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.11e+05 / 97
p0 69.4 ± 0.05128
120
110
100
90
80
70
60
50
40

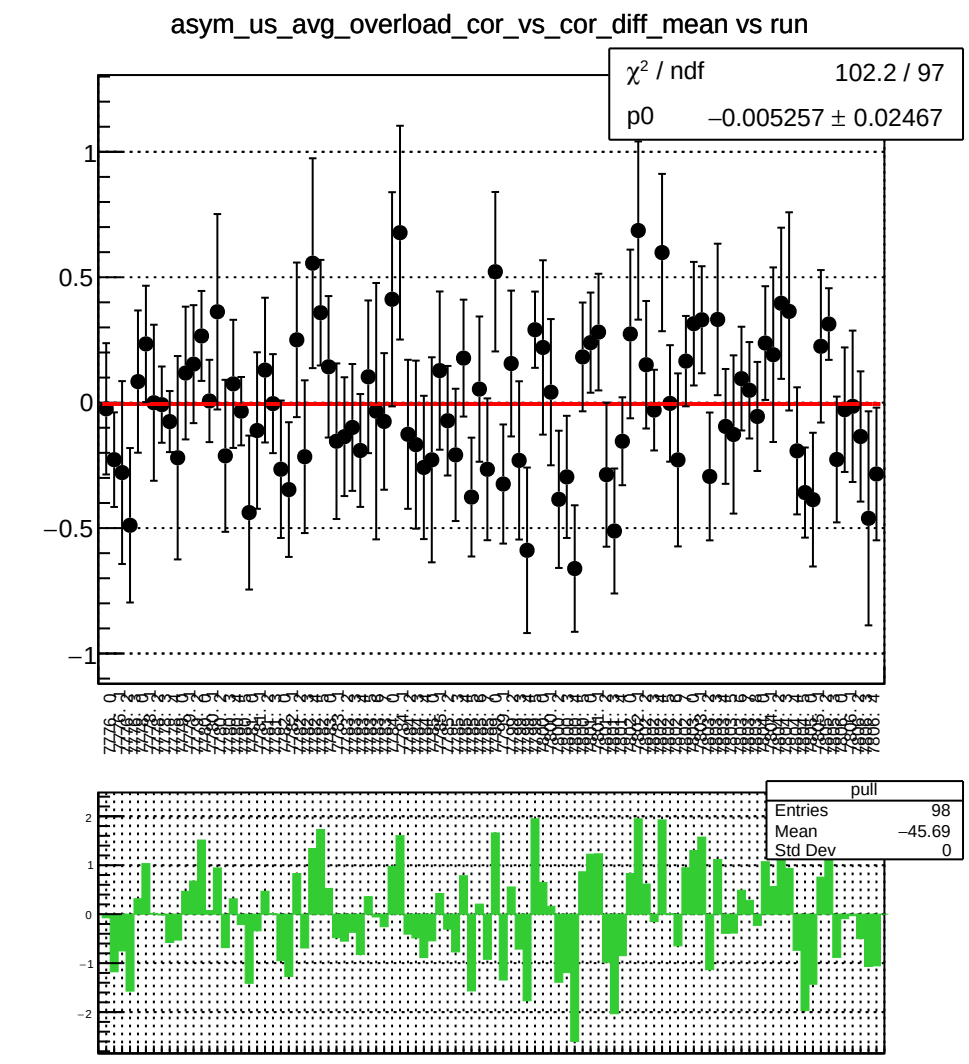

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.03 / 97
p0 −0.03959 ± 0.07865
pull
Entries 98
Mean −8415
Std Dev 0

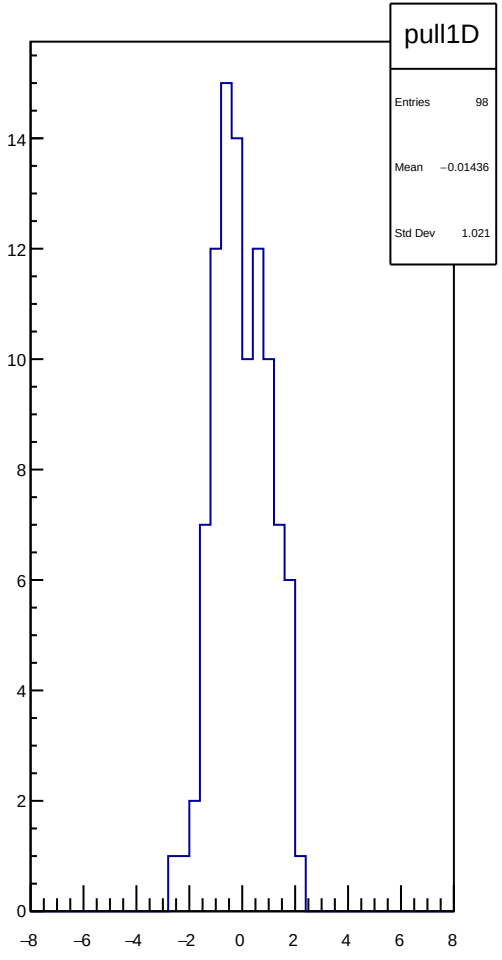

pull1D
Entries 98
Mean −0.0008219
Std Dev 0.9424

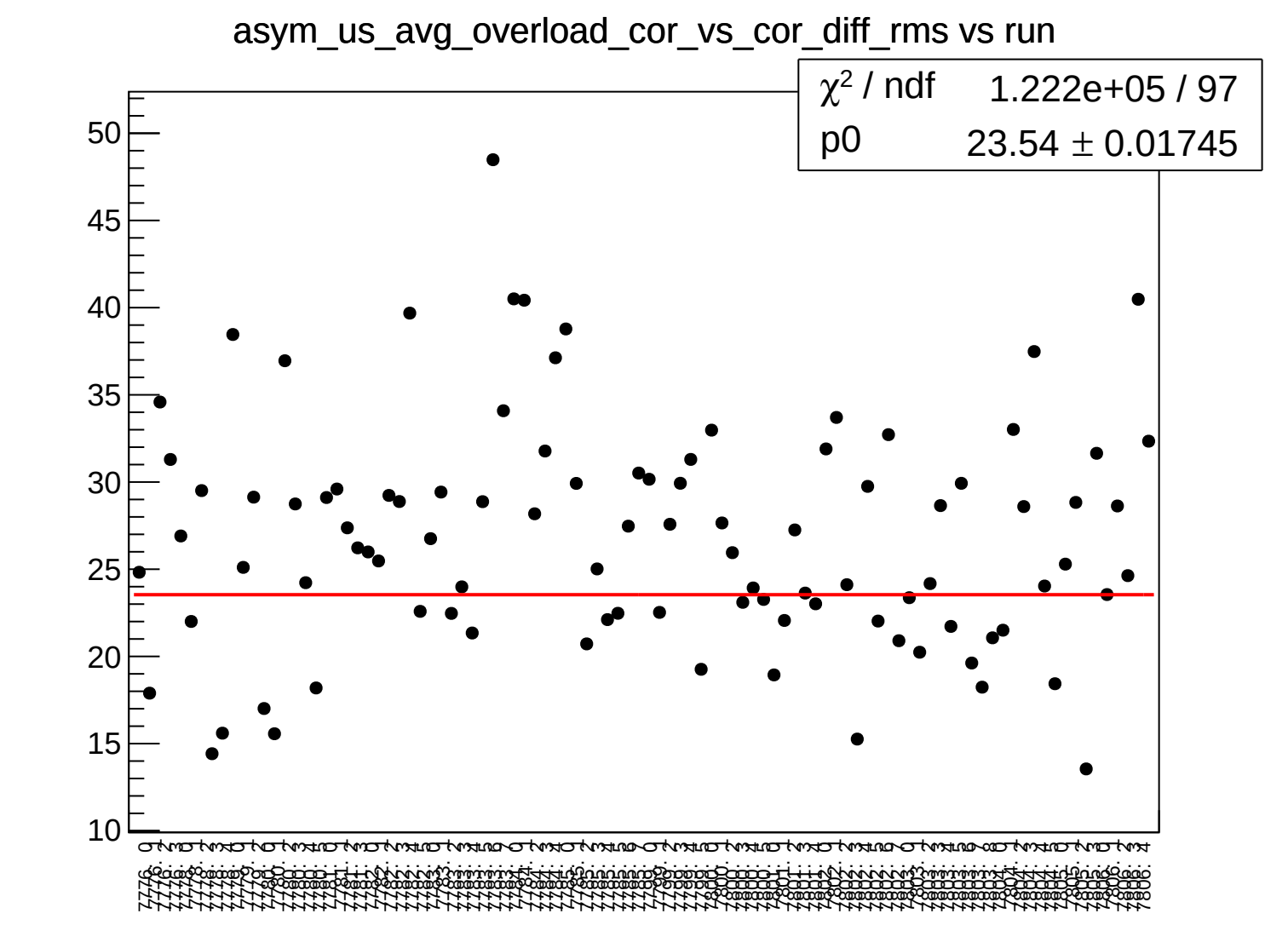

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.697e+04 / 97
p0 75.76 ± 0.05561
120
110
100
90
80
70
60
50
40

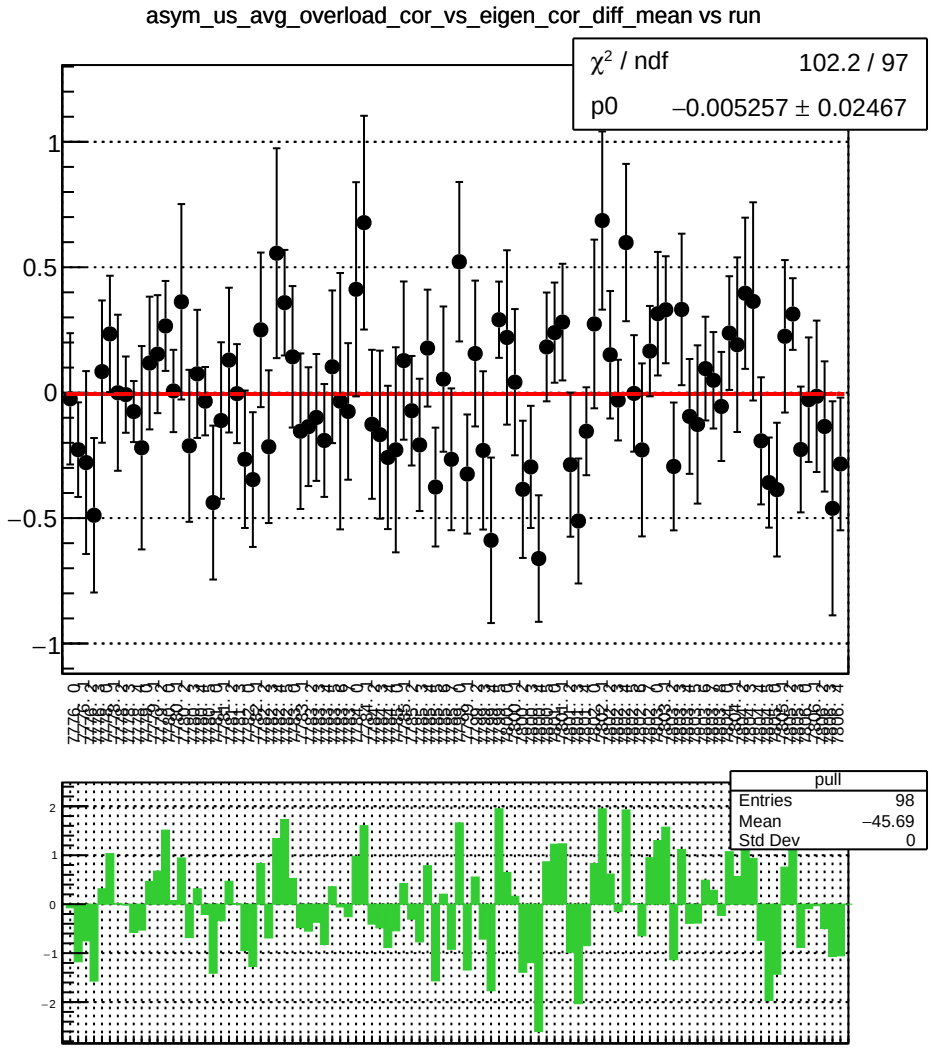

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.55 / 97
p0 −7.138e−14 ± 1.352e−13
pull
Entries 98
Mean −172.7
Std Dev 0
pull1D
Entries 98
Mean −0.008557
Std Dev 0.9122

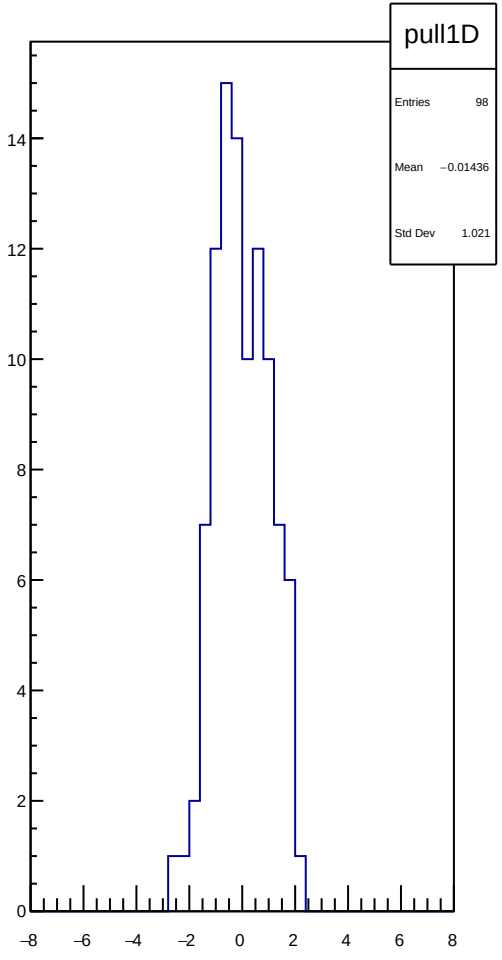

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.174e+05 / 97
p0 9.681e−11 ± 9.561e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

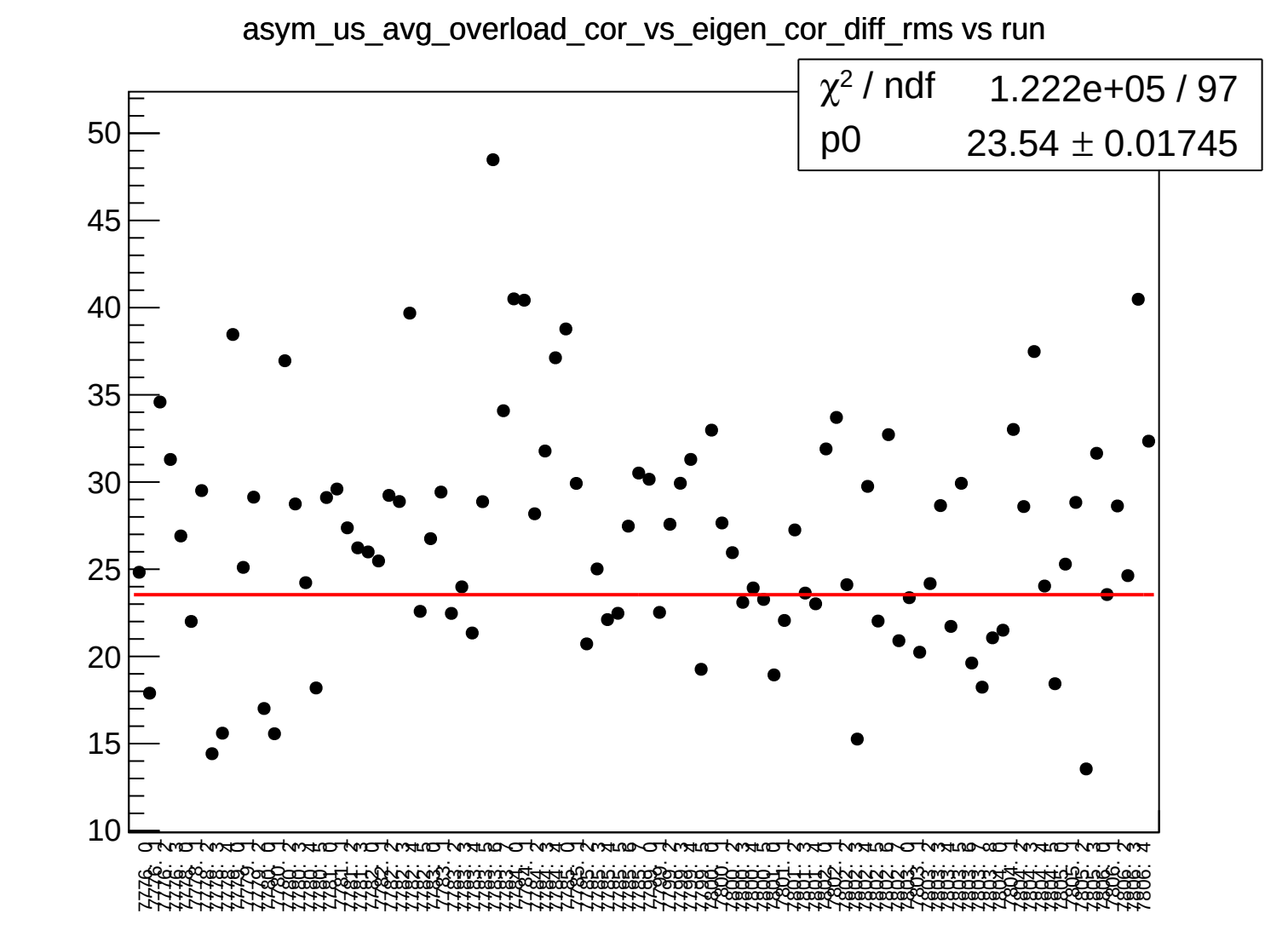

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 97
p0 −0.005257 ± 0.02467
pull
Entries 98
Mean −45.69
Std Dev 0

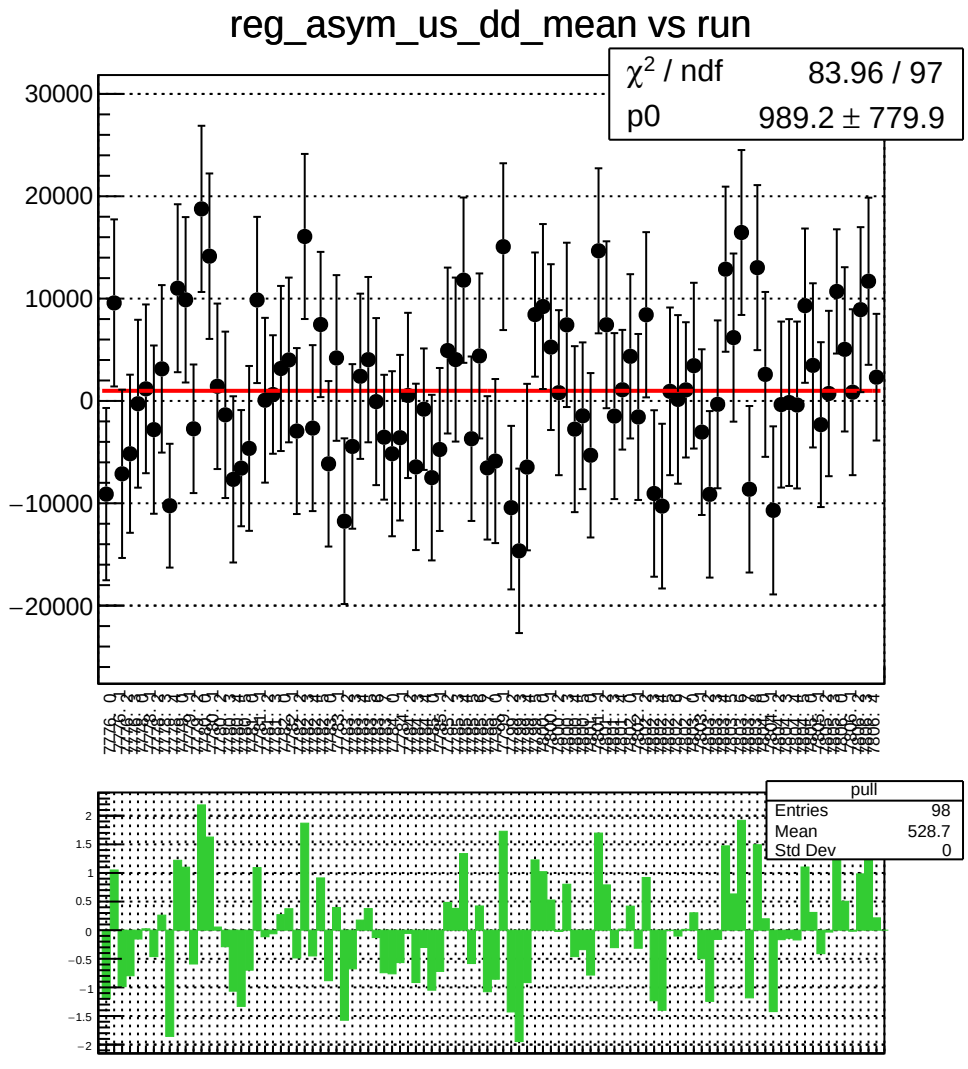

pull1D
Entries 98
Mean −0.01436
Std Dev 1.021

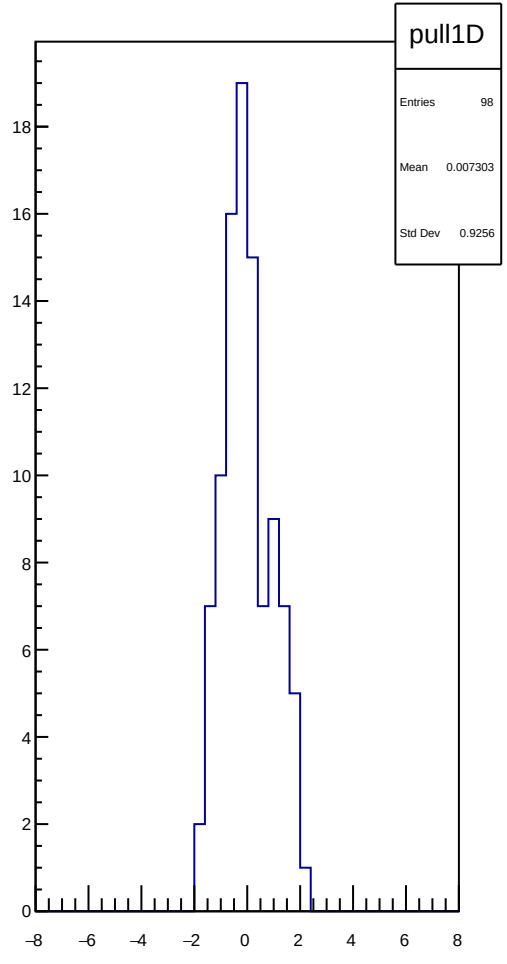

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.222e+05 / 97
p0 23.54 ± 0.01745
50
45
40
35
30
25
20
15
10

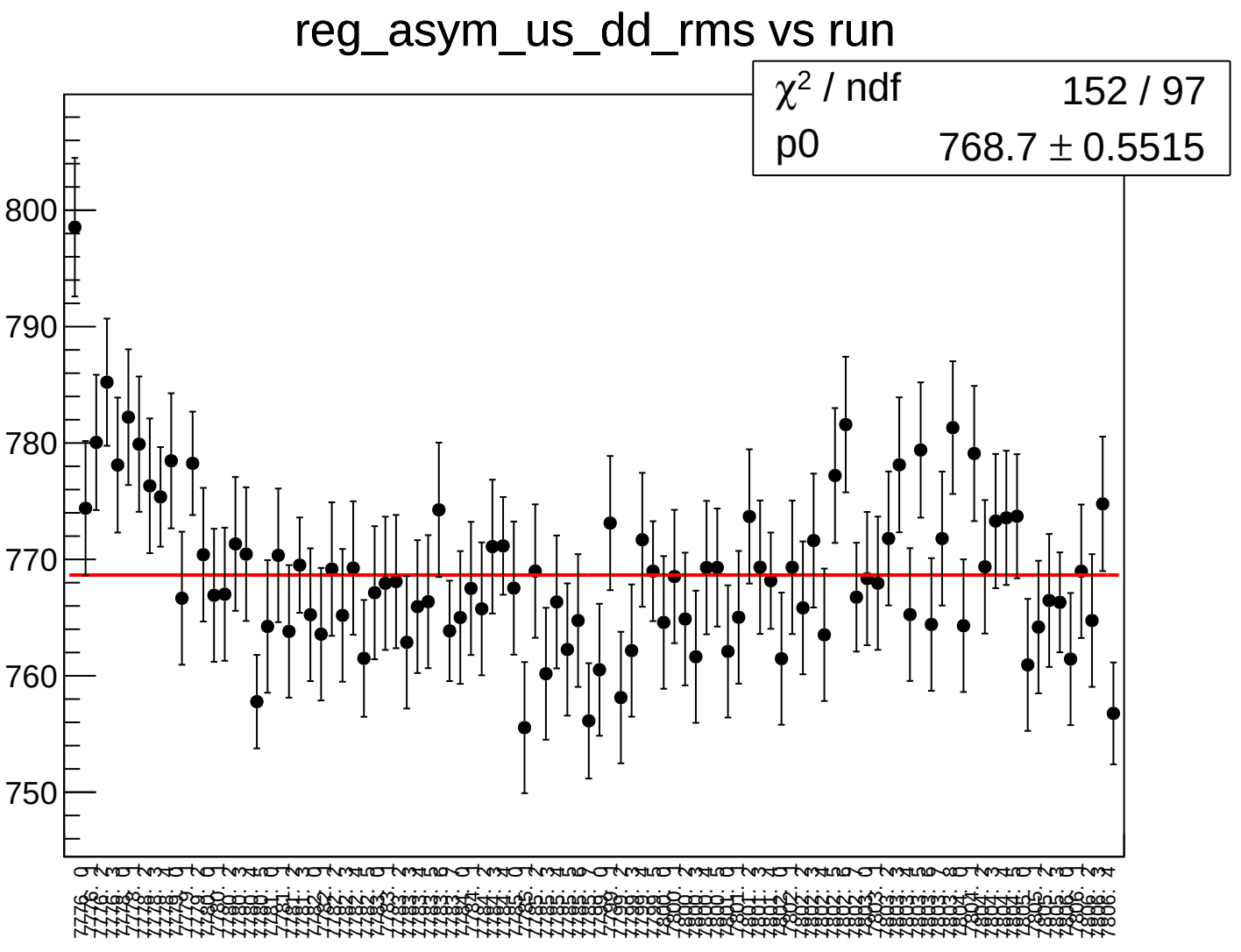

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 97
p0 −0.005257 ± 0.02467
pull
Entries 98
Mean −45.69
Std Dev 0

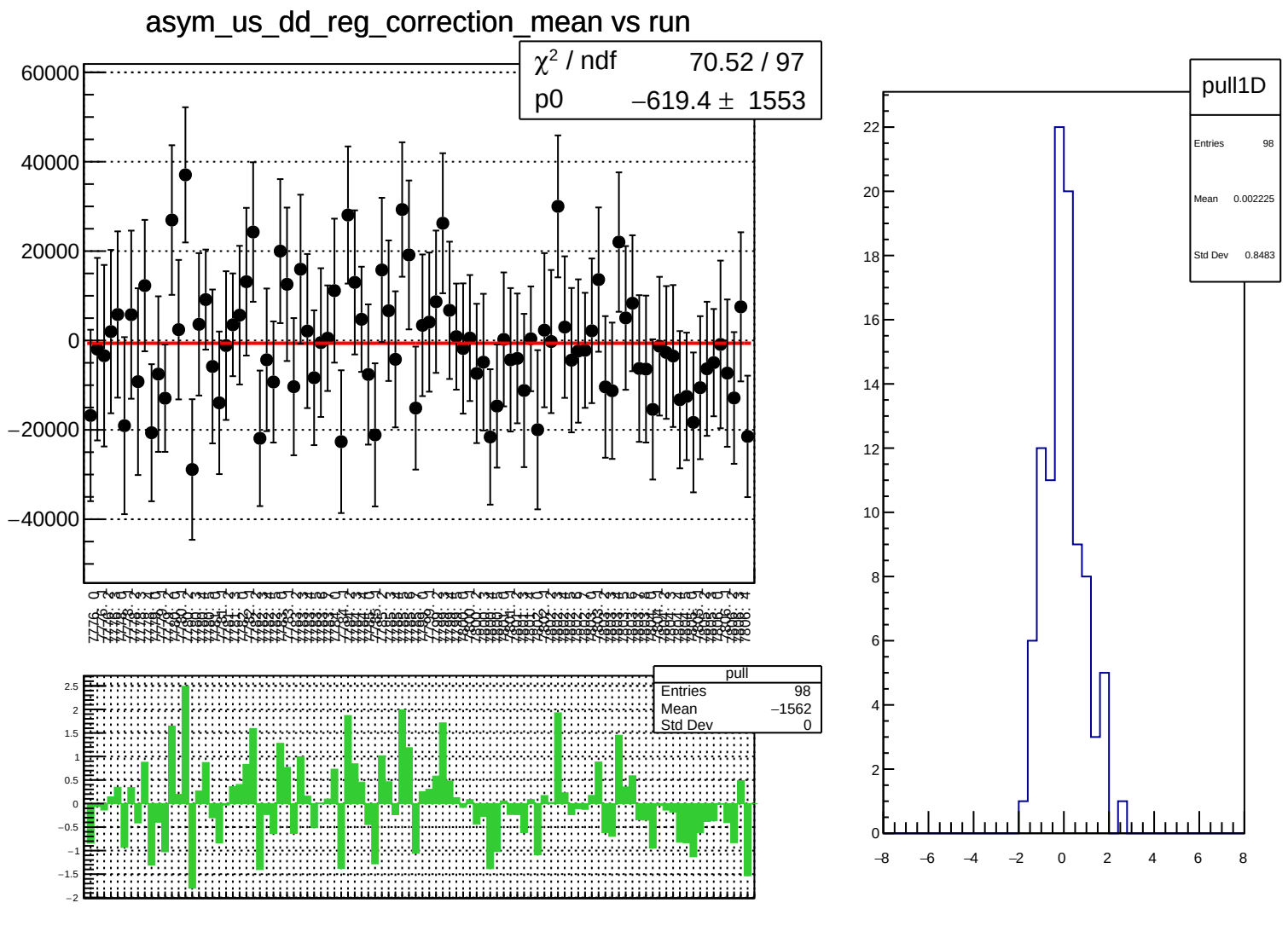

pull1D
Entries 98
Mean −0.01436
Std Dev 1.021

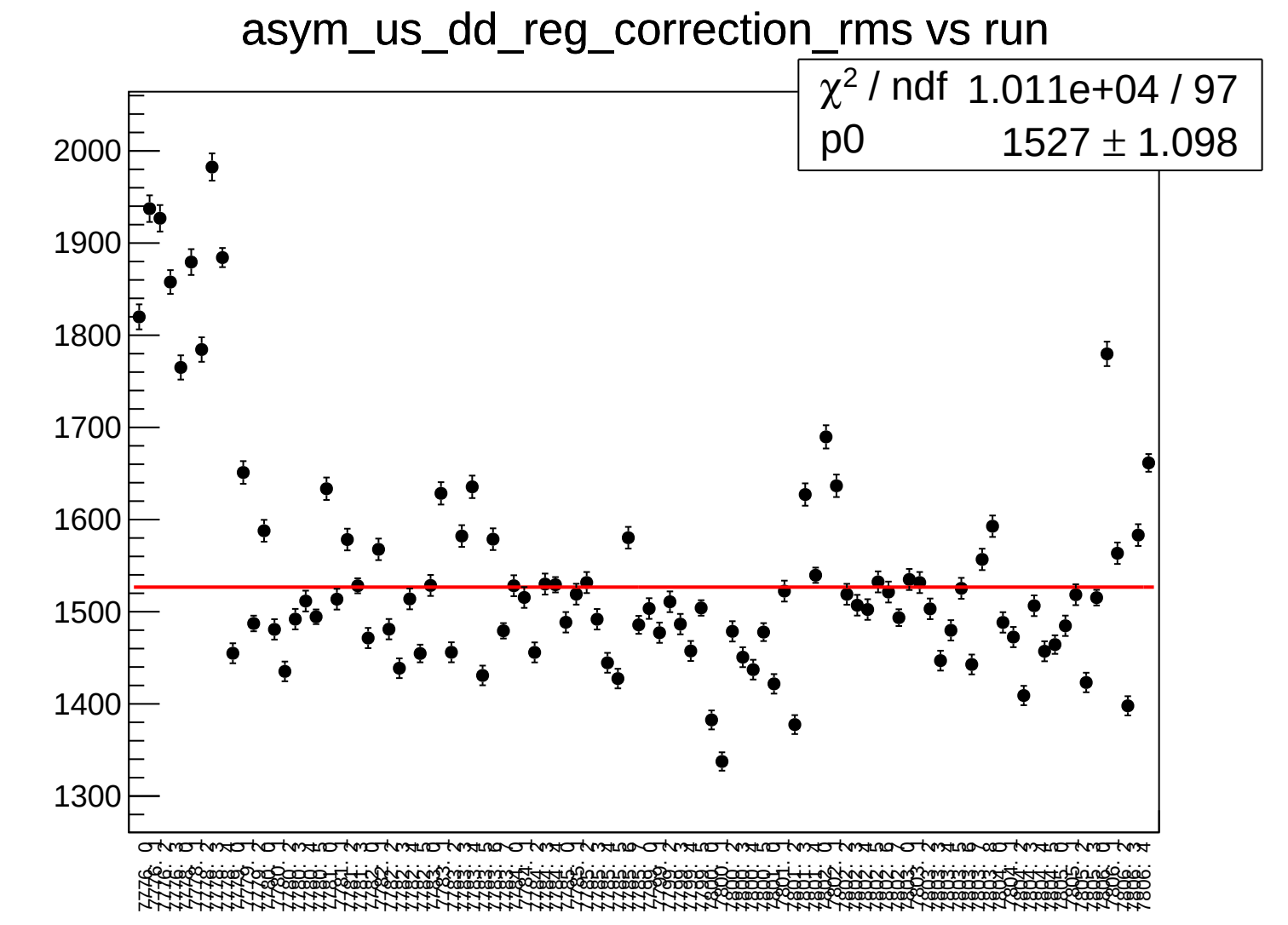

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.222e+05 / 97
p0 23.54 ± 0.01745
50
45
40
35
30
25
20
15
10

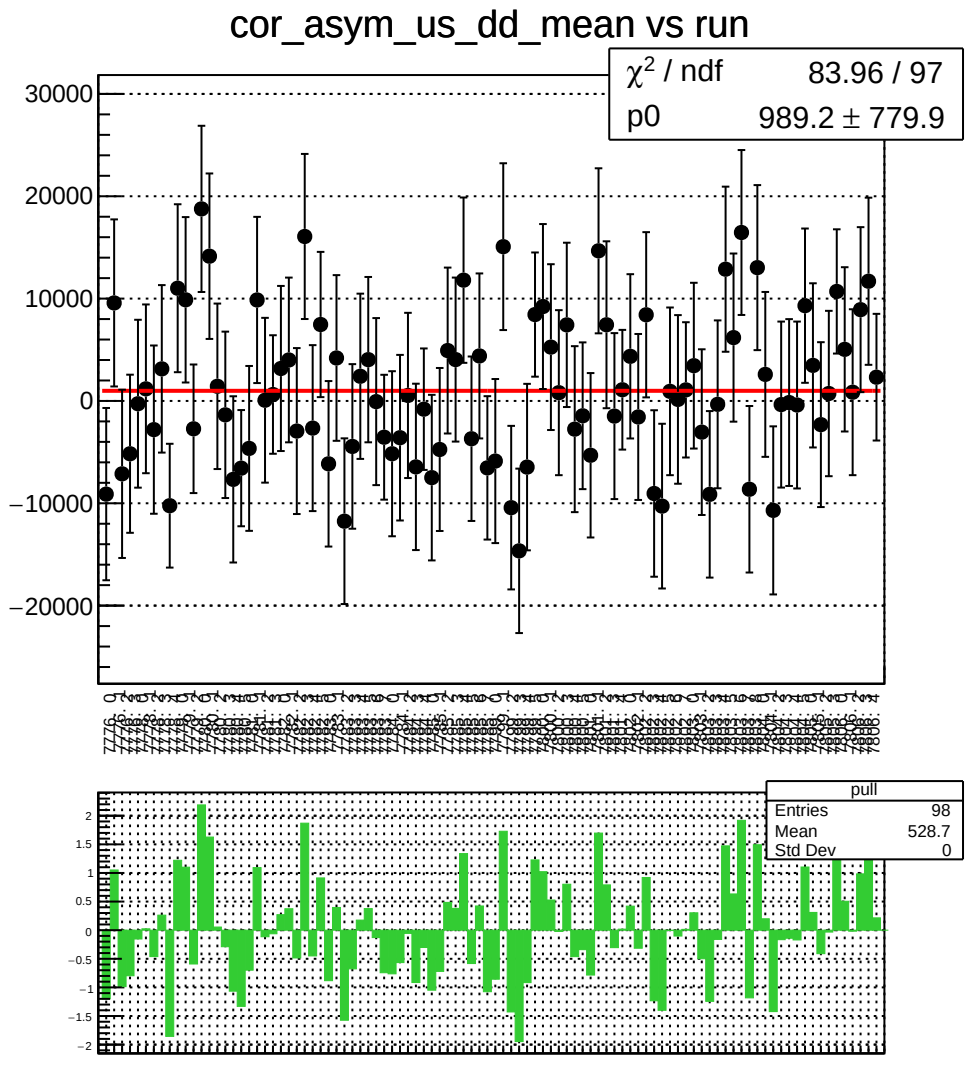

reg_asym_us_dd_mean vs run
χ^2 / ndf 83.96 / 97
p0 989.2 ± 779.9
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 528.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

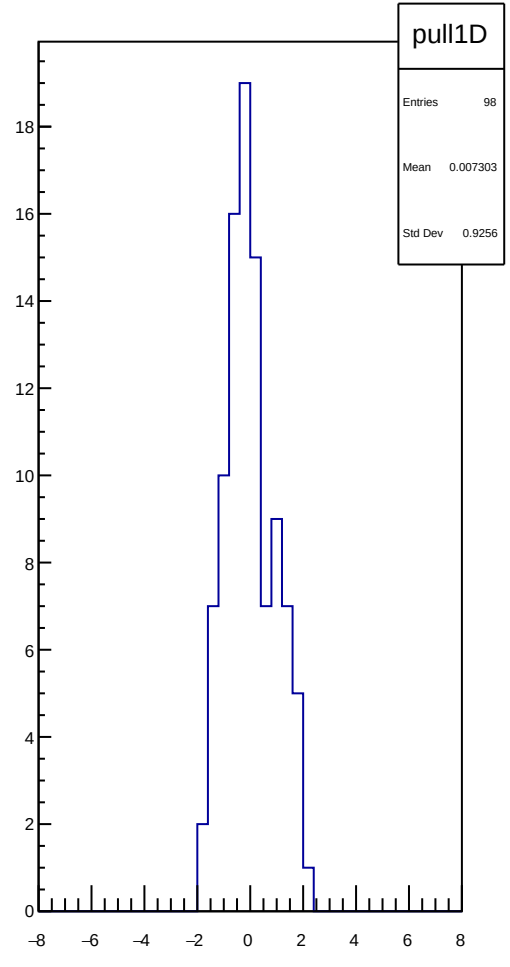

pull1D
Entries 98
Mean 0.007303
Std Dev 0.9256
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

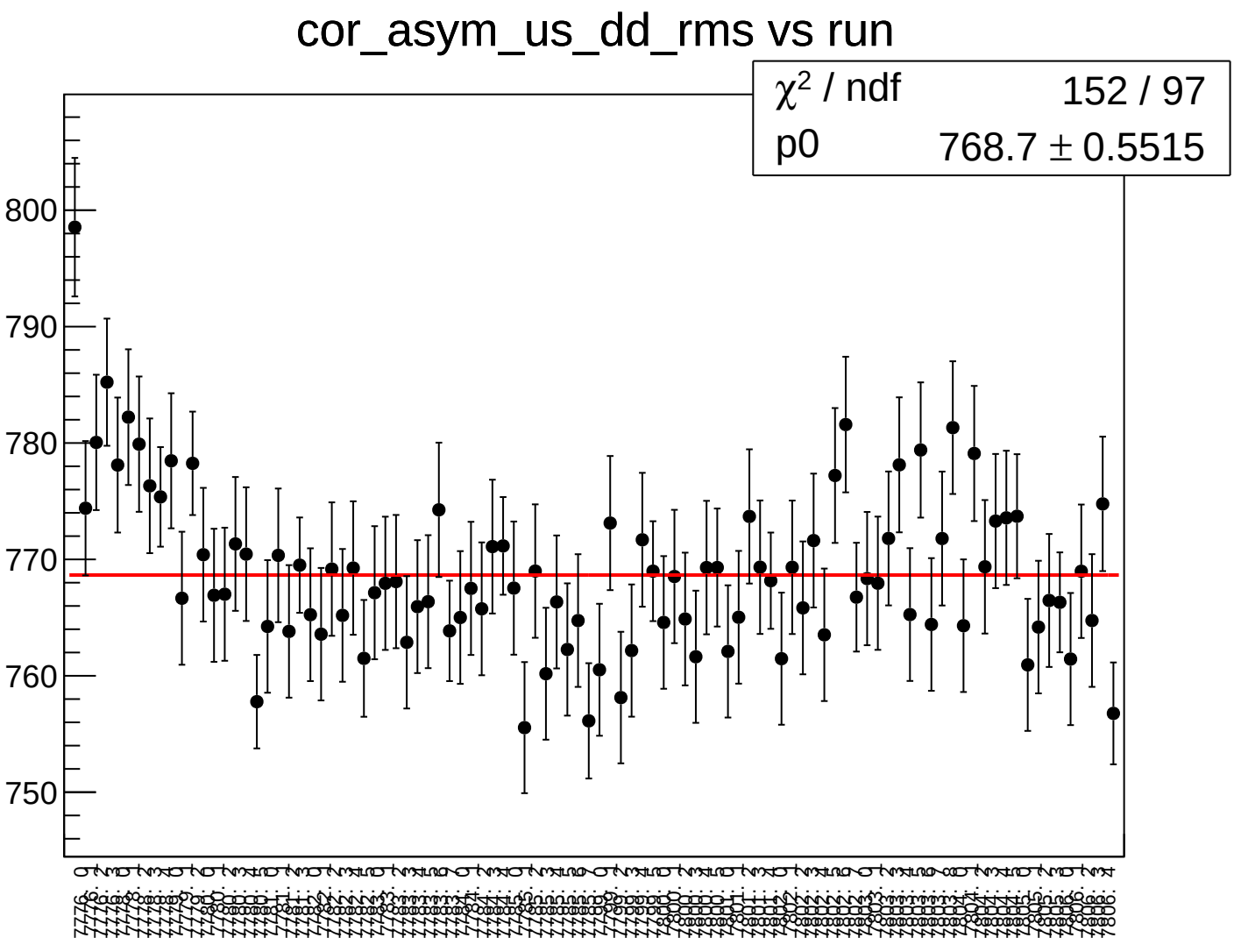

reg_asym_us_dd_rms vs run
χ² / ndf 152 / 97
p0 768.7 ± 0.5515
800
790
780
770
760
750

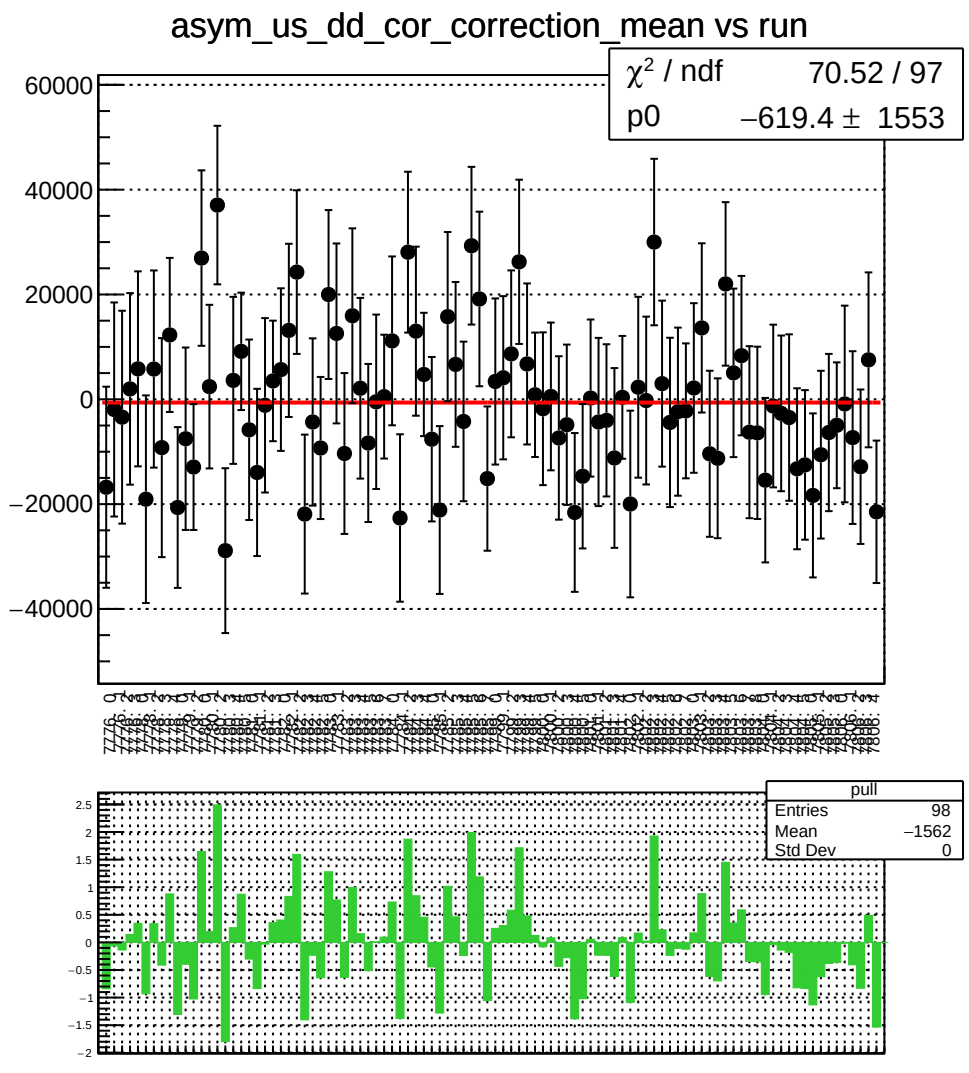

asym_us_dd_reg_correction_mean vs run
χ² / ndf 70.52 / 97
p0 −619.4 ± 1553
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −1562
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.002225
Std Dev 0.8483
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

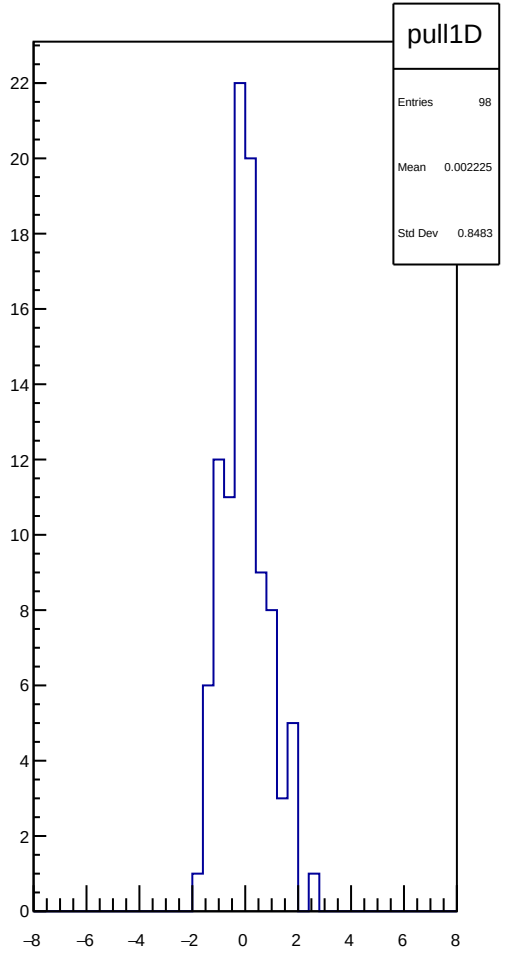

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.011e+04 / 97
p0 1527 ± 1.098
2000
1900
1800
1700
1600
1500
1400
1300

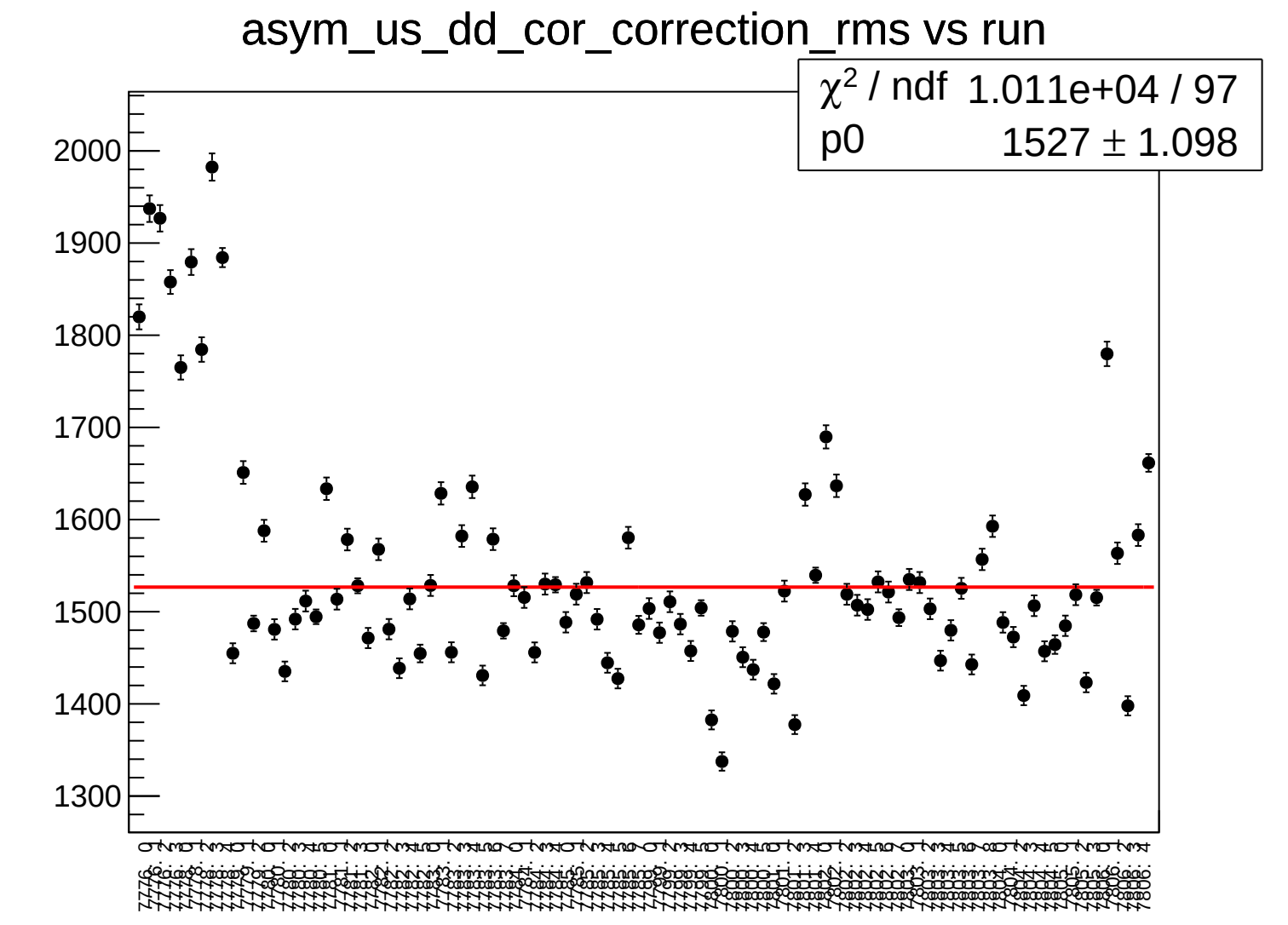

cor_asym_us_dd_mean vs run
χ^2 / ndf 83.96 / 97
p0 989.2 ± 779.9
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 528.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

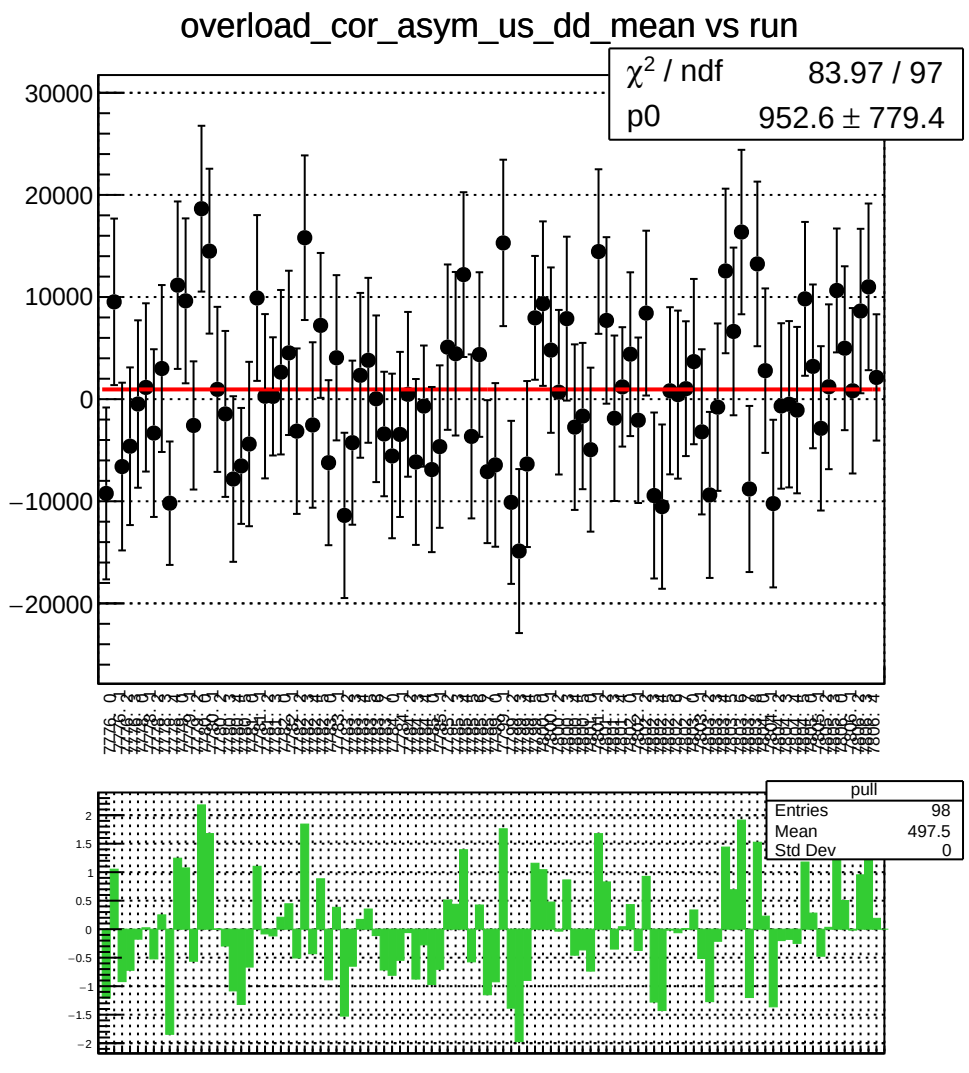

pull1D
Entries 98
Mean 0.007303
Std Dev 0.9256
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

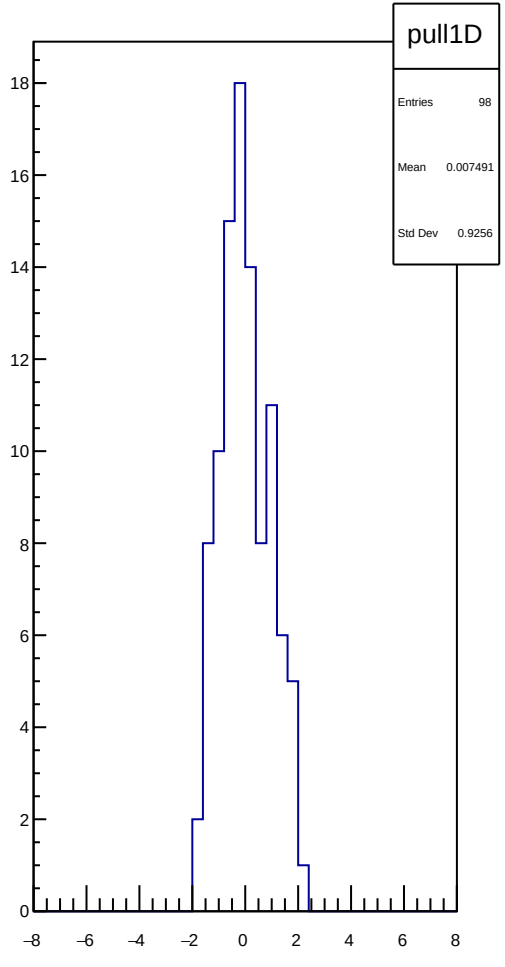

cor_asym_us_dd_rms vs run
χ² / ndf 152 / 97
p0 768.7 ± 0.5515
800
790
780
770
760
750

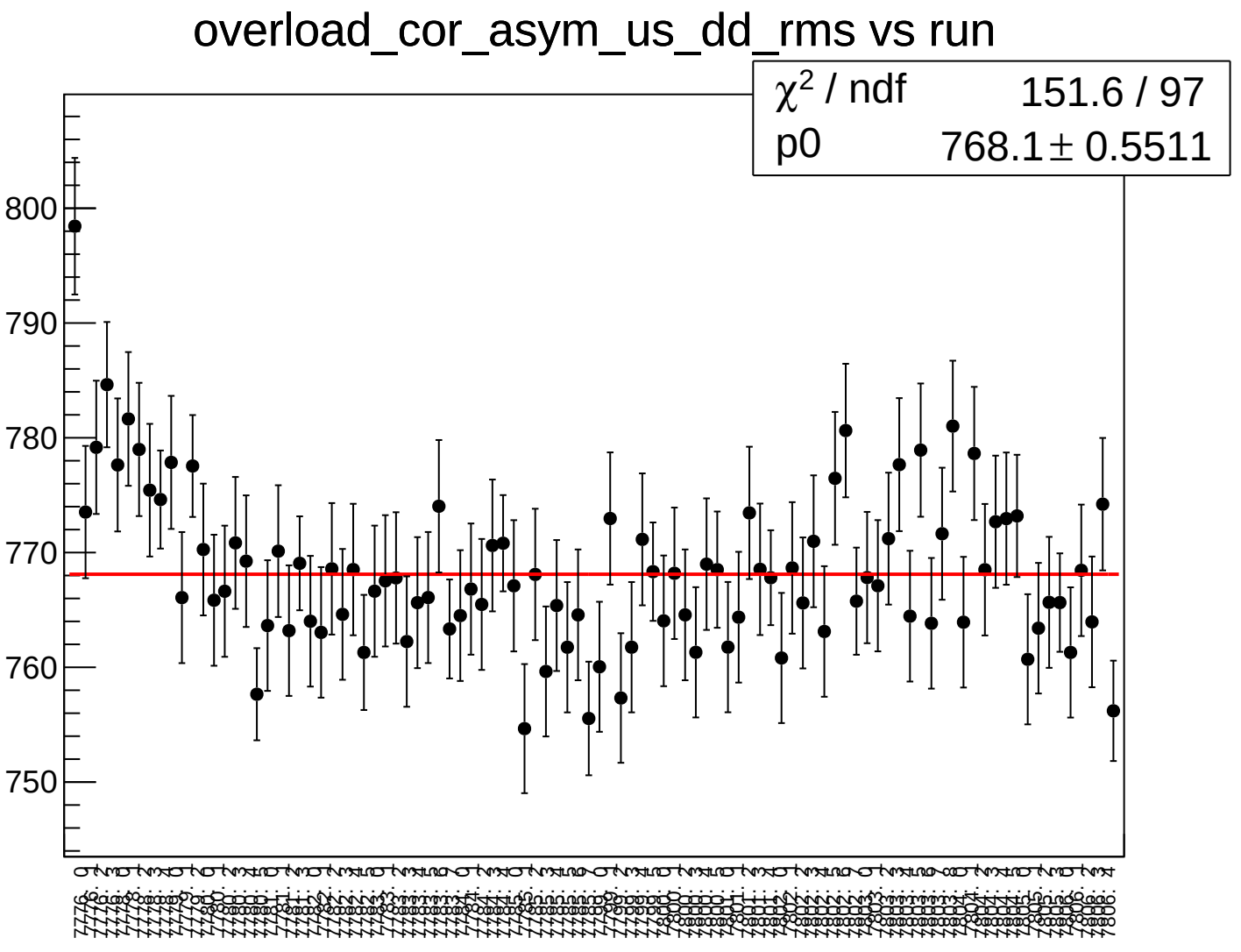

asym_us_dd_cor_correction_mean vs run
χ² / ndf 70.52 / 97
p0 −619.4 ± 1553
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −1562
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

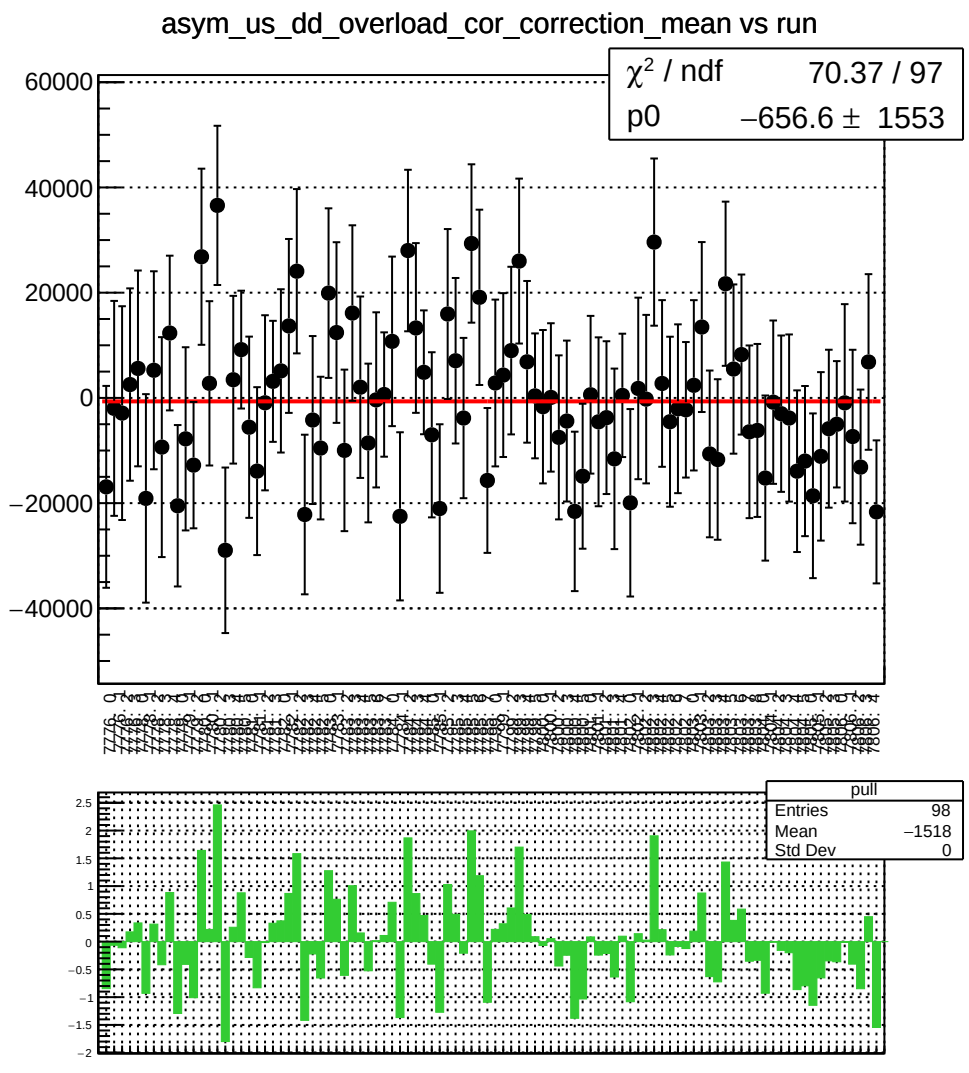

pull1D
Entries 98
Mean 0.002225
Std Dev 0.8483
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

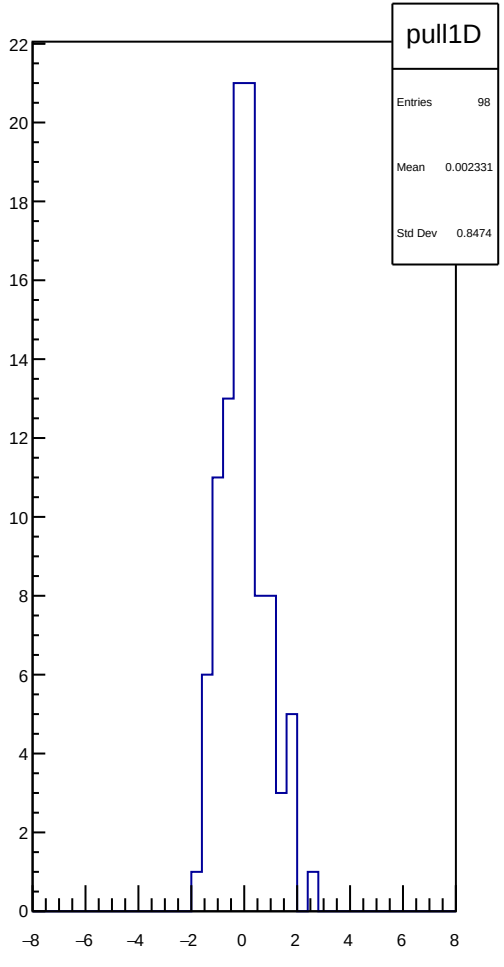

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.011e+04 / 97
p0 1527 ± 1.098
2000
1900
1800
1700
1600
1500
1400
1300

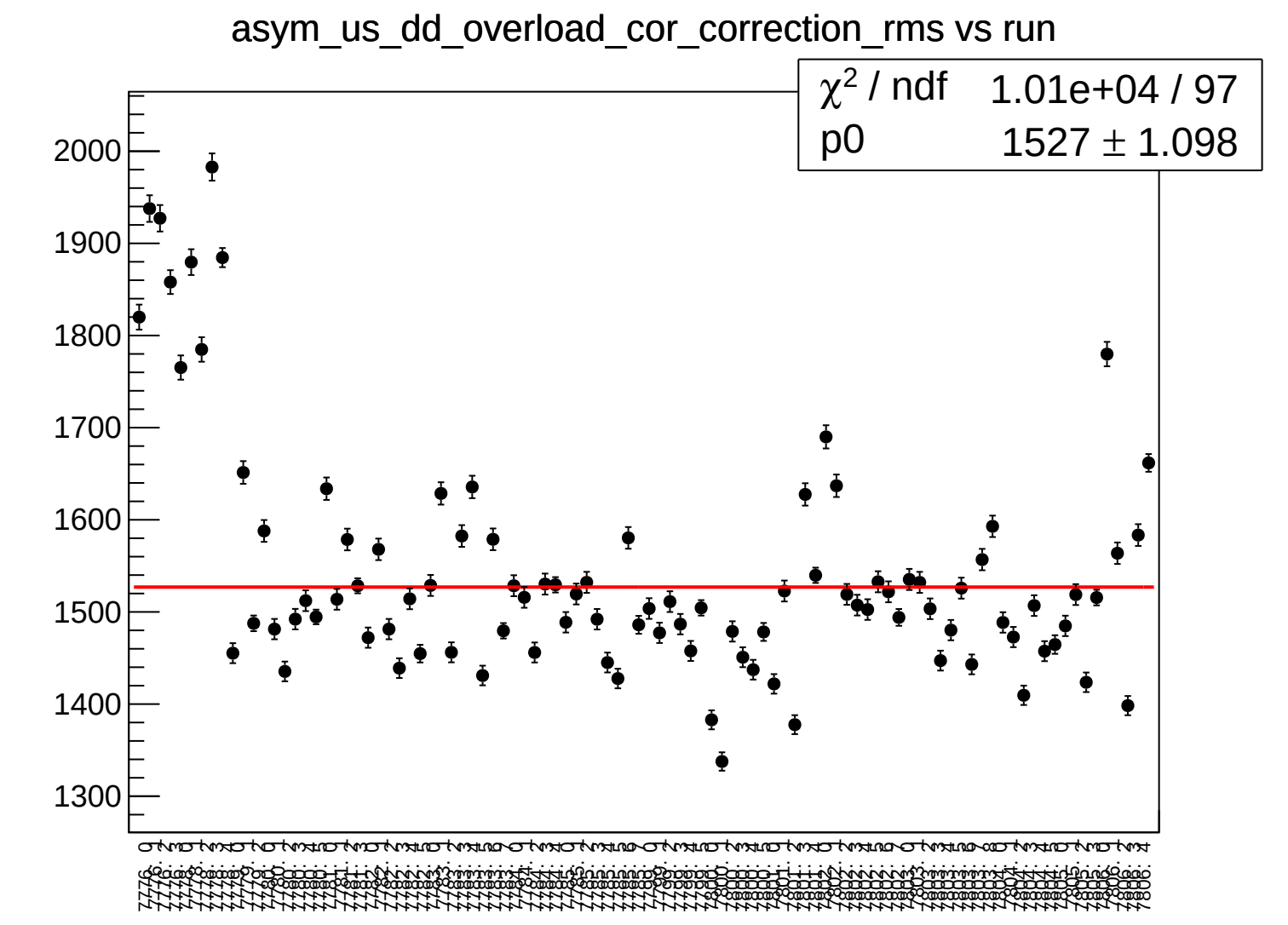

overload_cor_asym_us_dd_mean vs run
χ² / ndf 83.97 / 97
p0 952.6 ± 779.4
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 497.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

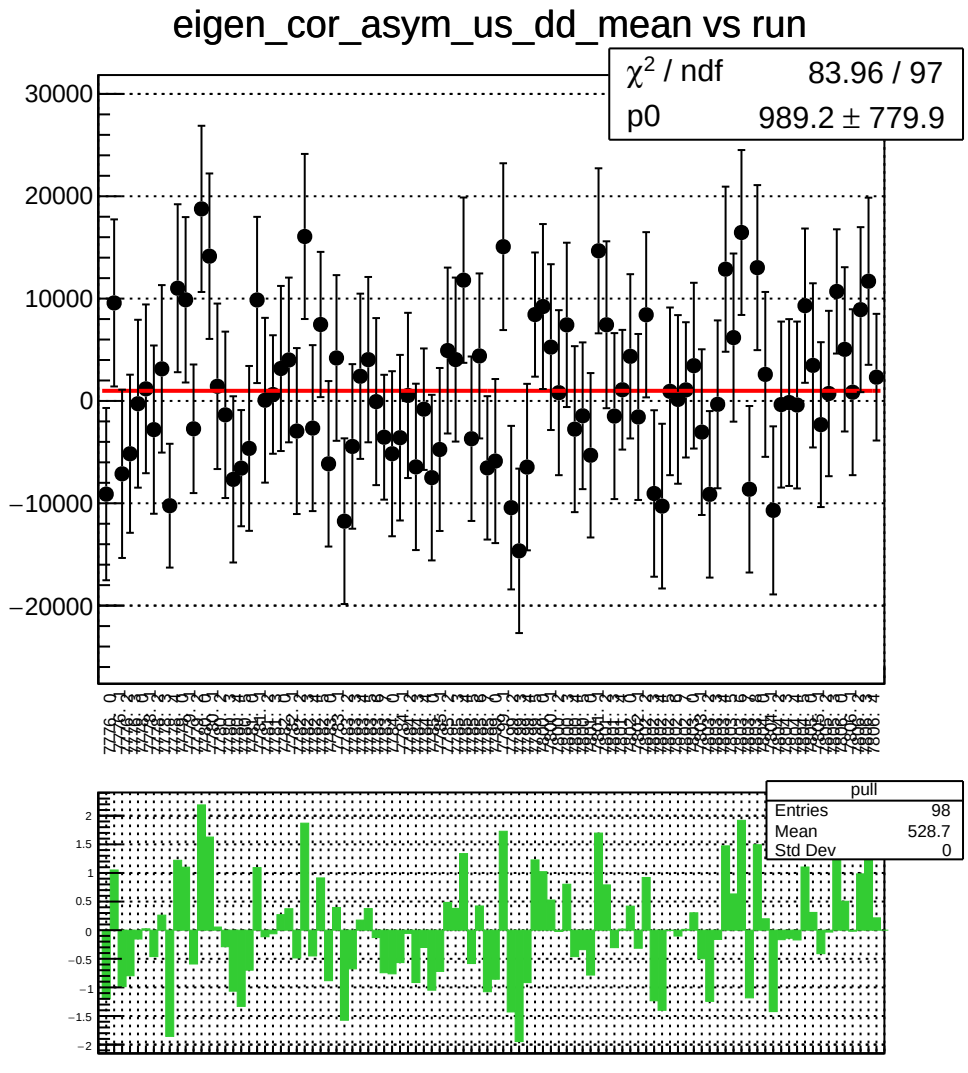

pull1D
Entries 98
Mean 0.007491
Std Dev 0.9256
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

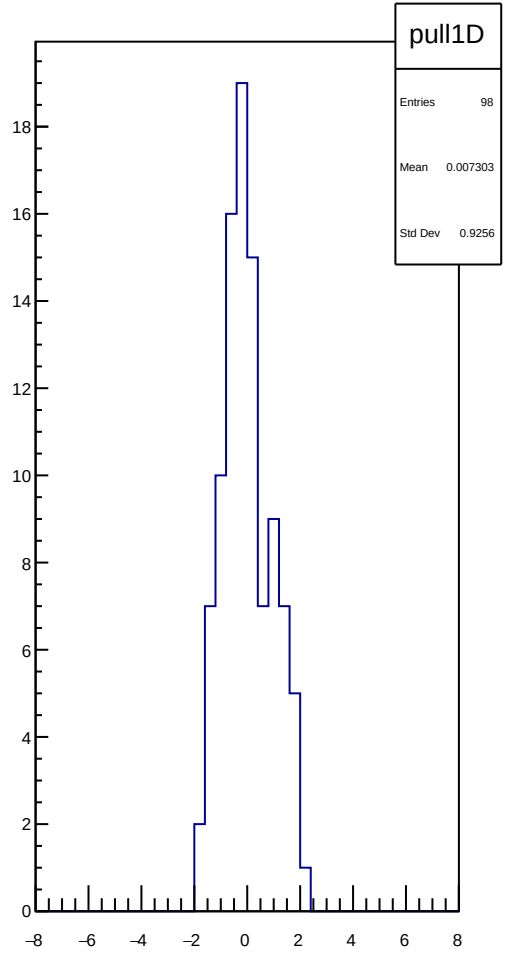

overload_cor_asym_us_dd_rms vs run
χ² / ndf 151.6 / 97
p0 768.1 ± 0.5511
800
790
780
770
760
750

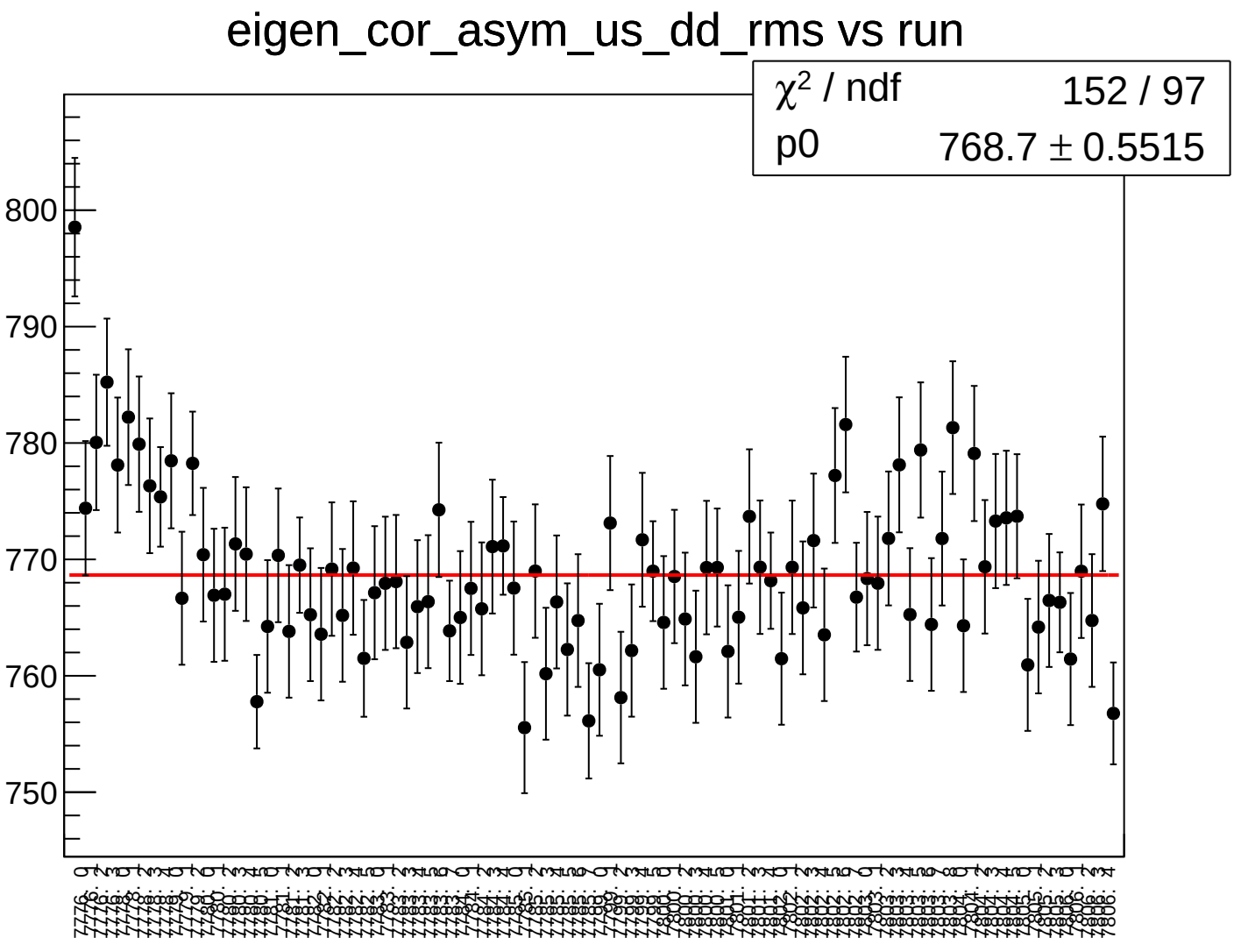

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 70.37 / 97
p0 −656.6 ± 1553
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −1518
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

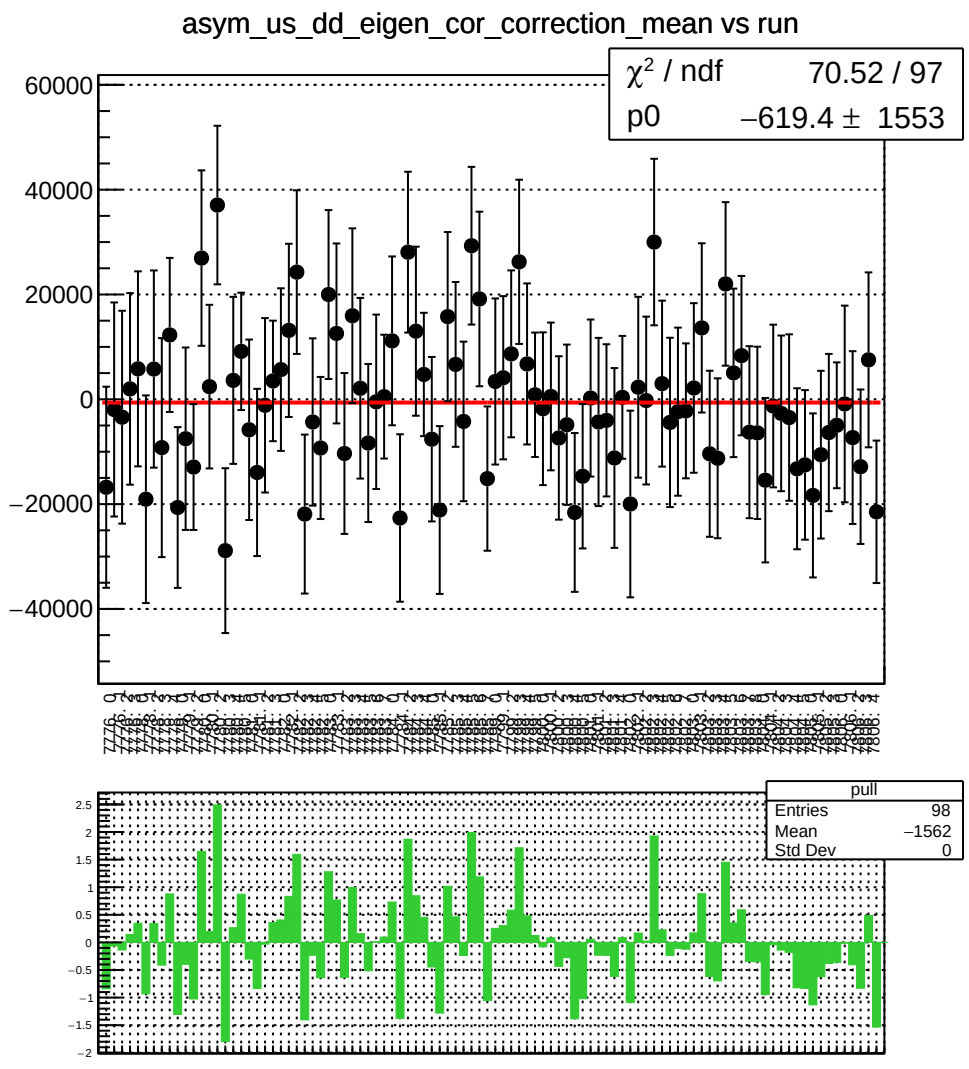

pull1D
Entries 98
Mean 0.002331
Std Dev 0.8474
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

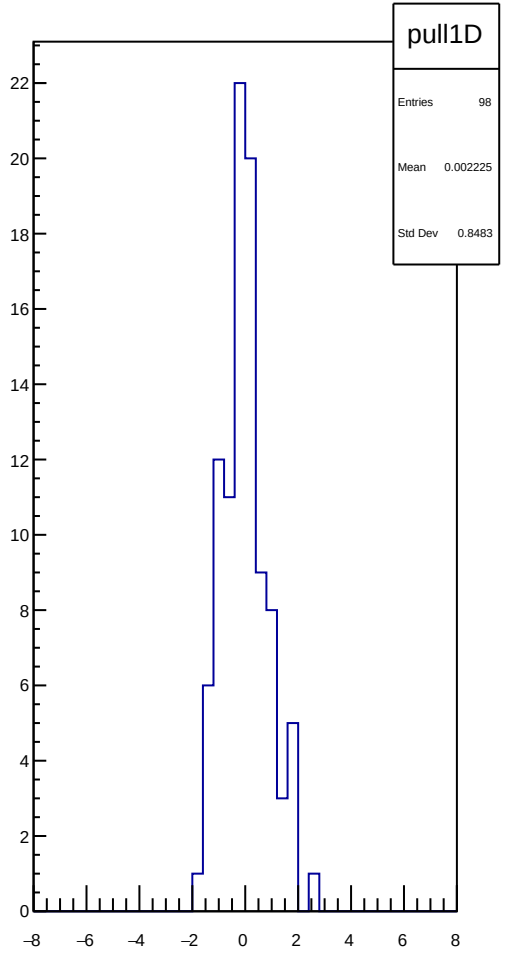

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.01e+04 / 97
p0 1527 ± 1.098
2000
1900
1800
1700
1600
1500
1400
1300

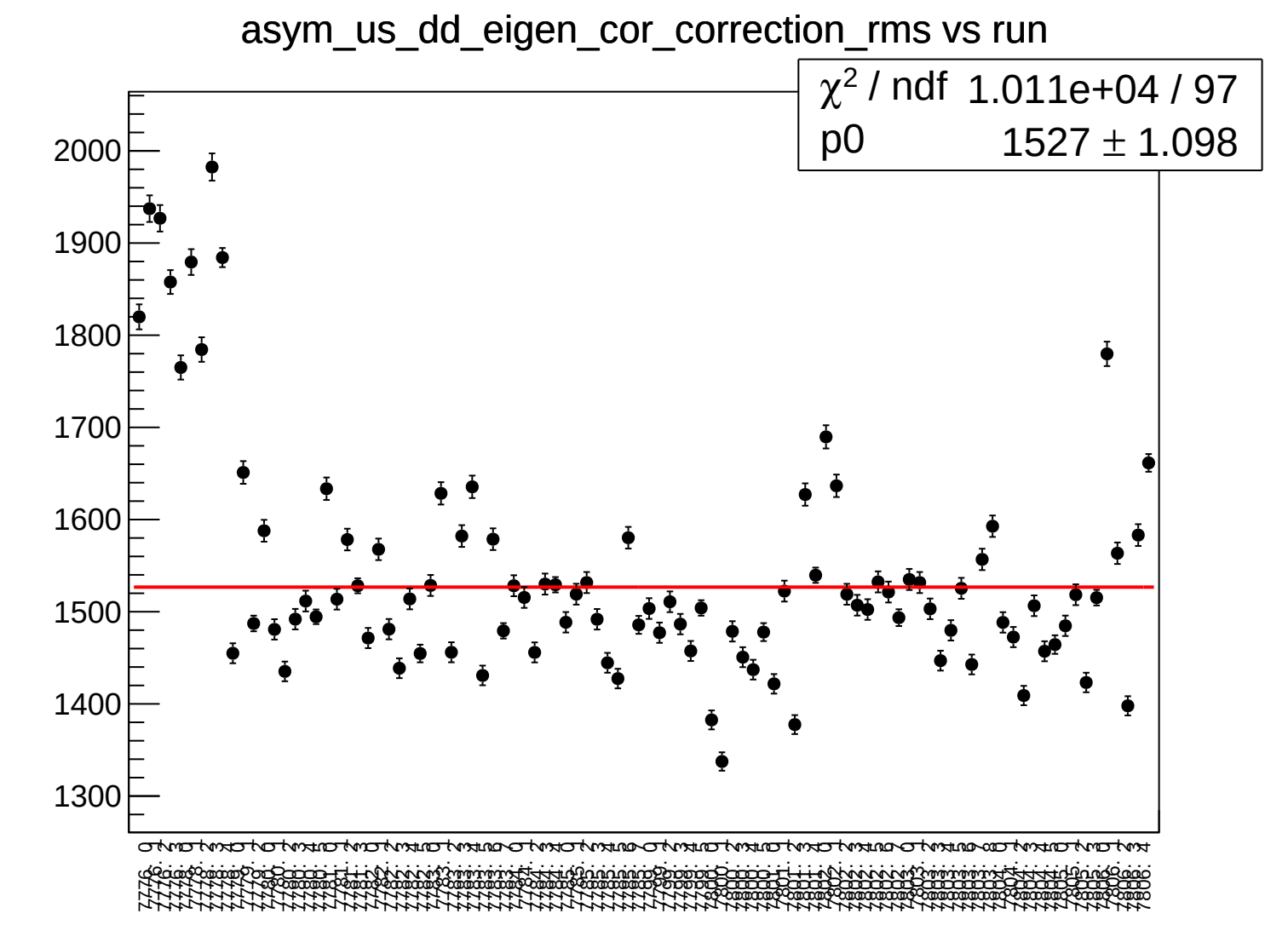

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 83.96 / 97
p0 989.2 ± 779.9
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 528.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

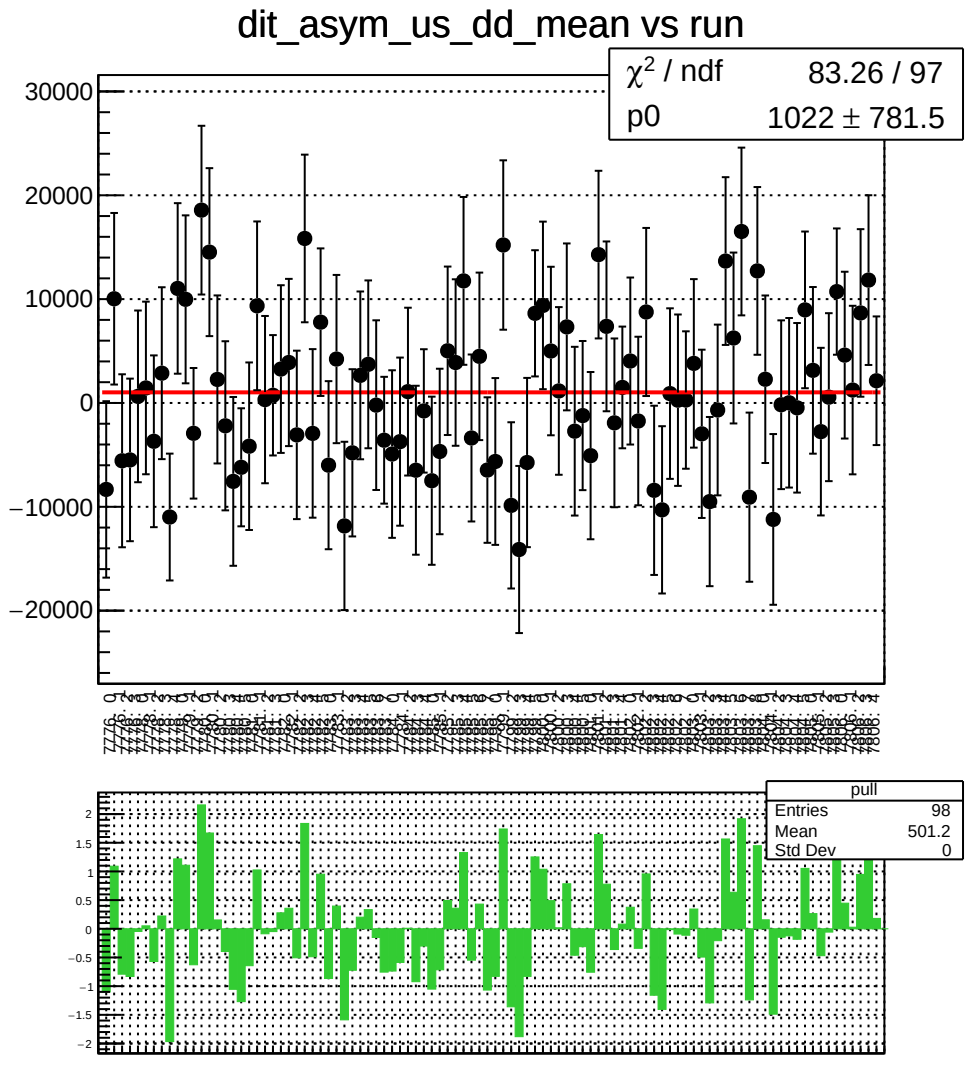

pull1D
Entries 98
Mean 0.007303
Std Dev 0.9256
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

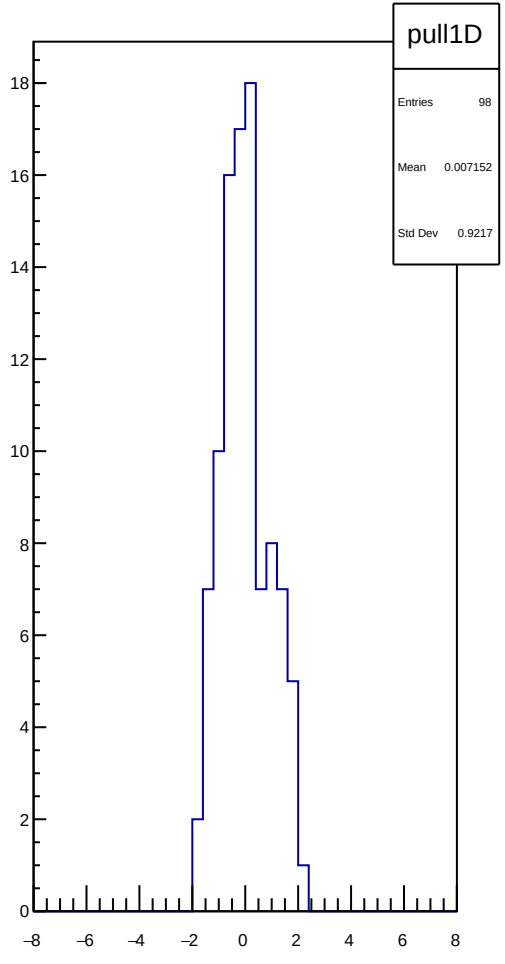

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 152 / 97
p0 768.7 ± 0.5515
800
790
780
770
760
750

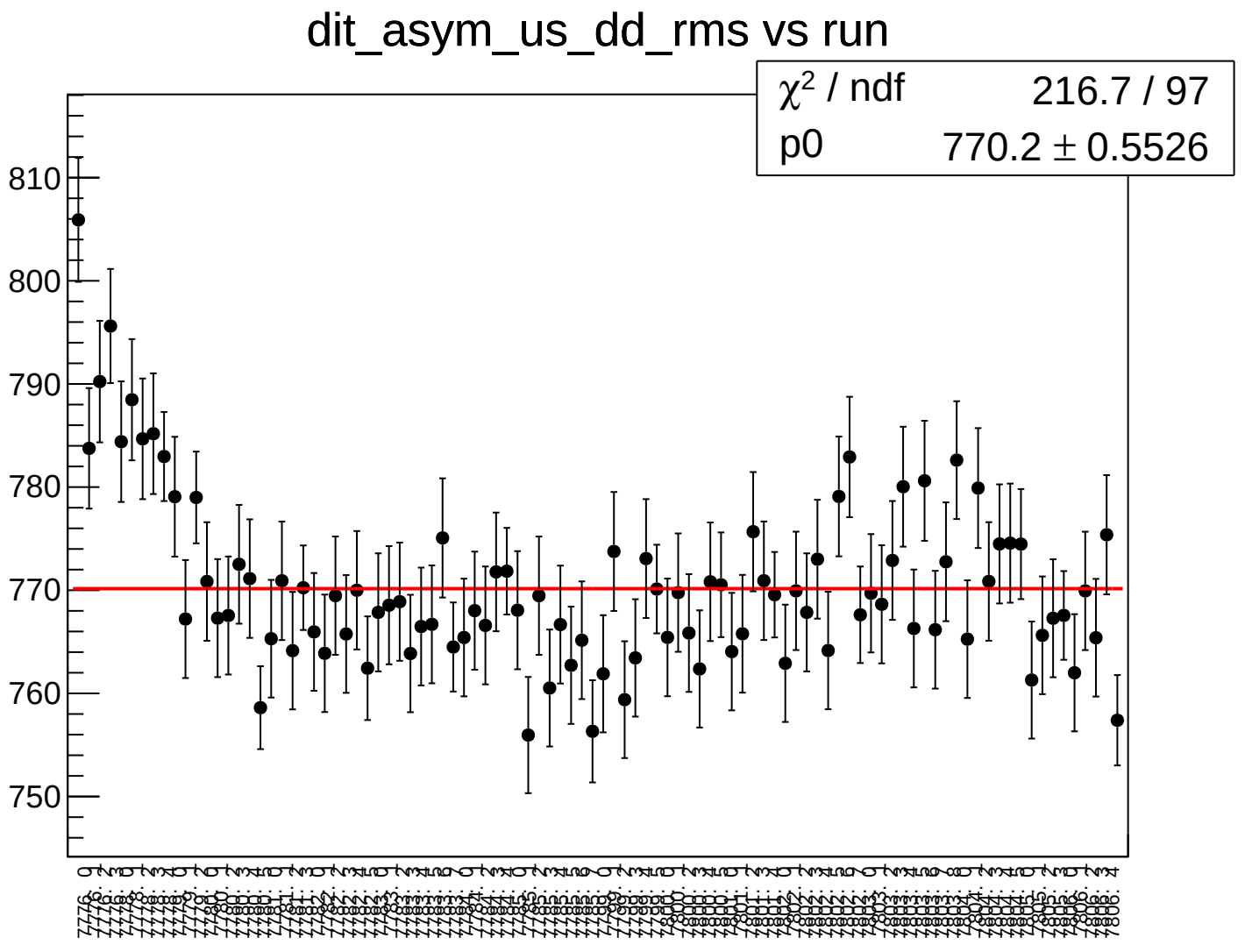

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.52 / 97
p0 −619.4 ± 1553
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −1562
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

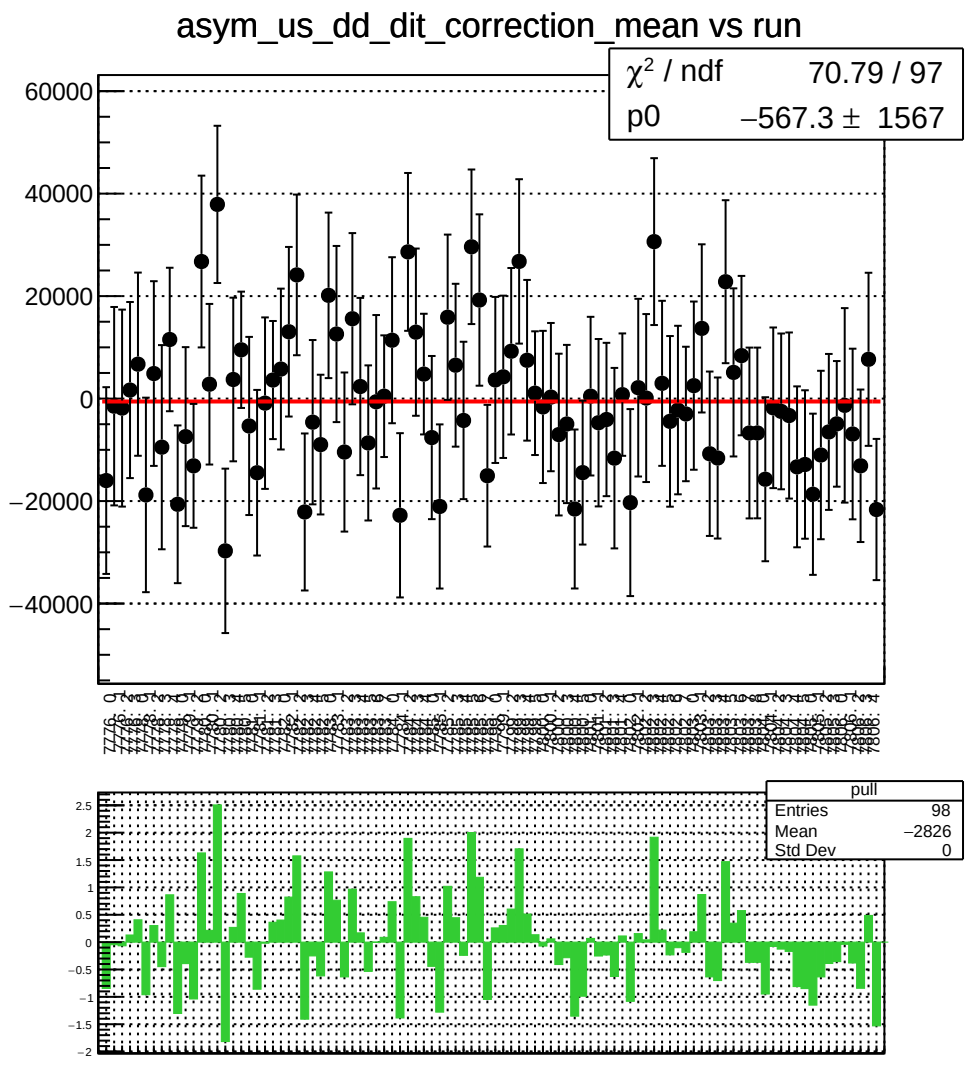

pull1D
Entries 98
Mean 0.002225
Std Dev 0.8483
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

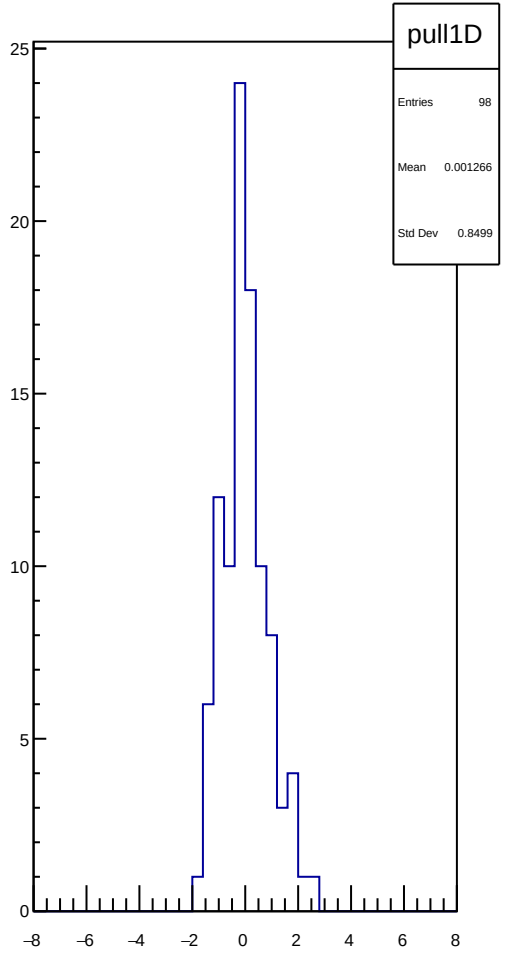

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.011e+04 / 97
p0 1527 ± 1.098
2000
1900
1800
1700
1600
1500
1400
1300

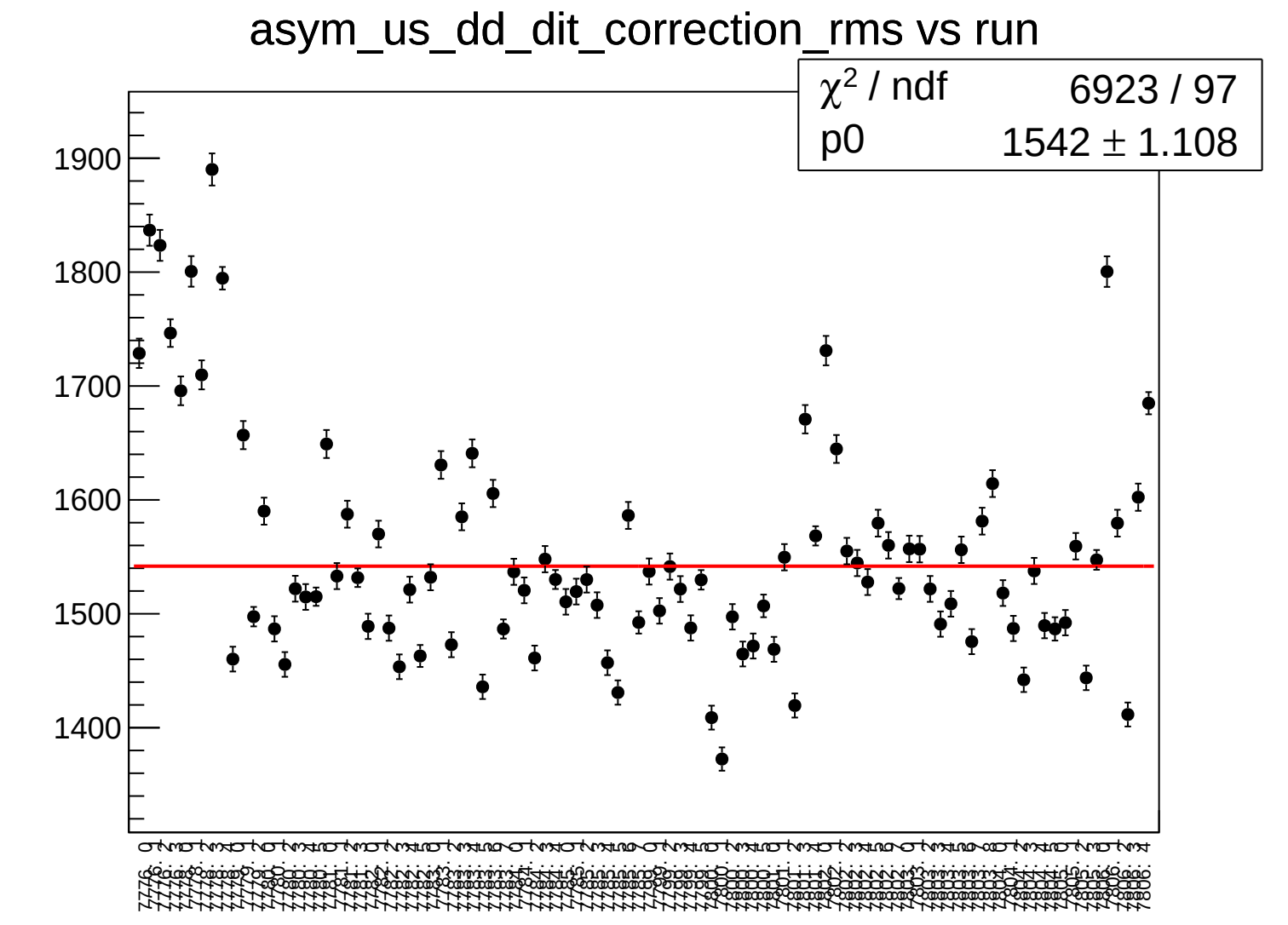

dit_asym_us_dd_mean vs run
χ² / ndf 83.26 / 97
p0 1022 ± 781.5
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 501.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

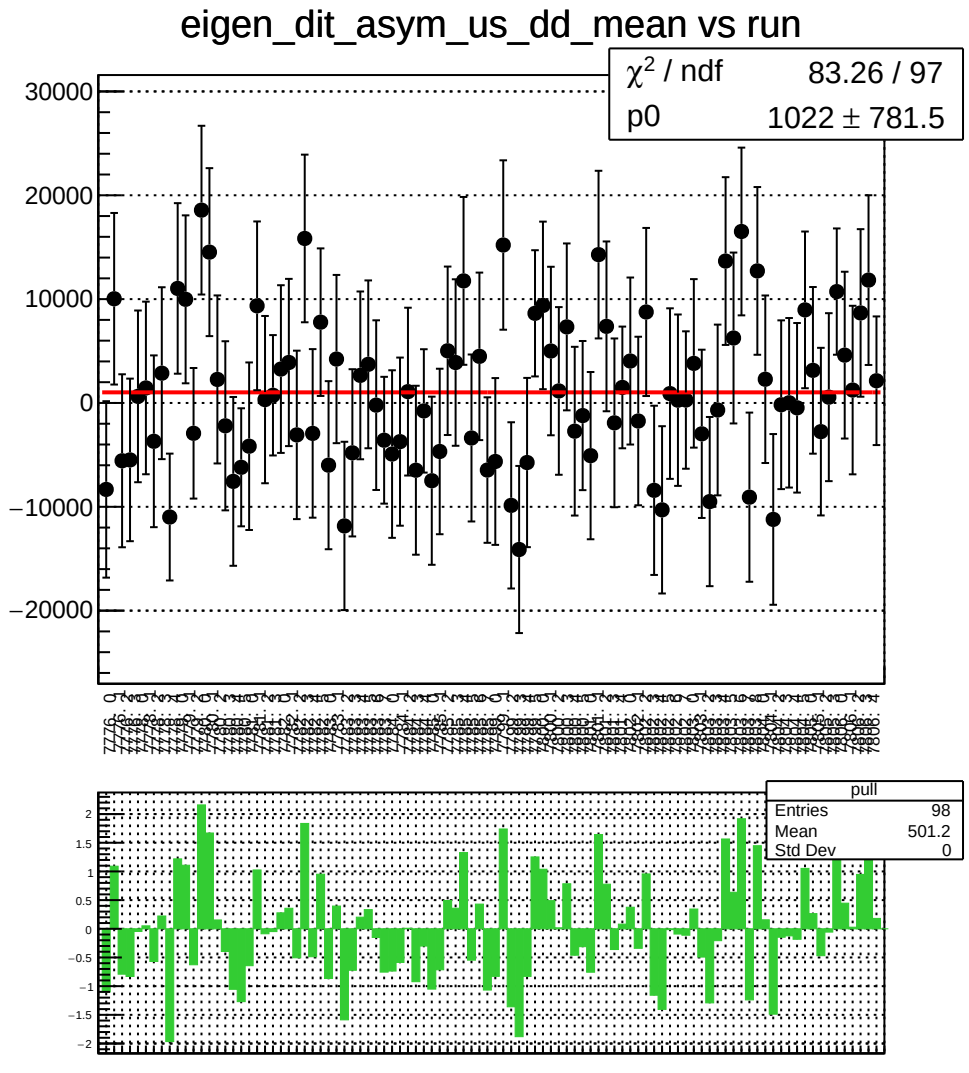

pull1D
Entries 98
Mean 0.007152
Std Dev 0.9217
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

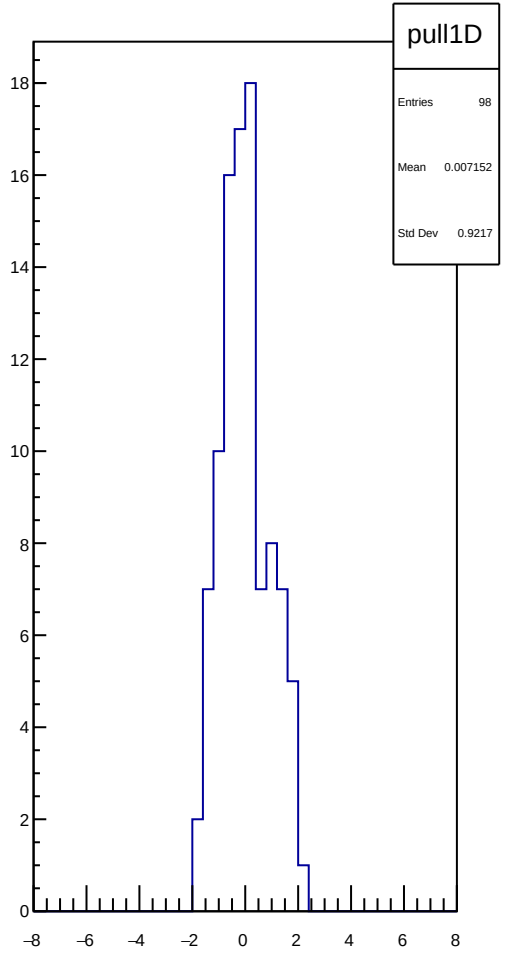

dit_asym_us_dd_rms vs run
χ^2 / ndf 216.7 / 97
p0 770.2 ± 0.5526
810
800
790
780
770
760
750

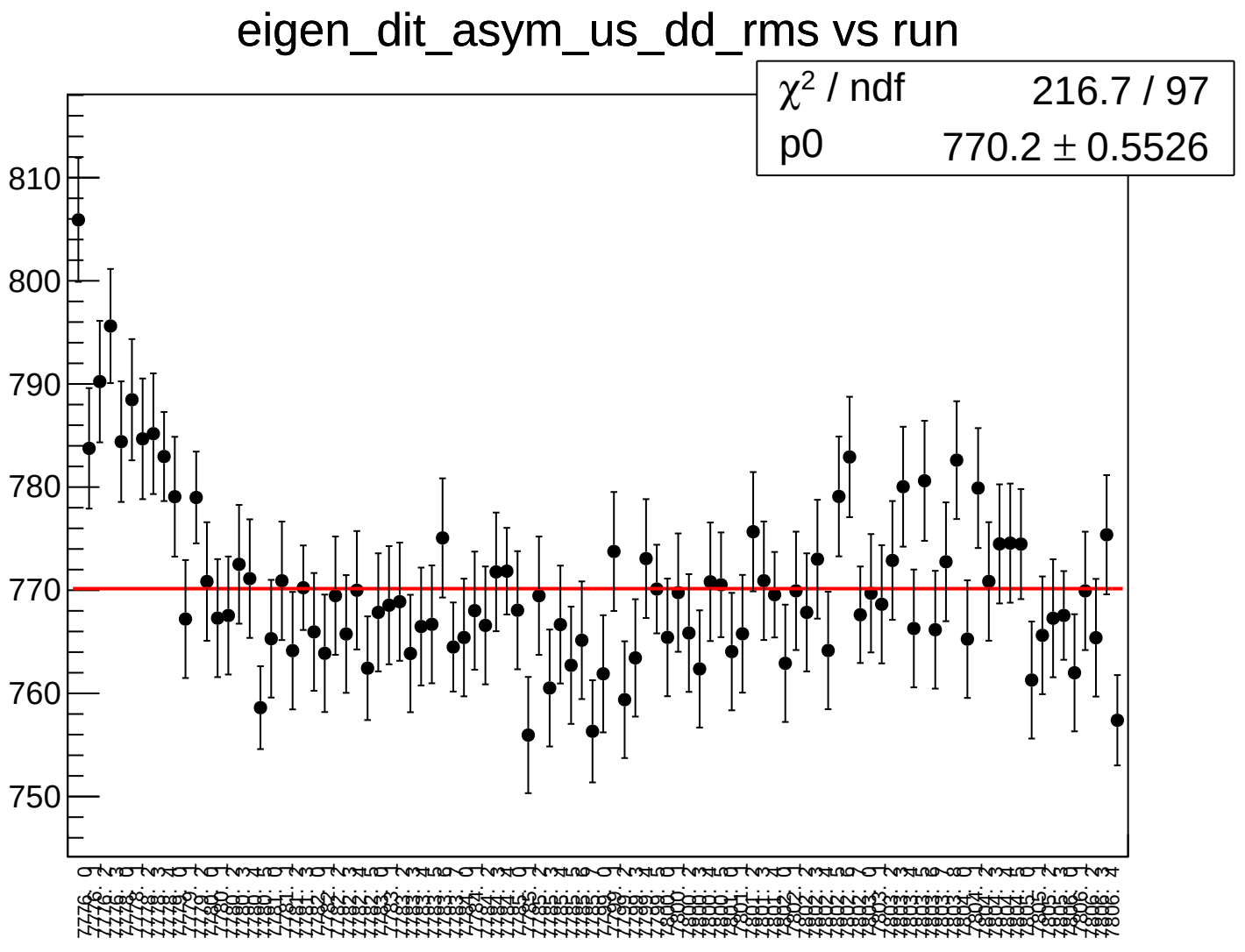

asym_us_dd_dit_correction_mean vs run
χ² / ndf 70.79 / 97
p0 −567.3 ± 1567
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −2826
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

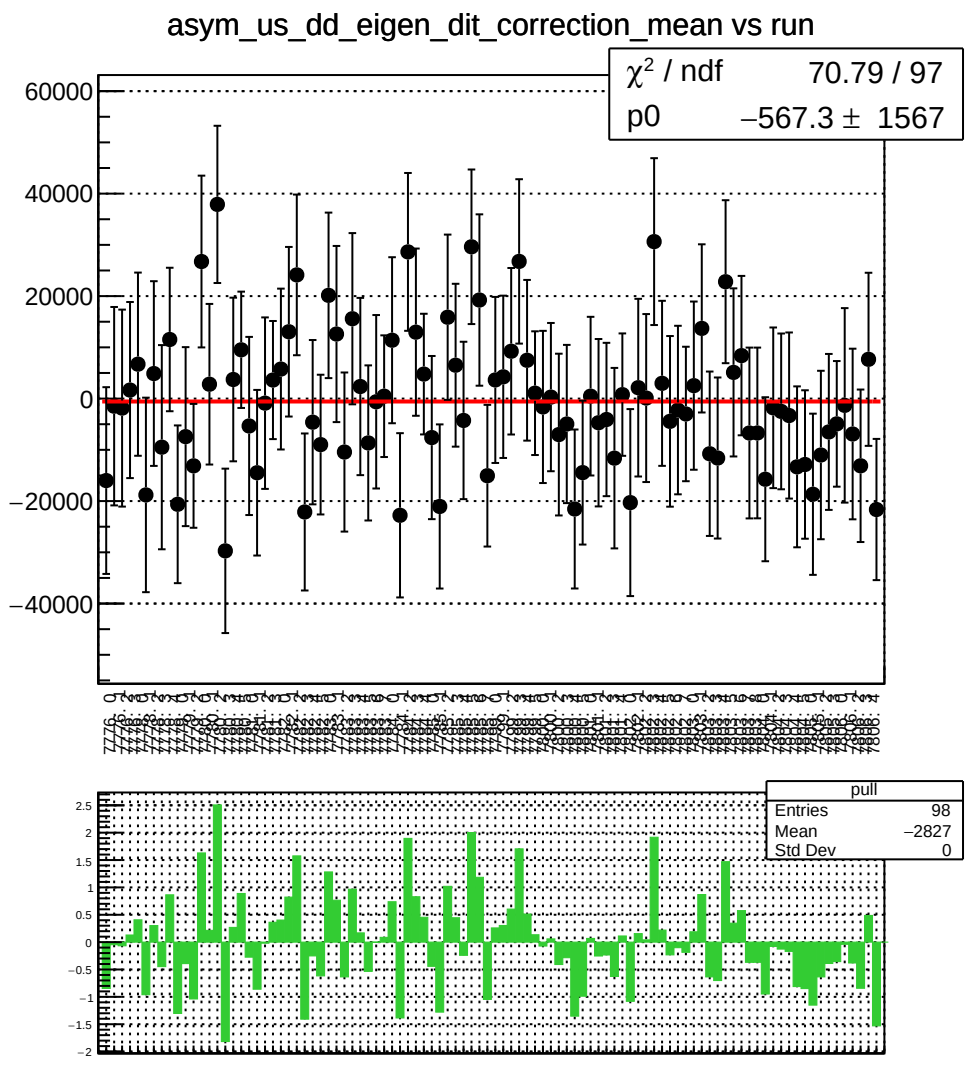

pull1D
Entries 98
Mean 0.001266
Std Dev 0.8499
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

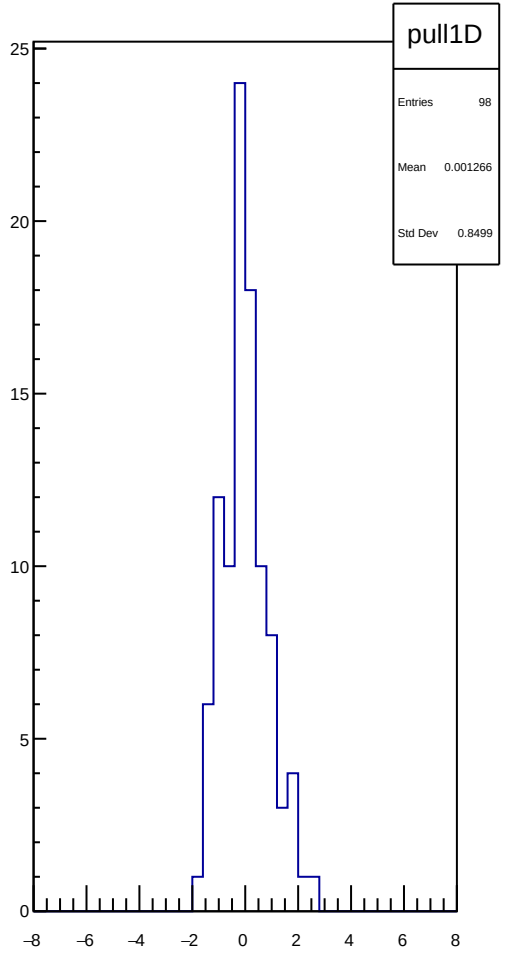

asym_us_dd_dit_correction_rms vs run
χ² / ndf 6923 / 97
p0 1542 ± 1.108
1900
1800
1700
1600
1500
1400

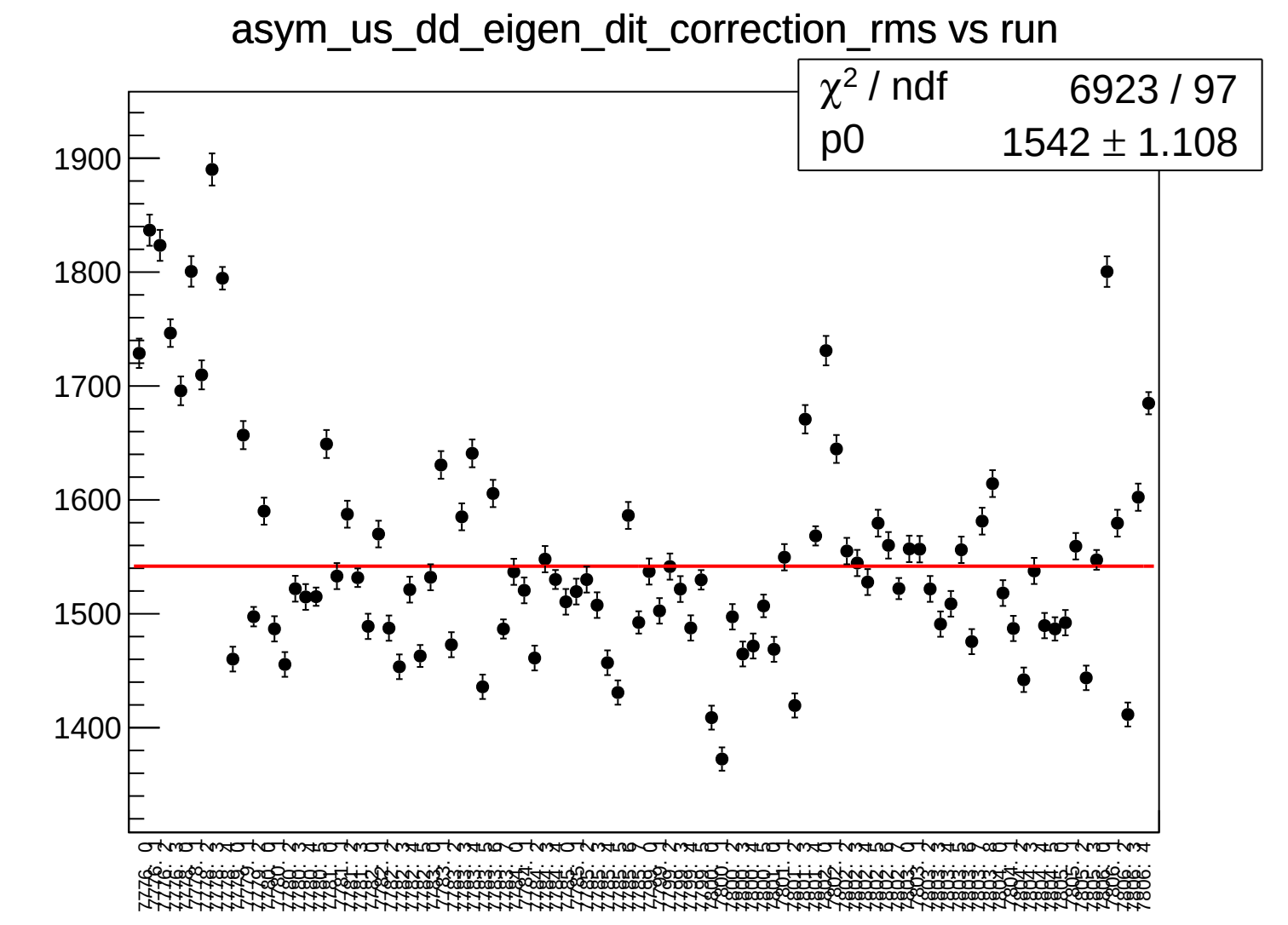

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 83.26 / 97
p0 1022 ± 781.5
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 501.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

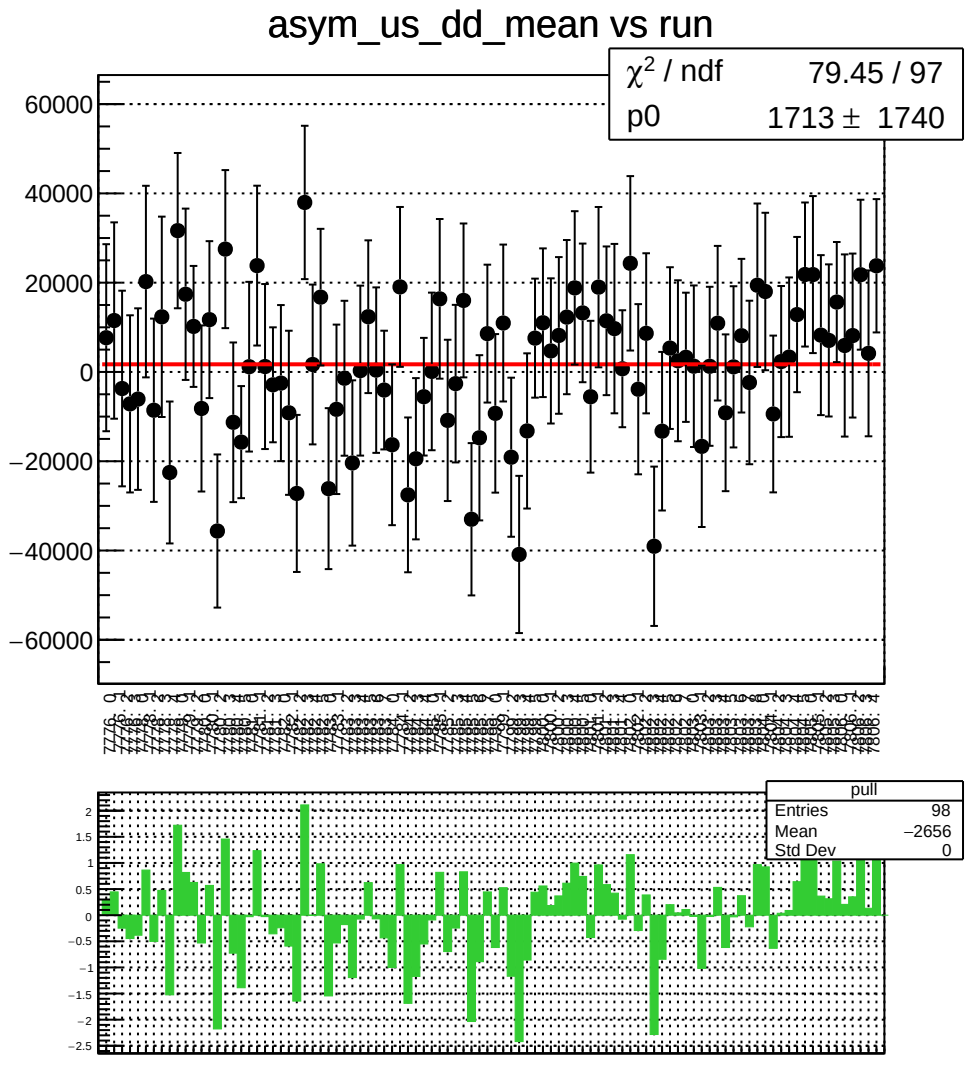

pull1D
Entries 98
Mean 0.007152
Std Dev 0.9217
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

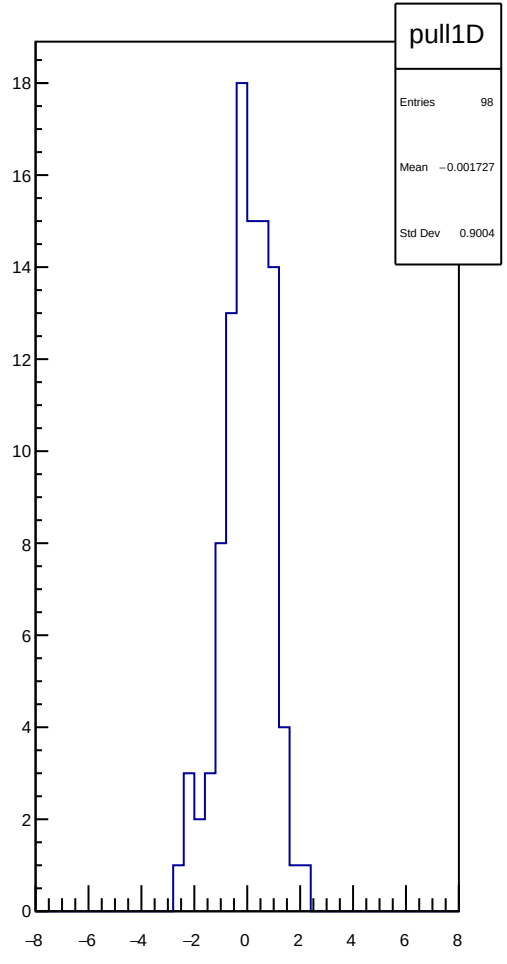

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 216.7 / 97
p0 770.2 ± 0.5526
810
800
790
780
770
760
750

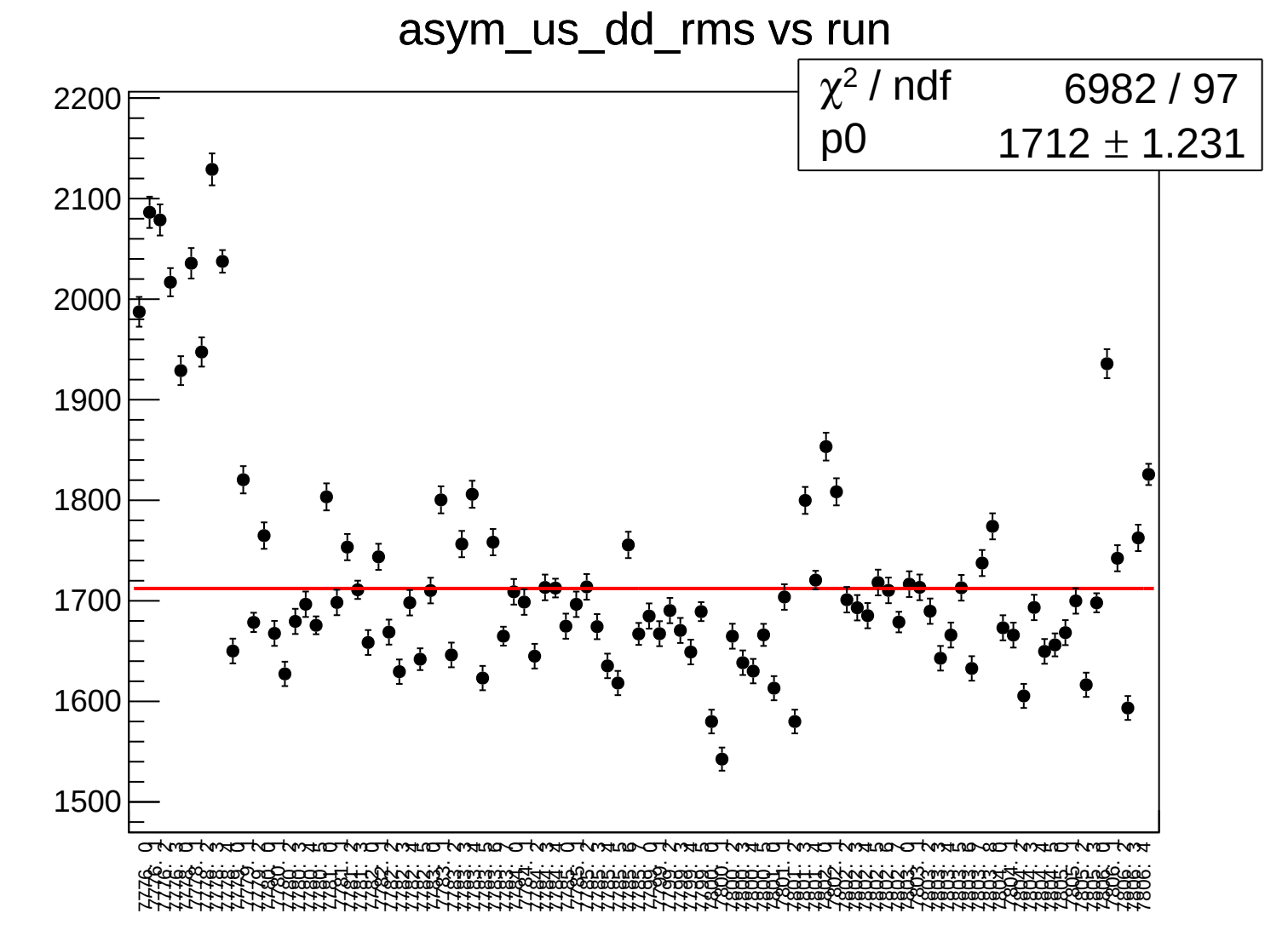

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.79 / 97
p0 −567.3 ± 1567
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −2827
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

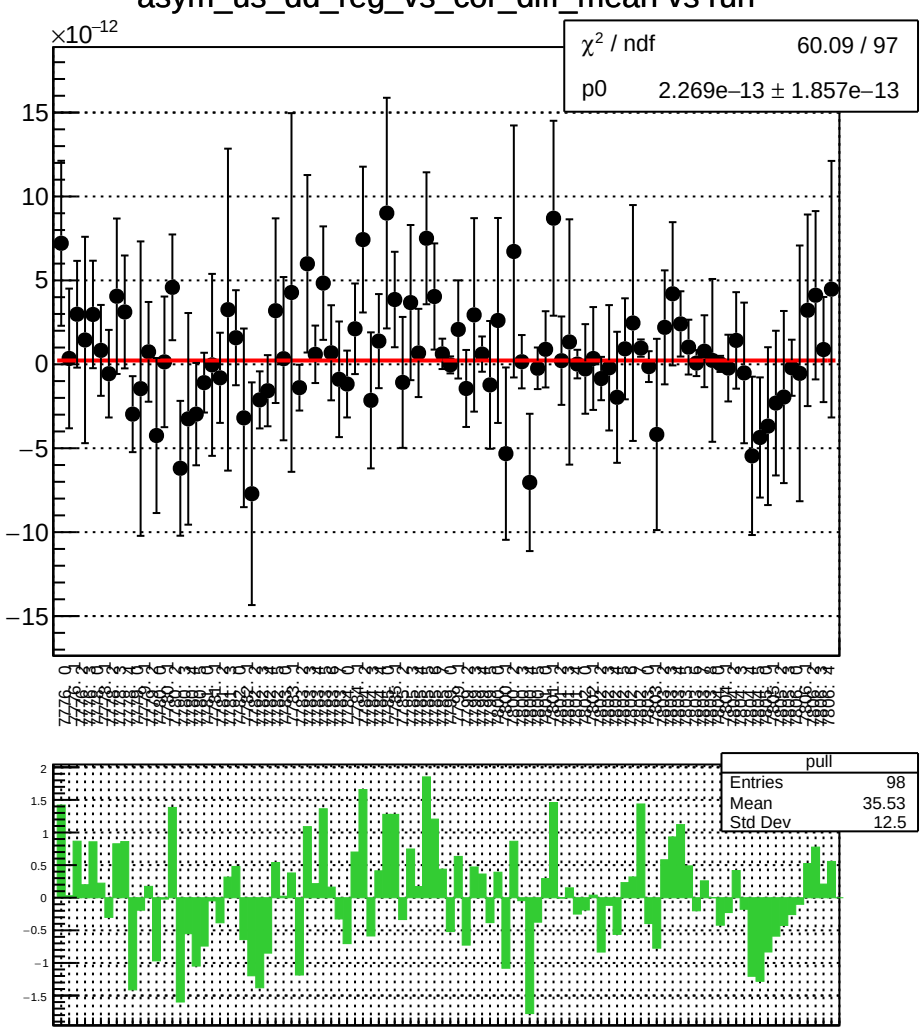

pull1D
Entries 98
Mean 0.001266
Std Dev 0.8499
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

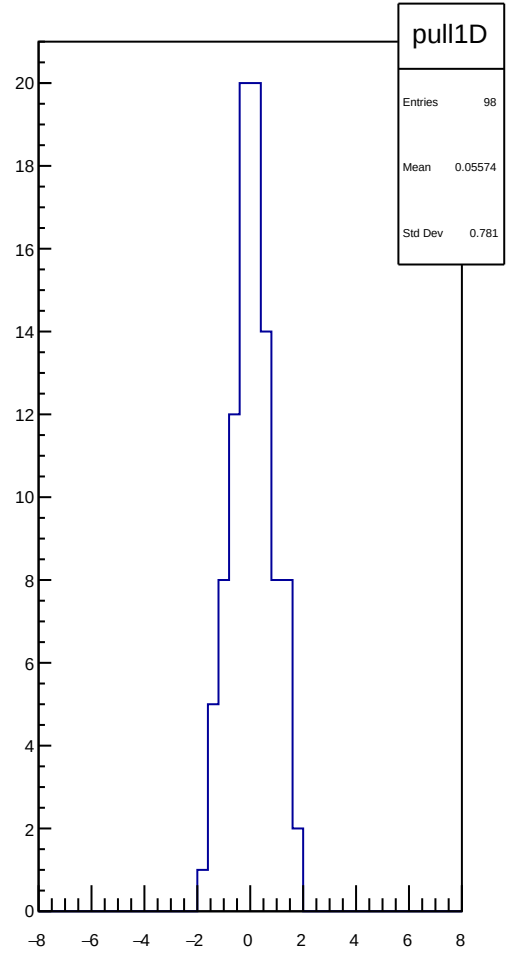

asym_us_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 6923 / 97
p0 1542 ± 1.108
1900
1800
1700
1600
1500
1400

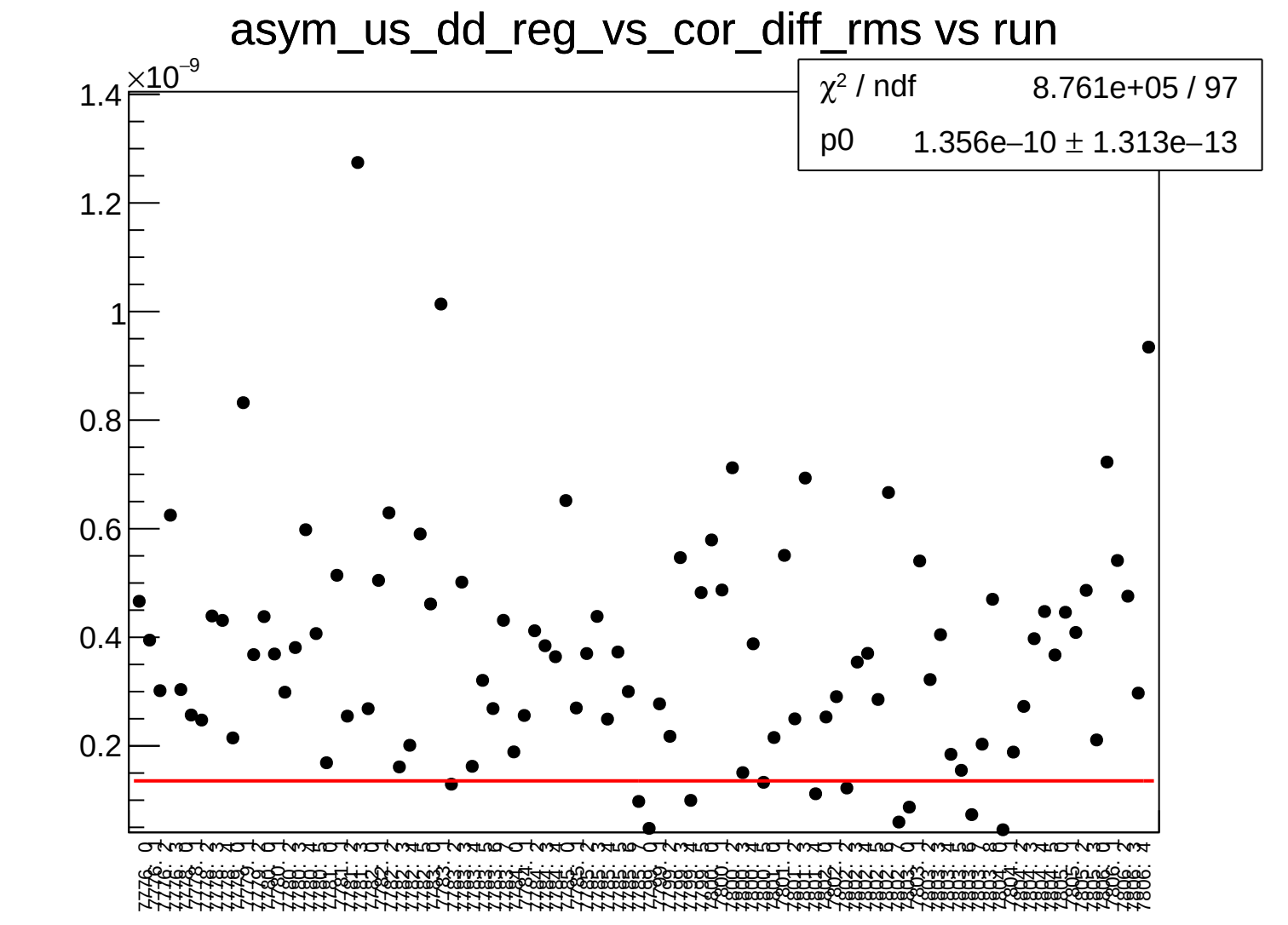

asym_us_dd_mean vs run
χ² / ndf 79.45 / 97
p0 1713 ± 1740
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −2656
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

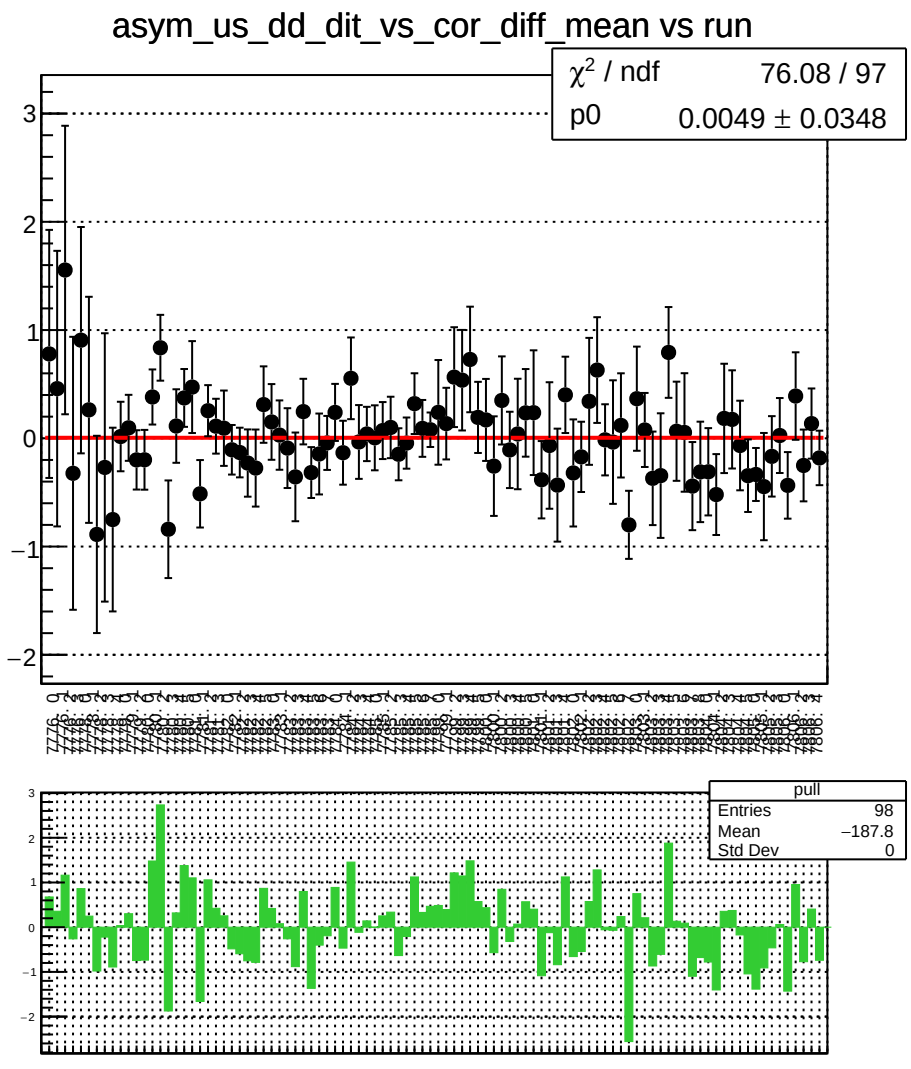

pull1D
Entries 98
Mean −0.001727
Std Dev 0.9004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

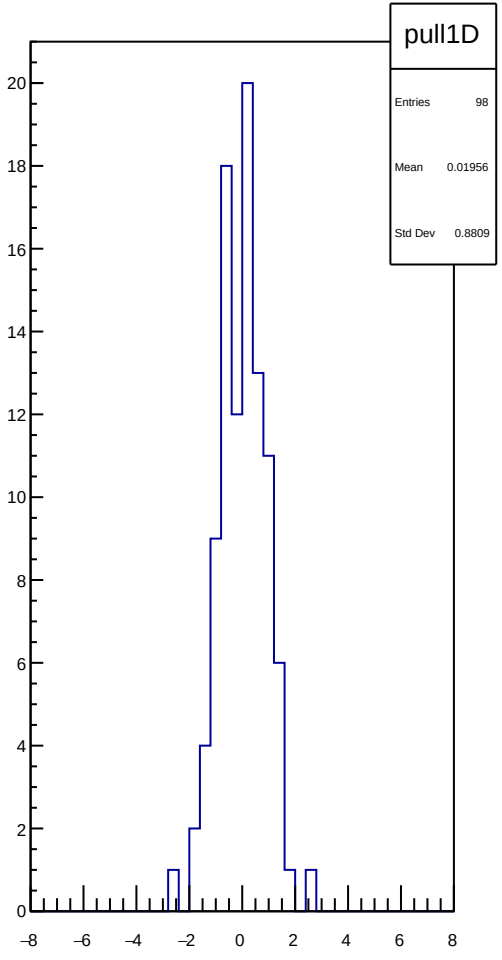

asym_us_dd_rms vs run
χ^2 / ndf 6982 / 97
p0 1712 ± 1.231
2200
2100
2000
1900
1800
1700
1600
1500

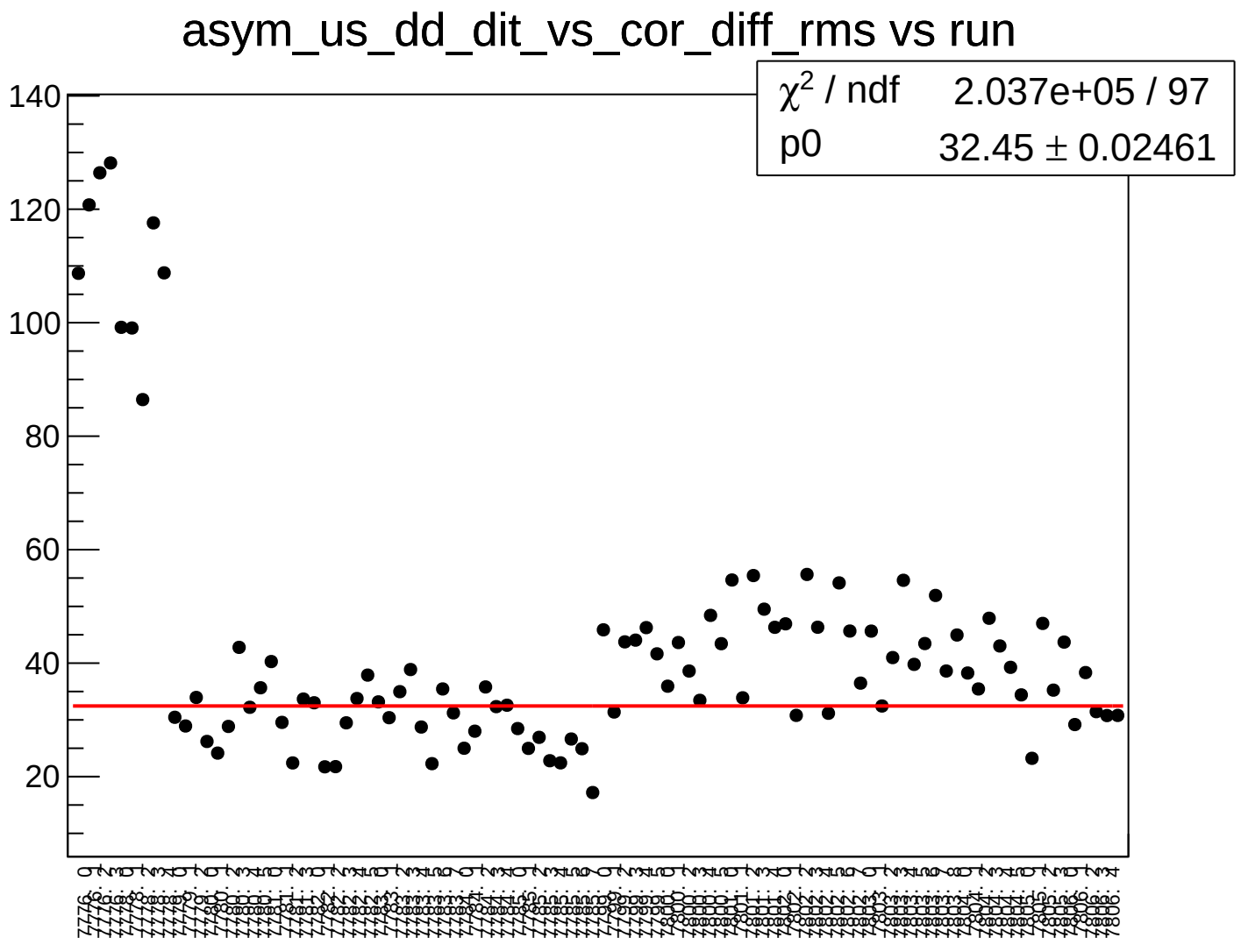

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.09 / 97
p0 2.269e−13 ± 1.857e−13
15
10
5
0
−5
−10
−15
pull
Entries 98
Mean 35.53
Std Dev 12.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

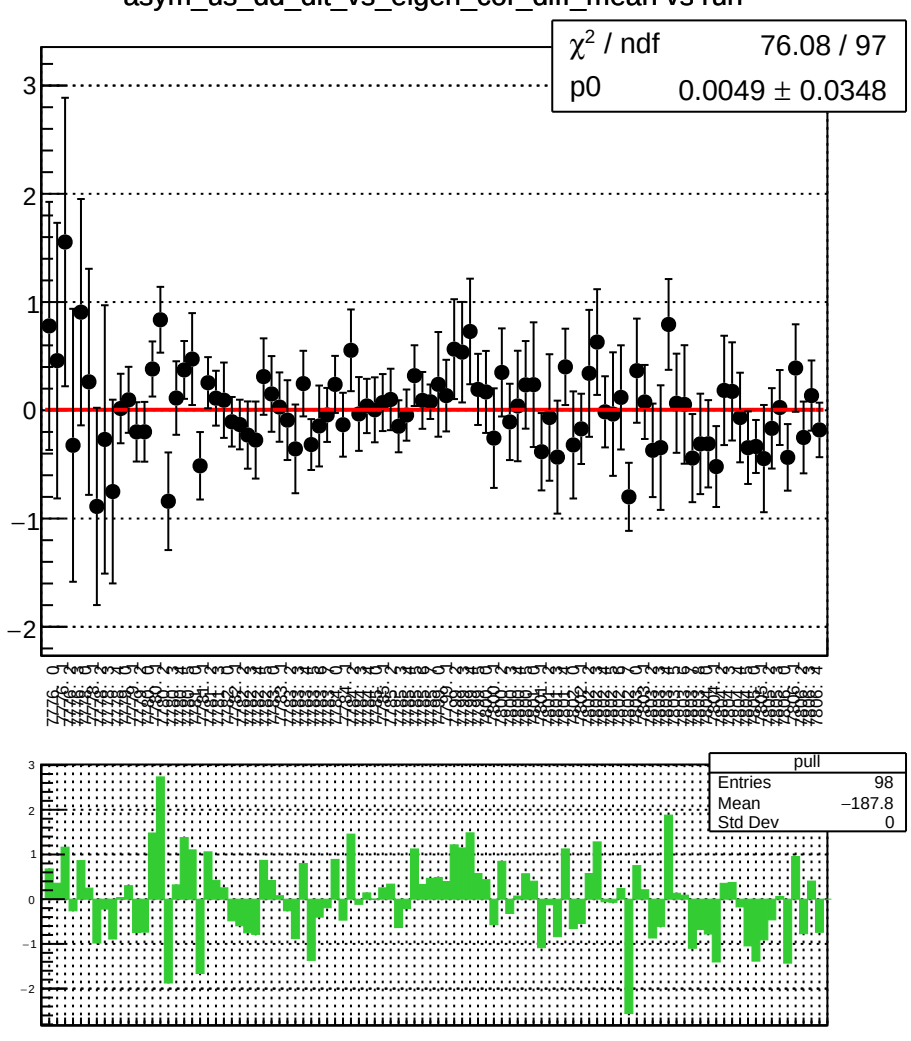

pull1D
Entries 98
Mean 0.05574
Std Dev 0.781
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

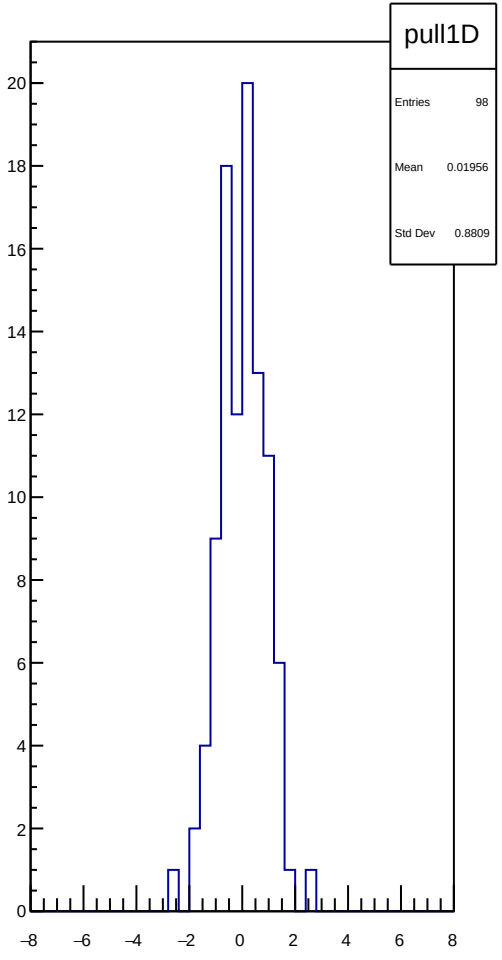

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.761e+05 / 97
p0 1.356e−10 ± 1.313e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

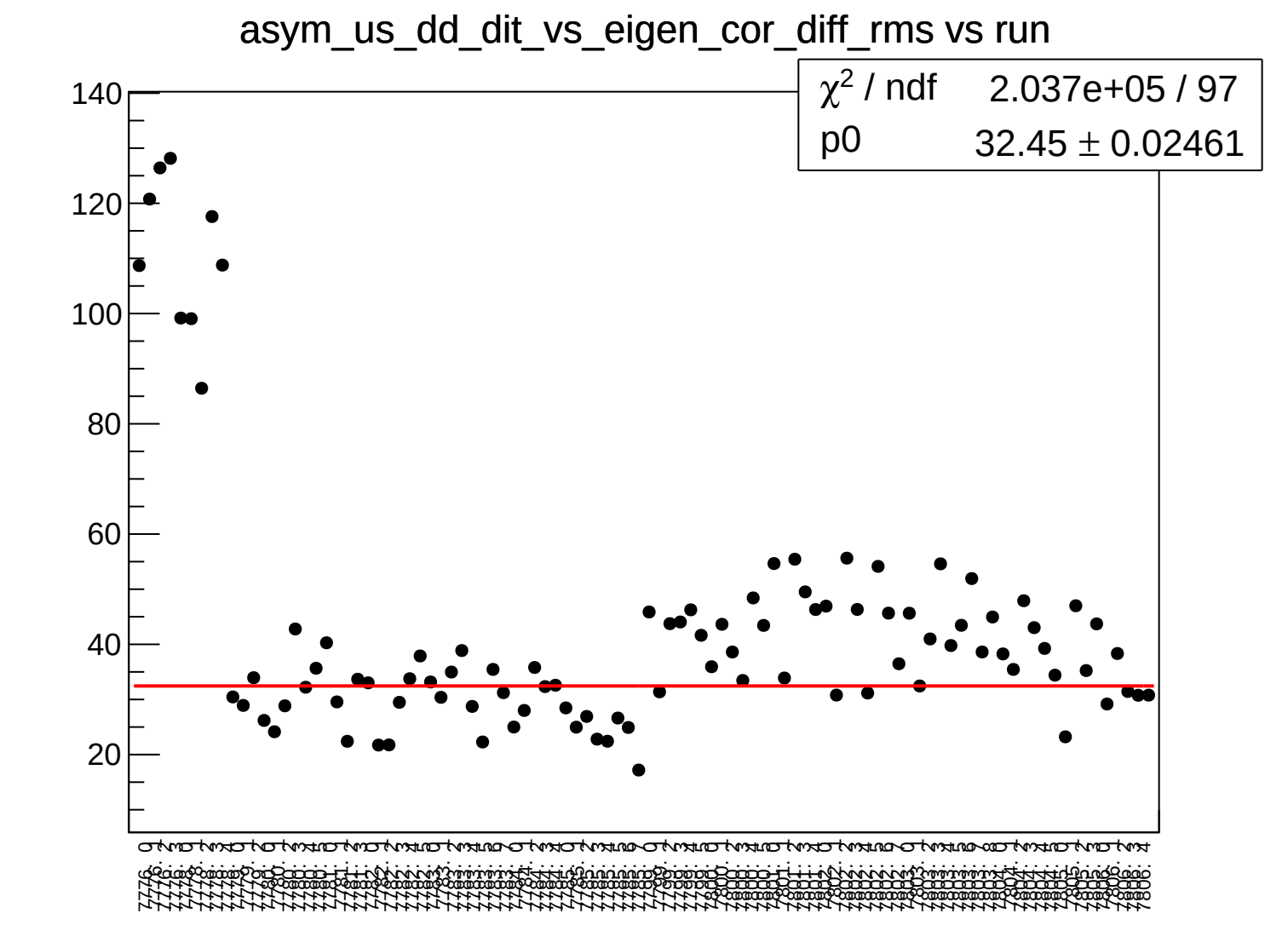

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.08 / 97
p0 0.0049 ± 0.0348
pull
Entries 98
Mean −187.8
Std Dev 0

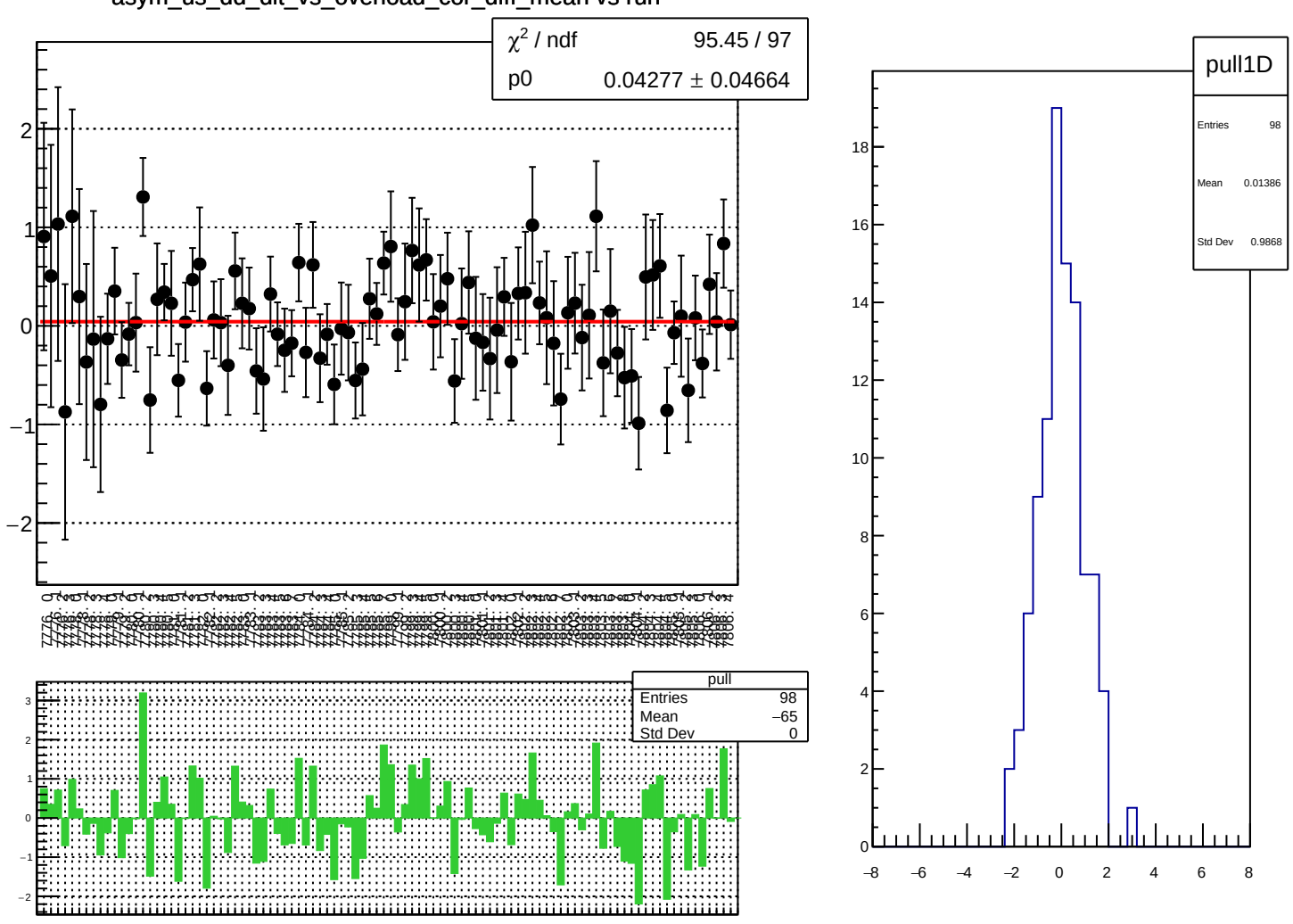

pull1D
Entries 98
Mean 0.01956
Std Dev 0.8809

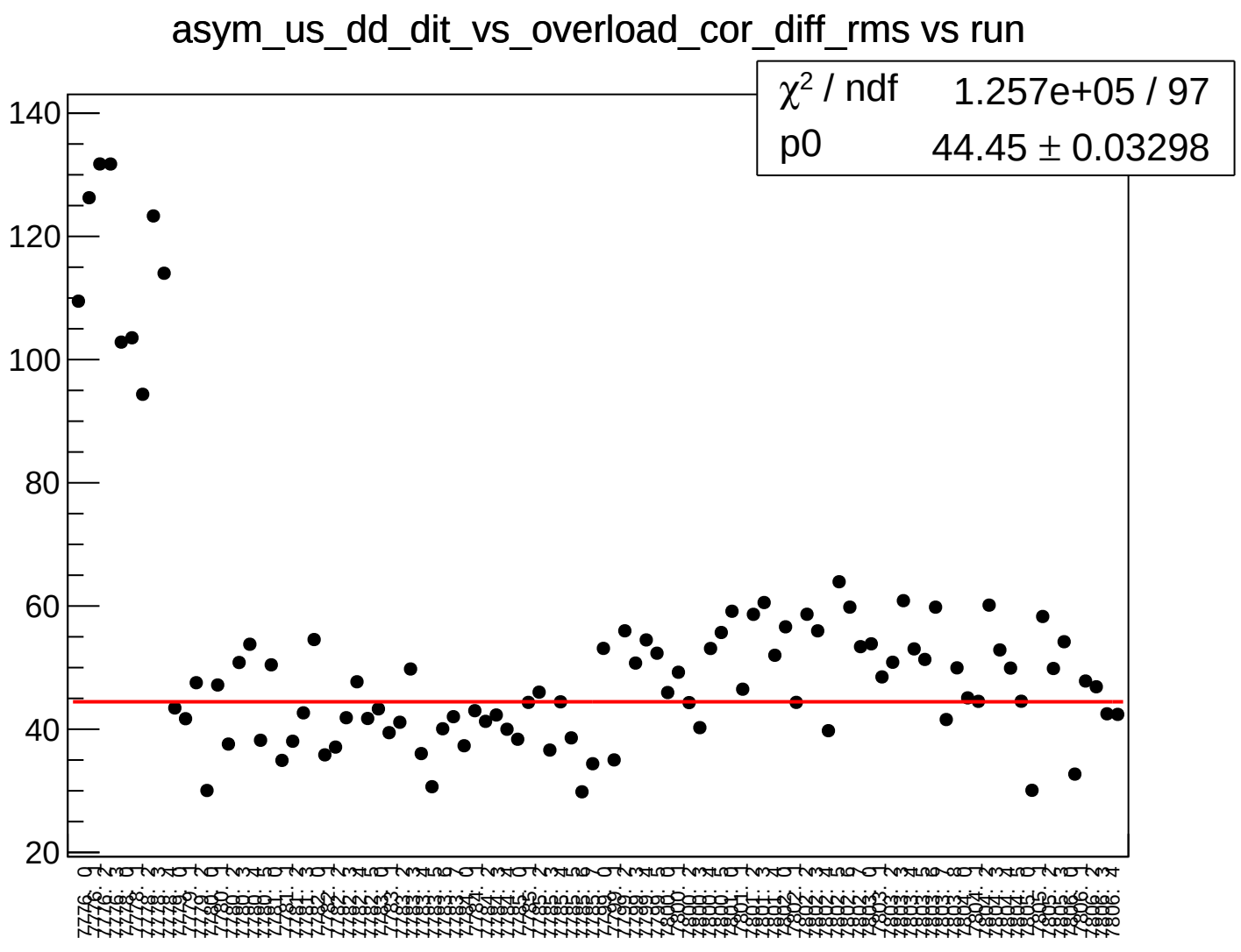

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.037e+05 / 97
p0 32.45 ± 0.02461
140
120
100
80
60
40
20

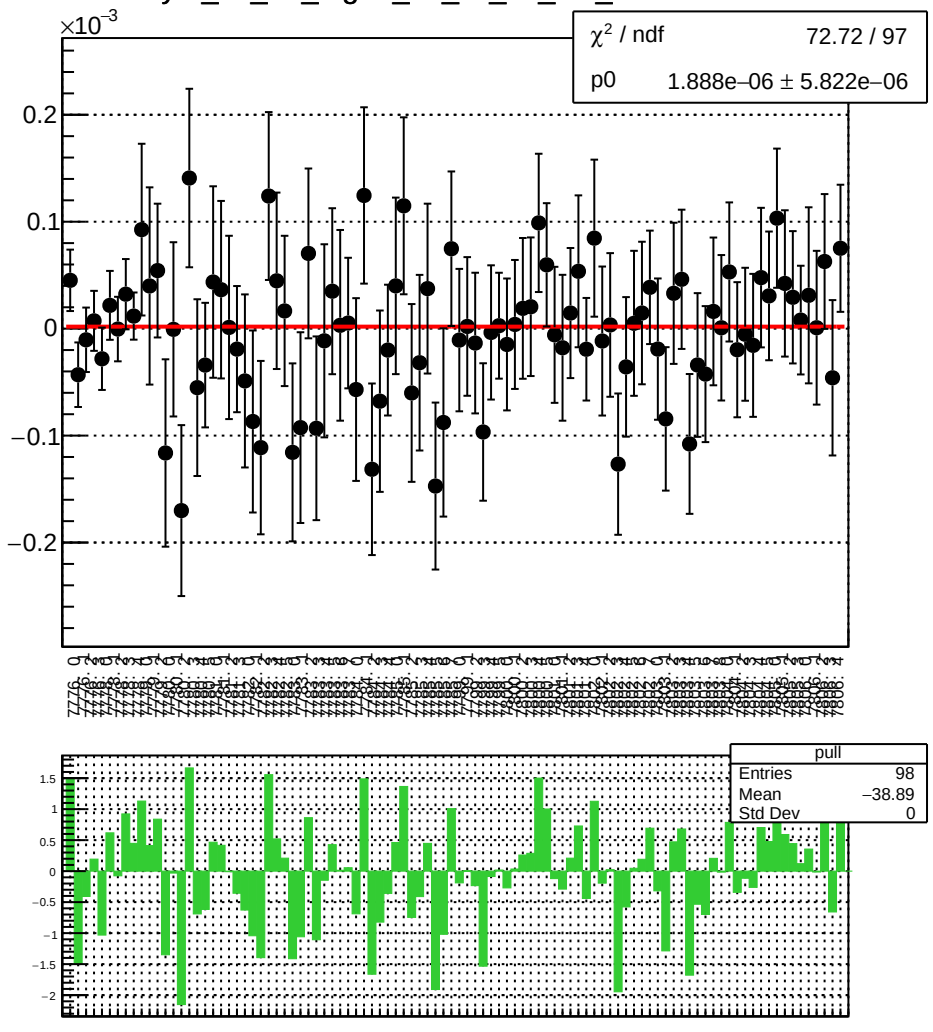

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.08 / 97
p0 0.0049 ± 0.0348
pull
Entries 98
Mean −187.8
Std Dev 0

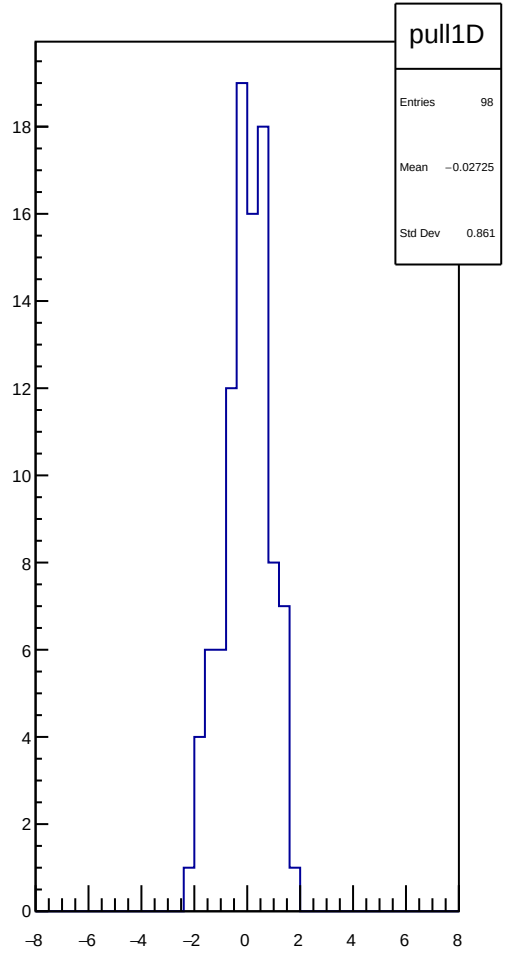

pull1D
Entries 98
Mean 0.01956
Std Dev 0.8809

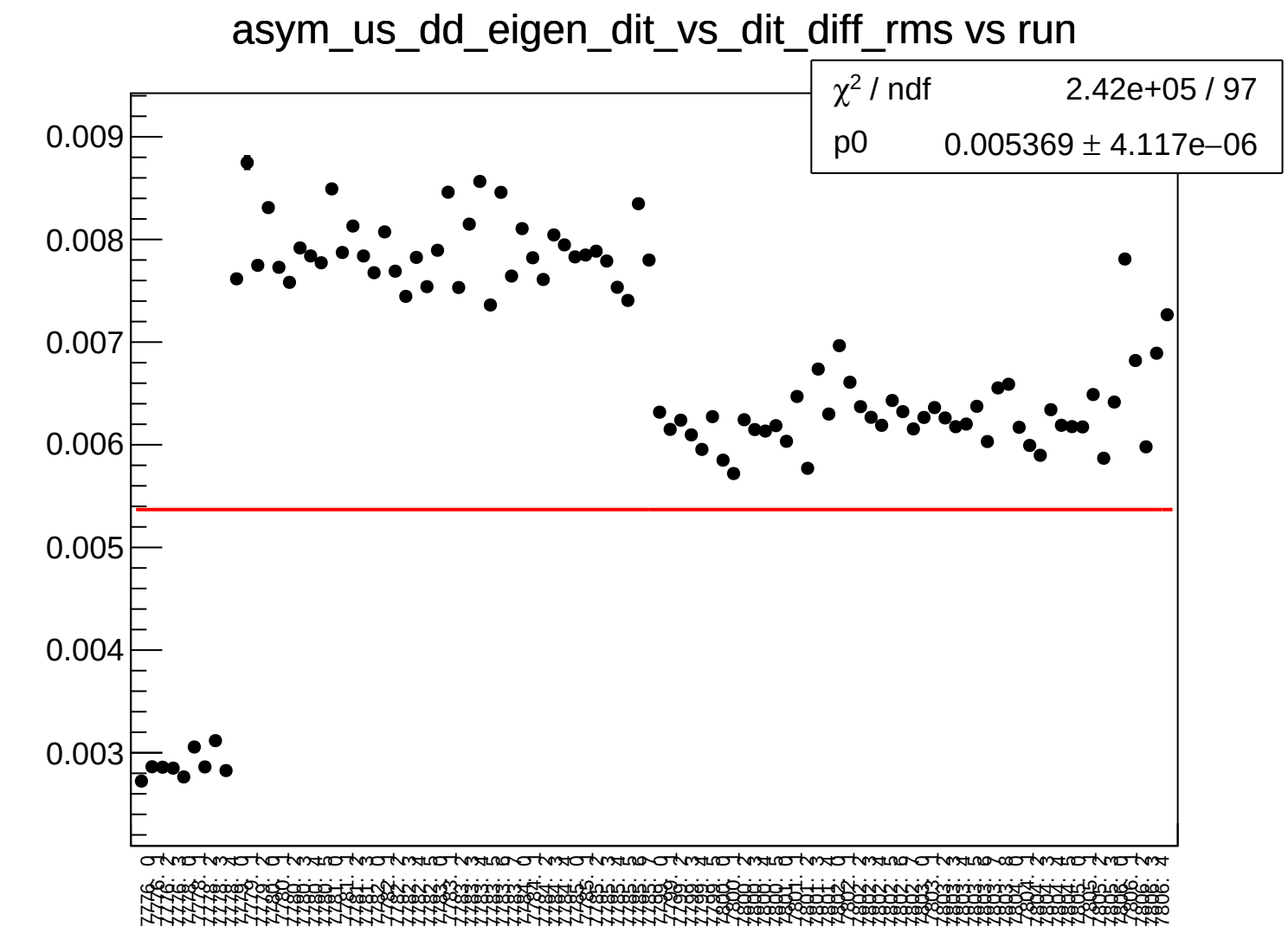

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.037e+05 / 97
p0 32.45 ± 0.02461
140
120
100
80
60
40
20

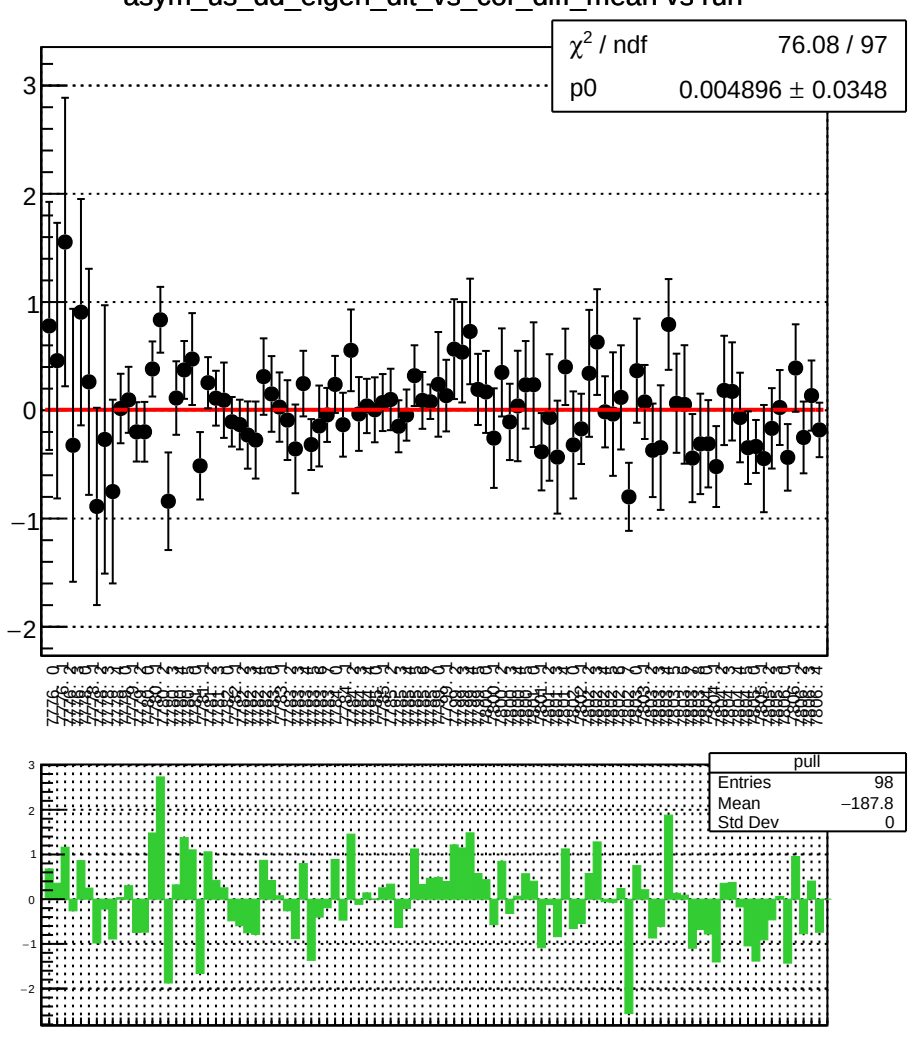

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 95.45 / 97
p0 0.04277 ± 0.04664
pull
Entries 98
Mean −65
Std Dev 0
pull1D
Entries 98
Mean 0.01386
Std Dev 0.9868

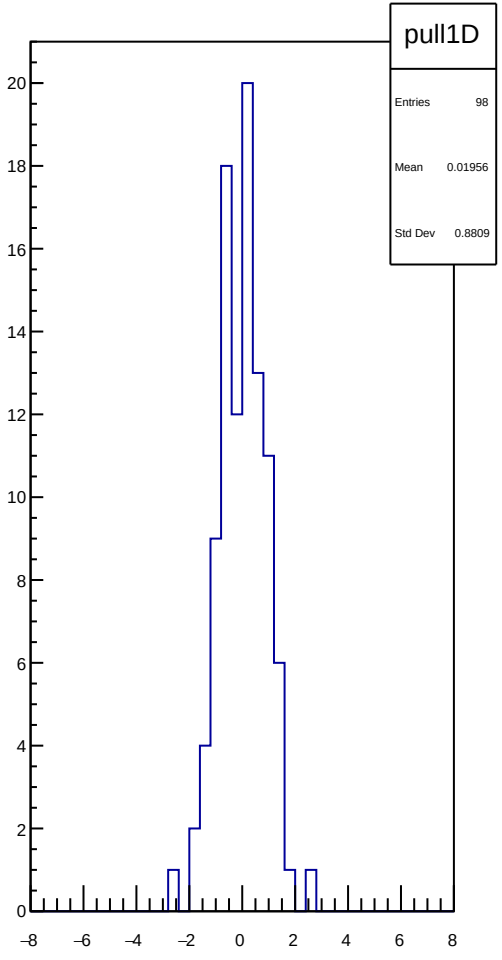

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 97
p0 44.45 ± 0.03298
140
120
100
80
60
40
20

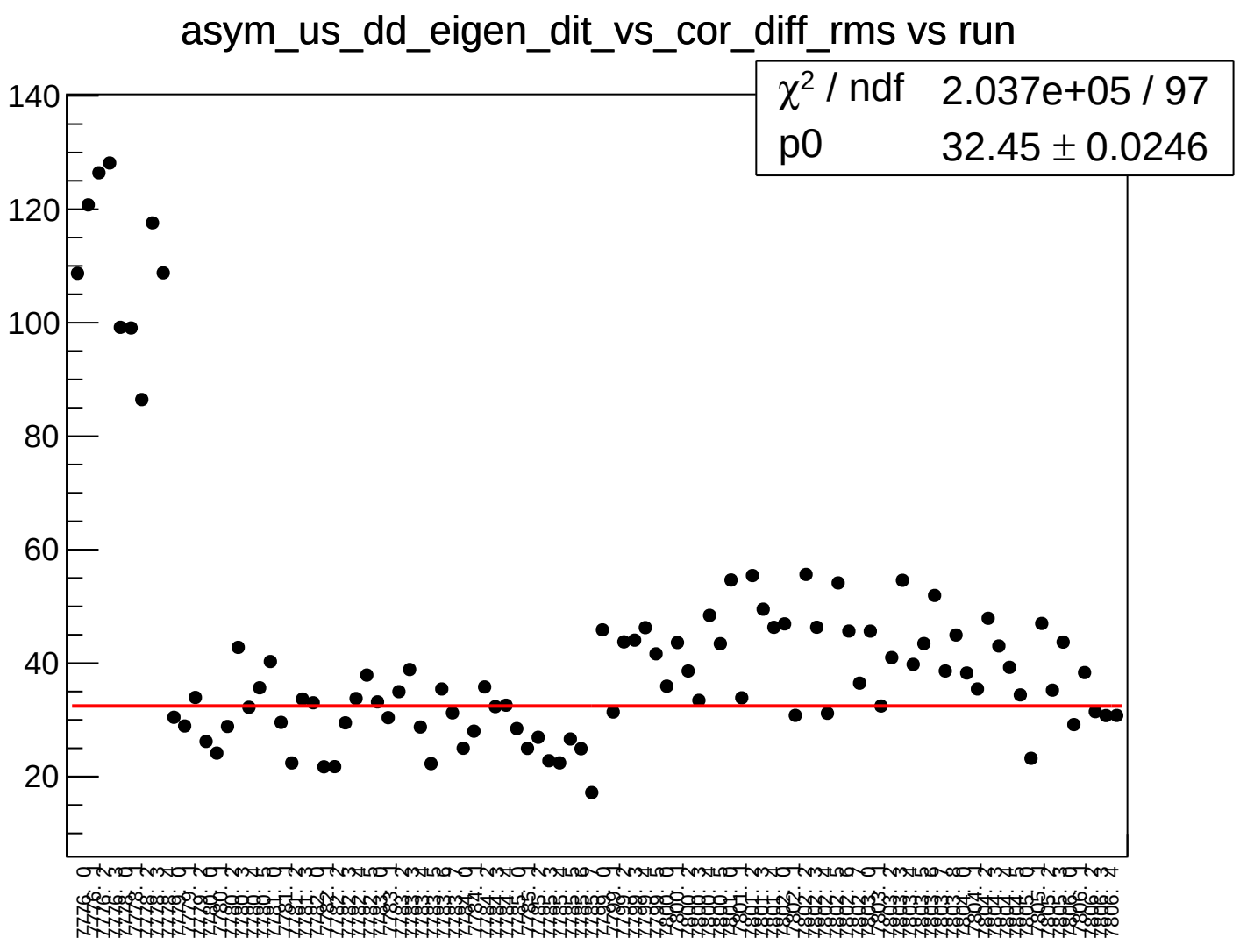

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.72 / 97
p0 1.888e−06 ± 5.822e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 98
Mean −38.89
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

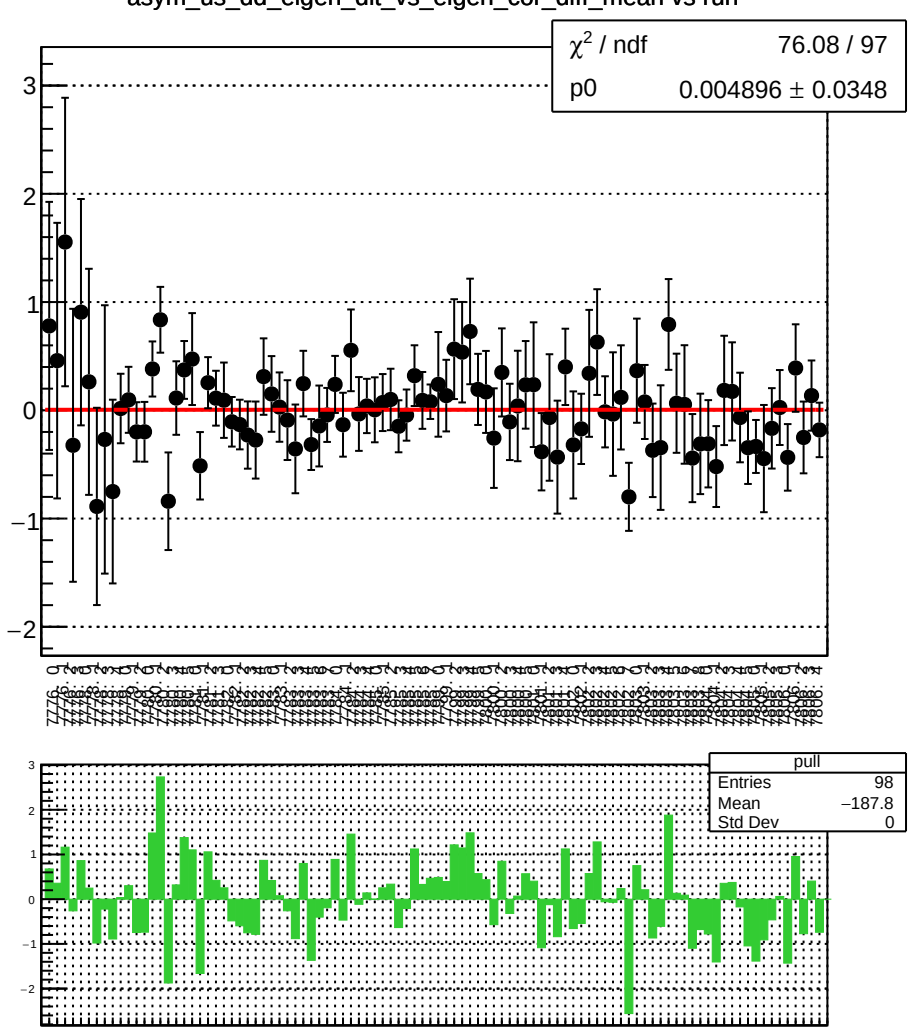

pull1D
Entries 98
Mean −0.02725
Std Dev 0.861
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

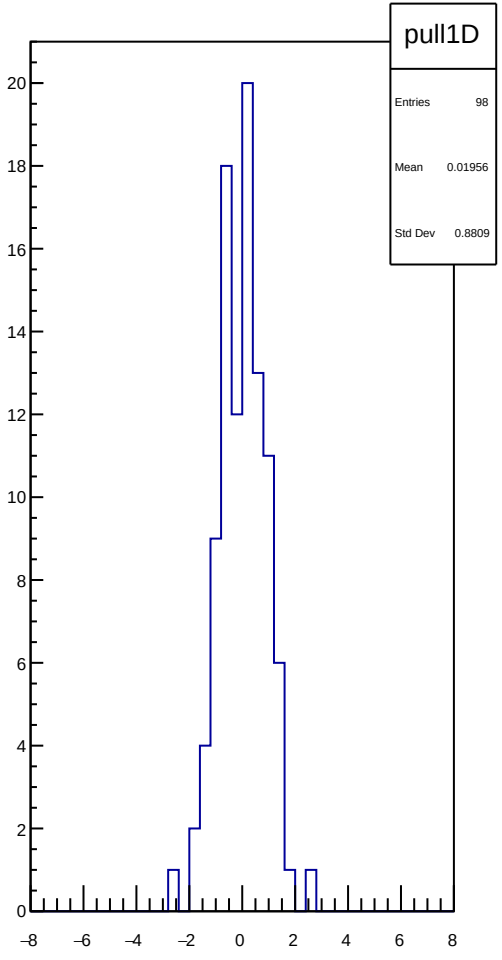

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.42e+05 / 97
p0 0.005369 ± 4.117e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

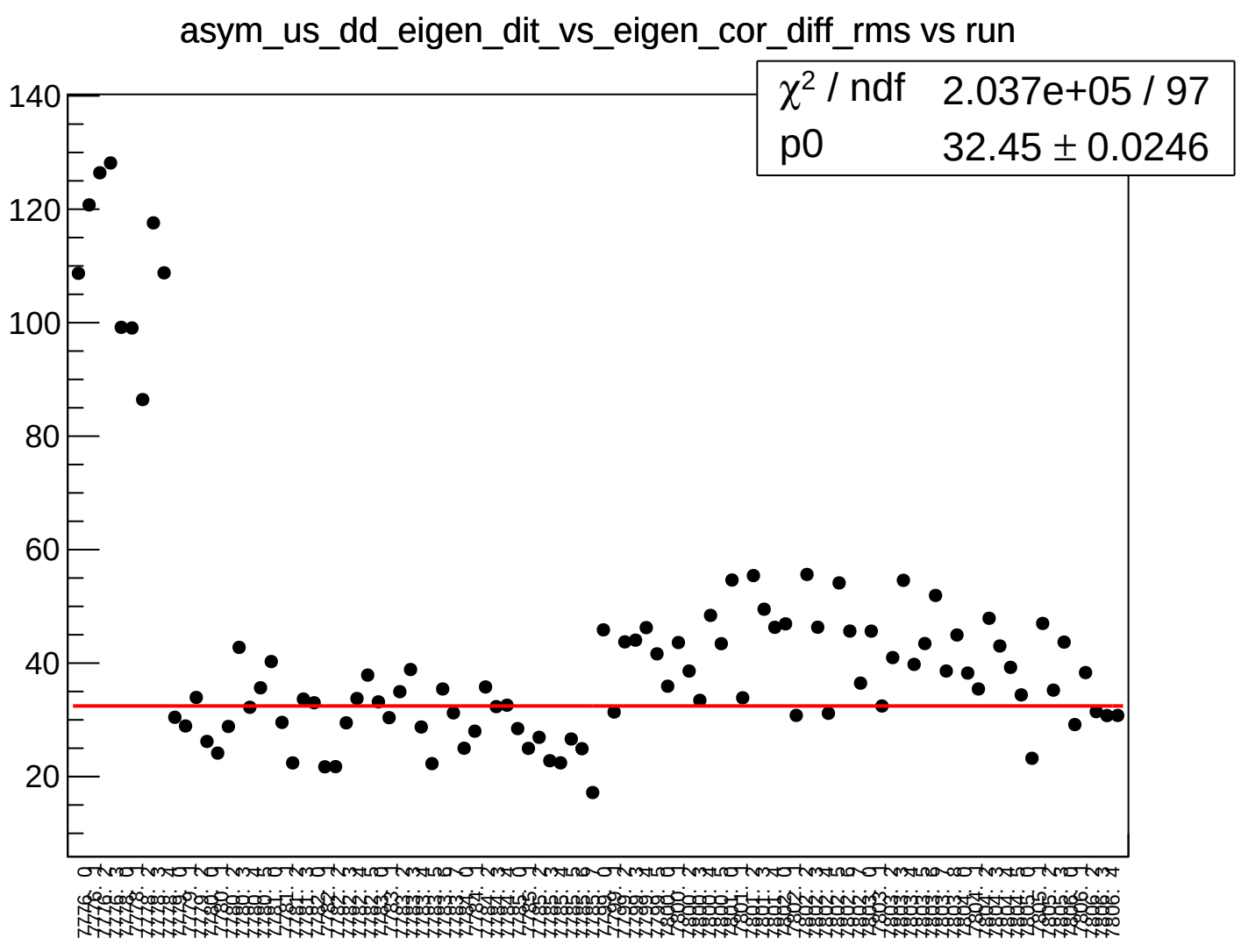

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.08 / 97
p0 0.004896 ± 0.0348
pull
Entries 98
Mean −187.8
Std Dev 0

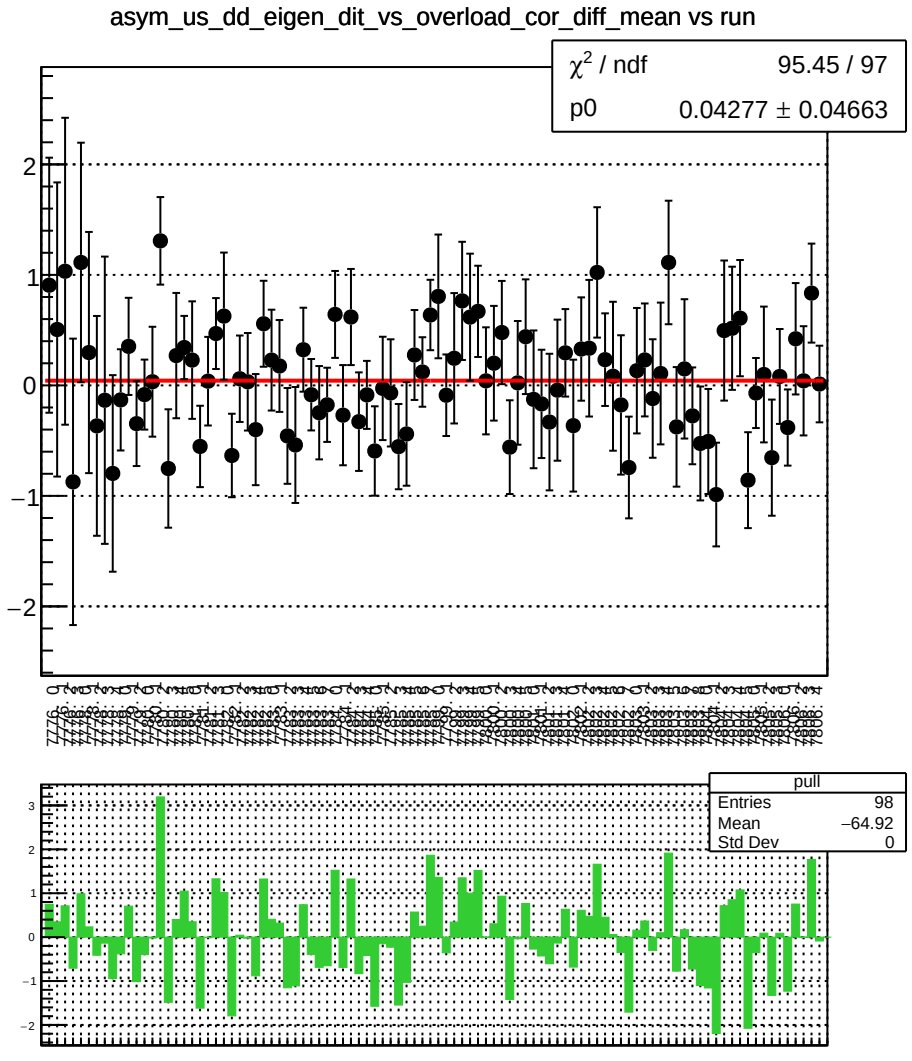

pull1D
Entries 98
Mean 0.01956
Std Dev 0.8809

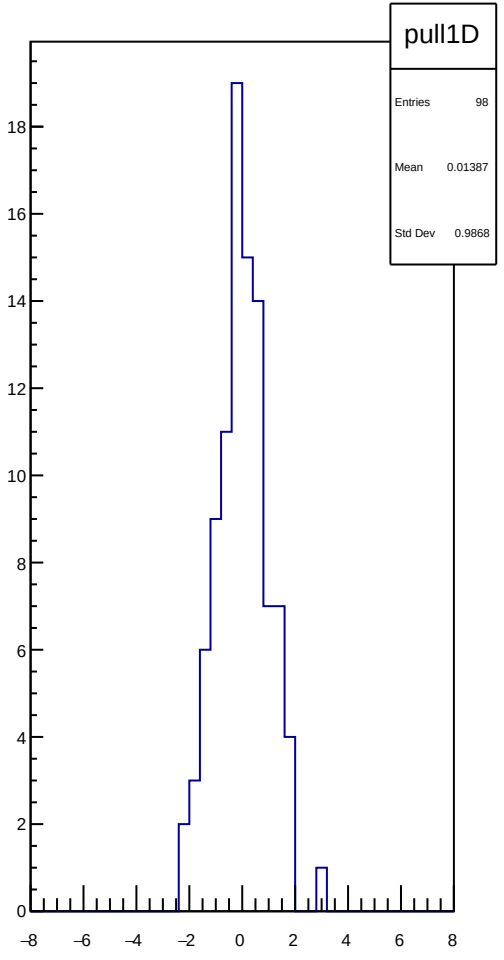

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.037e+05 / 97
p0 32.45 ± 0.0246
140
120
100
80
60
40
20

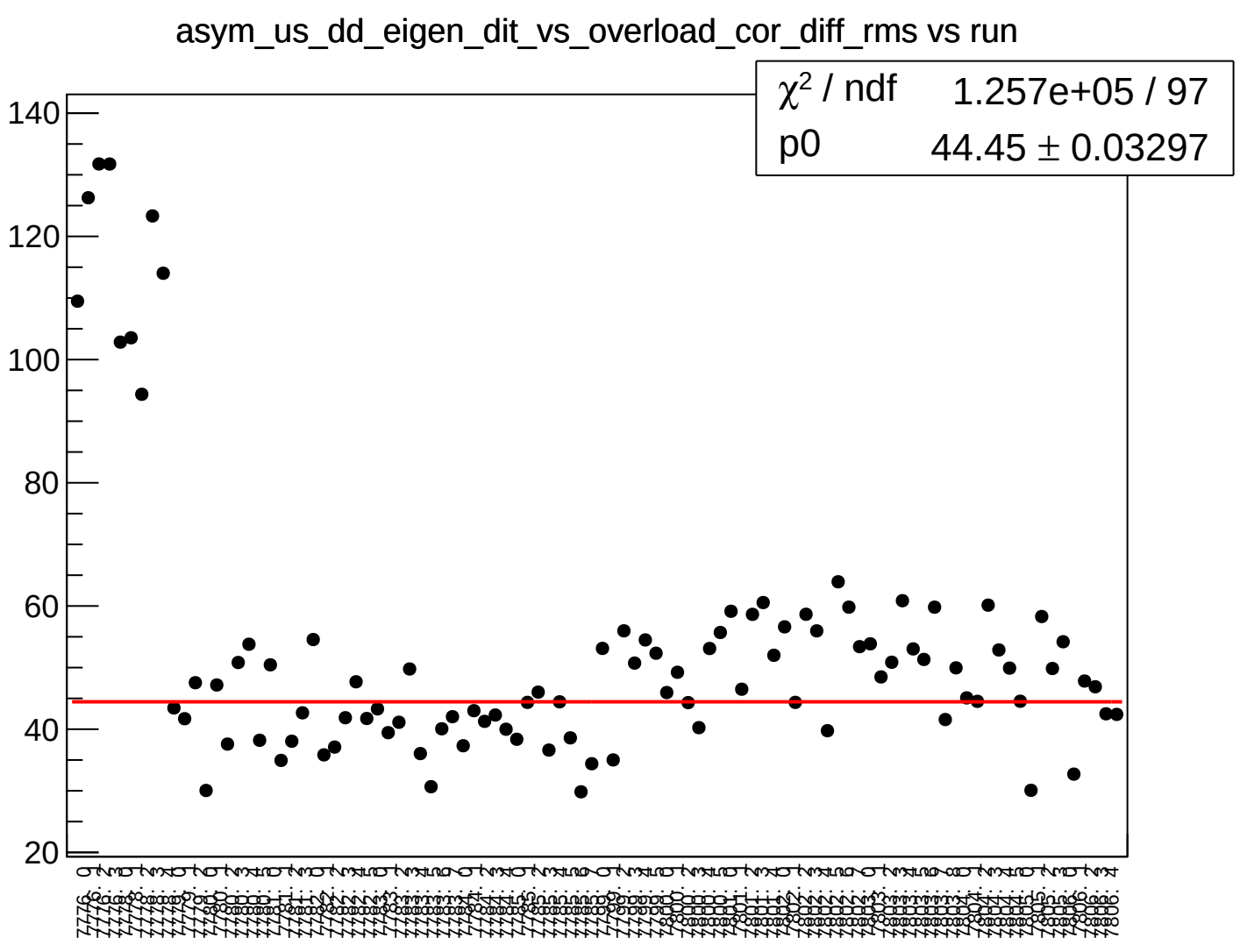

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.08 / 97
p0 0.004896 ± 0.0348
pull
Entries 98
Mean −187.8
Std Dev 0

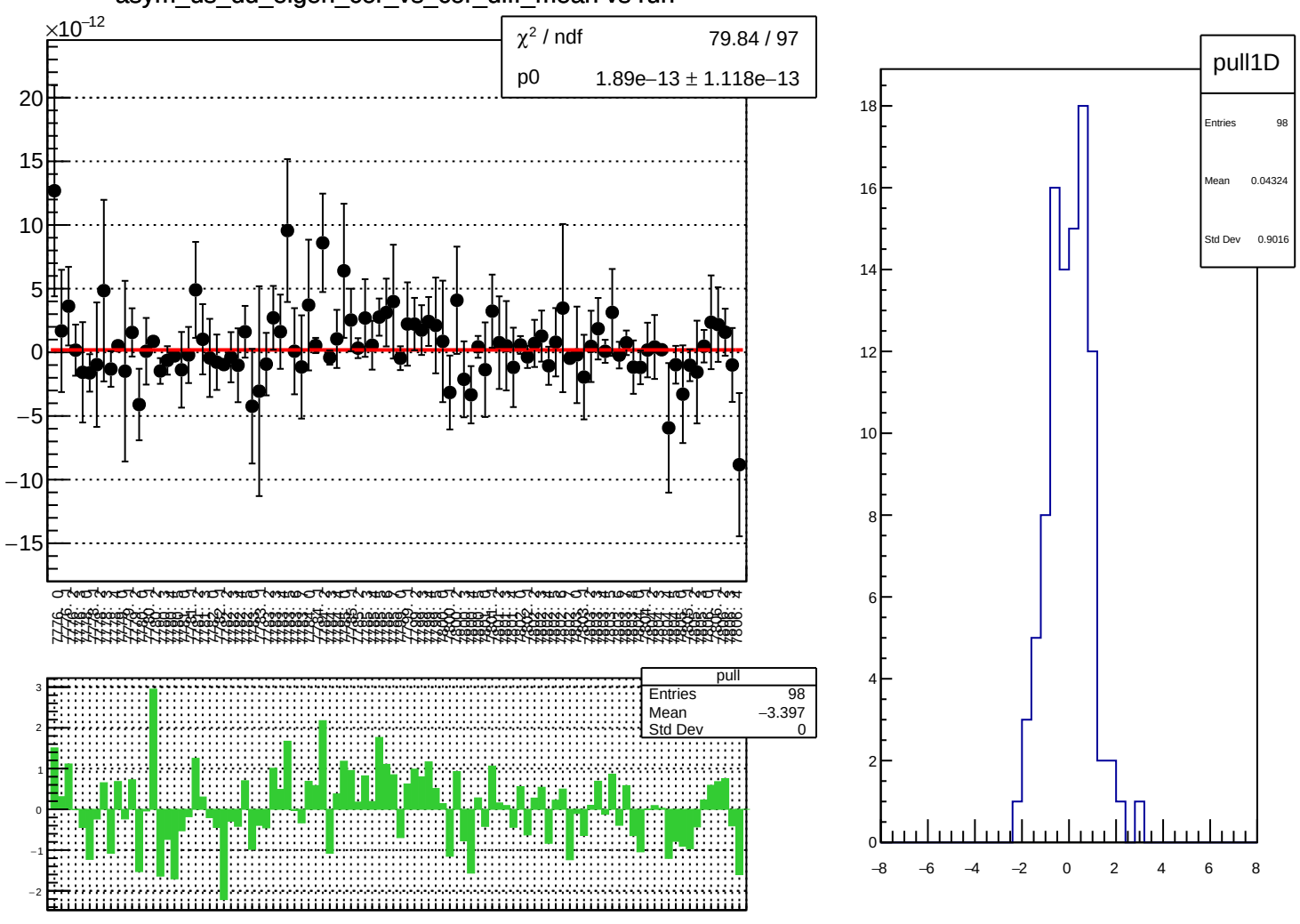

pull1D
Entries 98
Mean 0.01956
Std Dev 0.8809

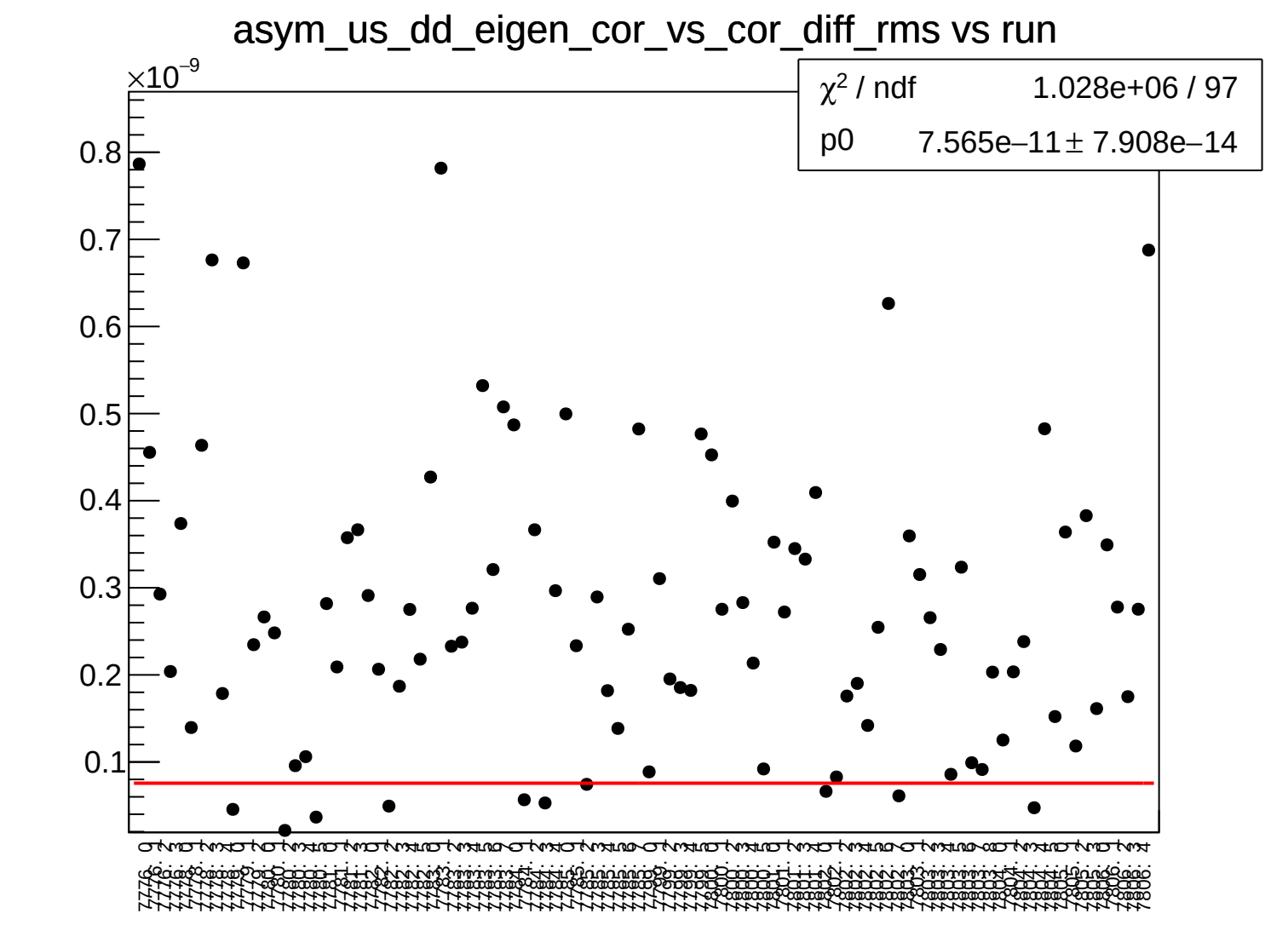

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.037e+05 / 97
p0 32.45 ± 0.0246
140
120
100
80
60
40
20

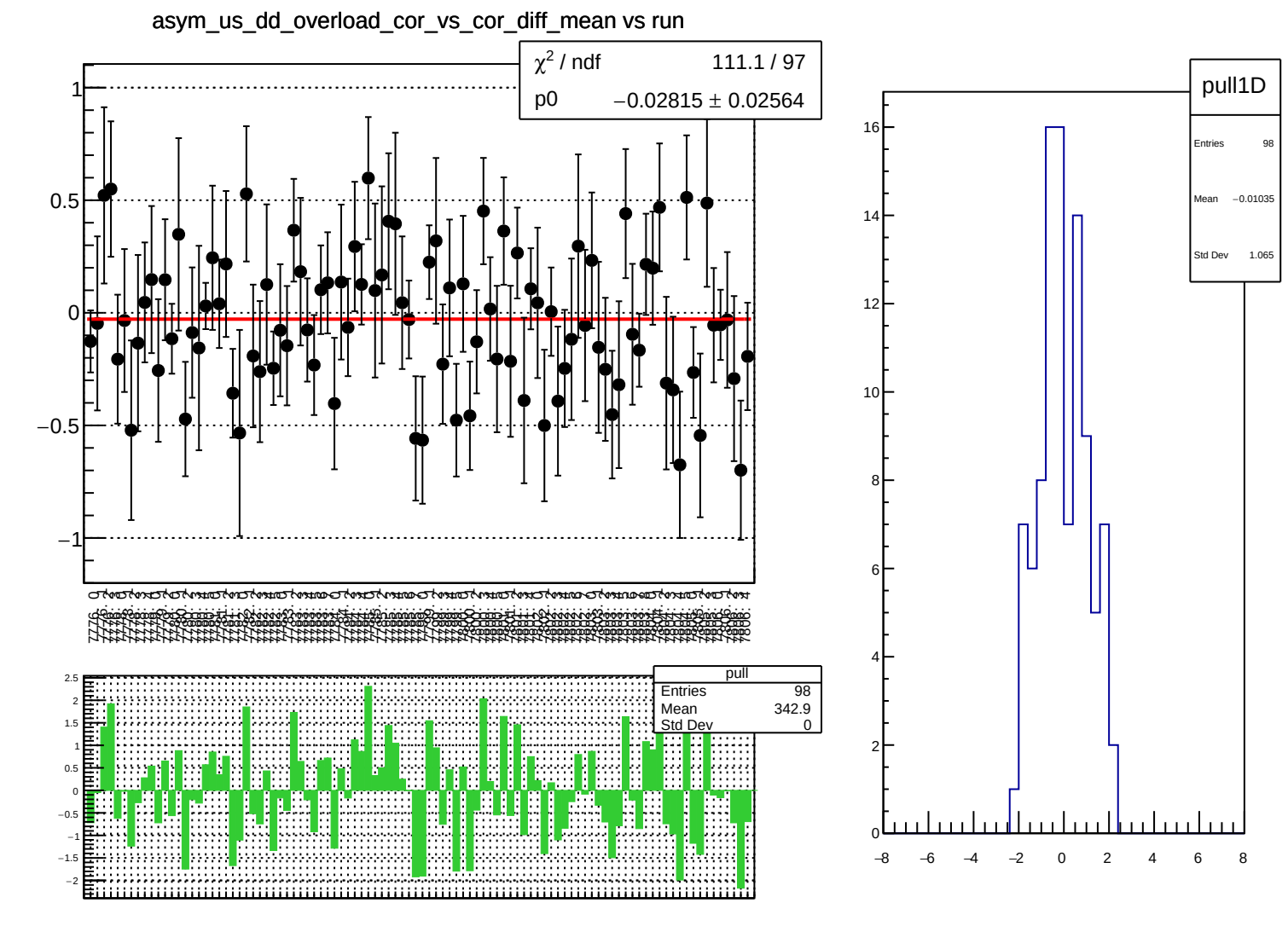

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 95.45 / 97
p0 0.04277 ± 0.04663
pull
Entries 98
Mean −64.92
Std Dev 0

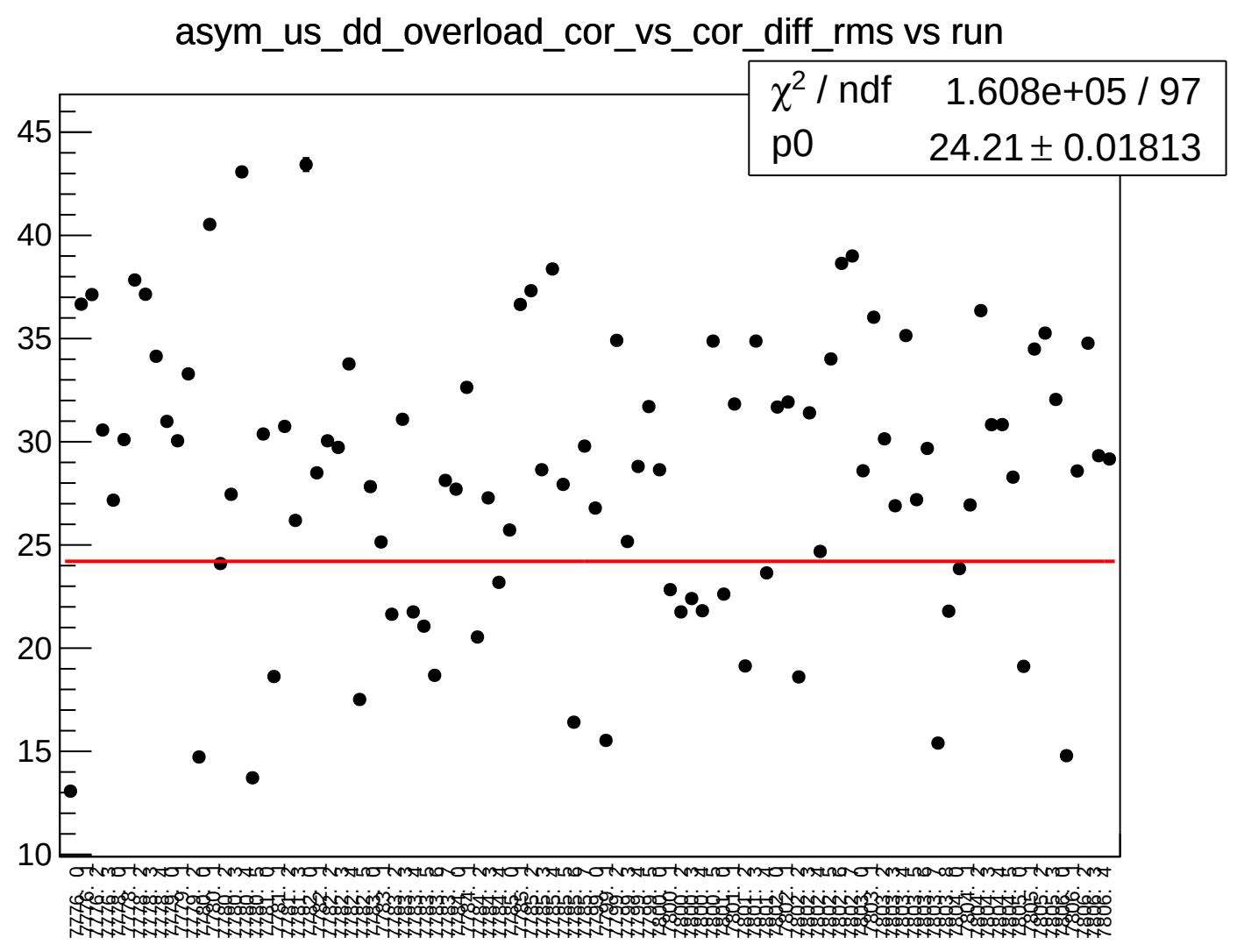

pull1D
Entries 98
Mean 0.01387
Std Dev 0.9868

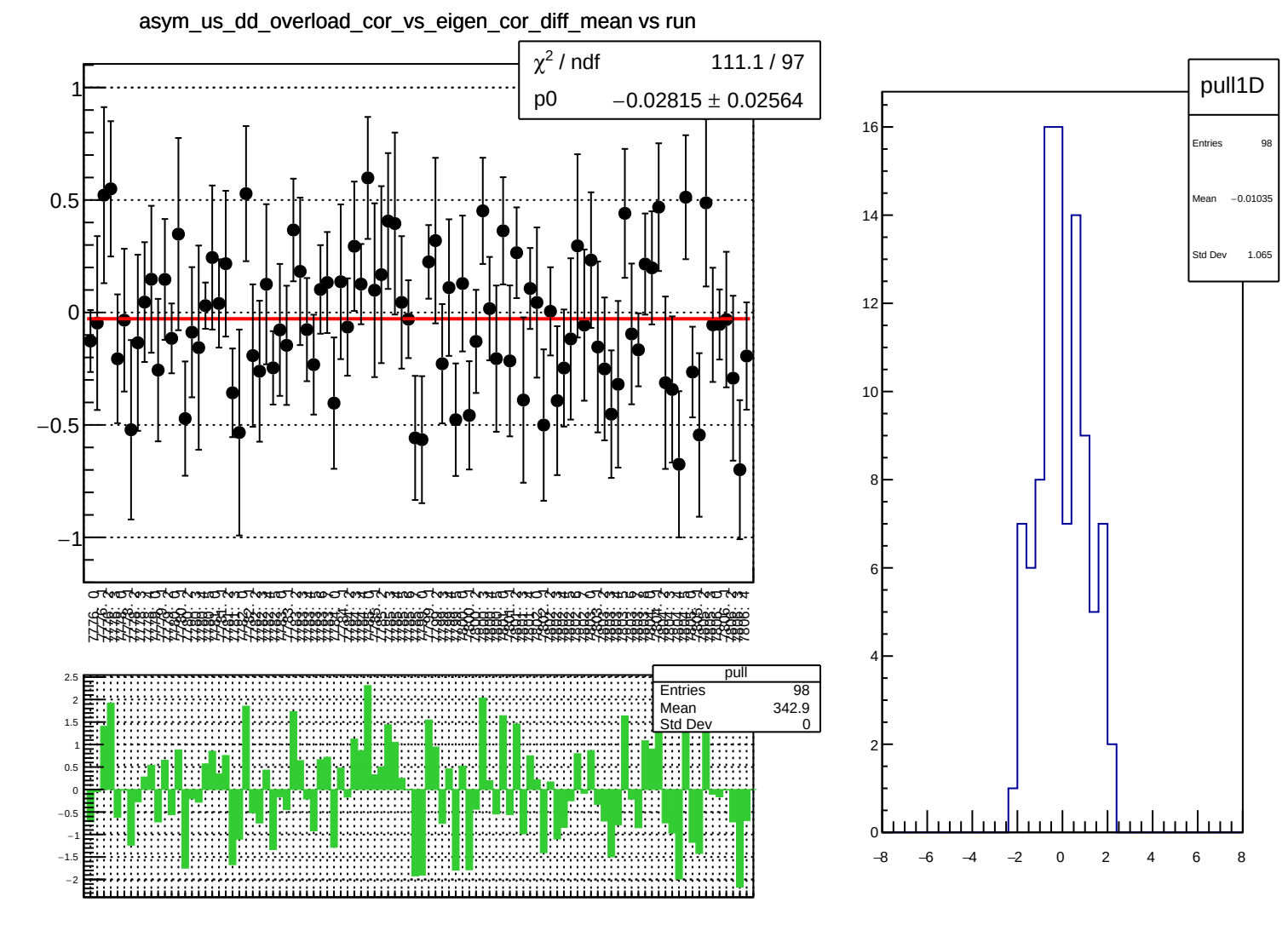

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 97
p0 44.45 ± 0.03297
140
120
100
80
60
40
20

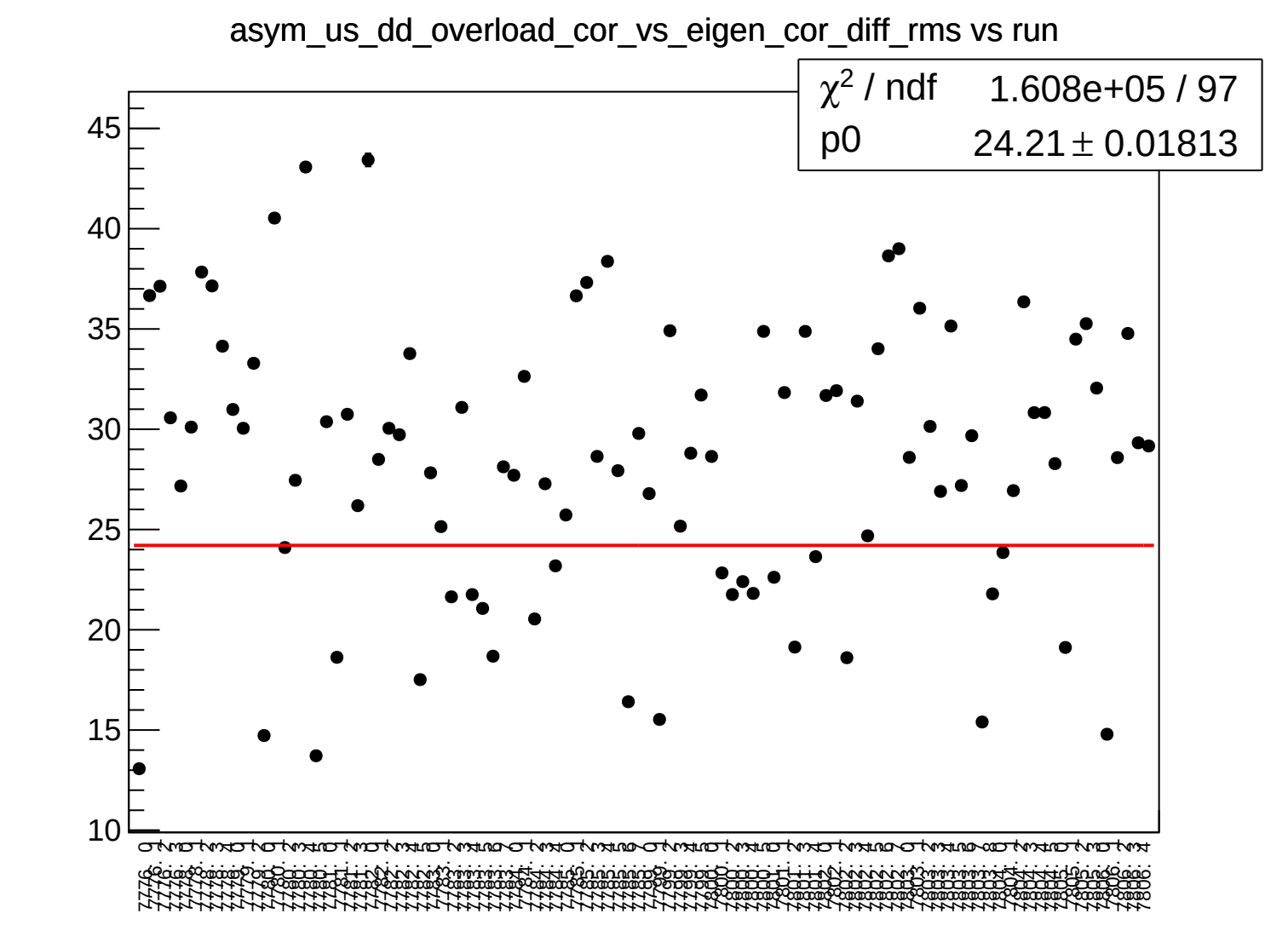

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.84 / 97
p0 1.89e−13 ± 1.118e−13
pull
Entries 98
Mean −3.397
Std Dev 0
pull1D
Entries 98
Mean 0.04324
Std Dev 0.9016

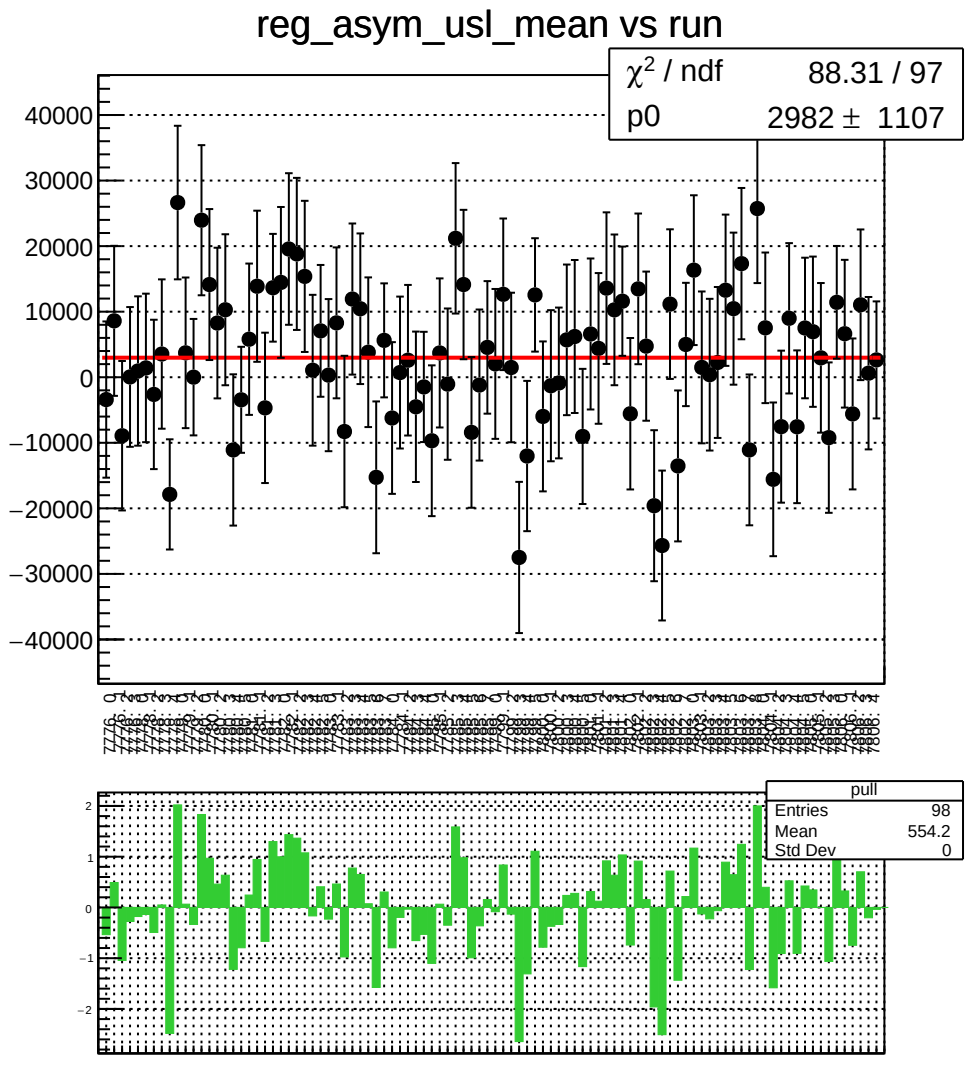

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.028e+06 / 97
p0 7.565e−11 ± 7.908e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

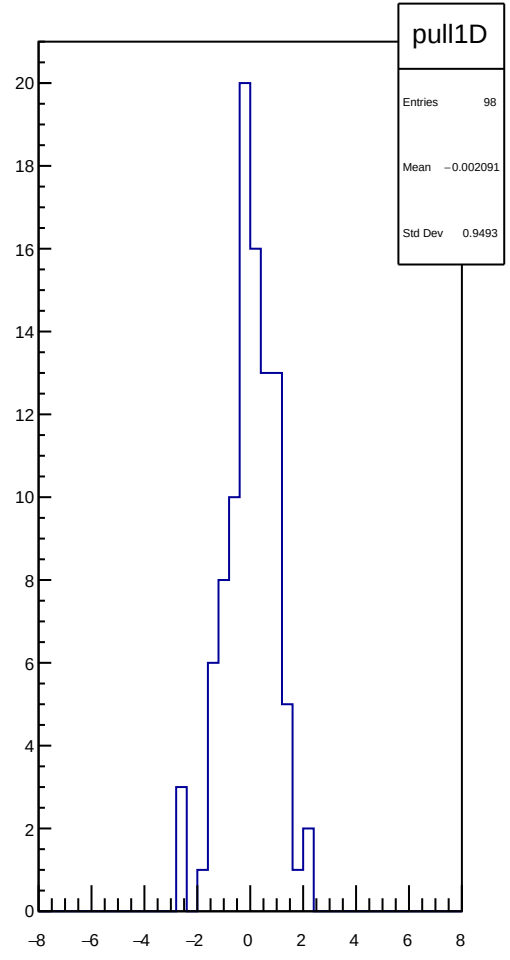

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 111.1 / 97
p0 −0.02815 ± 0.02564
pull
Entries 98
Mean 342.9
Std Dev 0
pull1D
Entries 98
Mean −0.01035
Std Dev 1.065

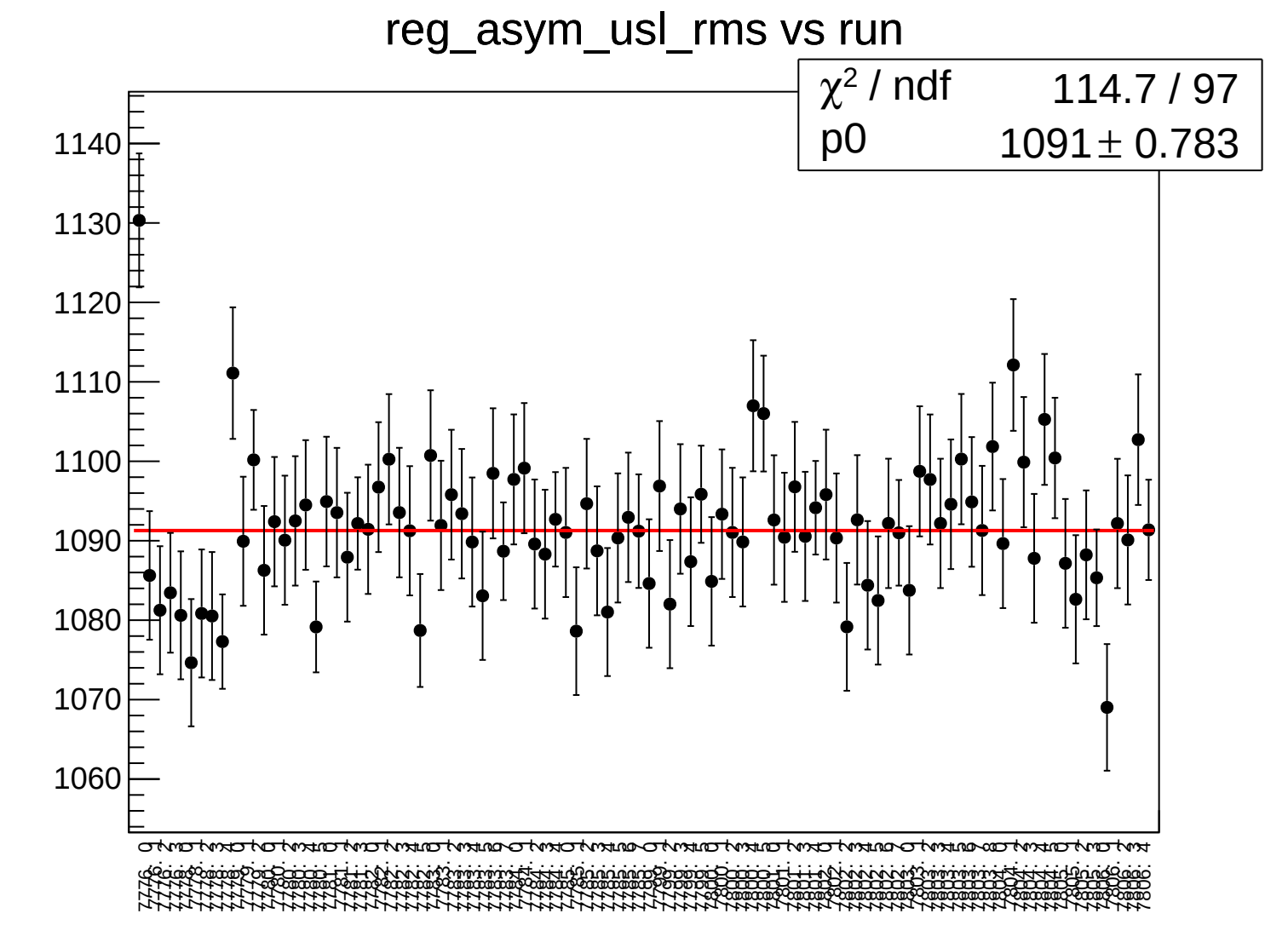

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.608e+05 / 97
p0 24.21 ± 0.01813
45
40
35
30
25
20
15
10

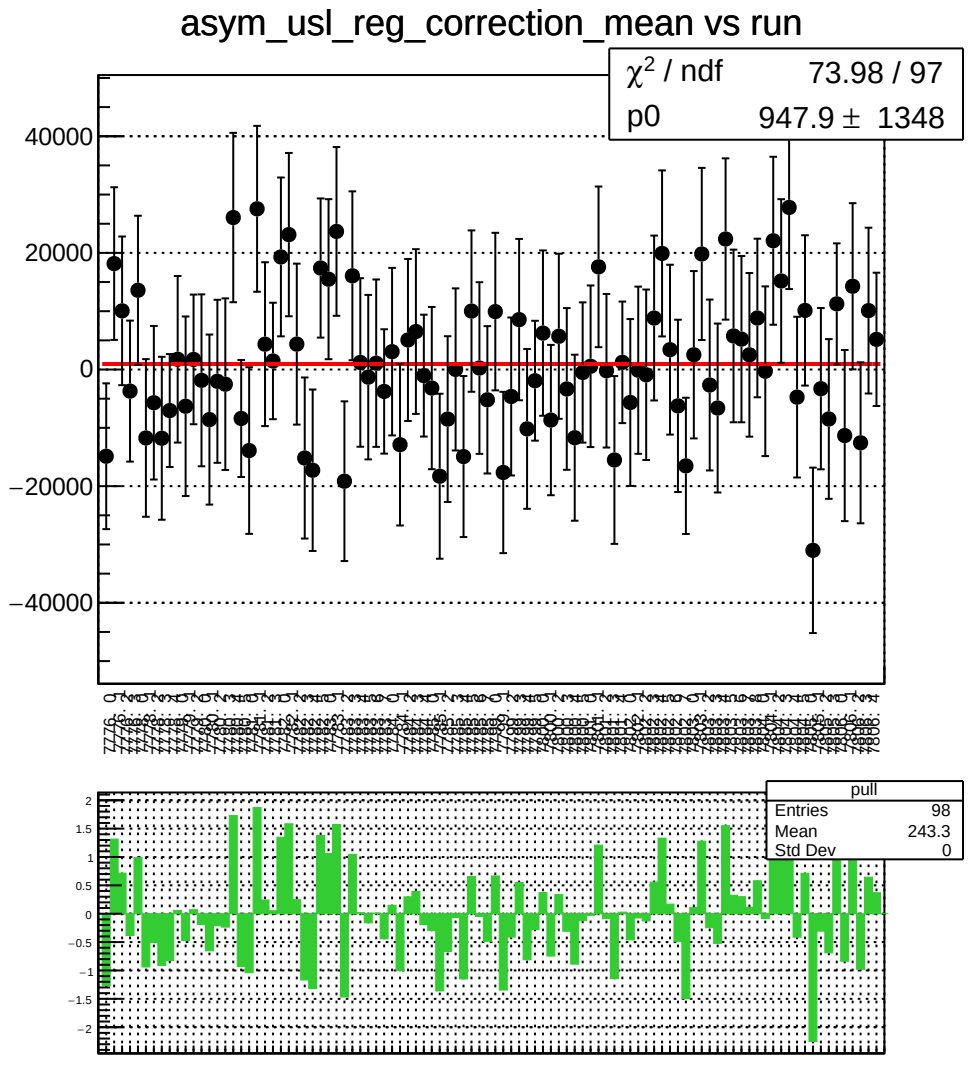

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.1 / 97
p0 −0.02815 ± 0.02564
pull
Entries 98
Mean 342.9
Std Dev 0
pull1D
Entries 98
Mean −0.01035
Std Dev 1.065

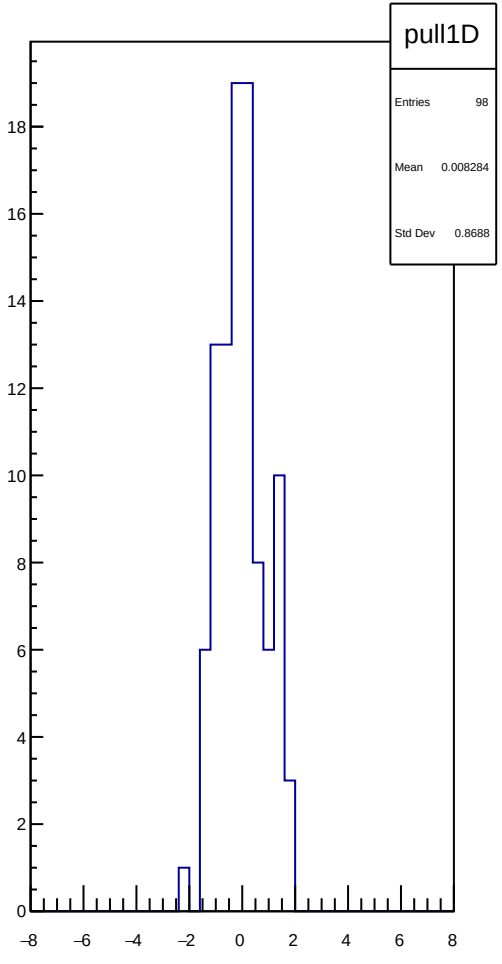

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.608e+05 / 97
p0 24.21 ± 0.01813
45
40
35
30
25
20
15
10

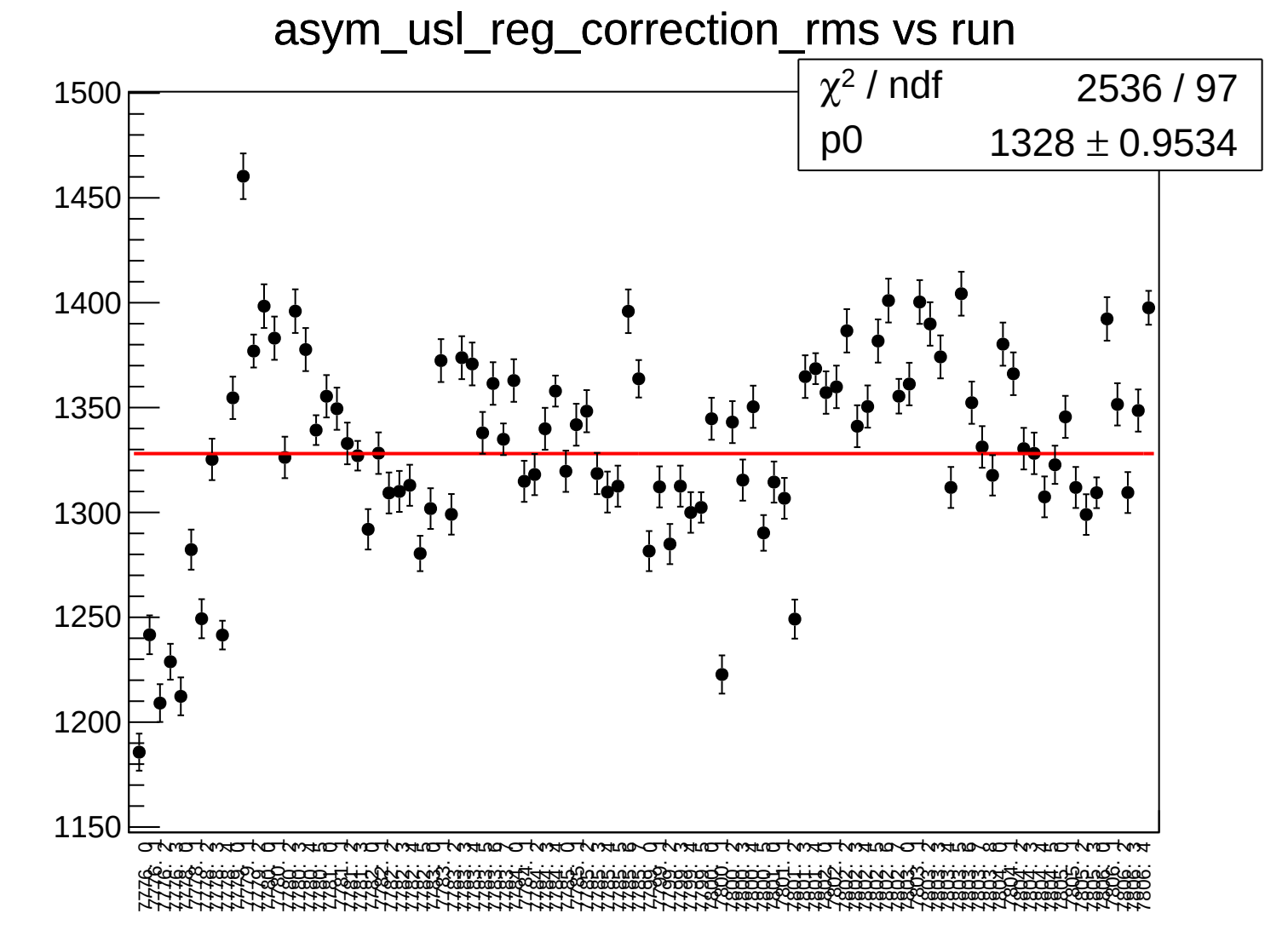

reg_asym_usl_mean vs run
χ² / ndf 88.31 / 97
p0 2982 ± 1107
pull
Entries 98
Mean 554.2
Std Dev 0

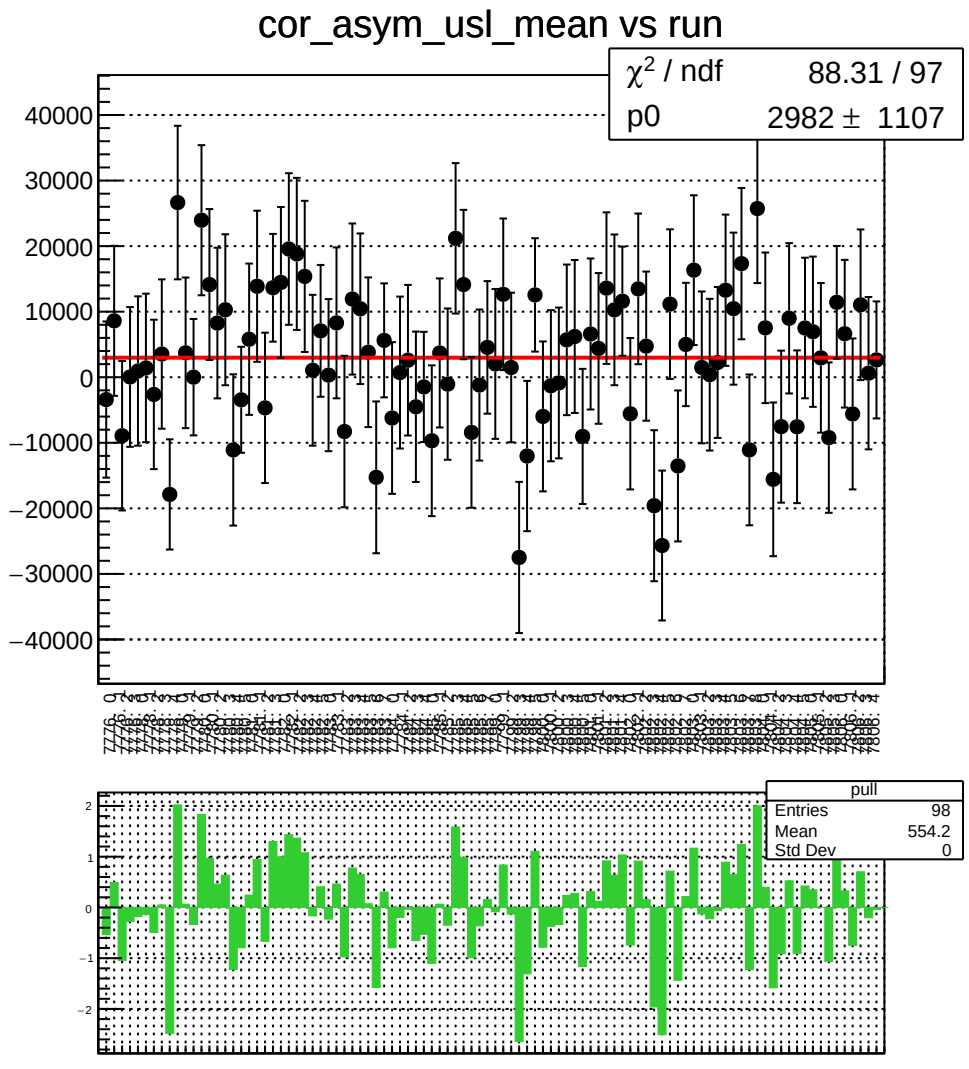

pull1D
Entries 98
Mean −0.002091
Std Dev 0.9493

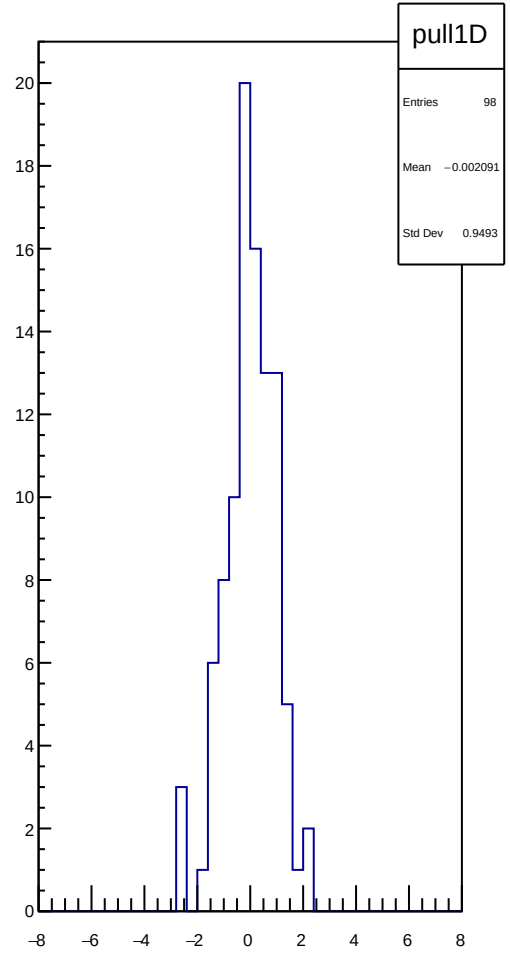

reg_asym_usl_rms vs run
χ² / ndf 114.7 / 97
p0 1091 ± 0.783
1140
1130
1120
1110
1100
1090
1080
1070
1060

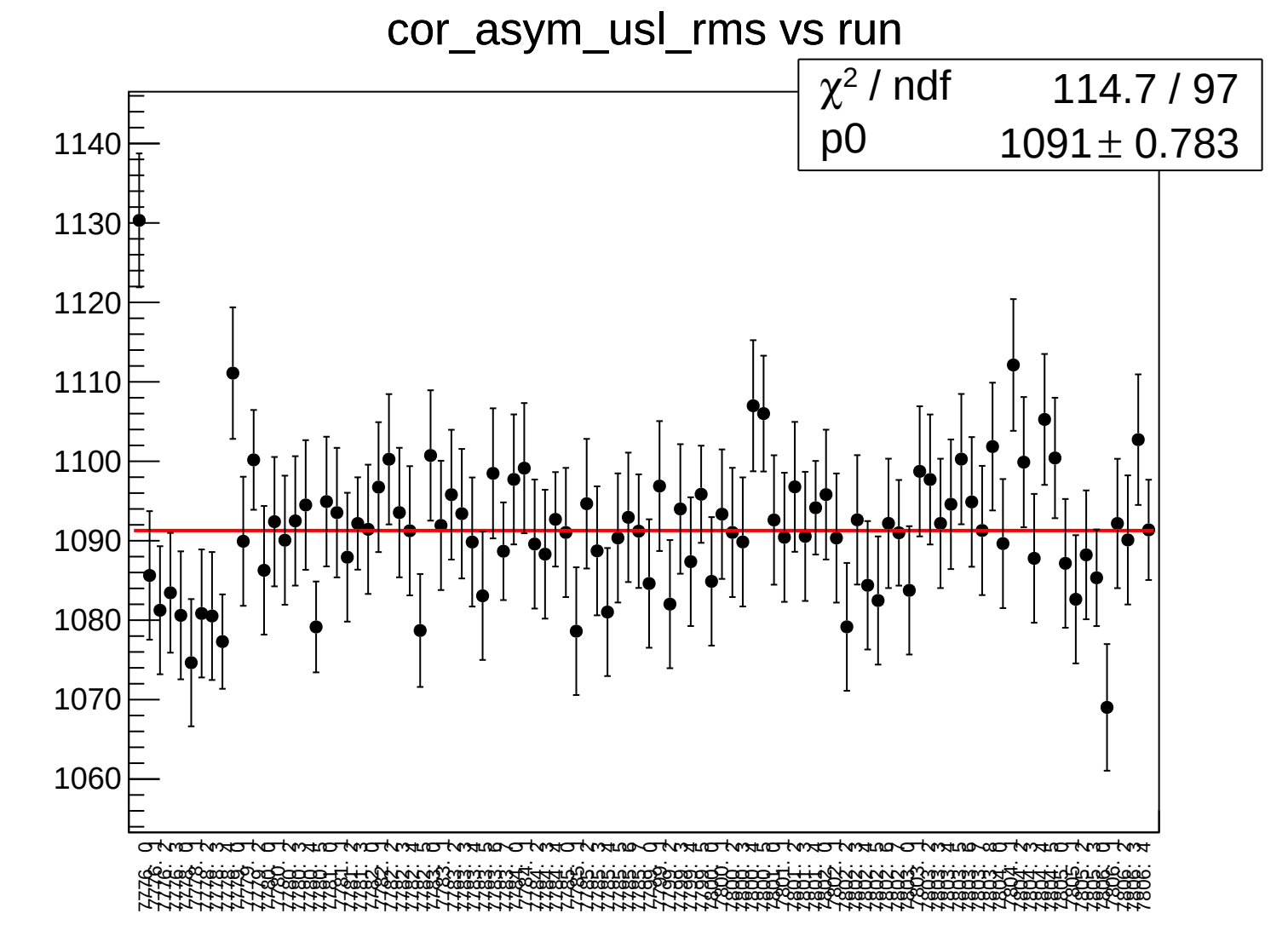

asym_usl_reg_correction_mean vs run
χ² / ndf 73.98 / 97
p0 947.9 ± 1348
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 243.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

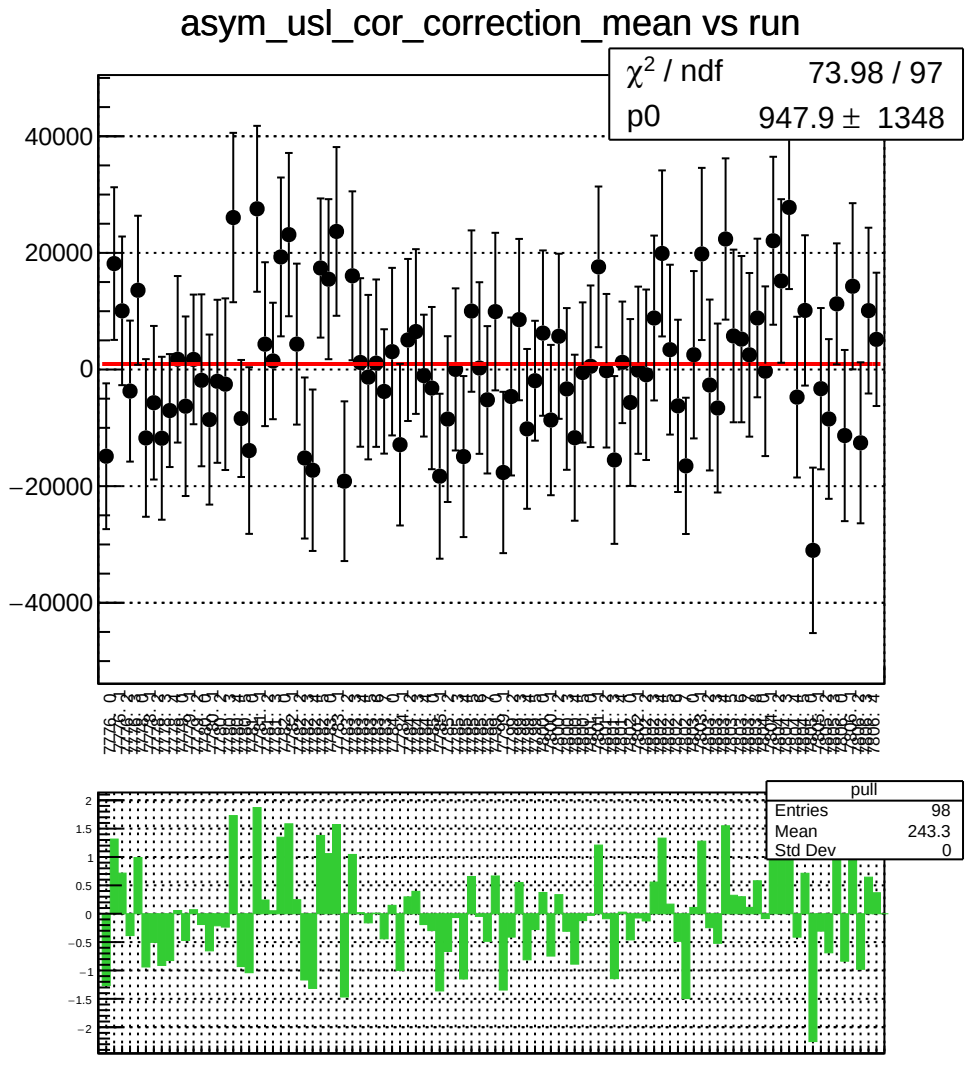

pull1D
Entries 98
Mean 0.008284
Std Dev 0.8688
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

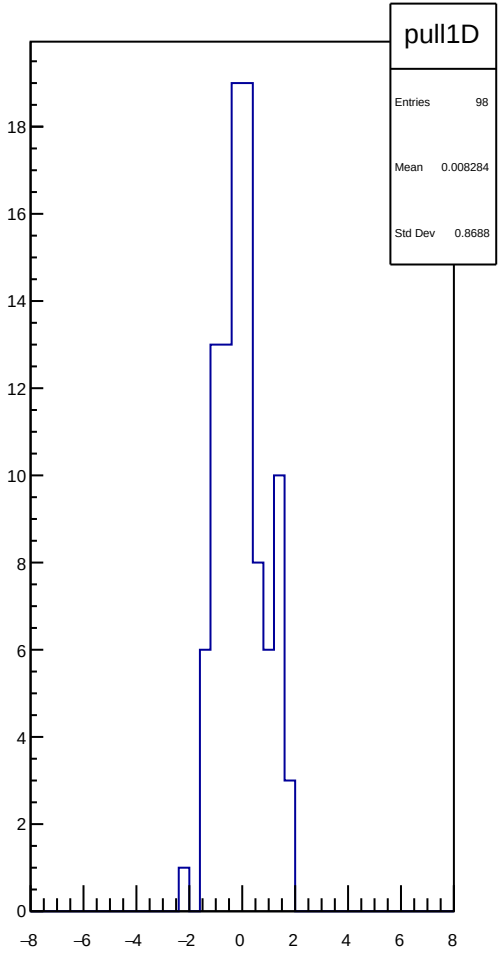

asym_usl_reg_correction_rms vs run
χ² / ndf 2536 / 97
p0 1328 ± 0.9534
1500
1450
1400
1350
1300
1250
1200
1150

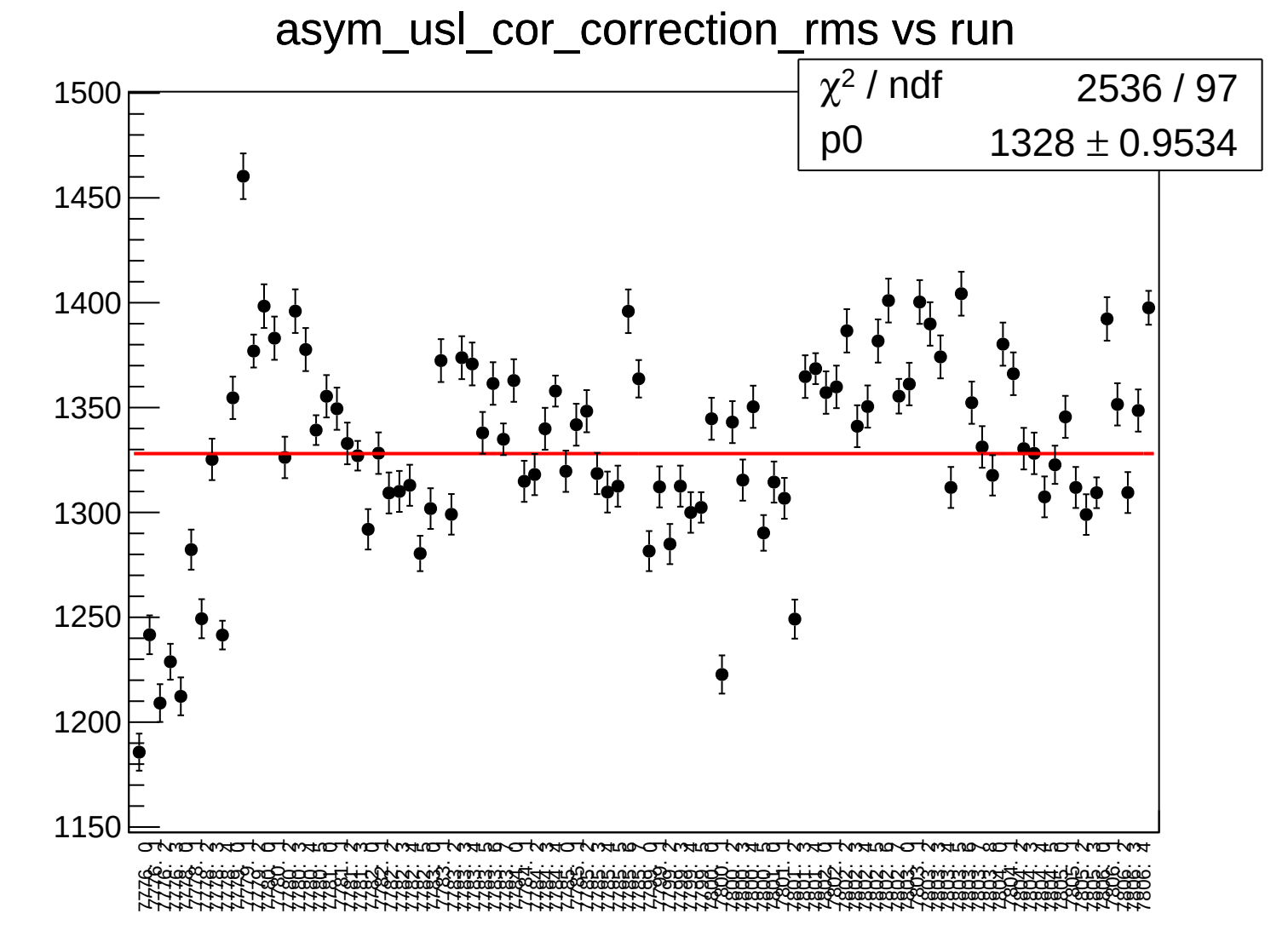

cor_asym_usl_mean vs run
χ² / ndf 88.31 / 97
p0 2982 ± 1107
pull
Entries 98
Mean 554.2
Std Dev 0

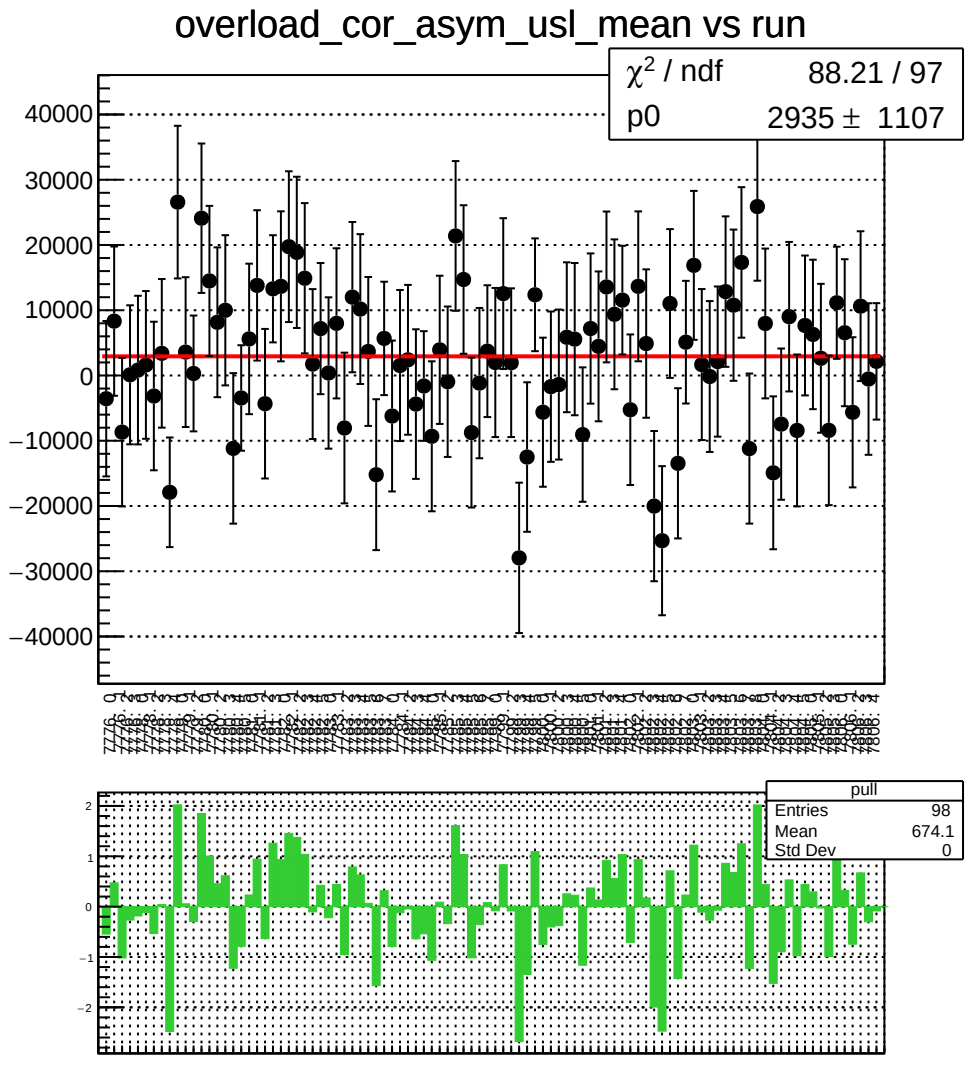

pull1D
Entries 98
Mean −0.002091
Std Dev 0.9493

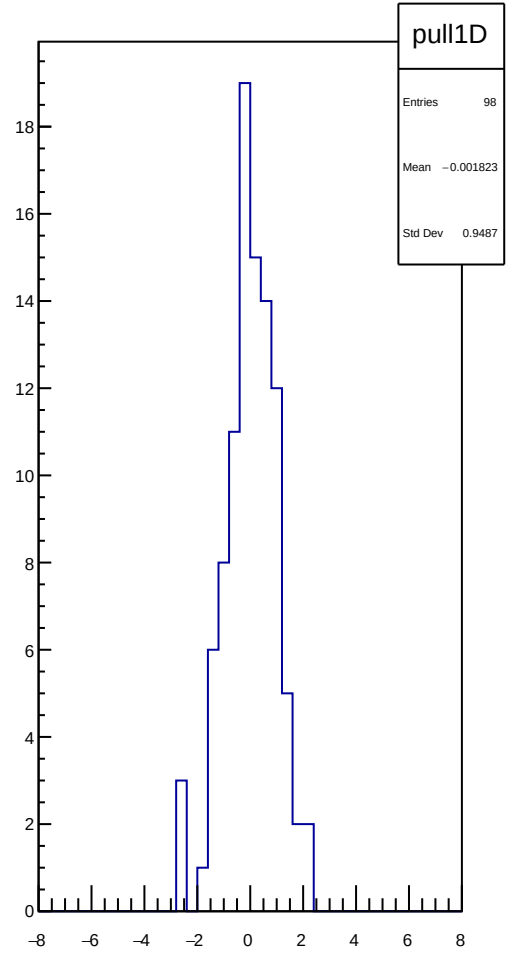

cor_asym_usl_rms vs run
χ² / ndf 114.7 / 97
p0 1091 ± 0.783
1140
1130
1120
1110
1100
1090
1080
1070
1060

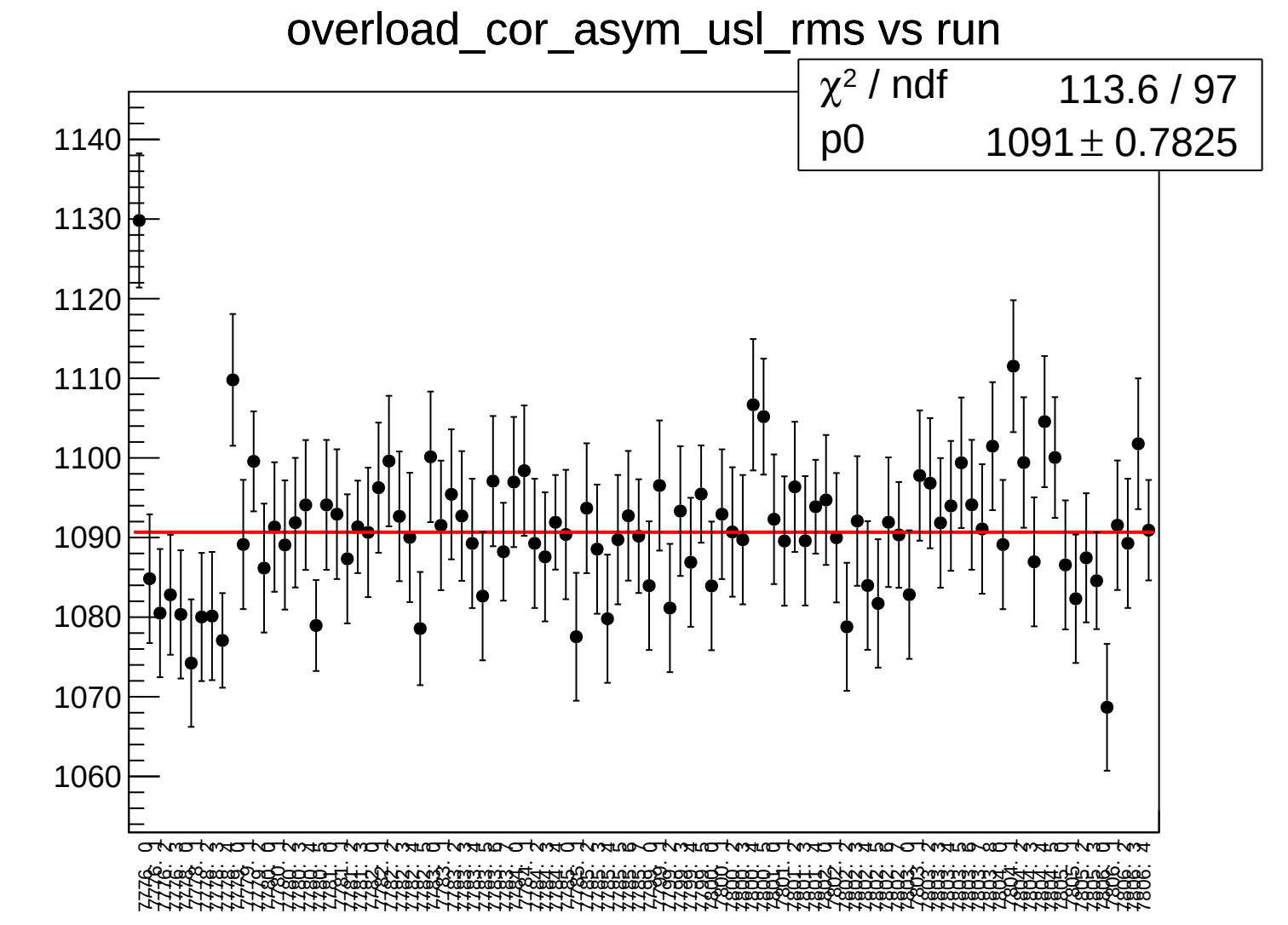

asym_usl_cor_correction_mean vs run
χ² / ndf 73.98 / 97
p0 947.9 ± 1348
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 243.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

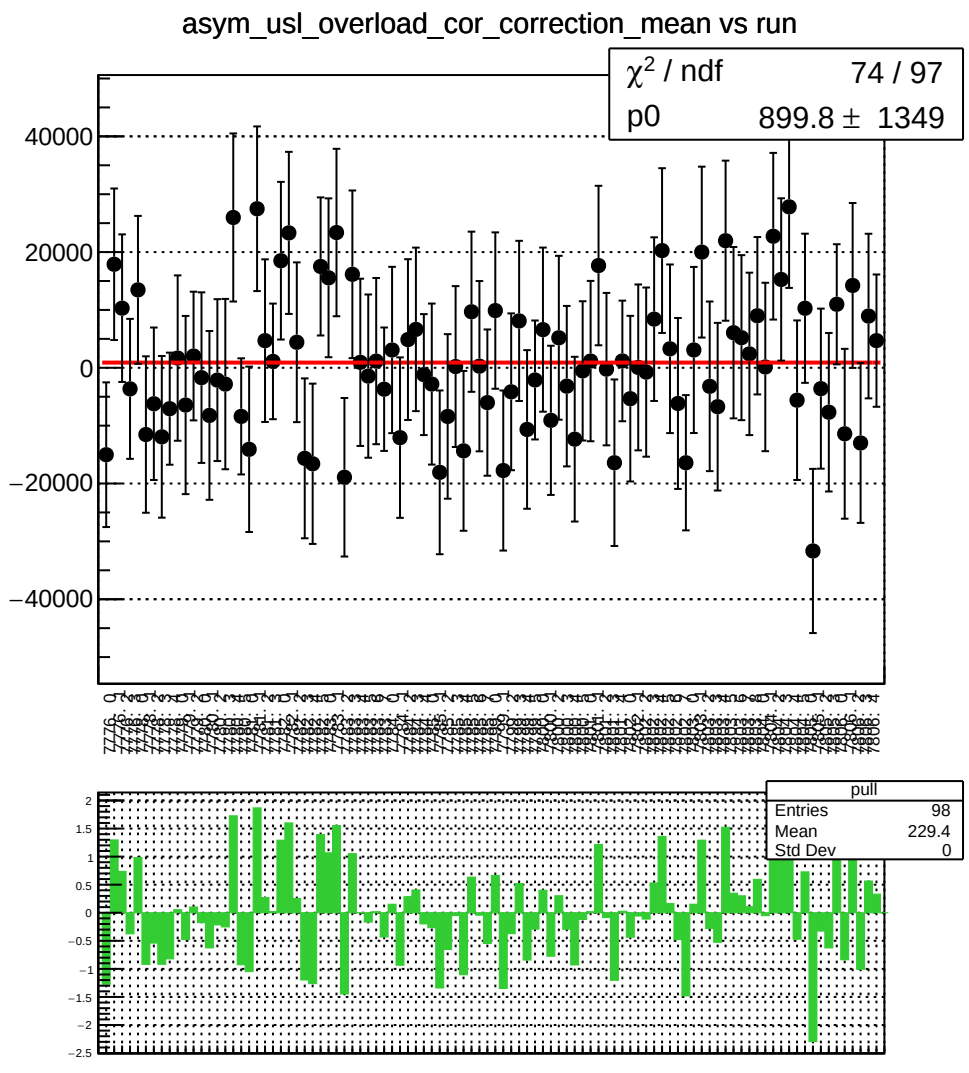

pull1D
Entries 98
Mean 0.008284
Std Dev 0.8688
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

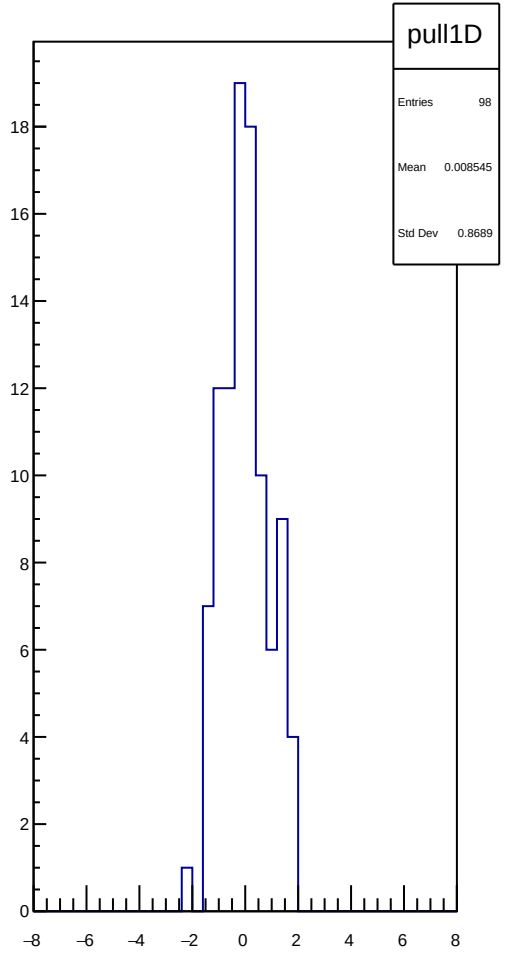

asym_usl_cor_correction_rms vs run
χ² / ndf 2536 / 97
p0 1328 ± 0.9534
1500
1450
1400
1350
1300
1250
1200
1150

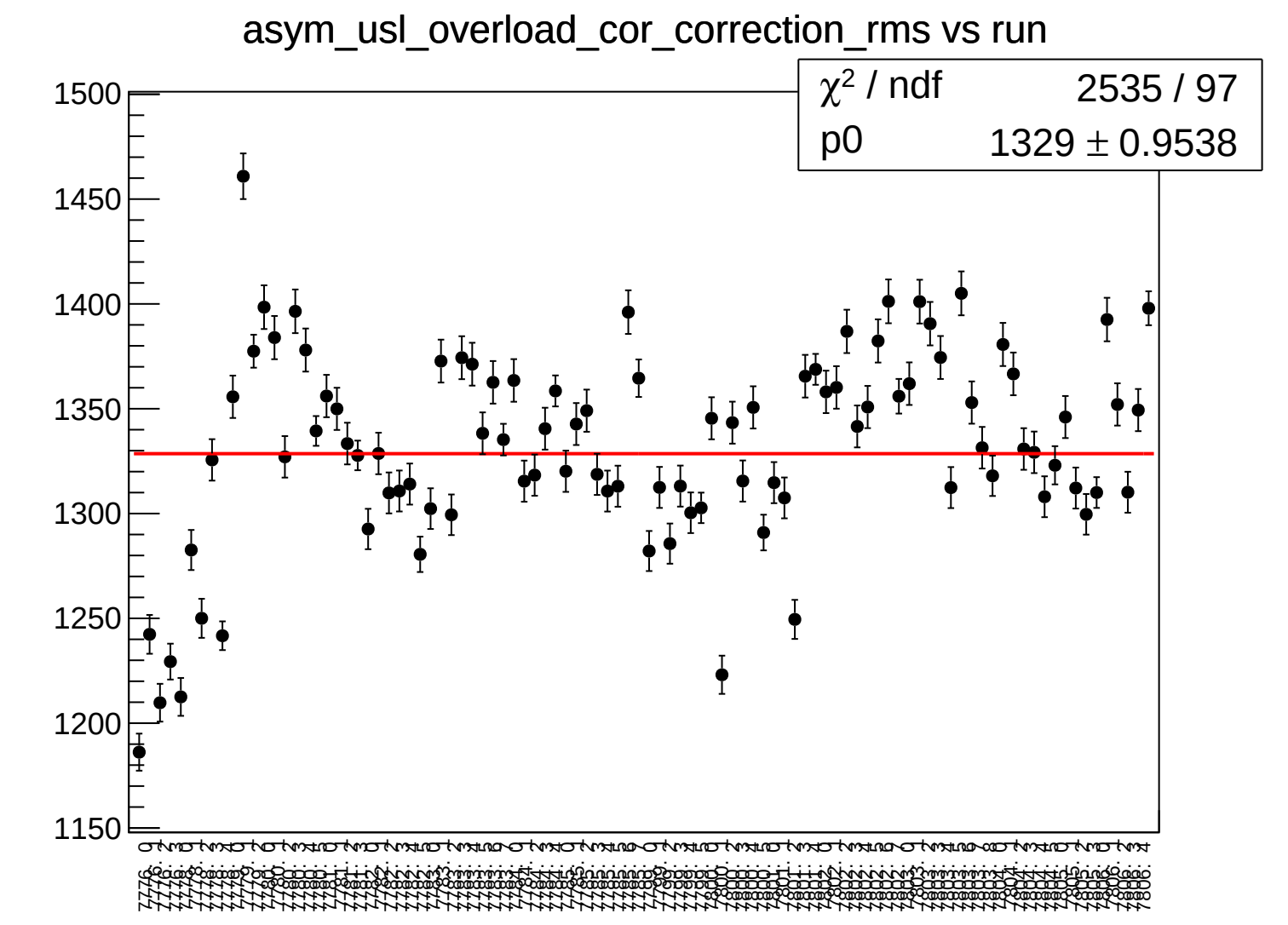

overload_cor_asym_usl_mean vs run
χ² / ndf 88.21 / 97
p0 2935 ± 1107
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 674.1
Std Dev 0
2
1
0
−1
−2

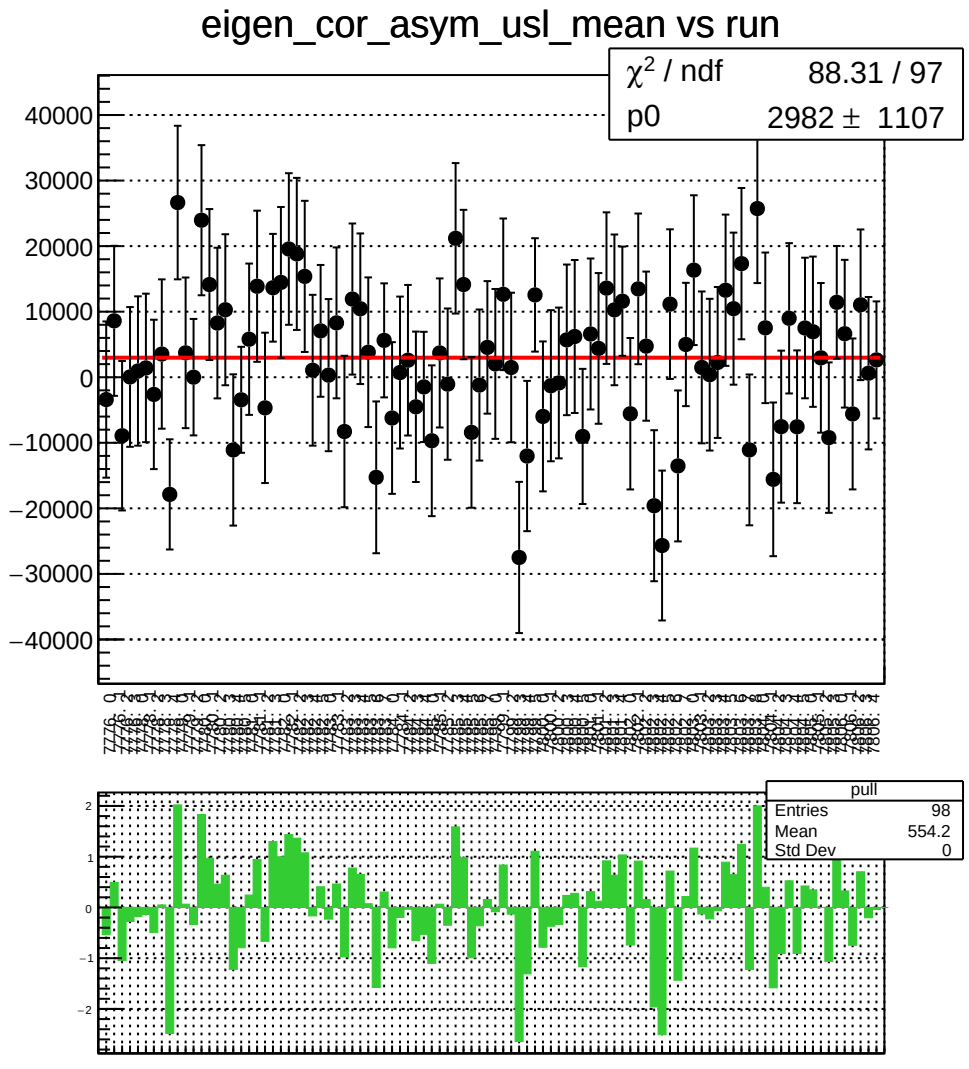

pull1D
Entries 98
Mean −0.001823
Std Dev 0.9487
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

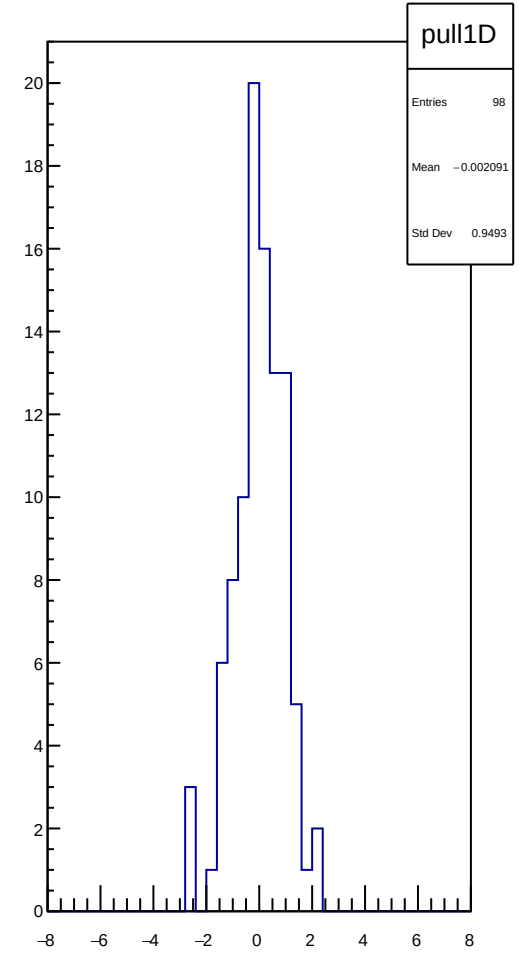

overload_cor_asym_usl_rms vs run
χ² / ndf 113.6 / 97
p0 1091 ± 0.7825
1140
1130
1120
1110
1100
1090
1080
1070
1060

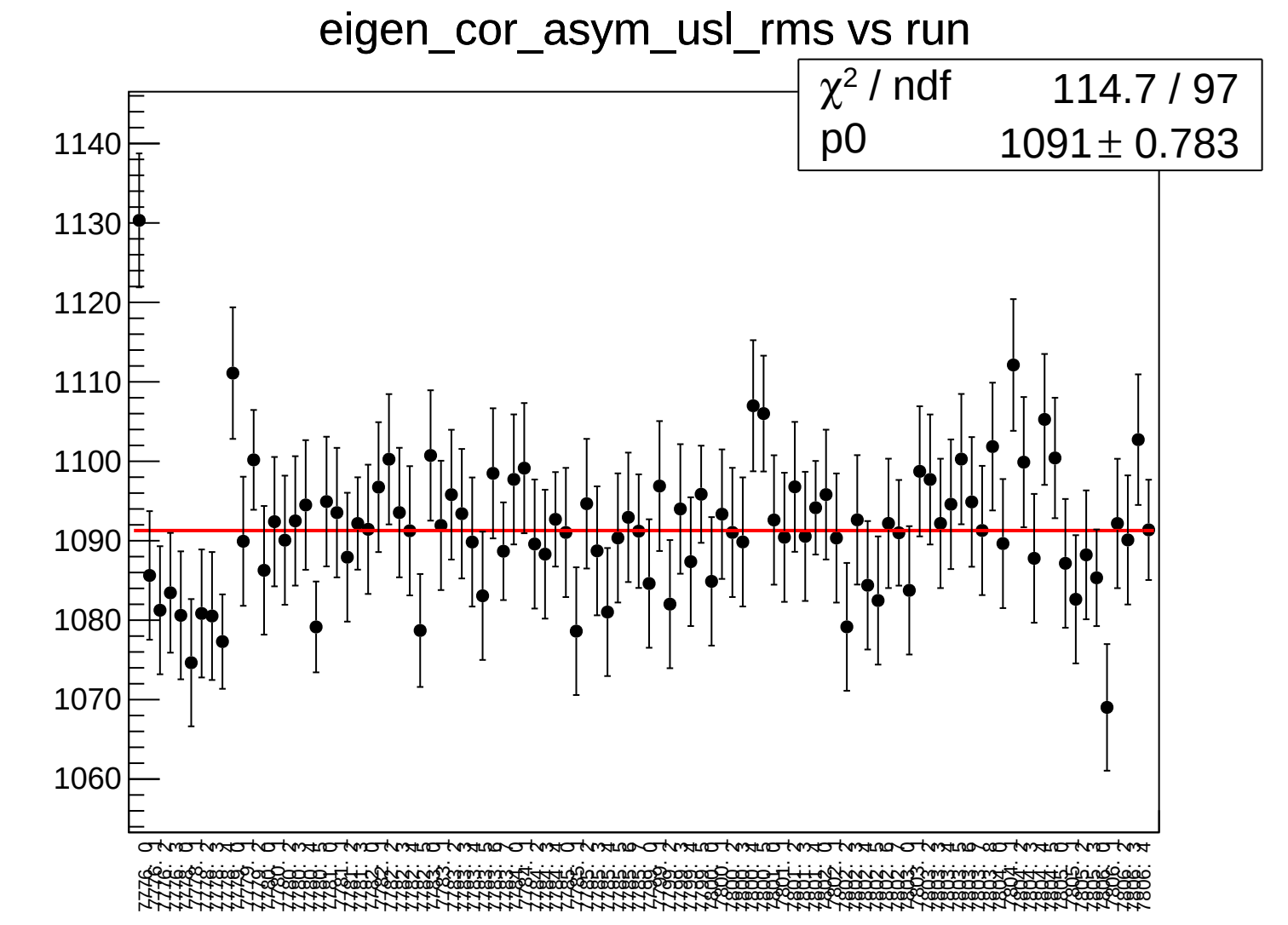

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 74 / 97
p0 899.8 ± 1349
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 229.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

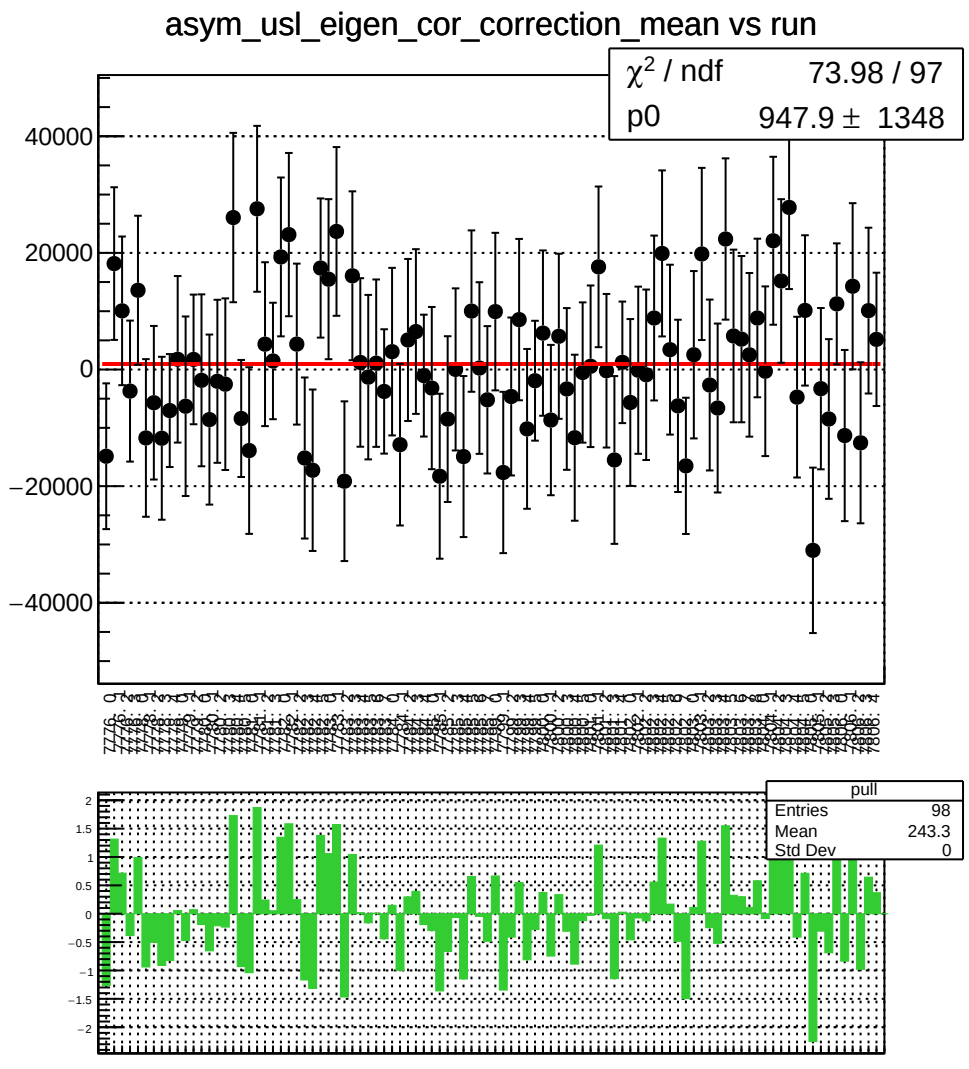

pull1D
Entries 98
Mean 0.008545
Std Dev 0.8689
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

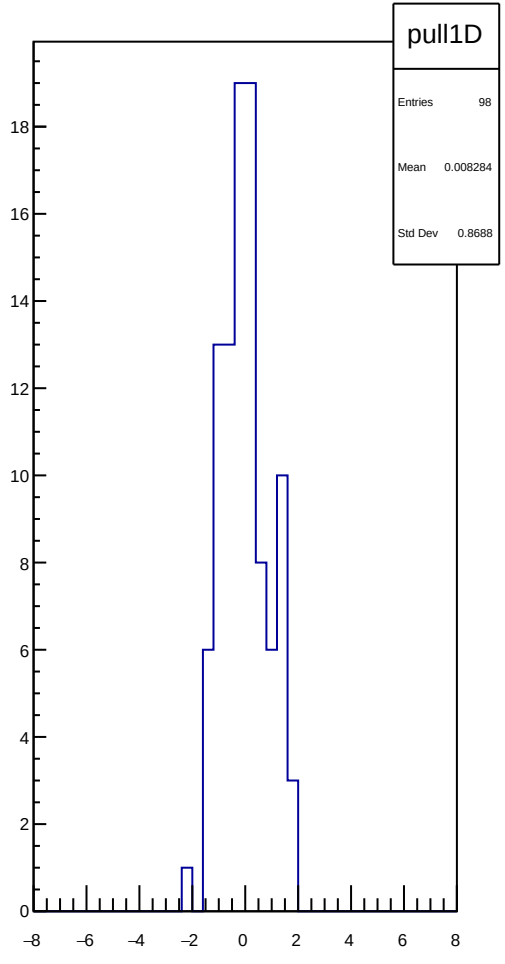

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 2535 / 97
p0 1329 ± 0.9538
1500
1450
1400
1350
1300
1250
1200
1150

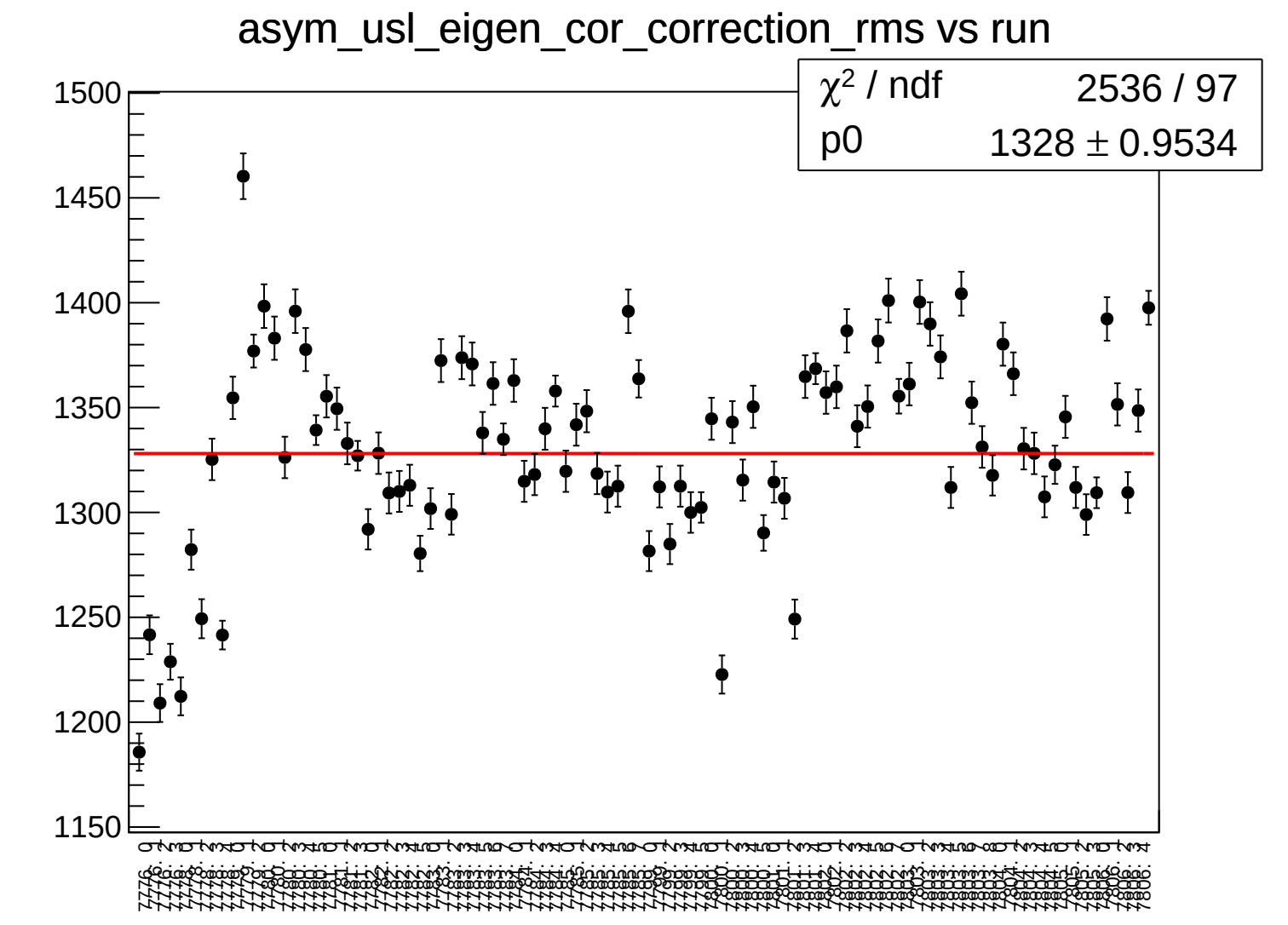

eigen_cor_asym_usl_mean vs run
χ² / ndf 88.31 / 97
p0 2982 ± 1107
pull
Entries 98
Mean 554.2
Std Dev 0

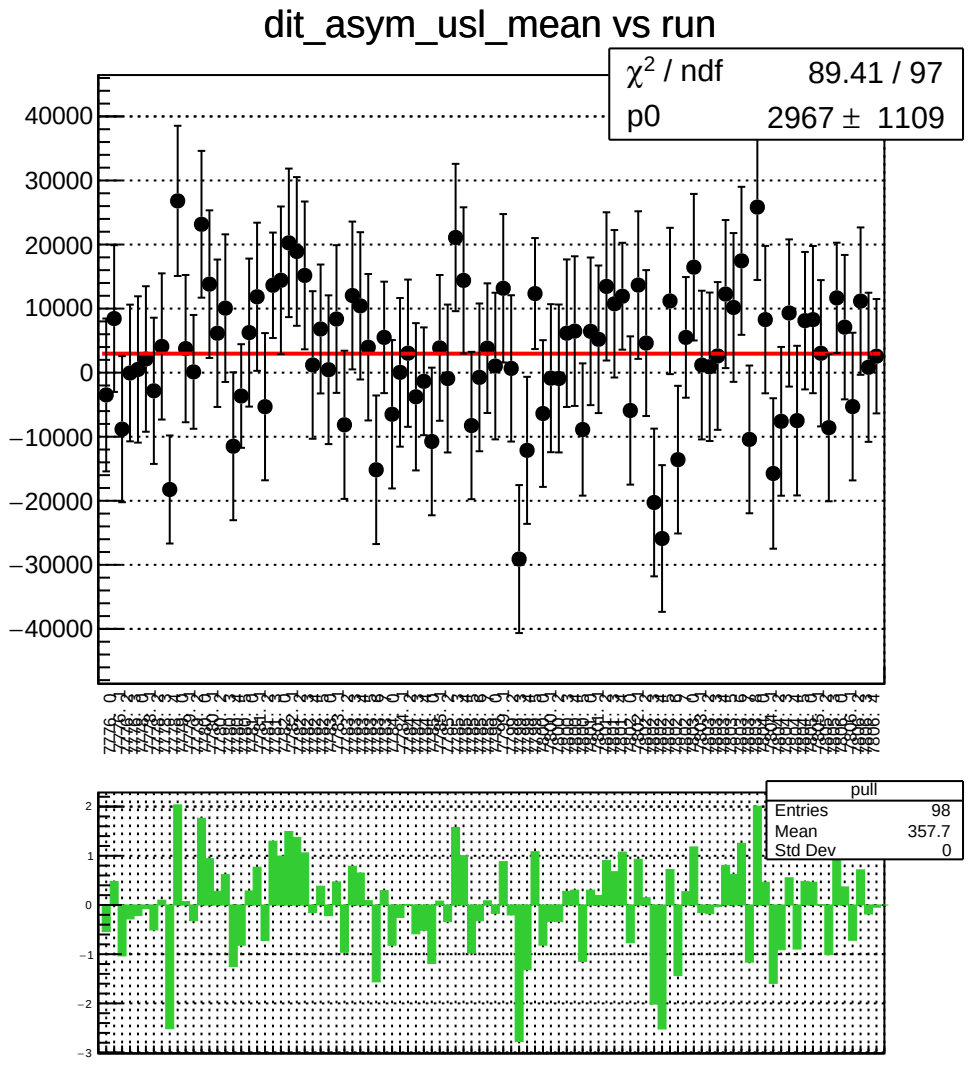

pull1D
Entries 98
Mean −0.002091
Std Dev 0.9493

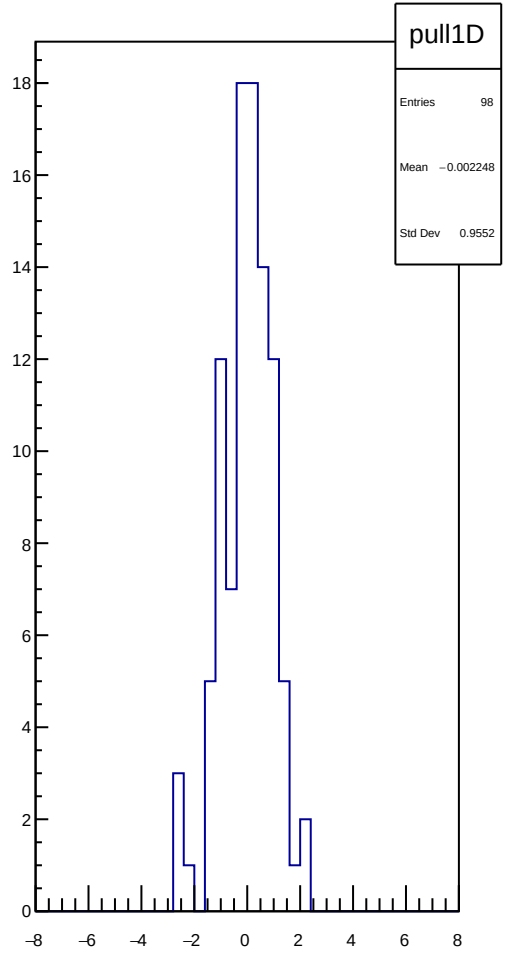

eigen_cor_asym_usl_rms vs run
χ² / ndf 114.7 / 97
p0 1091 ± 0.783
1140
1130
1120
1110
1100
1090
1080
1070
1060

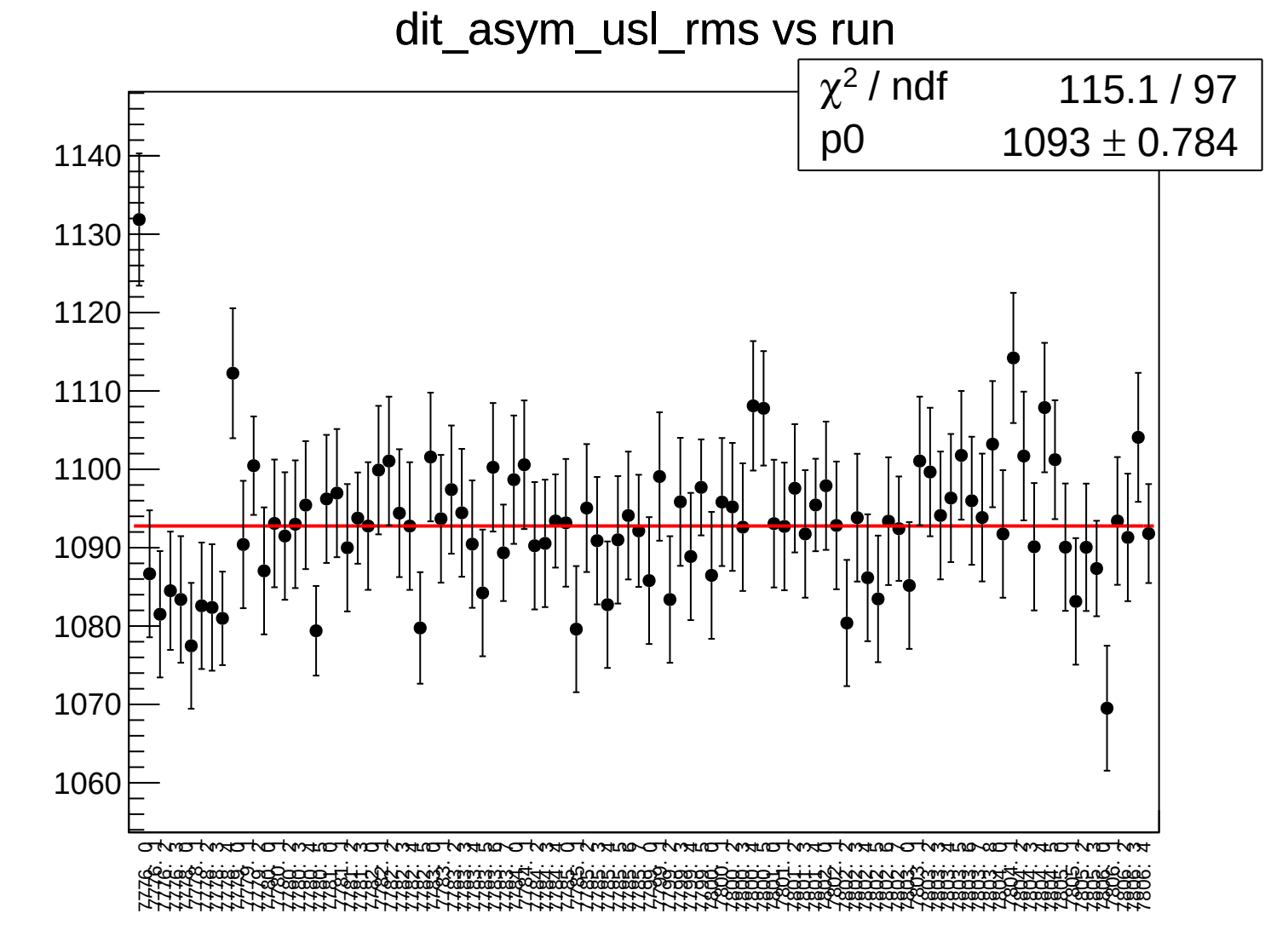

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 73.98 / 97
p0 947.9 ± 1348
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 243.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

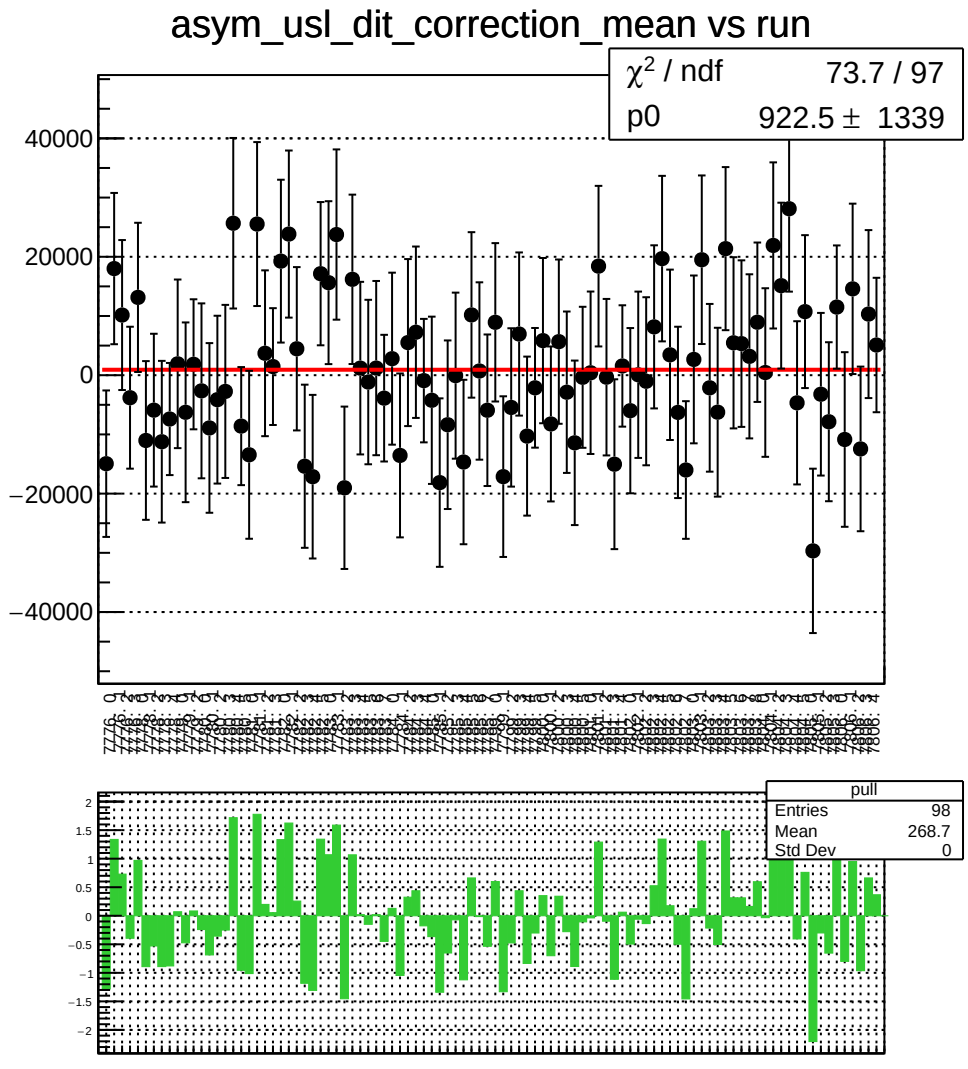

pull1D
Entries 98
Mean 0.008284
Std Dev 0.8688
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

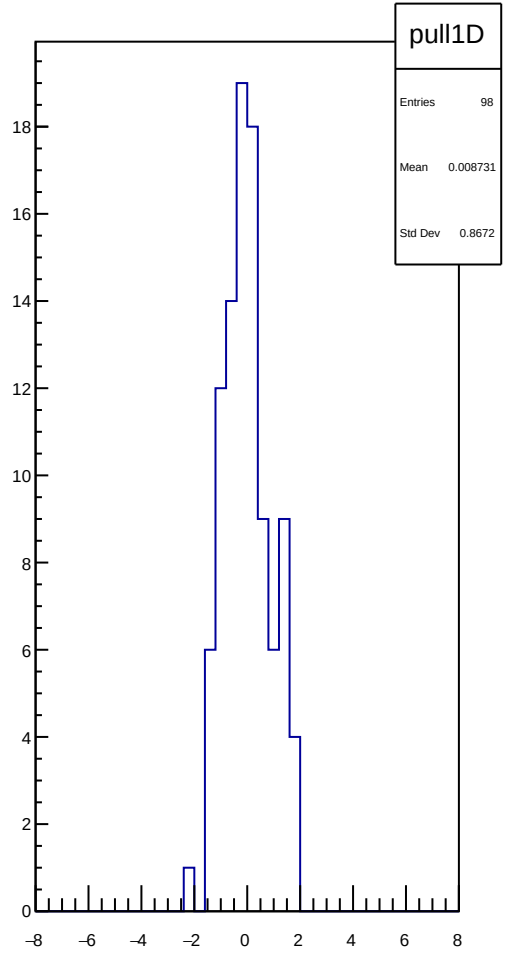

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 2536 / 97
p0 1328 ± 0.9534
1500
1450
1400
1350
1300
1250
1200
1150

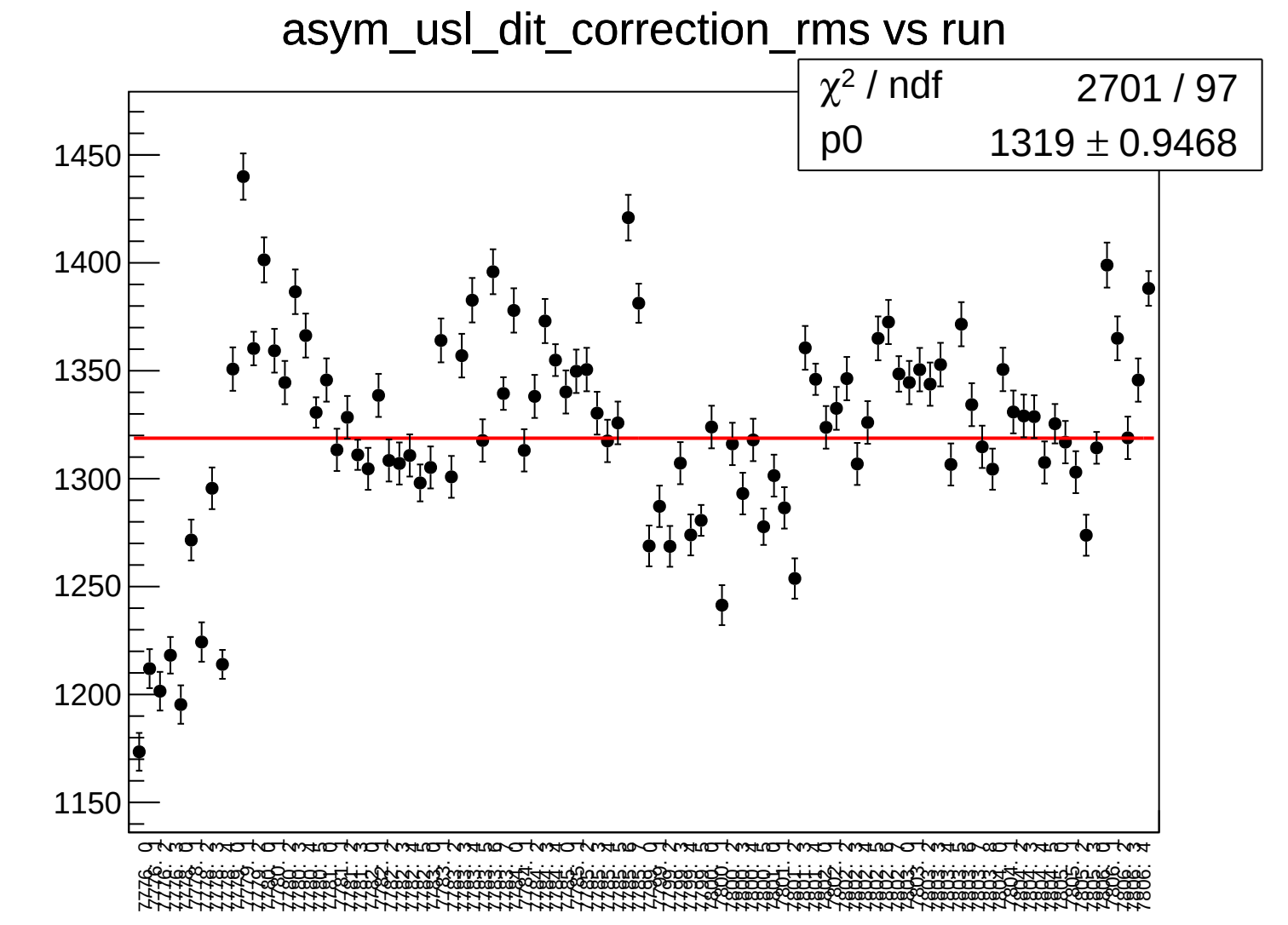

dit_asym_usl_mean vs run
χ² / ndf 89.41 / 97
p0 2967 ± 1109
pull
Entries 98
Mean 357.7
Std Dev 0

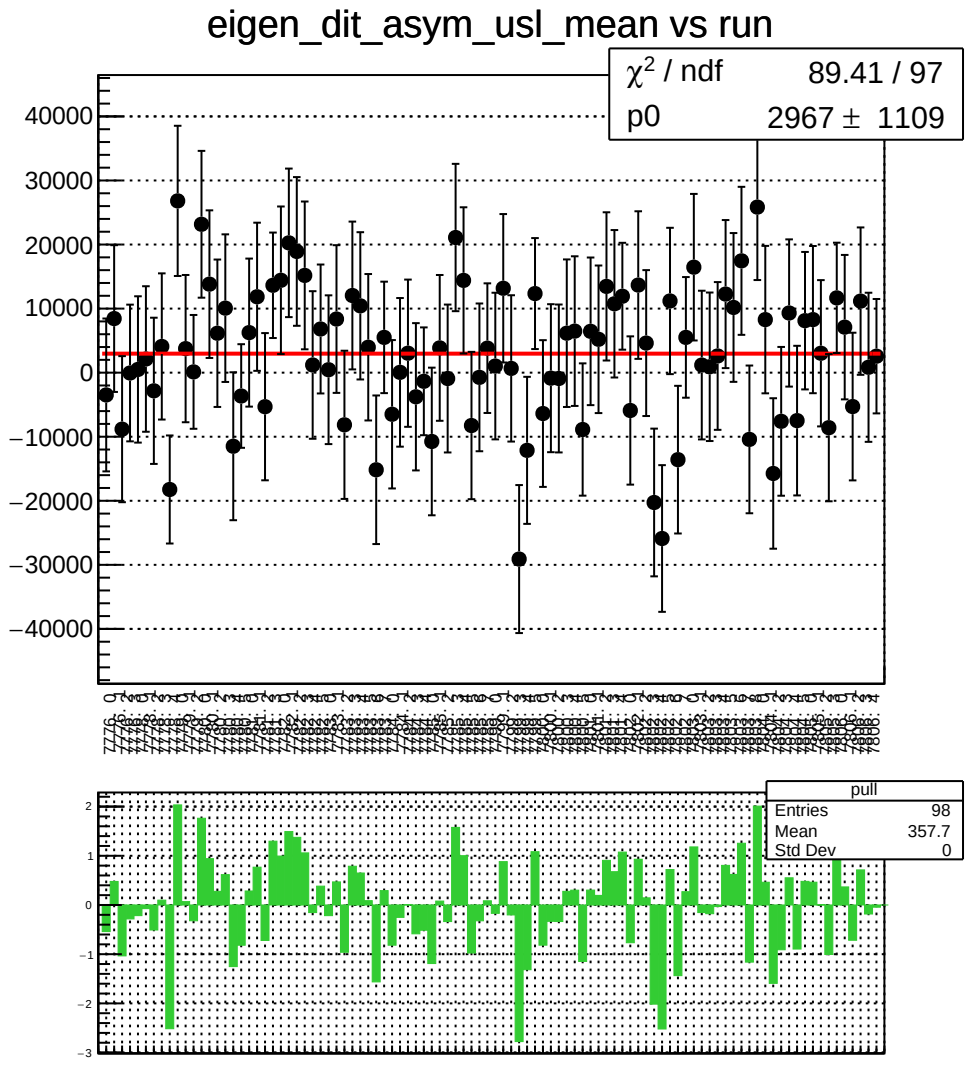

pull1D
Entries 98
Mean −0.002248
Std Dev 0.9552

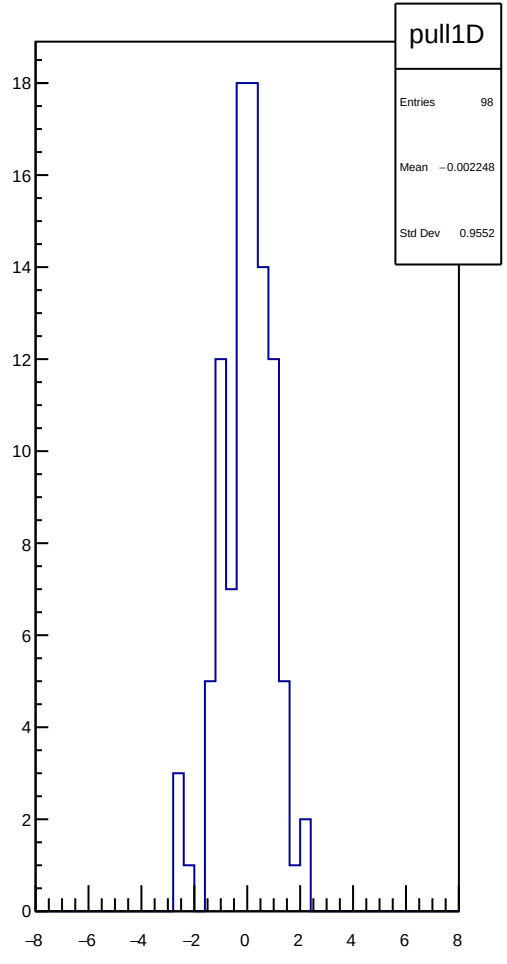

dit_asym_usl_rms vs run
χ^2 / ndf 115.1 / 97
p0 1093 ± 0.784
1140
1130
1120
1110
1100
1090
1080
1070
1060

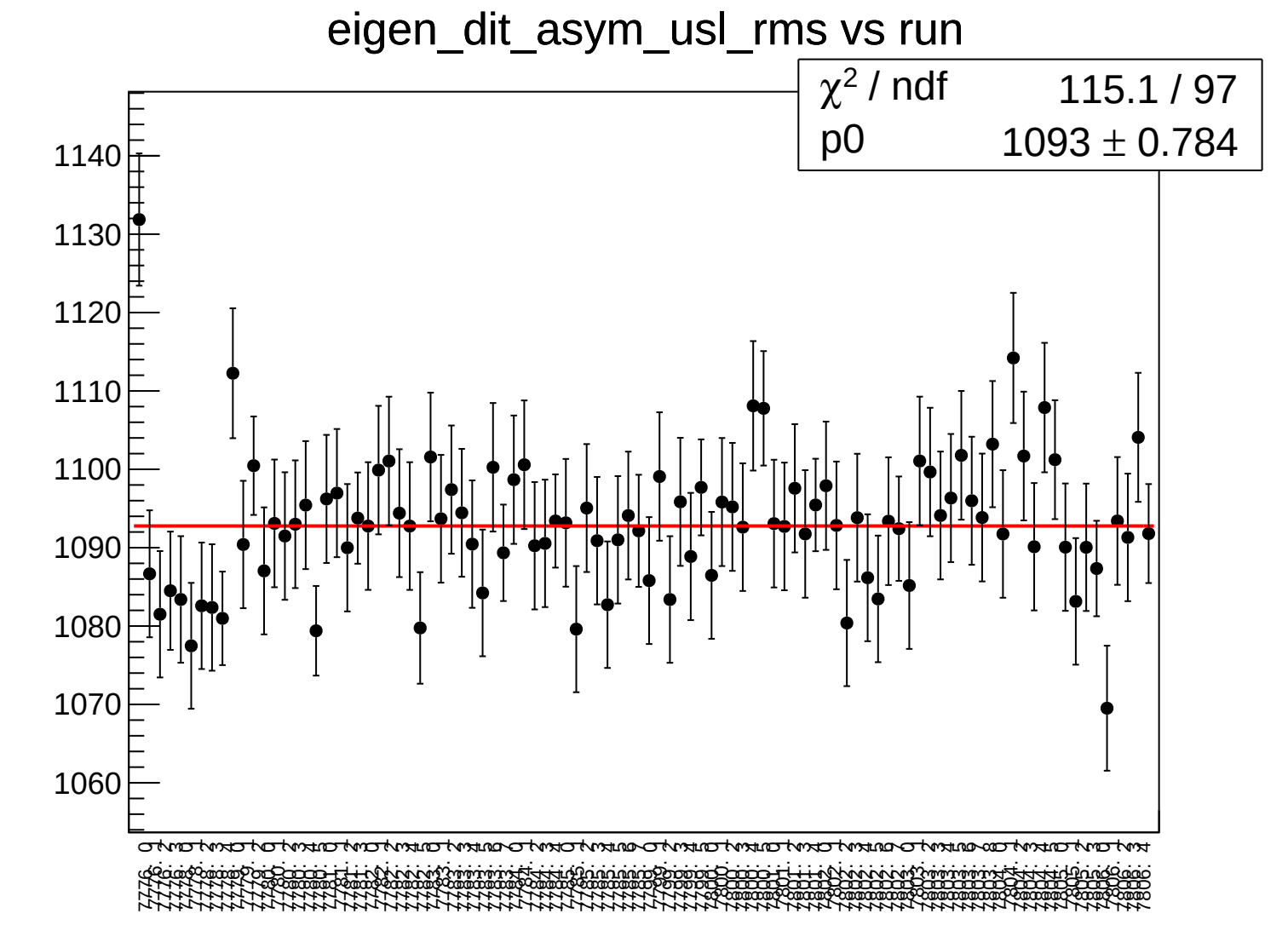

asym_usl_dit_correction_mean vs run
χ² / ndf 73.7 / 97
p0 922.5 ± 1339
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 268.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

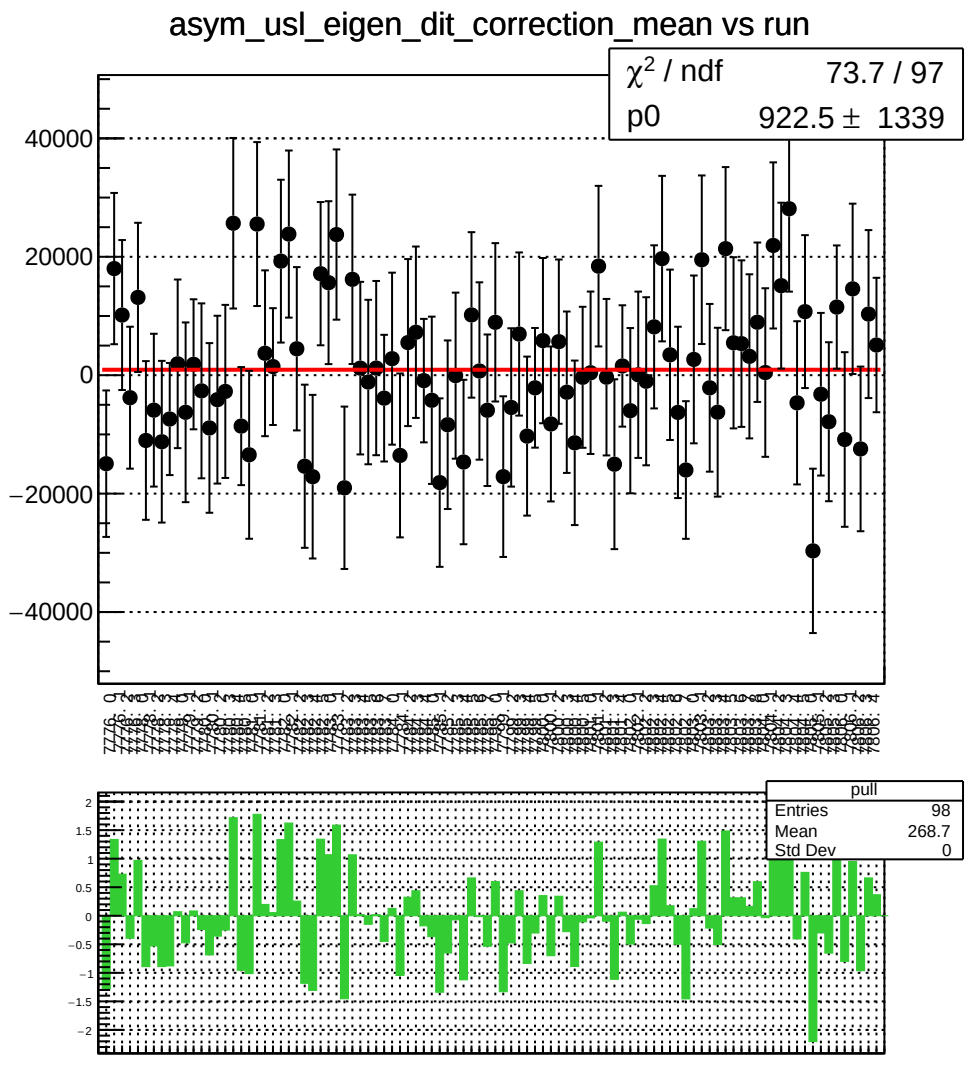

pull1D
Entries 98
Mean 0.008731
Std Dev 0.8672
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

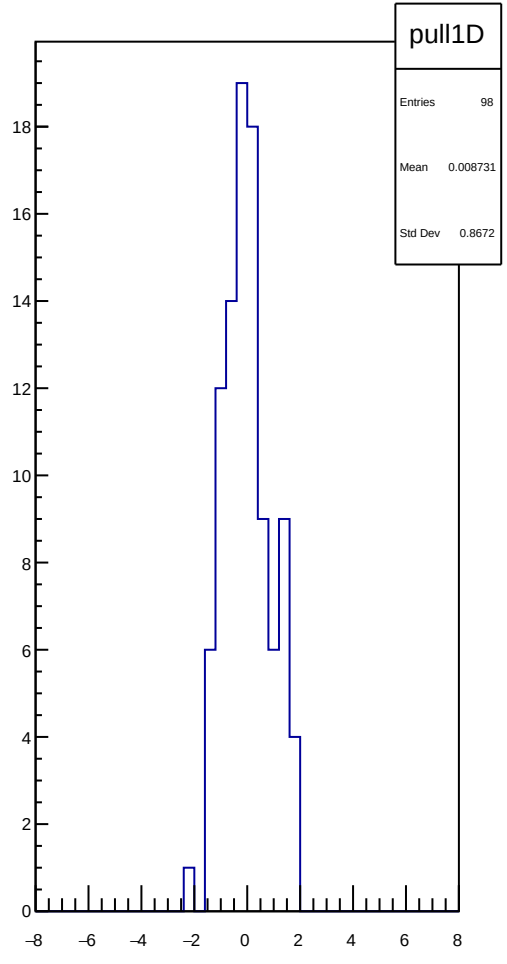

asym_usl_dit_correction_rms vs run
χ² / ndf 2701 / 97
p0 1319 ± 0.9468
1450
1400
1350
1300
1250
1200
1150

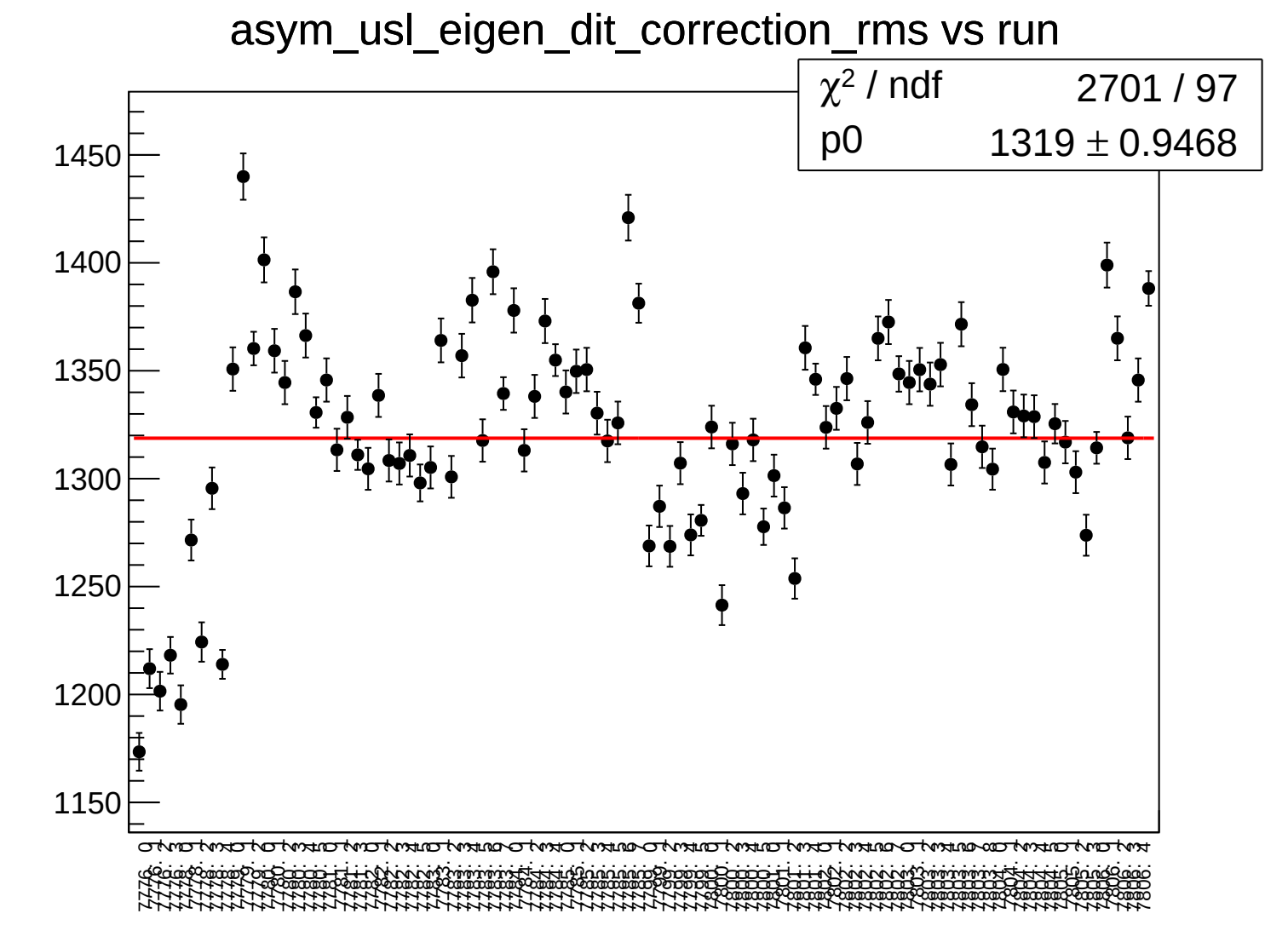

eigen_dit_asym_usl_mean vs run
χ² / ndf 89.41 / 97
p0 2967 ± 1109
pull
Entries 98
Mean 357.7
Std Dev 0

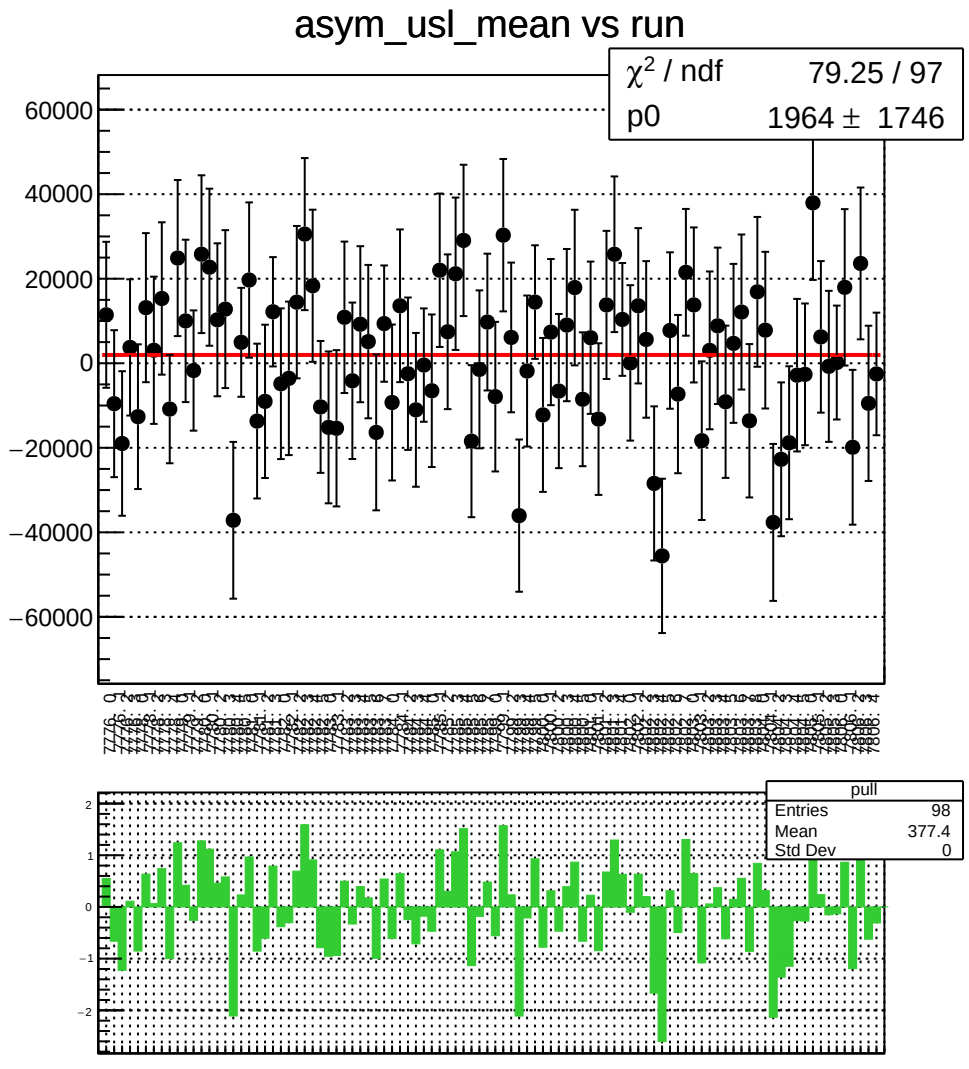

pull1D
Entries 98
Mean −0.002248
Std Dev 0.9552

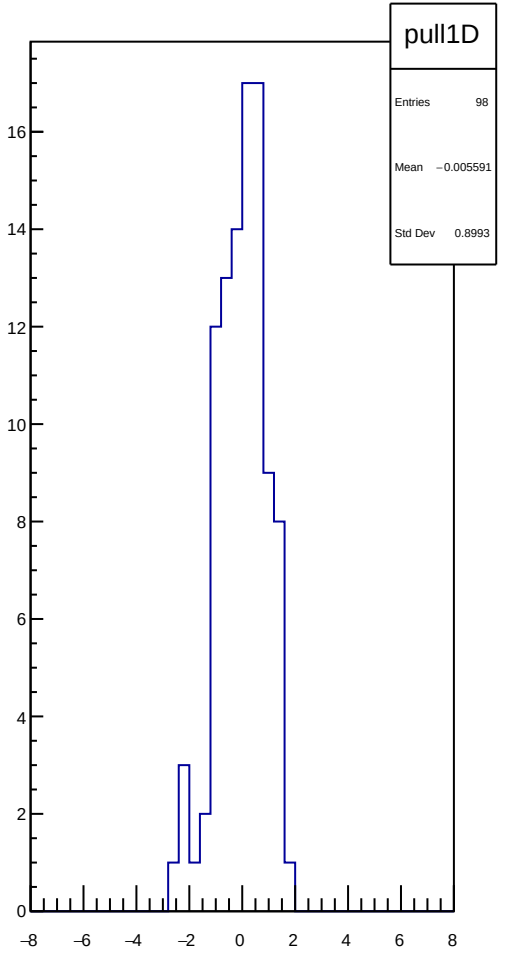

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 115.1 / 97
p0 1093 ± 0.784
1140
1130
1120
1110
1100
1090
1080
1070
1060

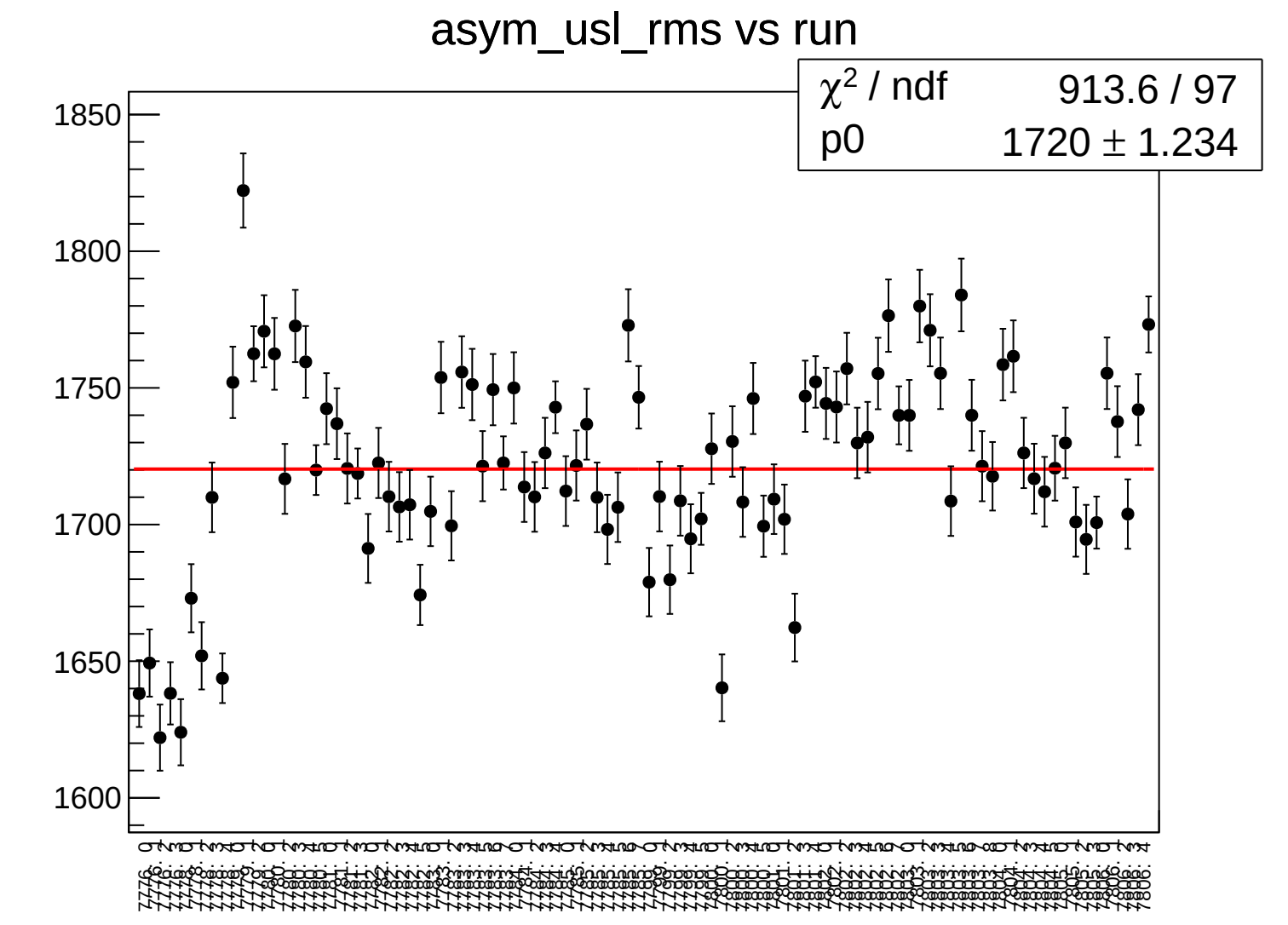

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 73.7 / 97
p0 922.5 ± 1339
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 268.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

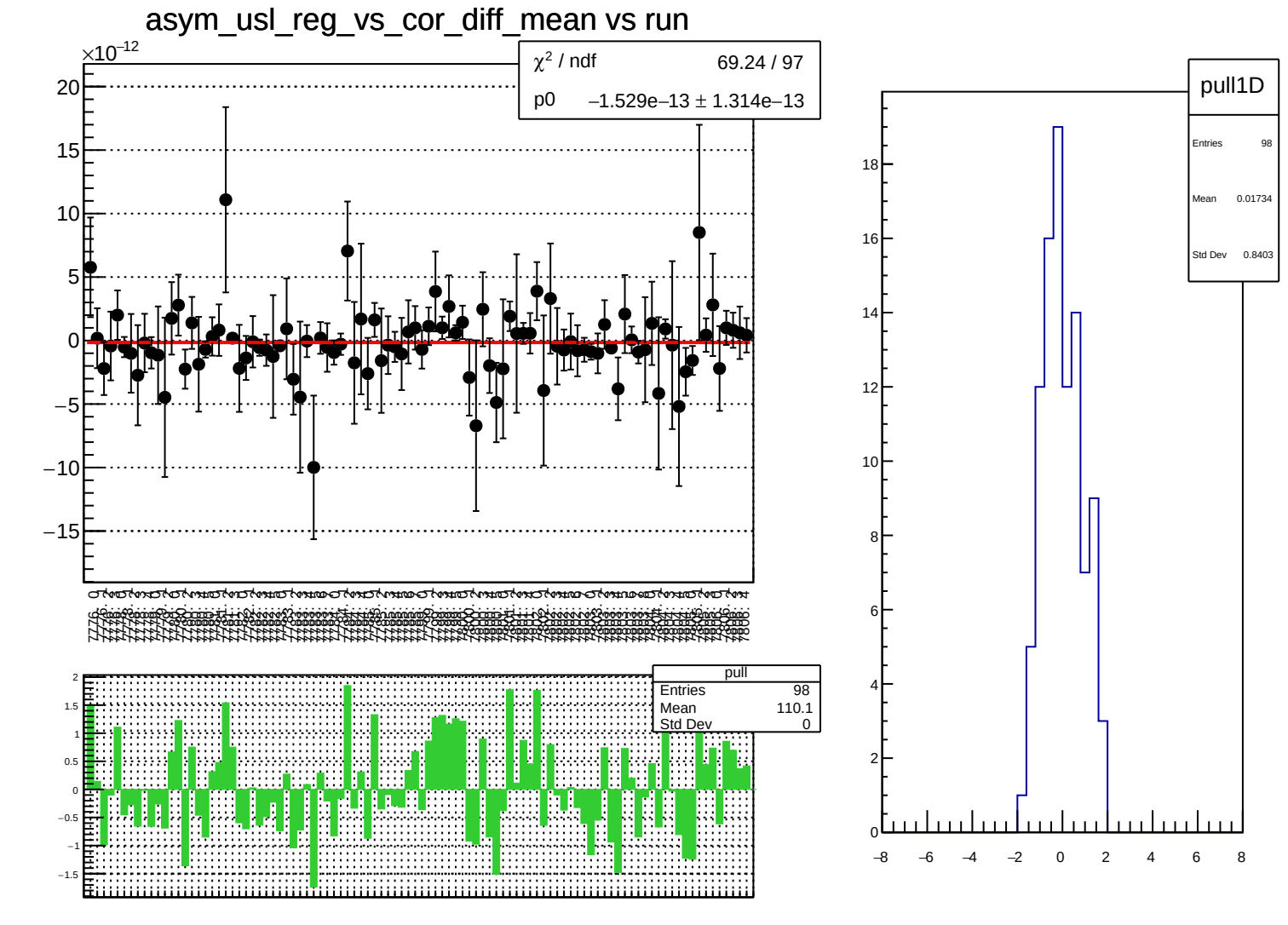

pull1D
Entries 98
Mean 0.008731
Std Dev 0.8672
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

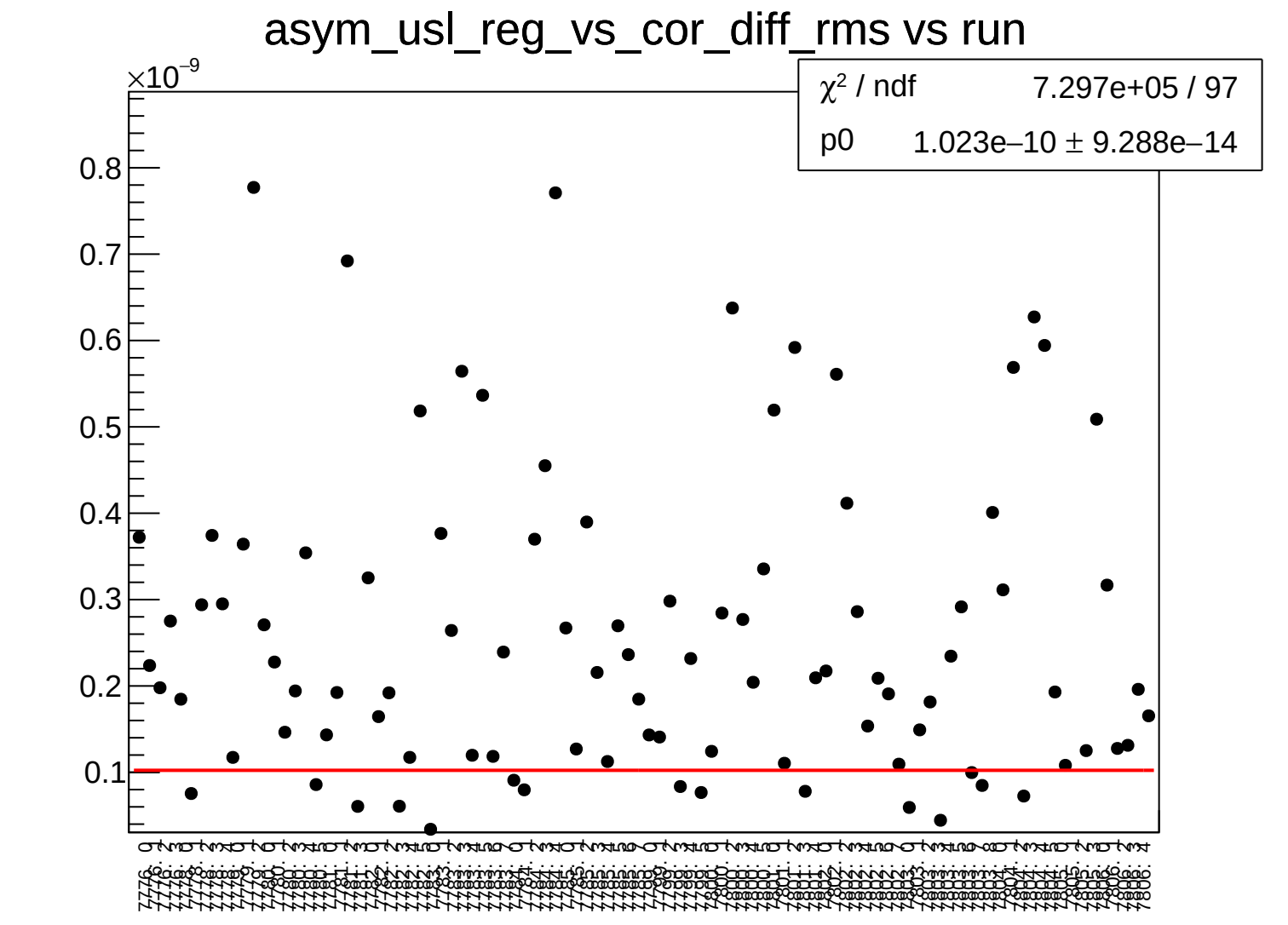

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 2701 / 97
p0 1319 ± 0.9468
1450
1400
1350
1300
1250
1200
1150

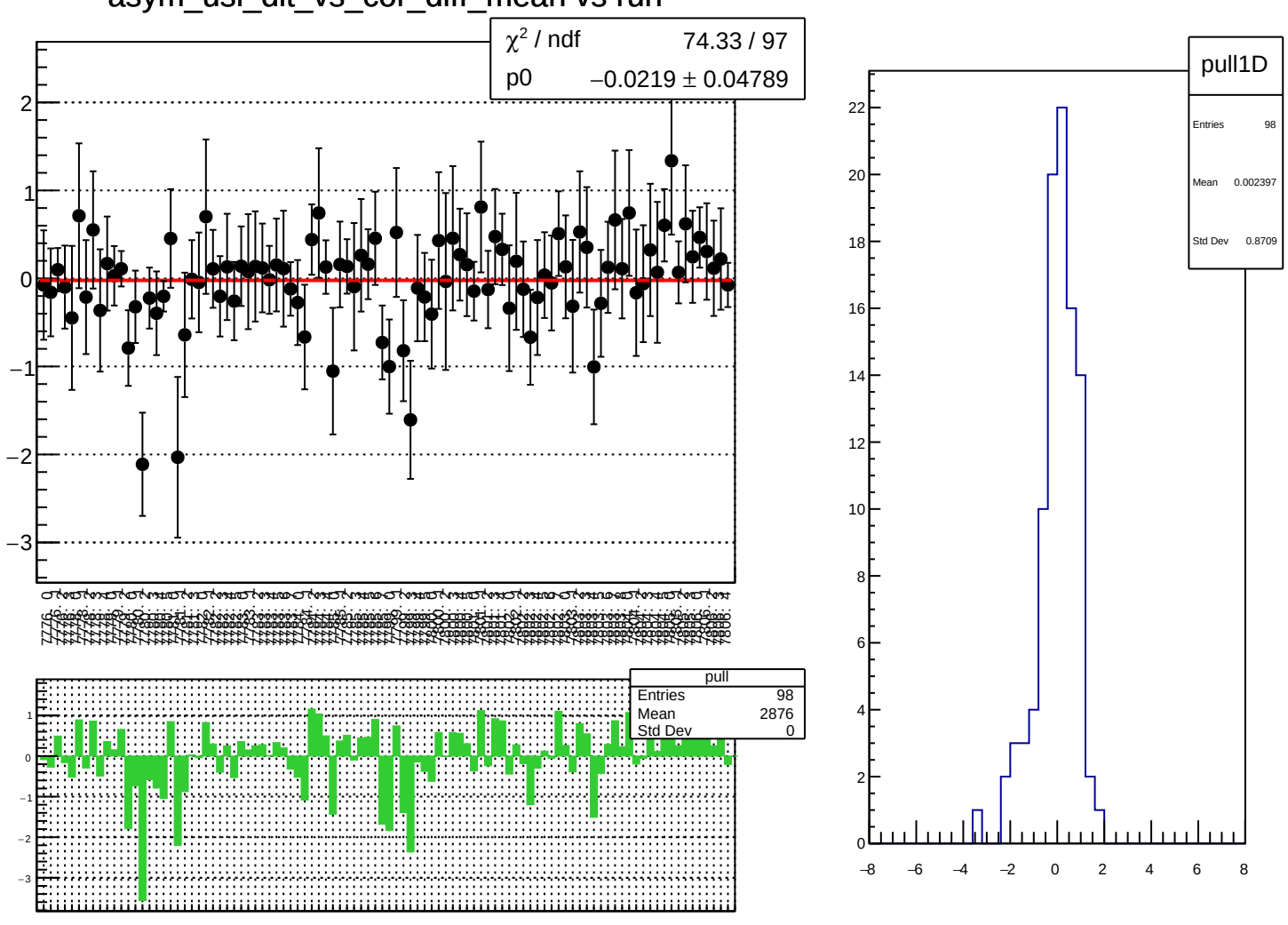

asym_usl_mean vs run
χ² / ndf 79.25 / 97
p0 1964 ± 1746
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 377.4
Std Dev 0
2
1
0
−1
−2

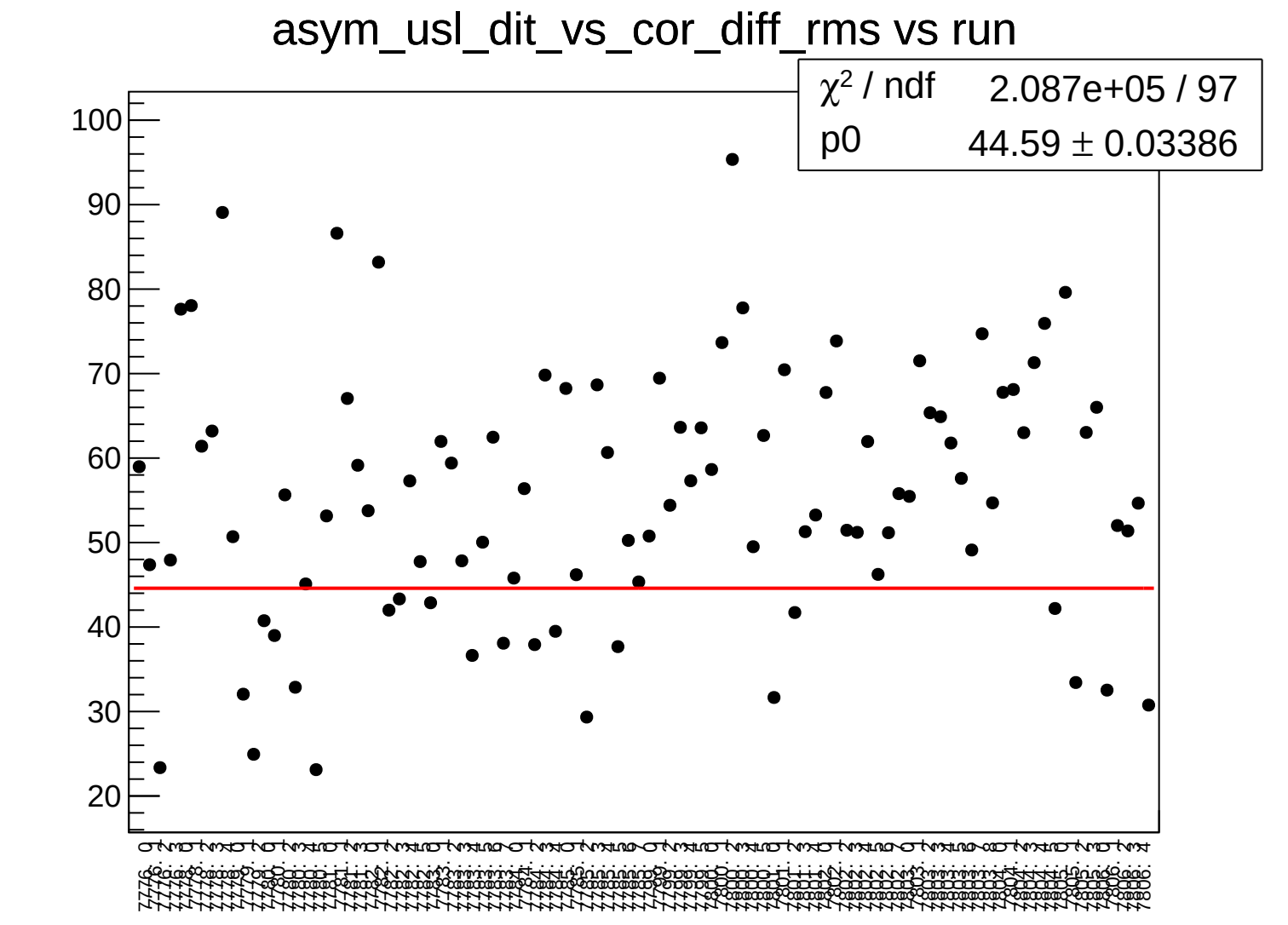

pull1D
Entries 98
Mean −0.005591
Std Dev 0.8993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

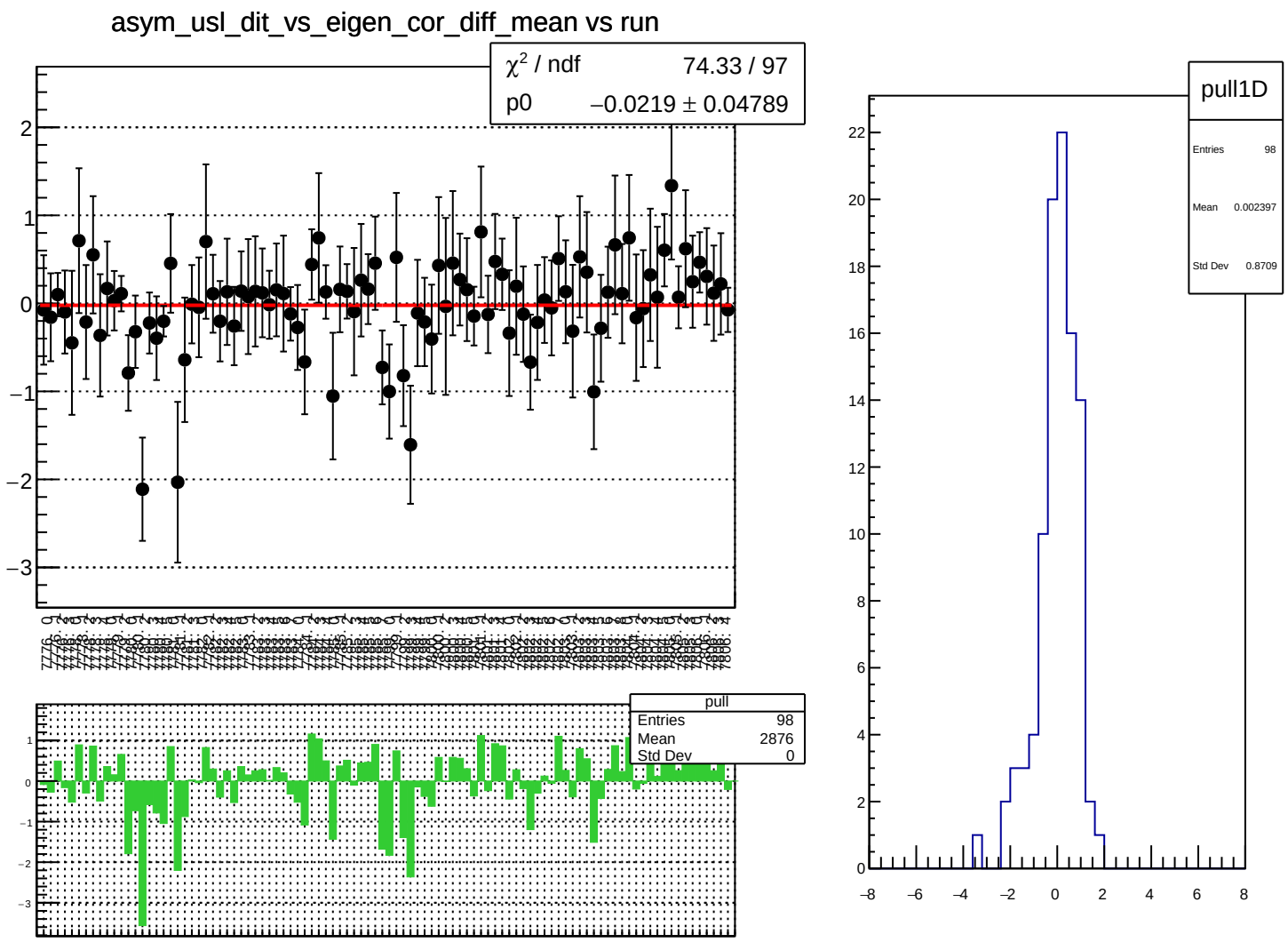

asym_usl_rms vs run
χ² / ndf 913.6 / 97
p0 1720 ± 1.234
1850
1800
1750
1700
1650
1600

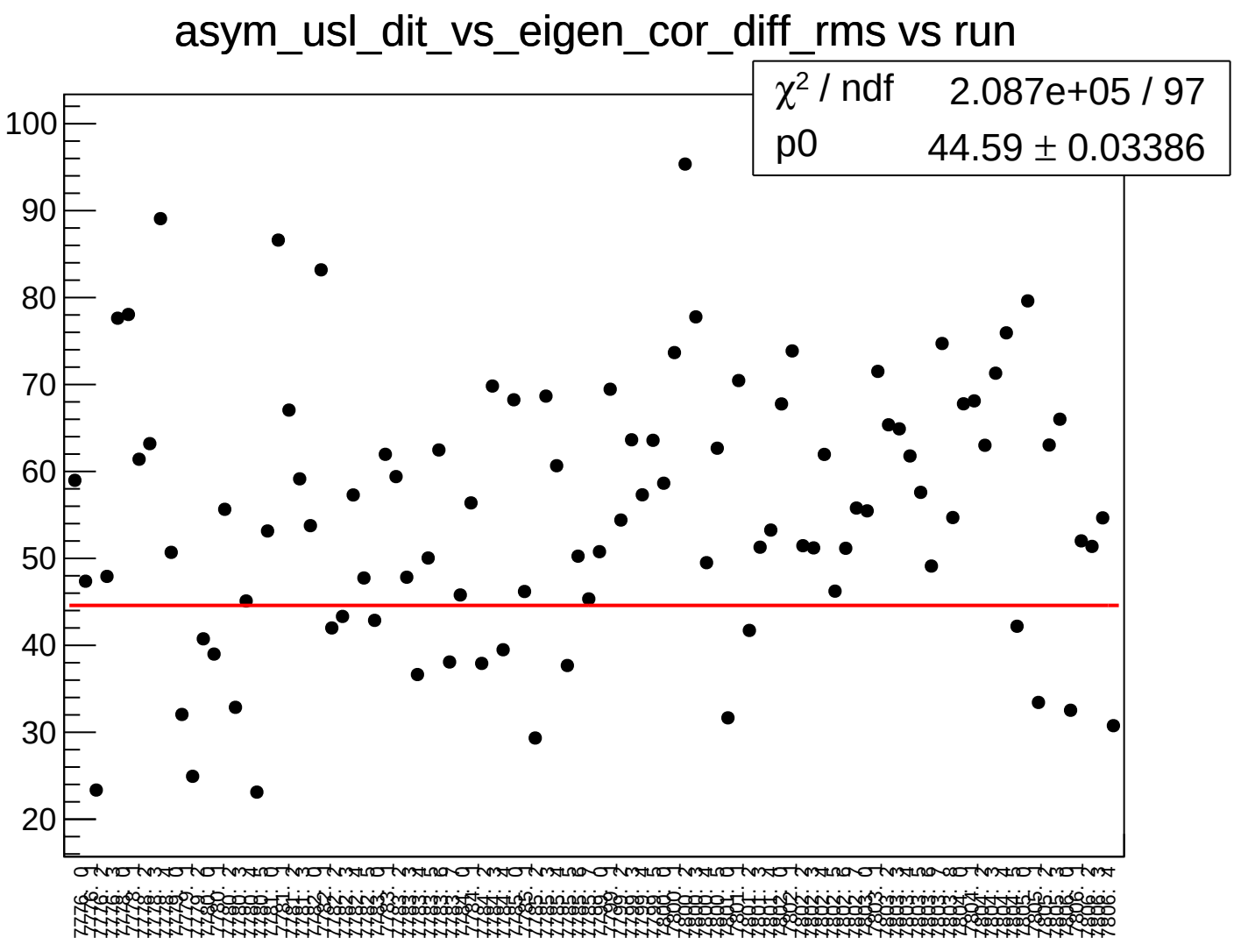

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.24 / 97
p0 −1.529e−13 ± 1.314e−13
pull
Entries 98
Mean 110.1
Std Dev 0
pull1D
Entries 98
Mean 0.01734
Std Dev 0.8403

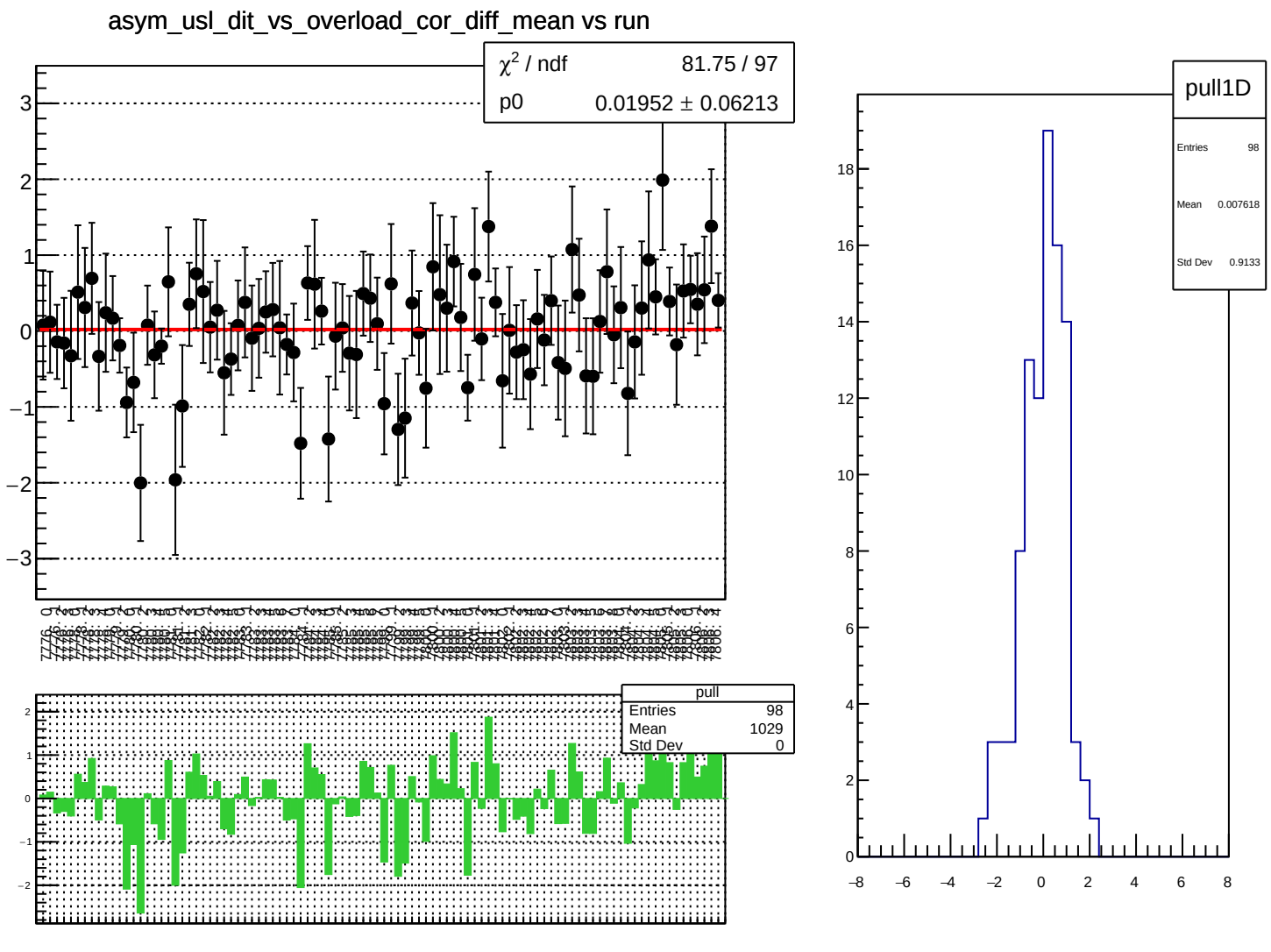

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.297e+05 / 97
p0 1.023e−10 ± 9.288e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

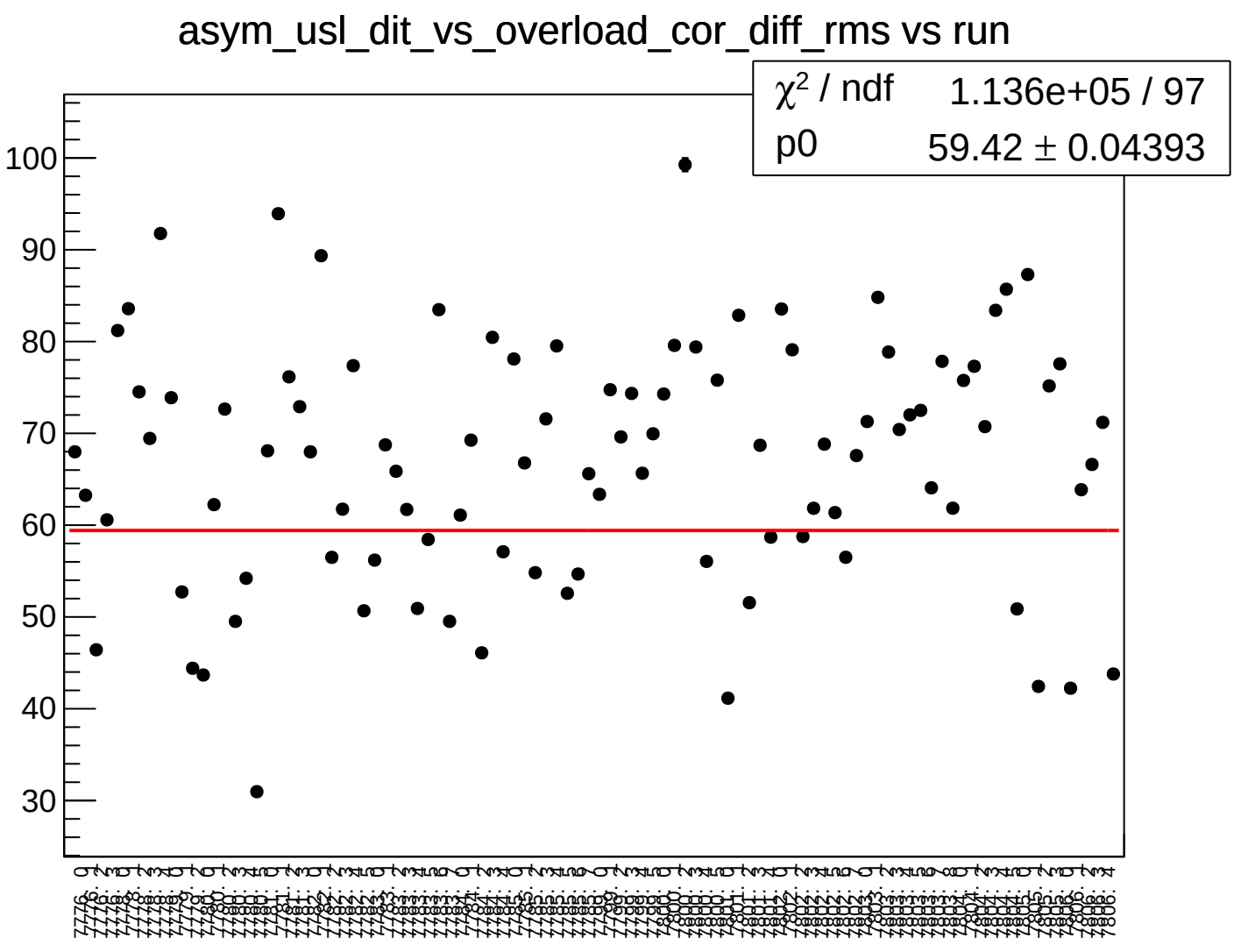

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 74.33 / 97
p0 −0.0219 ± 0.04789
pull
Entries 98
Mean 2876
Std Dev 0
pull1D
Entries 98
Mean 0.002397
Std Dev 0.8709

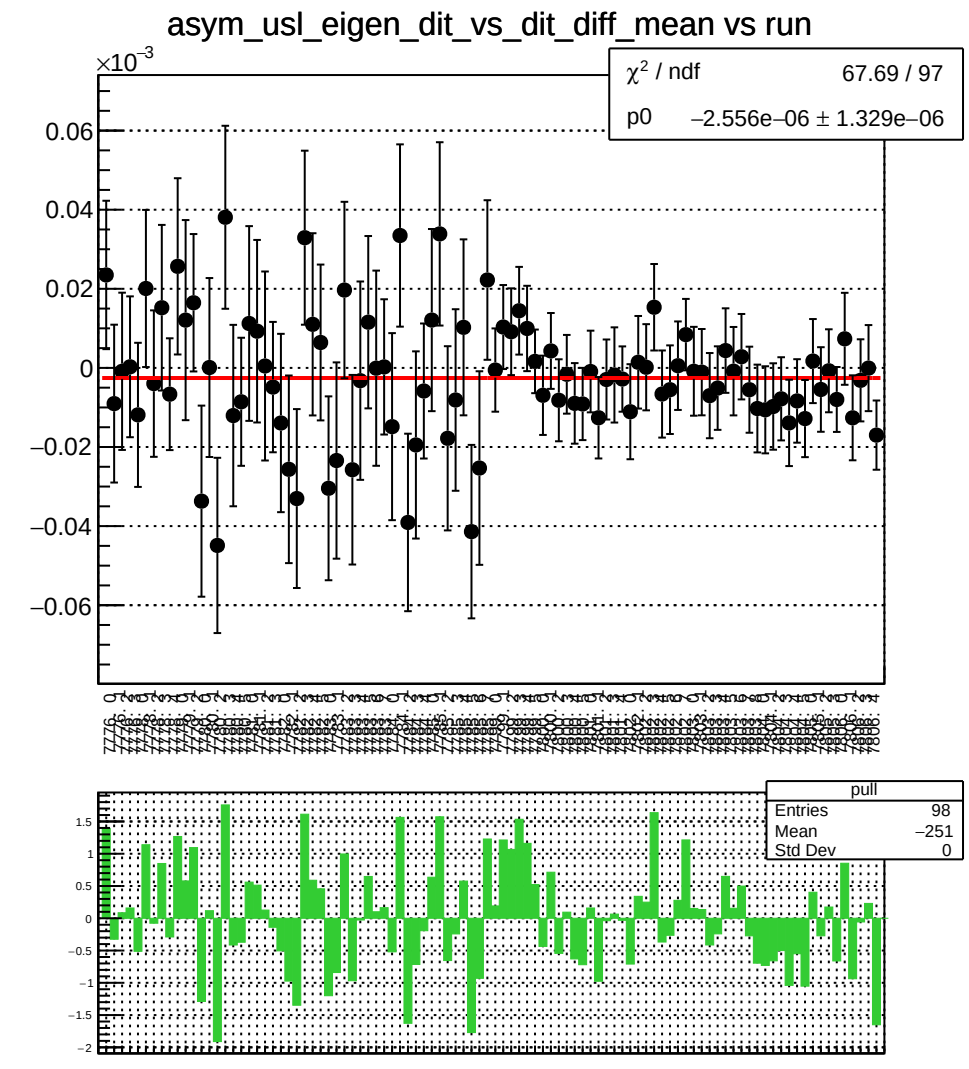

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 2.087e+05 / 97
p0 44.59 ± 0.03386
100
90
80
70
60
50
40
30
20

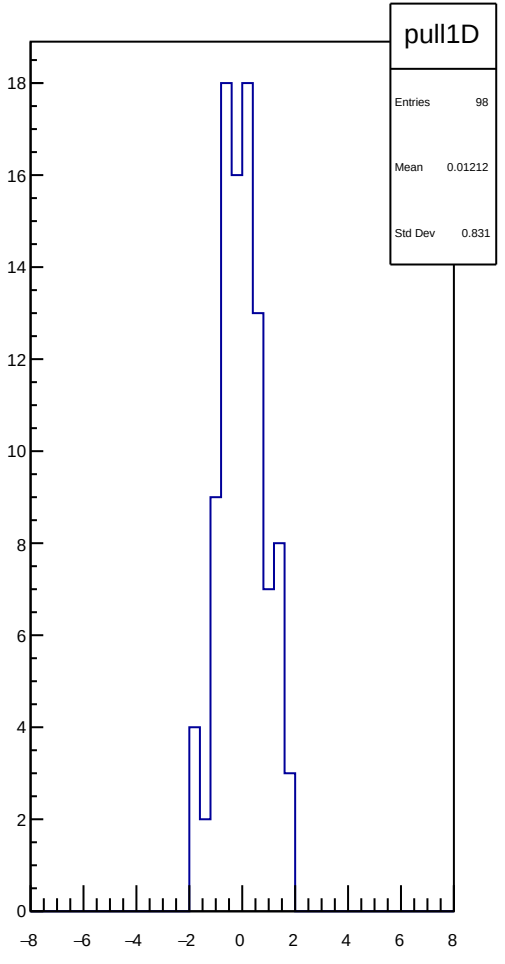

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.33 / 97
p0 −0.0219 ± 0.04789
pull
Entries 98
Mean 2876
Std Dev 0
pull1D
Entries 98
Mean 0.002397
Std Dev 0.8709

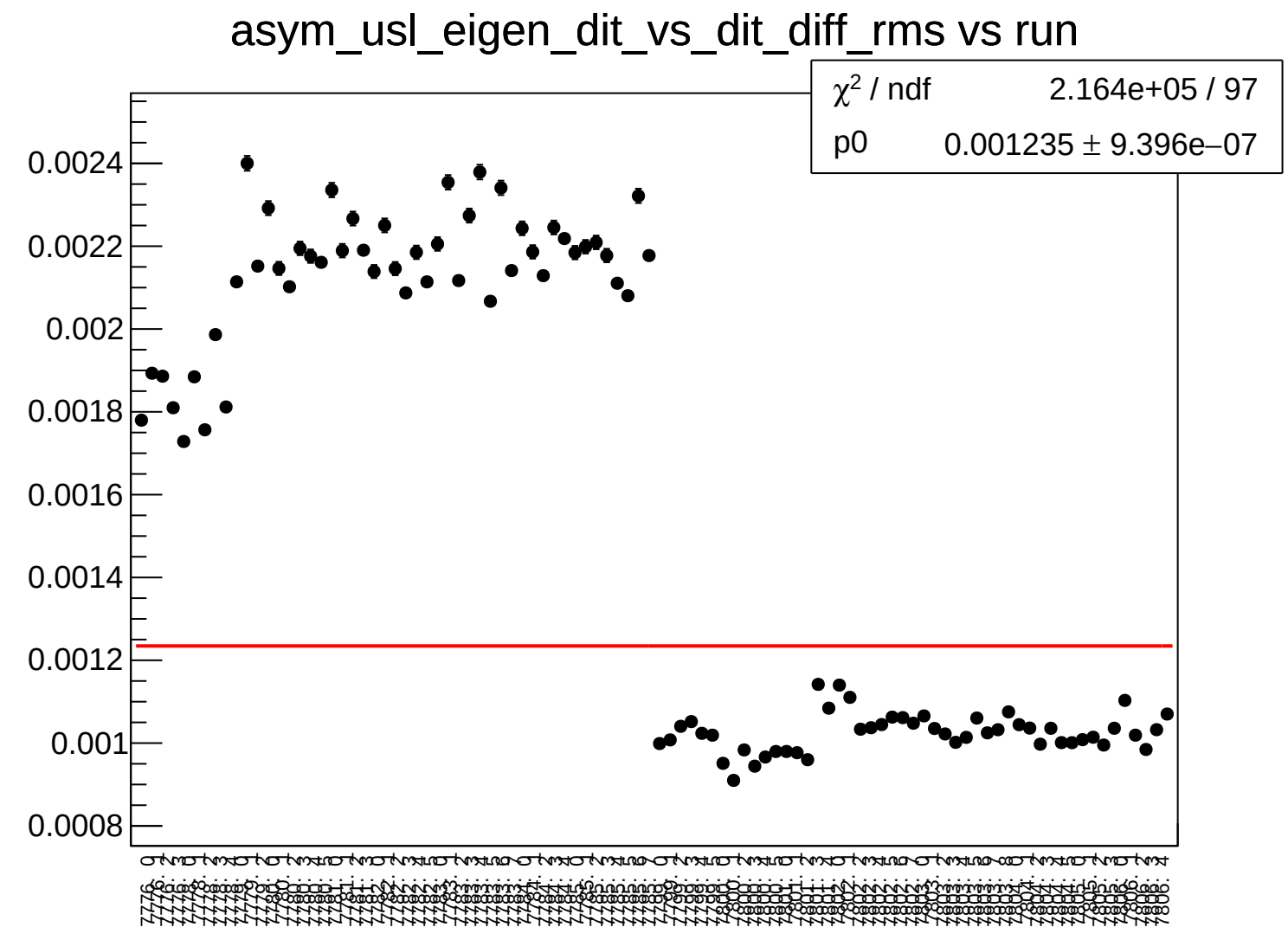

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.087e+05 / 97
p0 44.59 ± 0.03386
100
90
80
70
60
50
40
30
20

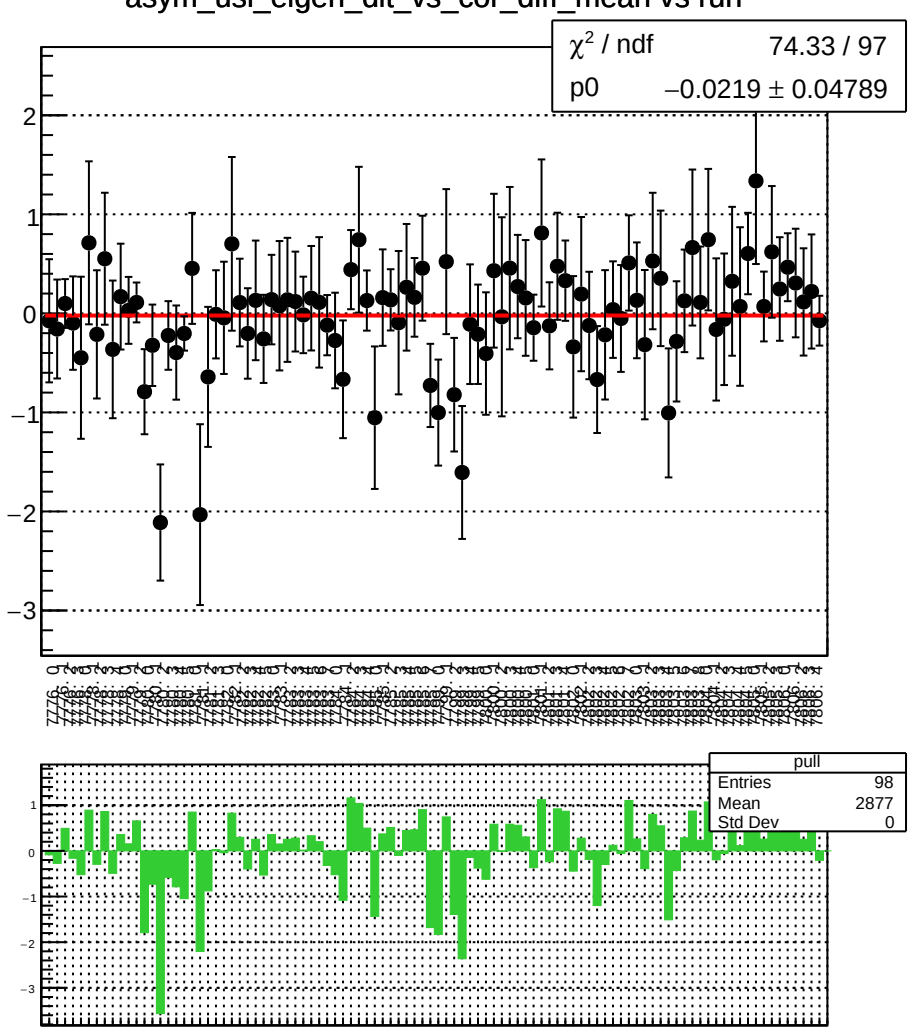

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 81.75 / 97
p0 0.01952 ± 0.06213
pull
Entries 98
Mean 1029
Std Dev 0
pull1D
Entries 98
Mean 0.007618
Std Dev 0.9133

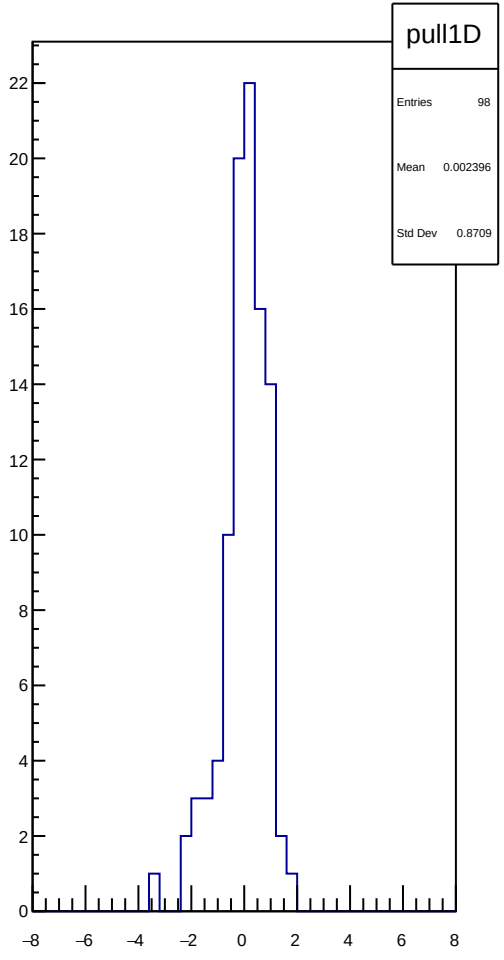

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.136e+05 / 97
p0 59.42 ± 0.04393
100
90
80
70
60
50
40
30

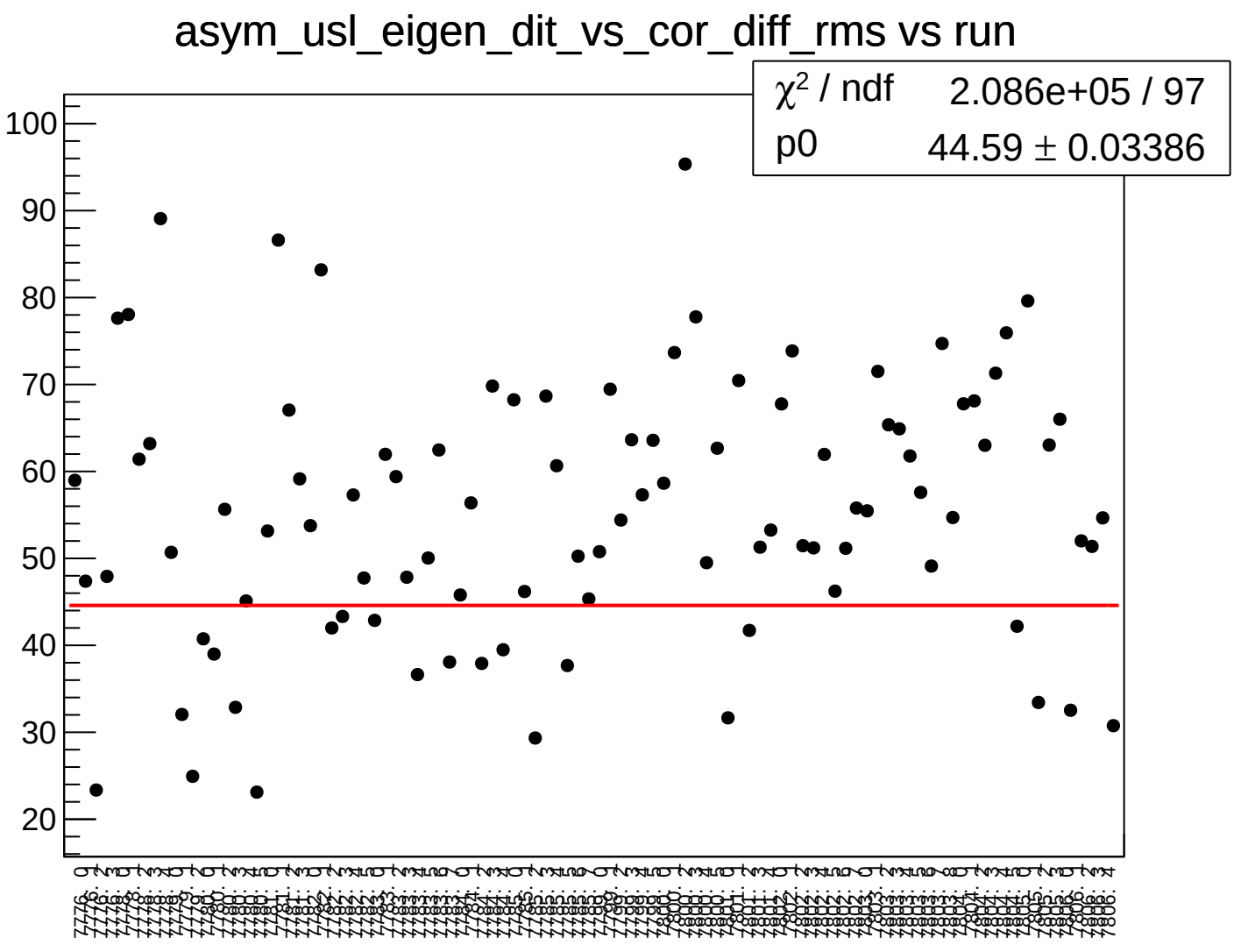

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.69 / 97
p0 −2.556e−06 ± 1.329e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 98
Mean −251
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

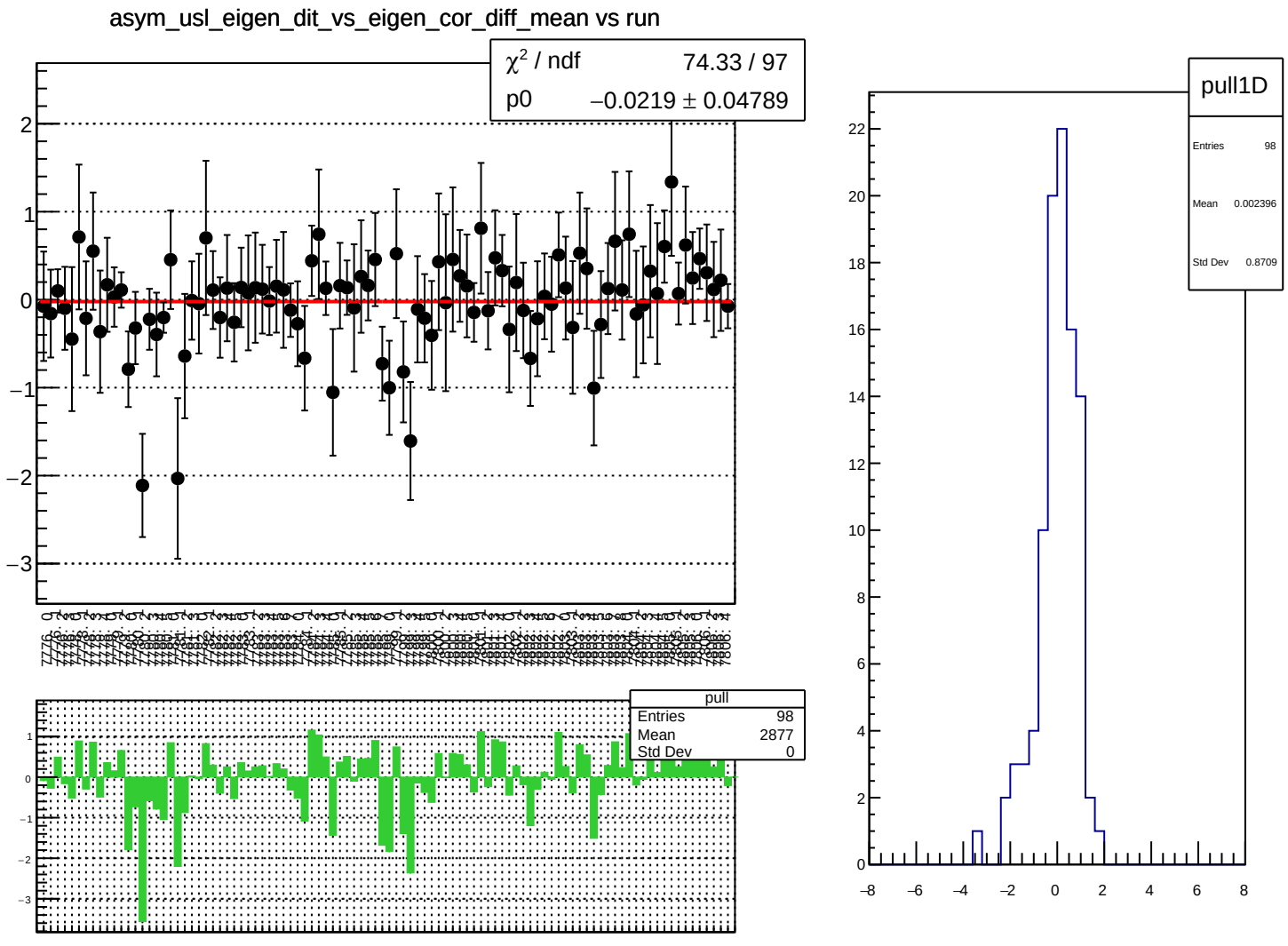

pull1D
Entries 98
Mean 0.01212
Std Dev 0.831
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

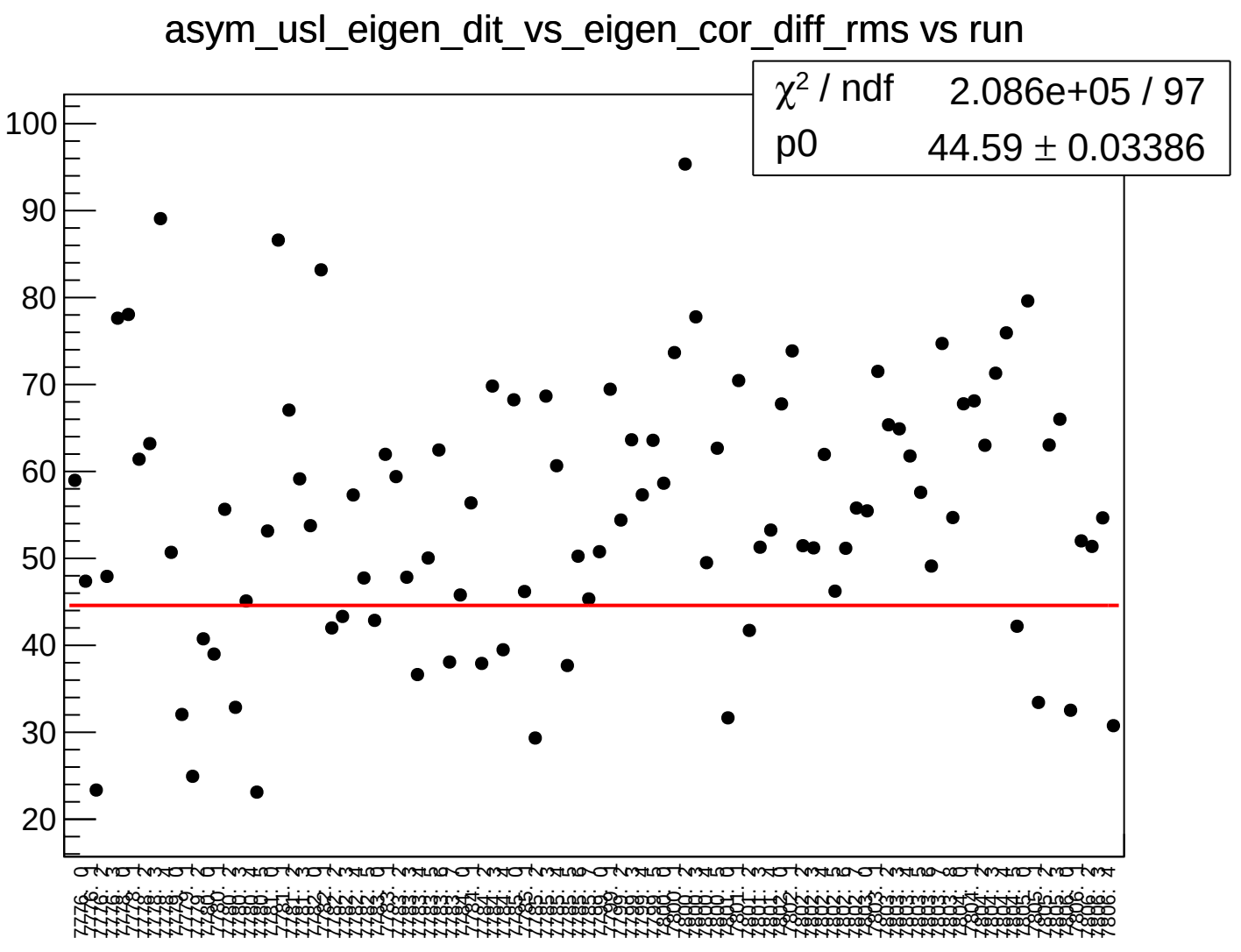

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.164e+05 / 97
p0 0.001235 ± 9.396e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

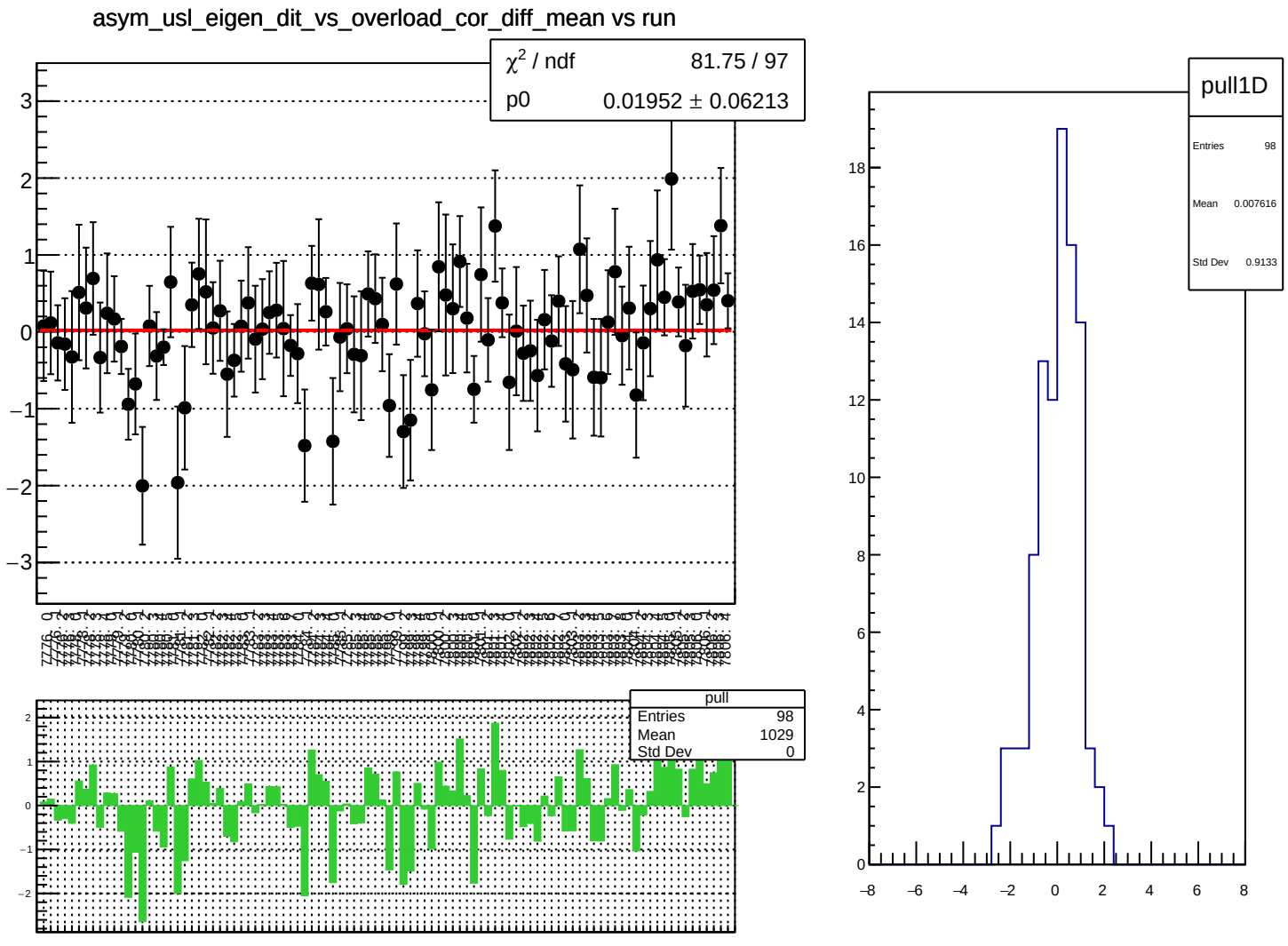

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.33 / 97
p0 −0.0219 ± 0.04789
pull
Entries 98
Mean 2877
Std Dev 0

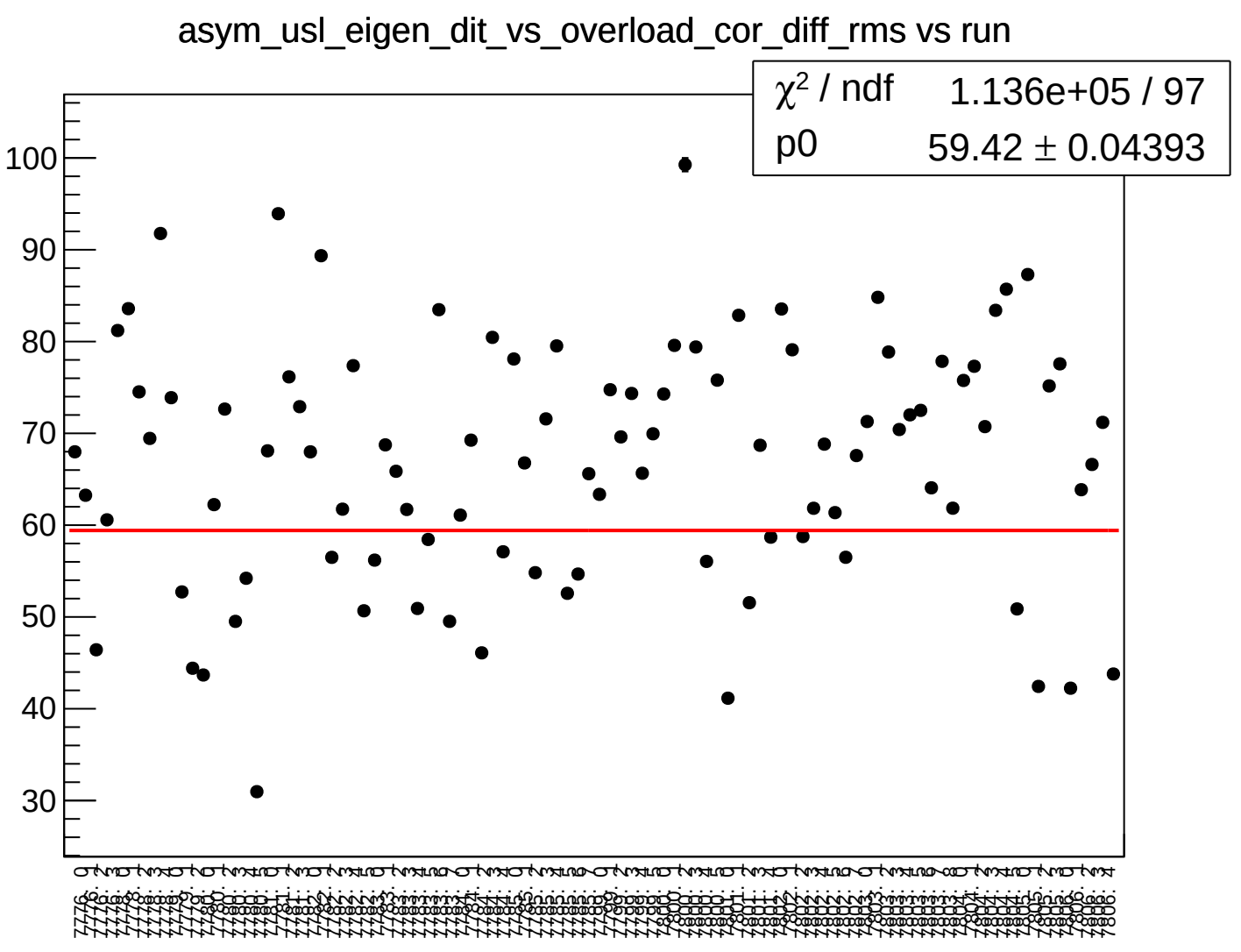

pull1D
Entries 98
Mean 0.002396
Std Dev 0.8709

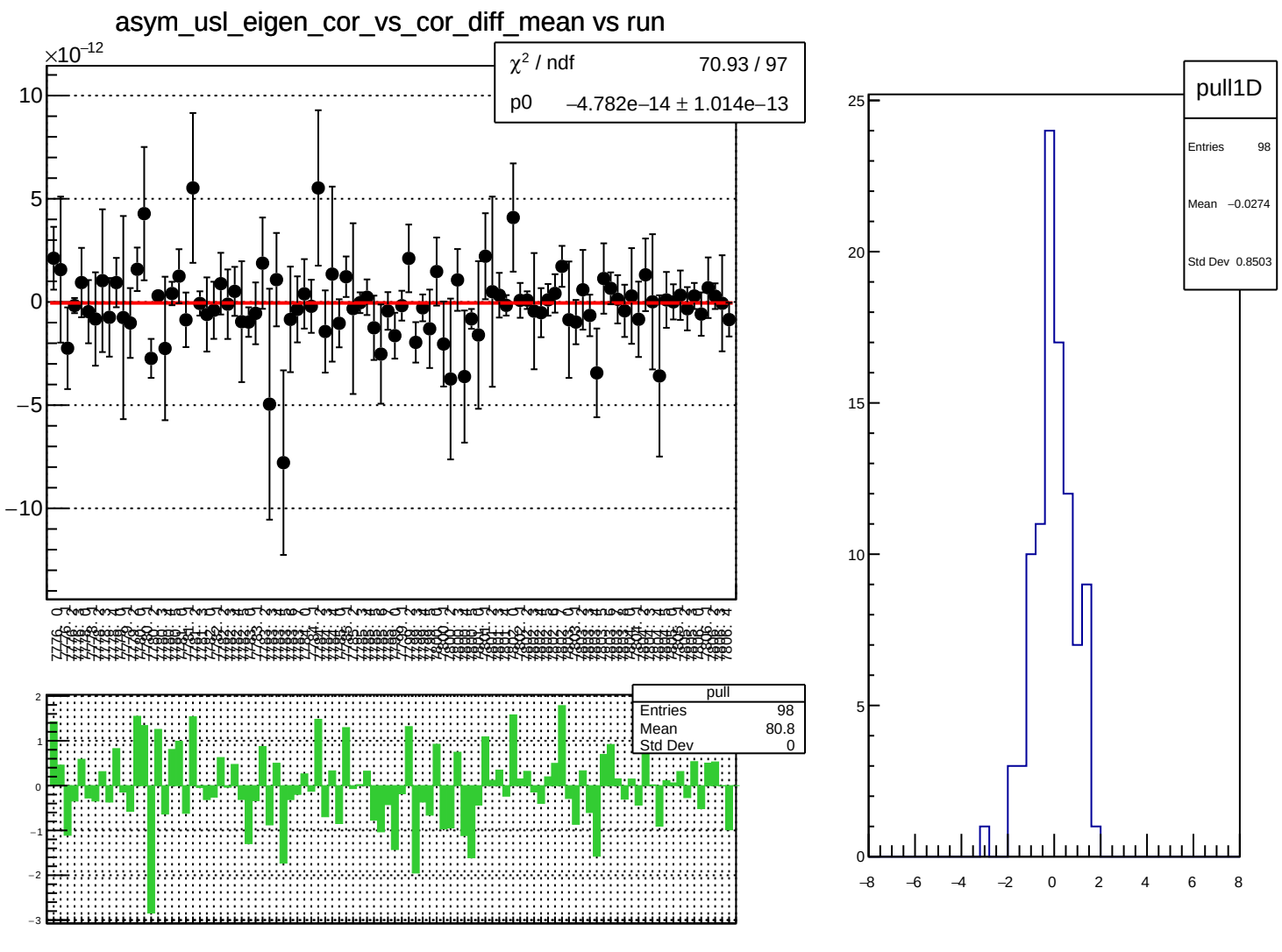

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.086e+05 / 97
p0 44.59 ± 0.03386
100
90
80
70
60
50
40
30
20

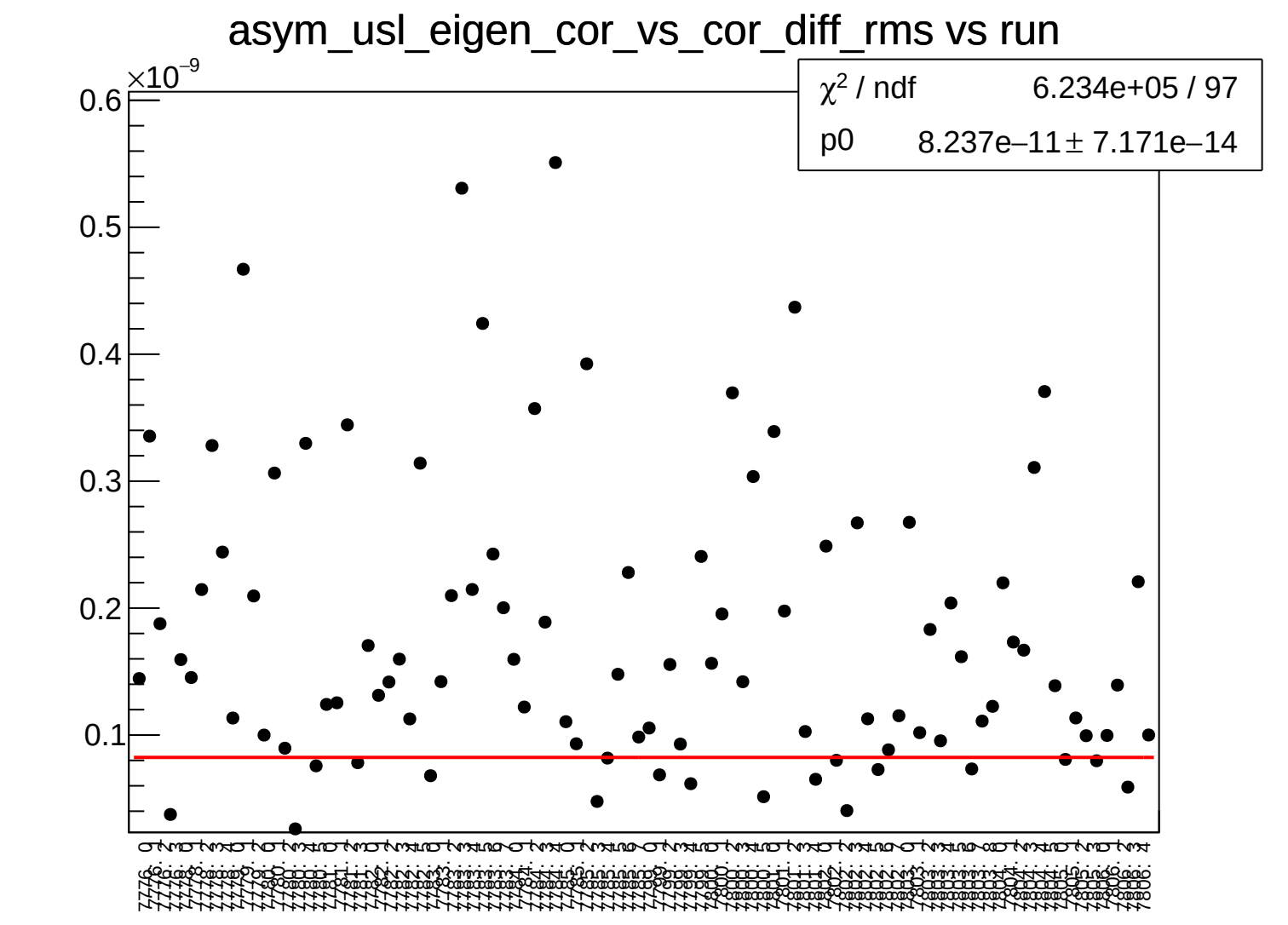

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.33 / 97
p0 −0.0219 ± 0.04789
pull
Entries 98
Mean 2877
Std Dev 0
pull1D
Entries 98
Mean 0.002396
Std Dev 0.8709

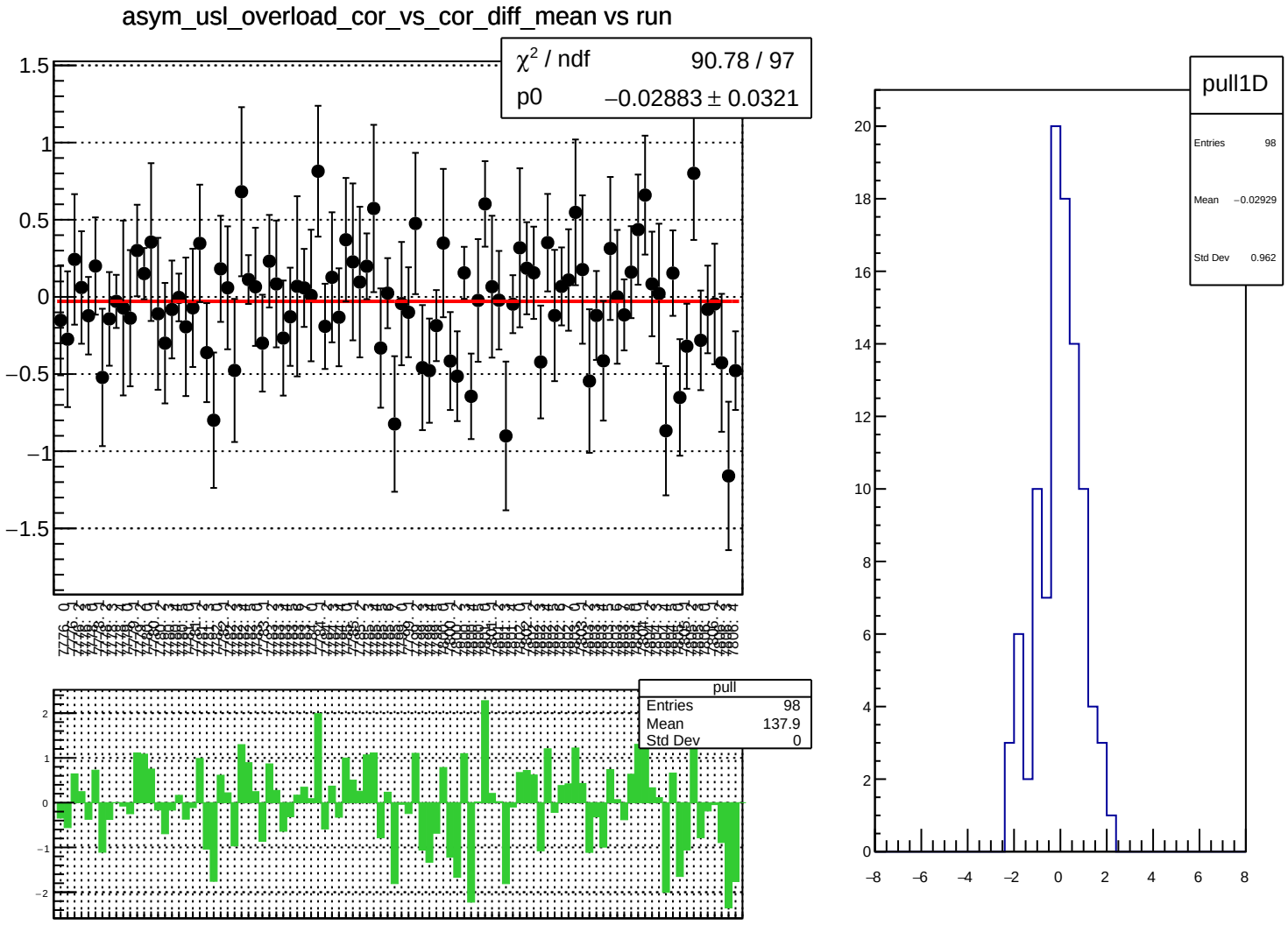

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.086e+05 / 97
p0 44.59 ± 0.03386
100
90
80
70
60
50
40
30
20

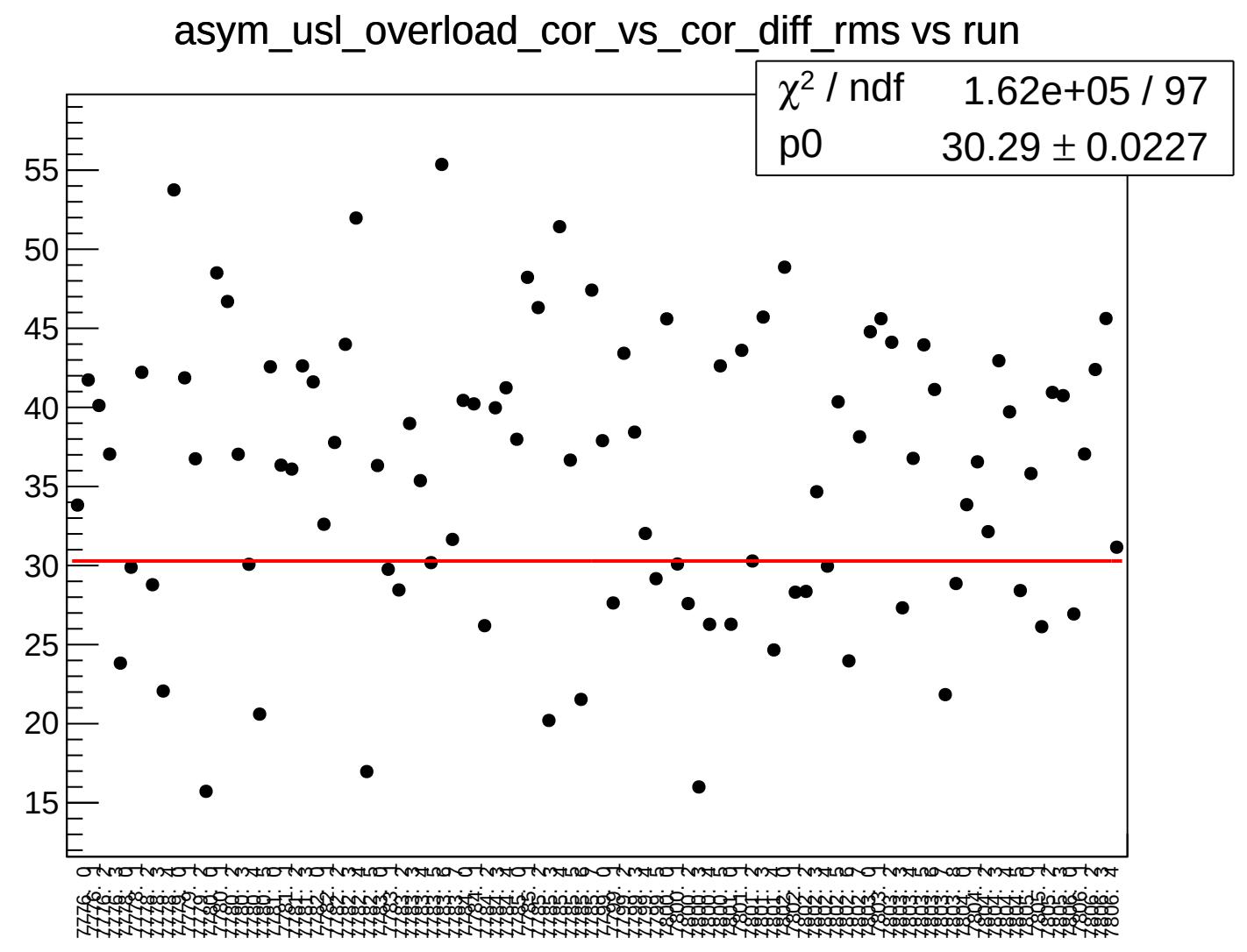

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 81.75 / 97
p0 0.01952 ± 0.06213
pull
Entries 98
Mean 1029
Std Dev 0
pull1D
Entries 98
Mean 0.007616
Std Dev 0.9133

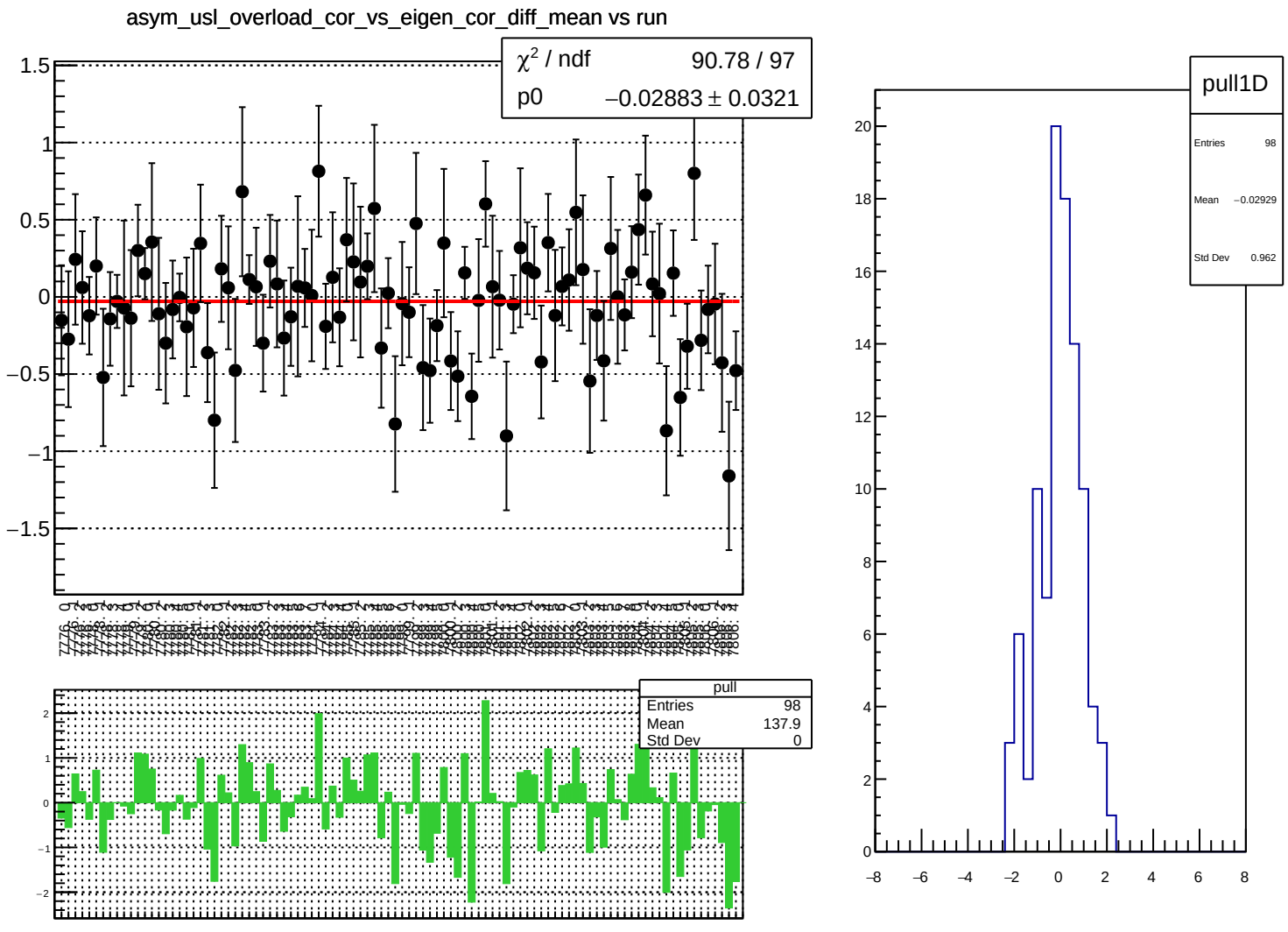

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.136e+05 / 97
p0 59.42 ± 0.04393
100
90
80
70
60
50
40
30

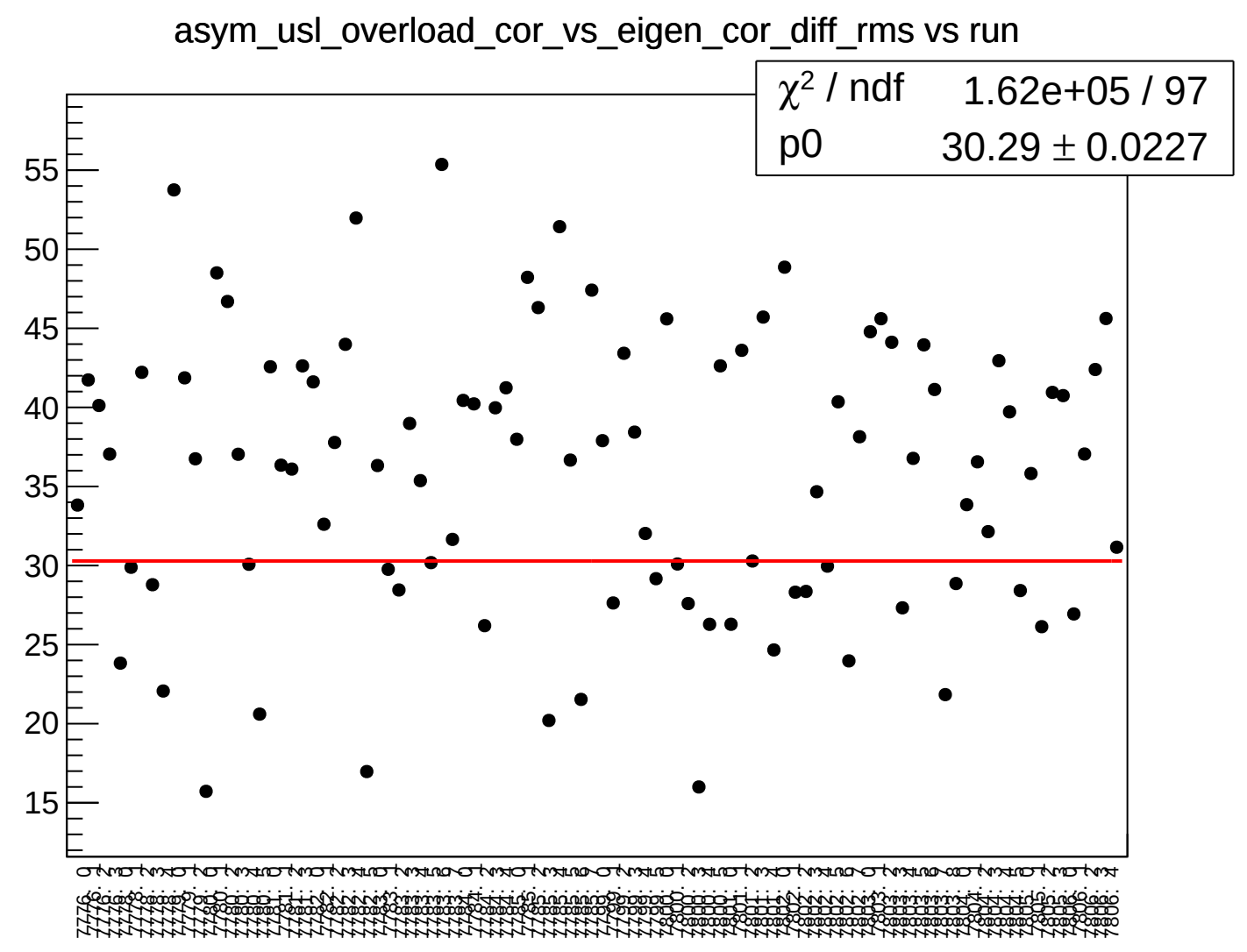

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 70.93 / 97
p0 −4.782e−14 ± 1.014e−13
pull
Entries 98
Mean 80.8
Std Dev 0
pull1D
Entries 98
Mean −0.0274
Std Dev 0.8503

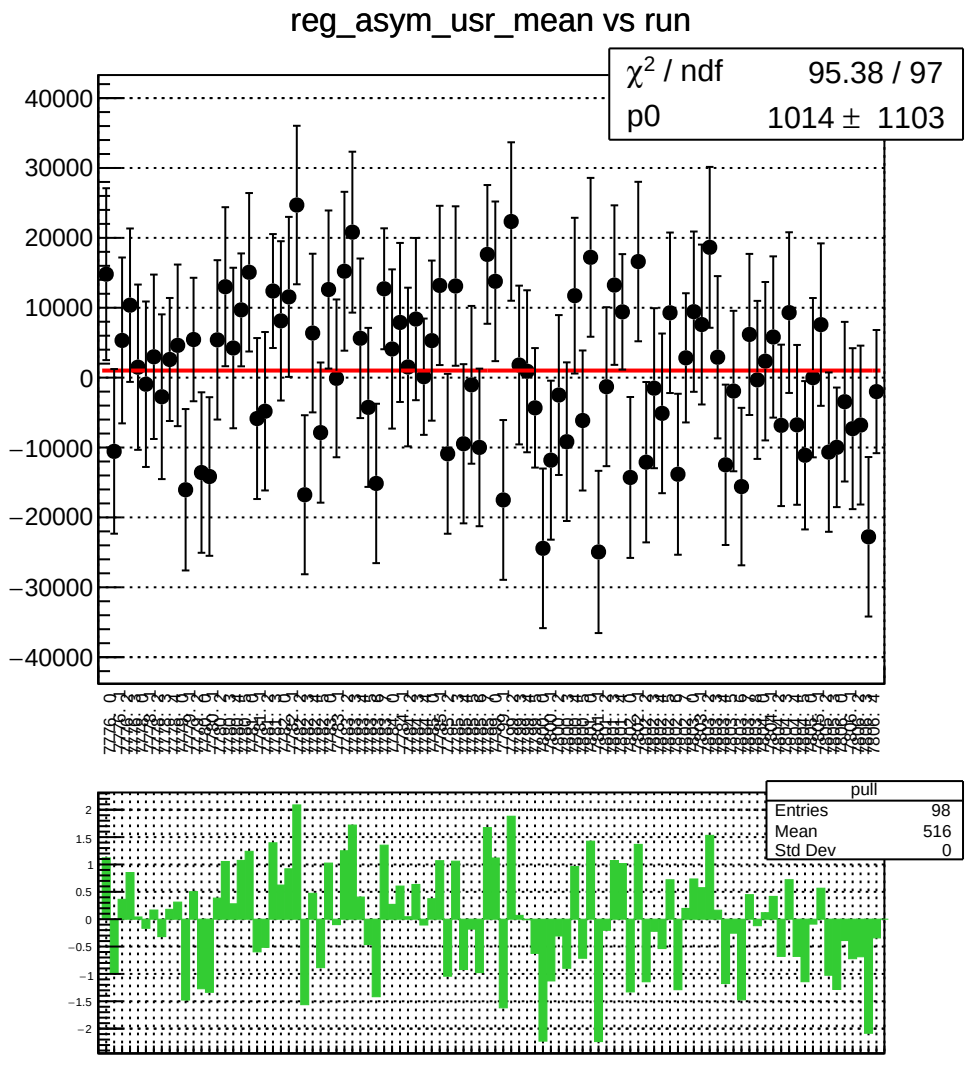

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 6.234e+05 / 97
p0 8.237e−11 ± 7.171e−14

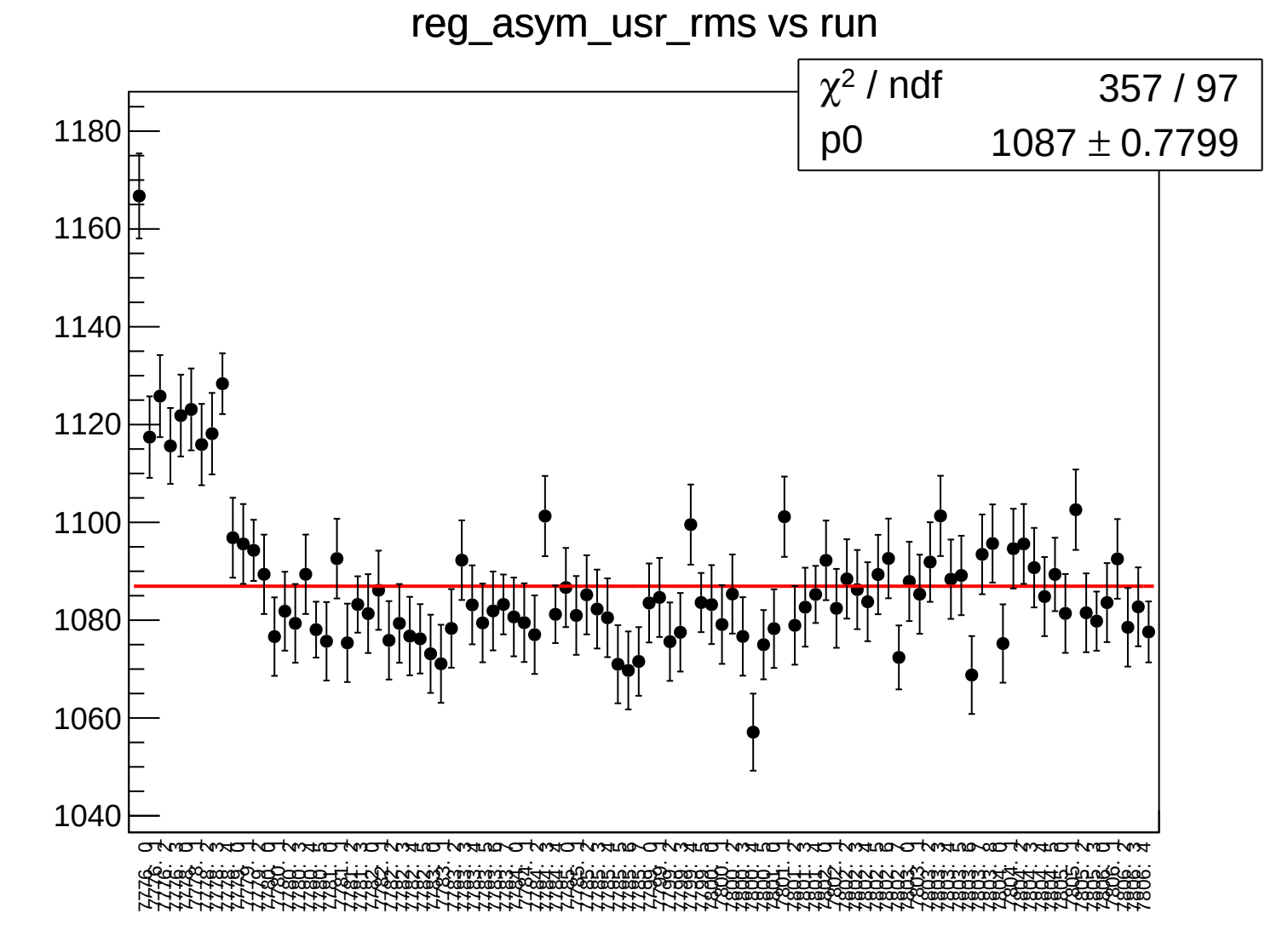

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 90.78 / 97
p0 −0.02883 ± 0.0321
pull
Entries 98
Mean 137.9
Std Dev 0
pull1D
Entries 98
Mean −0.02929
Std Dev 0.962

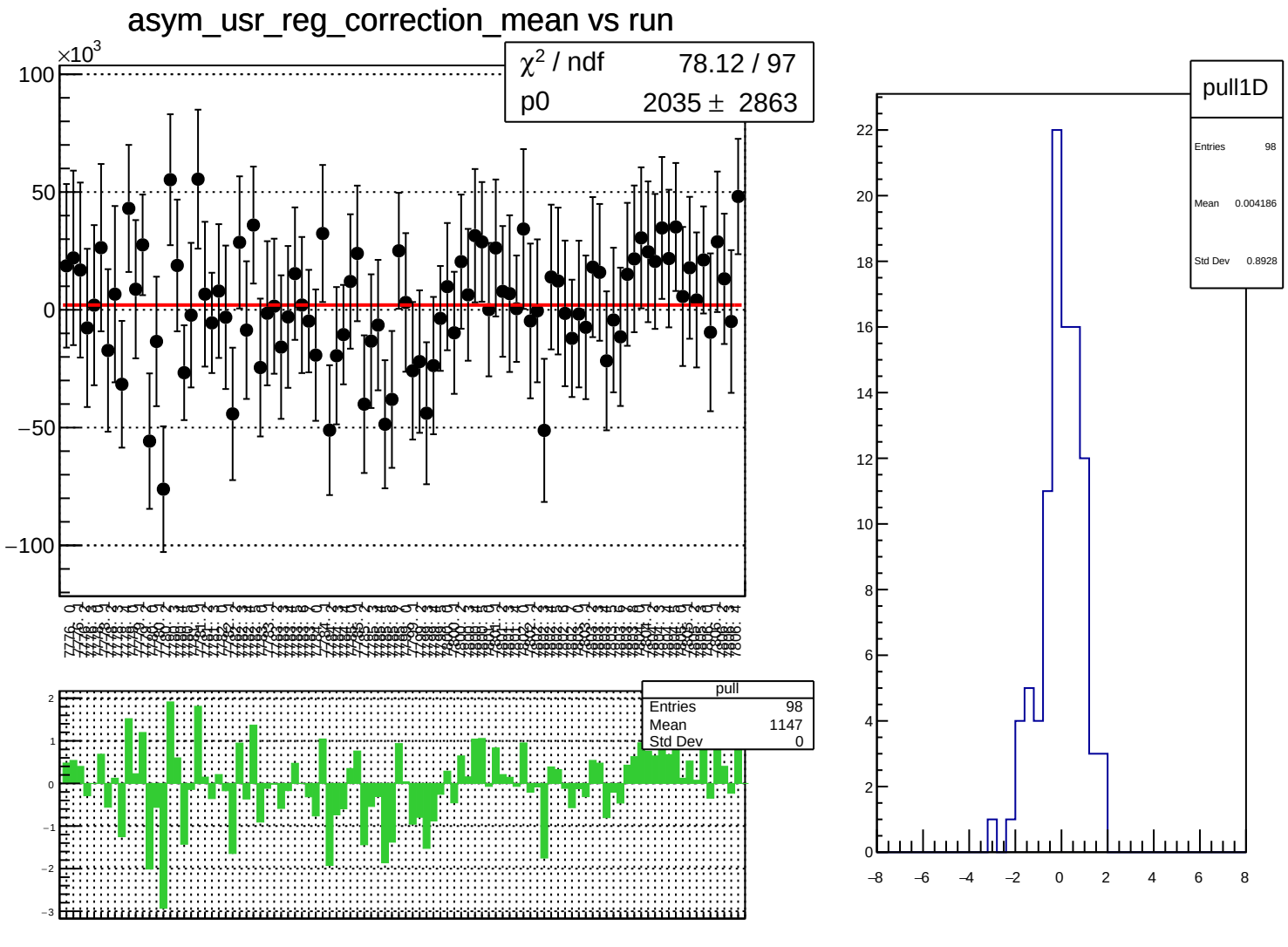

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.62e+05 / 97
p0 30.29 ± 0.0227
55
50
45
40
35
30
25
20
15

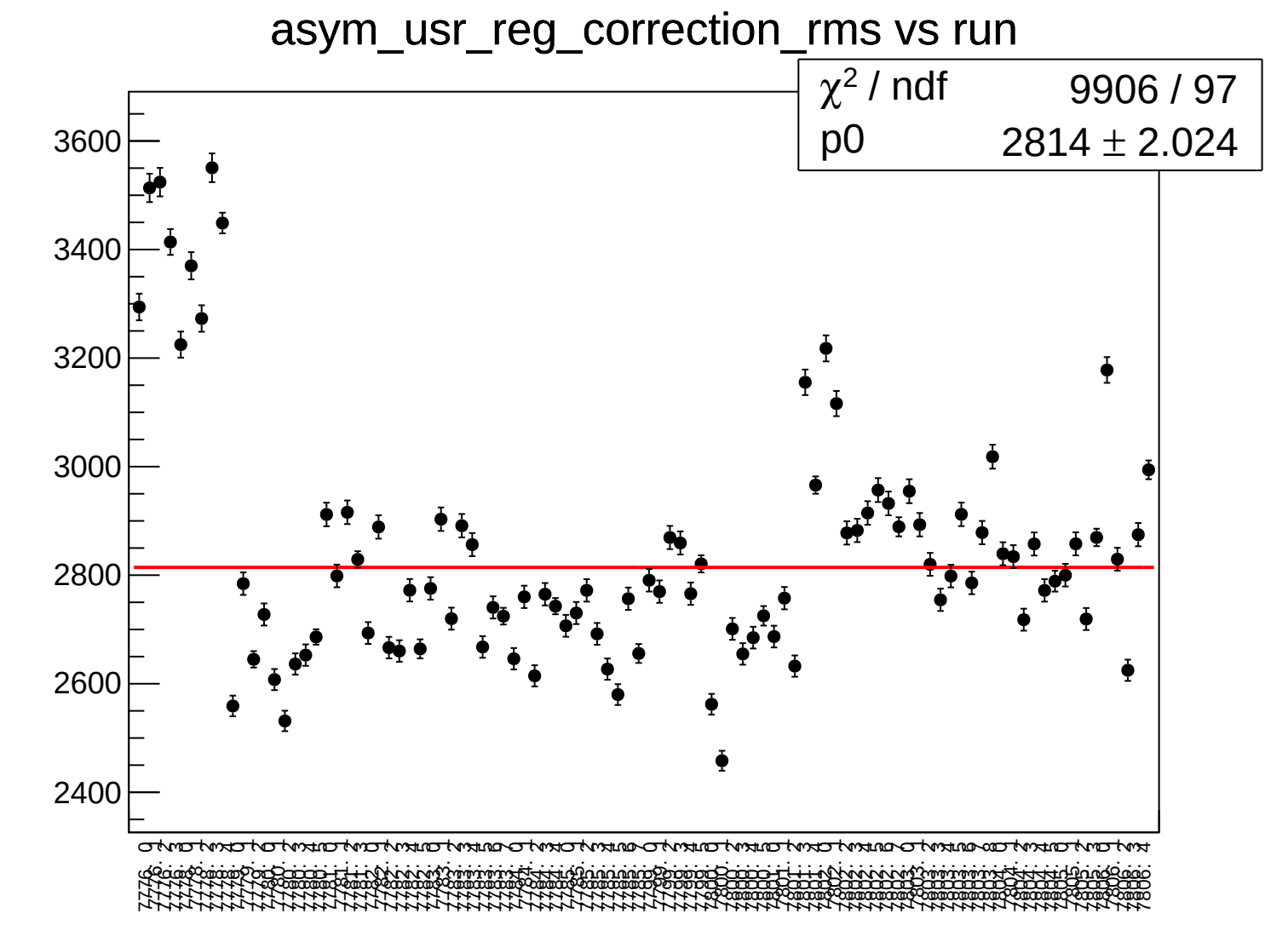

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.78 / 97
p0 −0.02883 ± 0.0321
pull
Entries 98
Mean 137.9
Std Dev 0
pull1D
Entries 98
Mean −0.02929
Std Dev 0.962

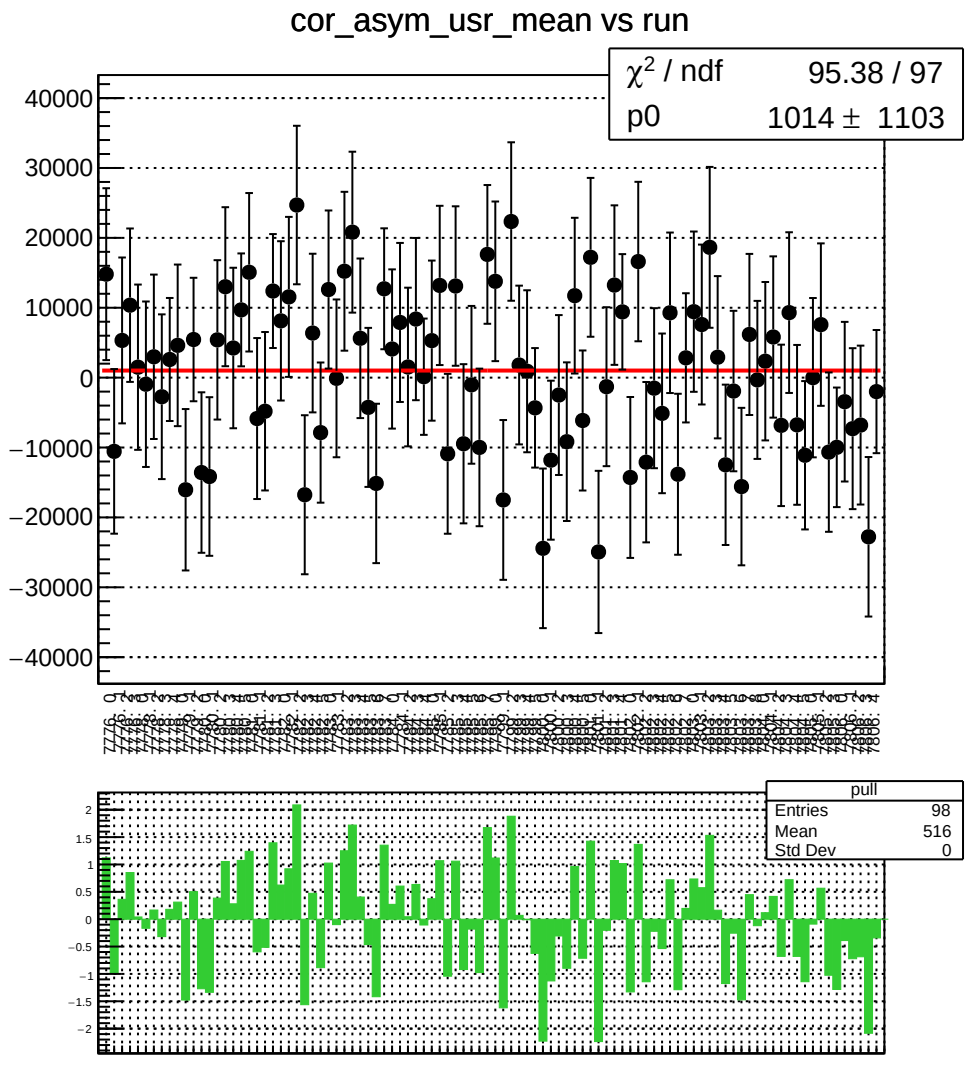

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.62e+05 / 97
p0 30.29 ± 0.0227
55
50
45
40
35
30
25
20
15

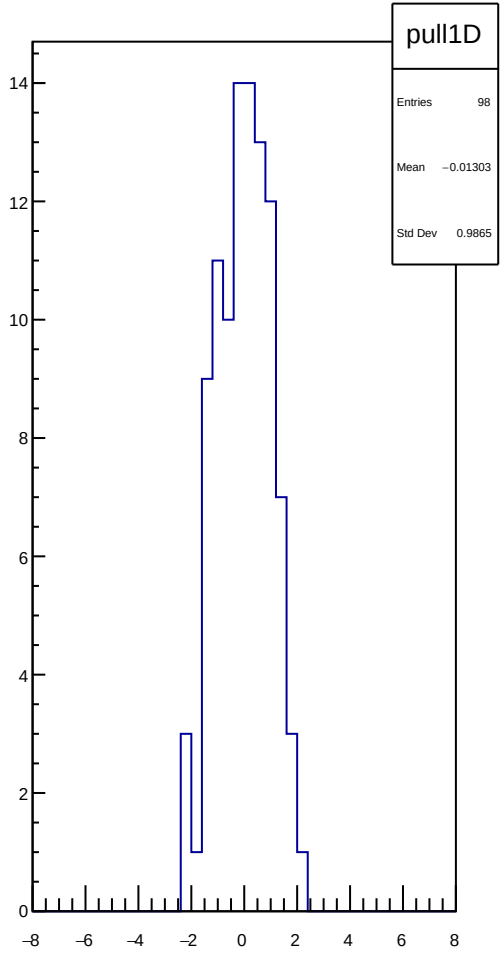

reg_asym_usr_mean vs run
χ² / ndf 95.38 / 97
p0 1014 ± 1103
pull
Entries 98
Mean 516
Std Dev 0
pull1D
Entries 98
Mean −0.01303
Std Dev 0.9865

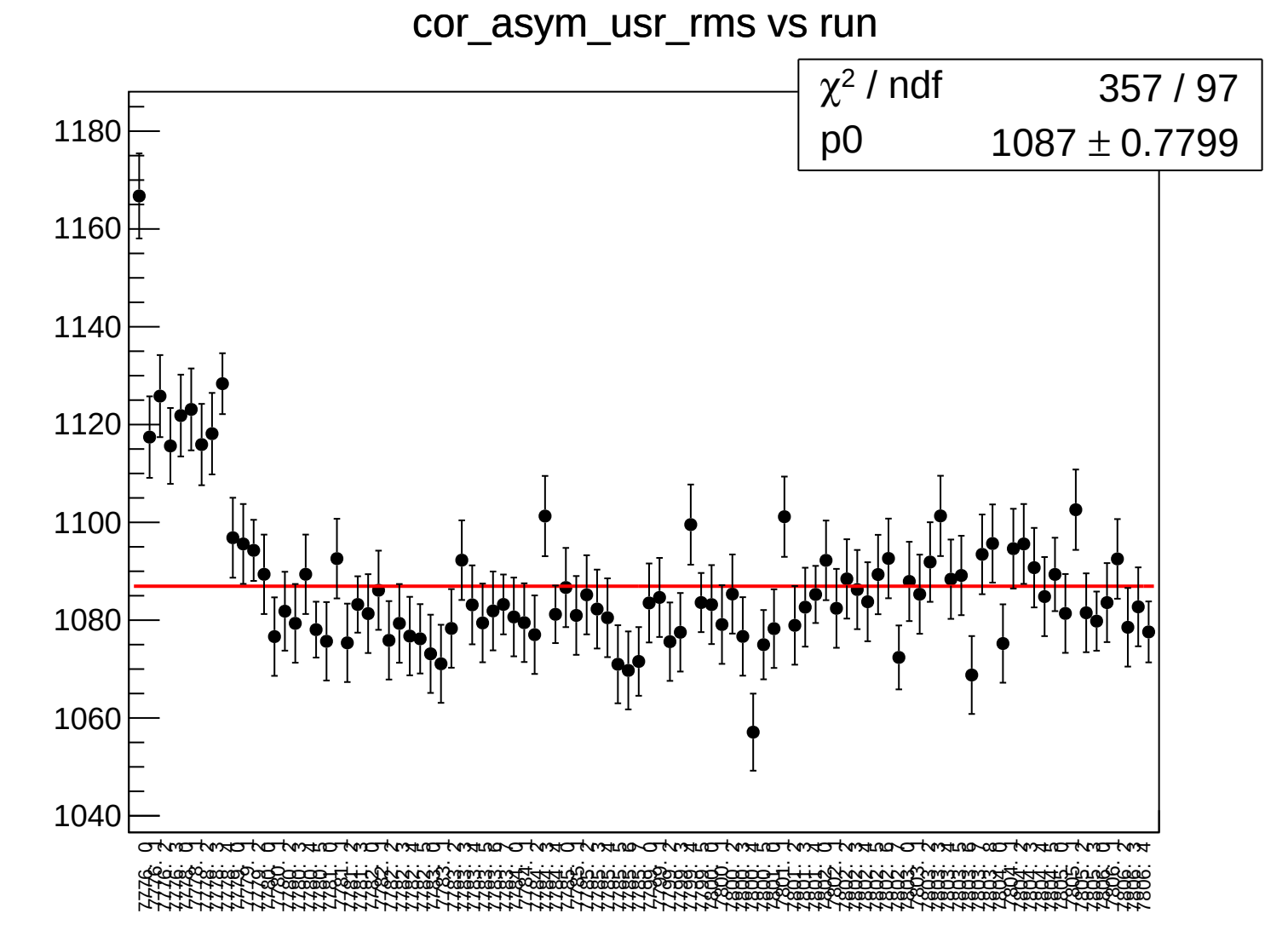

reg_asym_usr_rms vs run
χ² / ndf 357 / 97
p0 1087 ± 0.7799
1180
1160
1140
1120
1100
1080
1060
1040

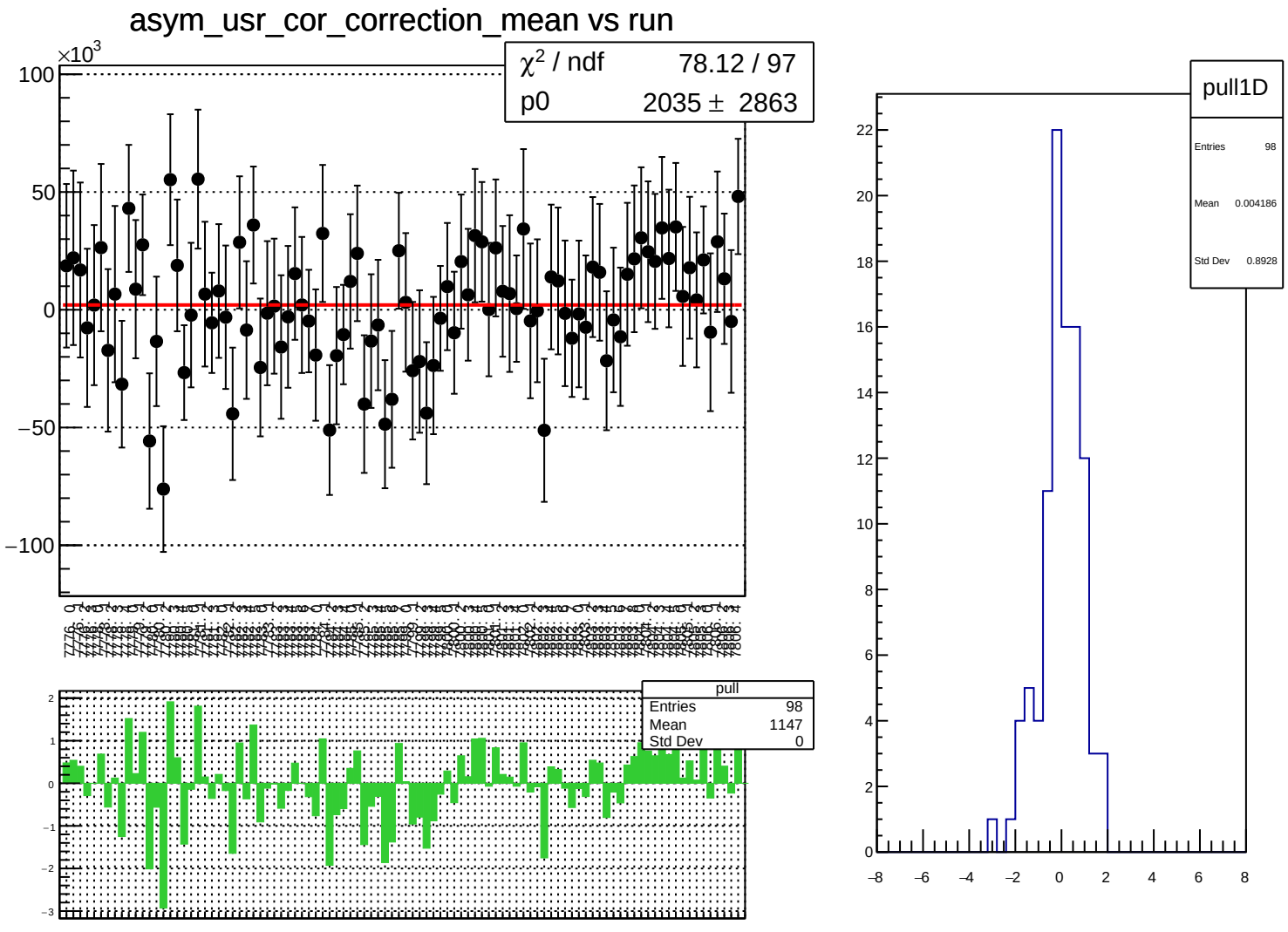

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 78.12 / 97
p0 2035 ± 2863
100
50
0
−50
−100
pull
Entries 98
Mean 1147
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.004186
Std Dev 0.8928
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

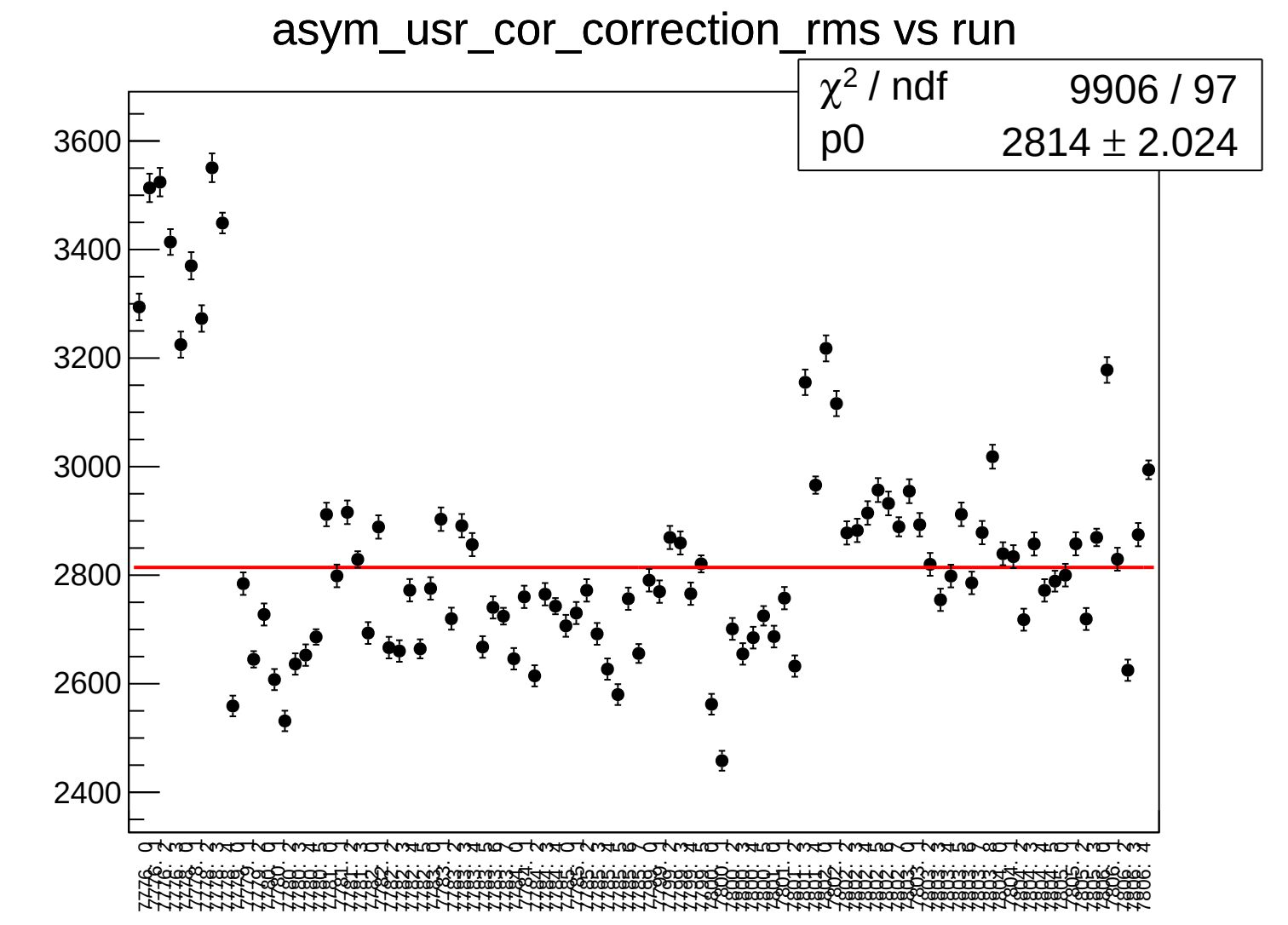

asym_usr_reg_correction_rms vs run
χ^2 / ndf 9906 / 97
p0 2814 ± 2.024
3600
3400
3200
3000
2800
2600
2400

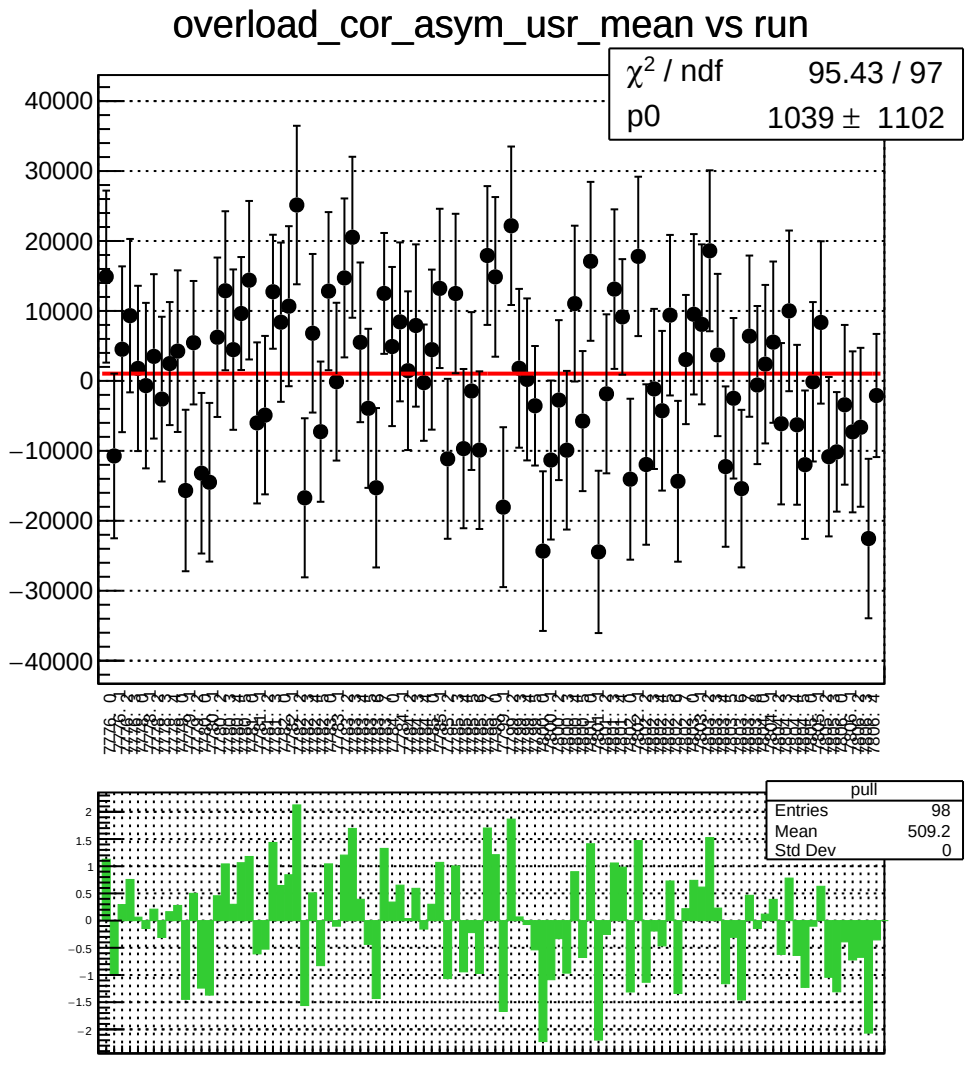

cor_asym_usr_mean vs run
χ² / ndf 95.38 / 97
p0 1014 ± 1103
pull
Entries 98
Mean 516
Std Dev 0

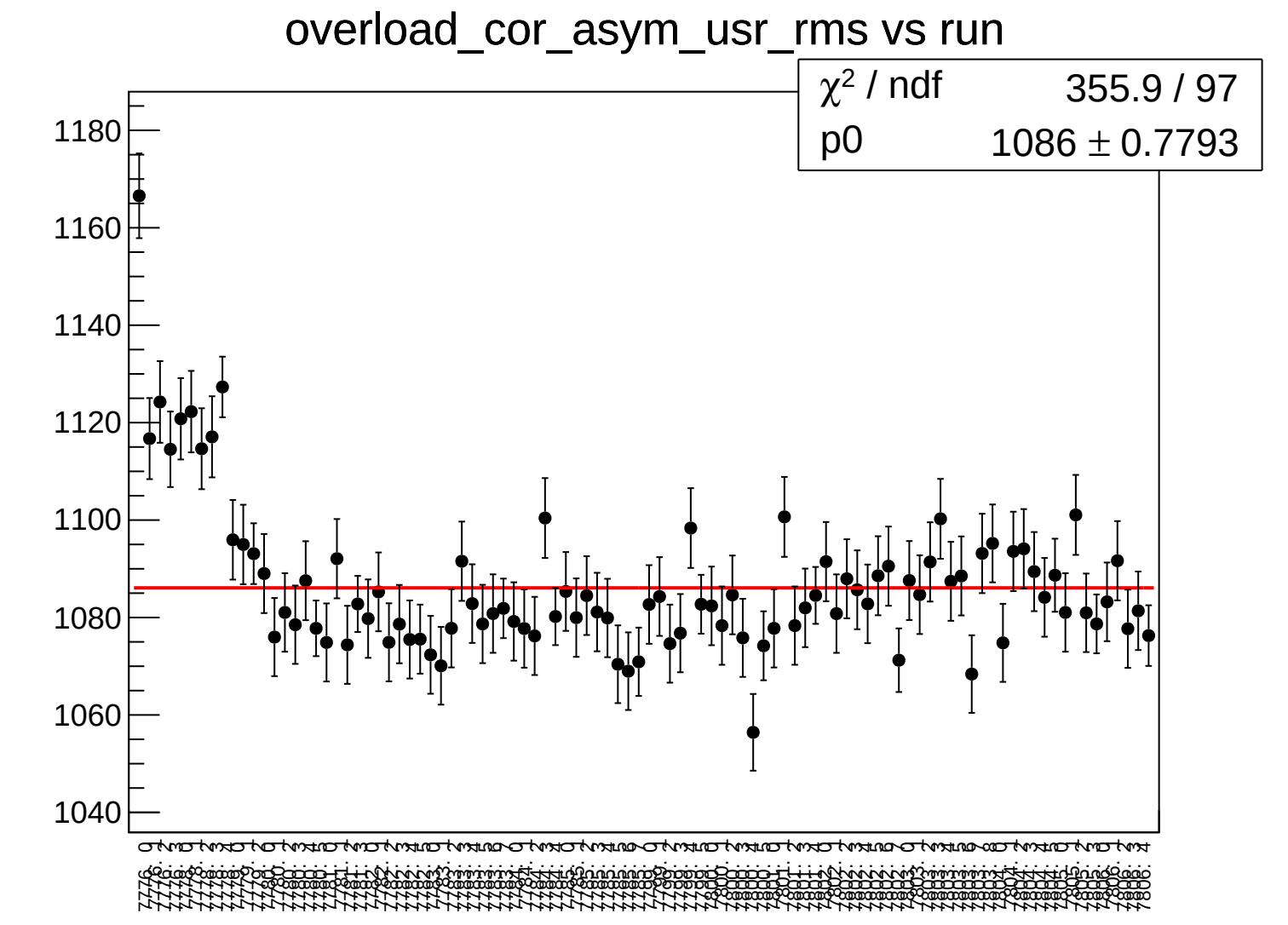

pull1D
Entries 98
Mean −0.01303
Std Dev 0.9865

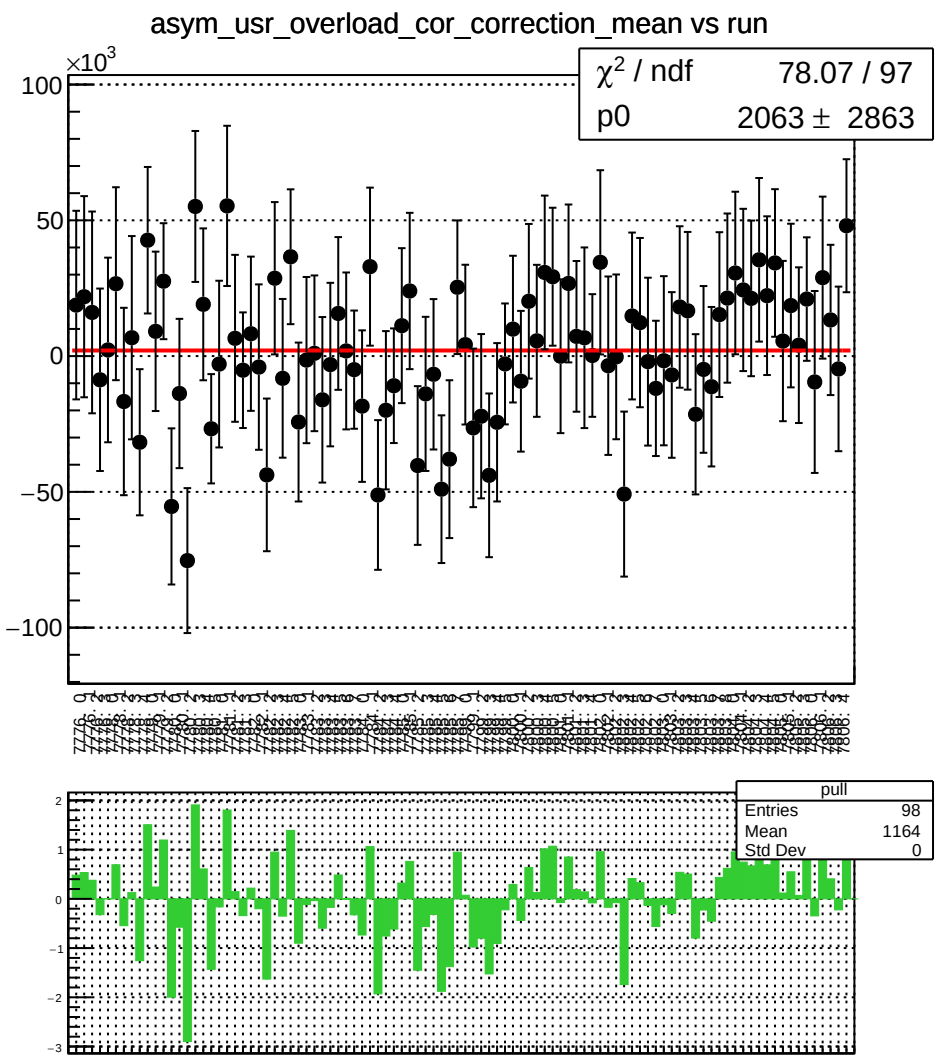

cor_asym_usr_rms vs run
χ² / ndf 357 / 97
p0 1087 ± 0.7799
1180
1160
1140
1120
1100
1080
1060
1040

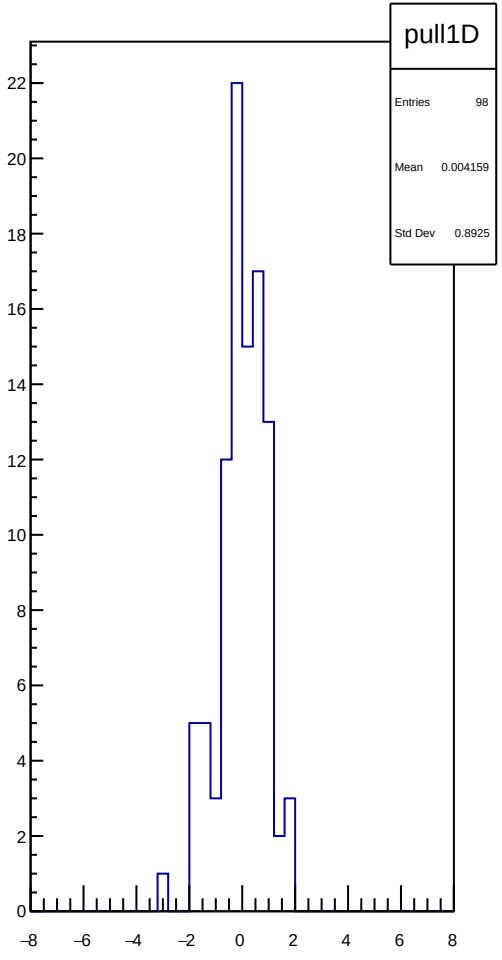

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 78.12 / 97
p0 2035 ± 2863
100
50
0
−50
−100
pull
Entries 98
Mean 1147
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.004186
Std Dev 0.8928
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_cor_correction_rms vs run
χ^2 / ndf 9906 / 97
p0 2814 ± 2.024
3600
3400
3200
3000
2800
2600
2400


overload_cor_asym_usr_mean vs run
χ² / ndf 95.43 / 97
p0 1039 ± 1102
pull
Entries 98
Mean 509.2
Std Dev 0
pull1D
Entries 98
Mean −0.01297
Std Dev 0.9867


overload_cor_asym_usr_rms vs run
χ² / ndf 355.9 / 97
p0 1086 ± 0.7793
1180
1160
1140
1120
1100
1080
1060
1040


asym_usr_overload_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 78.07 / 97
p0 2063 ± 2863
pull
Entries 98
Mean 1164
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 98
Mean 0.004159
Std Dev 0.8925
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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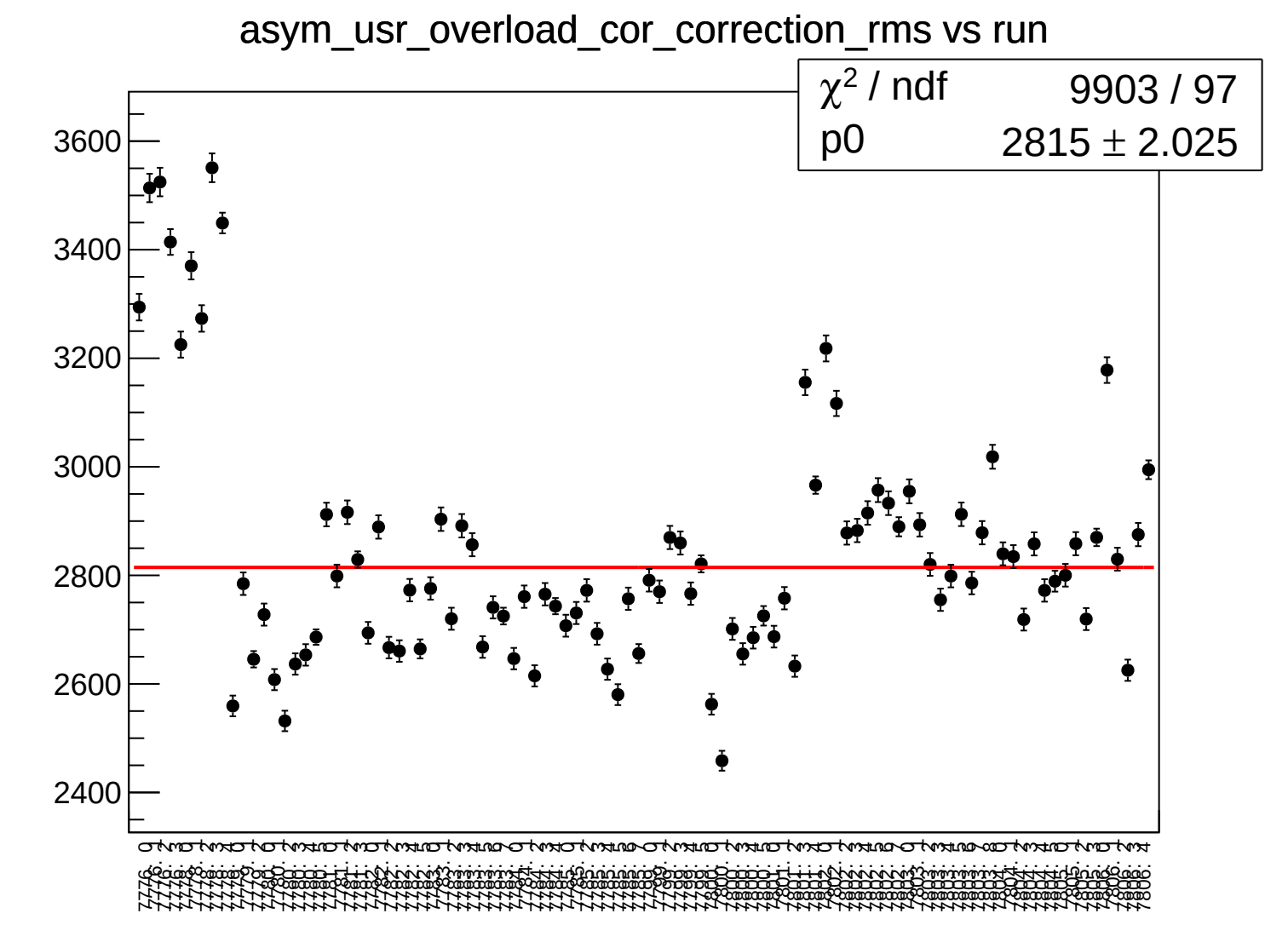
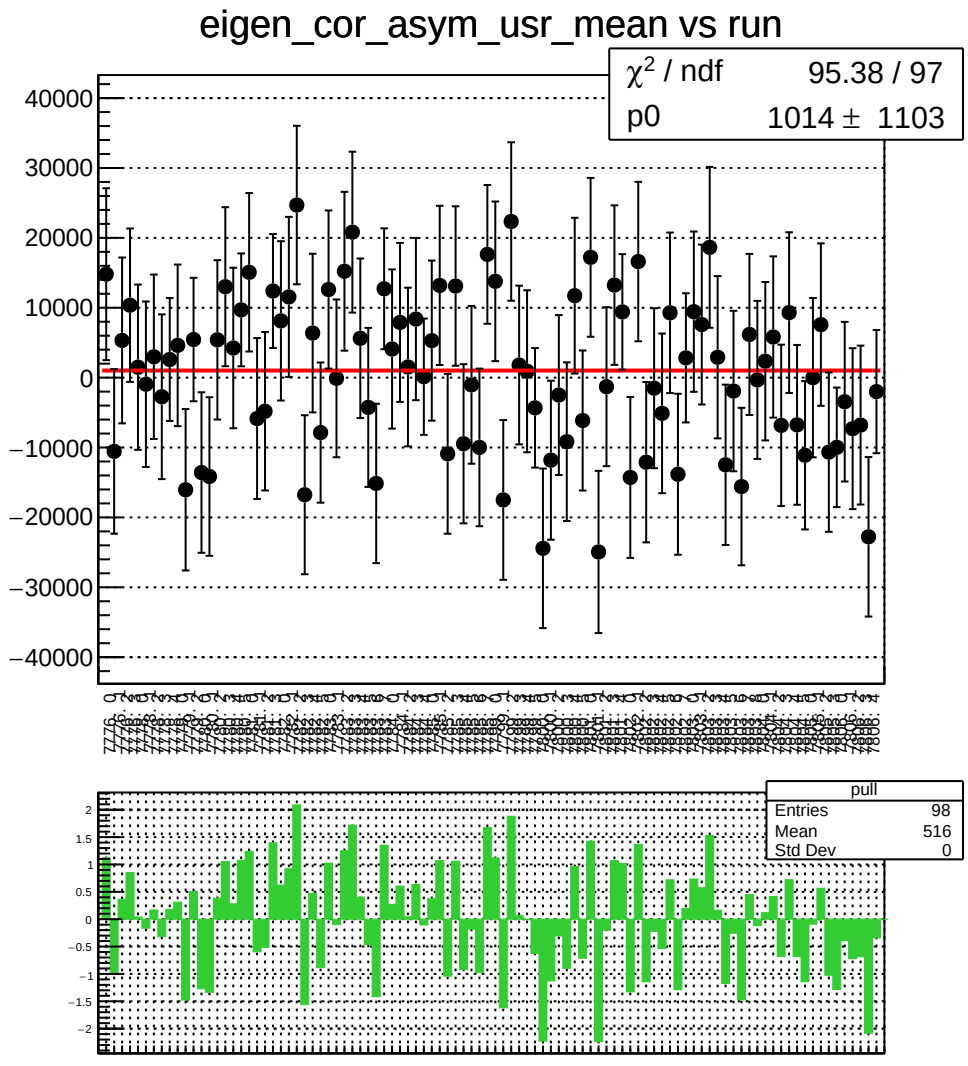
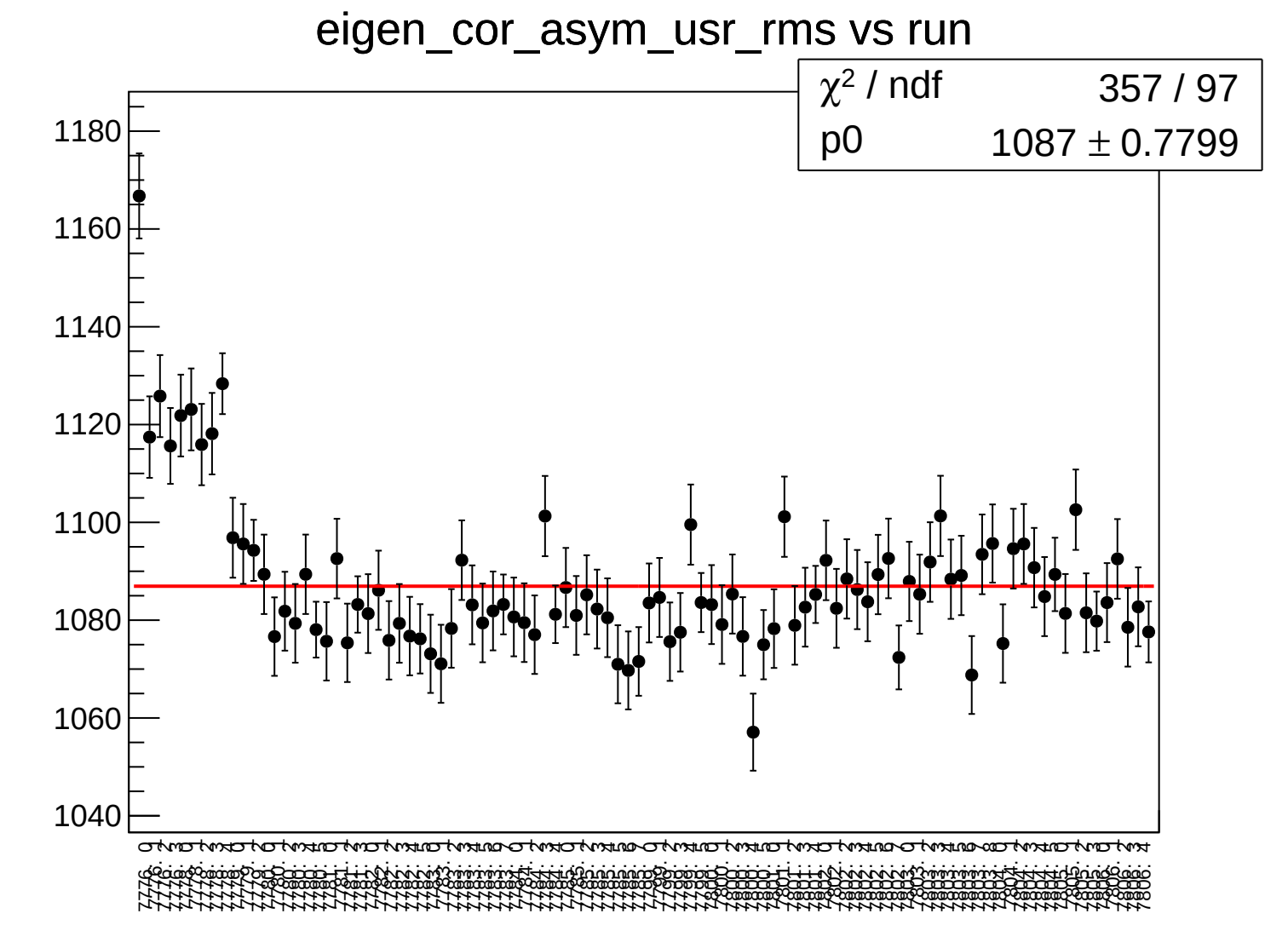
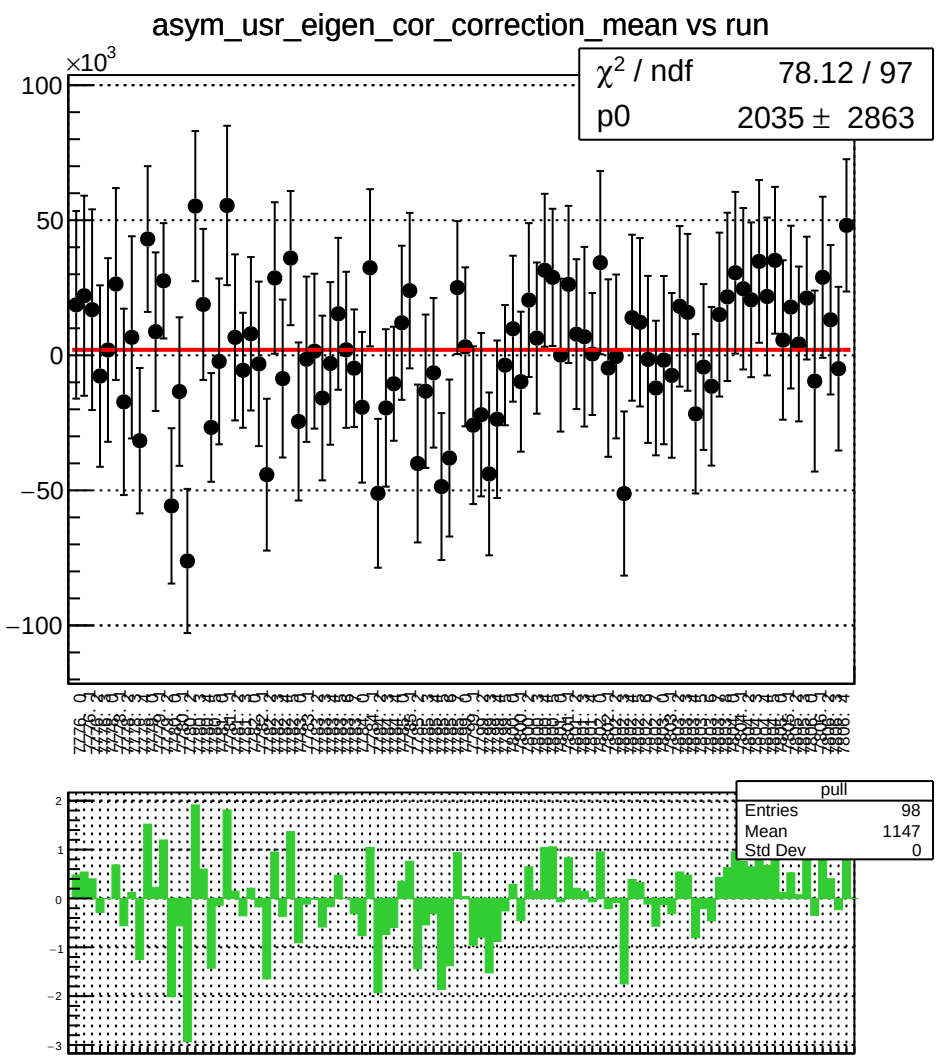
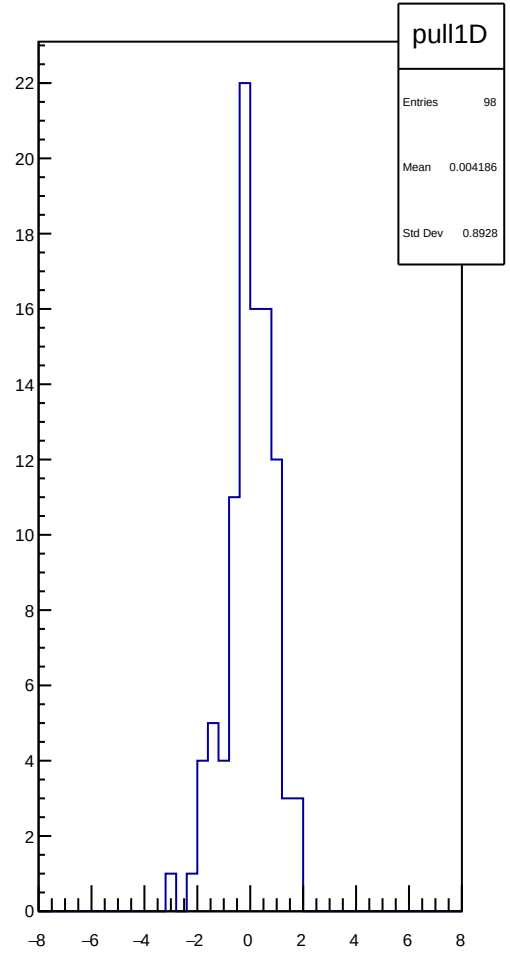
0
2
4
6
8

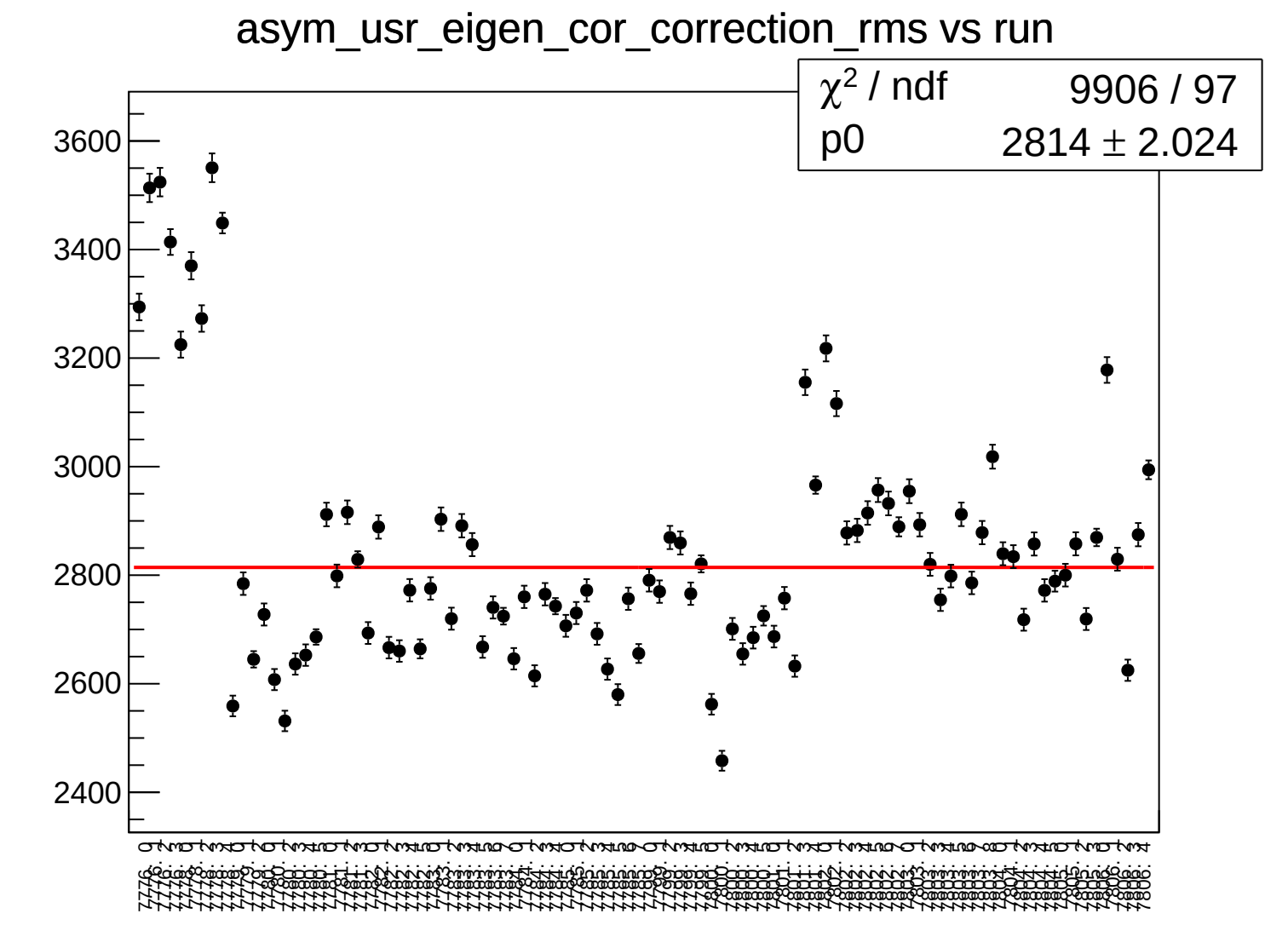

asym_usr_overload_cor_correction_rms vs run
χ^2 / ndf 9903 / 97
p0 2815 ± 2.025
3600
3400
3200
3000
2800
2600
2400

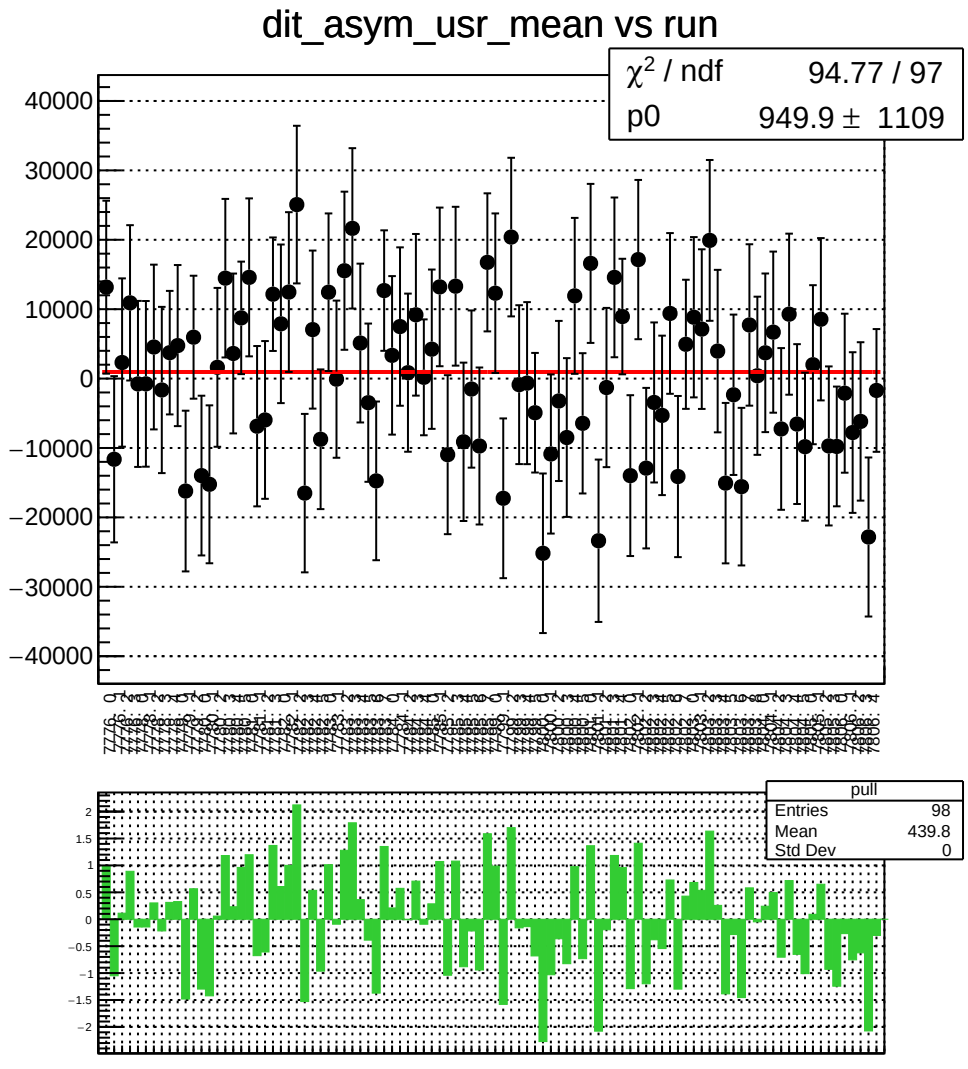

eigen_cor_asym_usr_mean vs run
χ² / ndf 95.38 / 97
p0 1014 ± 1103
pull
Entries 98
Mean 516
Std Dev 0
pull1D
Entries 98
Mean −0.01303
Std Dev 0.9865

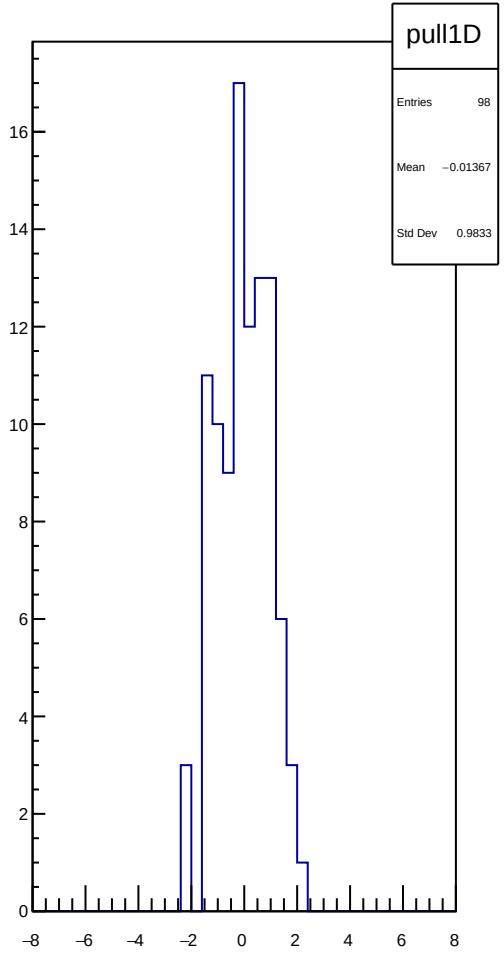

eigen_cor_asym_usr_rms vs run
χ² / ndf 357 / 97
p0 1087 ± 0.7799
1180
1160
1140
1120
1100
1080
1060
1040

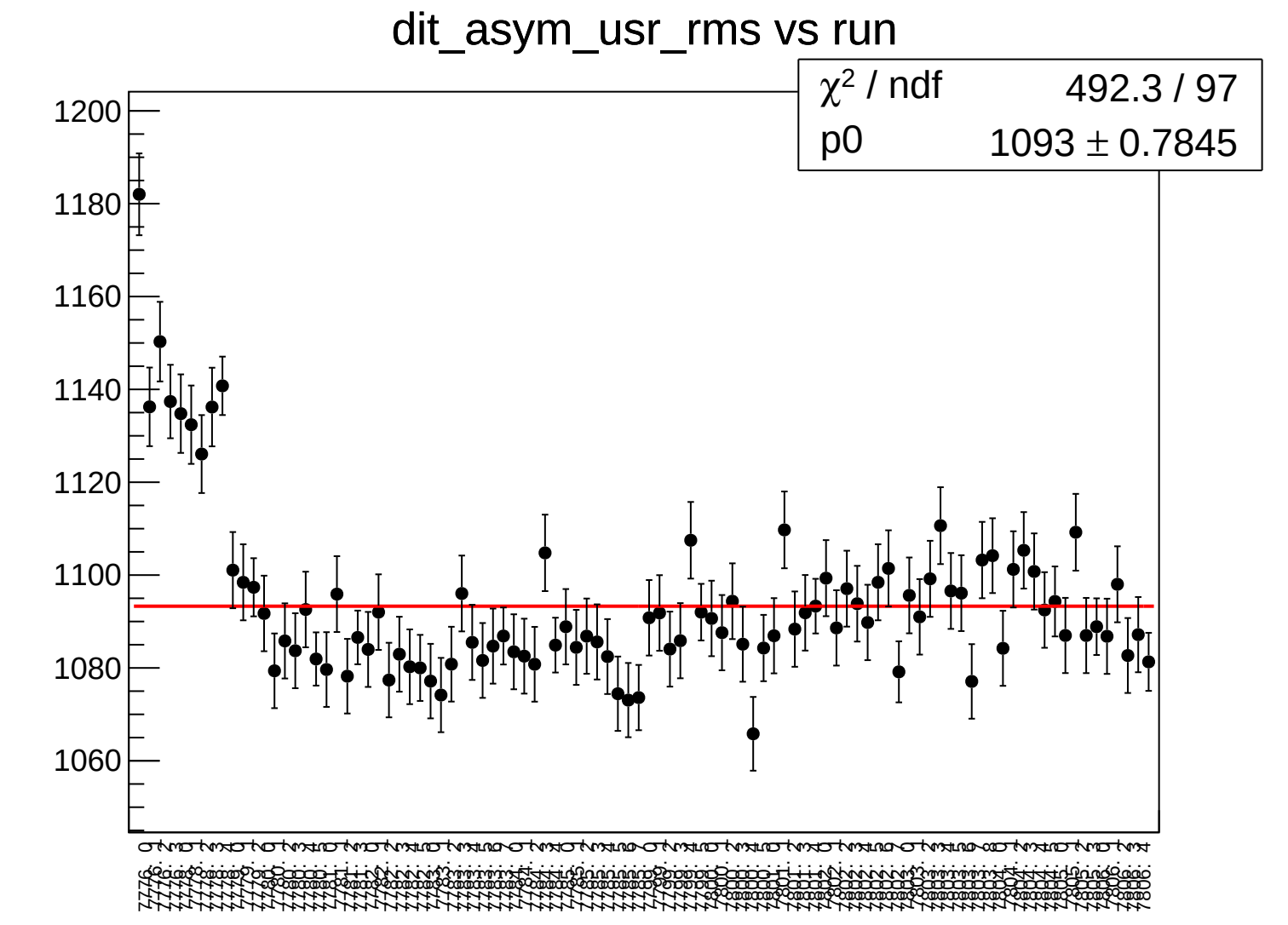

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.12 / 97
p0 2035 ± 2863
100
50
0
−50
−100
pull
Entries 98
Mean 1147
Std Dev 0
2
1
0
−1
−2
−3

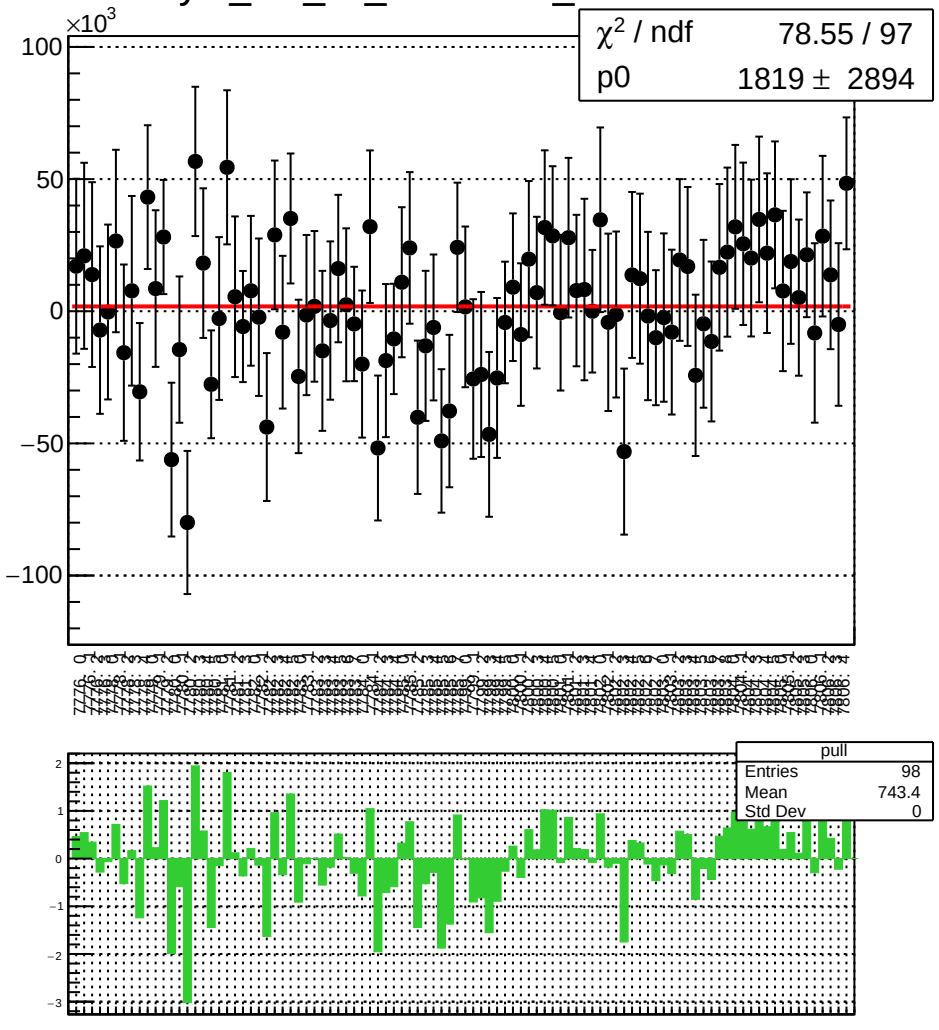

pull1D
Entries 98
Mean 0.004186
Std Dev 0.8928
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

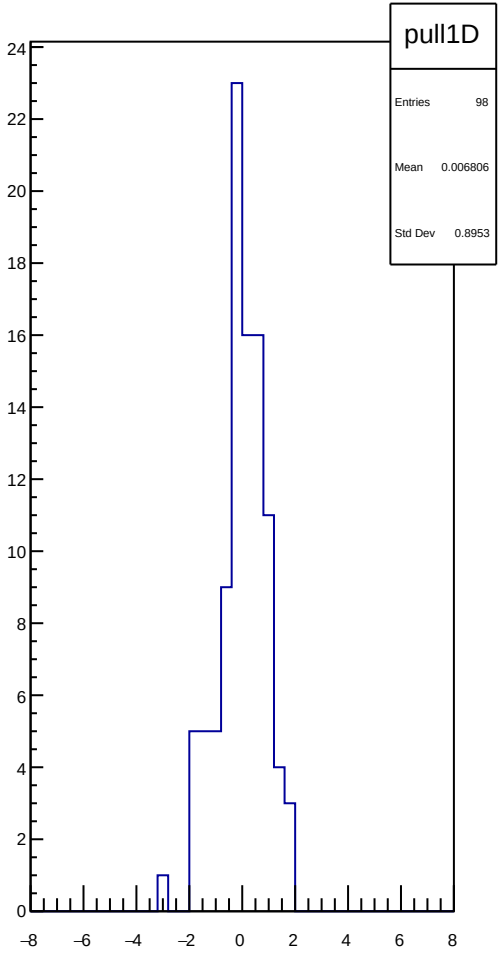

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 9906 / 97
p0 2814 ± 2.024
3600
3400
3200
3000
2800
2600
2400

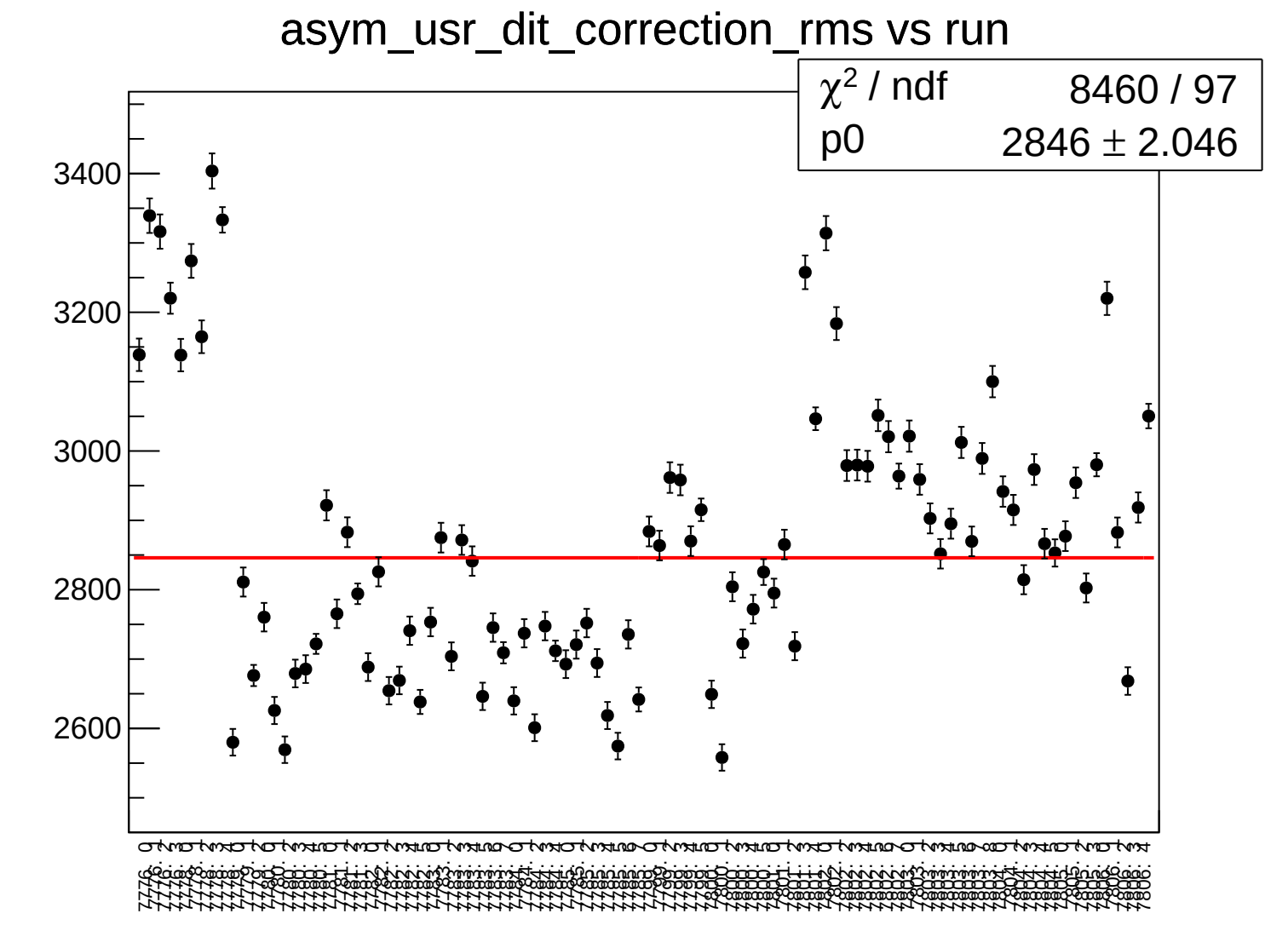

dit_asym_usr_mean vs run
χ² / ndf 94.77 / 97
p0 949.9 ± 1109
pull
Entries 98
Mean 439.8
Std Dev 0

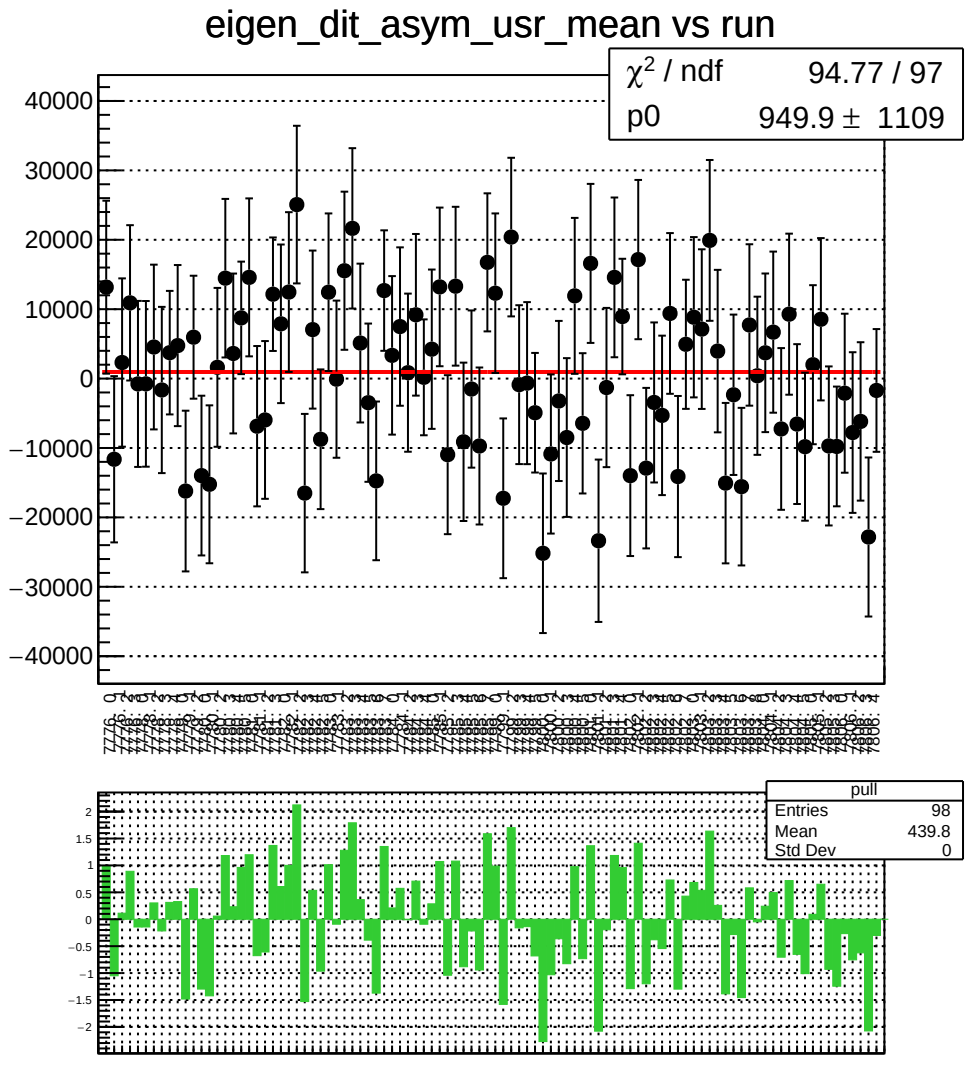

pull1D
Entries 98
Mean −0.01367
Std Dev 0.9833

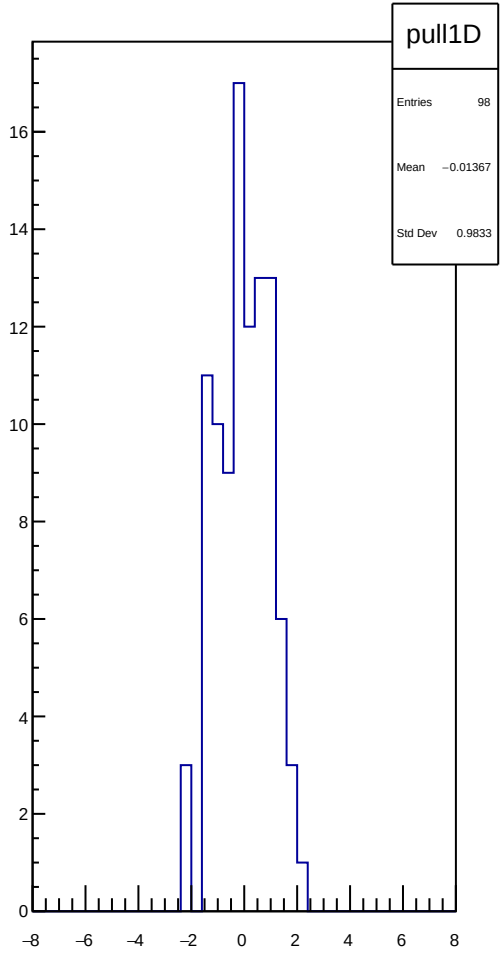

dit_asym_usr_rms vs run
χ² / ndf 492.3 / 97
p0 1093 ± 0.7845
1200
1180
1160
1140
1120
1100
1080
1060

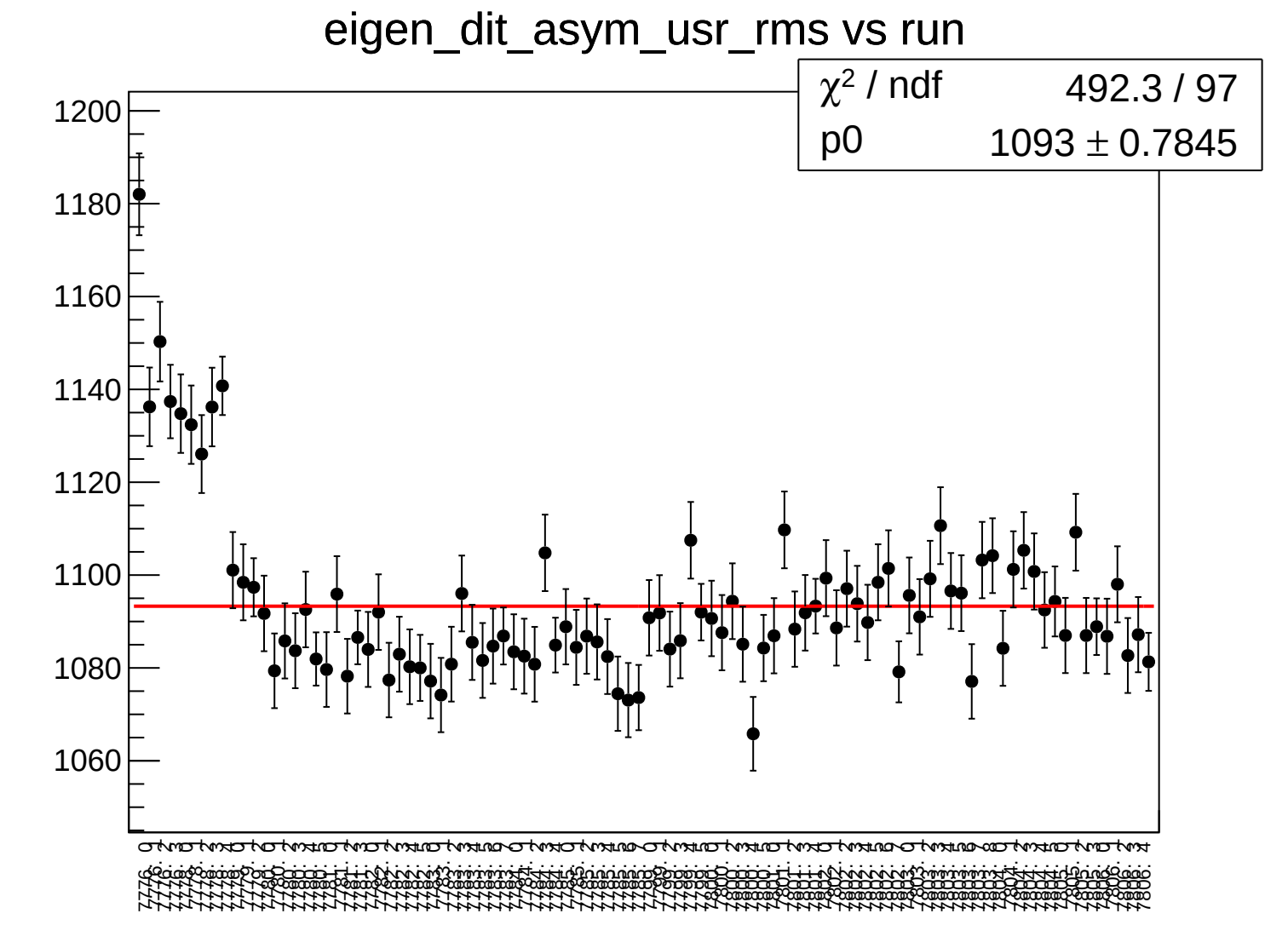

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 78.55 / 97
p0 1819 ± 2894
100
50
0
−50
−100
pull
Entries 98
Mean 743.4
Std Dev 0
2
1
0
−1
−2
−3

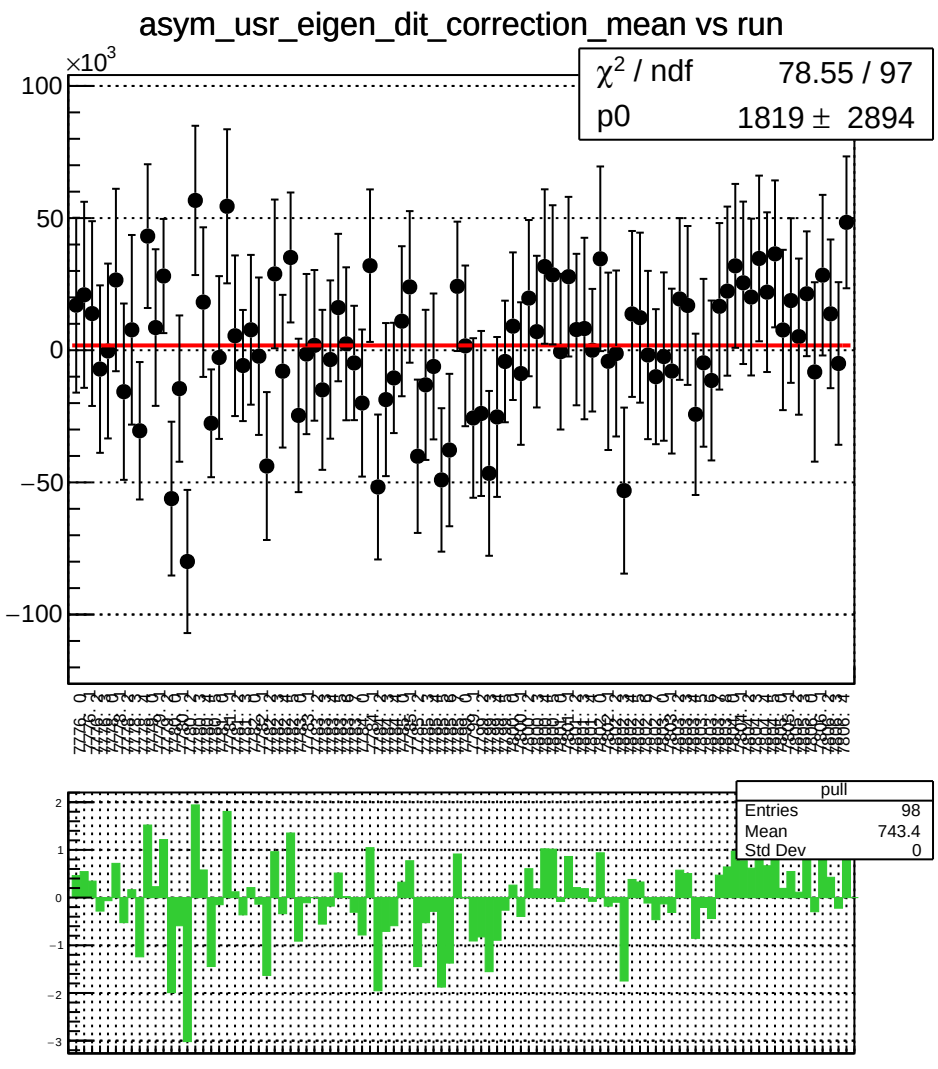

pull1D
Entries 98
Mean 0.006806
Std Dev 0.8953
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

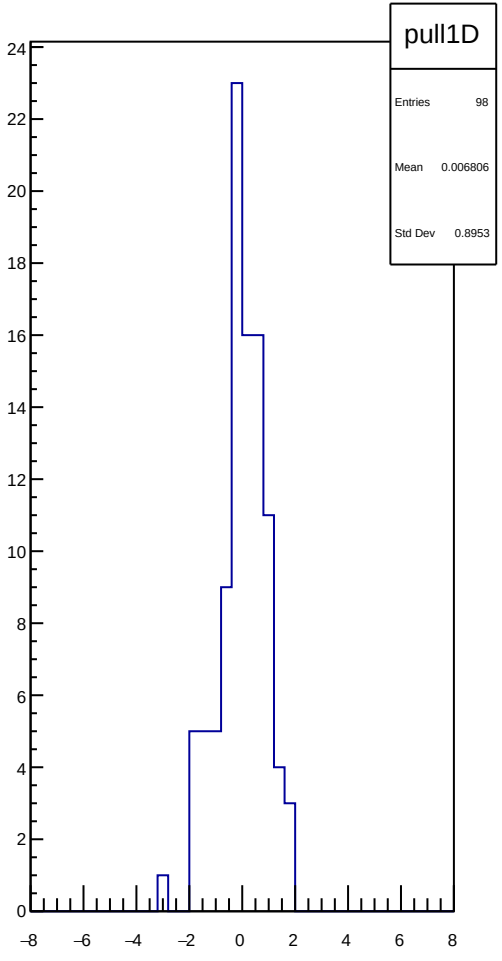

asym_usr_dit_correction_rms vs run
χ² / ndf 8460 / 97
p0 2846 ± 2.046
3400
3200
3000
2800
2600

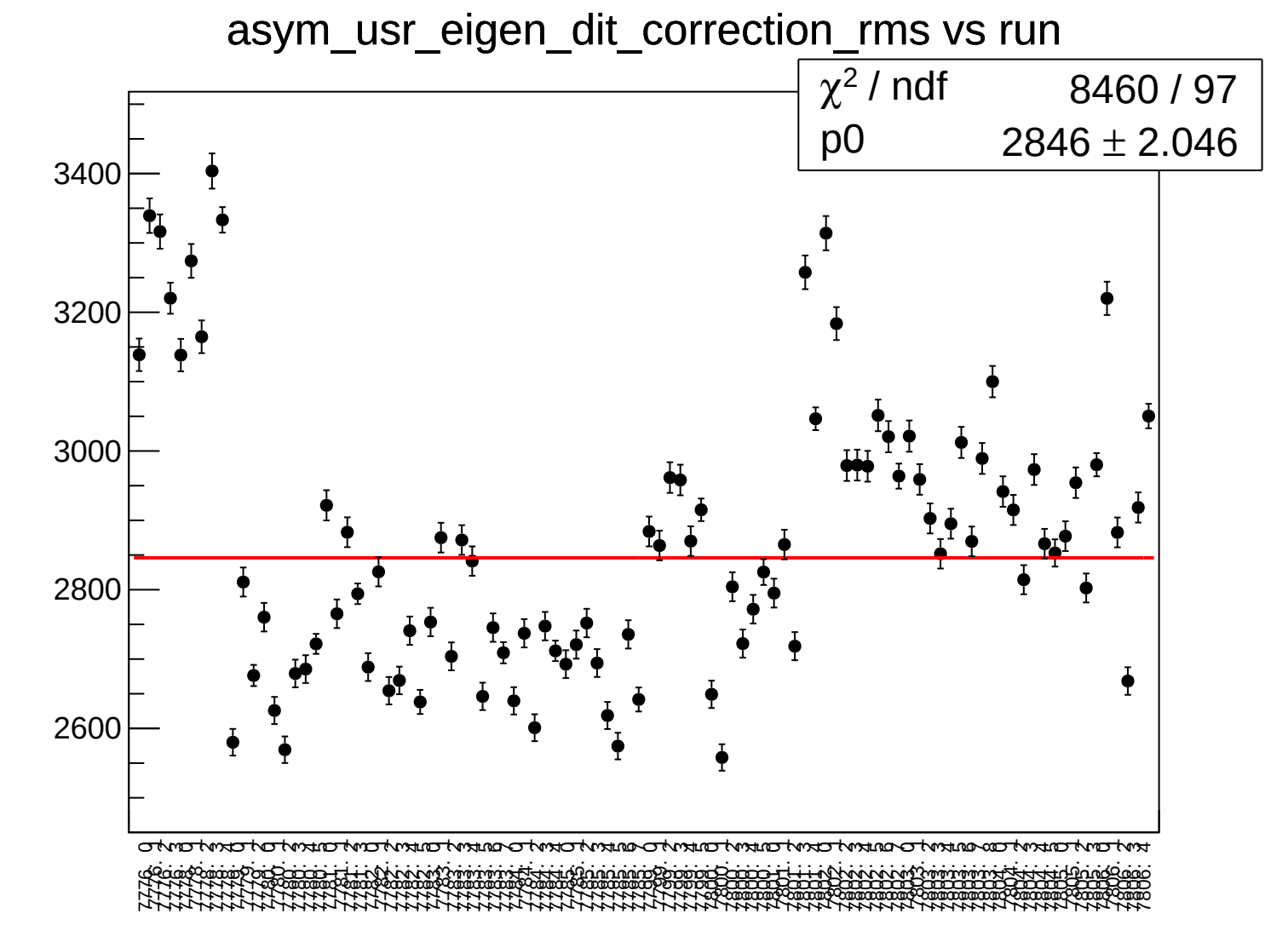

eigen_dit_asym_usr_mean vs run
χ² / ndf 94.77 / 97
p0 949.9 ± 1109
pull
Entries 98
Mean 439.8
Std Dev 0

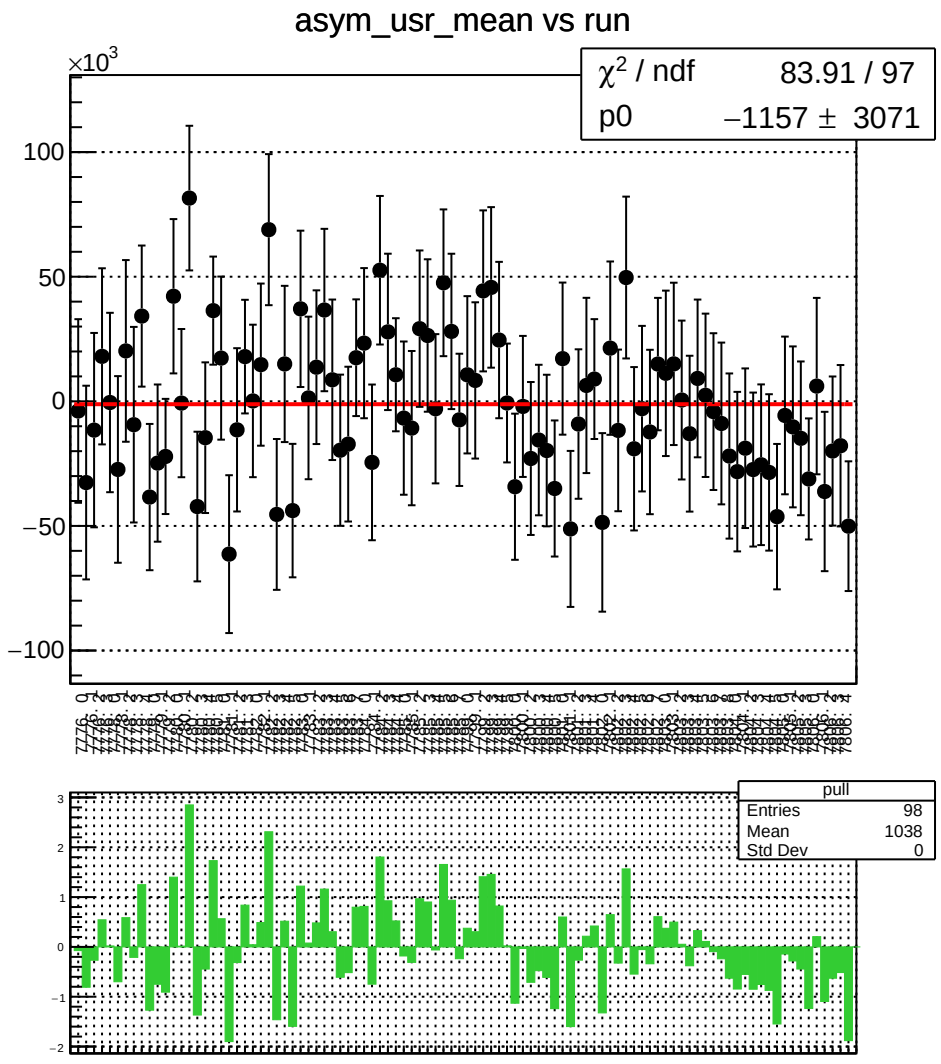

pull1D
Entries 98
Mean −0.01367
Std Dev 0.9833

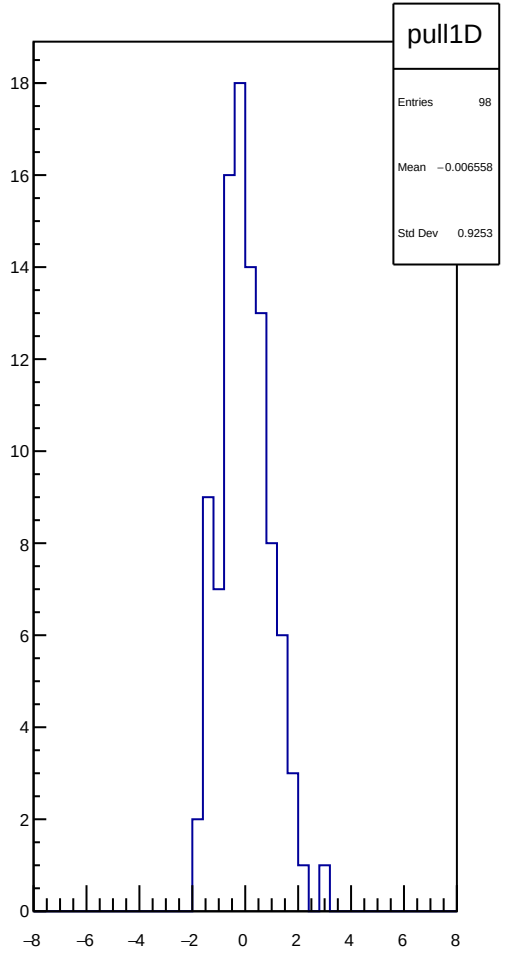

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 492.3 / 97
p0 1093 ± 0.7845
1200
1180
1160
1140
1120
1100
1080
1060

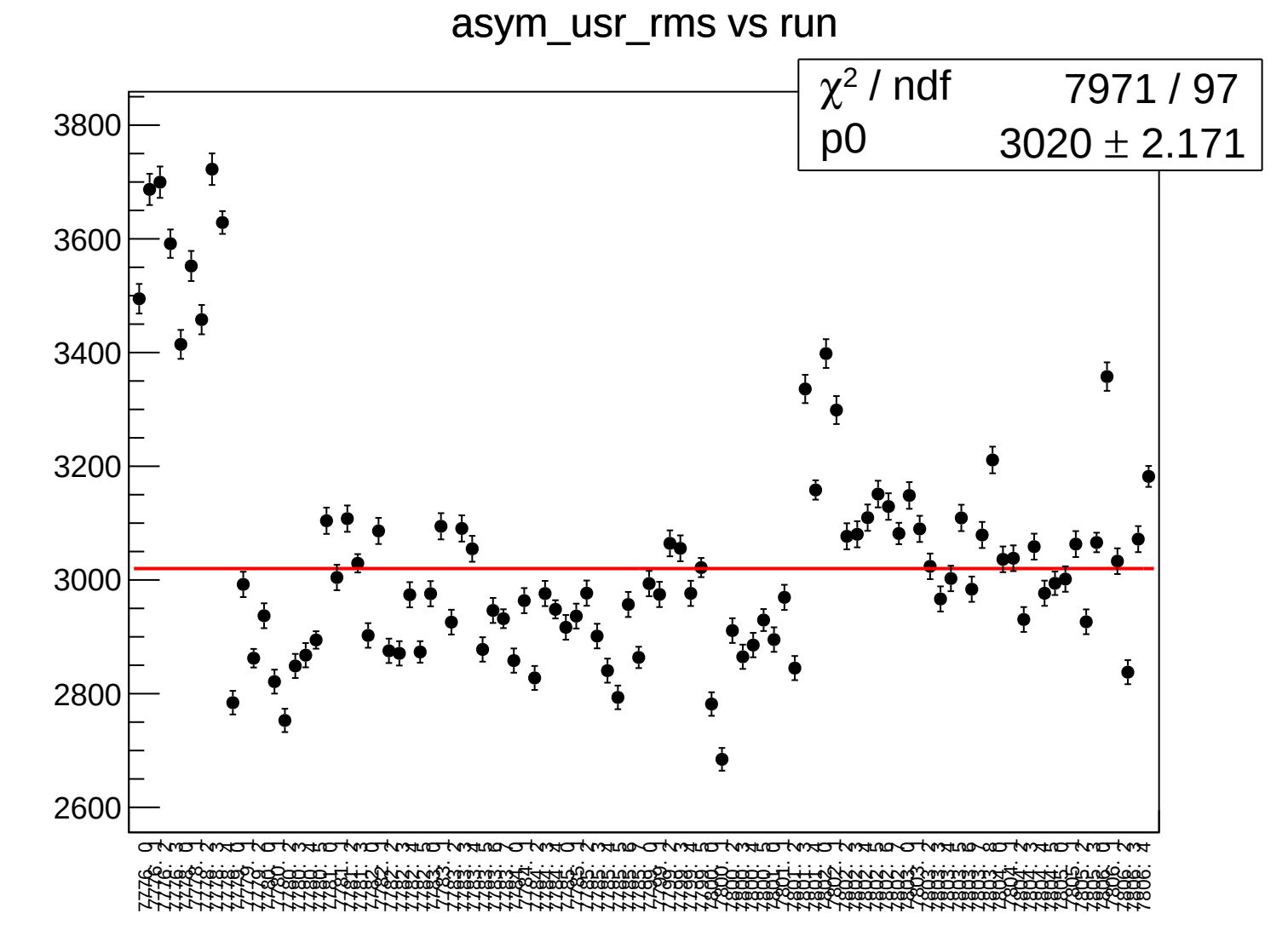

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.55 / 97
p0 1819 ± 2894
pull
Entries 98
Mean 743.4
Std Dev 0

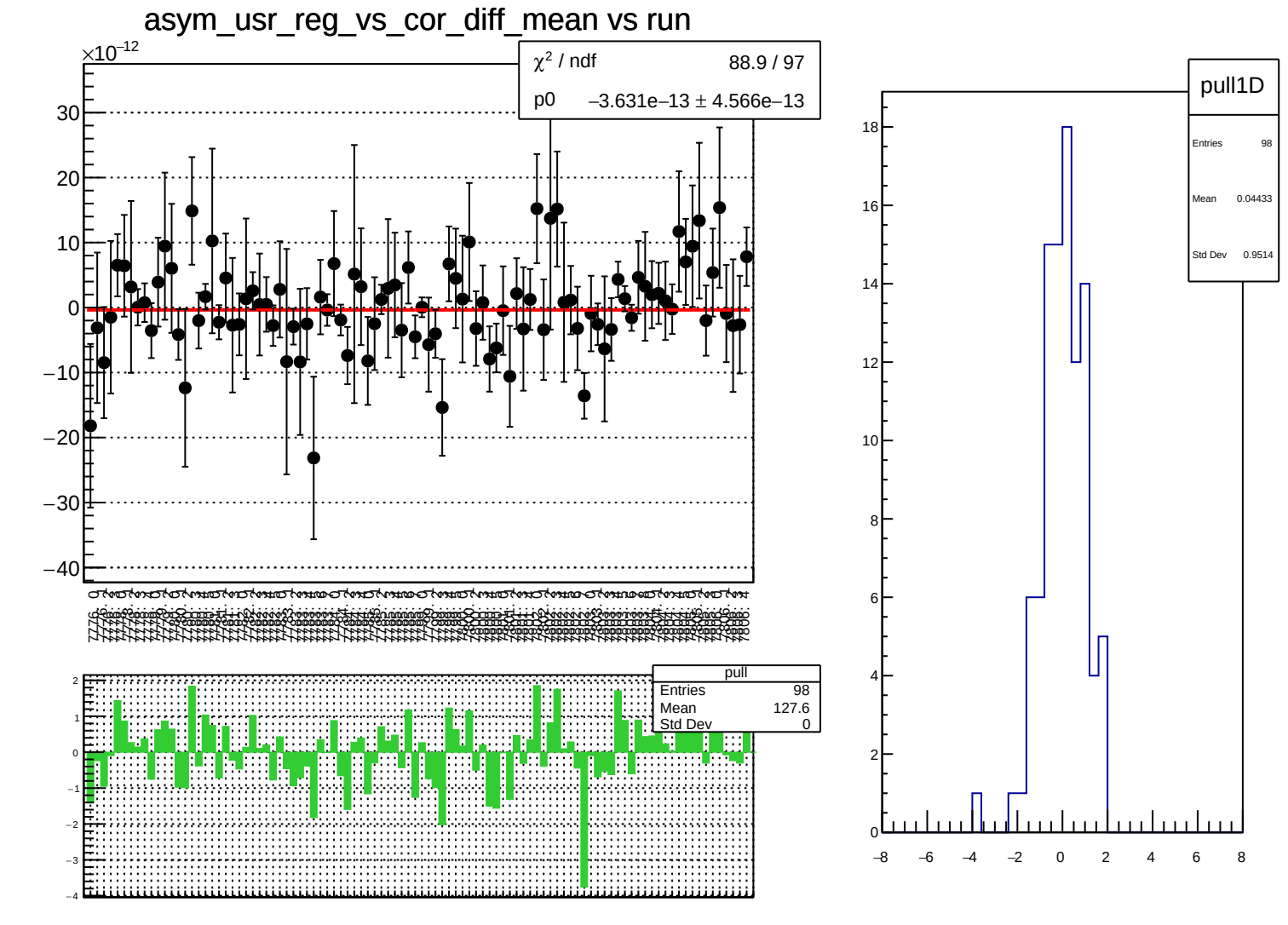

pull1D
Entries 98
Mean 0.006806
Std Dev 0.8953

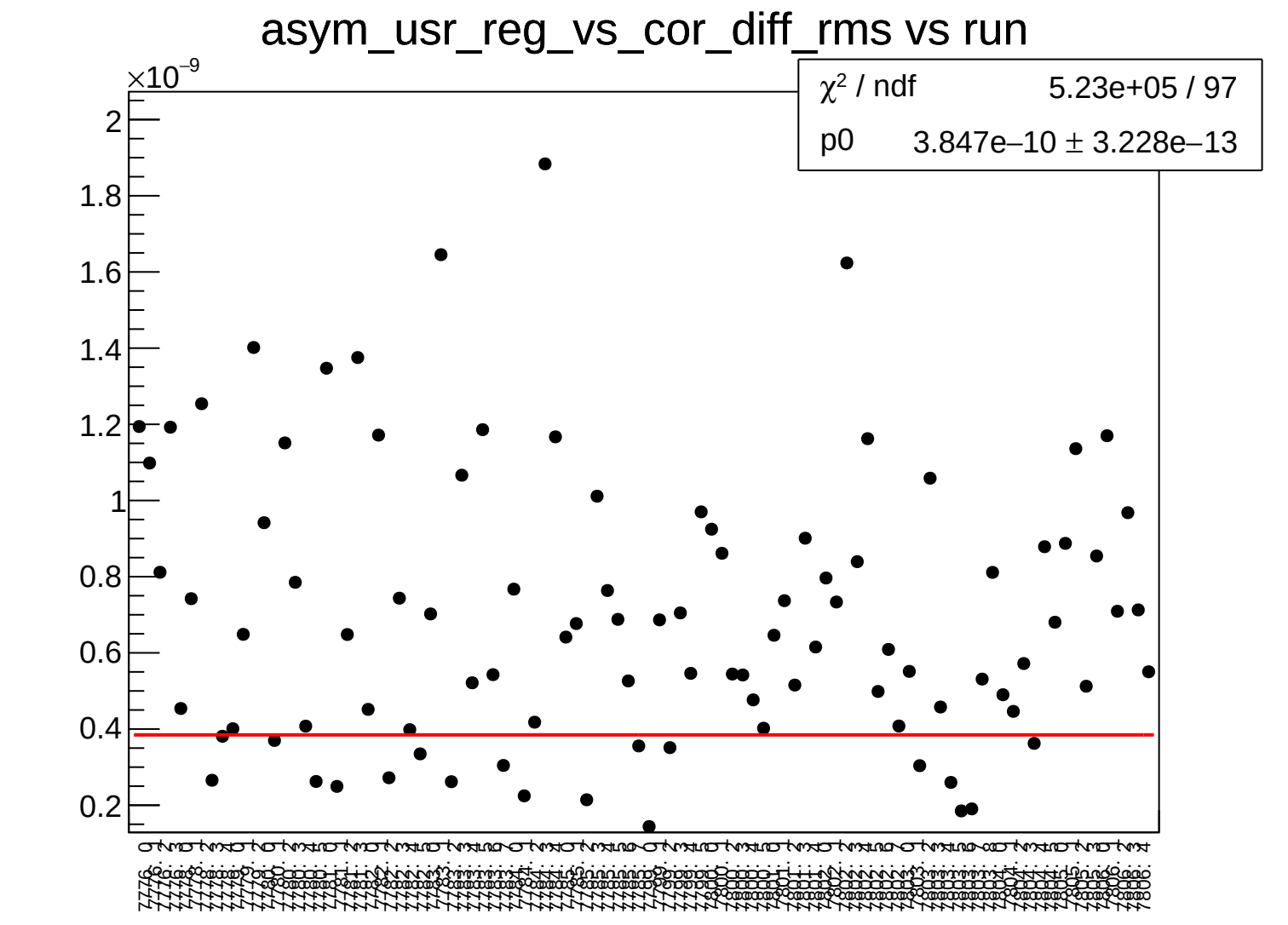

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 8460 / 97
p0 2846 ± 2.046
3400
3200
3000
2800
2600

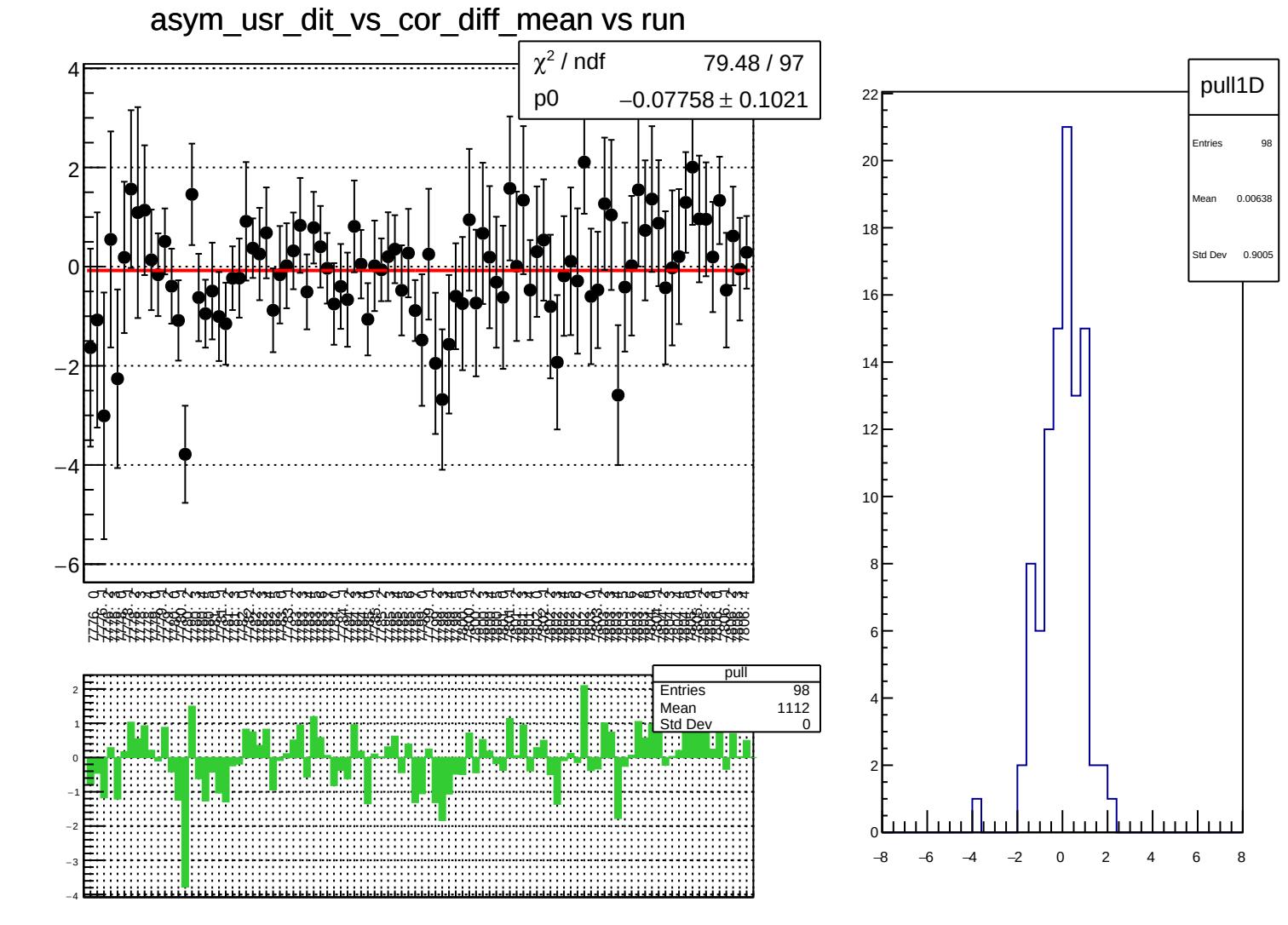

asym_usr_mean vs run
×10^3
χ² / ndf 83.91 / 97
p0 −1157 ± 3071
100
50
0
−50
−100
pull
Entries 98
Mean 1038
Std Dev 0
3
2
1
0
−1
−2

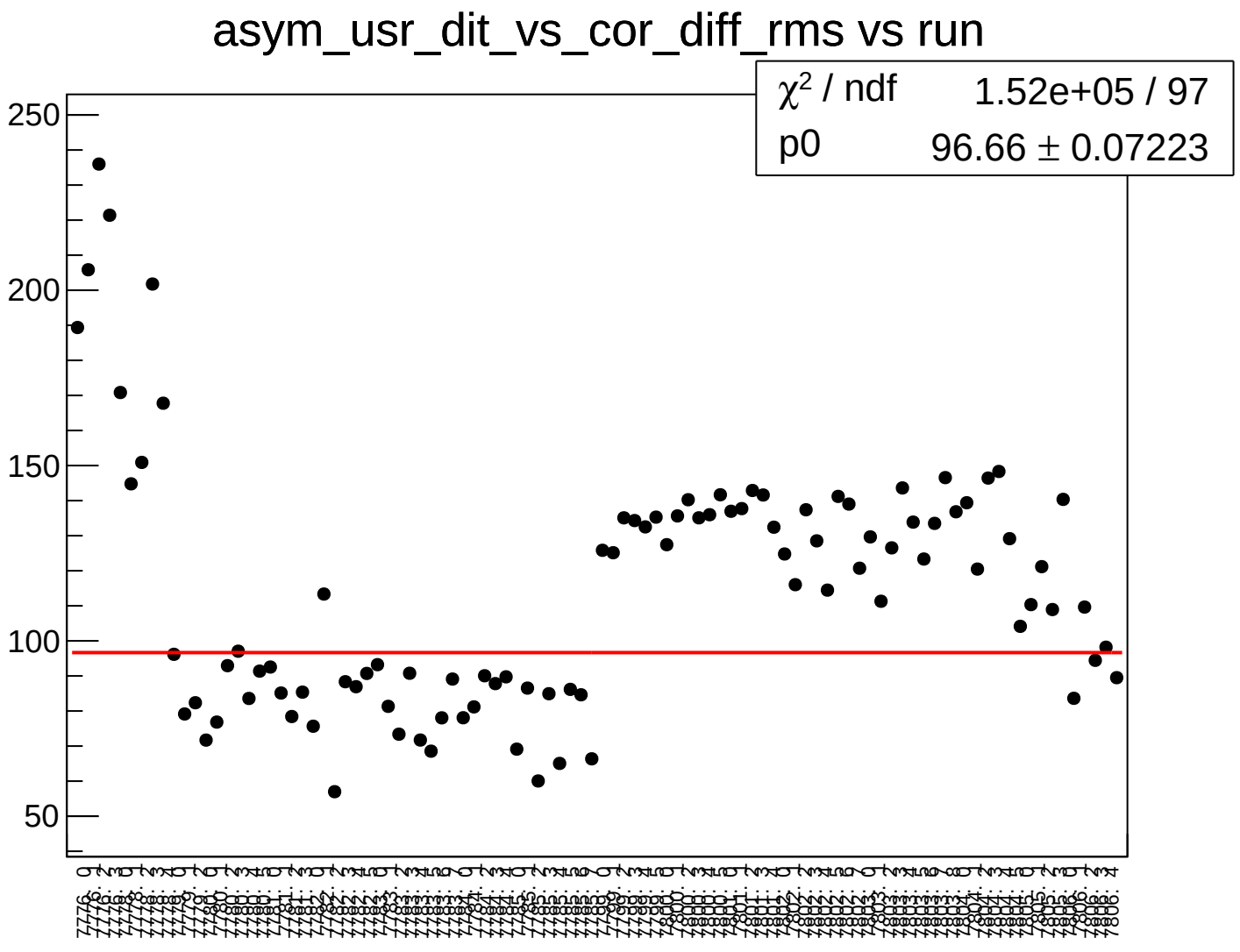

pull1D
Entries 98
Mean −0.006558
Std Dev 0.9253
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

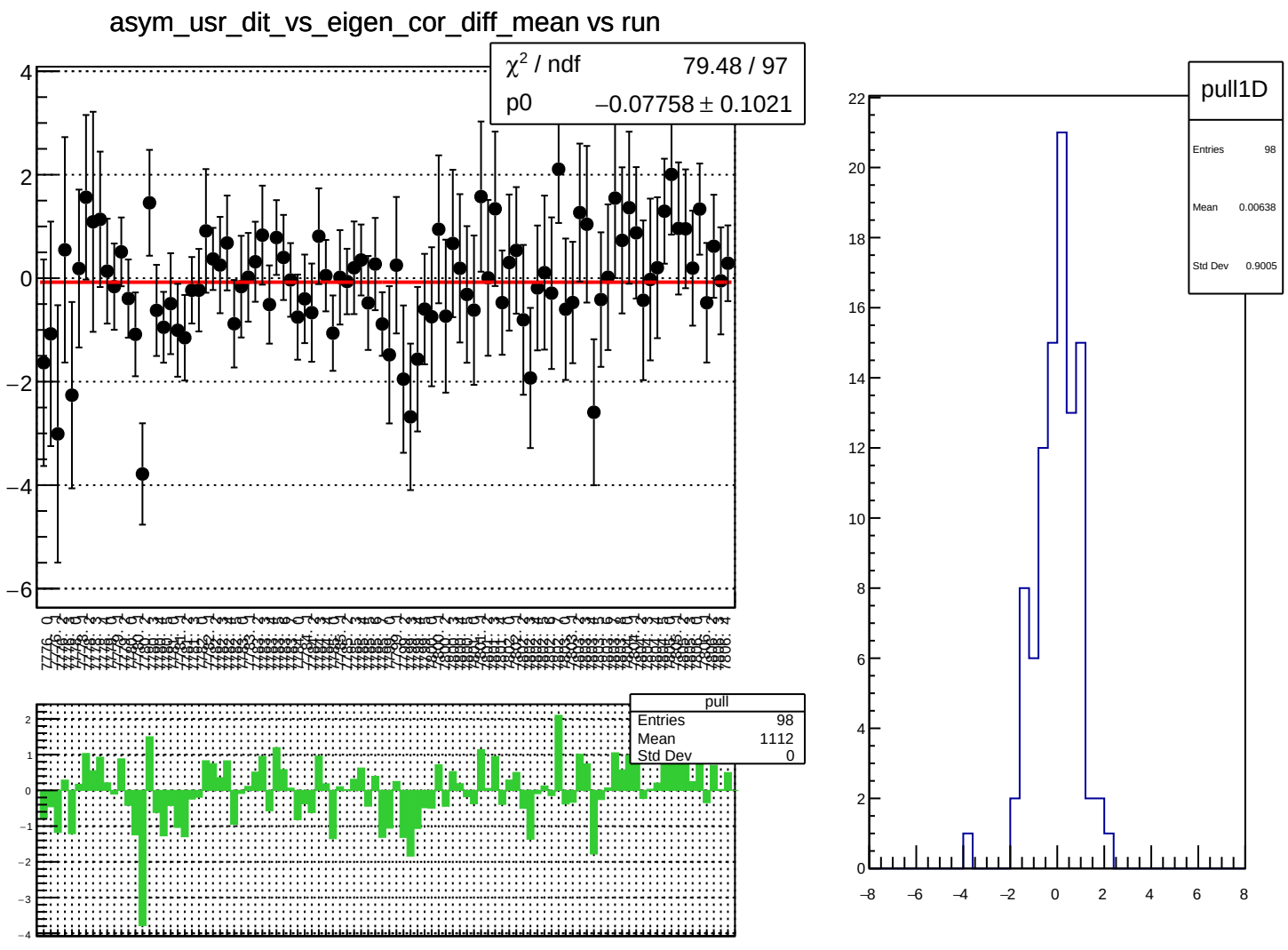

asym_usr_rms vs run
χ² / ndf 7971 / 97
p0 3020 ± 2.171
3800
3600
3400
3200
3000
2800
2600

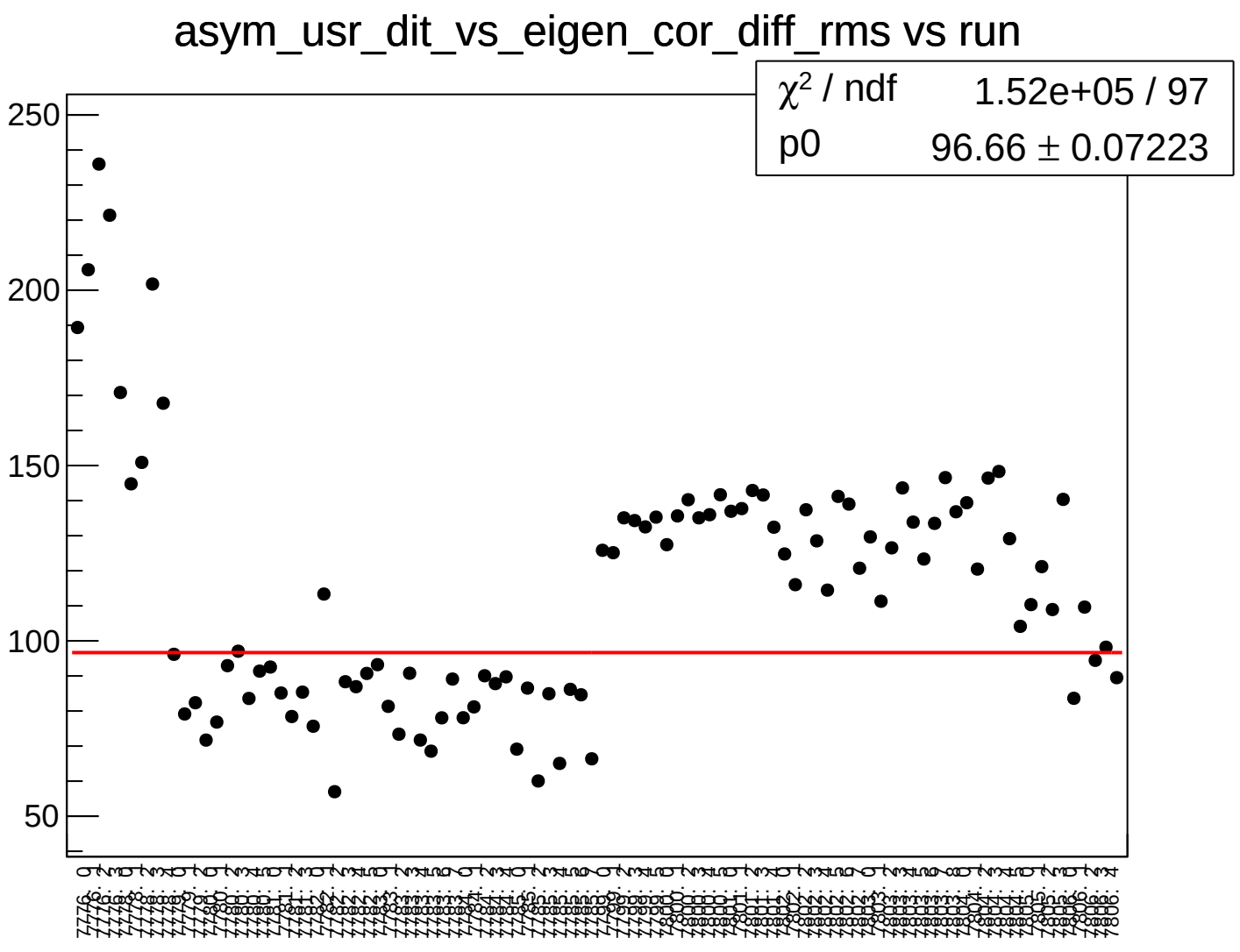

asym_usr_reg_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 88.9 / 97
p0 −3.631e−13 ± 4.566e−13
pull
Entries 98
Mean 127.6
Std Dev 0
pull1D
Entries 98
Mean 0.04433
Std Dev 0.9514

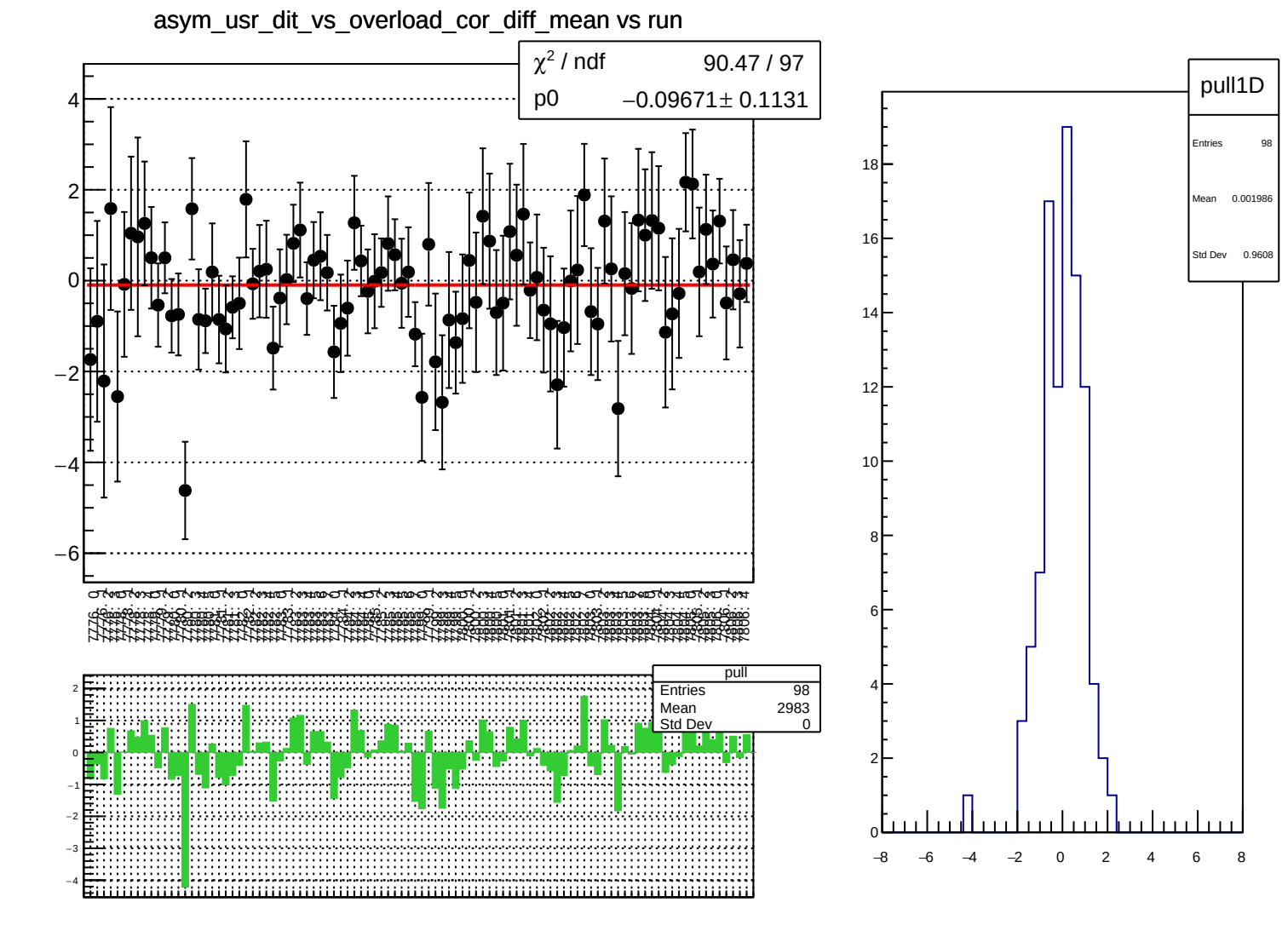

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.23e+05 / 97
p0 3.847e−10 ± 3.228e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

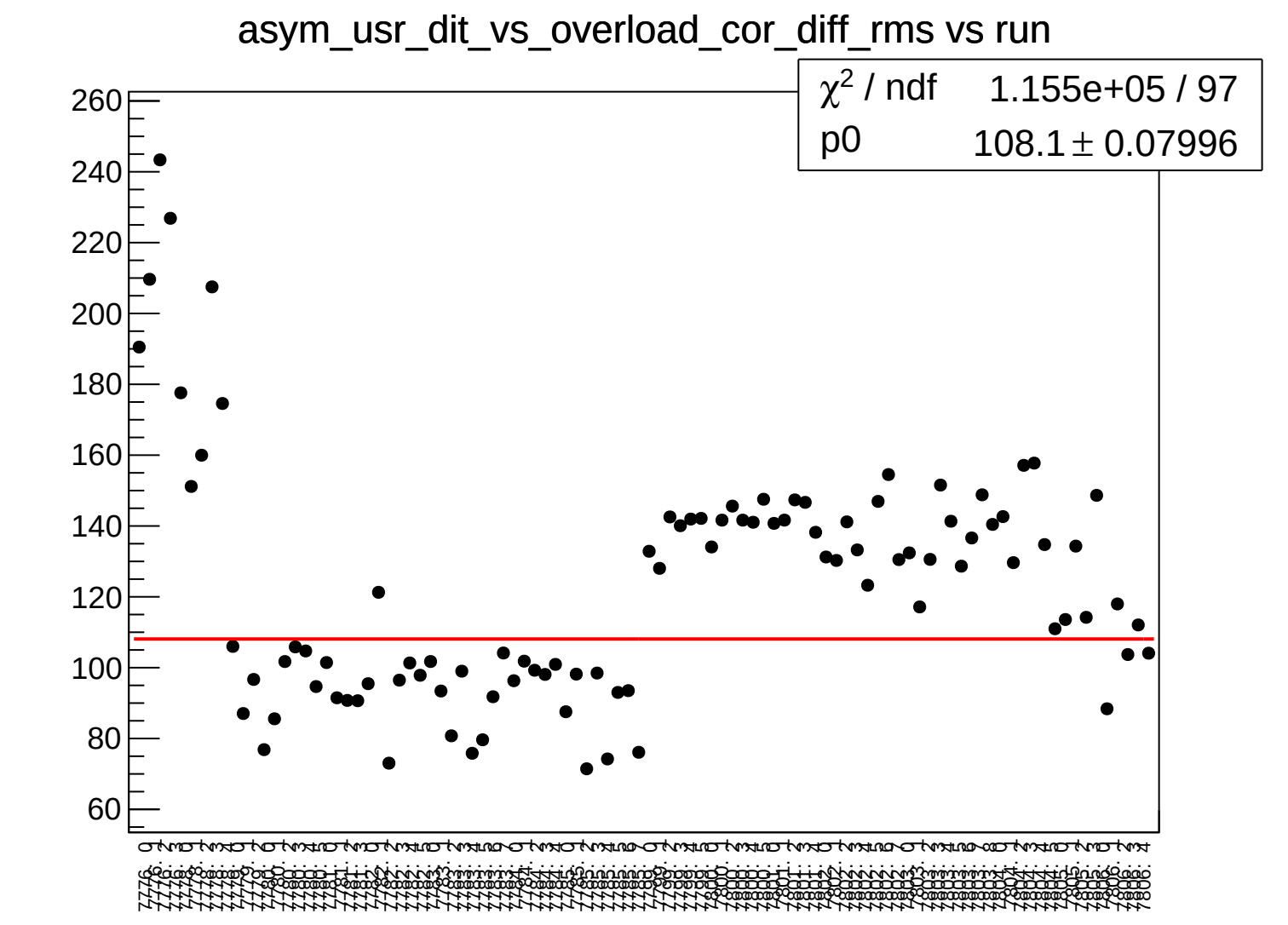

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 79.48 / 97
p0 −0.07758 ± 0.1021
pull
Entries 98
Mean 1112
Std Dev 0
pull1D
Entries 98
Mean 0.00638
Std Dev 0.9005

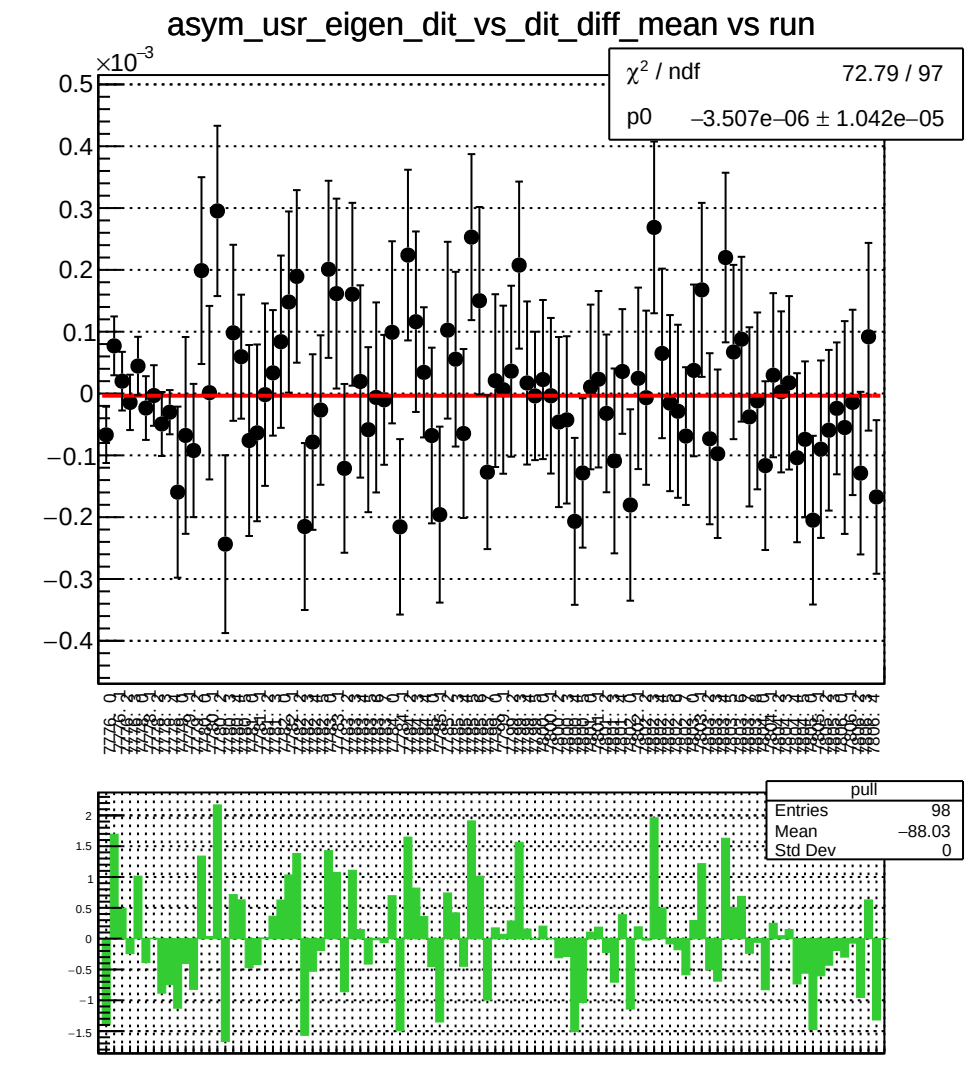

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.52e+05 / 97
p0 96.66 ± 0.07223
250
200
150
100
50

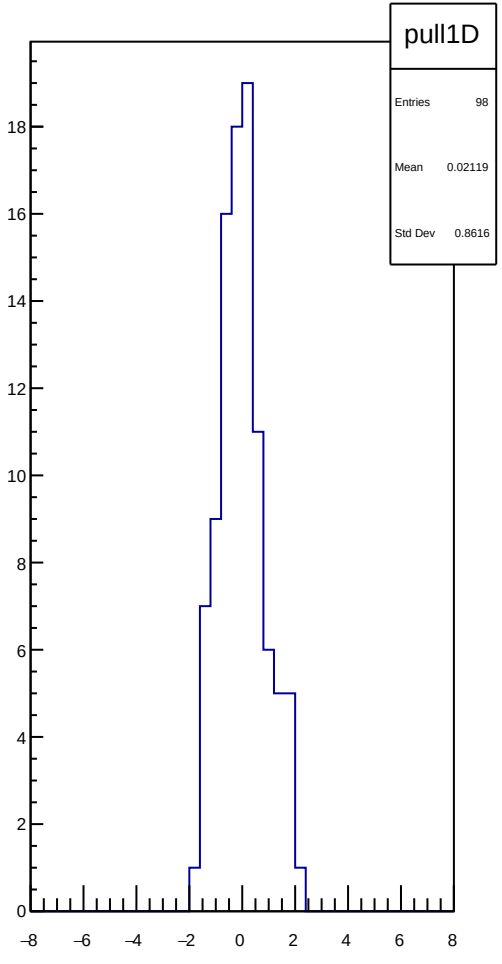

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.48 / 97
p0 −0.07758 ± 0.1021
pull
Entries 98
Mean 1112
Std Dev 0
pull1D
Entries 98
Mean 0.00638
Std Dev 0.9005

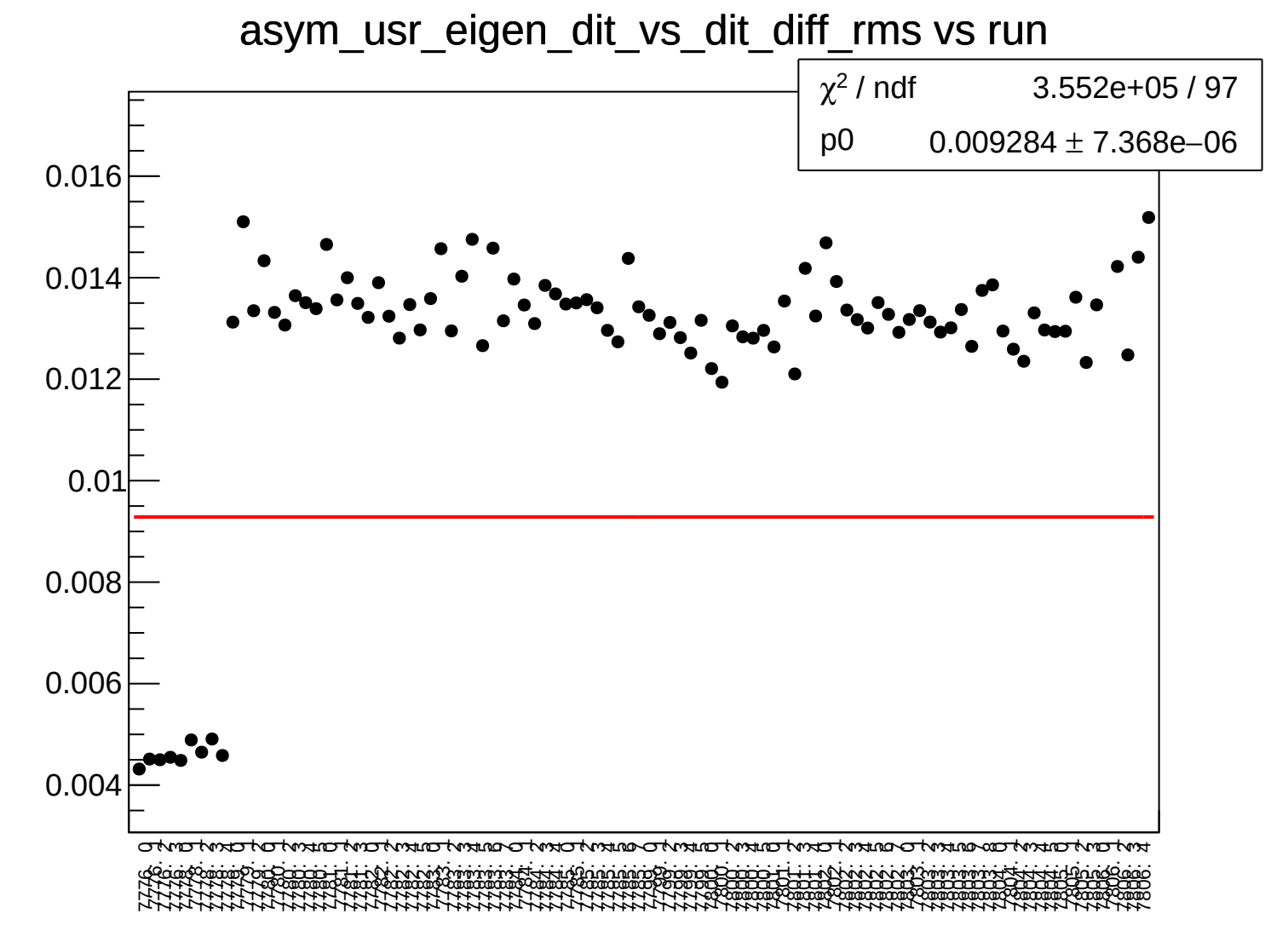

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.52e+05 / 97
p0 96.66 ± 0.07223
250
200
150
100
50

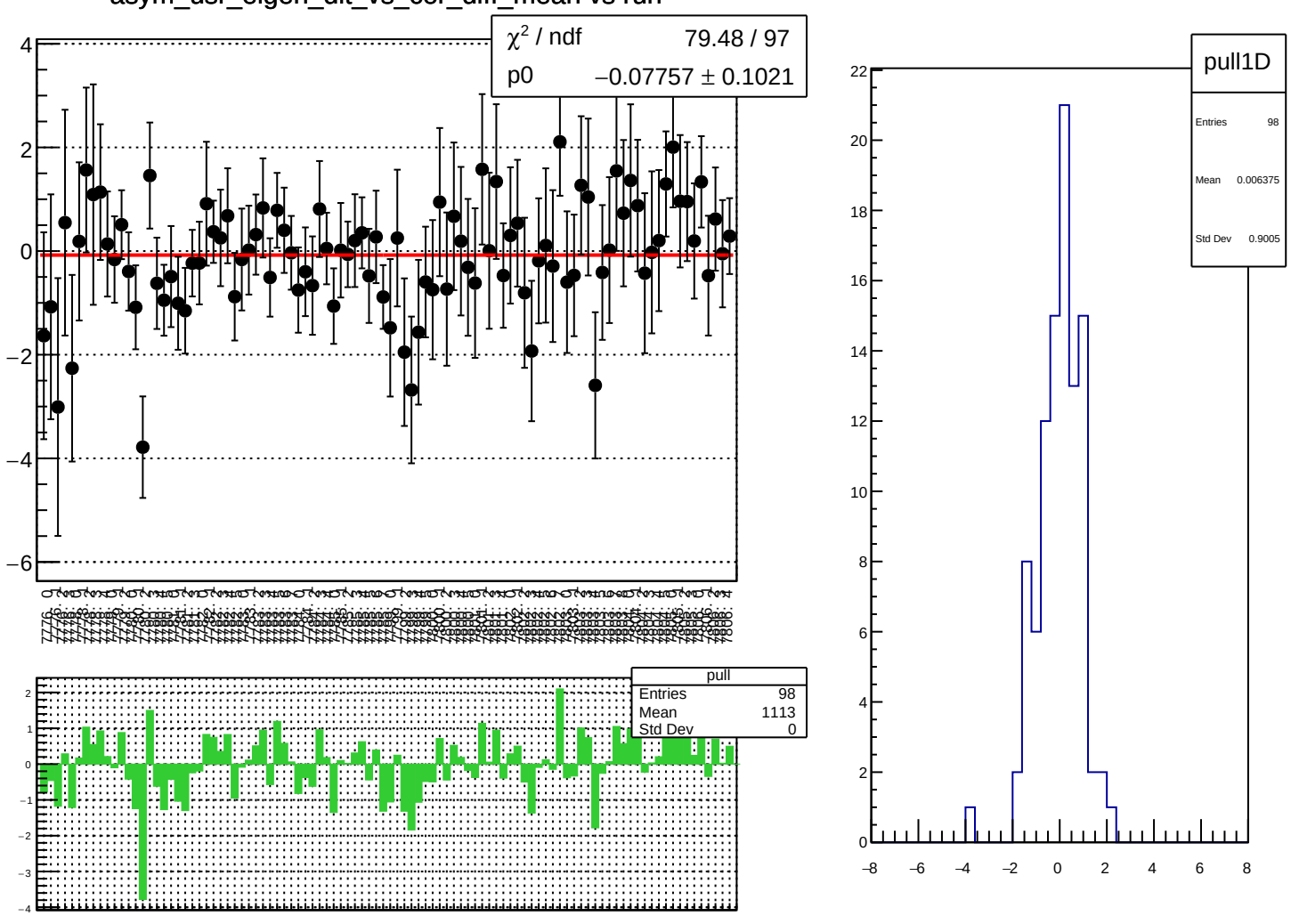

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.47 / 97
p0 −0.09671± 0.1131
pull
Entries 98
Mean 2983
Std Dev 0
pull1D
Entries 98
Mean 0.001986
Std Dev 0.9608

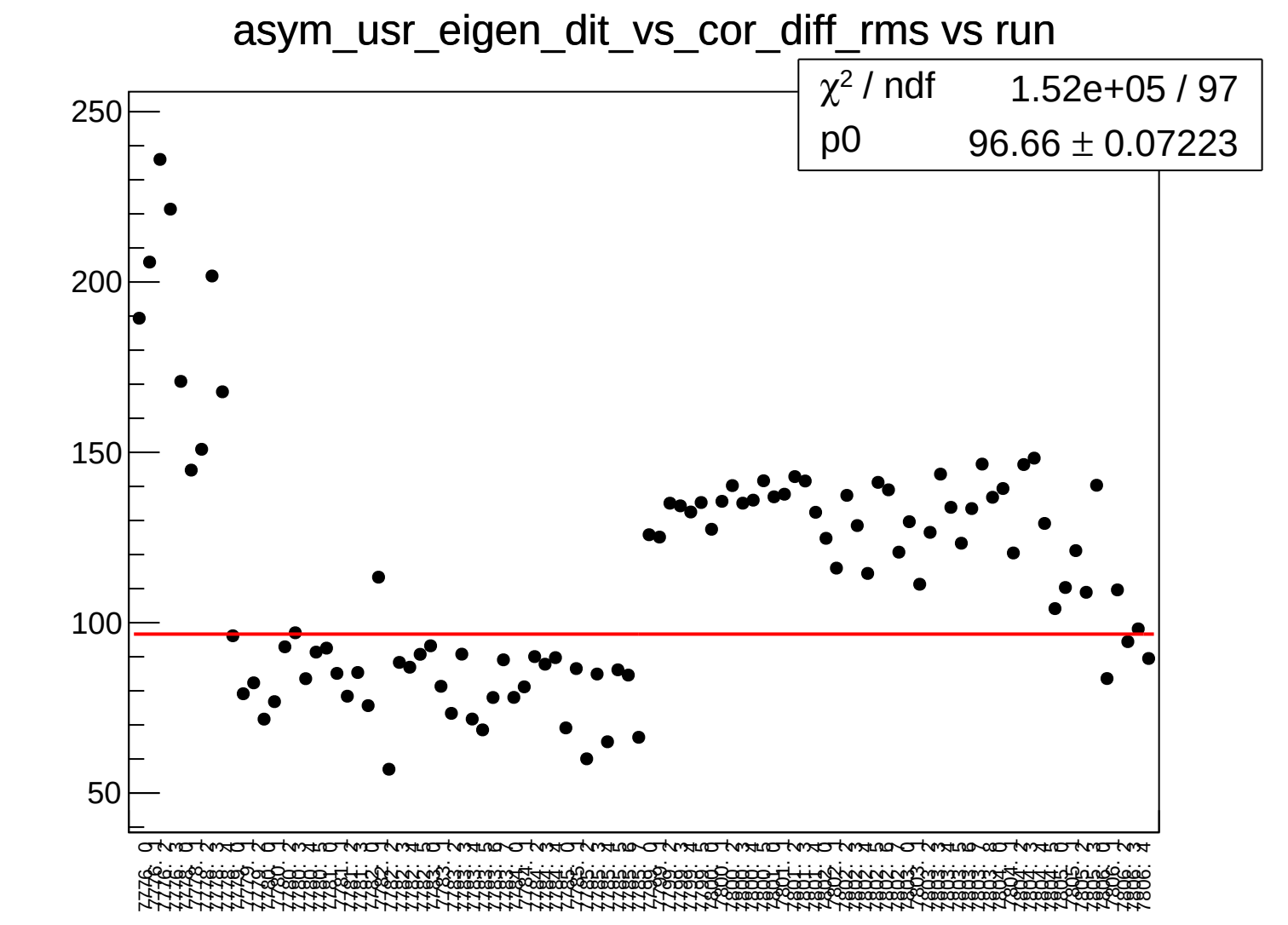

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.155e+05 / 97
p0 108.1 ± 0.07996
260
240
220
200
180
160
140
120
100
80
60

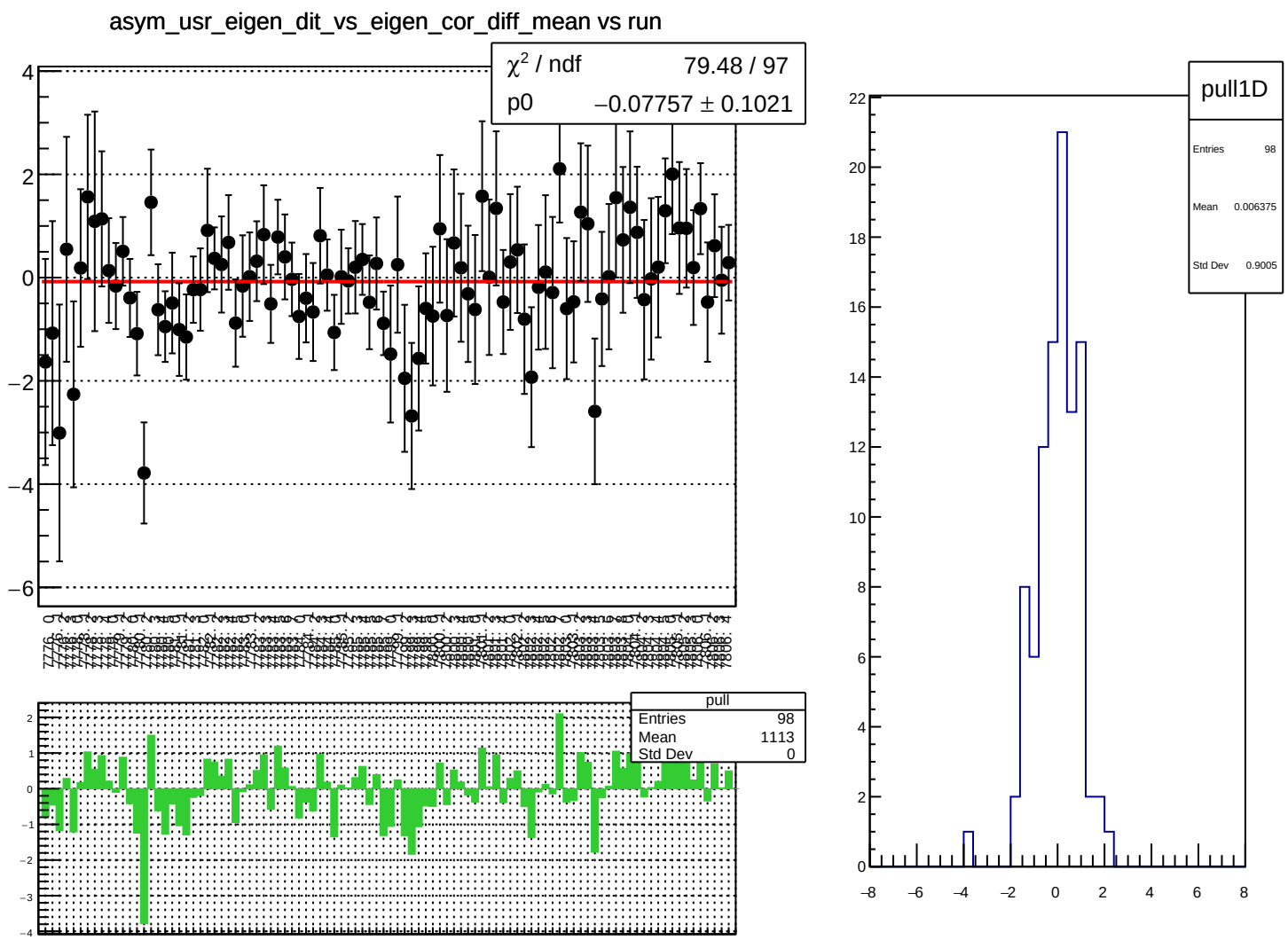

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.79 / 97
p0 −3.507e−06 ± 1.042e−05
pull
Entries 98
Mean −88.03
Std Dev 0

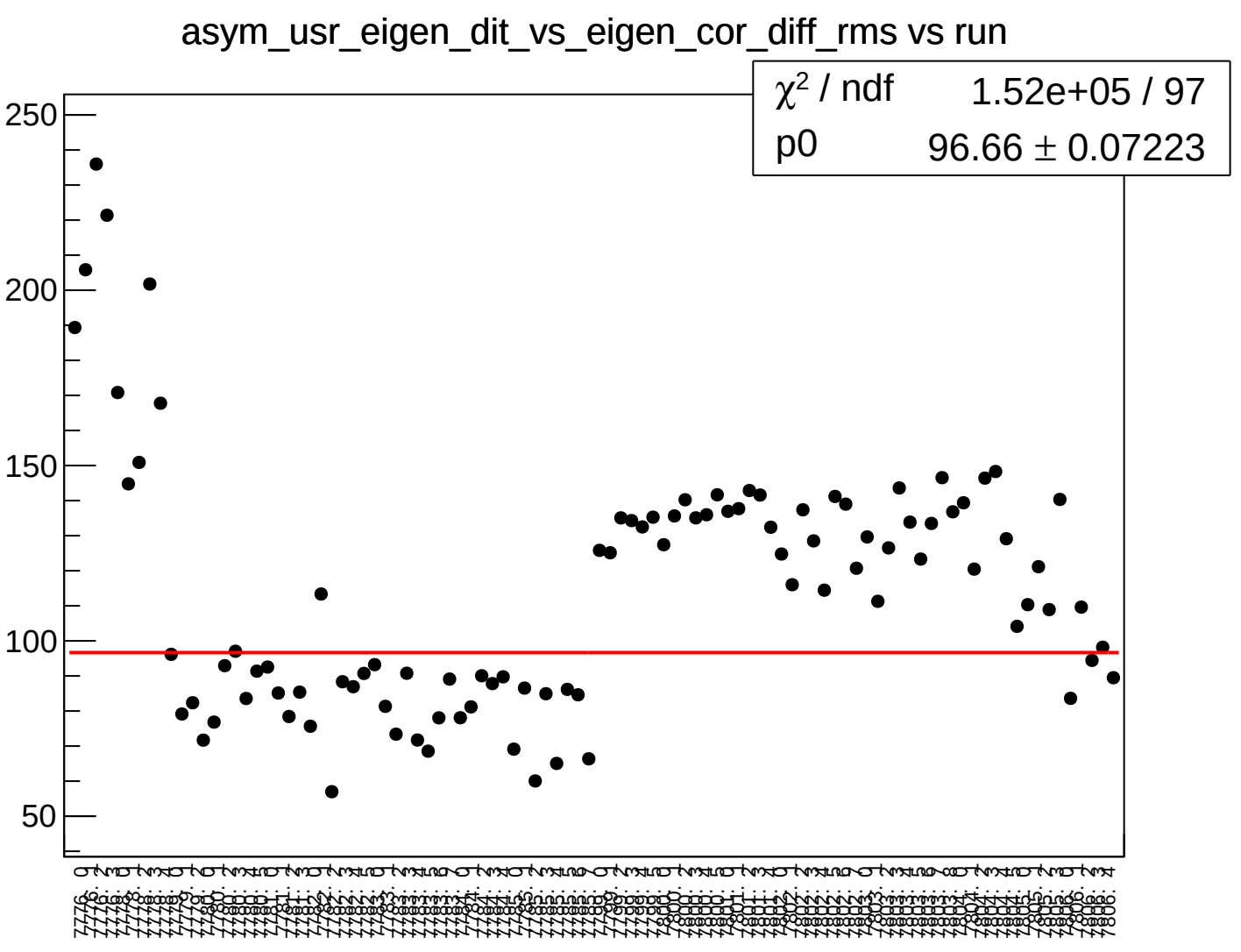

pull1D
Entries 98
Mean 0.02119
Std Dev 0.8616

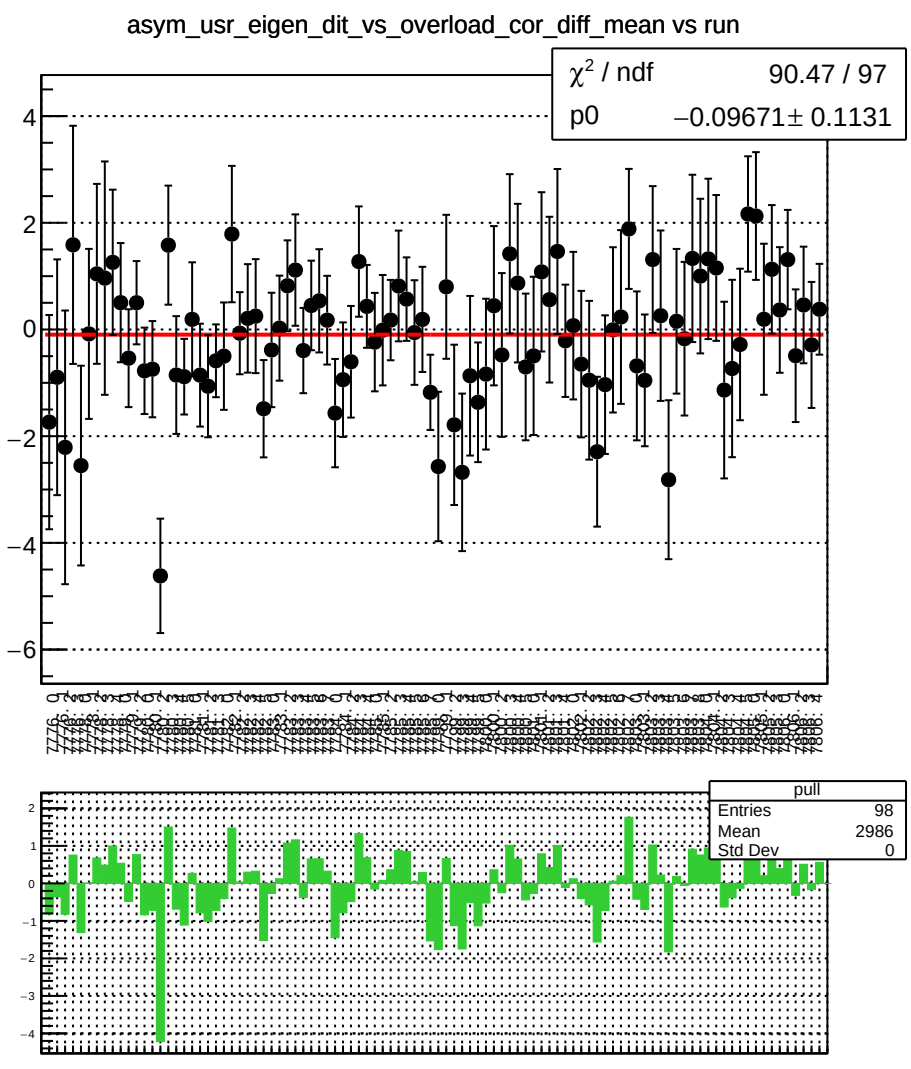

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.552e+05 / 97
p0 0.009284 ± 7.368e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

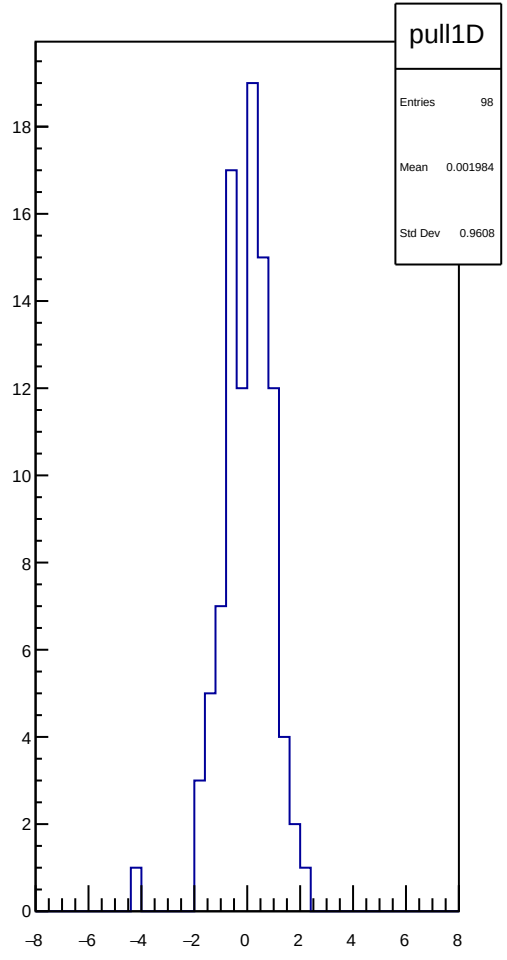

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.48 / 97
p0 −0.07757 ± 0.1021
pull
Entries 98
Mean 1113
Std Dev 0
pull1D
Entries 98
Mean 0.006375
Std Dev 0.9005

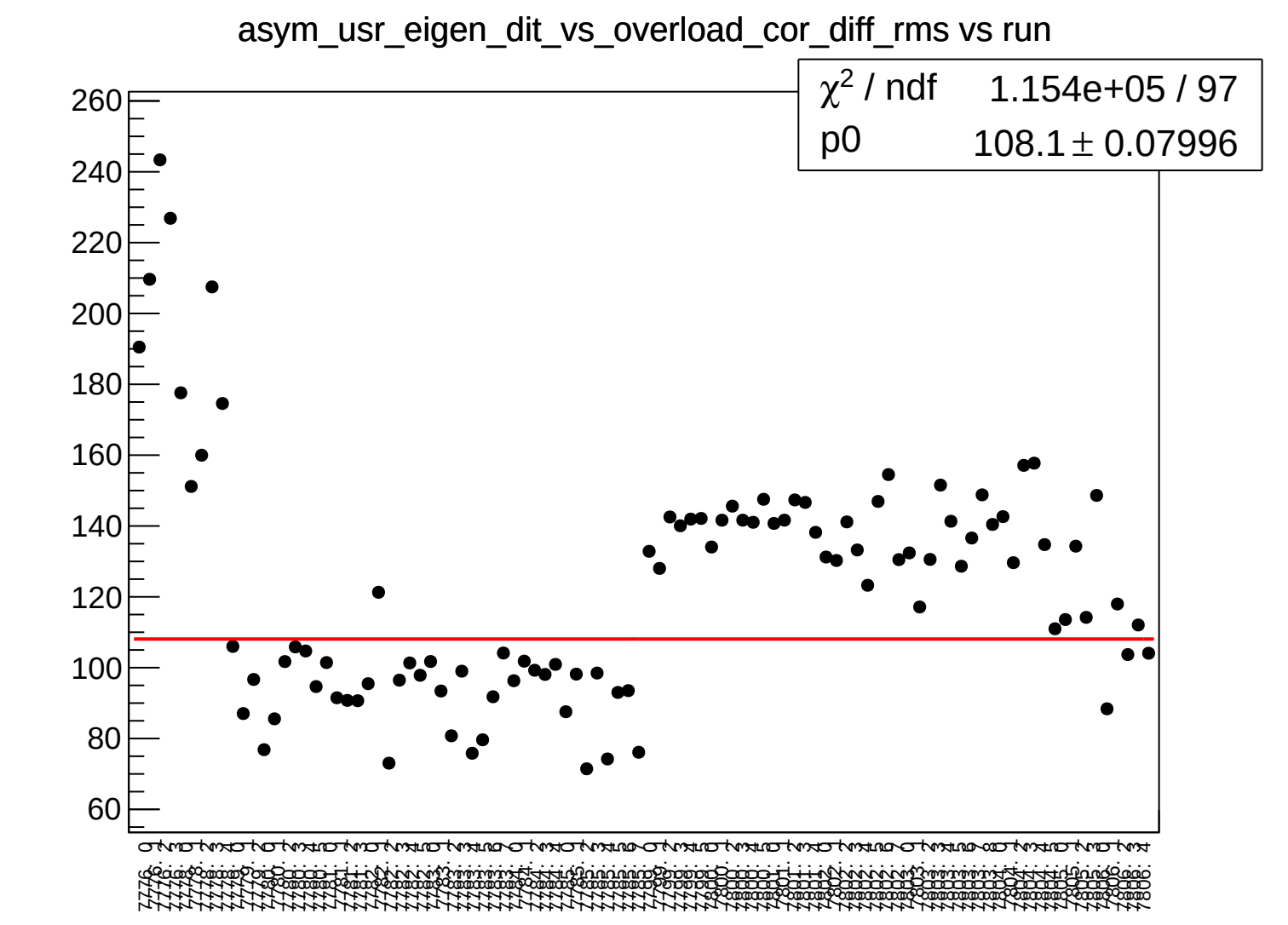

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.52e+05 / 97
p0 96.66 ± 0.07223
250
200
150
100
50

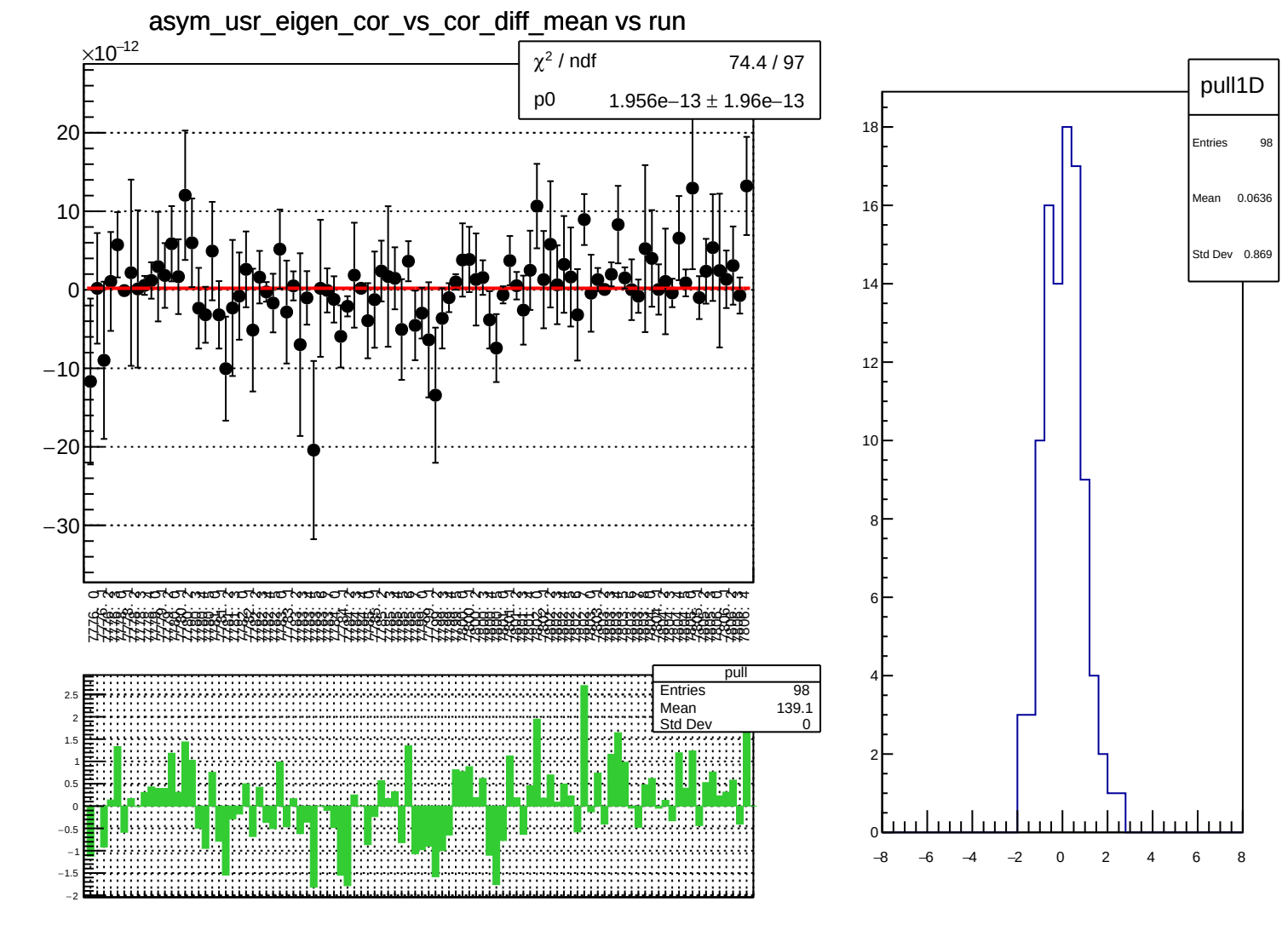

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.48 / 97
p0 −0.07757 ± 0.1021
pull
Entries 98
Mean 1113
Std Dev 0
pull1D
Entries 98
Mean 0.006375
Std Dev 0.9005

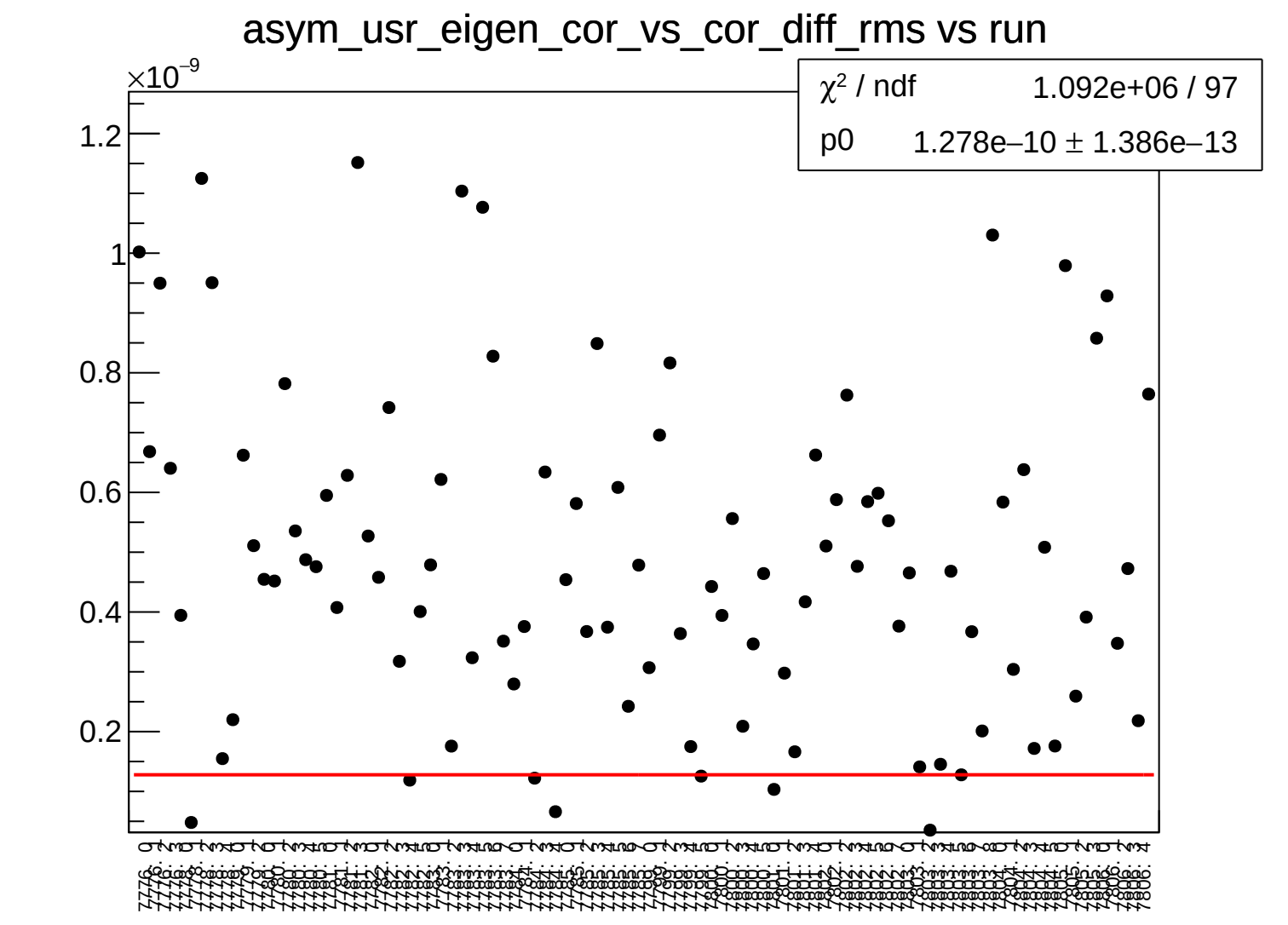

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.52e+05 / 97
p0 96.66 ± 0.07223
250
200
150
100
50

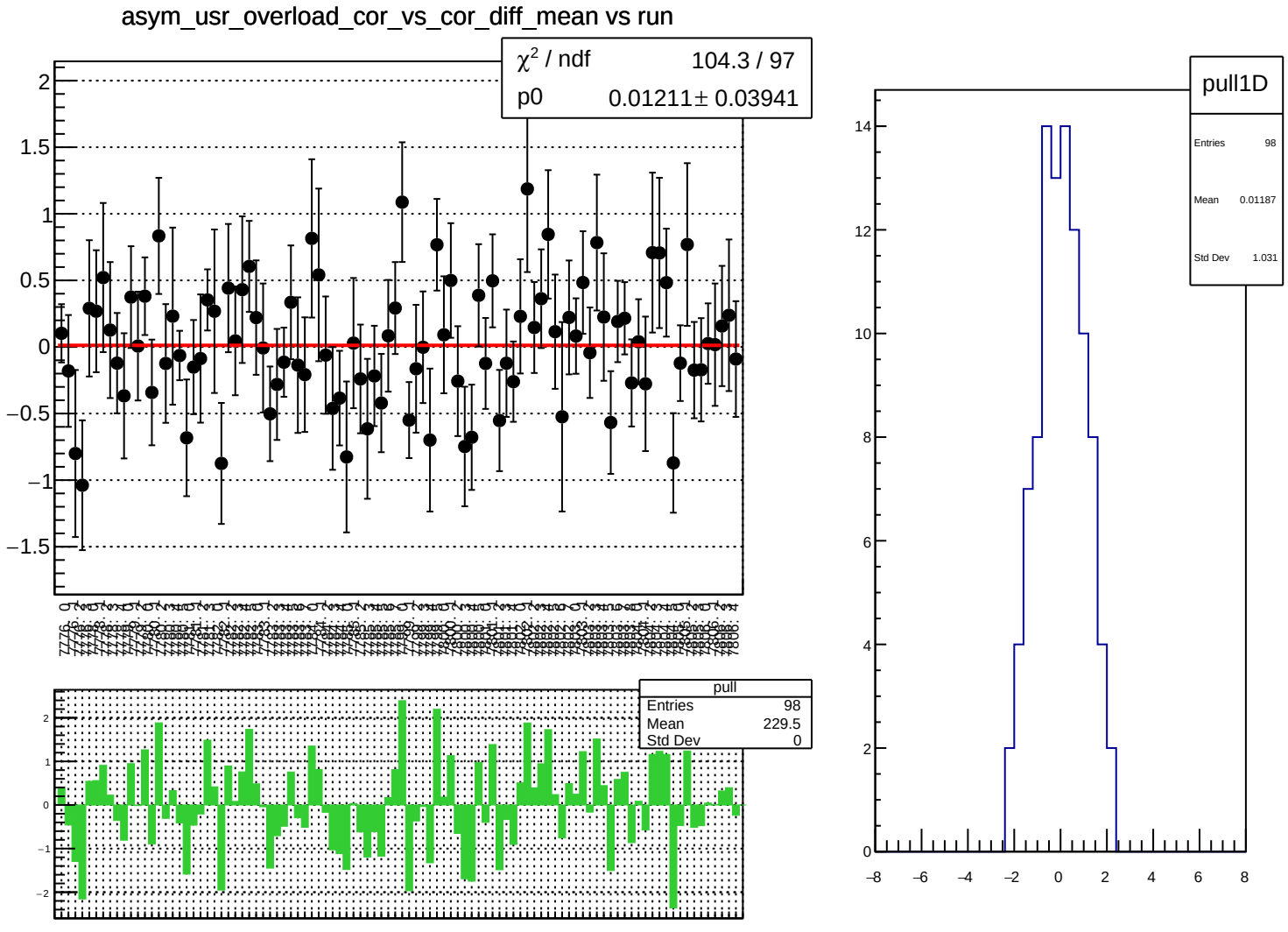

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.47 / 97
p0 −0.09671 ± 0.1131
pull
Entries 98
Mean 2986
Std Dev 0

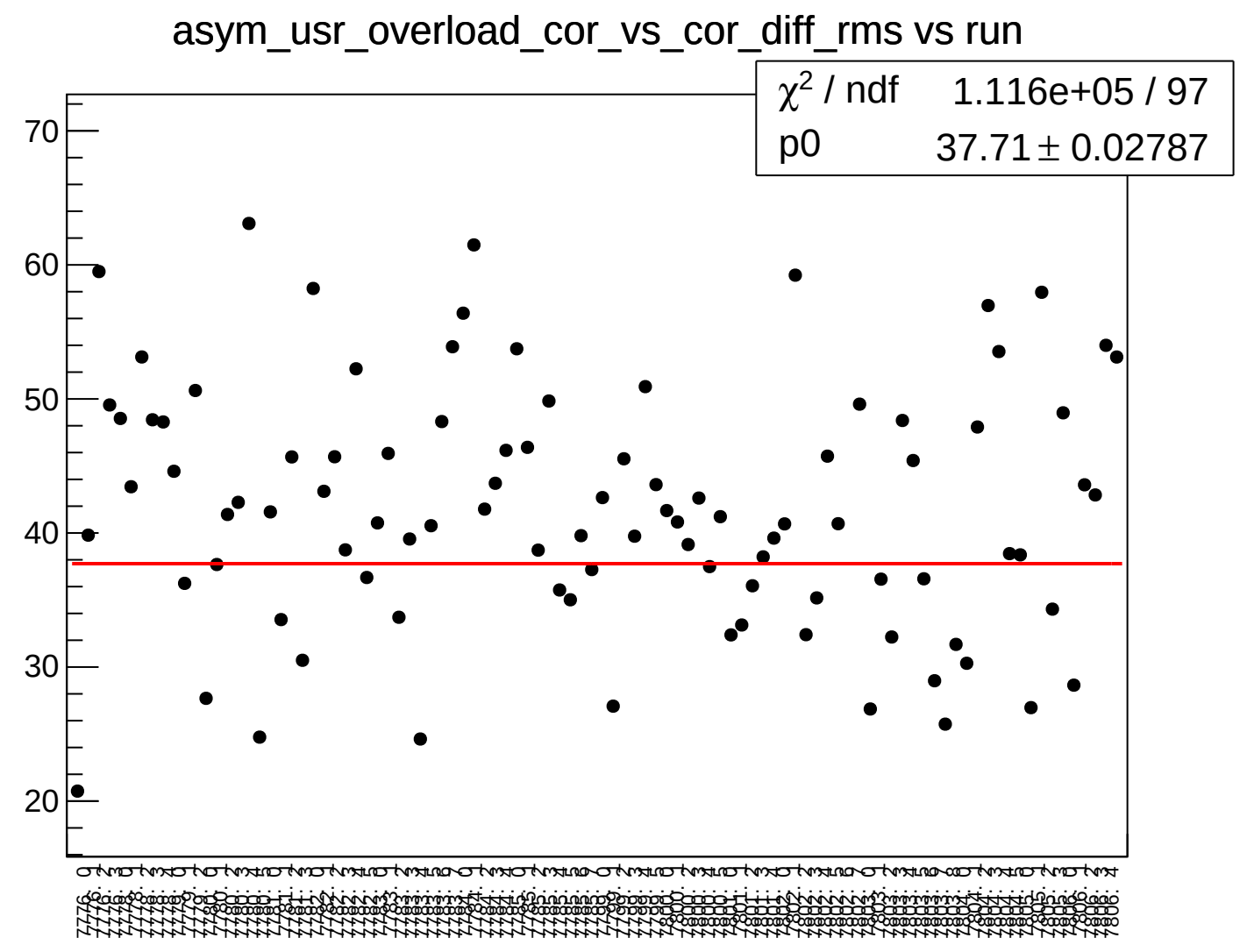

pull1D
Entries 98
Mean 0.001984
Std Dev 0.9608

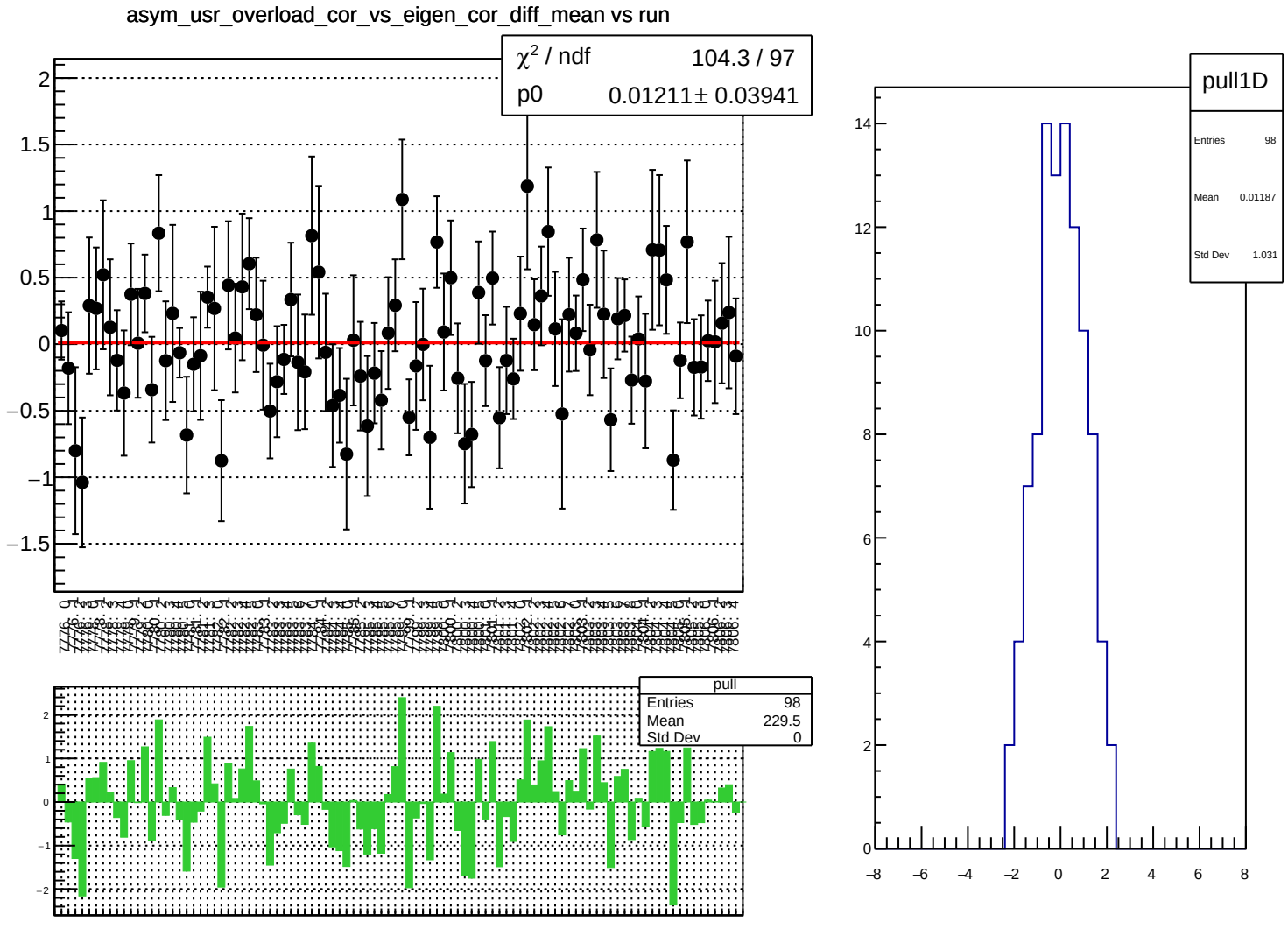

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 1.154e+05 / 97
p0 108.1 ± 0.07996
260
240
220
200
180
160
140
120
100
80
60

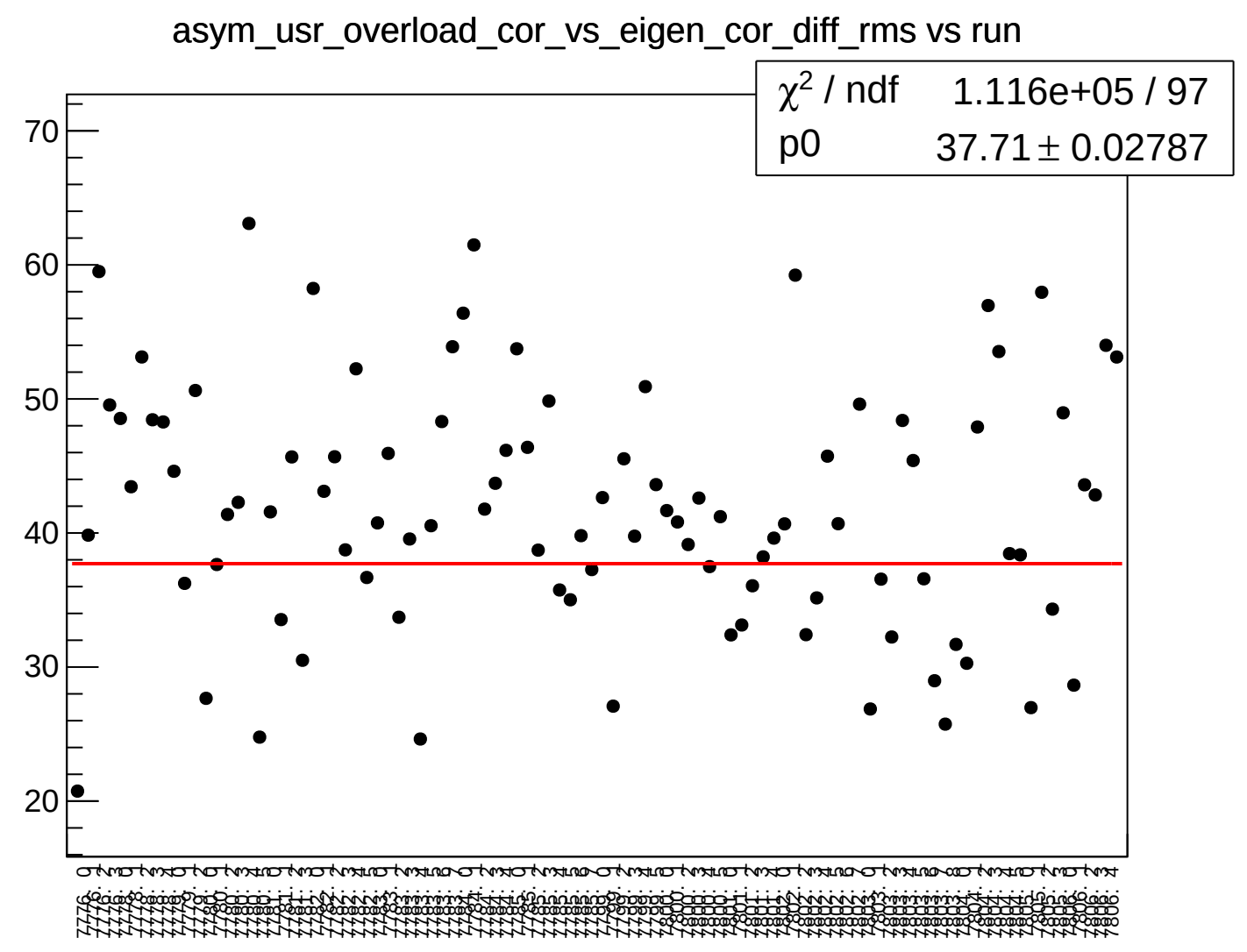

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 74.4 / 97
p0 1.956e−13 ± 1.96e−13
pull
Entries 98
Mean 139.1
Std Dev 0
pull1D
Entries 98
Mean 0.0636
Std Dev 0.869

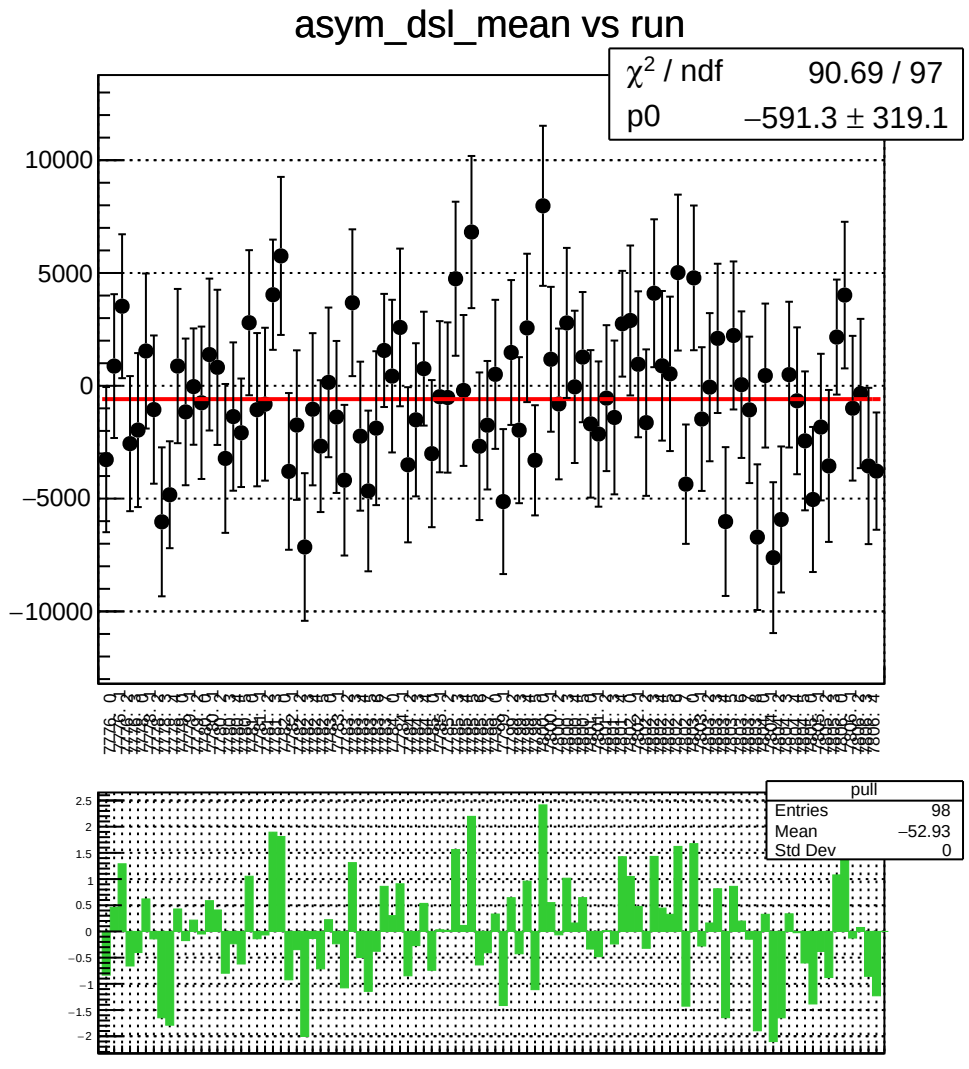

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.092e+06 / 97
p0 1.278e−10 ± 1.386e−13
1.2
1
0.8
0.6
0.4
0.2

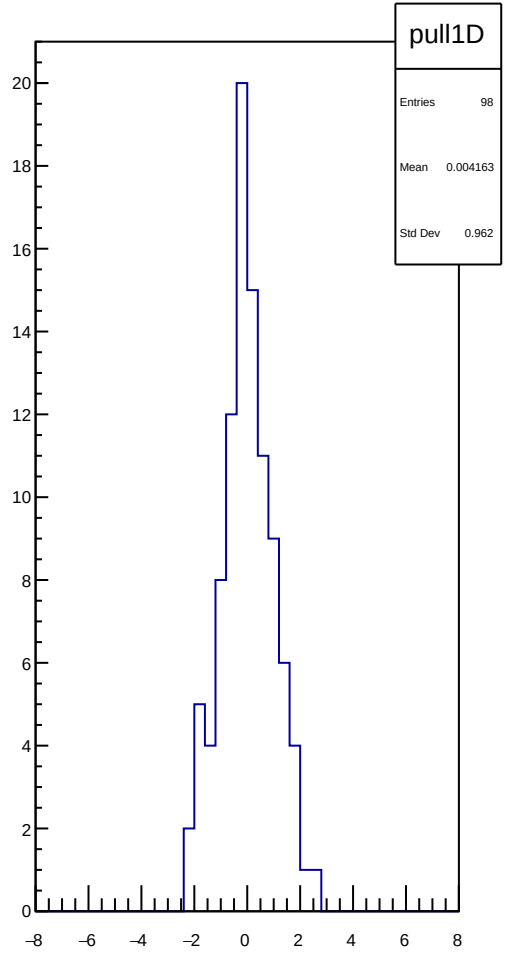

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 97
p0 0.01211± 0.03941
pull
Entries 98
Mean 229.5
Std Dev 0
pull1D
Entries 98
Mean 0.01187
Std Dev 1.031

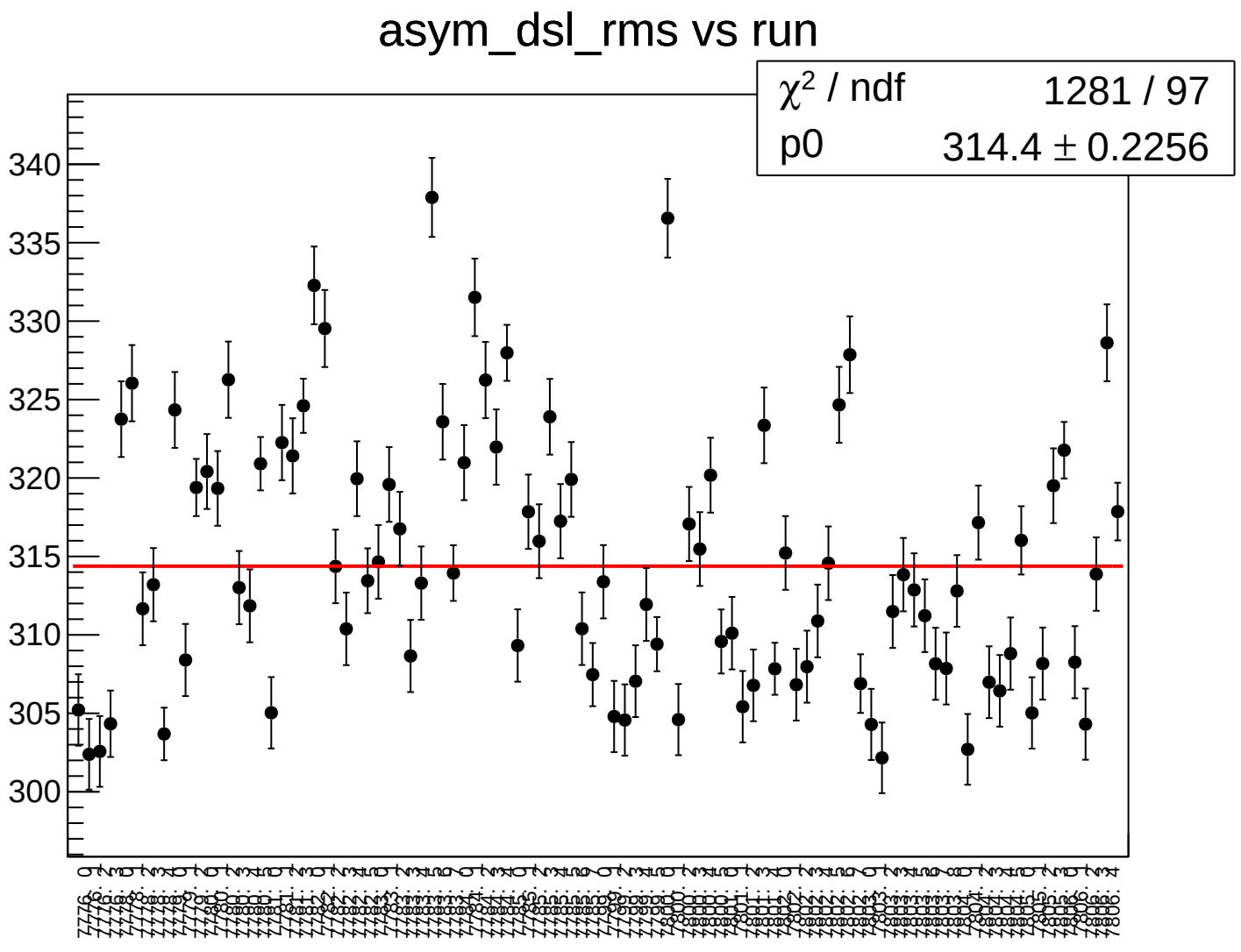

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.116e+05 / 97
p0 37.71 ± 0.02787
70
60
50
40
30
20

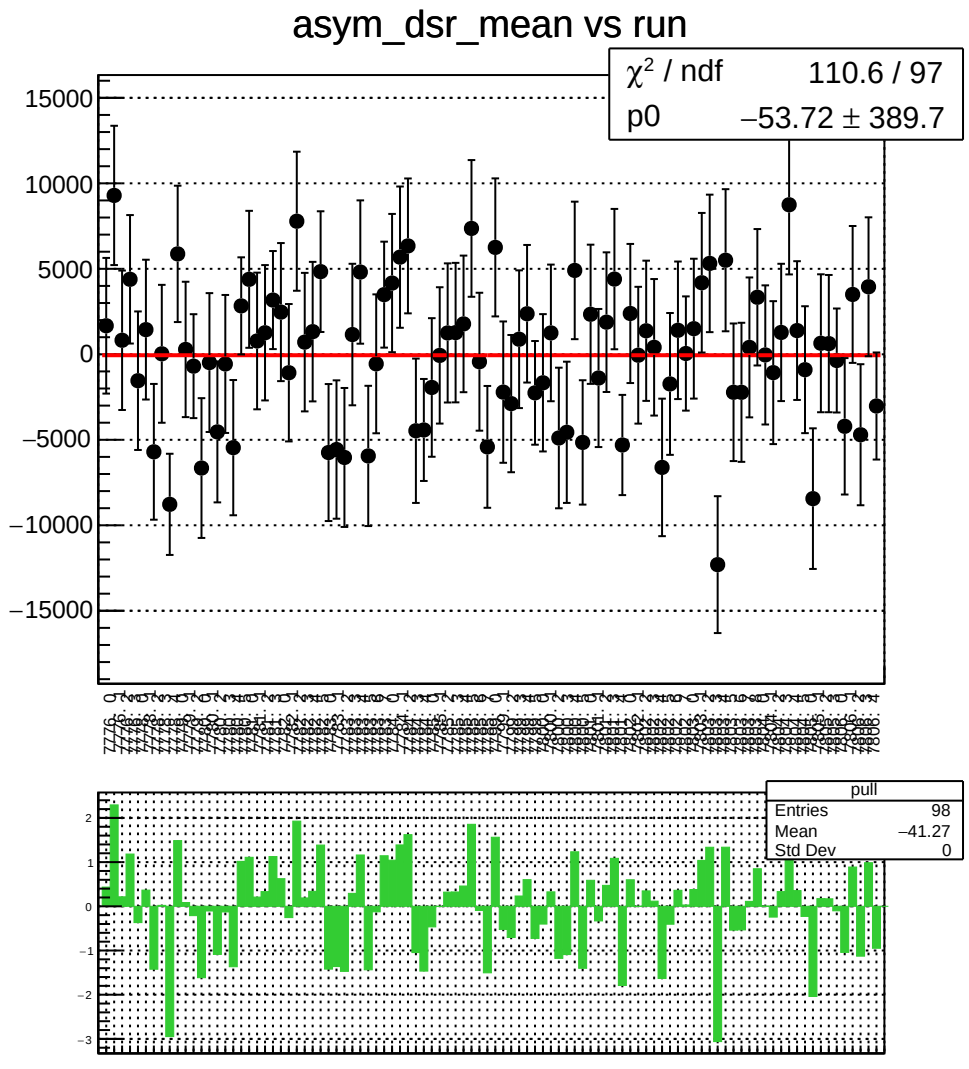

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 97
p0 0.01211± 0.03941
pull
Entries 98
Mean 229.5
Std Dev 0
pull1D
Entries 98
Mean 0.01187
Std Dev 1.031

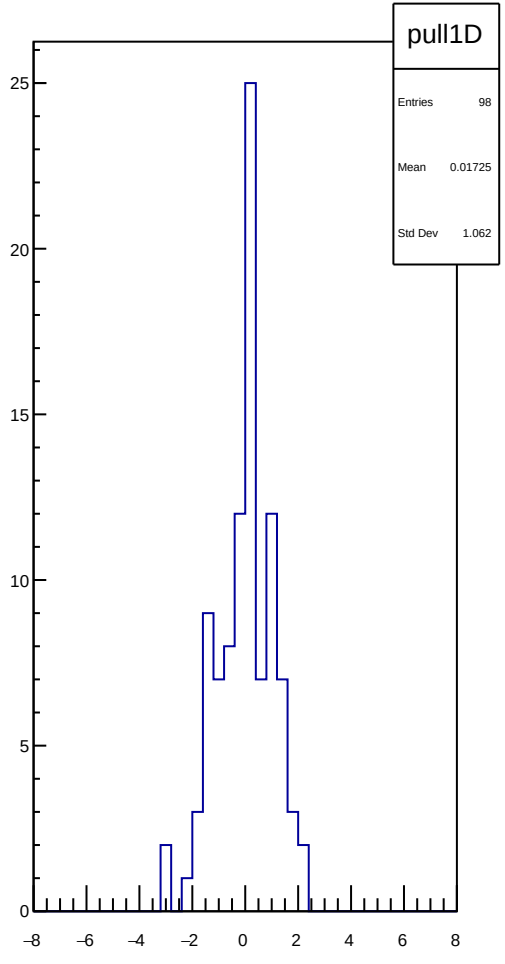

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.116e+05 / 97
p0 37.71 ± 0.02787
70
60
50
40
30
20

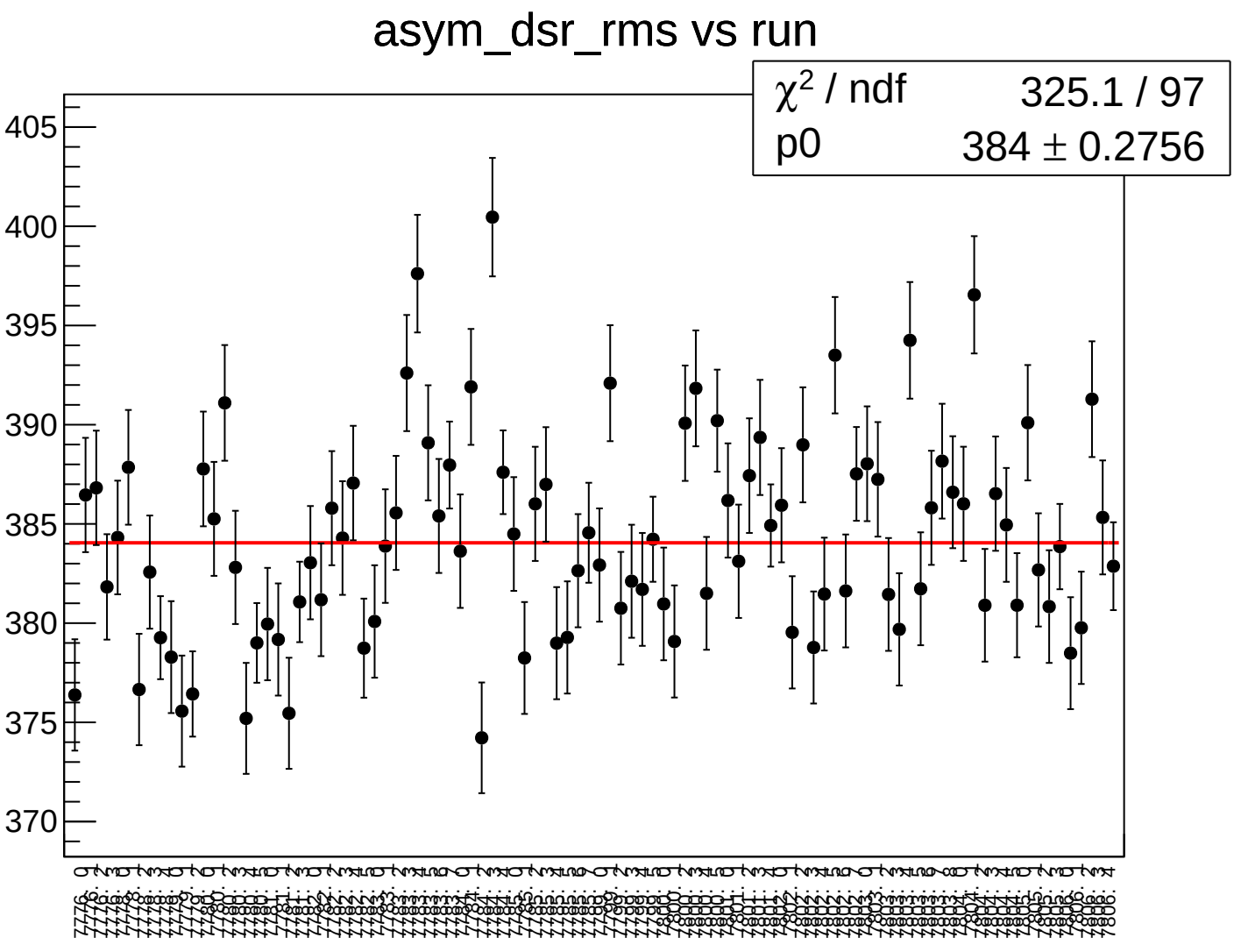

asym_dsl_mean vs run
χ² / ndf 90.69 / 97
p0 −591.3 ± 319.1
10000
5000
0
−5000
−10000
pull
Entries 98
Mean −52.93
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

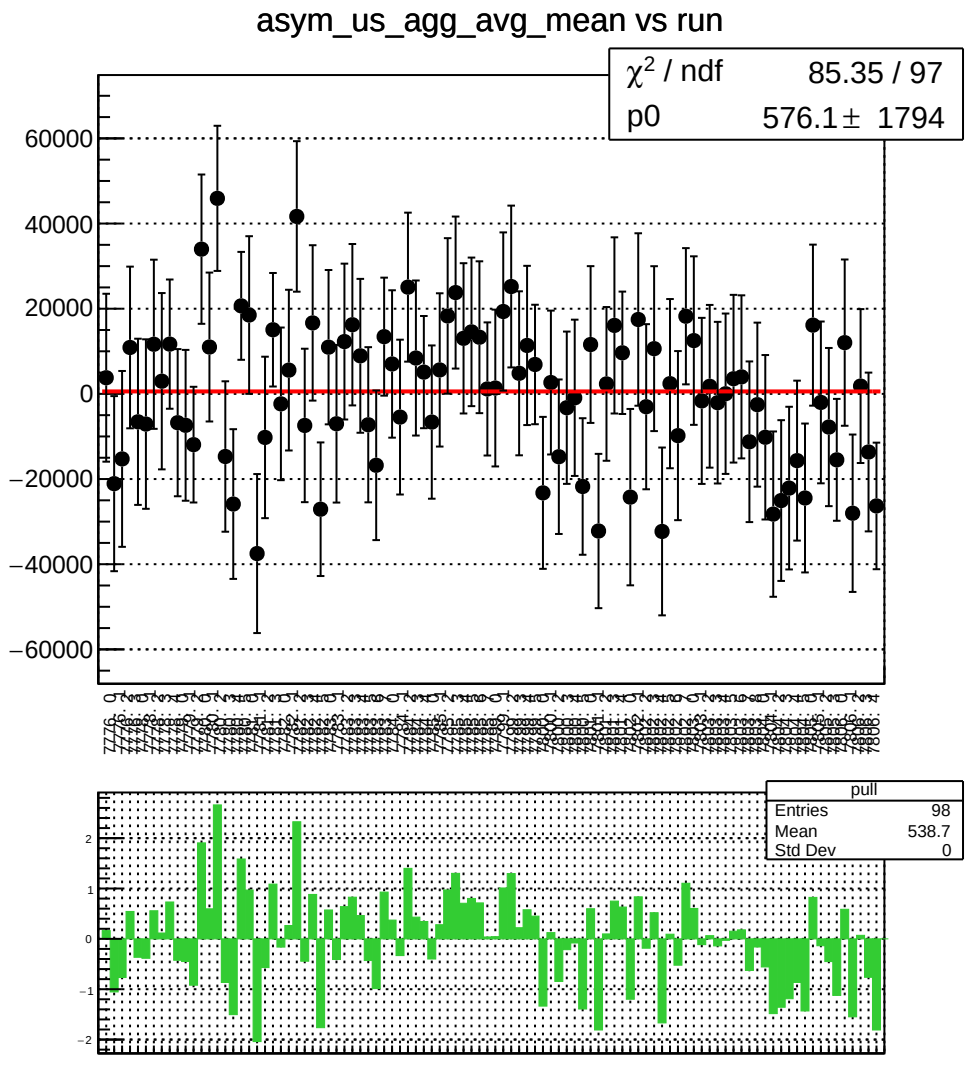

pull1D
Entries 98
Mean 0.004163
Std Dev 0.962
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

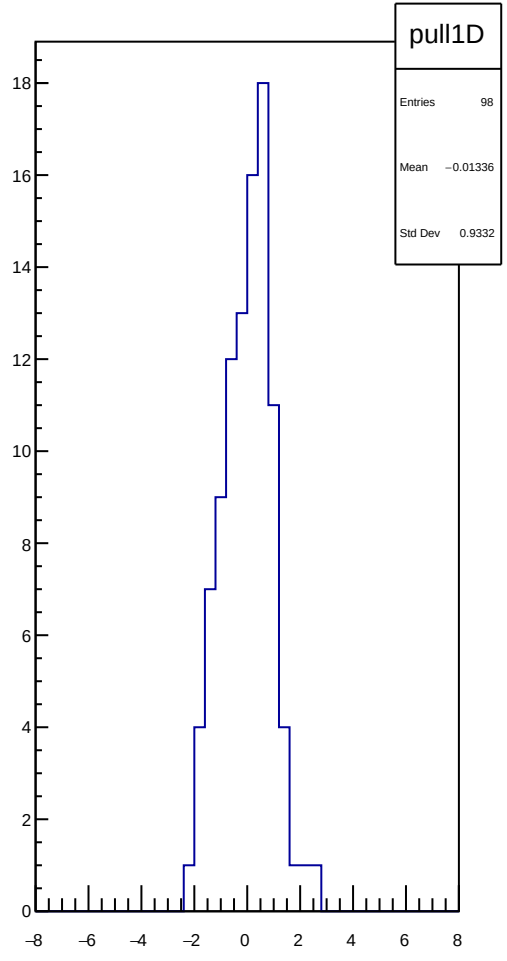

asym_dsl_rms vs run
χ² / ndf 1281 / 97
p0 314.4 ± 0.2256
340
335
330
325
320
315
310
305
300

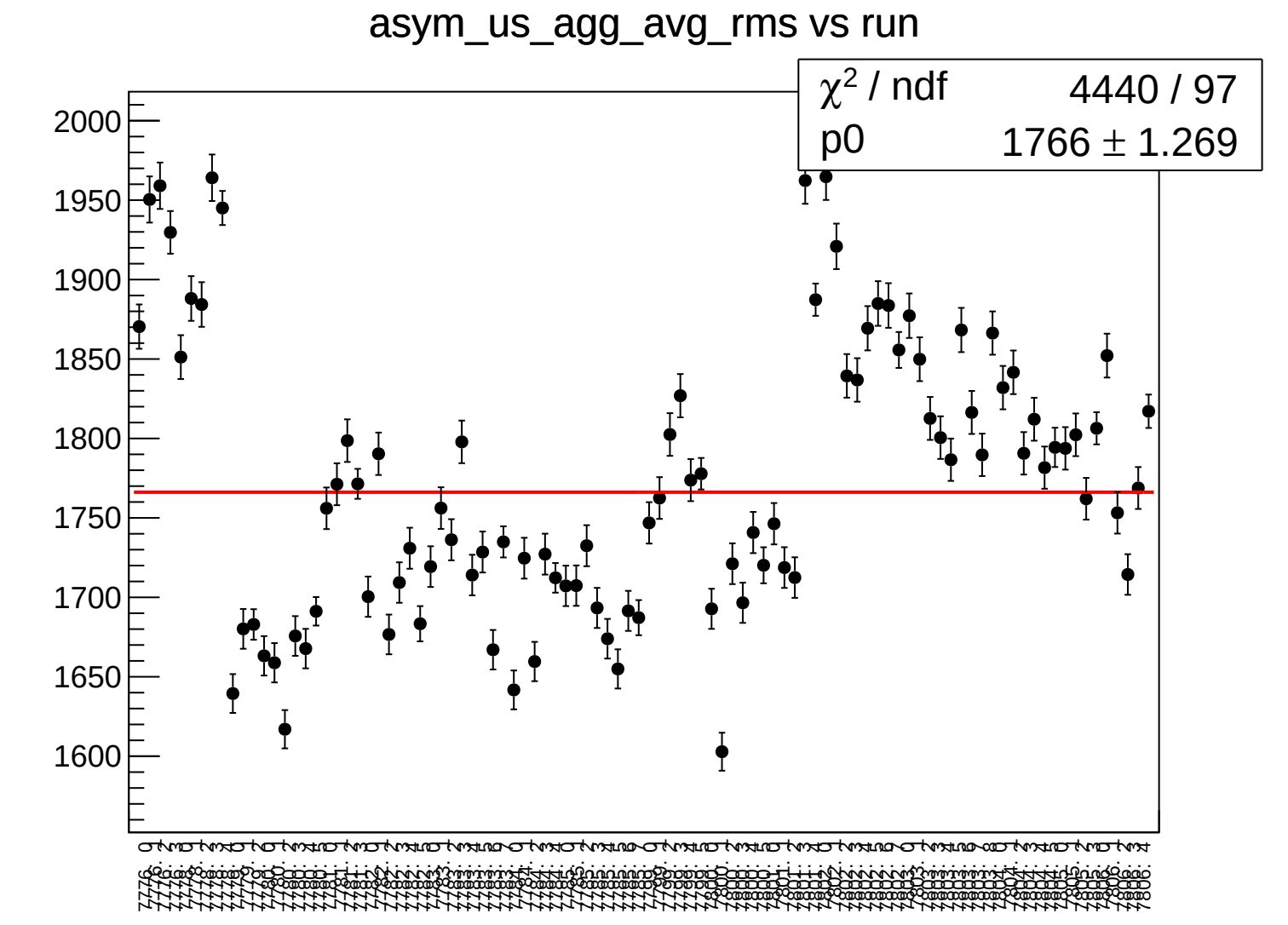

asym_dsr_mean vs run
χ² / ndf 110.6 / 97
p0 −53.72 ± 389.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean −41.27
Std Dev 0
2
1
0
−1
−2
−3

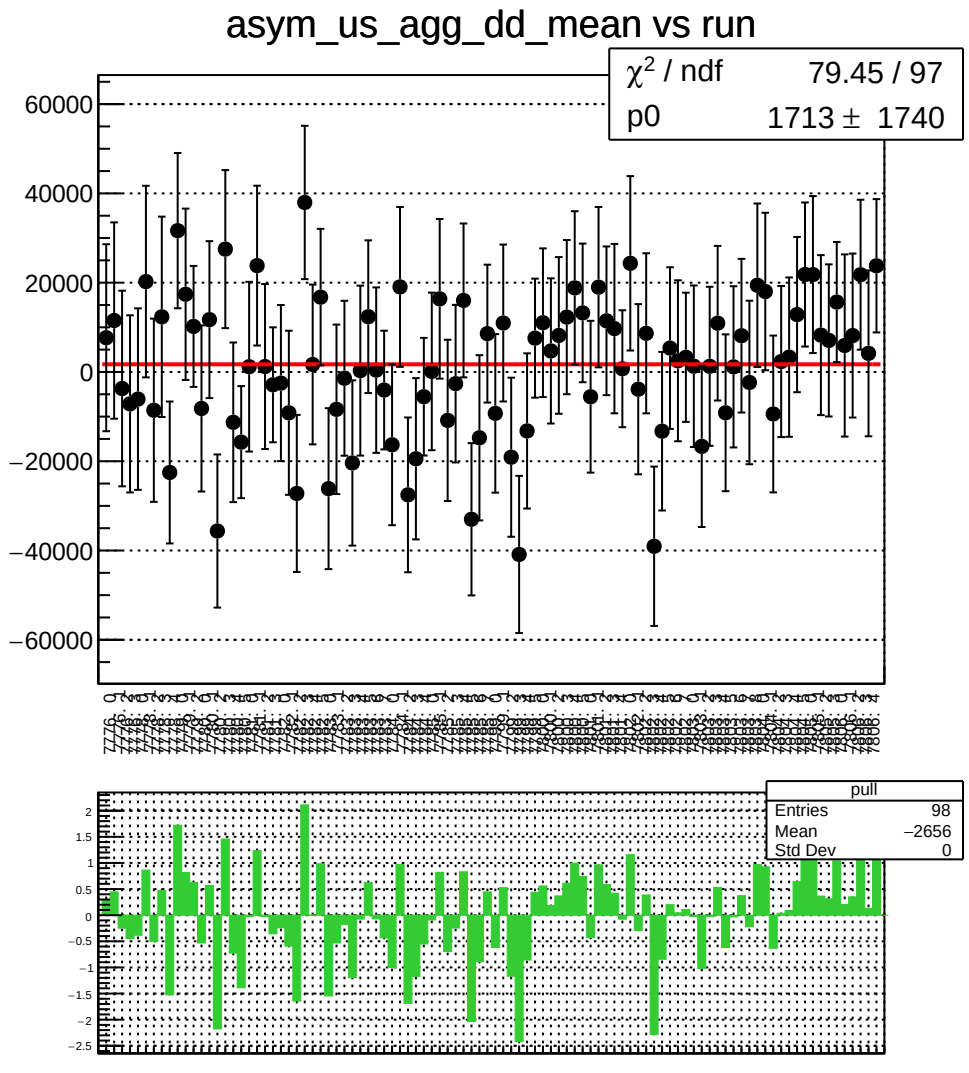

pull1D
Entries 98
Mean 0.01725
Std Dev 1.062
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

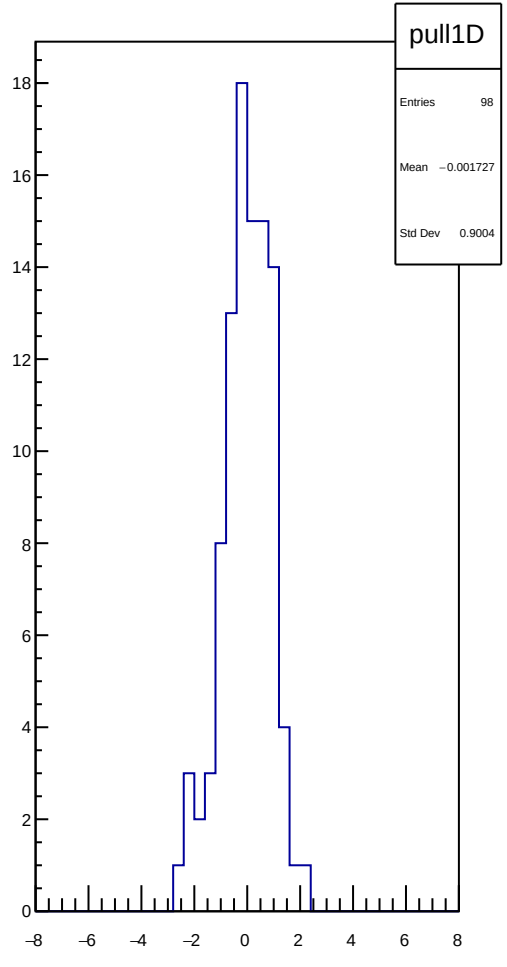

asym_dsr_rms vs run
χ^2 / ndf 325.1 / 97
p0 384 ± 0.2756
405
400
395
390
385
380
375
370

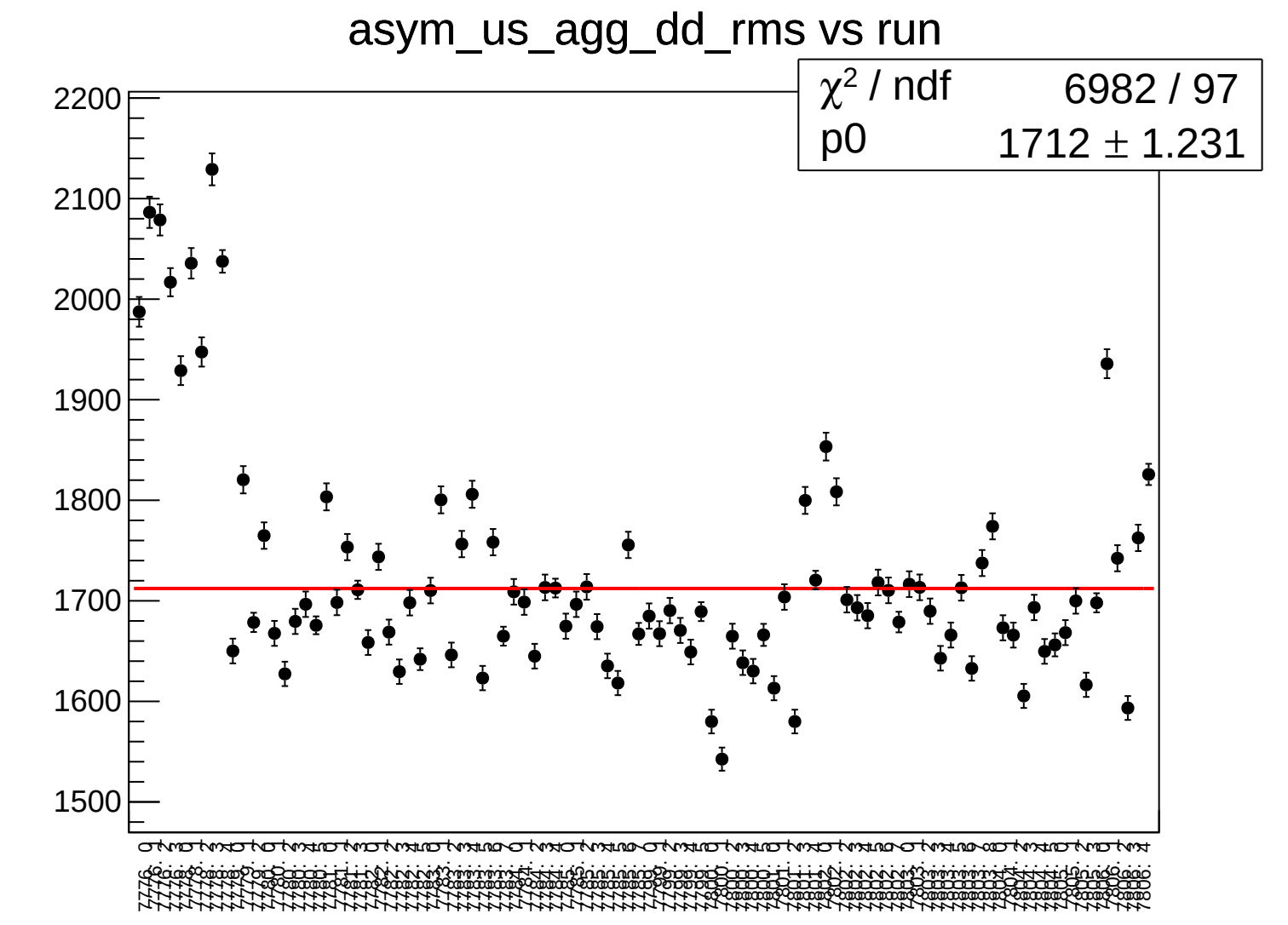

asym_us_agg_avg_mean vs run
χ² / ndf 85.35 / 97
p0 576.1 ± 1794
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 538.7
Std Dev 0
2
1
0
−1
−2

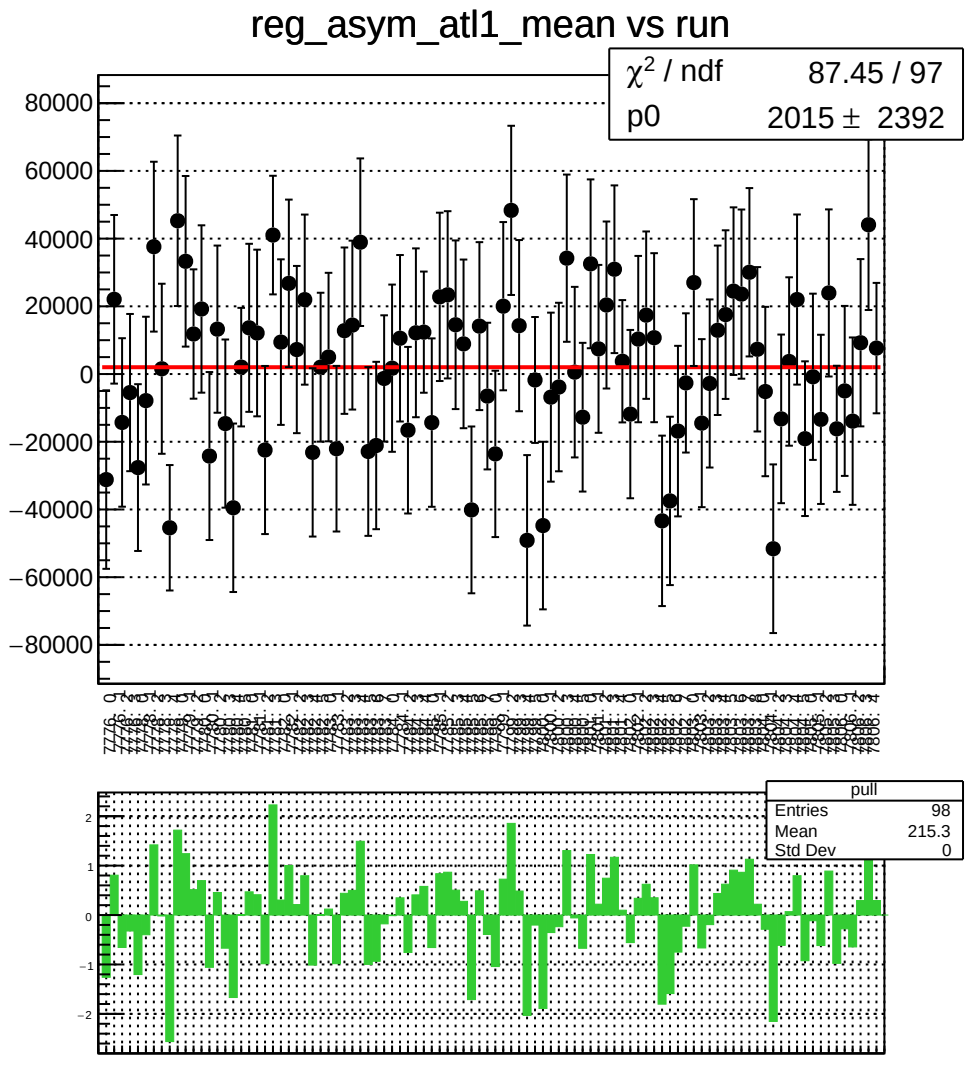

pull1D
Entries 98
Mean −0.01336
Std Dev 0.9332
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

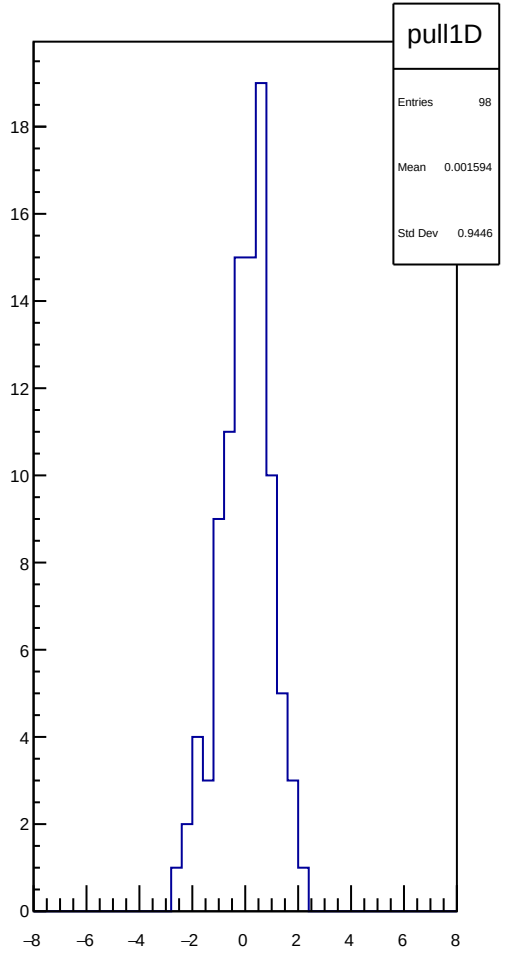

asym_us_agg_avg_rms vs run
χ² / ndf 4440 / 97
p0 1766 ± 1.269
2000
1950
1900
1850
1800
1750
1700
1650
1600

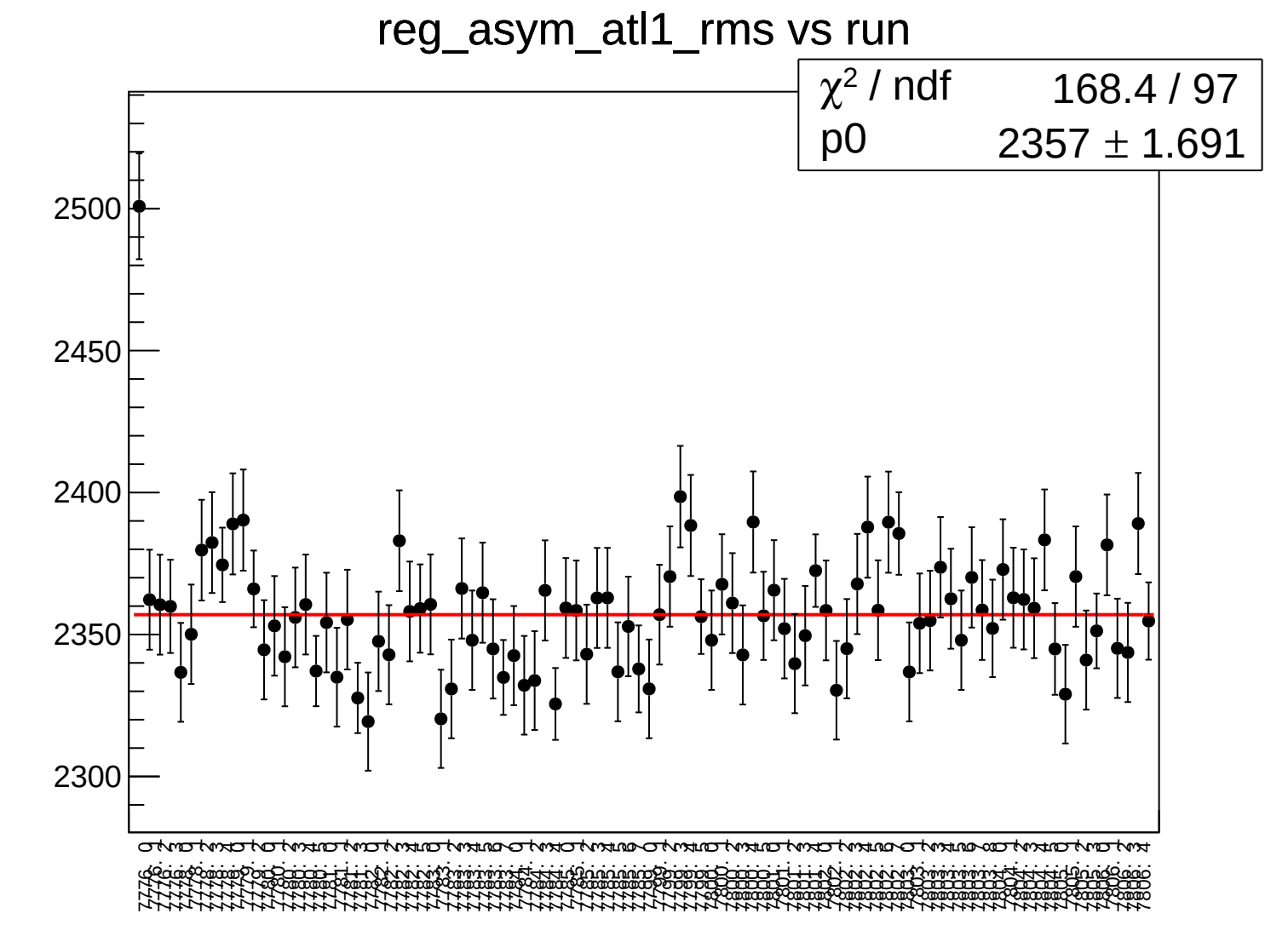

asym_us_agg_dd_mean vs run
χ² / ndf 79.45 / 97
p0 1713 ± 1740
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −2656
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

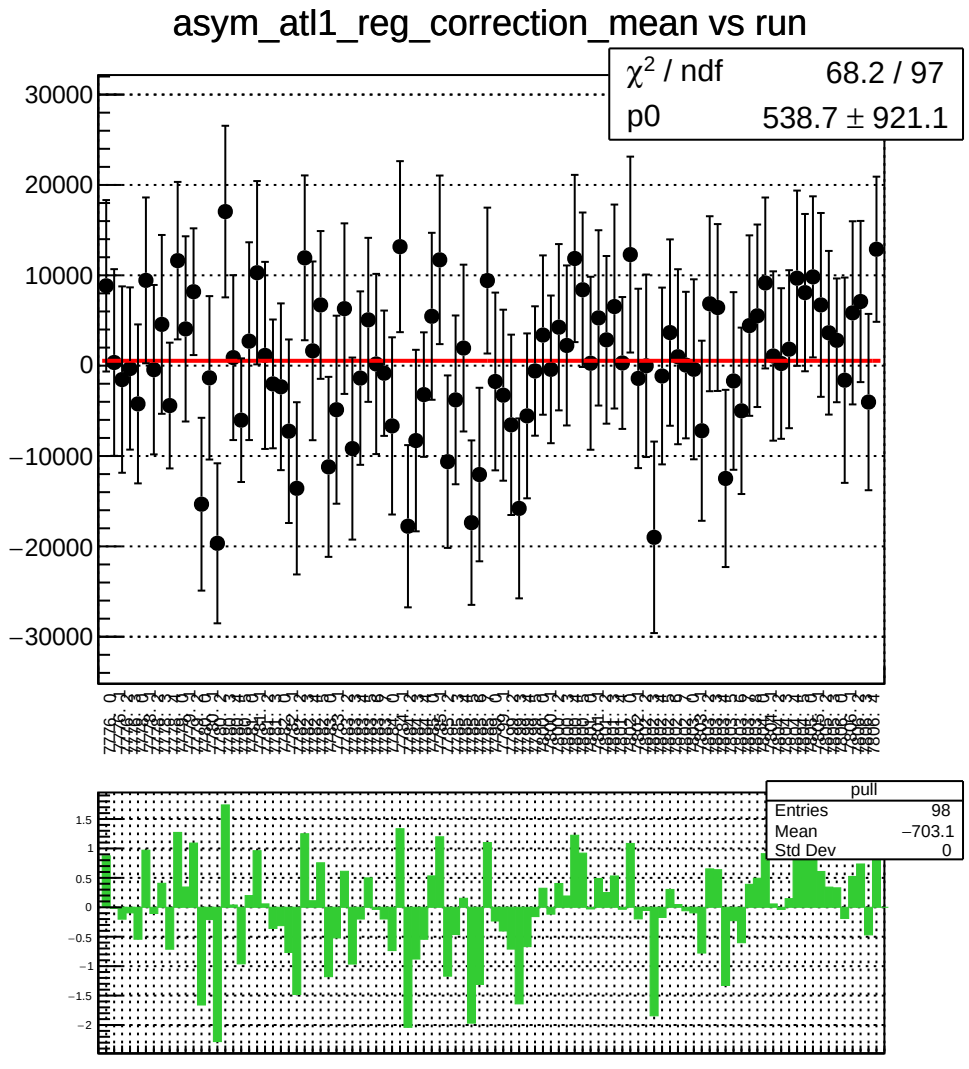

pull1D
Entries 98
Mean −0.001727
Std Dev 0.9004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

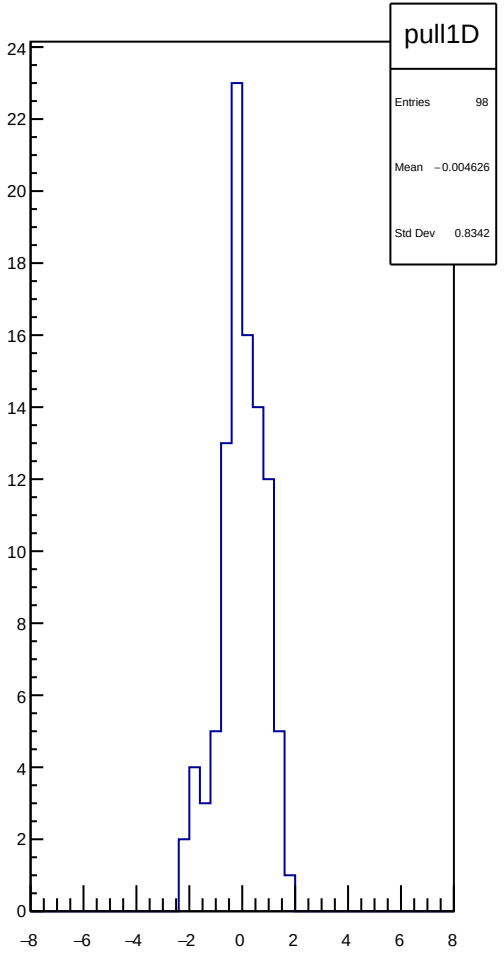

asym_us_agg_dd_rms vs run
χ^2 / ndf 6982 / 97
p0 1712 ± 1.231
2200
2100
2000
1900
1800
1700
1600
1500

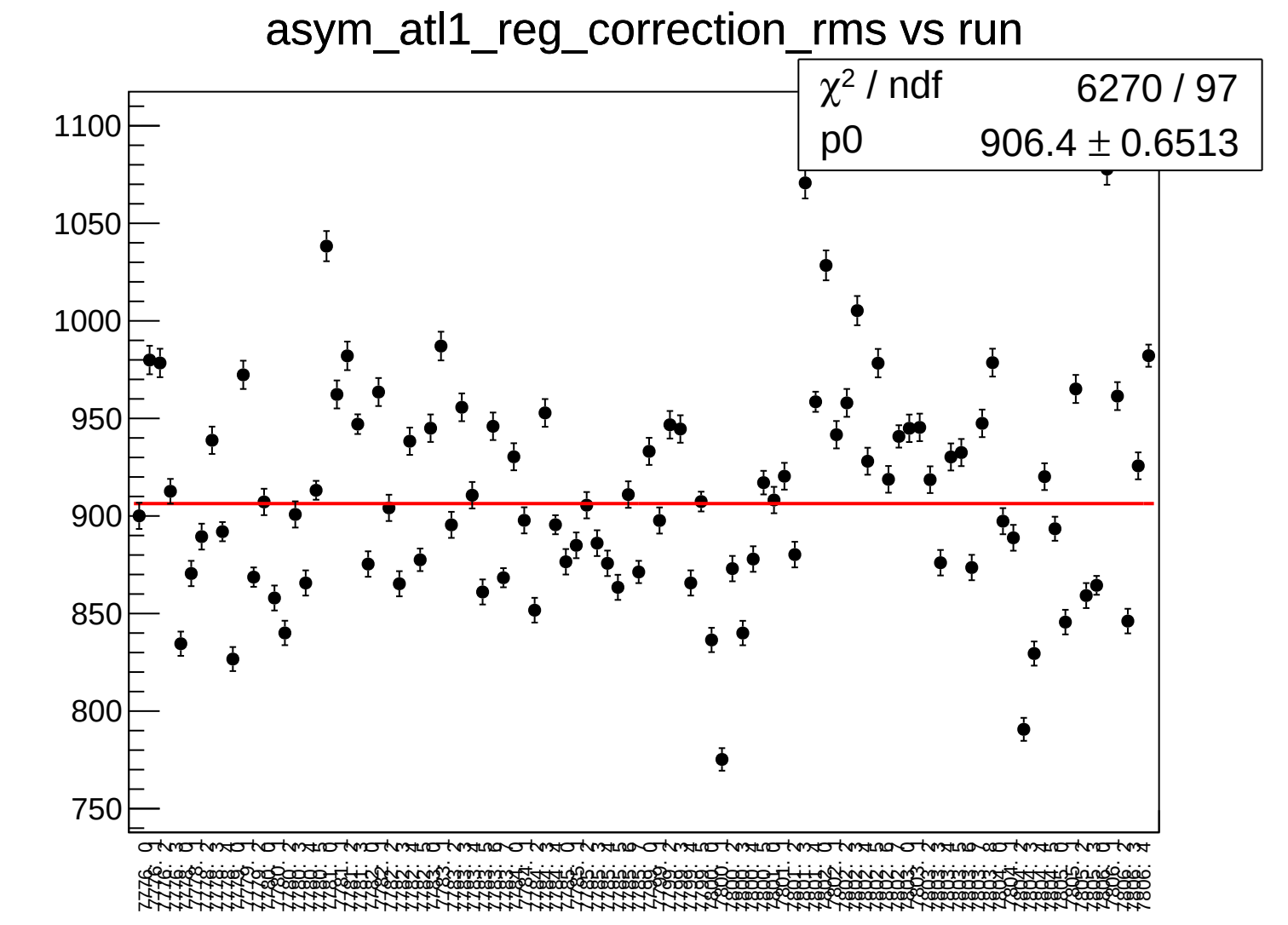

reg_asym_atl1_mean vs run
χ² / ndf 87.45 / 97
p0 2015 ± 2392
pull
Entries 98
Mean 215.3
Std Dev 0

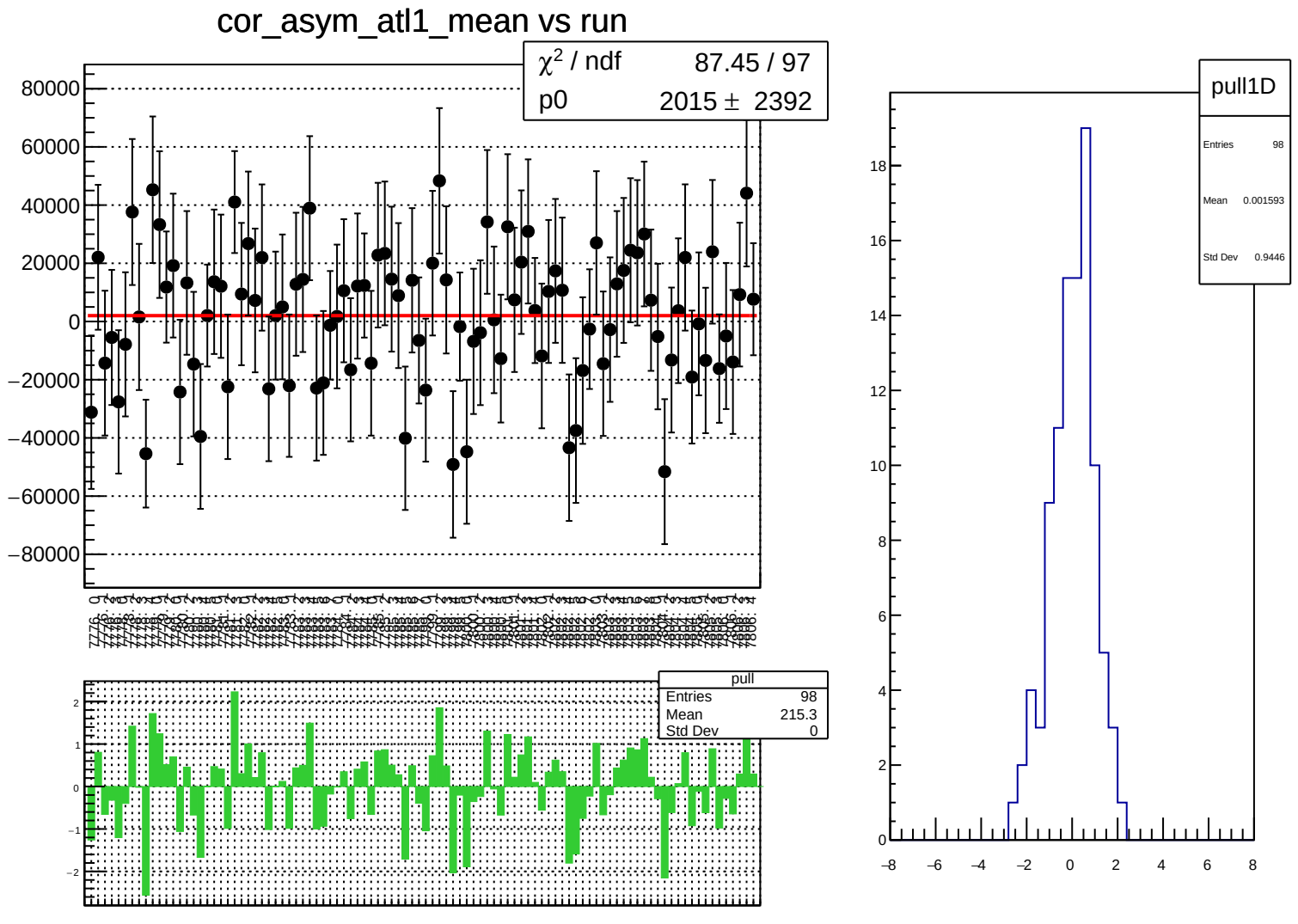

pull1D
Entries 98
Mean 0.001594
Std Dev 0.9446

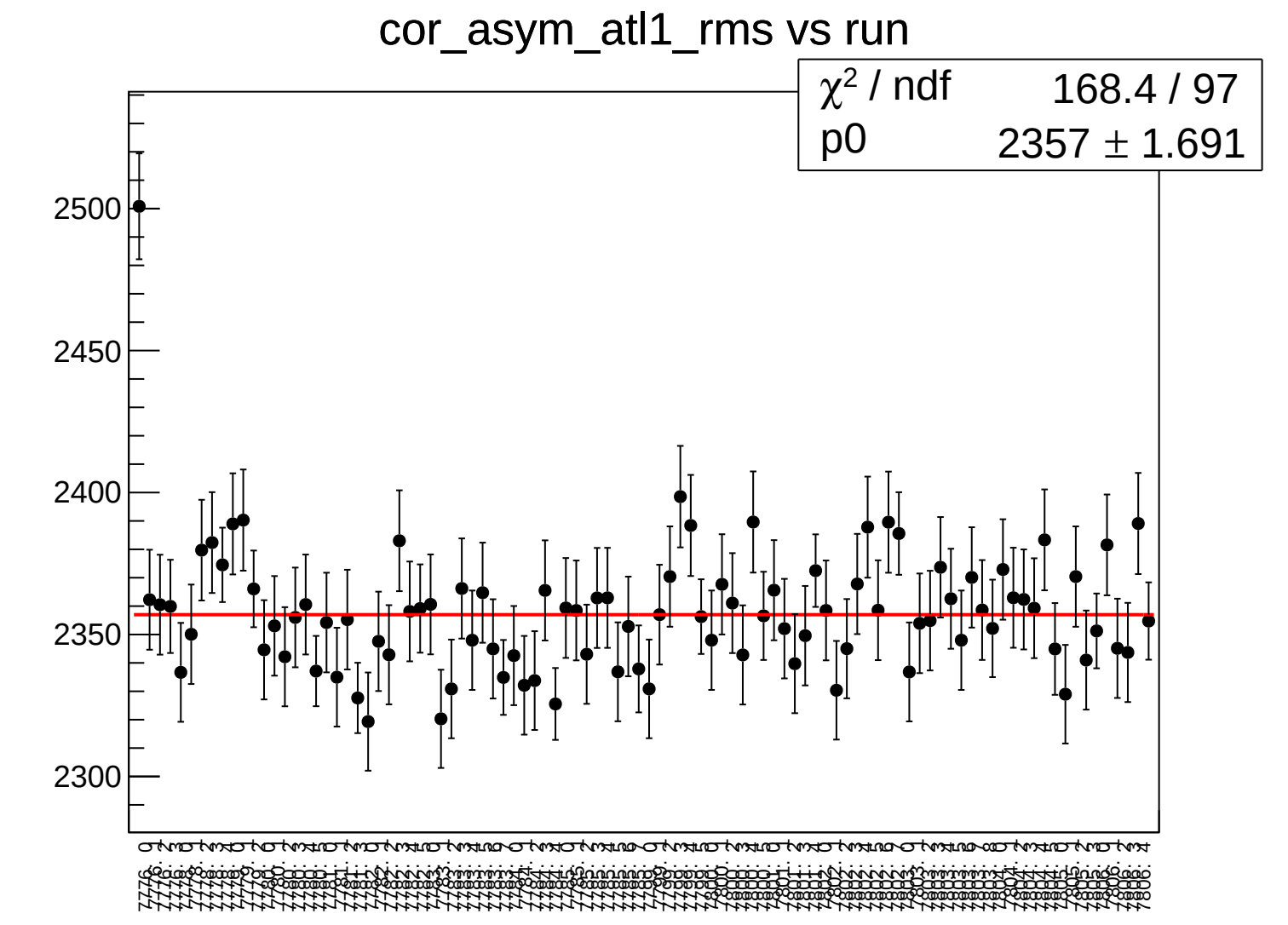

reg_asym_atl1_rms vs run
χ^2 / ndf 168.4 / 97
p0 2357 ± 1.691
2500
2450
2400
2350
2300

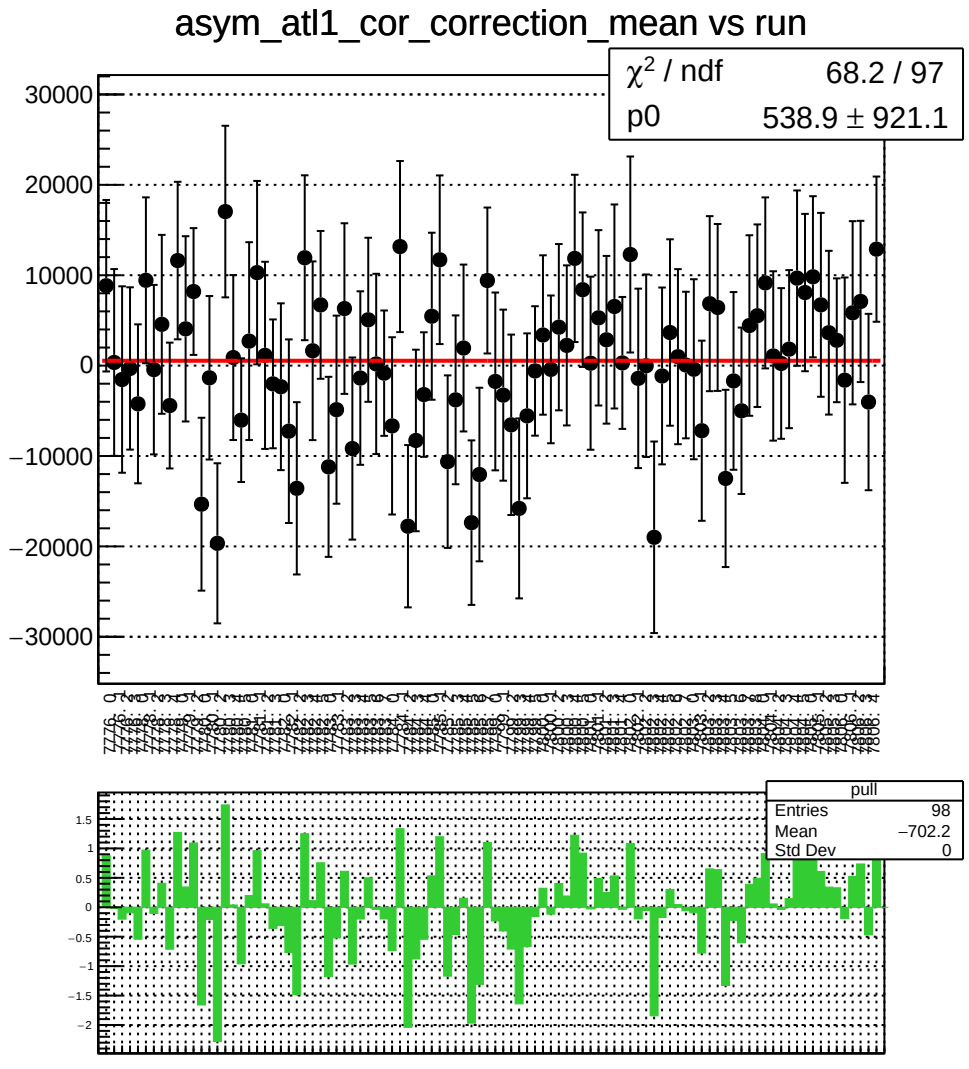

asym_atl1_reg_correction_mean vs run
χ² / ndf 68.2 / 97
p0 538.7 ± 921.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −703.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

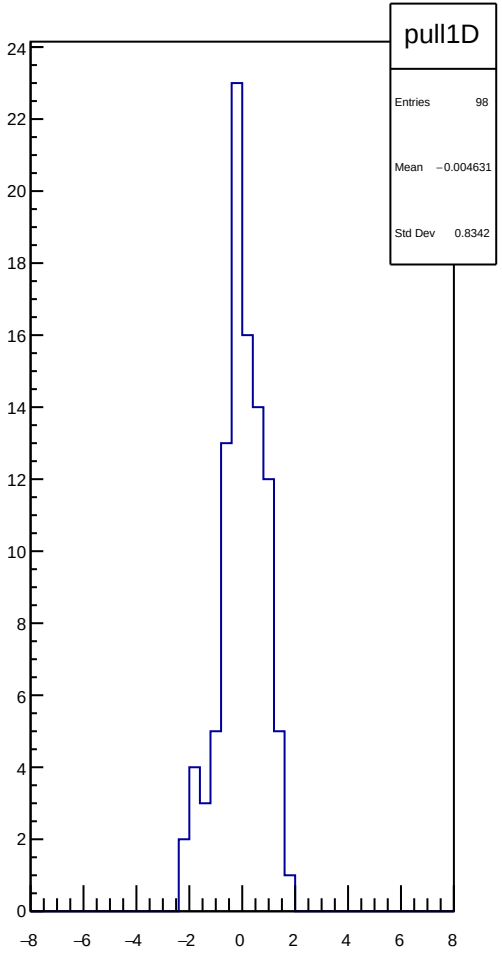

pull1D
Entries 98
Mean −0.004626
Std Dev 0.8342
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

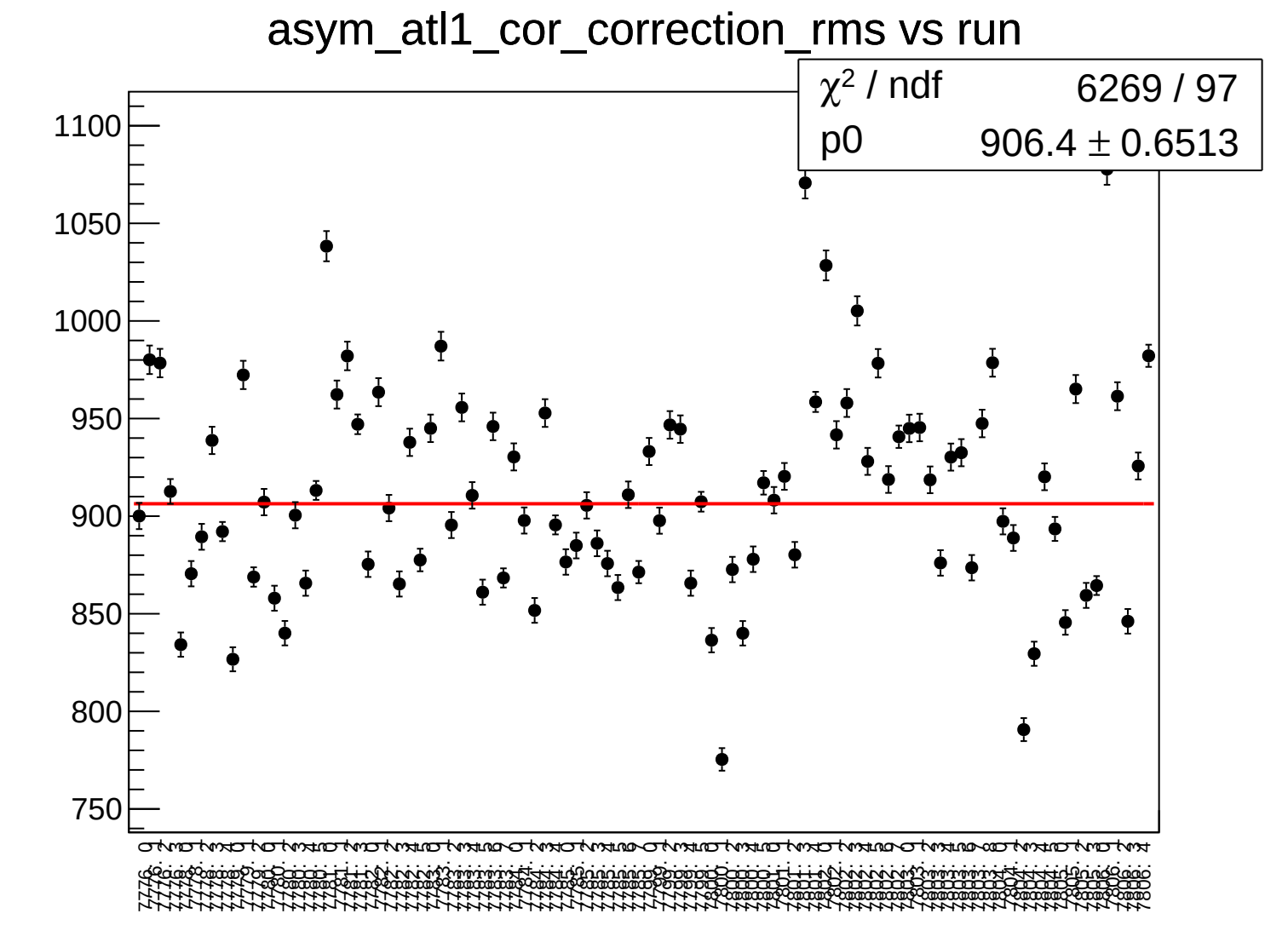

asym_atl1_reg_correction_rms vs run
χ² / ndf 6270 / 97
p0 906.4 ± 0.6513
1100
1050
1000
950
900
850
800
750

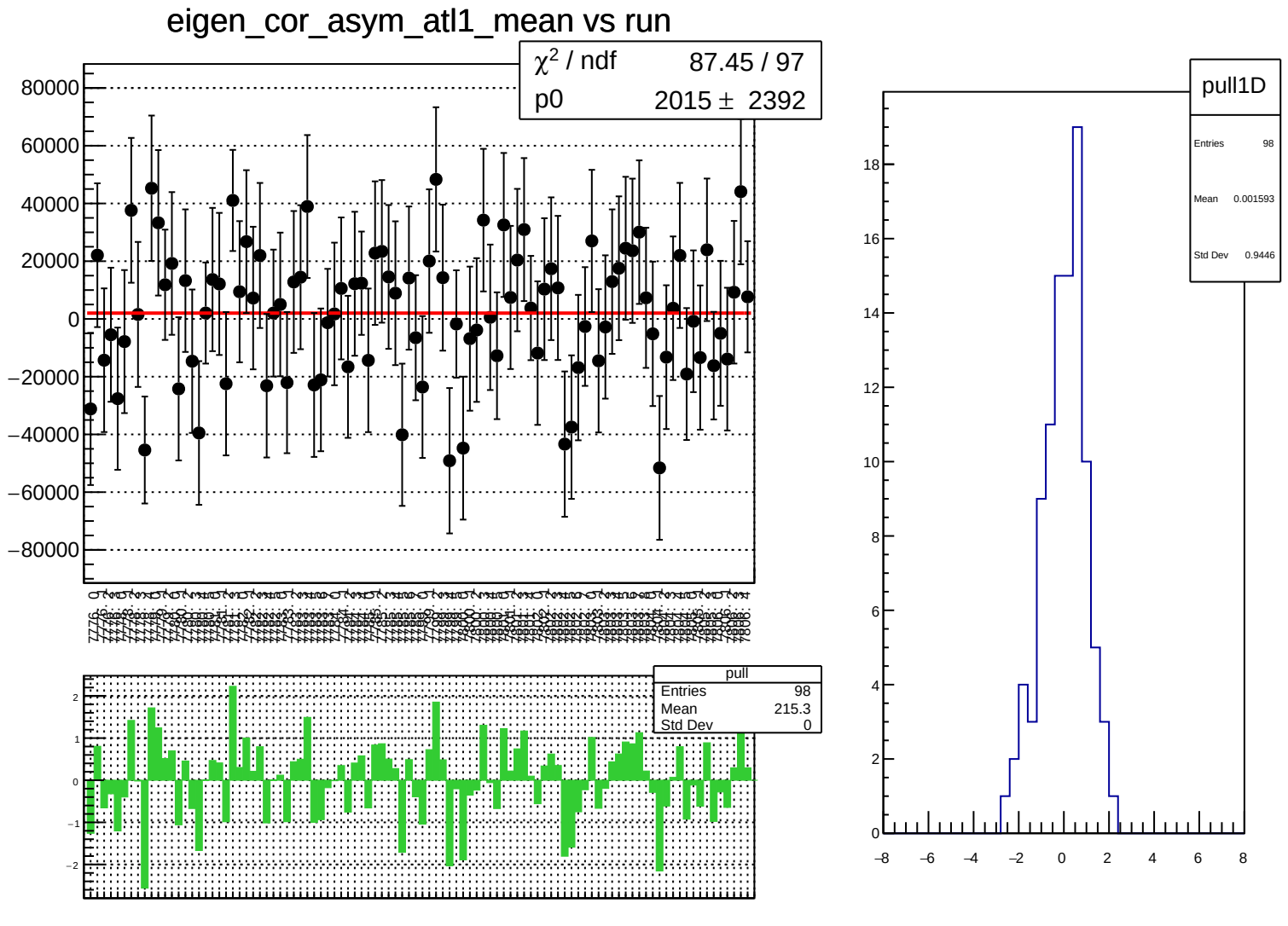

cor_asym_atl1_mean vs run
χ² / ndf 87.45 / 97
p0 2015 ± 2392
pull
Entries 98
Mean 215.3
Std Dev 0
pull1D
Entries 98
Mean 0.001593
Std Dev 0.9446

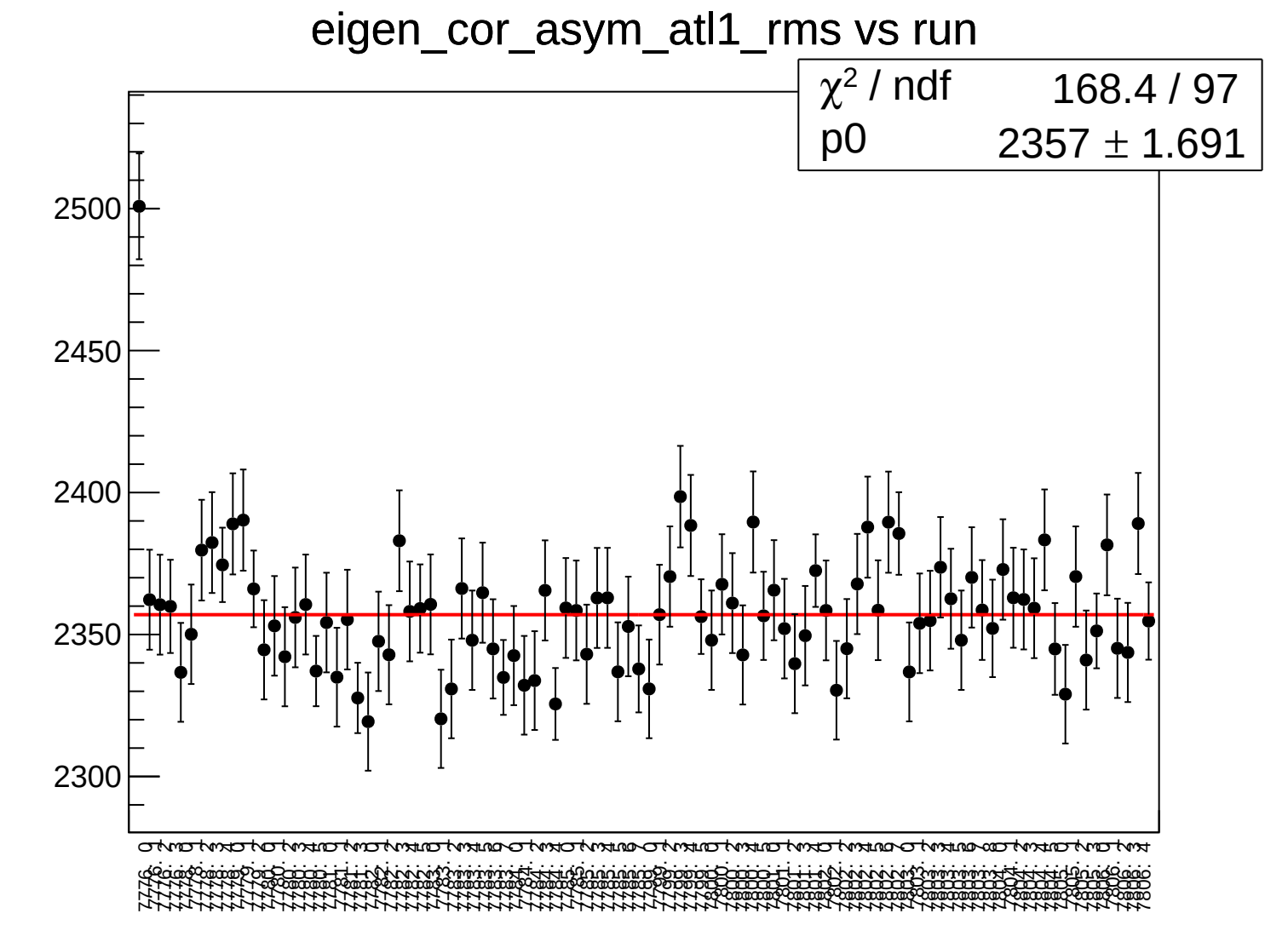

cor_asym_atl1_rms vs run
χ^2 / ndf 168.4 / 97
p0 2357 ± 1.691
2500
2450
2400
2350
2300

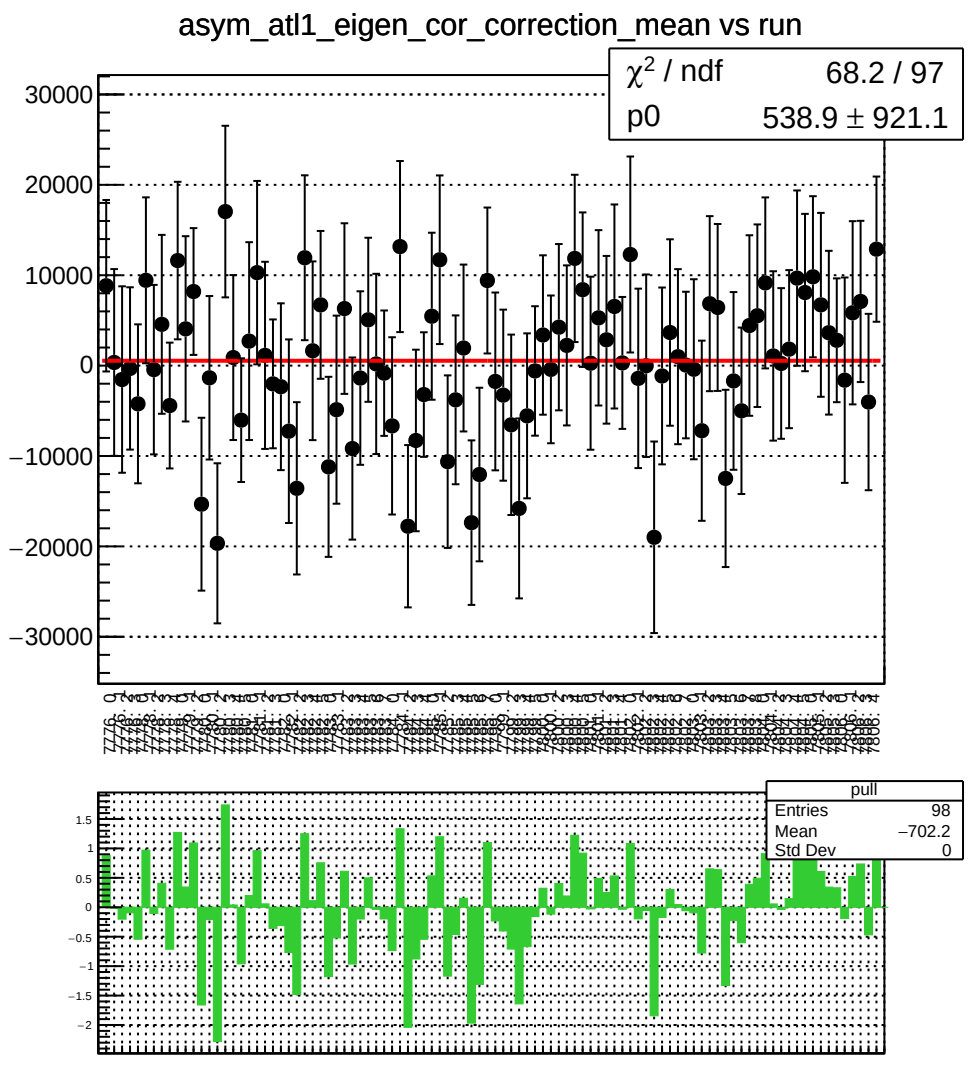

asym_atl1_cor_correction_mean vs run
χ² / ndf 68.2 / 97
p0 538.9 ± 921.1
pull
Entries 98
Mean −702.2
Std Dev 0

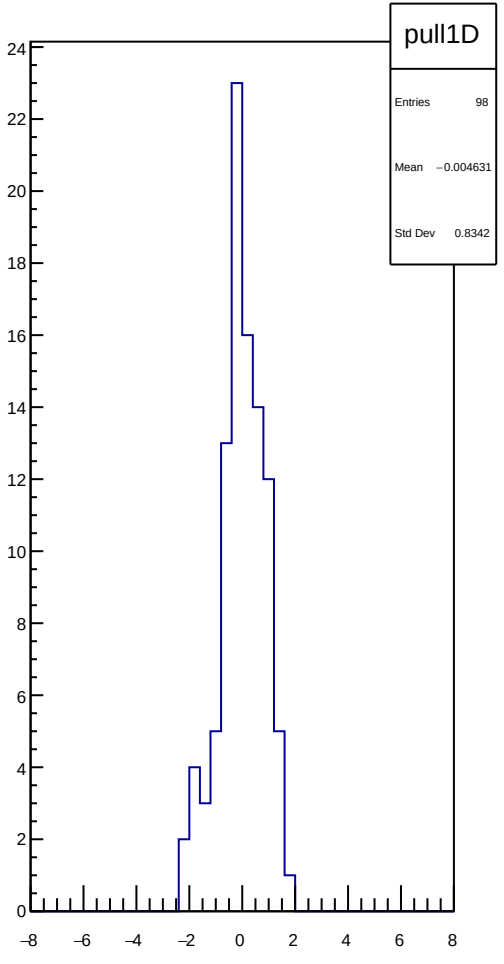

pull1D
Entries 98
Mean −0.004631
Std Dev 0.8342

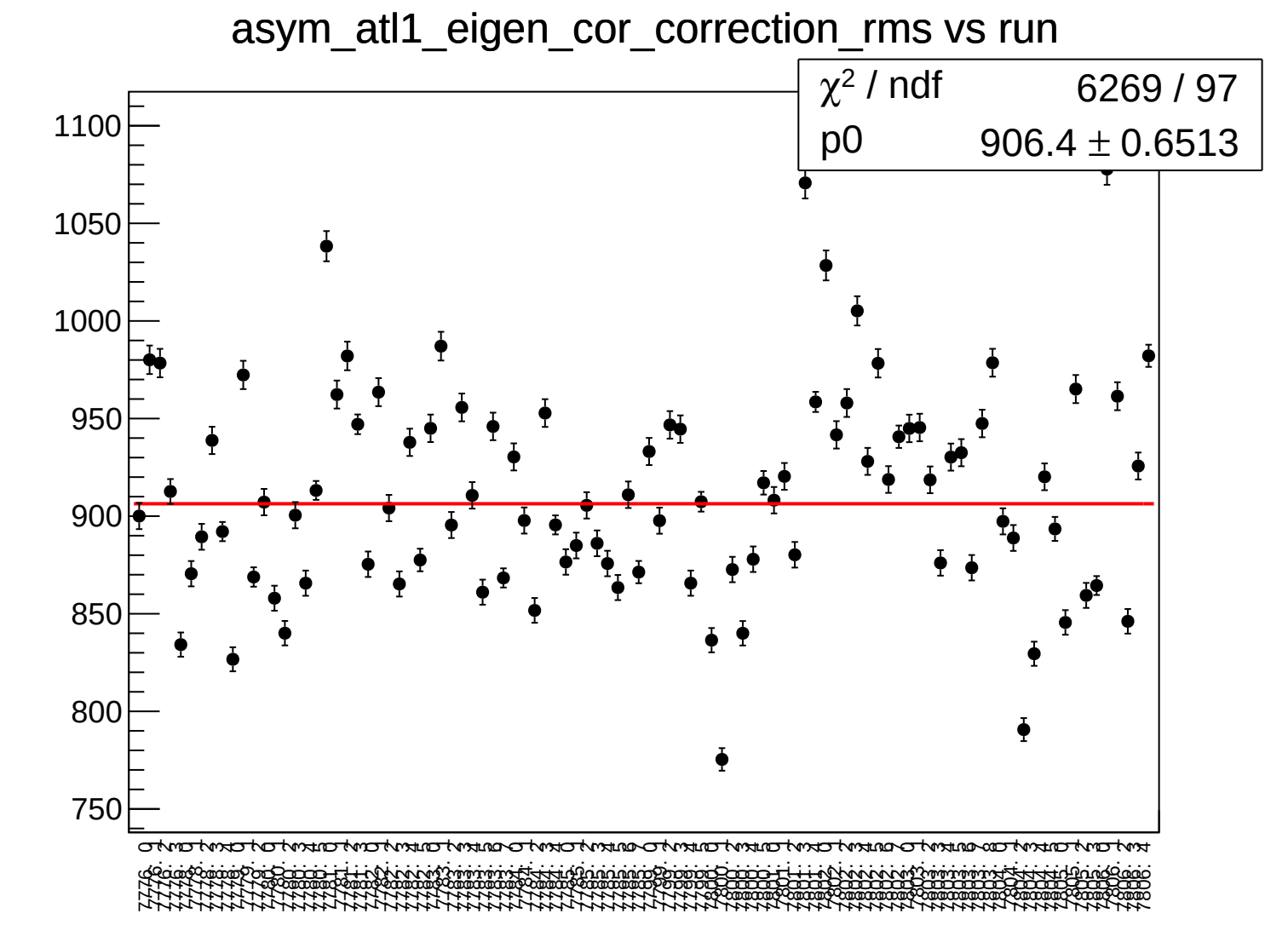

asym_atl1_cor_correction_rms vs run
χ² / ndf 6269 / 97
p0 906.4 ± 0.6513
1100
1050
1000
950
900
850
800
750

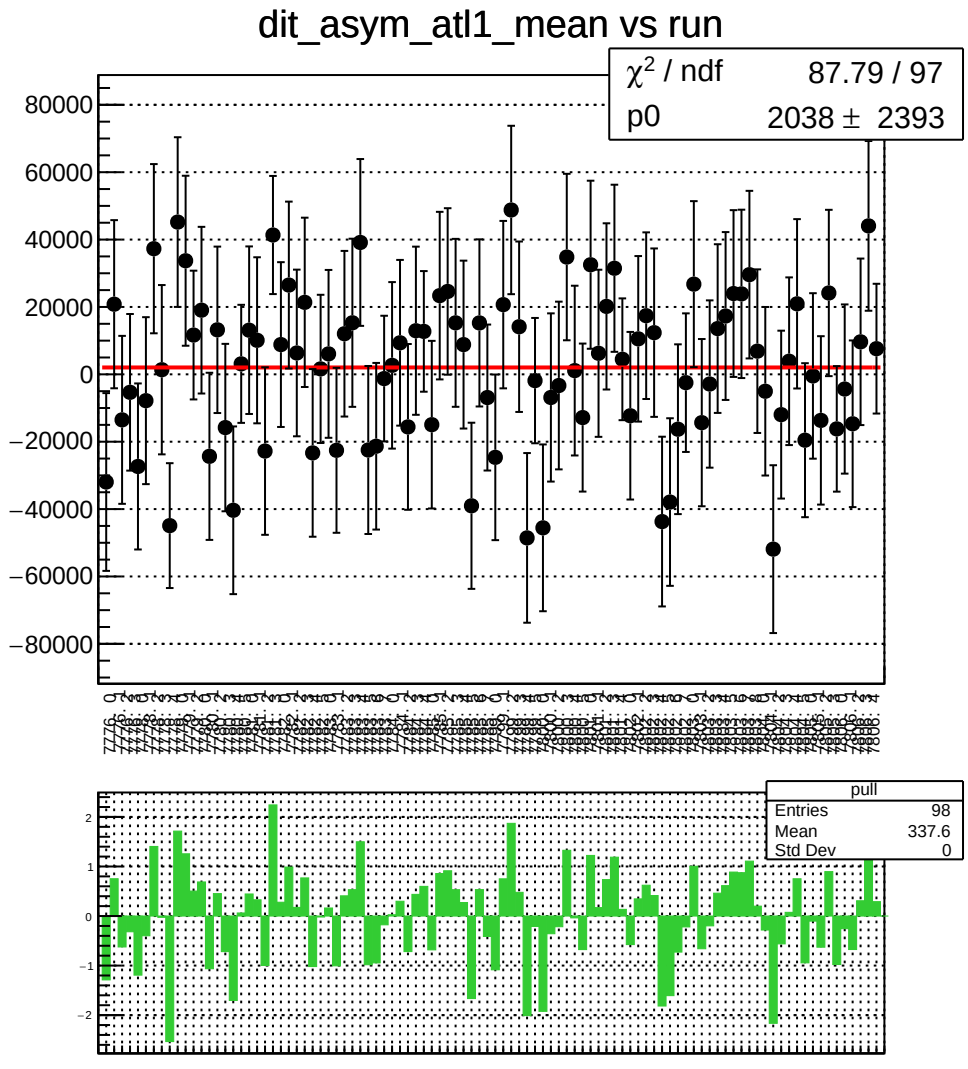

eigen_cor_asym_atl1_mean vs run
χ² / ndf 87.45 / 97
p0 2015 ± 2392
pull
Entries 98
Mean 215.3
Std Dev 0
pull1D
Entries 98
Mean 0.001593
Std Dev 0.9446

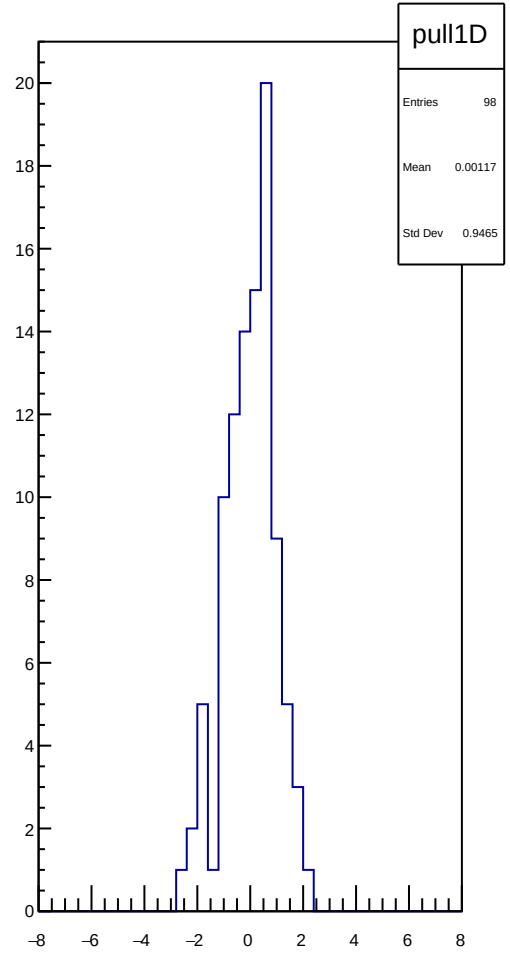

eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 168.4 / 97
p0 2357 ± 1.691
2500
2450
2400
2350
2300

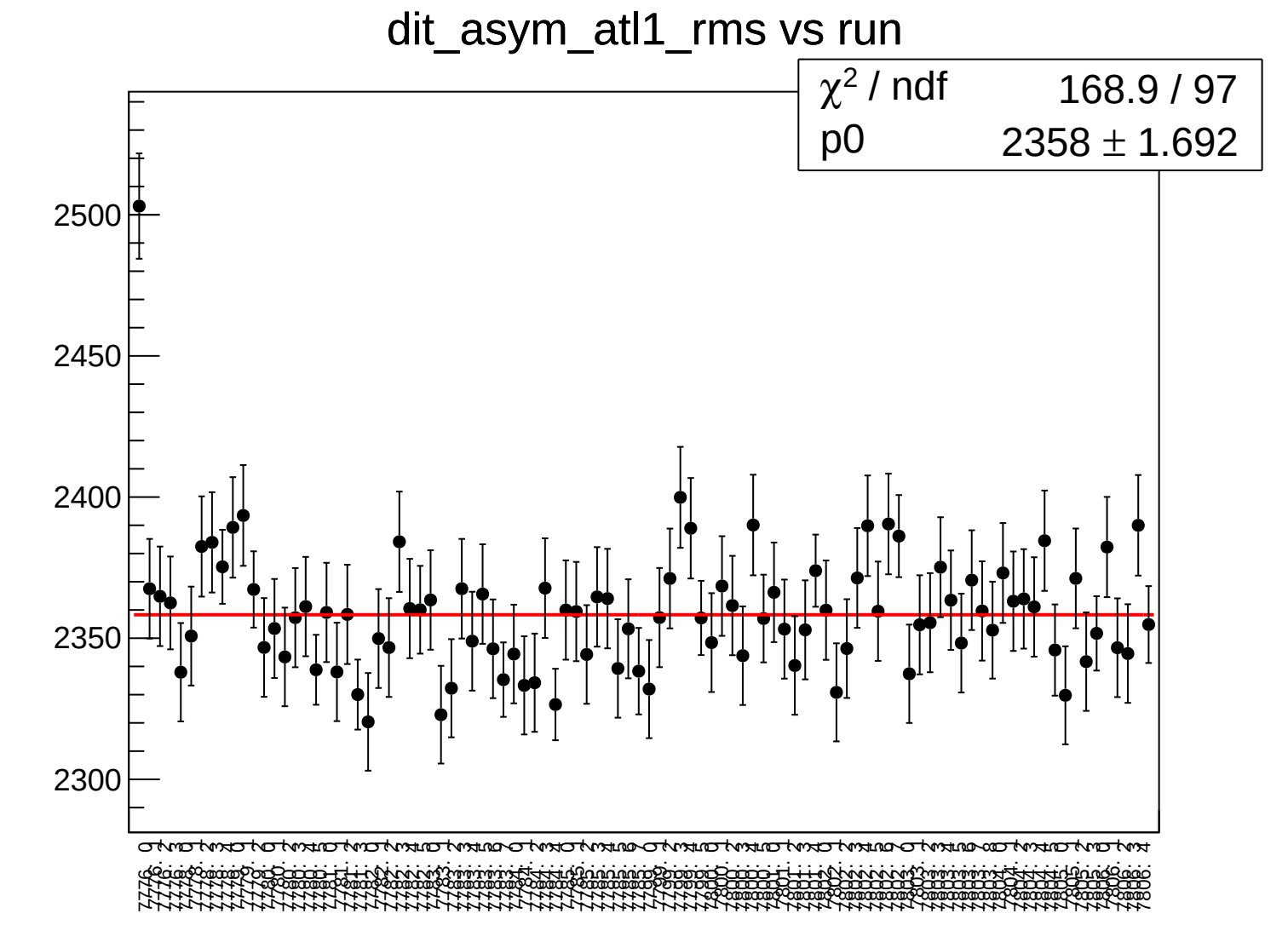

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 68.2 / 97
p0 538.9 ± 921.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −702.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

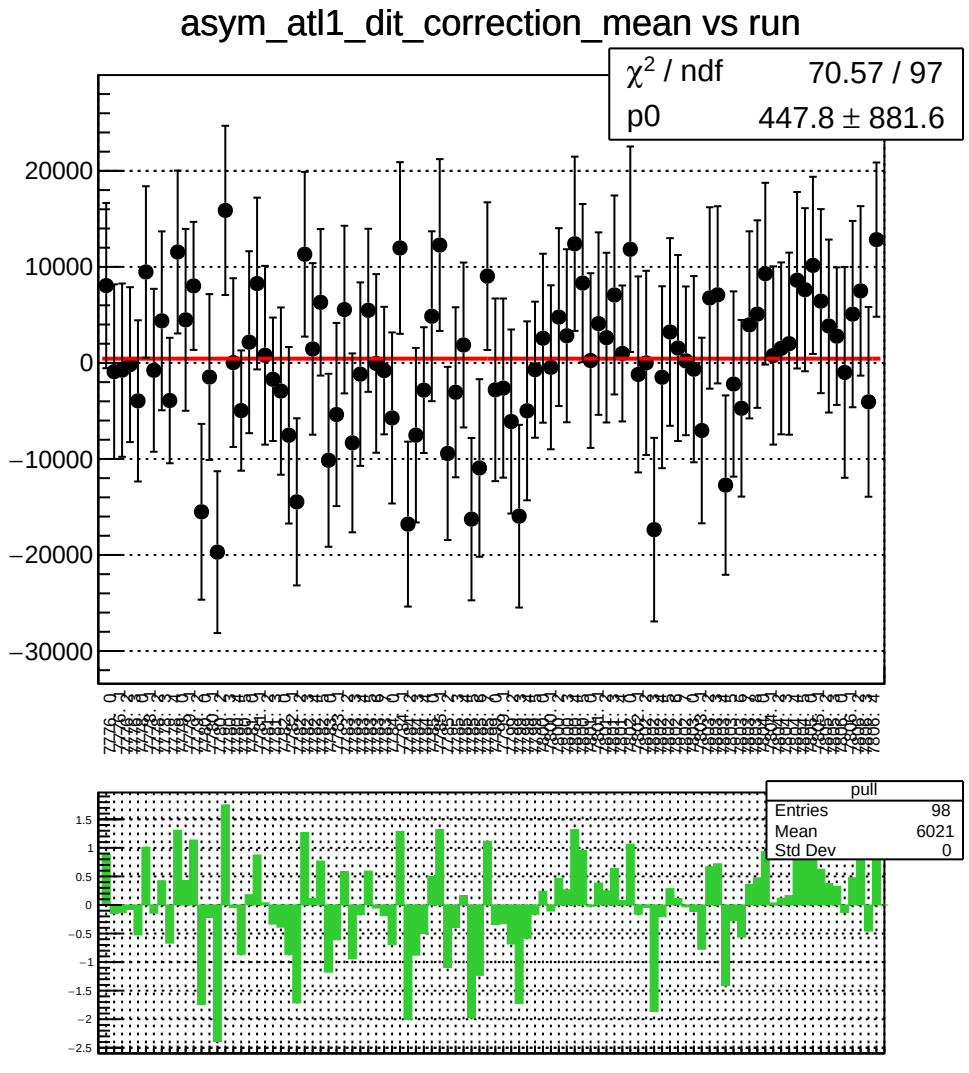

pull1D
Entries 98
Mean −0.004631
Std Dev 0.8342
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

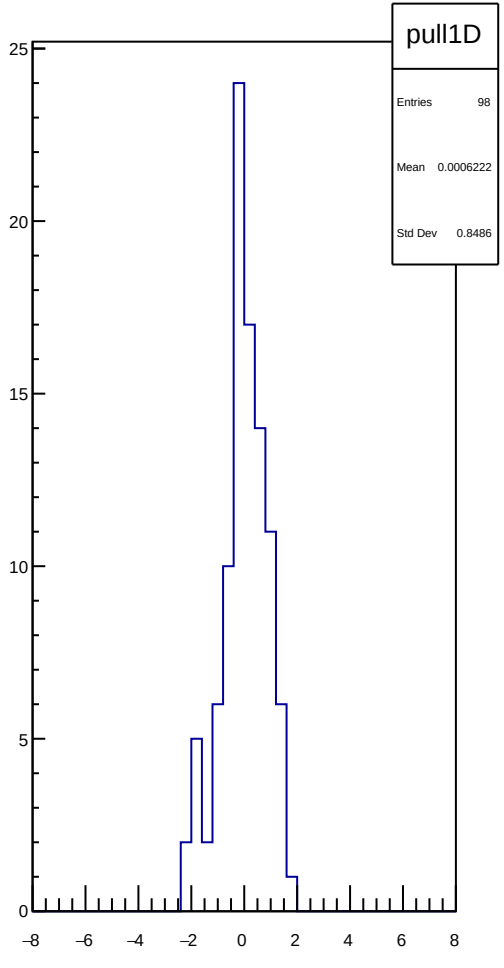

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 6269 / 97
p0 906.4 ± 0.6513
1100
1050
1000
950
900
850
800
750

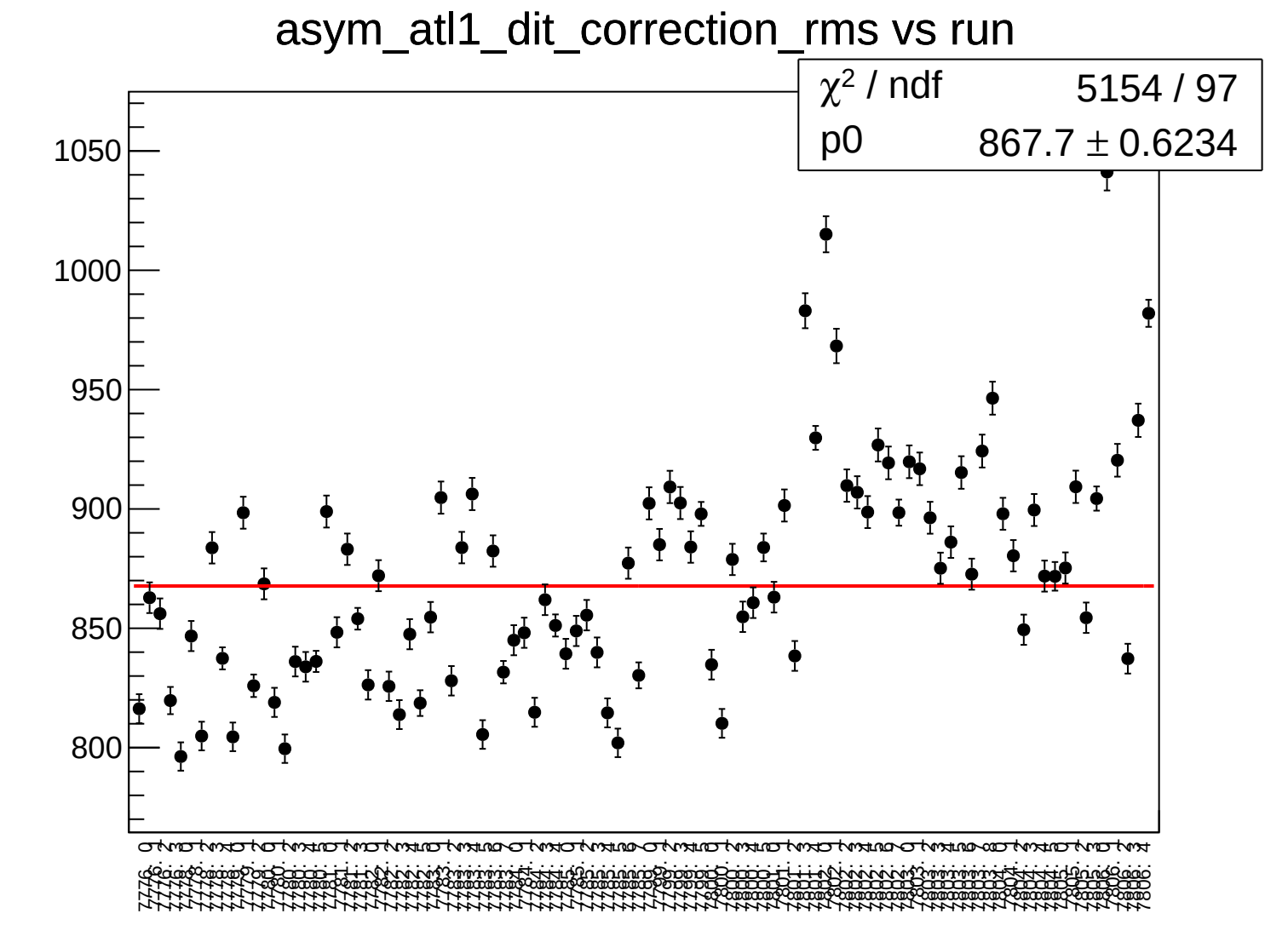

dit_asym_atl1_mean vs run
χ² / ndf 87.79 / 97
p0 2038 ± 2393
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 337.6
Std Dev 0
2
1
0
−1
−2

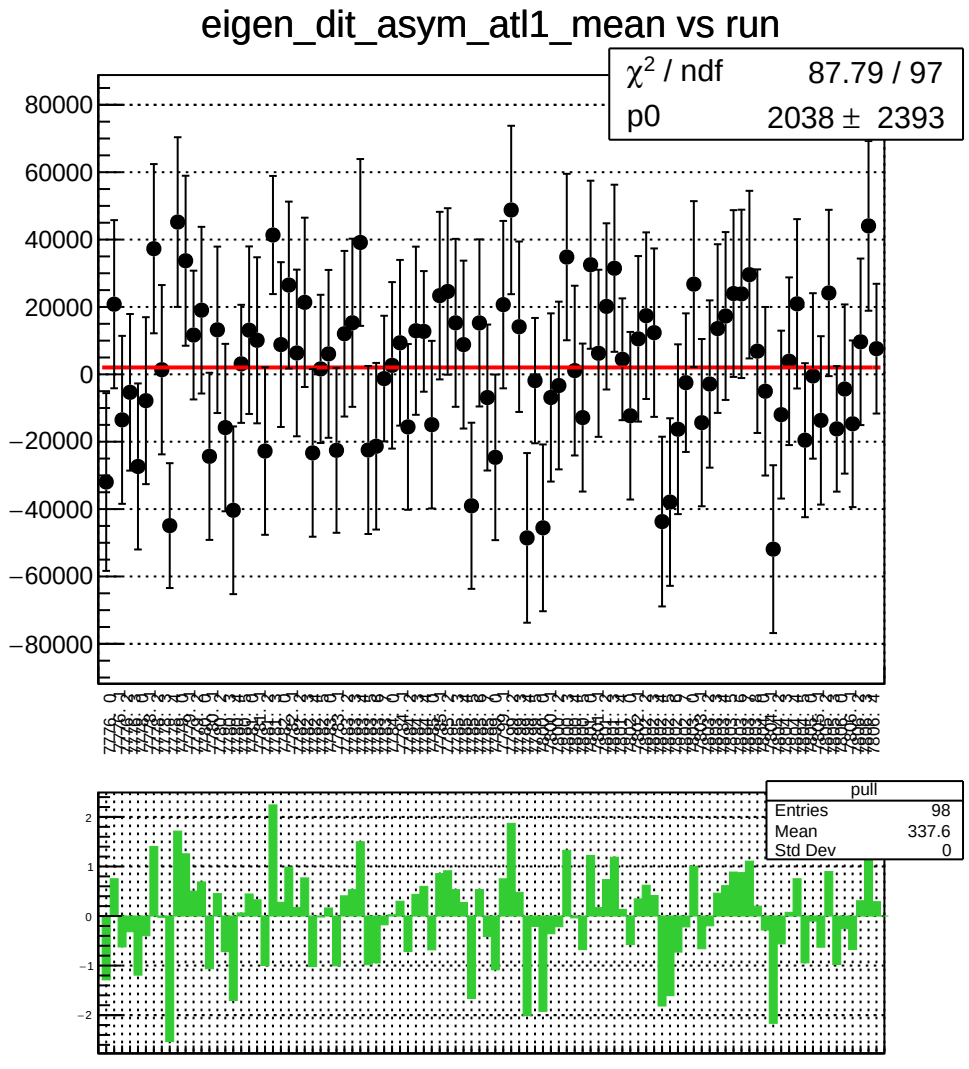

pull1D
Entries 98
Mean 0.00117
Std Dev 0.9465
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

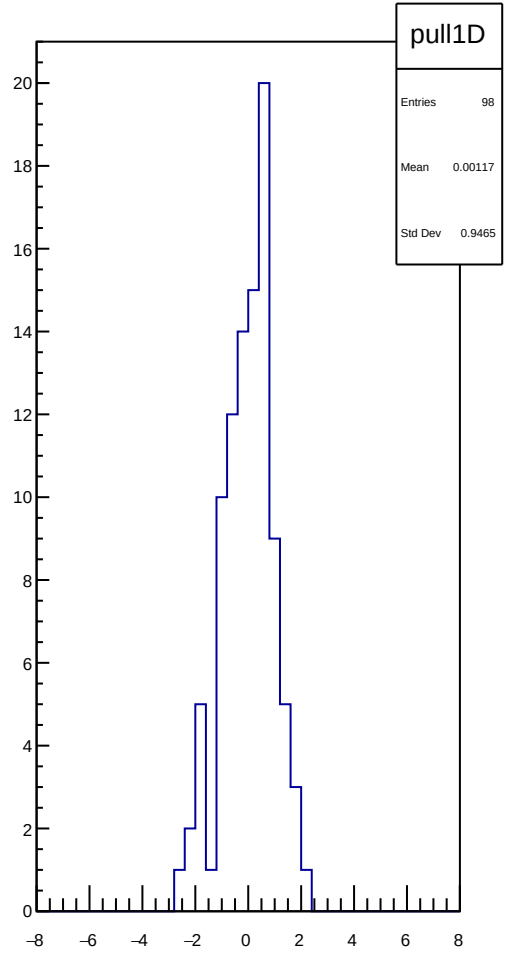

dit_asym_atl1_rms vs run
χ^2 / ndf 168.9 / 97
p0 2358 ± 1.692
2500
2450
2400
2350
2300

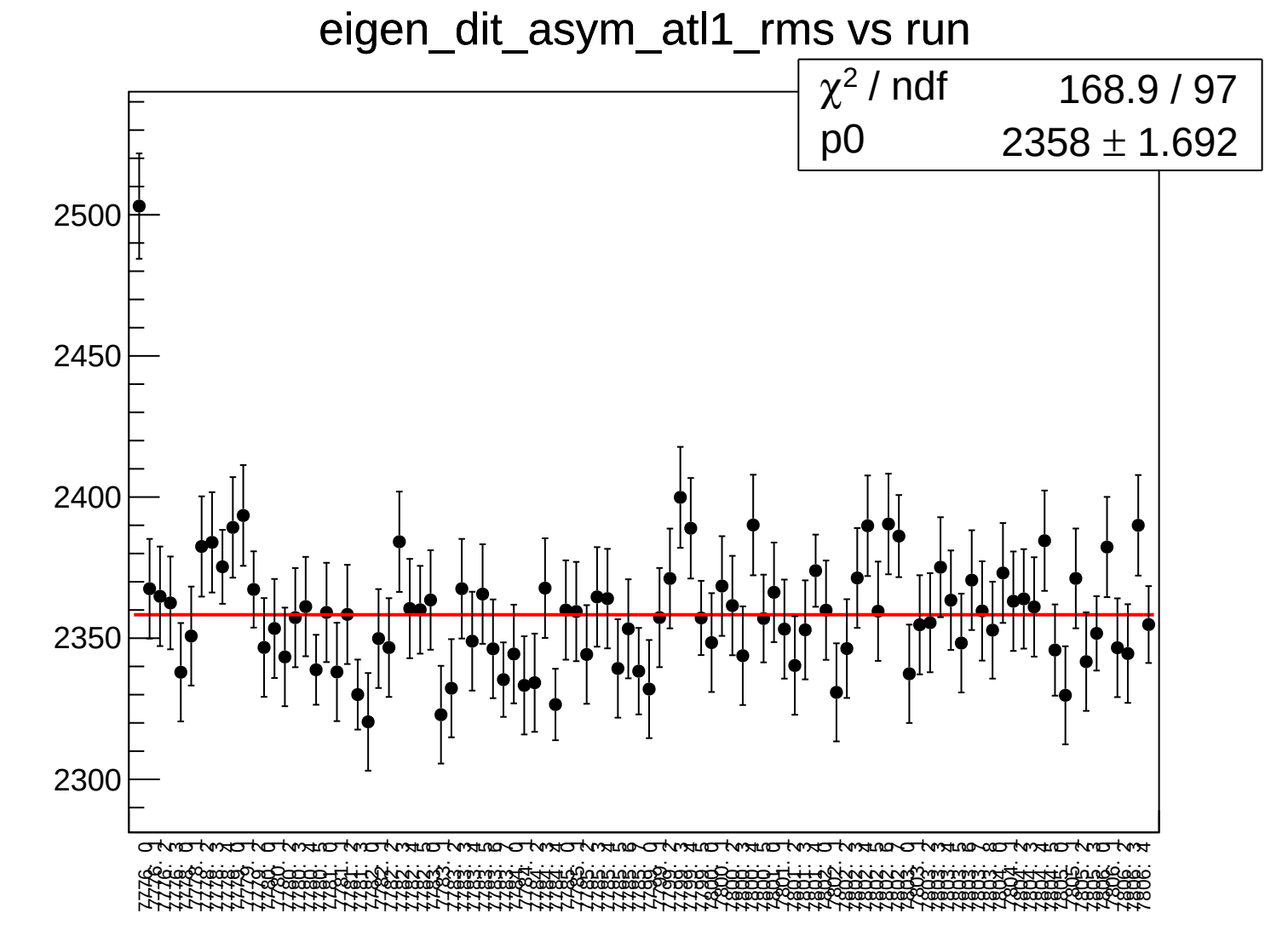

asym_atl1_dit_correction_mean vs run
χ² / ndf 70.57 / 97
p0 447.8 ± 881.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 6021
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

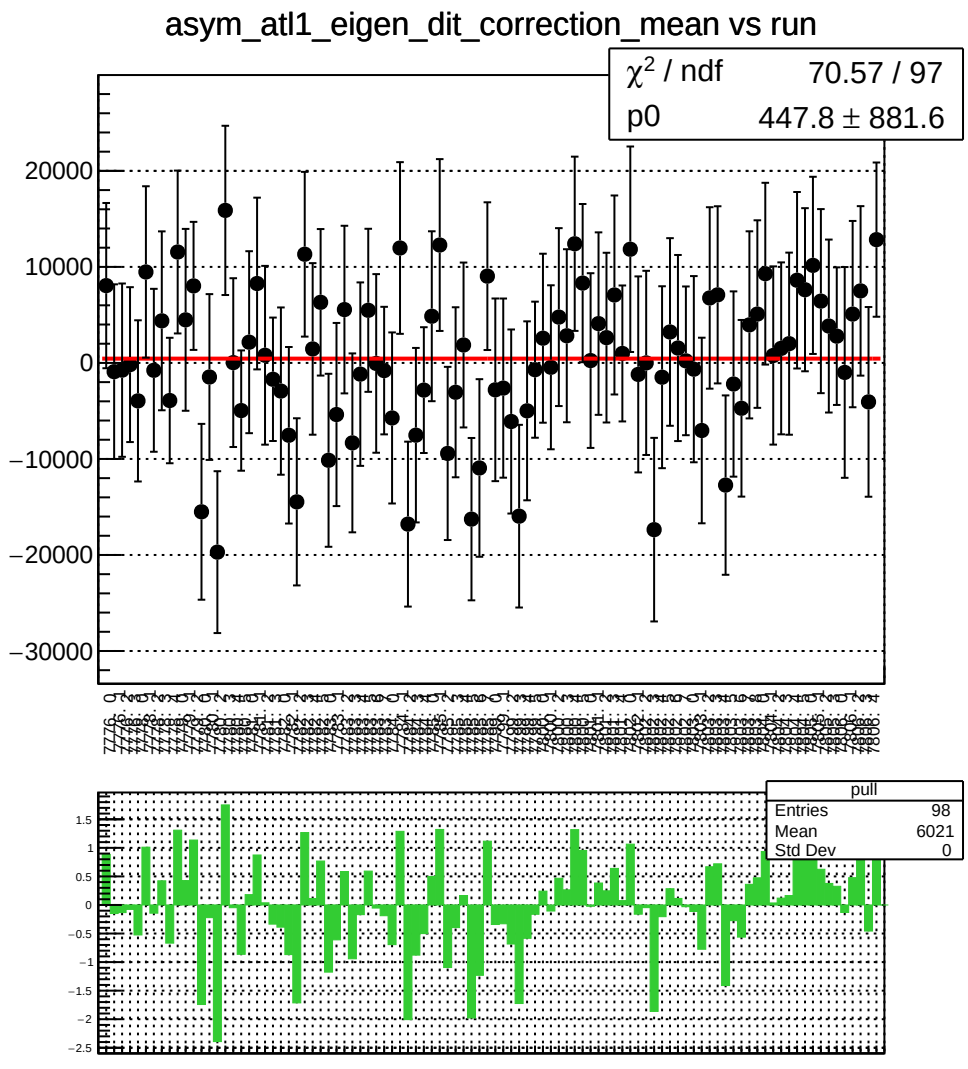

pull1D
Entries 98
Mean 0.0006222
Std Dev 0.8486
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

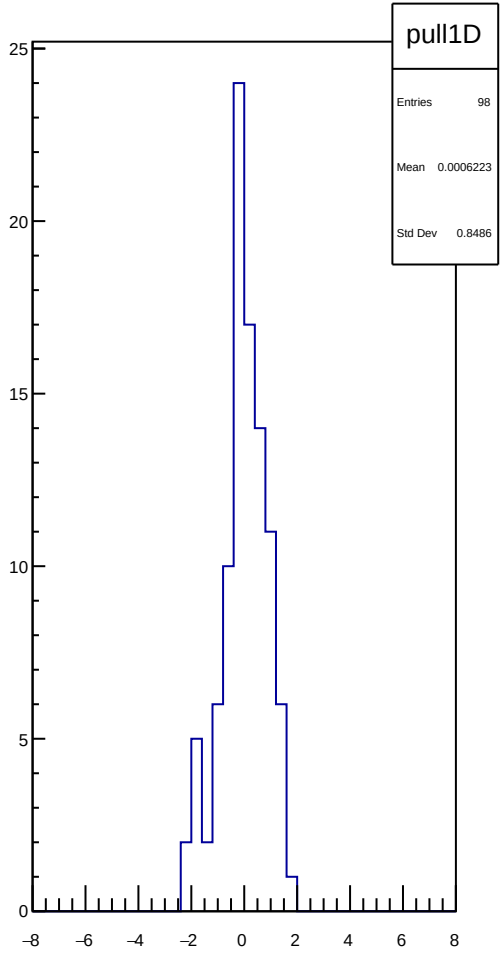

asym_atl1_dit_correction_rms vs run
χ² / ndf 5154 / 97
p0 867.7 ± 0.6234
1050
1000
950
900
850
800

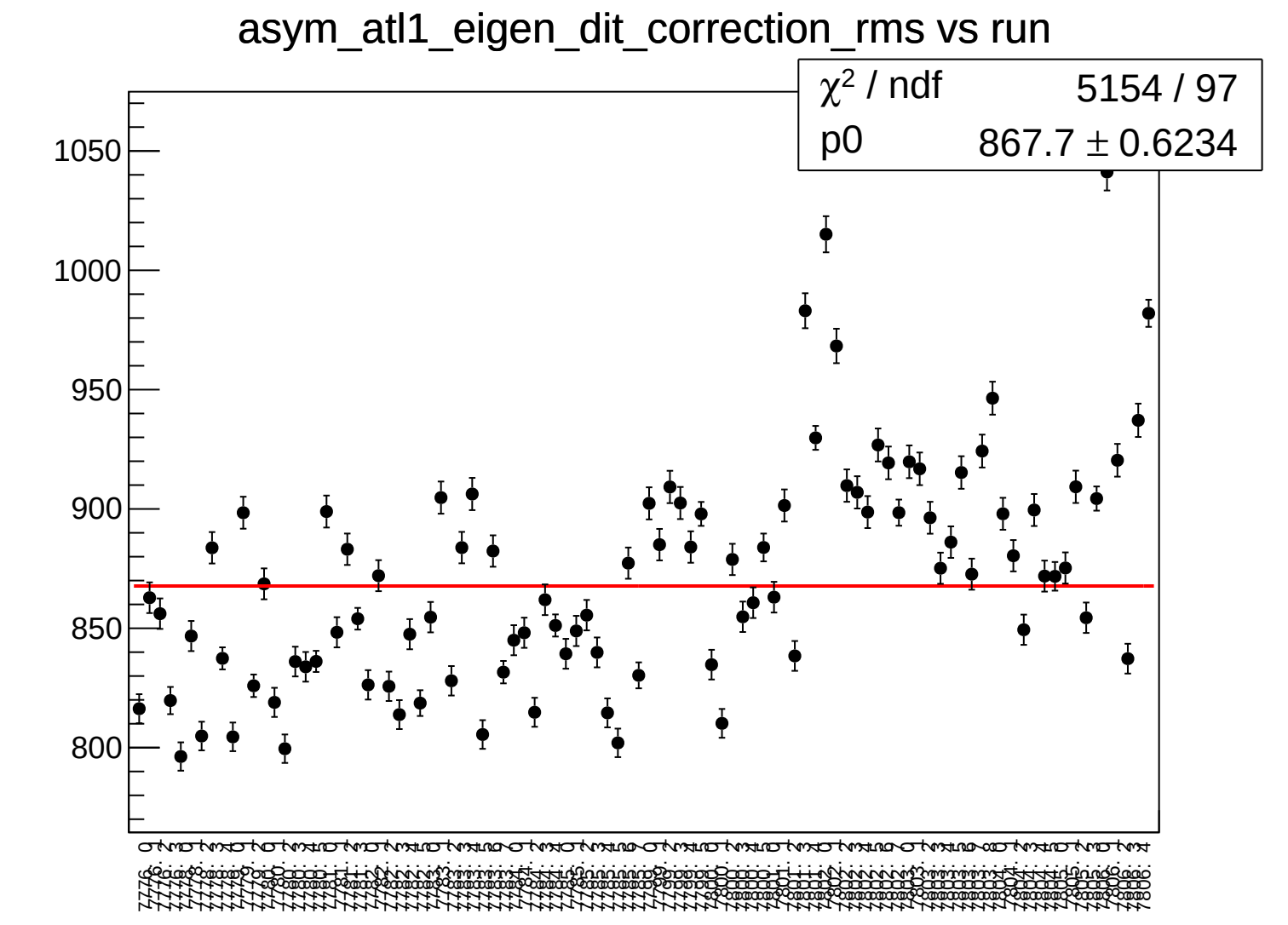

eigen_dit_asym_atl1_mean vs run
χ² / ndf 87.79 / 97
p0 2038 ± 2393
pull
Entries 98
Mean 337.6
Std Dev 0

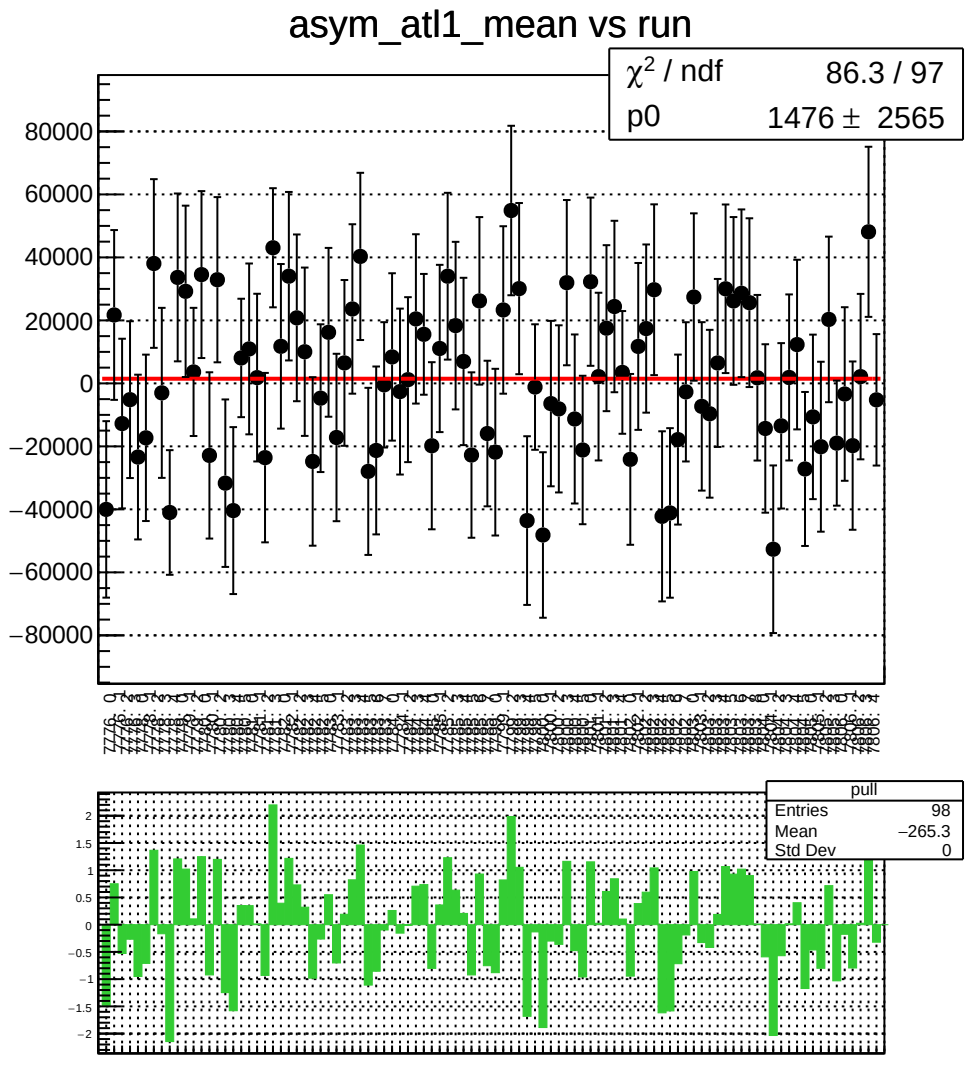

pull1D
Entries 98
Mean 0.00117
Std Dev 0.9465

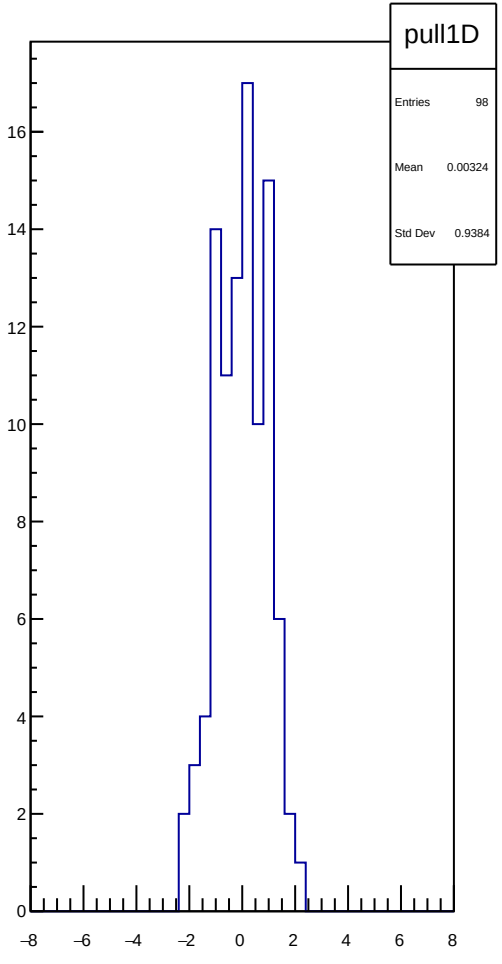

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 168.9 / 97
p0 2358 ± 1.692
2500
2450
2400
2350
2300

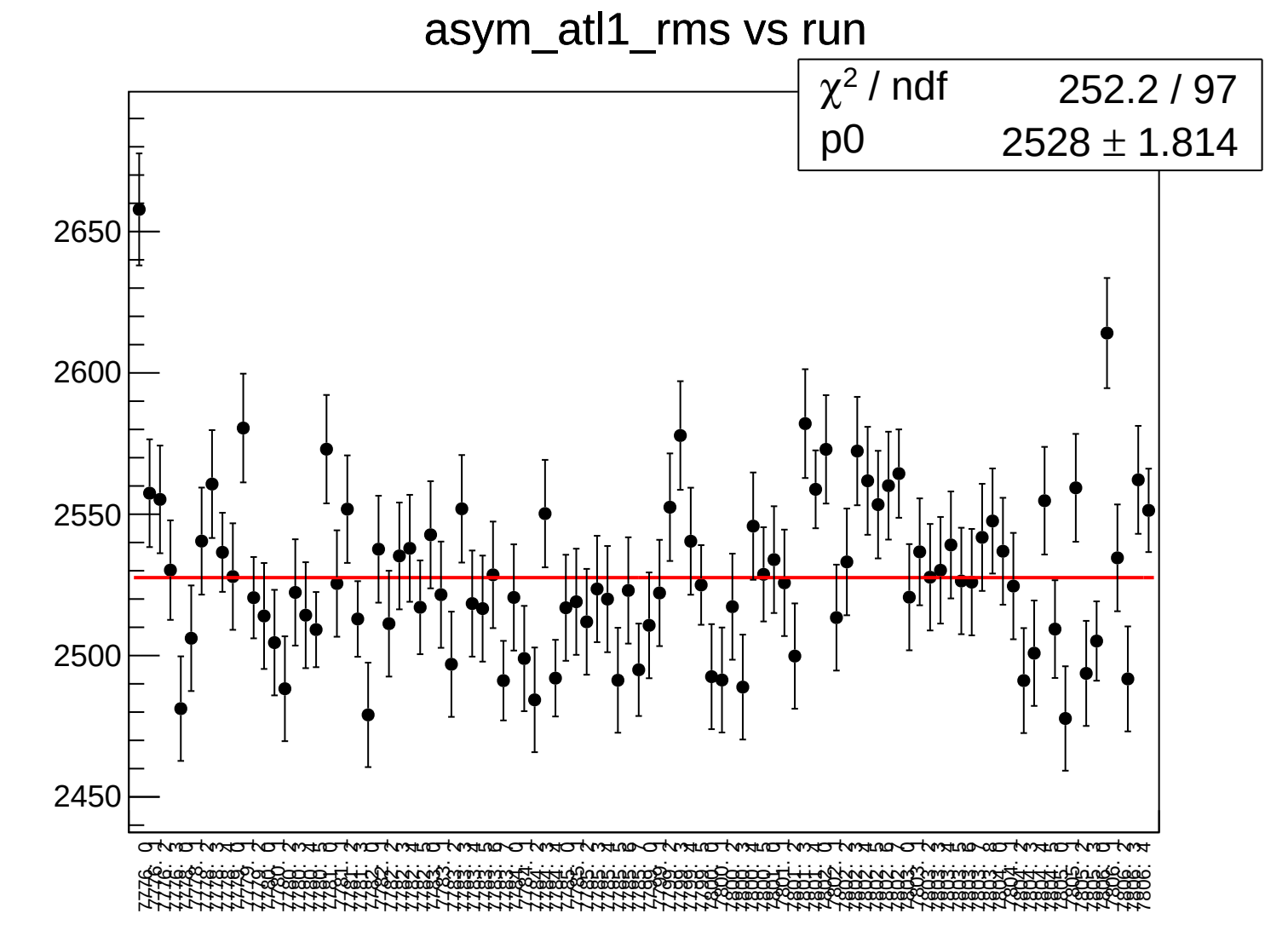

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 70.57 / 97
p0 447.8 ± 881.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 6021
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

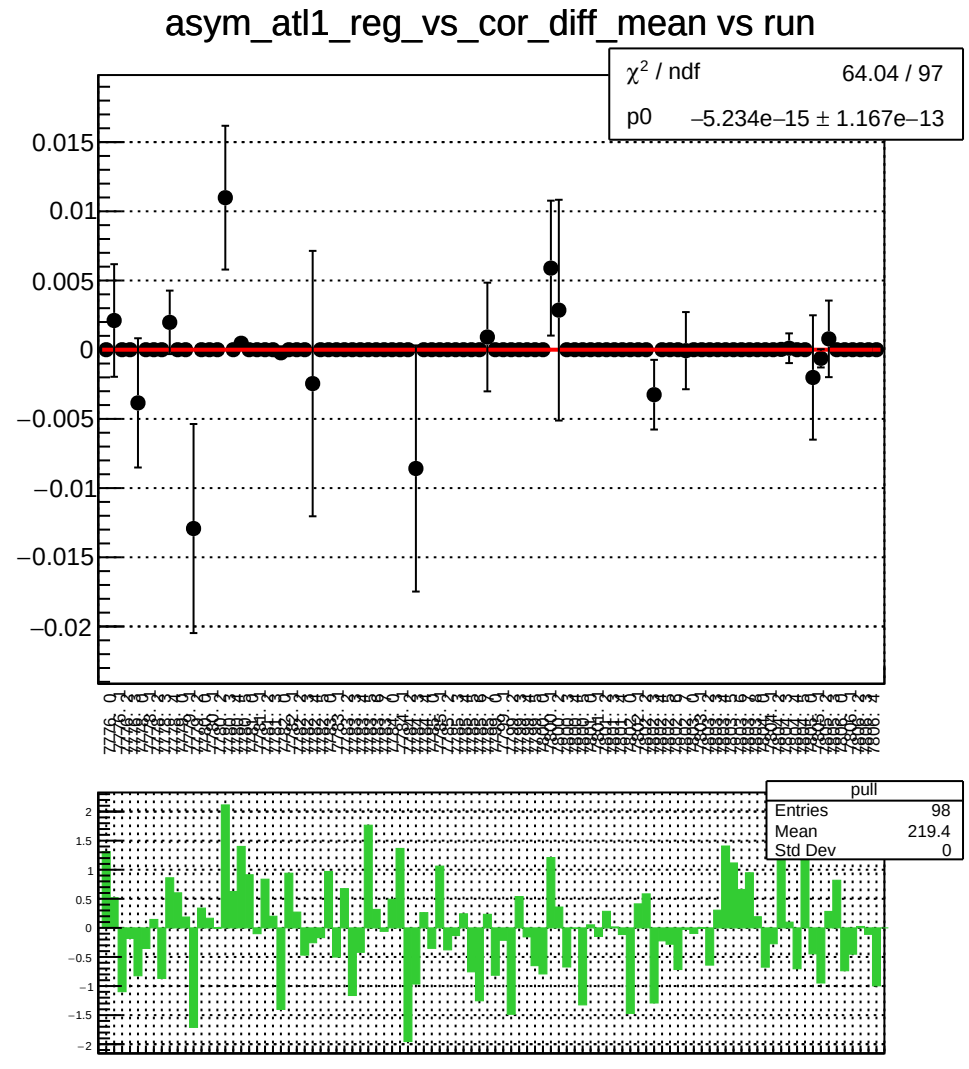

pull1D
Entries 98
Mean 0.0006223
Std Dev 0.8486
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

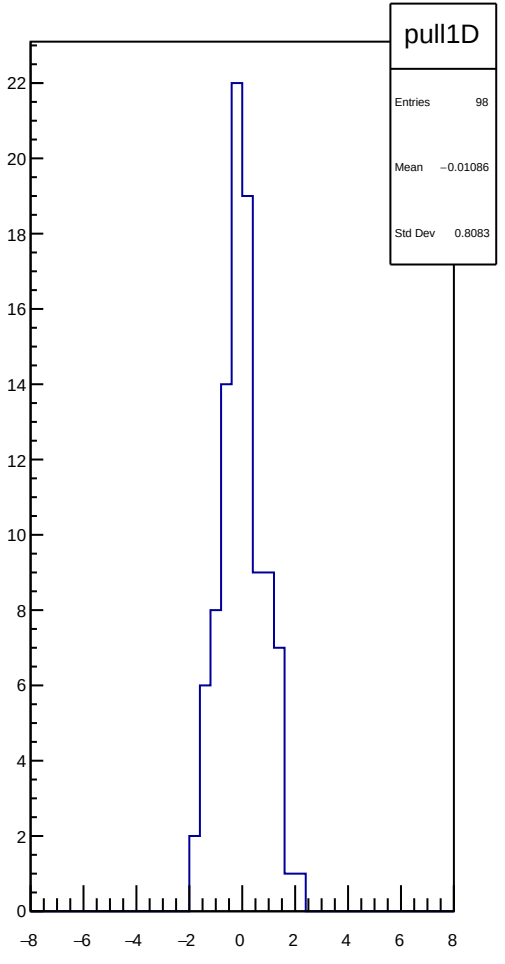

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 5154 / 97
p0 867.7 ± 0.6234
1050
1000
950
900
850
800

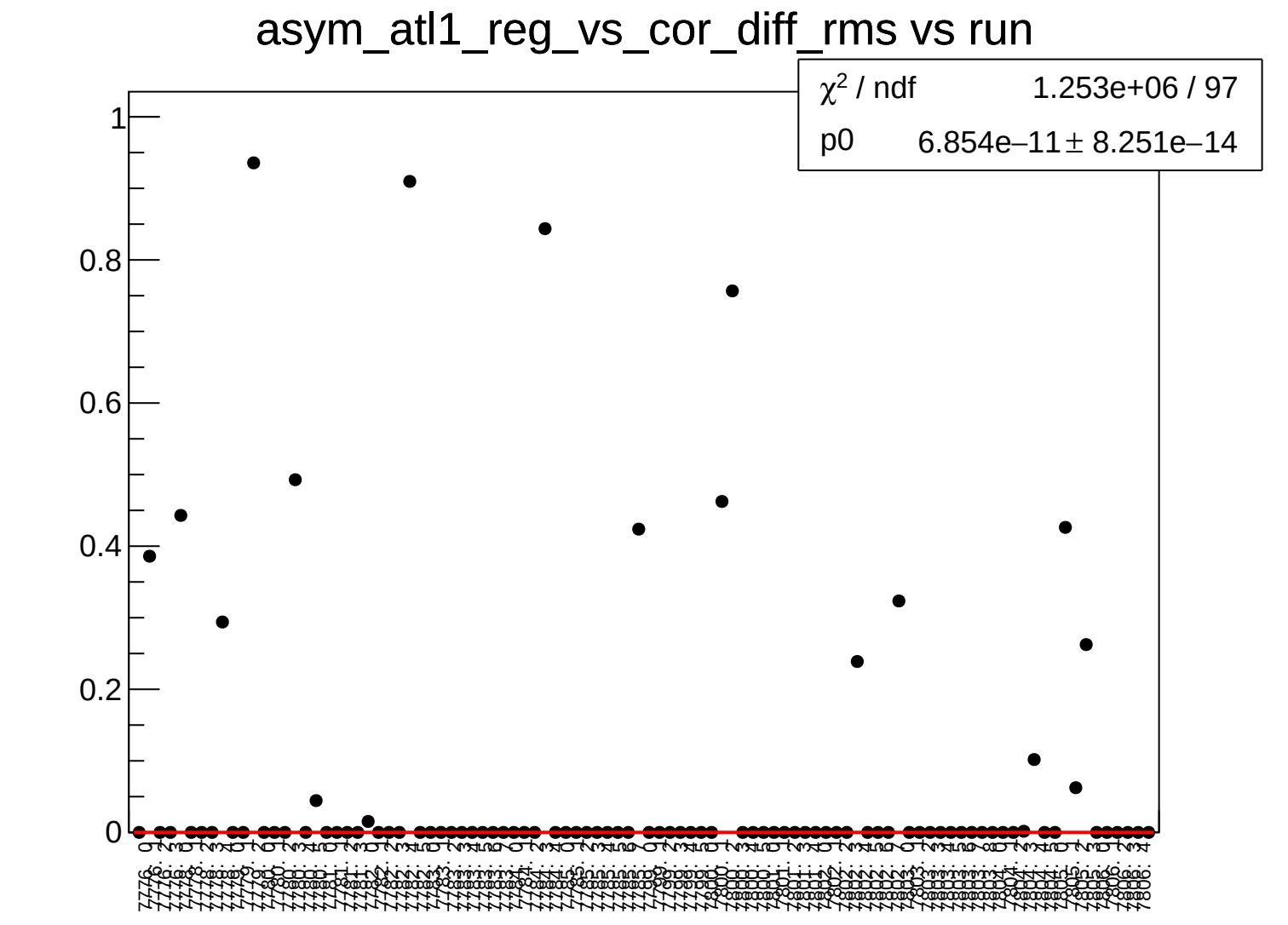

asym_atl1_mean vs run
χ² / ndf 86.3 / 97
p0 1476 ± 2565
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −265.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

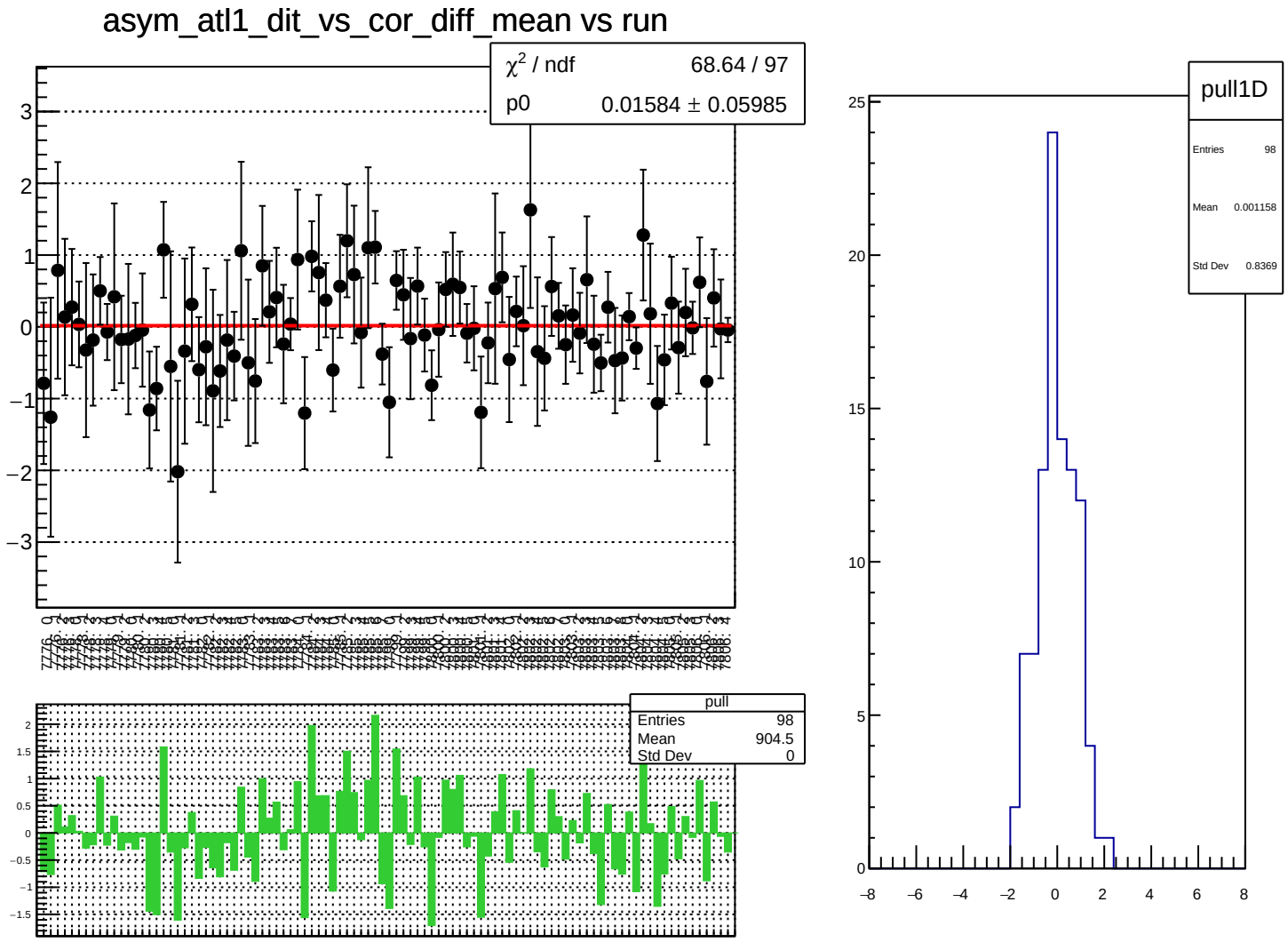

pull1D
Entries 98
Mean 0.00324
Std Dev 0.9384
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

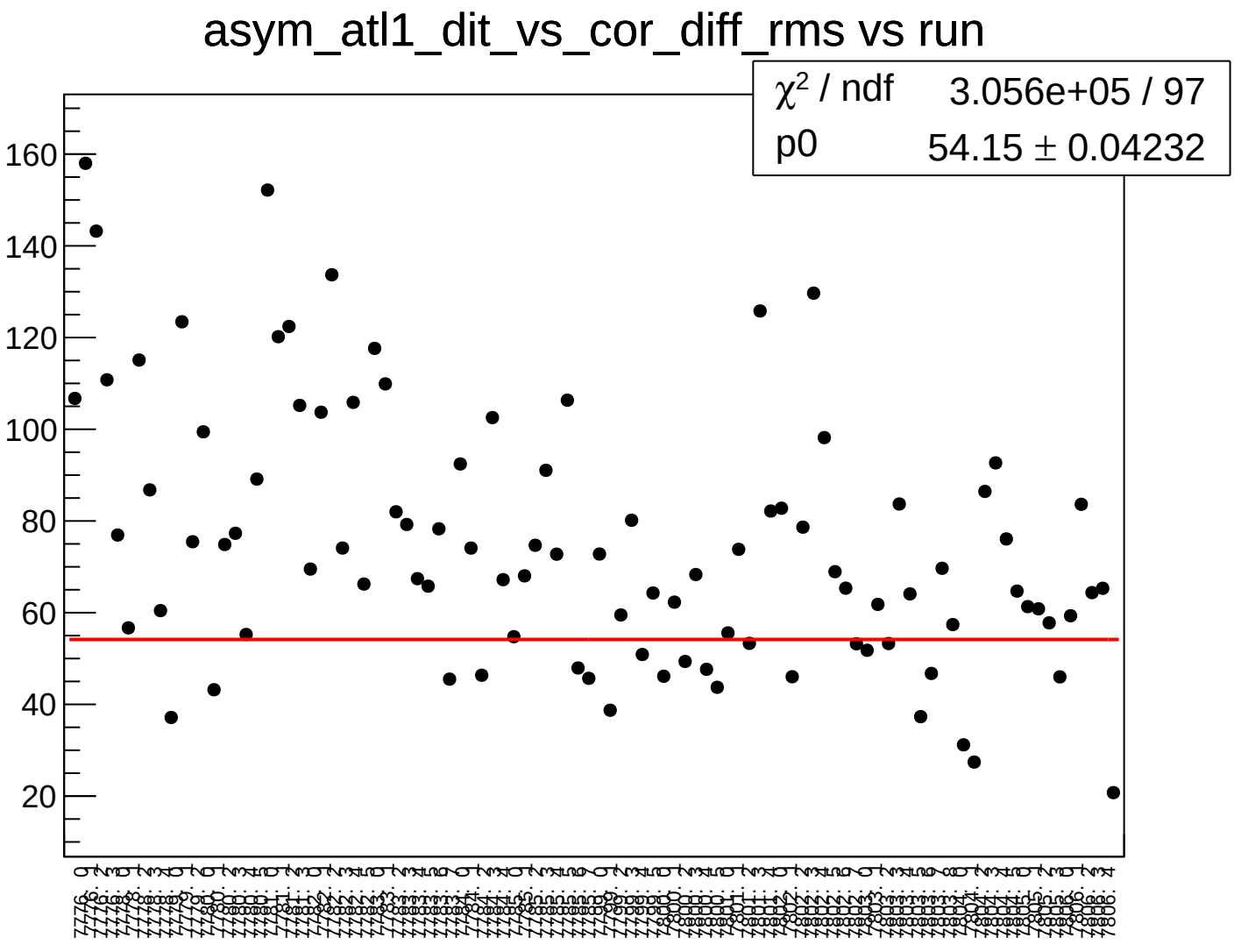

asym_atl1_rms vs run
χ² / ndf 252.2 / 97
p0 2528 ± 1.814
2650
2600
2550
2500
2450

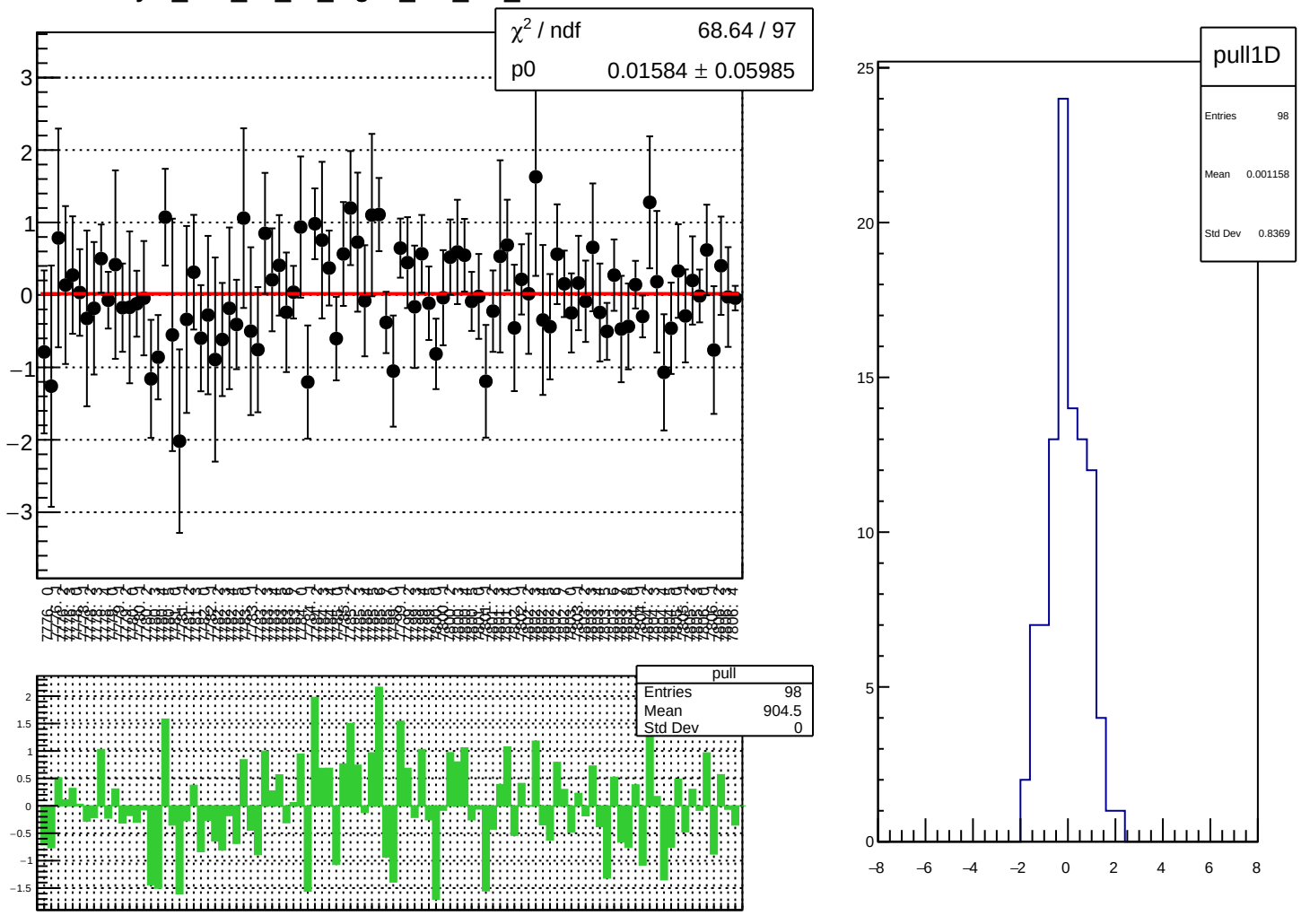

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 64.04 / 97
p0 −5.234e−15 ± 1.167e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 98
Mean 219.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

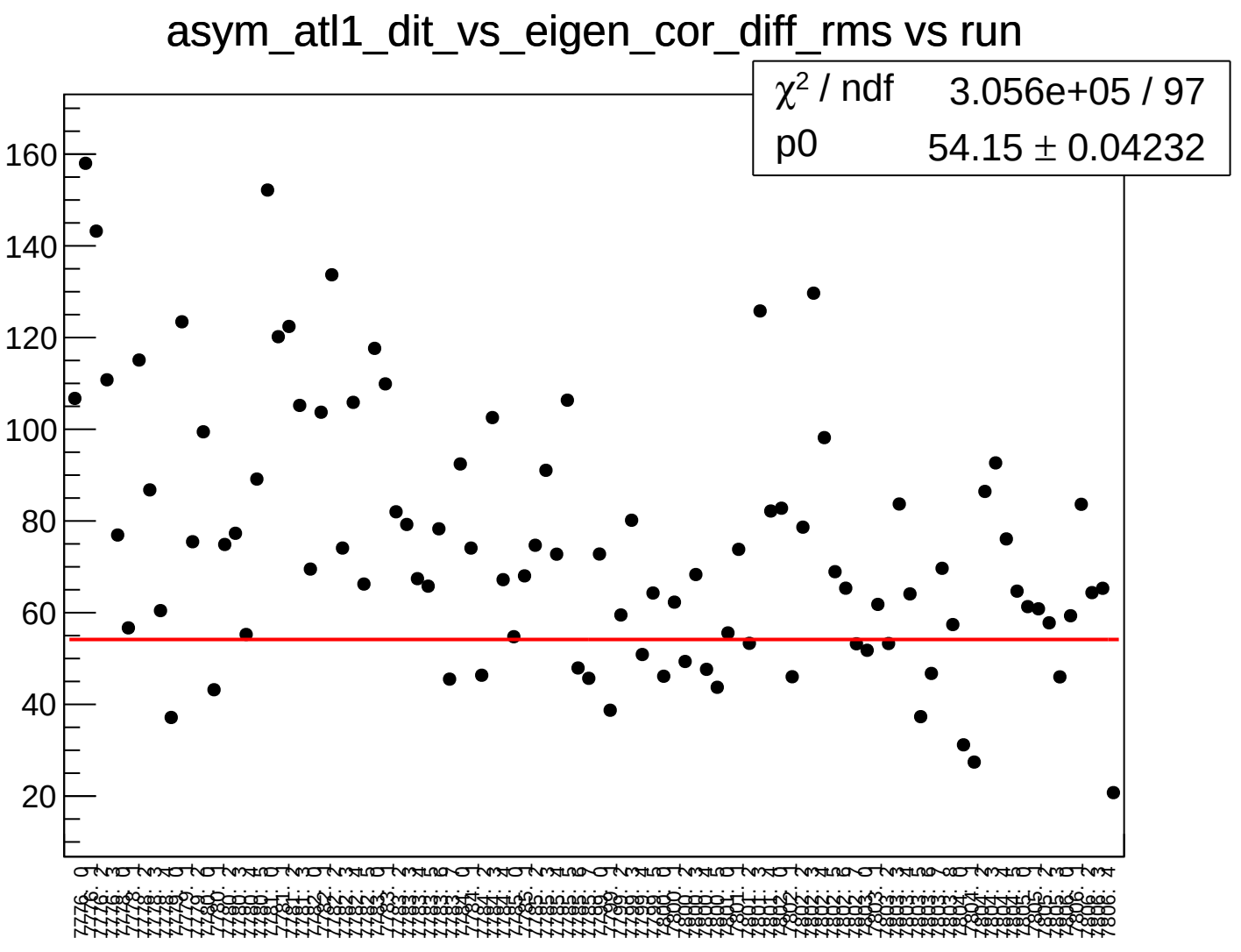

pull1D
Entries 98
Mean −0.01086
Std Dev 0.8083
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

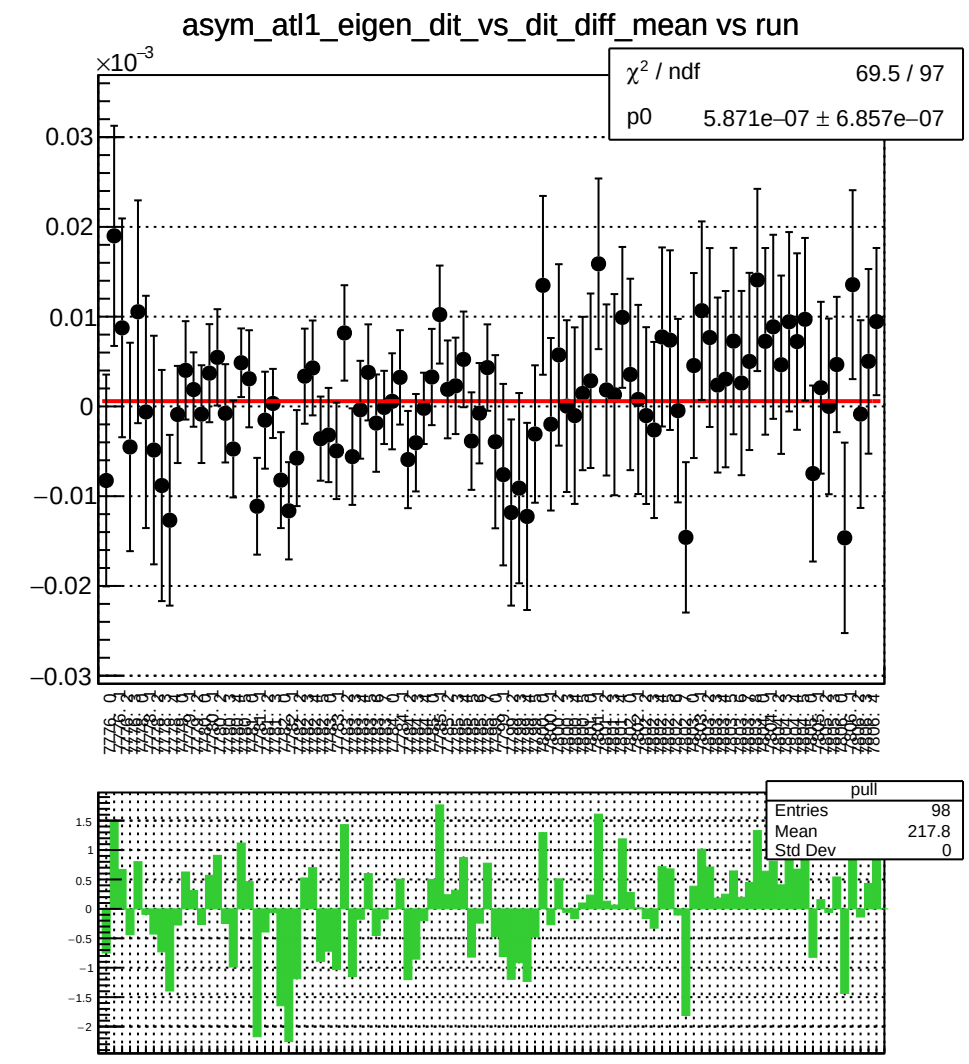

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.253e+06 / 97
p0 6.854e−11 ± 8.251e−14
1
0.8
0.6
0.4
0.2
0

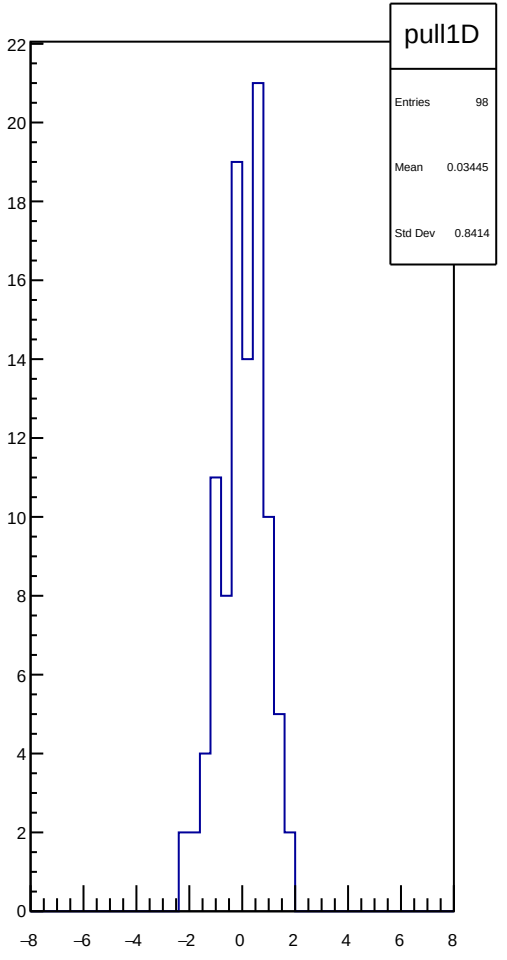

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 68.64 / 97
p0 0.01584 ± 0.05985
pull
Entries 98
Mean 904.5
Std Dev 0
pull1D
Entries 98
Mean 0.001158
Std Dev 0.8369

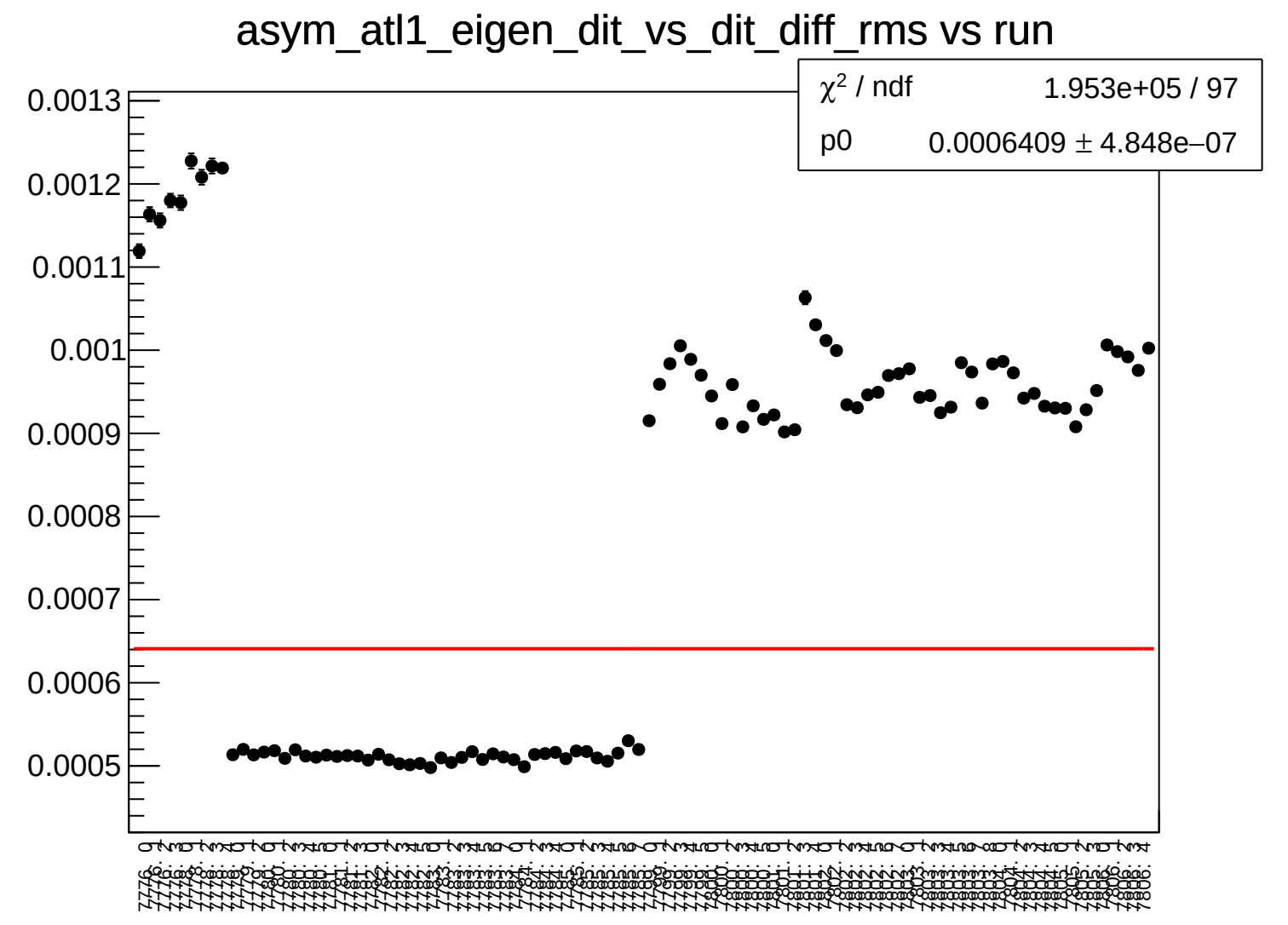

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.056e+05 / 97
p0 54.15 ± 0.04232
160
140
120
100
80
60
40
20

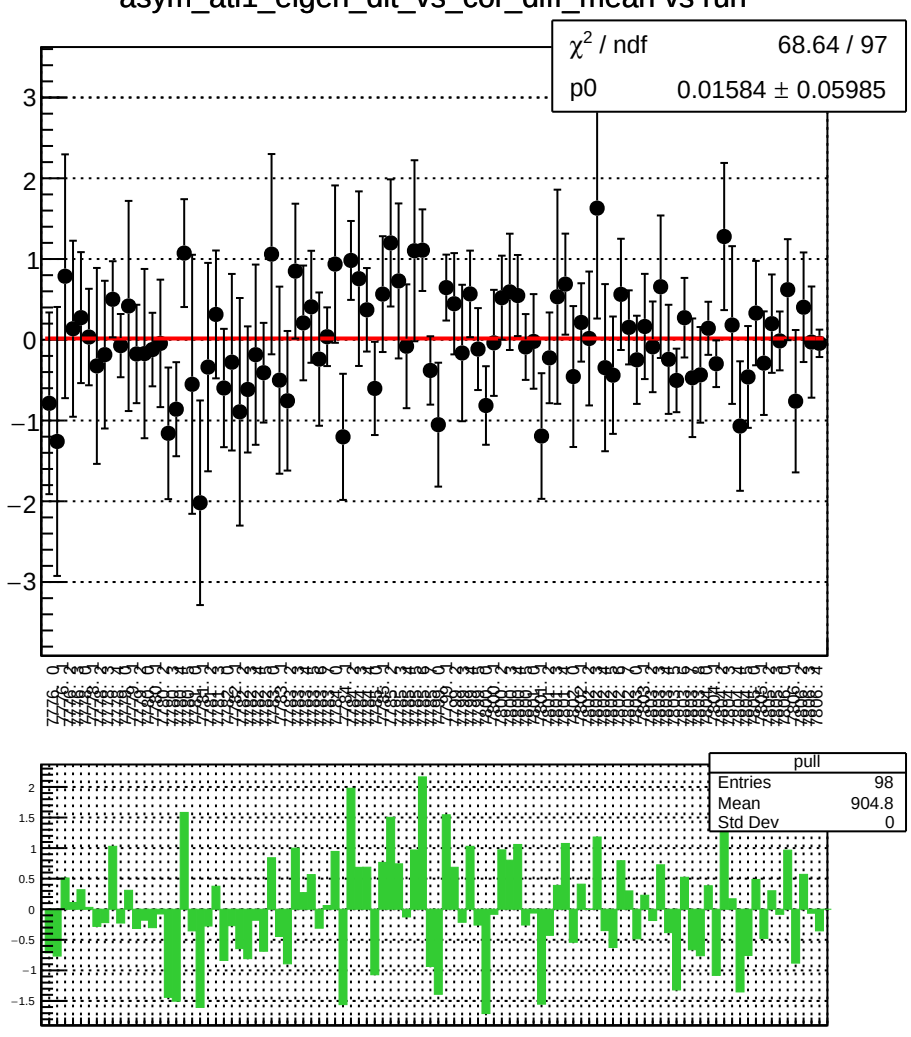

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.64 / 97
p0 0.01584 ± 0.05985
pull
Entries 98
Mean 904.5
Std Dev 0
pull1D
Entries 98
Mean 0.001158
Std Dev 0.8369

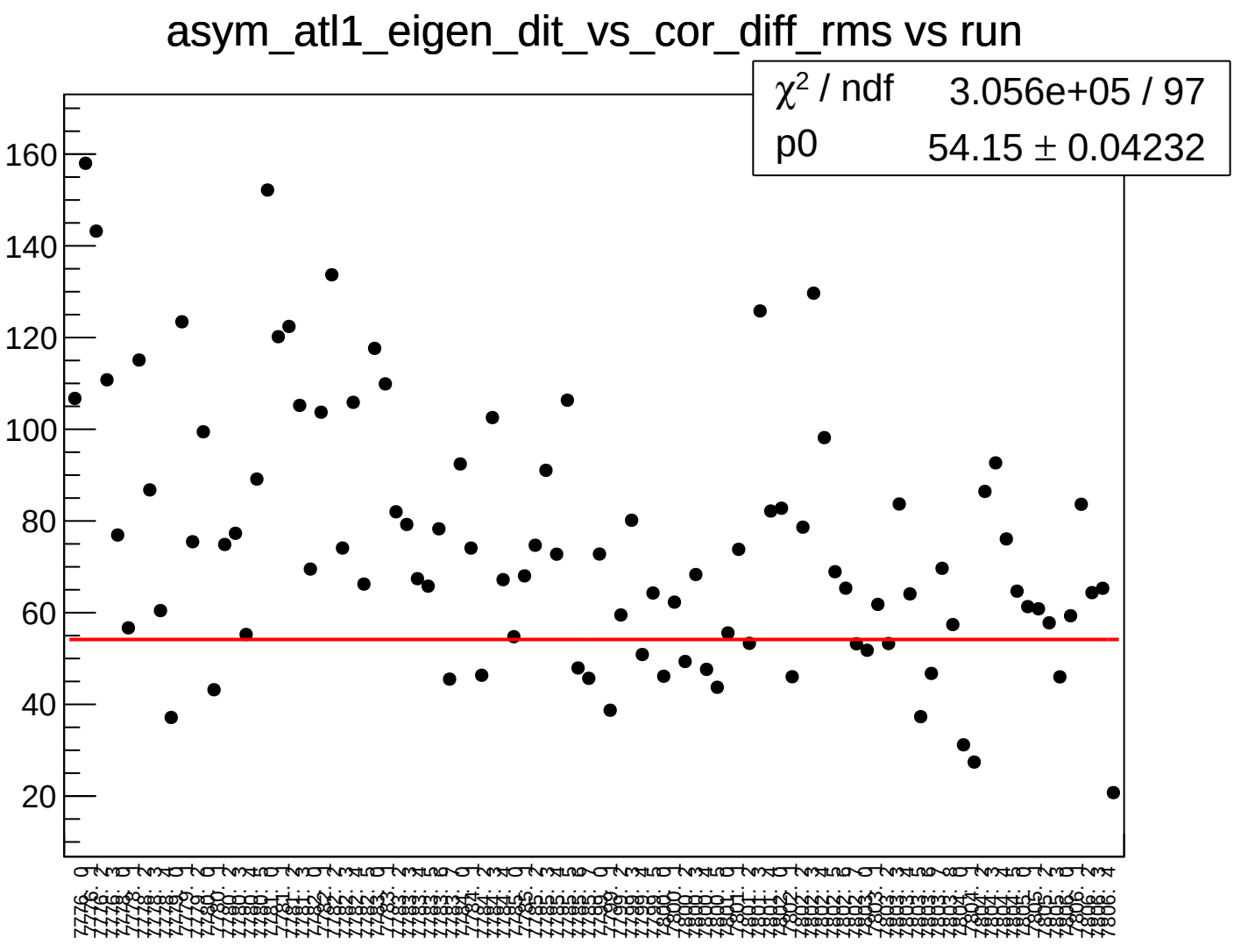

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.056e+05 / 97
p0 54.15 ± 0.04232
160
140
120
100
80
60
40
20

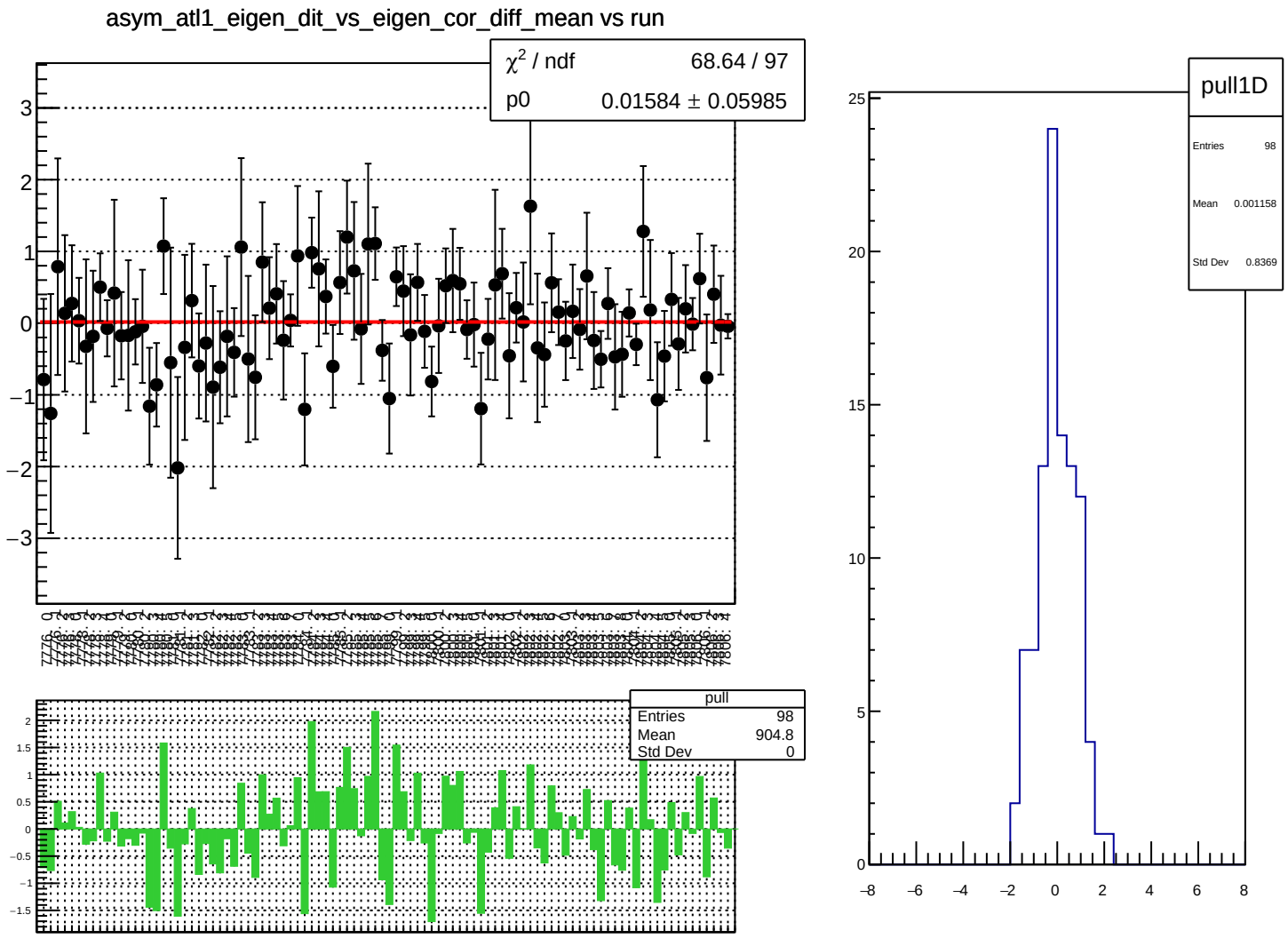

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.5 / 97
p0 5.871e−07 ± 6.857e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 98
Mean 217.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

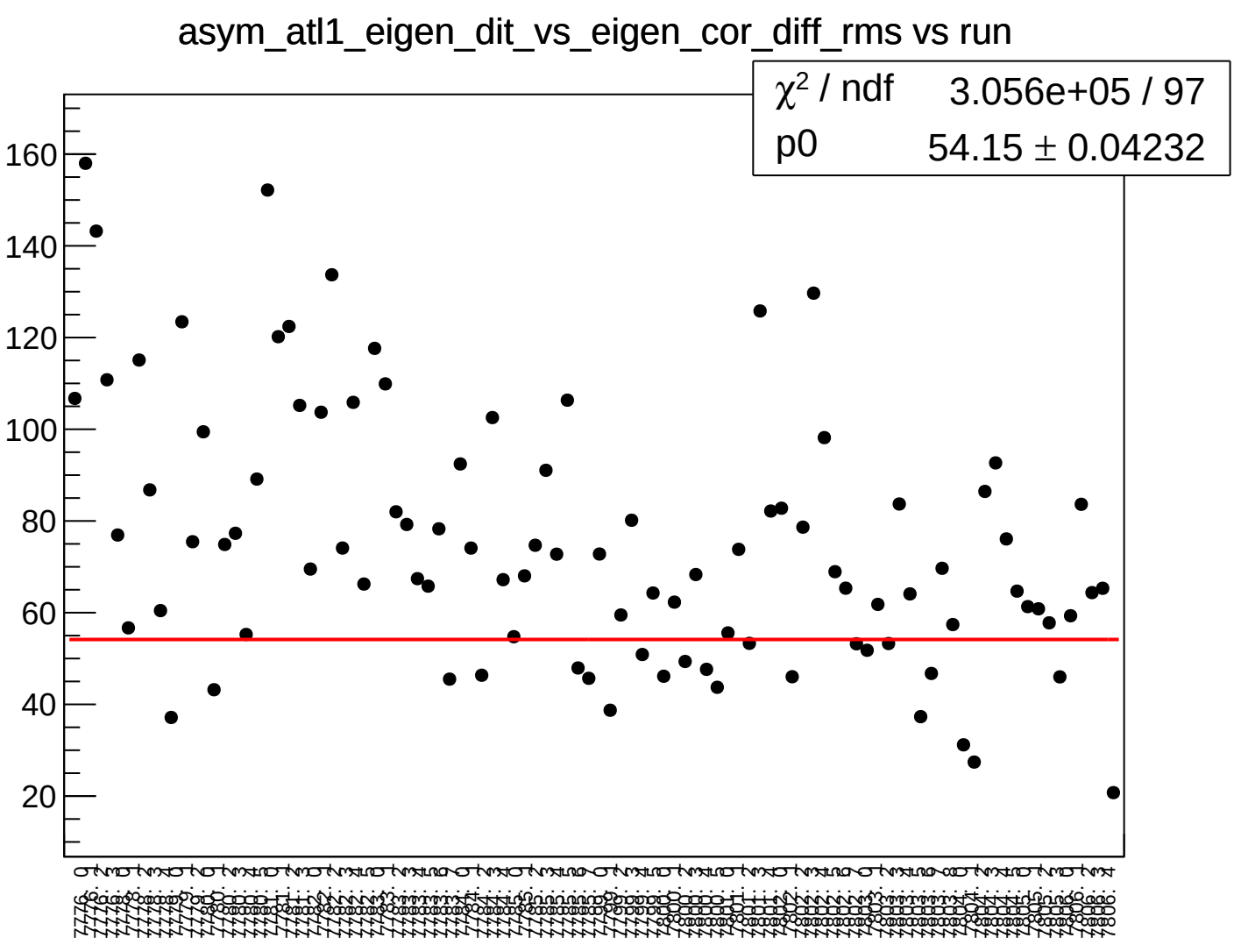

pull1D
Entries 98
Mean 0.03445
Std Dev 0.8414
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

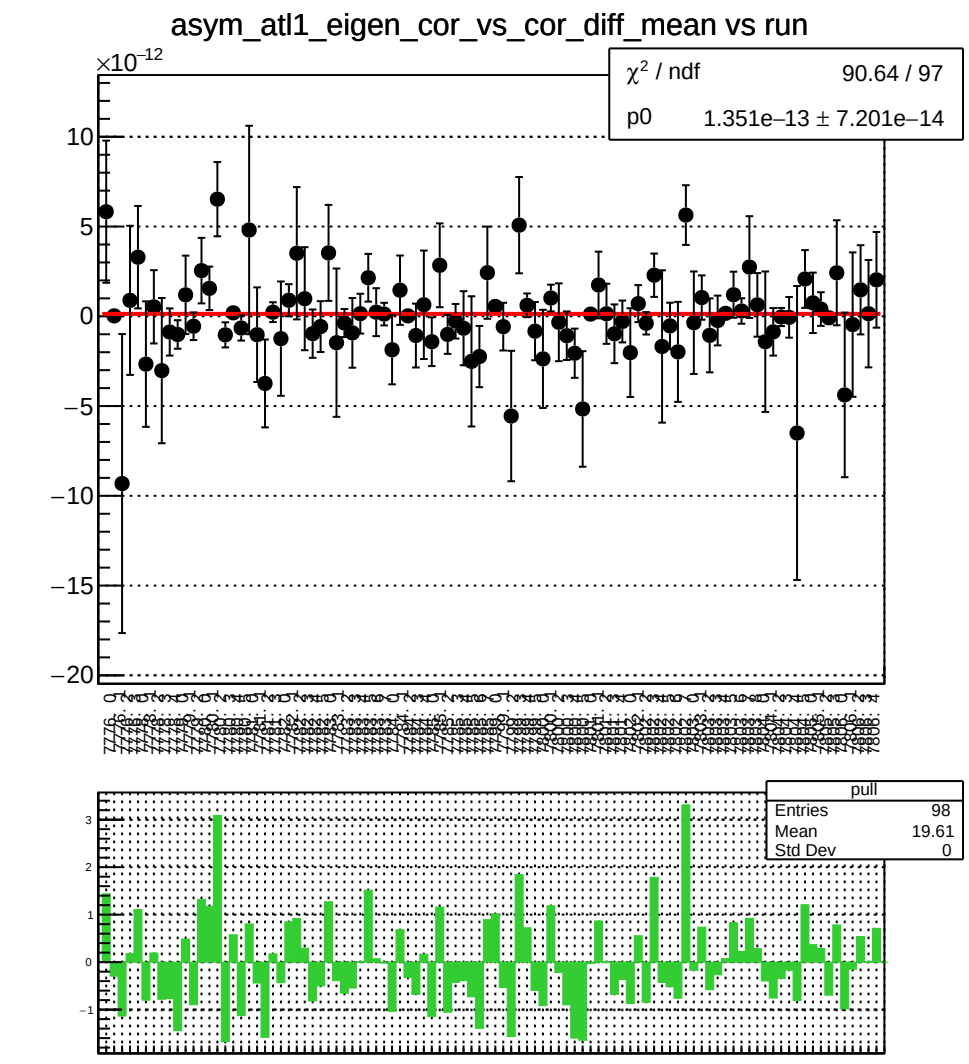

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.953e+05 / 97
p0 0.0006409 ± 4.848e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

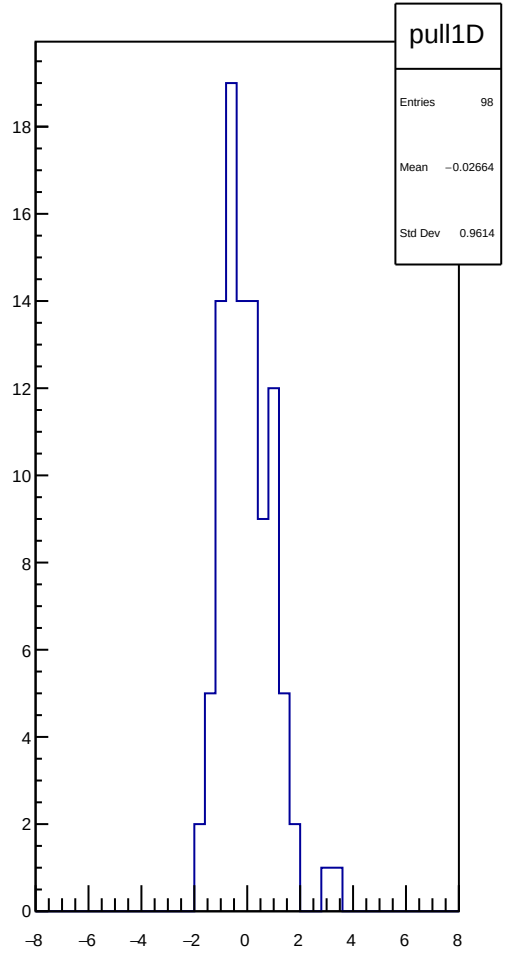

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.64 / 97
p0 0.01584 ± 0.05985
pull
Entries 98
Mean 904.8
Std Dev 0
pull1D
Entries 98
Mean 0.001158
Std Dev 0.8369

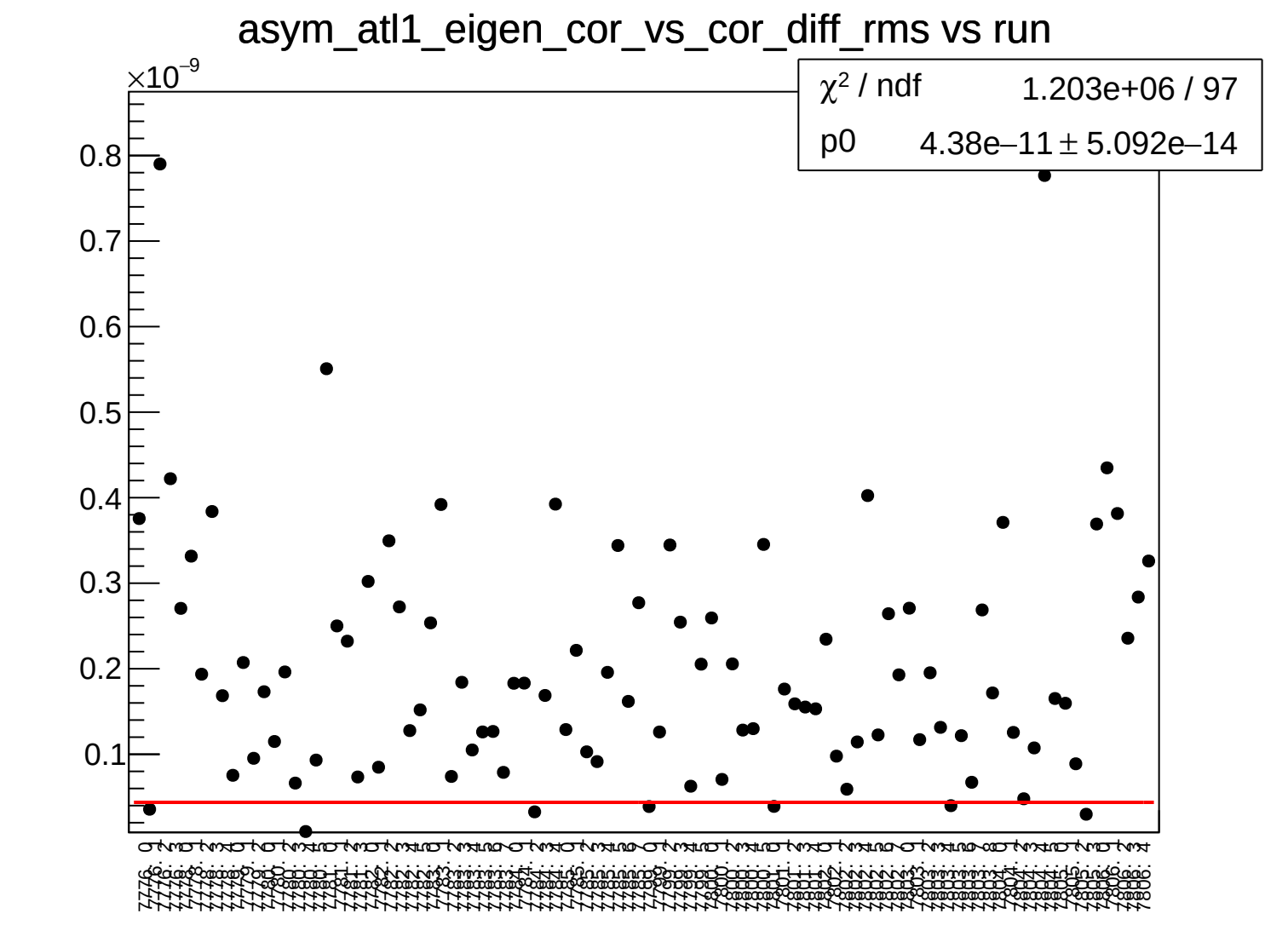

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.056e+05 / 97
p0 54.15 ± 0.04232
160
140
120
100
80
60
40
20

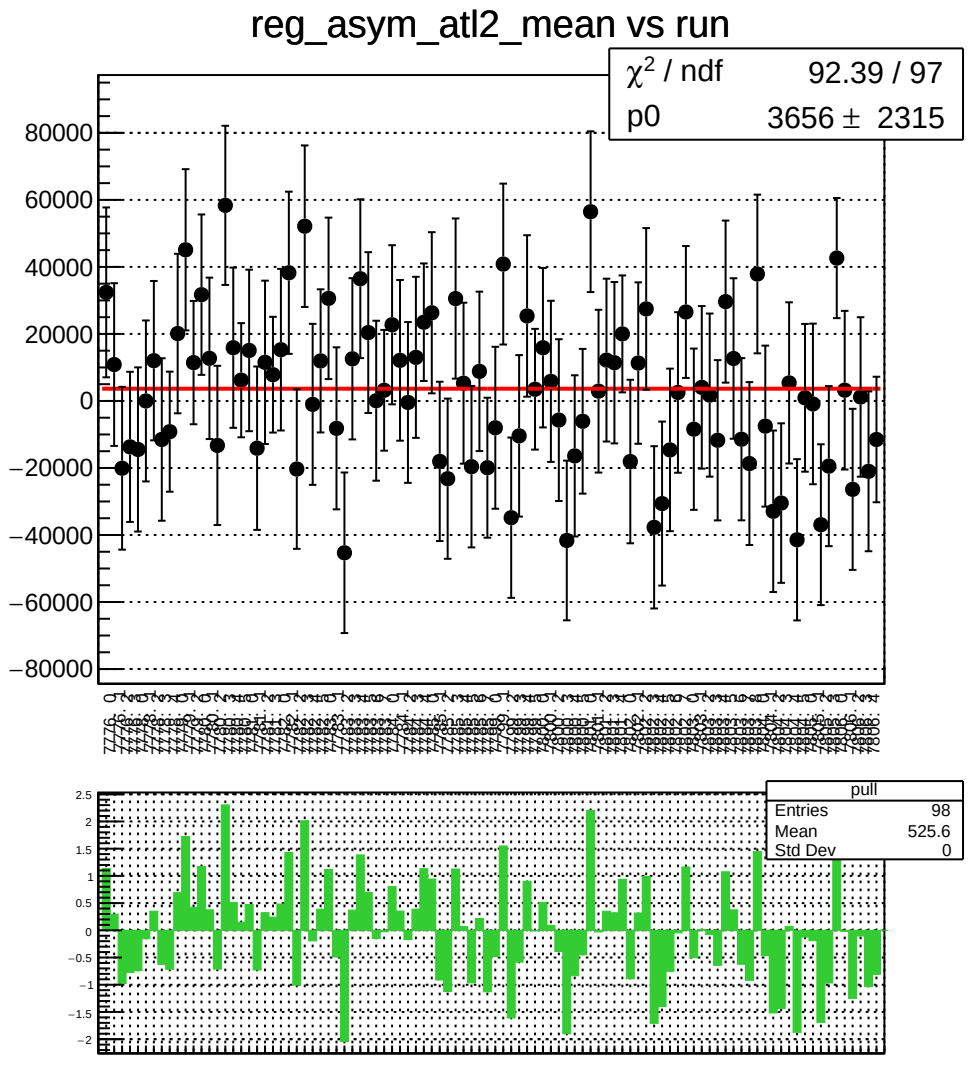

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.64 / 97
p0 0.01584 ± 0.05985
pull
Entries 98
Mean 904.8
Std Dev 0
pull1D
Entries 98
Mean 0.001158
Std Dev 0.8369

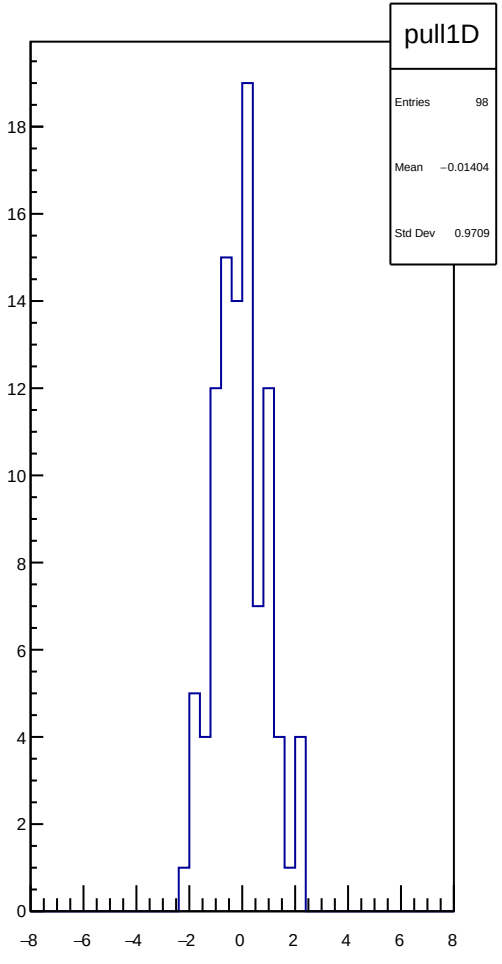

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.056e+05 / 97
p0 54.15 ± 0.04232
160
140
120
100
80
60
40
20

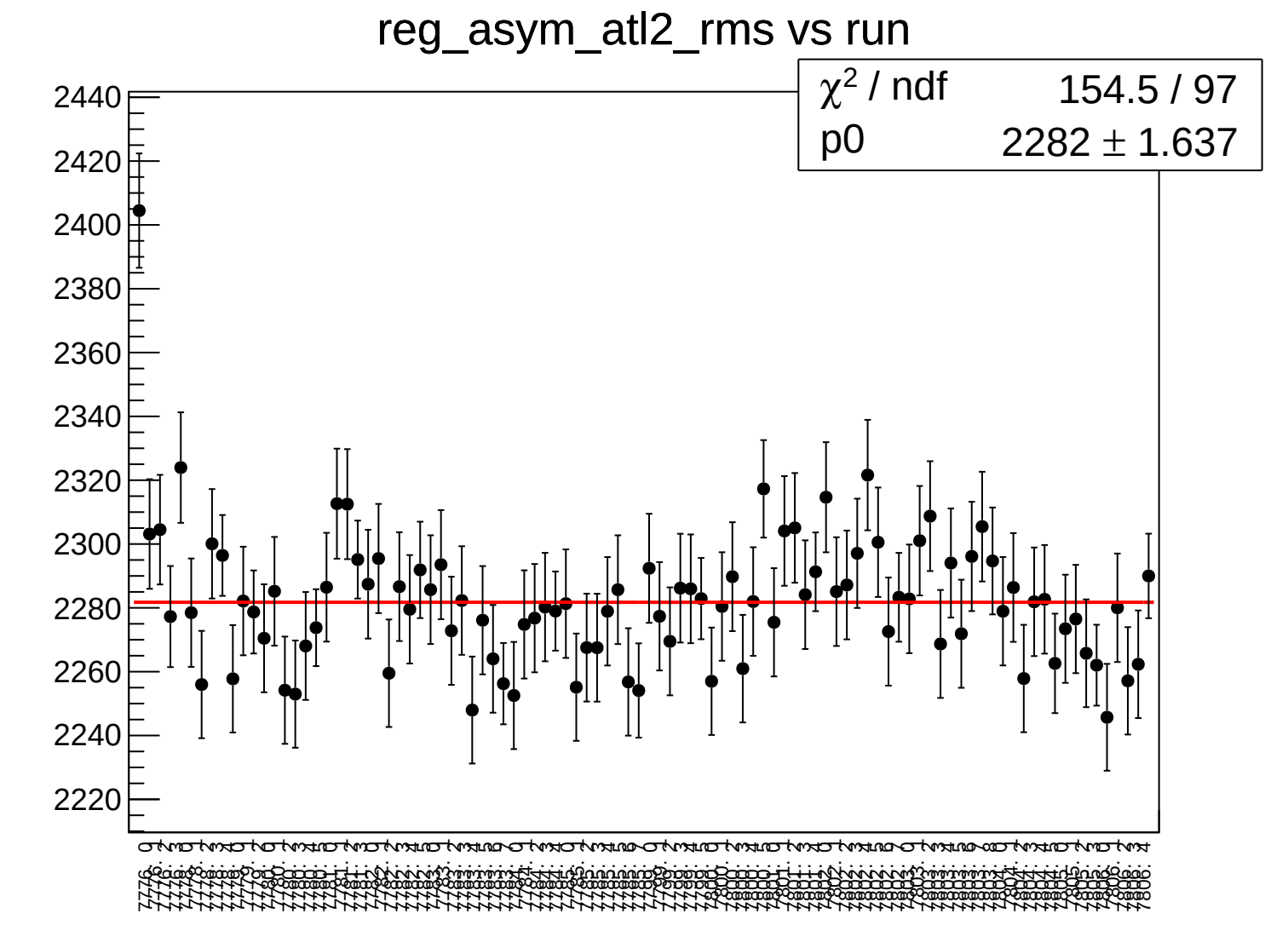

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.64 / 97
p0 1.351e−13 ± 7.201e−14
10
5
0
−5
−10
−15
−20
pull
Entries 98
Mean 19.61
Std Dev 0
3
2
1
0
−1

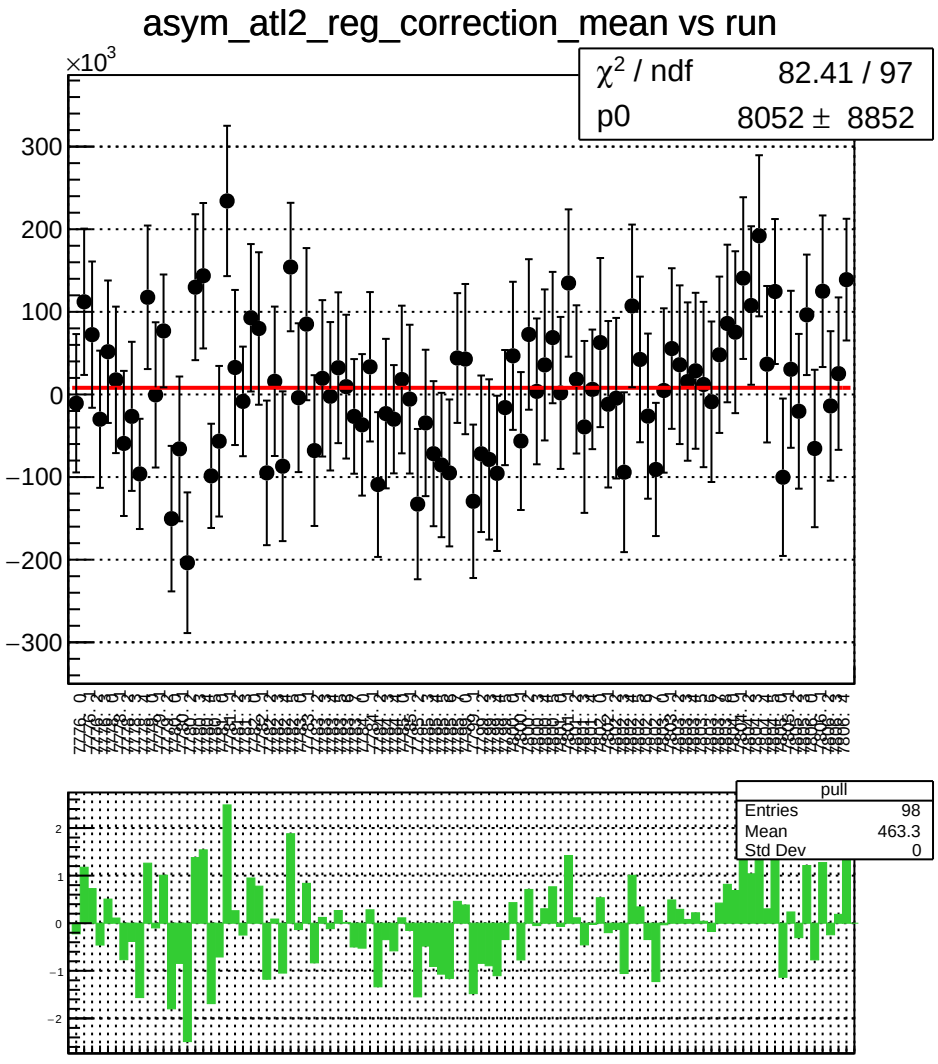

pull1D
Entries 98
Mean −0.02664
Std Dev 0.9614
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

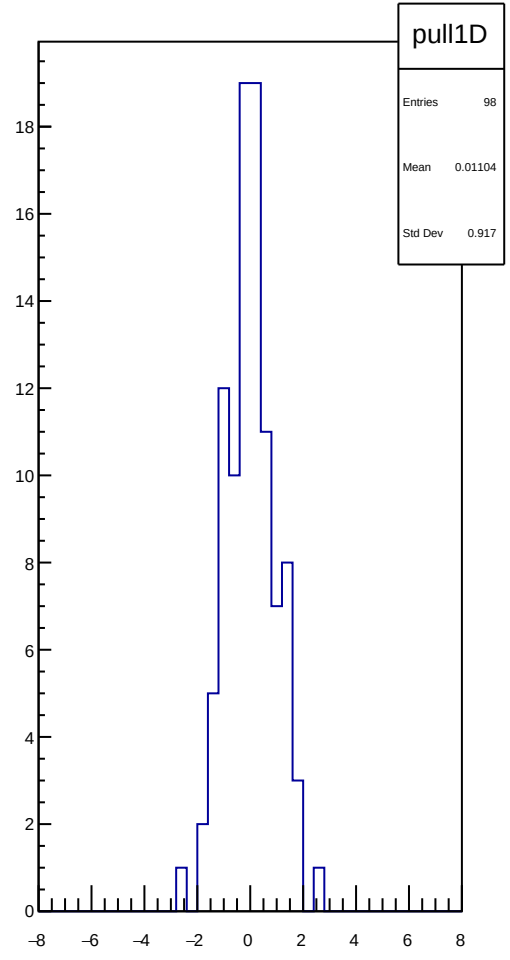

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.203e+06 / 97
p0 4.38e−11 ± 5.092e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

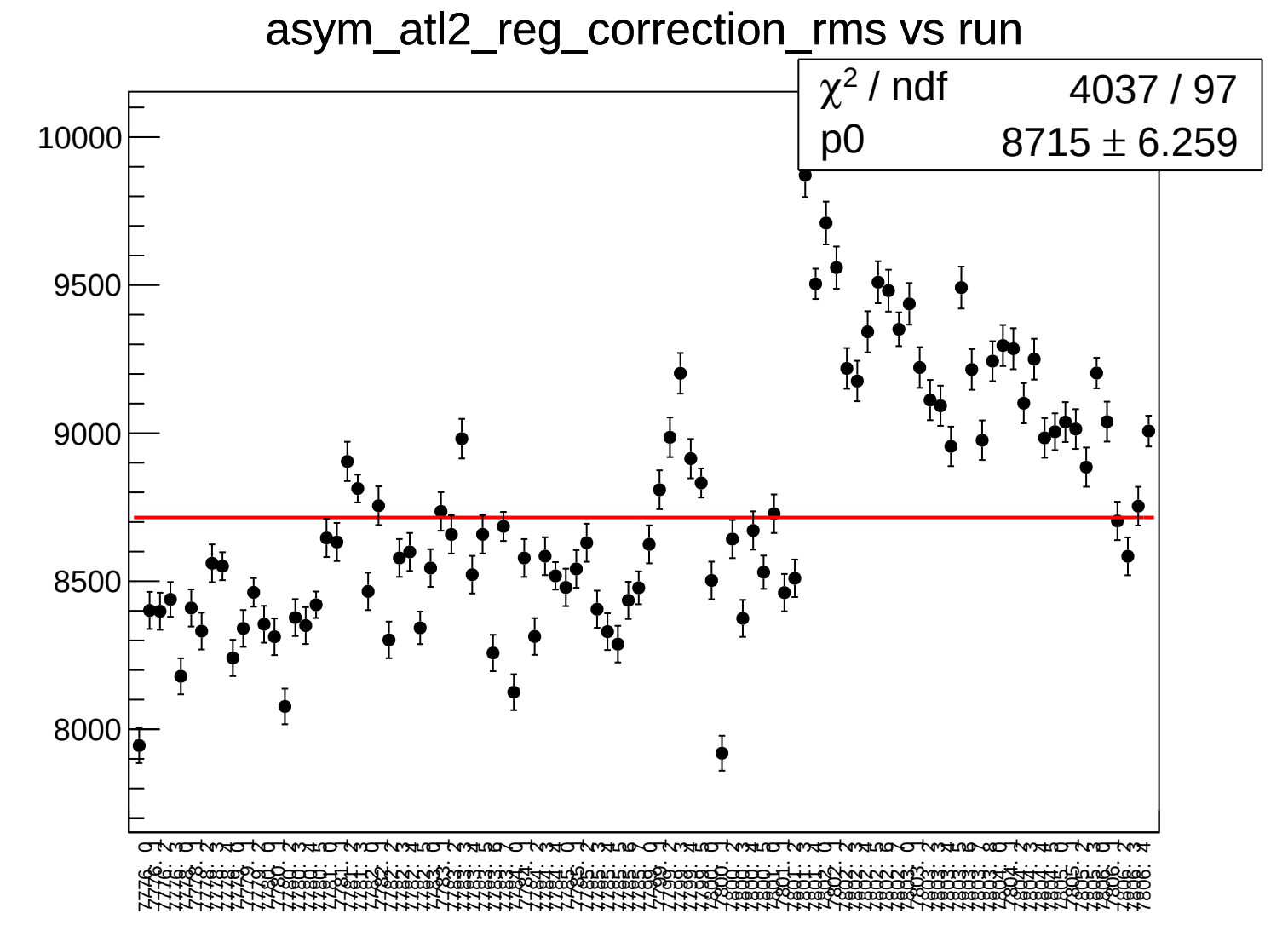

reg_asym_atl2_mean vs run
χ² / ndf 92.39 / 97
p0 3656 ± 2315
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 525.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

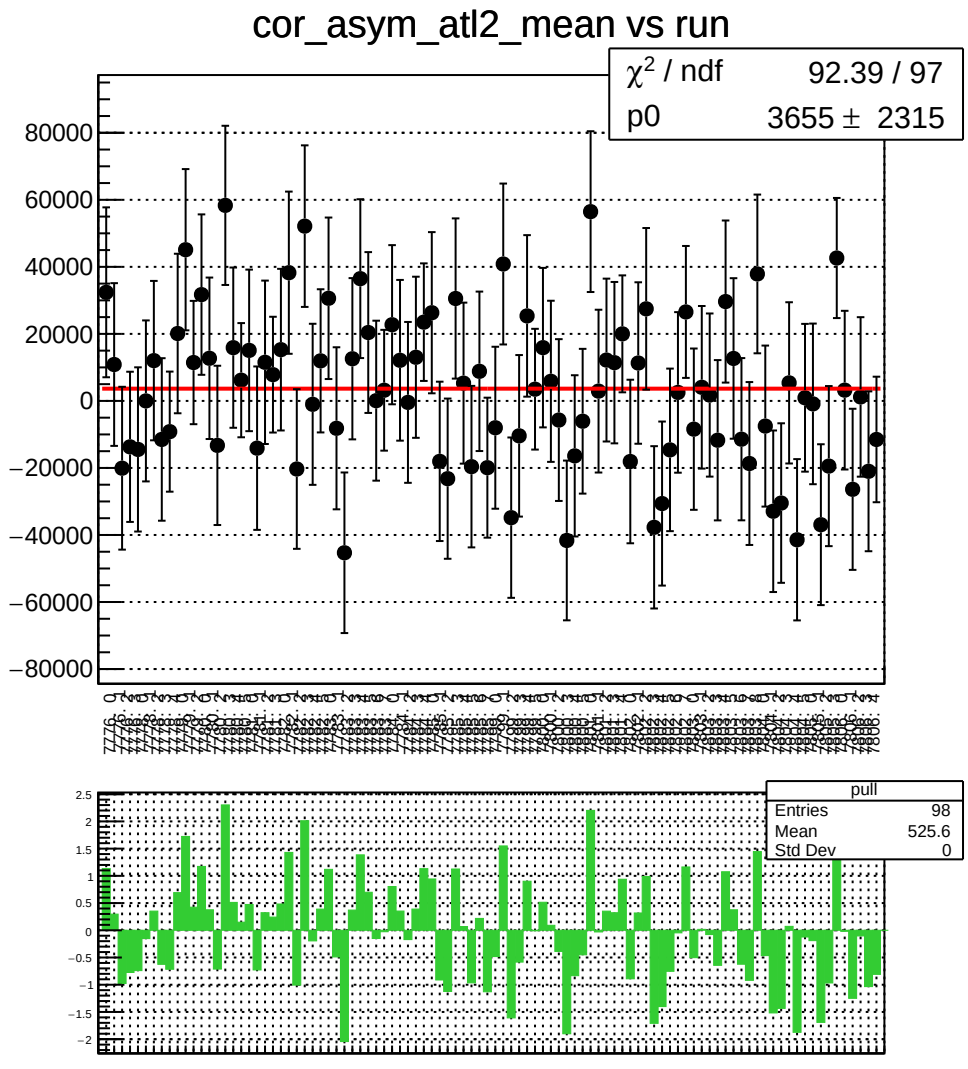

pull1D
Entries 98
Mean −0.01404
Std Dev 0.9709
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

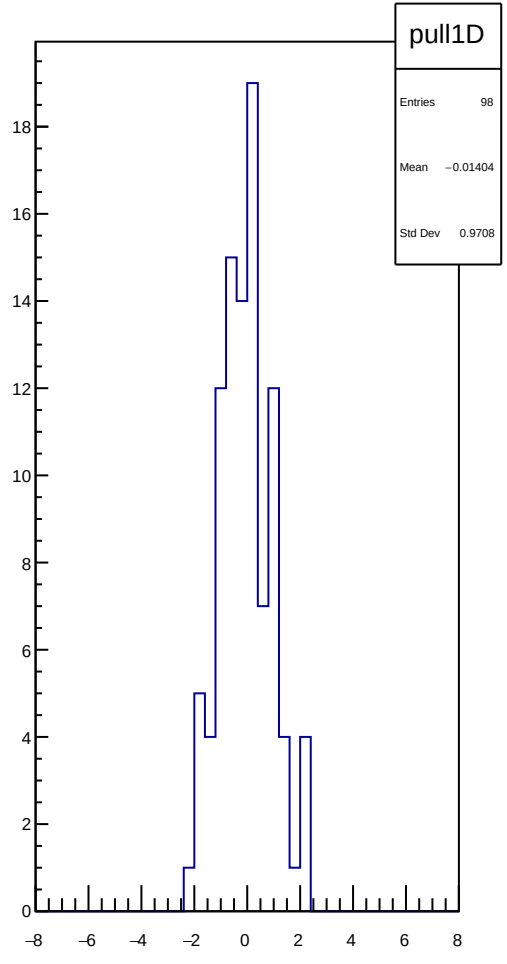

reg_asym_atl2_rms vs run
χ² / ndf 154.5 / 97
p0 2282 ± 1.637
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220

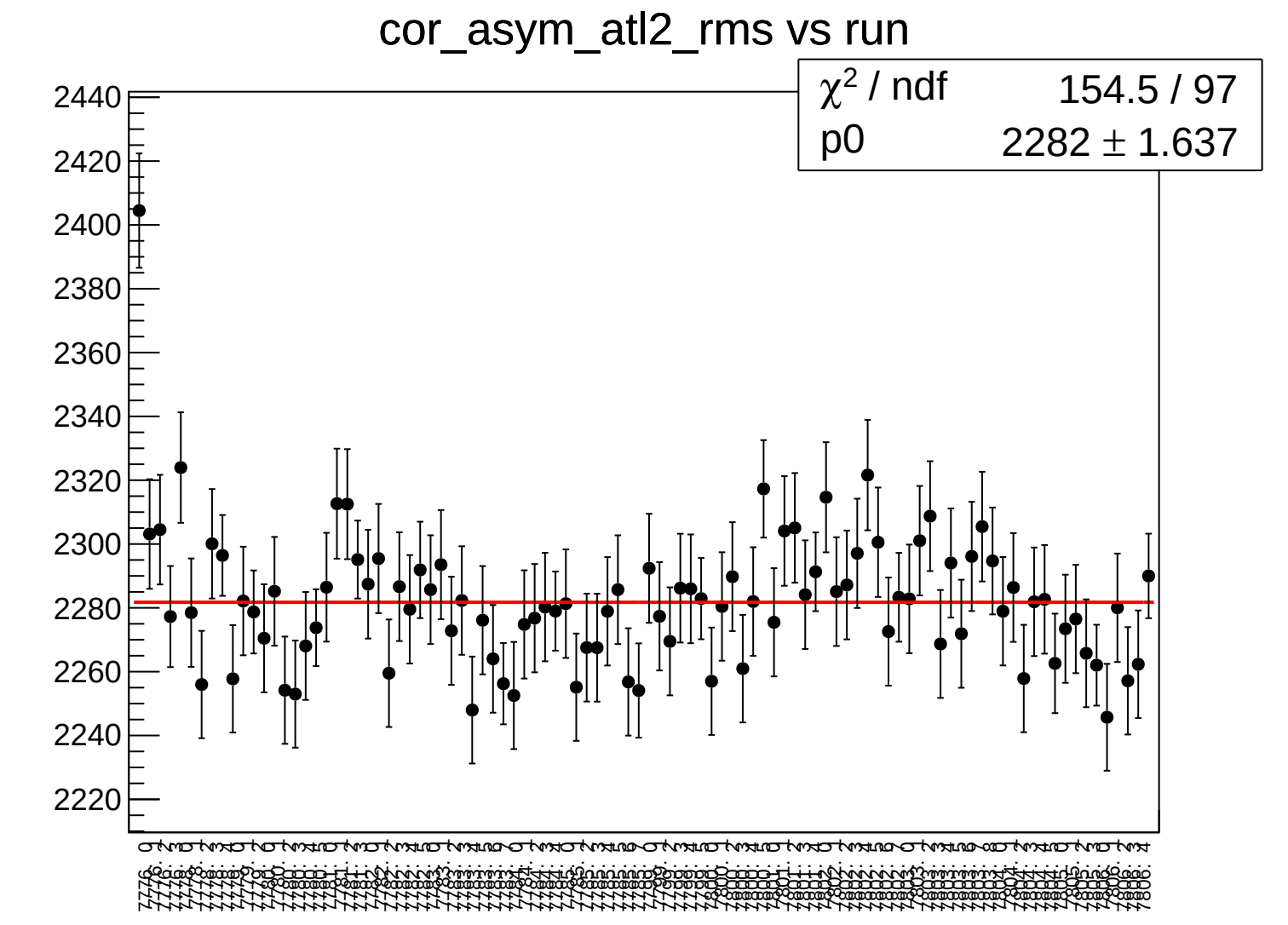

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 82.41 / 97
p0 8052 ± 8852
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 463.3
Std Dev 0
2
1
0
−1
−2

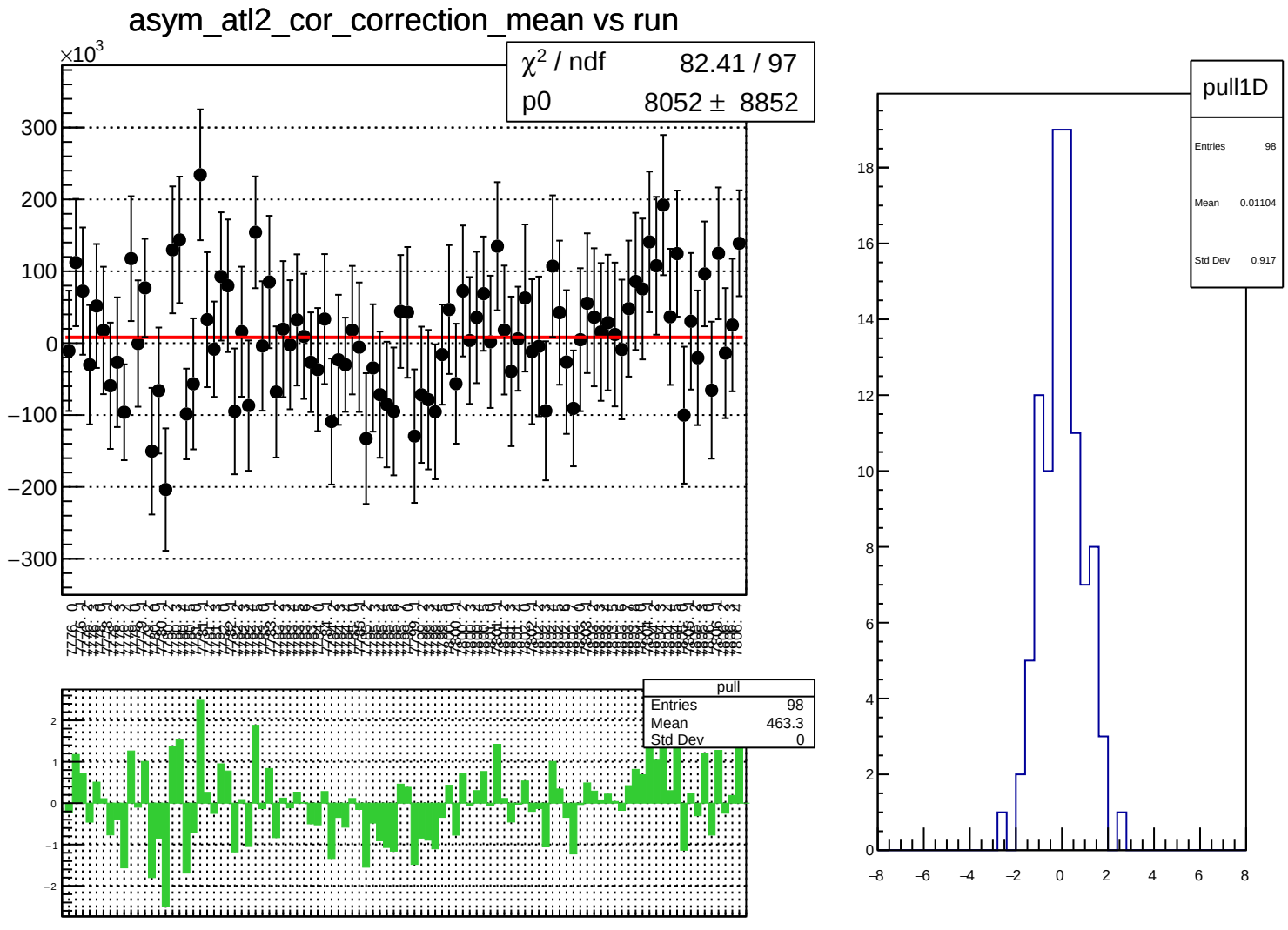

pull1D
Entries 98
Mean 0.01104
Std Dev 0.917
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

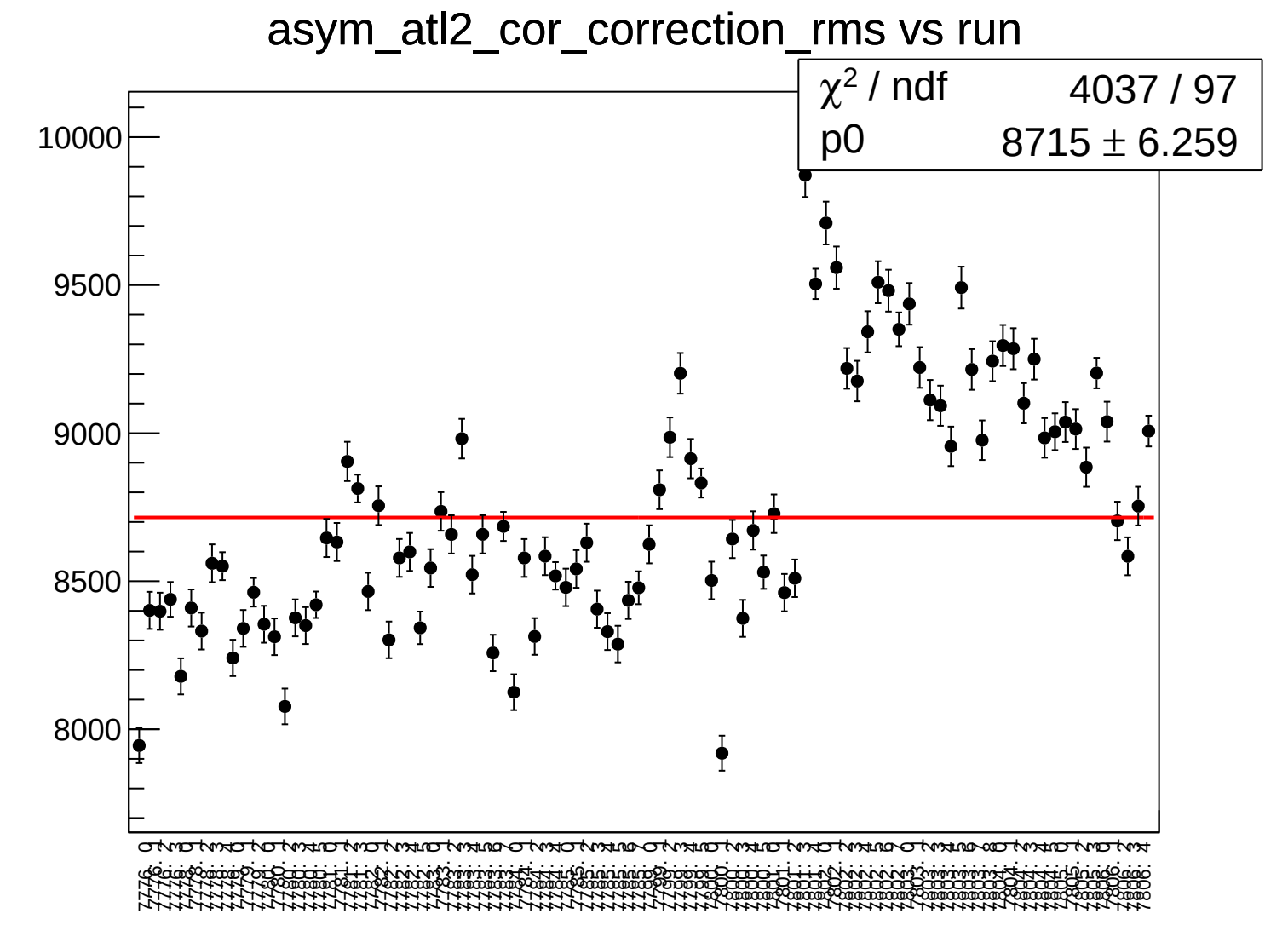

asym_atl2_reg_correction_rms vs run
χ² / ndf 4037 / 97
p0 8715 ± 6.259
10000
9500
9000
8500
8000

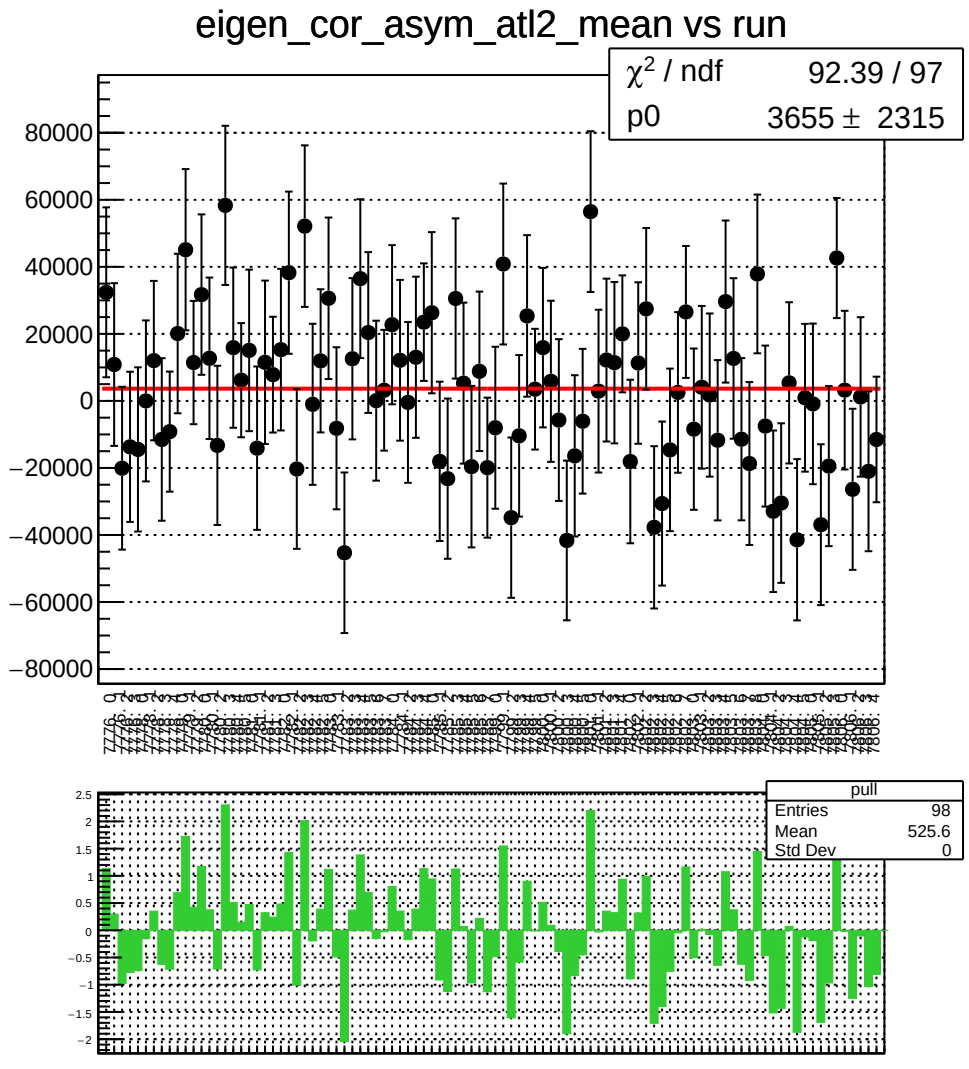

cor_asym_atl2_mean vs run
χ² / ndf 92.39 / 97
p0 3655 ± 2315
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 525.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

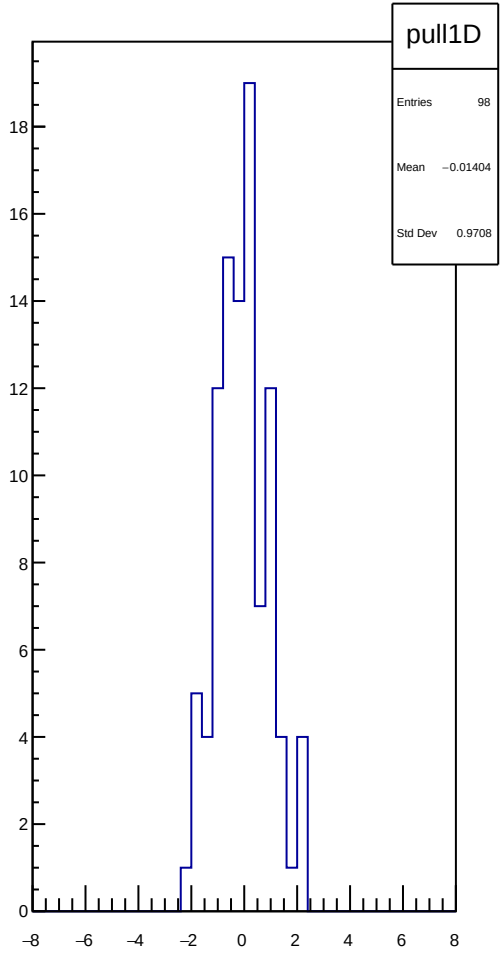

pull1D
Entries 98
Mean −0.01404
Std Dev 0.9708
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

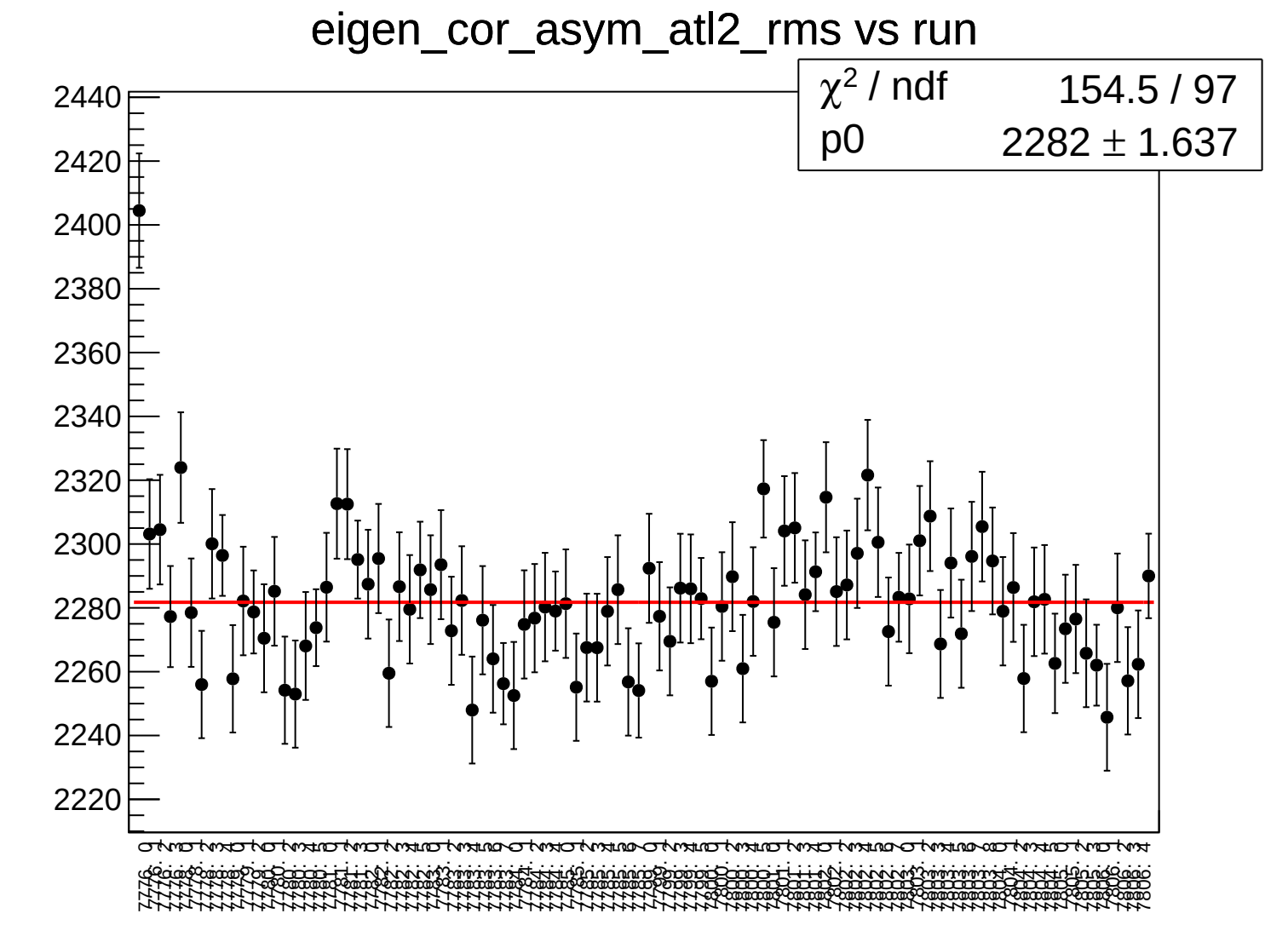

cor_asym_atl2_rms vs run
χ^2 / ndf 154.5 / 97
p0 2282 ± 1.637
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220

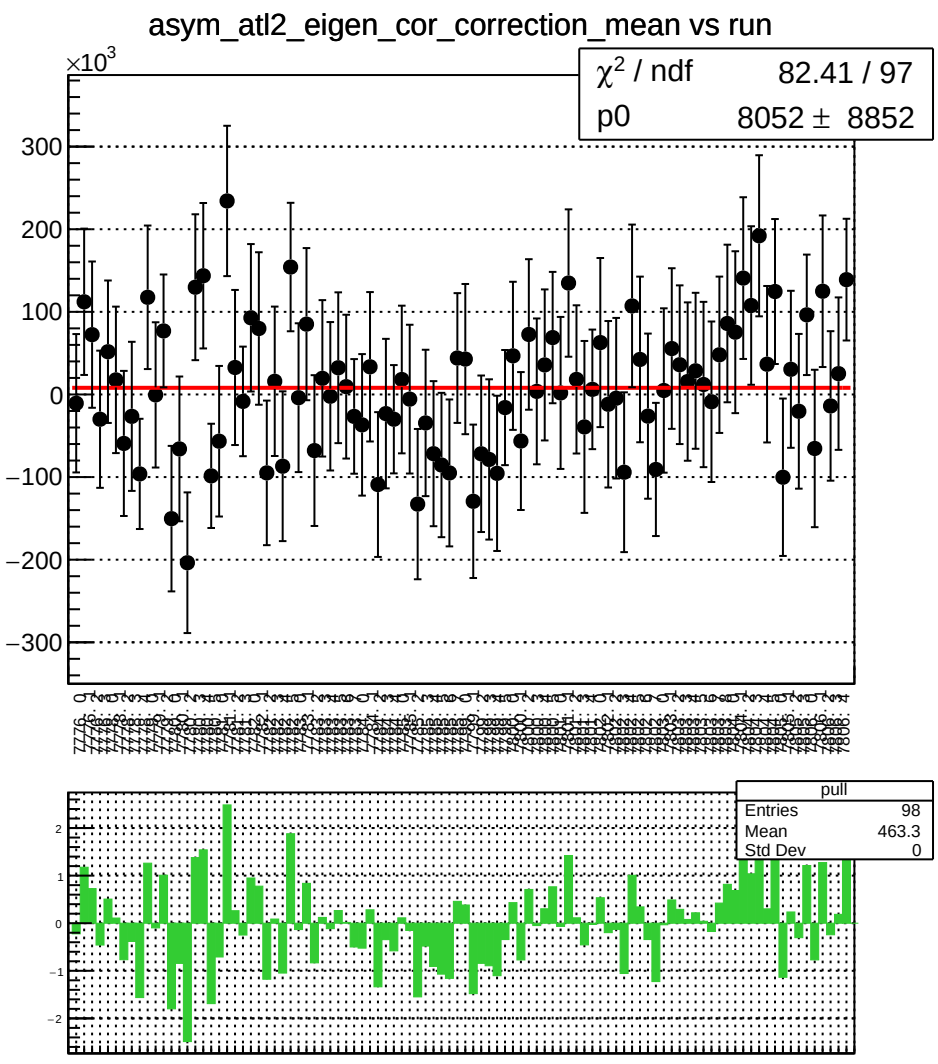

asym_atl2_cor_correction_mean vs run
χ² / ndf 82.41 / 97
p0 8052 ± 8852
×10³
pull
Entries 98
Mean 463.3
Std Dev 0
pull1D
Entries 98
Mean 0.01104
Std Dev 0.917

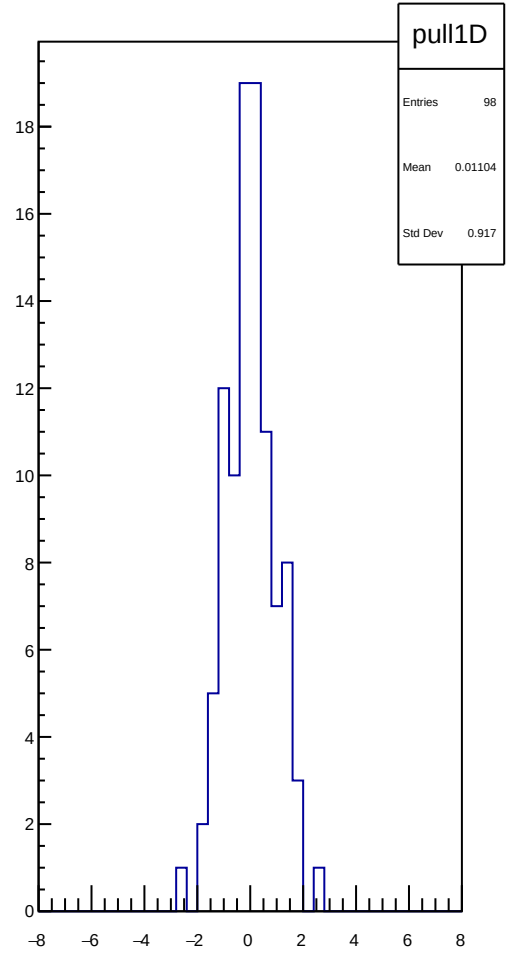

asym_atl2_cor_correction_rms vs run
χ² / ndf 4037 / 97
p0 8715 ± 6.259
10000
9500
9000
8500
8000

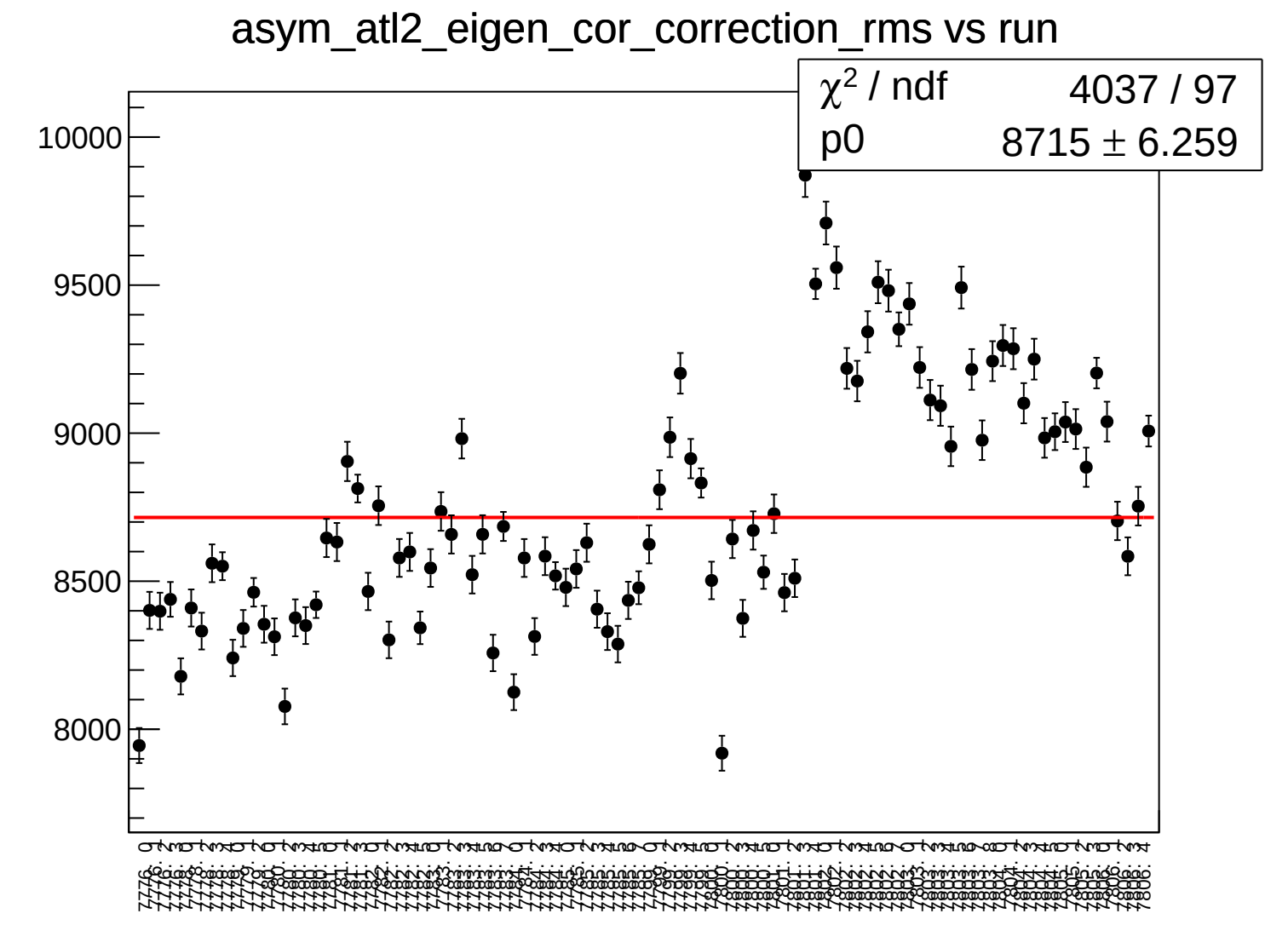

eigen_cor_asym_atl2_mean vs run
χ² / ndf 92.39 / 97
p0 3655 ± 2315
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 525.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

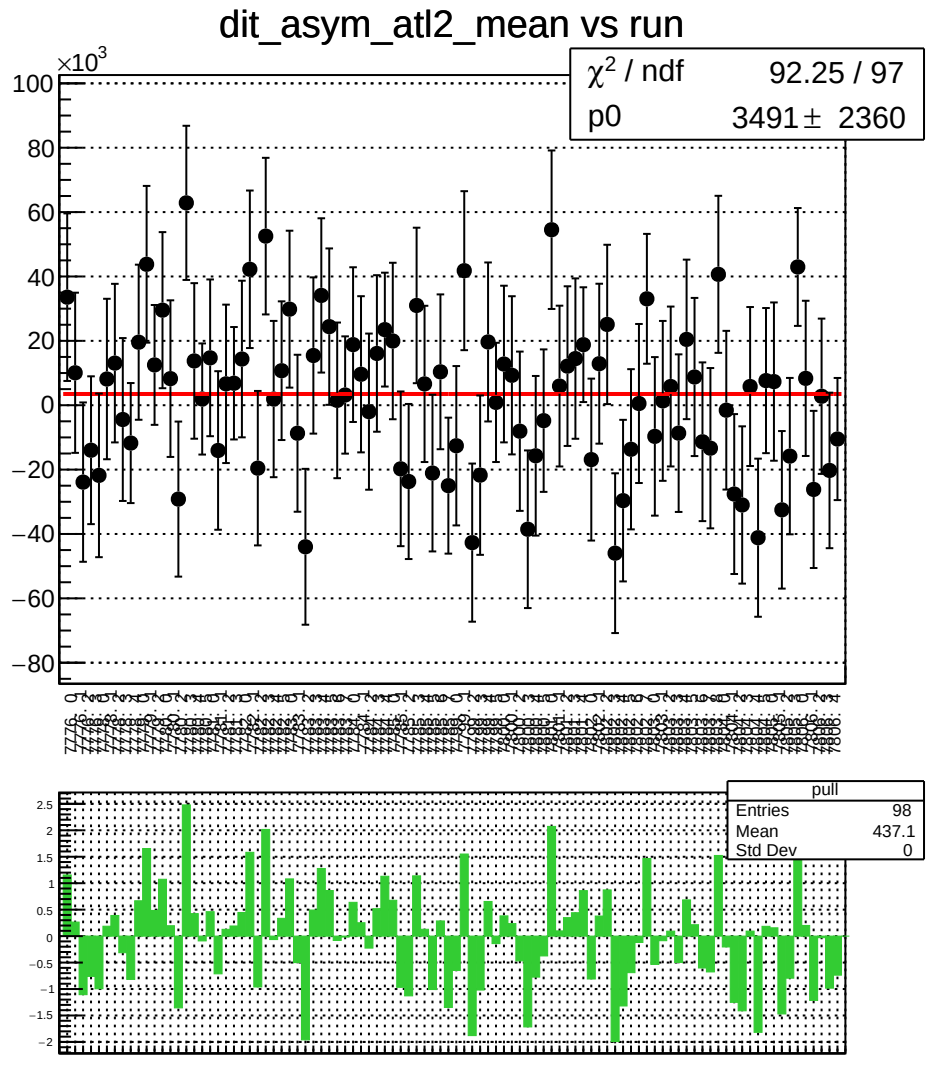

pull1D
Entries 98
Mean −0.01404
Std Dev 0.9708
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

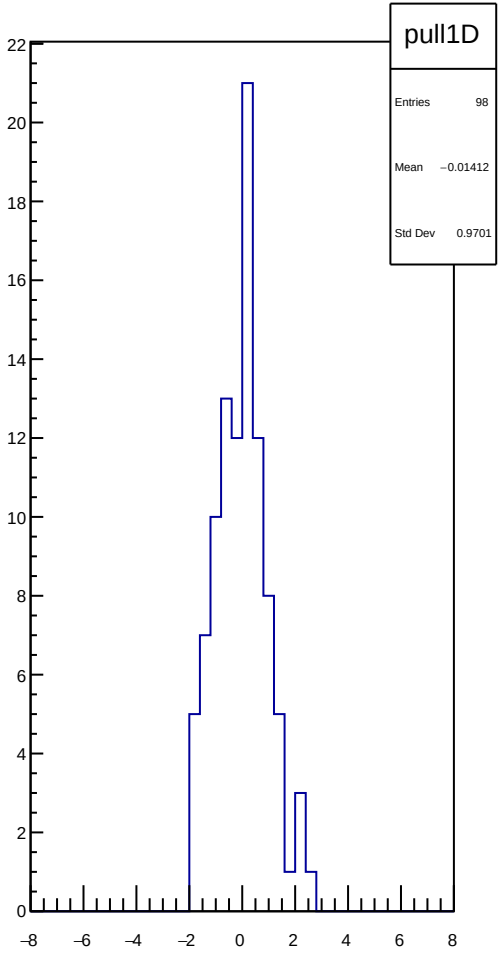

eigen_cor_asym_atl2_rms vs run
χ² / ndf 154.5 / 97
p0 2282 ± 1.637
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220

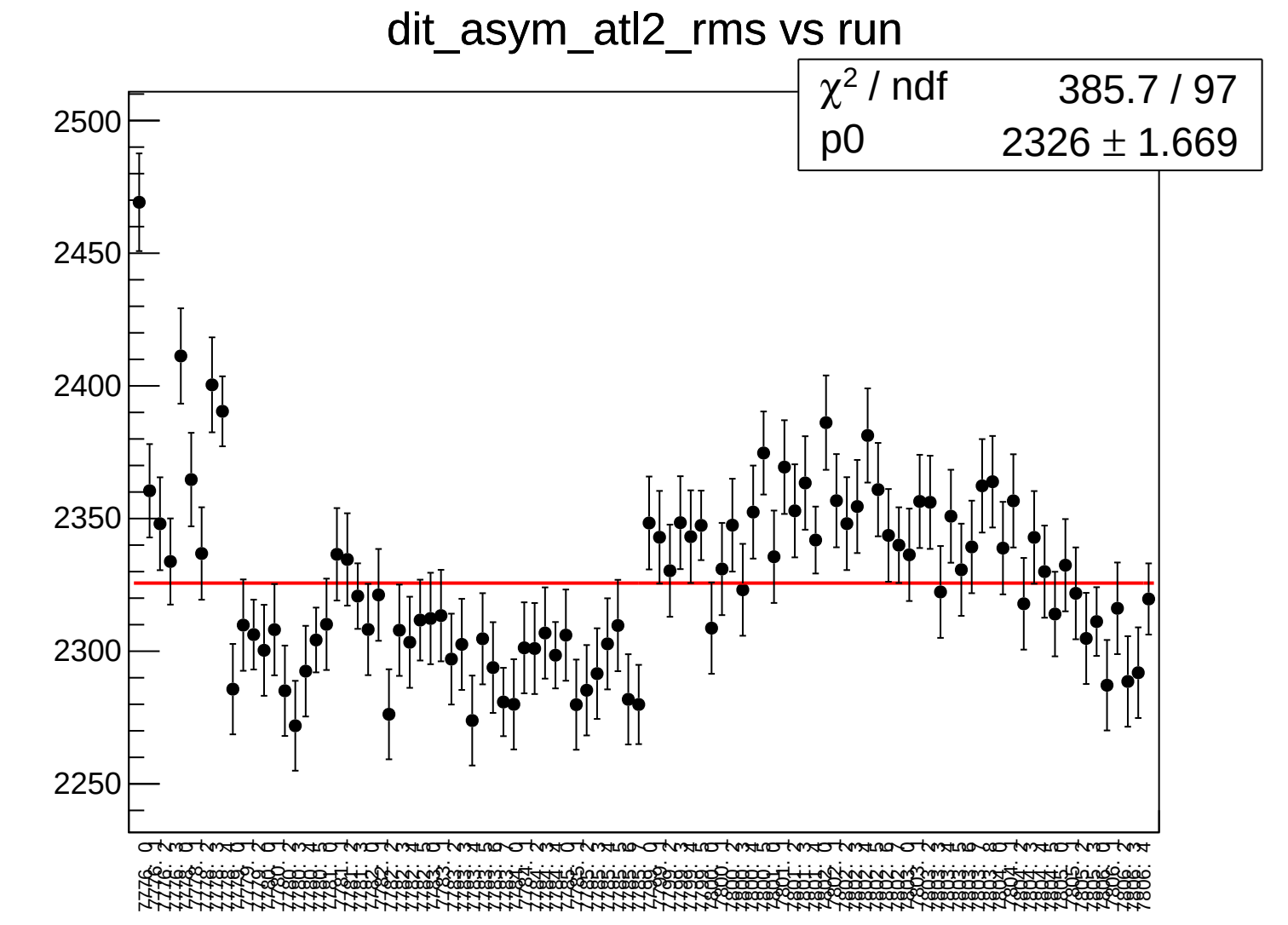

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.41 / 97
p0 8052 ± 8852
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 463.3
Std Dev 0
2
1
0
−1
−2

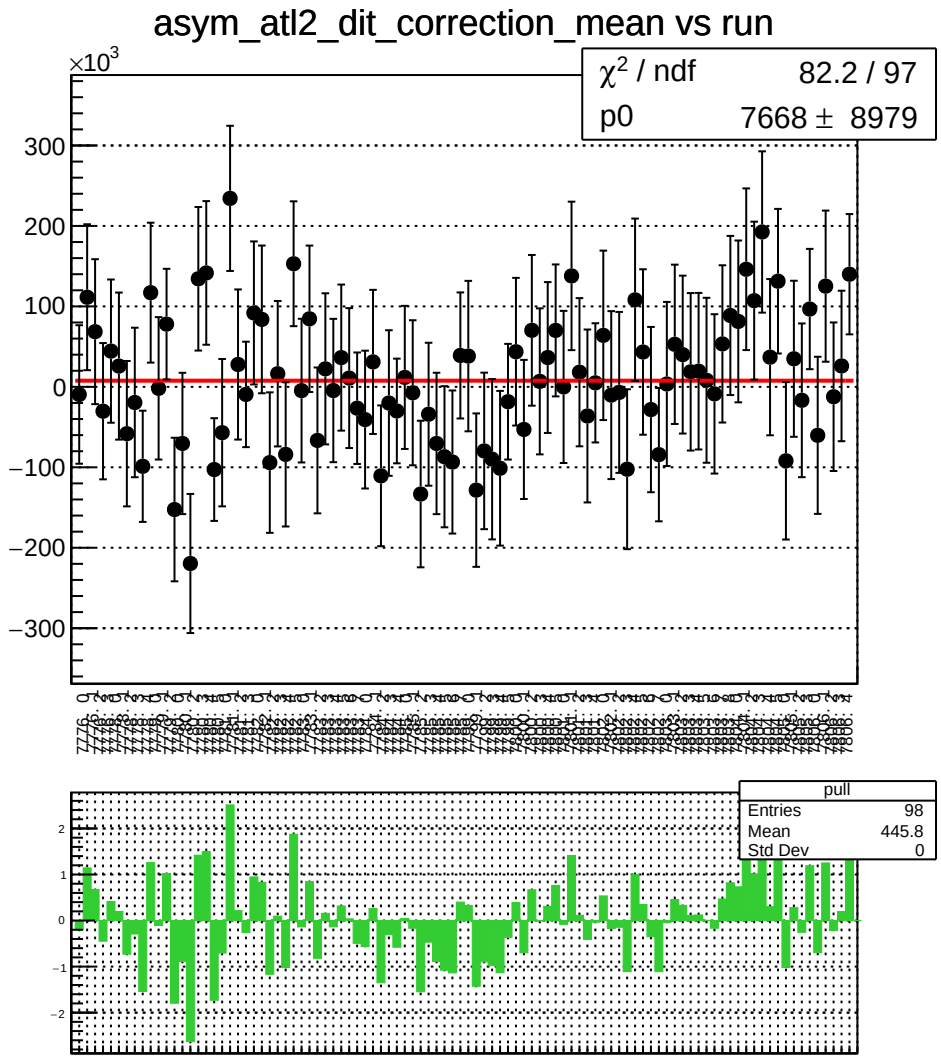

pull1D
Entries 98
Mean 0.01104
Std Dev 0.917
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

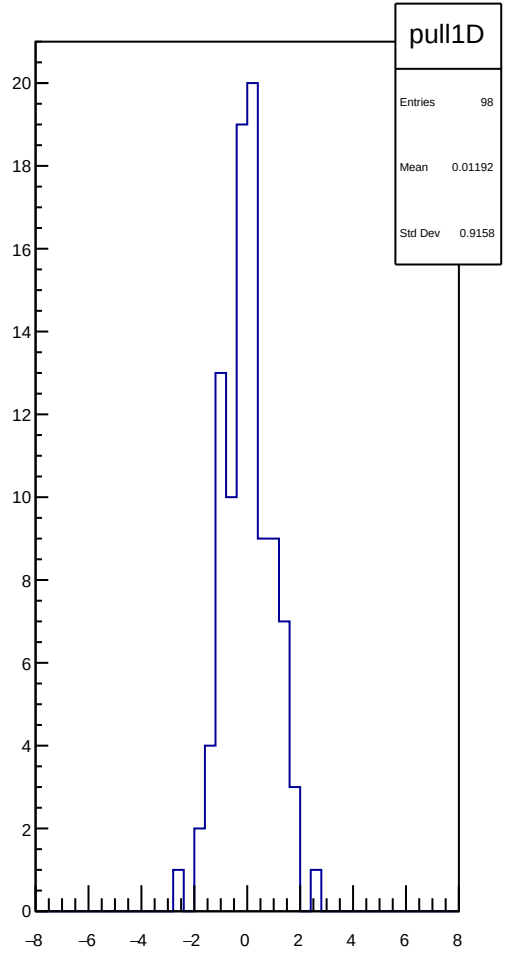

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 4037 / 97
p0 8715 ± 6.259
10000
9500
9000
8500
8000

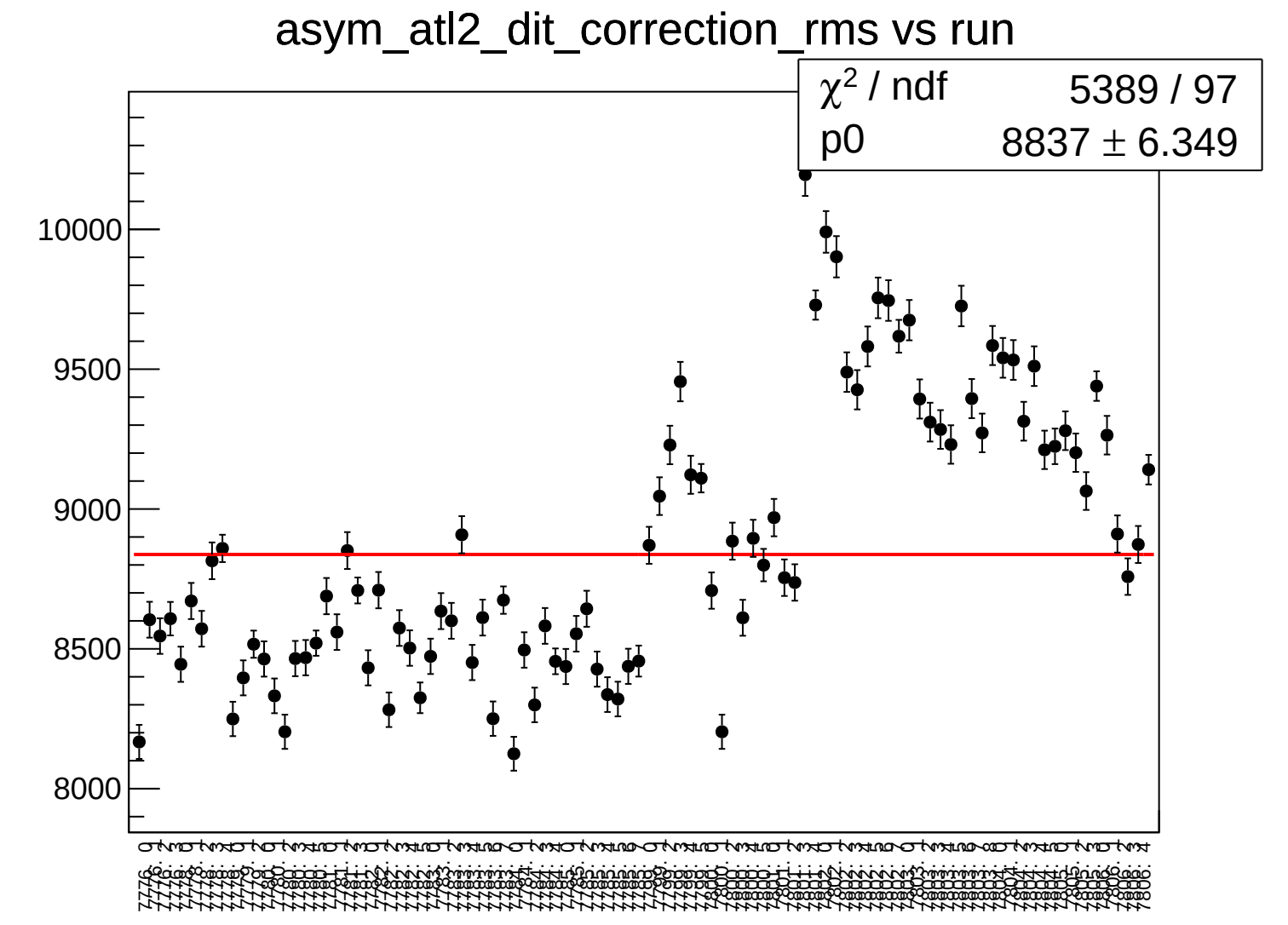

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 92.25 / 97
p0 3491 ± 2360
pull
Entries 98
Mean 437.1
Std Dev 0

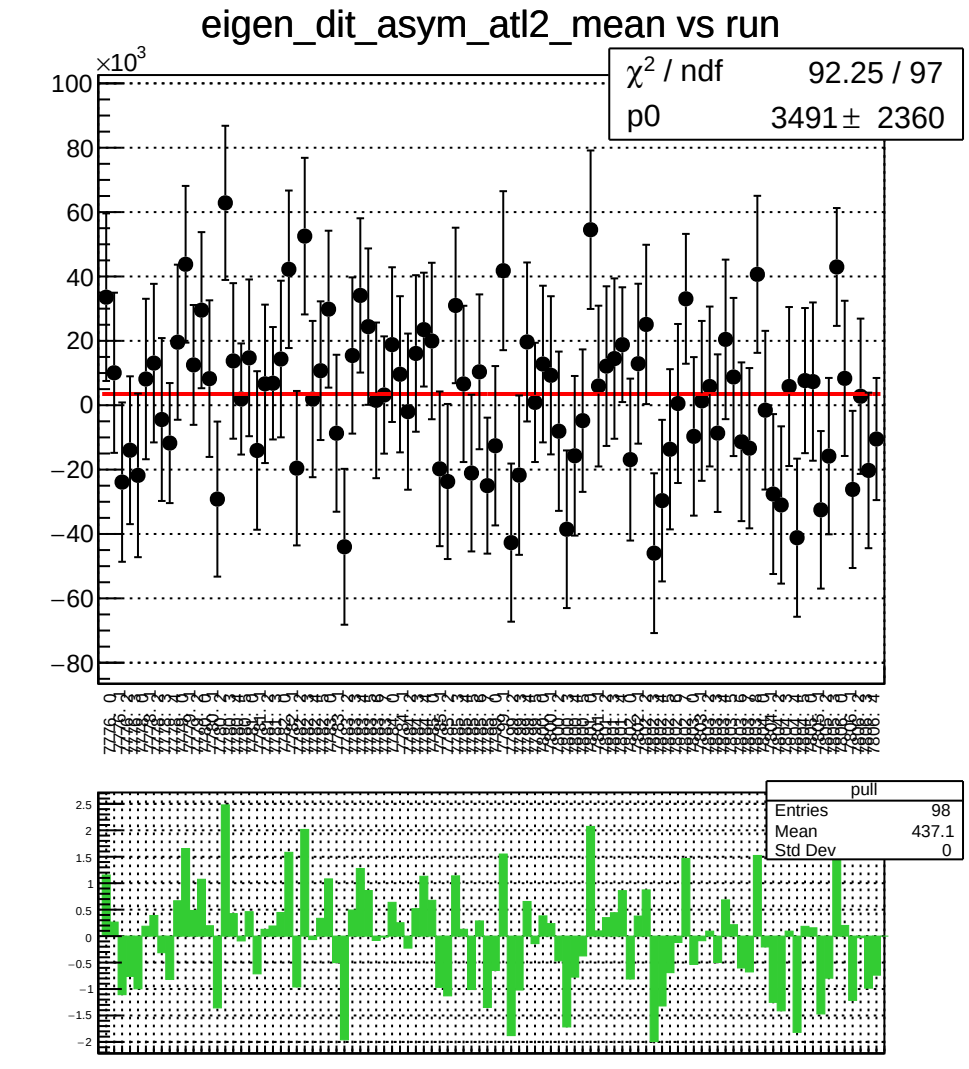

pull1D
Entries 98
Mean −0.01412
Std Dev 0.9701

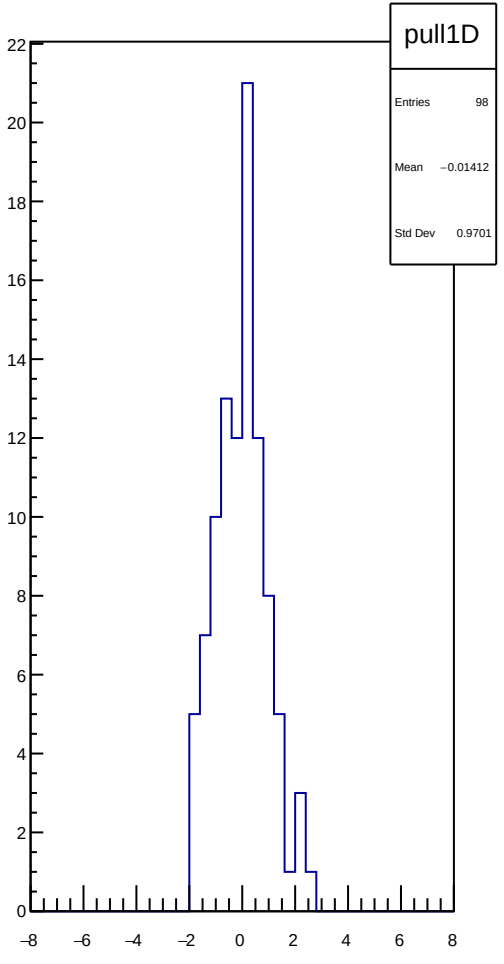

dit_asym_atl2_rms vs run
χ^2 / ndf 385.7 / 97
p0 2326 ± 1.669
2500
2450
2400
2350
2300
2250

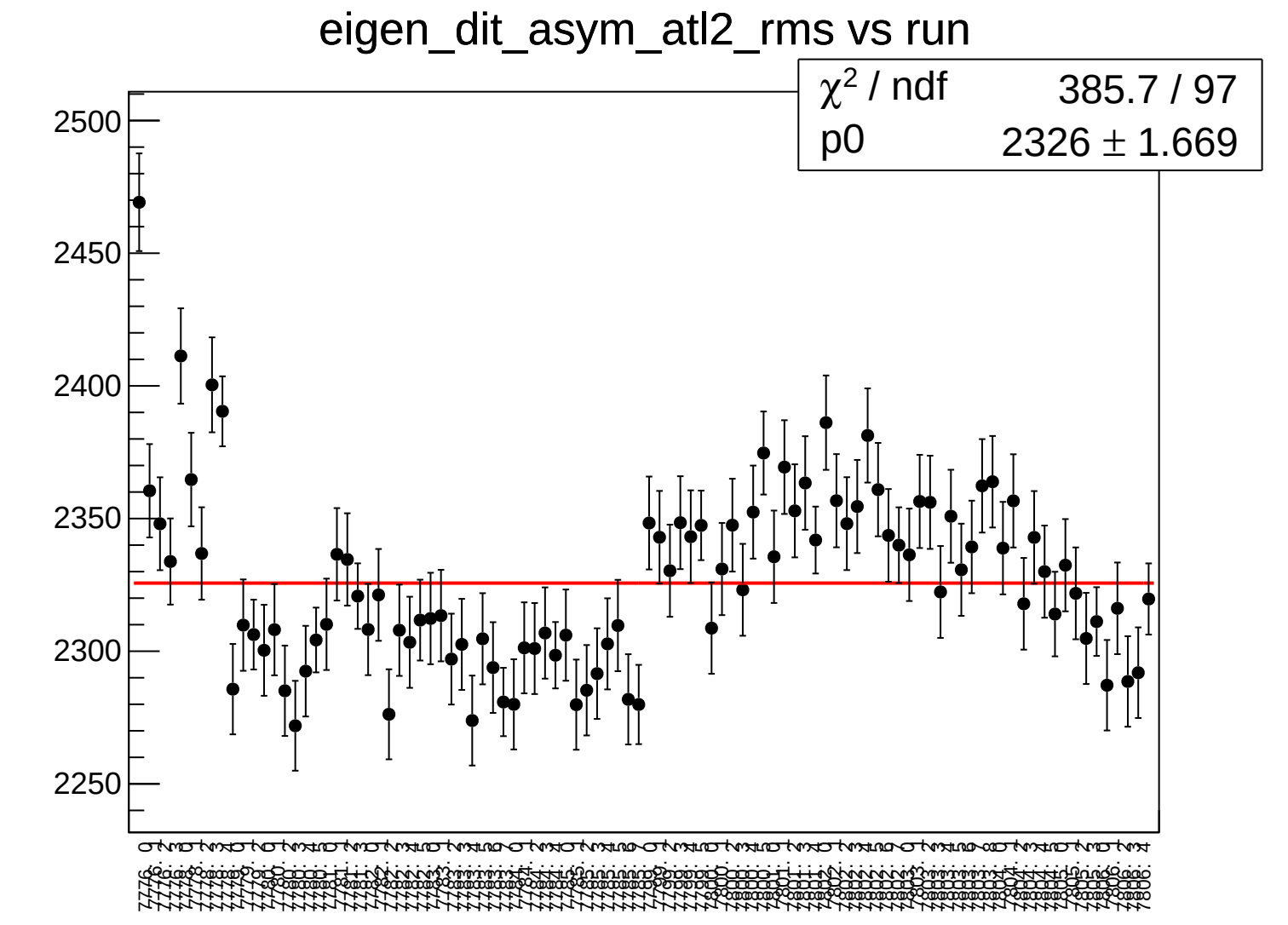

asym_atl2_dit_correction_mean vs run
χ² / ndf 82.2 / 97
p0 7668 ± 8979
×10³
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 445.8
Std Dev 0
2
1
0
−1
−2

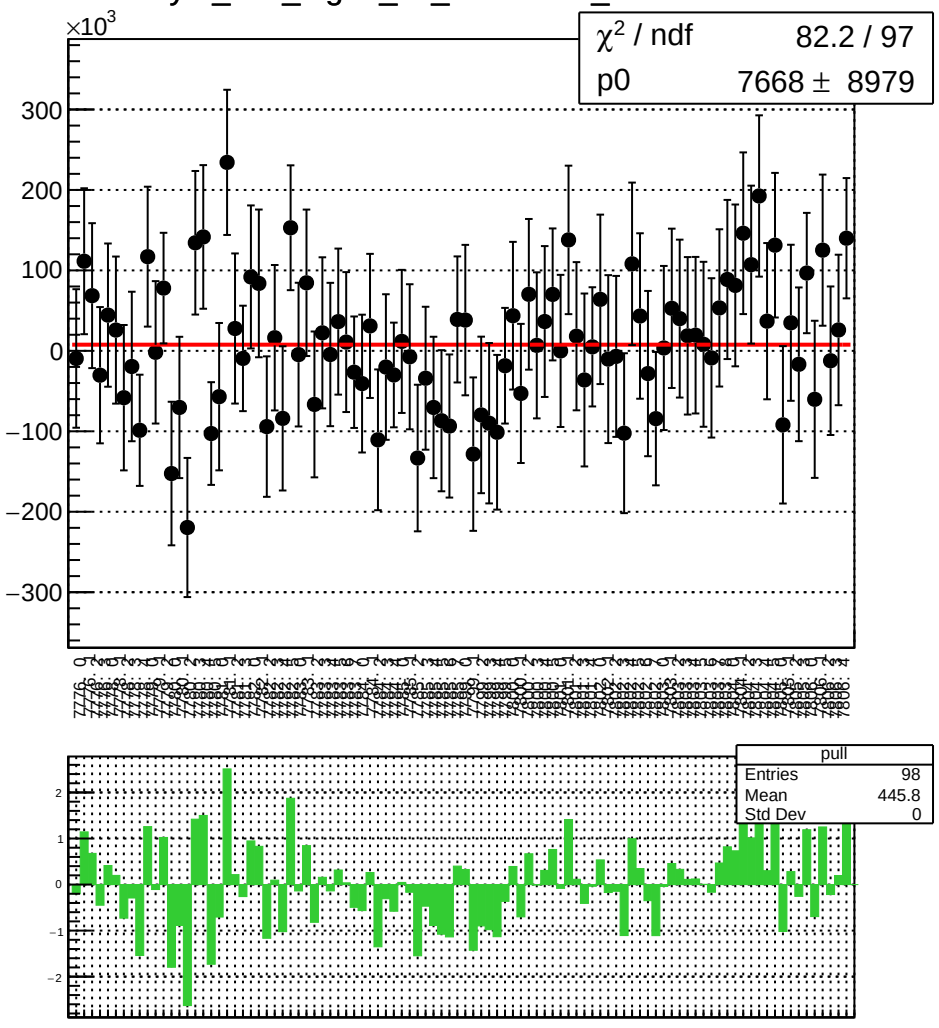

pull1D
Entries 98
Mean 0.01192
Std Dev 0.9158
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

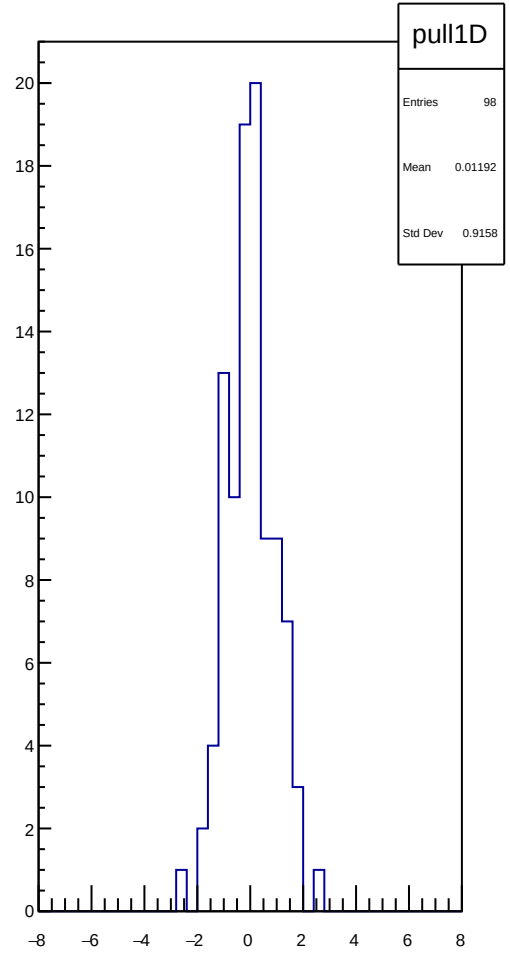

asym_atl2_dit_correction_rms vs run
χ^2 / ndf 5389 / 97
p0 8837 ± 6.349
10000
9500
9000
8500
8000

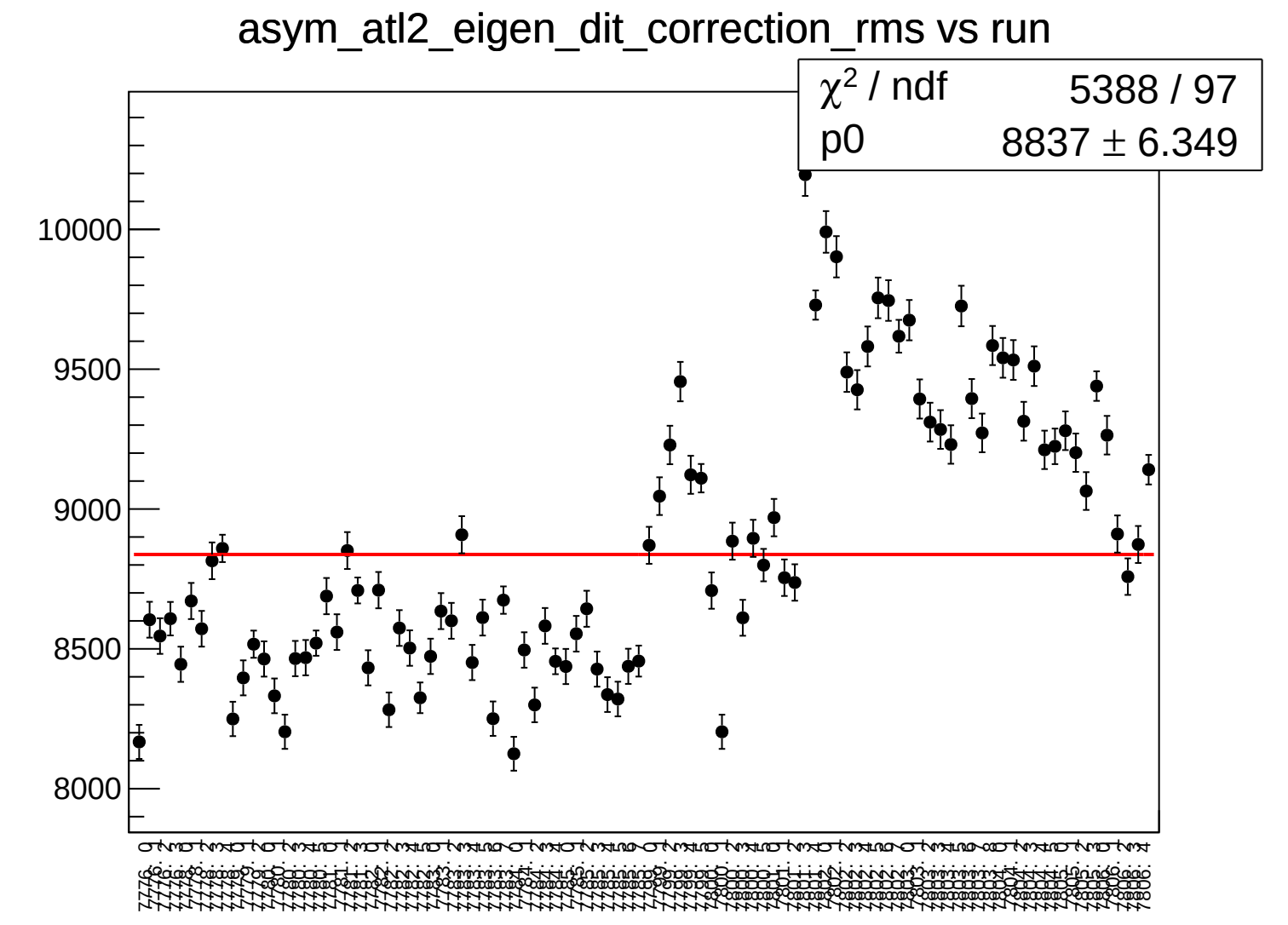

eigen_dit_asym_atl2_mean vs run
χ² / ndf 92.25 / 97
p0 3491 ± 2360
×10³
pull
Entries 98
Mean 437.1
Std Dev 0

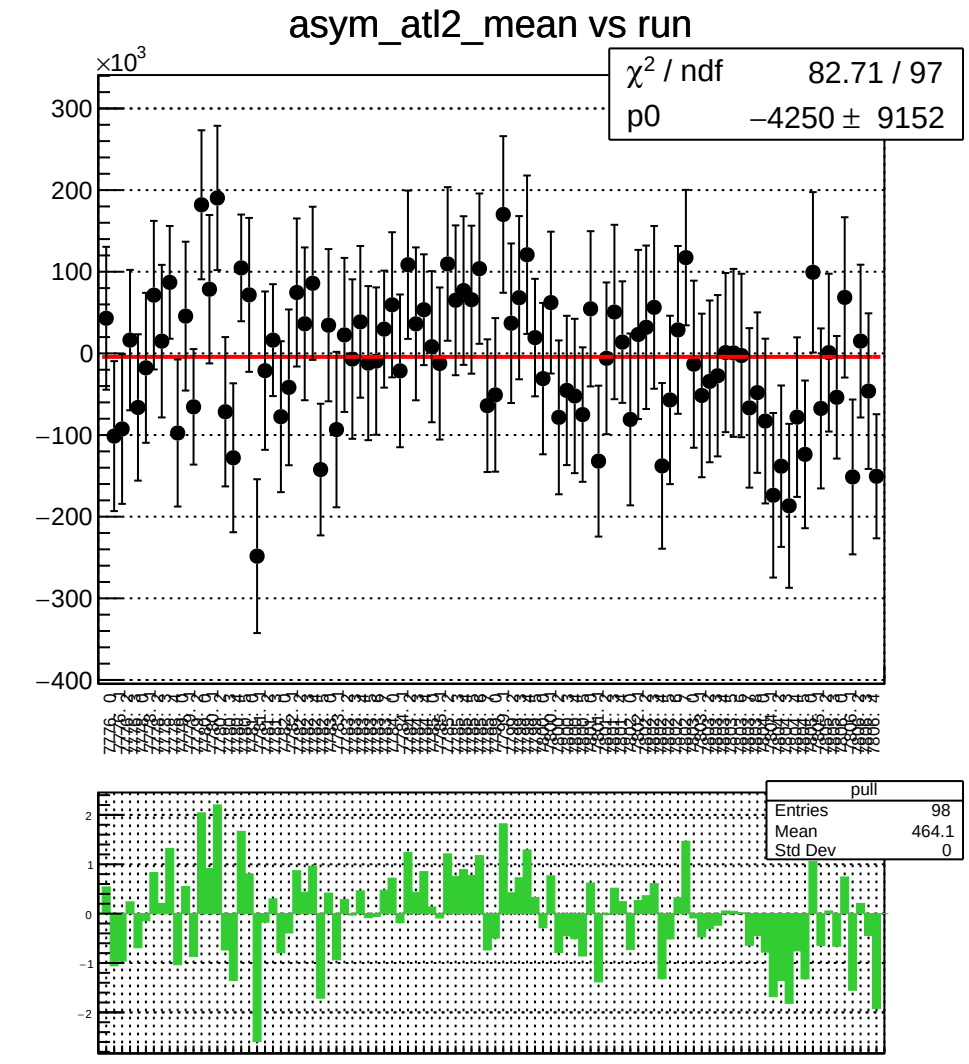

pull1D
Entries 98
Mean −0.01412
Std Dev 0.9701

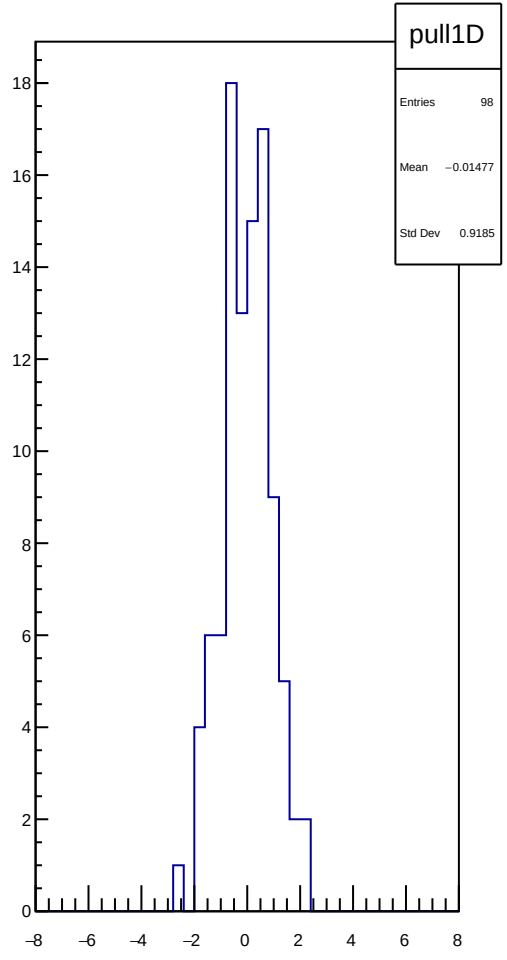

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 385.7 / 97
p0 2326 ± 1.669
2500
2450
2400
2350
2300
2250

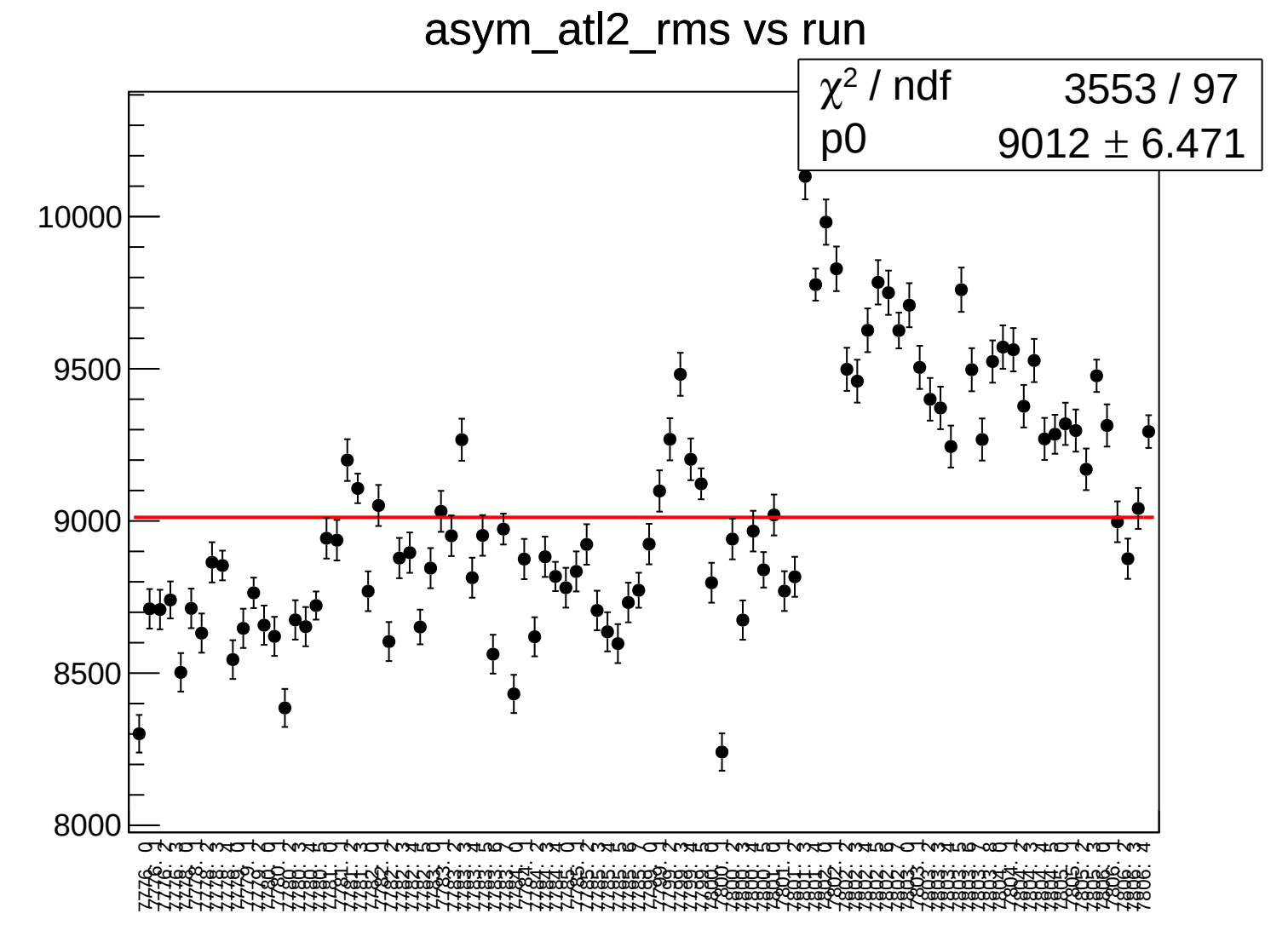

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.2 / 97
p0 7668 ± 8979
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 445.8
Std Dev 0
2
1
0
−1
−2

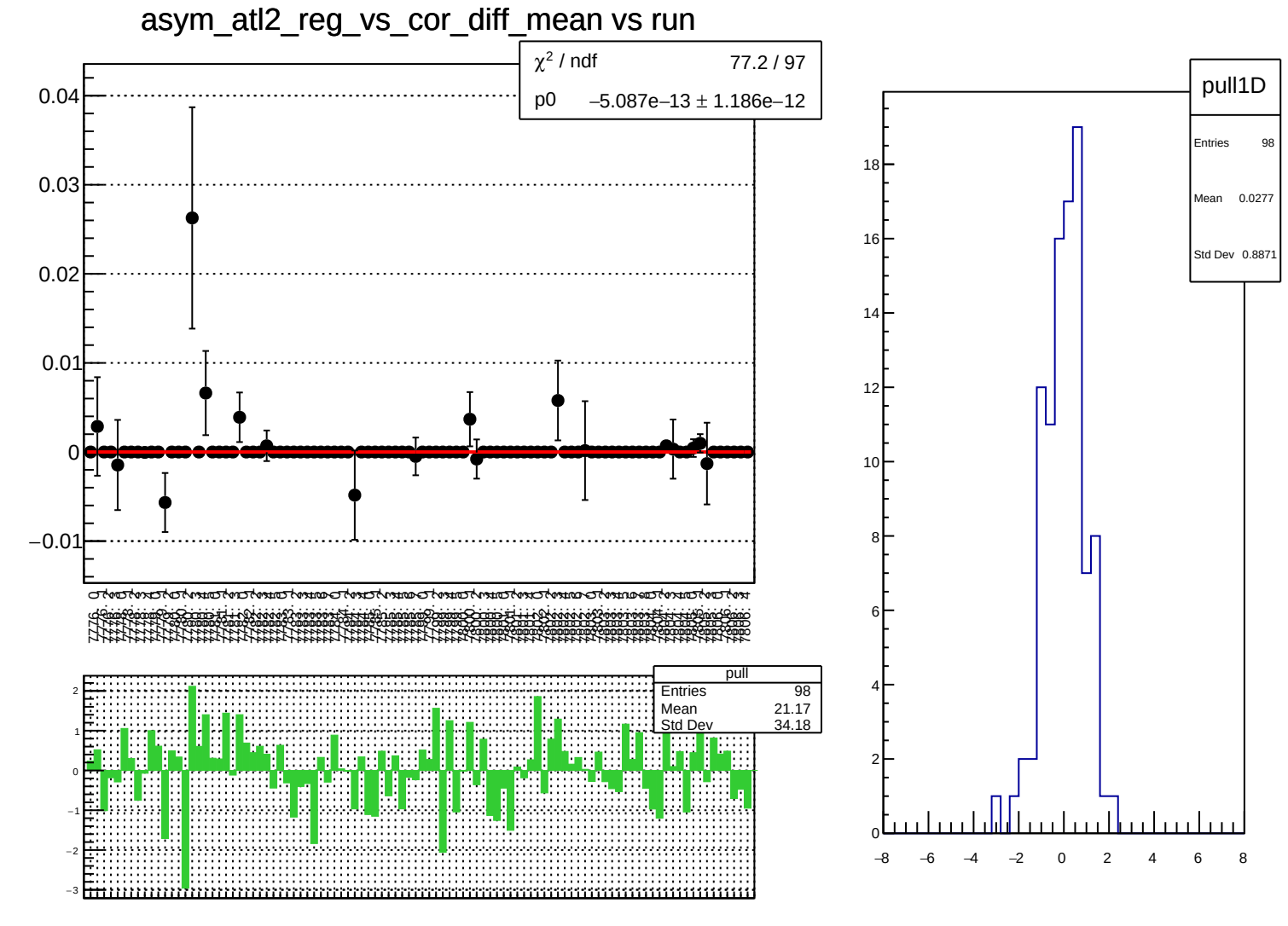

pull1D
Entries 98
Mean 0.01192
Std Dev 0.9158
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

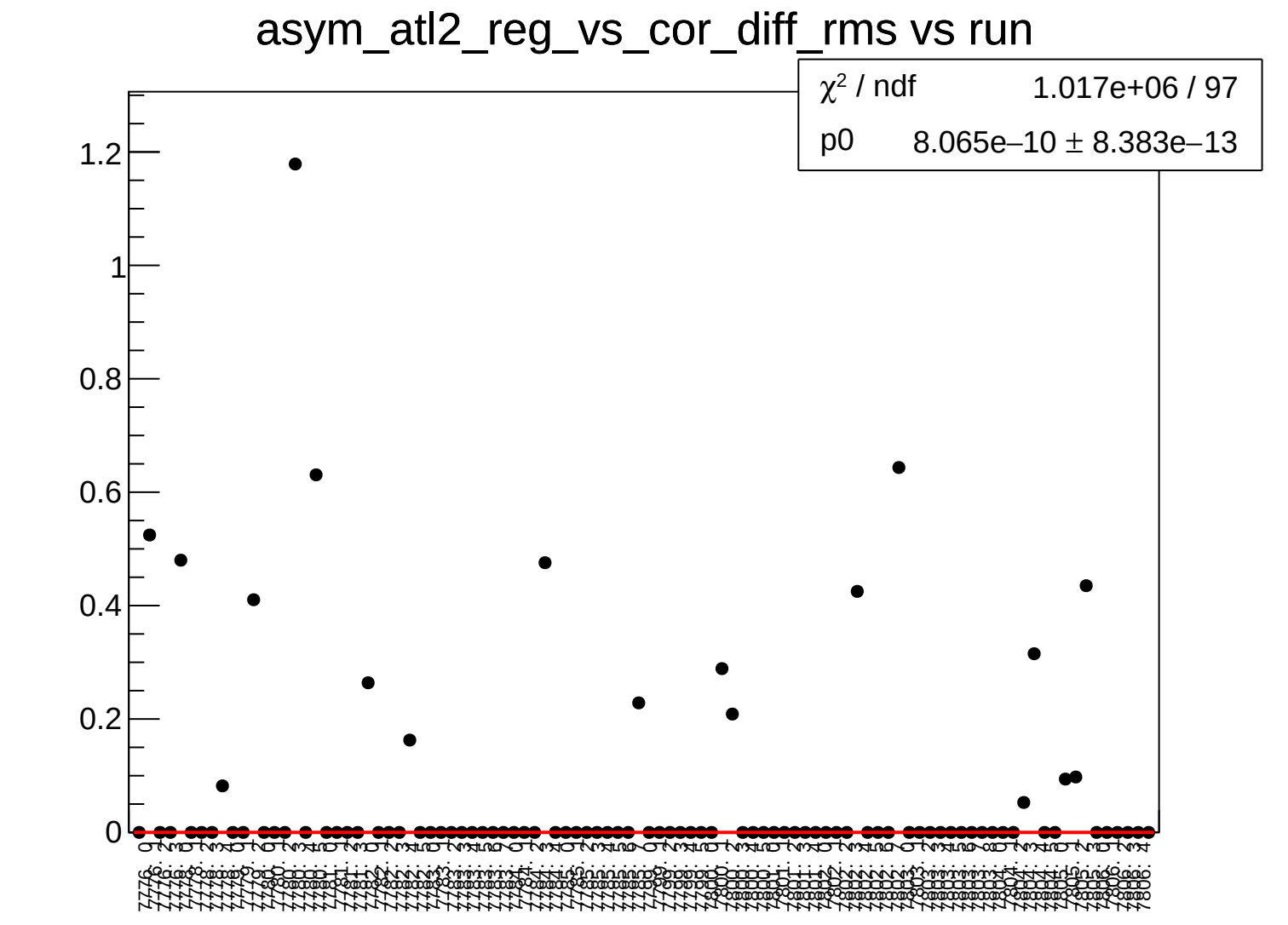

asym_atl2_eigen_dit_correction_rms vs run
χ^2 / ndf 5388 / 97
p0 8837 ± 6.349
10000
9500
9000
8500
8000

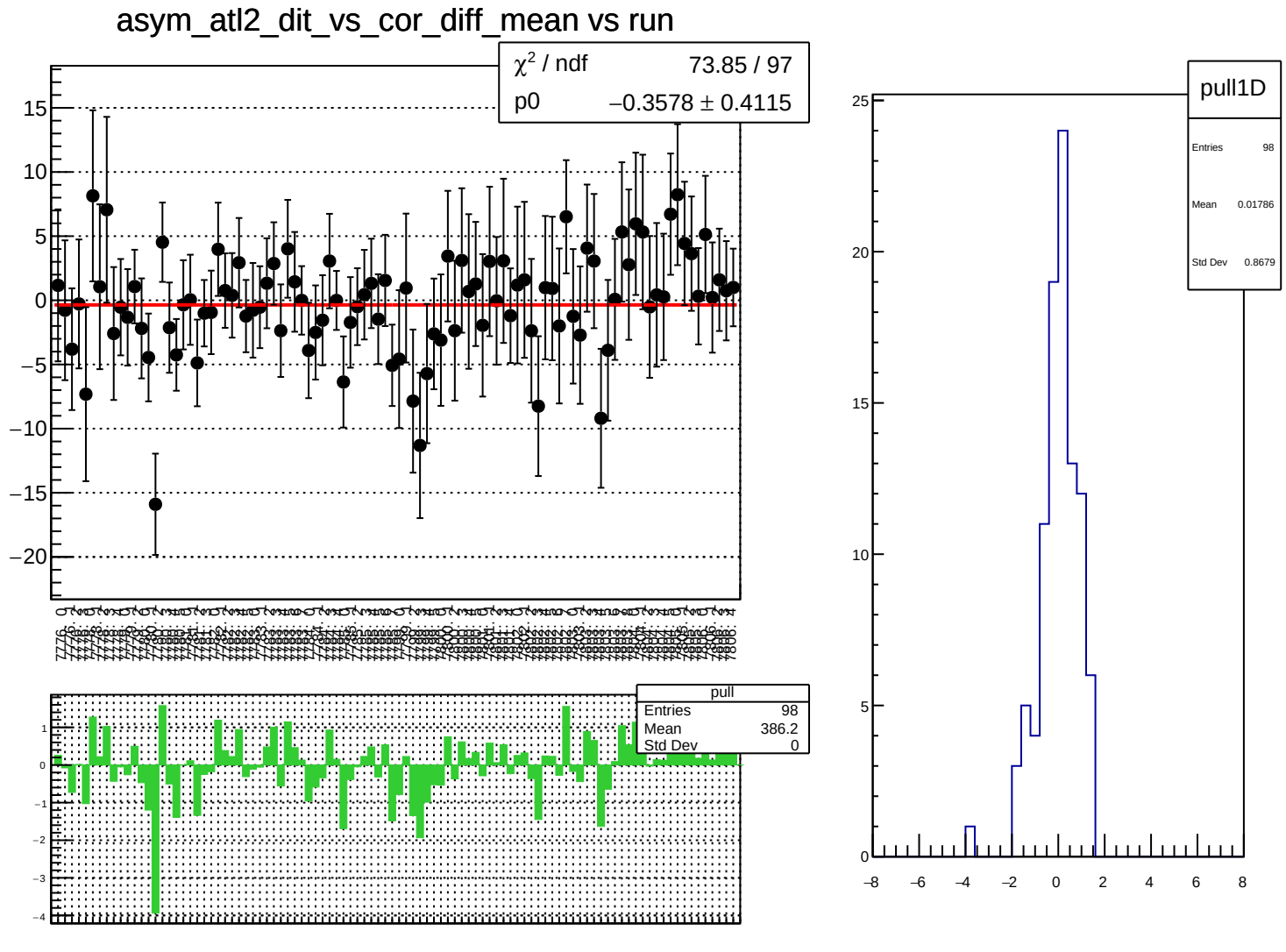

asym_atl2_mean vs run
×10^3
χ^2 / ndf 82.71 / 97
p0 −4250 ± 9152
300
200
100
0
−100
−200
−300
−400
pull
Entries 98
Mean 464.1
Std Dev 0
2
1
0
−1
−2

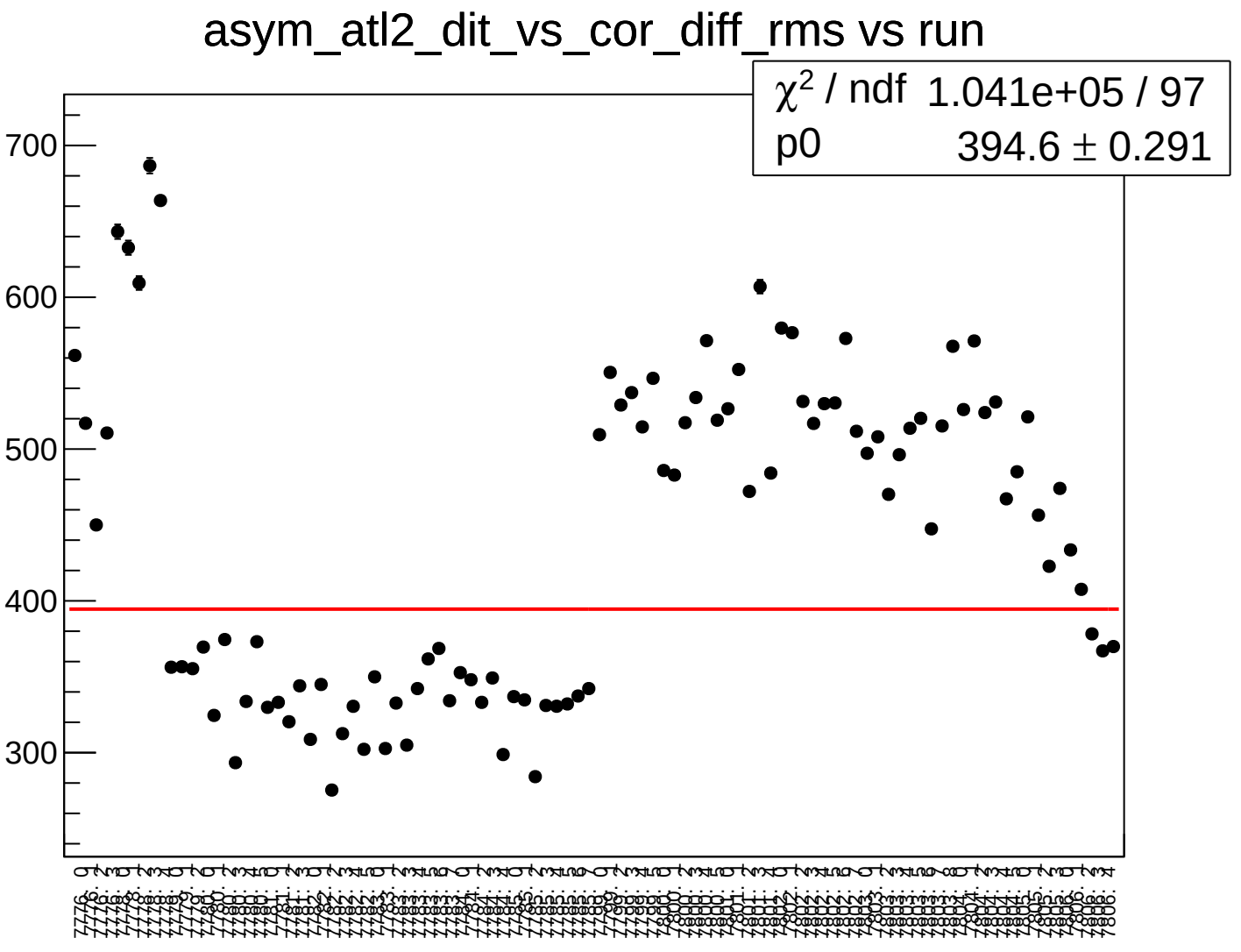

pull1D
Entries 98
Mean −0.01477
Std Dev 0.9185
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

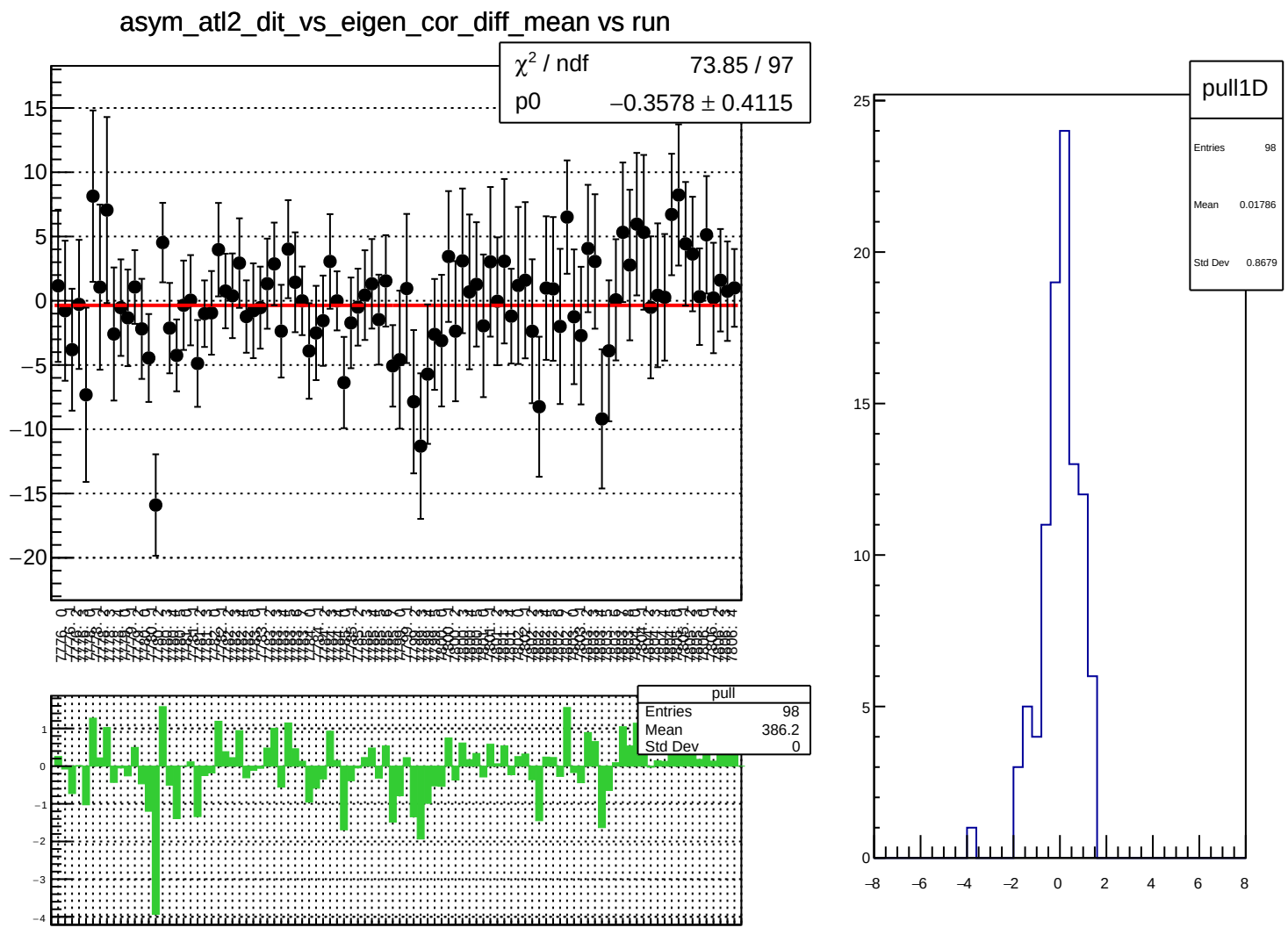

asym_atl2_rms vs run
χ² / ndf 3553 / 97
p0 9012 ± 6.471
10000
9500
9000
8500
8000

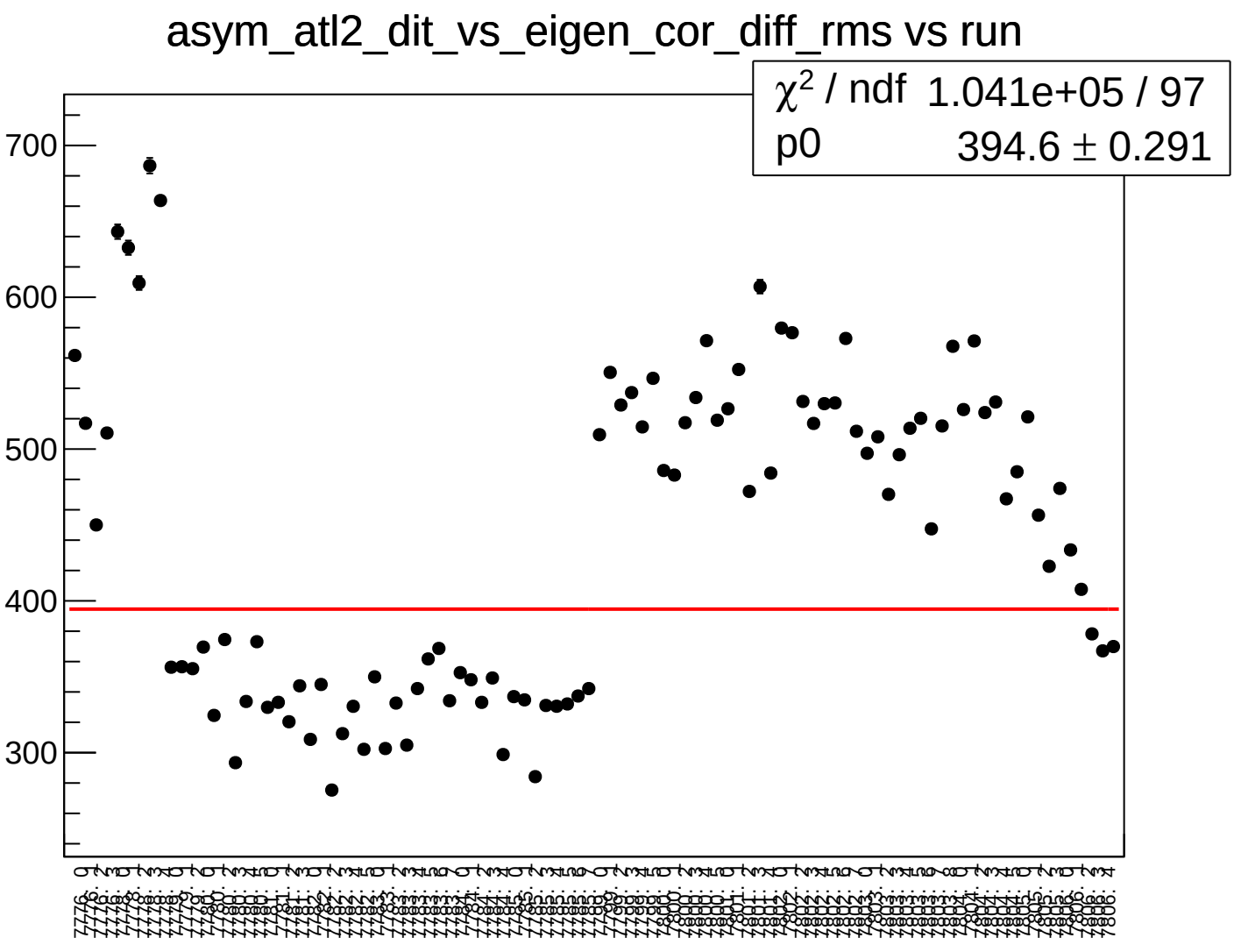

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 77.2 / 97
p0 −5.087e−13 ± 1.186e−12
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 98
Mean 21.17
Std Dev 34.18
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.0277
Std Dev 0.8871
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

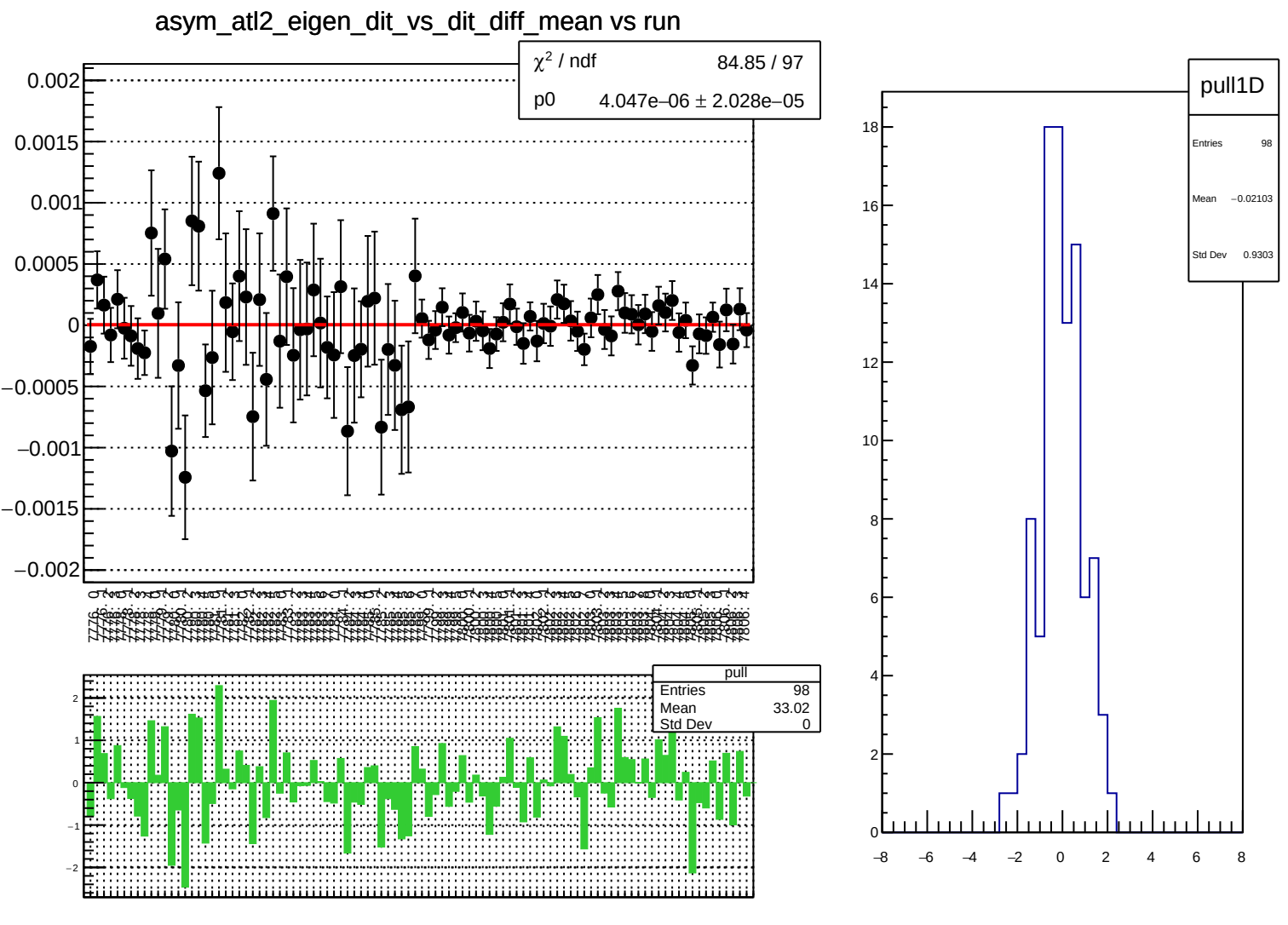

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.017e+06 / 97
p0 8.065e−10 ± 8.383e−13
1.2
1
0.8
0.6
0.4
0.2
0

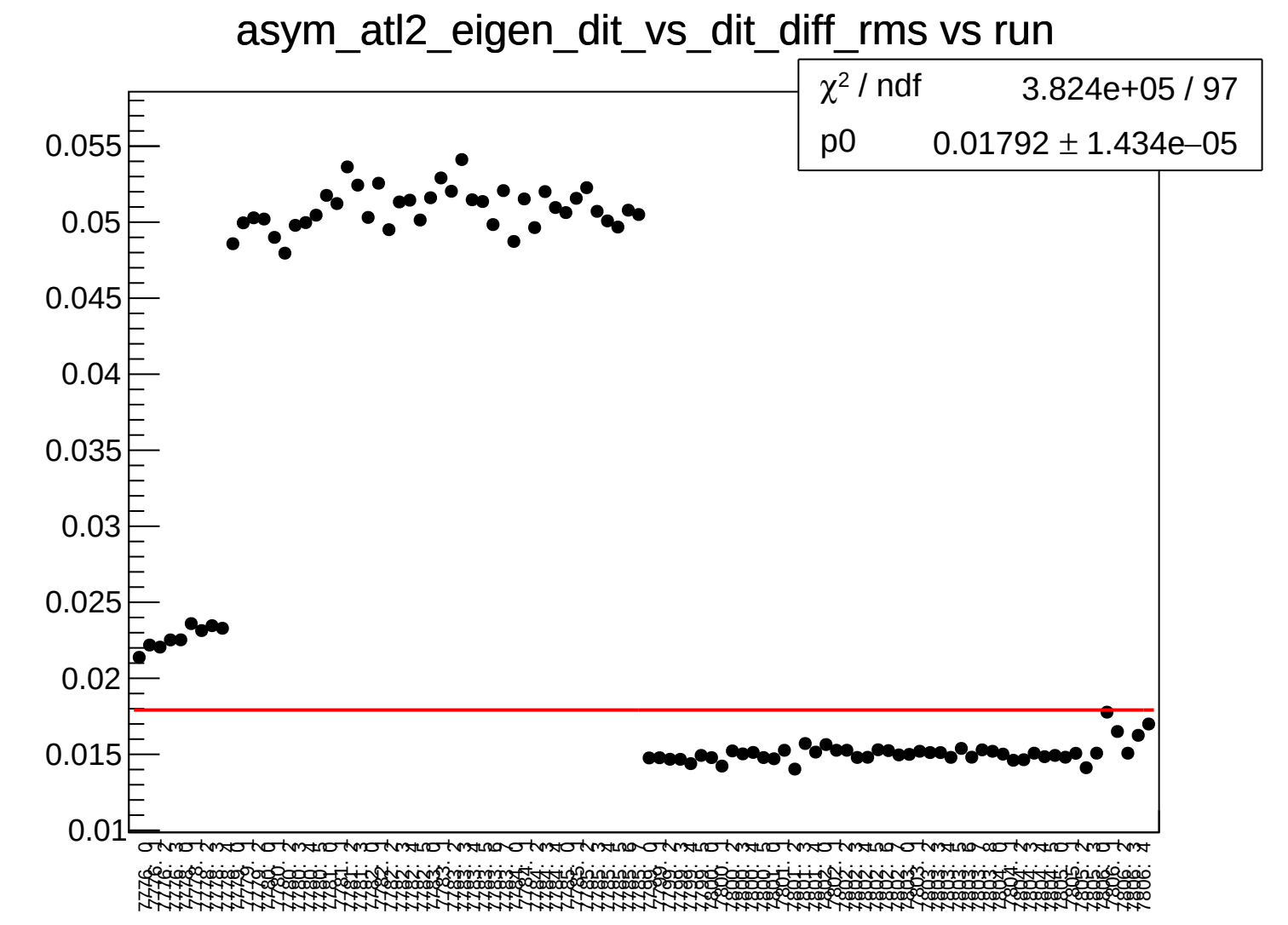

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 73.85 / 97
p0 −0.3578 ± 0.4115
pull
Entries 98
Mean 386.2
Std Dev 0
pull1D
Entries 98
Mean 0.01786
Std Dev 0.8679

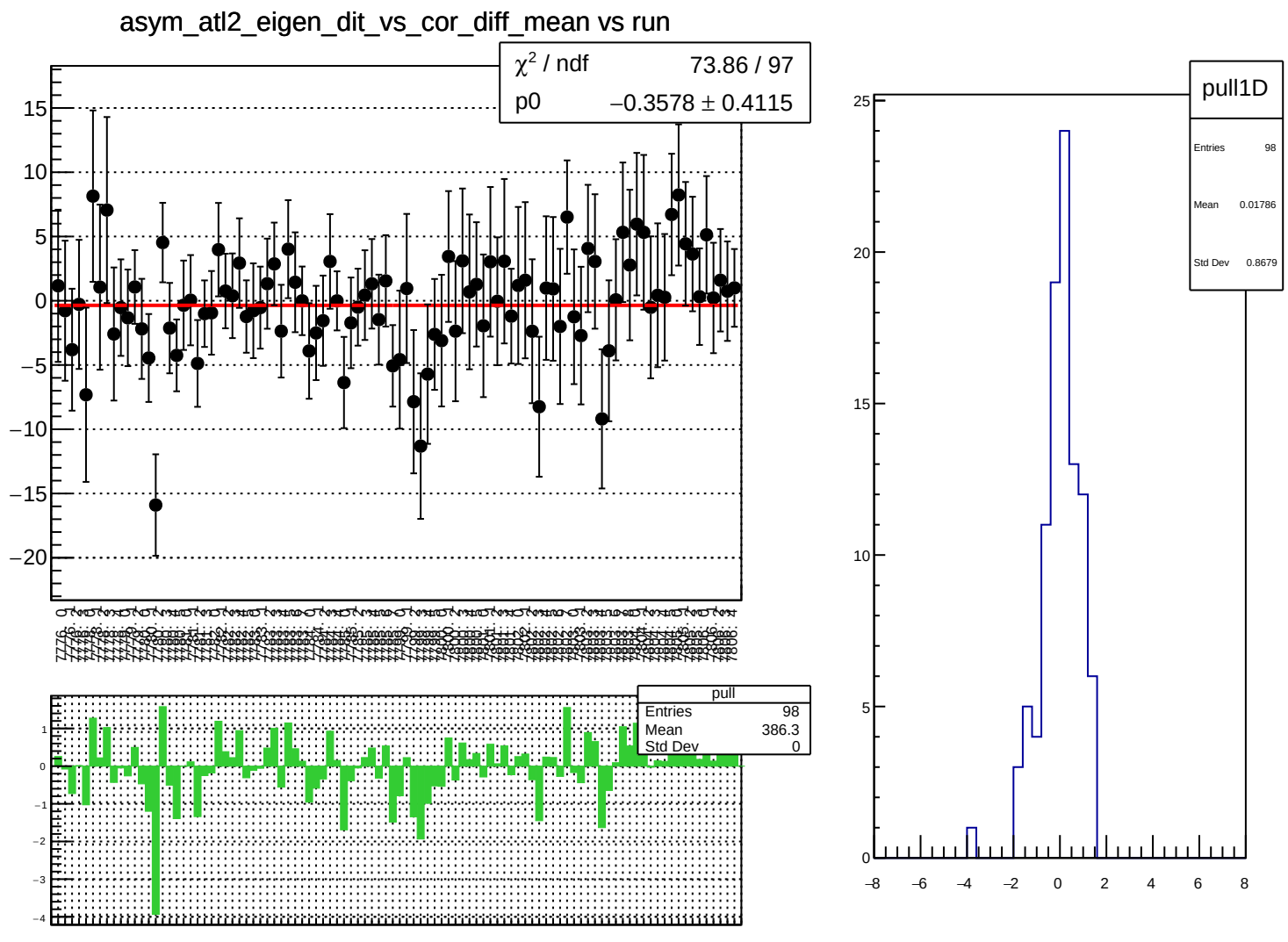

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.041e+05 / 97
p0 394.6 ± 0.291
700
600
500
400
300

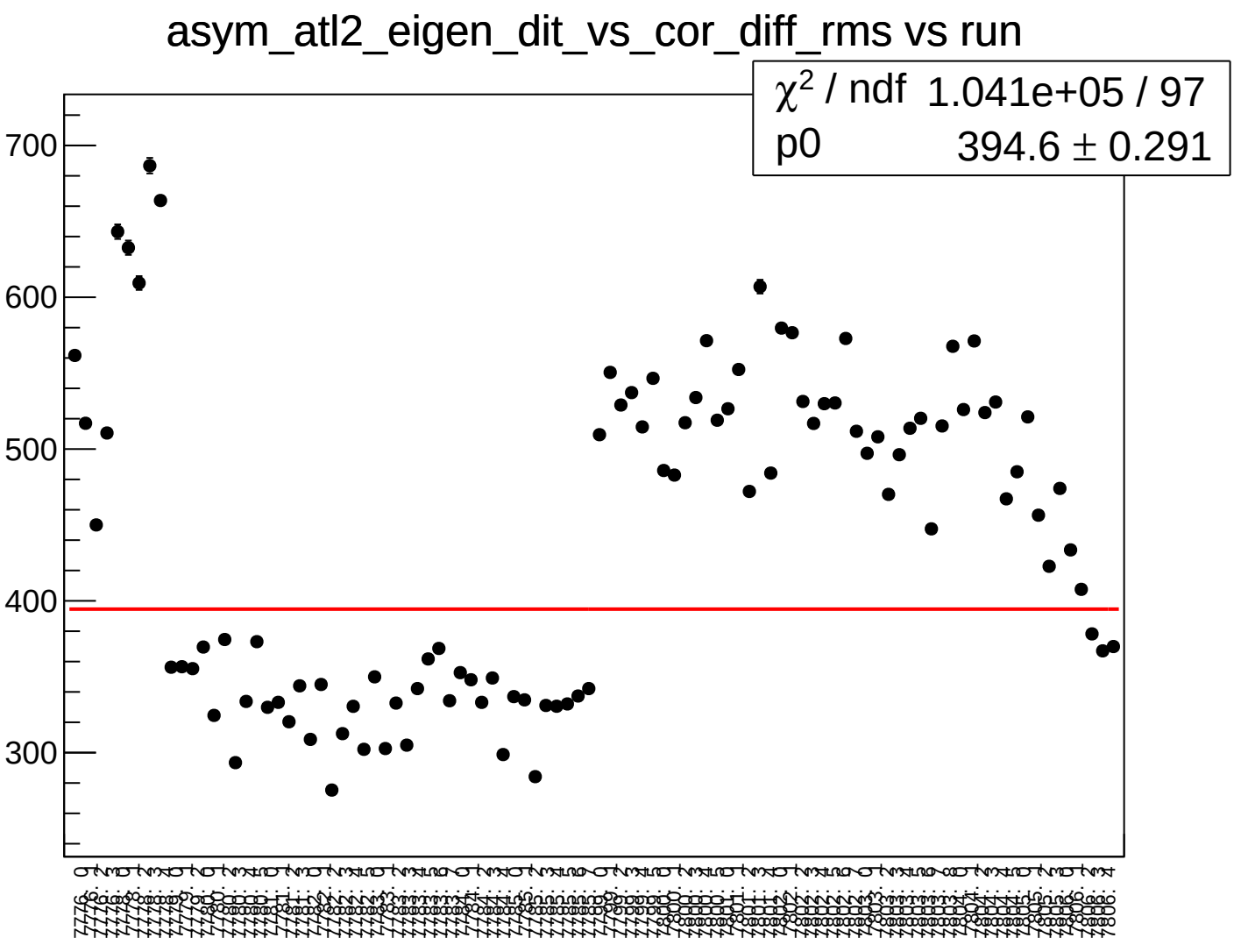

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.85 / 97
p0 −0.3578 ± 0.4115
pull
Entries 98
Mean 386.2
Std Dev 0
pull1D
Entries 98
Mean 0.01786
Std Dev 0.8679

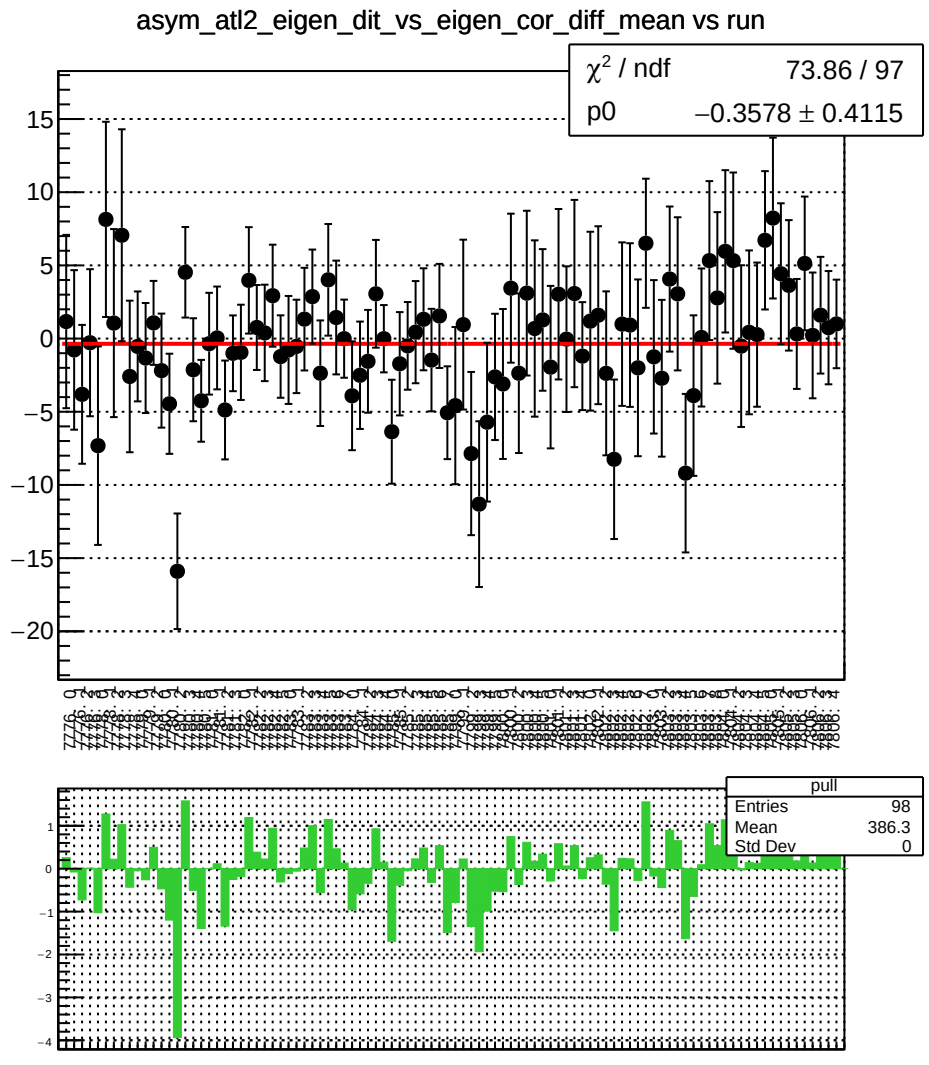

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.041e+05 / 97
p0 394.6 ± 0.291
700
600
500
400
300

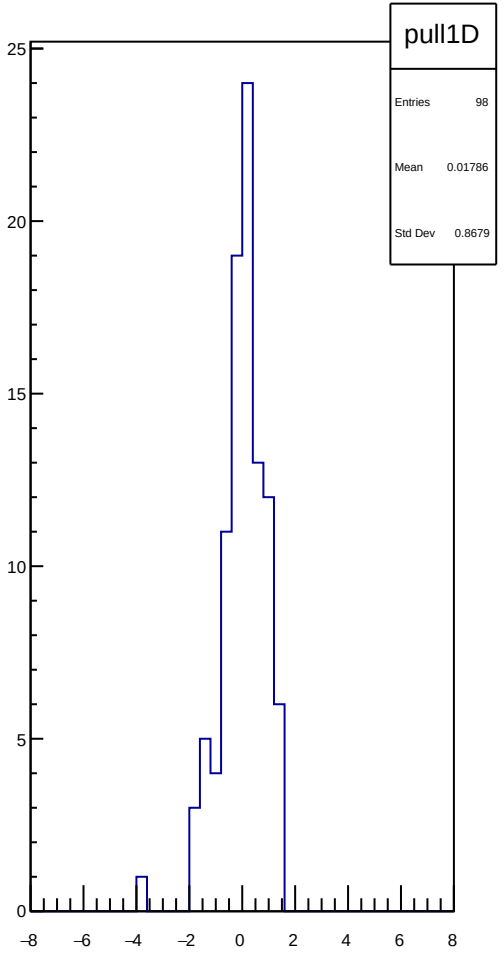

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.85 / 97
p0 4.047e−06 ± 2.028e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 98
Mean 33.02
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.02103
Std Dev 0.9303
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

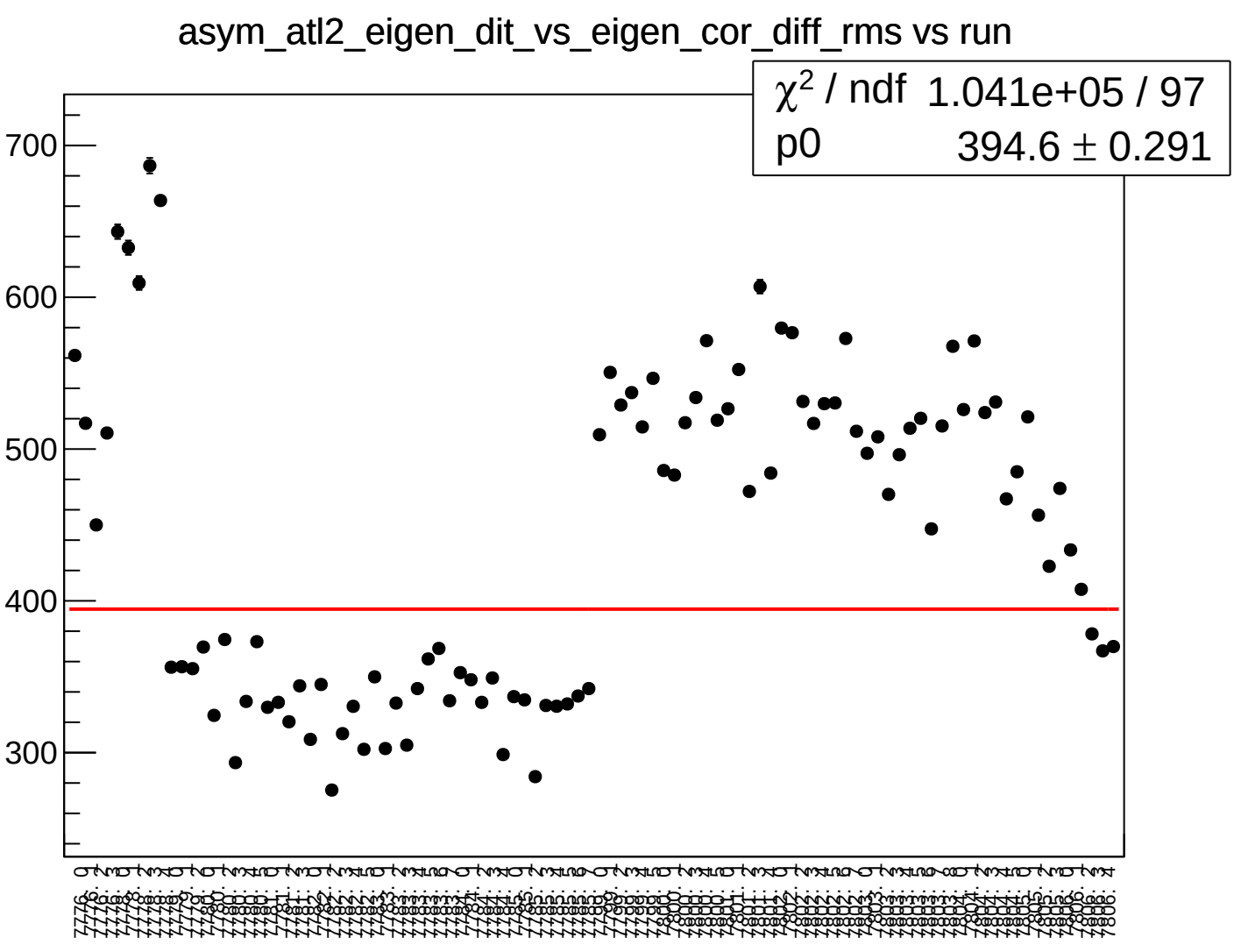

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.824e+05 / 97
p0 0.01792 ± 1.434e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

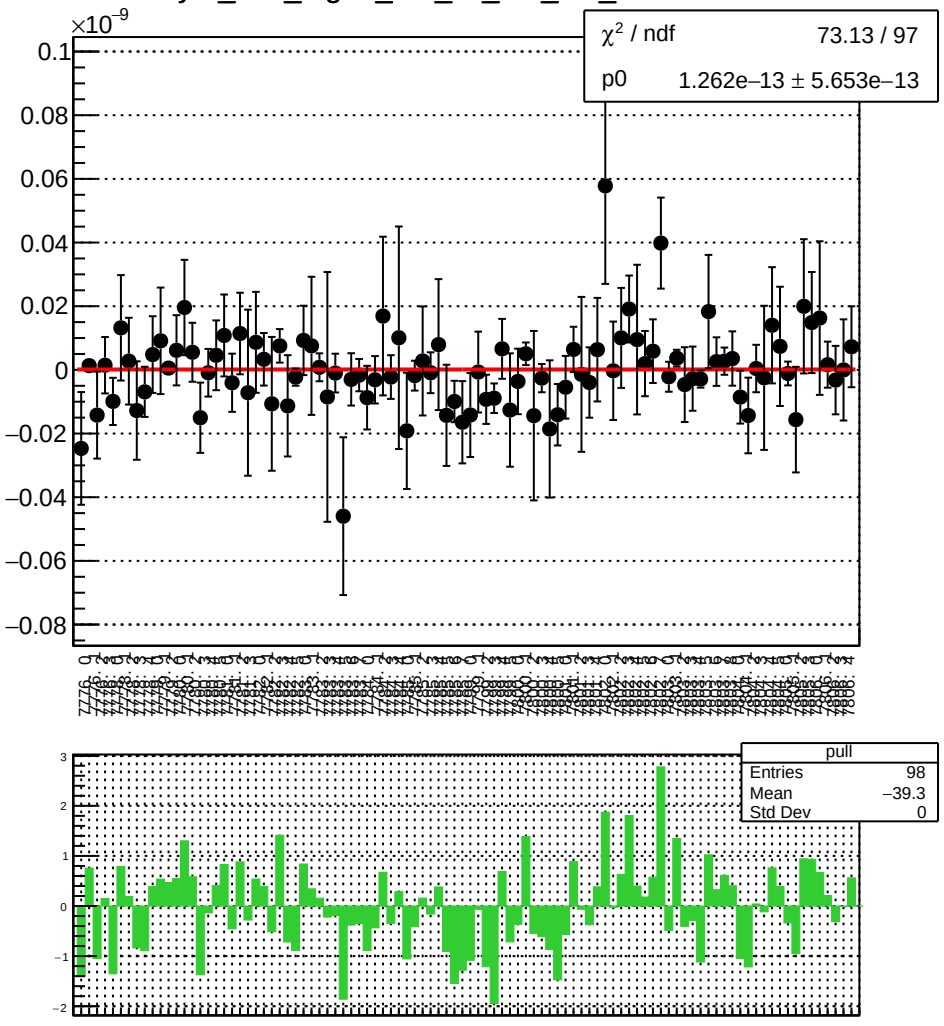

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.86 / 97
p0 −0.3578 ± 0.4115
pull
Entries 98
Mean 386.3
Std Dev 0
pull1D
Entries 98
Mean 0.01786
Std Dev 0.8679

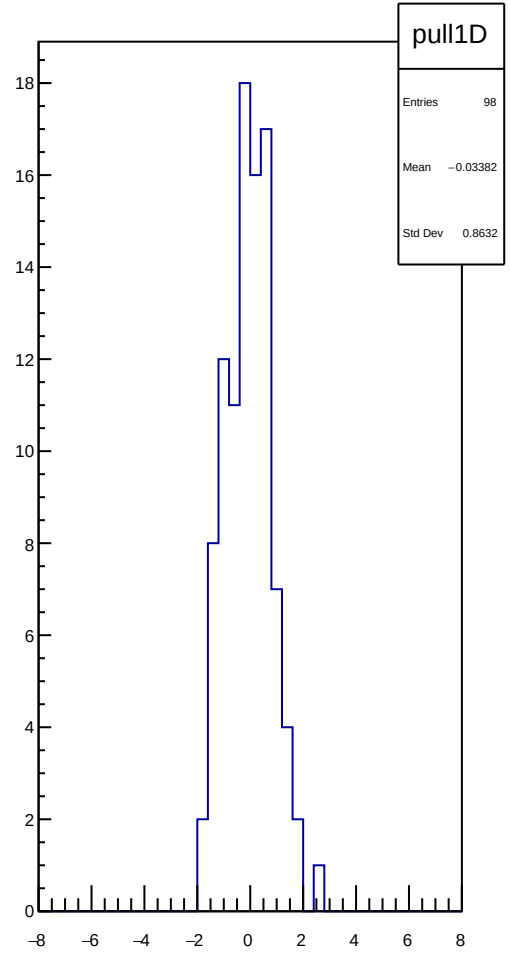

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.041e+05 / 97
p0 394.6 ± 0.291
700
600
500
400
300

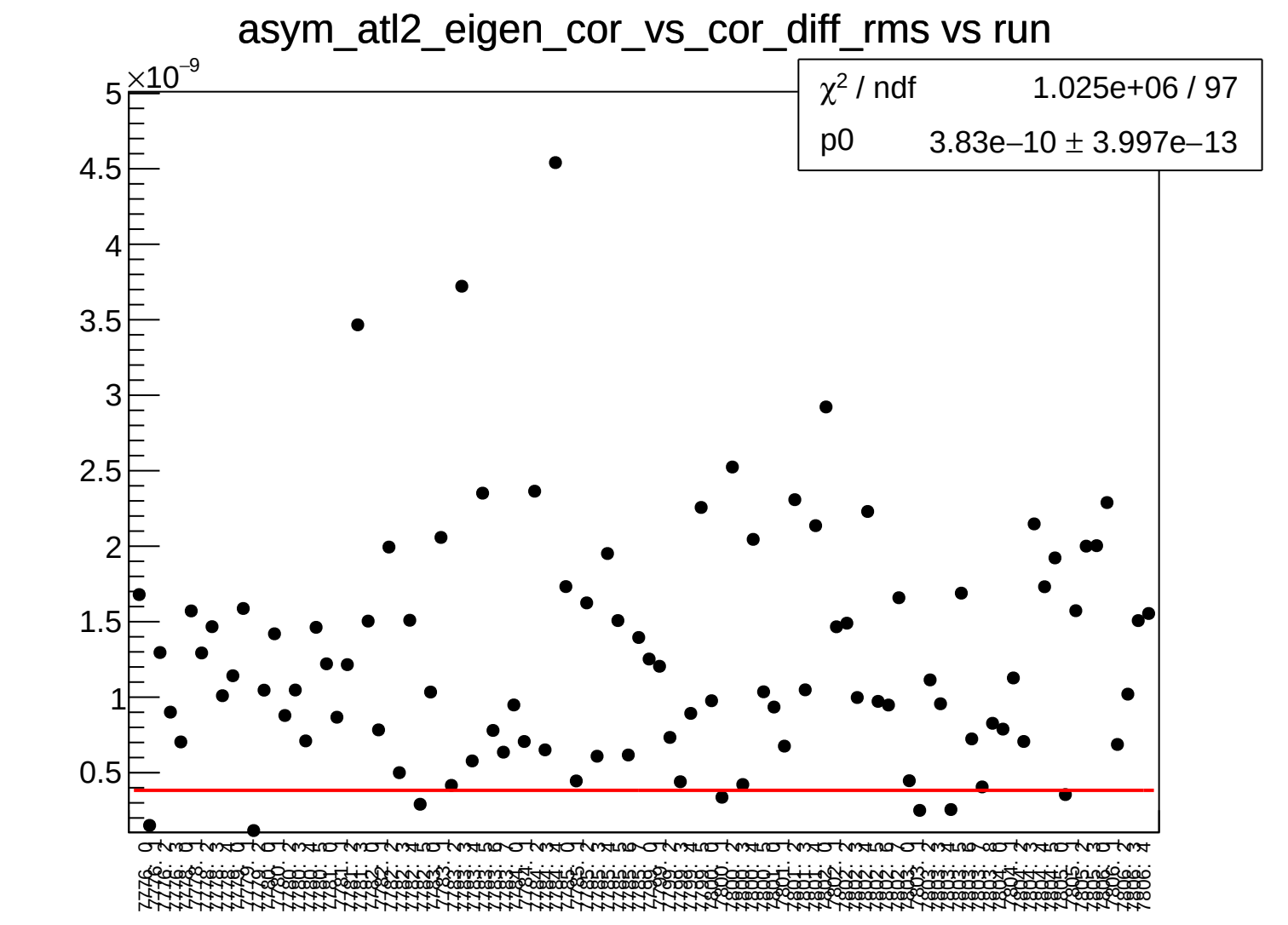

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.86 / 97
p0 −0.3578 ± 0.4115
pull
Entries 98
Mean 386.3
Std Dev 0

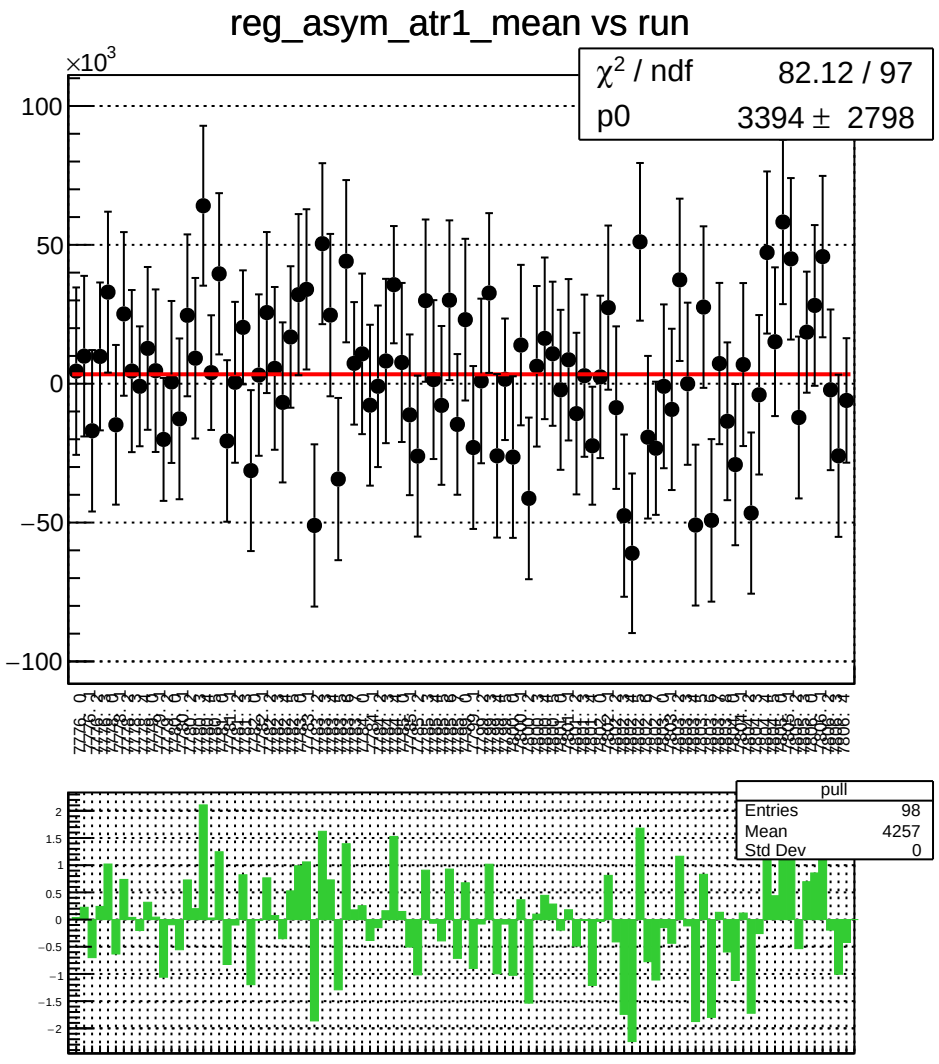

pull1D
Entries 98
Mean 0.01786
Std Dev 0.8679

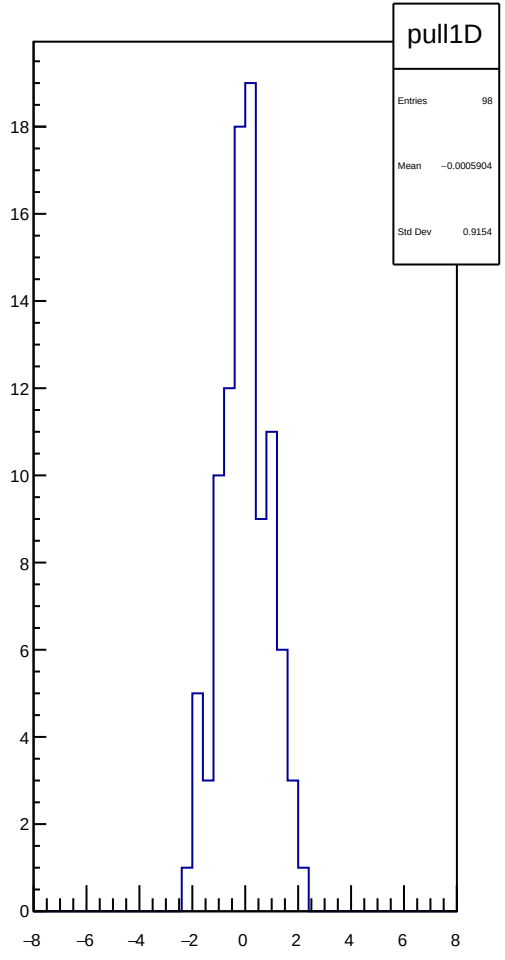

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.041e+05 / 97
p0 394.6 ± 0.291
700
600
500
400
300

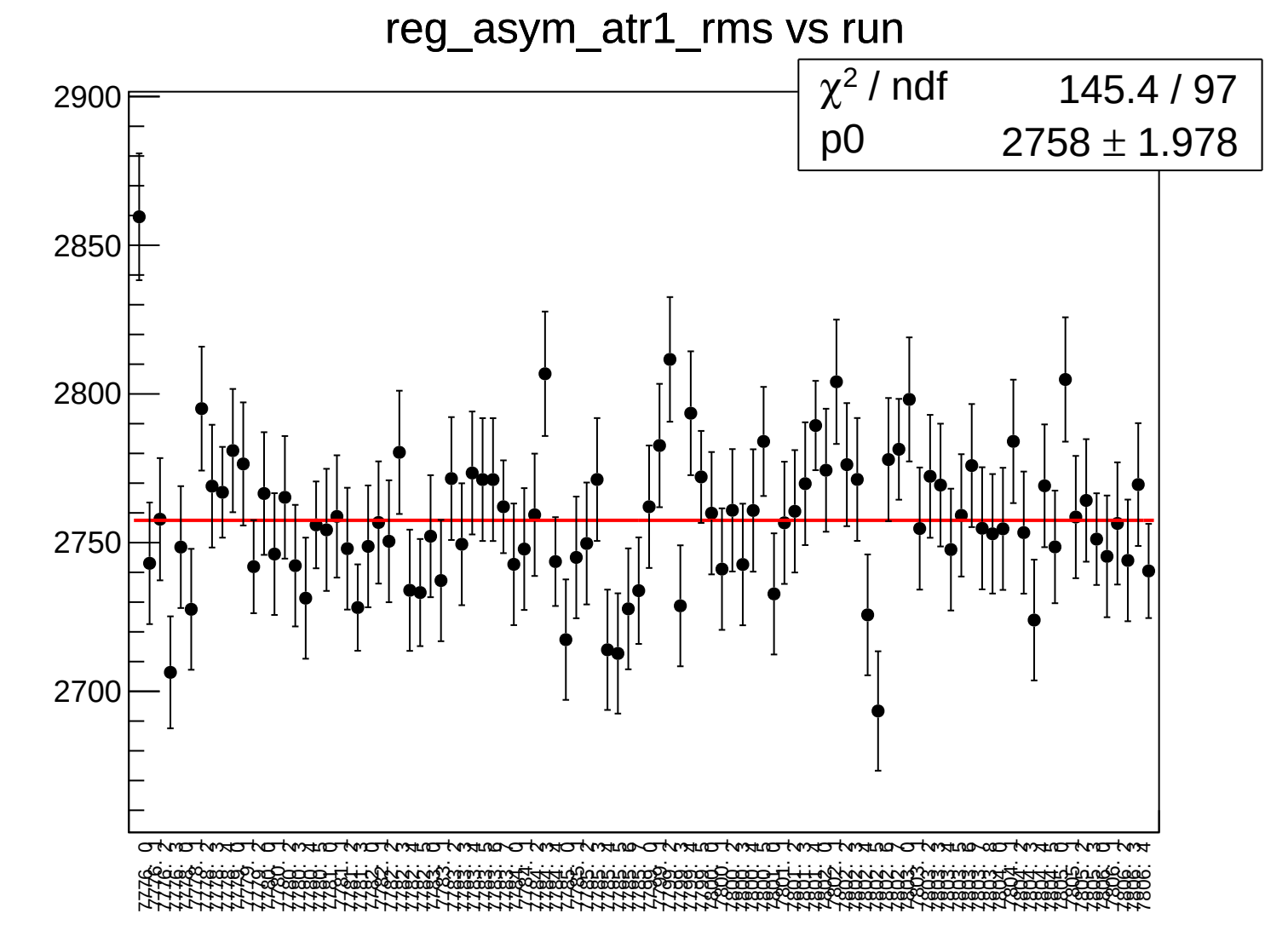

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 73.13 / 97
p0 1.262e−13 ± 5.653e−13
pull
Entries 98
Mean −39.3
Std Dev 0

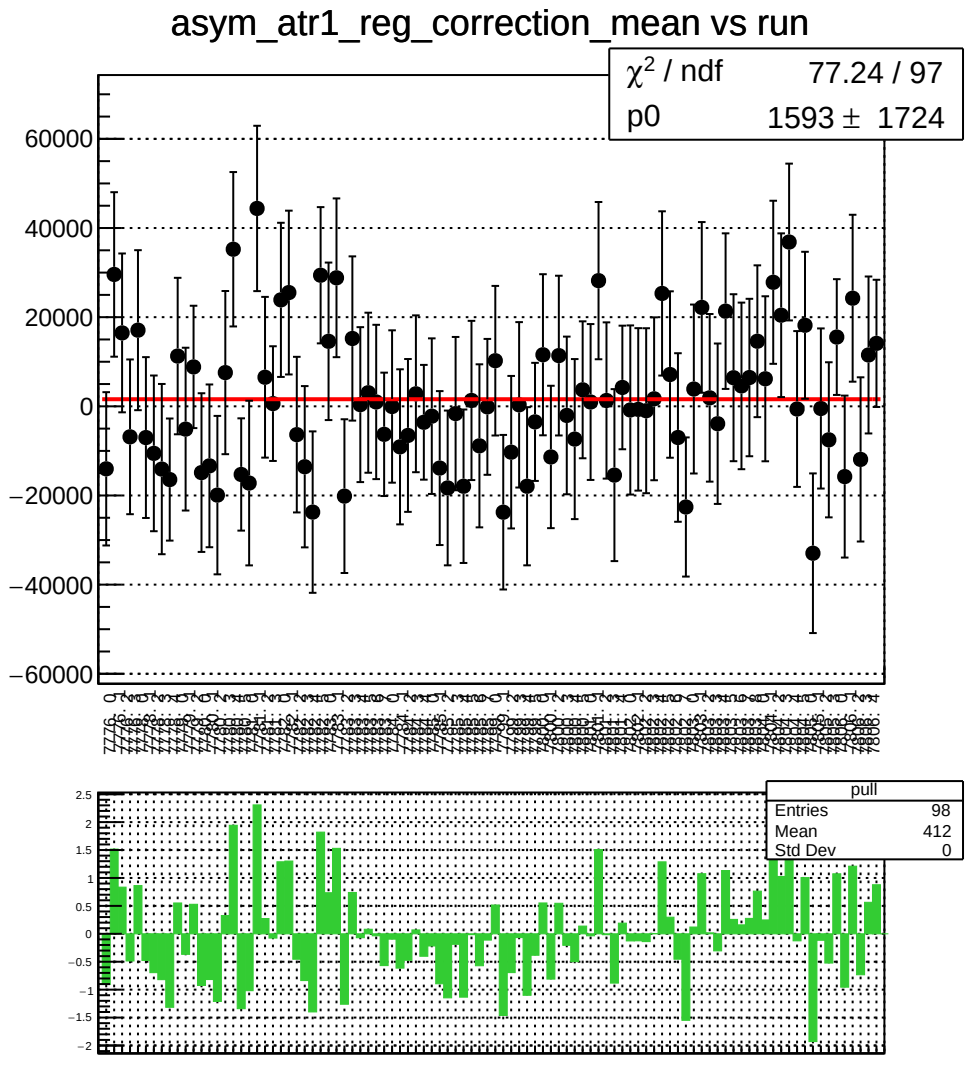

pull1D
Entries 98
Mean −0.03382
Std Dev 0.8632

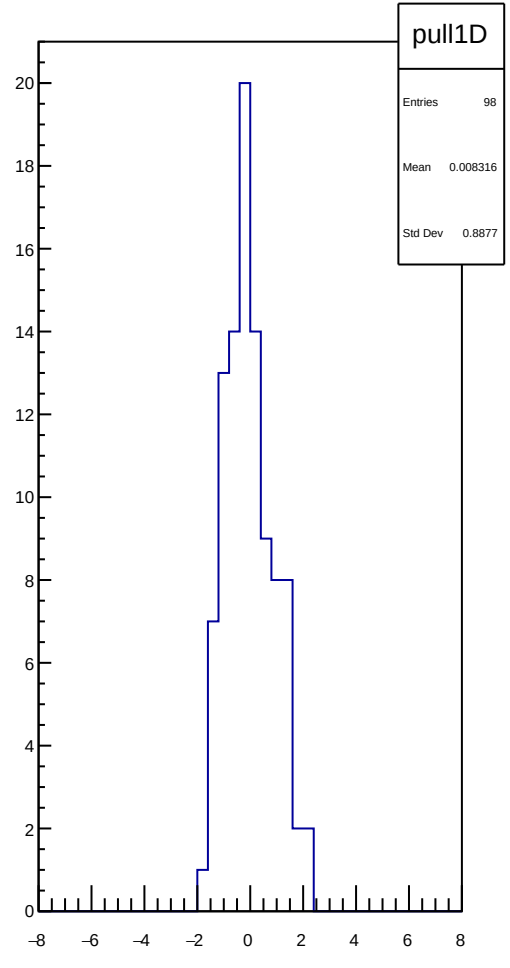

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
χ² / ndf 1.025e+06 / 97
p0 3.83e−10 ± 3.997e−13

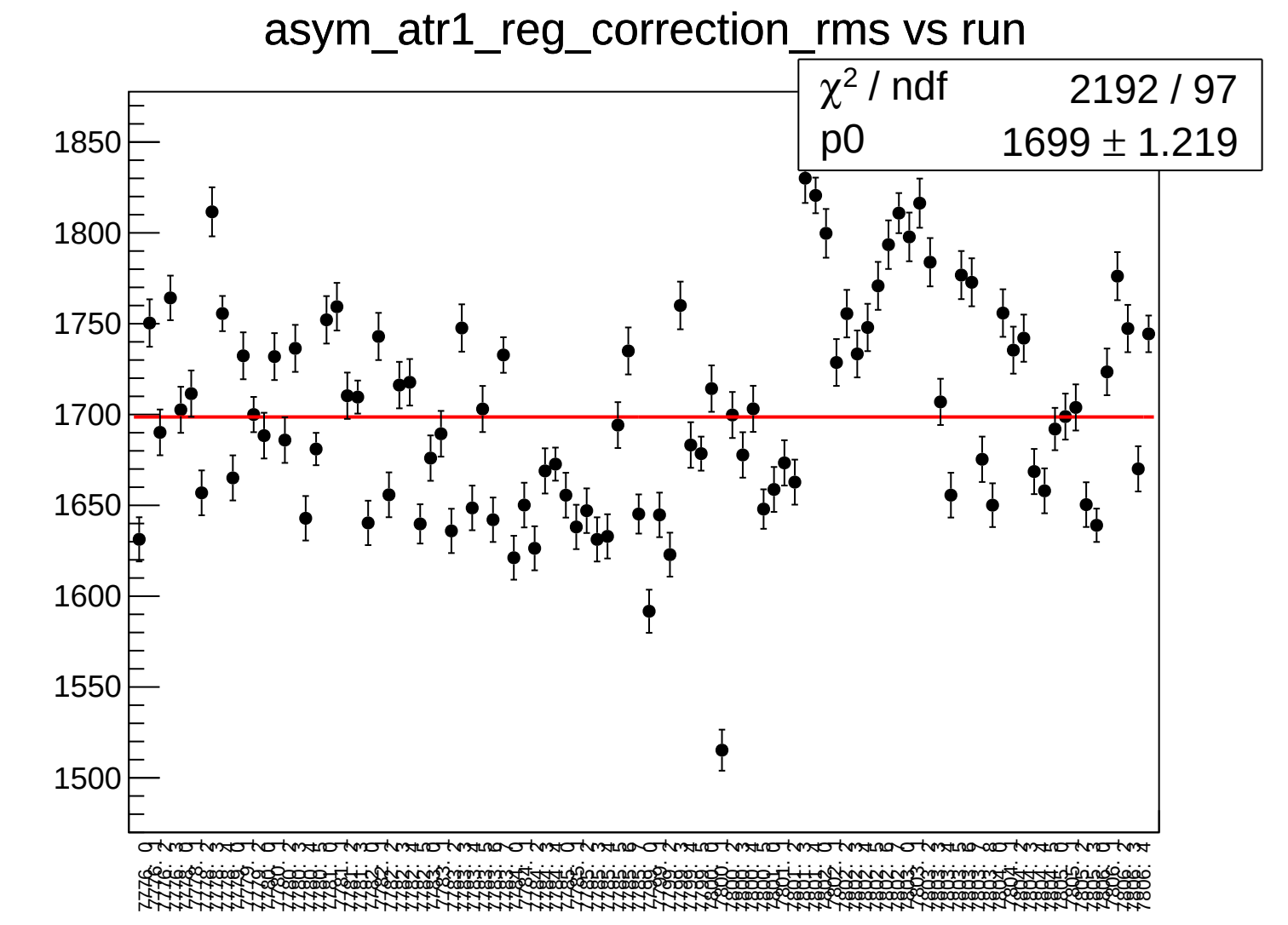

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 82.12 / 97
p0 3394 ± 2798
100
50
0
−50
−100
pull
Entries 98
Mean 4257
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

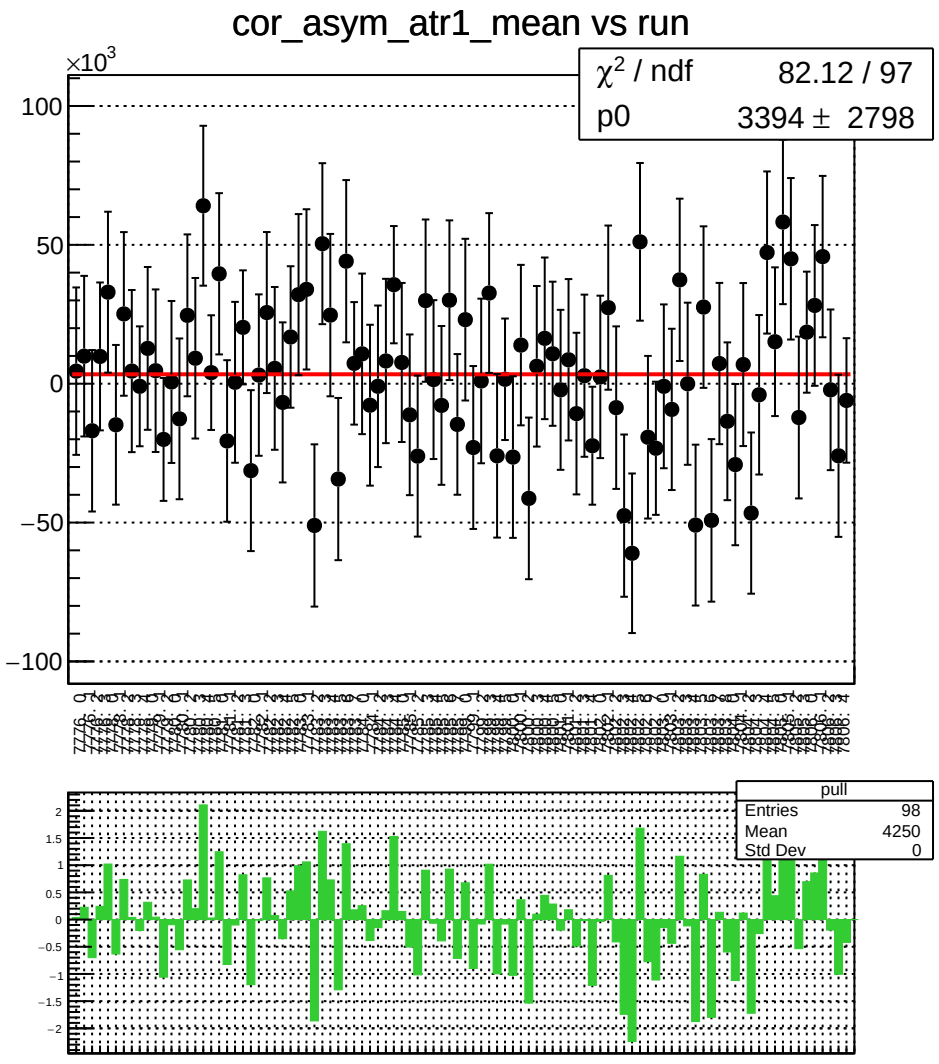

pull1D
Entries 98
Mean −0.0005904
Std Dev 0.9154
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

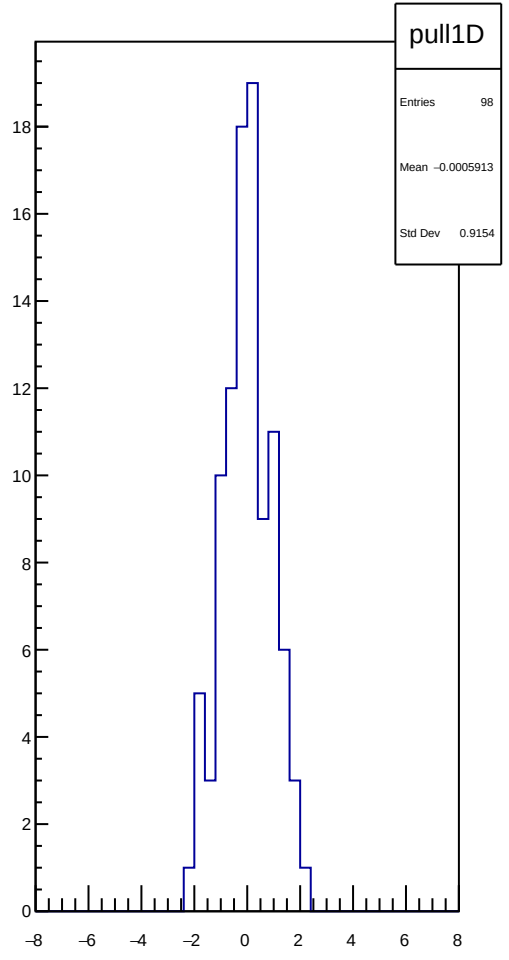

reg_asym_atr1_rms vs run
χ^2 / ndf 145.4 / 97
p0 2758 ± 1.978
2900
2850
2800
2750
2700

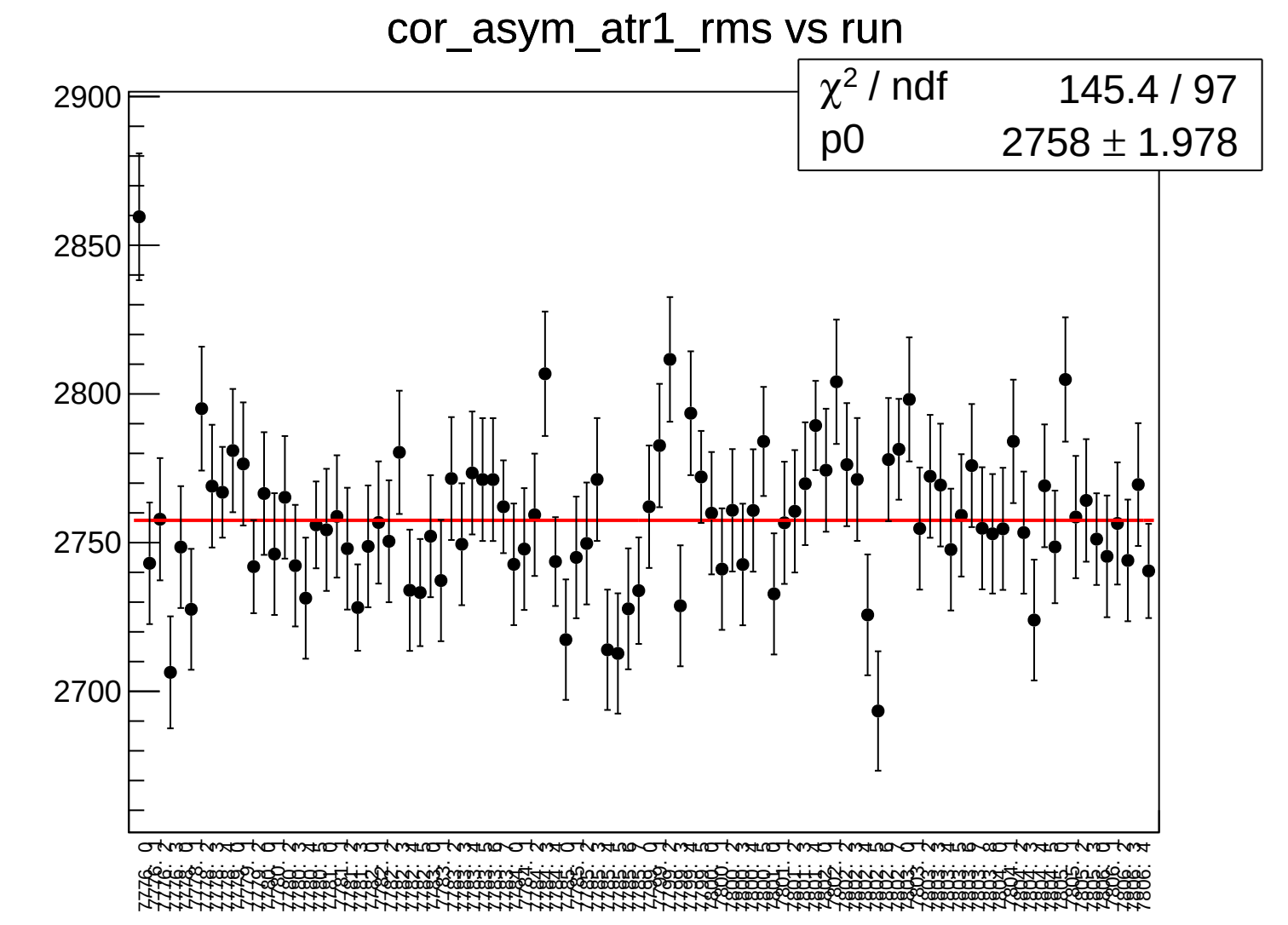

asym_atr1_reg_correction_mean vs run
χ² / ndf 77.24 / 97
p0 1593 ± 1724
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 412
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

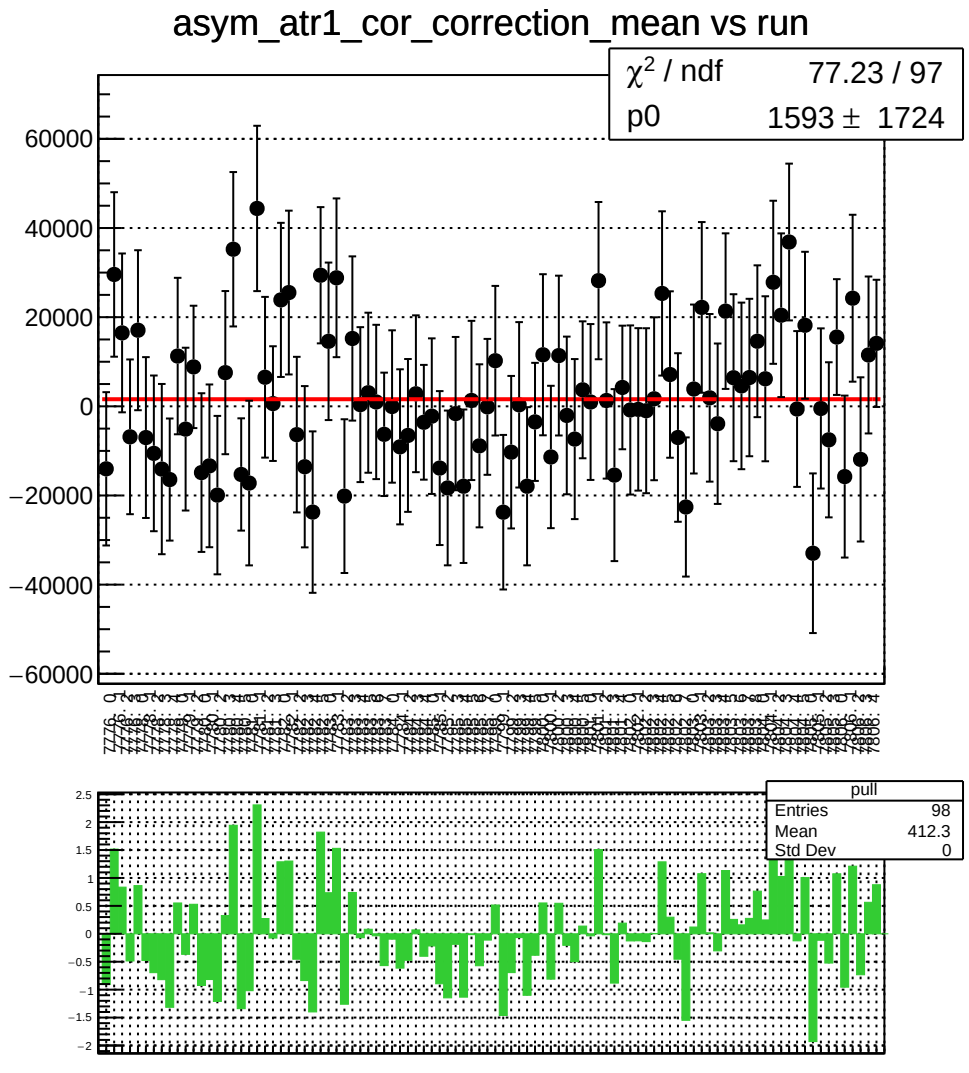

pull1D
Entries 98
Mean 0.008316
Std Dev 0.8877
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

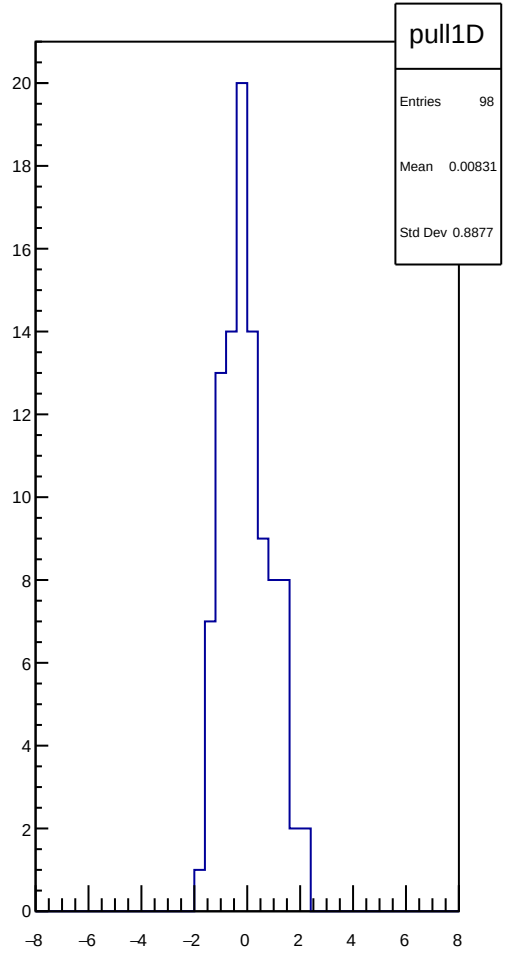

asym_atr1_reg_correction_rms vs run
χ² / ndf 2192 / 97
p0 1699 ± 1.219
1850
1800
1750
1700
1650
1600
1550
1500

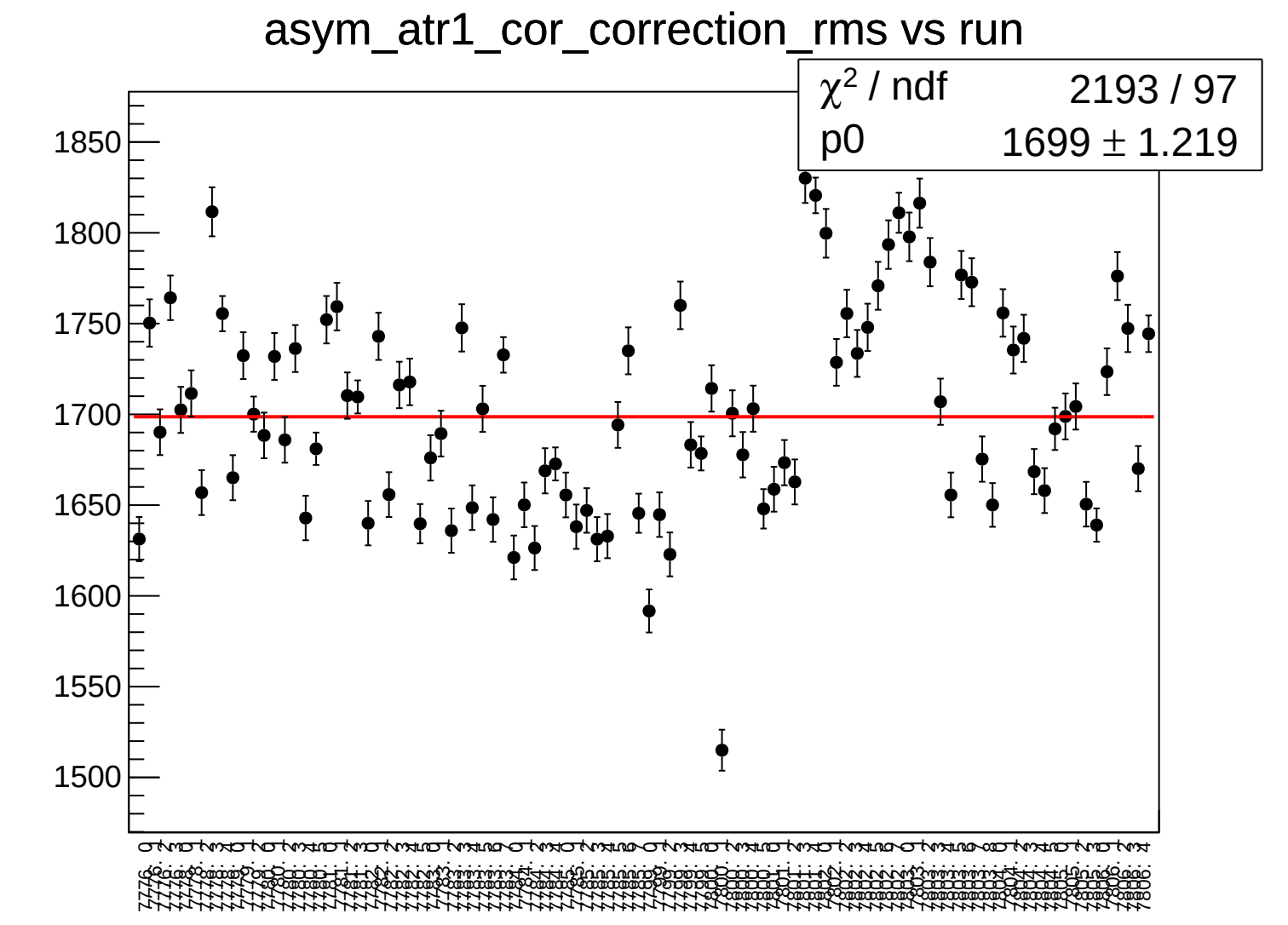

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 82.12 / 97
p0 3394 ± 2798
100
50
0
−50
−100
pull
Entries 98
Mean 4250
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

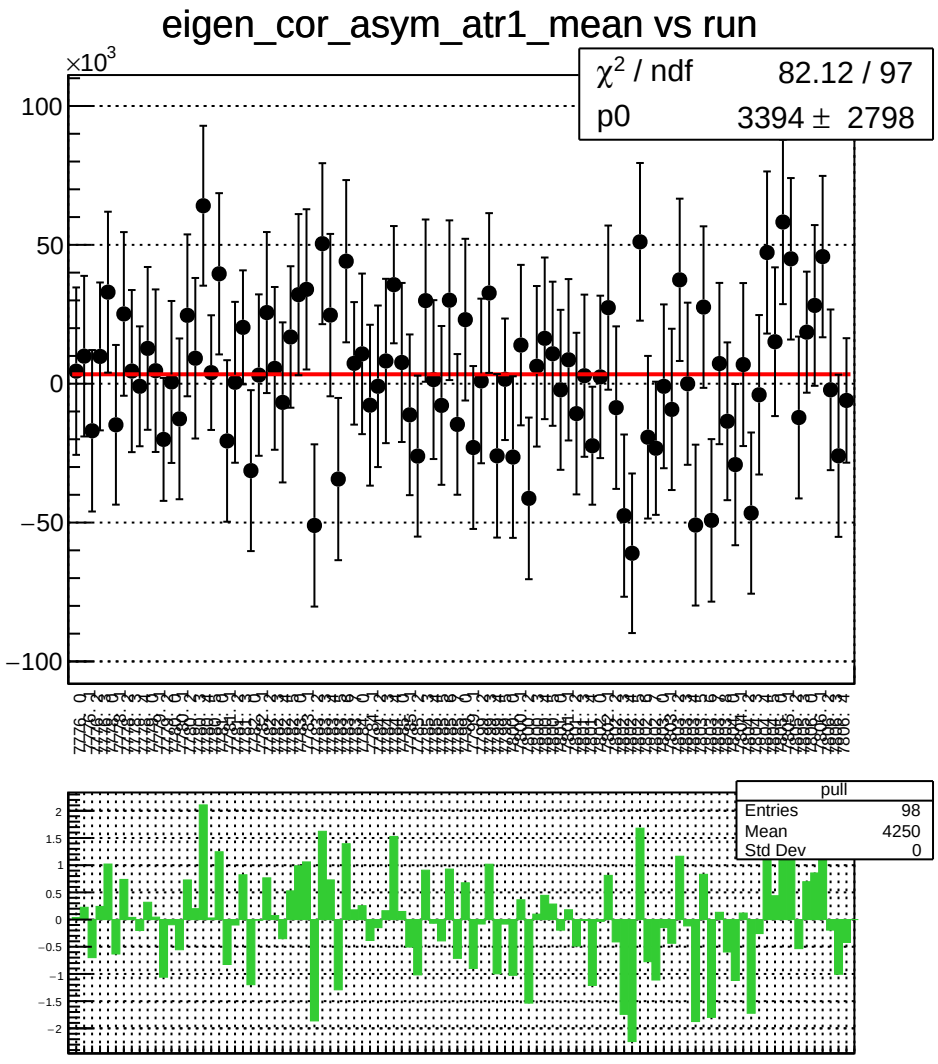

pull1D
Entries 98
Mean −0.0005913
Std Dev 0.9154
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

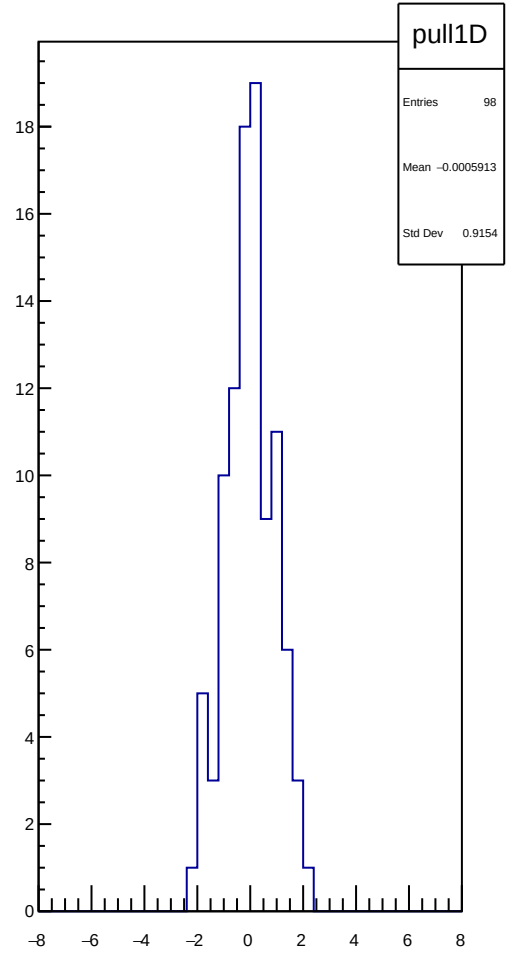

cor_asym_atr1_rms vs run
χ^2 / ndf 145.4 / 97
p0 2758 ± 1.978
2900
2850
2800
2750
2700

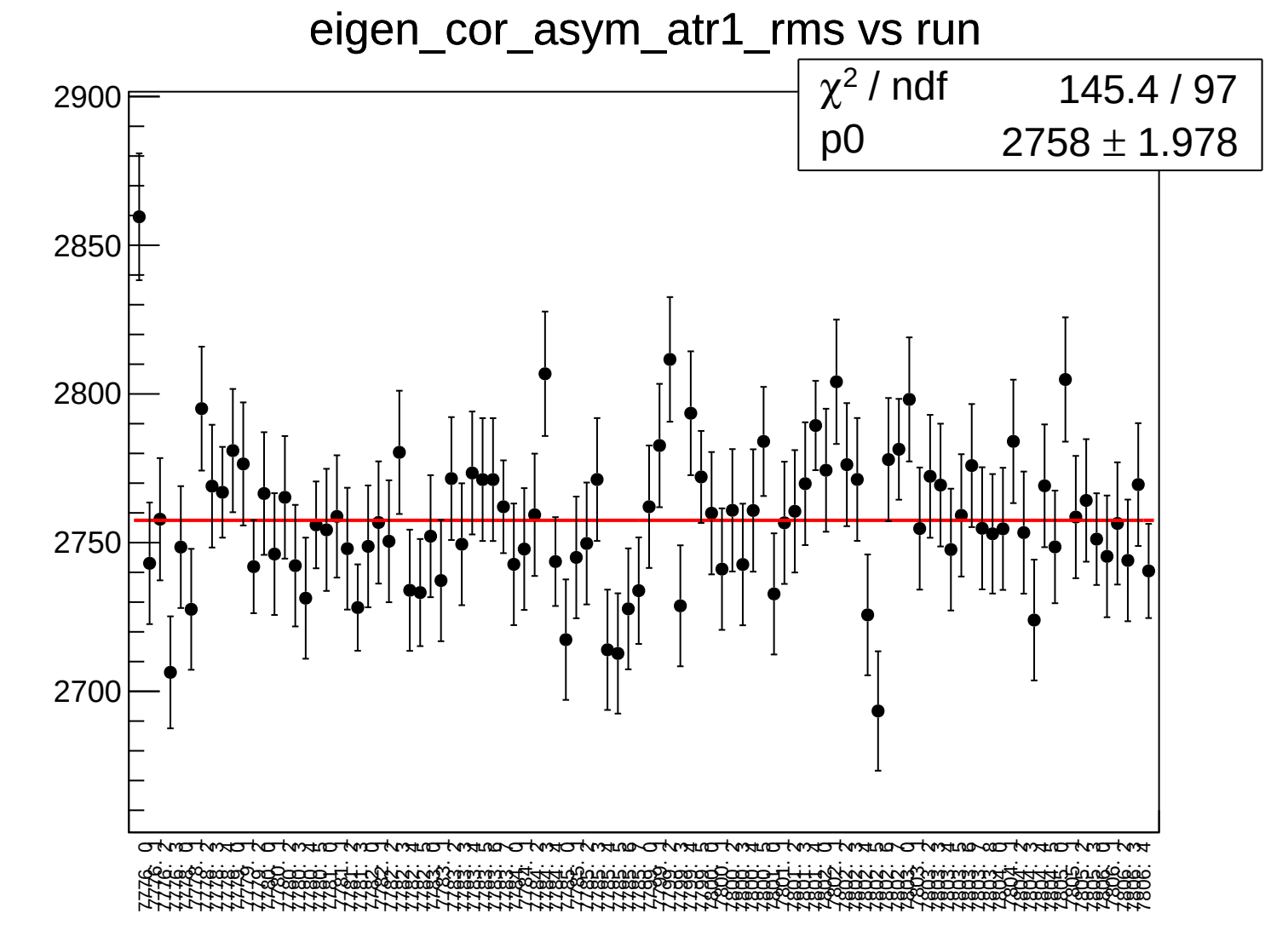

asym_atr1_cor_correction_mean vs run
χ² / ndf 77.23 / 97
p0 1593 ± 1724
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 412.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

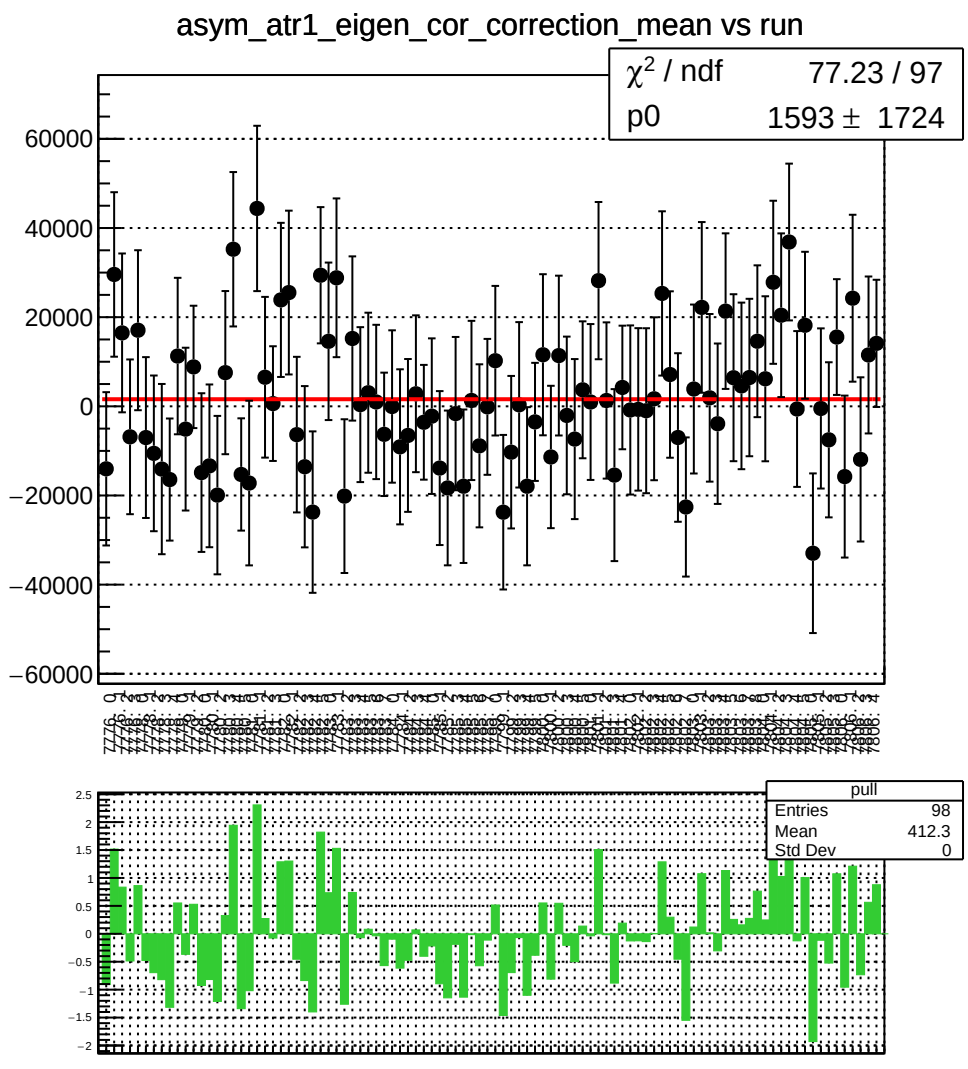

pull1D
Entries 98
Mean 0.00831
Std Dev 0.8877
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

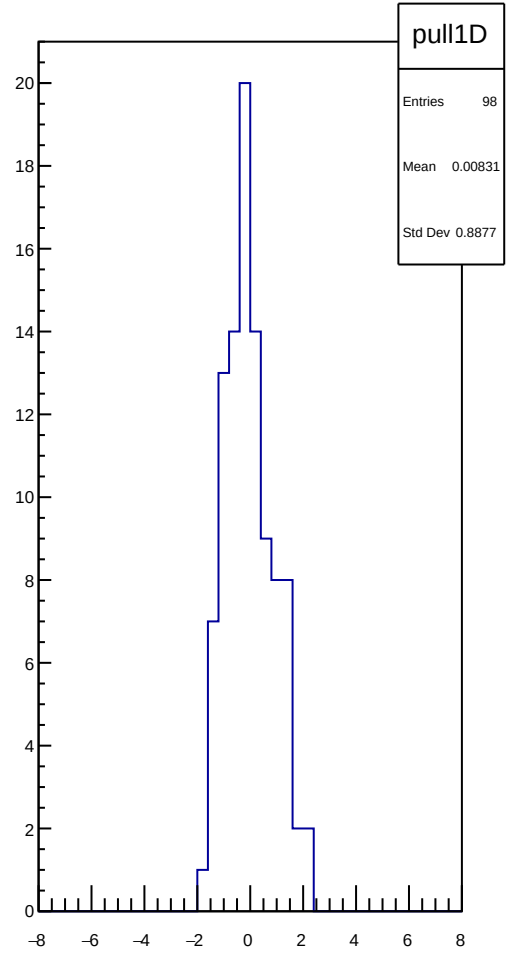

asym_atr1_cor_correction_rms vs run
χ² / ndf 2193 / 97
p0 1699 ± 1.219
1850
1800
1750
1700
1650
1600
1550
1500

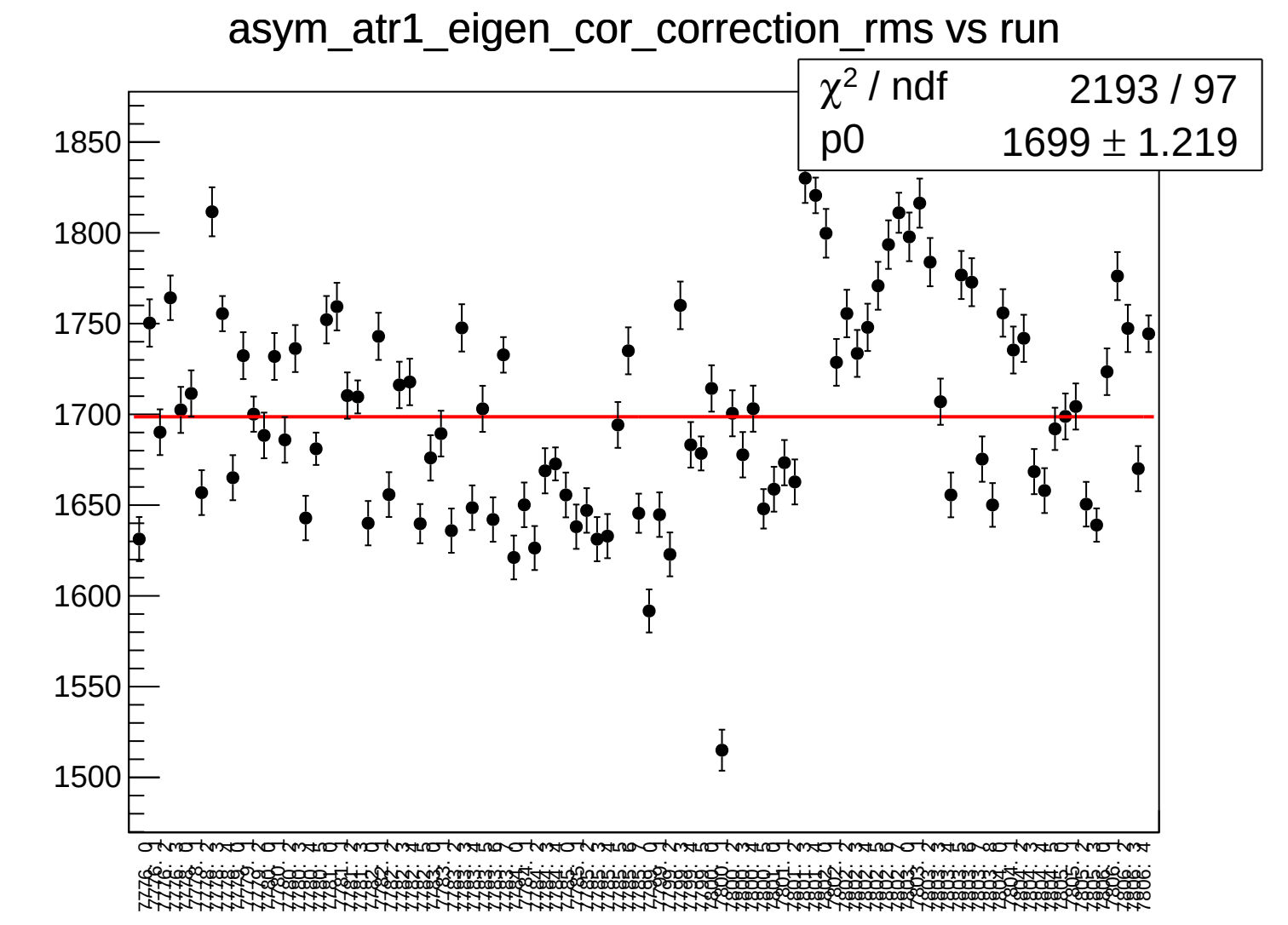

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 82.12 / 97
p0 3394 ± 2798
100
50
0
−50
−100
pull
Entries 98
Mean 4250
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

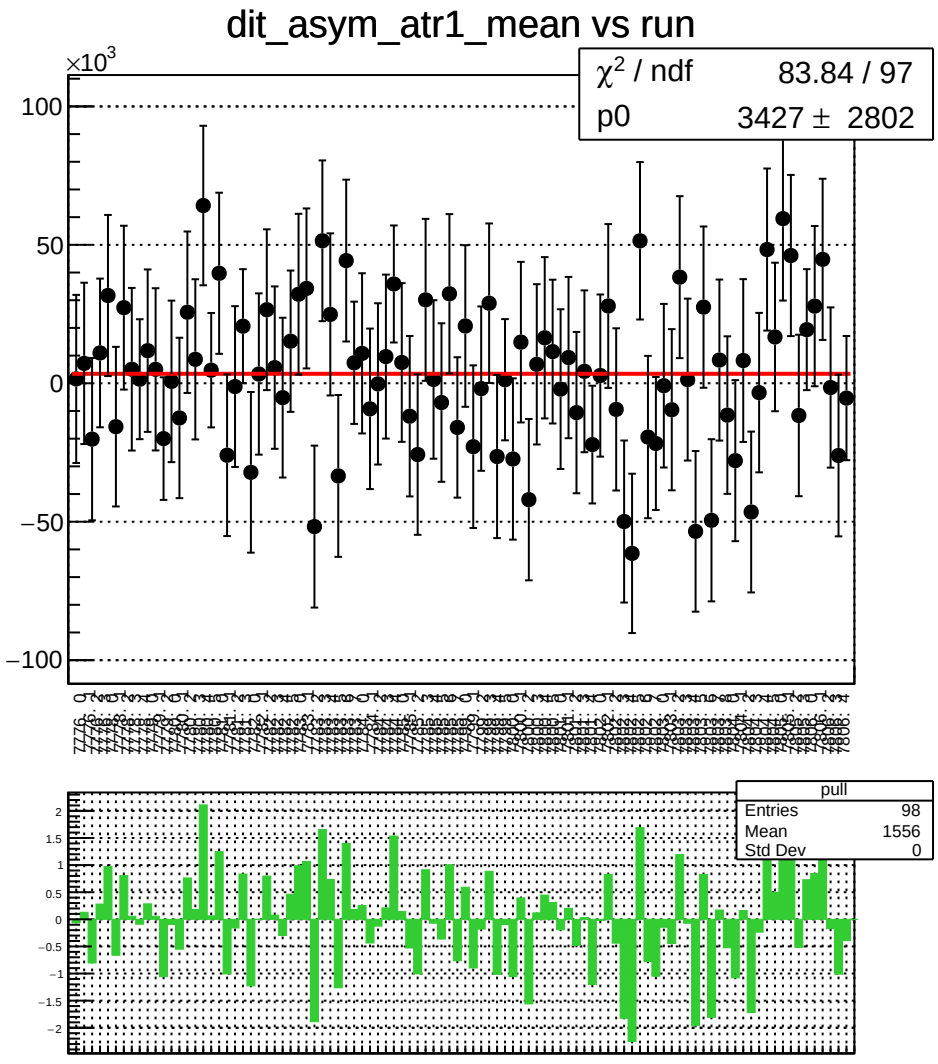

pull1D
Entries 98
Mean −0.0005913
Std Dev 0.9154
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

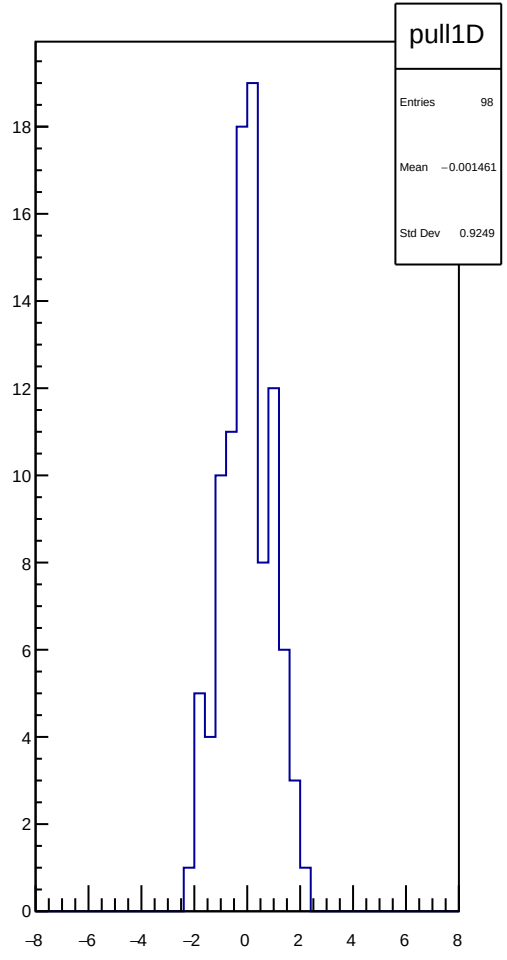

eigen_cor_asym_atr1_rms vs run
χ^2 / ndf 145.4 / 97
p0 2758 ± 1.978
2900
2850
2800
2750
2700

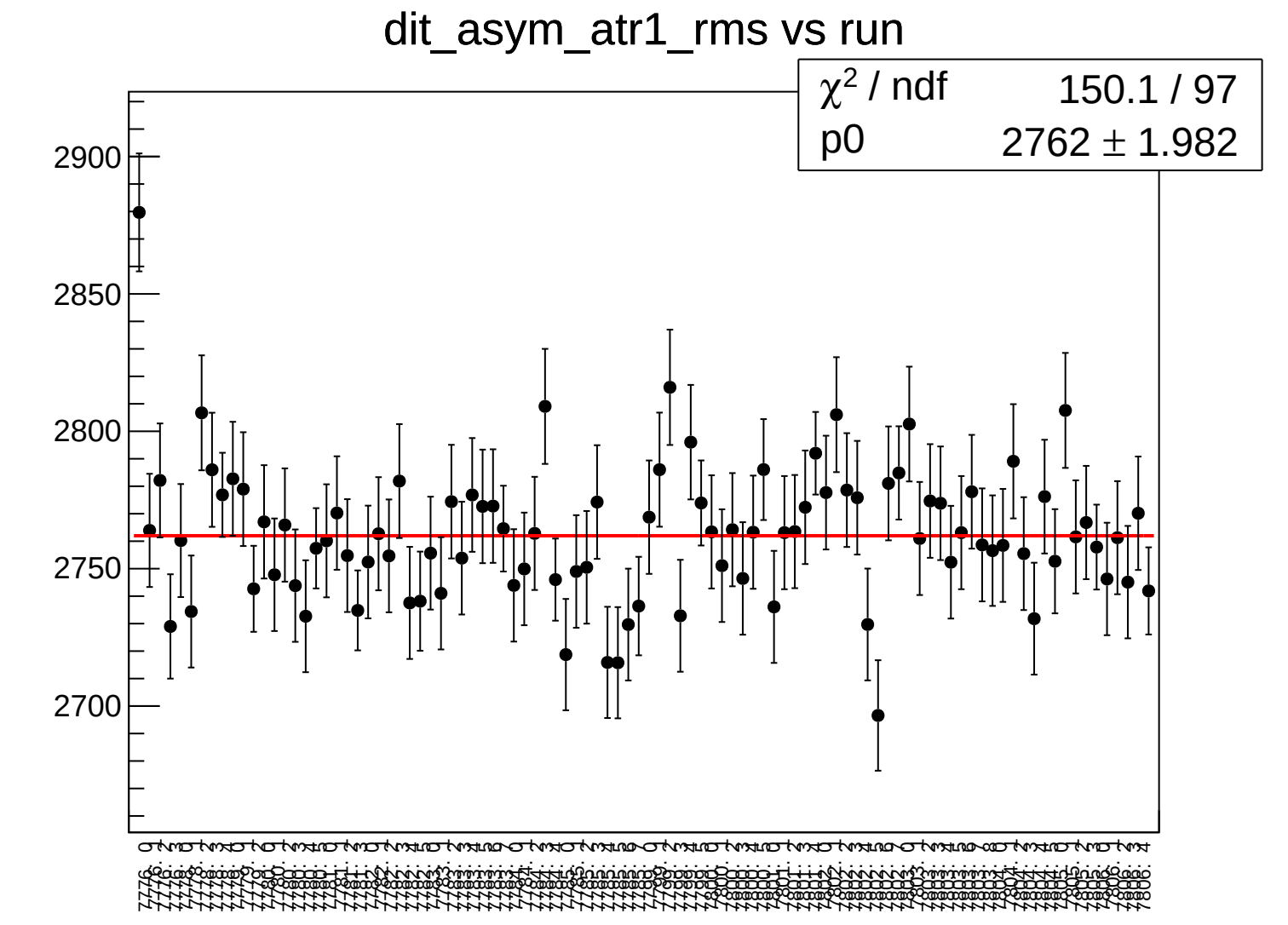

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 77.23 / 97
p0 1593 ± 1724
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 412.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

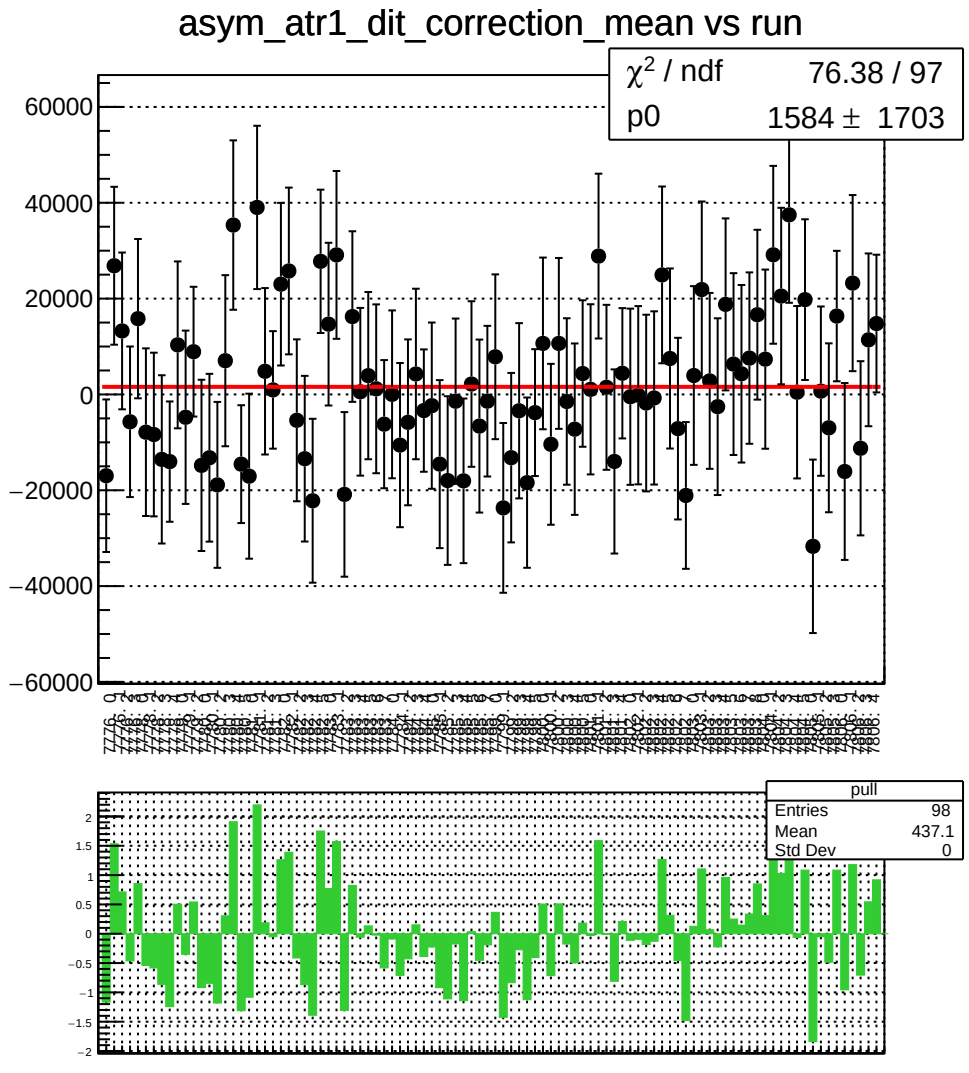

pull1D
Entries 98
Mean 0.00831
Std Dev 0.8877
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

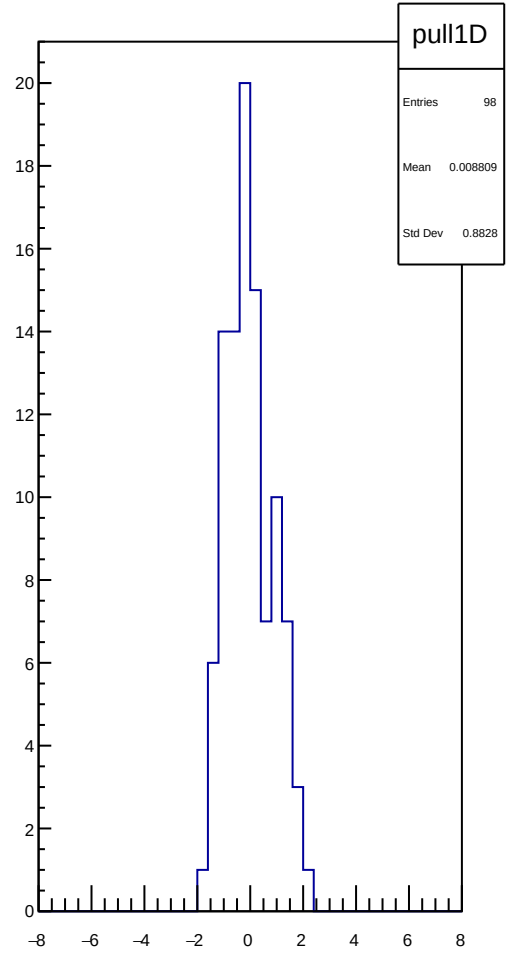

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2193 / 97
p0 1699 ± 1.219
1850
1800
1750
1700
1650
1600
1550
1500

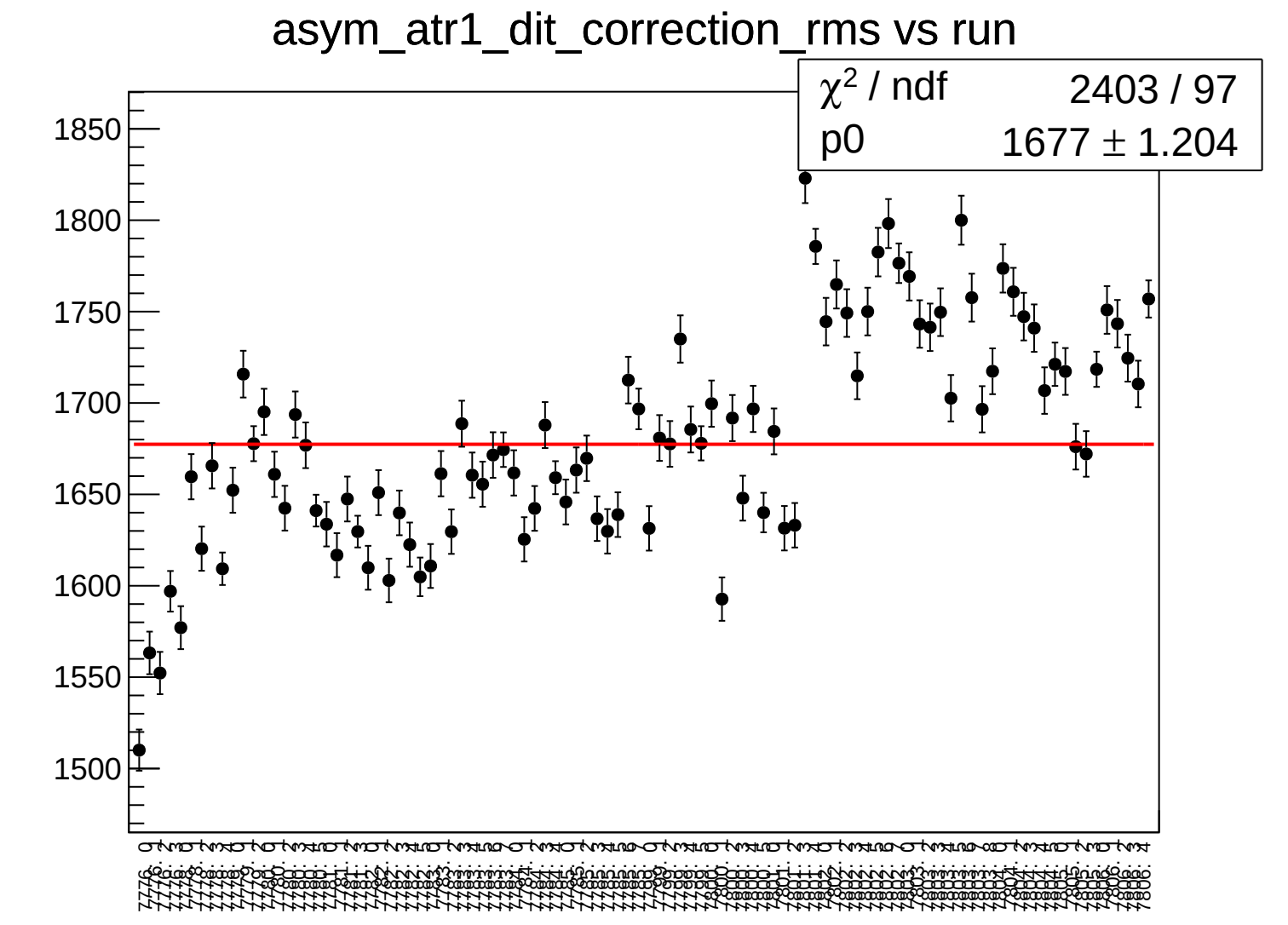

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 83.84 / 97
p0 3427 ± 2802
100
50
0
−50
−100
pull
Entries 98
Mean 1556
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

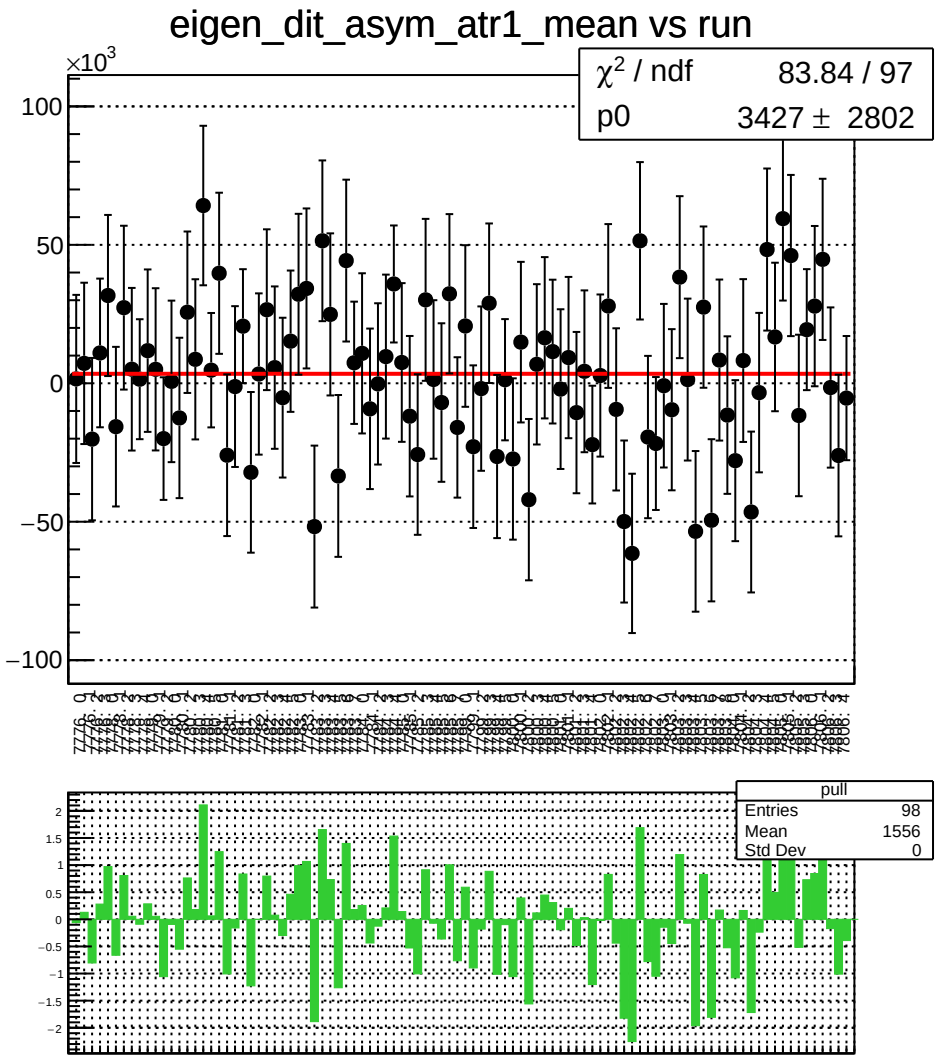

pull1D
Entries 98
Mean −0.001461
Std Dev 0.9249
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

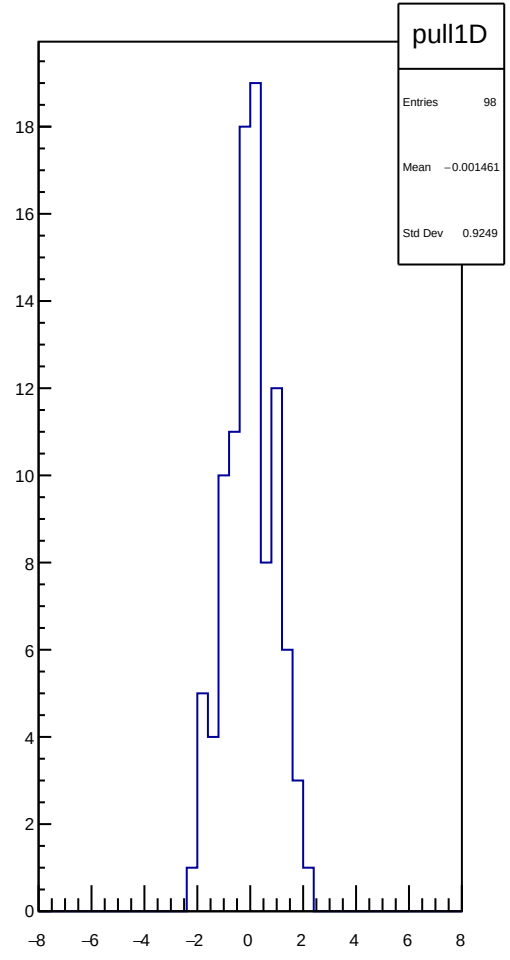

dit_asym_atr1_rms vs run
χ^2 / ndf 150.1 / 97
p0 2762 ± 1.982
2900
2850
2800
2750
2700

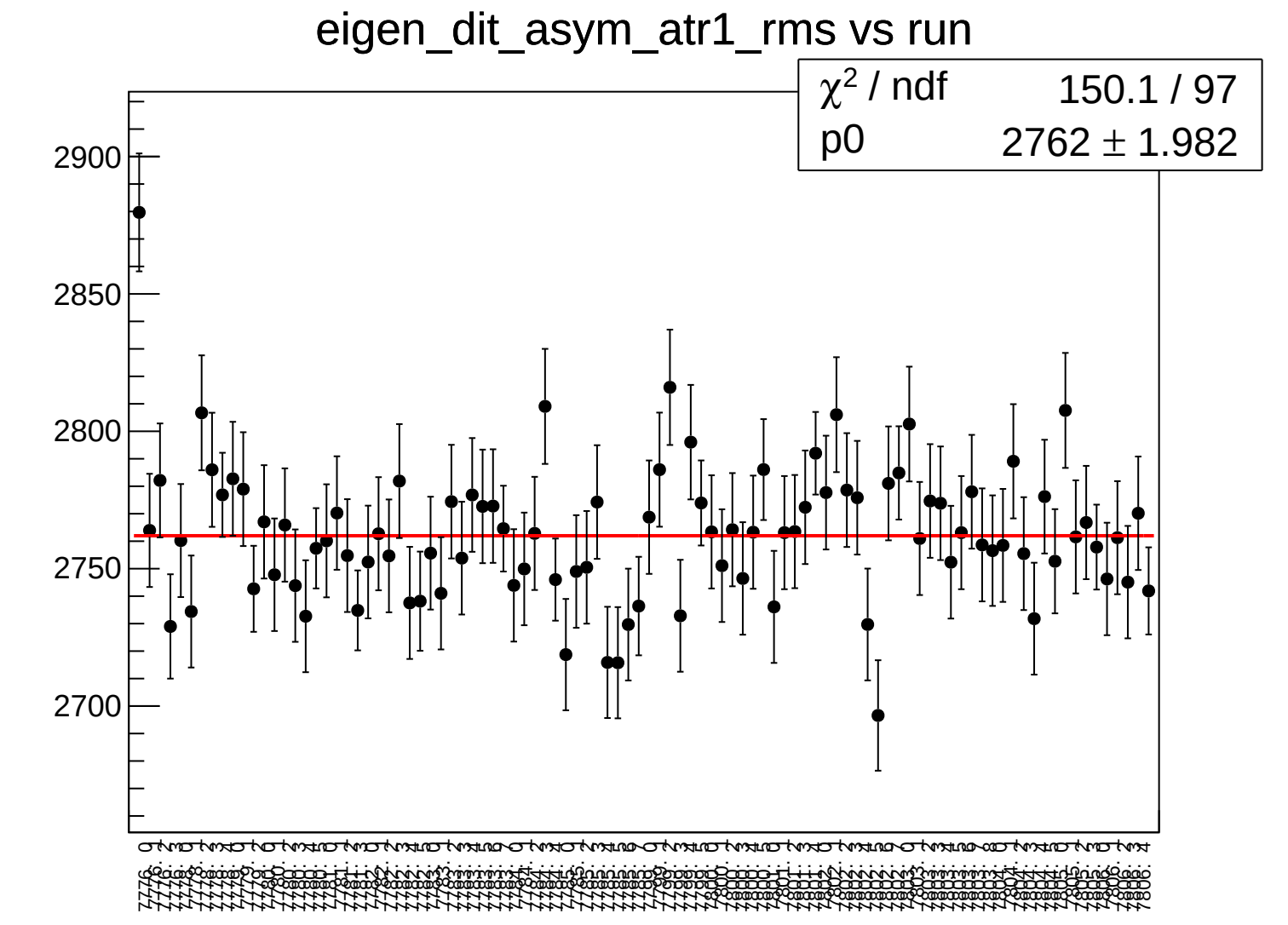

asym_atr1_dit_correction_mean vs run
χ² / ndf 76.38 / 97
p0 1584 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 437.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

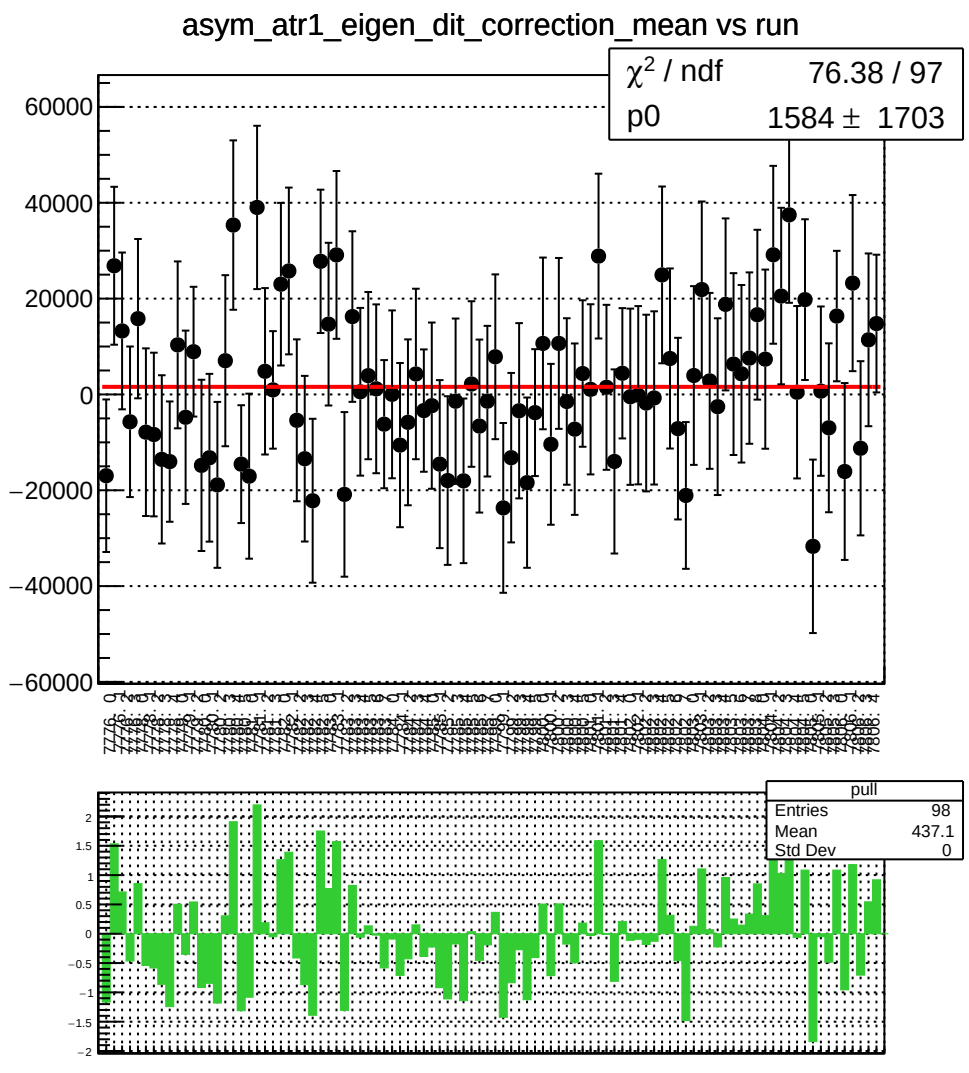

pull1D
Entries 98
Mean 0.008809
Std Dev 0.8828
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

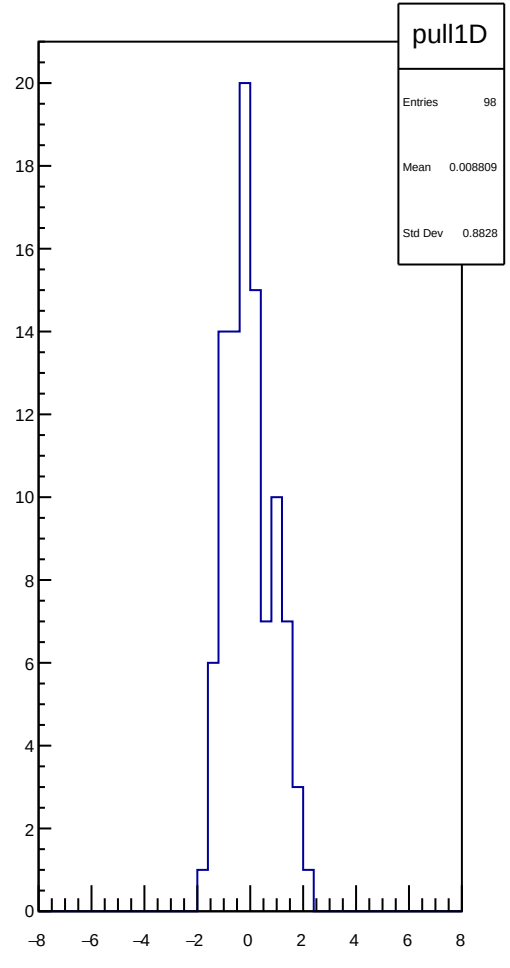

asym_atr1_dit_correction_rms vs run
χ^2 / ndf 2403 / 97
p0 1677 ± 1.204
1850
1800
1750
1700
1650
1600
1550
1500

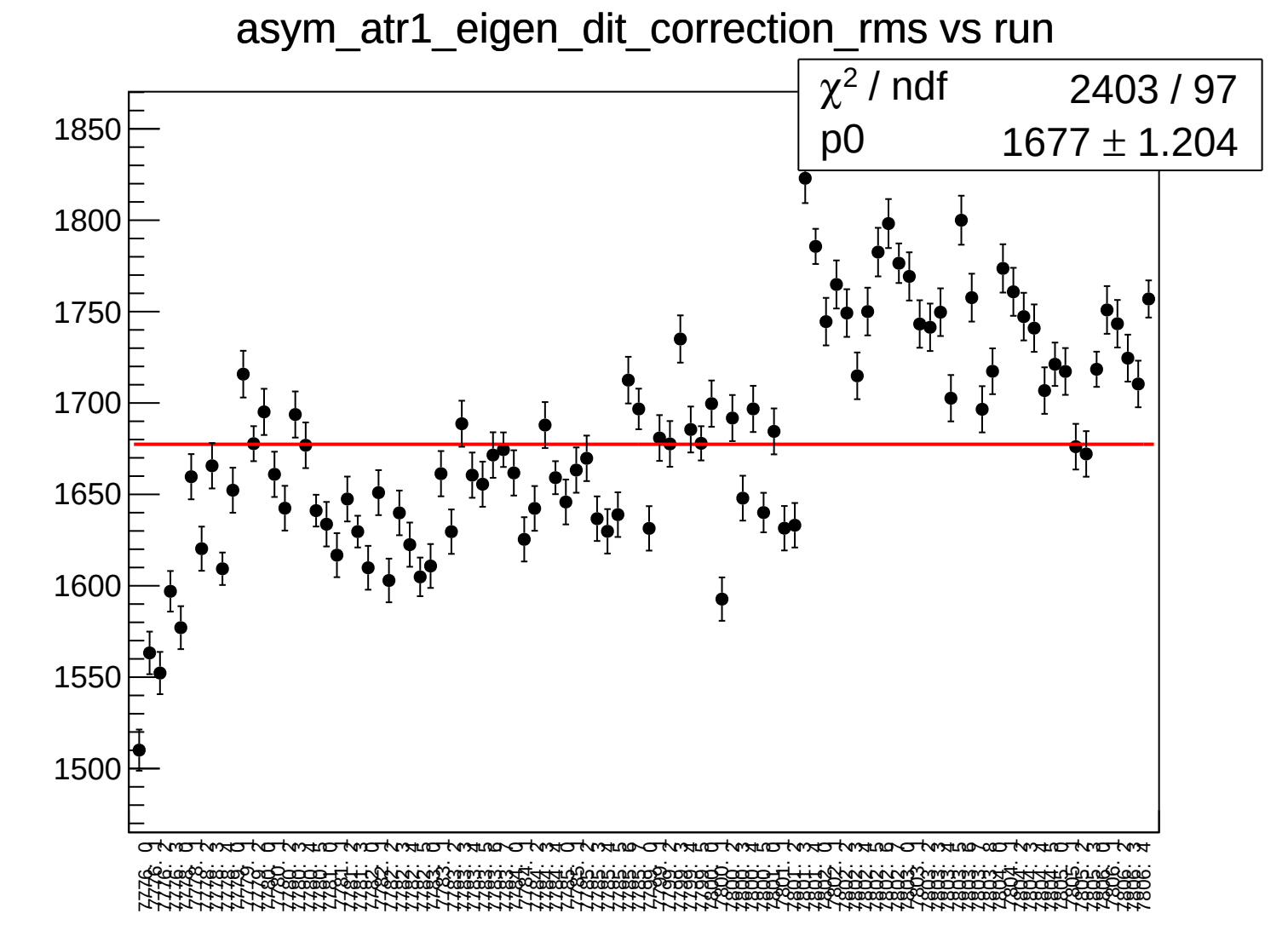

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 83.84 / 97
p0 3427 ± 2802
100
50
0
−50
−100
pull
Entries 98
Mean 1556
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

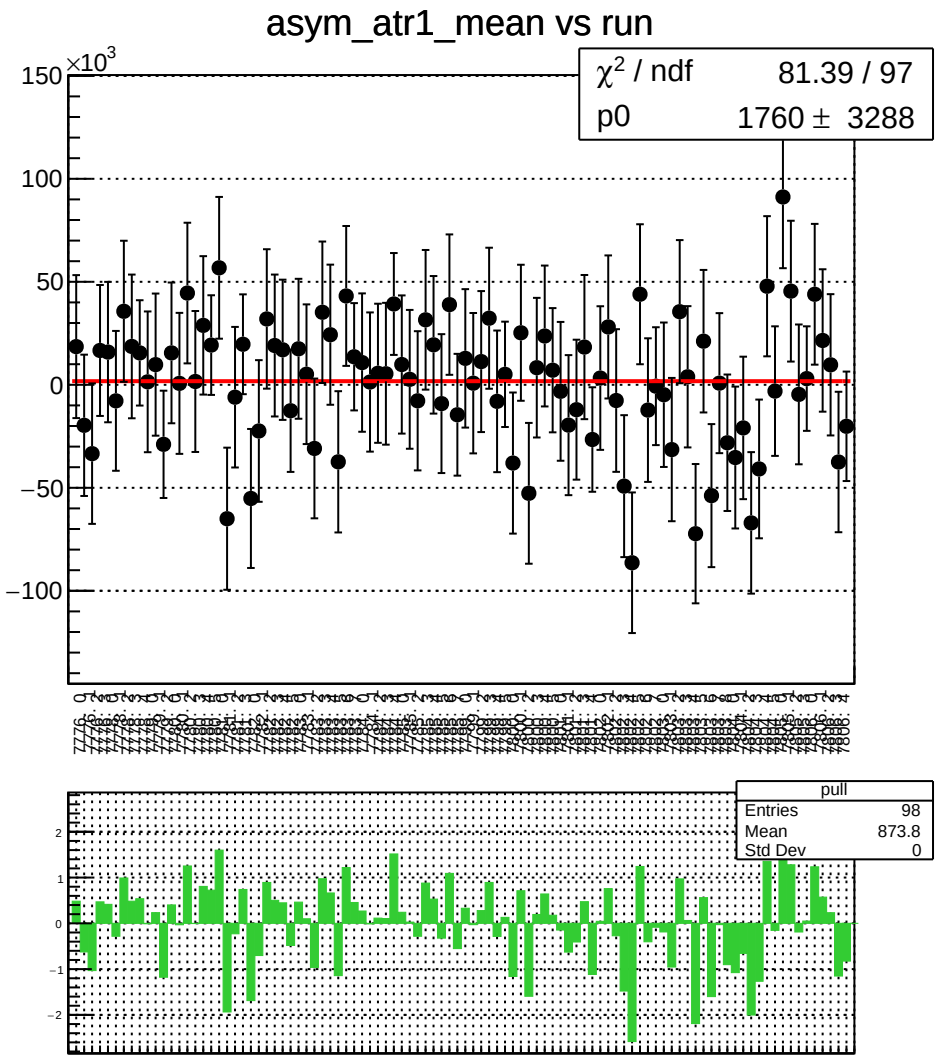

pull1D
Entries 98
Mean −0.001461
Std Dev 0.9249
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

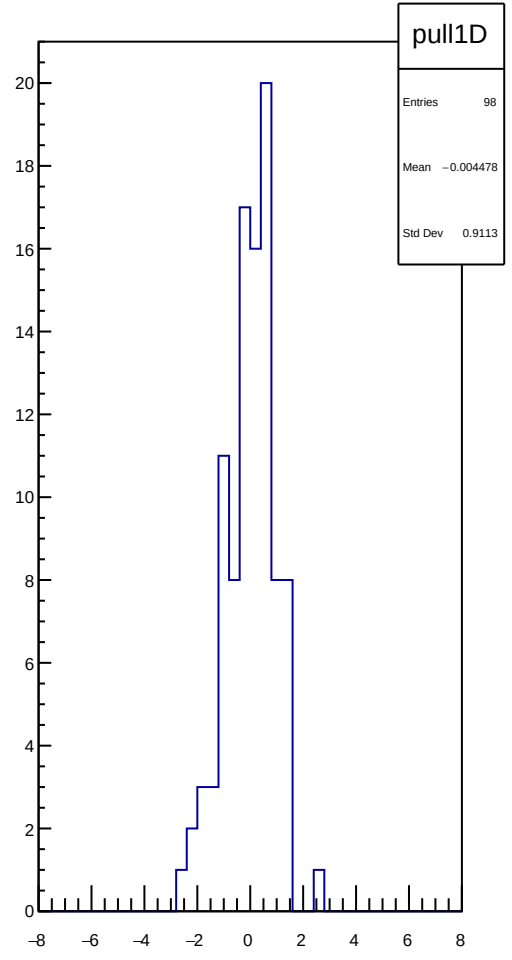

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 150.1 / 97
p0 2762 ± 1.982
2900
2850
2800
2750
2700

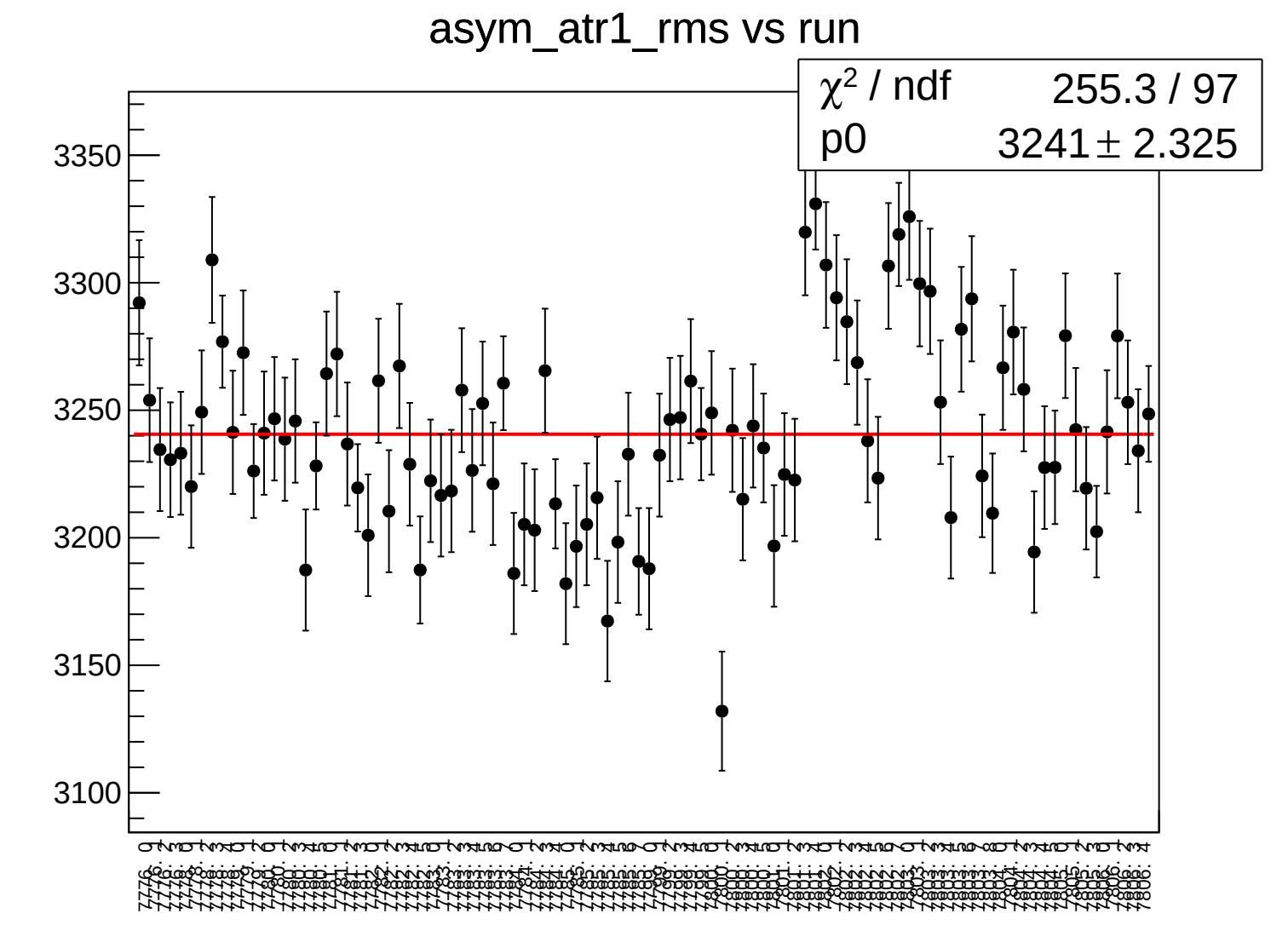

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 76.38 / 97
p0 1584 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 437.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

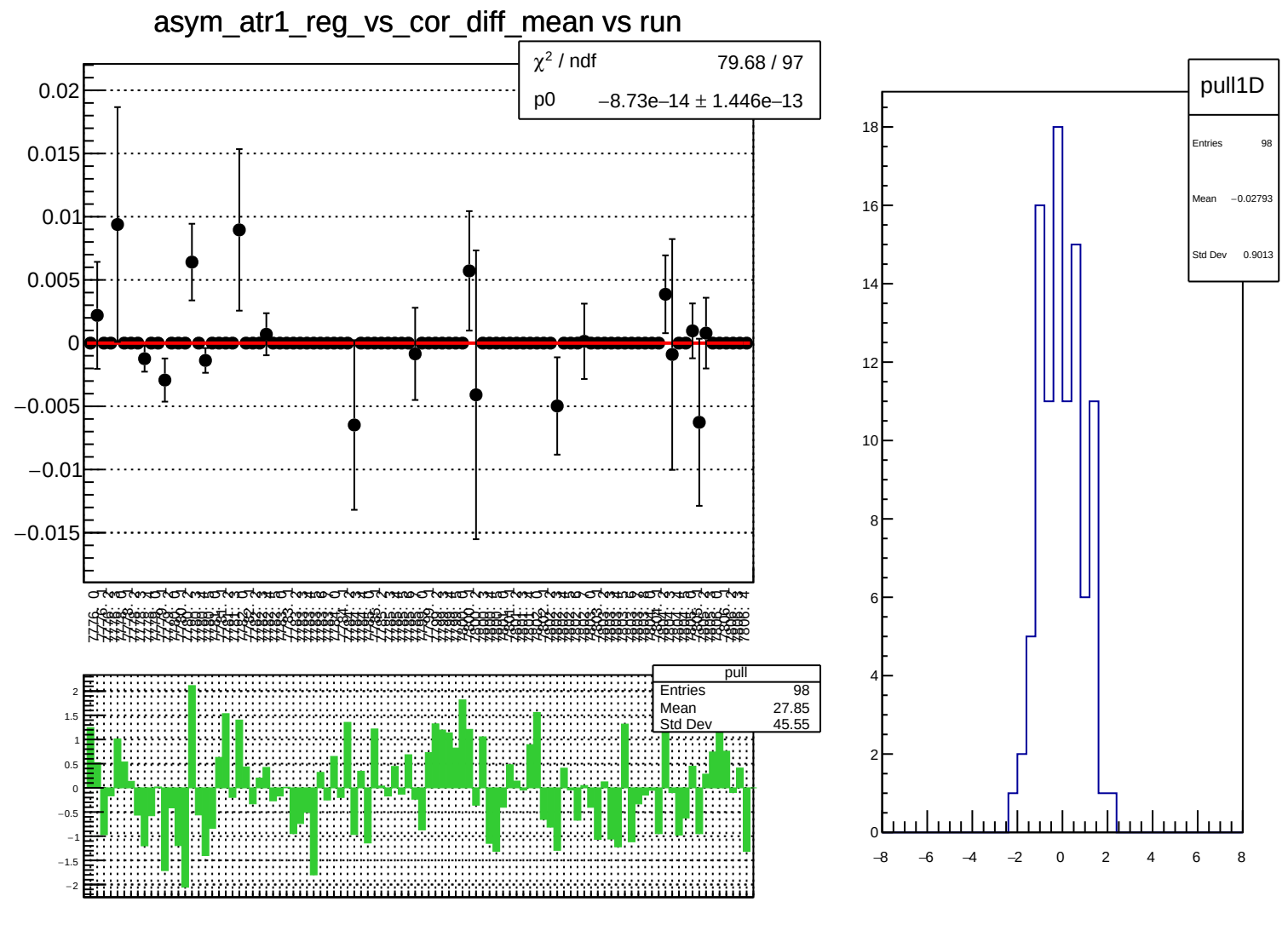

pull1D
Entries 98
Mean 0.008809
Std Dev 0.8828
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

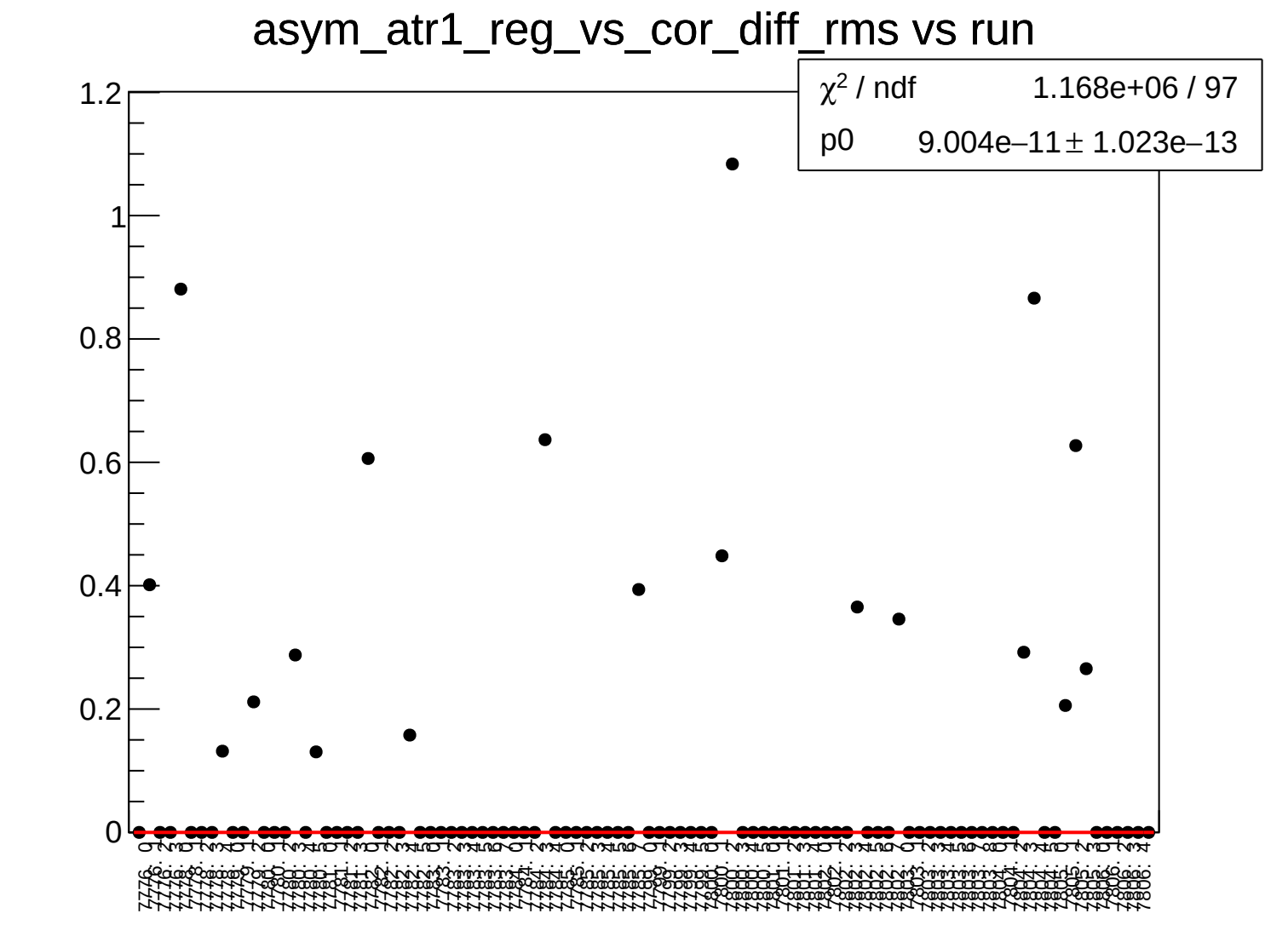

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2403 / 97
p0 1677 ± 1.204
1850
1800
1750
1700
1650
1600
1550
1500

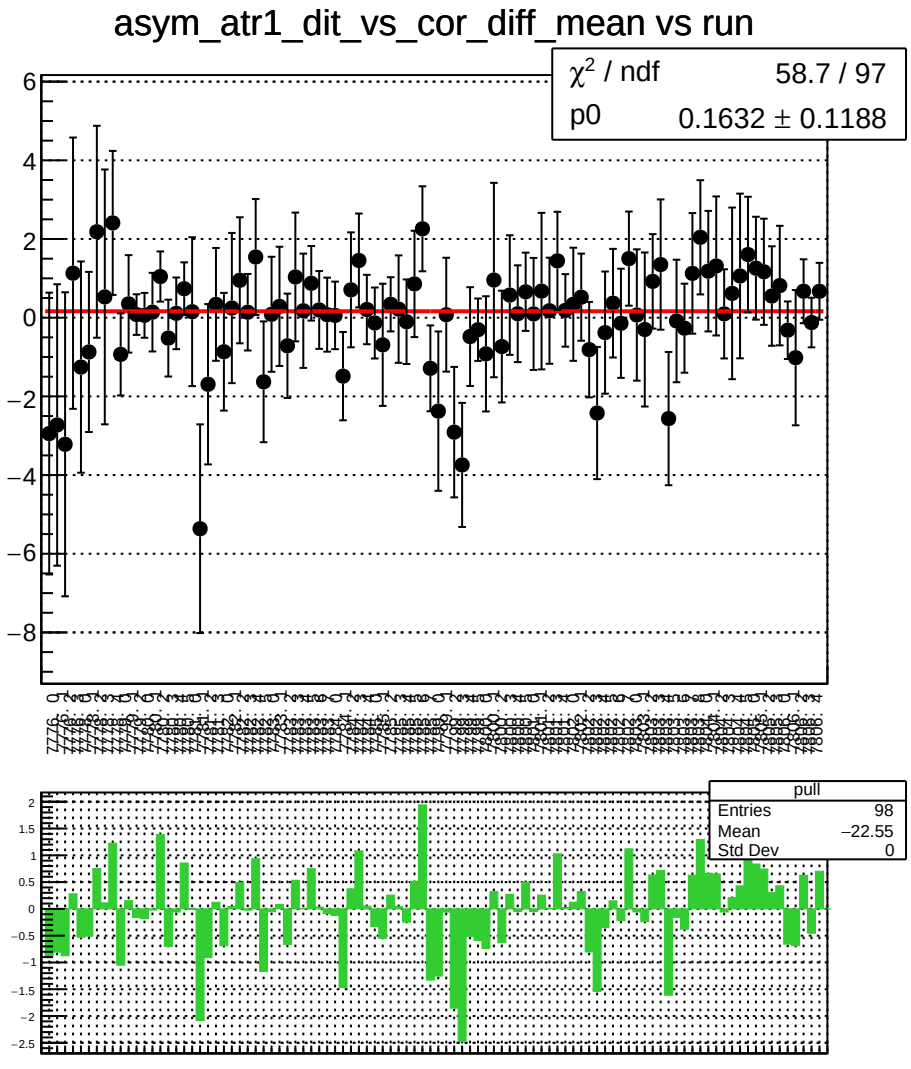

asym_atr1_mean vs run
χ² / ndf 81.39 / 97
p0 1760 ± 3288
×10³
150
100
50
0
−50
−100
pull
Entries 98
Mean 873.8
Std Dev 0
2
1
0
−1
−2

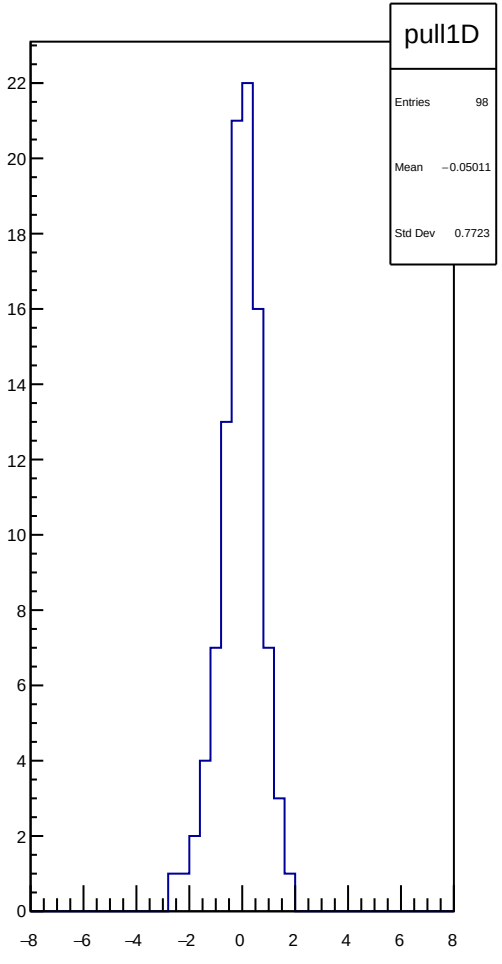

pull1D
Entries 98
Mean −0.004478
Std Dev 0.9113
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

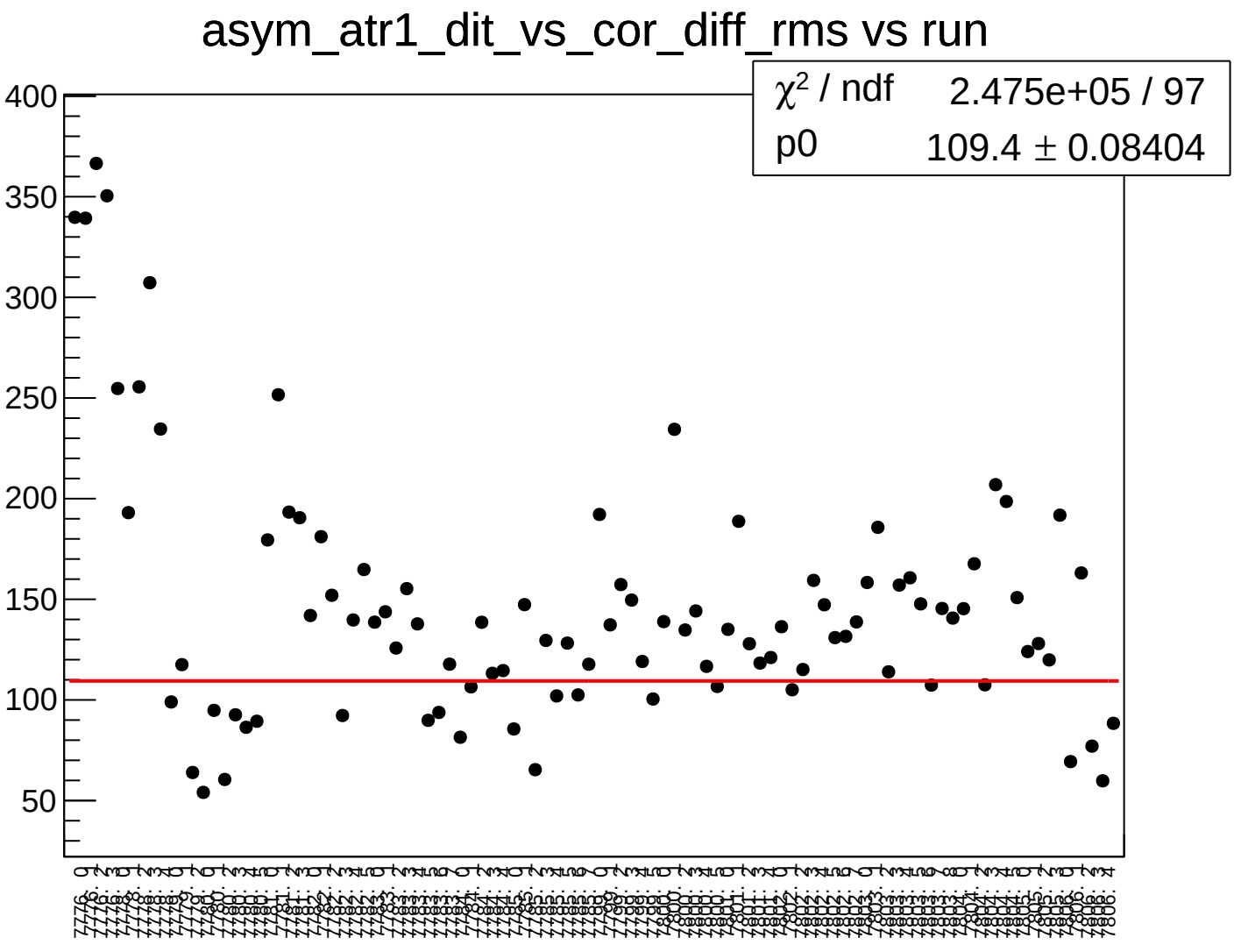

asym_atr1_rms vs run
χ² / ndf 255.3 / 97
p0 3241 ± 2.325
3350
3300
3250
3200
3150
3100

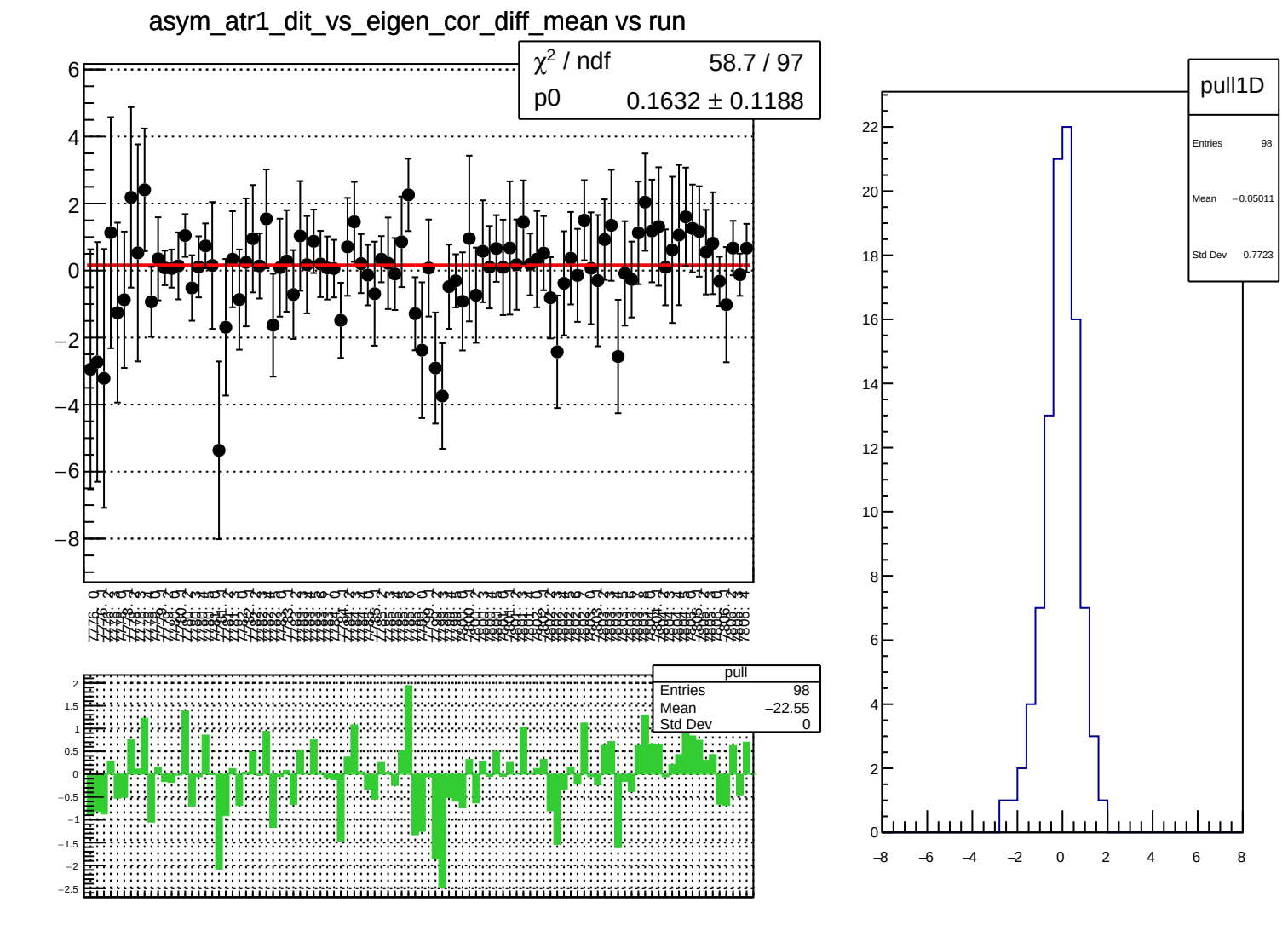

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 79.68 / 97
p0 −8.73e−14 ± 1.446e−13
pull
Entries 98
Mean 27.85
Std Dev 45.55
pull1D
Entries 98
Mean −0.02793
Std Dev 0.9013

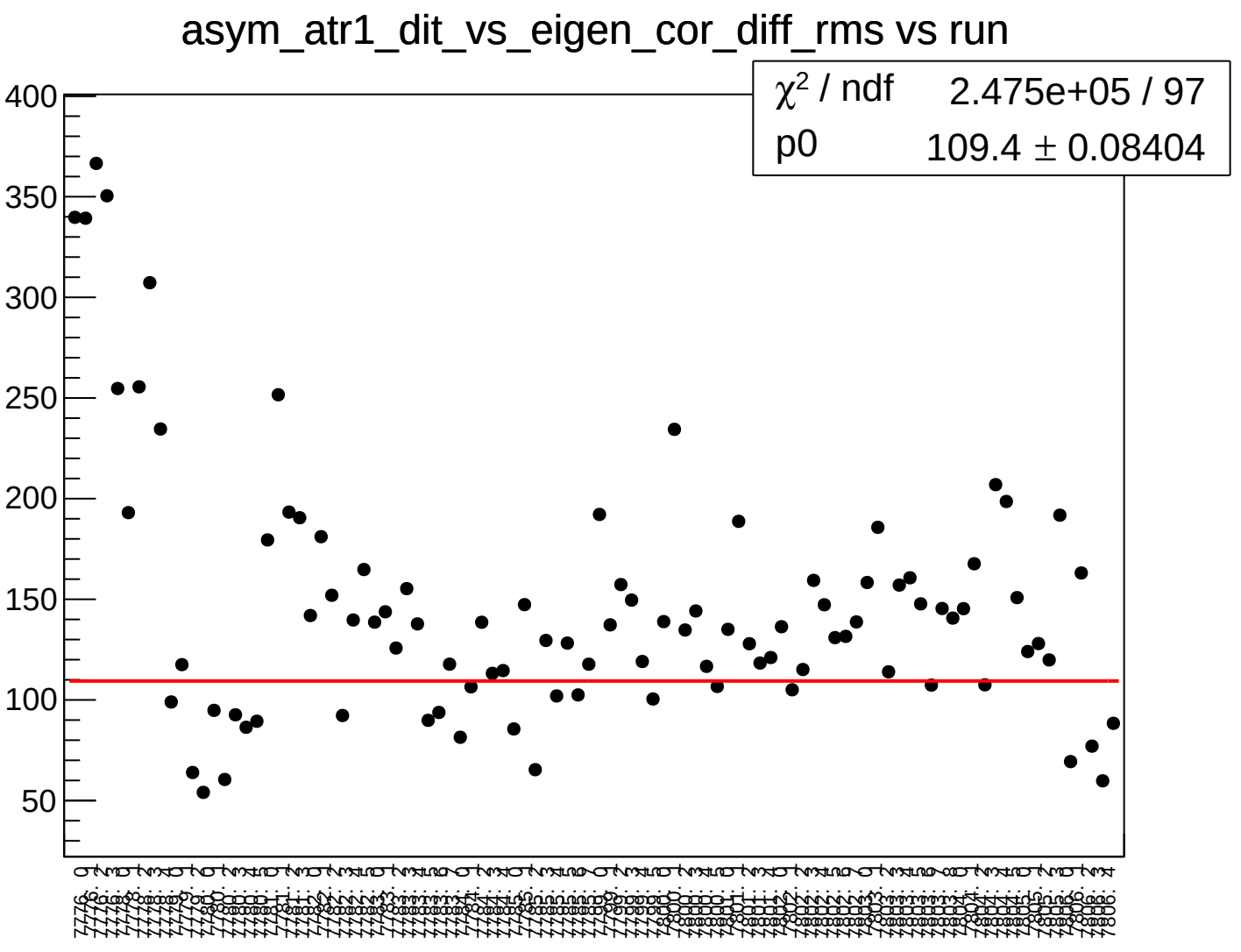

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.168e+06 / 97
p0 9.004e−11 ± 1.023e−13
1.2
1
0.8
0.6
0.4
0.2
0

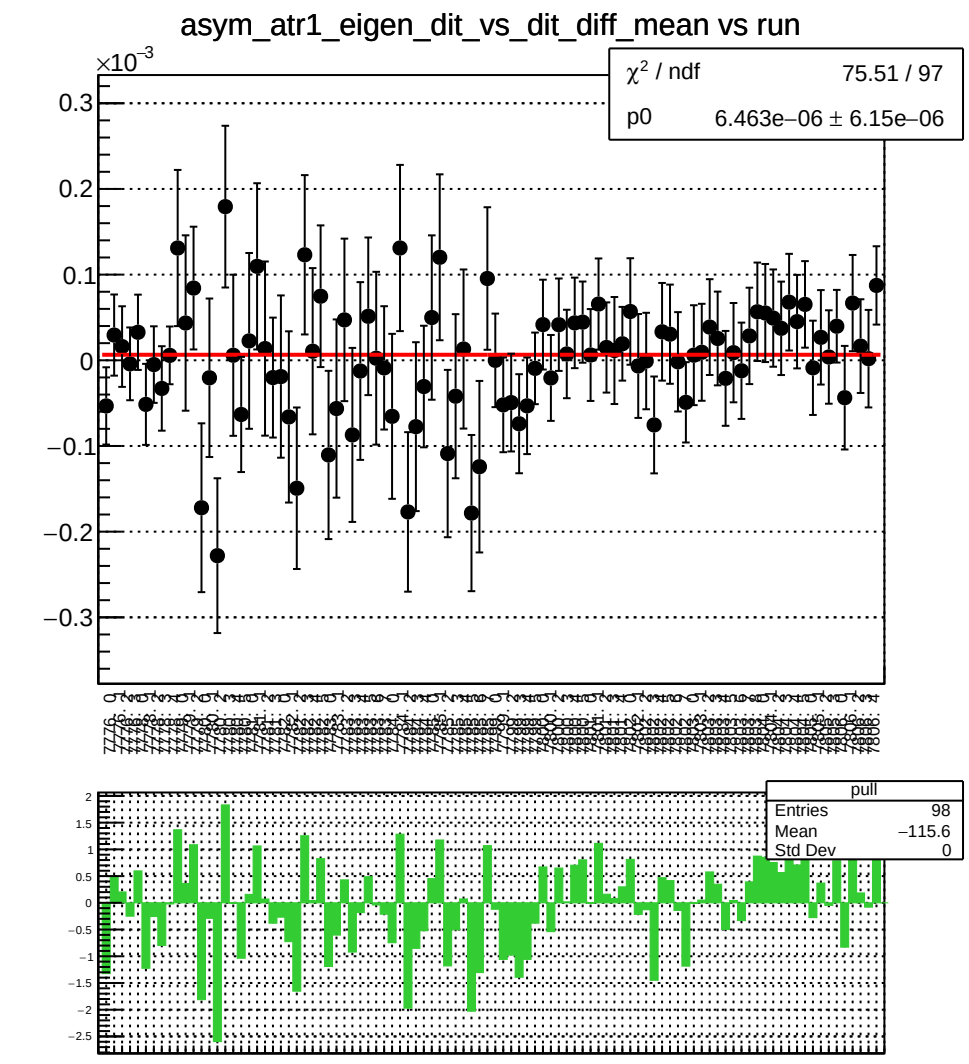

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 58.7 / 97
p0 0.1632 ± 0.1188
pull
Entries 98
Mean −22.55
Std Dev 0

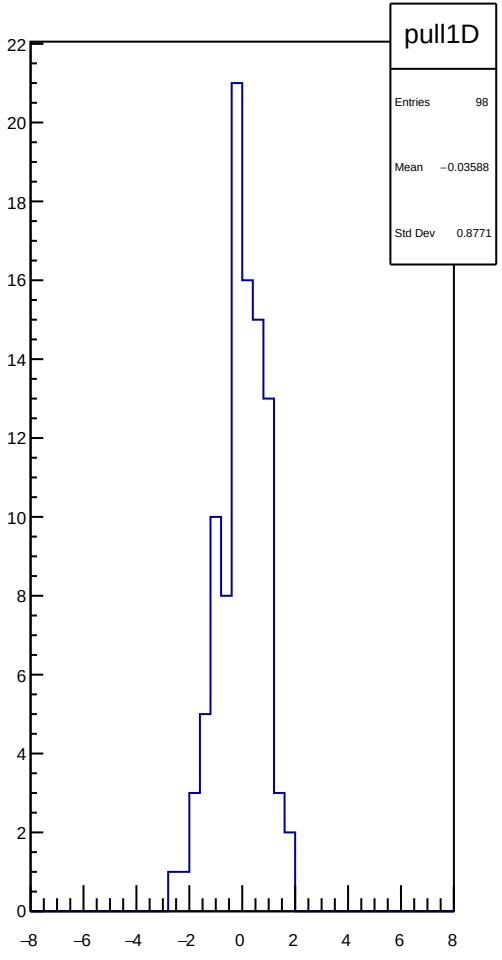

pull1D
Entries 98
Mean −0.05011
Std Dev 0.7723

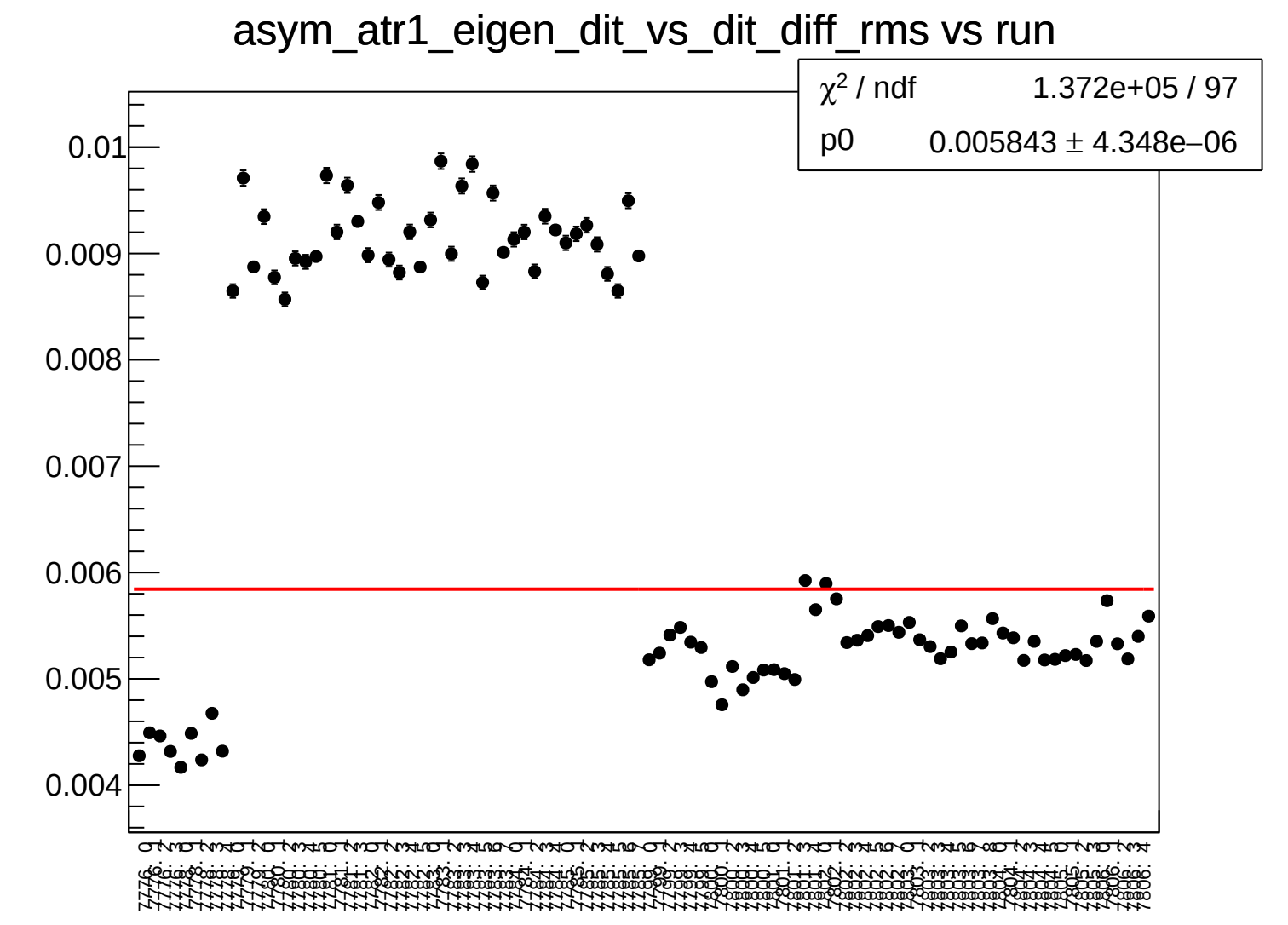

asym_atr1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.475e+05 / 97
p0 109.4 ± 0.08404
400
350
300
250
200
150
100
50

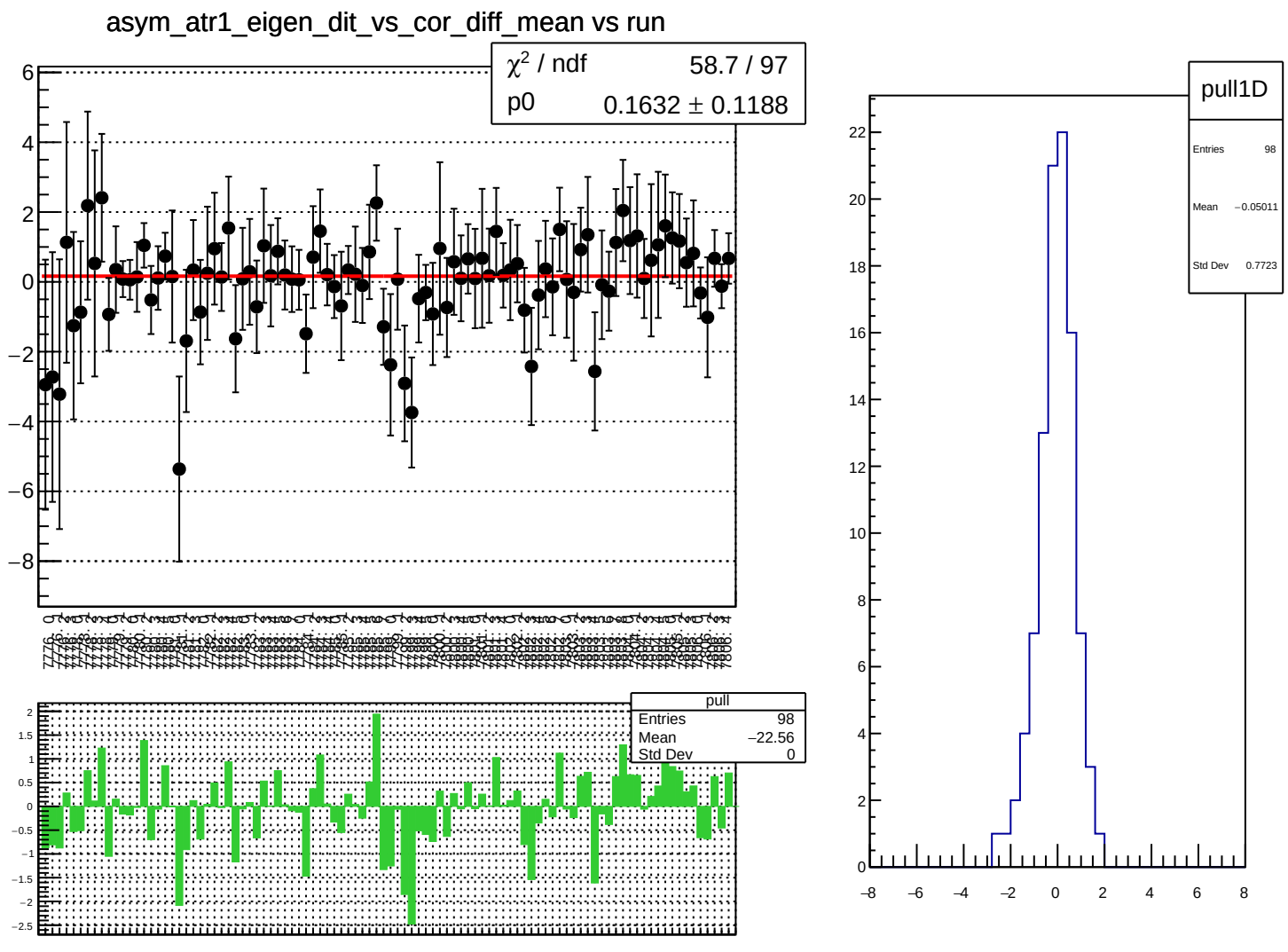

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.7 / 97
p0 0.1632 ± 0.1188
pull
Entries 98
Mean −22.55
Std Dev 0
pull1D
Entries 98
Mean −0.05011
Std Dev 0.7723

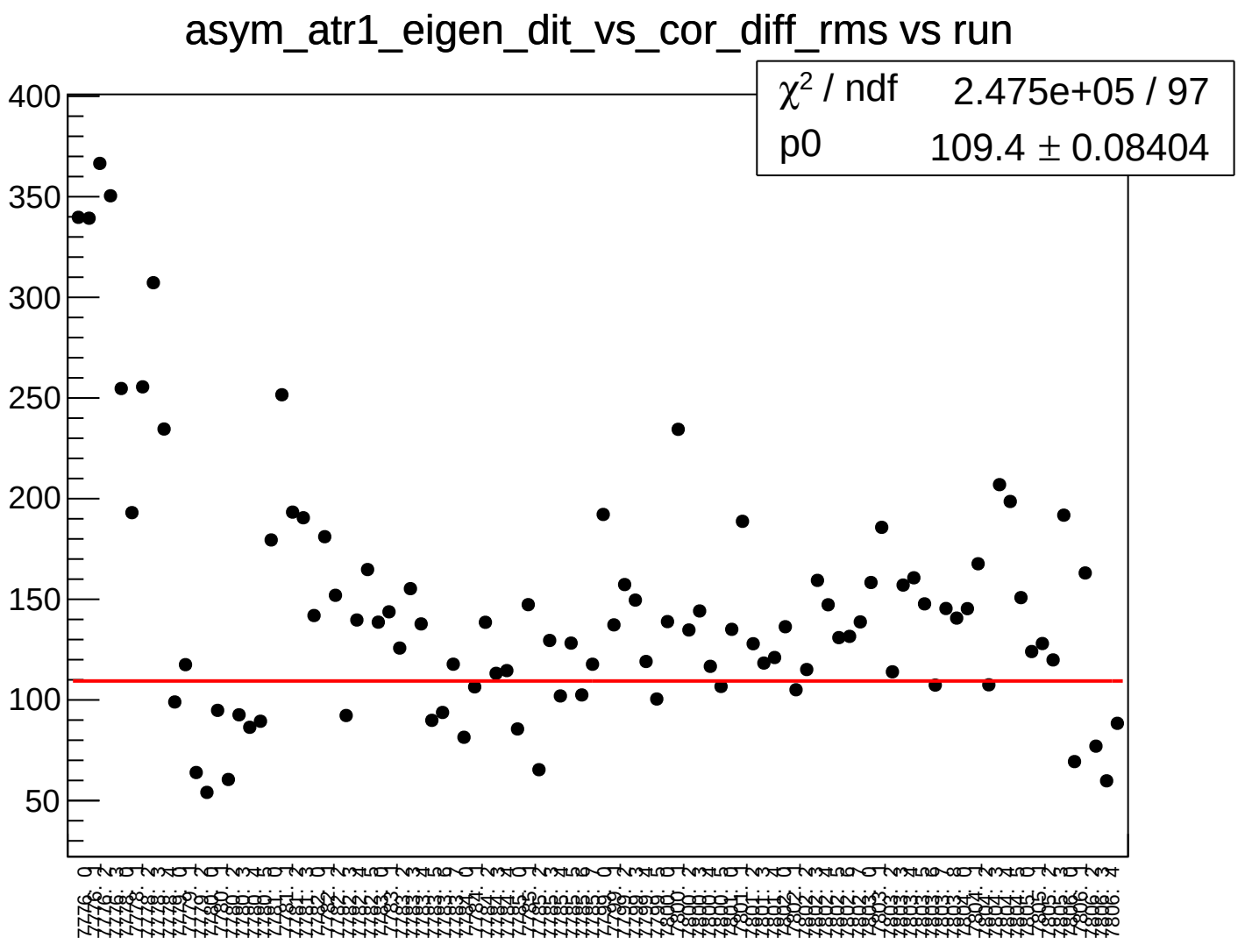

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.475e+05 / 97
p0 109.4 ± 0.08404
400
350
300
250
200
150
100
50

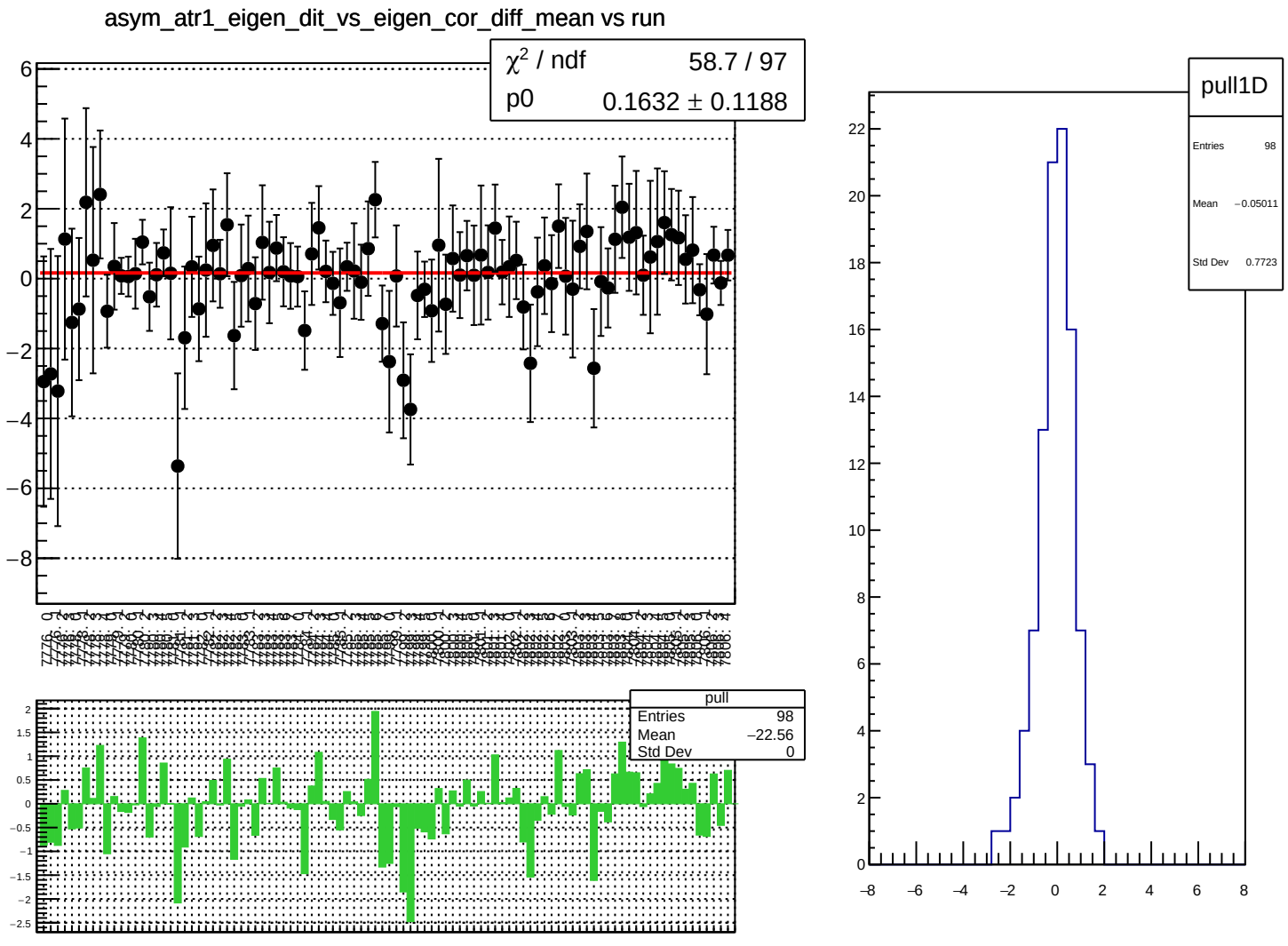

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.51 / 97
p0 6.463e−06 ± 6.15e−06
pull
Entries 98
Mean −115.6
Std Dev 0

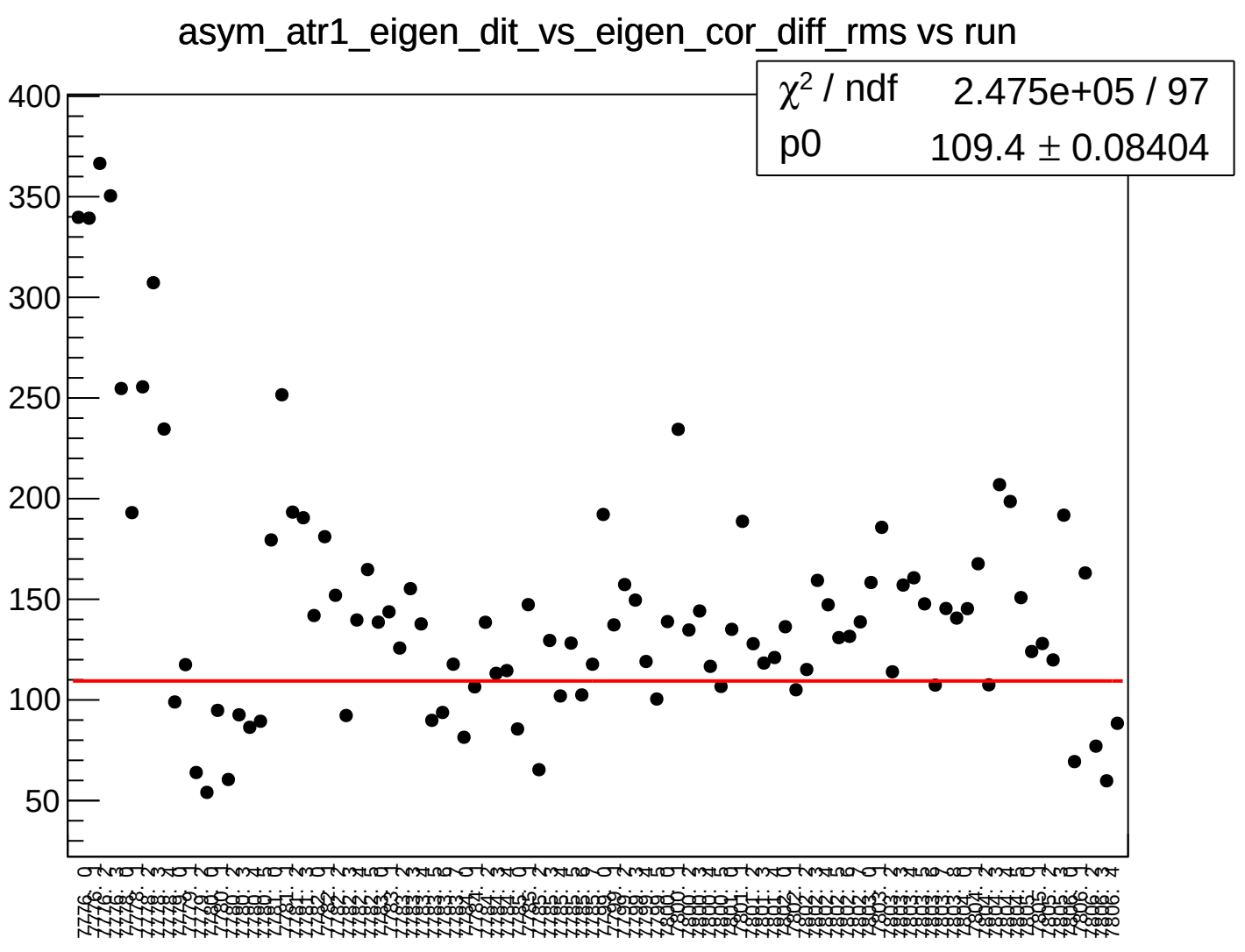

pull1D
Entries 98
Mean −0.03588
Std Dev 0.8771

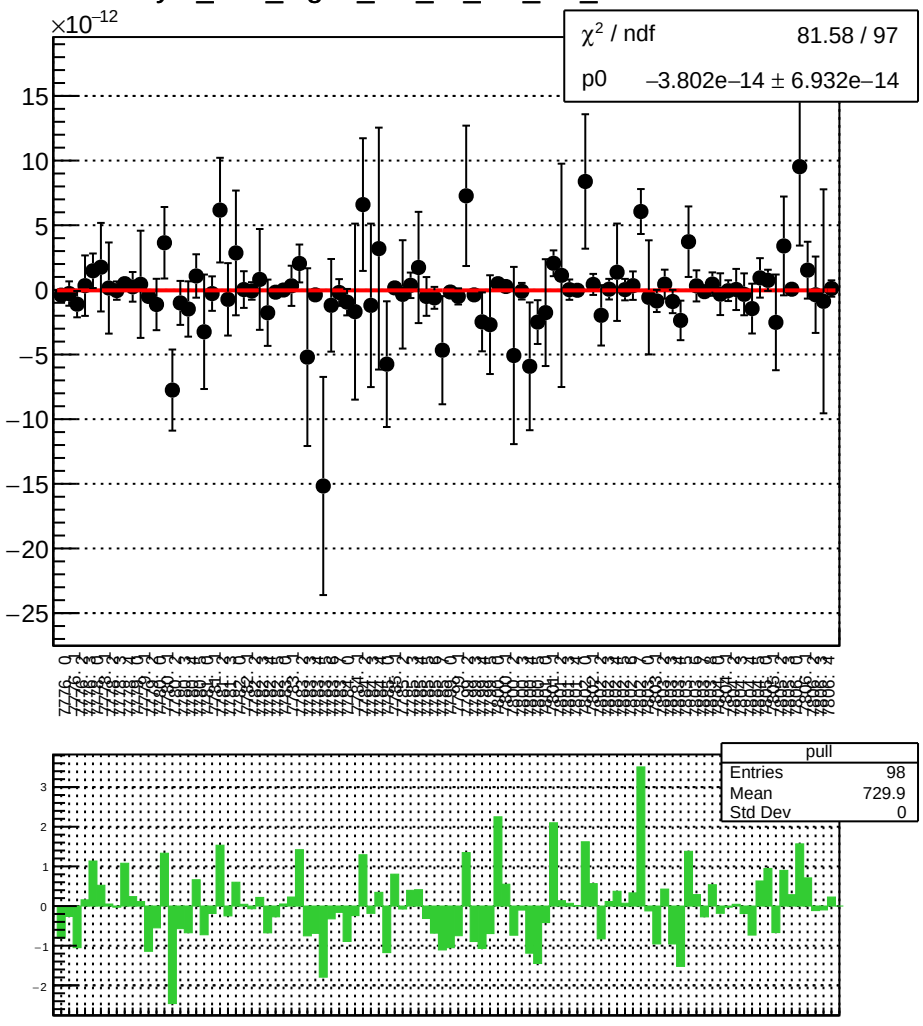

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.372e+05 / 97
p0 0.005843 ± 4.348e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

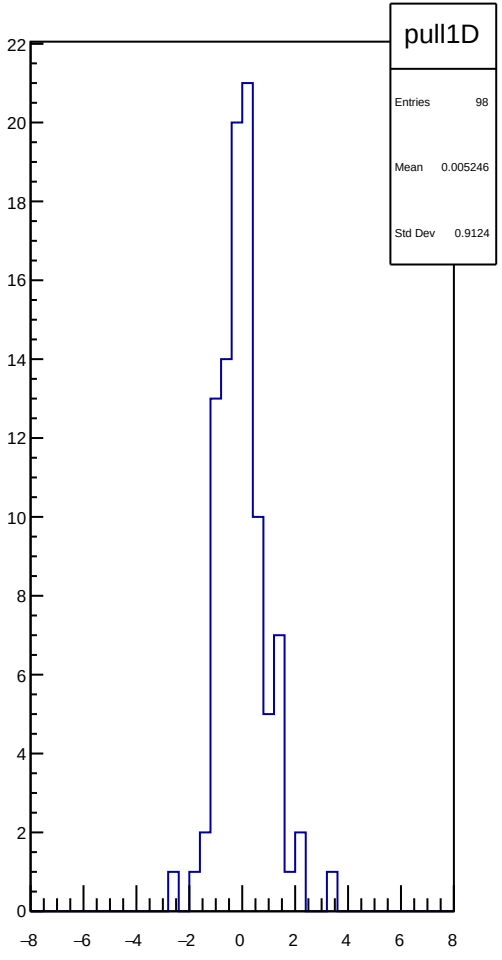

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 58.7 / 97
p0 0.1632 ± 0.1188
pull
Entries 98
Mean −22.56
Std Dev 0
pull1D
Entries 98
Mean −0.05011
Std Dev 0.7723

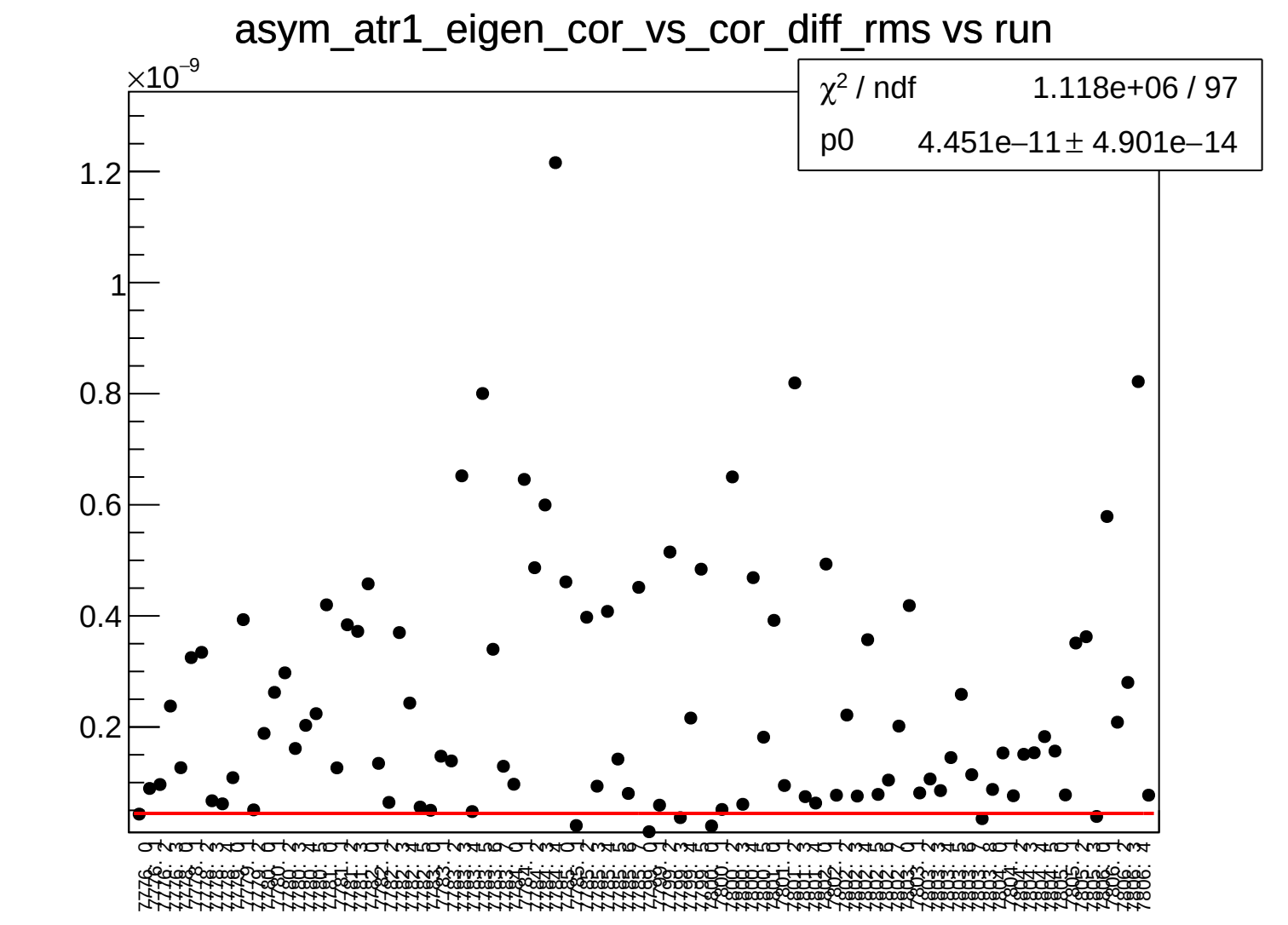

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.475e+05 / 97
p0 109.4 ± 0.08404
400
350
300
250
200
150
100
50

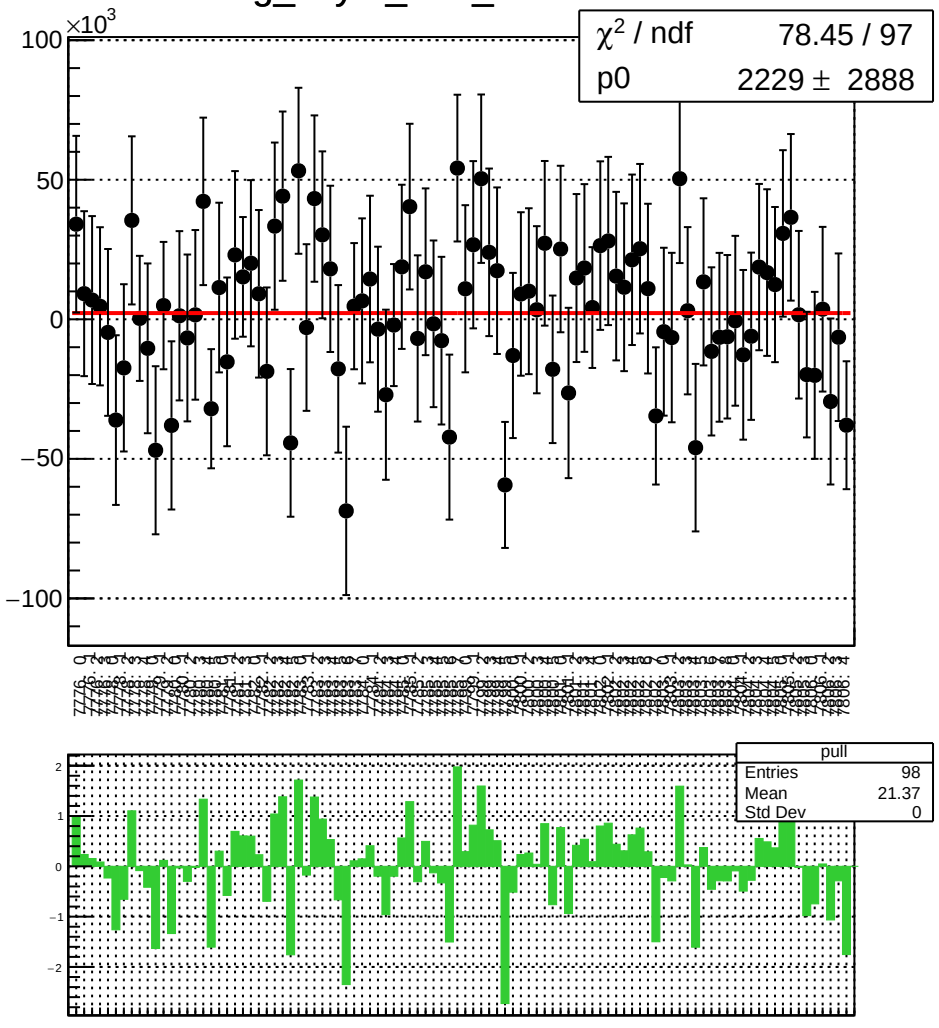

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.7 / 97
p0 0.1632 ± 0.1188
pull
Entries 98
Mean −22.56
Std Dev 0
pull1D
Entries 98
Mean −0.05011
Std Dev 0.7723

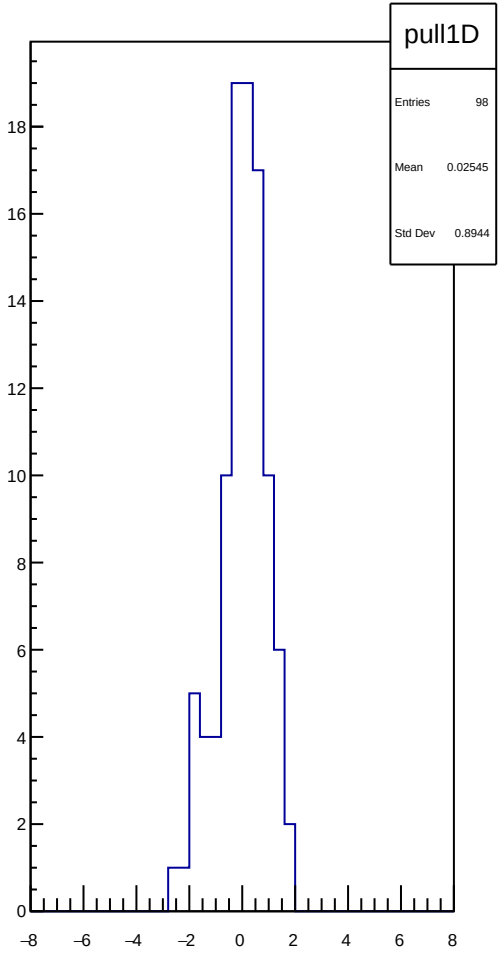

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.475e+05 / 97
p0 109.4 ± 0.08404
400
350
300
250
200
150
100
50

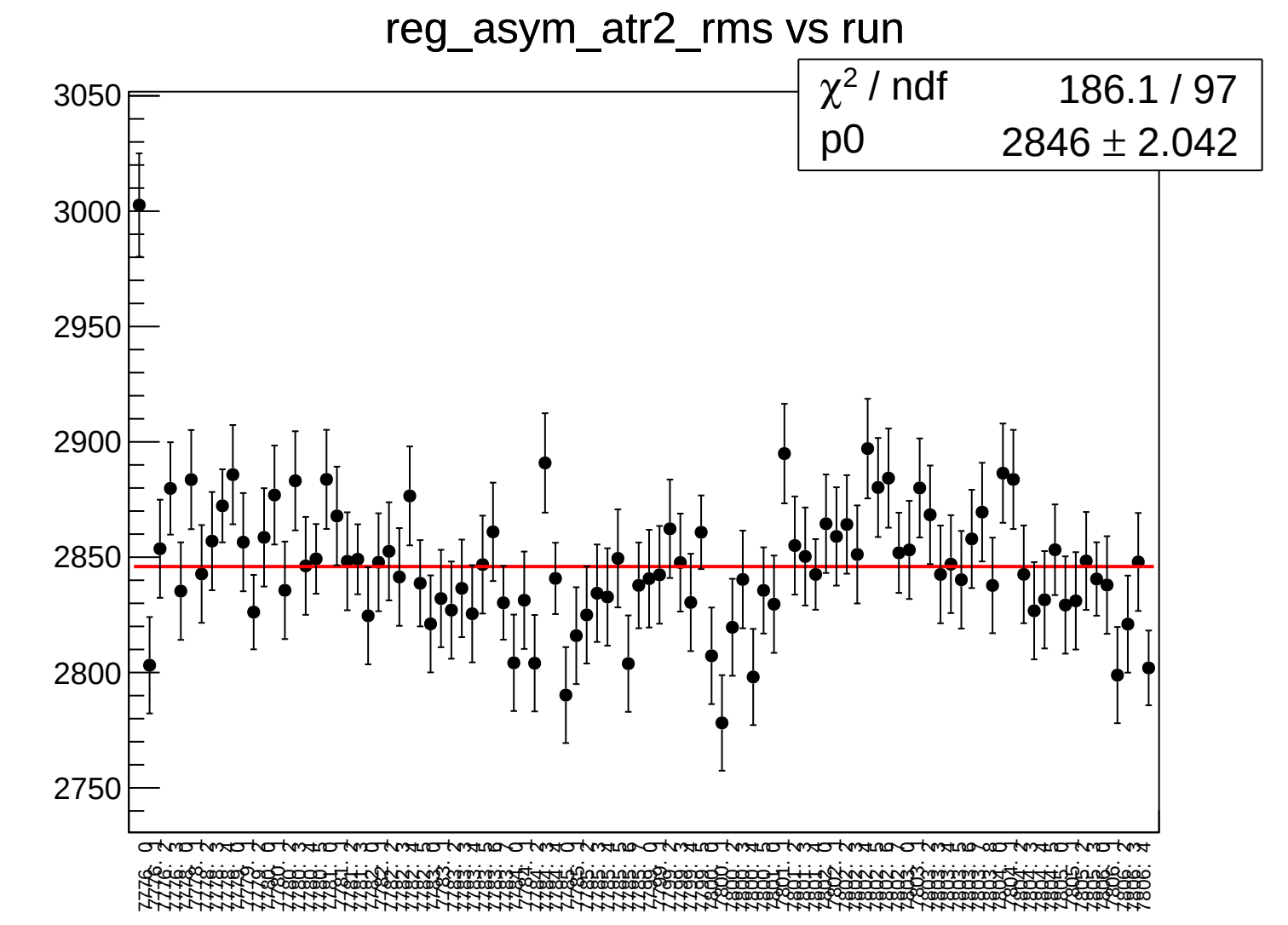

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.58 / 97
p0 −3.802e−14 ± 6.932e−14
pull
Entries 98
Mean 729.9
Std Dev 0

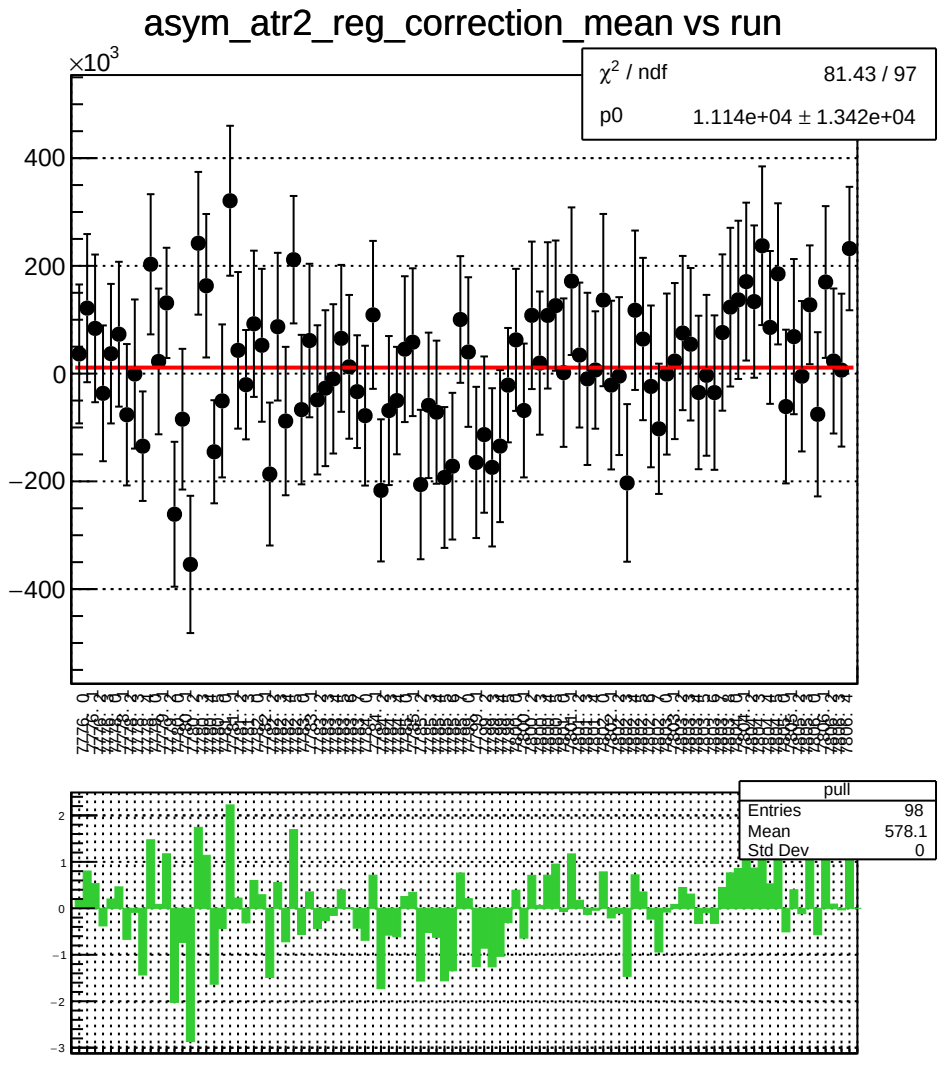

pull1D
Entries 98
Mean 0.005246
Std Dev 0.9124

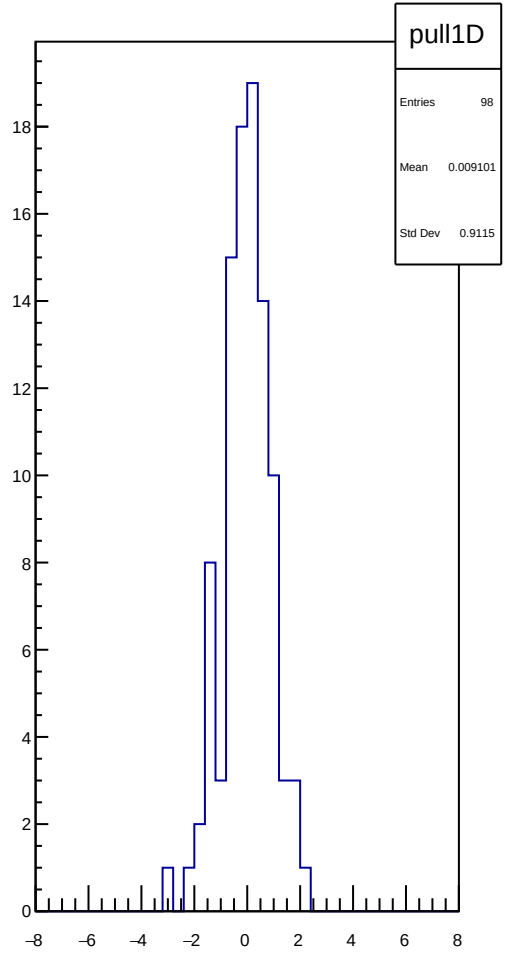

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.118e+06 / 97
p0 4.451e−11 ± 4.901e−14
1.2
1
0.8
0.6
0.4
0.2

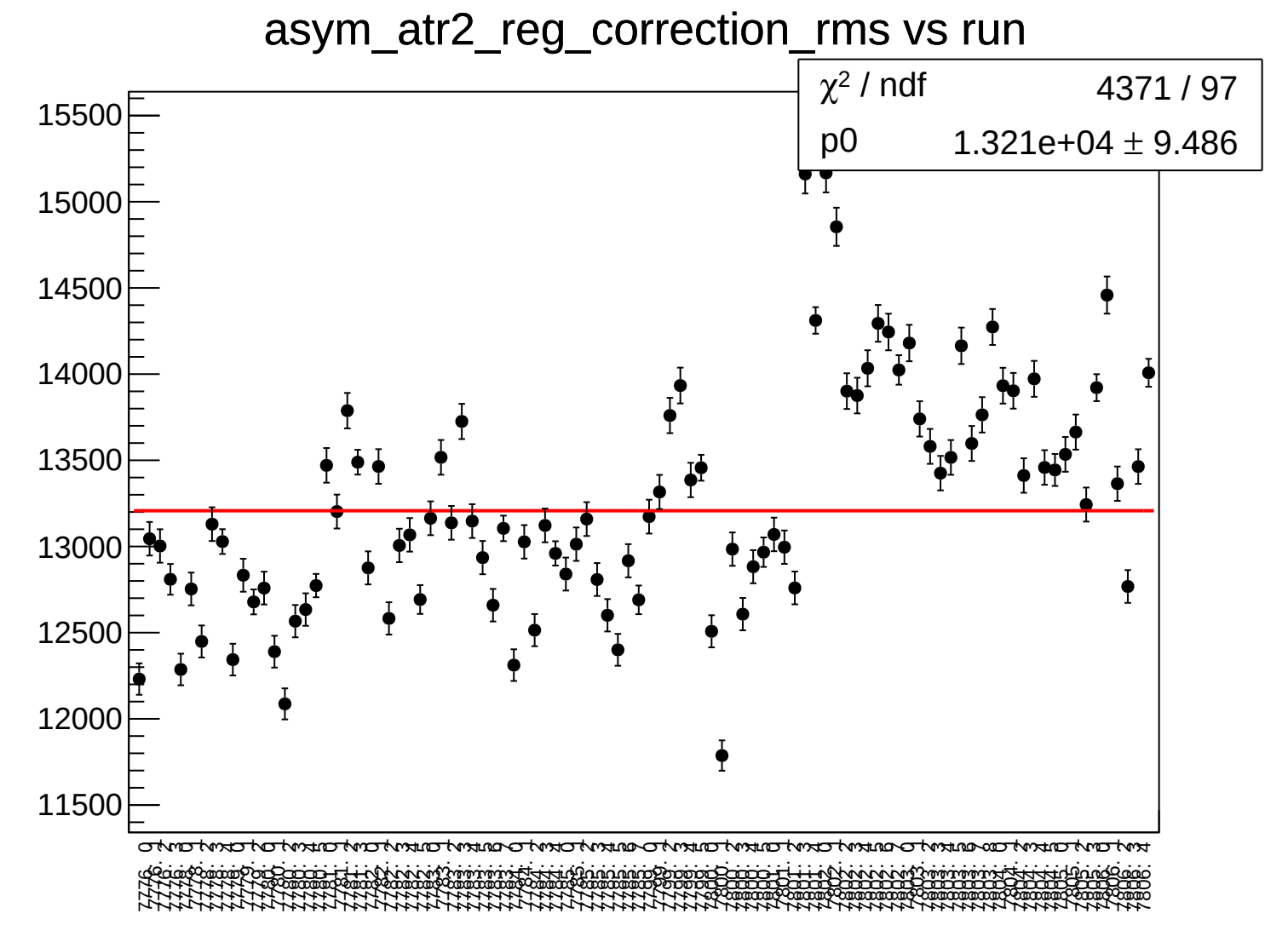

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 78.45 / 97
p0 2229 ± 2888
100
50
0
−50
−100
pull
Entries 98
Mean 21.37
Std Dev 0
2
1
0
−1
−2

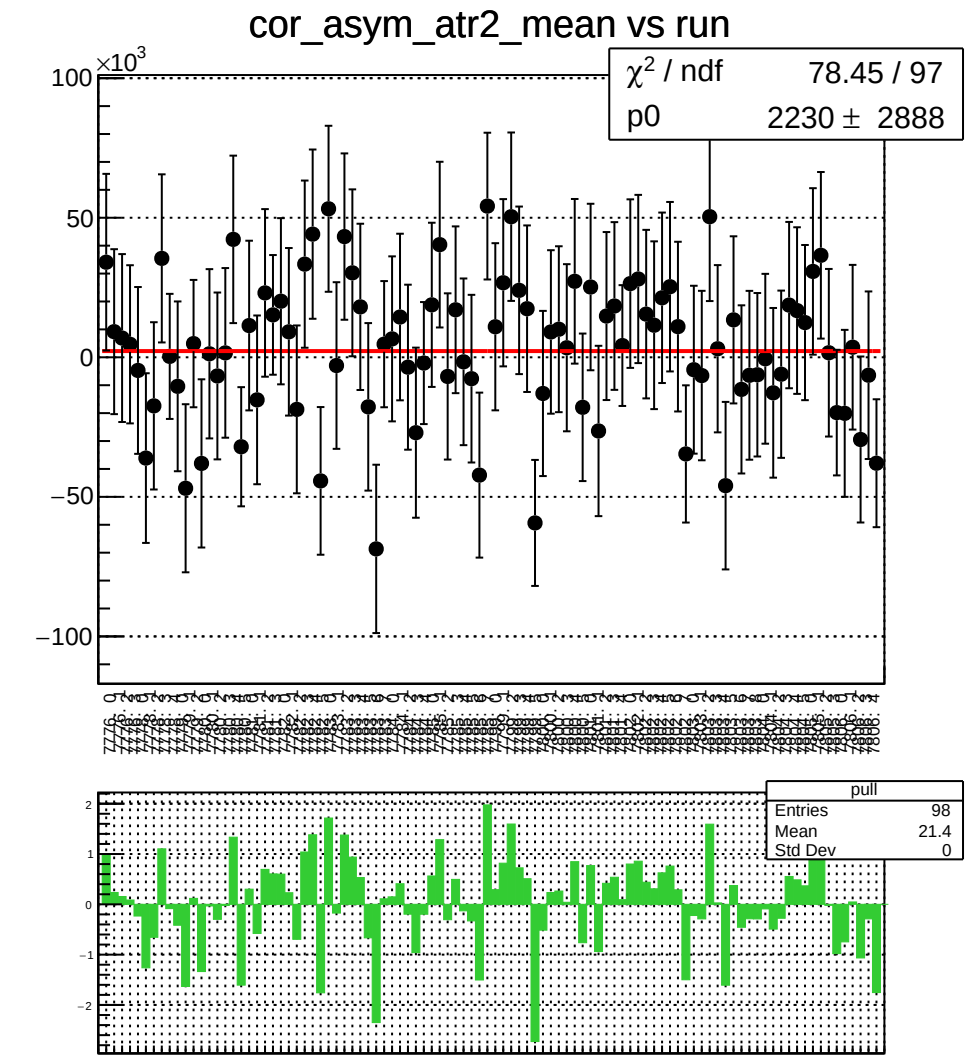

pull1D
Entries 98
Mean 0.02545
Std Dev 0.8944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

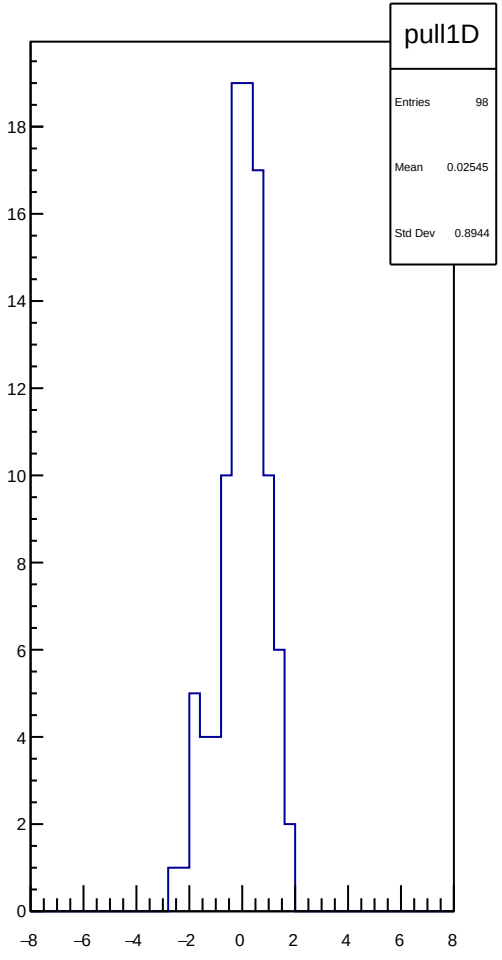

reg_asym_atr2_rms vs run
χ² / ndf 186.1 / 97
p0 2846 ± 2.042
3050
3000
2950
2900
2850
2800
2750

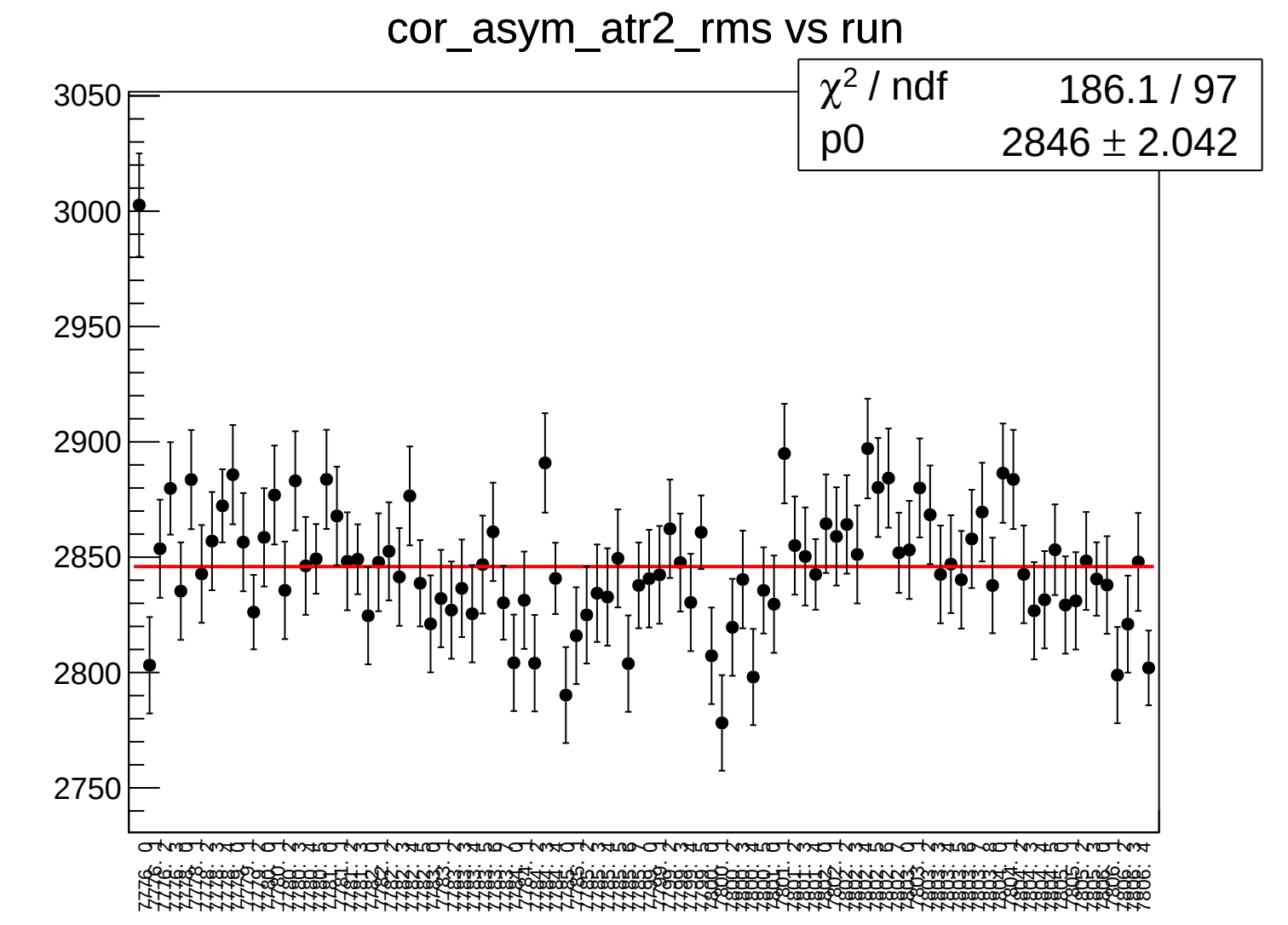

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 81.43 / 97
p0 1.114e+04 ± 1.342e+04
400
200
0
−200
−400
pull
Entries 98
Mean 578.1
Std Dev 0
2
1
0
−1
−2
−3

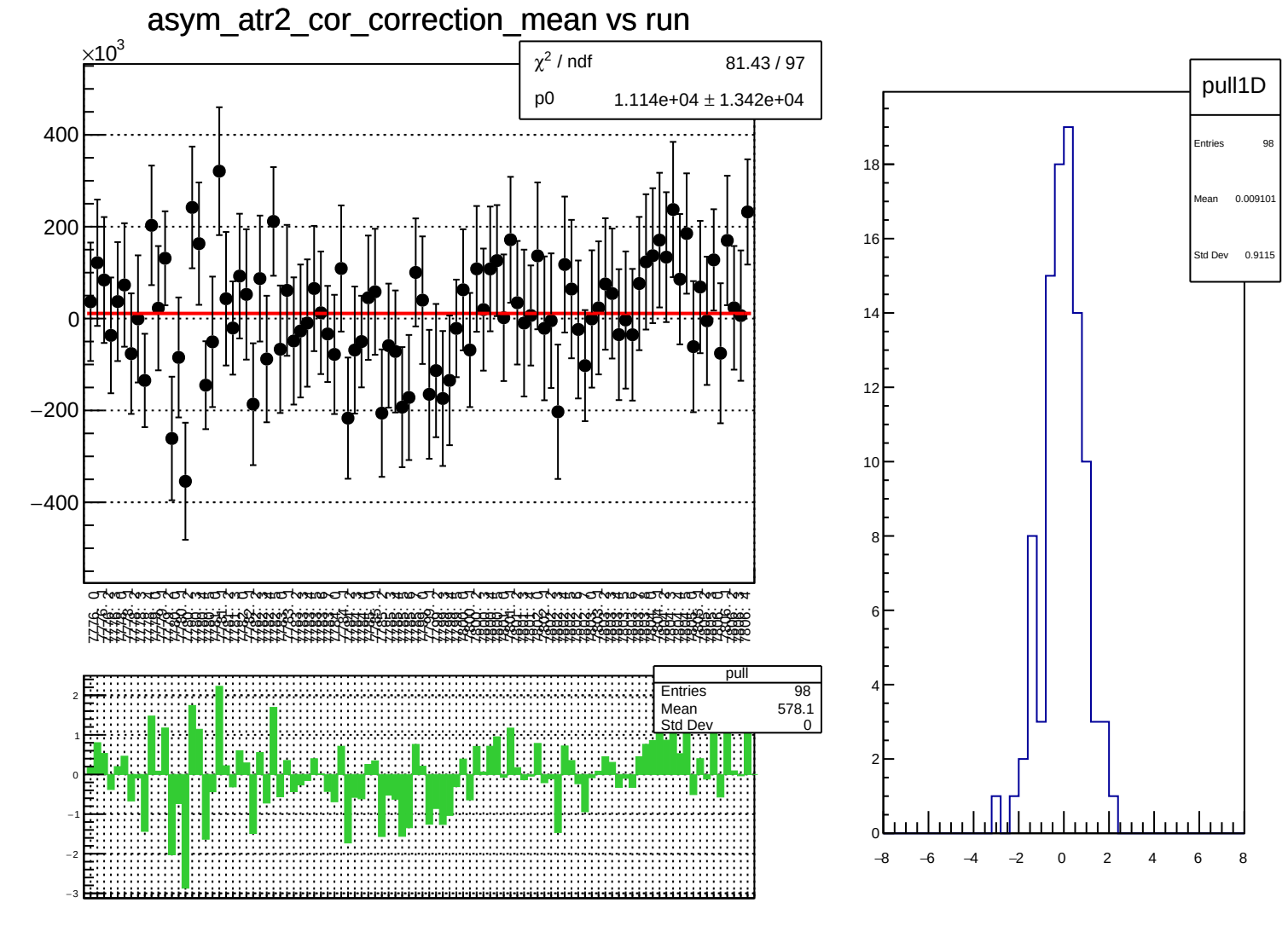

pull1D
Entries 98
Mean 0.009101
Std Dev 0.9115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

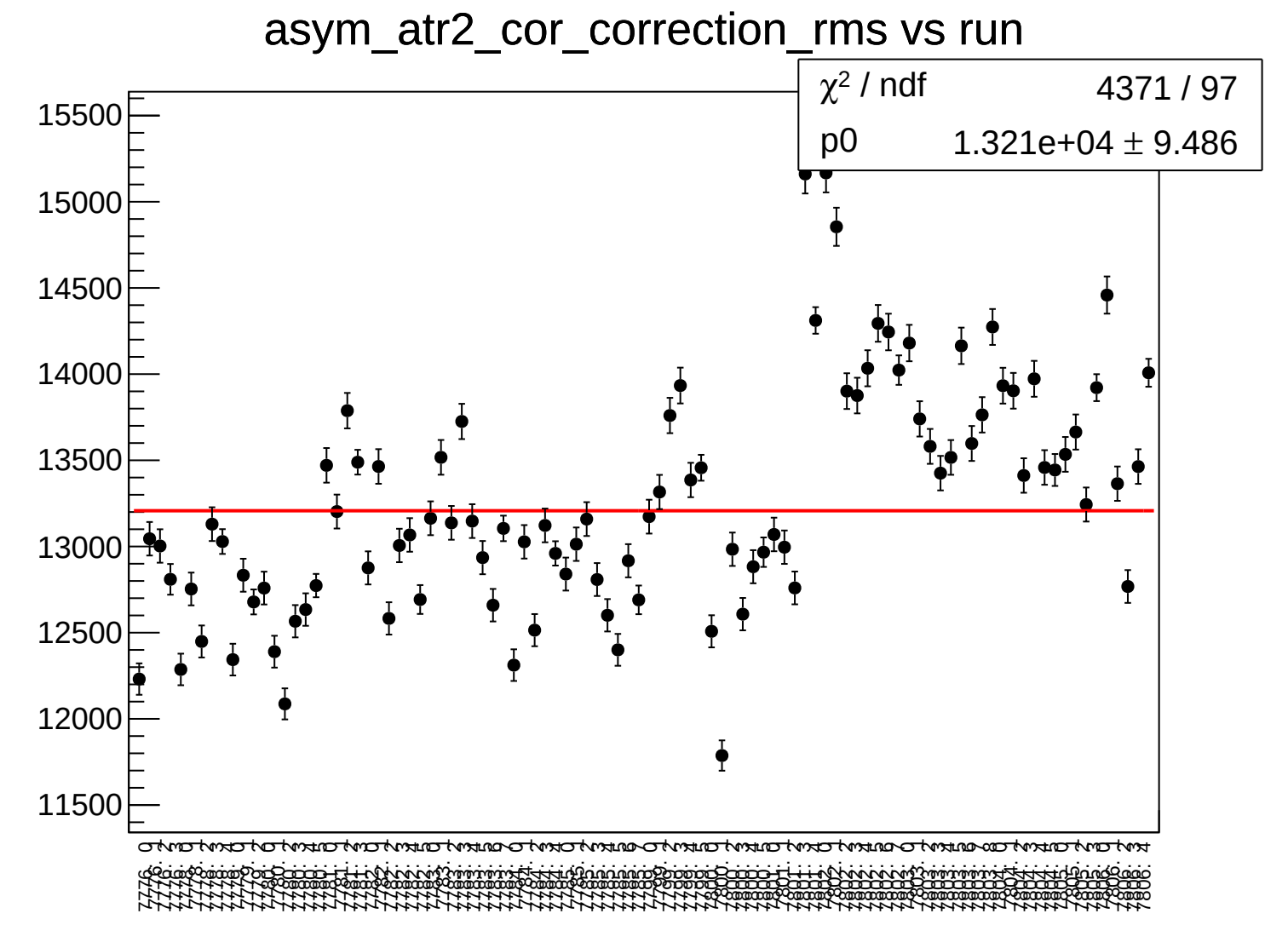

asym_atr2_reg_correction_rms vs run
χ² / ndf 4371 / 97
p0 1.321e+04 ± 9.486
15500
15000
14500
14000
13500
13000
12500
12000
11500

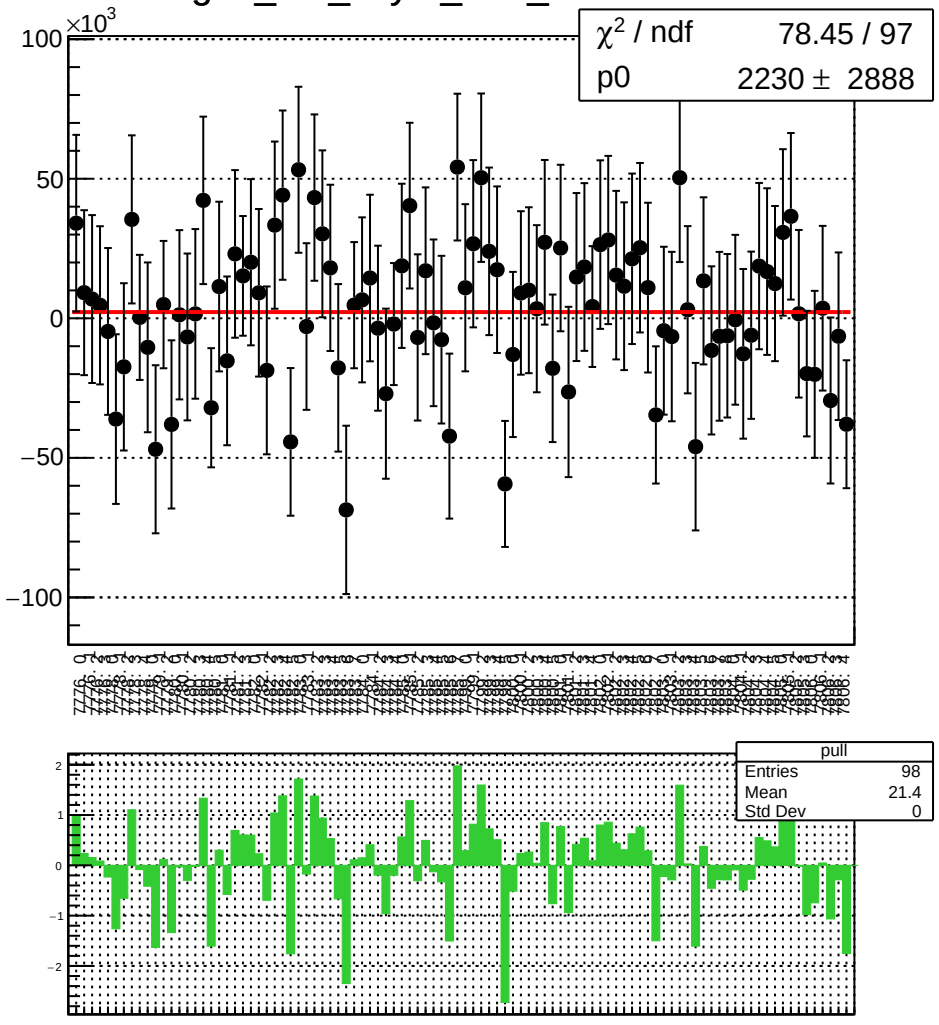

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 78.45 / 97
p0 2230 ± 2888
100
50
0
−50
−100
pull
Entries 98
Mean 21.4
Std Dev 0
2
1
0
−1
−2

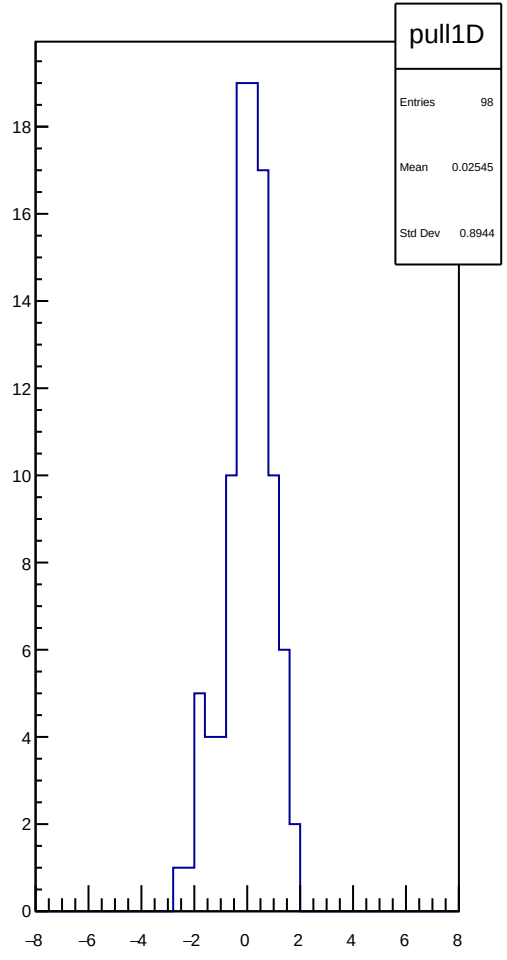

pull1D
Entries 98
Mean 0.02545
Std Dev 0.8944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

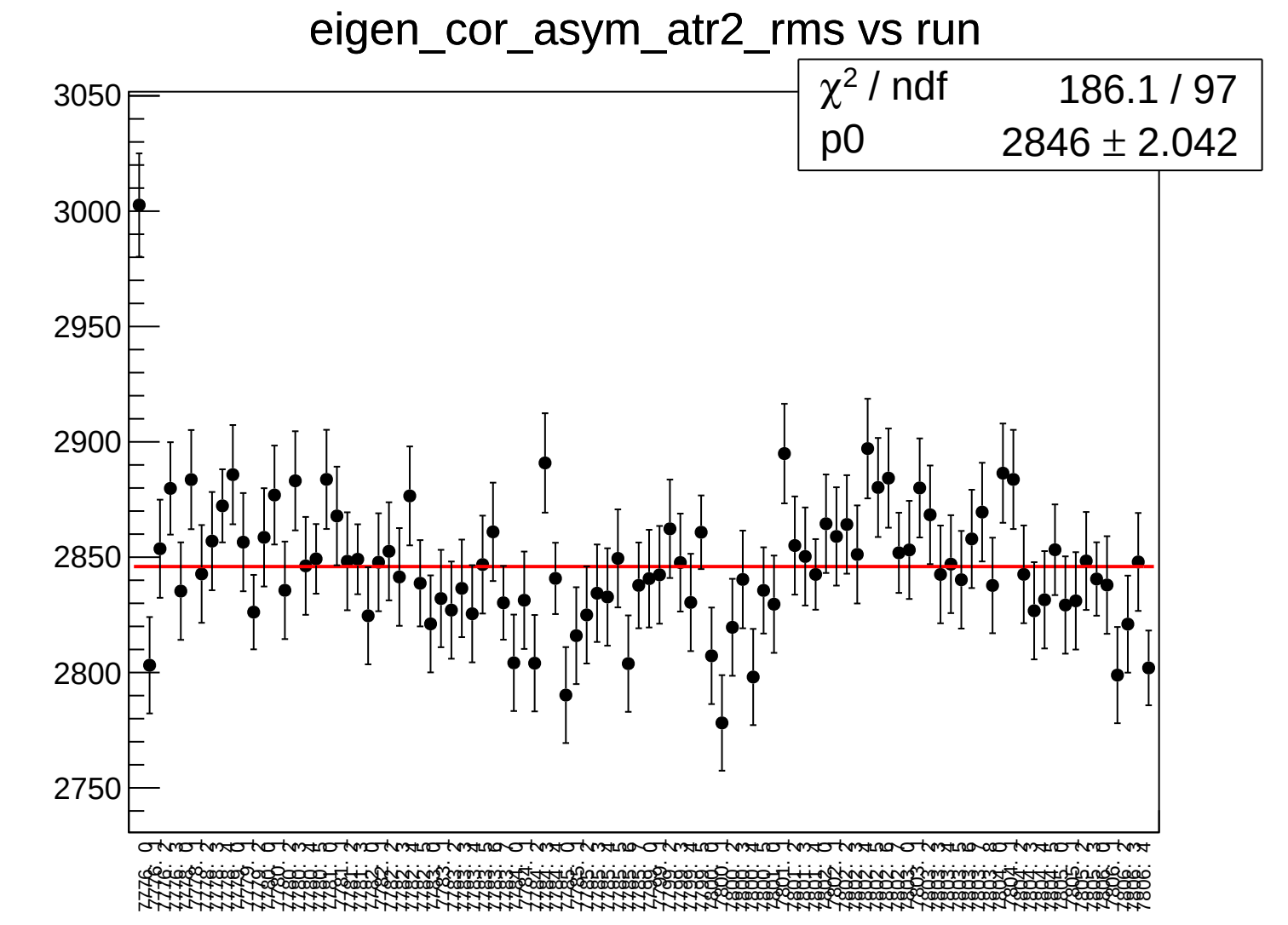

cor_asym_atr2_rms vs run
χ² / ndf 186.1 / 97
p0 2846 ± 2.042
3050
3000
2950
2900
2850
2800
2750

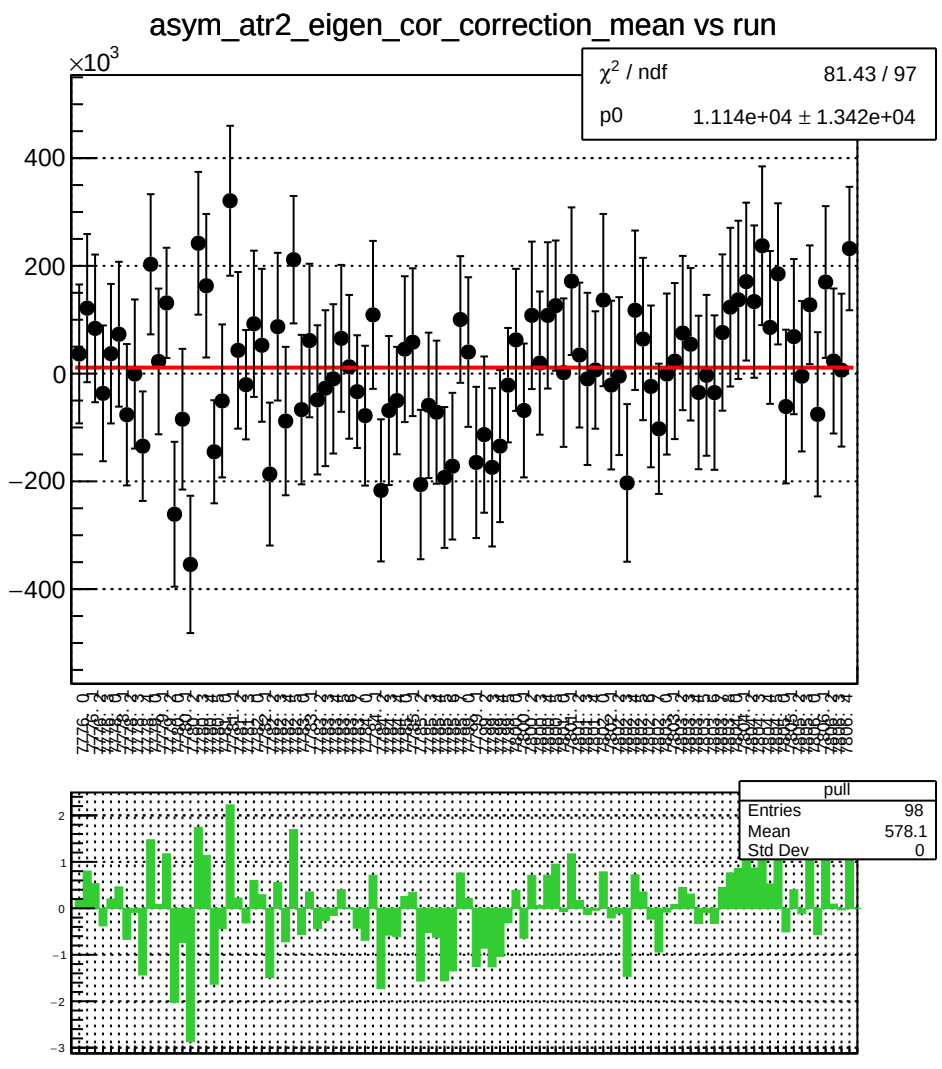

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 81.43 / 97
p0 1.114e+04 ± 1.342e+04
400
200
0
−200
−400
pull
Entries 98
Mean 578.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.009101
Std Dev 0.9115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

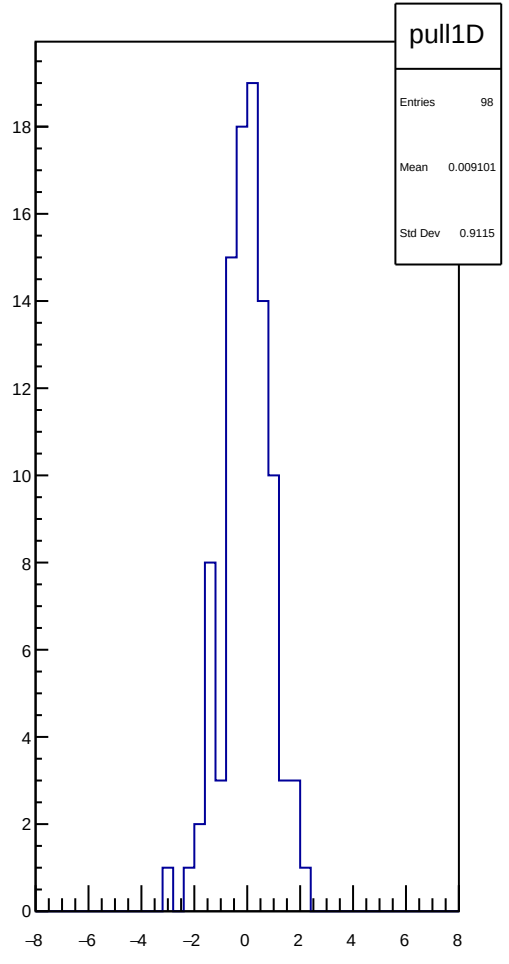

asym_atr2_cor_correction_rms vs run
χ² / ndf 4371 / 97
p0 1.321e+04 ± 9.486
15500
15000
14500
14000
13500
13000
12500
12000
11500

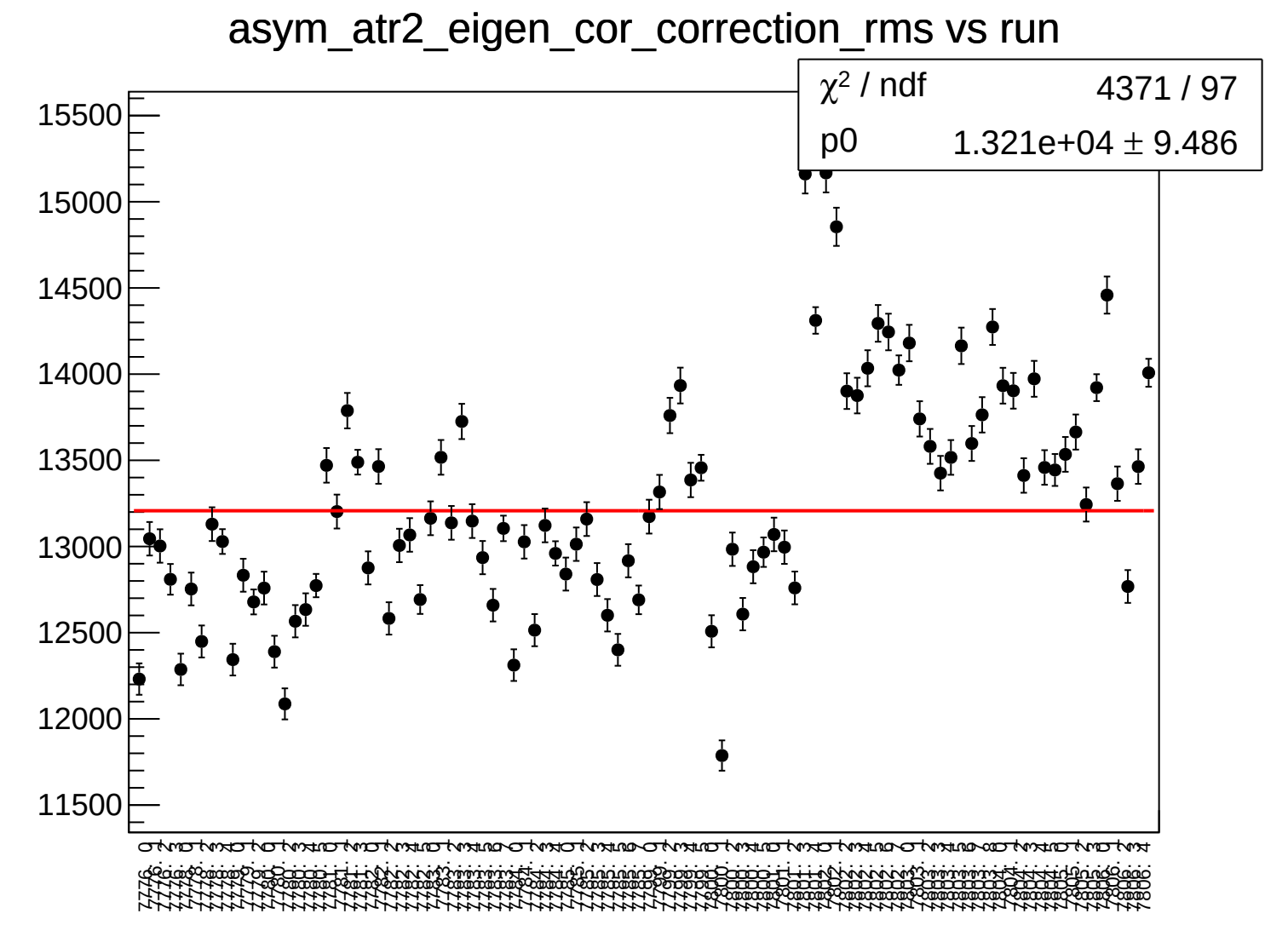

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 78.45 / 97
p0 2230 ± 2888
100
50
0
−50
−100
pull
Entries 98
Mean 21.4
Std Dev 0
2
1
0
−1
−2

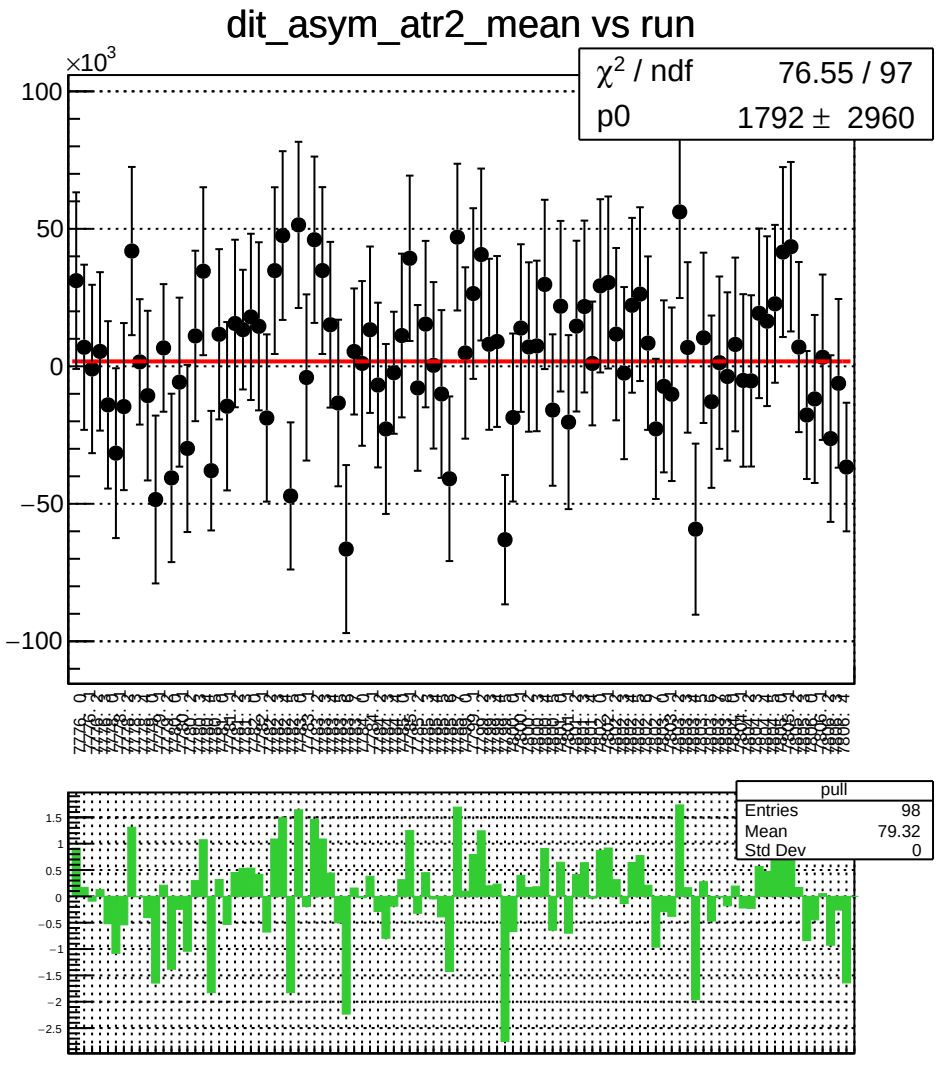

pull1D
Entries 98
Mean 0.02545
Std Dev 0.8944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

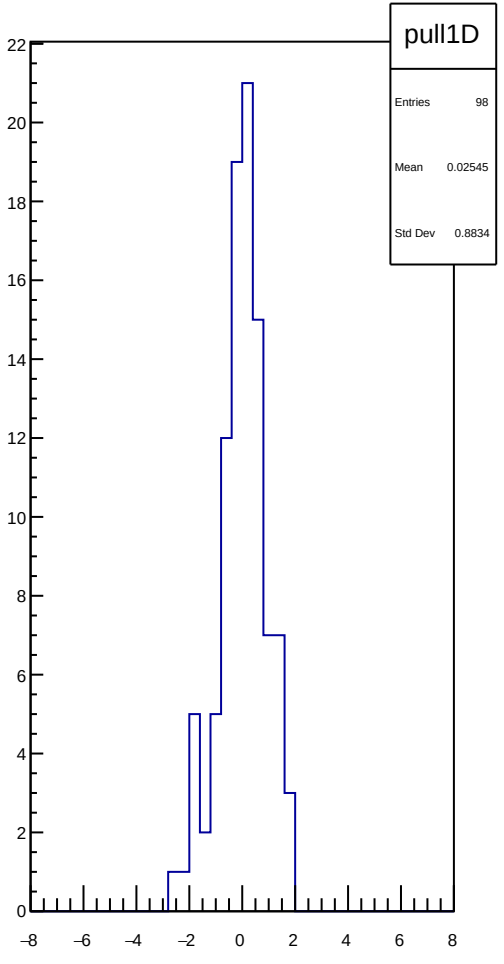

eigen_cor_asym_atr2_rms vs run
χ² / ndf 186.1 / 97
p0 2846 ± 2.042
3050
3000
2950
2900
2850
2800
2750

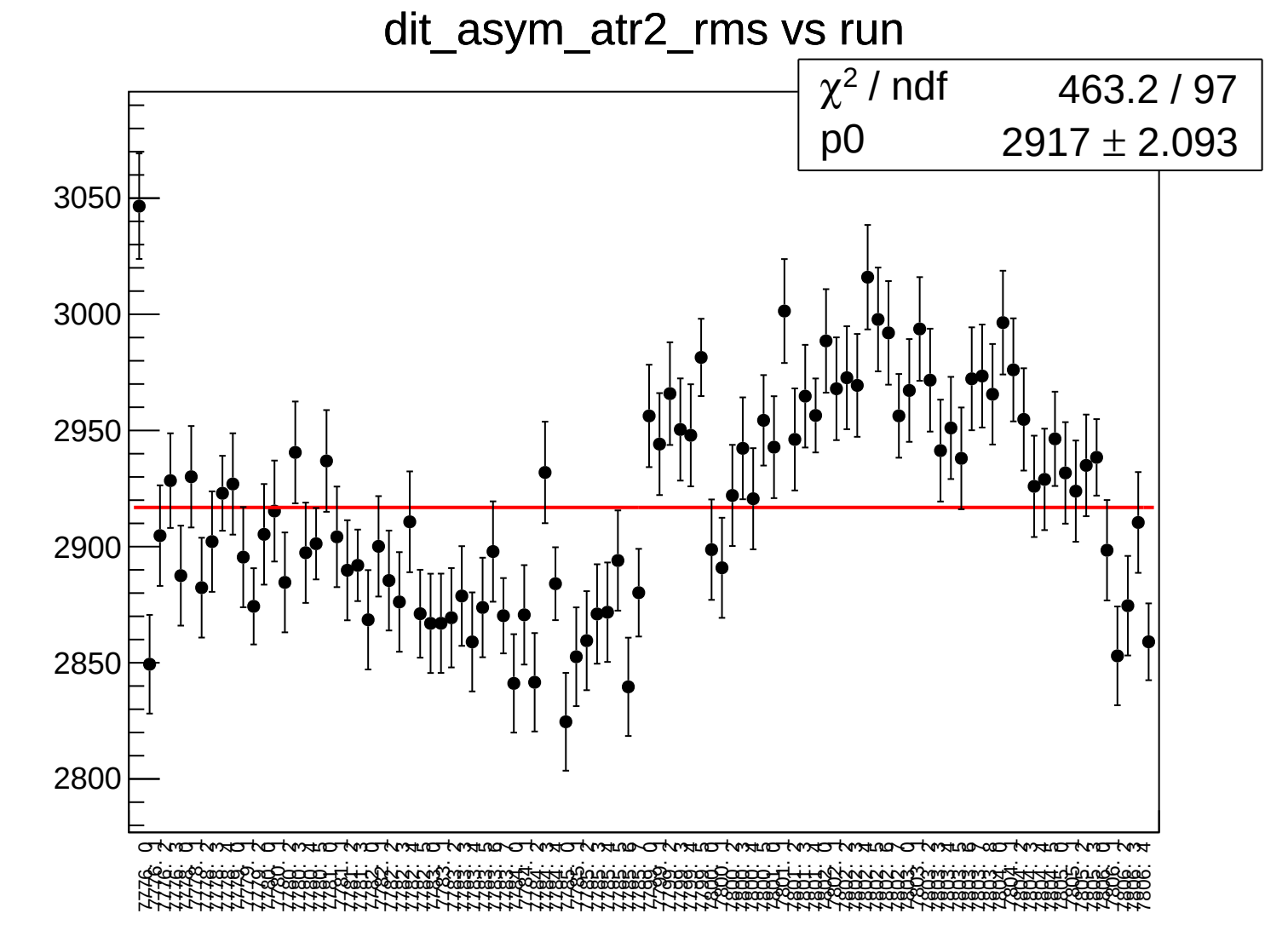

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.43 / 97
p0 1.114e+04 ± 1.342e+04
400
200
0
−200
−400
pull
Entries 98
Mean 578.1
Std Dev 0
2
1
0
−1
−2
−3

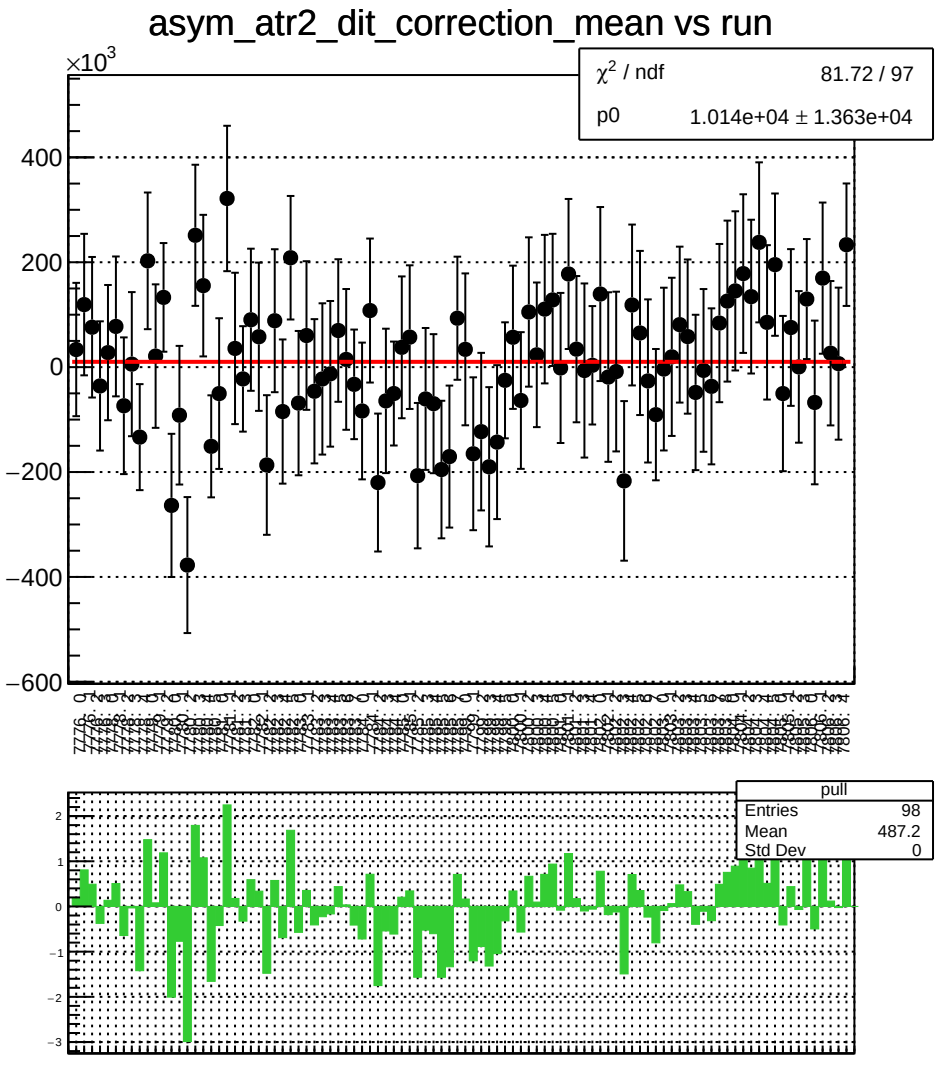

pull1D
Entries 98
Mean 0.009101
Std Dev 0.9115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

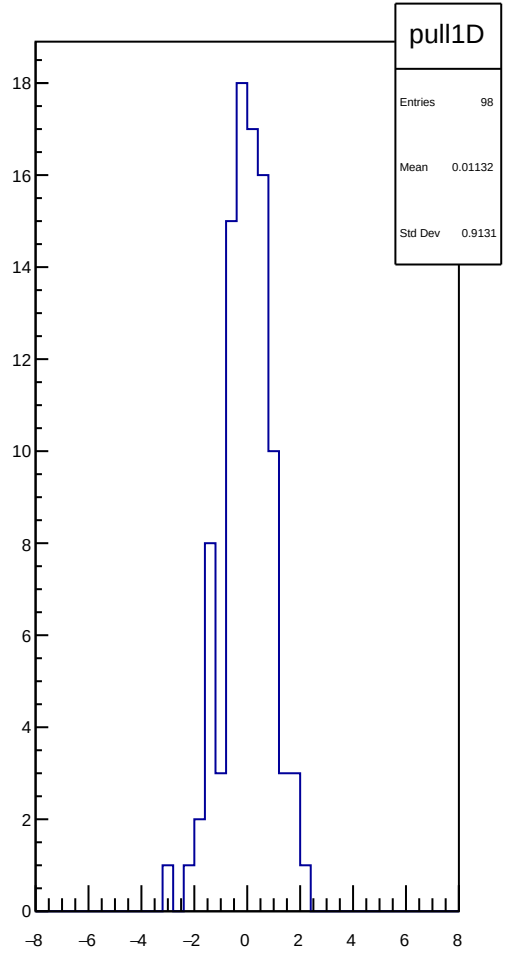

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 4371 / 97
p0 1.321e+04 ± 9.486
15500
15000
14500
14000
13500
13000
12500
12000
11500

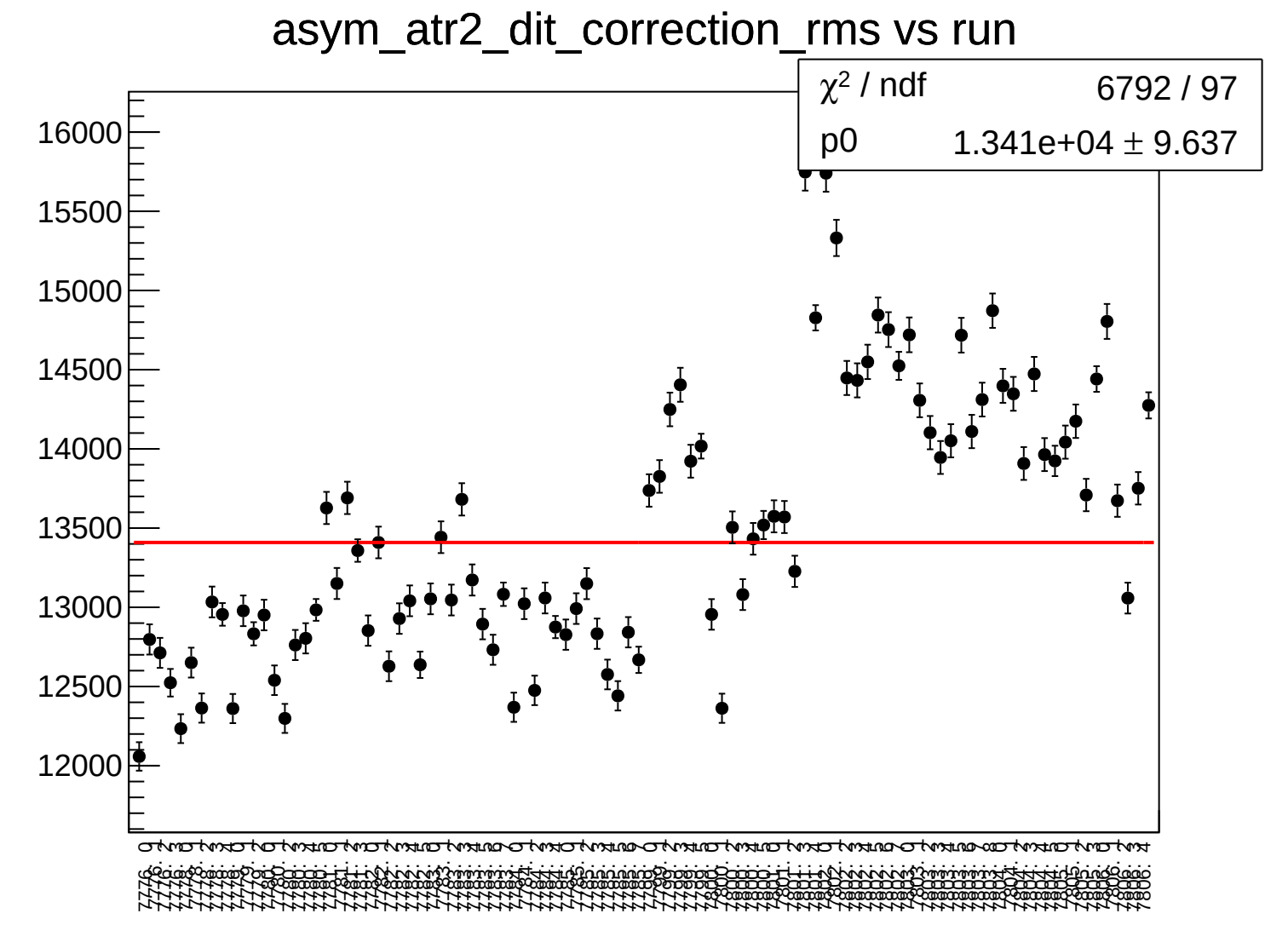

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 76.55 / 97
p0 1792 ± 2960
100
50
0
−50
−100
pull
Entries 98
Mean 79.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

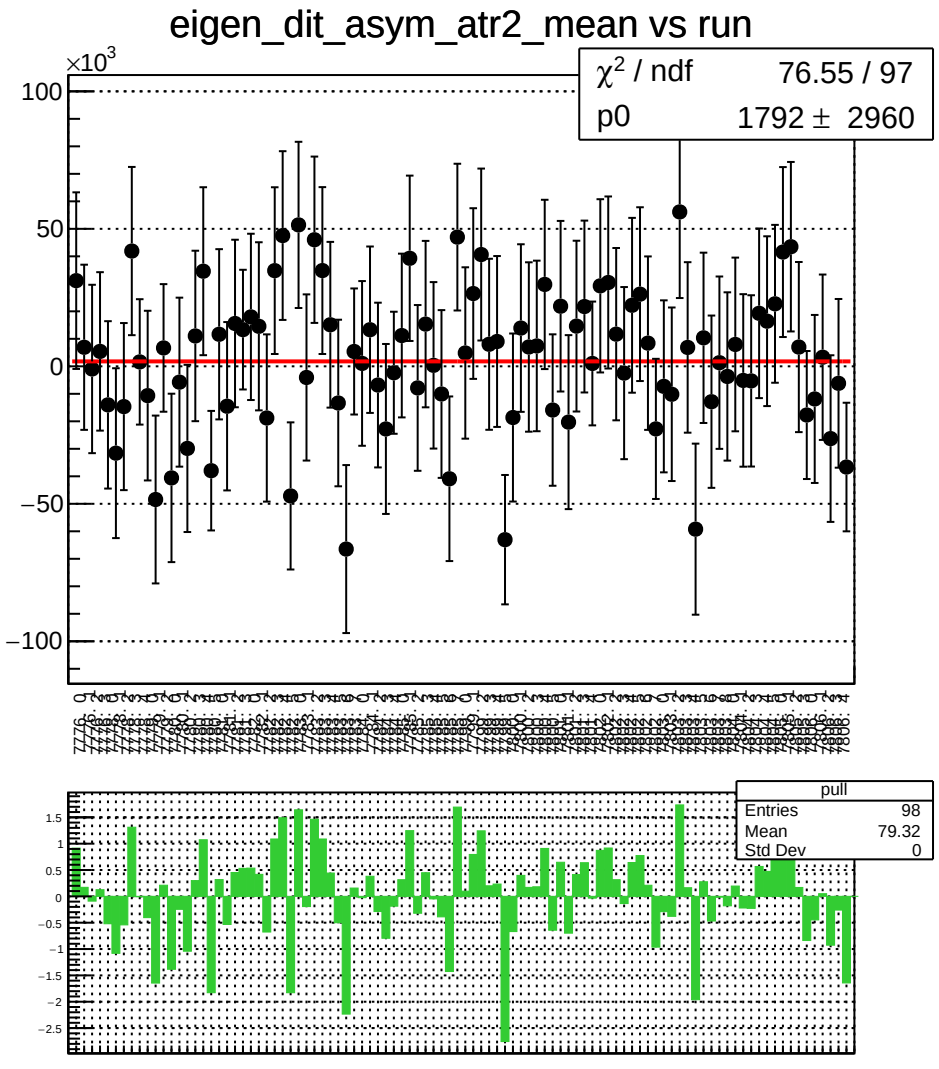

pull1D
Entries 98
Mean 0.02545
Std Dev 0.8834
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

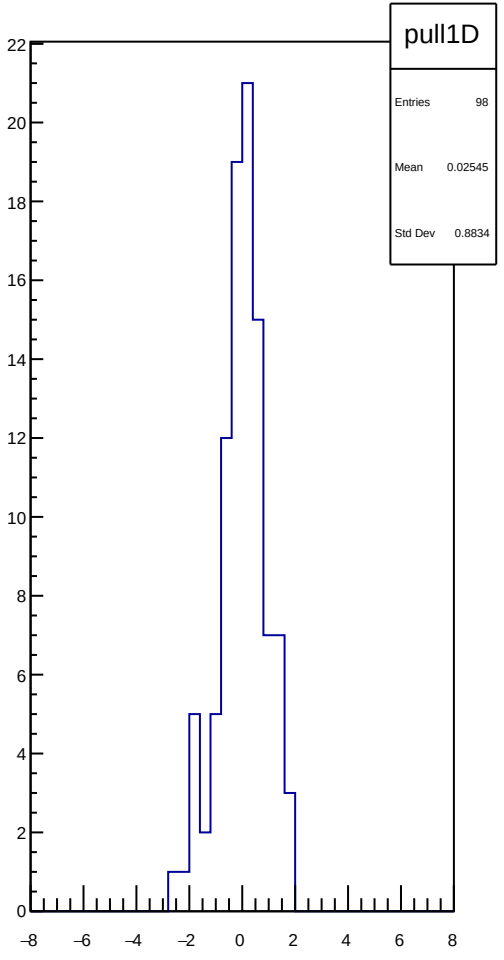

dit_asym_atr2_rms vs run
χ² / ndf 463.2 / 97
p0 2917 ± 2.093
3050
3000
2950
2900
2850
2800

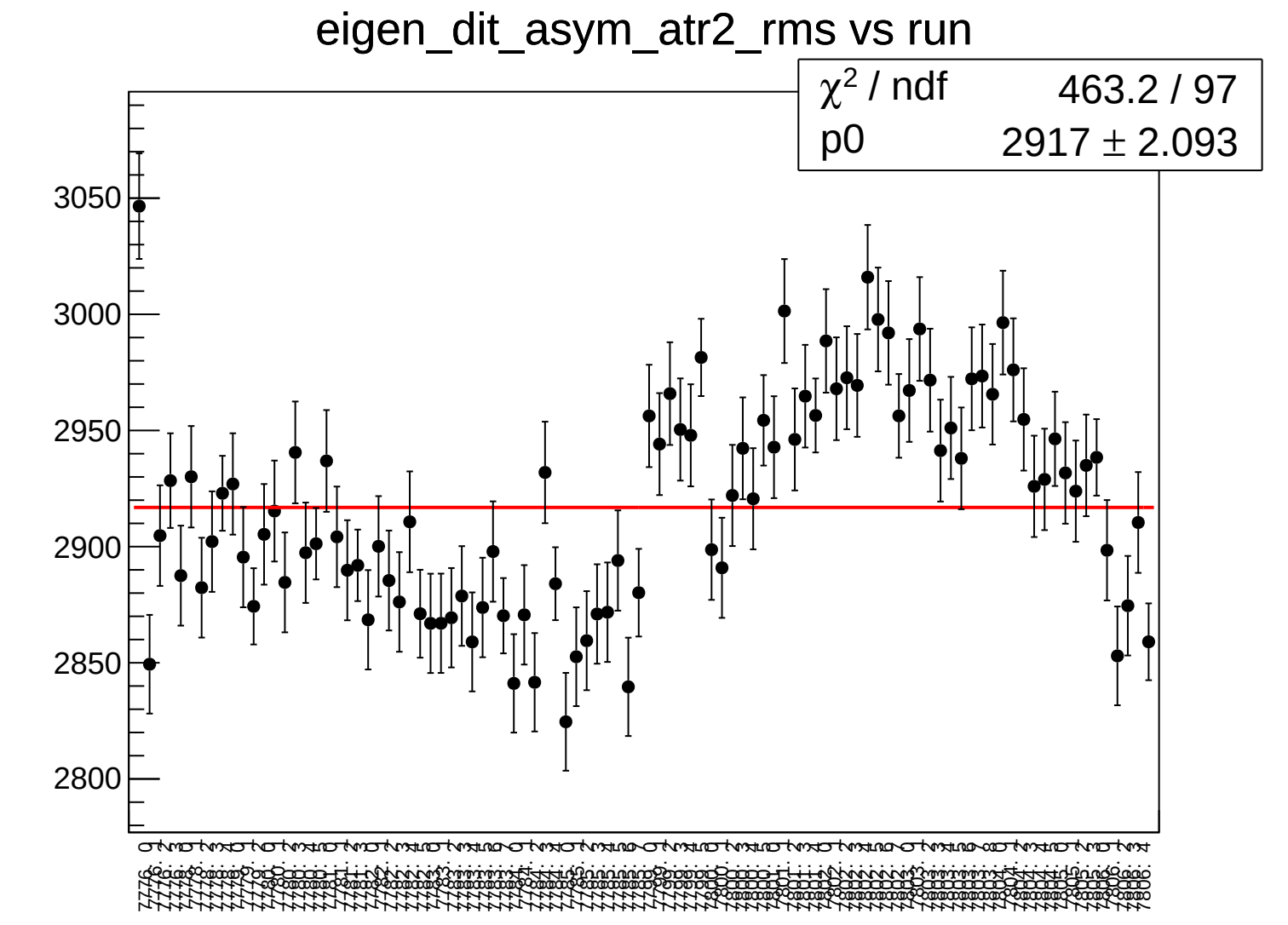

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 81.72 / 97
p0 1.014e+04 ± 1.363e+04
400
200
0
−200
−400
−600
pull
Entries 98
Mean 487.2
Std Dev 0
2
1
0
−1
−2
−3

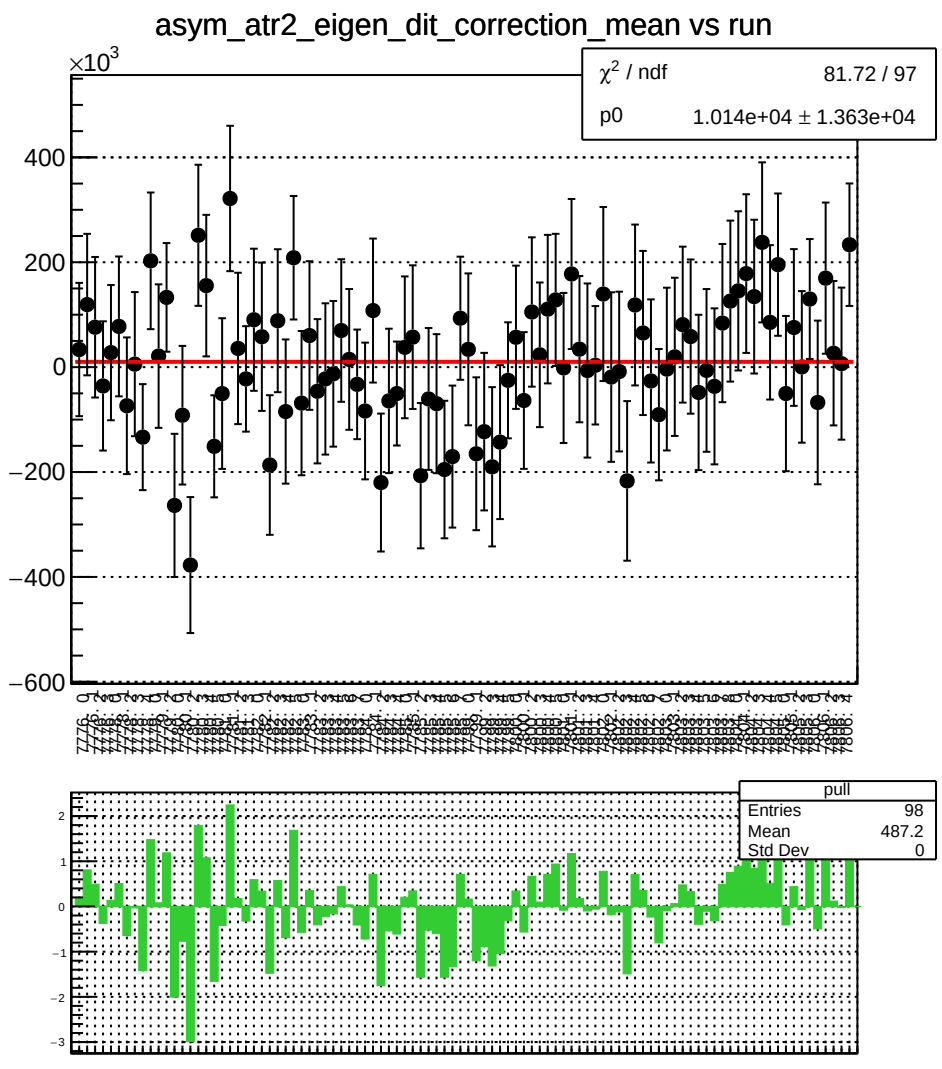

pull1D
Entries 98
Mean 0.01132
Std Dev 0.9131
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

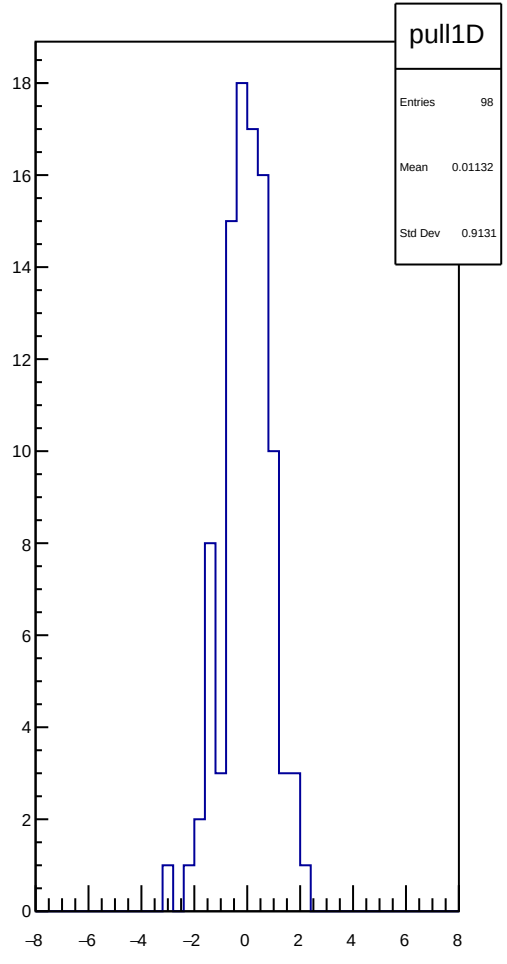

asym_atr2_dit_correction_rms vs run
χ² / ndf 6792 / 97
p0 1.341e+04 ± 9.637
16000
15500
15000
14500
14000
13500
13000
12500
12000

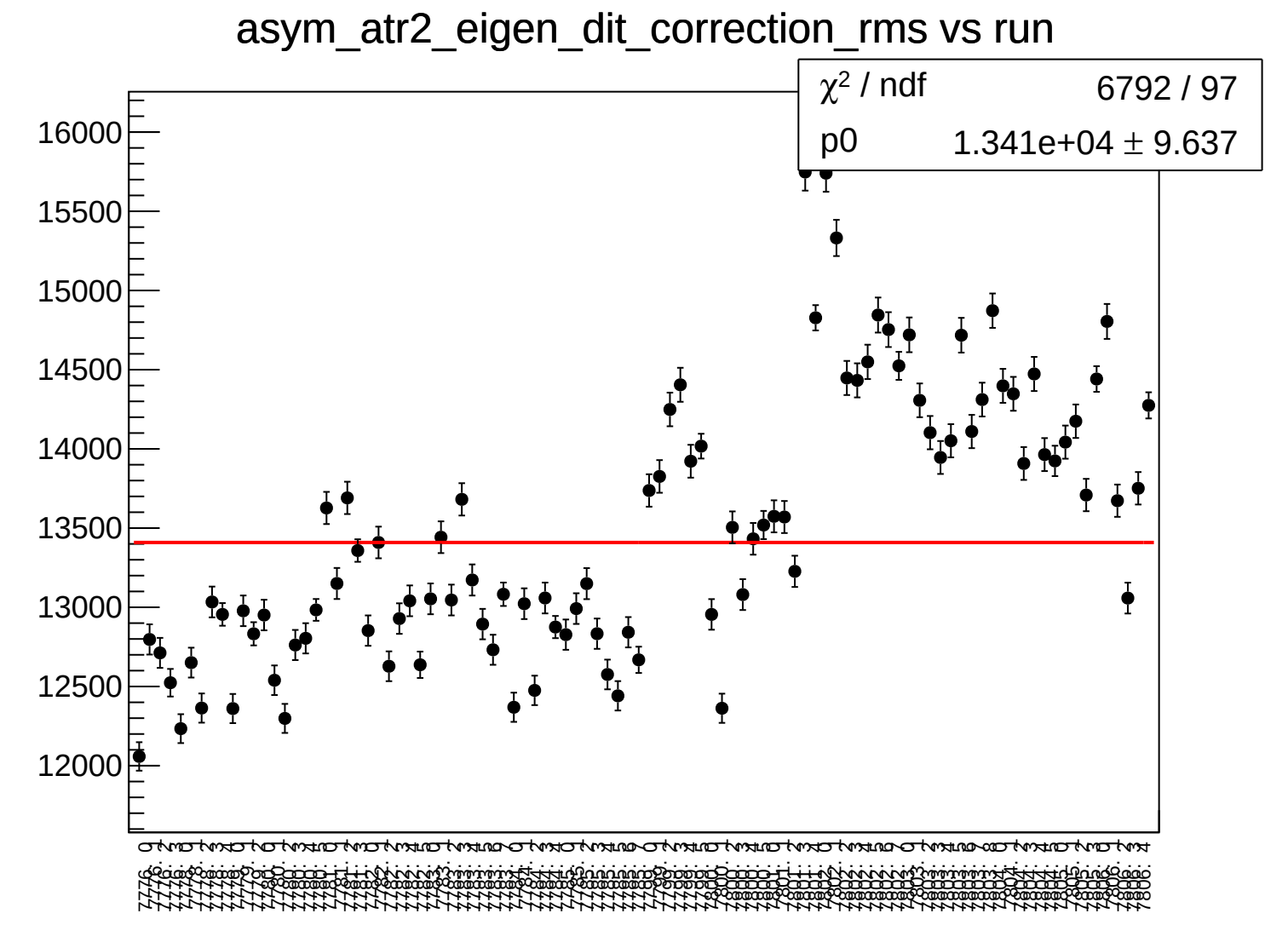

eigen_dit_asym_atr2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 76.55 / 97
p0 1792 ± 2960
pull
Entries 98
Mean 79.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

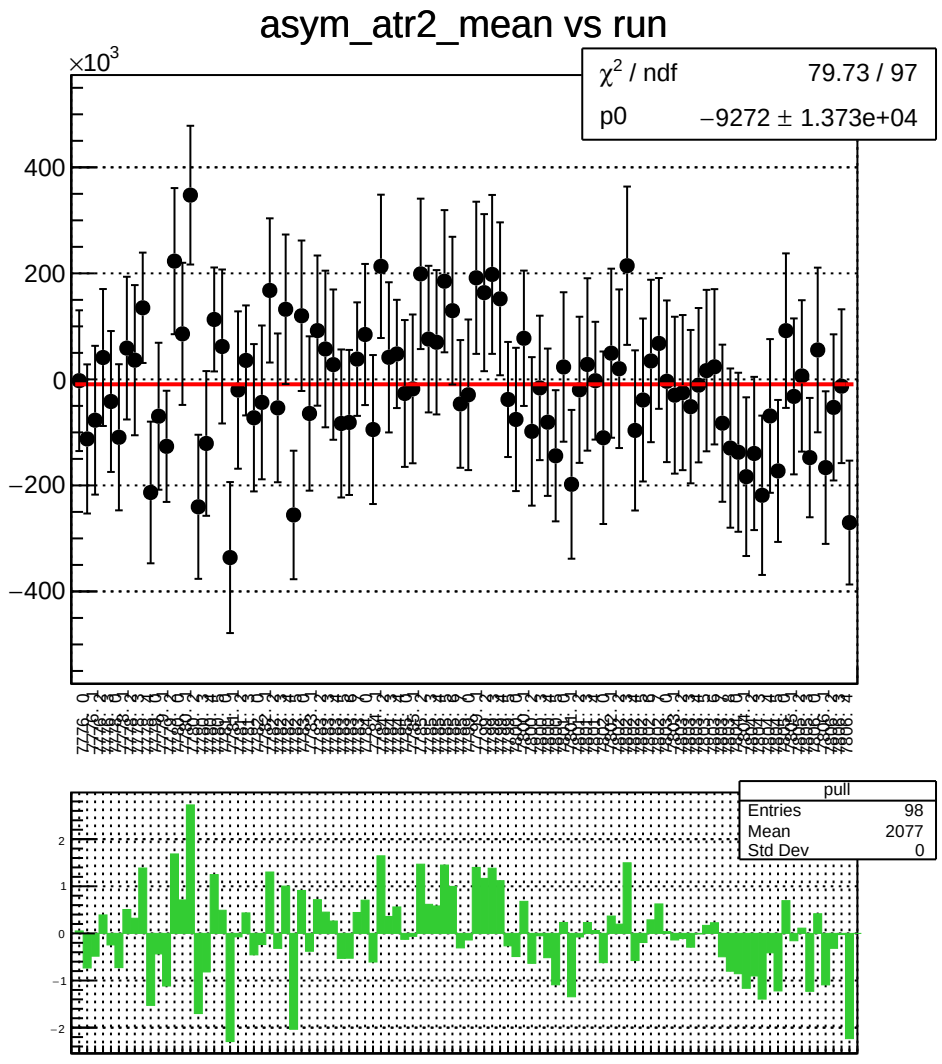

pull1D
Entries 98
Mean 0.02545
Std Dev 0.8834
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

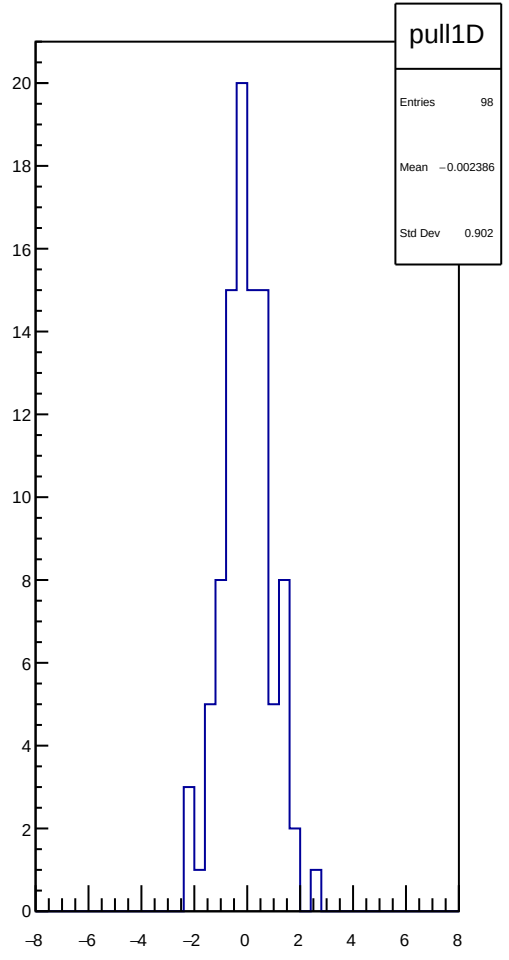

eigen_dit_asym_atr2_rms vs run
χ² / ndf 463.2 / 97
p0 2917 ± 2.093
3050
3000
2950
2900
2850
2800

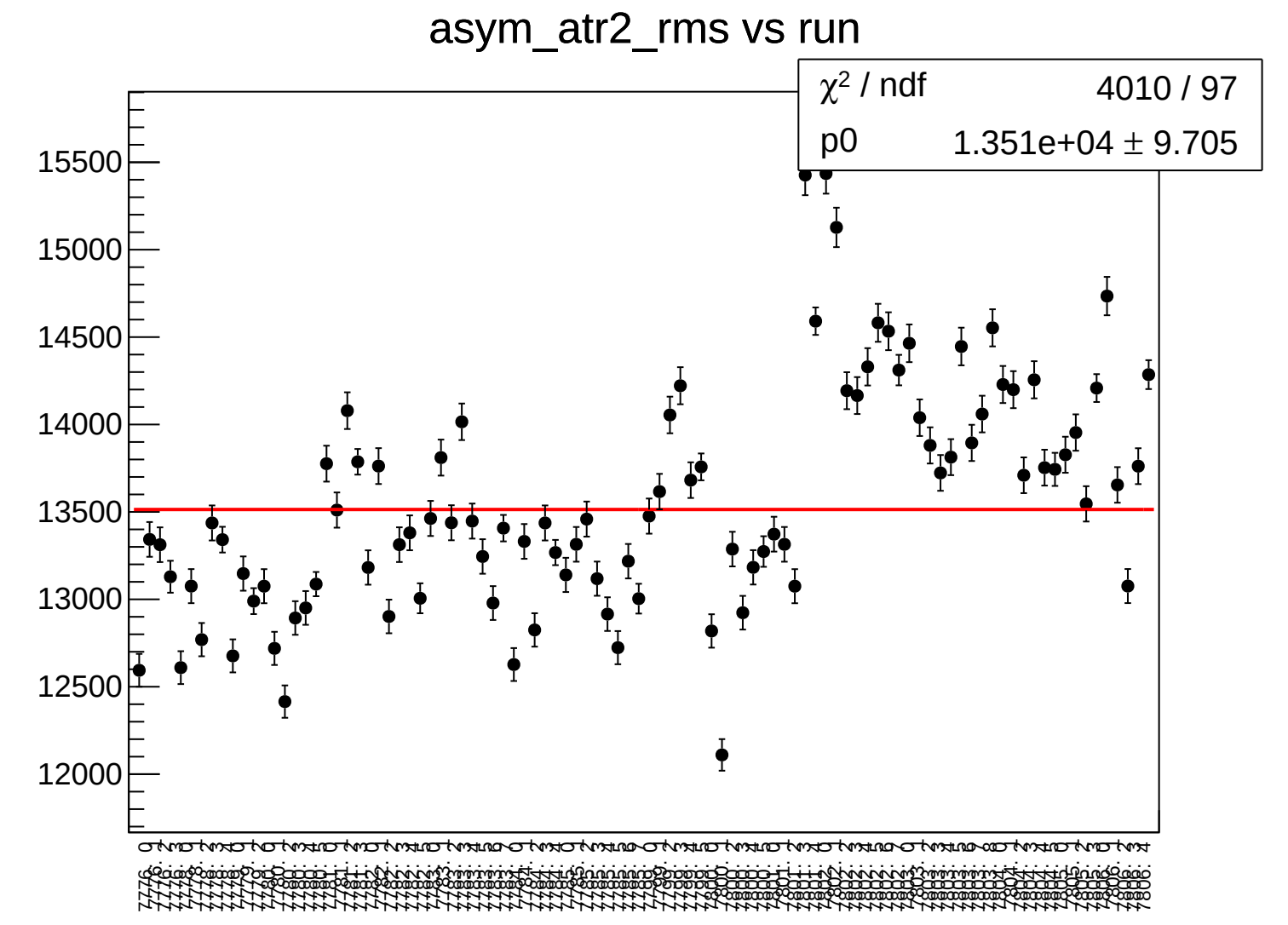

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.72 / 97
p0 1.014e+04 ± 1.363e+04
400
200
0
−200
−400
−600
pull
Entries 98
Mean 487.2
Std Dev 0
2
1
0
−1
−2
−3

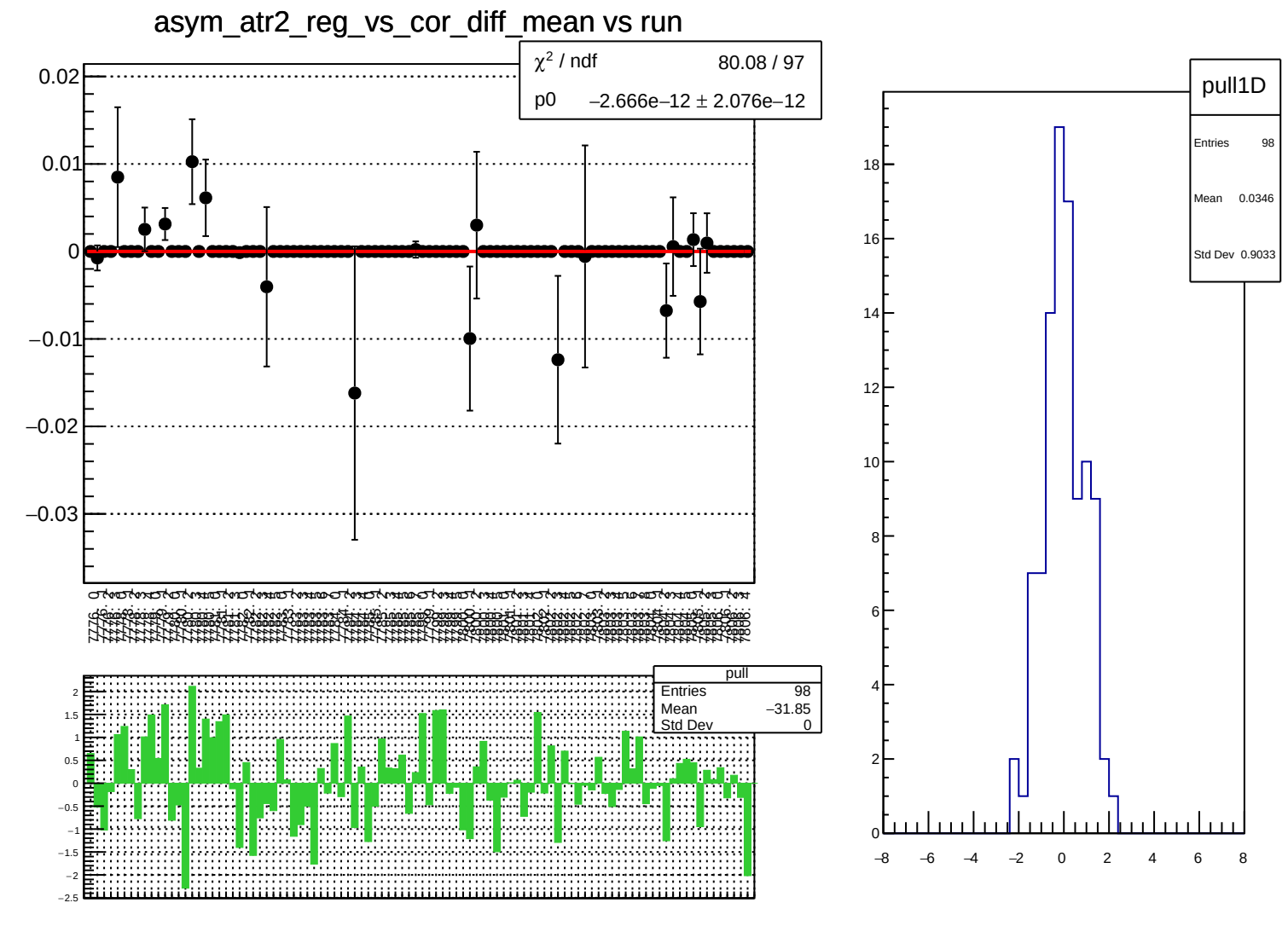

pull1D
Entries 98
Mean 0.01132
Std Dev 0.9131
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

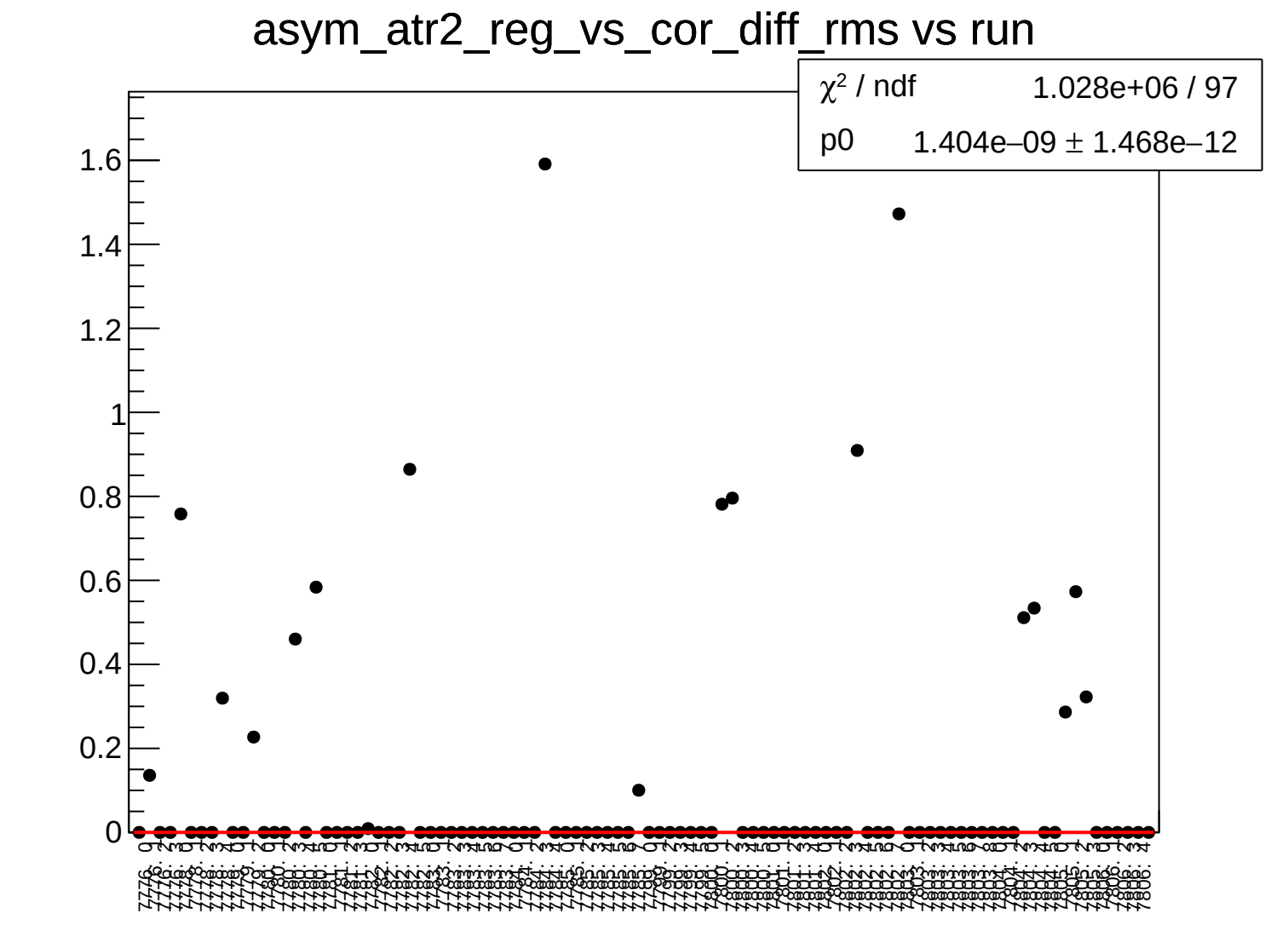

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 6792 / 97
p0 1.341e+04 ± 9.637
16000
15500
15000
14500
14000
13500
13000
12500
12000

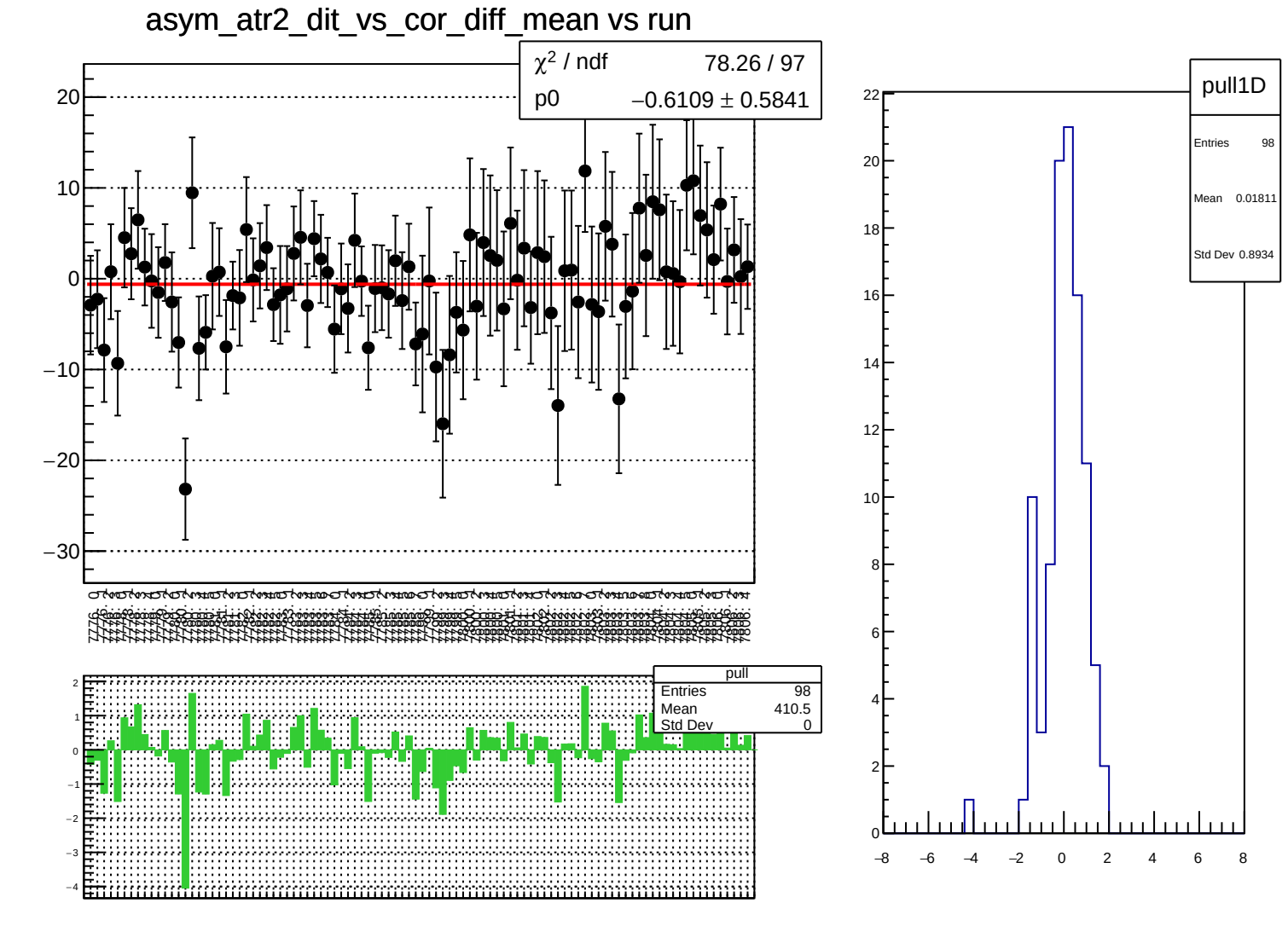

asym_atr2_mean vs run
×10^3
χ² / ndf 79.73 / 97
p0 −9272 ± 1.373e+04
400
200
0
−200
−400
pull
Entries 98
Mean 2077
Std Dev 0
2
1
0
−1
−2

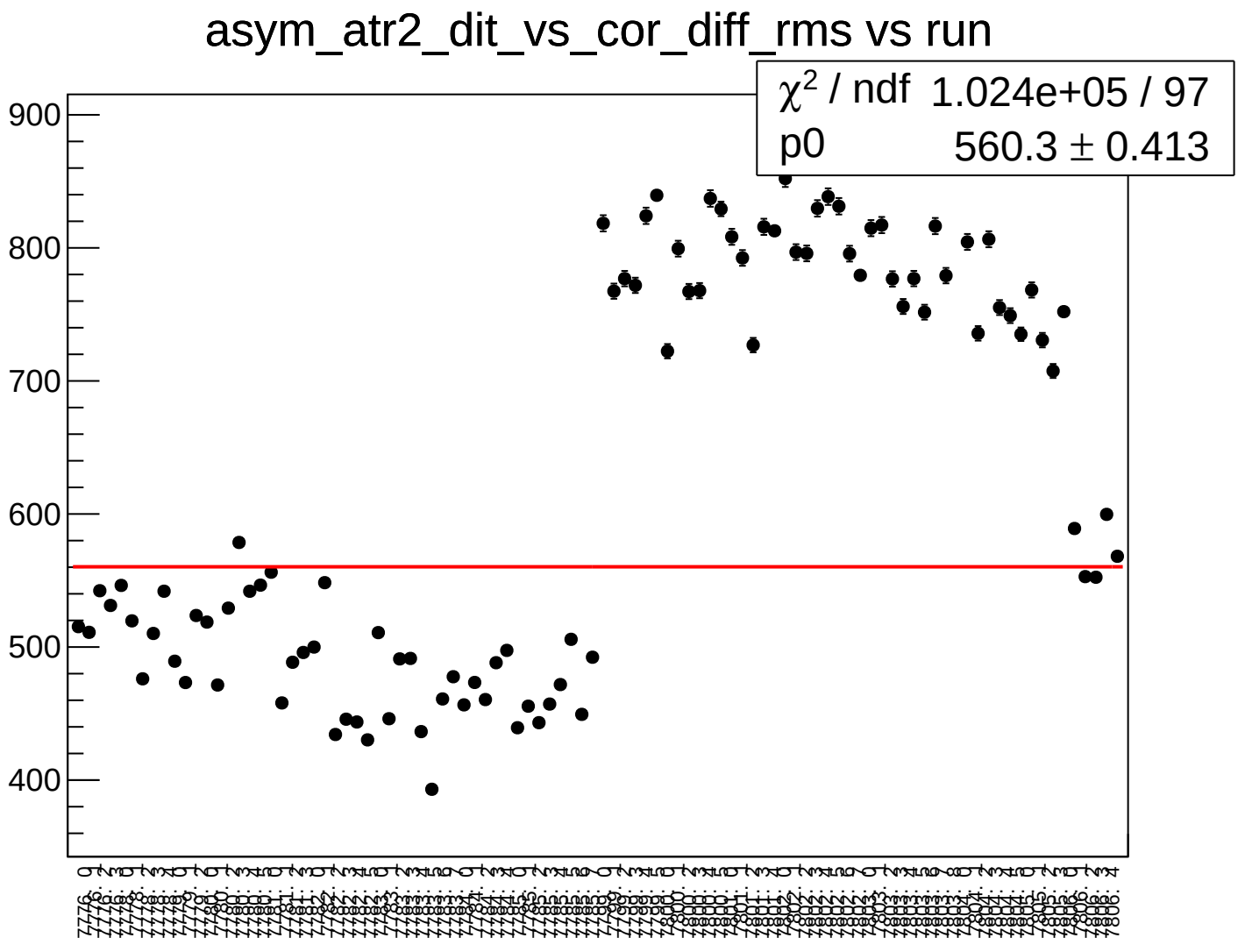

pull1D
Entries 98
Mean −0.002386
Std Dev 0.902
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

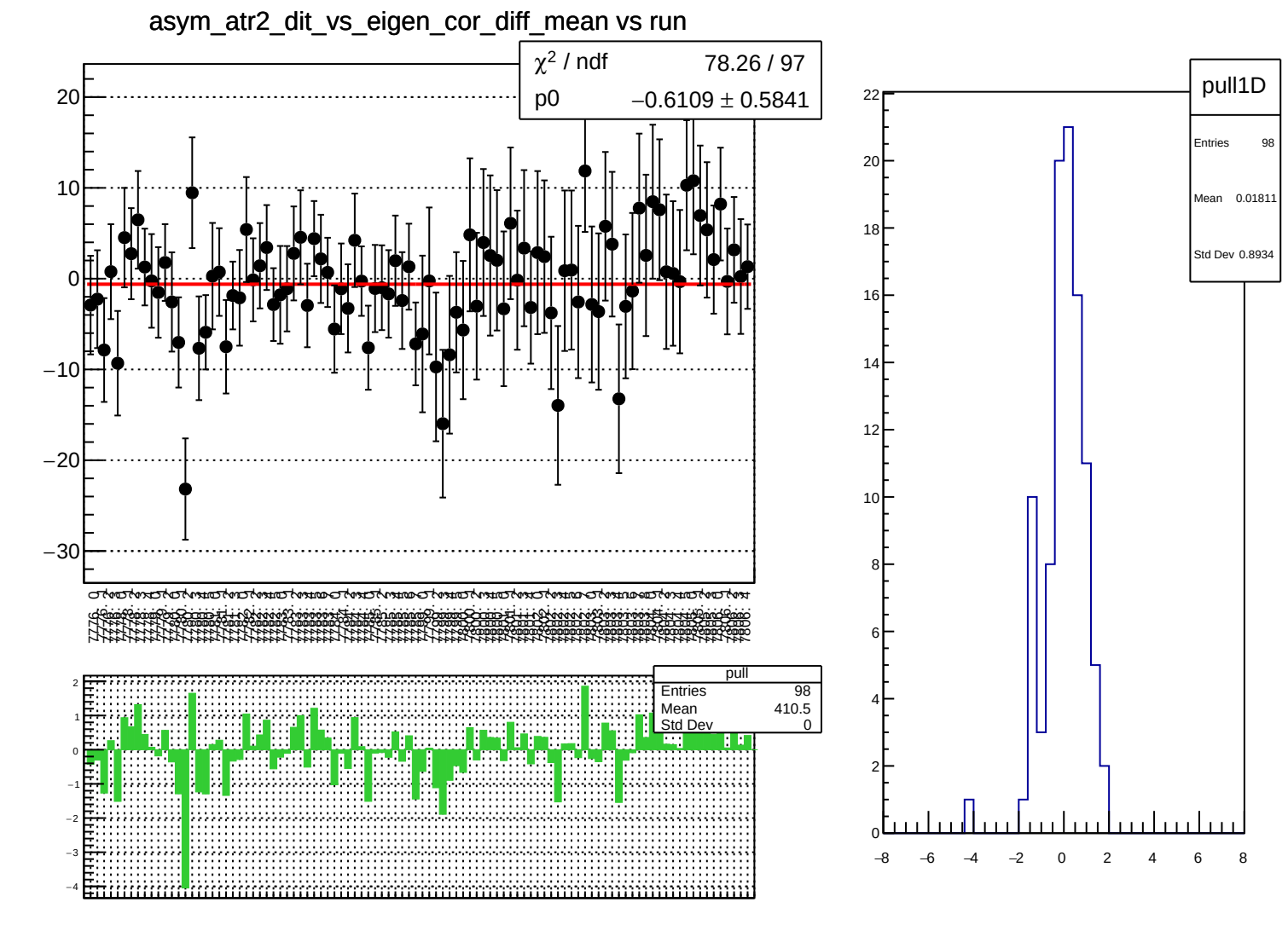

asym_atr2_rms vs run
χ² / ndf 4010 / 97
p0 1.351e+04 ± 9.705
15500
15000
14500
14000
13500
13000
12500
12000

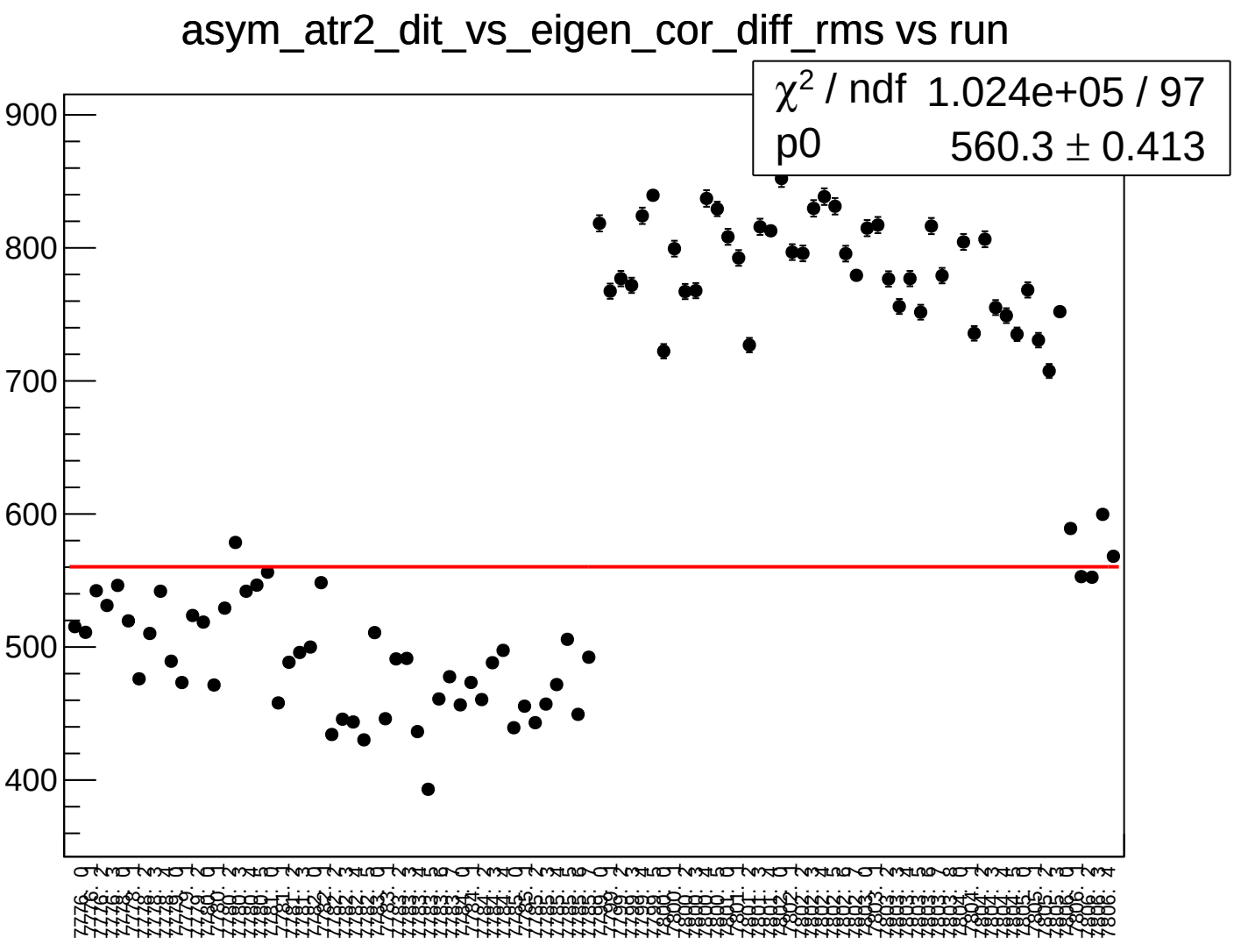

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 80.08 / 97
p0 −2.666e−12 ± 2.076e−12
pull
Entries 98
Mean −31.85
Std Dev 0
pull1D
Entries 98
Mean 0.0346
Std Dev 0.9033

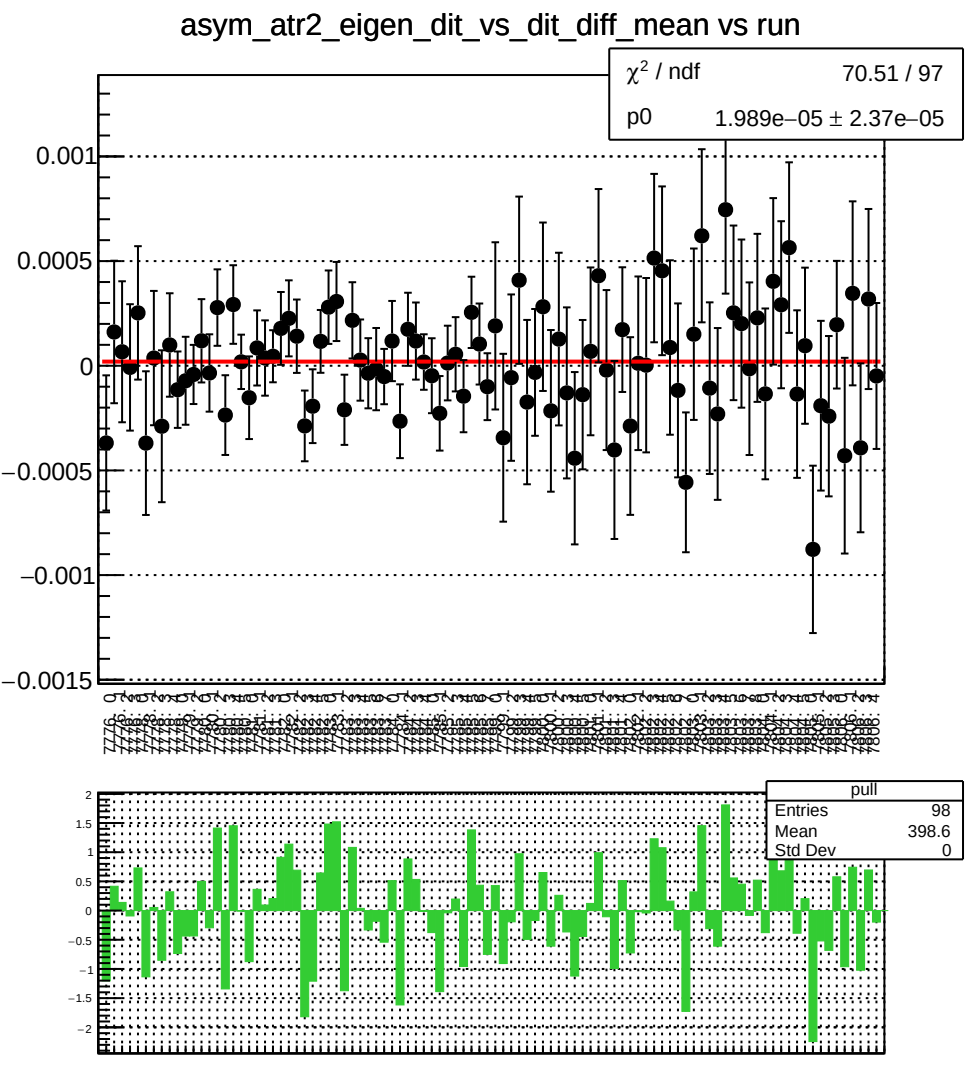

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.028e+06 / 97
p0 1.404e−09 ± 1.468e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

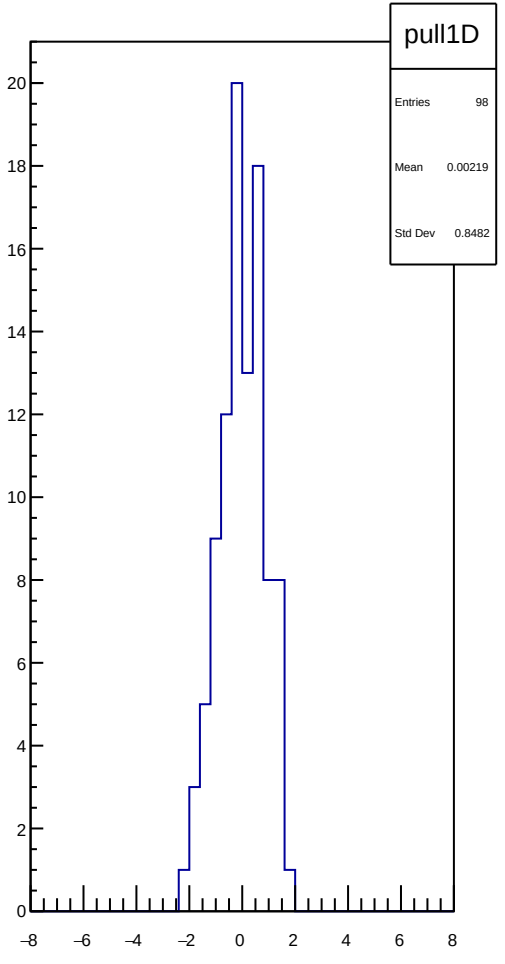

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 78.26 / 97
p0 −0.6109 ± 0.5841
pull
Entries 98
Mean 410.5
Std Dev 0
pull1D
Entries 98
Mean 0.01811
Std Dev 0.8934

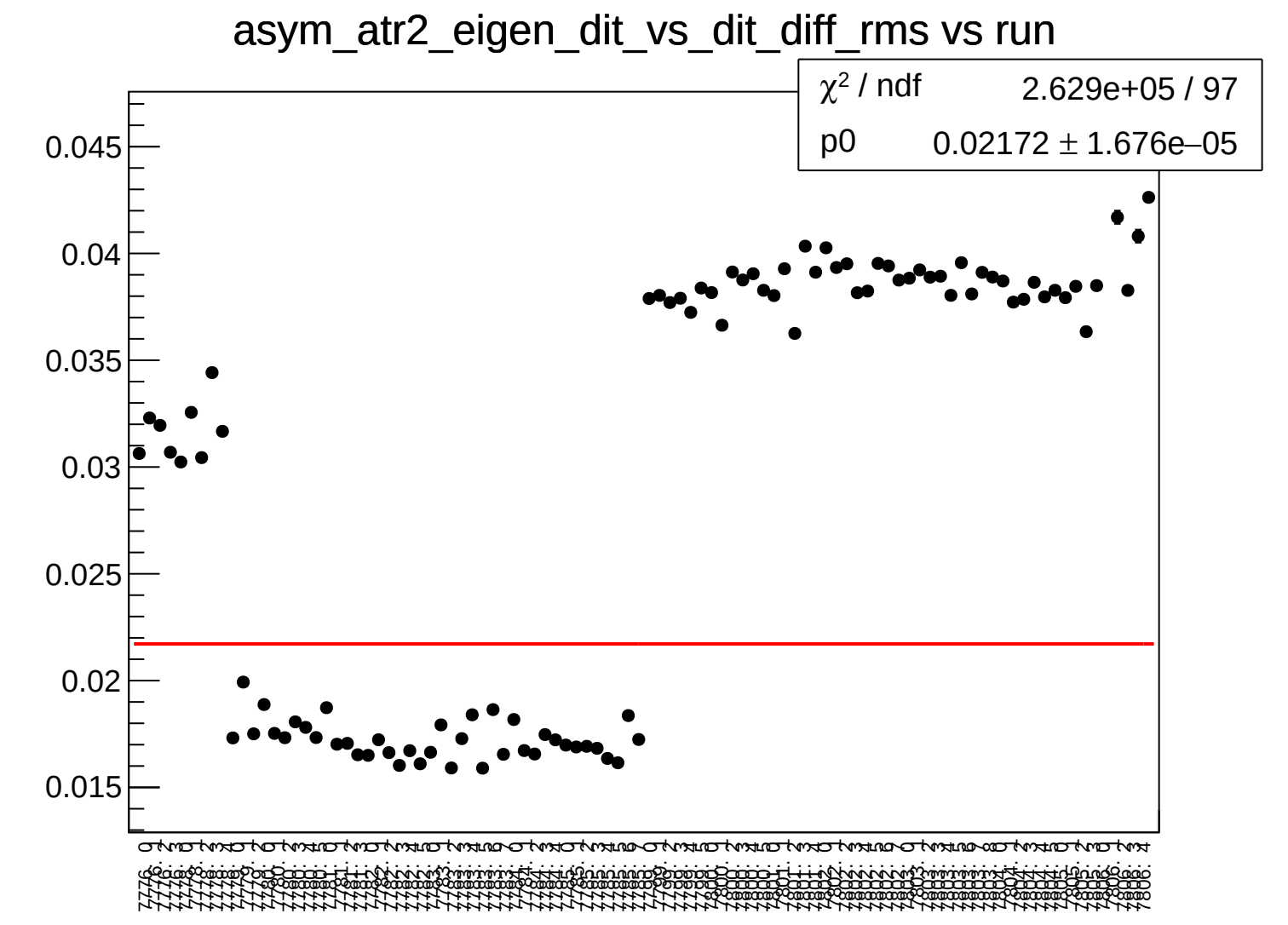

asym_atr2_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.024e+05 / 97
p0 560.3 ± 0.413
900
800
700
600
500
400

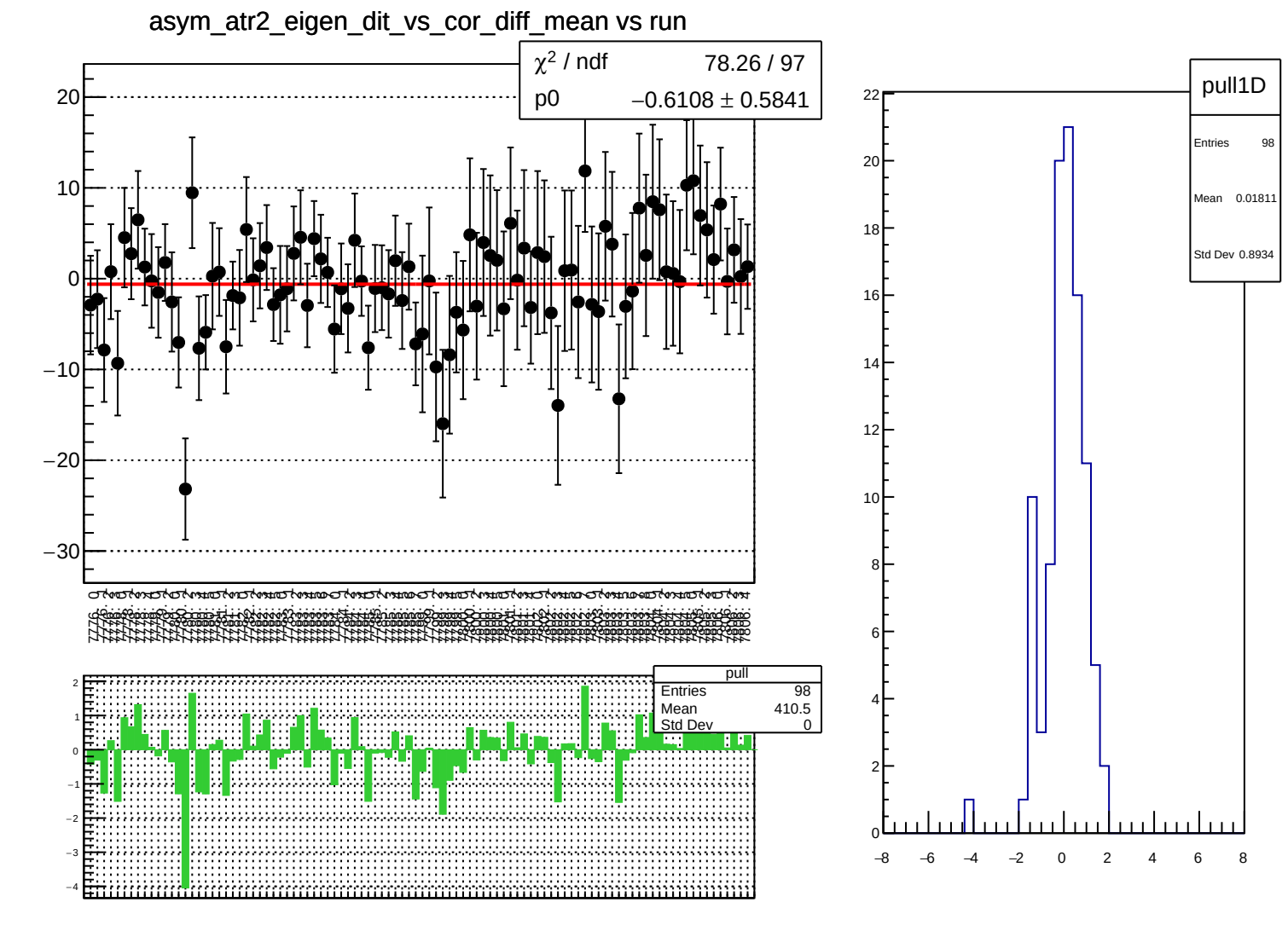

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.26 / 97
p0 −0.6109 ± 0.5841
pull
Entries 98
Mean 410.5
Std Dev 0
pull1D
Entries 98
Mean 0.01811
Std Dev 0.8934

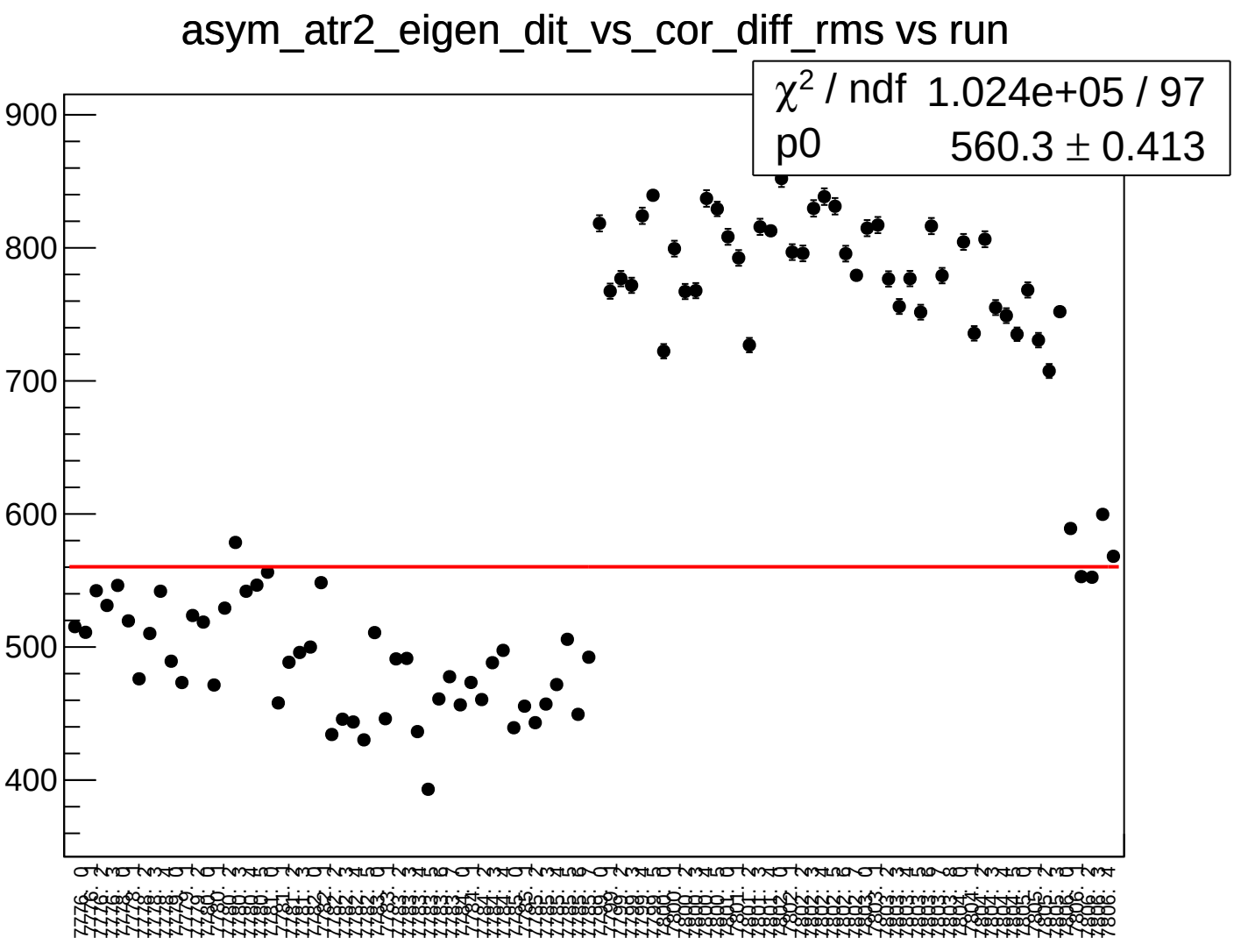

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.024e+05 / 97
p0 560.3 ± 0.413
900
800
700
600
500
400

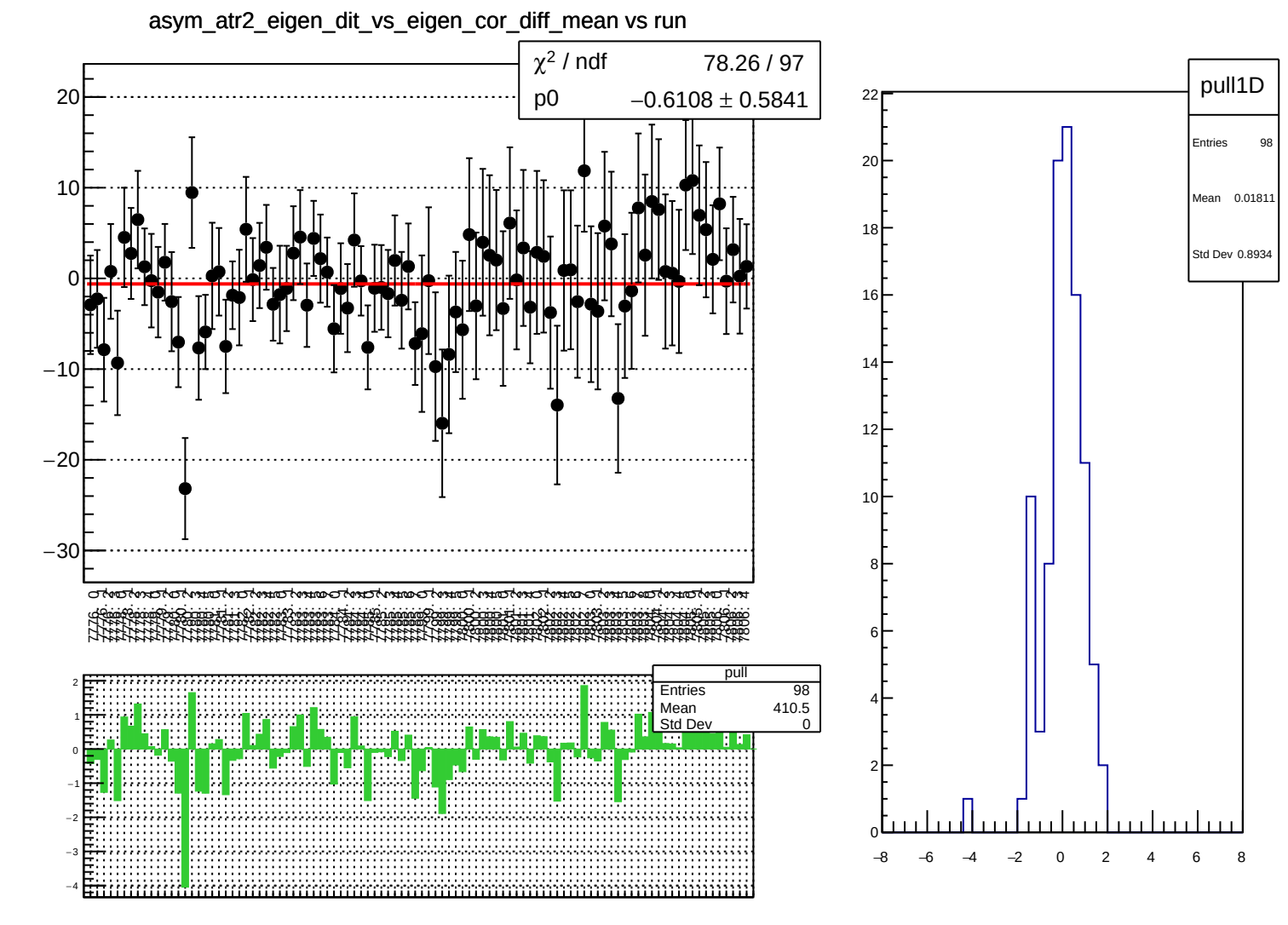

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 70.51 / 97
p0 1.989e−05 ± 2.37e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 98
Mean 398.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

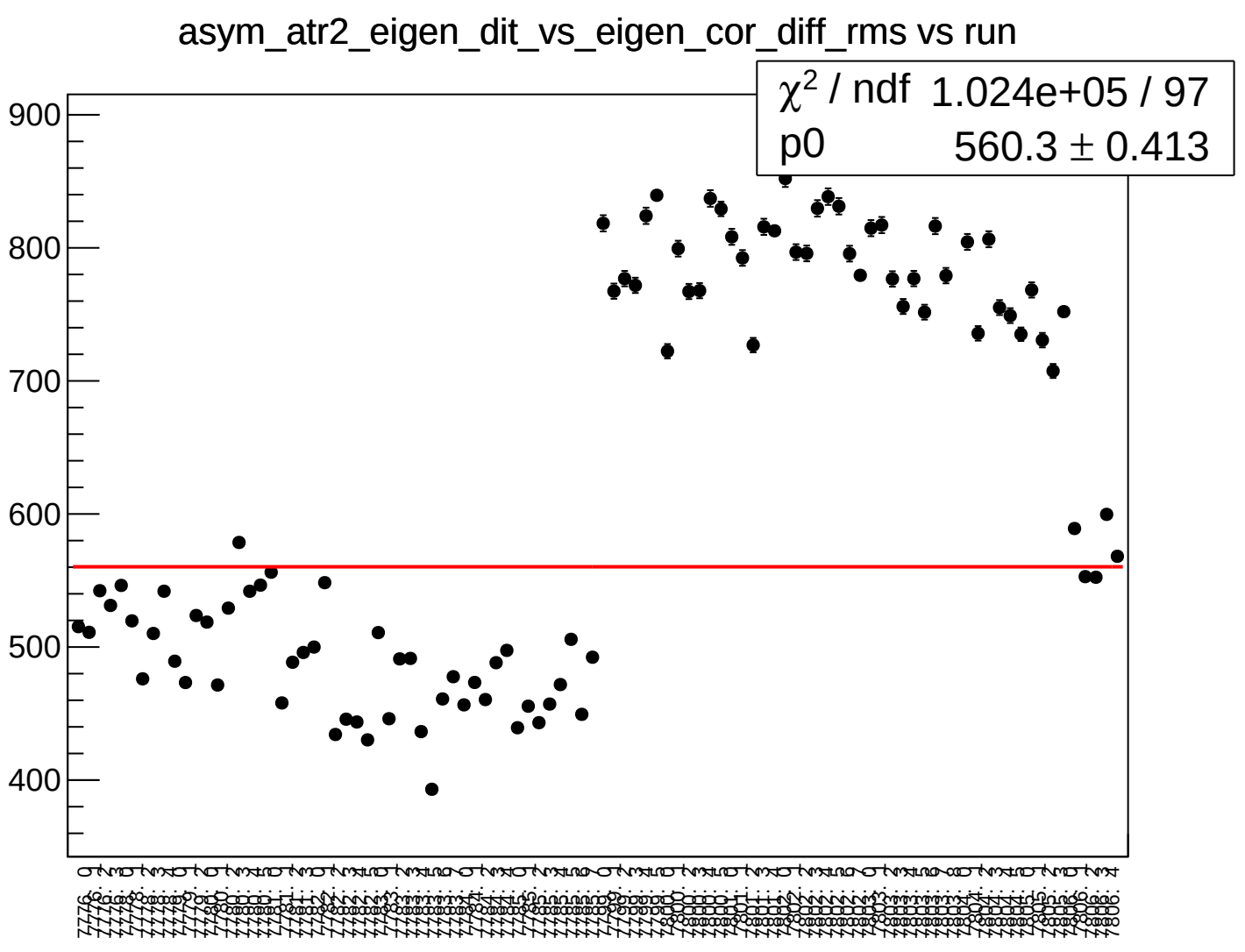

pull1D
Entries 98
Mean 0.00219
Std Dev 0.8482
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

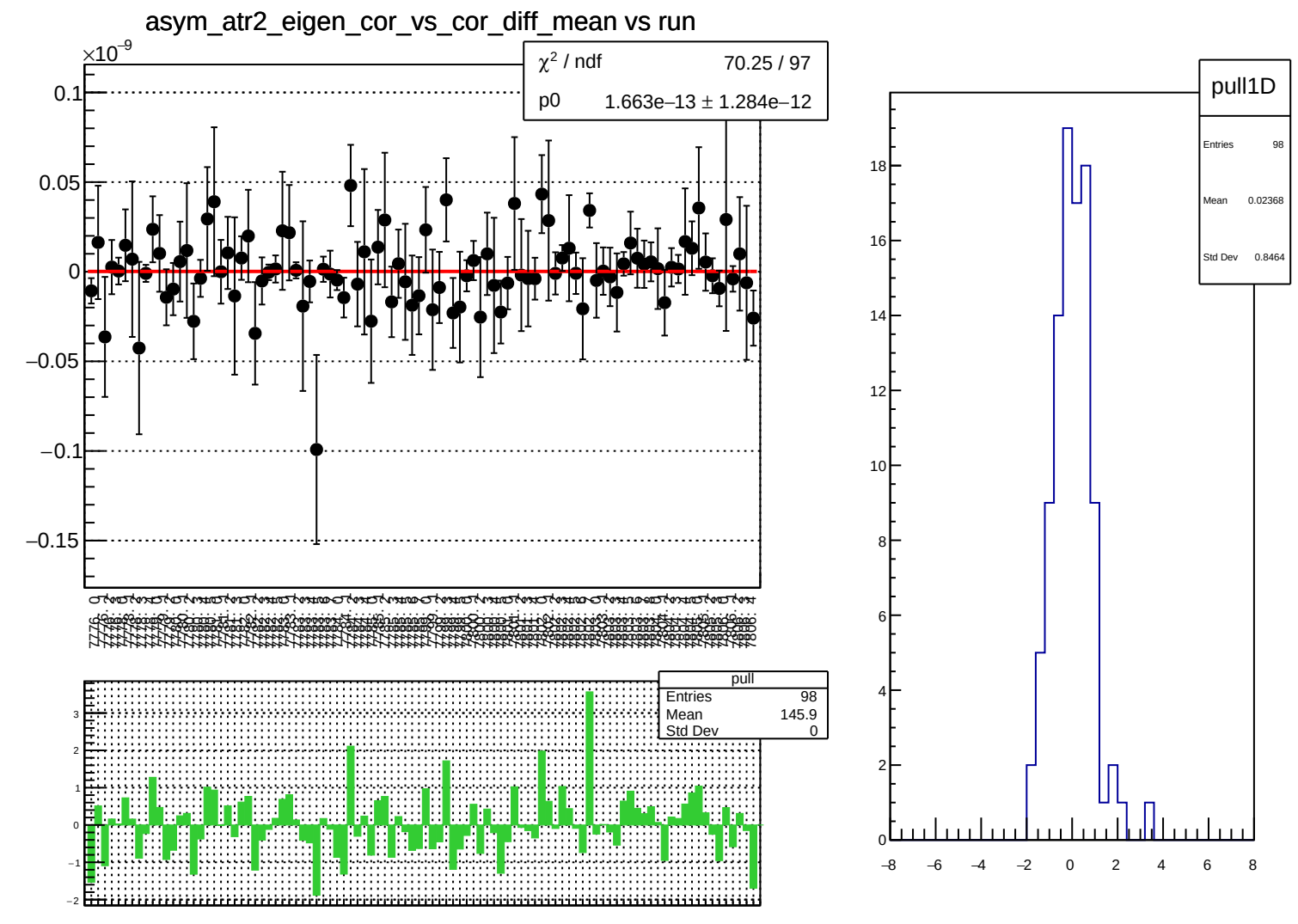

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.629e+05 / 97
p0 0.02172 ± 1.676e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

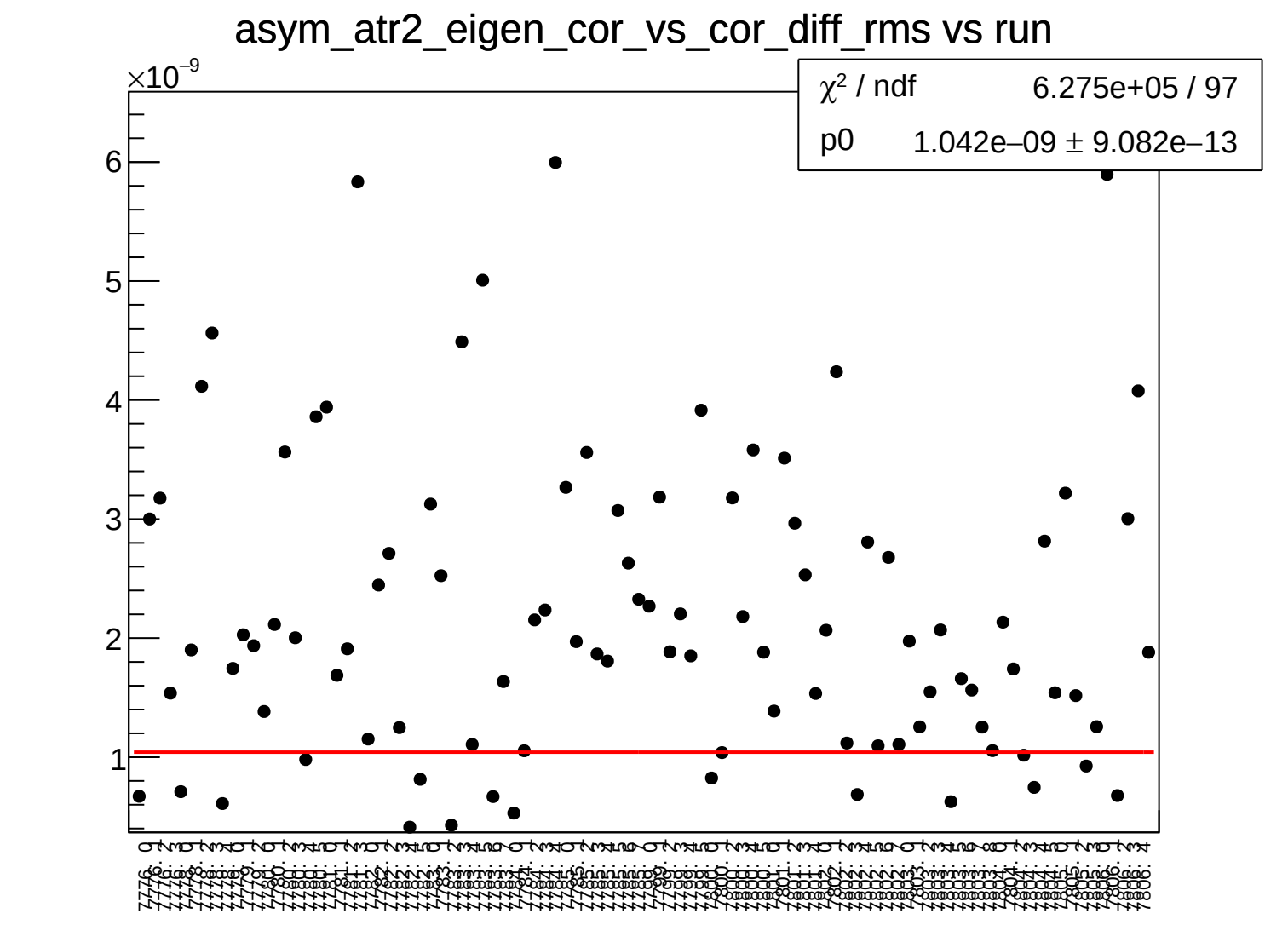

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.26 / 97
p0 −0.6108 ± 0.5841
pull
Entries 98
Mean 410.5
Std Dev 0
pull1D
Entries 98
Mean 0.01811
Std Dev 0.8934

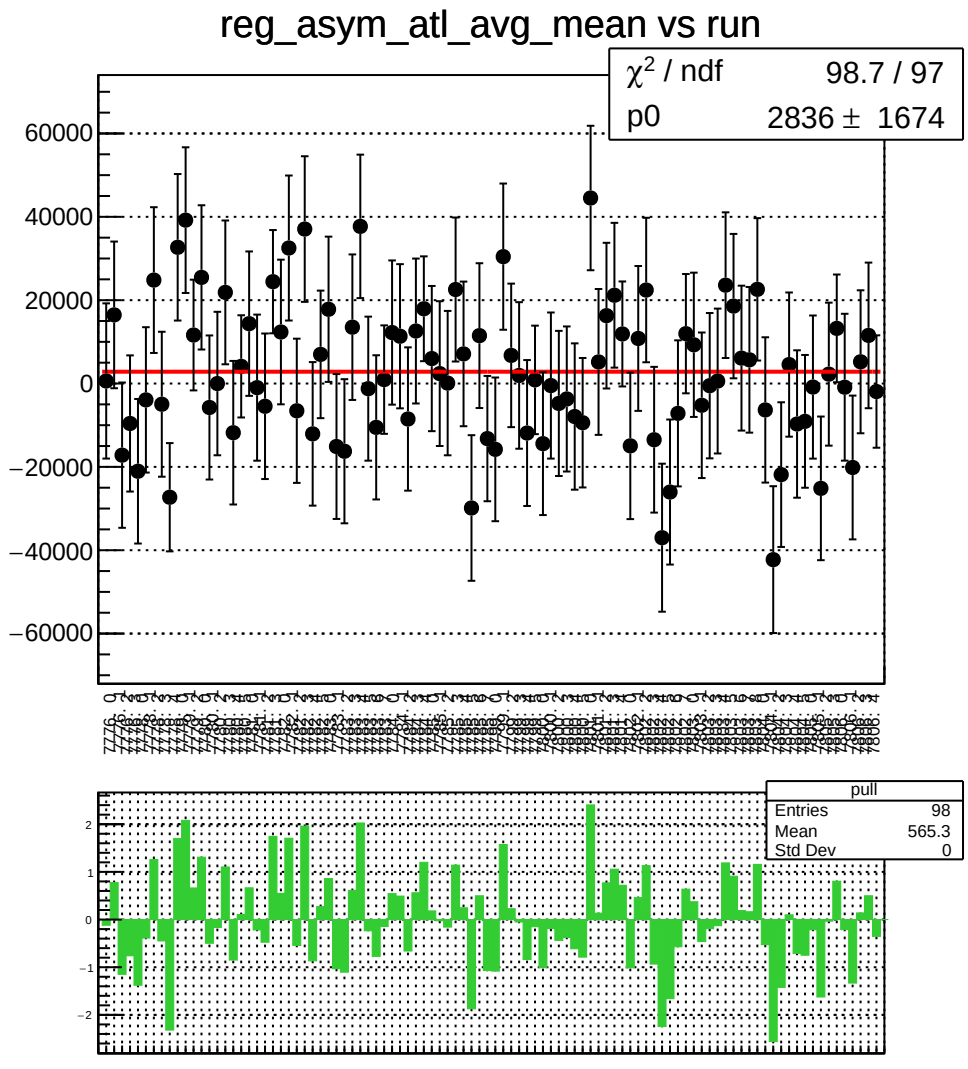

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.024e+05 / 97
p0 560.3 ± 0.413
900
800
700
600
500
400

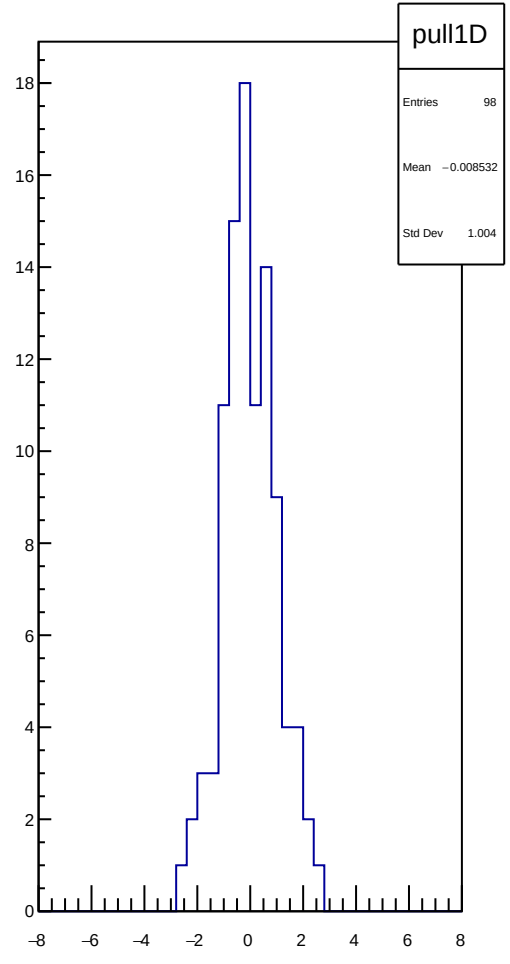

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.26 / 97
p0 −0.6108 ± 0.5841
pull
Entries 98
Mean 410.5
Std Dev 0
pull1D
Entries 98
Mean 0.01811
Std Dev 0.8934

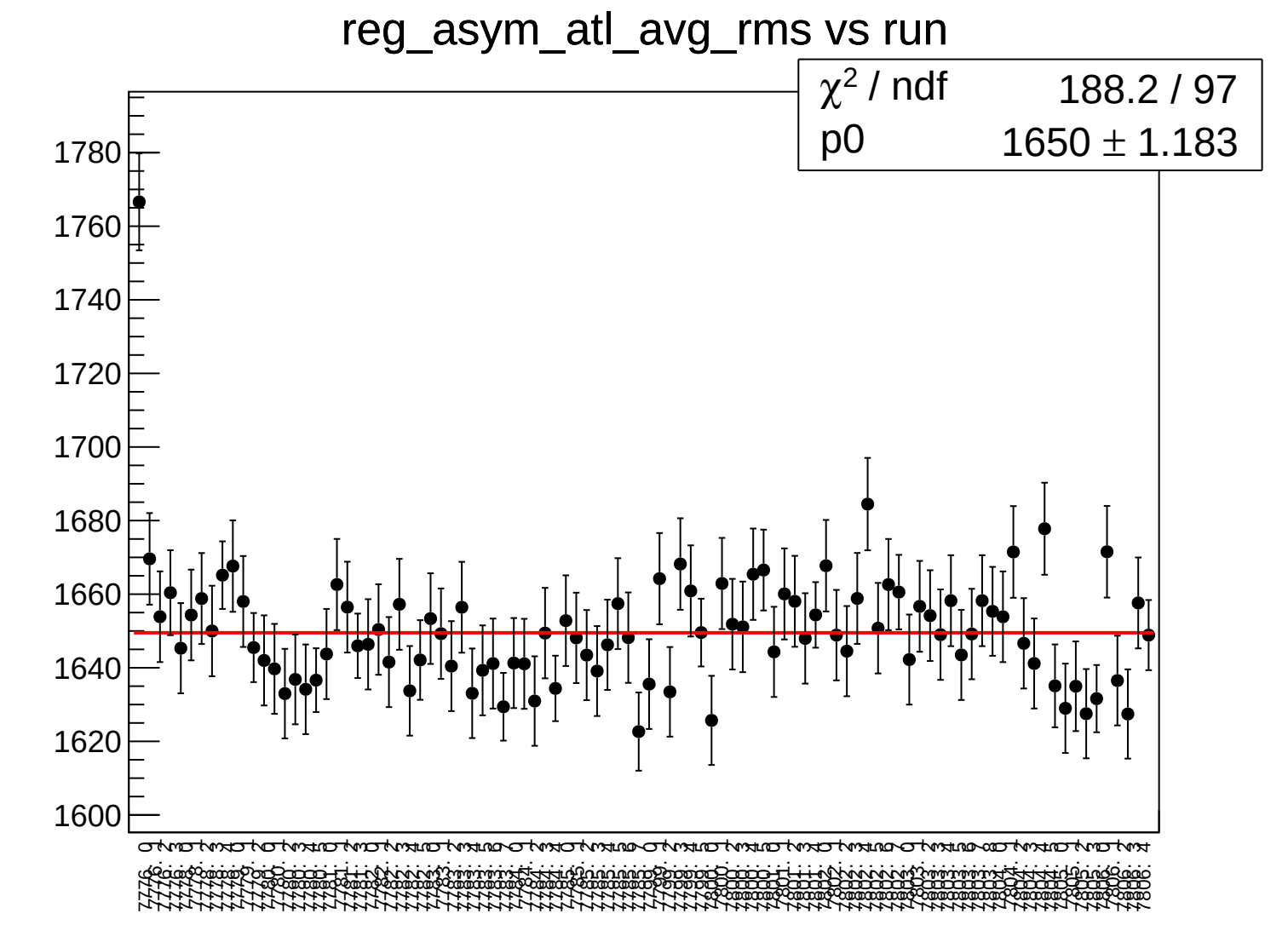

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.024e+05 / 97
p0 560.3 ± 0.413
900
800
700
600
500
400

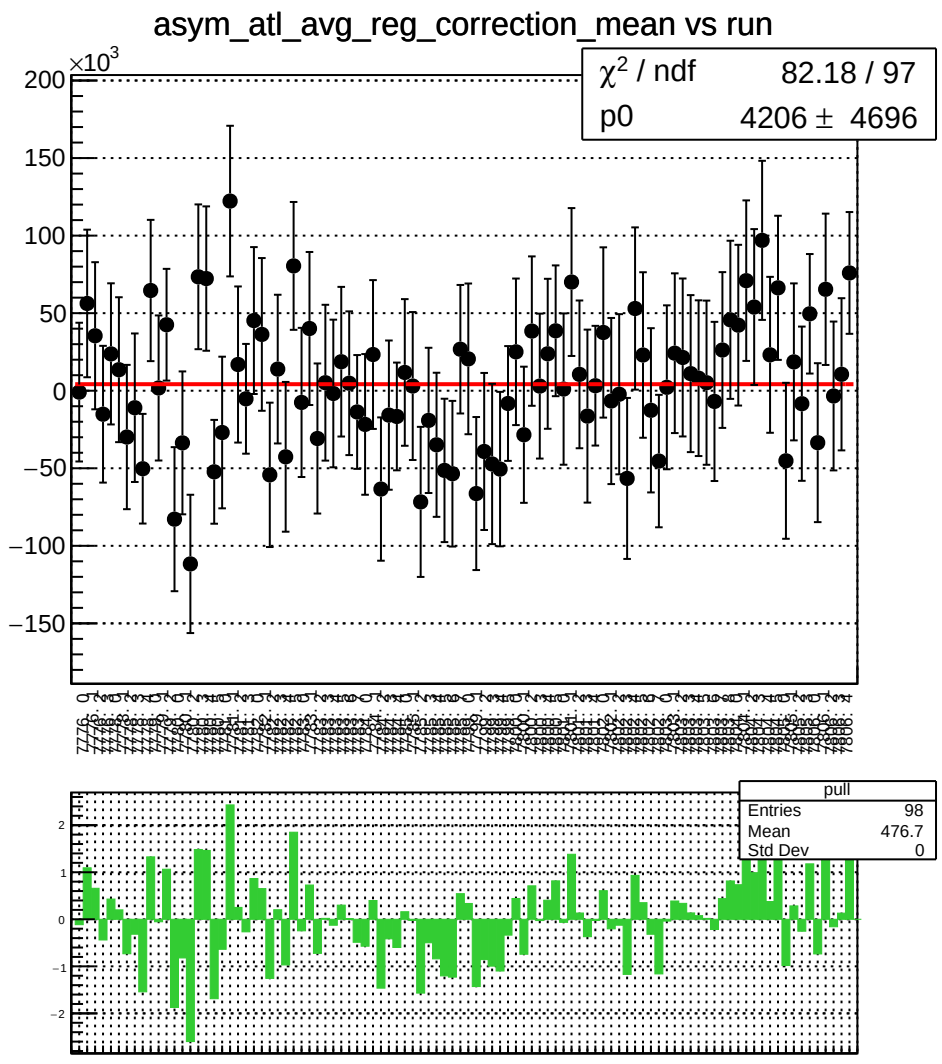

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 70.25 / 97
p0 1.663e−13 ± 1.284e−12
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 98
Mean 145.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02368
Std Dev 0.8464
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

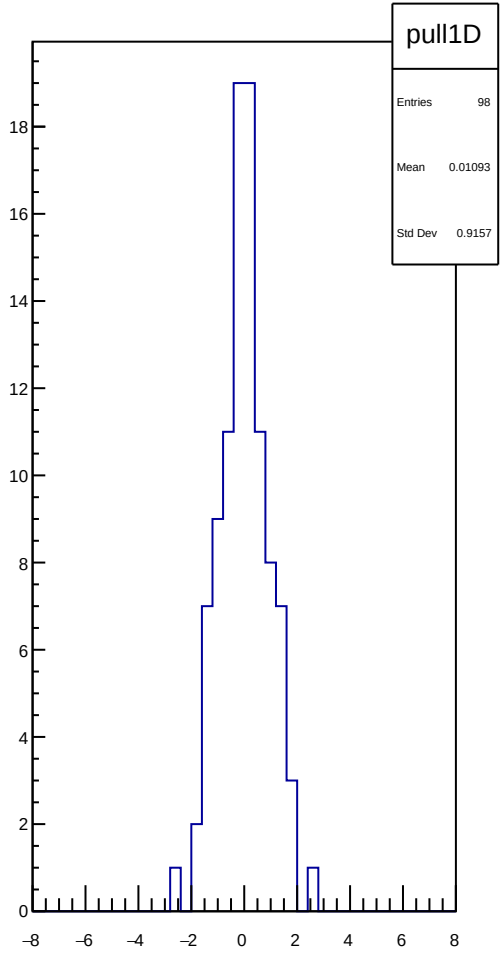

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.275e+05 / 97
p0 1.042e−09 ± 9.082e−13
6
5
4
3
2
1

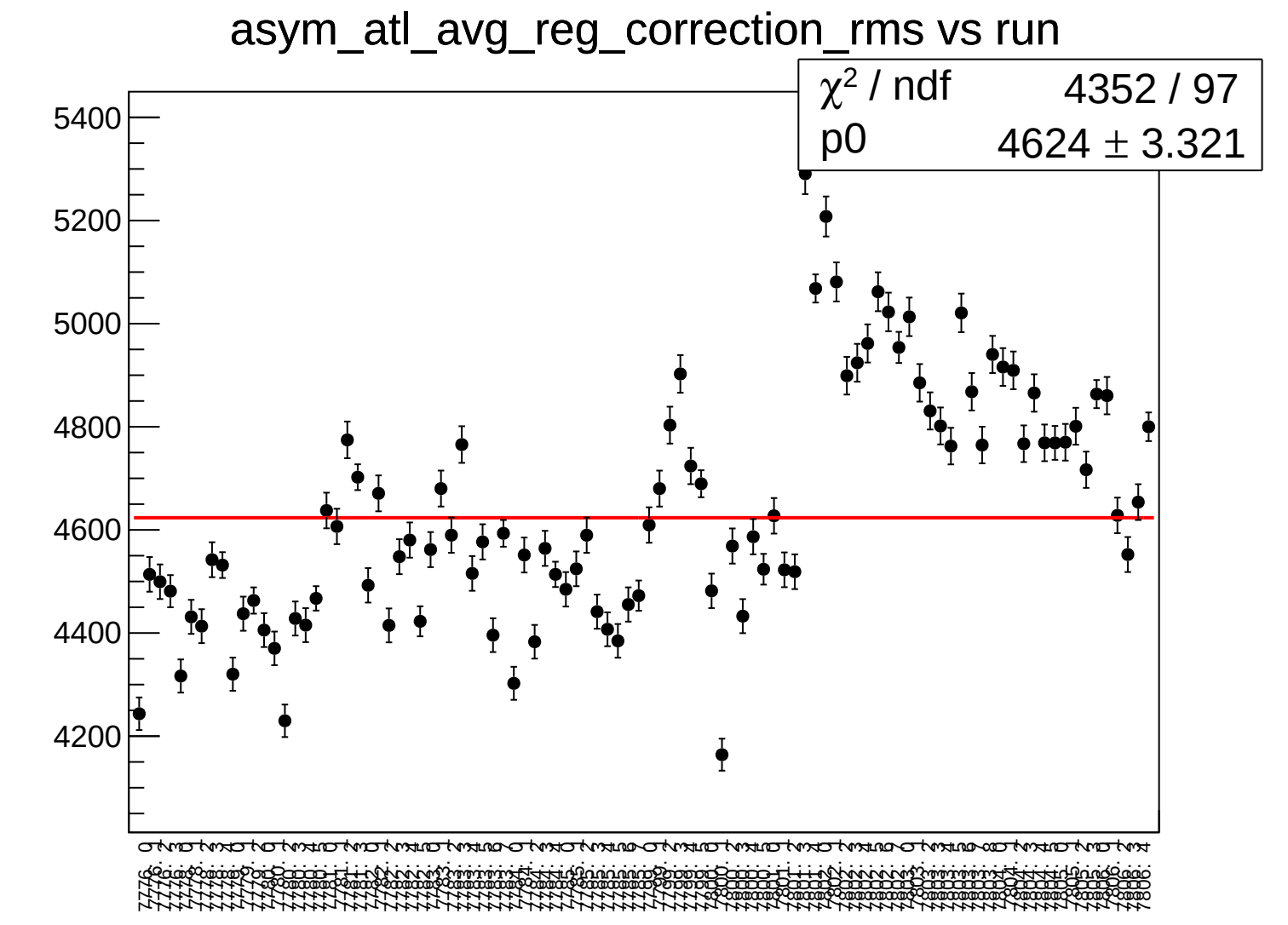

reg_asym_atl_avg_mean vs run
χ² / ndf 98.7 / 97
p0 2836 ± 1674
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 565.3
Std Dev 0
2
1
0
−1
−2

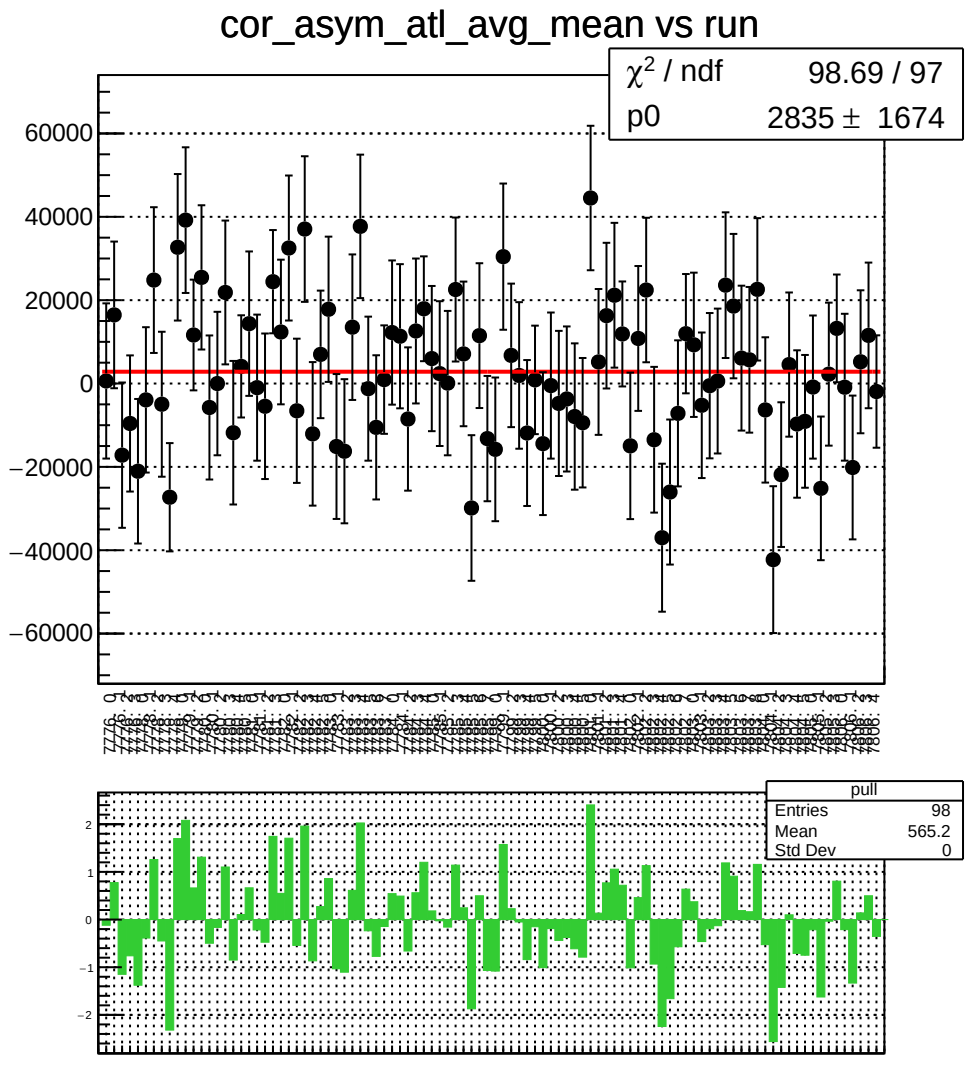

pull1D
Entries 98
Mean −0.008532
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

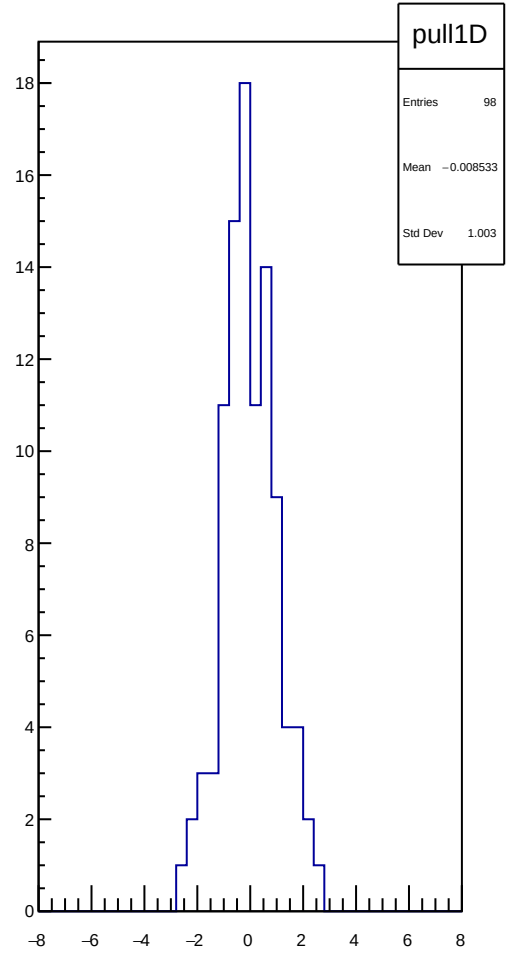

reg_asym_atl_avg_rms vs run
χ^2 / ndf 188.2 / 97
p0 1650 ± 1.183
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600

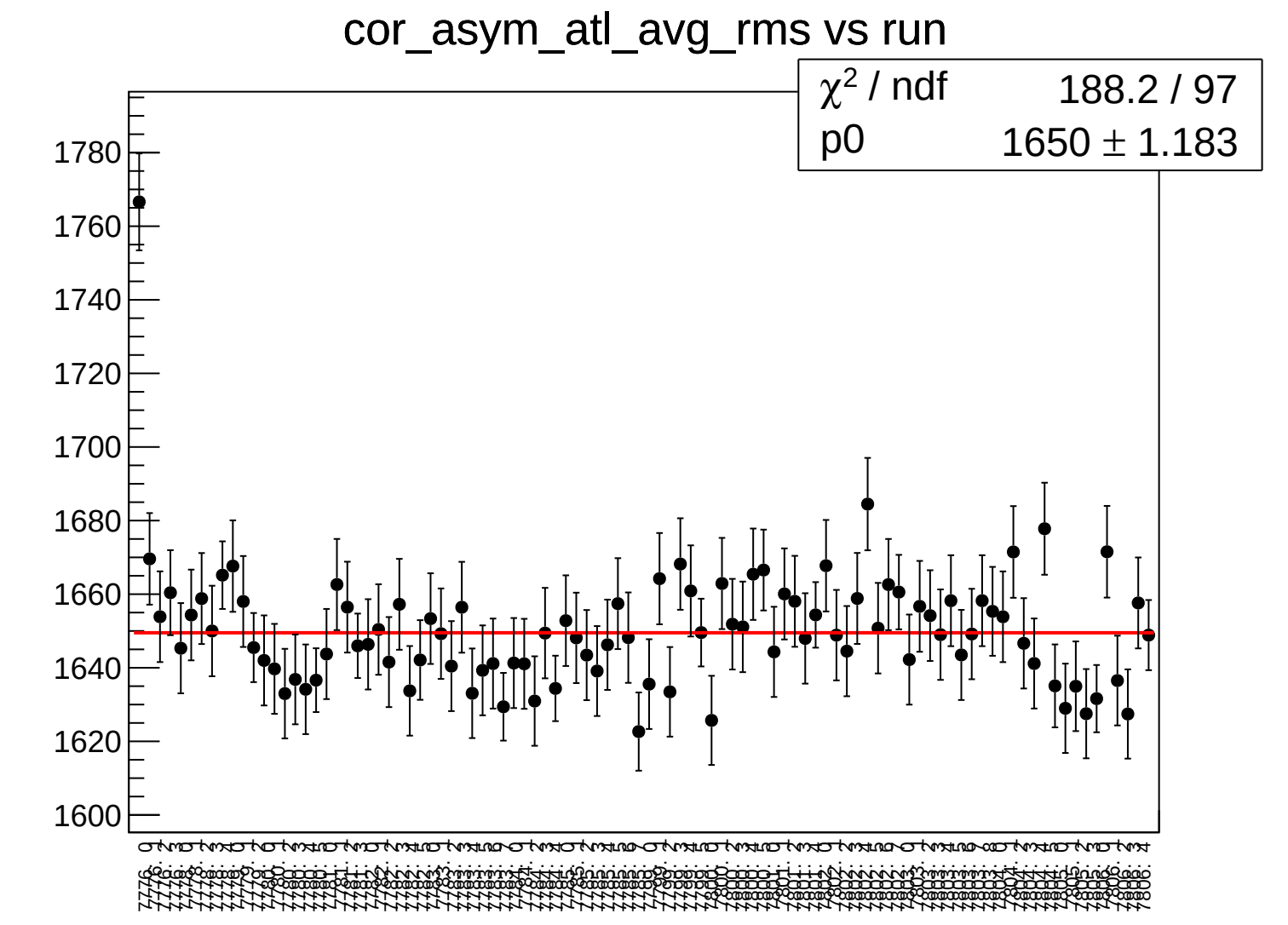

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.18 / 97
p0 4206 ± 4696
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 476.7
Std Dev 0
2
1
0
−1
−2

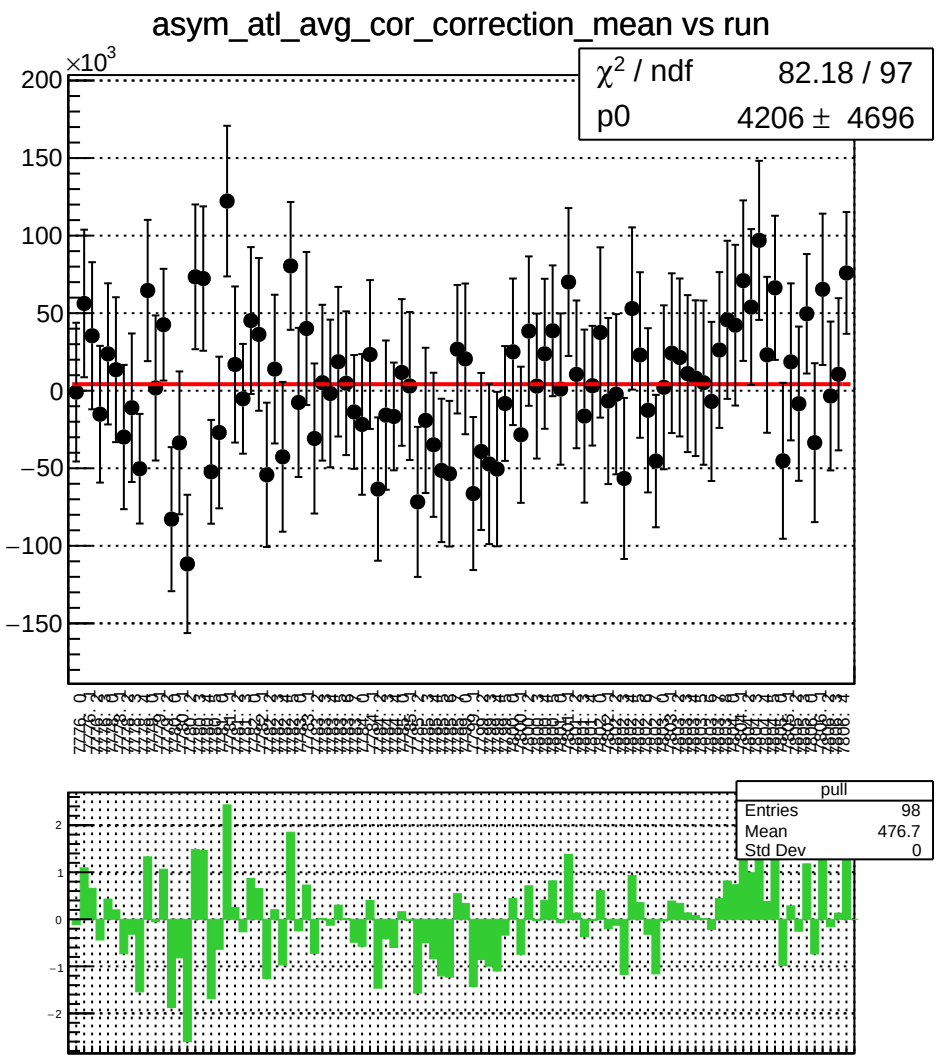

pull1D
Entries 98
Mean 0.01093
Std Dev 0.9157
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

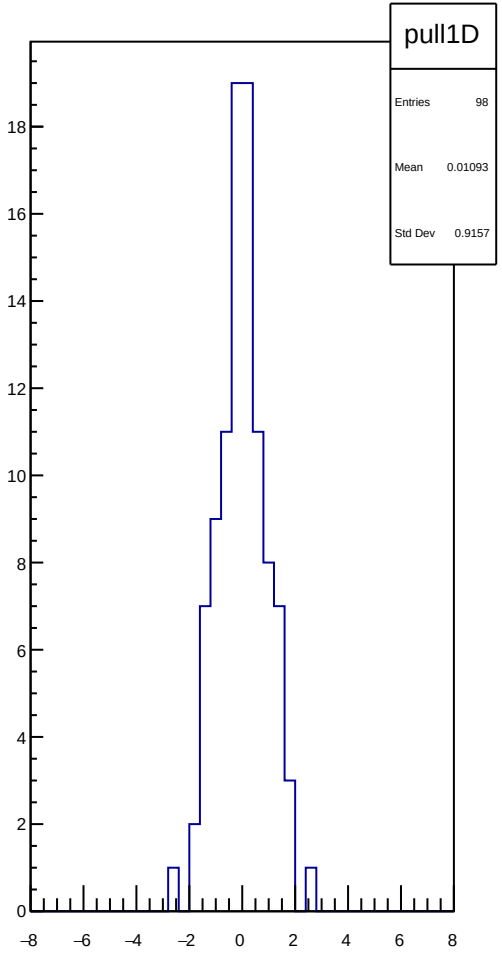

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 4352 / 97
p0 4624 ± 3.321
5400
5200
5000
4800
4600
4400
4200

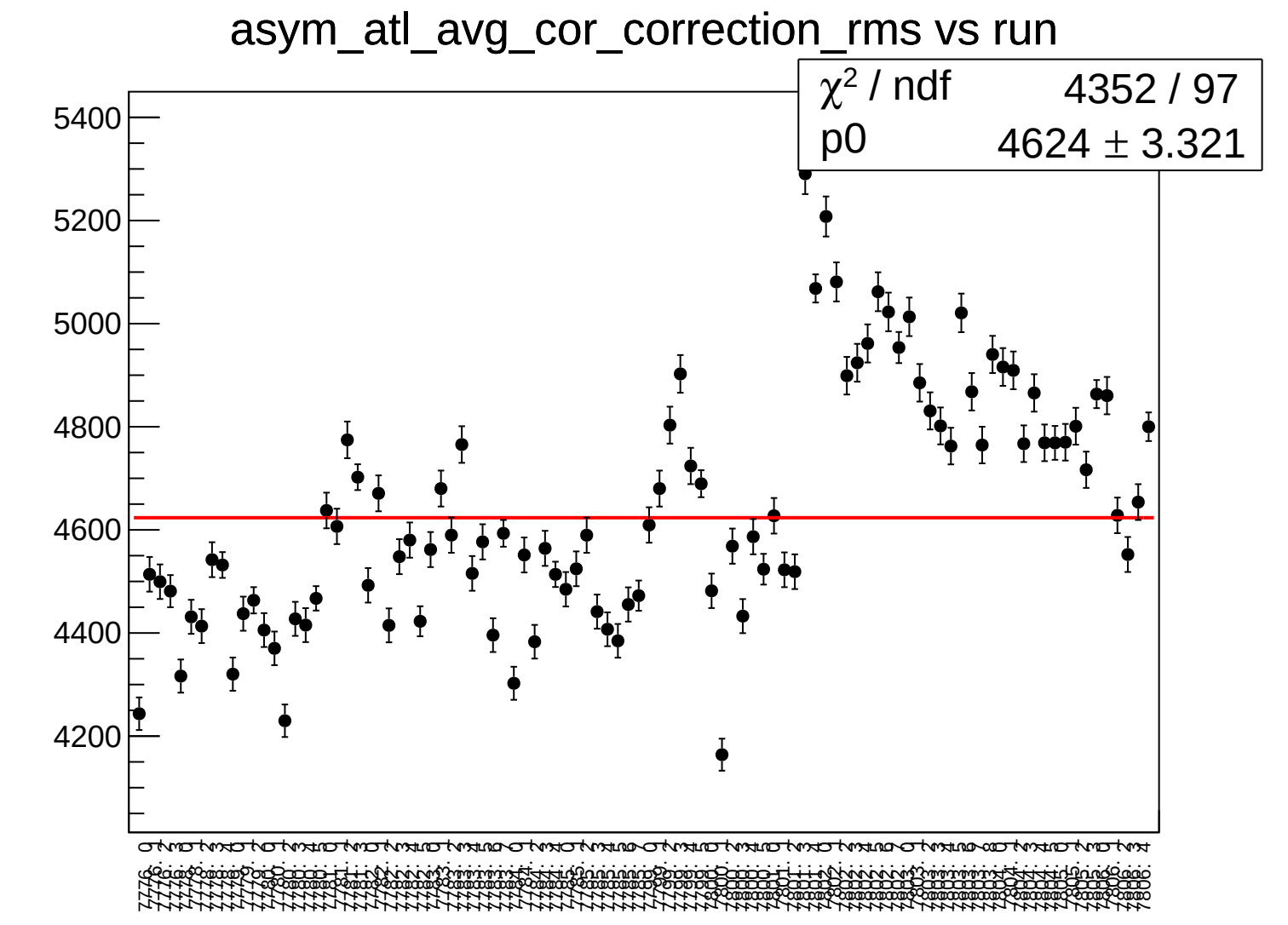

cor_asym_atl_avg_mean vs run
χ² / ndf 98.69 / 97
p0 2835 ± 1674
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 565.2
Std Dev 0
2
1
0
−1
−2

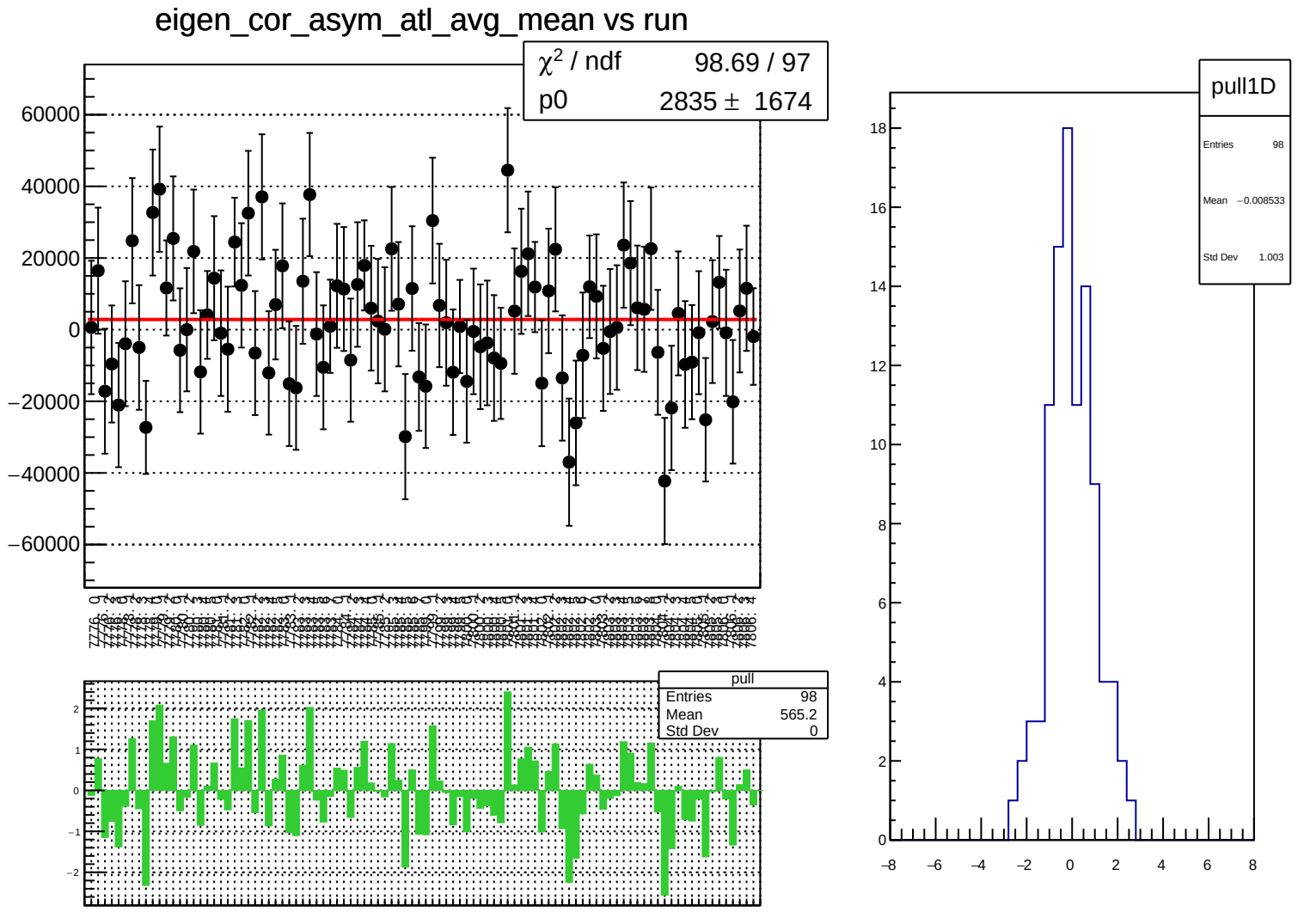

pull1D
Entries 98
Mean −0.008533
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

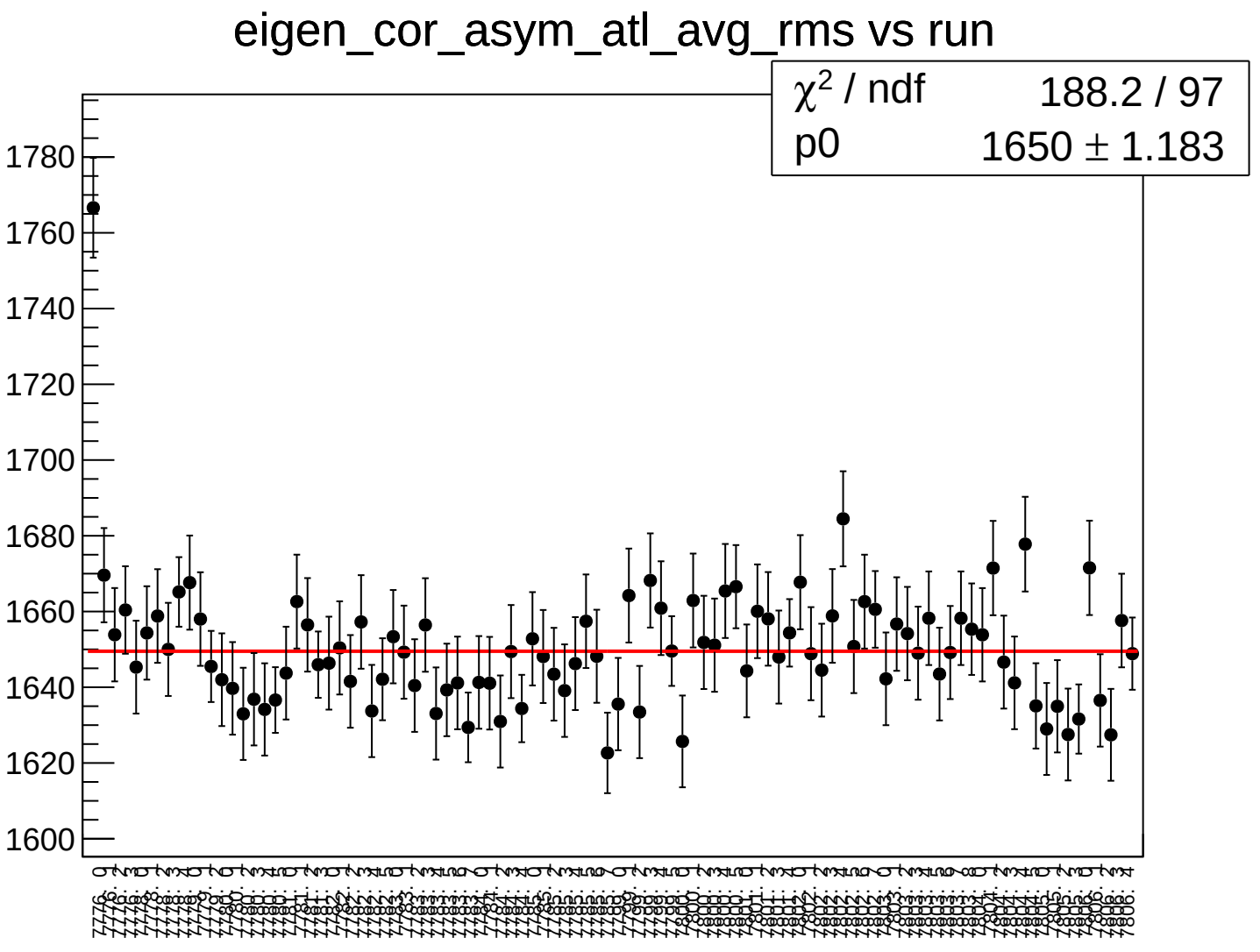

cor_asym_atl_avg_rms vs run
χ^2 / ndf 188.2 / 97
p0 1650 ± 1.183
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600

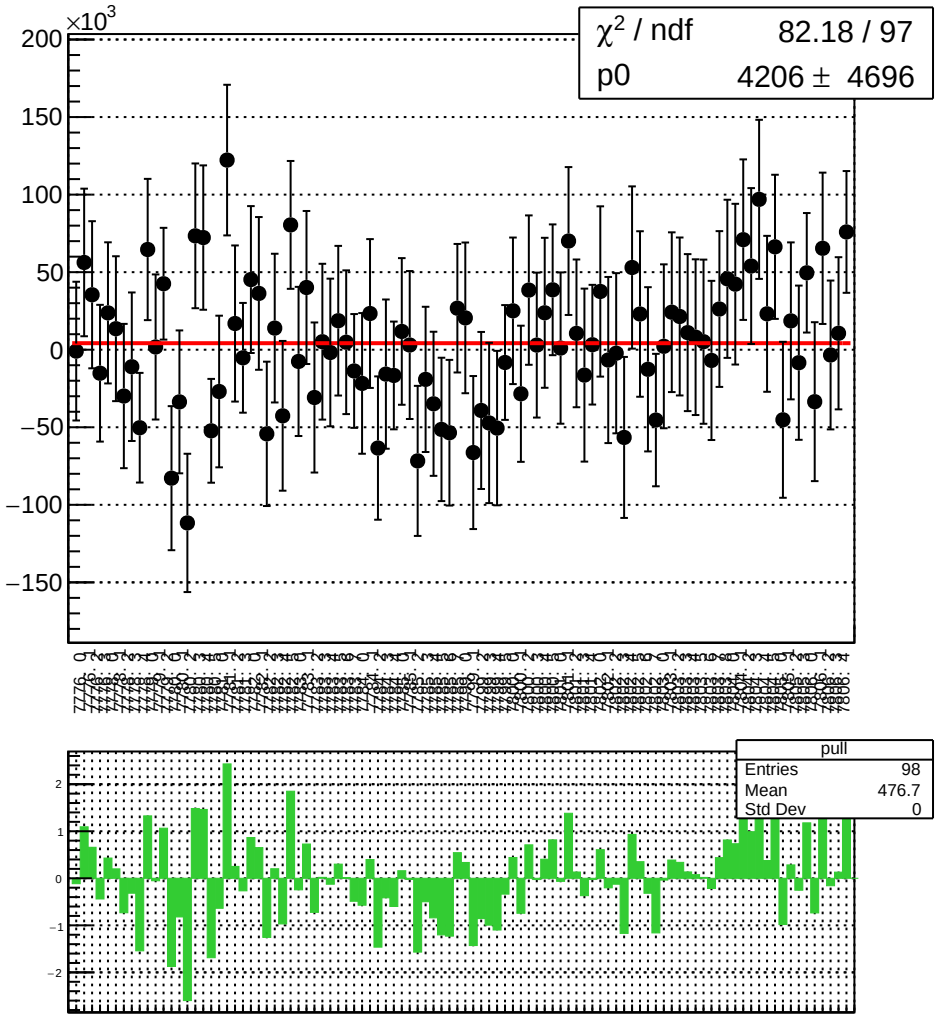

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.18 / 97
p0 4206 ± 4696
pull
Entries 98
Mean 476.7
Std Dev 0

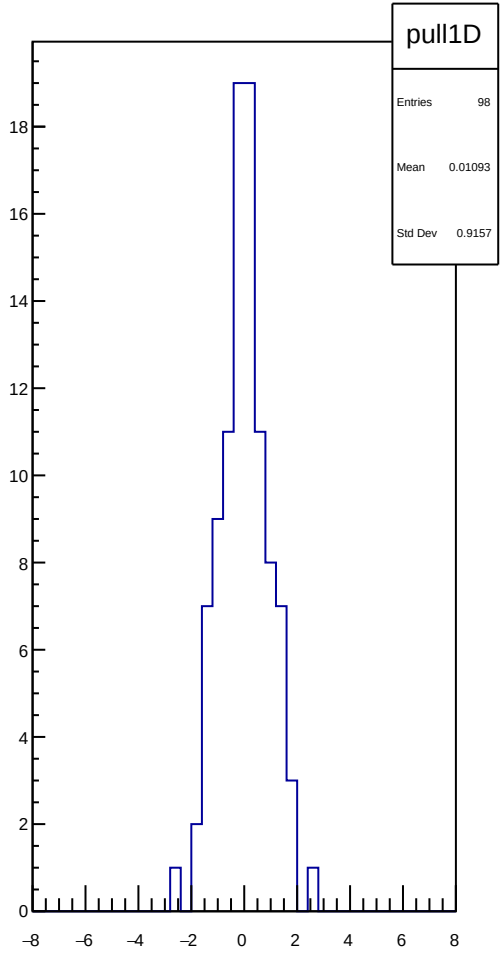

pull1D
Entries 98
Mean 0.01093
Std Dev 0.9157

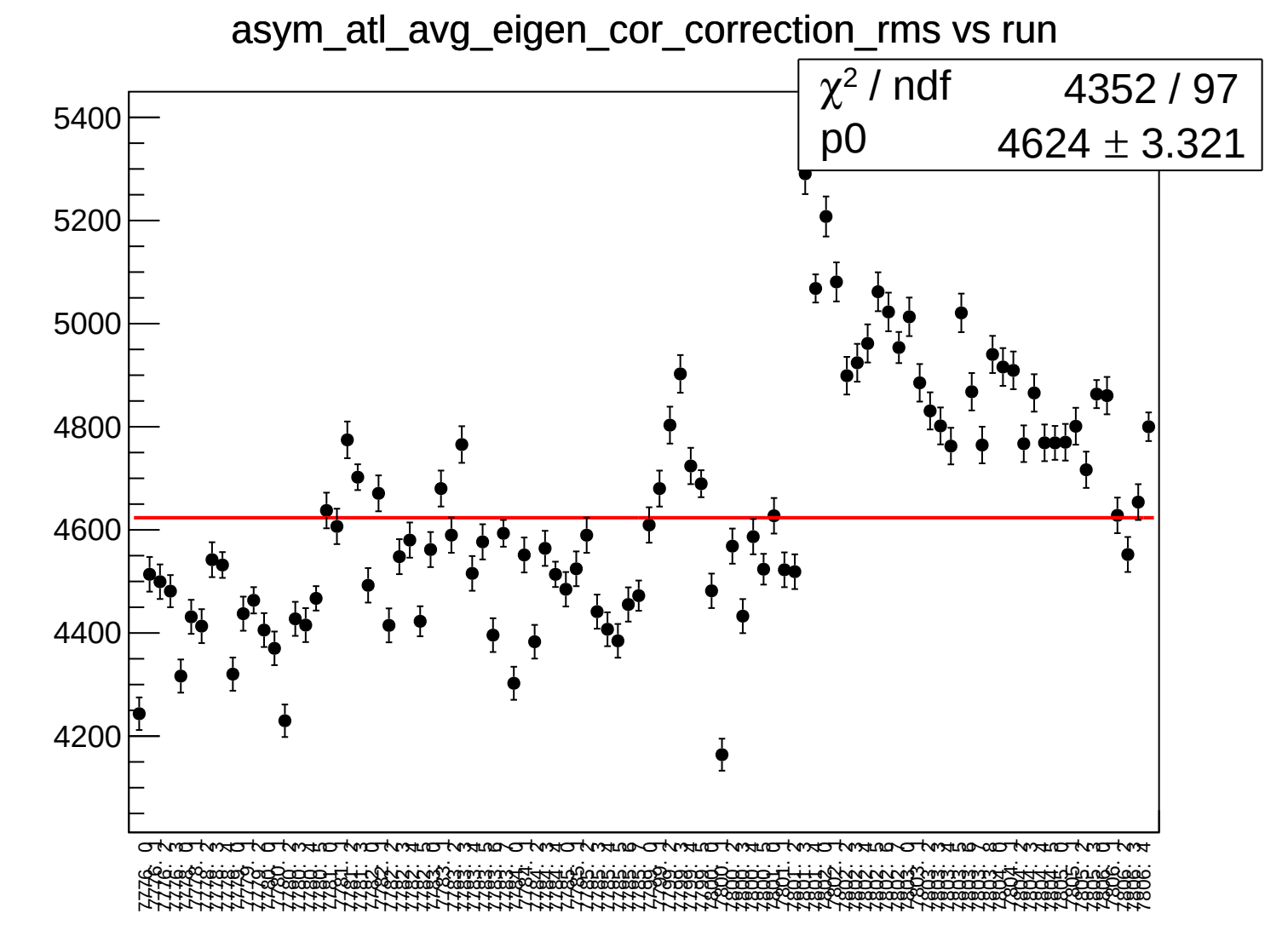

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 4352 / 97
p0 4624 ± 3.321
5400
5200
5000
4800
4600
4400
4200

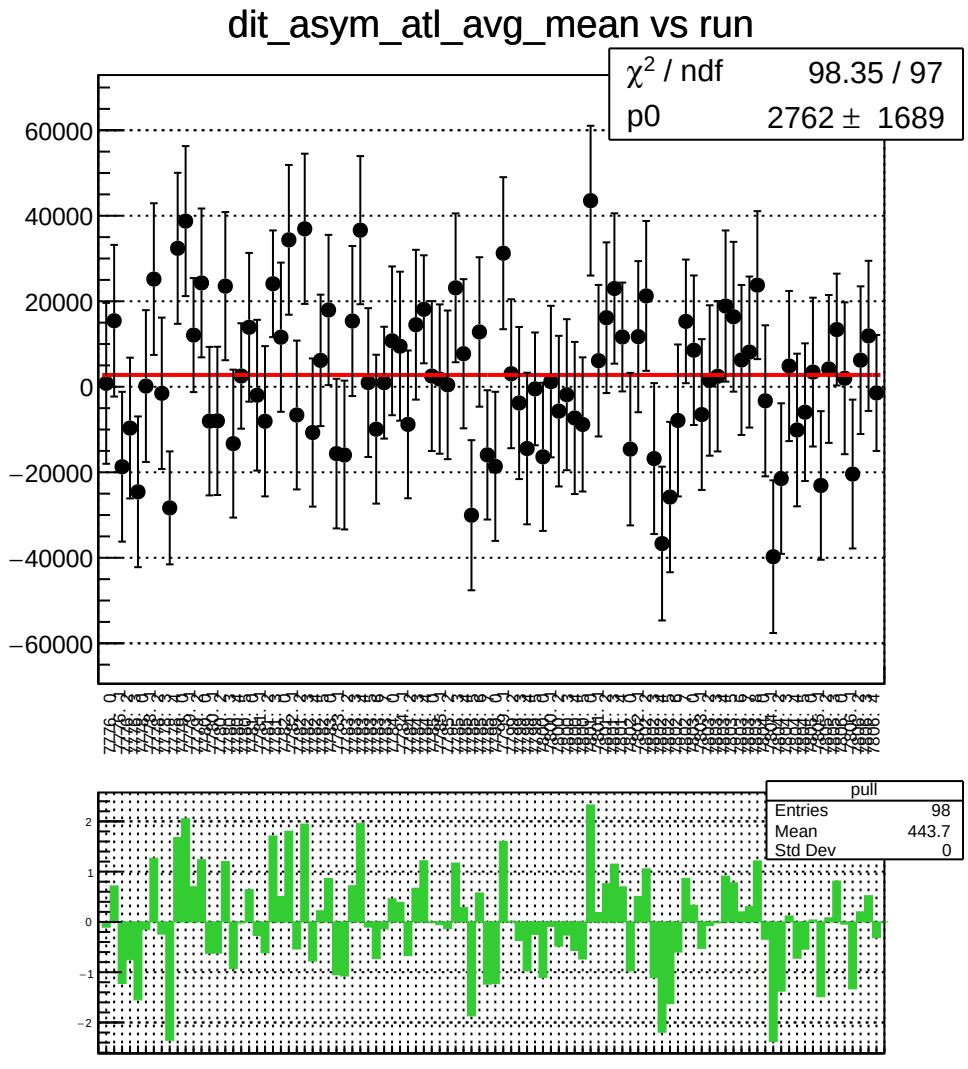

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 98.69 / 97
p0 2835 ± 1674
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 565.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.008533
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

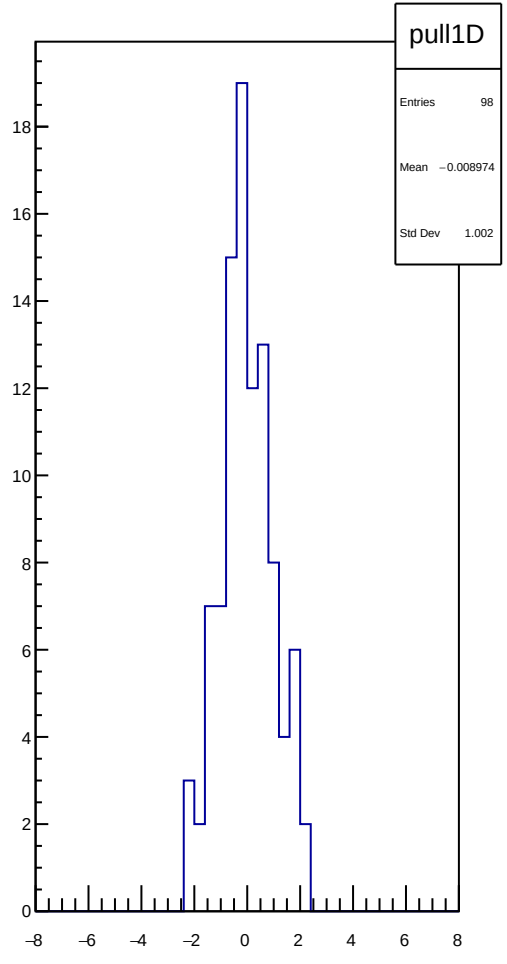

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 188.2 / 97
p0 1650 ± 1.183
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600

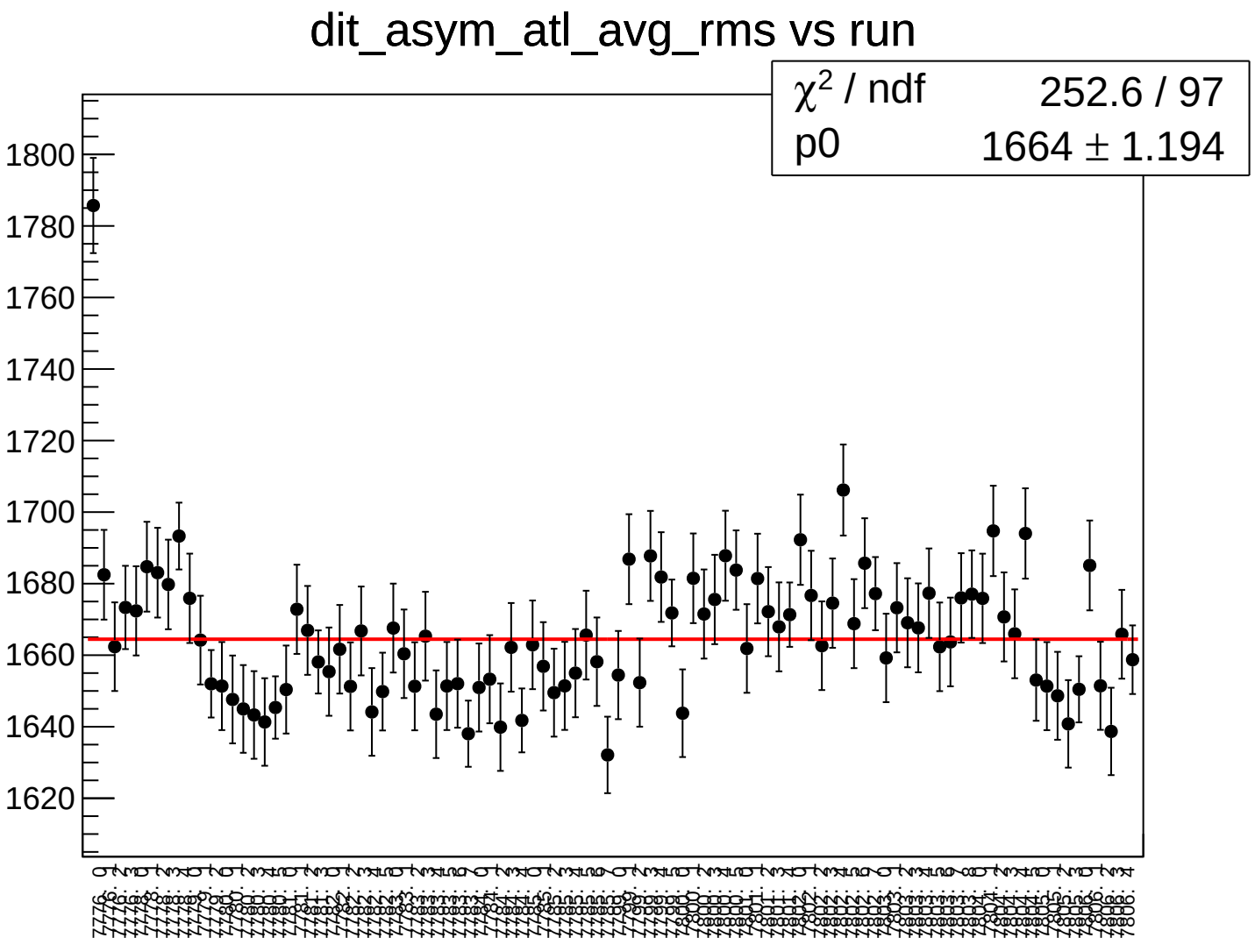

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.18 / 97
p0 4206 ± 4696
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 476.7
Std Dev 0
2
1
0
−1
−2

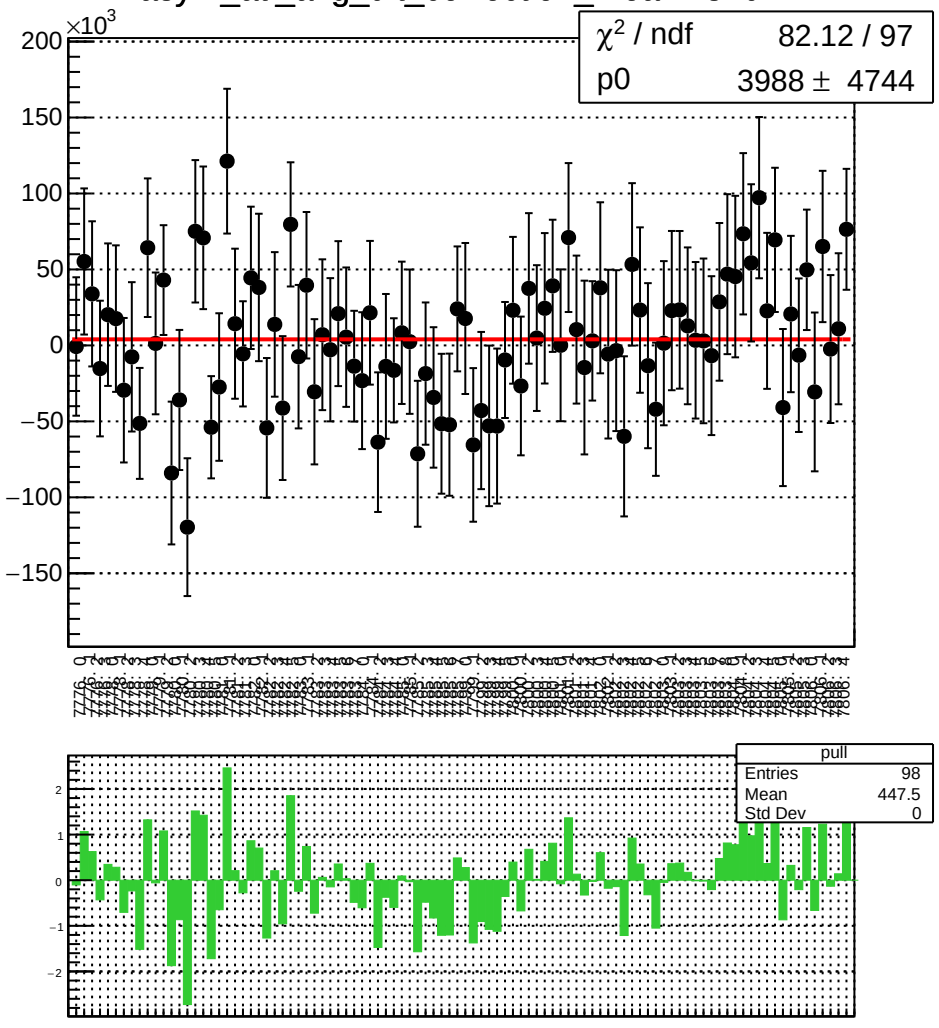

pull1D
Entries 98
Mean 0.01093
Std Dev 0.9157
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

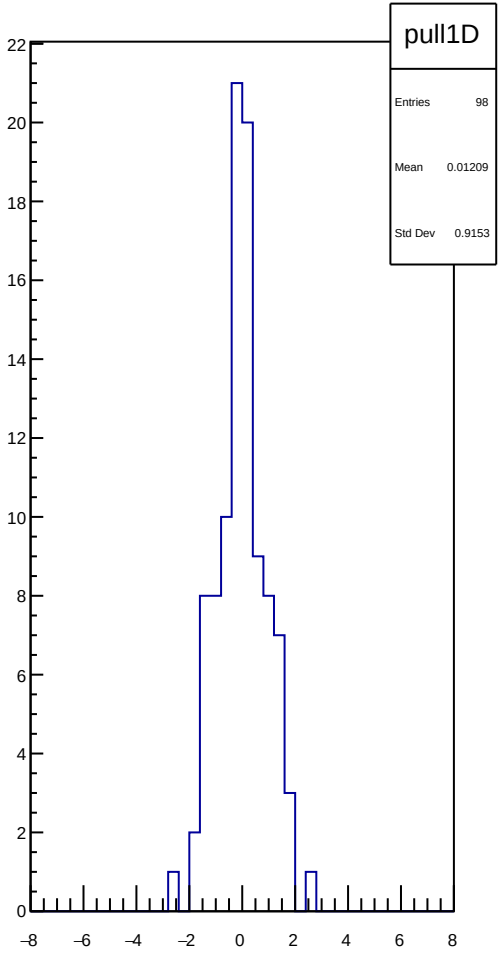

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 4352 / 97
p0 4624 ± 3.321
5400
5200
5000
4800
4600
4400
4200

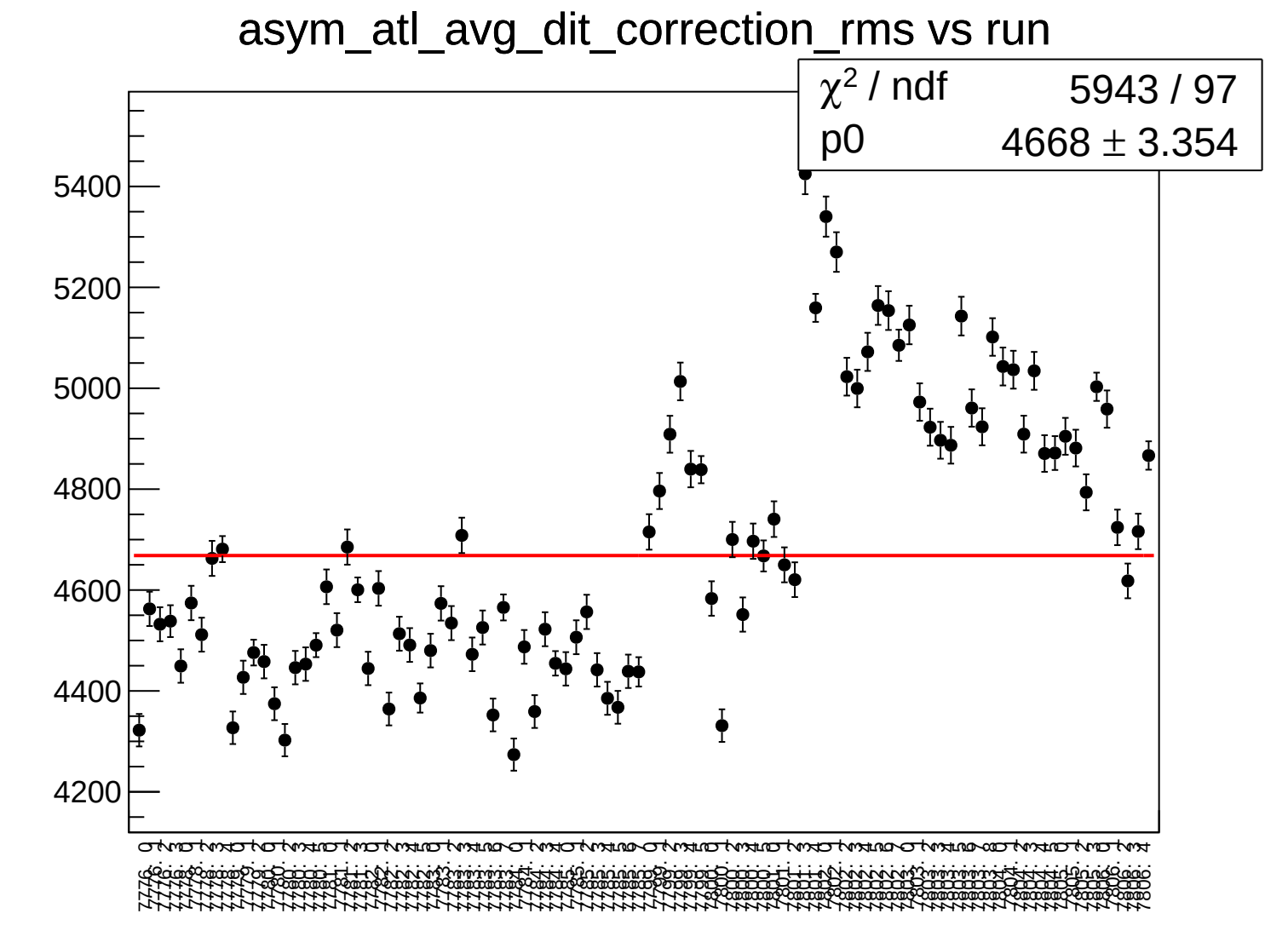

dit_asym_atl_avg_mean vs run
χ² / ndf 98.35 / 97
p0 2762 ± 1689
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 443.7
Std Dev 0
2
1
0
−1
−2

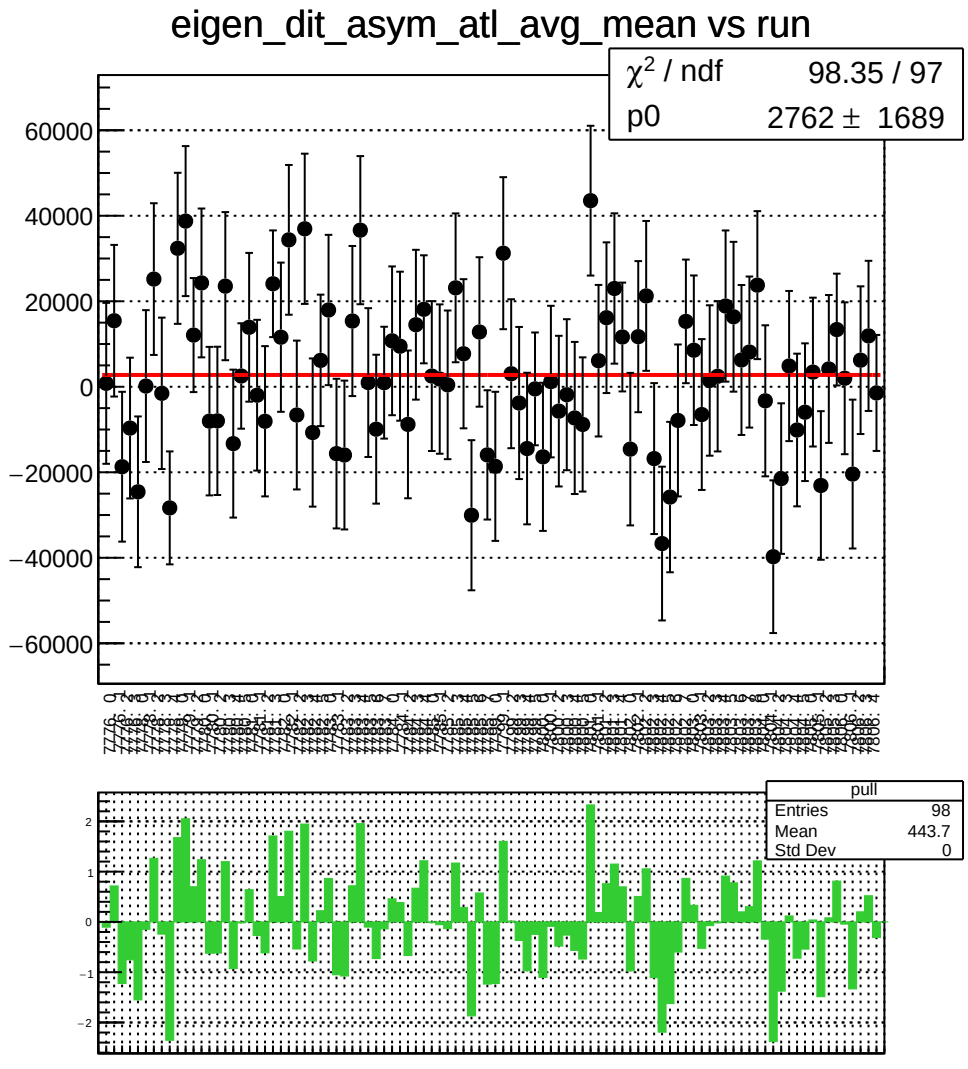

pull1D
Entries 98
Mean −0.008974
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

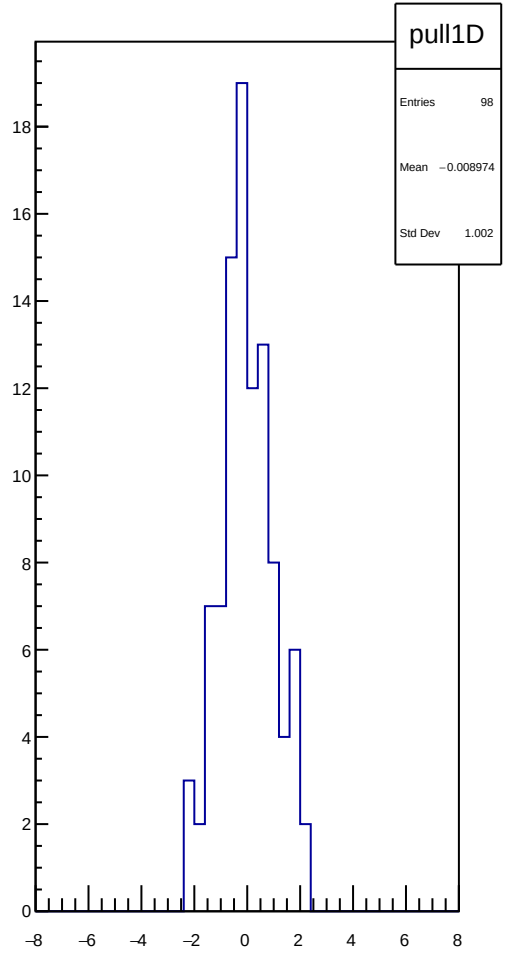

dit_asym_atl_avg_rms vs run
χ² / ndf 252.6 / 97
p0 1664 ± 1.194
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

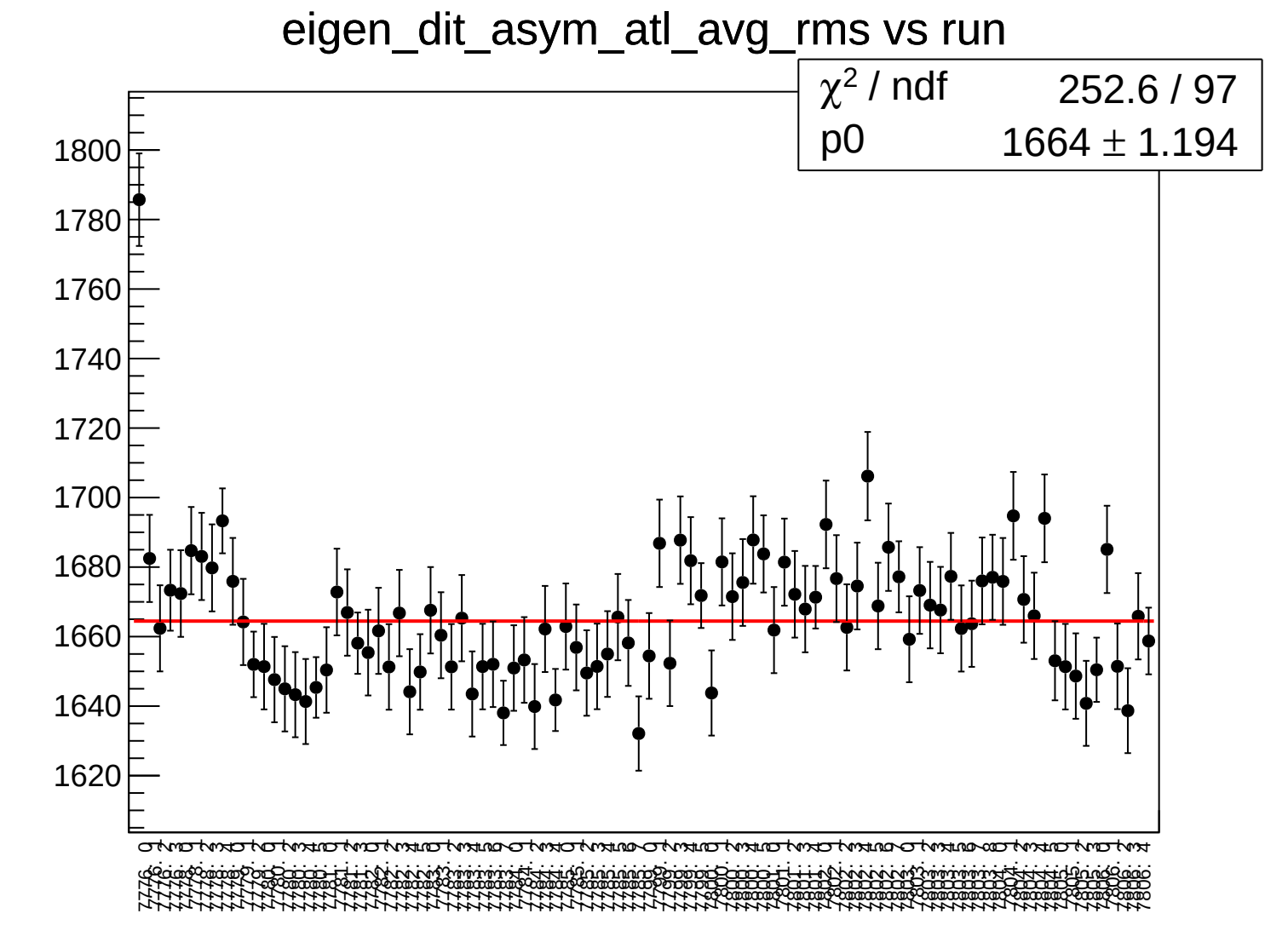

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.12 / 97
p0 3988 ± 4744
pull
Entries 98
Mean 447.5
Std Dev 0

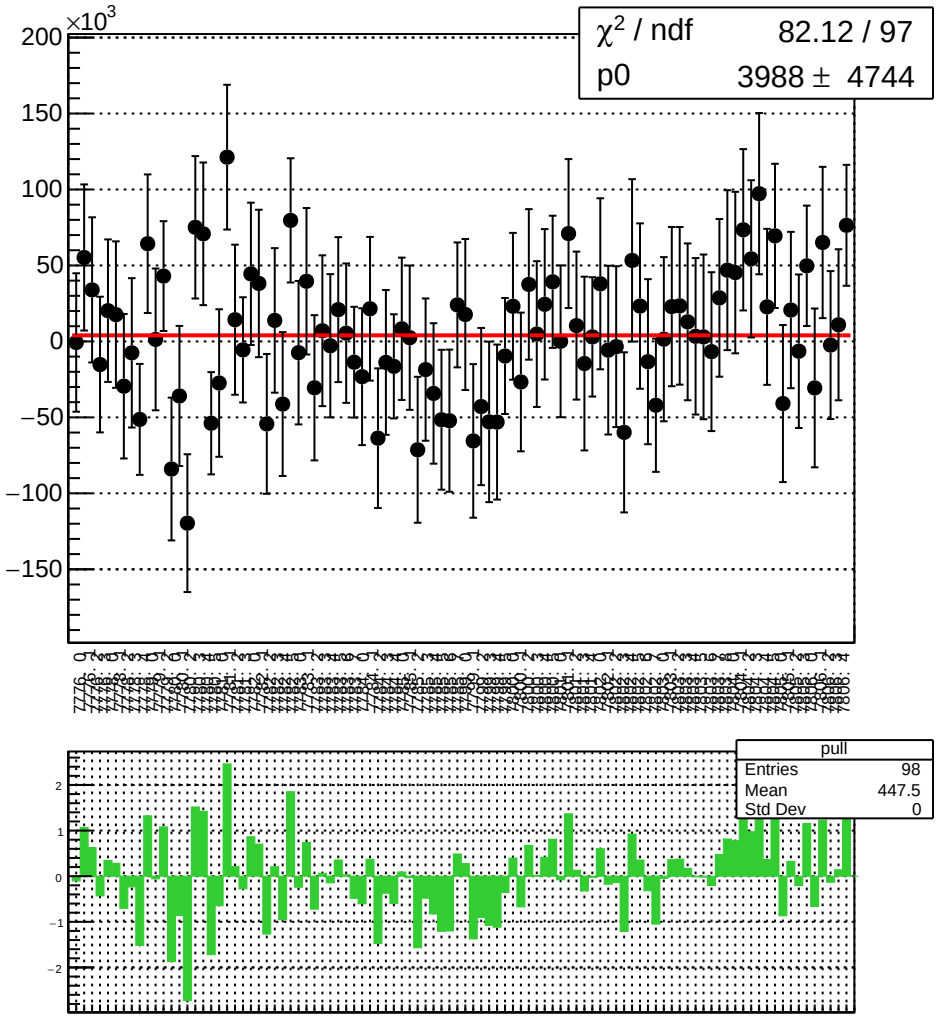

pull1D
Entries 98
Mean 0.01209
Std Dev 0.9153

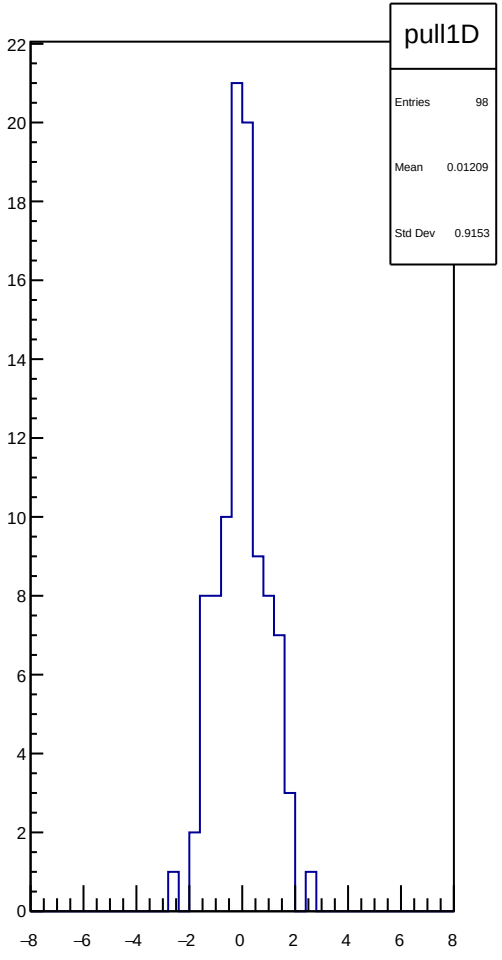

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 5943 / 97
p0 4668 ± 3.354
5400
5200
5000
4800
4600
4400
4200

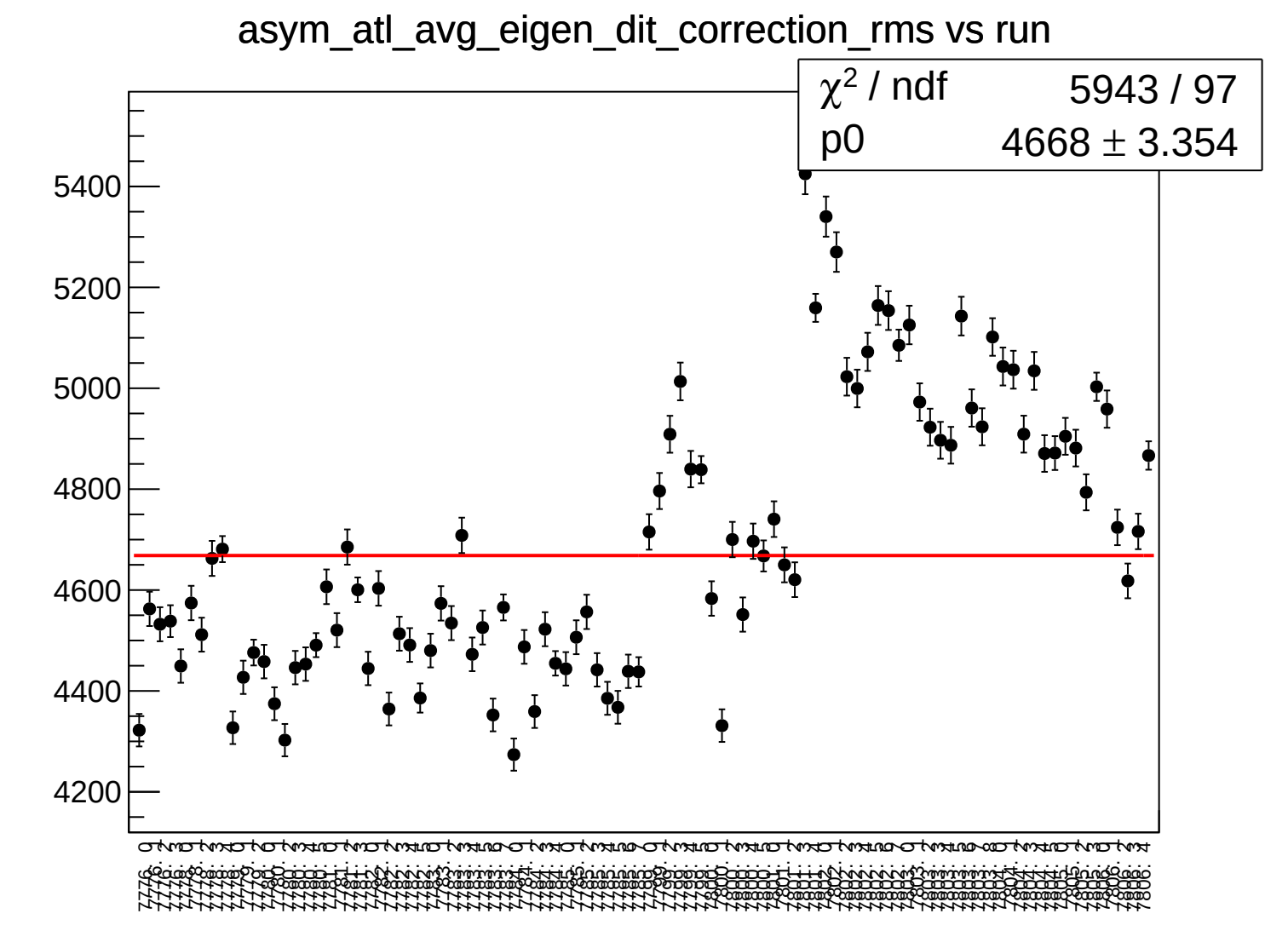

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 98.35 / 97
p0 2762 ± 1689
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 443.7
Std Dev 0
2
1
0
−1
−2

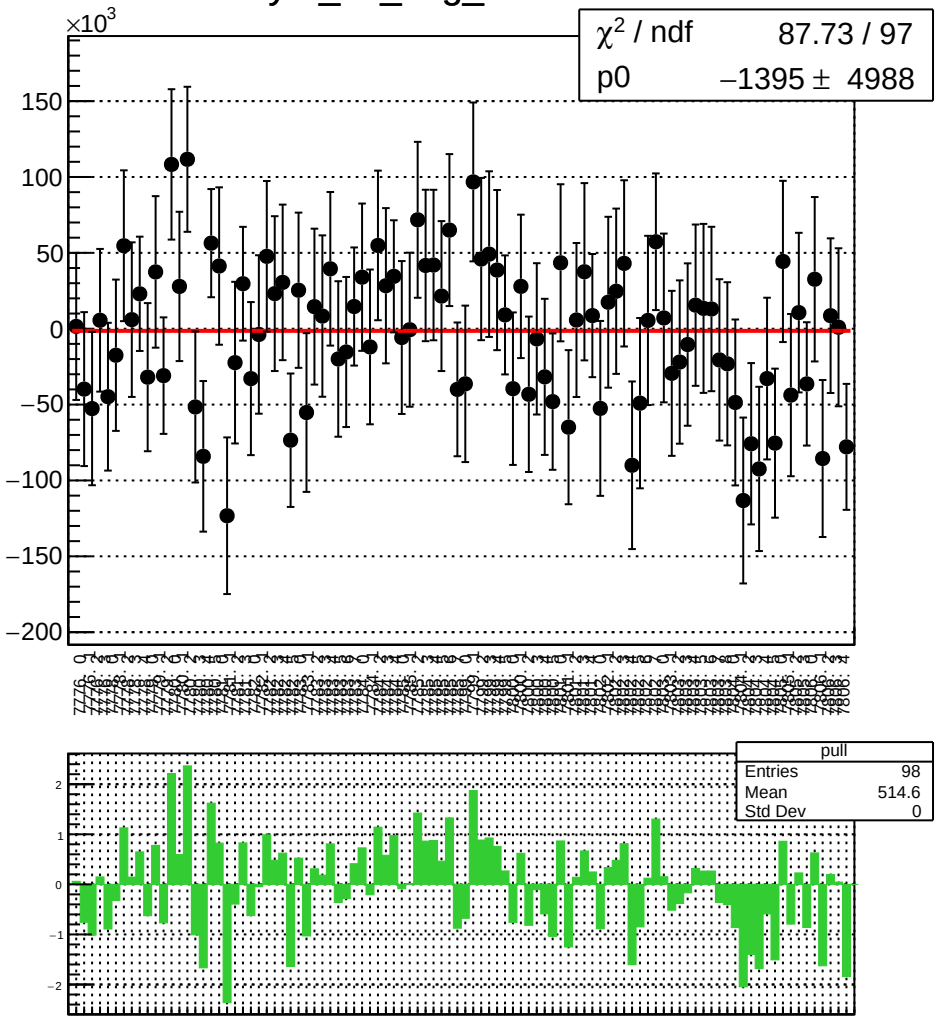

pull1D
Entries 98
Mean −0.008974
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

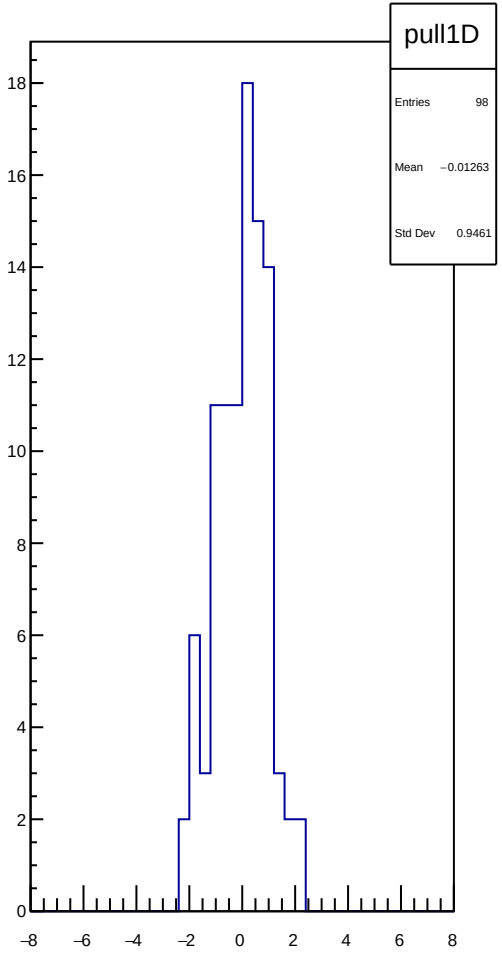

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 252.6 / 97
p0 1664 ± 1.194
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

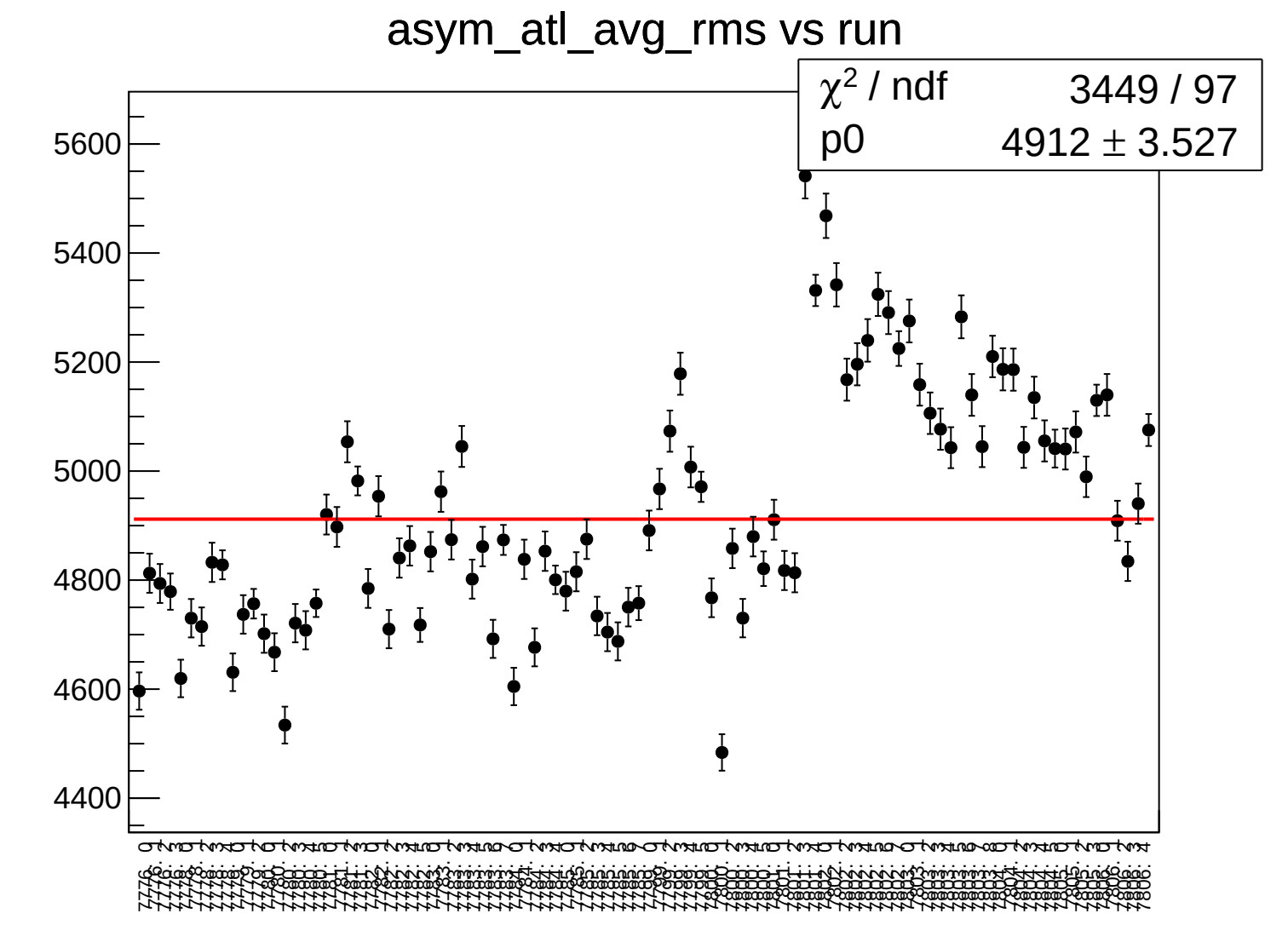

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.12 / 97
p0 3988 ± 4744
pull
Entries 98
Mean 447.5
Std Dev 0

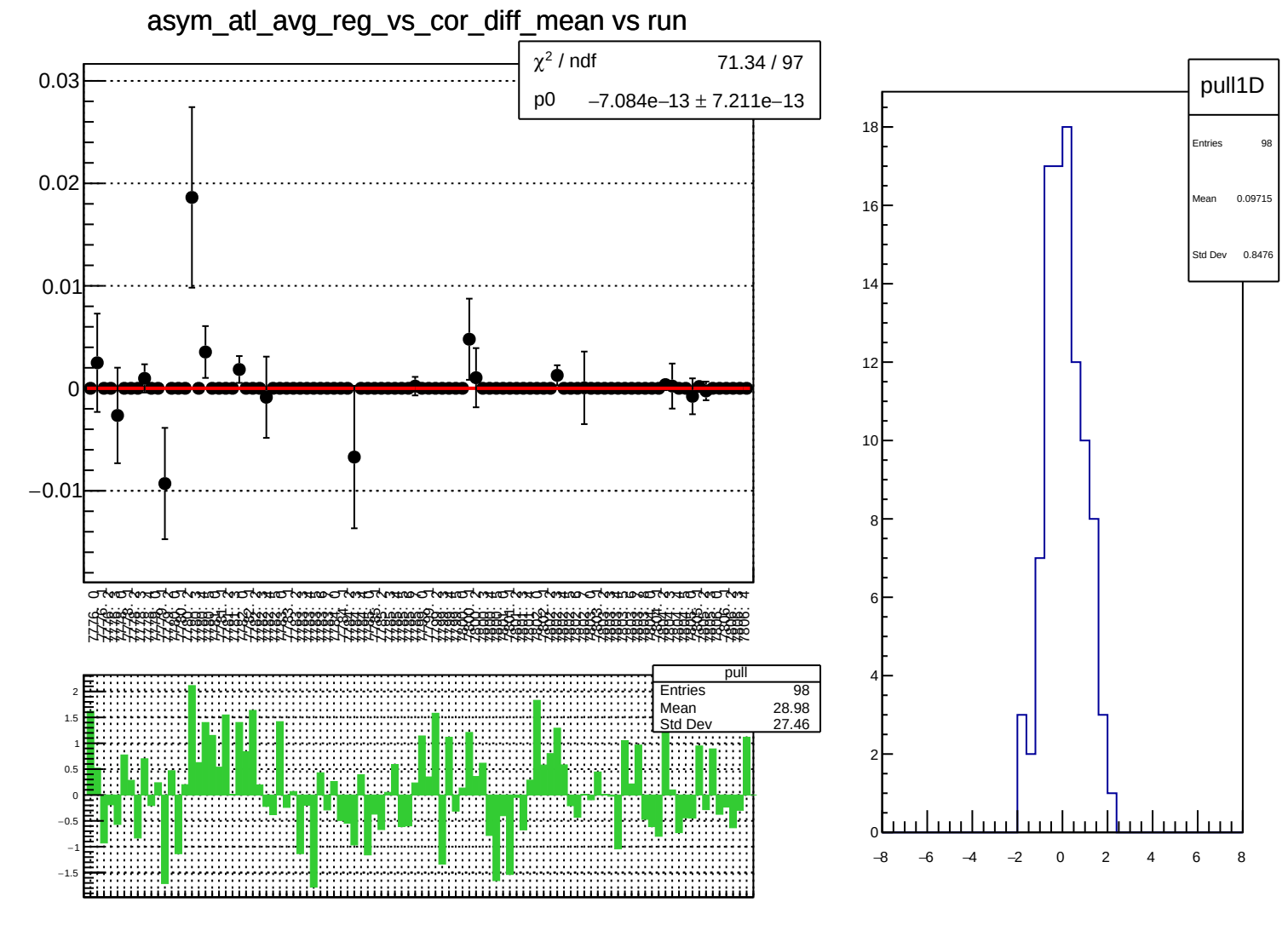

pull1D
Entries 98
Mean 0.01209
Std Dev 0.9153

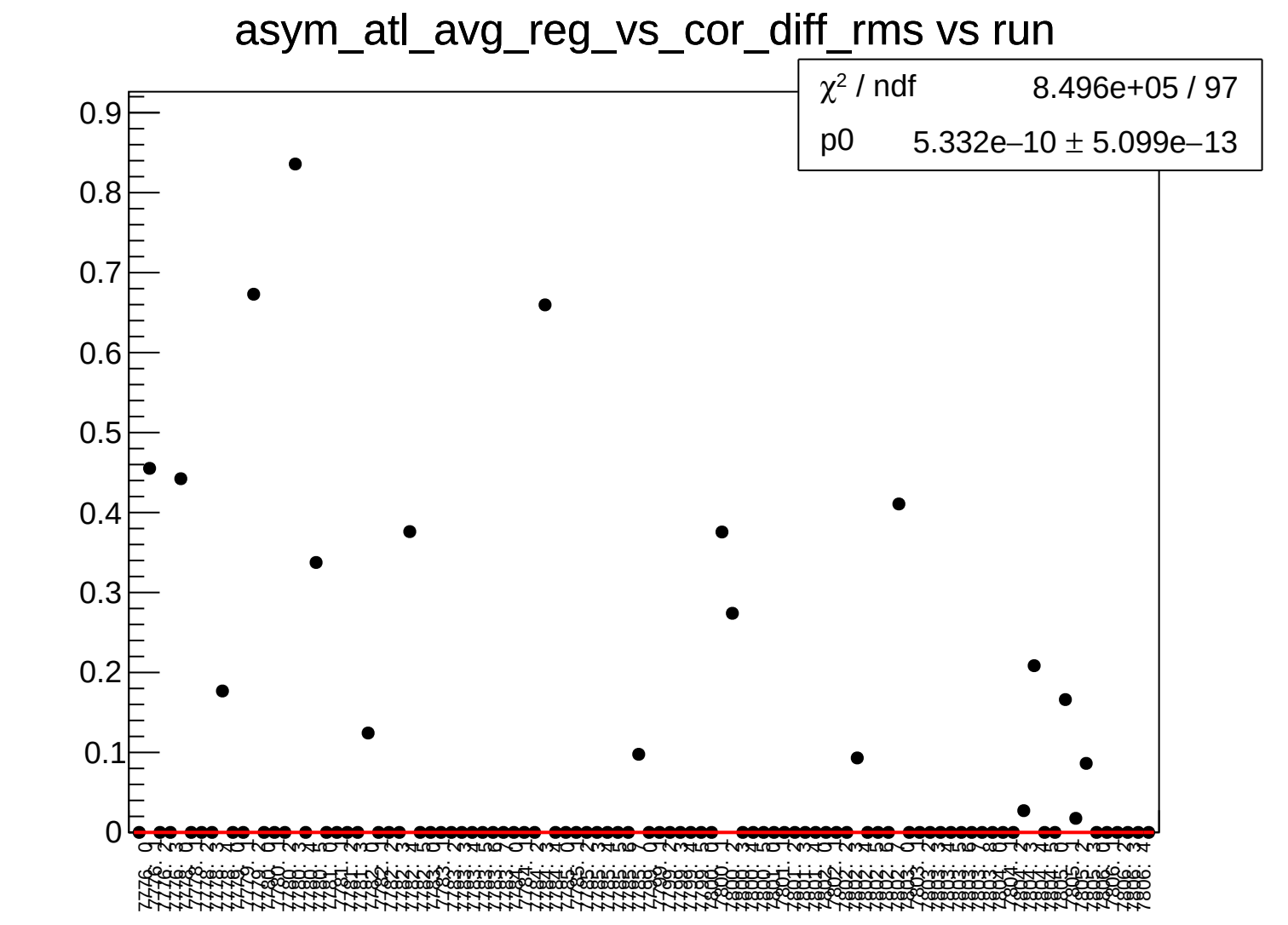

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 5943 / 97
p0 4668 ± 3.354
5400
5200
5000
4800
4600
4400
4200

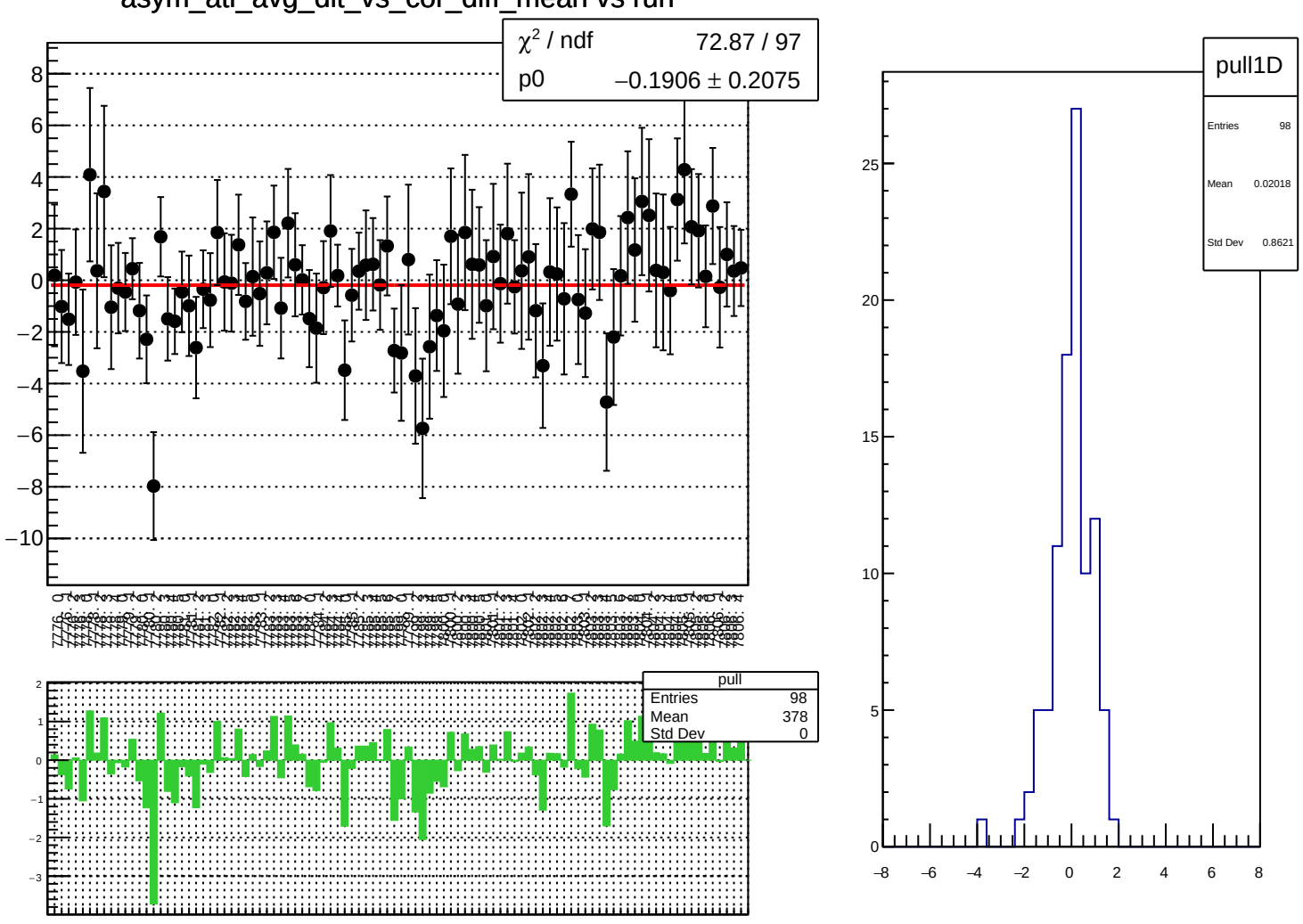

asym_atl_avg_mean vs run
×10^3
χ² / ndf 87.73 / 97
p0 −1395 ± 4988
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 514.6
Std Dev 0
2
1
0
−1
−2

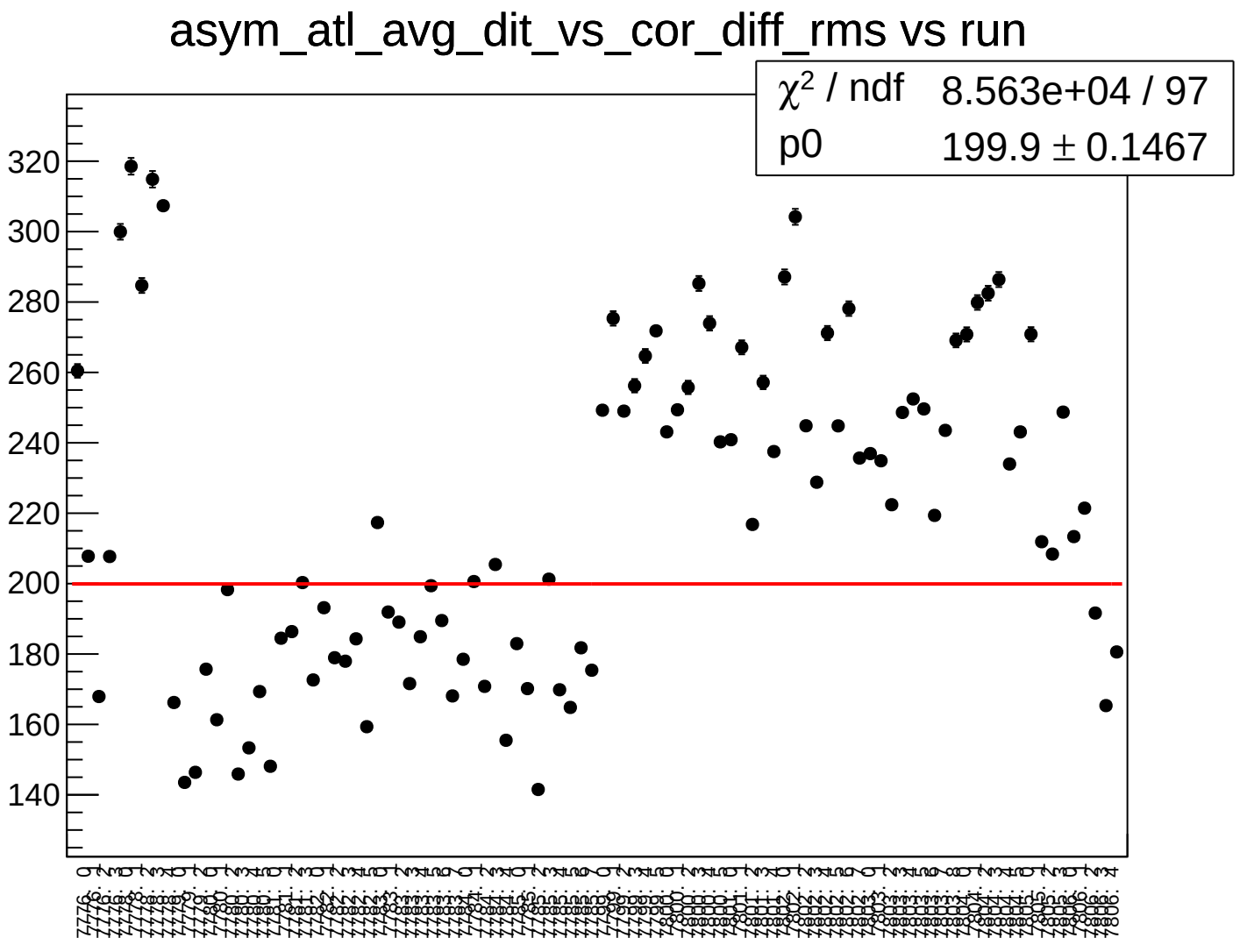

pull1D
Entries 98
Mean −0.01263
Std Dev 0.9461
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

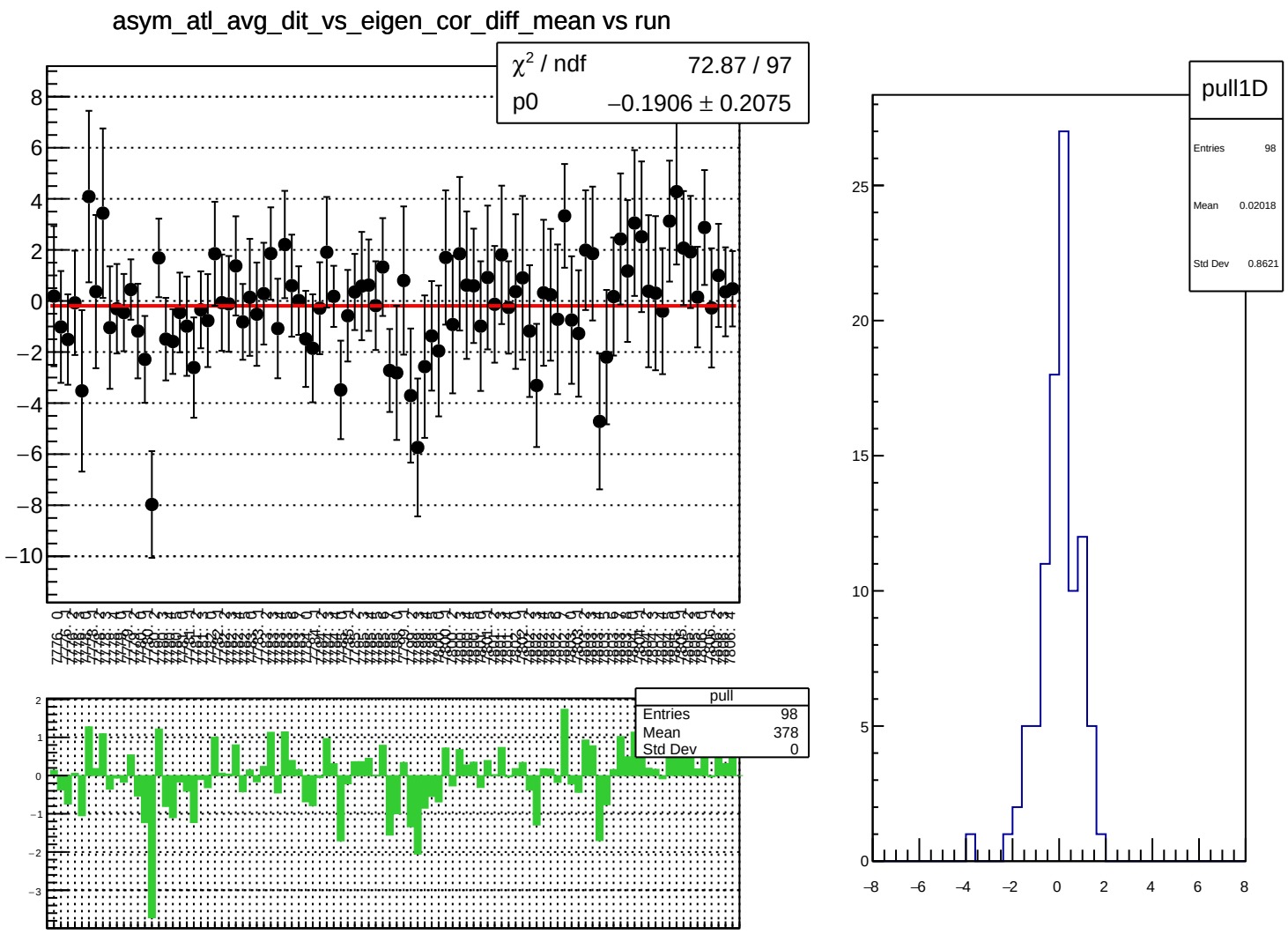

asym_atl_avg_rms vs run
χ² / ndf 3449 / 97
p0 4912 ± 3.527
5600
5400
5200
5000
4800
4600
4400

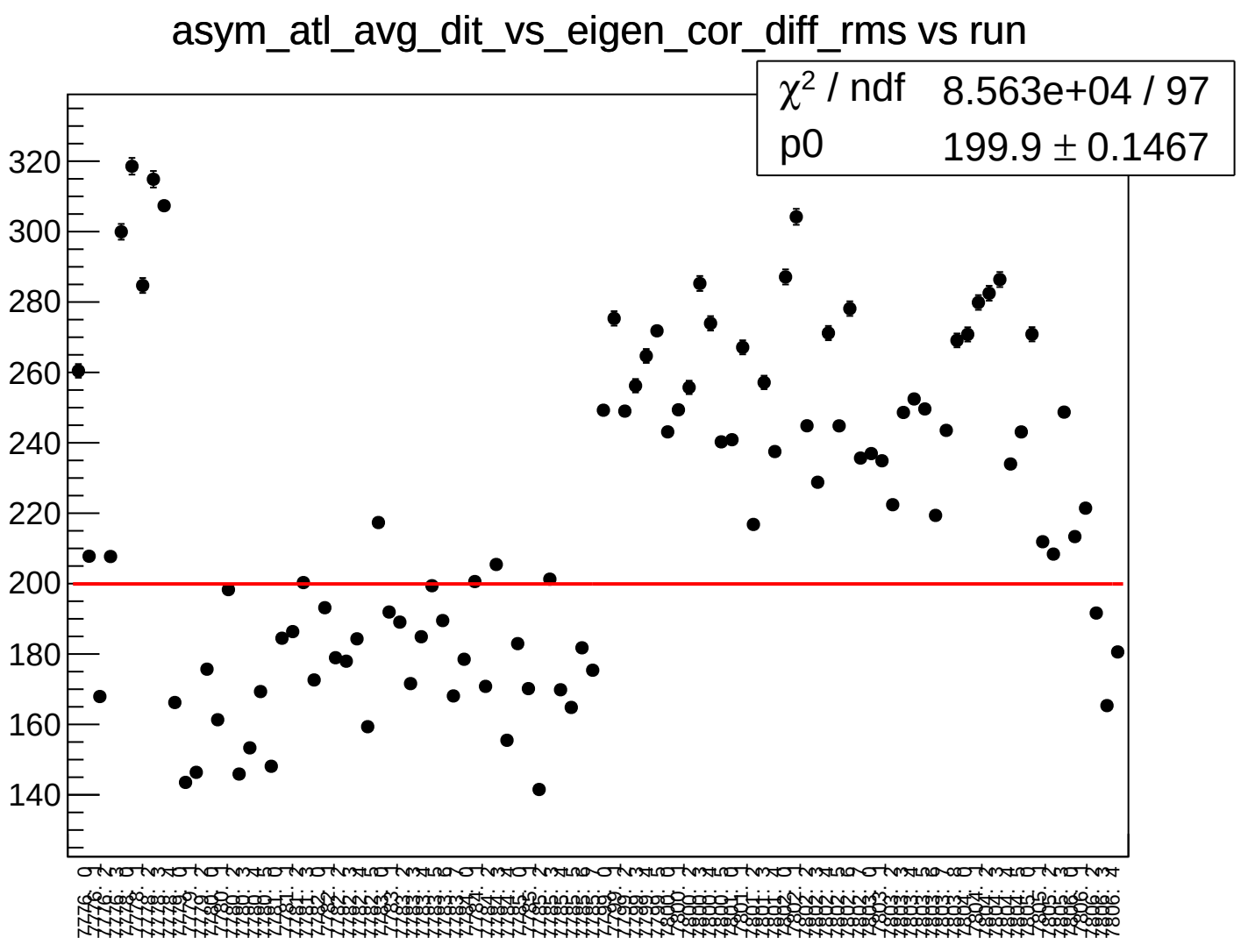

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.34 / 97
p0 −7.084e−13 ± 7.211e−13
pull
Entries 98
Mean 28.98
Std Dev 27.46
pull1D
Entries 98
Mean 0.09715
Std Dev 0.8476

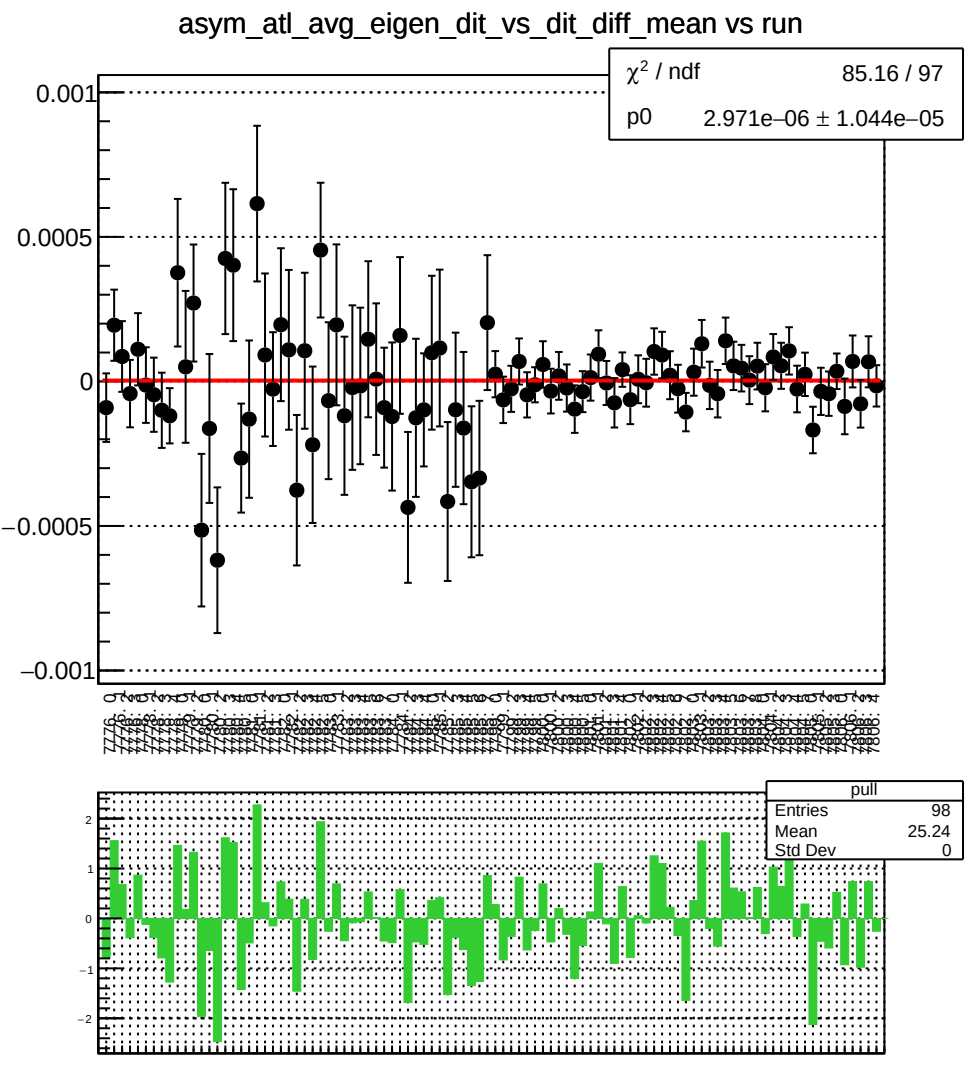

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.496e+05 / 97
p0 5.332e−10 ± 5.099e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

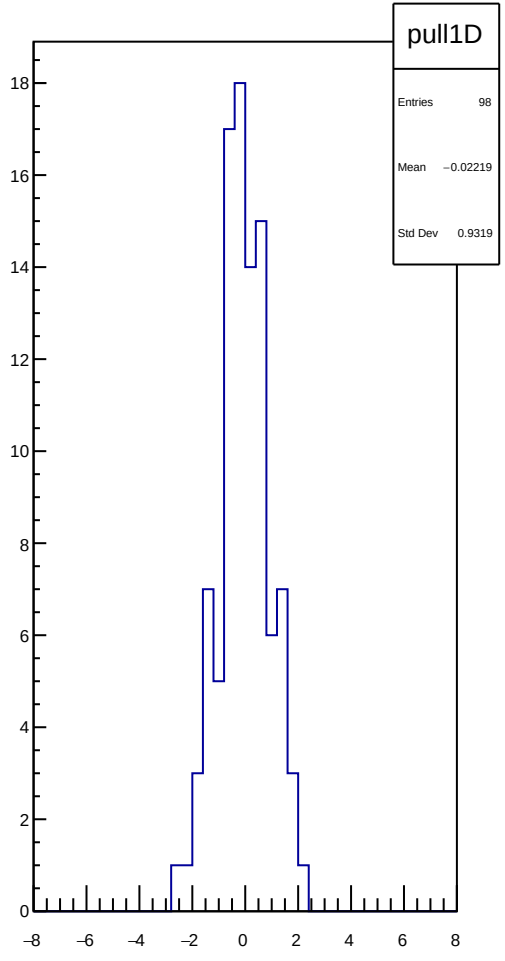

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.87 / 97
p0 −0.1906 ± 0.2075
pull
Entries 98
Mean 378
Std Dev 0
pull1D
Entries 98
Mean 0.02018
Std Dev 0.8621

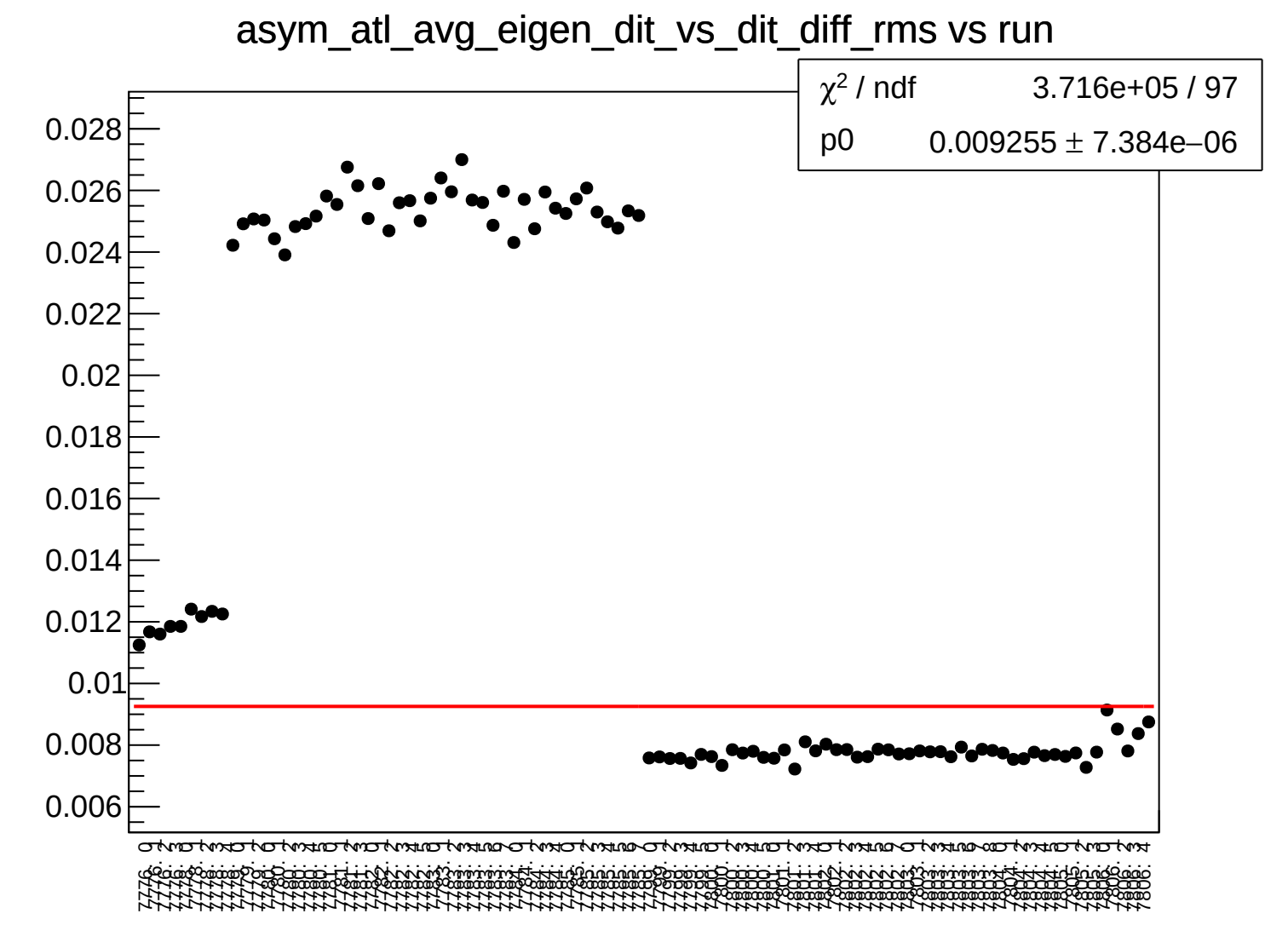

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.563e+04 / 97
p0 199.9 ± 0.1467
320
300
280
260
240
220
200
180
160
140

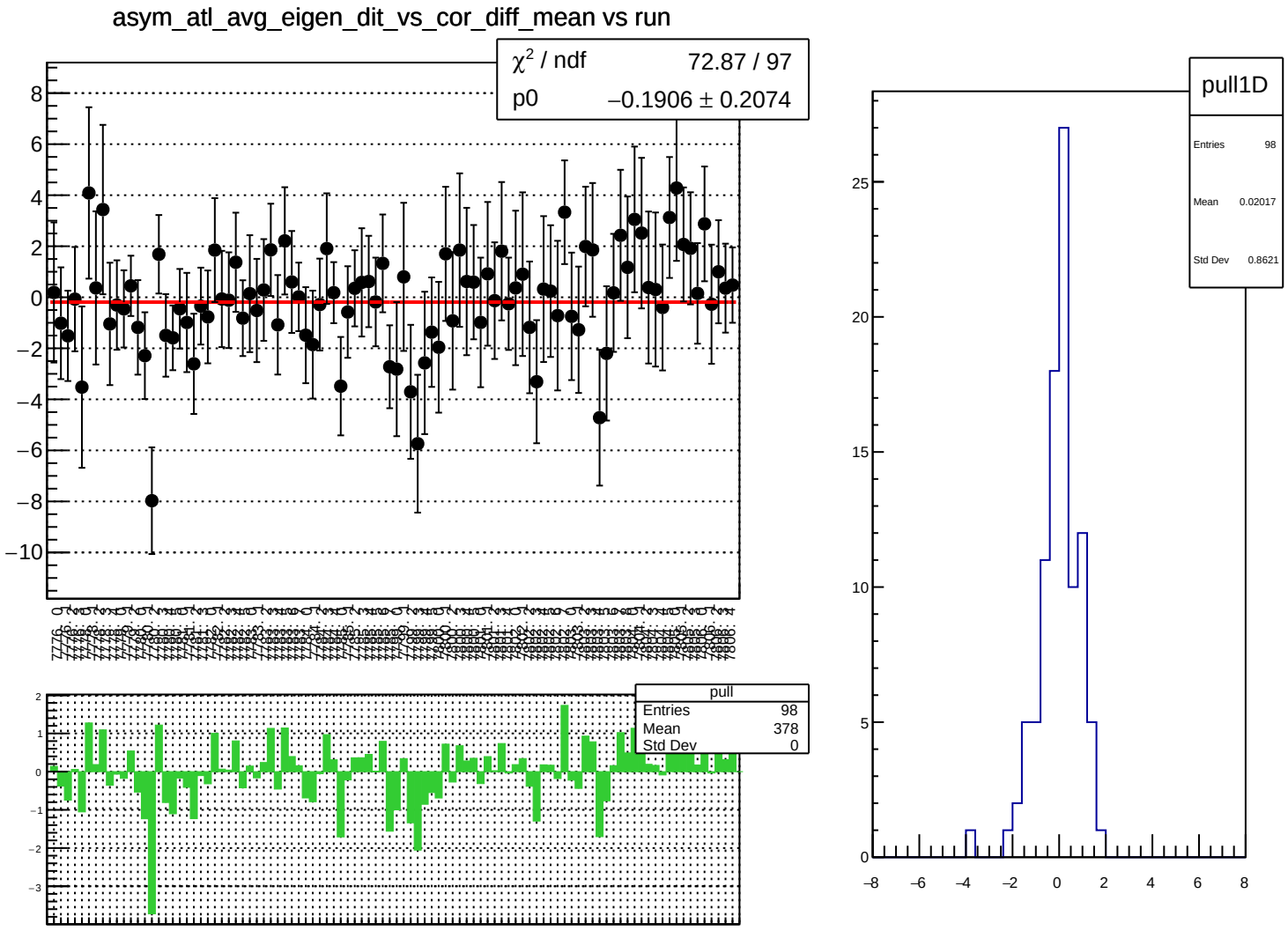

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.87 / 97
p0 −0.1906 ± 0.2075
pull
Entries 98
Mean 378
Std Dev 0
pull1D
Entries 98
Mean 0.02018
Std Dev 0.8621

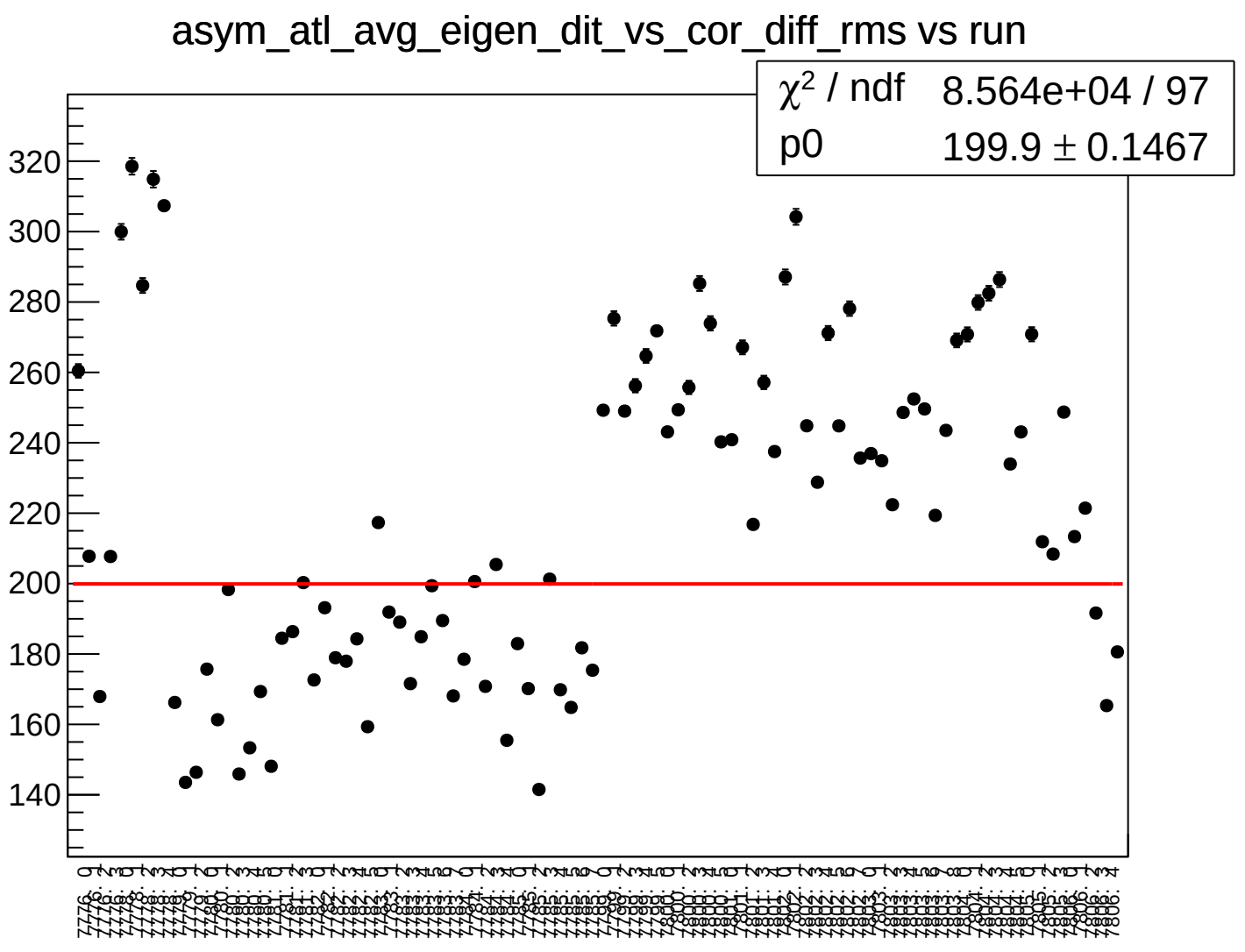

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.563e+04 / 97
p0 199.9 ± 0.1467
320
300
280
260
240
220
200
180
160
140

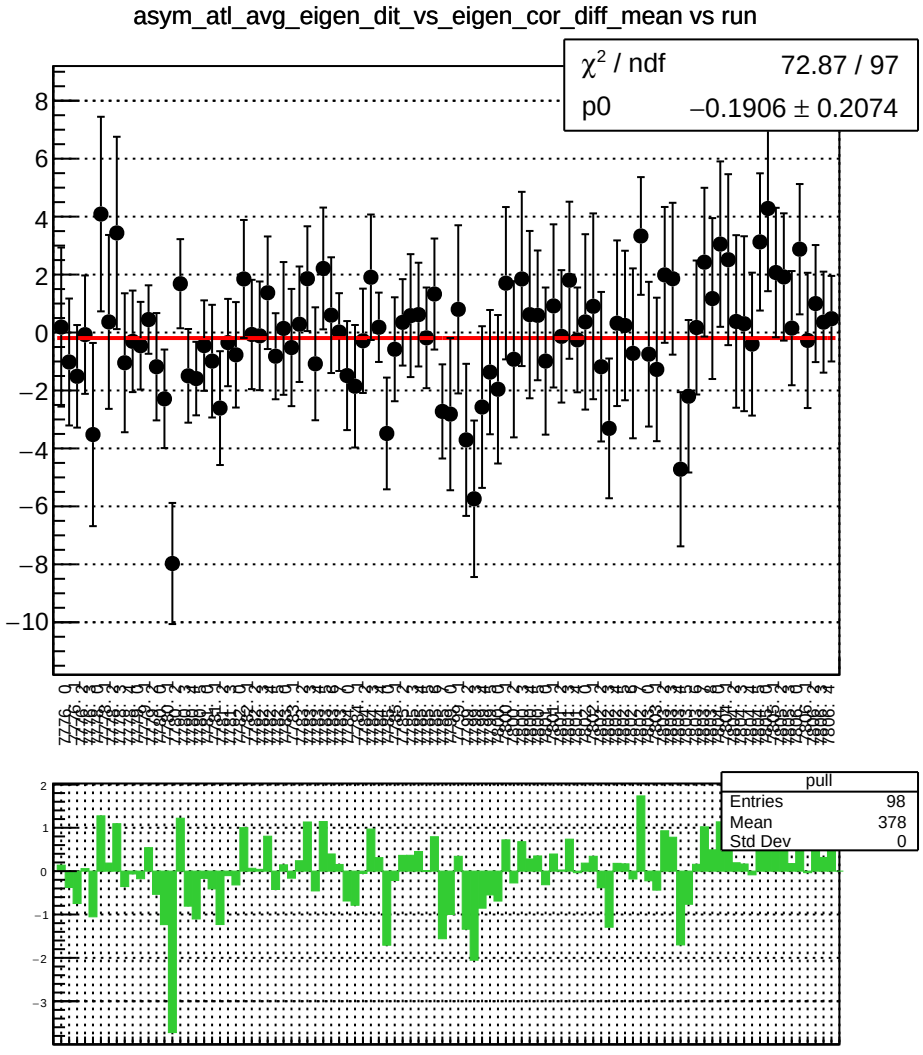

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.16 / 97
p0 2.971e−06 ± 1.044e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 98
Mean 25.24
Std Dev 0
2
1
0
−1
−2

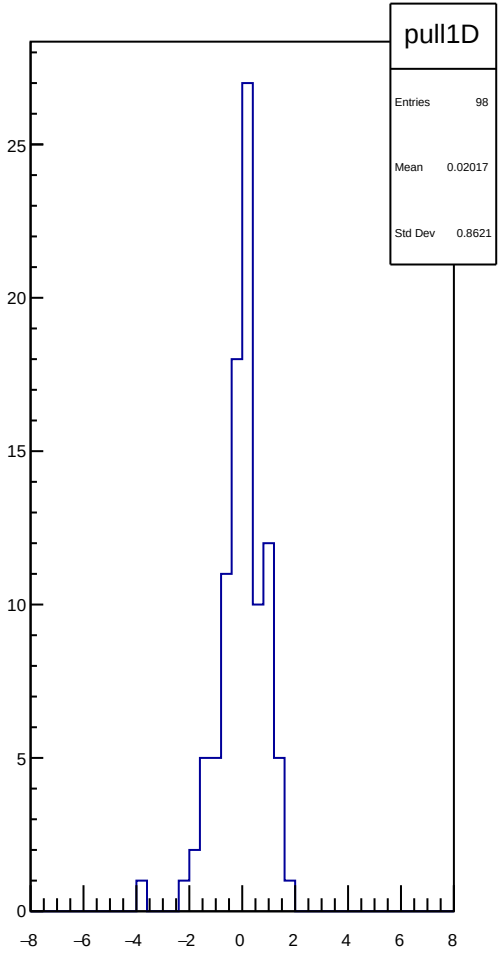

pull1D
Entries 98
Mean −0.02219
Std Dev 0.9319
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

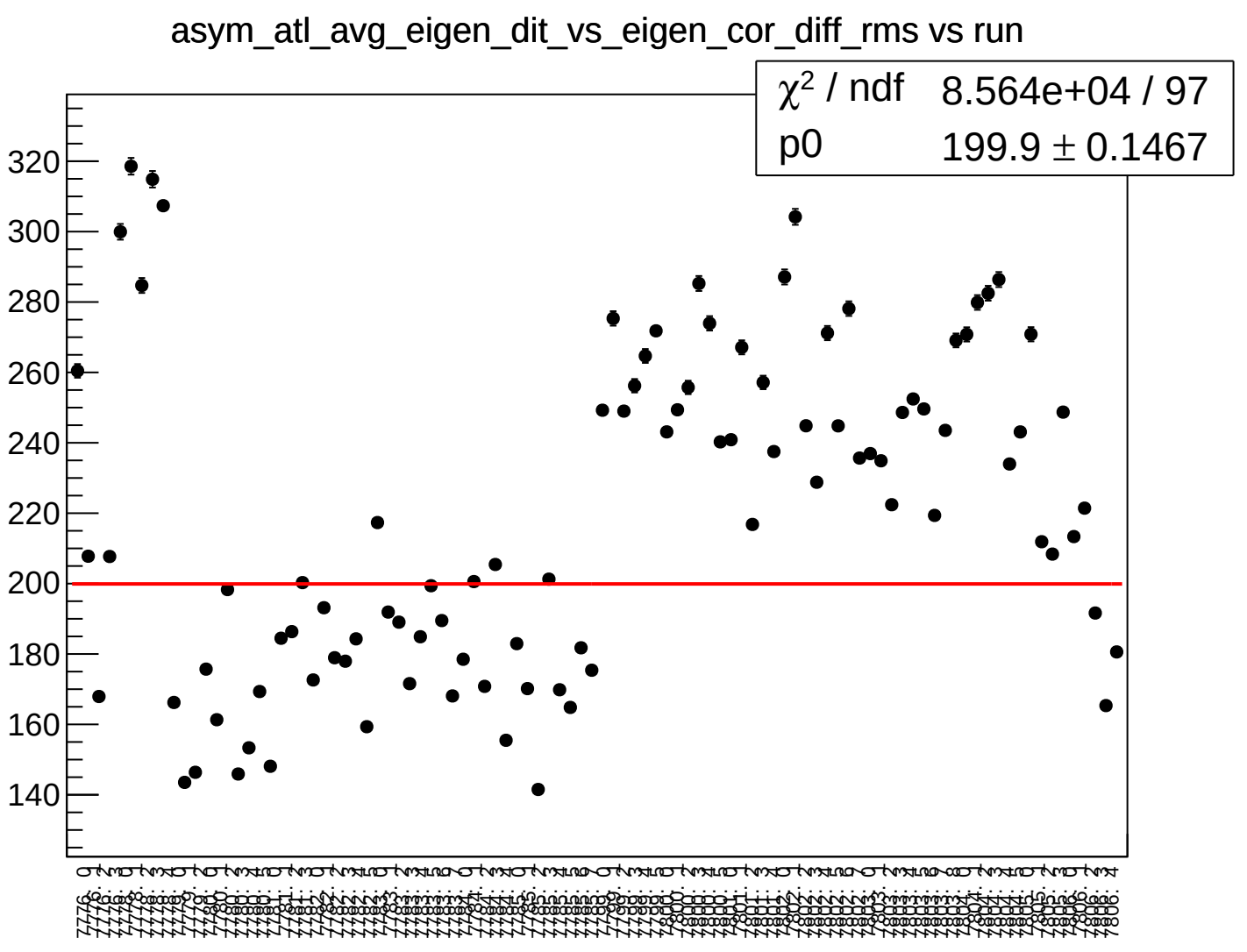

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.716e+05 / 97
p0 0.009255 ± 7.384e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

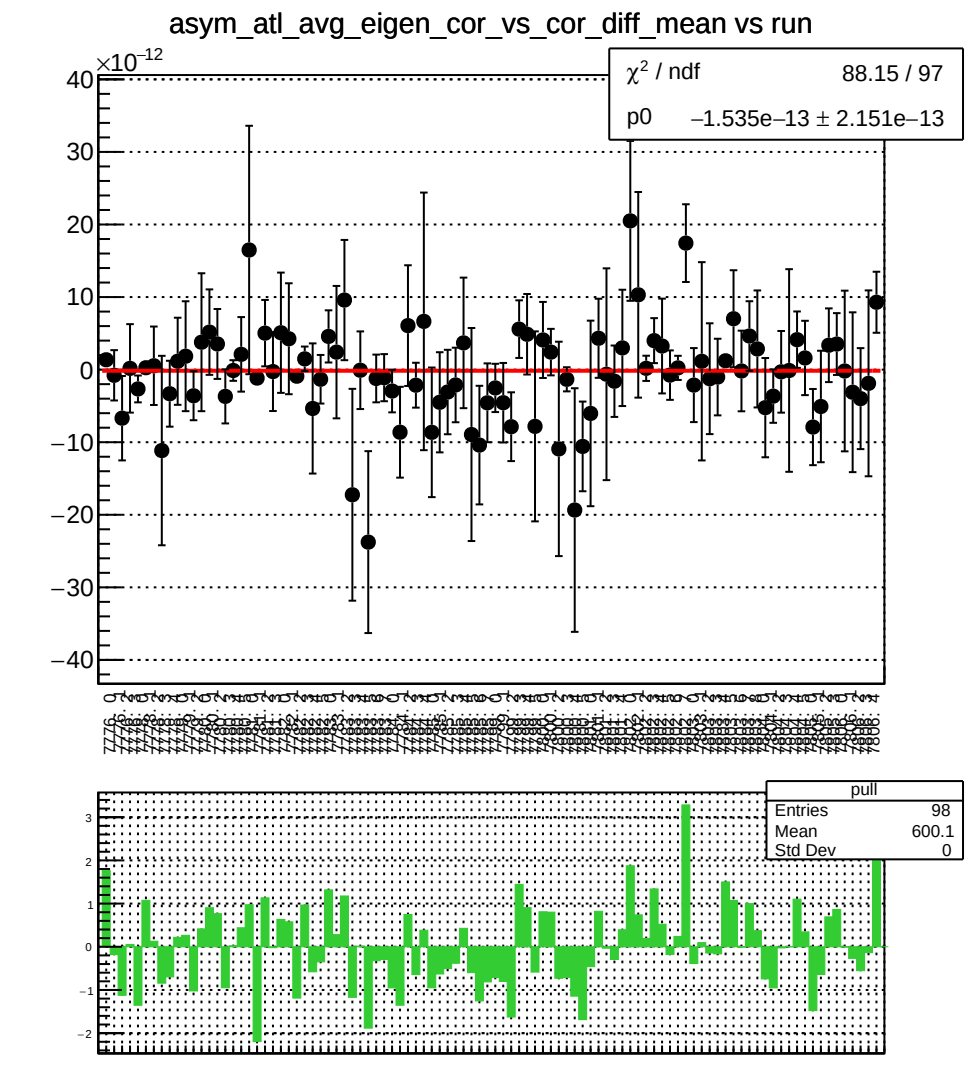

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.87 / 97
p0 −0.1906 ± 0.2074
pull
Entries 98
Mean 378
Std Dev 0
pull1D
Entries 98
Mean 0.02017
Std Dev 0.8621

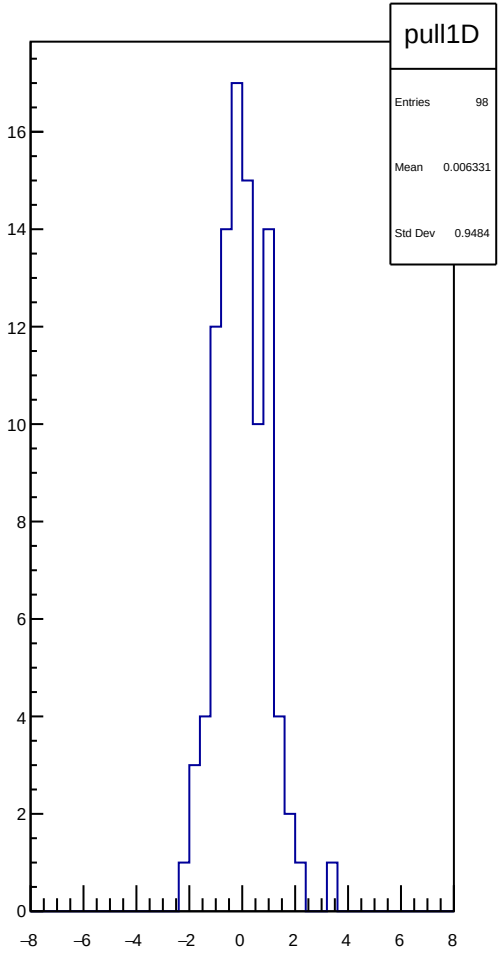

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.564e+04 / 97
p0 199.9 ± 0.1467
320
300
280
260
240
220
200
180
160
140

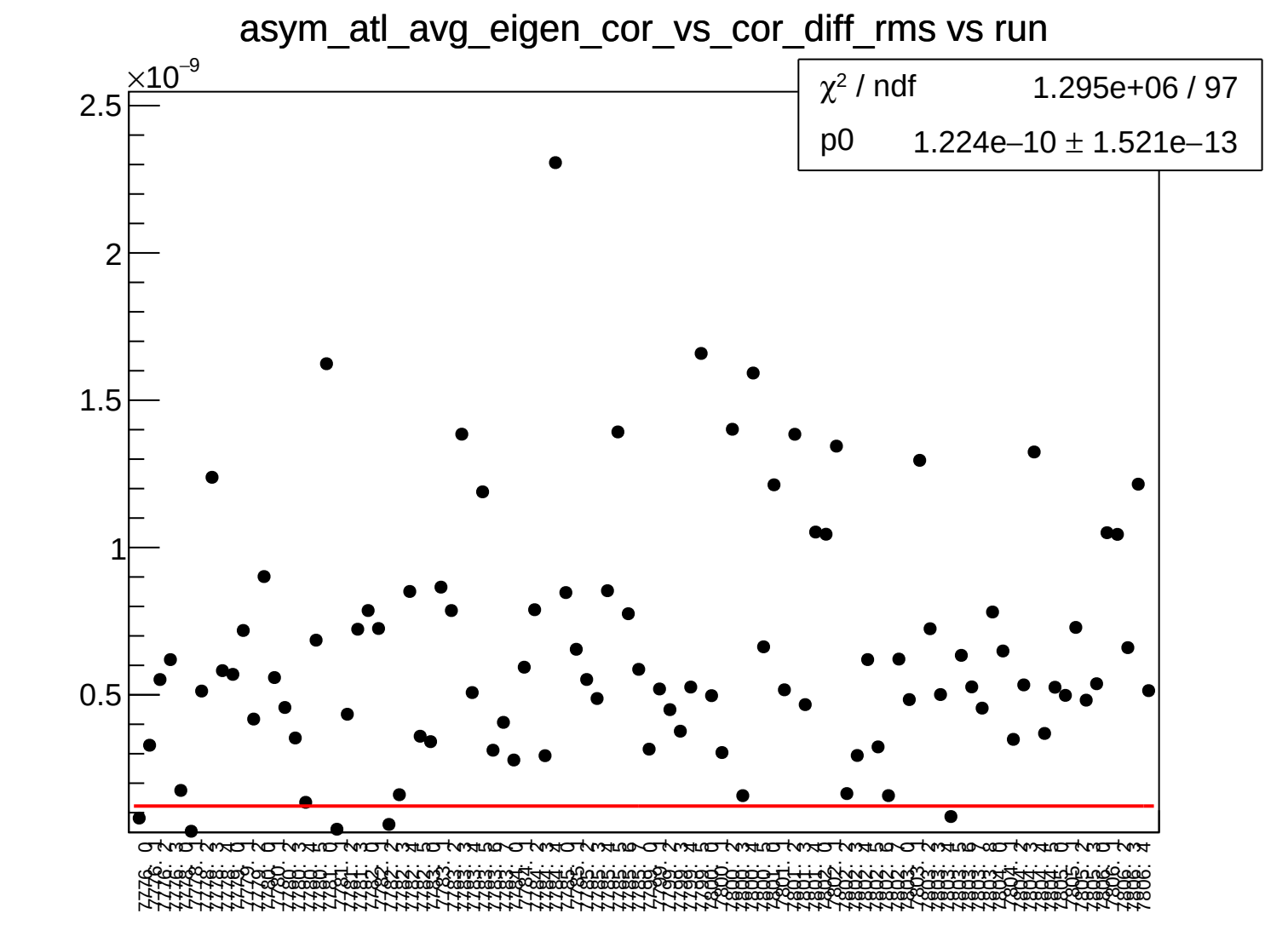

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.87 / 97
p0 −0.1906 ± 0.2074
pull
Entries 98
Mean 378
Std Dev 0

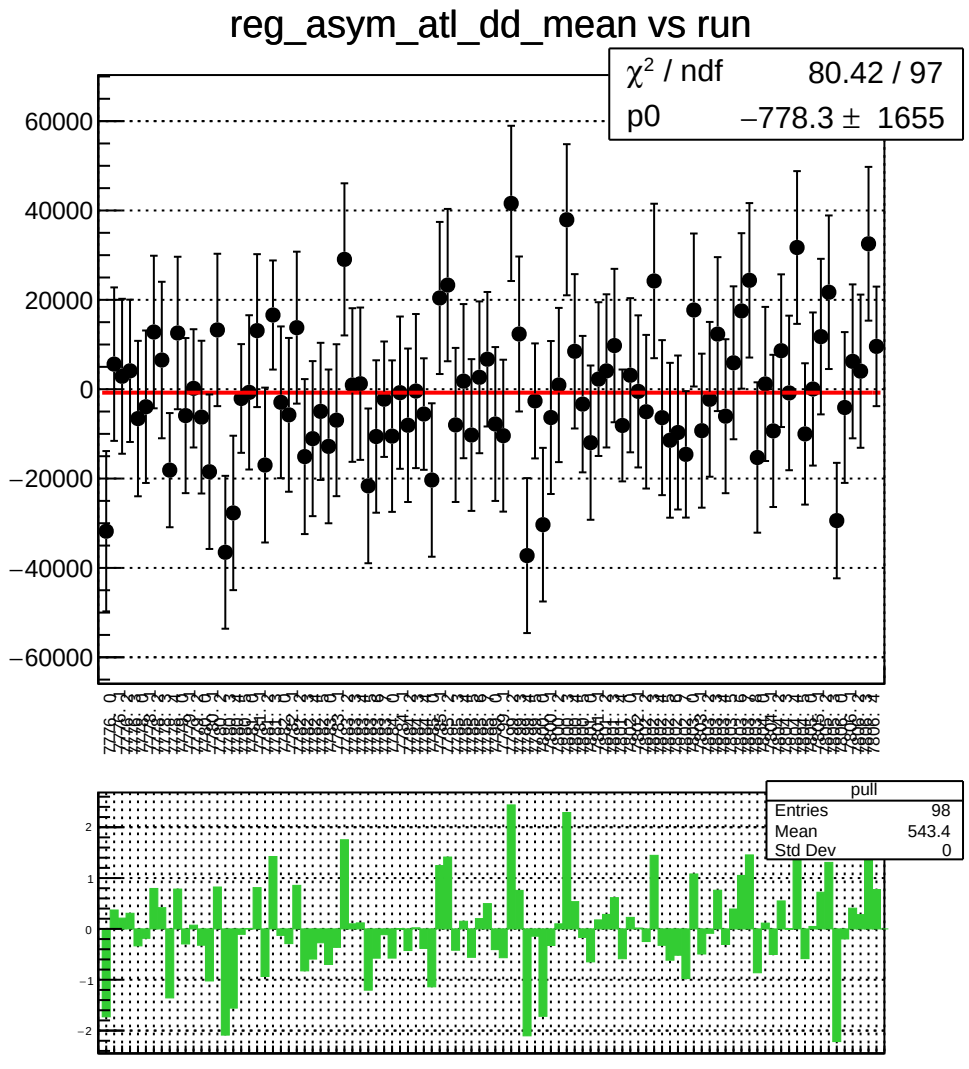

pull1D
Entries 98
Mean 0.02017
Std Dev 0.8621

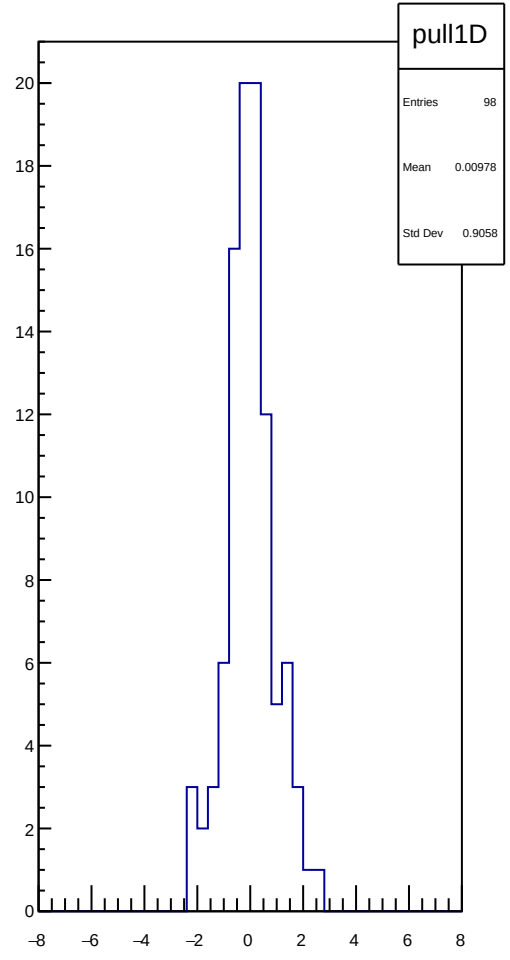

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.564e+04 / 97
p0 199.9 ± 0.1467
320
300
280
260
240
220
200
180
160
140

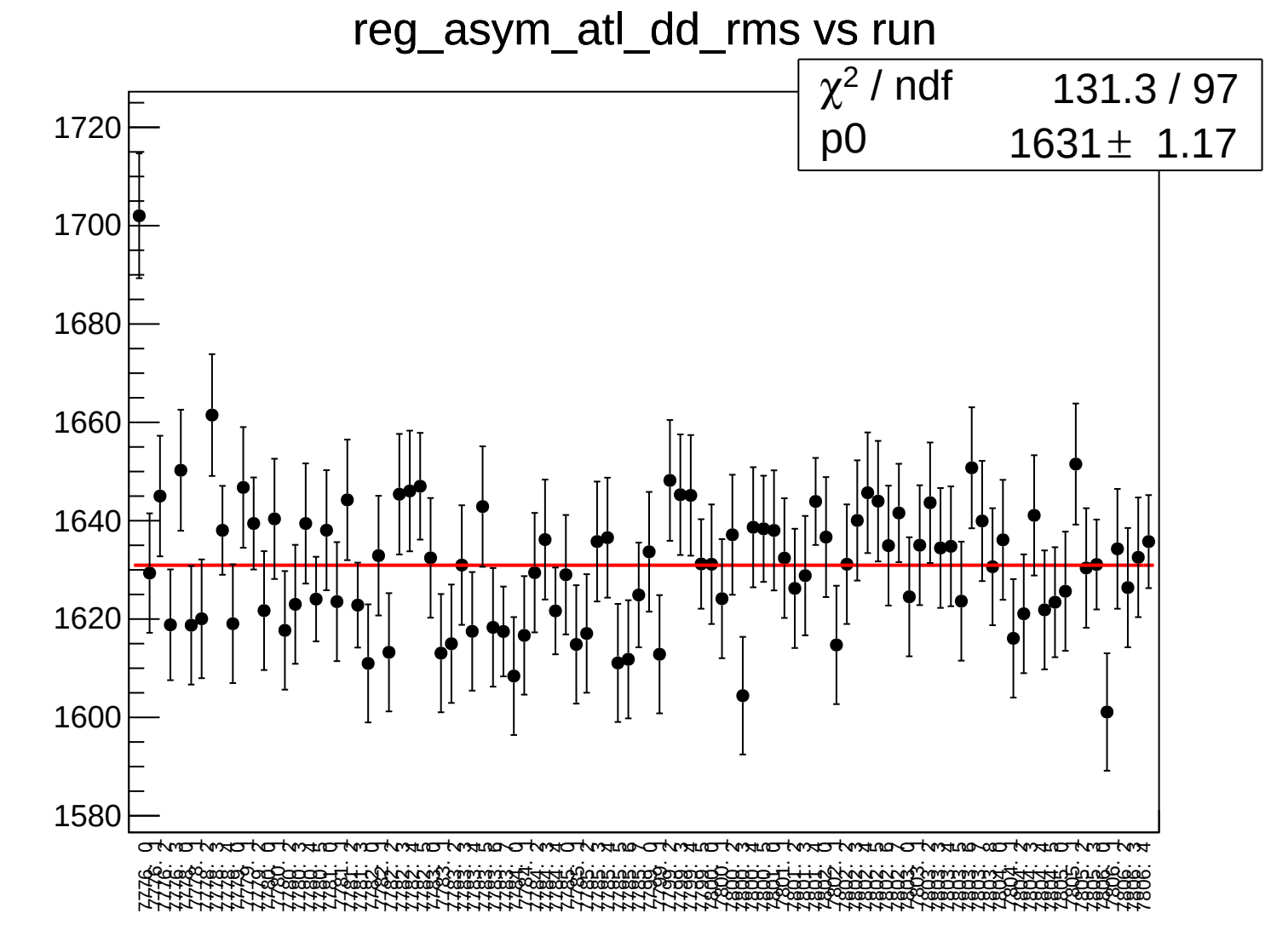

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.15 / 97
p0 −1.535e−13 ± 2.151e−13
pull
Entries 98
Mean 600.1
Std Dev 0

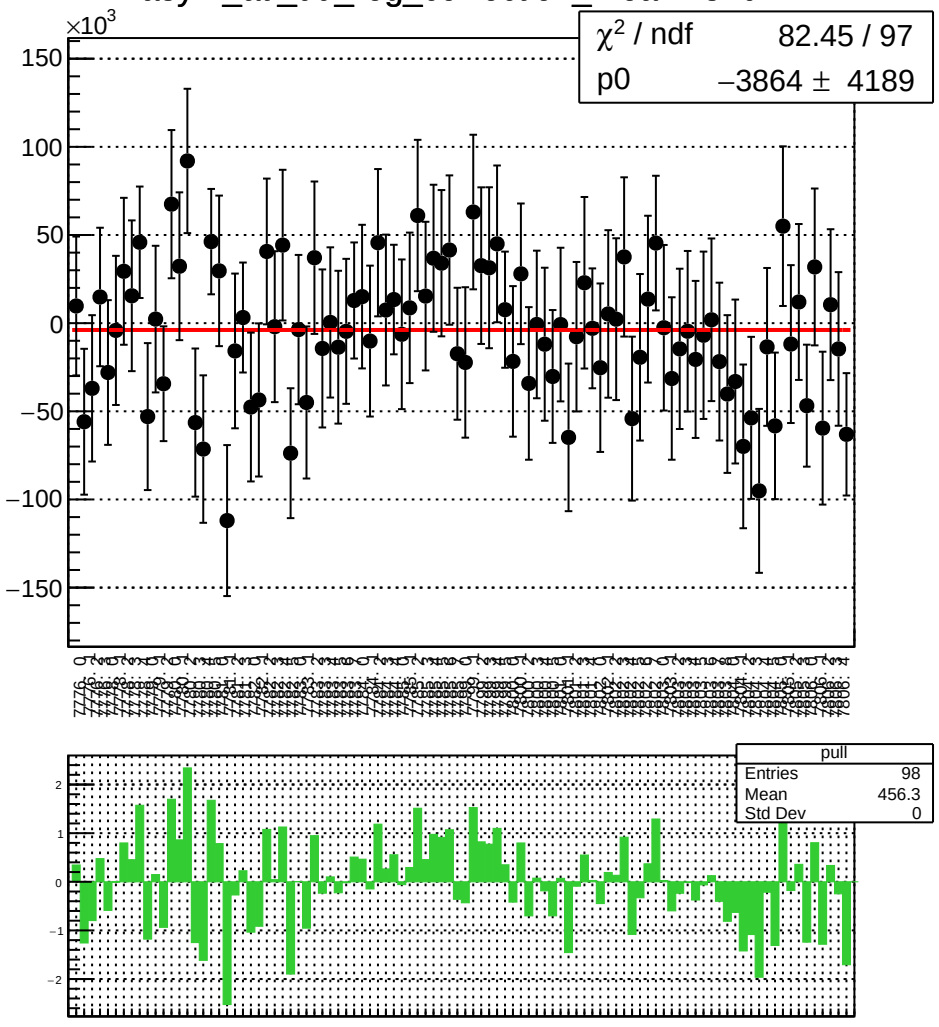

pull1D
Entries 98
Mean 0.006331
Std Dev 0.9484

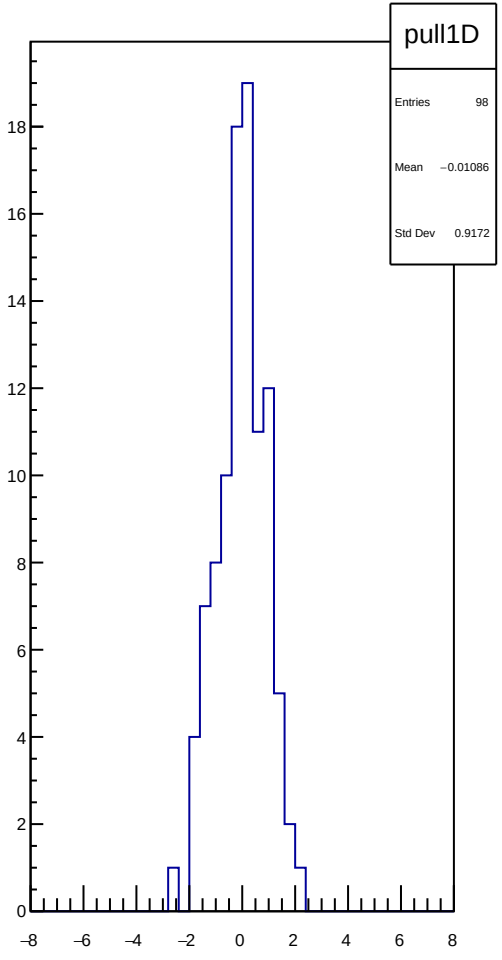

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 1.295e+06 / 97
p0 1.224e−10 ± 1.521e−13

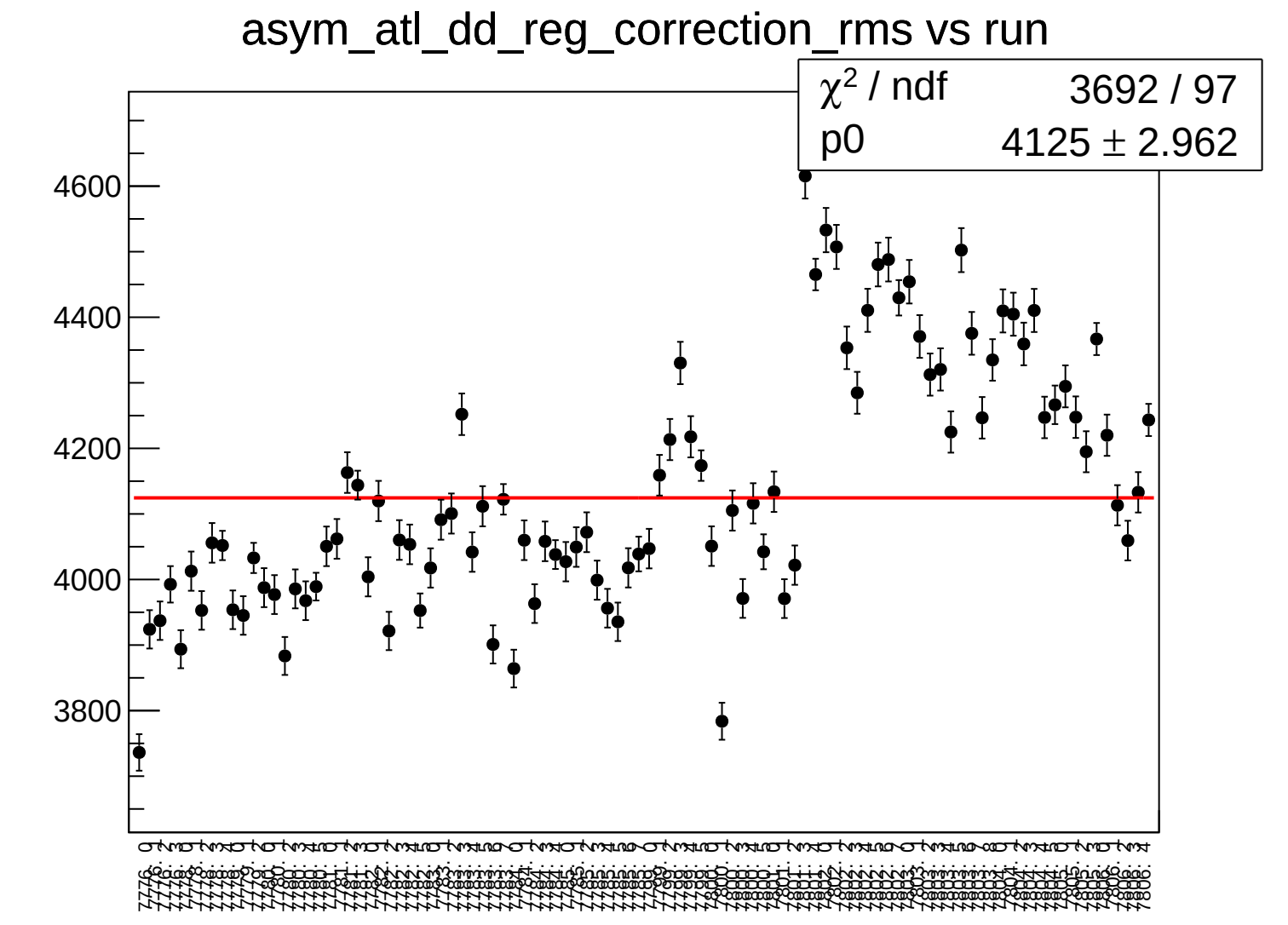

reg_asym_atl_dd_mean vs run
χ² / ndf 80.42 / 97
p0 −778.3 ± 1655
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 543.4
Std Dev 0
2
1
0
−1
−2

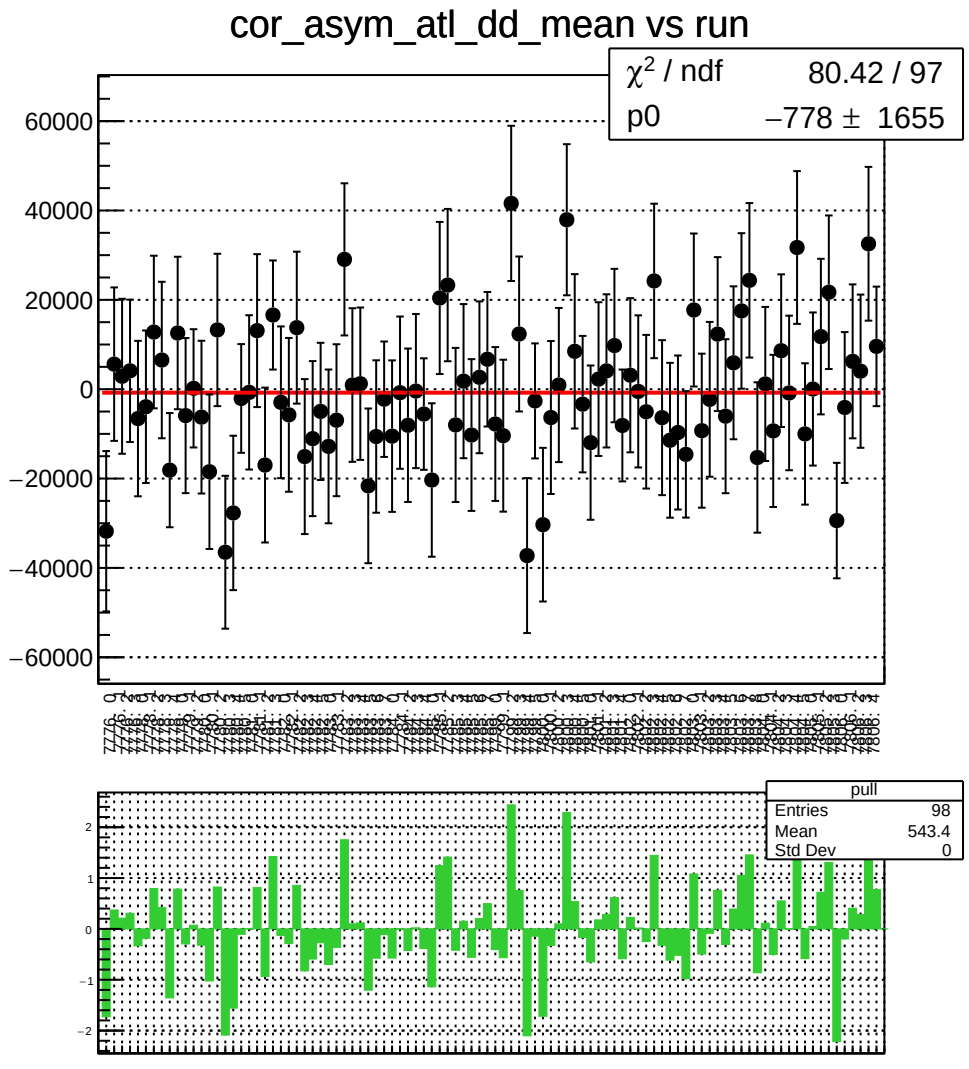

pull1D
Entries 98
Mean 0.00978
Std Dev 0.9058
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

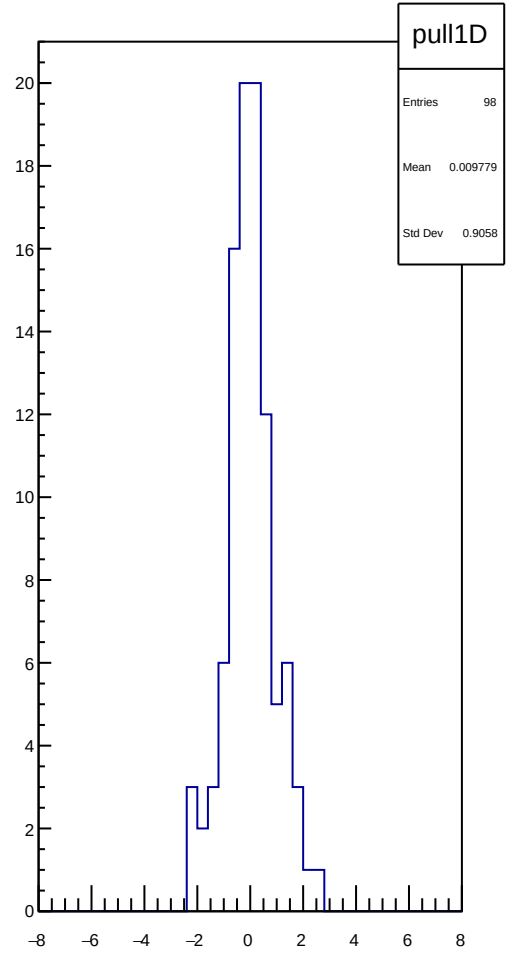

reg_asym_atl_dd_rms vs run
χ^2 / ndf 131.3 / 97
p0 1631 ± 1.17
1720
1700
1680
1660
1640
1620
1600
1580

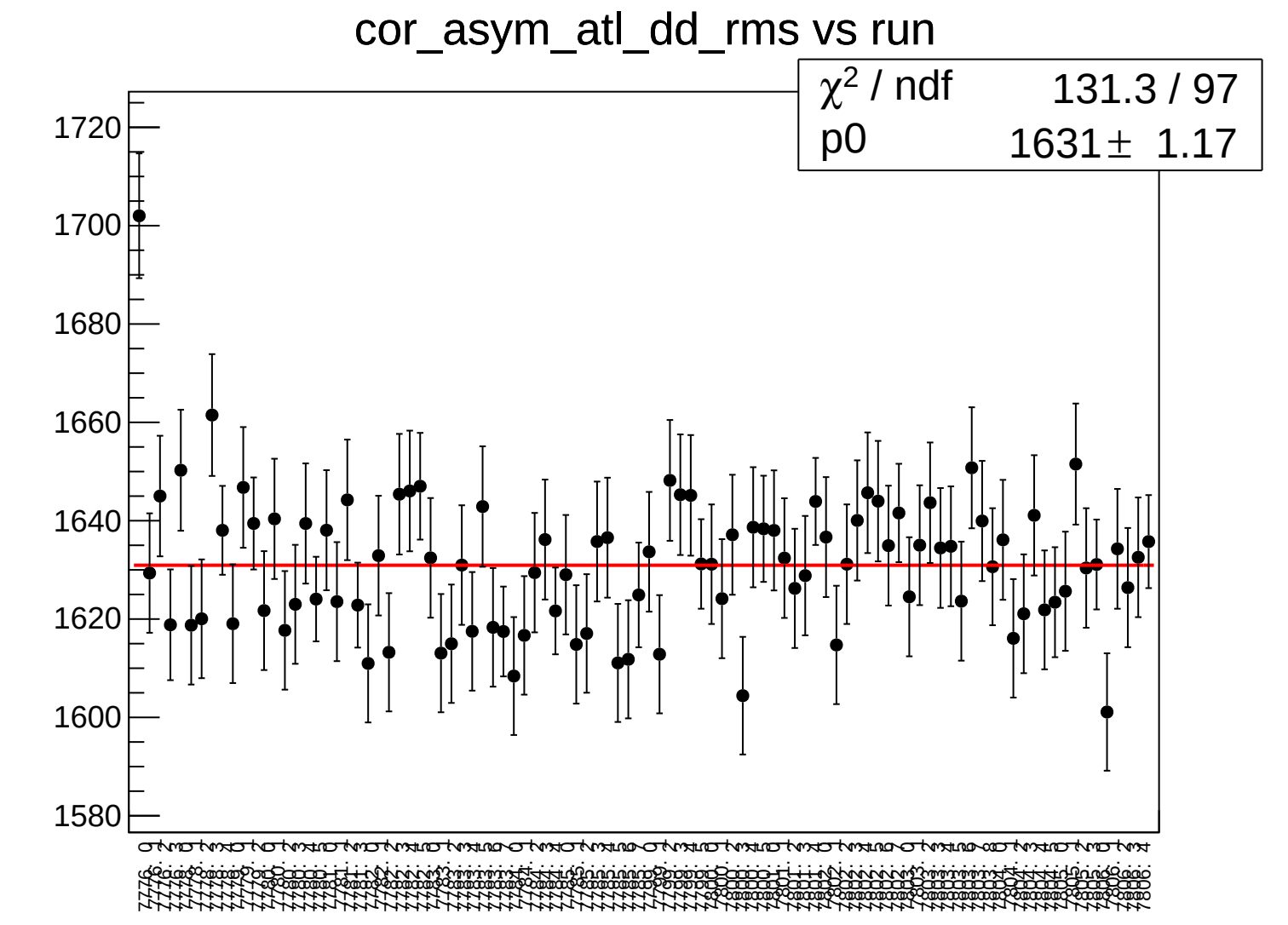

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.45 / 97
p0 −3864 ± 4189
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 456.3
Std Dev 0
2
1
0
−1
−2

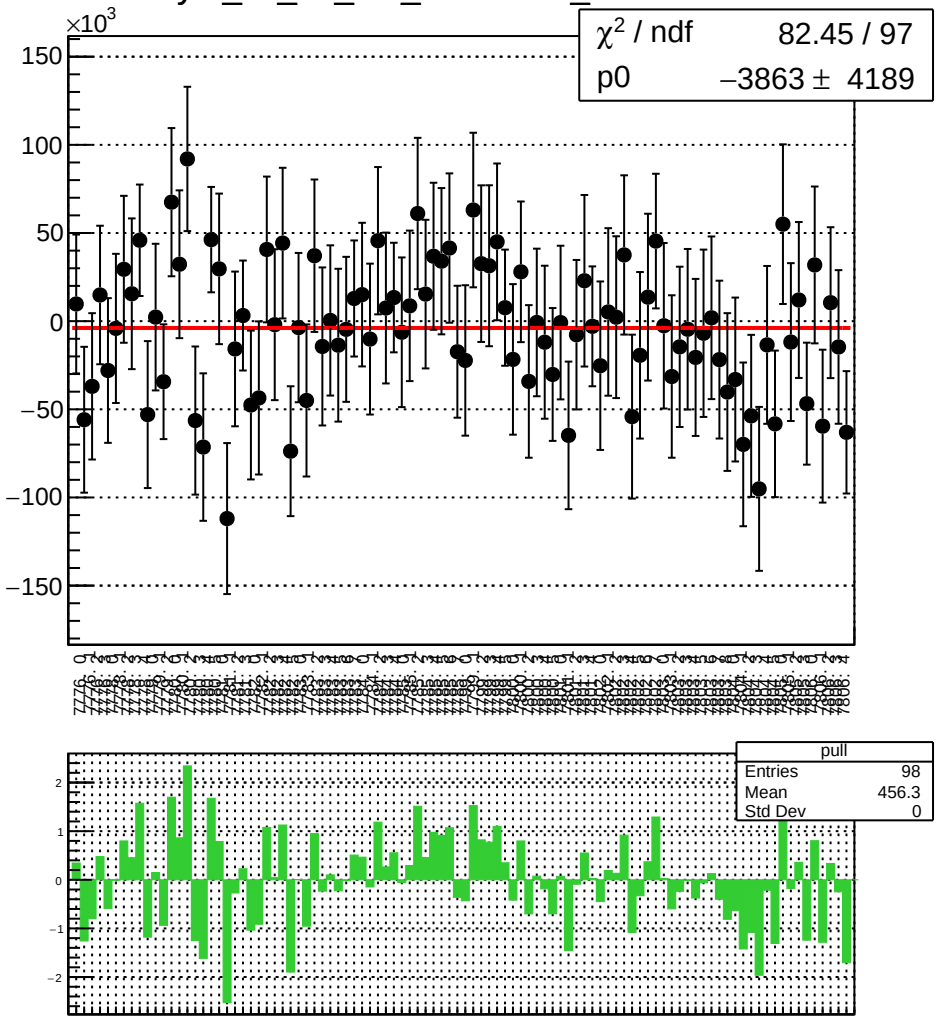

pull1D
Entries 98
Mean −0.01086
Std Dev 0.9172
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

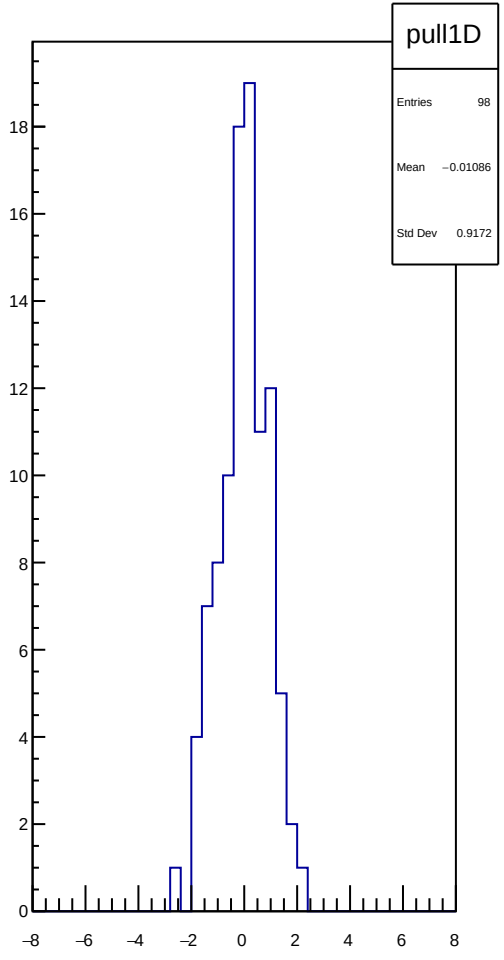

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 3692 / 97
p0 4125 ± 2.962
4600
4400
4200
4000
3800

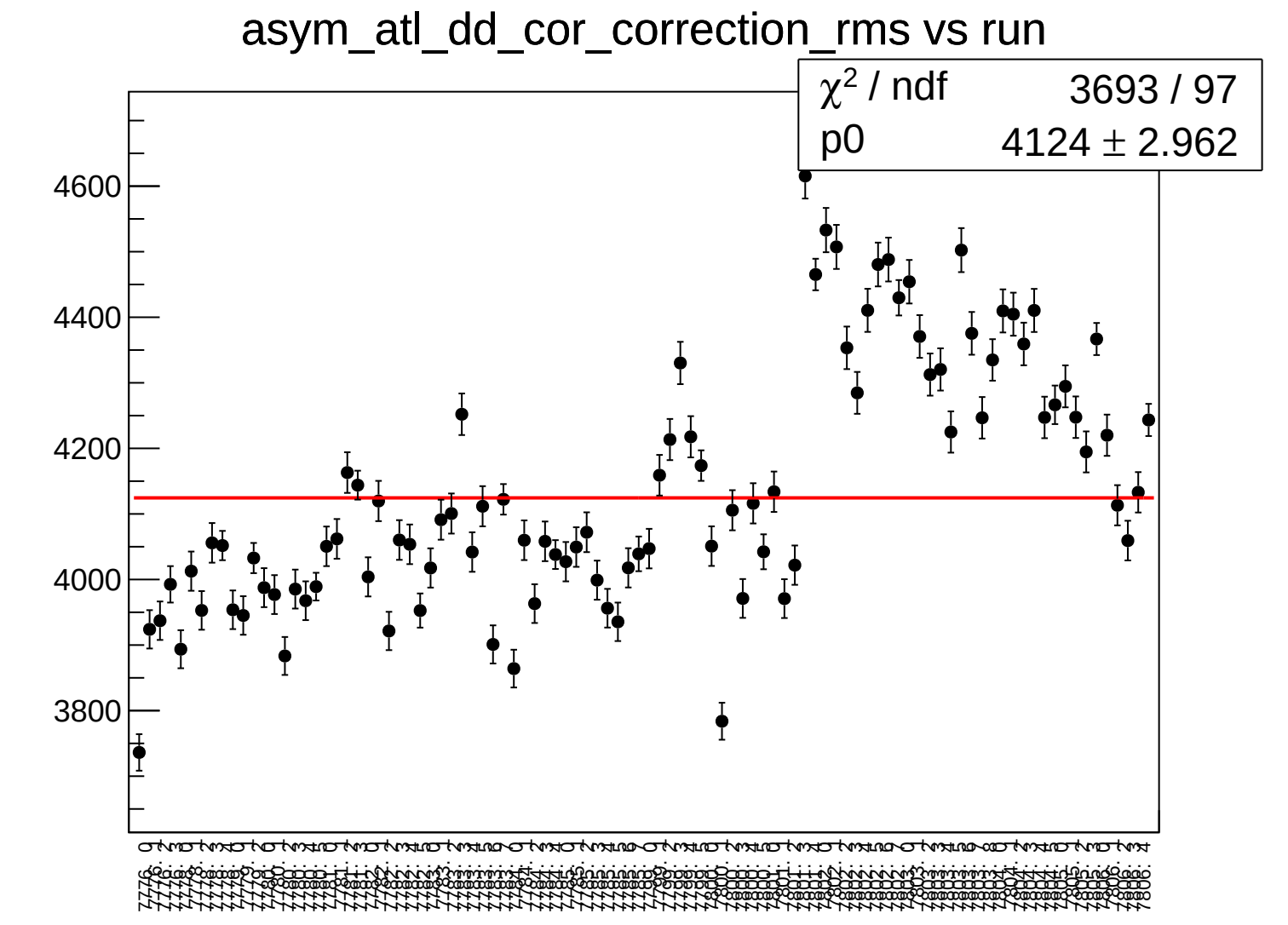

cor_asym_atl_dd_mean vs run
χ² / ndf 80.42 / 97
p0 −778 ± 1655
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 543.4
Std Dev 0
2
1
0
−1
−2

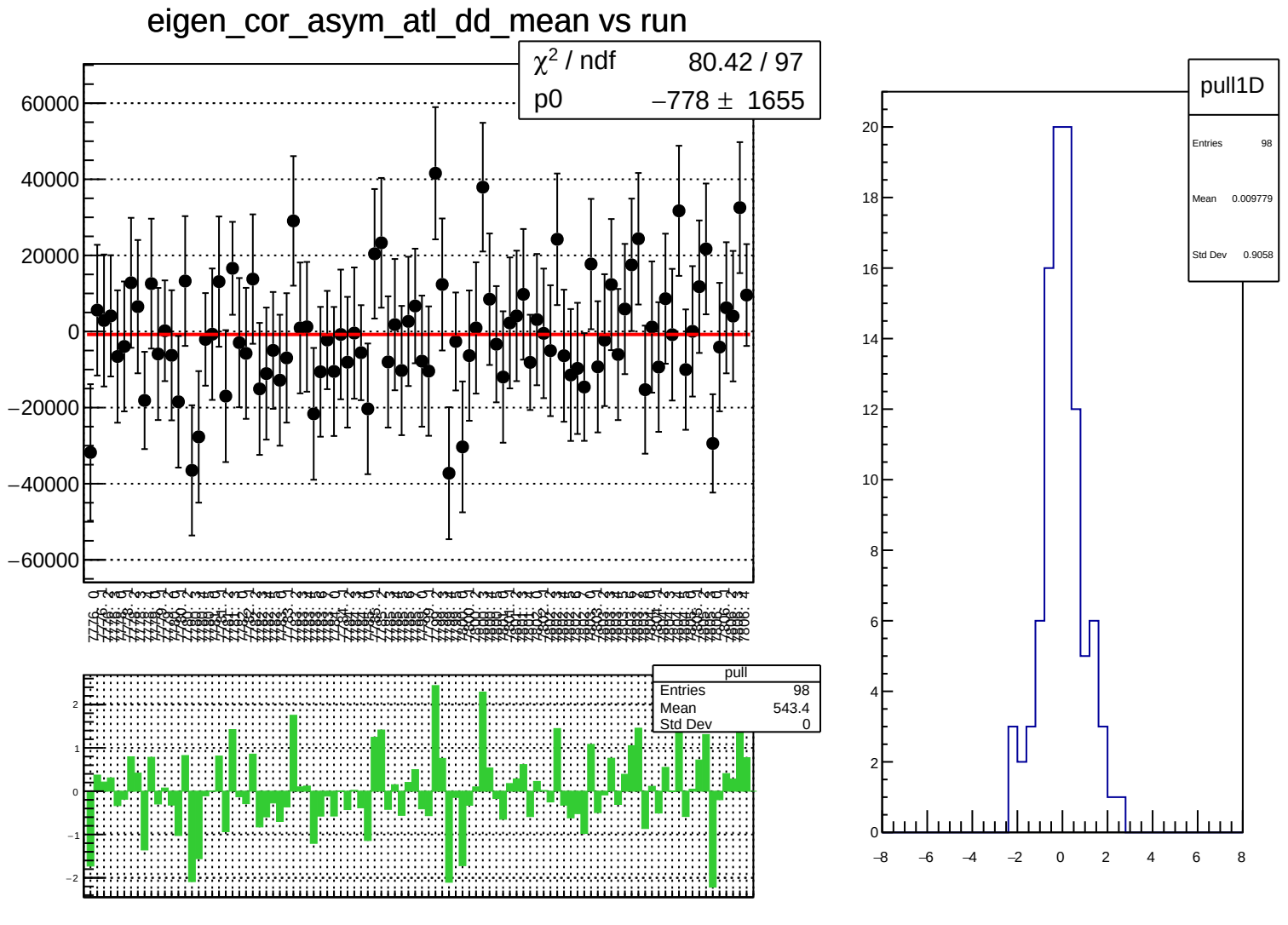

pull1D
Entries 98
Mean 0.009779
Std Dev 0.9058
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

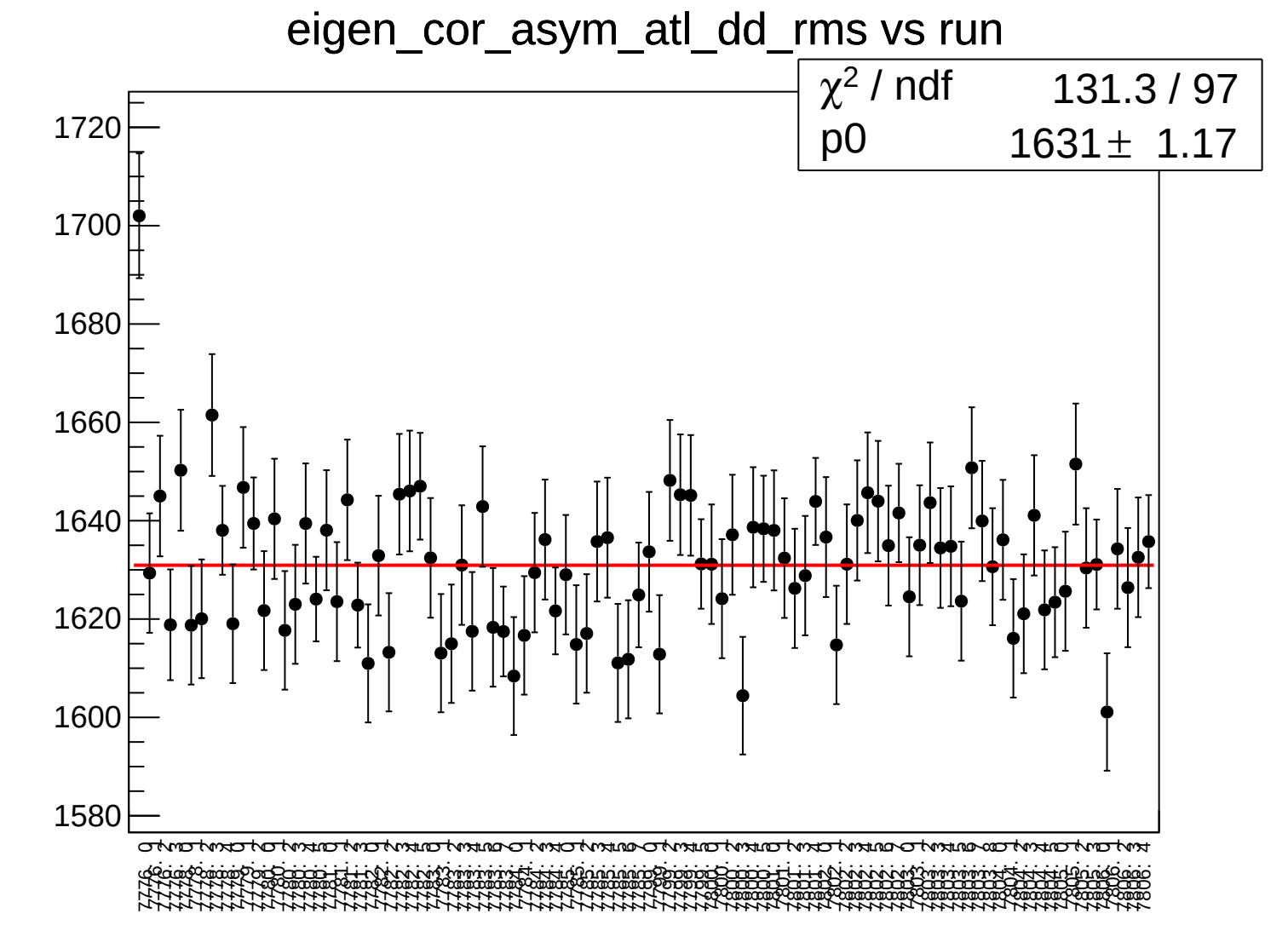

cor_asym_atl_dd_rms vs run
χ² / ndf 131.3 / 97
p0 1631 ± 1.17
1720
1700
1680
1660
1640
1620
1600
1580

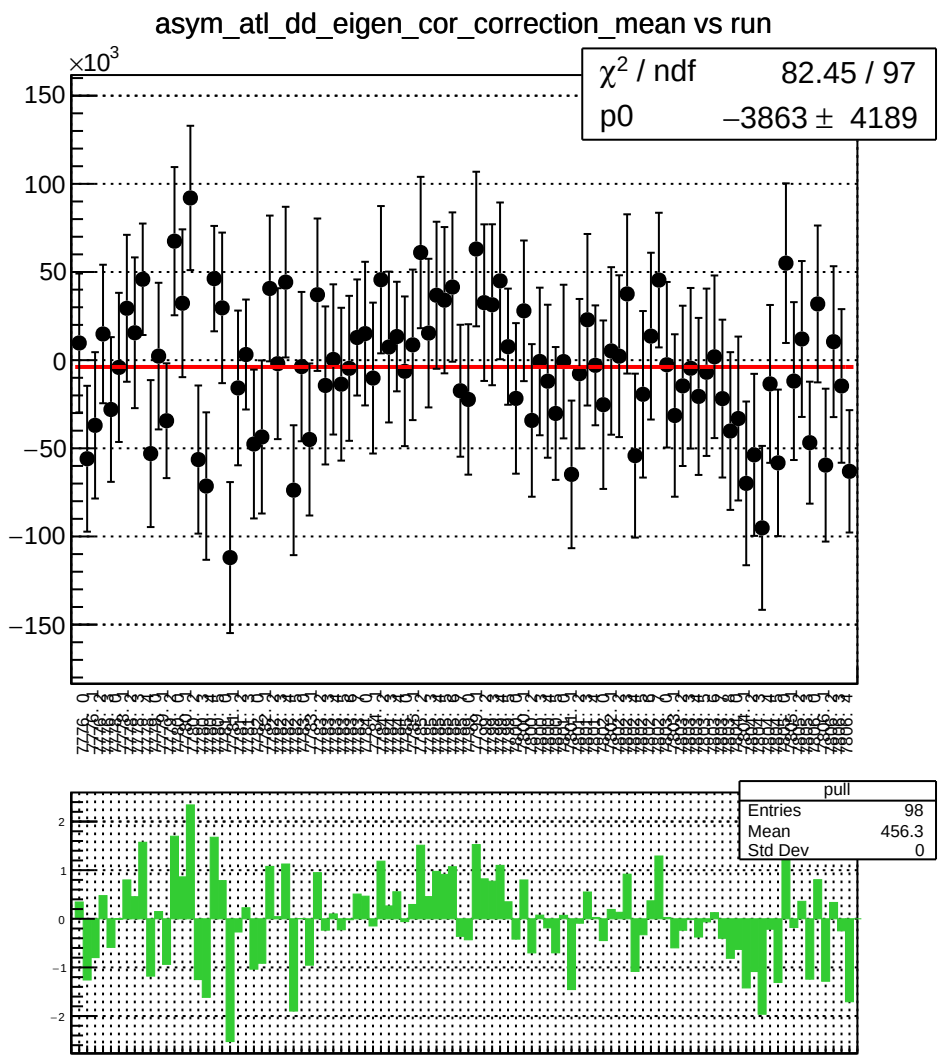

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.45 / 97
p0 −3863 ± 4189
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 456.3
Std Dev 0
2
1
0
−1
−2

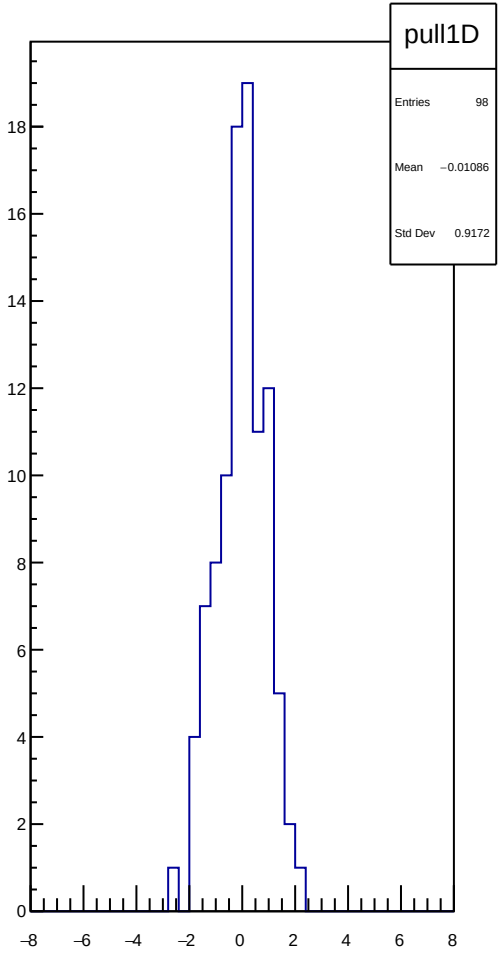

pull1D
Entries 98
Mean −0.01086
Std Dev 0.9172
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

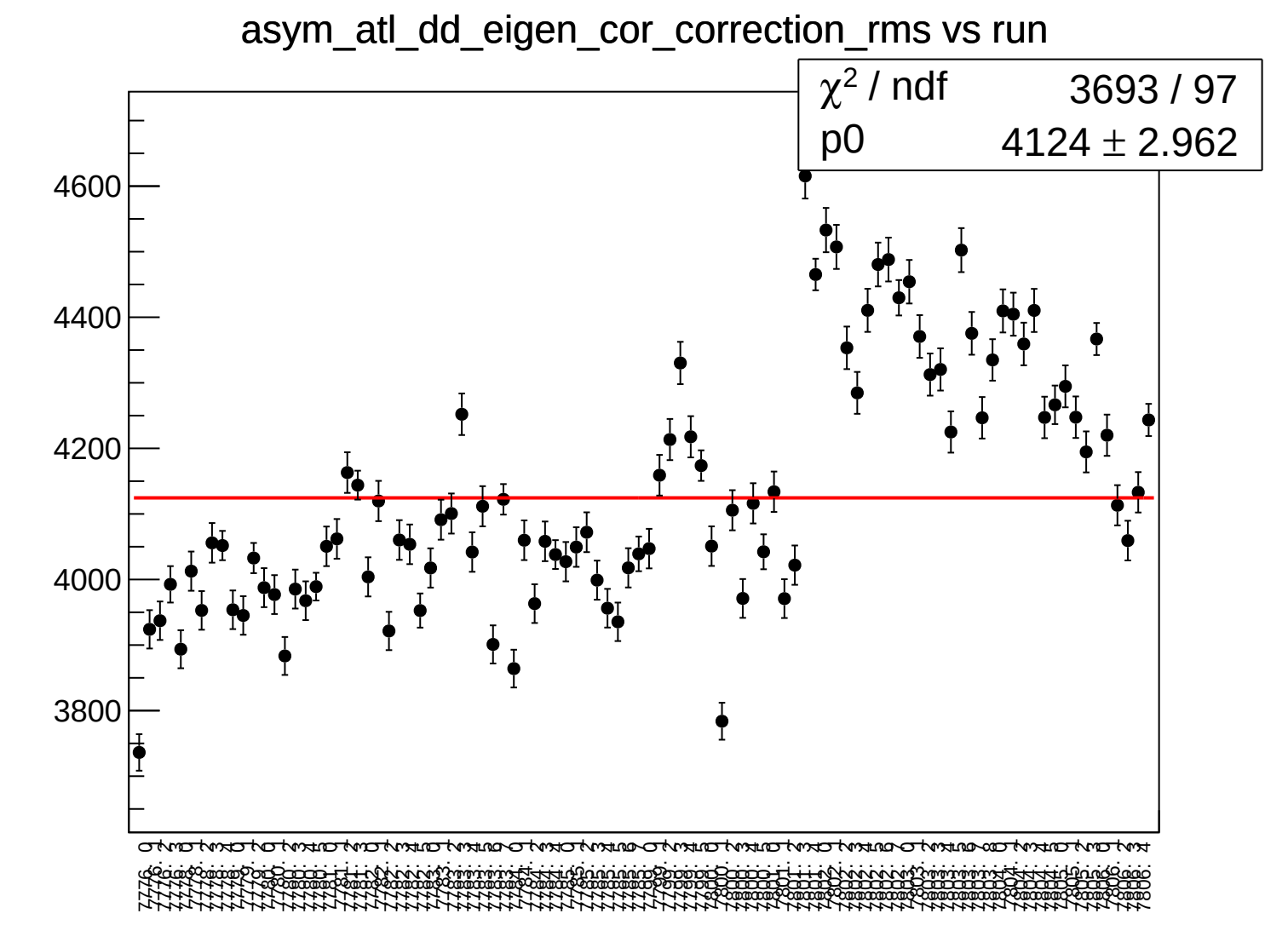

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 3693 / 97
p0 4124 ± 2.962
4600
4400
4200
4000
3800

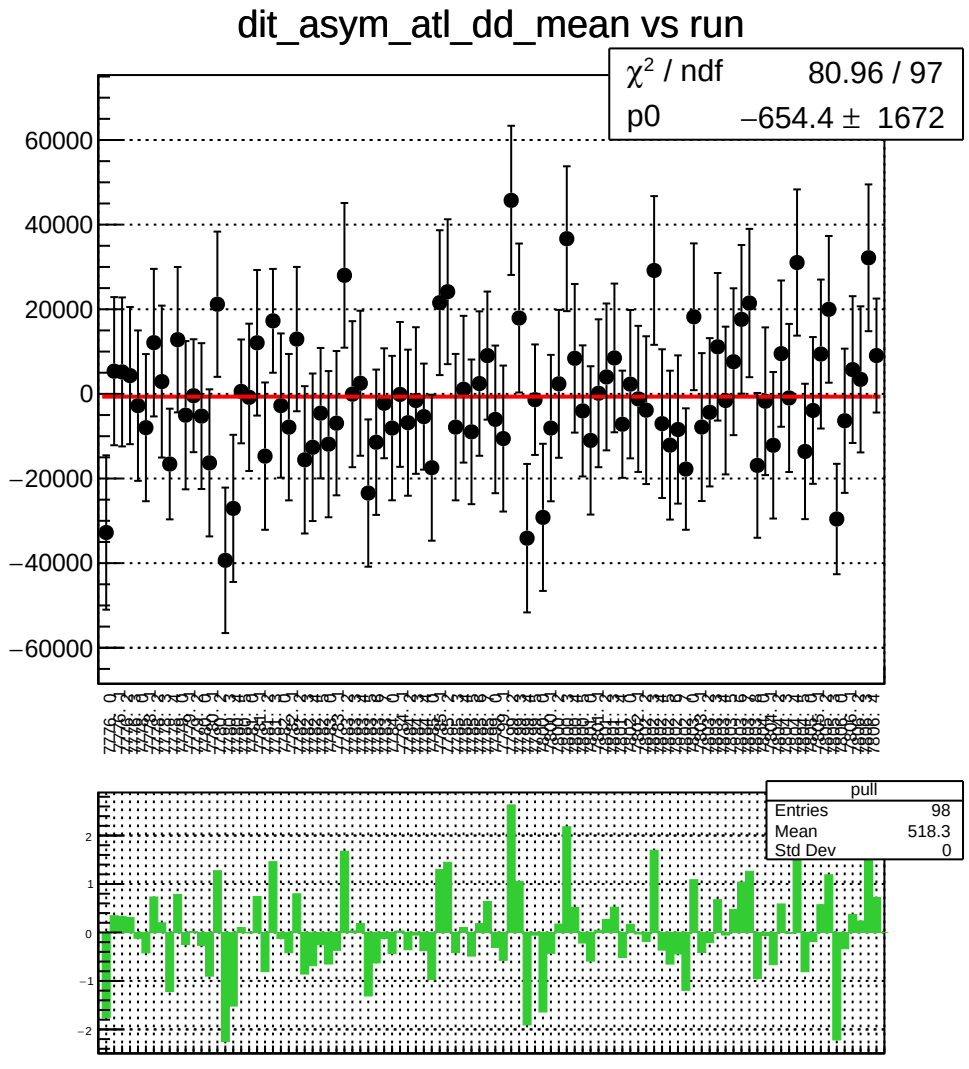

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 80.42 / 97
p0 −778 ± 1655
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 543.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.009779
Std Dev 0.9058
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

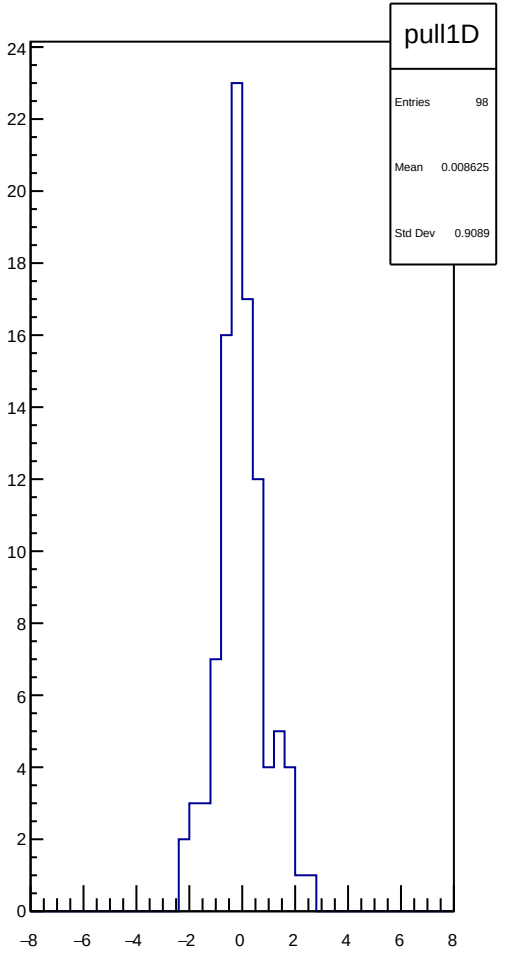

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 131.3 / 97
p0 1631 ± 1.17
1720
1700
1680
1660
1640
1620
1600
1580

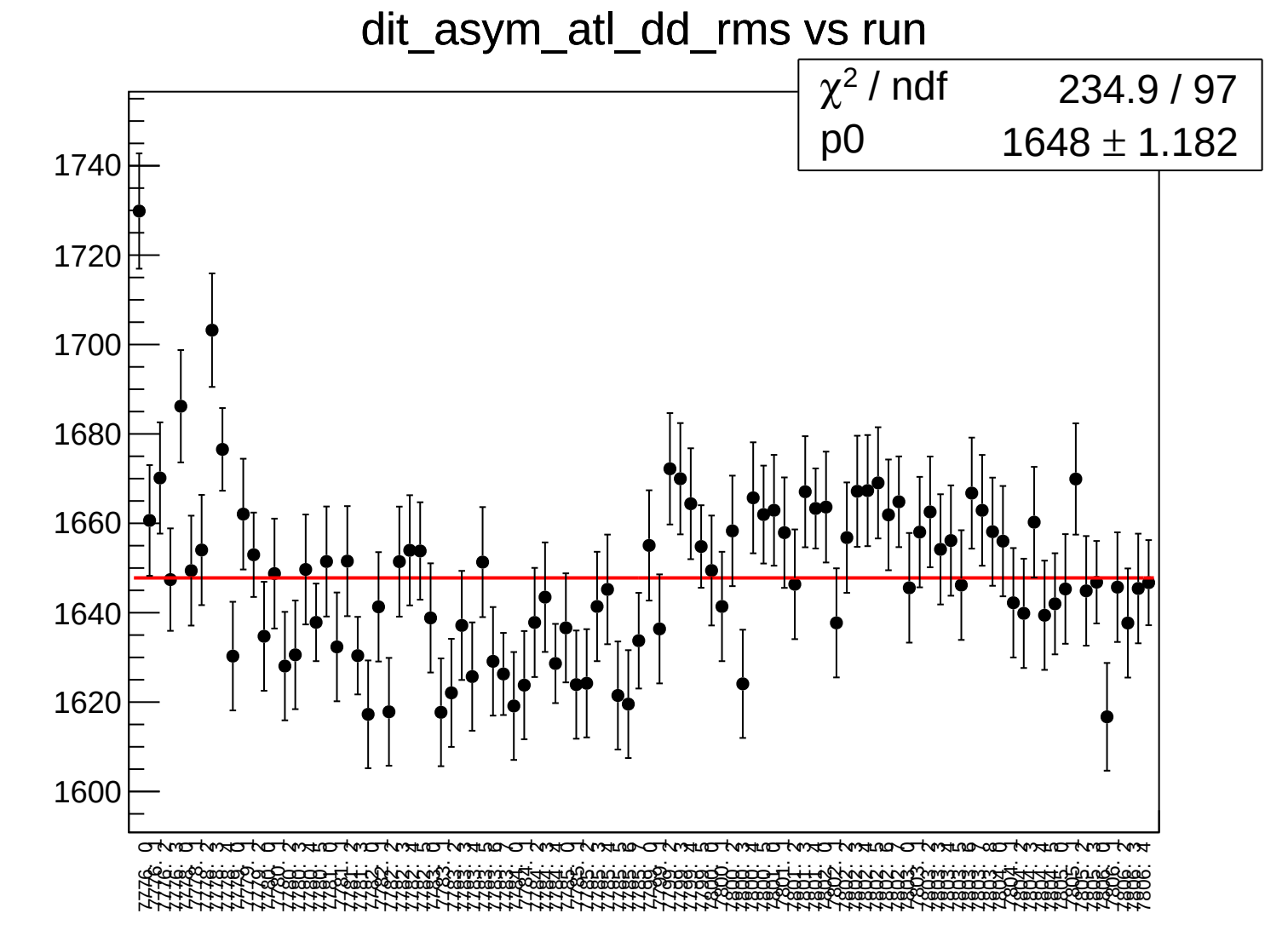

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.45 / 97
p0 −3863 ± 4189
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 456.3
Std Dev 0
2
1
0
−1
−2

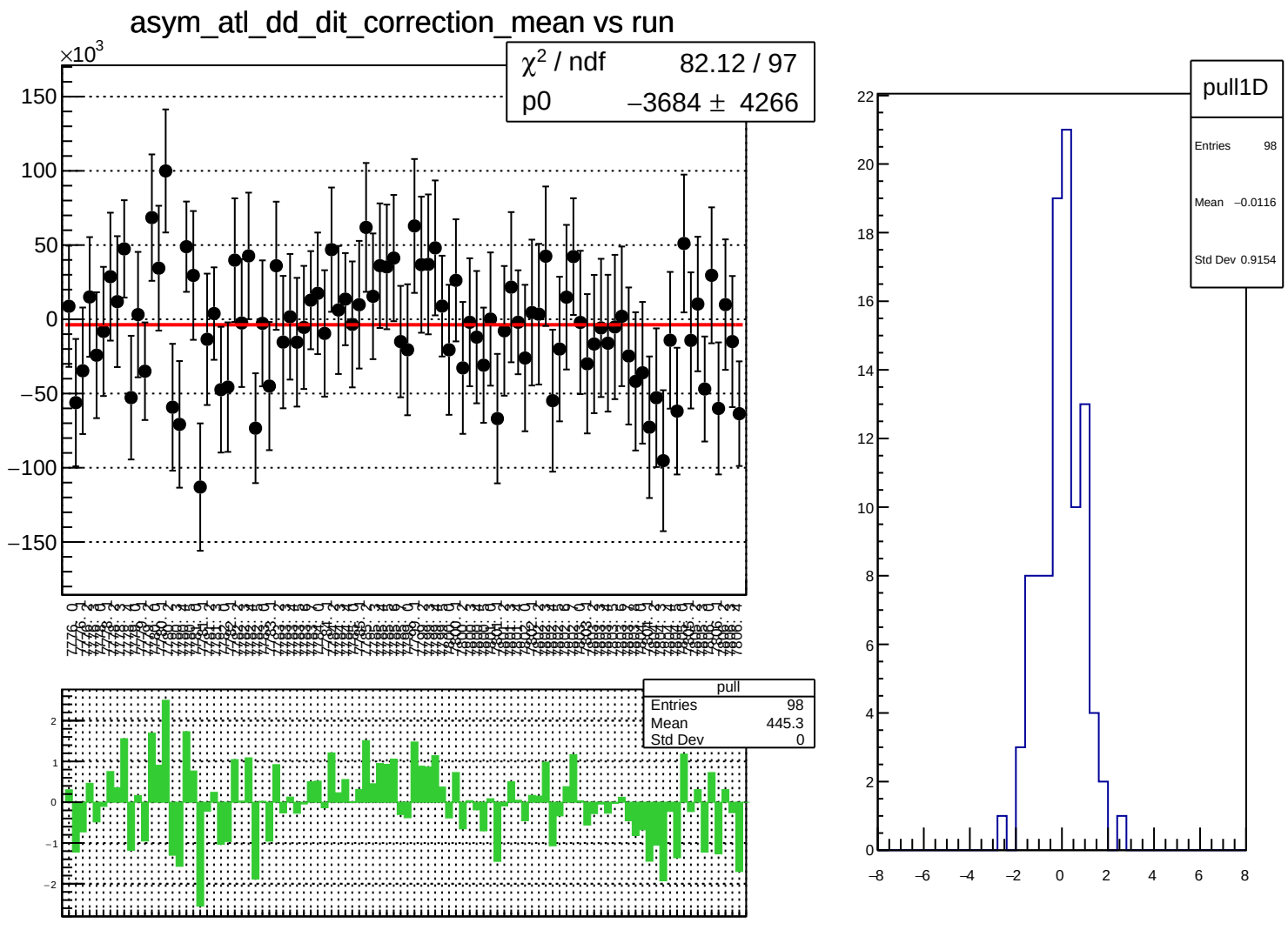

pull1D
Entries 98
Mean −0.01086
Std Dev 0.9172
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

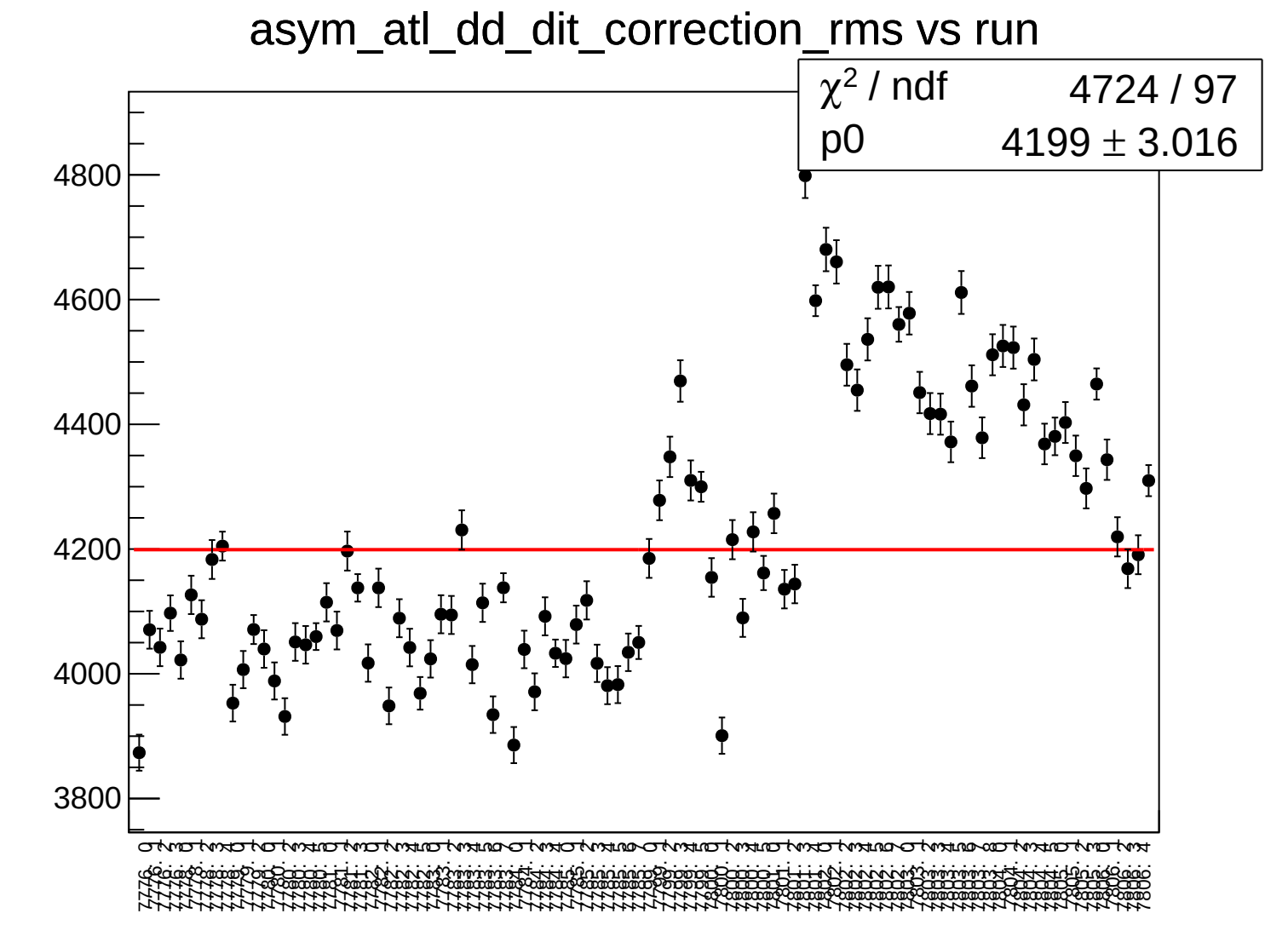

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 3693 / 97
p0 4124 ± 2.962
4600
4400
4200
4000
3800

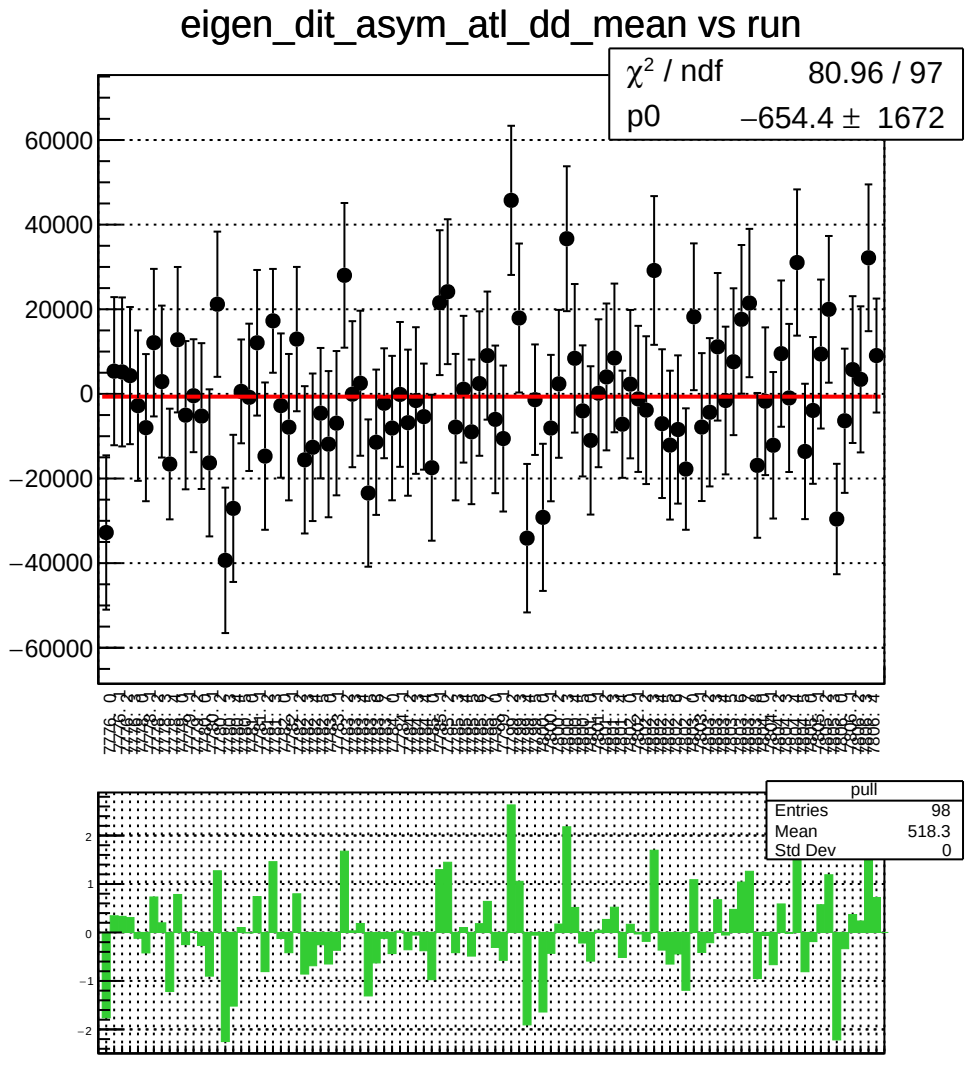

dit_asym_atl_dd_mean vs run
χ² / ndf 80.96 / 97
p0 −654.4 ± 1672
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 518.3
Std Dev 0
2
1
0
−1
−2

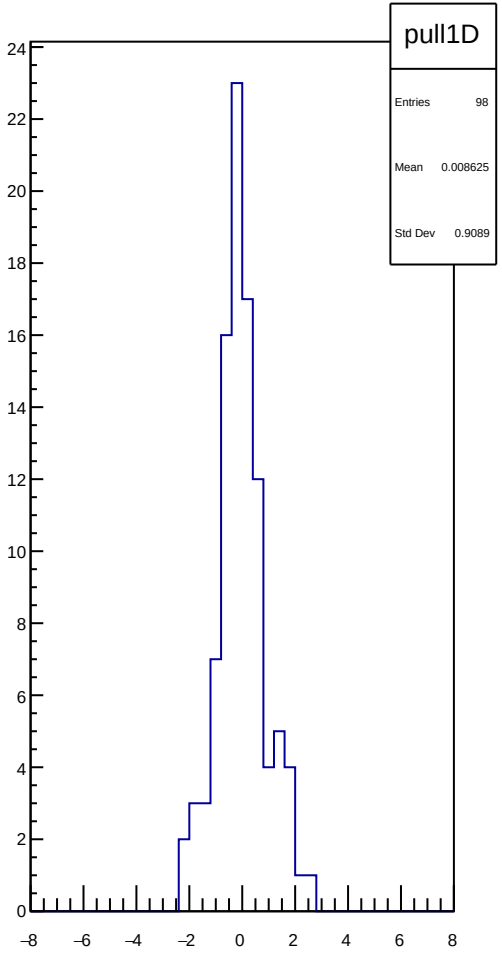

pull1D
Entries 98
Mean 0.008625
Std Dev 0.9089
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

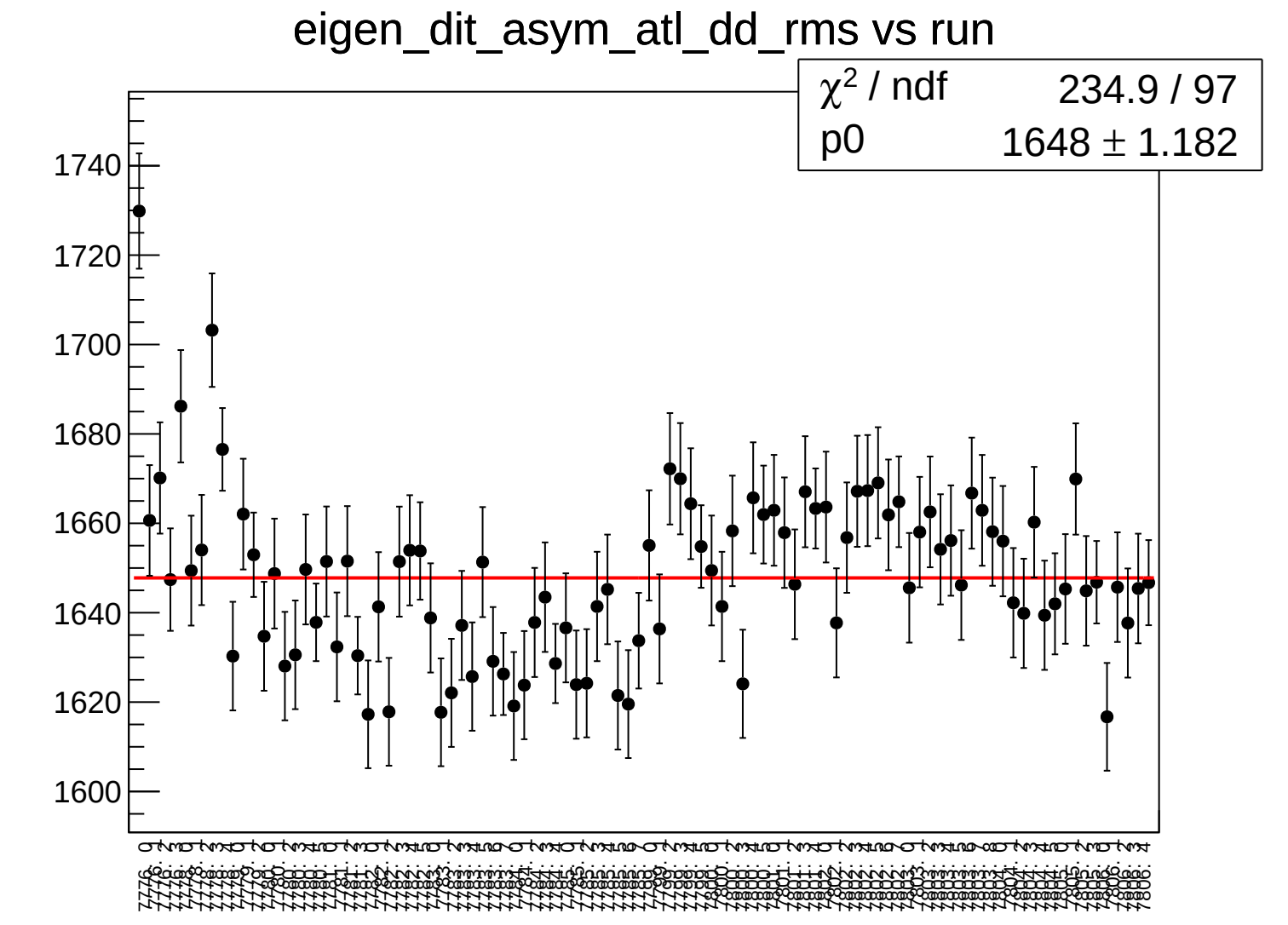

dit_asym_atl_dd_rms vs run
χ² / ndf 234.9 / 97
p0 1648 ± 1.182
1740
1720
1700
1680
1660
1640
1620
1600

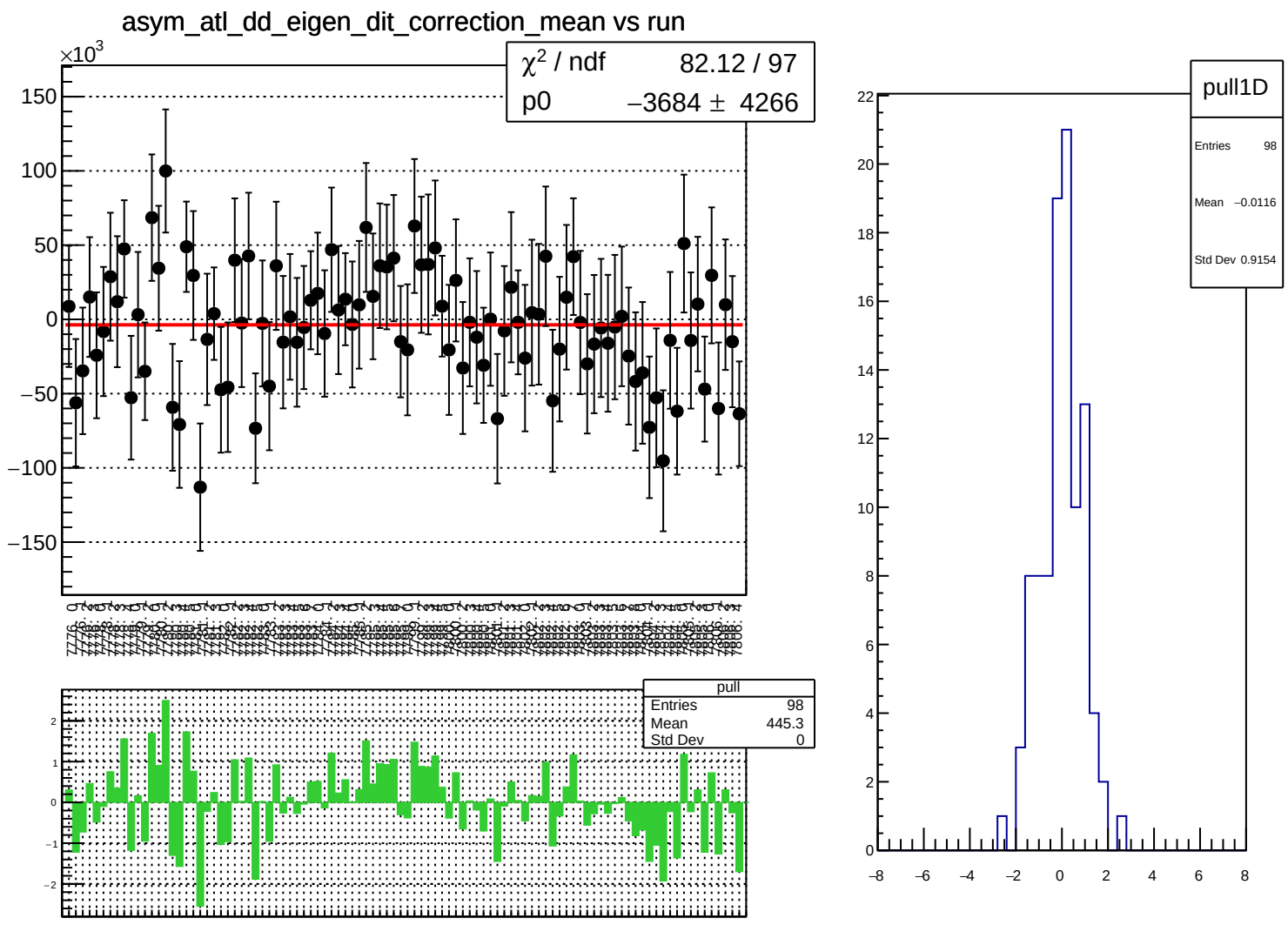

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 82.12 / 97
p0 −3684 ± 4266
×10³
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 445.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.0116
Std Dev 0.9154
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

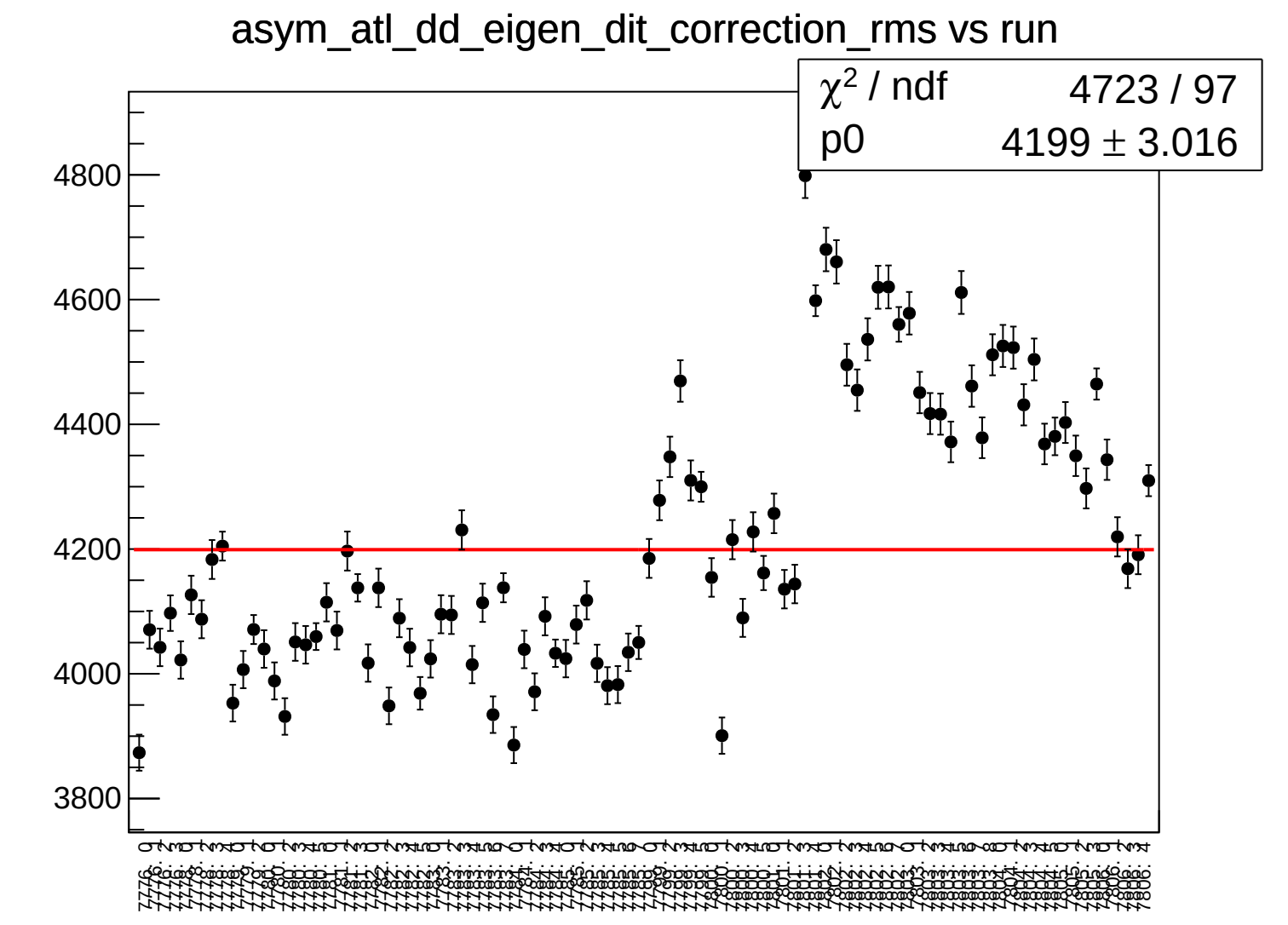

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 4724 / 97
p0 4199 ± 3.016
4800
4600
4400
4200
4000
3800

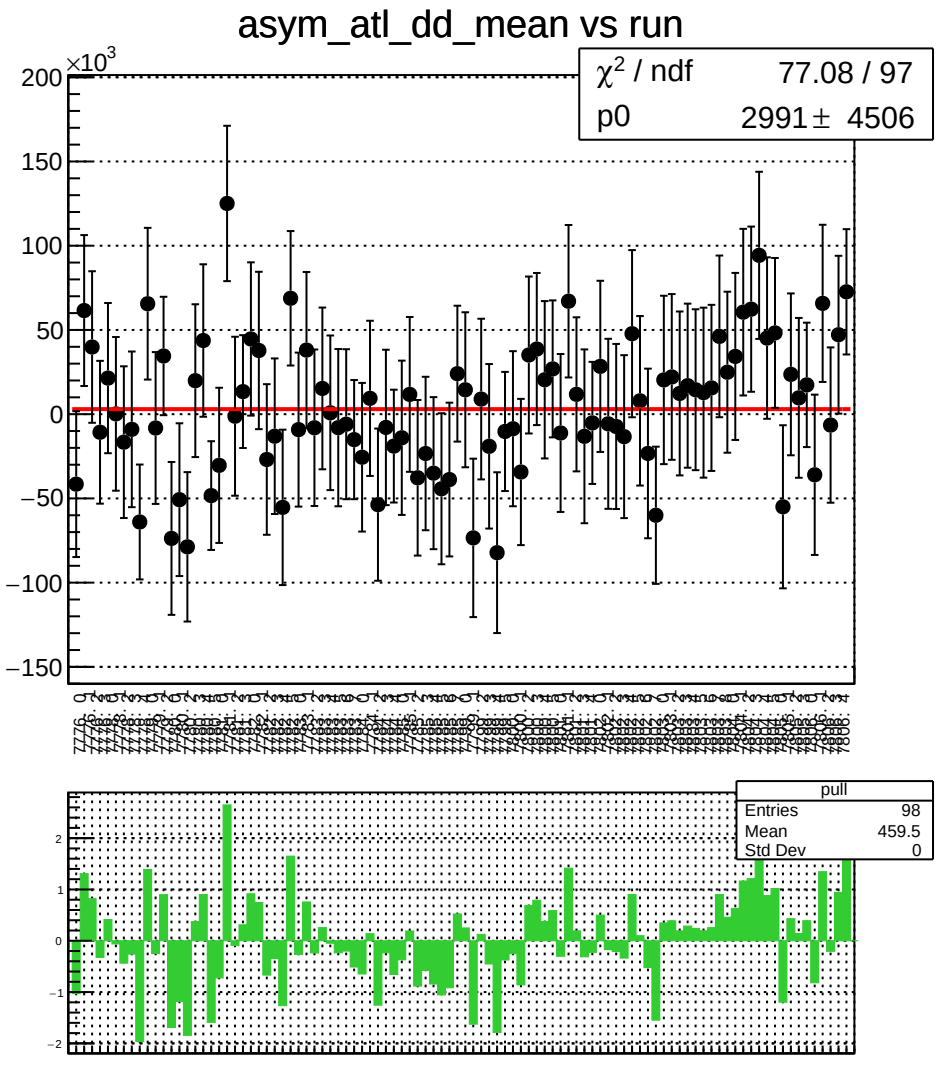

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 80.96 / 97
p0 −654.4 ± 1672
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 518.3
Std Dev 0
2
1
0
−1
−2

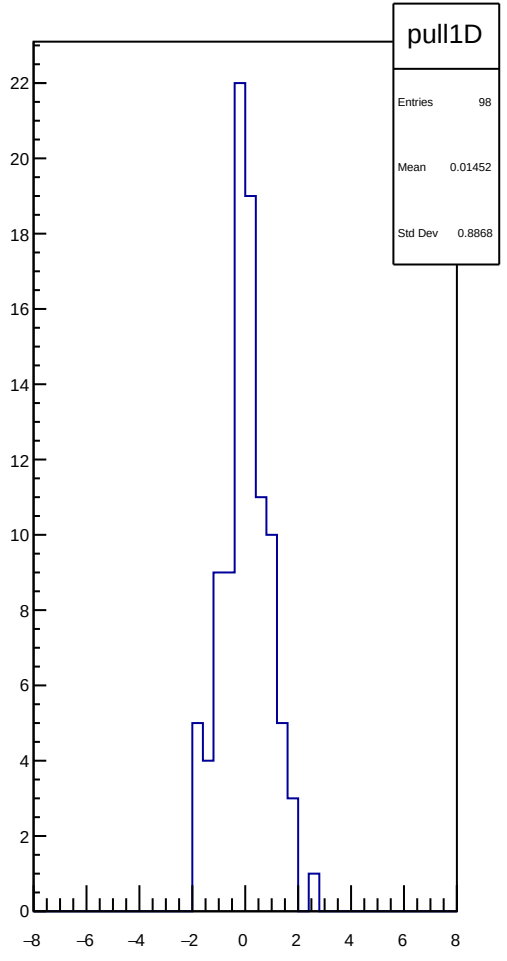

pull1D
Entries 98
Mean 0.008625
Std Dev 0.9089
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

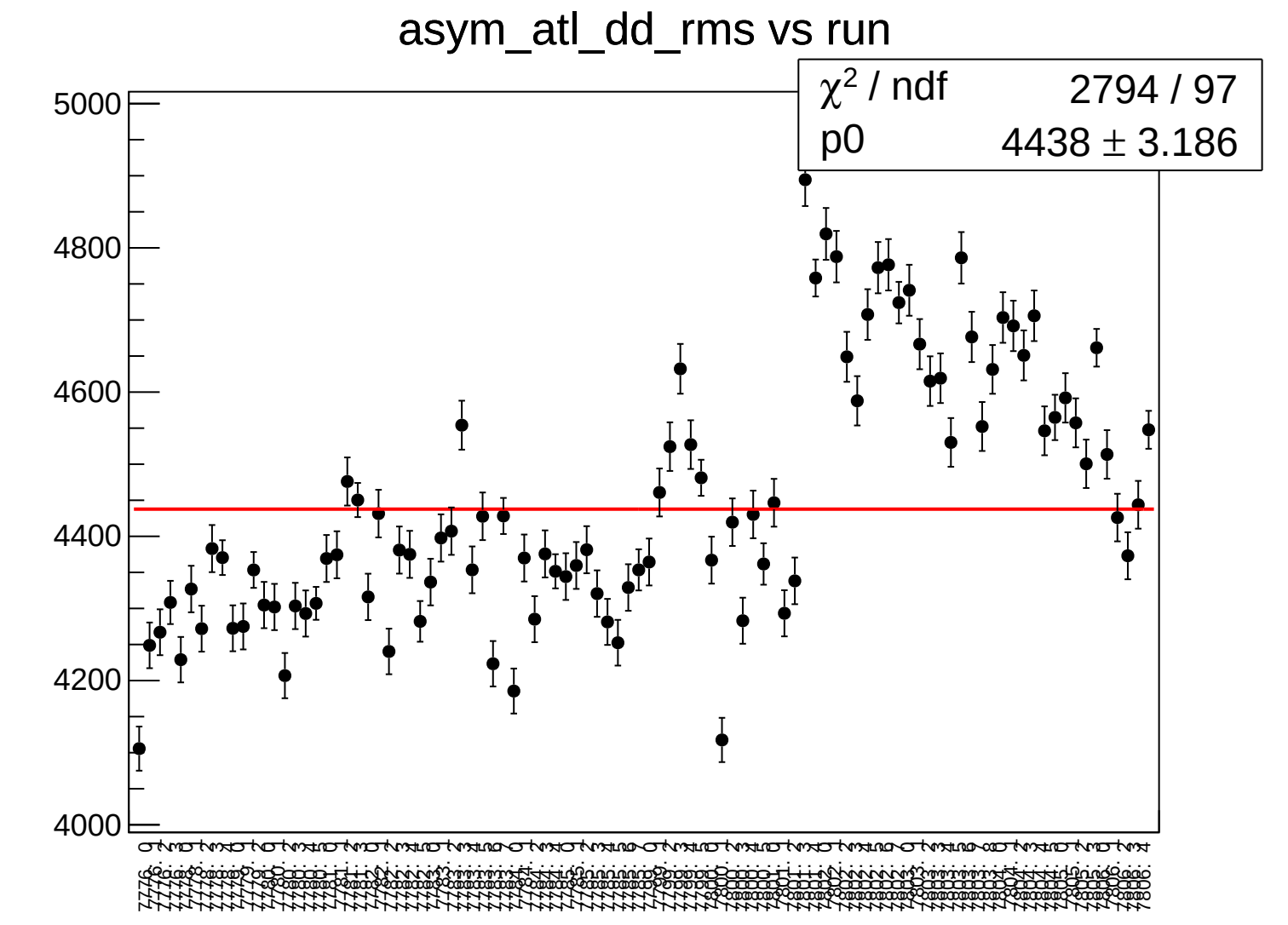

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 234.9 / 97
p0 1648 ± 1.182
1740
1720
1700
1680
1660
1640
1620
1600

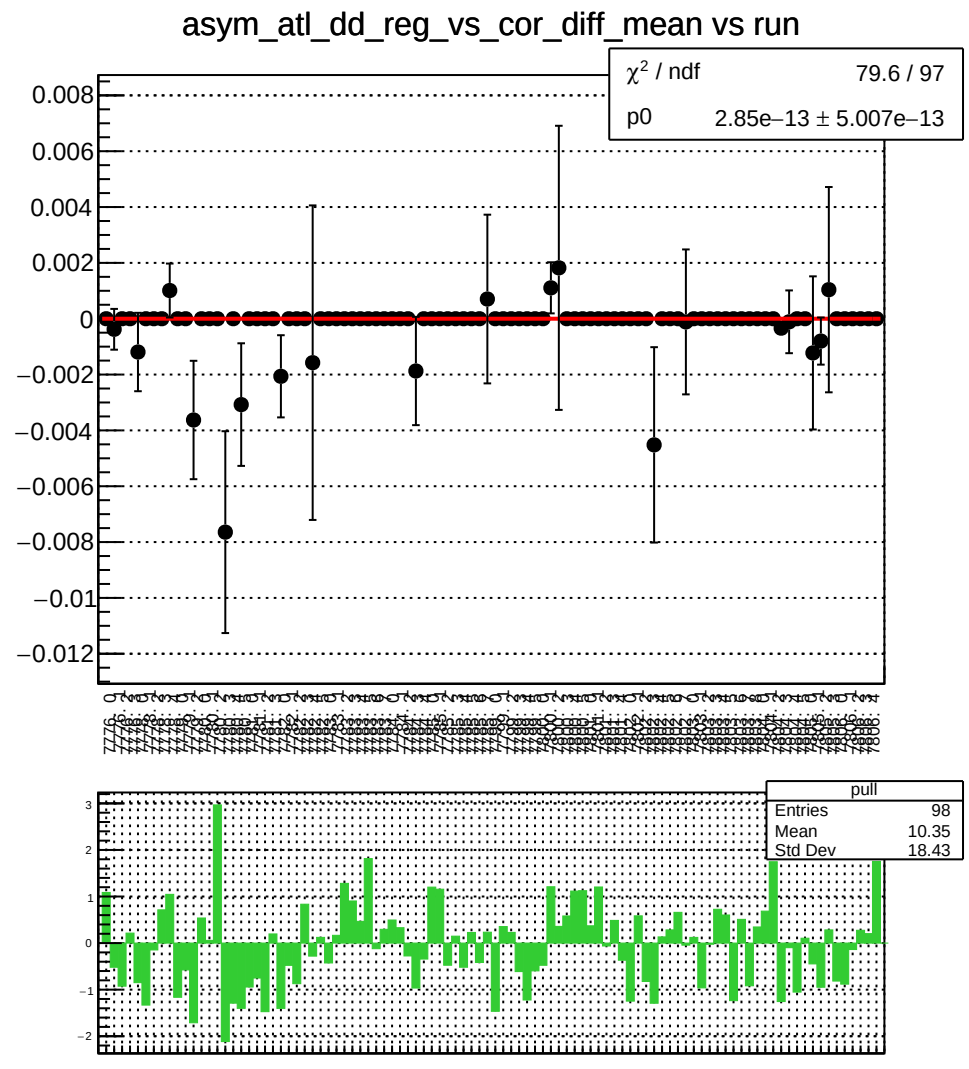

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.12 / 97
p0 −3684 ± 4266
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 445.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.0116
Std Dev 0.9154
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

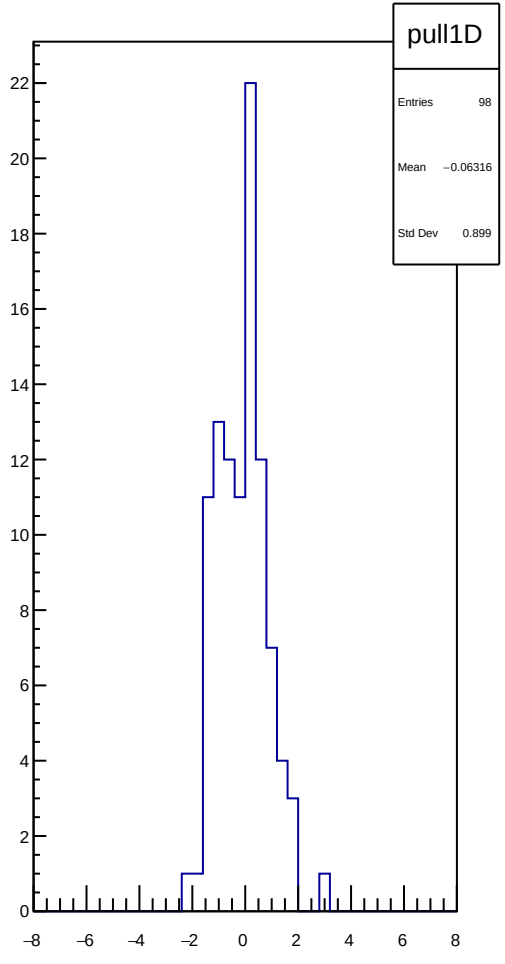

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 4723 / 97
p0 4199 ± 3.016
4800
4600
4400
4200
4000
3800

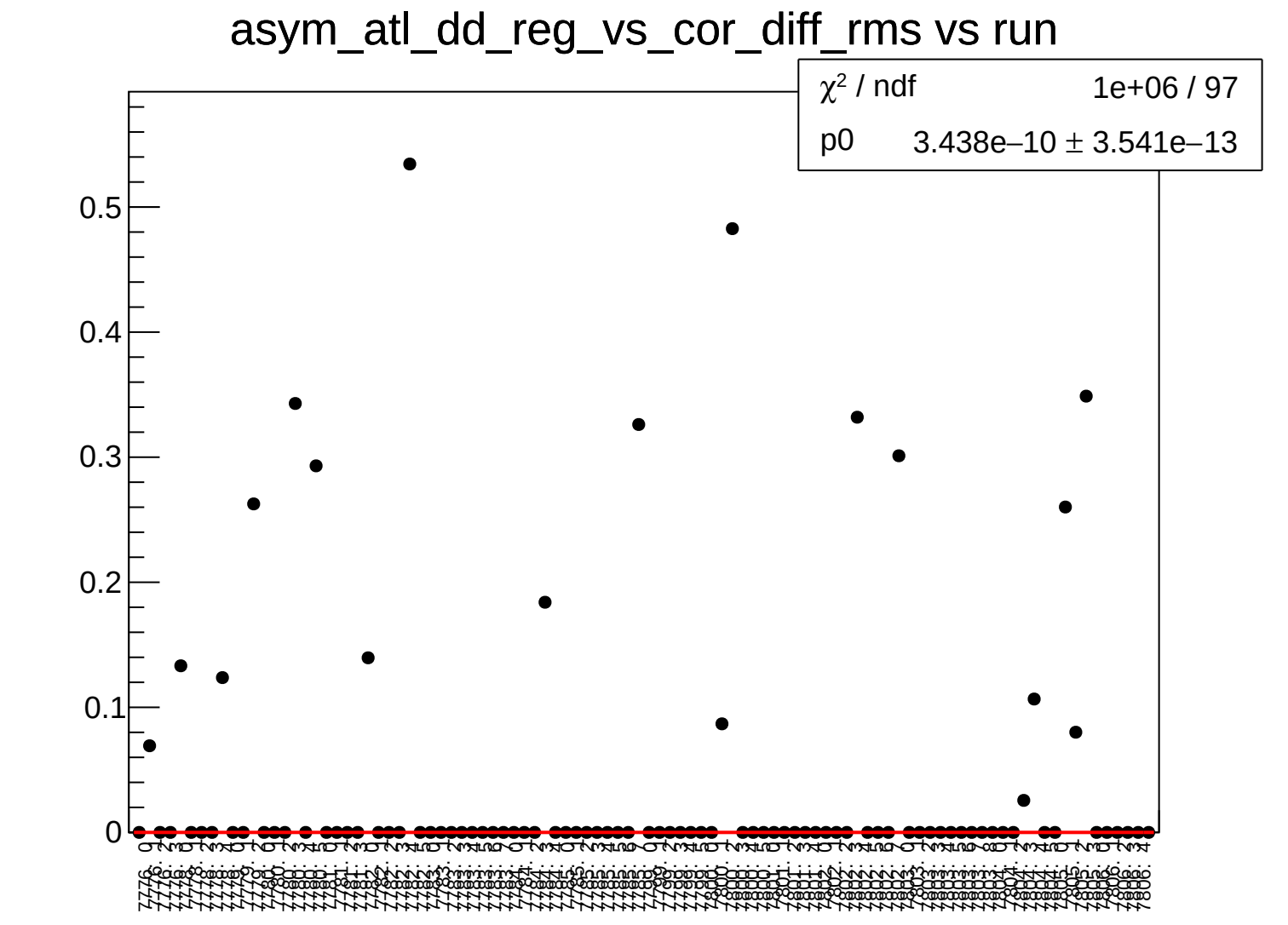

asym_atl_dd_mean vs run
χ² / ndf 77.08 / 97
p0 2991 ± 4506
×10³
pull
Entries 98
Mean 459.5
Std Dev 0

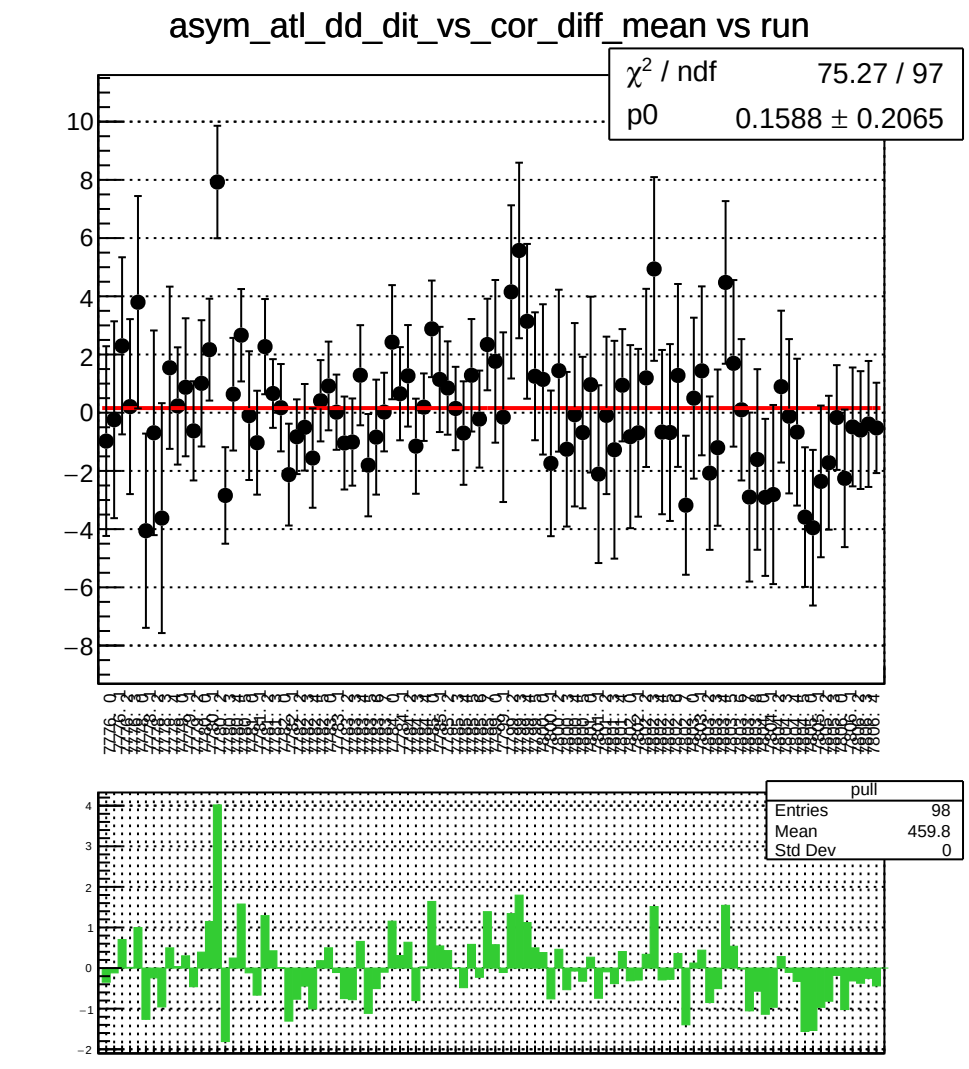

pull1D
Entries 98
Mean 0.01452
Std Dev 0.8868

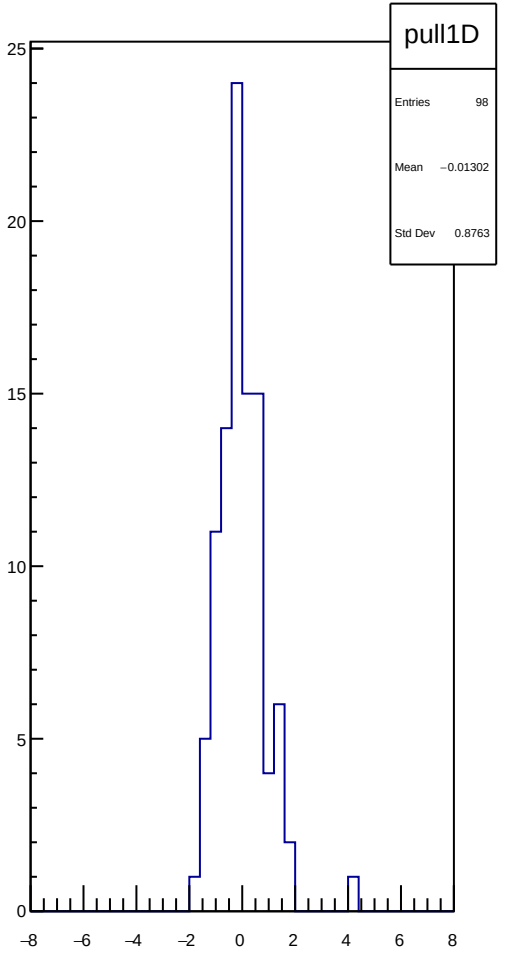

asym_atl_dd_rms vs run
χ^2 / ndf 2794 / 97
p0 4438 ± 3.186
5000
4800
4600
4400
4200
4000

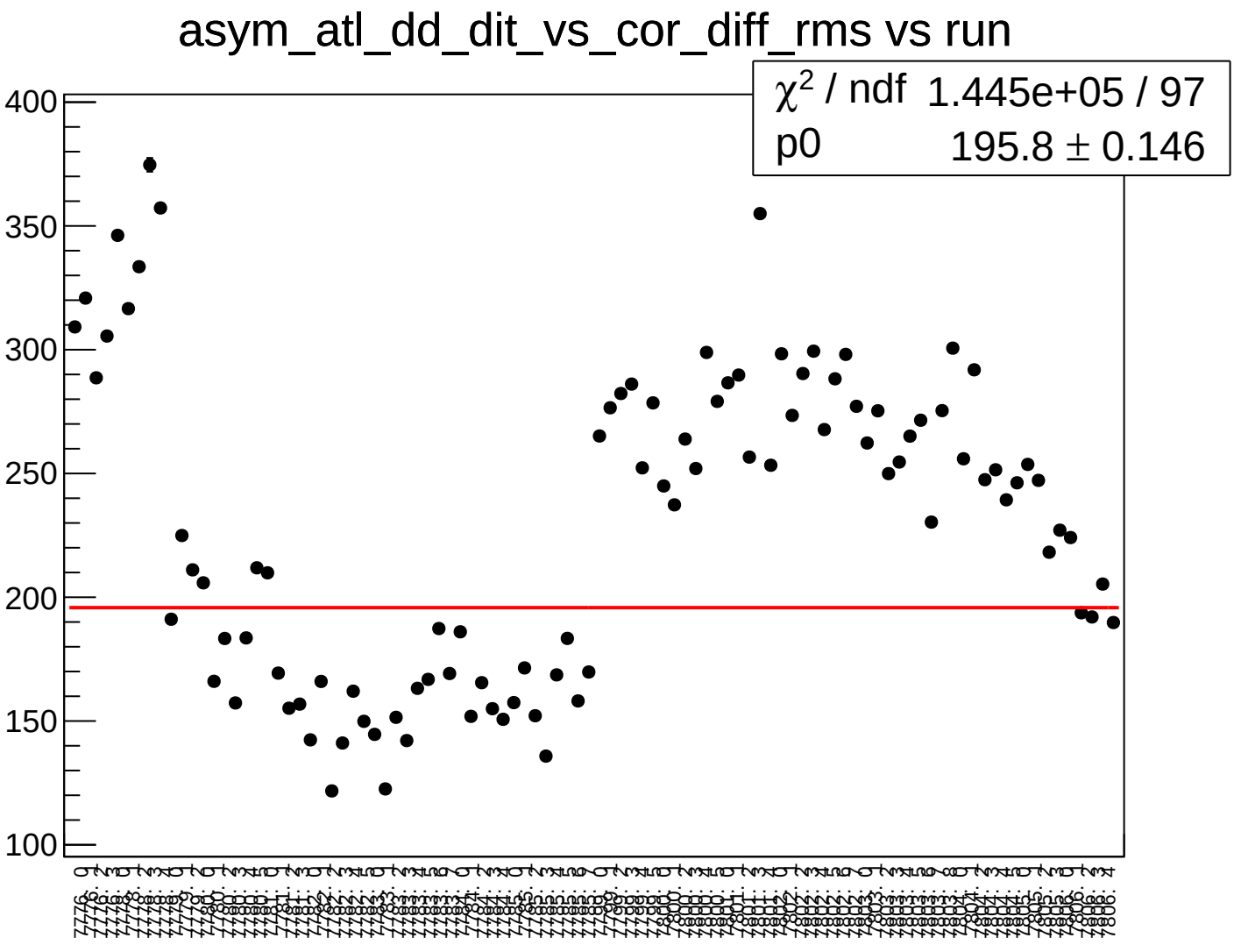

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.6 / 97
p0 2.85e−13 ± 5.007e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
pull
Entries 98
Mean 10.35
Std Dev 18.43
3
2
1
0
−1
−2

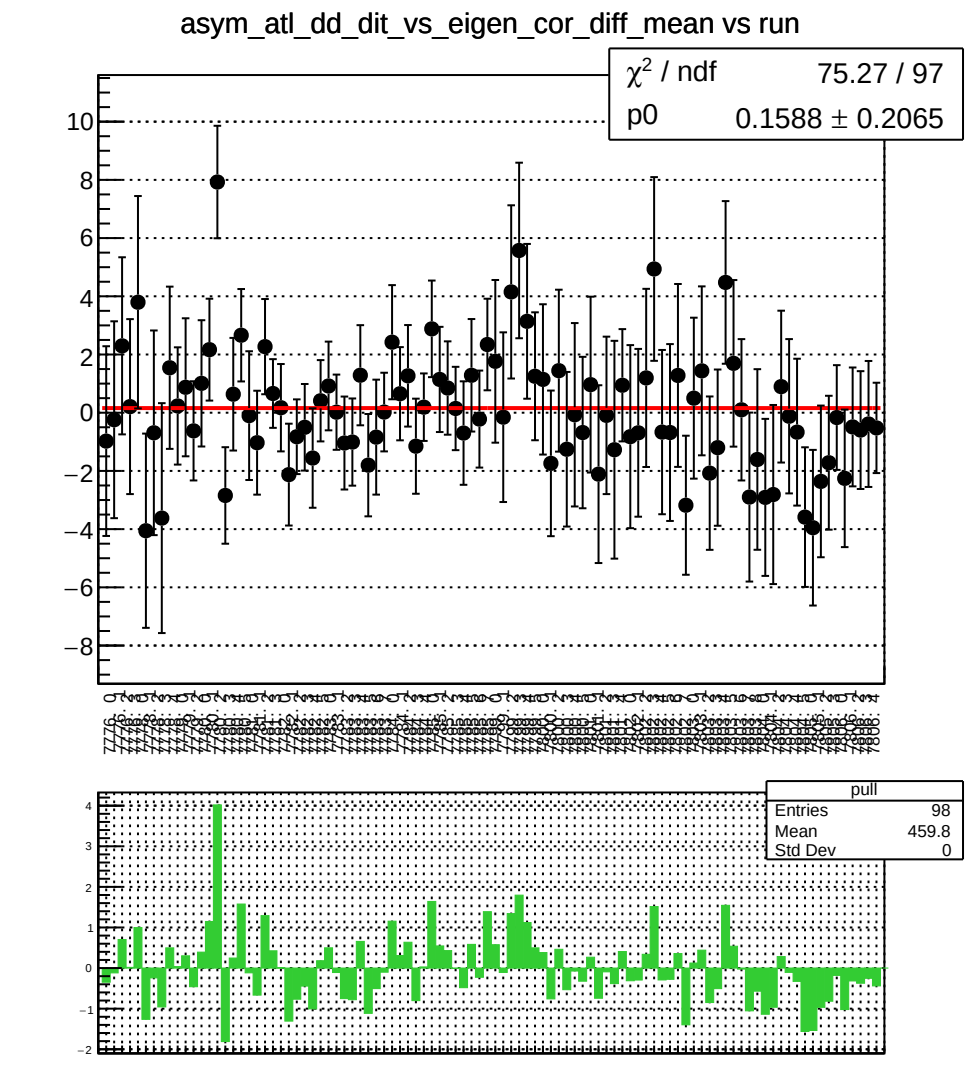

pull1D
Entries 98
Mean −0.06316
Std Dev 0.899
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

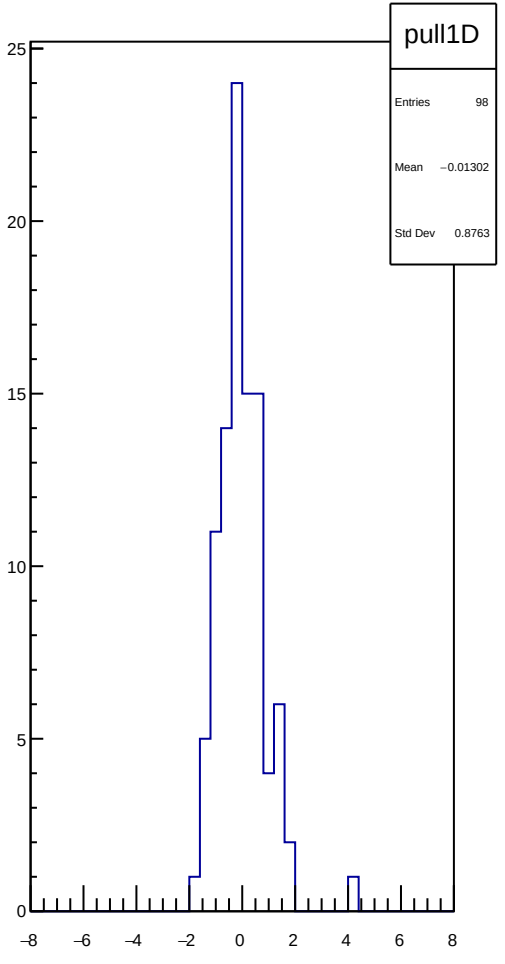

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1e+06 / 97
p0 3.438e−10 ± 3.541e−13
0.5
0.4
0.3
0.2
0.1
0

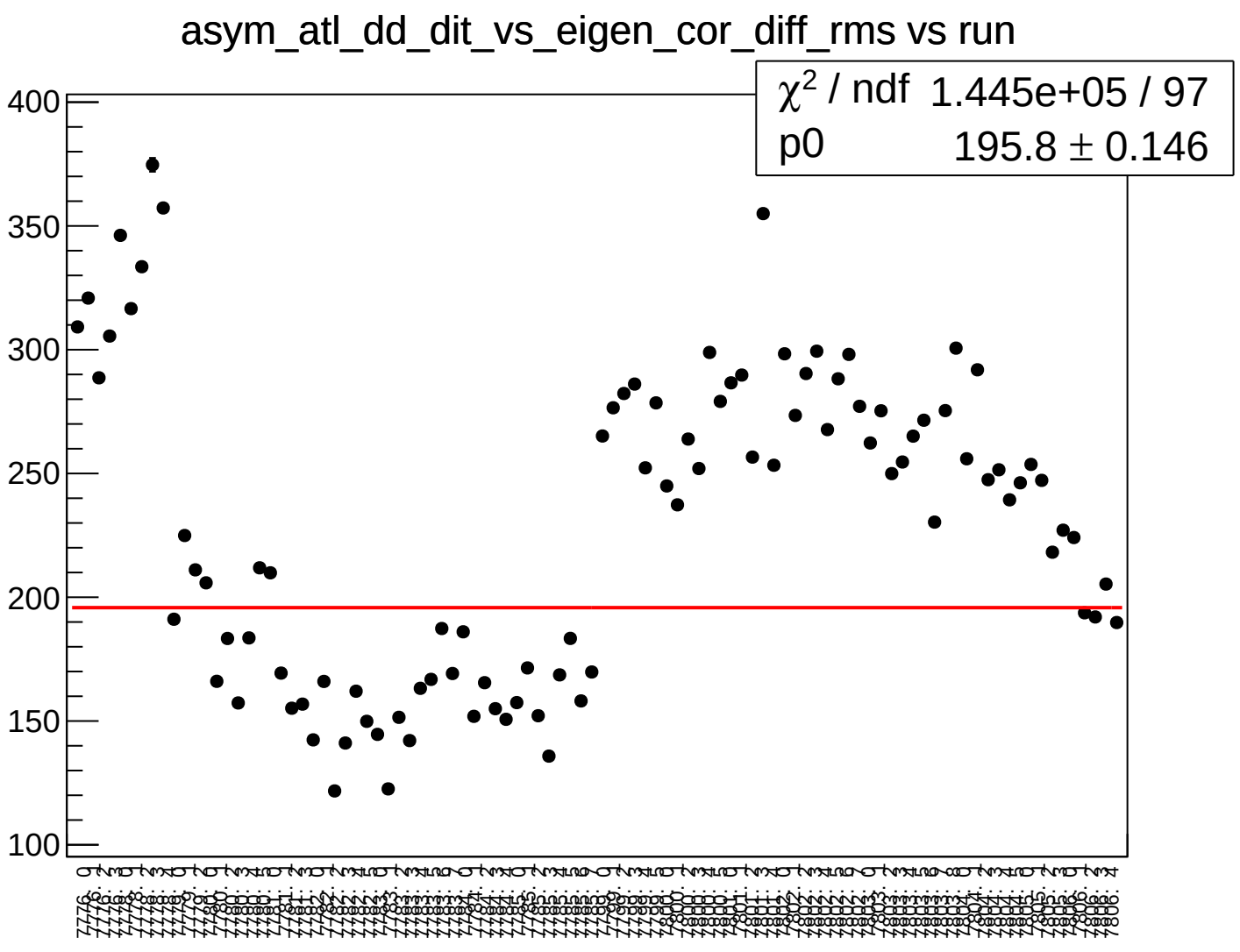

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.27 / 97
p0 0.1588 ± 0.2065
pull
Entries 98
Mean 459.8
Std Dev 0

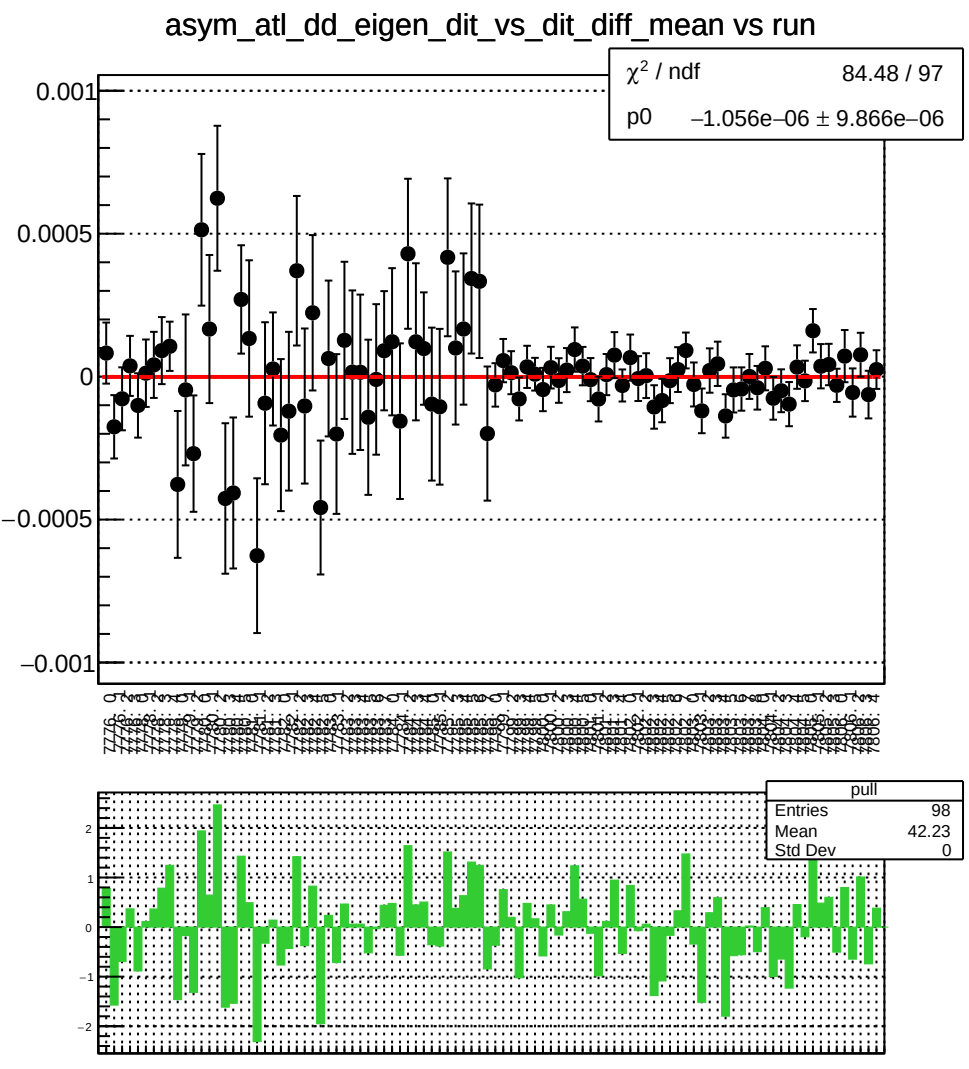

pull1D
Entries 98
Mean −0.01302
Std Dev 0.8763

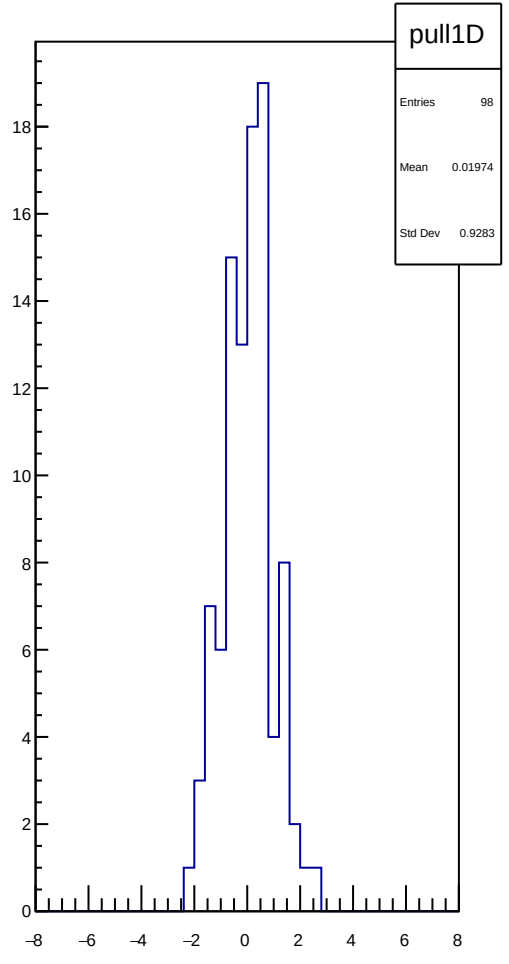

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.445e+05 / 97
p0 195.8 ± 0.146
400
350
300
250
200
150
100

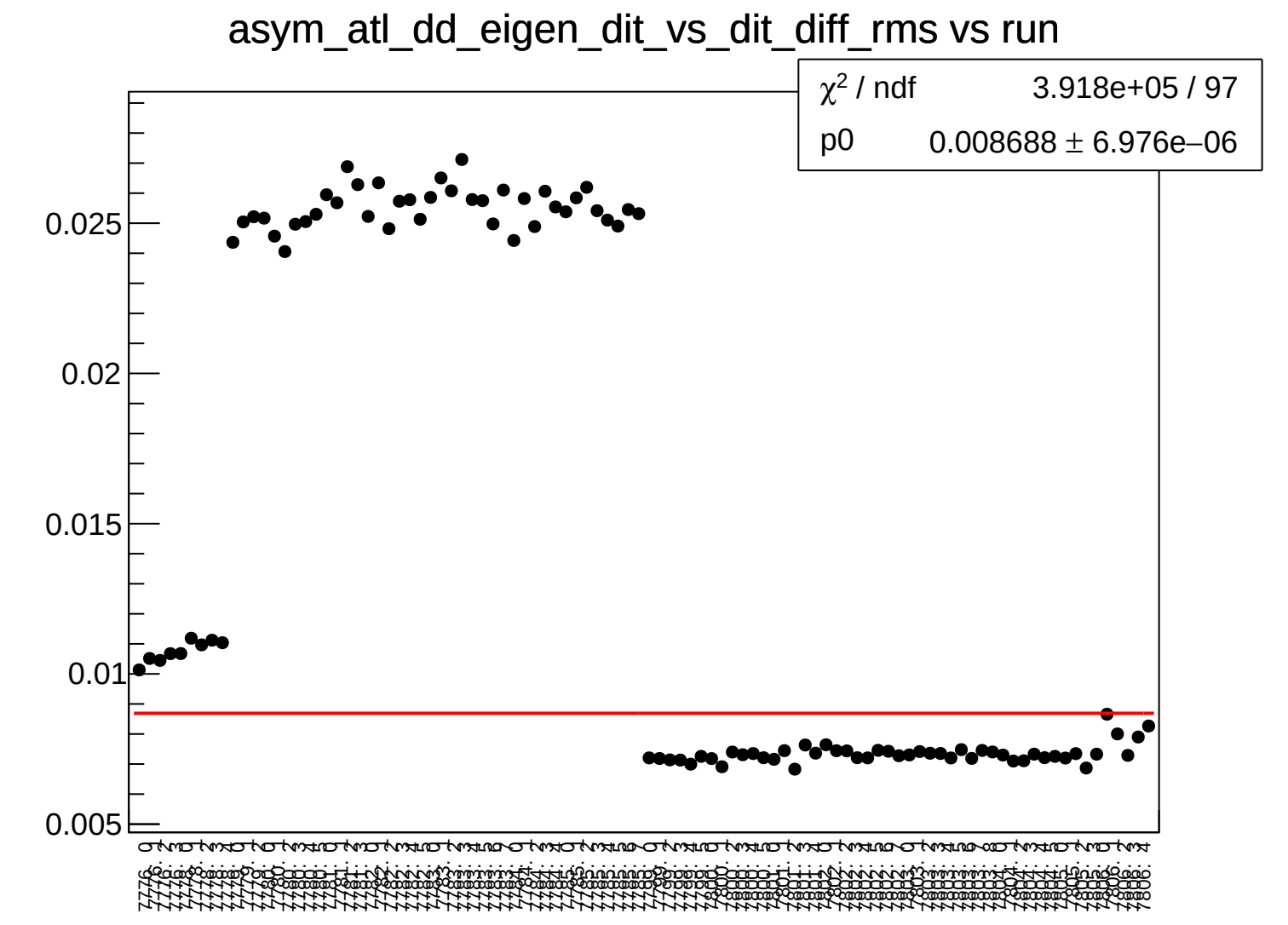

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.27 / 97
p0 0.1588 ± 0.2065
pull
Entries 98
Mean 459.8
Std Dev 0

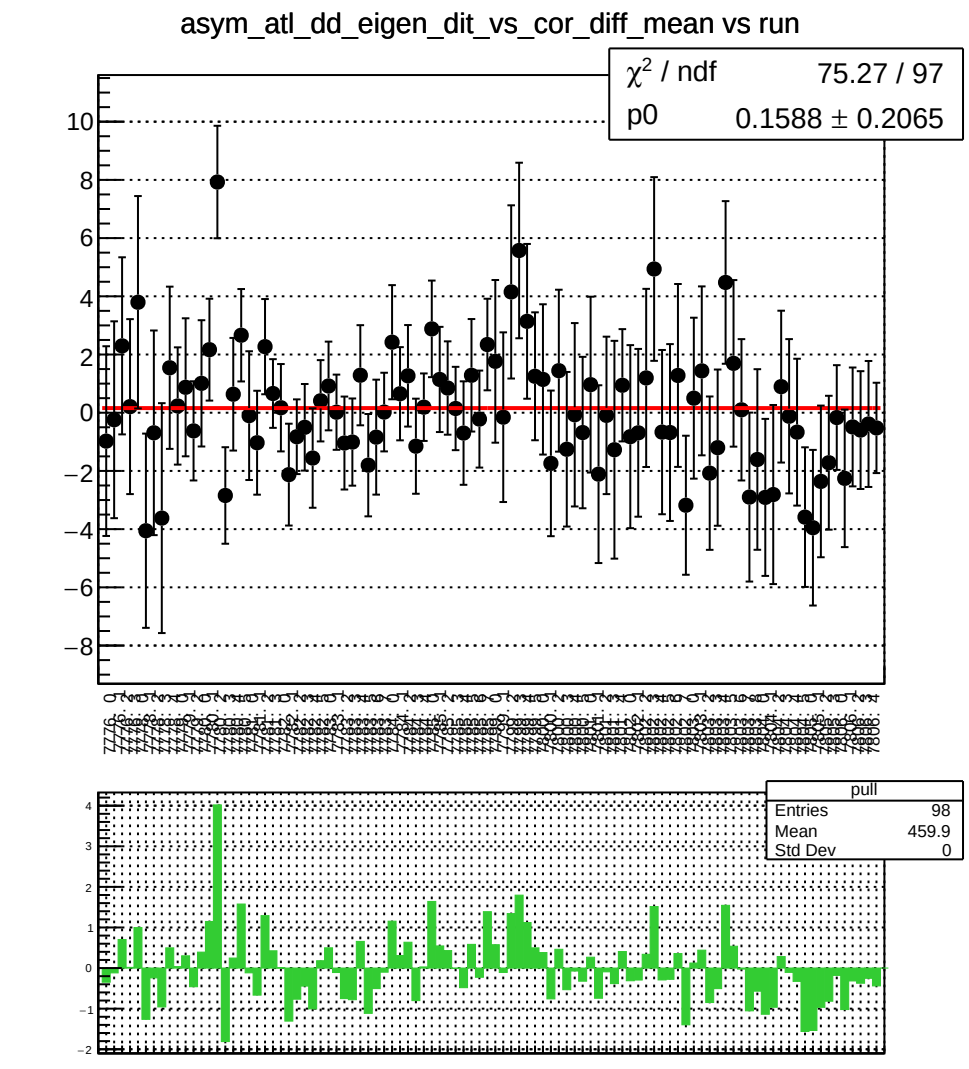

pull1D
Entries 98
Mean −0.01302
Std Dev 0.8763

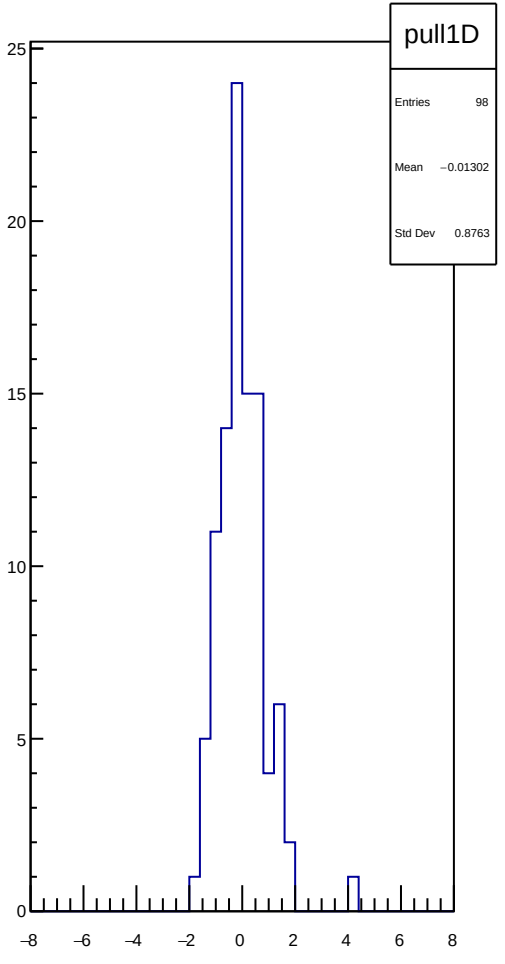

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.445e+05 / 97
p0 195.8 ± 0.146
400
350
300
250
200
150
100

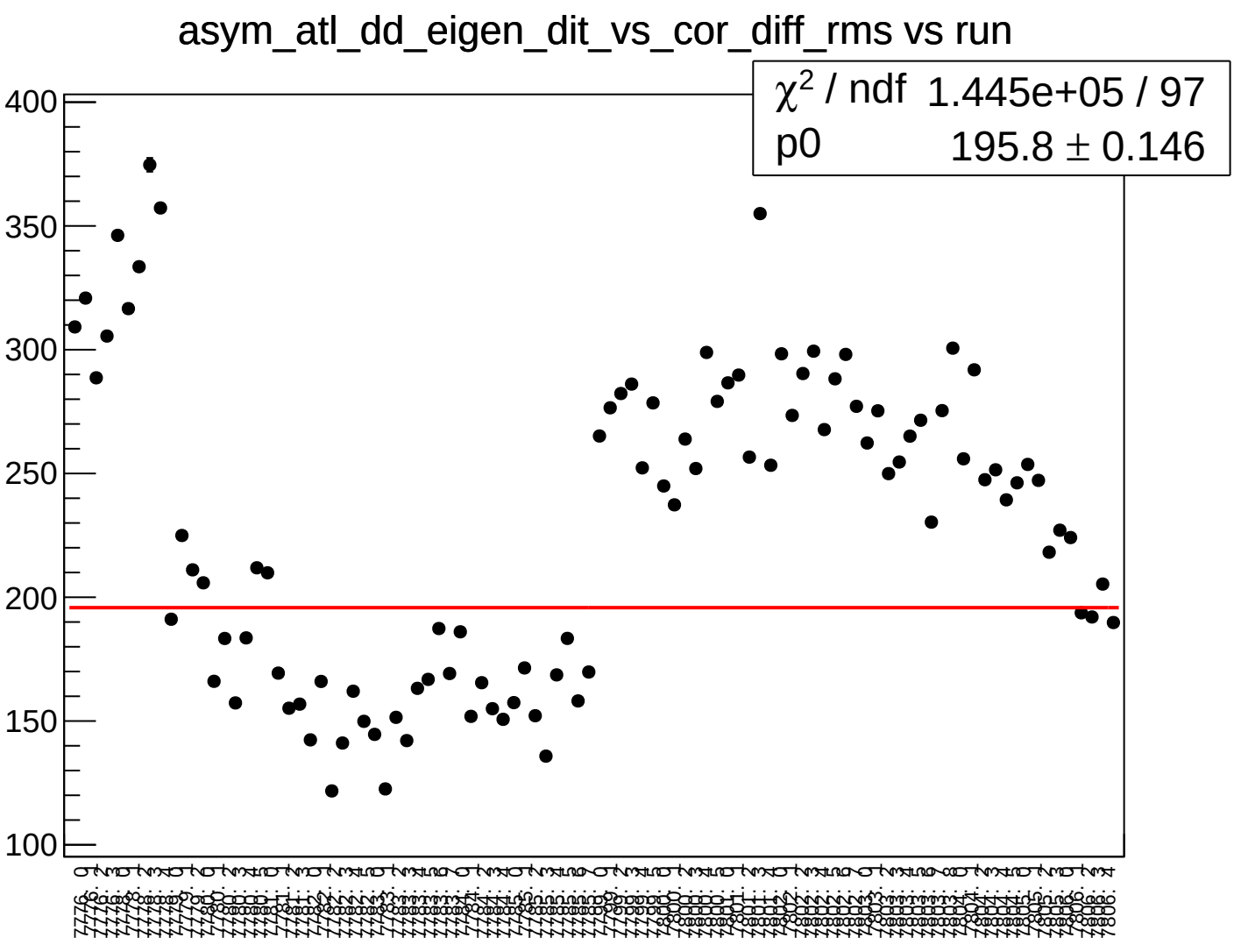

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.48 / 97
p0 −1.056e−06 ± 9.866e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 98
Mean 42.23
Std Dev 0
2
1
0
−1
−2

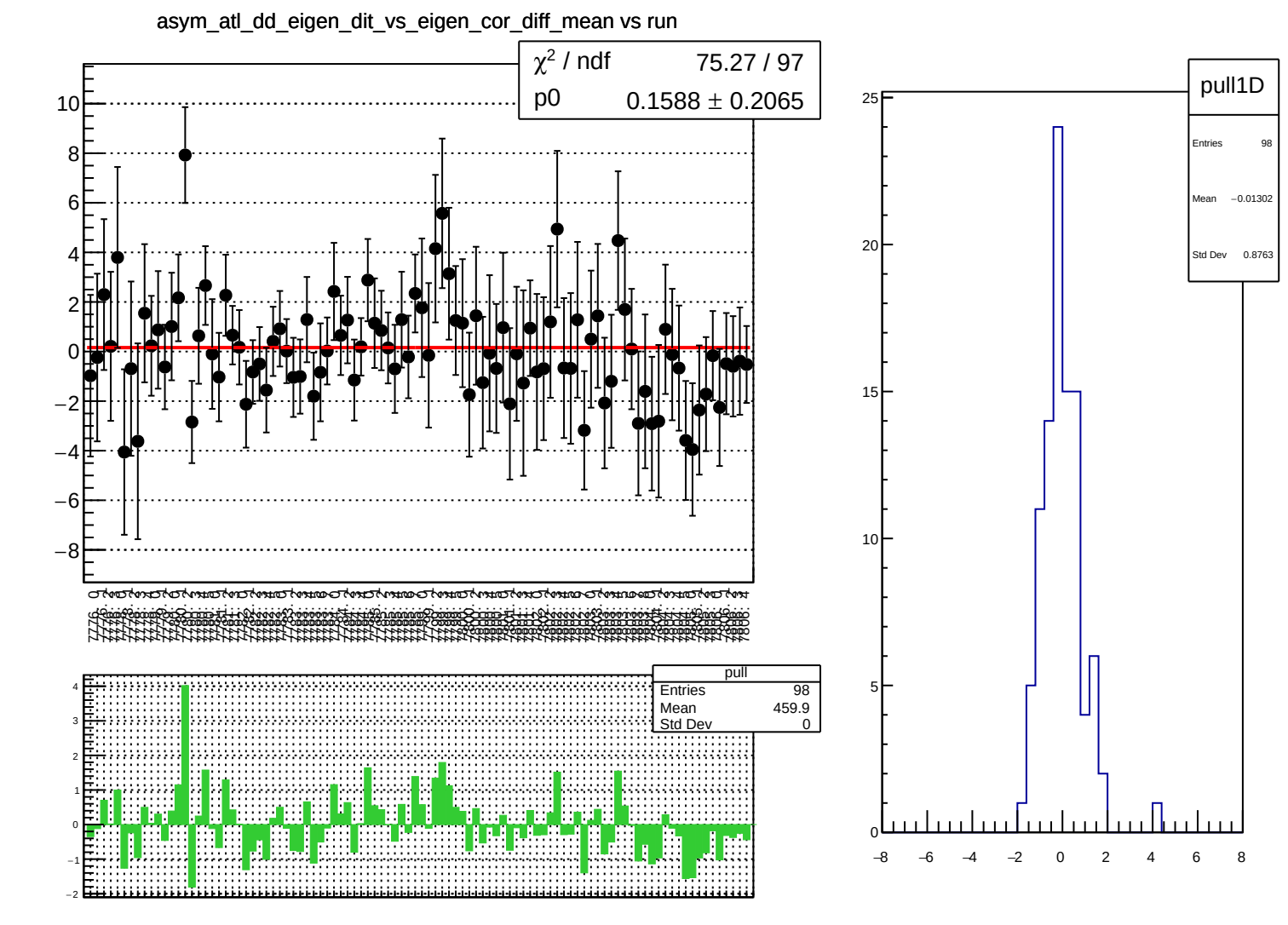

pull1D
Entries 98
Mean 0.01974
Std Dev 0.9283
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

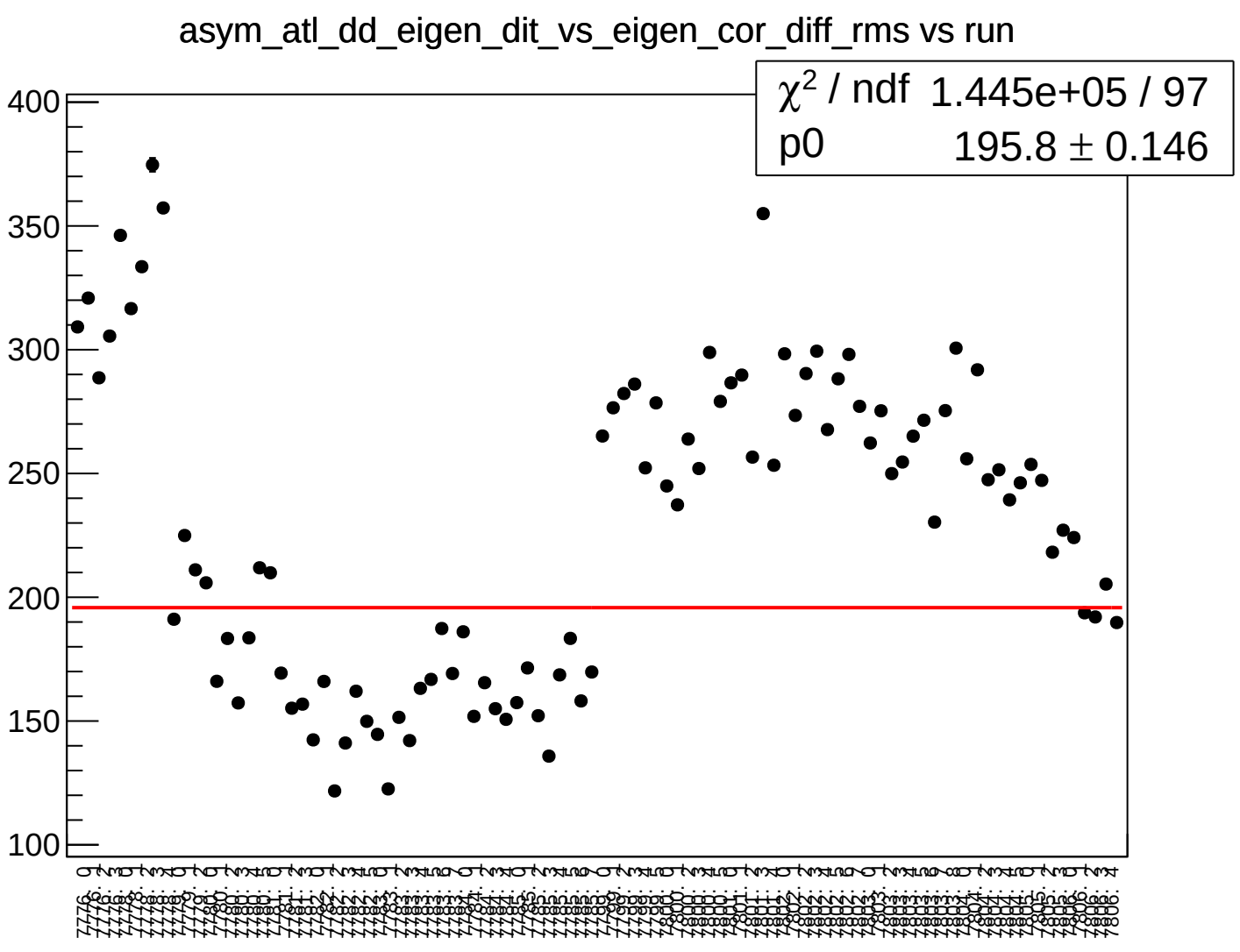

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.918e+05 / 97
p0 0.008688 ± 6.976e−06
0.025
0.02
0.015
0.01
0.005

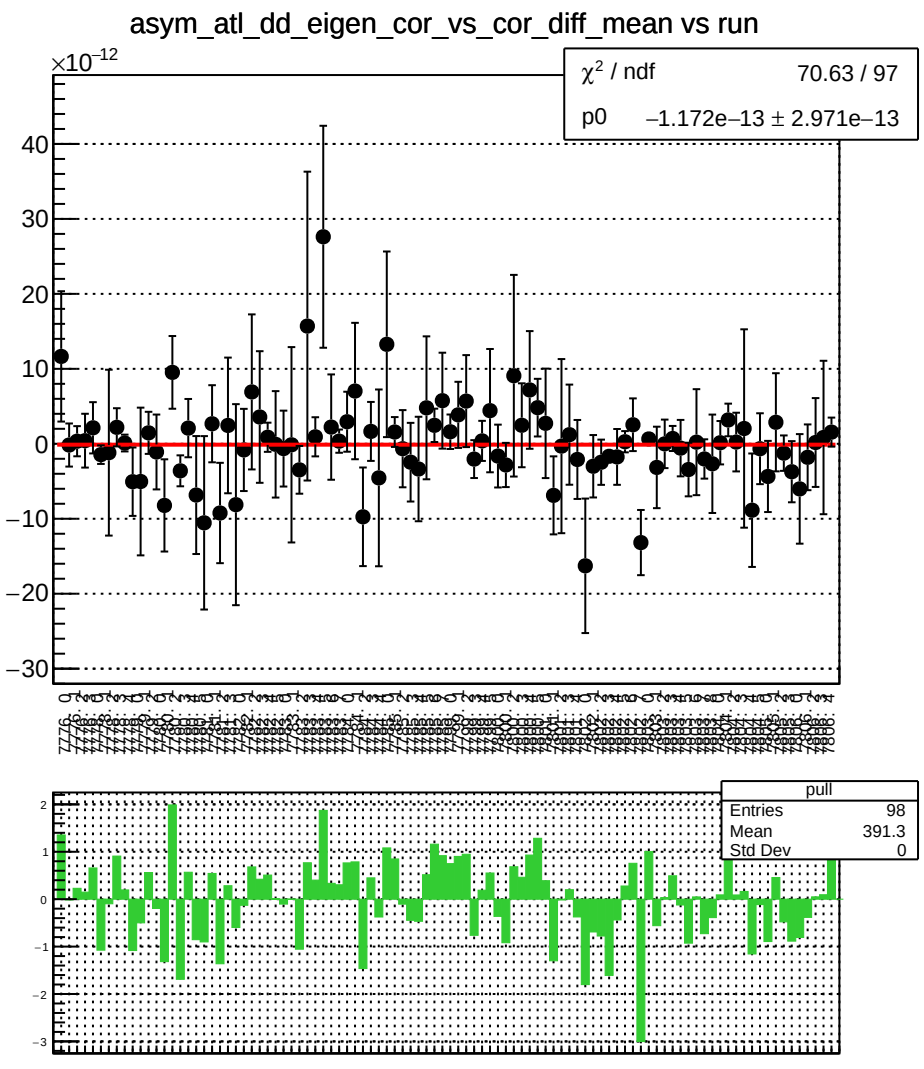

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.27 / 97
p0 0.1588 ± 0.2065
pull
Entries 98
Mean 459.9
Std Dev 0

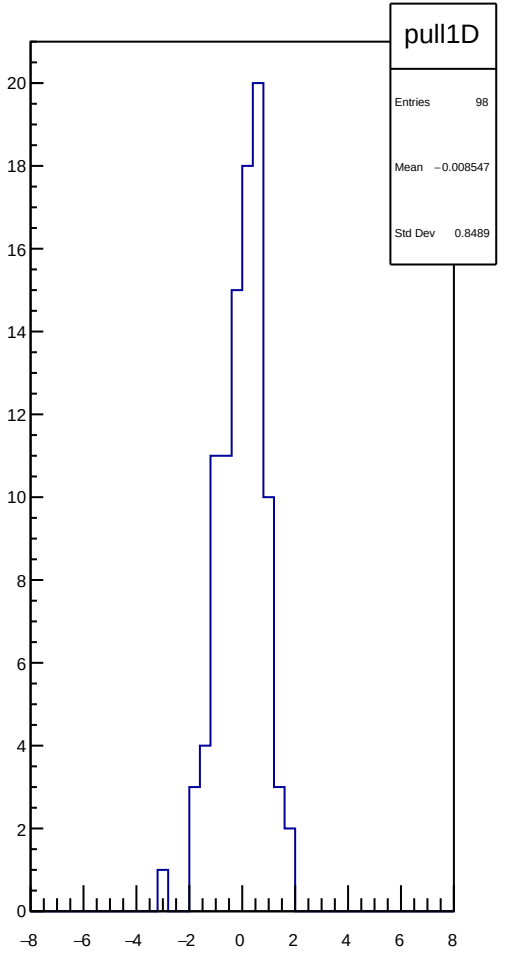

pull1D
Entries 98
Mean −0.01302
Std Dev 0.8763

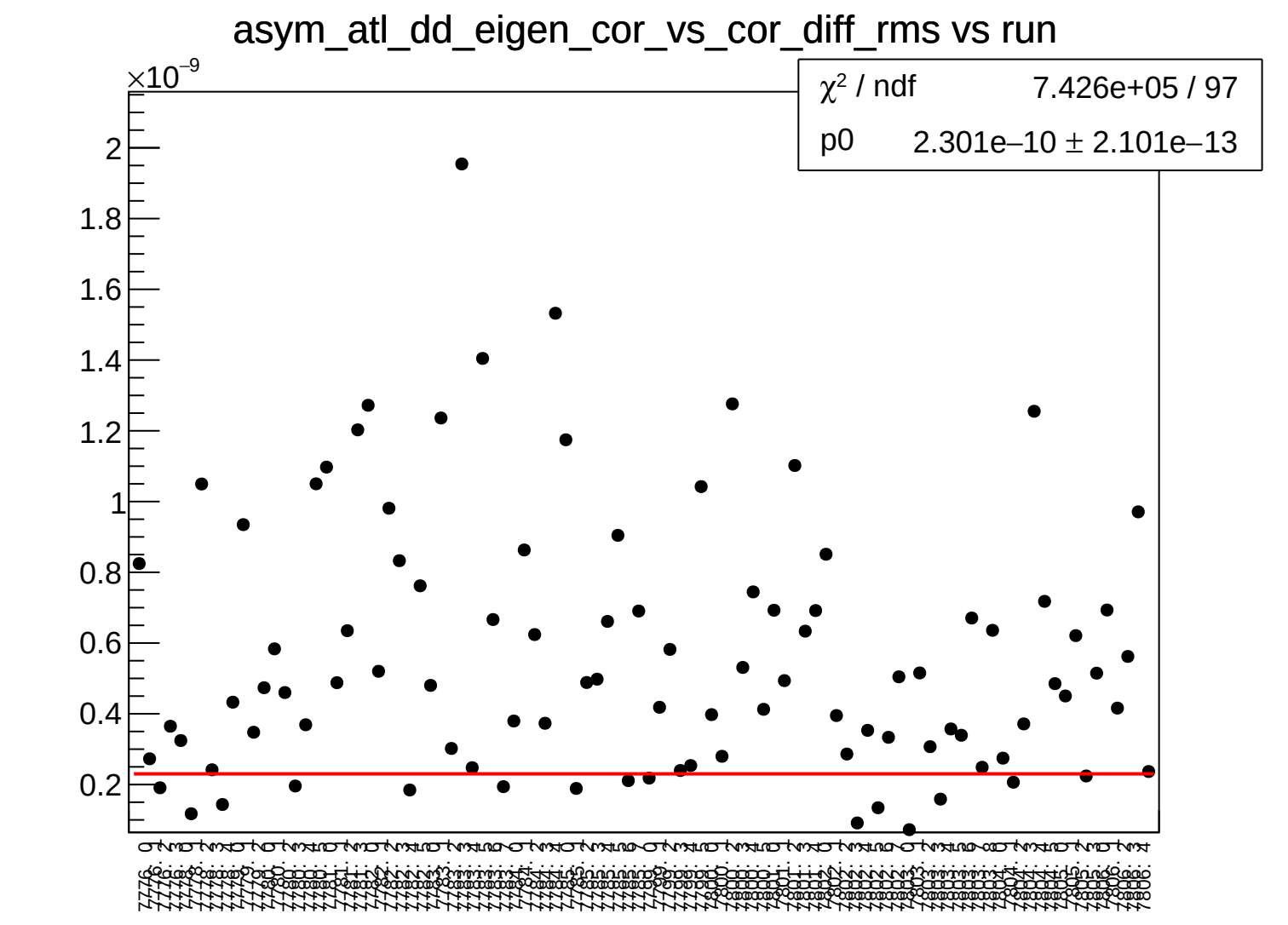

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.445e+05 / 97
p0 195.8 ± 0.146
400
350
300
250
200
150
100

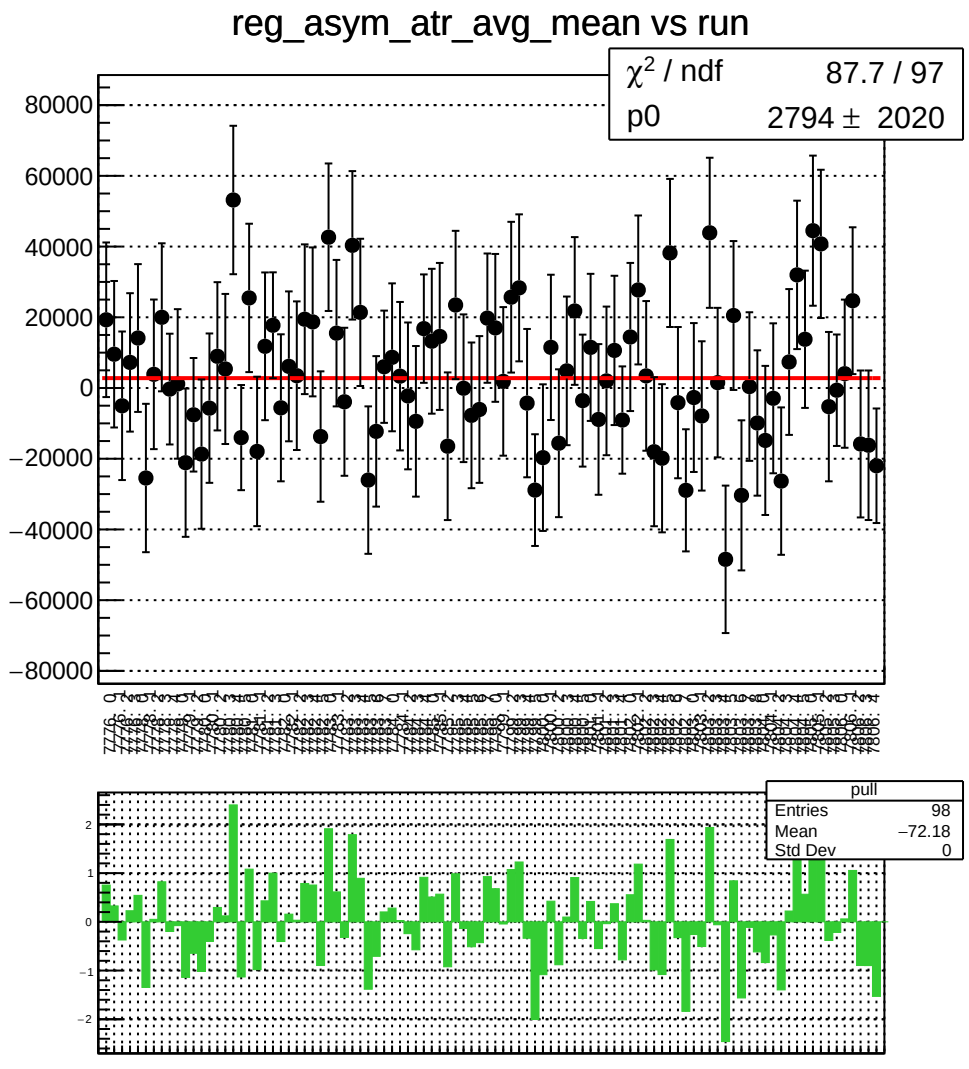

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.27 / 97
p0 0.1588 ± 0.2065
pull
Entries 98
Mean 459.9
Std Dev 0
pull1D
Entries 98
Mean −0.01302
Std Dev 0.8763

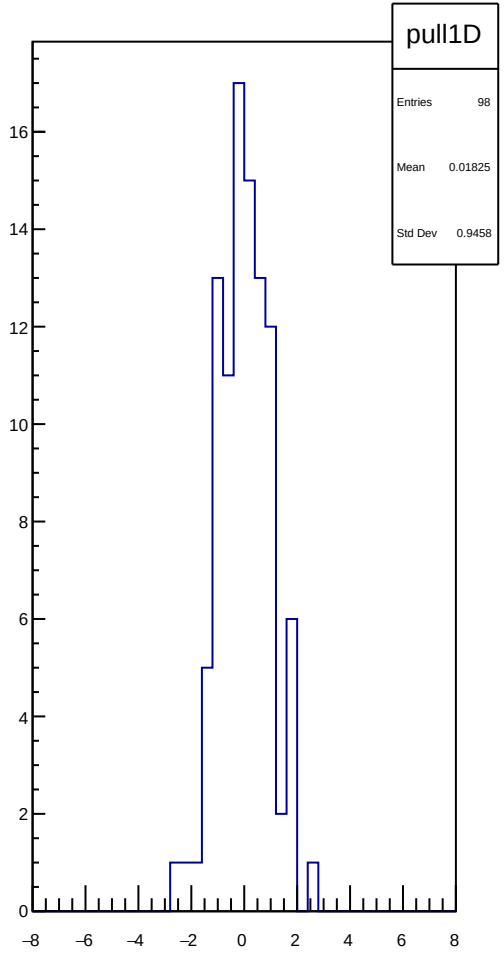

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.445e+05 / 97
p0 195.8 ± 0.146
400
350
300
250
200
150
100

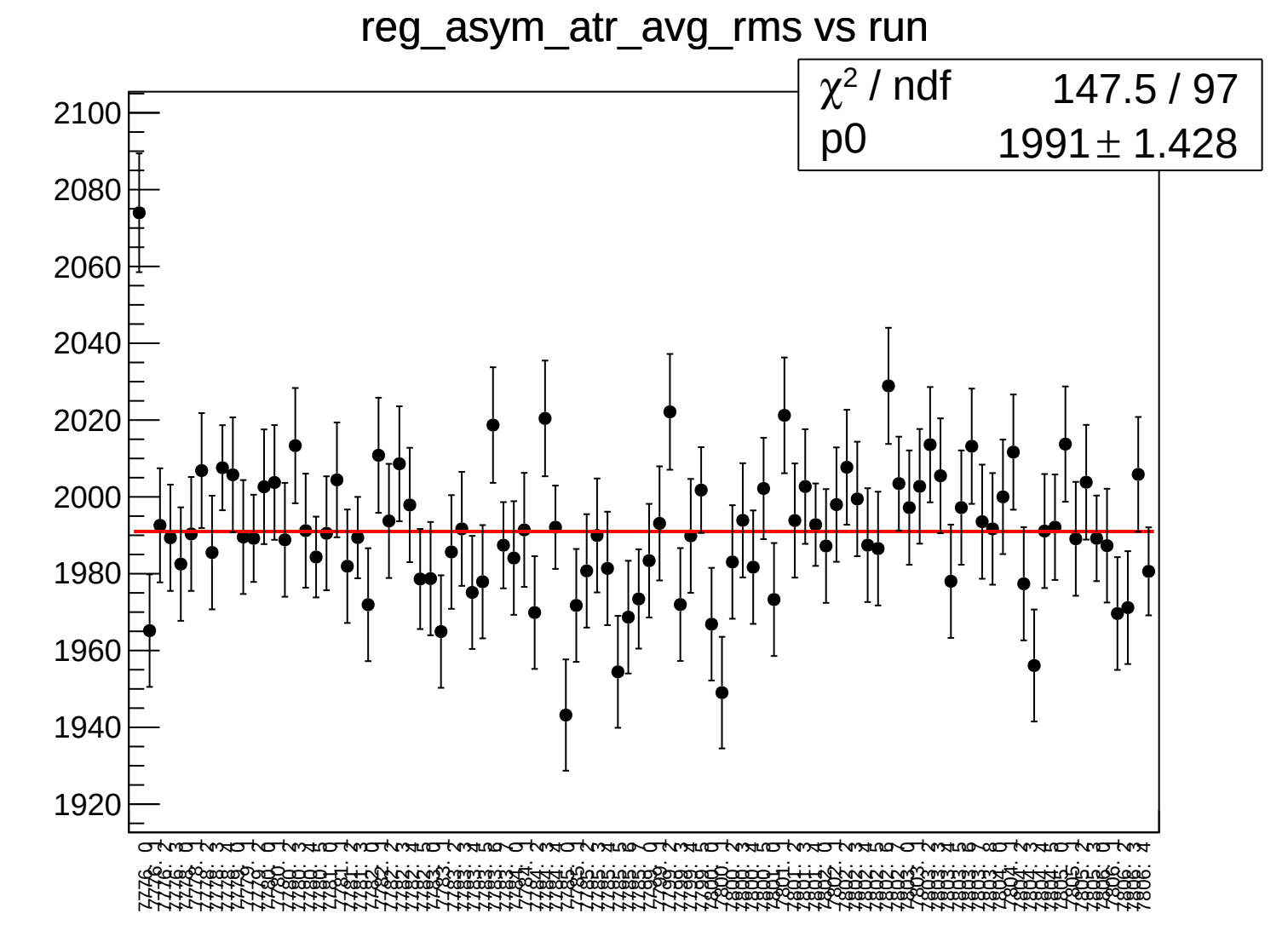

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.63 / 97
p0 −1.172e−13 ± 2.971e−13
pull
Entries 98
Mean 391.3
Std Dev 0

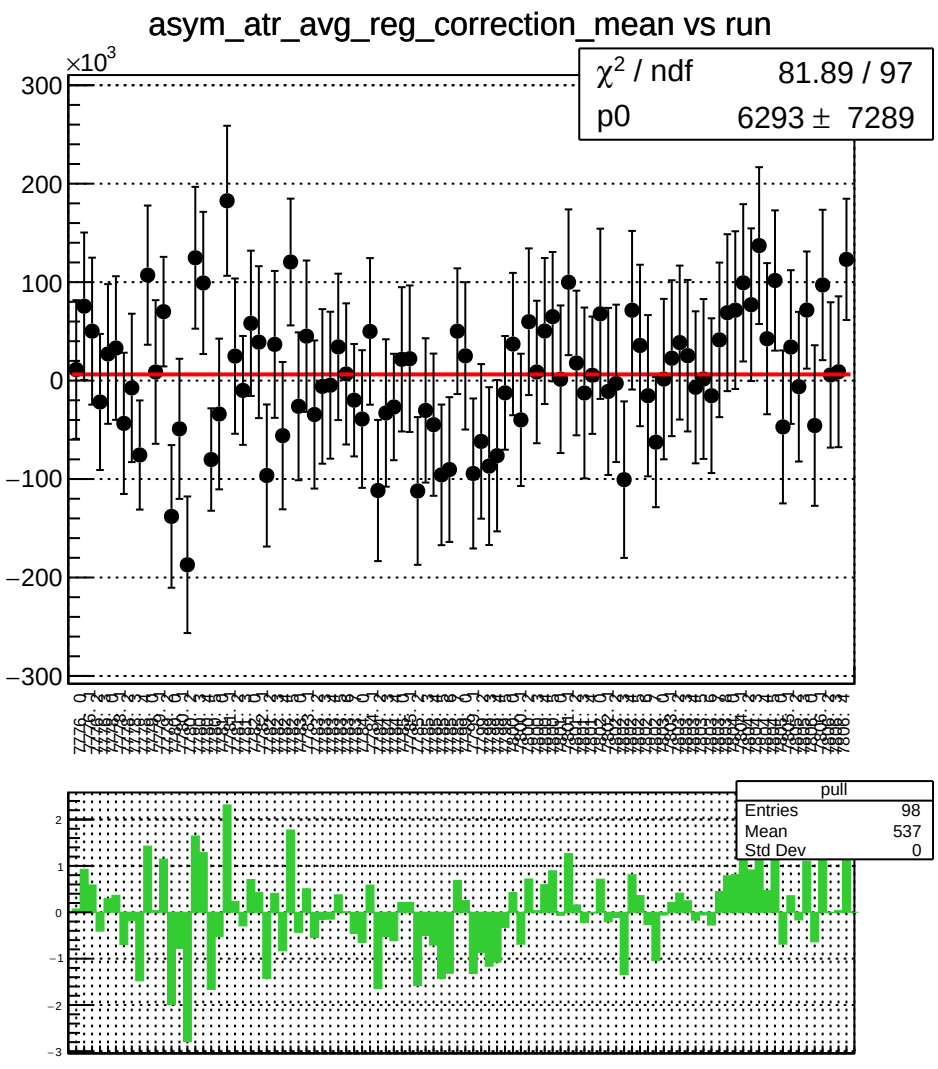

pull1D
Entries 98
Mean −0.008547
Std Dev 0.8489

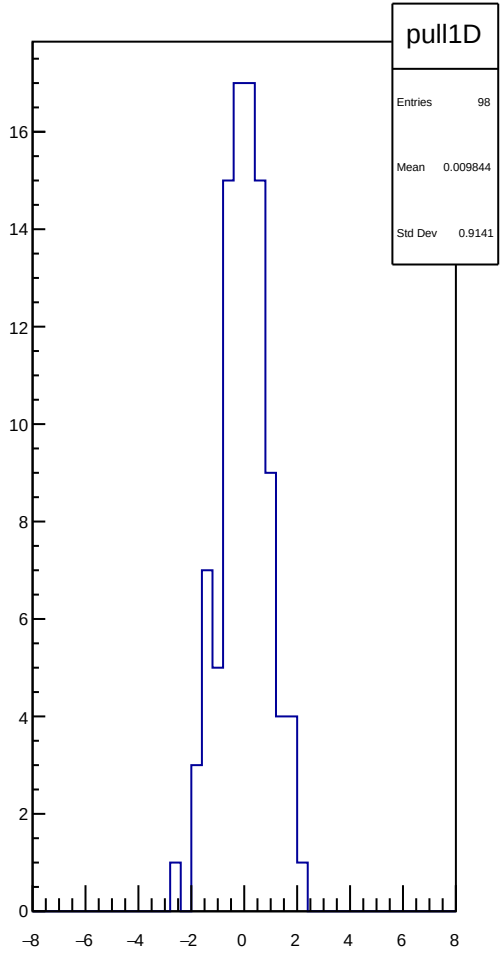

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.426e+05 / 97
p0 2.301e−10 ± 2.101e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

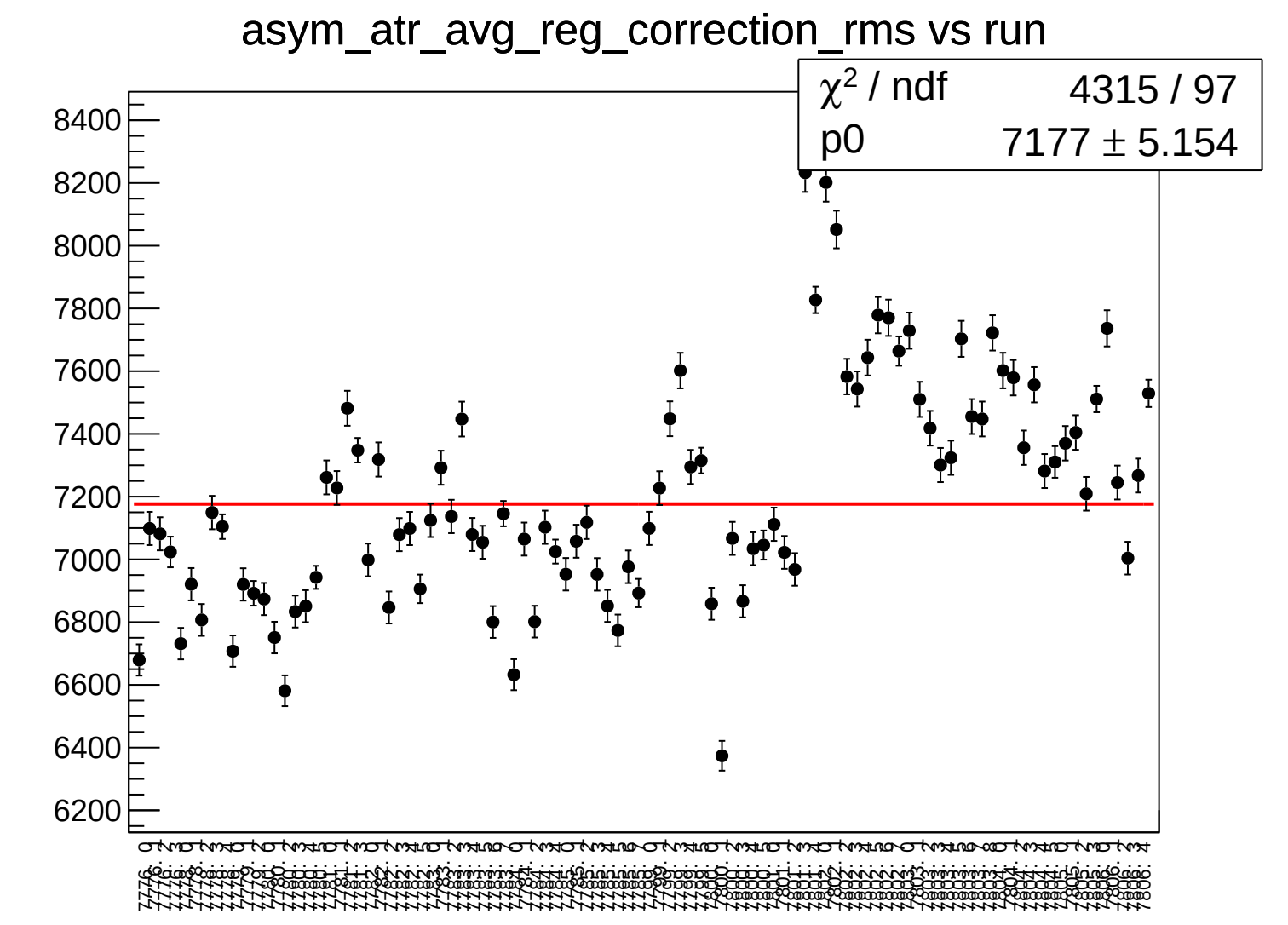

reg_asym_atr_avg_mean vs run
χ² / ndf 87.7 / 97
p0 2794 ± 2020
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −72.18
Std Dev 0
2
1
0
−1
−2

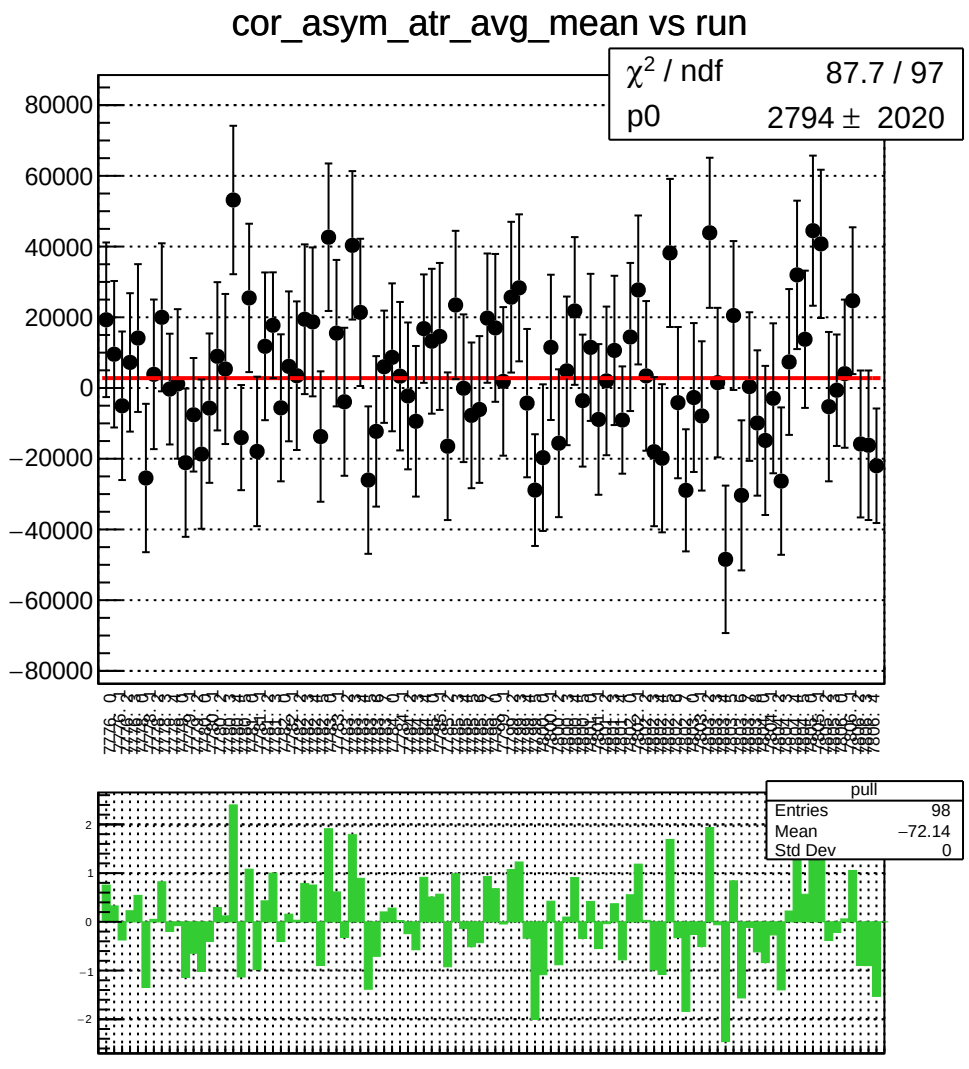

pull1D
Entries 98
Mean 0.01825
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

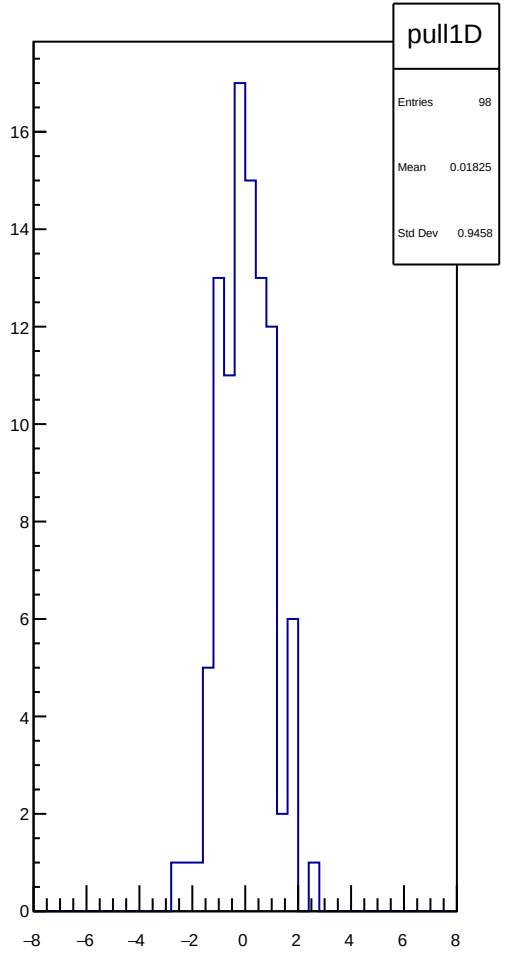

reg_asym_atr_avg_rms vs run
χ^2 / ndf 147.5 / 97
p0 1991 ± 1.428
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

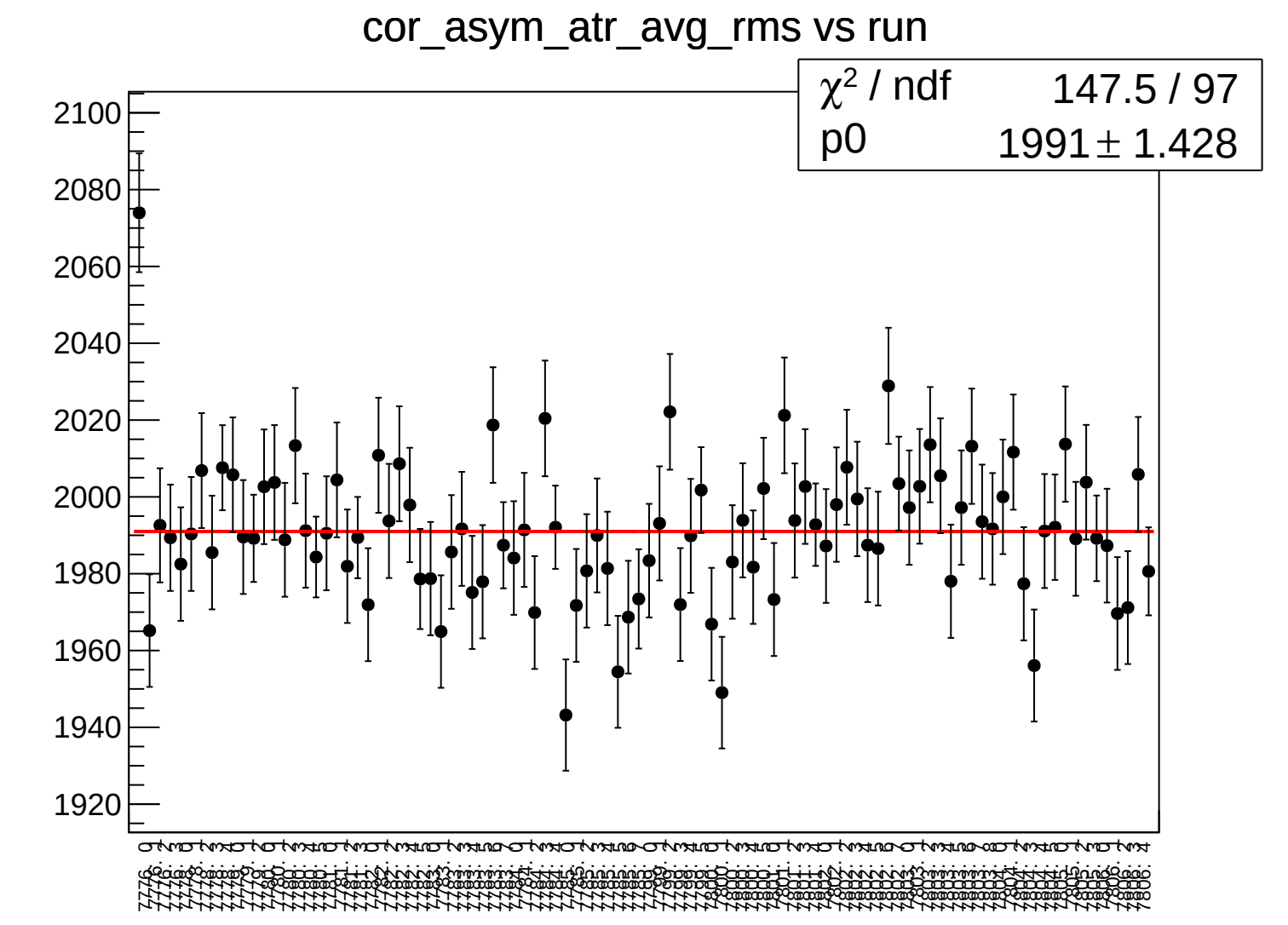

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.89 / 97
p0 6293 ± 7289
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 537
Std Dev 0
2
1
0
−1
−2
−3

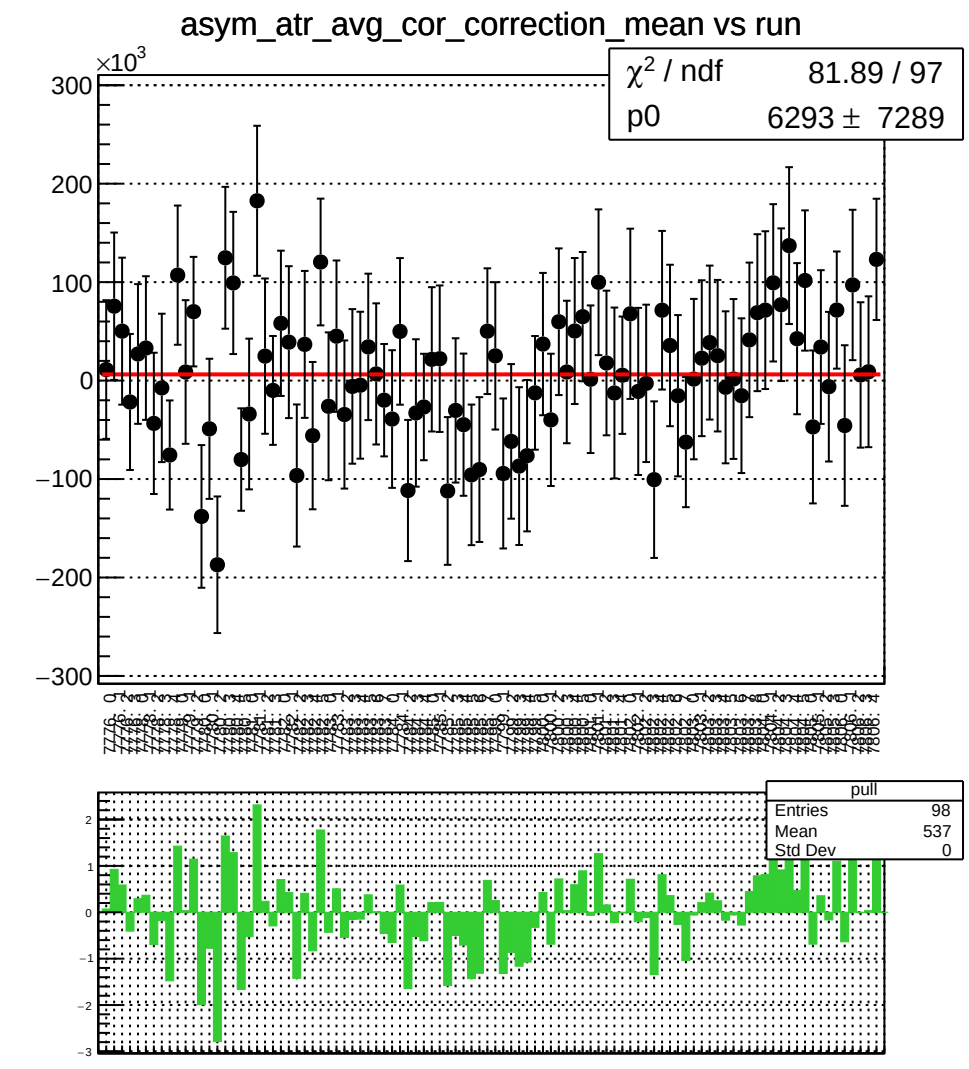

pull1D
Entries 98
Mean 0.009844
Std Dev 0.9141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

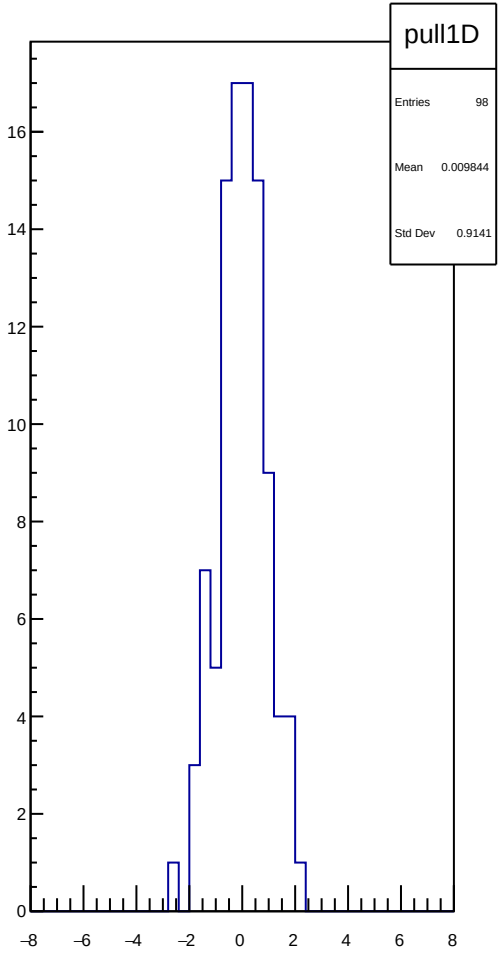

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 4315 / 97
p0 7177 ± 5.154
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

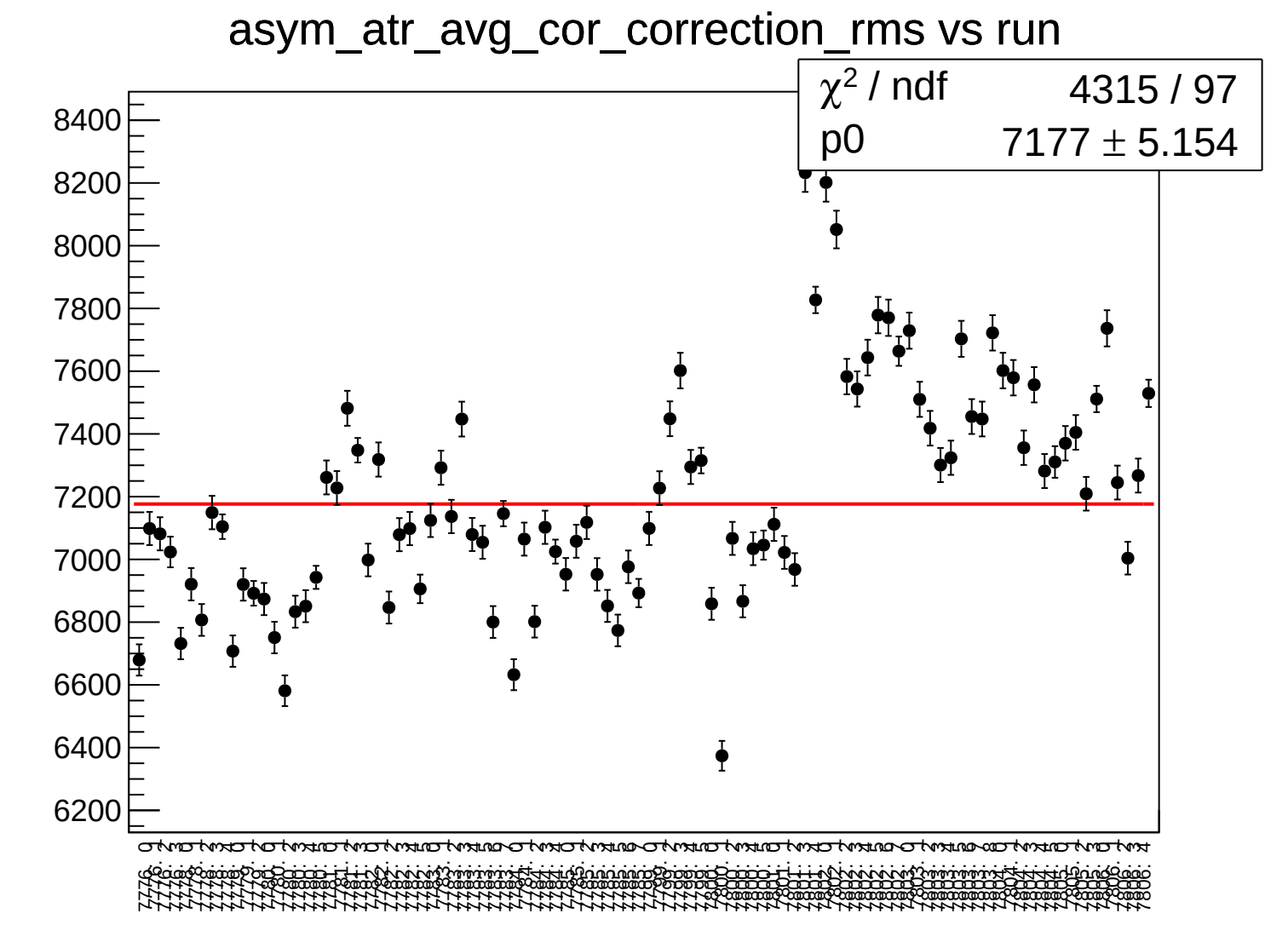

cor_asym_atr_avg_mean vs run
χ² / ndf 87.7 / 97
p0 2794 ± 2020
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −72.14
Std Dev 0
2
1
0
−1
−2

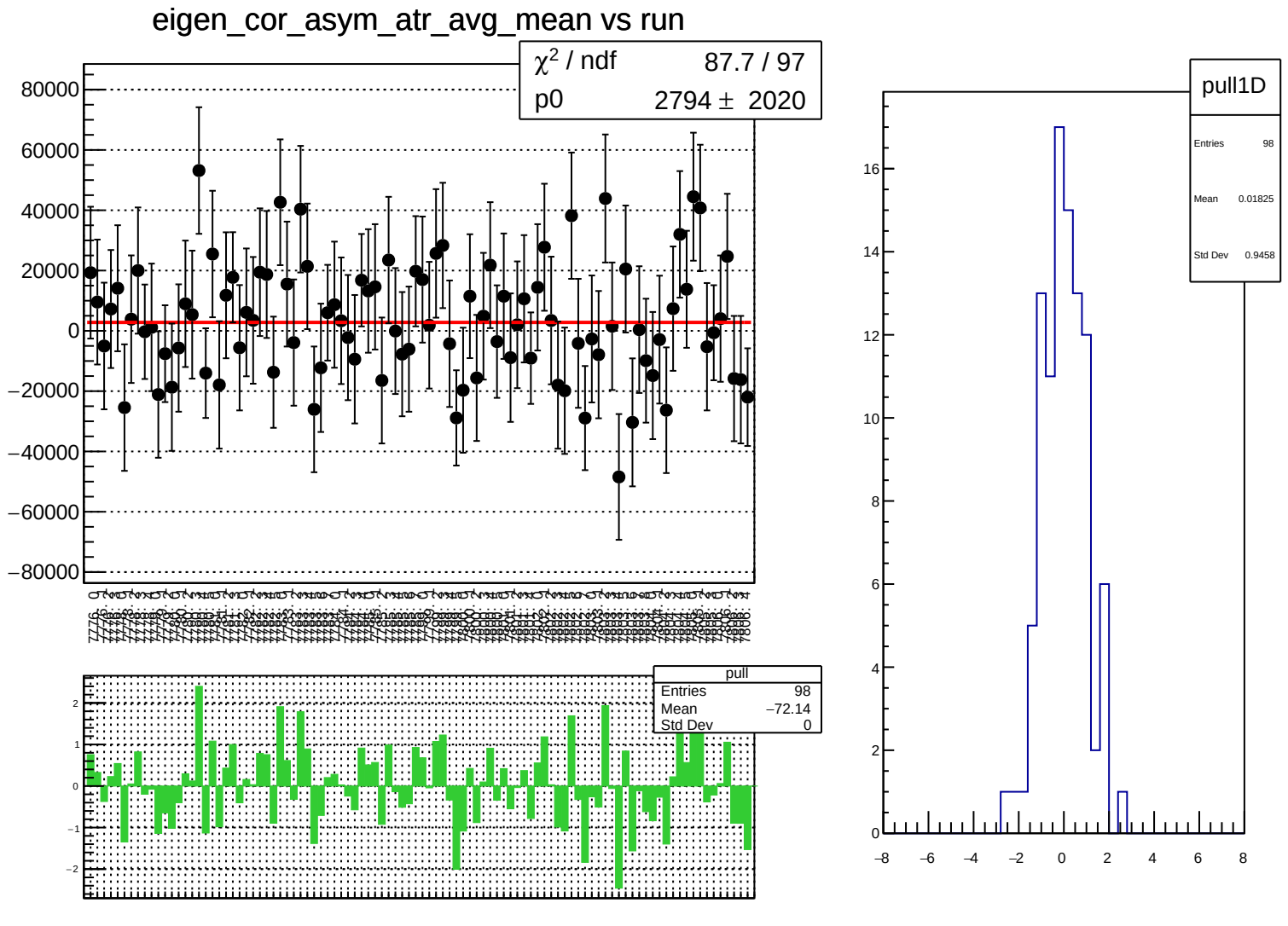

pull1D
Entries 98
Mean 0.01825
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

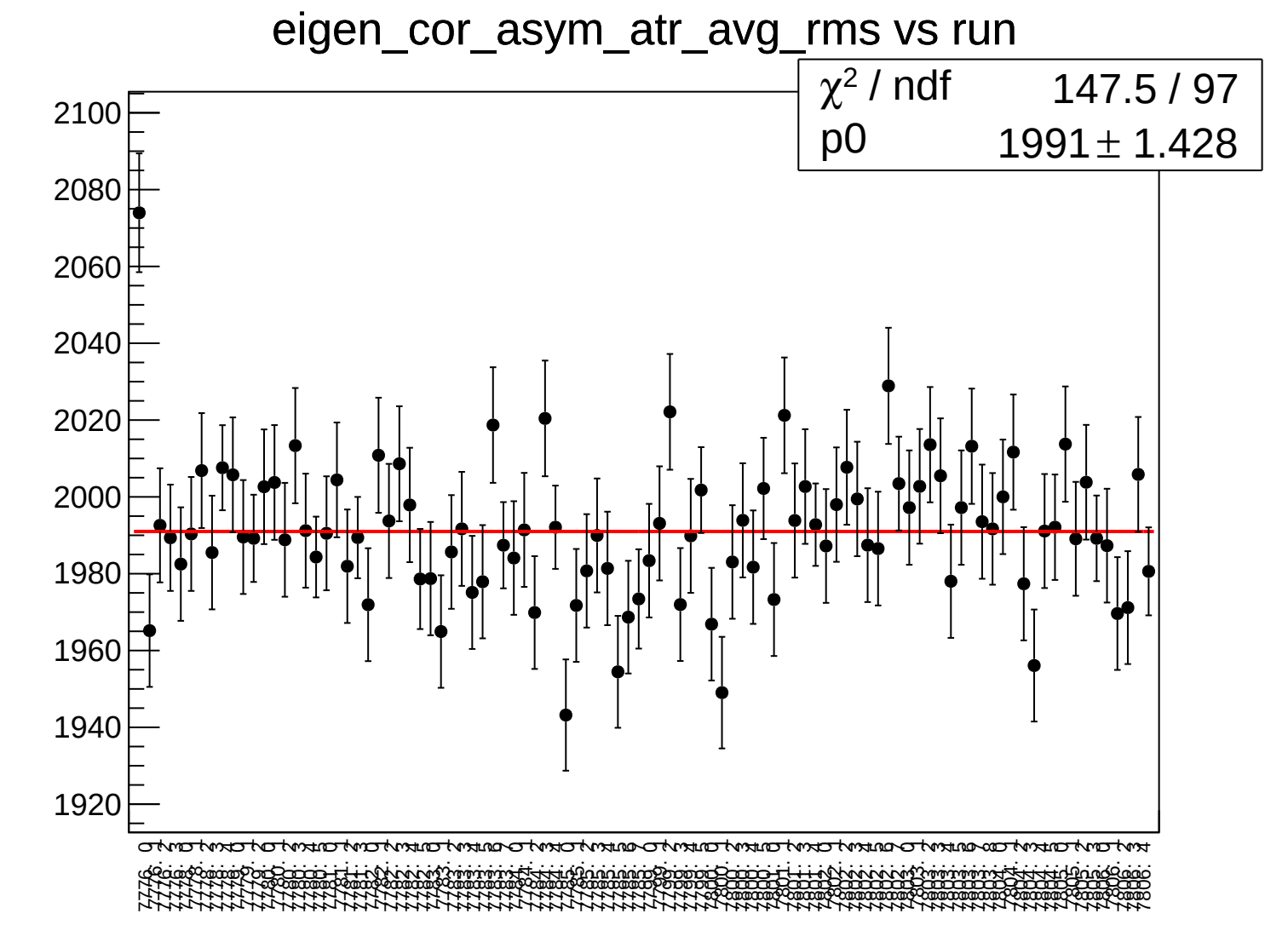

cor_asym_atr_avg_rms vs run
χ² / ndf 147.5 / 97
p0 1991 ± 1.428
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

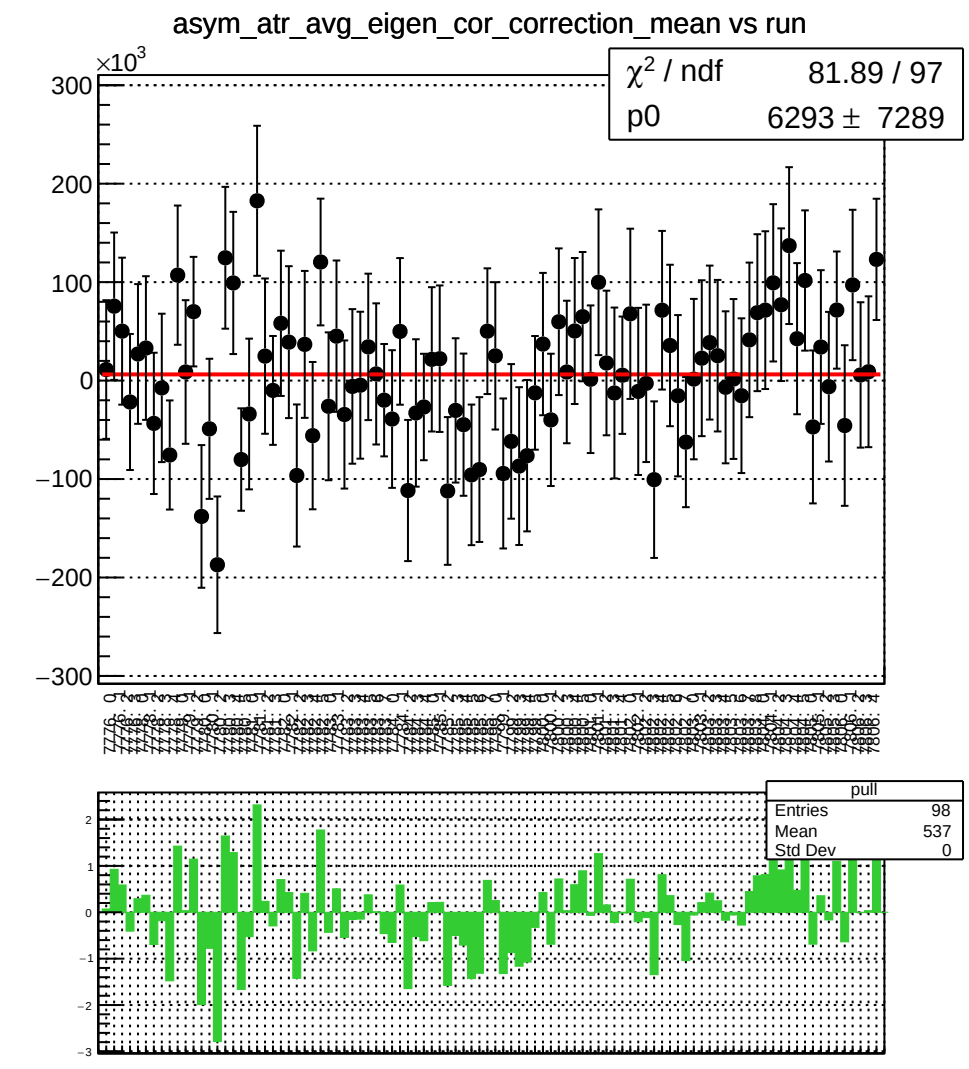

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.89 / 97
p0 6293 ± 7289
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 537
Std Dev 0
2
1
0
−1
−2
−3

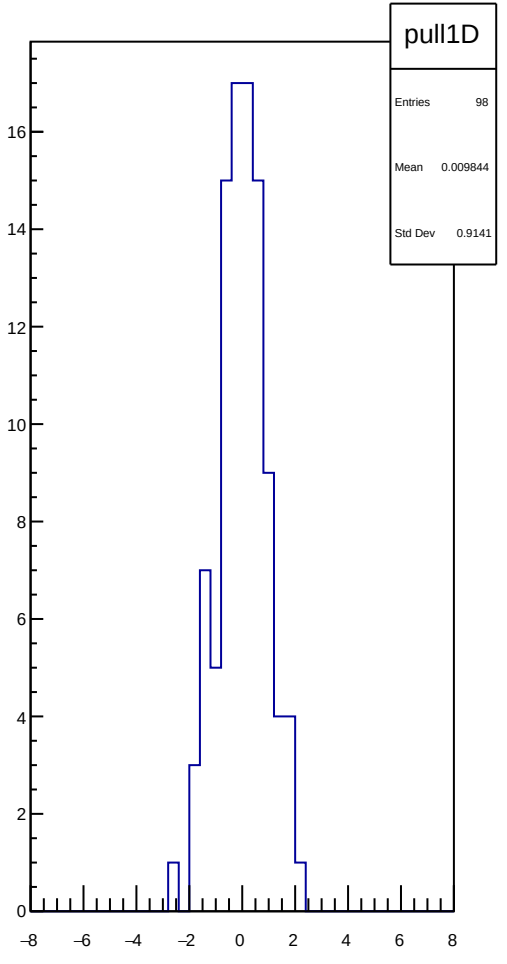

pull1D
Entries 98
Mean 0.009844
Std Dev 0.9141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

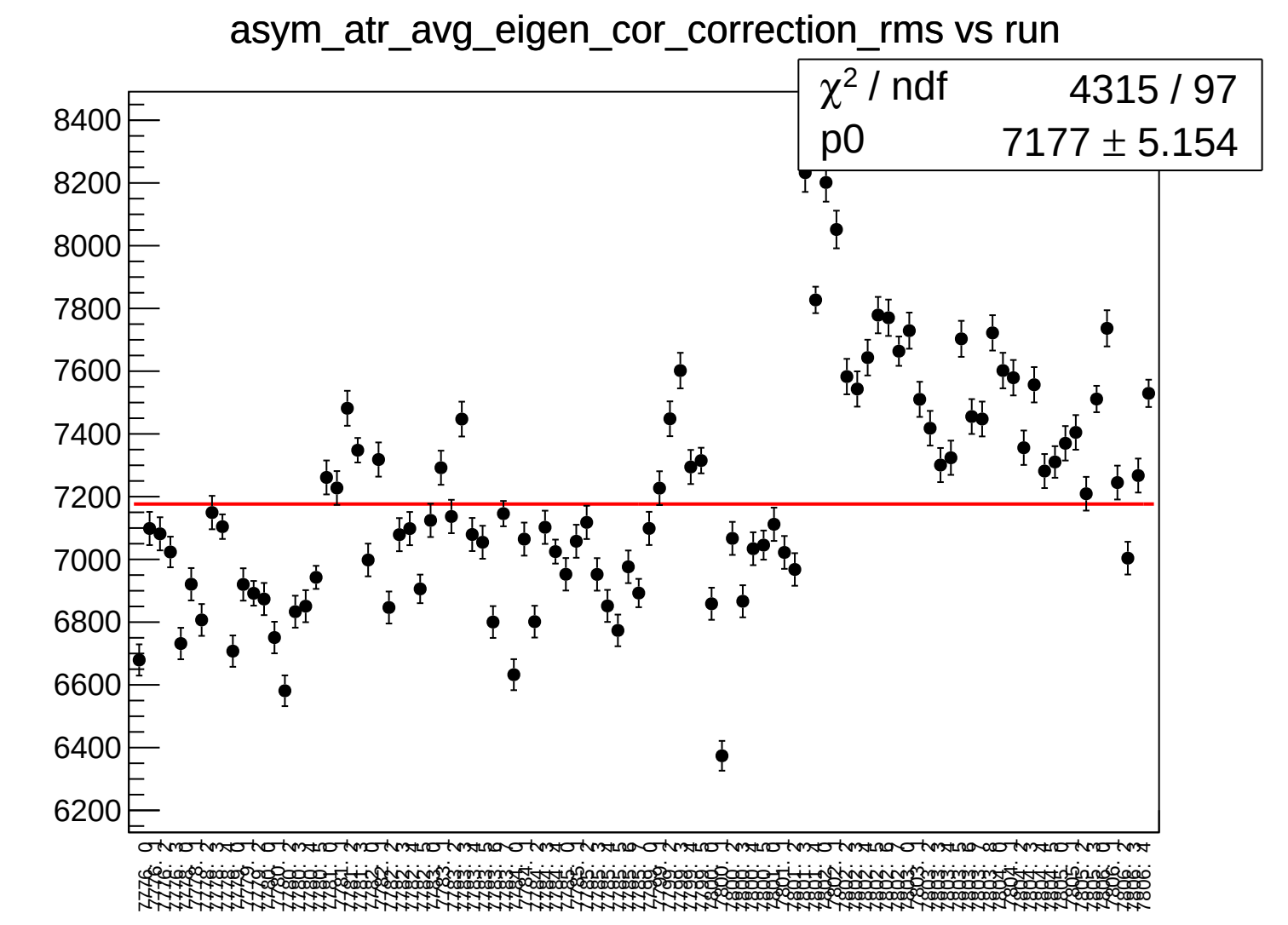

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 4315 / 97
p0 7177 ± 5.154
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

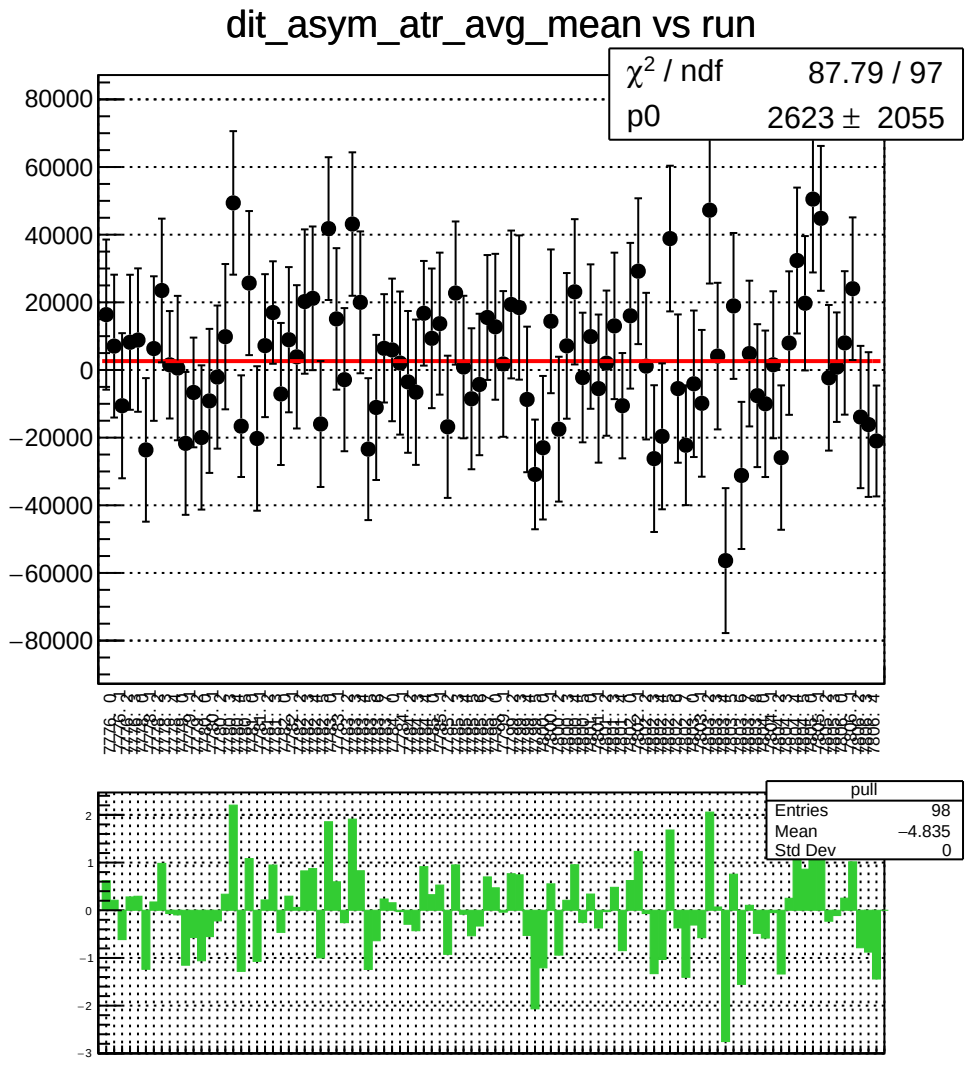

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 87.7 / 97
p0 2794 ± 2020
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −72.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01825
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

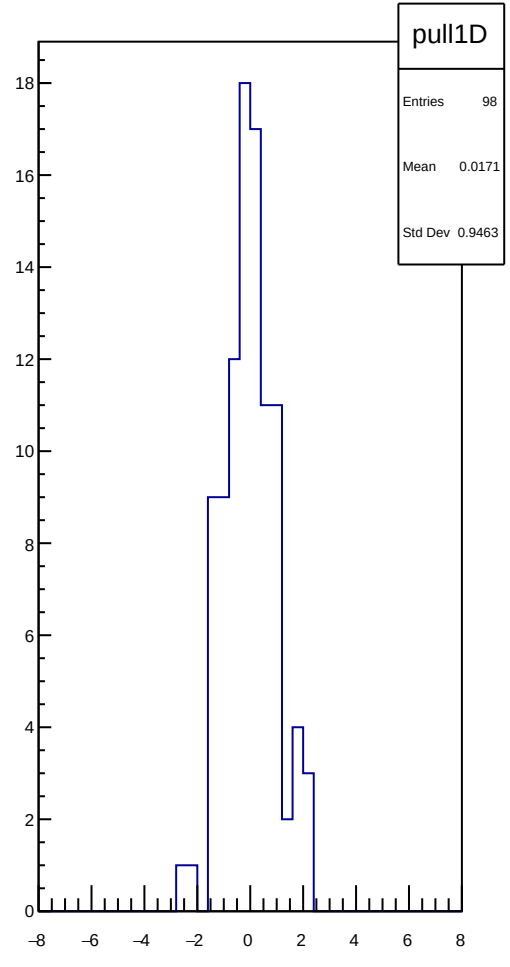

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 147.5 / 97
p0 1991 ± 1.428
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

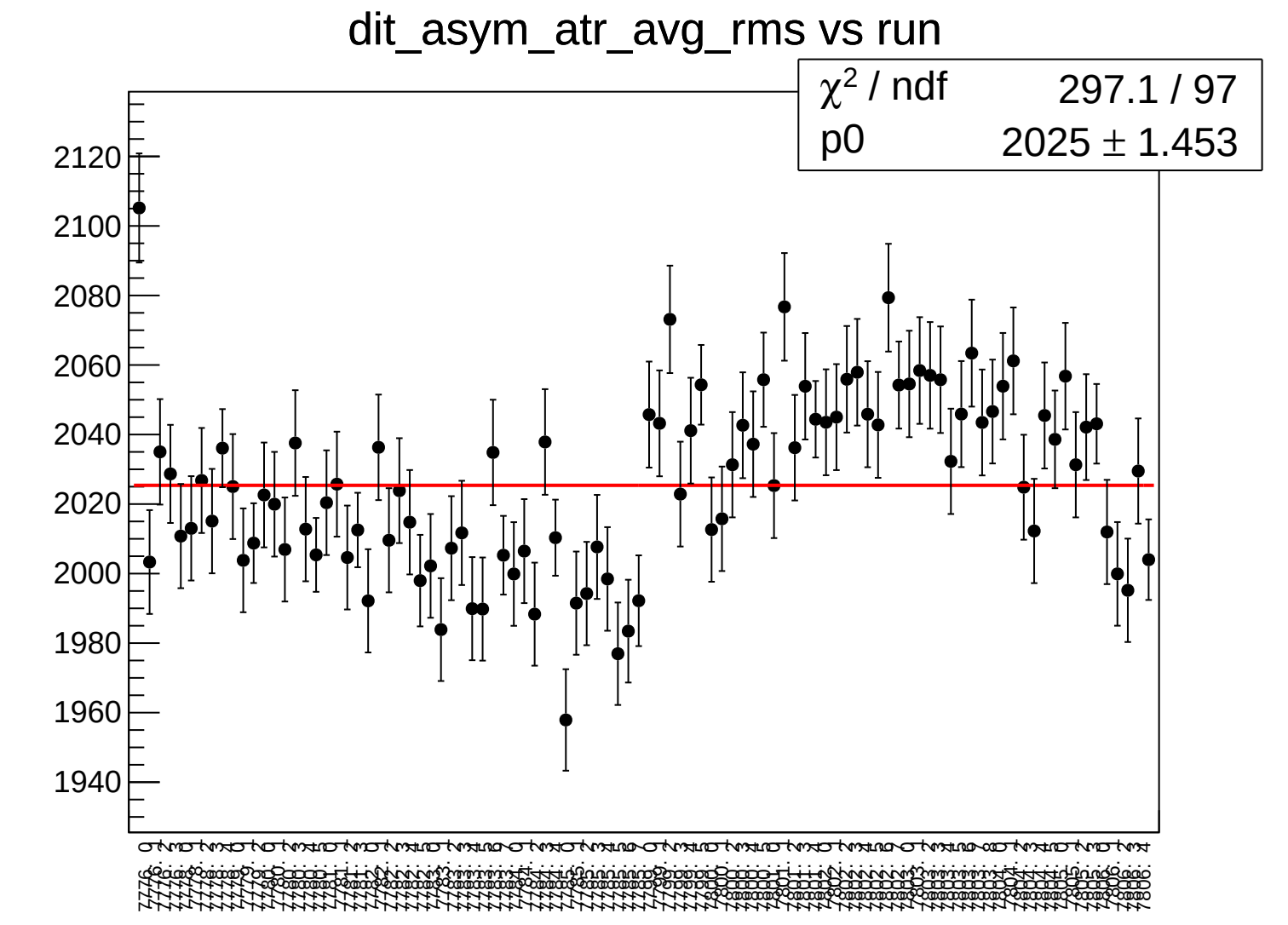

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.89 / 97
p0 6293 ± 7289
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 537
Std Dev 0
2
1
0
−1
−2
−3

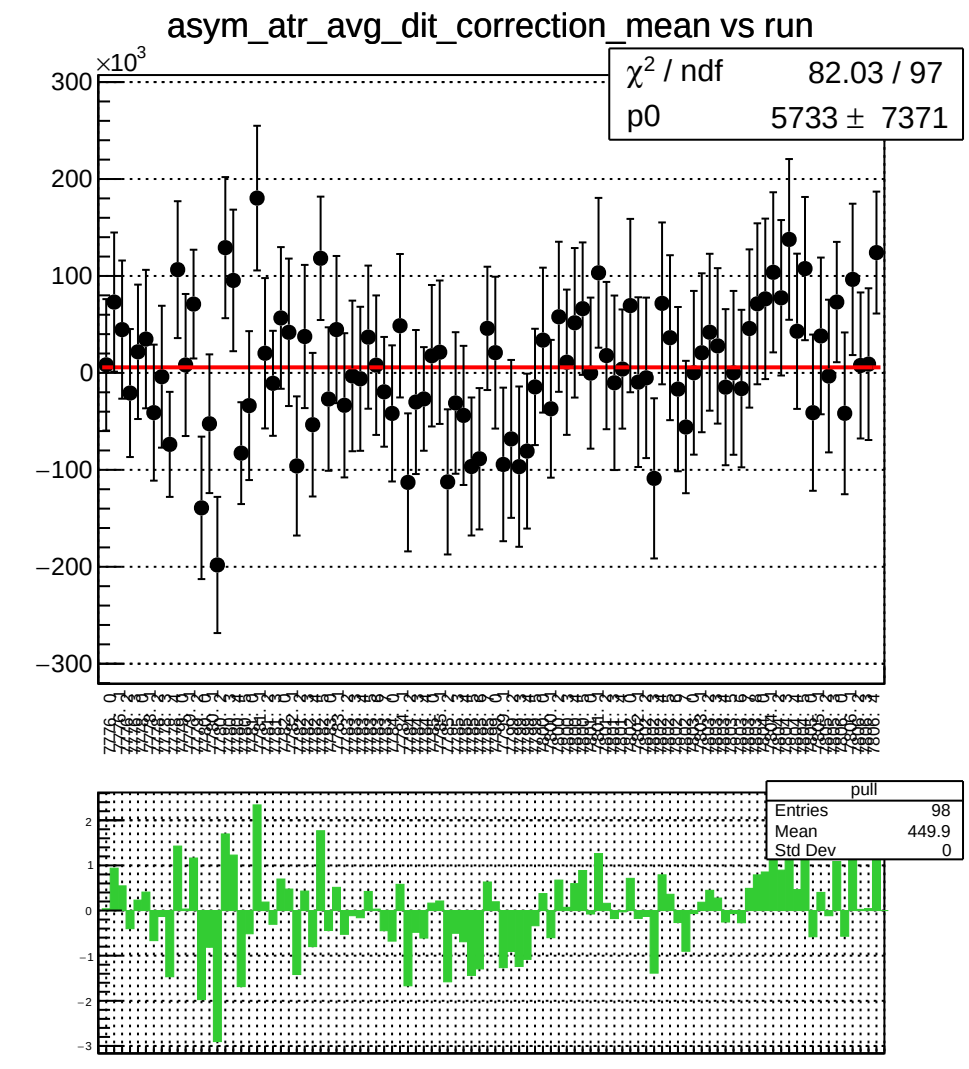

pull1D
Entries 98
Mean 0.009844
Std Dev 0.9141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

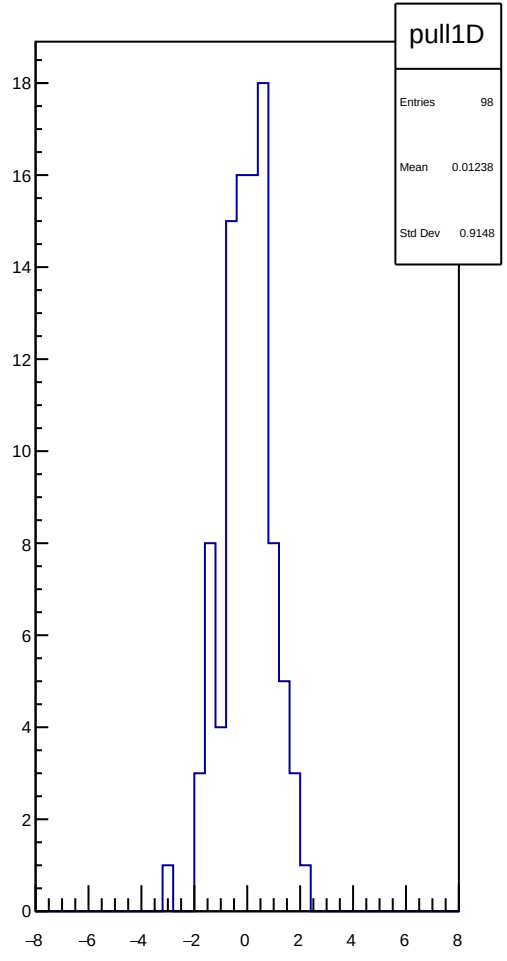

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 4315 / 97
p0 7177 ± 5.154
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

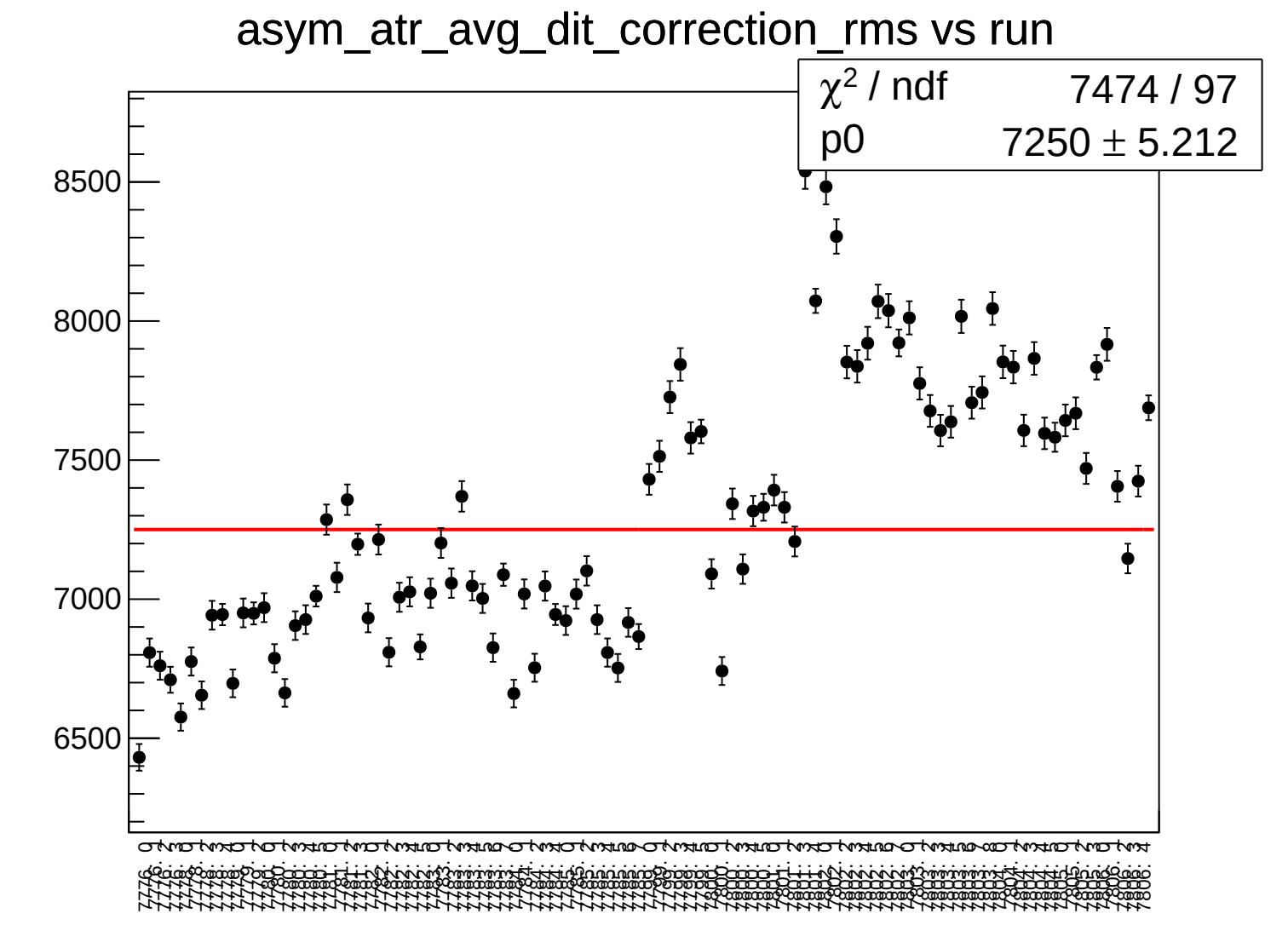

dit_asym_atr_avg_mean vs run
χ² / ndf 87.79 / 97
p0 2623 ± 2055
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −4.835
Std Dev 0
2
1
0
−1
−2
−3

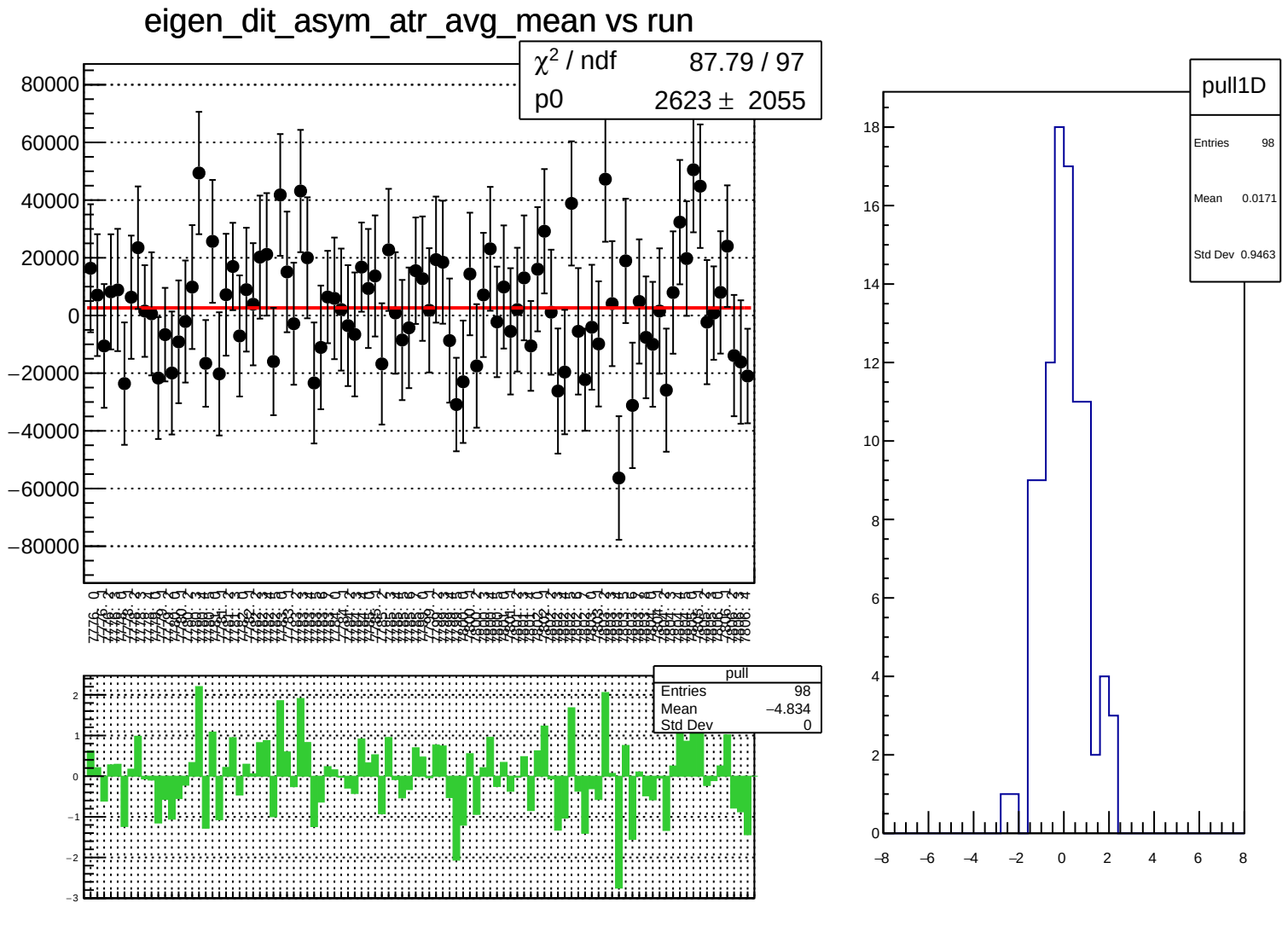

pull1D
Entries 98
Mean 0.0171
Std Dev 0.9463
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

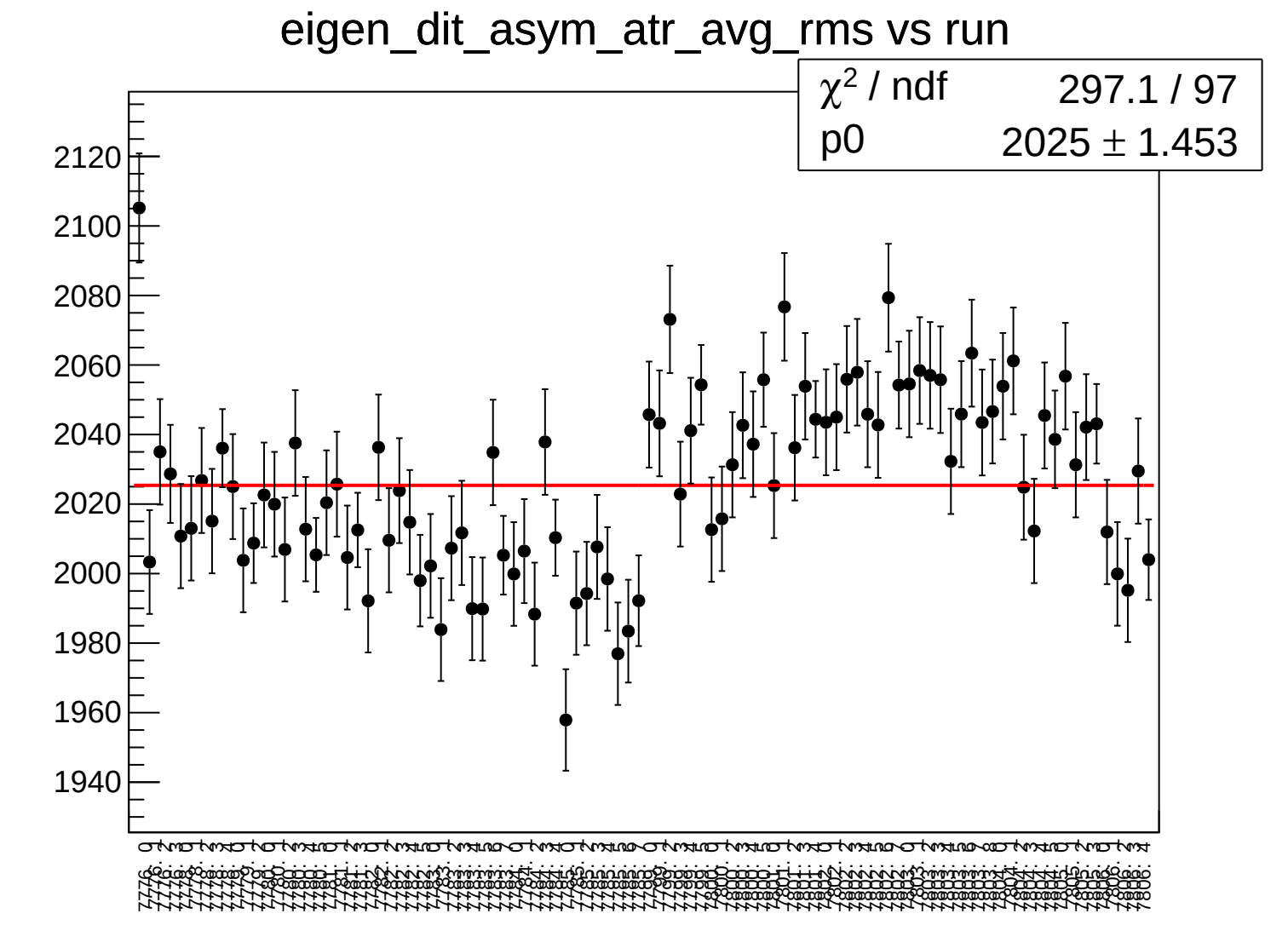

dit_asym_atr_avg_rms vs run
χ² / ndf 297.1 / 97
p0 2025 ± 1.453
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

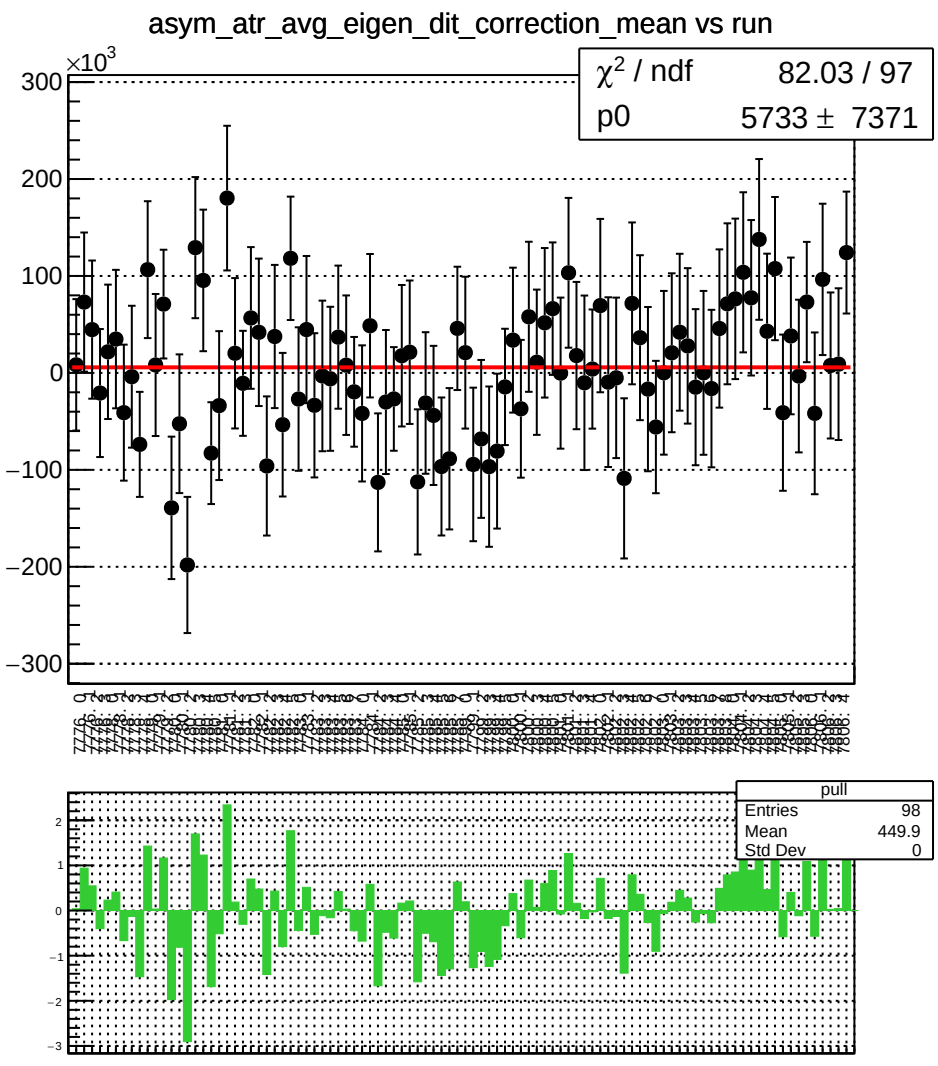

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.03 / 97
p0 5733 ± 7371
pull
Entries 98
Mean 449.9
Std Dev 0

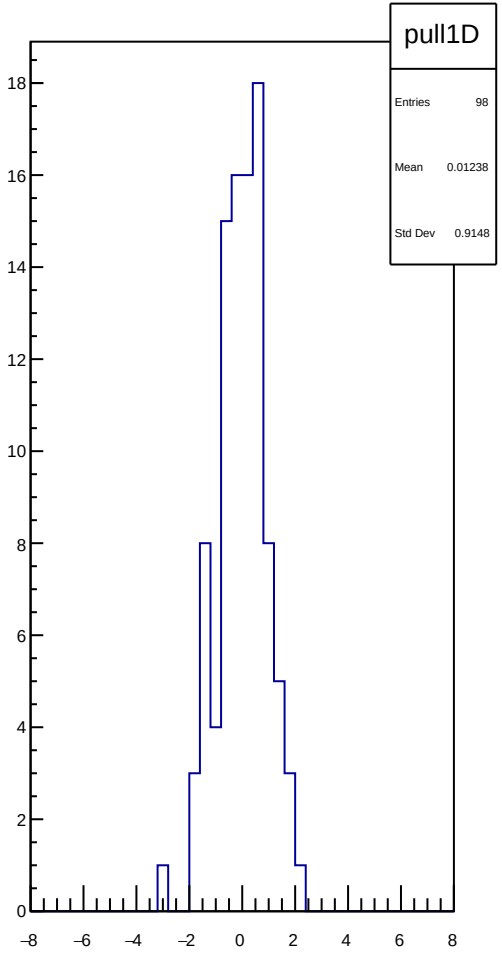

pull1D
Entries 98
Mean 0.01238
Std Dev 0.9148

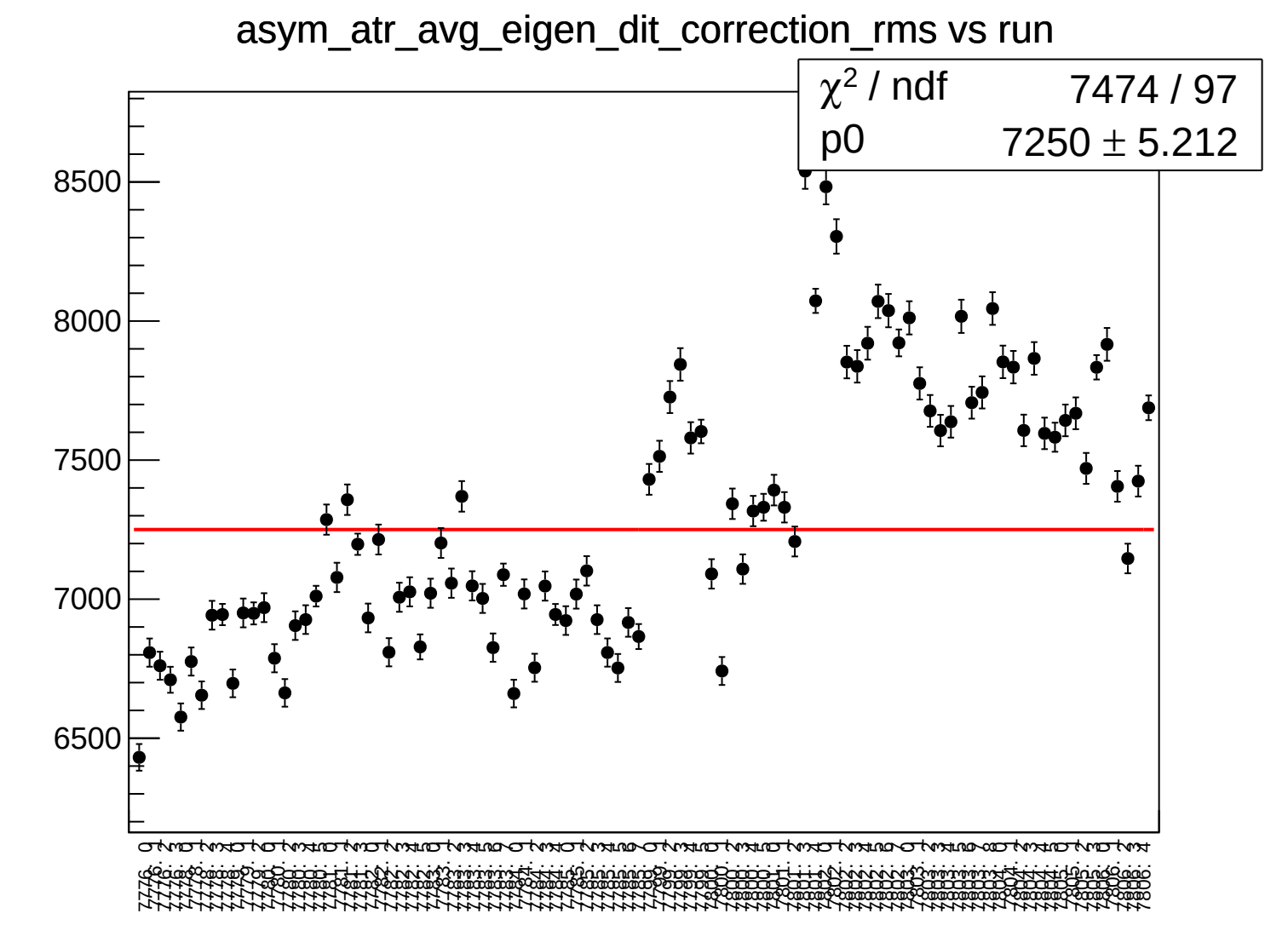

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 7474 / 97
p0 7250 ± 5.212
8500
8000
7500
7000
6500

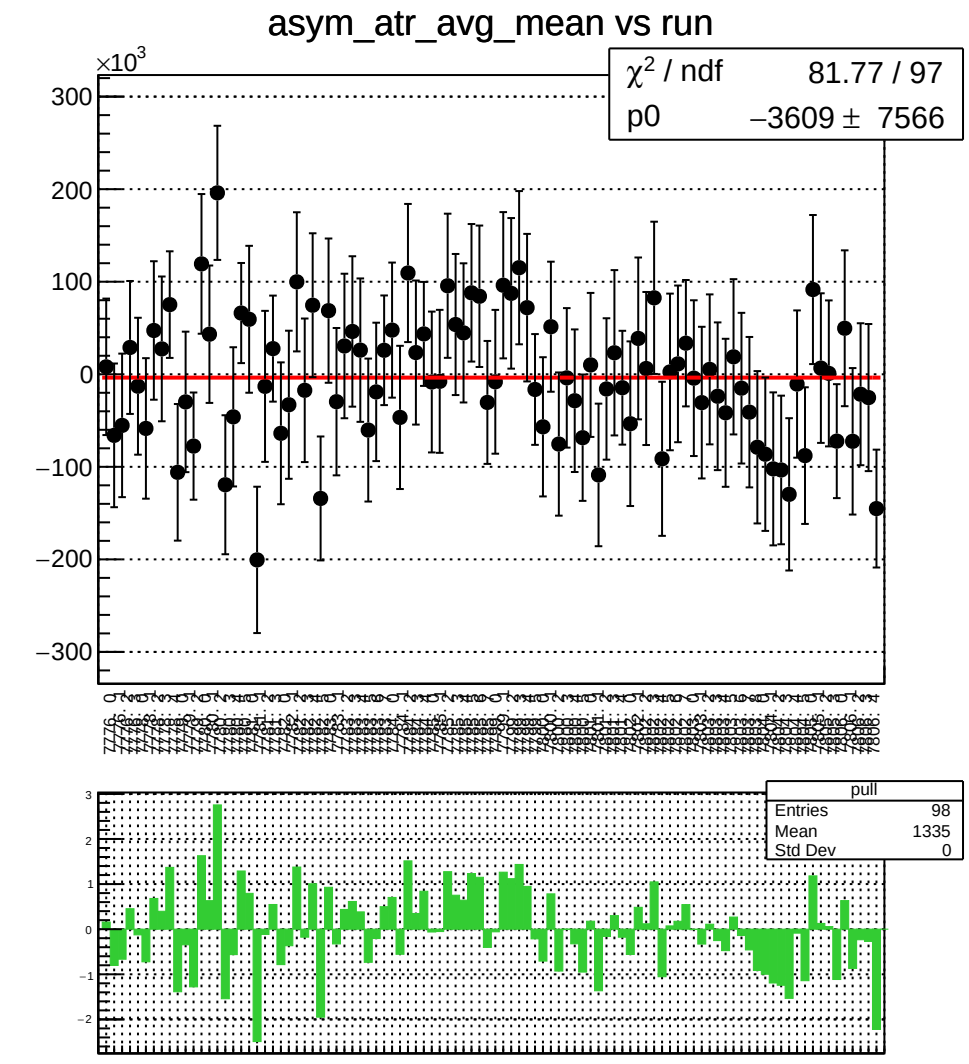

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 87.79 / 97
p0 2623 ± 2055
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −4.834
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.0171
Std Dev 0.9463
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

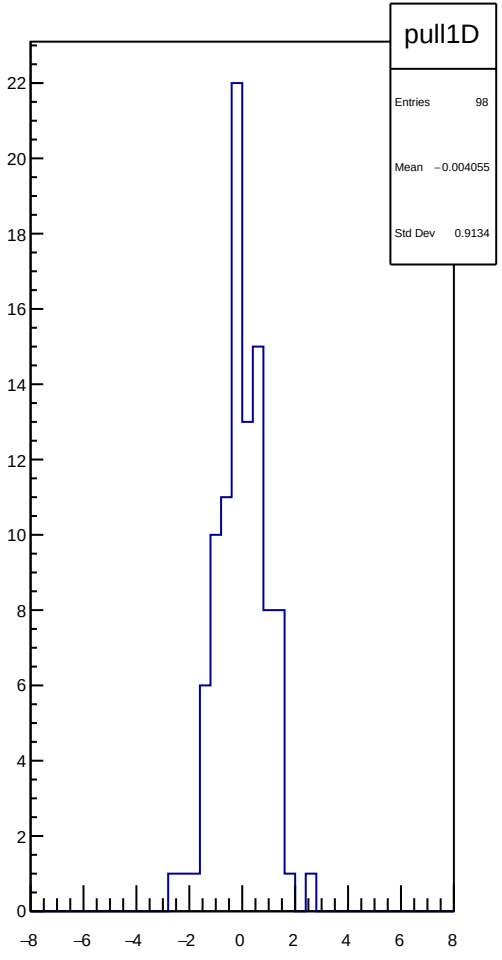

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 297.1 / 97
p0 2025 ± 1.453
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

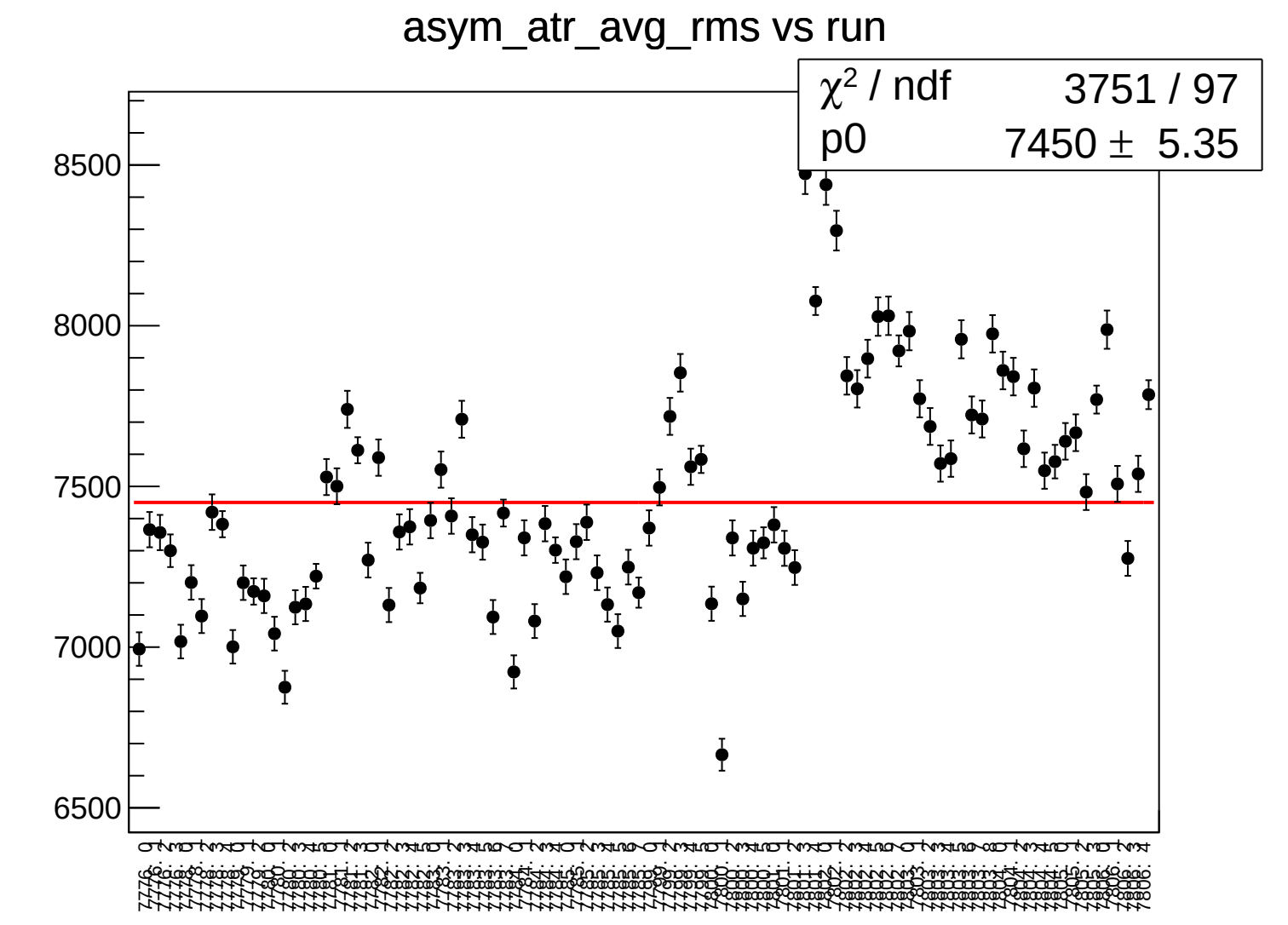

asym_atr_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.03 / 97
p0 5733 ± 7371
pull
Entries 98
Mean 449.9
Std Dev 0

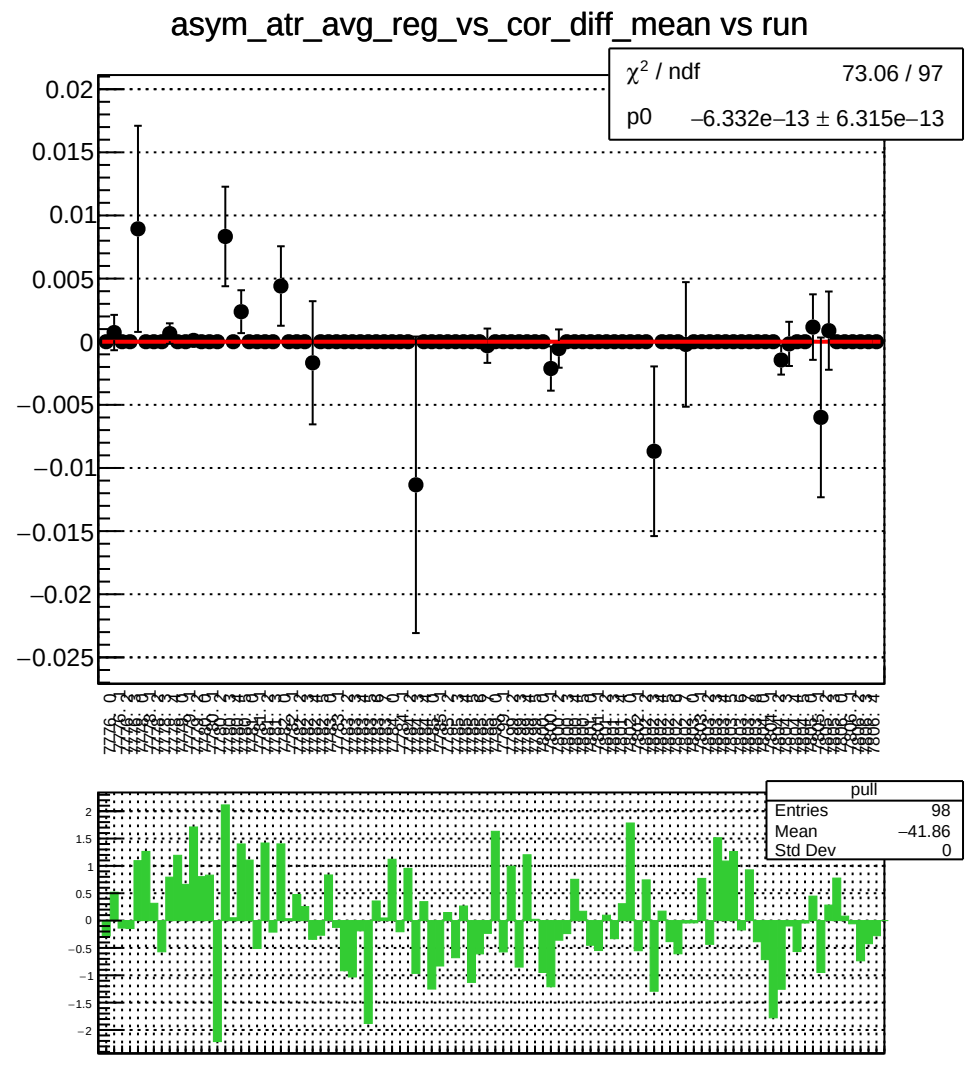

pull1D
Entries 98
Mean 0.01238
Std Dev 0.9148

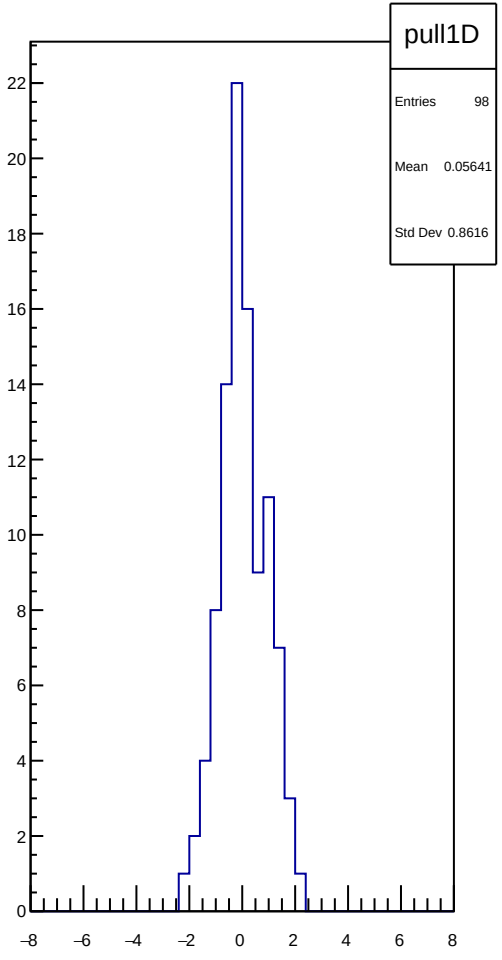

asym_atr_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 7474 / 97
p0 7250 ± 5.212
8500
8000
7500
7000
6500

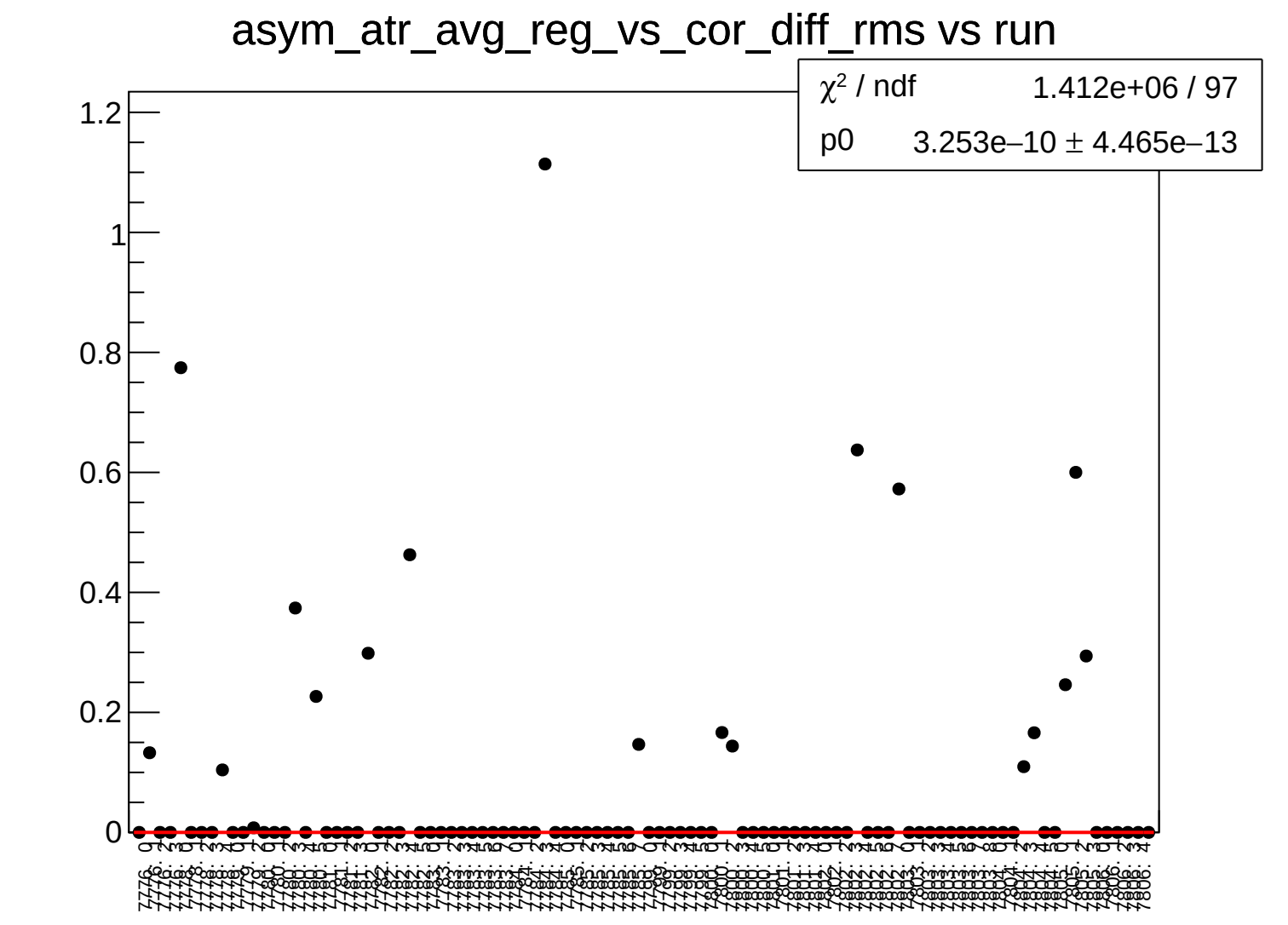

asym_atr_avg_mean vs run
×10^3
χ² / ndf 81.77 / 97
p0 −3609 ± 7566
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 1335
Std Dev 0
3
2
1
0
−1
−2

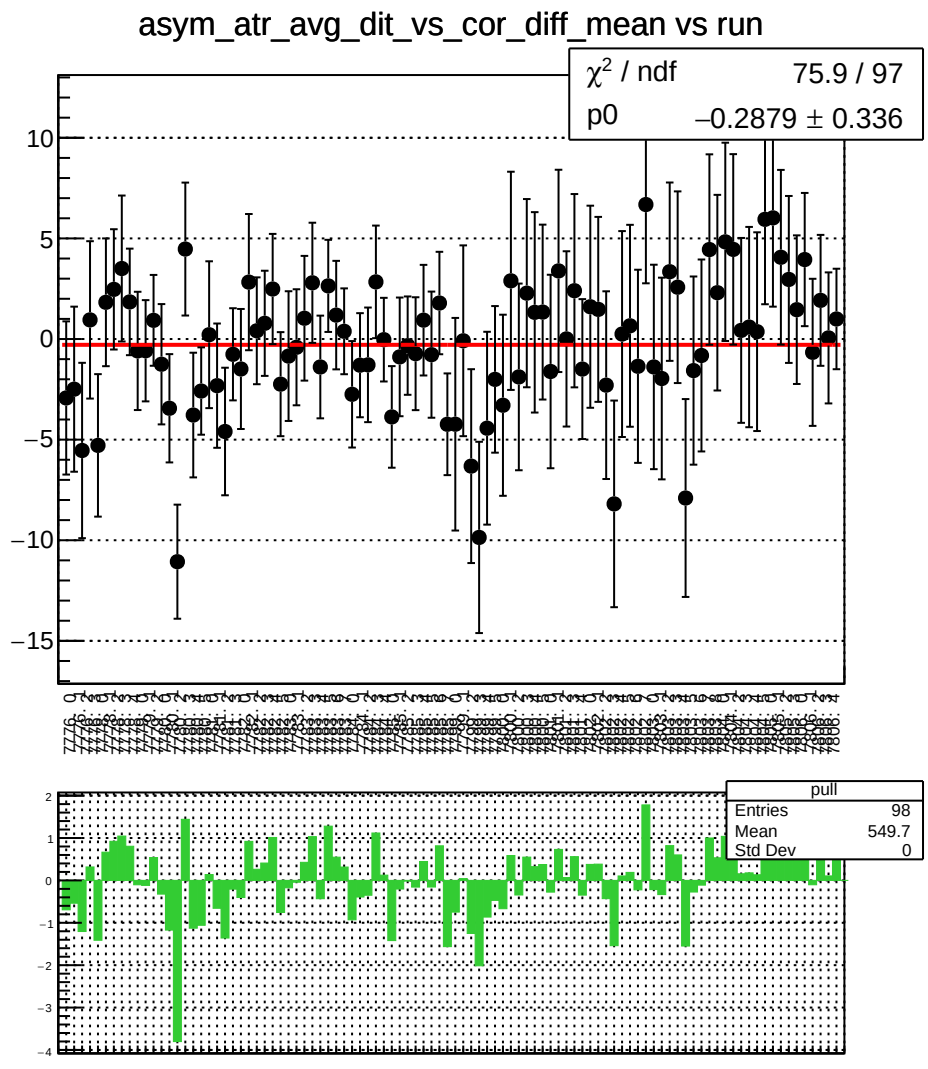

pull1D
Entries 98
Mean −0.004055
Std Dev 0.9134
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

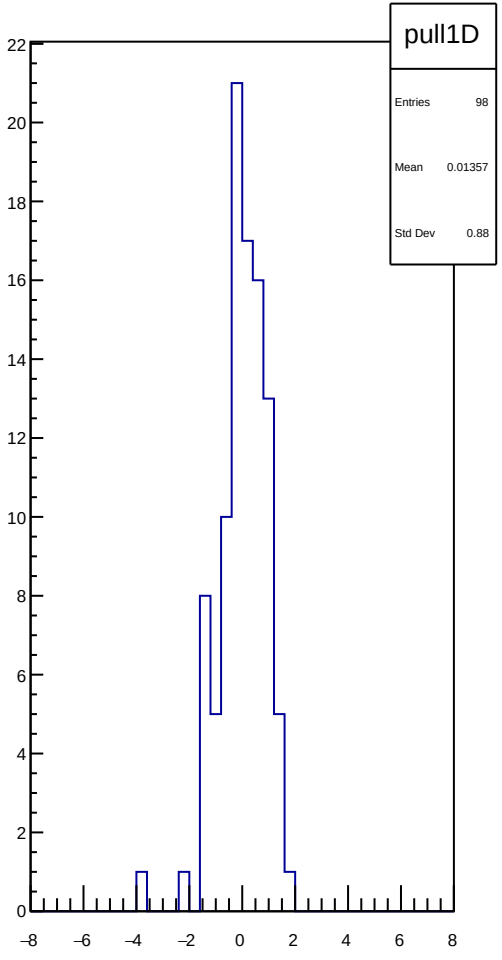

asym_atr_avg_rms vs run
χ² / ndf 3751 / 97
p0 7450 ± 5.35
8500
8000
7500
7000
6500

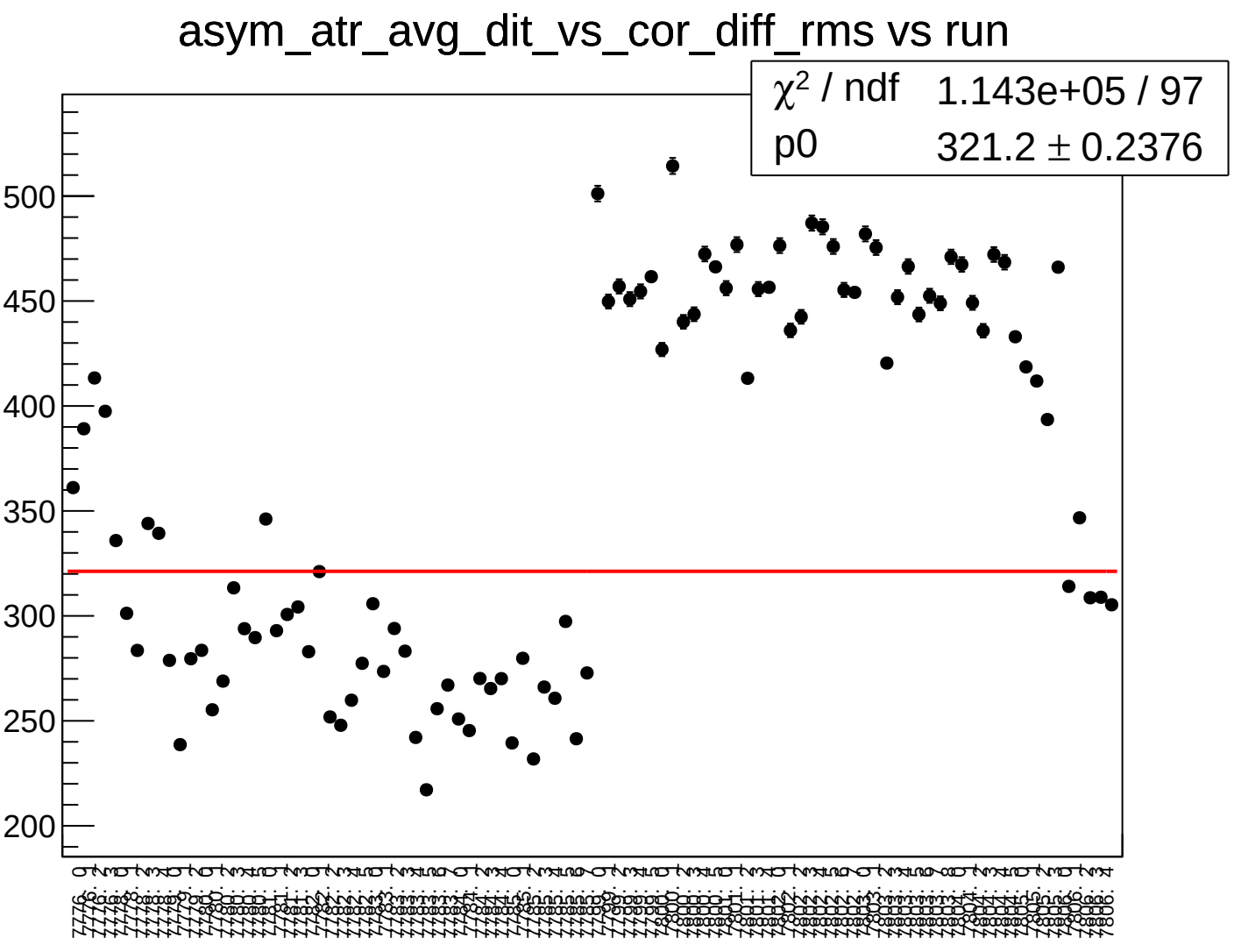

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.06 / 97
p0 −6.332e−13 ± 6.315e−13
pull
Entries 98
Mean −41.86
Std Dev 0

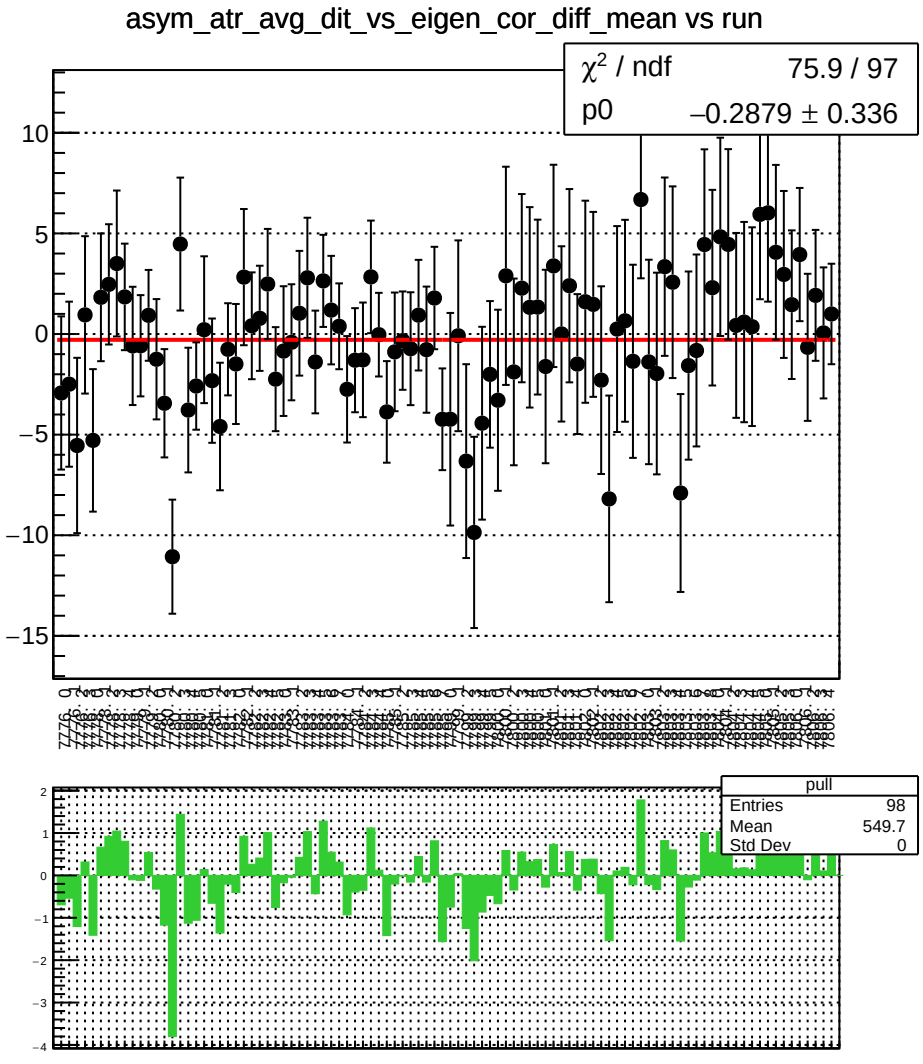

pull1D
Entries 98
Mean 0.05641
Std Dev 0.8616

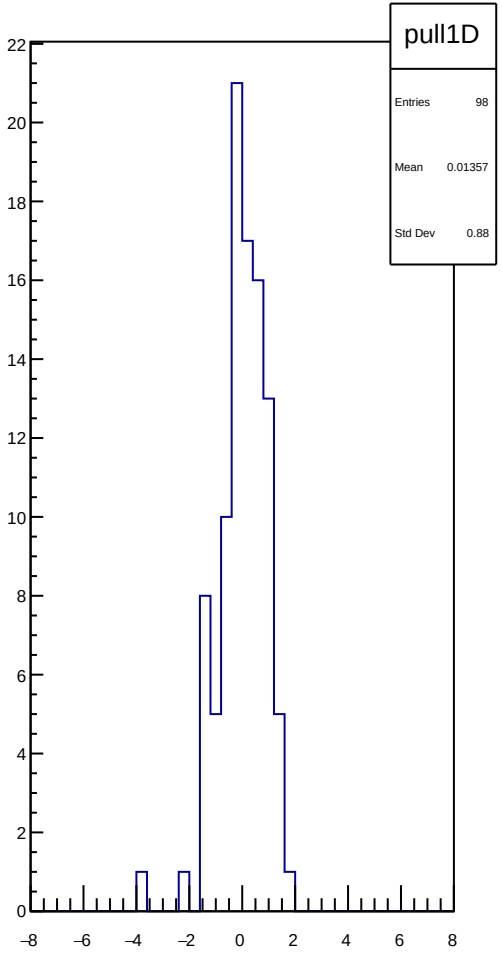

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.412e+06 / 97
p0 3.253e−10 ± 4.465e−13
1.2
1
0.8
0.6
0.4
0.2
0

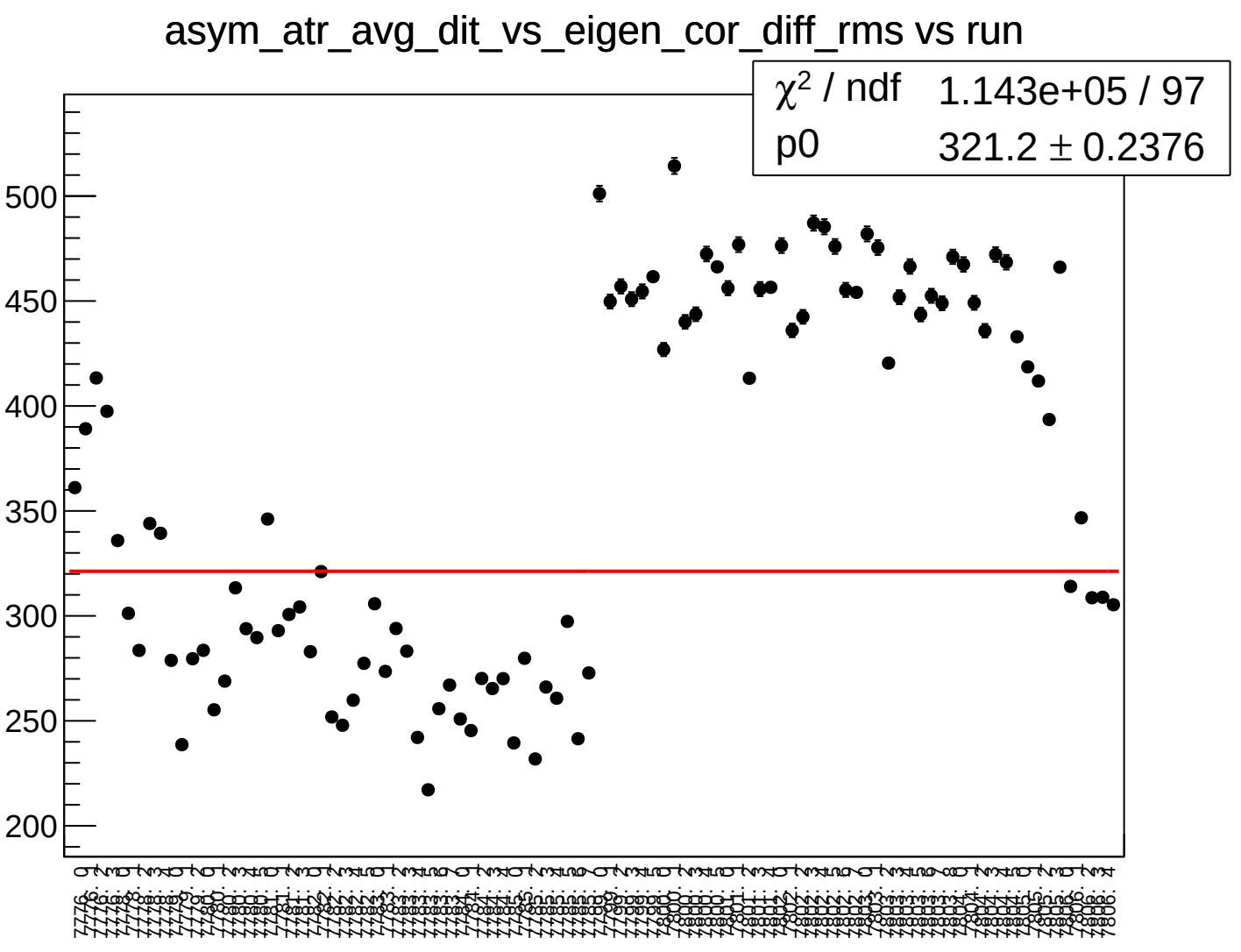

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.9 / 97
p0 −0.2879 ± 0.336
pull
Entries 98
Mean 549.7
Std Dev 0

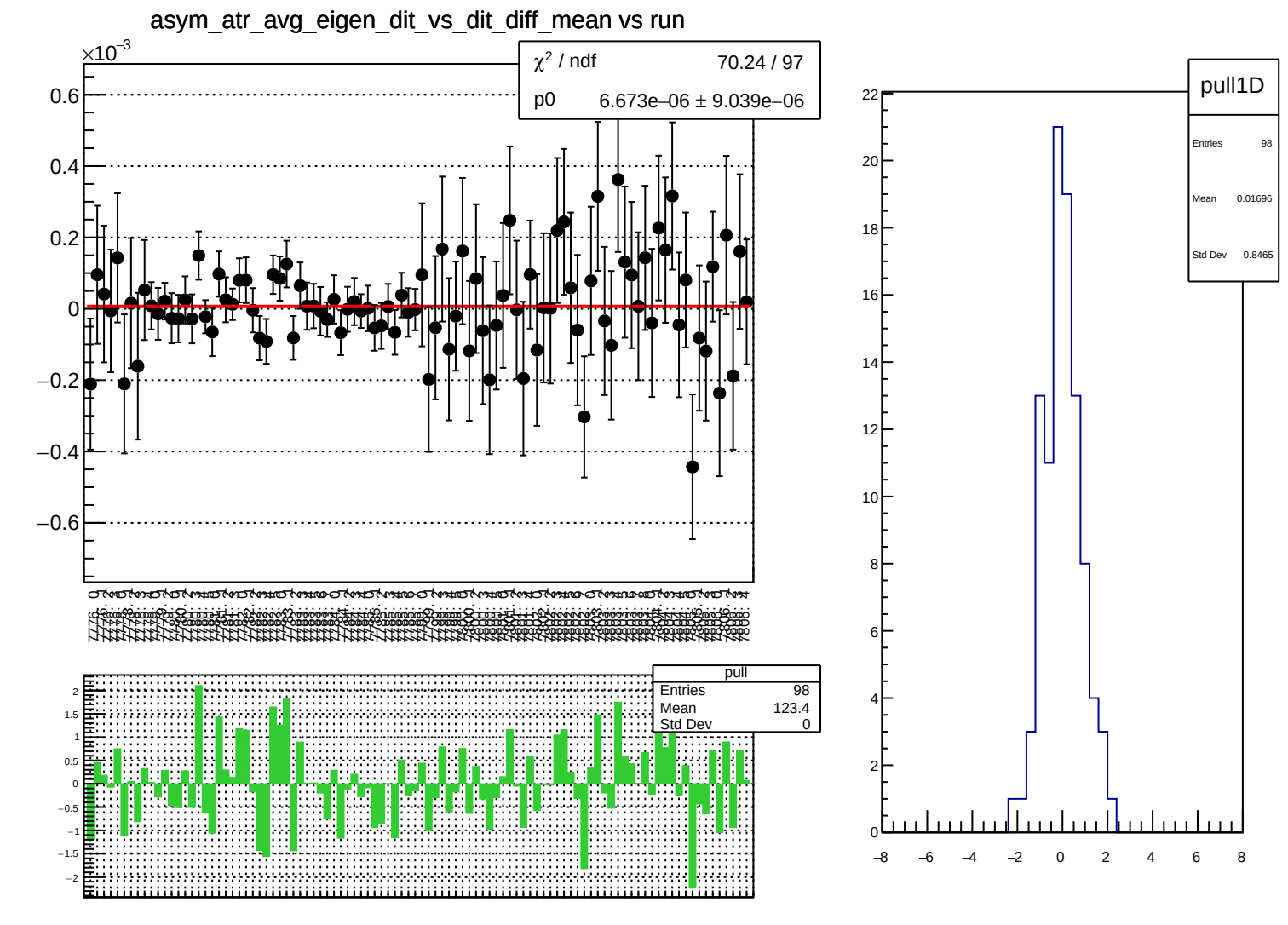

pull1D
Entries 98
Mean 0.01357
Std Dev 0.88

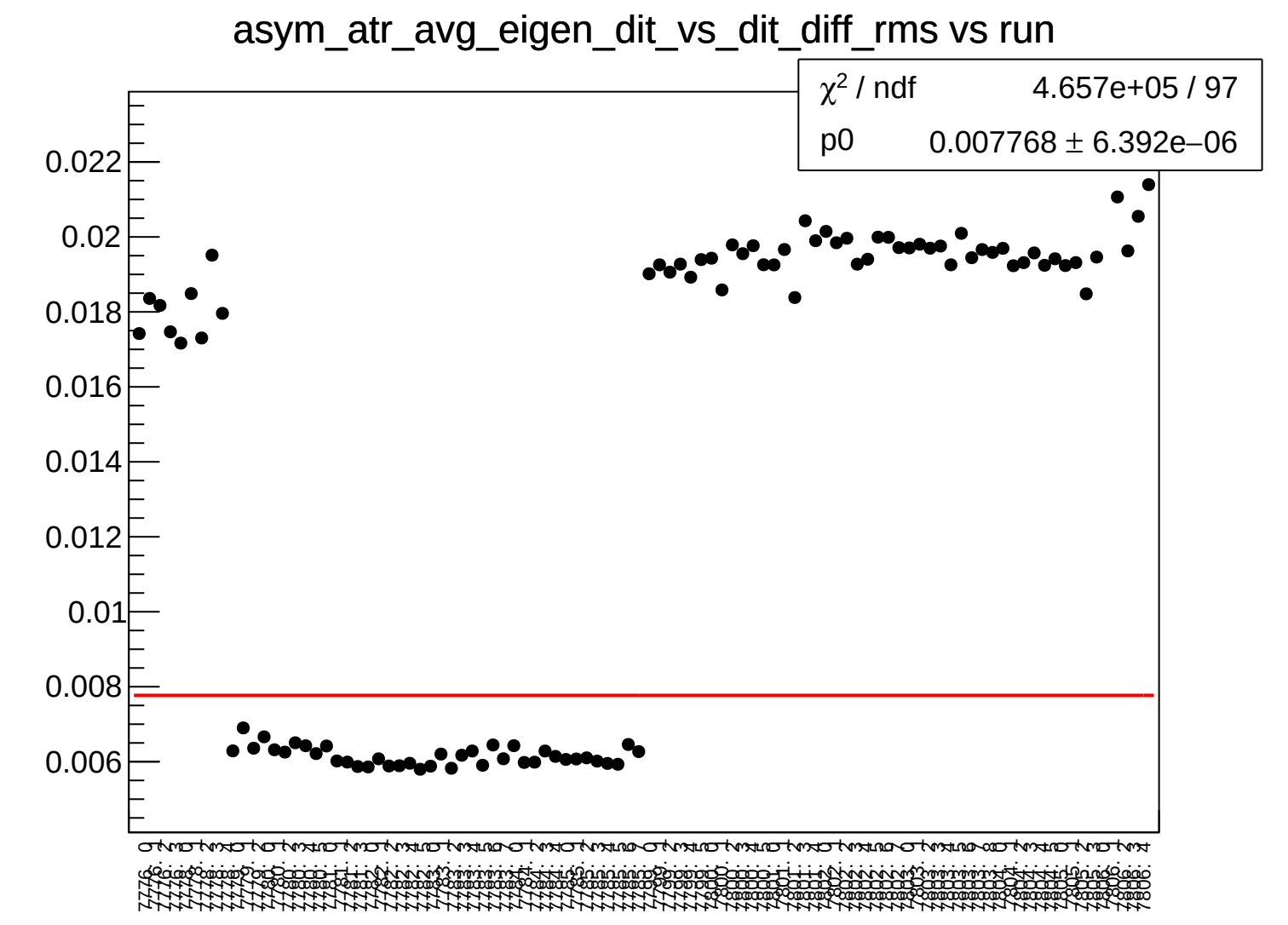

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.143e+05 / 97
p0 321.2 ± 0.2376
500
450
400
350
300
250
200

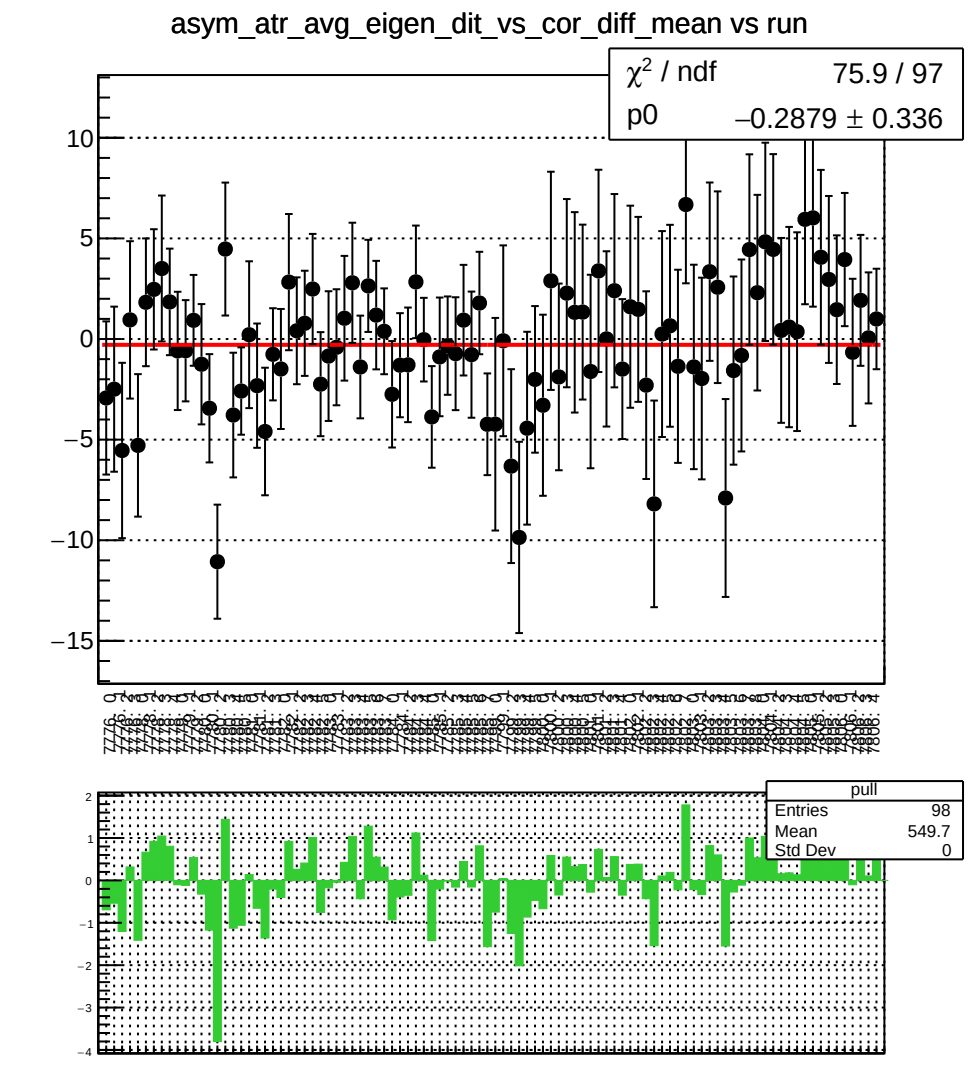

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.9 / 97
p0 −0.2879 ± 0.336
pull
Entries 98
Mean 549.7
Std Dev 0

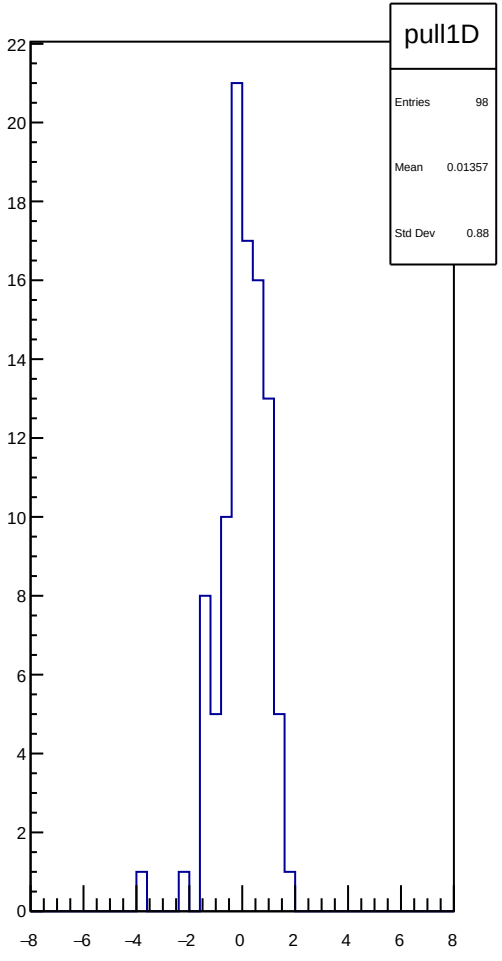

pull1D
Entries 98
Mean 0.01357
Std Dev 0.88

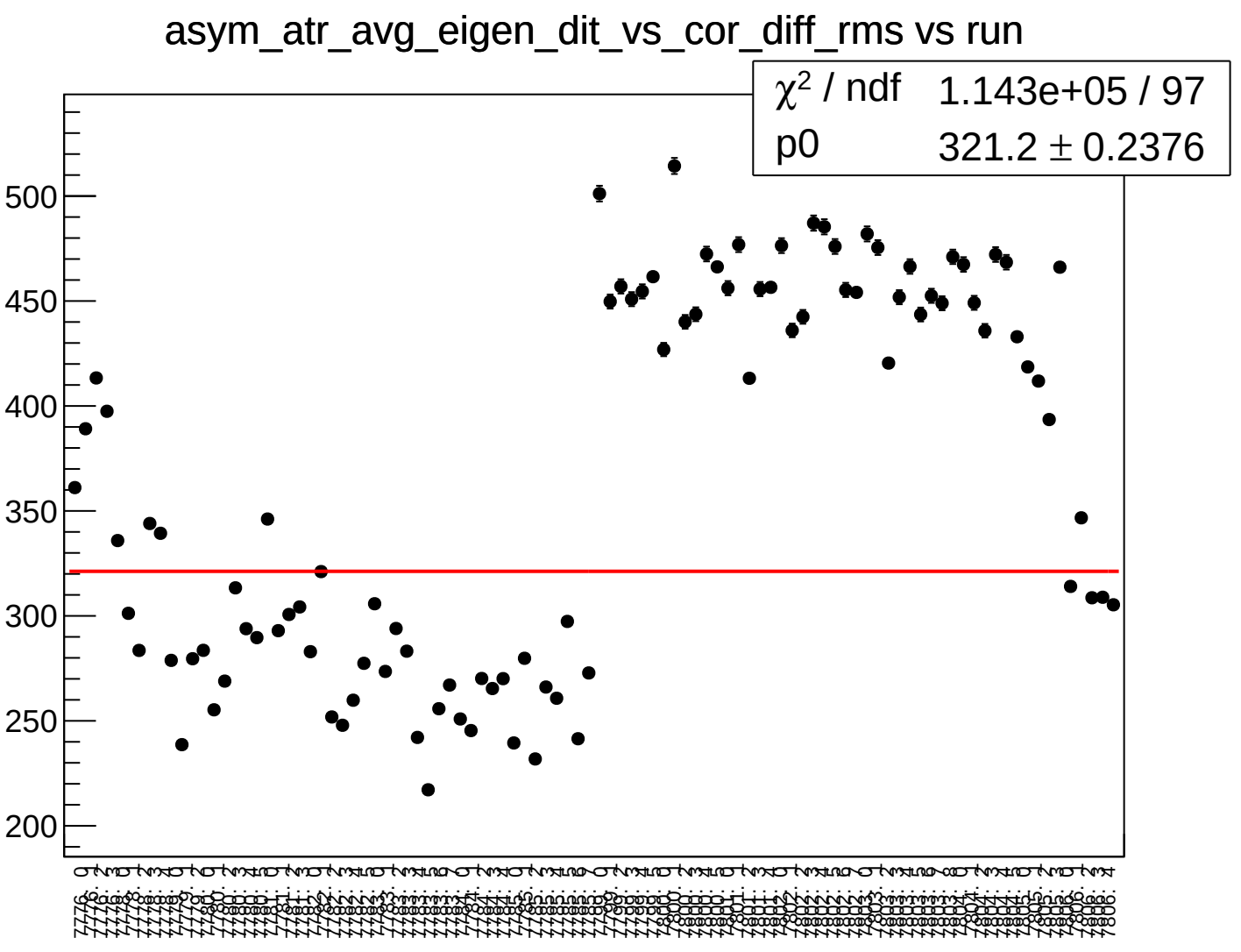

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.143e+05 / 97
p0 321.2 ± 0.2376
500
450
400
350
300
250
200

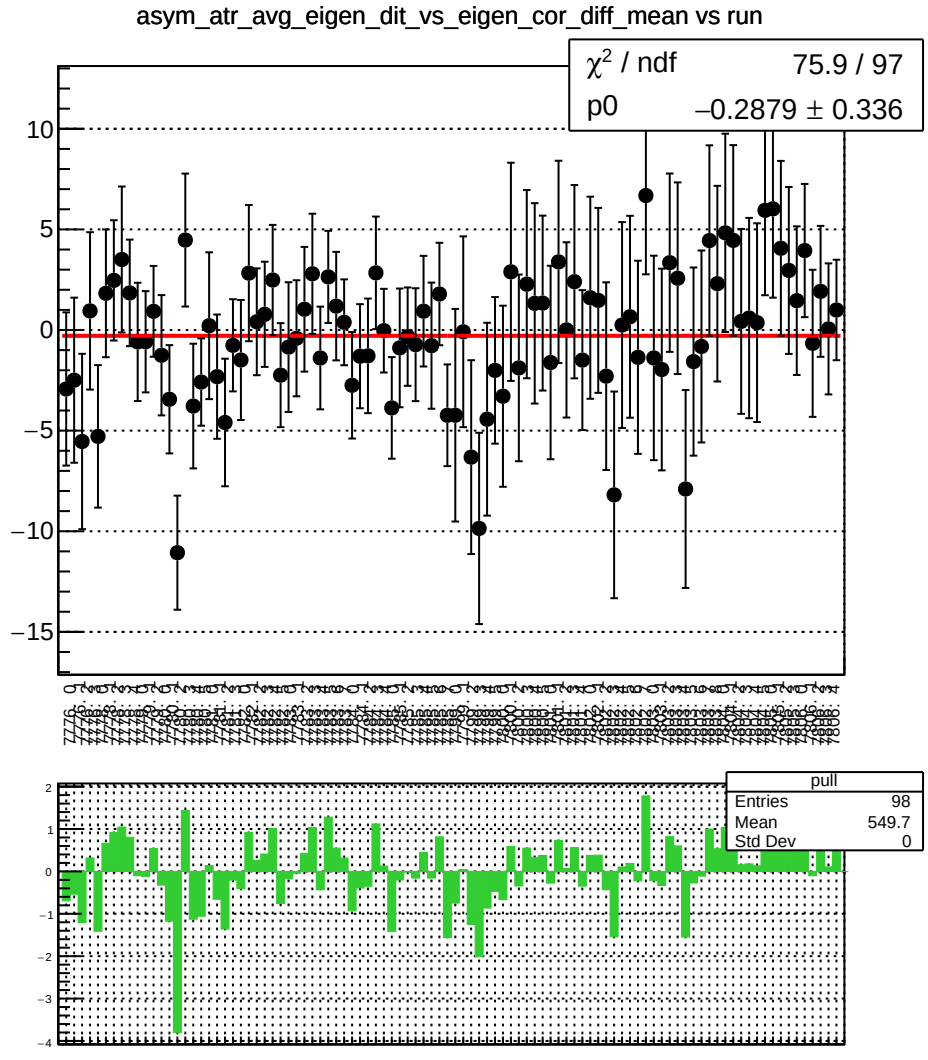

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.24 / 97
p0 6.673e−06 ± 9.039e−06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 98
Mean 123.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.01696
Std Dev 0.8465
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

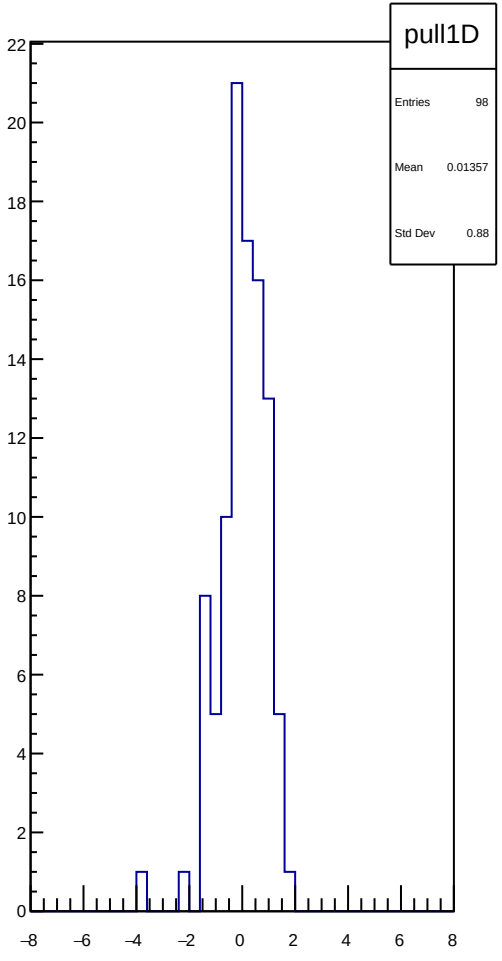

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.657e+05 / 97
p0 0.007768 ± 6.392e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

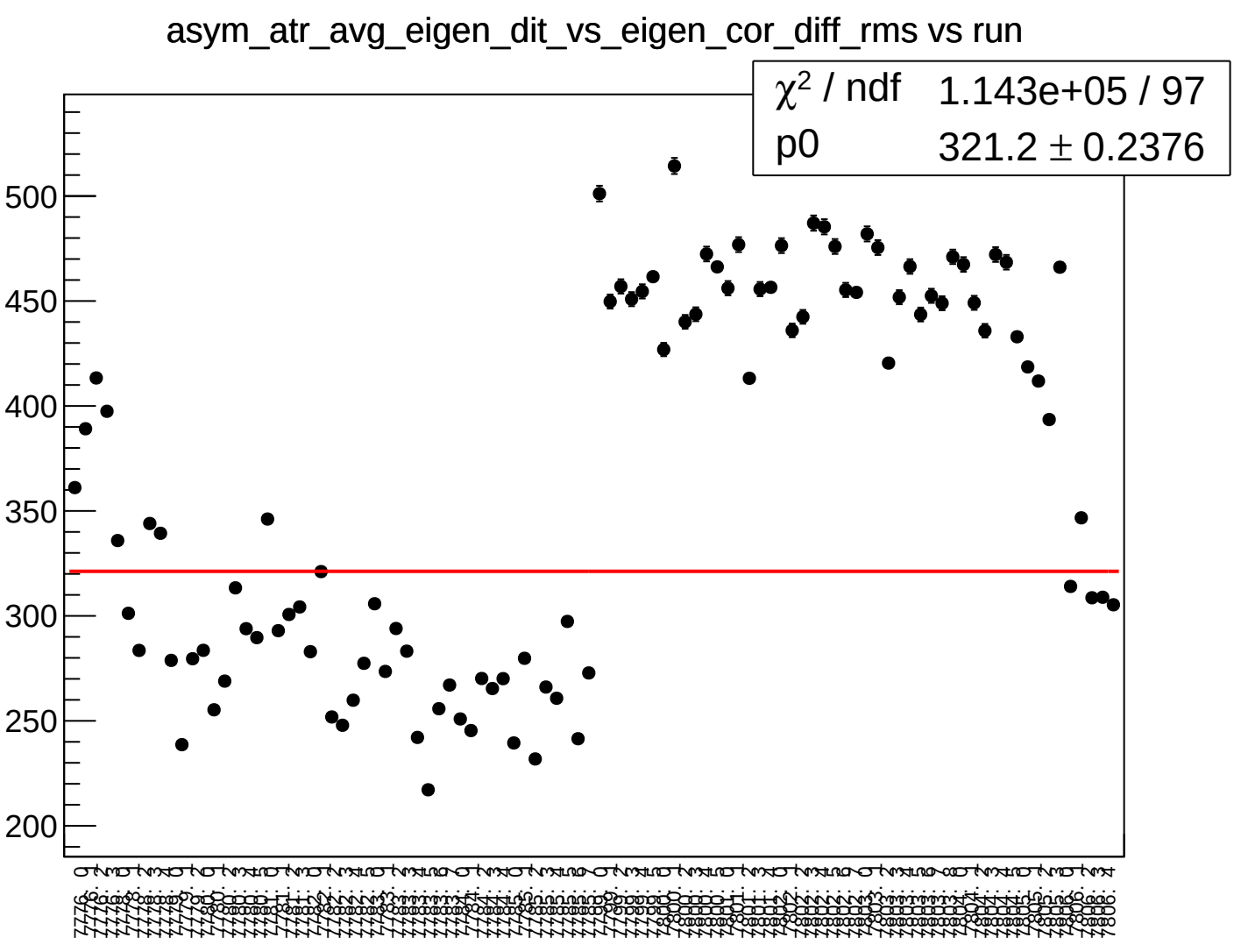

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.9 / 97
p0 −0.2879 ± 0.336
pull
Entries 98
Mean 549.7
Std Dev 0

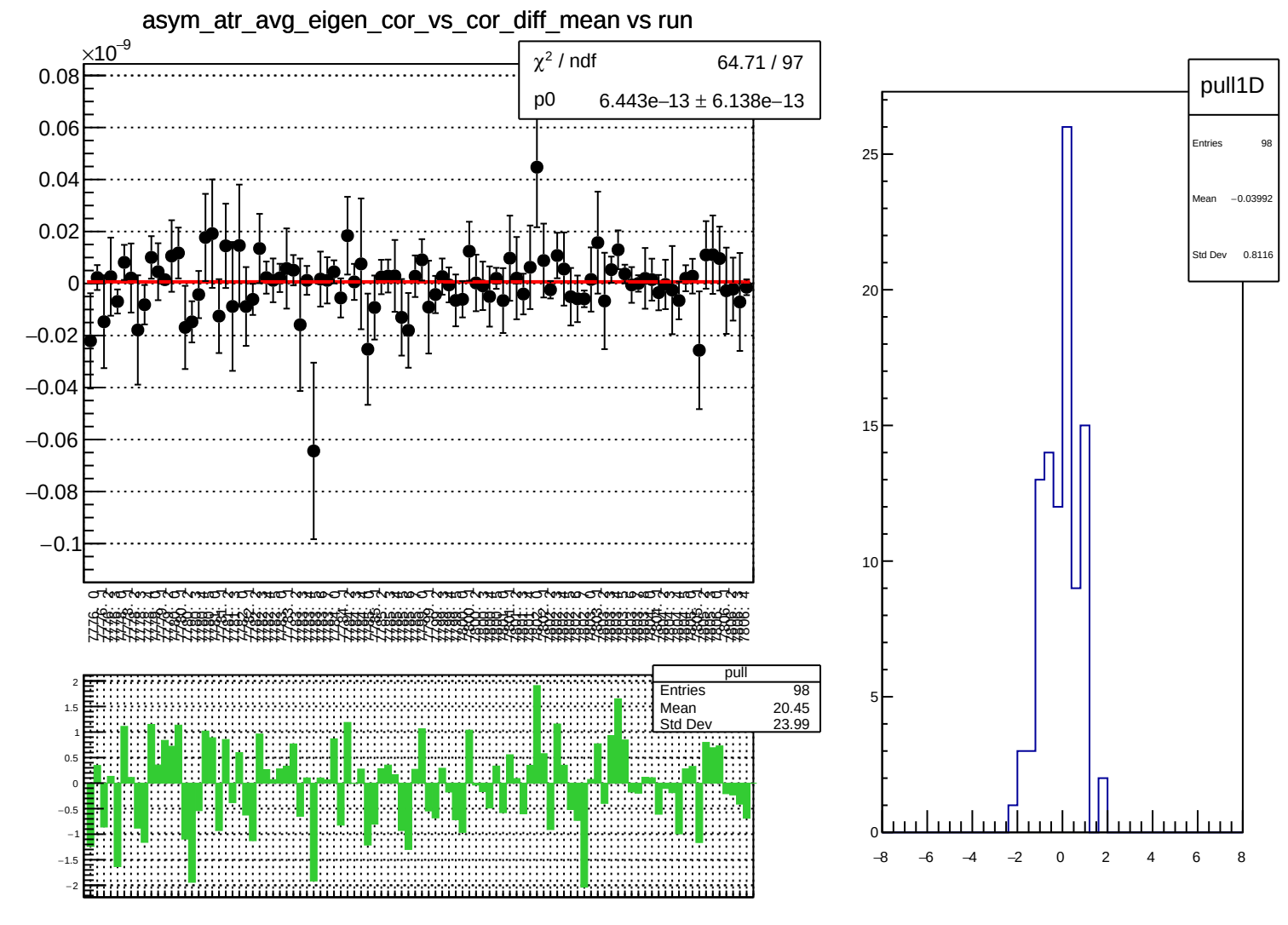

pull1D
Entries 98
Mean 0.01357
Std Dev 0.88

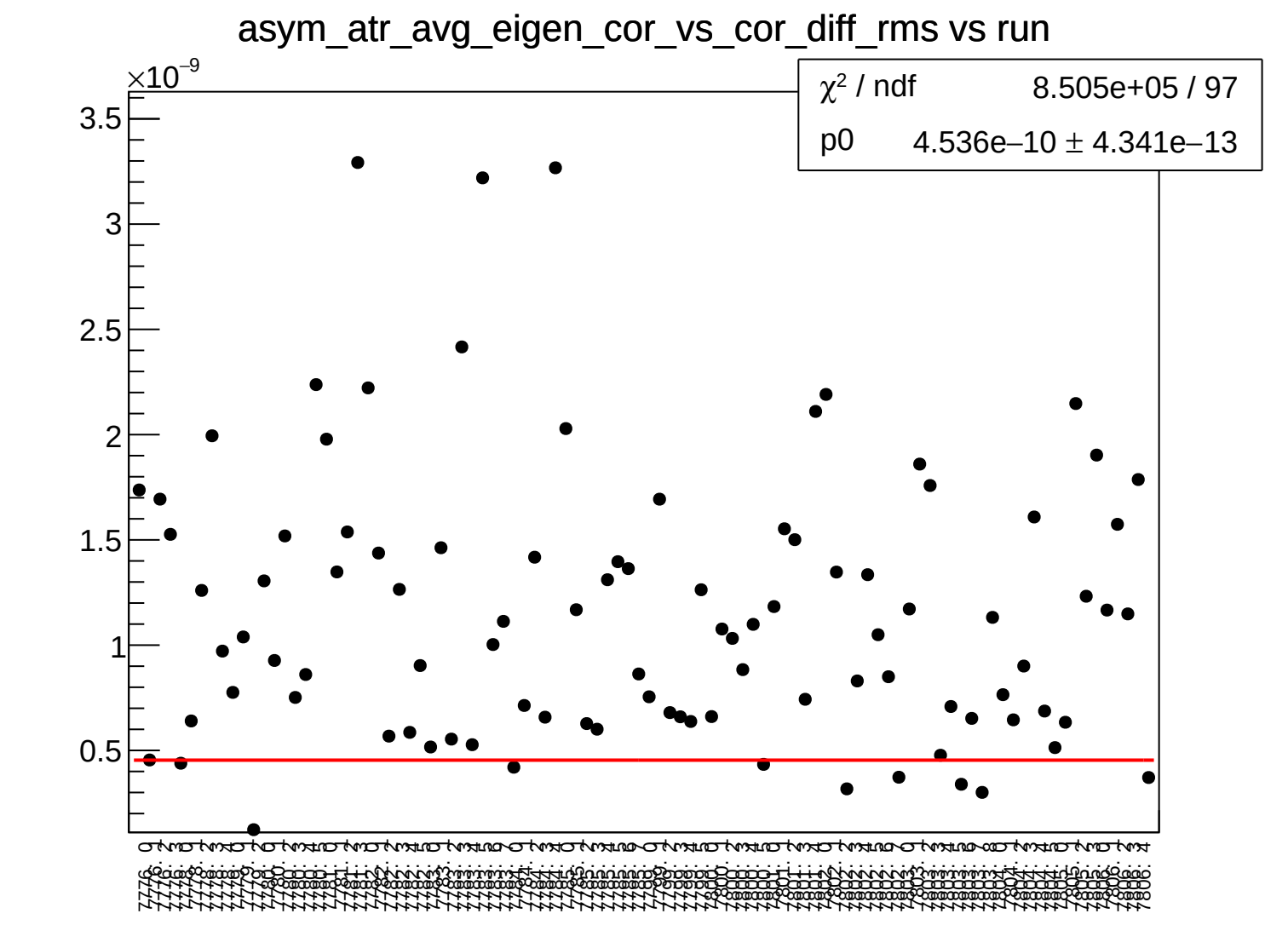

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.143e+05 / 97
p0 321.2 ± 0.2376
500
450
400
350
300
250
200

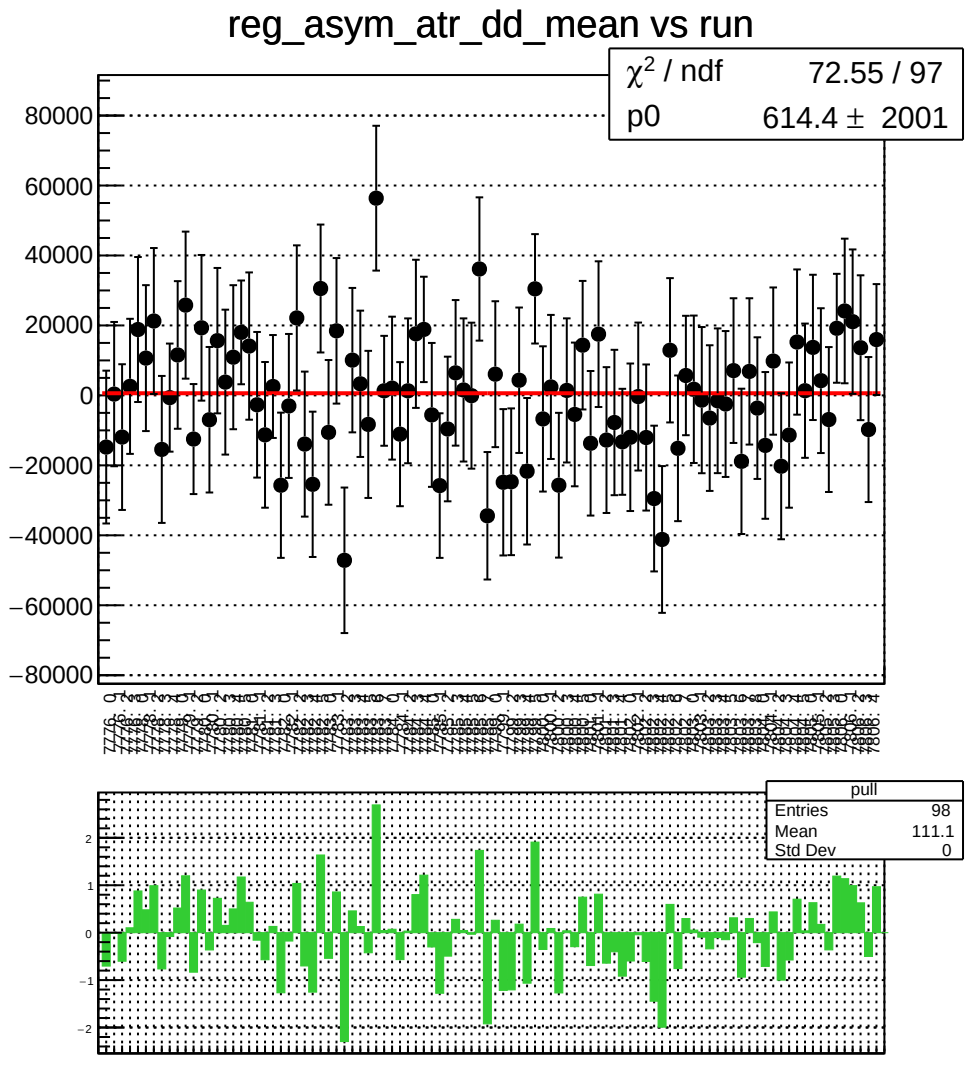

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.9 / 97
p0 −0.2879 ± 0.336
pull
Entries 98
Mean 549.7
Std Dev 0

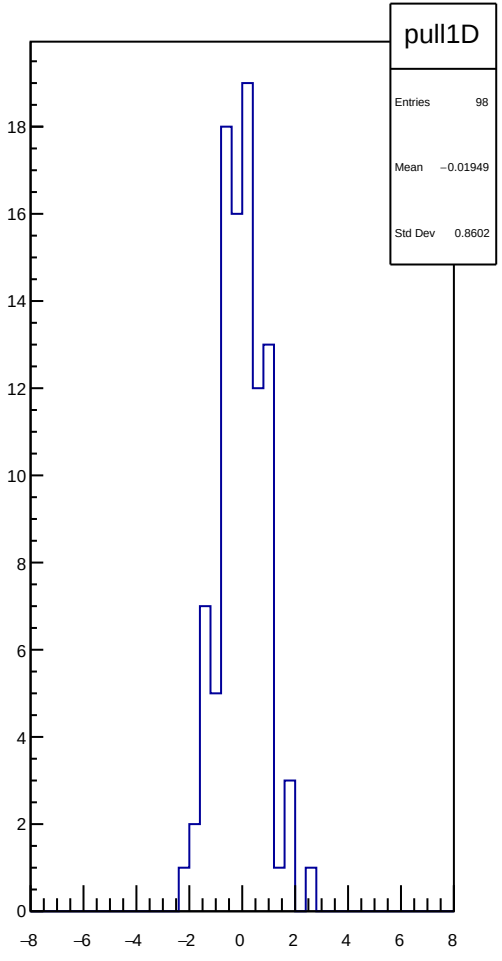

pull1D
Entries 98
Mean 0.01357
Std Dev 0.88

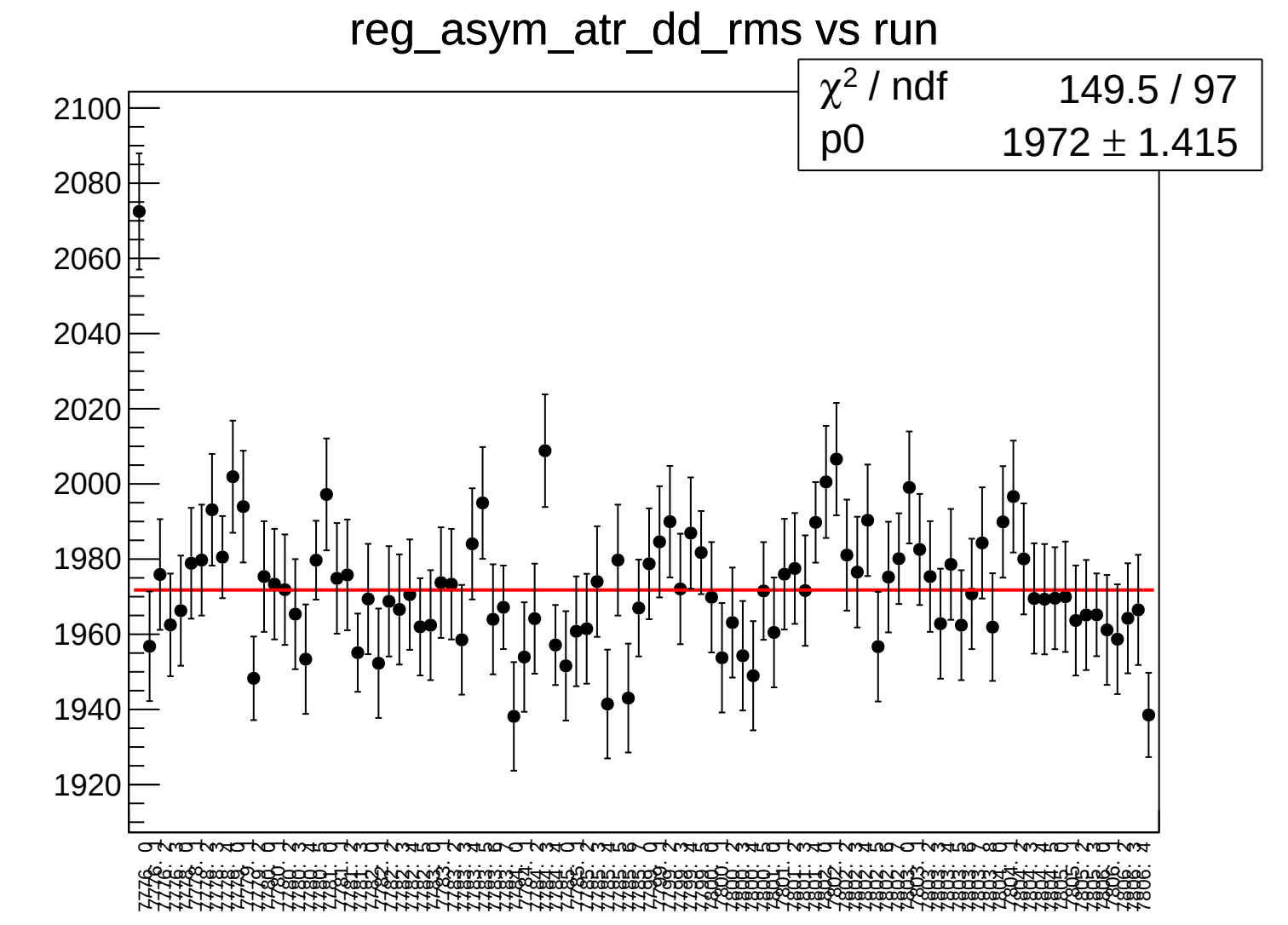

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.143e+05 / 97
p0 321.2 ± 0.2376
500
450
400
350
300
250
200

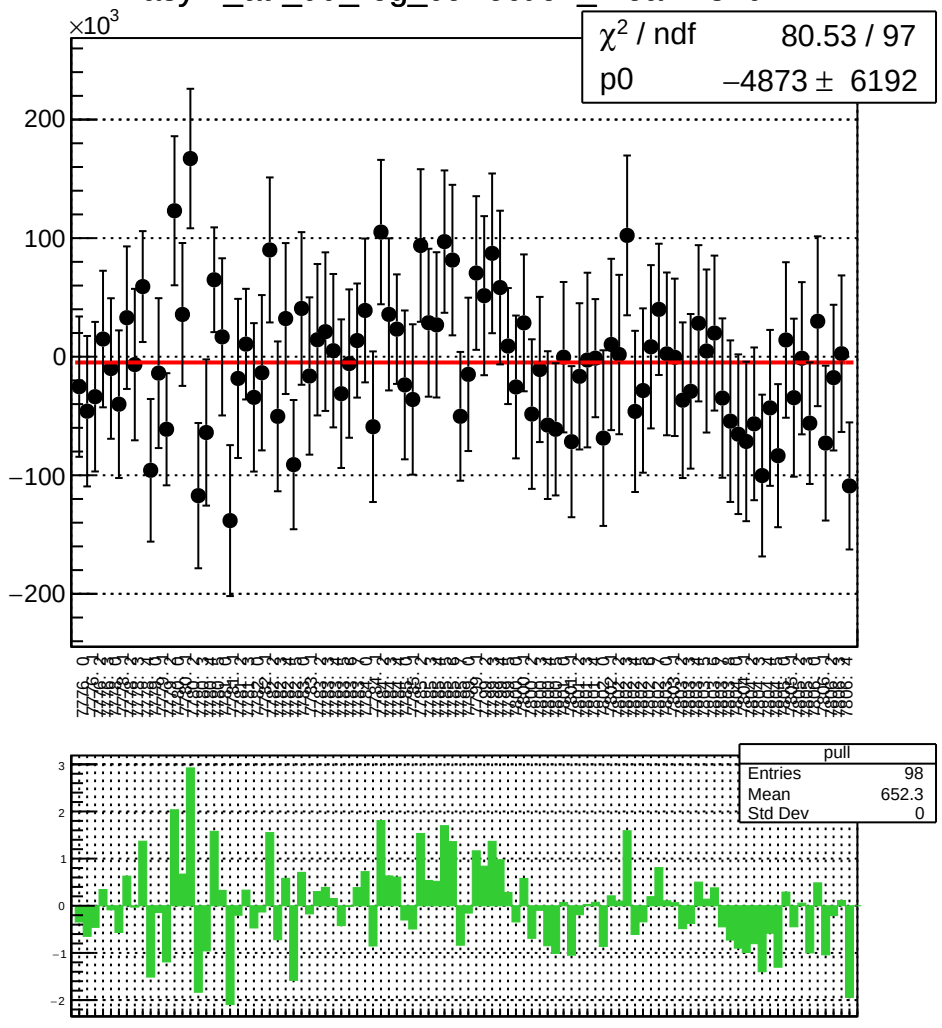

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 64.71 / 97
p0 6.443e−13 ± 6.138e−13
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 98
Mean 20.45
Std Dev 23.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.03992
Std Dev 0.8116
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

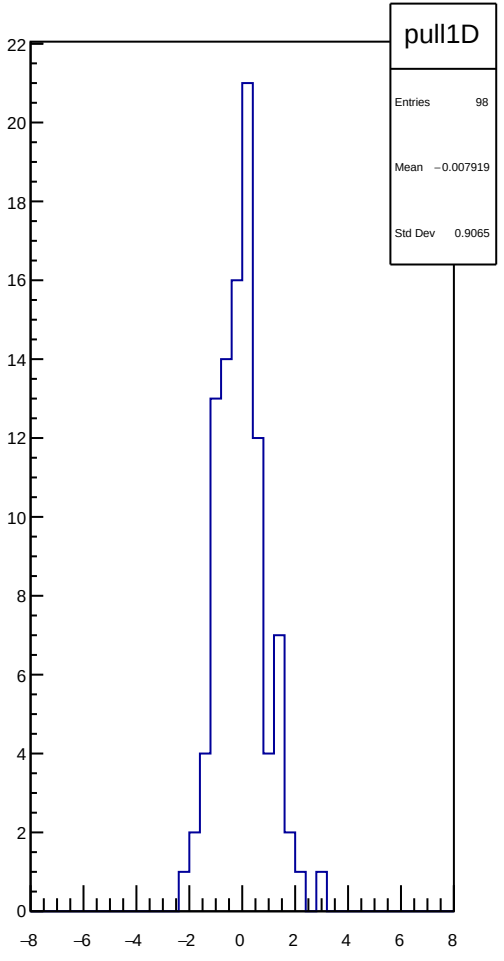

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.505e+05 / 97
p0 4.536e−10 ± 4.341e−13
3.5
3
2.5
2
1.5
1
0.5

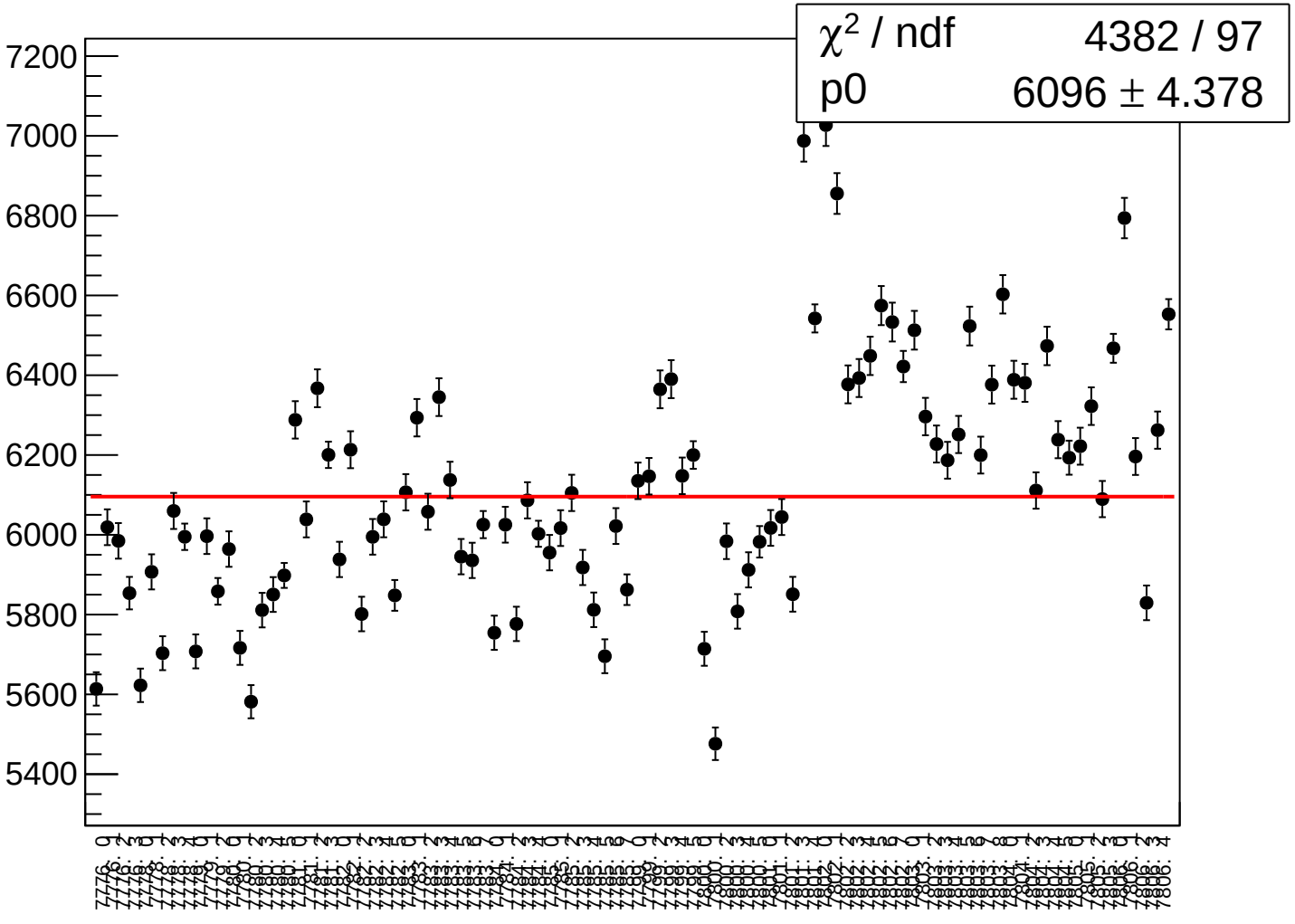

reg_asym_atr_dd_mean vs run
χ² / ndf 72.55 / 97
p0 614.4 ± 2001
pull
Entries 98
Mean 111.1
Std Dev 0

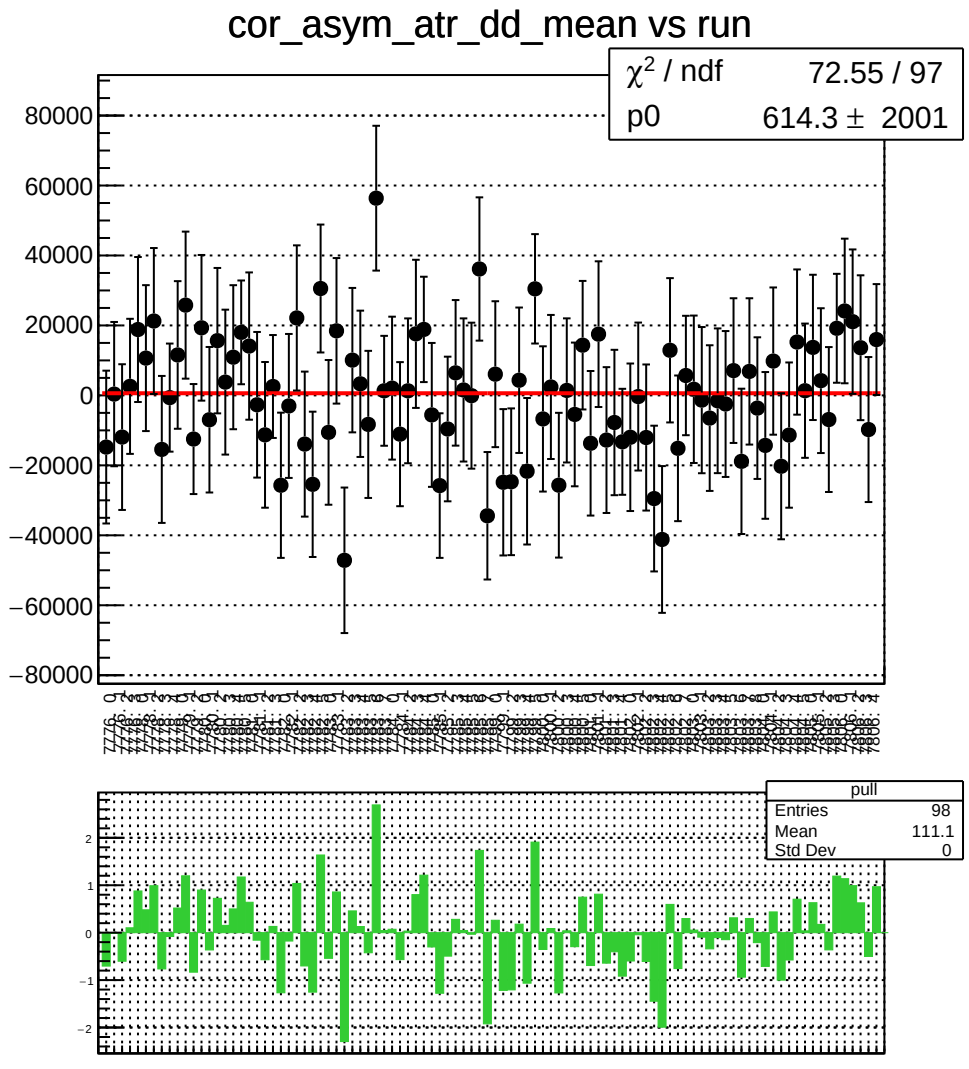

pull1D
Entries 98
Mean −0.01949
Std Dev 0.8602

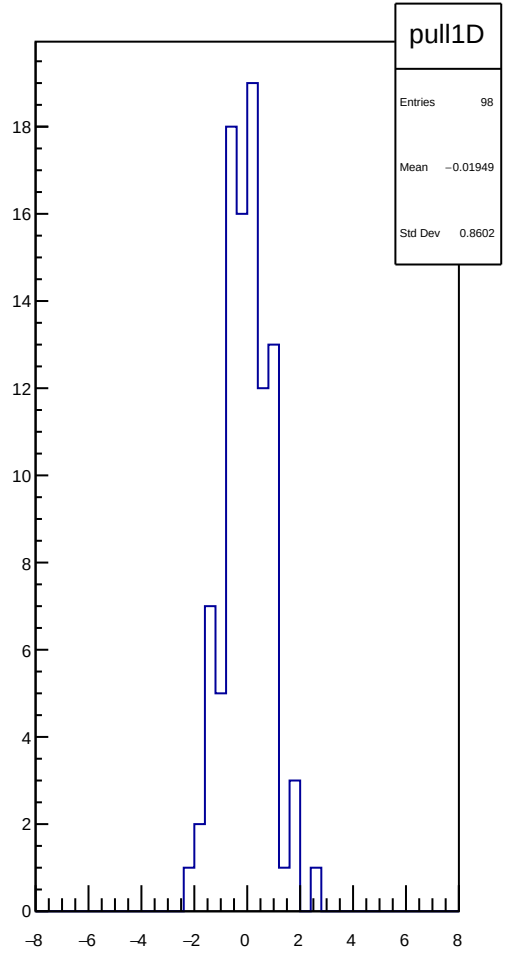

reg_asym_atr_dd_rms vs run
χ^2 / ndf 149.5 / 97
p0 1972 ± 1.415
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

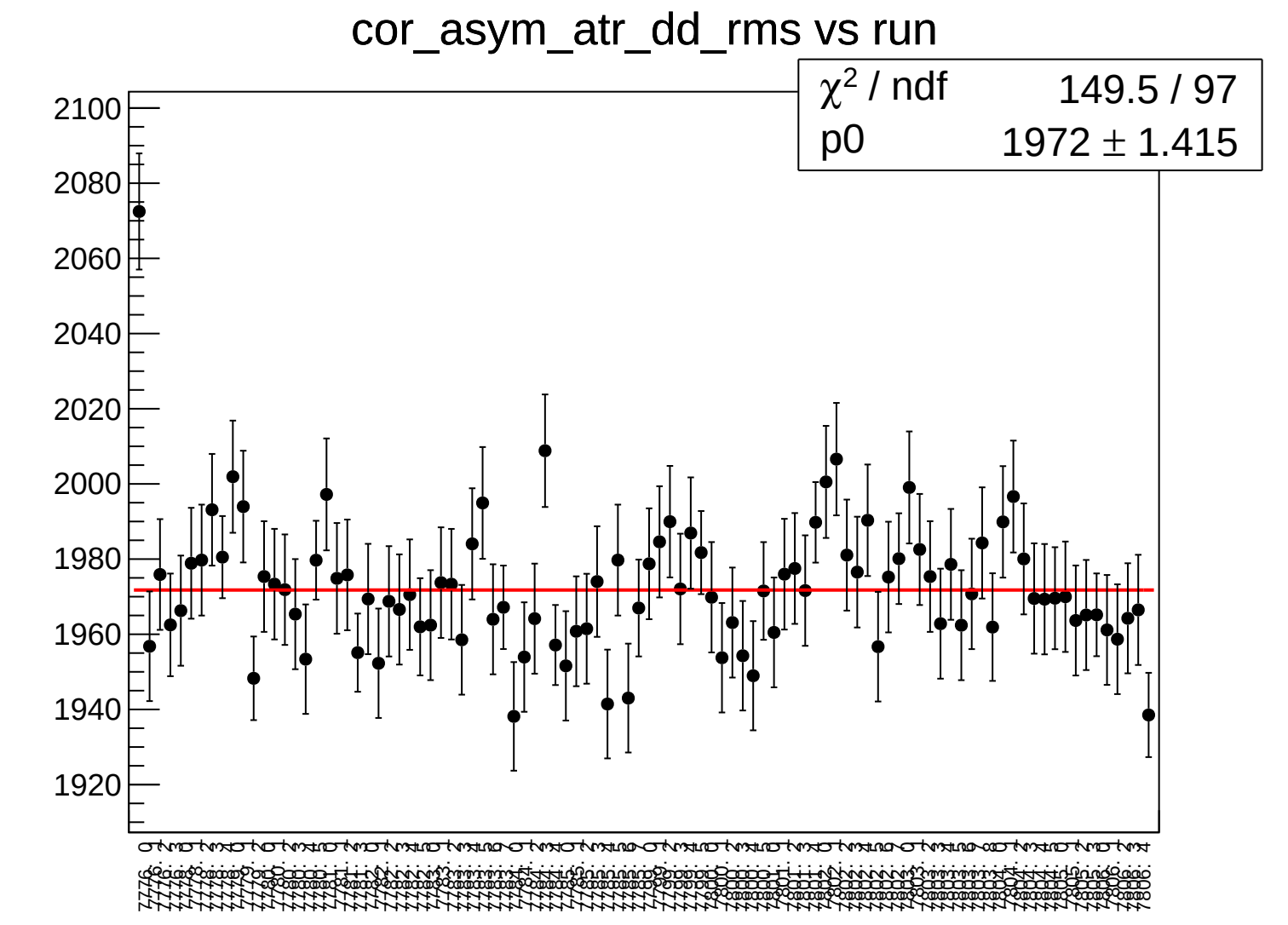

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 80.53 / 97
p0 −4873 ± 6192
200
100
0
−100
−200
pull
Entries 98
Mean 652.3
Std Dev 0
3
2
1
0
−1
−2

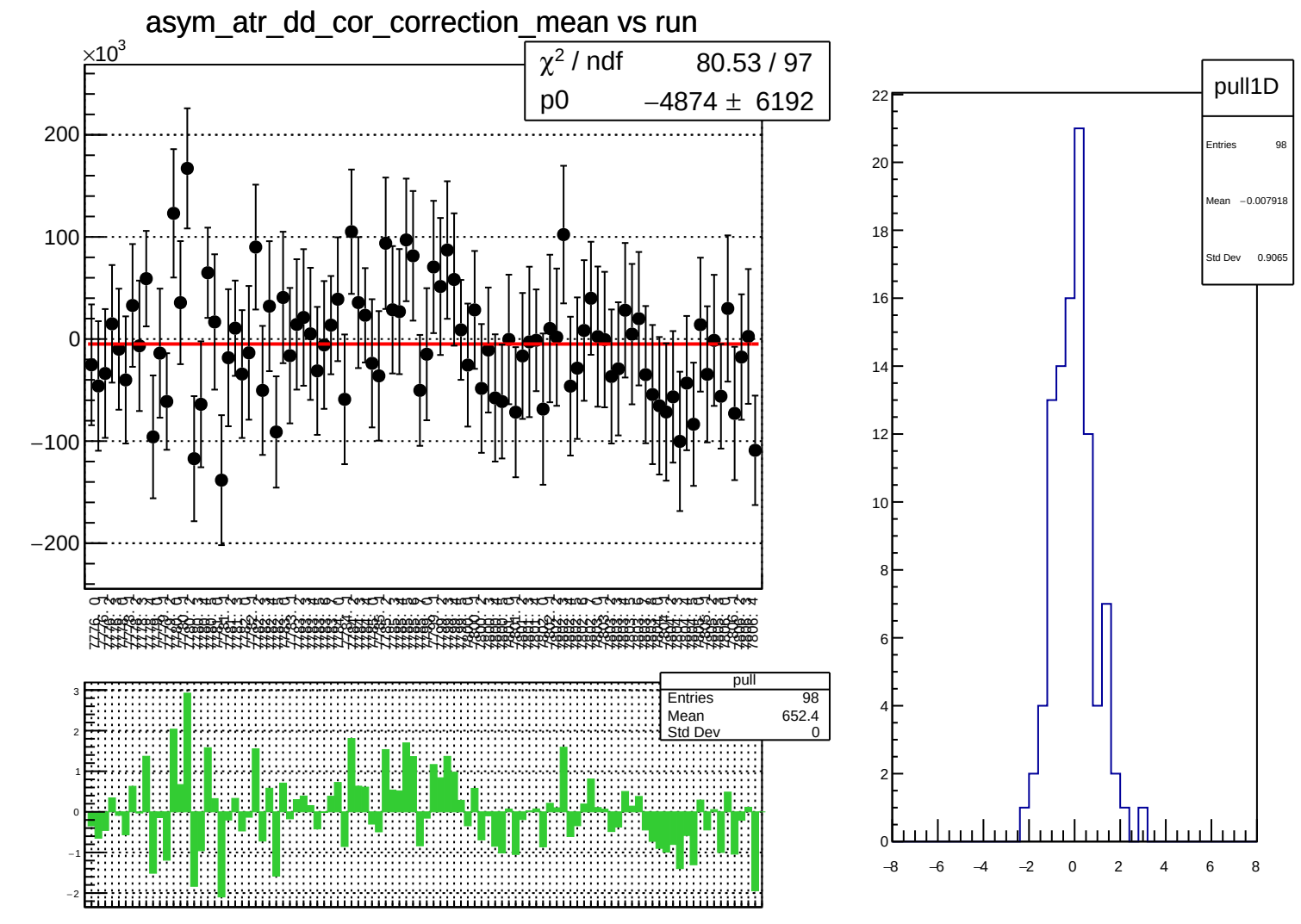

pull1D
Entries 98
Mean −0.007919
Std Dev 0.9065
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

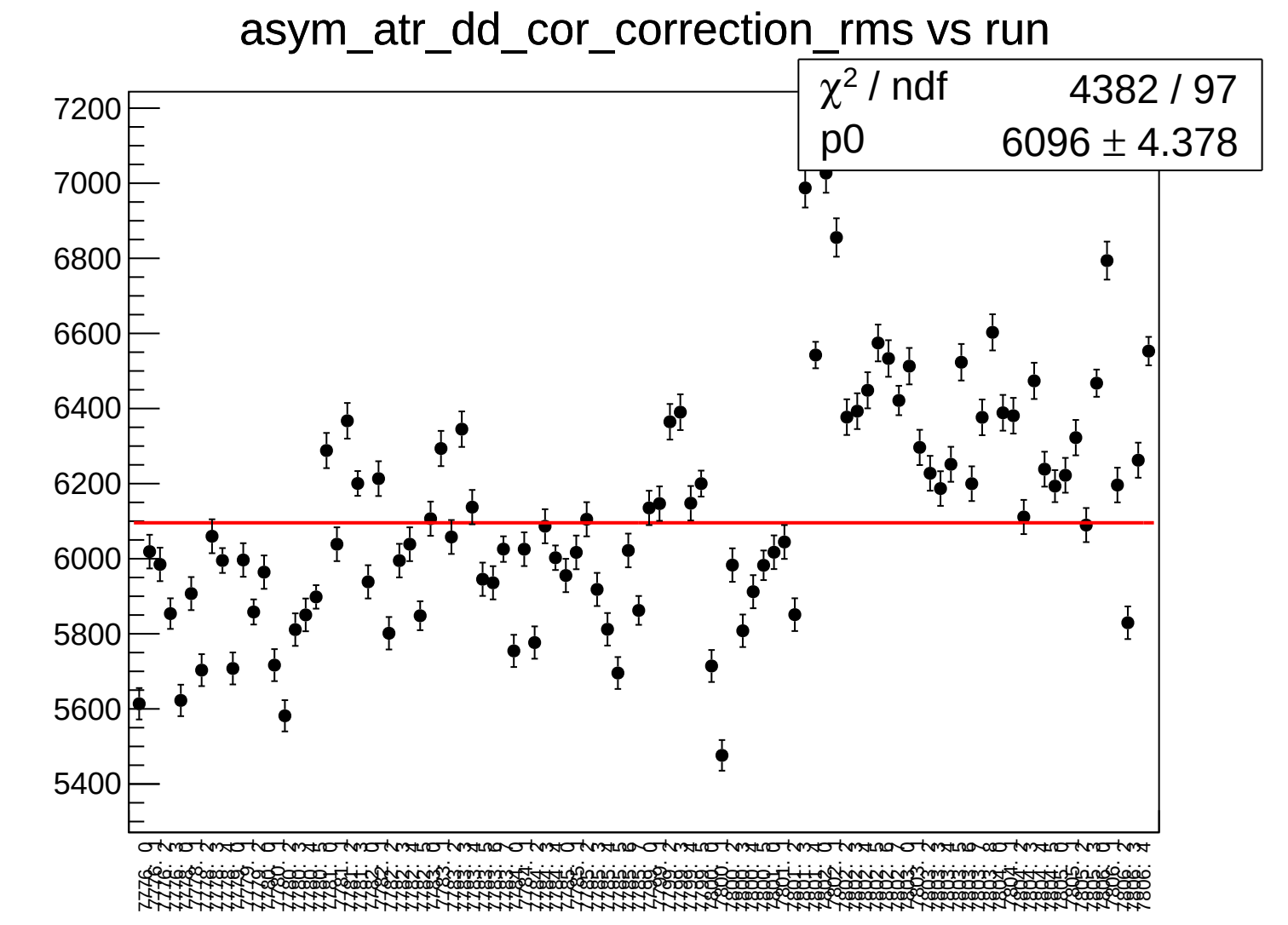

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 4382 / 97
p0 6096 ± 4.378
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

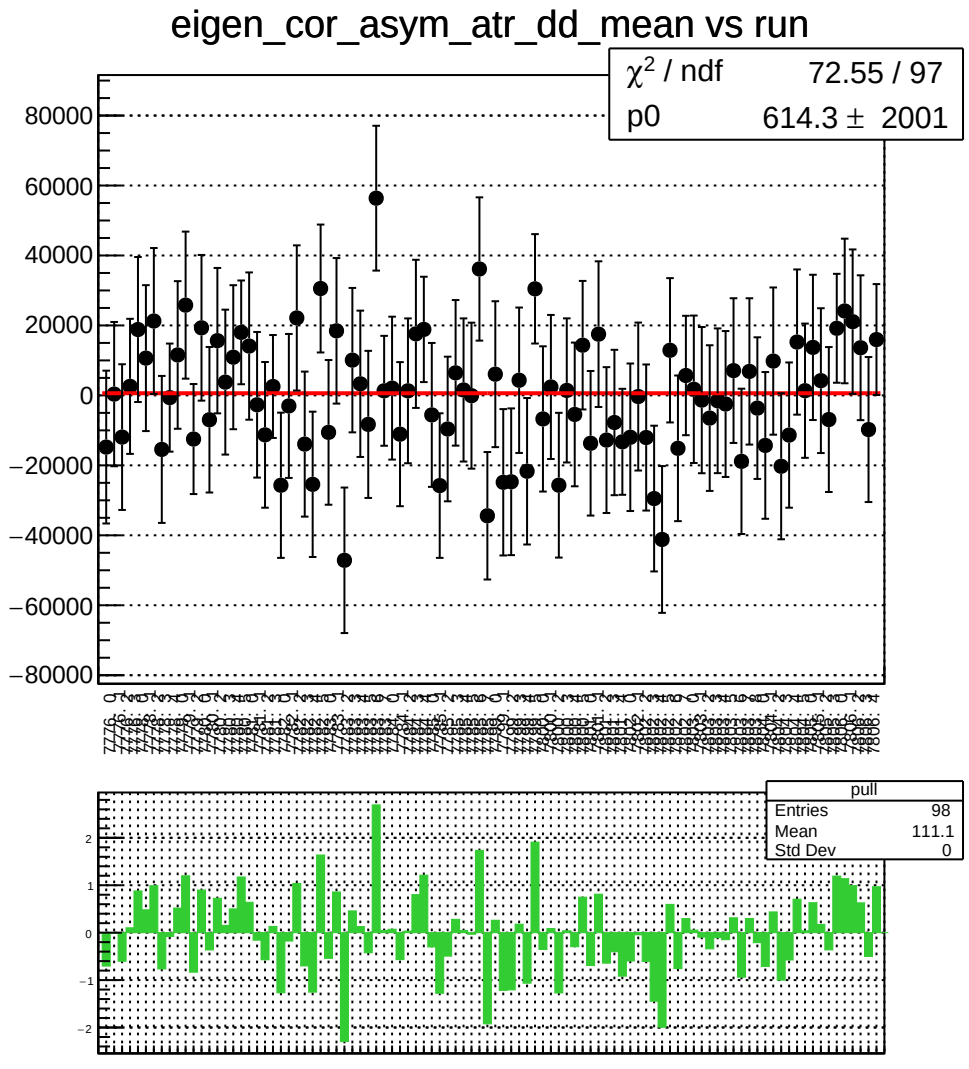

cor_asym_atr_dd_mean vs run
χ² / ndf 72.55 / 97
p0 614.3 ± 2001
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 111.1
Std Dev 0
2
1
0
−1
−2

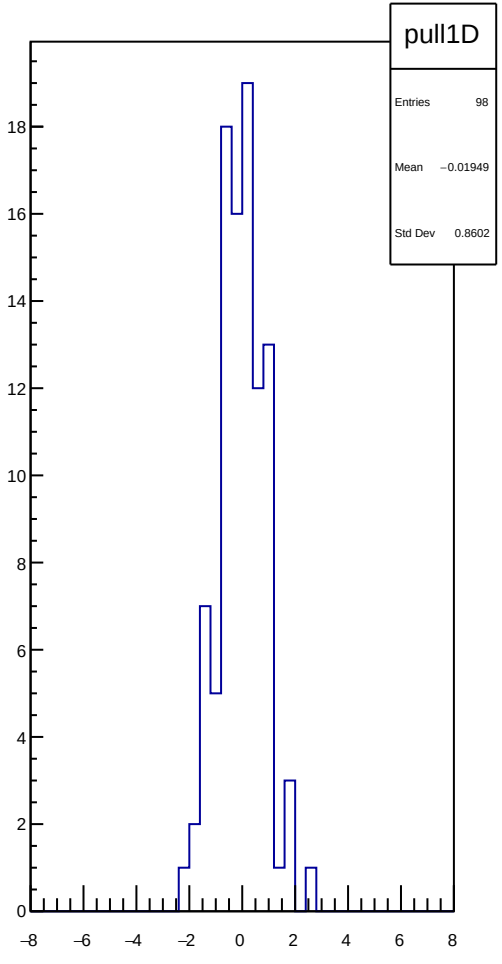

pull1D
Entries 98
Mean −0.01949
Std Dev 0.8602
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

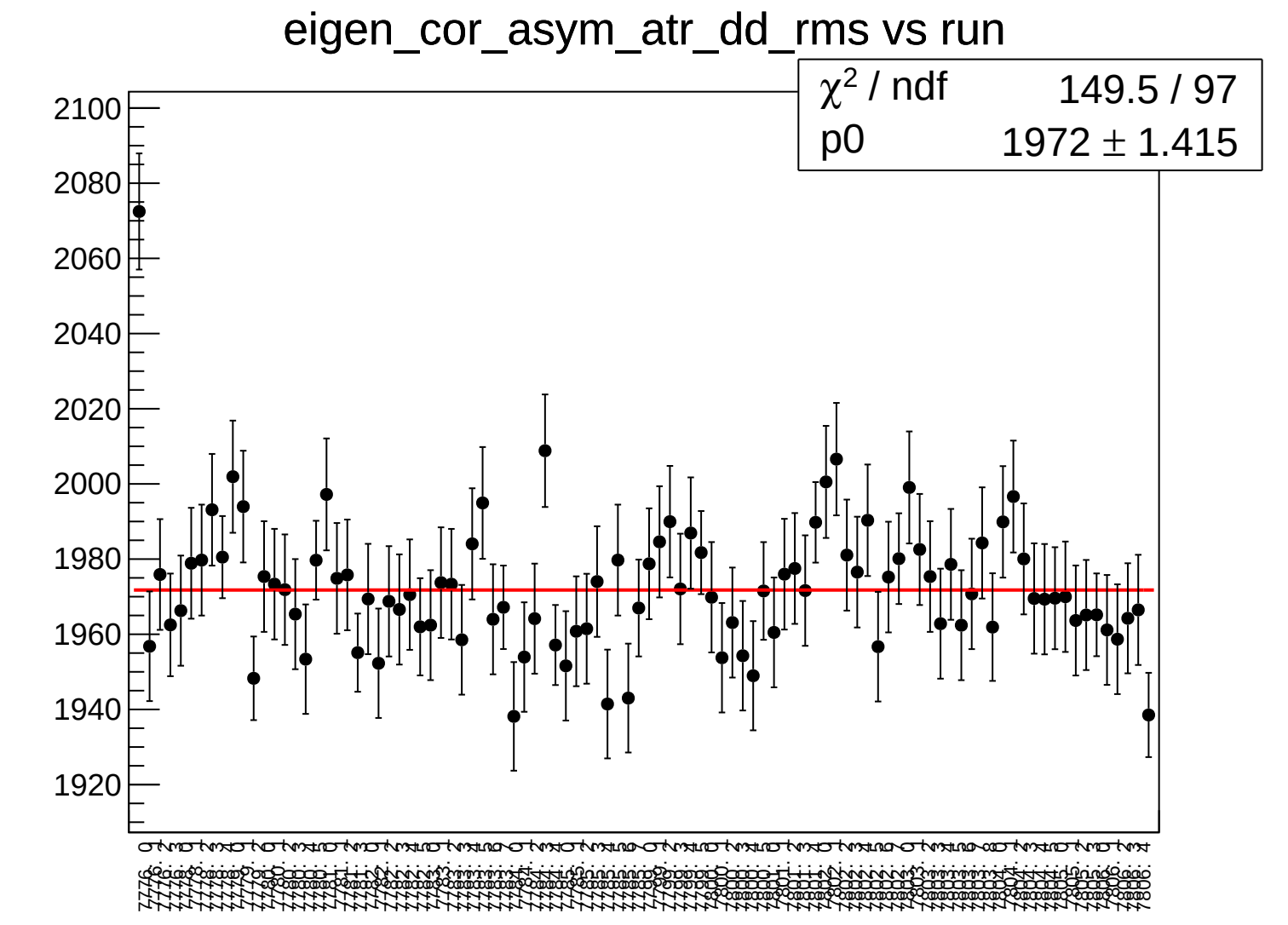

cor_asym_atr_dd_rms vs run
χ² / ndf 149.5 / 97
p0 1972 ± 1.415
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

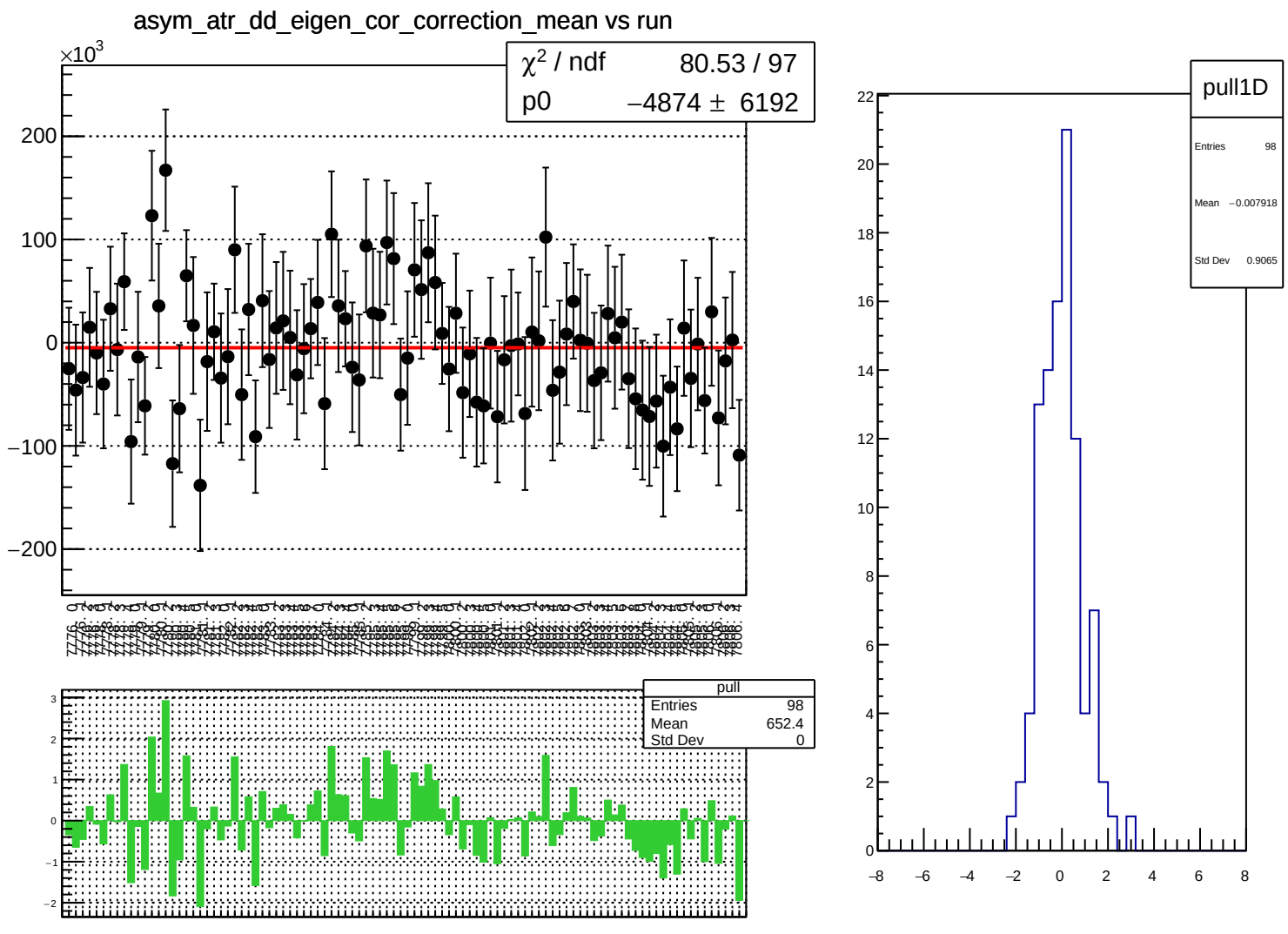

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 80.53 / 97
p0 −4874 ± 6192
200
100
0
−100
−200
pull
Entries 98
Mean 652.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.007918
Std Dev 0.9065
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

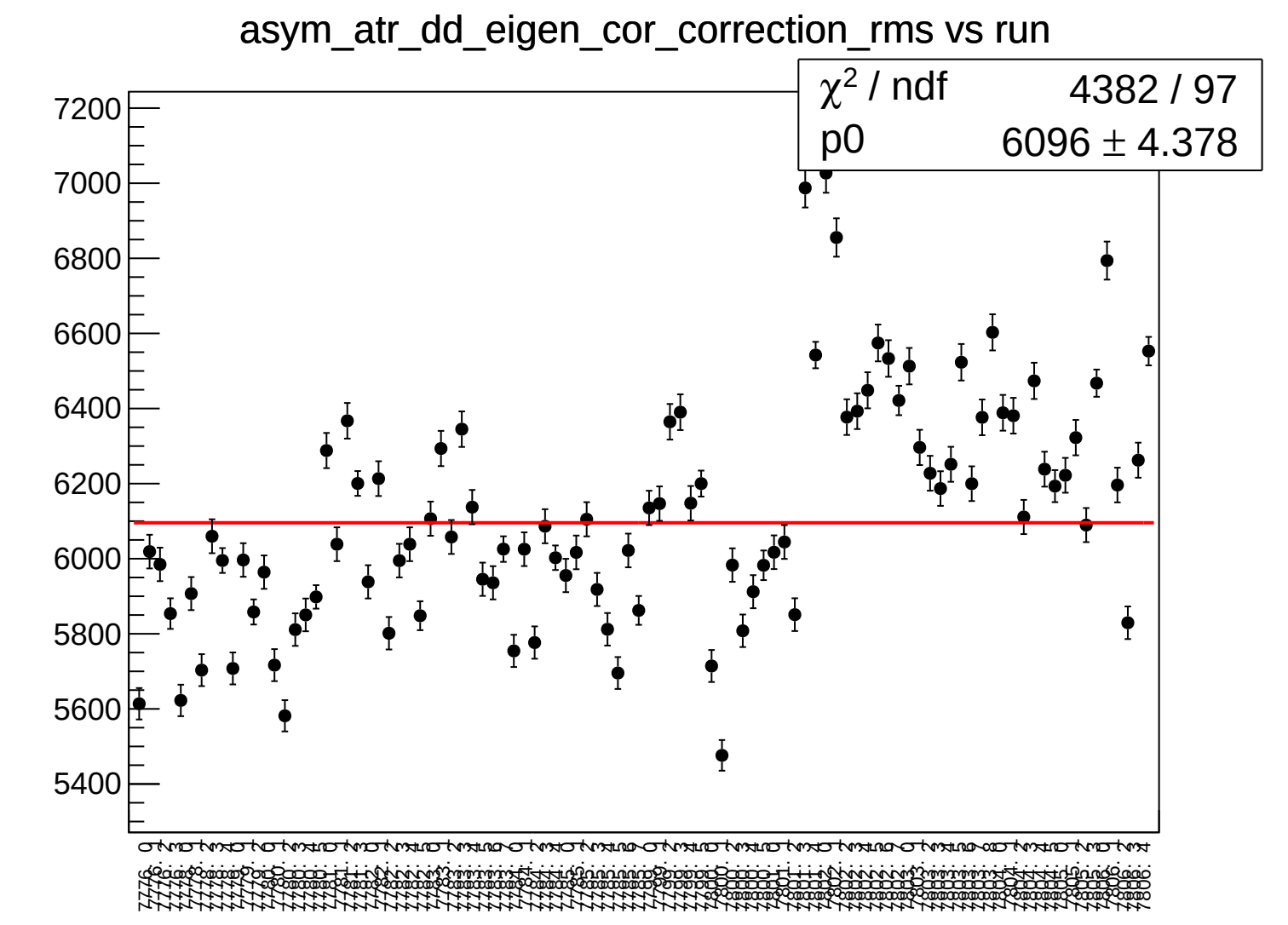

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 4382 / 97
p0 6096 ± 4.378
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

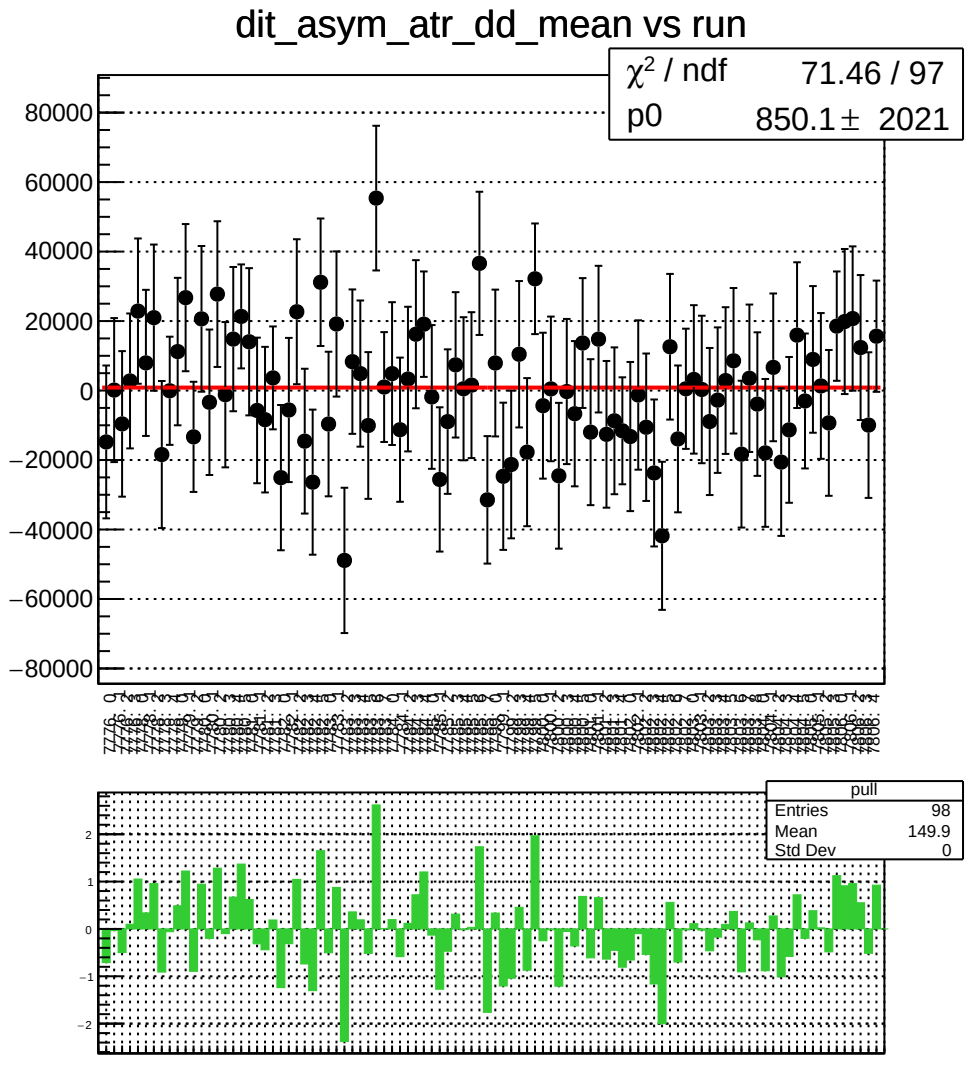

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 72.55 / 97
p0 614.3 ± 2001
pull
Entries 98
Mean 111.1
Std Dev 0

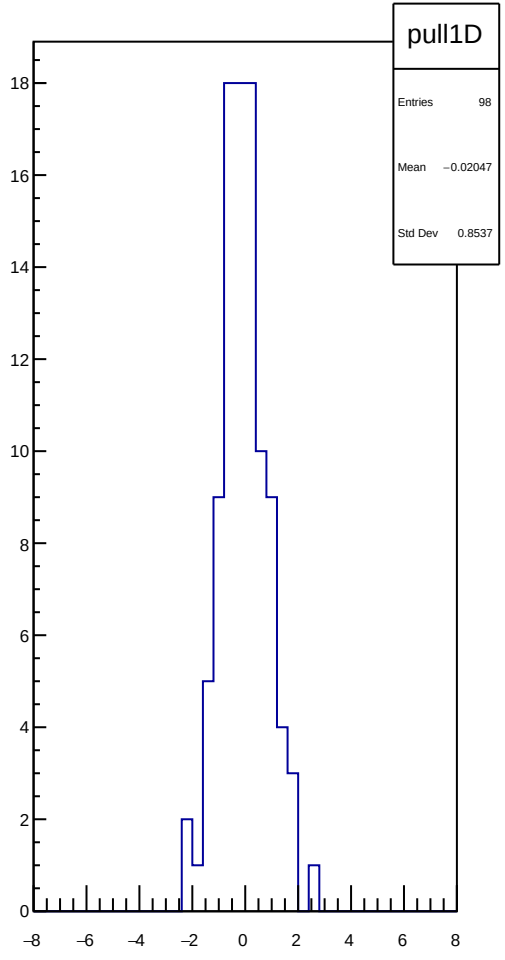

pull1D
Entries 98
Mean −0.01949
Std Dev 0.8602

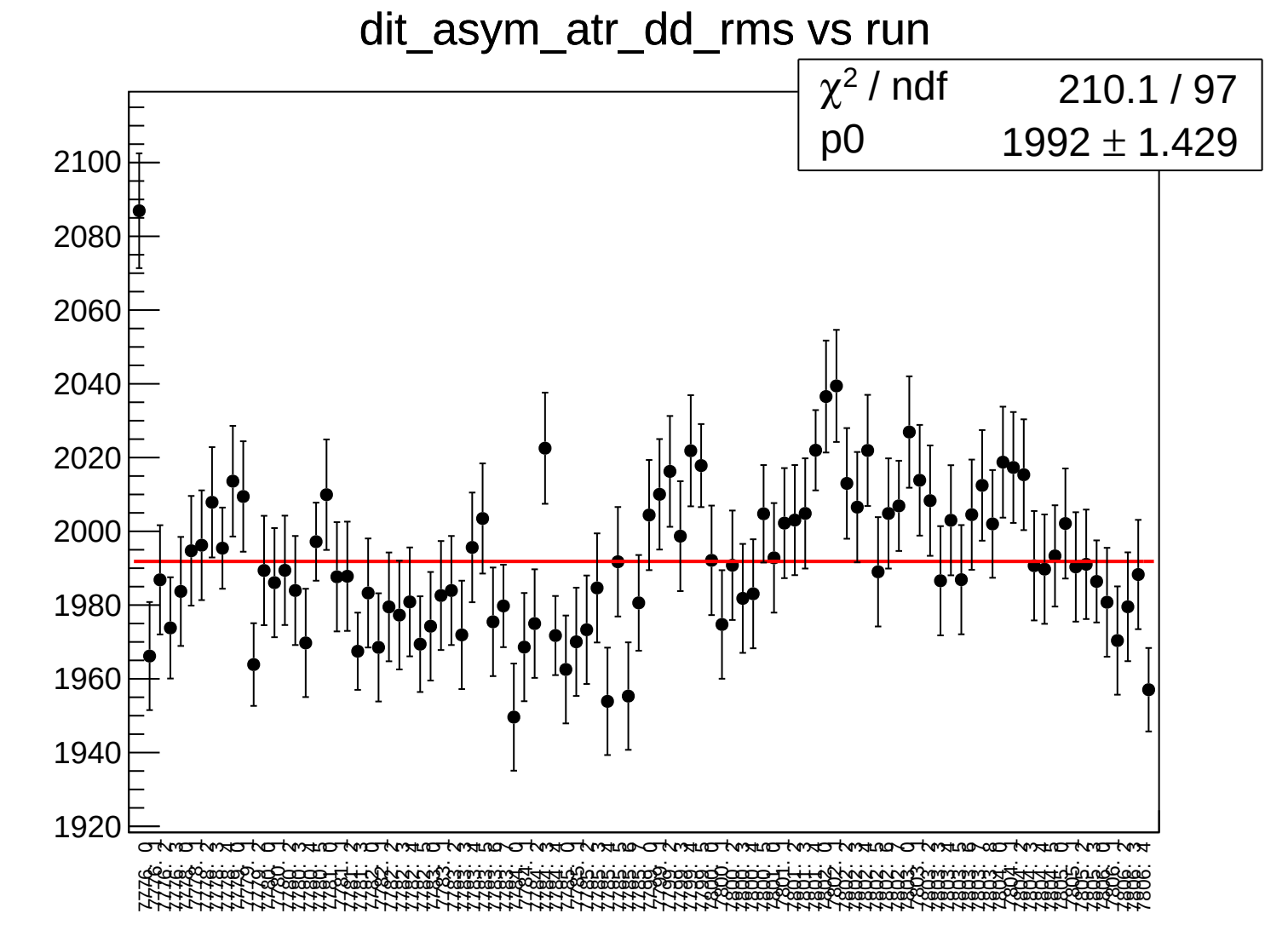

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 149.5 / 97
p0 1972 ± 1.415
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

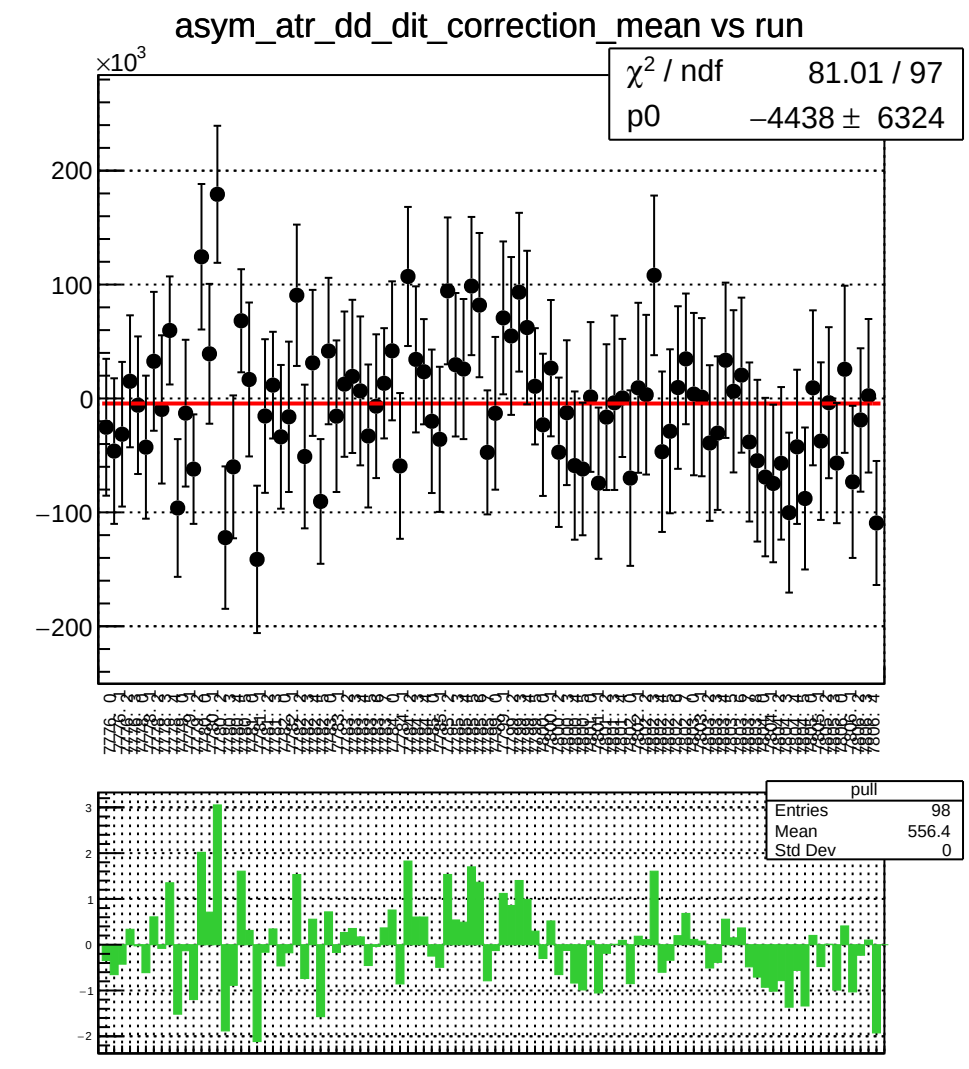

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 80.53 / 97
p0 −4874 ± 6192
200
100
0
−100
−200
pull
Entries 98
Mean 652.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.007918
Std Dev 0.9065
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

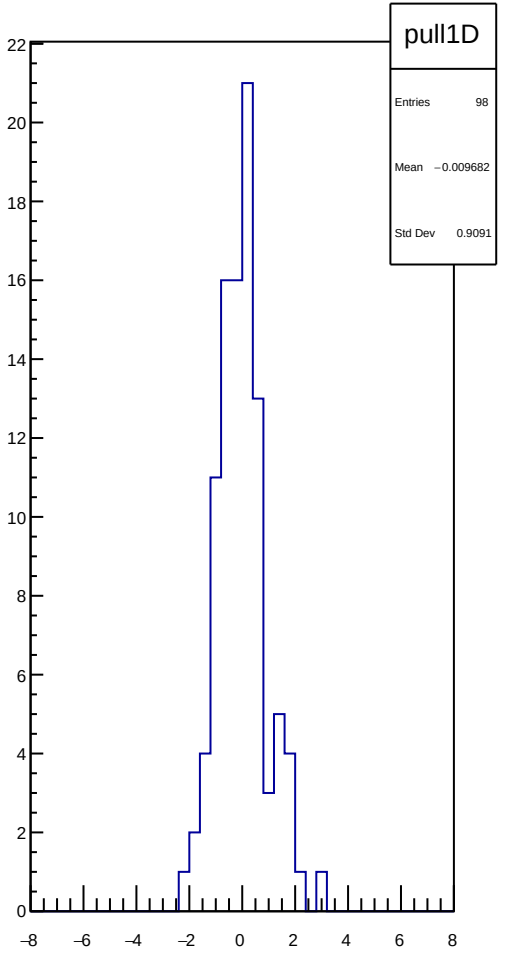

asym_atr_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 4382 / 97
p0 6096 ± 4.378
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

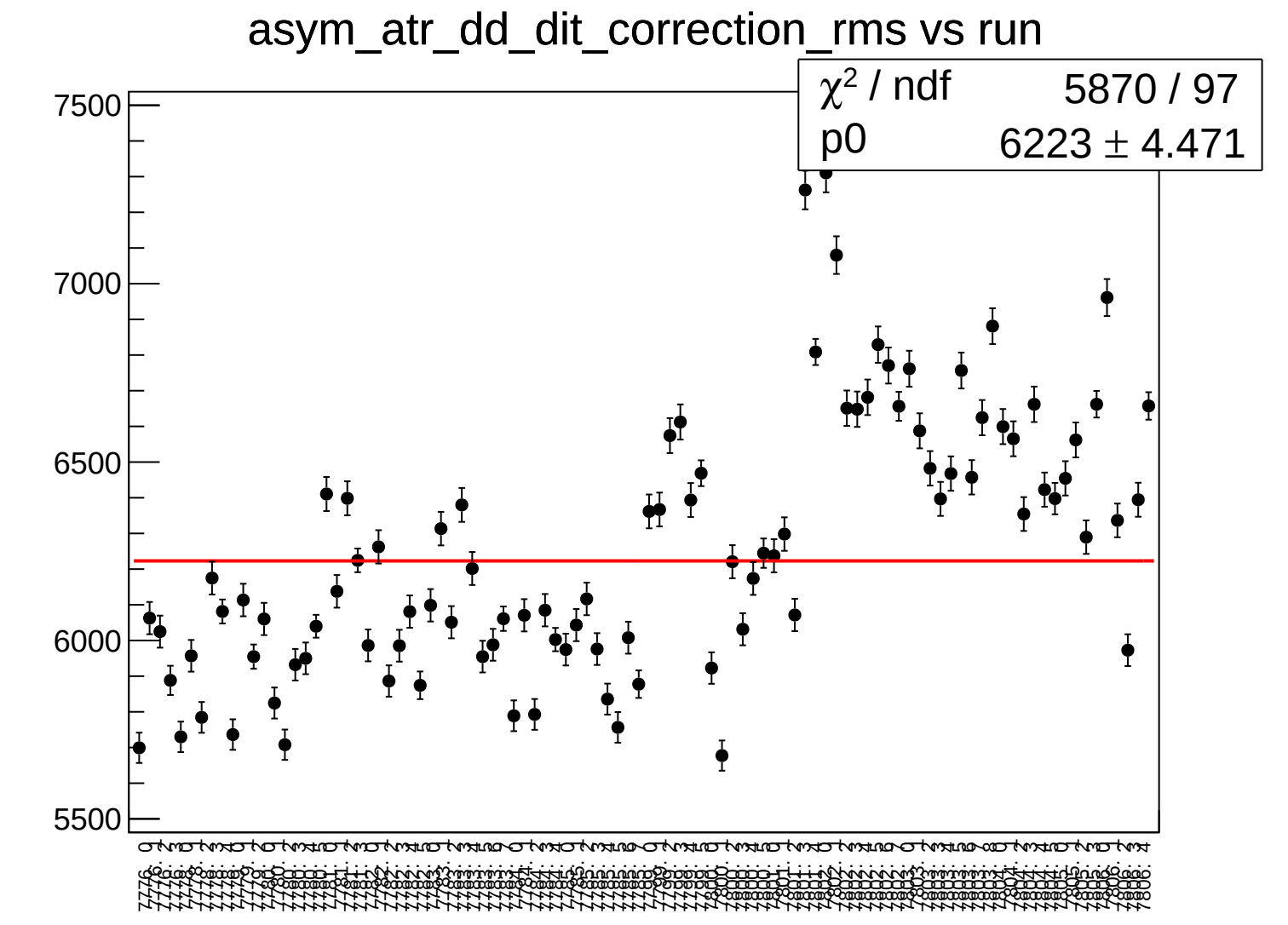

dit_asym_atr_dd_mean vs run
χ² / ndf 71.46 / 97
p0 850.1 ± 2021
pull
Entries 98
Mean 149.9
Std Dev 0

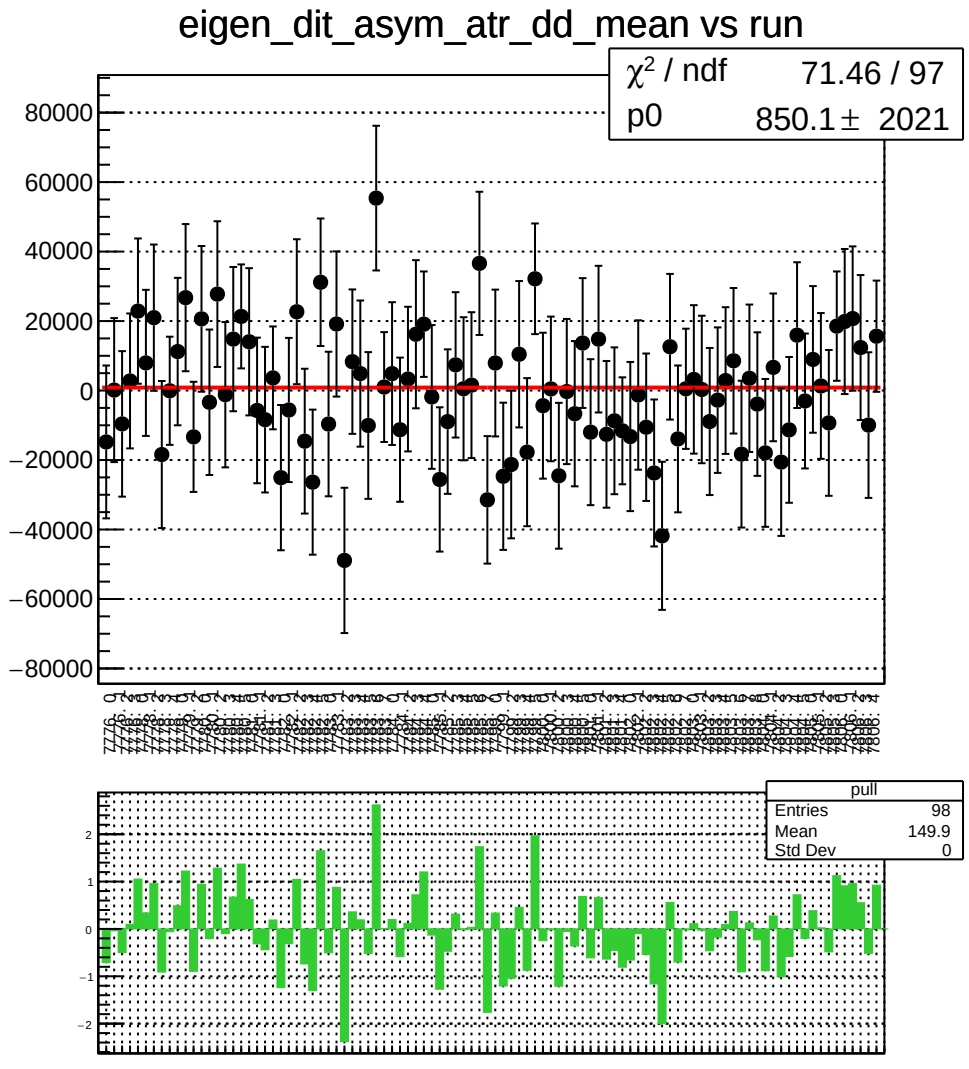

pull1D
Entries 98
Mean −0.02047
Std Dev 0.8537

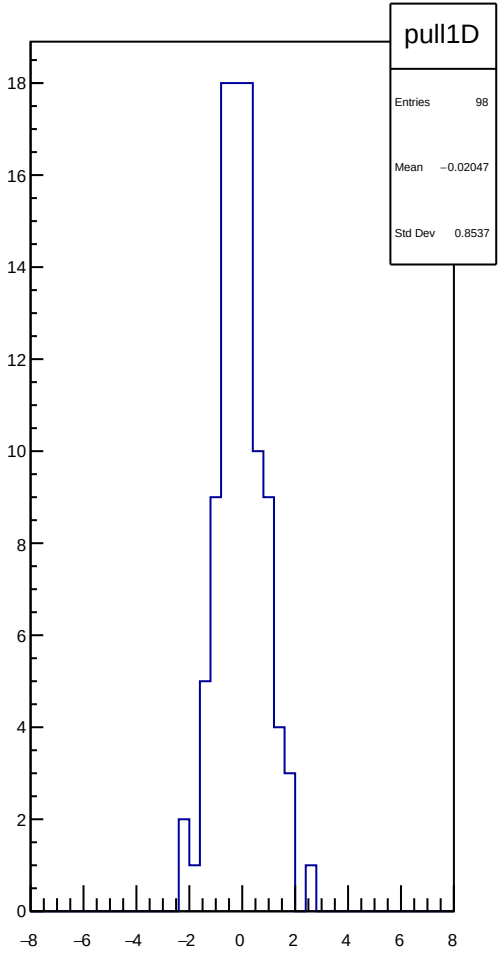

dit_asym_atr_dd_rms vs run
χ² / ndf 210.1 / 97
p0 1992 ± 1.429
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

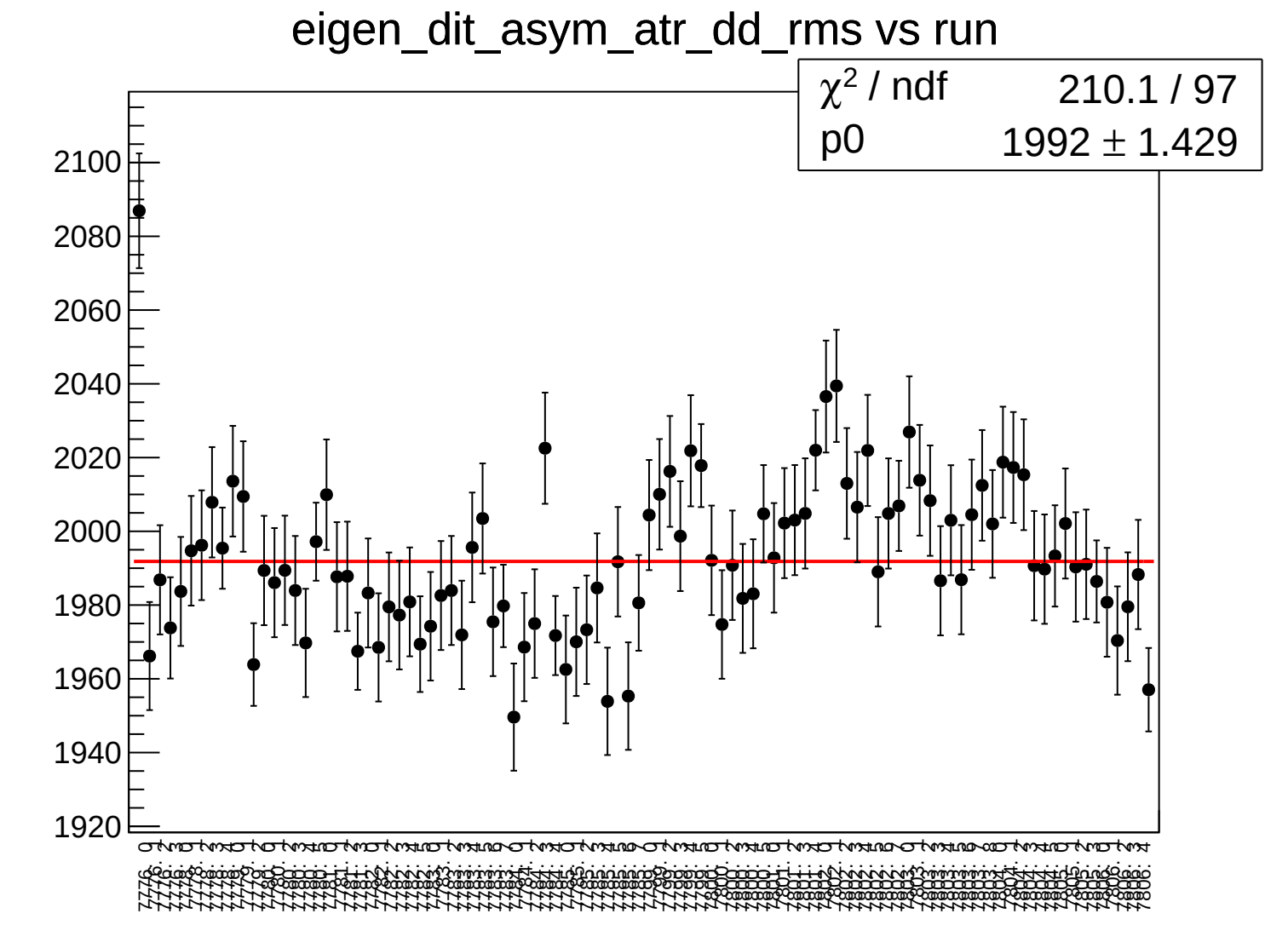

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 81.01 / 97
p0 −4438 ± 6324
200
100
0
−100
−200
pull
Entries 98
Mean 556.4
Std Dev 0
3
2
1
0
−1
−2

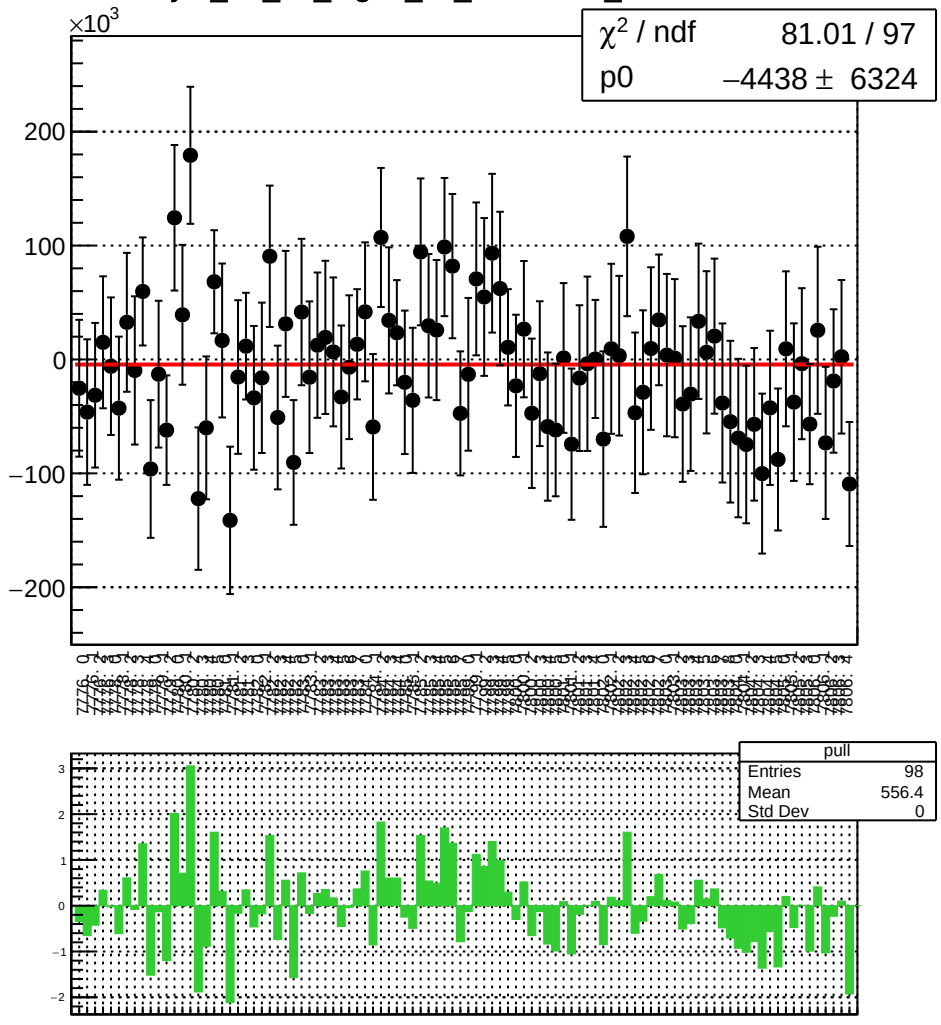

pull1D
Entries 98
Mean −0.009682
Std Dev 0.9091
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

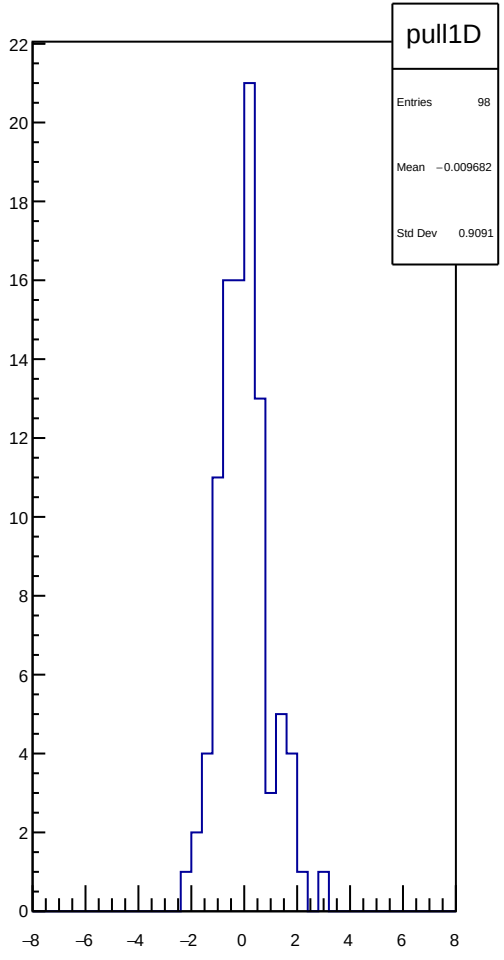

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 5870 / 97
p0 6223 ± 4.471
7500
7000
6500
6000
5500

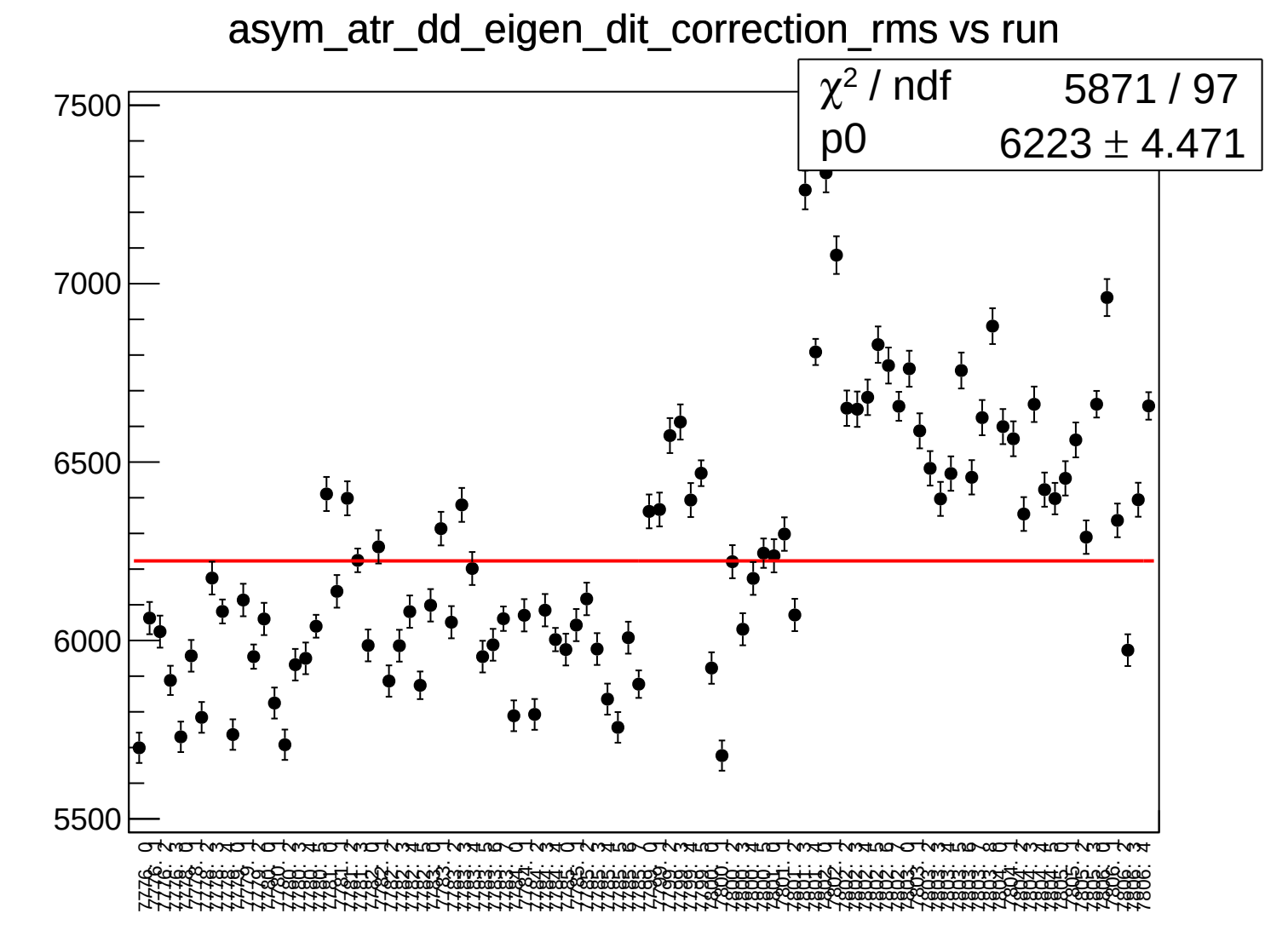

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 71.46 / 97
p0 850.1 ± 2021
pull
Entries 98
Mean 149.9
Std Dev 0

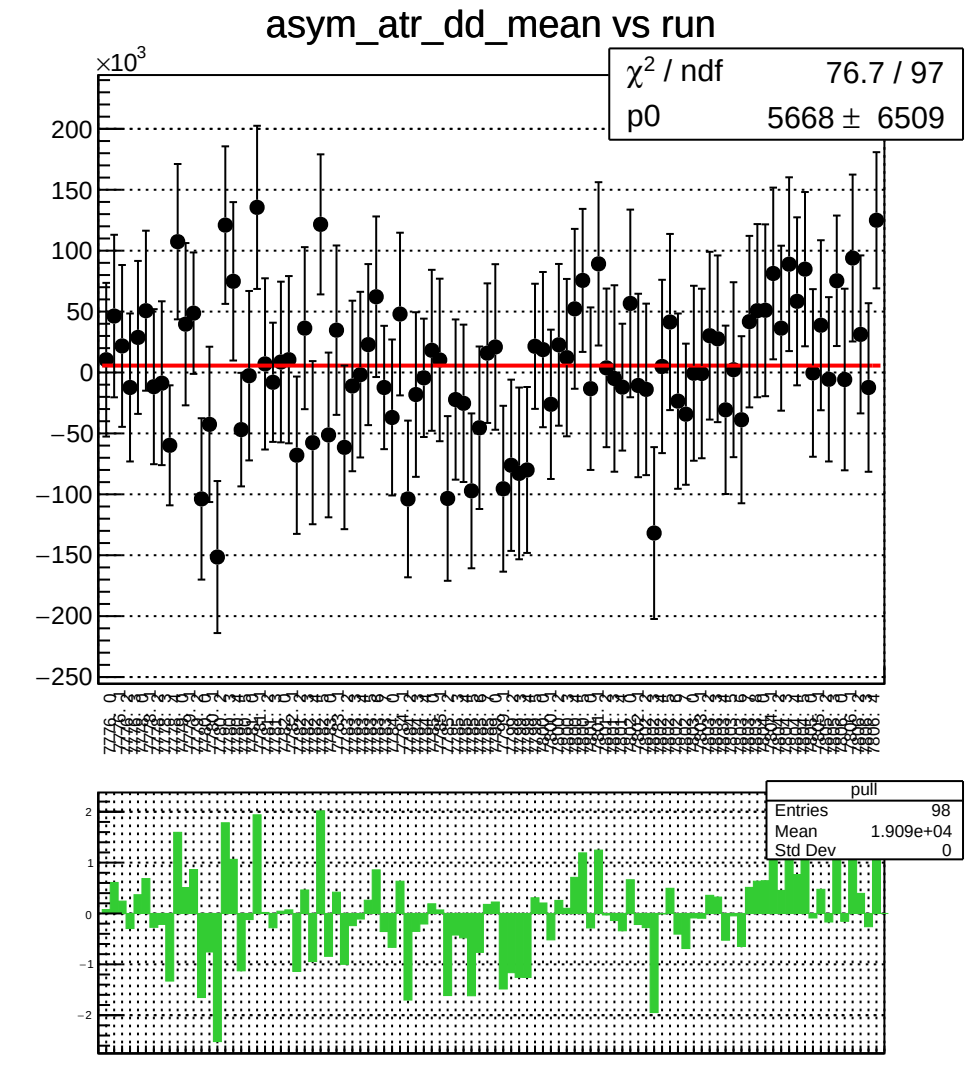

pull1D
Entries 98
Mean −0.02047
Std Dev 0.8537

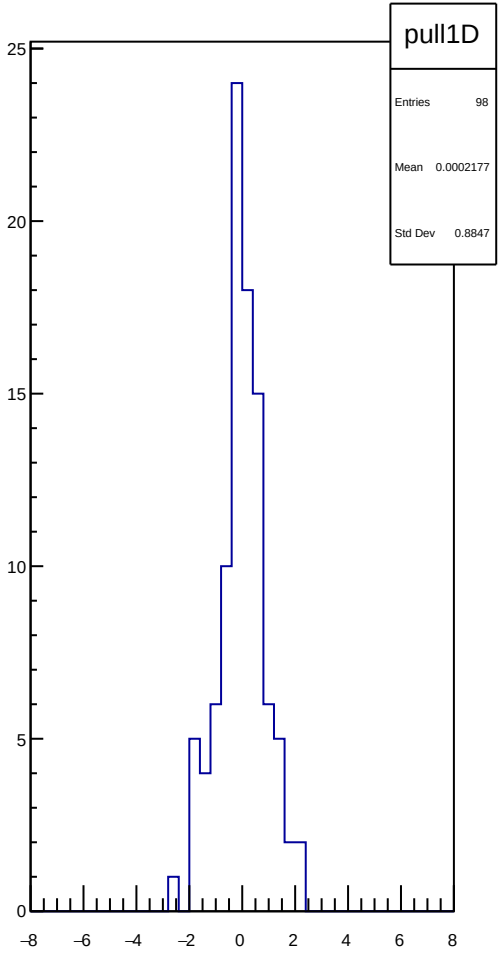

eigen_dit_asym_atr_dd_rms vs run
χ^2 / ndf 210.1 / 97
p0 1992 ± 1.429
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

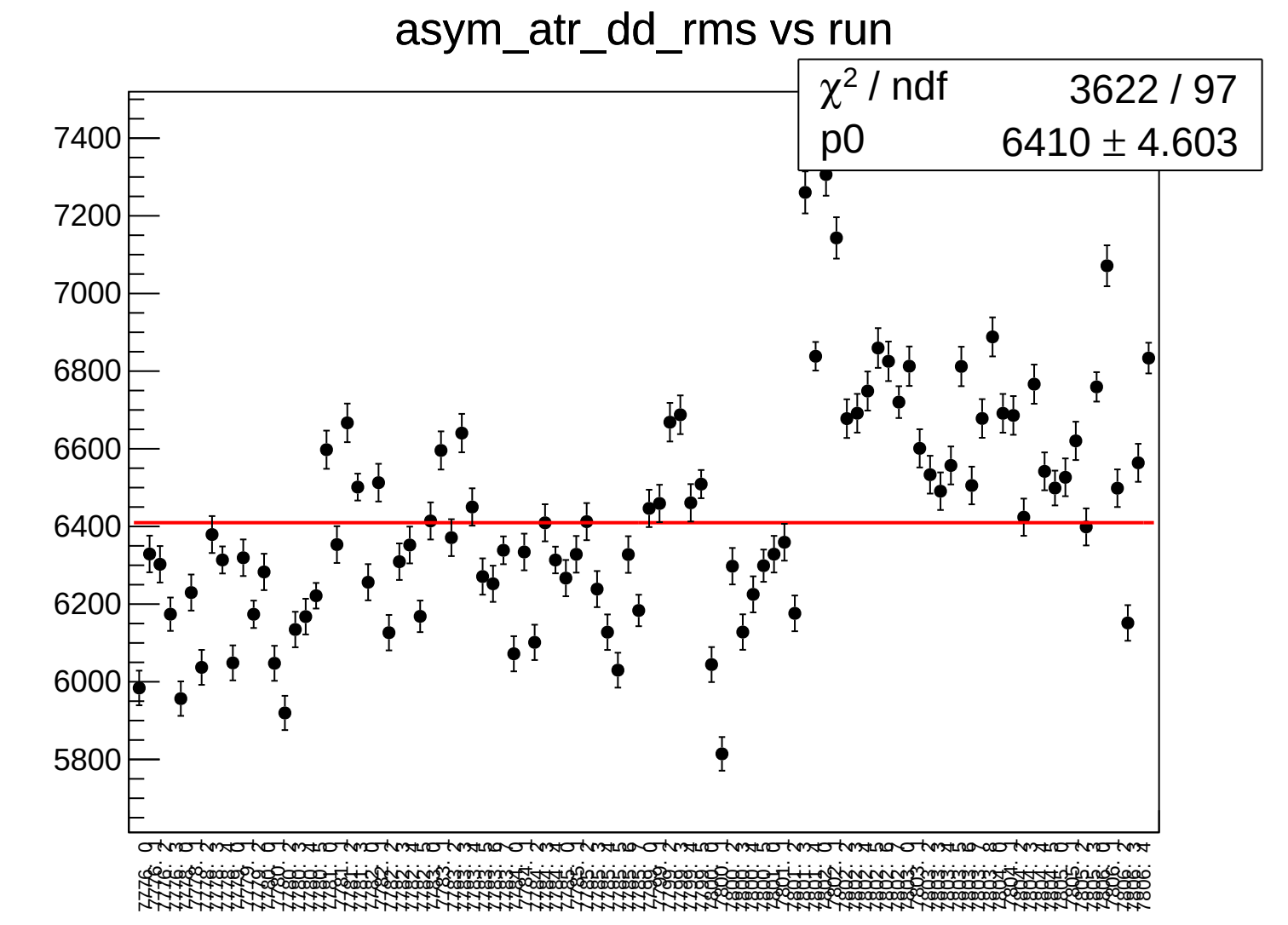

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.01 / 97
p0 −4438 ± 6324
200
100
0
−100
−200
pull
Entries 98
Mean 556.4
Std Dev 0
3
2
1
0
−1
−2

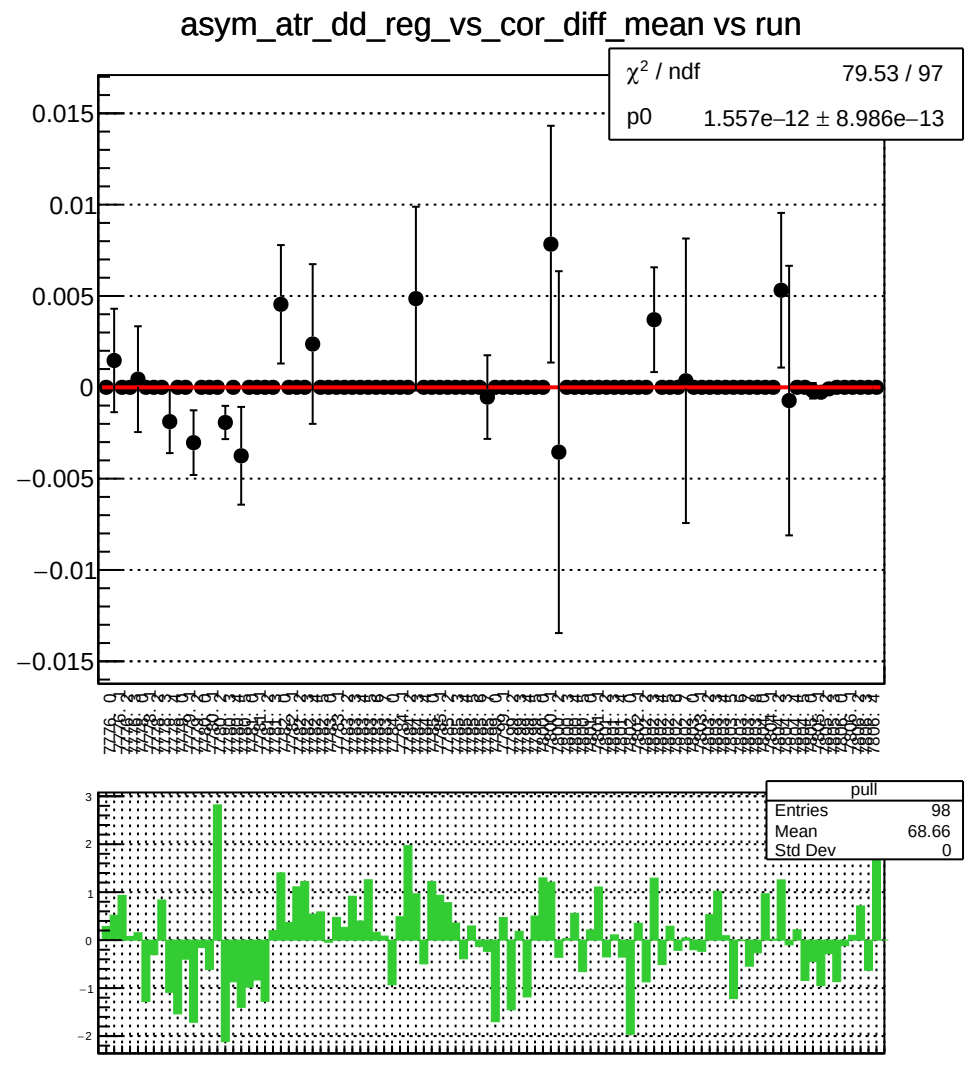

pull1D
Entries 98
Mean −0.009682
Std Dev 0.9091
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

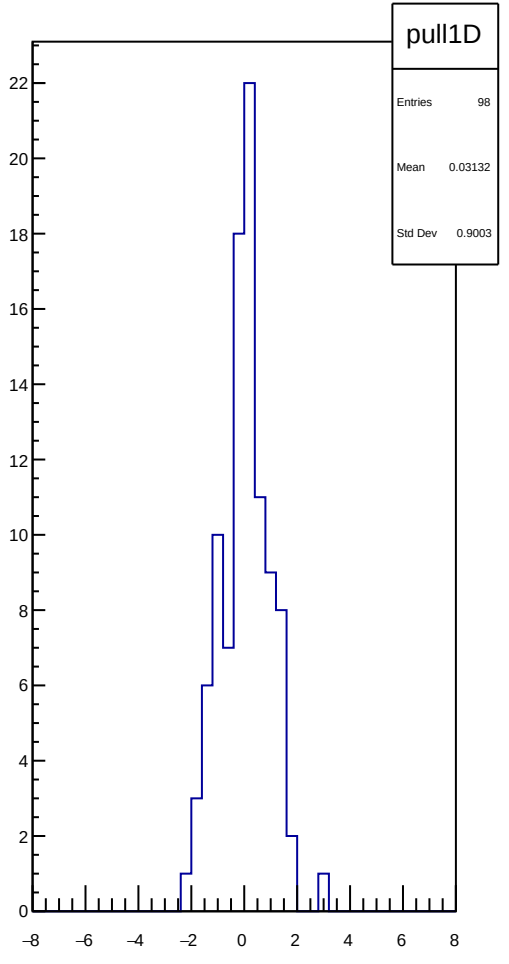

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 5871 / 97
p0 6223 ± 4.471
7500
7000
6500
6000
5500

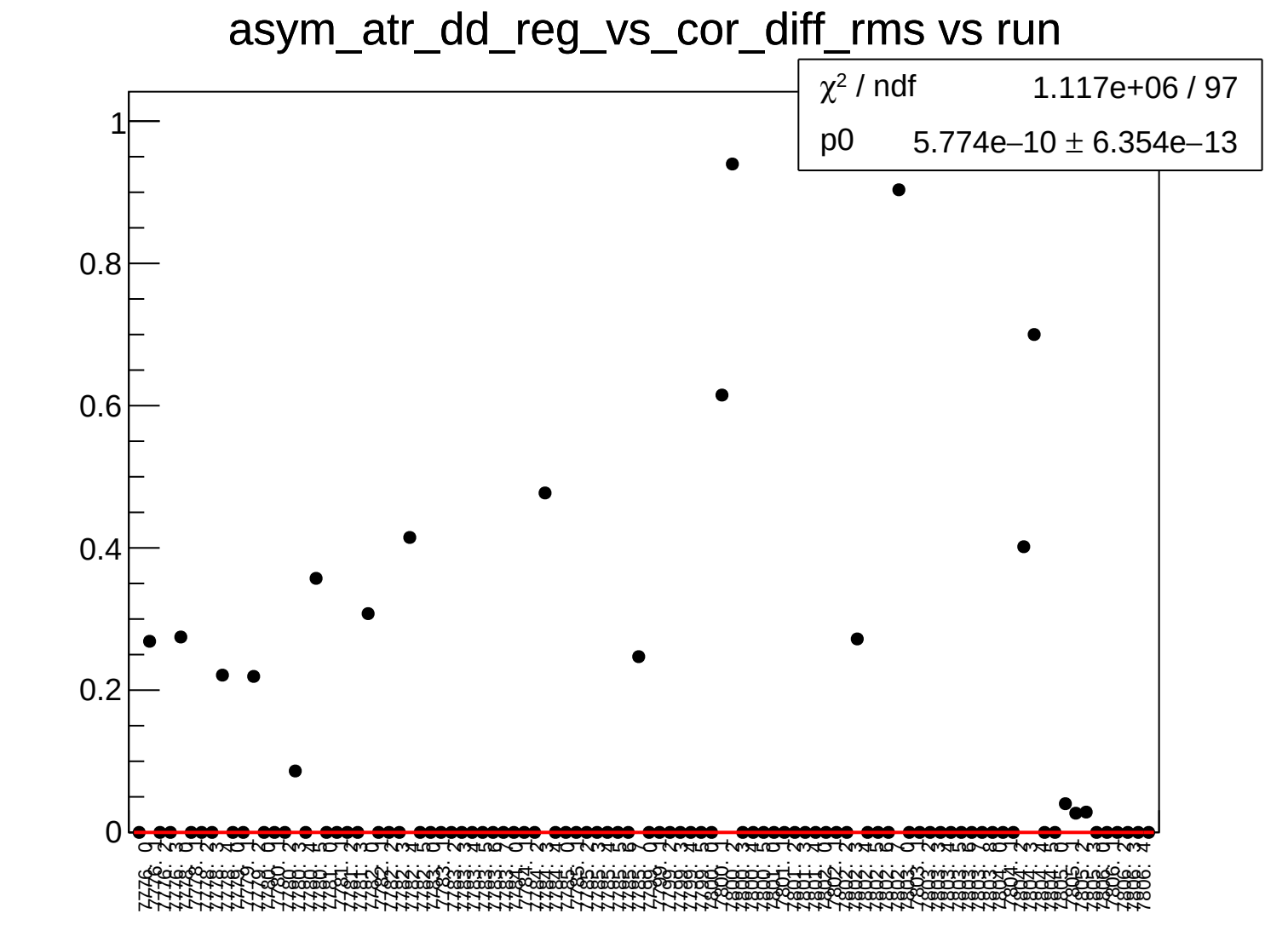

asym_atr_dd_mean vs run
χ² / ndf 76.7 / 97
p0 5668 ± 6509
×10³
pull
Entries 98
Mean 1.909e+04
Std Dev 0

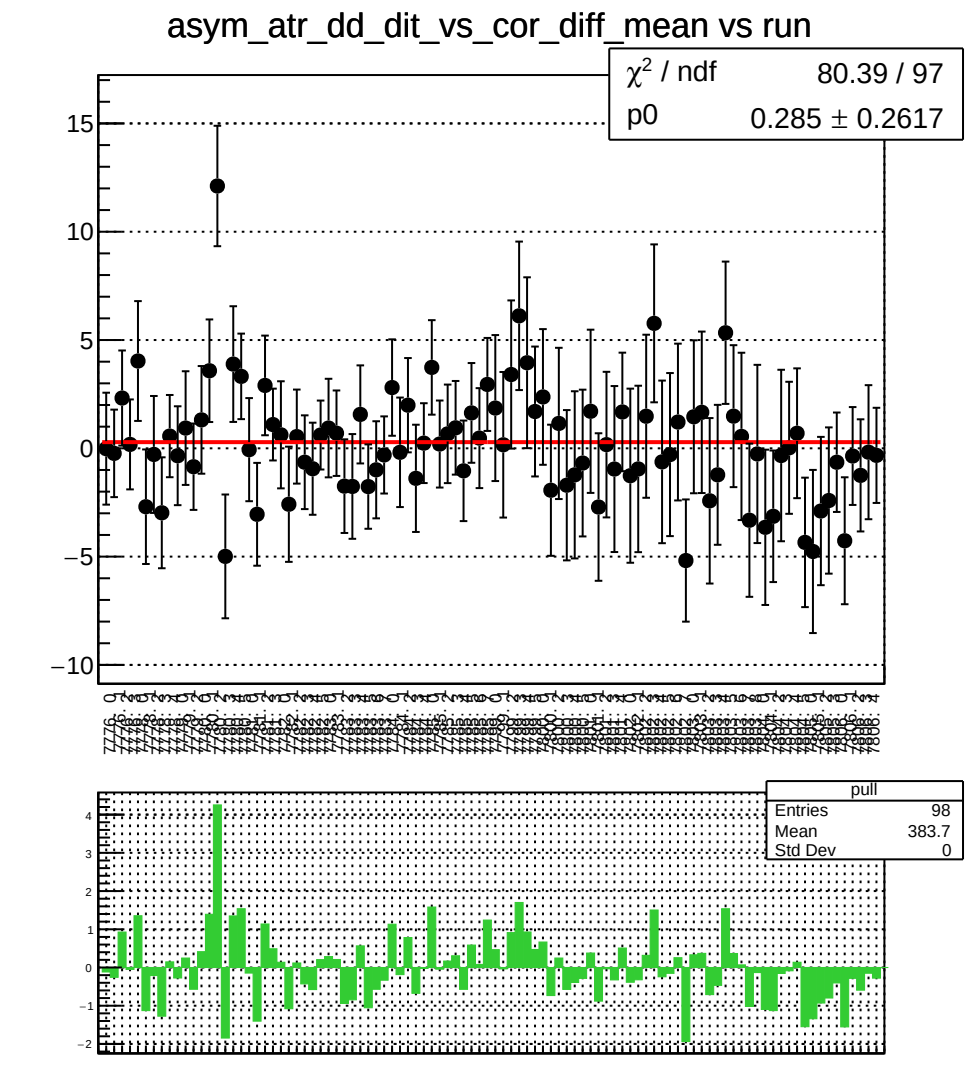

pull1D
Entries 98
Mean 0.0002177
Std Dev 0.8847

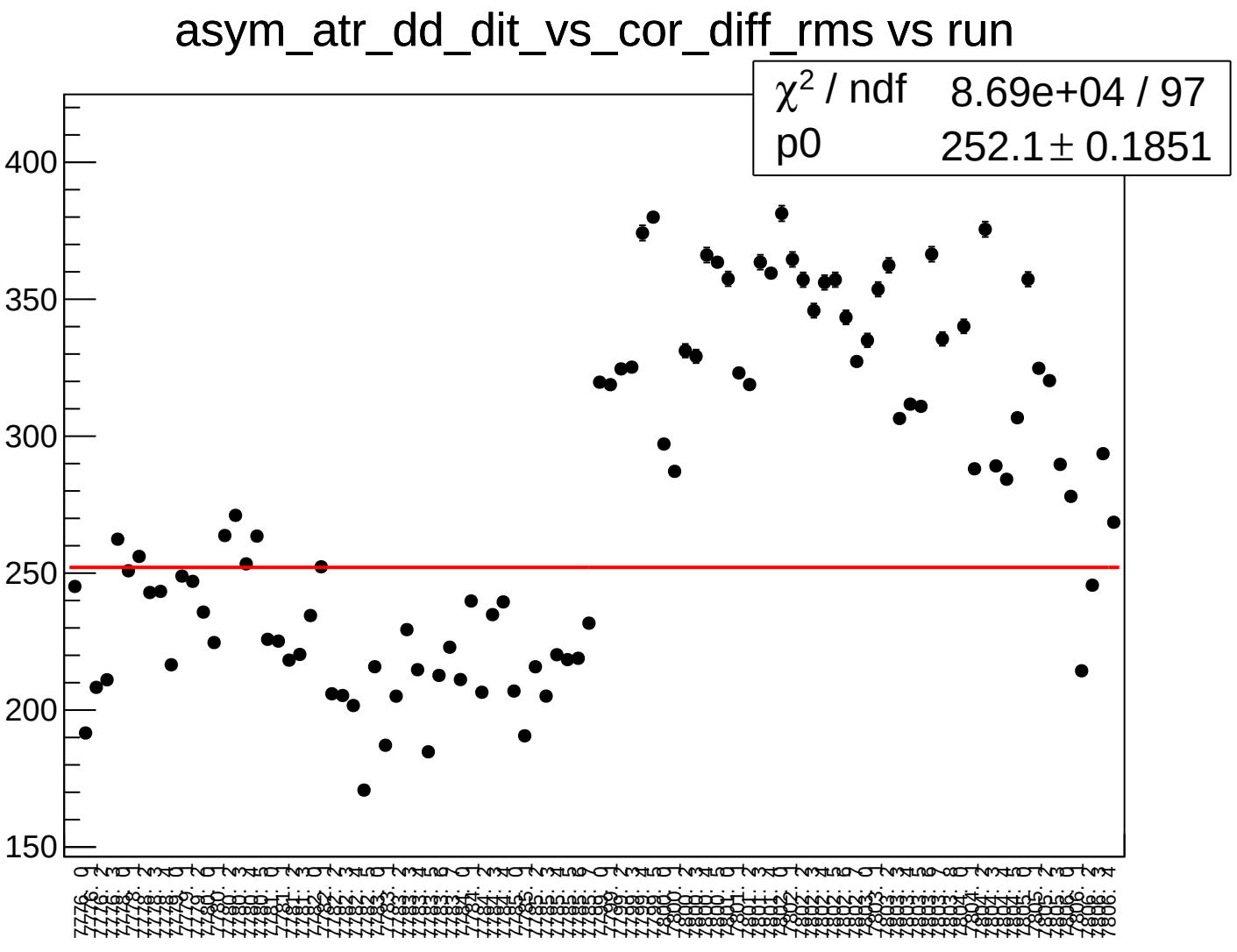

asym_atr_dd_rms vs run
χ^2 / ndf 3622 / 97
p0 6410 ± 4.603
7400
7200
7000
6800
6600
6400
6200
6000
5800

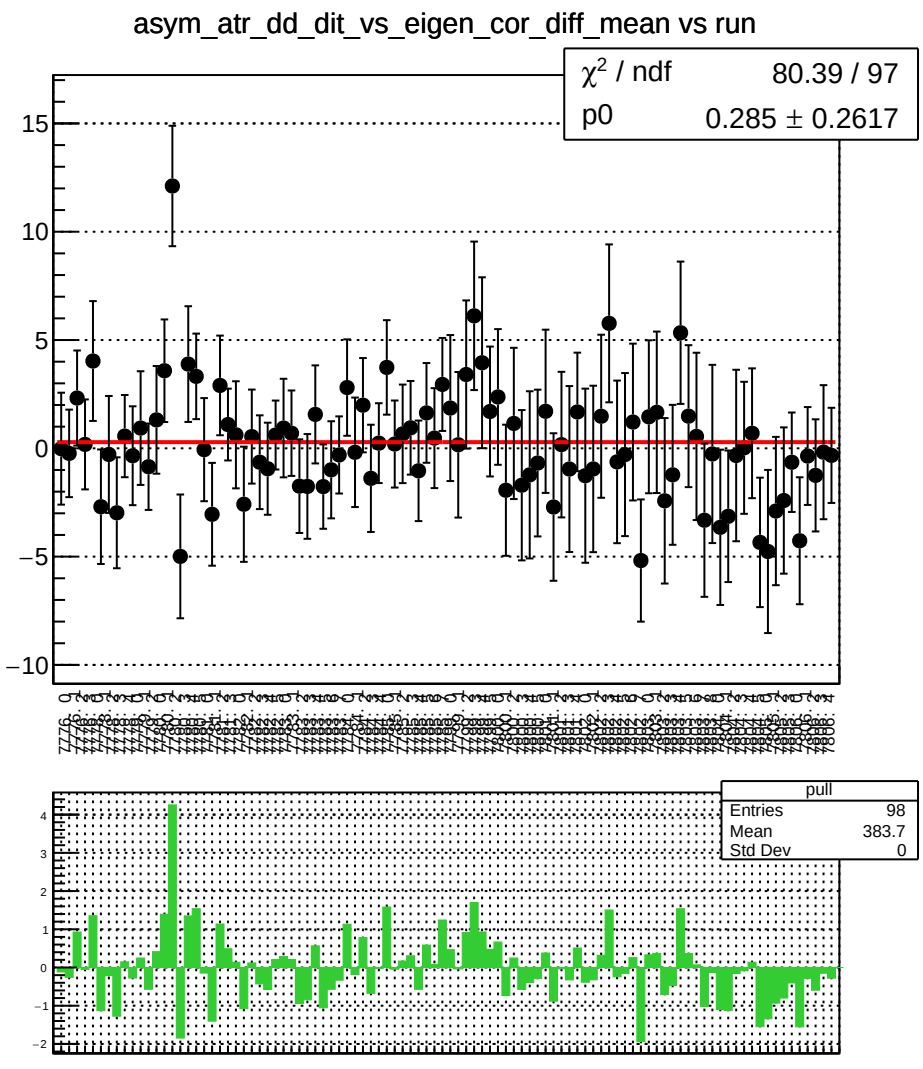

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.53 / 97
p0 1.557e−12 ± 8.986e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 98
Mean 68.66
Std Dev 0
3
2
1
0
−1
−2

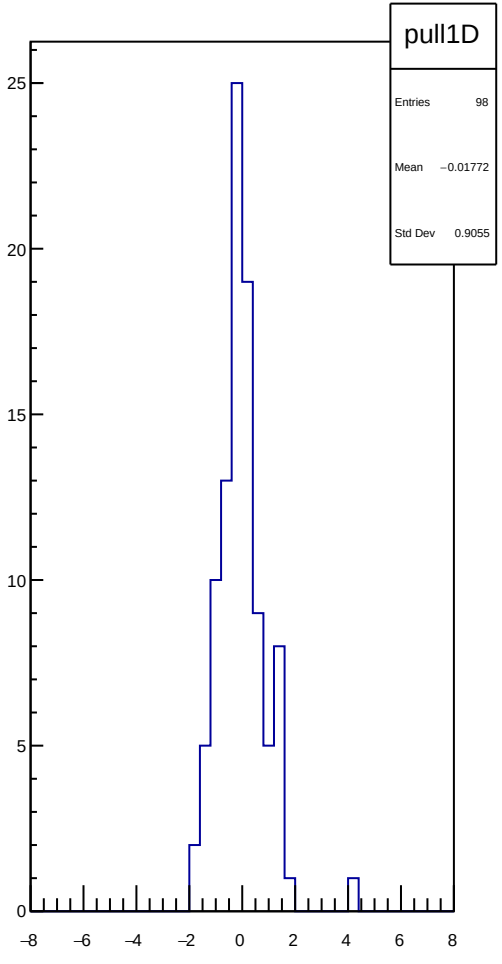

pull1D
Entries 98
Mean 0.03132
Std Dev 0.9003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

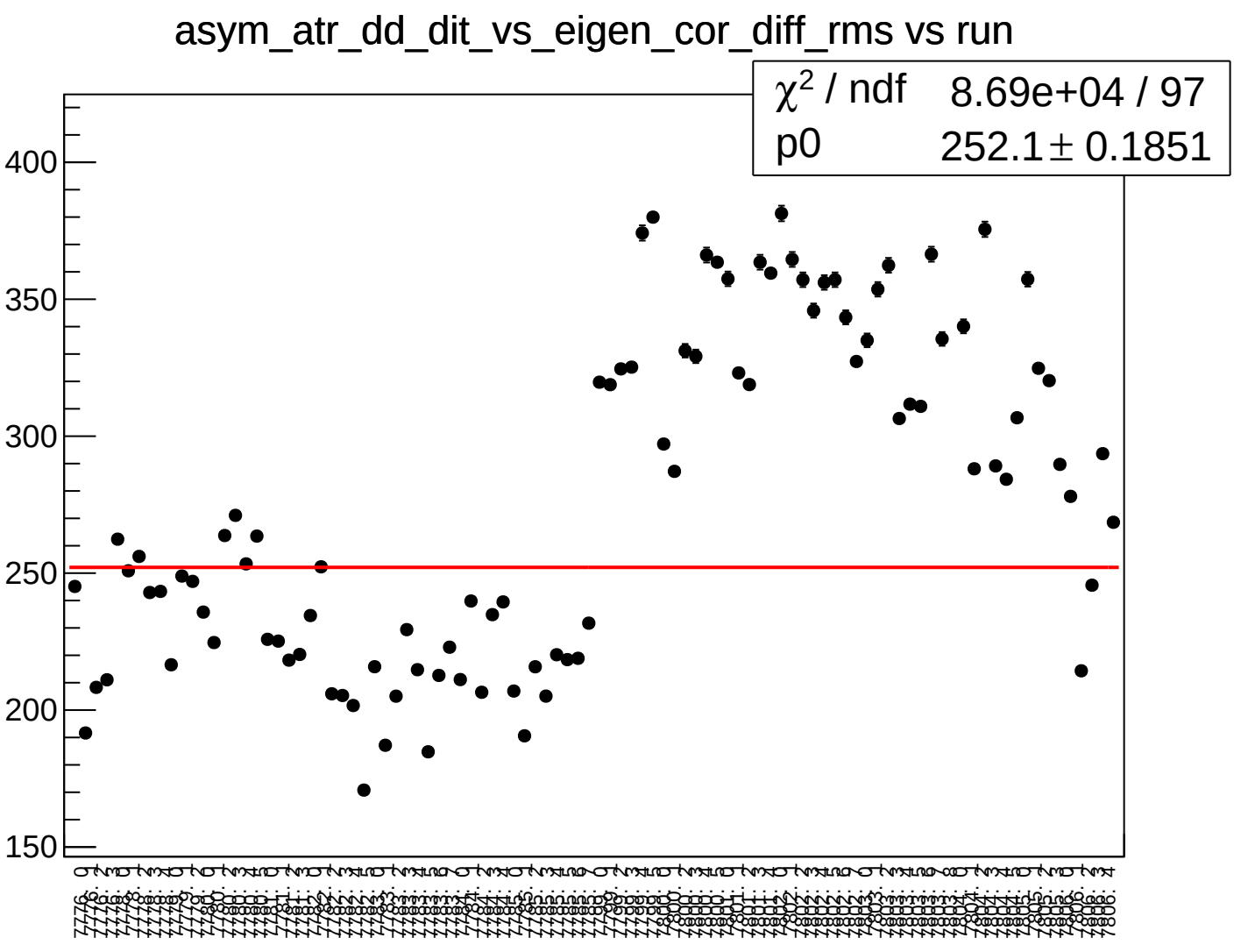

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.117e+06 / 97
p0 5.774e−10 ± 6.354e−13
1
0.8
0.6
0.4
0.2
0

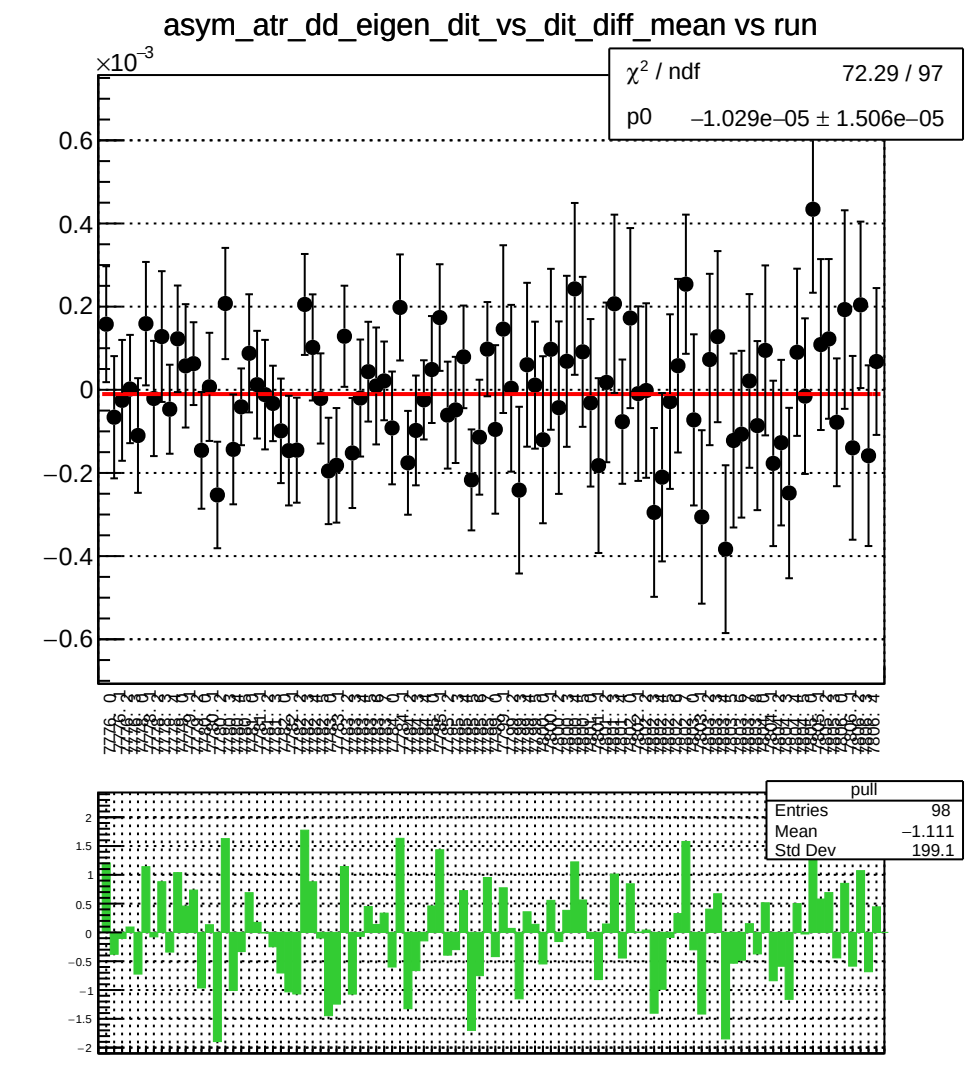

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.39 / 97
p0 0.285 ± 0.2617
pull
Entries 98
Mean 383.7
Std Dev 0
pull1D
Entries 98
Mean −0.01772
Std Dev 0.9055

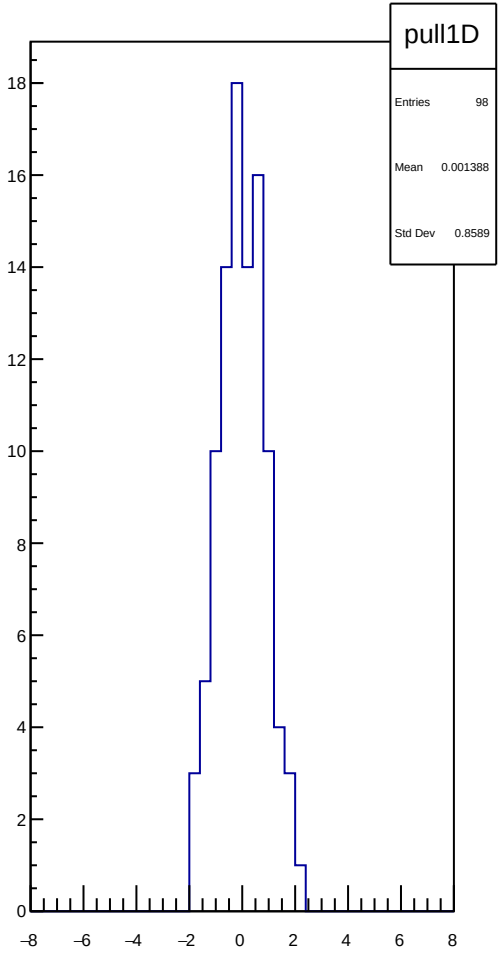

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.69e+04 / 97
p0 252.1 ± 0.1851
400
350
300
250
200
150

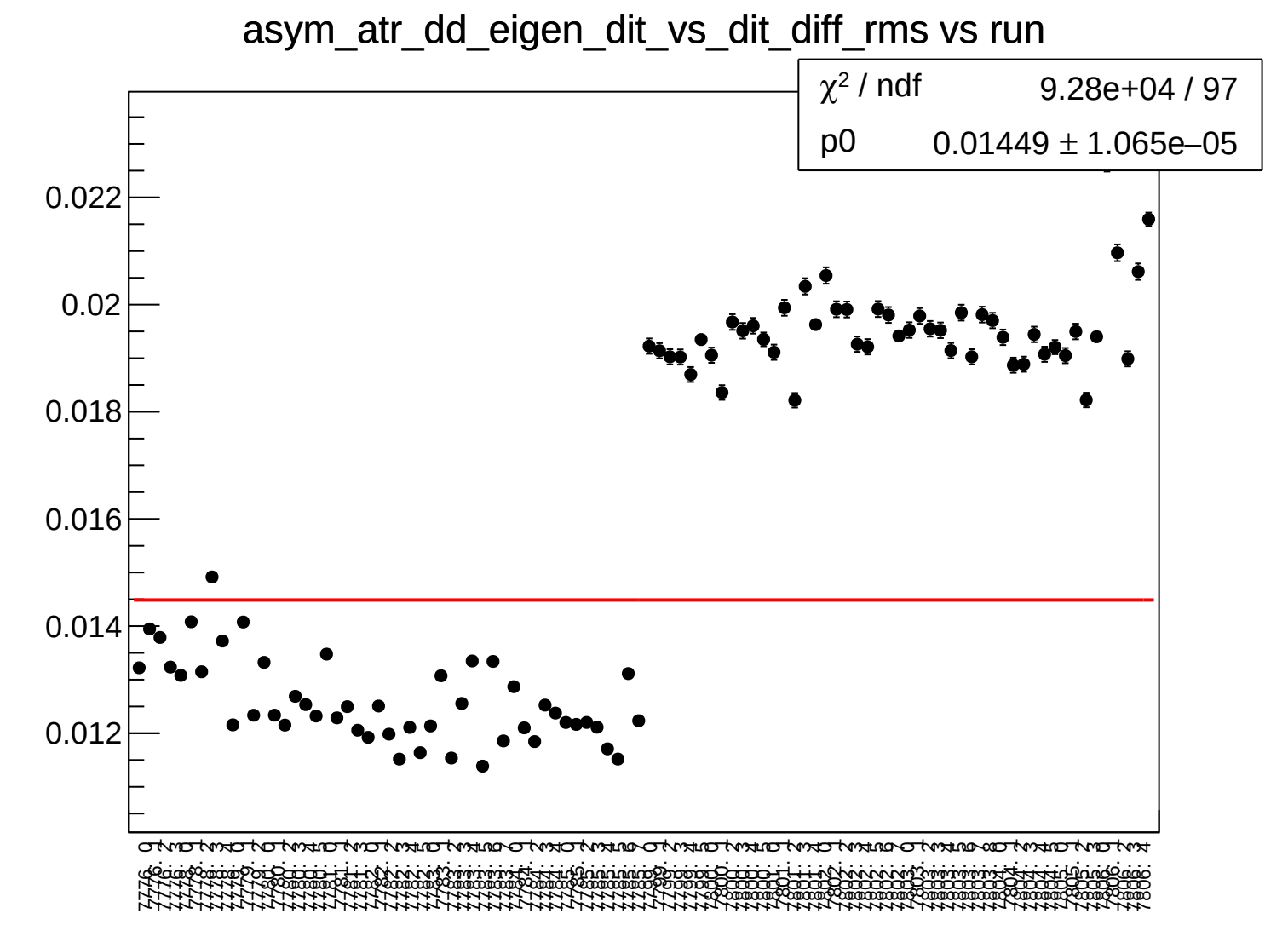

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.39 / 97
p0 0.285 ± 0.2617
pull
Entries 98
Mean 383.7
Std Dev 0

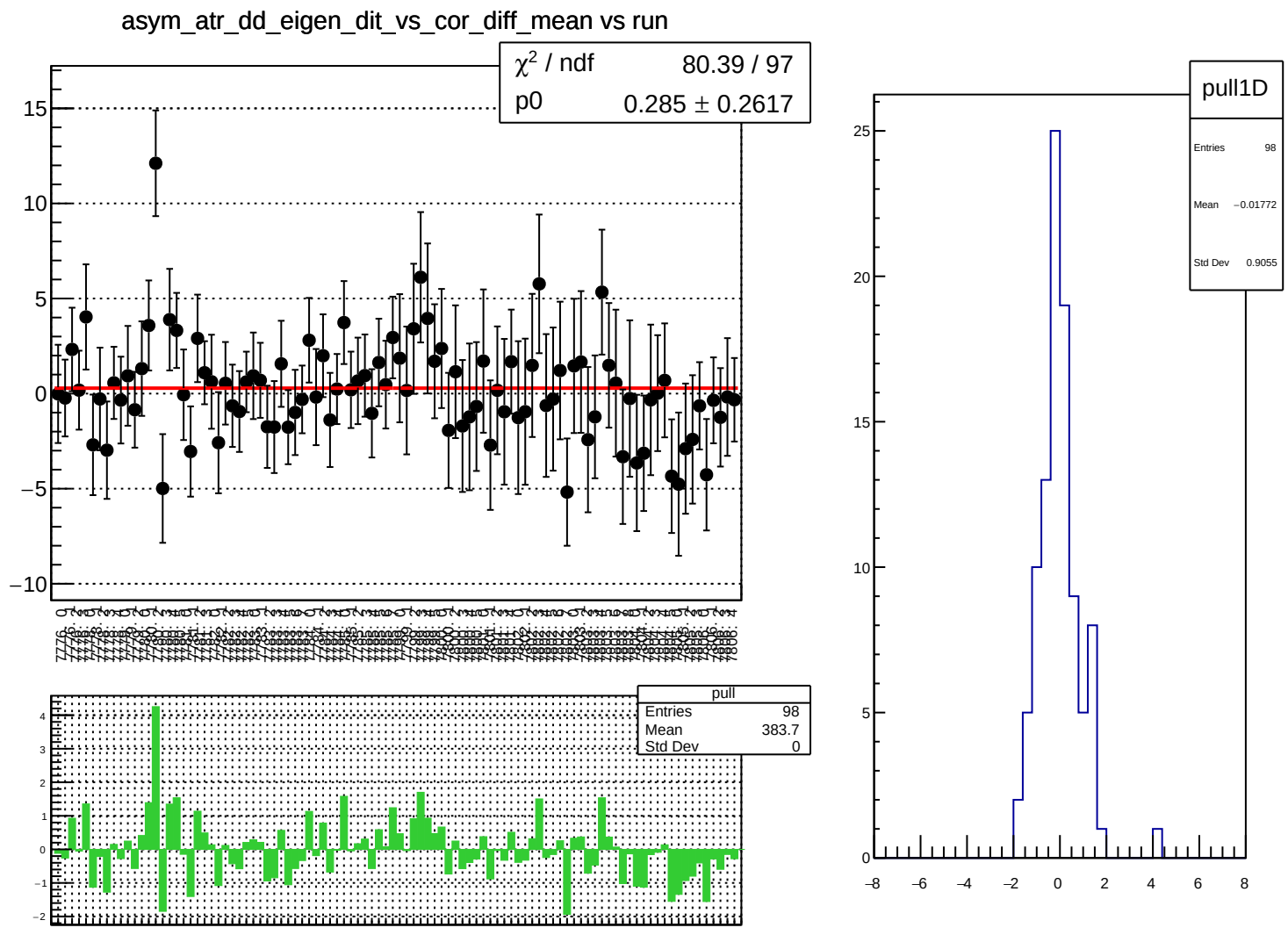

pull1D
Entries 98
Mean −0.01772
Std Dev 0.9055

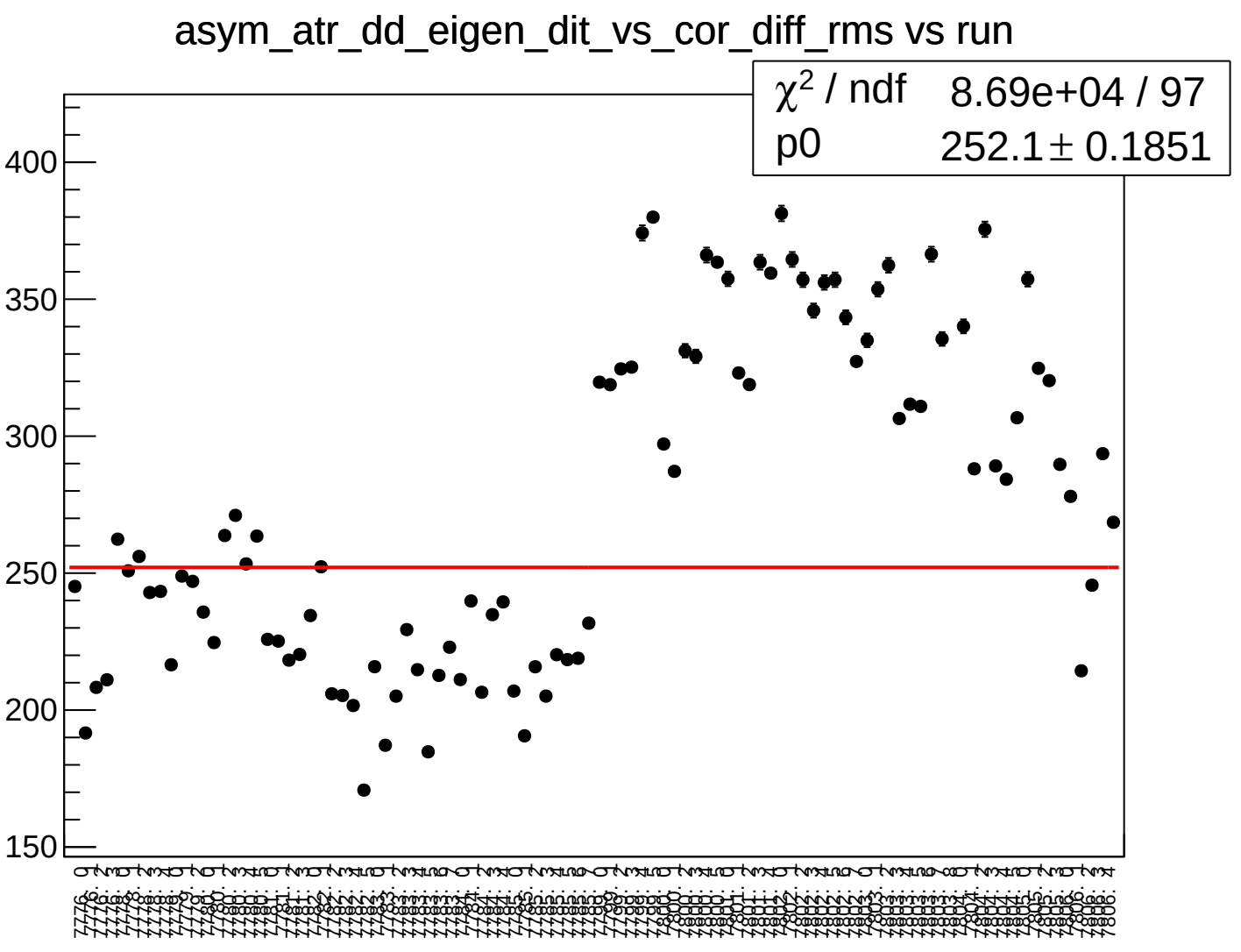

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.69e+04 / 97
p0 252.1 ± 0.1851
400
350
300
250
200
150

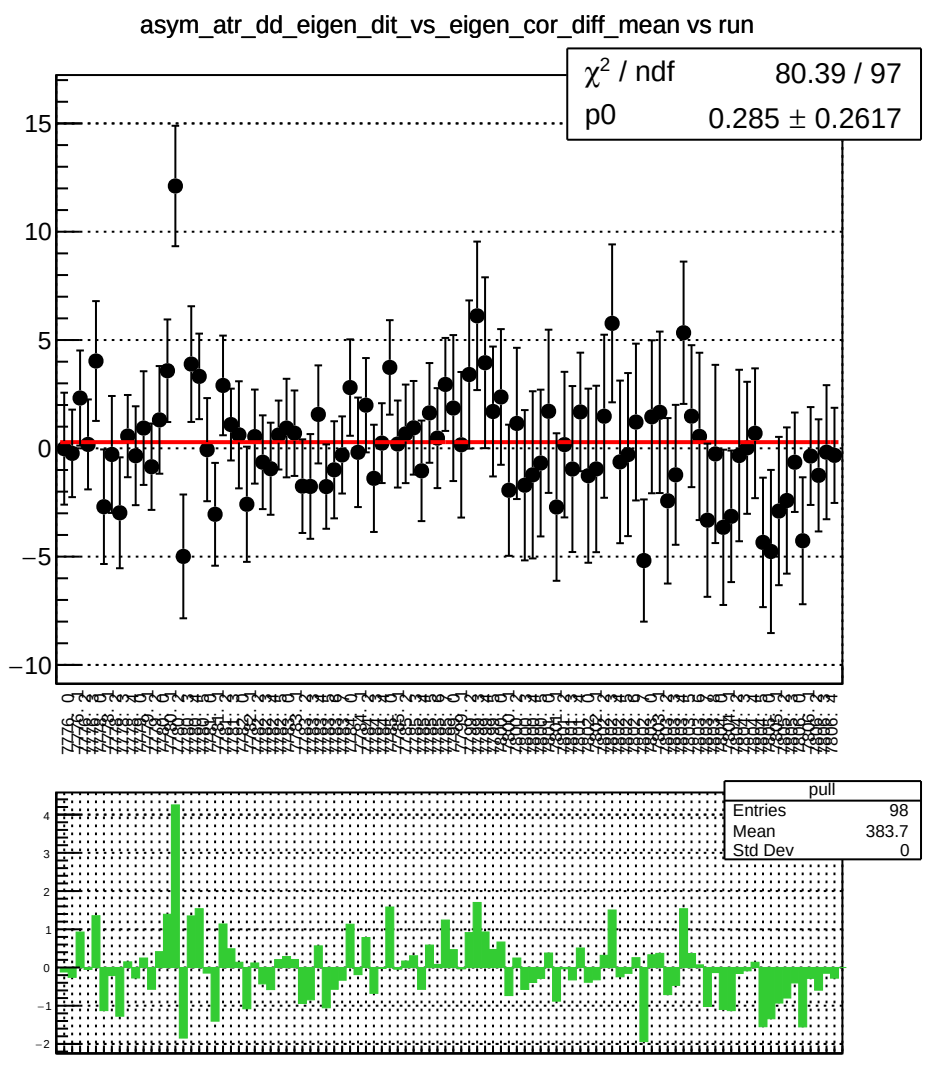

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.29 / 97
p0 −1.029e−05 ± 1.506e−05
pull
Entries 98
Mean −1.111
Std Dev 199.1

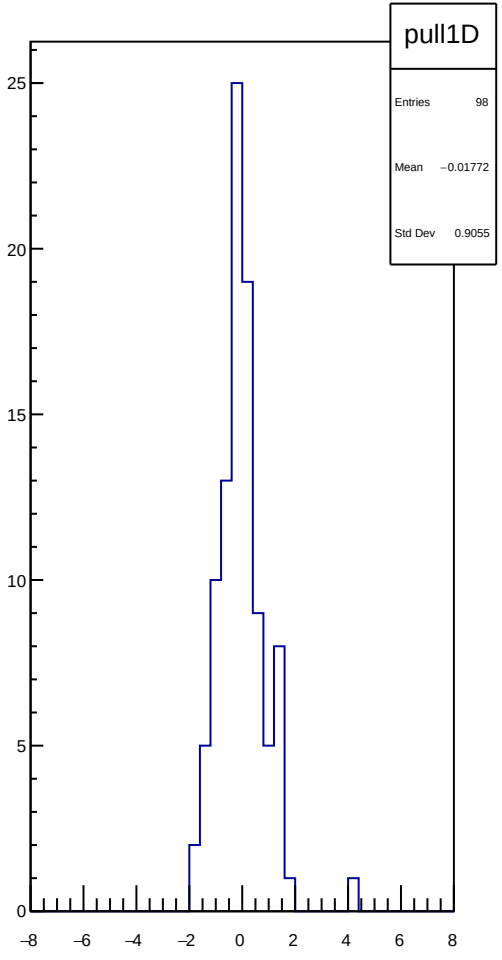

pull1D
Entries 98
Mean 0.001388
Std Dev 0.8589

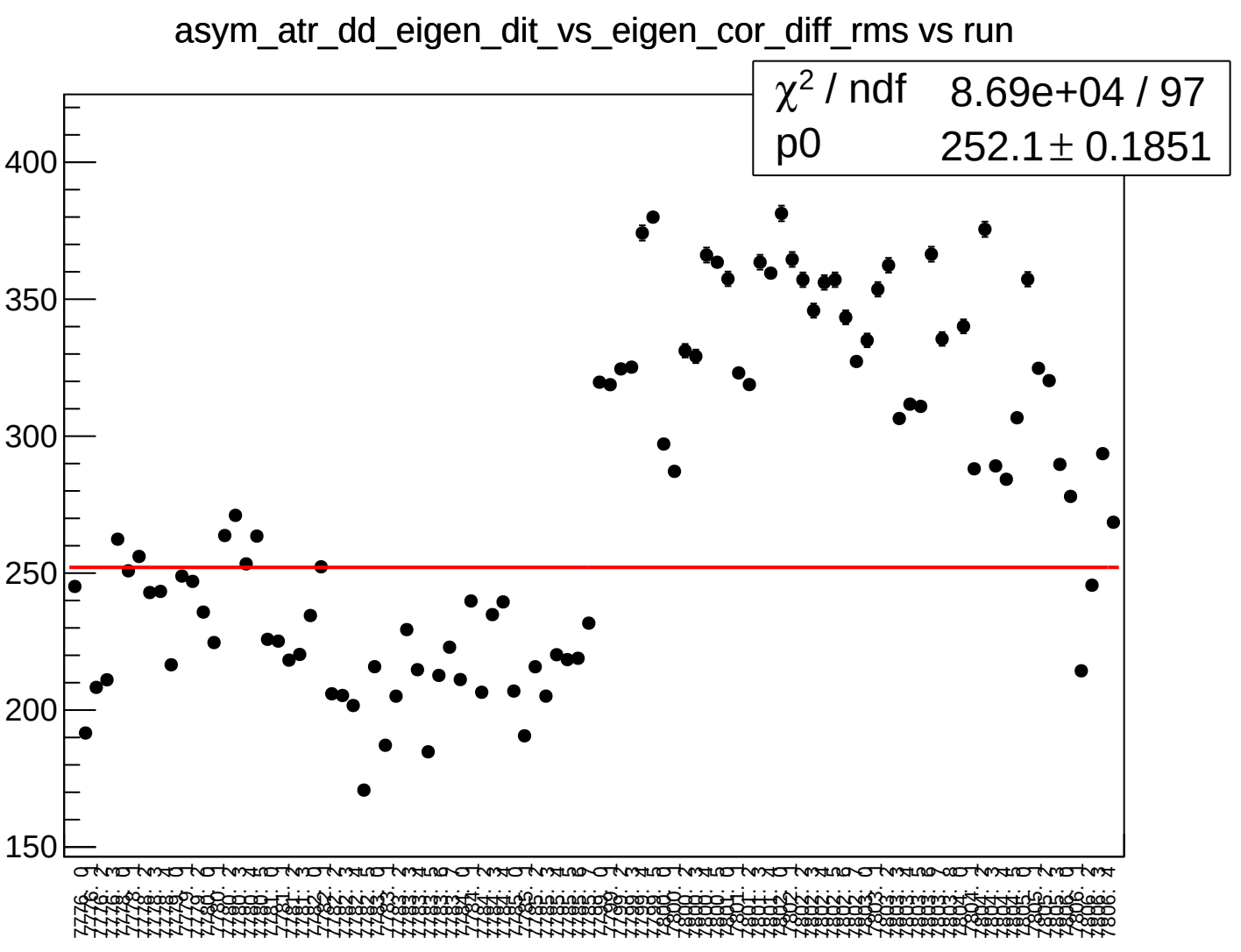

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.28e+04 / 97
p0 0.01449 ± 1.065e−05
0.022
0.02
0.018
0.016
0.014
0.012

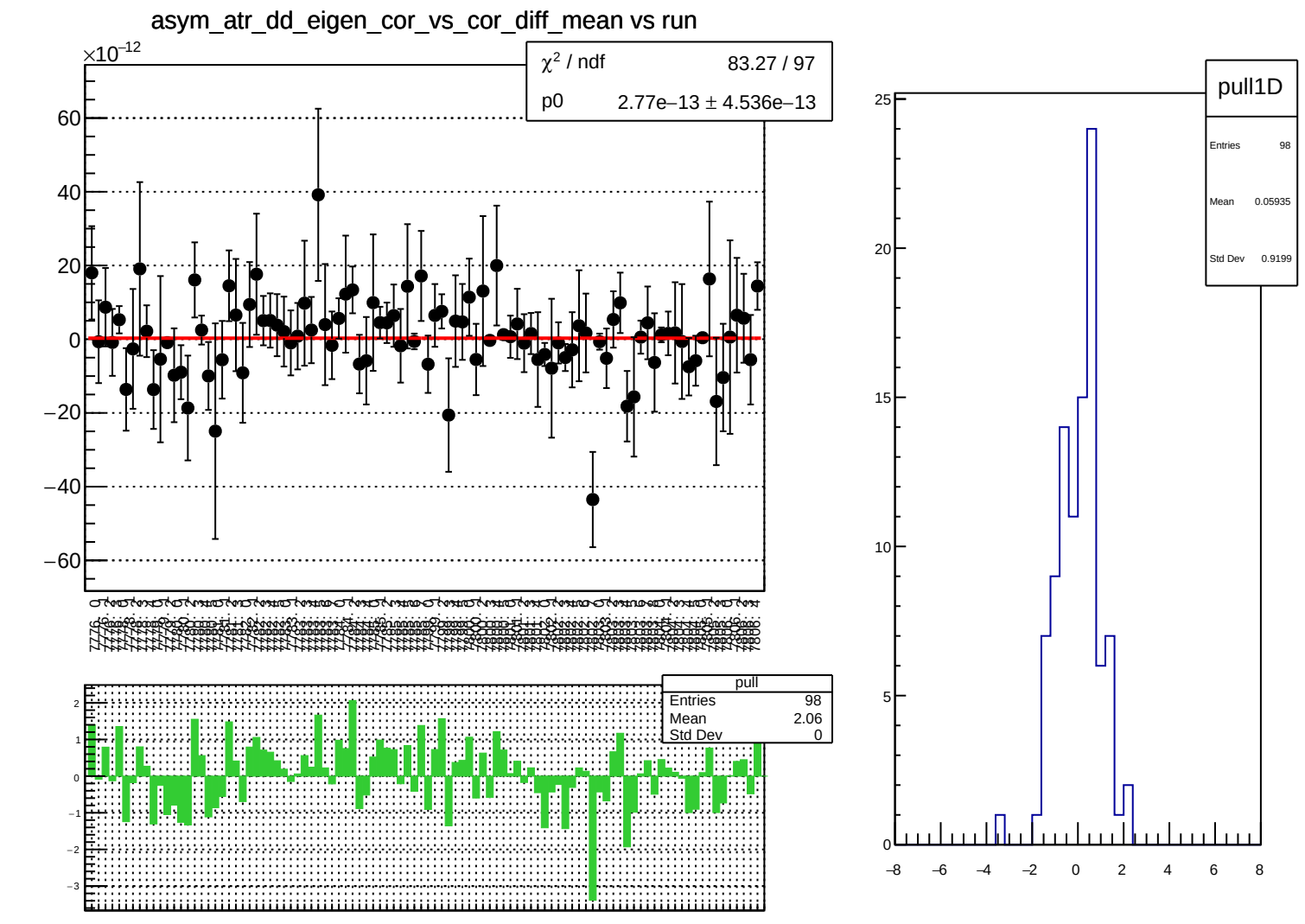

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.39 / 97
p0 0.285 ± 0.2617
pull
Entries 98
Mean 383.7
Std Dev 0
pull1D
Entries 98
Mean −0.01772
Std Dev 0.9055

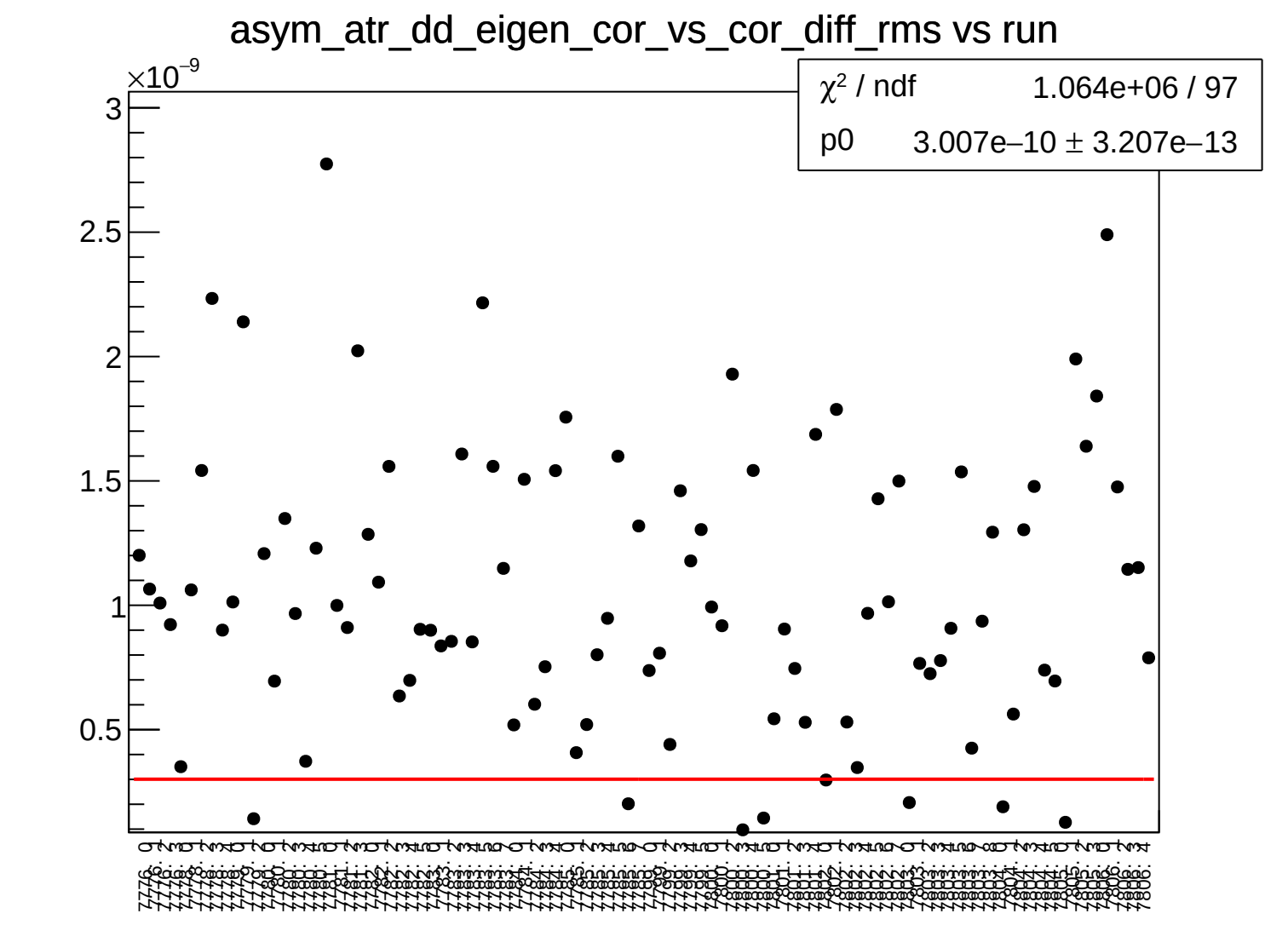

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.69e+04 / 97
p0 252.1 ± 0.1851
400
350
300
250
200
150

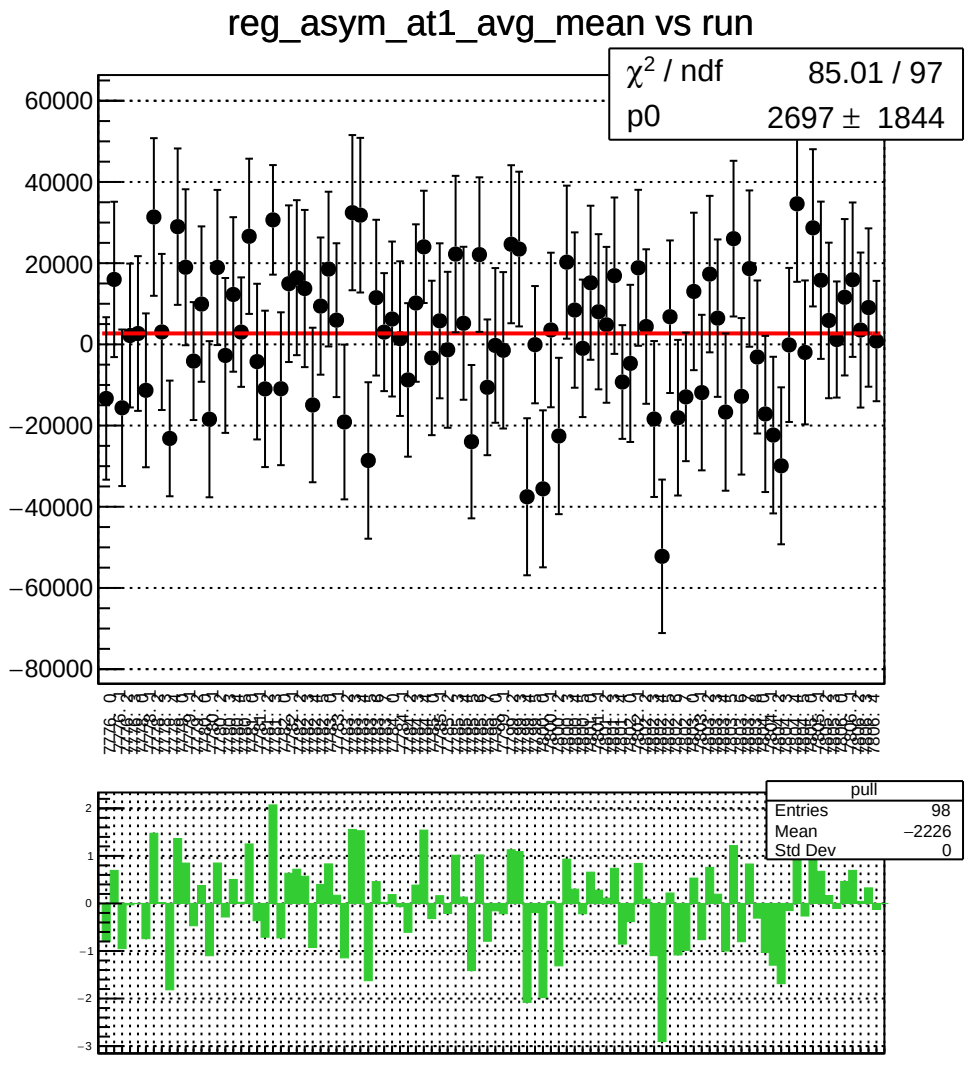

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.39 / 97
p0 0.285 ± 0.2617
15
10
5
0
−5
−10
pull
Entries 98
Mean 383.7
Std Dev 0
4
3
2
1
0
−1
−2

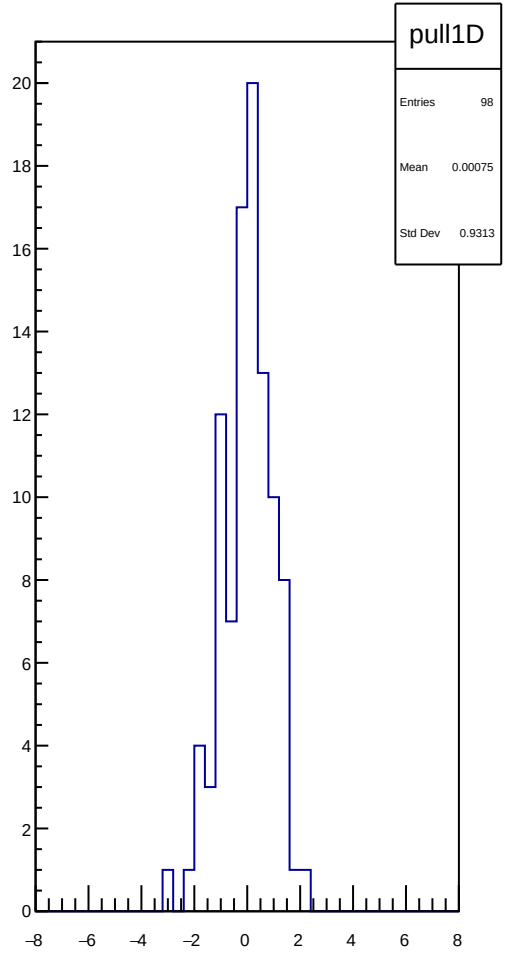

pull1D
Entries 98
Mean −0.01772
Std Dev 0.9055
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

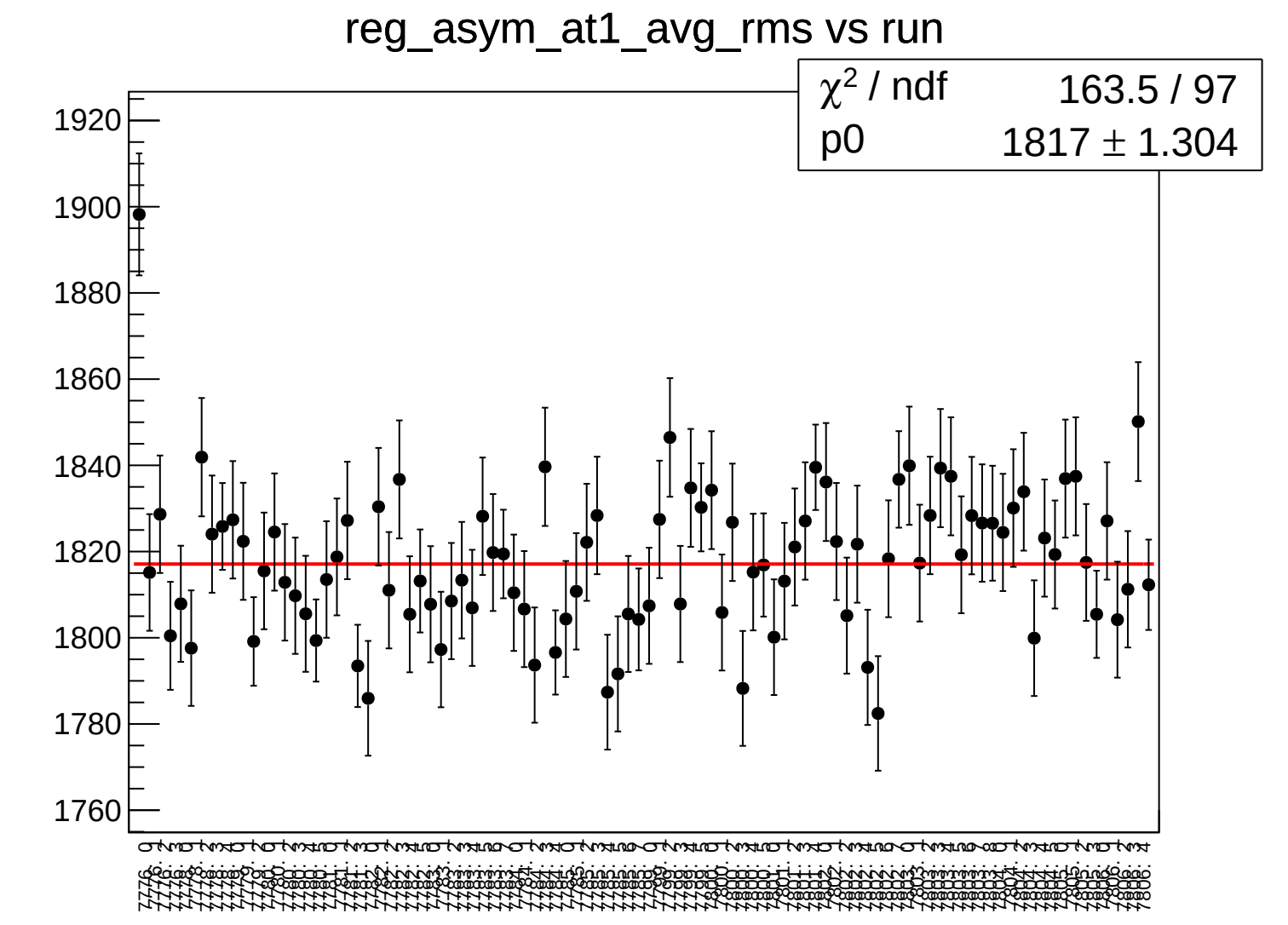

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.69e+04 / 97
p0 252.1 ± 0.1851
400
350
300
250
200
150

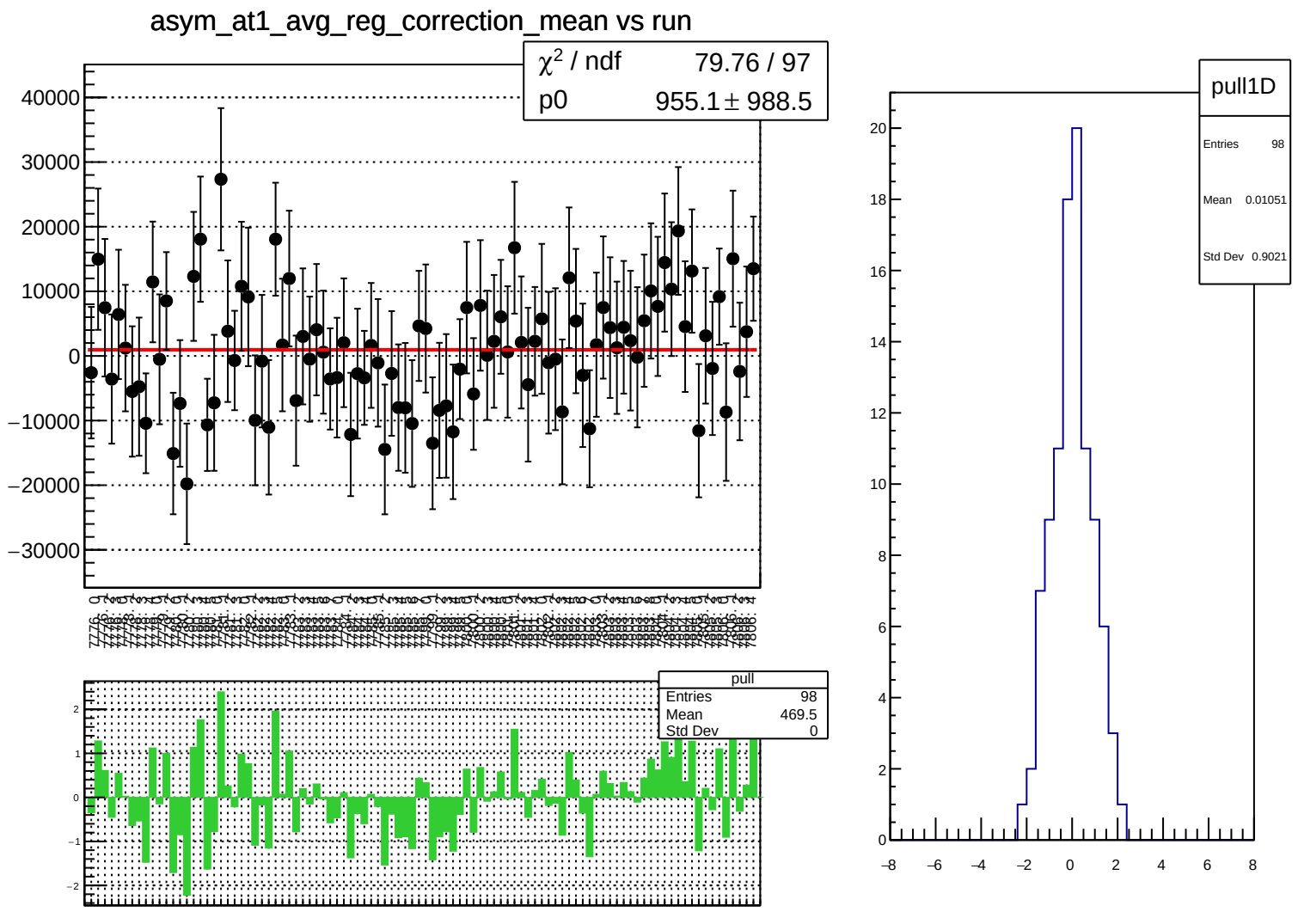

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 83.27 / 97
p0 2.77e−13 ± 4.536e−13
60
40
20
0
−20
−40
−60
pull
Entries 98
Mean 2.06
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.05935
Std Dev 0.9199
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

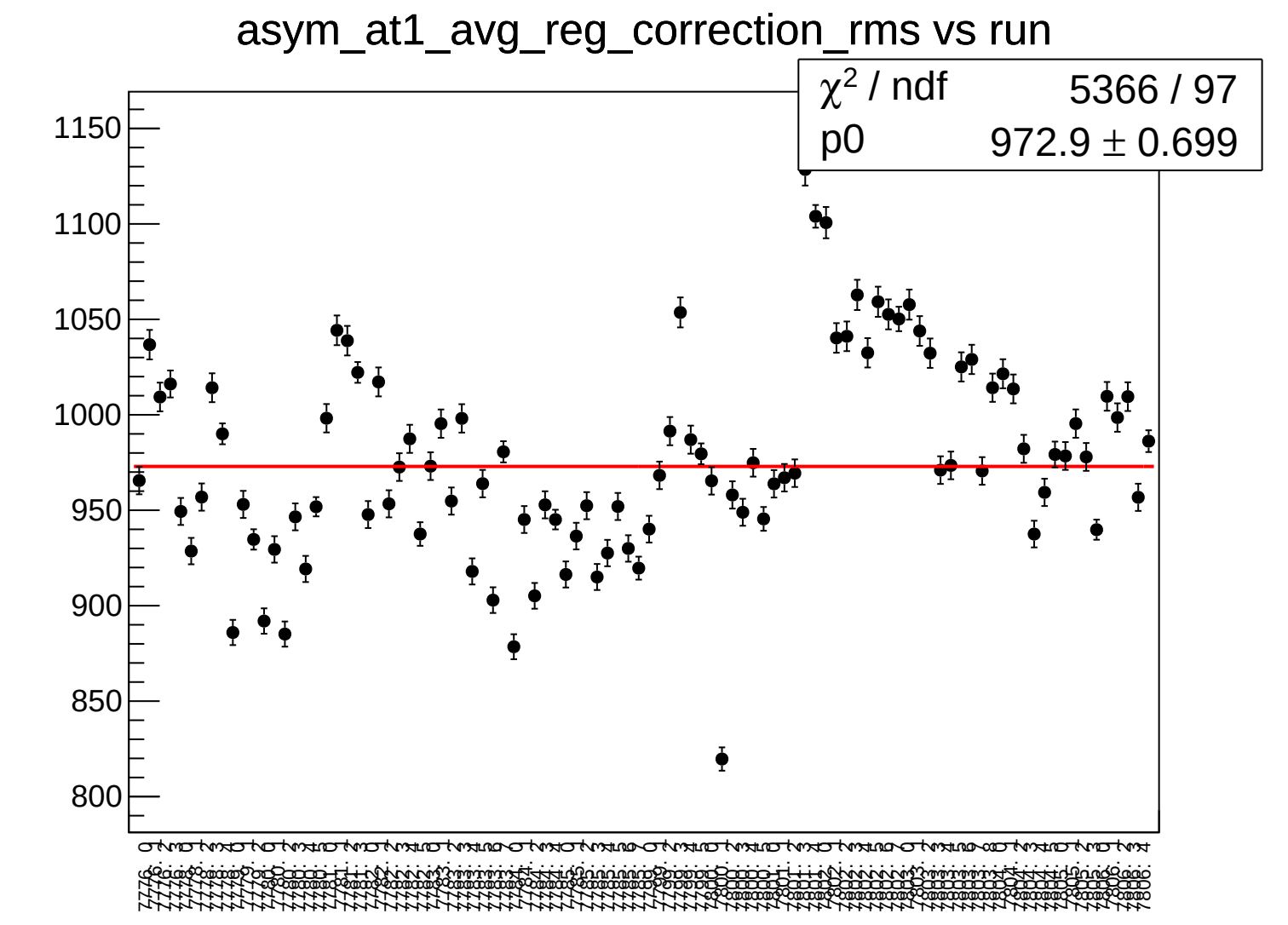

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.064e+06 / 97
p0 3.007e−10 ± 3.207e−13
3
2.5
2
1.5
1
0.5

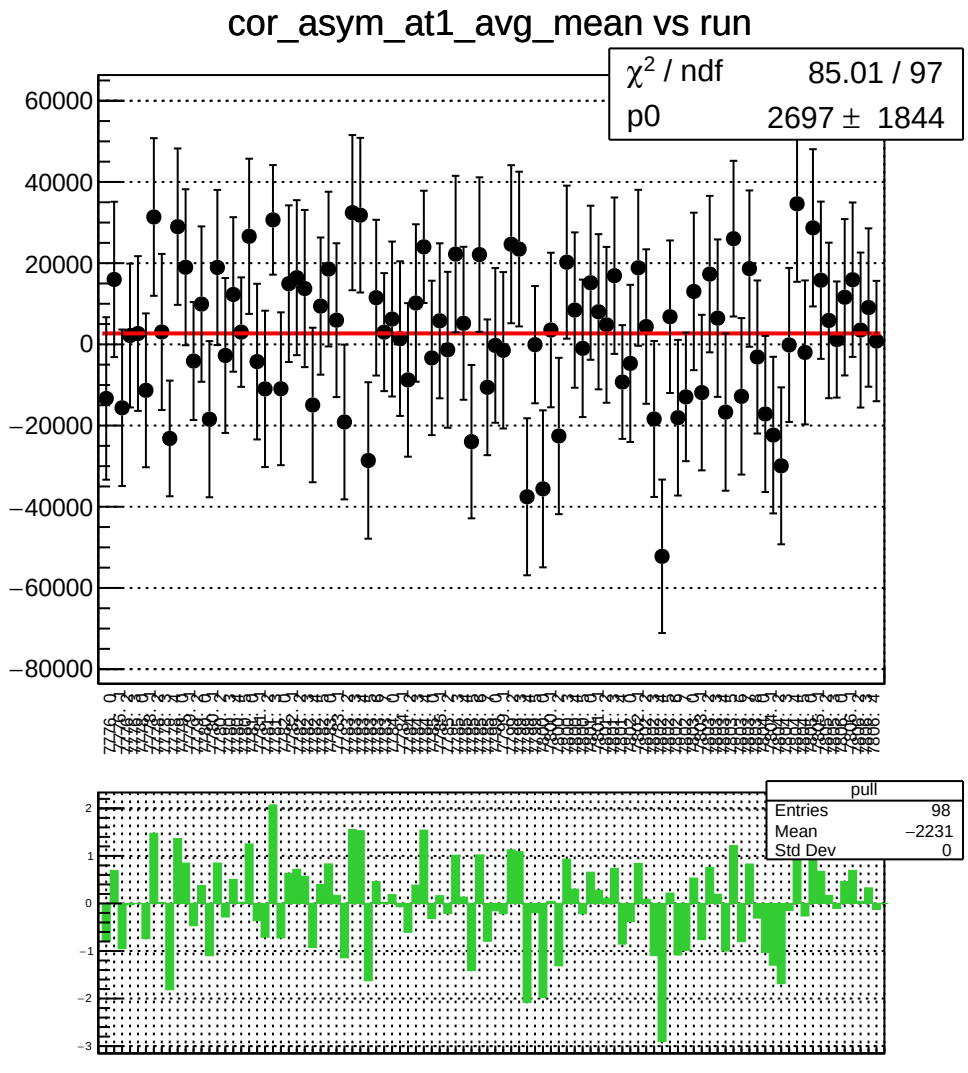

reg_asym_at1_avg_mean vs run
χ² / ndf 85.01 / 97
p0 2697 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −2226
Std Dev 0
2
1
0
−1
−2
−3

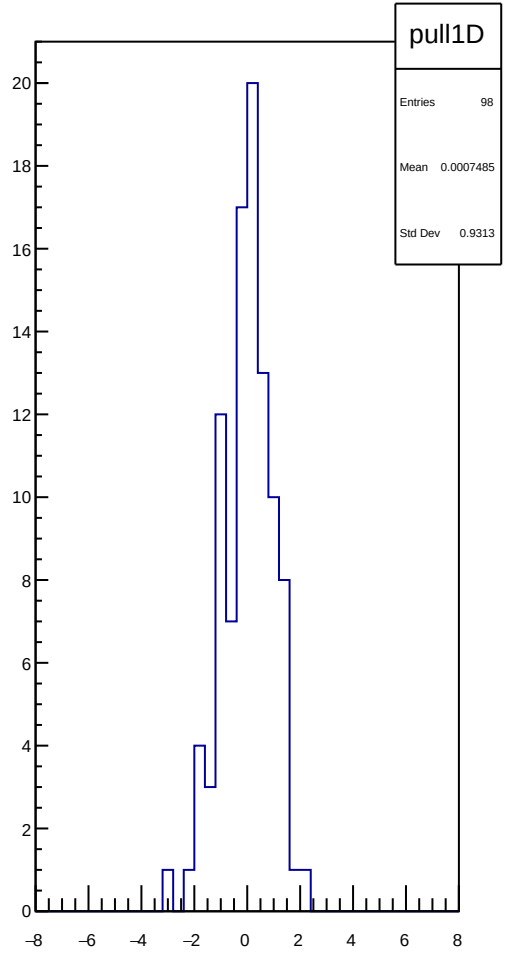

pull1D
Entries 98
Mean 0.00075
Std Dev 0.9313
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

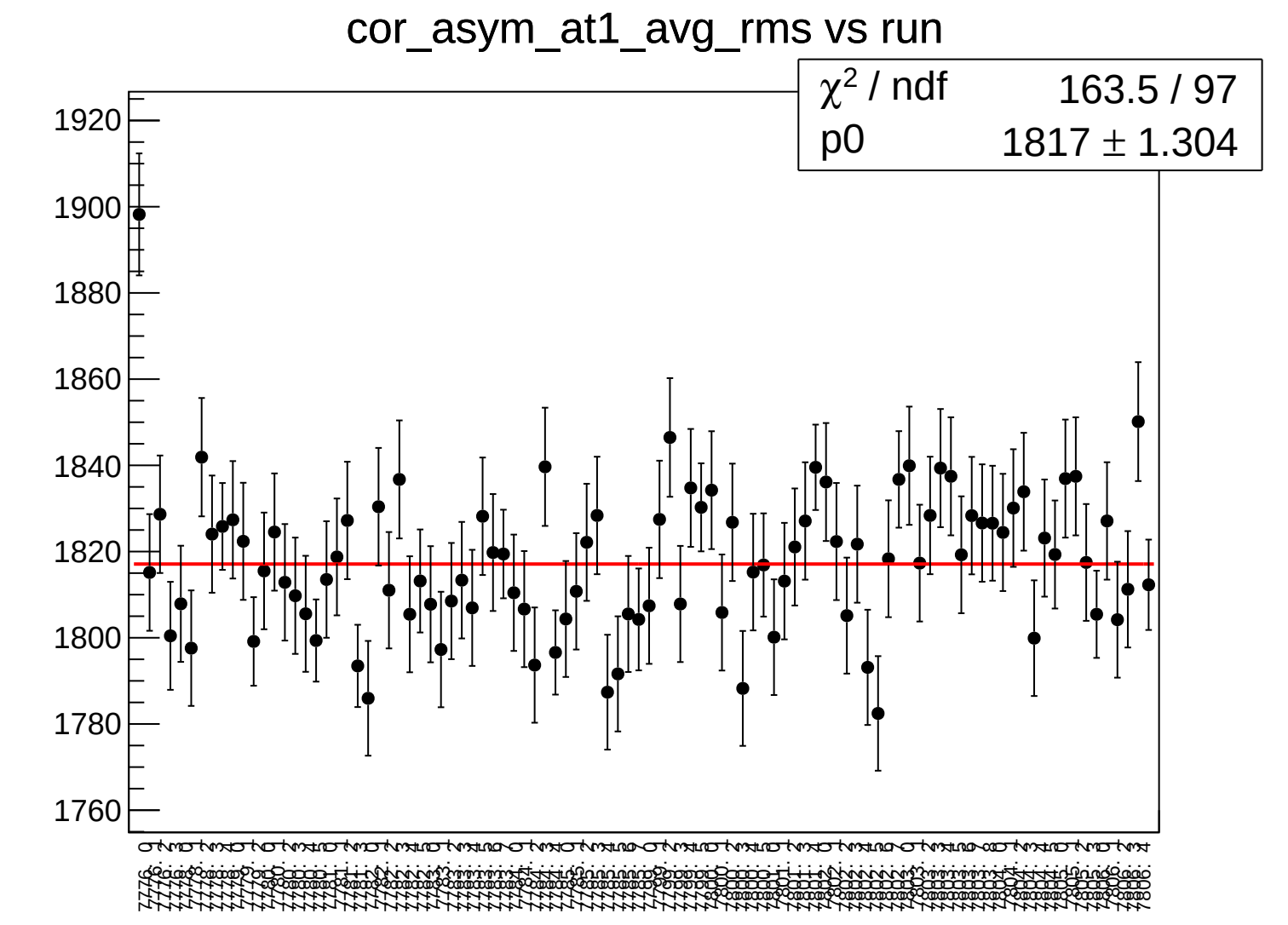

reg_asym_at1_avg_rms vs run
χ² / ndf 163.5 / 97
p0 1817 ± 1.304
1920
1900
1880
1860
1840
1820
1800
1780
1760

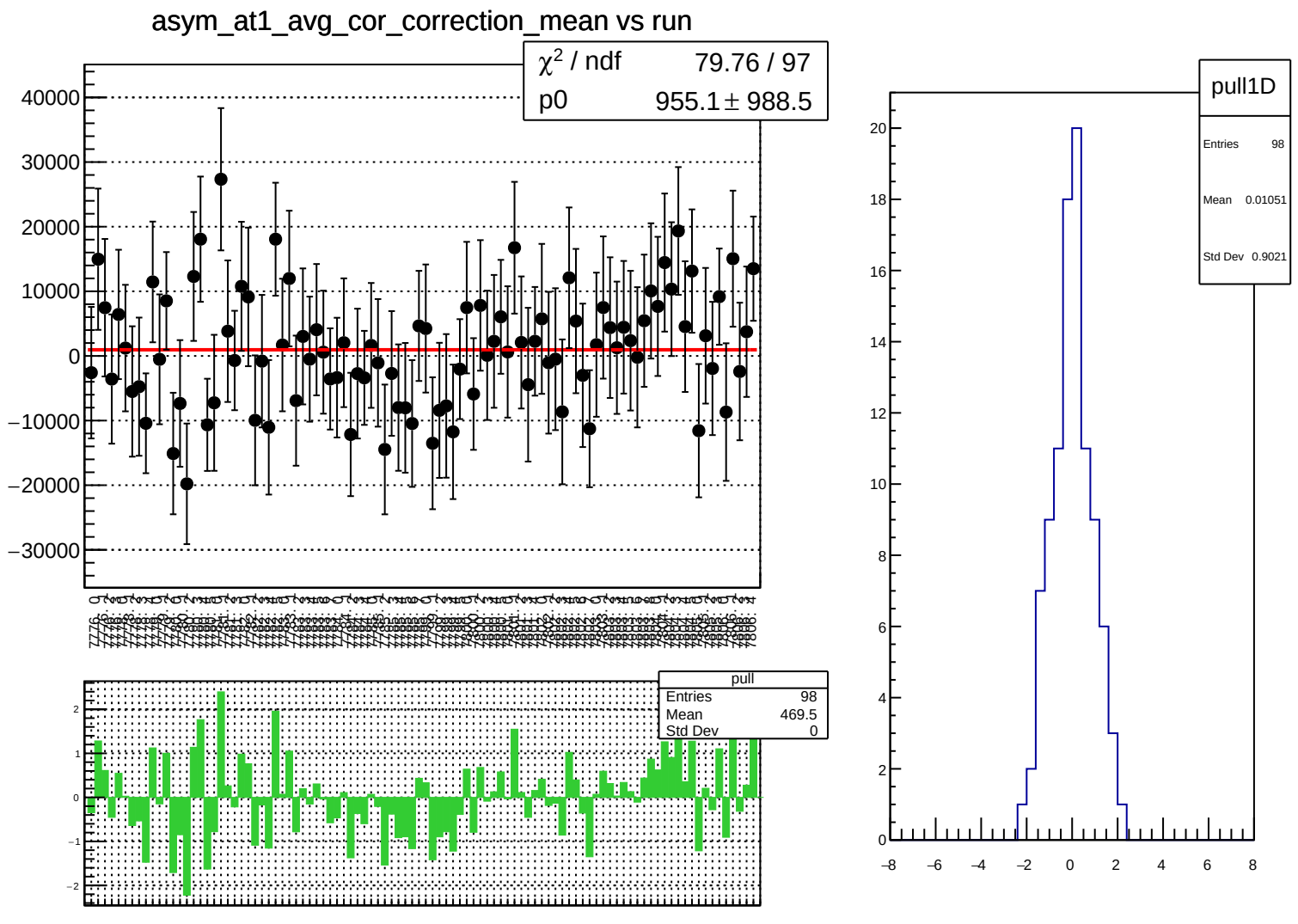

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 79.76 / 97
p0 955.1 ± 988.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 469.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01051
Std Dev 0.9021
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

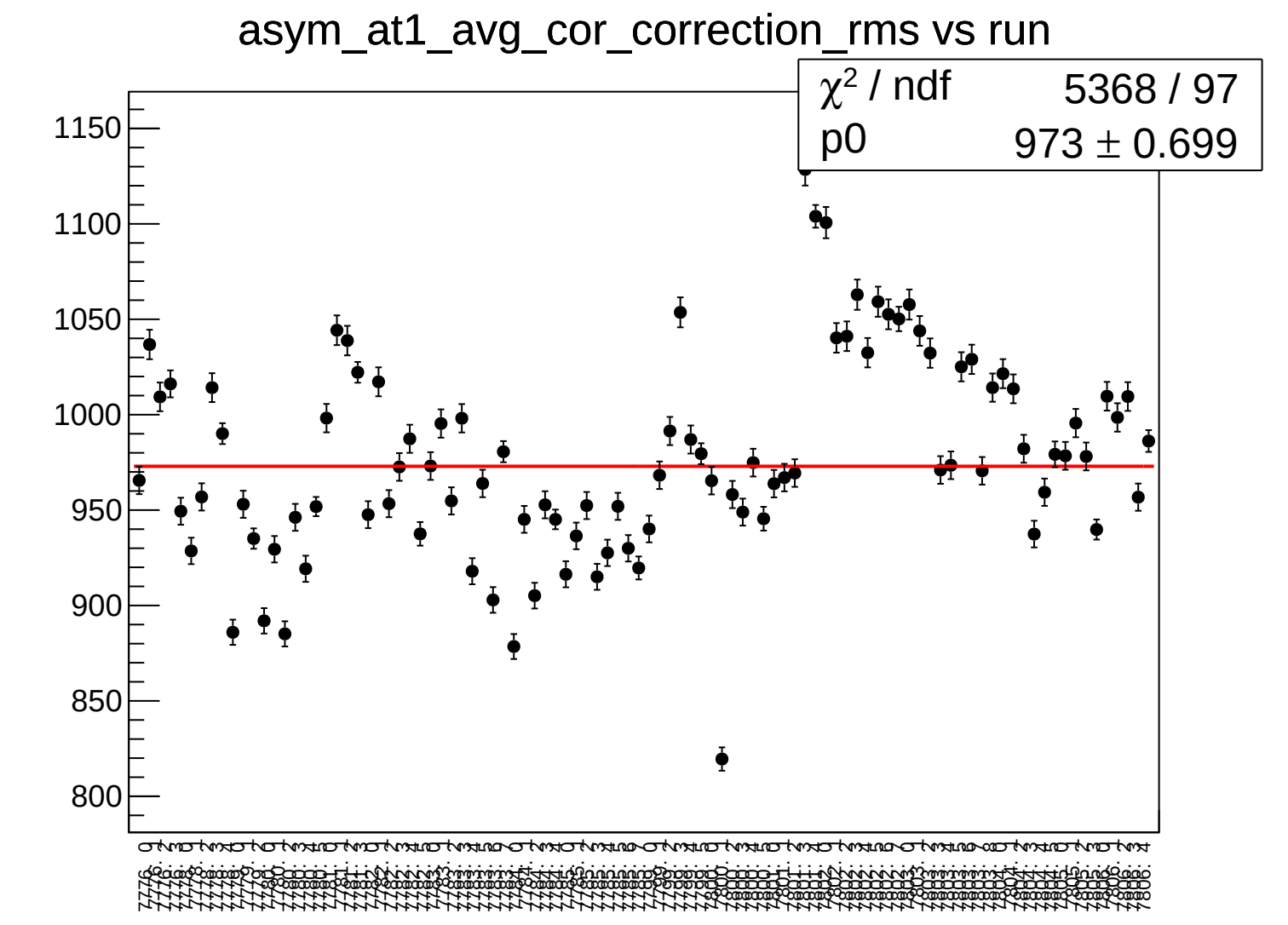

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 5366 / 97
p0 972.9 ± 0.699
1150
1100
1050
1000
950
900
850
800

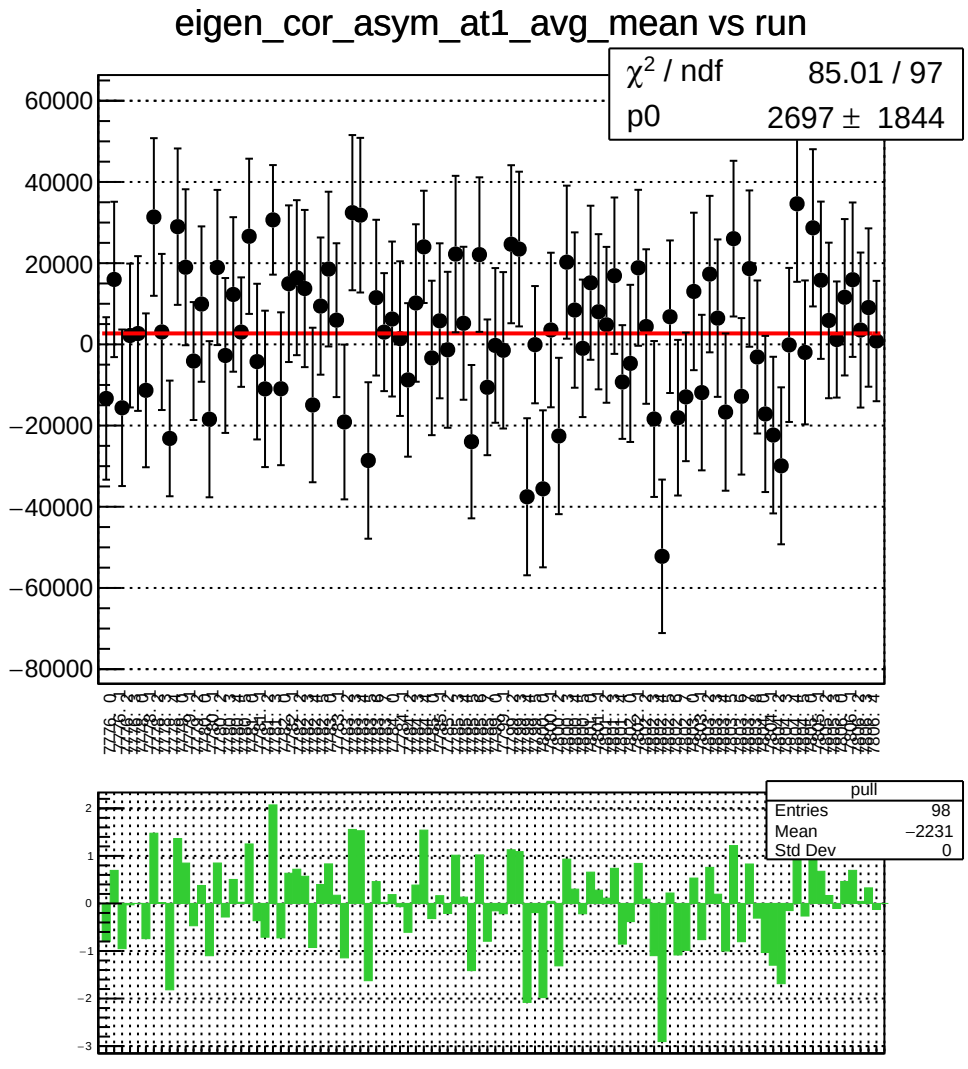

cor_asym_at1_avg_mean vs run
χ² / ndf 85.01 / 97
p0 2697 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −2231
Std Dev 0
2
1
0
−1
−2
−3

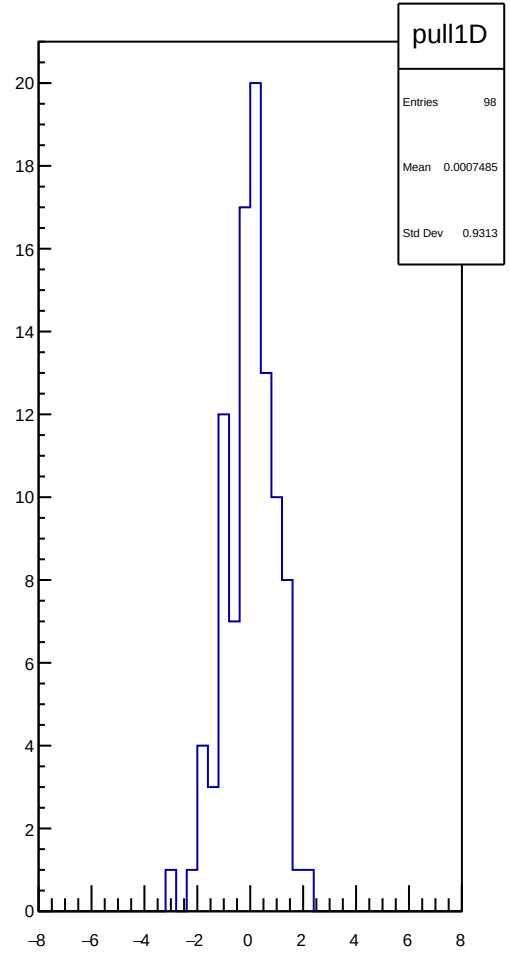

pull1D
Entries 98
Mean 0.0007485
Std Dev 0.9313
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

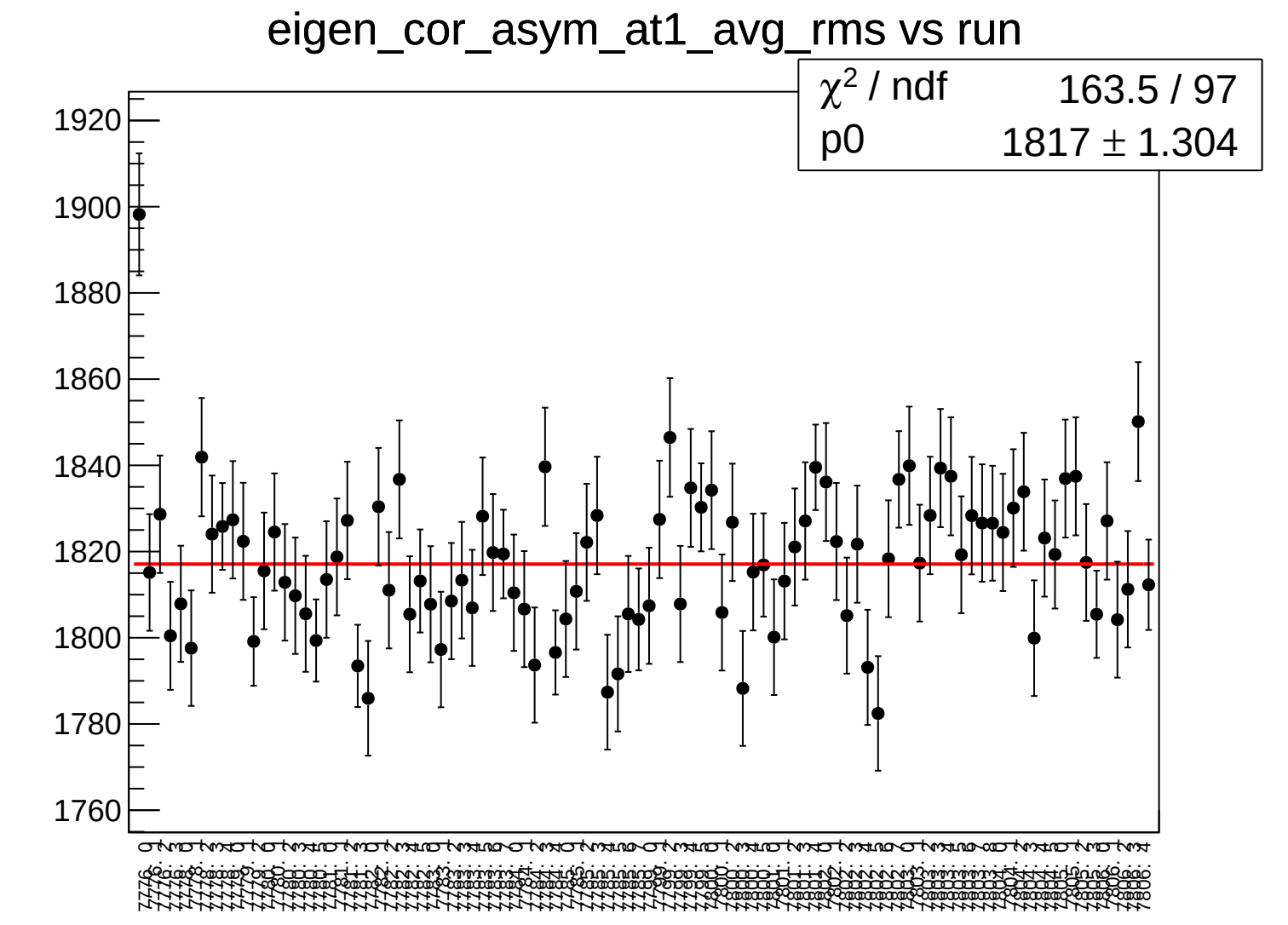

cor_asym_at1_avg_rms vs run
χ^2 / ndf 163.5 / 97
p0 1817 ± 1.304
1920
1900
1880
1860
1840
1820
1800
1780
1760

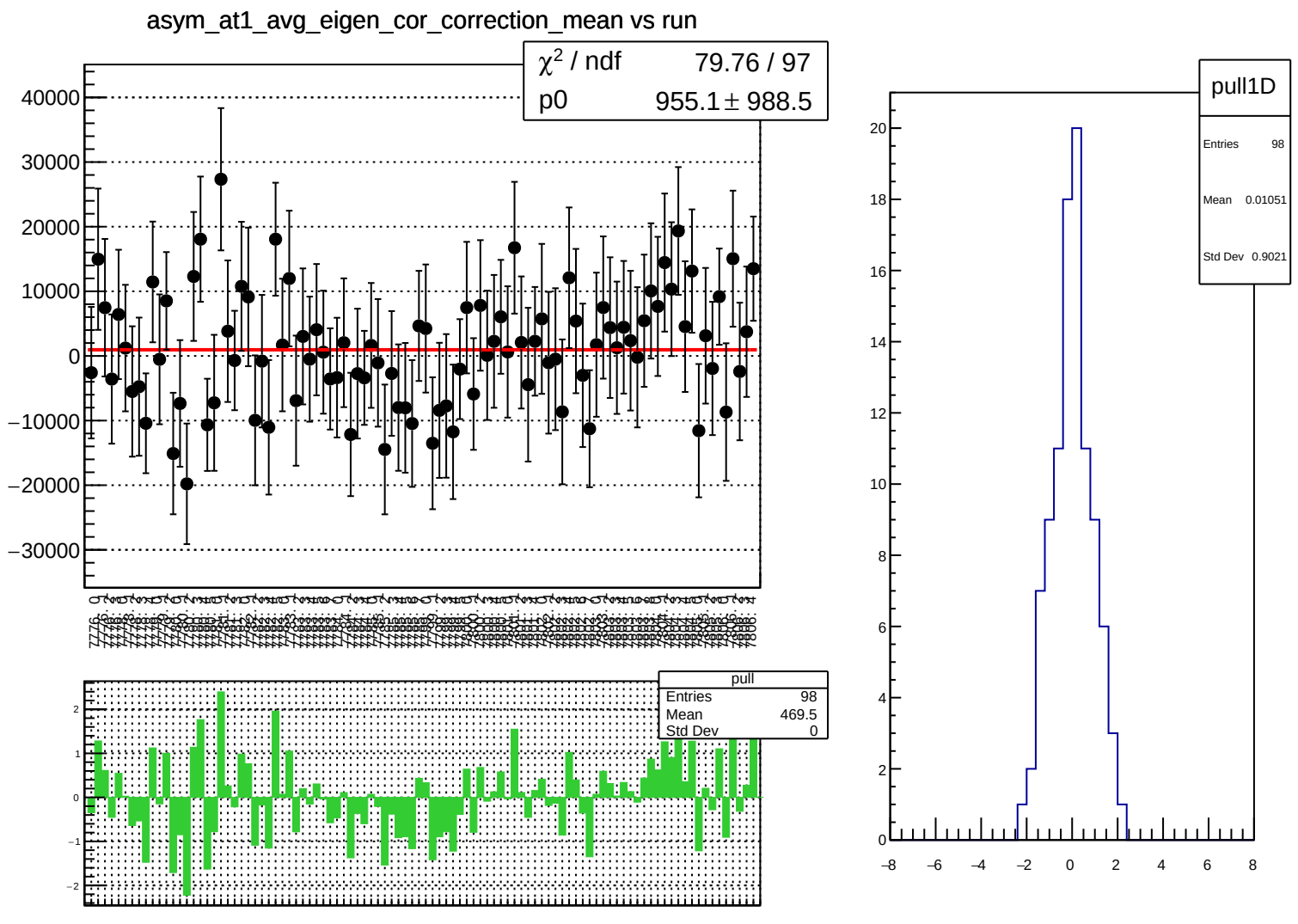

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 79.76 / 97
p0 955.1 ± 988.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 469.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01051
Std Dev 0.9021
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

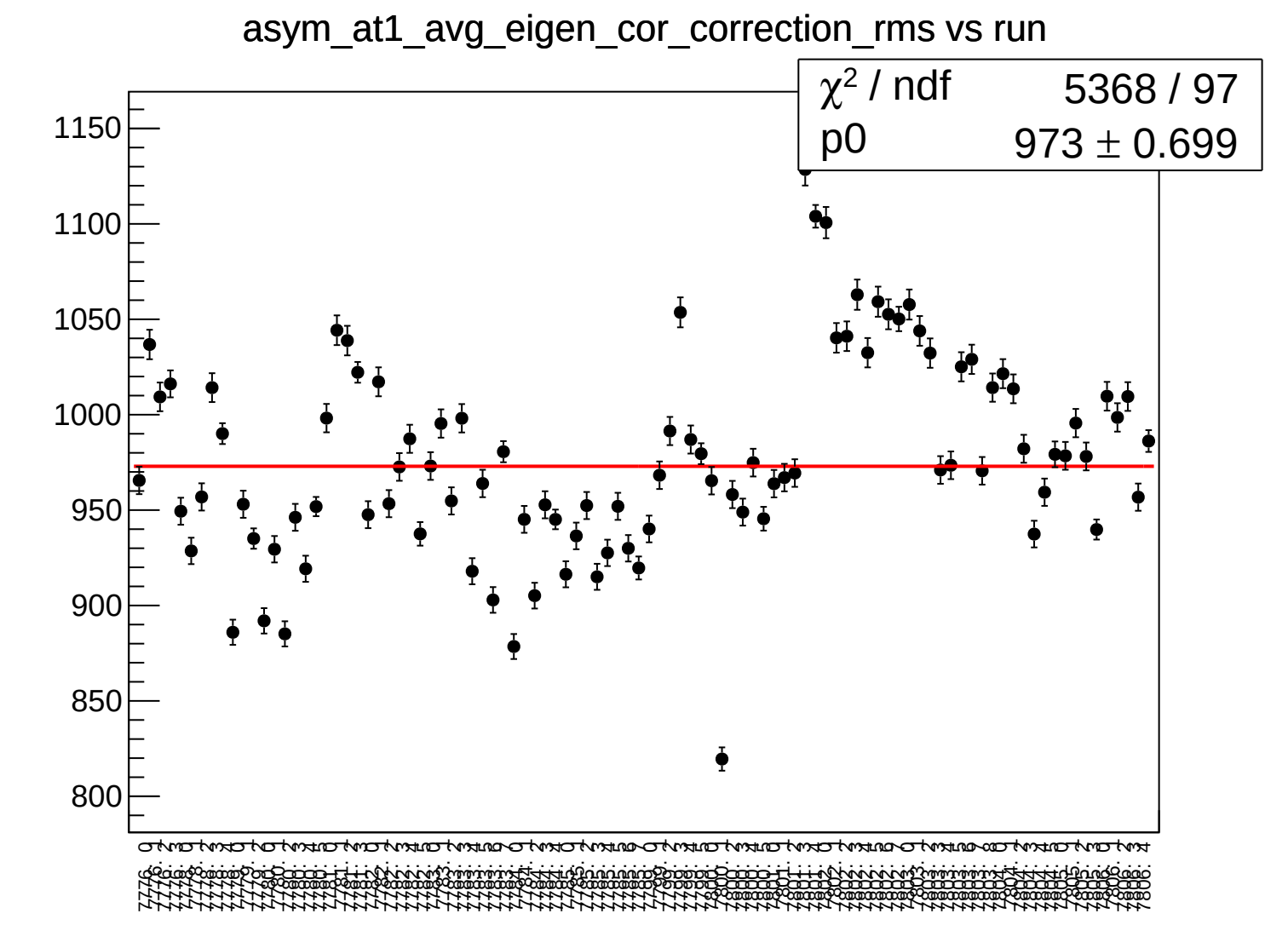

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 5368 / 97
p0 973 ± 0.699
1150
1100
1050
1000
950
900
850
800

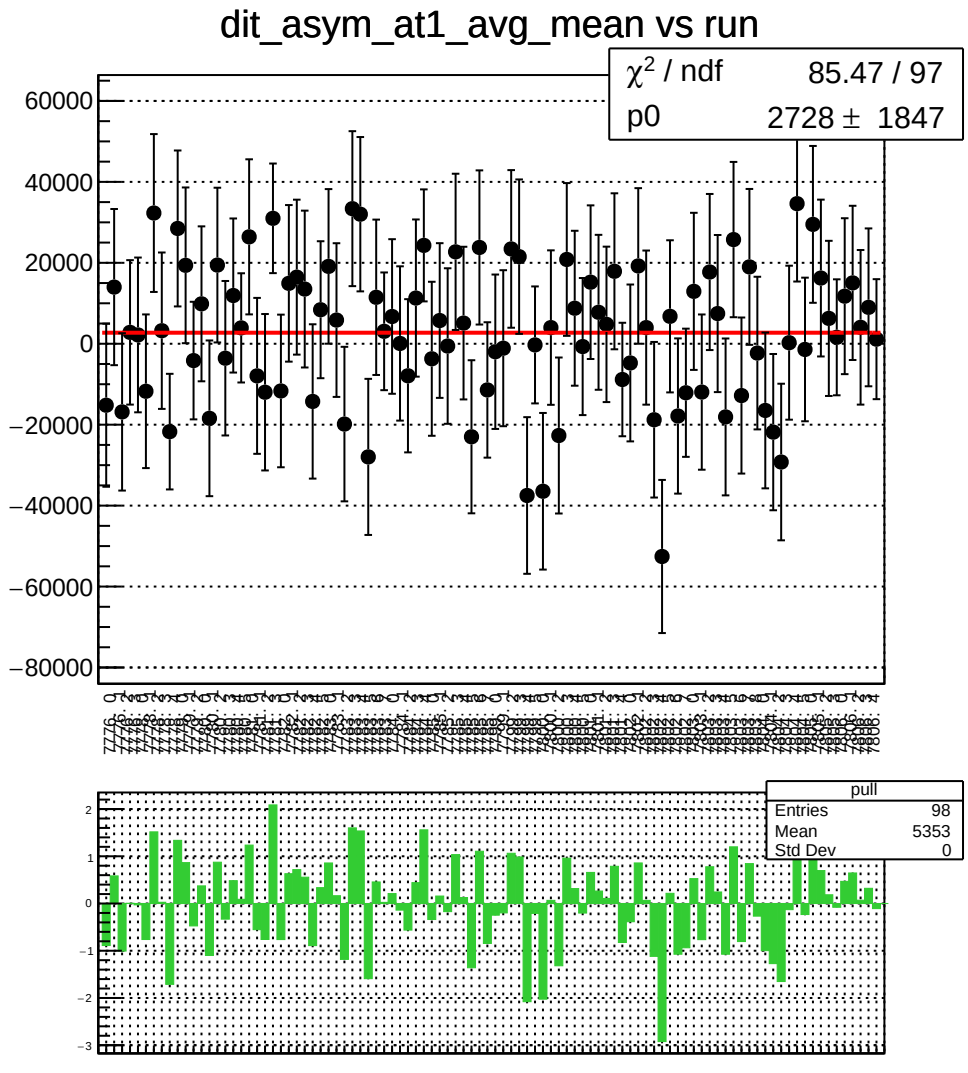

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 85.01 / 97
p0 2697 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −2231
Std Dev 0
2
1
0
−1
−2
−3

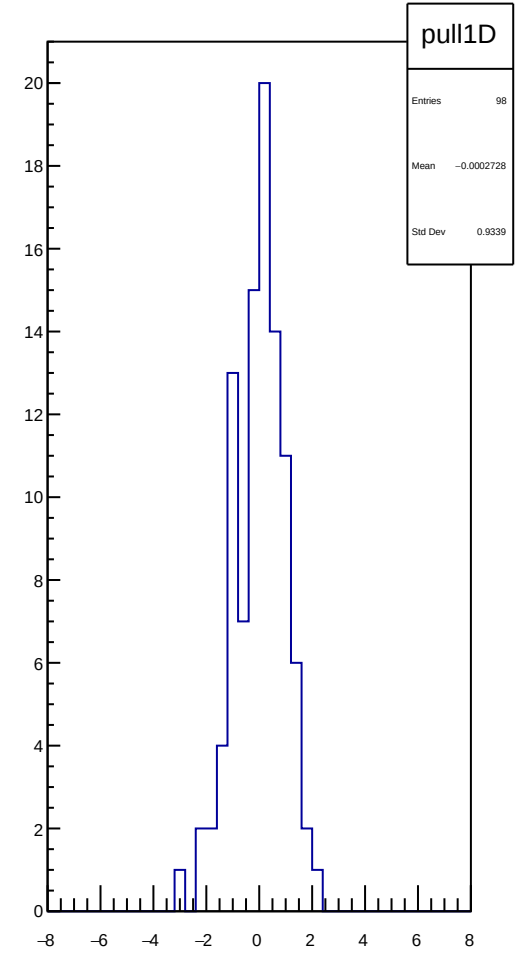

pull1D
Entries 98
Mean 0.0007485
Std Dev 0.9313
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

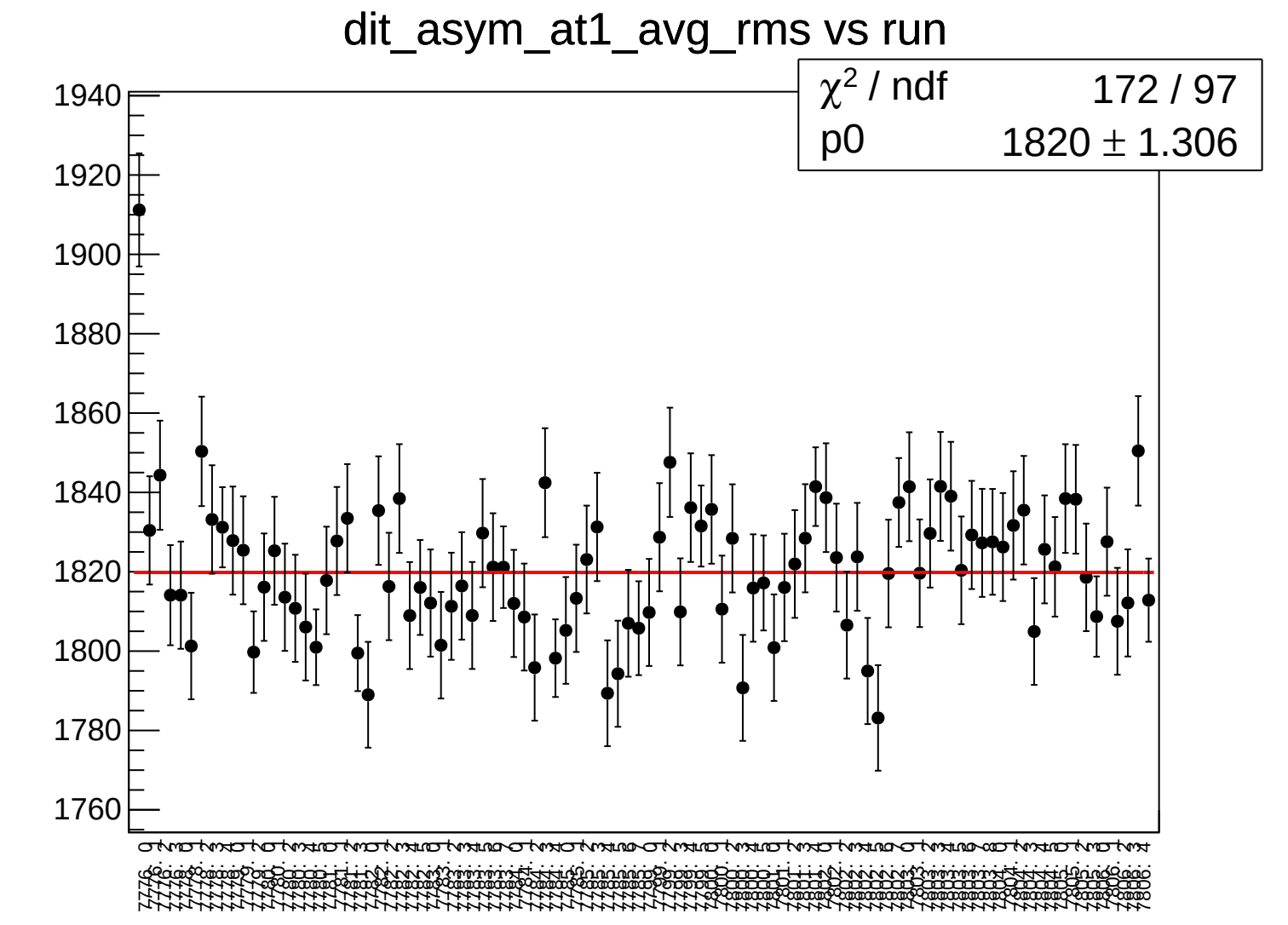

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 163.5 / 97
p0 1817 ± 1.304
1920
1900
1880
1860
1840
1820
1800
1780
1760

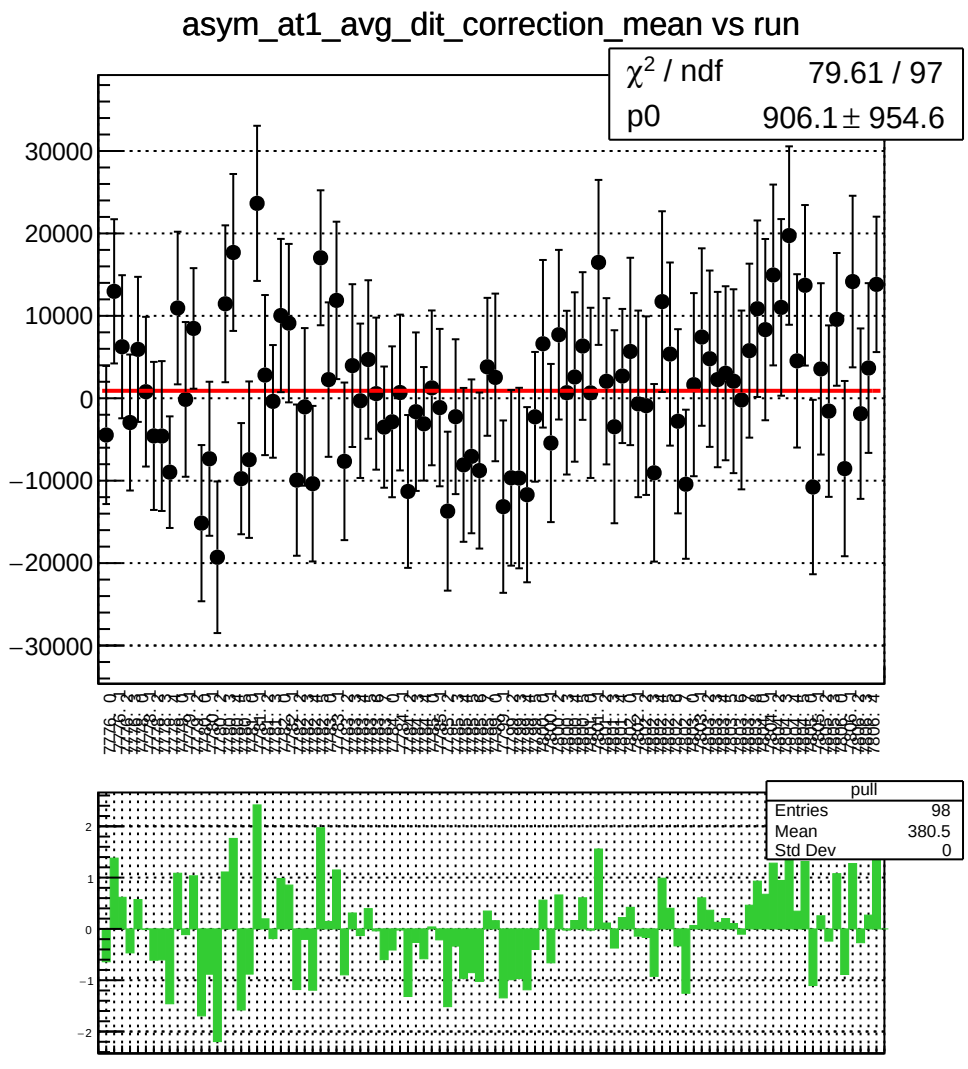

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.76 / 97
p0 955.1 ± 988.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 469.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01051
Std Dev 0.9021
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

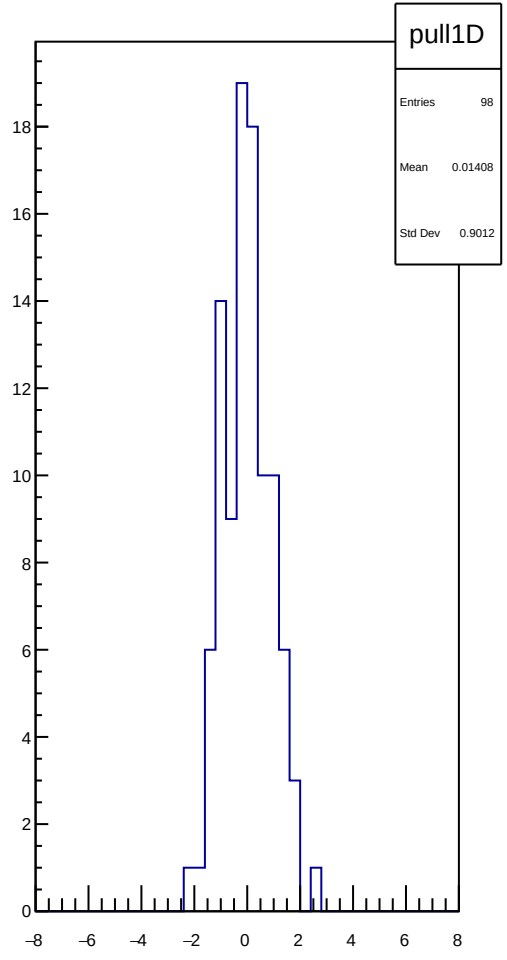

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 5368 / 97
p0 973 ± 0.699
1150
1100
1050
1000
950
900
850
800

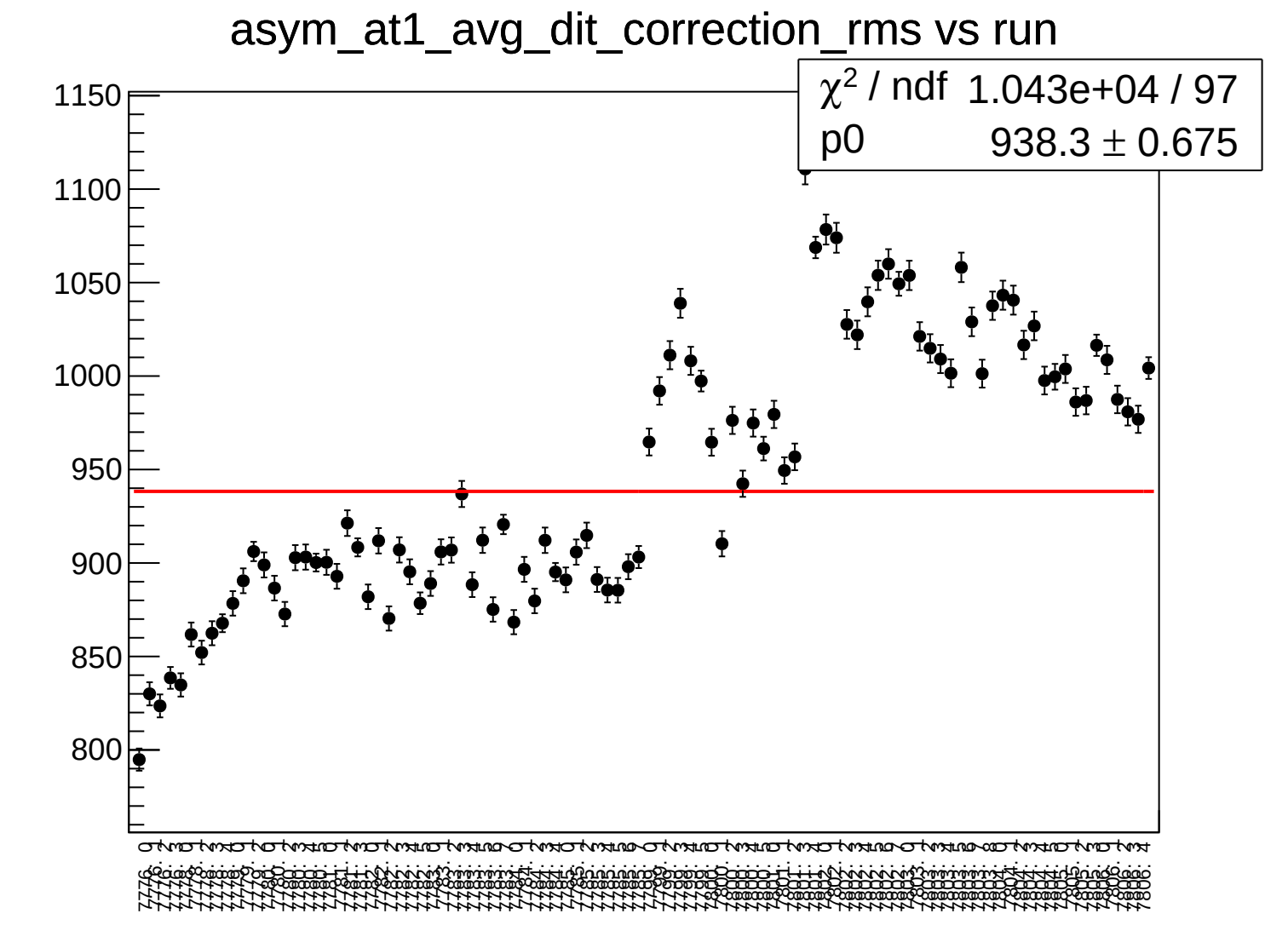

dit_asym_at1_avg_mean vs run
χ² / ndf 85.47 / 97
p0 2728 ± 1847
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 5353
Std Dev 0
2
1
0
−1
−2
−3

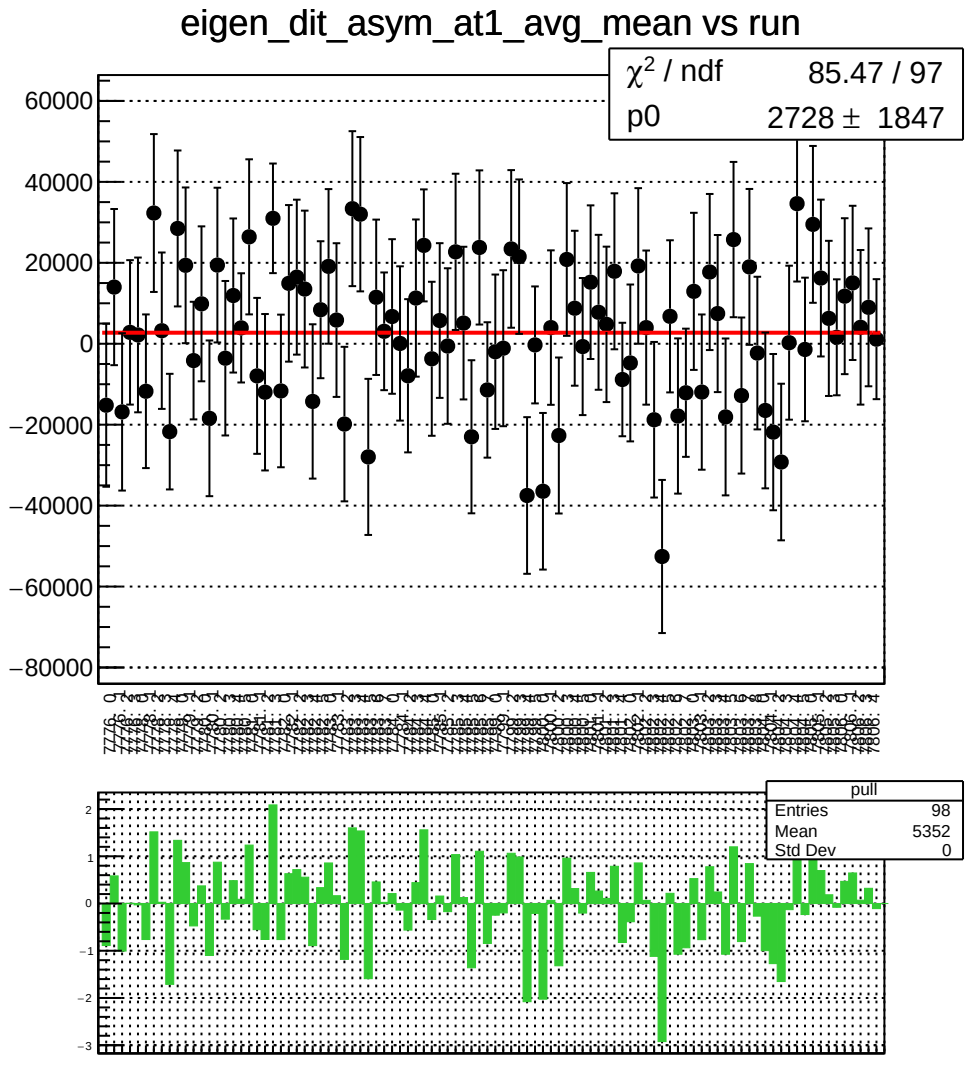

pull1D
Entries 98
Mean −0.0002728
Std Dev 0.9339
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

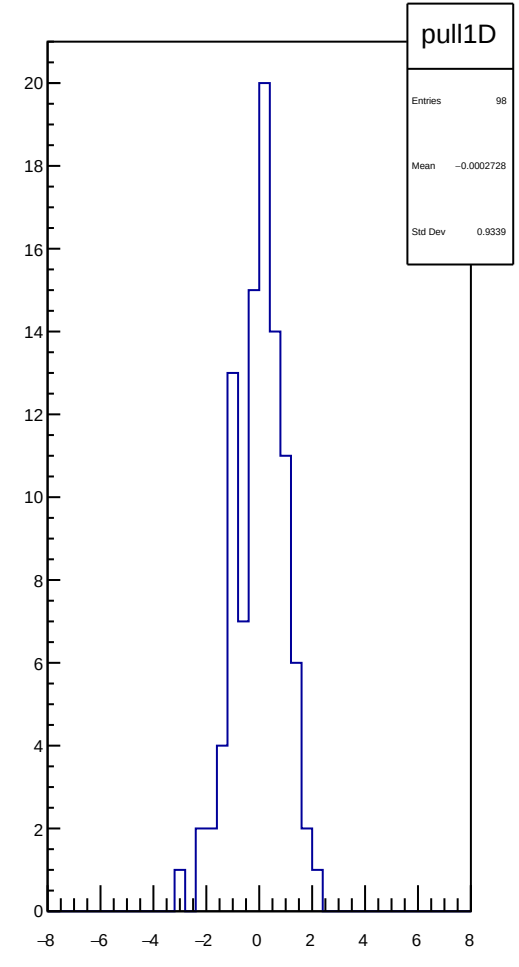

dit_asym_at1_avg_rms vs run
χ² / ndf 172 / 97
p0 1820 ± 1.306
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

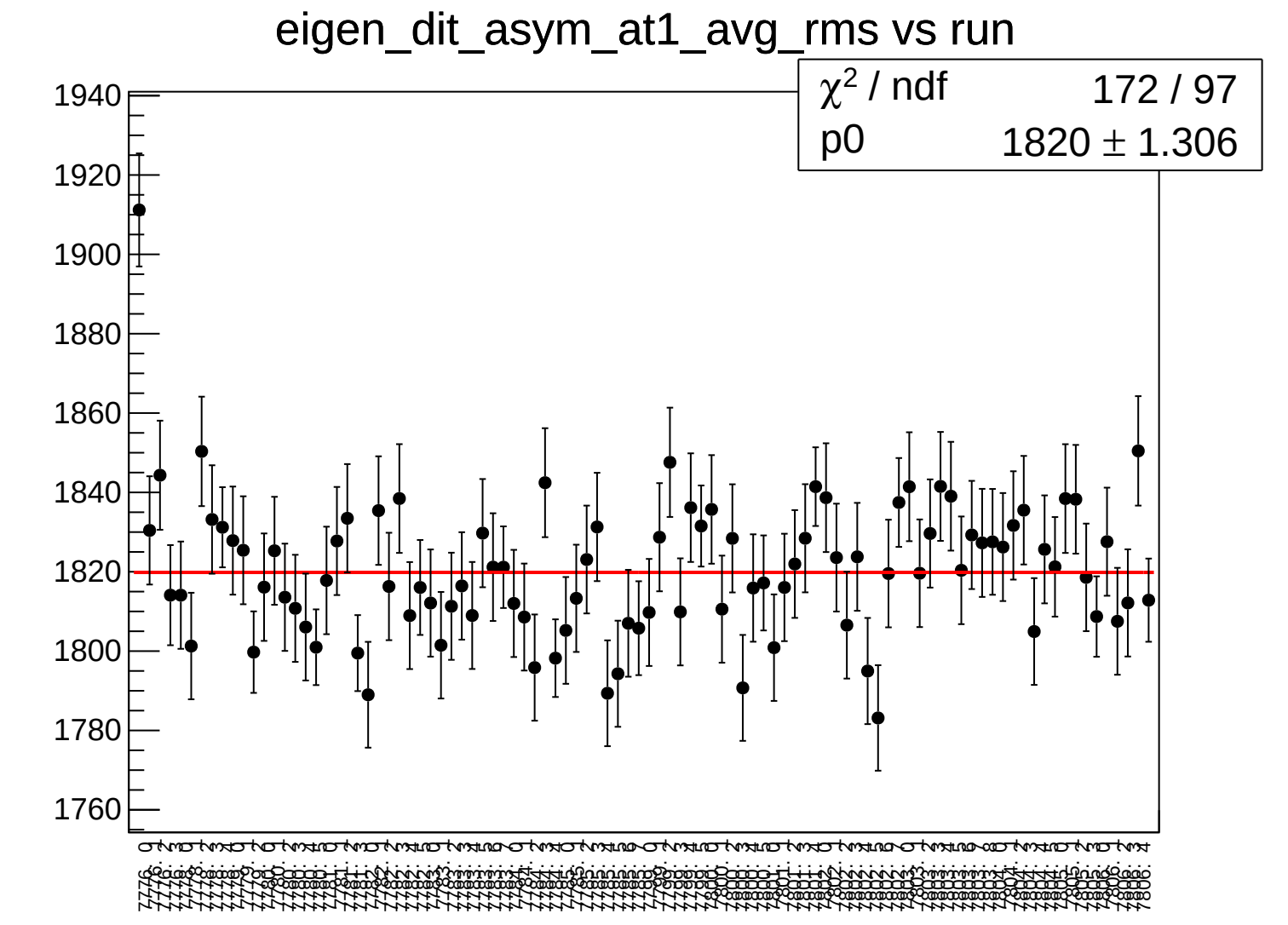

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 79.61 / 97
p0 906.1 ± 954.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 380.5
Std Dev 0
2
1
0
−1
−2

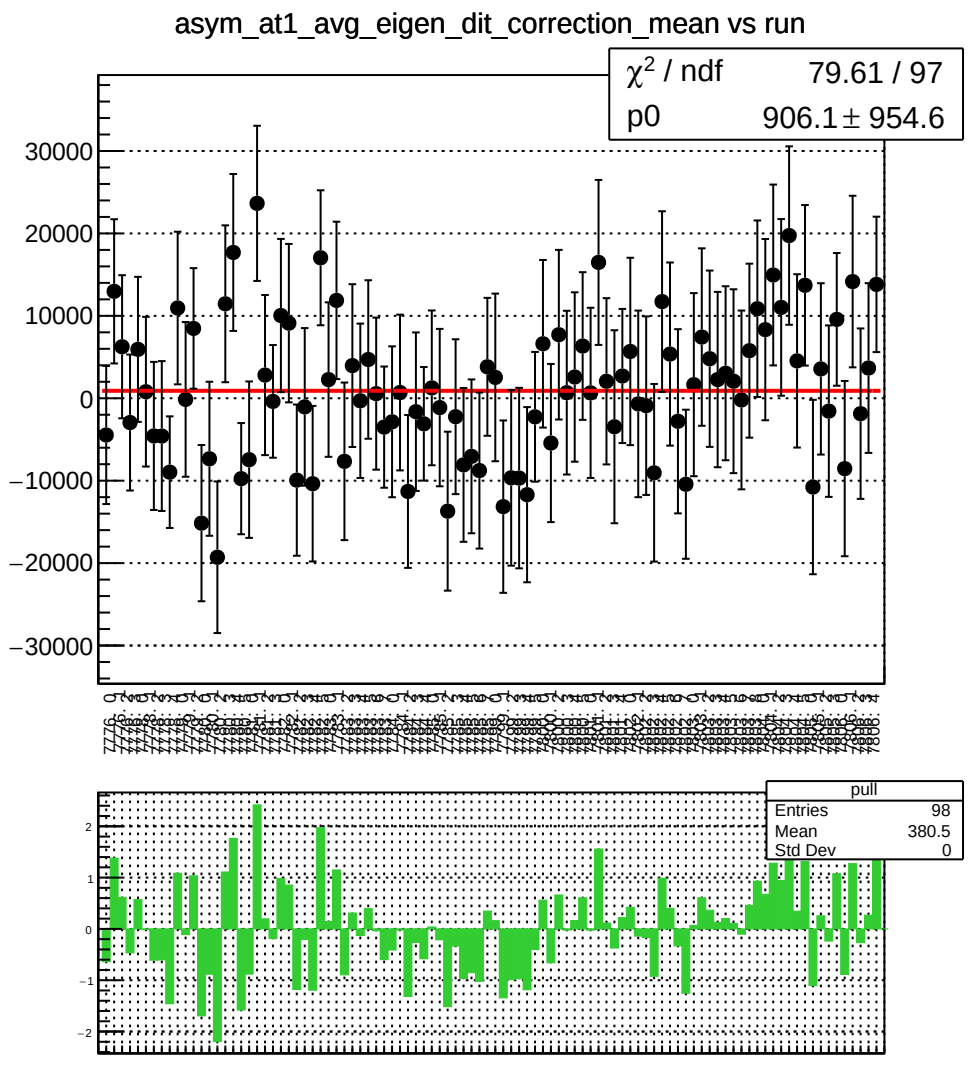

pull1D
Entries 98
Mean 0.01408
Std Dev 0.9012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

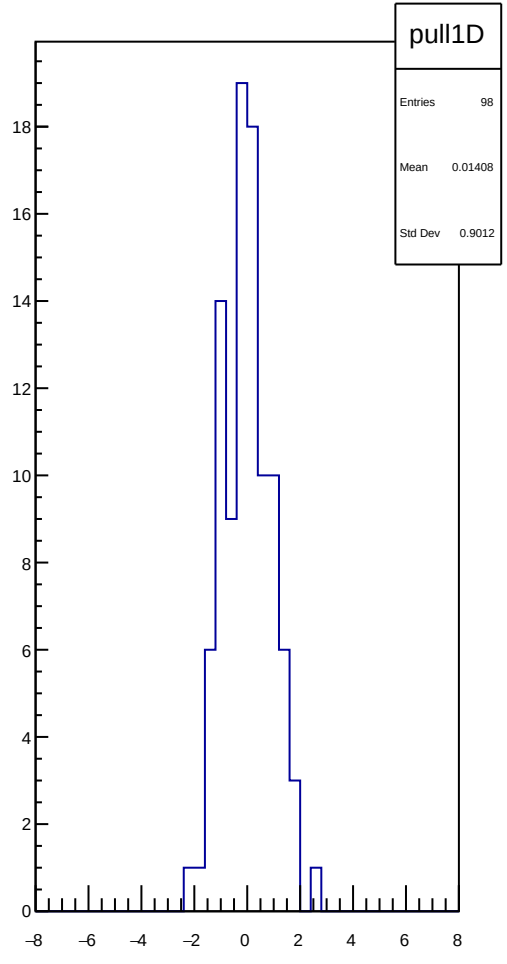

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.043e+04 / 97
p0 938.3 ± 0.675
1150
1100
1050
1000
950
900
850
800

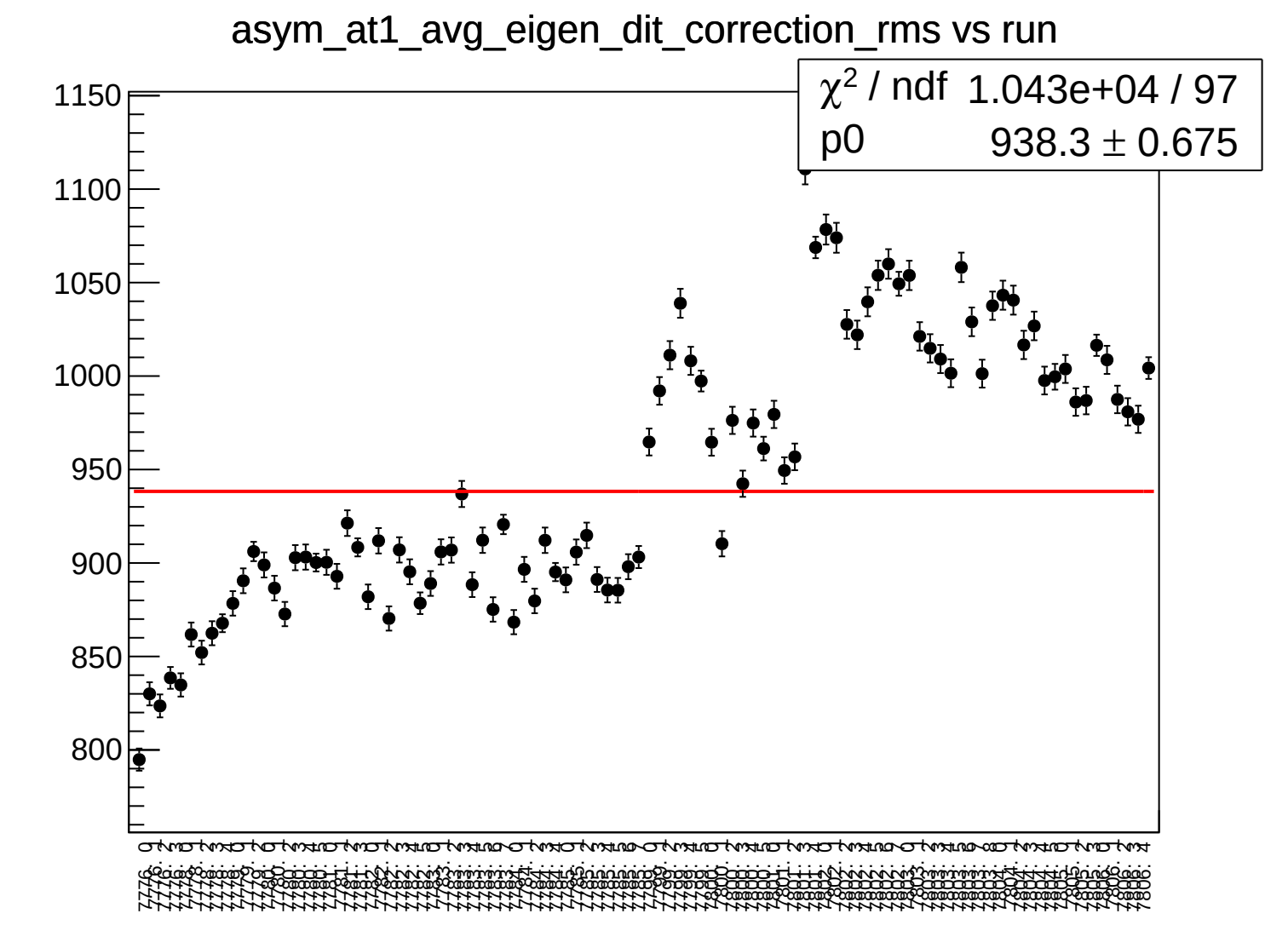

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 85.47 / 97
p0 2728 ± 1847
pull
Entries 98
Mean 5352
Std Dev 0

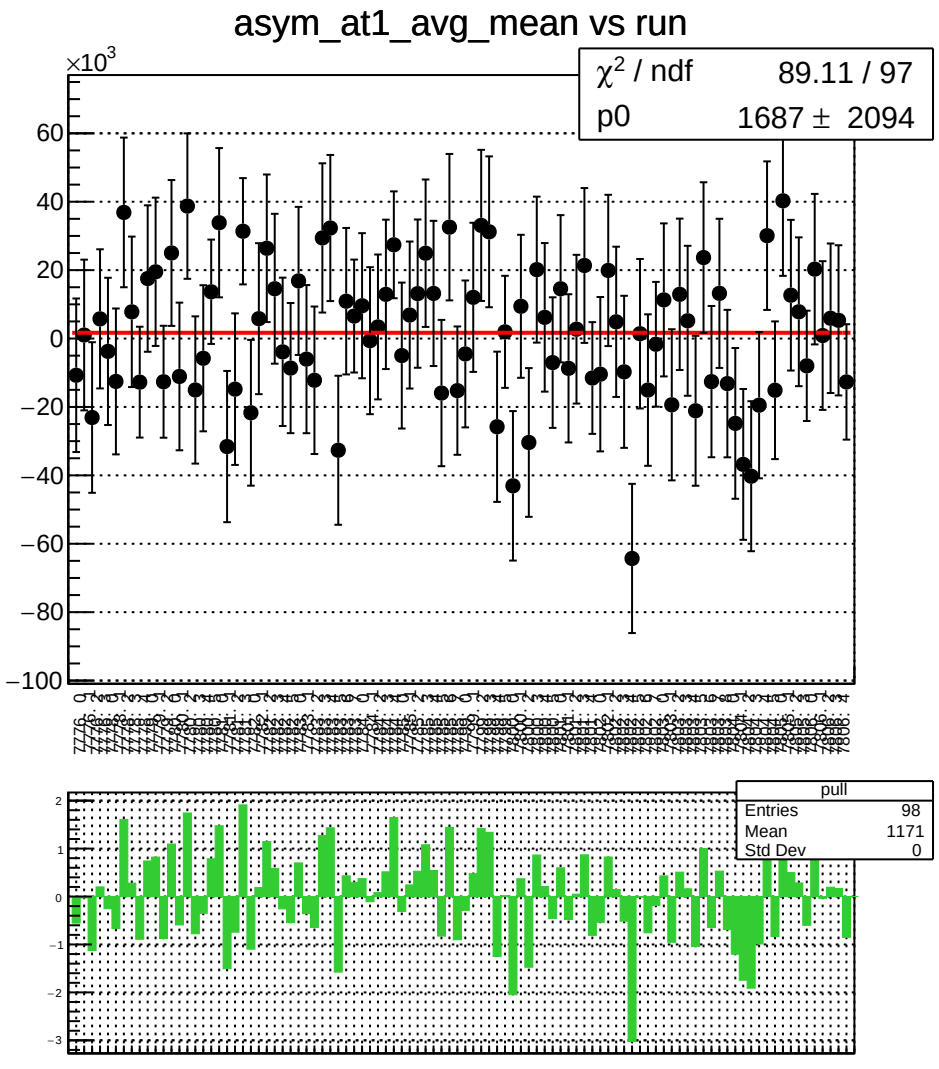

pull1D
Entries 98
Mean −0.0002728
Std Dev 0.9339

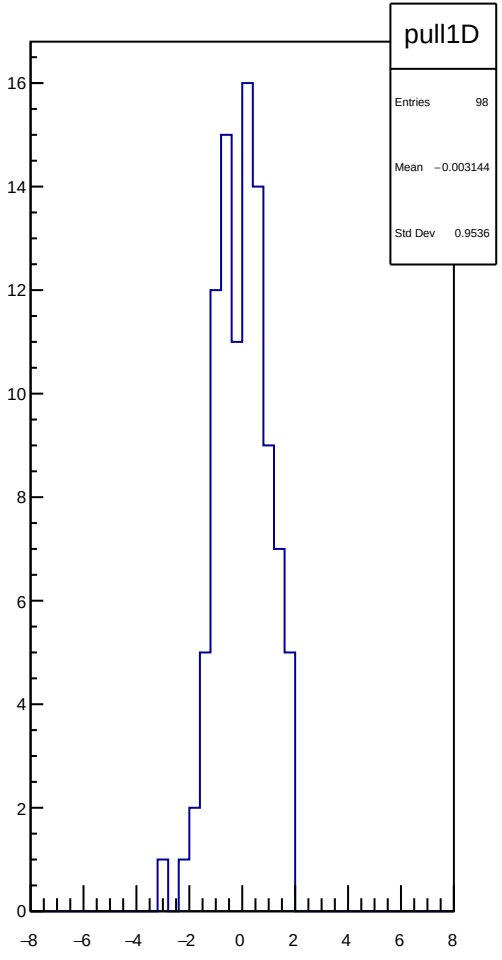

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 172 / 97
p0 1820 ± 1.306
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

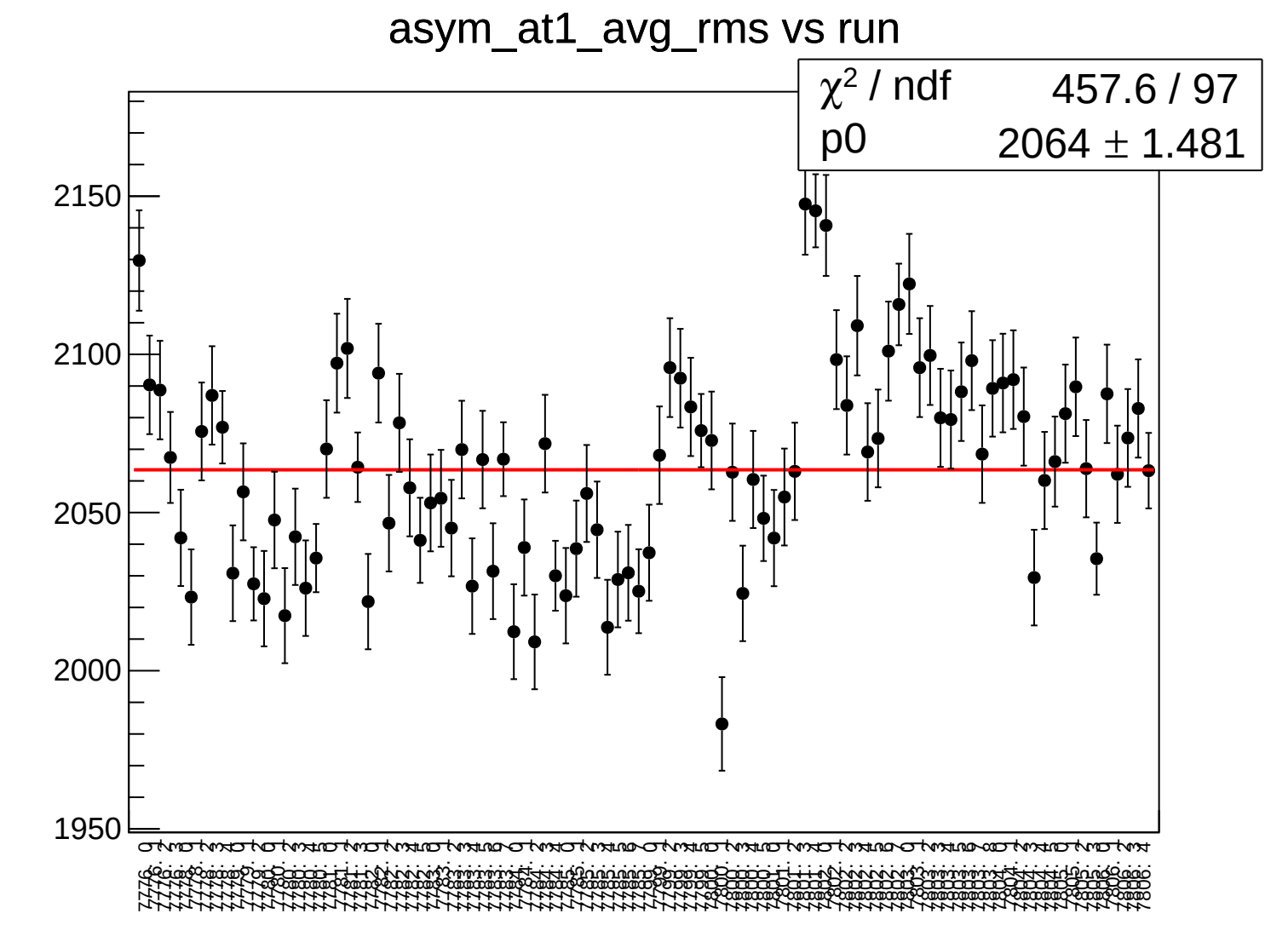

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.61 / 97
p0 906.1 ± 954.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 380.5
Std Dev 0
2
1
0
−1
−2

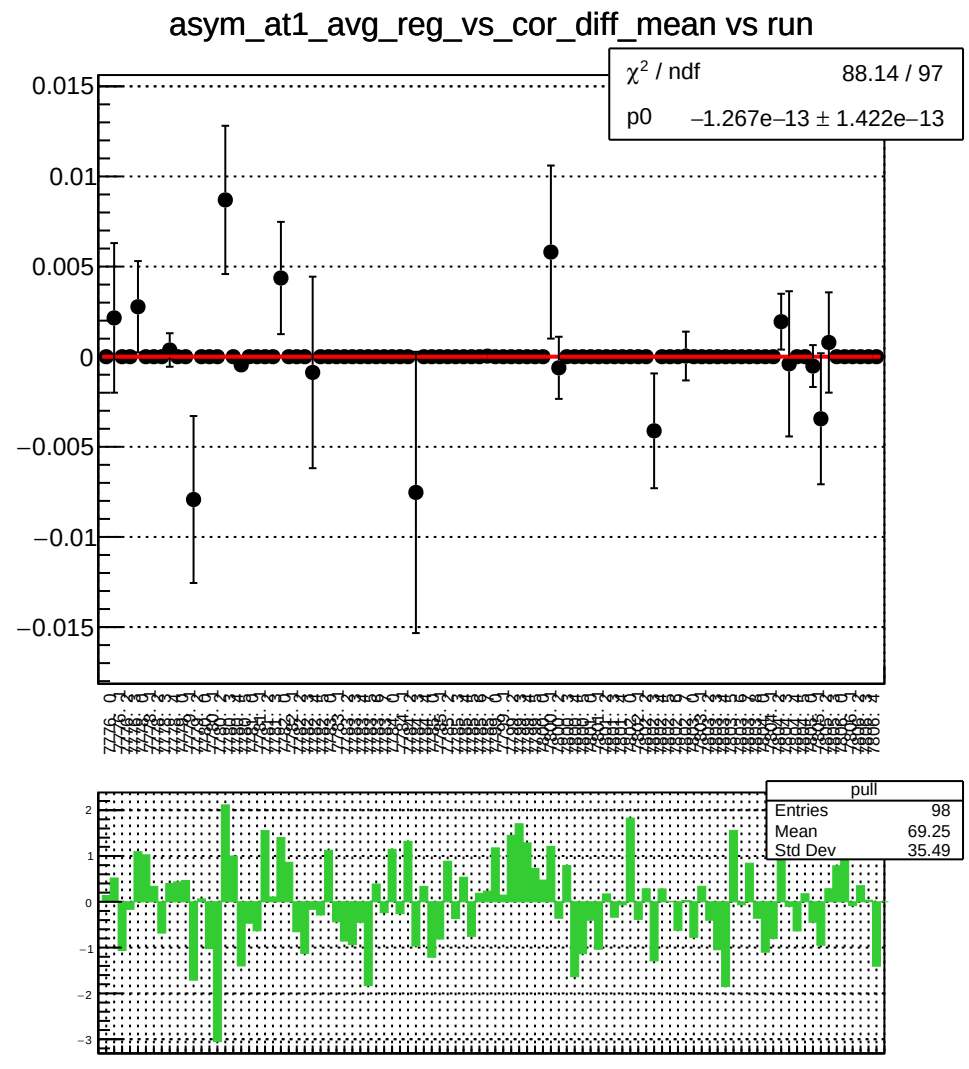

pull1D
Entries 98
Mean 0.01408
Std Dev 0.9012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

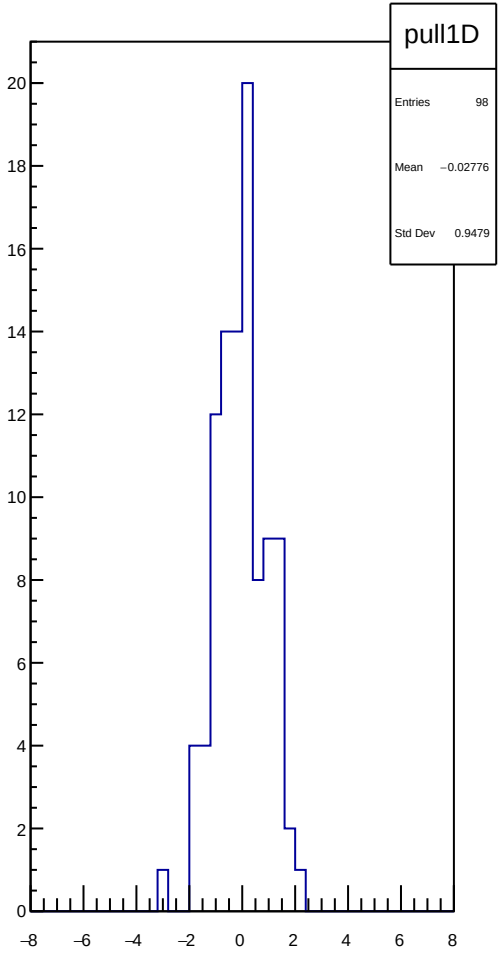

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.043e+04 / 97
p0 938.3 ± 0.675
1150
1100
1050
1000
950
900
850
800

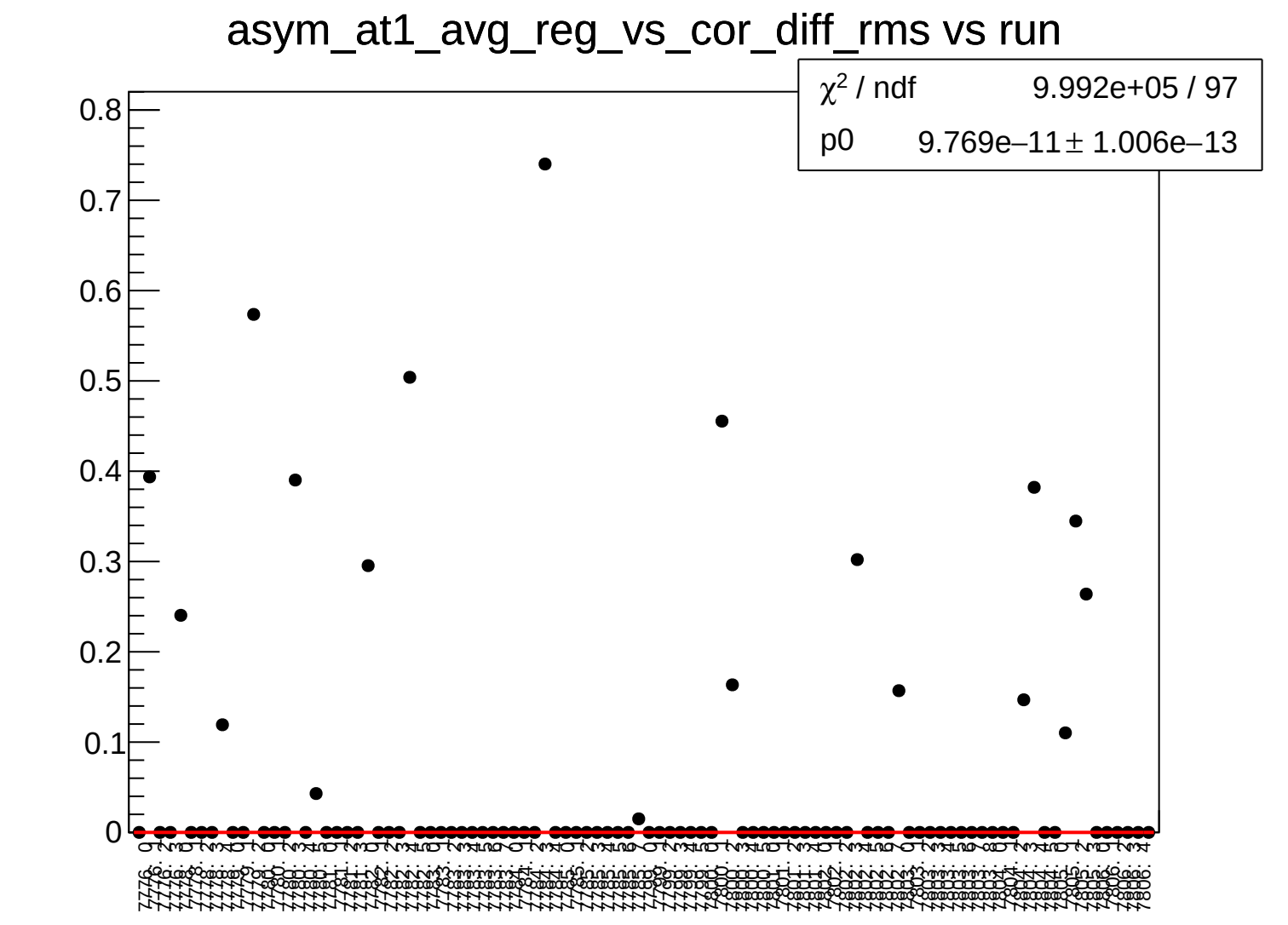

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 89.11 / 97
p0 1687 ± 2094
pull
Entries 98
Mean 1171
Std Dev 0

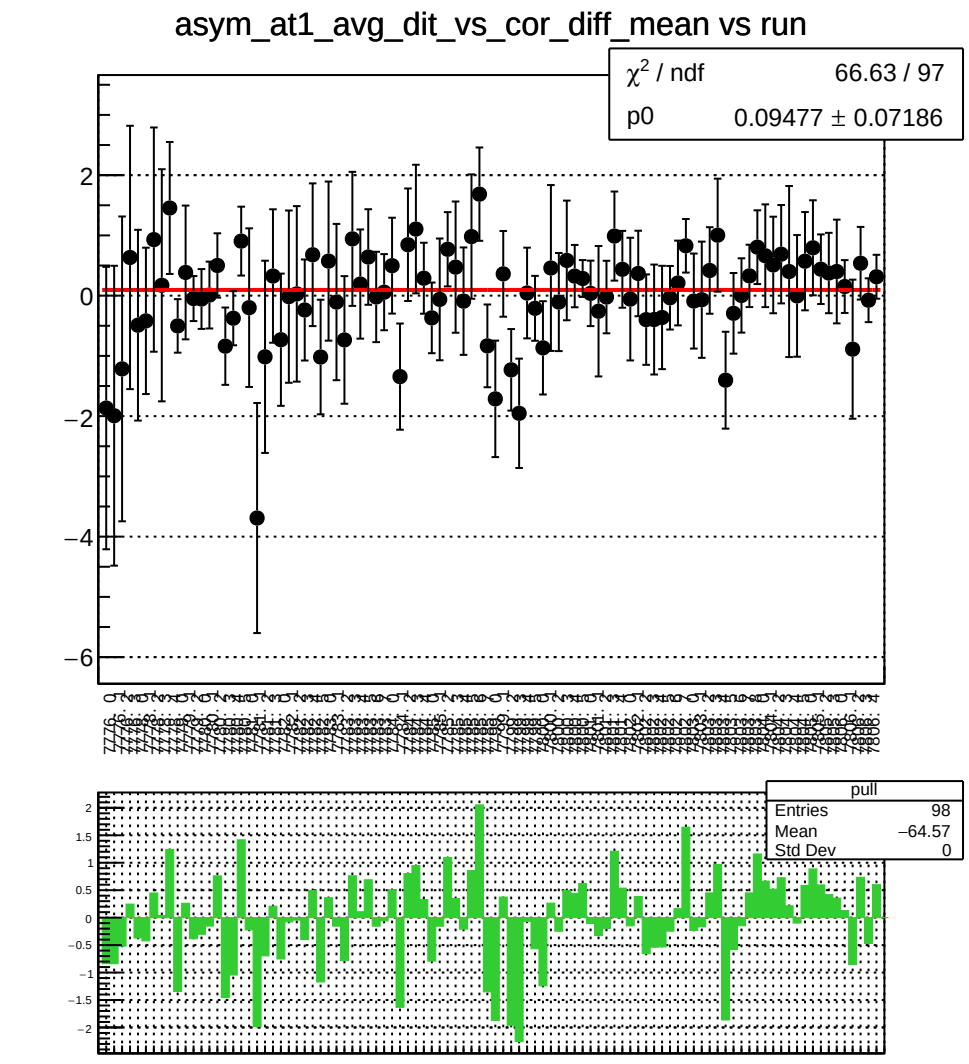

pull1D
Entries 98
Mean −0.003144
Std Dev 0.9536

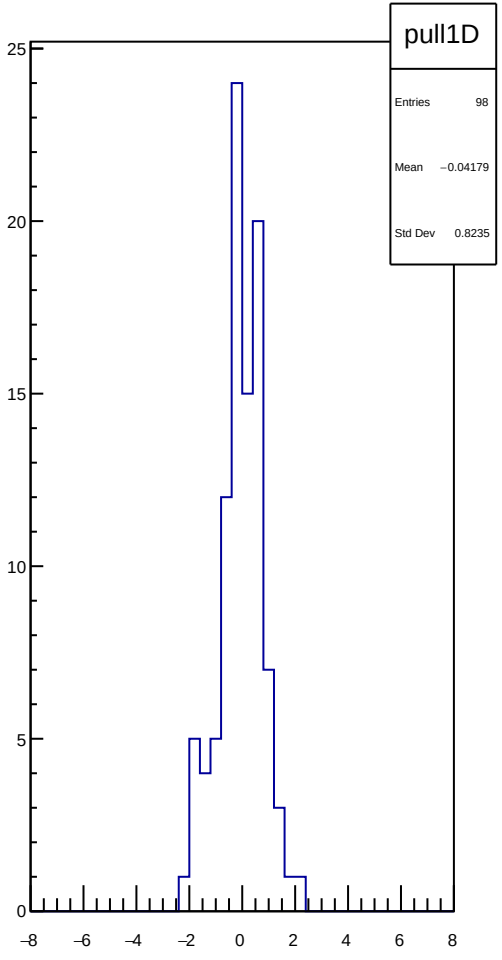

asym_at1_avg_rms vs run
χ² / ndf 457.6 / 97
p0 2064 ± 1.481
2150
2100
2050
2000
1950

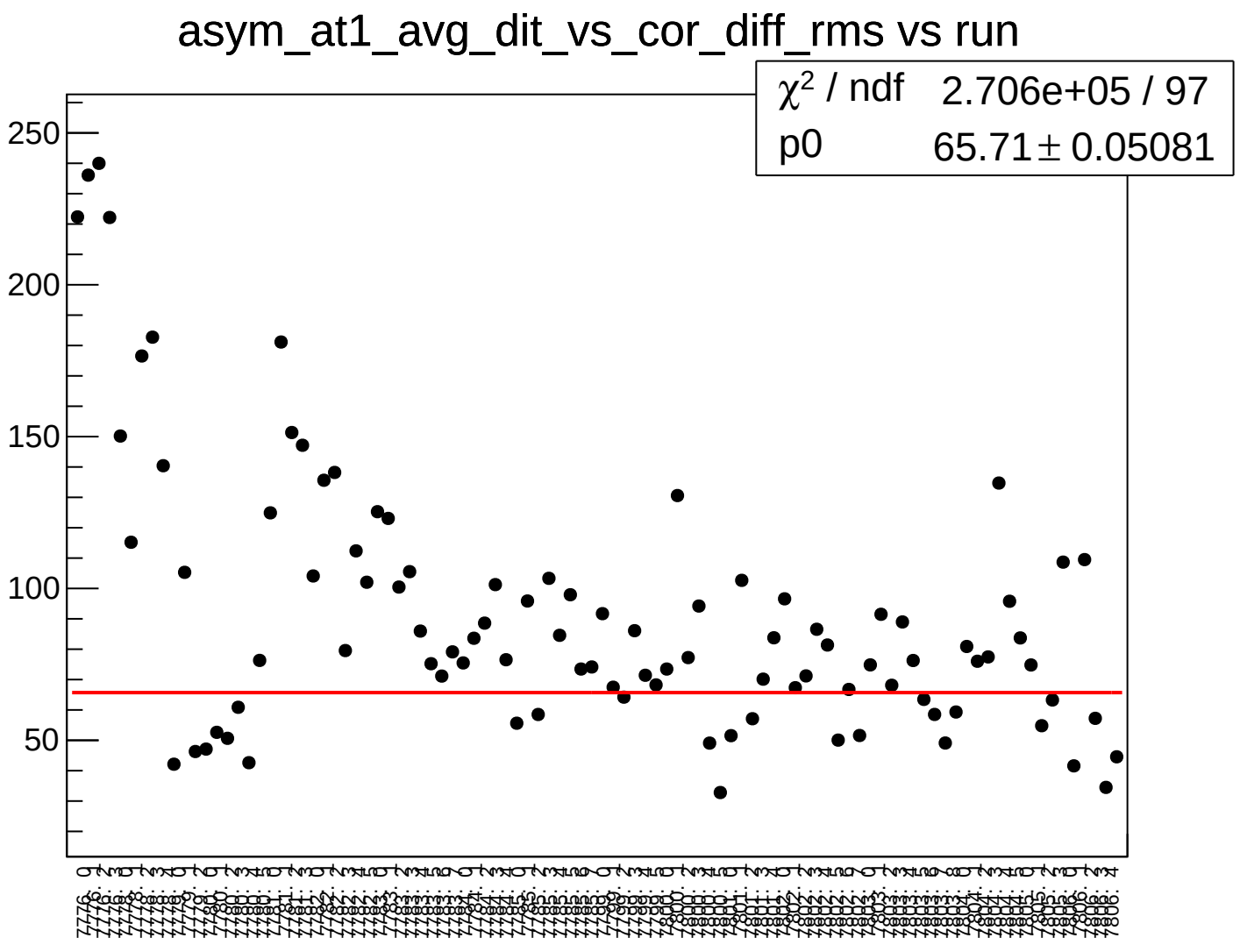

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.14 / 97
p0 −1.267e−13 ± 1.422e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 98
Mean 69.25
Std Dev 35.49
2
1
0
−1
−2
−3

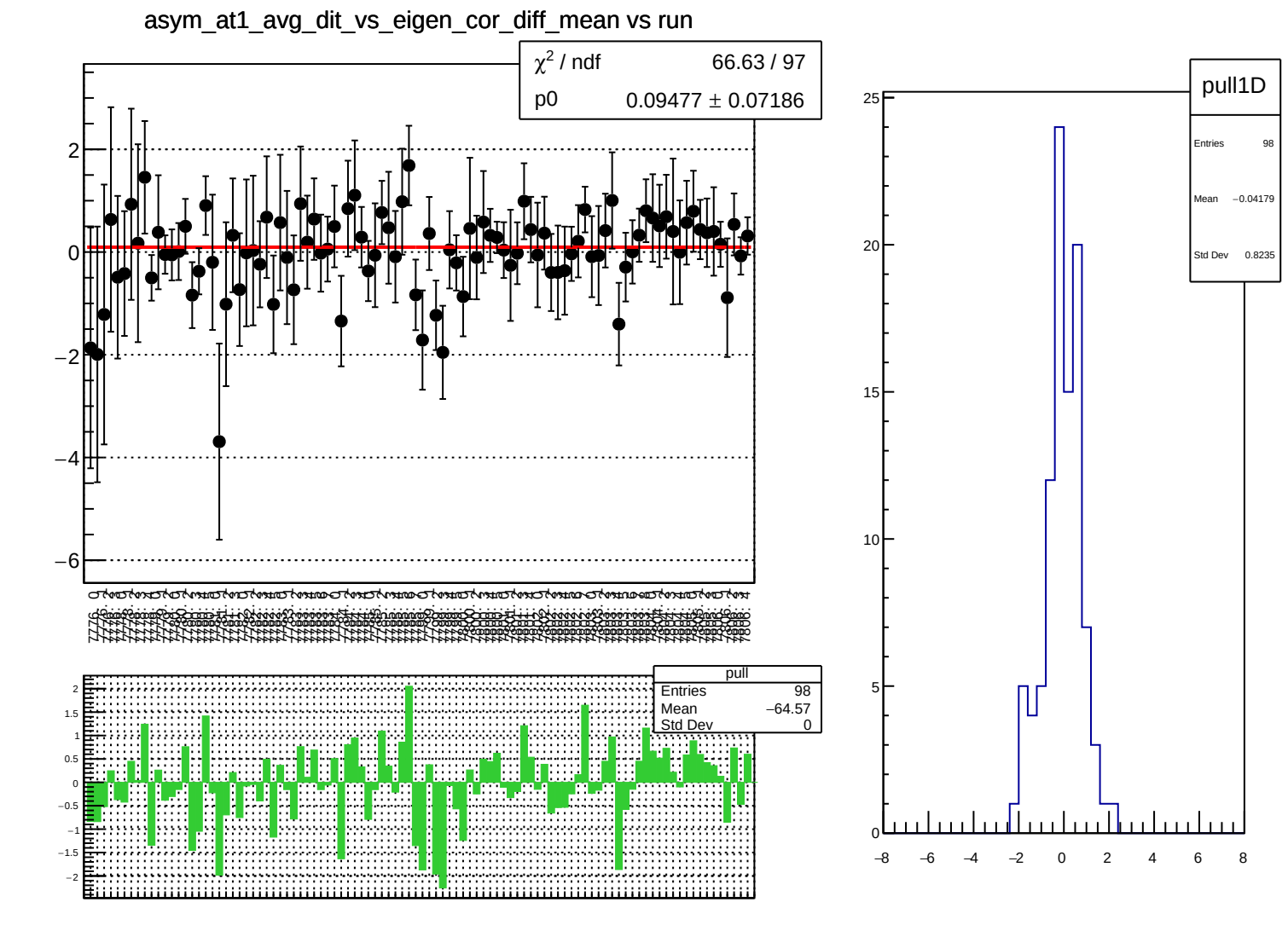

pull1D
Entries 98
Mean −0.02776
Std Dev 0.9479
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

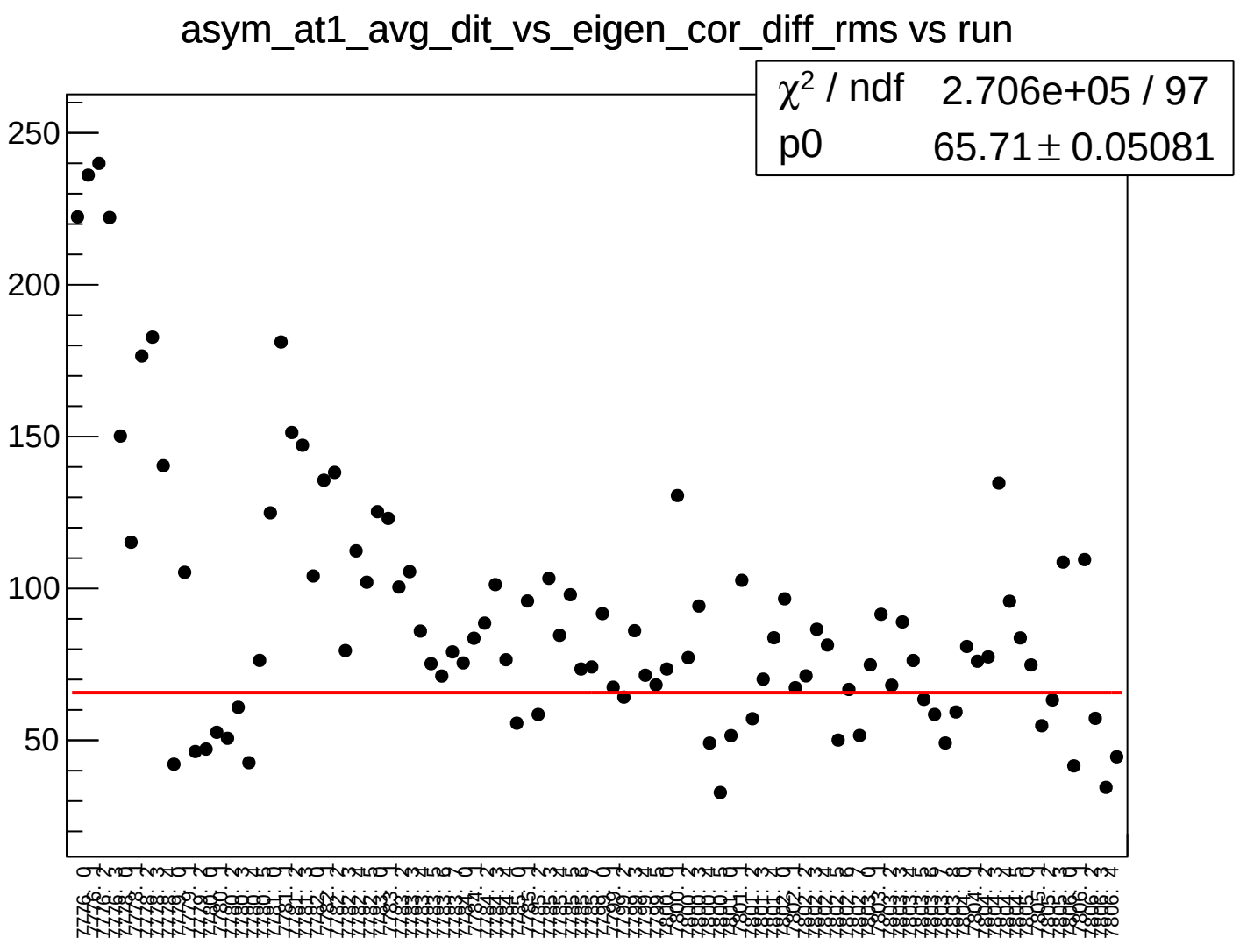

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.992e+05 / 97
p0 9.769e−11 ± 1.006e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

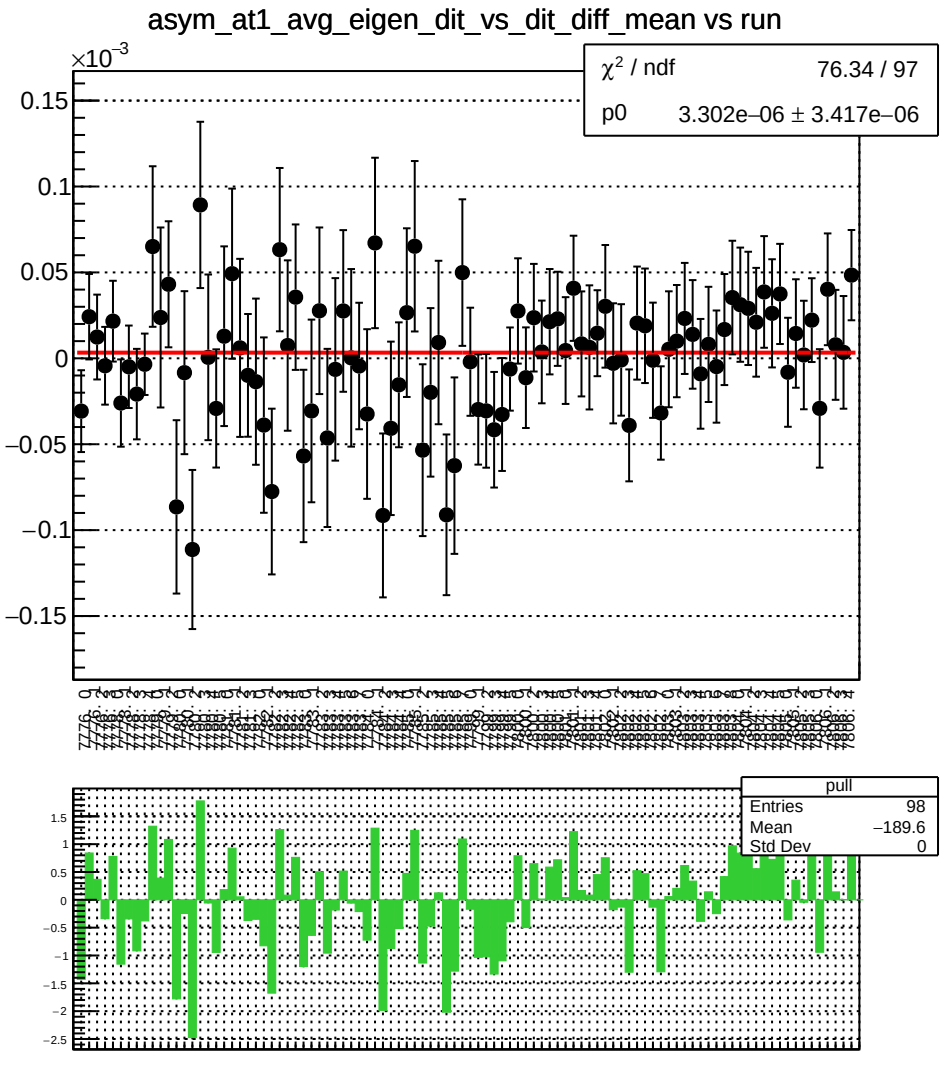

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.63 / 97
p0 0.09477 ± 0.07186
pull
Entries 98
Mean −64.57
Std Dev 0

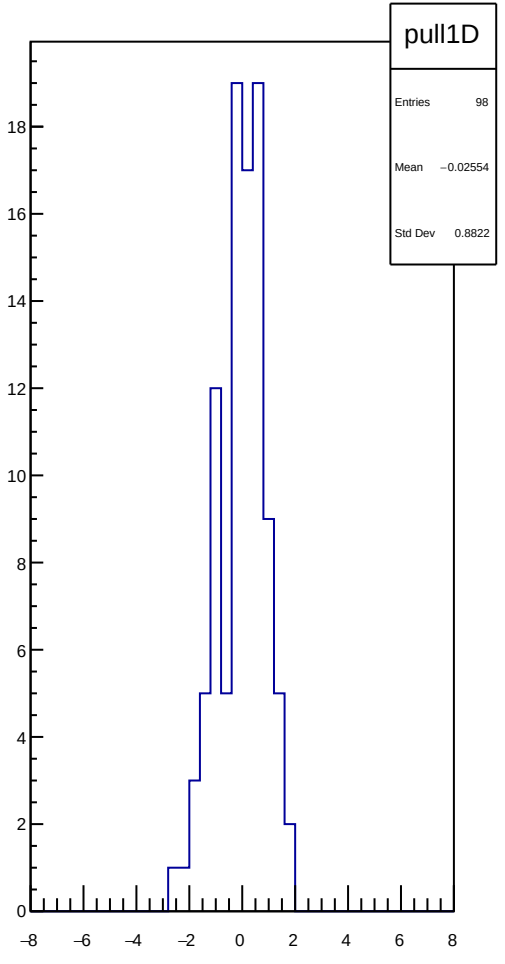

pull1D
Entries 98
Mean −0.04179
Std Dev 0.8235

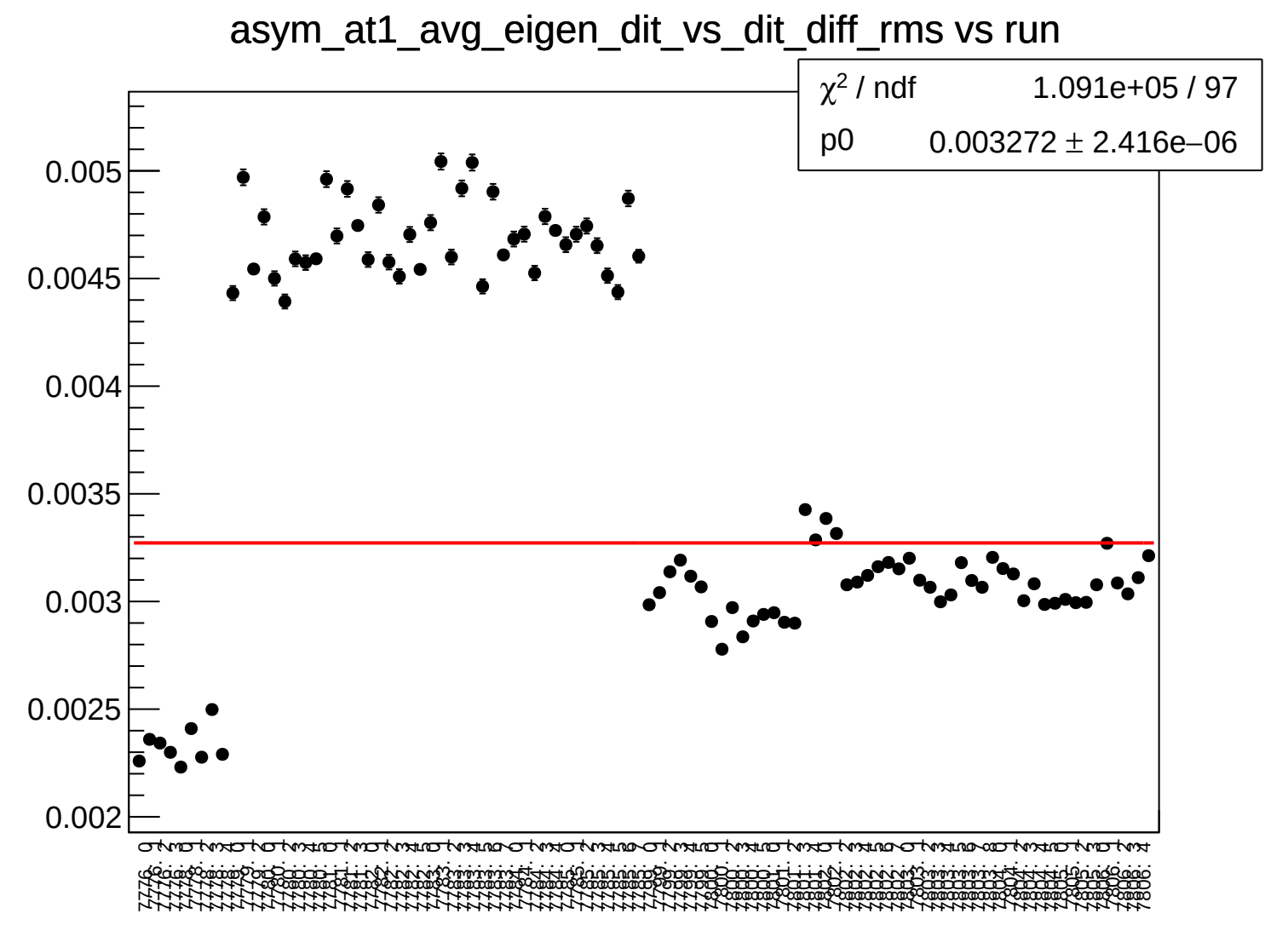

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.706e+05 / 97
p0 65.71 ± 0.05081
250
200
150
100
50

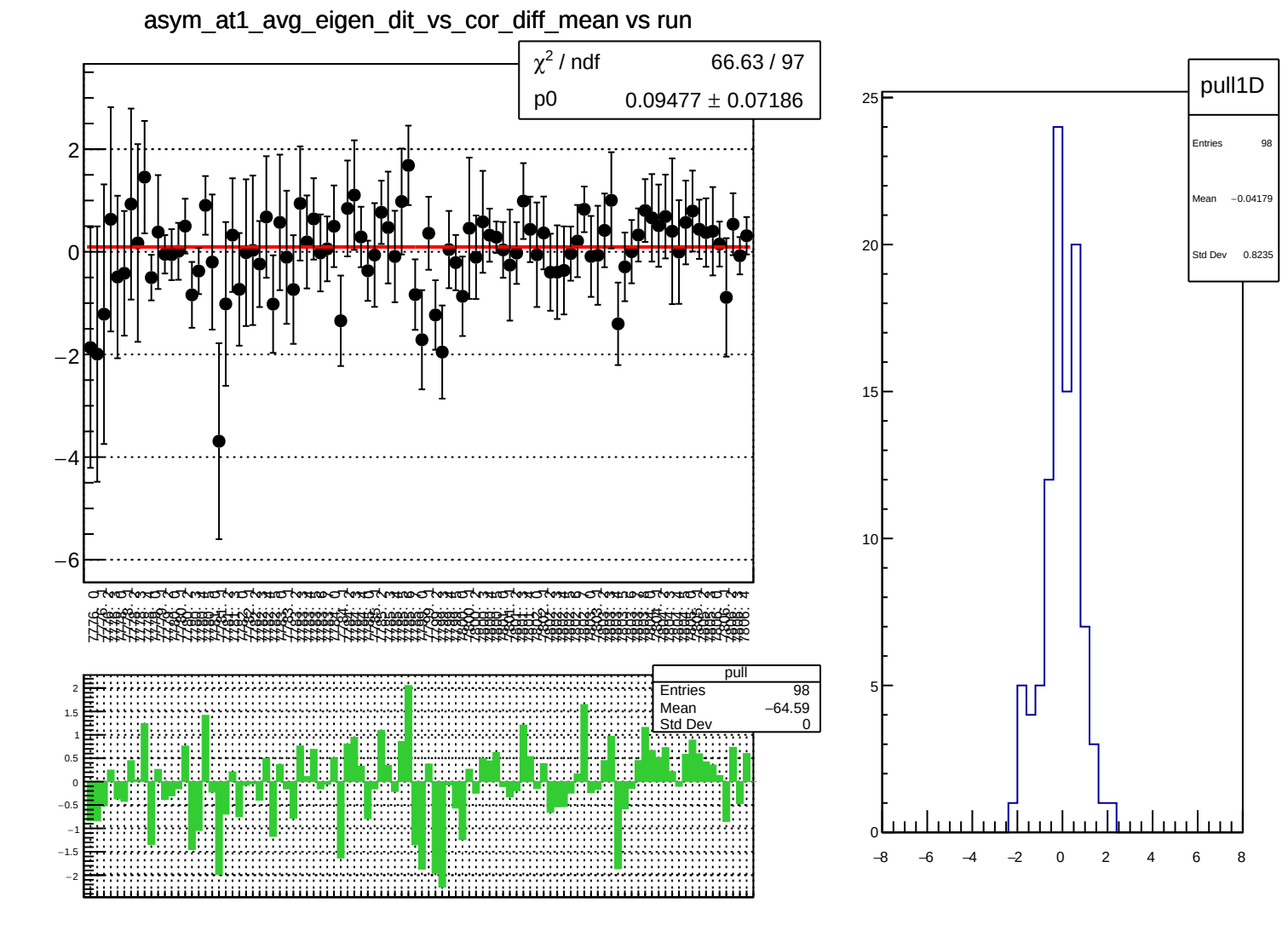

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.63 / 97
p0 0.09477 ± 0.07186
pull
Entries 98
Mean −64.57
Std Dev 0
pull1D
Entries 98
Mean −0.04179
Std Dev 0.8235

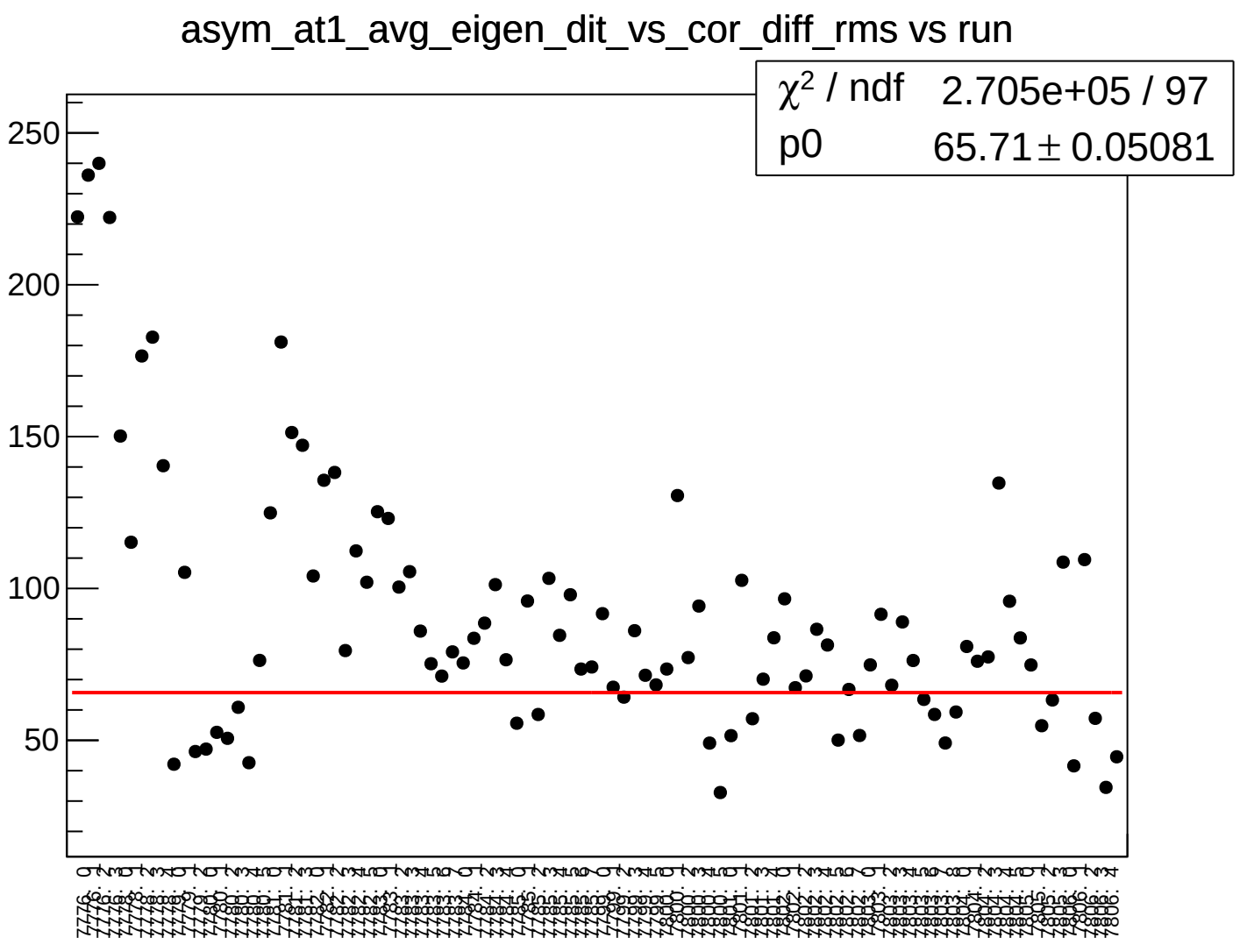

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.706e+05 / 97
p0 65.71 ± 0.05081
250
200
150
100
50

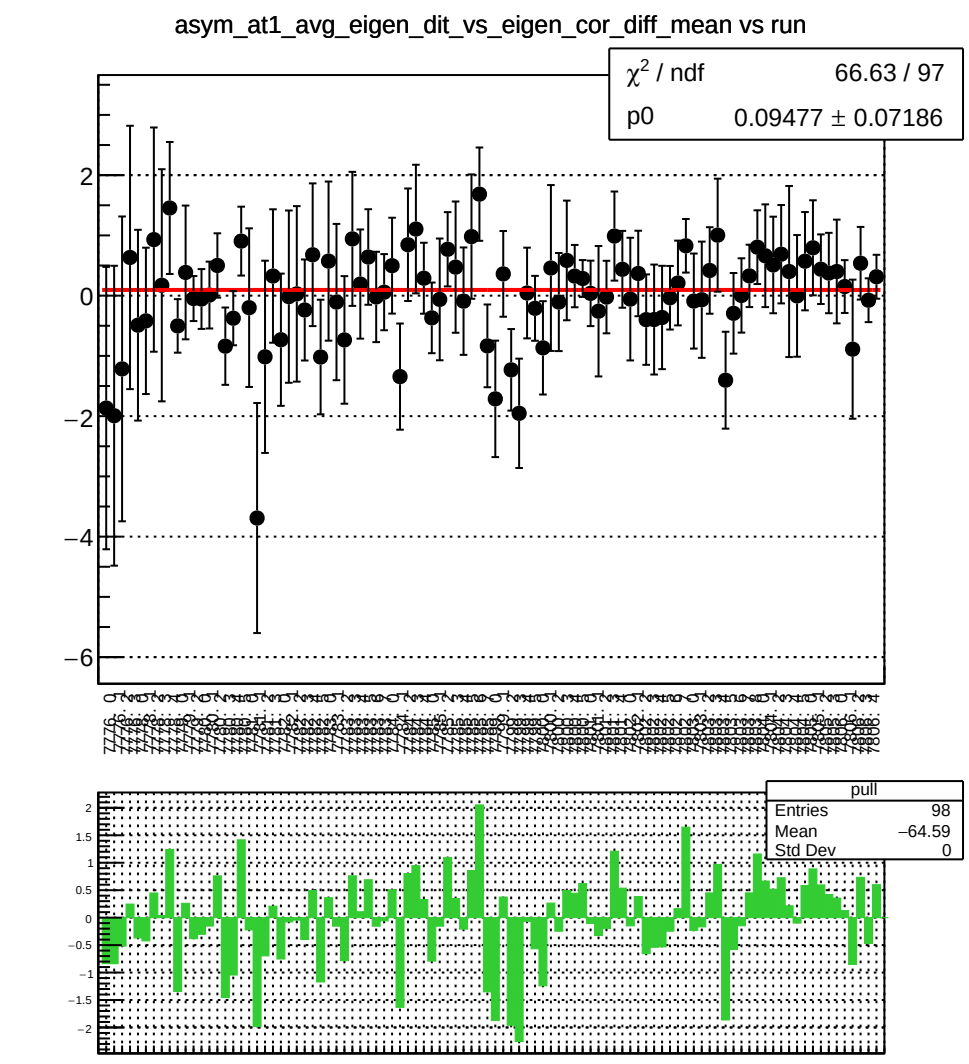

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.34 / 97
p0 3.302e−06 ± 3.417e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 98
Mean −189.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

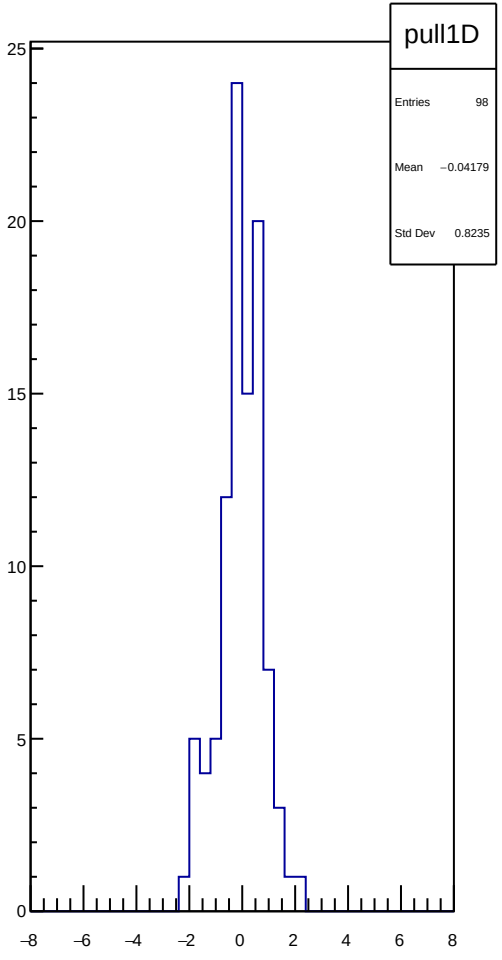

pull1D
Entries 98
Mean −0.02554
Std Dev 0.8822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

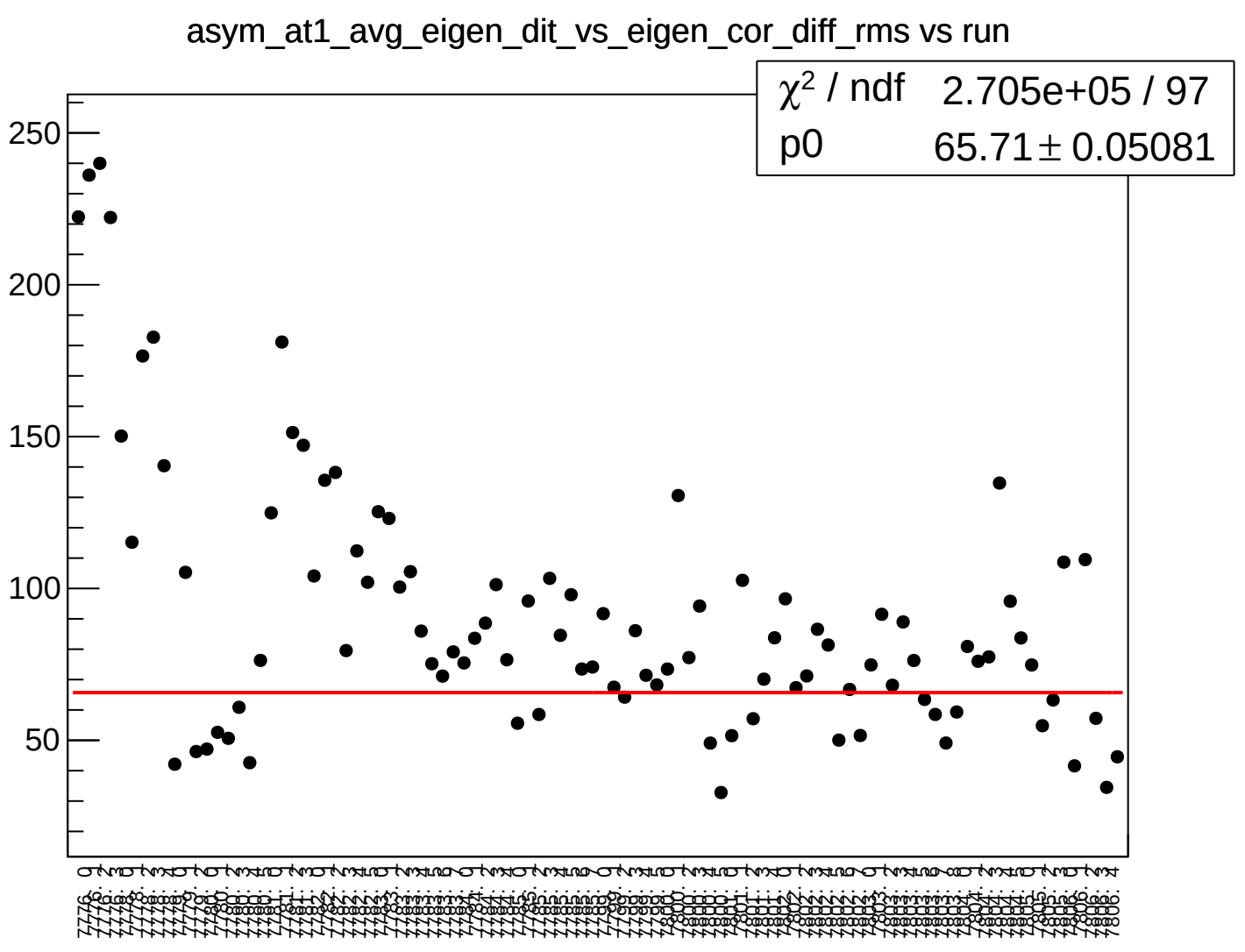

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.091e+05 / 97
p0 0.003272 ± 2.416e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

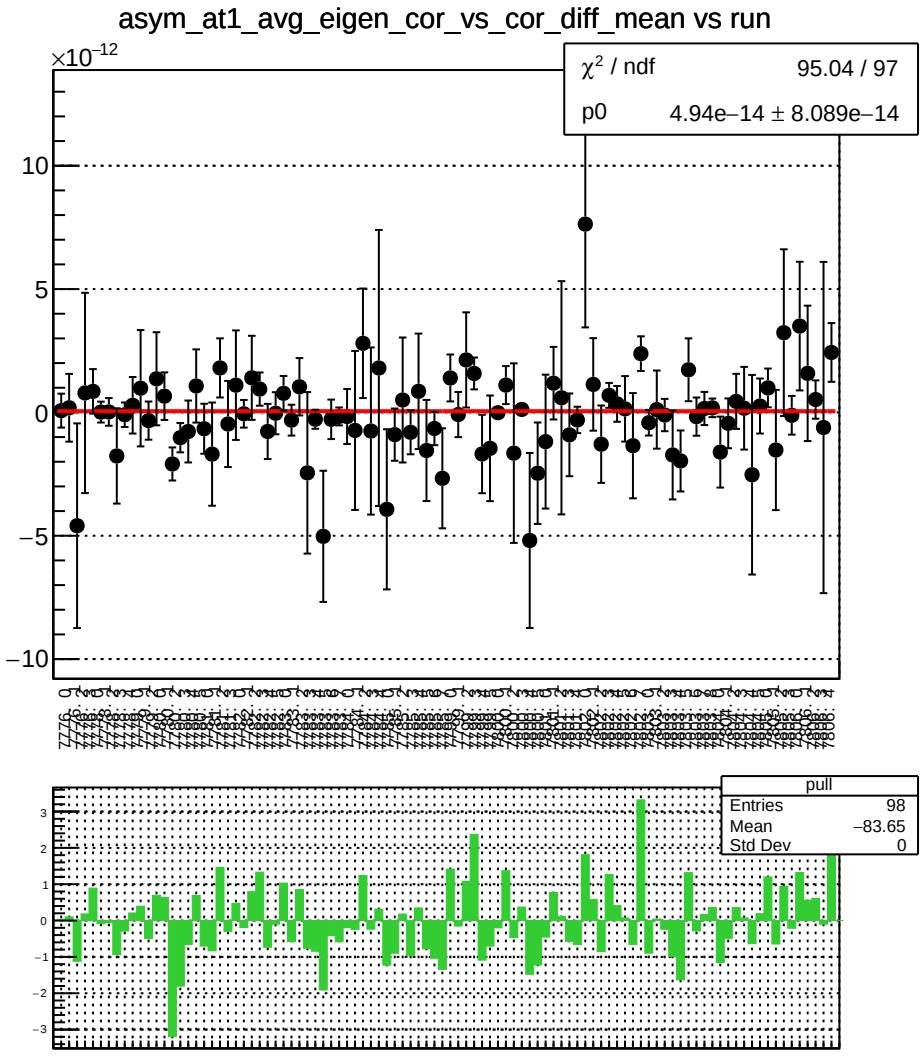

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.63 / 97
p0 0.09477 ± 0.07186
pull
Entries 98
Mean −64.59
Std Dev 0
pull1D
Entries 98
Mean −0.04179
Std Dev 0.8235

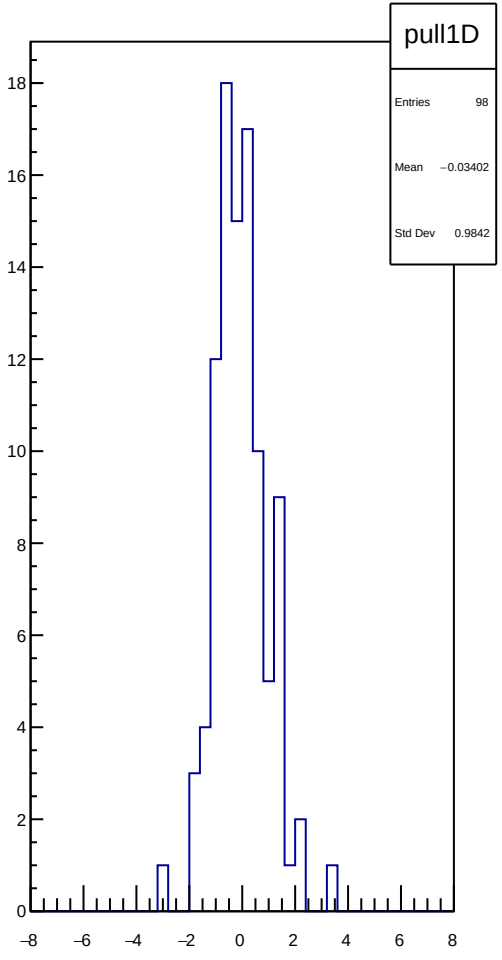

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.705e+05 / 97
p0 65.71 ± 0.05081
250
200
150
100
50

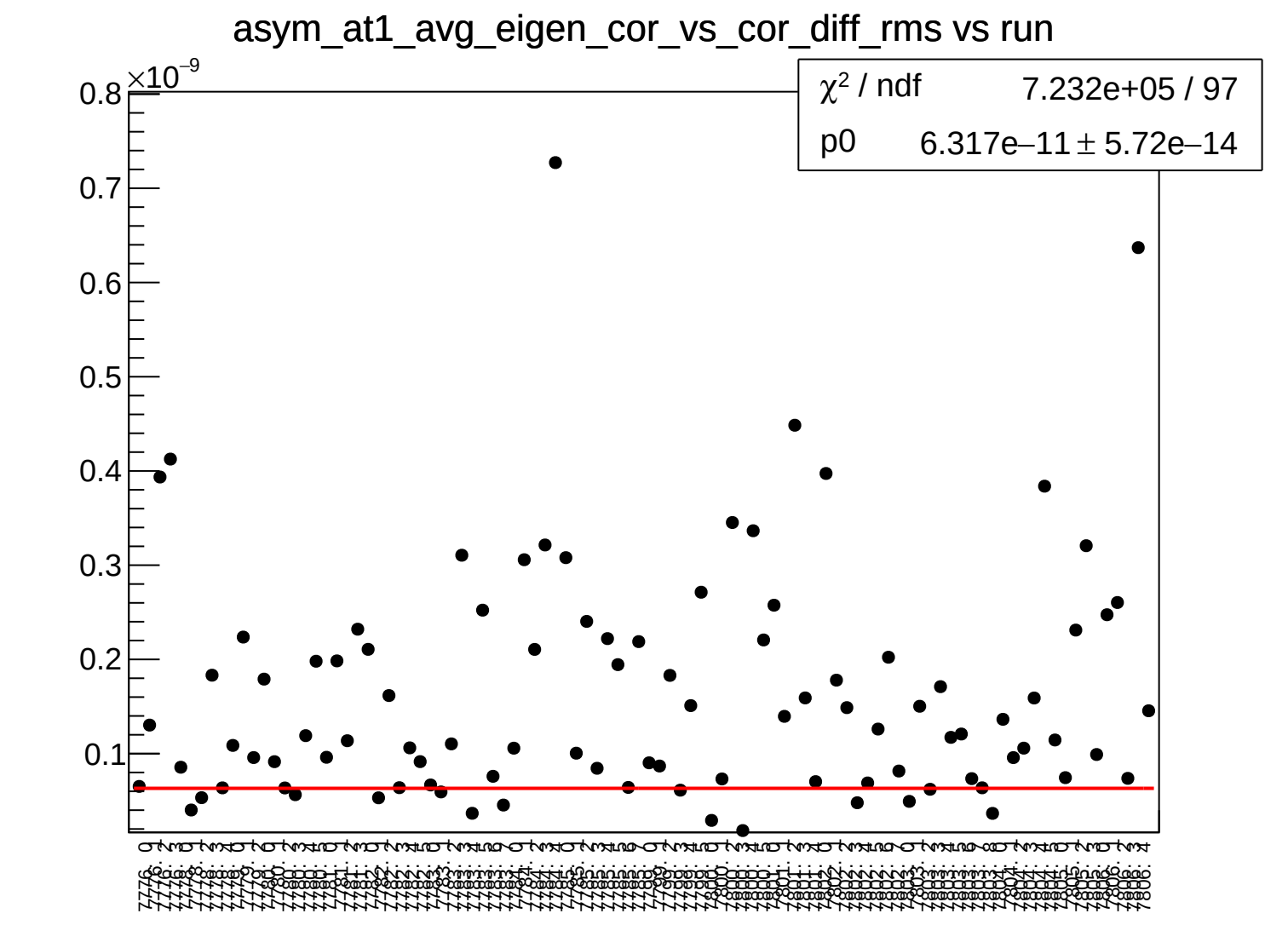

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.63 / 97
p0 0.09477 ± 0.07186
pull
Entries 98
Mean −64.59
Std Dev 0

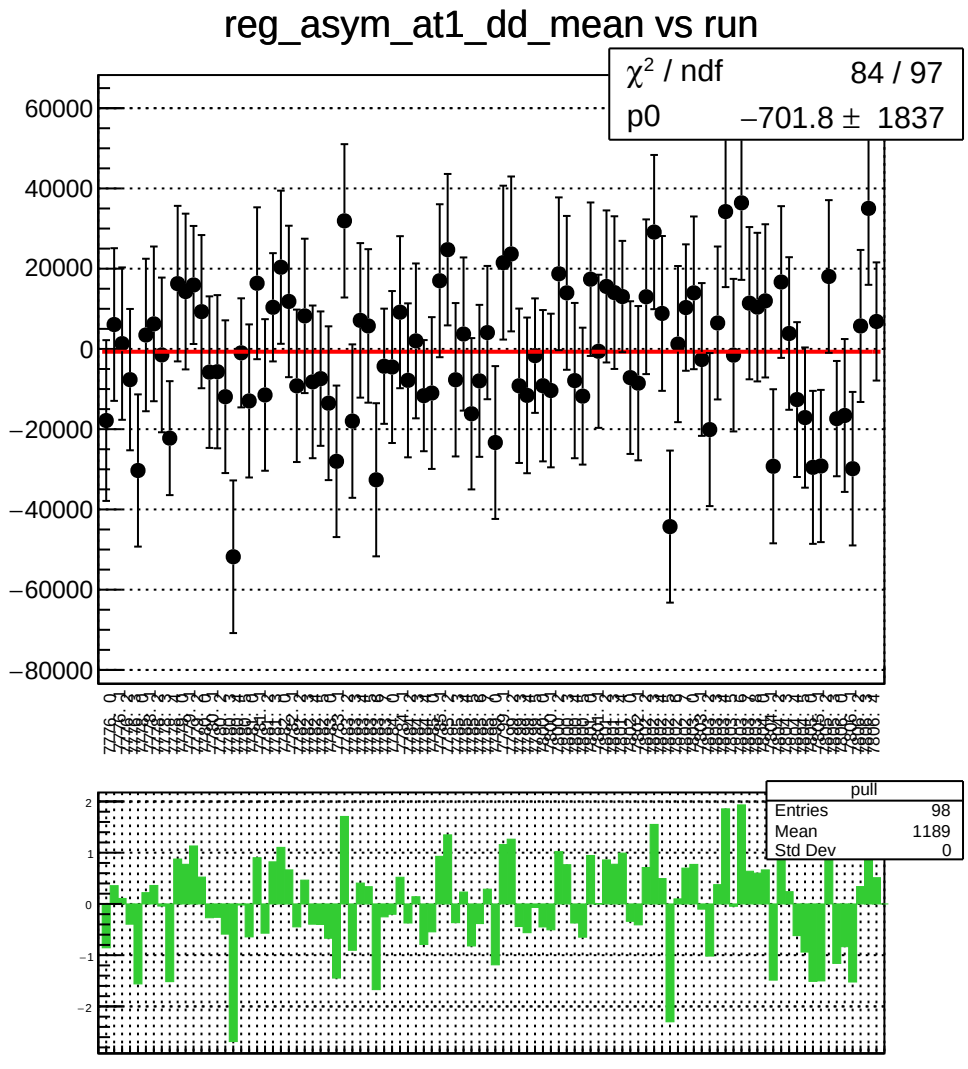

pull1D
Entries 98
Mean −0.04179
Std Dev 0.8235

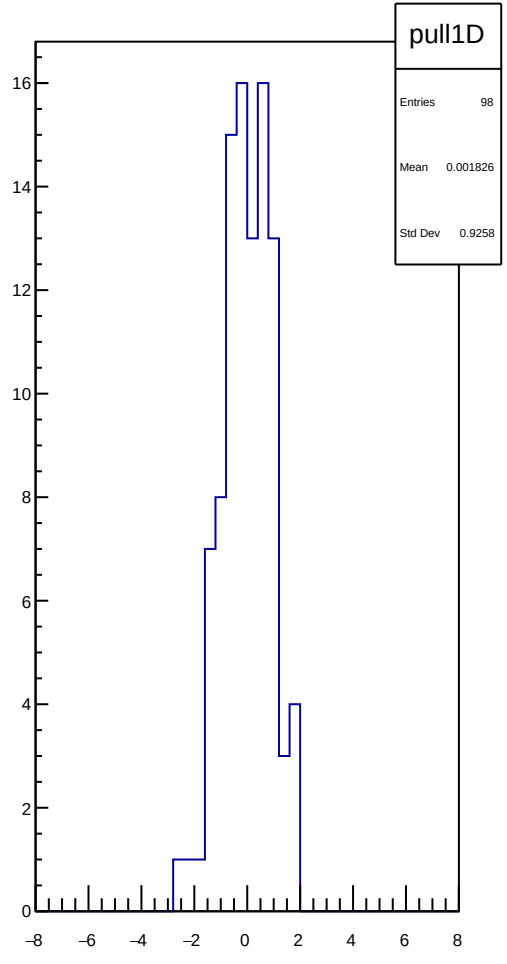

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.705e+05 / 97
p0 65.71 ± 0.05081
250
200
150
100
50

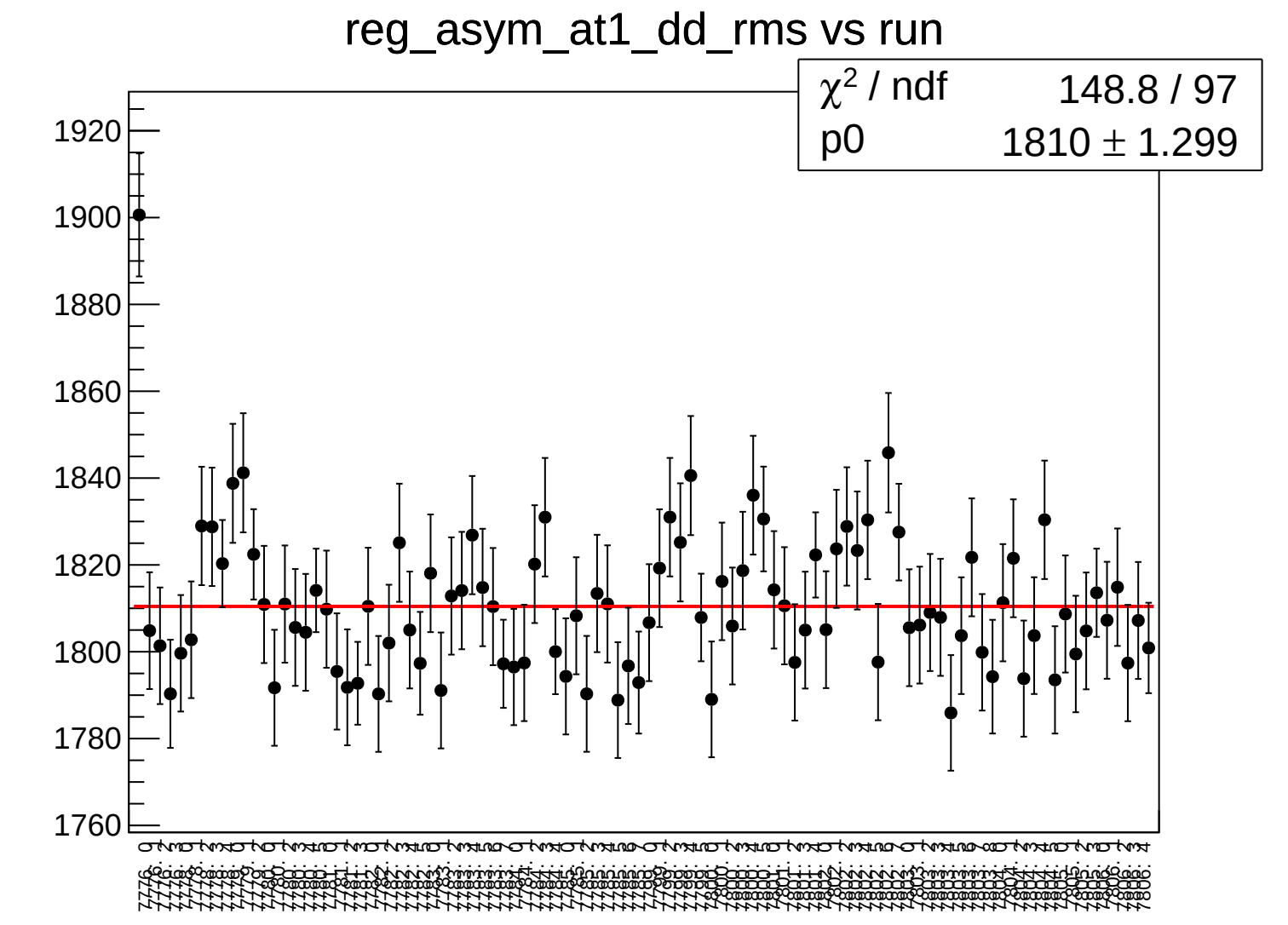

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.04 / 97
p0 4.94e−14 ± 8.089e−14
10
5
0
−5
−10
pull
Entries 98
Mean −83.65
Std Dev 0
3
2
1
0
−1
−2
−3

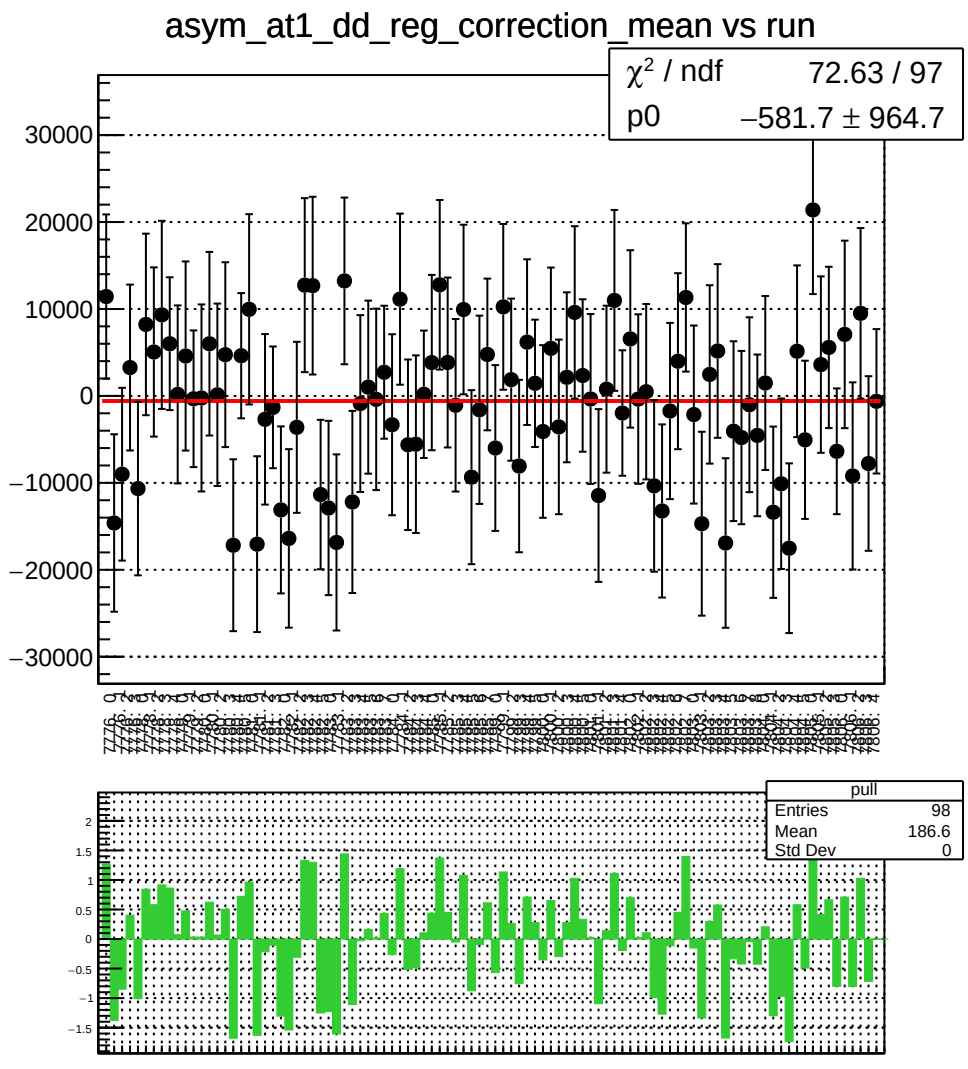

pull1D
Entries 98
Mean −0.03402
Std Dev 0.9842
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

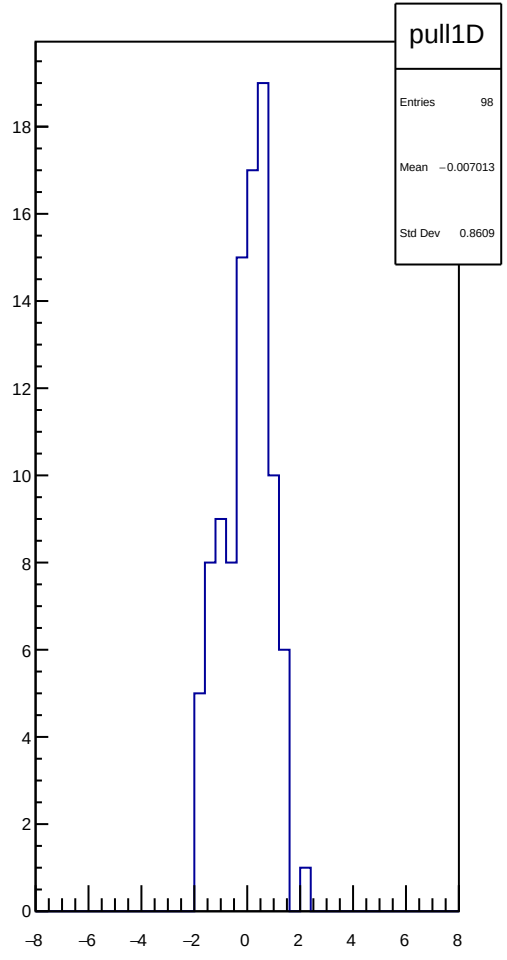

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 7.232e+05 / 97
p0 6.317e−11 ± 5.72e−14
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

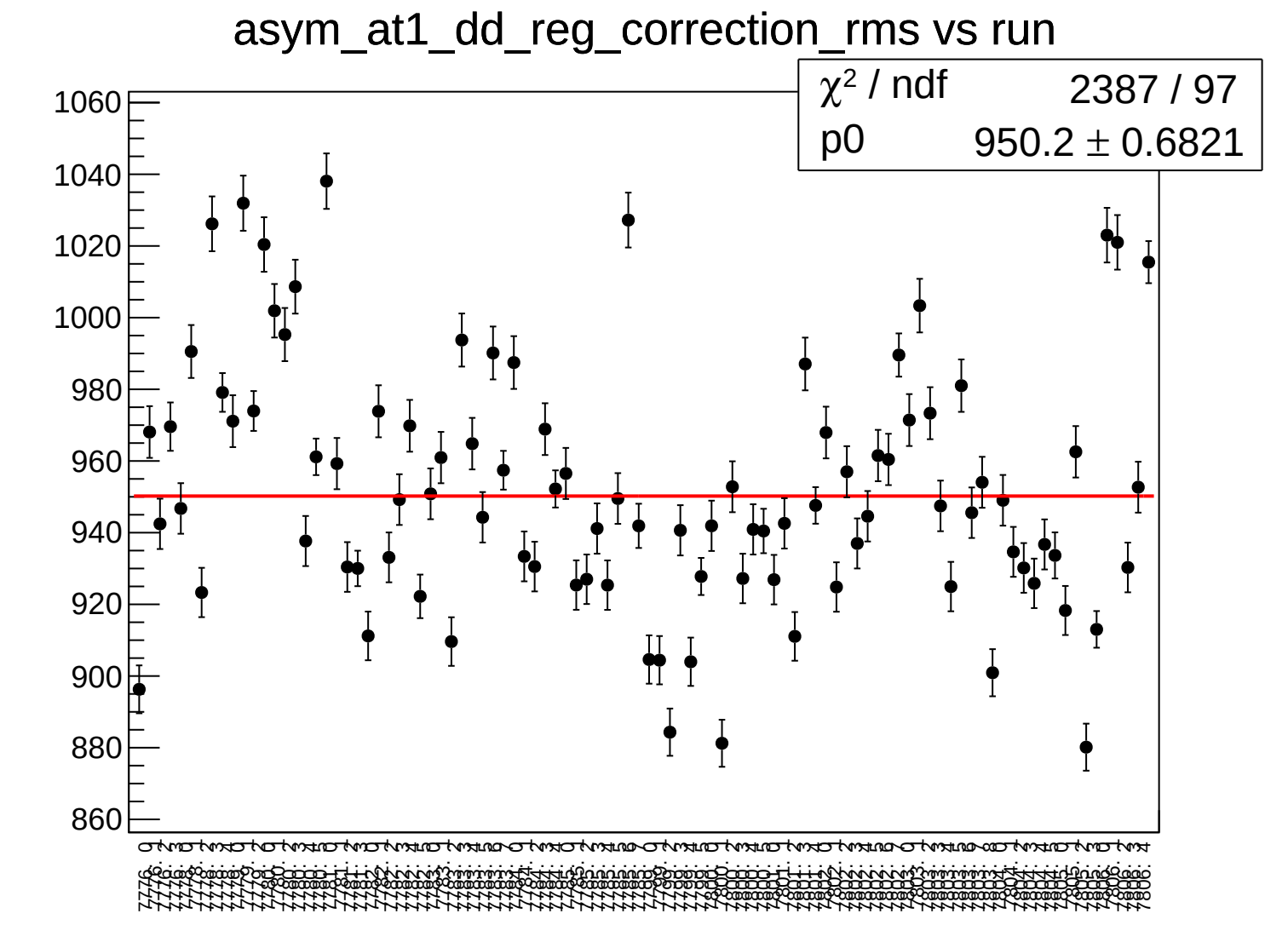

reg_asym_at1_dd_mean vs run
χ² / ndf 84 / 97
p0 −701.8 ± 1837
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 1189
Std Dev 0
2
1
0
−1
−2

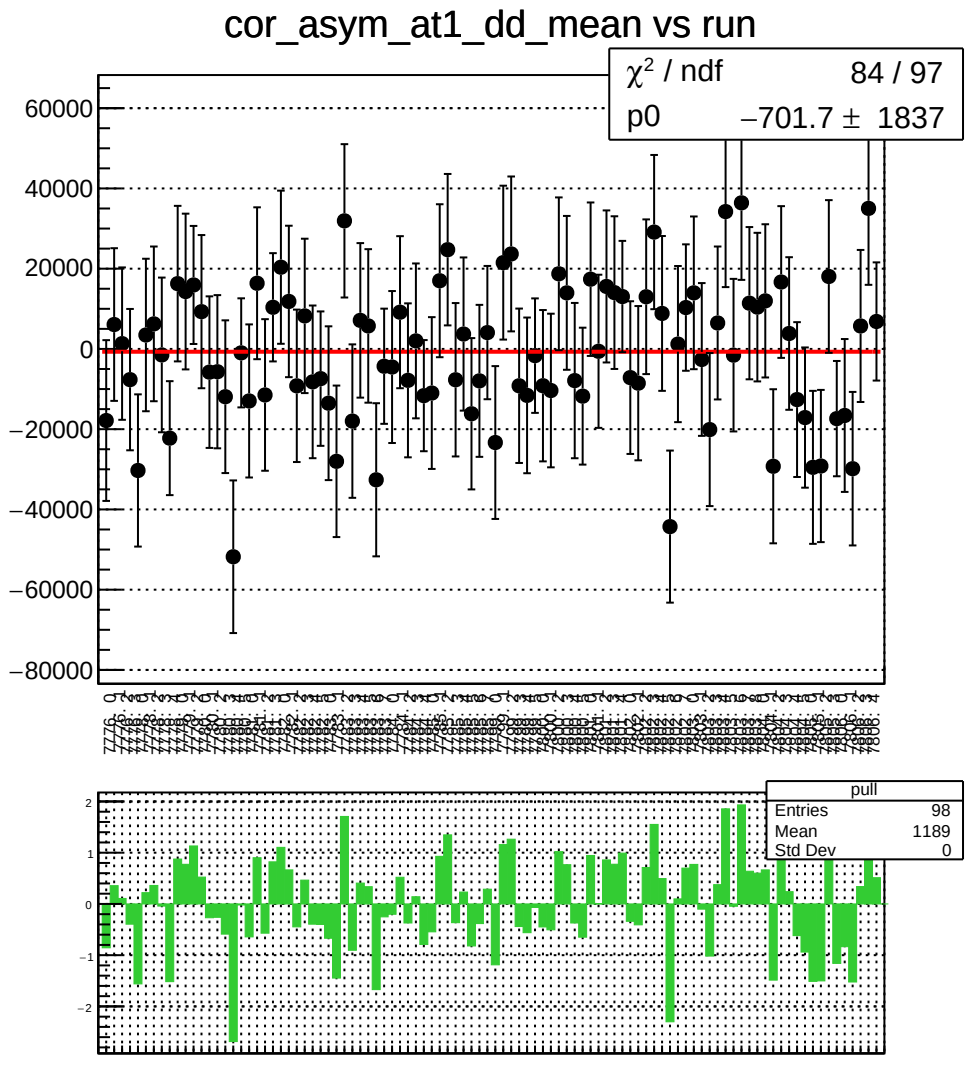

pull1D
Entries 98
Mean 0.001826
Std Dev 0.9258
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

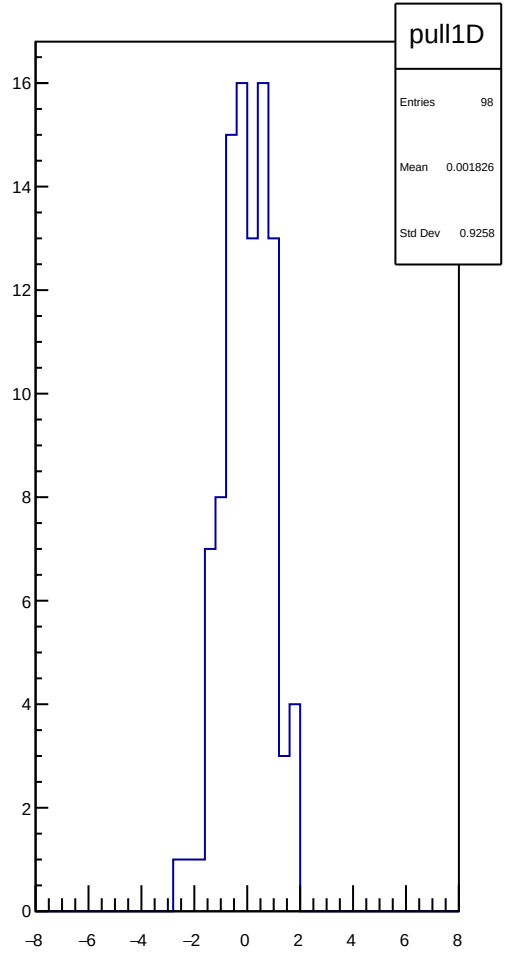

reg_asym_at1_dd_rms vs run
χ^2 / ndf 148.8 / 97
p0 1810 ± 1.299
1920
1900
1880
1860
1840
1820
1800
1780
1760

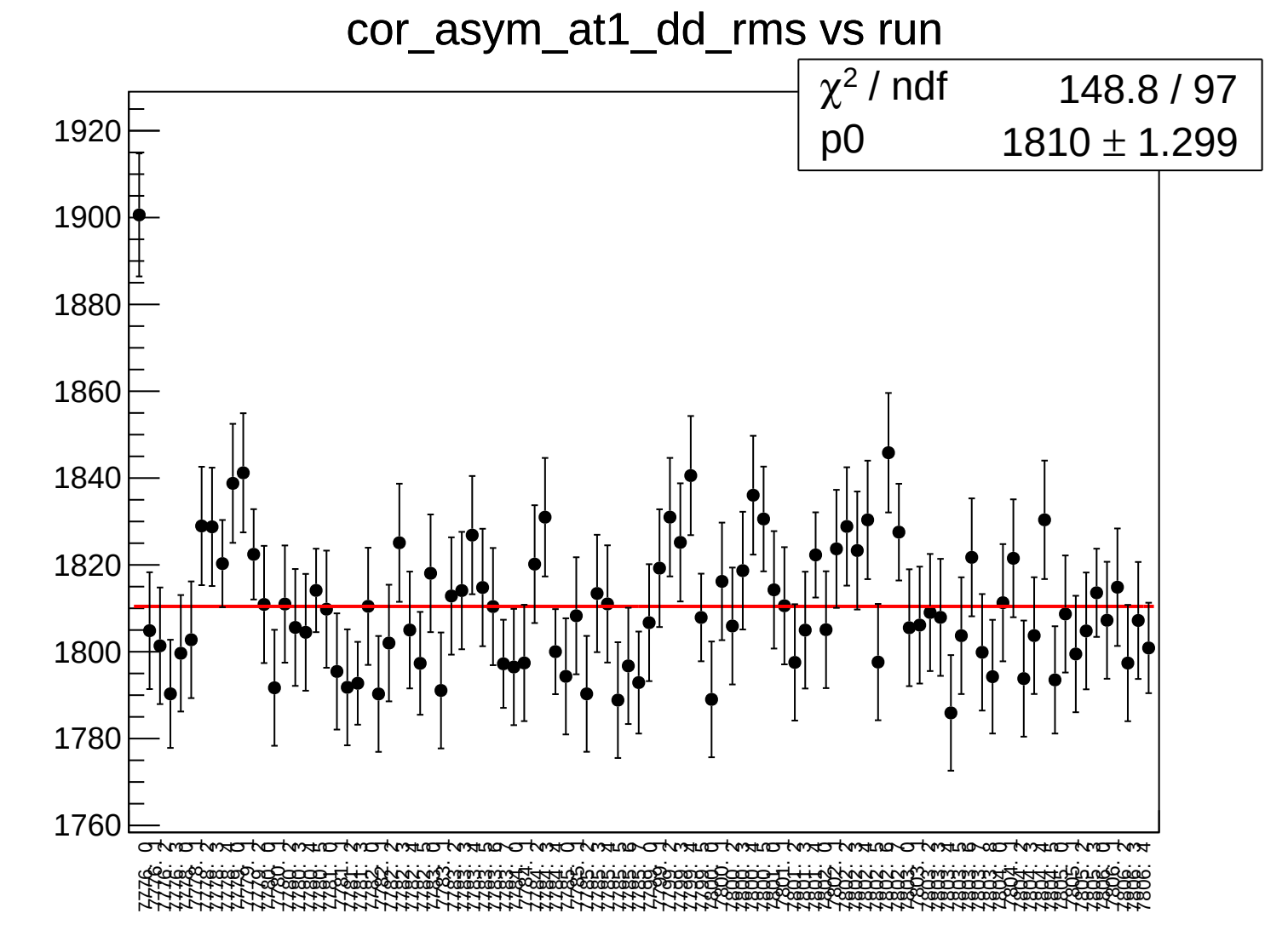

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 72.63 / 97
p0 −581.7 ± 964.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 186.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

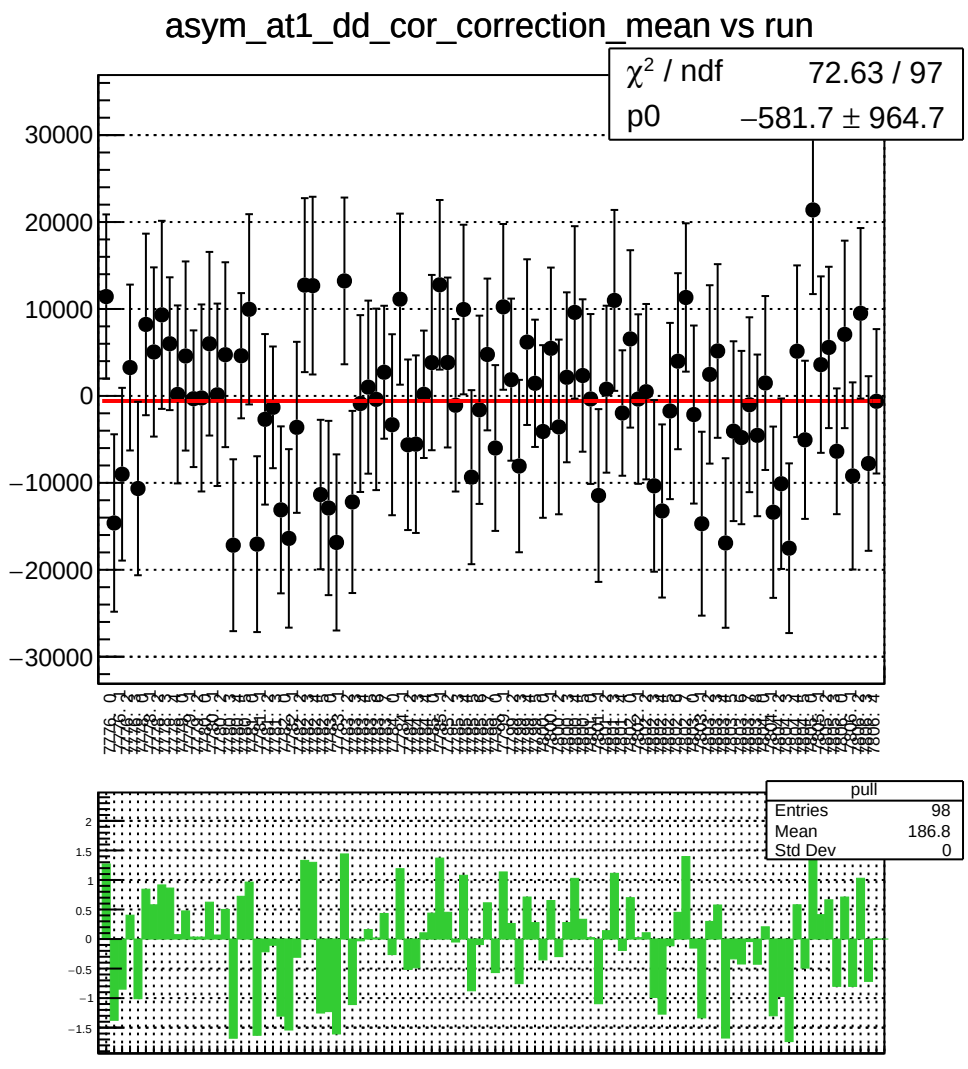

pull1D
Entries 98
Mean −0.007013
Std Dev 0.8609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

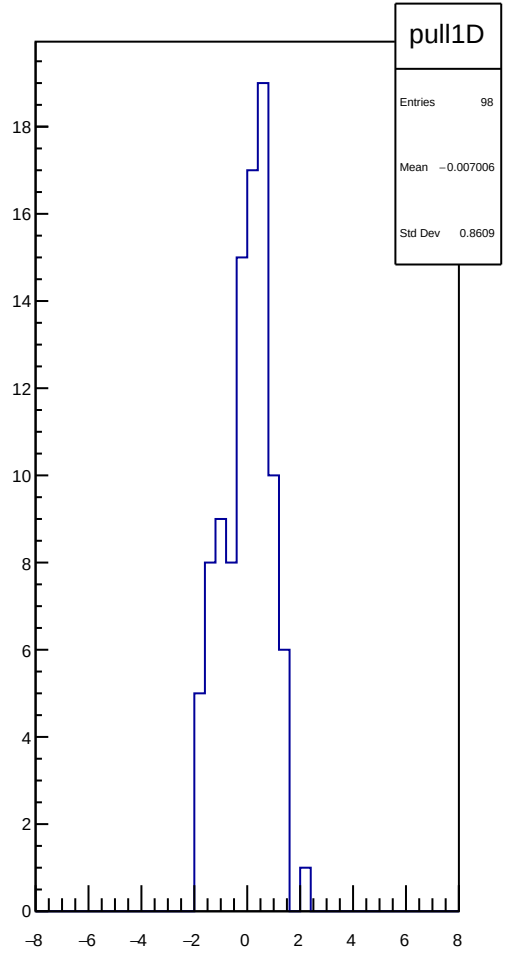

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 2387 / 97
p0 950.2 ± 0.6821
1060
1040
1020
1000
980
960
940
920
900
880
860

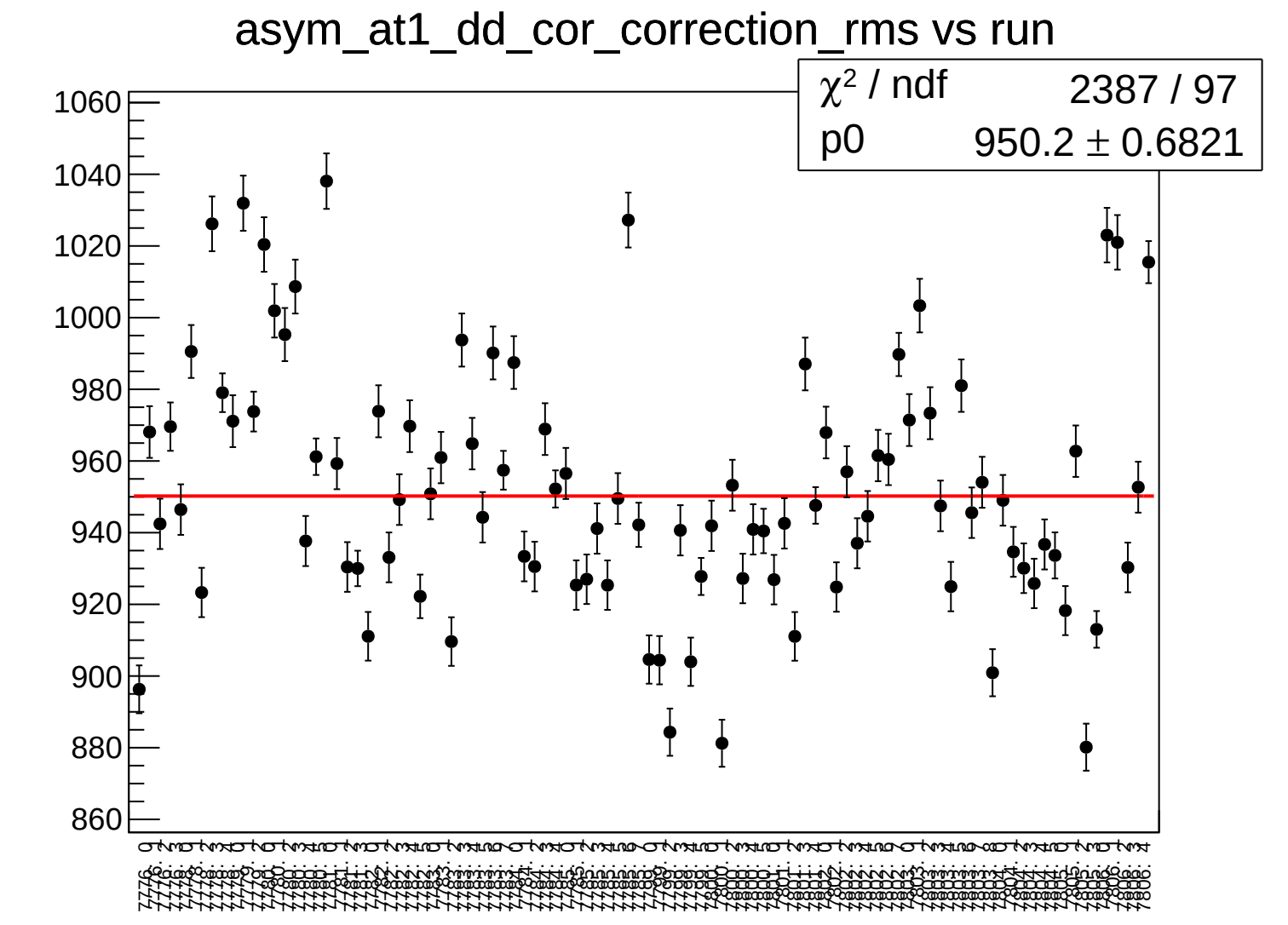

cor_asym_at1_dd_mean vs run
χ² / ndf 84 / 97
p0 −701.7 ± 1837
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 1189
Std Dev 0
2
1
0
−1
−2

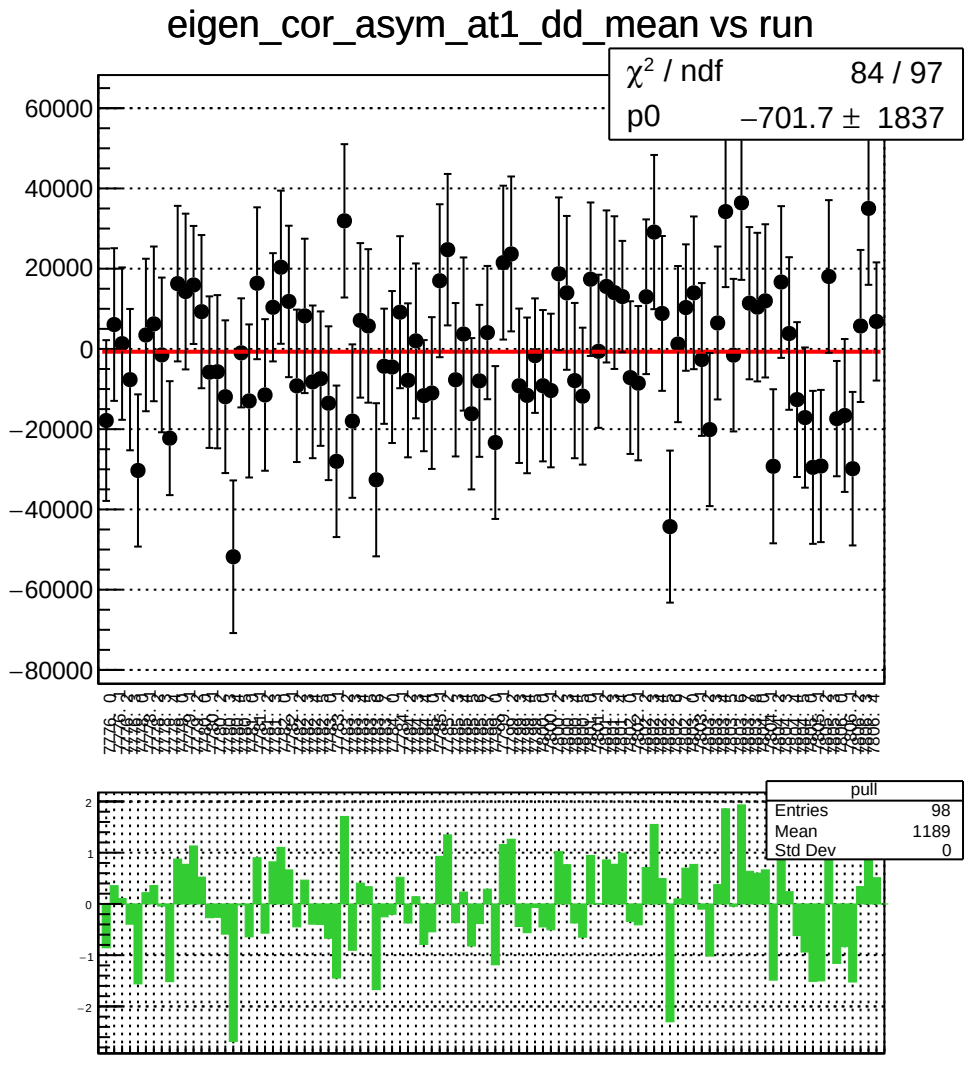

pull1D
Entries 98
Mean 0.001826
Std Dev 0.9258
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

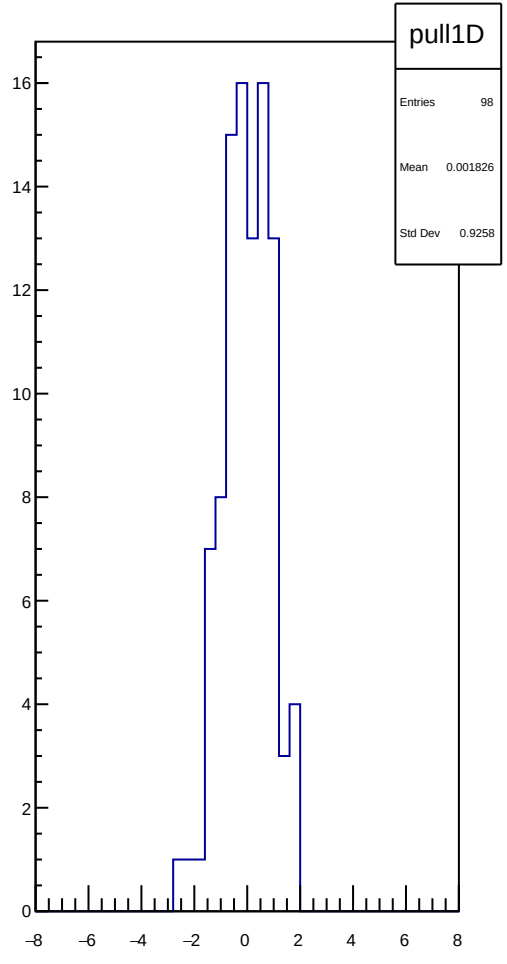

cor_asym_at1_dd_rms vs run
χ^2 / ndf 148.8 / 97
p0 1810 ± 1.299
1920
1900
1880
1860
1840
1820
1800
1780
1760

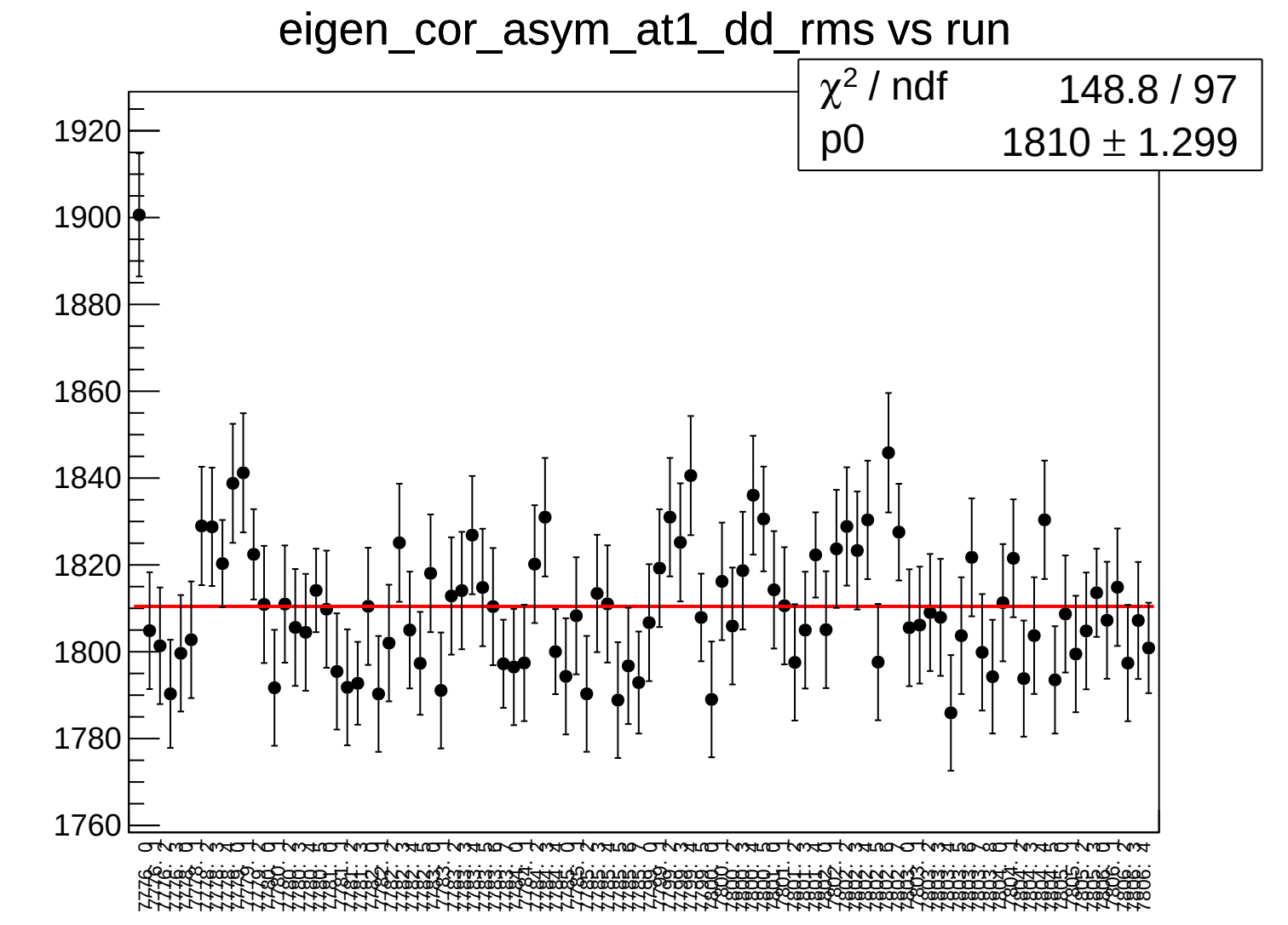

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 72.63 / 97
p0 −581.7 ± 964.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 186.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

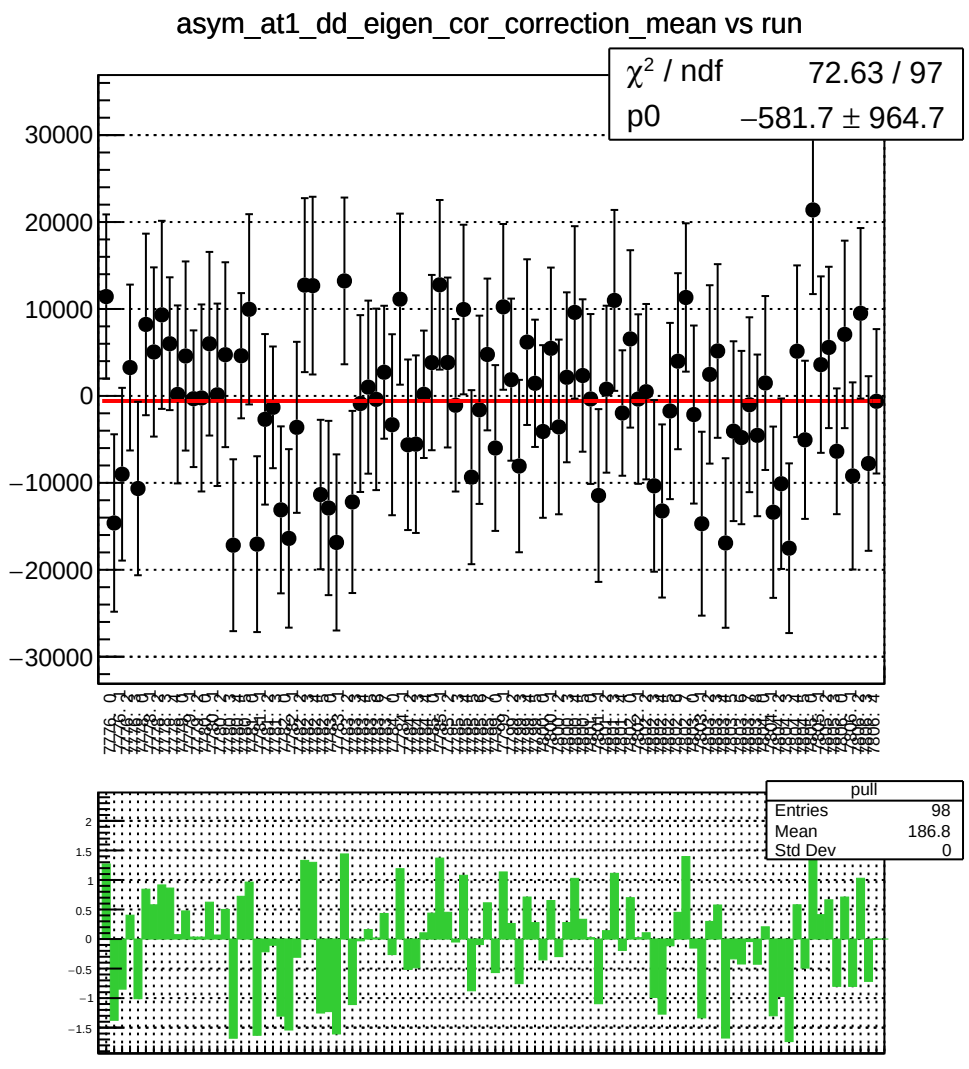

pull1D
Entries 98
Mean −0.007006
Std Dev 0.8609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

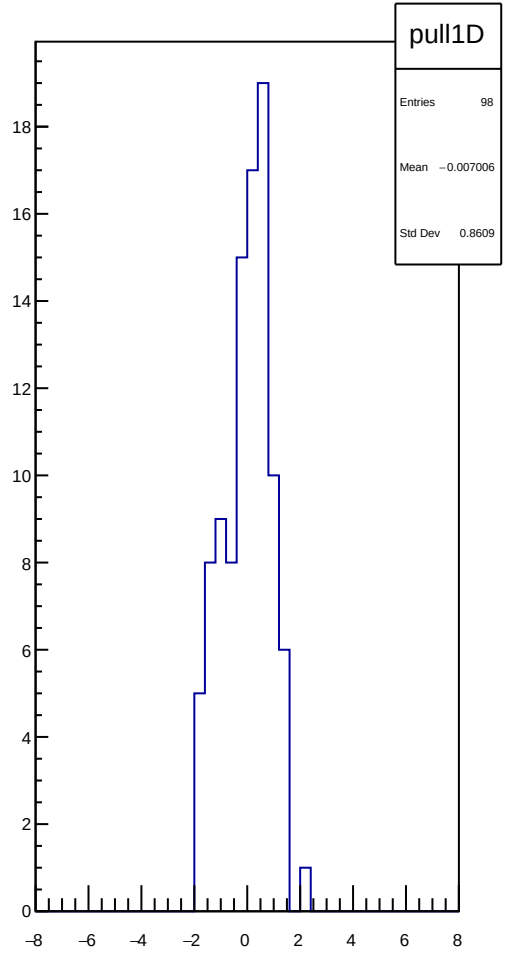

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 2387 / 97
p0 950.2 ± 0.6821
1060
1040
1020
1000
980
960
940
920
900
880
860

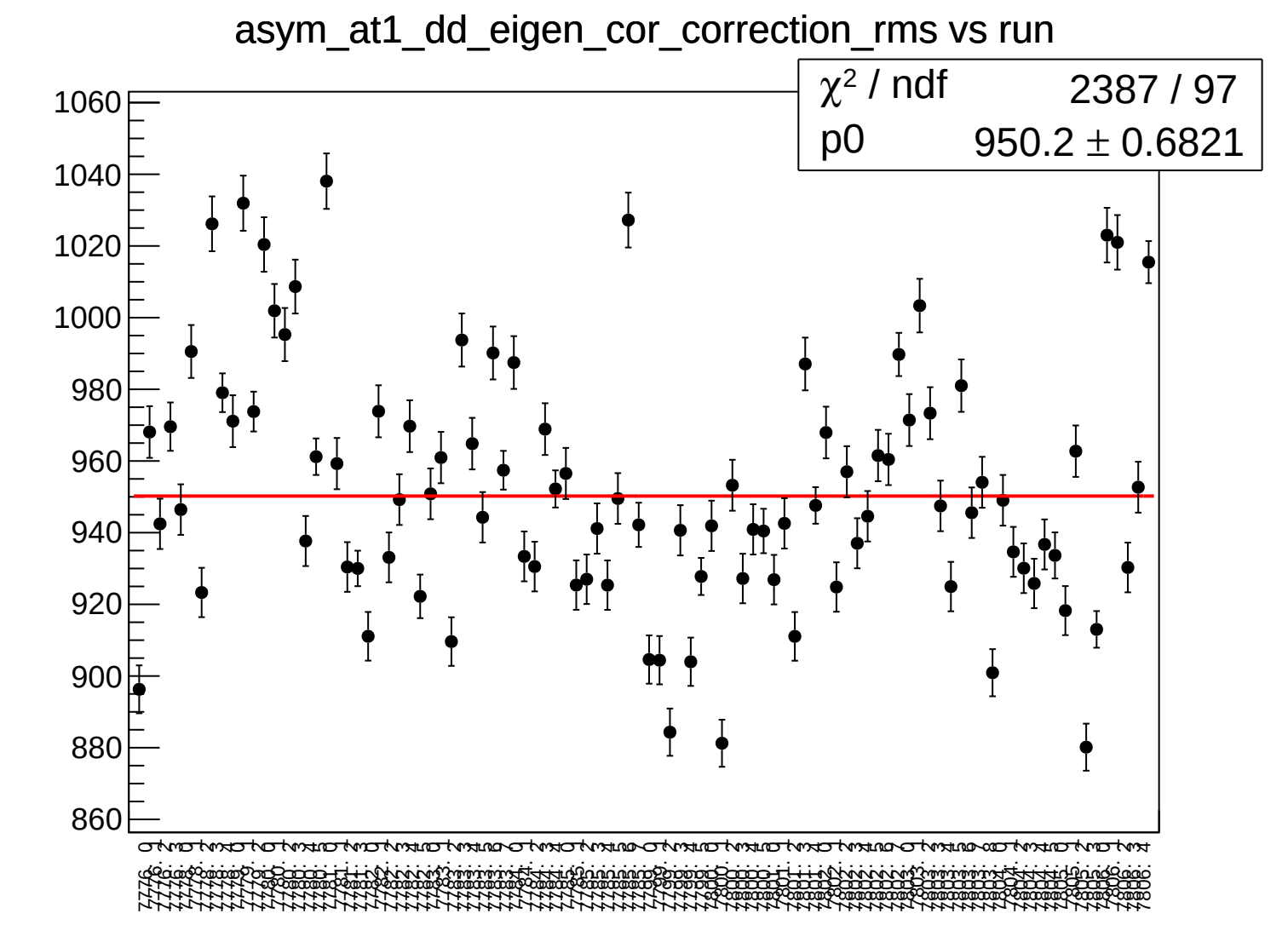

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 84 / 97
p0 −701.7 ± 1837
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 1189
Std Dev 0
2
1
0
−1
−2

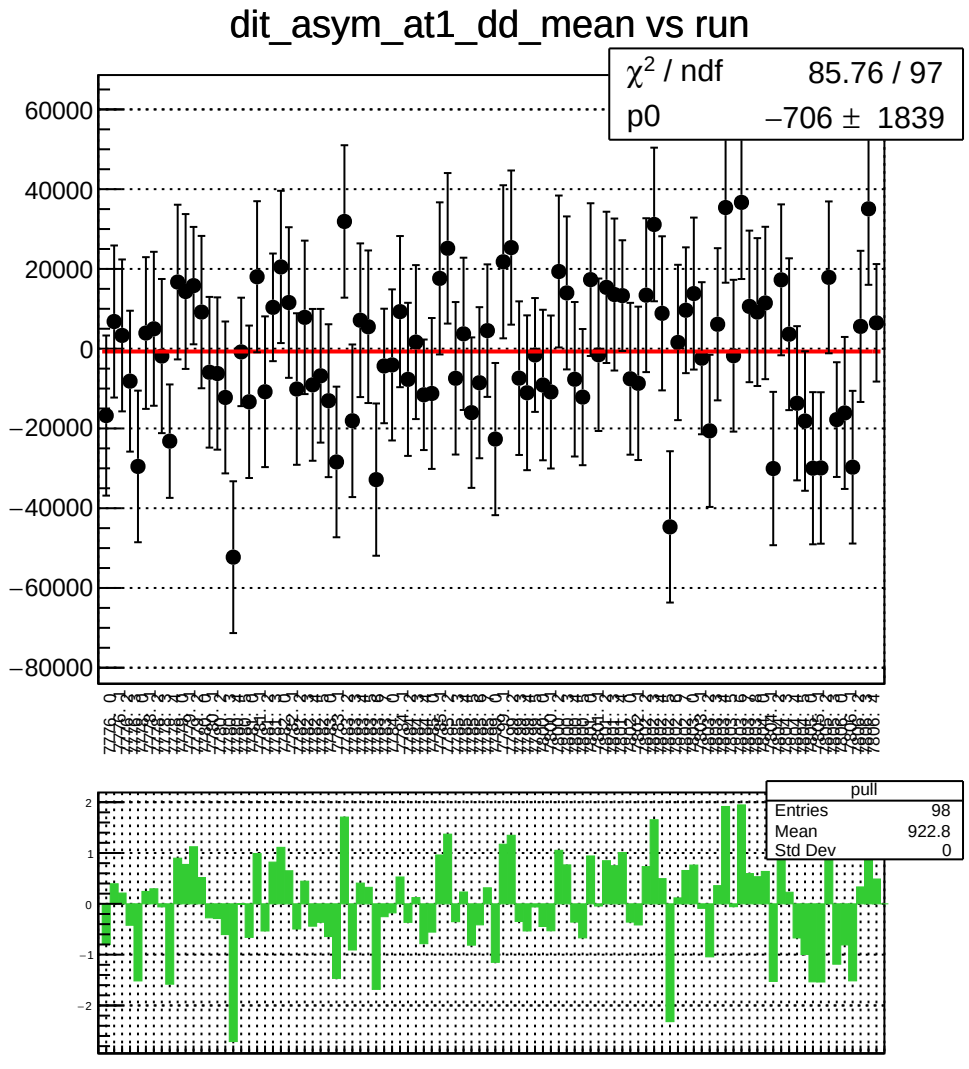

pull1D
Entries 98
Mean 0.001826
Std Dev 0.9258
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

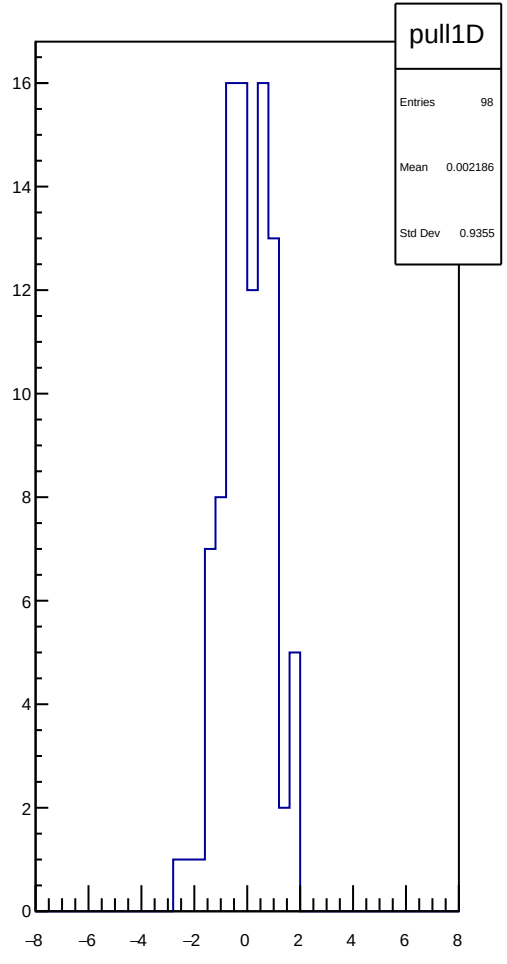

eigen_cor_asym_at1_dd_rms vs run
χ^2 / ndf 148.8 / 97
p0 1810 ± 1.299
1920
1900
1880
1860
1840
1820
1800
1780
1760

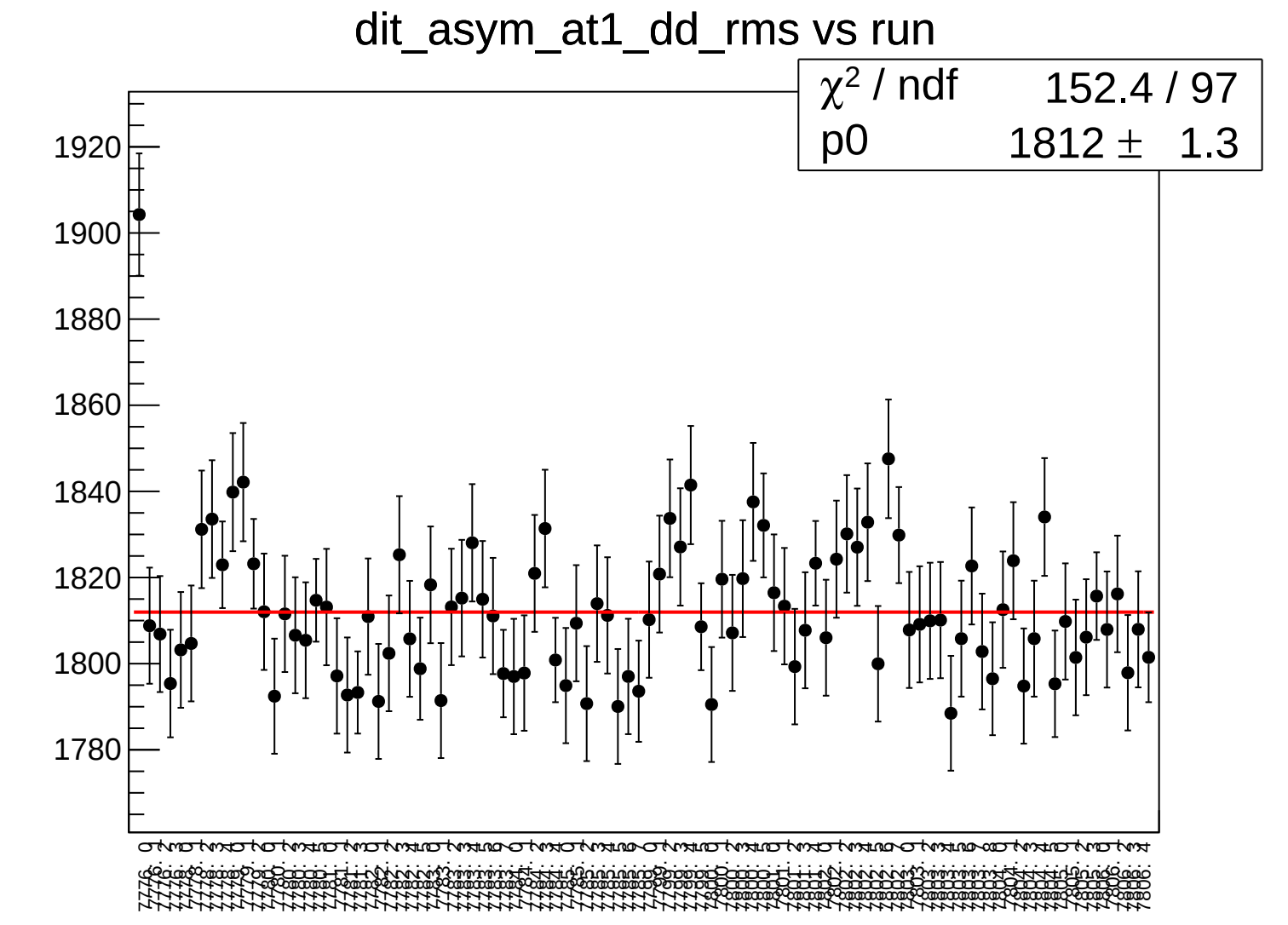

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.63 / 97
p0 −581.7 ± 964.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 186.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

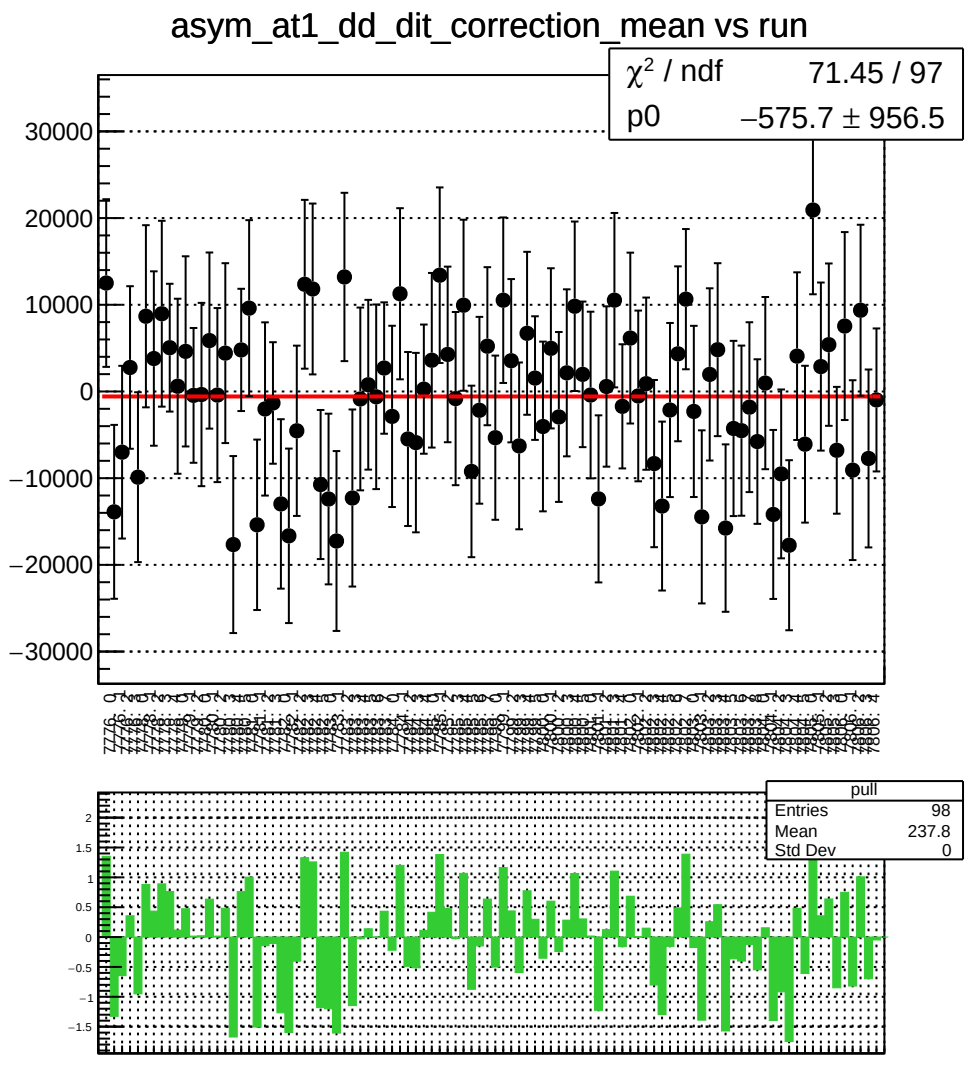

pull1D
Entries 98
Mean −0.007006
Std Dev 0.8609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

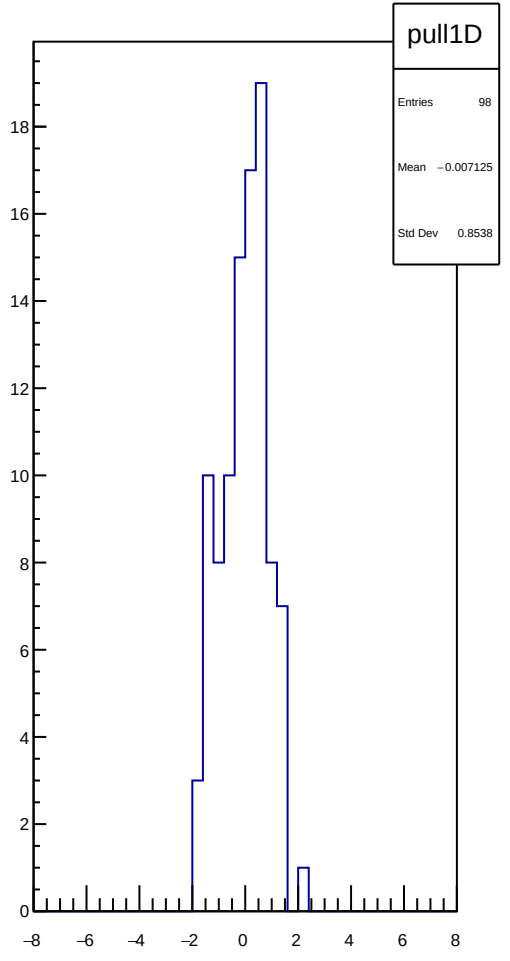

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2387 / 97
p0 950.2 ± 0.6821
1060
1040
1020
1000
980
960
940
920
900
880
860

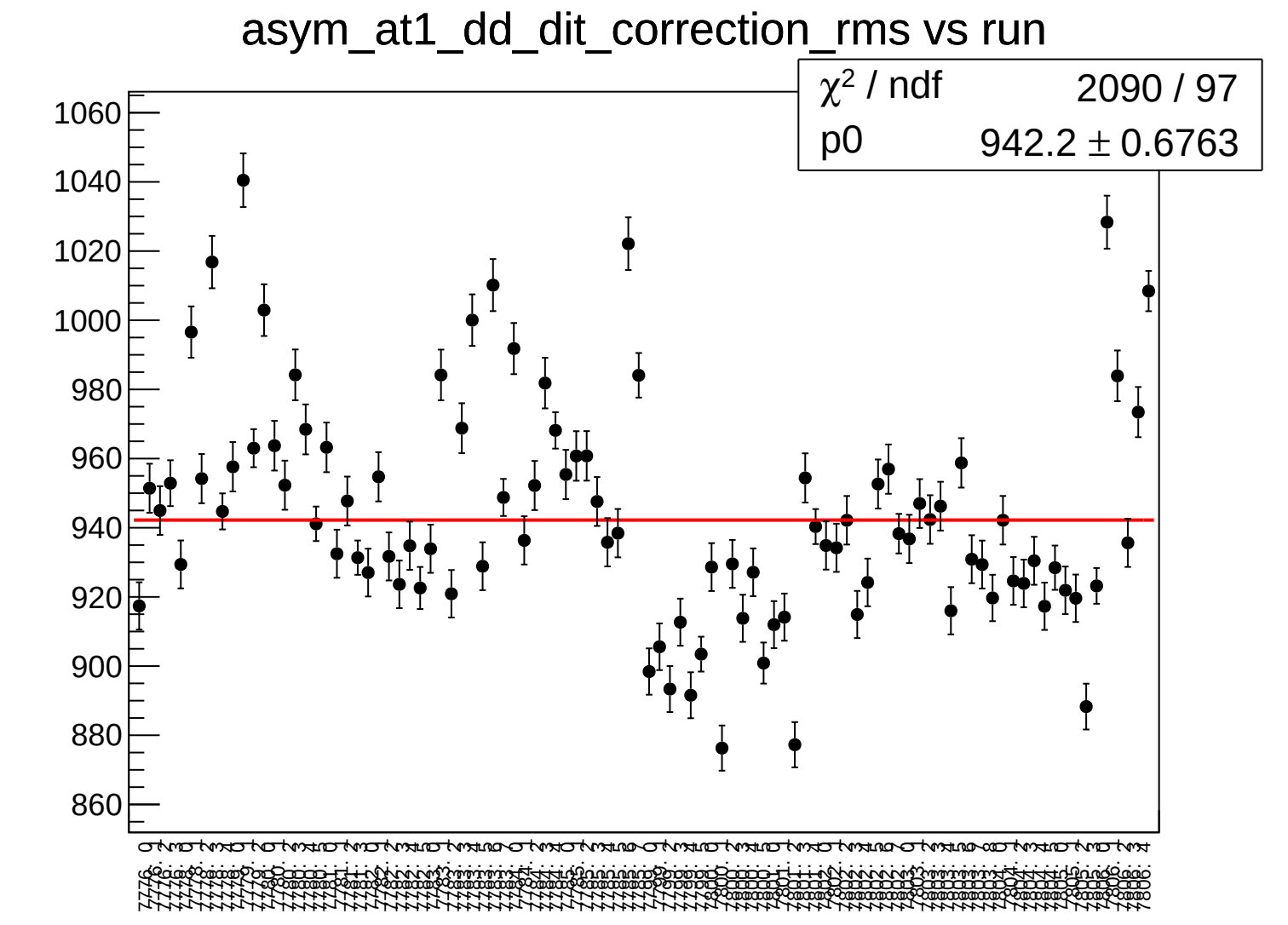

dit_asym_at1_dd_mean vs run
χ² / ndf 85.76 / 97
p0 −706 ± 1839
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 922.8
Std Dev 0
2
1
0
−1
−2

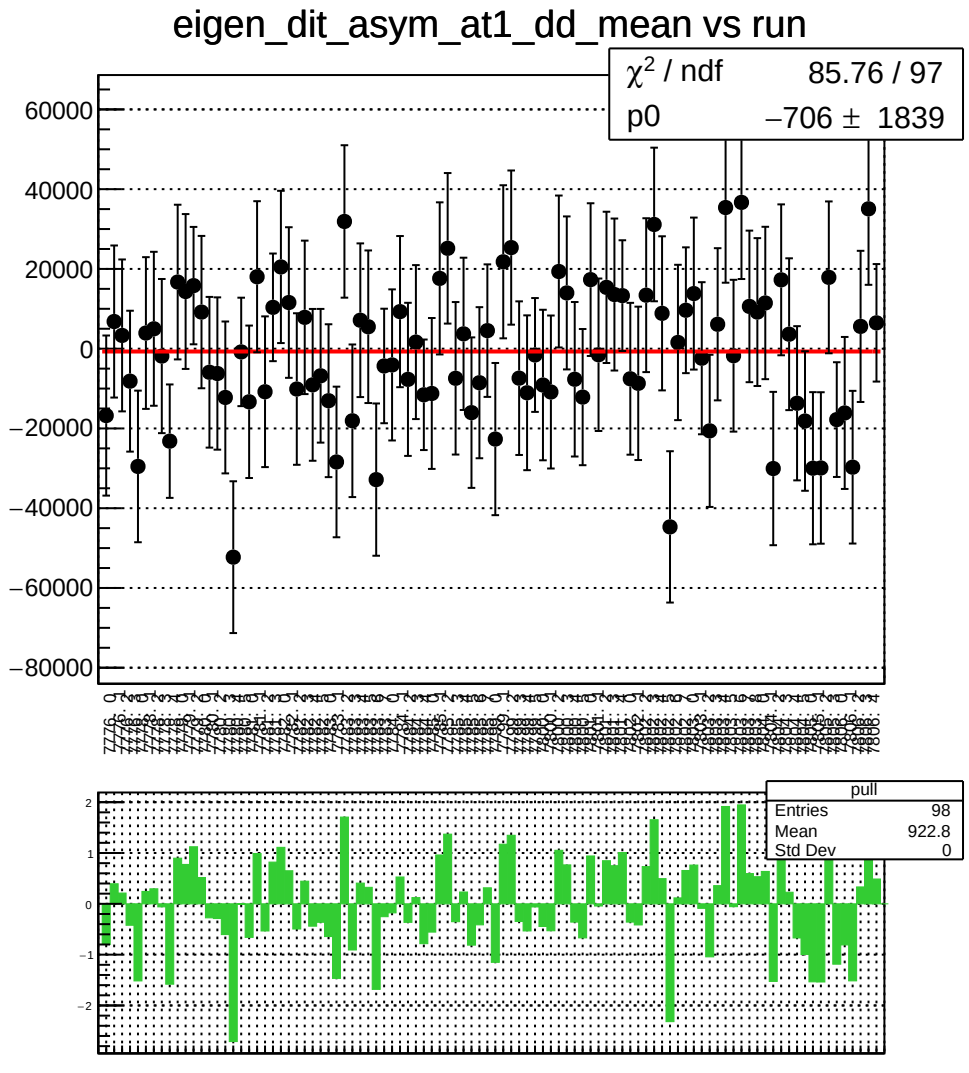

pull1D
Entries 98
Mean 0.002186
Std Dev 0.9355
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

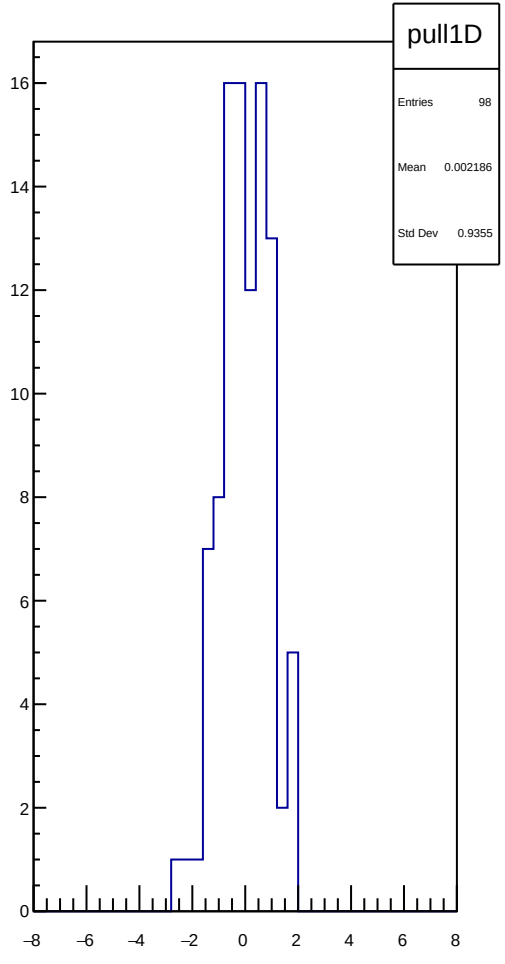

dit_asym_at1_dd_rms vs run
χ² / ndf 152.4 / 97
p0 1812 ± 1.3
1920
1900
1880
1860
1840
1820
1800
1780

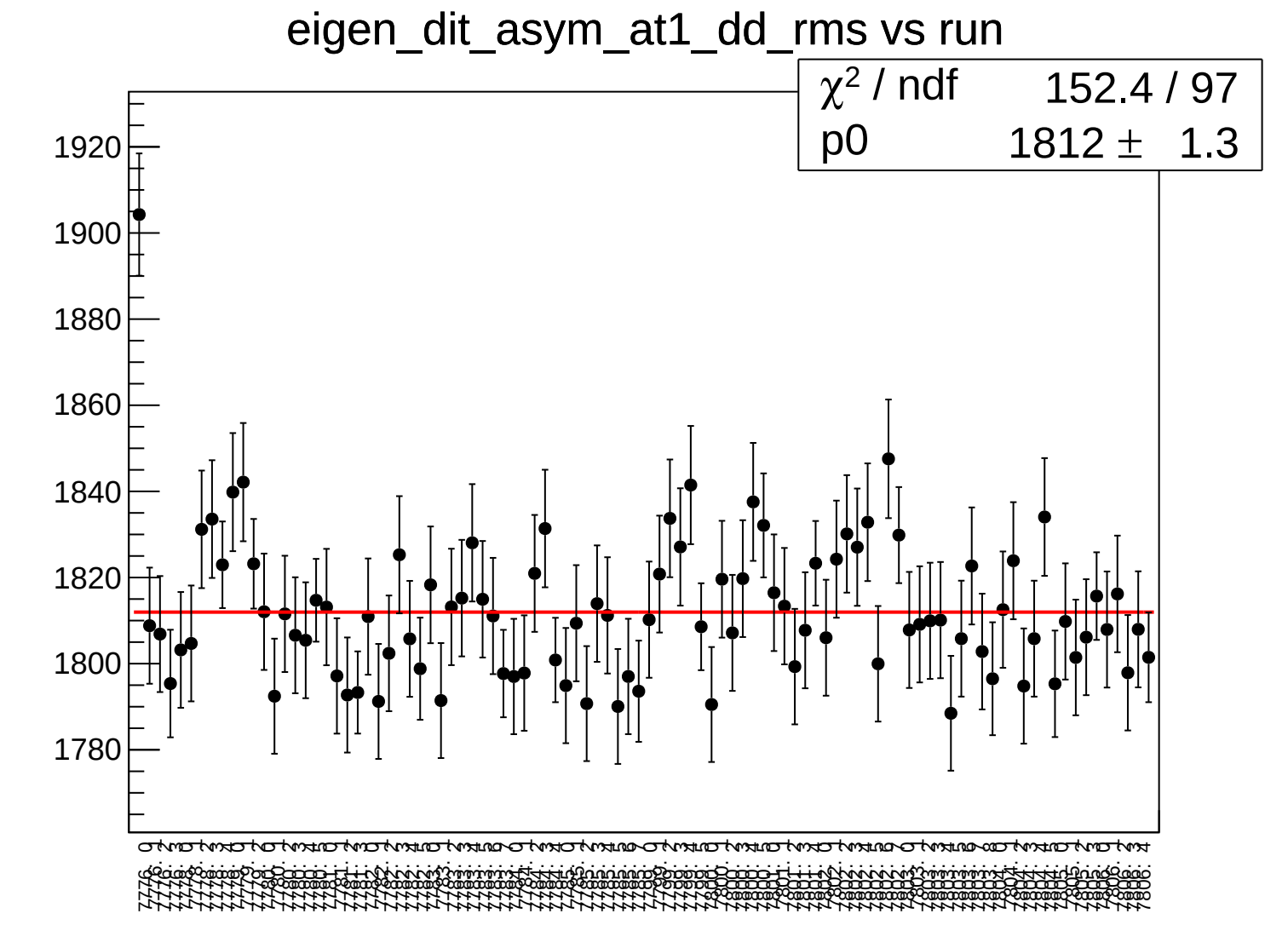

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 71.45 / 97
p0 −575.7 ± 956.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 237.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

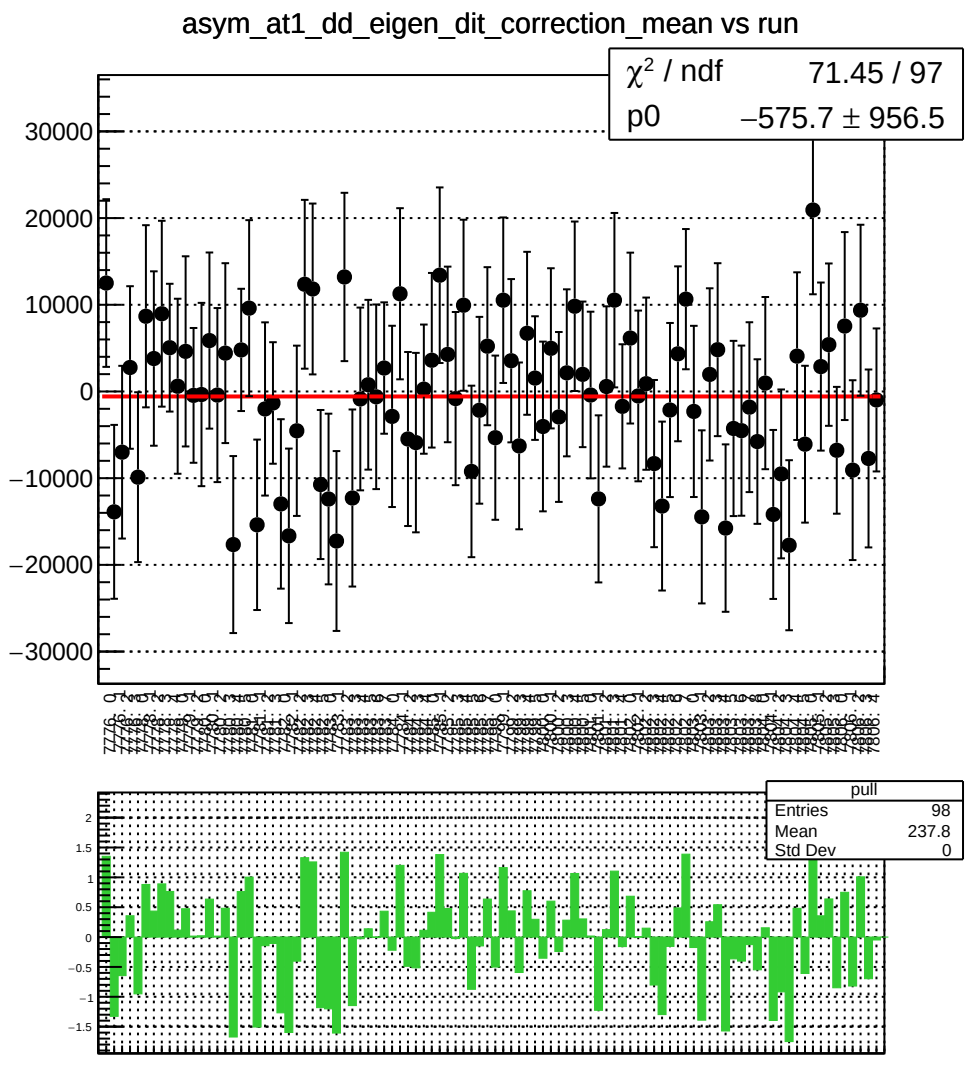

pull1D
Entries 98
Mean −0.007125
Std Dev 0.8538
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

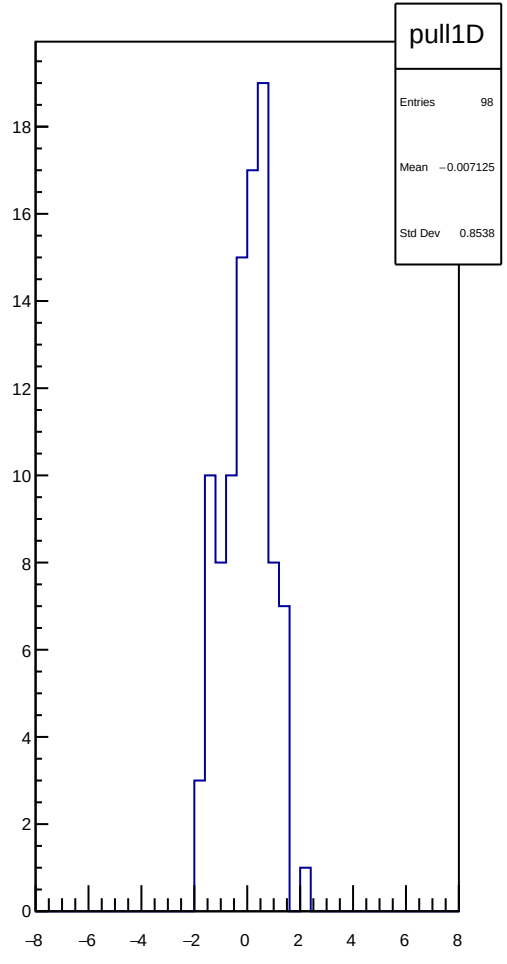

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 2090 / 97
p0 942.2 ± 0.6763
1060
1040
1020
1000
980
960
940
920
900
880
860

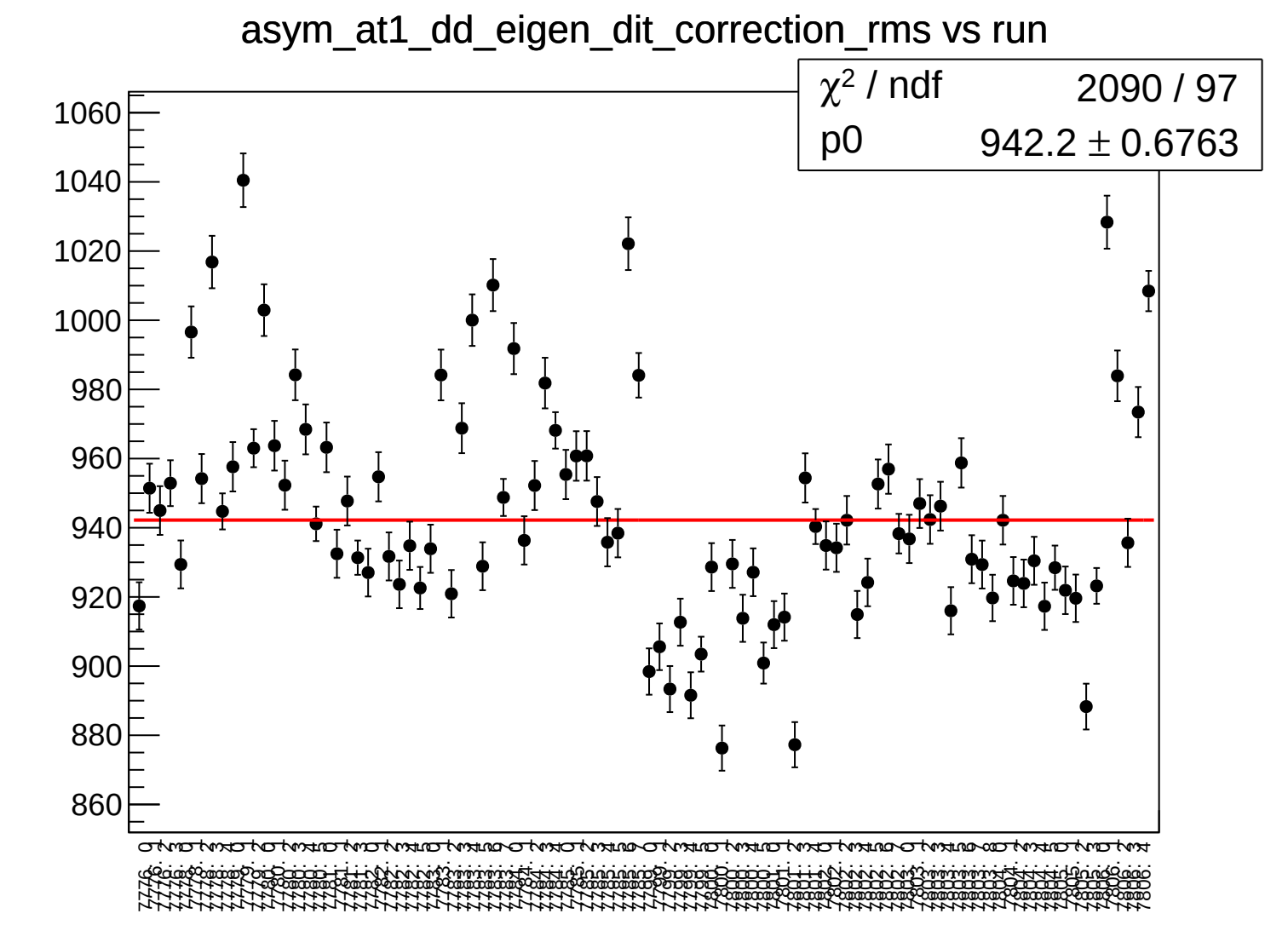

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 85.76 / 97
p0 −706 ± 1839
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 922.8
Std Dev 0
2
1
0
−1
−2

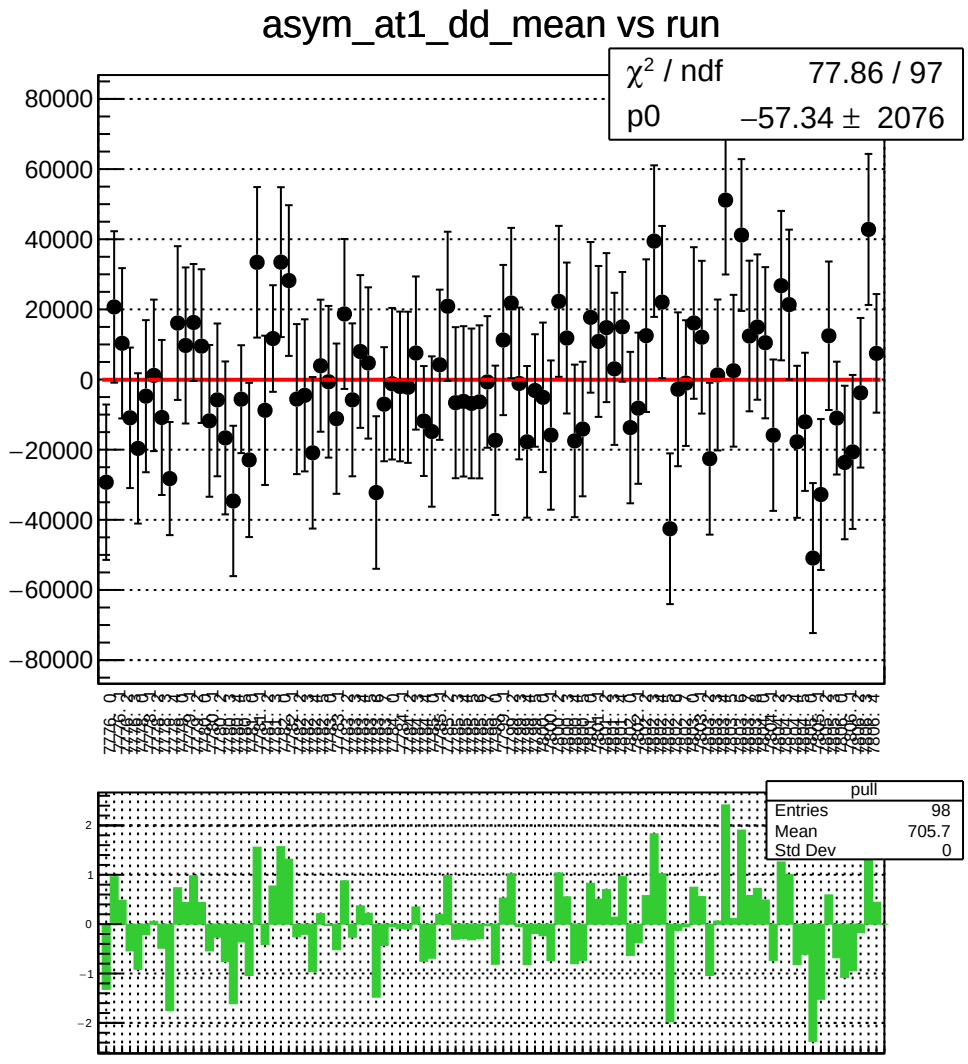

pull1D
Entries 98
Mean 0.002186
Std Dev 0.9355
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

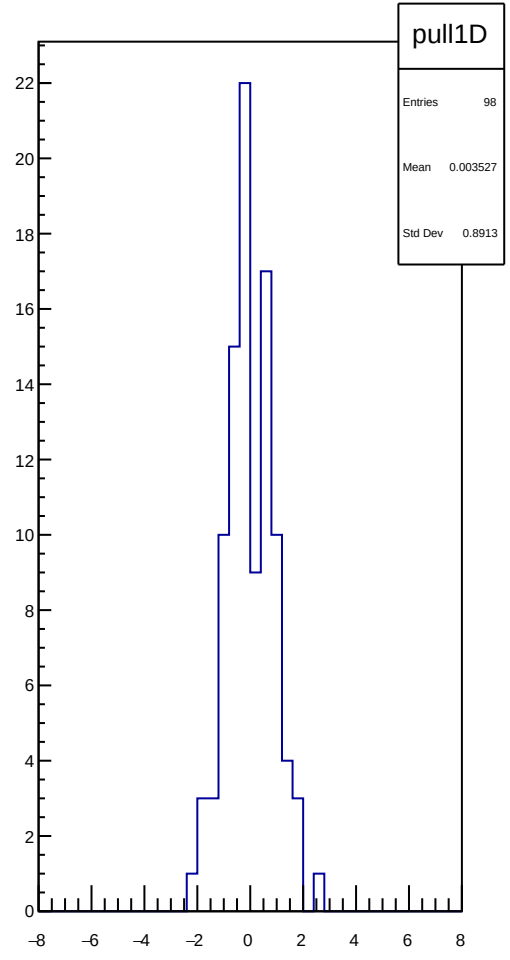

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 152.4 / 97
p0 1812 ± 1.3
1920
1900
1880
1860
1840
1820
1800
1780

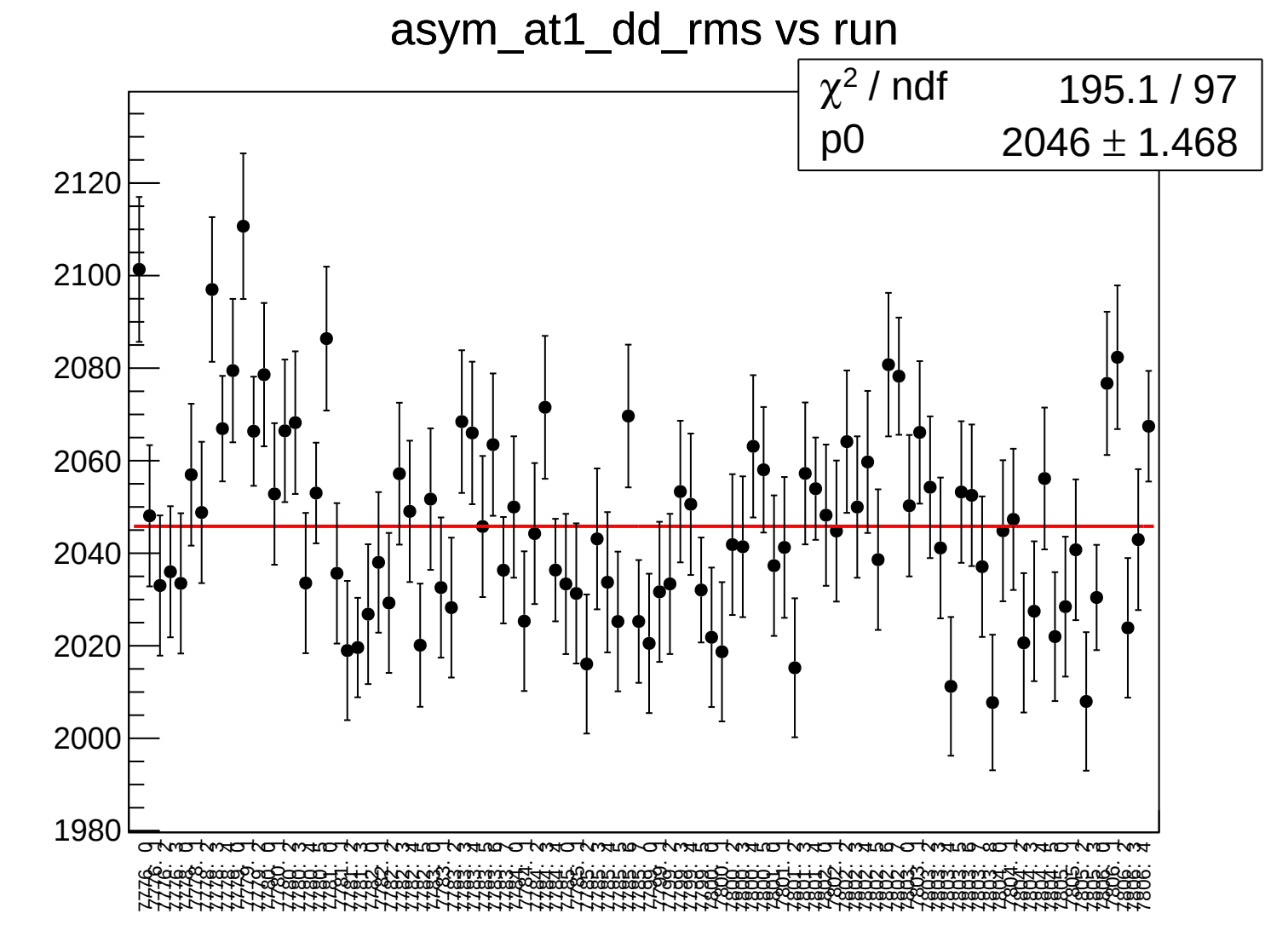

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.45 / 97
p0 −575.7 ± 956.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 237.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

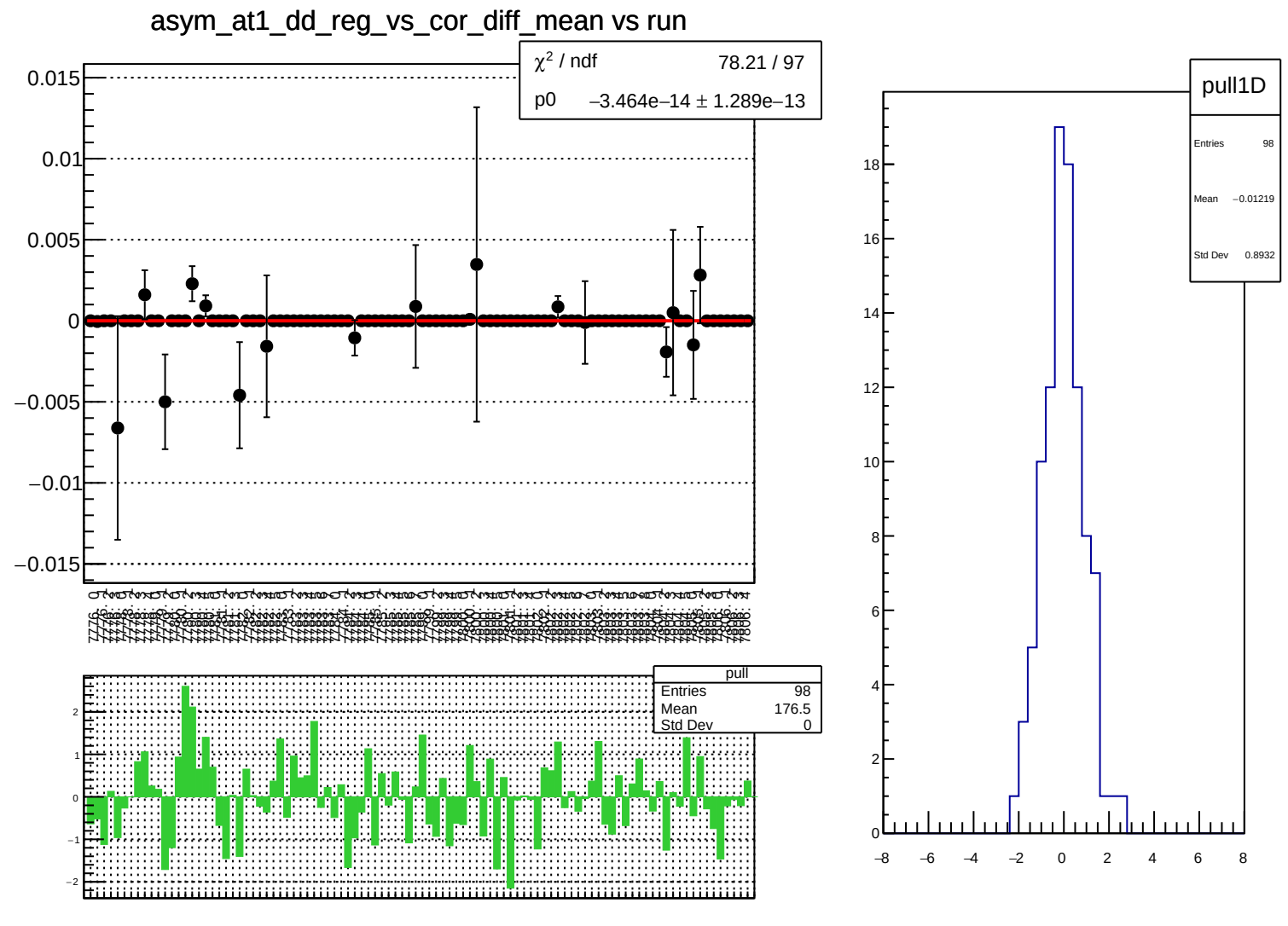

pull1D
Entries 98
Mean −0.007125
Std Dev 0.8538
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

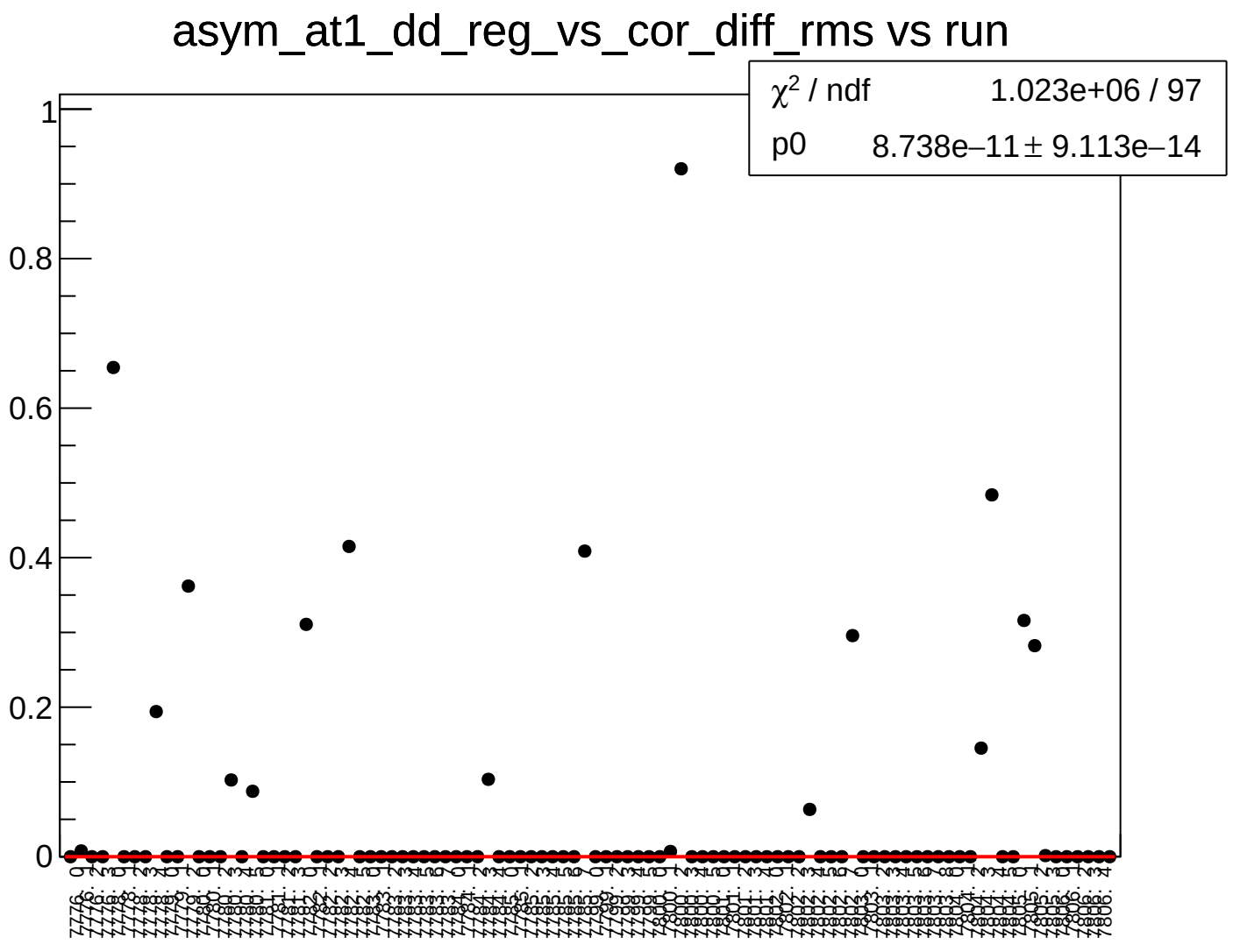

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2090 / 97
p0 942.2 ± 0.6763
1060
1040
1020
1000
980
960
940
920
900
880
860

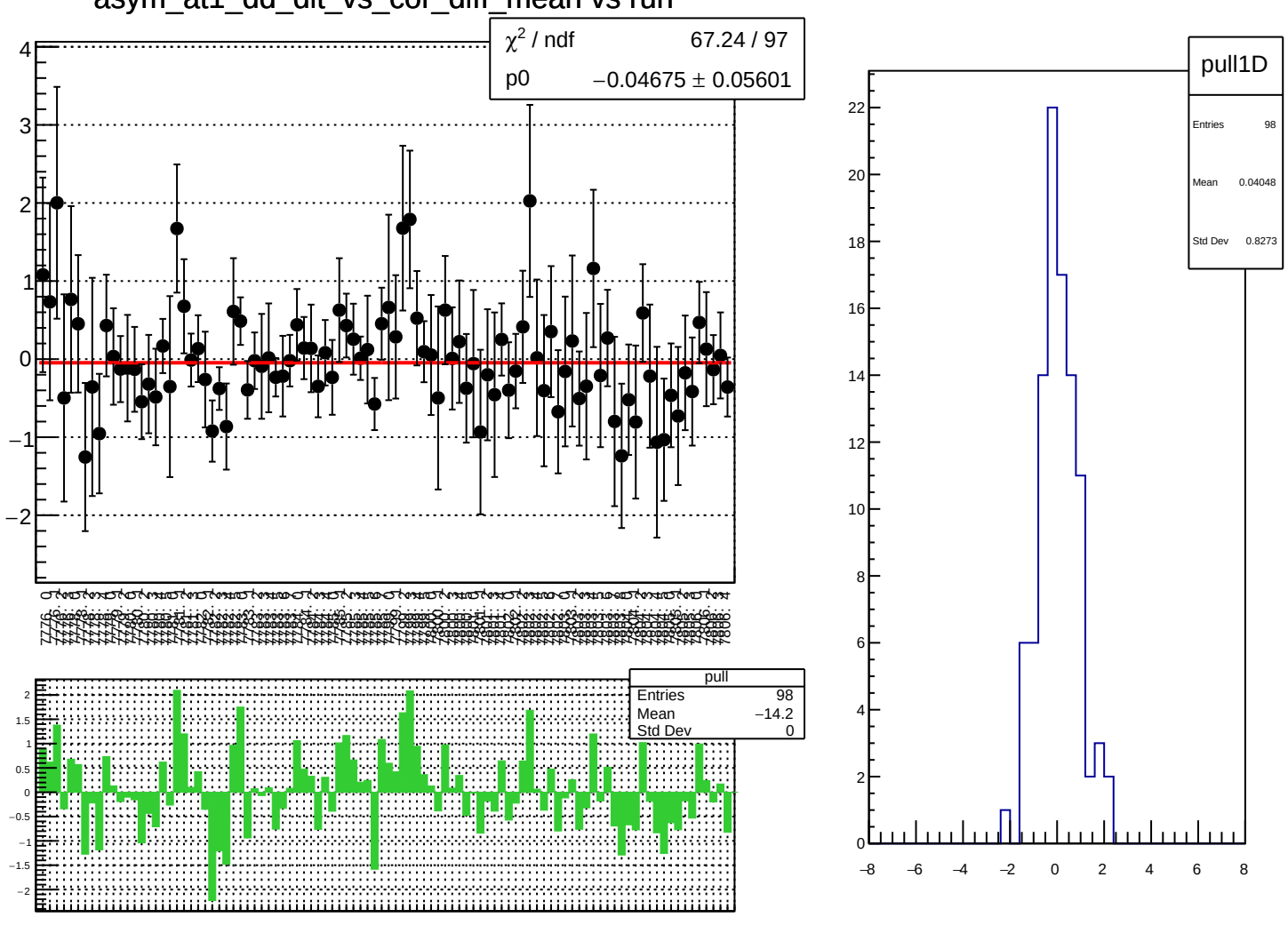

asym_at1_dd_mean vs run
χ² / ndf 77.86 / 97
p0 −57.34 ± 2076
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 705.7
Std Dev 0
2
1
0
−1
−2

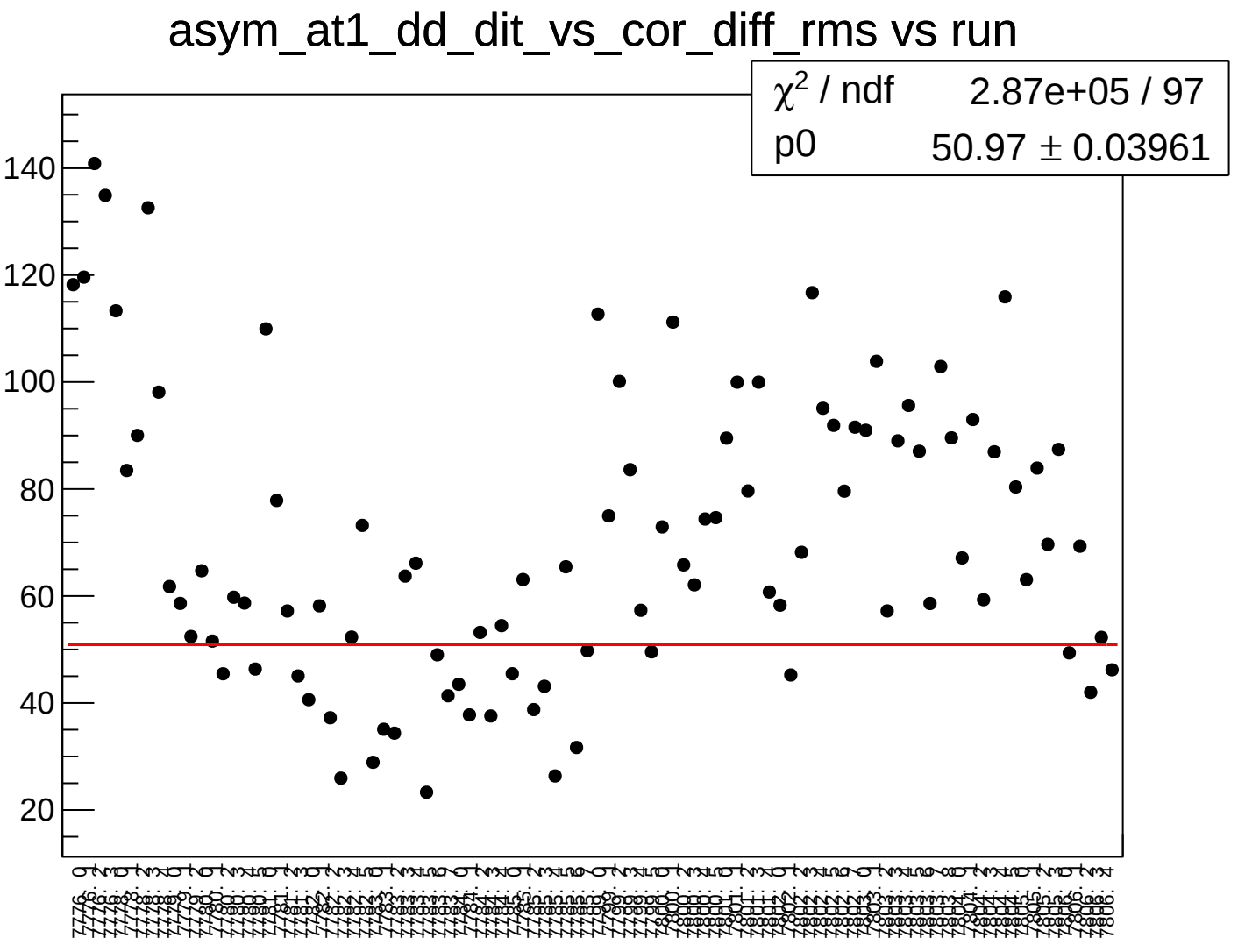

pull1D
Entries 98
Mean 0.003527
Std Dev 0.8913
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

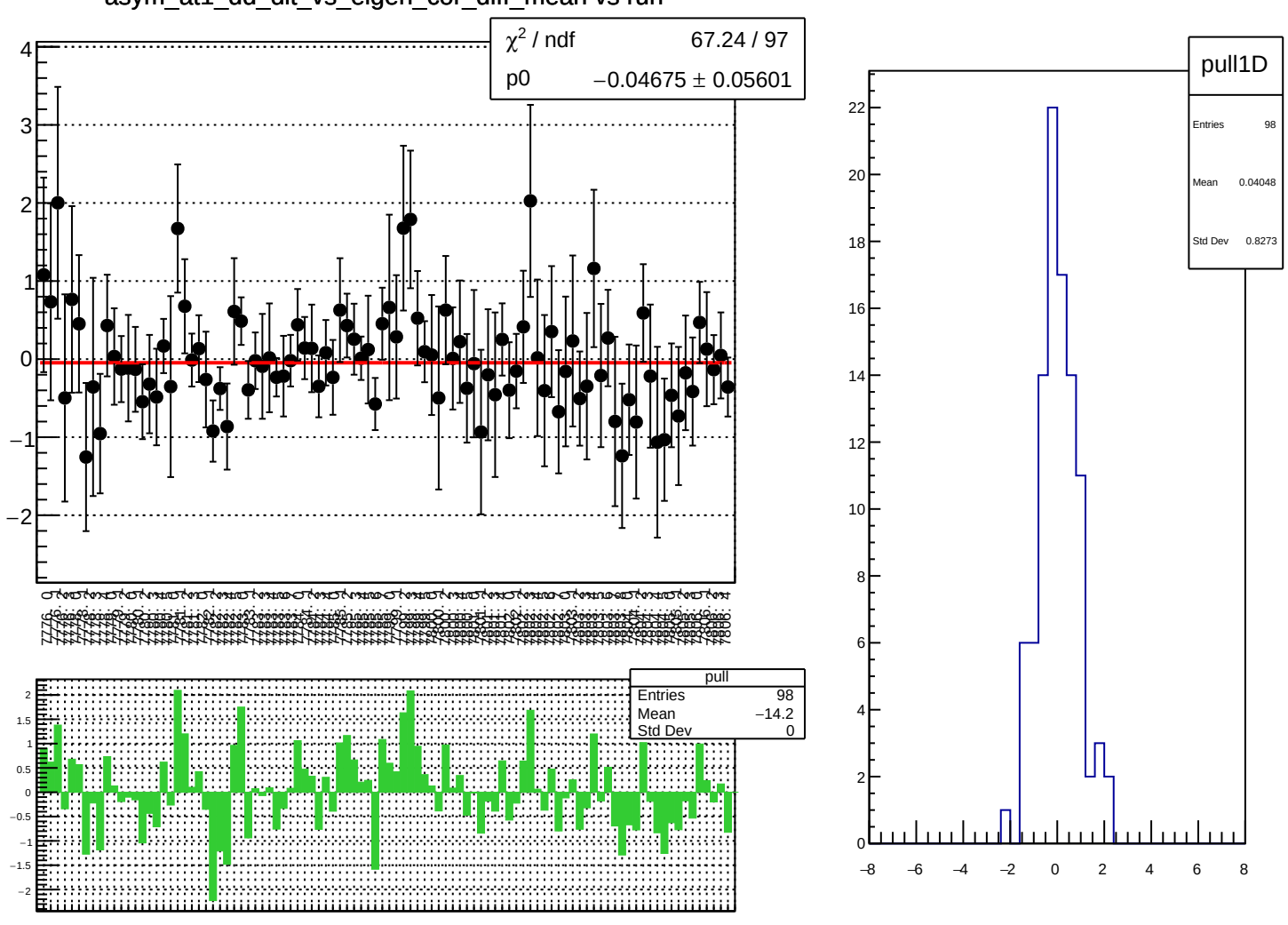

asym_at1_dd_rms vs run
χ^2 / ndf 195.1 / 97
p0 2046 ± 1.468
2120
2100
2080
2060
2040
2020
2000
1980

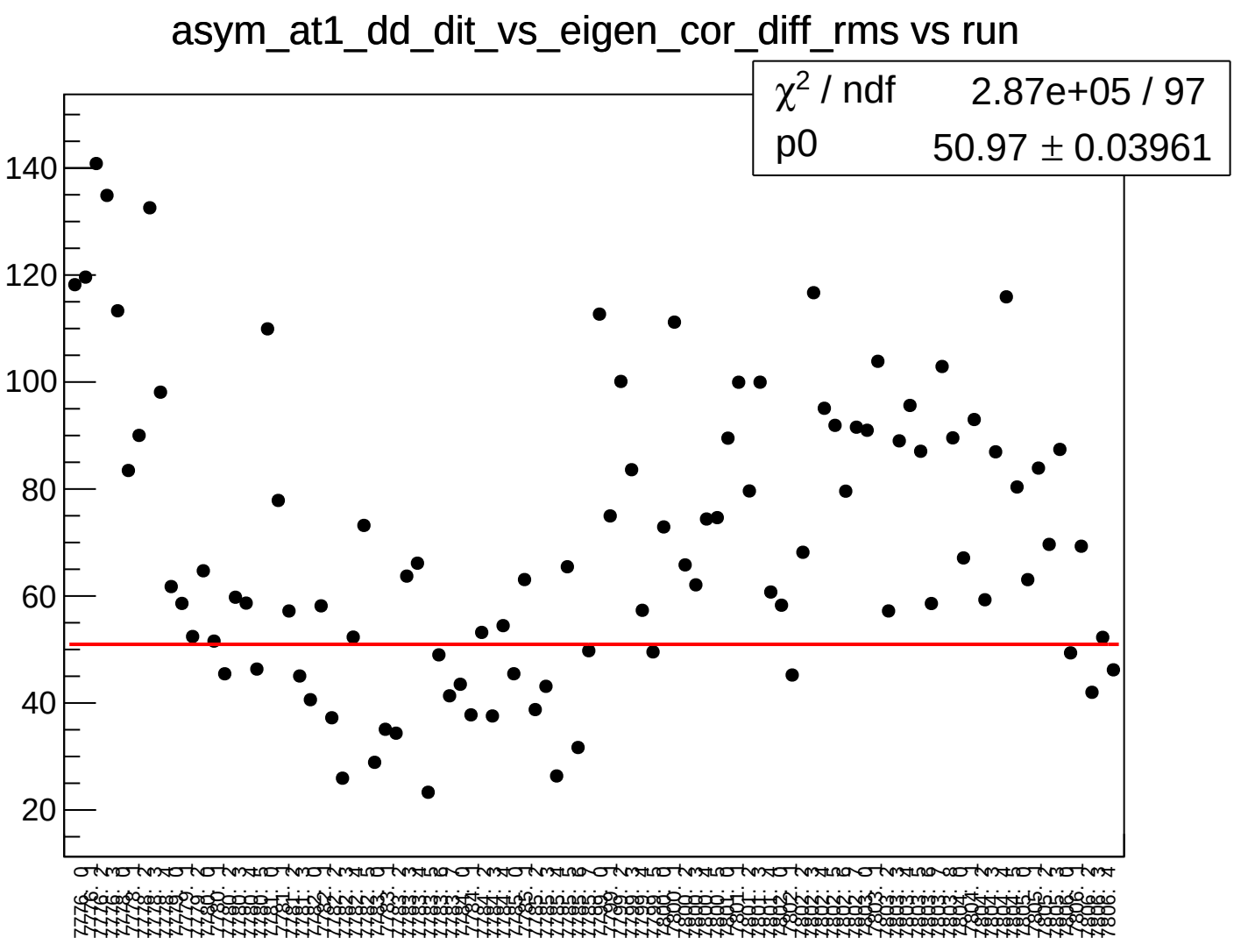

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.21 / 97
p0 −3.464e−14 ± 1.289e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 98
Mean 176.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01219
Std Dev 0.8932
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

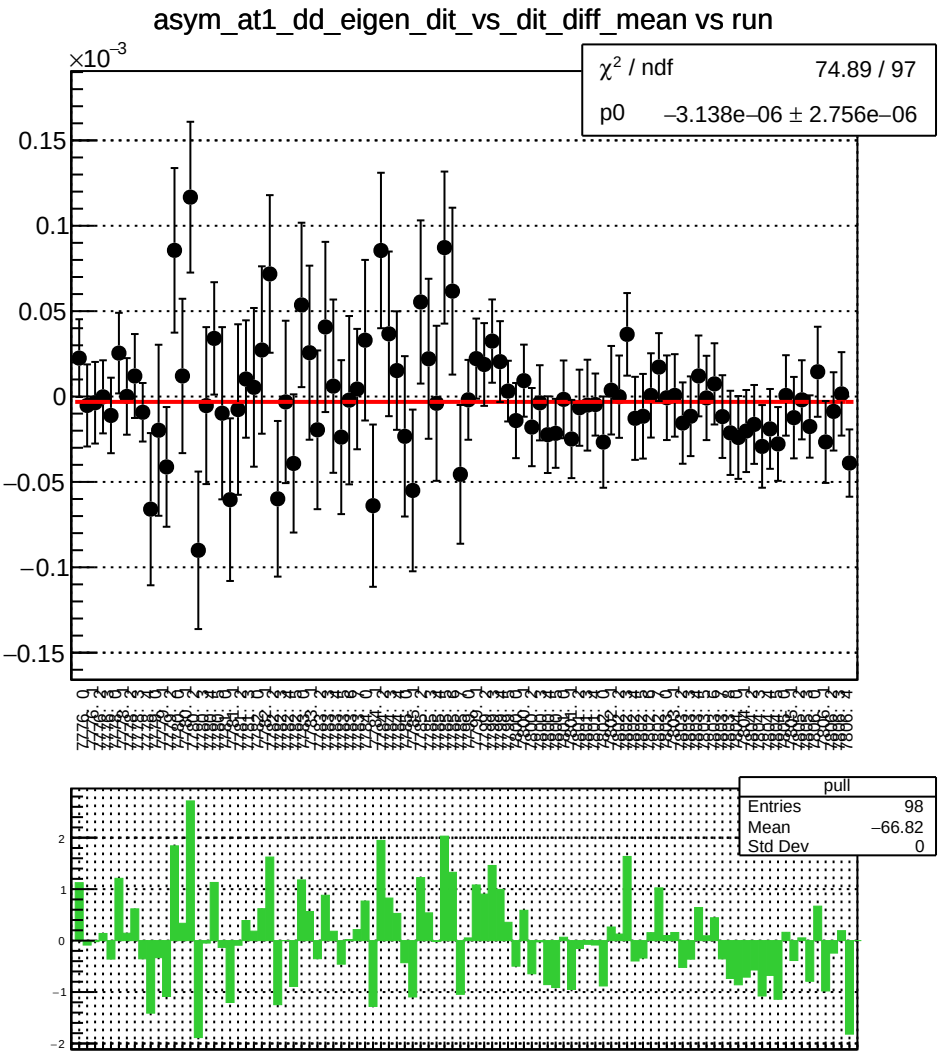

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.023e+06 / 97
p0 8.738e−11 ± 9.113e−14
1
0.8
0.6
0.4
0.2
0

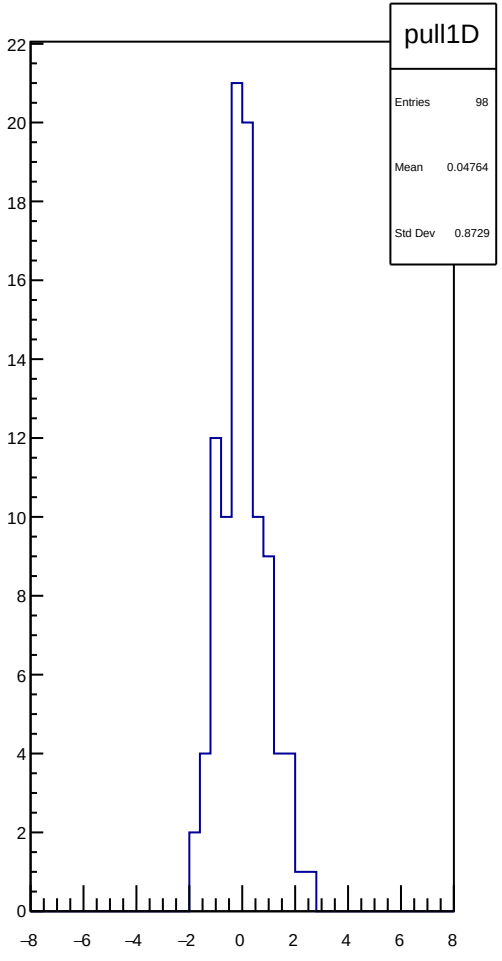

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.24 / 97
p0 −0.04675 ± 0.05601
pull
Entries 98
Mean −14.2
Std Dev 0
pull1D
Entries 98
Mean 0.04048
Std Dev 0.8273

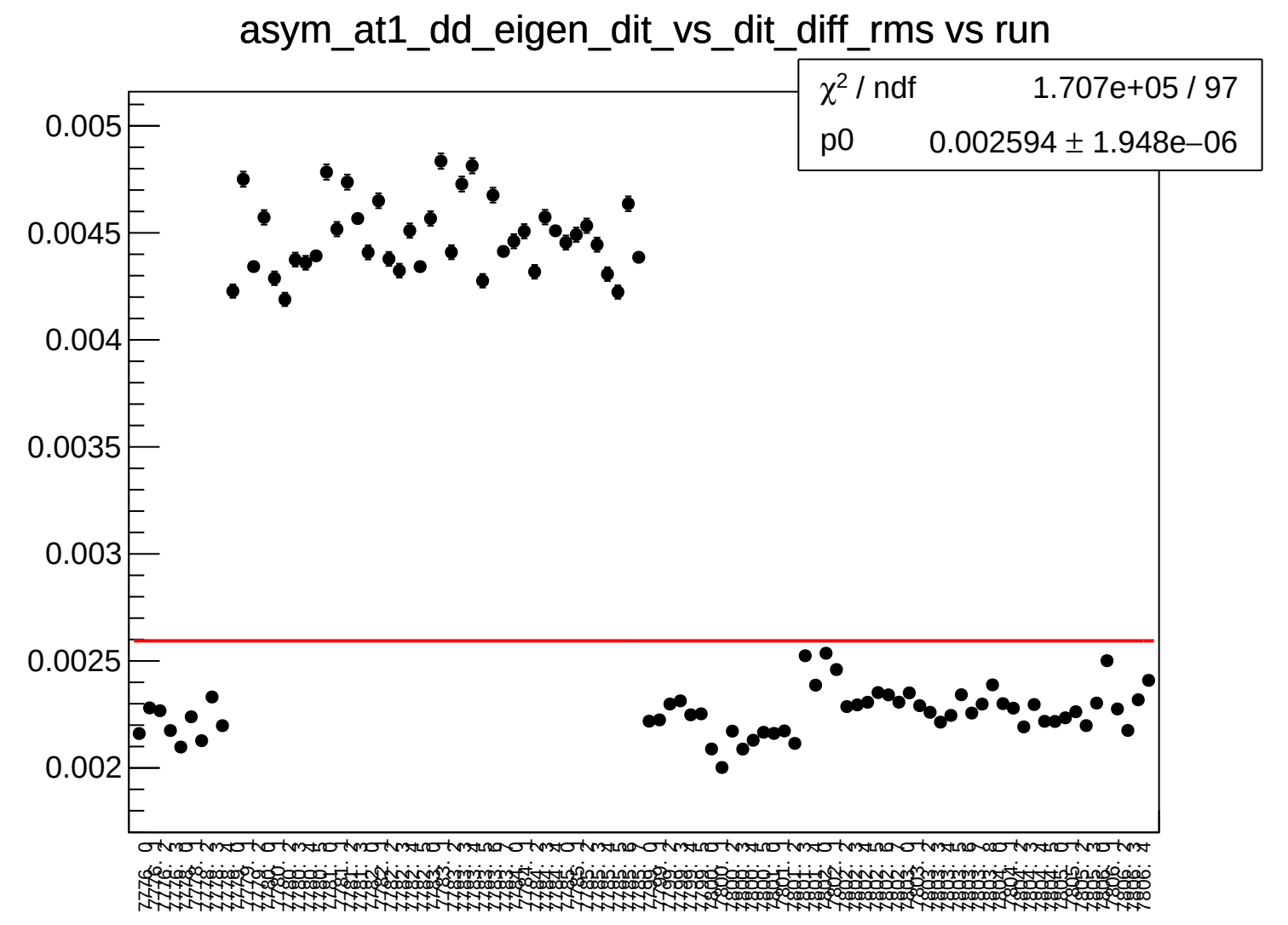

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.87e+05 / 97
p0 50.97 ± 0.03961
140
120
100
80
60
40
20

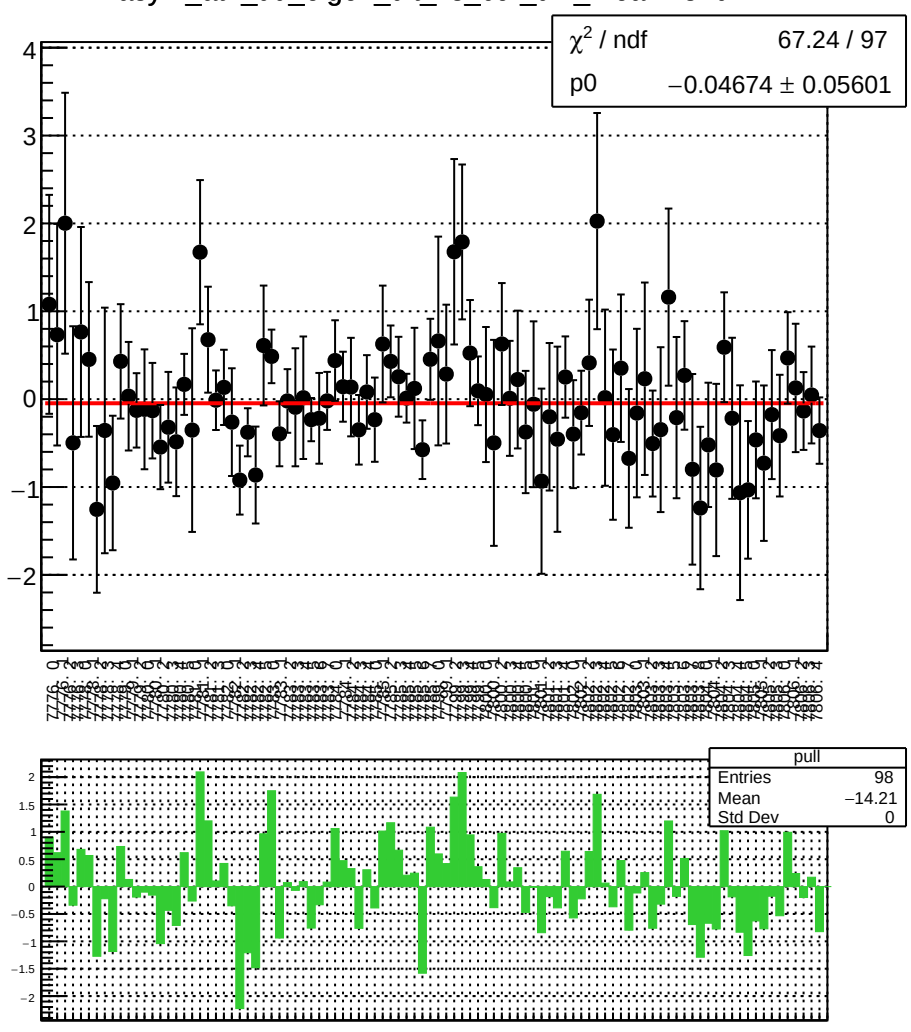

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.24 / 97
p0 −0.04675 ± 0.05601
pull
Entries 98
Mean −14.2
Std Dev 0
pull1D
Entries 98
Mean 0.04048
Std Dev 0.8273

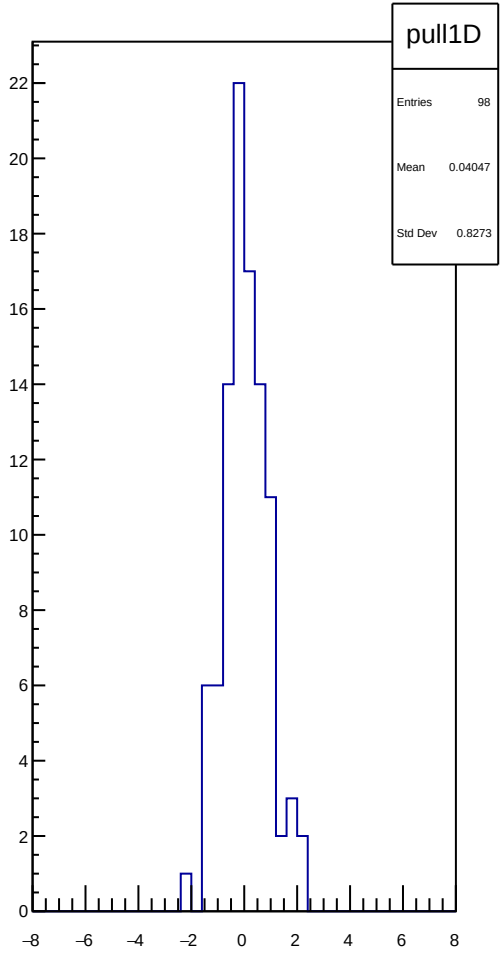

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.87e+05 / 97
p0 50.97 ± 0.03961
140
120
100
80
60
40
20

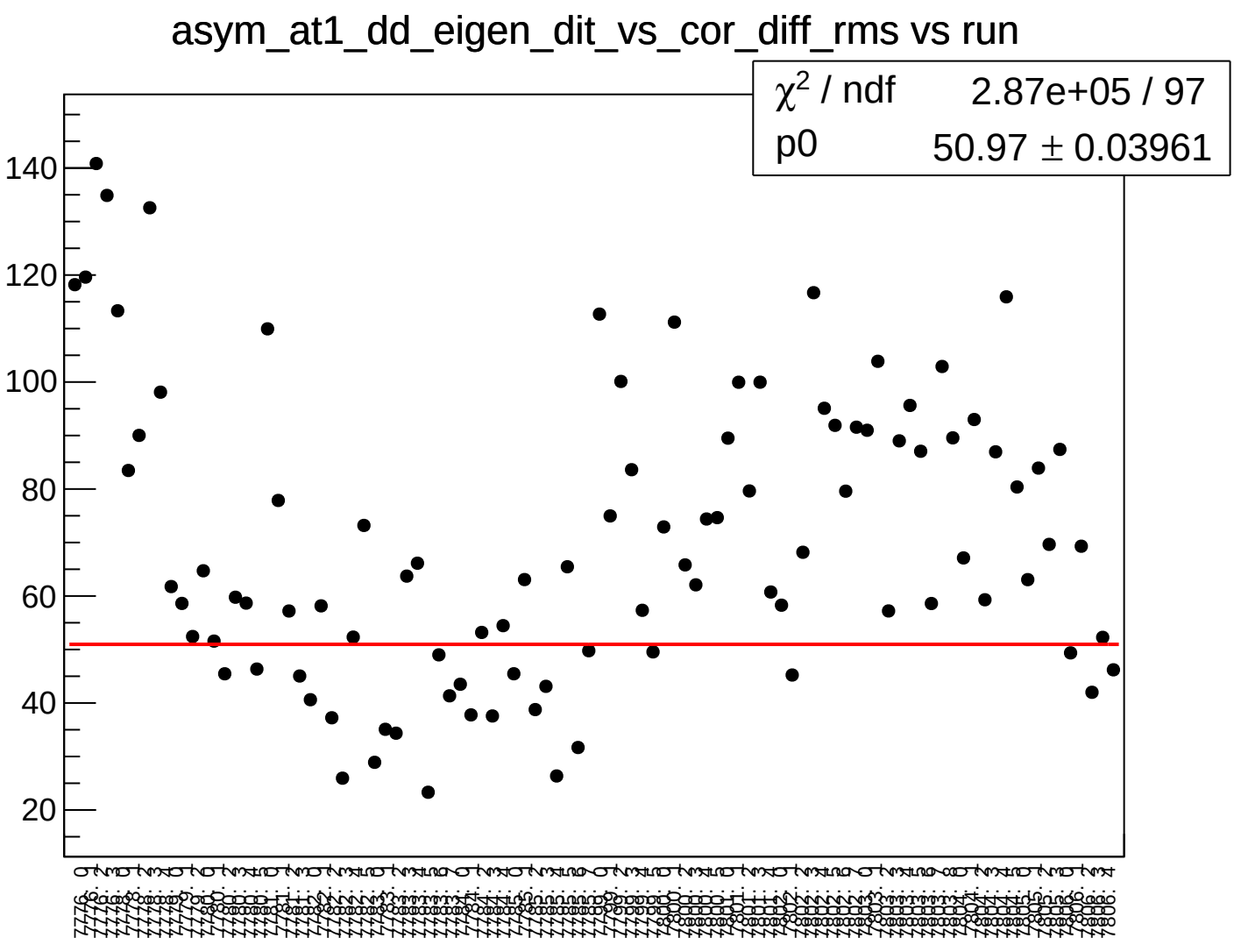

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.89 / 97
p0 −3.138e−06 ± 2.756e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 98
Mean −66.82
Std Dev 0
2
1
0
−1
−2

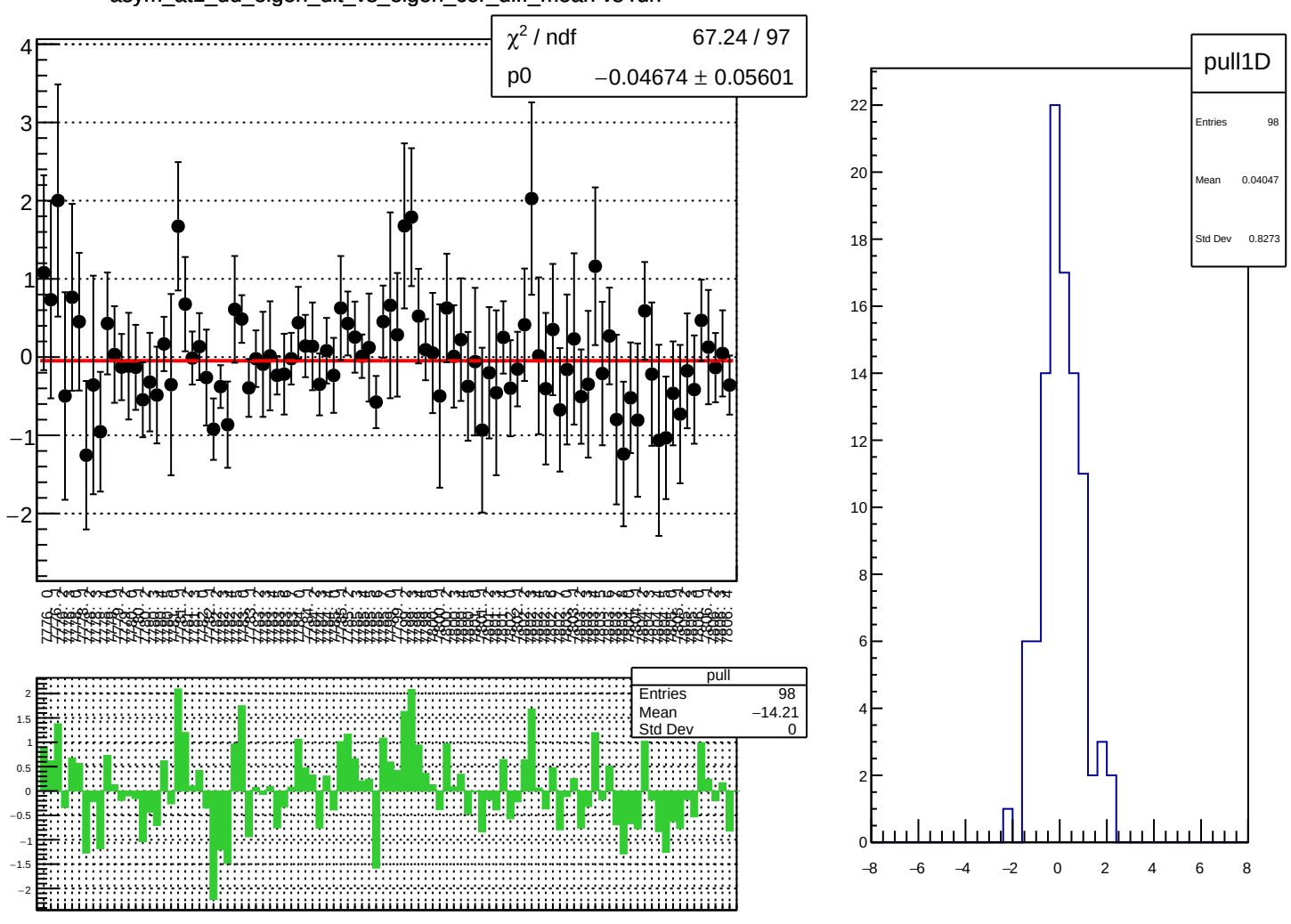

pull1D
Entries 98
Mean 0.04764
Std Dev 0.8729
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

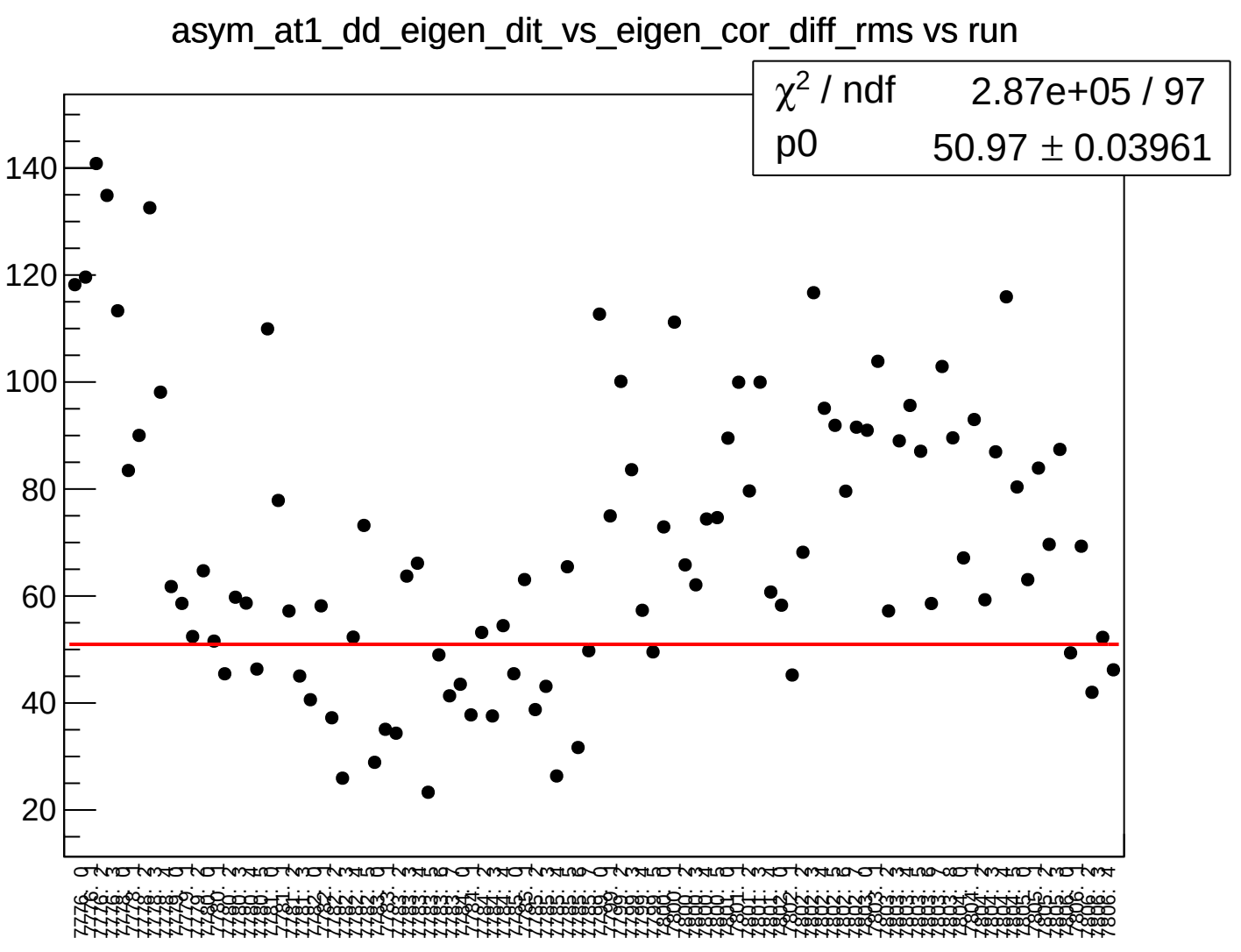

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.707e+05 / 97
p0 0.002594 ± 1.948e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

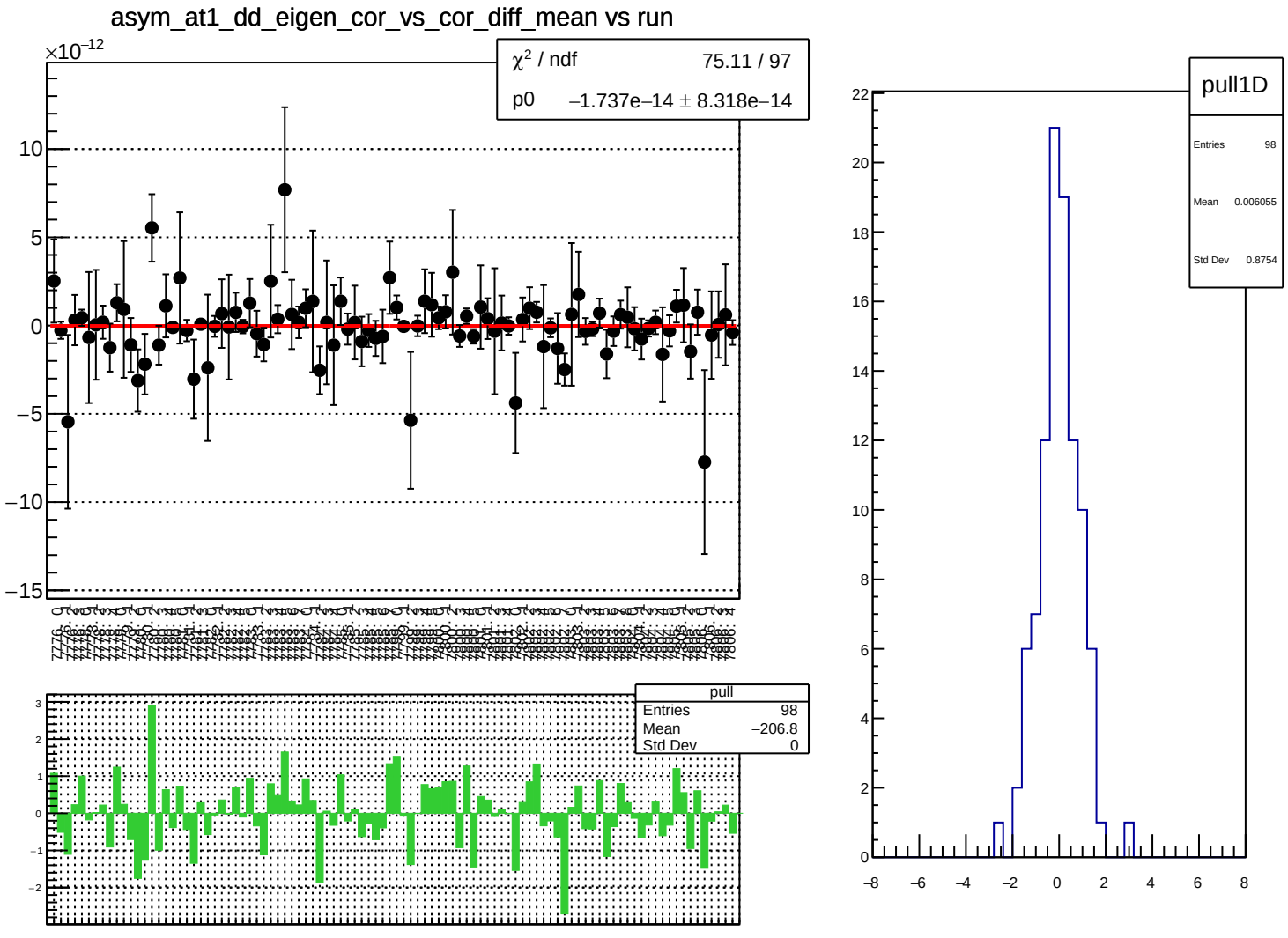

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.24 / 97
p0 −0.04674 ± 0.05601
pull
Entries 98
Mean −14.21
Std Dev 0

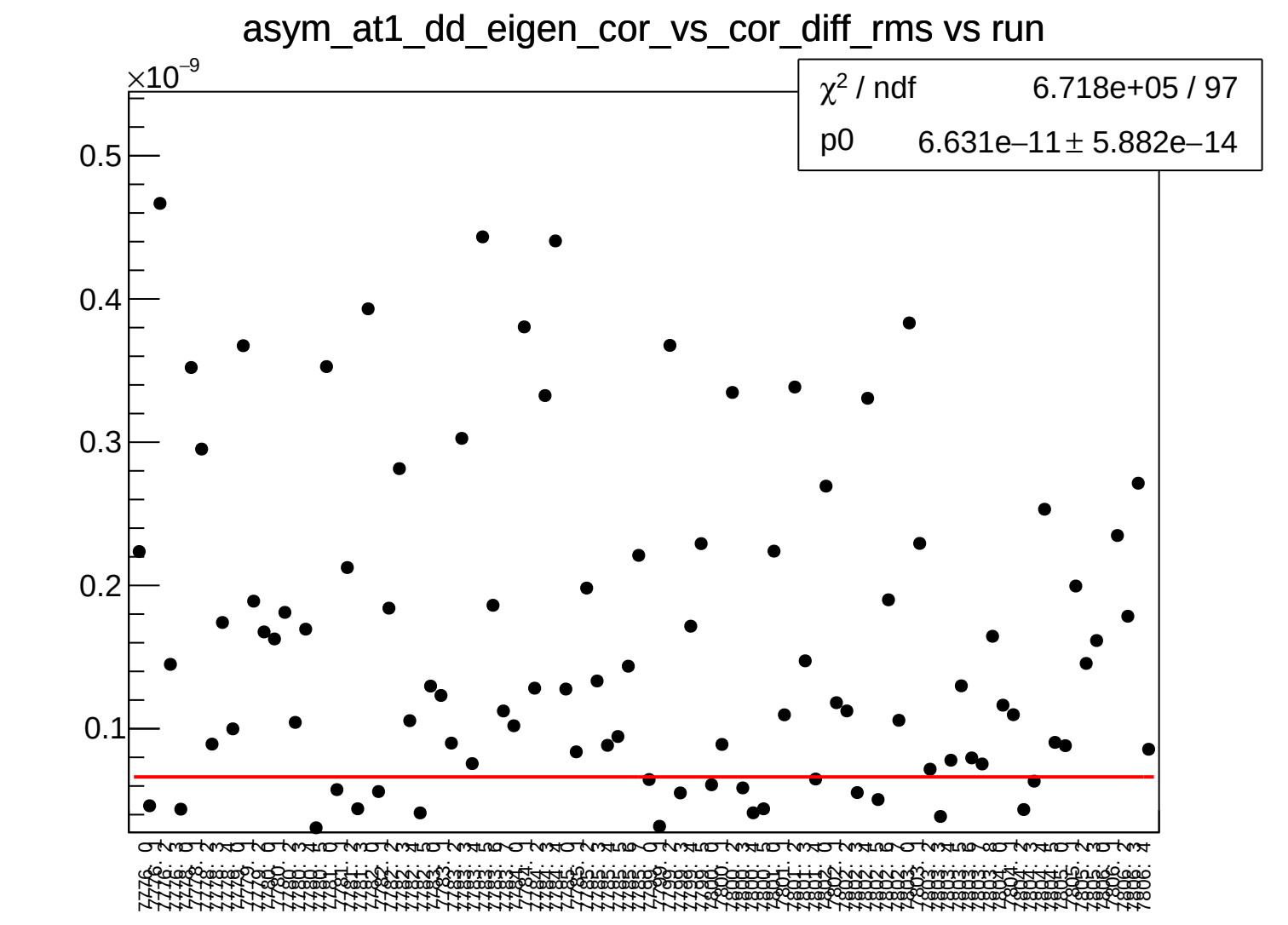

pull1D
Entries 98
Mean 0.04047
Std Dev 0.8273

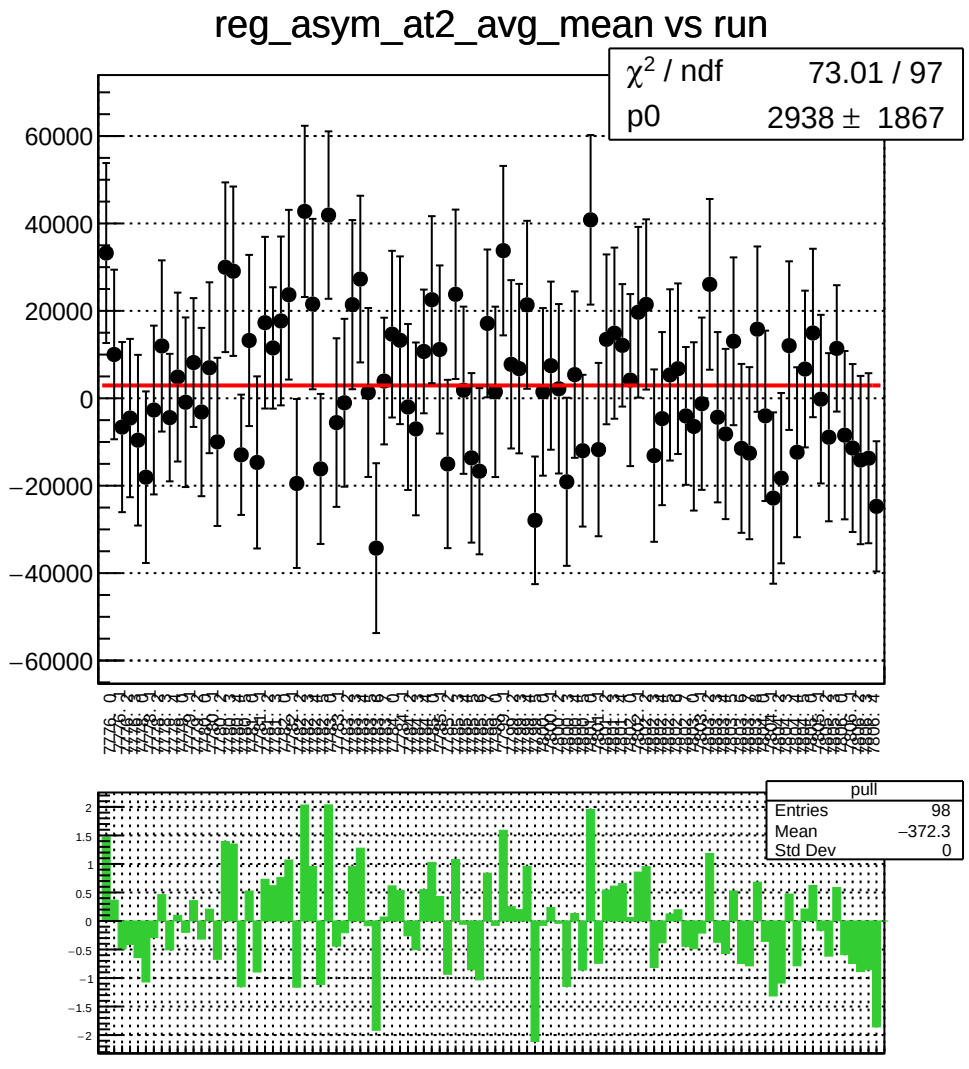

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.87e+05 / 97
p0 50.97 ± 0.03961
140
120
100
80
60
40
20

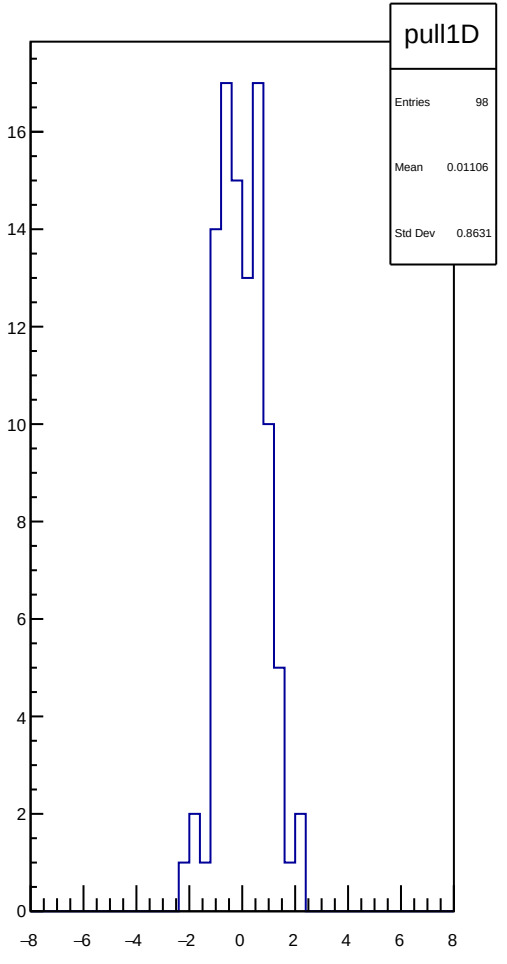

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.24 / 97
p0 −0.04674 ± 0.05601
pull
Entries 98
Mean −14.21
Std Dev 0
pull1D
Entries 98
Mean 0.04047
Std Dev 0.8273

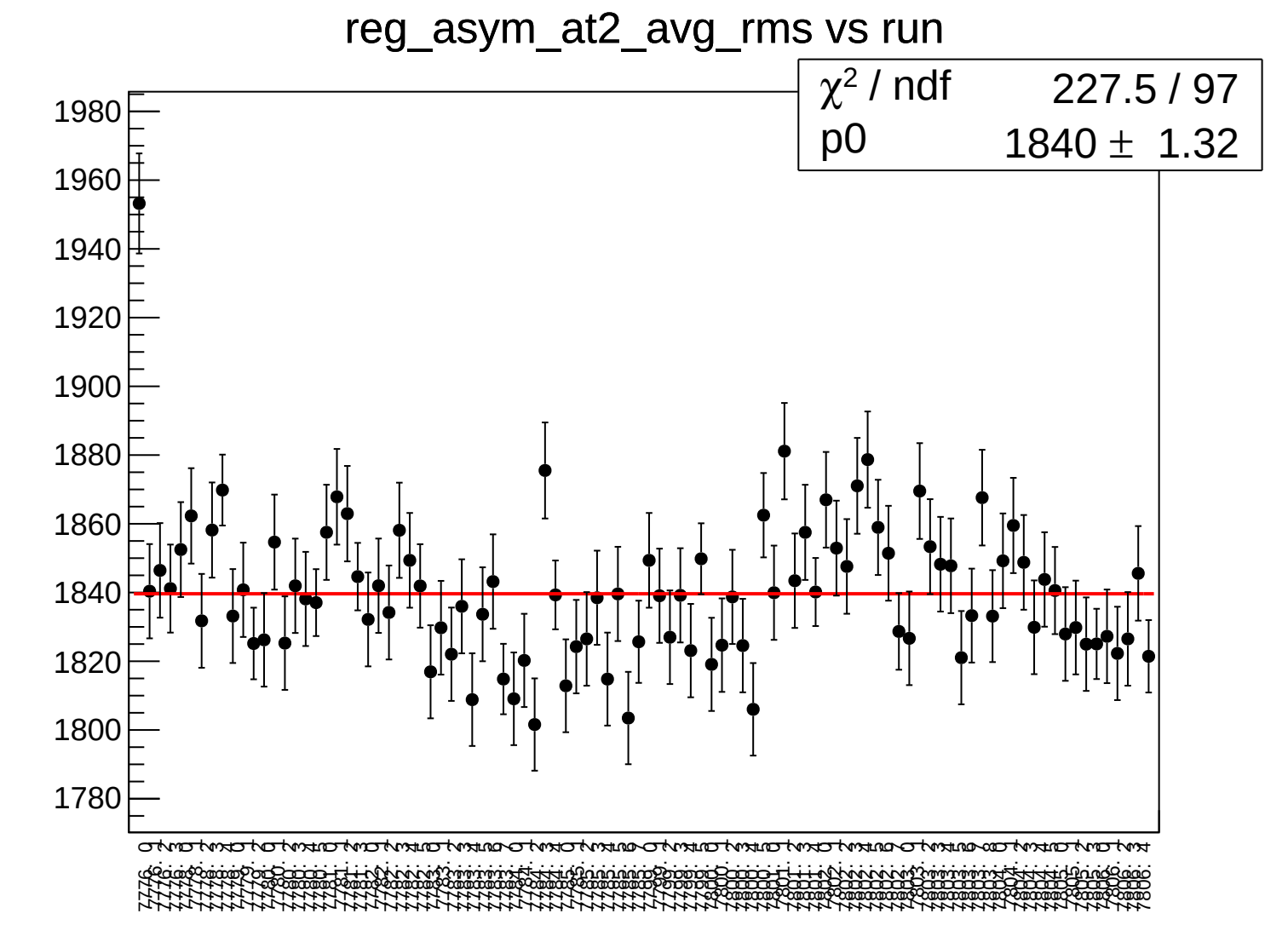

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.87e+05 / 97
p0 50.97 ± 0.03961
140
120
100
80
60
40
20

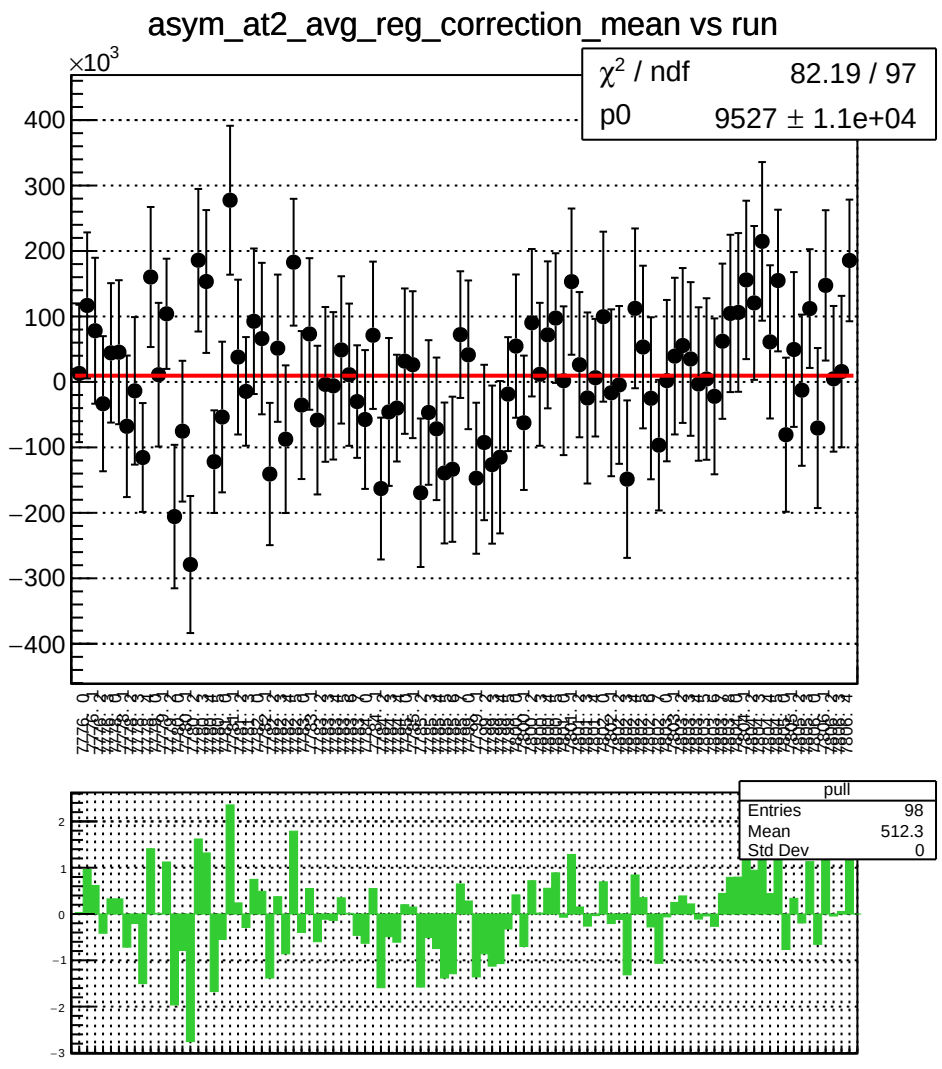

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.11 / 97
p0 −1.737e−14 ± 8.318e−14
pull
Entries 98
Mean −206.8
Std Dev 0
pull1D
Entries 98
Mean 0.006055
Std Dev 0.8754

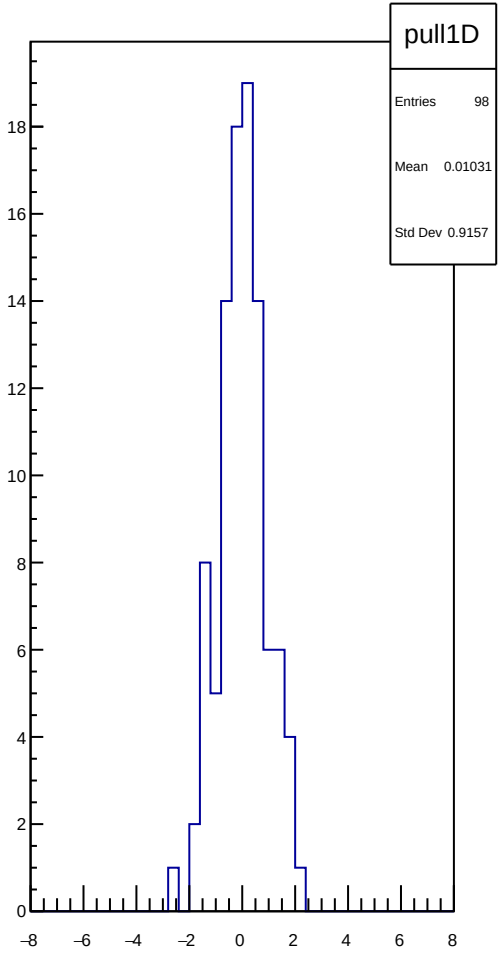

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.718e+05 / 97
p0 6.631e−11 ± 5.882e−14
0.5
0.4
0.3
0.2
0.1

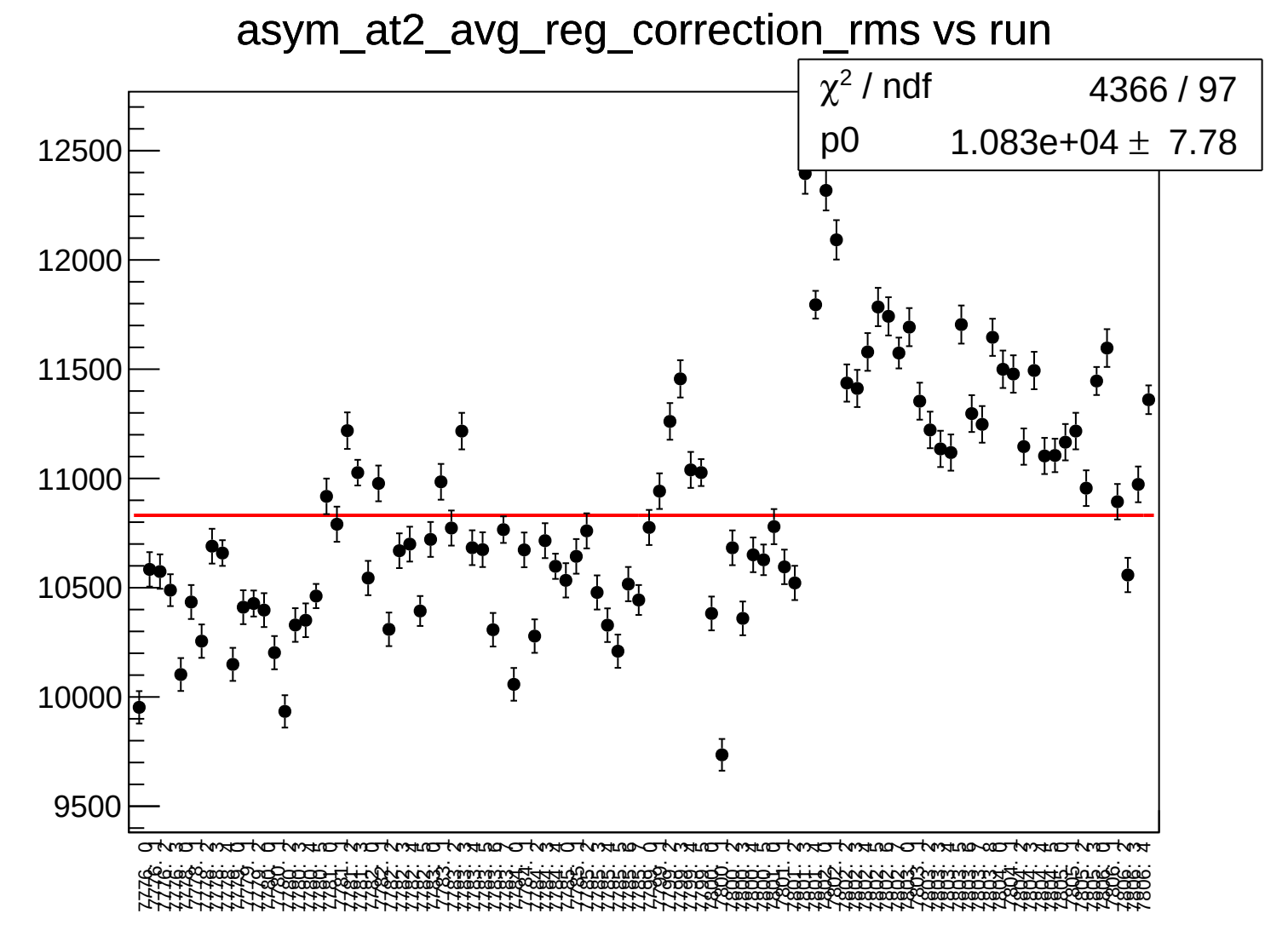

reg_asym_at2_avg_mean vs run
χ² / ndf 73.01 / 97
p0 2938 ± 1867
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −372.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

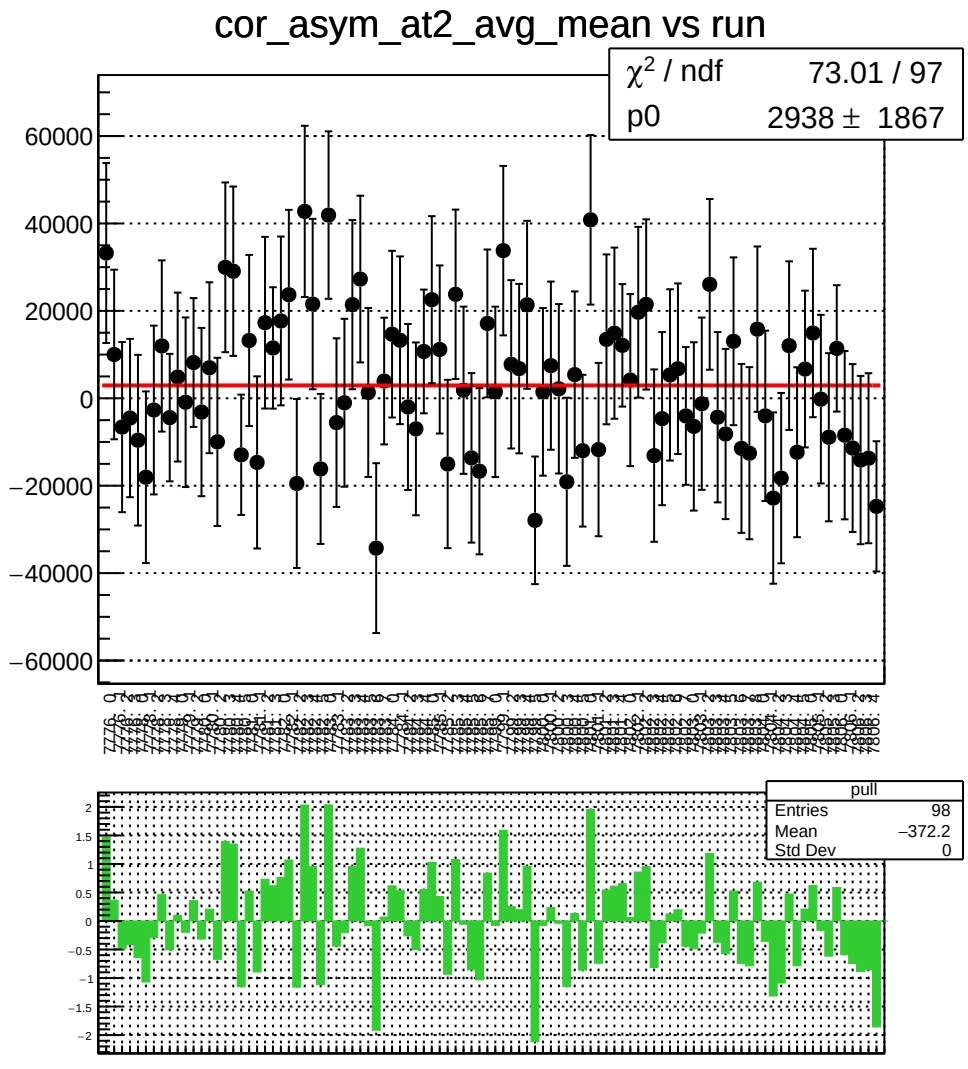

pull1D
Entries 98
Mean 0.01106
Std Dev 0.8631
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

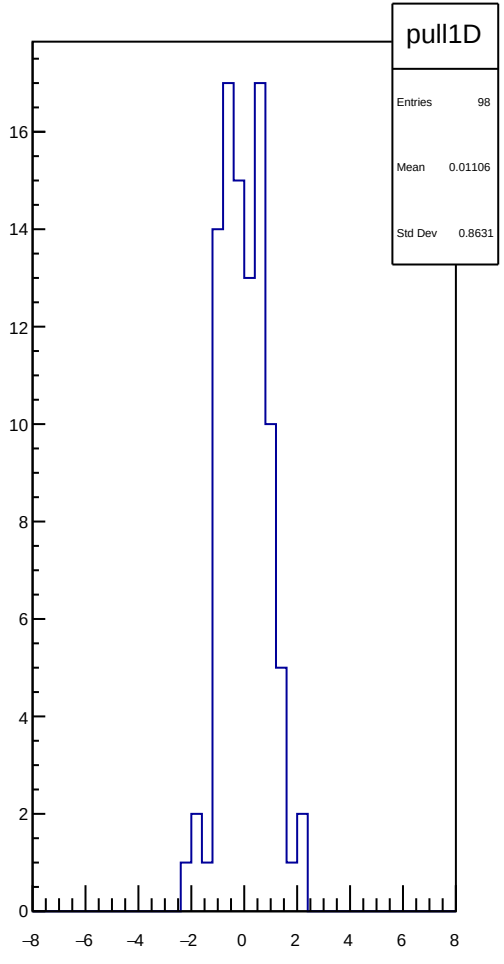

reg_asym_at2_avg_rms vs run
χ² / ndf 227.5 / 97
p0 1840 ± 1.32
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

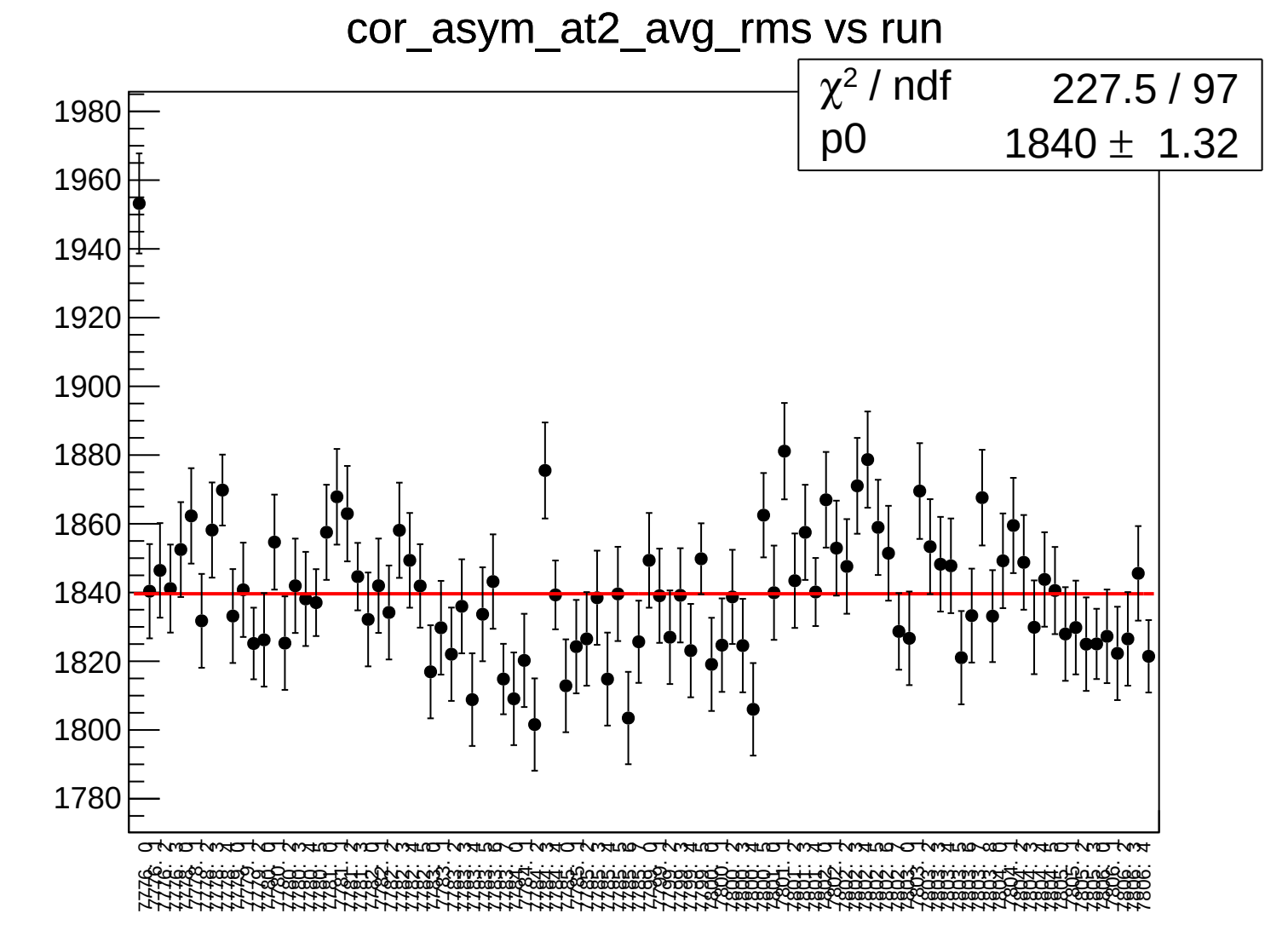

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.19 / 97
p0 9527 ± 1.1e+04
pull
Entries 98
Mean 512.3
Std Dev 0

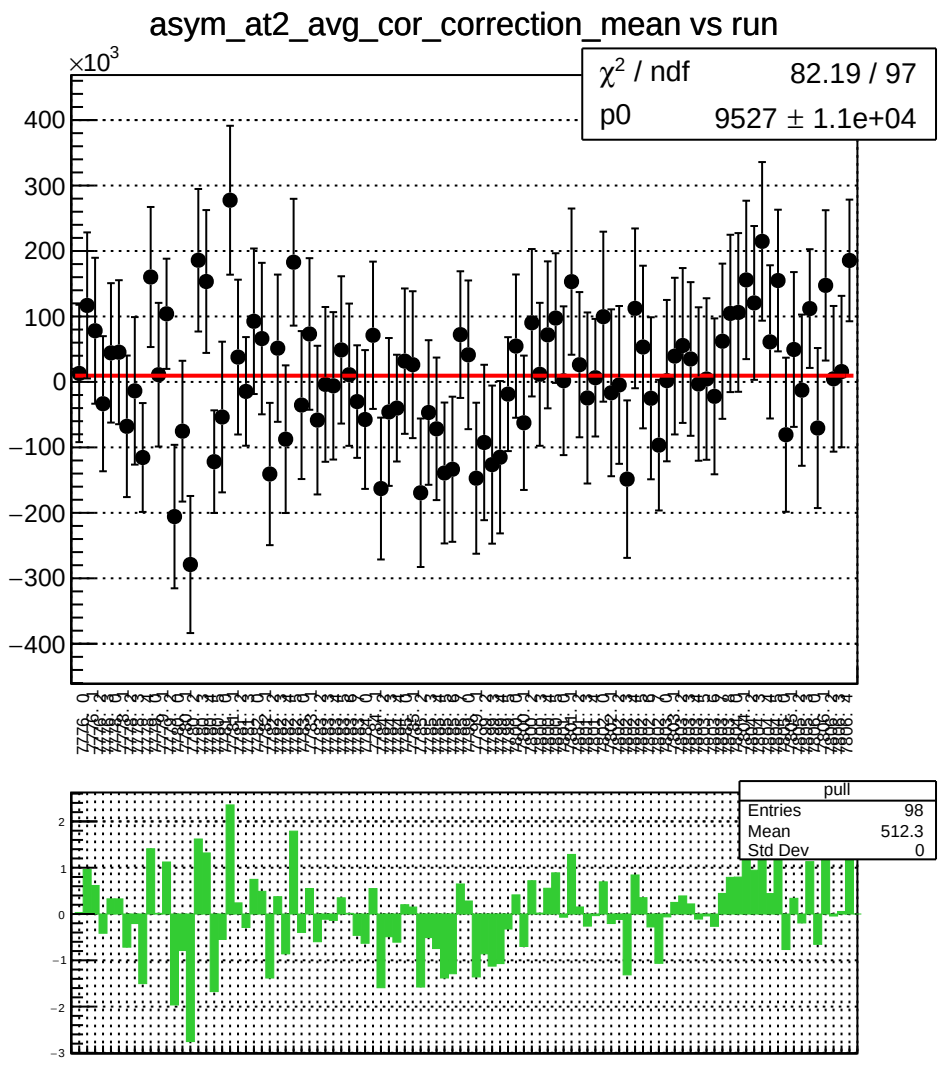

pull1D
Entries 98
Mean 0.01031
Std Dev 0.9157

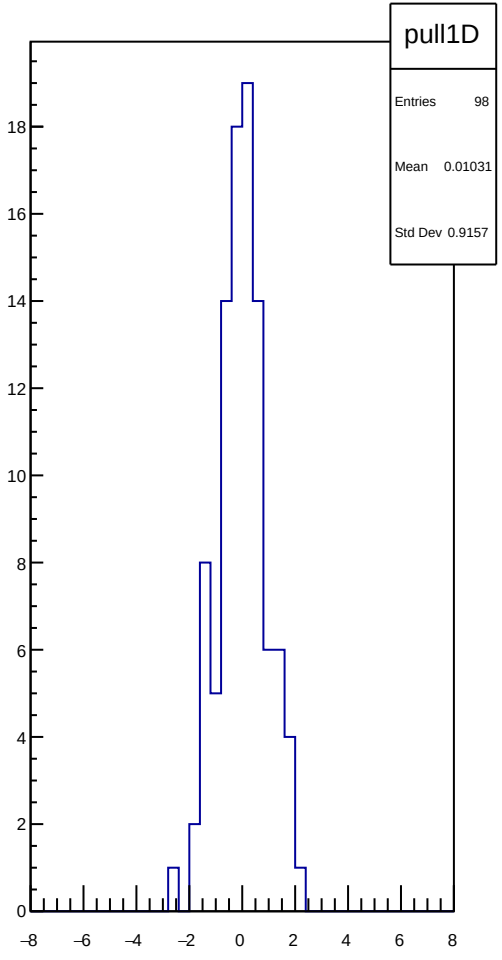

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 4366 / 97
p0 1.083e+04 ± 7.78
12500
12000
11500
11000
10500
10000
9500

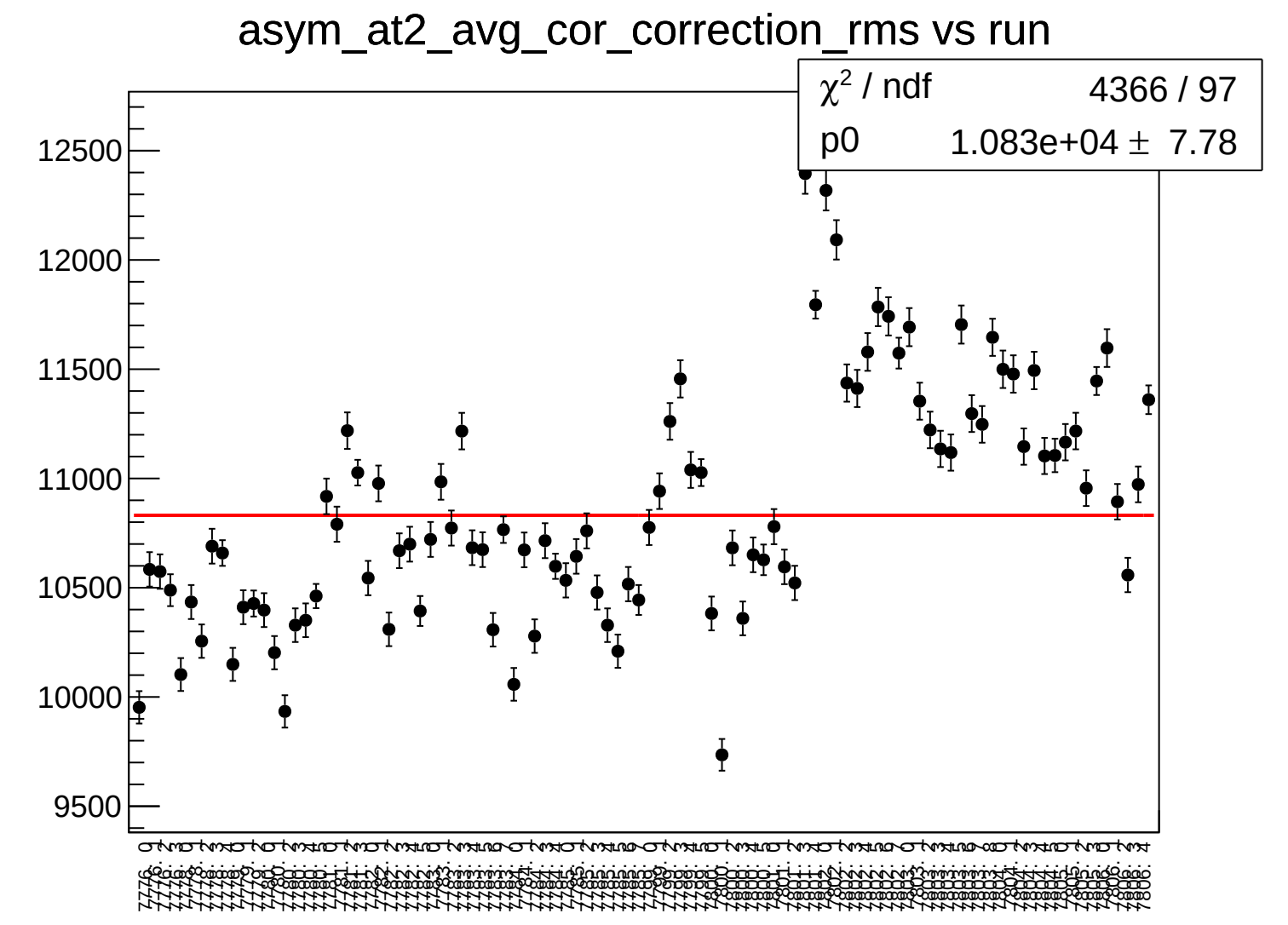

cor_asym_at2_avg_mean vs run
χ² / ndf 73.01 / 97
p0 2938 ± 1867
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −372.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

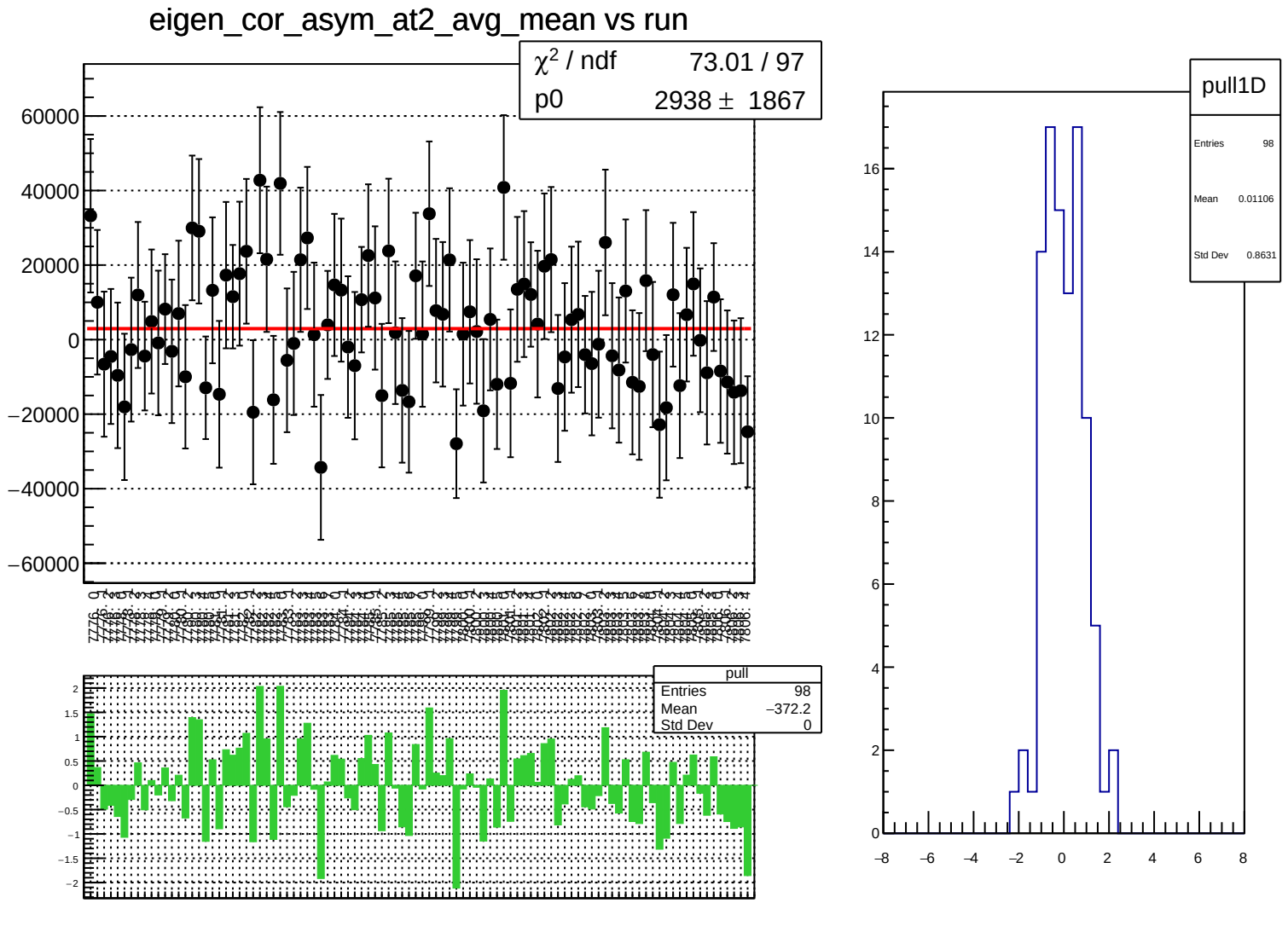

pull1D
Entries 98
Mean 0.01106
Std Dev 0.8631
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

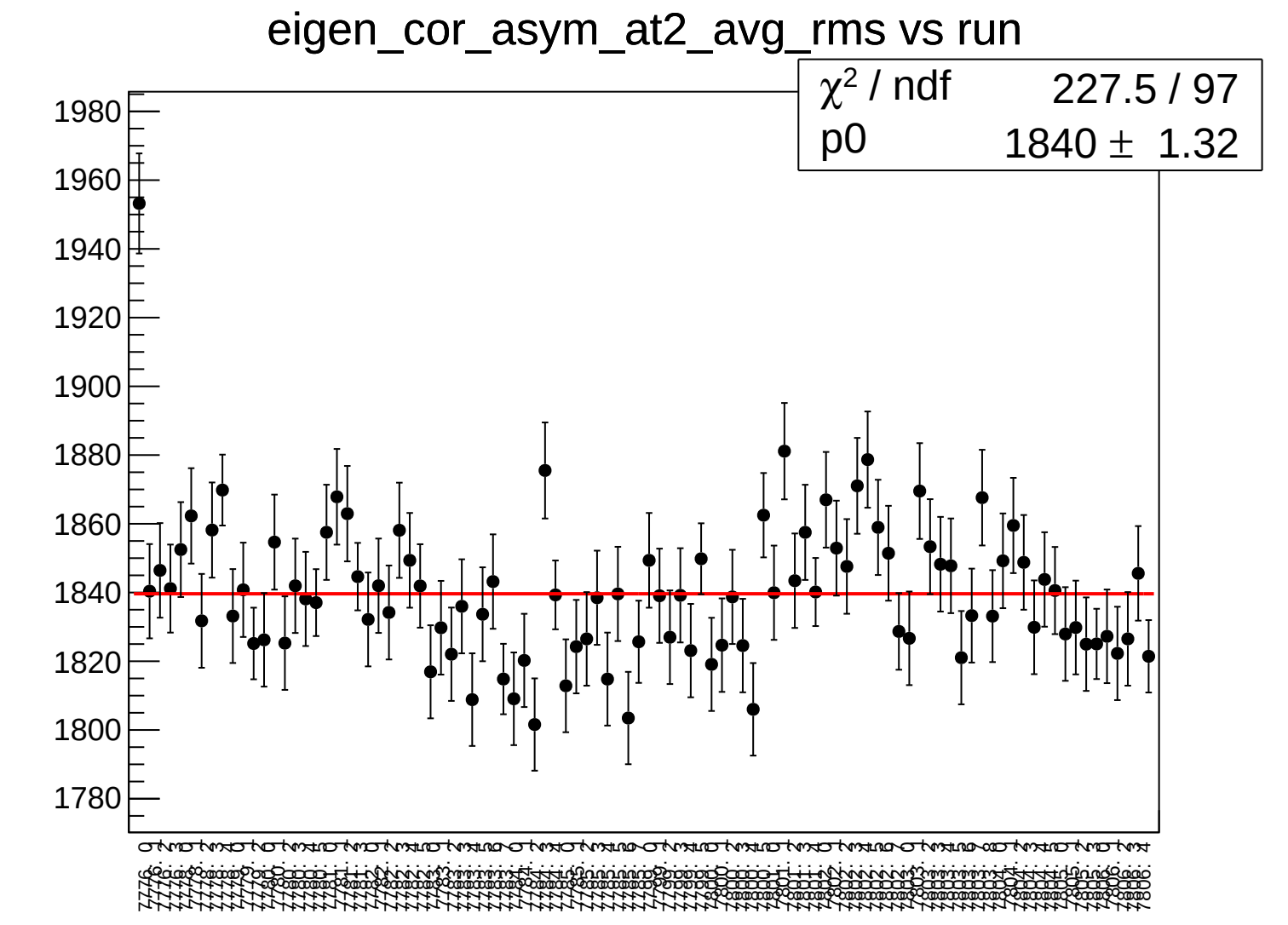

cor_asym_at2_avg_rms vs run
χ² / ndf 227.5 / 97
p0 1840 ± 1.32
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

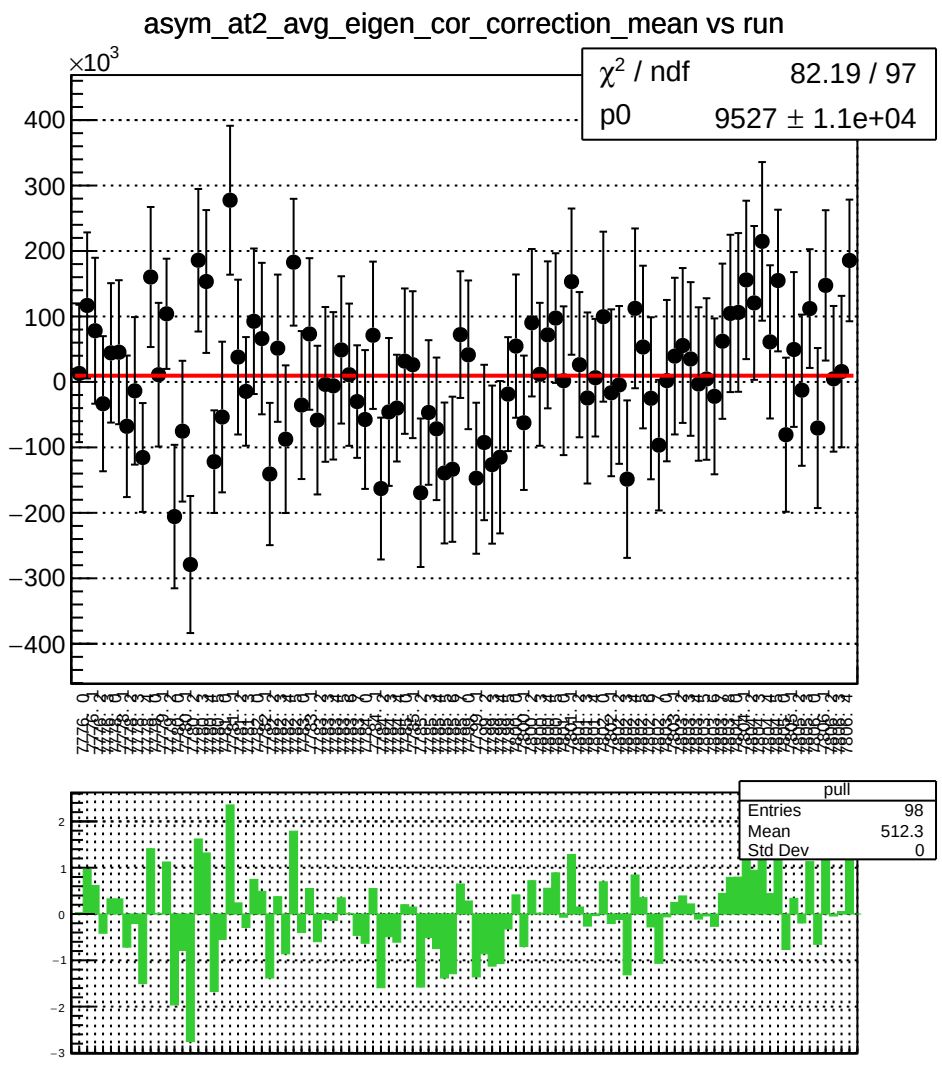

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.19 / 97
p0 9527 ± 1.1e+04
pull
Entries 98
Mean 512.3
Std Dev 0

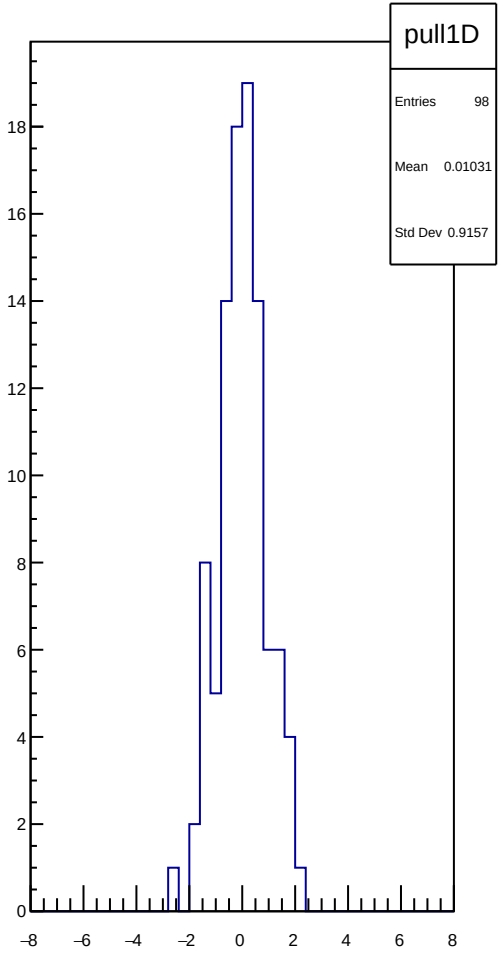

pull1D
Entries 98
Mean 0.01031
Std Dev 0.9157

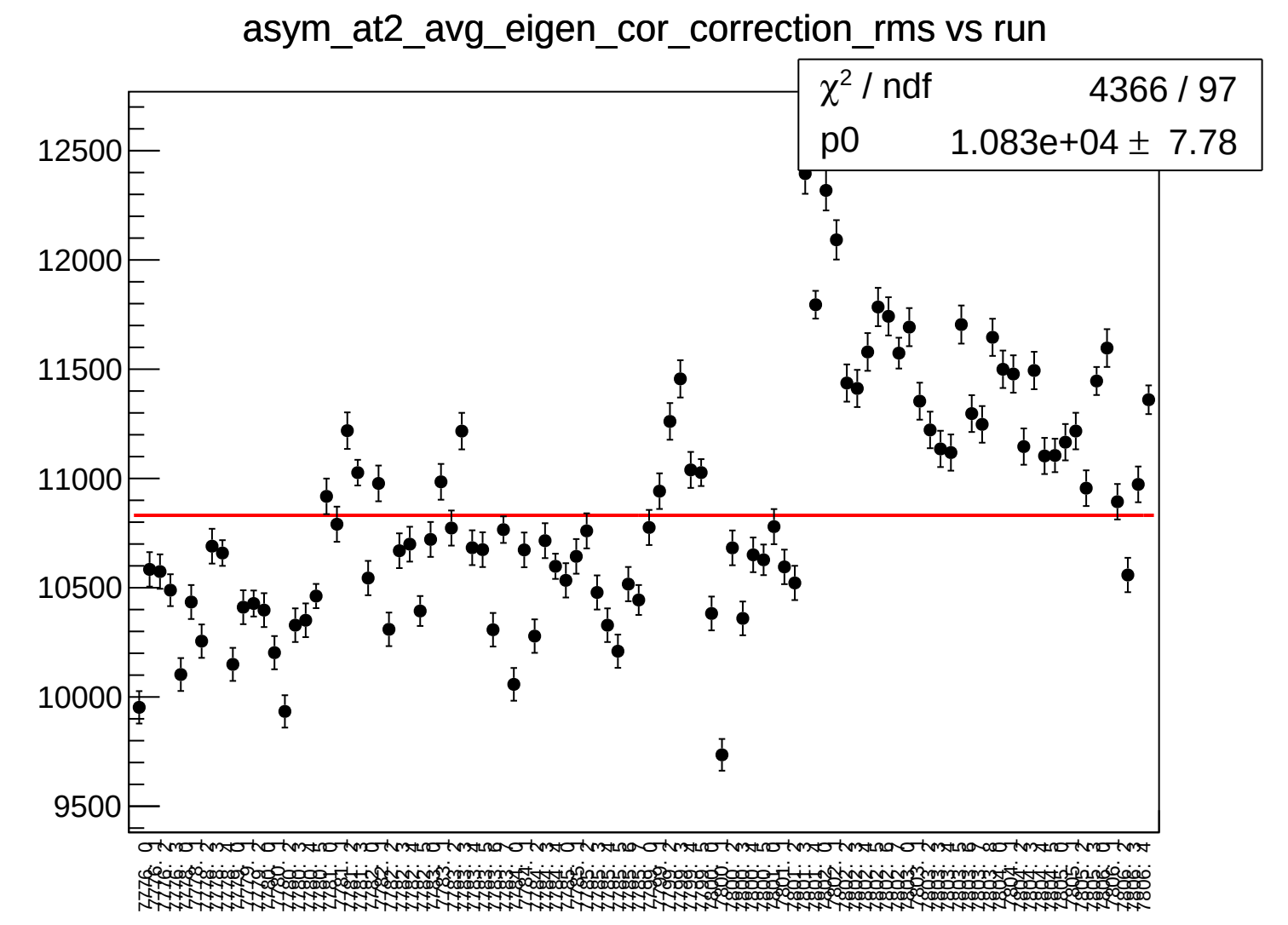

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 4366 / 97
p0 1.083e+04 ± 7.78
12500
12000
11500
11000
10500
10000
9500

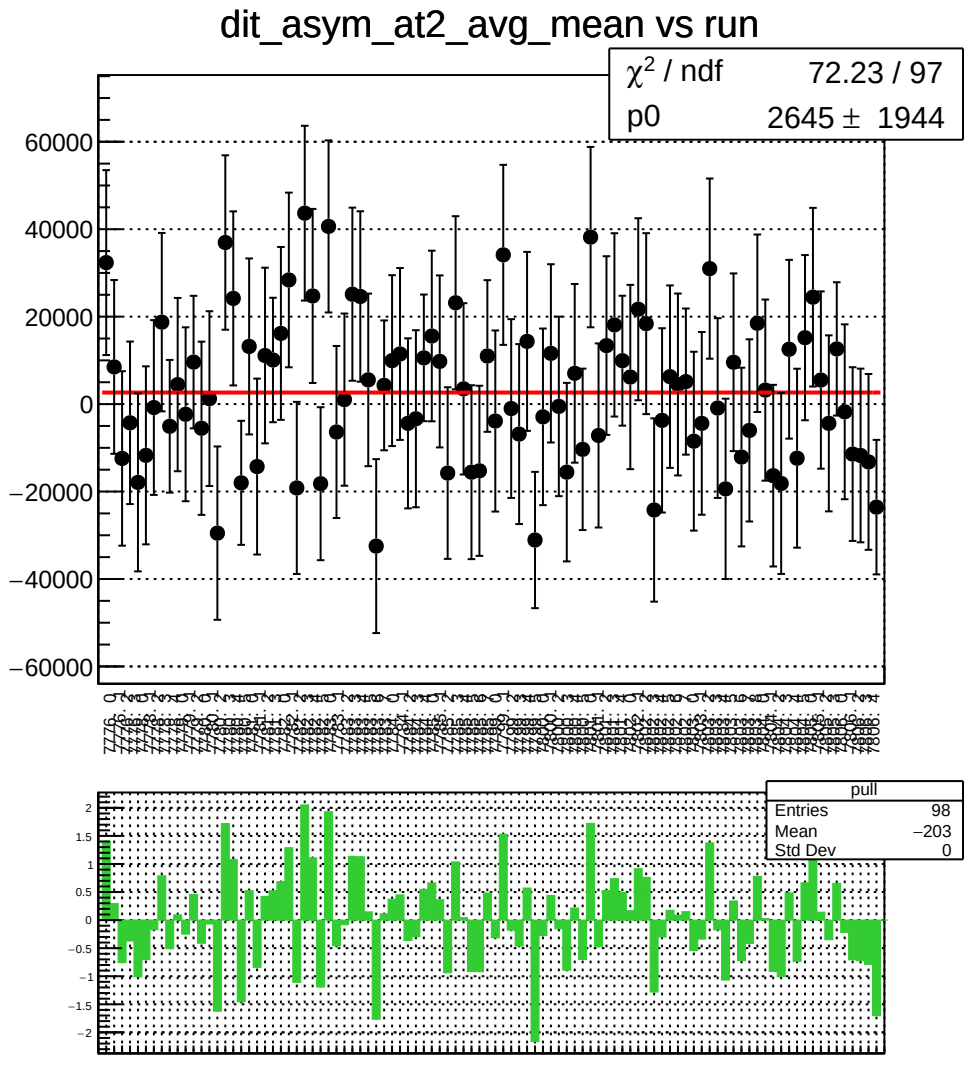

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 73.01 / 97
p0 2938 ± 1867
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −372.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.01106
Std Dev 0.8631
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

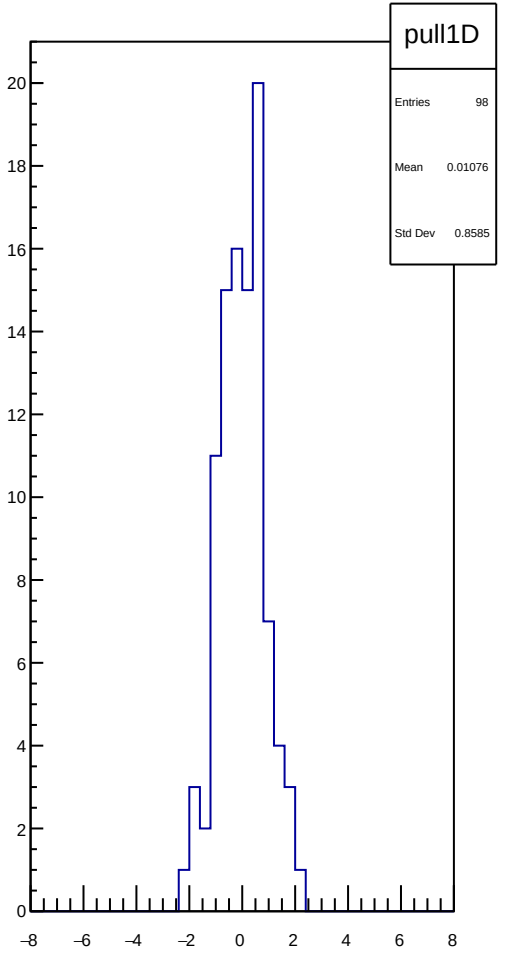

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 227.5 / 97
p0 1840 ± 1.32
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

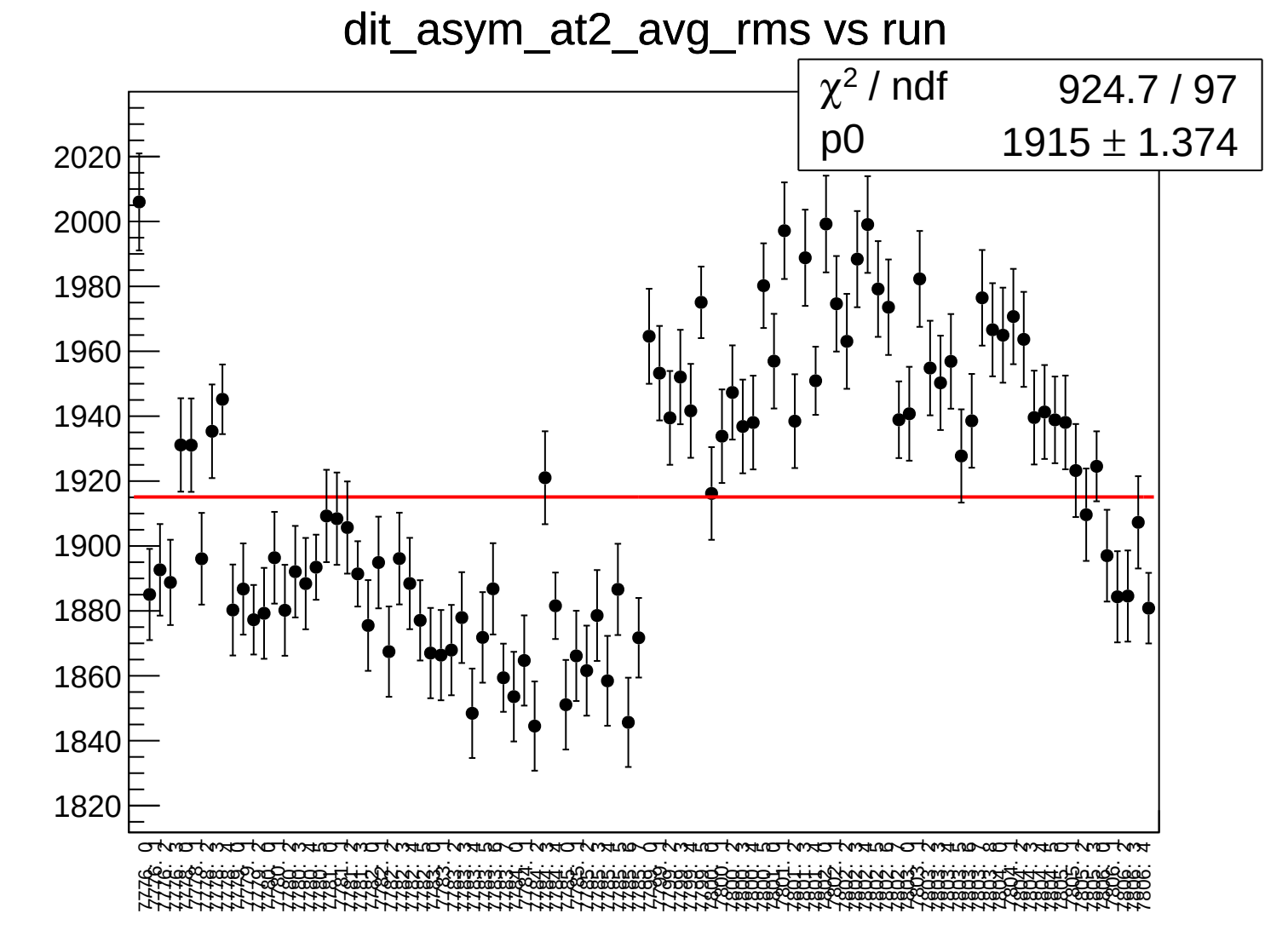

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.19 / 97
p0 9527 ± 1.1e+04
400
300
200
100
0
−100
−200
−300
−400
pull
Entries 98
Mean 512.3
Std Dev 0
2
1
0
−1
−2
−3

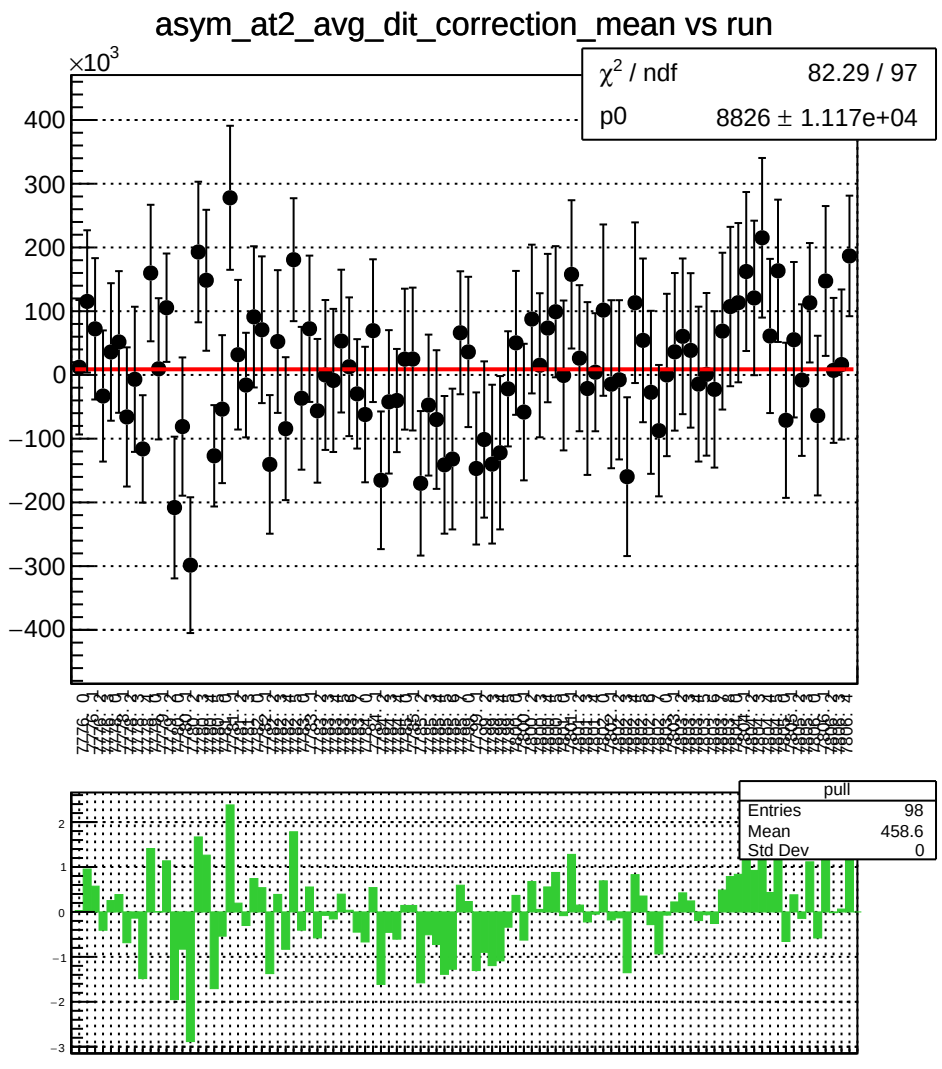

pull1D
Entries 98
Mean 0.01031
Std Dev 0.9157
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

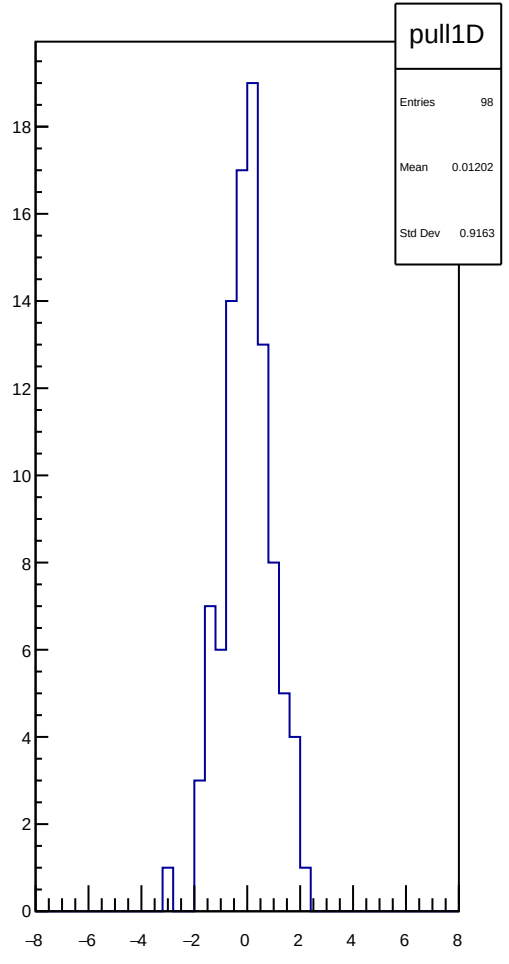

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4366 / 97
p0 1.083e+04 ± 7.78
12500
12000
11500
11000
10500
10000
9500

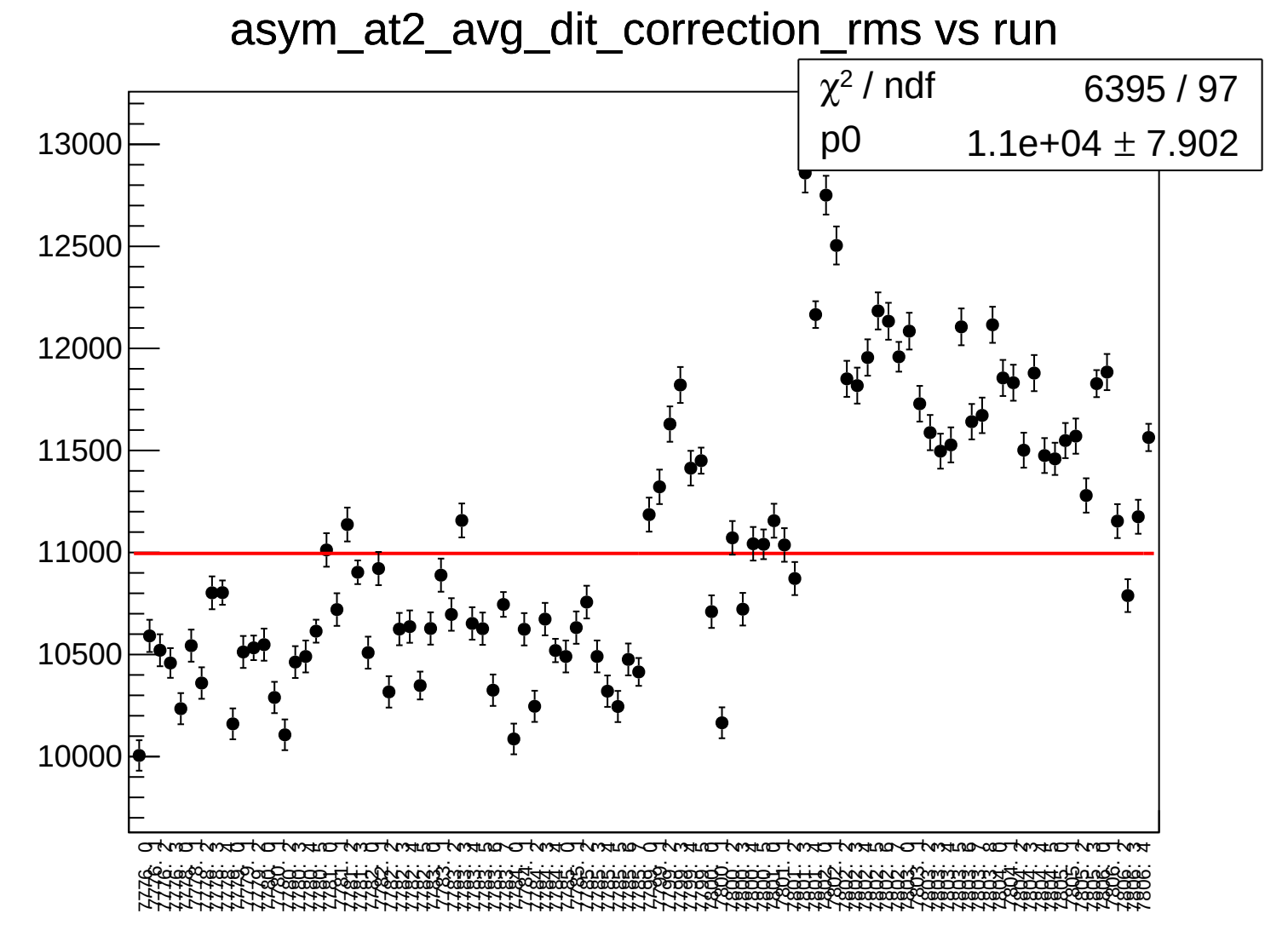

dit_asym_at2_avg_mean vs run
χ² / ndf 72.23 / 97
p0 2645 ± 1944
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −203
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

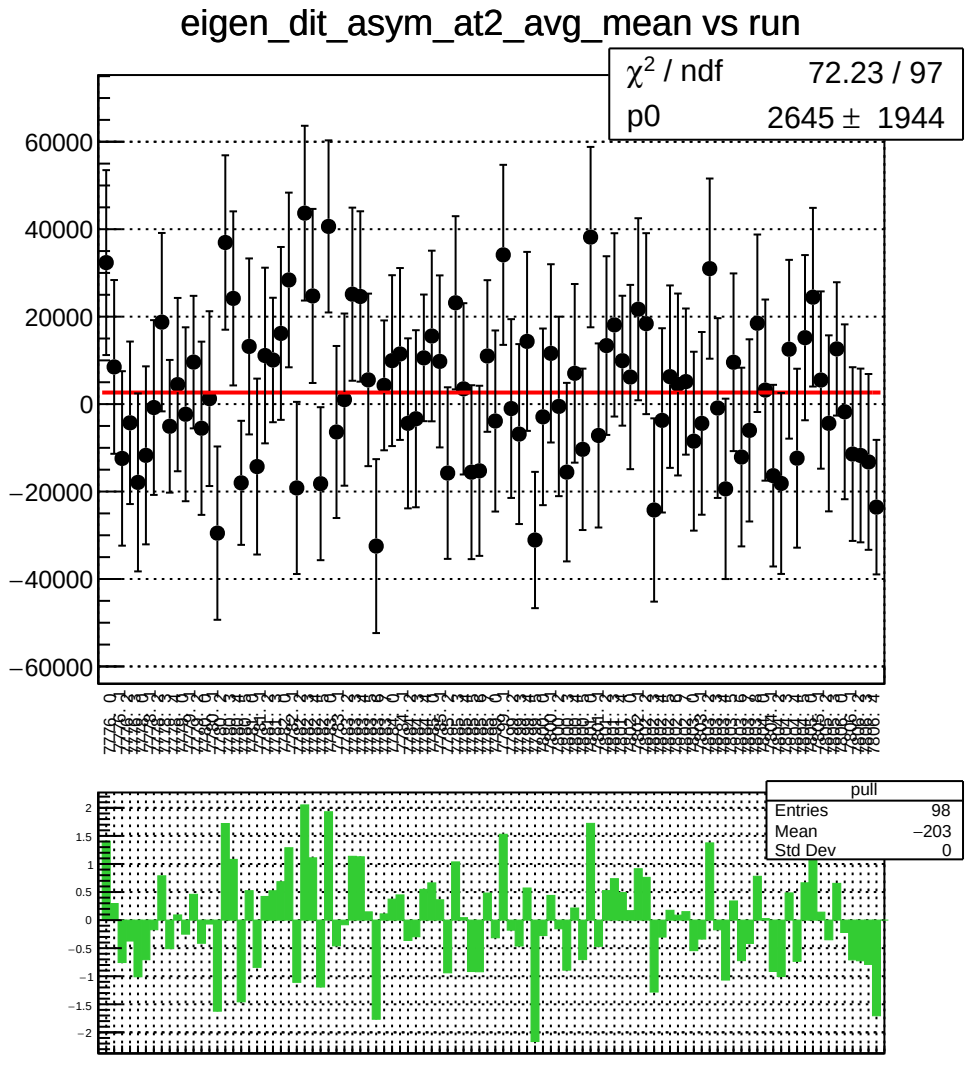

pull1D
Entries 98
Mean 0.01076
Std Dev 0.8585
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

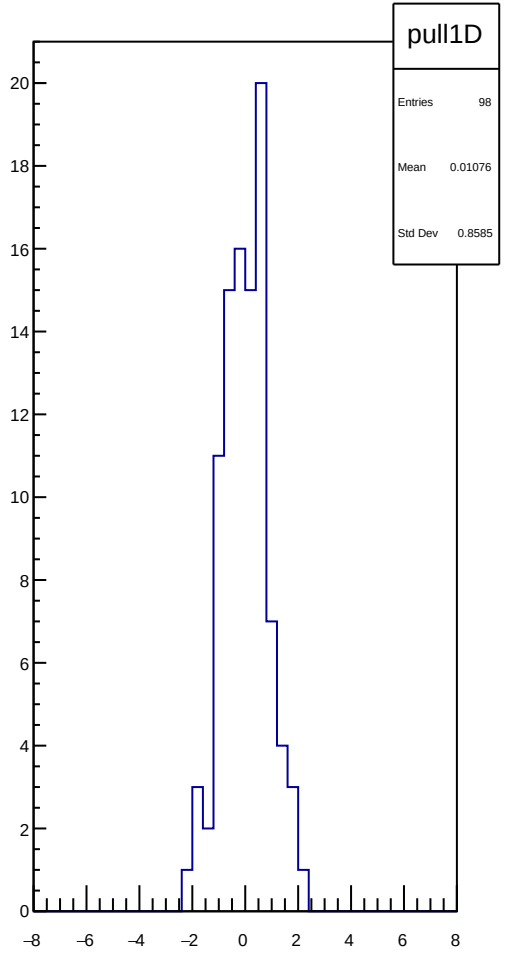

dit_asym_at2_avg_rms vs run
χ² / ndf 924.7 / 97
p0 1915 ± 1.374
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

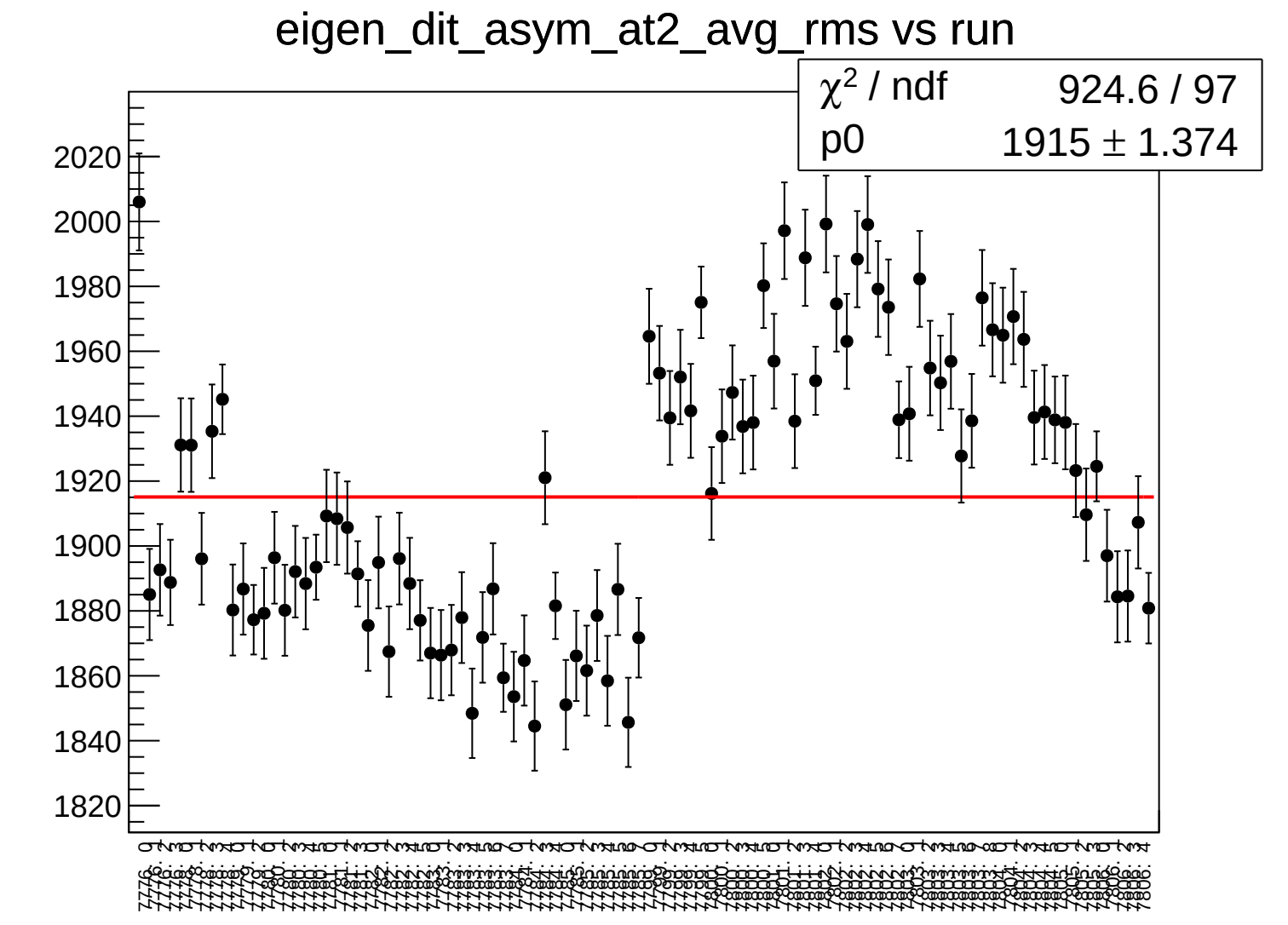

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.29 / 97
p0 8826 ± 1.117e+04
pull
Entries 98
Mean 458.6
Std Dev 0

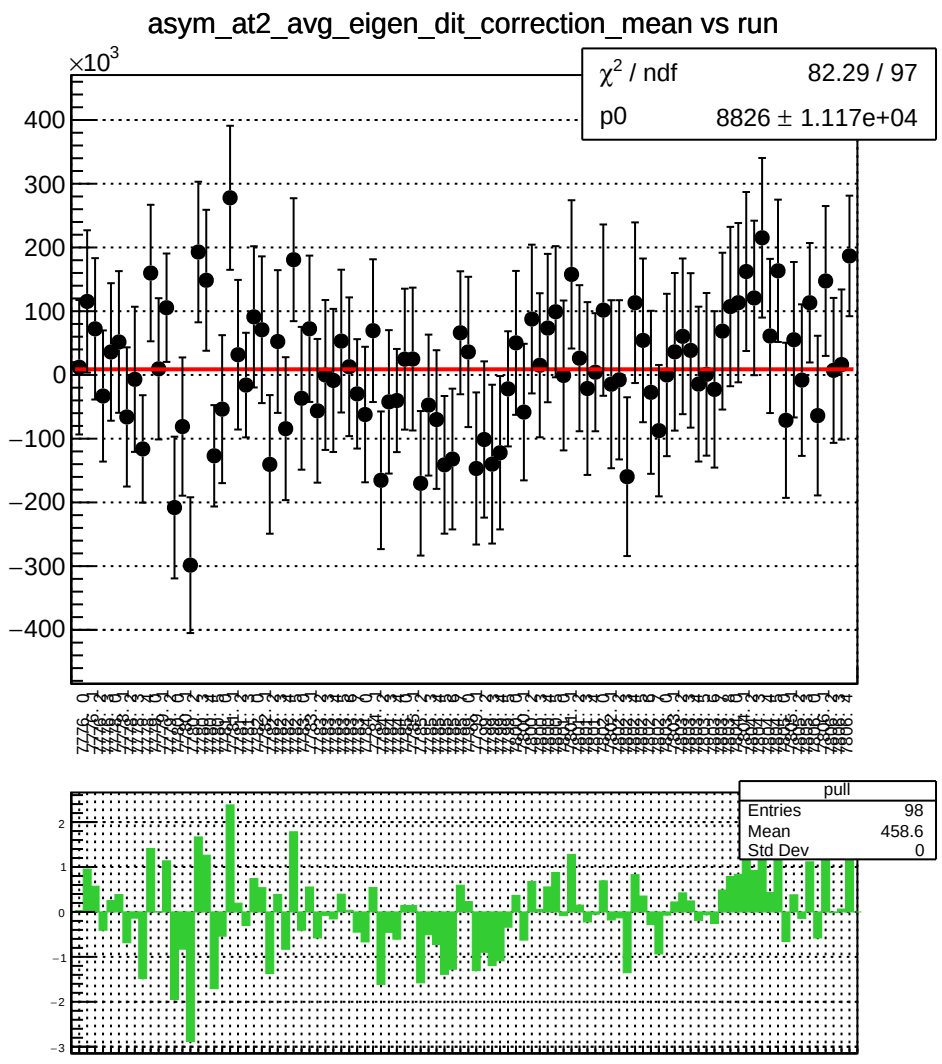

pull1D
Entries 98
Mean 0.01202
Std Dev 0.9163

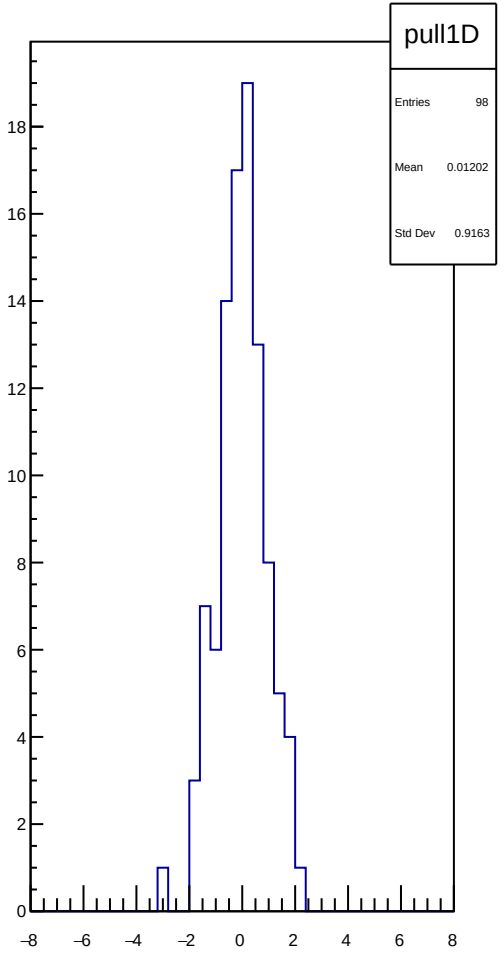

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 6395 / 97
p0 1.1e+04 ± 7.902
13000
12500
12000
11500
11000
10500
10000

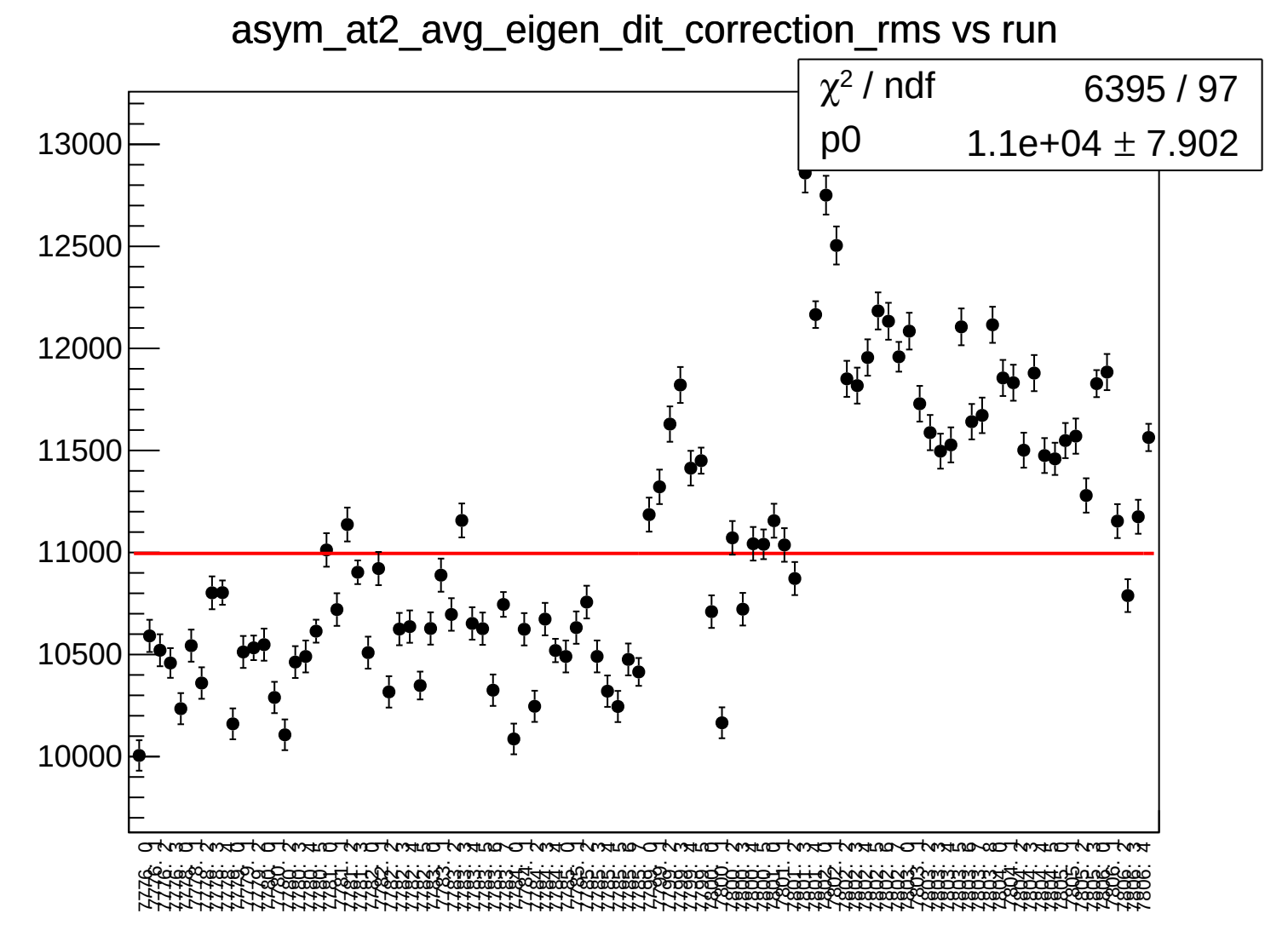

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 72.23 / 97
p0 2645 ± 1944
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −203
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

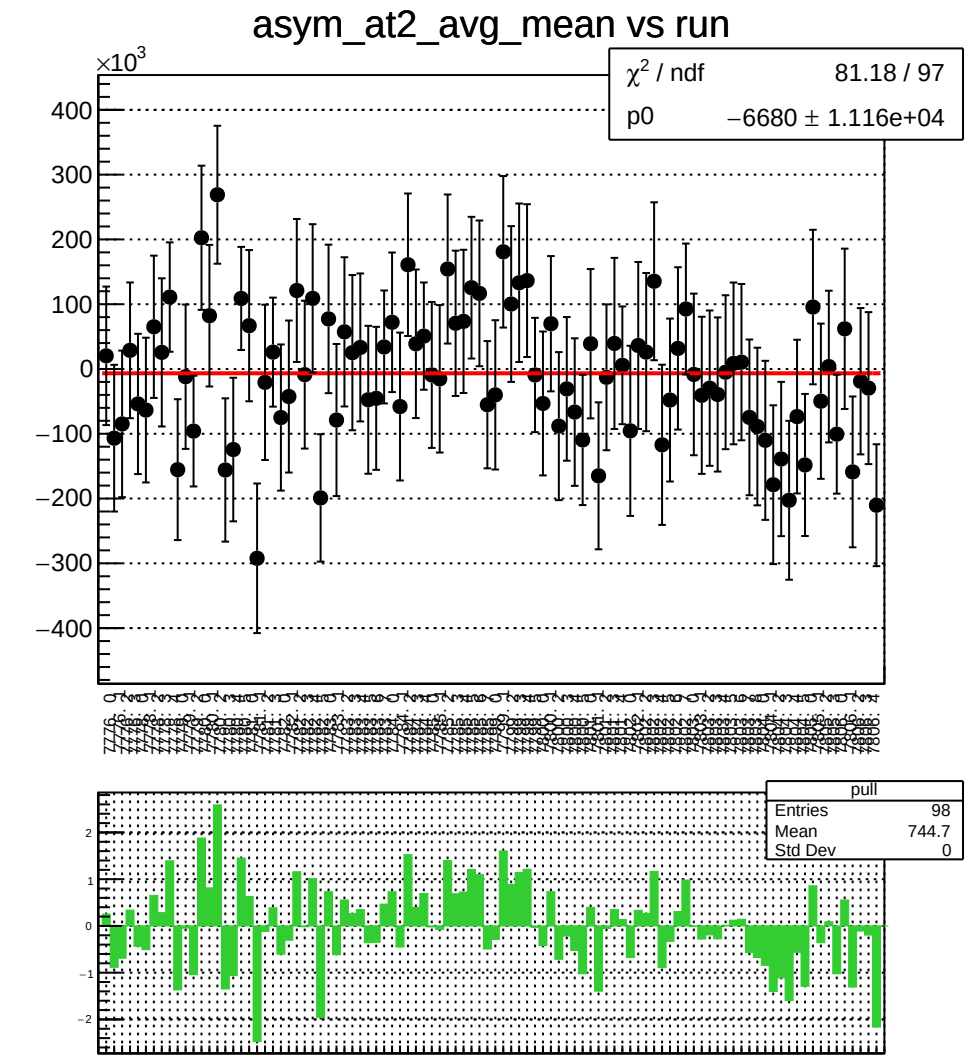

pull1D
Entries 98
Mean 0.01076
Std Dev 0.8585
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

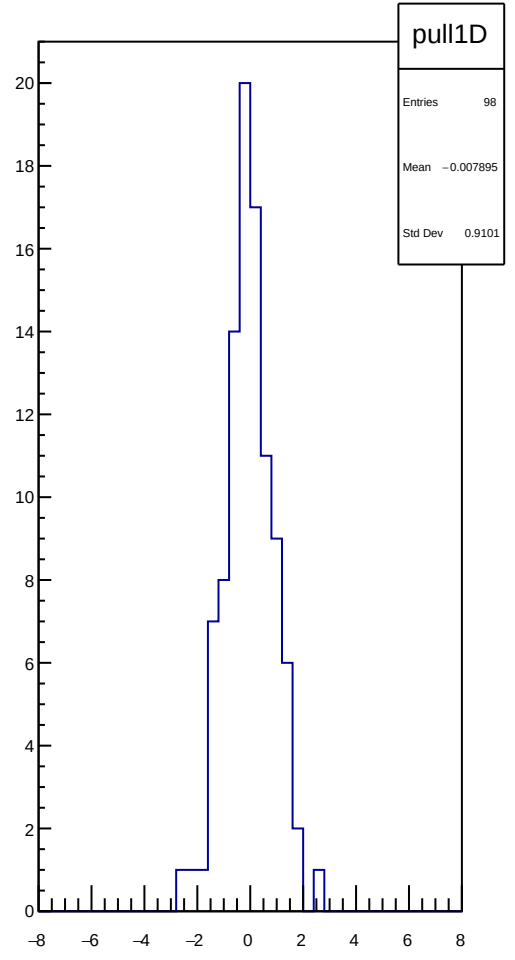

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 924.6 / 97
p0 1915 ± 1.374
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

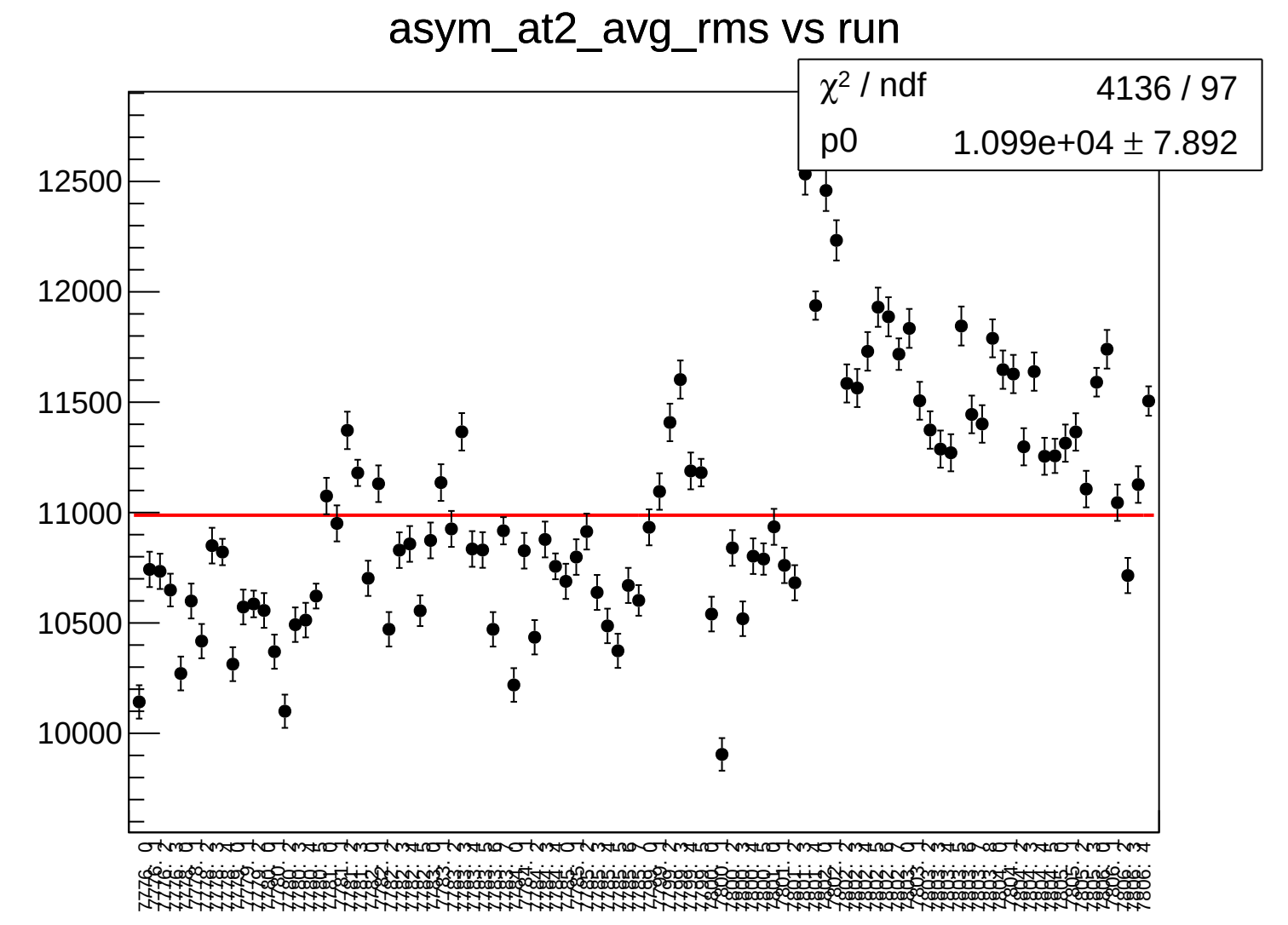

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.29 / 97
p0 8826 ± 1.117e+04
400
300
200
100
0
−100
−200
−300
−400
pull
Entries 98
Mean 458.6
Std Dev 0
2
1
0
−1
−2
−3

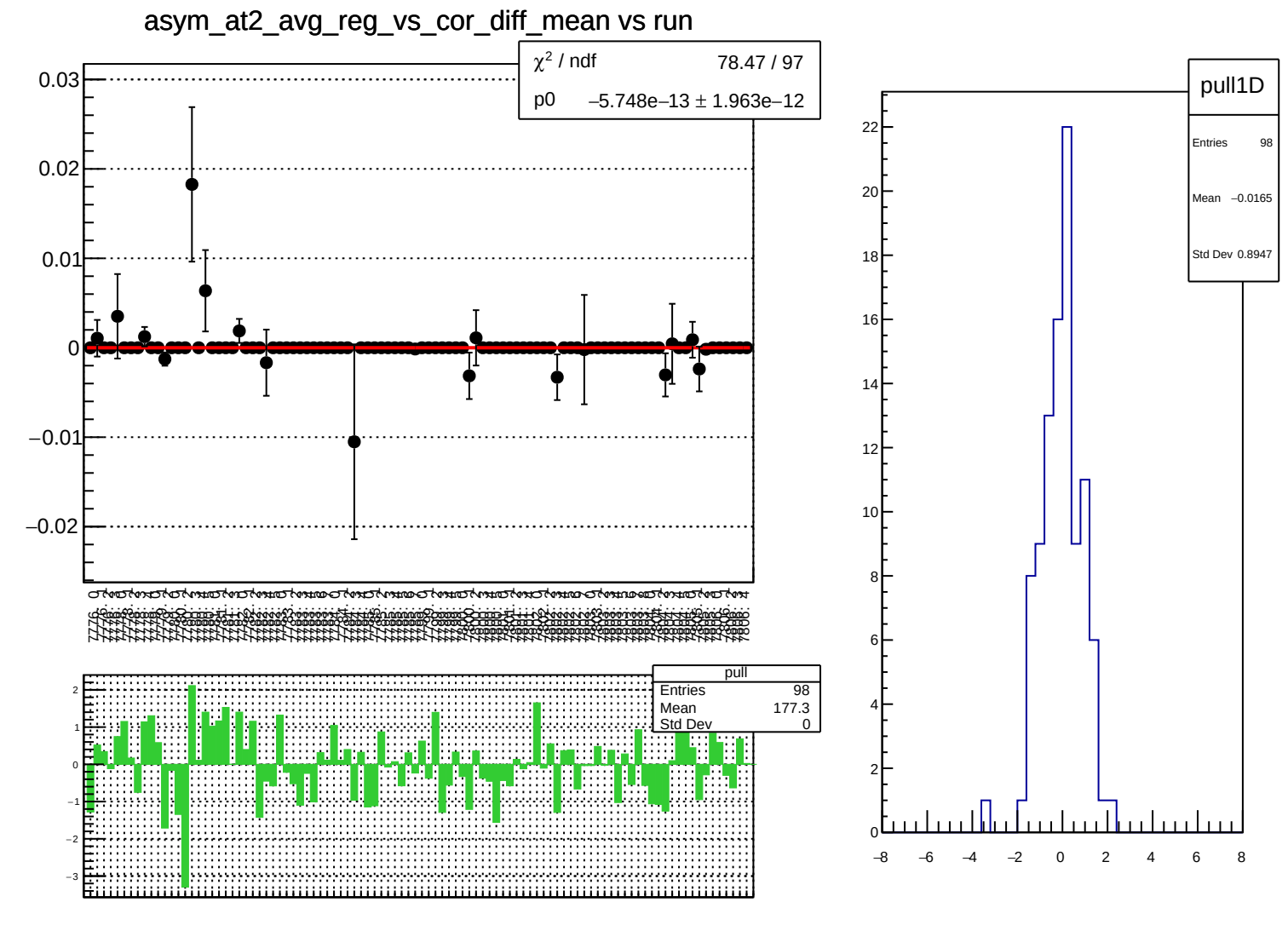

pull1D
Entries 98
Mean 0.01202
Std Dev 0.9163
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

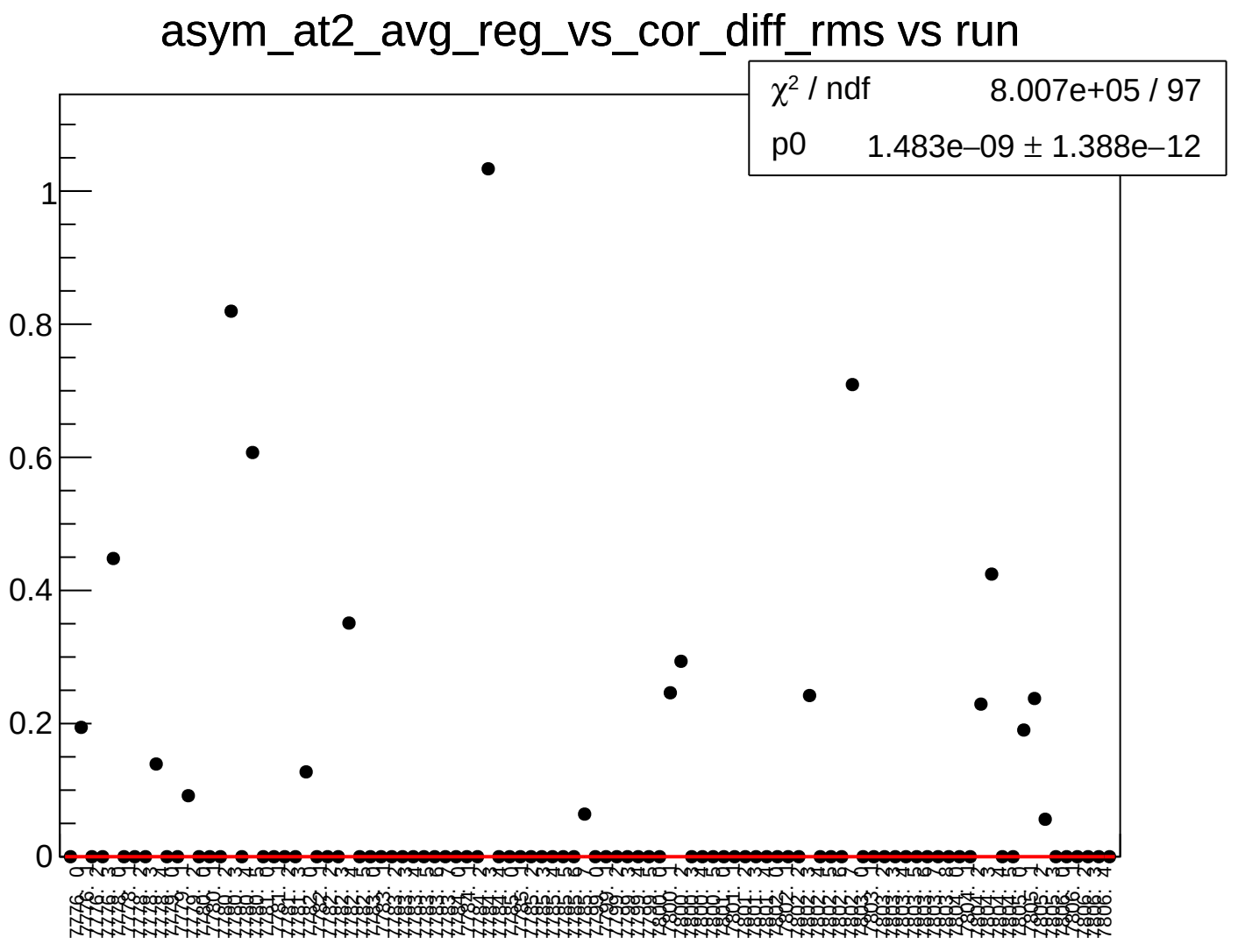

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6395 / 97
p0 1.1e+04 ± 7.902
13000
12500
12000
11500
11000
10500
10000

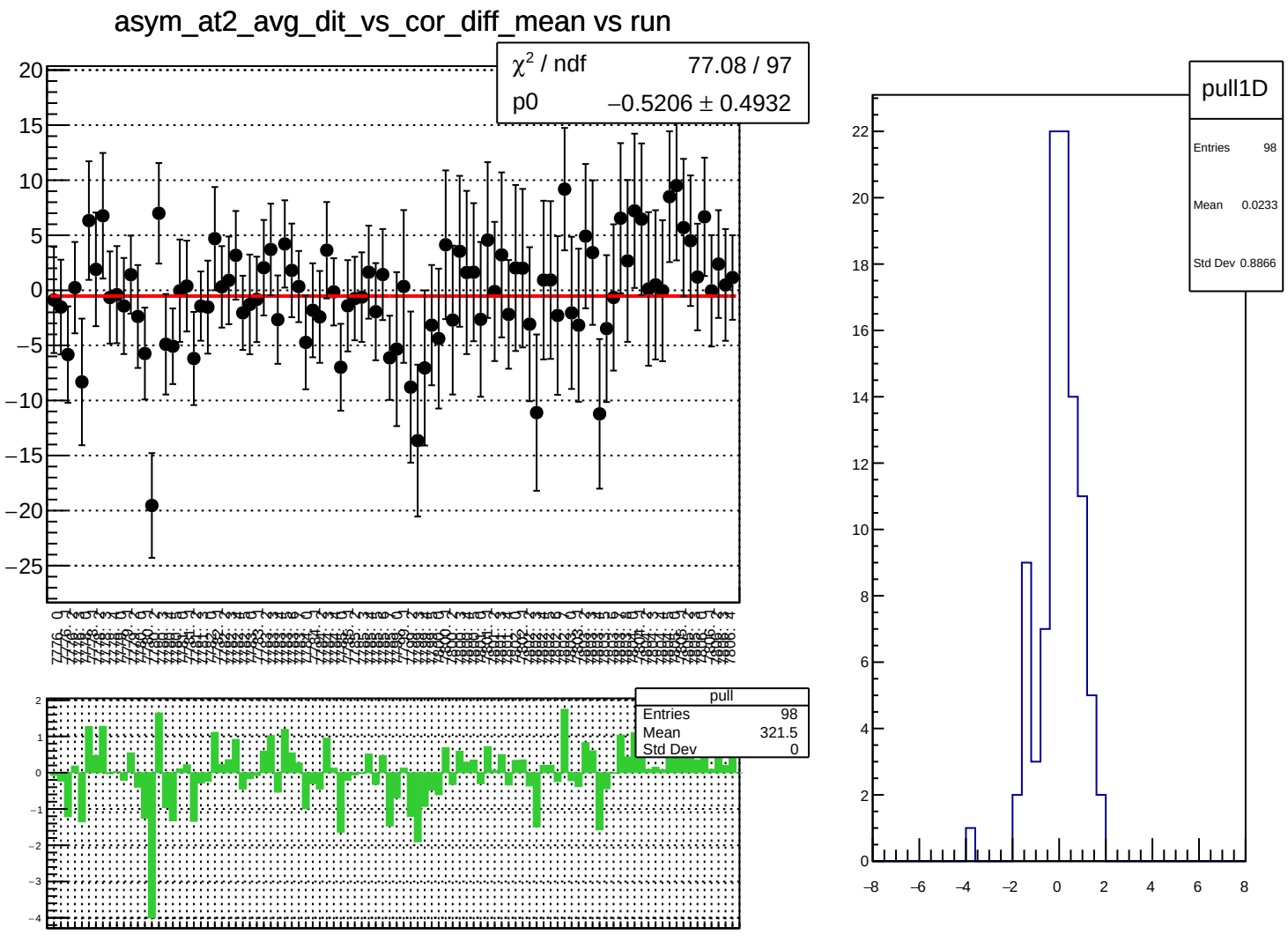

asym_at2_avg_mean vs run
×10^3
χ² / ndf 81.18 / 97
p0 −6680 ± 1.116e+04
pull
Entries 98
Mean 744.7
Std Dev 0

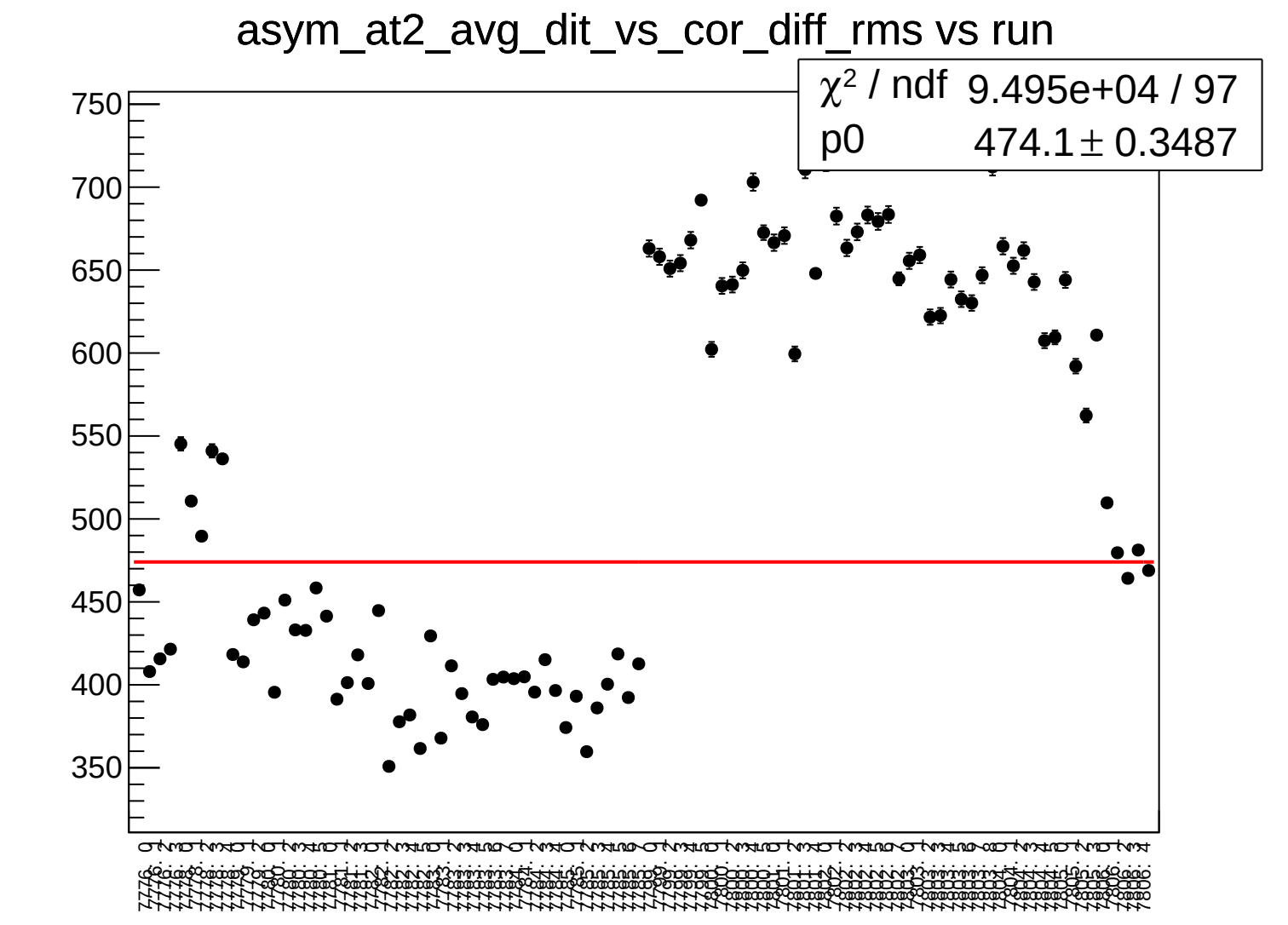

pull1D
Entries 98
Mean −0.007895
Std Dev 0.9101

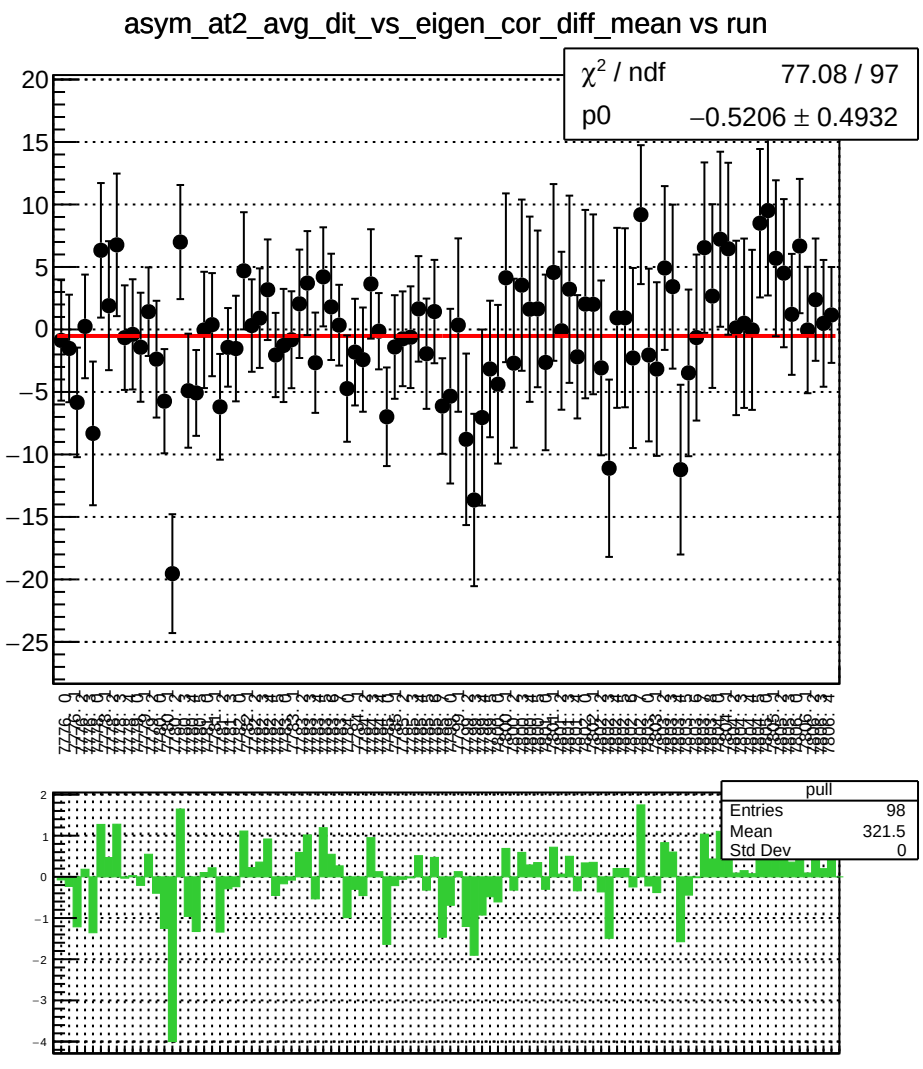

asym_at2_avg_rms vs run
χ² / ndf 4136 / 97
p0 1.099e+04 ± 7.892
12500
12000
11500
11000
10500
10000

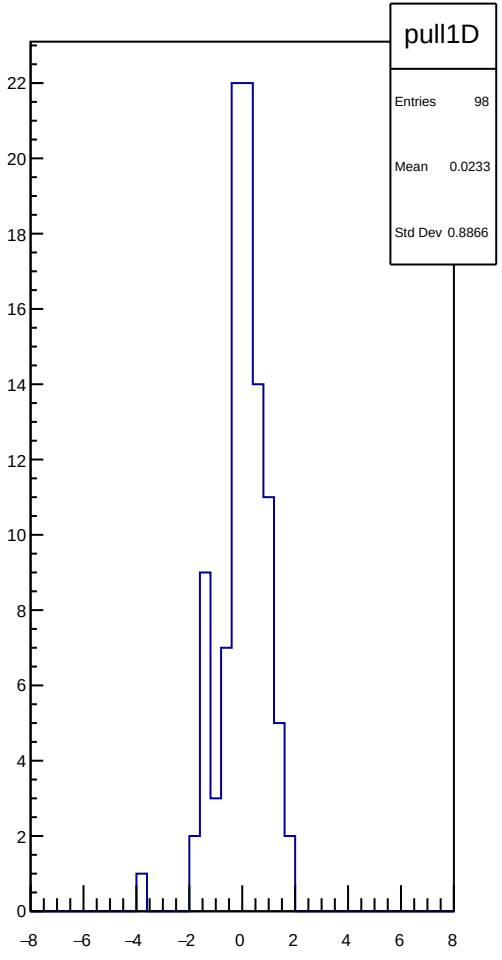

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.47 / 97
p0 −5.748e−13 ± 1.963e−12
pull
Entries 98
Mean 177.3
Std Dev 0
pull1D
Entries 98
Mean −0.0165
Std Dev 0.8947

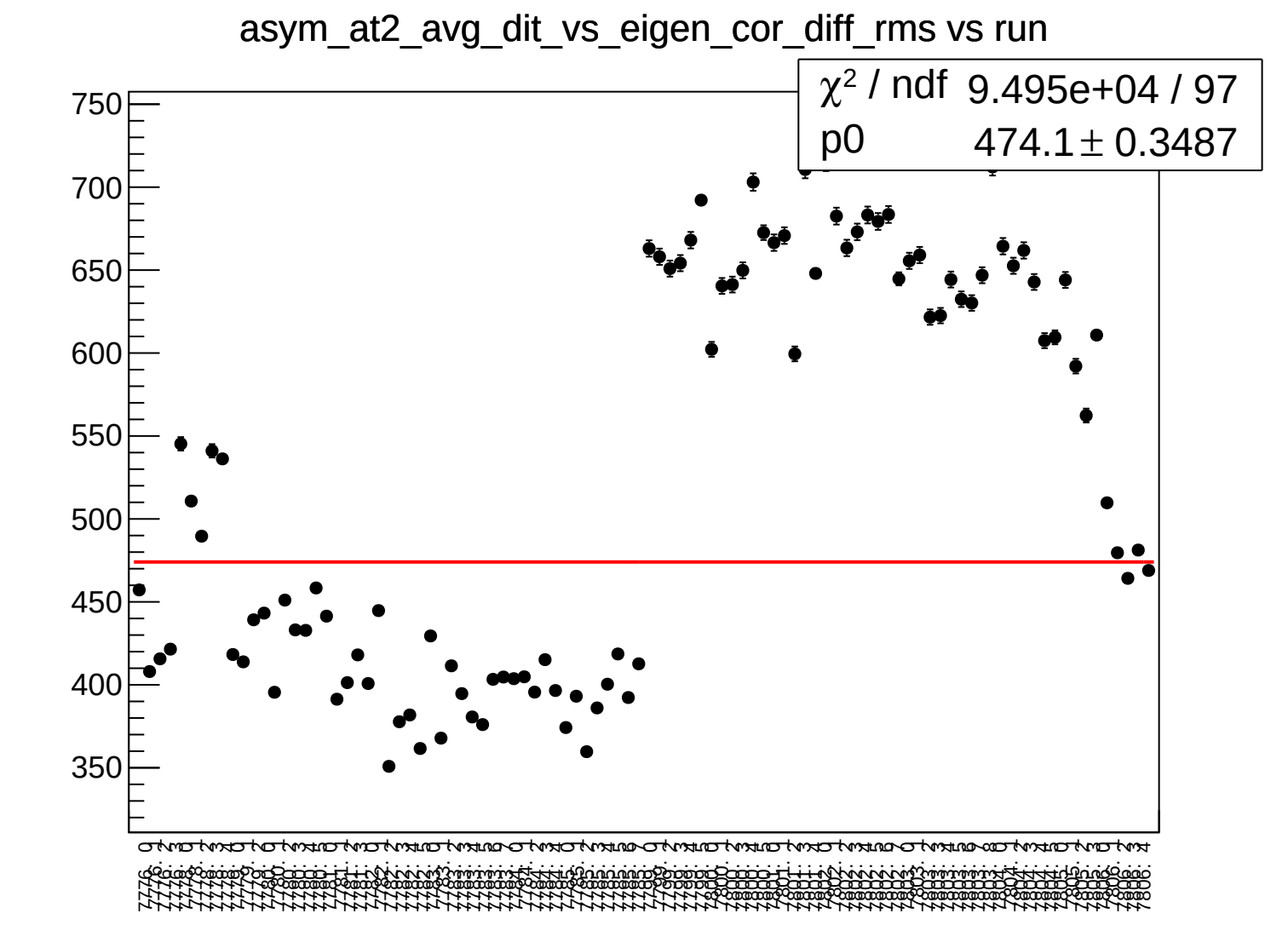

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.007e+05 / 97
p0 1.483e−09 ± 1.388e−12
1
0.8
0.6
0.4
0.2
0

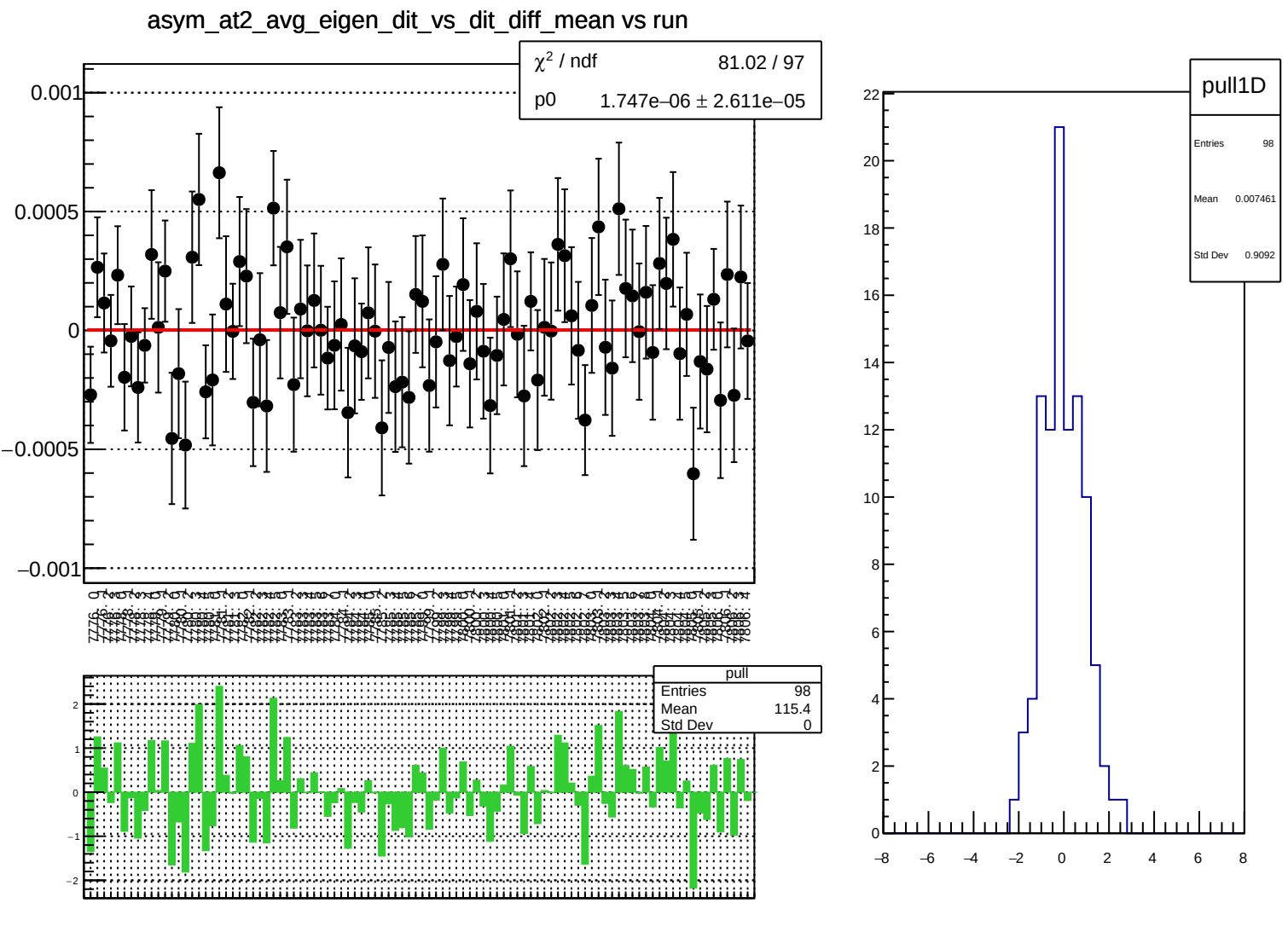

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.08 / 97
p0 −0.5206 ± 0.4932
pull
Entries 98
Mean 321.5
Std Dev 0
pull1D
Entries 98
Mean 0.0233
Std Dev 0.8866

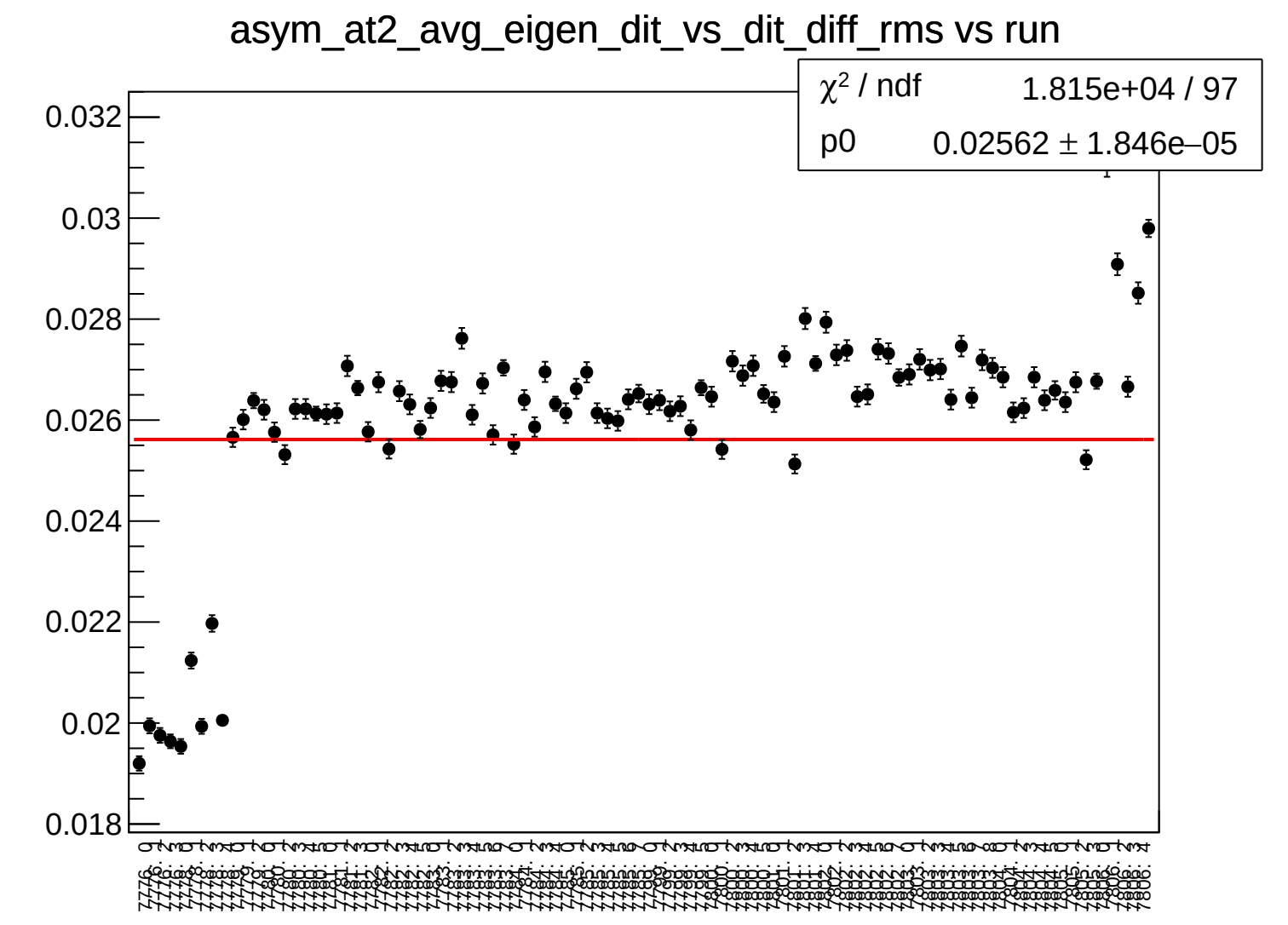

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.495e+04 / 97
p0 474.1 ± 0.3487
750
700
650
600
550
500
450
400
350

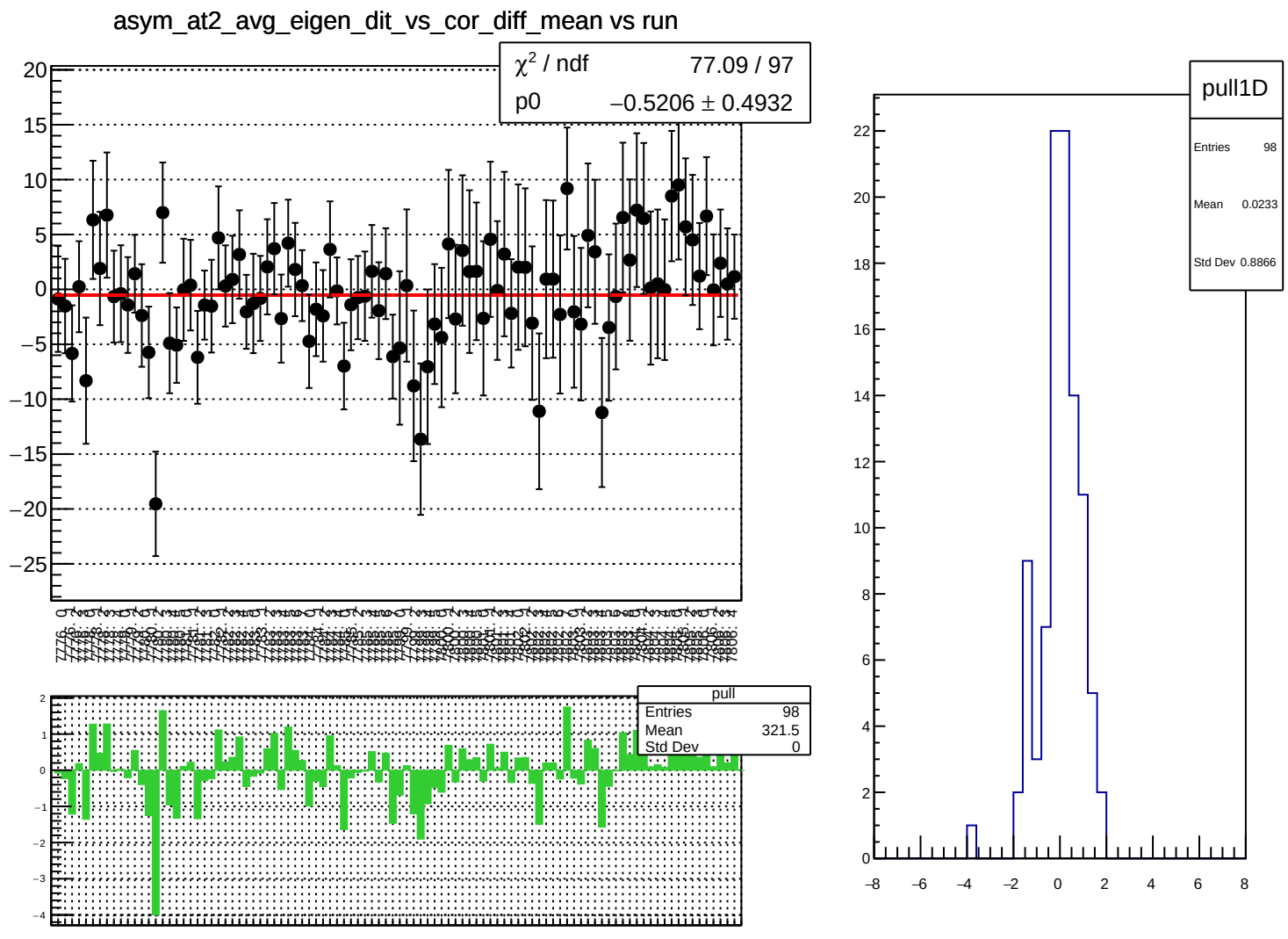

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.08 / 97
p0 −0.5206 ± 0.4932
pull
Entries 98
Mean 321.5
Std Dev 0

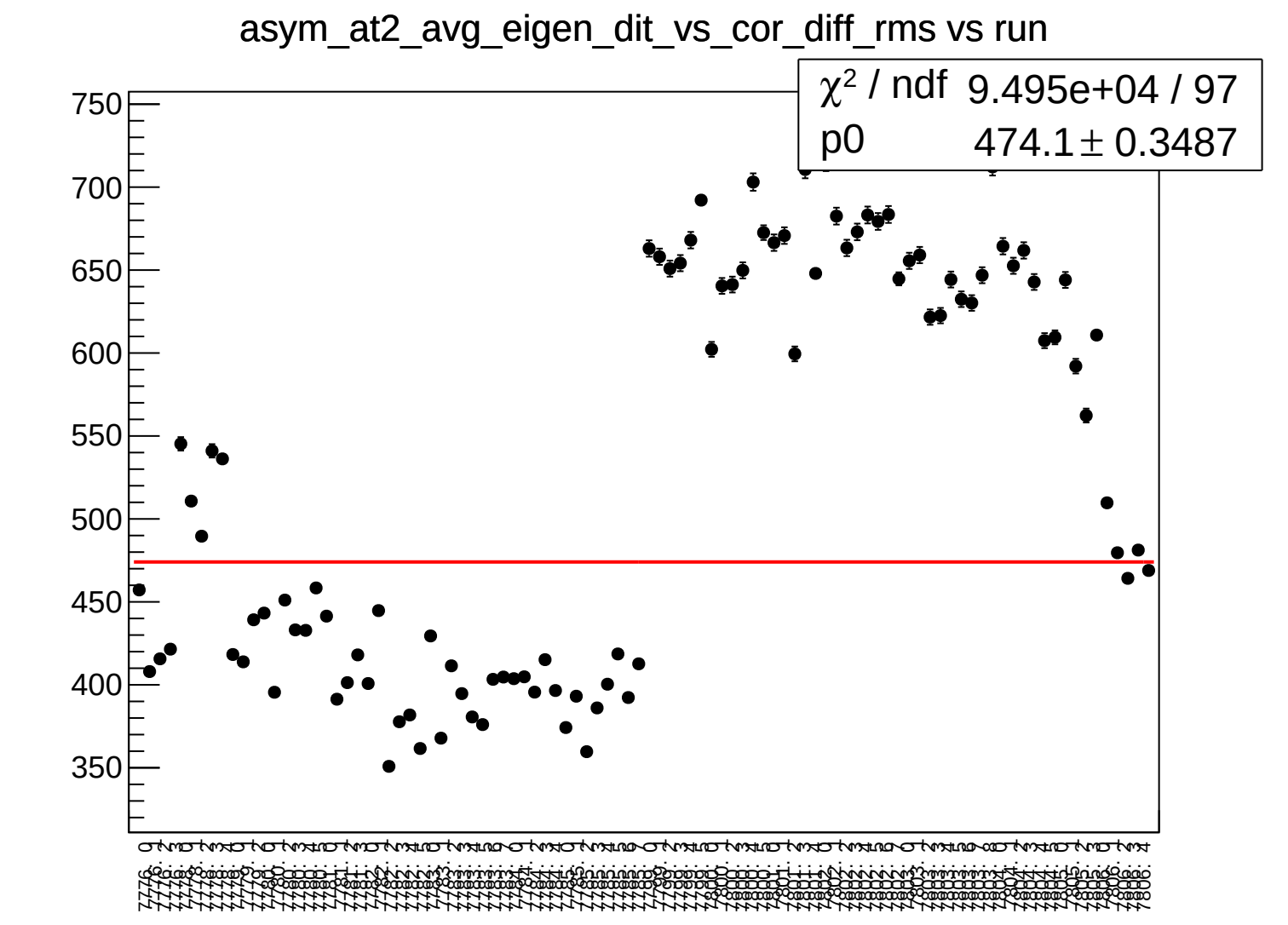

pull1D
Entries 98
Mean 0.0233
Std Dev 0.8866

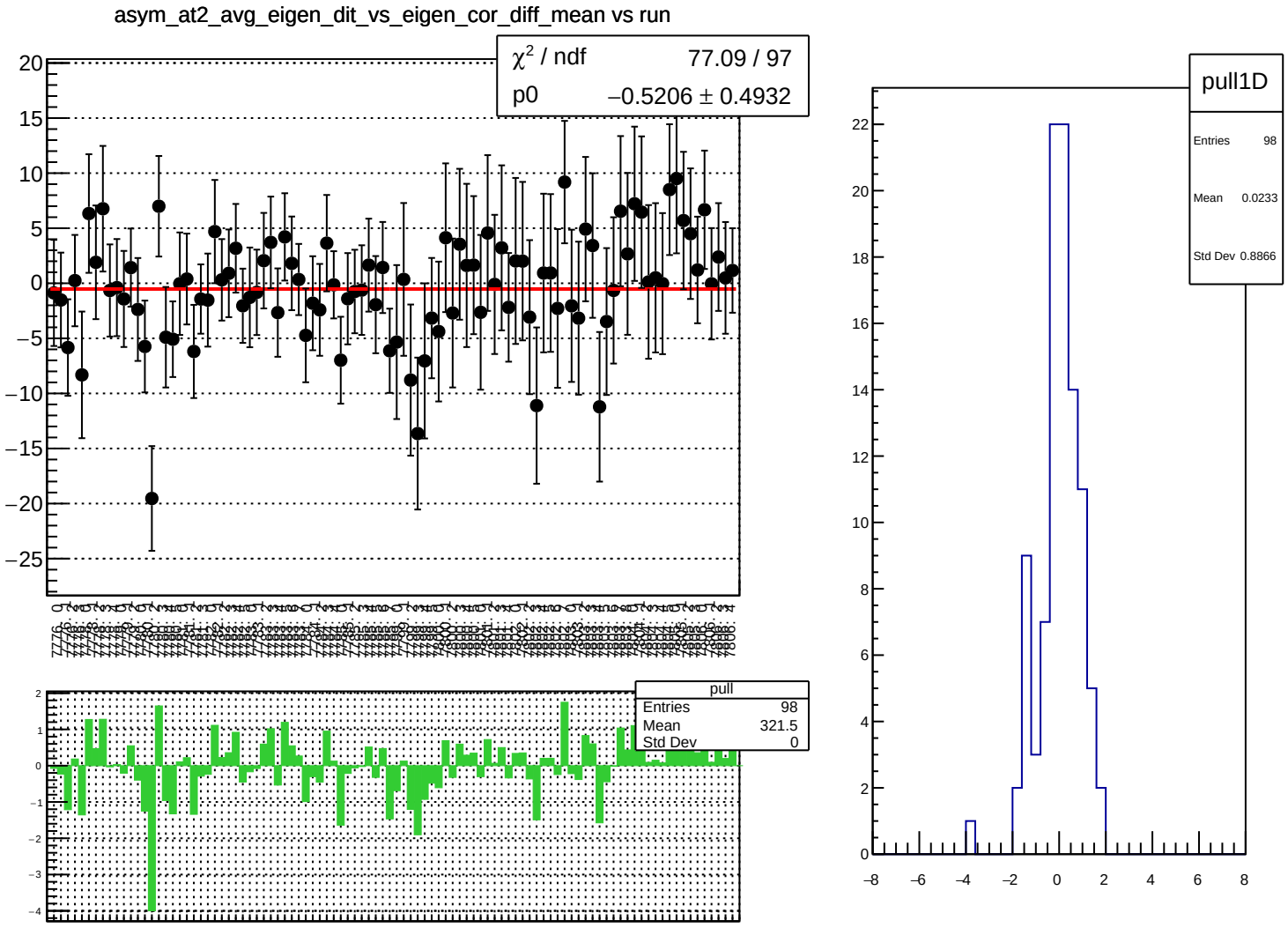

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.495e+04 / 97
p0 474.1 ± 0.3487
750
700
650
600
550
500
450
400
350

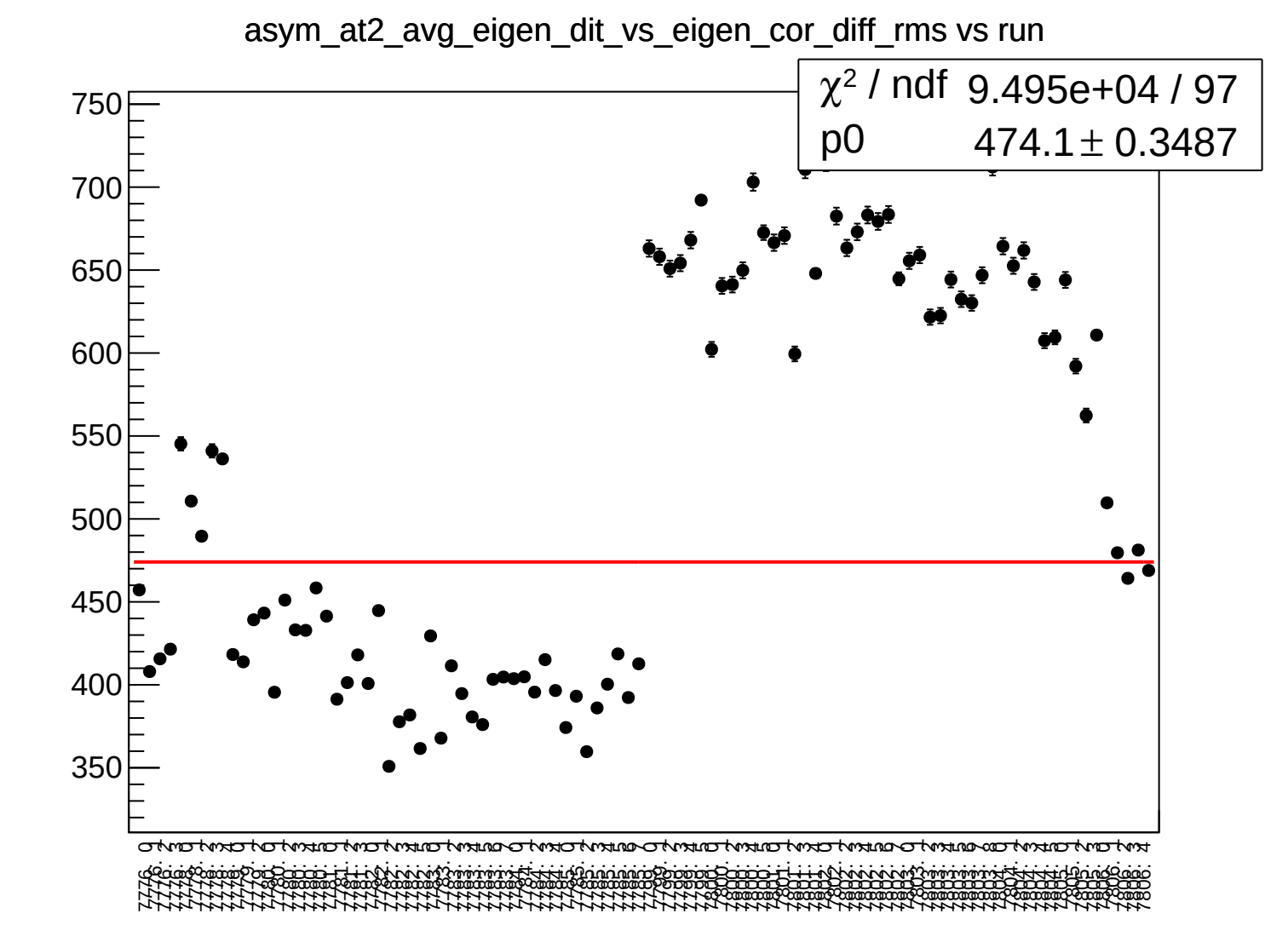

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 81.02 / 97
p0 1.747e−06 ± 2.611e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 98
Mean 115.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.007461
Std Dev 0.9092
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

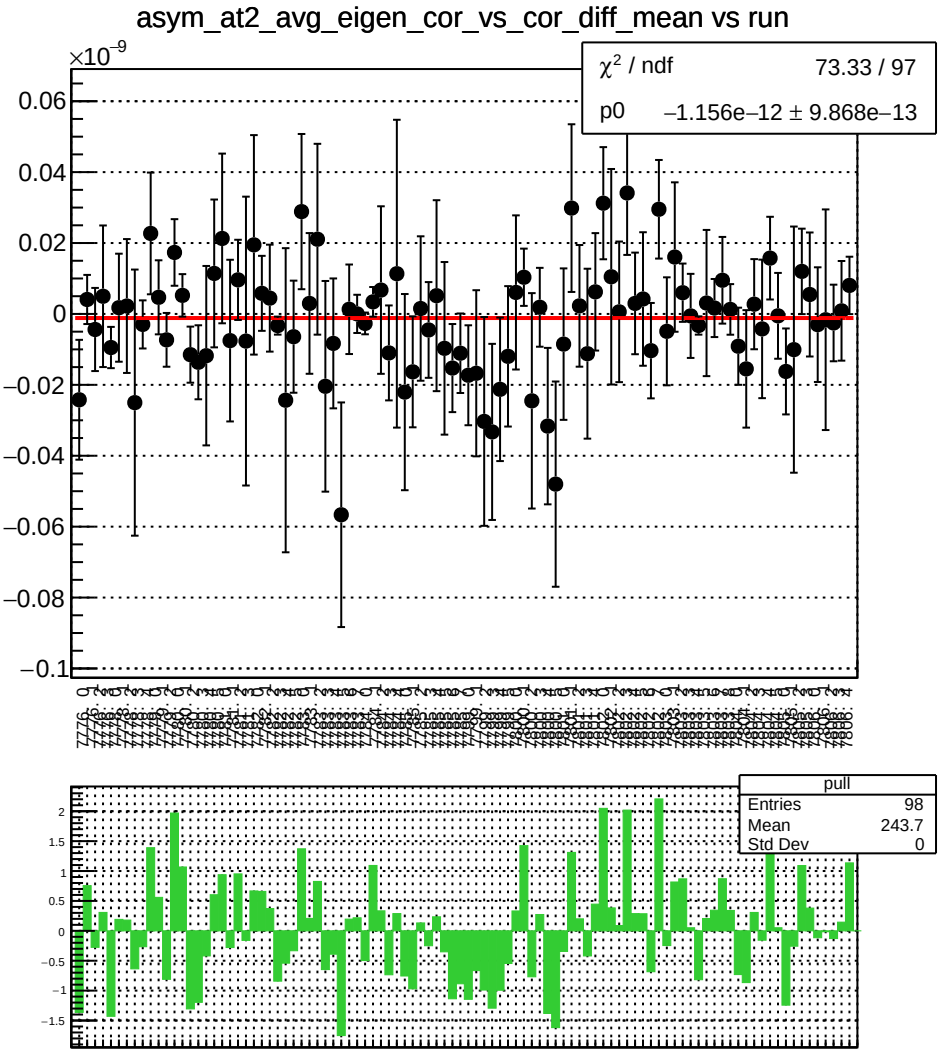

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.815e+04 / 97
p0 0.02562 ± 1.846e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018

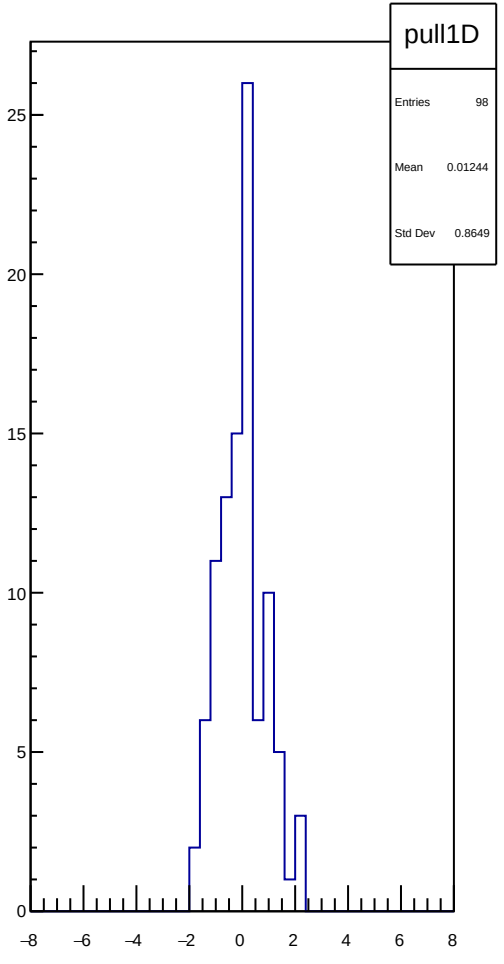

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.09 / 97
p0 −0.5206 ± 0.4932
pull
Entries 98
Mean 321.5
Std Dev 0
pull1D
Entries 98
Mean 0.0233
Std Dev 0.8866

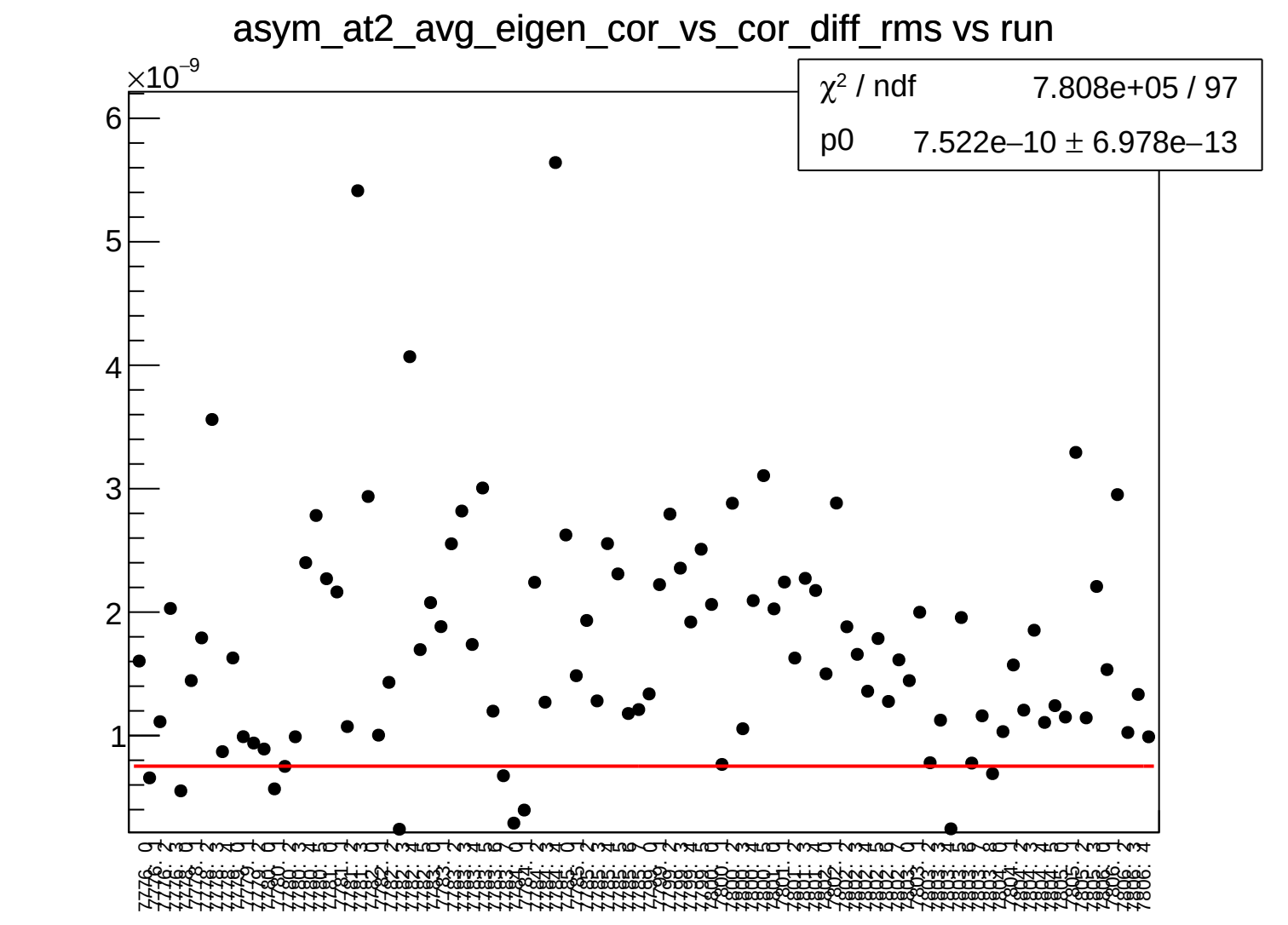

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.495e+04 / 97
p0 474.1 ± 0.3487
750
700
650
600
550
500
450
400
350

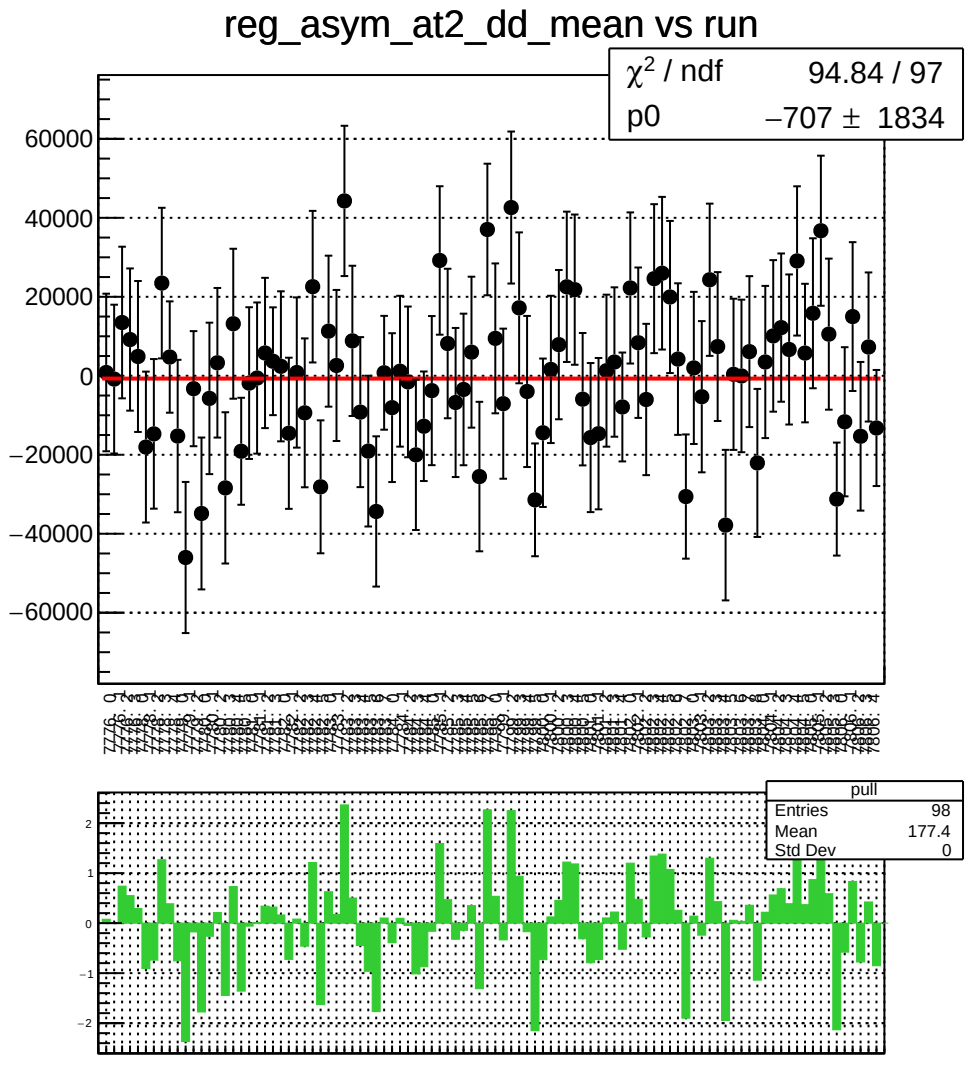

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.09 / 97
p0 −0.5206 ± 0.4932
pull
Entries 98
Mean 321.5
Std Dev 0
pull1D
Entries 98
Mean 0.0233
Std Dev 0.8866

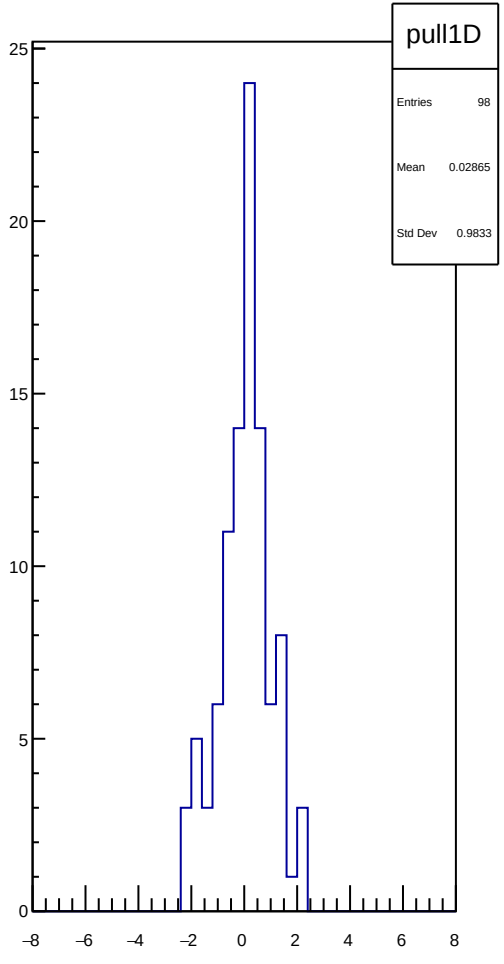

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.495e+04 / 97
p0 474.1 ± 0.3487
750
700
650
600
550
500
450
400
350

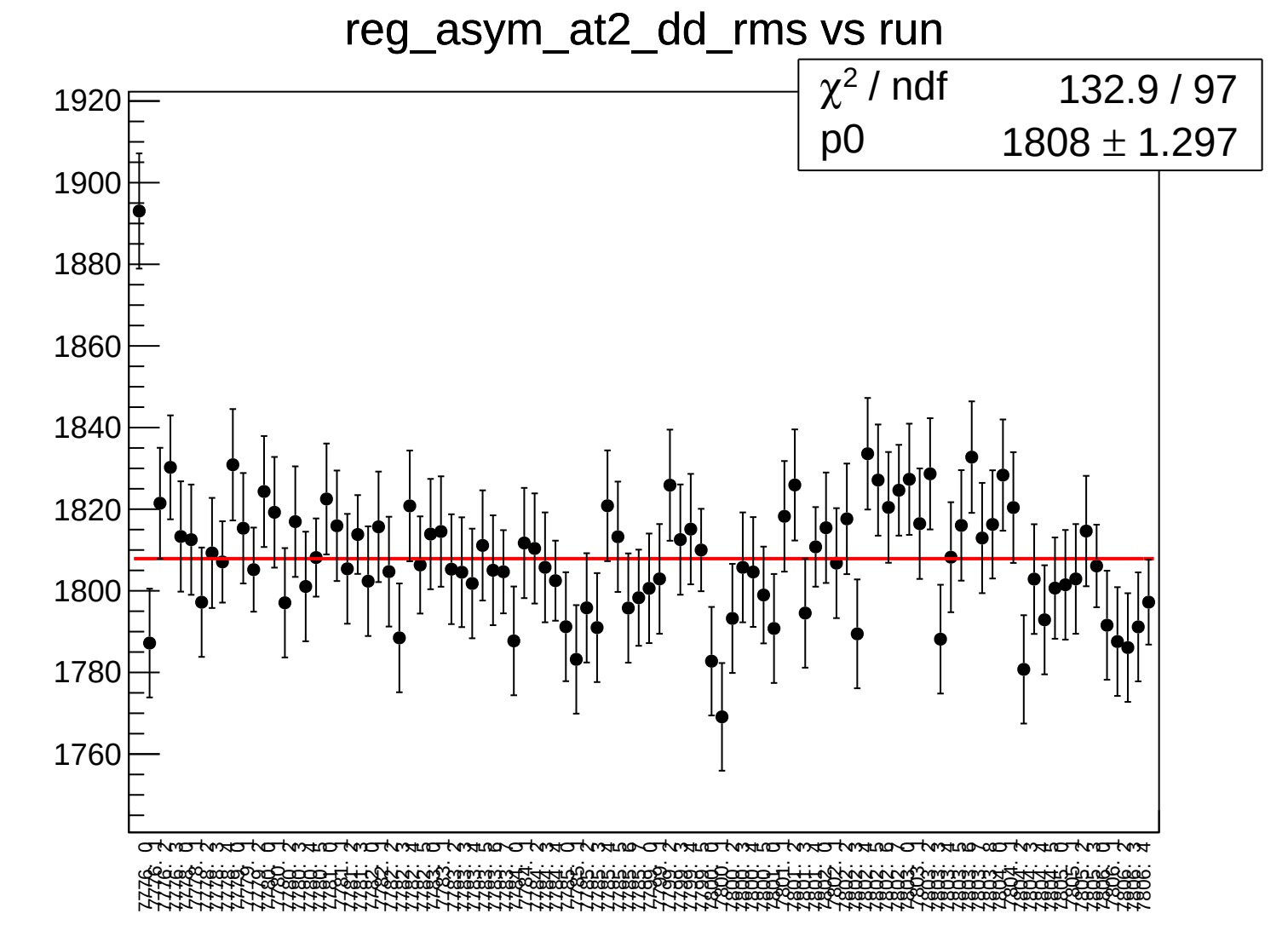

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 73.33 / 97
p0 −1.156e−12 ± 9.868e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 98
Mean 243.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

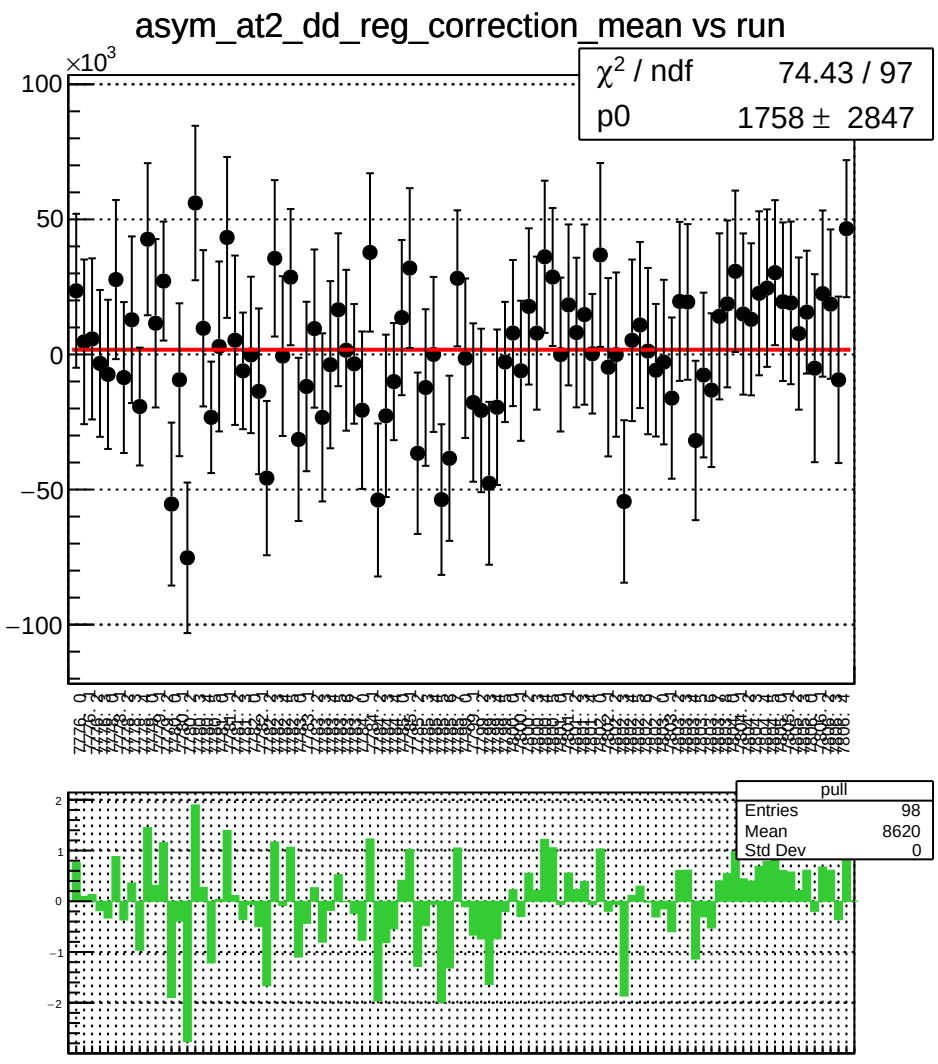

pull1D
Entries 98
Mean 0.01244
Std Dev 0.8649
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

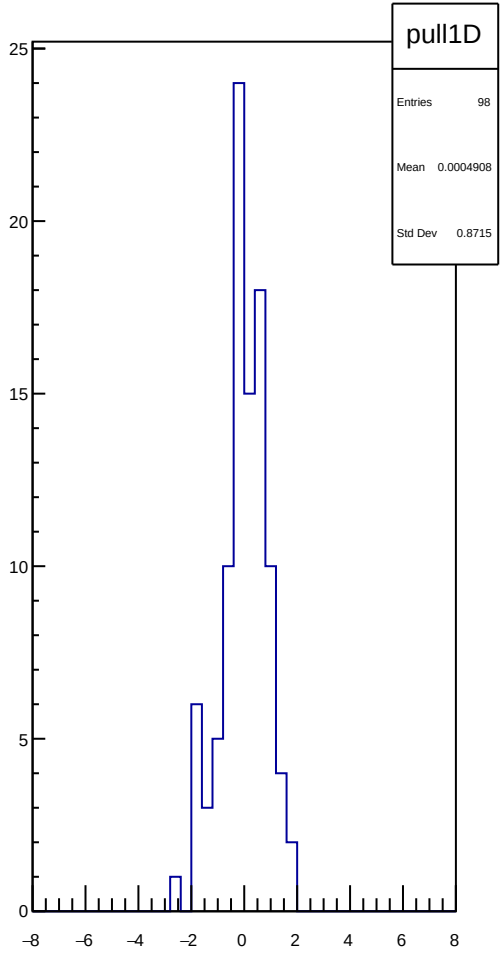

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.808e+05 / 97
p0 7.522e−10 ± 6.978e−13
6
5
4
3
2
1

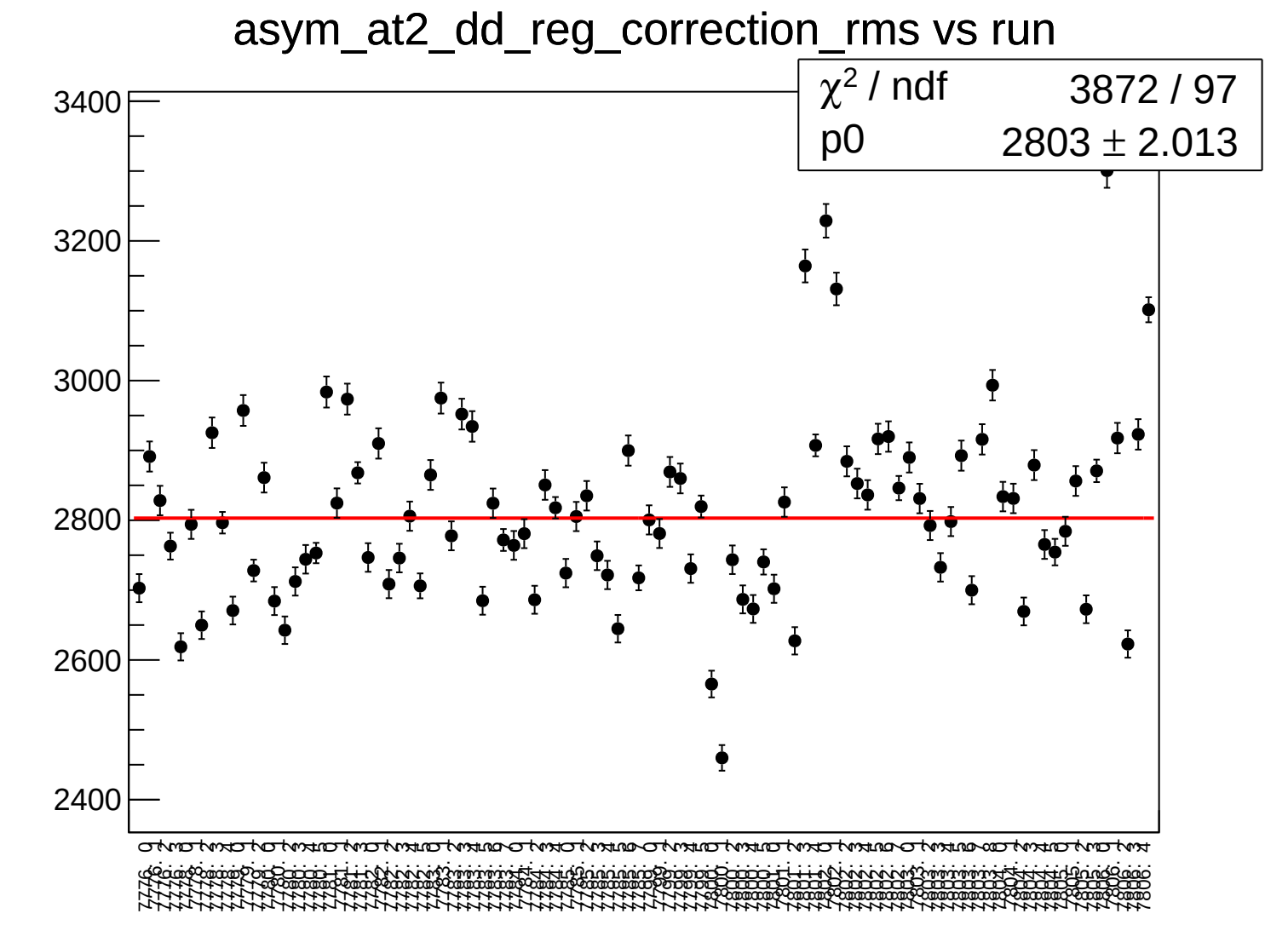

reg_asym_at2_dd_mean vs run
χ² / ndf 94.84 / 97
p0 −707 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 177.4
Std Dev 0
2
1
0
−1
−2

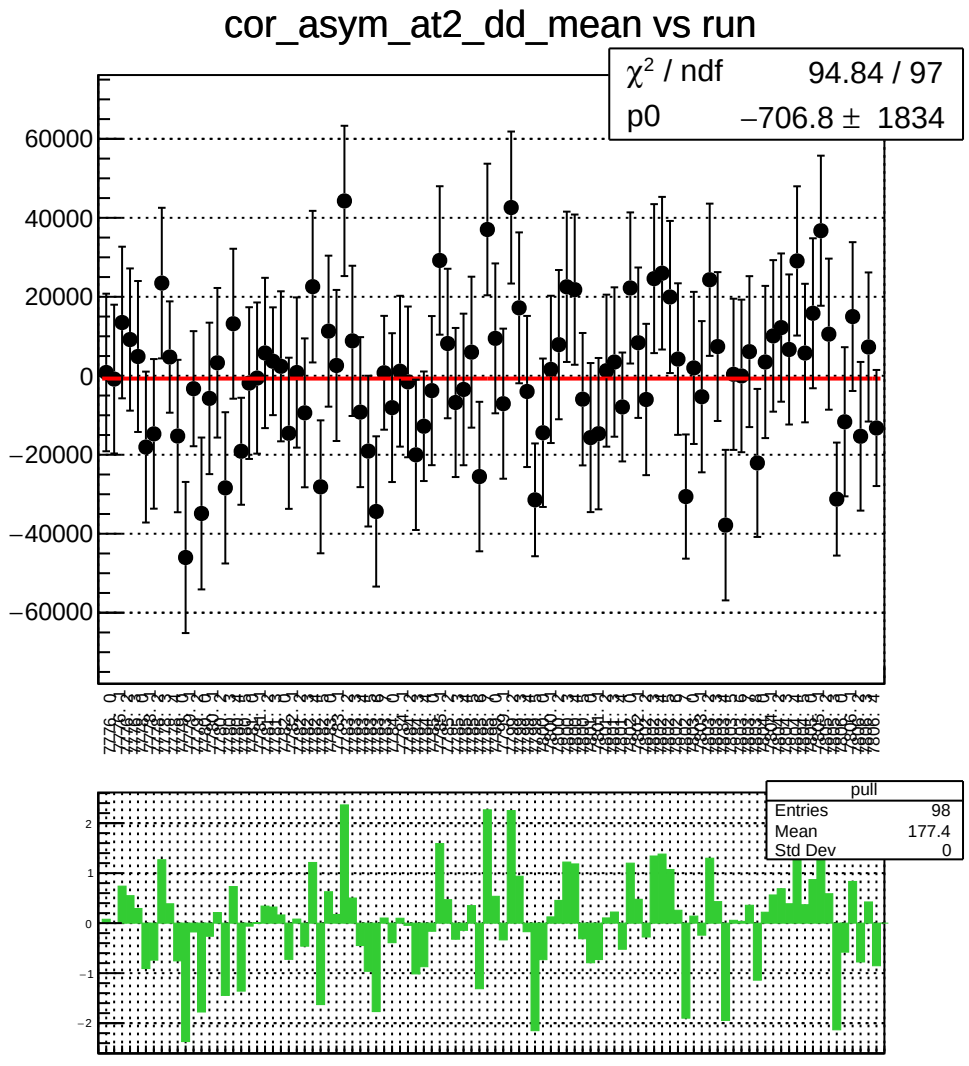

pull1D
Entries 98
Mean 0.02865
Std Dev 0.9833
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

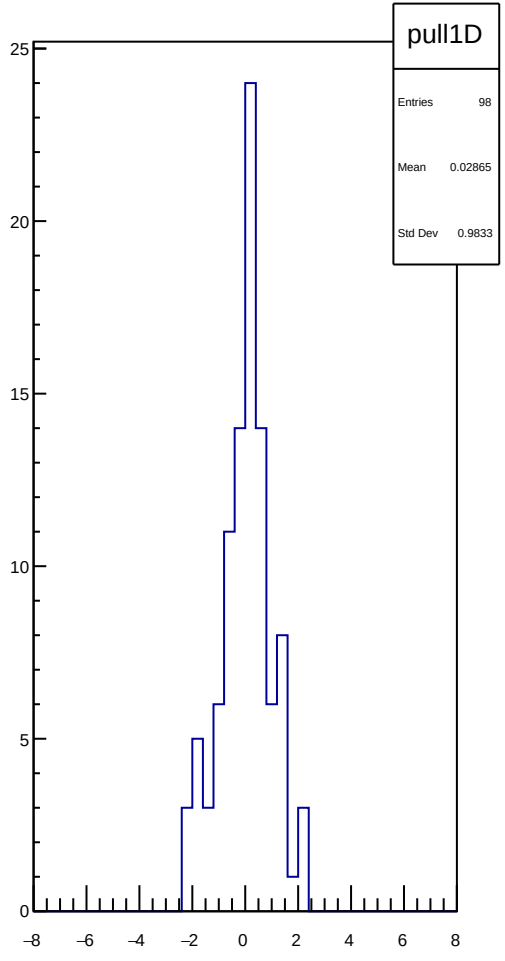

reg_asym_at2_dd_rms vs run
χ² / ndf 132.9 / 97
p0 1808 ± 1.297
1920
1900
1880
1860
1840
1820
1800
1780
1760

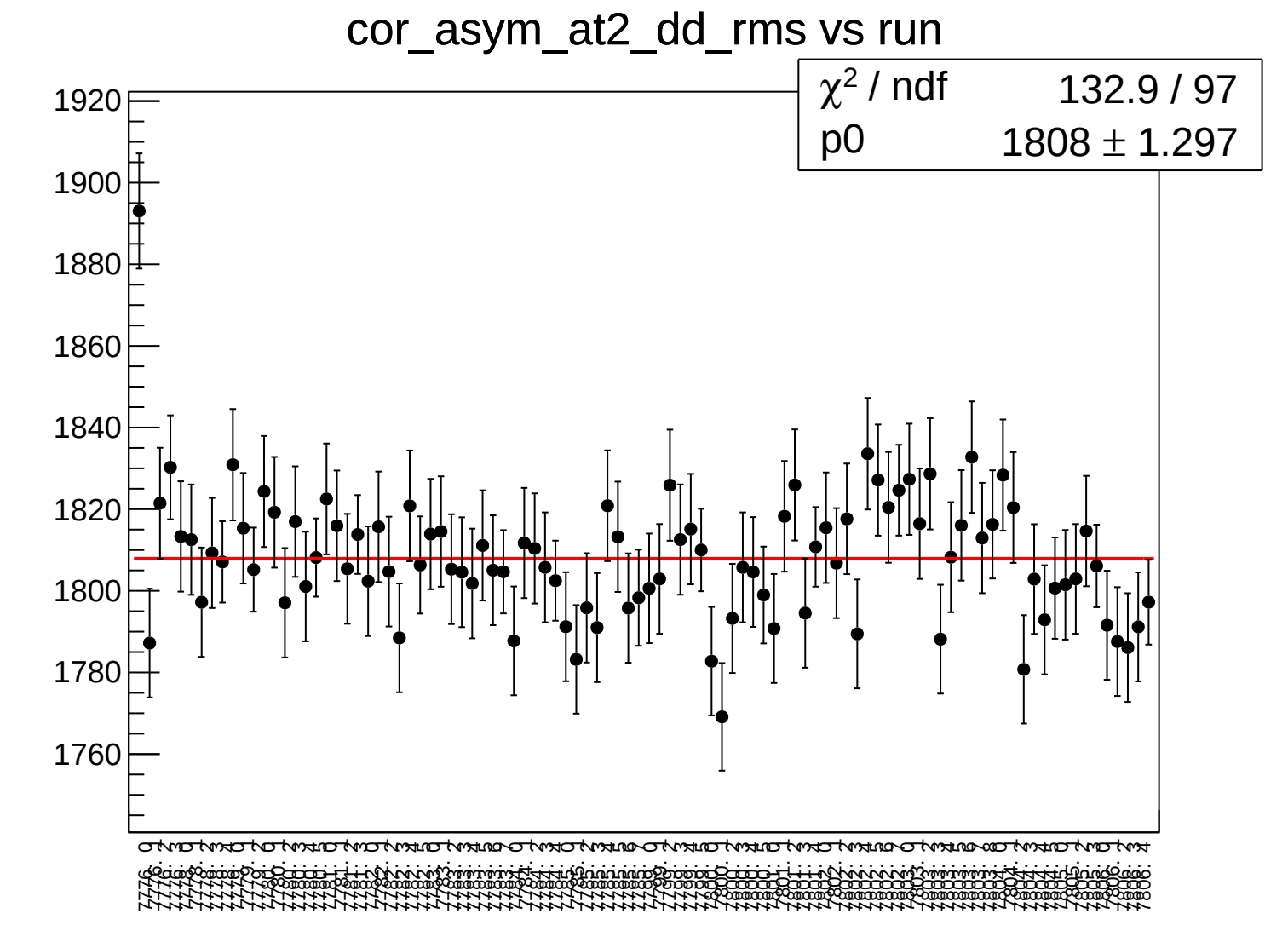

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 74.43 / 97
p0 1758 ± 2847
100
50
0
−50
−100
pull
Entries 98
Mean 8620
Std Dev 0
2
1
0
−1
−2

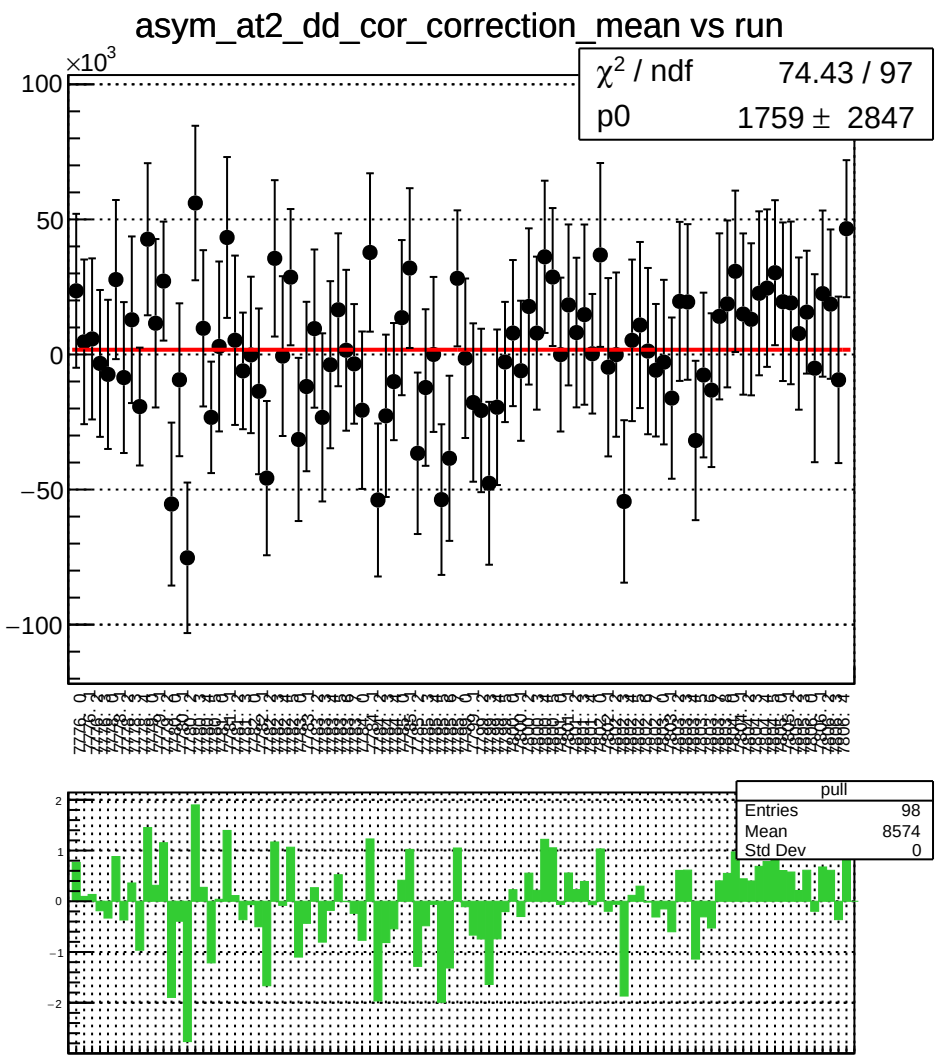

pull1D
Entries 98
Mean 0.0004908
Std Dev 0.8715
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

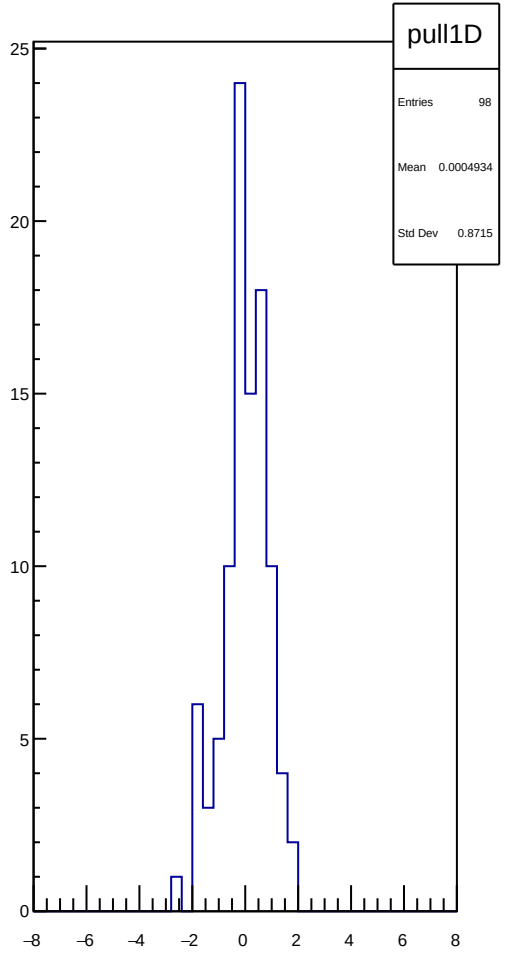

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 3872 / 97
p0 2803 ± 2.013
3400
3200
3000
2800
2600
2400

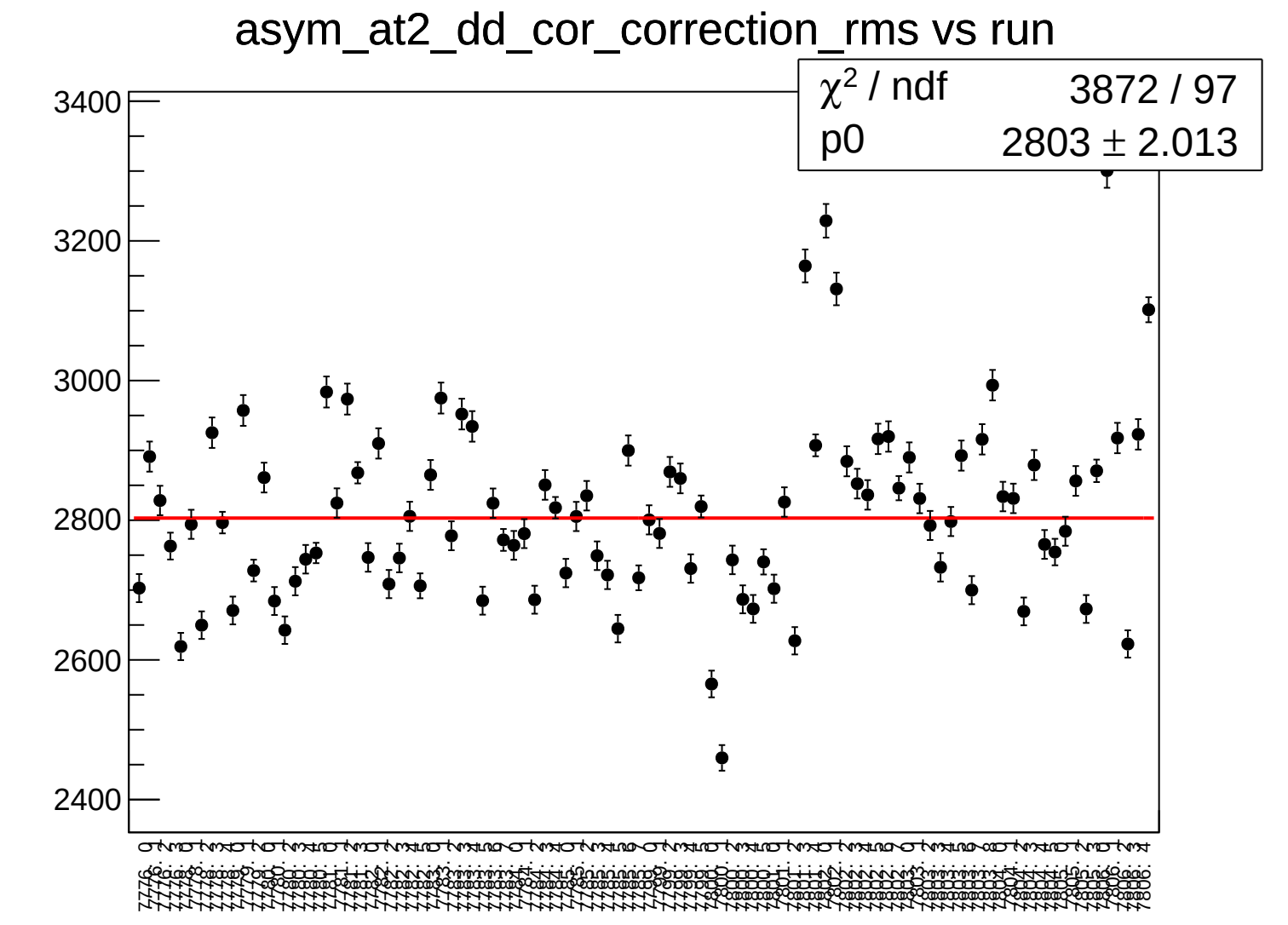

cor_asym_at2_dd_mean vs run
χ² / ndf 94.84 / 97
p0 −706.8 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 177.4
Std Dev 0
2
1
0
−1
−2

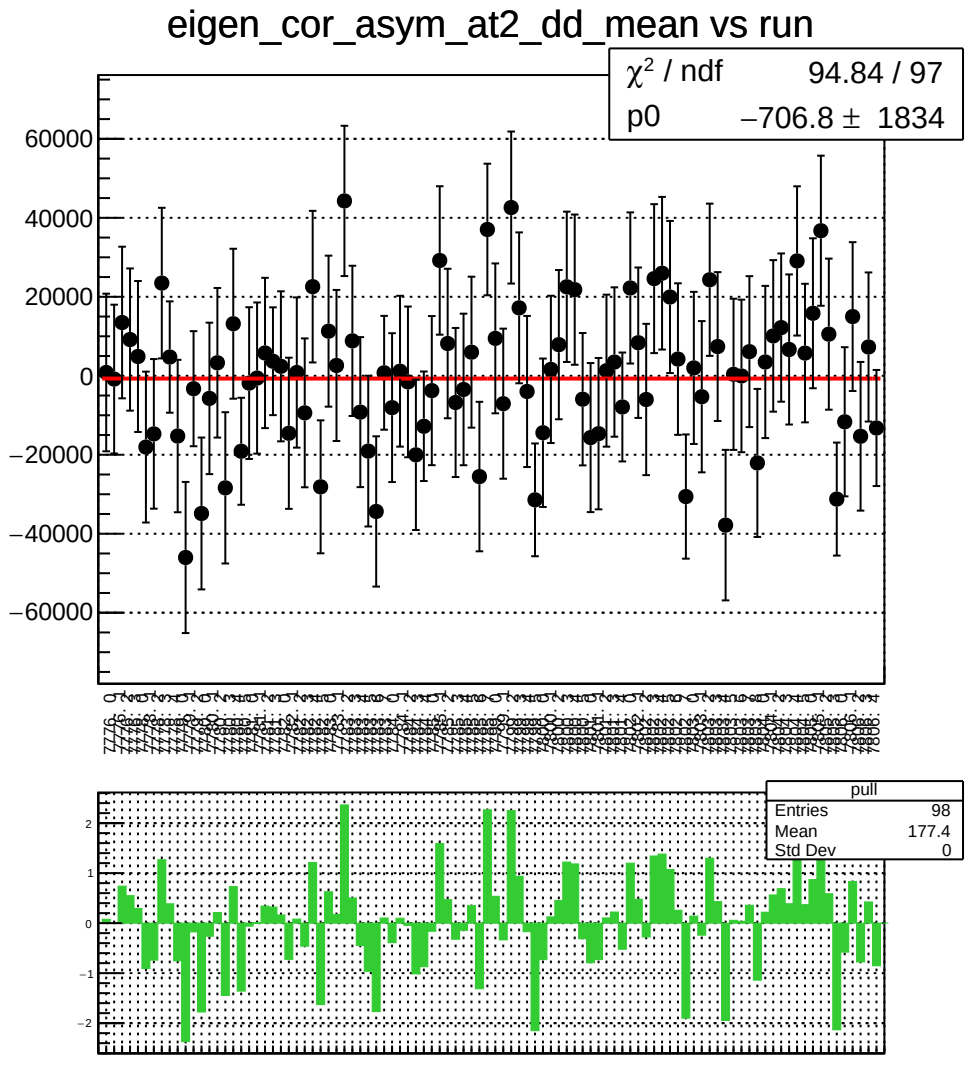

pull1D
Entries 98
Mean 0.02865
Std Dev 0.9833
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

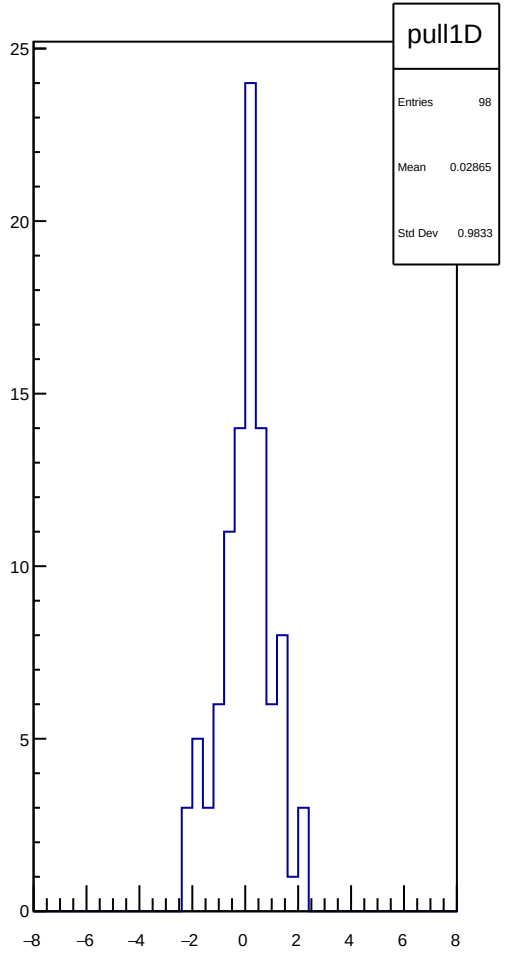

cor_asym_at2_dd_rms vs run
χ² / ndf 132.9 / 97
p0 1808 ± 1.297
1920
1900
1880
1860
1840
1820
1800
1780
1760

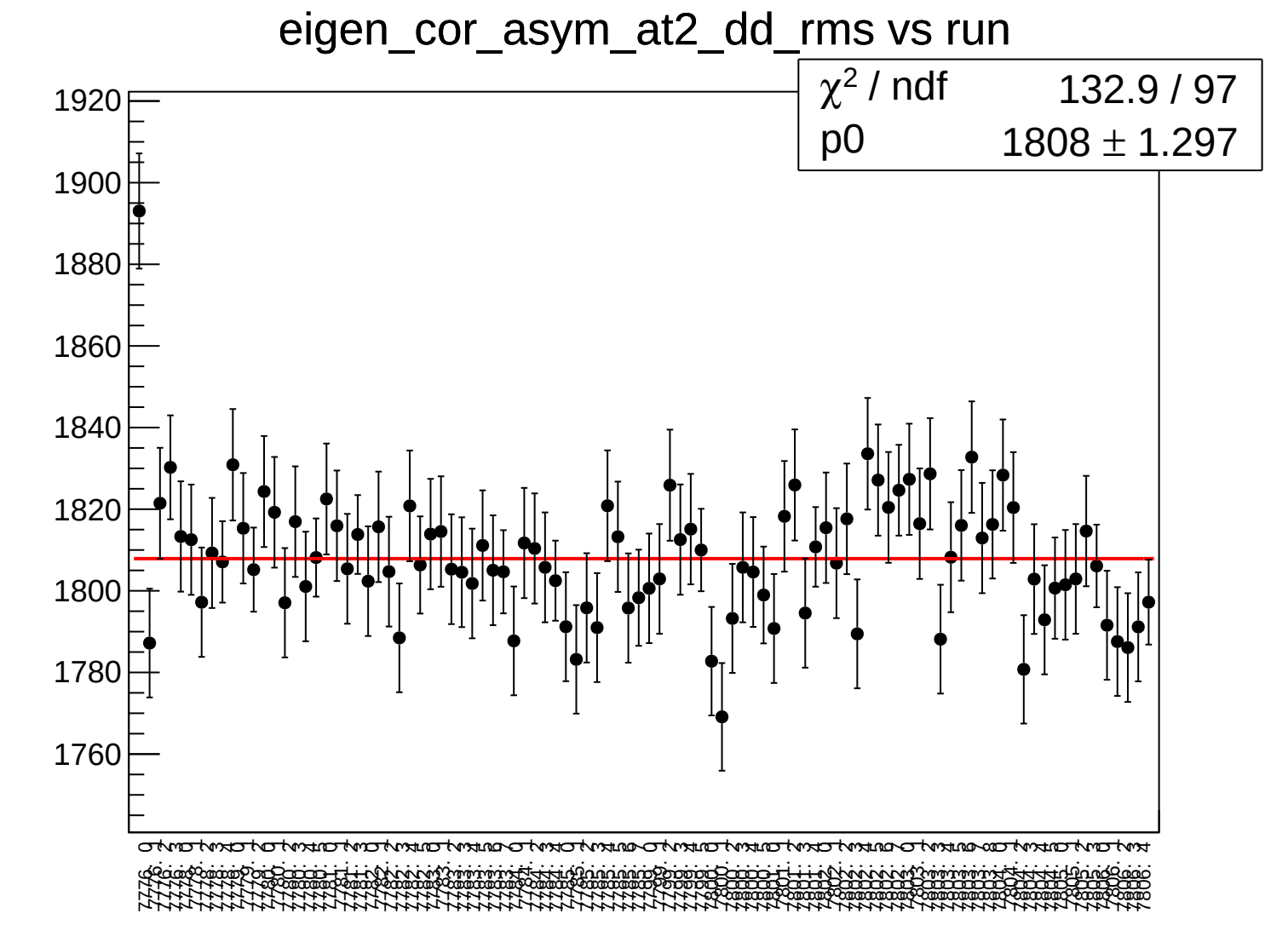

asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 74.43 / 97
p0 1759 ± 2847
100
50
0
−50
−100
pull
Entries 98
Mean 8574
Std Dev 0
2
1
0
−1
−2

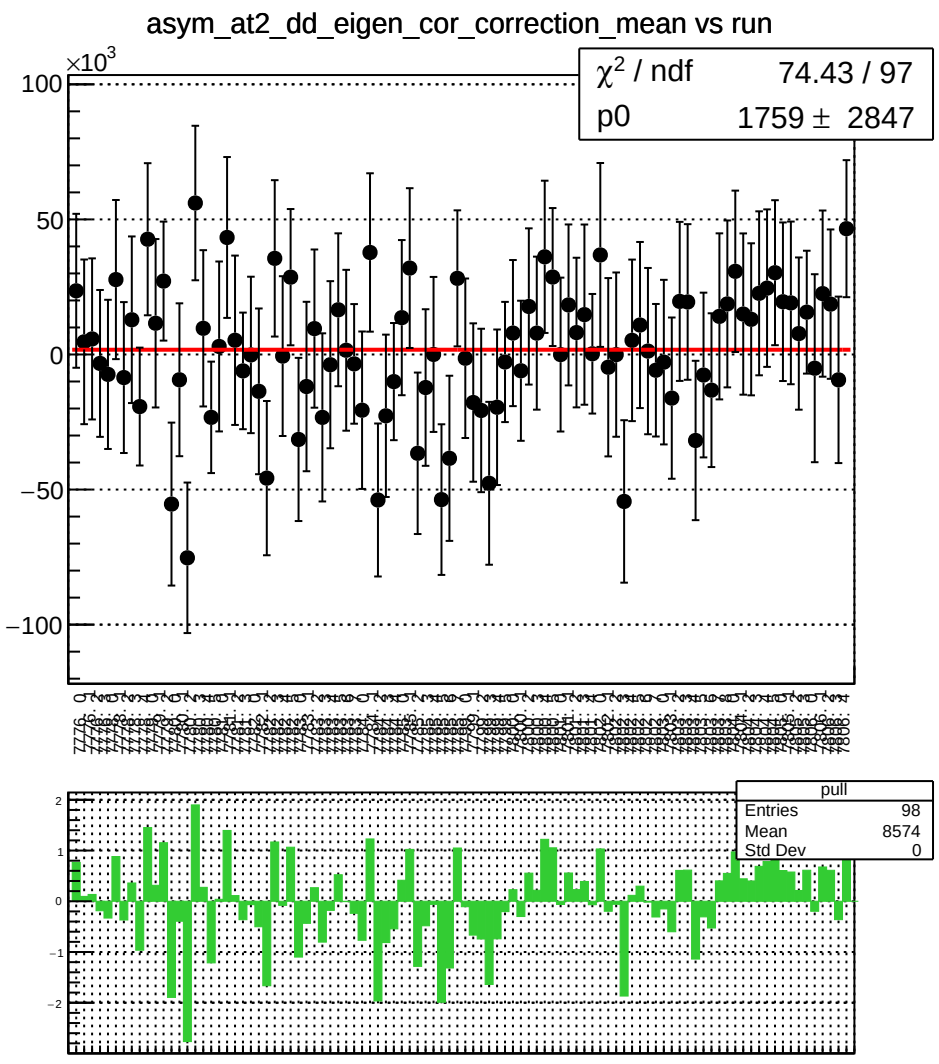

pull1D
Entries 98
Mean 0.0004934
Std Dev 0.8715
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

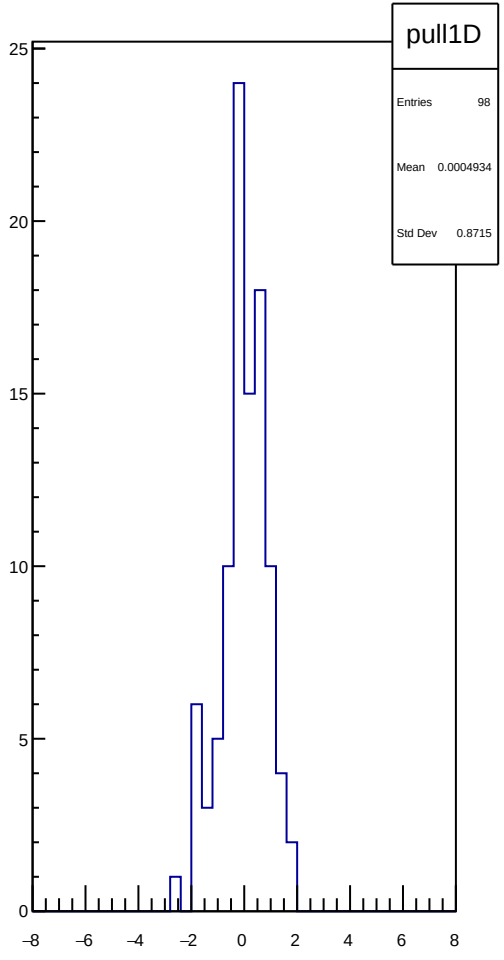

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 3872 / 97
p0 2803 ± 2.013
3400
3200
3000
2800
2600
2400

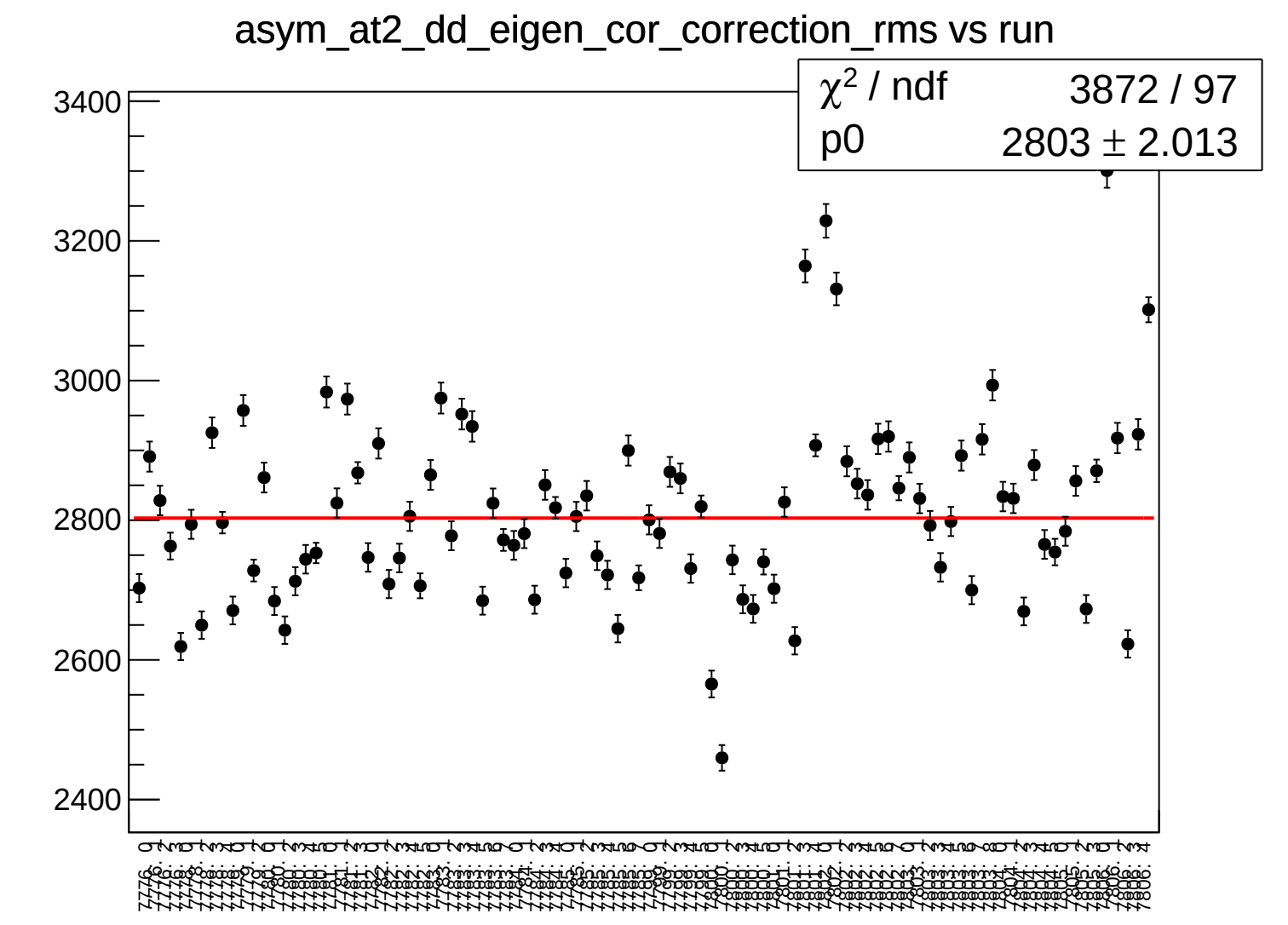

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 94.84 / 97
p0 −706.8 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 177.4
Std Dev 0
2
1
0
−1
−2

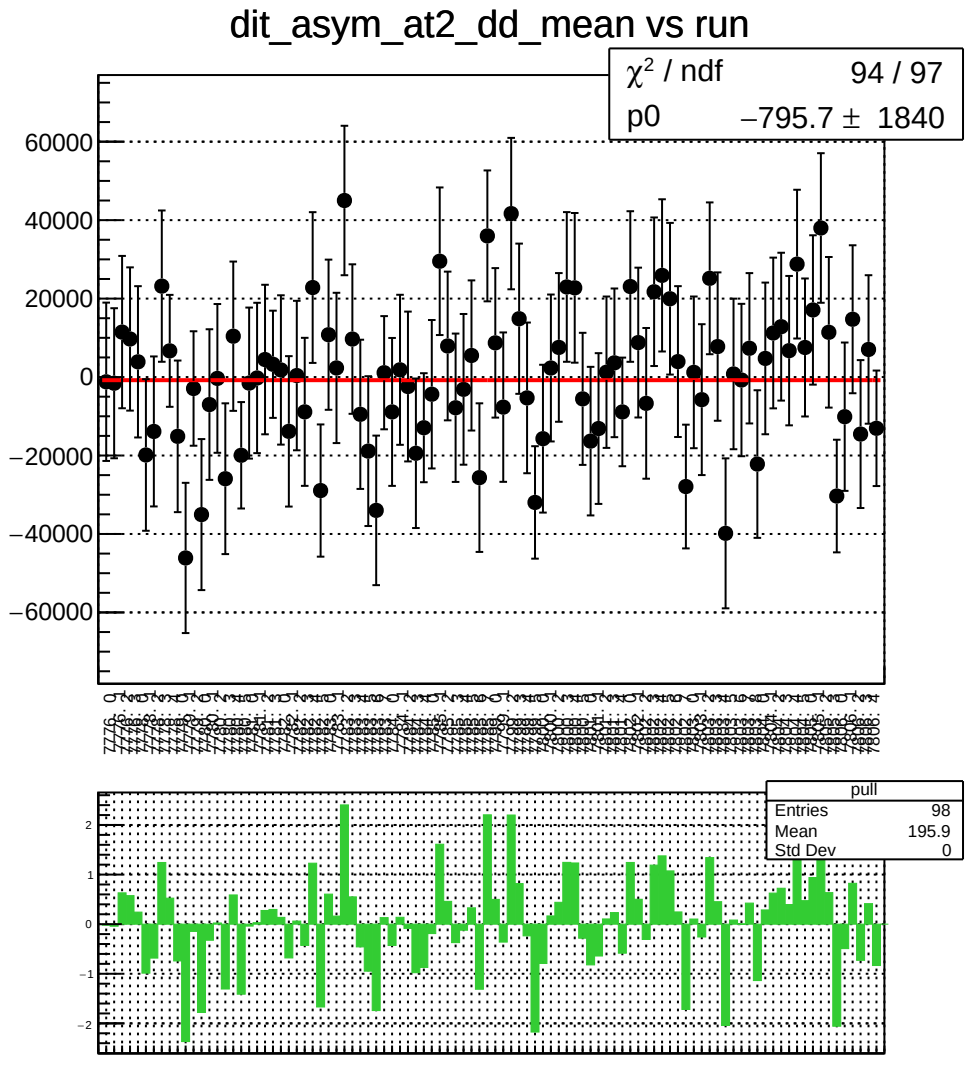

pull1D
Entries 98
Mean 0.02865
Std Dev 0.9833
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

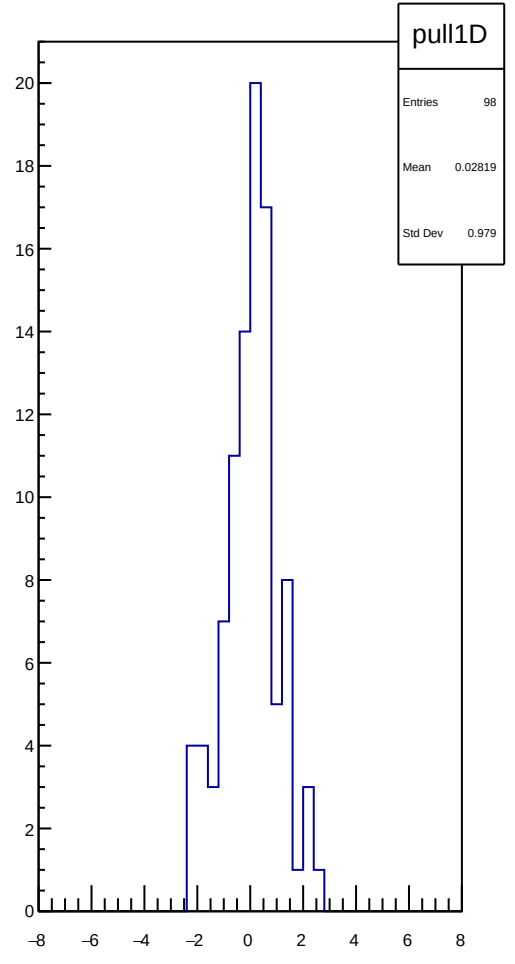

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 132.9 / 97
p0 1808 ± 1.297
1920
1900
1880
1860
1840
1820
1800
1780
1760

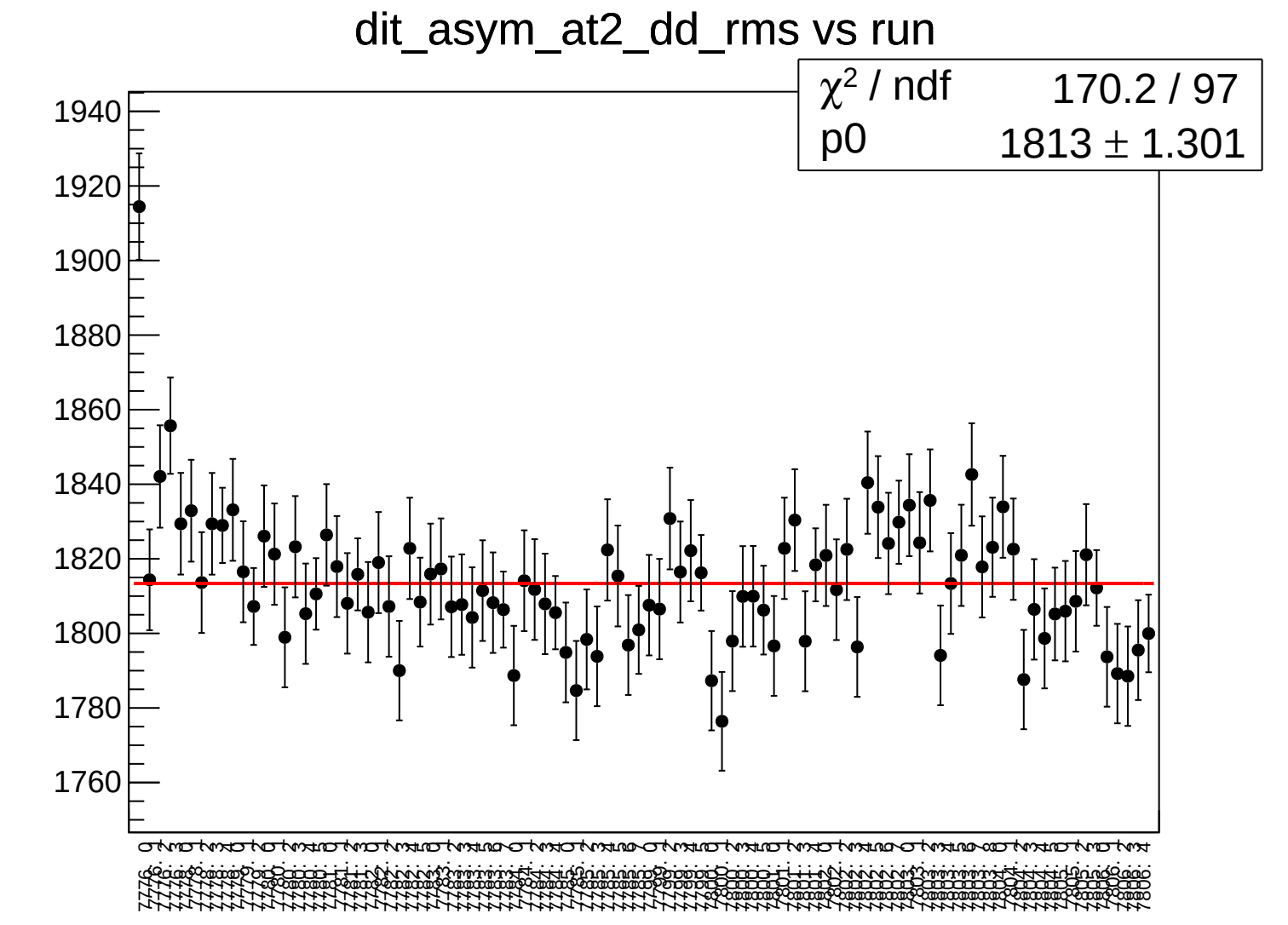

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.43 / 97
p0 1759 ± 2847
100
50
0
−50
−100
pull
Entries 98
Mean 8574
Std Dev 0
2
1
0
−1
−2

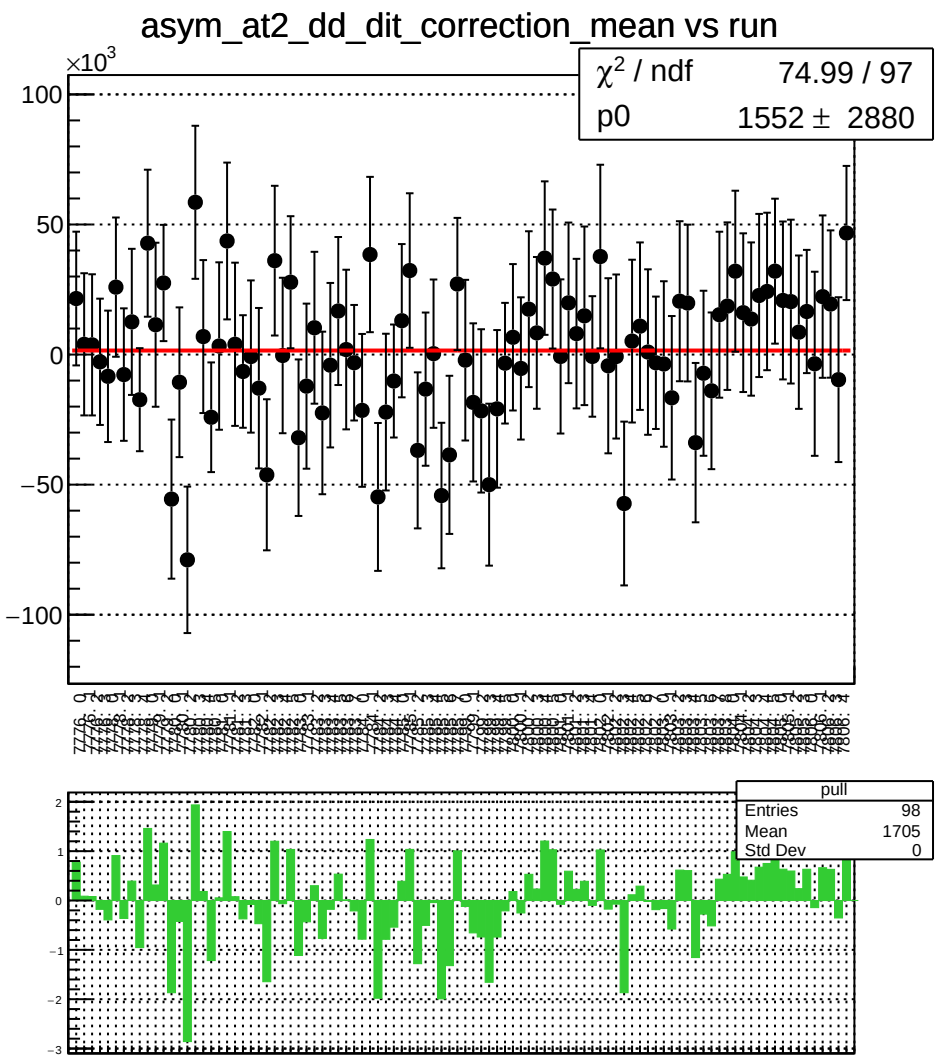

pull1D
Entries 98
Mean 0.0004934
Std Dev 0.8715
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

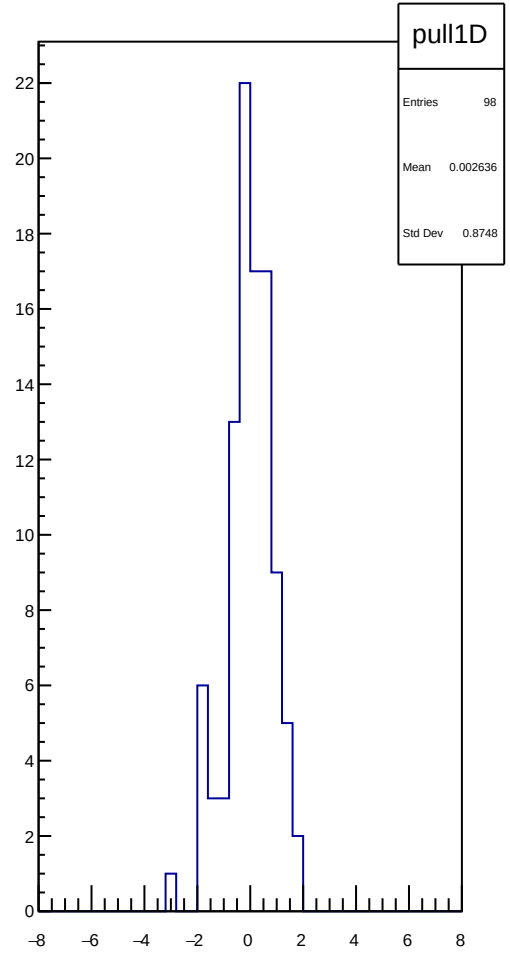

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3872 / 97
p0 2803 ± 2.013
3400
3200
3000
2800
2600
2400

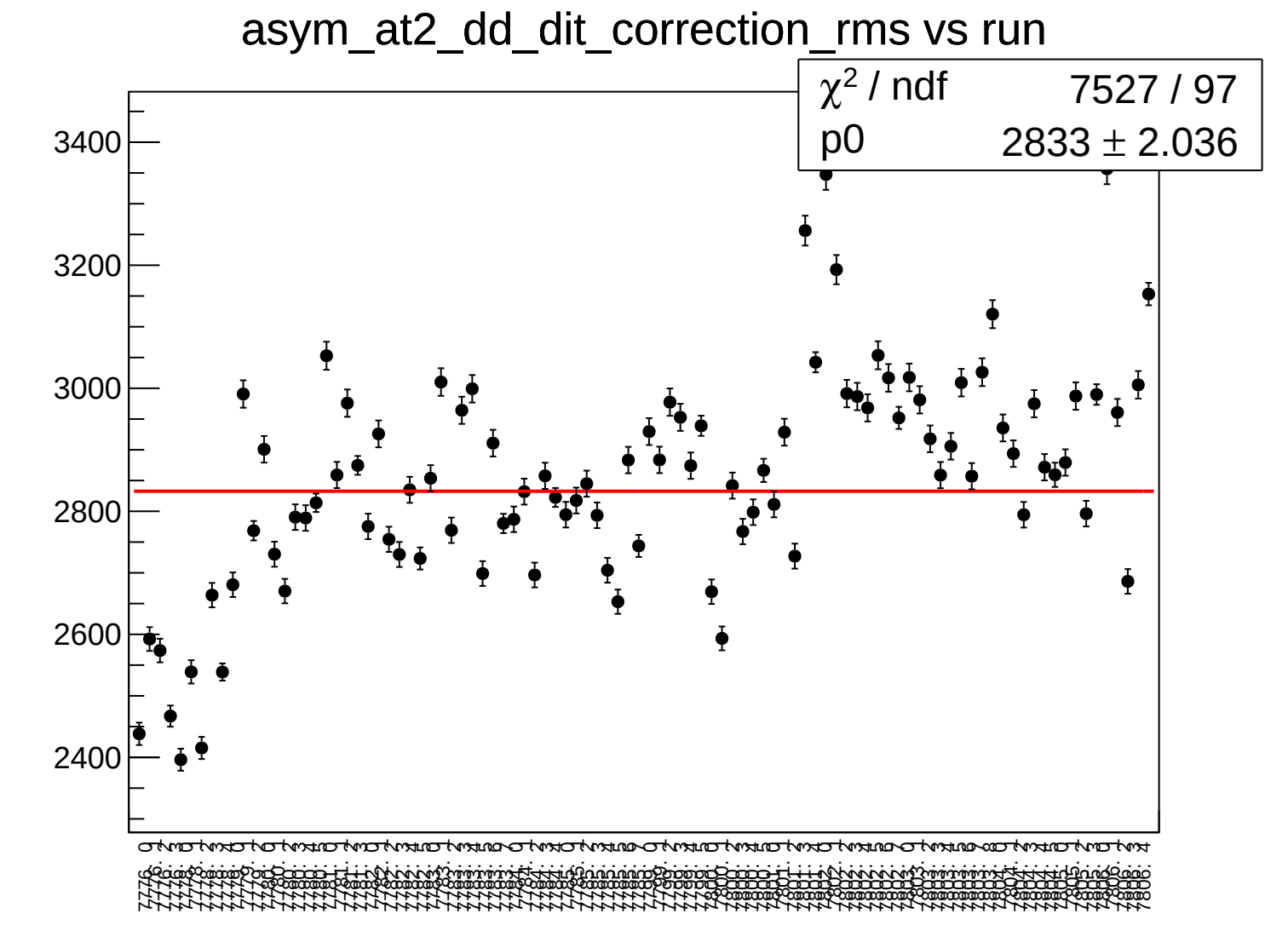

dit_asym_at2_dd_mean vs run
χ² / ndf 94 / 97
p0 −795.7 ± 1840
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 195.9
Std Dev 0
2
1
0
−1
−2

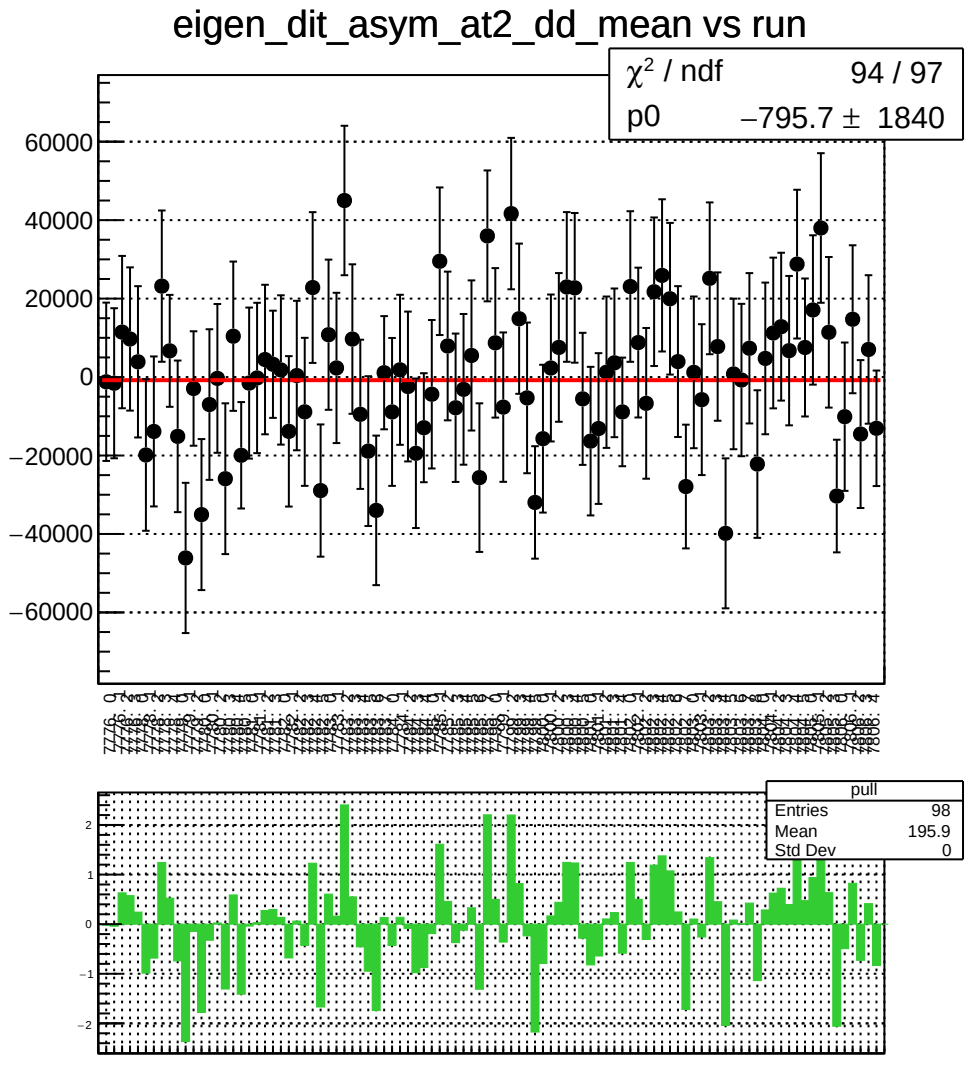

pull1D
Entries 98
Mean 0.02819
Std Dev 0.979
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

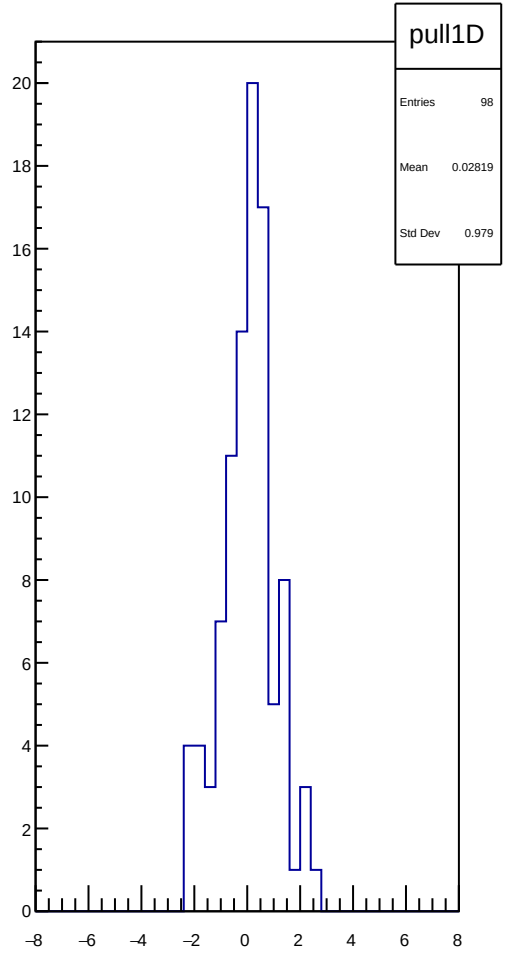

dit_asym_at2_dd_rms vs run
χ² / ndf 170.2 / 97
p0 1813 ± 1.301
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

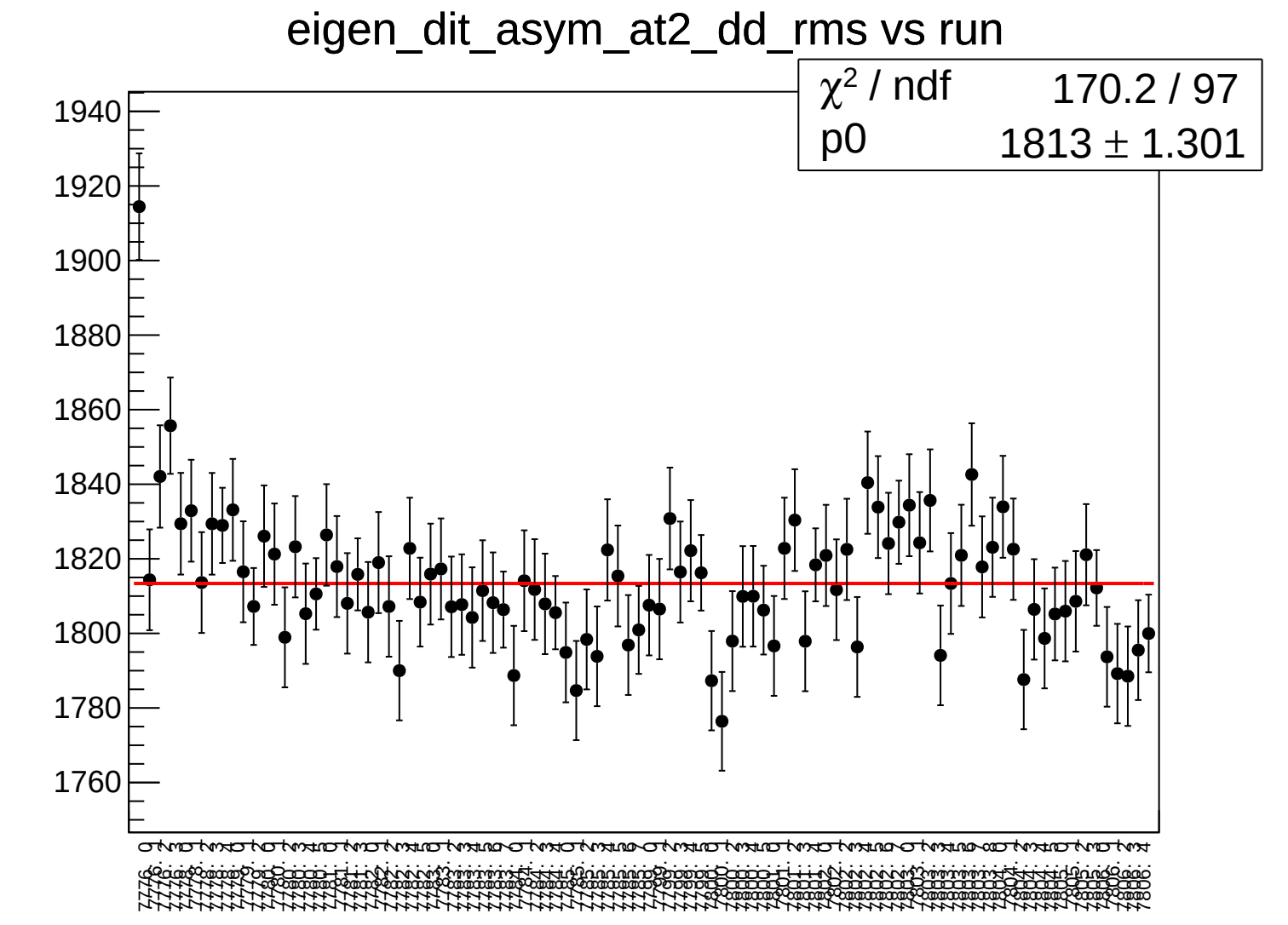

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 74.99 / 97
p0 1552 ± 2880
100
50
0
−50
−100
pull
Entries 98
Mean 1705
Std Dev 0
2
1
0
−1
−2
−3

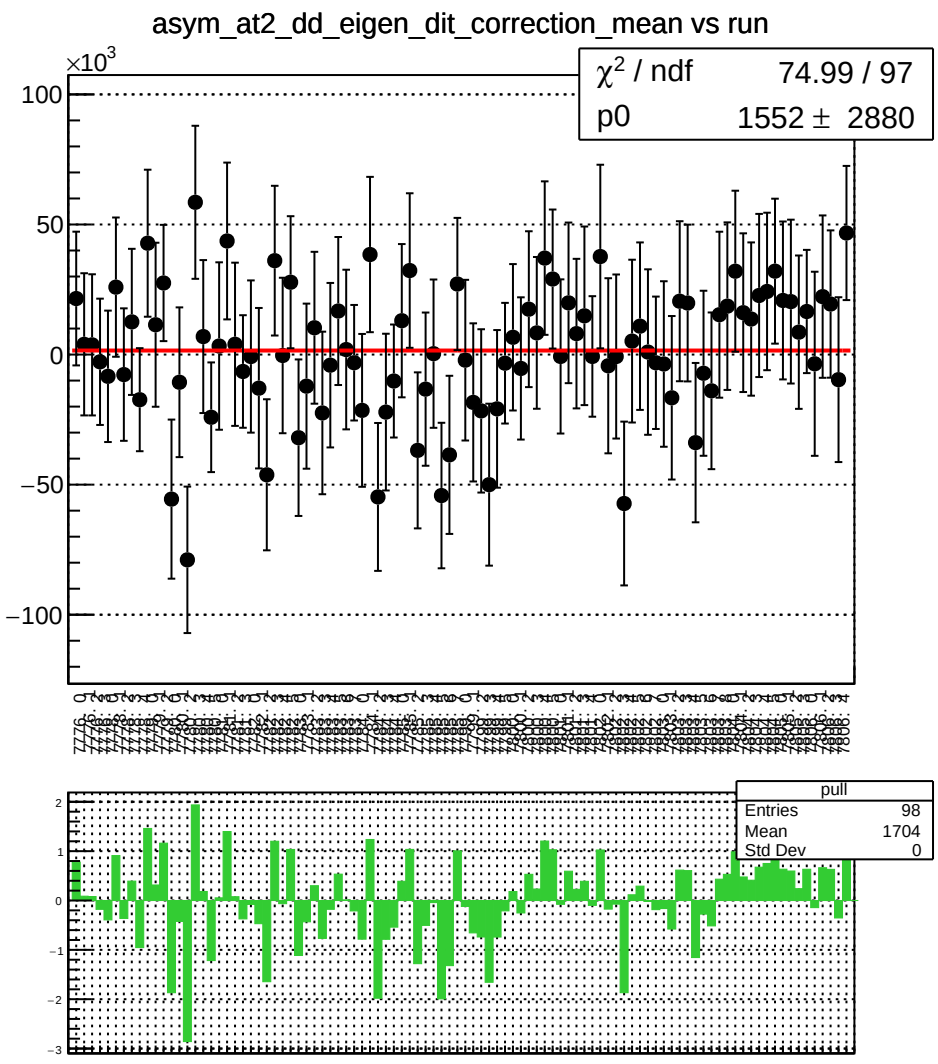

pull1D
Entries 98
Mean 0.002636
Std Dev 0.8748
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

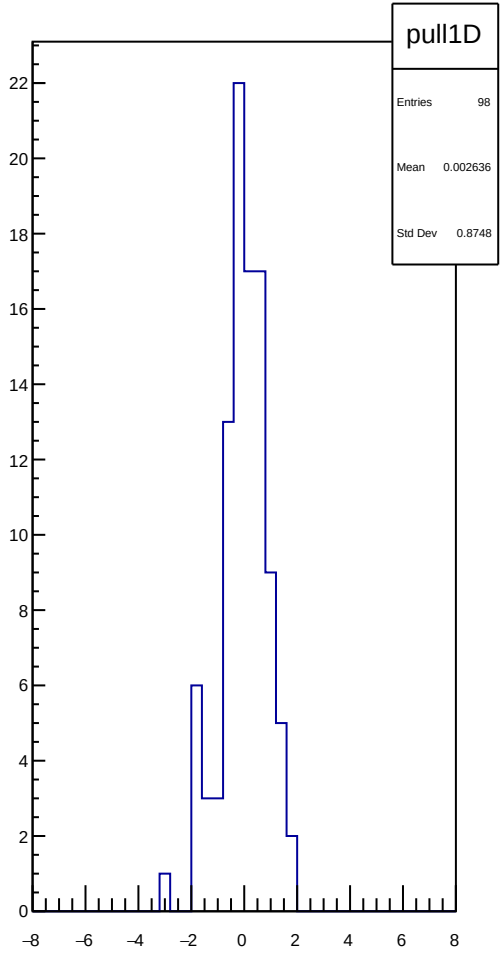

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 7527 / 97
p0 2833 ± 2.036
3400
3200
3000
2800
2600
2400

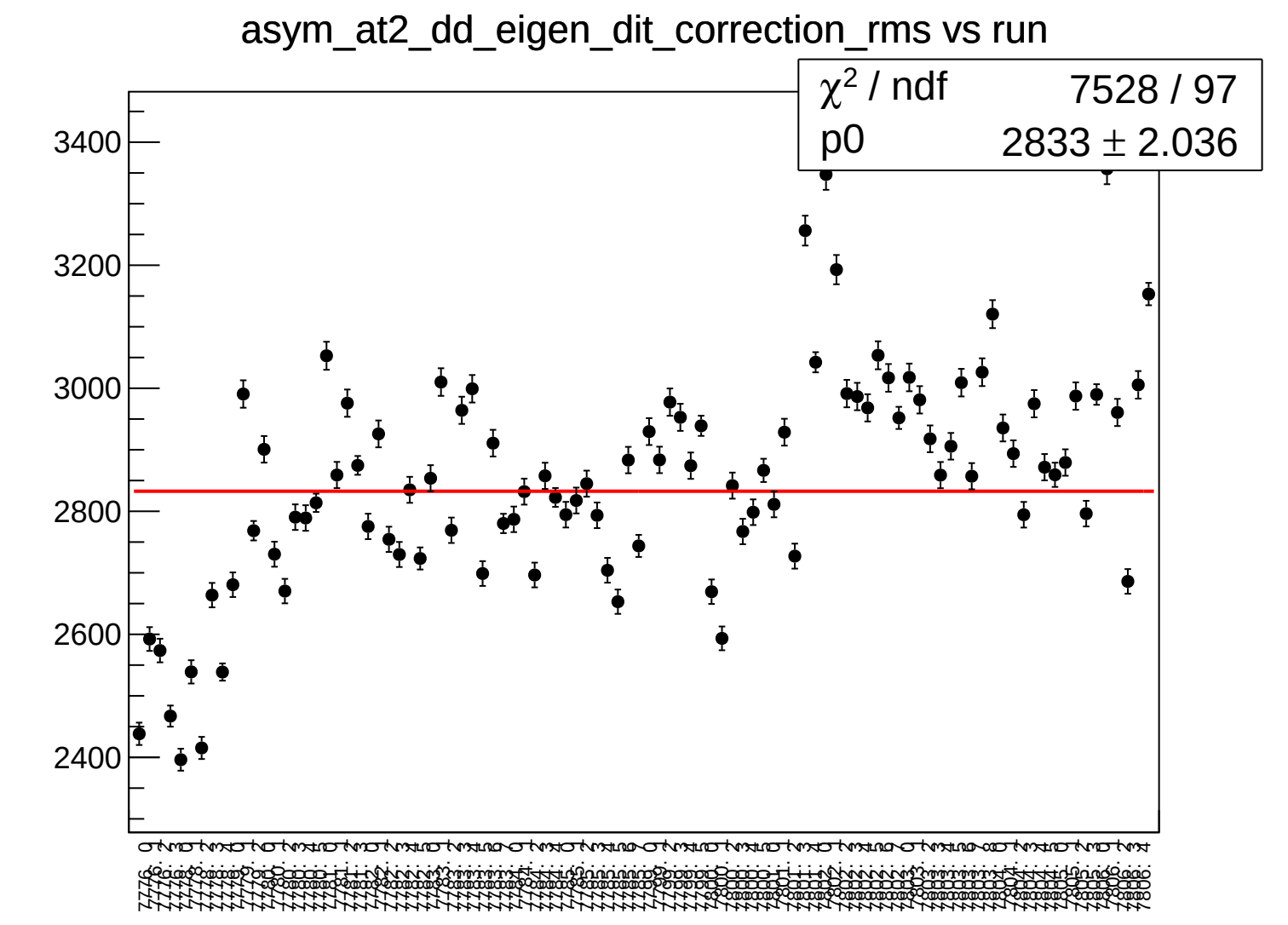

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 94 / 97
p0 −795.7 ± 1840
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 195.9
Std Dev 0
2
1
0
−1
−2

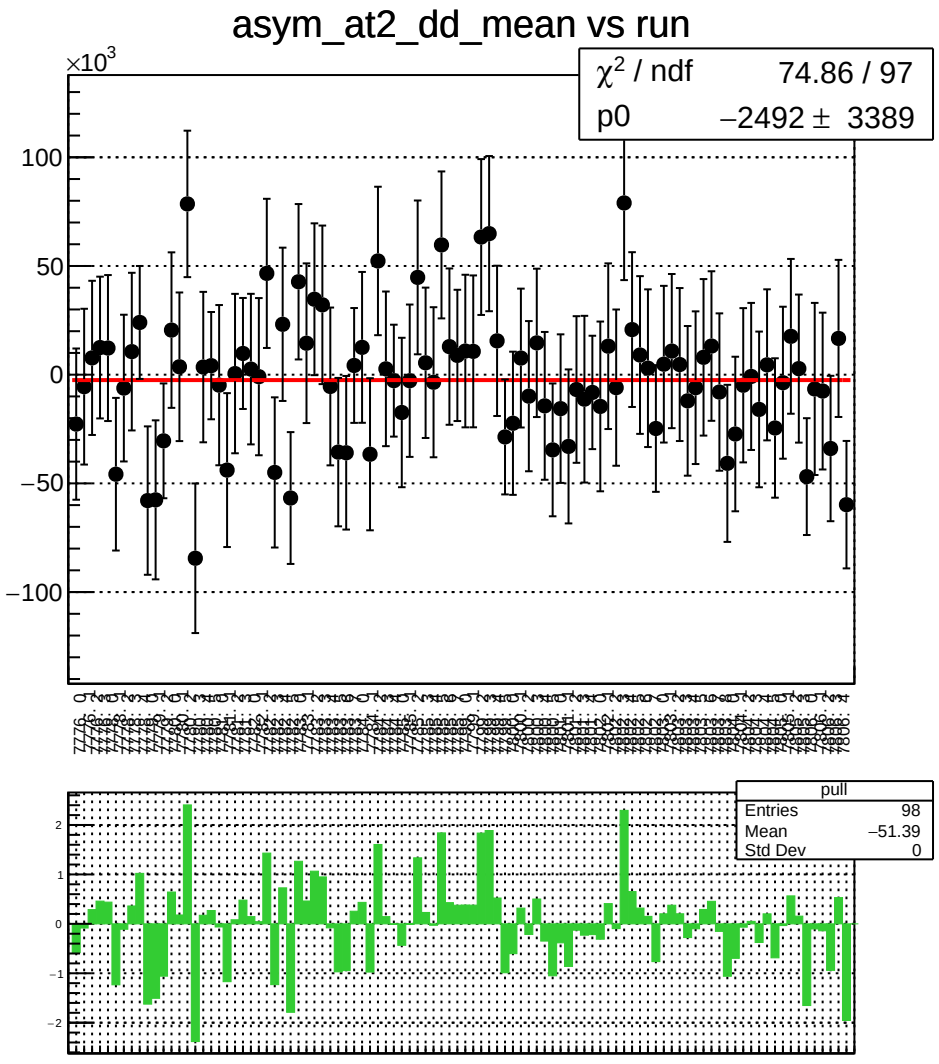

pull1D
Entries 98
Mean 0.02819
Std Dev 0.979
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

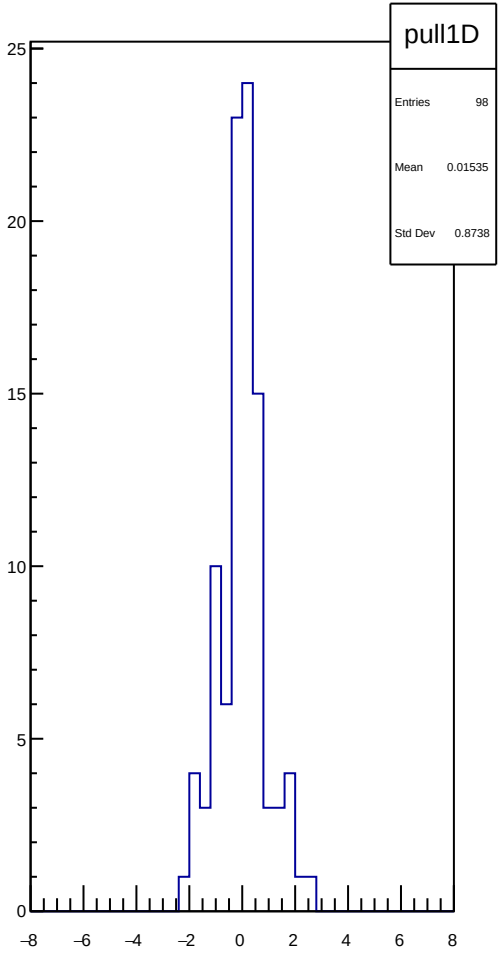

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 170.2 / 97
p0 1813 ± 1.301
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

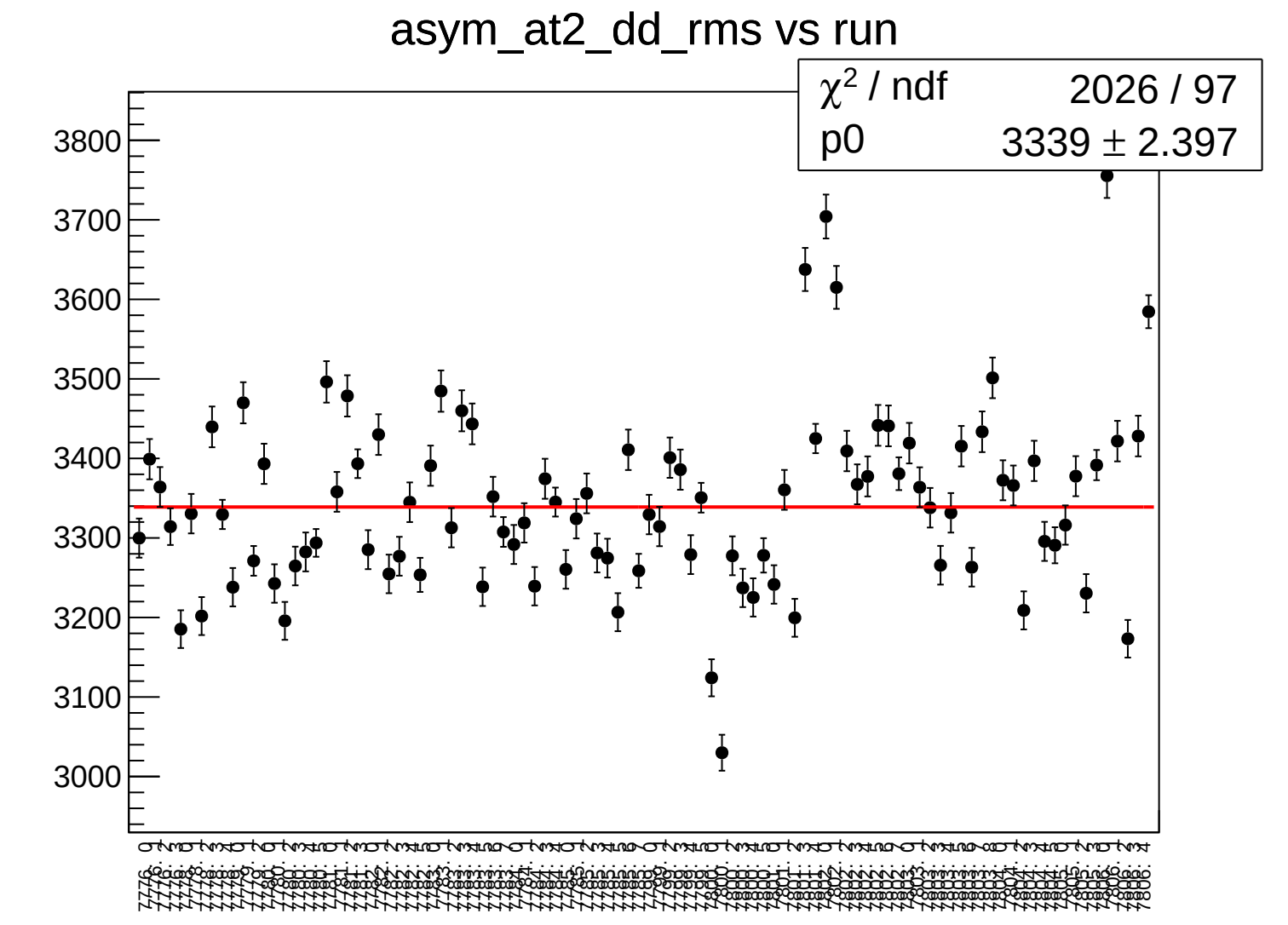

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.99 / 97
p0 1552 ± 2880
100
50
0
−50
−100
pull
Entries 98
Mean 1704
Std Dev 0
2
1
0
−1
−2
−3

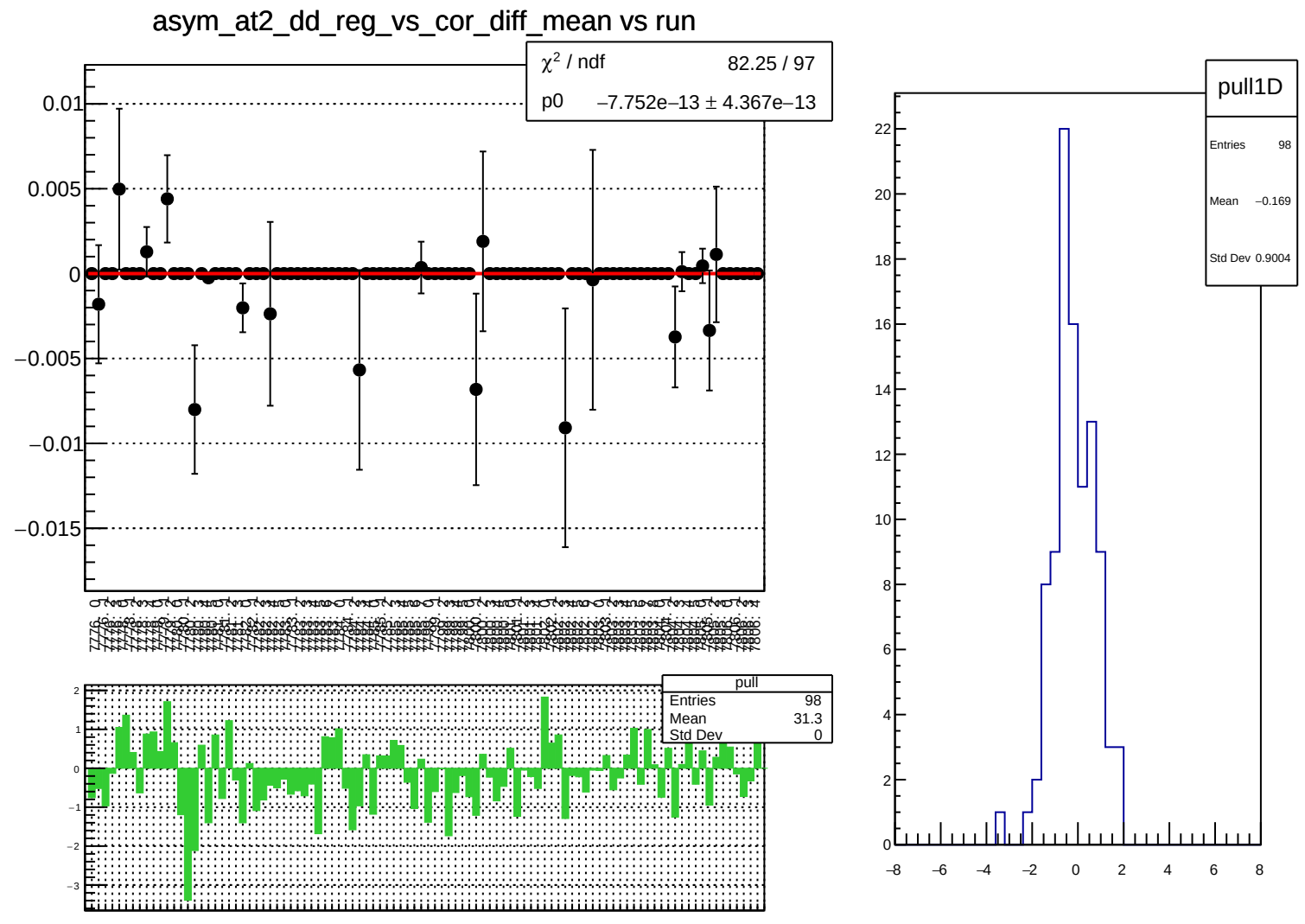

pull1D
Entries 98
Mean 0.002636
Std Dev 0.8748
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

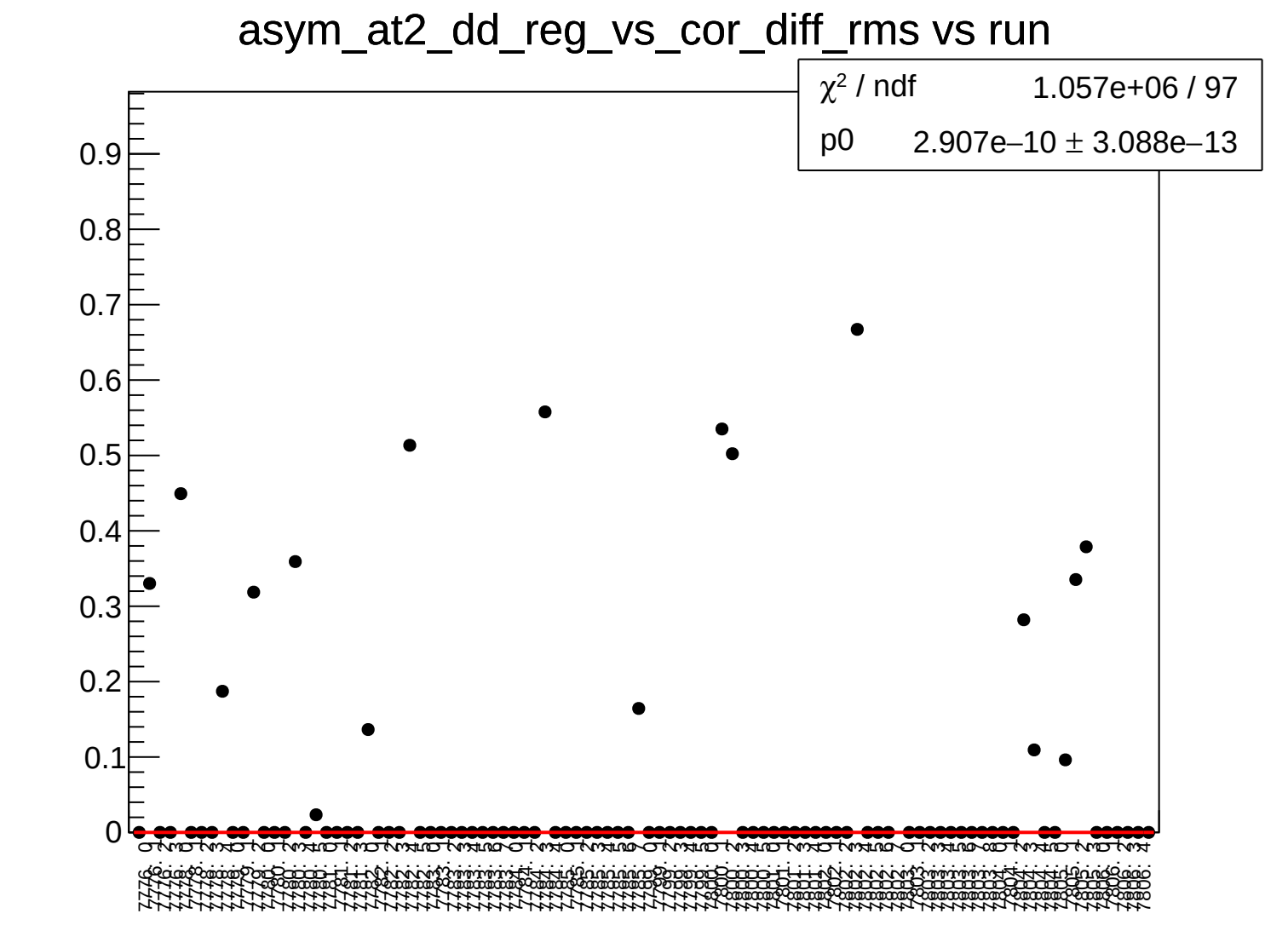

asym_at2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 7528 / 97
p0 2833 ± 2.036
3400
3200
3000
2800
2600
2400

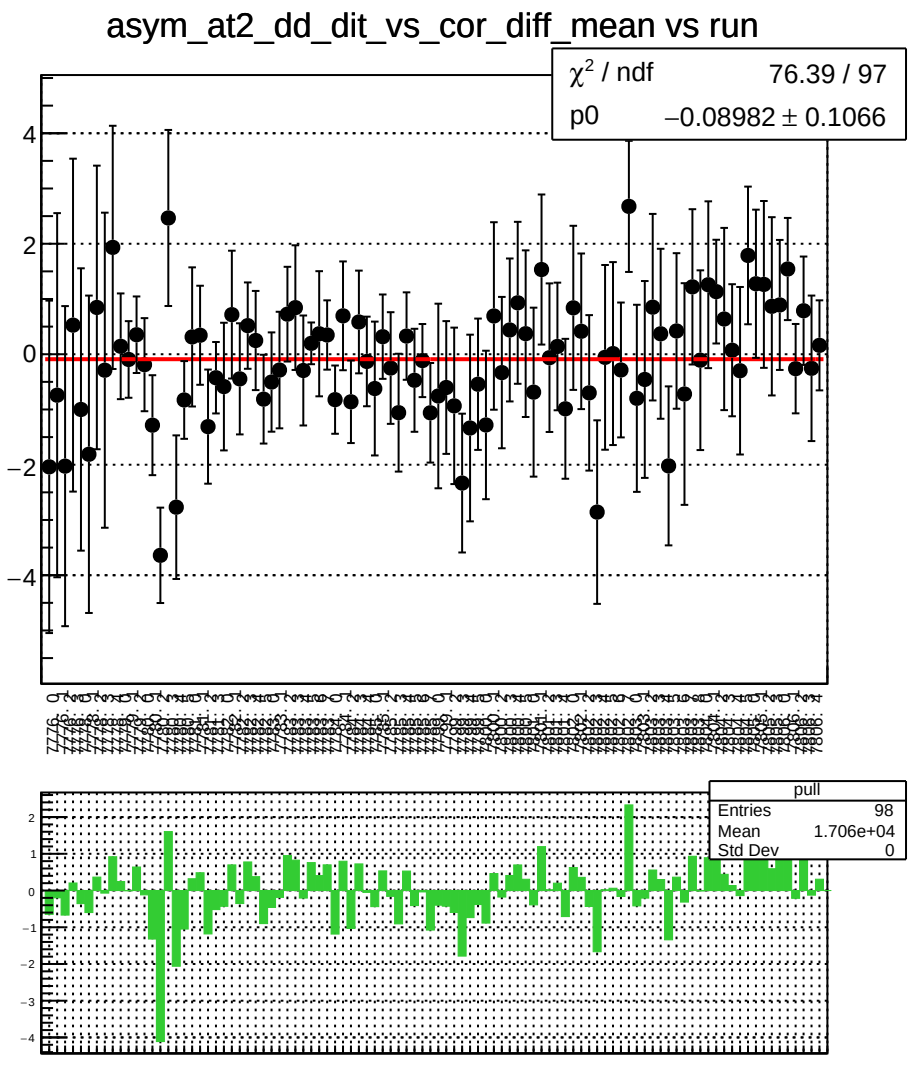

asym_at2_dd_mean vs run
×10^3
χ² / ndf 74.86 / 97
p0 −2492 ± 3389
100
50
0
−50
−100
pull
Entries 98
Mean −51.39
Std Dev 0
2
1
0
−1
−2

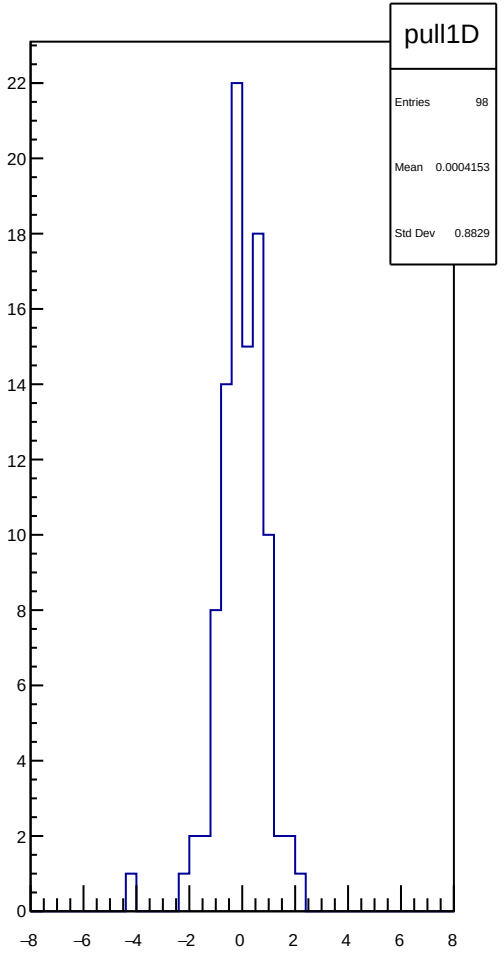

pull1D
Entries 98
Mean 0.01535
Std Dev 0.8738
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

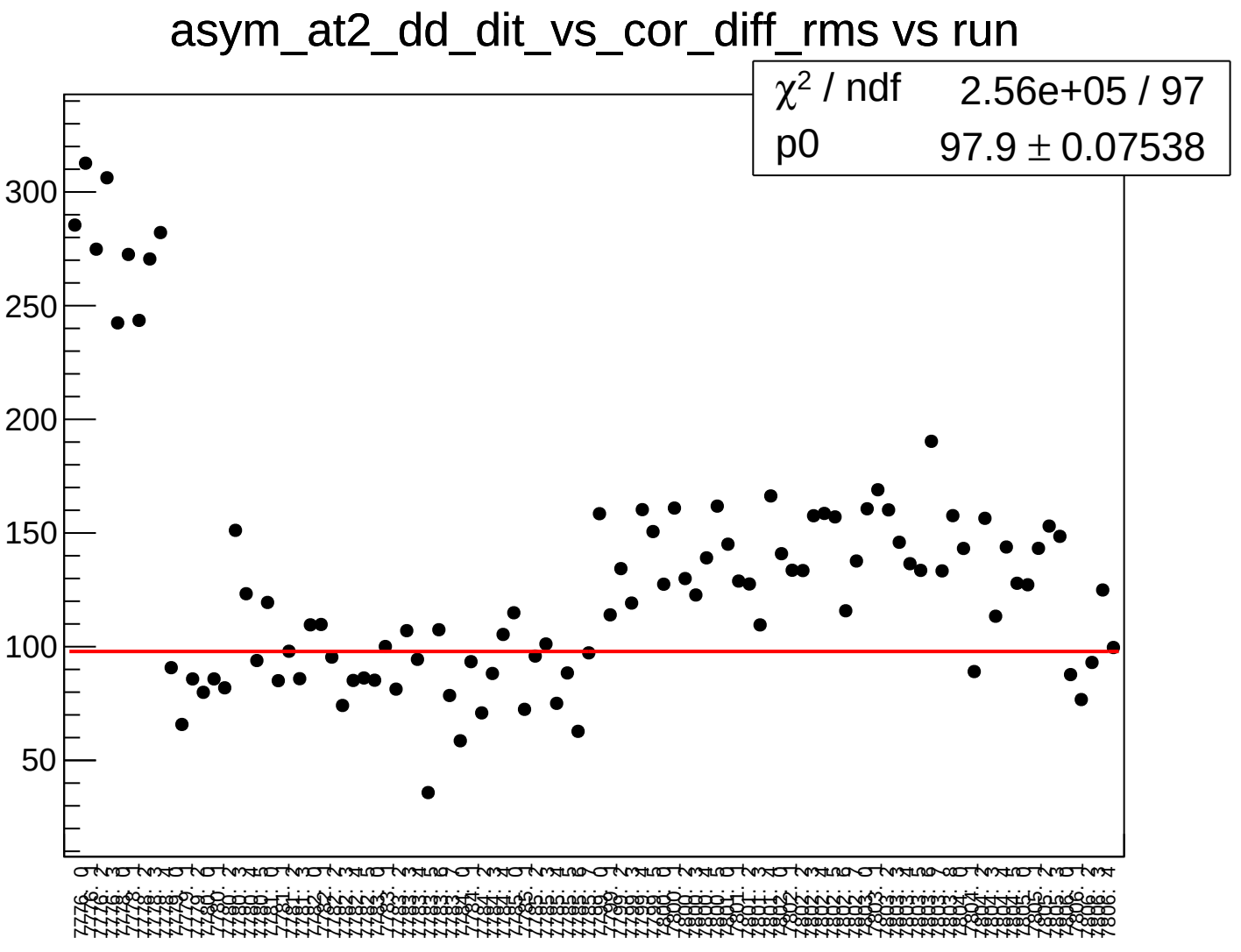

asym_at2_dd_rms vs run
χ² / ndf 2026 / 97
p0 3339 ± 2.397
3800
3700
3600
3500
3400
3300
3200
3100
3000

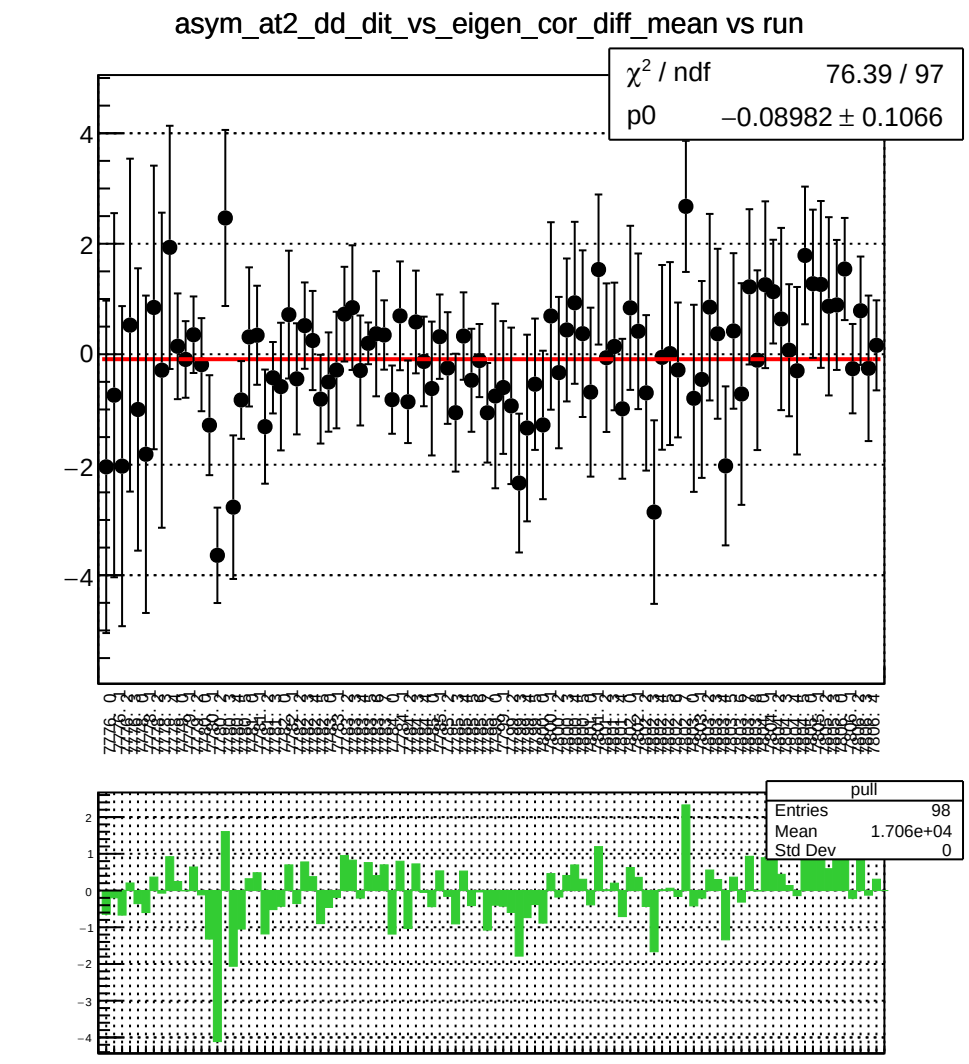

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.25 / 97
p0 −7.752e−13 ± 4.367e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 98
Mean 31.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean −0.169
Std Dev 0.9004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

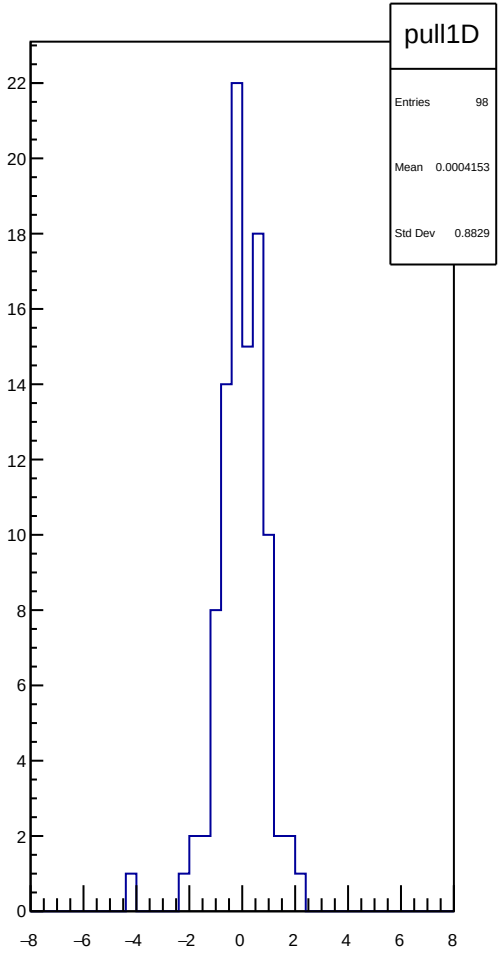

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 97
p0 2.907e−10 ± 3.088e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

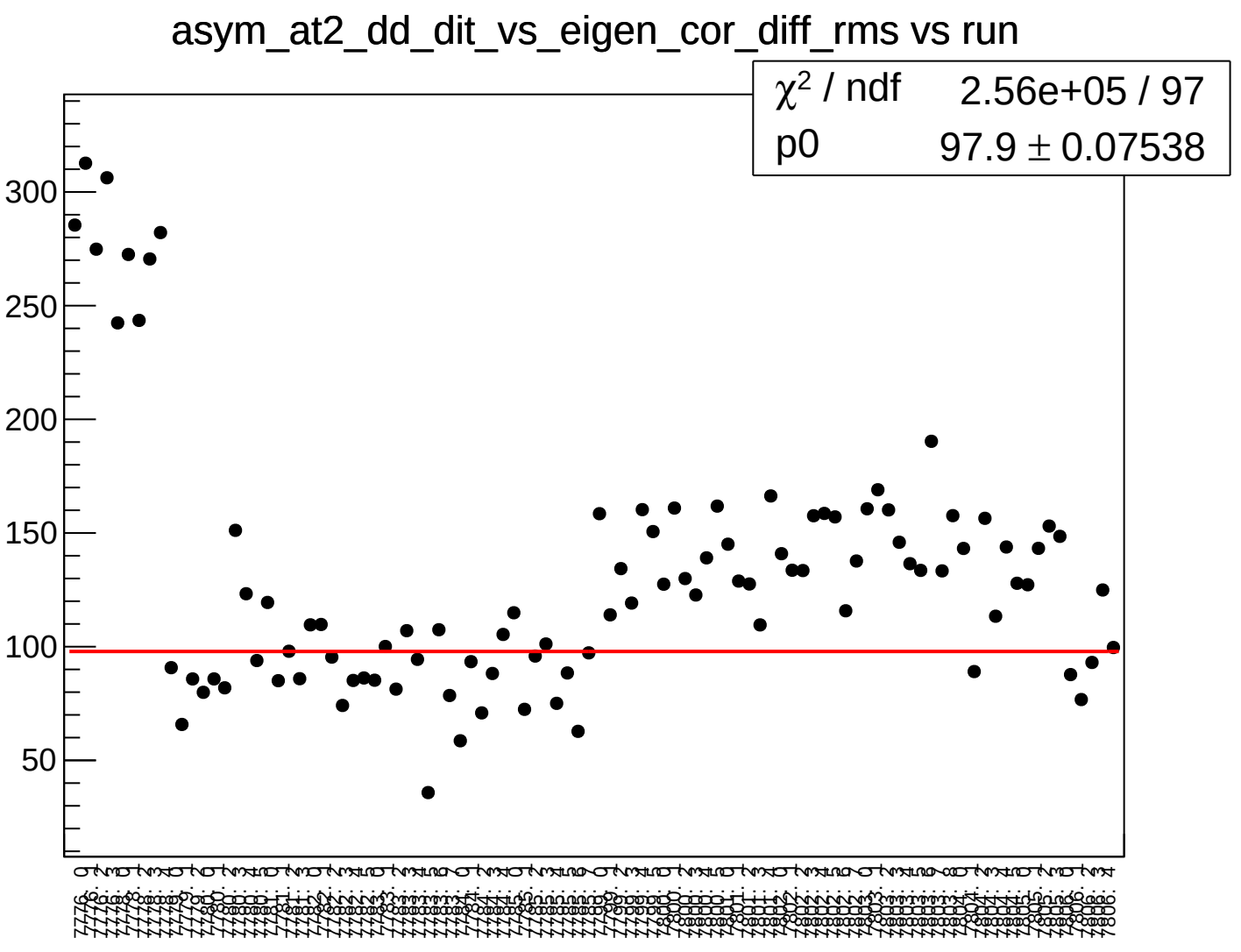

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.39 / 97
p0 −0.08982 ± 0.1066
pull
Entries 98
Mean 1.706e+04
Std Dev 0

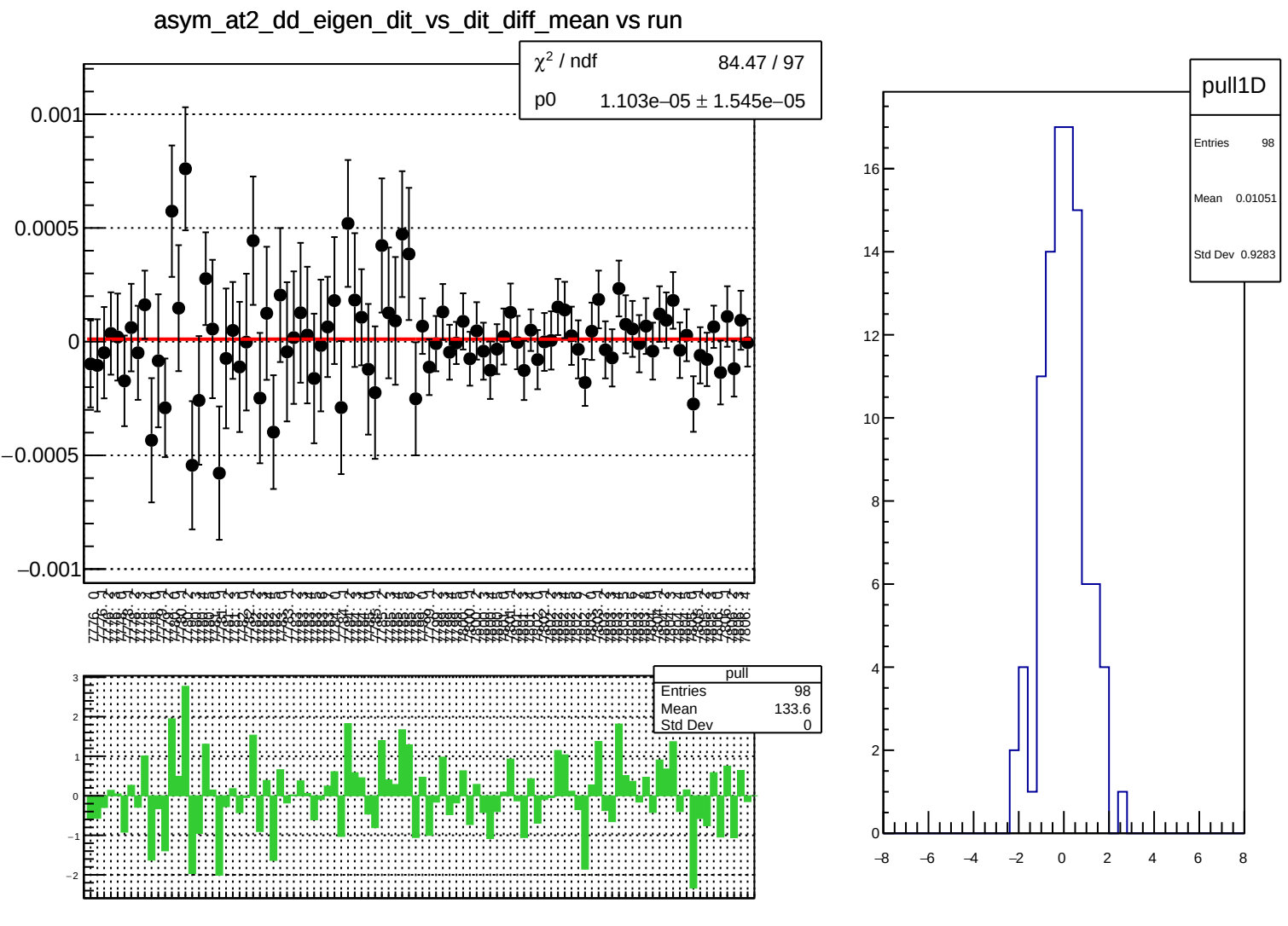

pull1D
Entries 98
Mean 0.0004153
Std Dev 0.8829

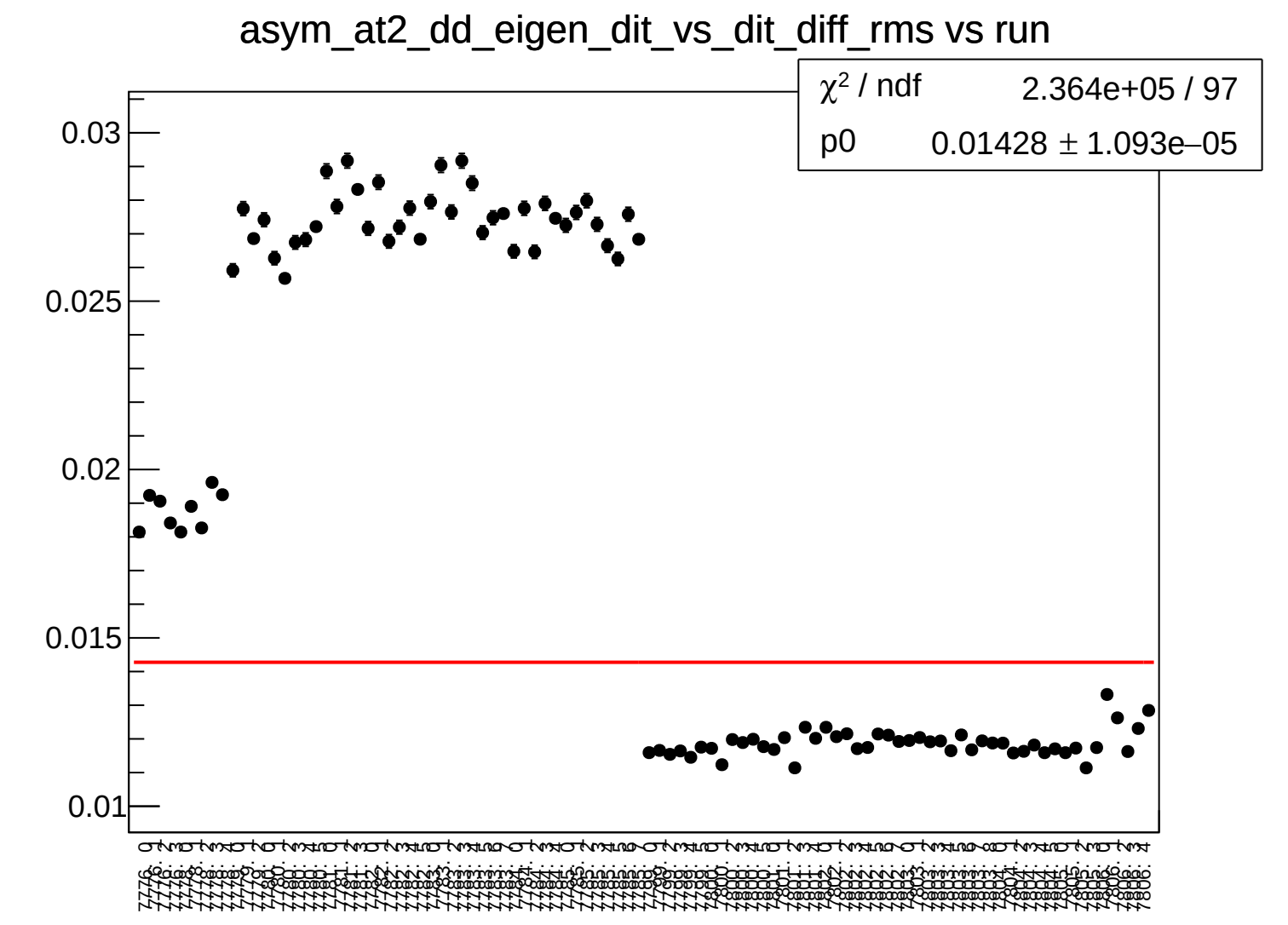

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.56e+05 / 97
p0 97.9 ± 0.07538
300
250
200
150
100
50

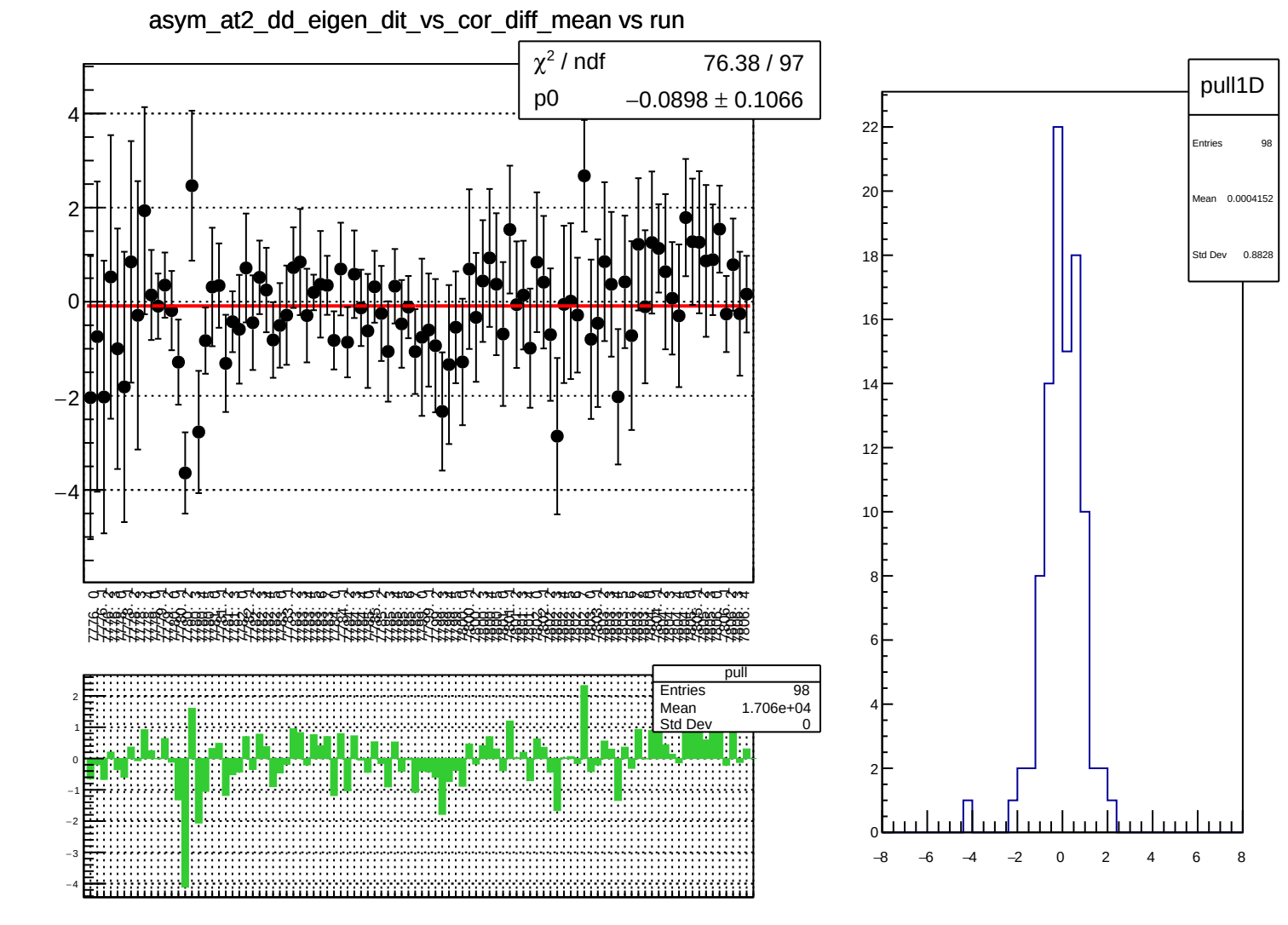

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.39 / 97
p0 −0.08982 ± 0.1066
pull
Entries 98
Mean 1.706e+04
Std Dev 0

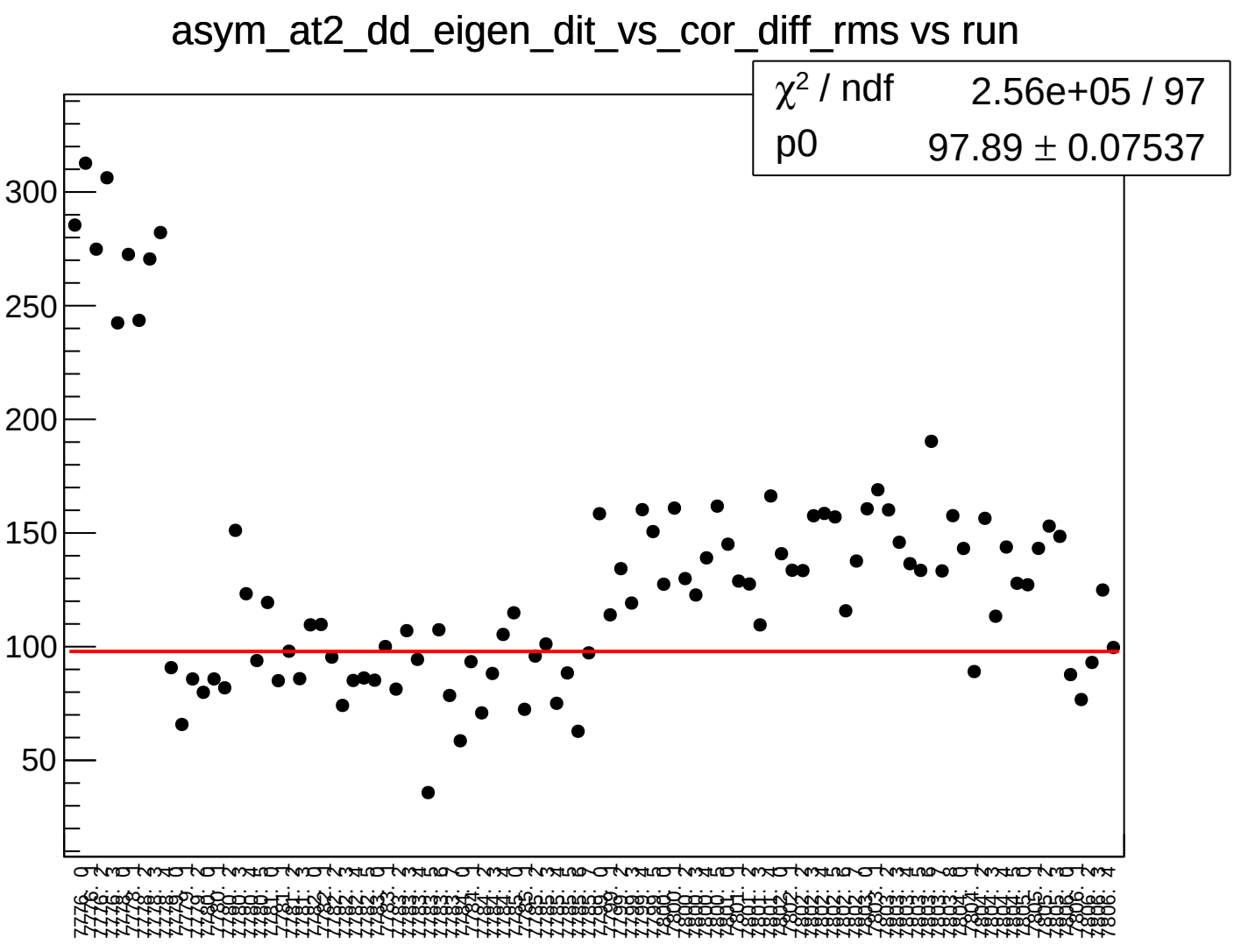

pull1D
Entries 98
Mean 0.0004153
Std Dev 0.8829

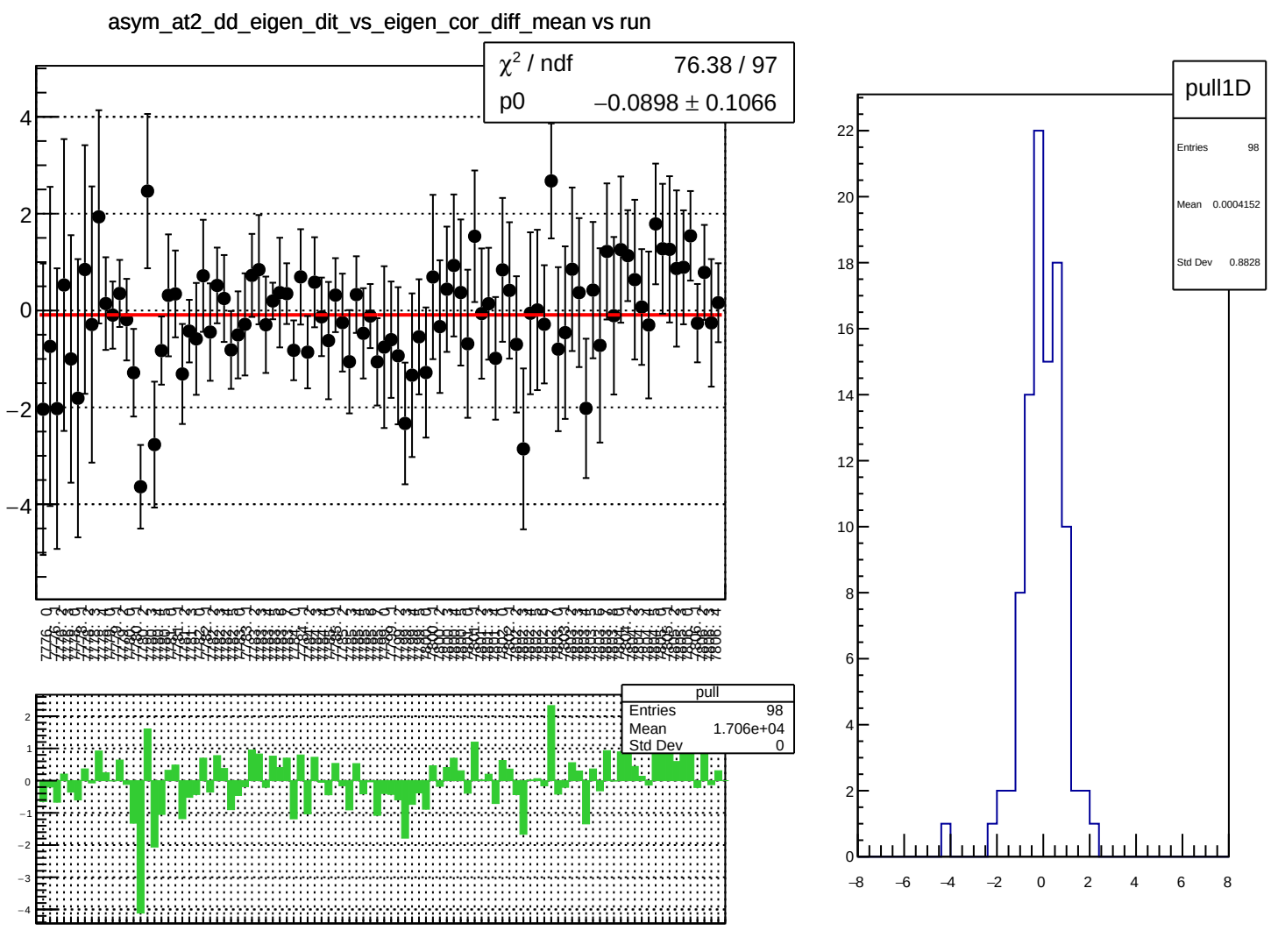

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.56e+05 / 97
p0 97.9 ± 0.07538
300
250
200
150
100
50

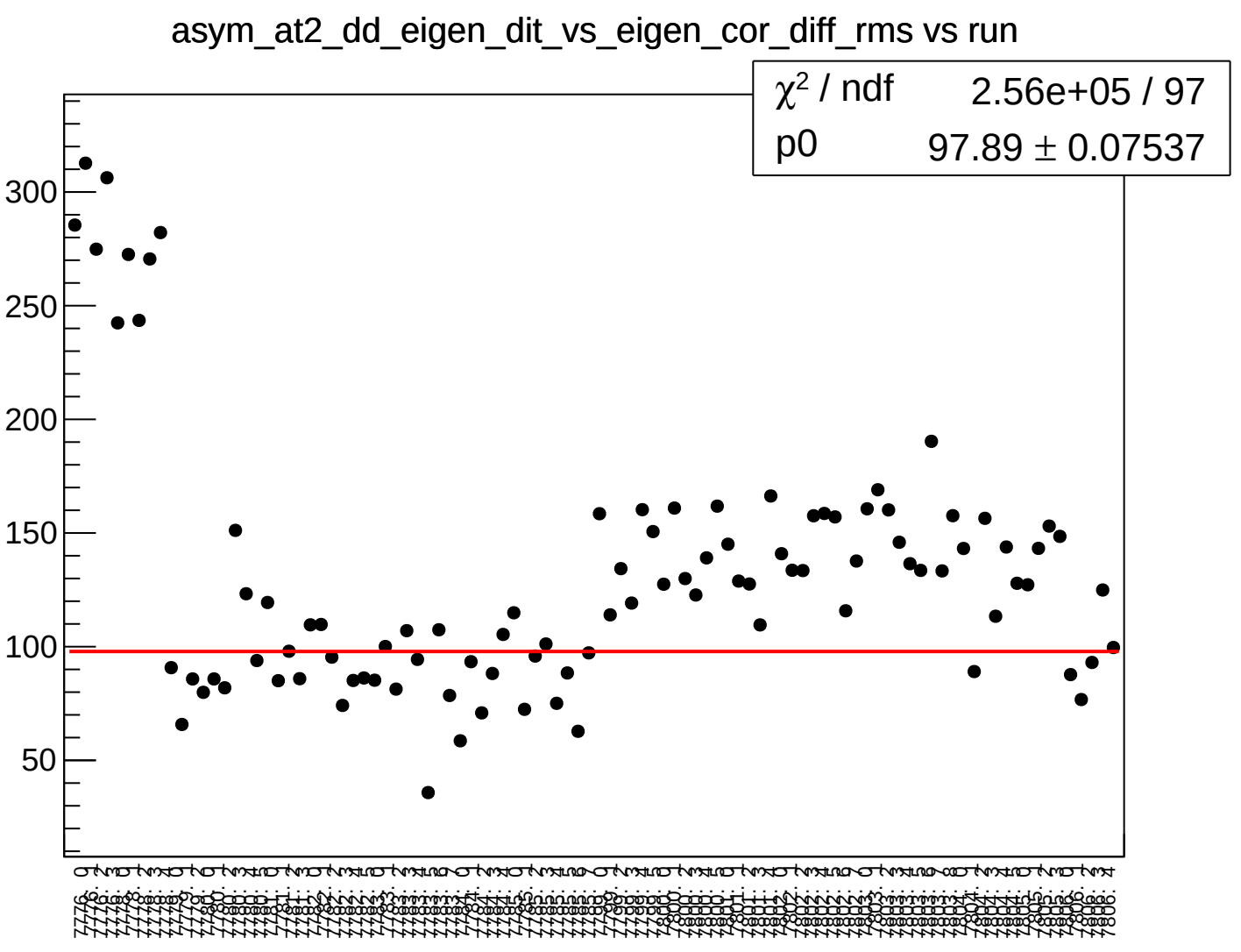

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.47 / 97
p0 1.103e−05 ± 1.545e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 98
Mean 133.6
Std Dev 0
pull1D
Entries 98
Mean 0.01051
Std Dev 0.9283
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

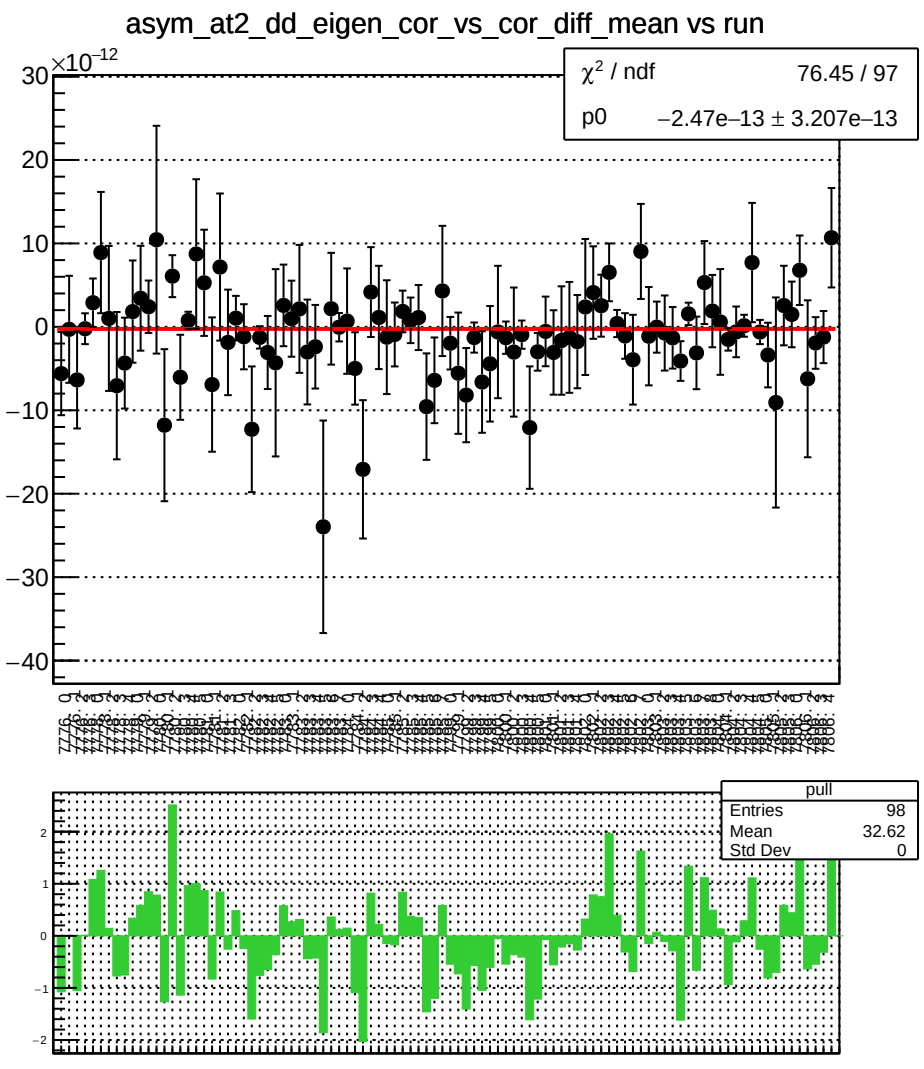

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.364e+05 / 97
p0 0.01428 ± 1.093e–05
0.03
0.025
0.02
0.015
0.01

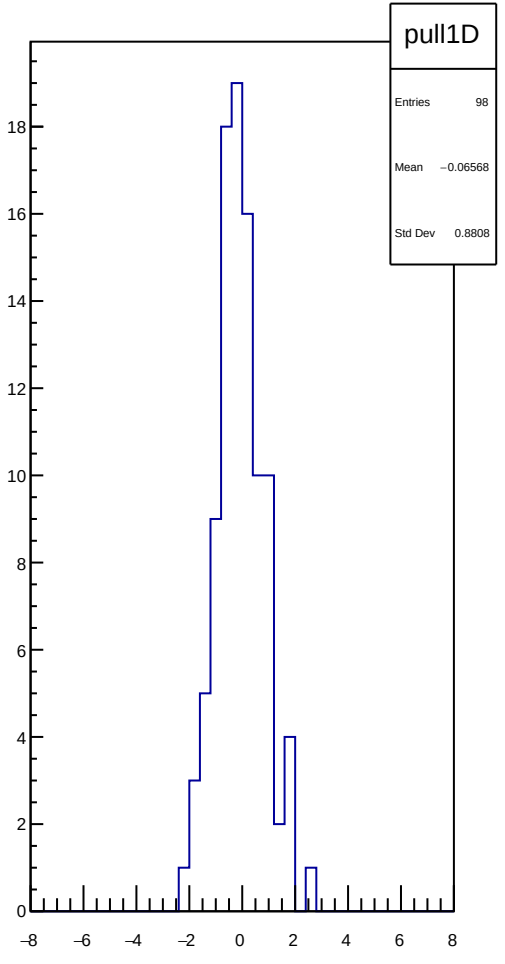

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.38 / 97
p0 −0.0898 ± 0.1066
pull
Entries 98
Mean 1.706e+04
Std Dev 0
pull1D
Entries 98
Mean 0.0004152
Std Dev 0.8828

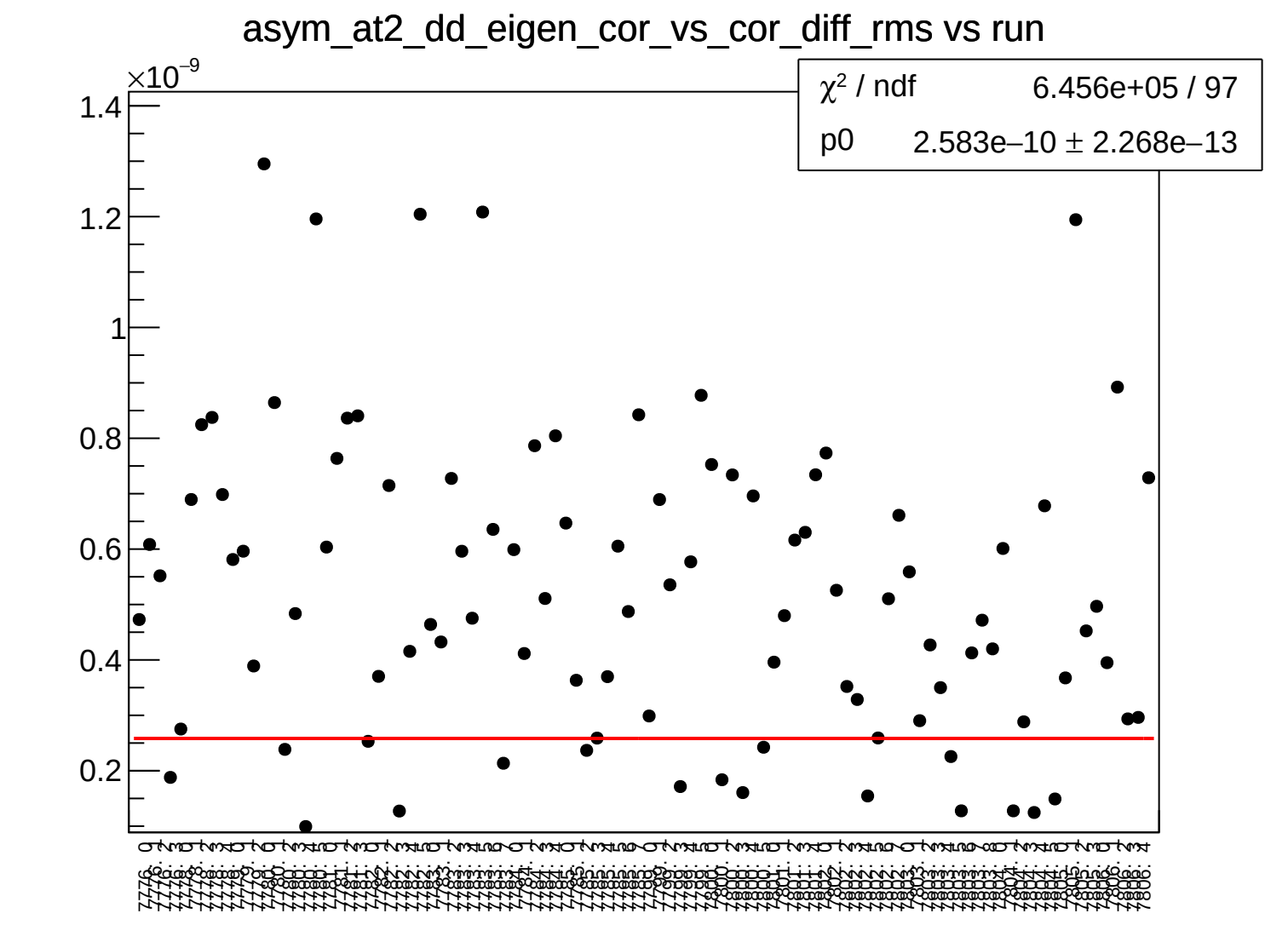

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.56e+05 / 97
p0 97.89 ± 0.07537
300
250
200
150
100
50

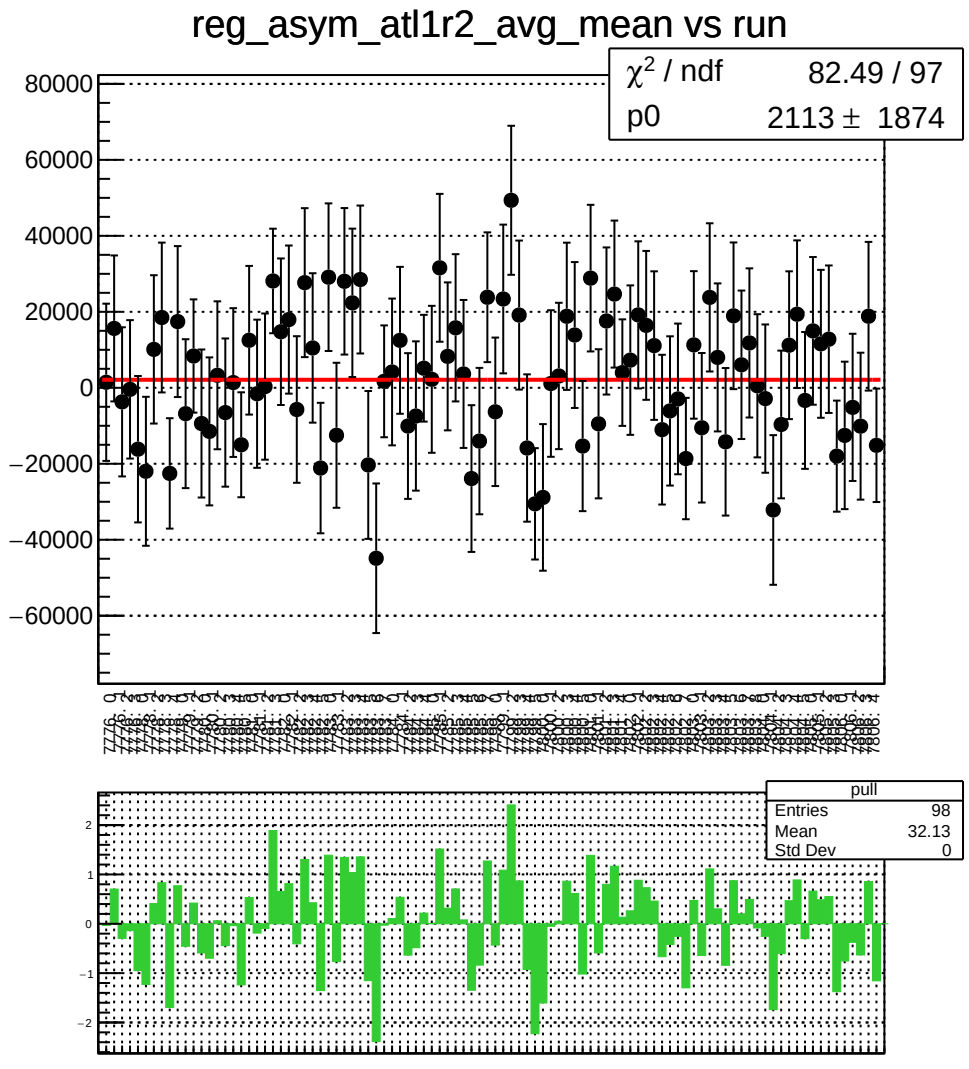

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.38 / 97
p0 −0.0898 ± 0.1066
pull
Entries 98
Mean 1.706e+04
Std Dev 0
pull1D
Entries 98
Mean 0.0004152
Std Dev 0.8828

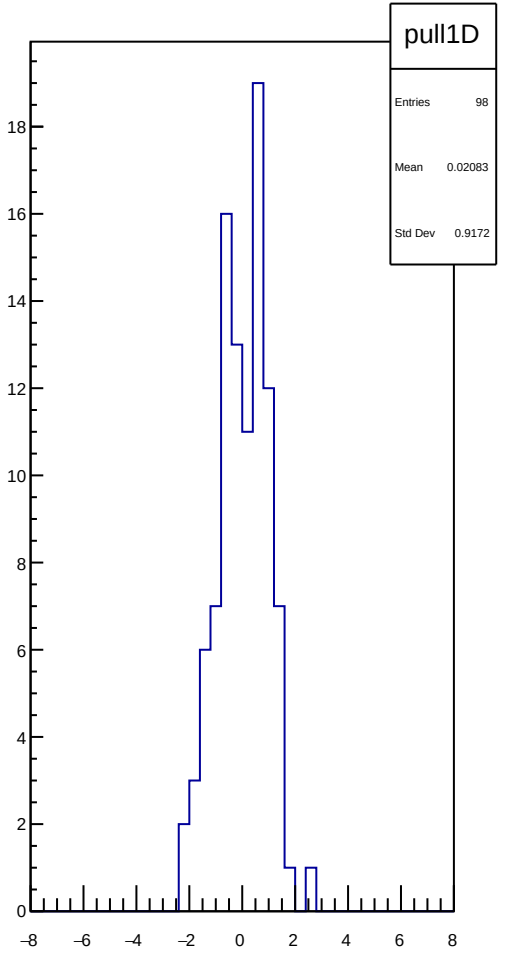

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.56e+05 / 97
p0 97.89 ± 0.07537
300
250
200
150
100
50

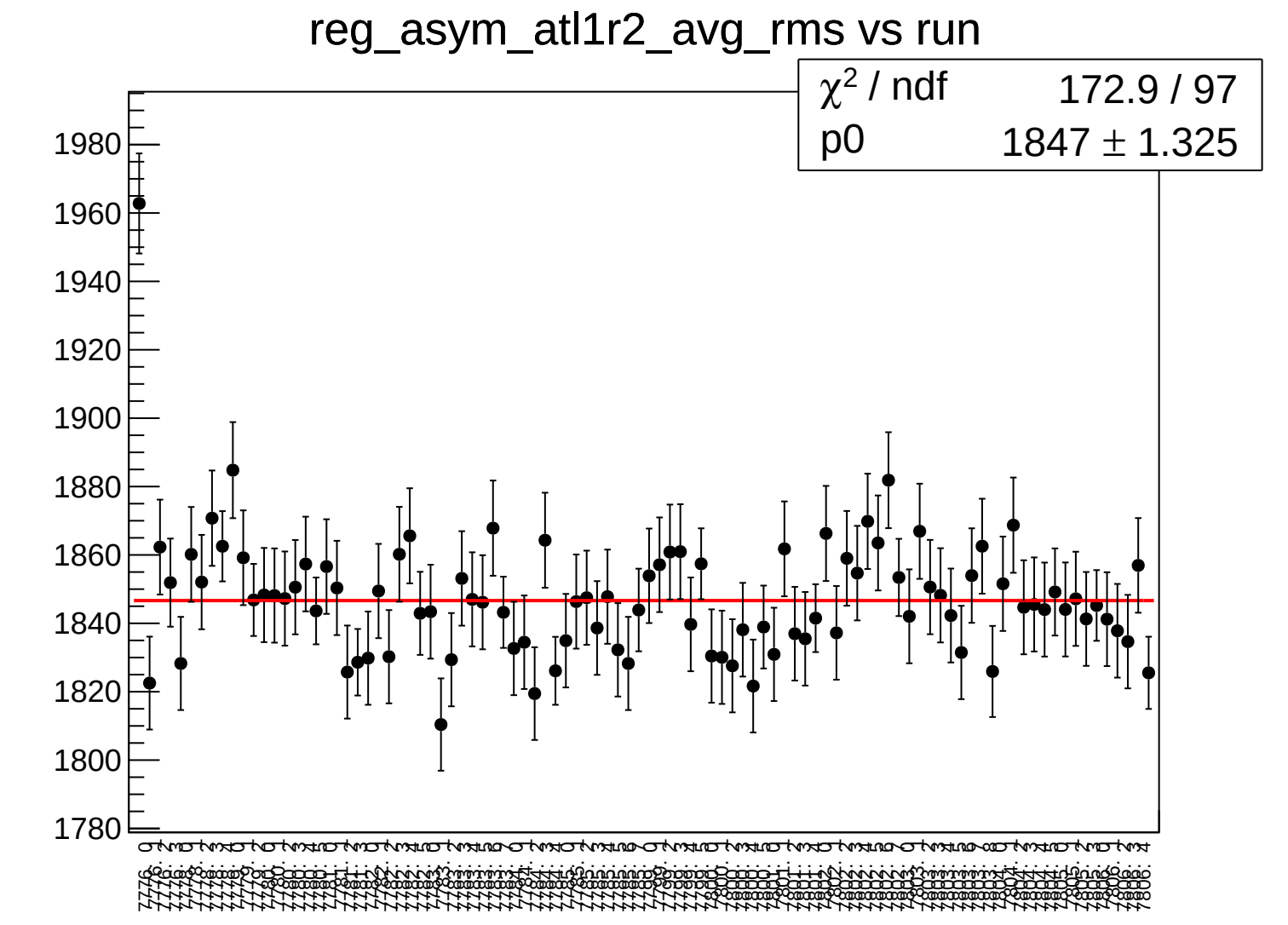

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.45 / 97
p0 −2.47e−13 ± 3.207e−13
pull
Entries 98
Mean 32.62
Std Dev 0

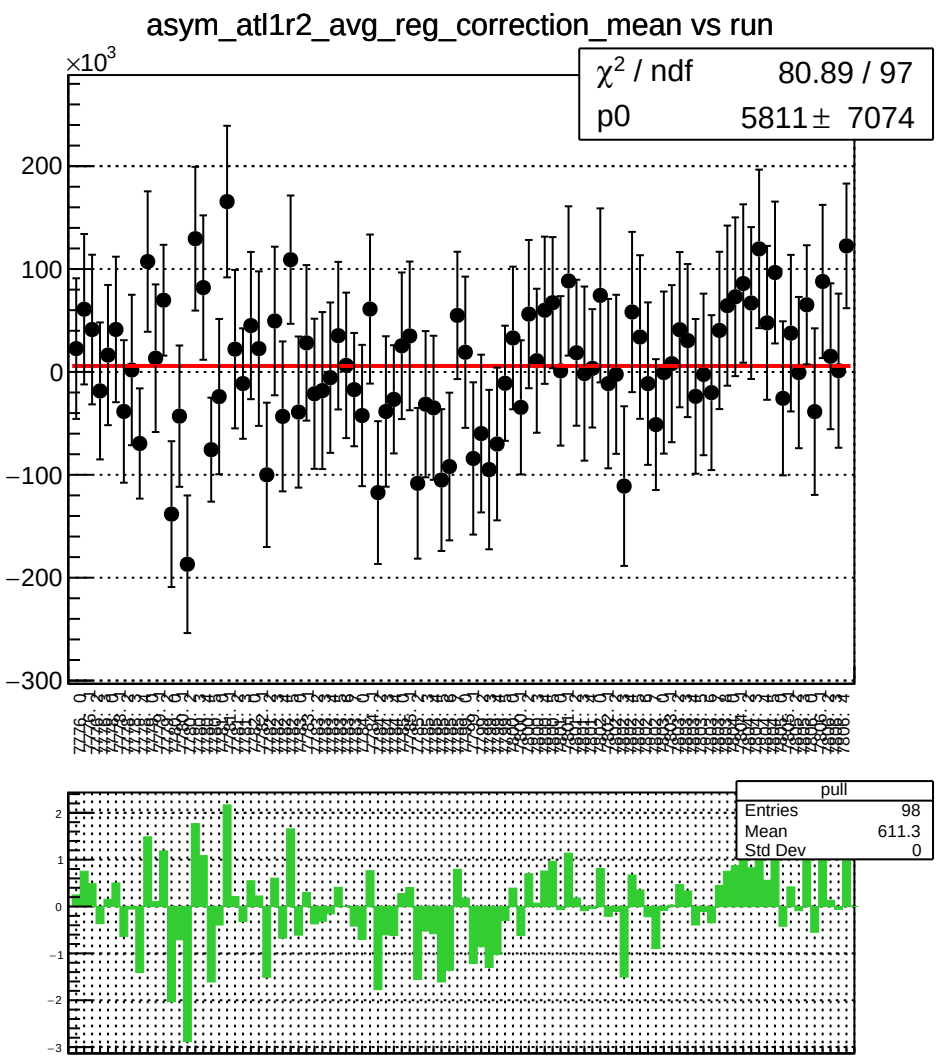

pull1D
Entries 98
Mean −0.06568
Std Dev 0.8808

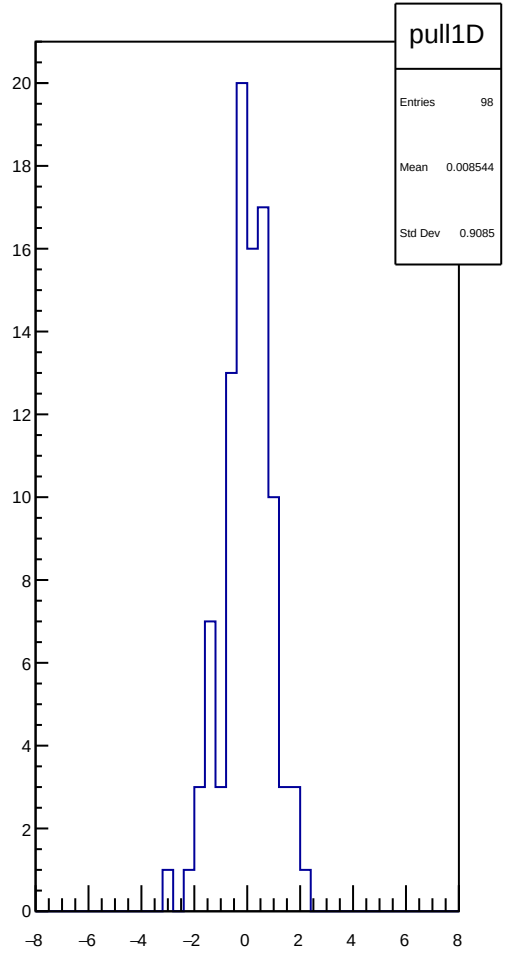

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.456e+05 / 97
p0 2.583e−10 ± 2.268e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

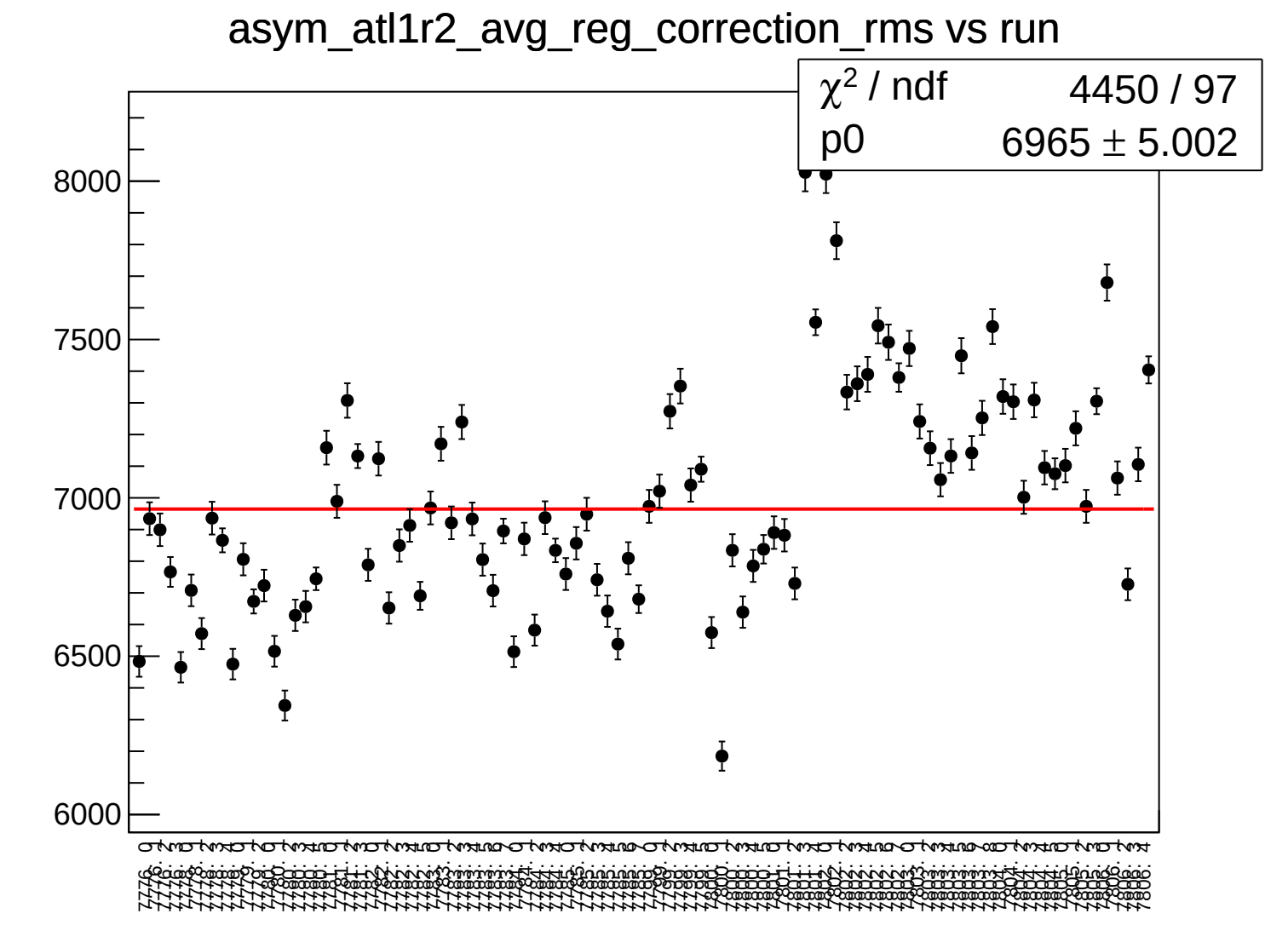

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 82.49 / 97
p0 2113 ± 1874
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 32.13
Std Dev 0
2
1
0
−1
−2

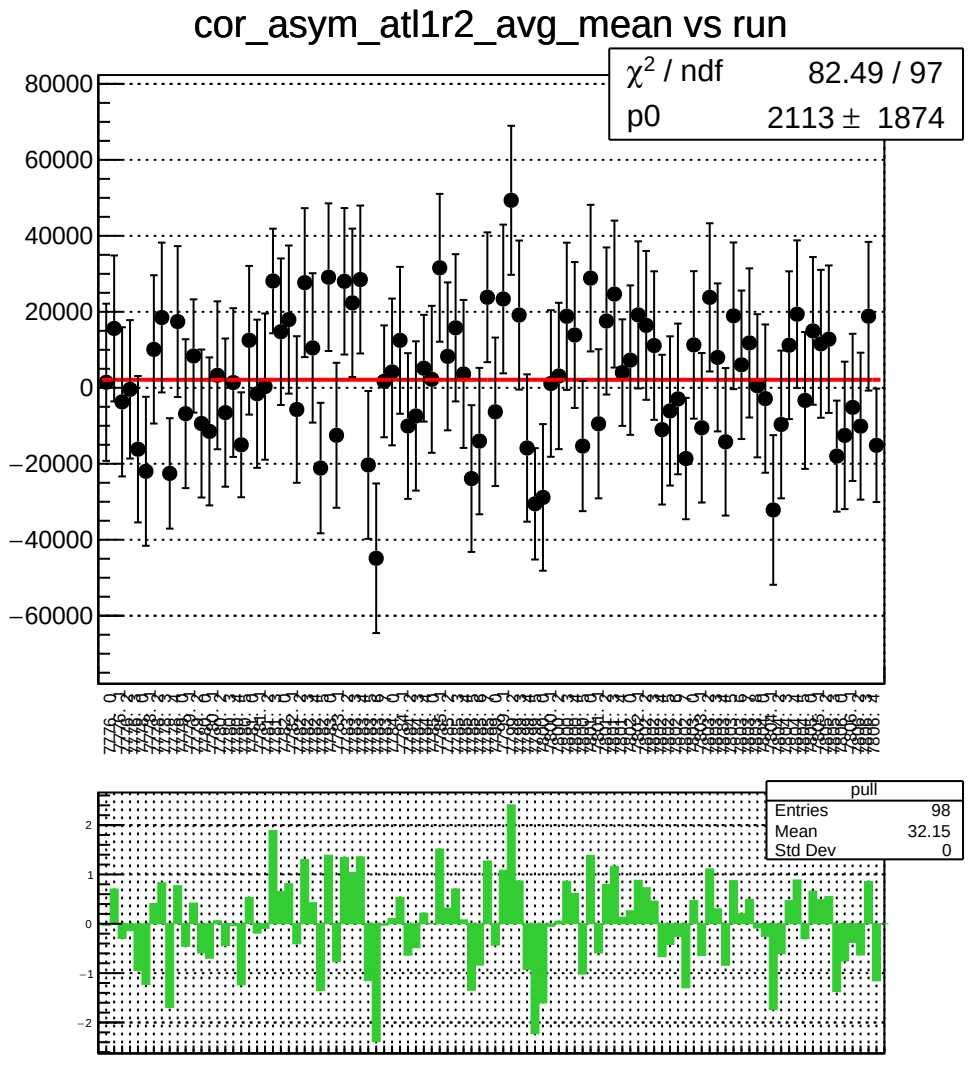

pull1D
Entries 98
Mean 0.02083
Std Dev 0.9172
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

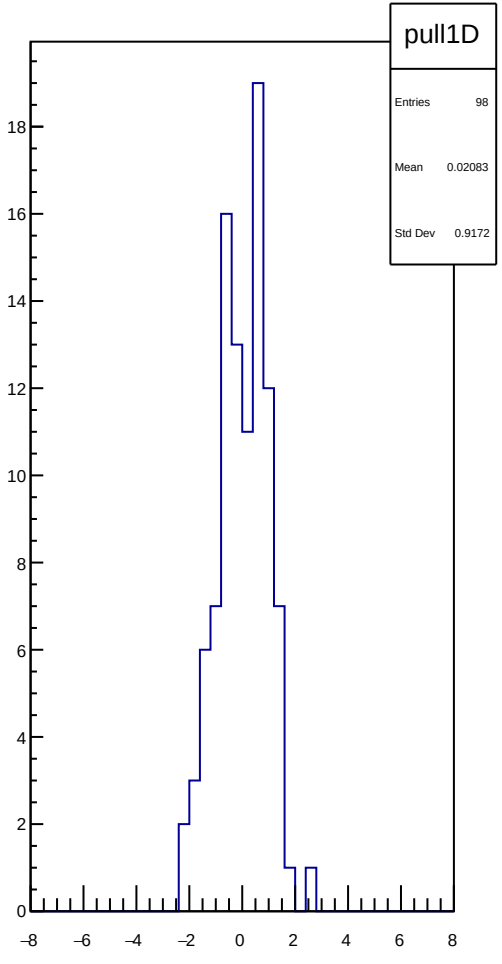

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 172.9 / 97
p0 1847 ± 1.325
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

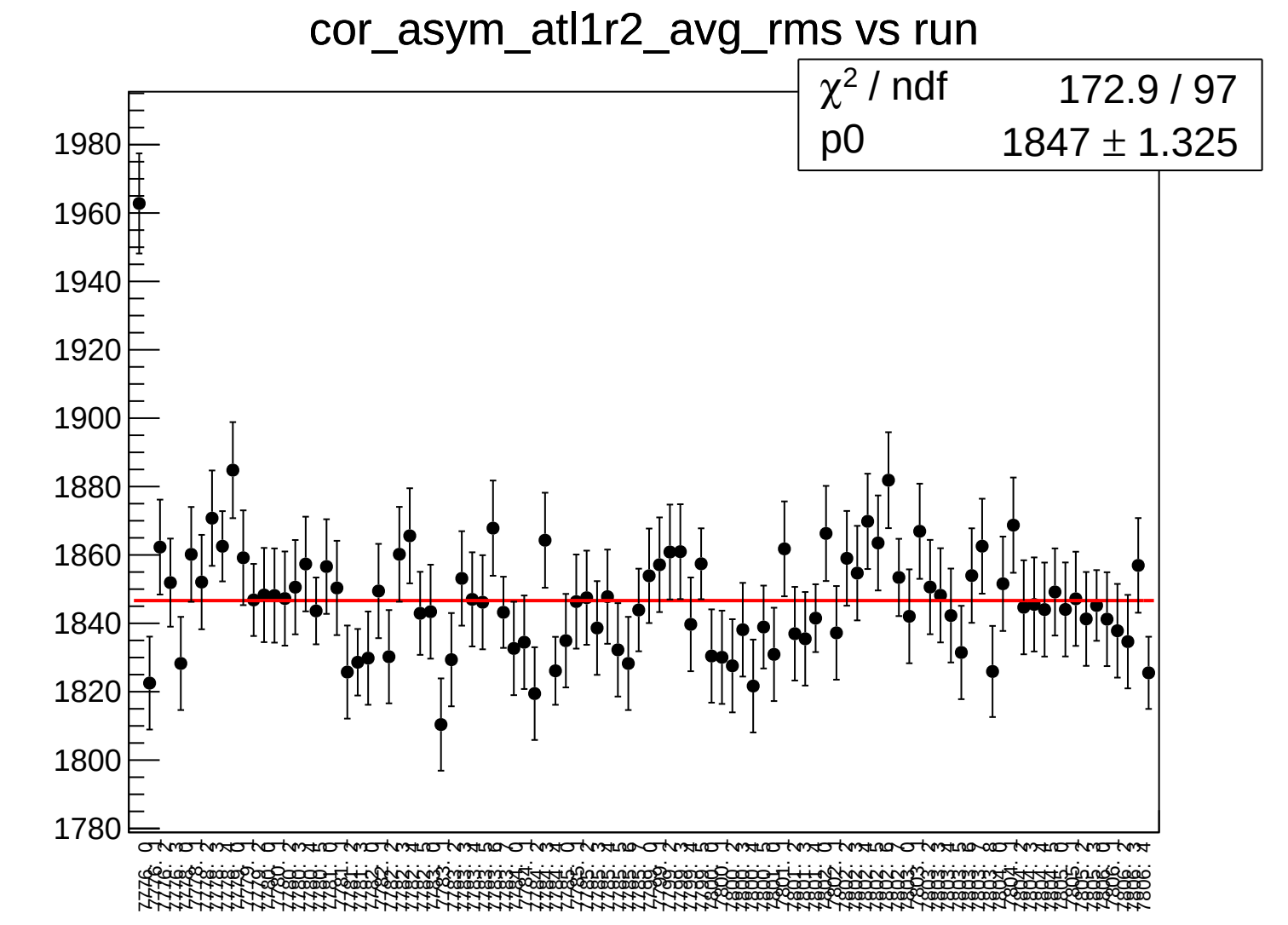

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 80.89 / 97
p0 5811 ± 7074
200
100
0
−100
−200
−300
pull
Entries 98
Mean 611.3
Std Dev 0
2
1
0
−1
−2
−3

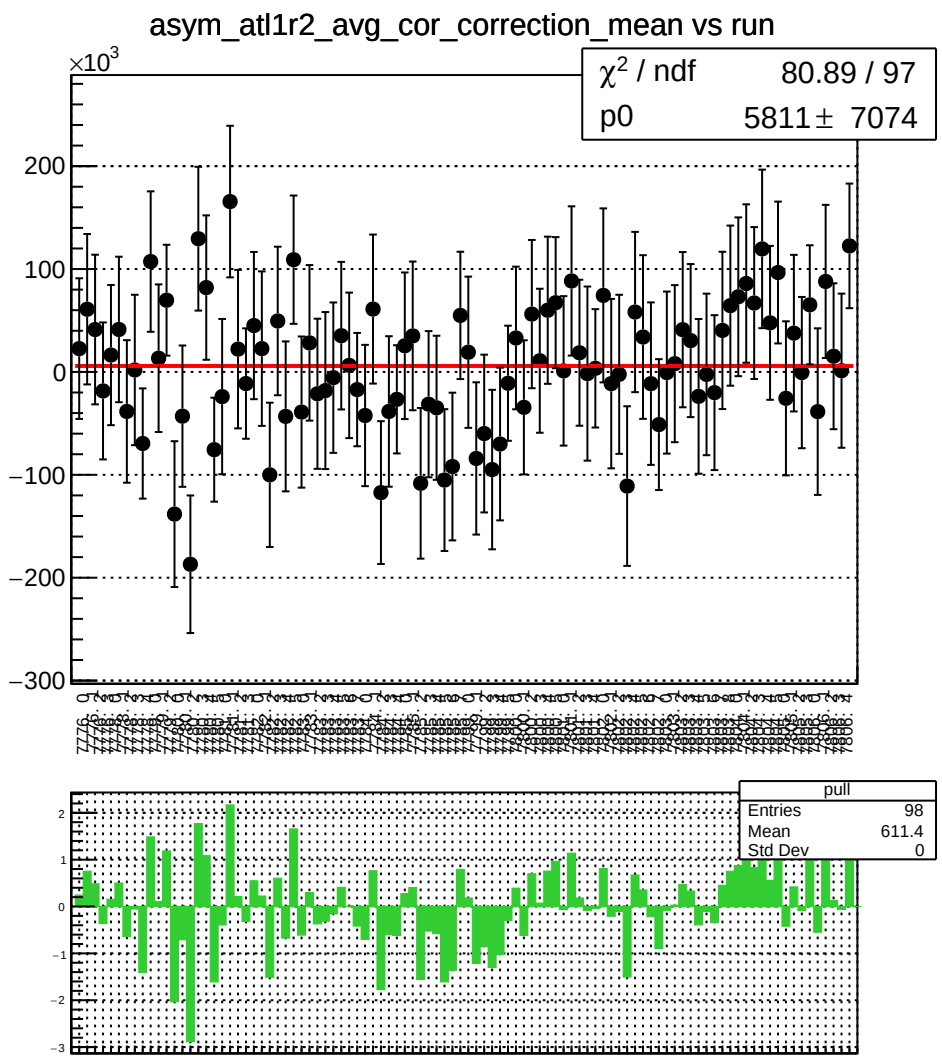

pull1D
Entries 98
Mean 0.008544
Std Dev 0.9085
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

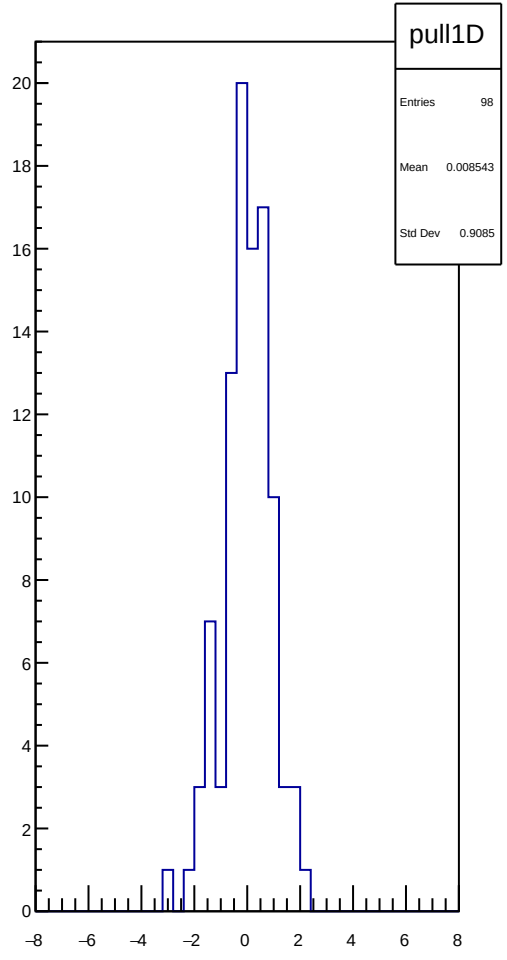

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 4450 / 97
p0 6965 ± 5.002
8000
7500
7000
6500
6000

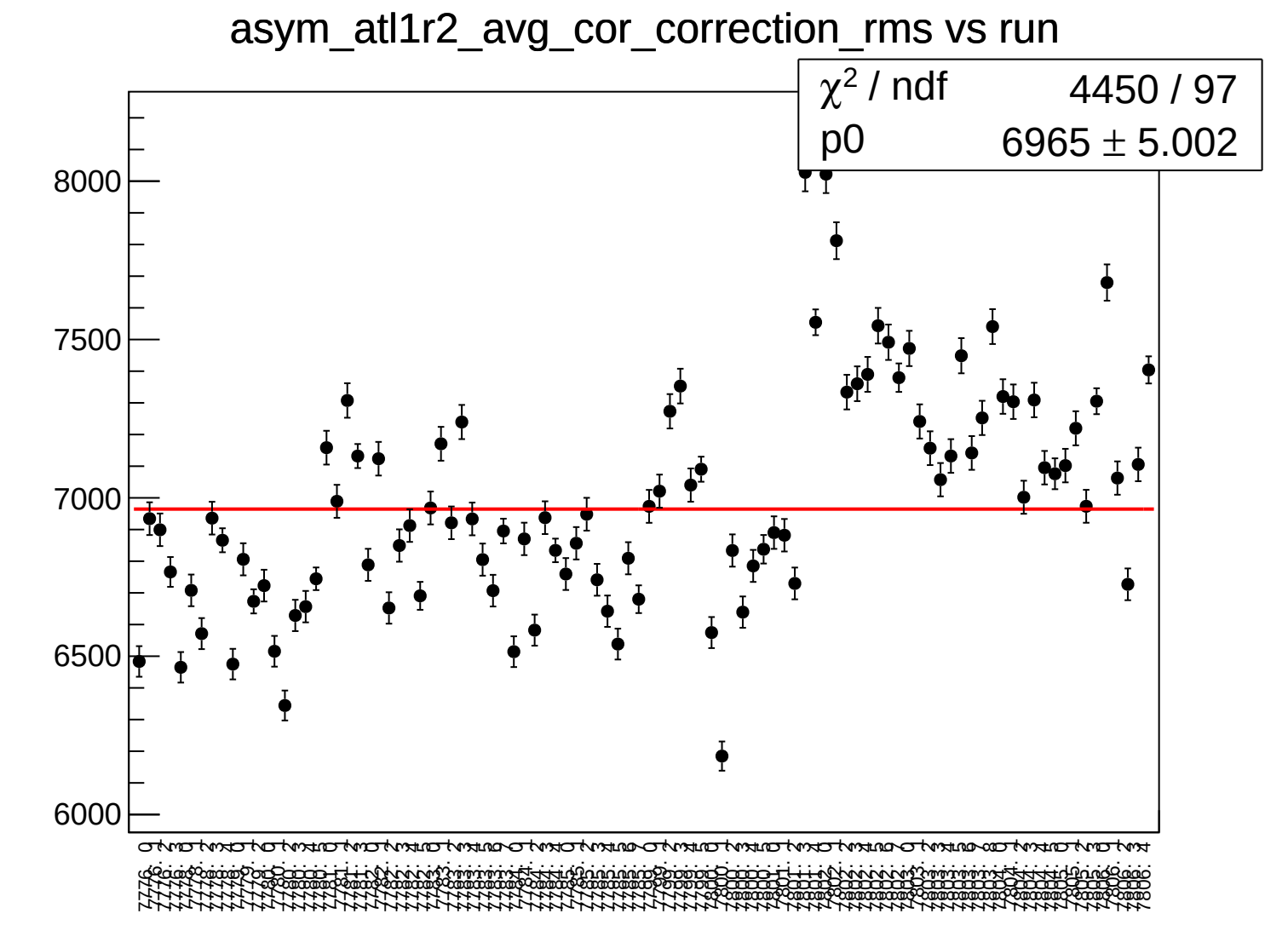

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 82.49 / 97
p0 2113 ± 1874
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 32.15
Std Dev 0
2
1
0
−1
−2

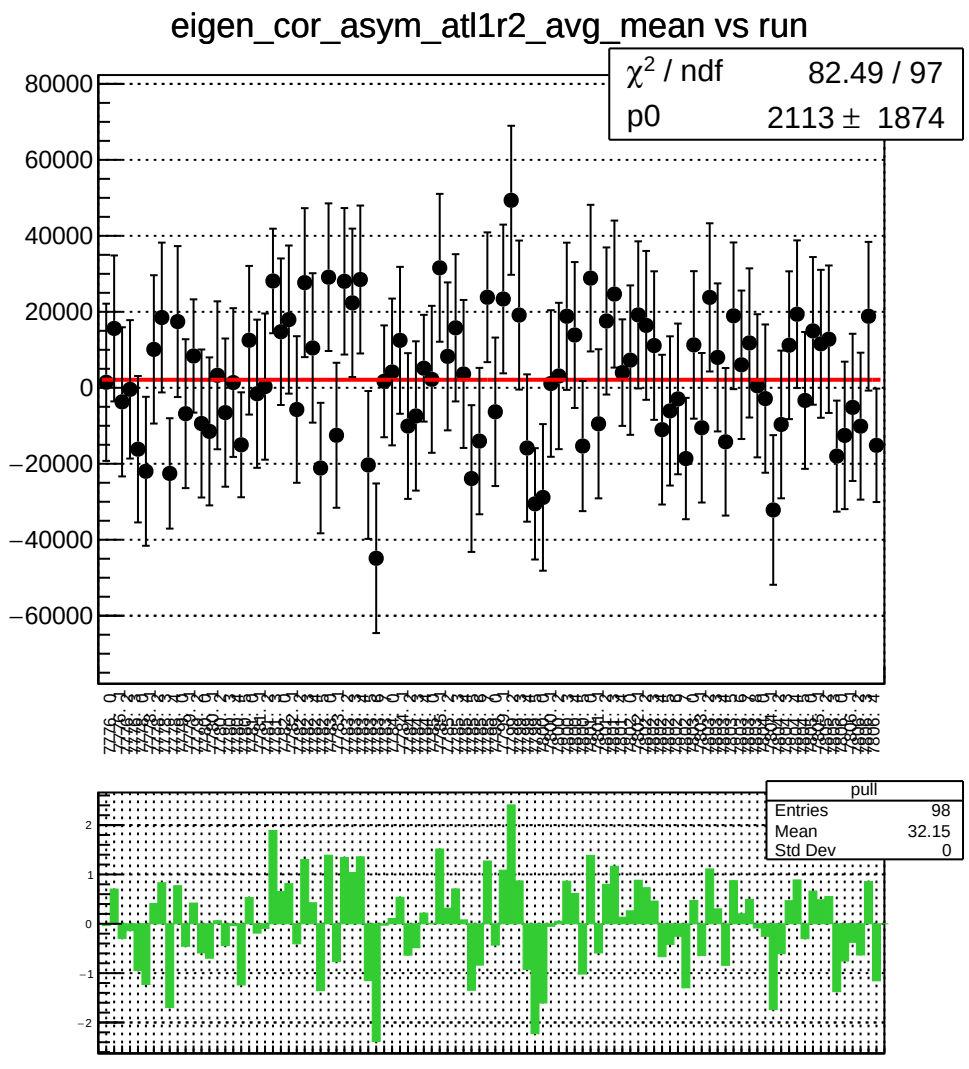

pull1D
Entries 98
Mean 0.02083
Std Dev 0.9172
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

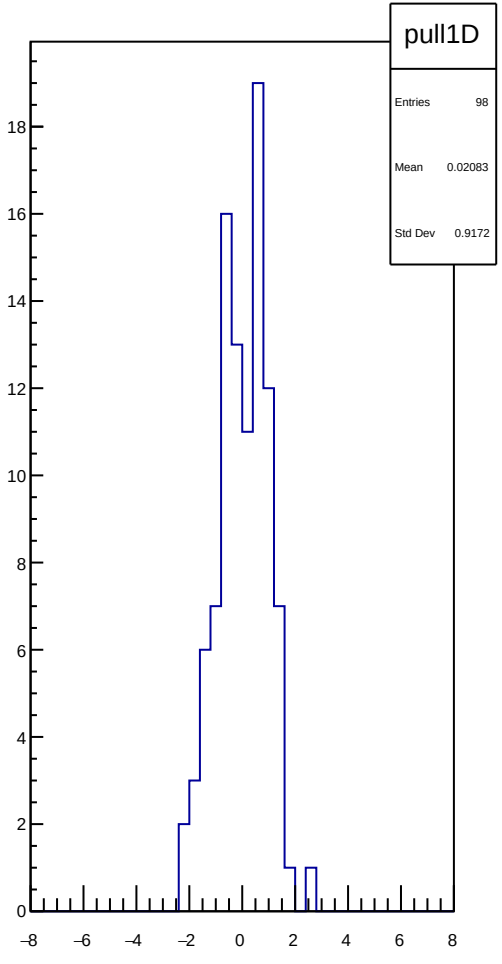

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 172.9 / 97
p0 1847 ± 1.325
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

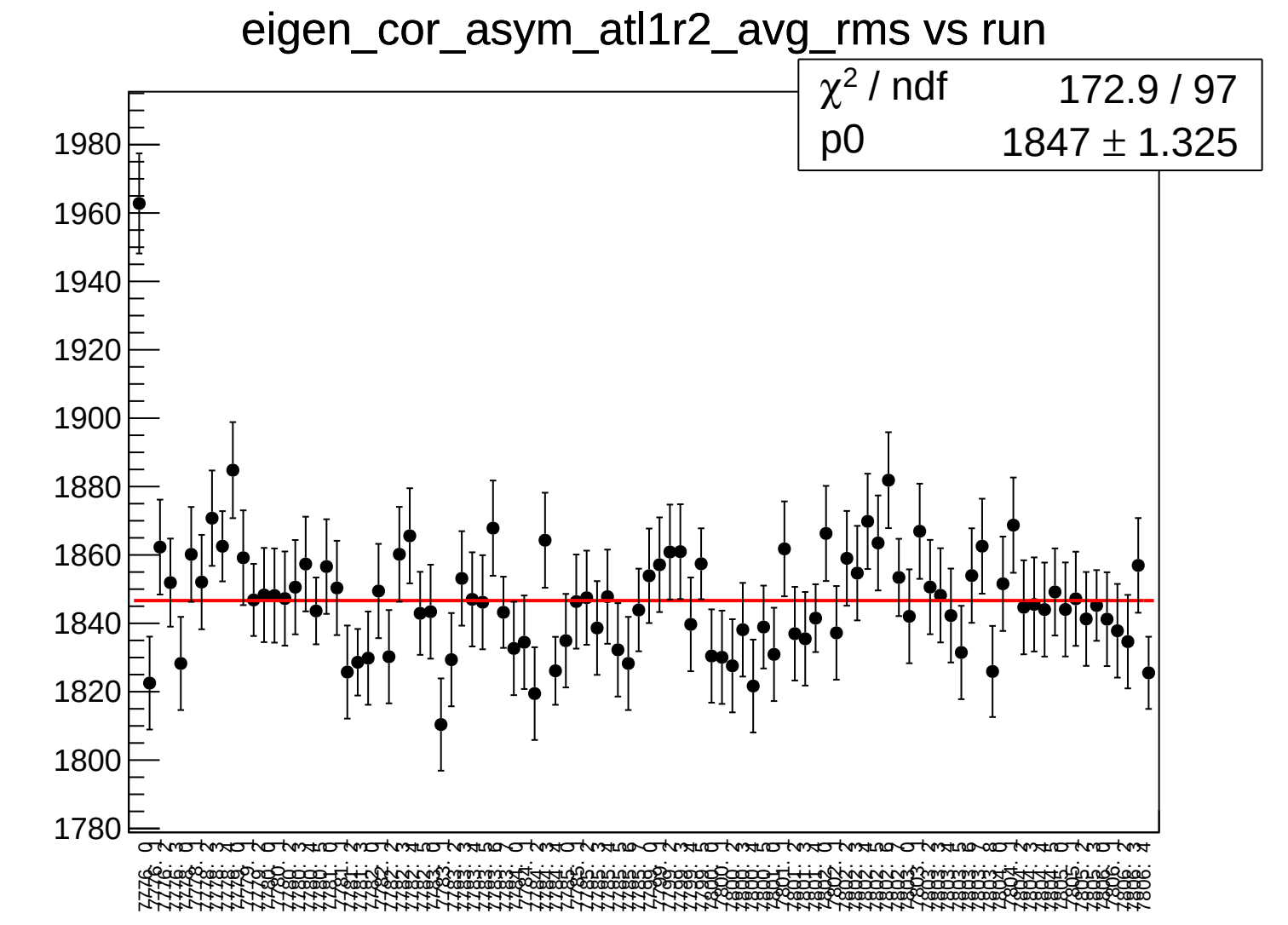

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 80.89 / 97
p0 5811 ± 7074
200
100
0
−100
−200
−300
pull
Entries 98
Mean 611.4
Std Dev 0
2
1
0
−1
−2
−3

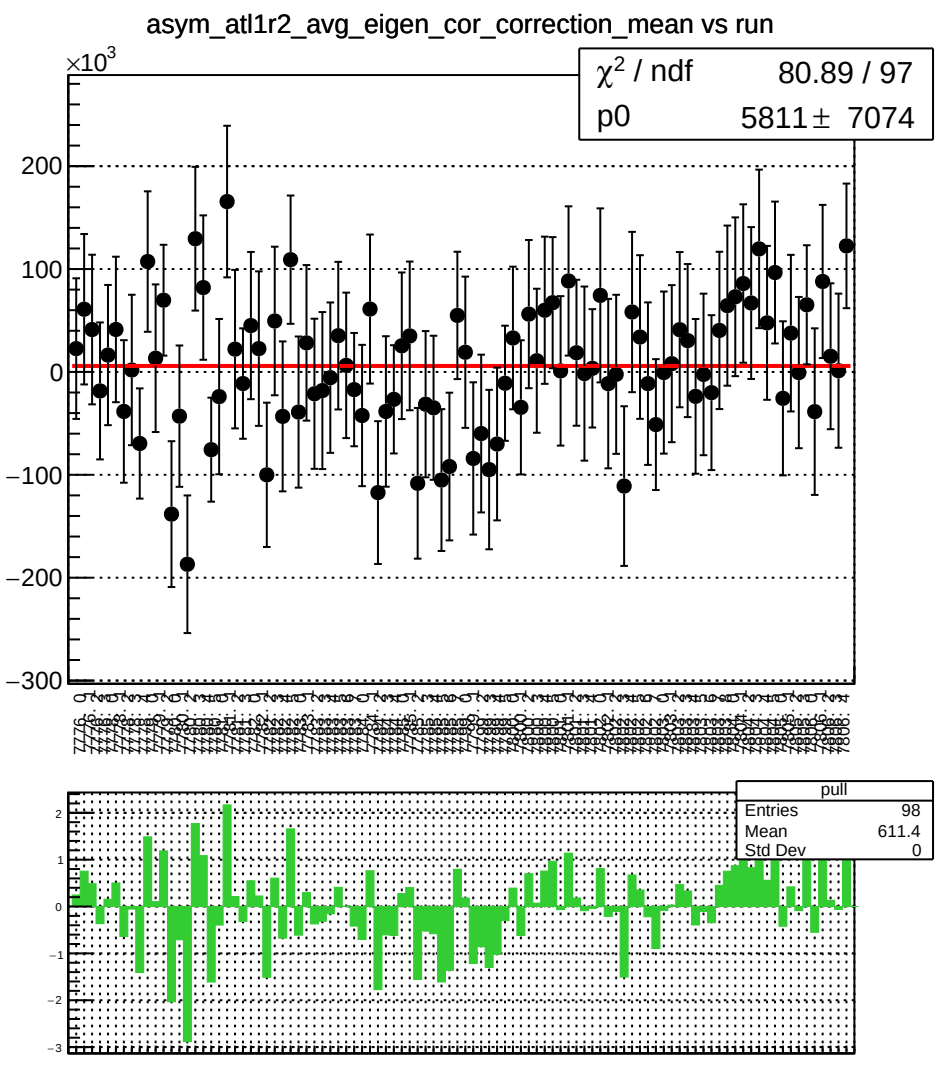

pull1D
Entries 98
Mean 0.008543
Std Dev 0.9085
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

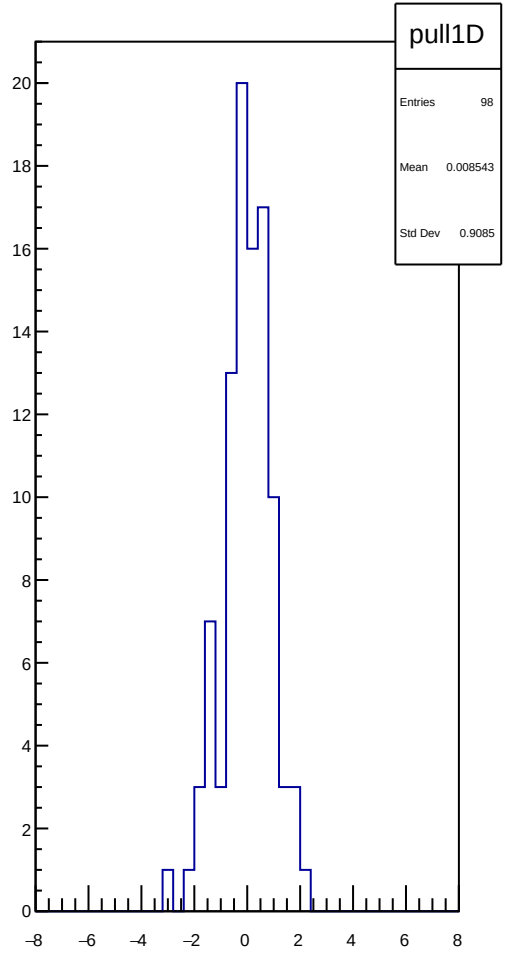

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 4450 / 97
p0 6965 ± 5.002
8000
7500
7000
6500
6000

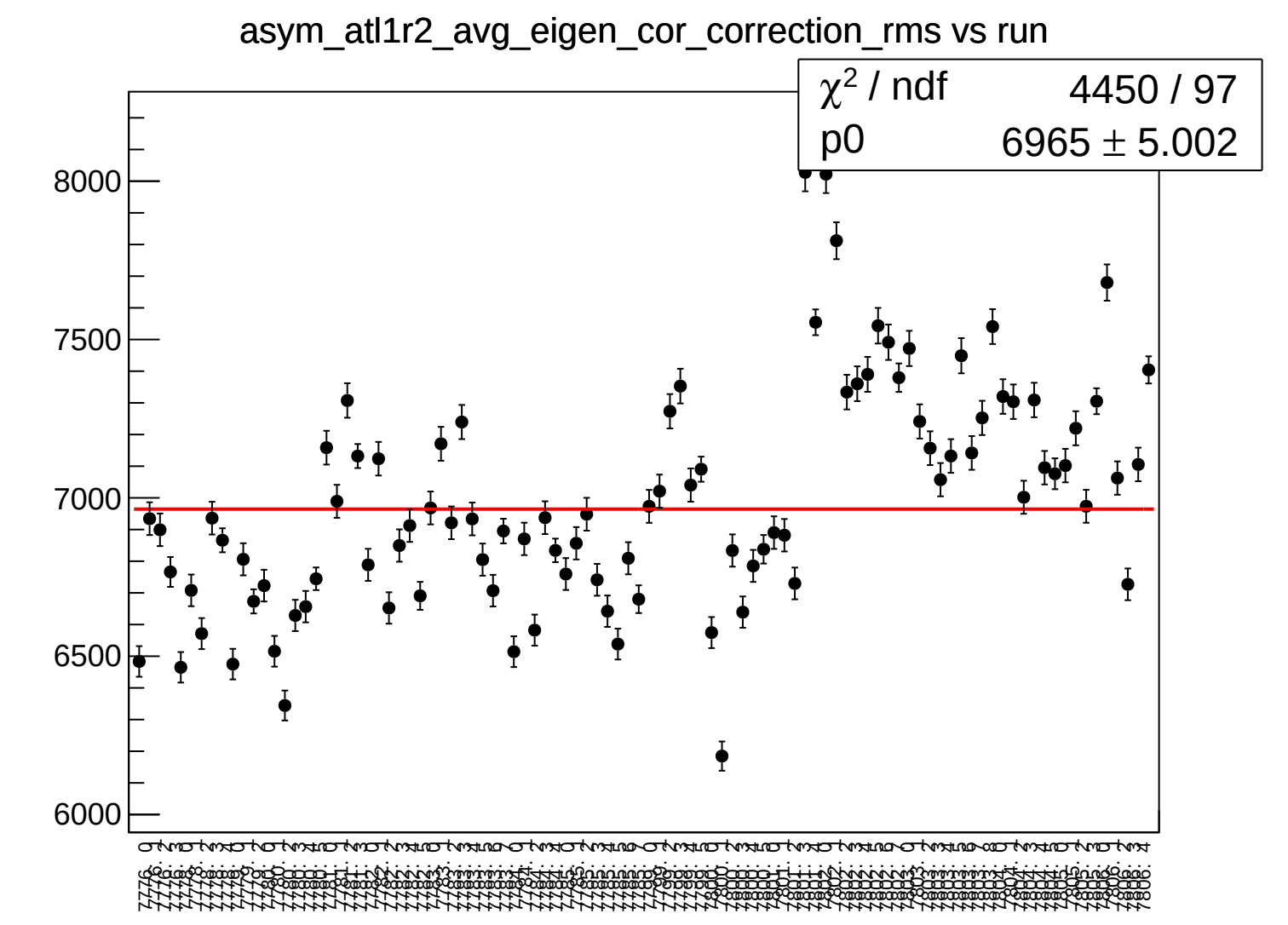

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 82.49 / 97
p0 2113 ± 1874
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 32.15
Std Dev 0
2
1
0
−1
−2

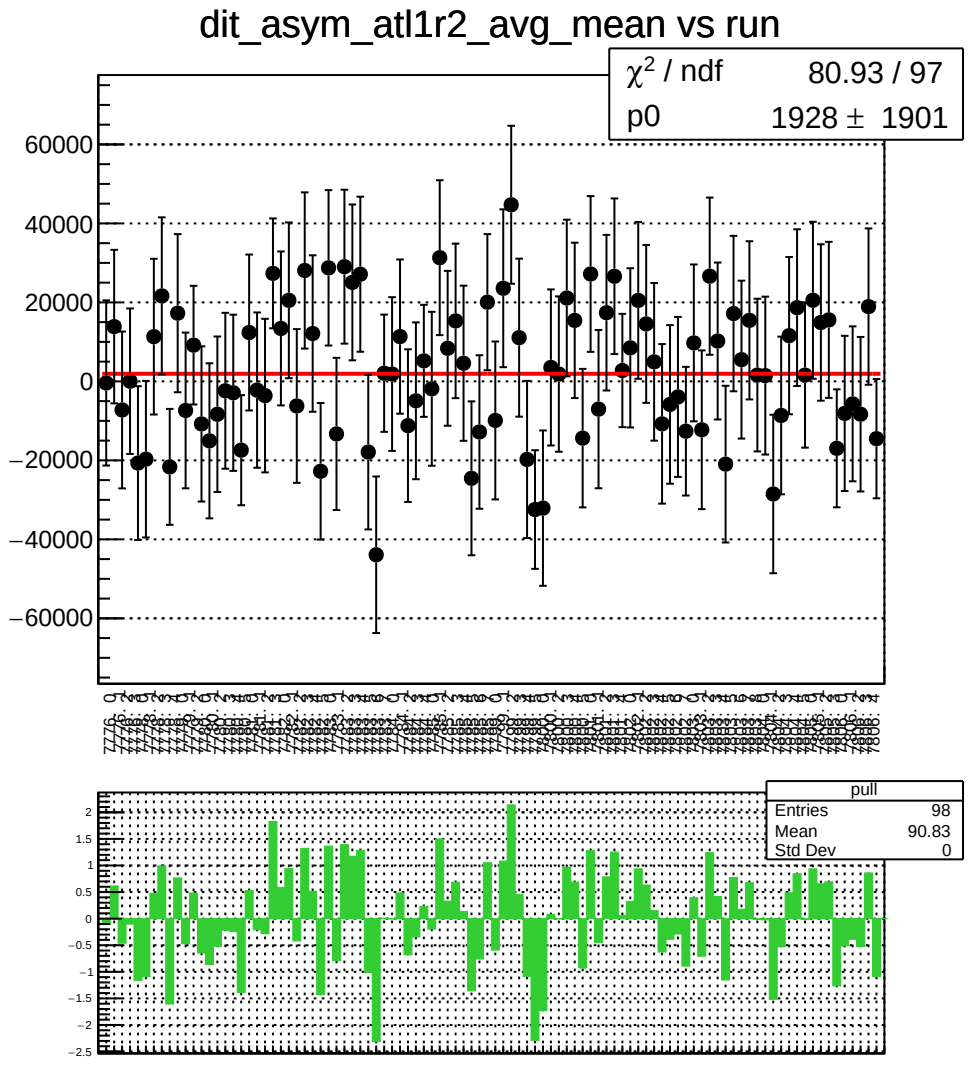

pull1D
Entries 98
Mean 0.02083
Std Dev 0.9172
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

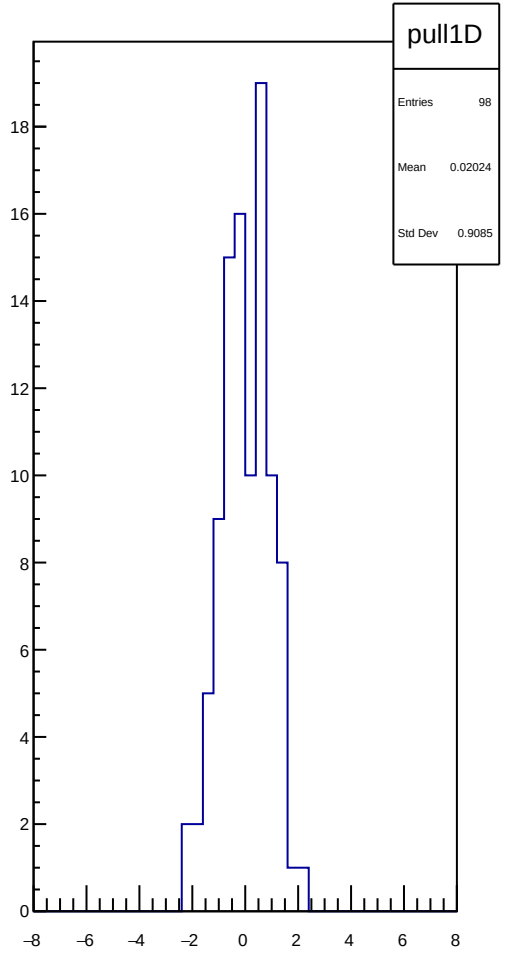

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 172.9 / 97
p0 1847 ± 1.325
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

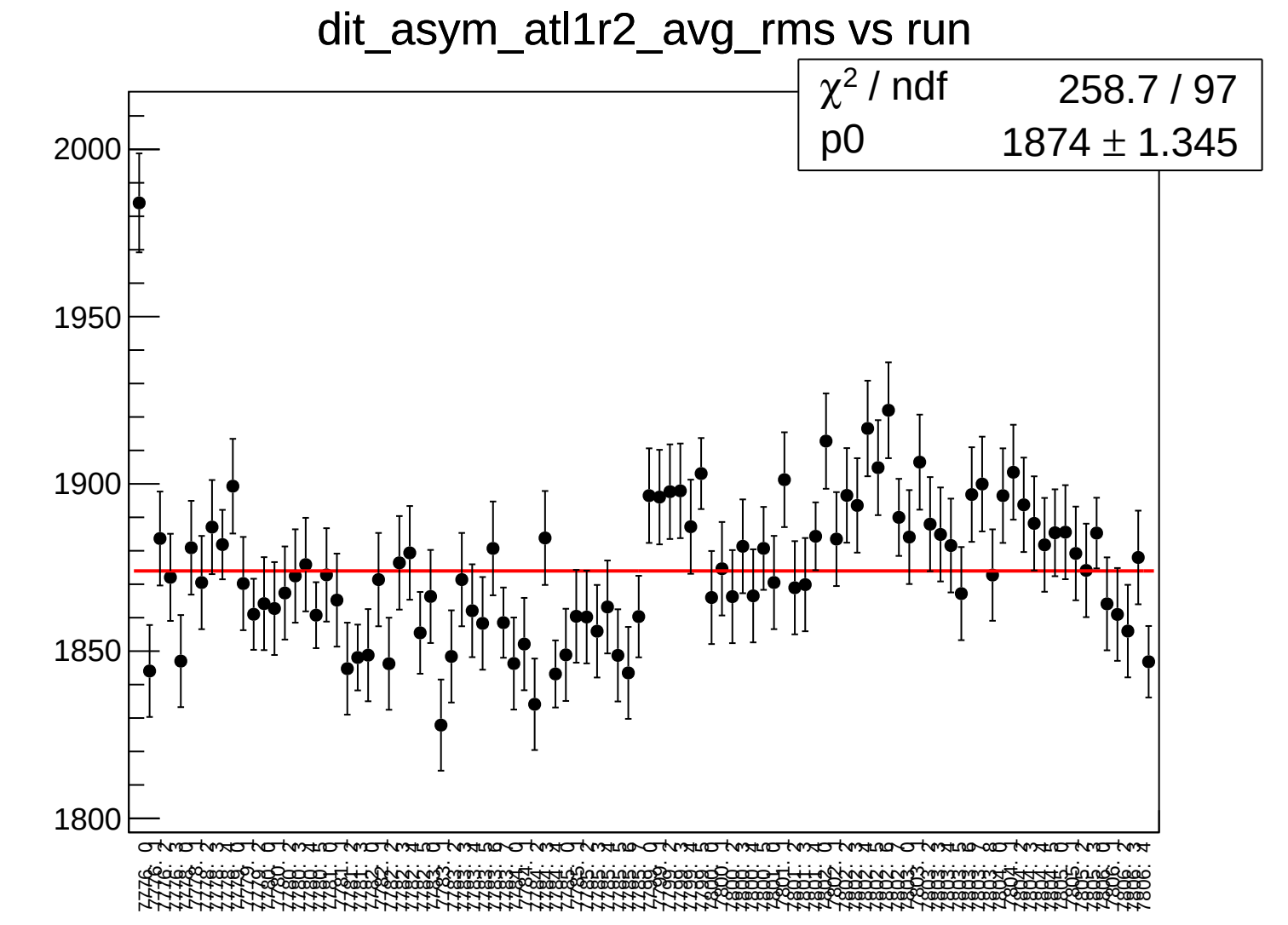

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 80.89 / 97
p0 5811 ± 7074
200
100
0
−100
−200
−300
pull
Entries 98
Mean 611.4
Std Dev 0
2
1
0
−1
−2
−3

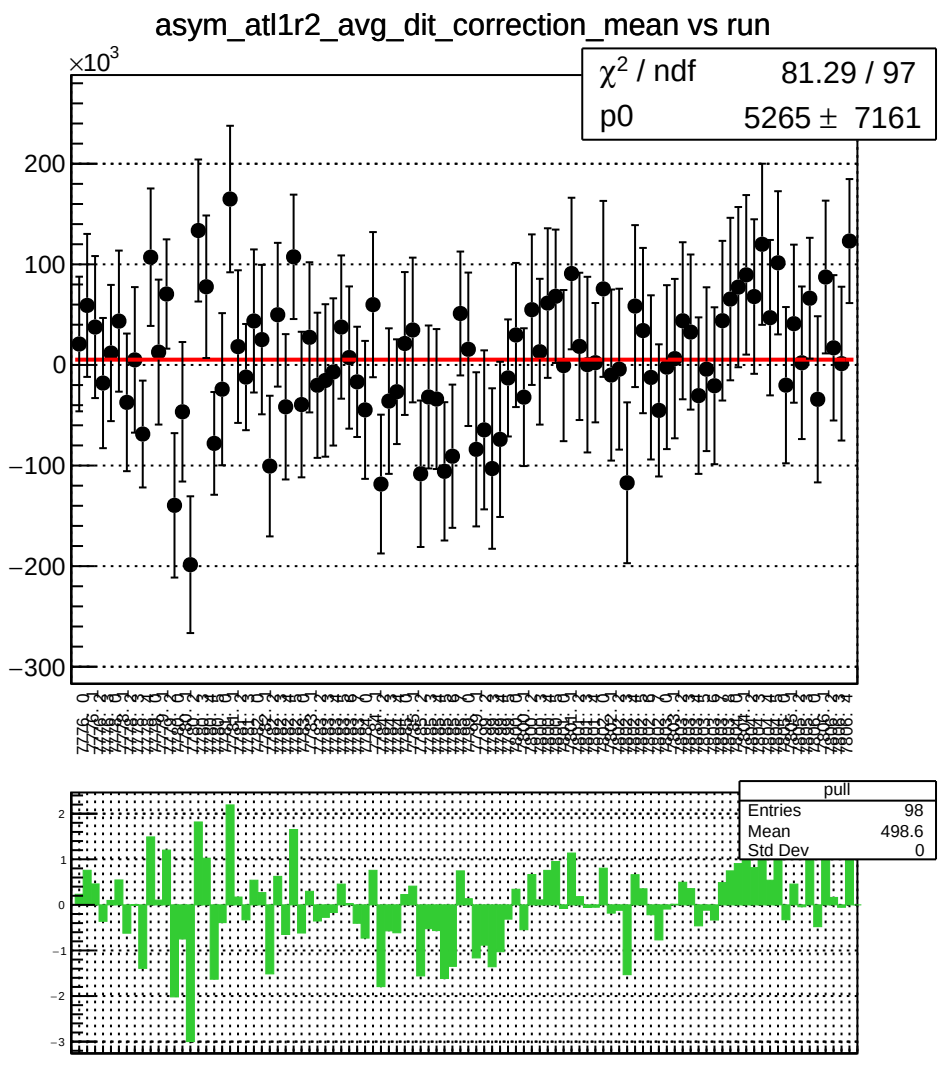

pull1D
Entries 98
Mean 0.008543
Std Dev 0.9085
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

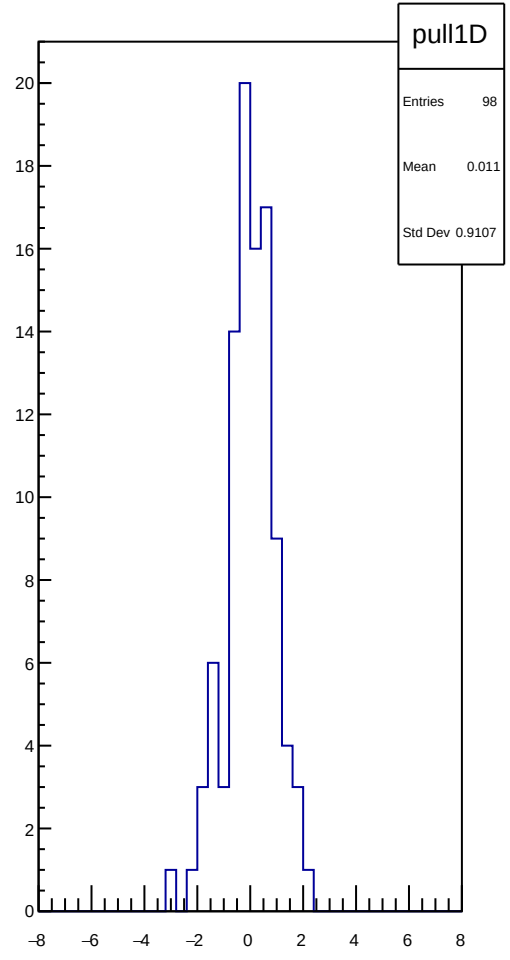

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4450 / 97
p0 6965 ± 5.002
8000
7500
7000
6500
6000

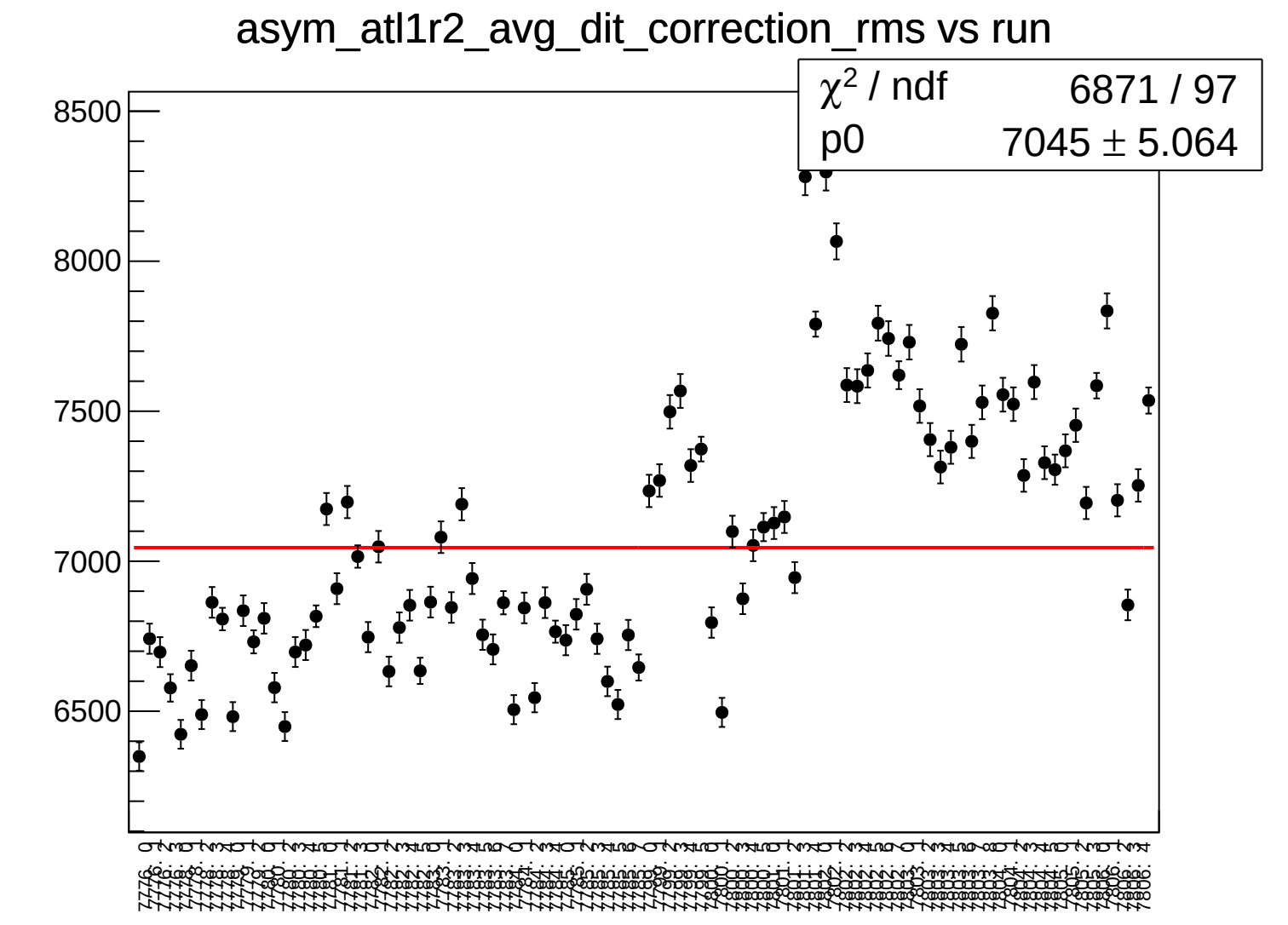

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 80.93 / 97
p0 1928 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 90.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

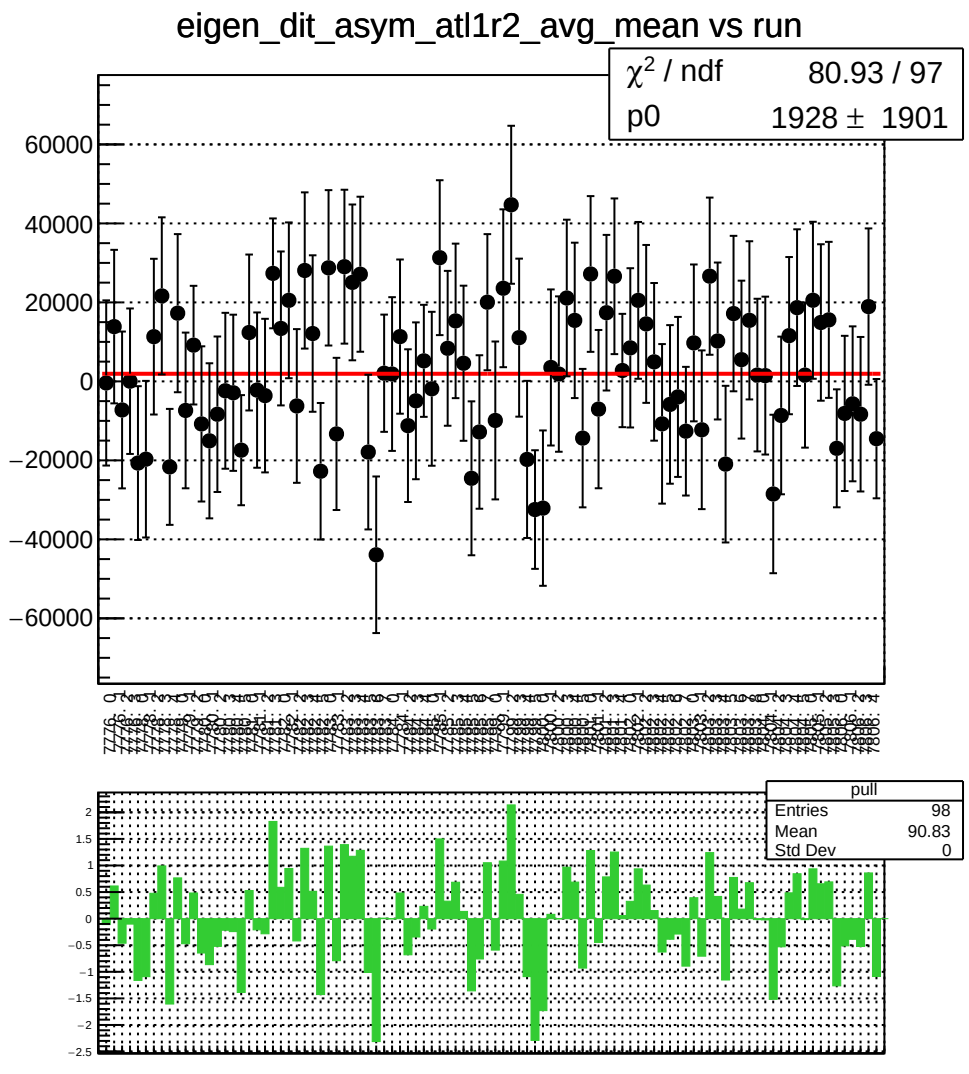

pull1D
Entries 98
Mean 0.02024
Std Dev 0.9085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

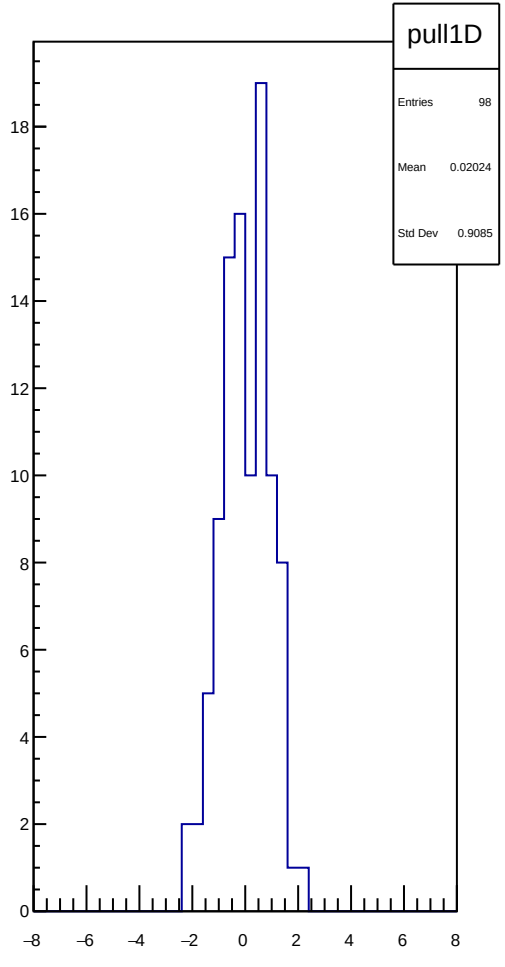

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 258.7 / 97
p0 1874 ± 1.345
2000
1950
1900
1850
1800

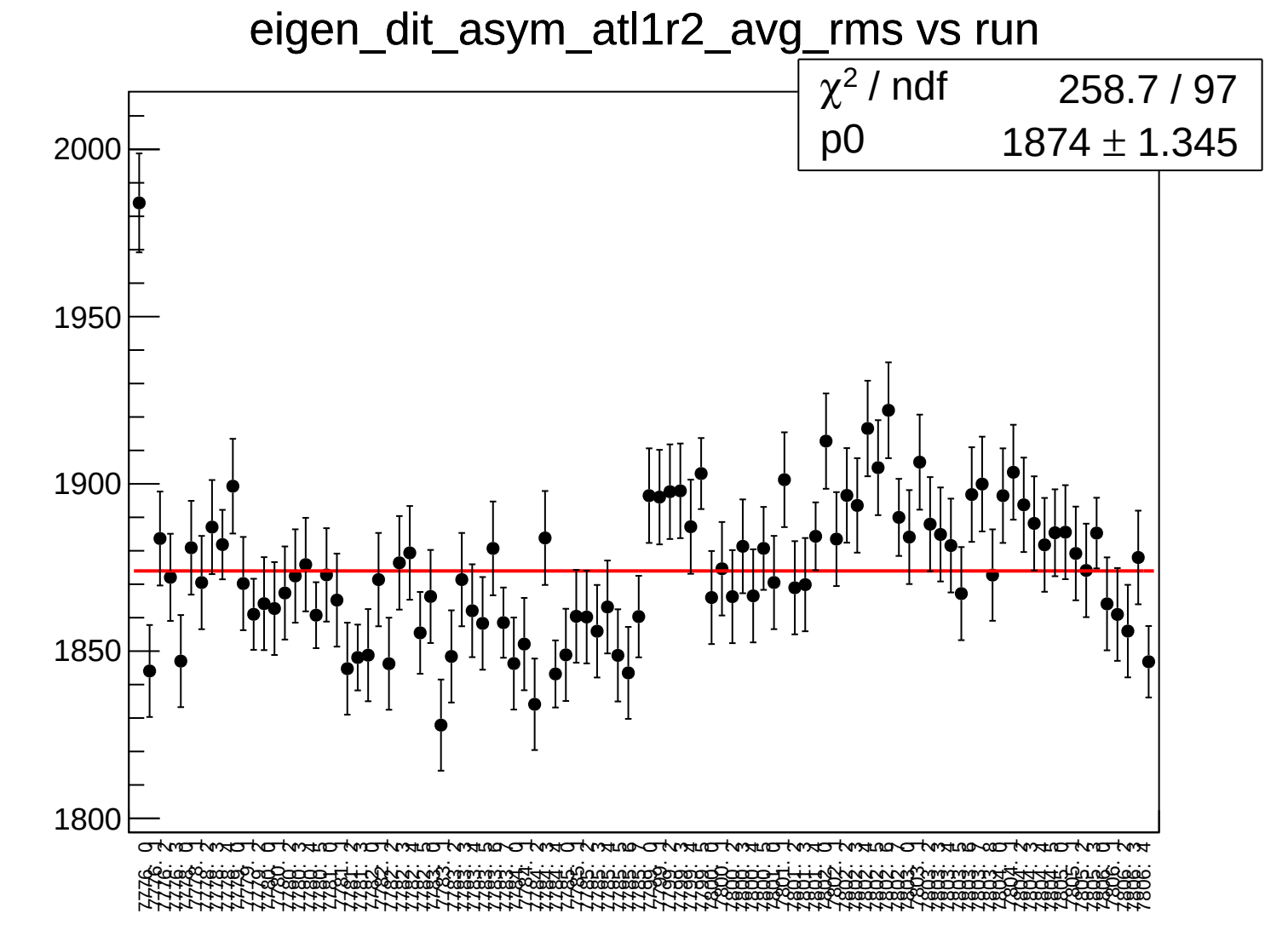

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.29 / 97
p0 5265 ± 7161
200
100
0
−100
−200
−300
pull
Entries 98
Mean 498.6
Std Dev 0
2
1
0
−1
−2
−3

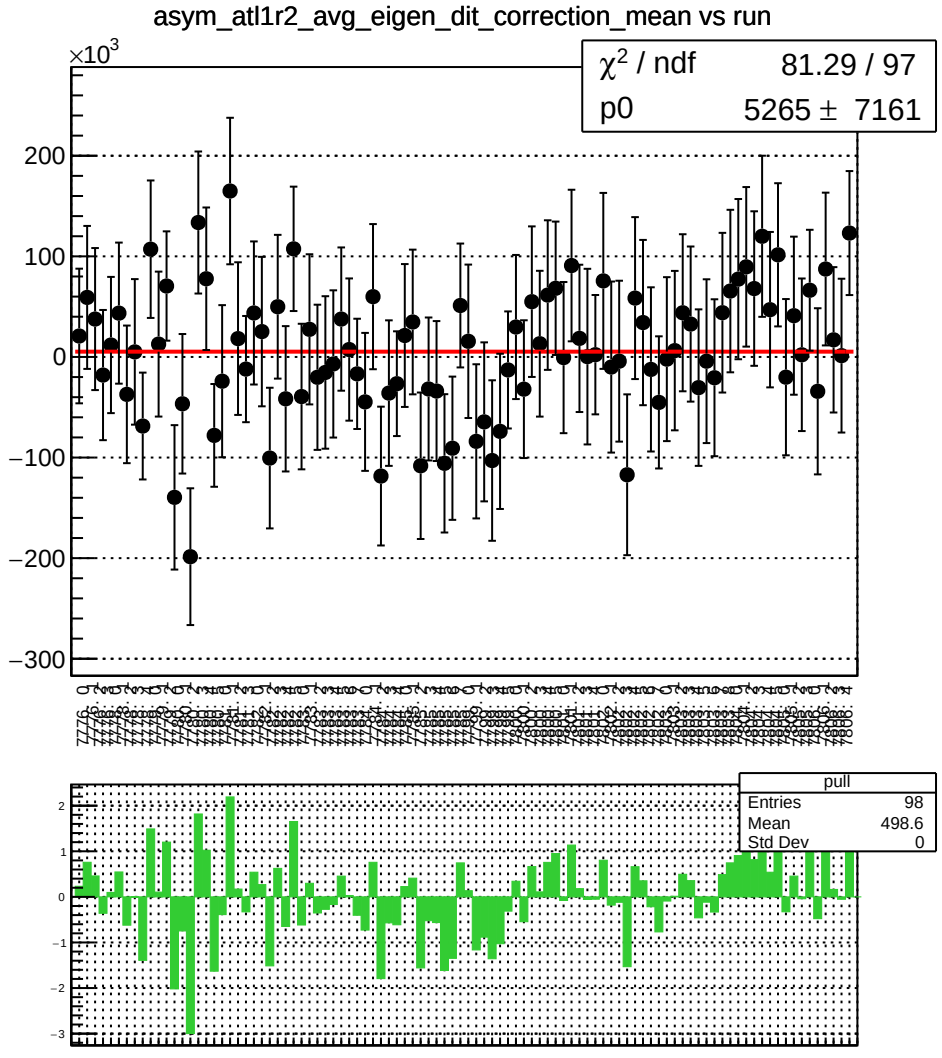

pull1D
Entries 98
Mean 0.011
Std Dev 0.9107
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

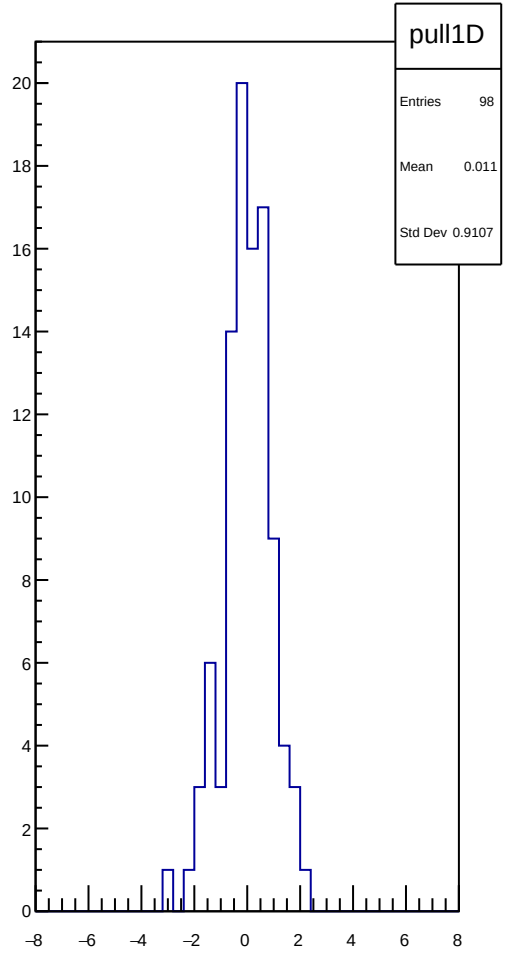

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 6871 / 97
p0 7045 ± 5.064
8500
8000
7500
7000
6500

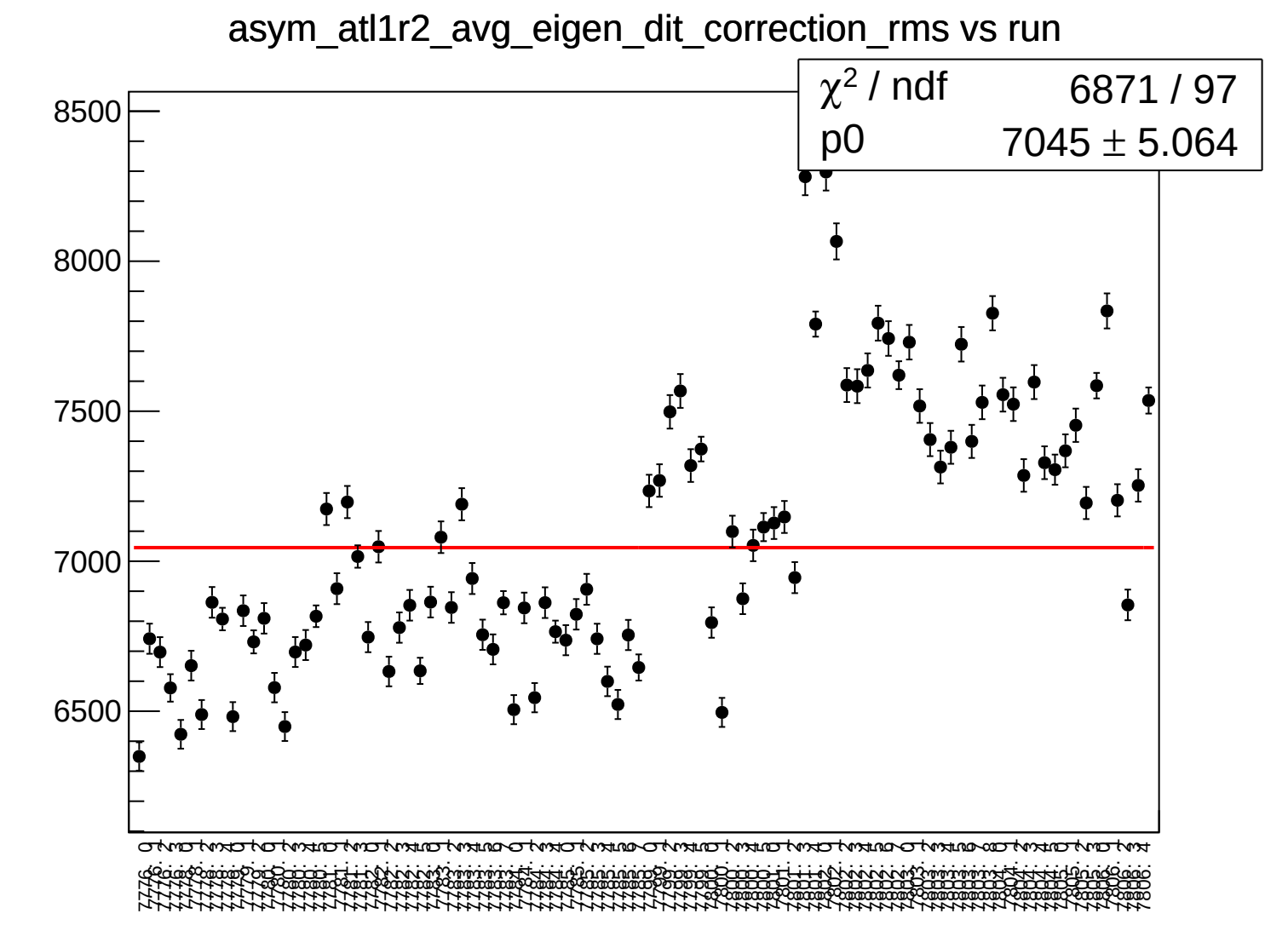

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 80.93 / 97
p0 1928 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 90.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

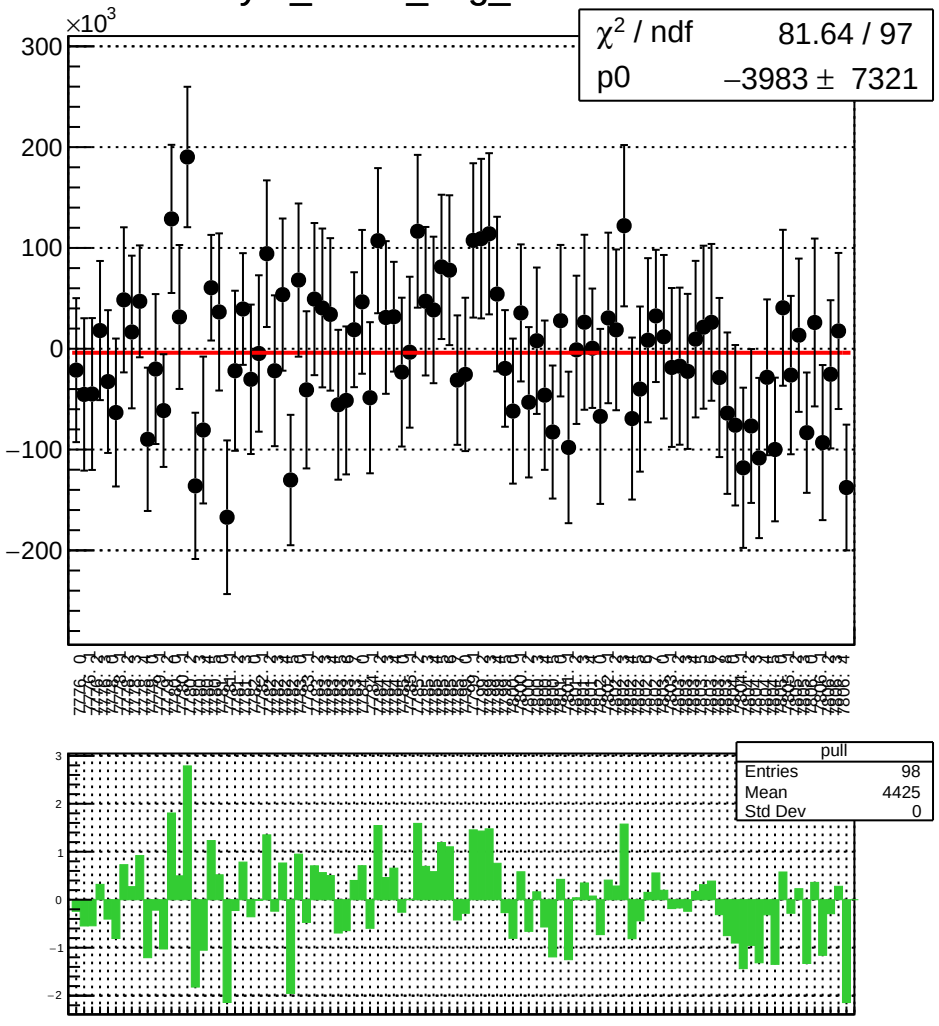

pull1D
Entries 98
Mean 0.02024
Std Dev 0.9085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

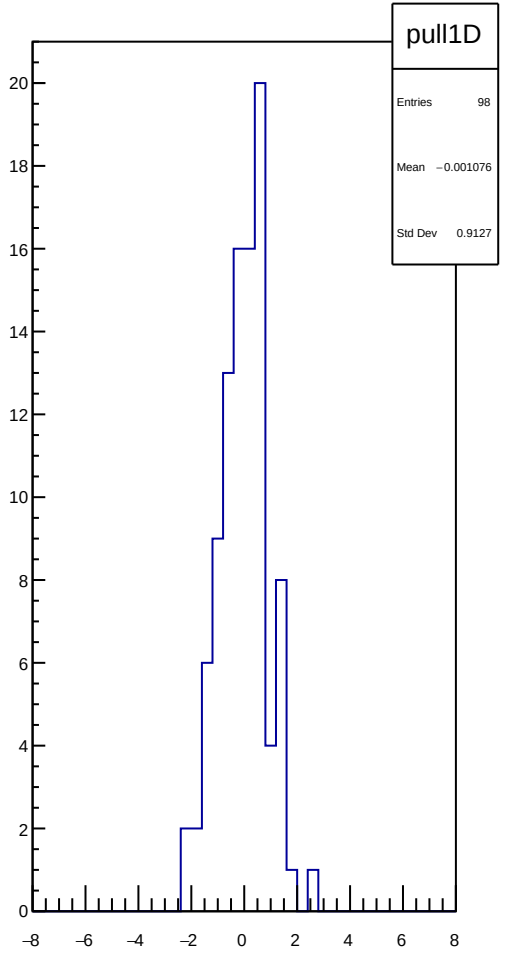

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 258.7 / 97
p0 1874 ± 1.345
2000
1950
1900
1850
1800

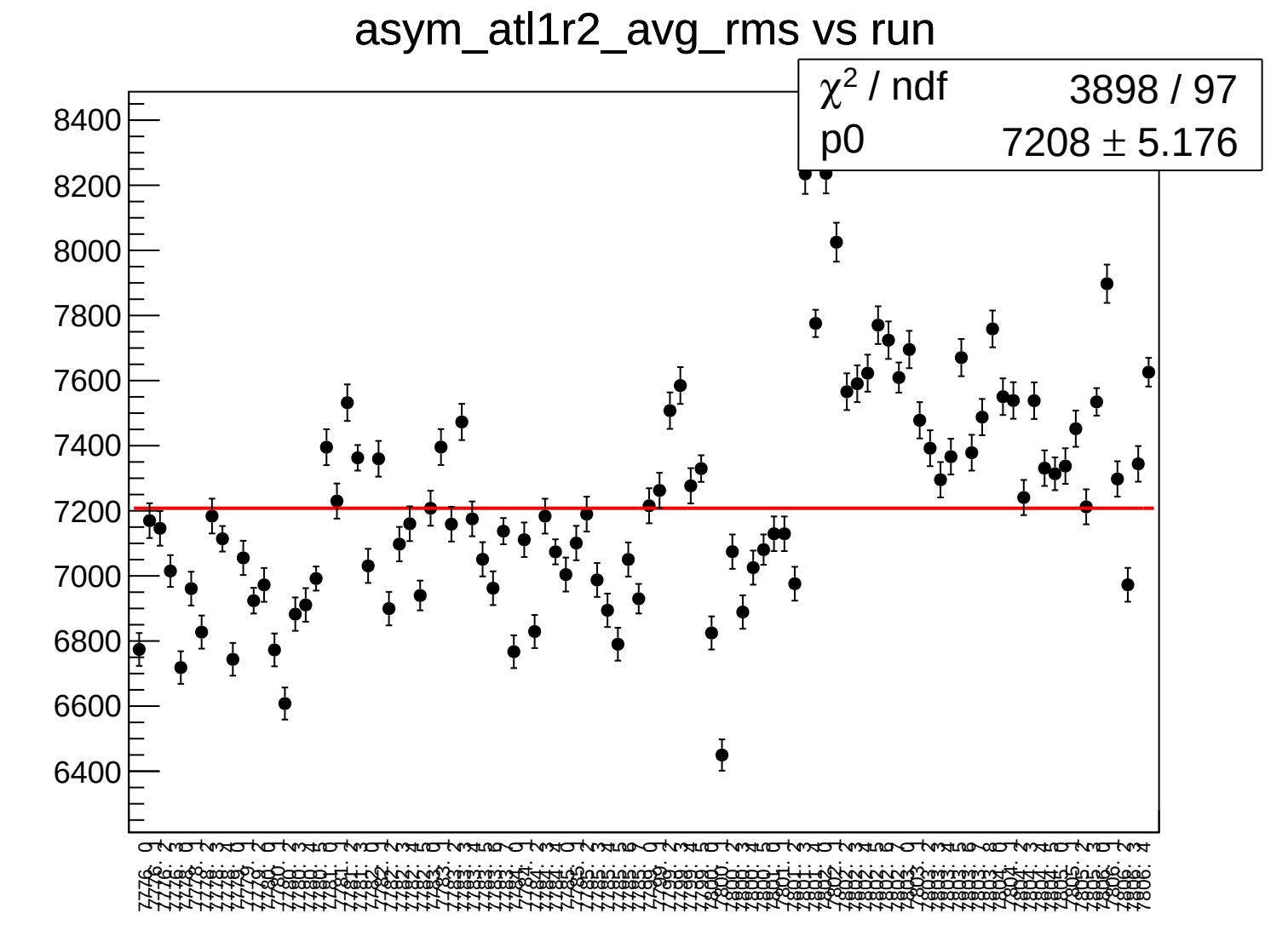

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.29 / 97
p0 5265 ± 7161
200
100
0
−100
−200
−300
pull
Entries 98
Mean 498.6
Std Dev 0
2
1
0
−1
−2
−3

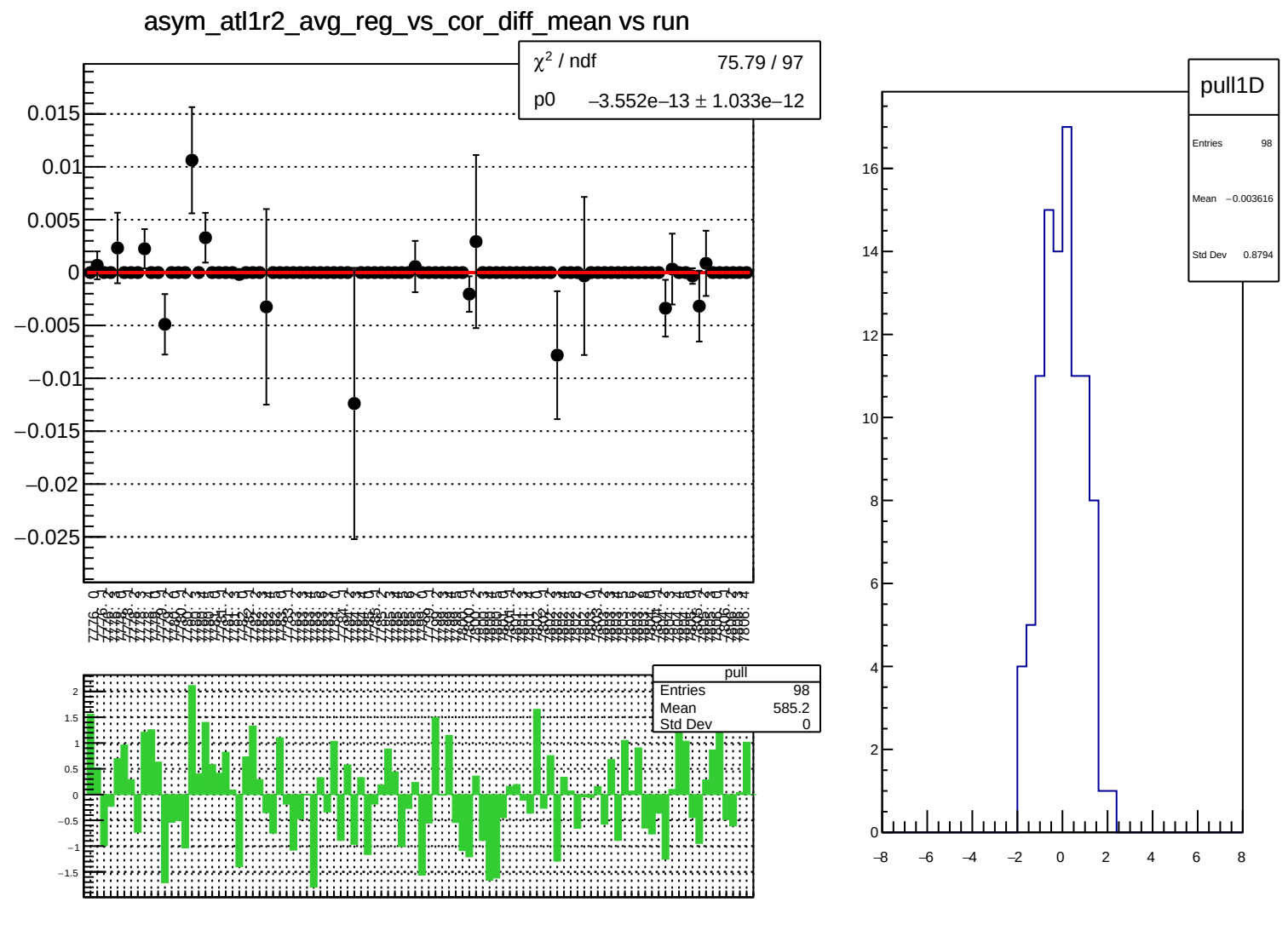

pull1D
Entries 98
Mean 0.011
Std Dev 0.9107
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

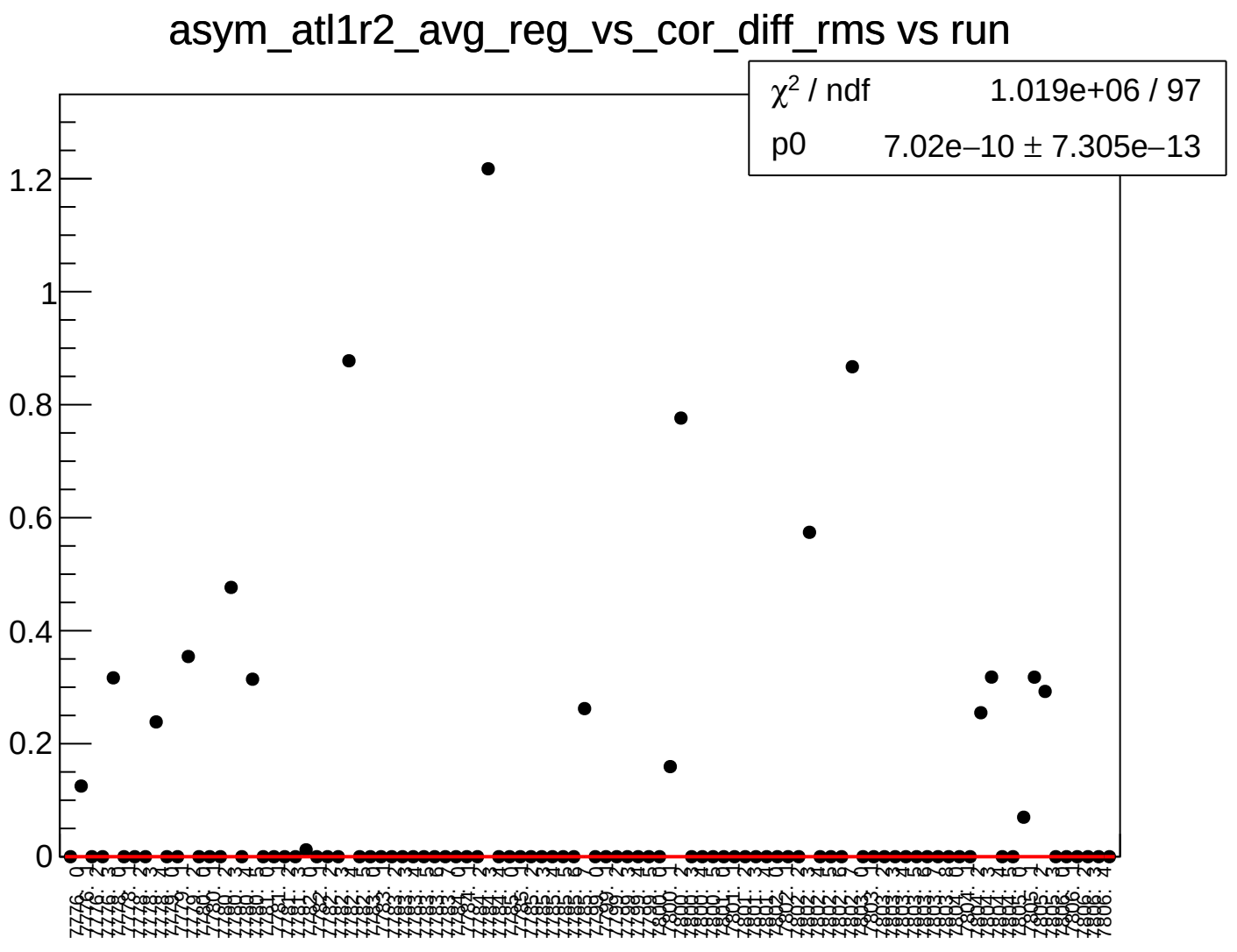

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6871 / 97
p0 7045 ± 5.064
8500
8000
7500
7000
6500

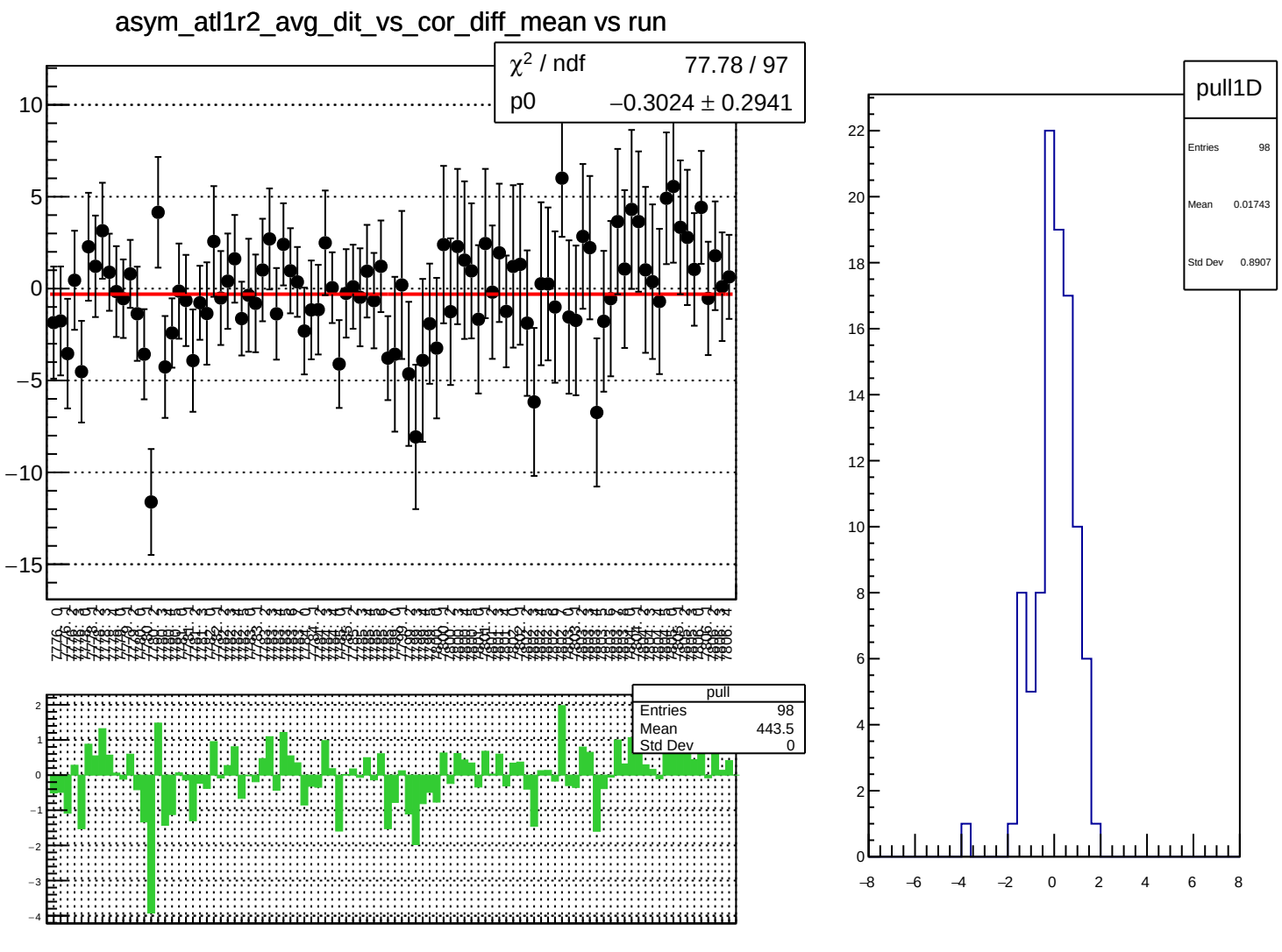

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 81.64 / 97
p0 −3983 ± 7321
300
200
100
0
−100
−200
pull
Entries 98
Mean 4425
Std Dev 0
3
2
1
0
−1
−2

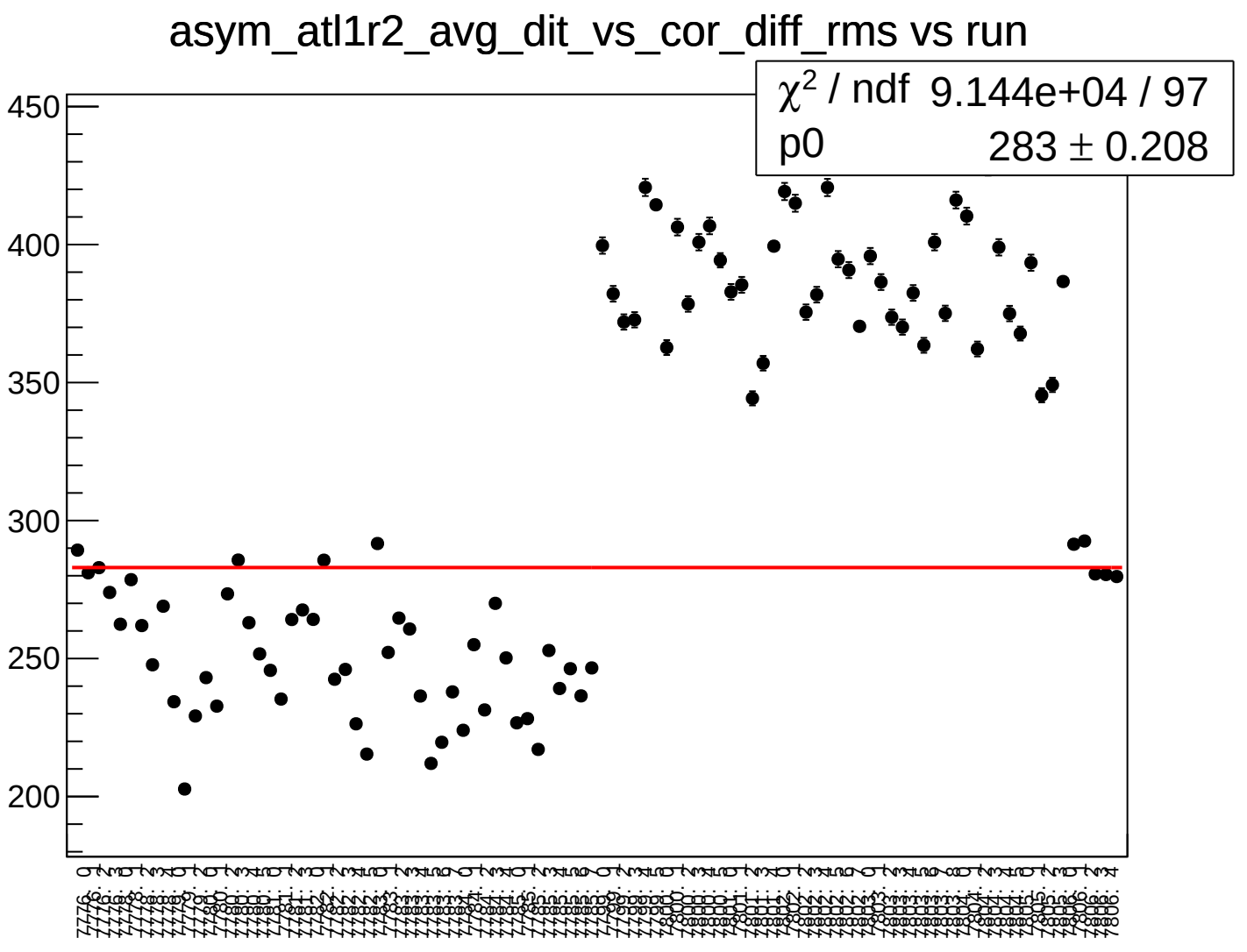

pull1D
Entries 98
Mean −0.001076
Std Dev 0.9127
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

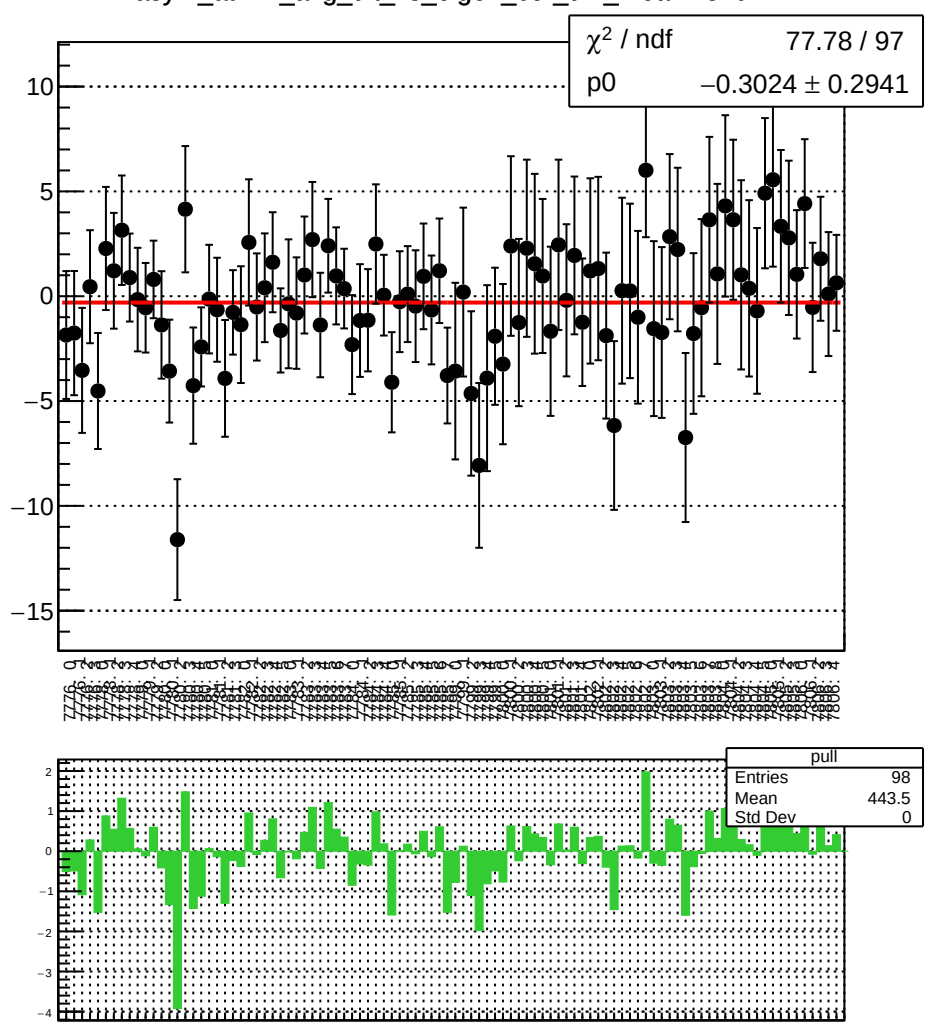

asym_atl1r2_avg_rms vs run
χ^2 / ndf 3898 / 97
p0 7208 ± 5.176
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

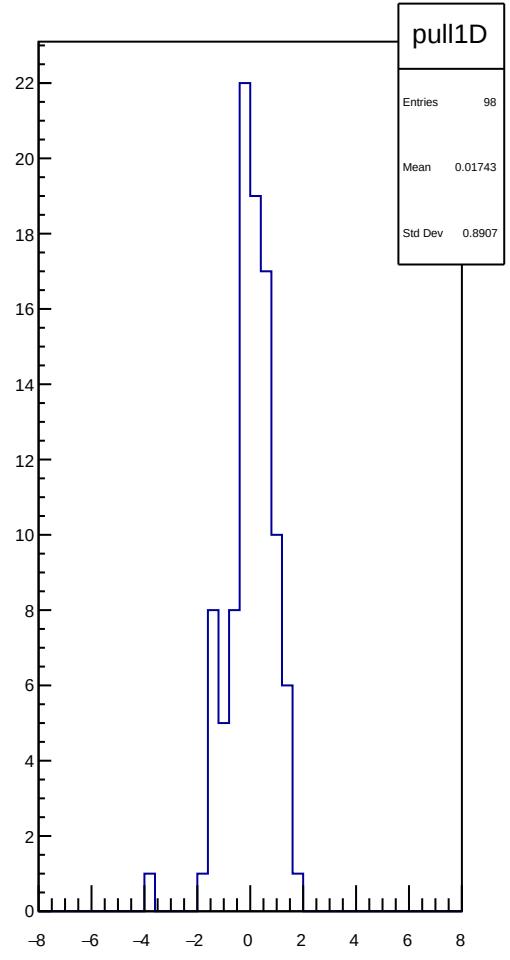

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.79 / 97
p0 −3.552e−13 ± 1.033e−12
pull
Entries 98
Mean 585.2
Std Dev 0
pull1D
Entries 98
Mean −0.003616
Std Dev 0.8794

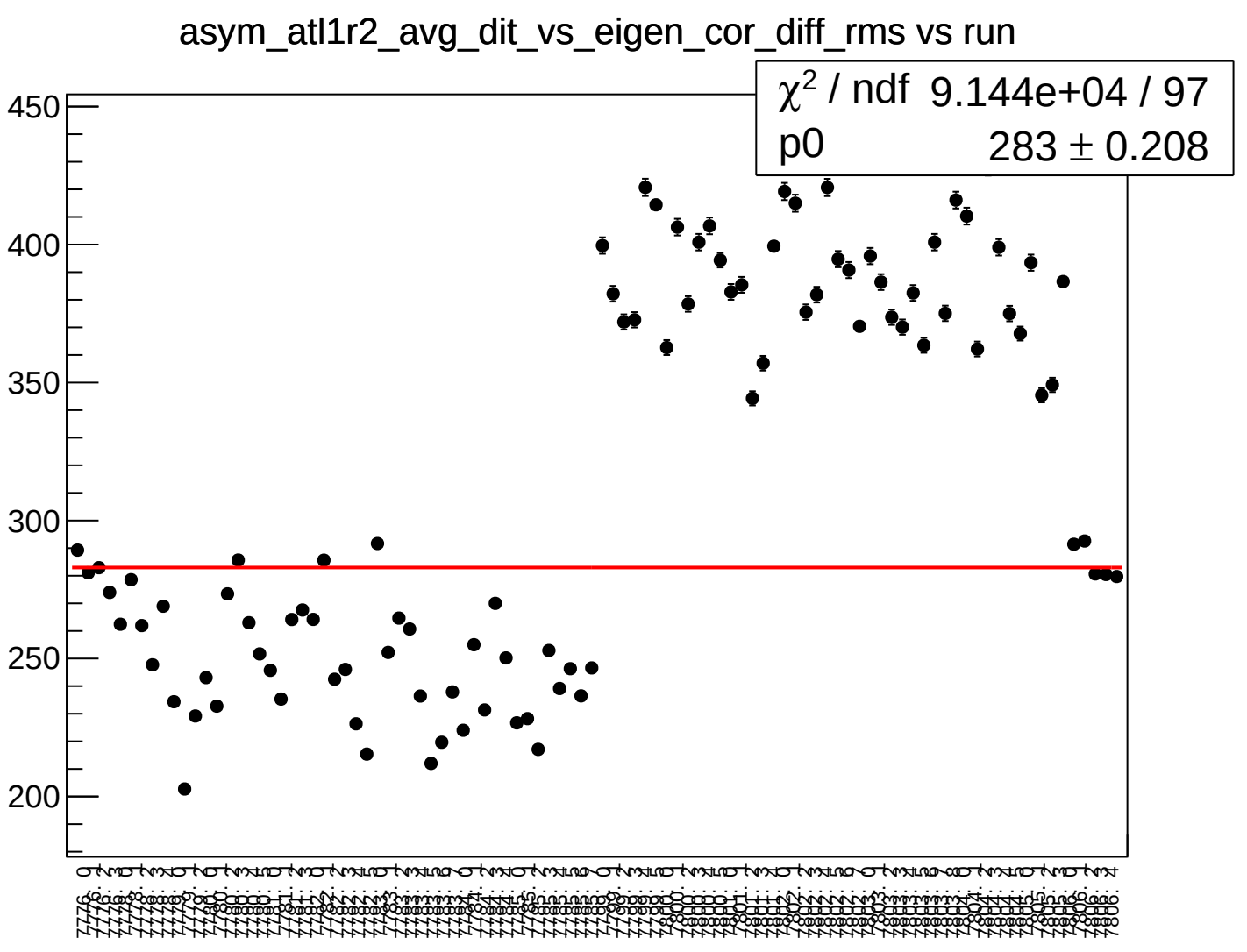

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.019e+06 / 97
p0 7.02e−10 ± 7.305e−13
1.2
1
0.8
0.6
0.4
0.2
0

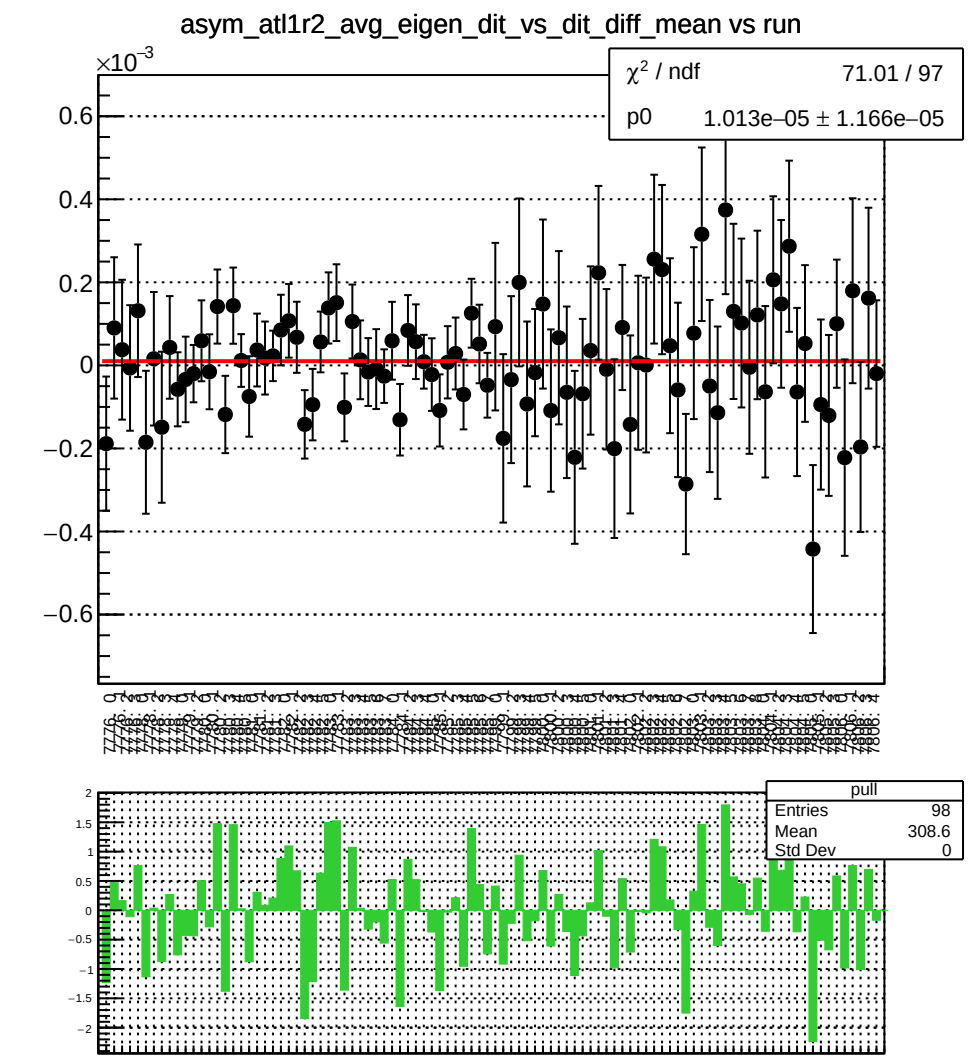

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.78 / 97
p0 −0.3024 ± 0.2941
pull
Entries 98
Mean 443.5
Std Dev 0
pull1D
Entries 98
Mean 0.01743
Std Dev 0.8907

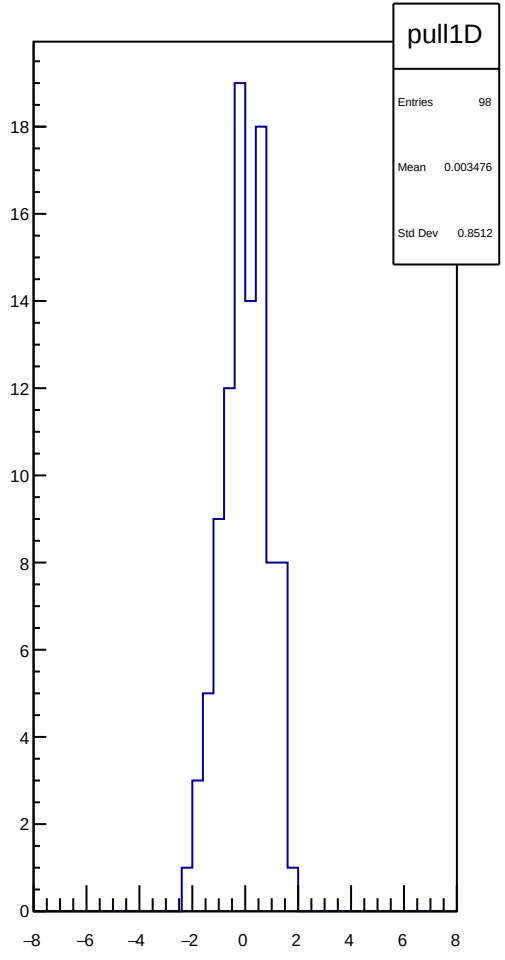

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.144e+04 / 97
p0 283 ± 0.208
450
400
350
300
250
200

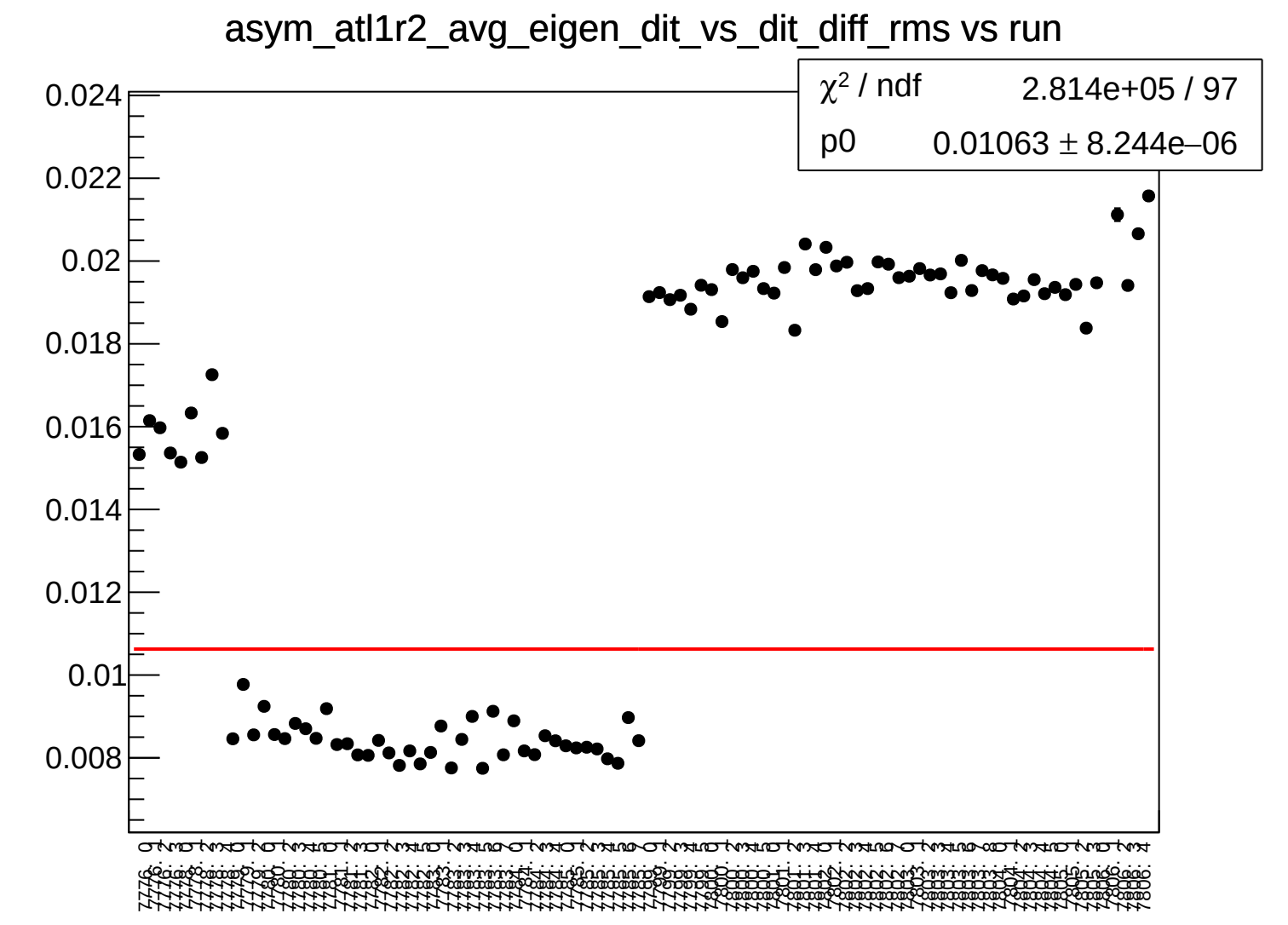

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.78 / 97
p0 −0.3024 ± 0.2941
pull
Entries 98
Mean 443.5
Std Dev 0

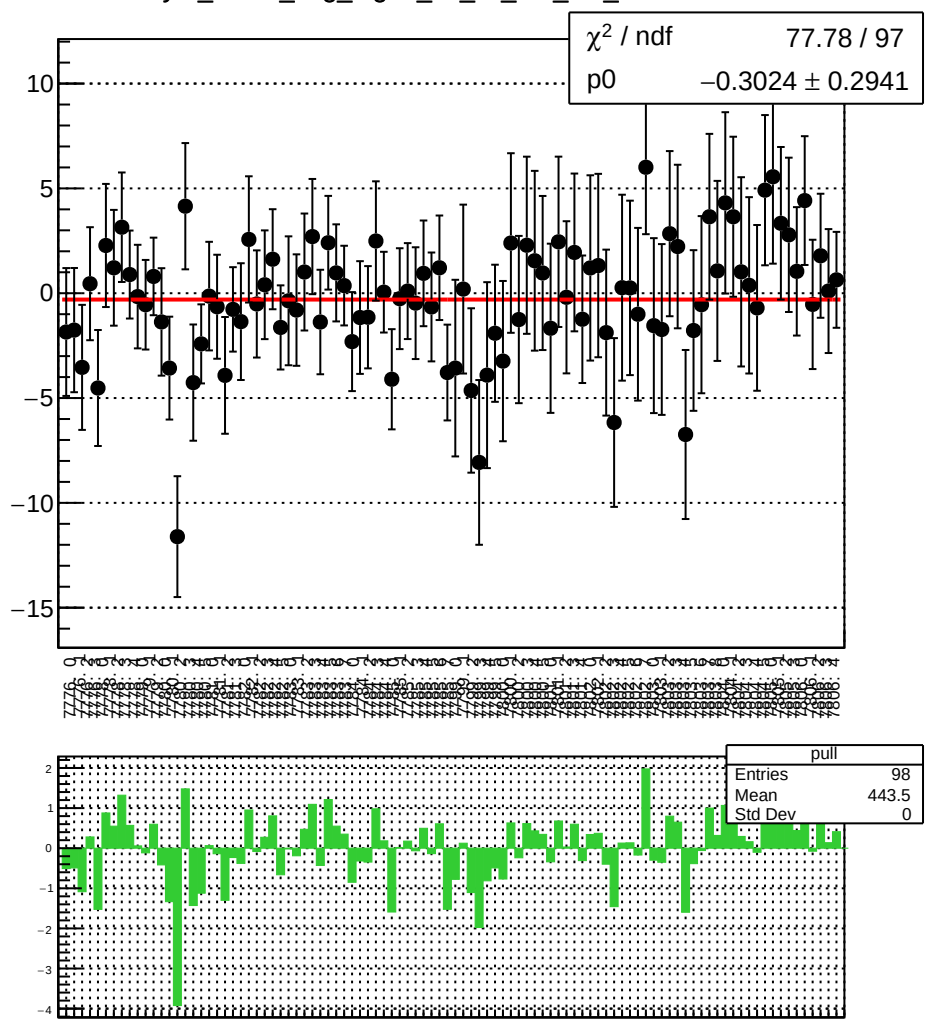

pull1D
Entries 98
Mean 0.01743
Std Dev 0.8907

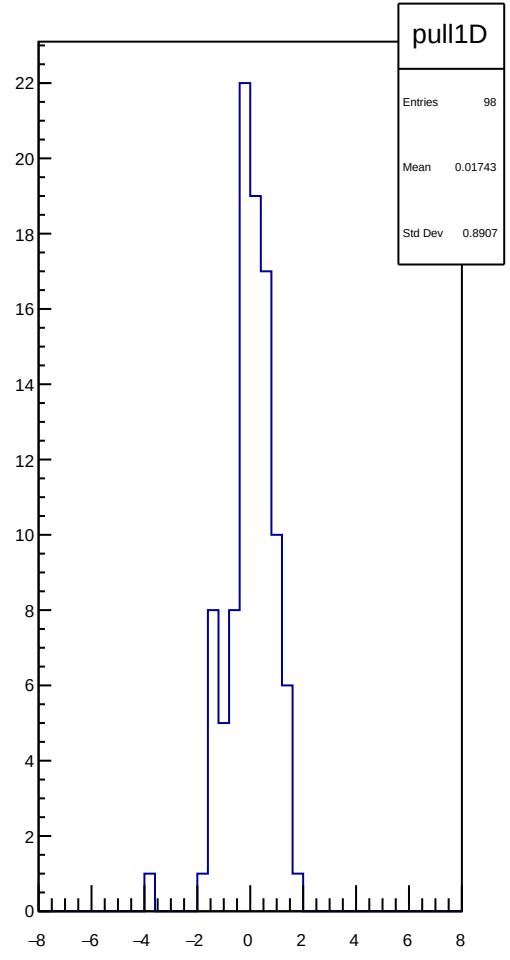

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.144e+04 / 97
p0 283 ± 0.208
450
400
350
300
250
200

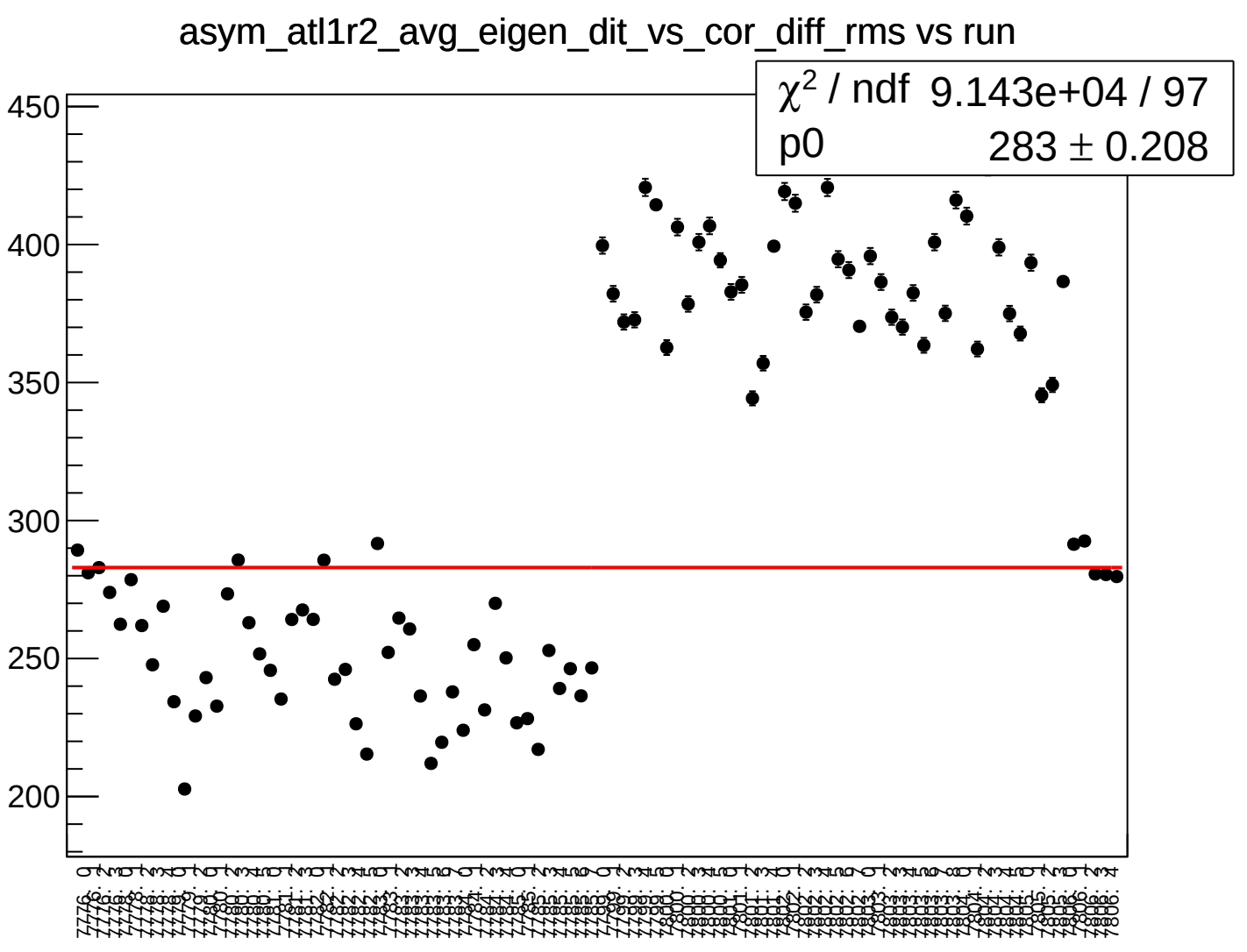

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.01 / 97
p0 1.013e−05 ± 1.166e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 98
Mean 308.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

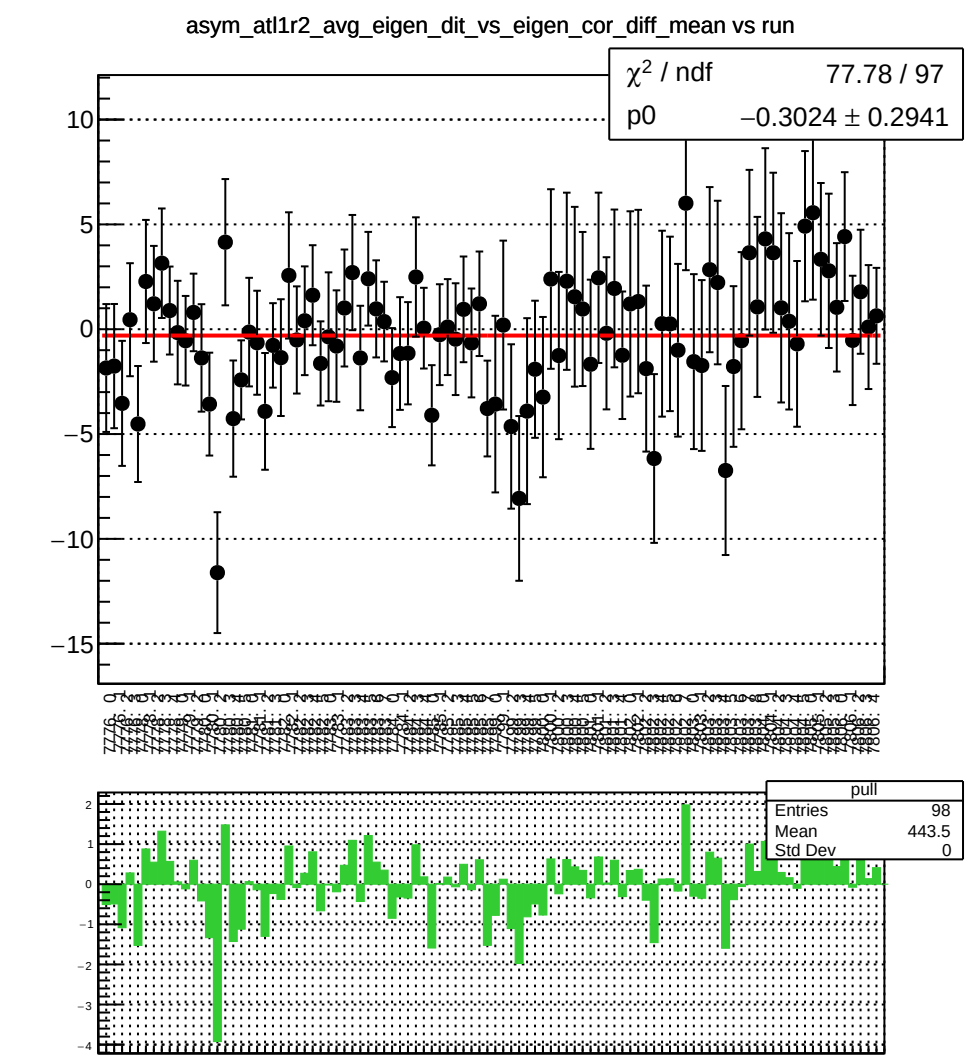

pull1D
Entries 98
Mean 0.003476
Std Dev 0.8512
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

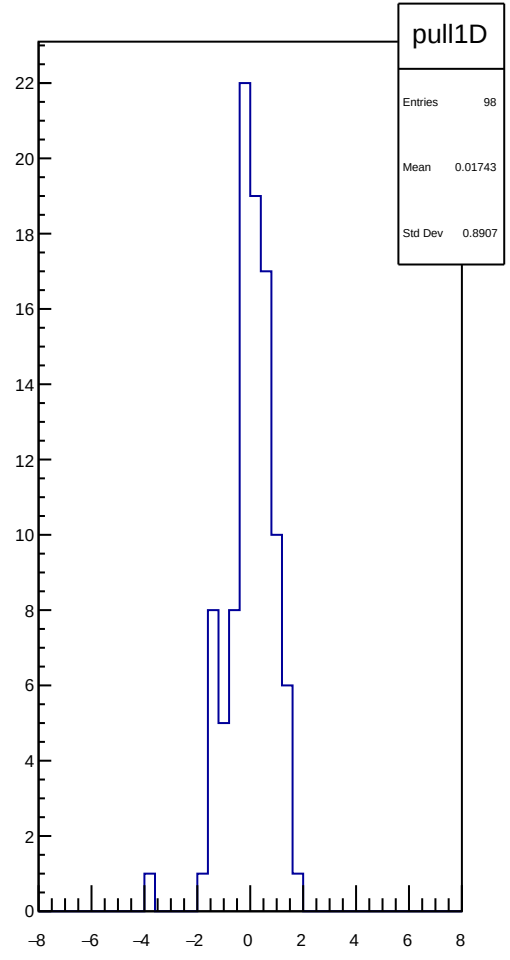

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.814e+05 / 97
p0 0.01063 ± 8.244e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

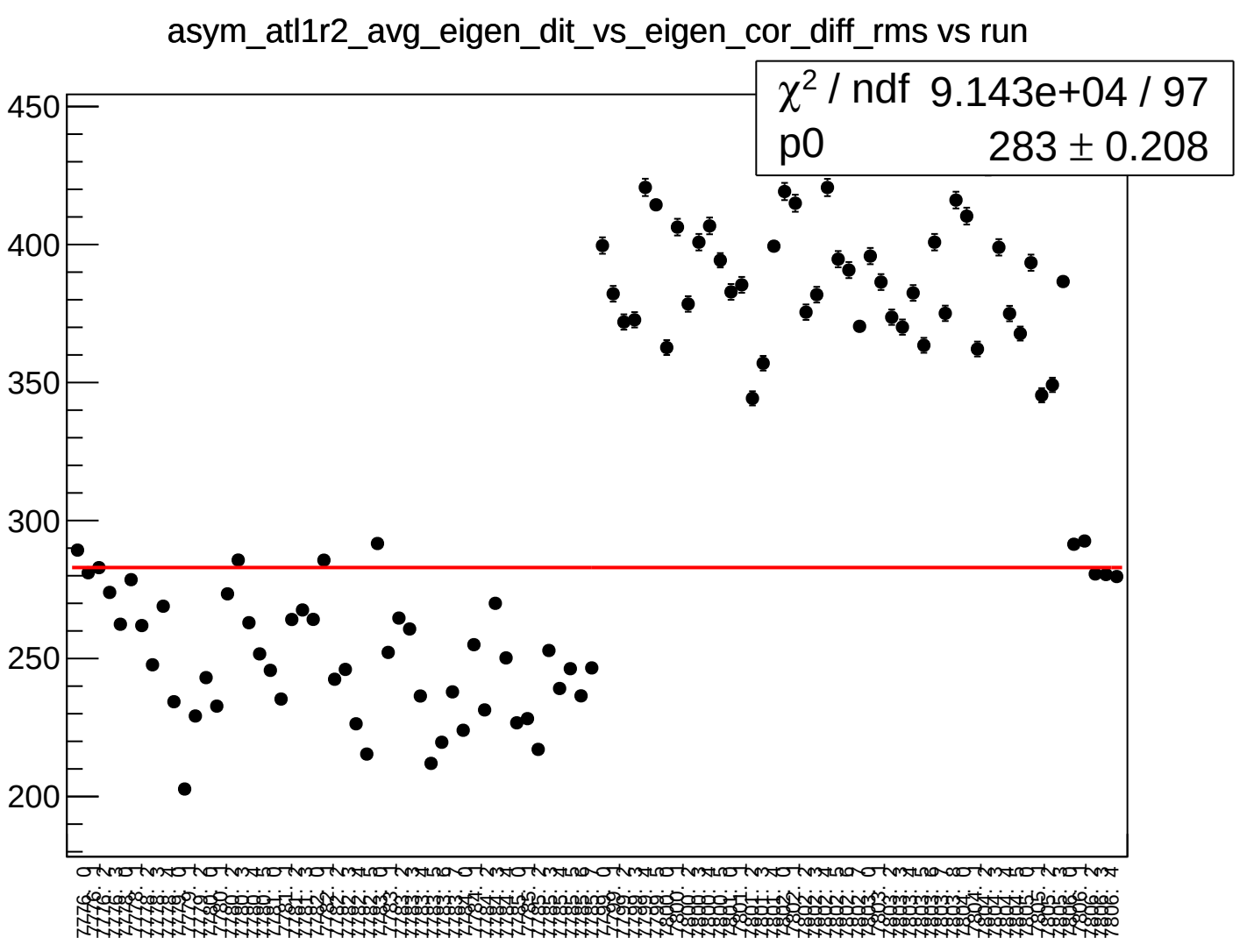

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.78 / 97
p0 −0.3024 ± 0.2941
pull
Entries 98
Mean 443.5
Std Dev 0

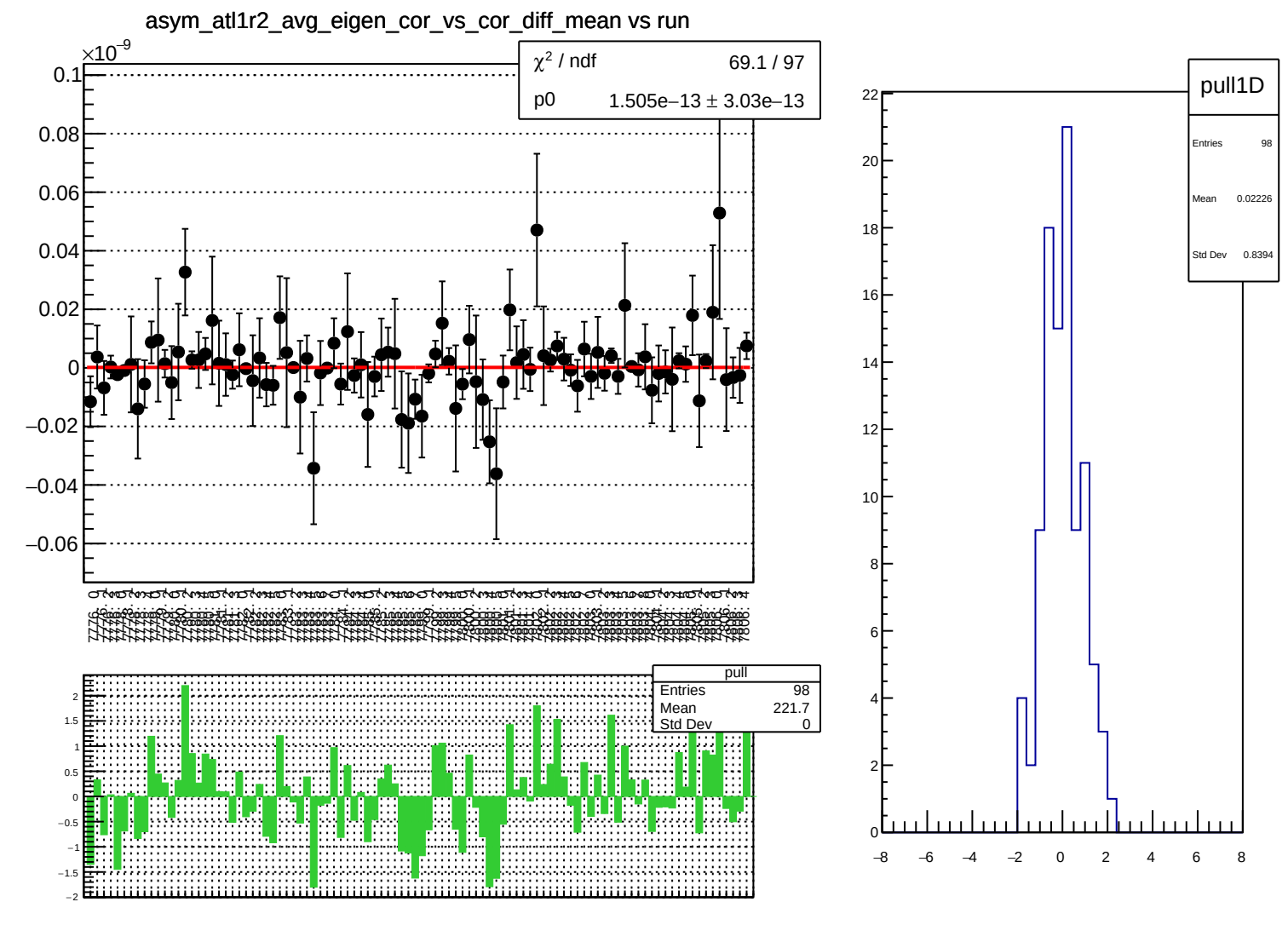

pull1D
Entries 98
Mean 0.01743
Std Dev 0.8907

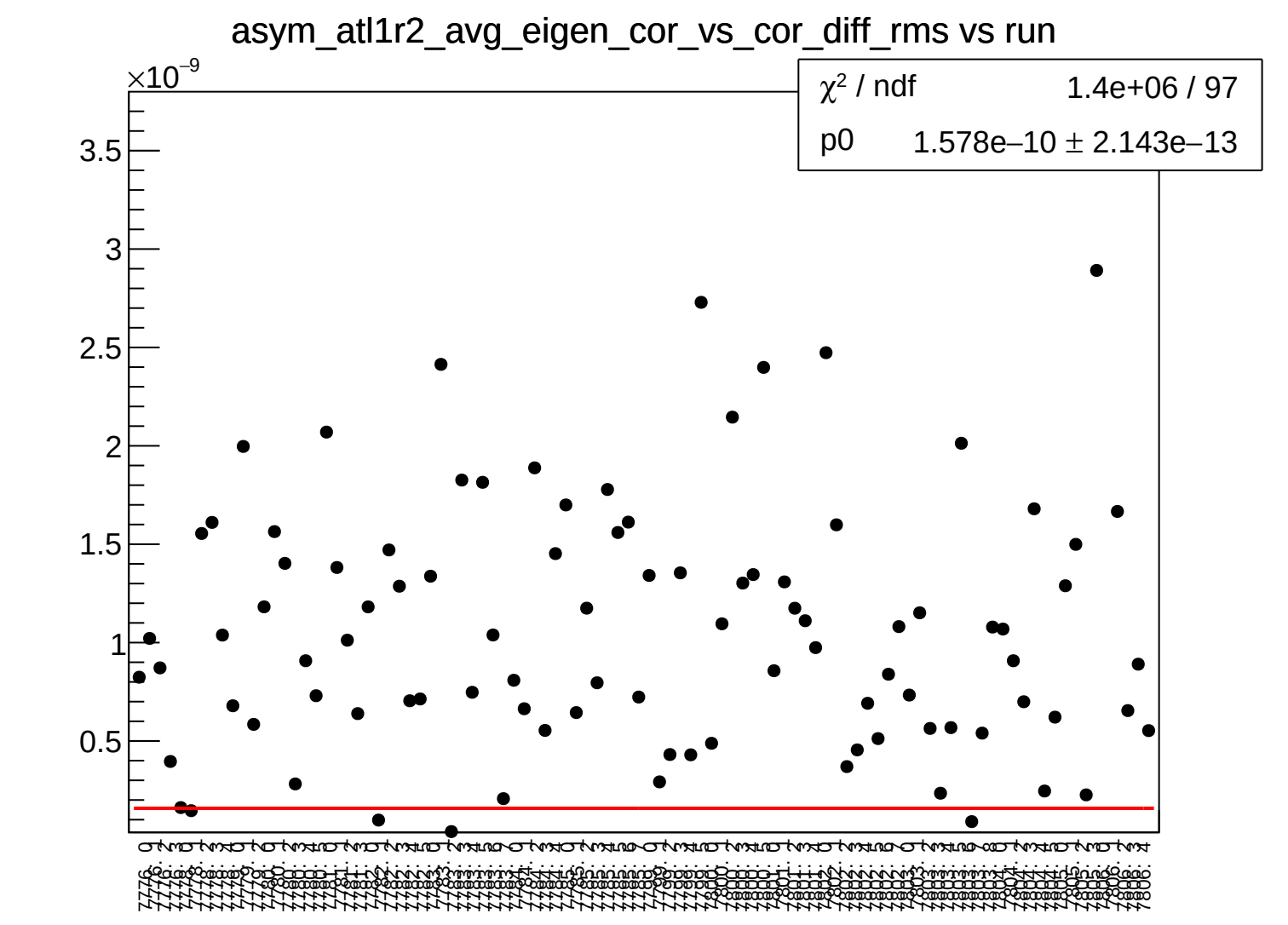

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.143e+04 / 97
p0 283 ± 0.208
450
400
350
300
250
200

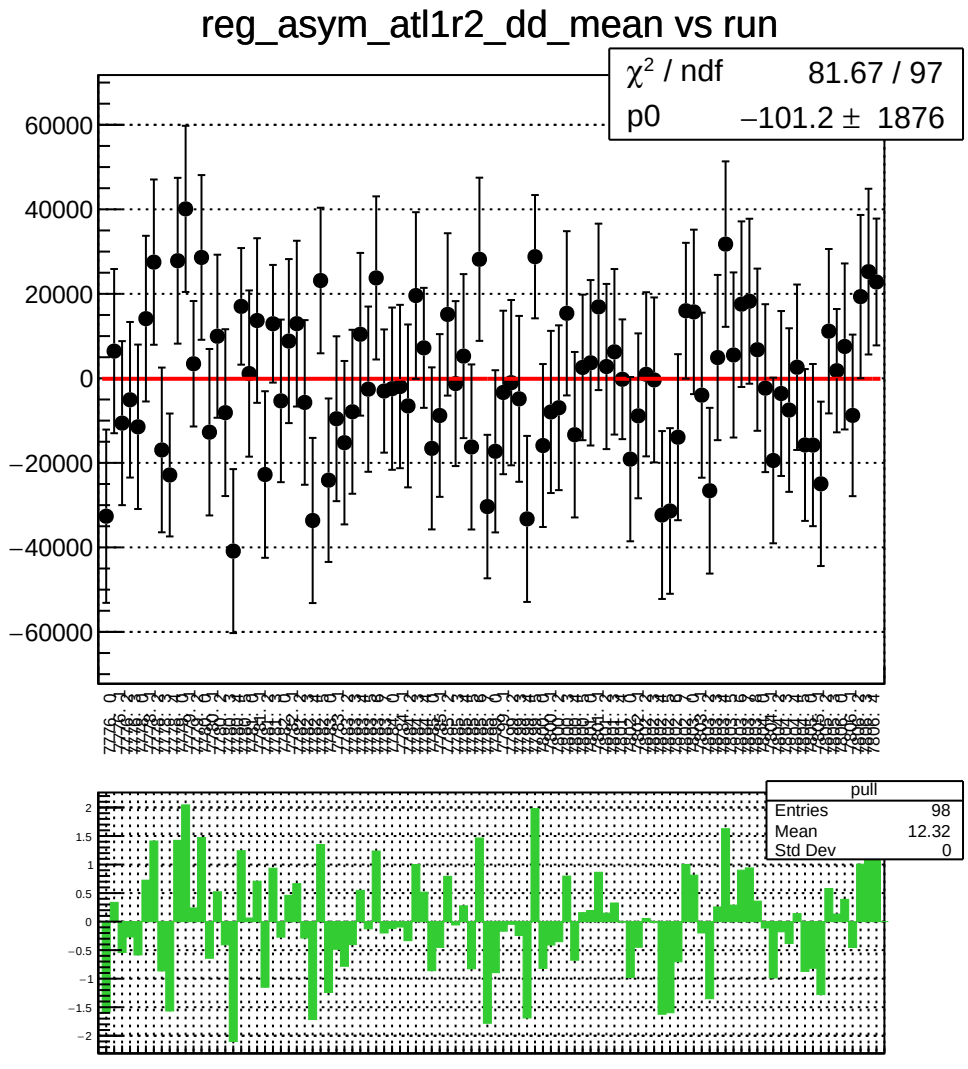

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.78 / 97
p0 −0.3024 ± 0.2941
pull
Entries 98
Mean 443.5
Std Dev 0

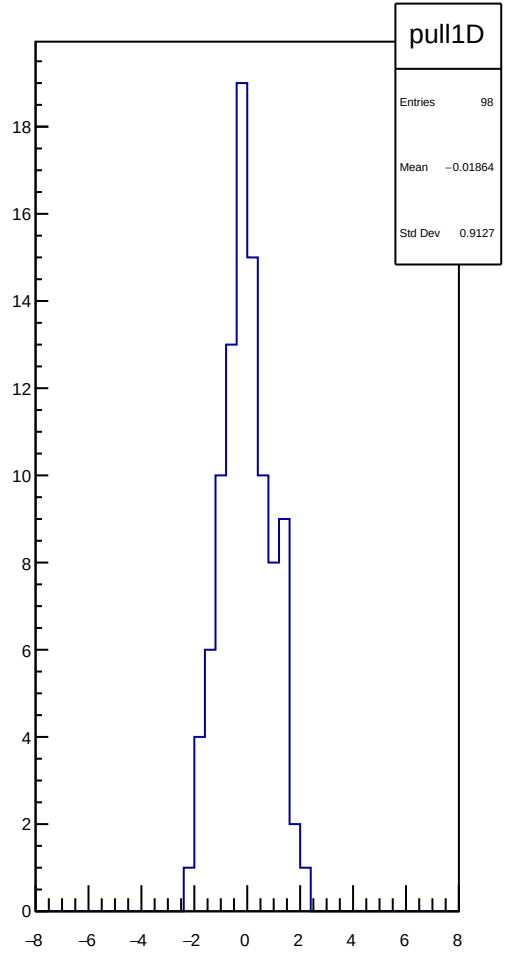

pull1D
Entries 98
Mean 0.01743
Std Dev 0.8907

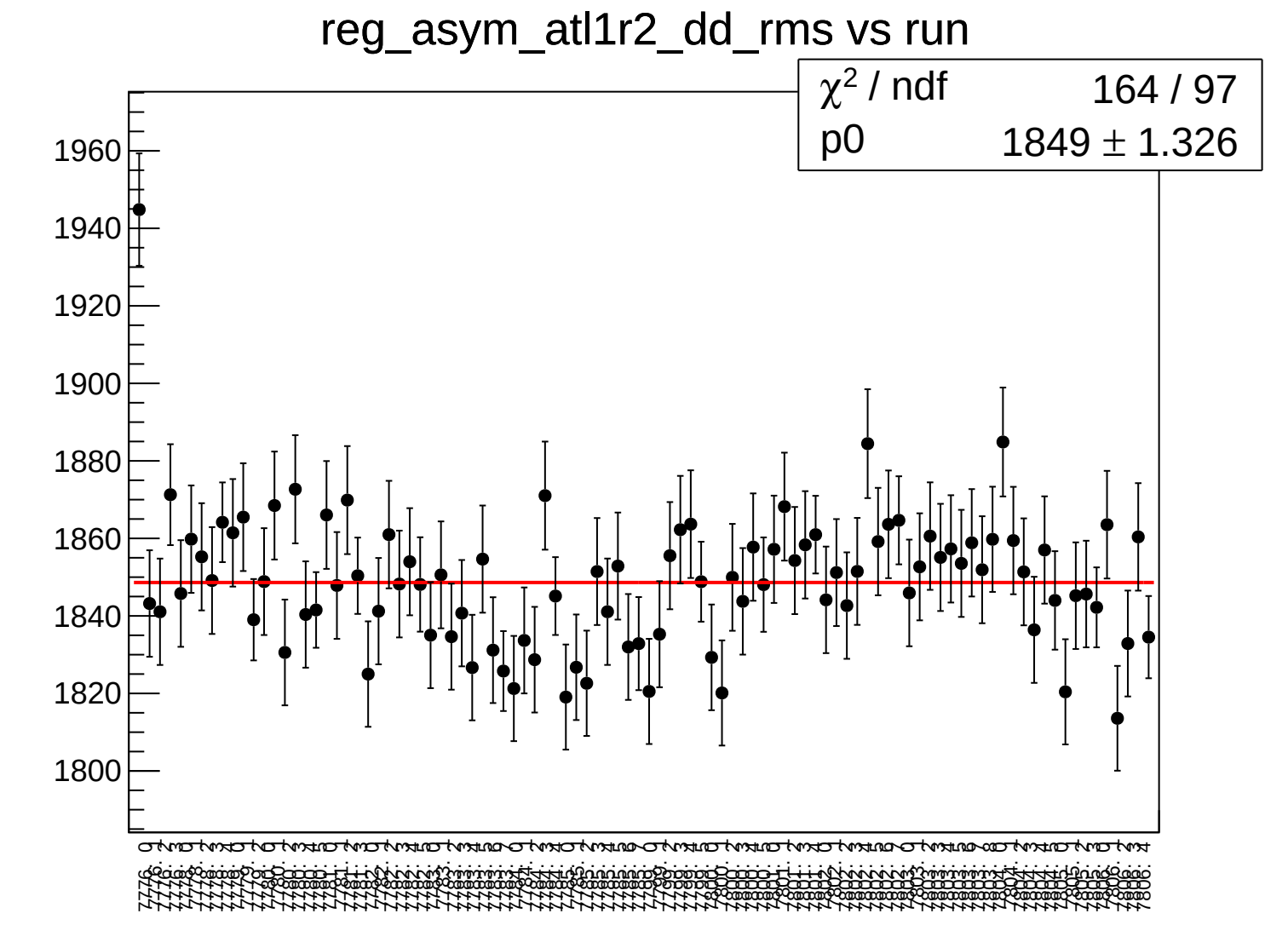

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.143e+04 / 97
p0 283 ± 0.208
450
400
350
300
250
200

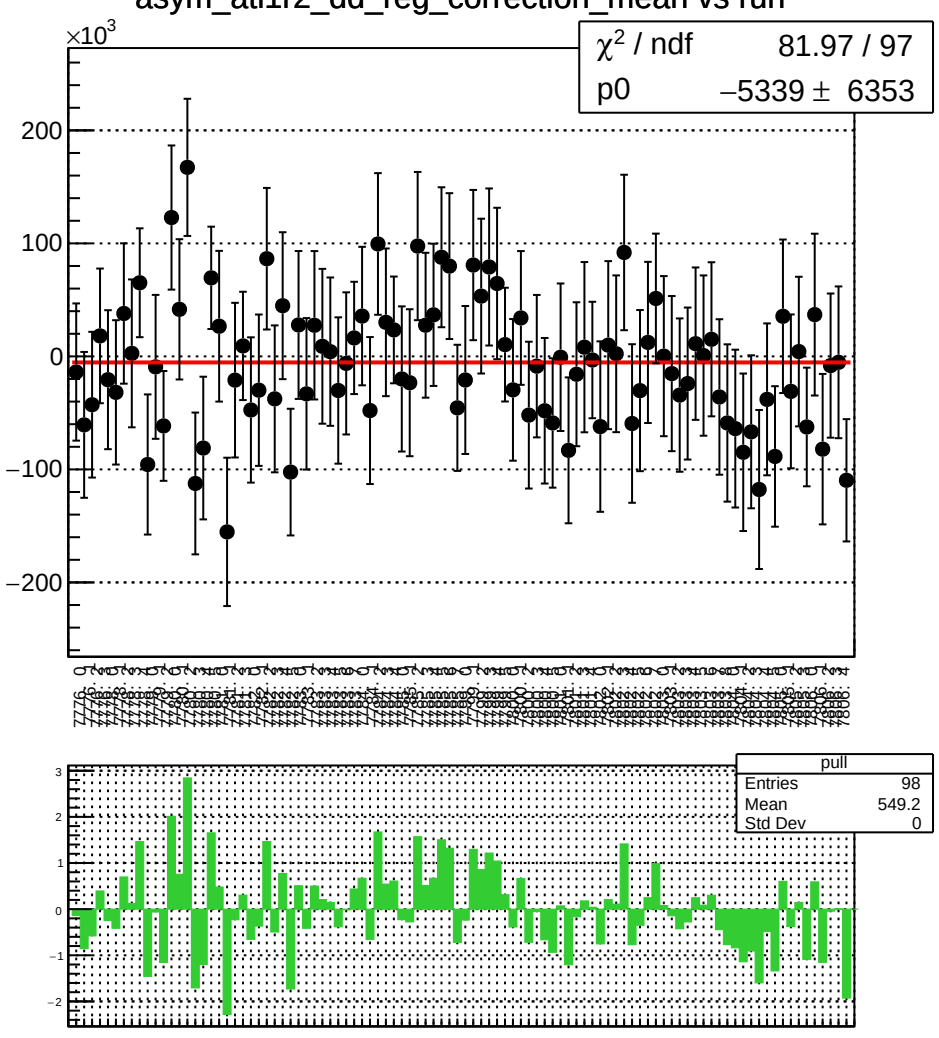

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 69.1 / 97
p0 1.505e−13 ± 3.03e−13
pull
Entries 98
Mean 221.7
Std Dev 0
pull1D
Entries 98
Mean 0.02226
Std Dev 0.8394

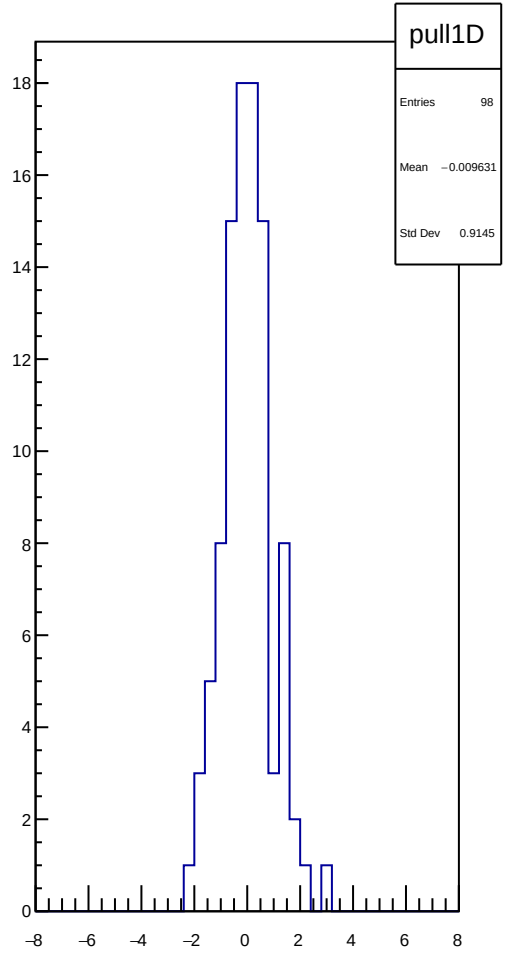

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.4e+06 / 97
p0 1.578e−10 ± 2.143e−13
3.5
3
2.5
2
1.5
1
0.5

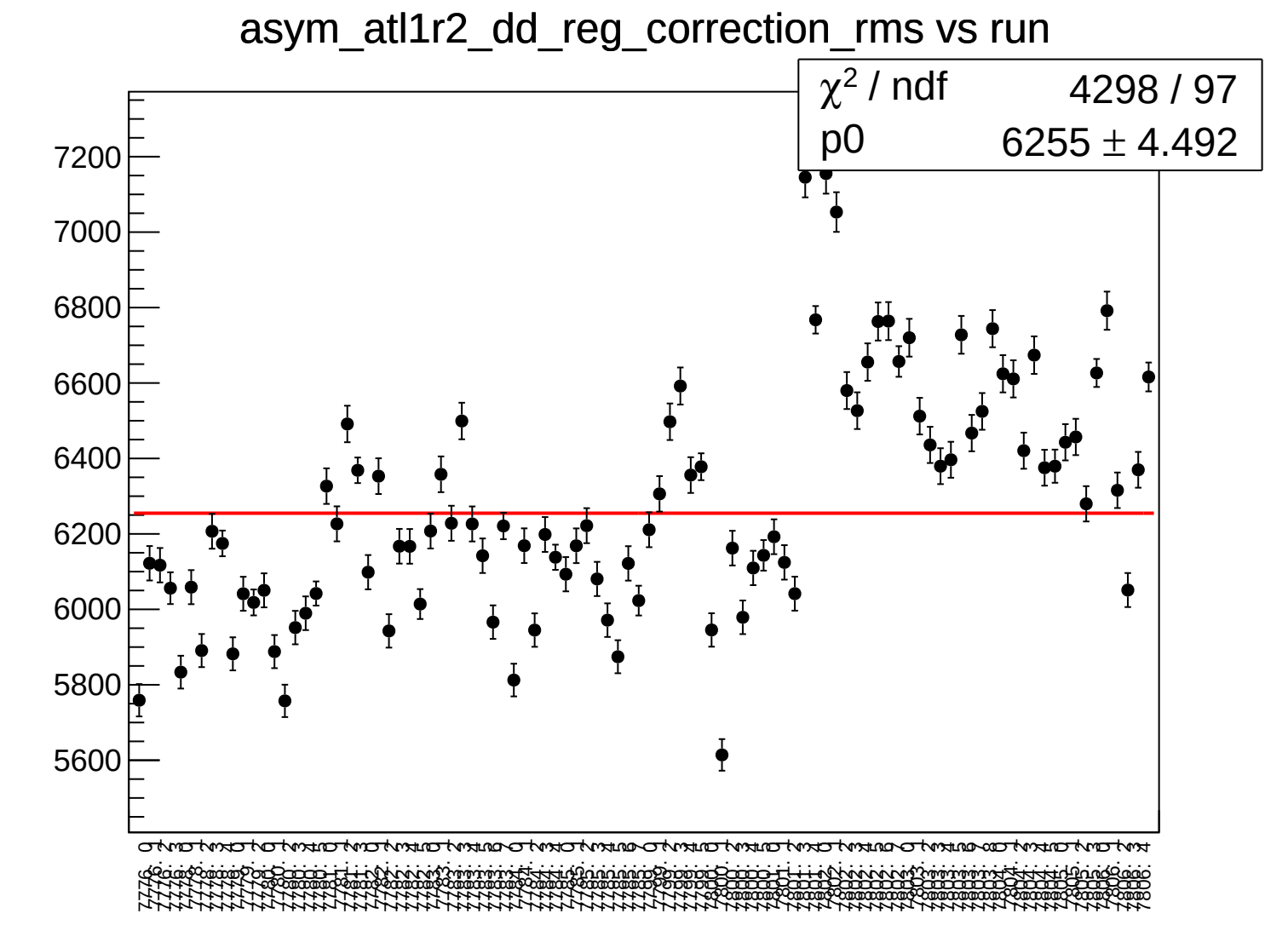

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 81.67 / 97
p0 −101.2 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 12.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

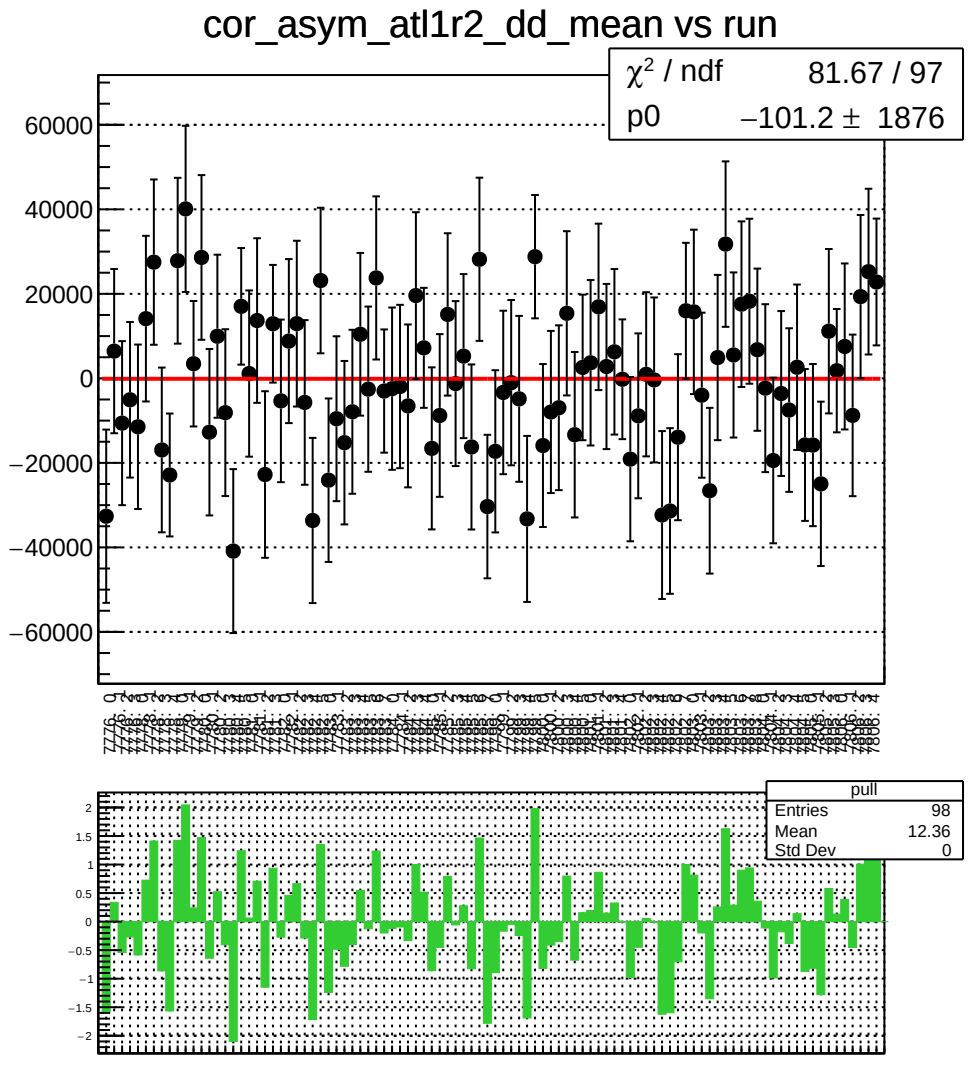

pull1D
Entries 98
Mean −0.01864
Std Dev 0.9127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

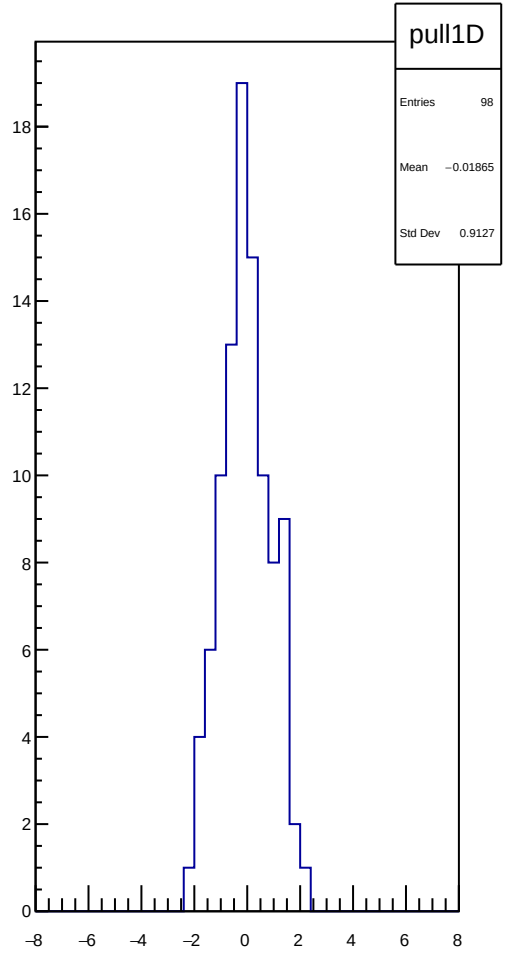

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 164 / 97
p0 1849 ± 1.326
1960
1940
1920
1900
1880
1860
1840
1820
1800

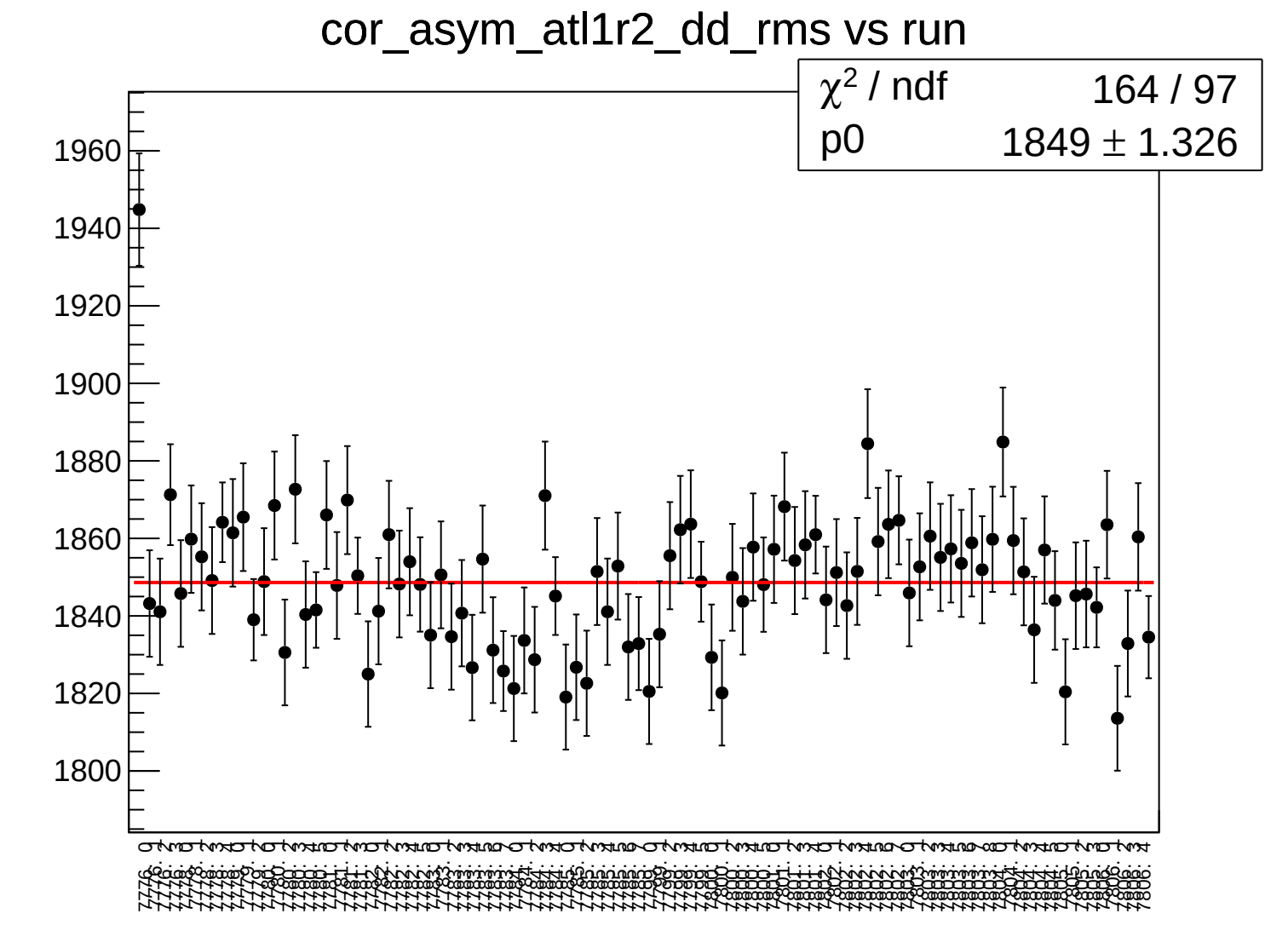

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 81.97 / 97
p0 −5339 ± 6353
200
100
0
−100
−200
pull
Entries 98
Mean 549.2
Std Dev 0
3
2
1
0
−1
−2

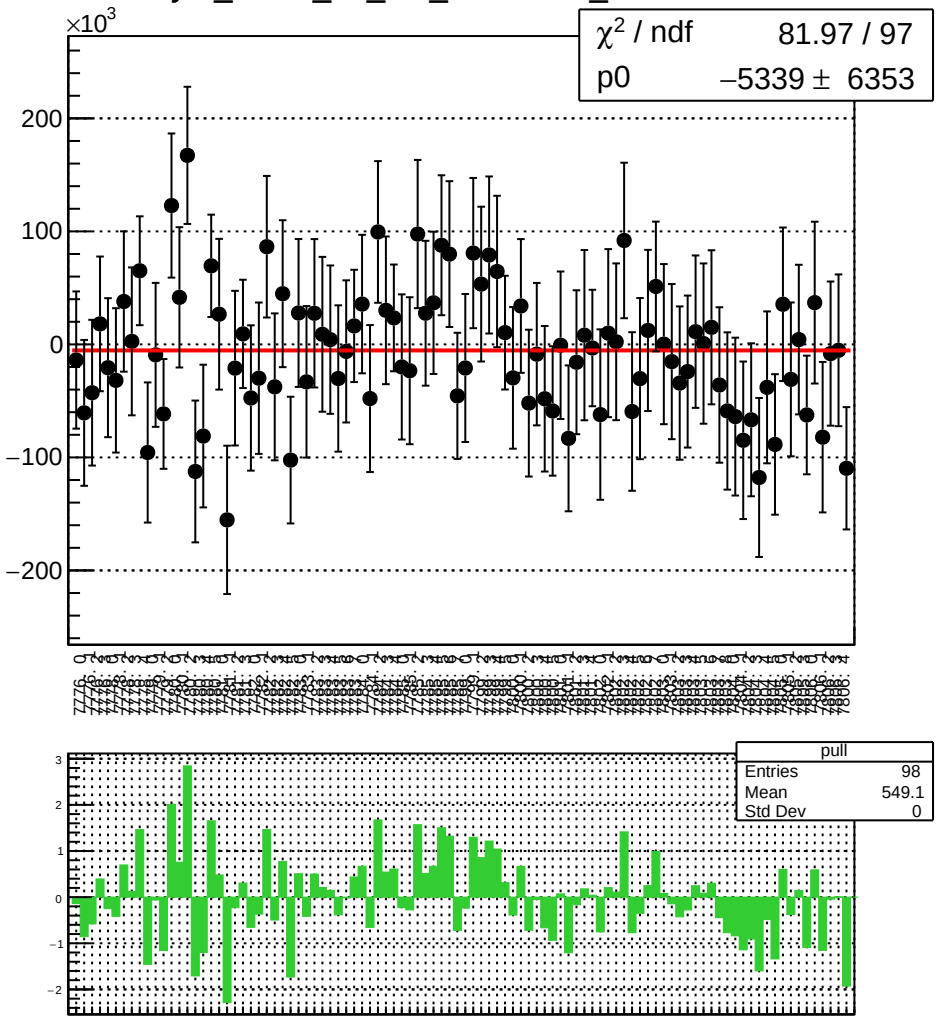

pull1D
Entries 98
Mean −0.009631
Std Dev 0.9145
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

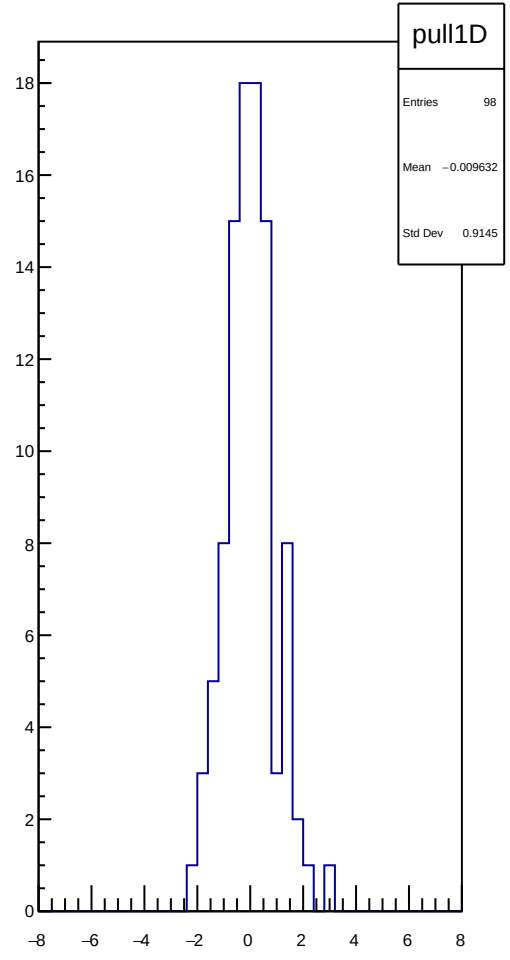

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 4298 / 97
p0 6255 ± 4.492
7200
7000
6800
6600
6400
6200
6000
5800
5600

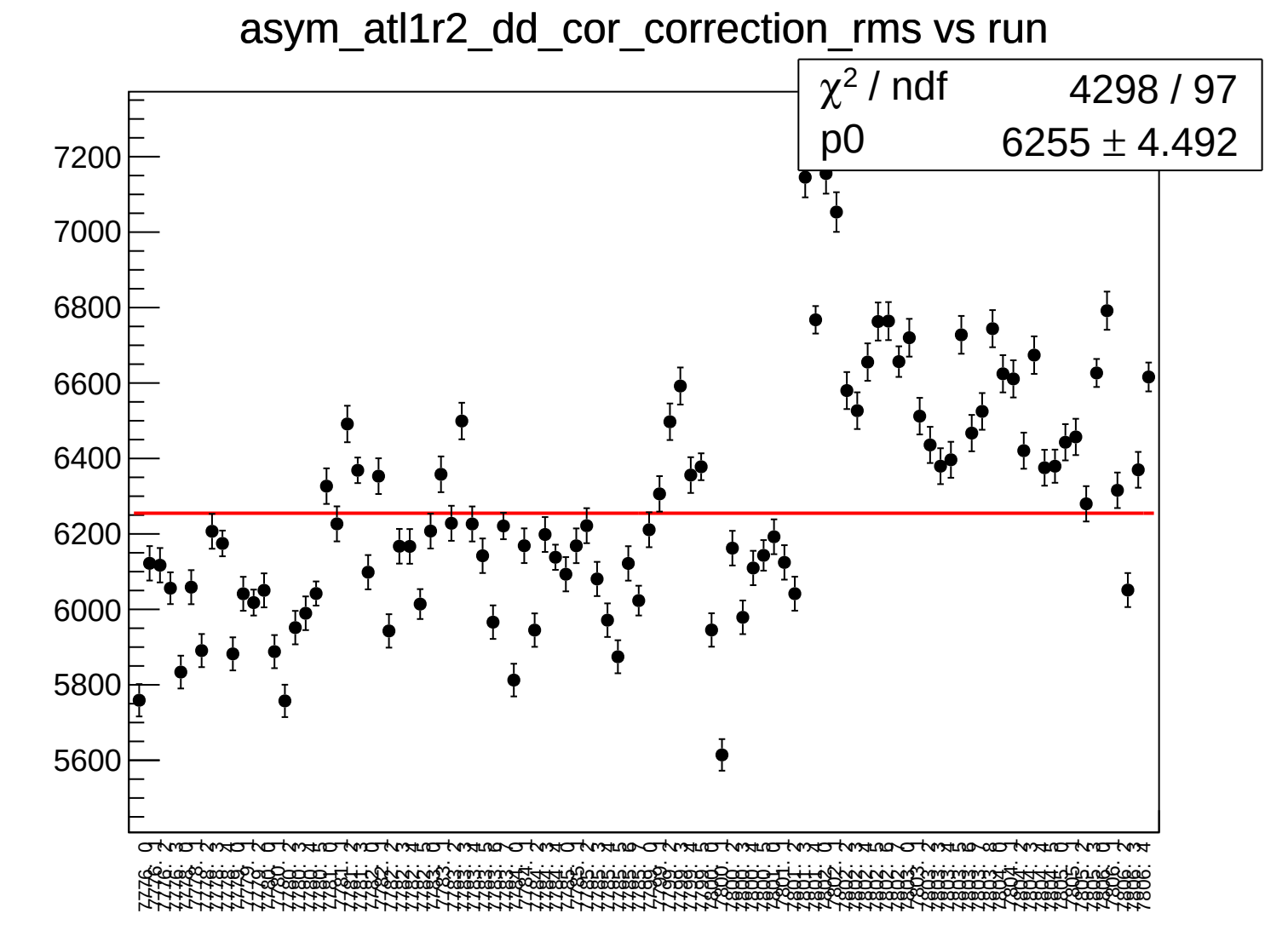

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 81.67 / 97
p0 −101.2 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 12.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

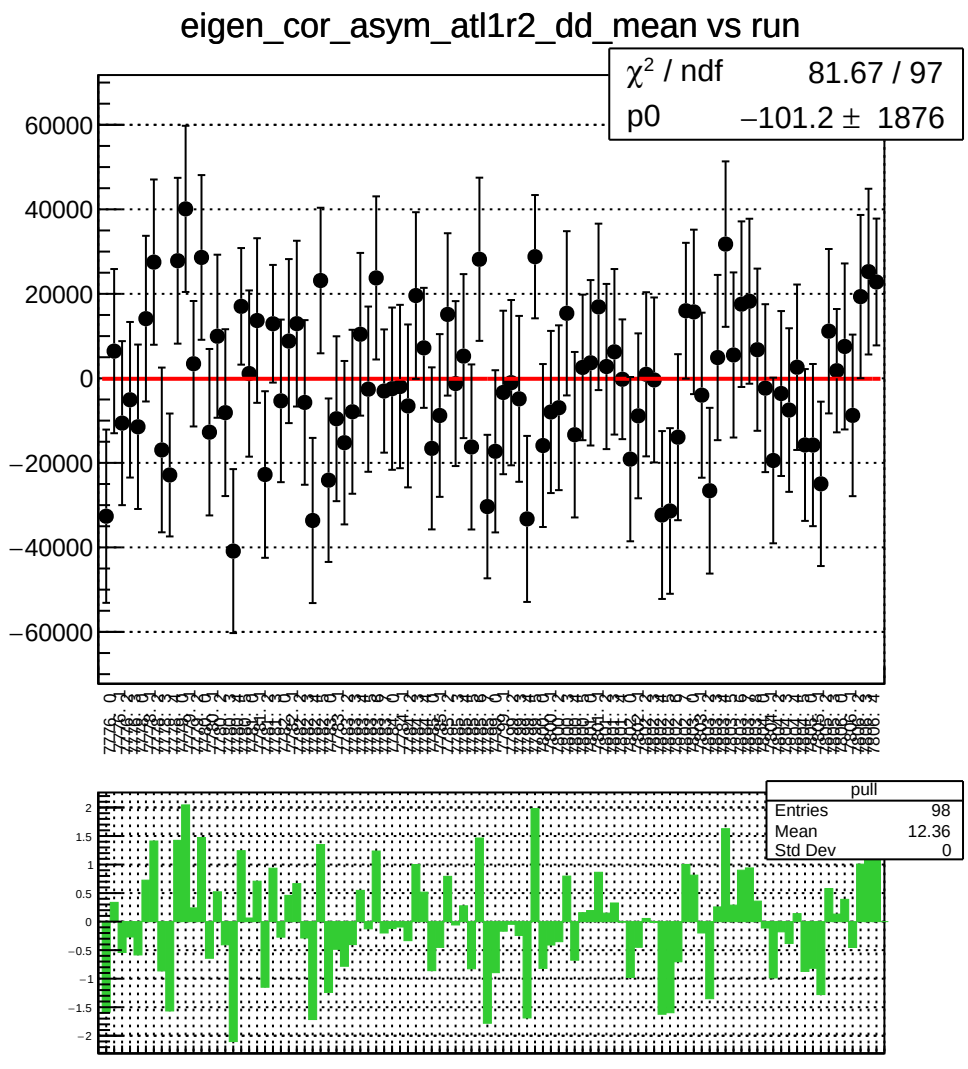

pull1D
Entries 98
Mean −0.01865
Std Dev 0.9127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

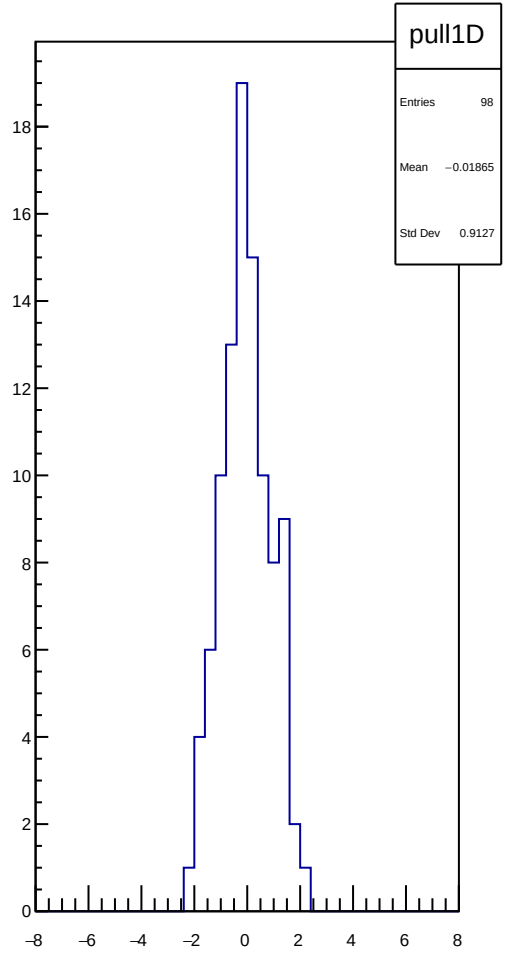

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 164 / 97
p0 1849 ± 1.326
1960
1940
1920
1900
1880
1860
1840
1820
1800

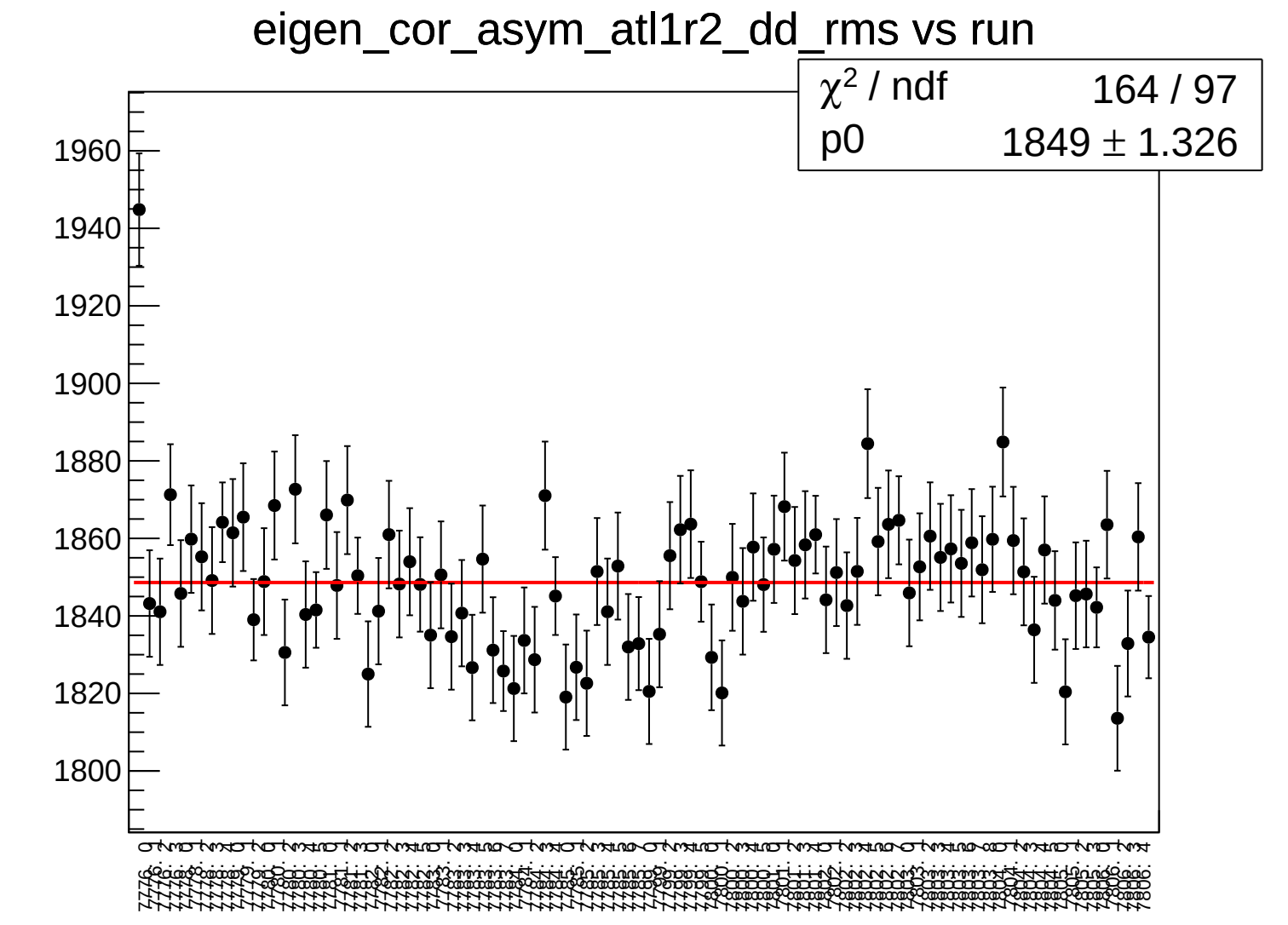

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 81.97 / 97
p0 −5339 ± 6353
200
100
0
−100
−200
pull
Entries 98
Mean 549.1
Std Dev 0
3
2
1
0
−1
−2

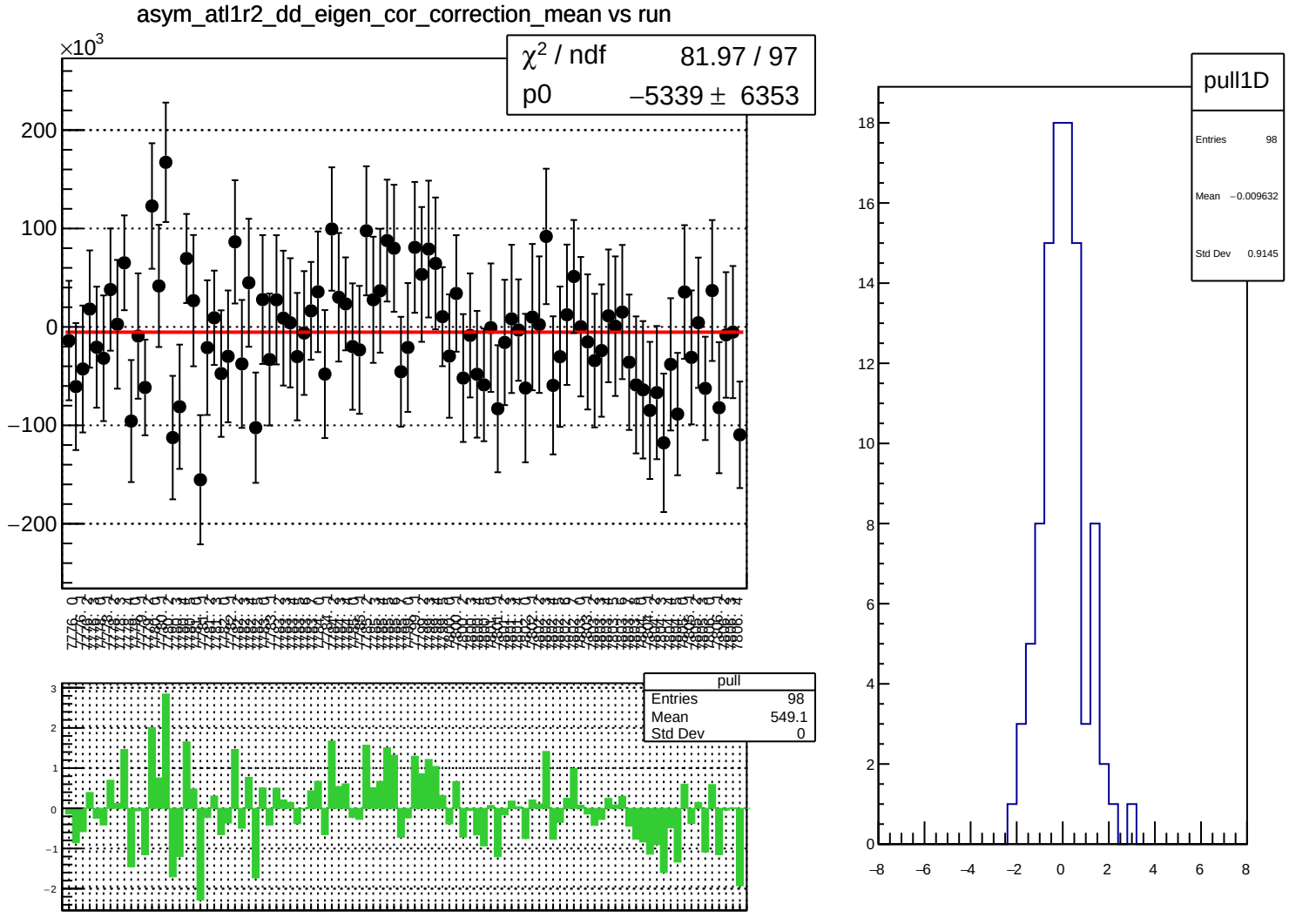

pull1D
Entries 98
Mean −0.009632
Std Dev 0.9145
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

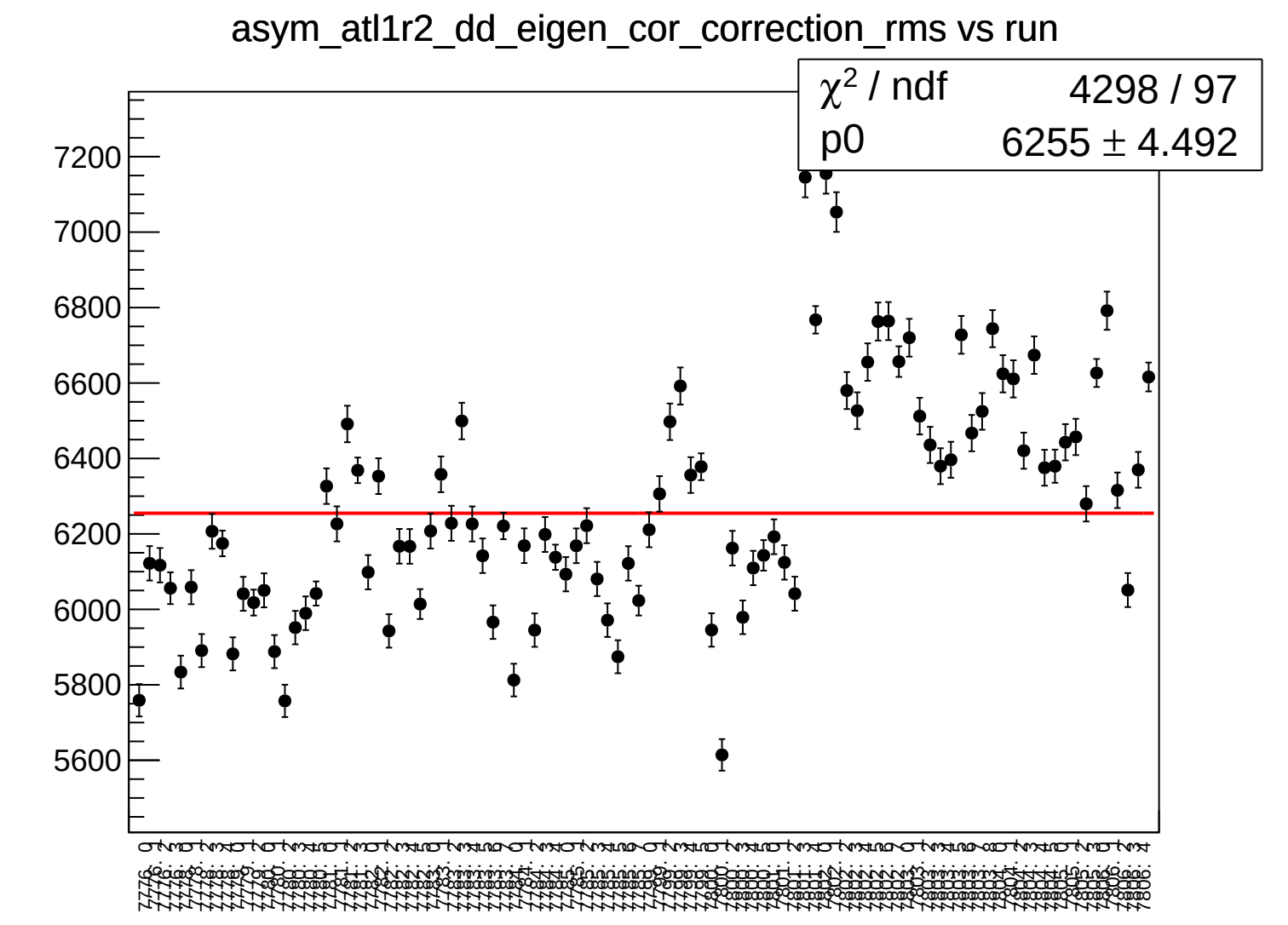

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 4298 / 97
p0 6255 ± 4.492
7200
7000
6800
6600
6400
6200
6000
5800
5600

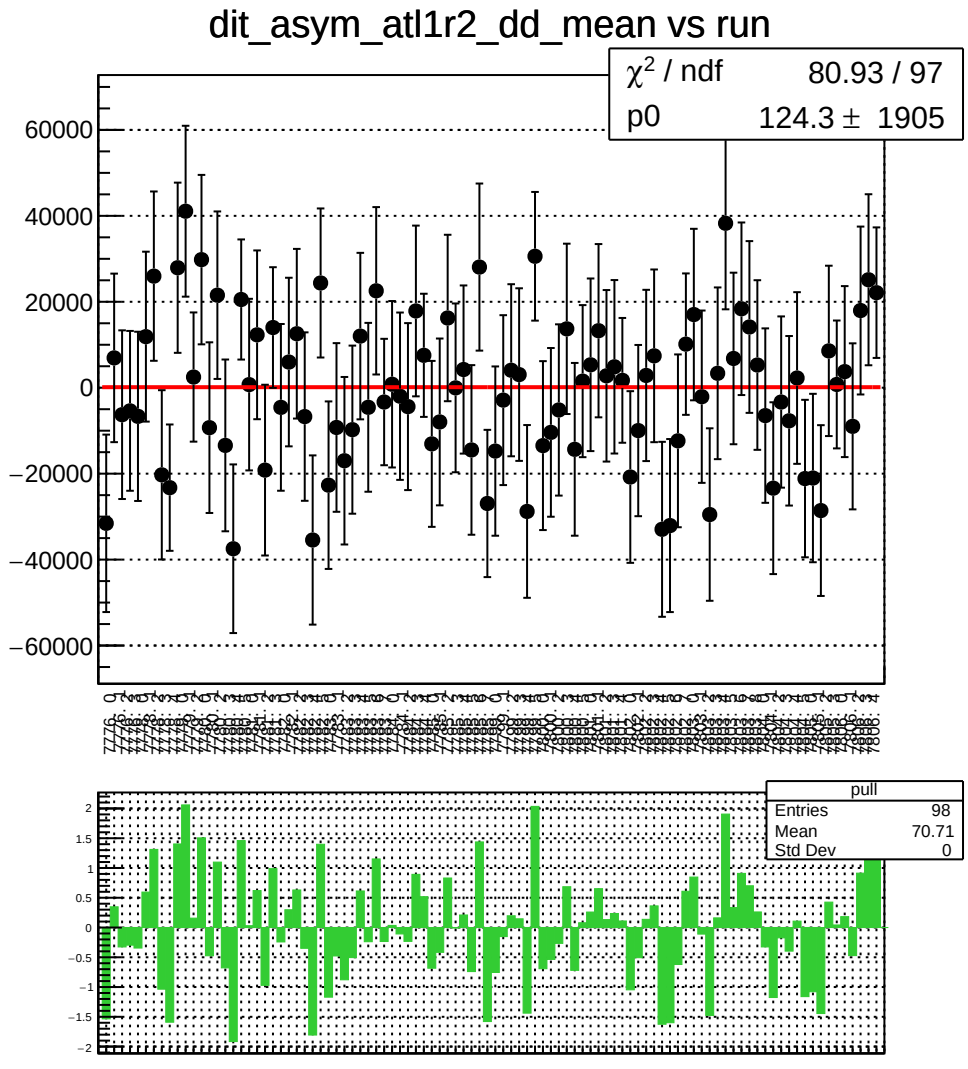

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 81.67 / 97
p0 −101.2 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 12.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

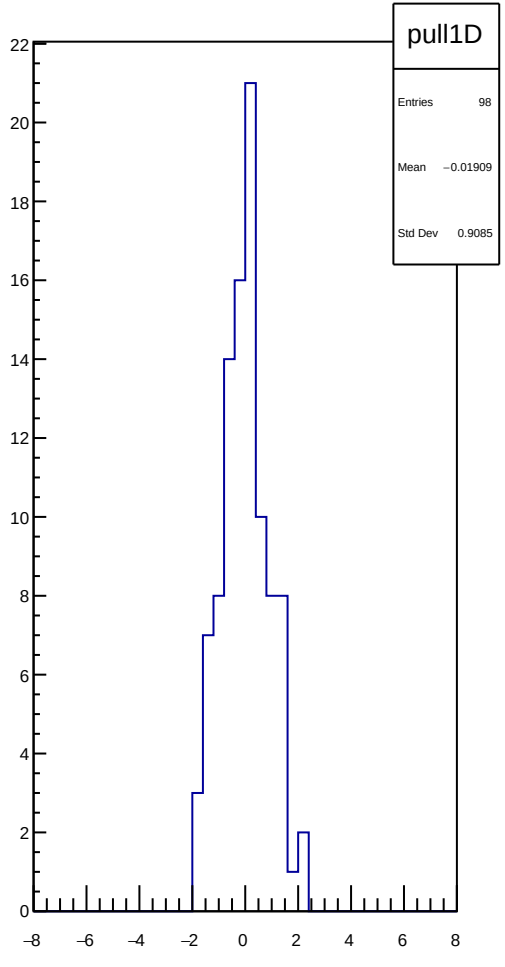

pull1D
Entries 98
Mean −0.01865
Std Dev 0.9127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

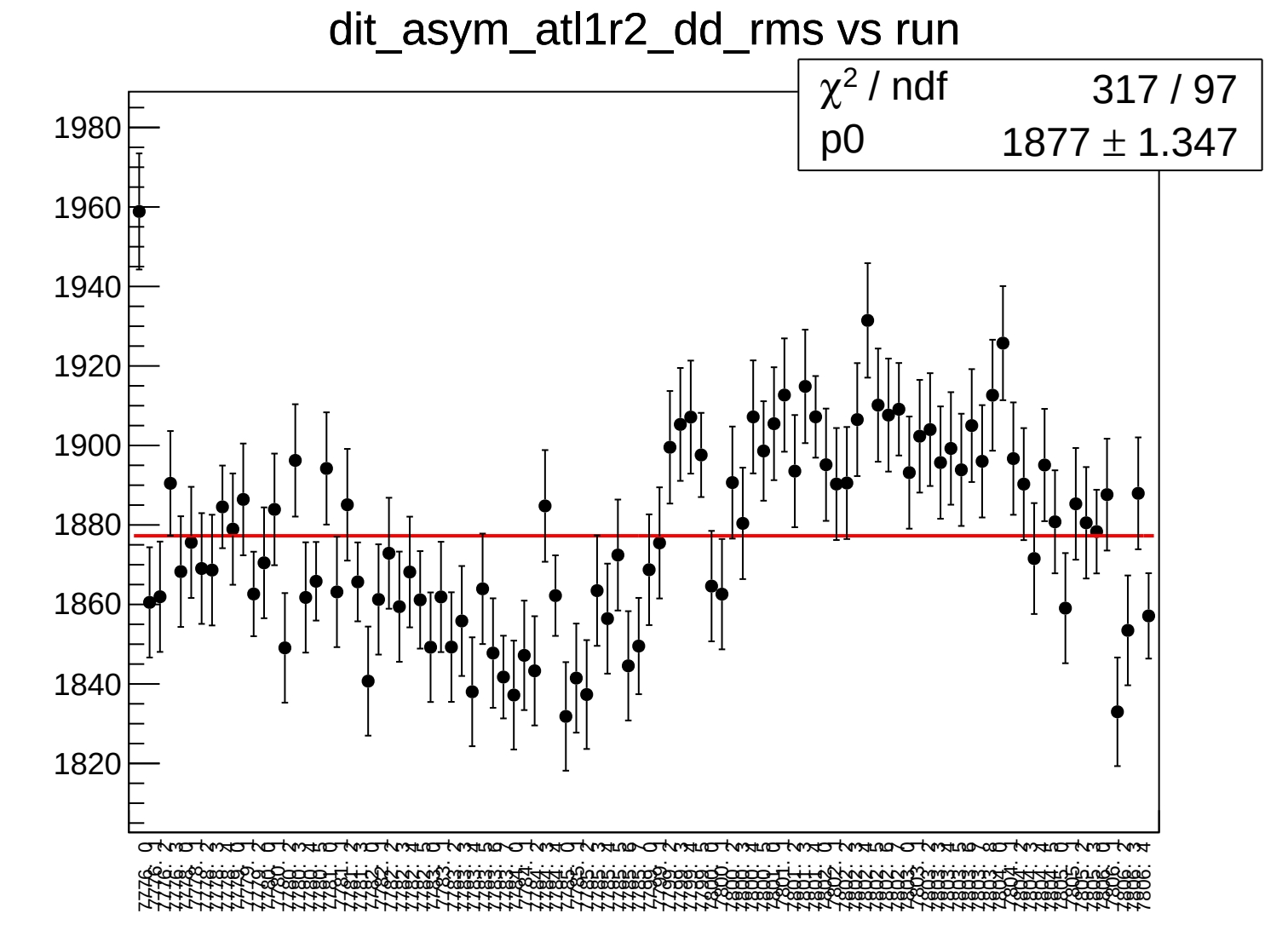

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 164 / 97
p0 1849 ± 1.326
1960
1940
1920
1900
1880
1860
1840
1820
1800

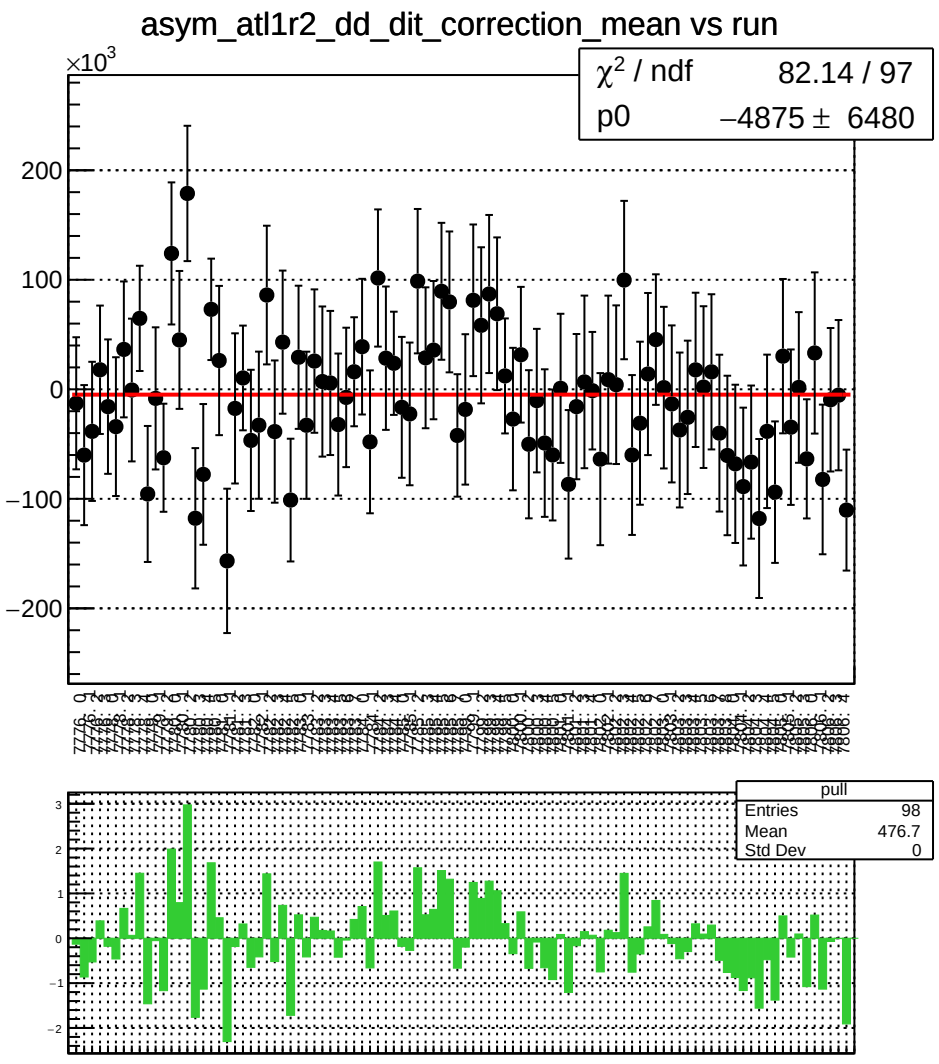

asym_atl1r2_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.97 / 97
p0 −5339 ± 6353
×10³
200
100
0
−100
−200
pull
Entries 98
Mean 549.1
Std Dev 0
pull1D
Entries 98
Mean −0.009632
Std Dev 0.9145
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

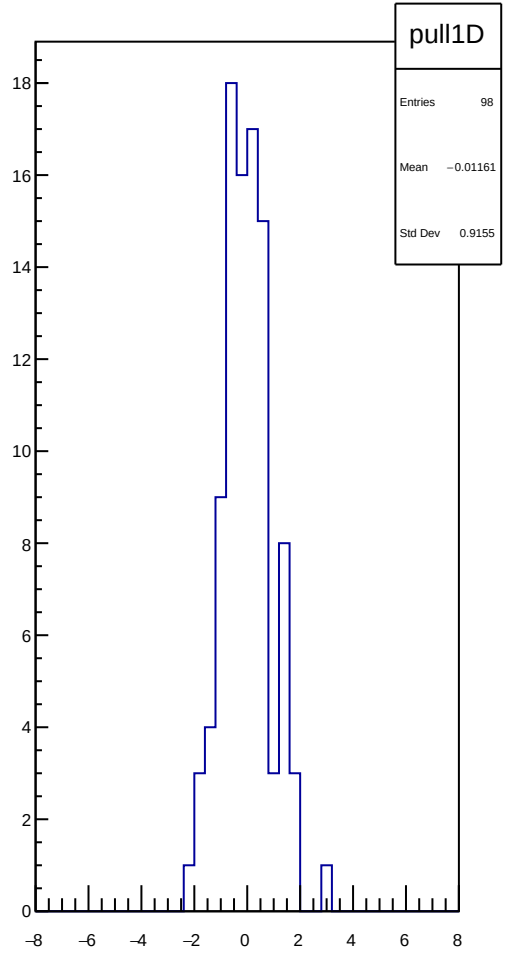

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4298 / 97
p0 6255 ± 4.492
7200
7000
6800
6600
6400
6200
6000
5800
5600

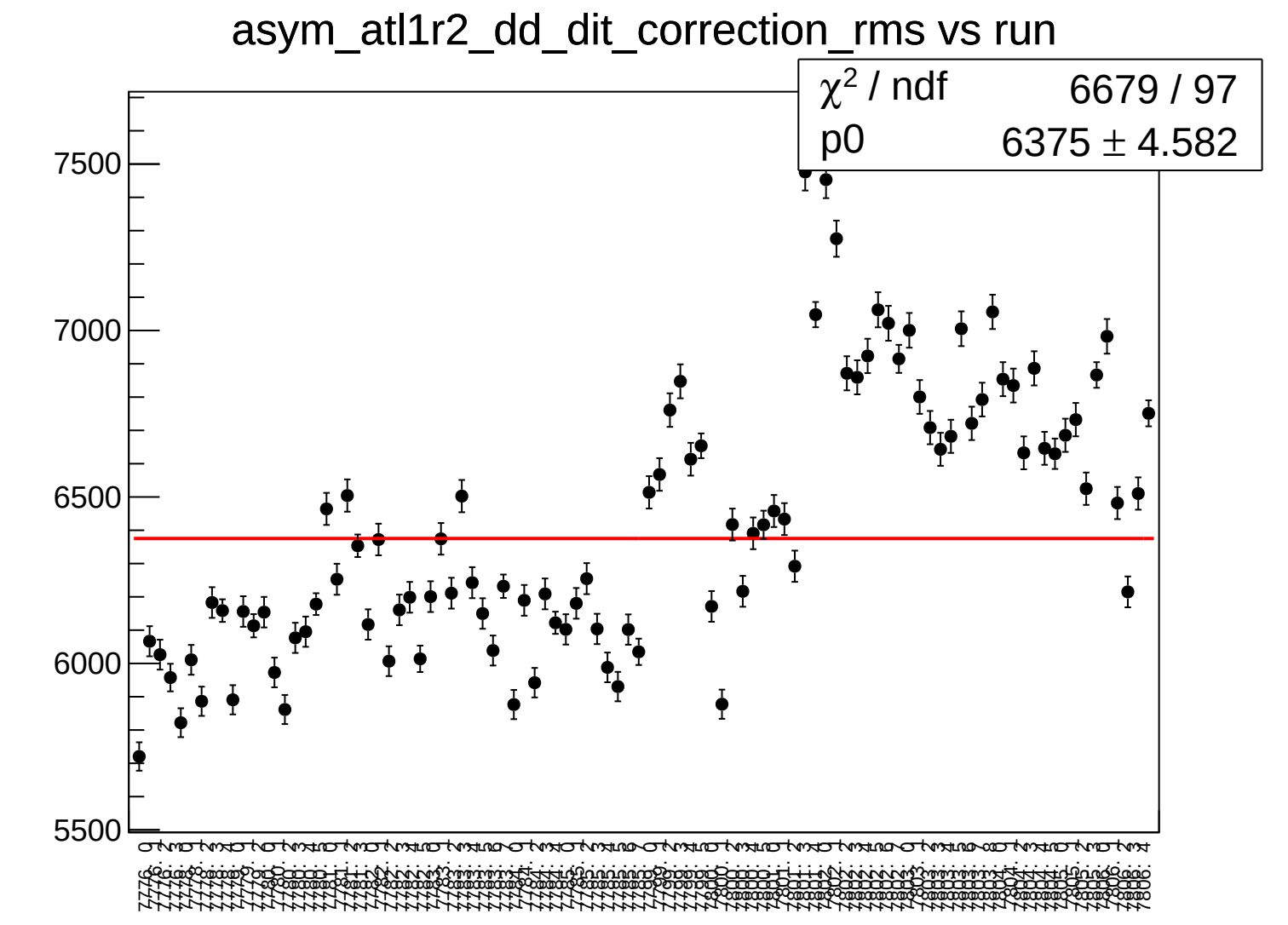

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 80.93 / 97
p0 124.3 ± 1905
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 70.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

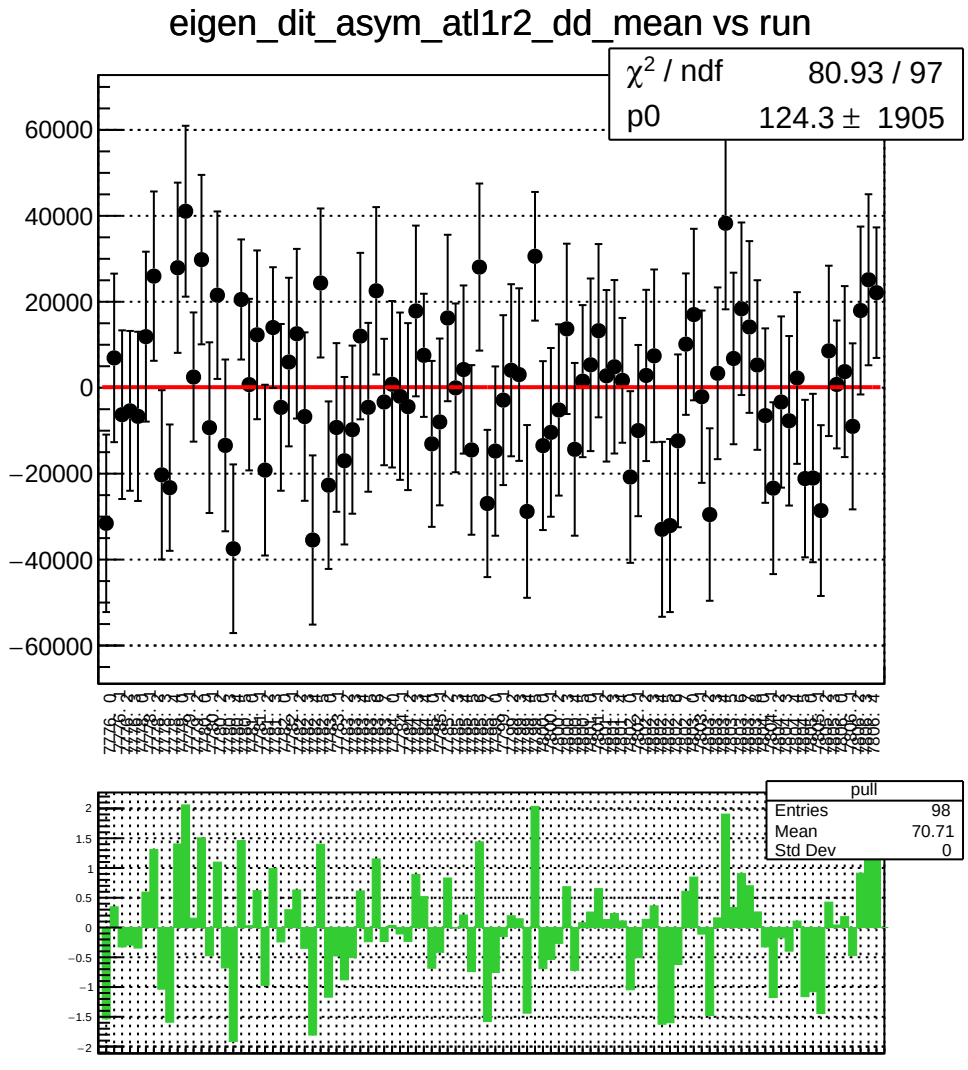

pull1D
Entries 98
Mean −0.01909
Std Dev 0.9085
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

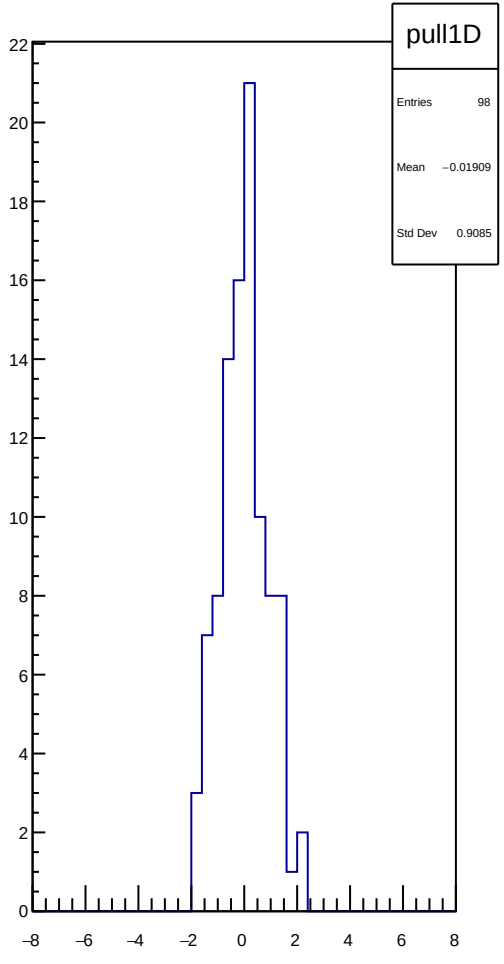

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 317 / 97
p0 1877 ± 1.347
1980
1960
1940
1920
1900
1880
1860
1840
1820

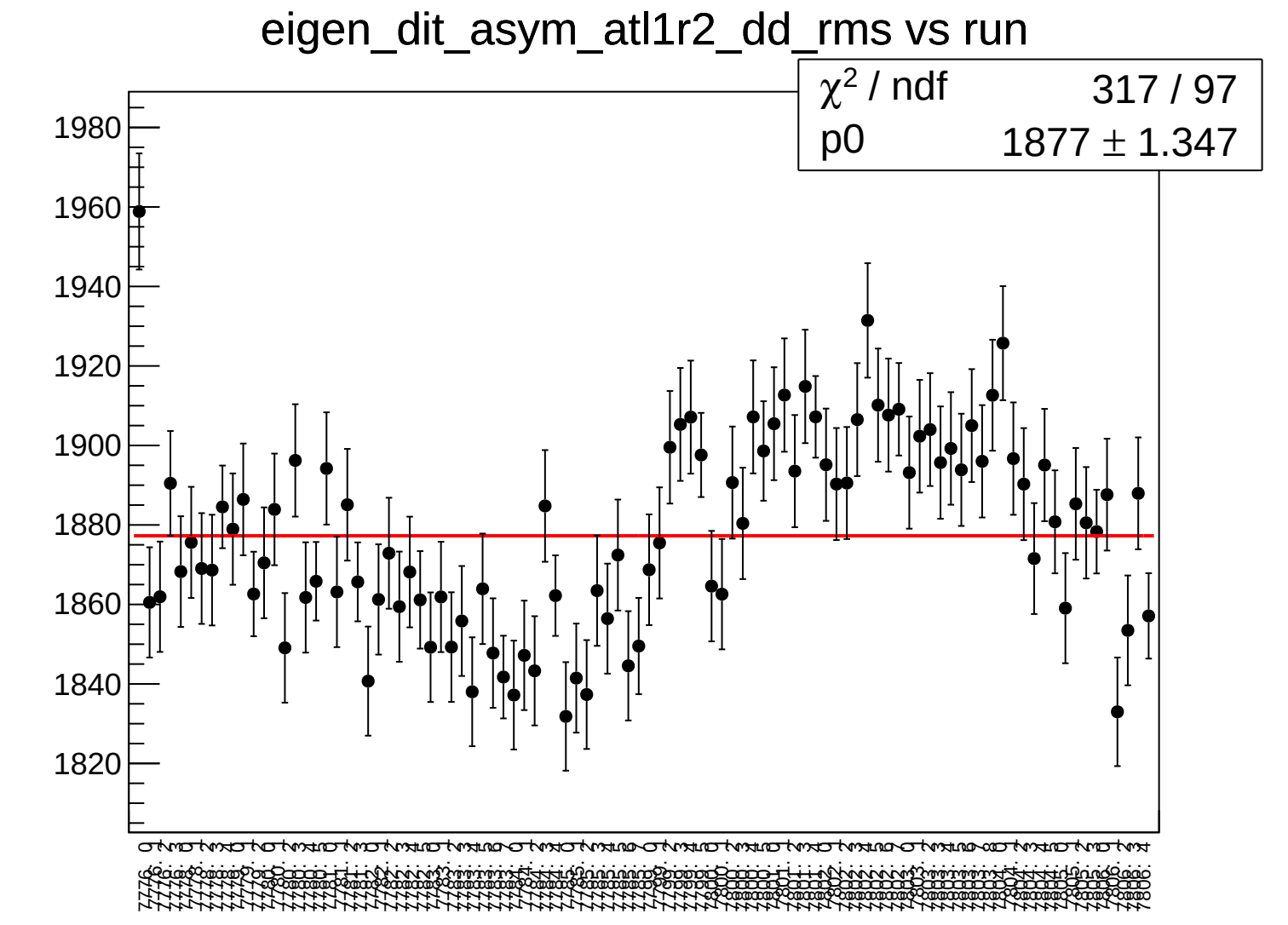

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.14 / 97
p0 −4875 ± 6480
200
100
0
−100
−200
pull
Entries 98
Mean 476.7
Std Dev 0
3
2
1
0
−1
−2

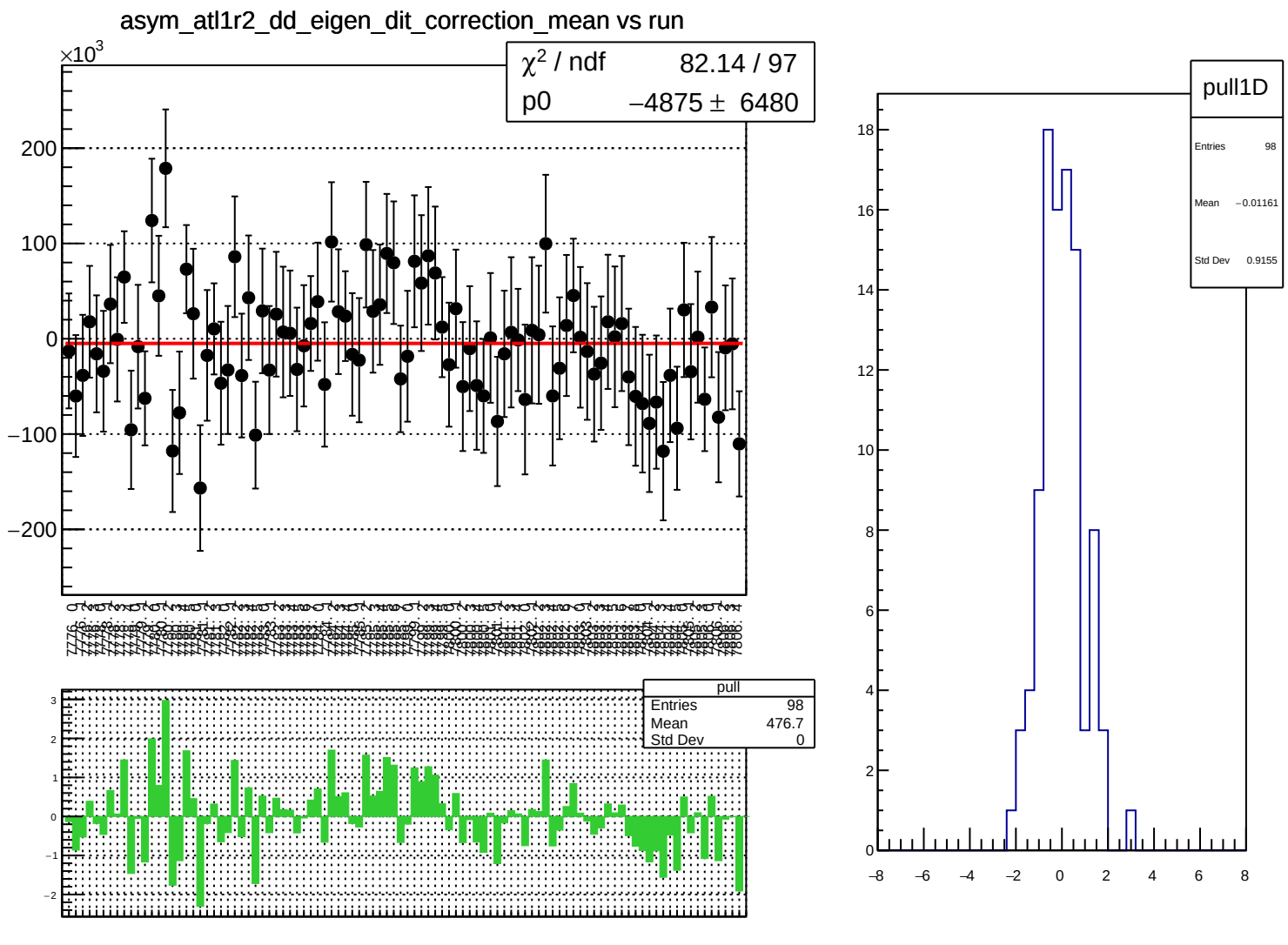

pull1D
Entries 98
Mean −0.01161
Std Dev 0.9155
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

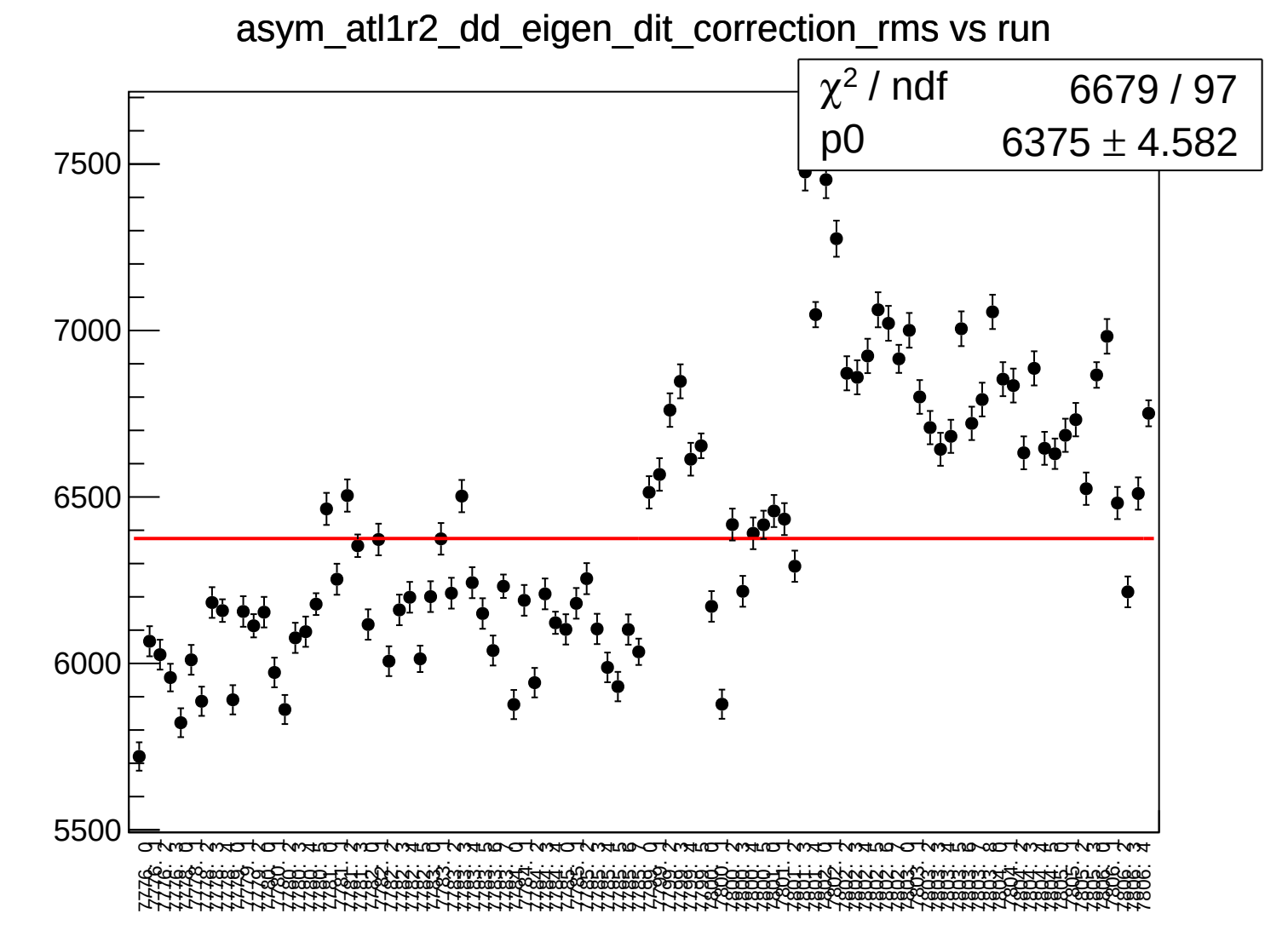

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 6679 / 97
p0 6375 ± 4.582
7500
7000
6500
6000
5500

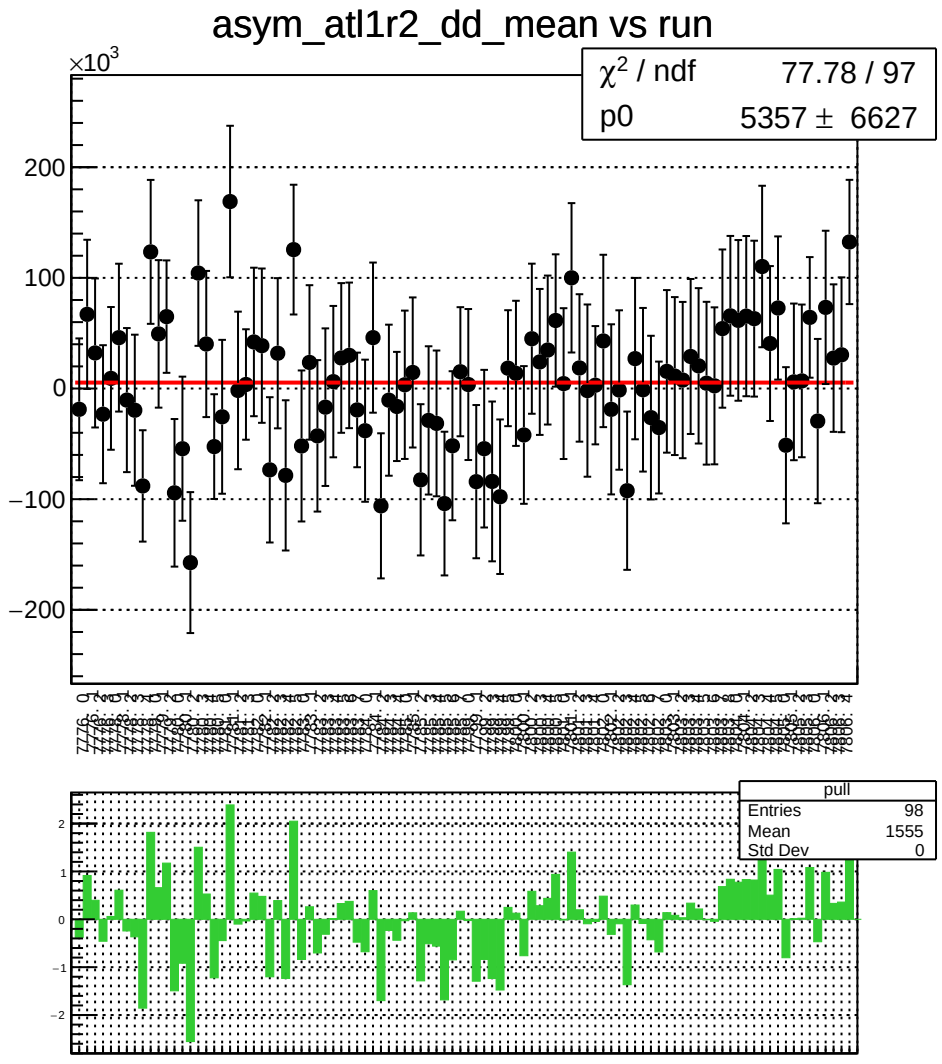

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 80.93 / 97
p0 124.3 ± 1905
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 70.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

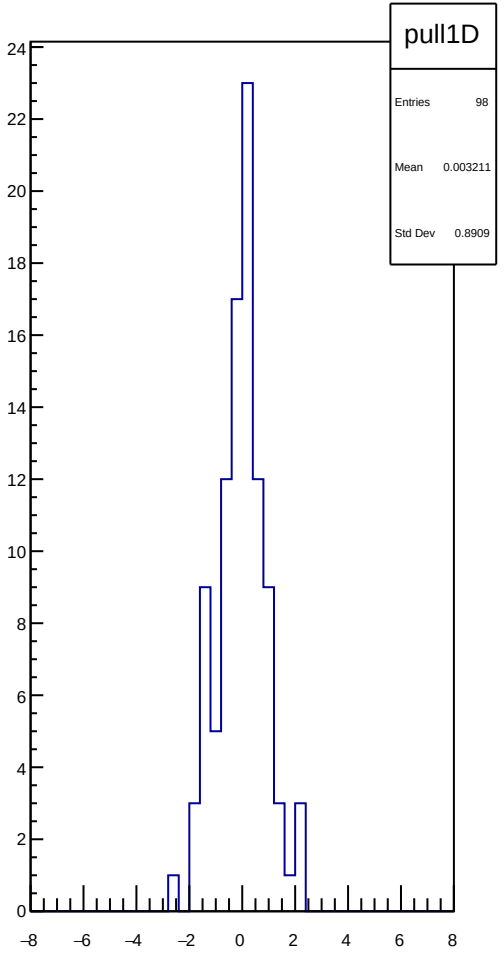

pull1D
Entries 98
Mean −0.01909
Std Dev 0.9085
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

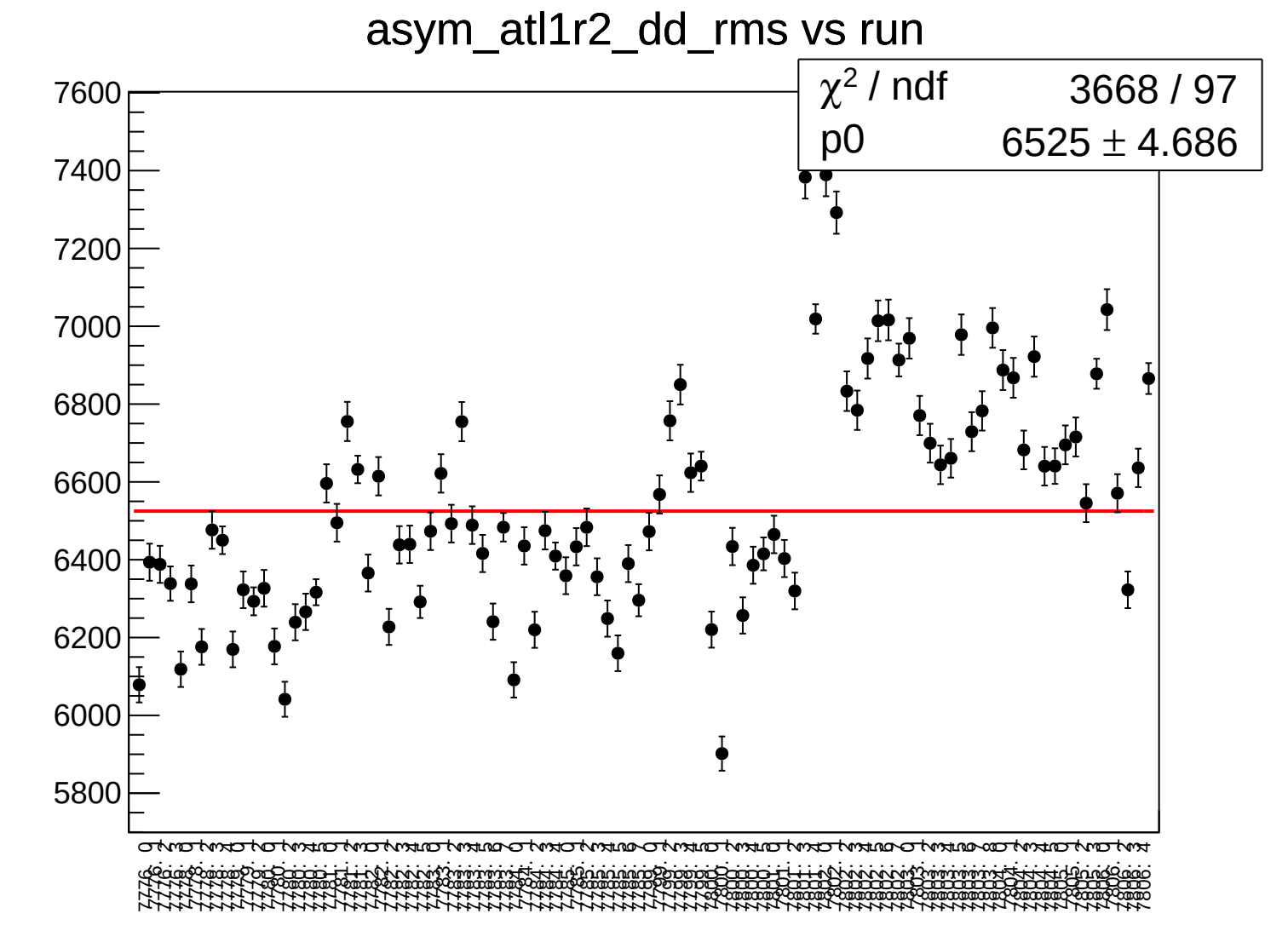

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 317 / 97
p0 1877 ± 1.347
1980
1960
1940
1920
1900
1880
1860
1840
1820

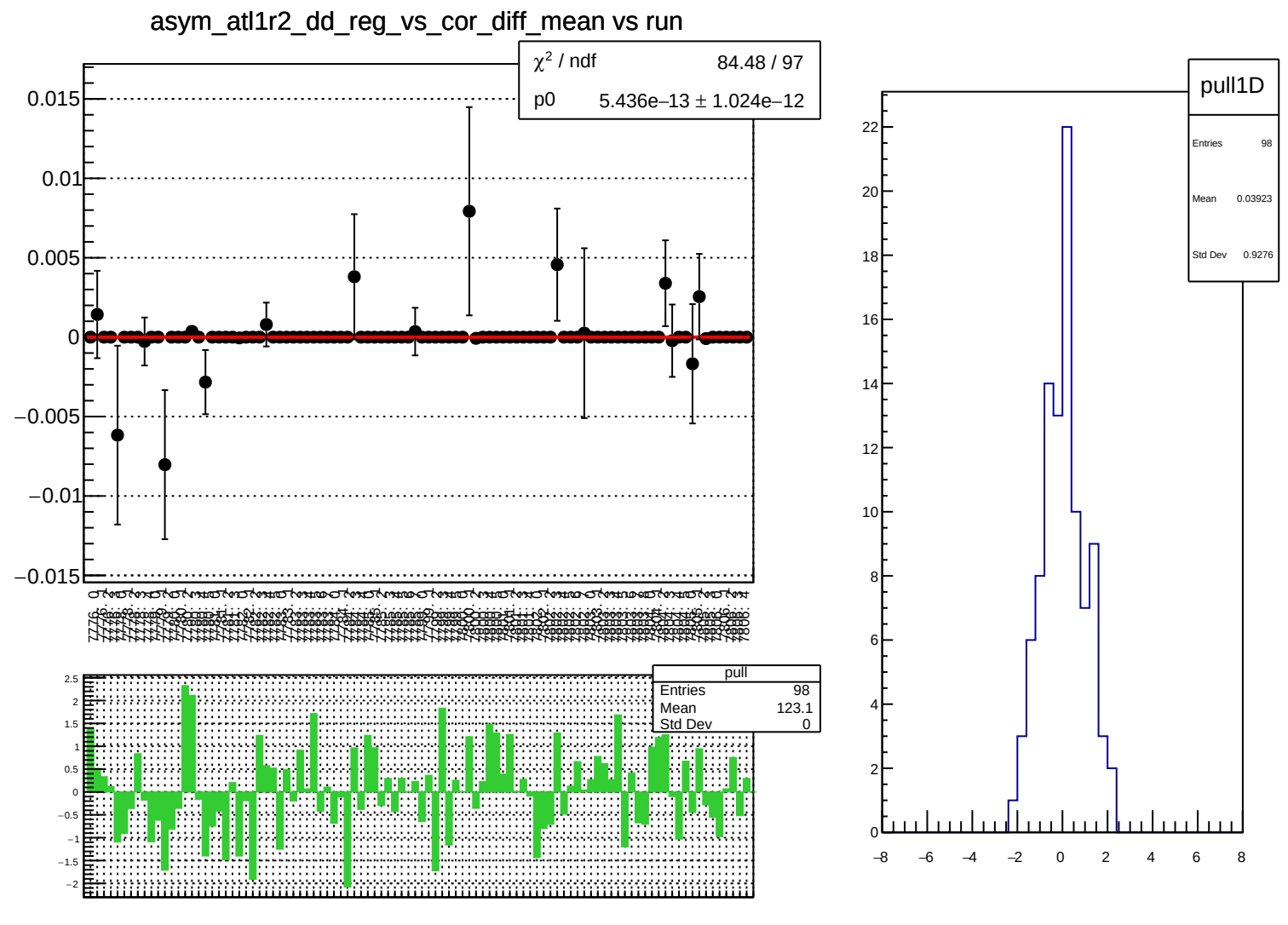

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.14 / 97
p0 −4875 ± 6480
200
100
0
−100
−200
pull
Entries 98
Mean 476.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01161
Std Dev 0.9155
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

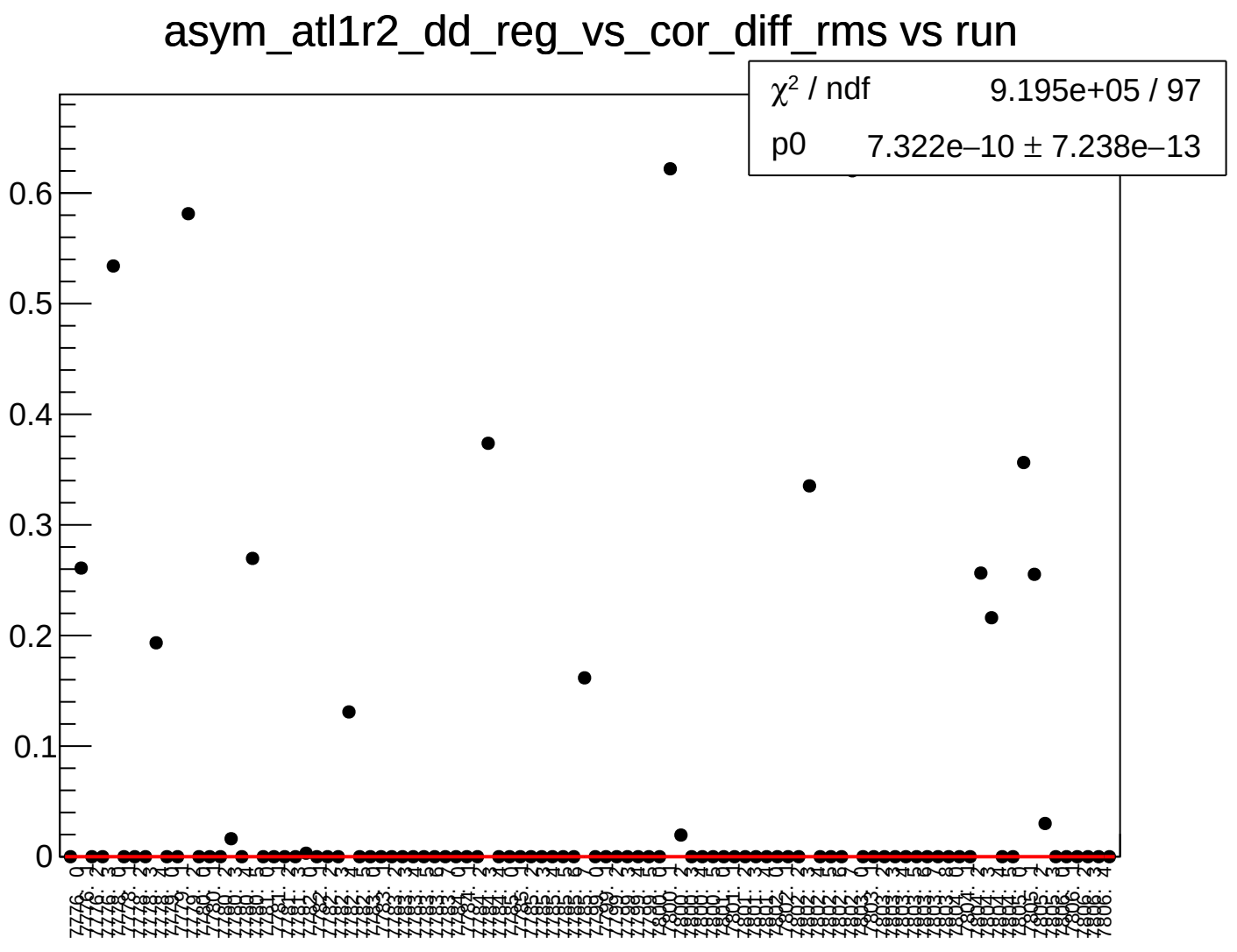

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6679 / 97
p0 6375 ± 4.582
7500
7000
6500
6000
5500

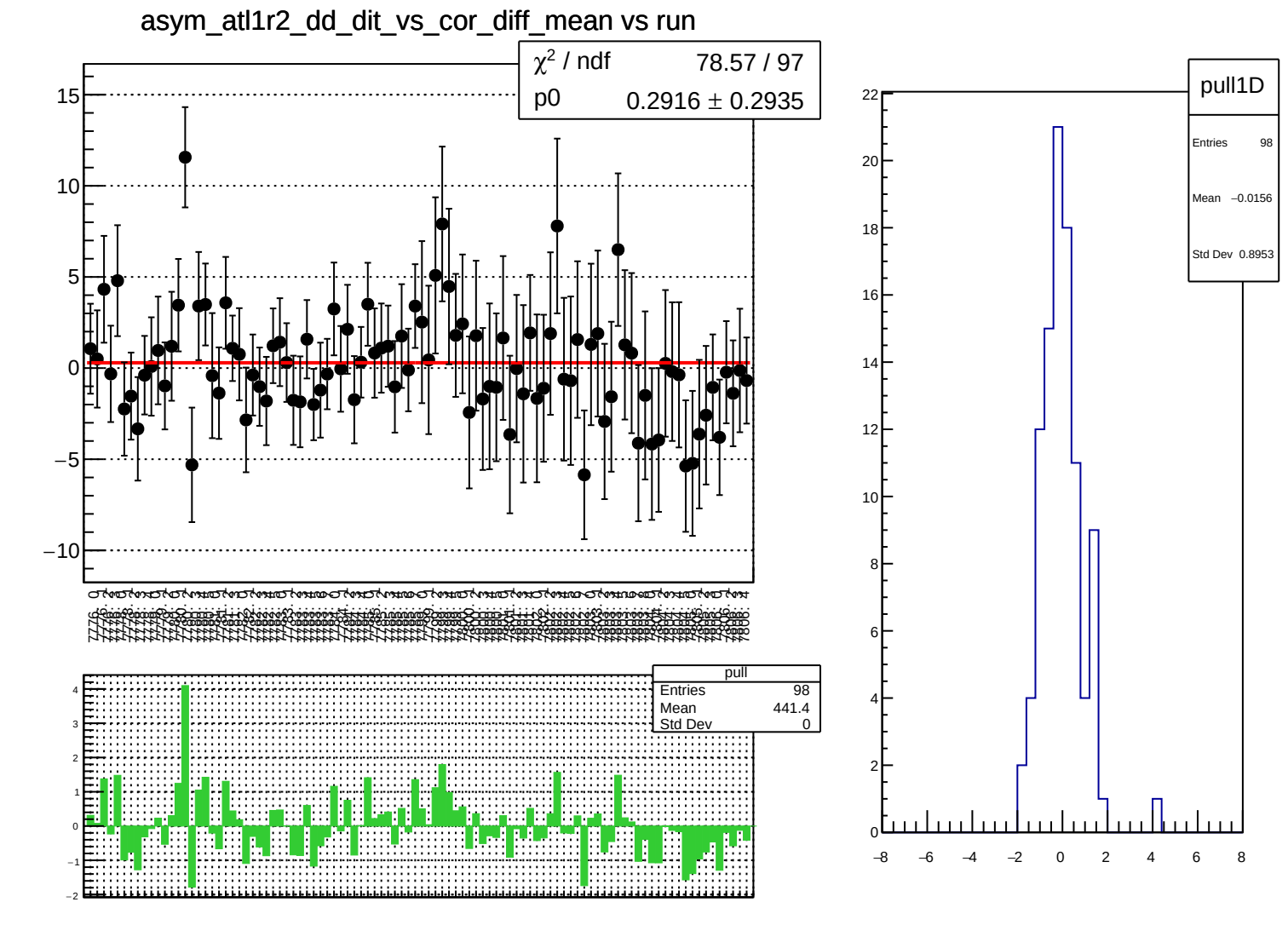

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 77.78 / 97
p0 5357 ± 6627
200
100
0
−100
−200
pull
Entries 98
Mean 1555
Std Dev 0
2
1
0
−1
−2

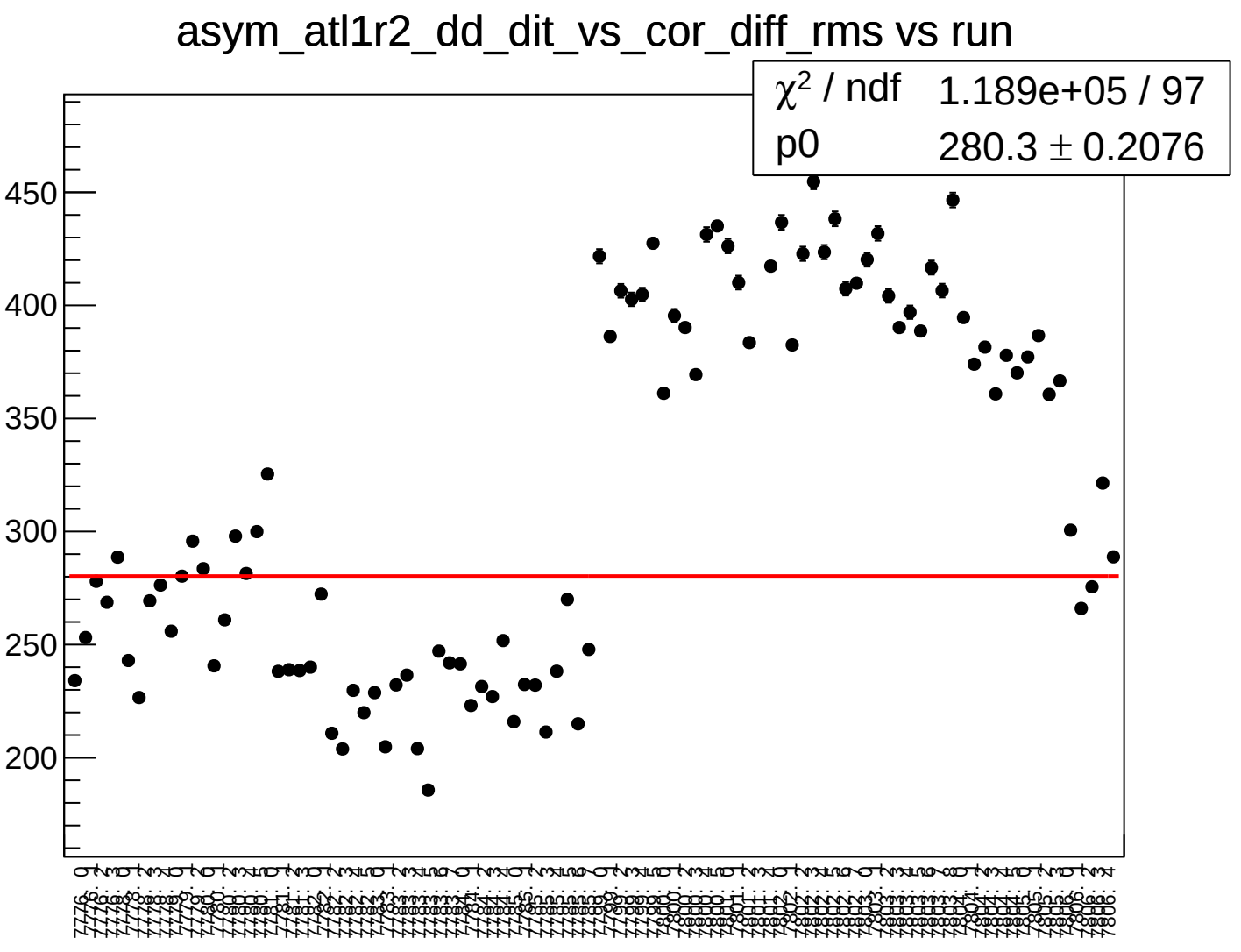

pull1D
Entries 98
Mean 0.003211
Std Dev 0.8909
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

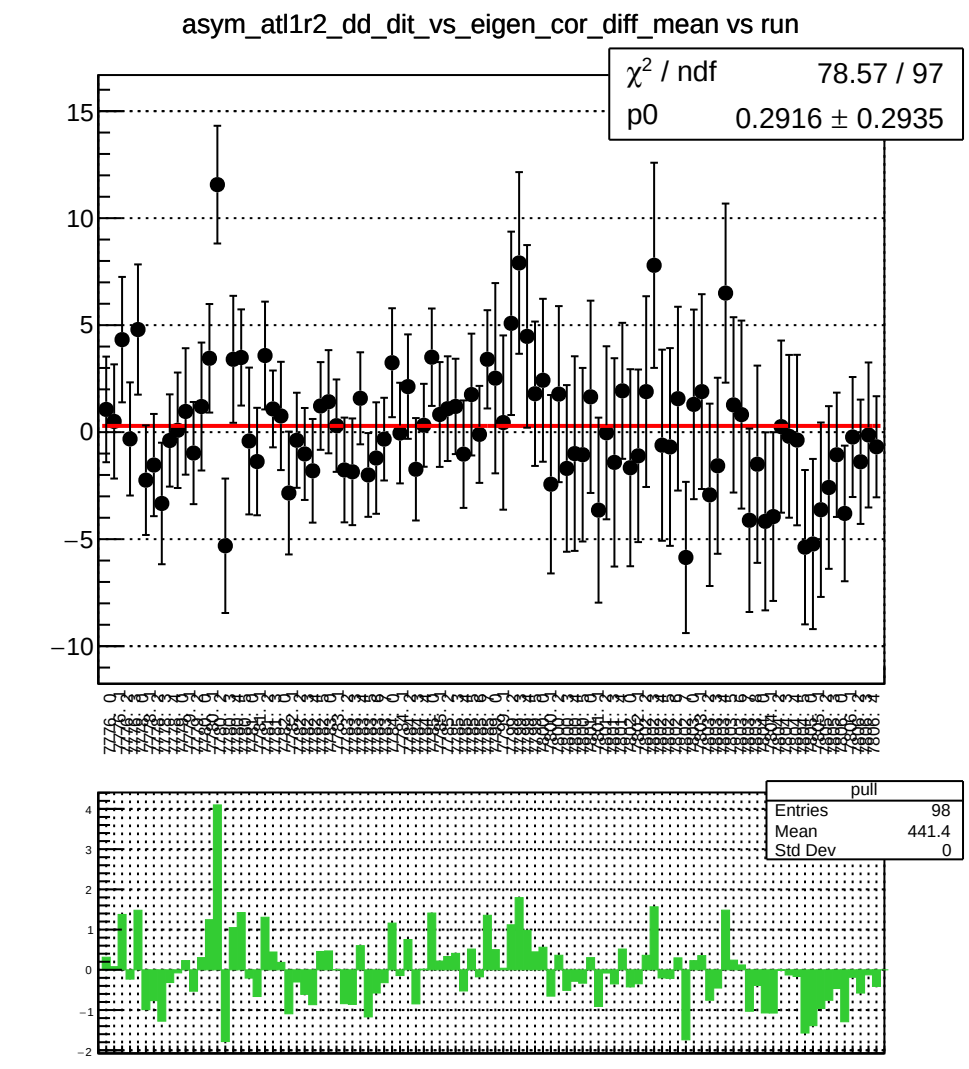

asym_atl1r2_dd_rms vs run
χ^2 / ndf 3668 / 97
p0 6525 ± 4.686
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

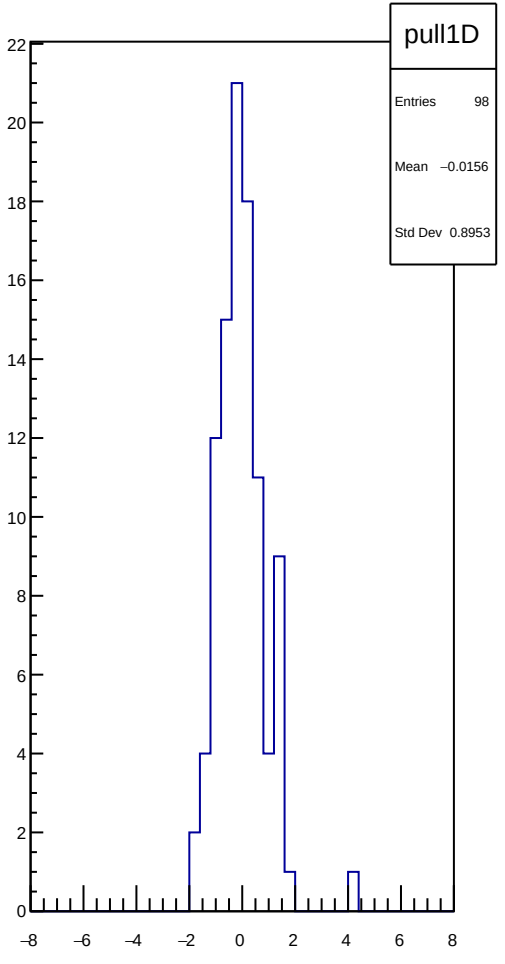

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.48 / 97
p0 5.436e−13 ± 1.024e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 98
Mean 123.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.03923
Std Dev 0.9276
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

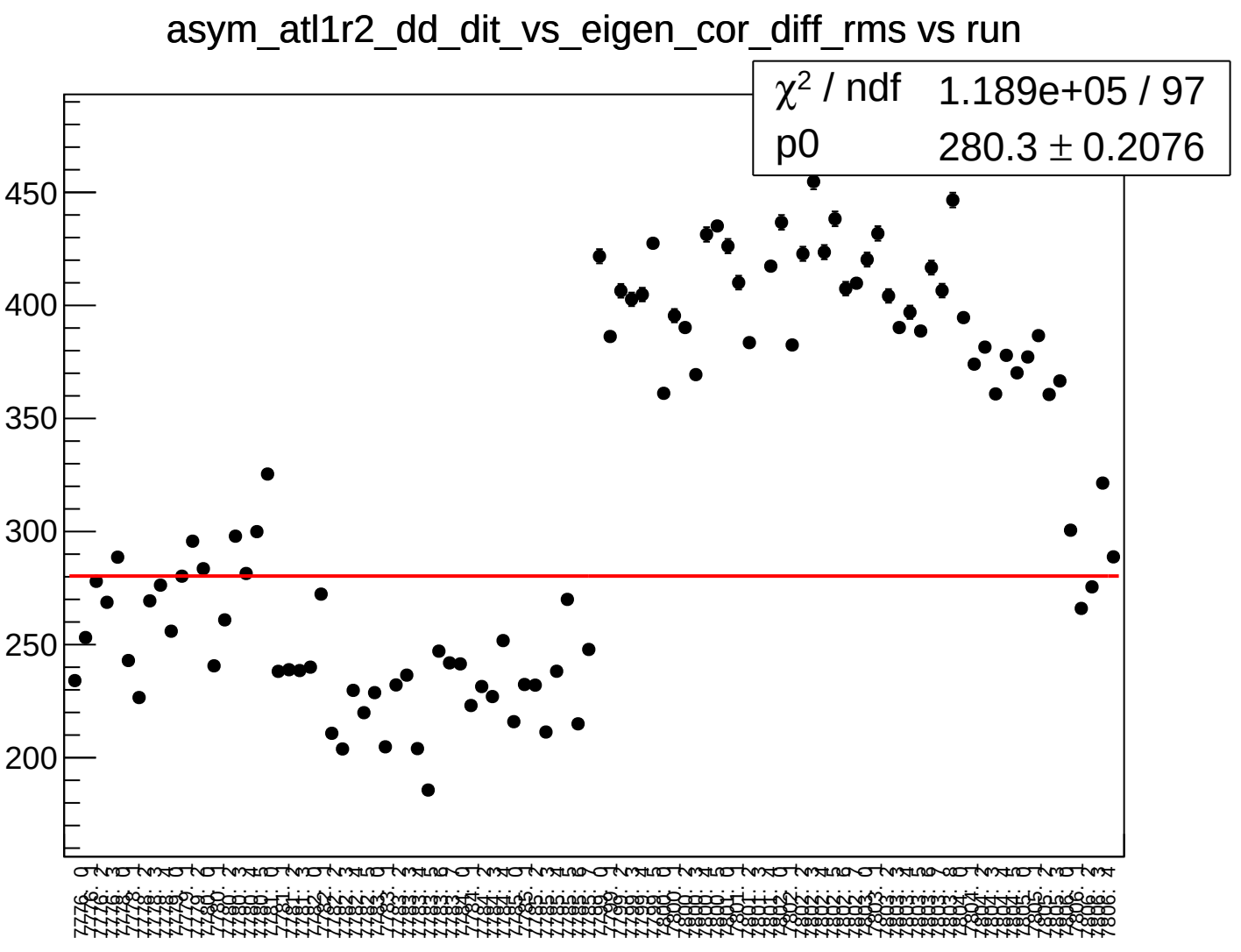

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.195e+05 / 97
p0 7.322e−10 ± 7.238e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

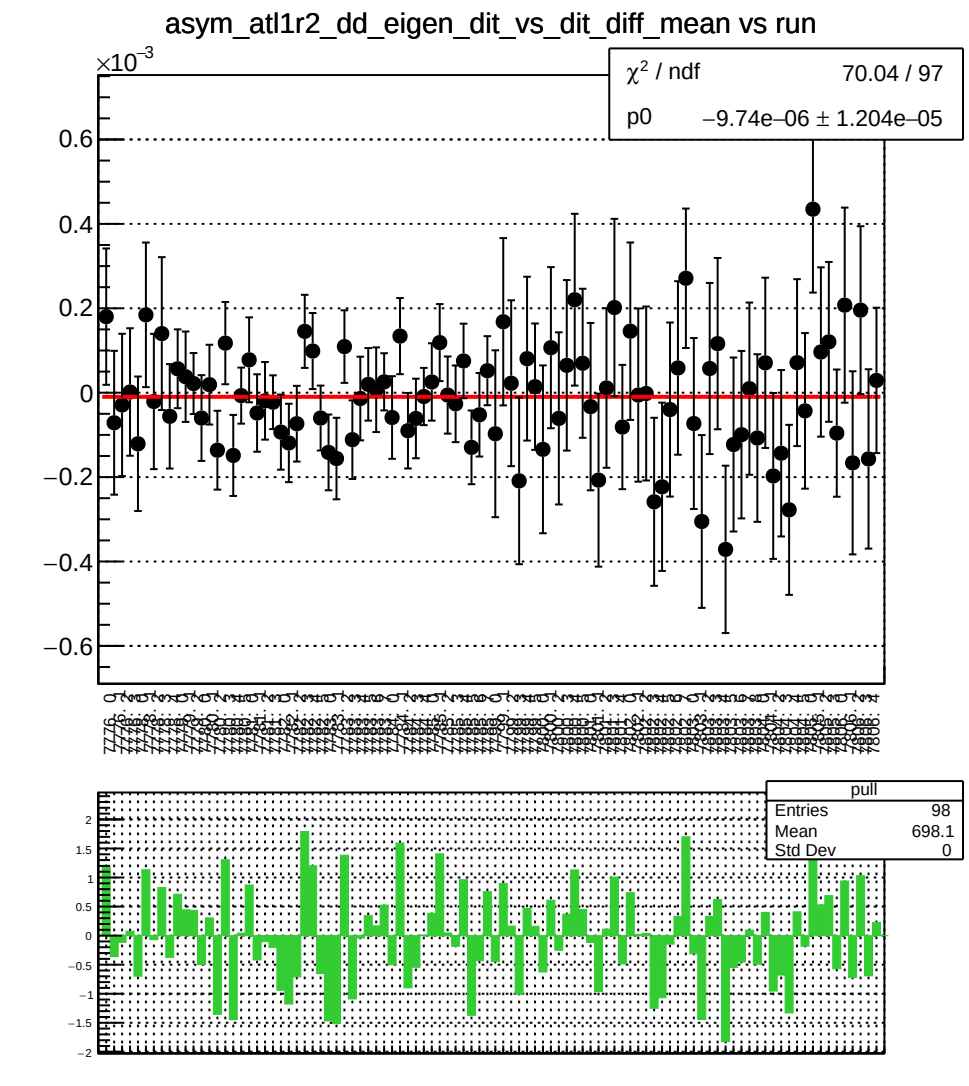

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.57 / 97
p0 0.2916 ± 0.2935
pull
Entries 98
Mean 441.4
Std Dev 0
pull1D
Entries 98
Mean −0.0156
Std Dev 0.8953

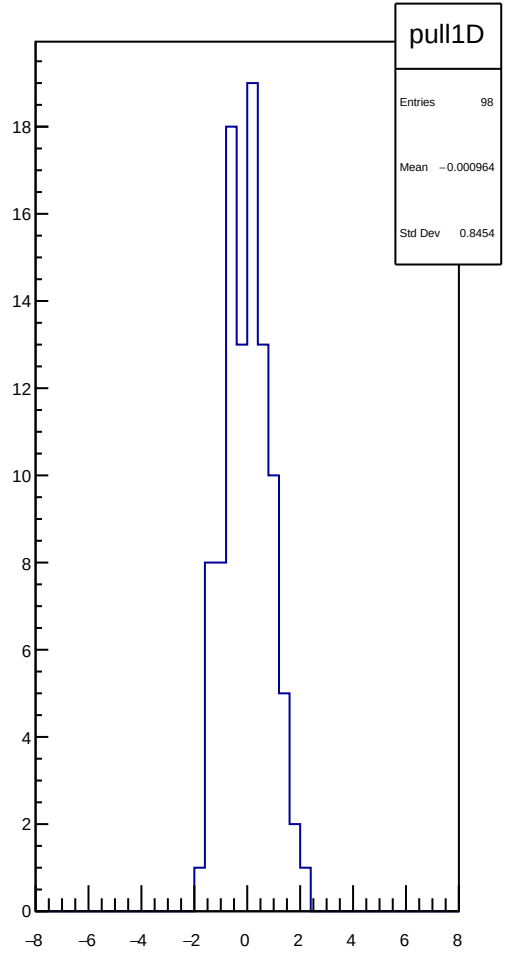

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.189e+05 / 97
p0 280.3 ± 0.2076
450
400
350
300
250
200

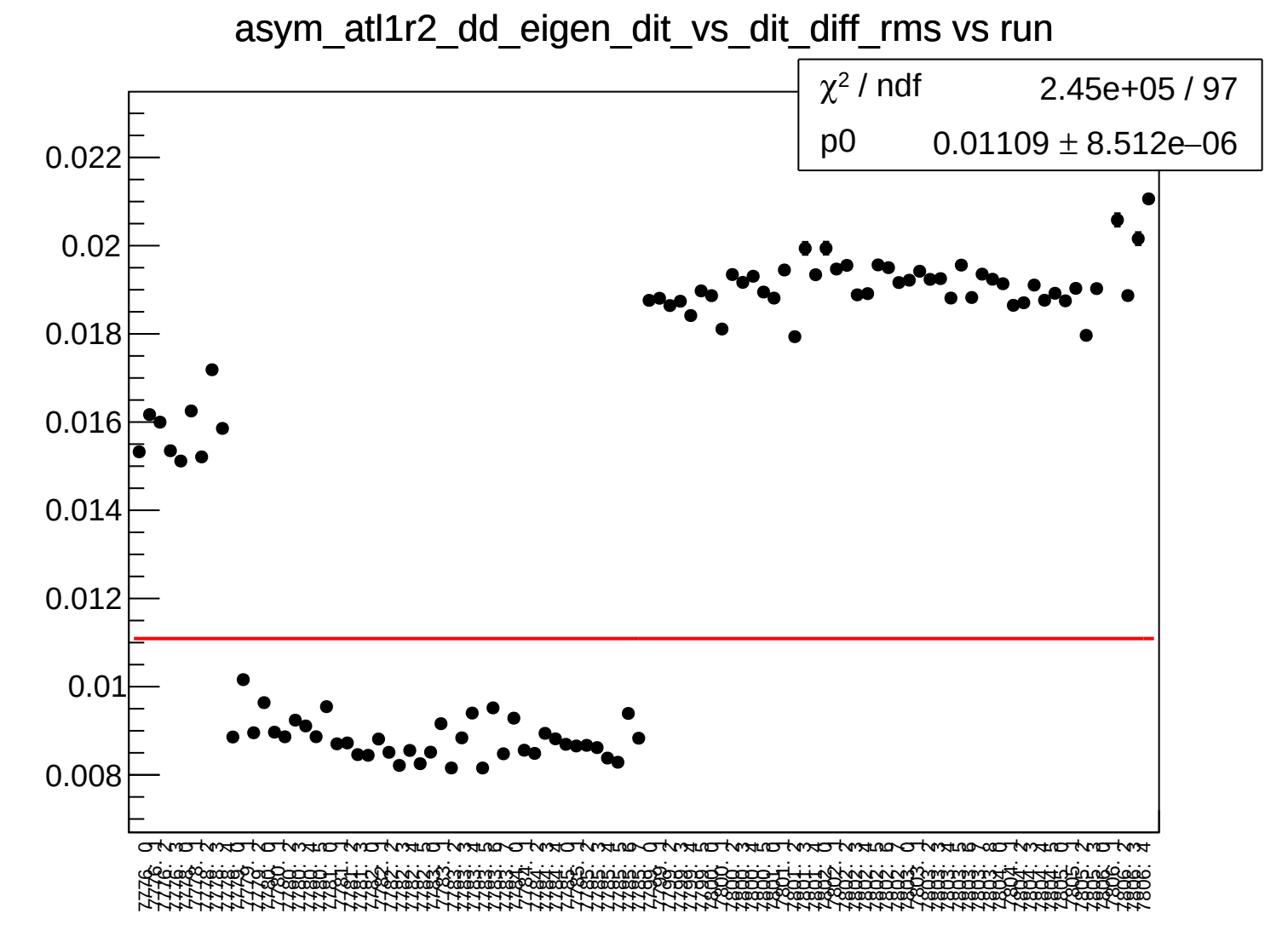

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.57 / 97
p0 0.2916 ± 0.2935
pull
Entries 98
Mean 441.4
Std Dev 0

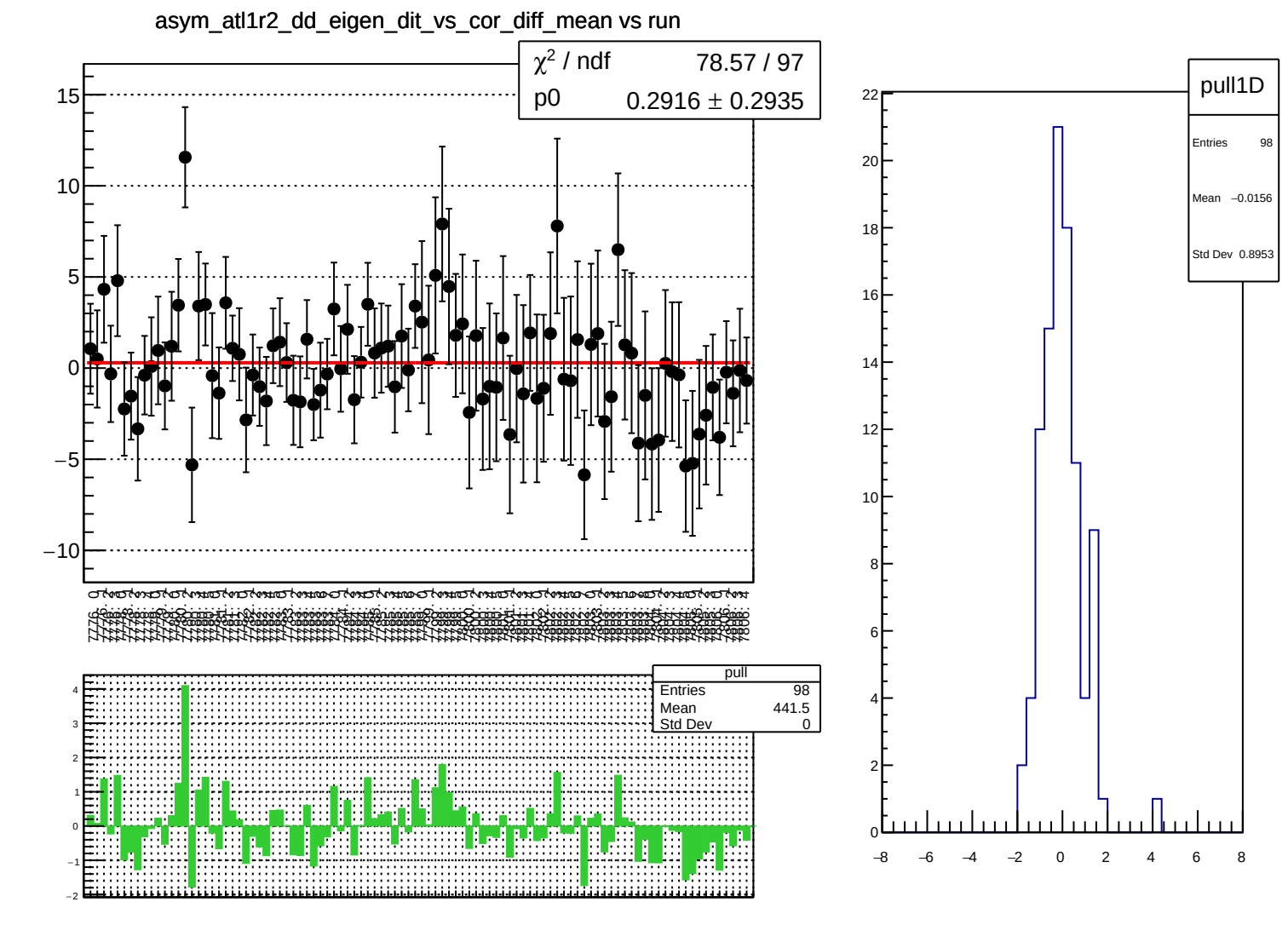

pull1D
Entries 98
Mean −0.0156
Std Dev 0.8953

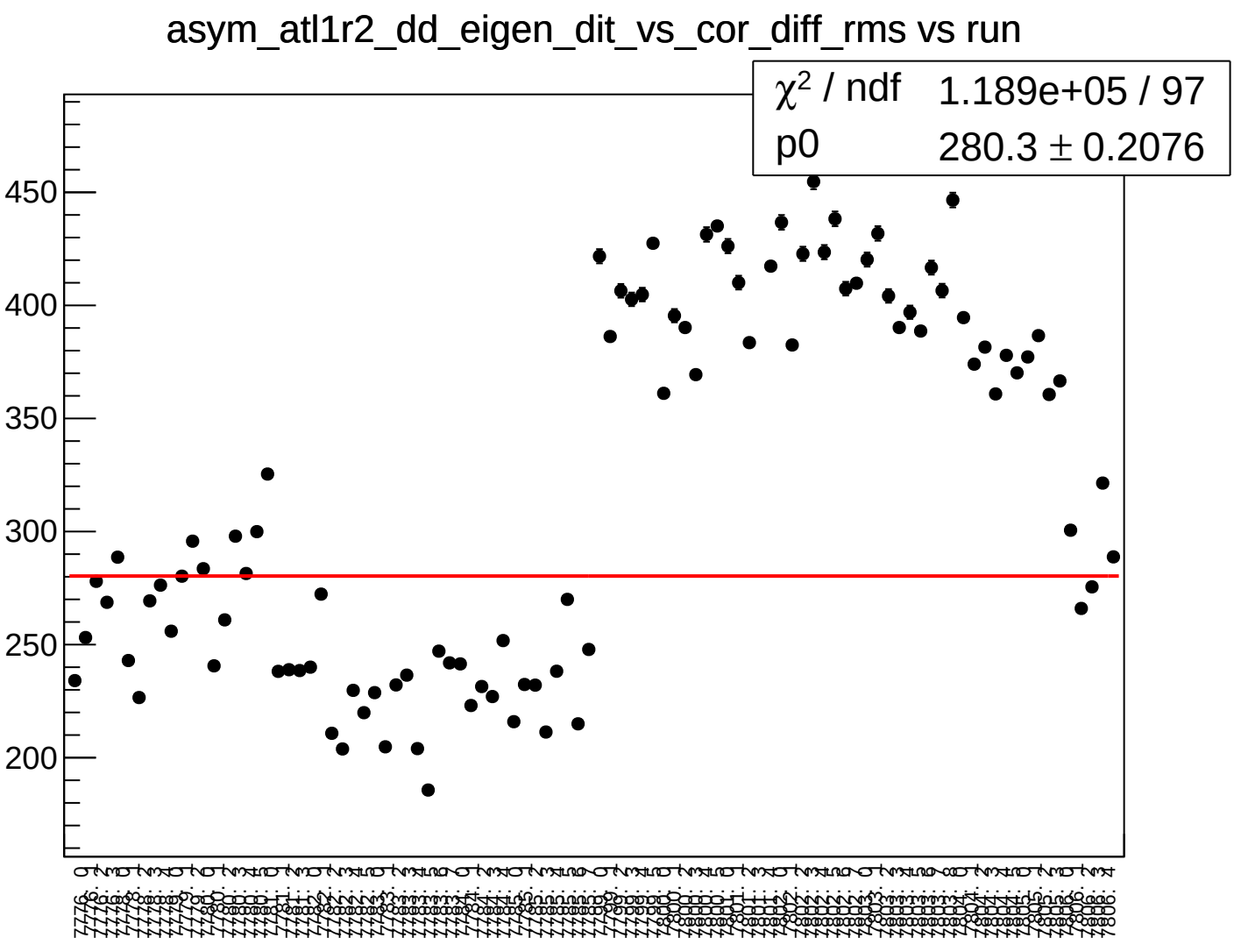

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.189e+05 / 97
p0 280.3 ± 0.2076
450
400
350
300
250
200

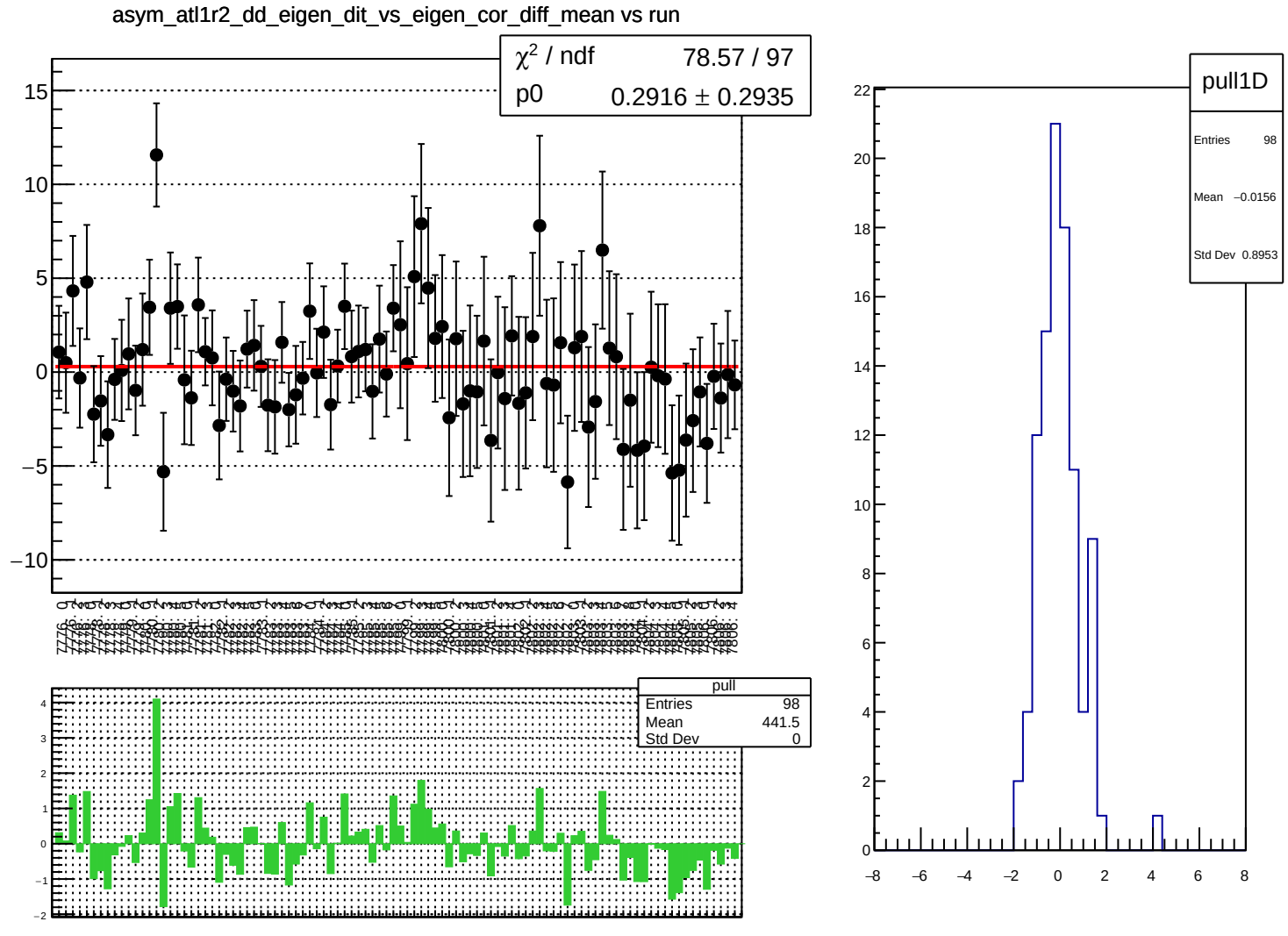

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.04 / 97
p0 −9.74e−06 ± 1.204e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 98
Mean 698.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

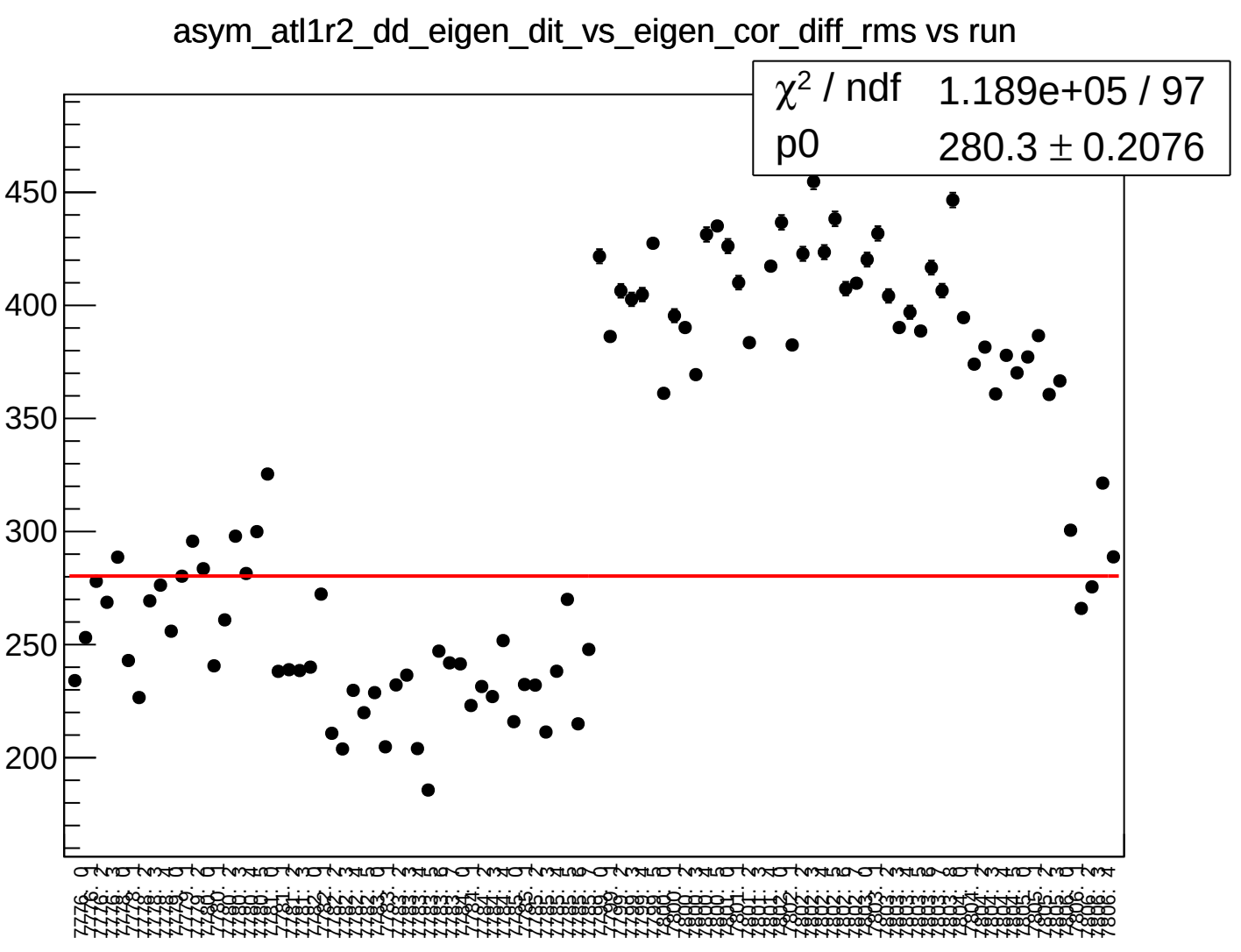

pull1D
Entries 98
Mean −0.000964
Std Dev 0.8454
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

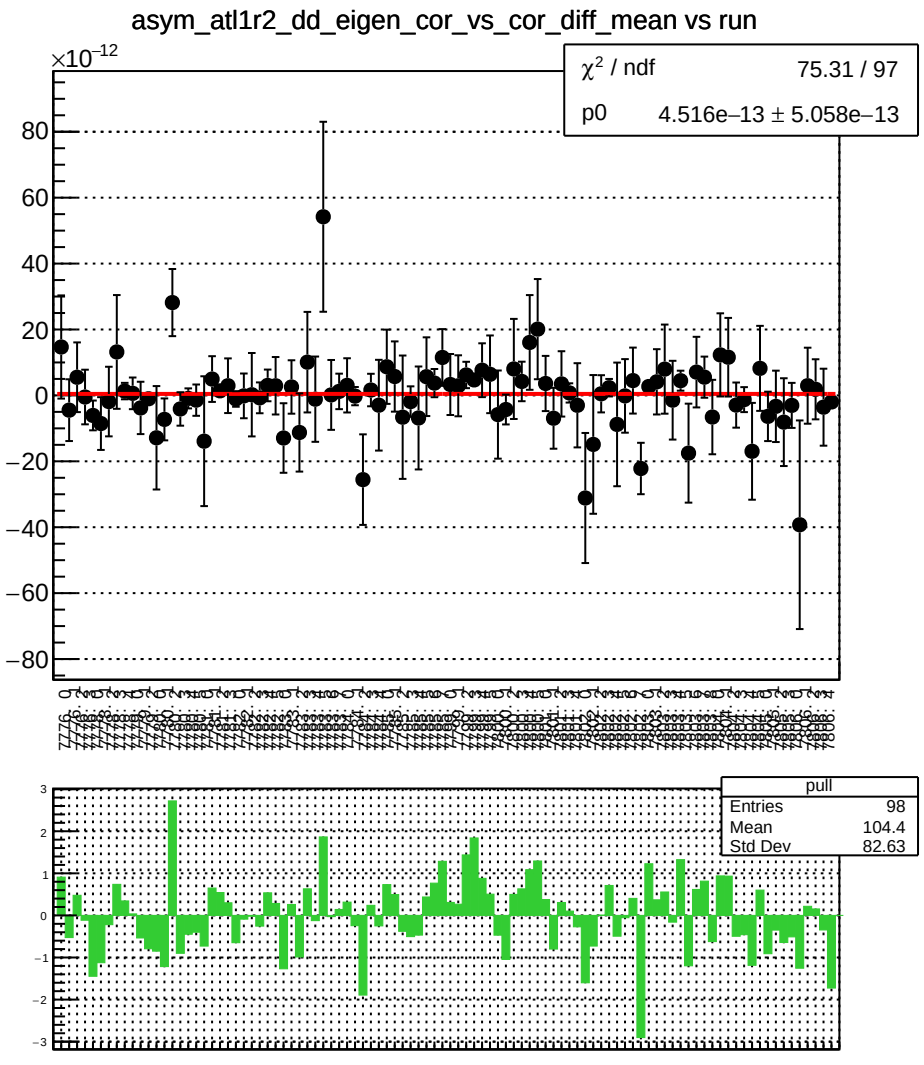

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.45e+05 / 97
p0 0.01109 ± 8.512e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

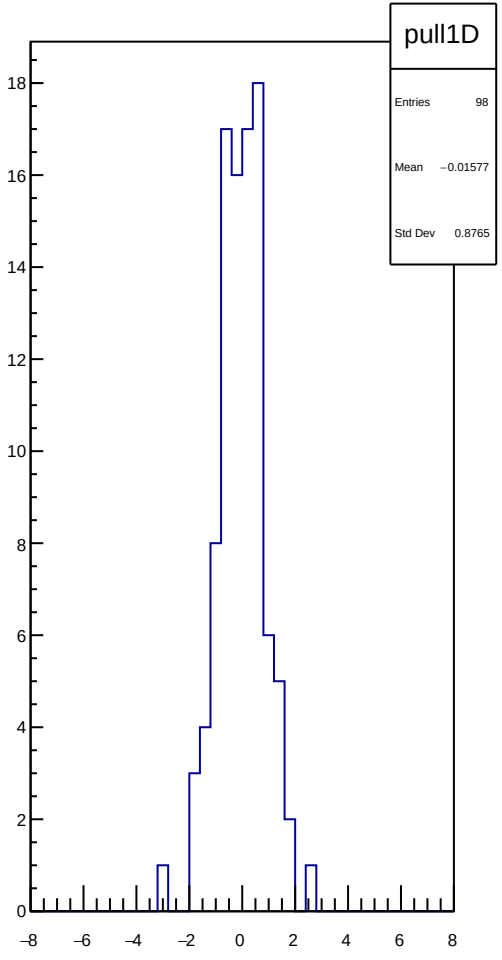

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.57 / 97
p0 0.2916 ± 0.2935
pull
Entries 98
Mean 441.5
Std Dev 0
pull1D
Entries 98
Mean −0.0156
Std Dev 0.8953

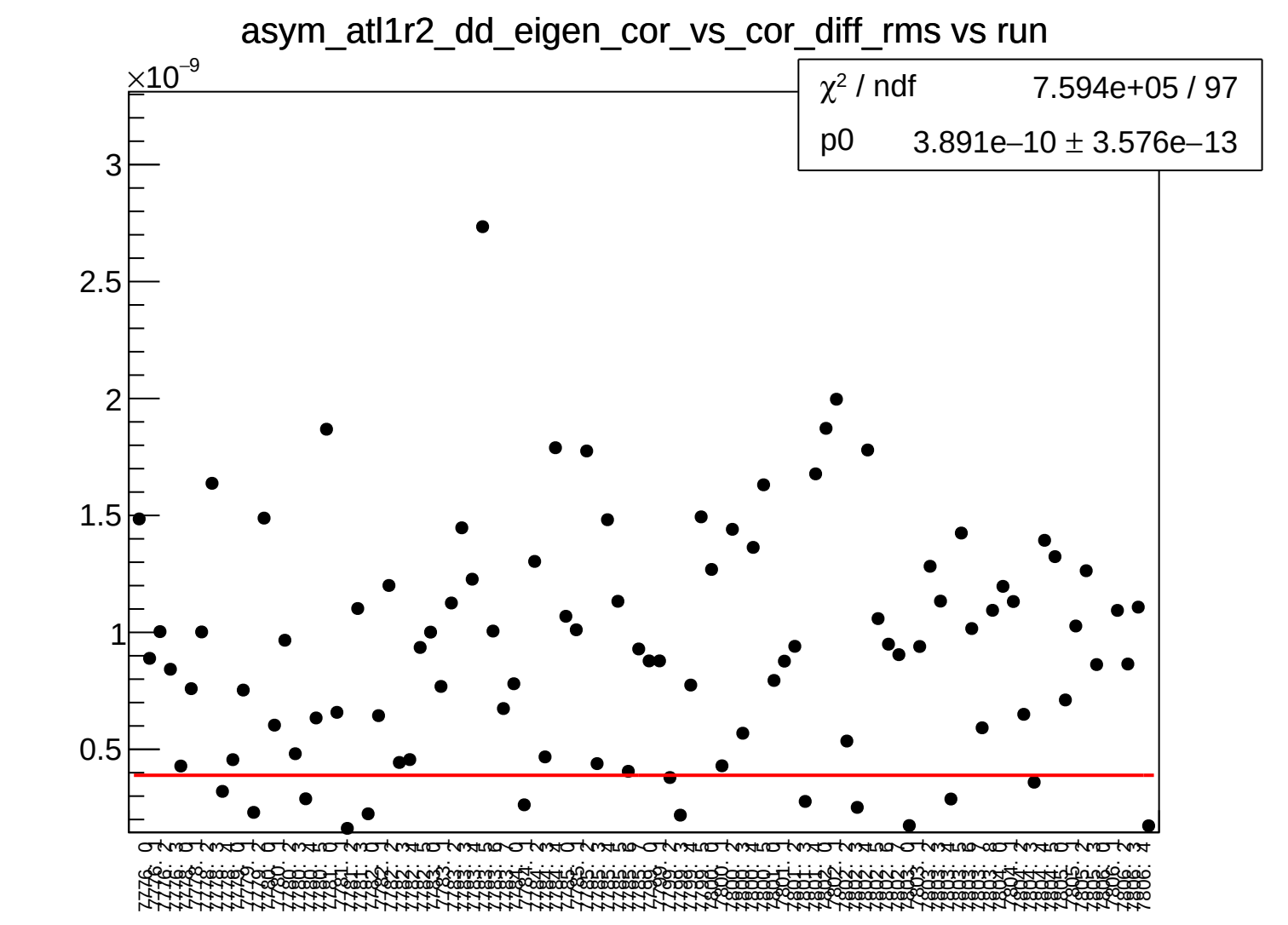

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.189e+05 / 97
p0 280.3 ± 0.2076
450
400
350
300
250
200

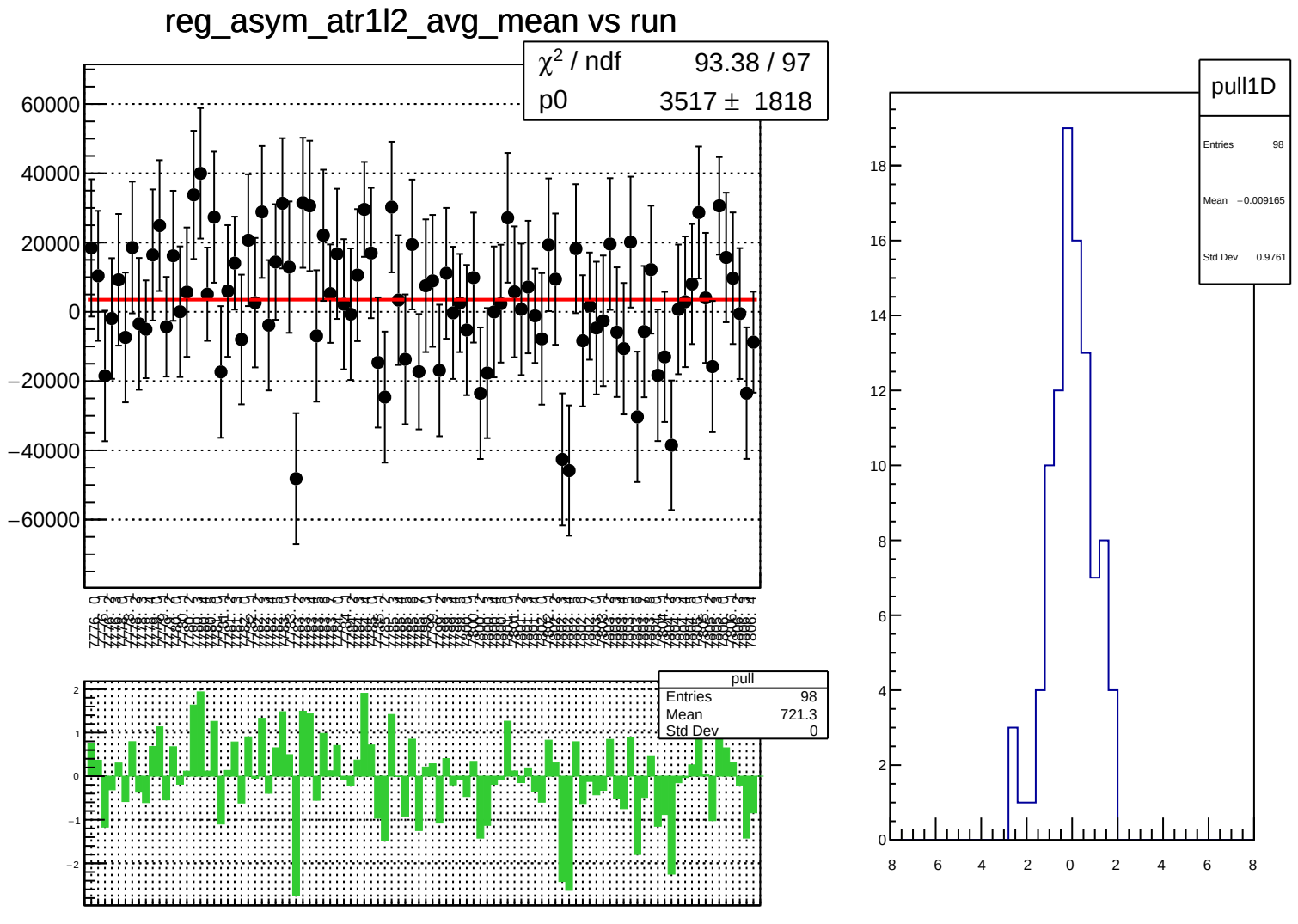

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.57 / 97
p0 0.2916 ± 0.2935
pull
Entries 98
Mean 441.5
Std Dev 0
pull1D
Entries 98
Mean −0.0156
Std Dev 0.8953

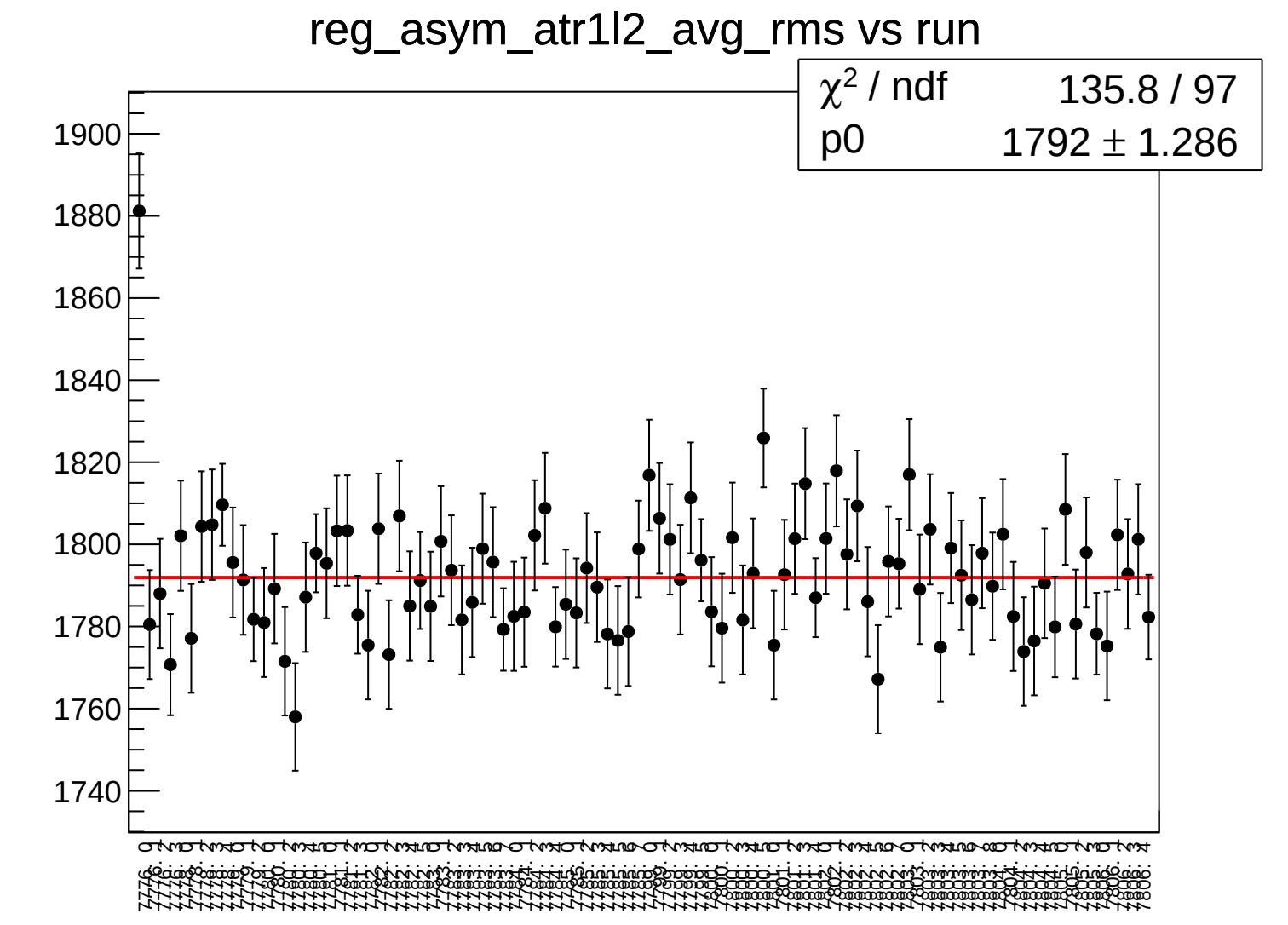

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.189e+05 / 97
p0 280.3 ± 0.2076
450
400
350
300
250
200

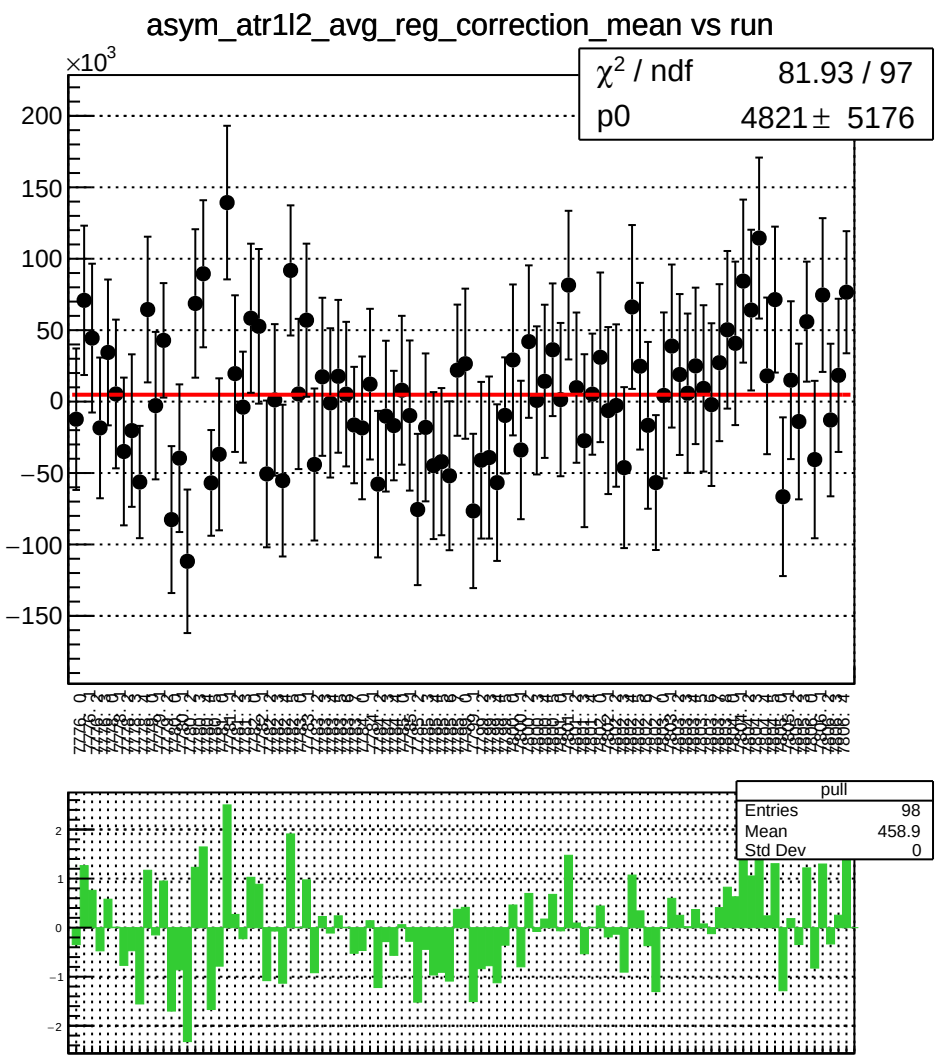

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.31 / 97
p0 4.516e−13 ± 5.058e−13
pull
Entries 98
Mean 104.4
Std Dev 82.63

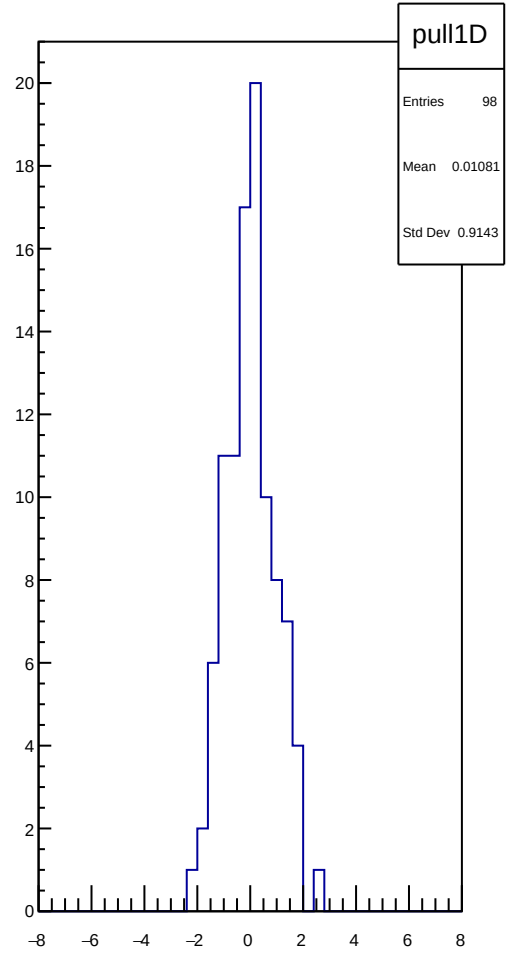

pull1D
Entries 98
Mean −0.01577
Std Dev 0.8765

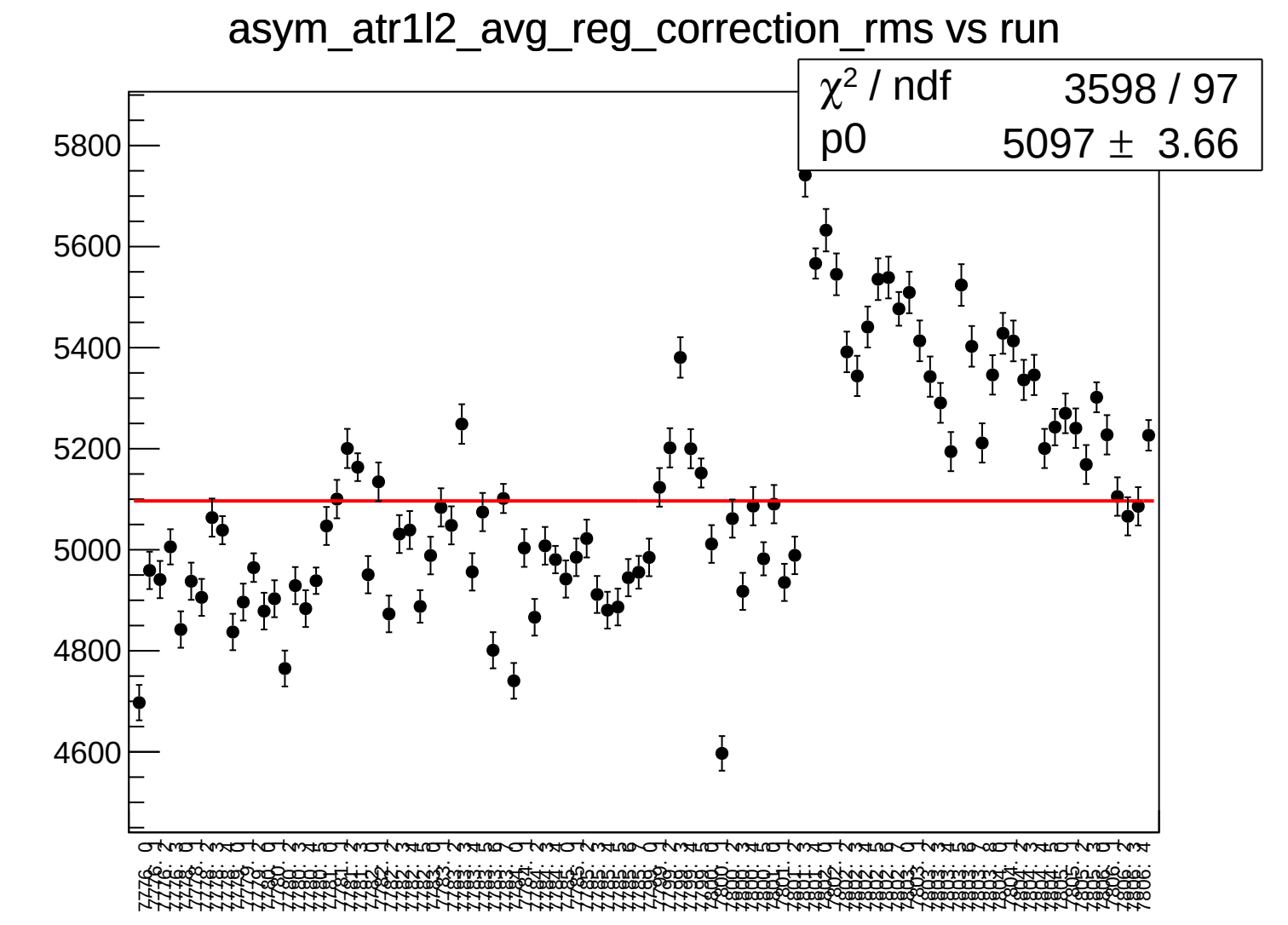

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.594e+05 / 97
p0 3.891e−10 ± 3.576e−13
3
2.5
2
1.5
1
0.5

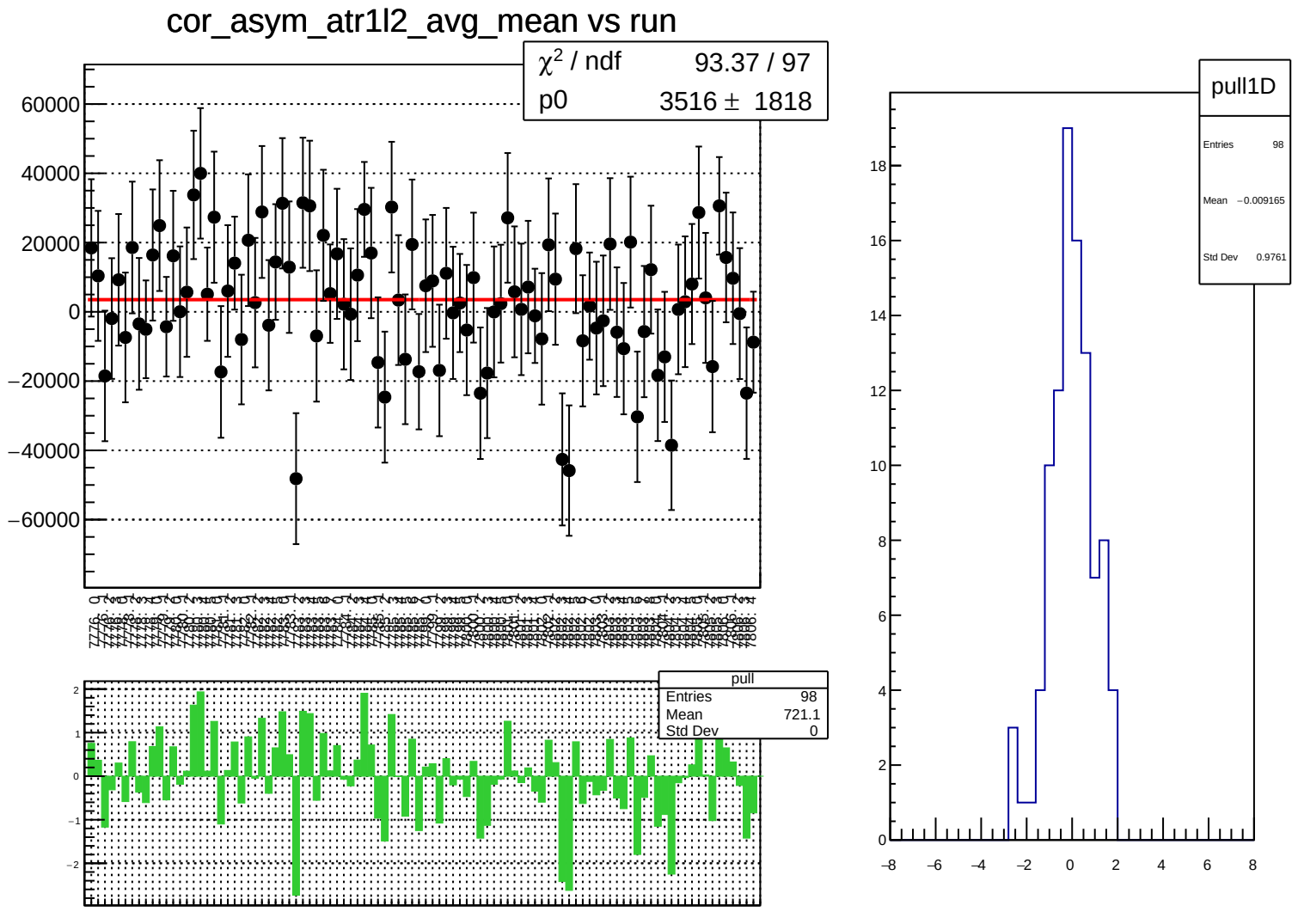

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 93.38 / 97
p0 3517 ± 1818
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 721.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.009165
Std Dev 0.9761
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

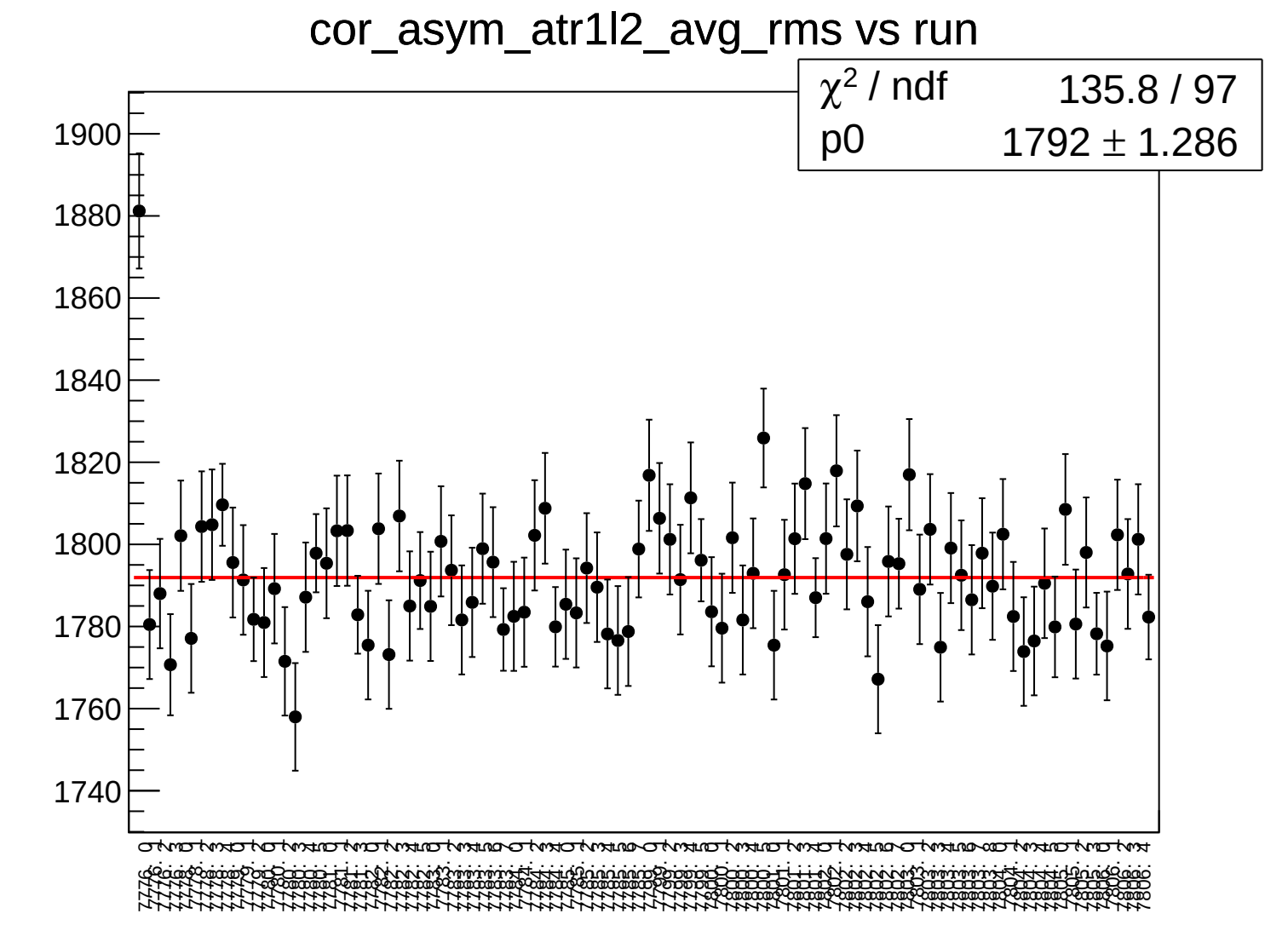

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 135.8 / 97
p0 1792 ± 1.286
1900
1880
1860
1840
1820
1800
1780
1760
1740

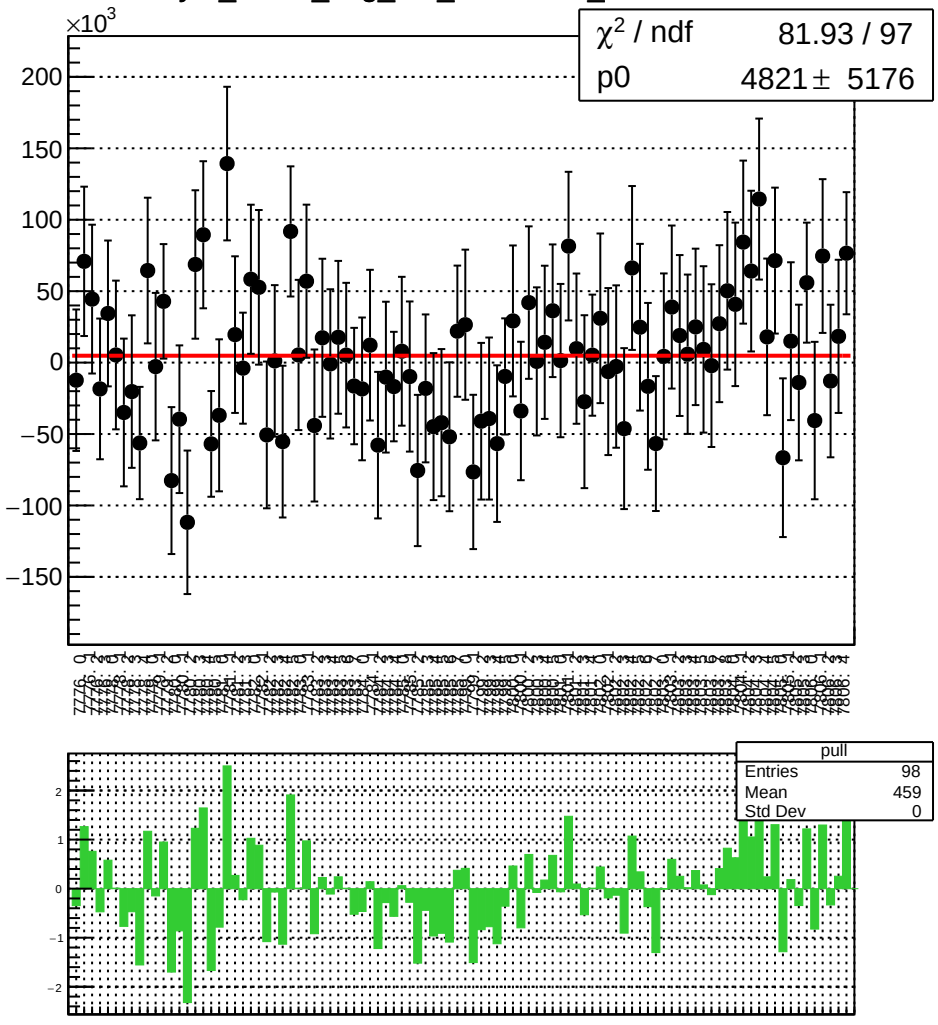

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.93 / 97
p0 4821 ± 5176
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 458.9
Std Dev 0
2
1
0
−1
−2

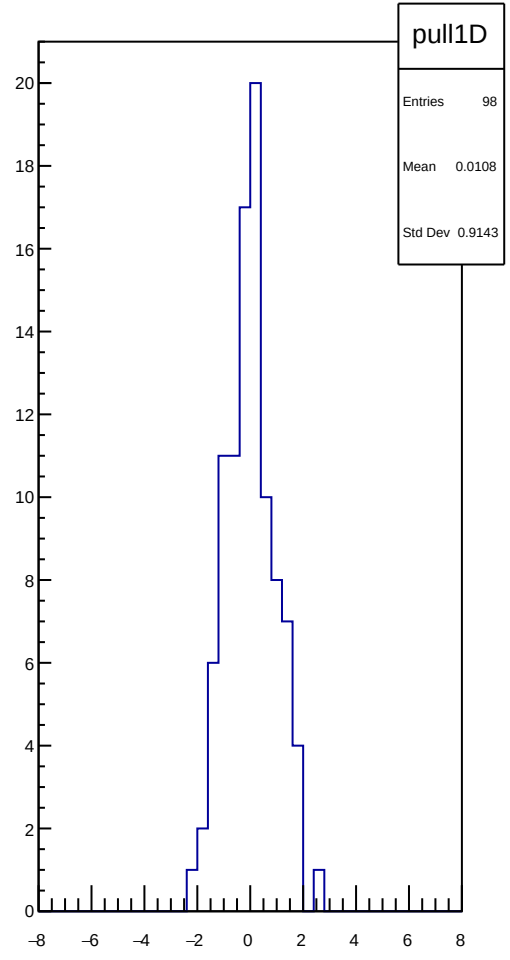

pull1D
Entries 98
Mean 0.01081
Std Dev 0.9143
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

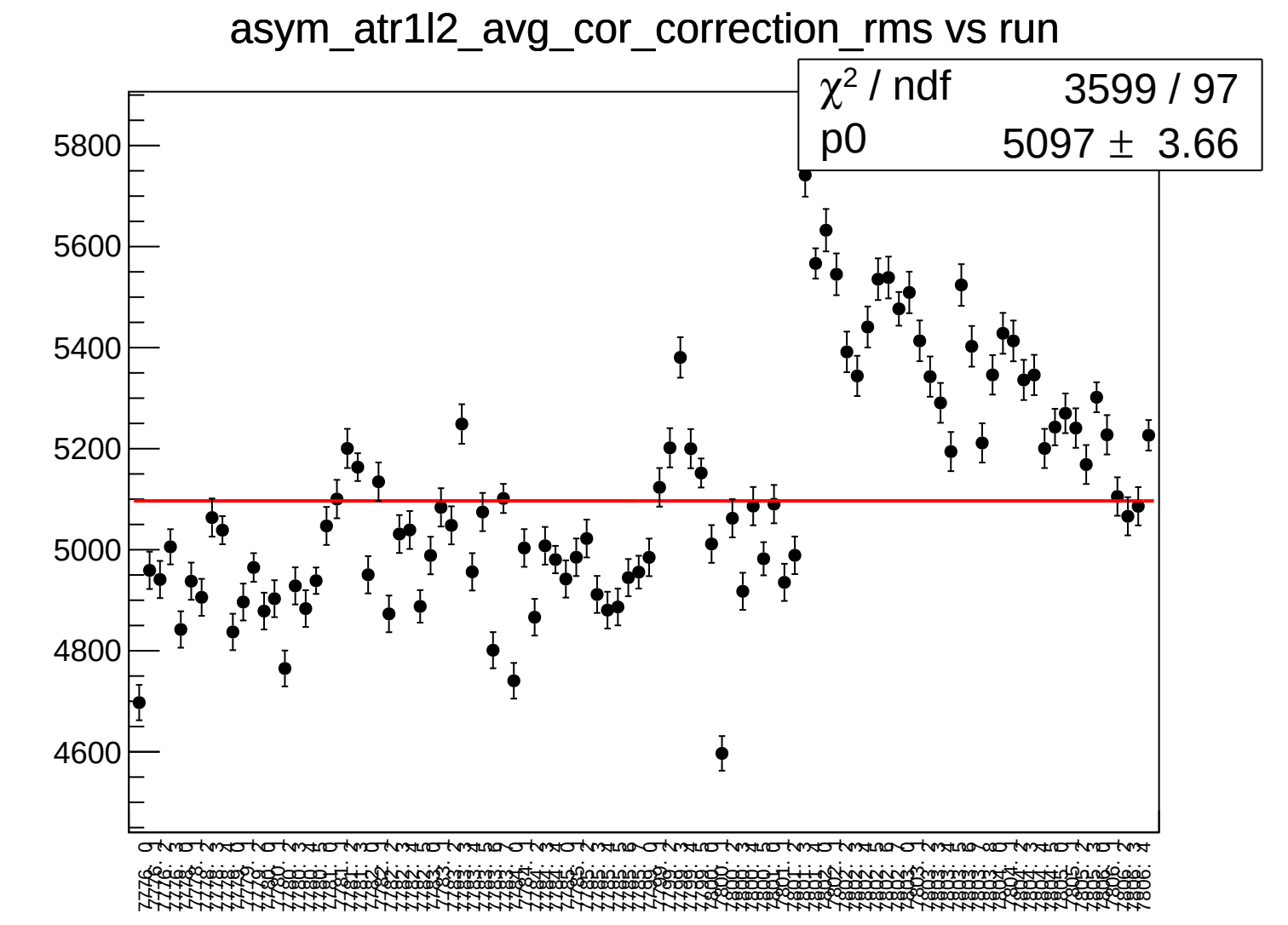

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 3598 / 97
p0 5097 ± 3.66
5800
5600
5400
5200
5000
4800
4600

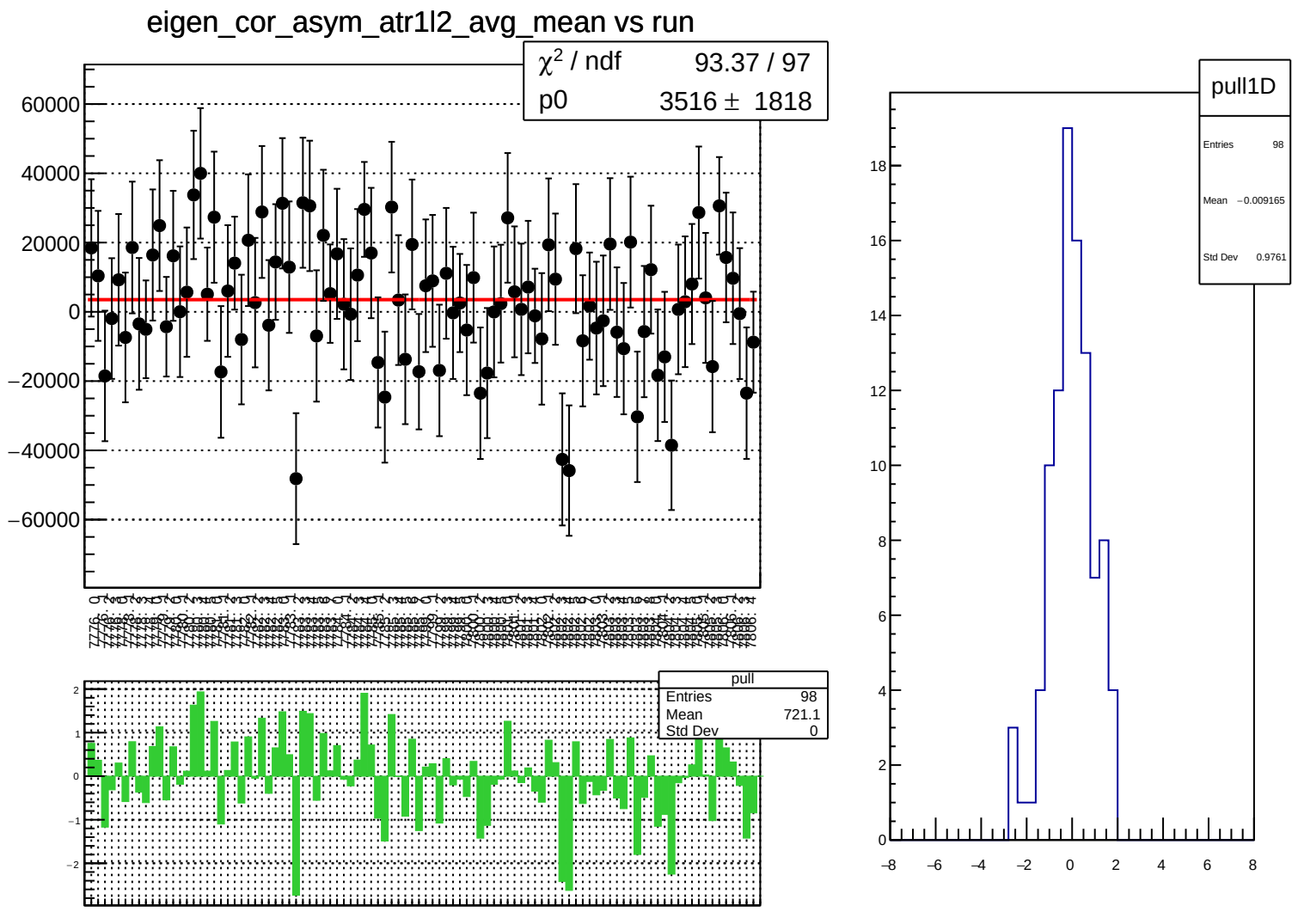

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 93.37 / 97
p0 3516 ± 1818
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 721.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.009165
Std Dev 0.9761
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

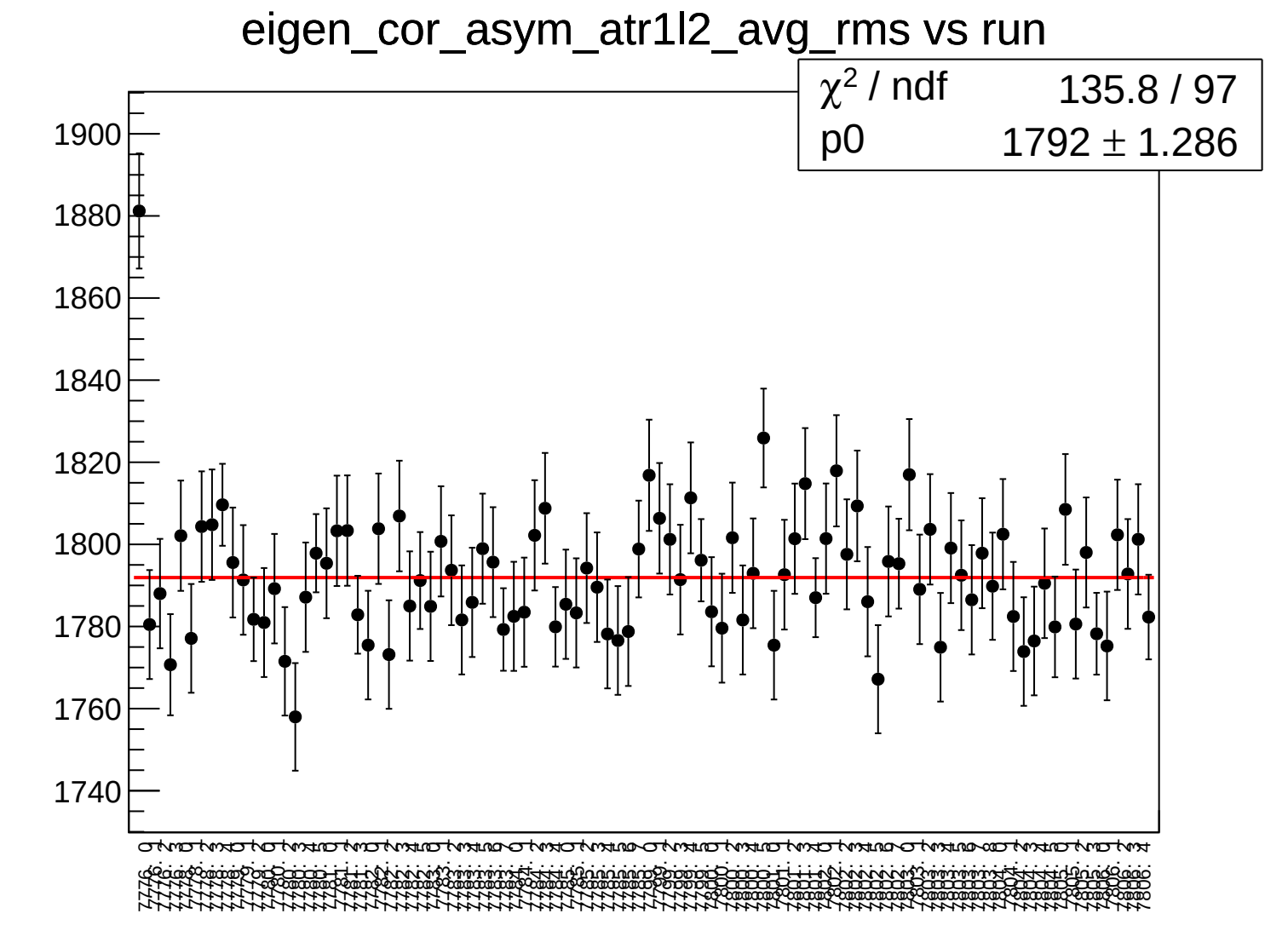

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 135.8 / 97
p0 1792 ± 1.286
1900
1880
1860
1840
1820
1800
1780
1760
1740

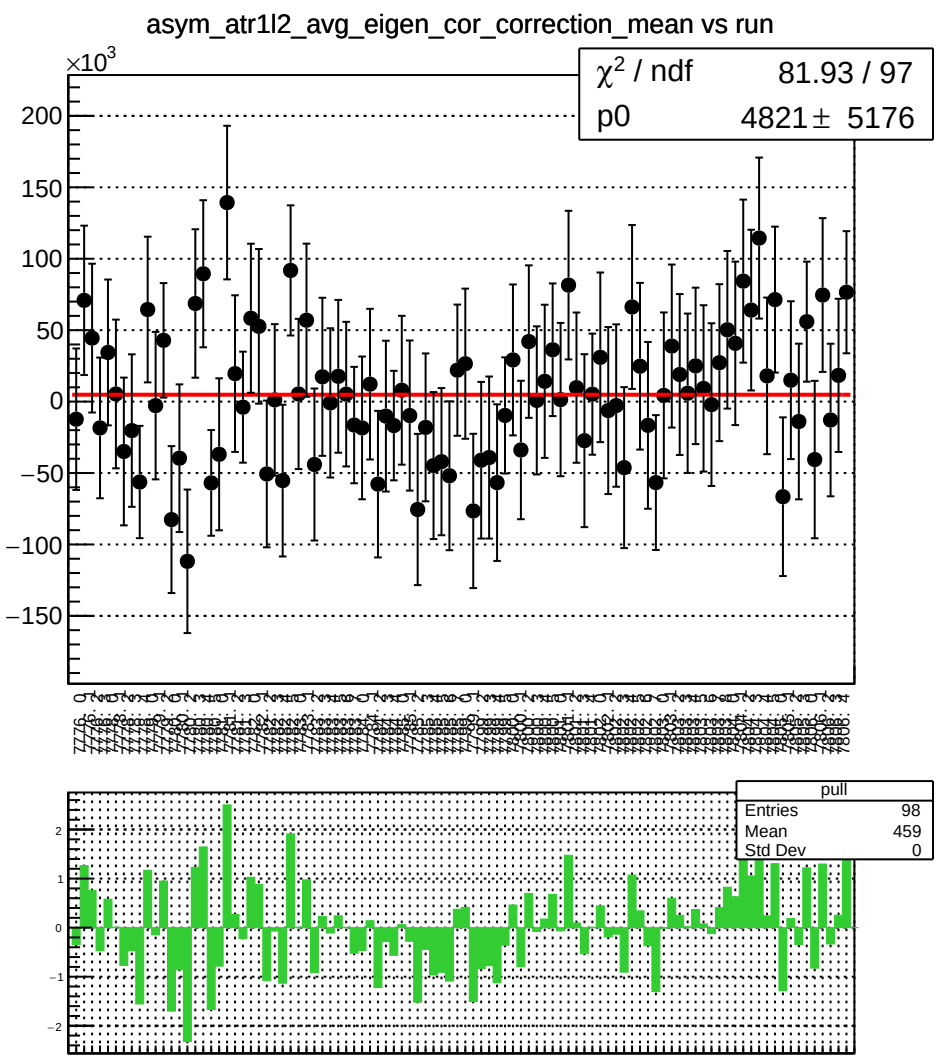

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.93 / 97
p0 4821 ± 5176
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 459
Std Dev 0
2
1
0
−1
−2

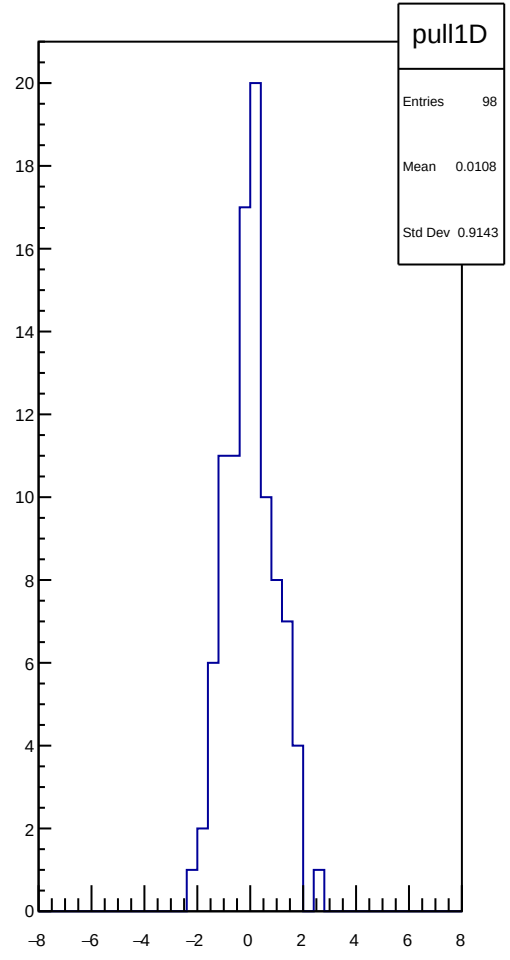

pull1D
Entries 98
Mean 0.0108
Std Dev 0.9143
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

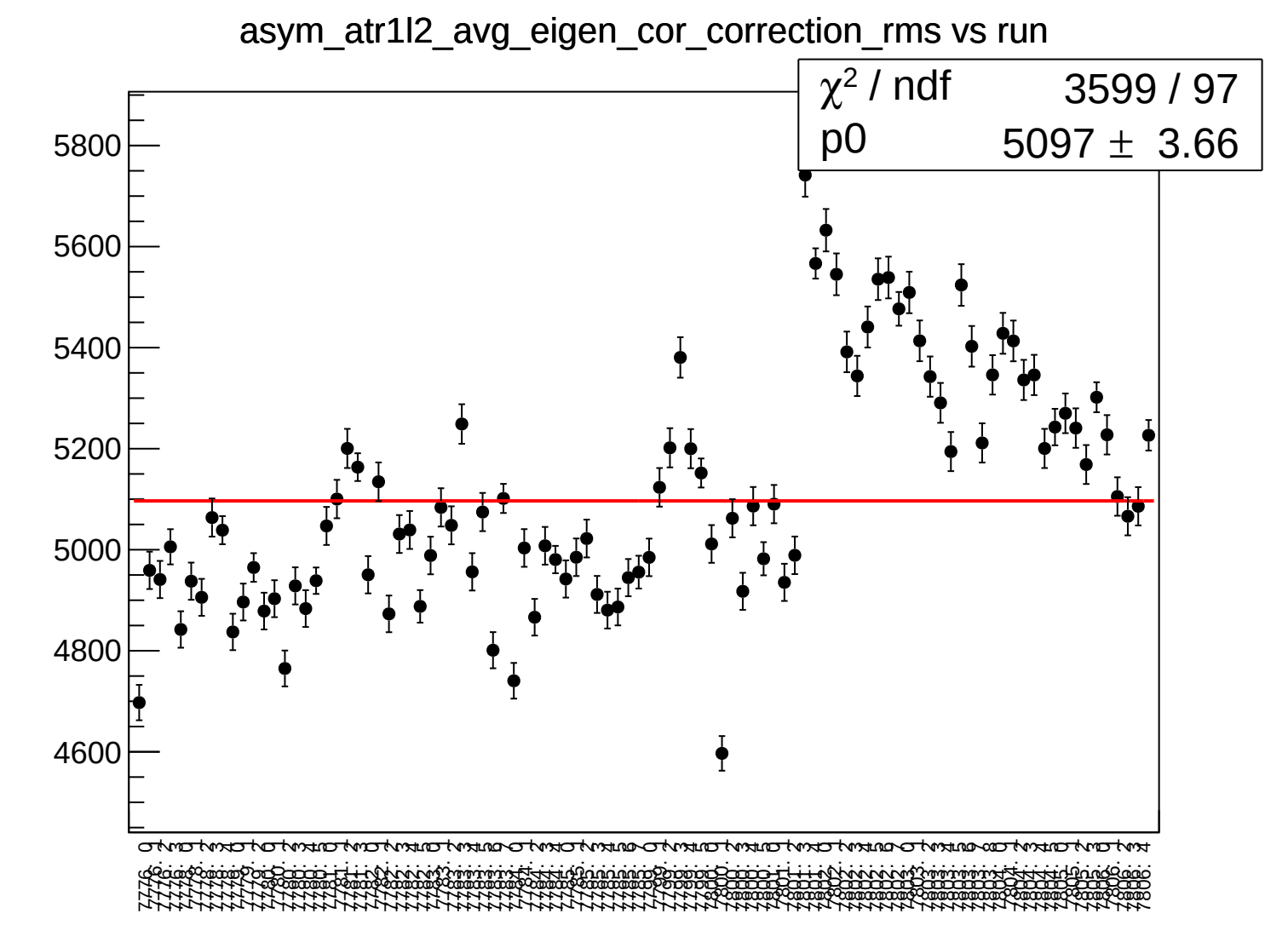

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 3599 / 97
p0 5097 ± 3.66
5800
5600
5400
5200
5000
4800
4600

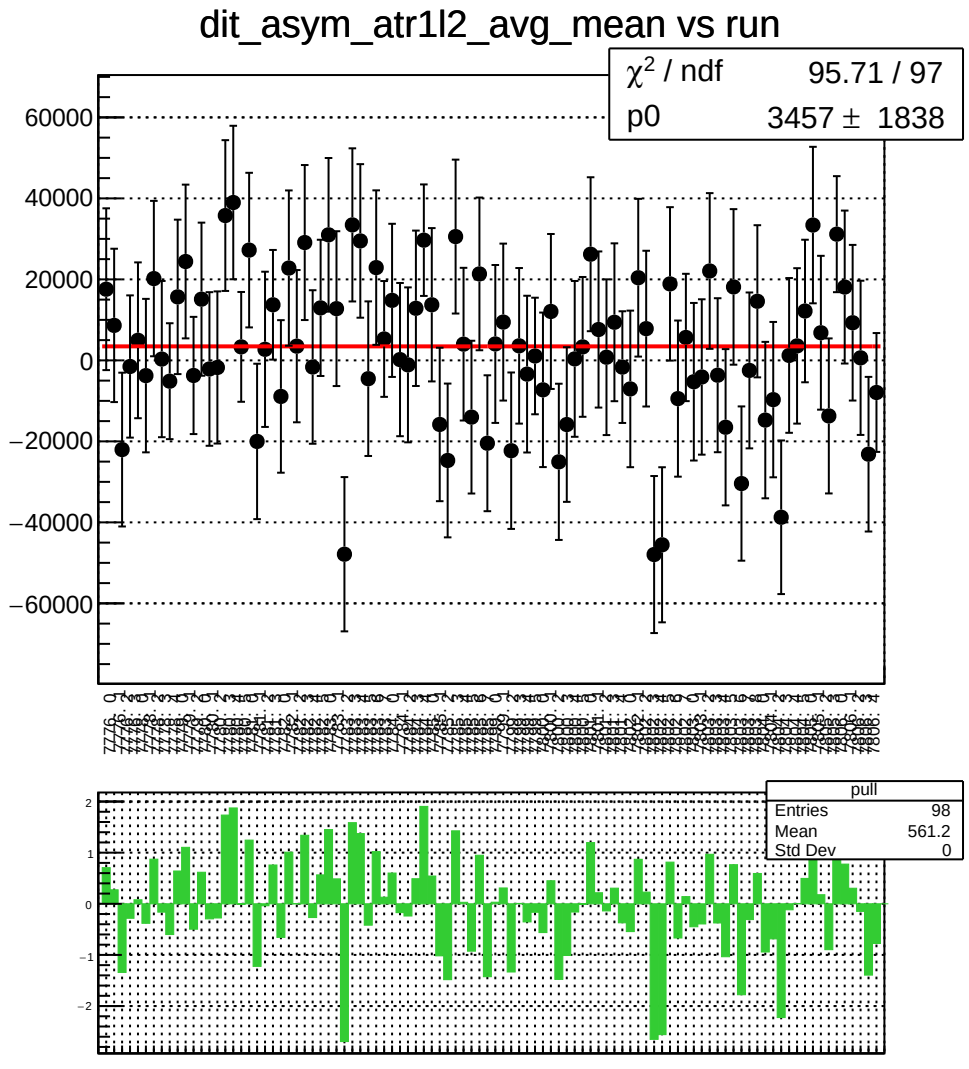

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 93.37 / 97
p0 3516 ± 1818
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 721.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.009165
Std Dev 0.9761
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

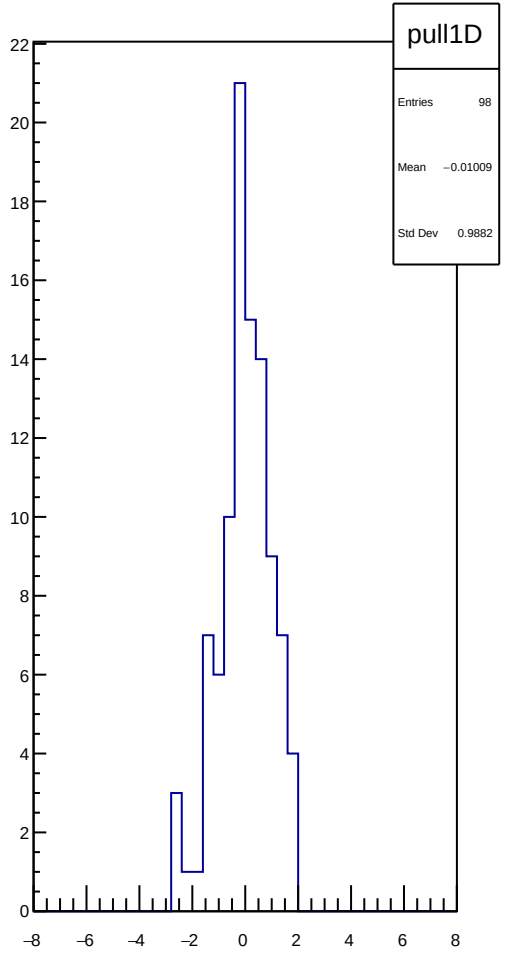

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 135.8 / 97
p0 1792 ± 1.286
1900
1880
1860
1840
1820
1800
1780
1760
1740

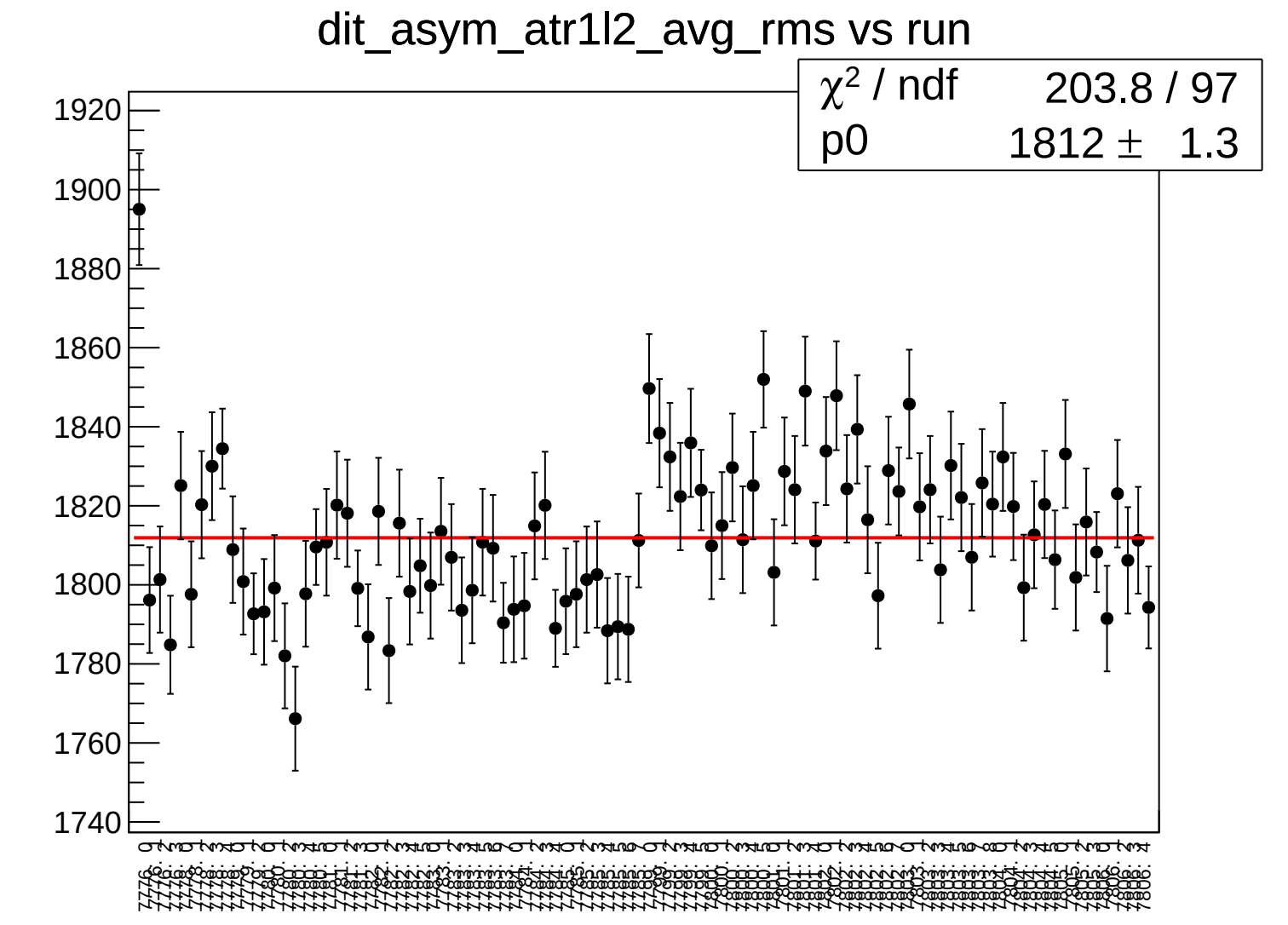

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.93 / 97
p0 4821 ± 5176
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 459
Std Dev 0
2
1
0
−1
−2

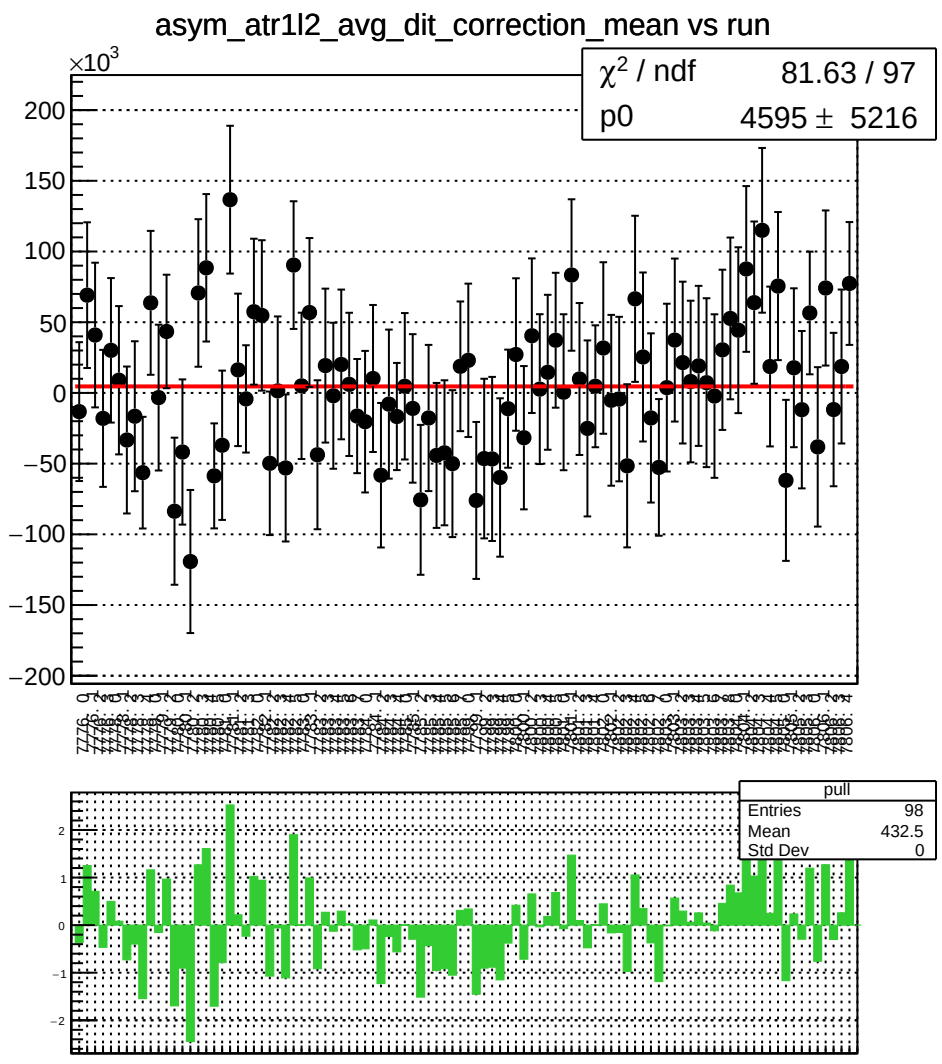

pull1D
Entries 98
Mean 0.0108
Std Dev 0.9143
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

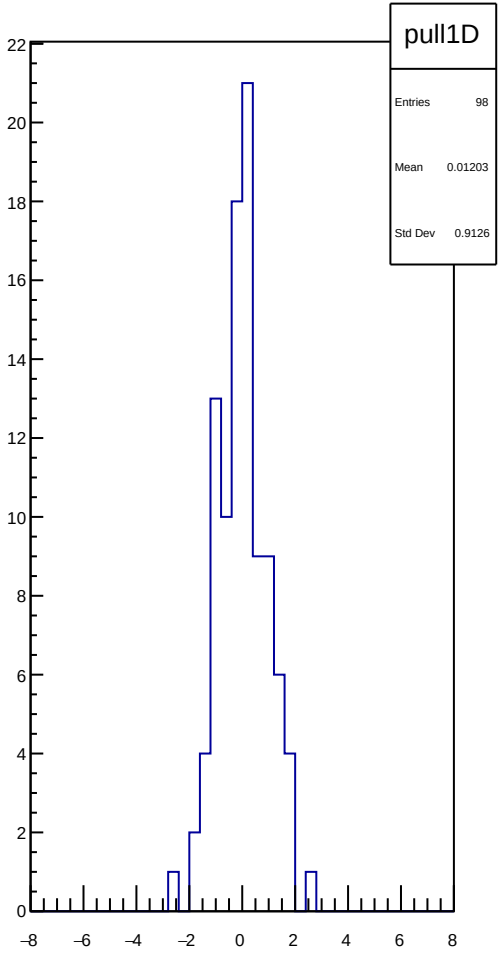

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3599 / 97
p0 5097 ± 3.66
5800
5600
5400
5200
5000
4800
4600

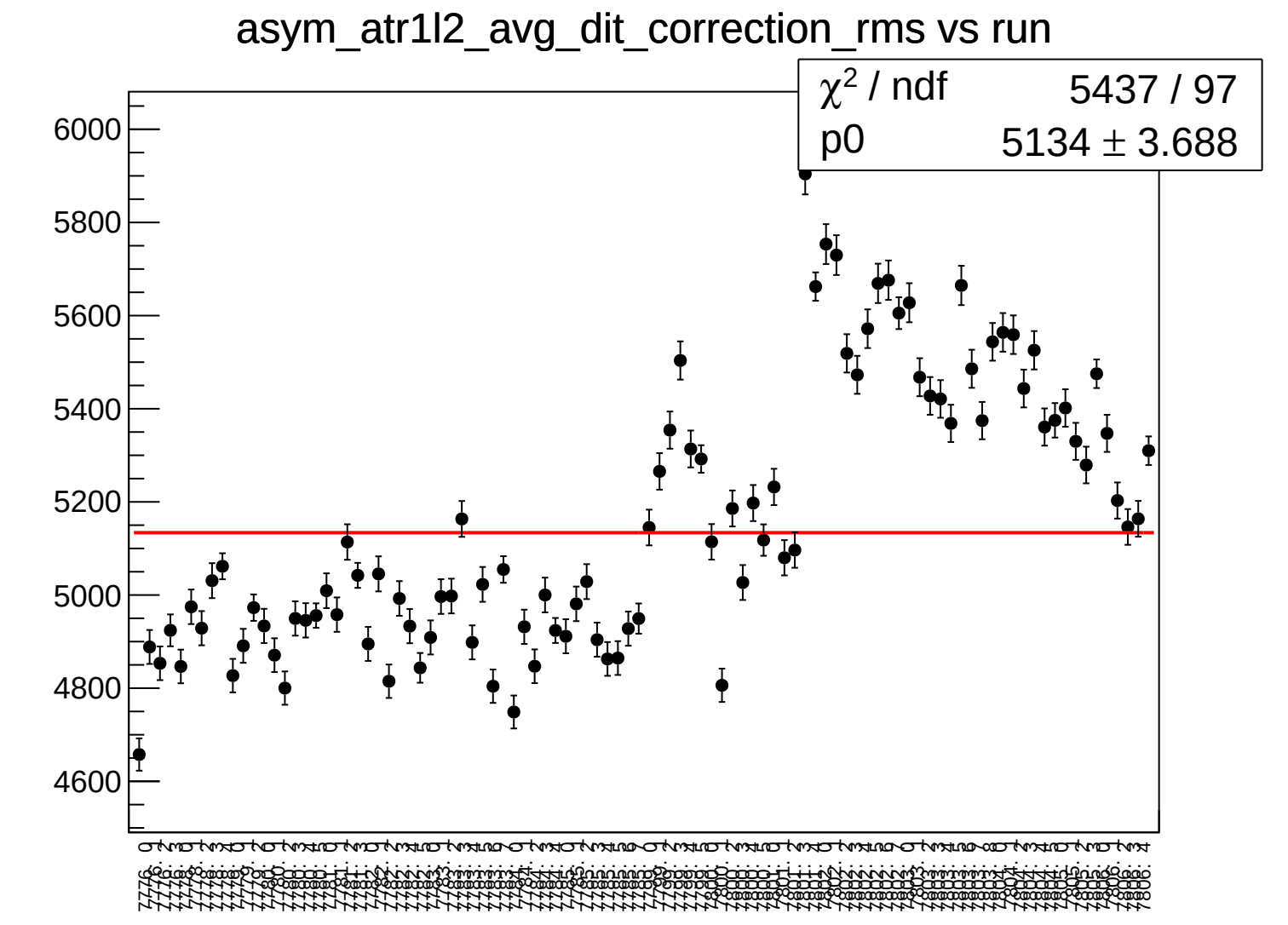

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 95.71 / 97
p0 3457 ± 1838
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 561.2
Std Dev 0
2
1
0
−1
−2

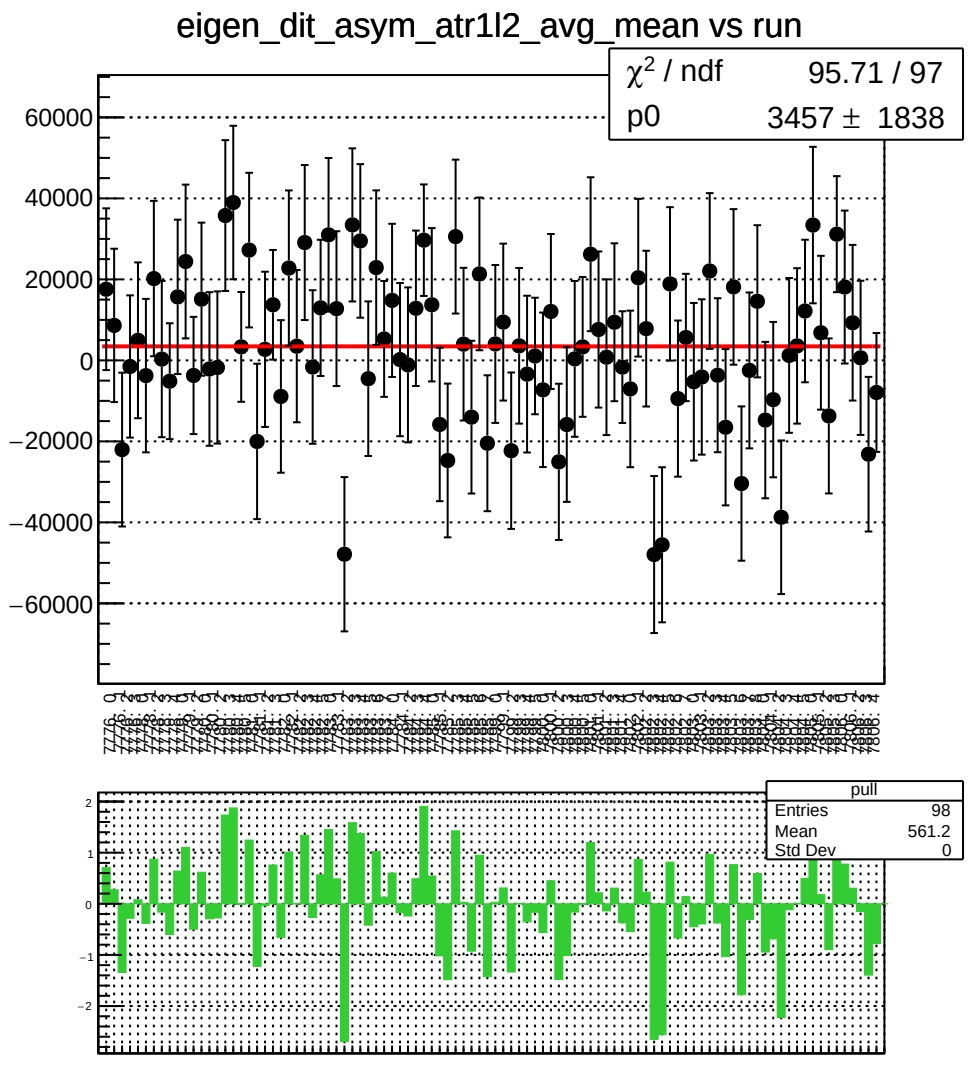

pull1D
Entries 98
Mean −0.01009
Std Dev 0.9882
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

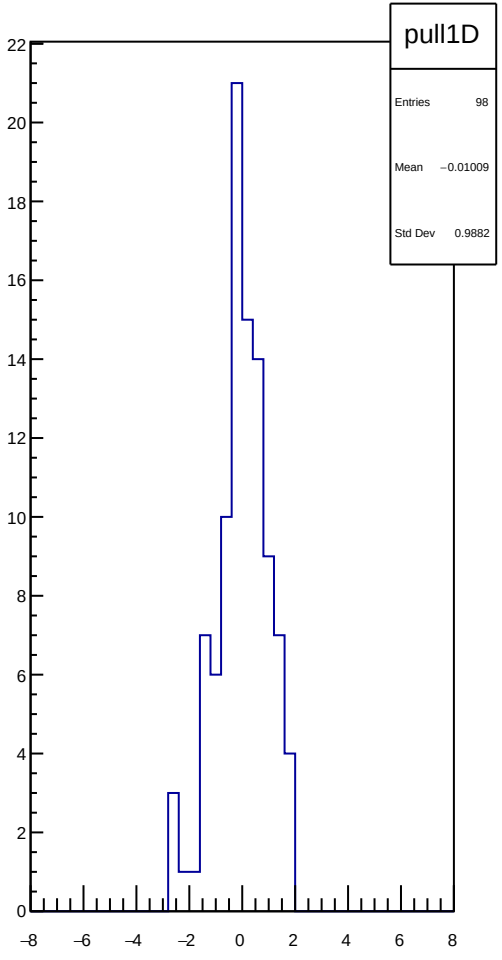

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 203.8 / 97
p0 1812 ± 1.3
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

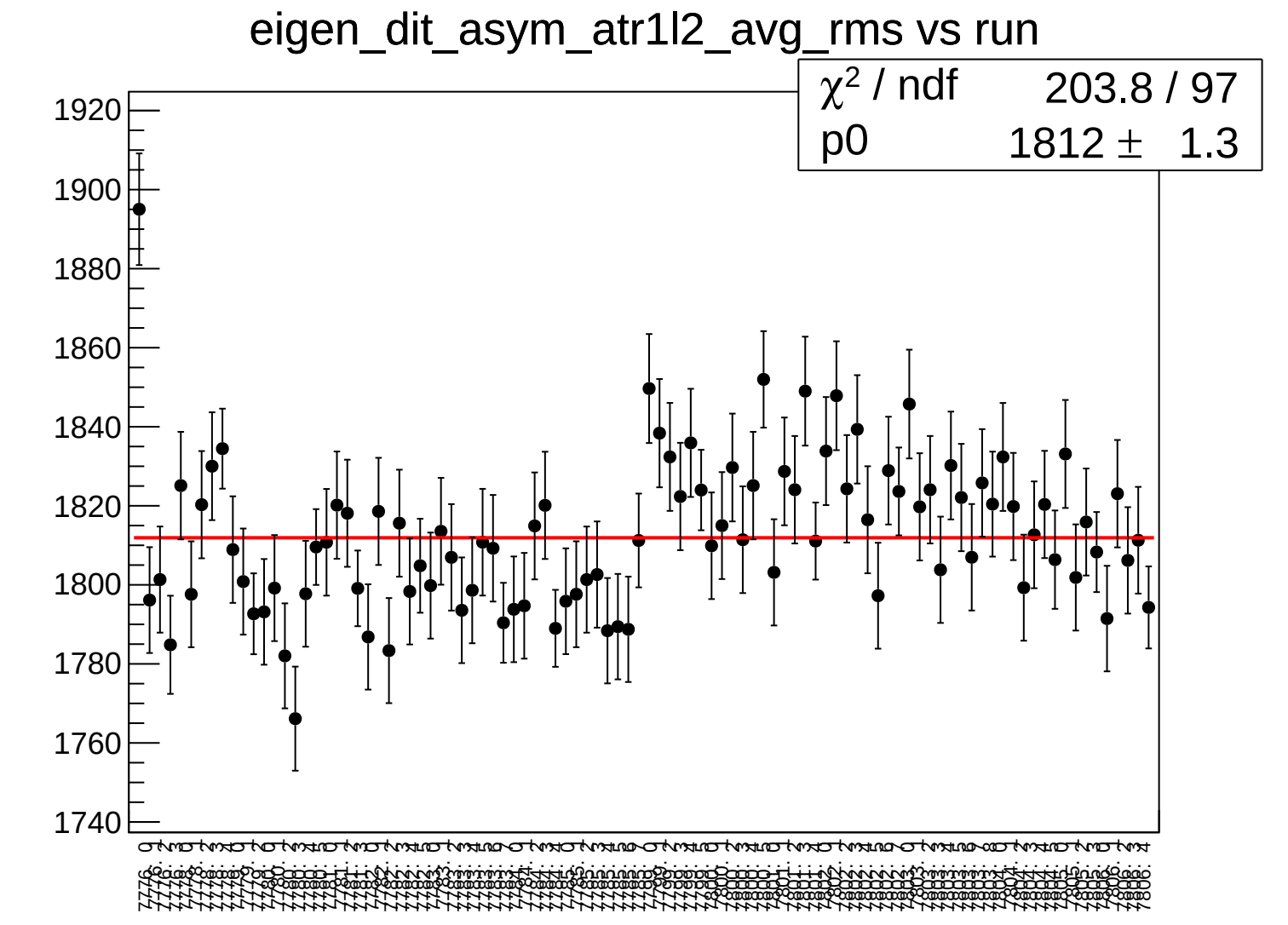

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.63 / 97
p0 4595 ± 5216
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 432.5
Std Dev 0
2
1
0
−1
−2

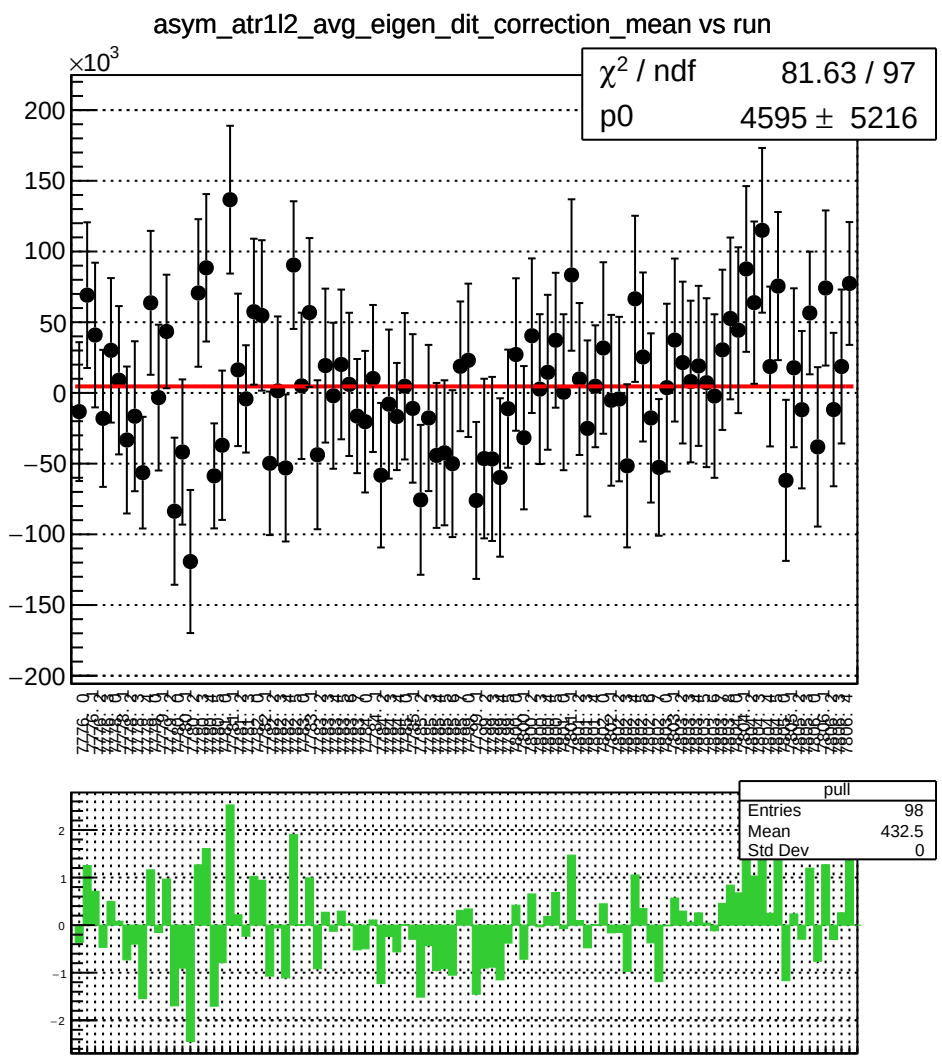

pull1D
Entries 98
Mean 0.01203
Std Dev 0.9126
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

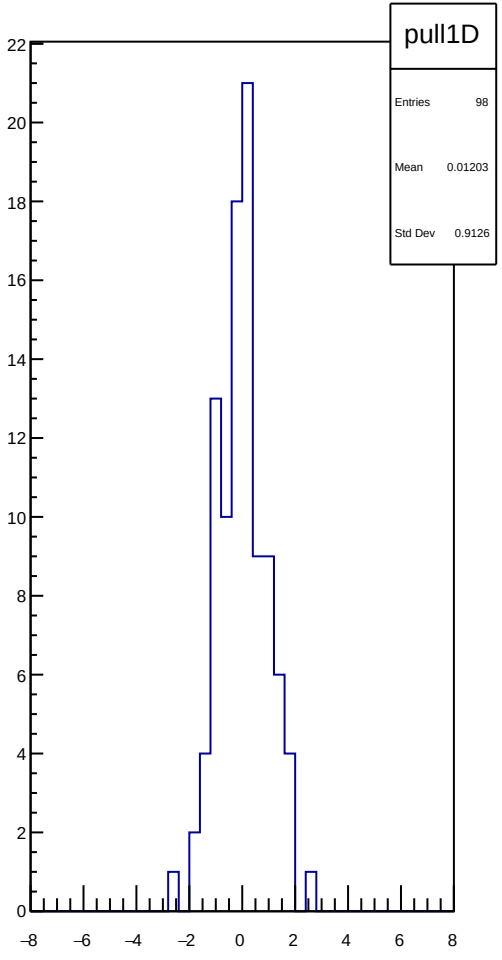

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 5437 / 97
p0 5134 ± 3.688
6000
5800
5600
5400
5200
5000
4800
4600

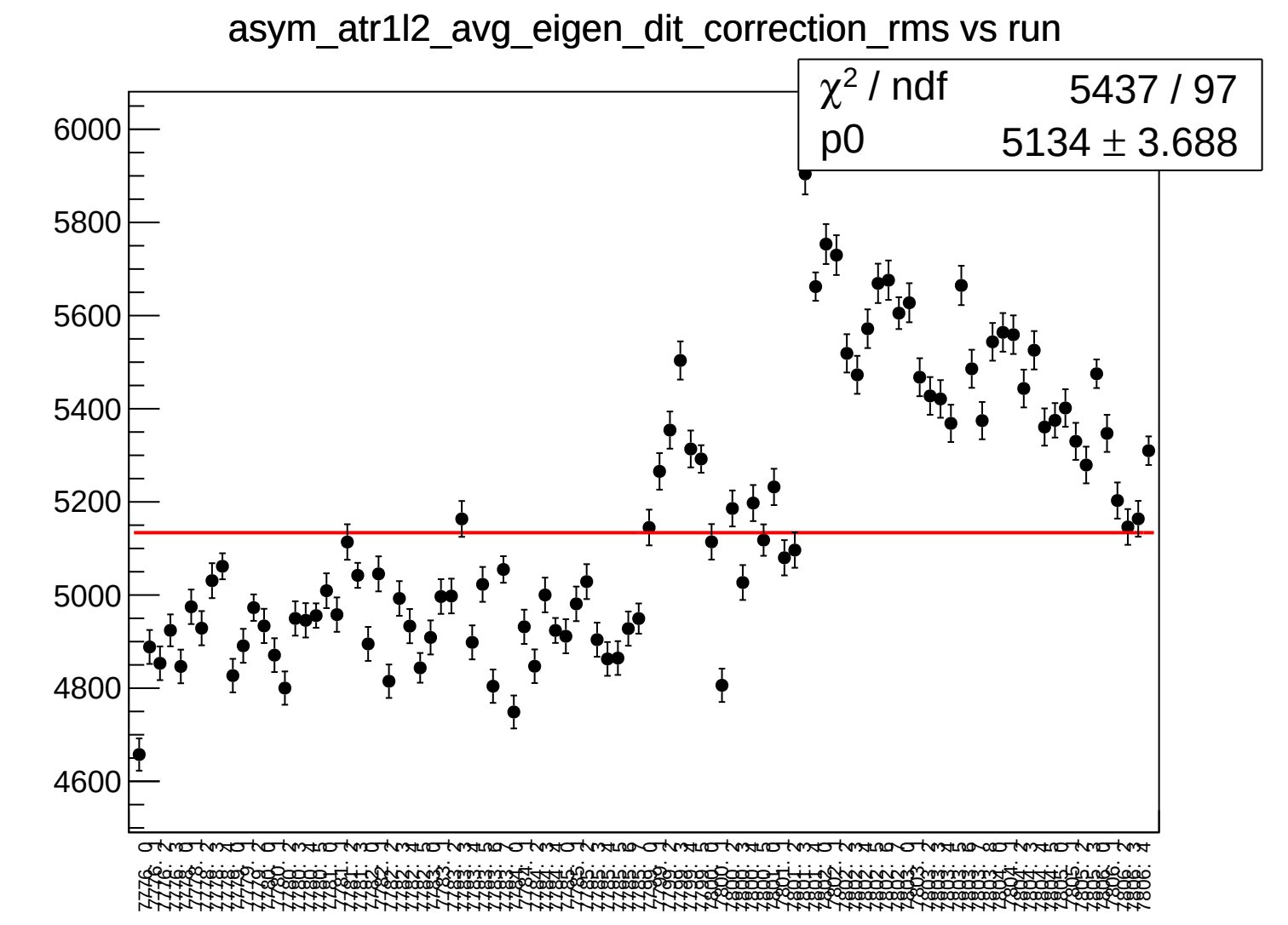

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 95.71 / 97
p0 3457 ± 1838
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 561.2
Std Dev 0
2
1
0
−1
−2

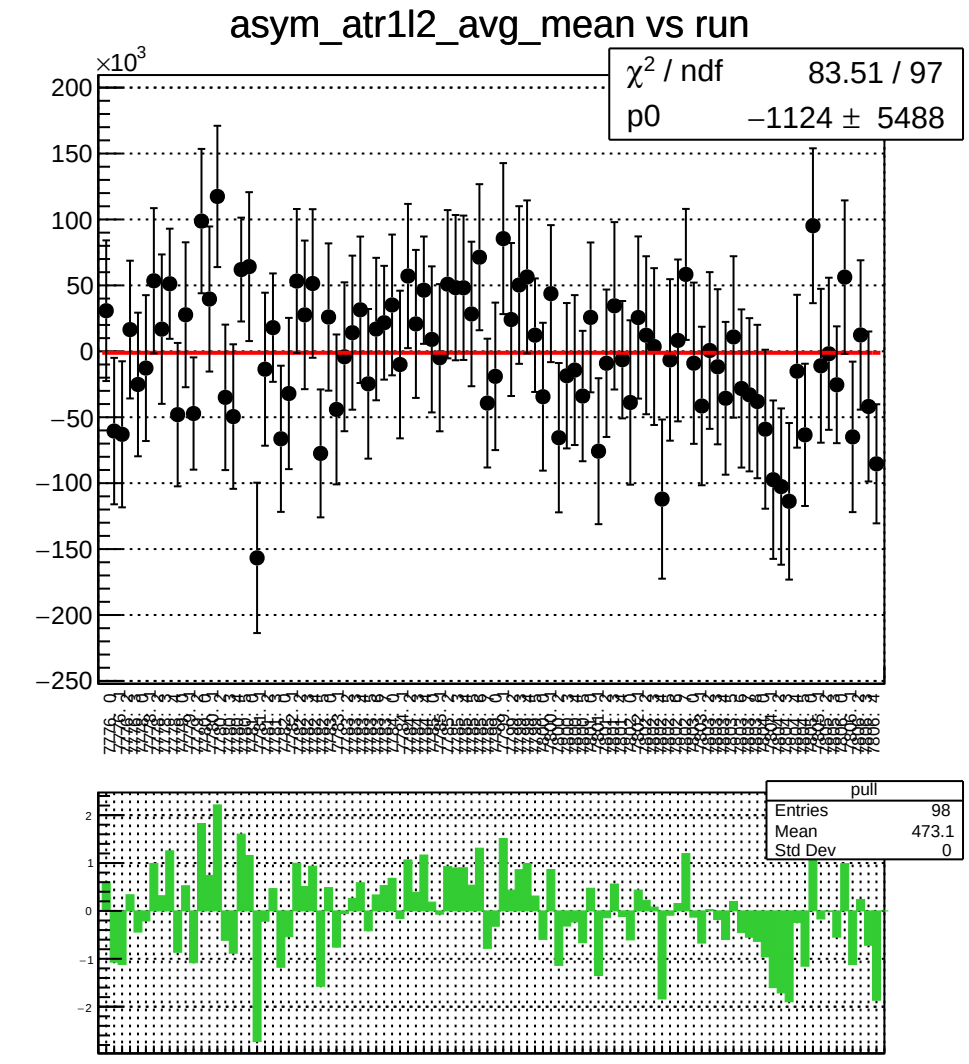

pull1D
Entries 98
Mean −0.01009
Std Dev 0.9882
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

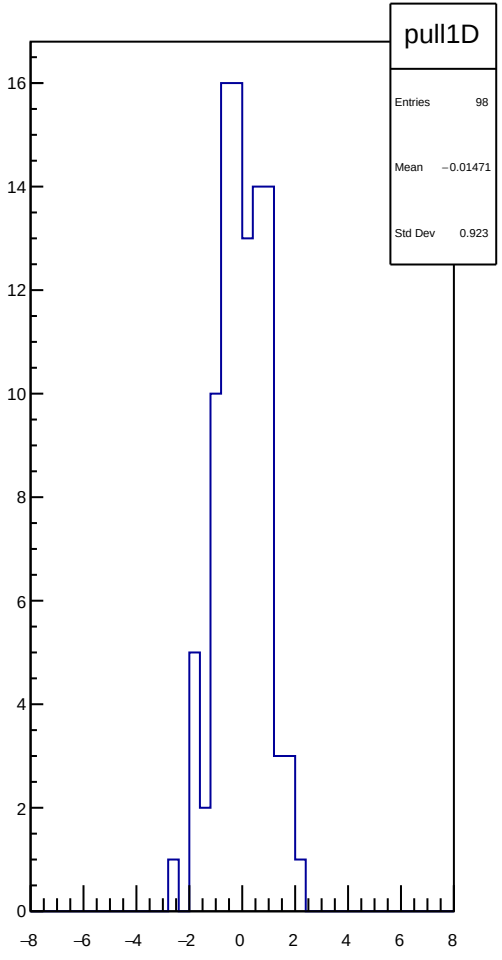

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 203.8 / 97
p0 1812 ± 1.3
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740


asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.63 / 97
p0 4595 ± 5216
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 432.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 98
Mean 0.01203
Std Dev 0.9126
22
20
18
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 5437 / 97
p0 5134 ± 3.688
6000
5800
5600
5400
5200
5000
4800
4600


asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 83.51 / 97
p0 −1124 ± 5488
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 98
Mean 473.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 98
Mean −0.01471
Std Dev 0.923
16
14
12
10
8
6
4
2
0
−8
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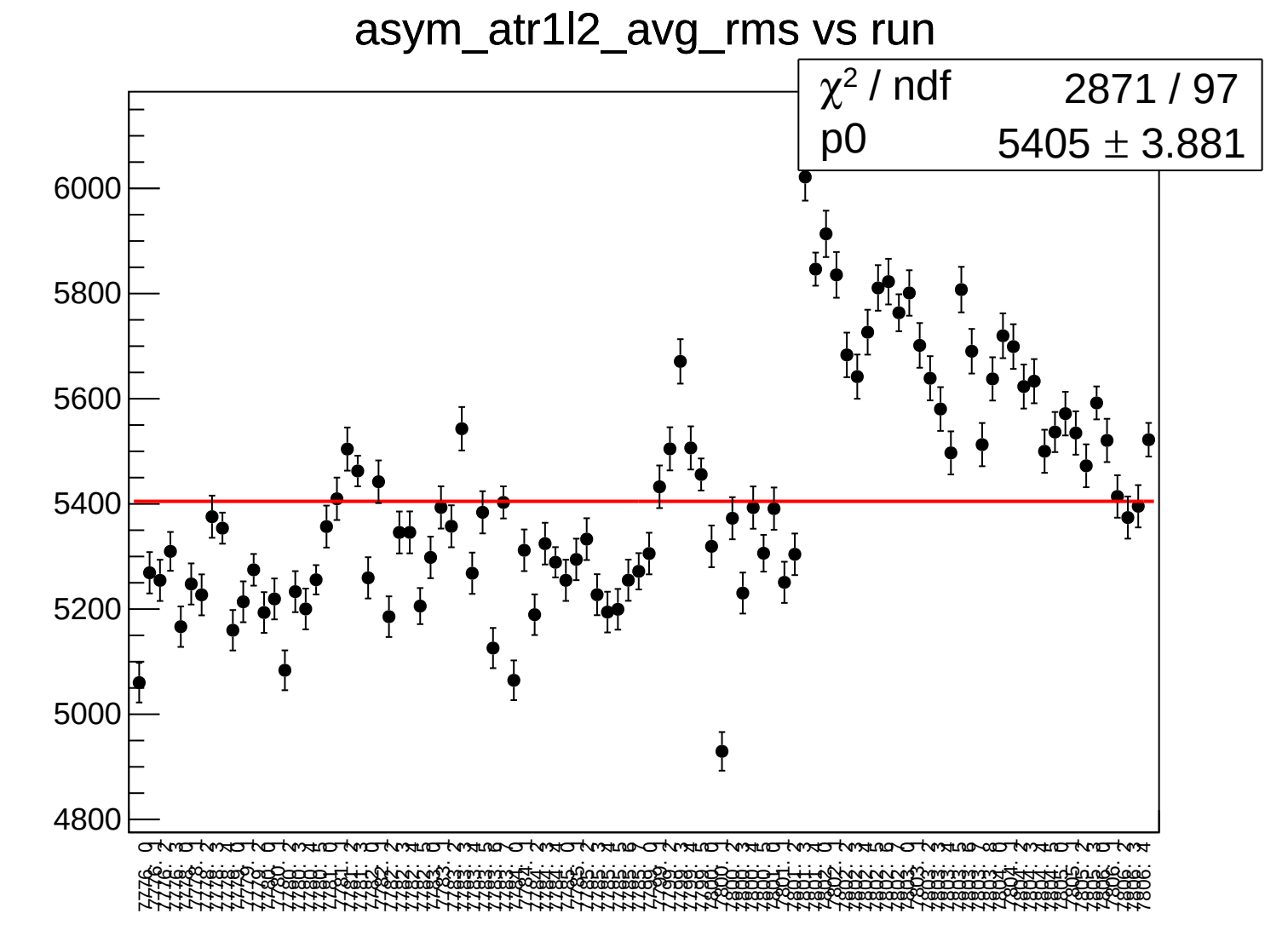
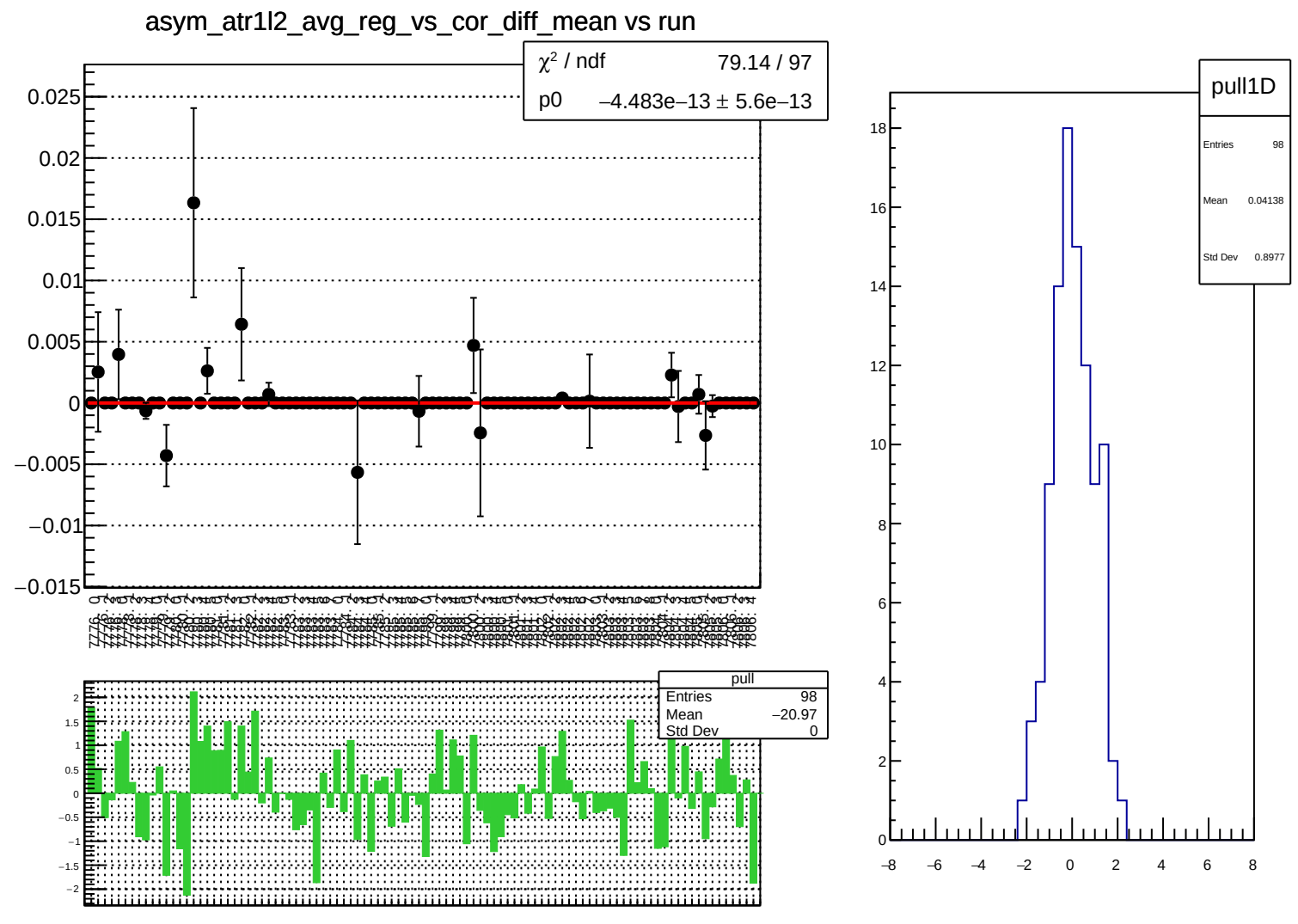
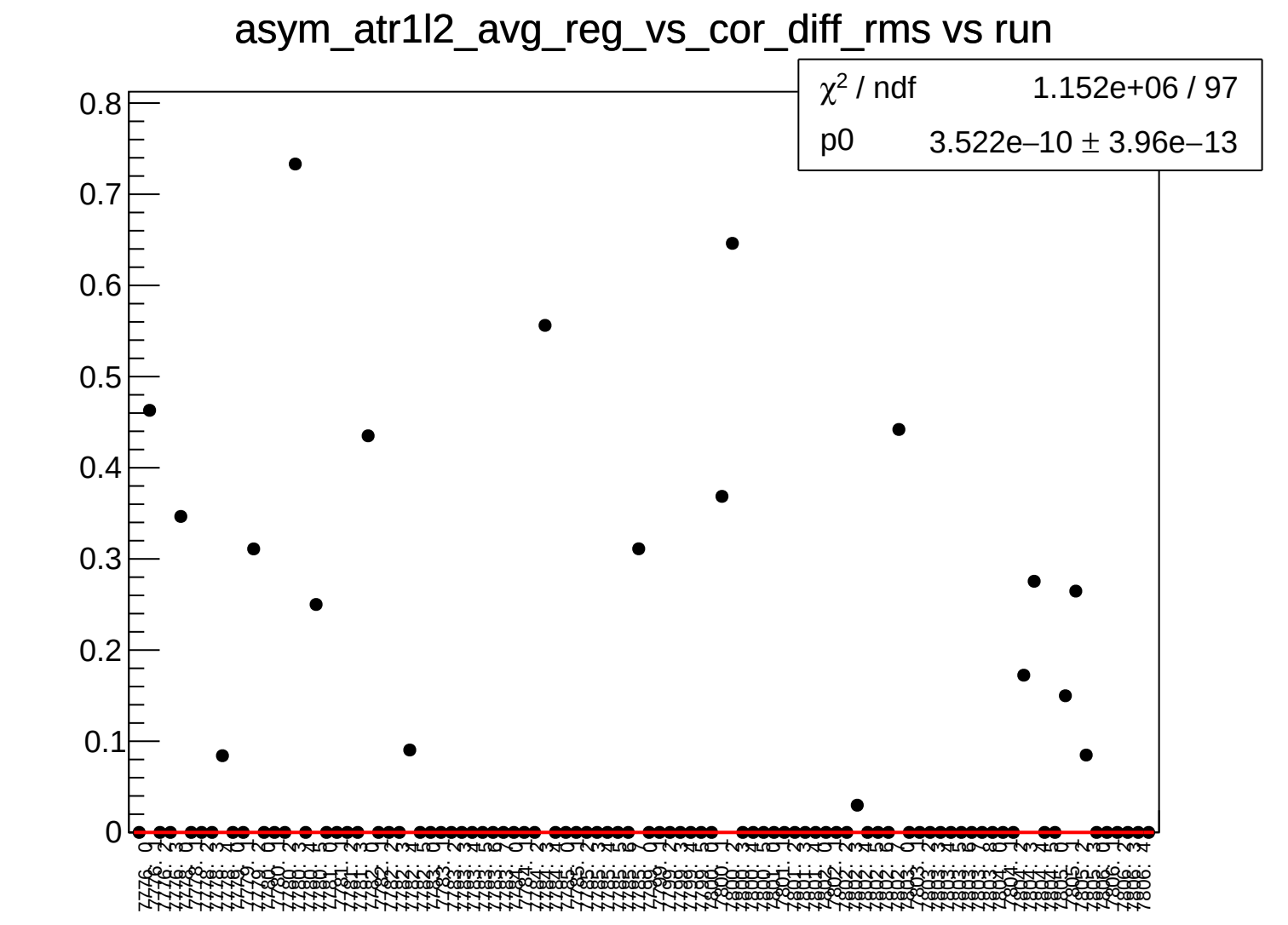
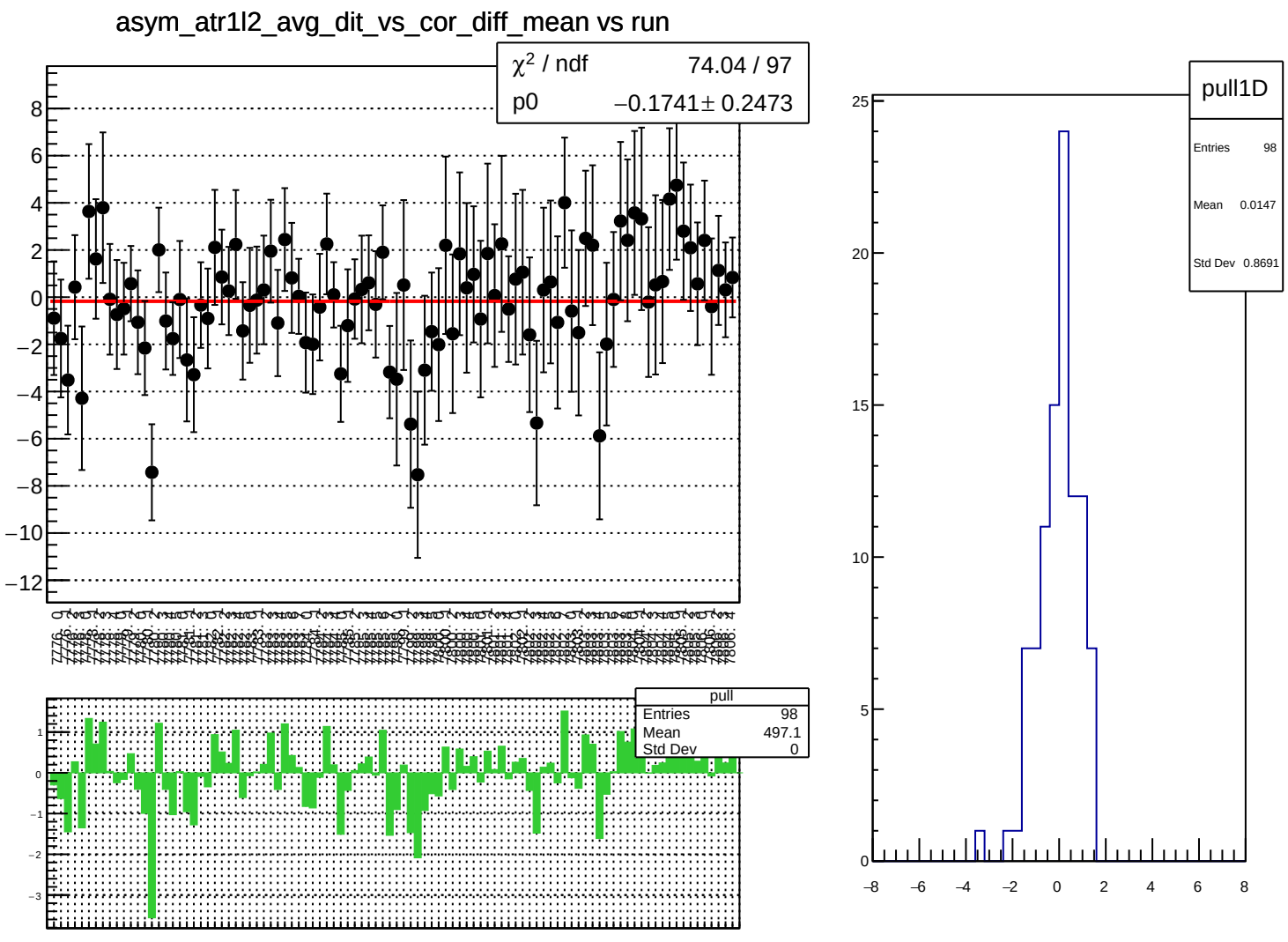
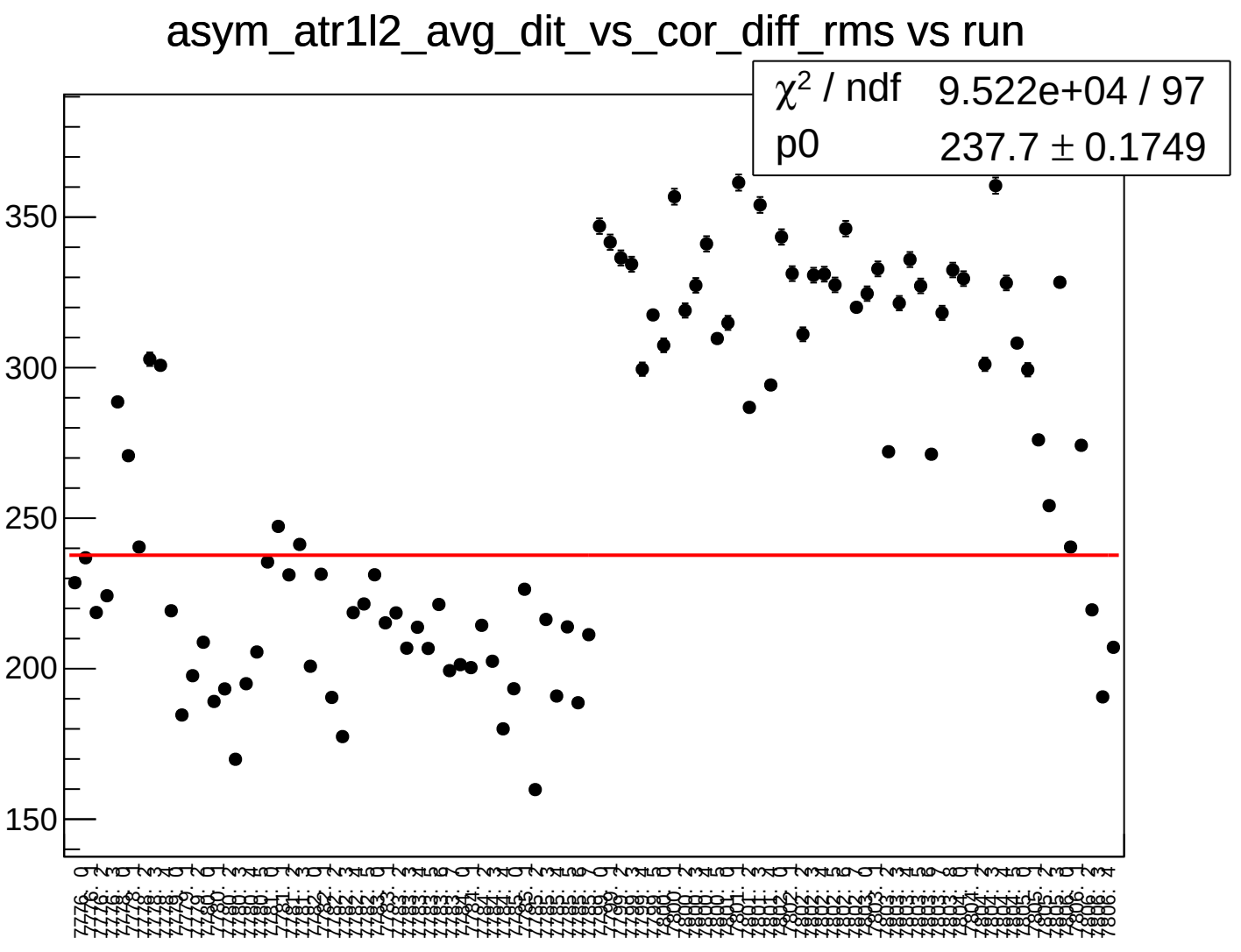
2
4
6
8

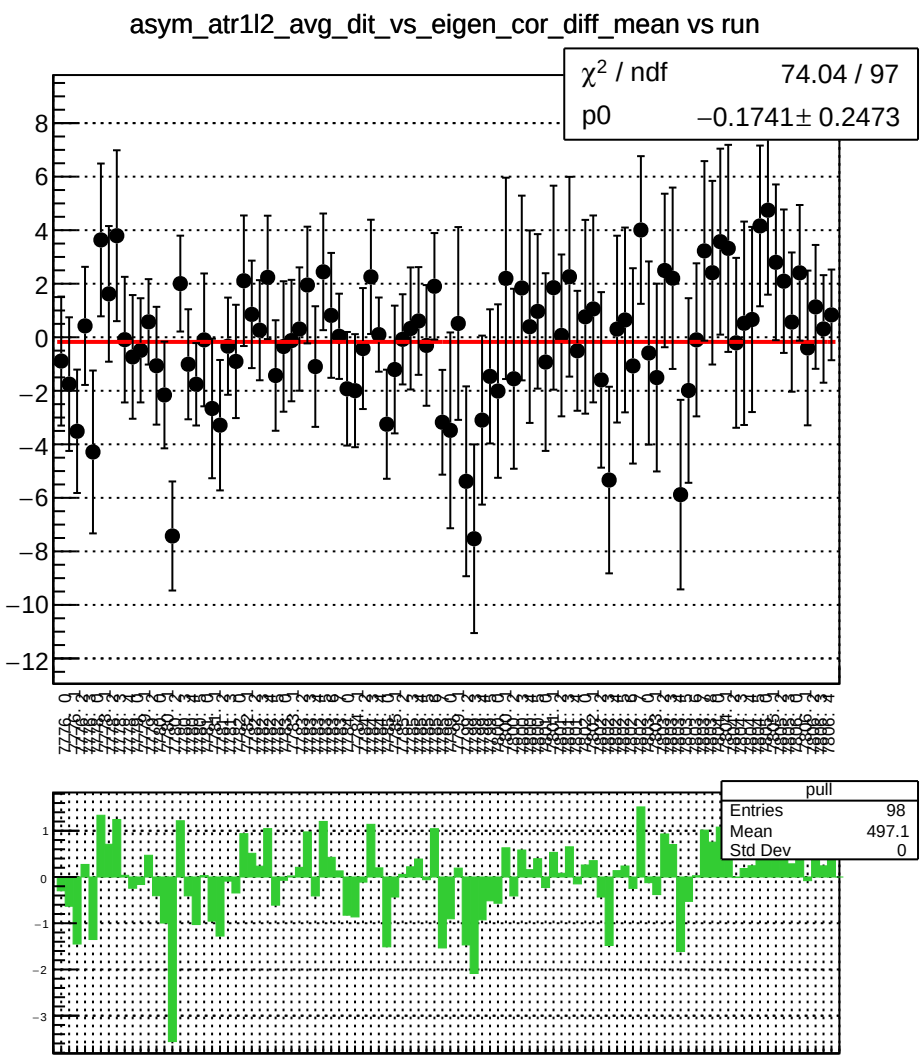

asym_atr1l2_avg_rms vs run
χ² / ndf 2871 / 97
p0 5405 ± 3.881
6000
5800
5600
5400
5200
5000
4800

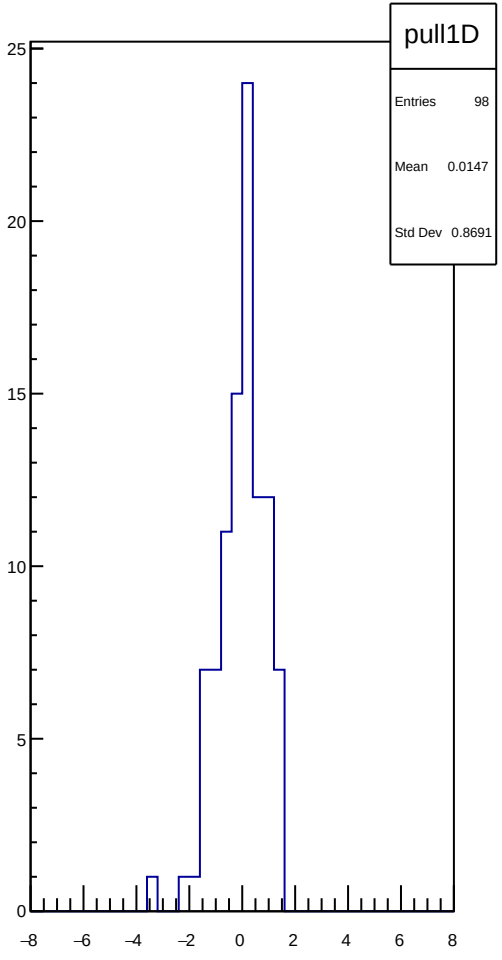

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.14 / 97
p0 −4.483e−13 ± 5.6e−13
pull
Entries 98
Mean −20.97
Std Dev 0
pull1D
Entries 98
Mean 0.04138
Std Dev 0.8977

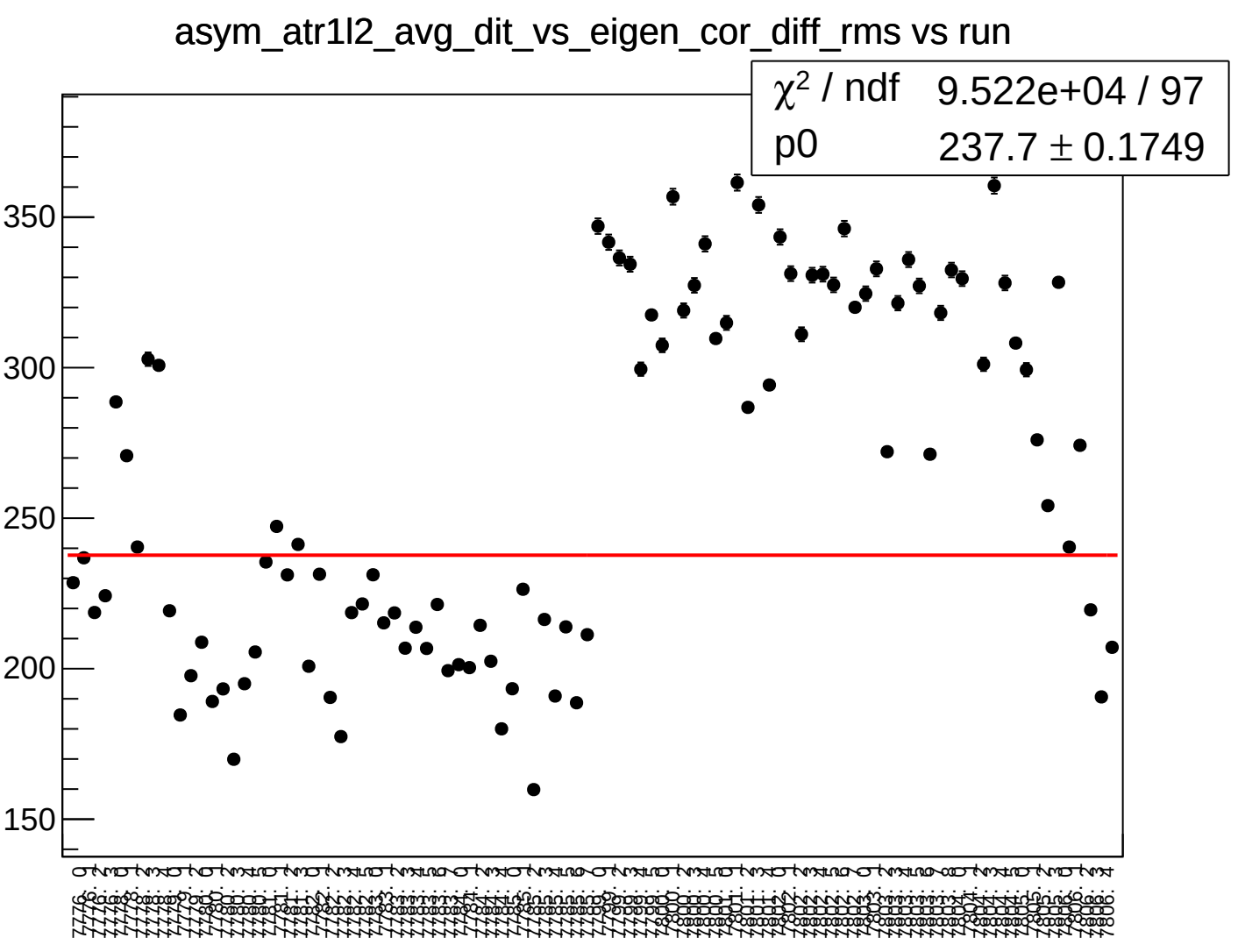

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.152e+06 / 97
p0 3.522e−10 ± 3.96e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

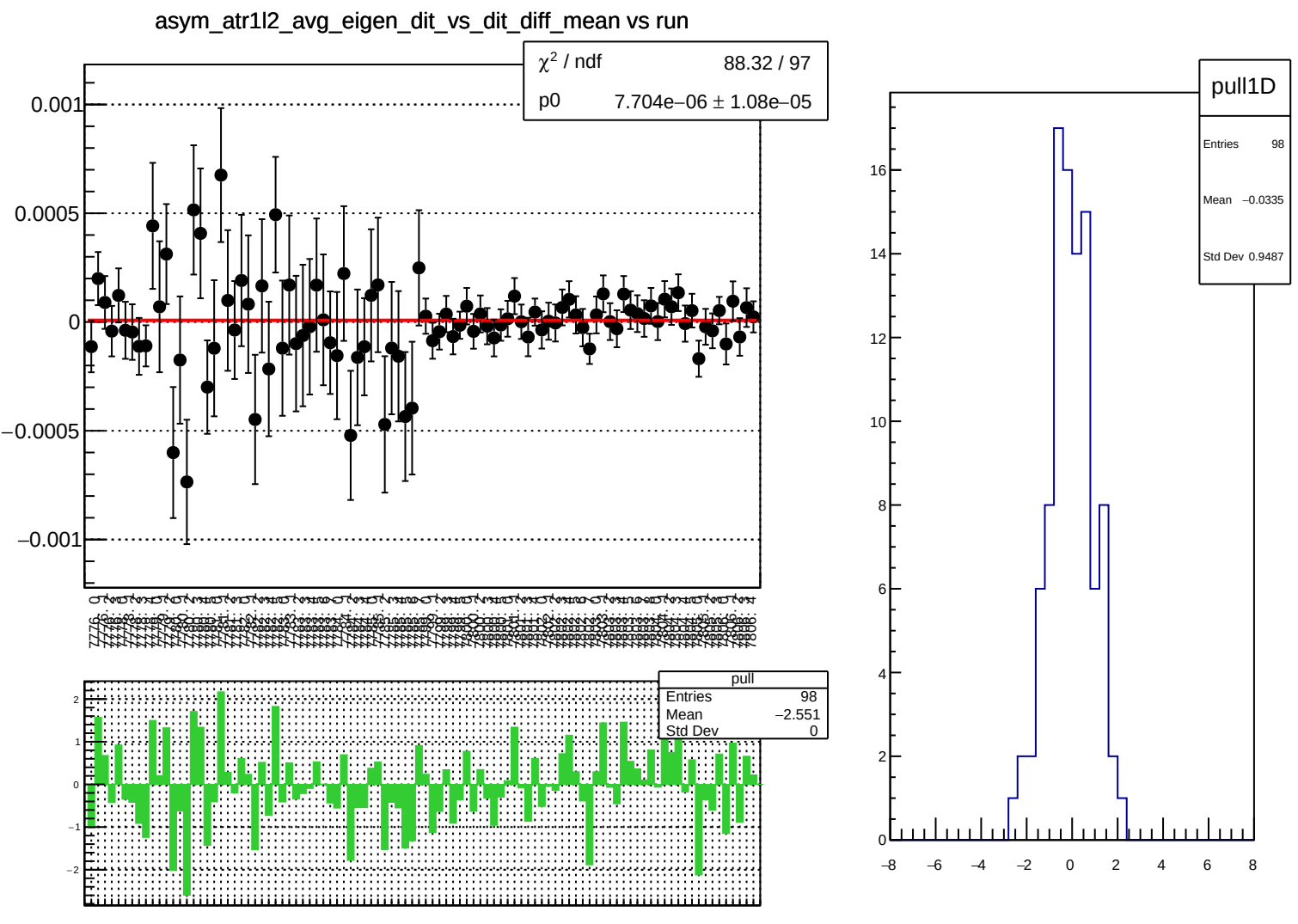

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.04 / 97
p0 −0.1741± 0.2473
pull
Entries 98
Mean 497.1
Std Dev 0
pull1D
Entries 98
Mean 0.0147
Std Dev 0.8691

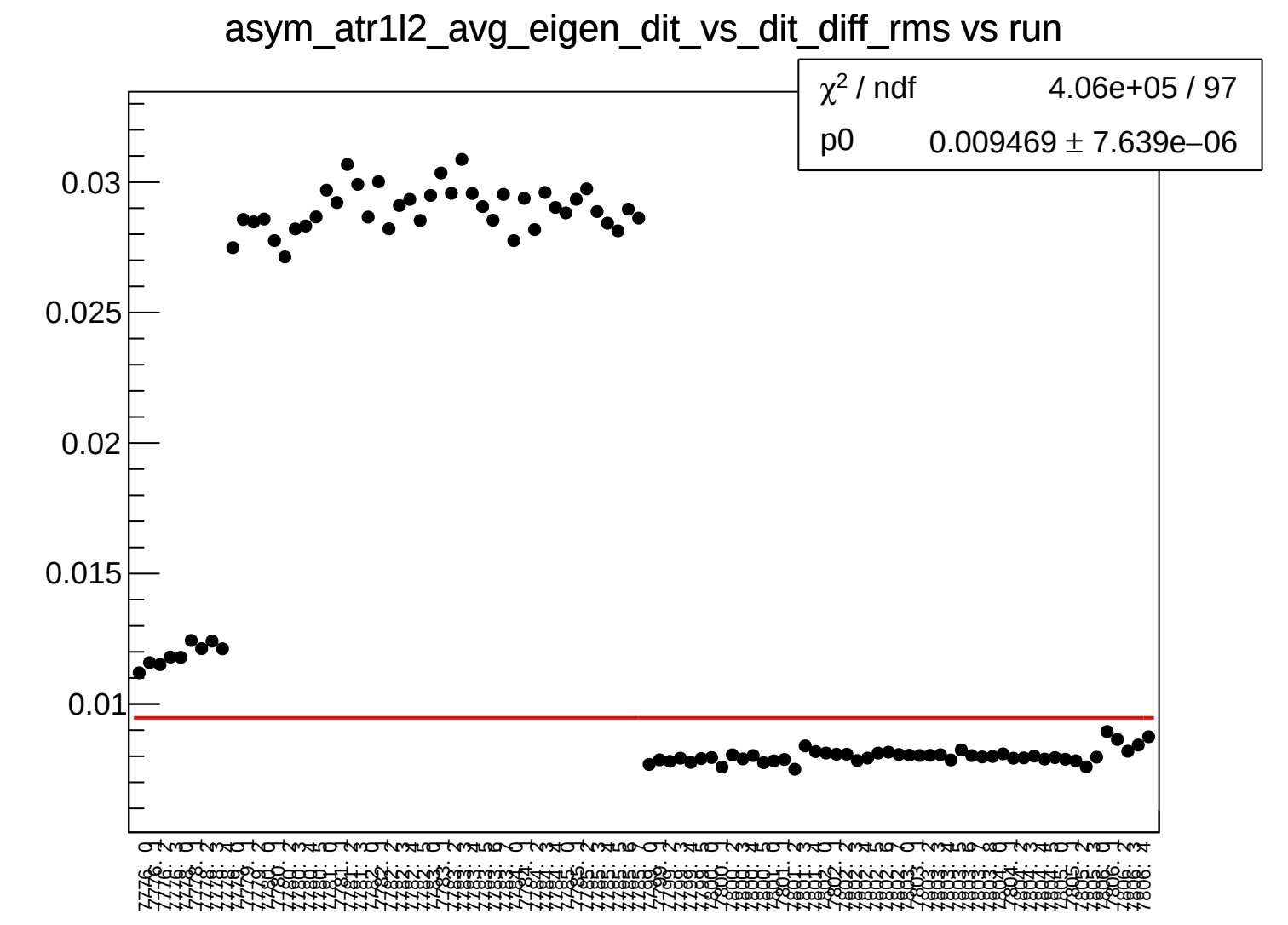

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.522e+04 / 97
p0 237.7 ± 0.1749
350
300
250
200
150

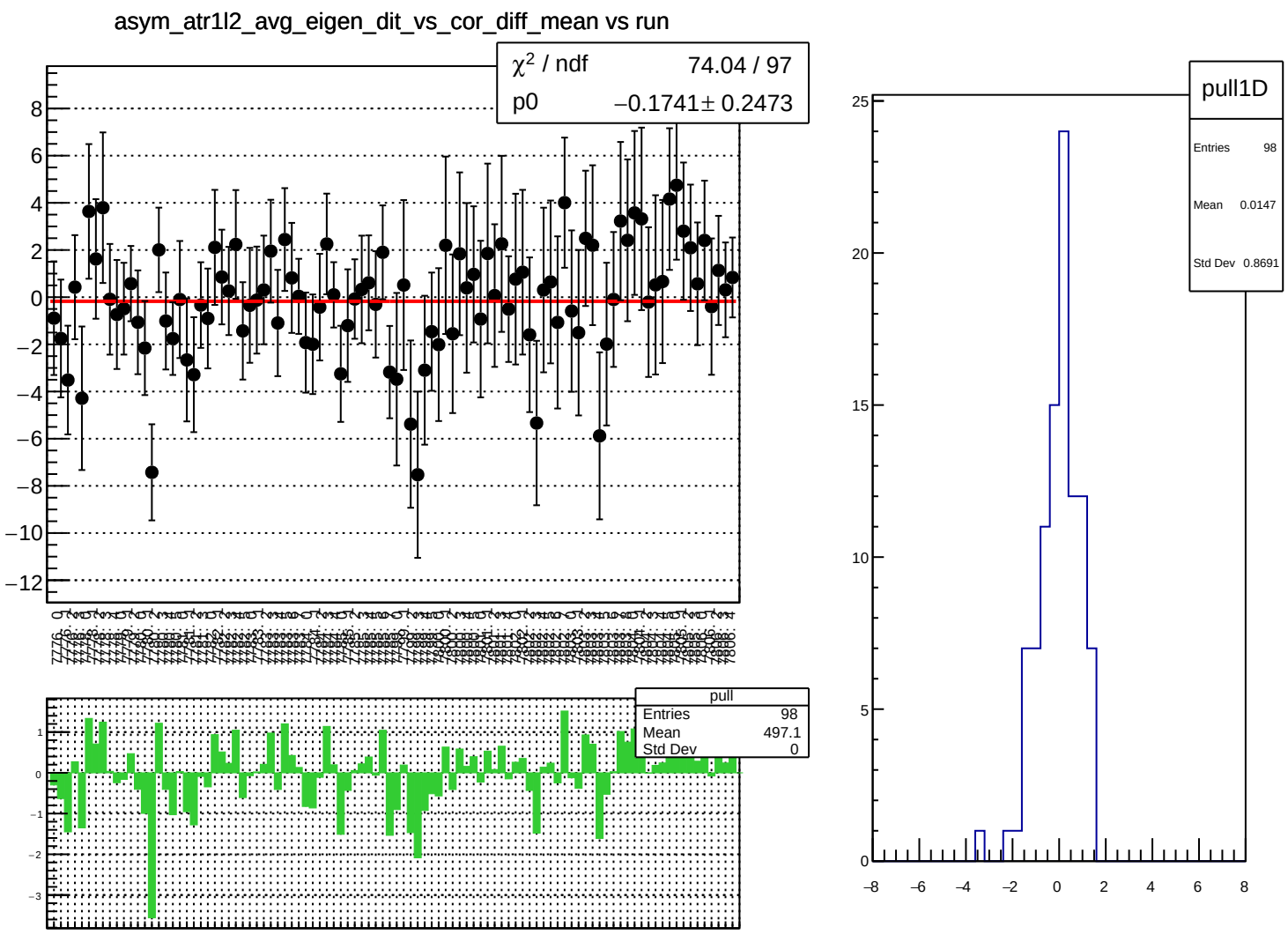

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.04 / 97
p0 −0.1741± 0.2473
pull
Entries 98
Mean 497.1
Std Dev 0

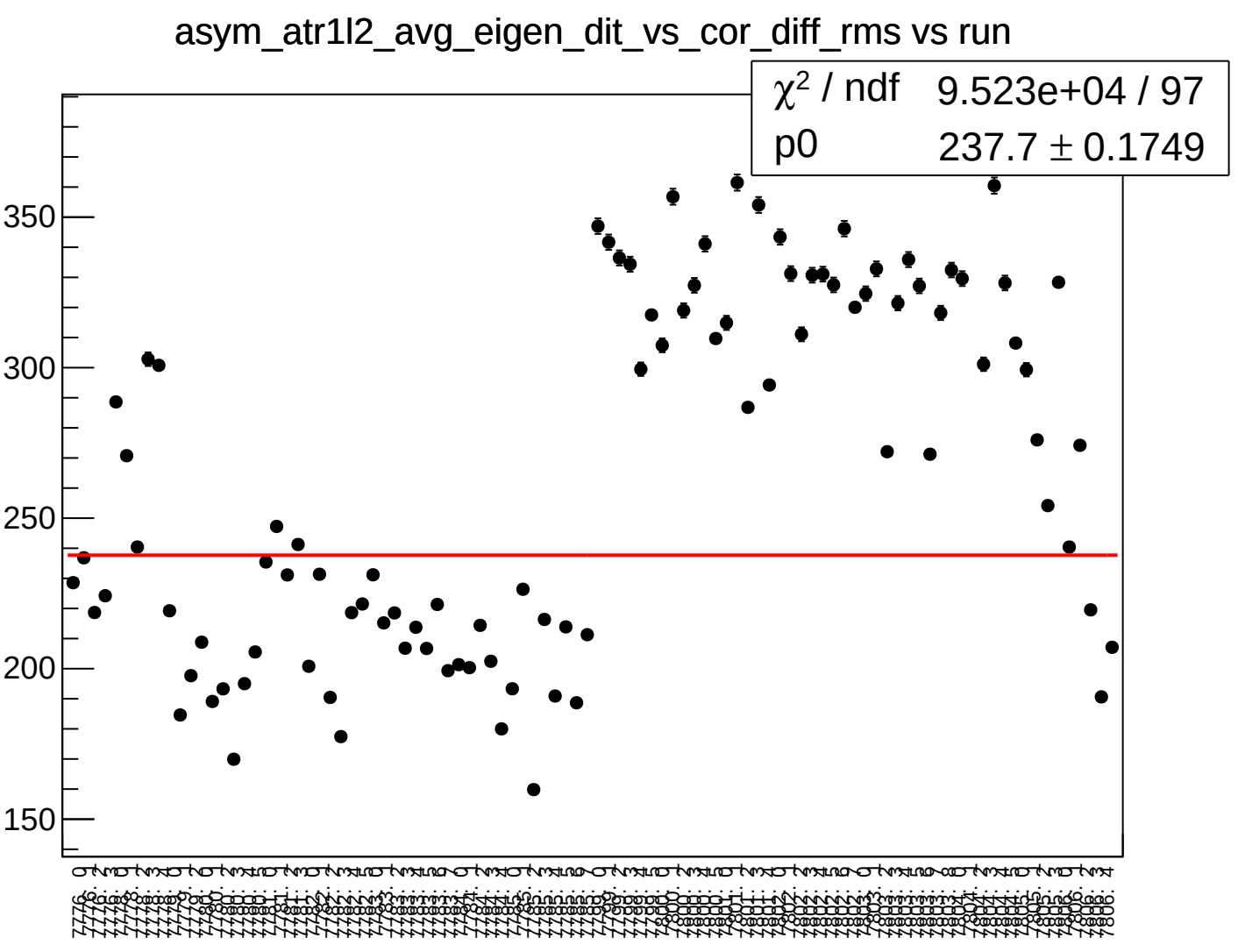

pull1D
Entries 98
Mean 0.0147
Std Dev 0.8691

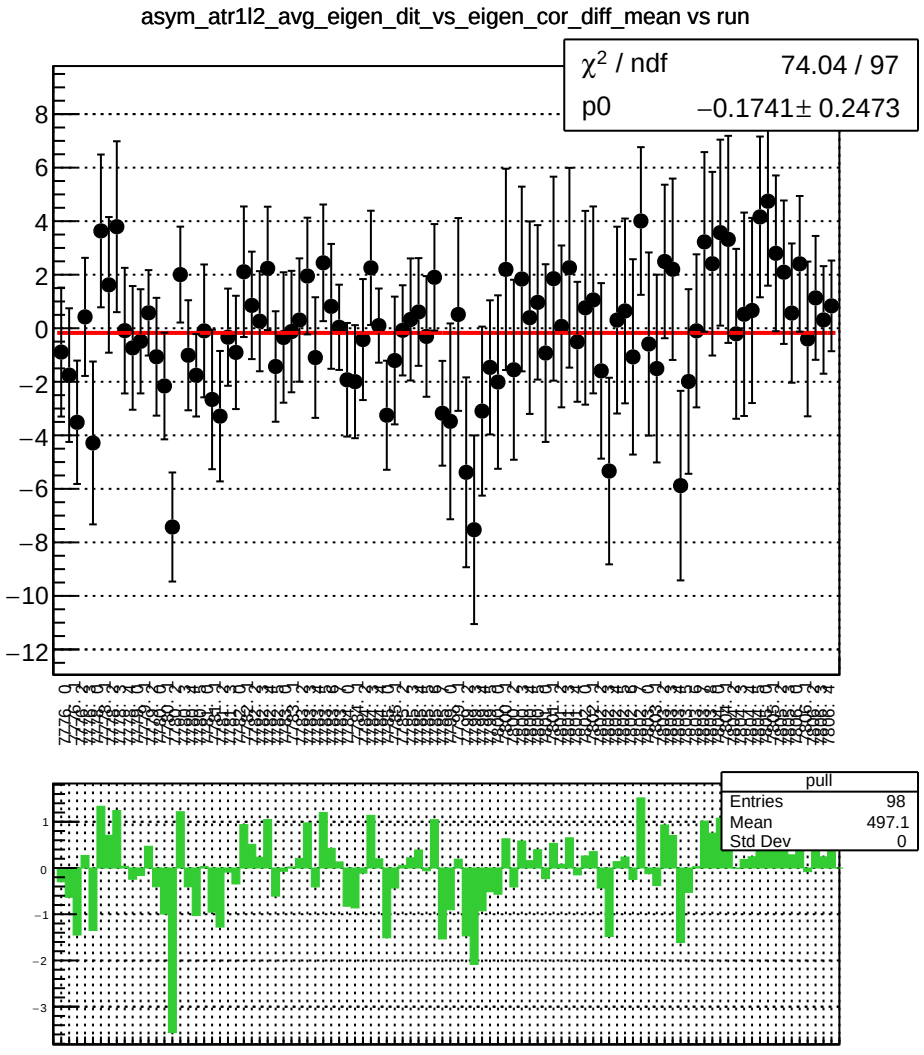

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.522e+04 / 97
p0 237.7 ± 0.1749
350
300
250
200
150

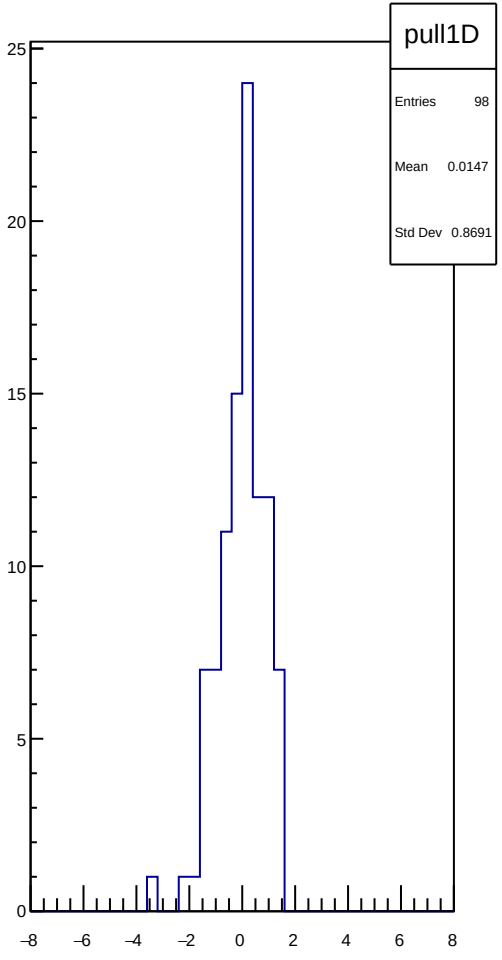

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 88.32 / 97
p0 7.704e−06 ± 1.08e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 98
Mean −2.551
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.0335
Std Dev 0.9487
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

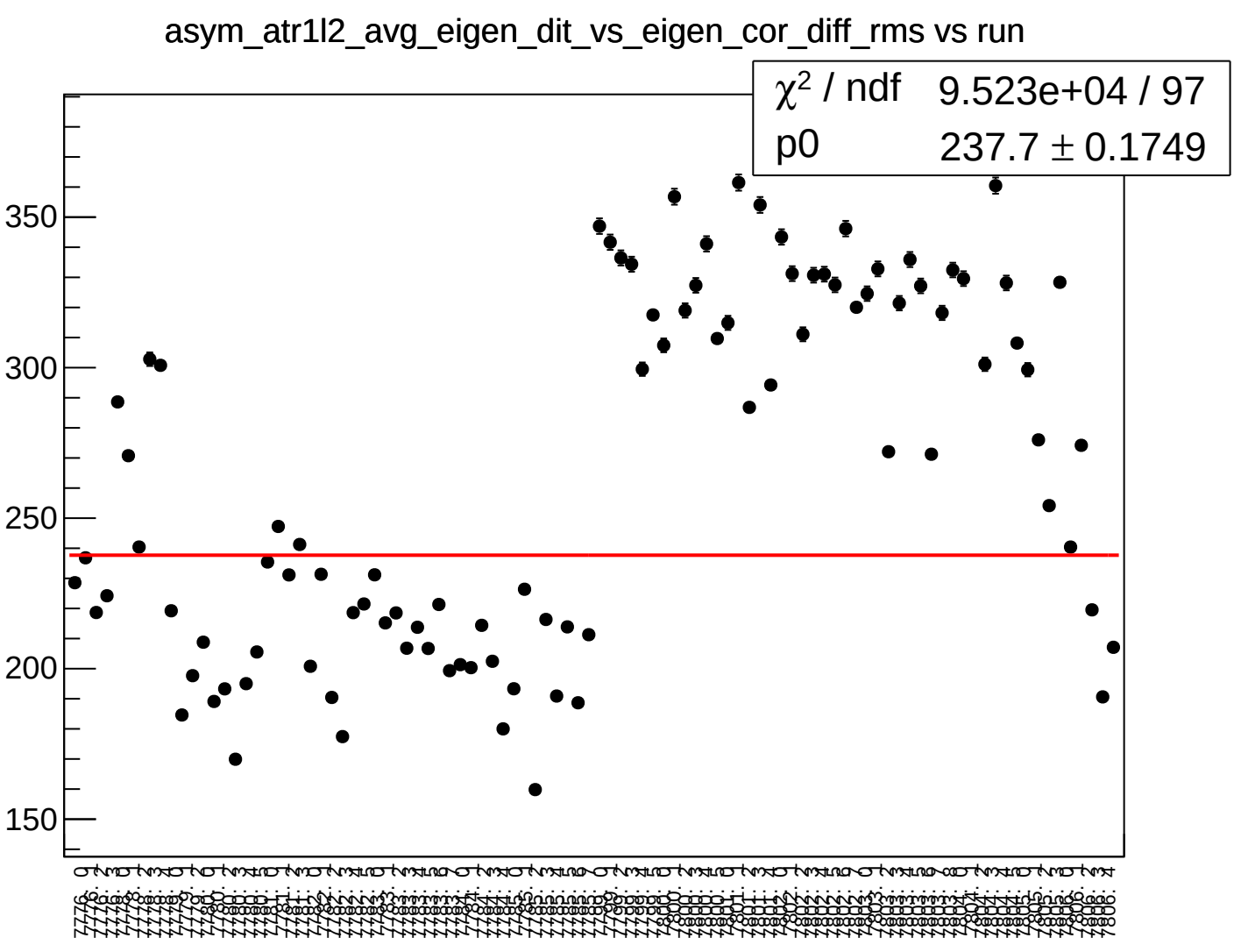

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.06e+05 / 97
p0 0.009469 ± 7.639e−06
0.03
0.025
0.02
0.015
0.01

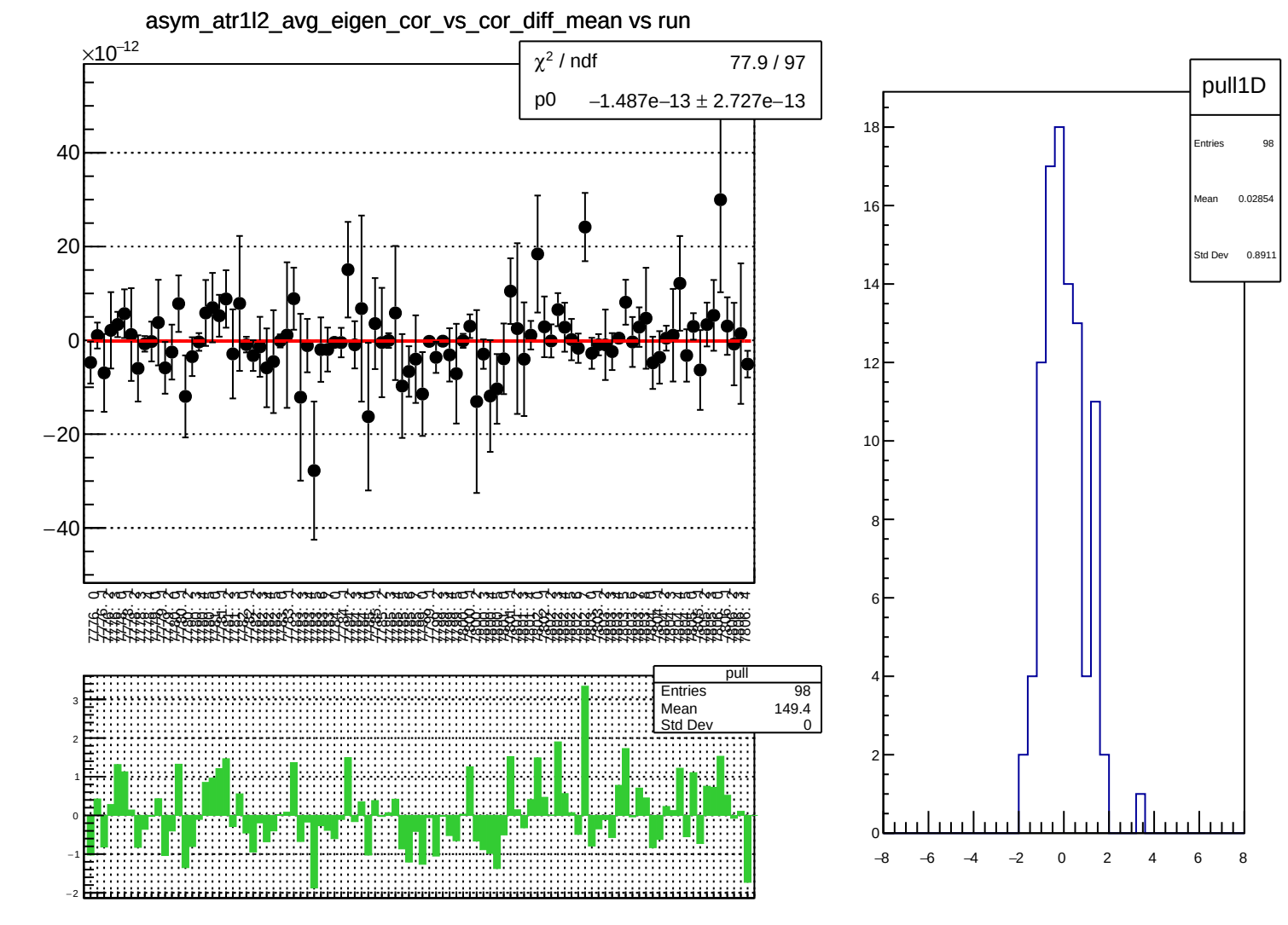

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.04 / 97
p0 −0.1741± 0.2473
pull
Entries 98
Mean 497.1
Std Dev 0
pull1D
Entries 98
Mean 0.0147
Std Dev 0.8691

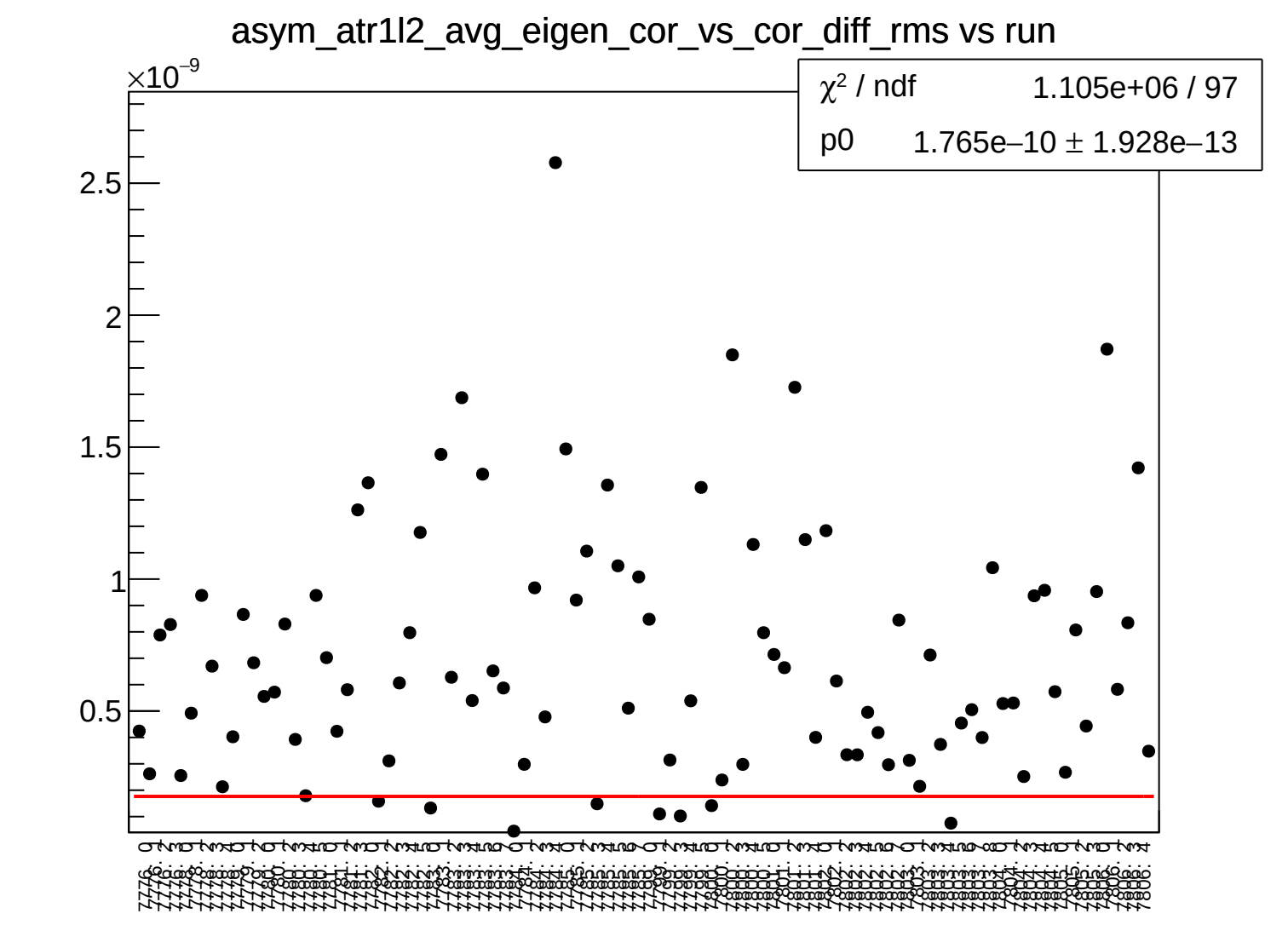

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.523e+04 / 97
p0 237.7 ± 0.1749
350
300
250
200
150

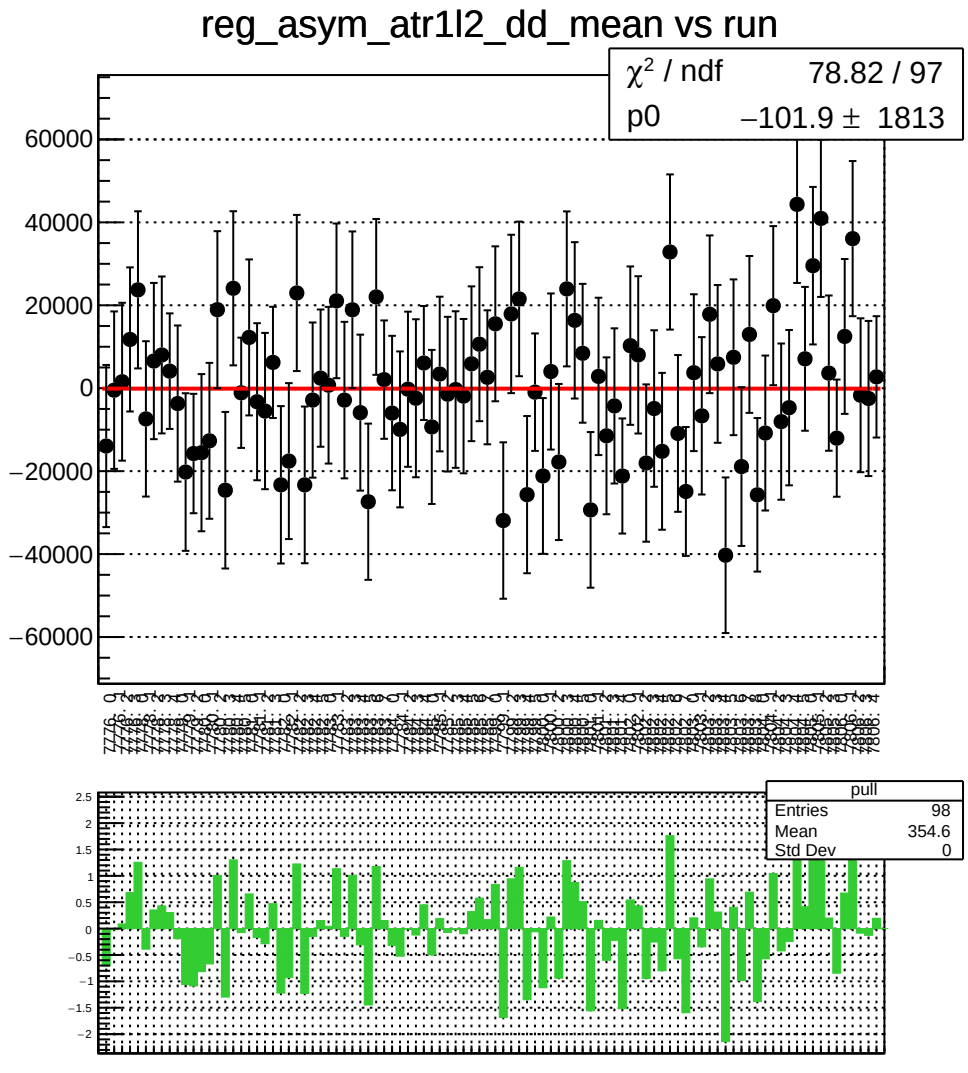

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.04 / 97
p0 −0.1741± 0.2473
pull
Entries 98
Mean 497.1
Std Dev 0

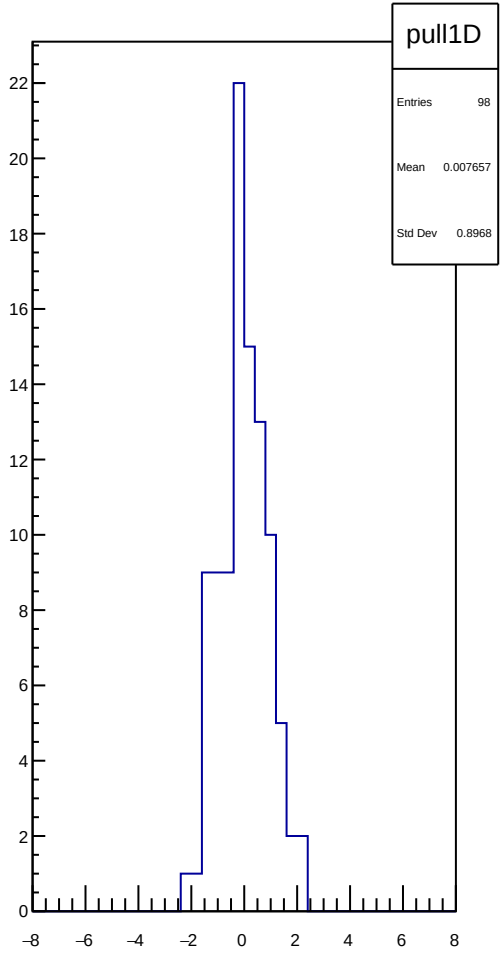

pull1D
Entries 98
Mean 0.0147
Std Dev 0.8691

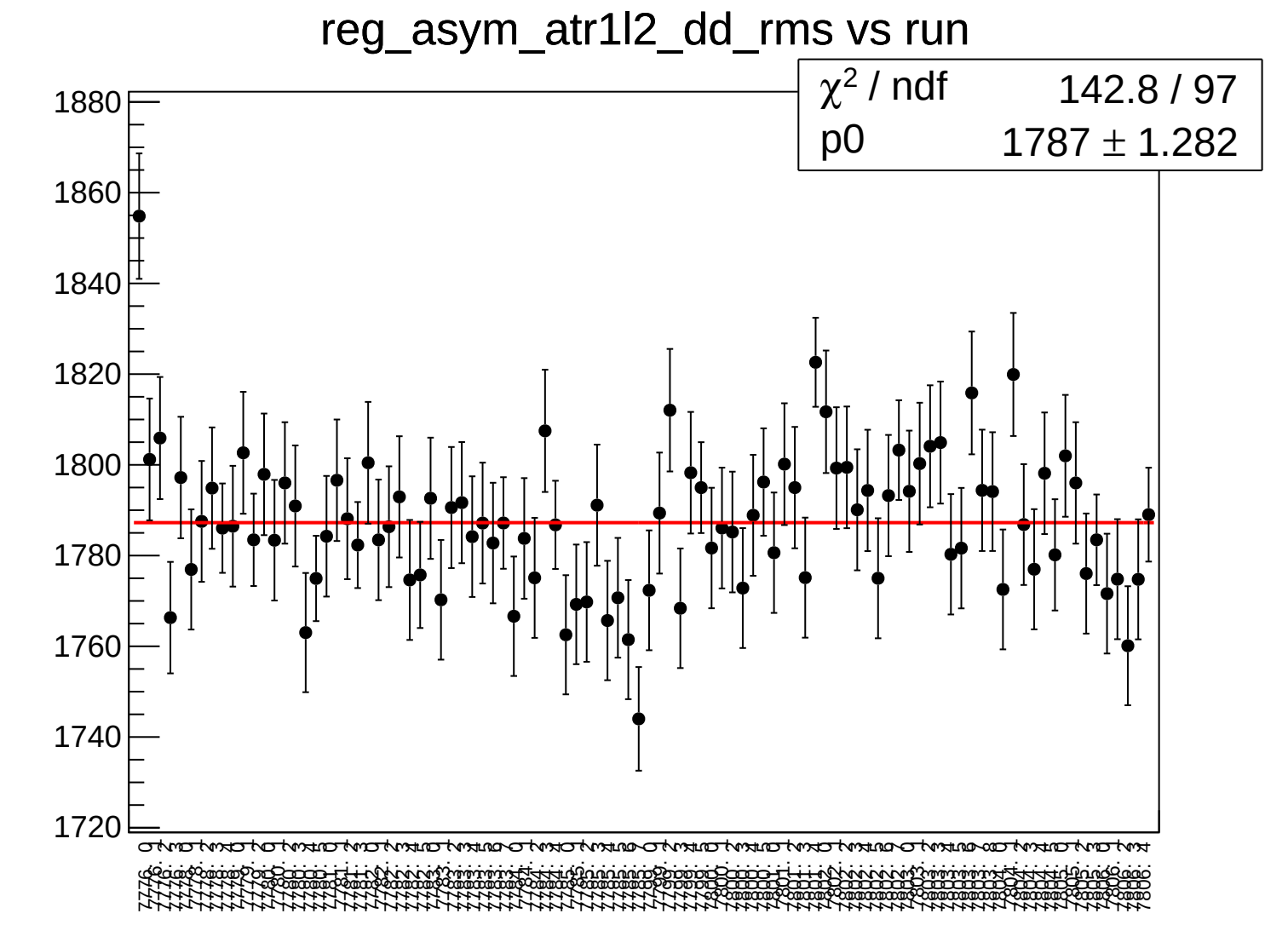

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.523e+04 / 97
p0 237.7 ± 0.1749
350
300
250
200
150

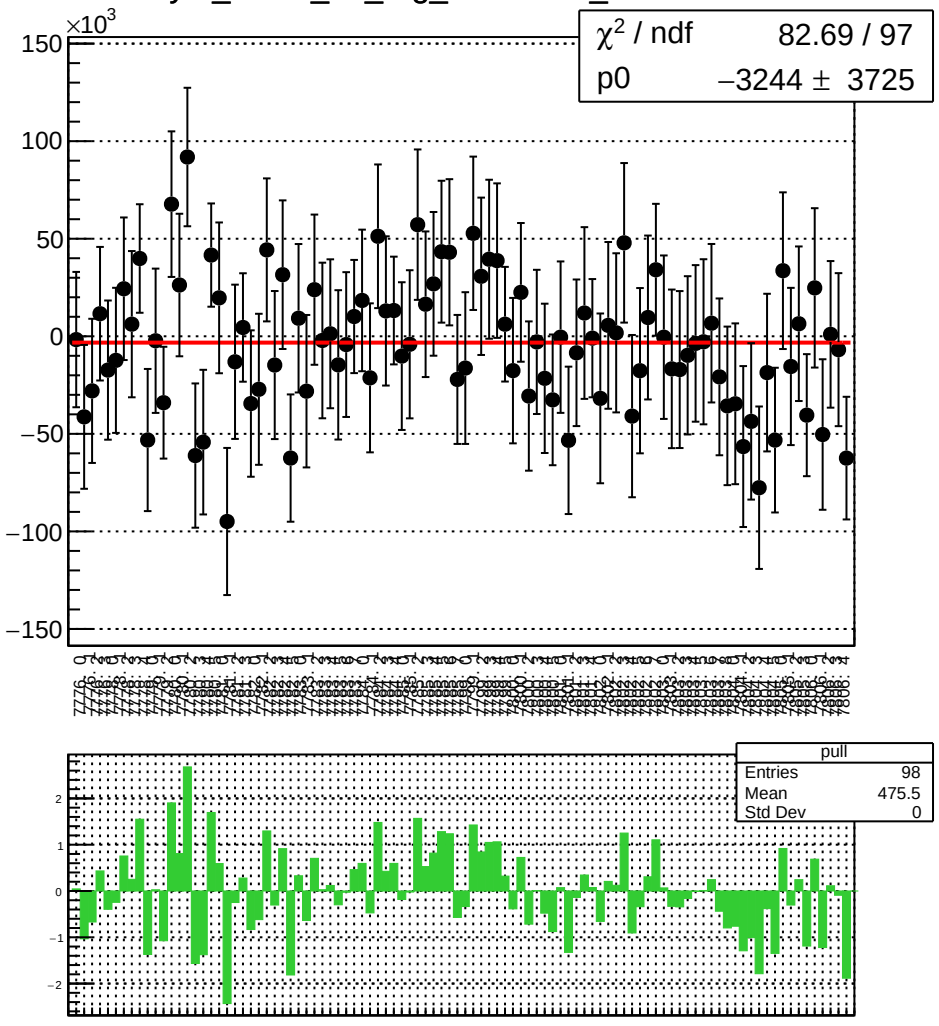

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 77.9 / 97
p0 −1.487e−13 ± 2.727e−13
40
20
0
−20
−40
pull
Entries 98
Mean 149.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02854
Std Dev 0.8911
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

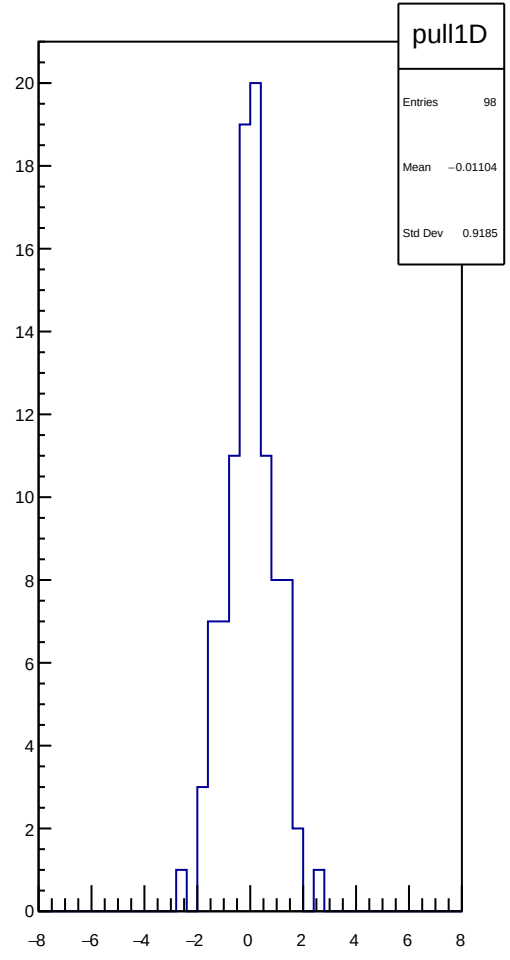

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.105e+06 / 97
p0 1.765e−10 ± 1.928e−13
2.5
2
1.5
1
0.5

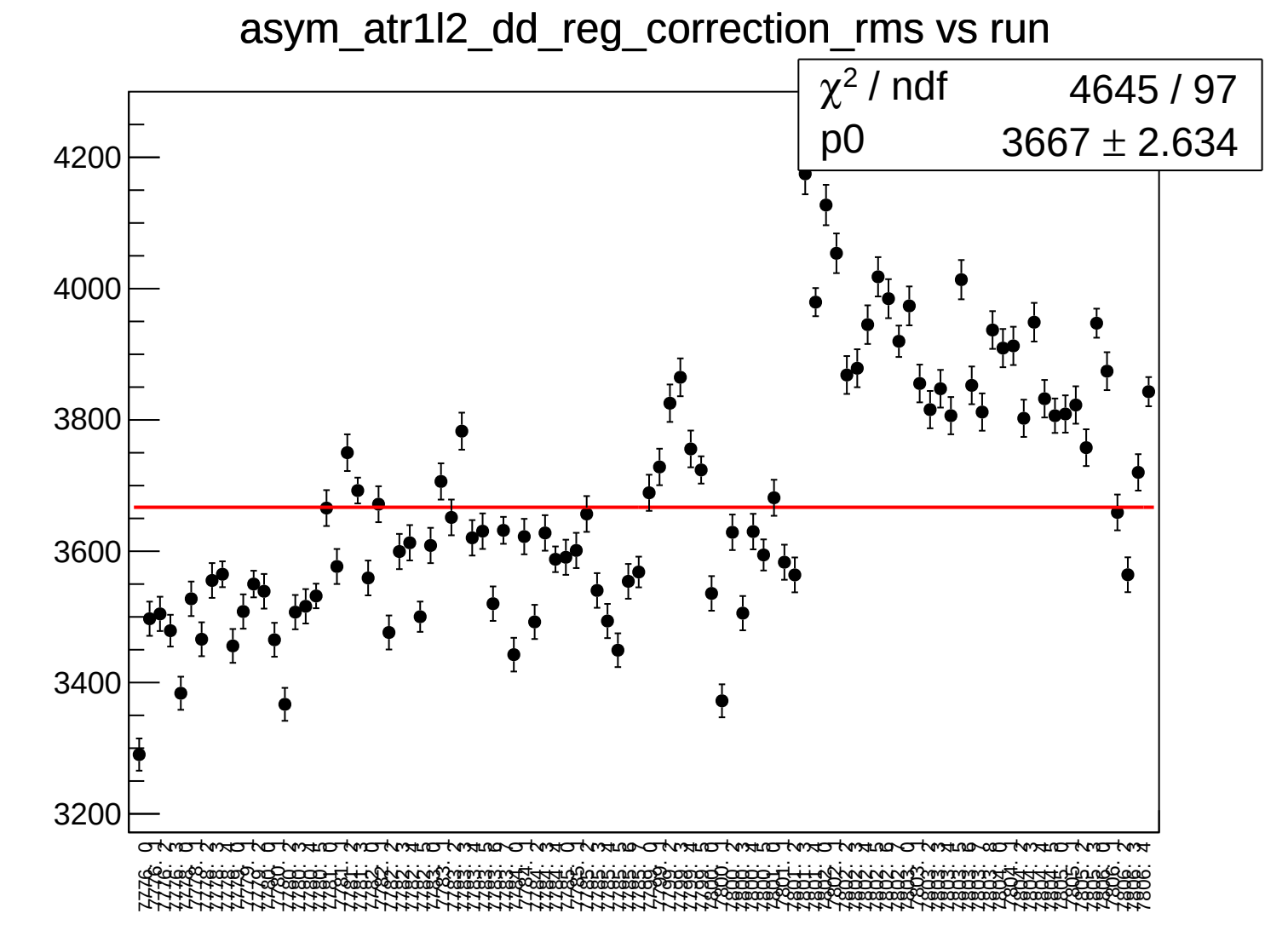

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 78.82 / 97
p0 −101.9 ± 1813
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 354.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

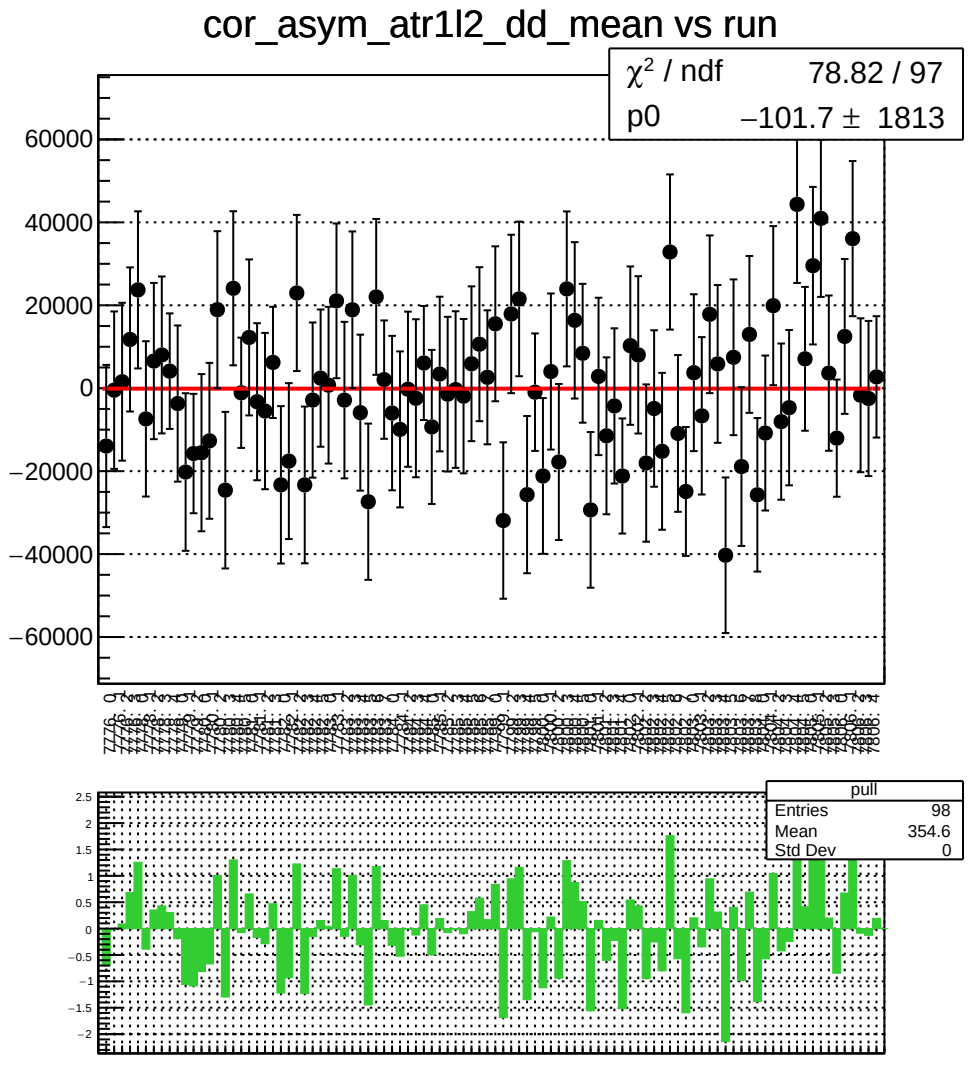

pull1D
Entries 98
Mean 0.007657
Std Dev 0.8968
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

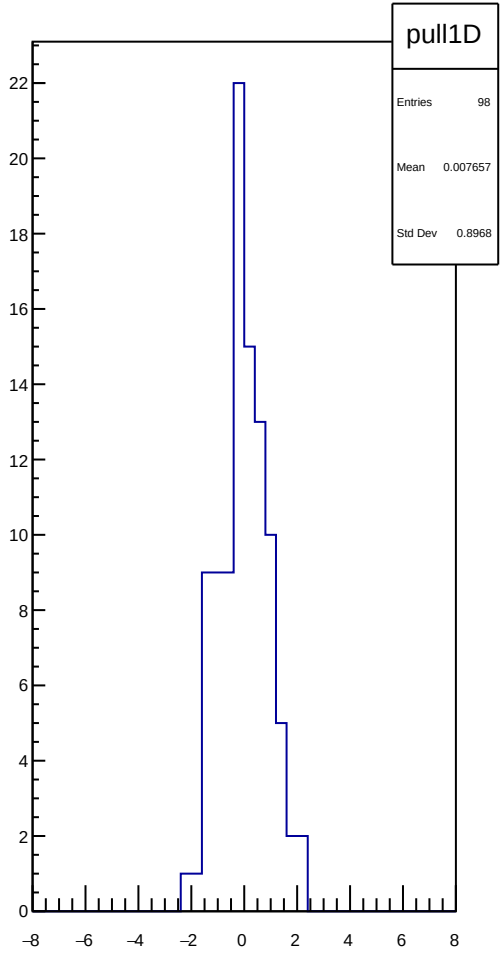

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 142.8 / 97
p0 1787 ± 1.282
1880
1860
1840
1820
1800
1780
1760
1740
1720

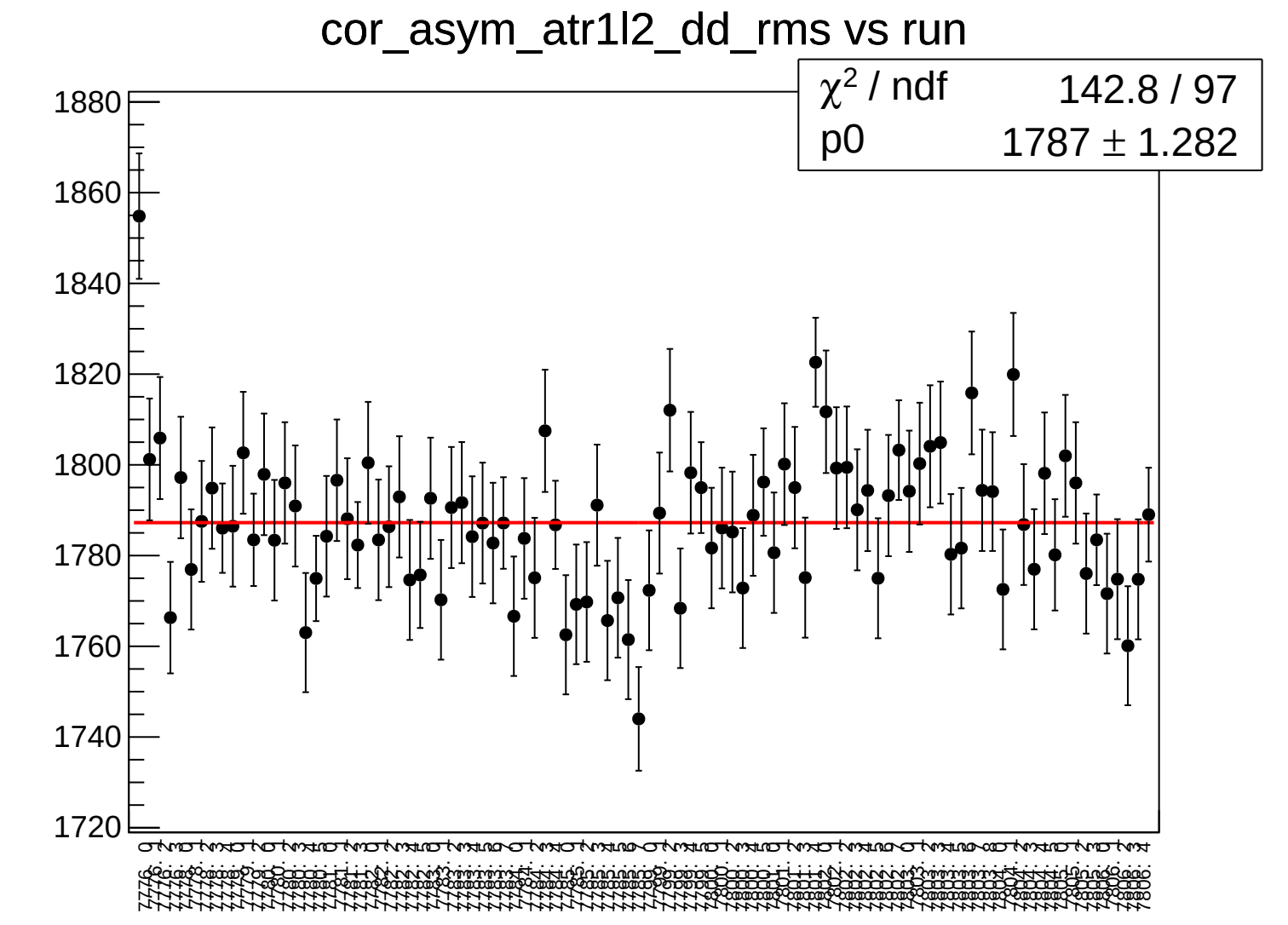

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.69 / 97
p0 −3244 ± 3725
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 475.5
Std Dev 0
2
1
0
−1
−2

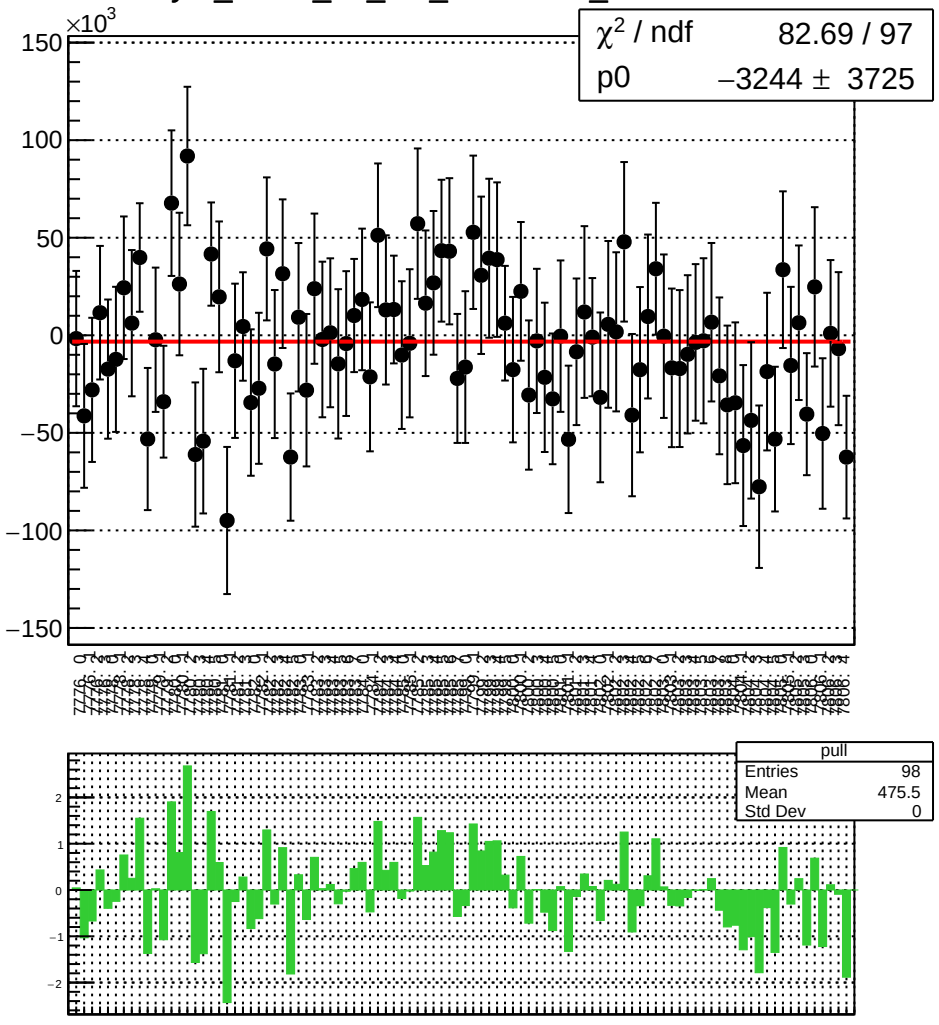

pull1D
Entries 98
Mean −0.01104
Std Dev 0.9185
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

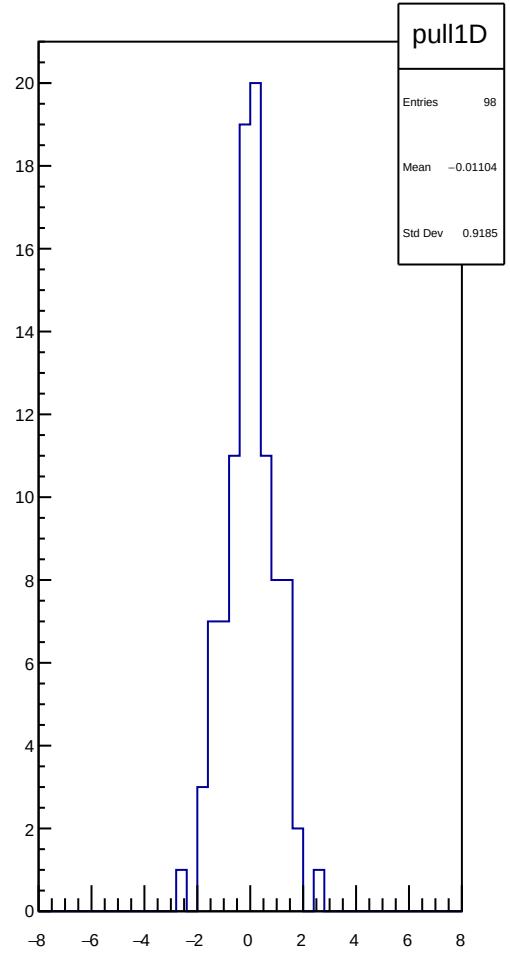

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 4645 / 97
p0 3667 ± 2.634
4200
4000
3800
3600
3400
3200

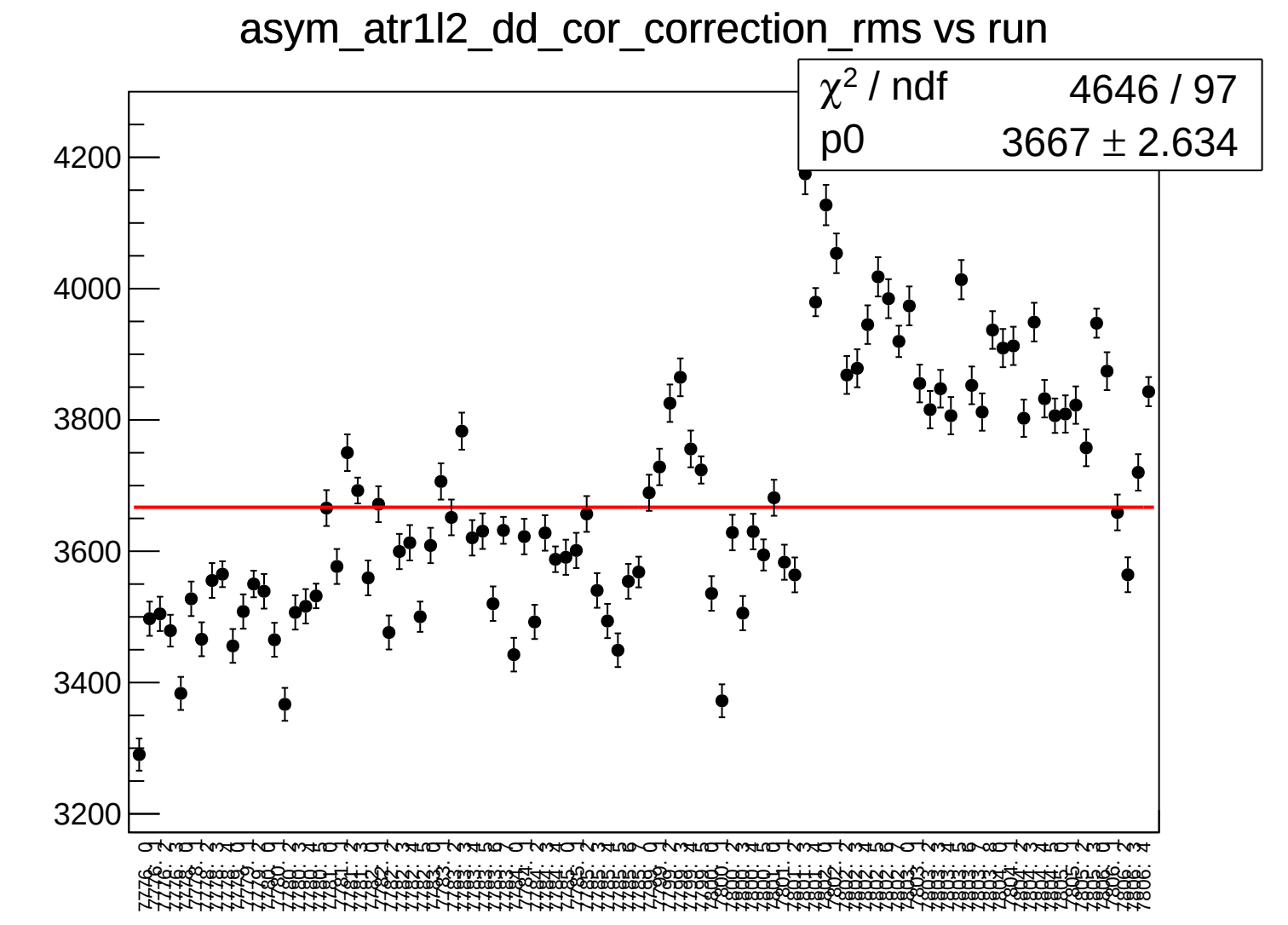

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 78.82 / 97
p0 −101.7 ± 1813
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 354.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

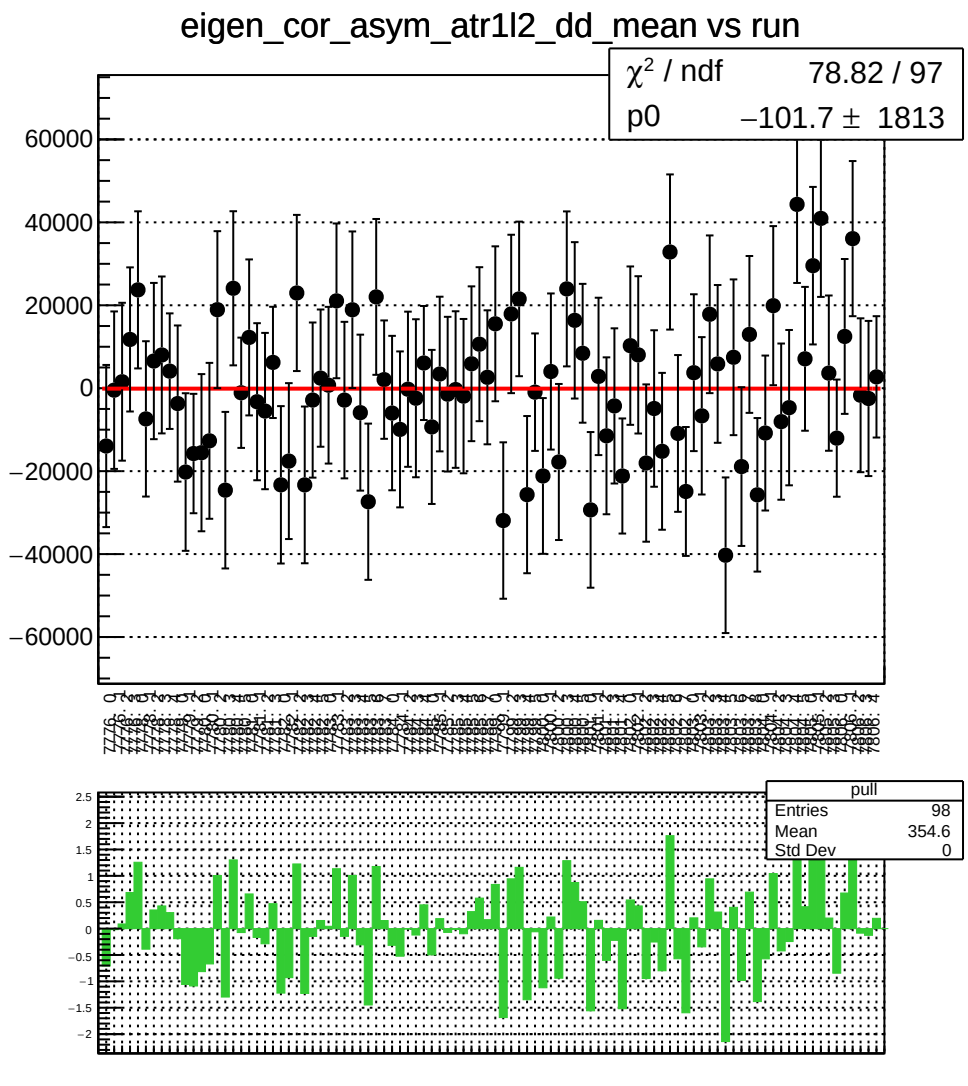

pull1D
Entries 98
Mean 0.007657
Std Dev 0.8968
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

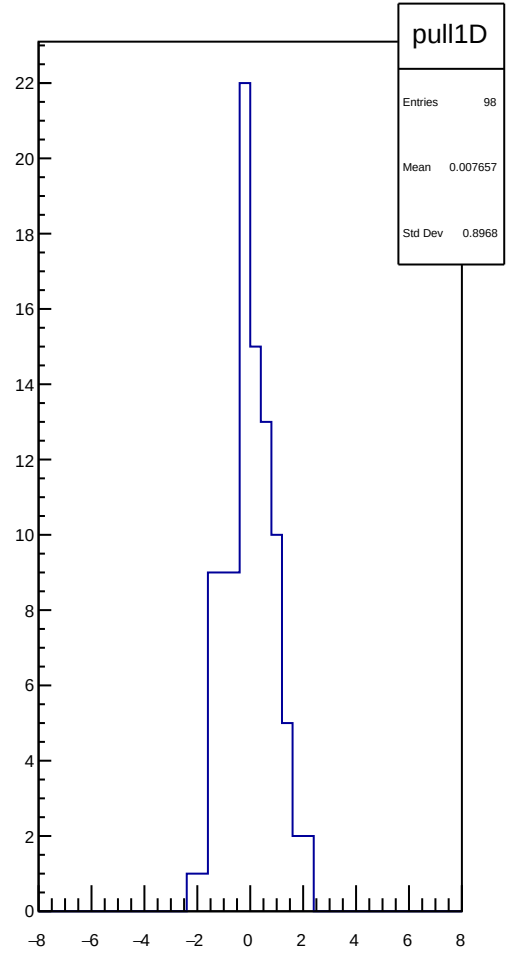

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 142.8 / 97
p0 1787 ± 1.282
1880
1860
1840
1820
1800
1780
1760
1740
1720

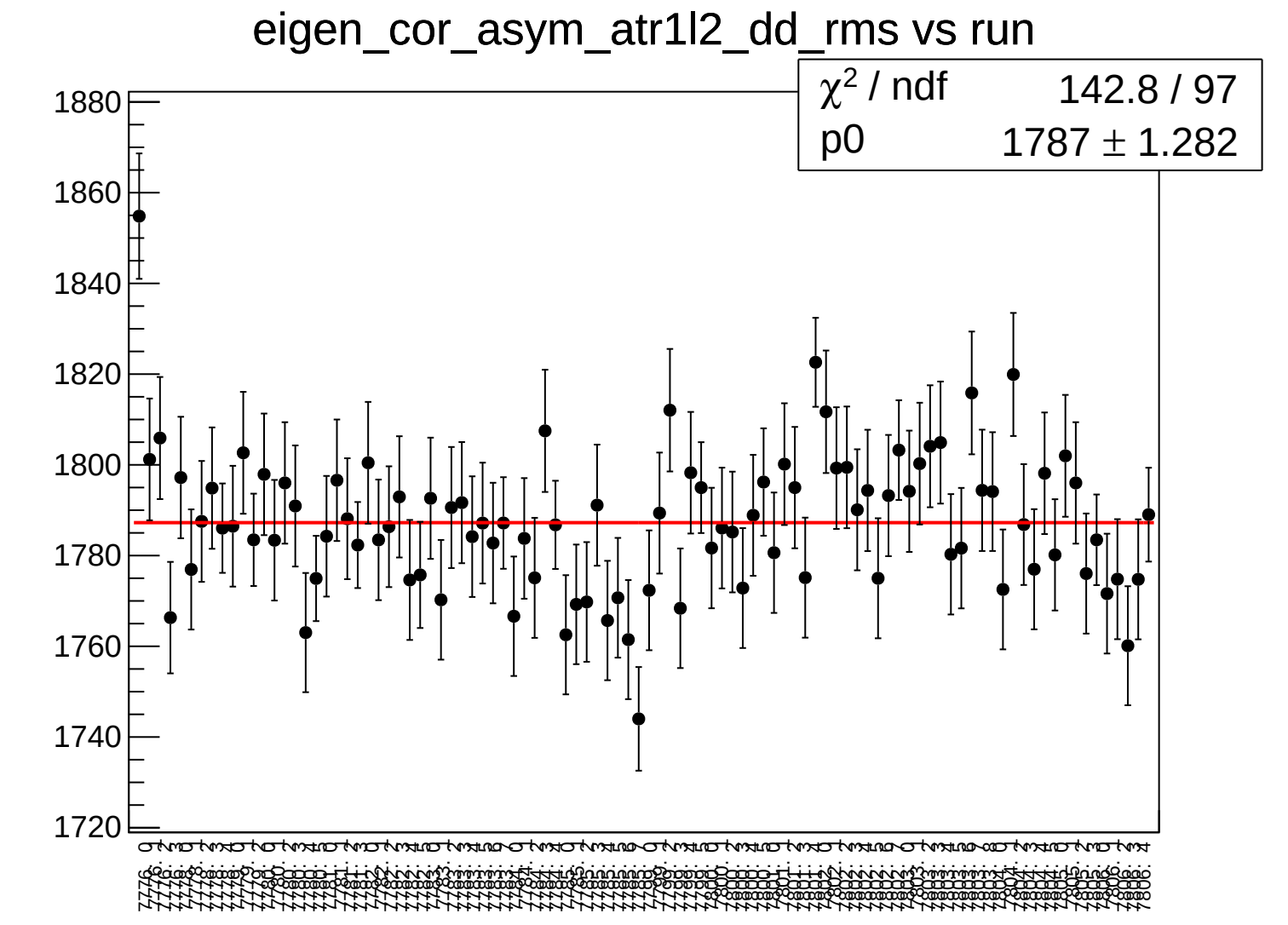

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.69 / 97
p0 −3244 ± 3725
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 475.5
Std Dev 0
2
1
0
−1
−2

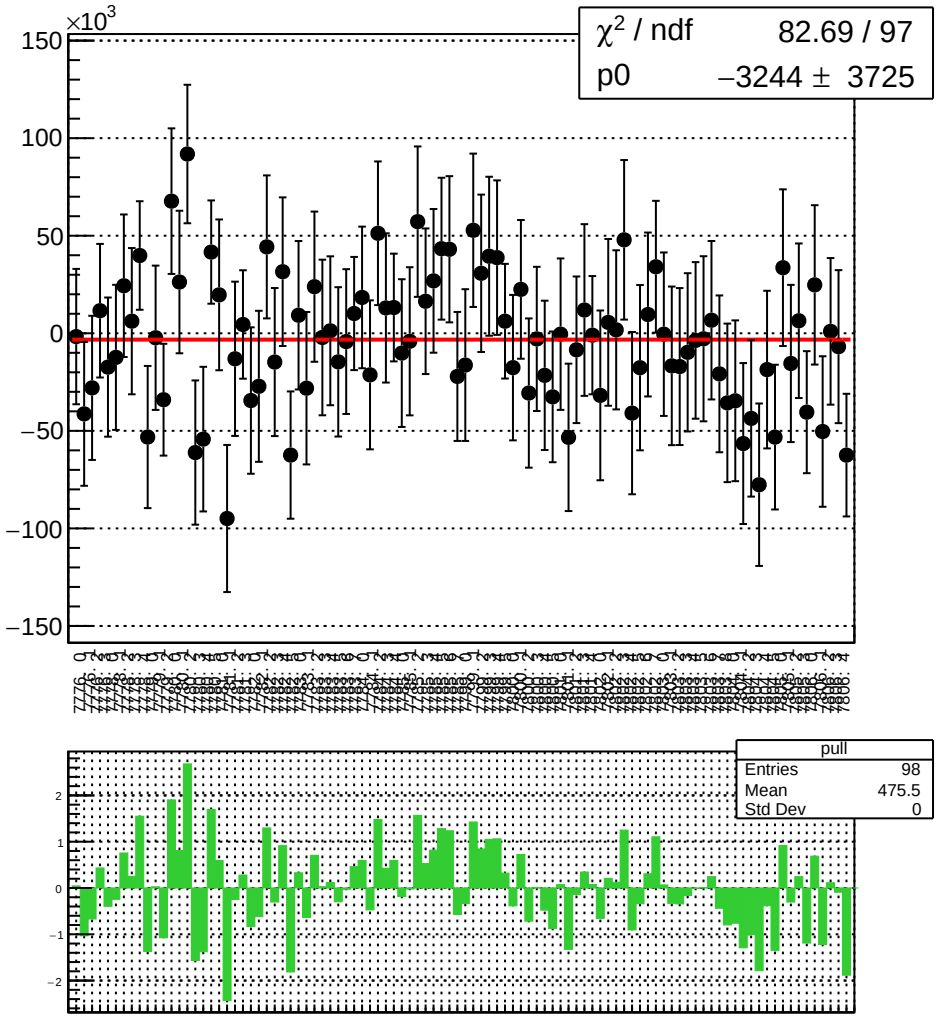

pull1D
Entries 98
Mean −0.01104
Std Dev 0.9185
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

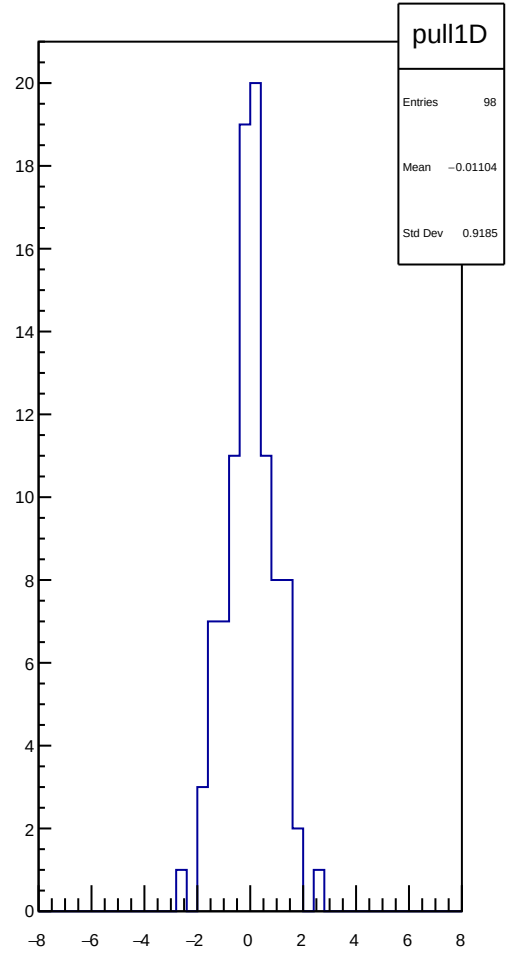

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 4646 / 97
p0 3667 ± 2.634
4200
4000
3800
3600
3400
3200

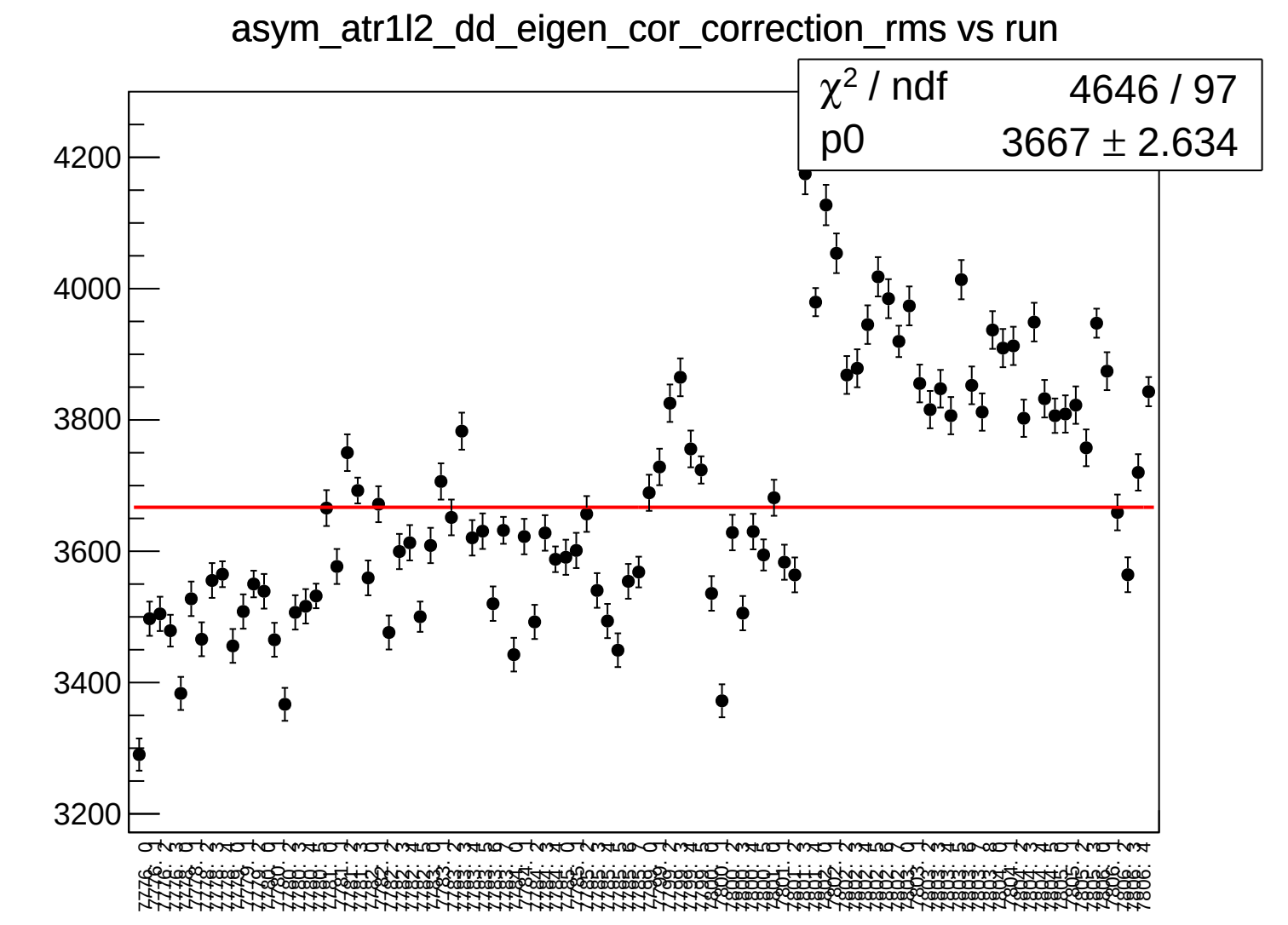

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 78.82 / 97
p0 −101.7 ± 1813
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 354.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

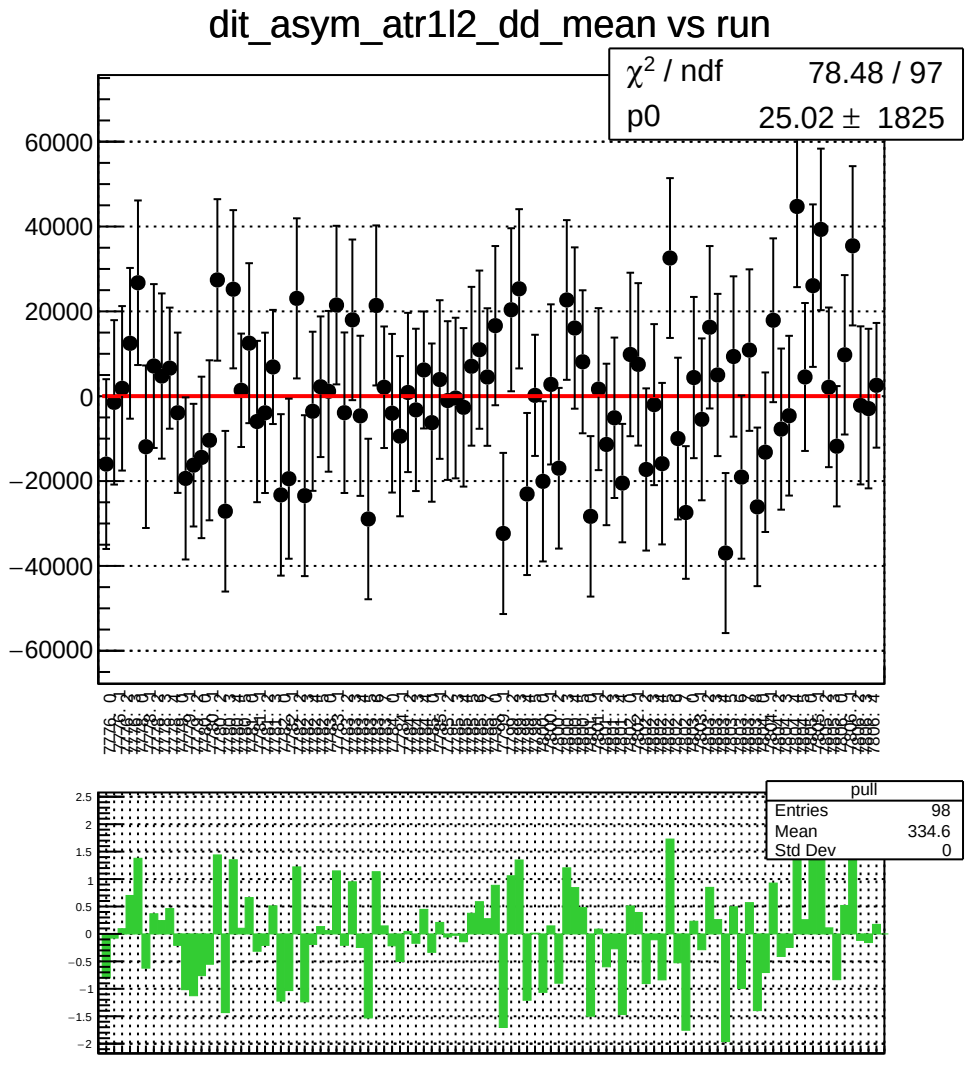

pull1D
Entries 98
Mean 0.007657
Std Dev 0.8968
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

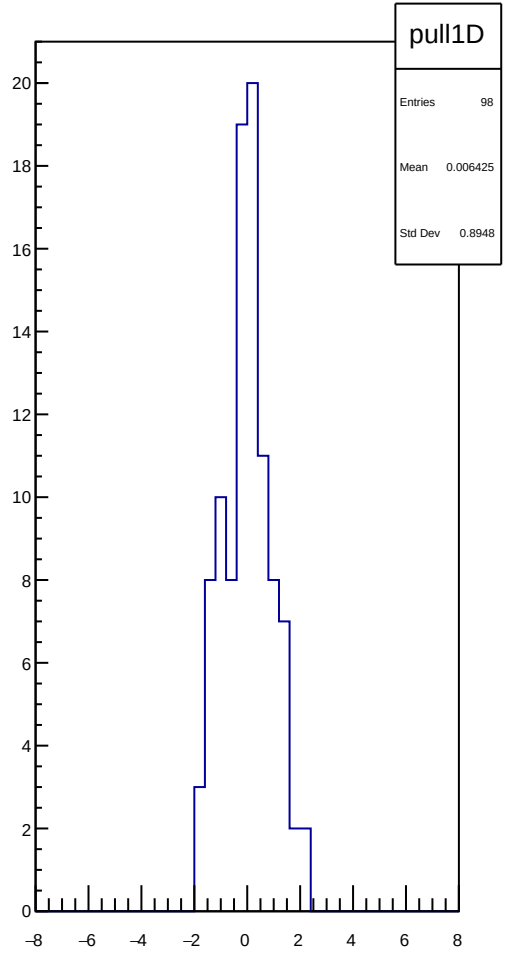

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 142.8 / 97
p0 1787 ± 1.282
1880
1860
1840
1820
1800
1780
1760
1740
1720

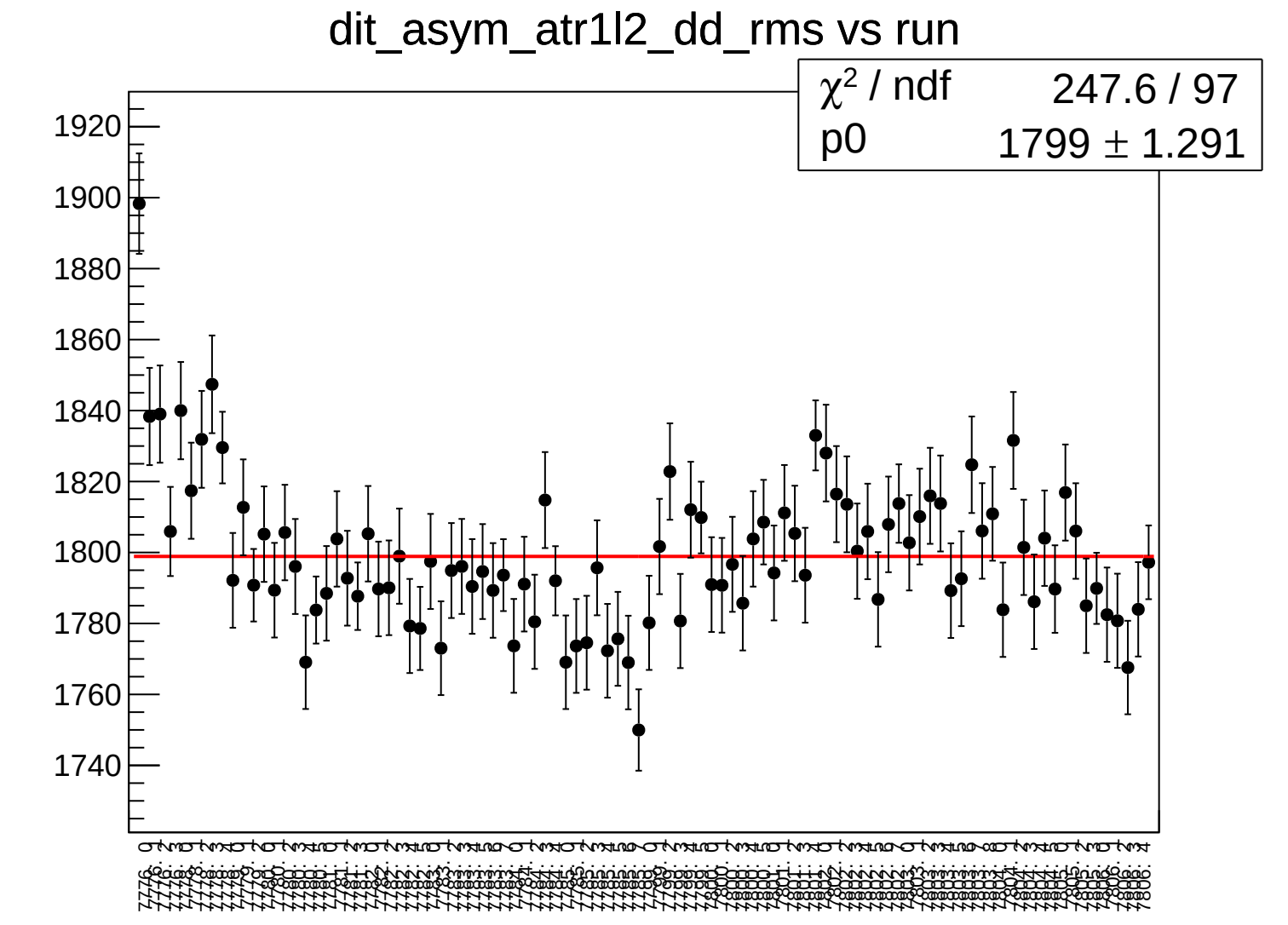

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.69 / 97
p0 −3244 ± 3725
pull
Entries 98
Mean 475.5
Std Dev 0

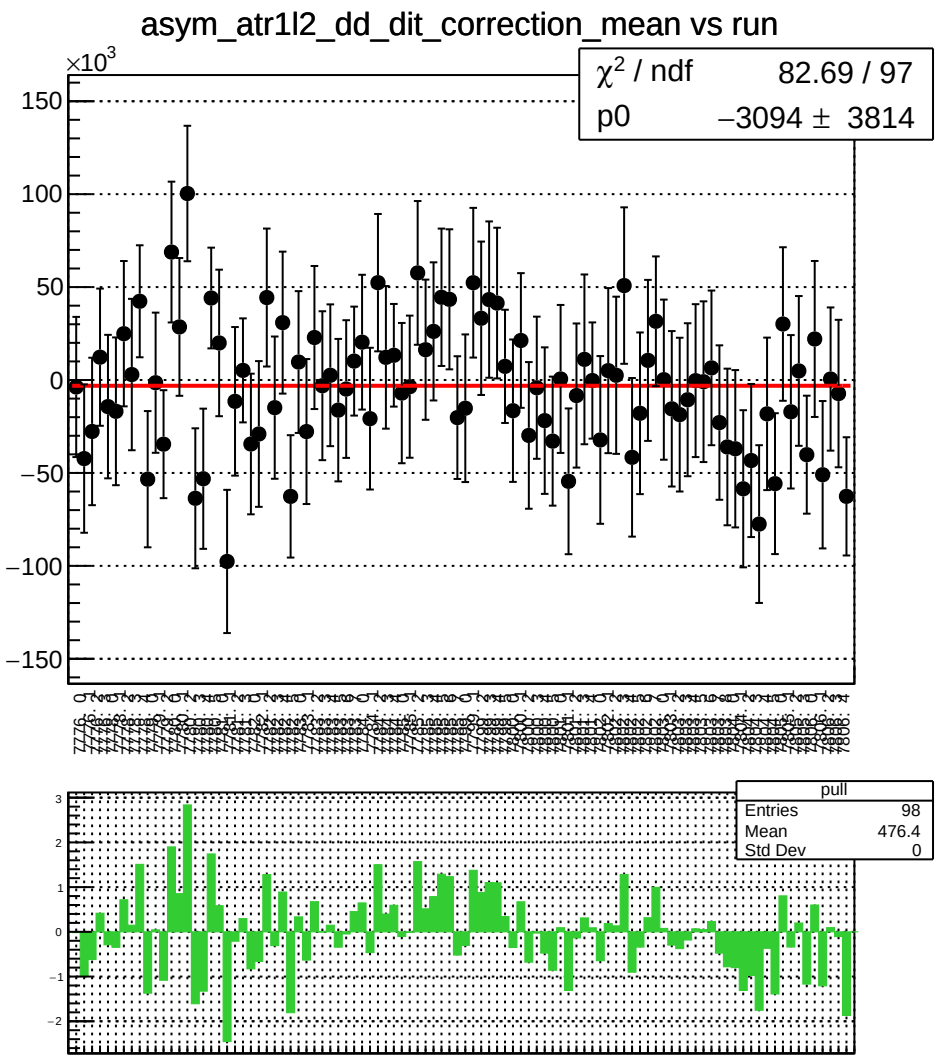

pull1D
Entries 98
Mean −0.01104
Std Dev 0.9185

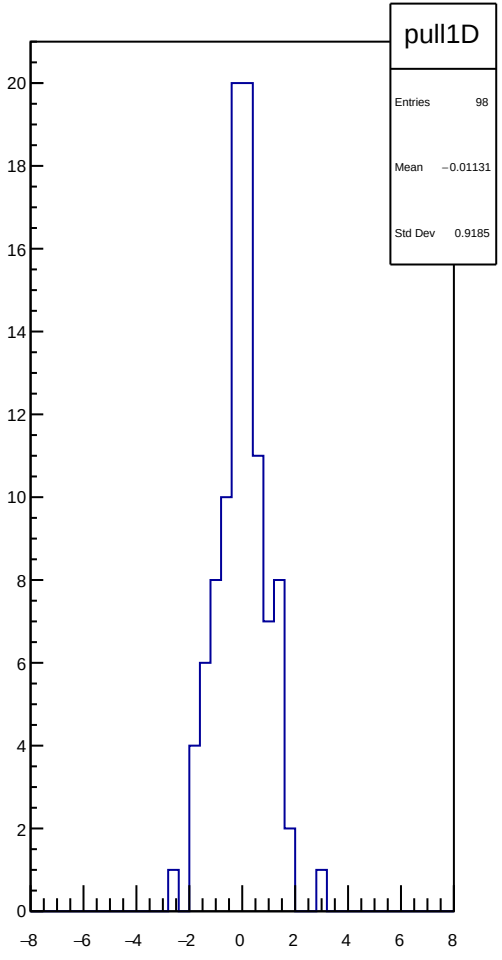

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4646 / 97
p0 3667 ± 2.634
4200
4000
3800
3600
3400
3200

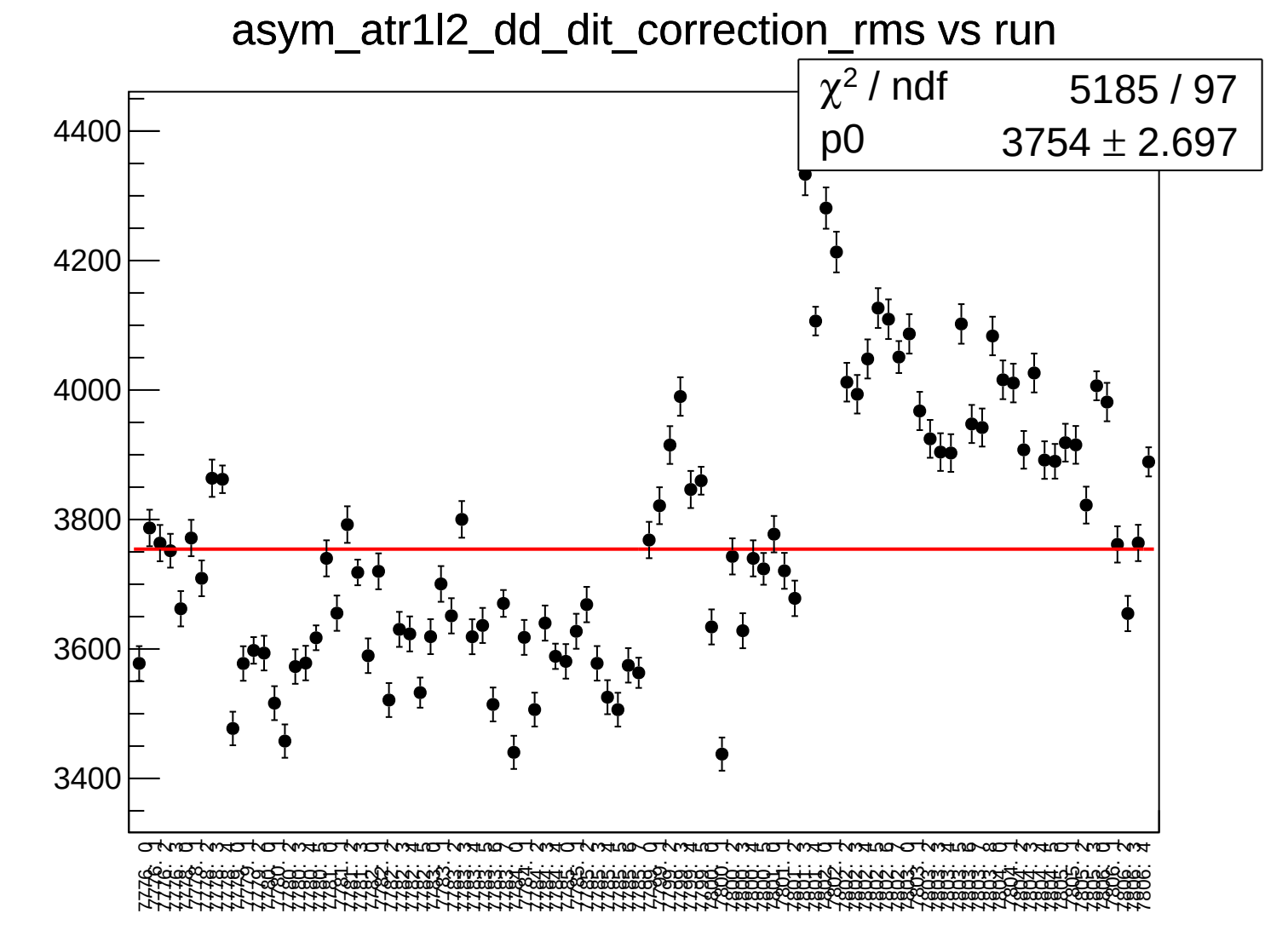

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 78.48 / 97
p0 25.02 ± 1825
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 334.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

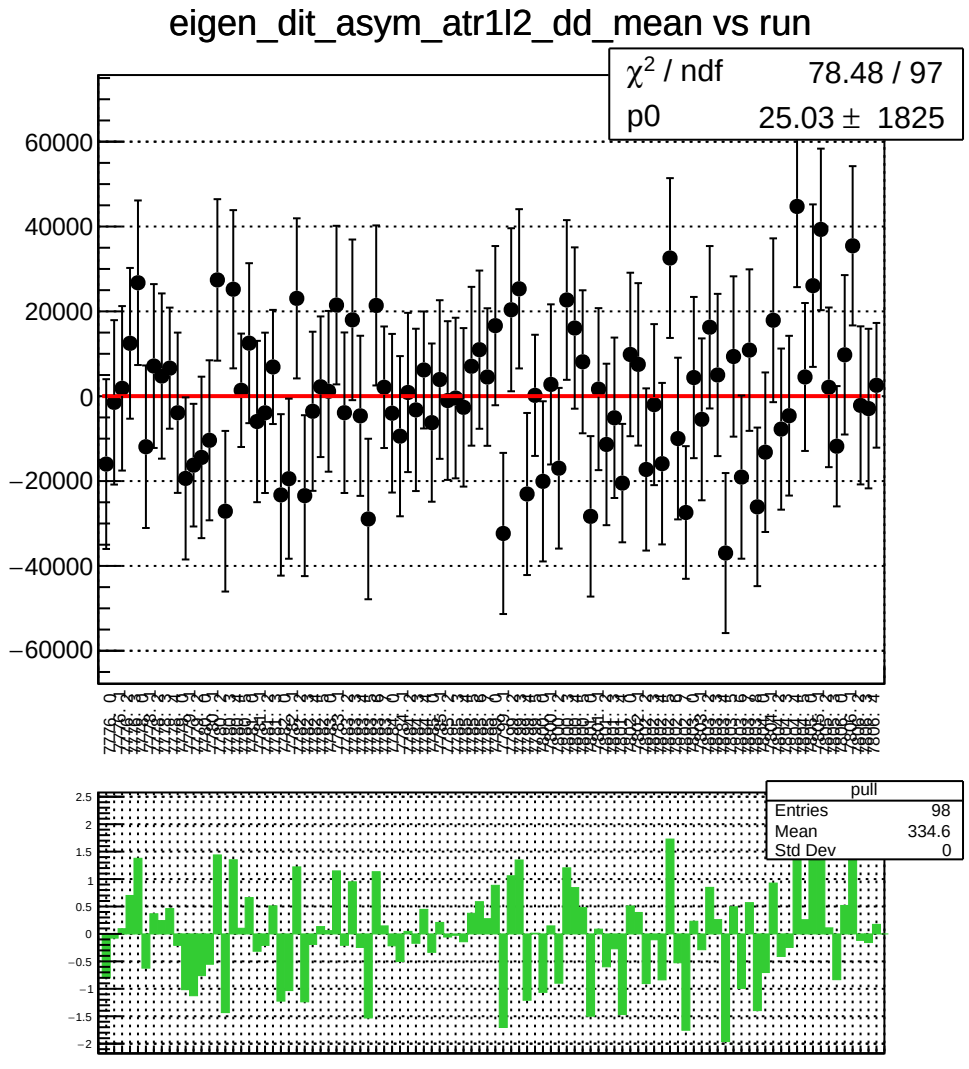

pull1D
Entries 98
Mean 0.006425
Std Dev 0.8948
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

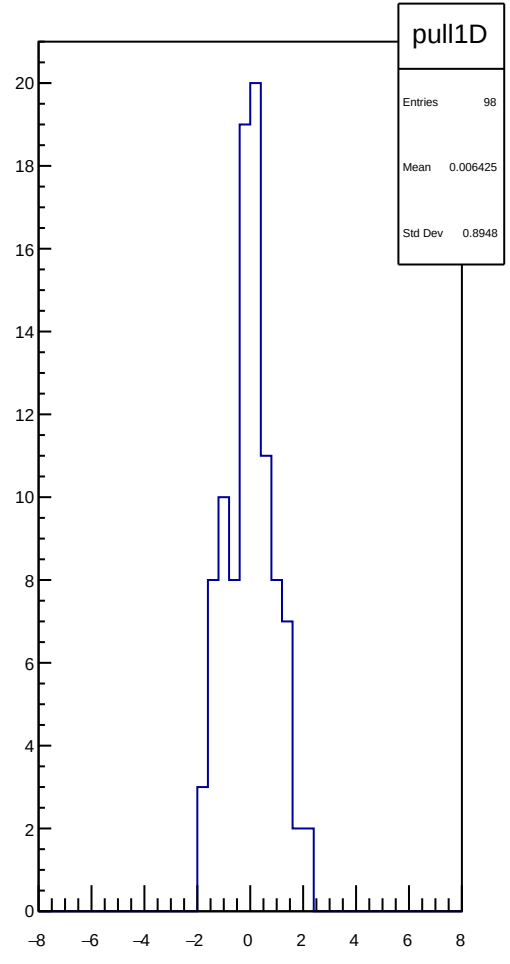

dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 247.6 / 97
p0 1799 ± 1.291
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

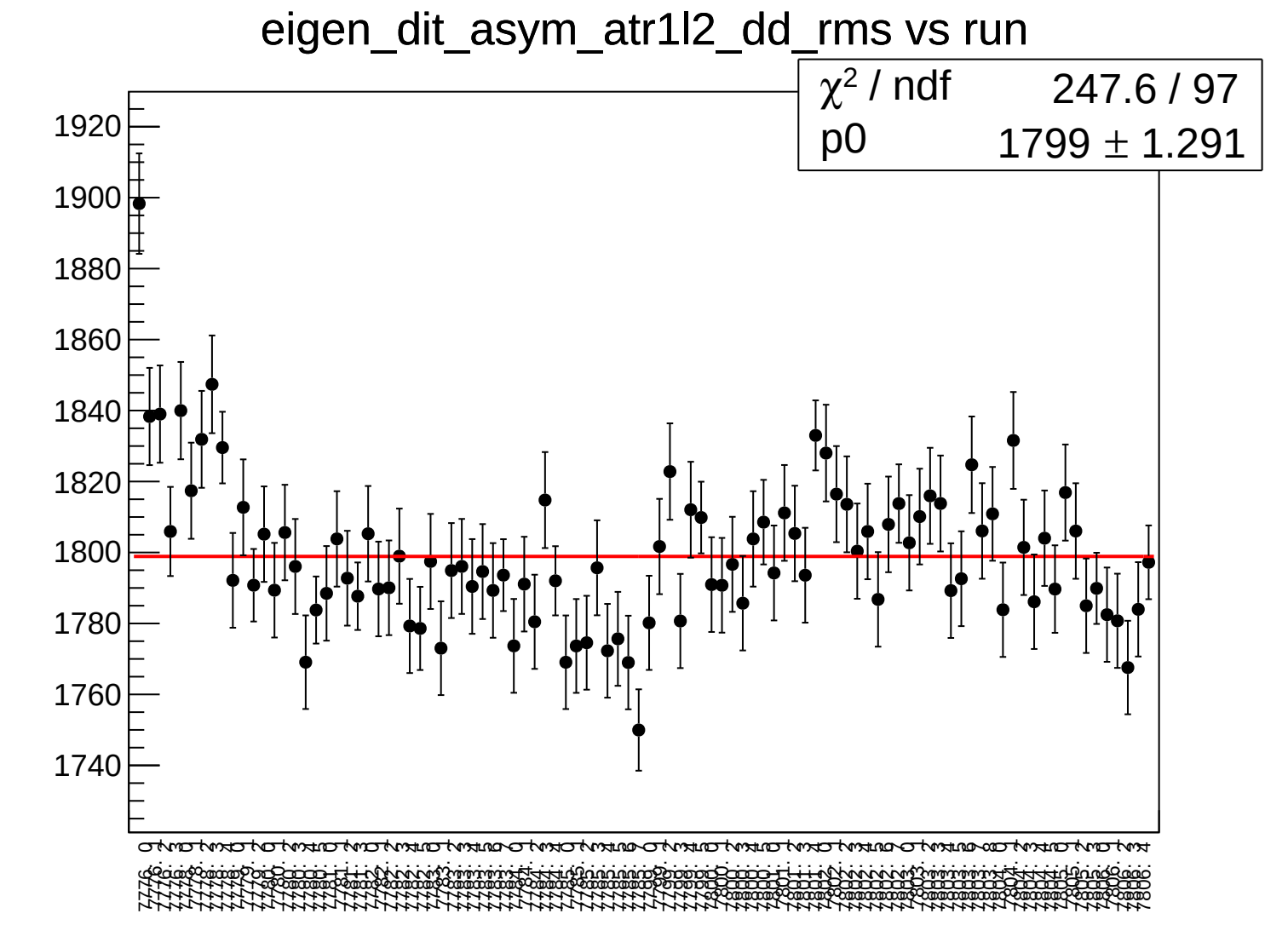

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.69 / 97
p0 −3094 ± 3814
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 476.4
Std Dev 0
3
2
1
0
−1
−2

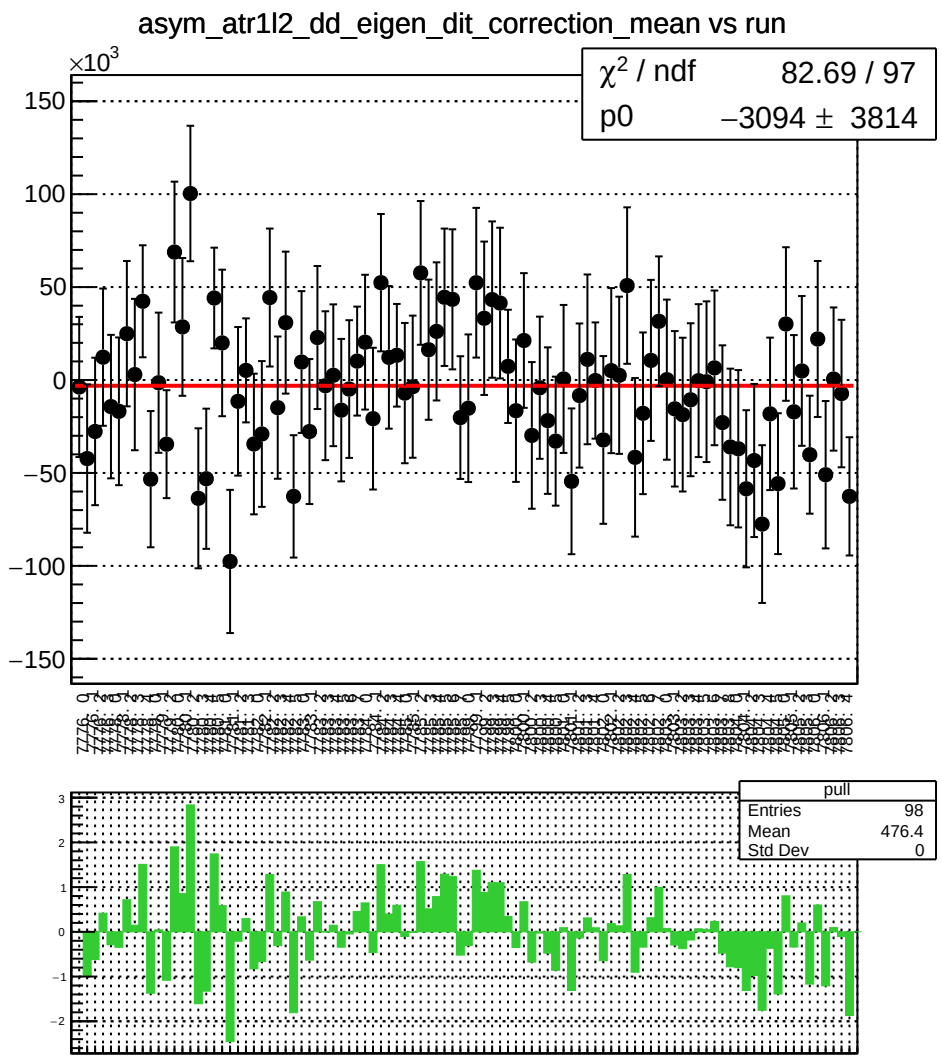

pull1D
Entries 98
Mean −0.01131
Std Dev 0.9185
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

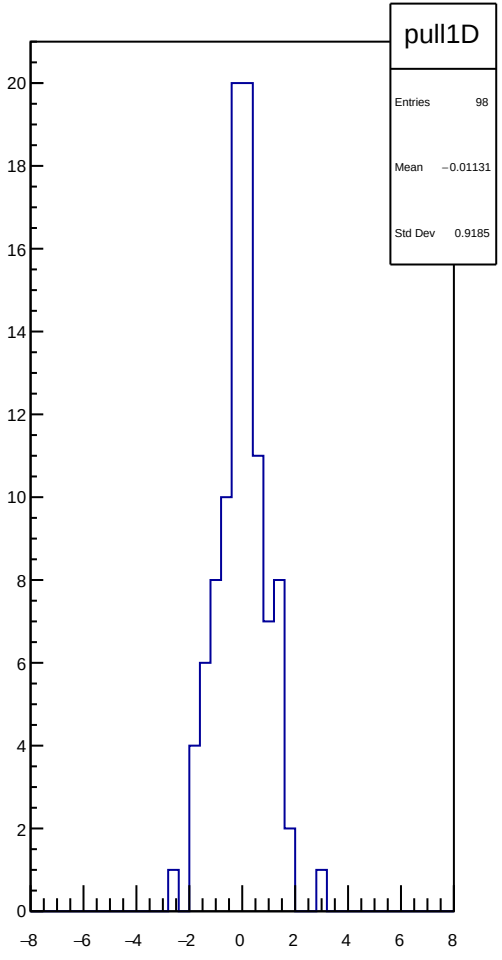

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 5185 / 97
p0 3754 ± 2.697
4400
4200
4000
3800
3600
3400

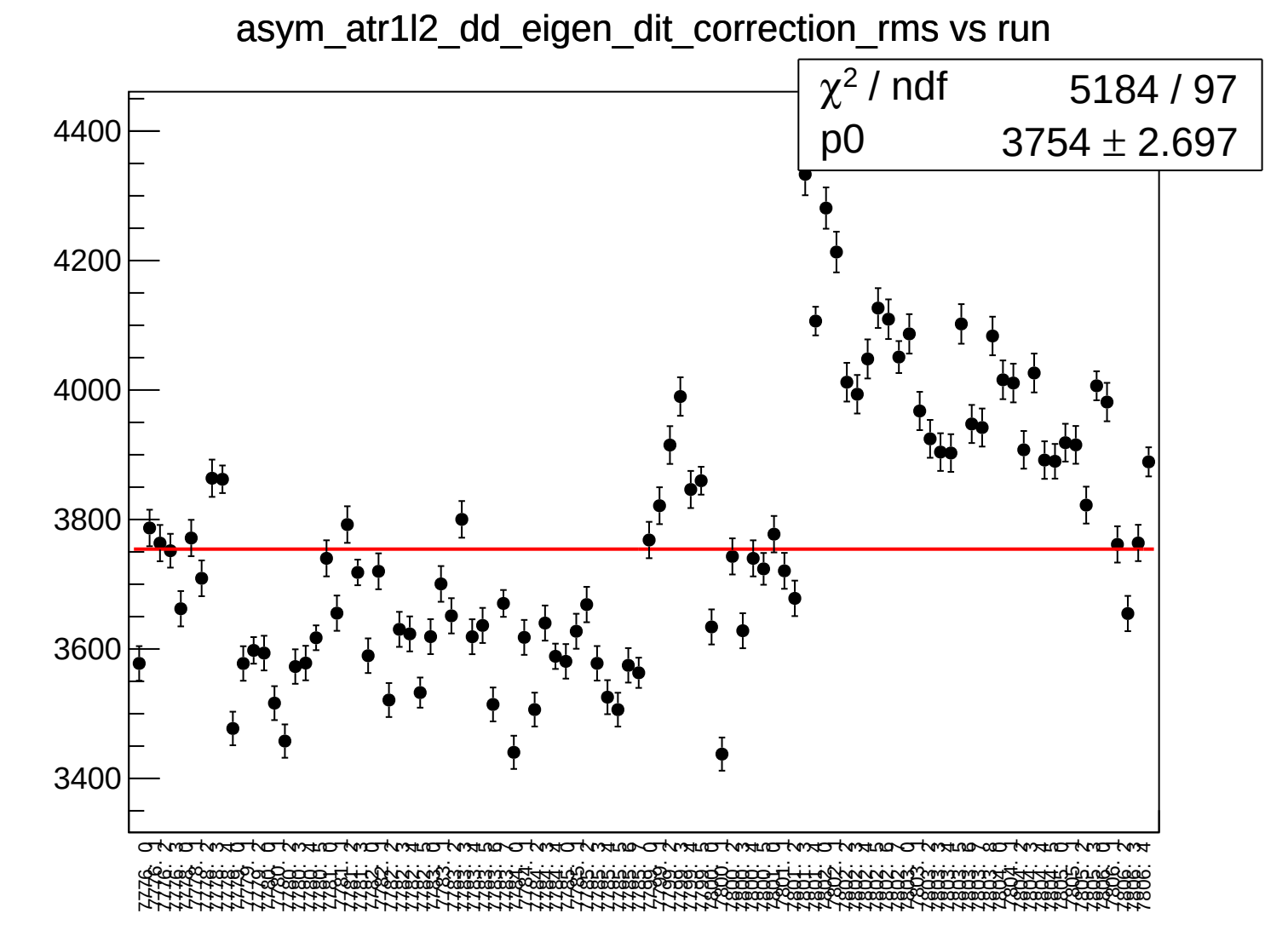

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 78.48 / 97
p0 25.03 ± 1825
pull
Entries 98
Mean 334.6
Std Dev 0

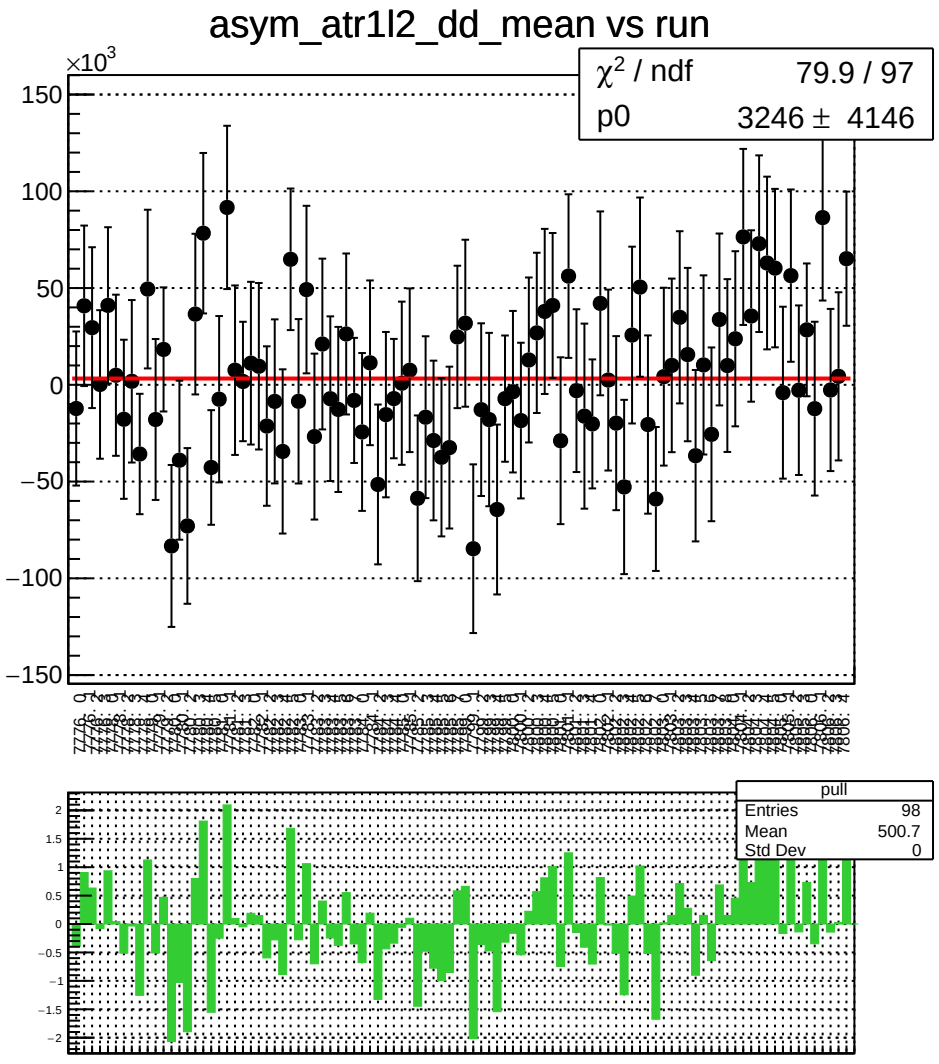

pull1D
Entries 98
Mean 0.006425
Std Dev 0.8948

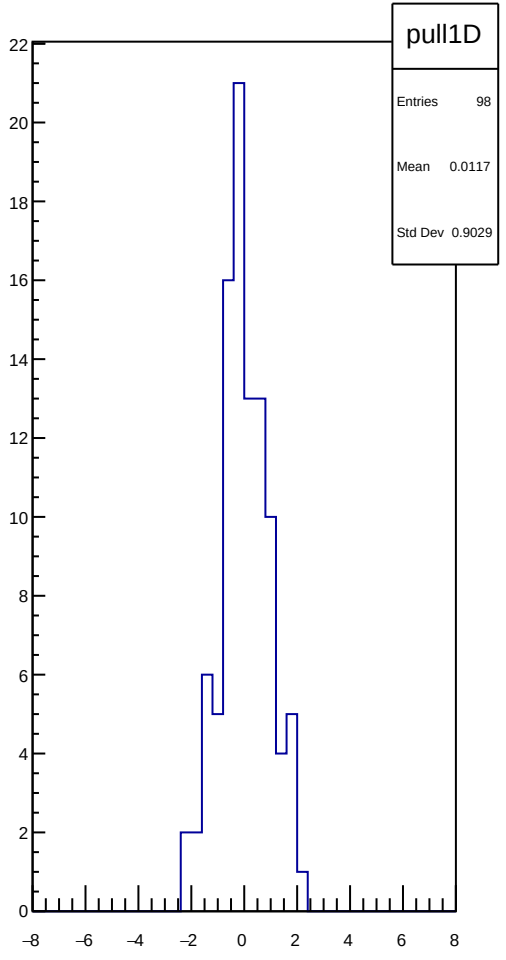

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 247.6 / 97
p0 1799 ± 1.291
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

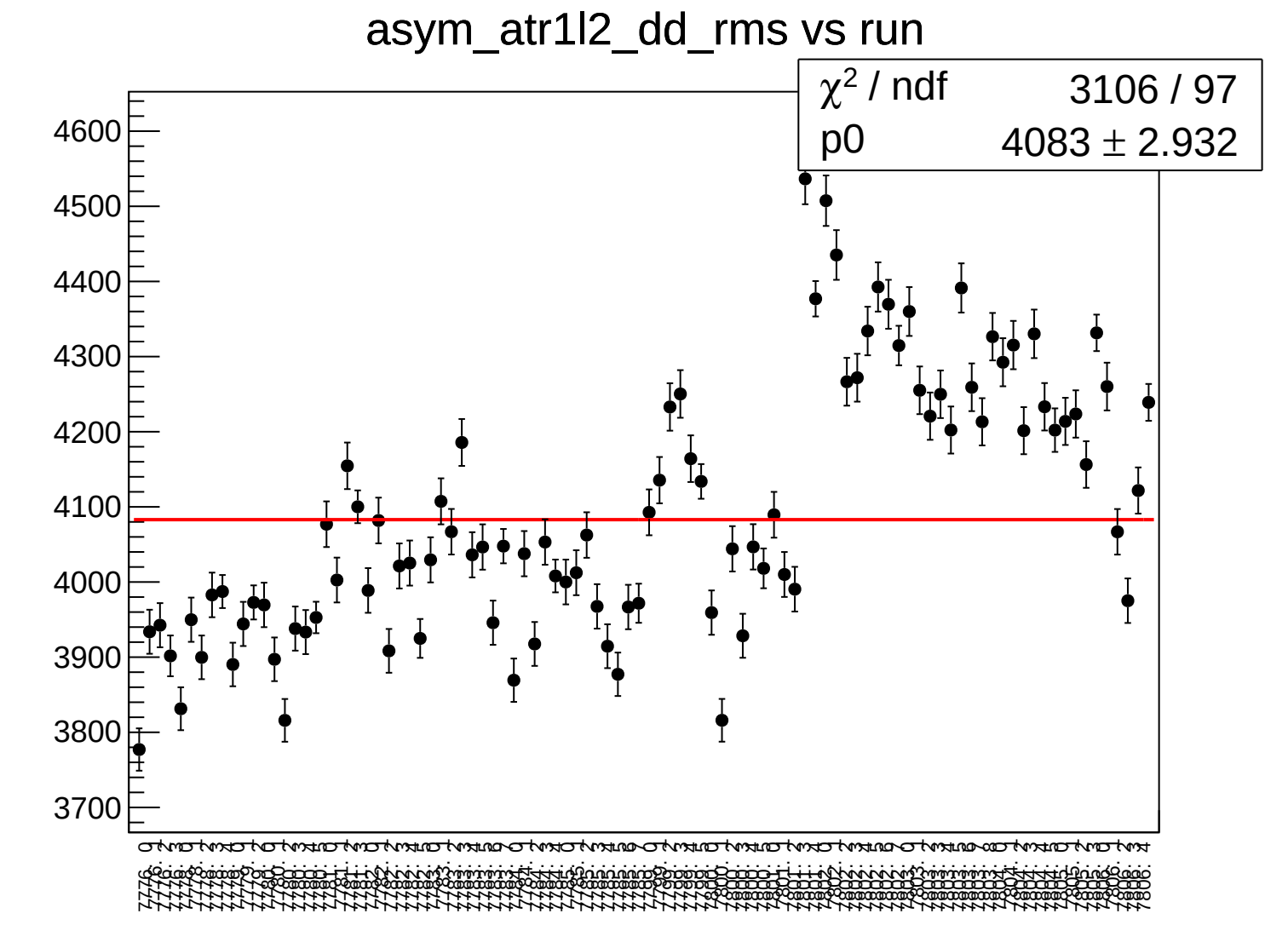

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.69 / 97
p0 −3094 ± 3814
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 476.4
Std Dev 0
3
2
1
0
−1
−2

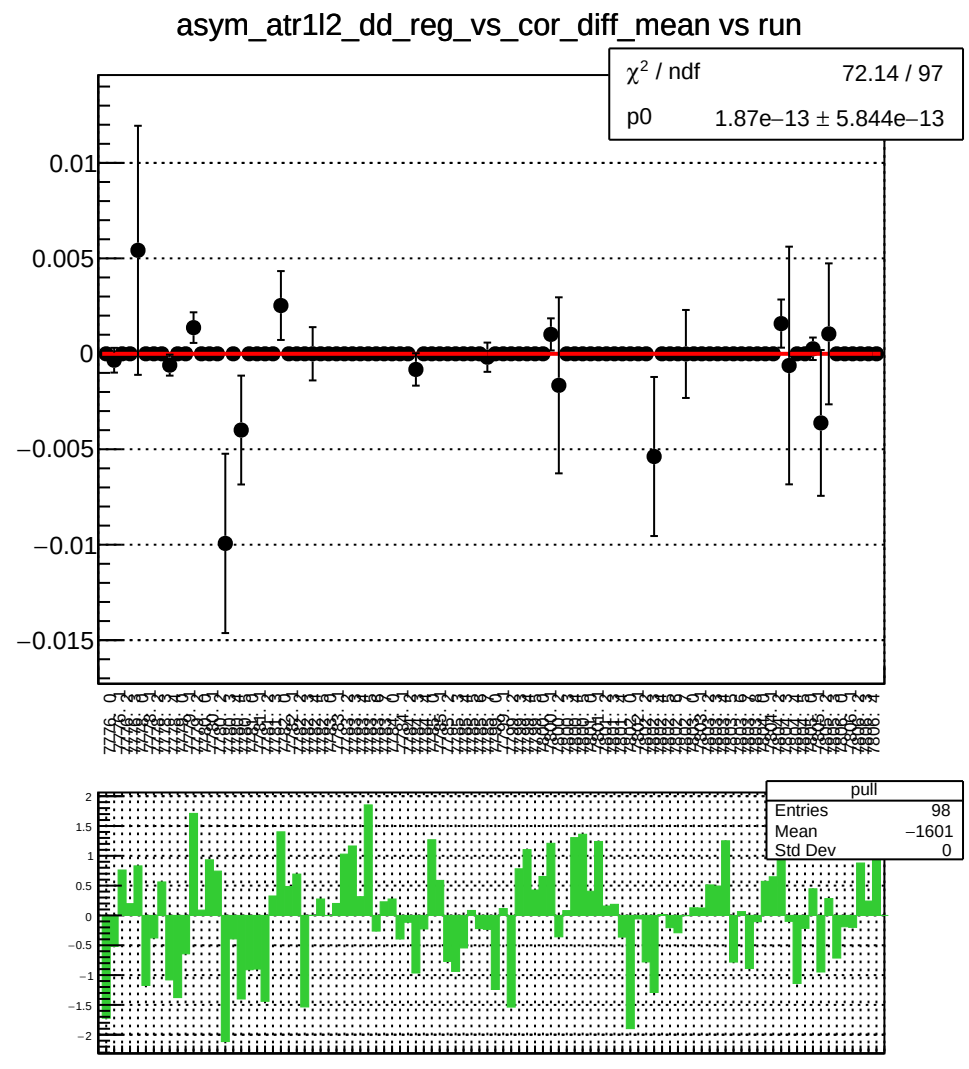

pull1D
Entries 98
Mean −0.01131
Std Dev 0.9185
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

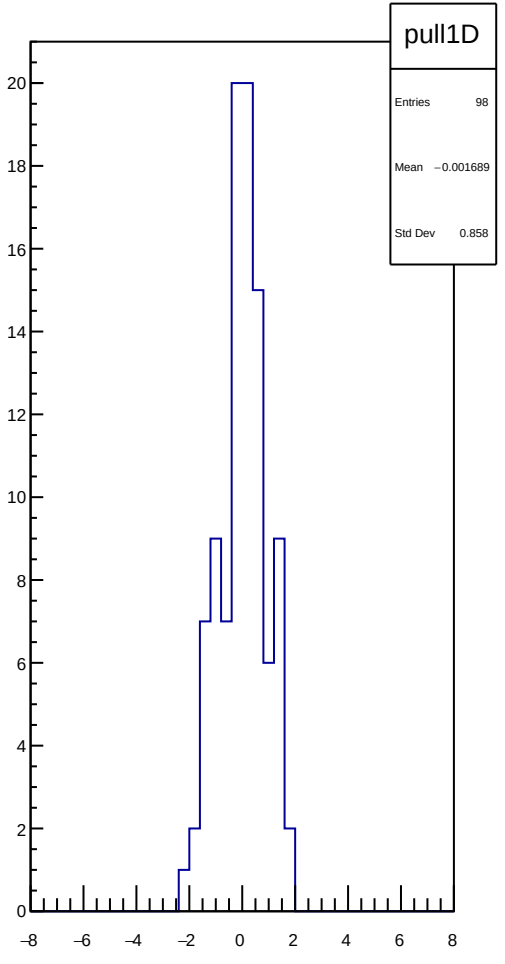

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5184 / 97
p0 3754 ± 2.697
4400
4200
4000
3800
3600
3400

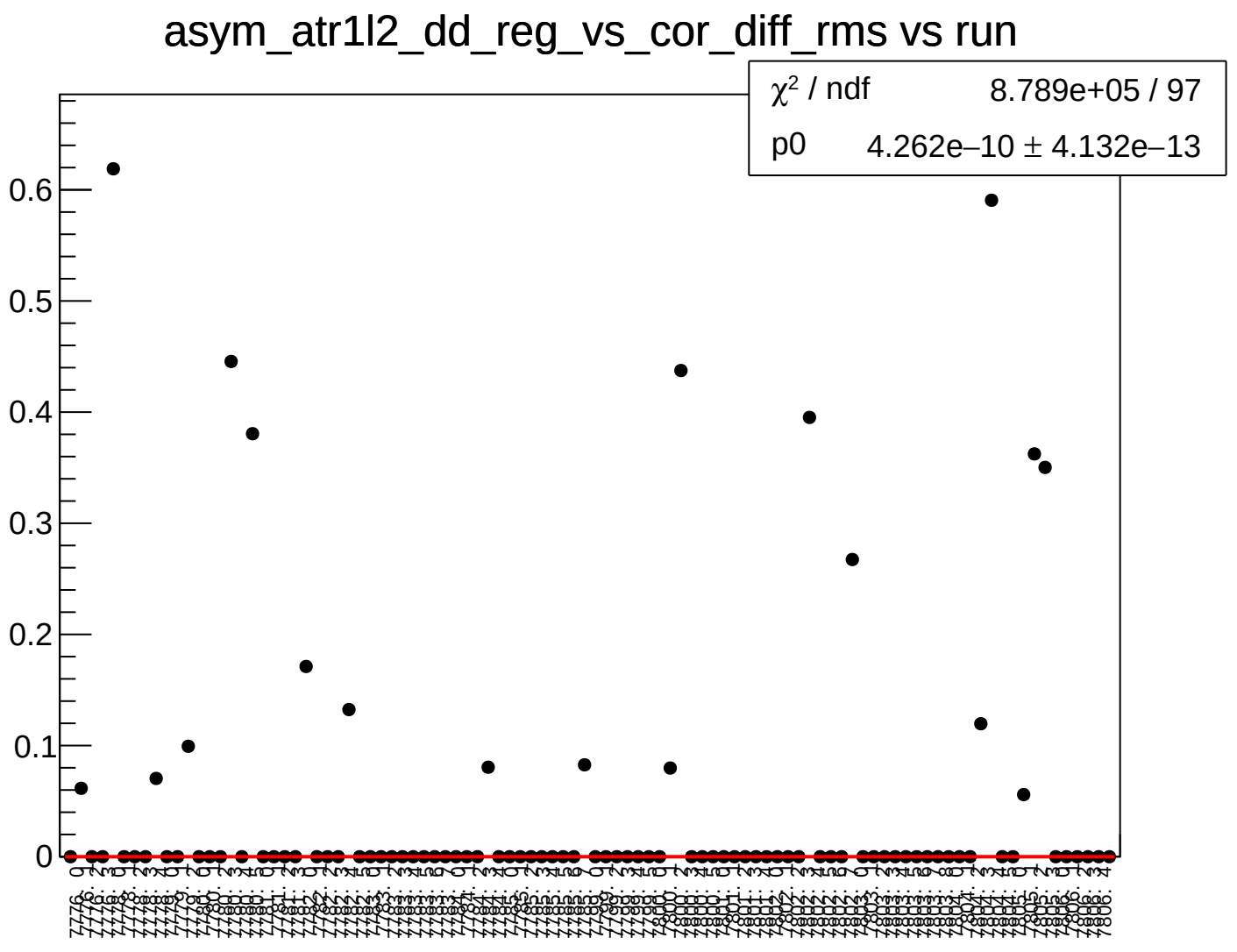

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 79.9 / 97
p0 3246 ± 4146
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 500.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

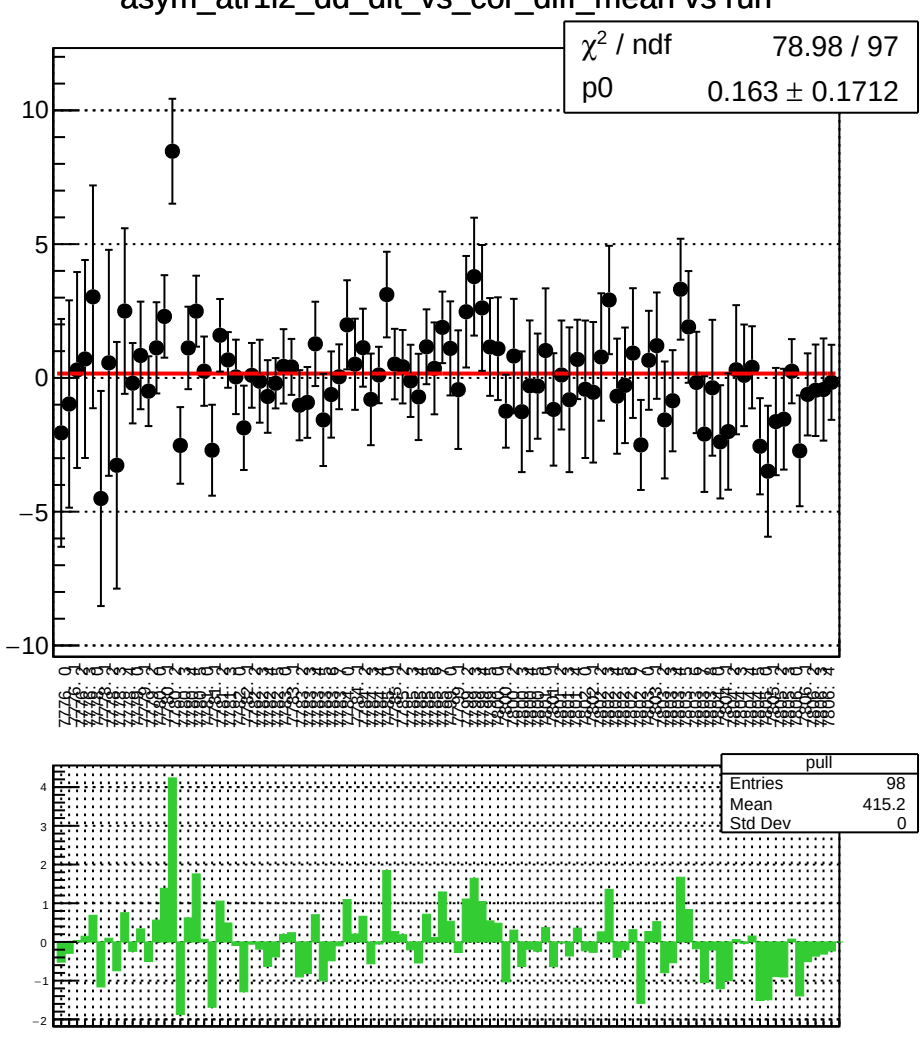

pull1D
Entries 98
Mean 0.0117
Std Dev 0.9029
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

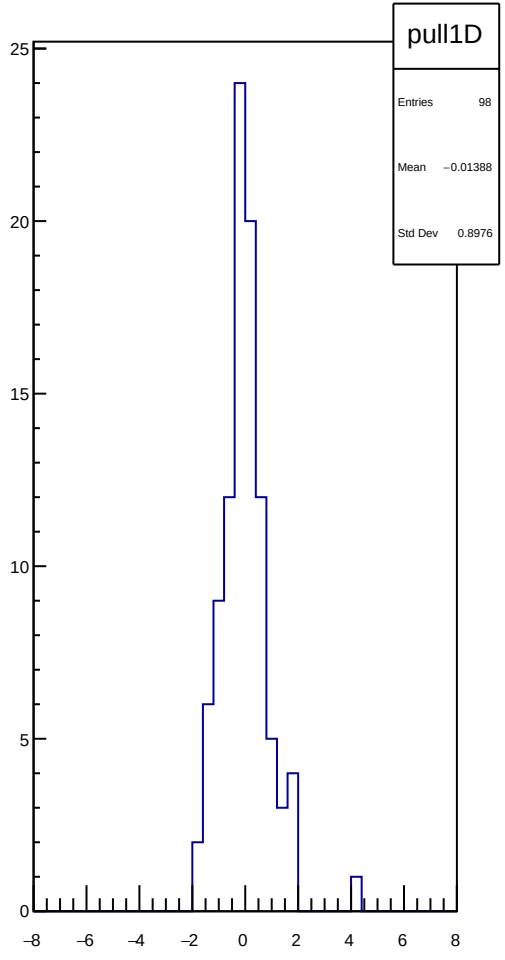

asym_atr1l2_dd_rms vs run
χ² / ndf 3106 / 97
p0 4083 ± 2.932
4600
4500
4400
4300
4200
4100
4000
3900
3800
3700

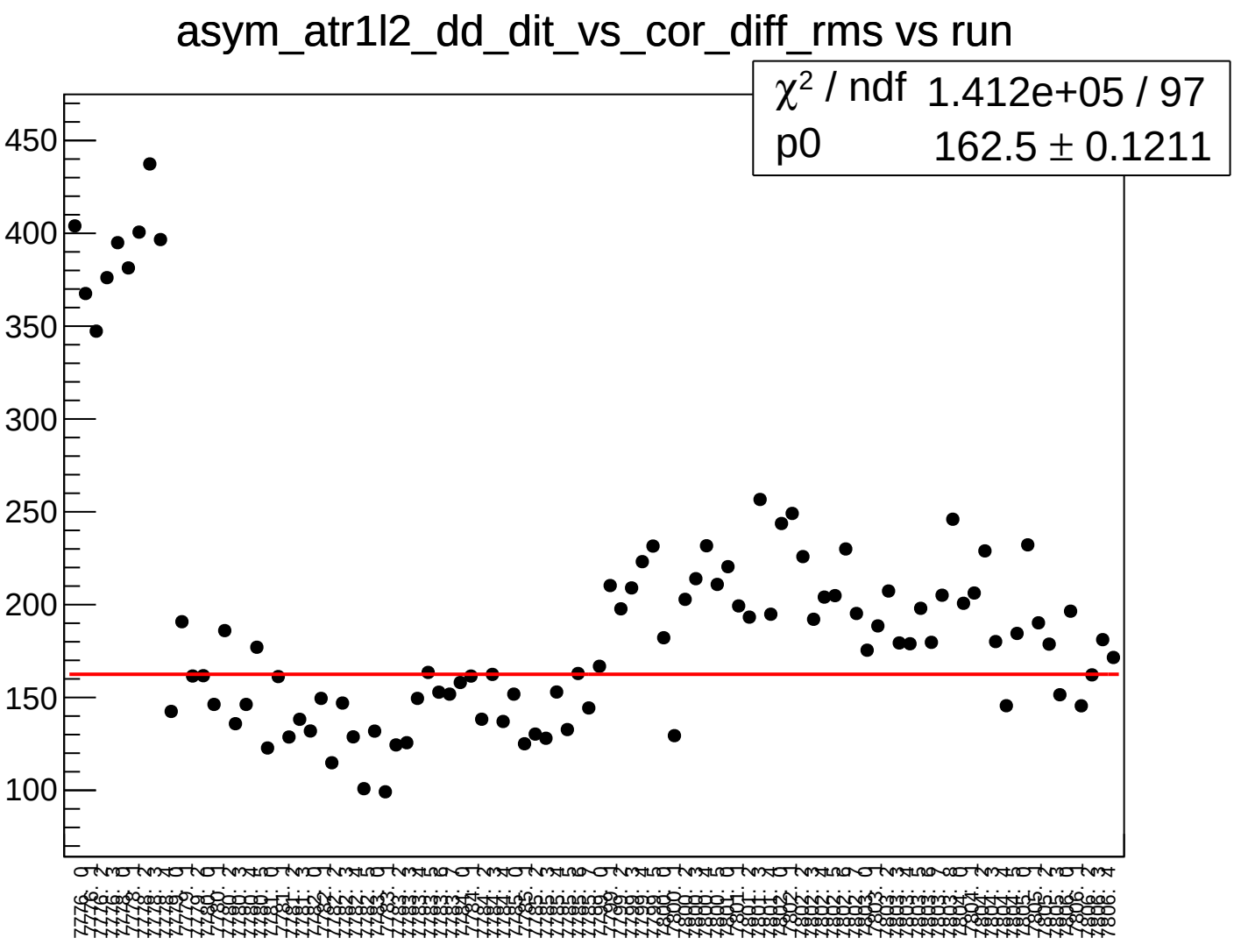

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.14 / 97
p0 1.87e−13 ± 5.844e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 98
Mean −1601
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

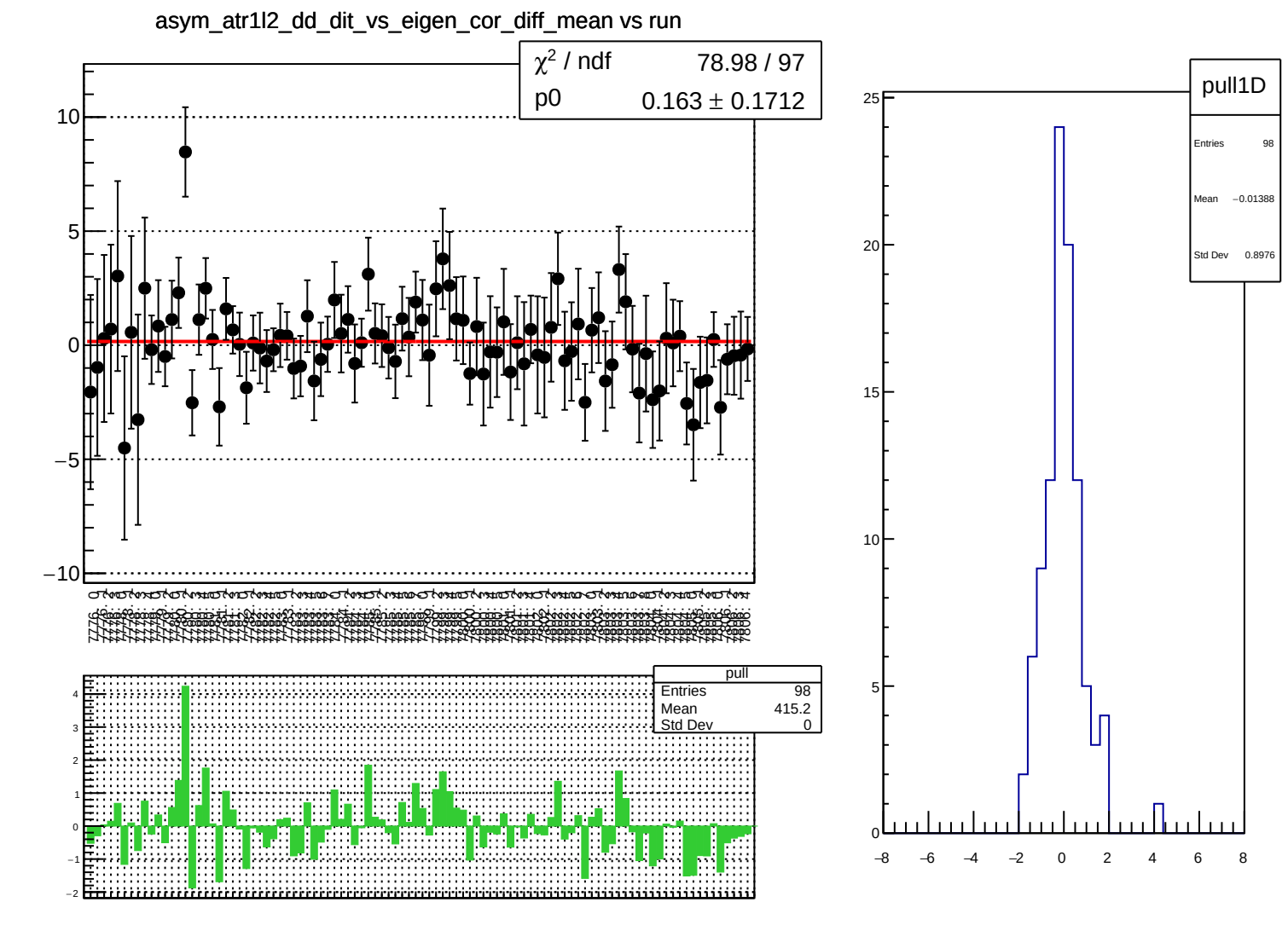

pull1D
Entries 98
Mean −0.001689
Std Dev 0.858
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

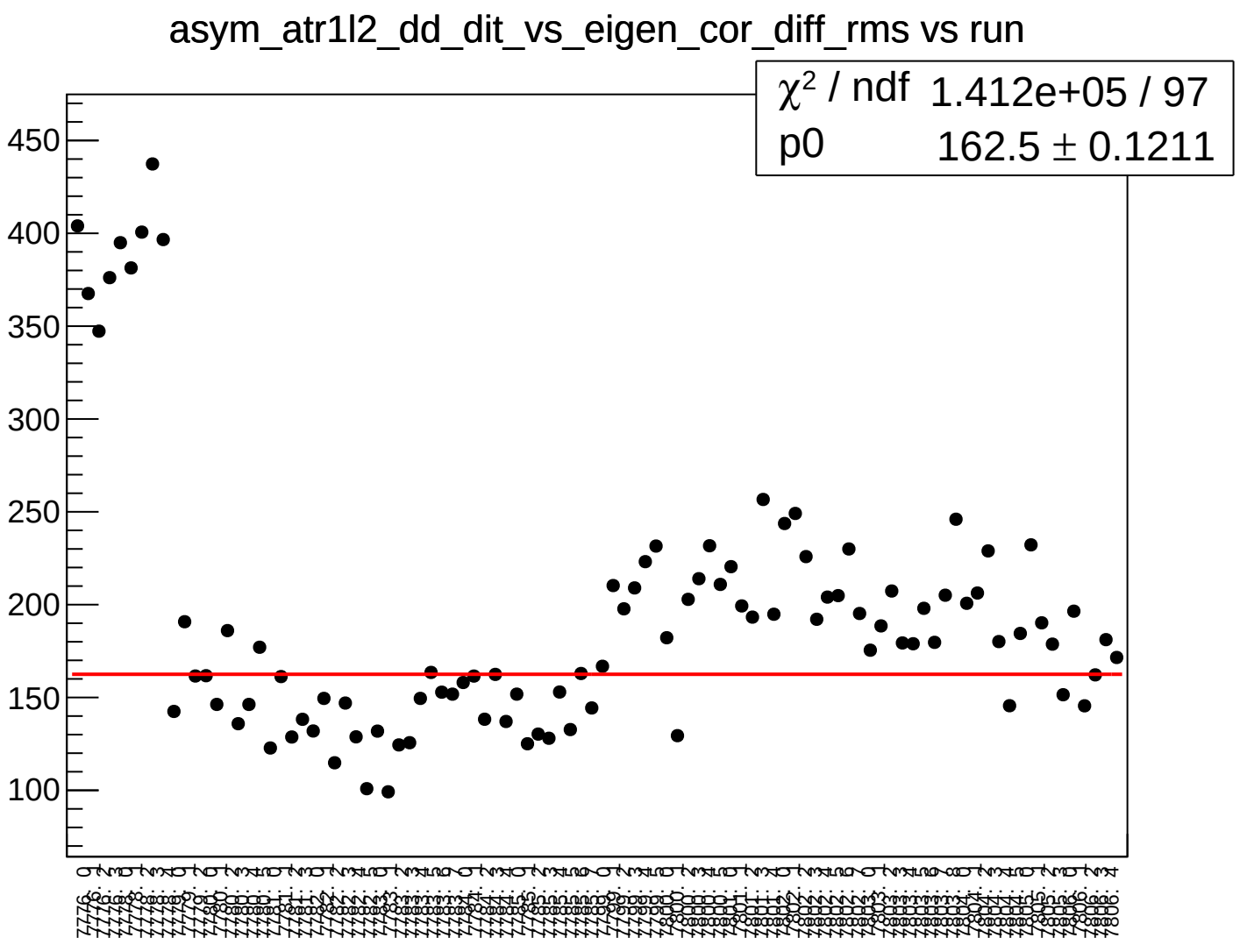

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.789e+05 / 97
p0 4.262e−10 ± 4.132e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

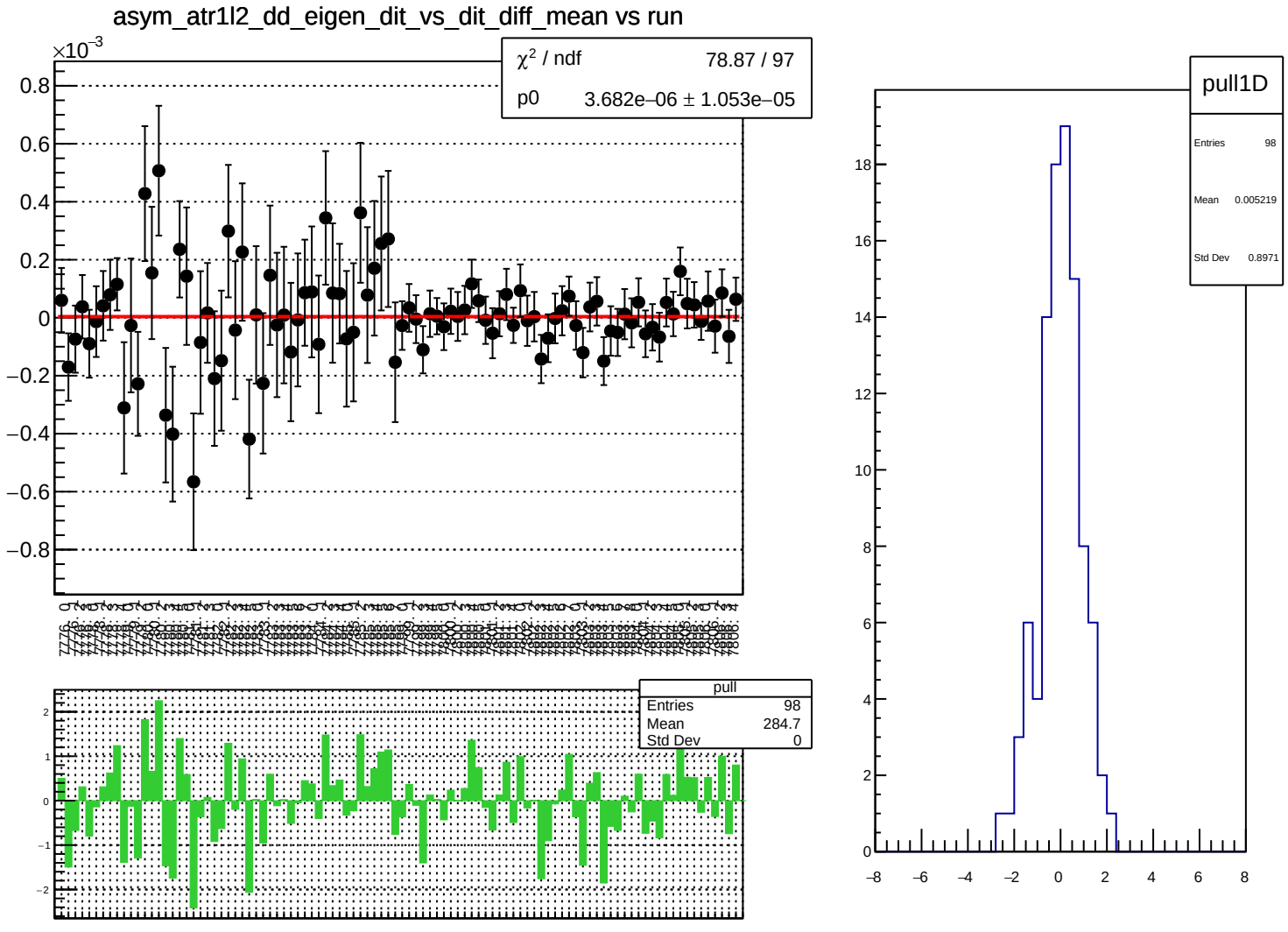

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.98 / 97
p0 0.163 ± 0.1712
pull
Entries 98
Mean 415.2
Std Dev 0

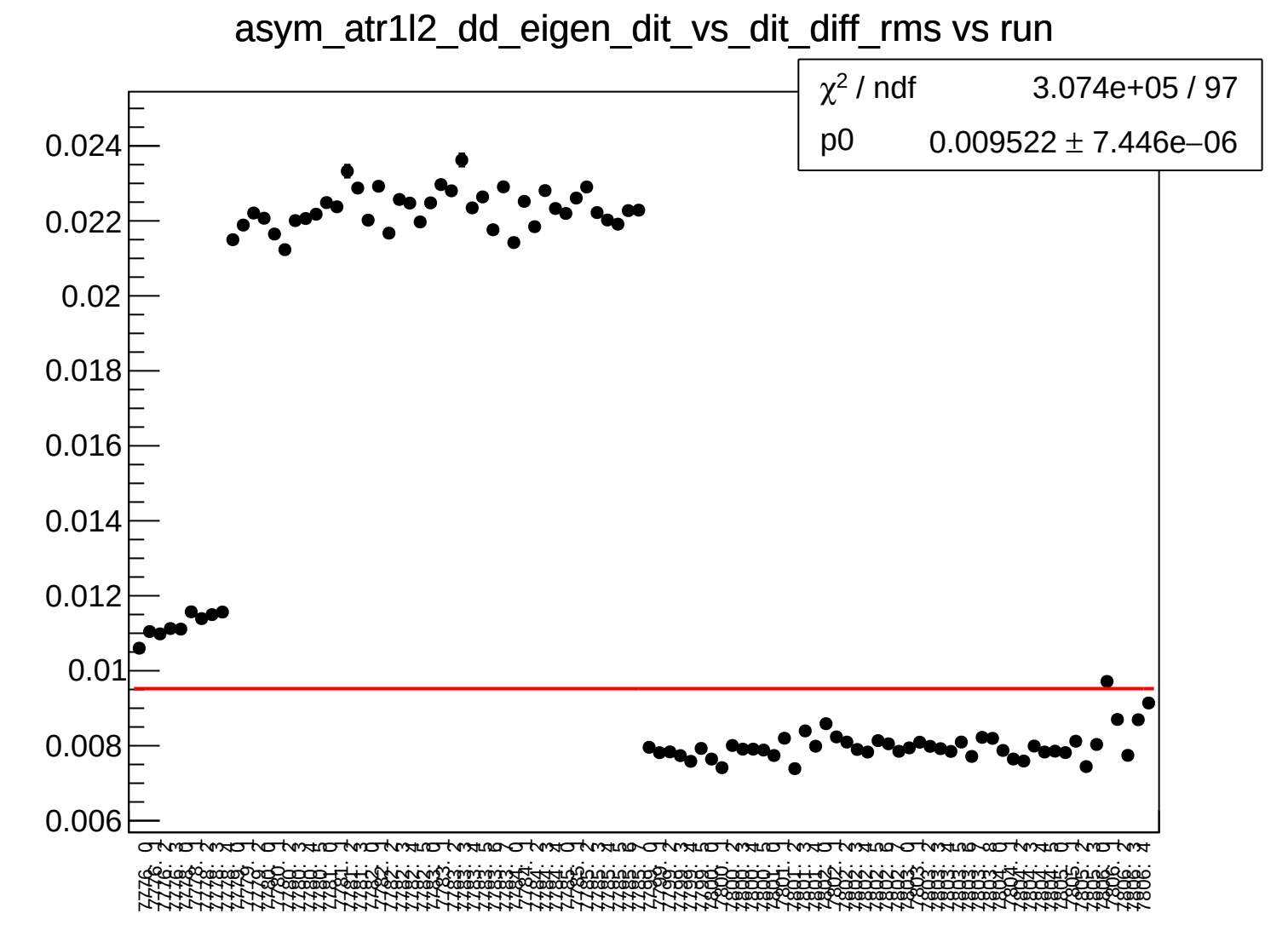

pull1D
Entries 98
Mean −0.01388
Std Dev 0.8976

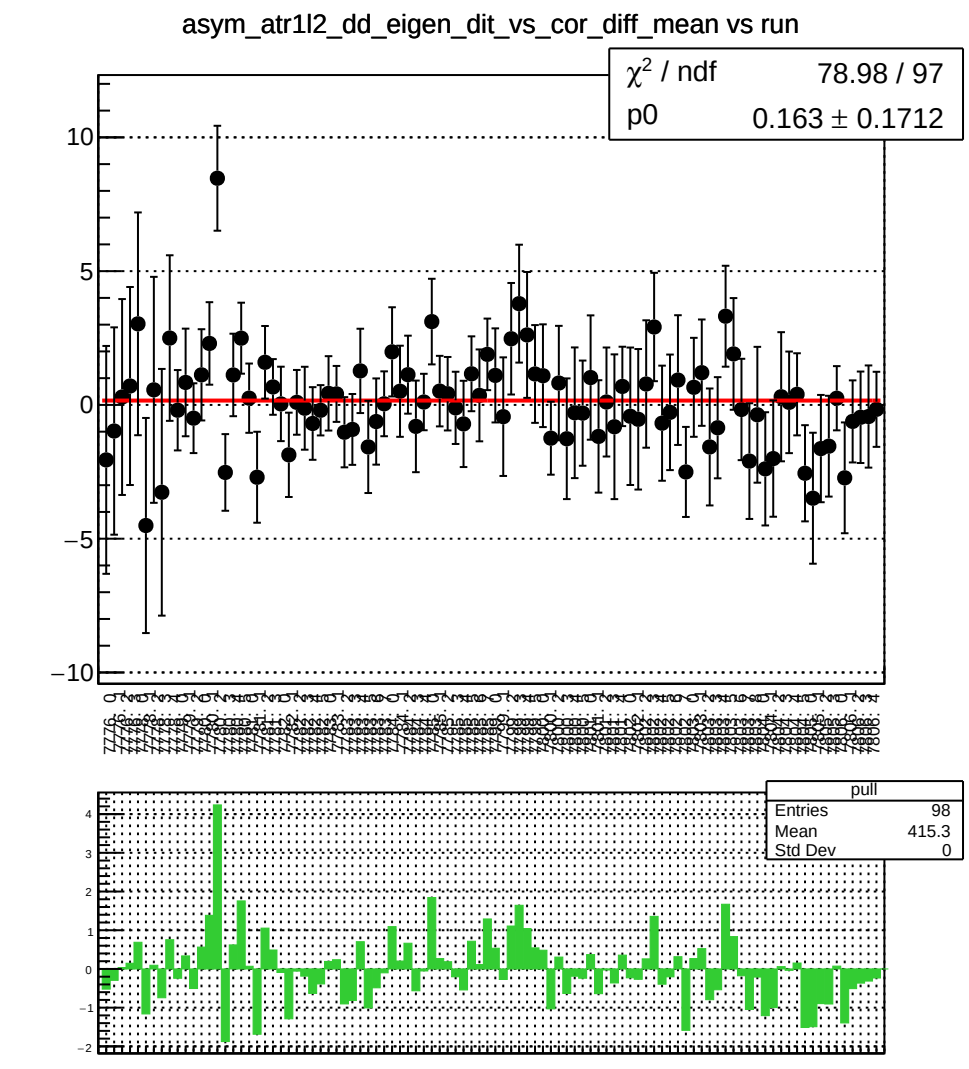

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.412e+05 / 97
p0 162.5 ± 0.1211
450
400
350
300
250
200
150
100

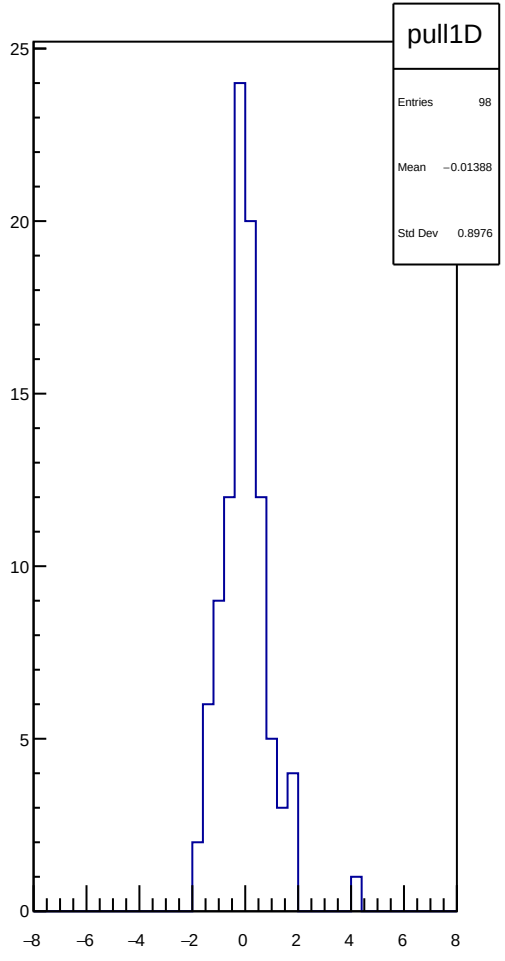

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.98 / 97
p0 0.163 ± 0.1712
pull
Entries 98
Mean 415.2
Std Dev 0
pull1D
Entries 98
Mean −0.01388
Std Dev 0.8976

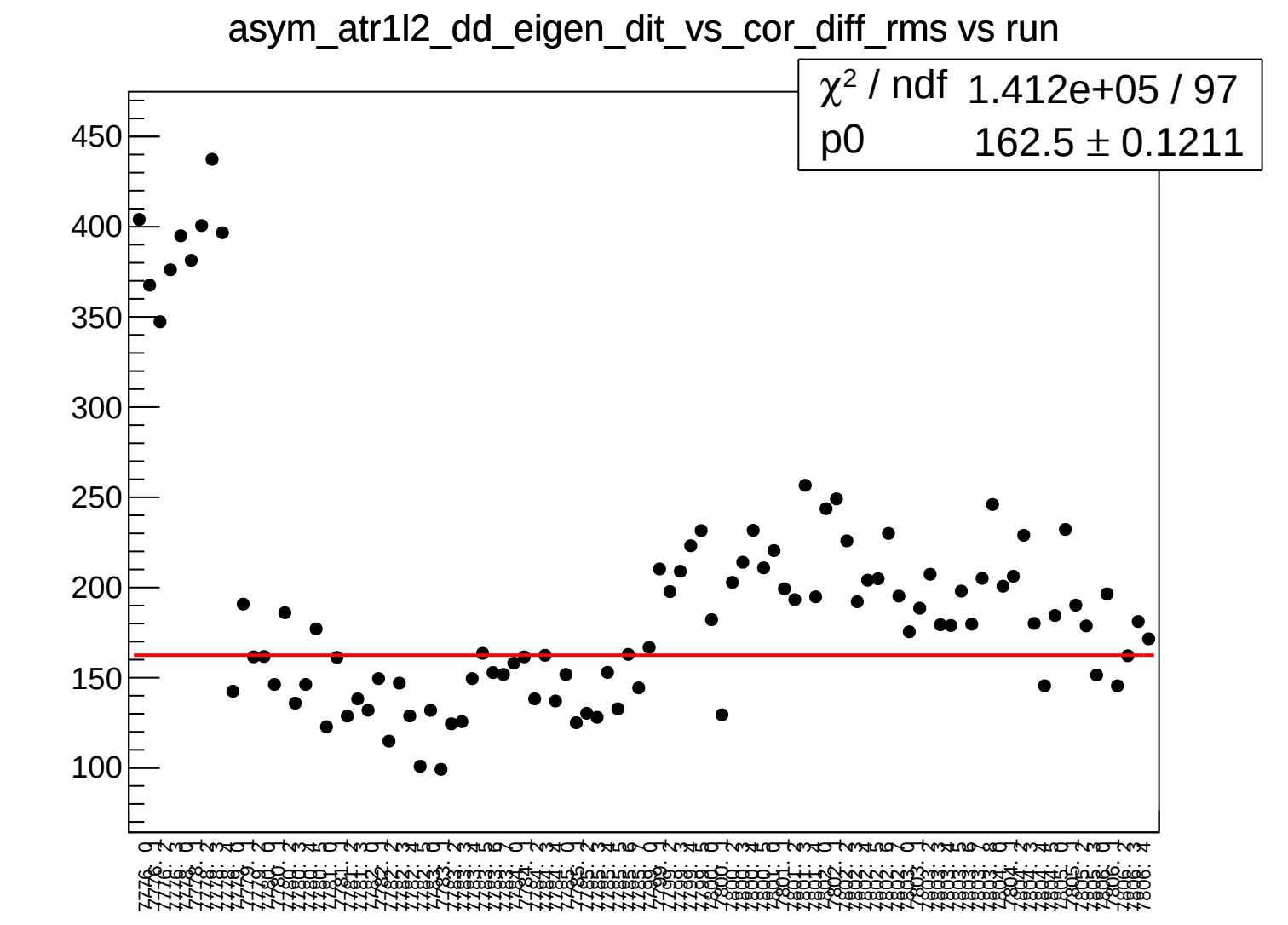

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 97
p0 162.5 ± 0.1211
450
400
350
300
250
200
150
100

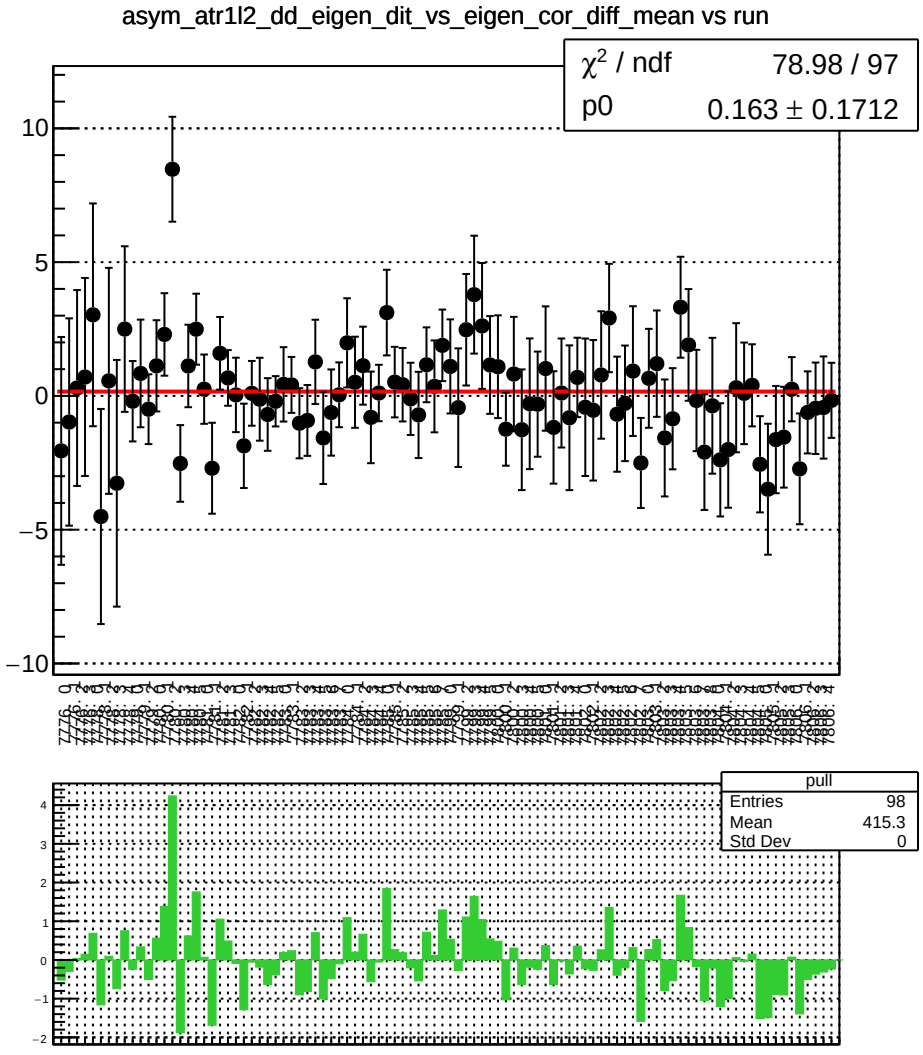

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.87 / 97
p0 3.682e−06 ± 1.053e−05
pull
Entries 98
Mean 284.7
Std Dev 0
pull1D
Entries 98
Mean 0.005219
Std Dev 0.8971

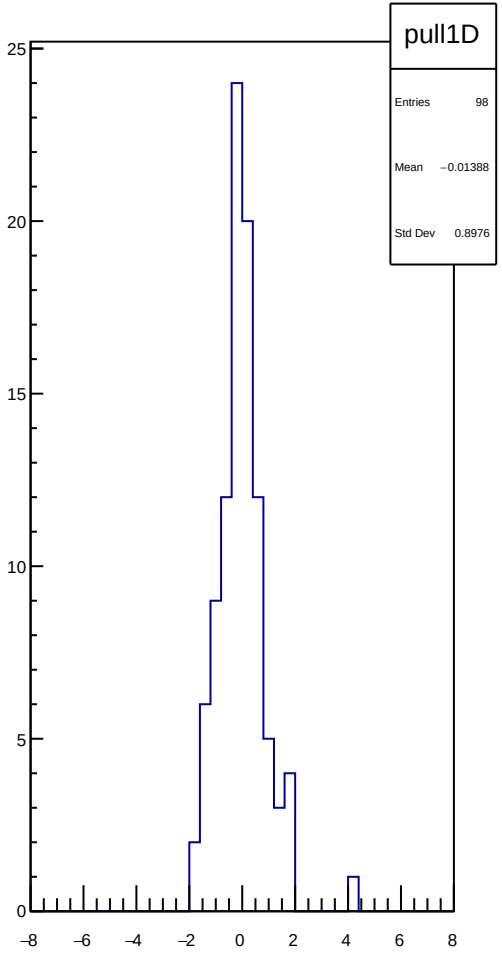

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.074e+05 / 97
p0 0.009522 ± 7.446e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

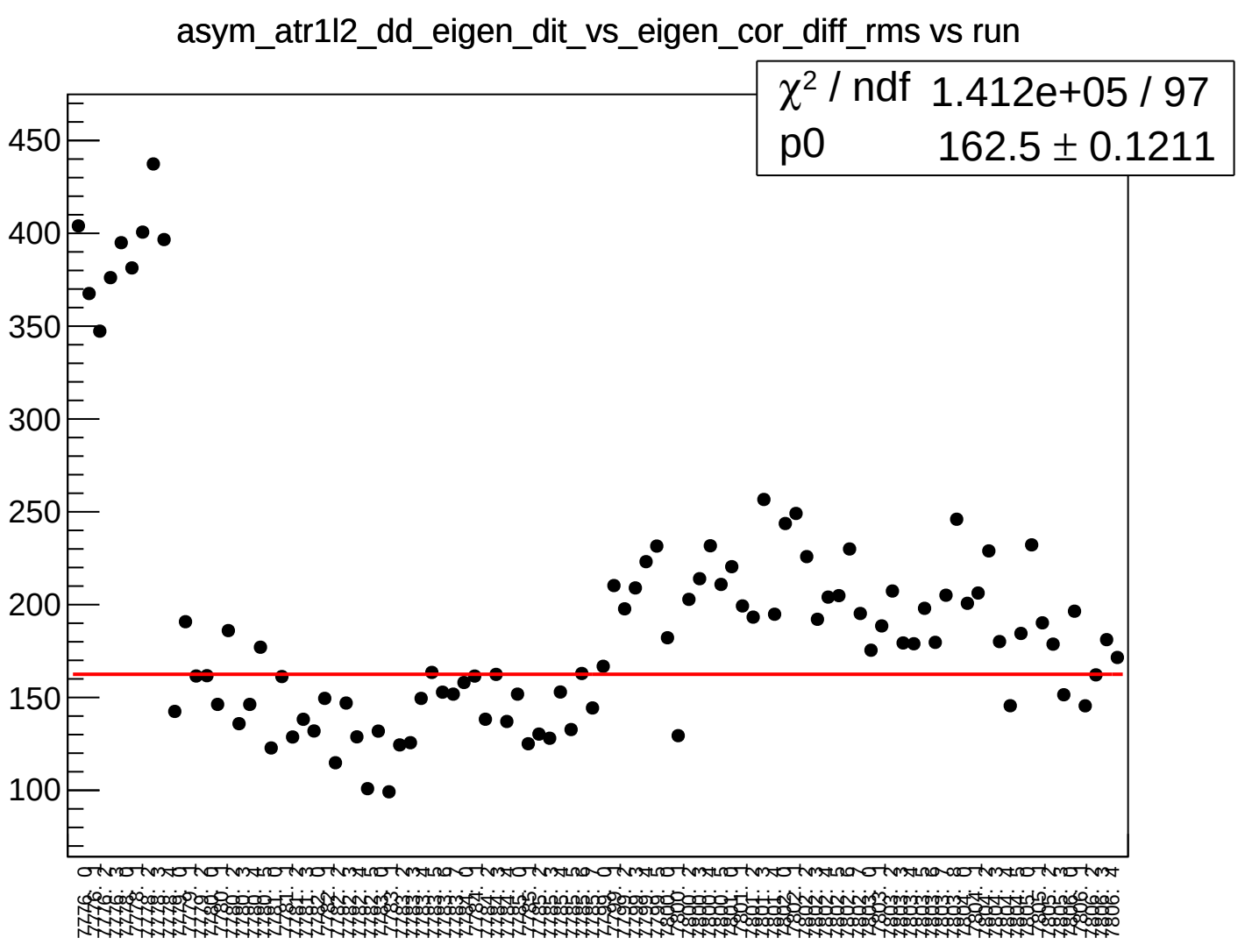

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.98 / 97
p0 0.163 ± 0.1712
pull
Entries 98
Mean 415.3
Std Dev 0

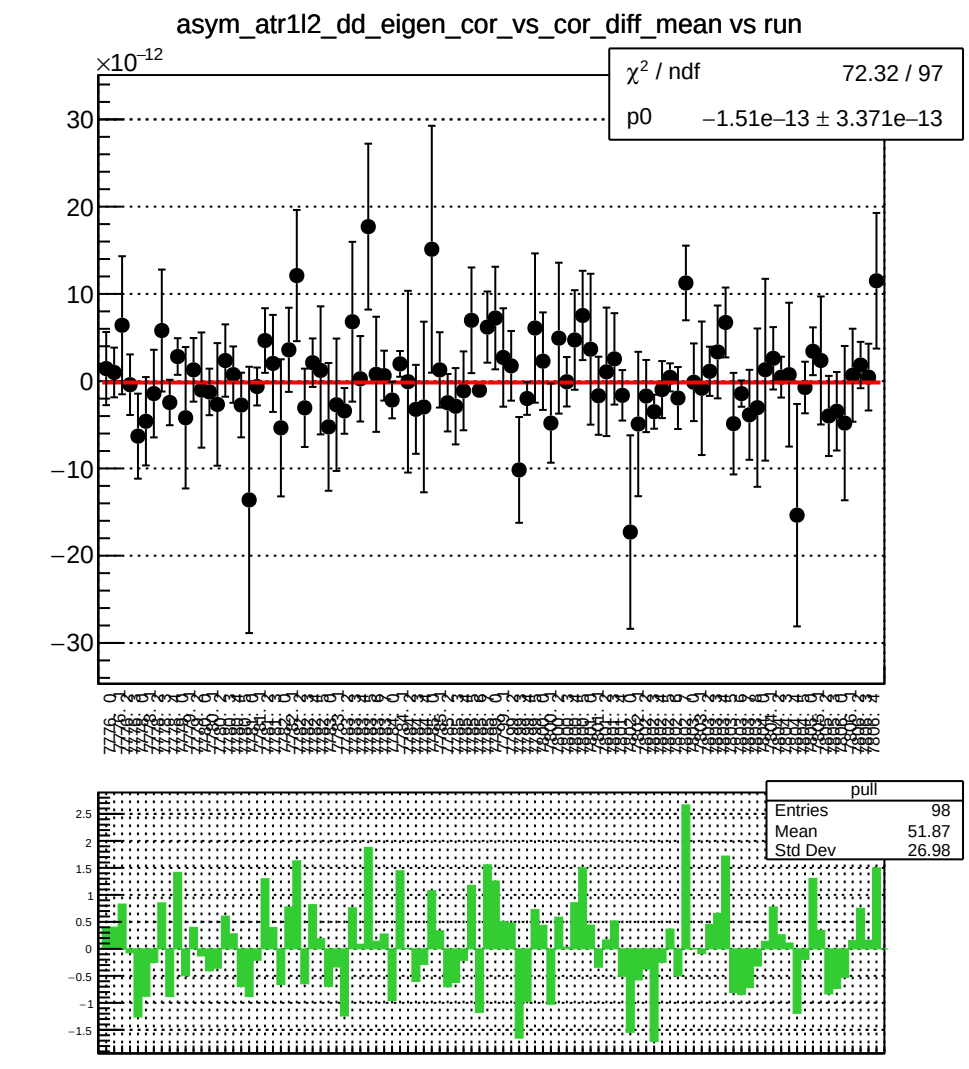

pull1D
Entries 98
Mean −0.01388
Std Dev 0.8976

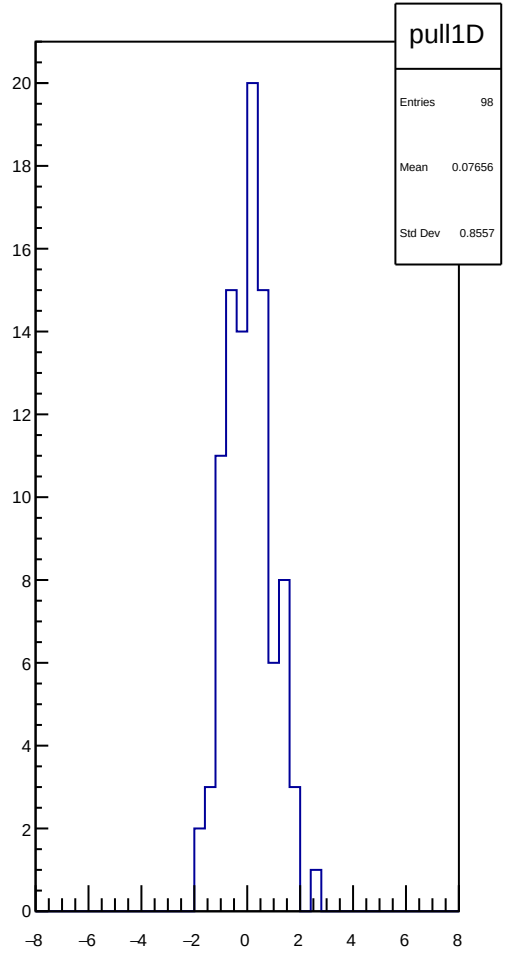

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 97
p0 162.5 ± 0.1211
450
400
350
300
250
200
150
100

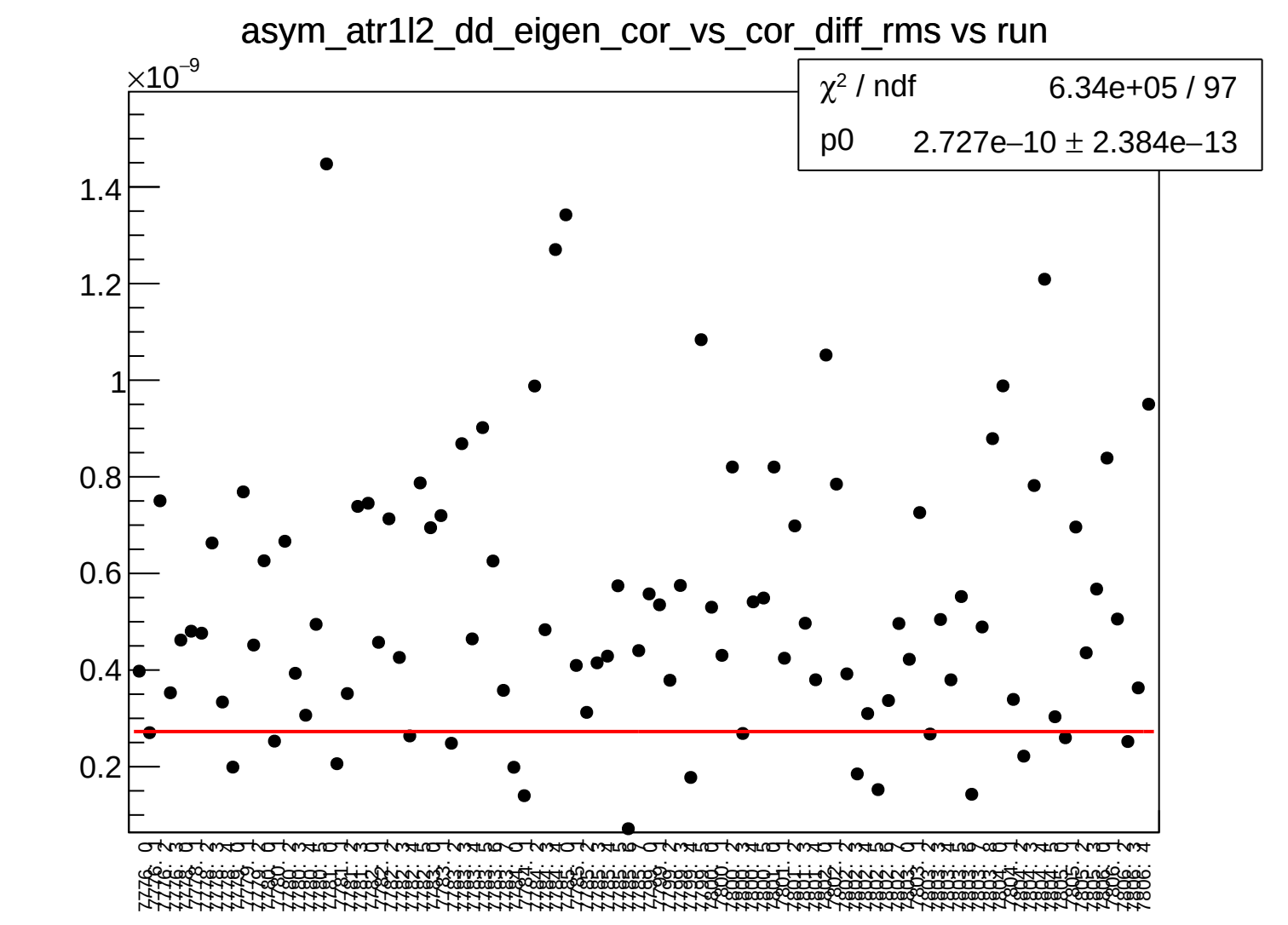

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.98 / 97
p0 0.163 ± 0.1712
pull
Entries 98
Mean 415.3
Std Dev 0

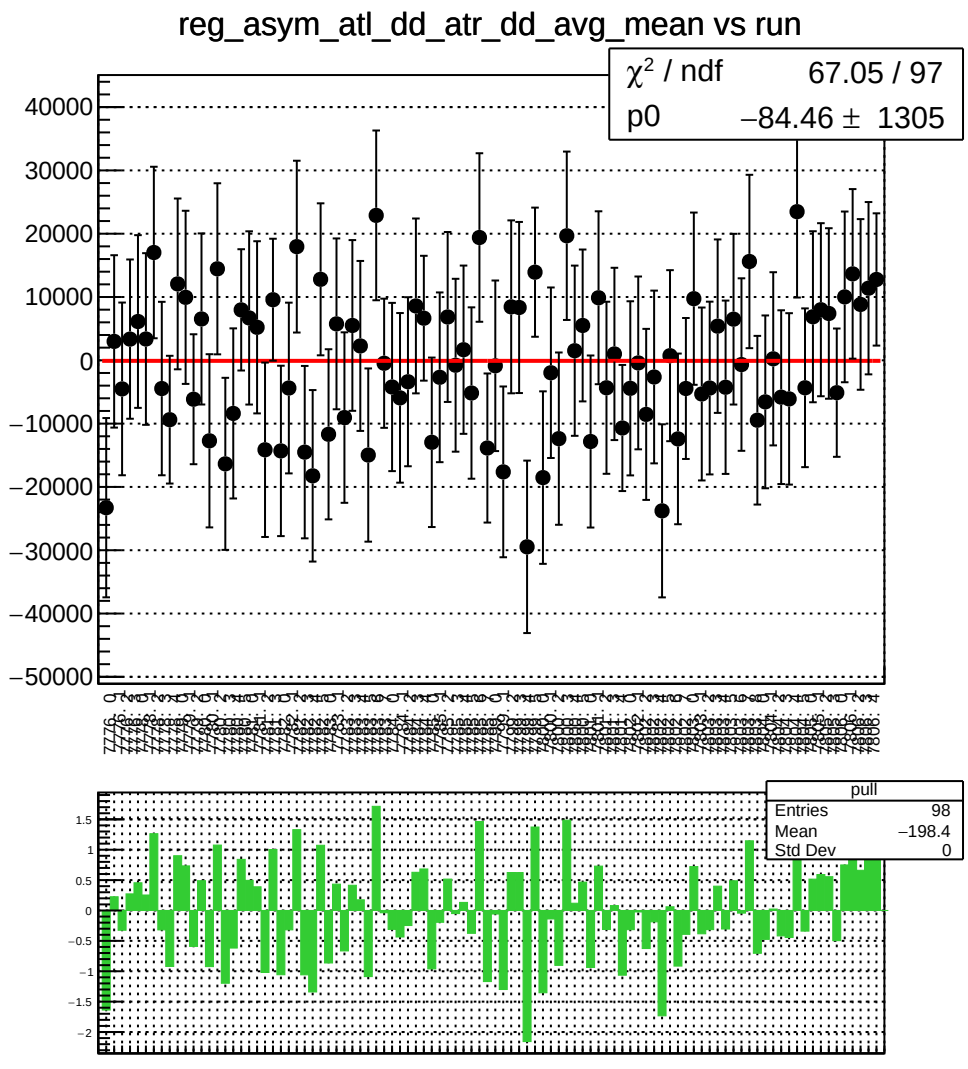

pull1D
Entries 98
Mean −0.01388
Std Dev 0.8976

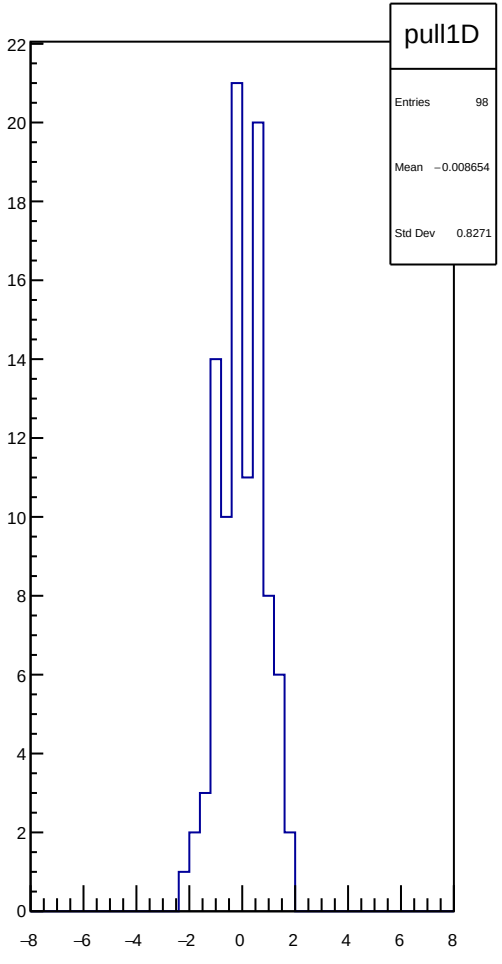

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 97
p0 162.5 ± 0.1211
450
400
350
300
250
200
150
100

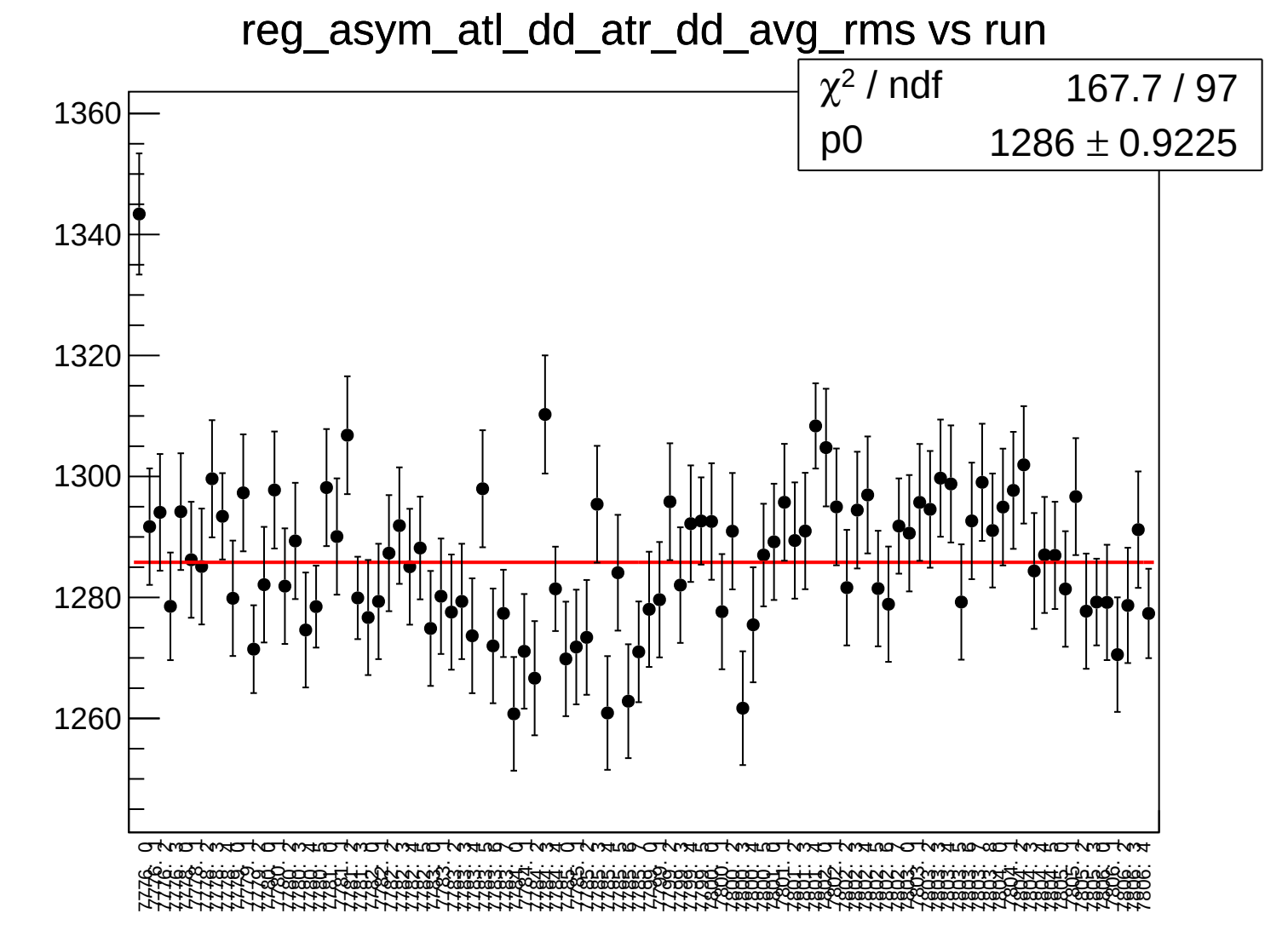

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 72.32 / 97
p0 −1.51e−13 ± 3.371e−13
pull
Entries 98
Mean 51.87
Std Dev 26.98

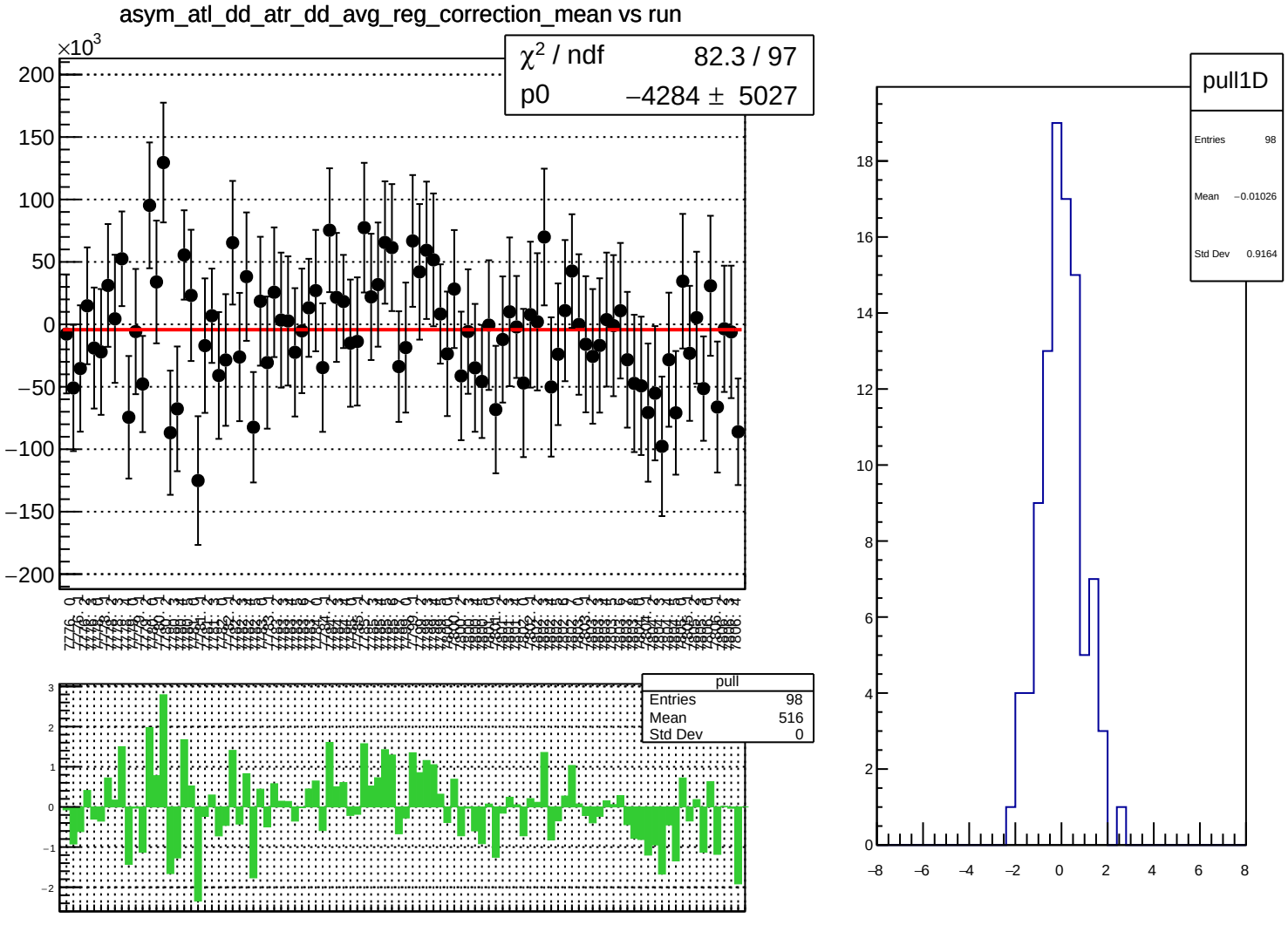

pull1D
Entries 98
Mean 0.07656
Std Dev 0.8557

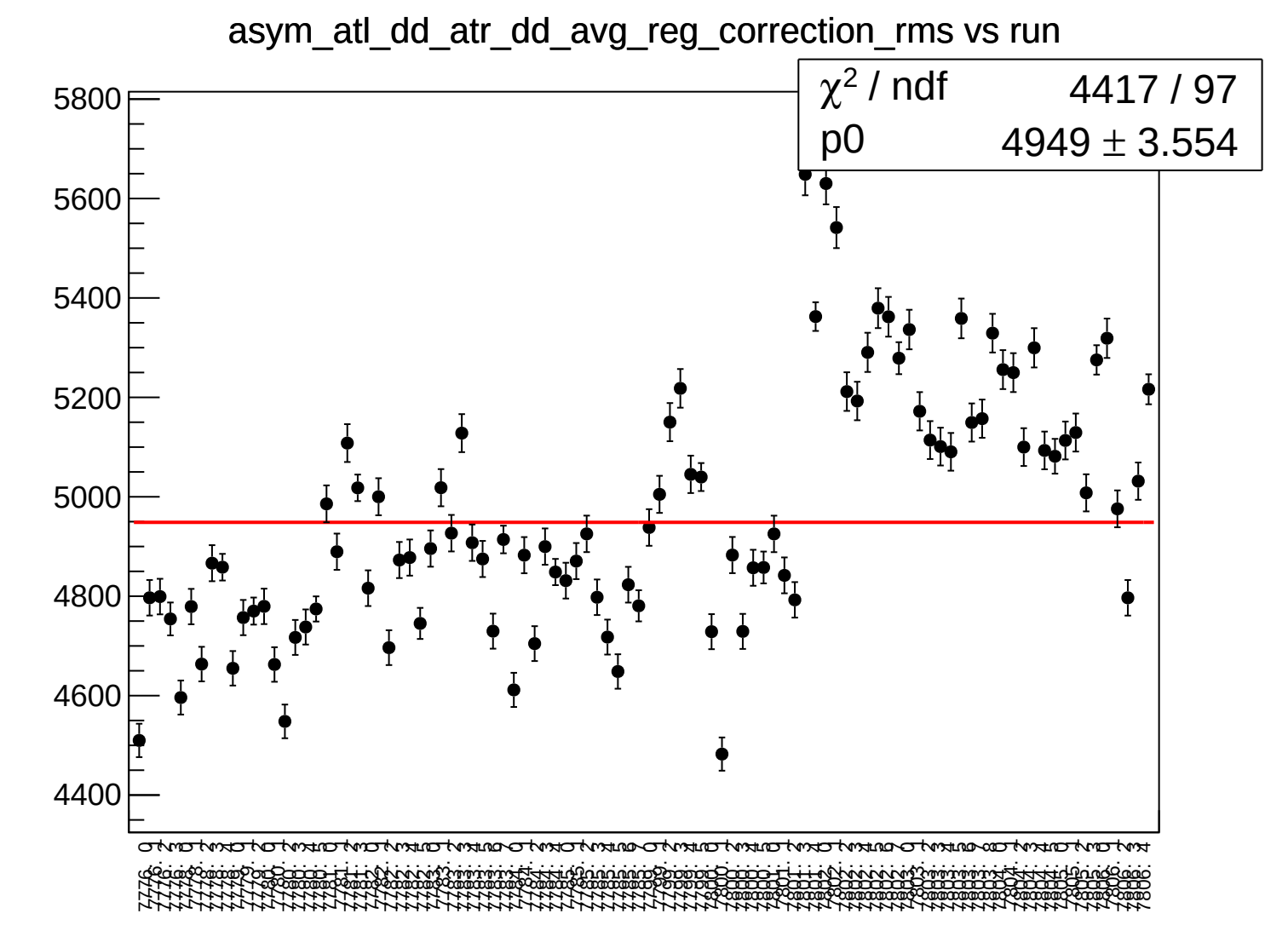

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.34e+05 / 97
p0 2.727e−10 ± 2.384e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

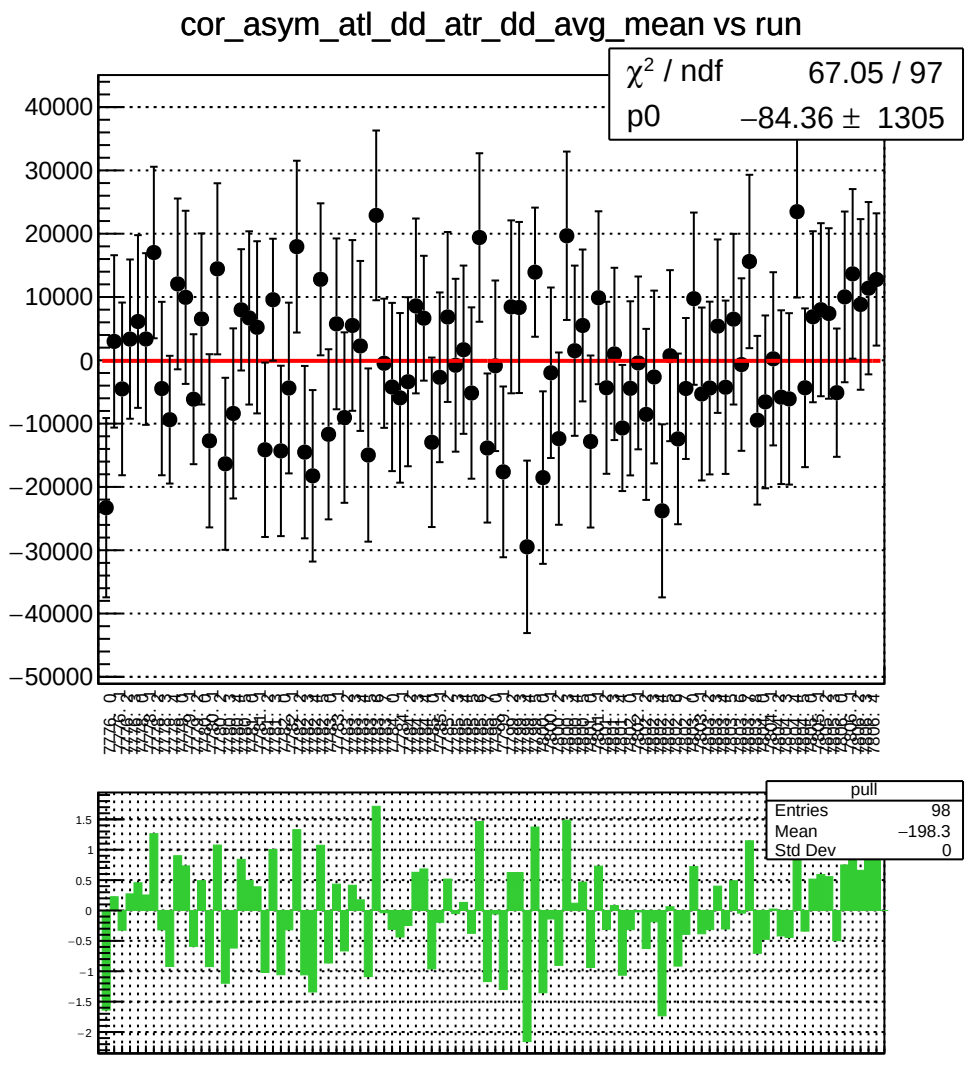

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.05 / 97
p0 −84.46 ± 1305
pull
Entries 98
Mean −198.4
Std Dev 0

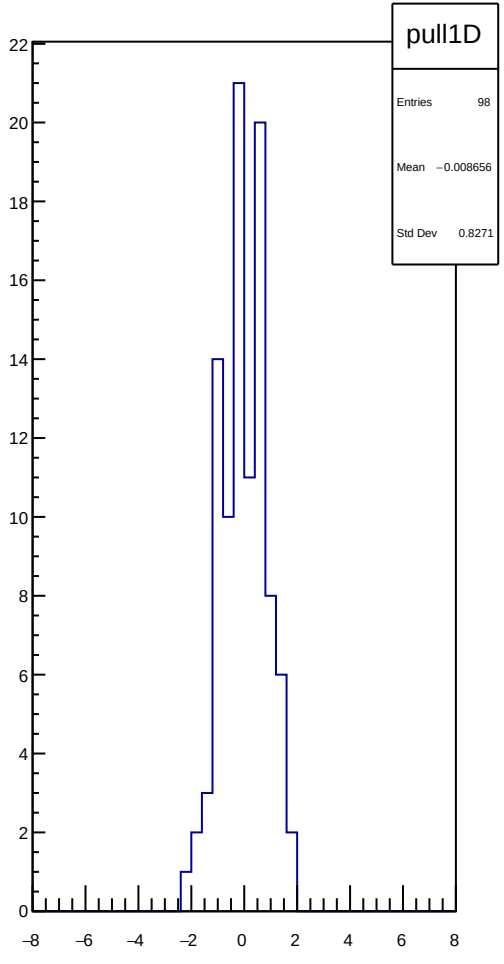

pull1D
Entries 98
Mean −0.008654
Std Dev 0.8271

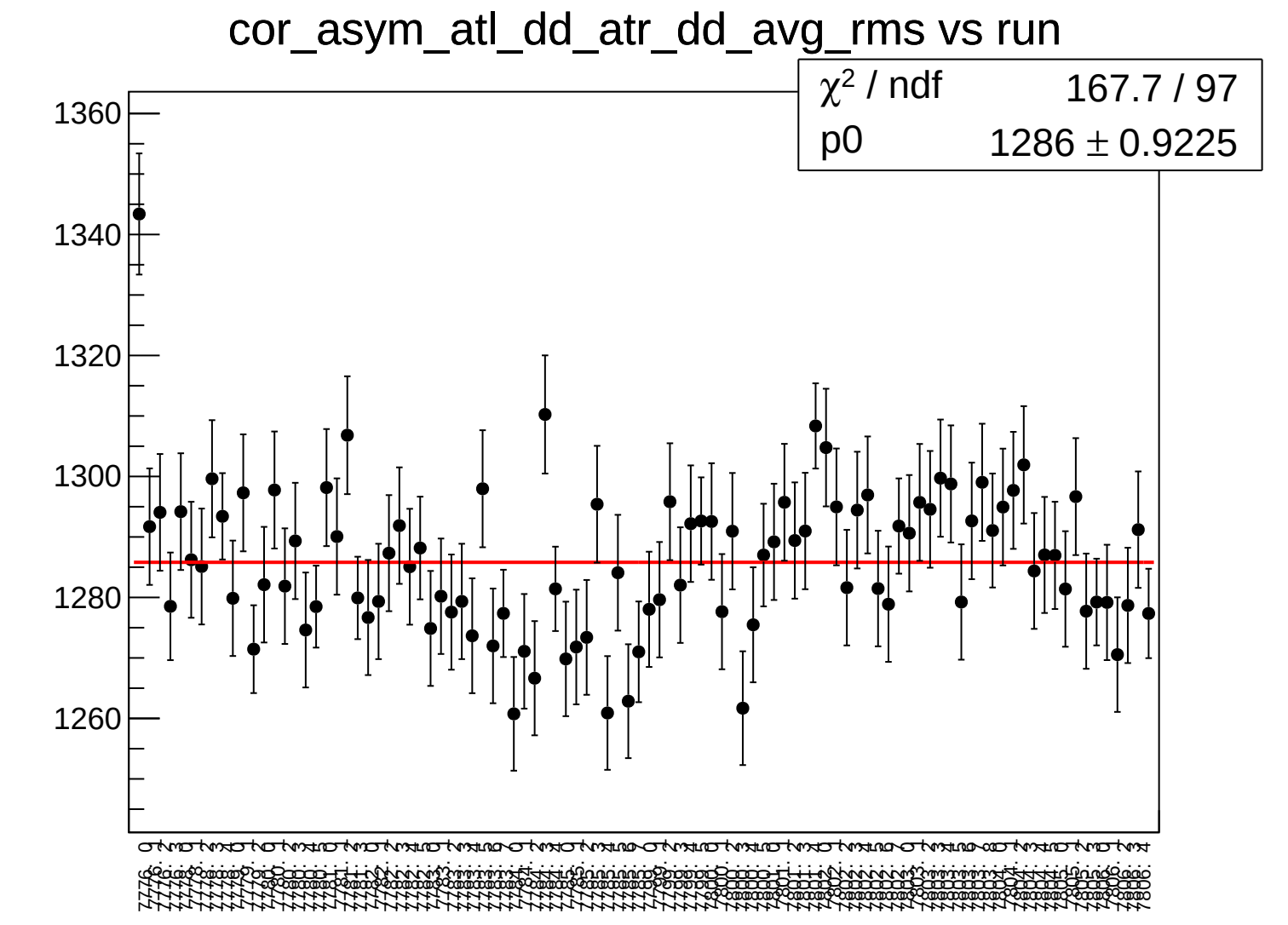

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 167.7 / 97
p0 1286 ± 0.9225
1360
1340
1320
1300
1280
1260

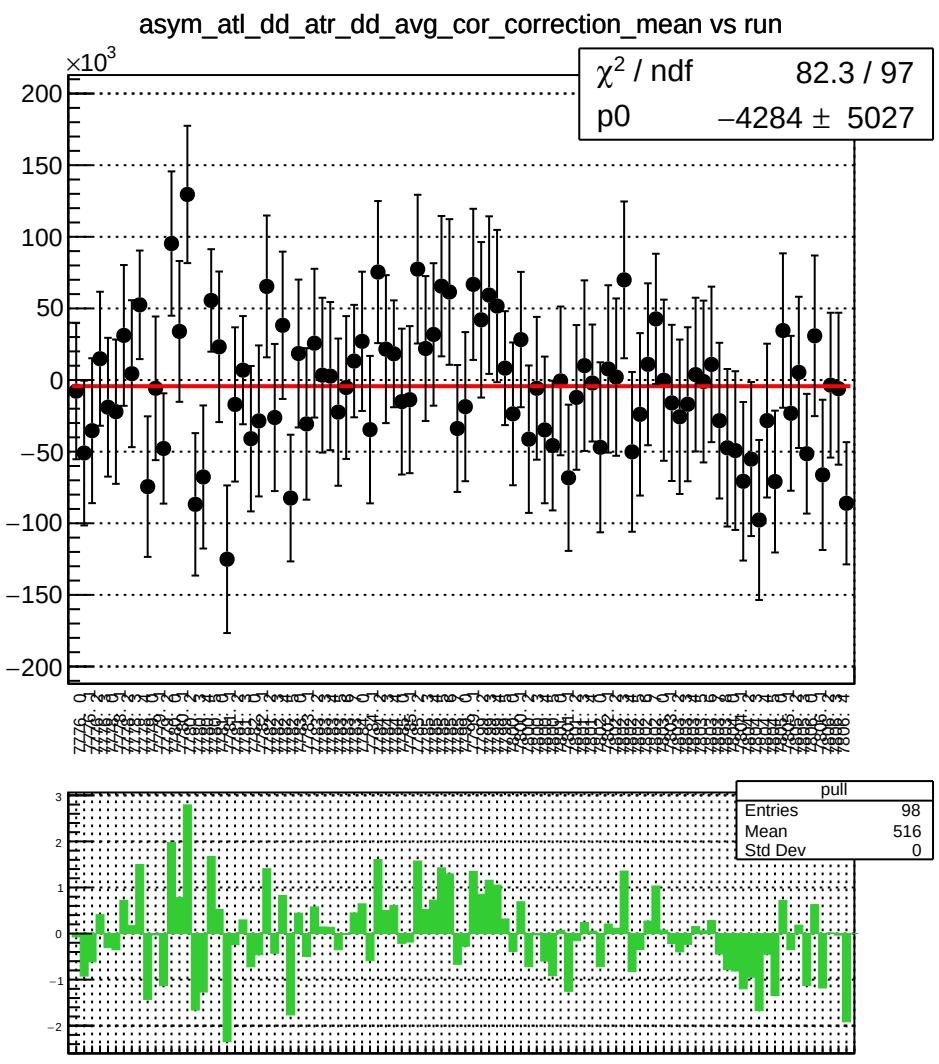

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.3 / 97
p0 −4284 ± 5027
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 516
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01026
Std Dev 0.9164
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

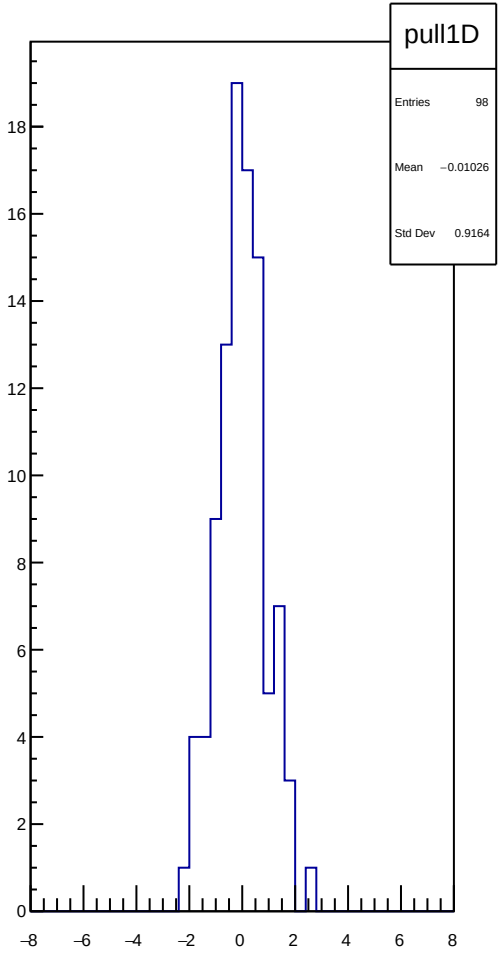

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 4417 / 97
p0 4949 ± 3.554
5800
5600
5400
5200
5000
4800
4600
4400

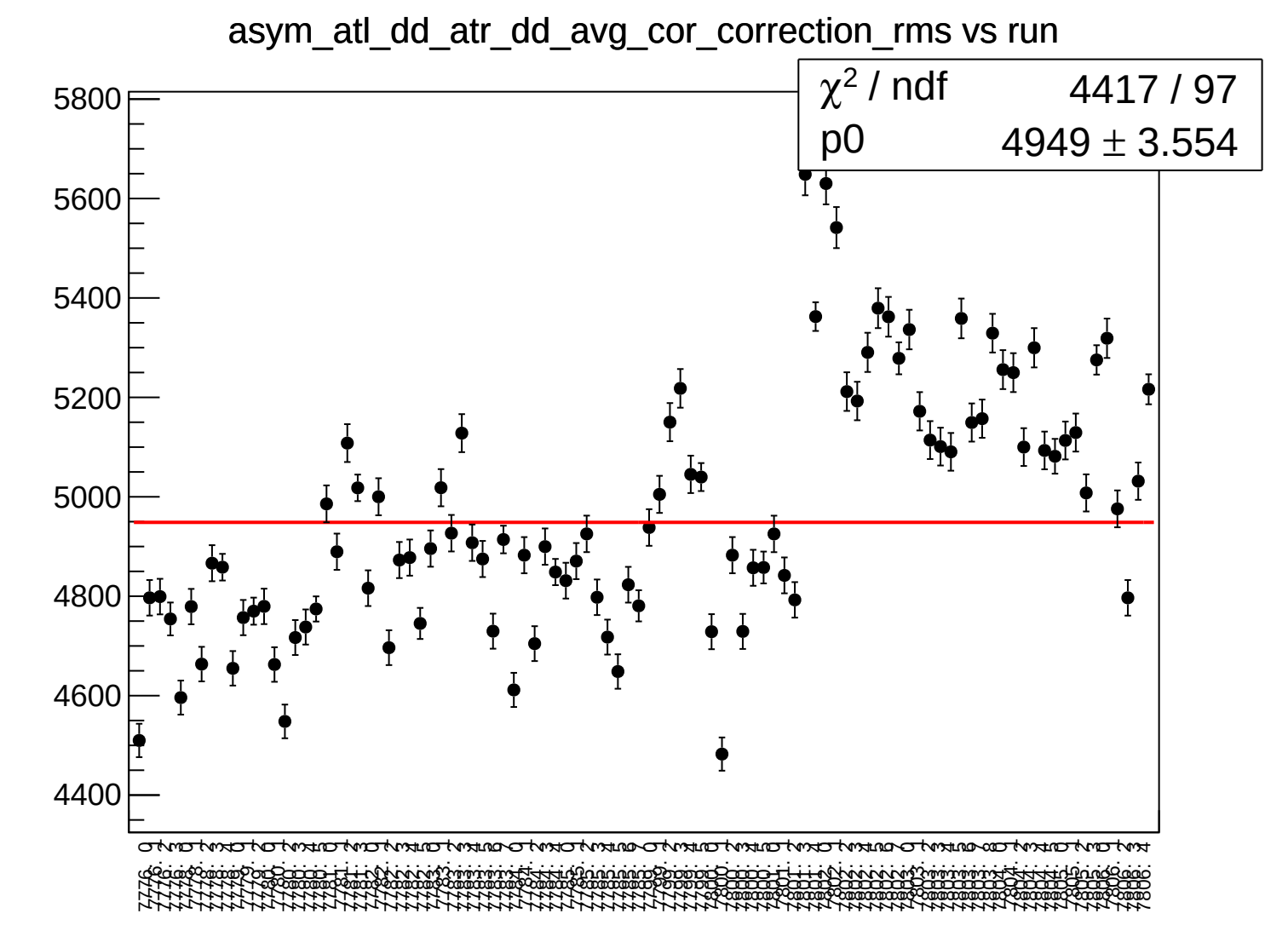

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.05 / 97
p0 −84.36 ± 1305
pull
Entries 98
Mean −198.3
Std Dev 0

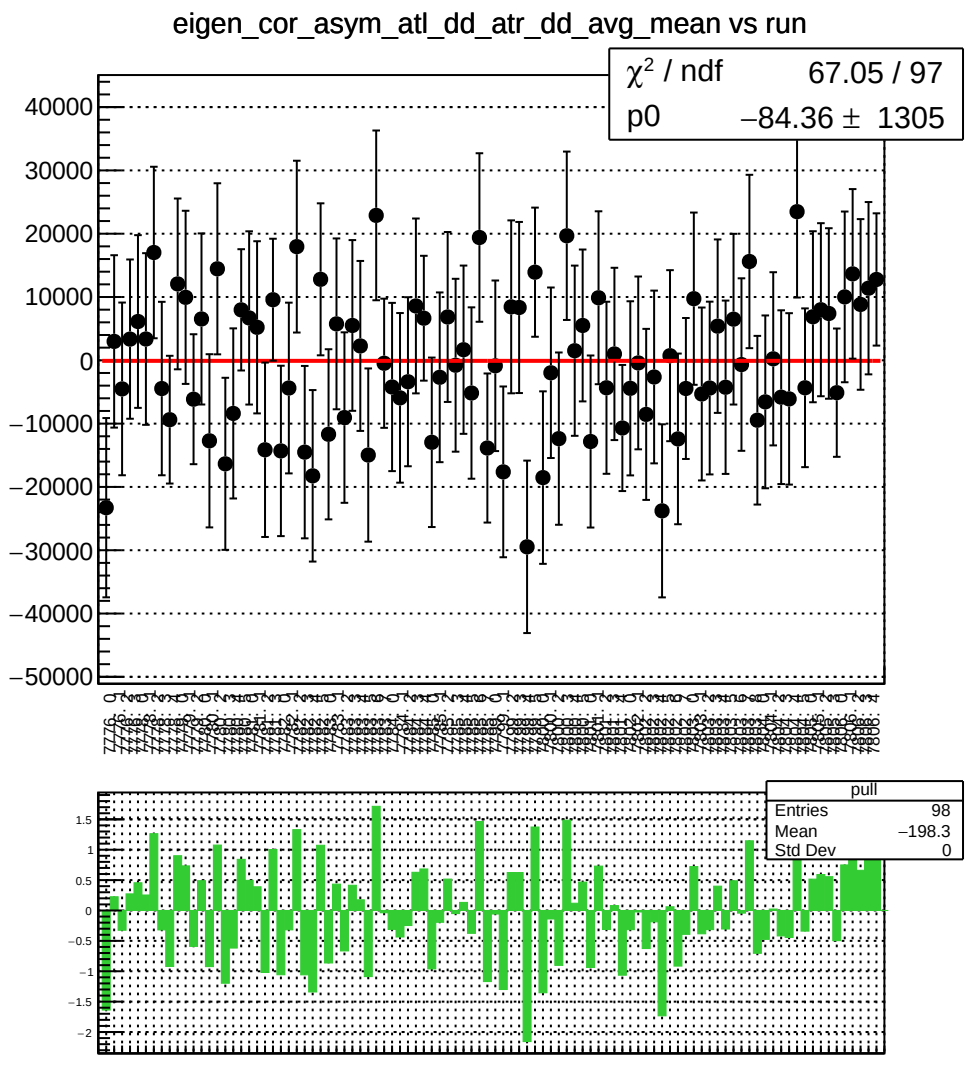

pull1D
Entries 98
Mean −0.008656
Std Dev 0.8271

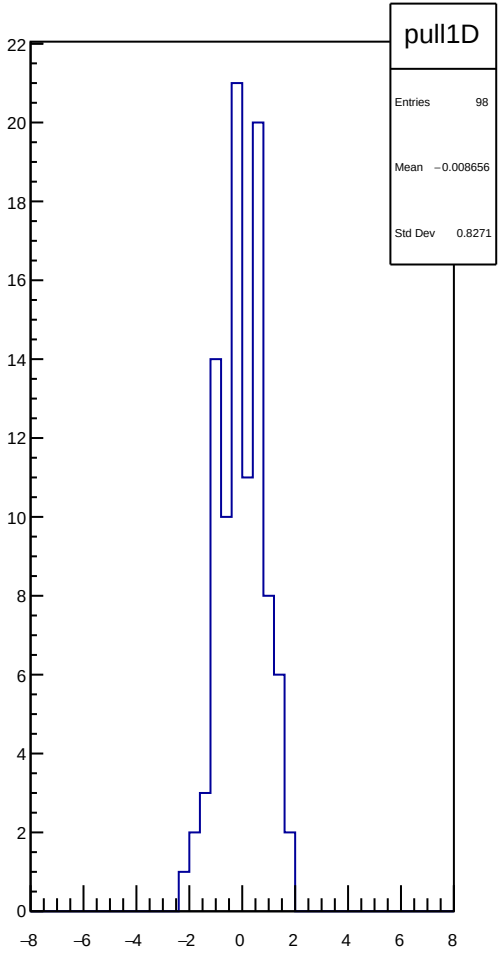

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 167.7 / 97
p0 1286 ± 0.9225
1360
1340
1320
1300
1280
1260

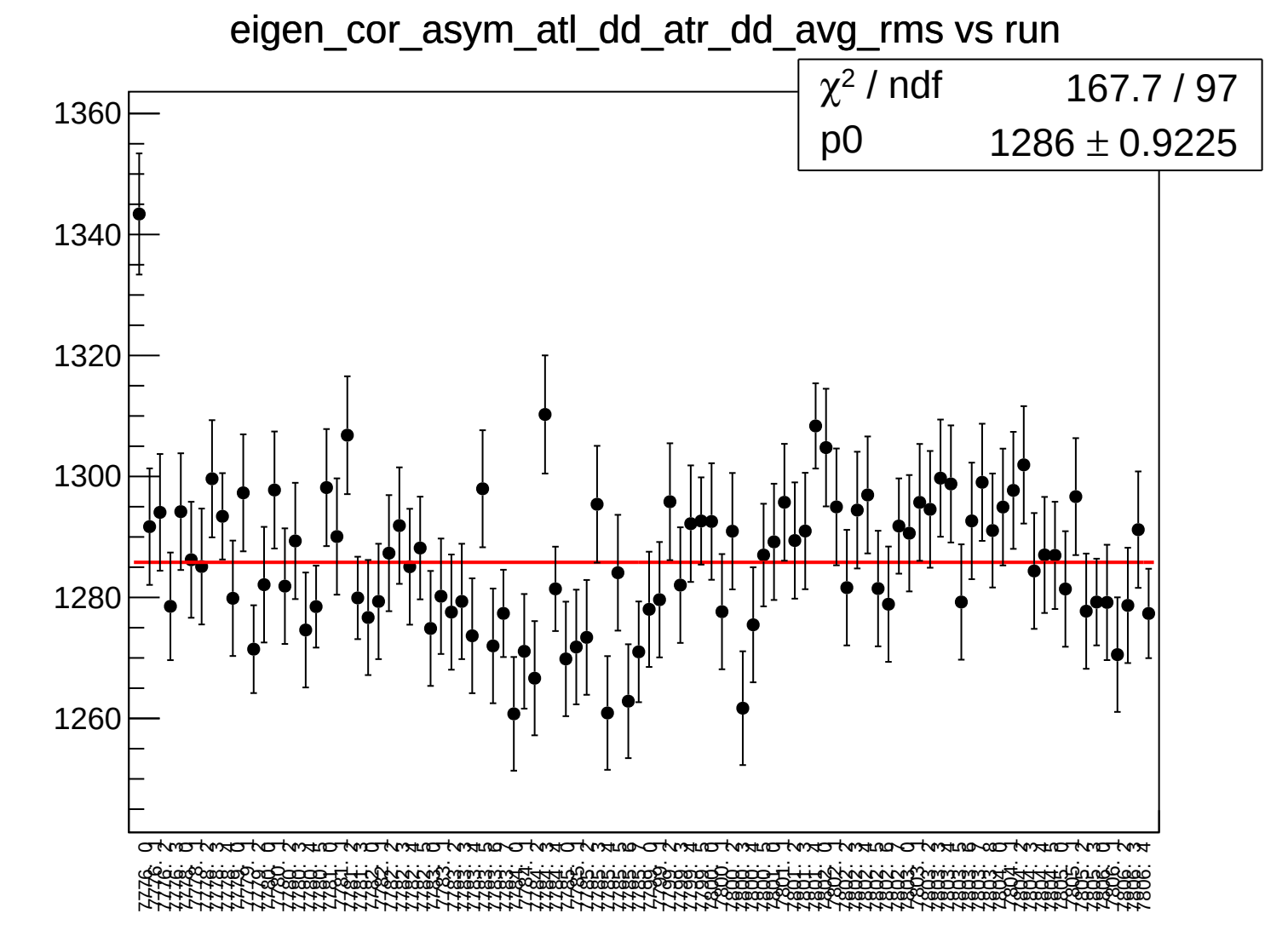

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.3 / 97
p0 −4284 ± 5027
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 516
Std Dev 0
3
2
1
0
−1
−2

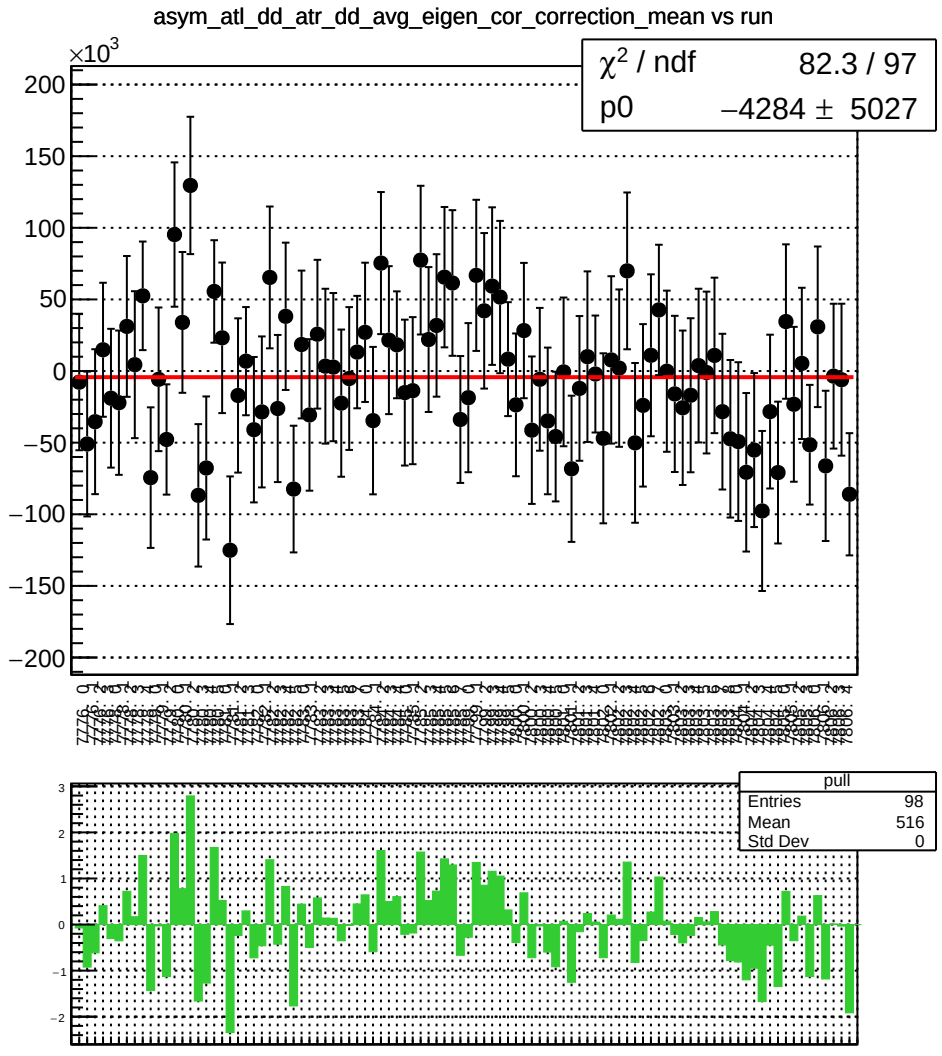

pull1D
Entries 98
Mean −0.01026
Std Dev 0.9164
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

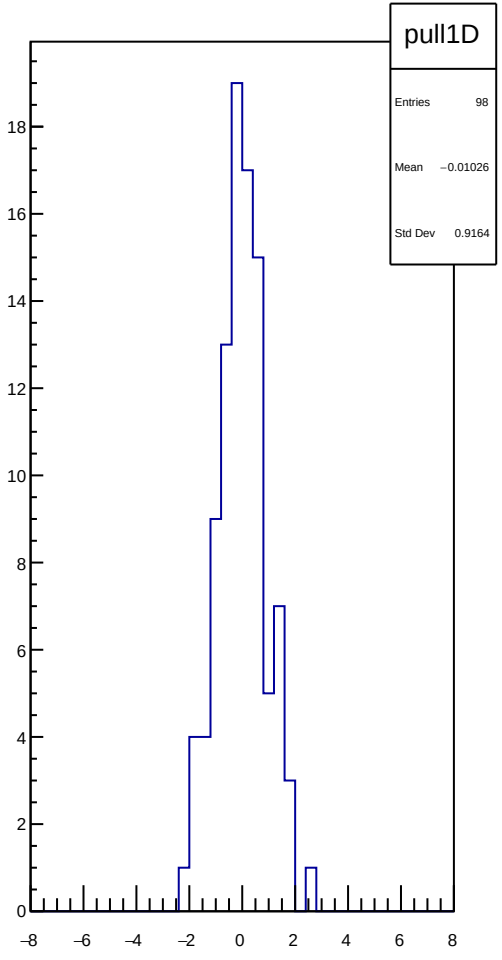

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 4417 / 97
p0 4949 ± 3.554
5800
5600
5400
5200
5000
4800
4600
4400

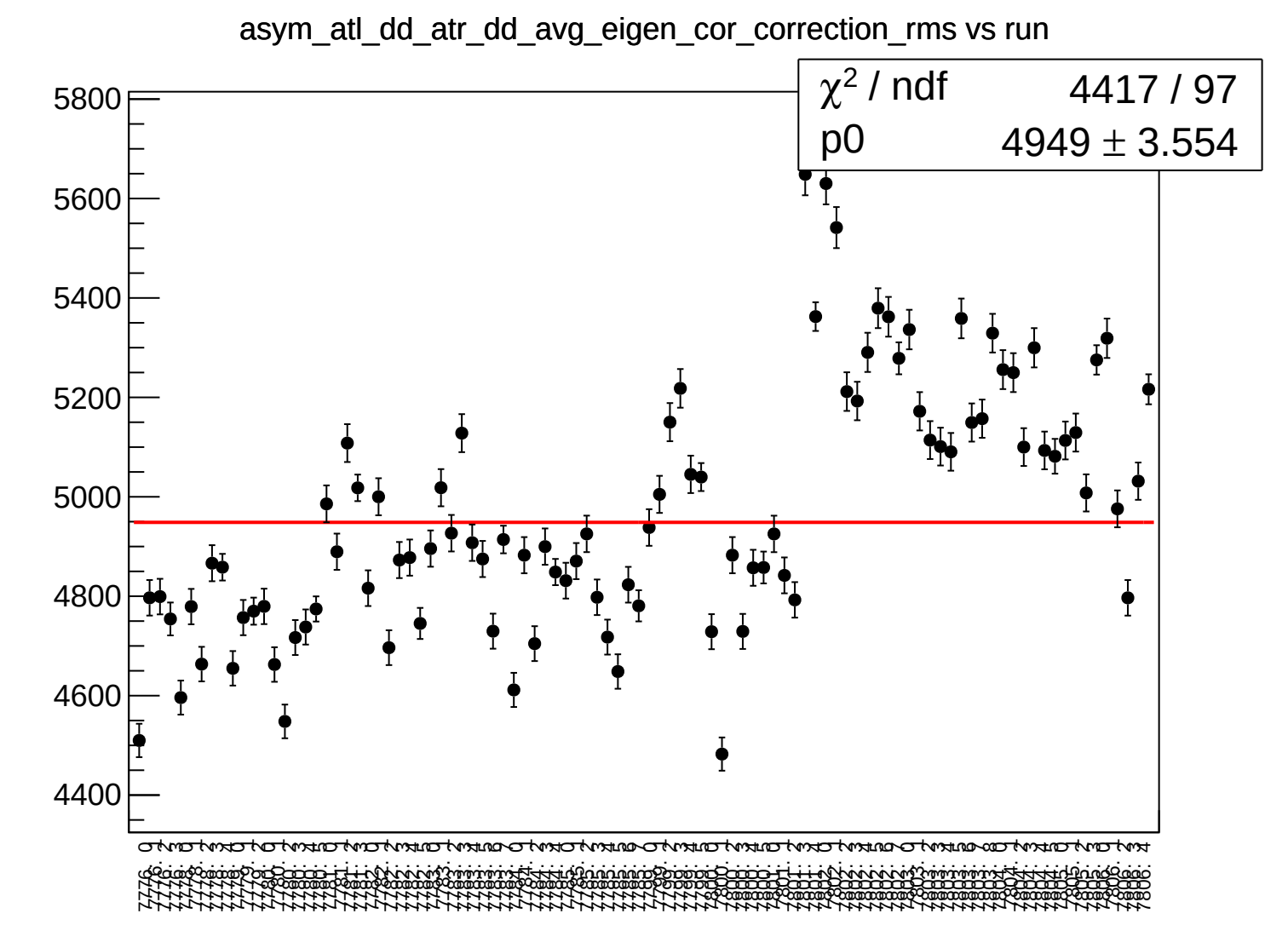

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.05 / 97
p0 −84.36 ± 1305
pull
Entries 98
Mean −198.3
Std Dev 0

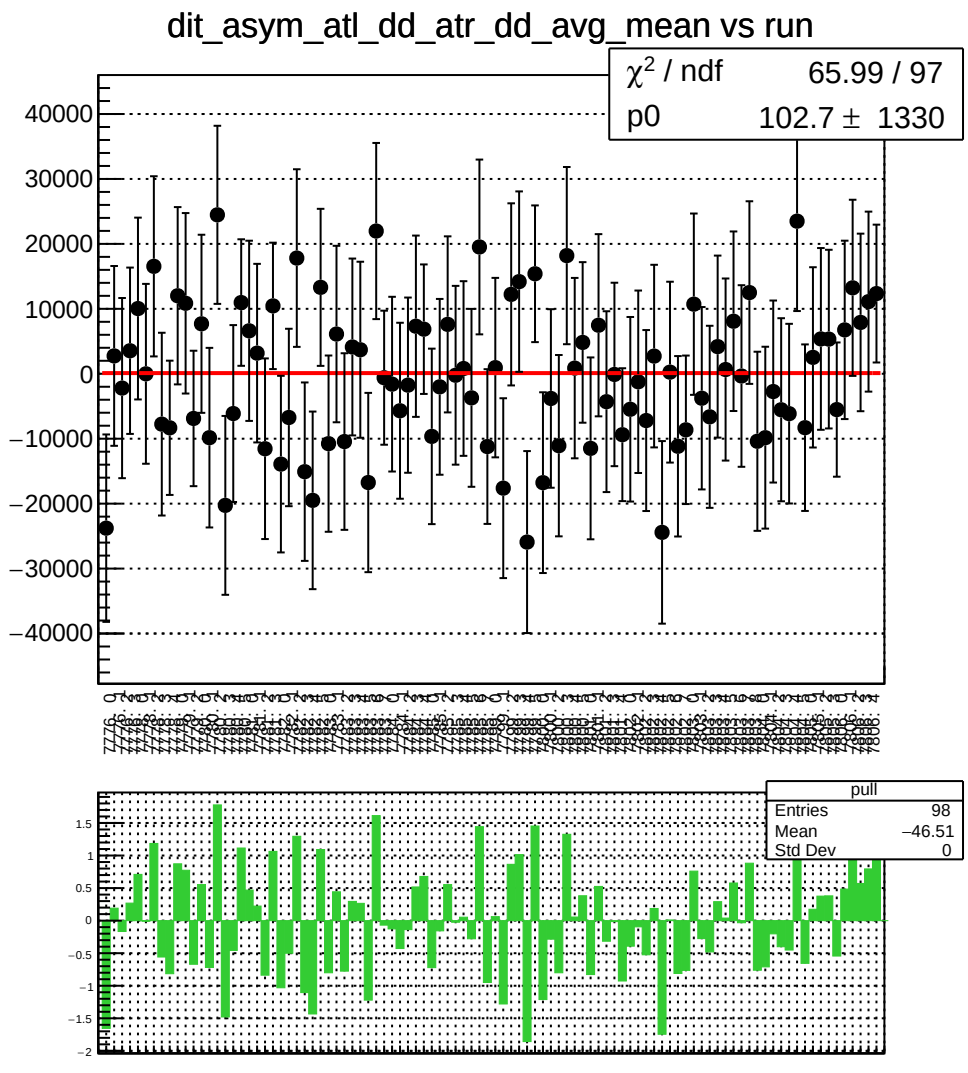

pull1D
Entries 98
Mean −0.008656
Std Dev 0.8271

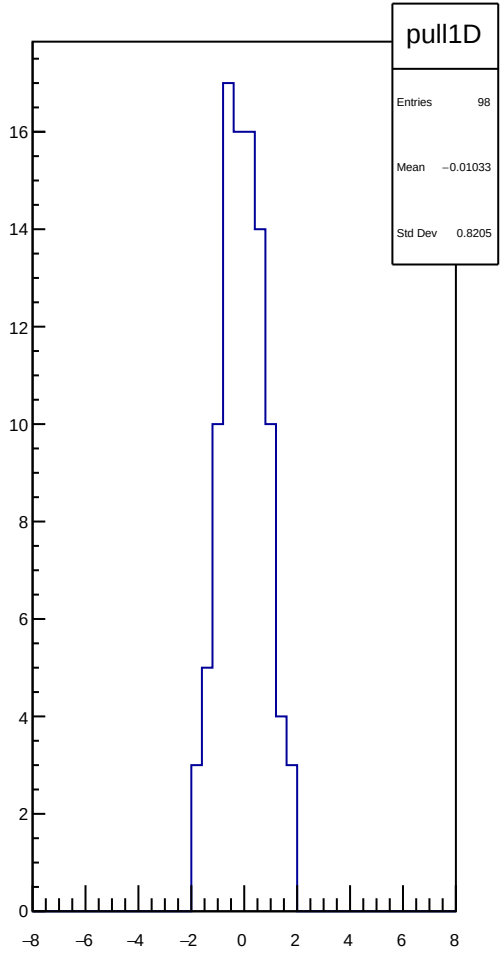

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 167.7 / 97
p0 1286 ± 0.9225
1360
1340
1320
1300
1280
1260

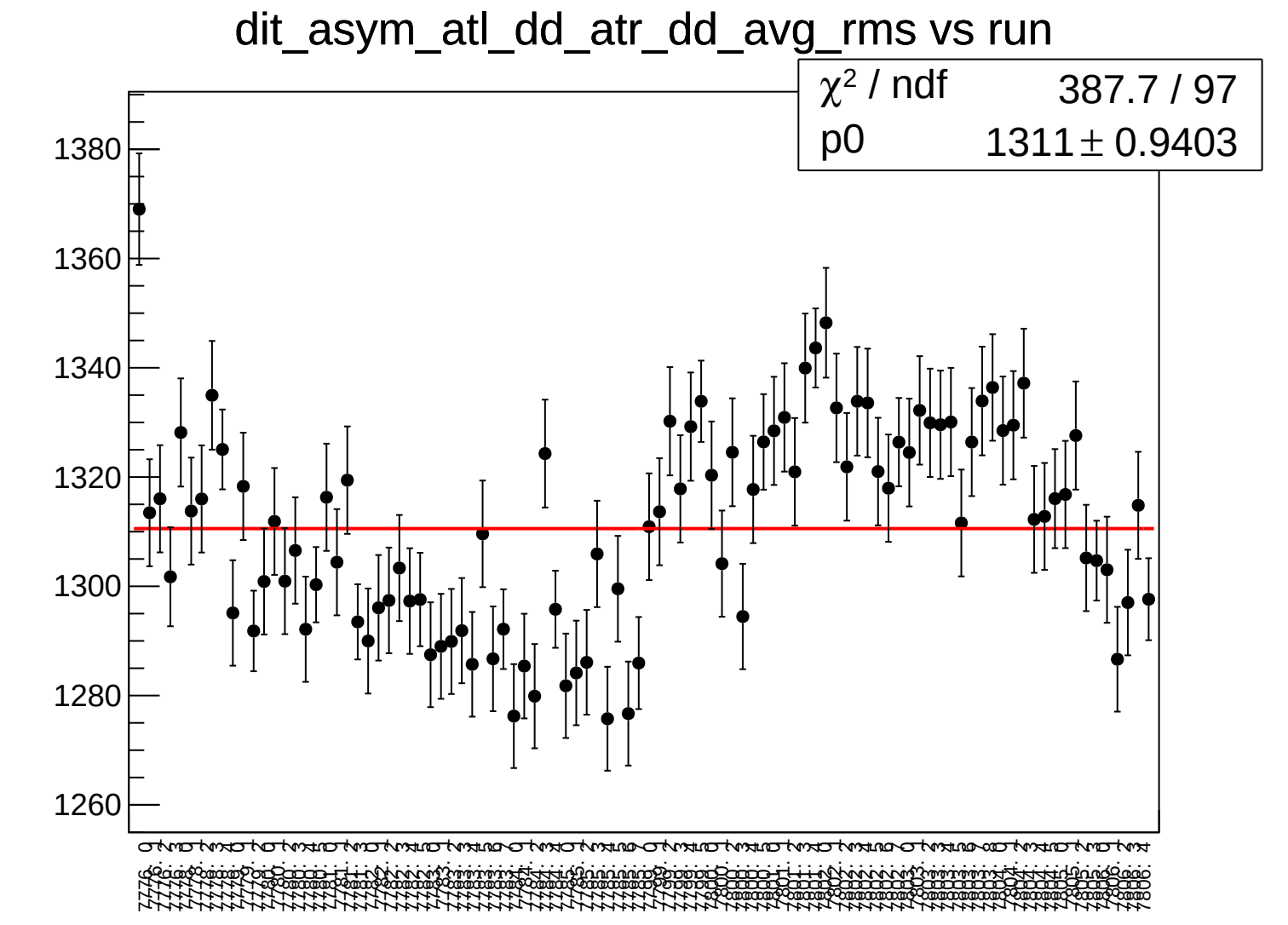

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.3 / 97
p0 −4284 ± 5027
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 516
Std Dev 0
3
2
1
0
−1
−2

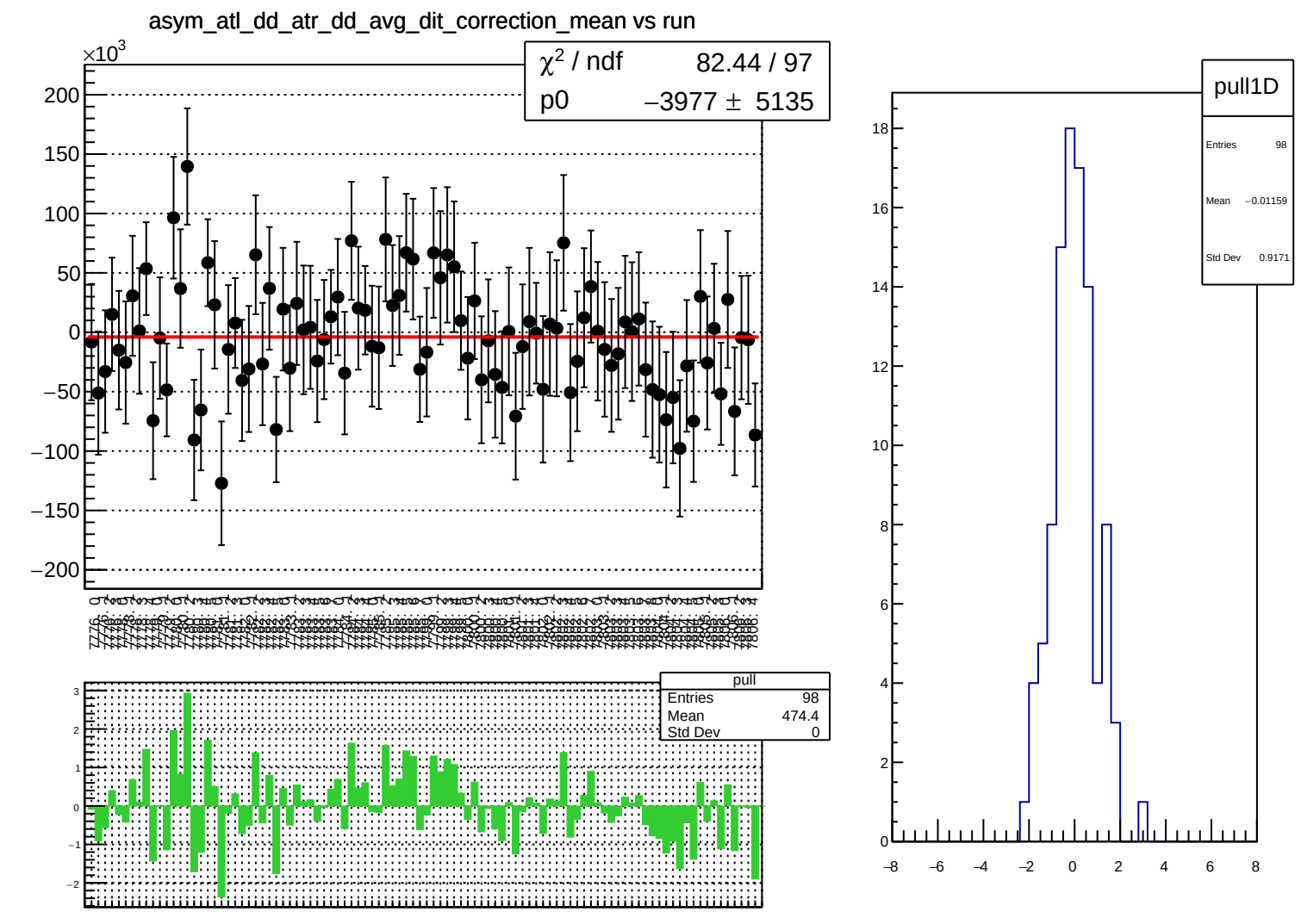

pull1D
Entries 98
Mean −0.01026
Std Dev 0.9164
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

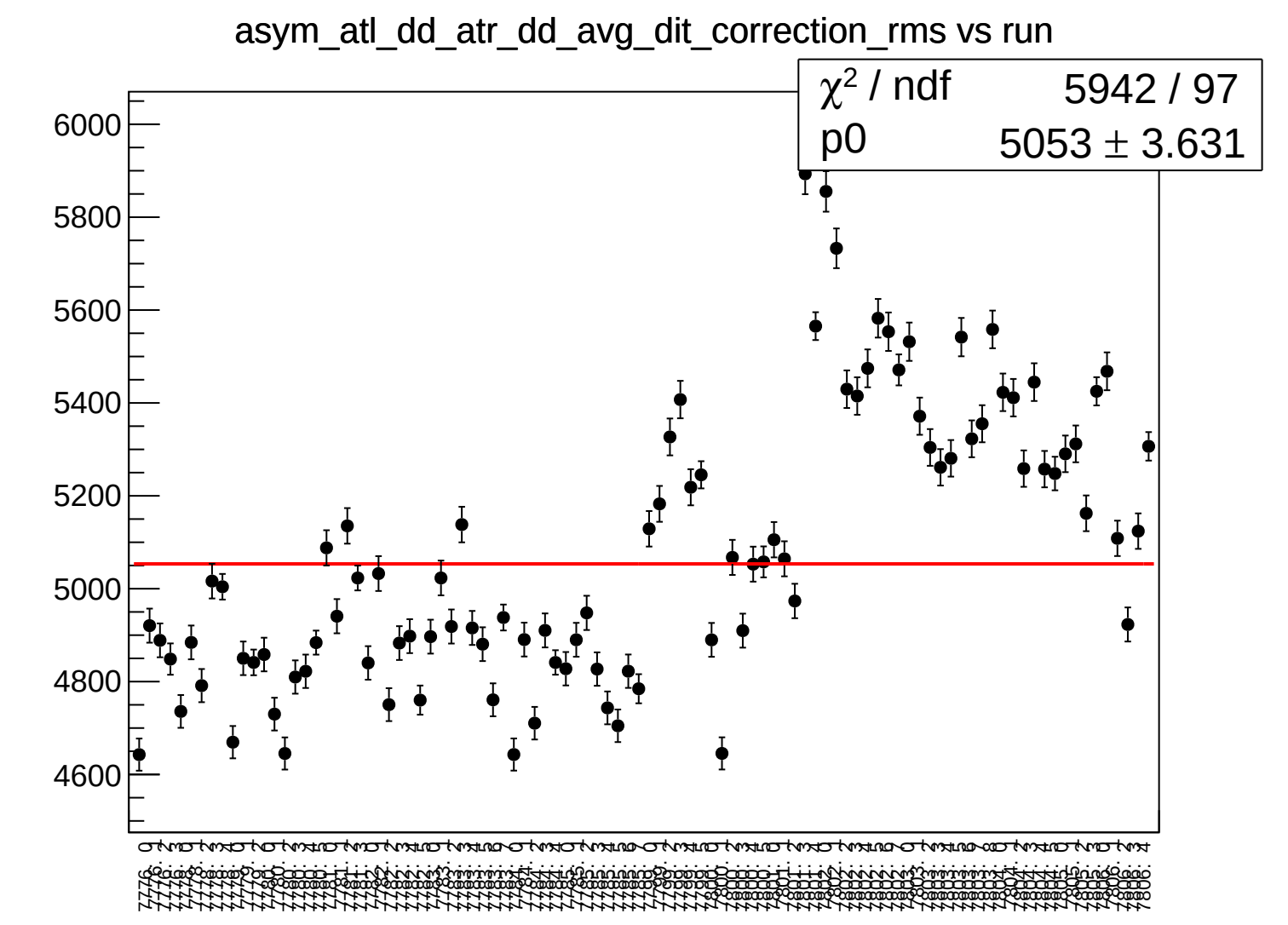

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4417 / 97
p0 4949 ± 3.554
5800
5600
5400
5200
5000
4800
4600
4400

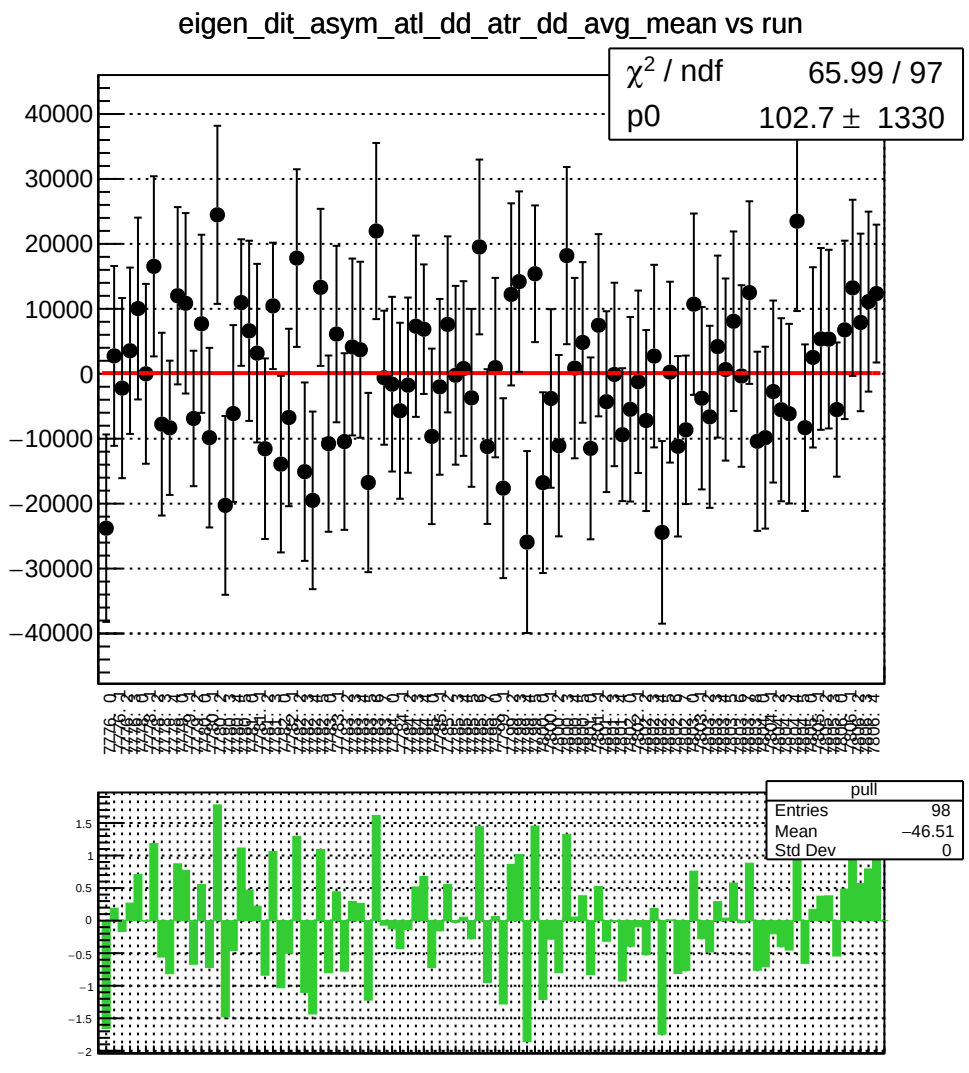

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 65.99 / 97
p0 102.7 ± 1330
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean −46.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

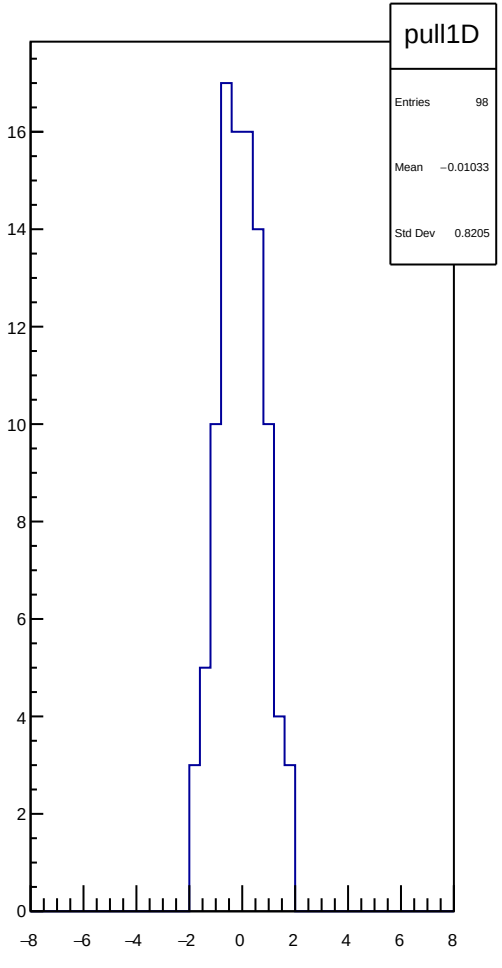

pull1D
Entries 98
Mean −0.01033
Std Dev 0.8205
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

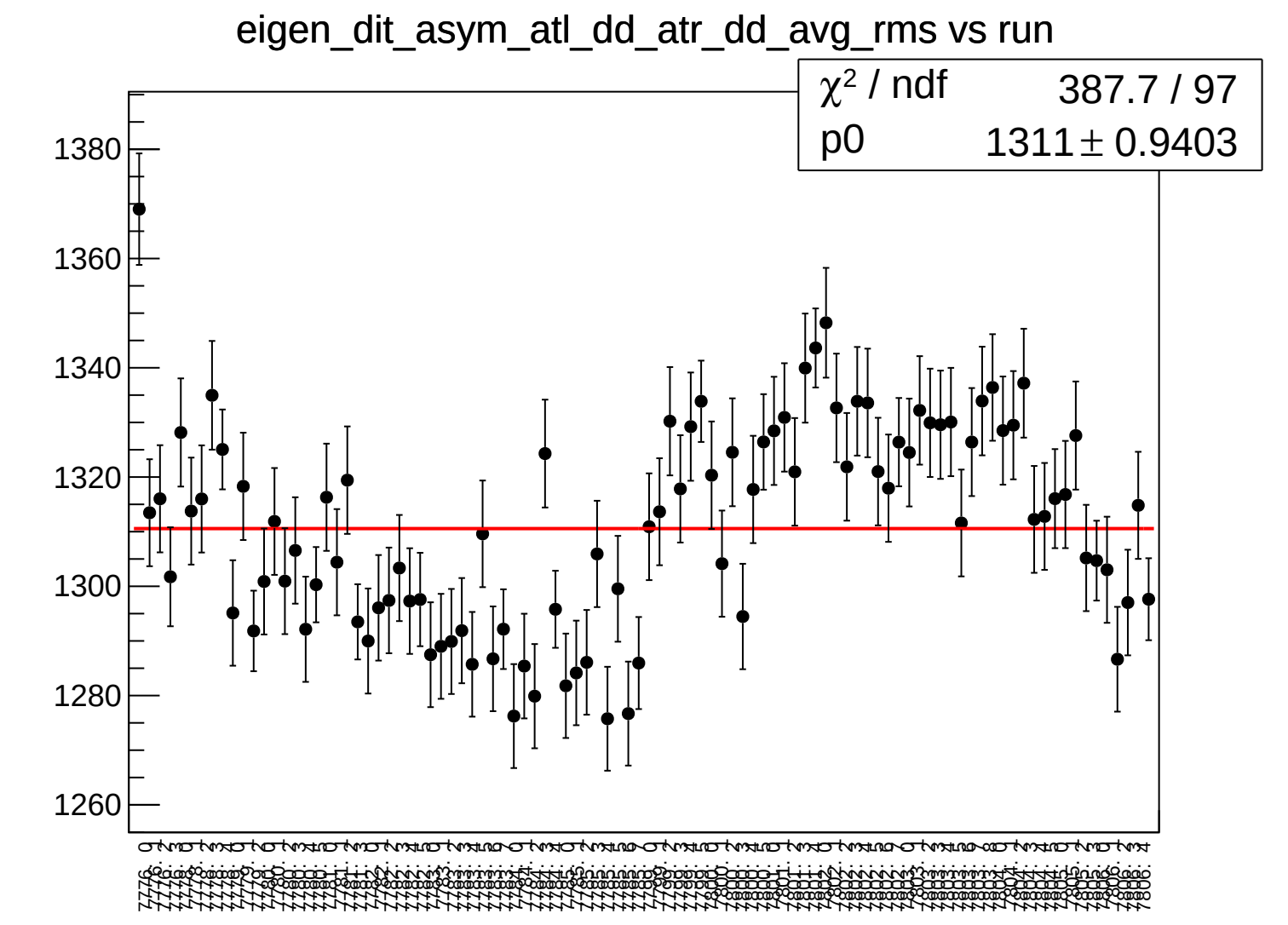

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 387.7 / 97
p0 1311 ± 0.9403
1380
1360
1340
1320
1300
1280
1260

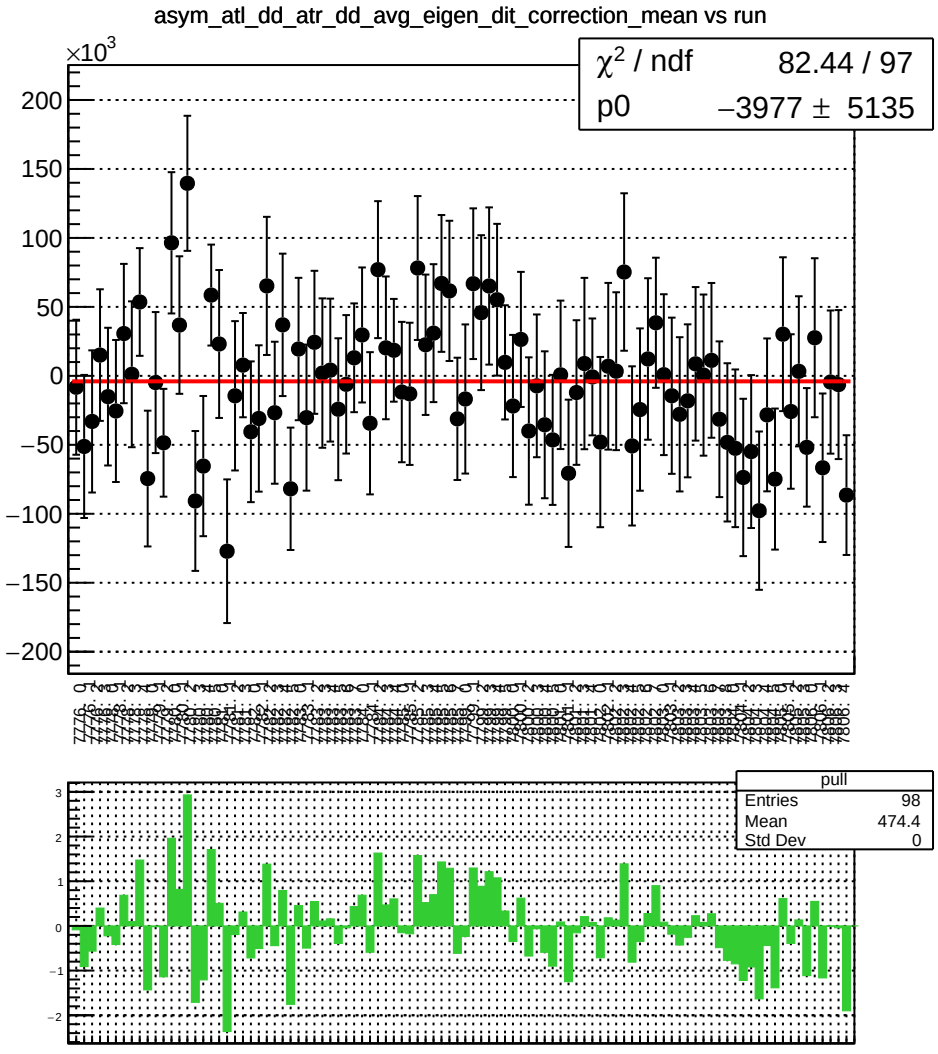

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.44 / 97
p0 −3977 ± 5135
pull
Entries 98
Mean 474.4
Std Dev 0
pull1D
Entries 98
Mean −0.01159
Std Dev 0.9171

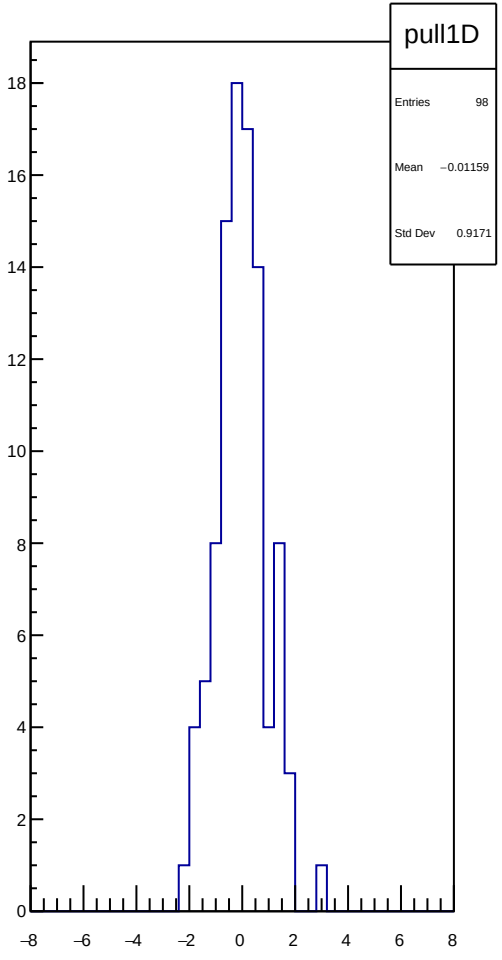

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 5942 / 97
p0 5053 ± 3.631
6000
5800
5600
5400
5200
5000
4800
4600

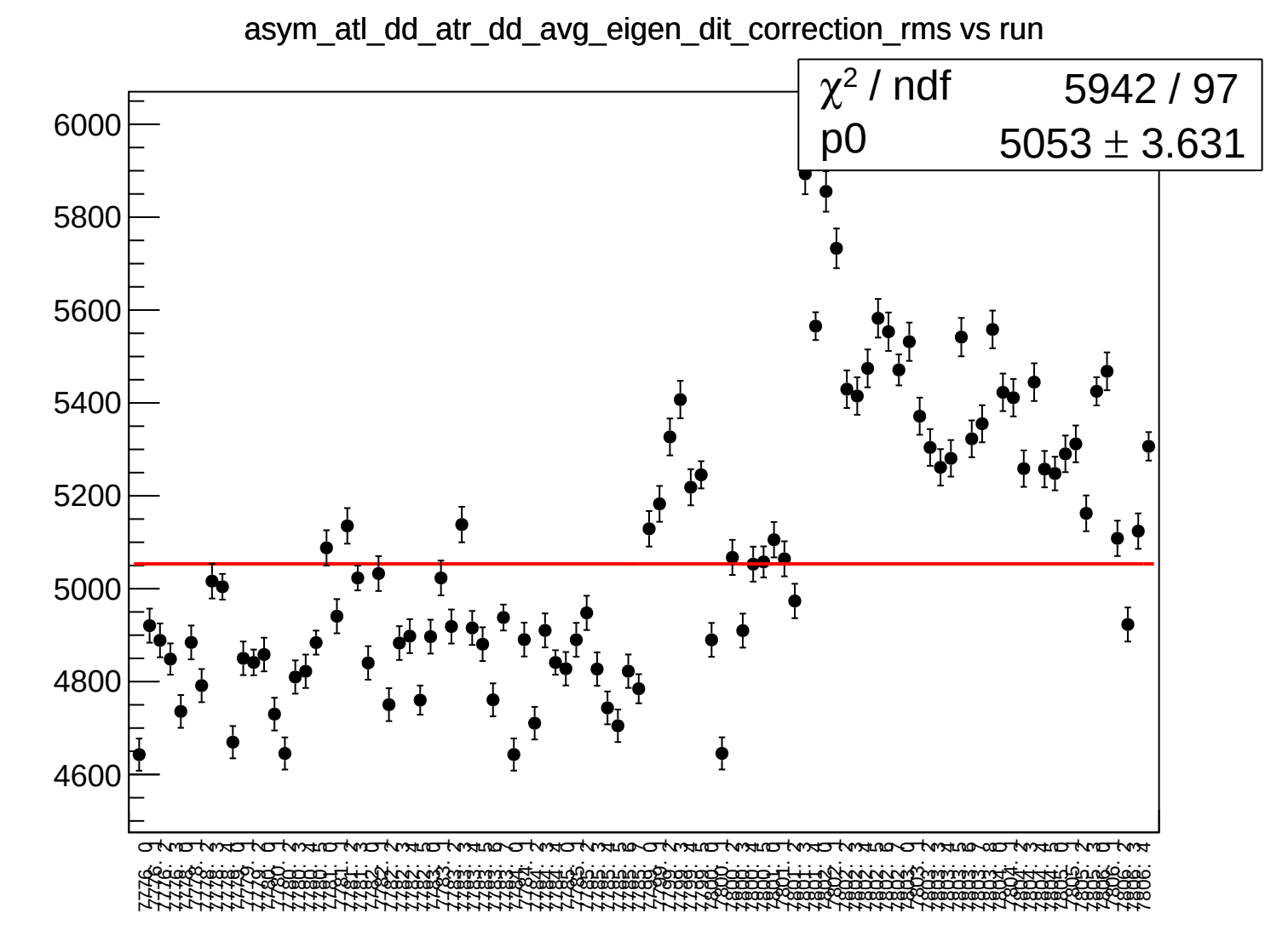

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 65.99 / 97
p0 102.7 ± 1330
pull
Entries 98
Mean −46.51
Std Dev 0

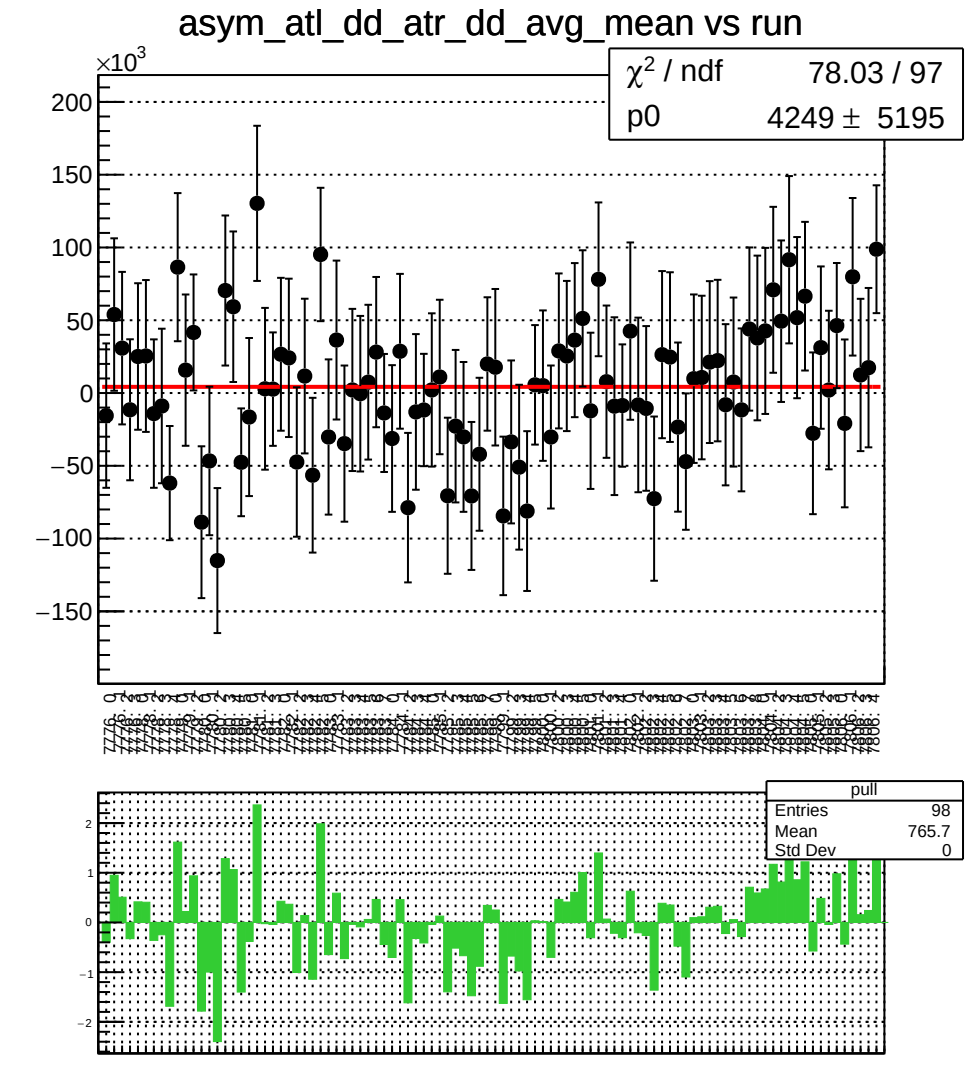

pull1D
Entries 98
Mean −0.01033
Std Dev 0.8205

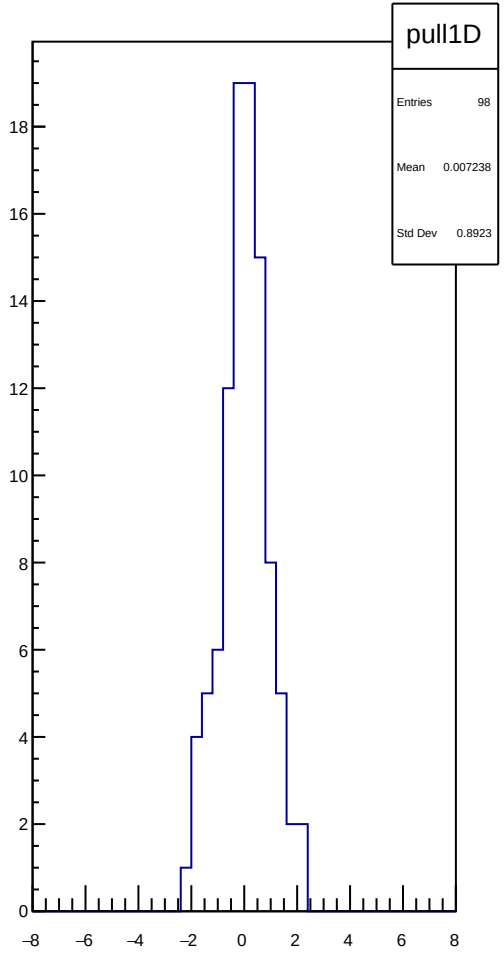

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 387.7 / 97
p0 1311 ± 0.9403
1380
1360
1340
1320
1300
1280
1260

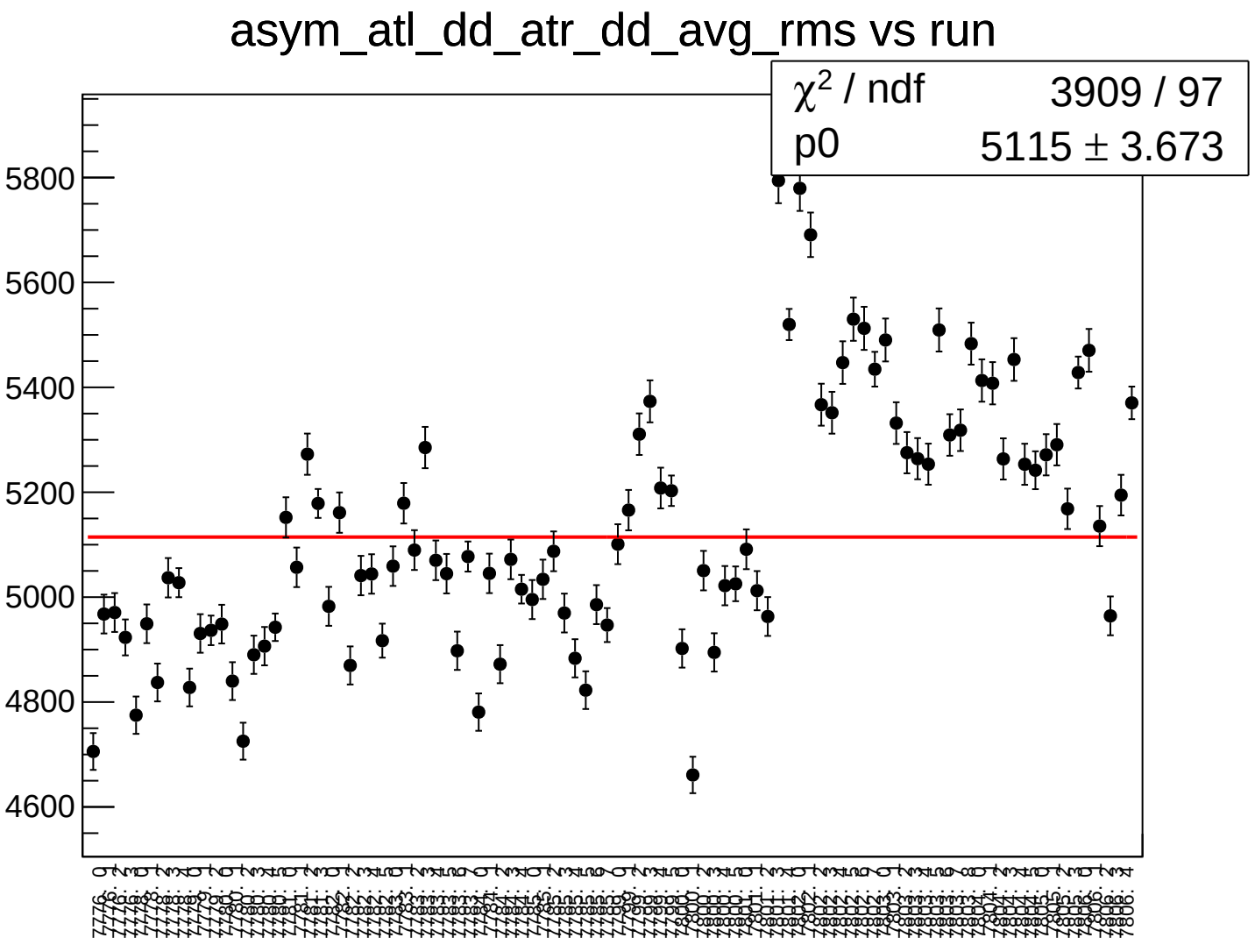

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.44 / 97
p0 −3977 ± 5135
pull
Entries 98
Mean 474.4
Std Dev 0

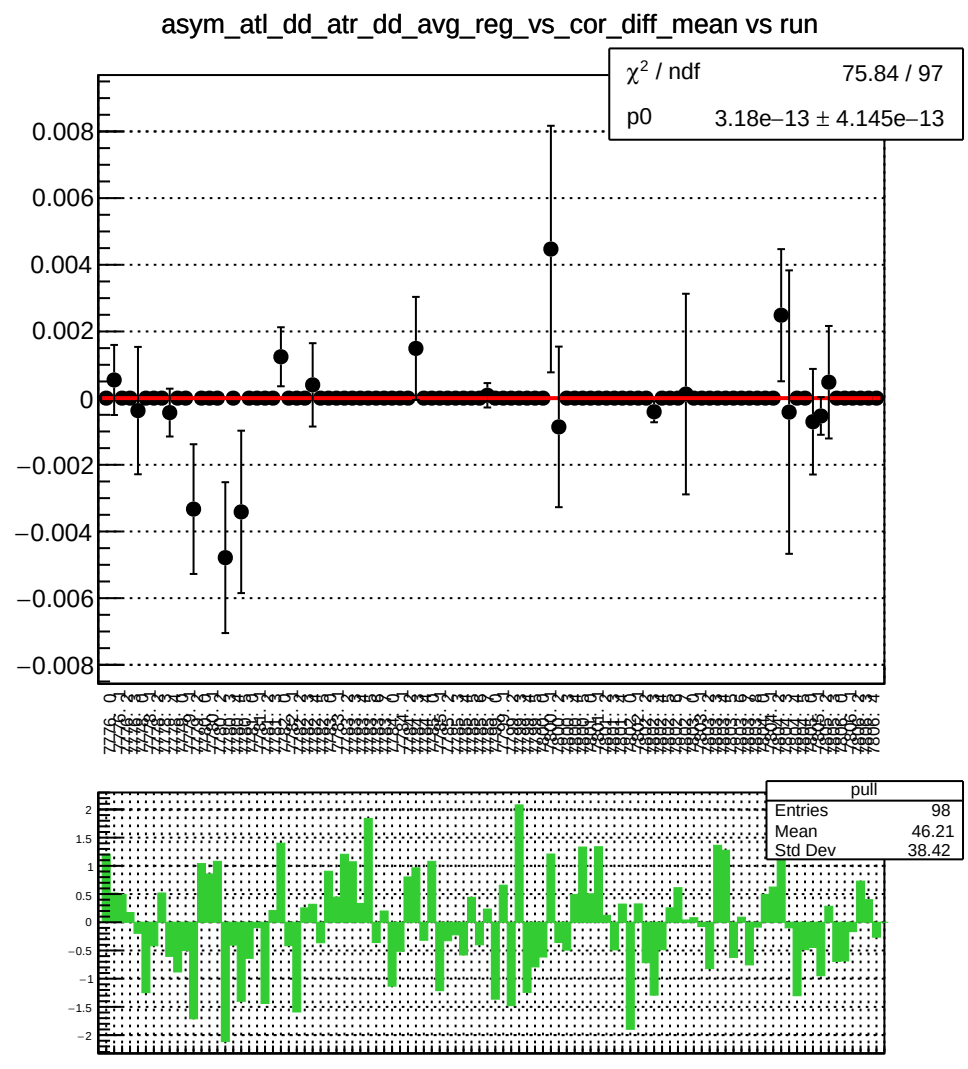

pull1D
Entries 98
Mean −0.01159
Std Dev 0.9171

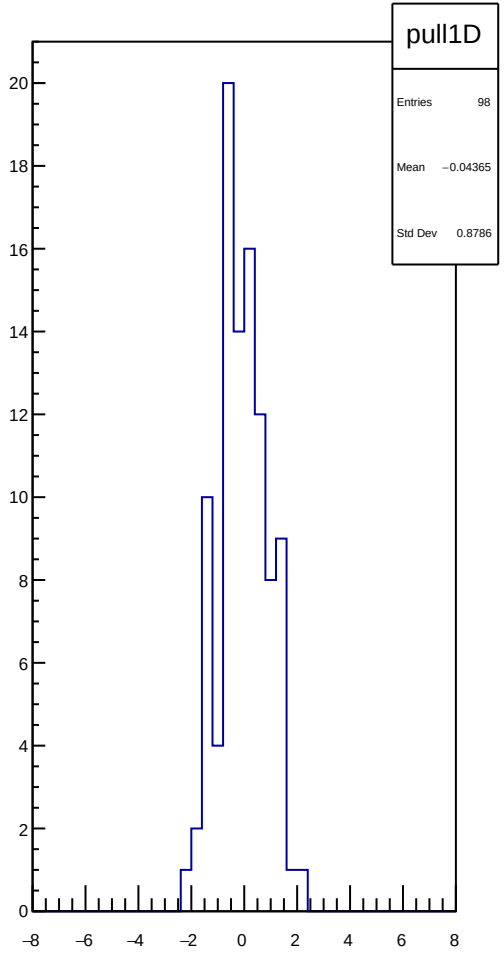

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5942 / 97
p0 5053 ± 3.631
6000
5800
5600
5400
5200
5000
4800
4600

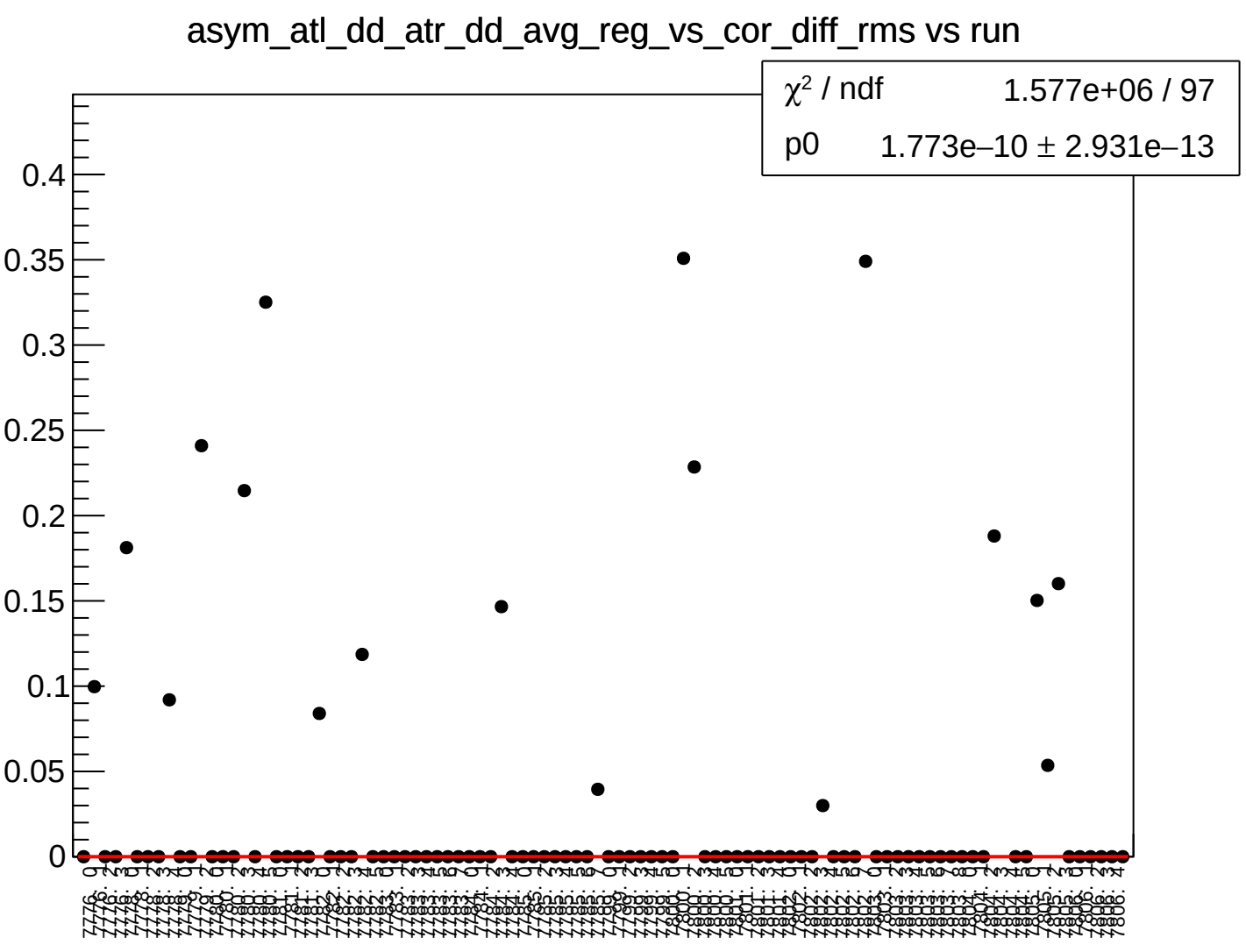

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 78.03 / 97
p0 4249 ± 5195
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 765.7
Std Dev 0
2
1
0
−1
−2

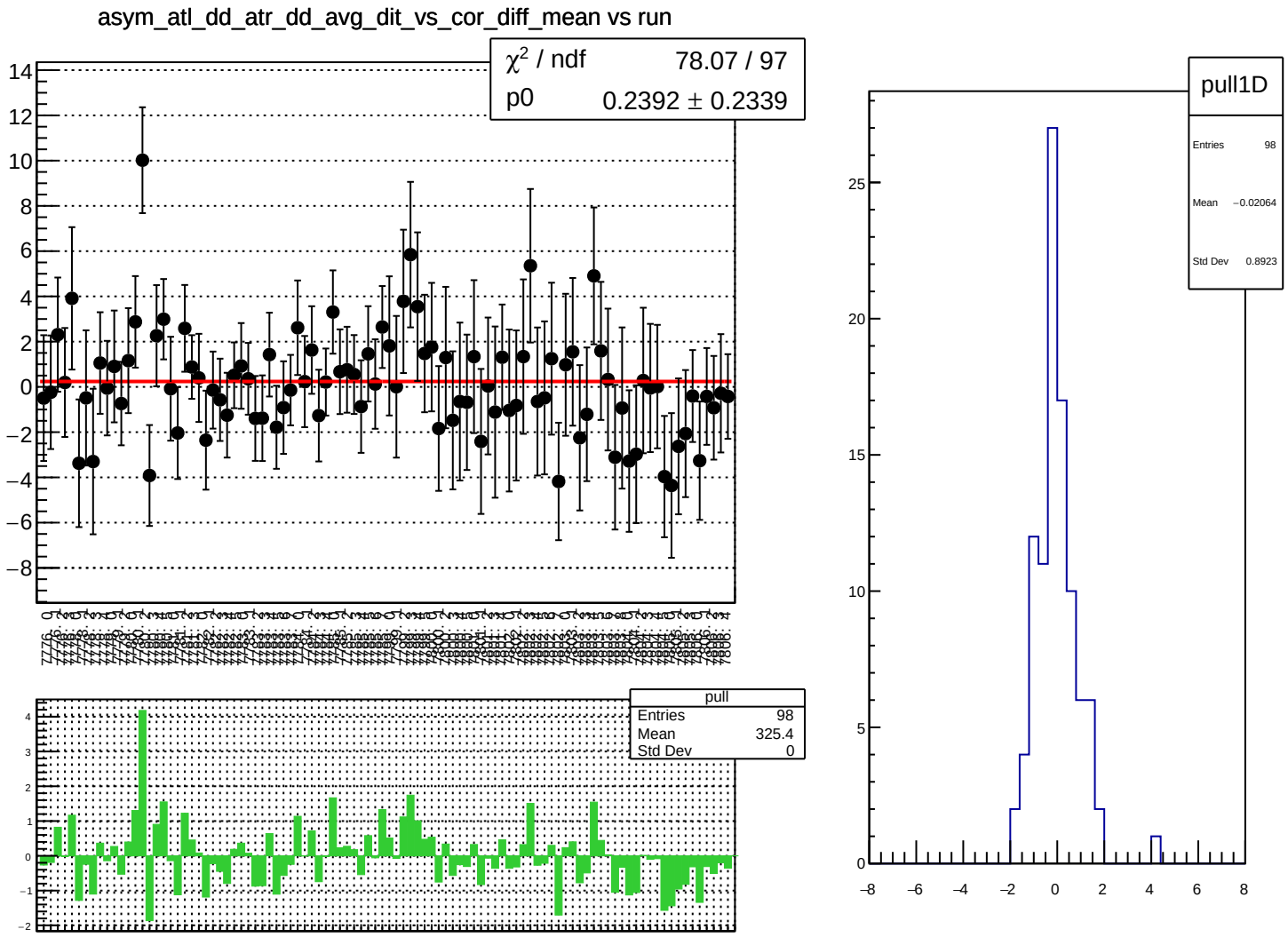

pull1D
Entries 98
Mean 0.007238
Std Dev 0.8923
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

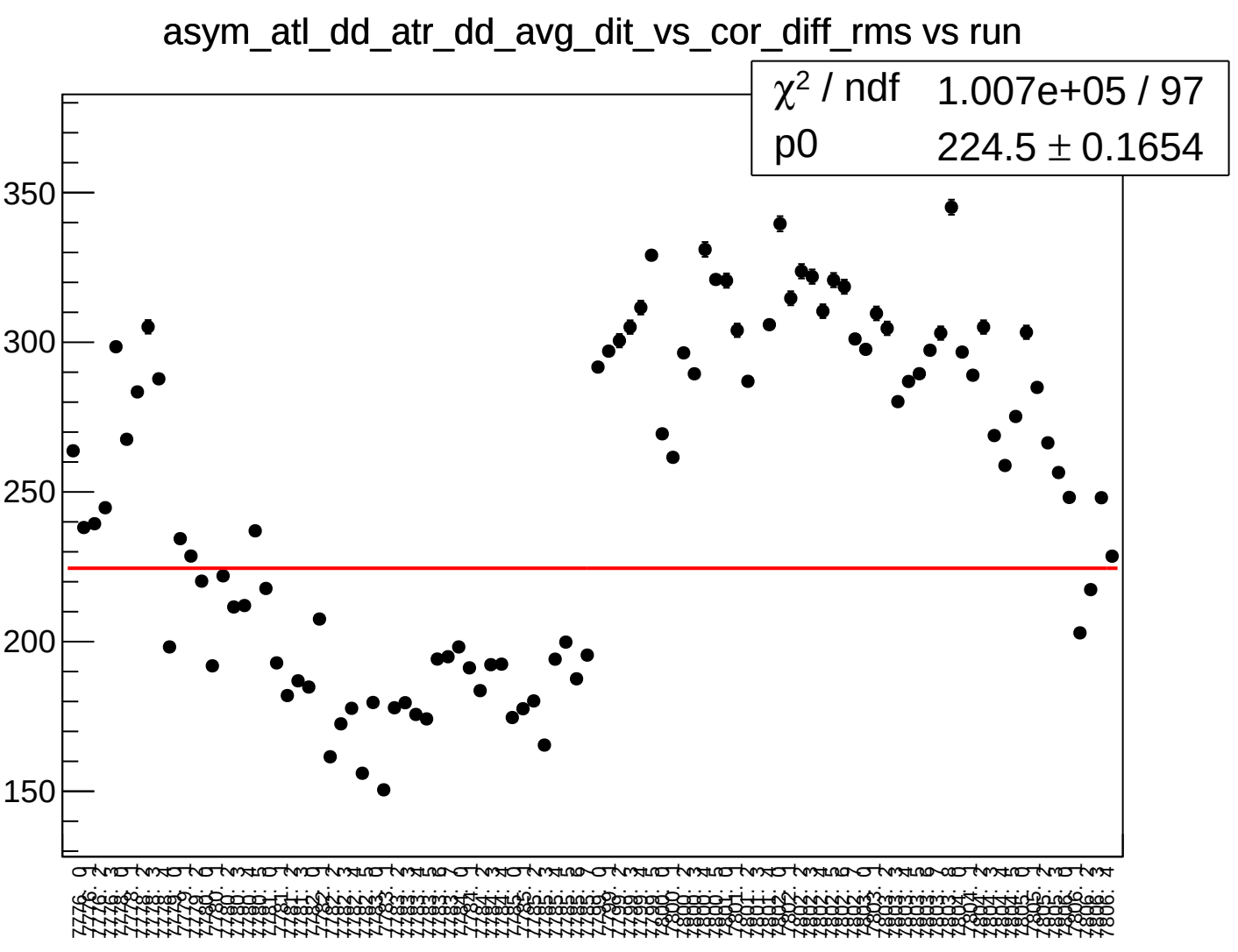

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3909 / 97
p0 5115 ± 3.673
5800
5600
5400
5200
5000
4800
4600

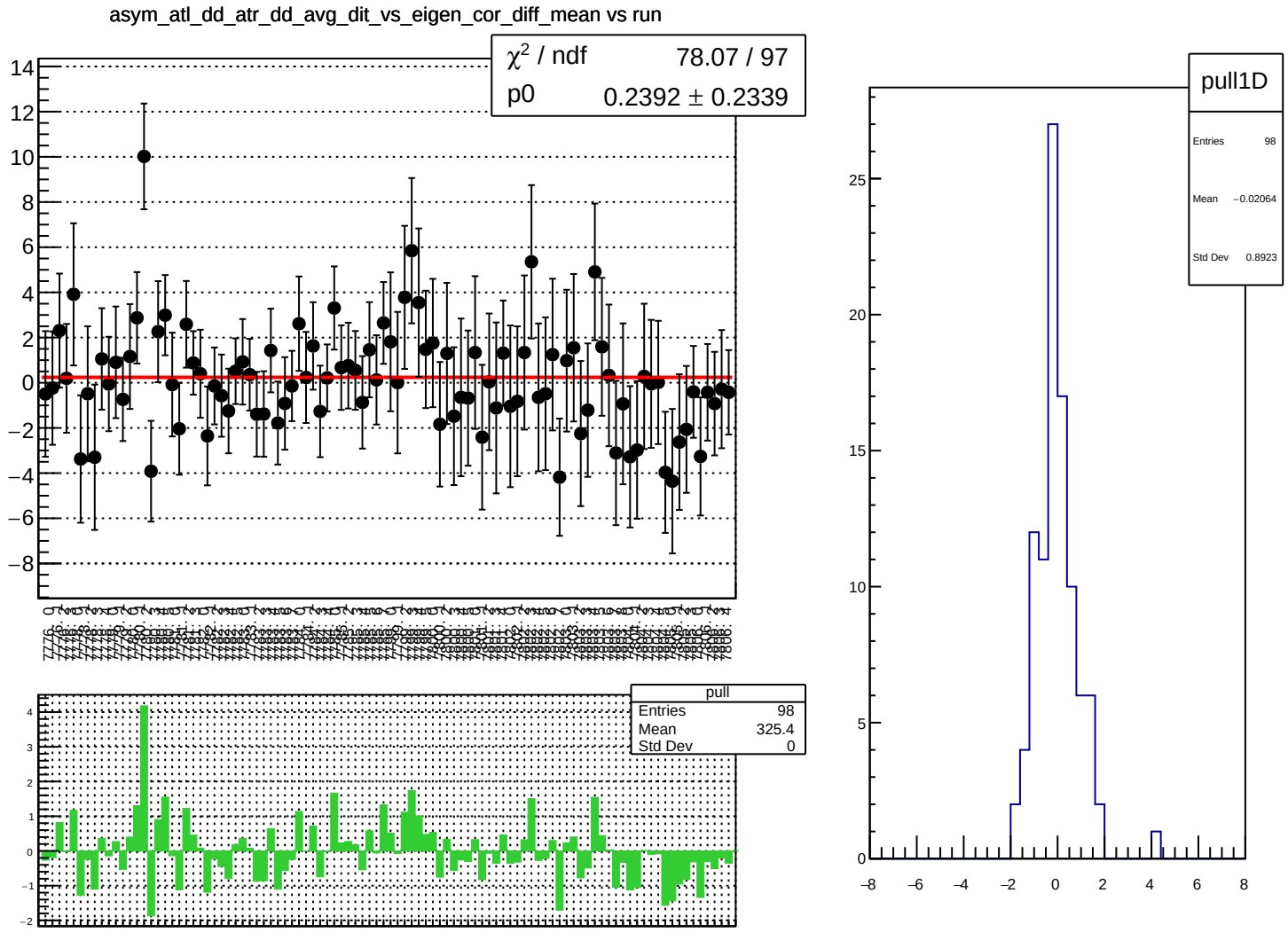

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.84 / 97
p0 3.18e−13 ± 4.145e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 98
Mean 46.21
Std Dev 38.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

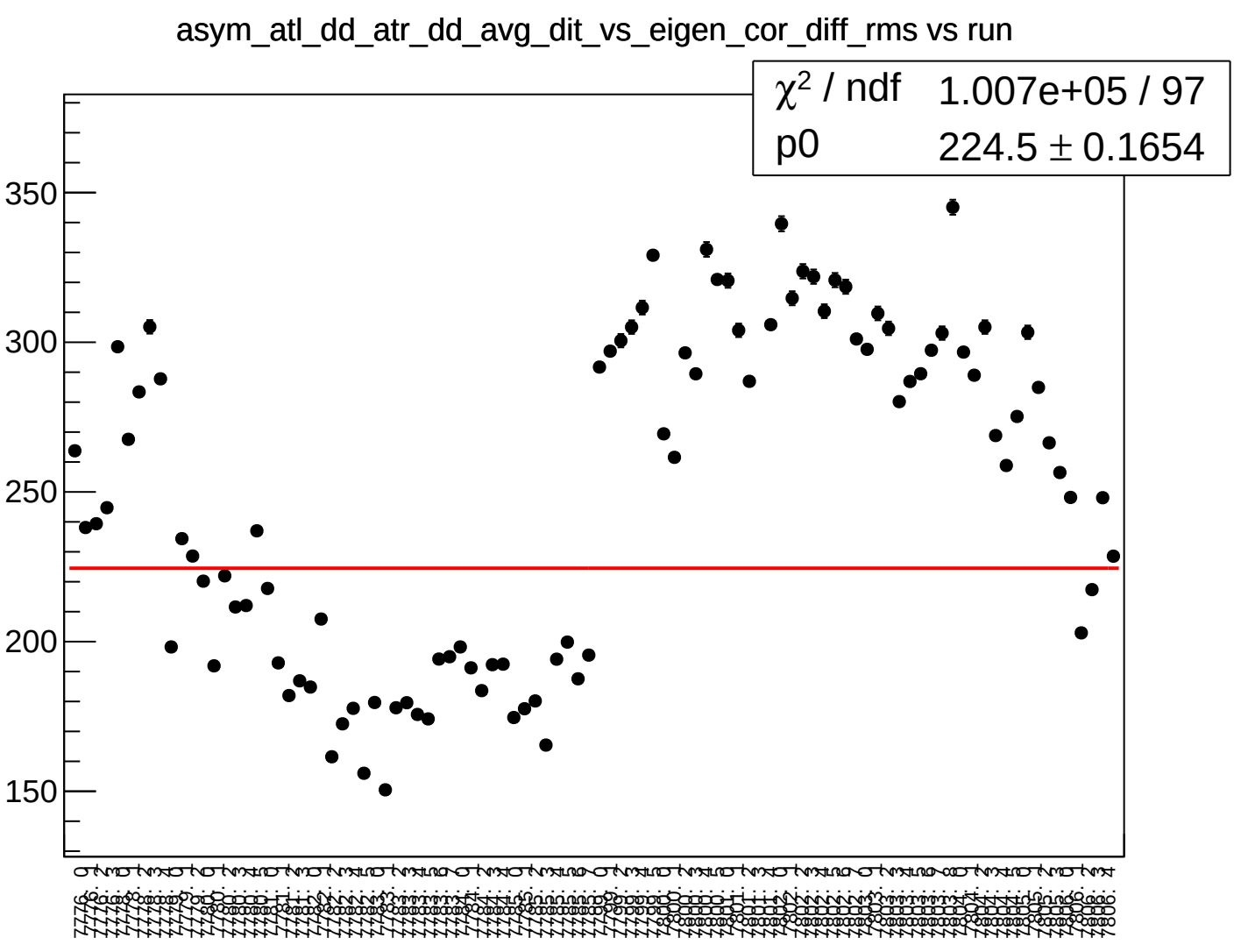

pull1D
Entries 98
Mean −0.04365
Std Dev 0.8786
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

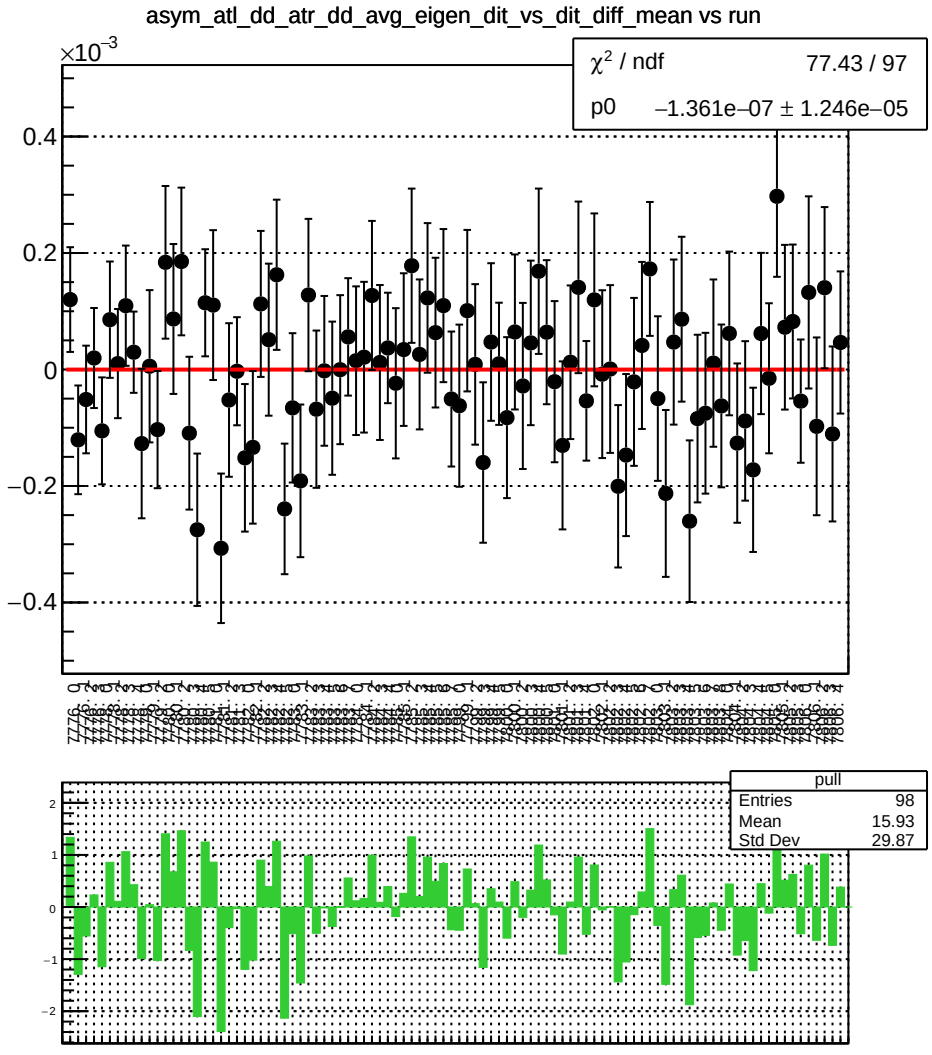

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.577e+06 / 97
p0 1.773e−10 ± 2.931e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

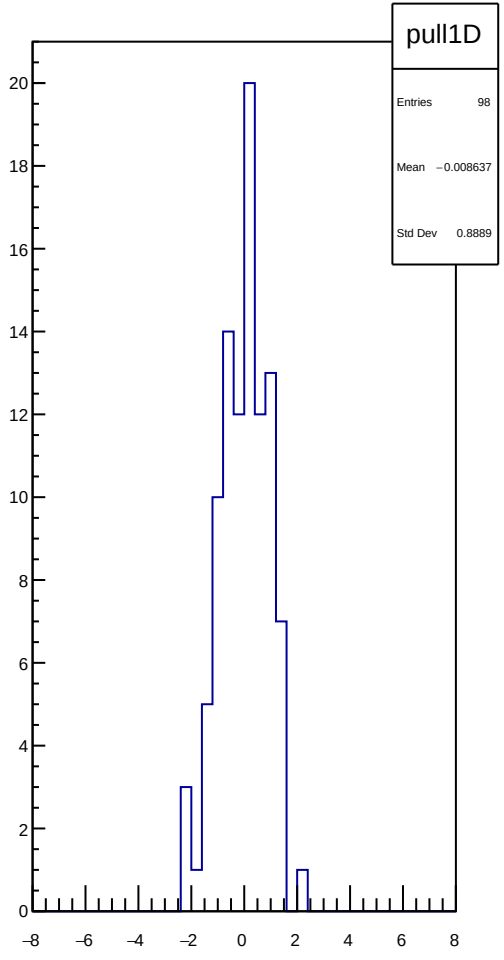

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.07 / 97
p0 0.2392 ± 0.2339
pull
Entries 98
Mean 325.4
Std Dev 0
pull1D
Entries 98
Mean −0.02064
Std Dev 0.8923

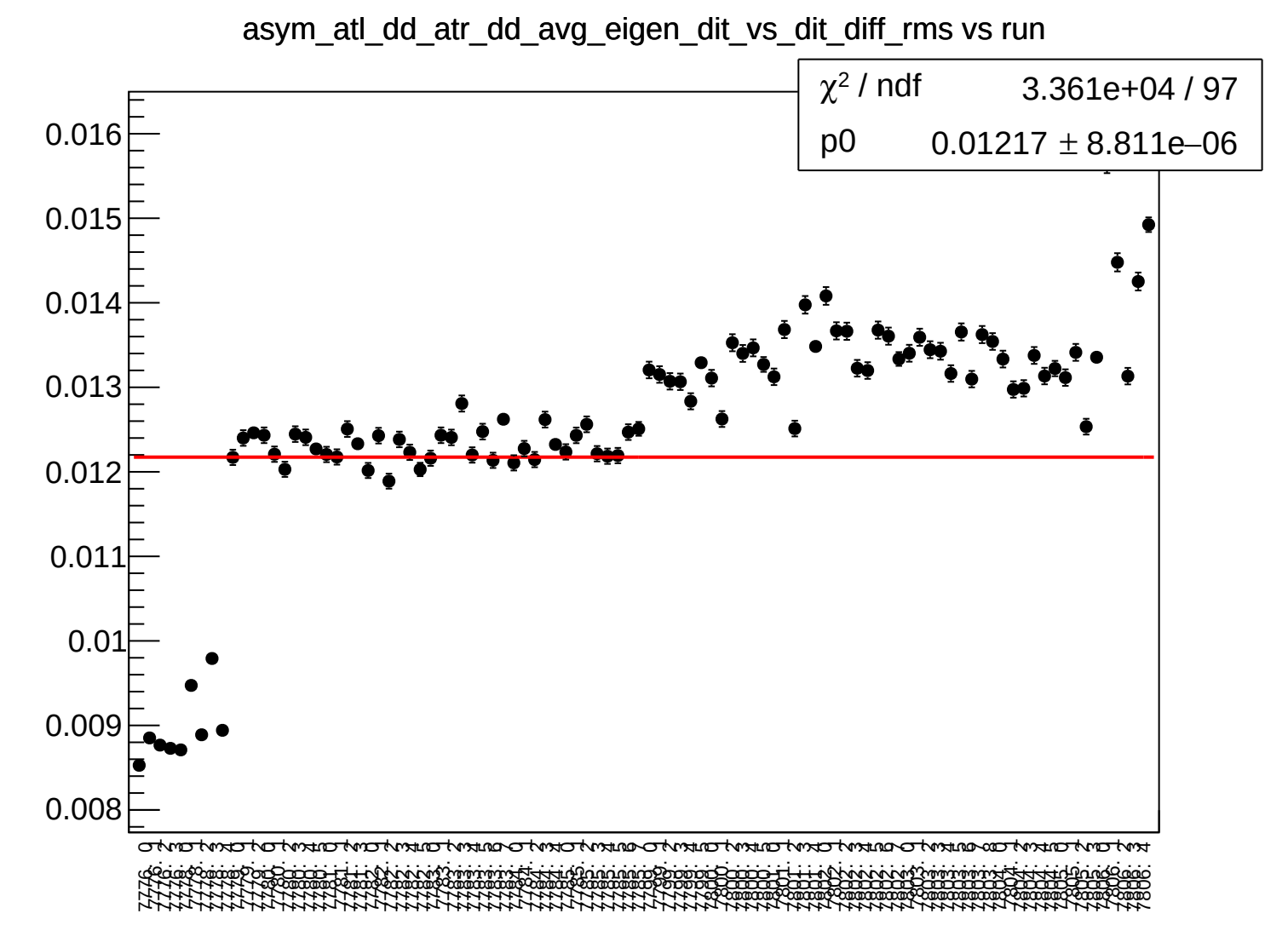

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 97
p0 224.5 ± 0.1654
350
300
250
200
150

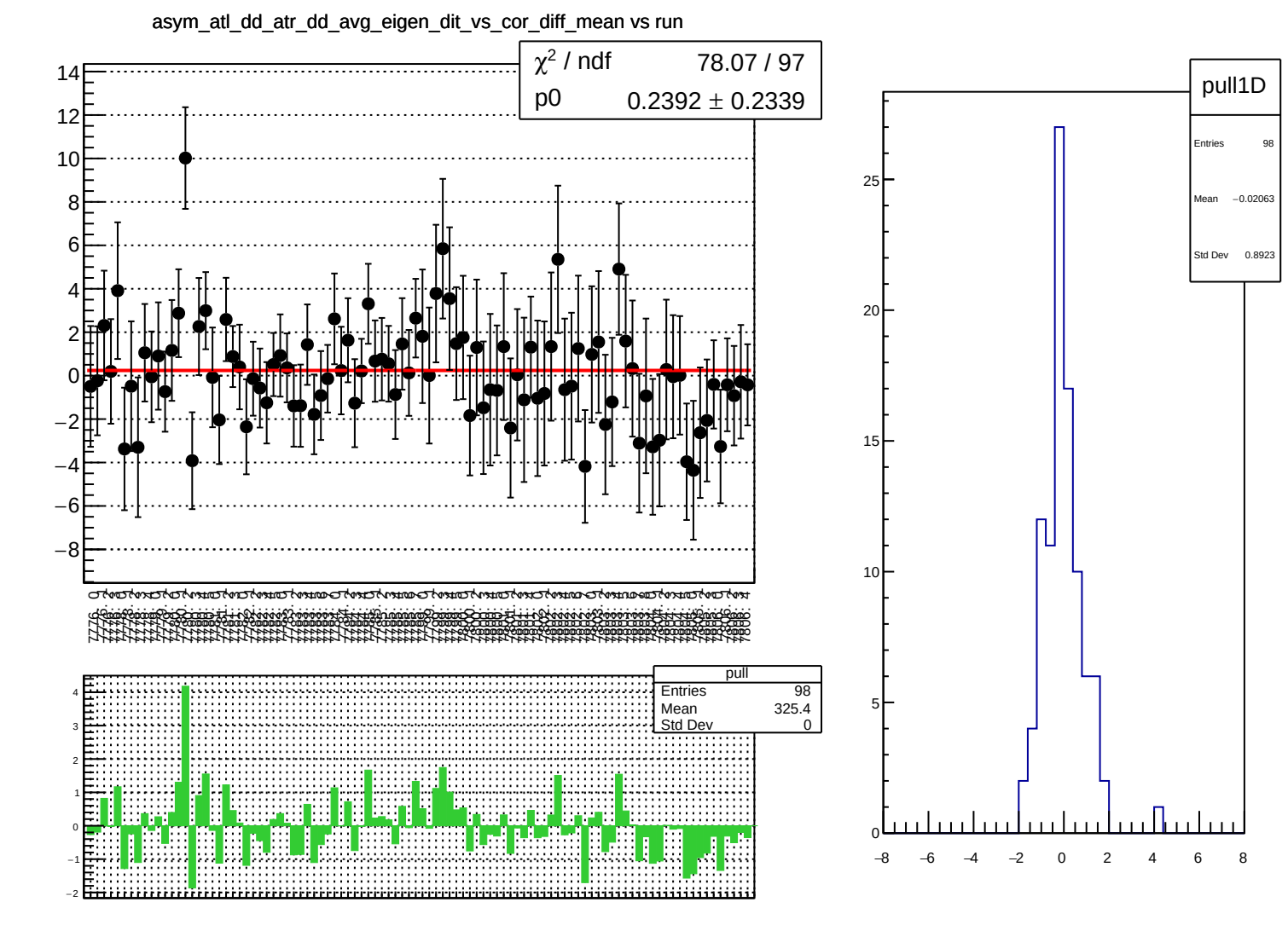

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.07 / 97
p0 0.2392 ± 0.2339
pull
Entries 98
Mean 325.4
Std Dev 0
pull1D
Entries 98
Mean −0.02064
Std Dev 0.8923

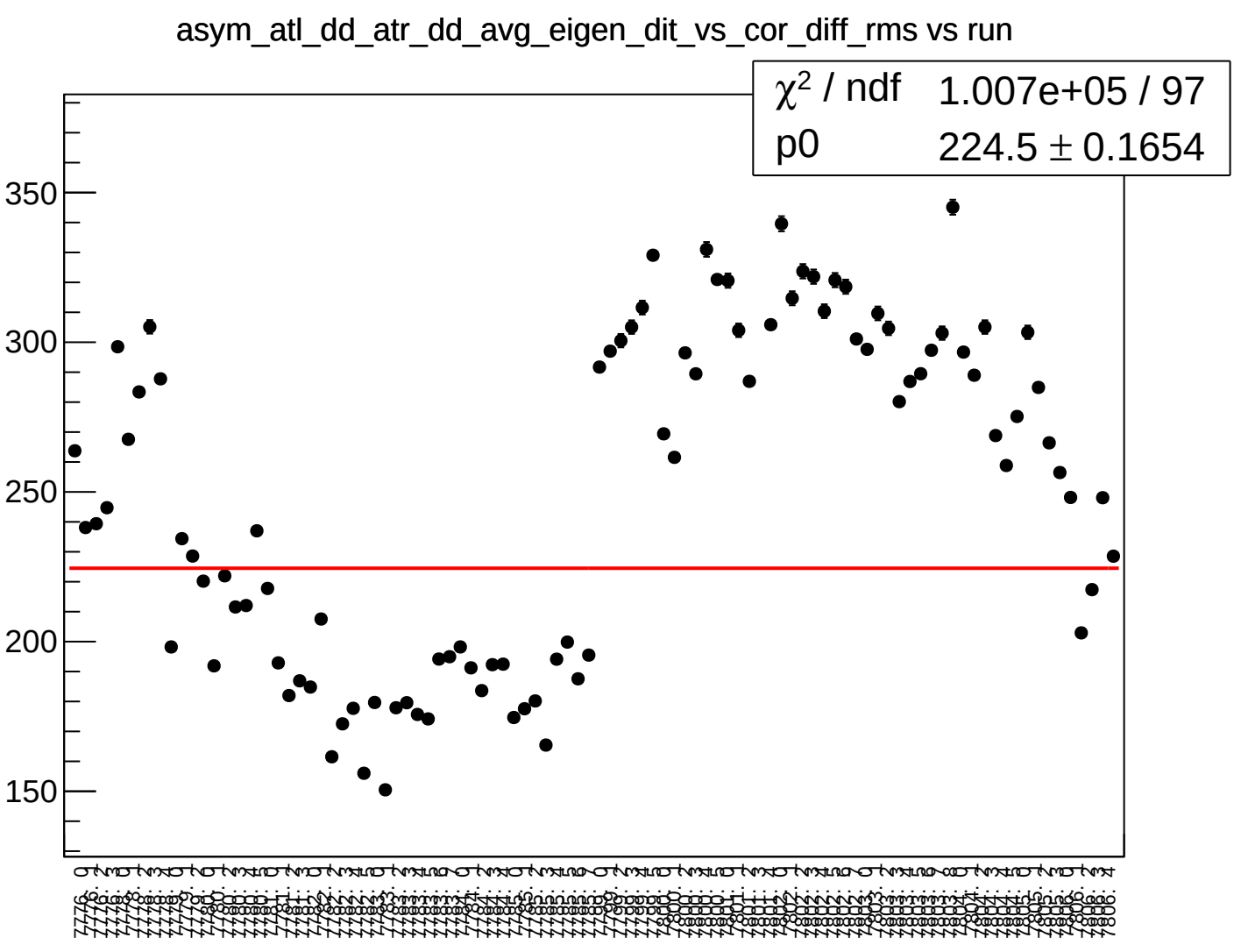

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 97
p0 224.5 ± 0.1654
350
300
250
200
150

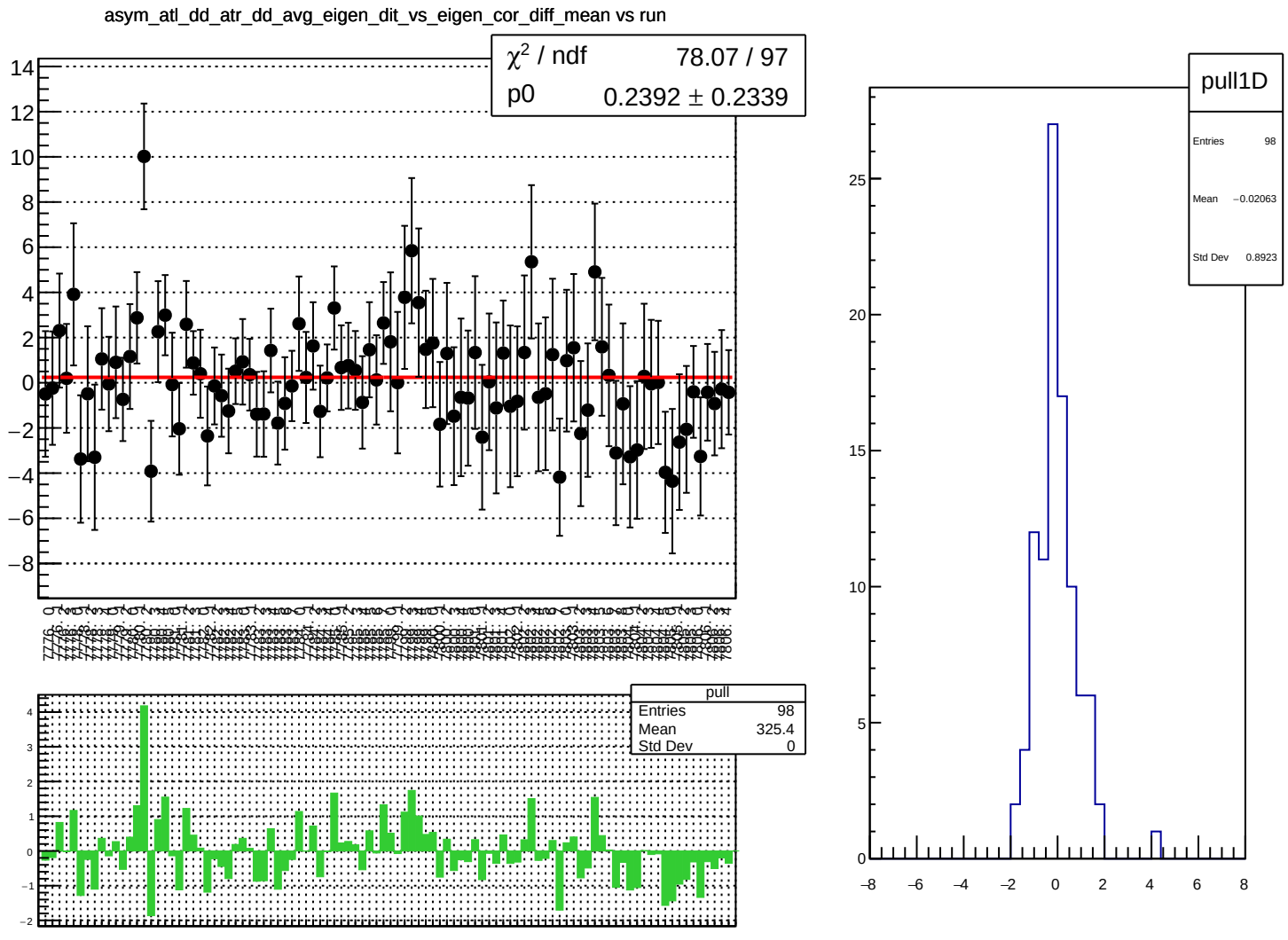

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.43 / 97
p0 −1.361e−07 ± 1.246e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 98
Mean 15.93
Std Dev 29.87
2
1
0
−1
−2

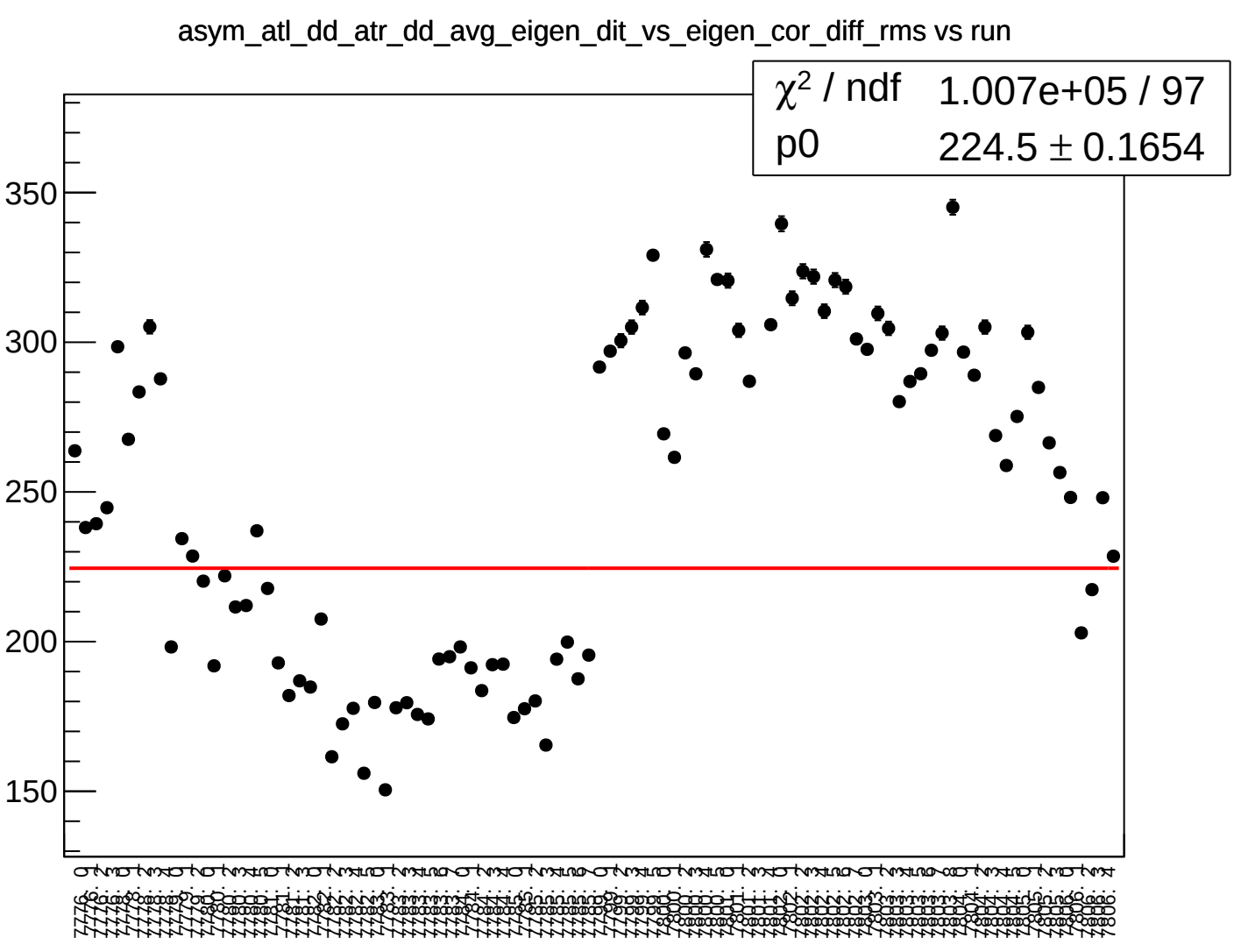

pull1D
Entries 98
Mean −0.008637
Std Dev 0.8889
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

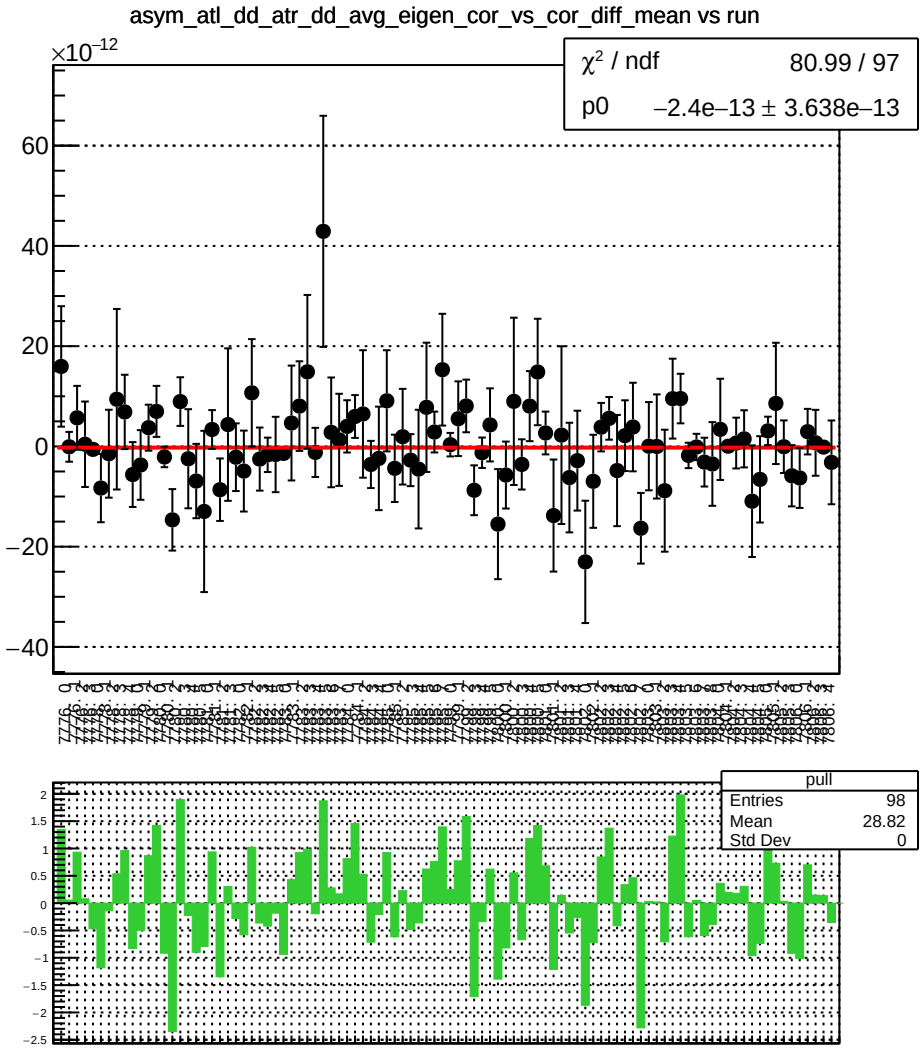

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.361e+04 / 97
p0 0.01217 ± 8.811e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

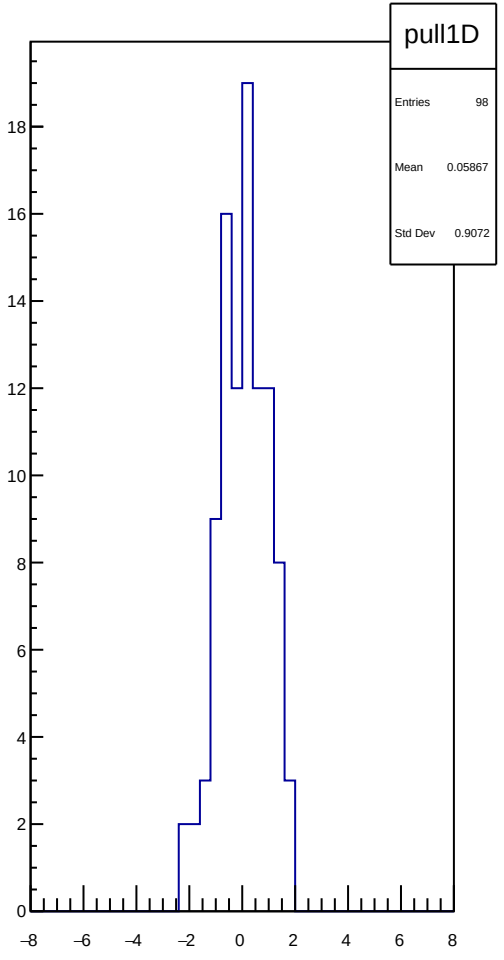

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.07 / 97
p0 0.2392 ± 0.2339
pull
Entries 98
Mean 325.4
Std Dev 0
pull1D
Entries 98
Mean −0.02063
Std Dev 0.8923

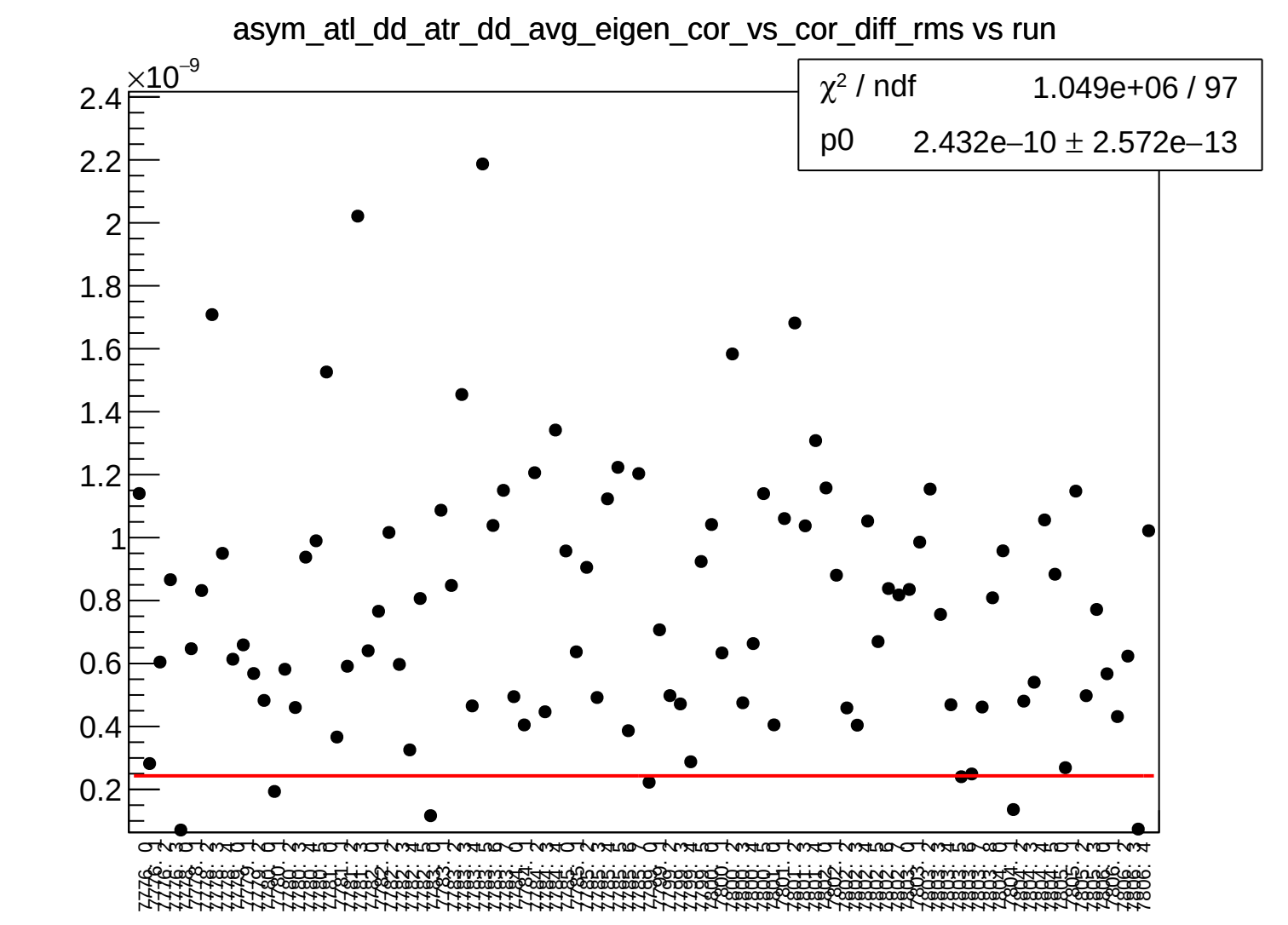

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 97
p0 224.5 ± 0.1654
350
300
250
200
150

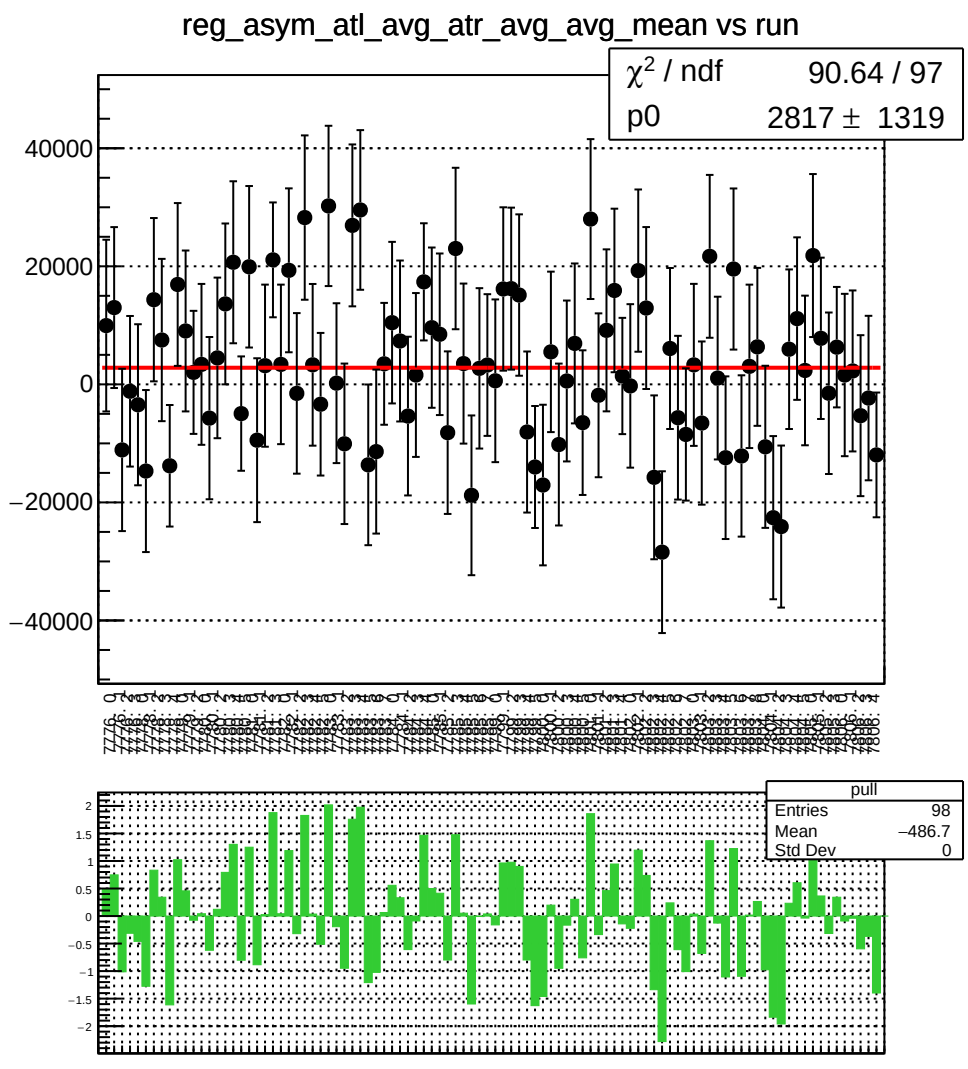

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.07 / 97
p0 0.2392 ± 0.2339
pull
Entries 98
Mean 325.4
Std Dev 0
pull1D
Entries 98
Mean −0.02063
Std Dev 0.8923

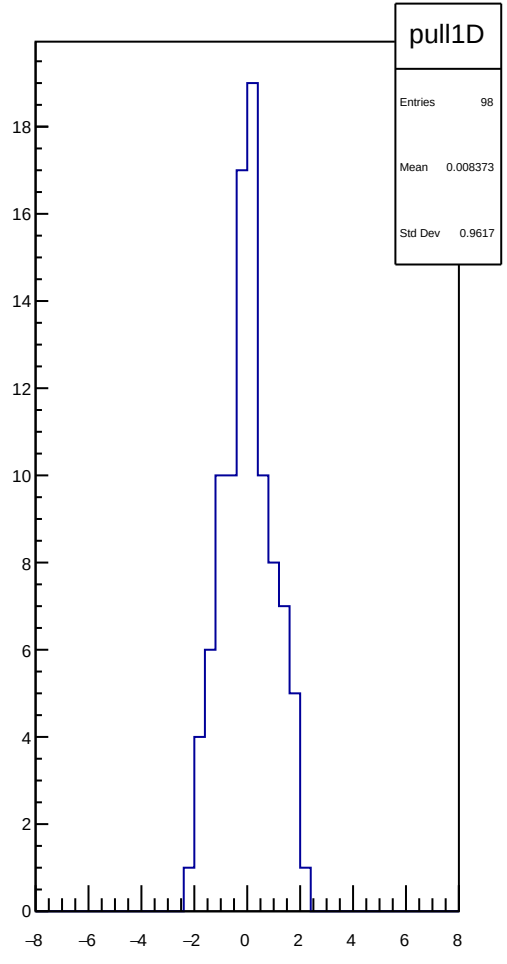

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 97
p0 224.5 ± 0.1654
350
300
250
200
150

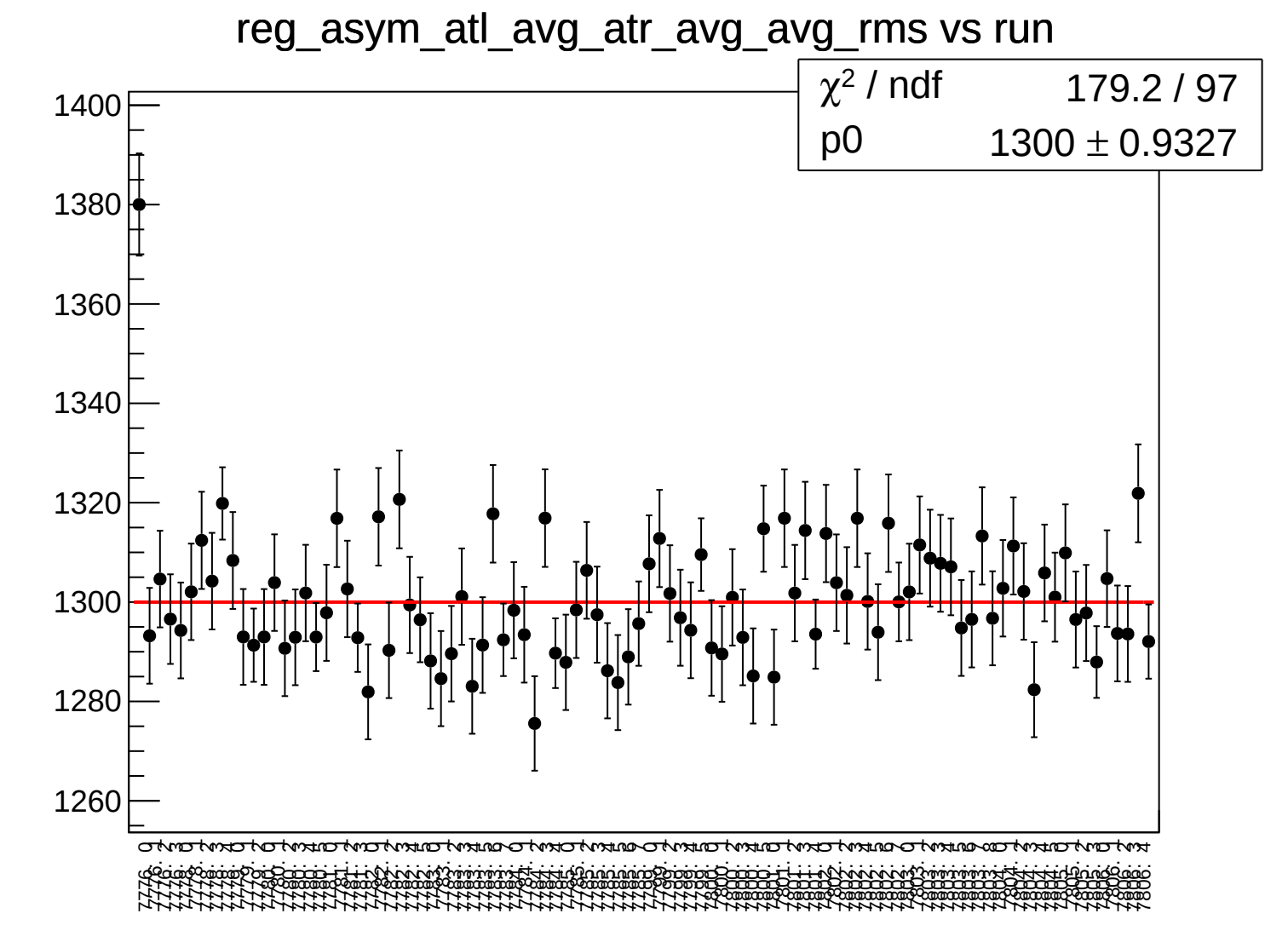

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.99 / 97
p0 −2.4e−13 ± 3.638e−13
pull
Entries 98
Mean 28.82
Std Dev 0

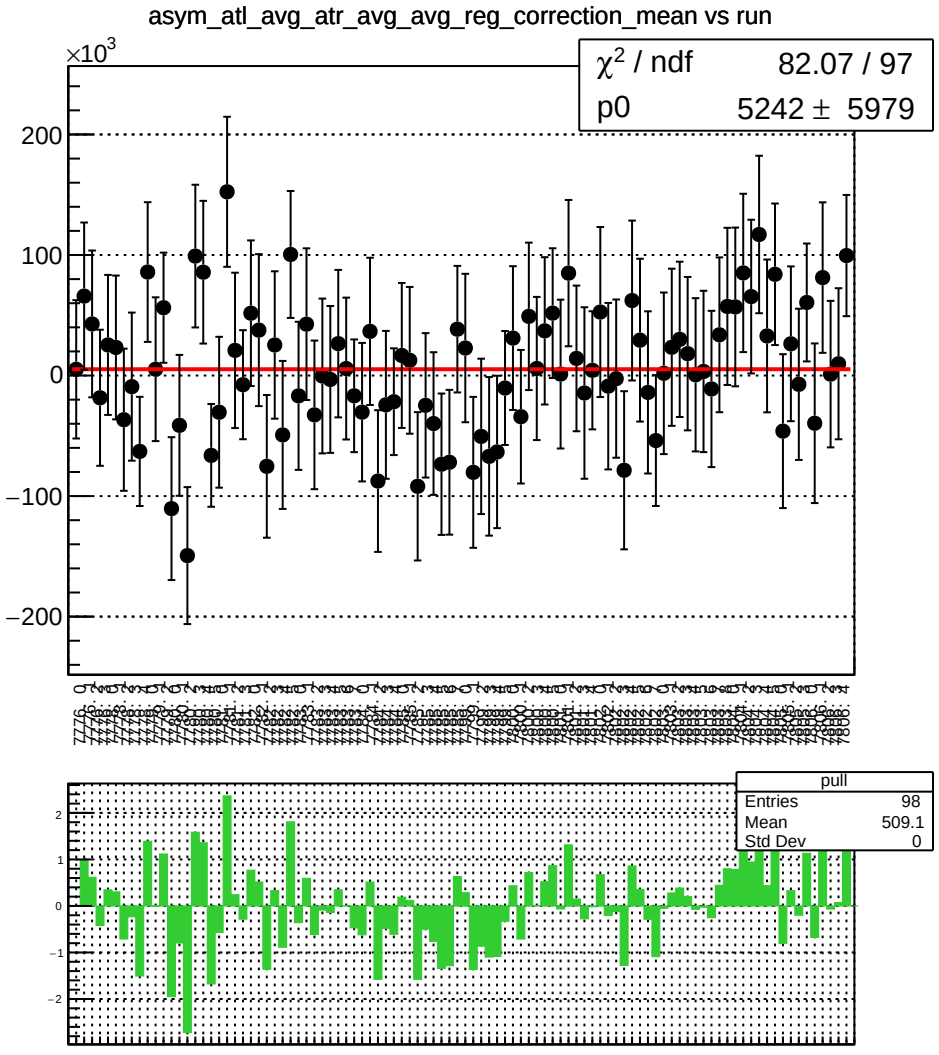

pull1D
Entries 98
Mean 0.05867
Std Dev 0.9072

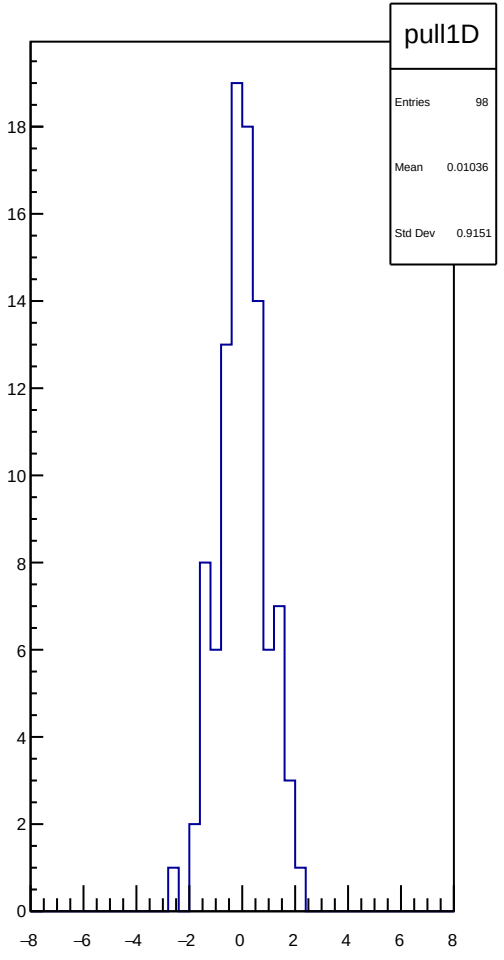

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.049e+06 / 97
p0 2.432e−10 ± 2.572e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

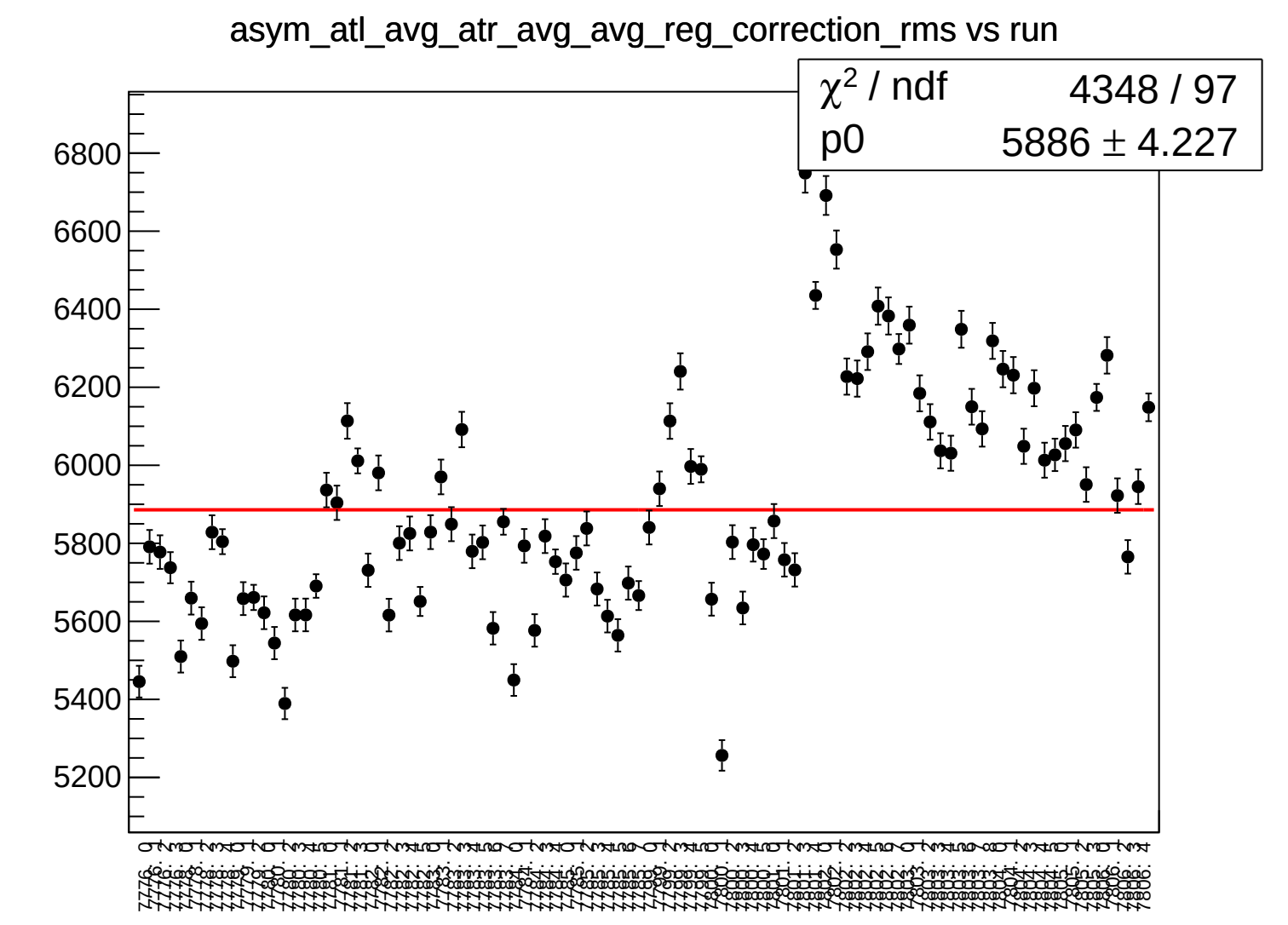

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.64 / 97
p0 2817 ± 1319
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −486.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

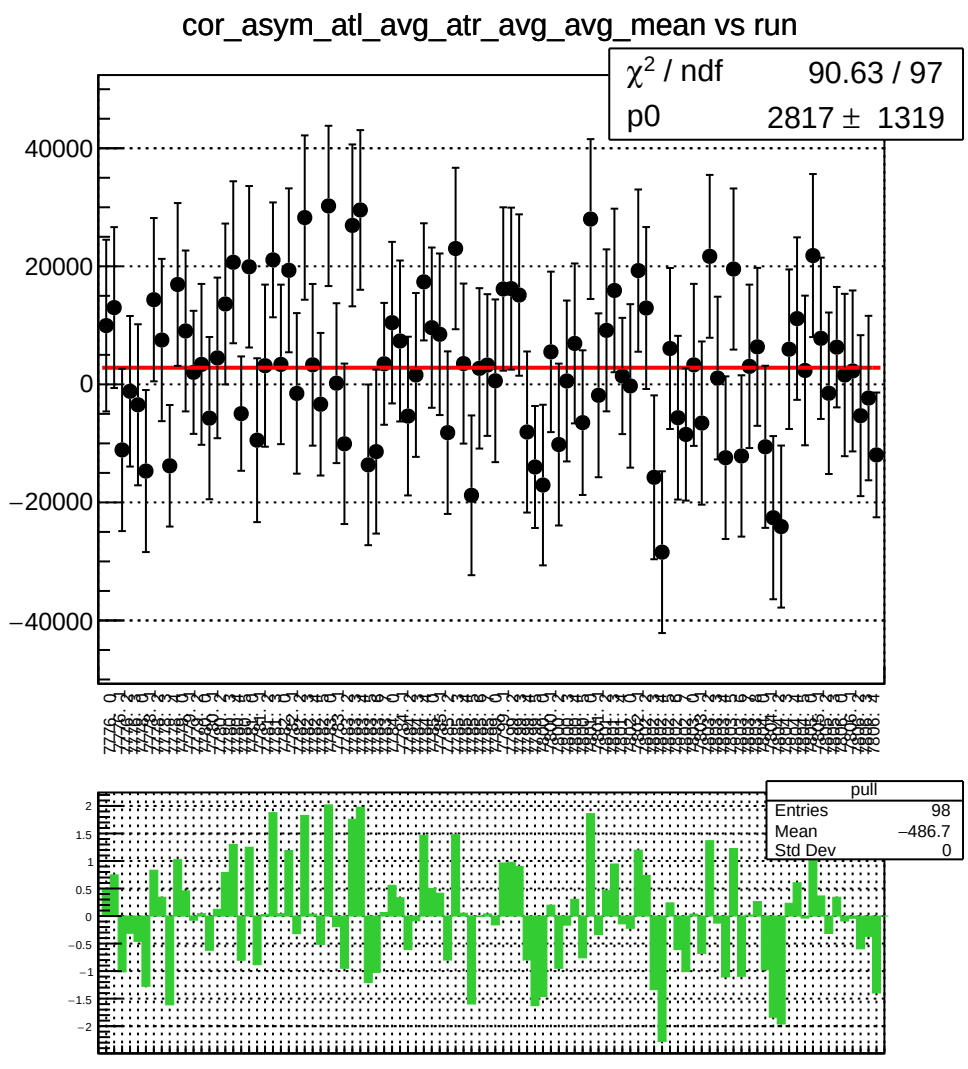

pull1D
Entries 98
Mean 0.008373
Std Dev 0.9617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

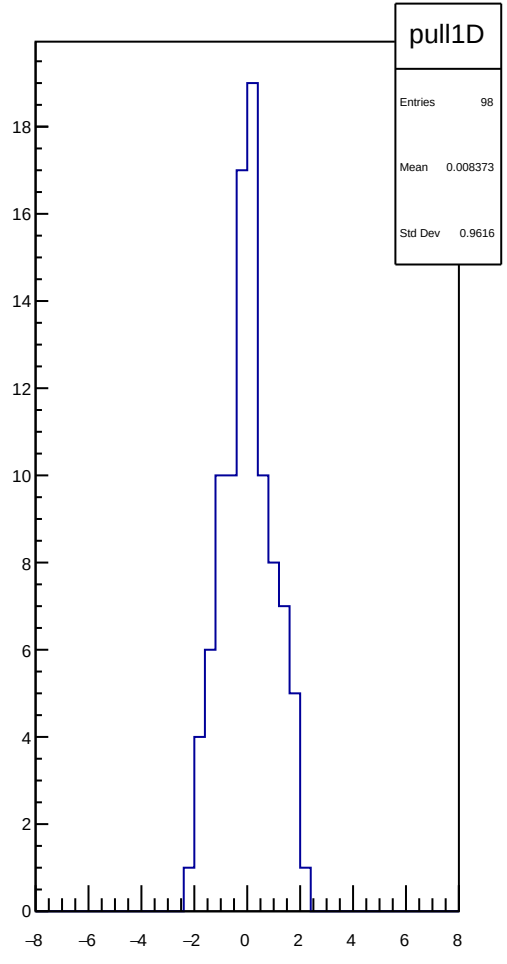

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 179.2 / 97
p0 1300 ± 0.9327
1400
1380
1360
1340
1320
1300
1280
1260

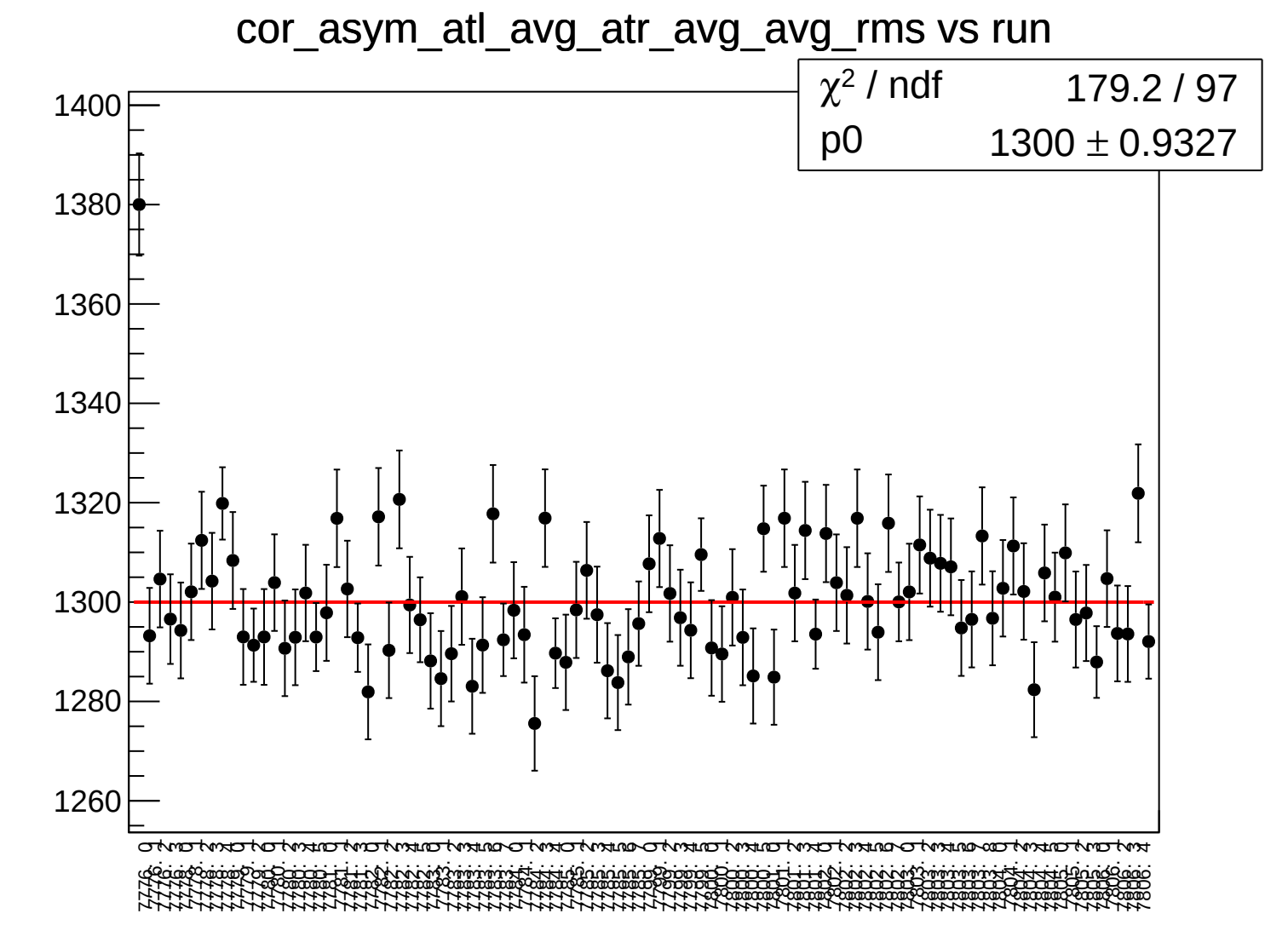

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.07 / 97
p0 5242 ± 5979
200
100
0
−100
−200
pull
Entries 98
Mean 509.1
Std Dev 0
2
1
0
−1
−2

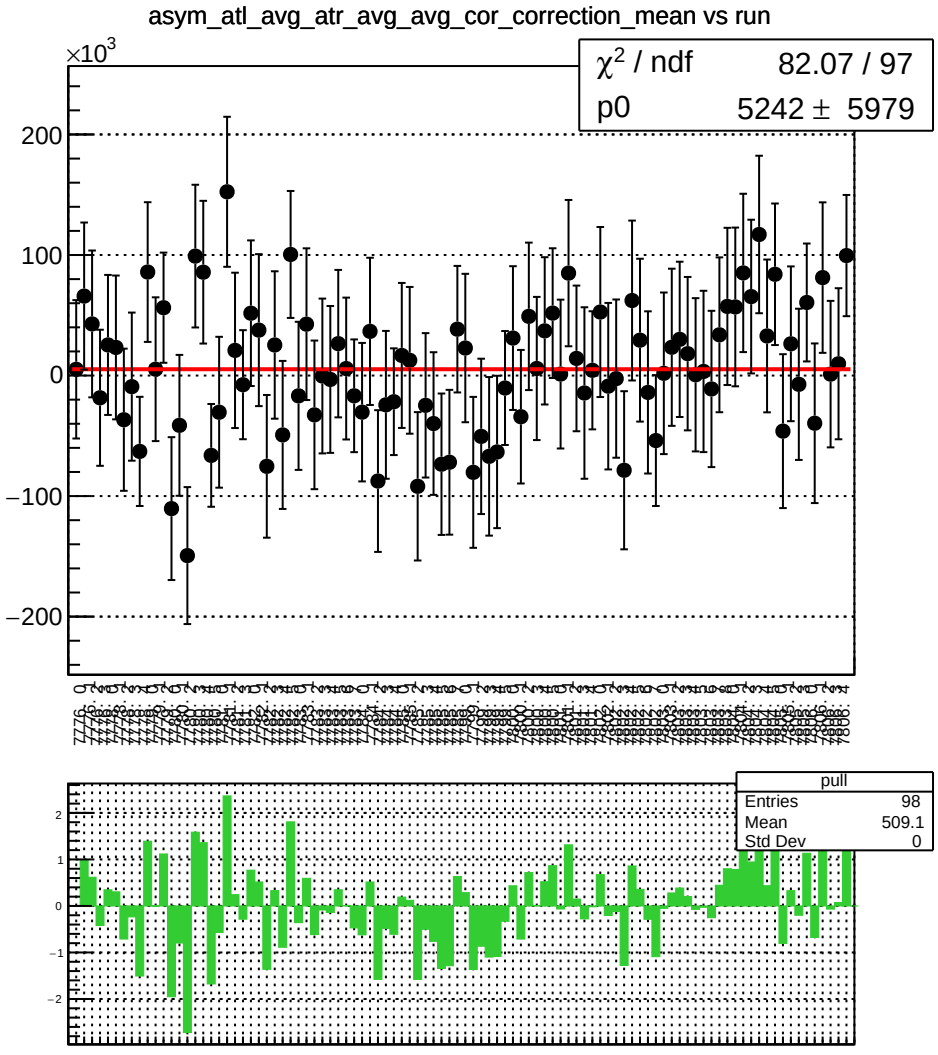

pull1D
Entries 98
Mean 0.01036
Std Dev 0.9151
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

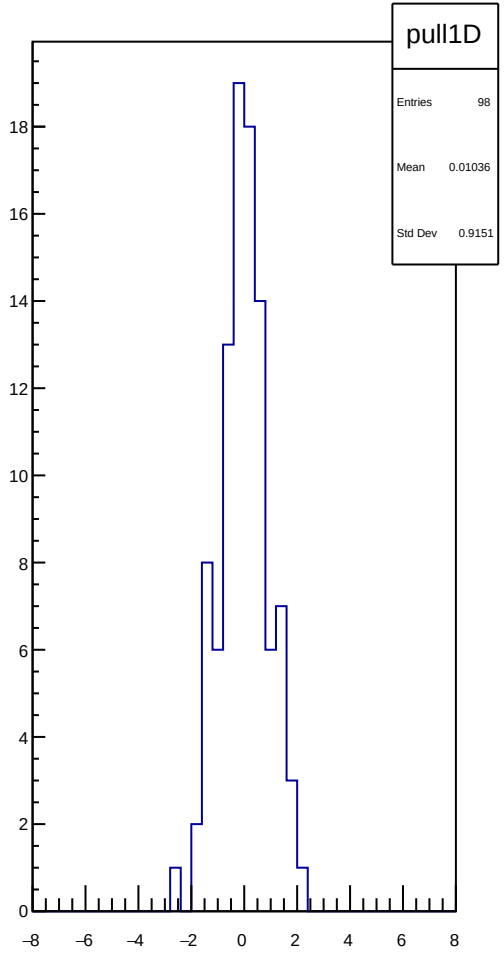

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 4348 / 97
p0 5886 ± 4.227
6800
6600
6400
6200
6000
5800
5600
5400
5200

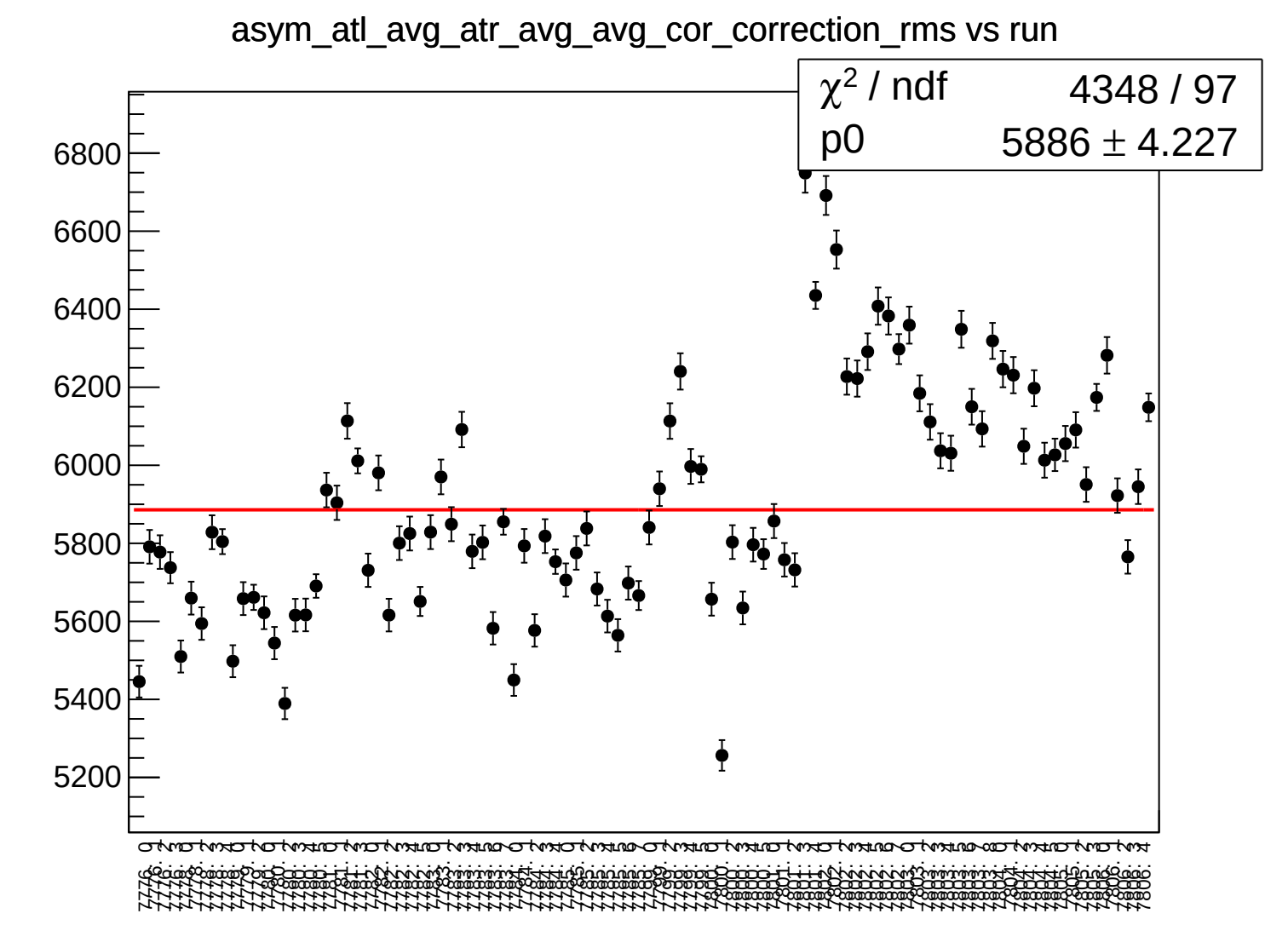

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.63 / 97
p0 2817 ± 1319
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −486.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

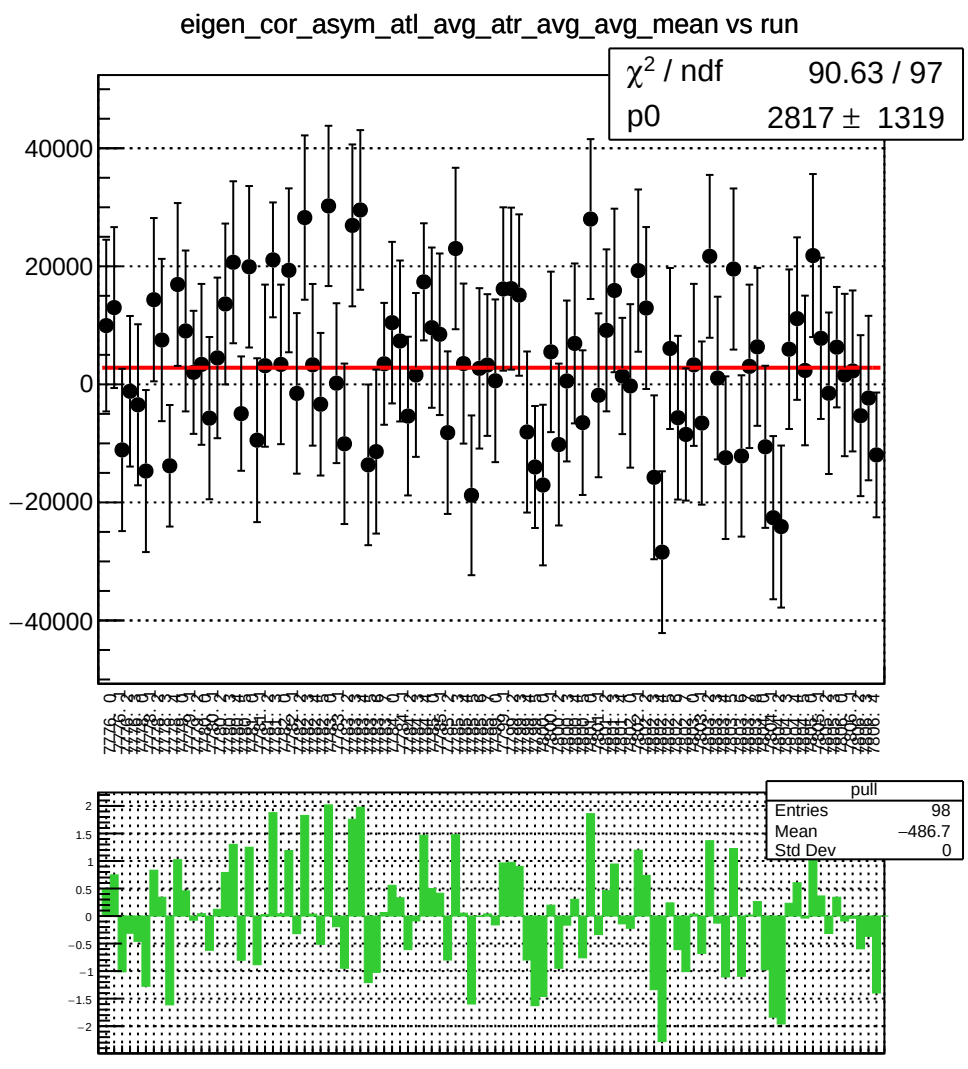

pull1D
Entries 98
Mean 0.008373
Std Dev 0.9616
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

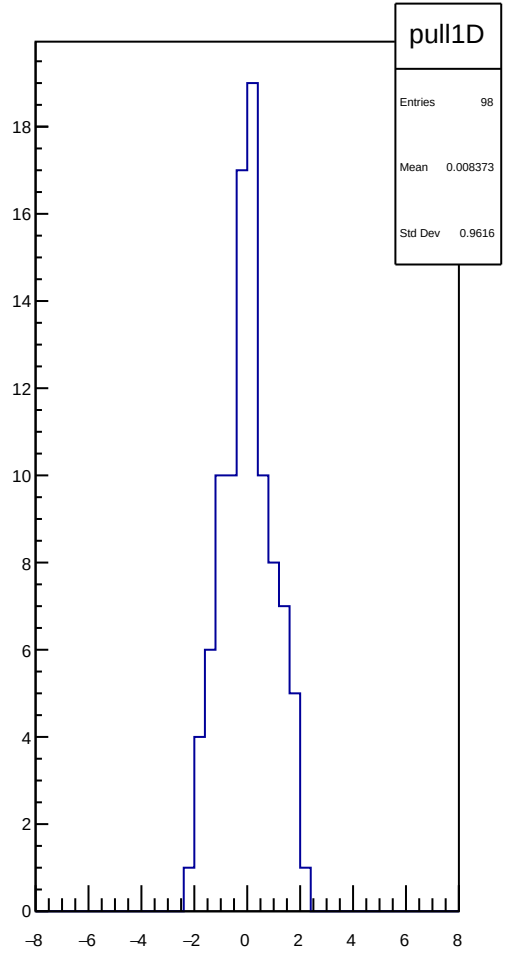

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 179.2 / 97
p0 1300 ± 0.9327
1400
1380
1360
1340
1320
1300
1280
1260

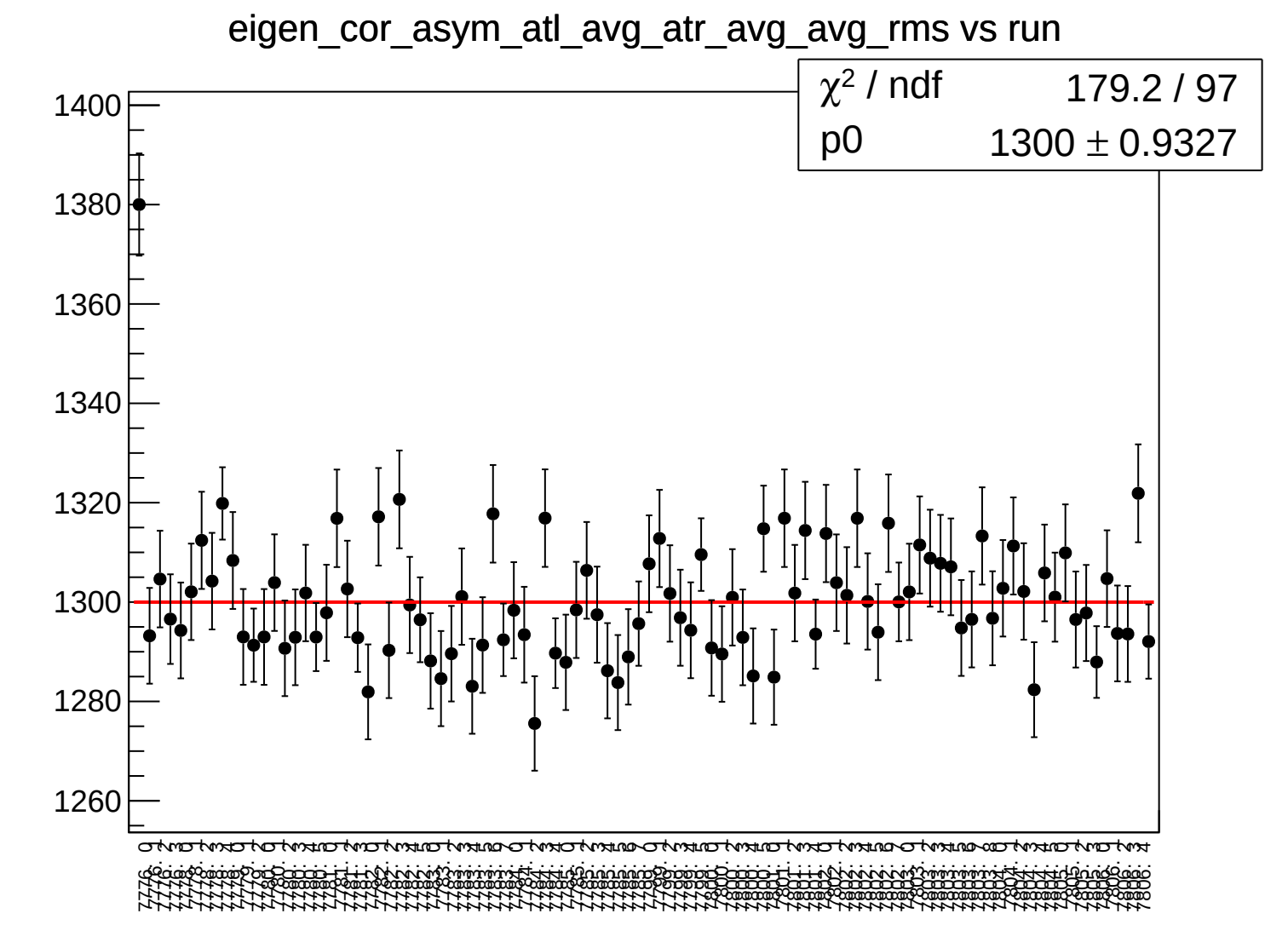

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
χ² / ndf 82.07 / 97
p0 5242 ± 5979
×10³
200
100
0
−100
−200
pull
Entries 98
Mean 509.1
Std Dev 0
2
1
0
−1
−2

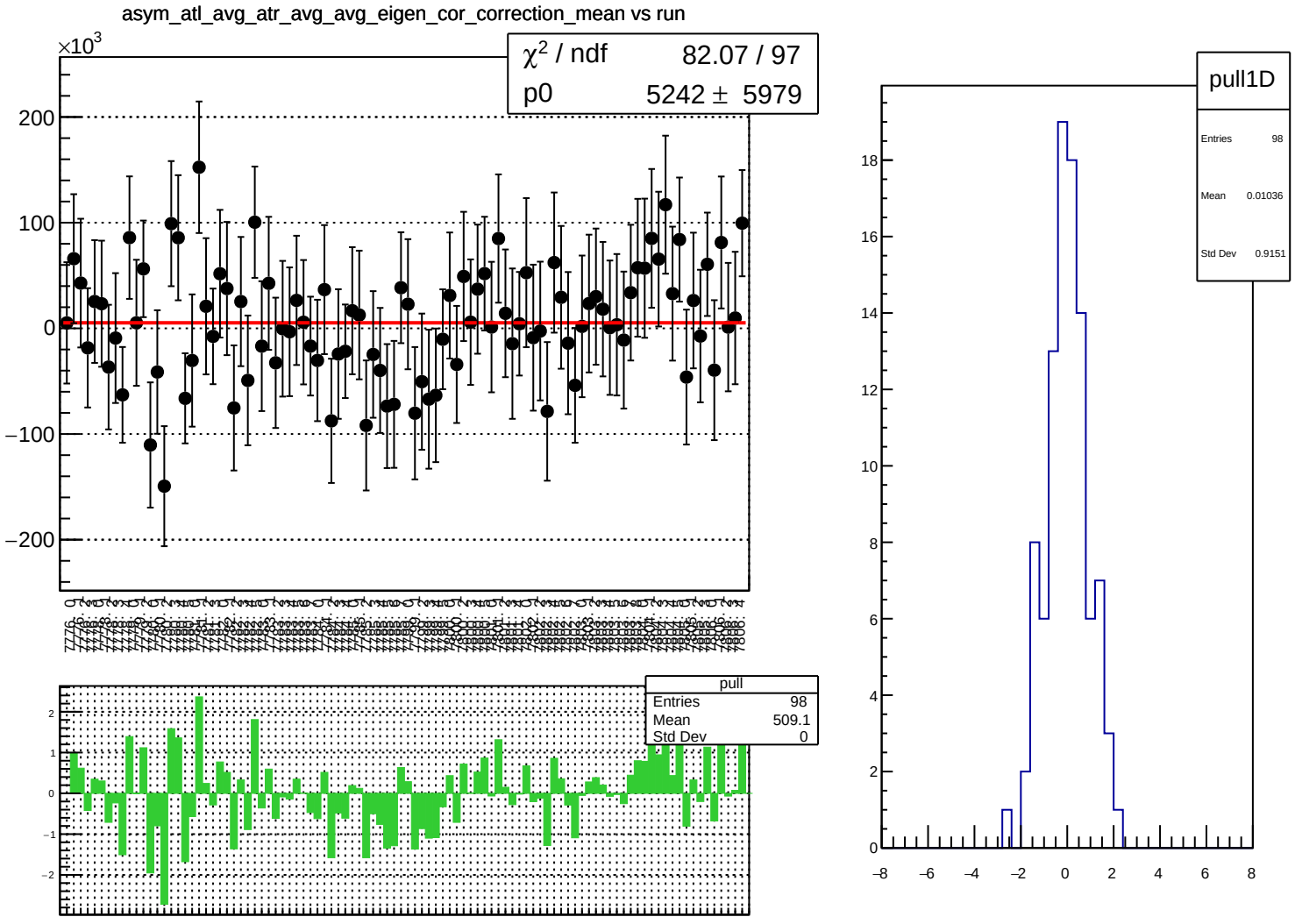

pull1D
Entries 98
Mean 0.01036
Std Dev 0.9151
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

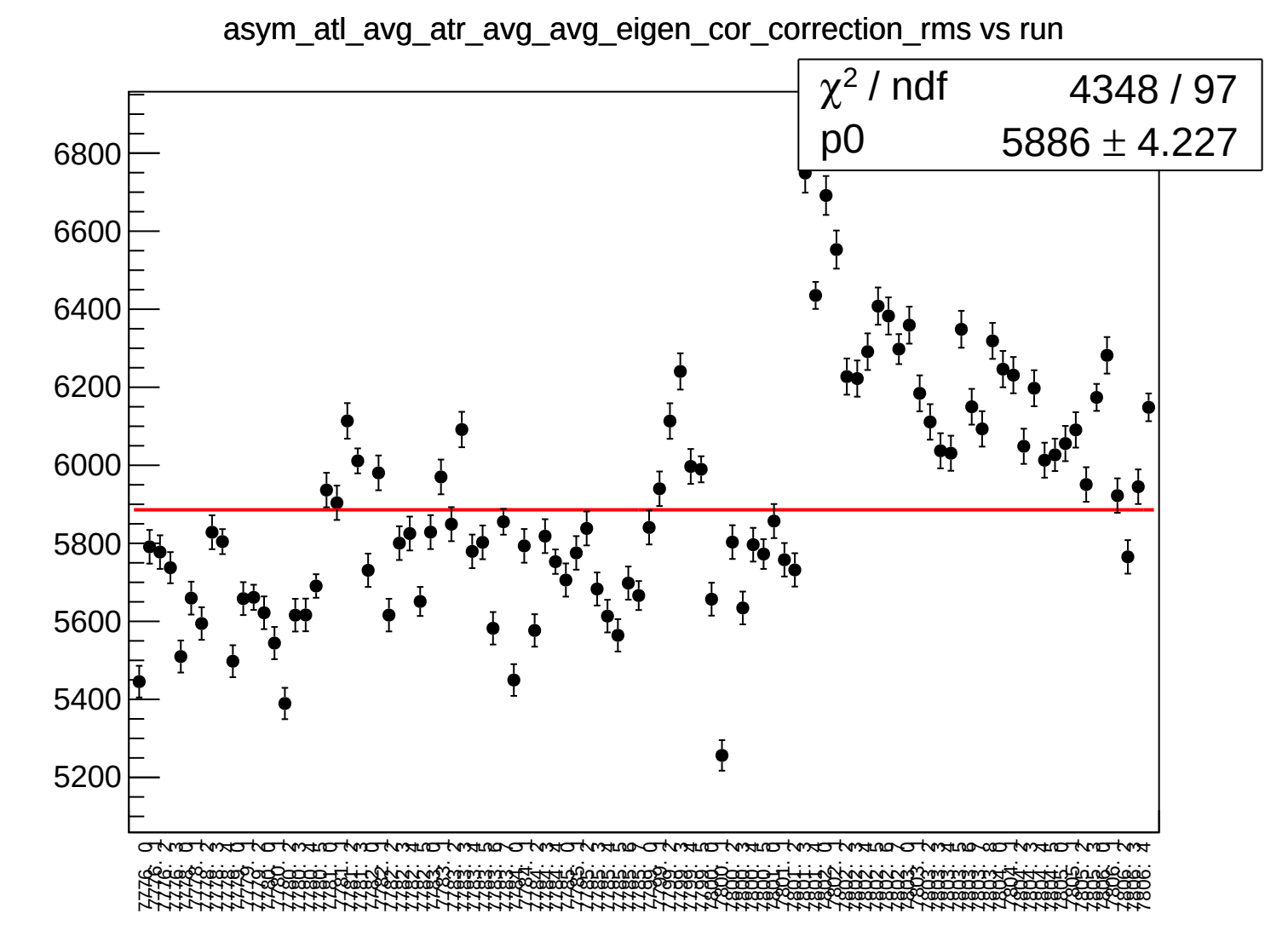

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 4348 / 97
p0 5886 ± 4.227
6800
6600
6400
6200
6000
5800
5600
5400
5200

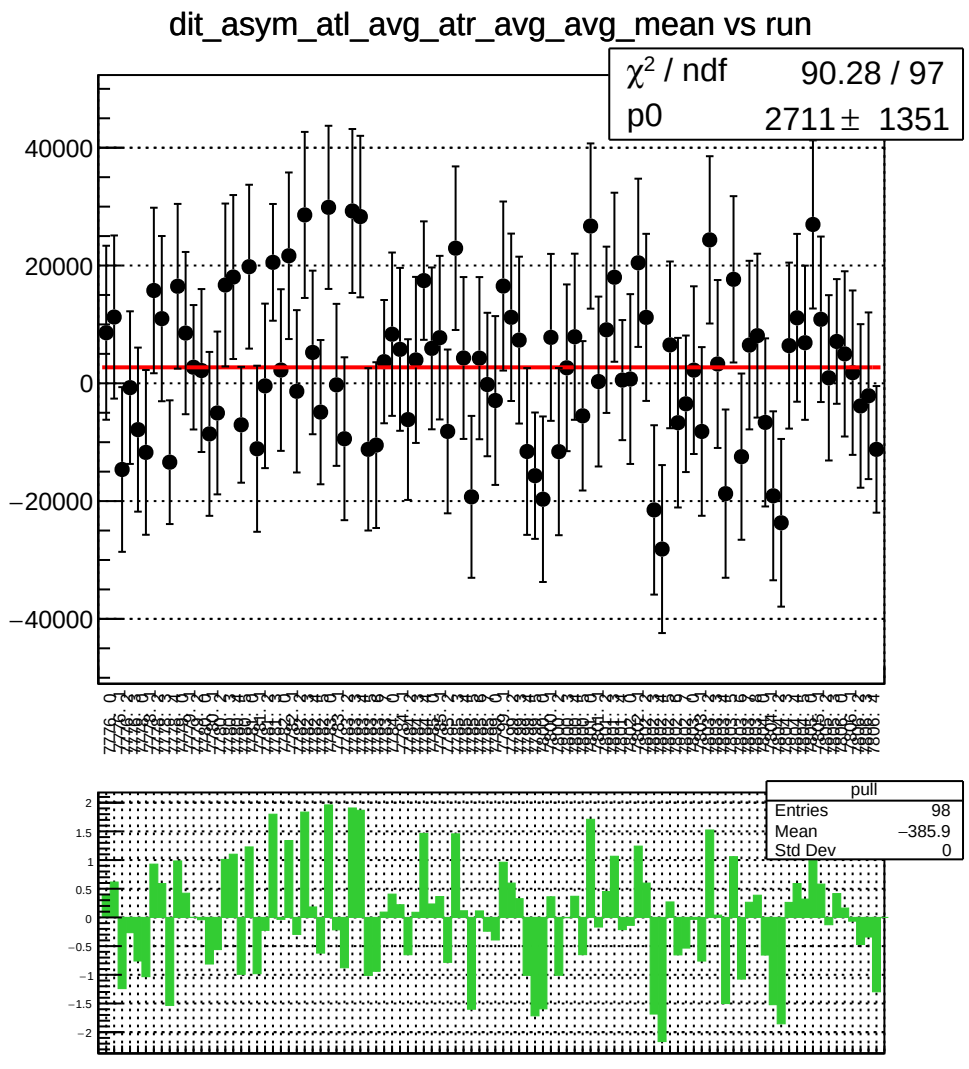

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.63 / 97
p0 2817 ± 1319
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −486.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

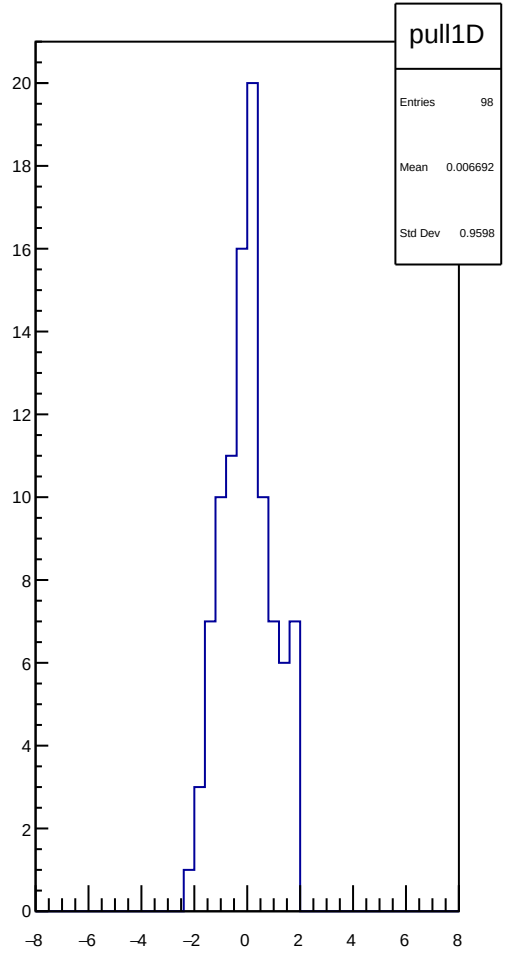

pull1D
Entries 98
Mean 0.008373
Std Dev 0.9616
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

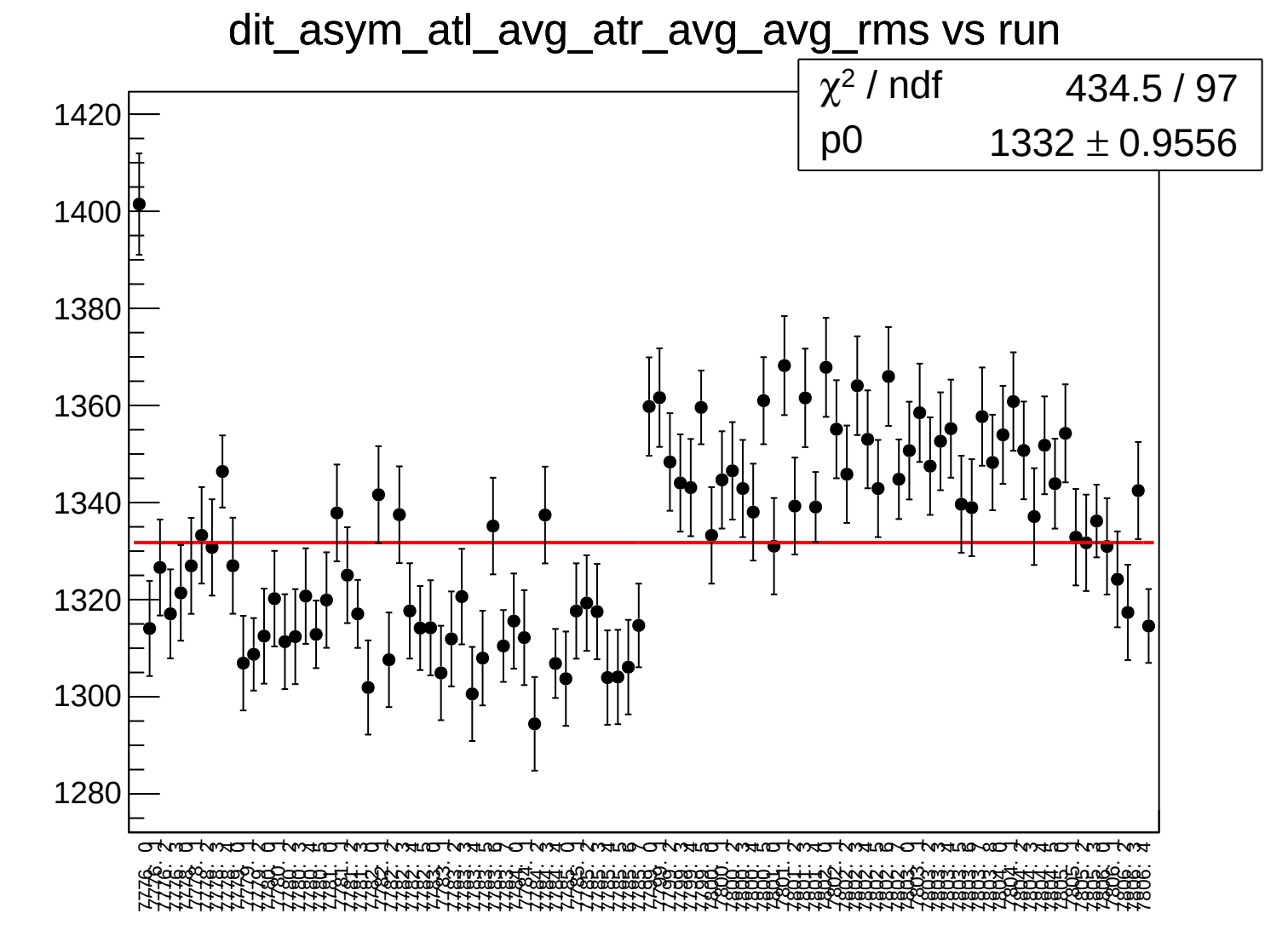

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 179.2 / 97
p0 1300 ± 0.9327
1400
1380
1360
1340
1320
1300
1280
1260

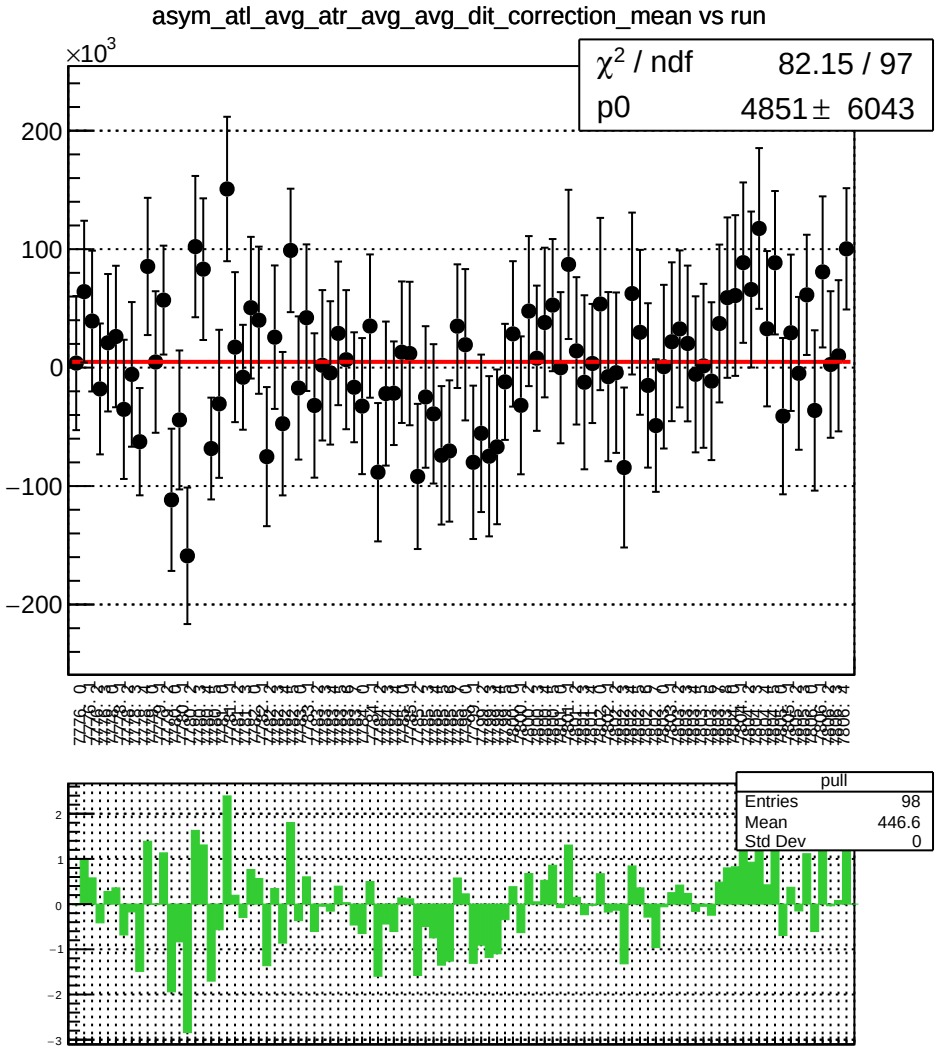

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.07 / 97
p0 5242 ± 5979
200
100
0
−100
−200
pull
Entries 98
Mean 509.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01036
Std Dev 0.9151
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

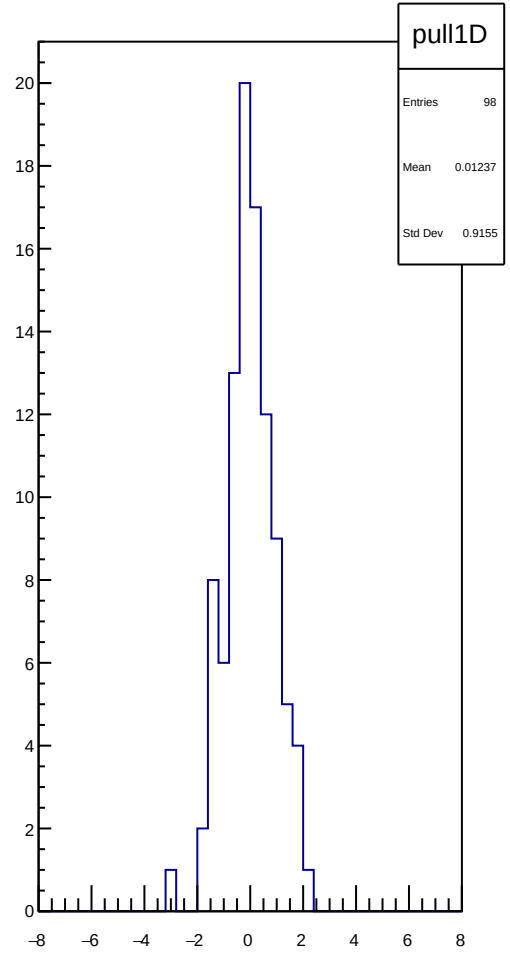

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4348 / 97
p0 5886 ± 4.227
6800
6600
6400
6200
6000
5800
5600
5400
5200

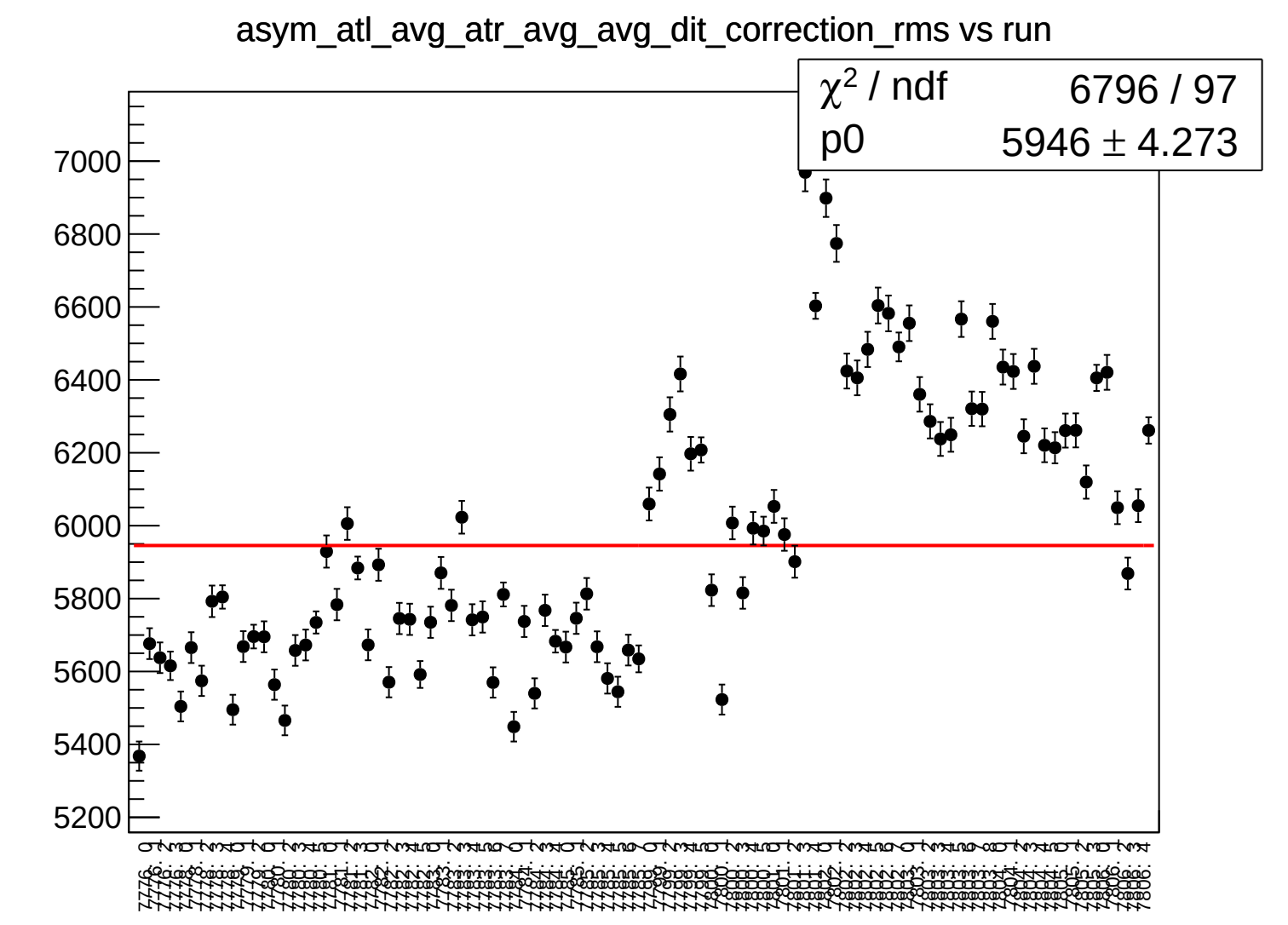

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.28 / 97
p0 2711 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −385.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

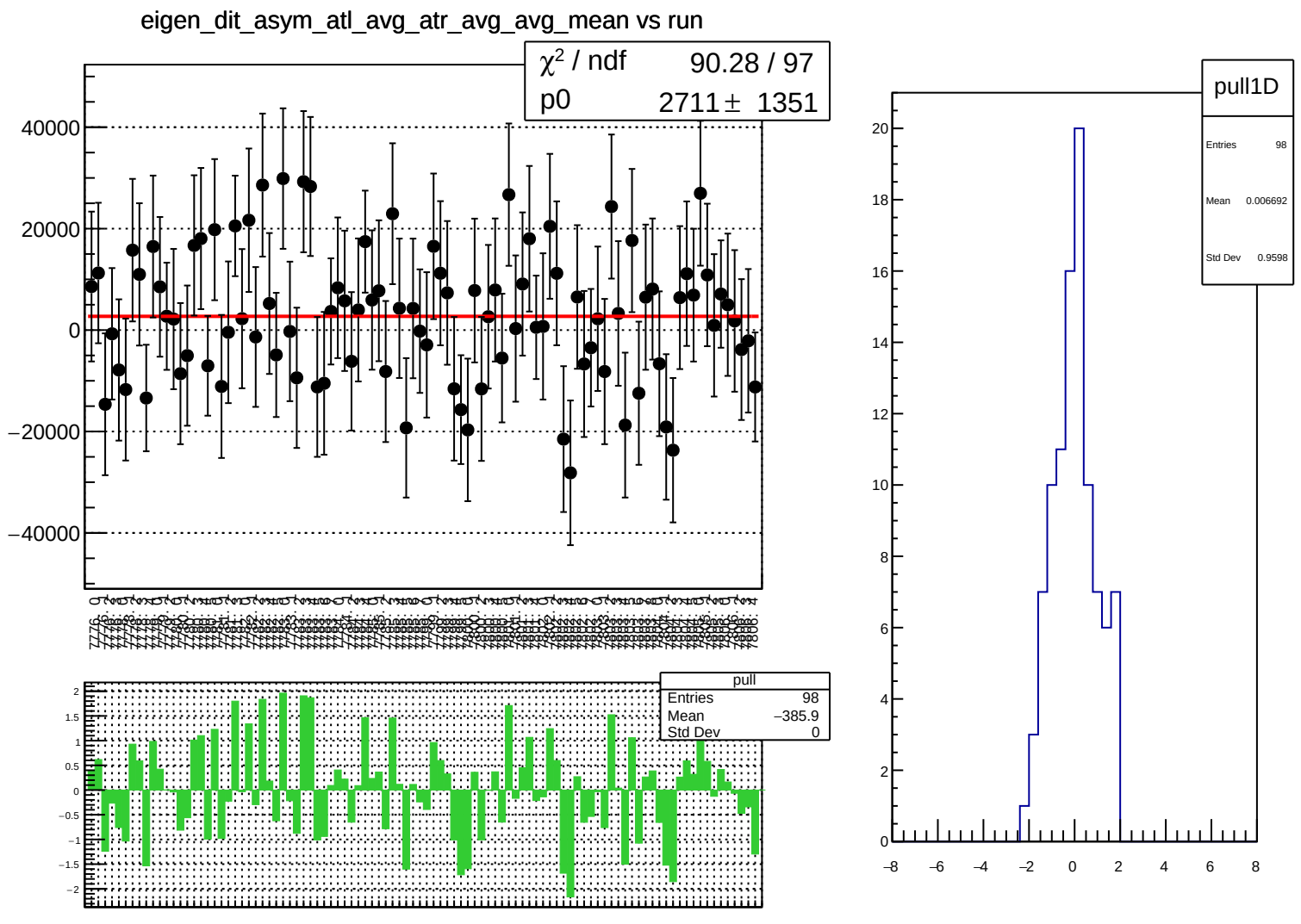

pull1D
Entries 98
Mean 0.006692
Std Dev 0.9598
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

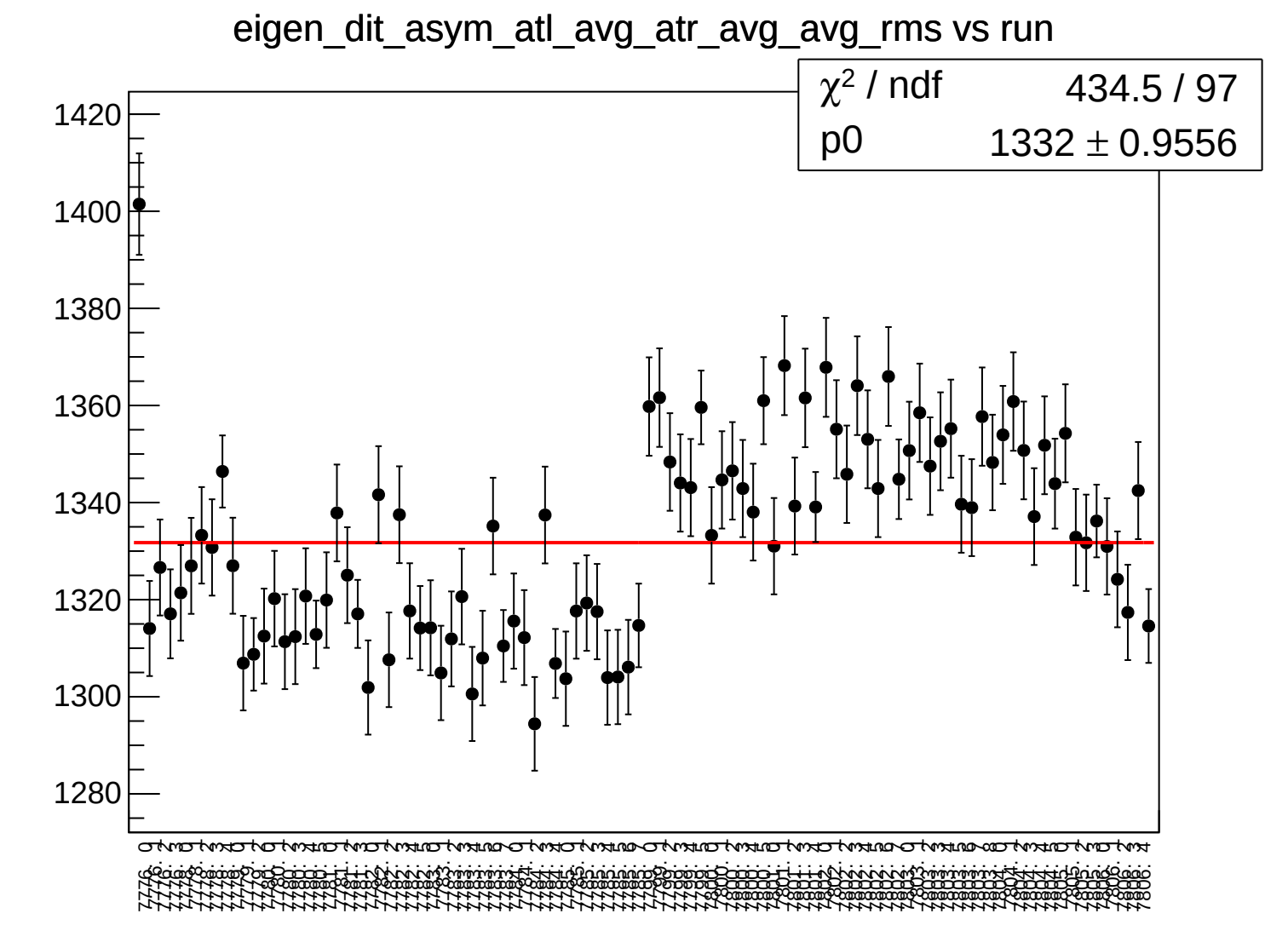

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 434.5 / 97
p0 1332 ± 0.9556
1420
1400
1380
1360
1340
1320
1300
1280

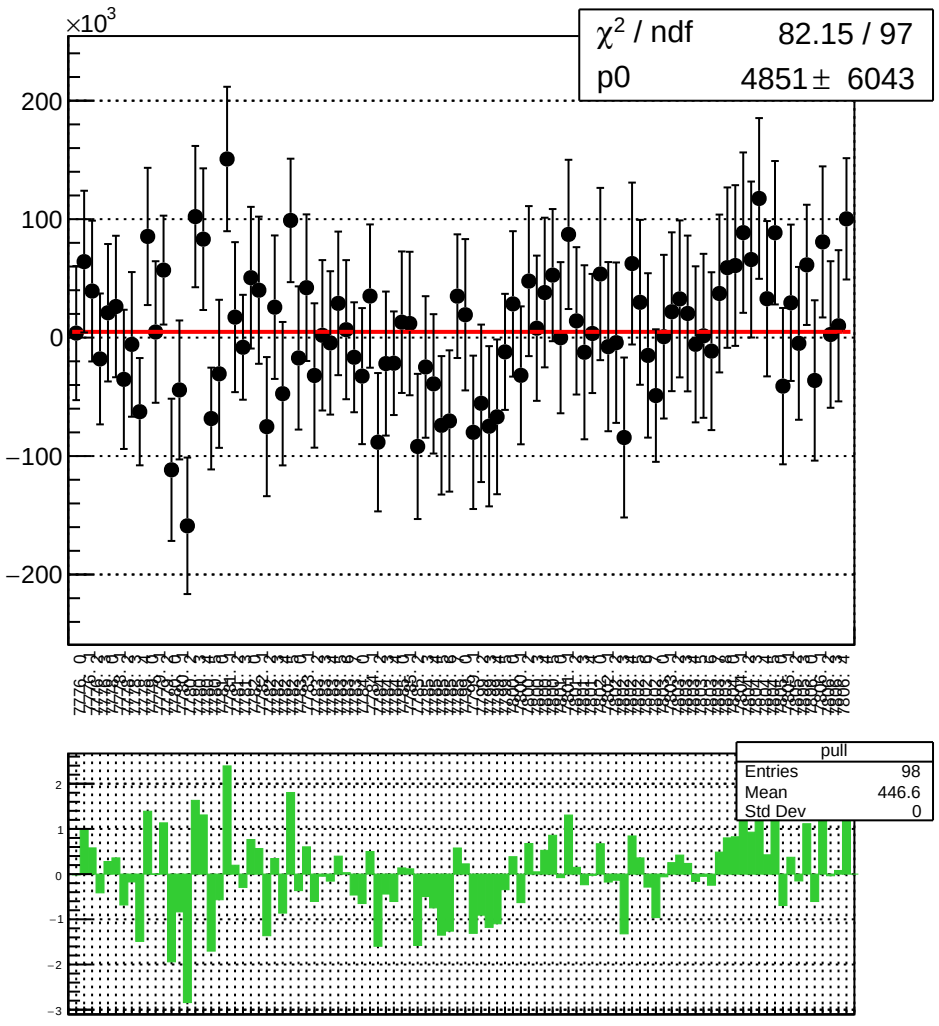

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.15 / 97
p0 4851 ± 6043
200
100
0
−100
−200
pull
Entries 98
Mean 446.6
Std Dev 0
2
1
0
−1
−2
−3

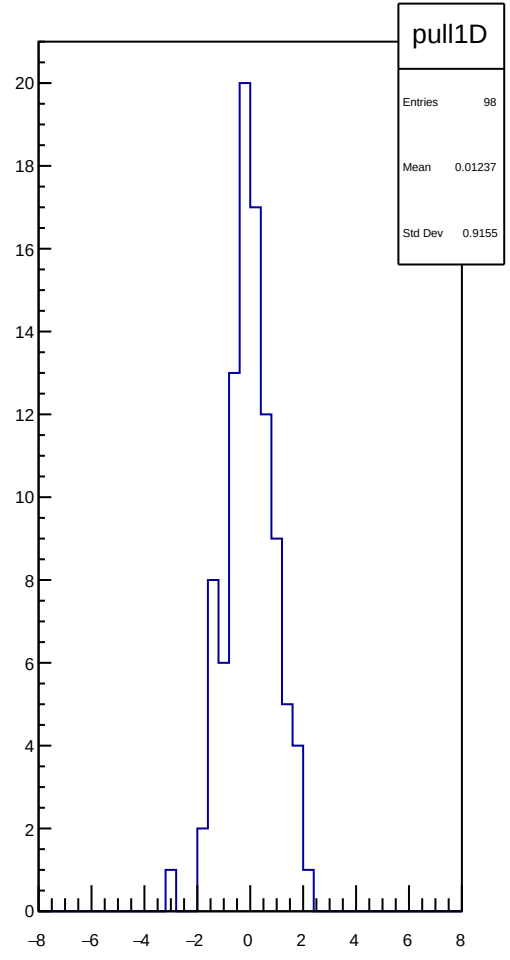

pull1D
Entries 98
Mean 0.01237
Std Dev 0.9155
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

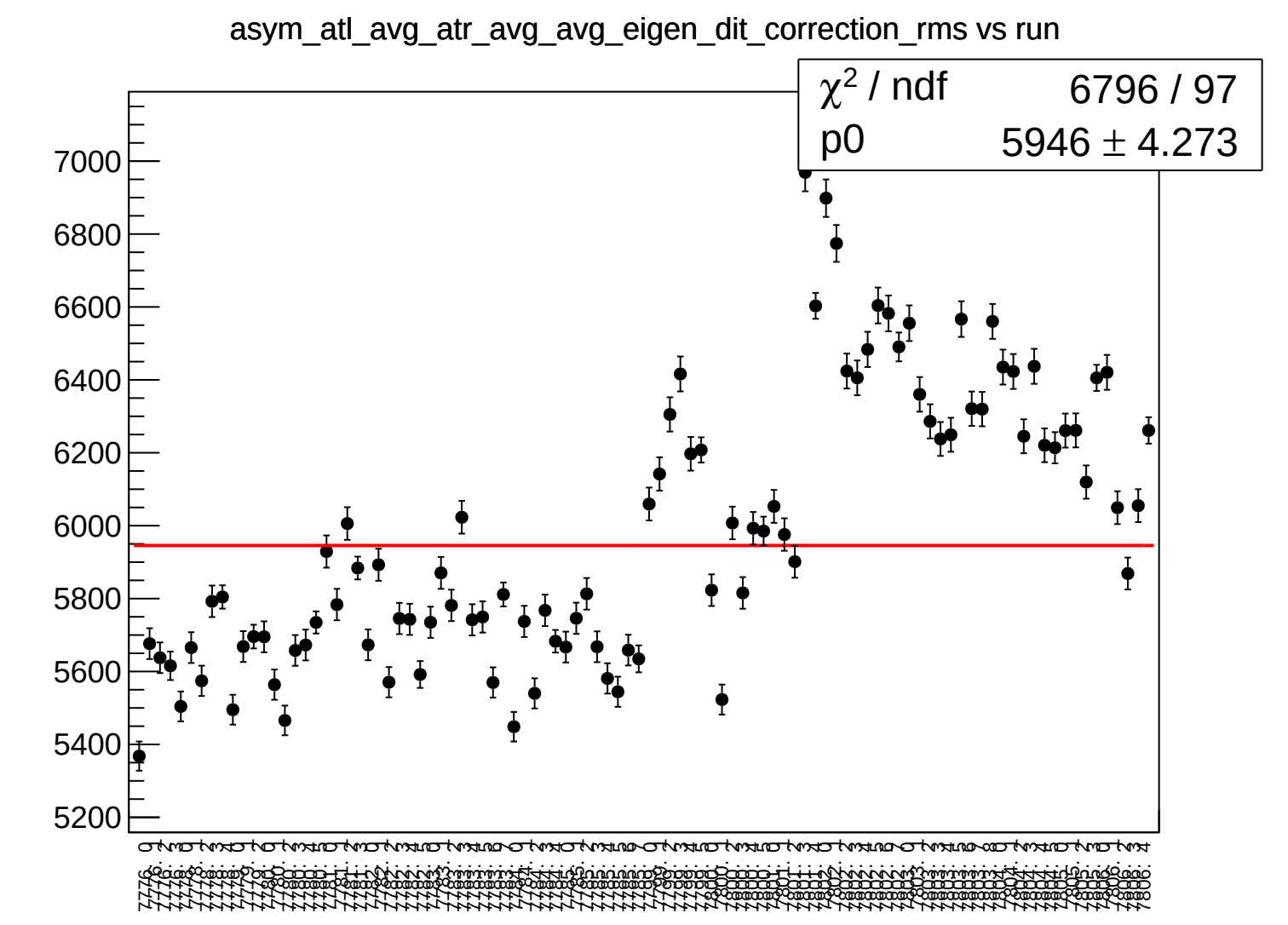

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 6796 / 97
p0 5946 ± 4.273
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

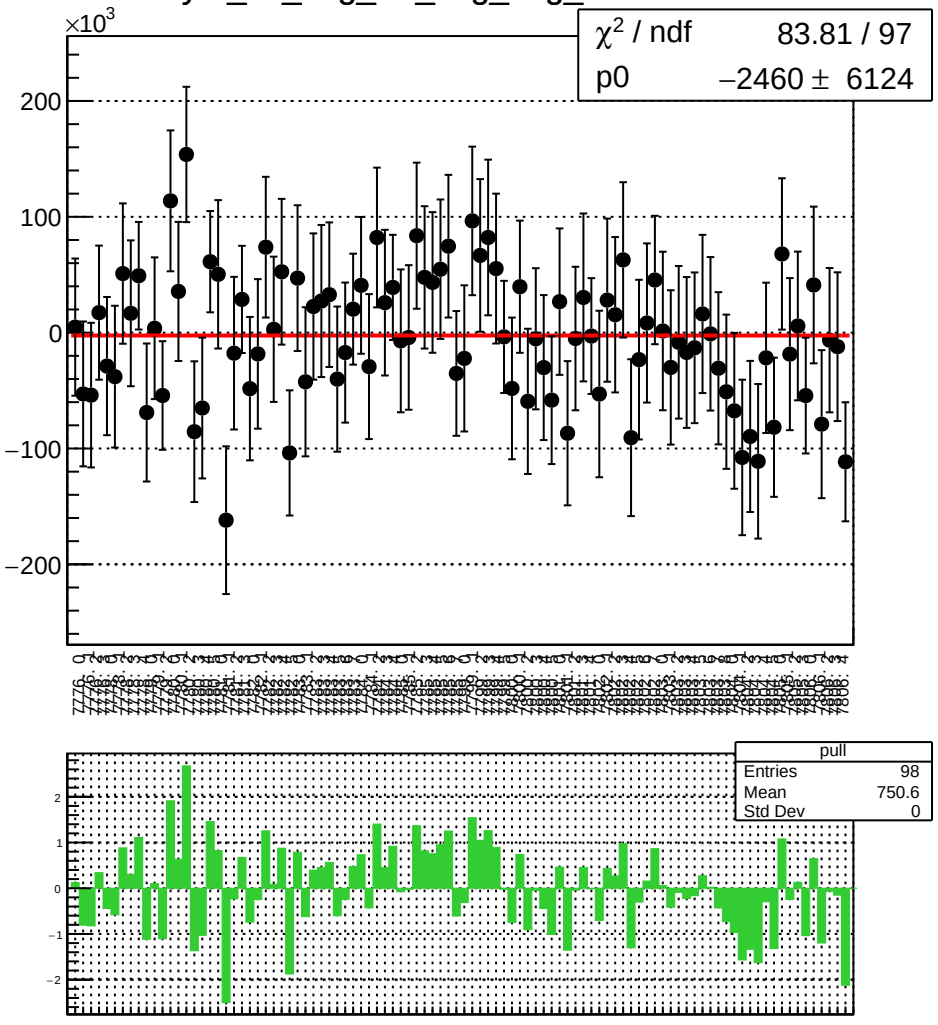

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.28 / 97
p0 2711 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −385.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.006692
Std Dev 0.9598
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

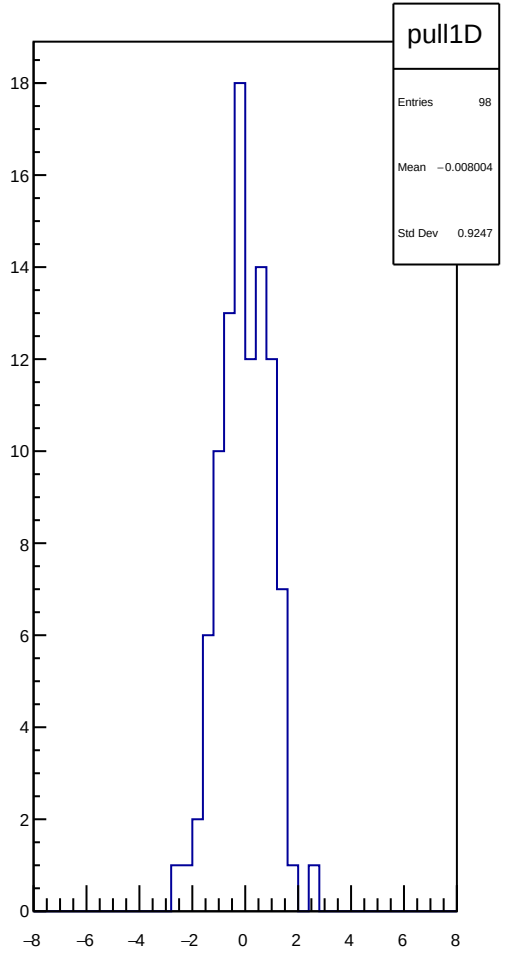

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 434.5 / 97
p0 1332 ± 0.9556
1420
1400
1380
1360
1340
1320
1300
1280

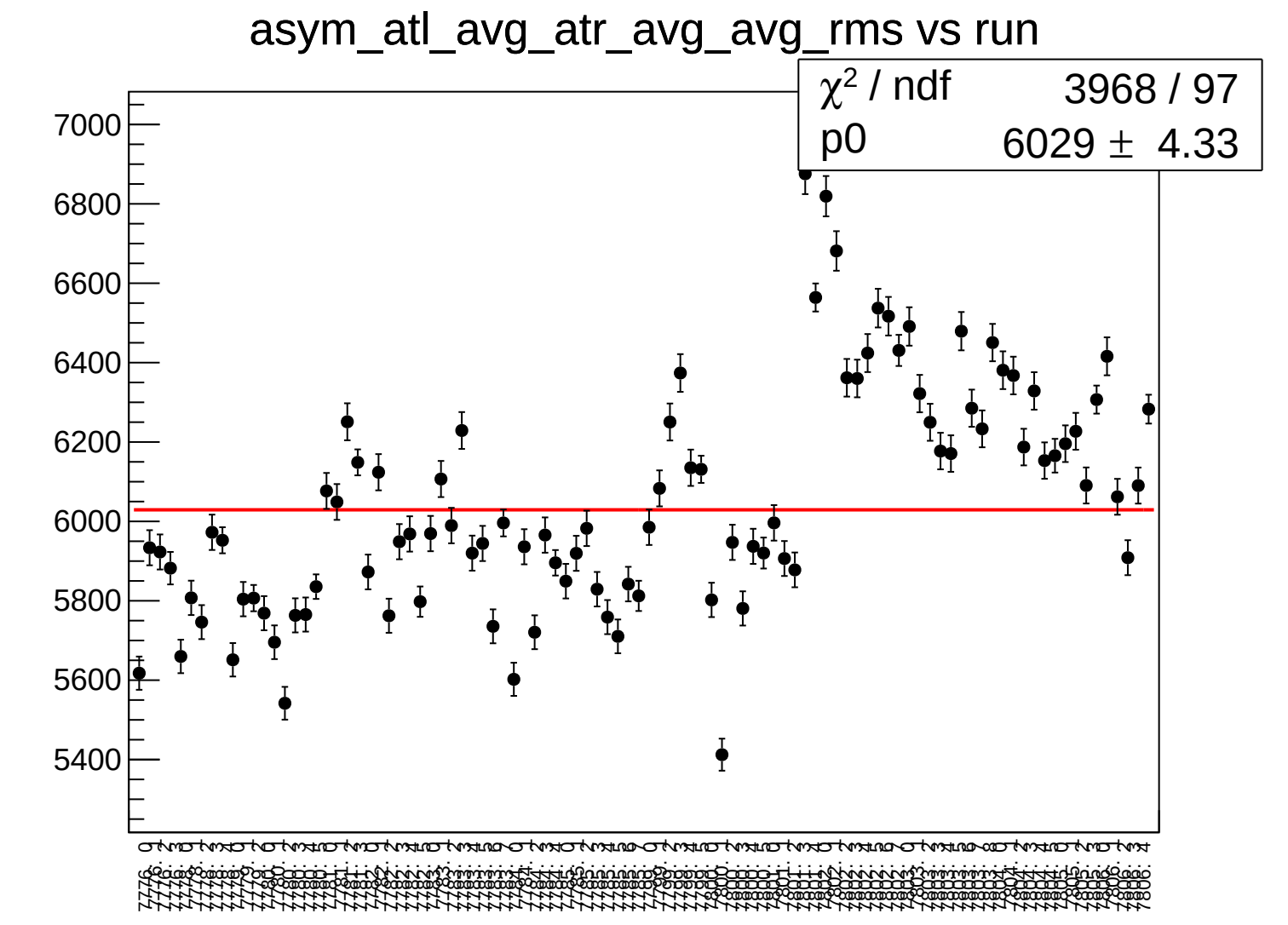

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.15 / 97
p0 4851 ± 6043
200
100
0
−100
−200
pull
Entries 98
Mean 446.6
Std Dev 0
2
1
0
−1
−2
−3

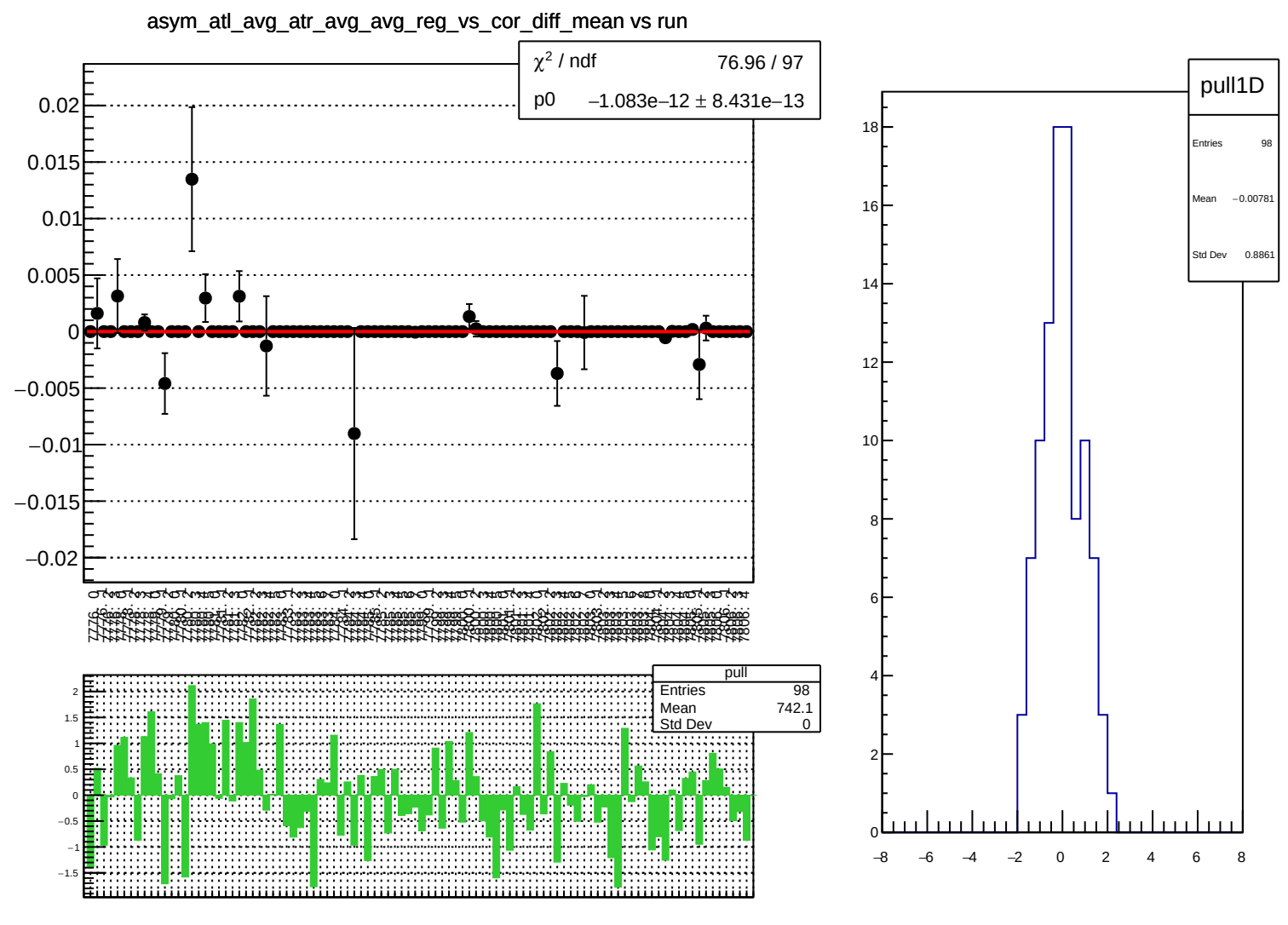

pull1D
Entries 98
Mean 0.01237
Std Dev 0.9155
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

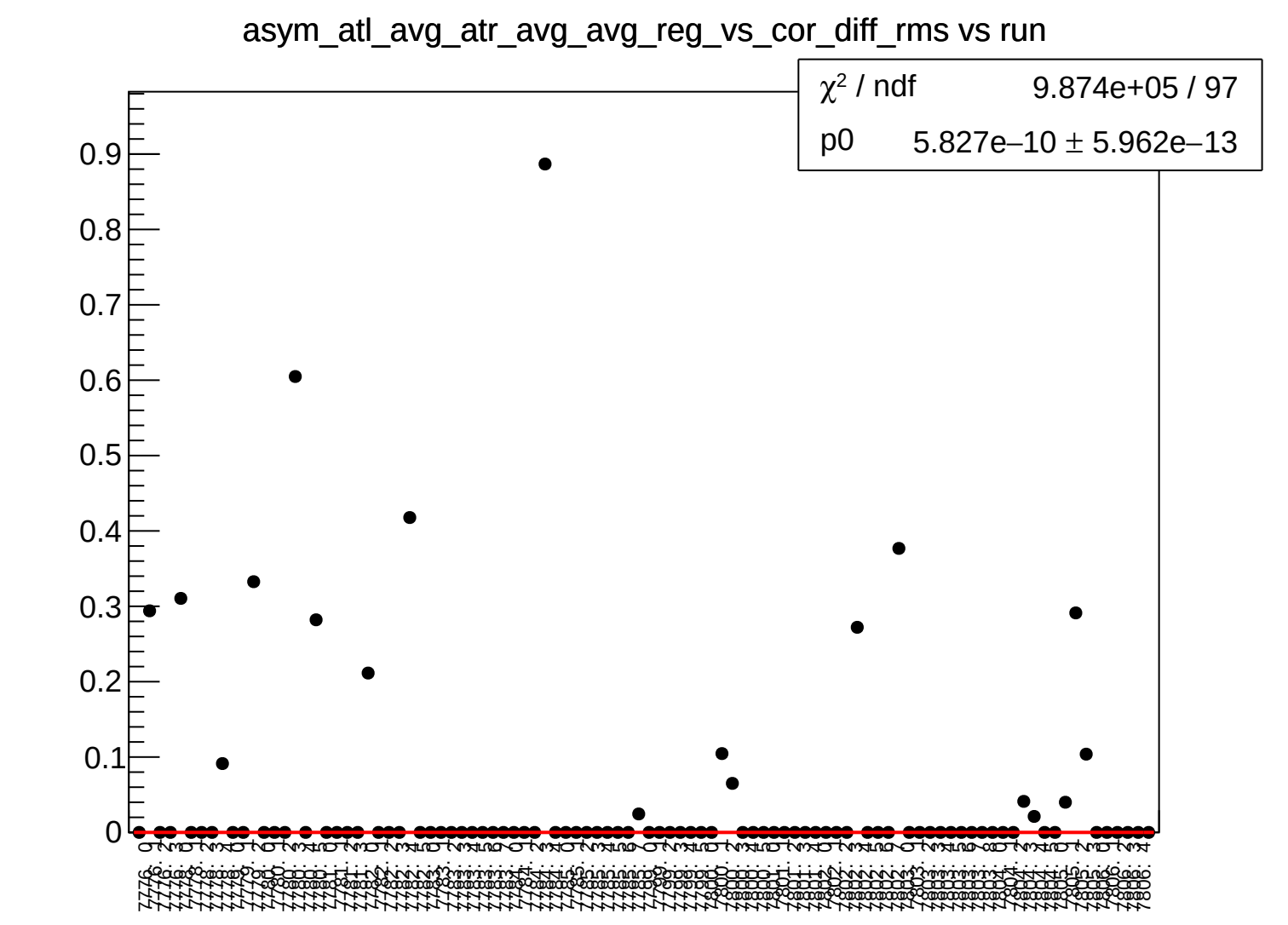

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6796 / 97
p0 5946 ± 4.273
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

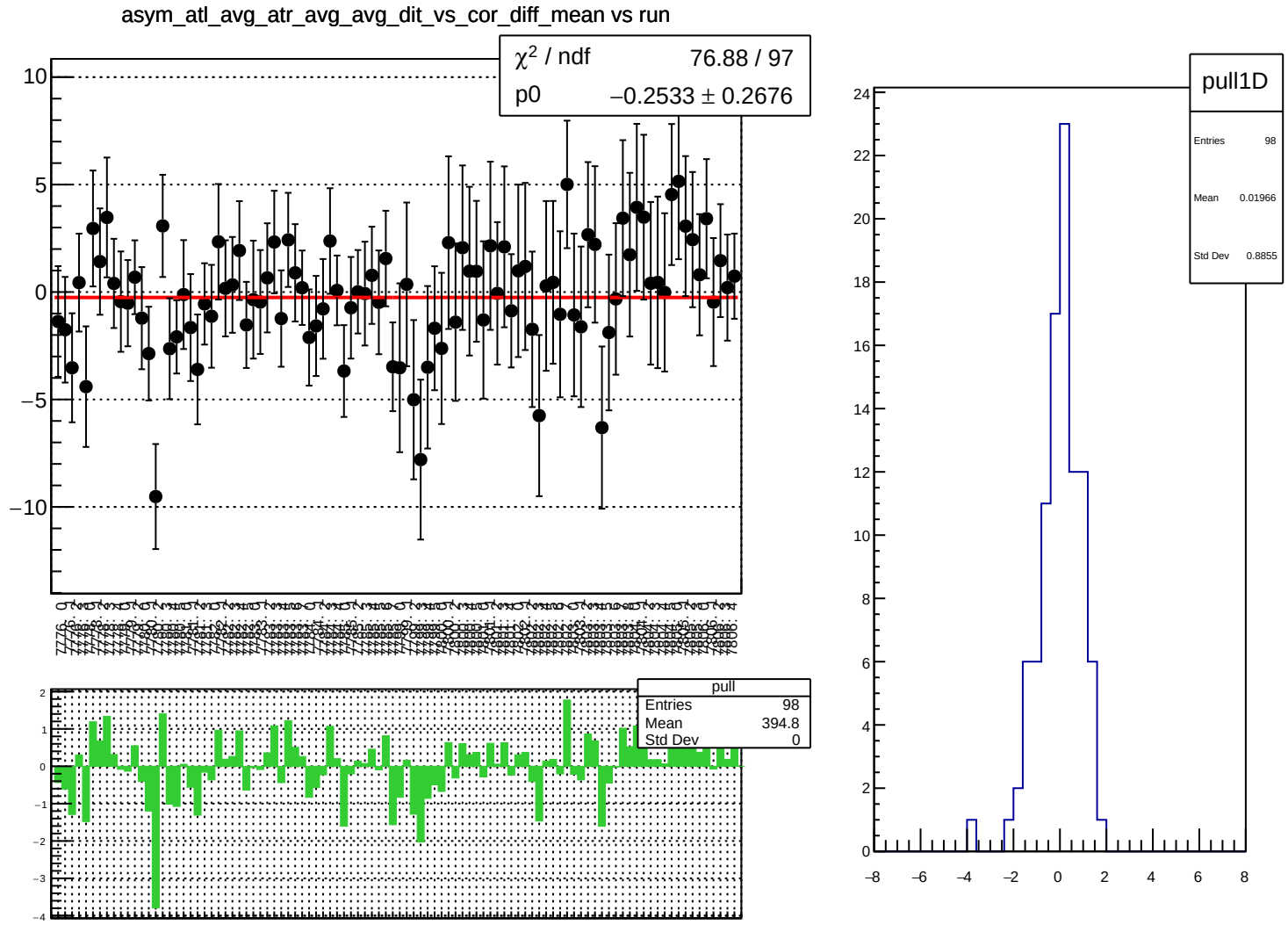

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 83.81 / 97
p0 −2460 ± 6124
200
100
0
−100
−200
pull
Entries 98
Mean 750.6
Std Dev 0
2
1
0
−1
−2

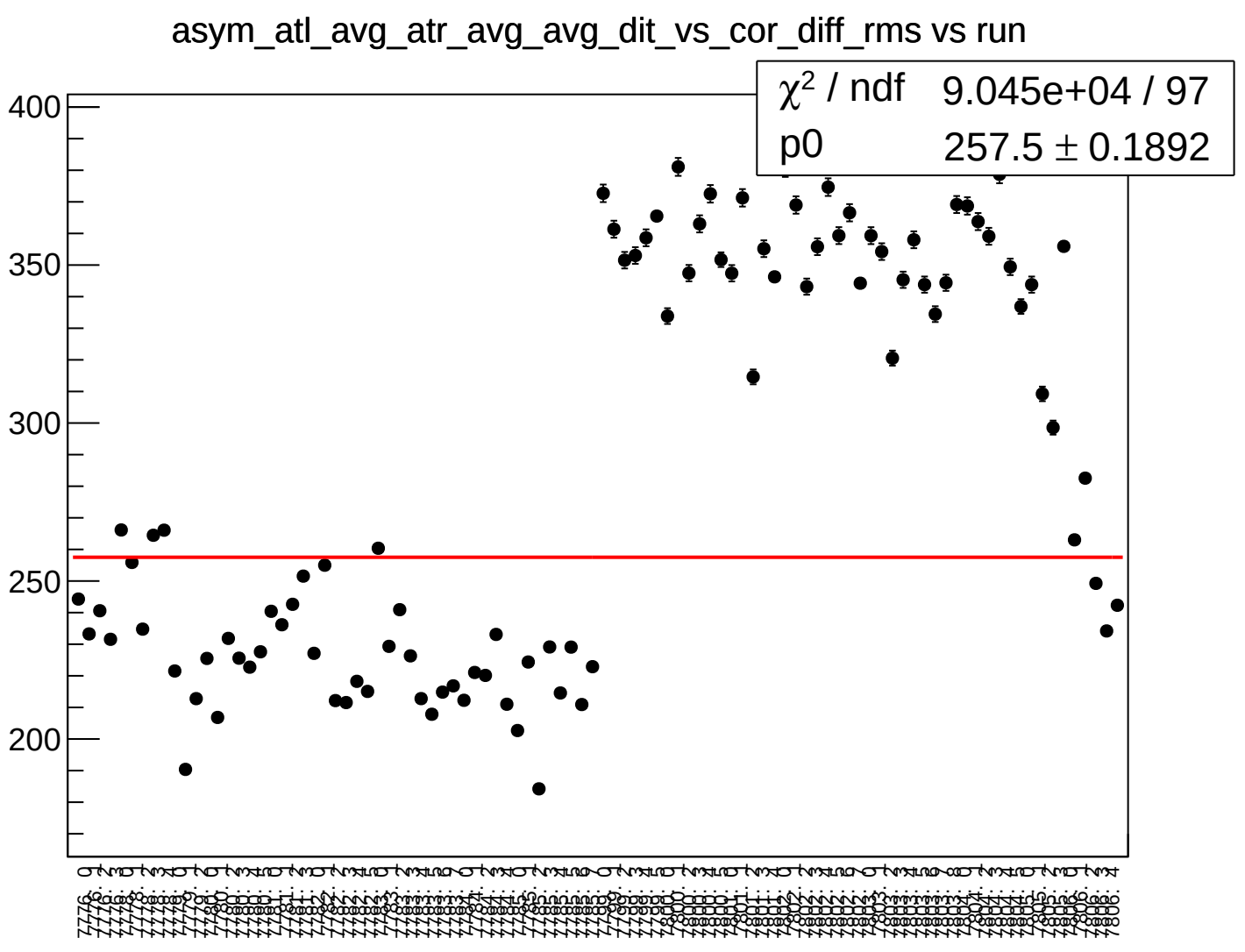

pull1D
Entries 98
Mean −0.008004
Std Dev 0.9247
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

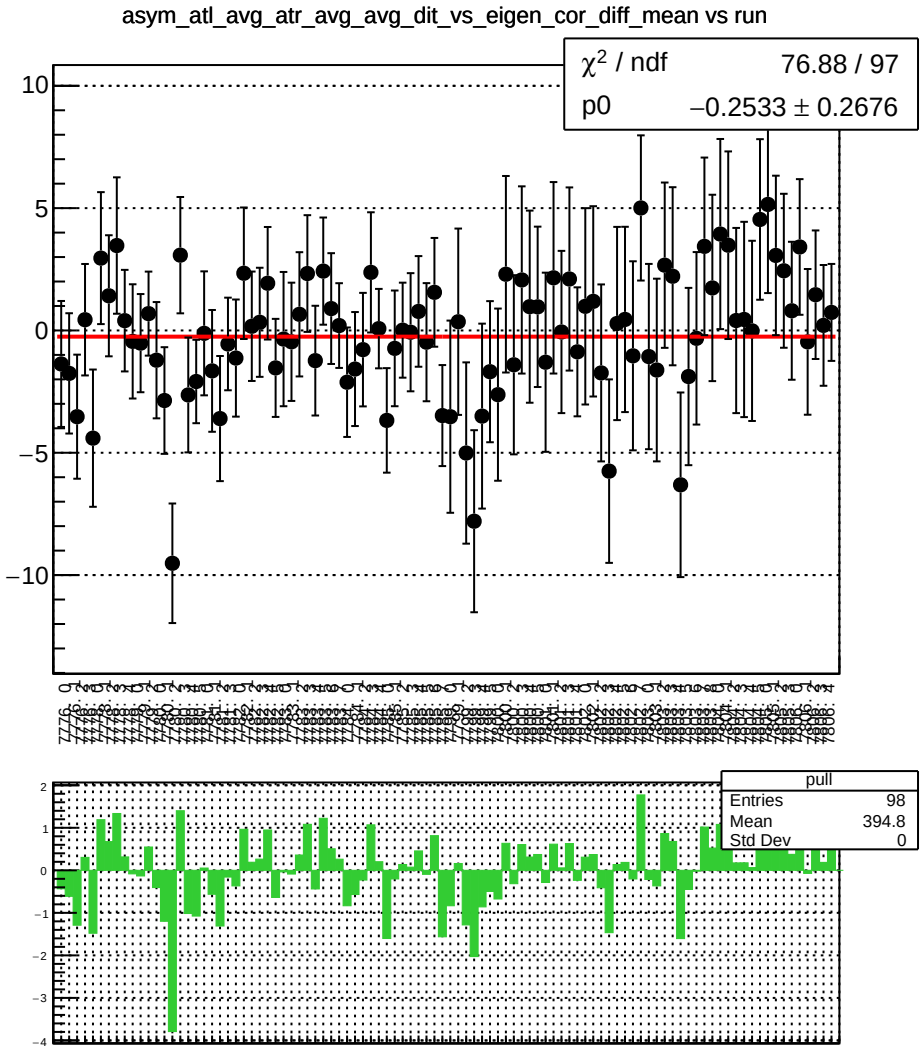

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3968 / 97
p0 6029 ± 4.33
7000
6800
6600
6400
6200
6000
5800
5600
5400

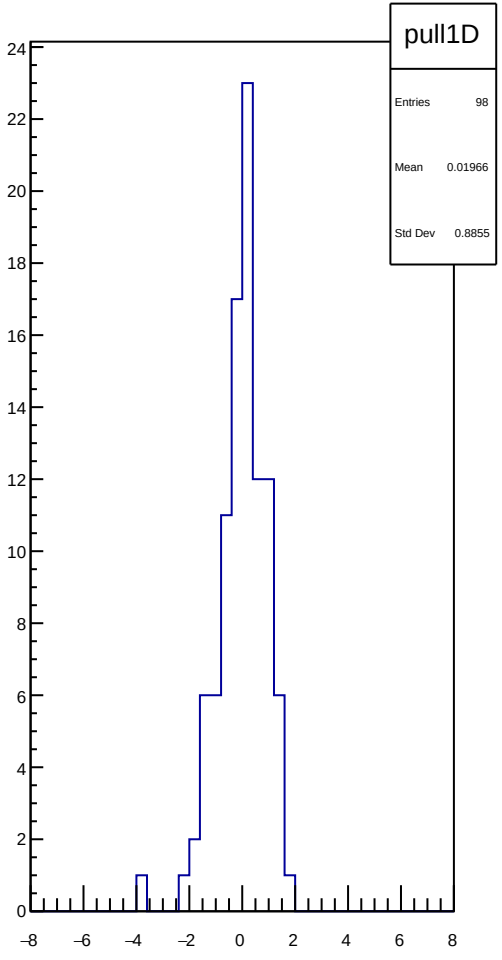

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.96 / 97
p0 −1.083e−12 ± 8.431e−13
pull
Entries 98
Mean 742.1
Std Dev 0
pull1D
Entries 98
Mean −0.00781
Std Dev 0.8861

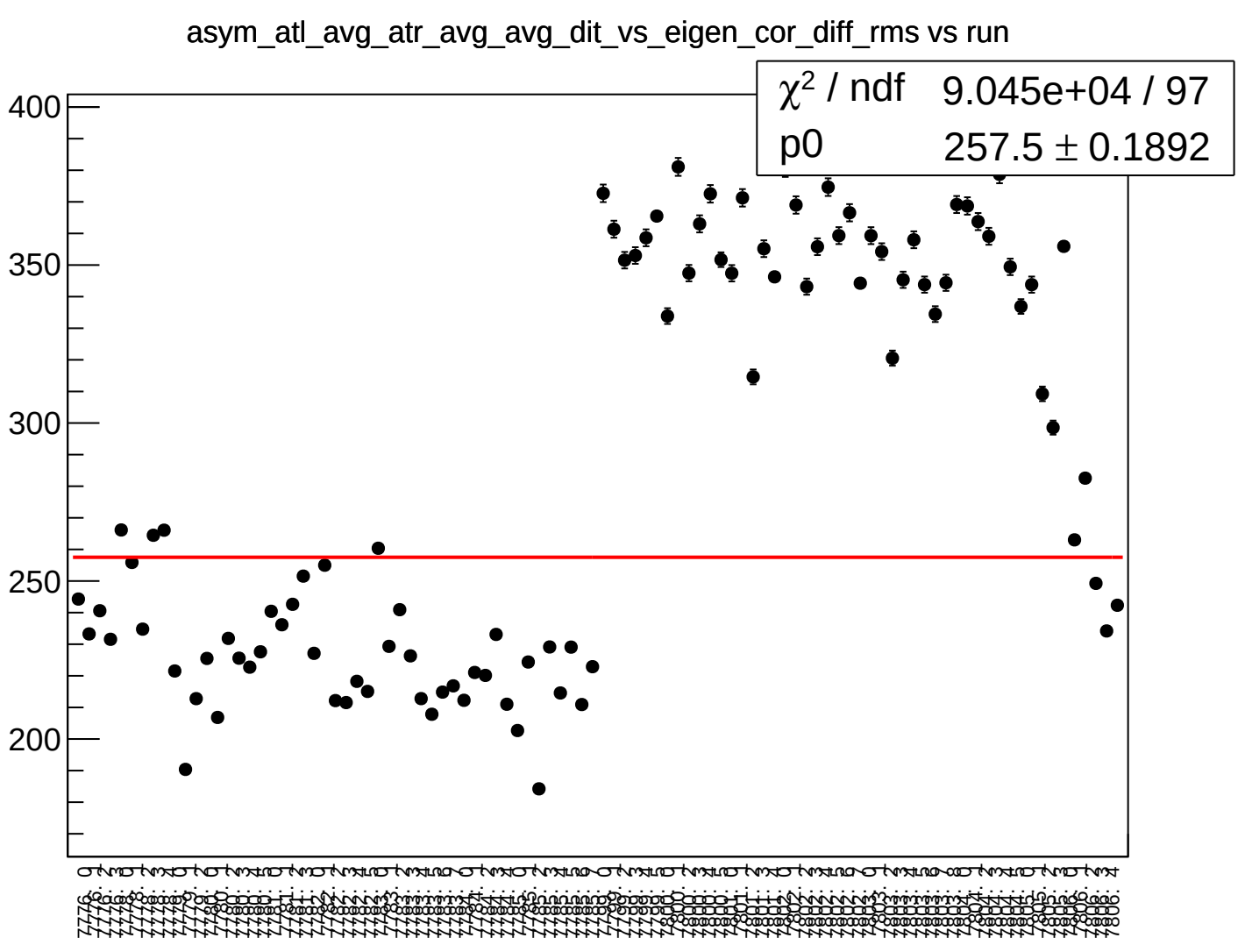

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.874e+05 / 97
p0 5.827e−10 ± 5.962e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

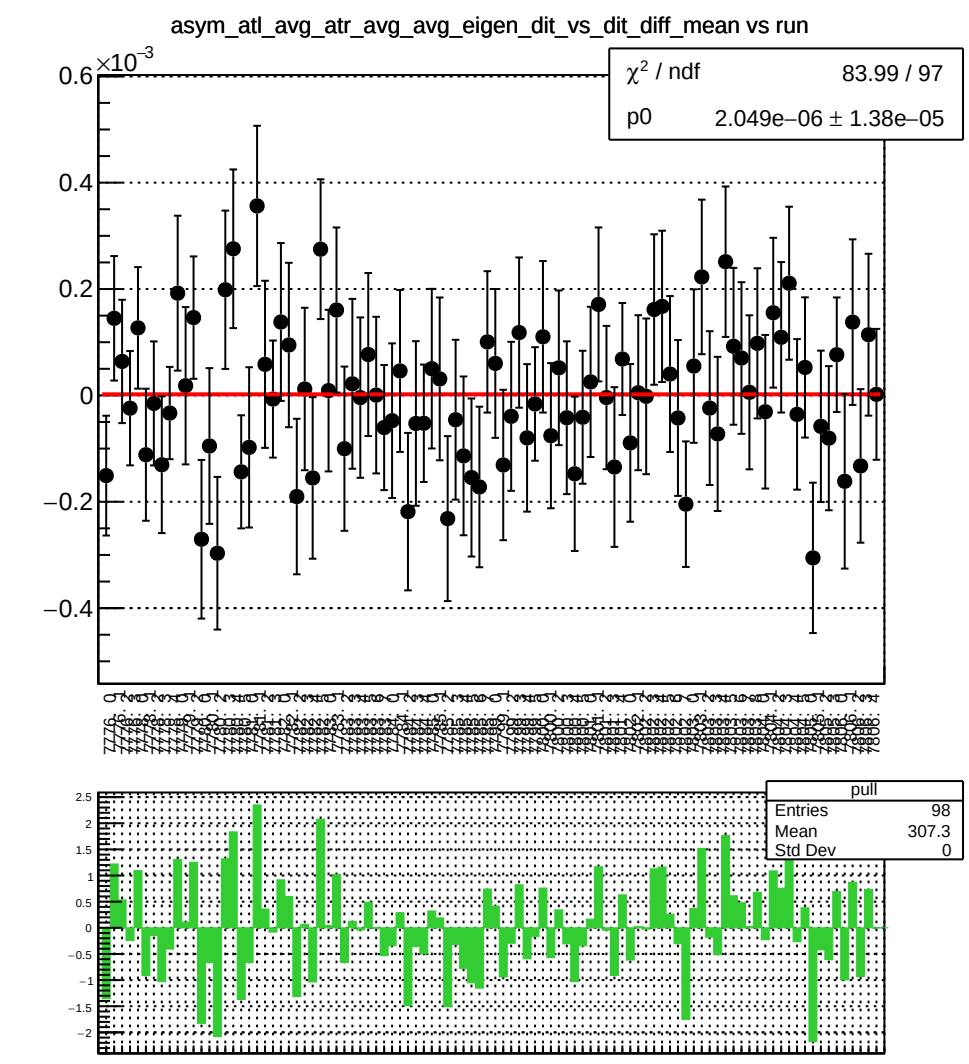

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.88 / 97
p0 −0.2533 ± 0.2676
pull
Entries 98
Mean 394.8
Std Dev 0
pull1D
Entries 98
Mean 0.01966
Std Dev 0.8855

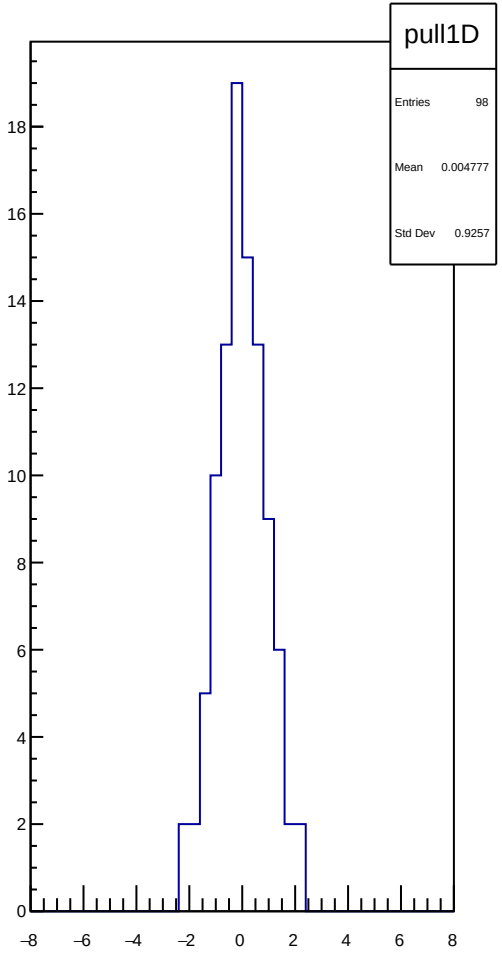

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.045e+04 / 97
p0 257.5 ± 0.1892
400
350
300
250
200

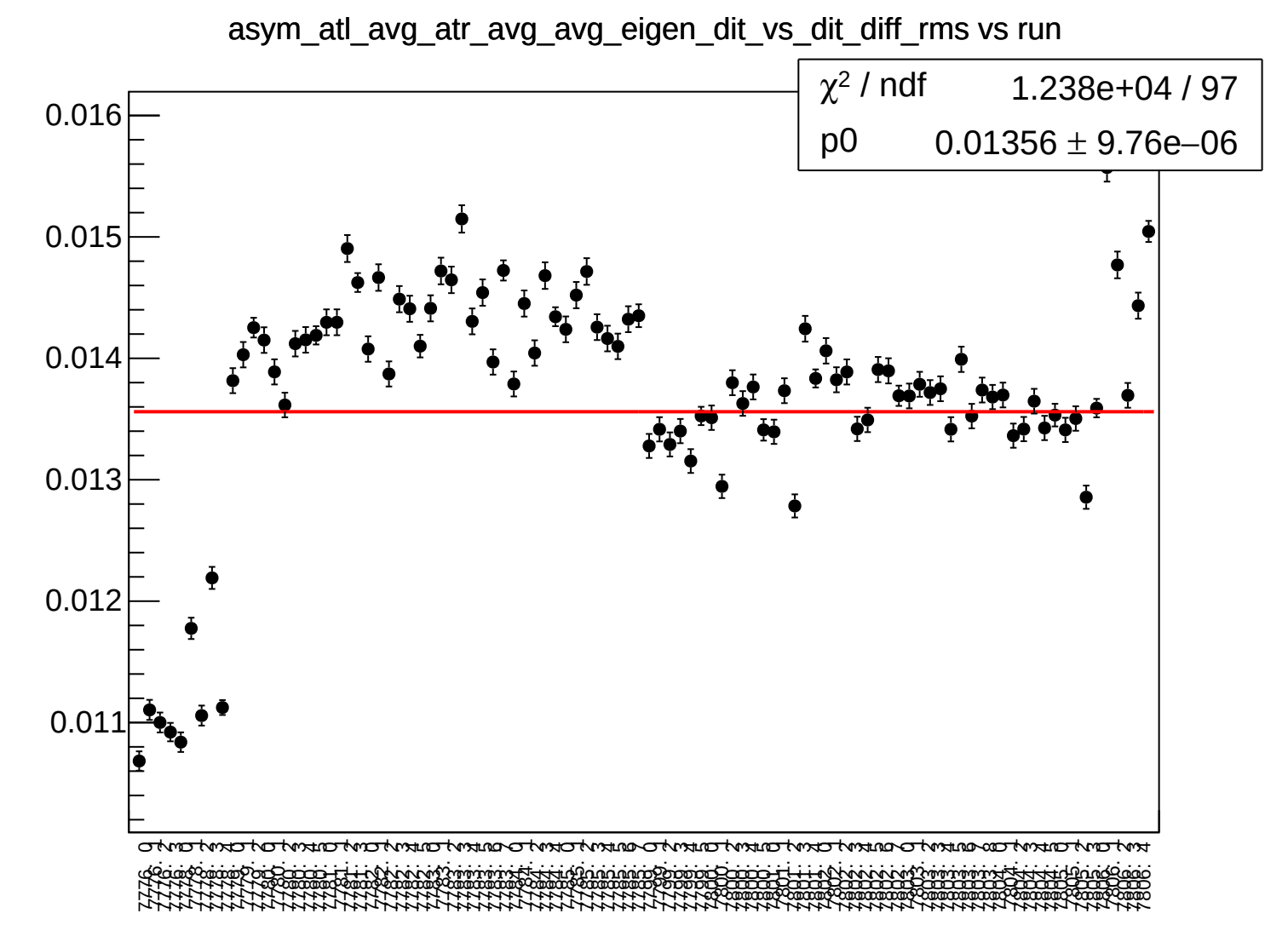

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.88 / 97
p0 −0.2533 ± 0.2676
pull
Entries 98
Mean 394.8
Std Dev 0

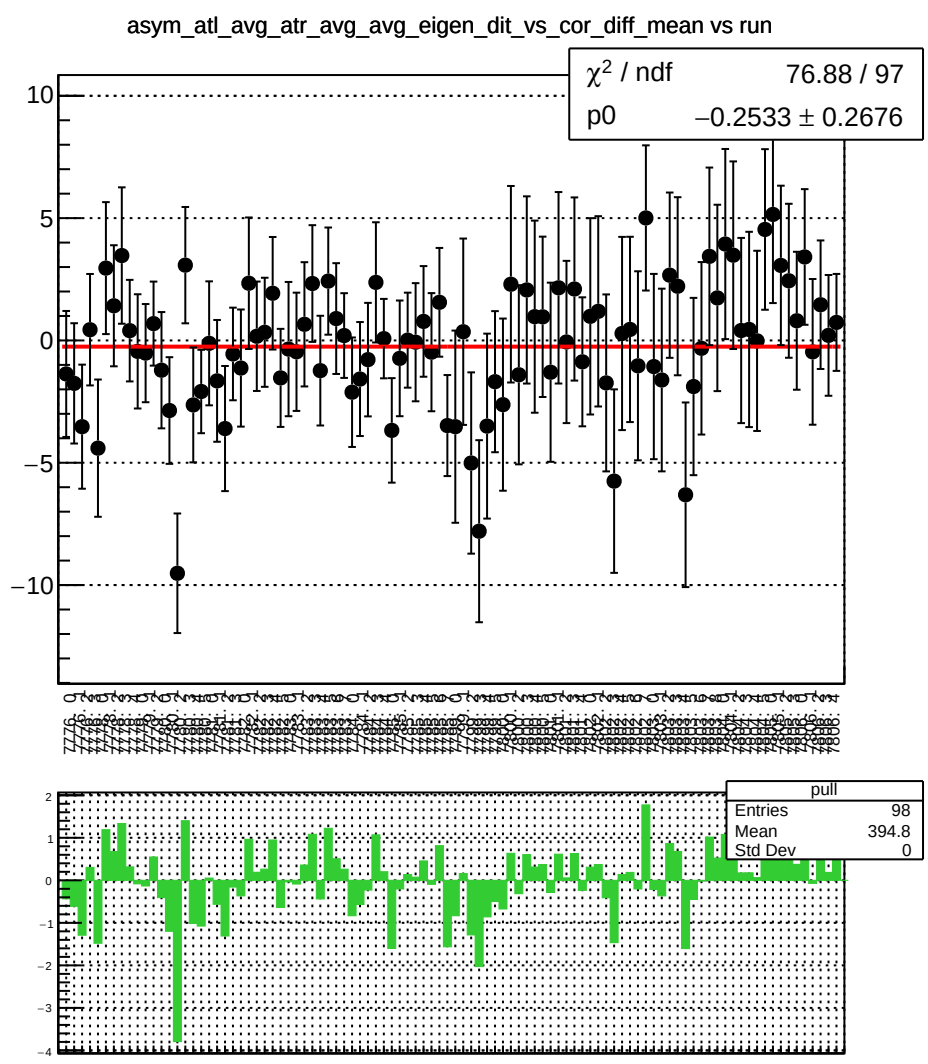

pull1D
Entries 98
Mean 0.01966
Std Dev 0.8855

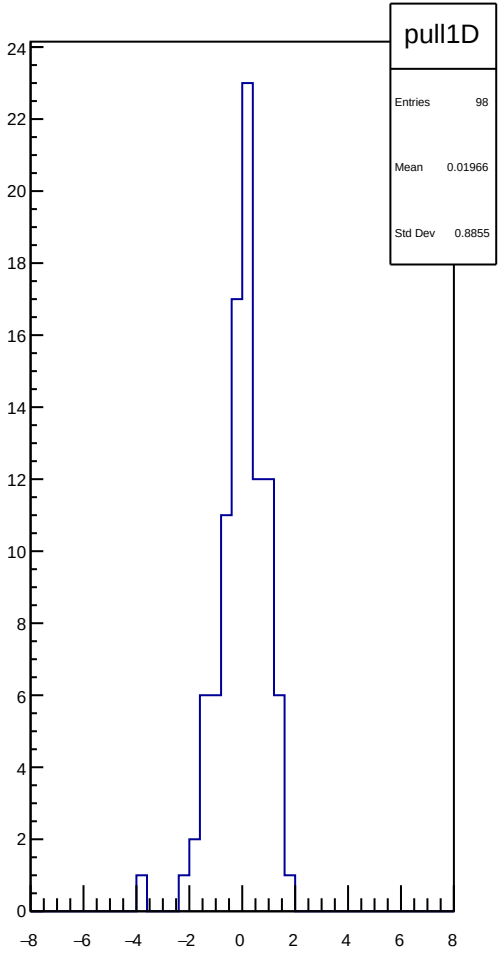

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.045e+04 / 97
p0 257.5 ± 0.1892
400
350
300
250
200

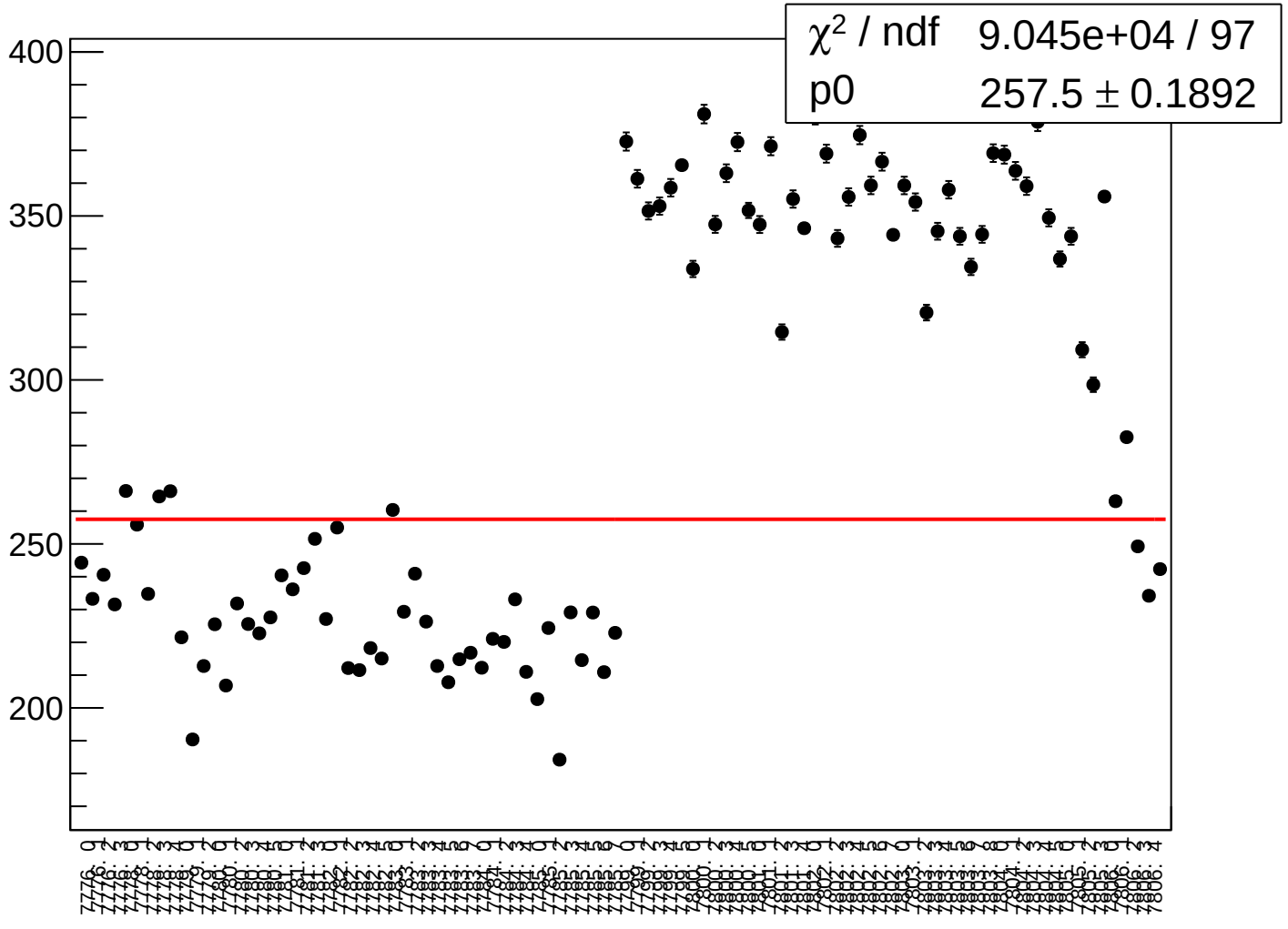

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.99 / 97
p0 2.049e−06 ± 1.38e−05
pull
Entries 98
Mean 307.3
Std Dev 0

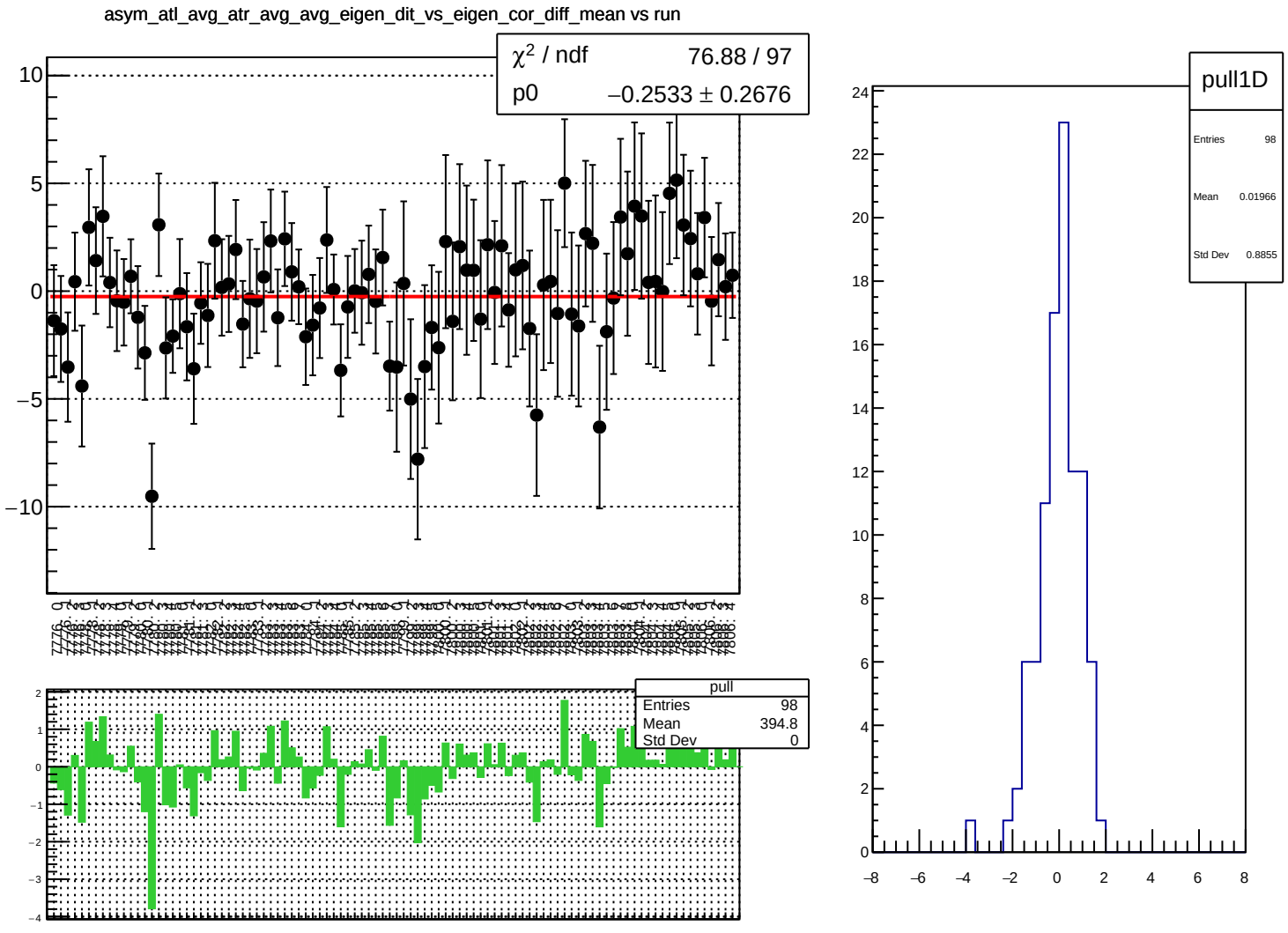

pull1D
Entries 98
Mean 0.004777
Std Dev 0.9257

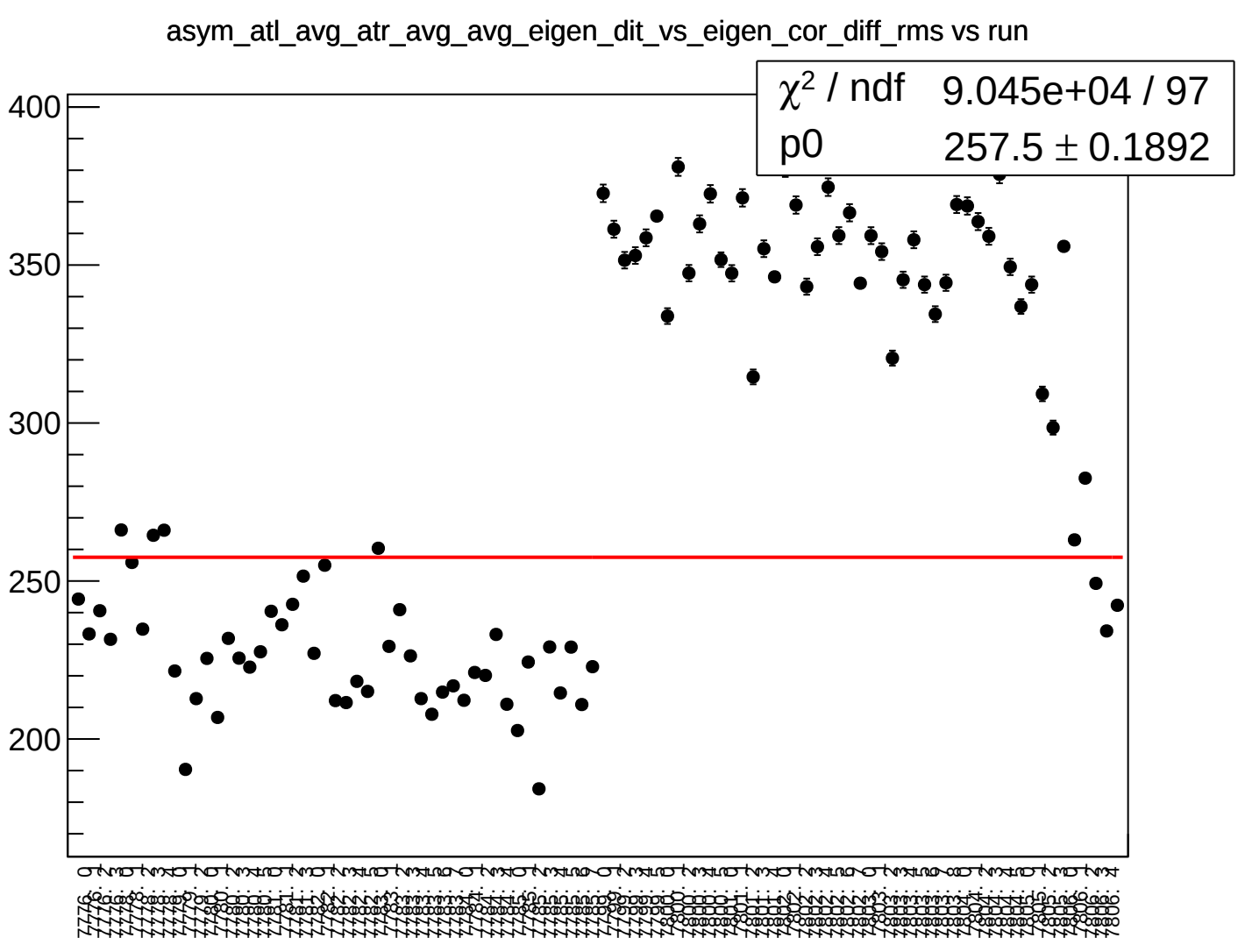

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.238e+04 / 97
p0 0.01356 ± 9.76e−06
0.016
0.015
0.014
0.013
0.012
0.011

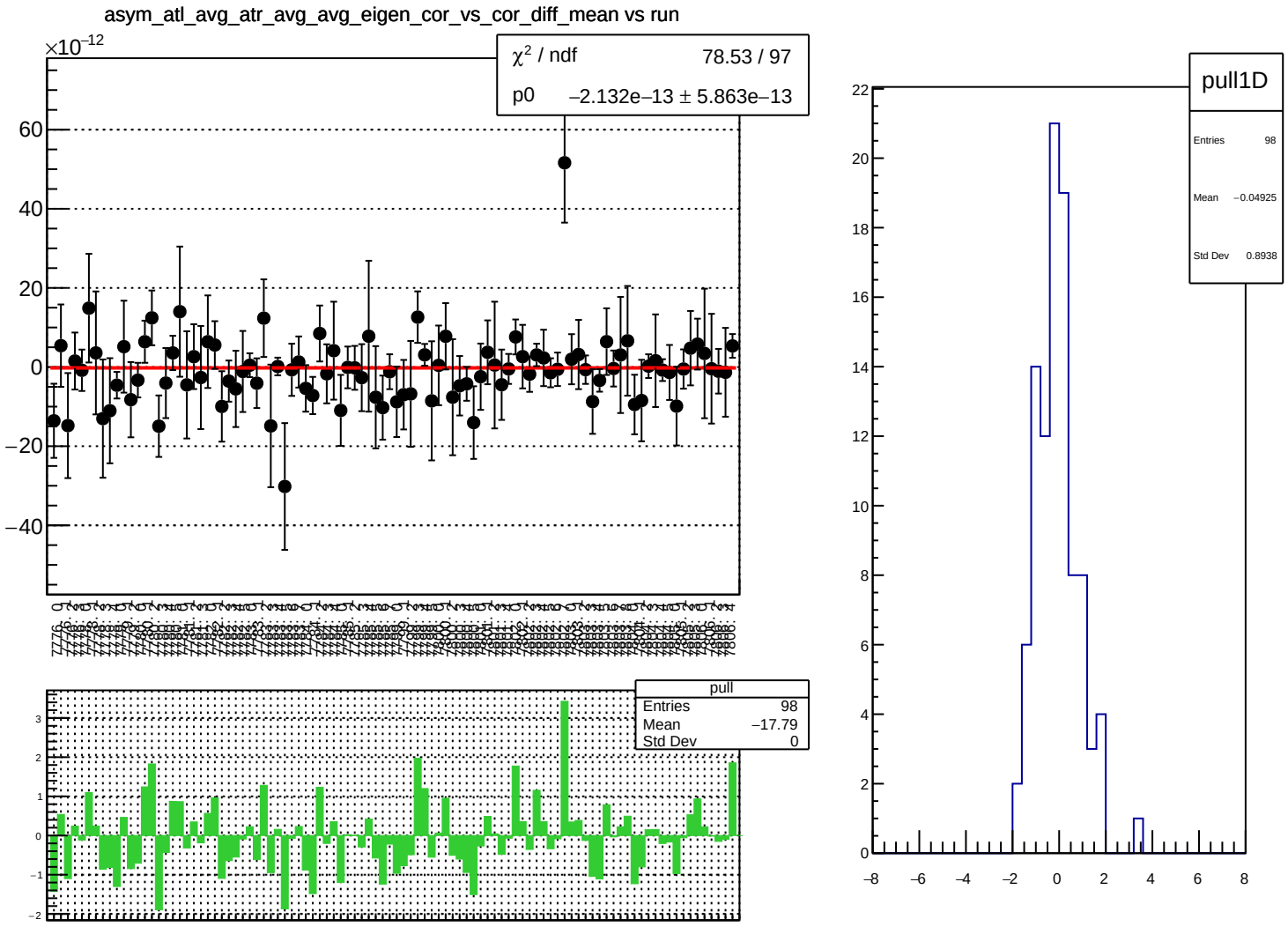

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.88 / 97
p0 −0.2533 ± 0.2676
pull
Entries 98
Mean 394.8
Std Dev 0

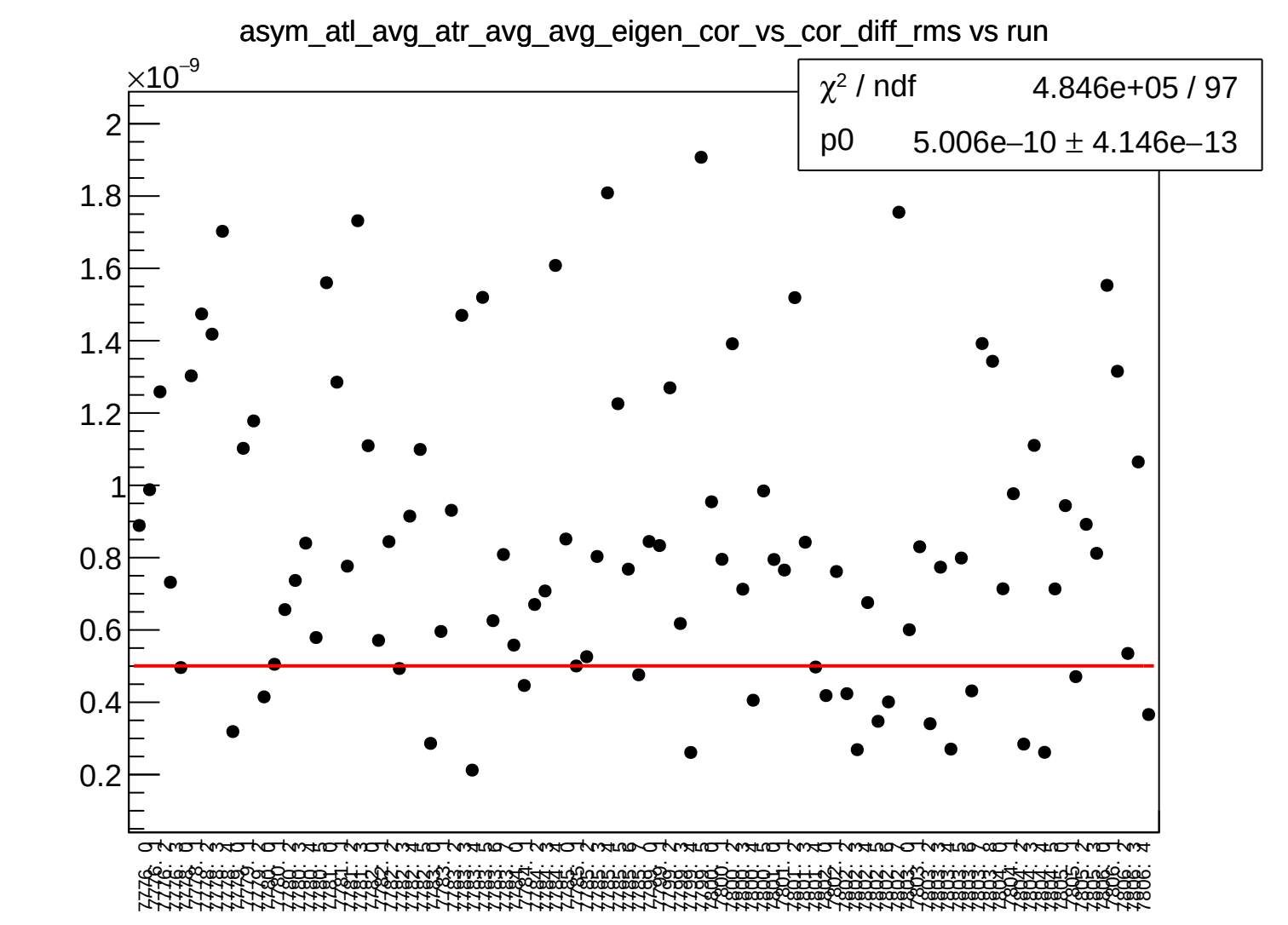

pull1D
Entries 98
Mean 0.01966
Std Dev 0.8855

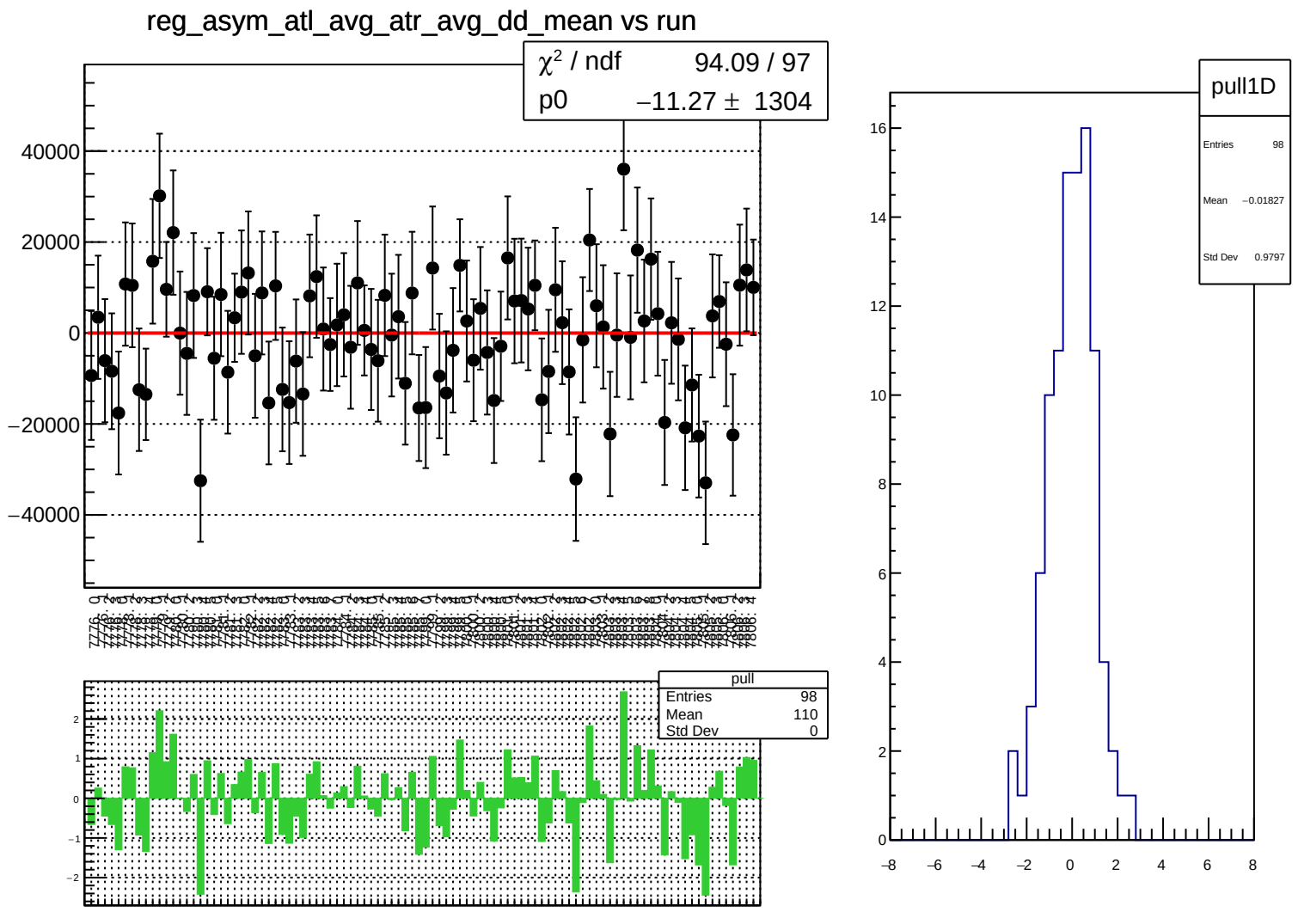

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.045e+04 / 97
p0 257.5 ± 0.1892
400
350
300
250
200

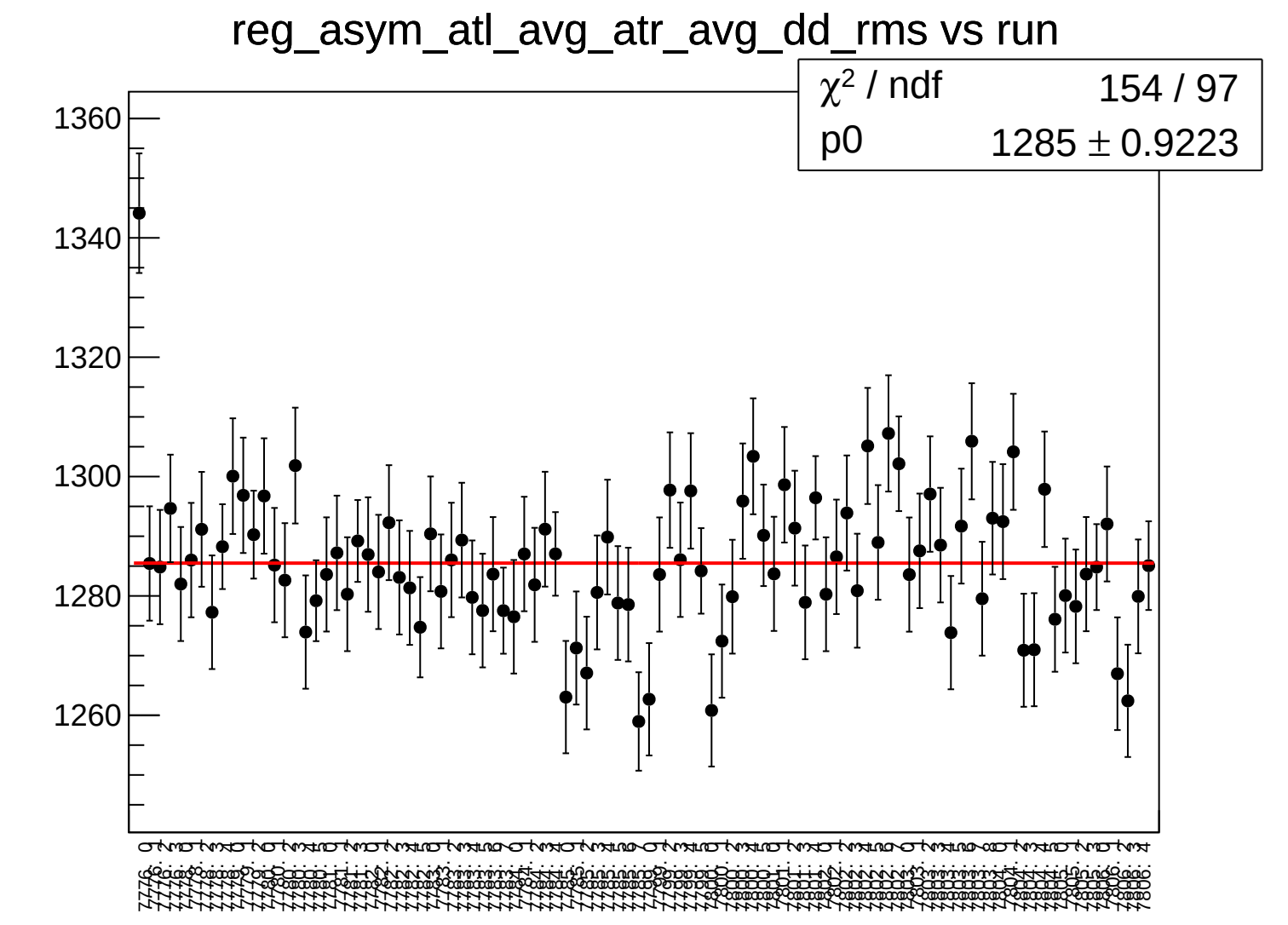

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.88 / 97
p0 −0.2533 ± 0.2676
pull
Entries 98
Mean 394.8
Std Dev 0
pull1D
Entries 98
Mean 0.01966
Std Dev 0.8855

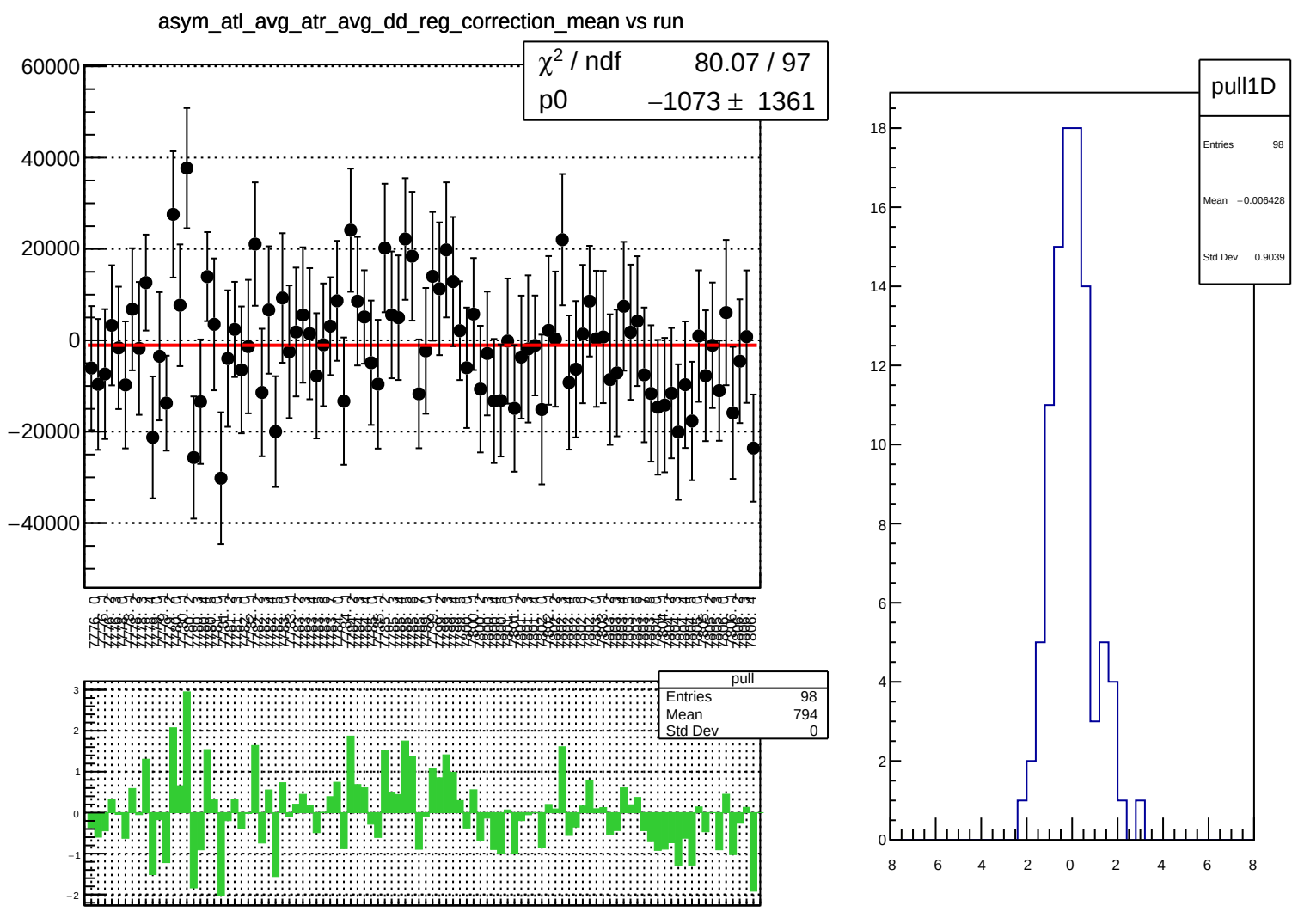

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.045e+04 / 97
p0 257.5 ± 0.1892
400
350
300
250
200

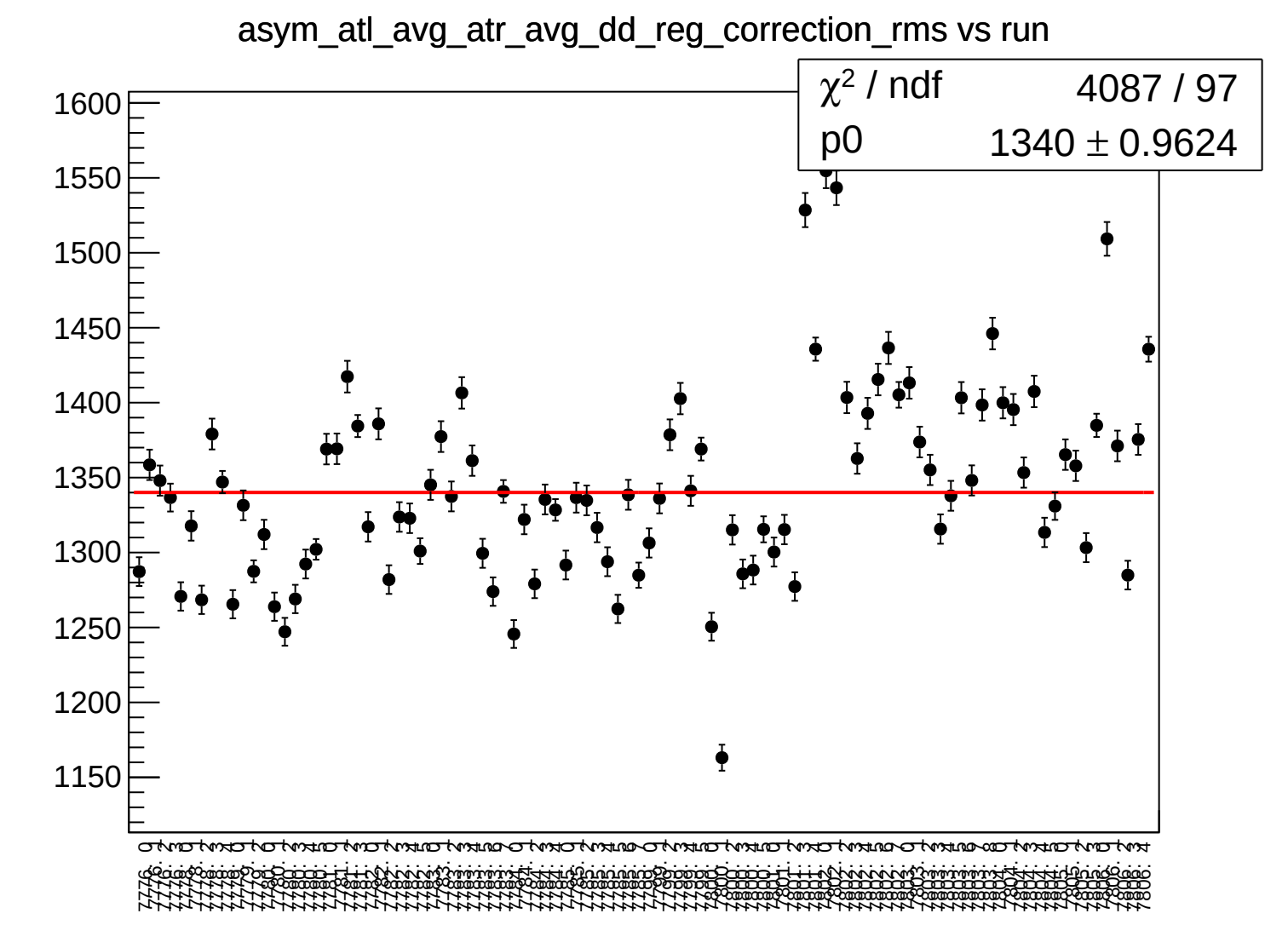

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.53 / 97
p0 −2.132e−13 ± 5.863e−13
60
40
20
0
−20
−40
pull
Entries 98
Mean −17.79
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.04925
Std Dev 0.8938
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

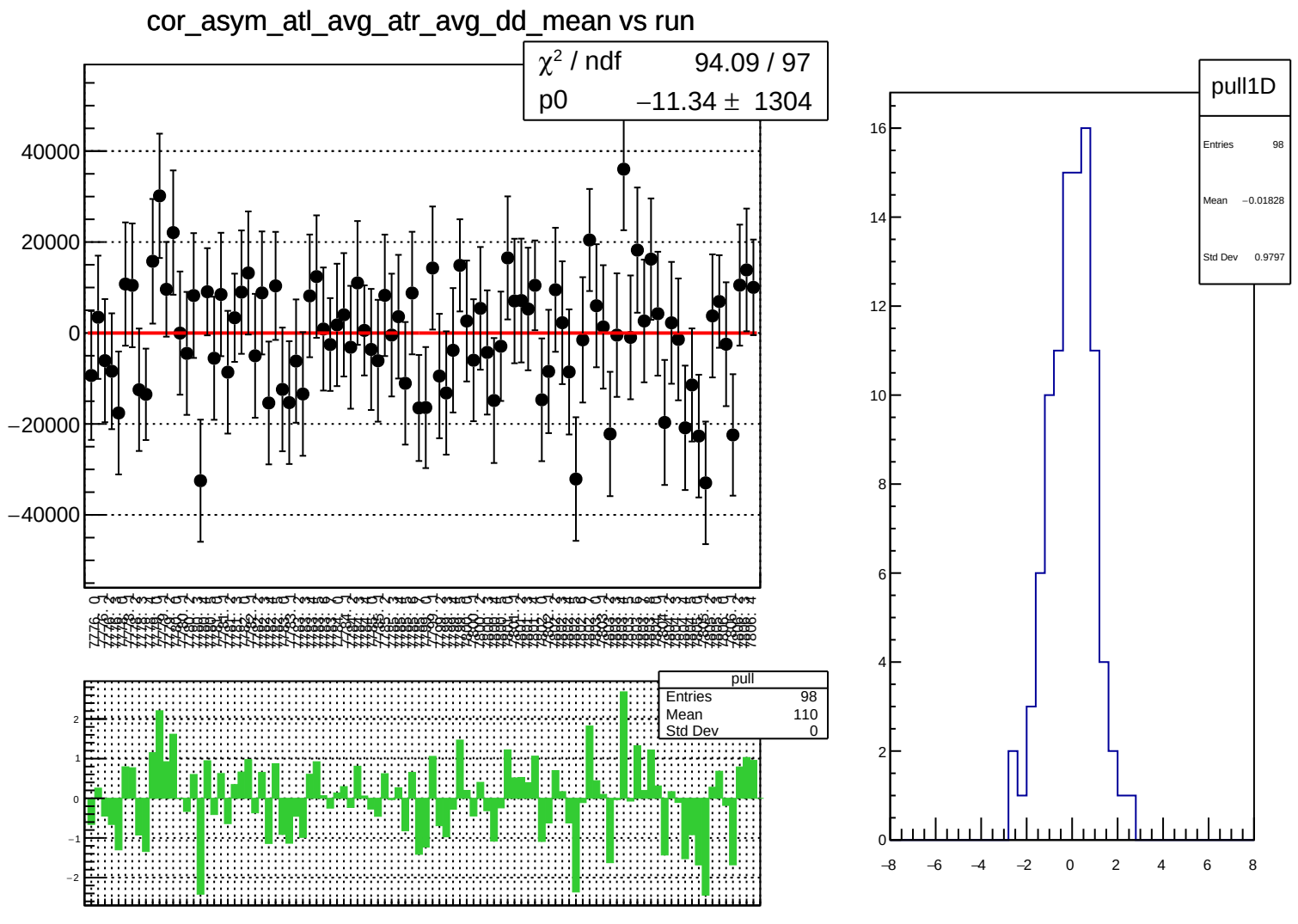

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.846e+05 / 97
p0 5.006e−10 ± 4.146e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

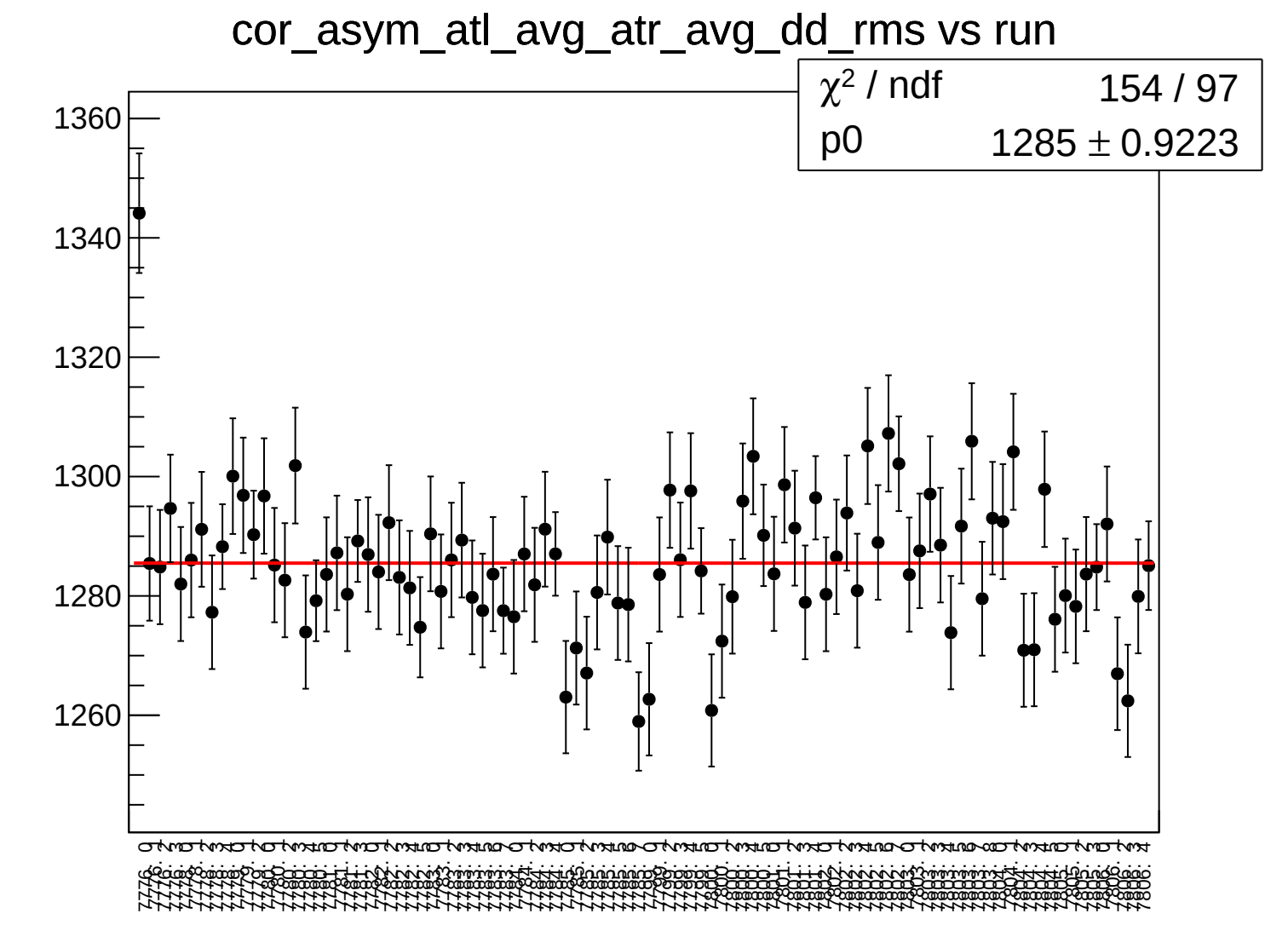

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 94.09 / 97
p0 −11.27 ± 1304
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 110
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01827
Std Dev 0.9797
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

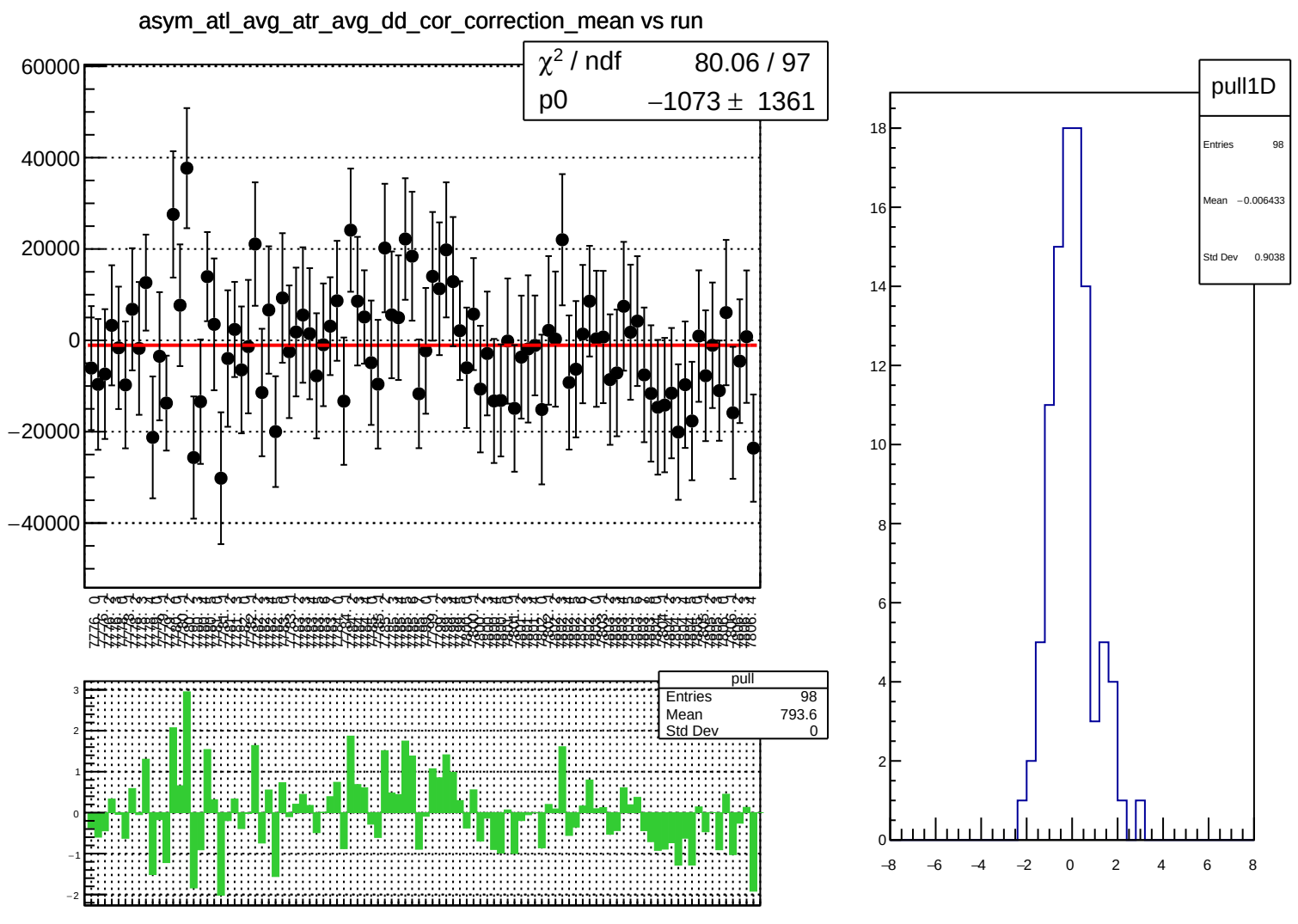

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 154 / 97
p0 1285 ± 0.9223
1360
1340
1320
1300
1280
1260

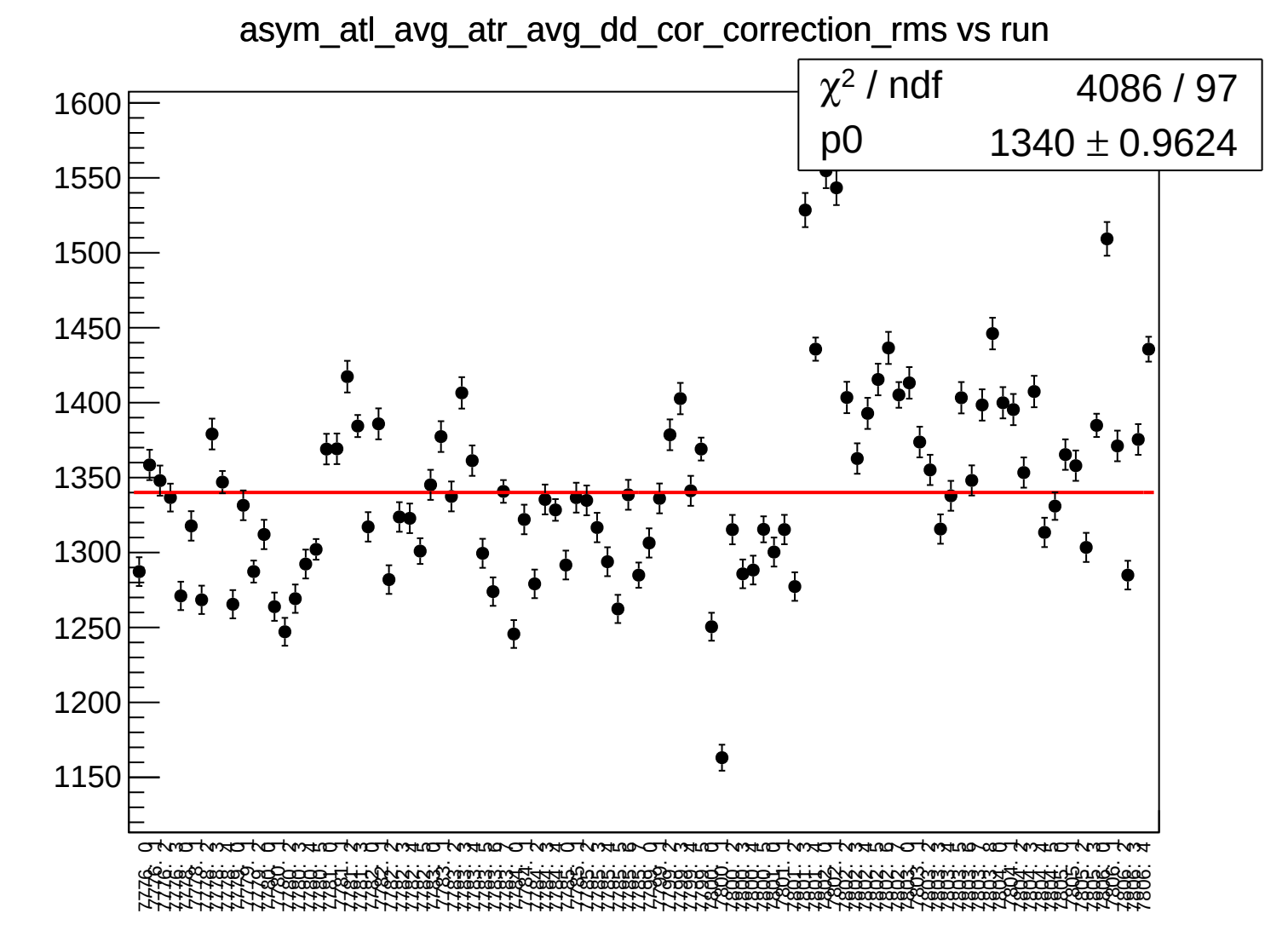

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 80.07 / 97
p0 −1073 ± 1361
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 794
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.006428
Std Dev 0.9039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

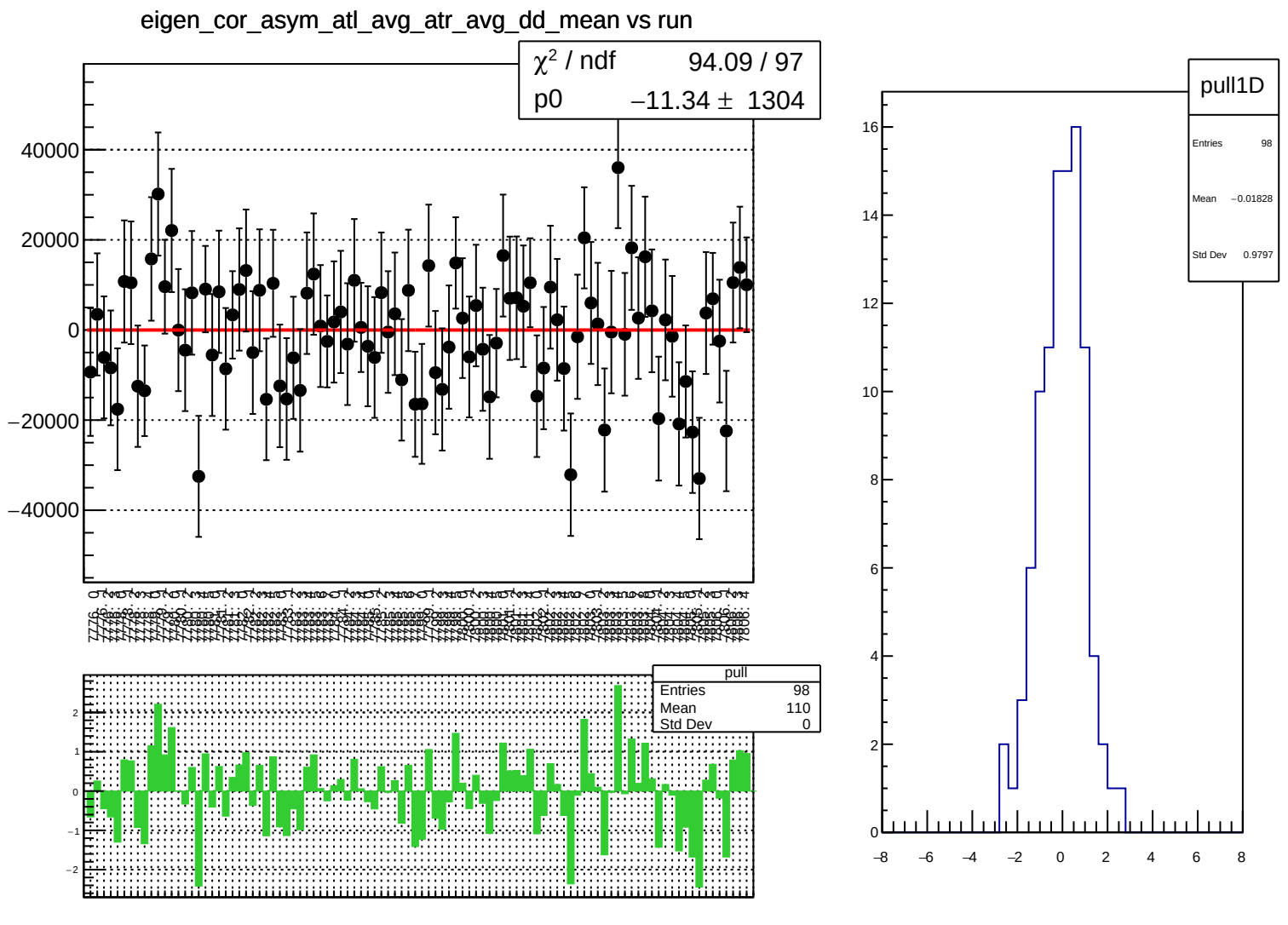

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 4087 / 97
p0 1340 ± 0.9624
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

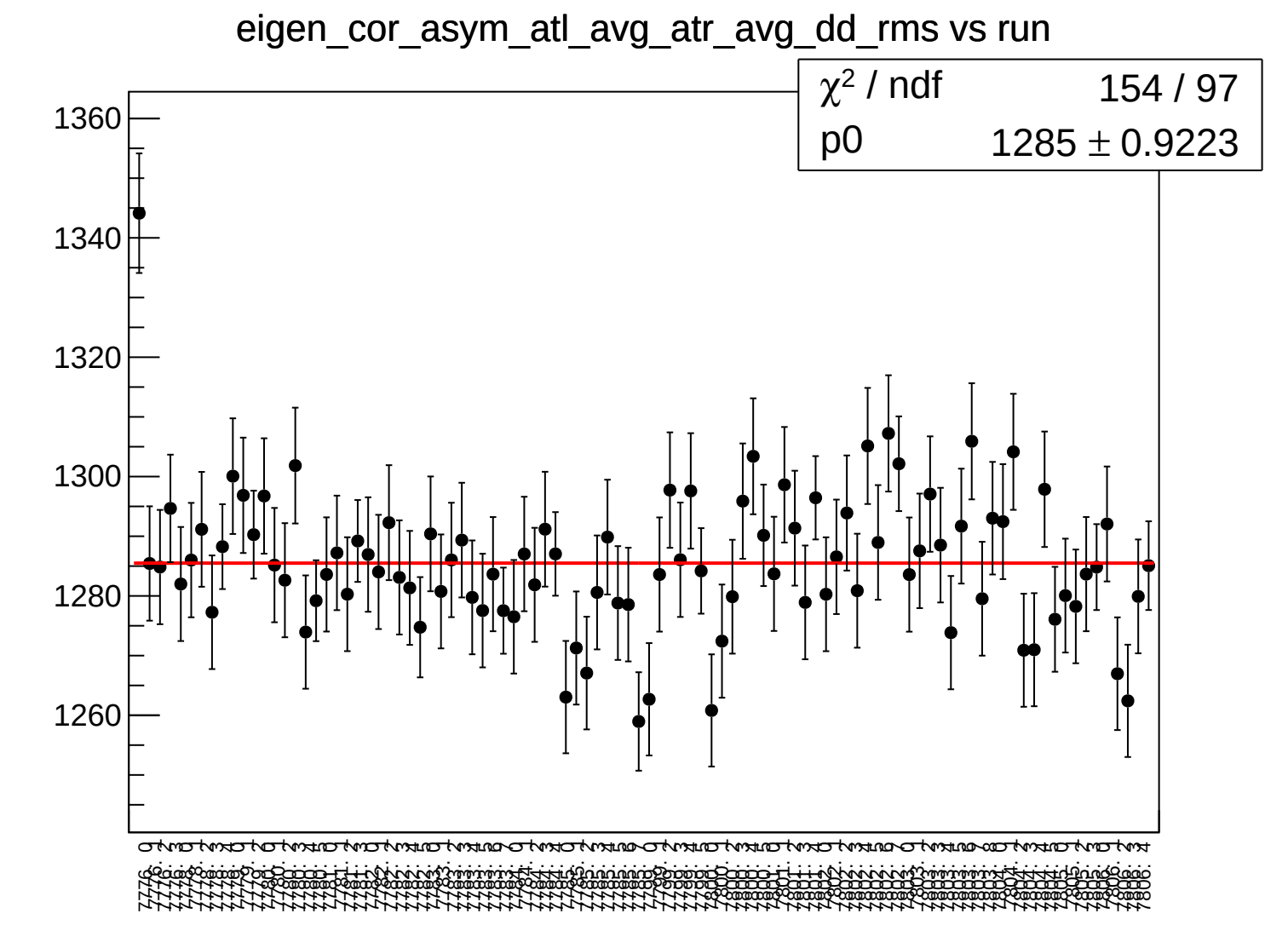

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 94.09 / 97
p0 −11.34 ± 1304
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 110
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01828
Std Dev 0.9797
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

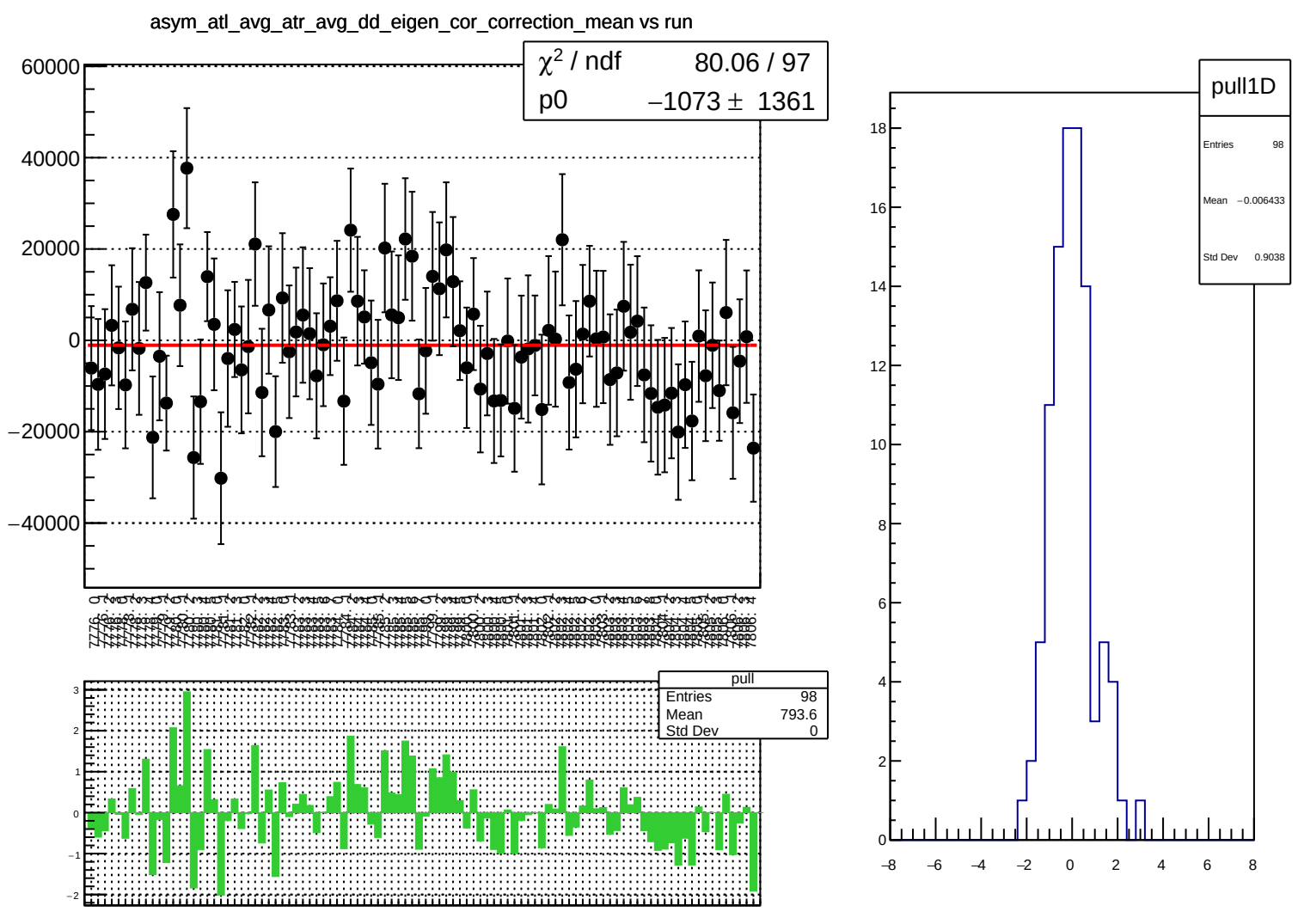

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 154 / 97
p0 1285 ± 0.9223
1360
1340
1320
1300
1280
1260

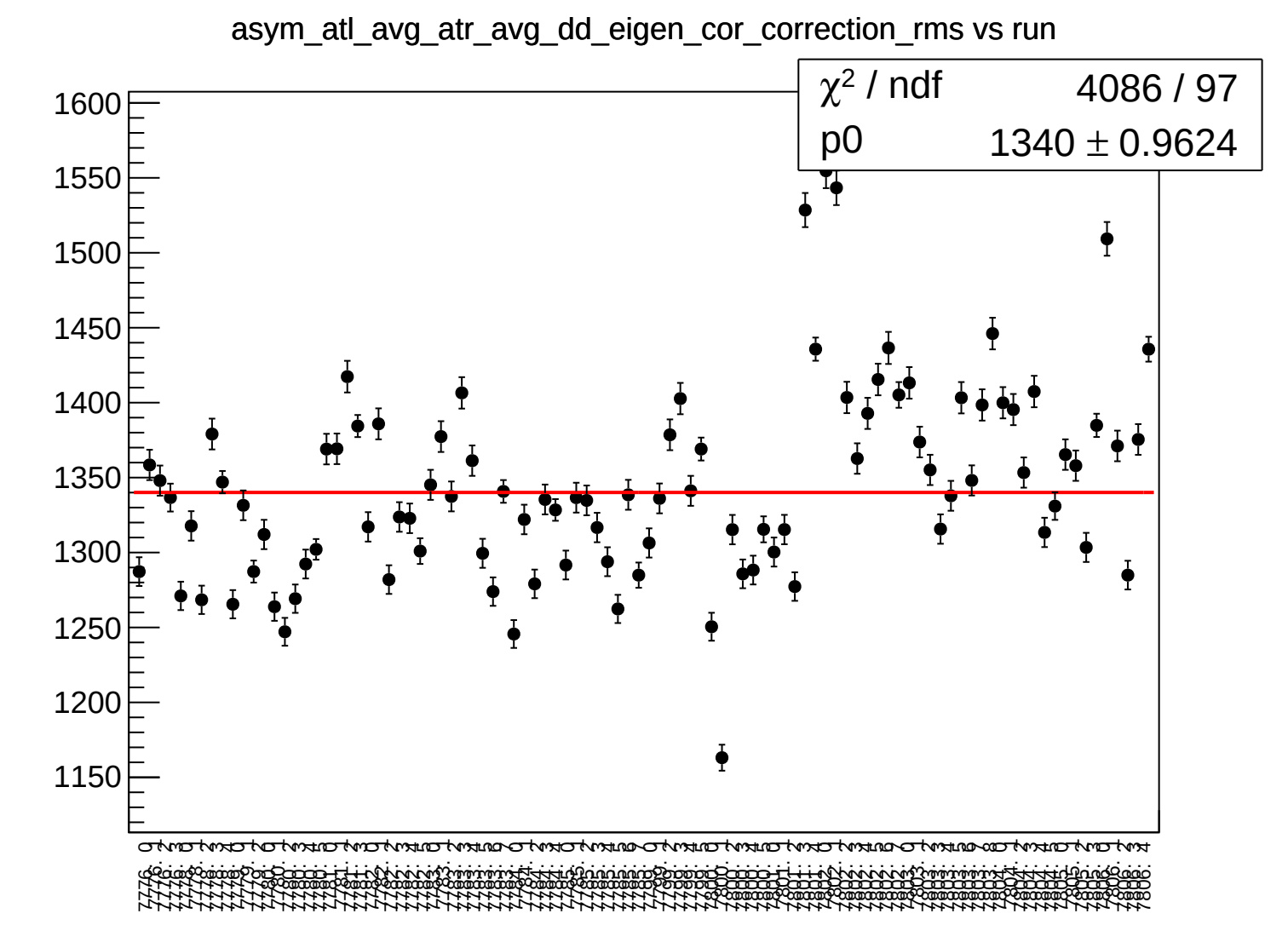

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 80.06 / 97
p0 −1073 ± 1361
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 793.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.006433
Std Dev 0.9038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

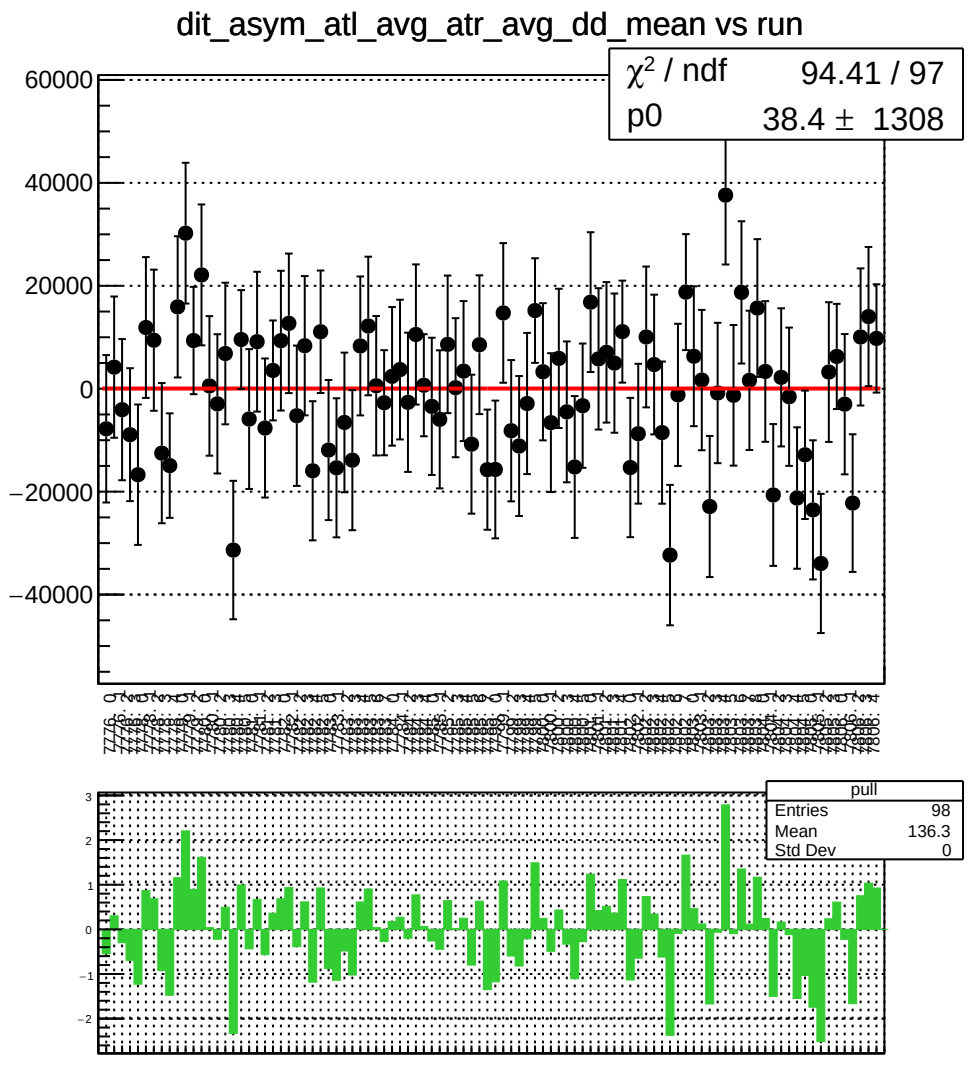

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 4086 / 97
p0 1340 ± 0.9624
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

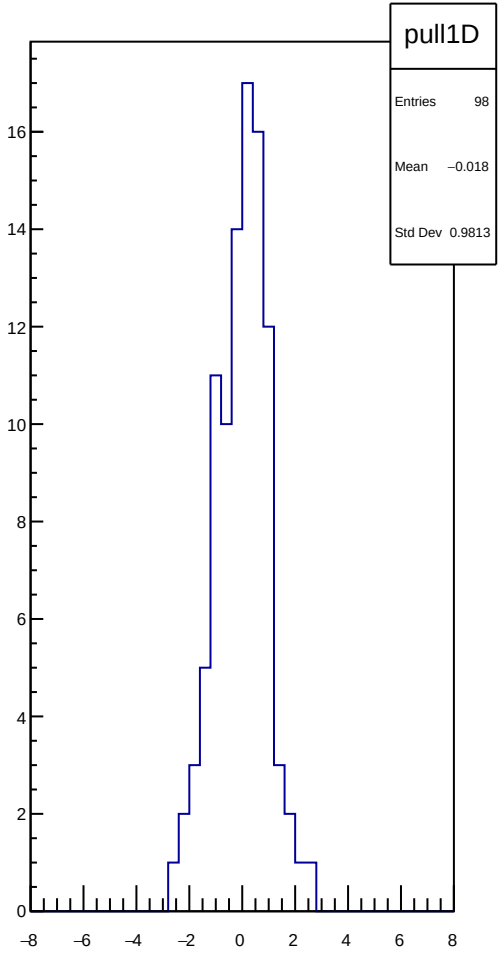

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 94.09 / 97
p0 −11.34 ± 1304
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 110
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01828
Std Dev 0.9797
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

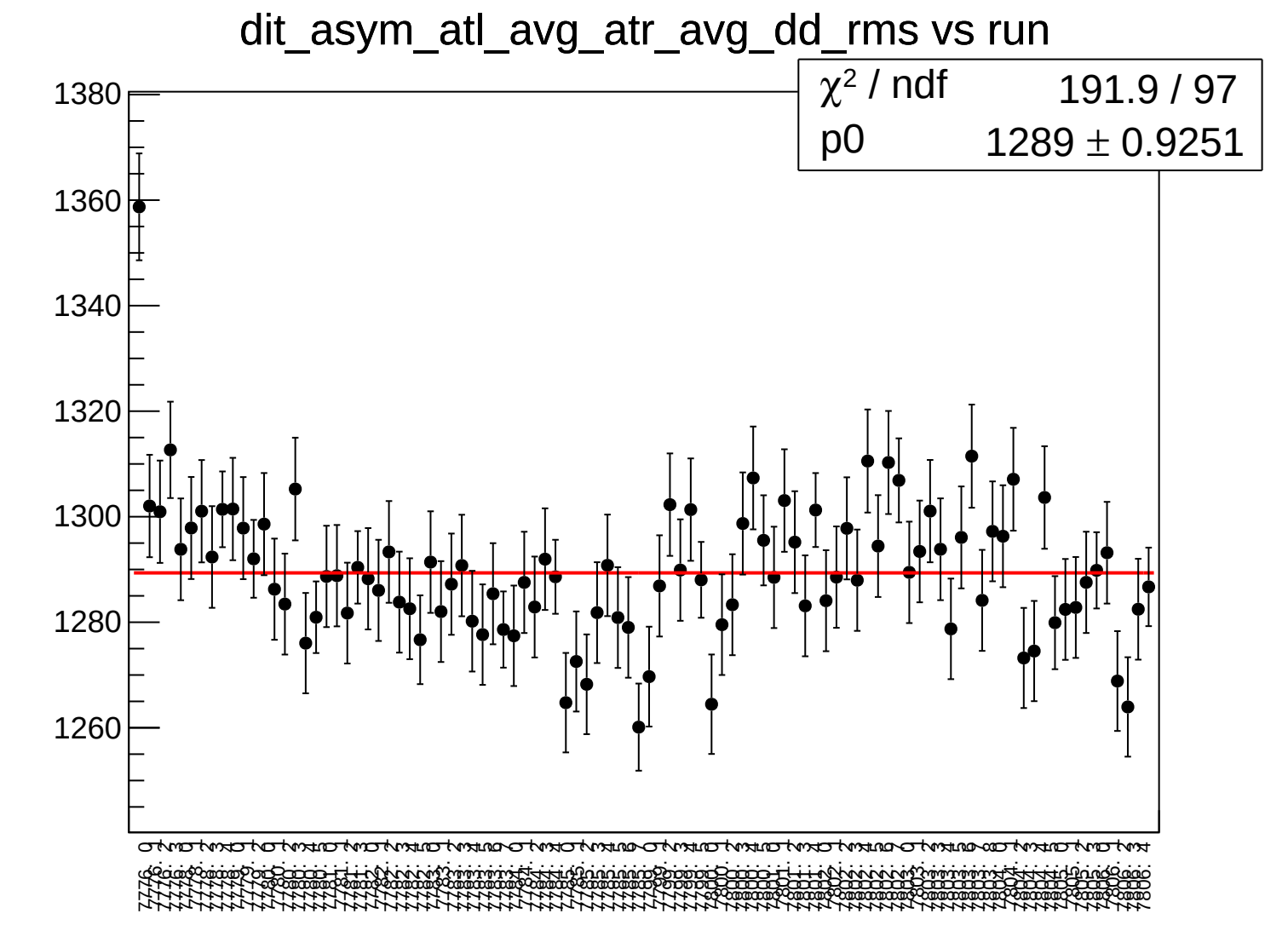

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 154 / 97
p0 1285 ± 0.9223
1360
1340
1320
1300
1280
1260

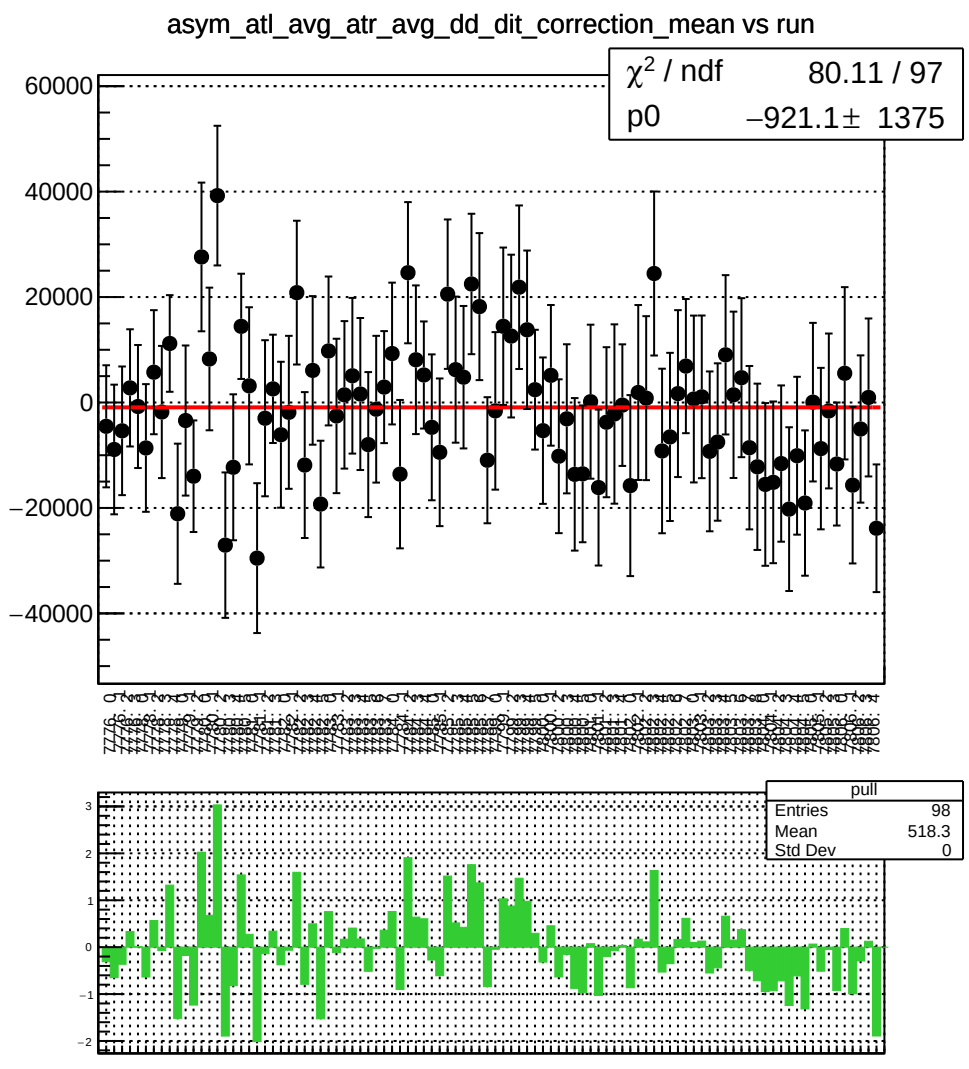

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.06 / 97
p0 −1073 ± 1361
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 793.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.006433
Std Dev 0.9038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

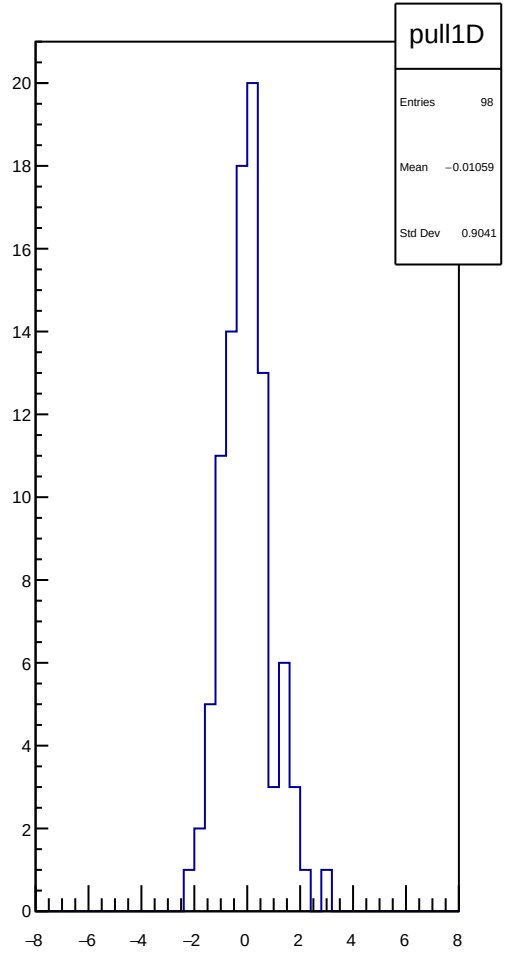

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4086 / 97
p0 1340 ± 0.9624
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

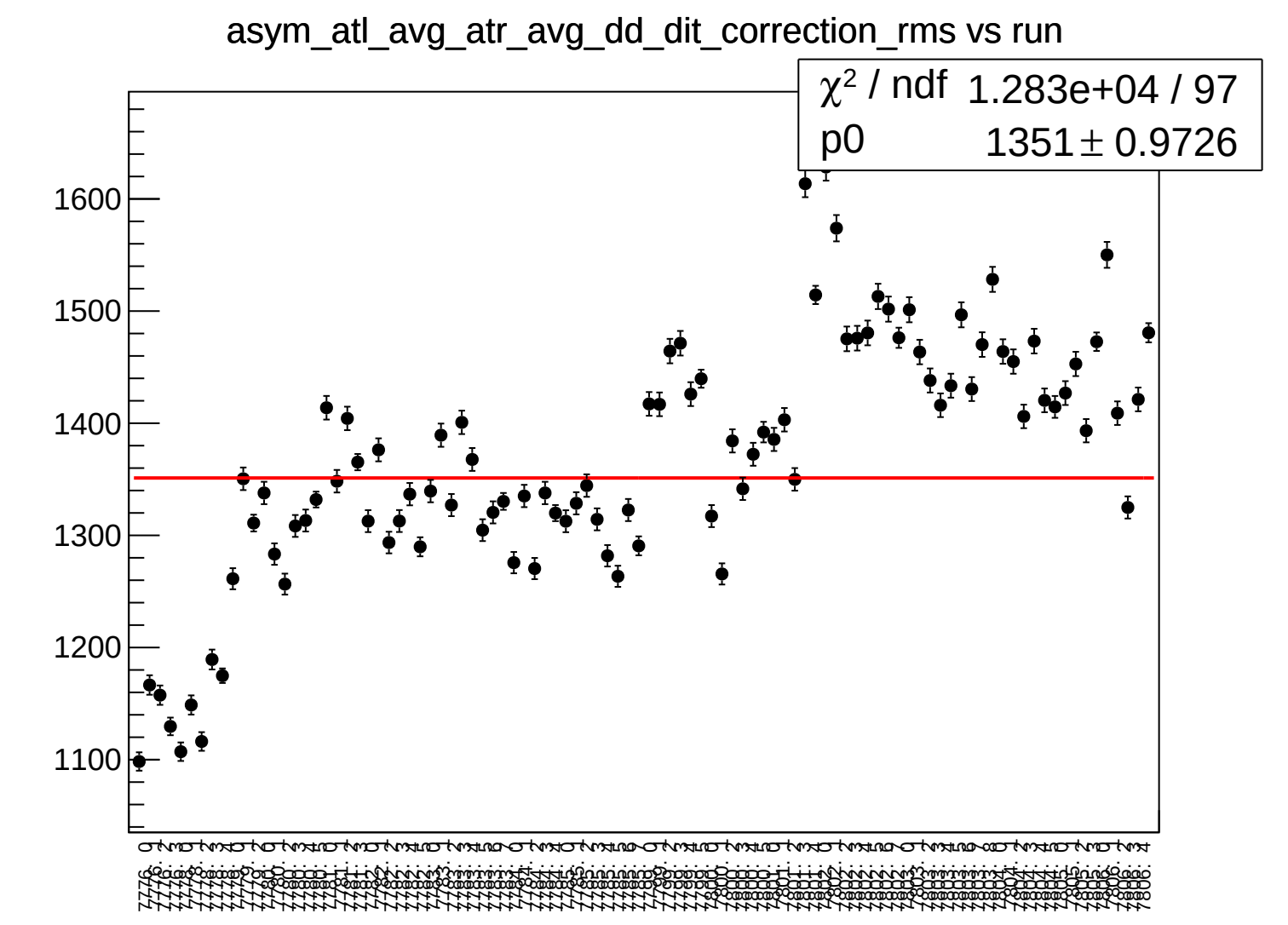

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 94.41 / 97
p0 38.4 ± 1308
pull
Entries 98
Mean 136.3
Std Dev 0

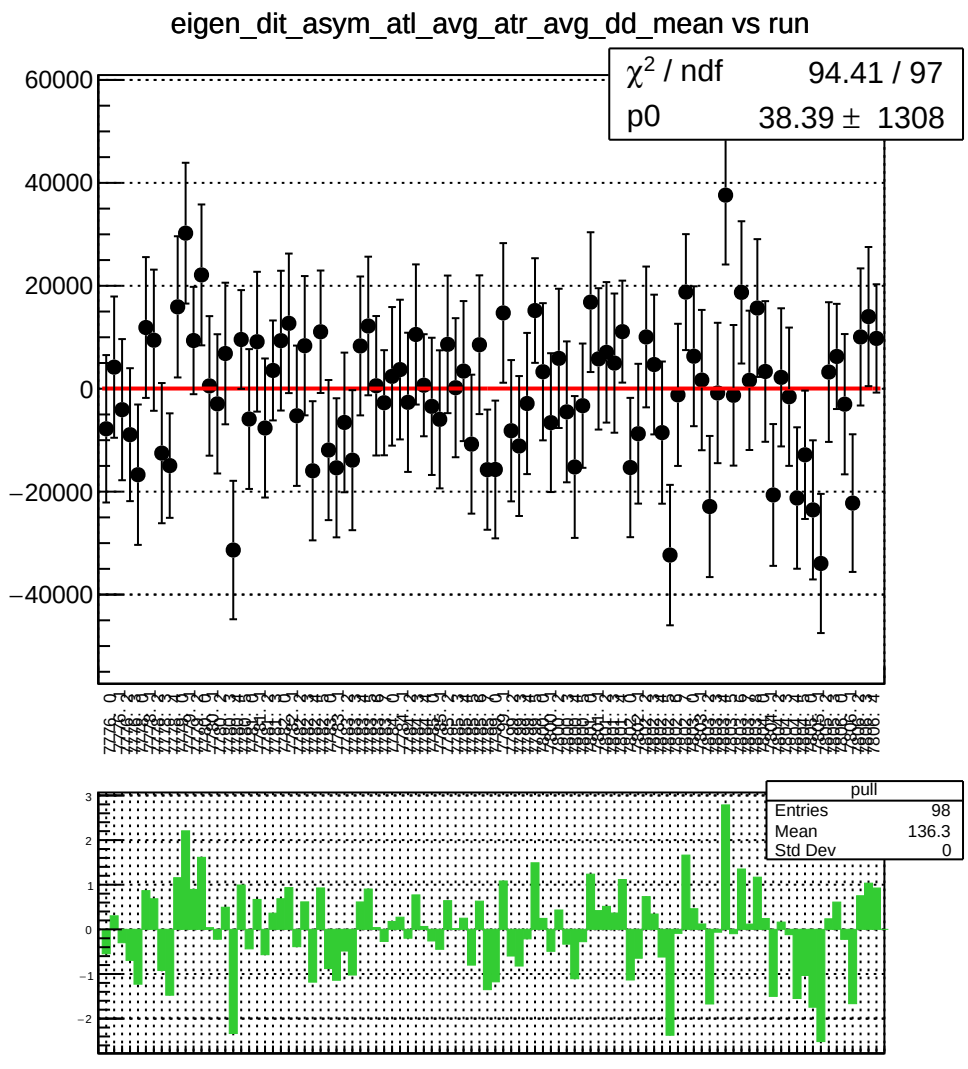

pull1D
Entries 98
Mean −0.018
Std Dev 0.9813

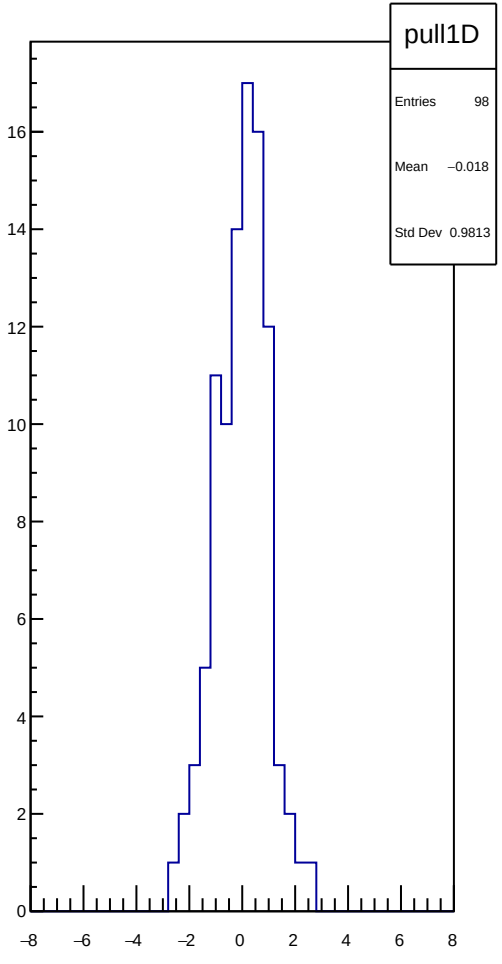

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 191.9 / 97
p0 1289 ± 0.9251
1380
1360
1340
1320
1300
1280
1260

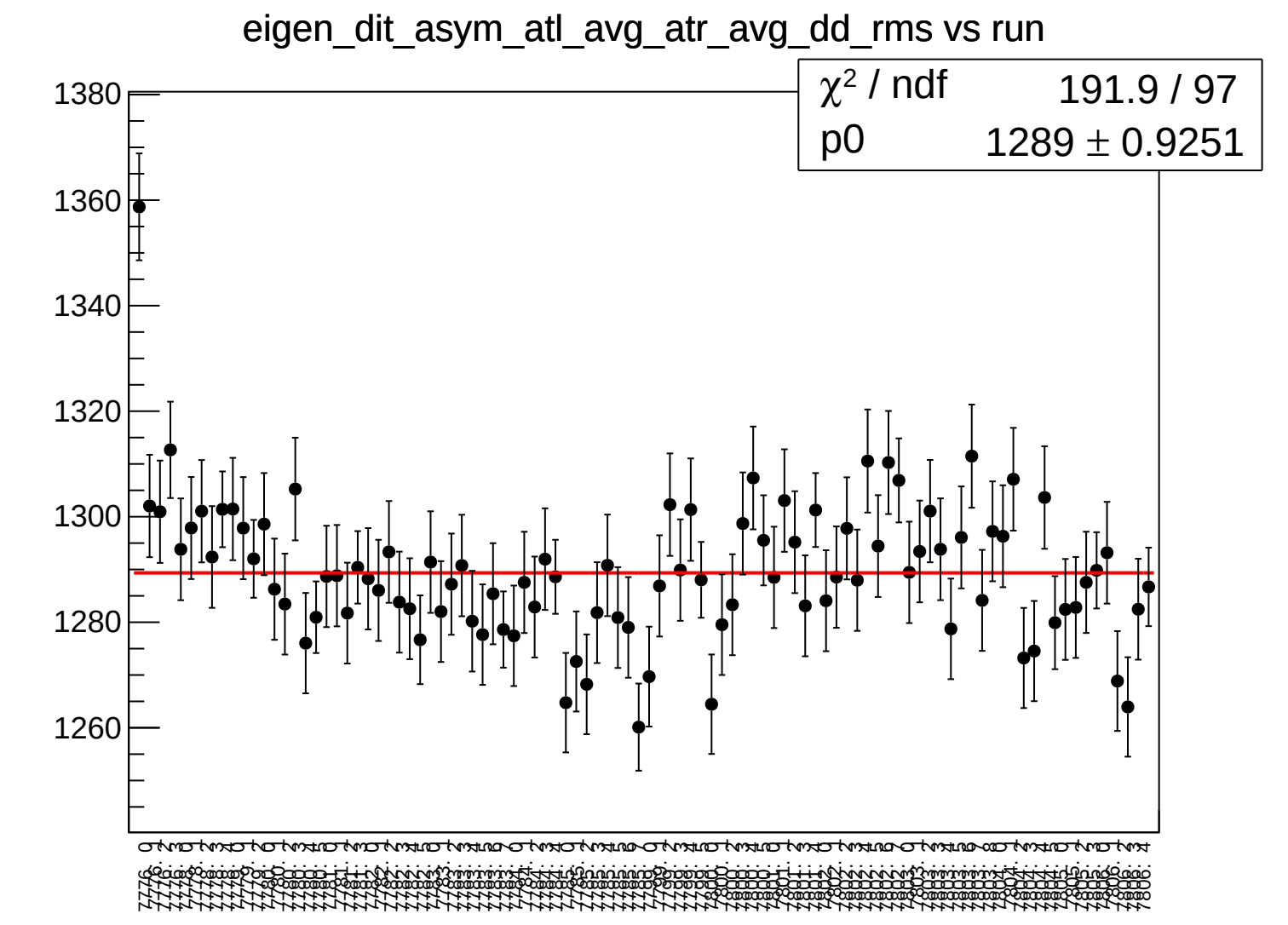

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 80.11 / 97
p0 −921.1± 1375
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 518.3
Std Dev 0
3
2
1
0
−1
−2

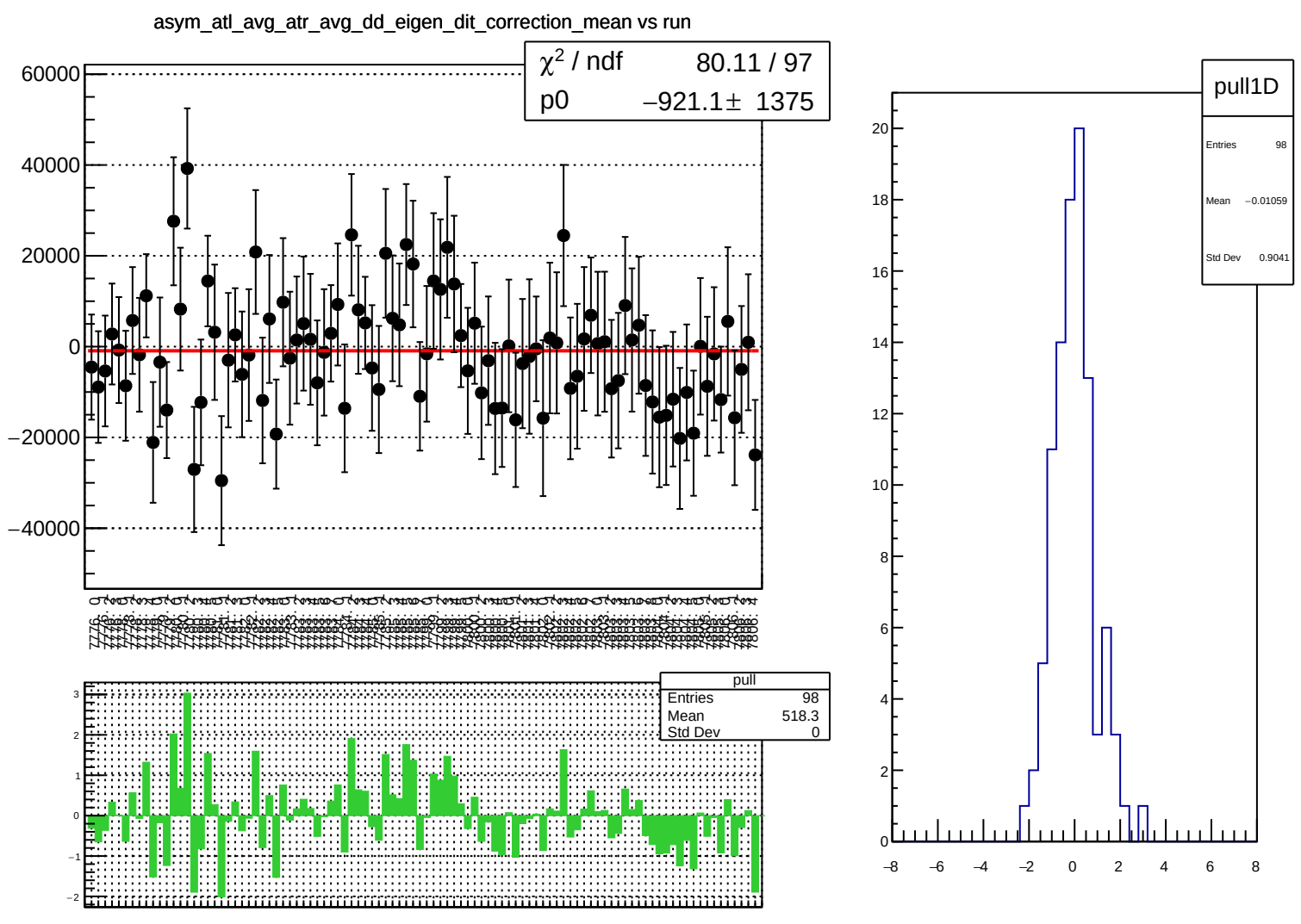

pull1D
Entries 98
Mean −0.01059
Std Dev 0.9041
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

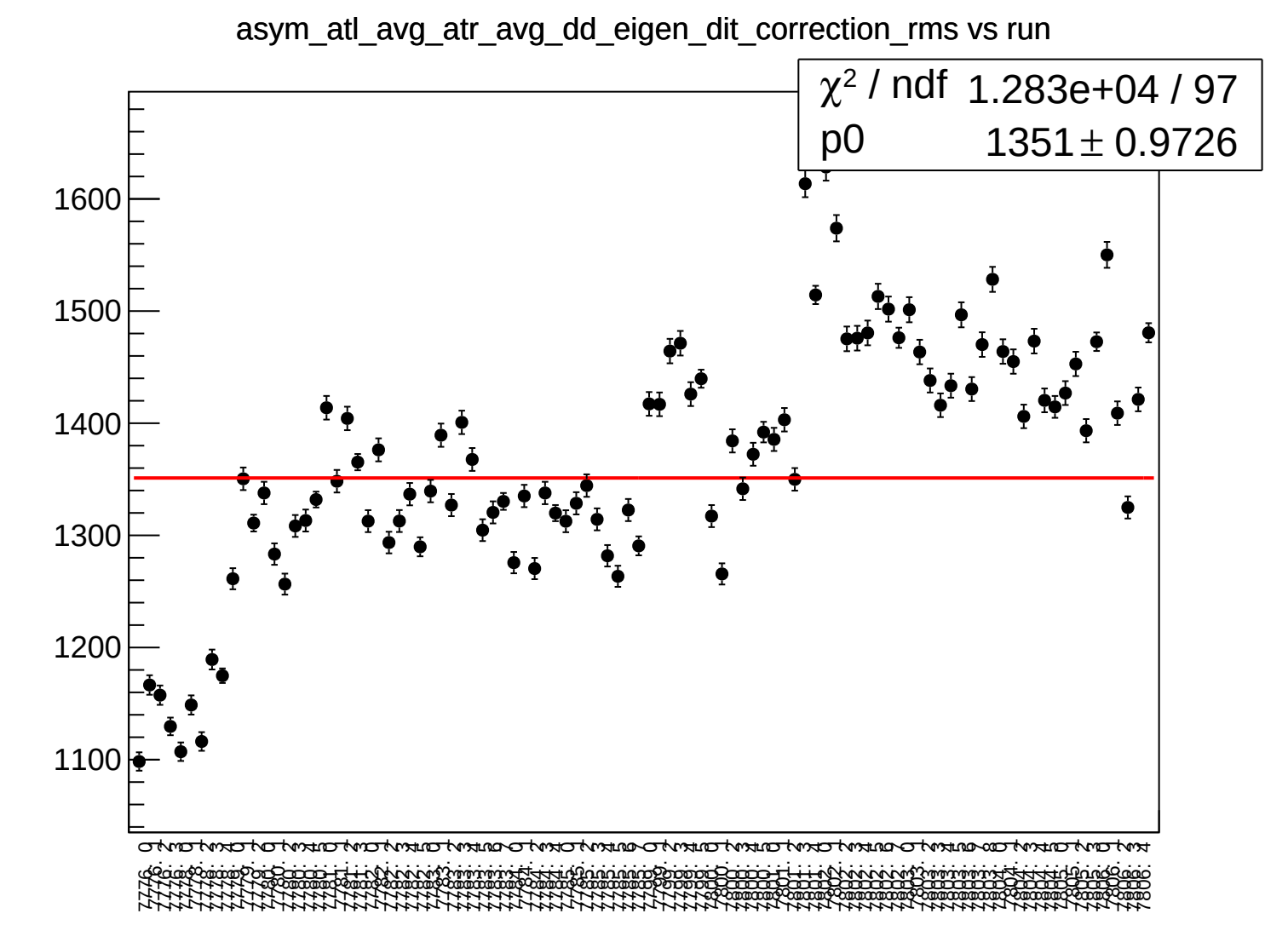

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.283e+04 / 97
p0 1351 ± 0.9726
1600
1500
1400
1300
1200
1100

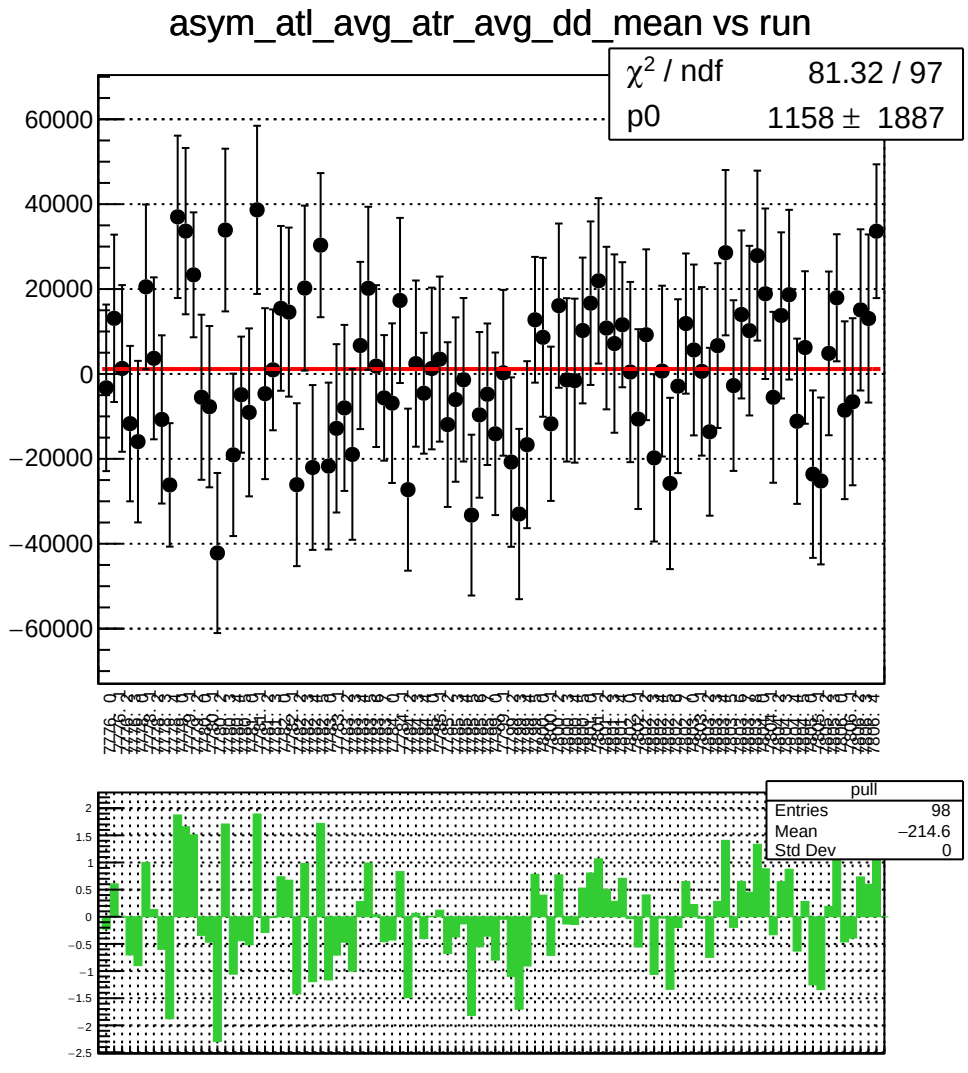

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 94.41 / 97
p0 38.39 ± 1308
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 136.3
Std Dev 0
3
2
1
0
−1
−2

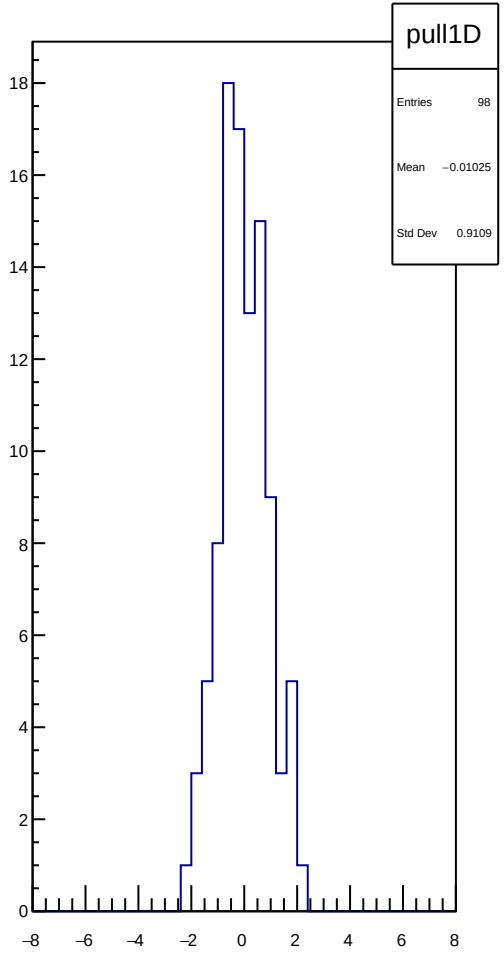

pull1D
Entries 98
Mean −0.018
Std Dev 0.9813
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

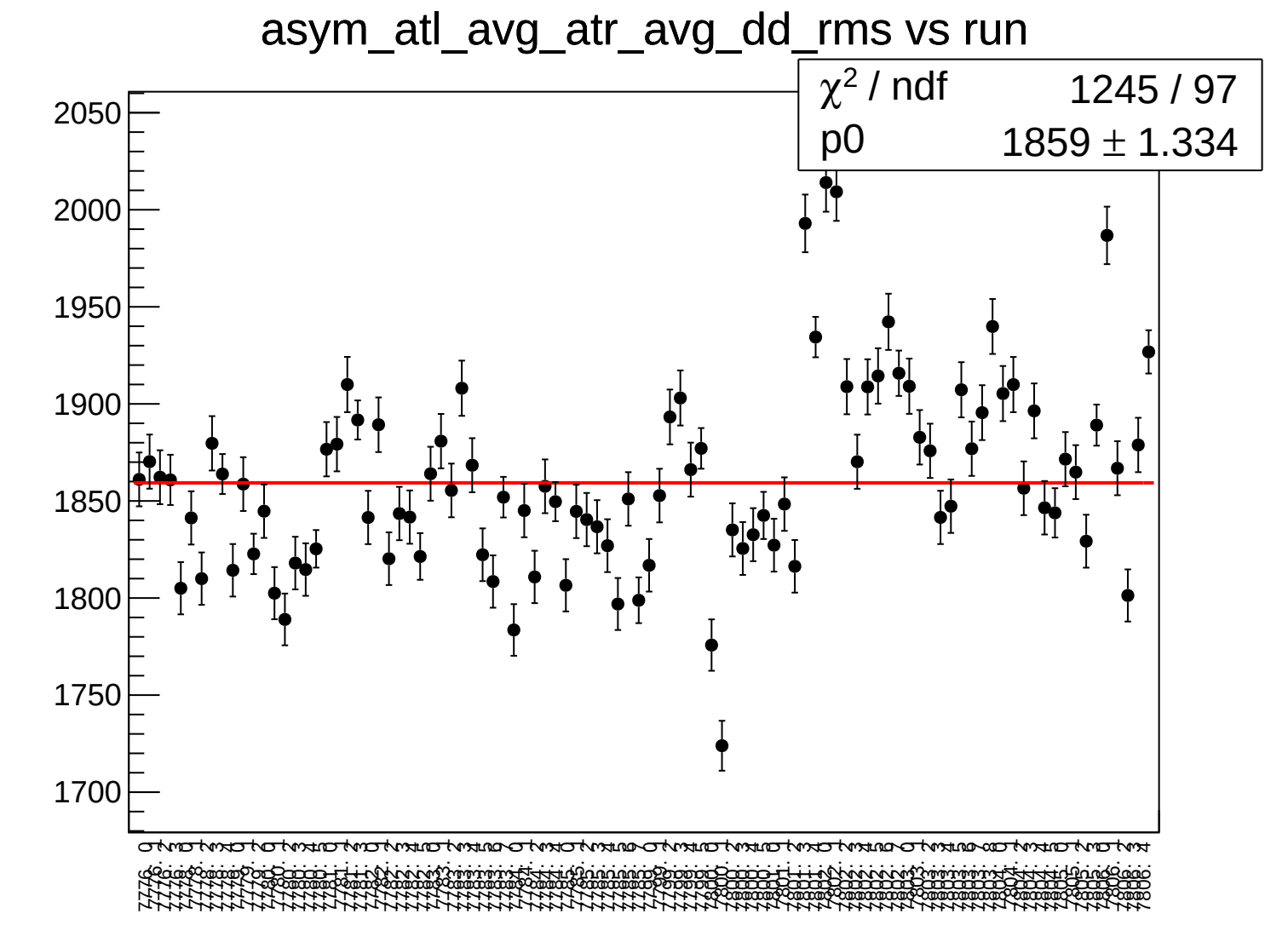

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 191.9 / 97
p0 1289 ± 0.9251
1380
1360
1340
1320
1300
1280
1260

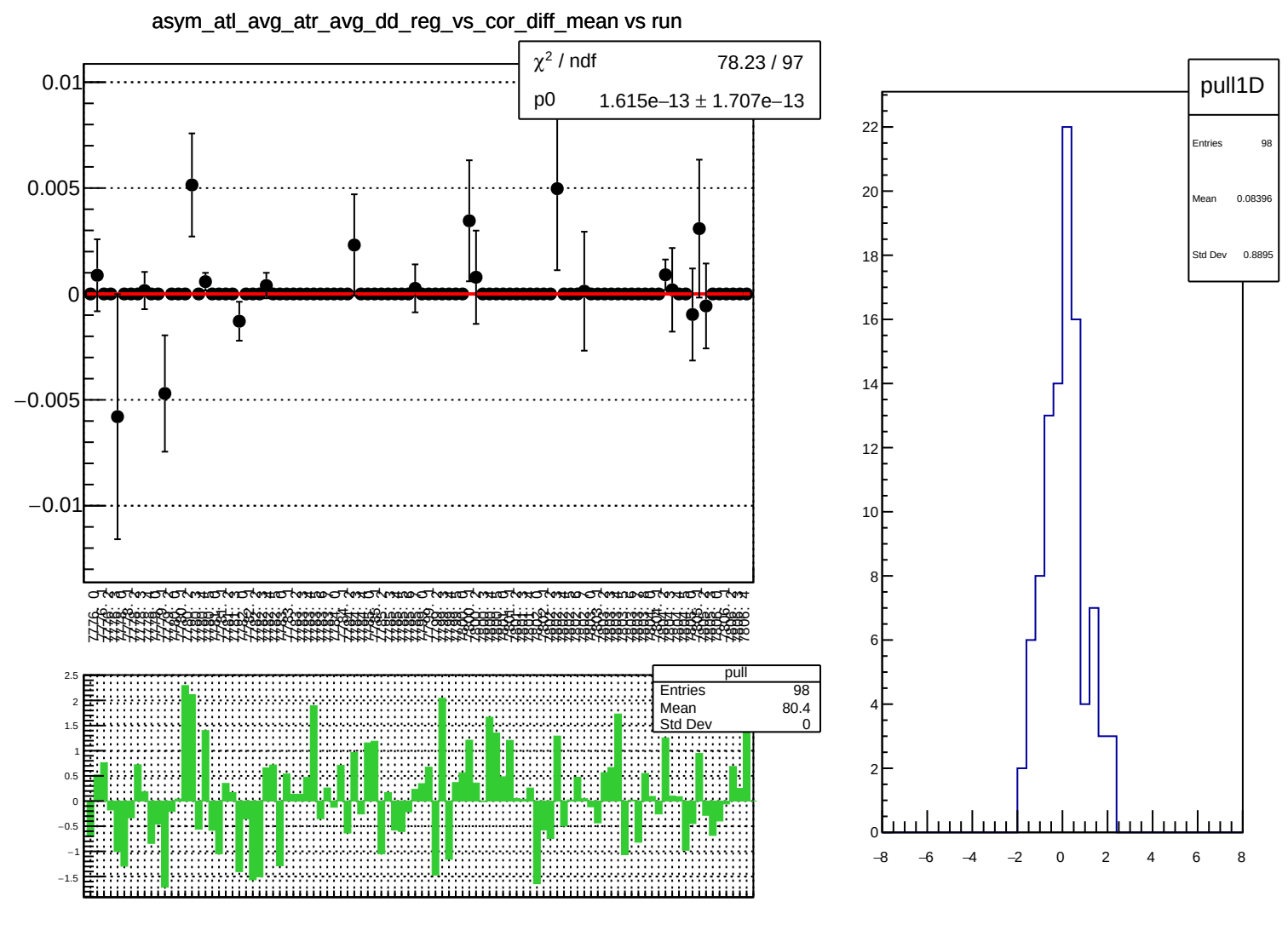

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.11 / 97
p0 −921.1± 1375
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 518.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01059
Std Dev 0.9041
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

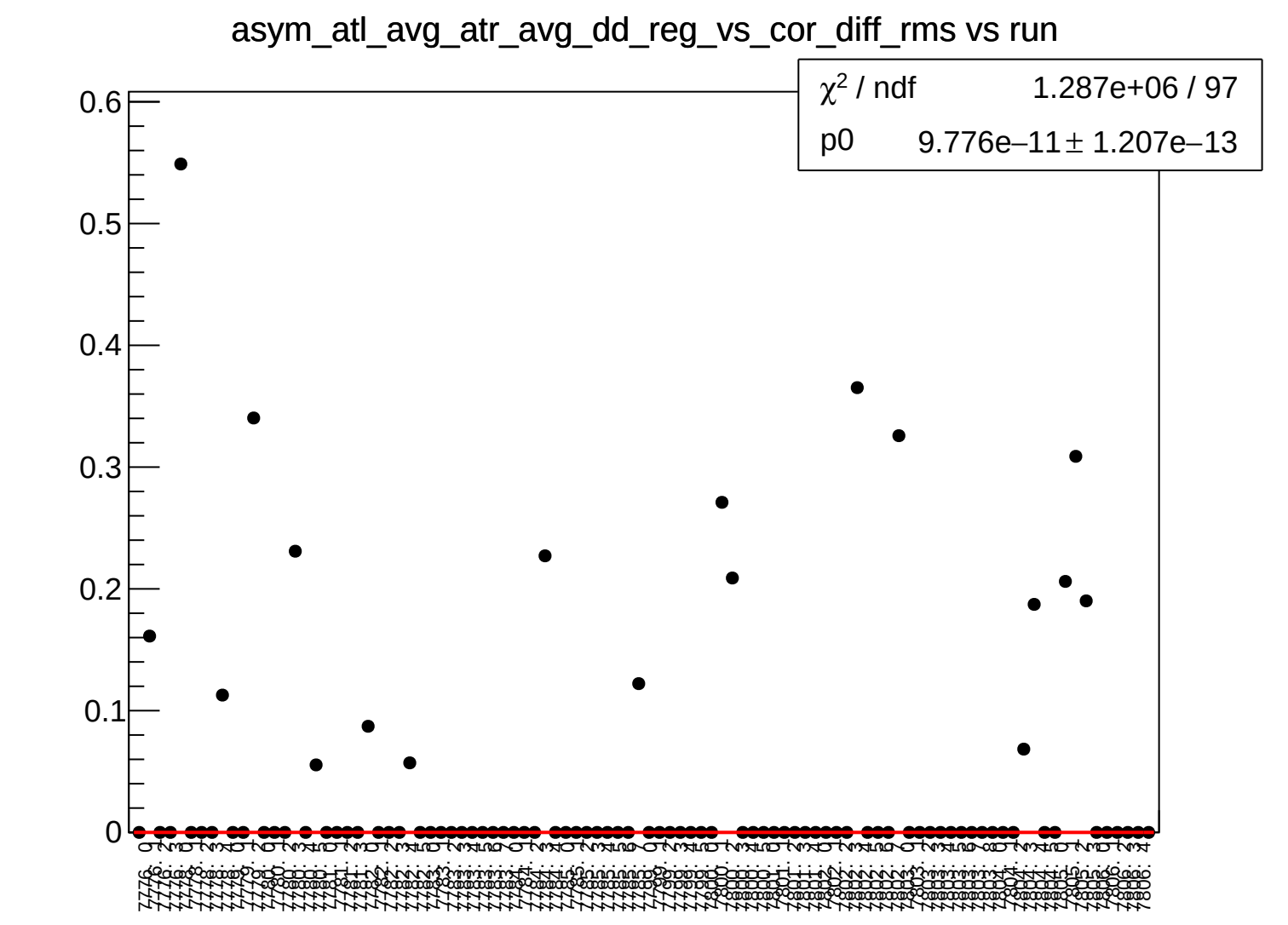

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.283e+04 / 97
p0 1351 ± 0.9726
1600
1500
1400
1300
1200
1100

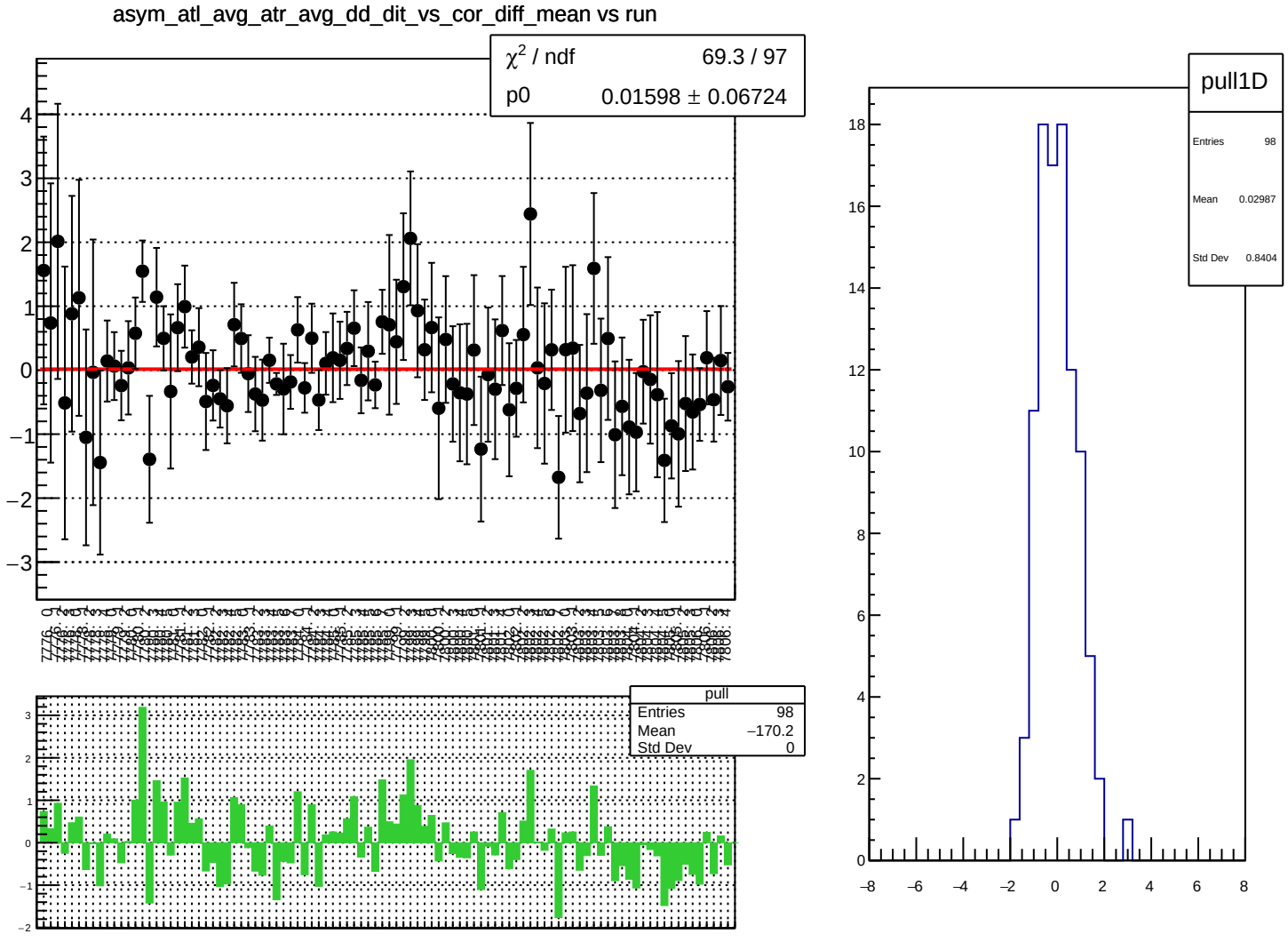

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 81.32 / 97
p0 1158 ± 1887
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −214.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

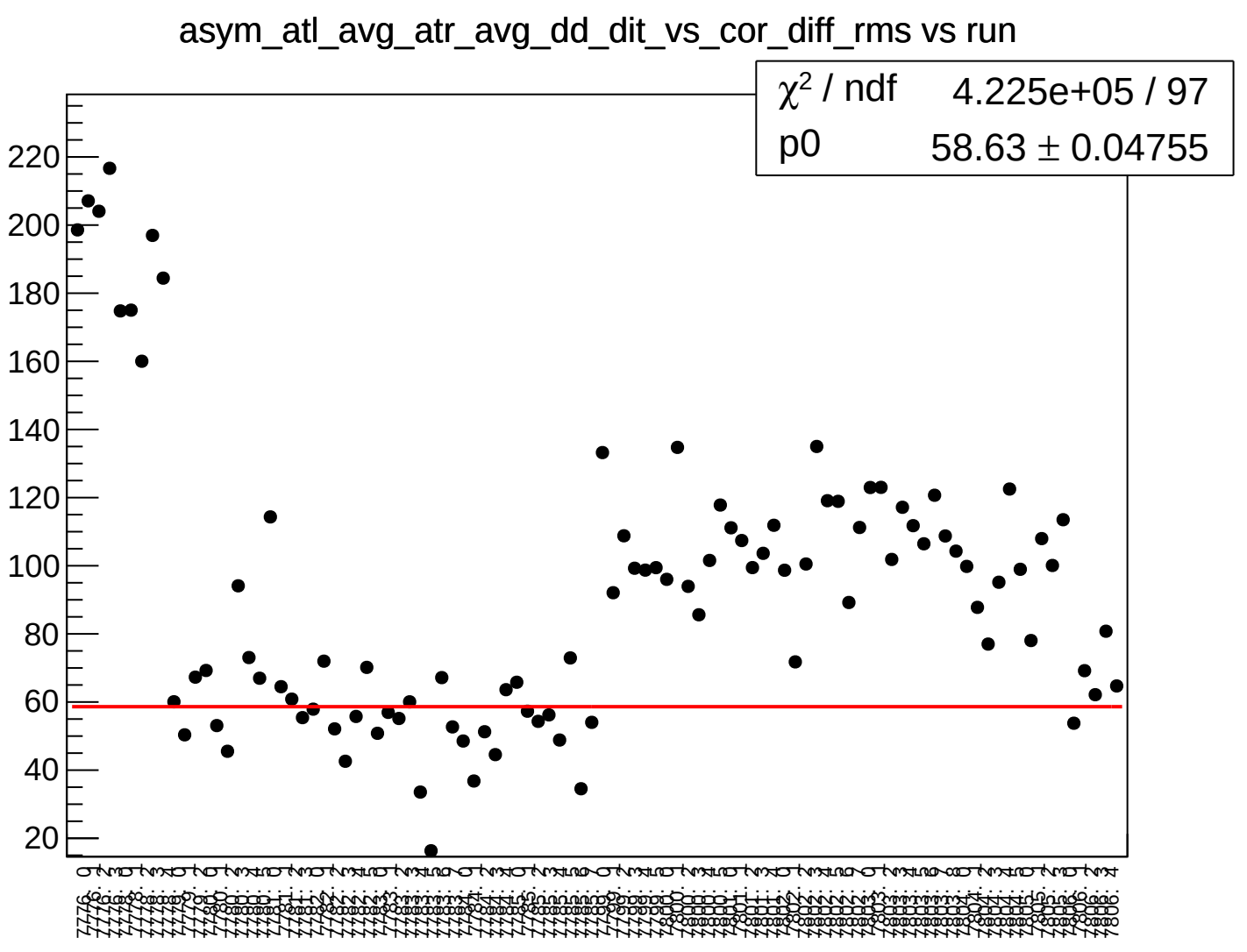

pull1D
Entries 98
Mean −0.01025
Std Dev 0.9109
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

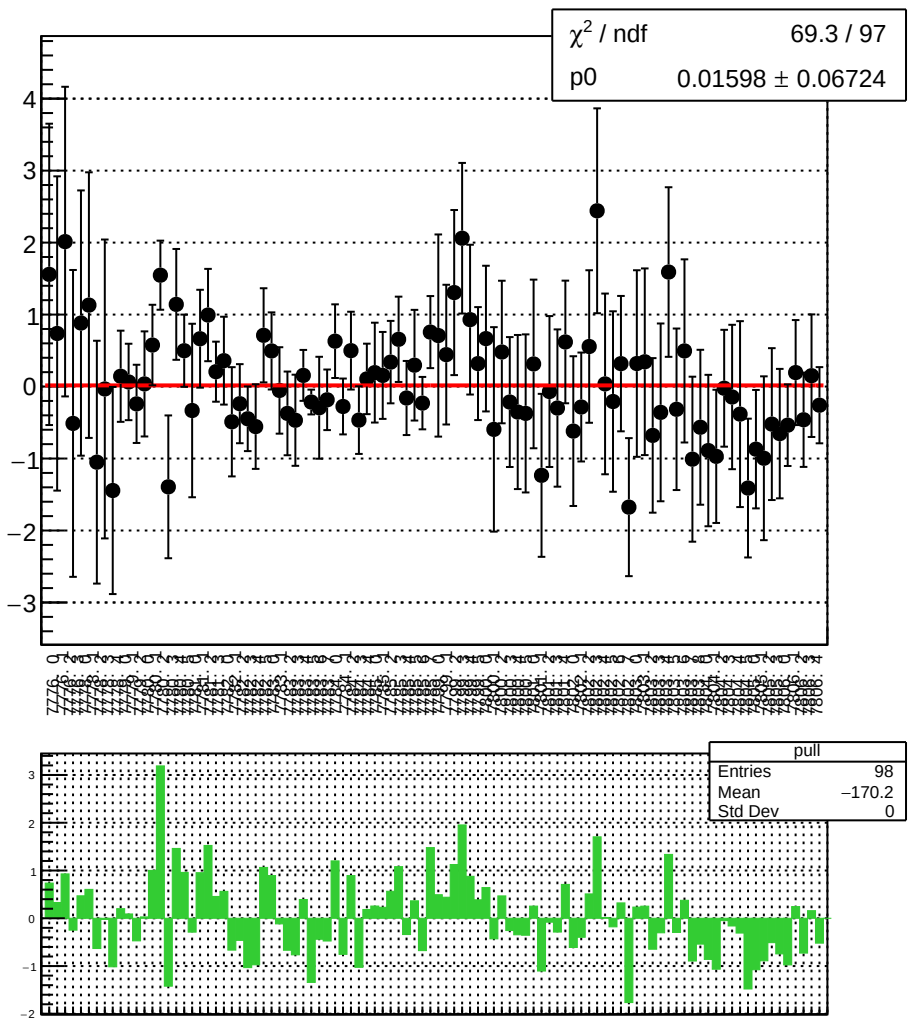

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1245 / 97
p0 1859 ± 1.334
2050
2000
1950
1900
1850
1800
1750
1700

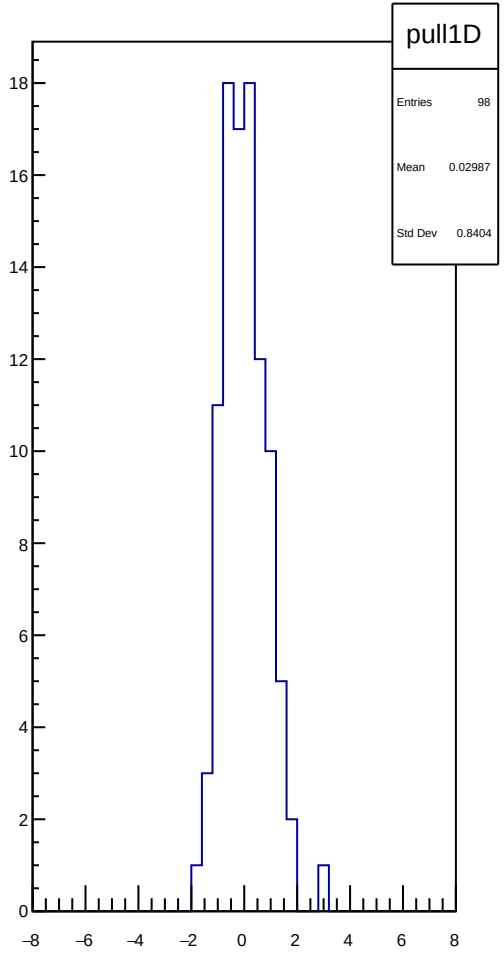

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.23 / 97
p0 1.615e−13 ± 1.707e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 98
Mean 80.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.08396
Std Dev 0.8895
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

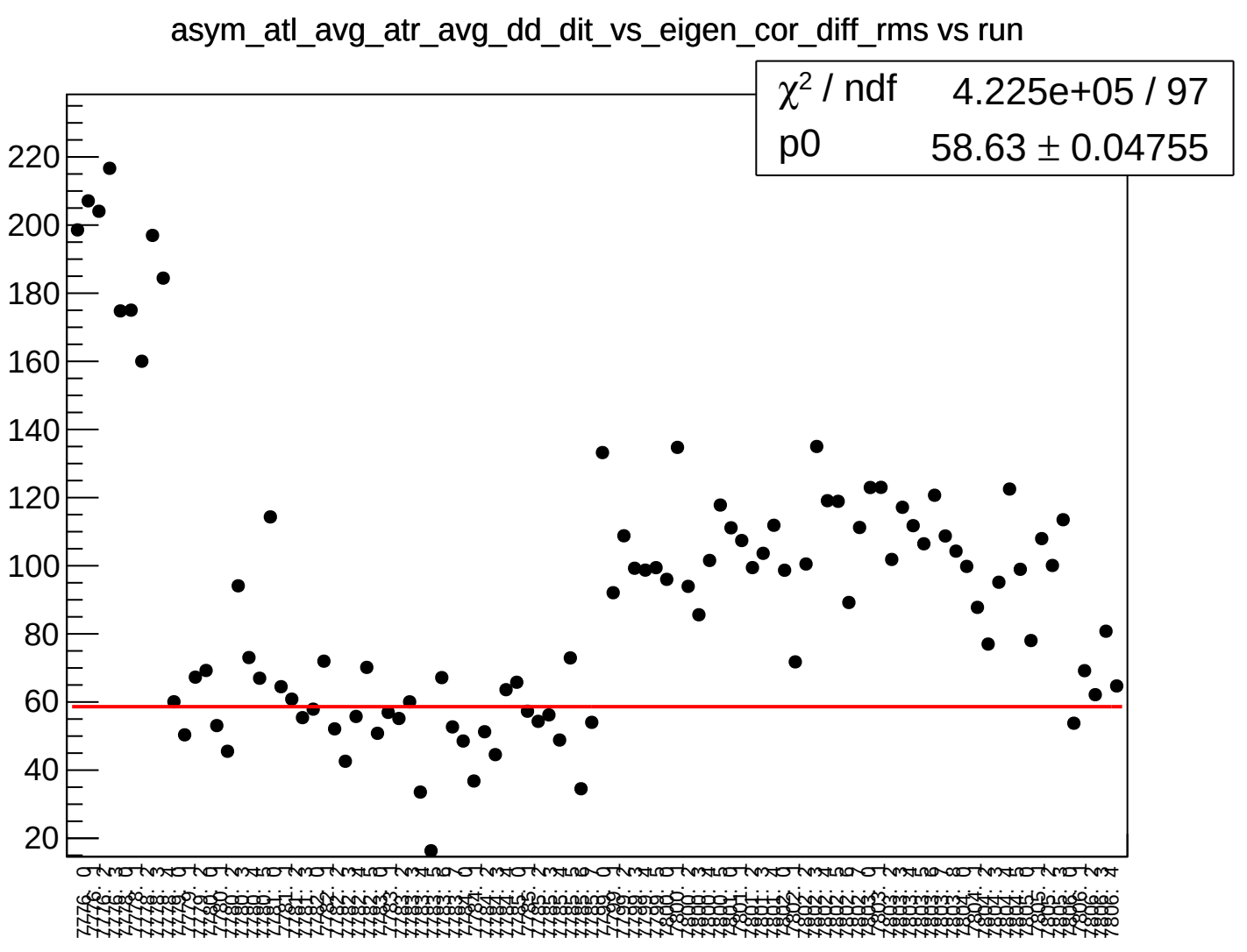

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.287e+06 / 97
p0 9.776e−11 ± 1.207e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

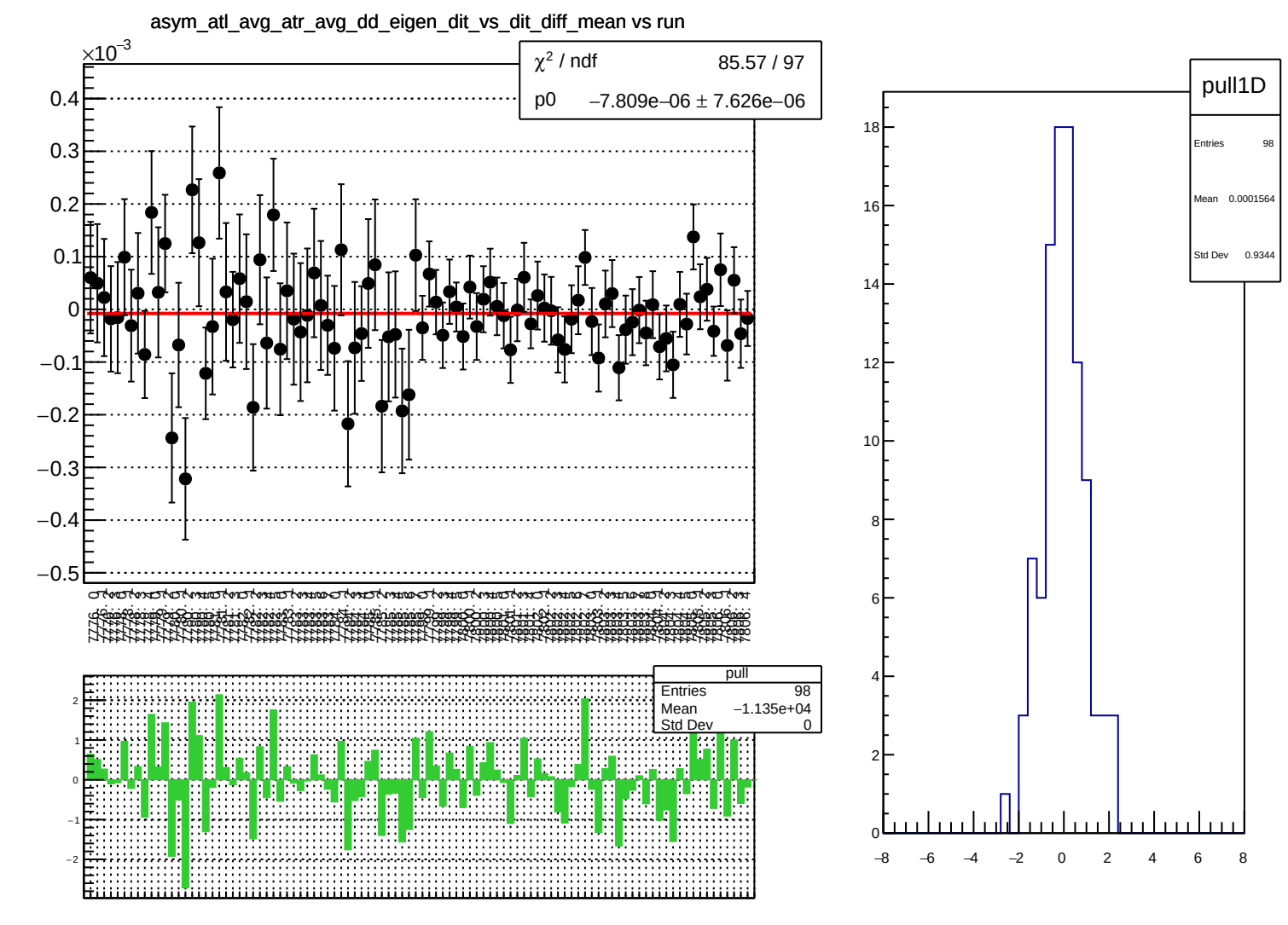

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.3 / 97
p0 0.01598 ± 0.06724
pull
Entries 98
Mean −170.2
Std Dev 0
pull1D
Entries 98
Mean 0.02987
Std Dev 0.8404

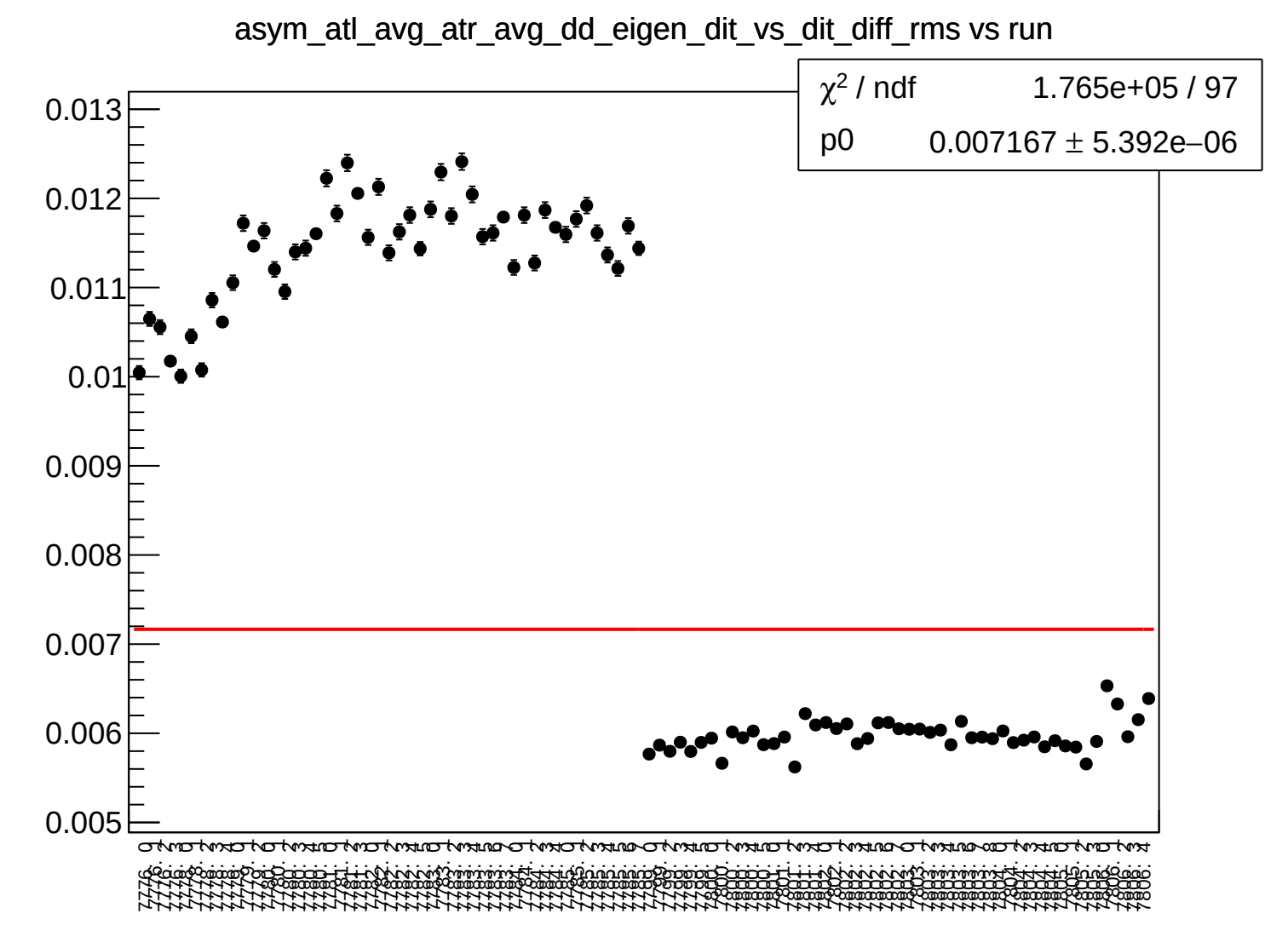

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.225e+05 / 97
p0 58.63 ± 0.04755
220
200
180
160
140
120
100
80
60
40
20

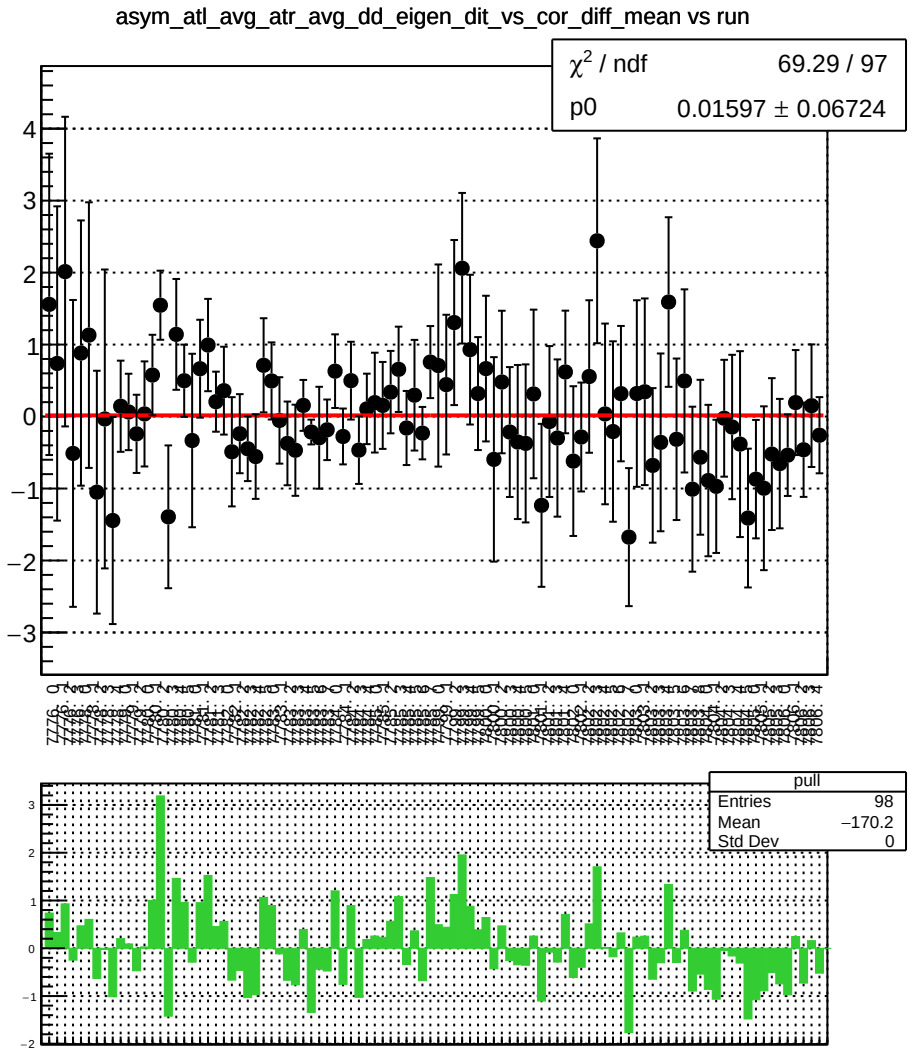

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.3 / 97
p0 0.01598 ± 0.06724
pull
Entries 98
Mean −170.2
Std Dev 0

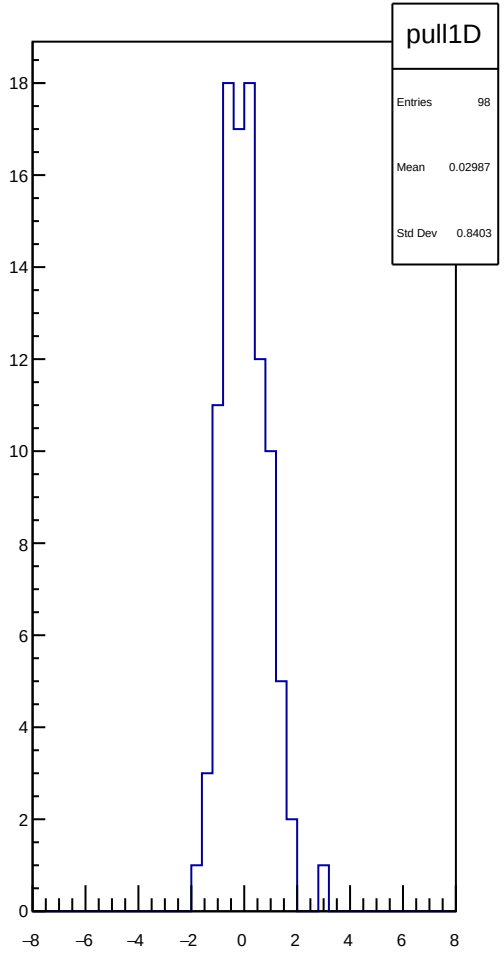

pull1D
Entries 98
Mean 0.02987
Std Dev 0.8404

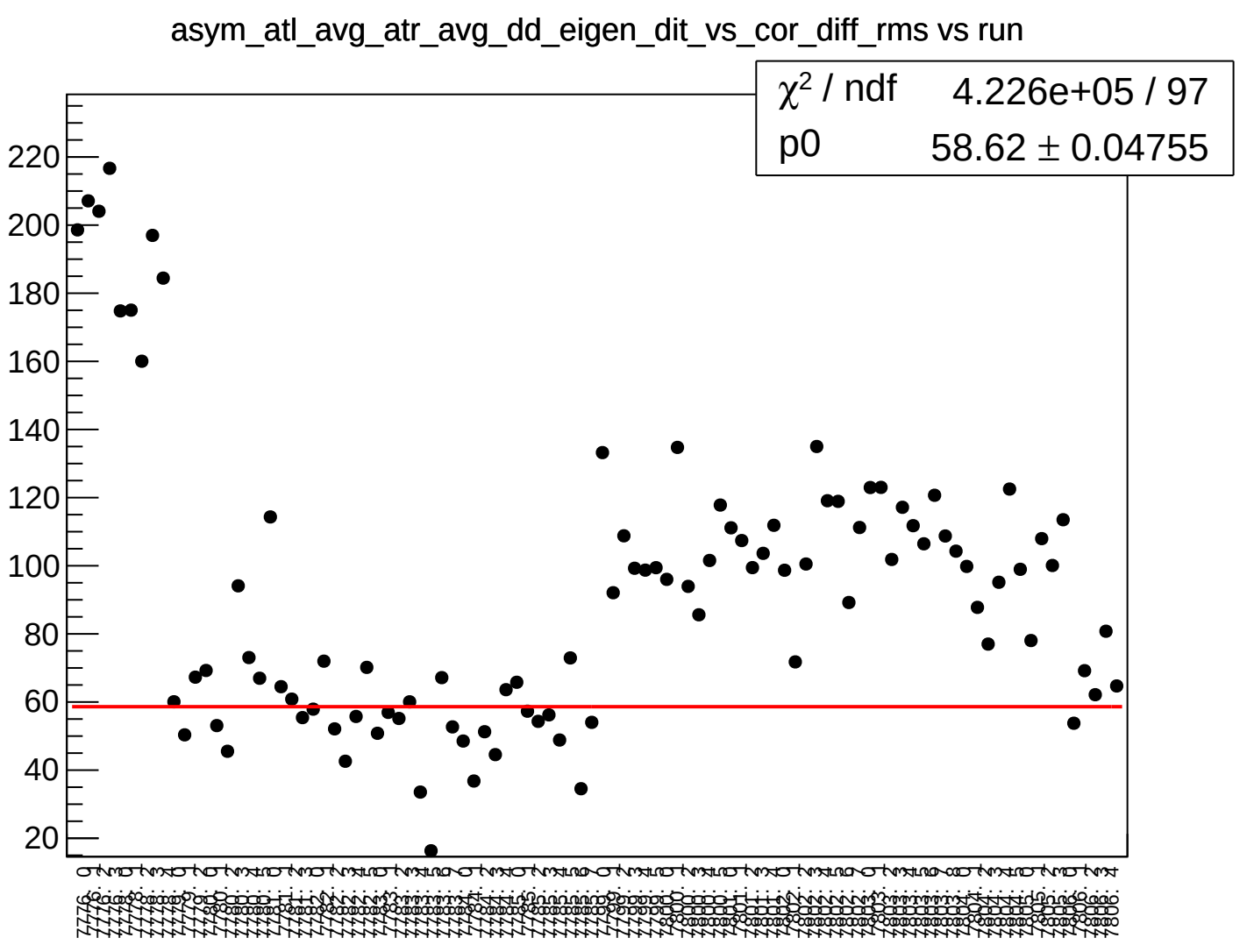

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.225e+05 / 97
p0 58.63 ± 0.04755
220
200
180
160
140
120
100
80
60
40
20

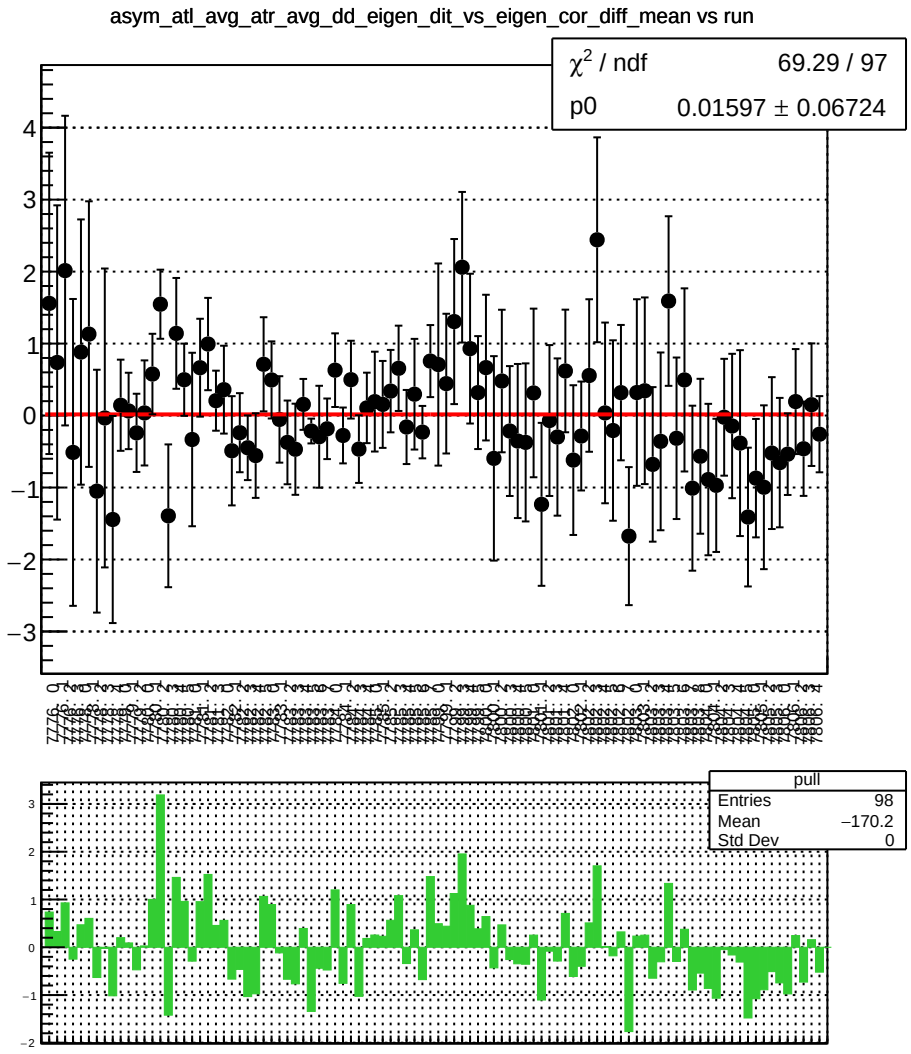

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.57 / 97
p0 −7.809e−06 ± 7.626e−06
pull
Entries 98
Mean −1.135e+04
Std Dev 0
pull1D
Entries 98
Mean 0.0001564
Std Dev 0.9344

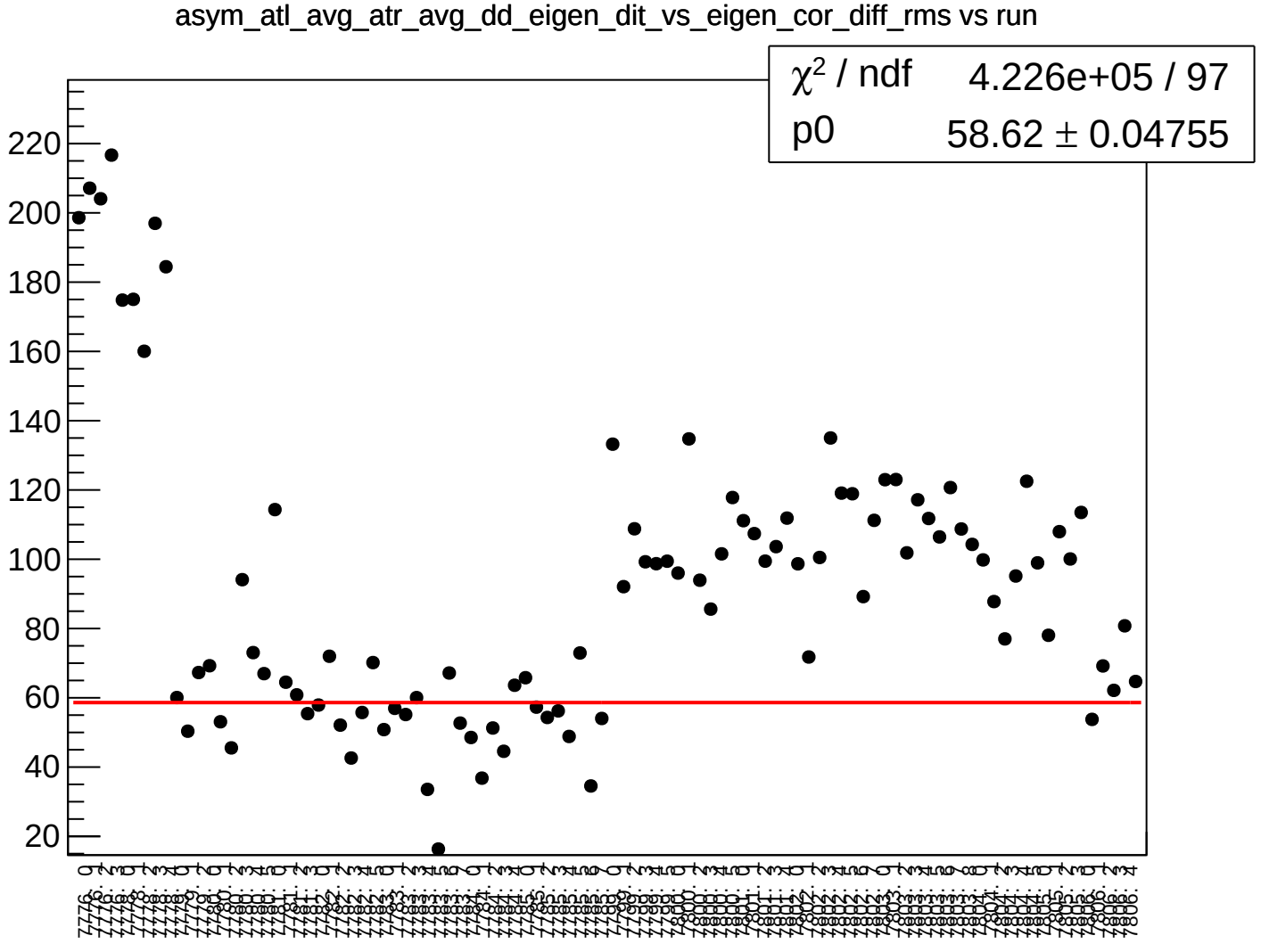

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.765e+05 / 97
p0 0.007167 ± 5.392e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

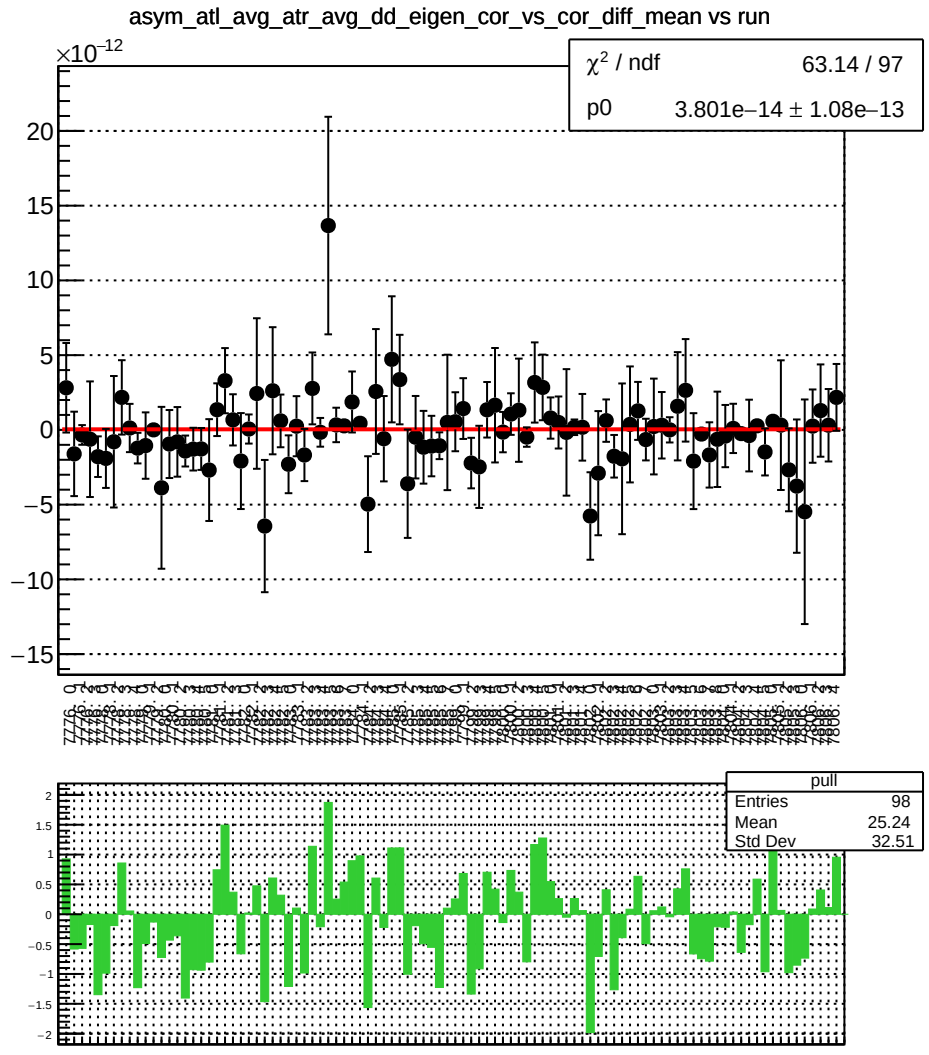

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.29 / 97
p0 0.01597 ± 0.06724
pull
Entries 98
Mean −170.2
Std Dev 0

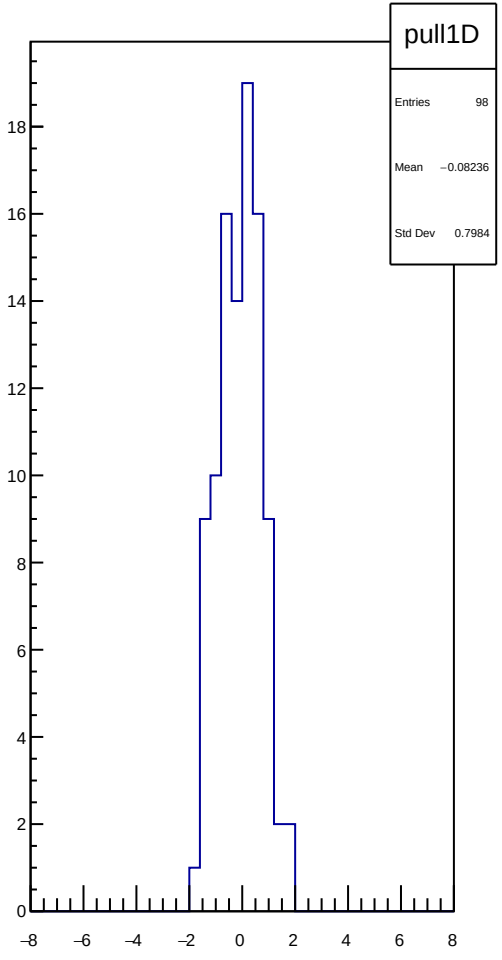

pull1D
Entries 98
Mean 0.02987
Std Dev 0.8403

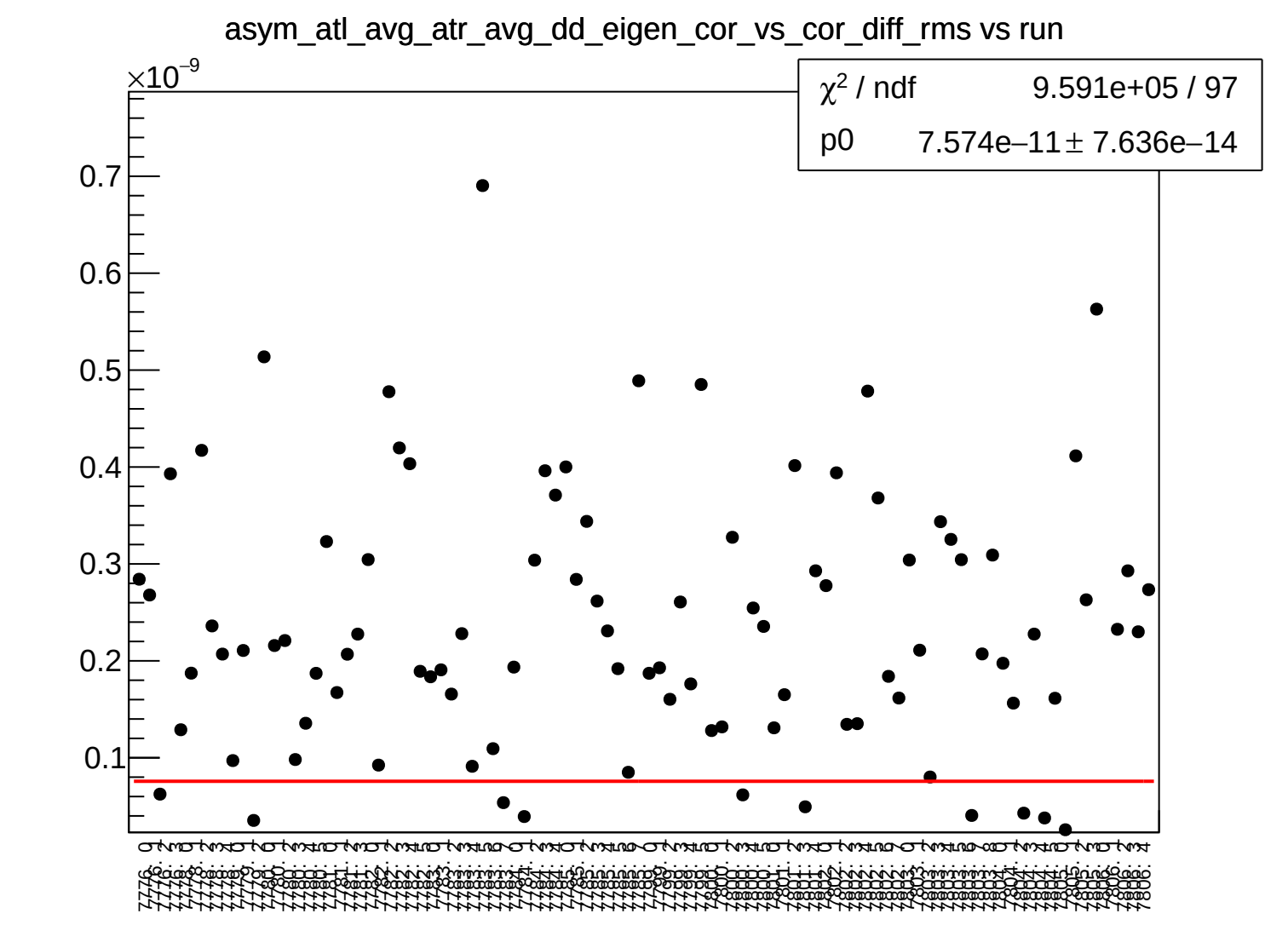

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.226e+05 / 97
p0 58.62 ± 0.04755
220
200
180
160
140
120
100
80
60
40
20

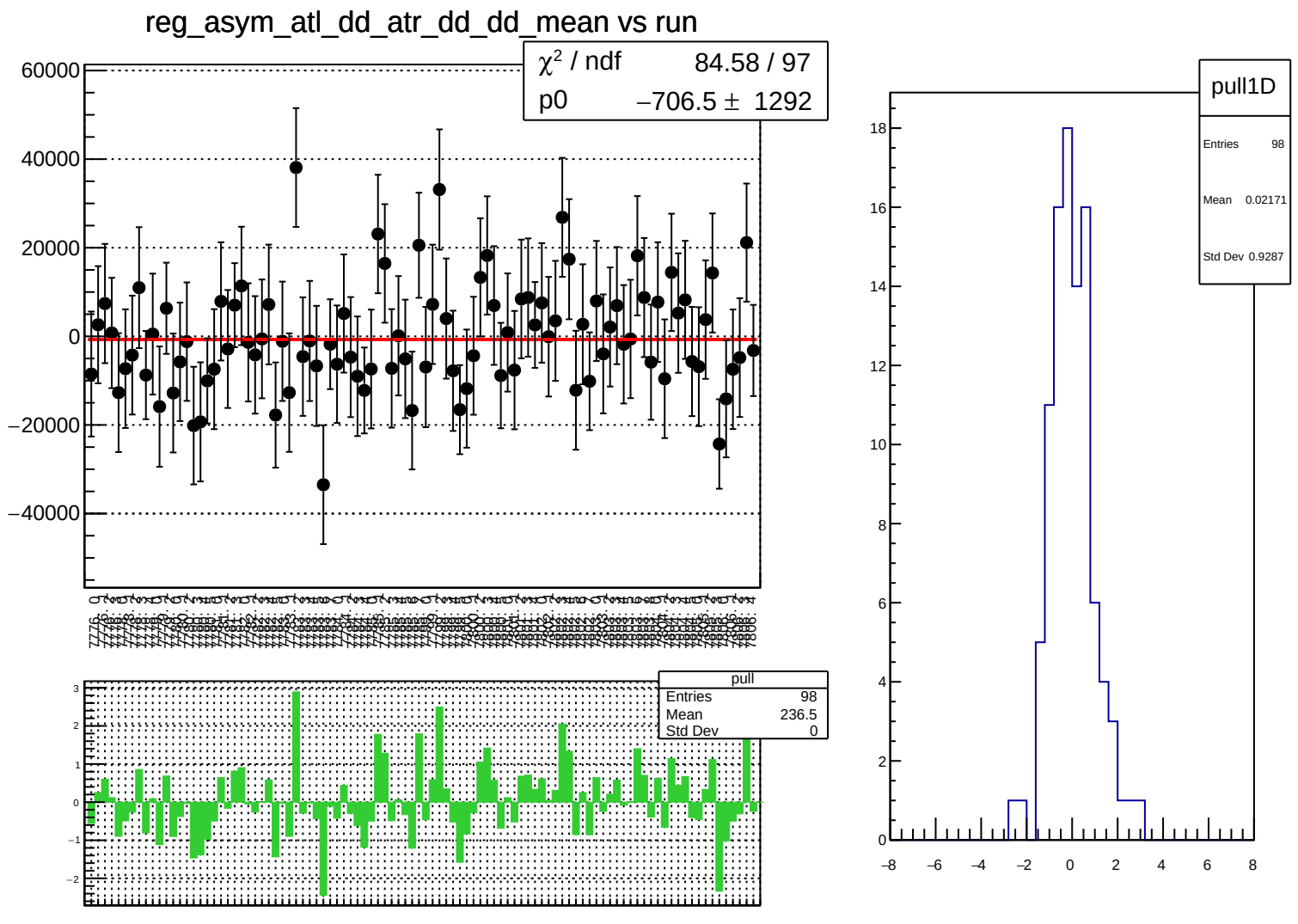

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.29 / 97
p0 0.01597 ± 0.06724
pull
Entries 98
Mean −170.2
Std Dev 0
pull1D
Entries 98
Mean 0.02987
Std Dev 0.8403

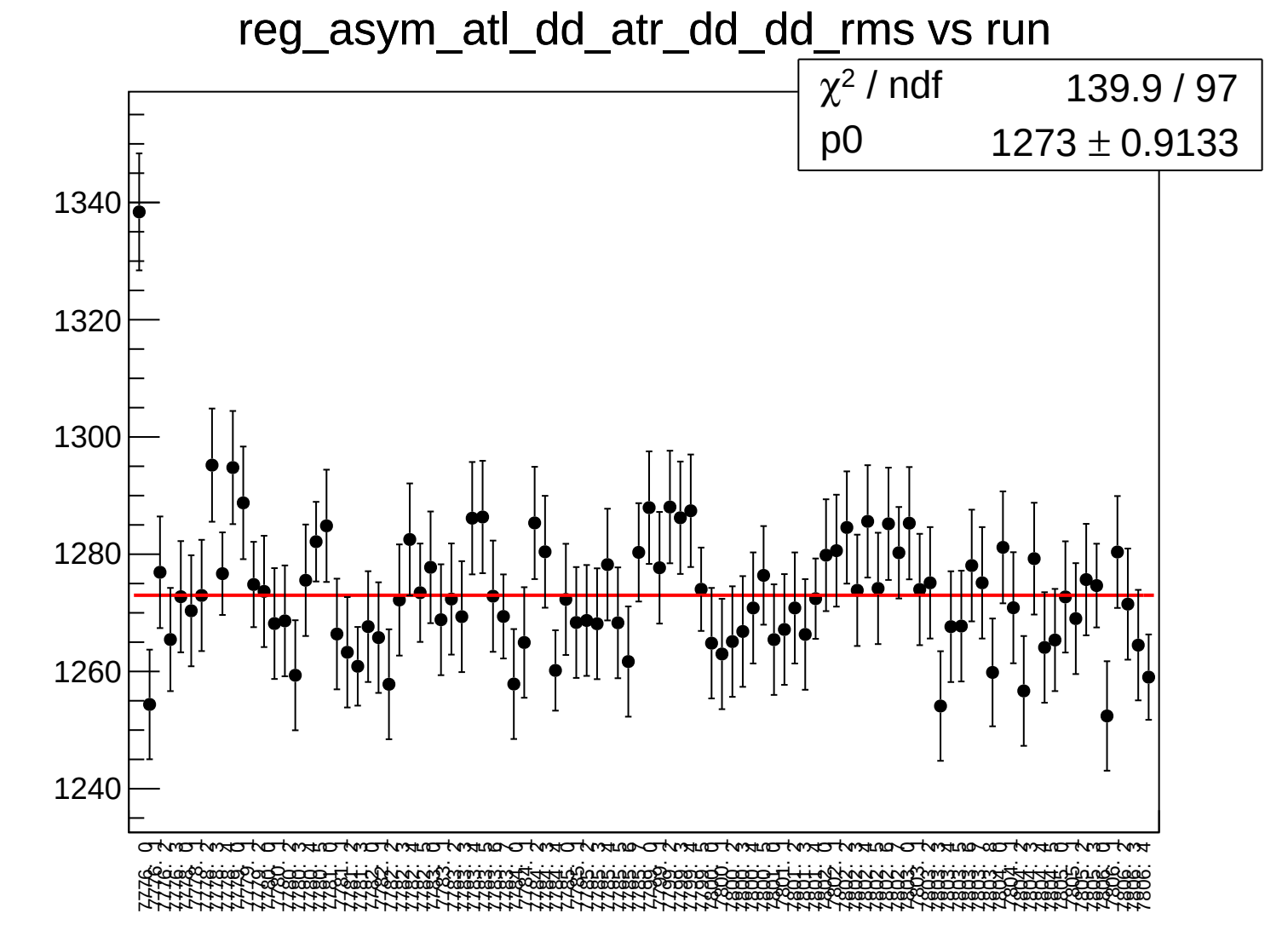

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.226e+05 / 97
p0 58.62 ± 0.04755
220
200
180
160
140
120
100
80
60
40
20

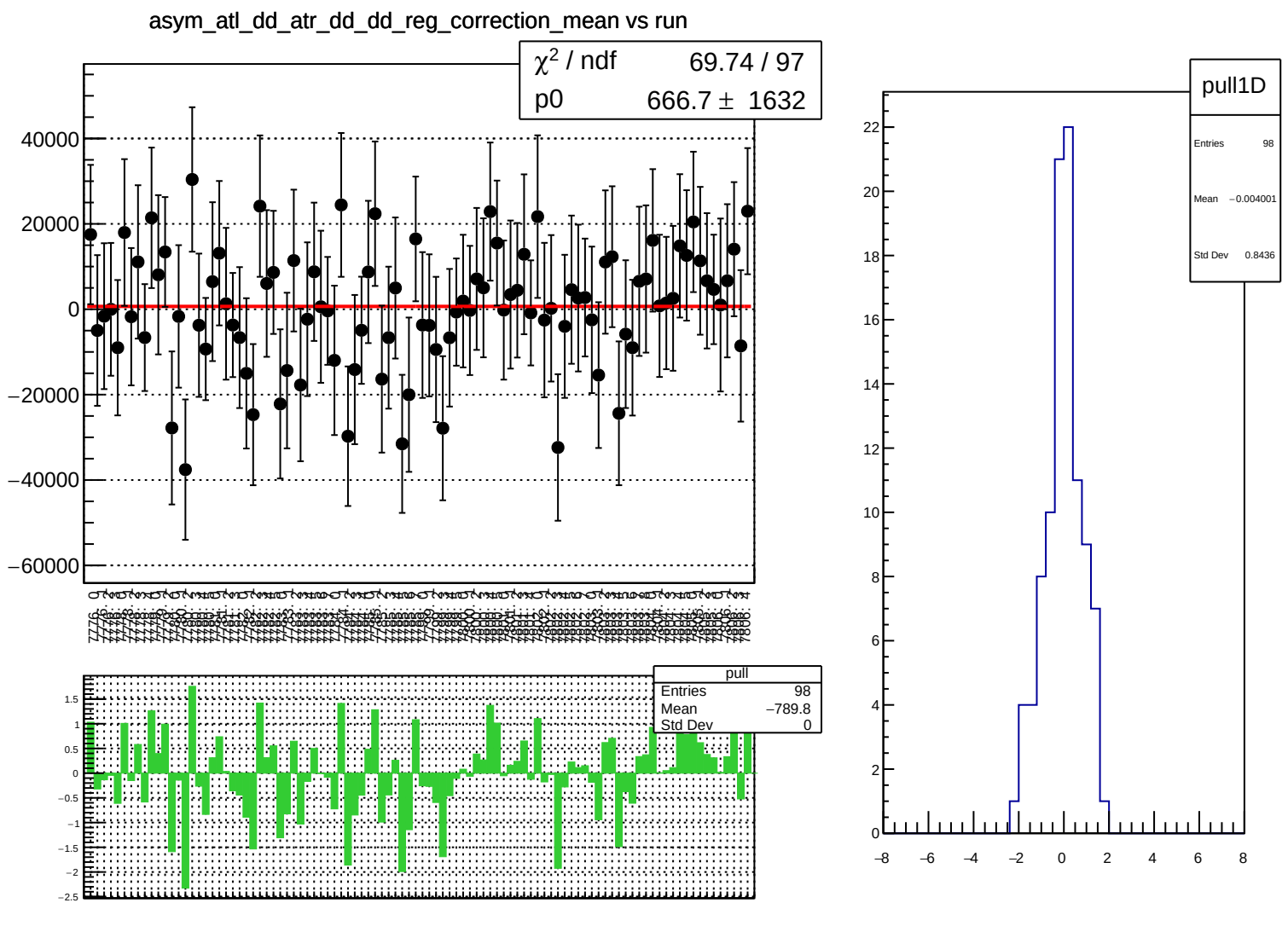

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.14 / 97
p0 3.801e−14 ± 1.08e−13
pull
Entries 98
Mean 25.24
Std Dev 32.51

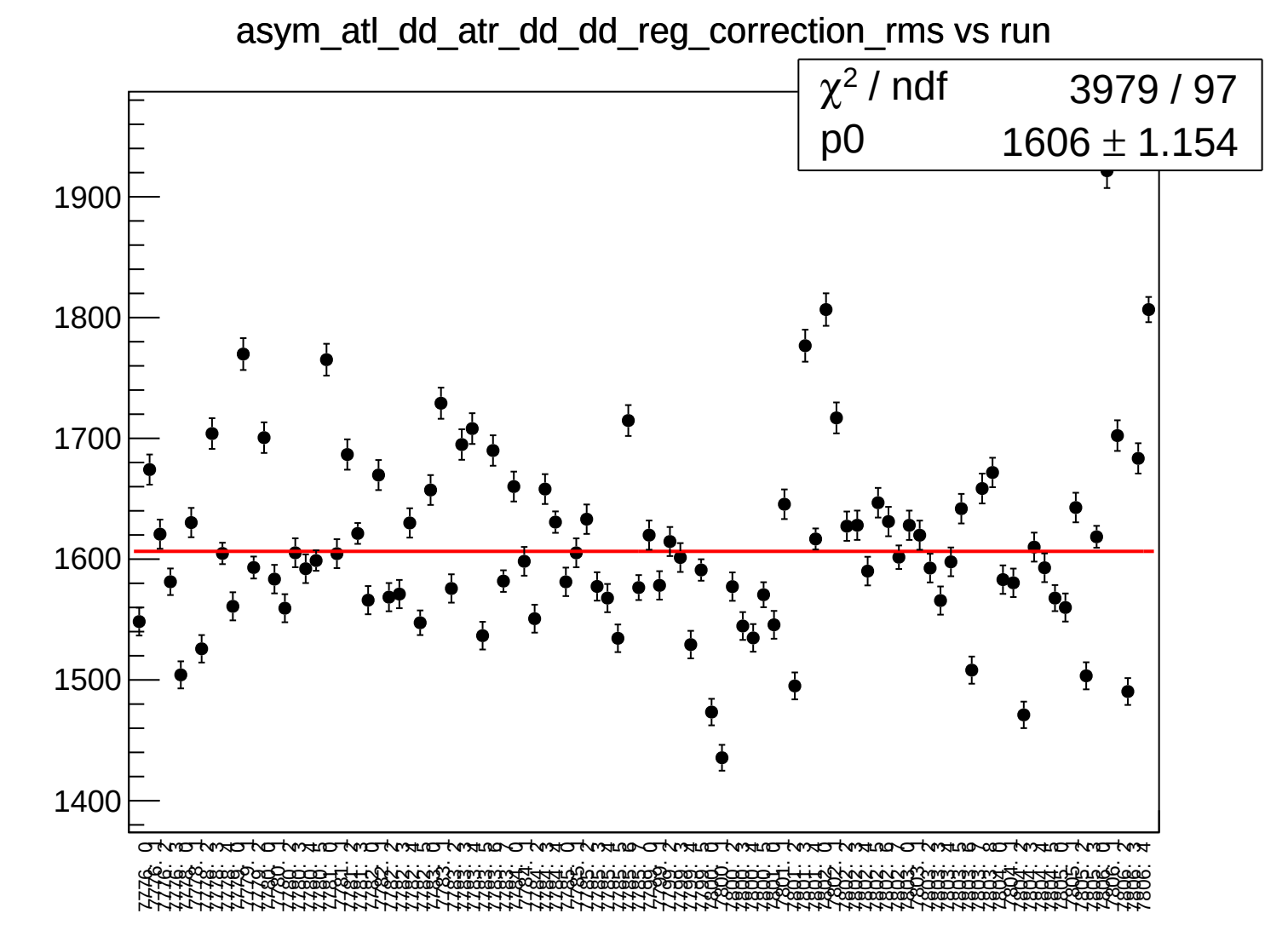

pull1D
Entries 98
Mean −0.08236
Std Dev 0.7984

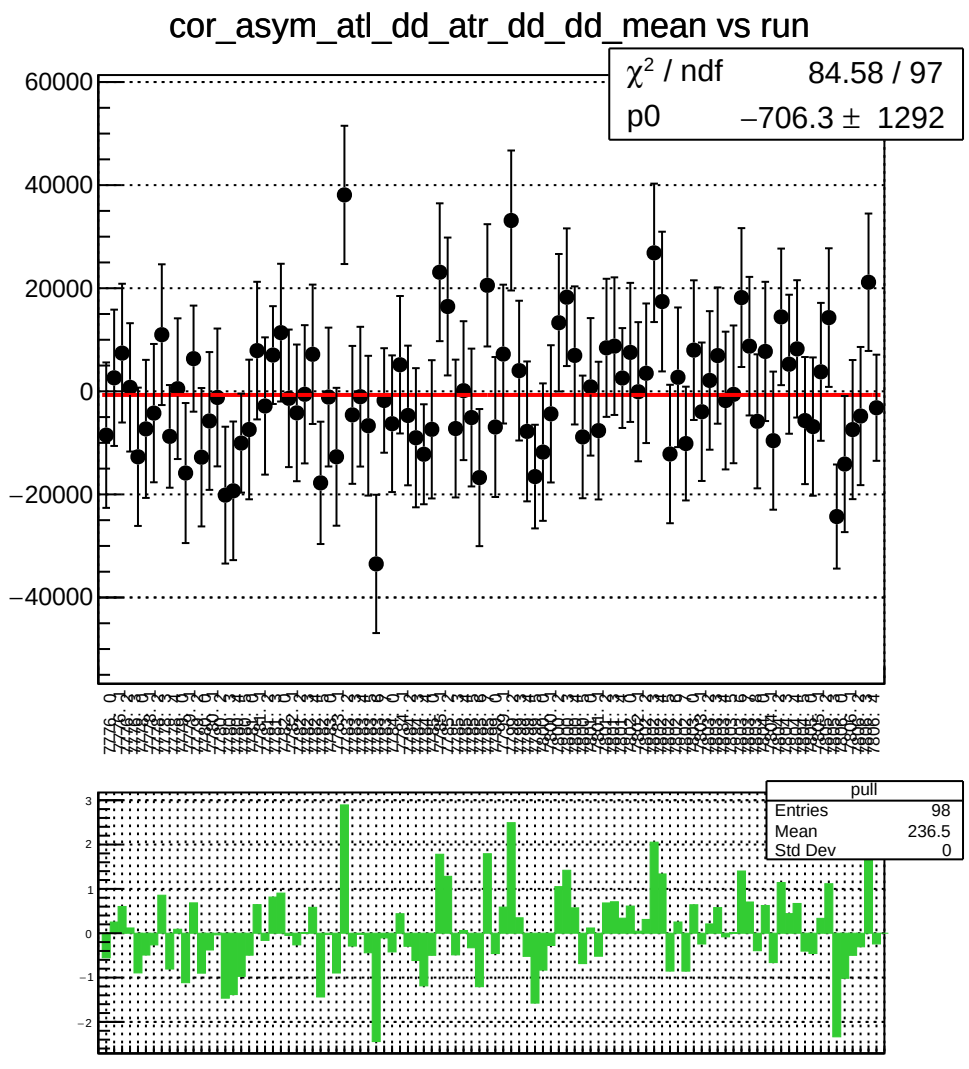

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.591e+05 / 97
p0 7.574e−11 ± 7.636e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

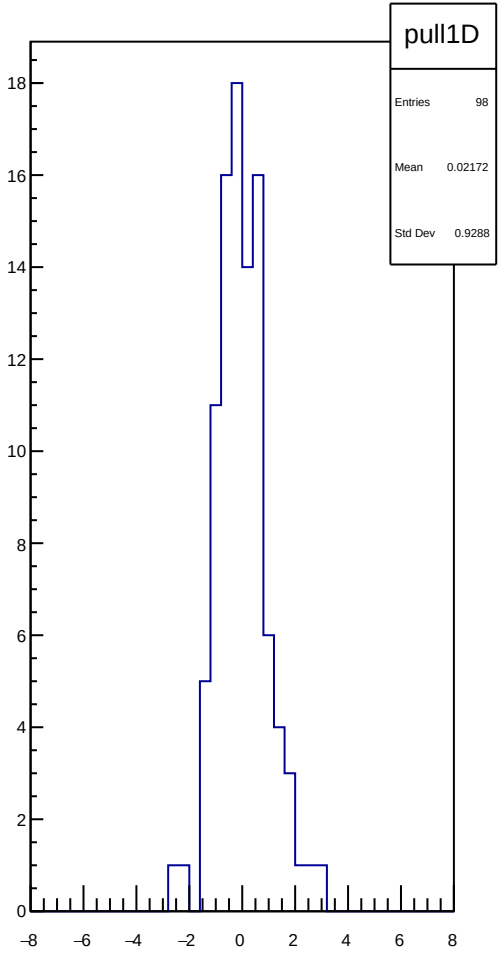

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.58 / 97
p0 −706.5 ± 1292
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 236.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02171
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

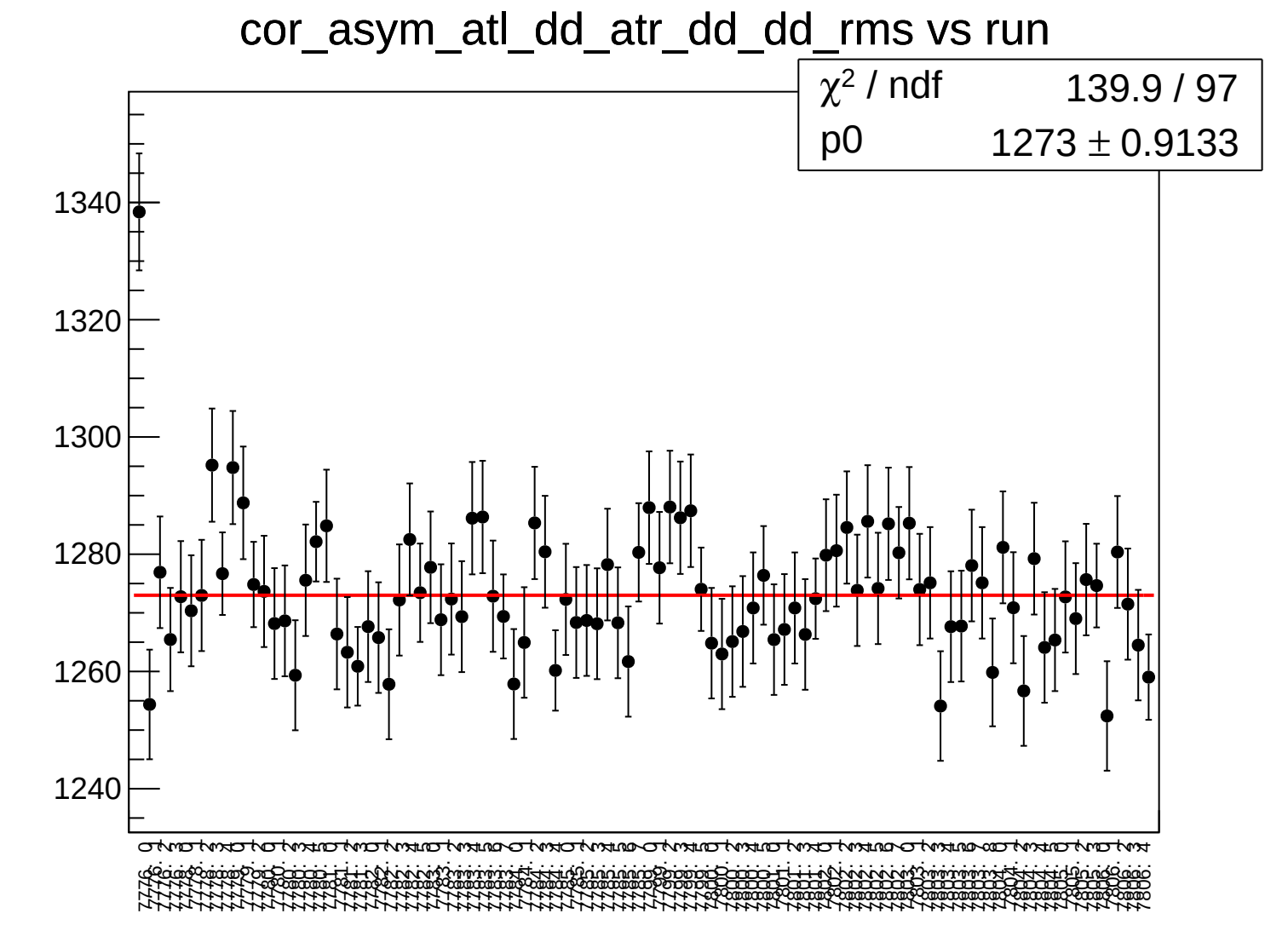

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 139.9 / 97
p0 1273 ± 0.9133
1340
1320
1300
1280
1260
1240

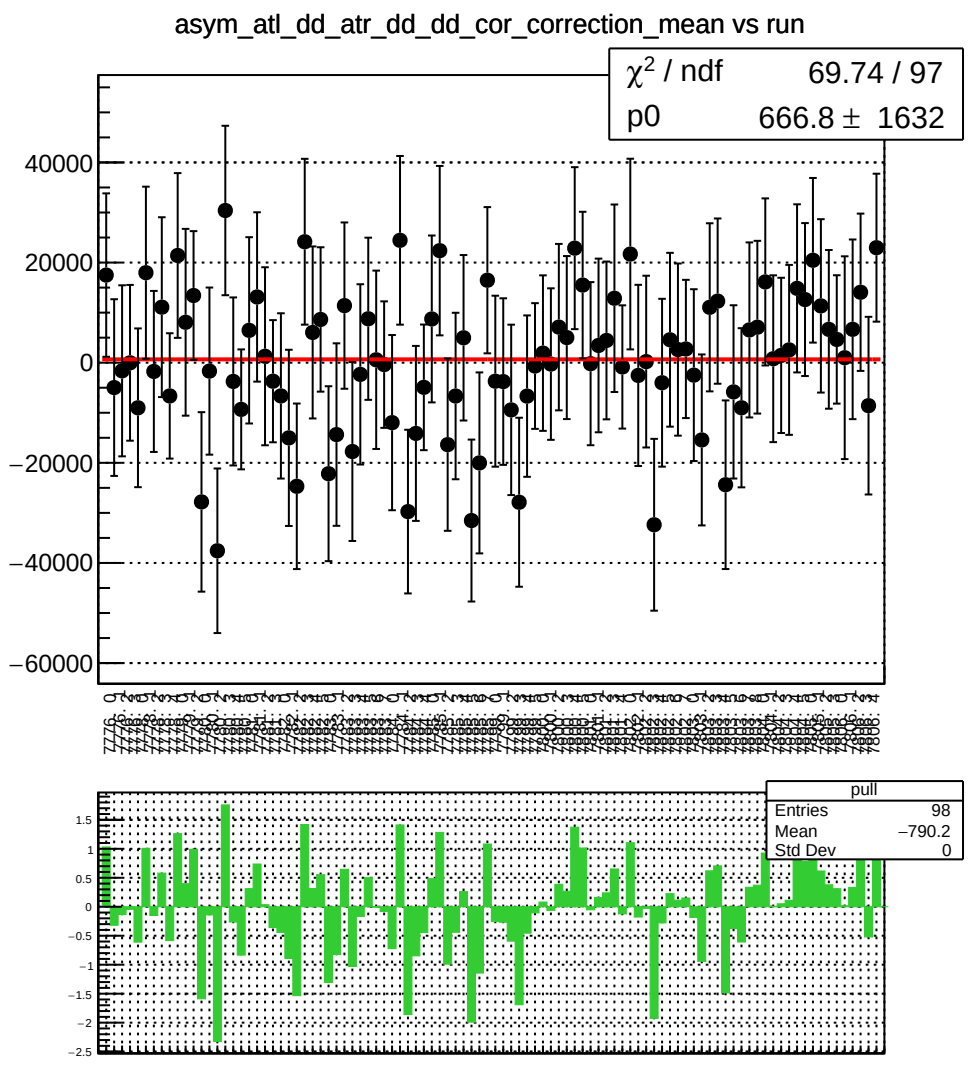

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 69.74 / 97
p0 666.7 ± 1632
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −789.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 98
Mean −0.004001
Std Dev 0.8436
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

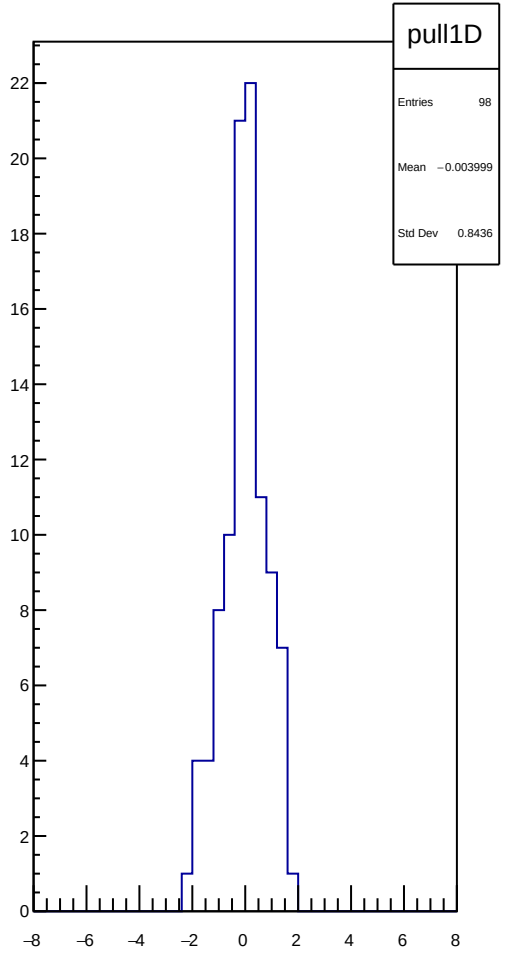

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 3979 / 97
p0 1606 ± 1.154
1900
1800
1700
1600
1500
1400

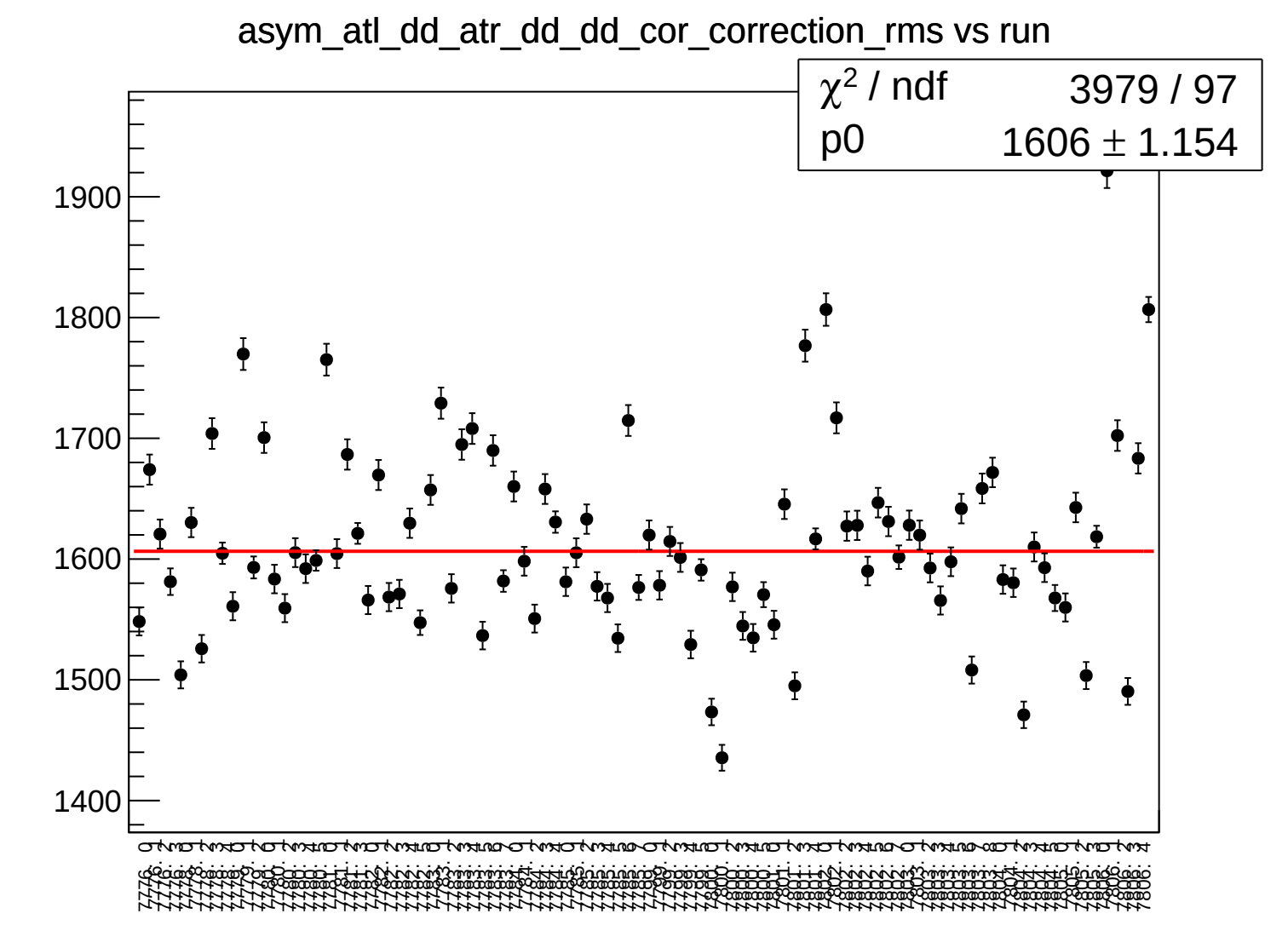

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.58 / 97
p0 −706.3 ± 1292
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 236.5
Std Dev 0
3
2
1
0
−1
−2

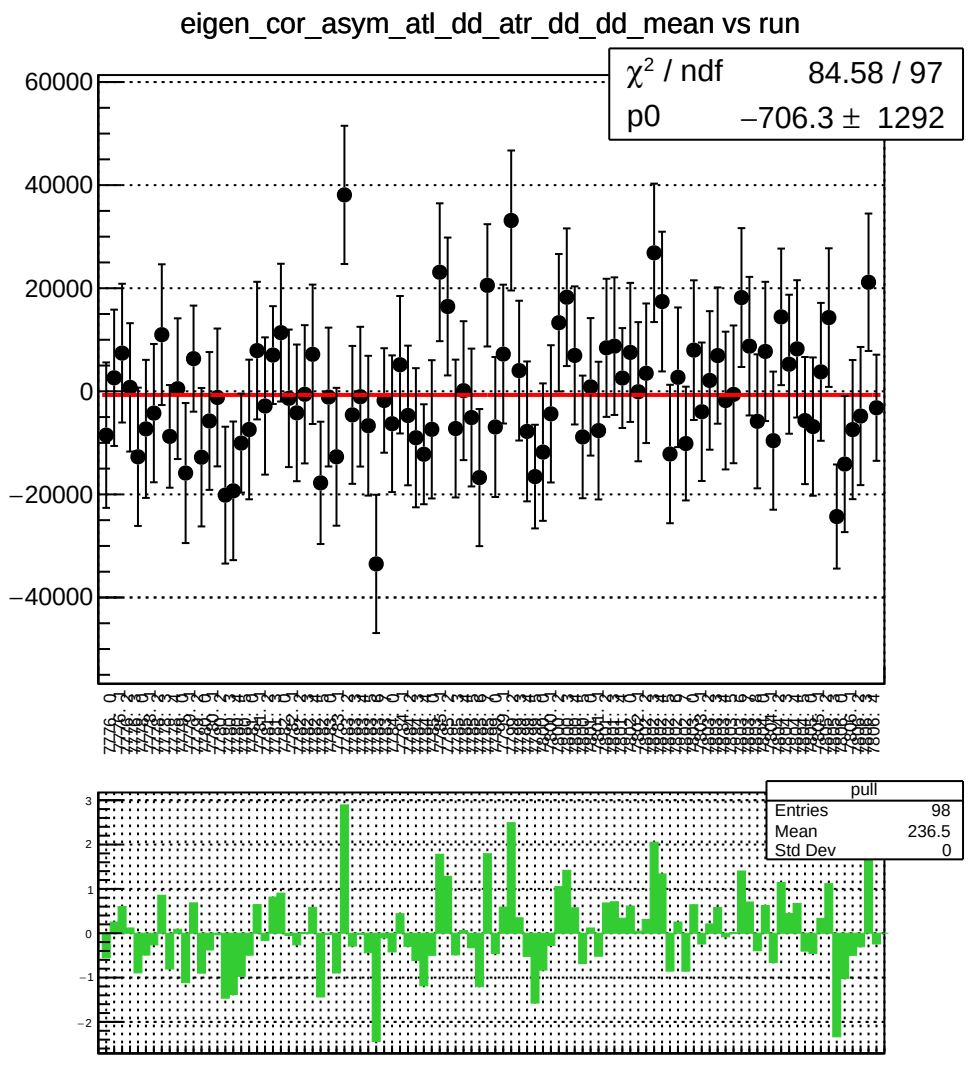

pull1D
Entries 98
Mean 0.02172
Std Dev 0.9288
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

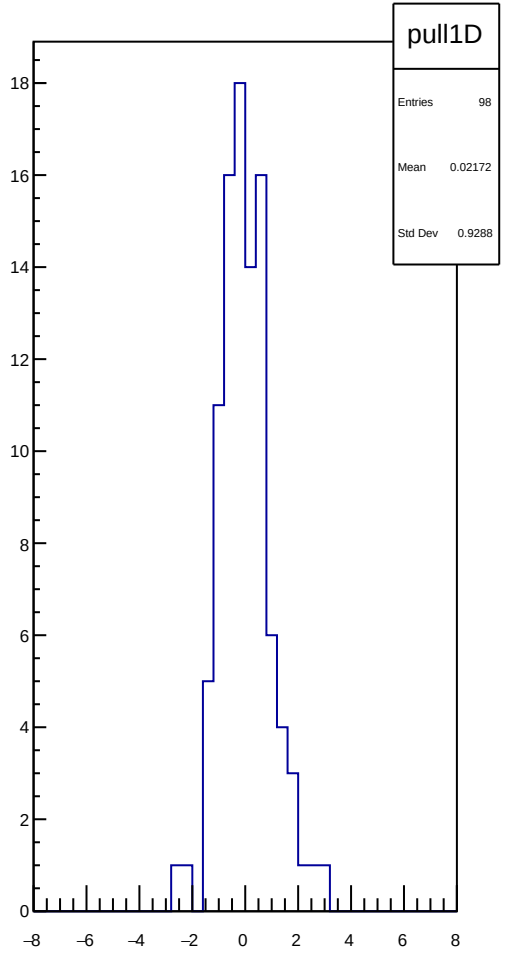

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 139.9 / 97
p0 1273 ± 0.9133
1340
1320
1300
1280
1260
1240

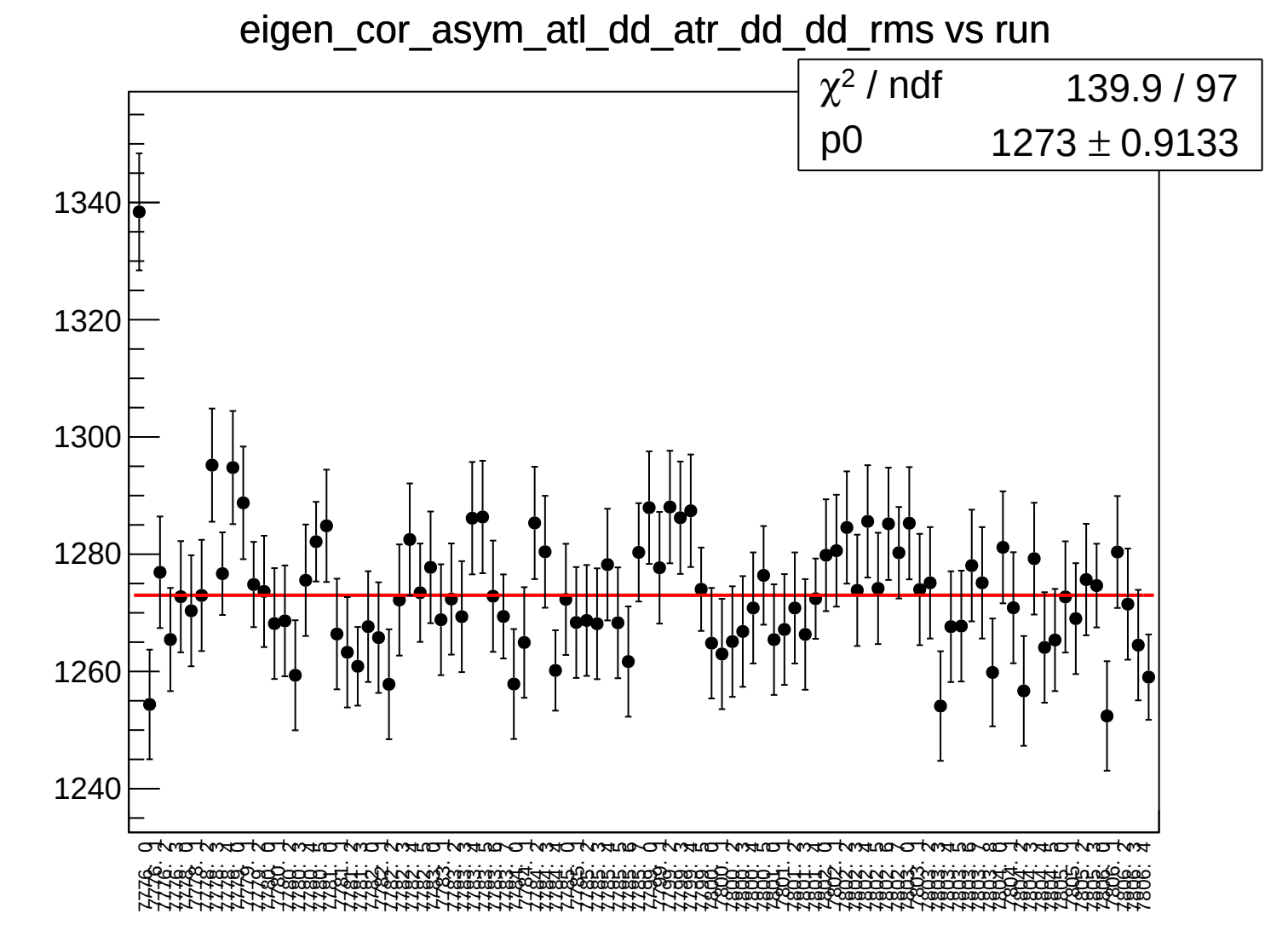

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 69.74 / 97
p0 666.8 ± 1632
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −790.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

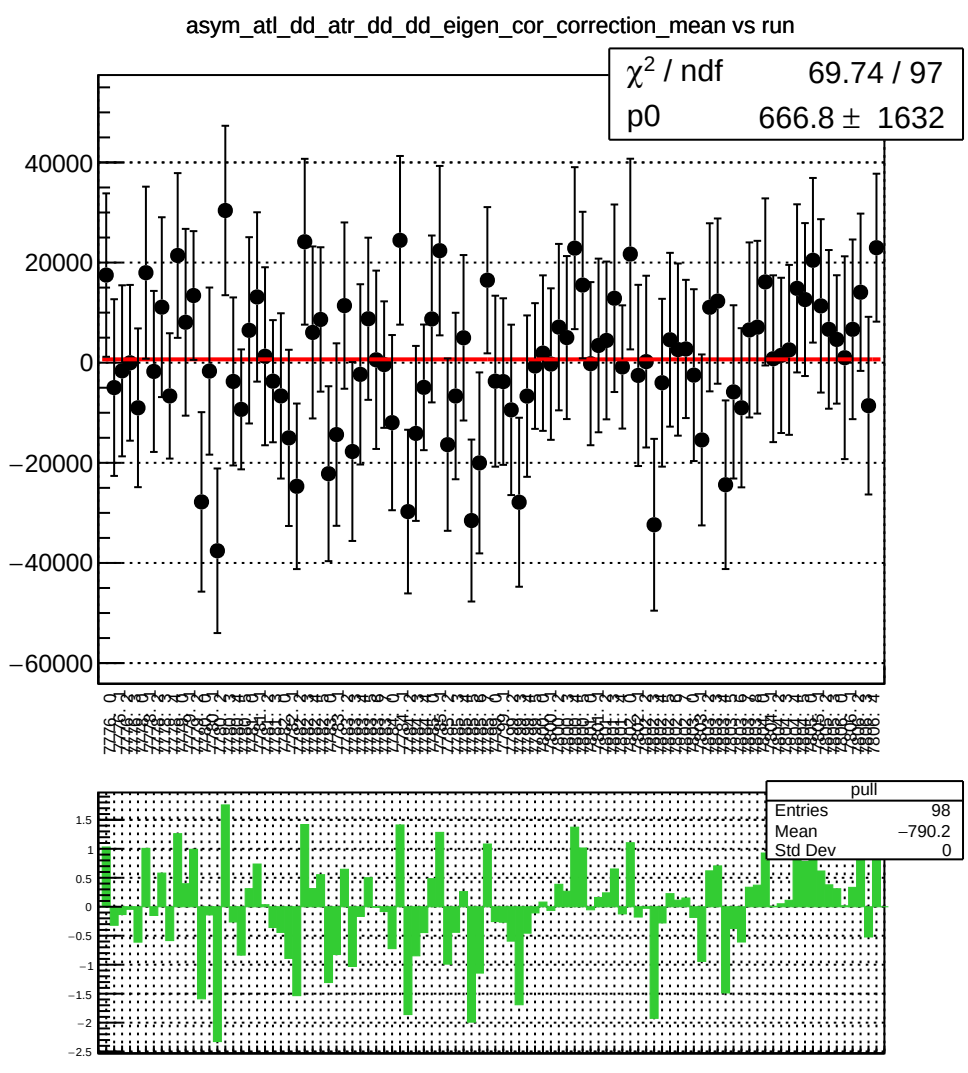

pull1D
Entries 98
Mean −0.003999
Std Dev 0.8436
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

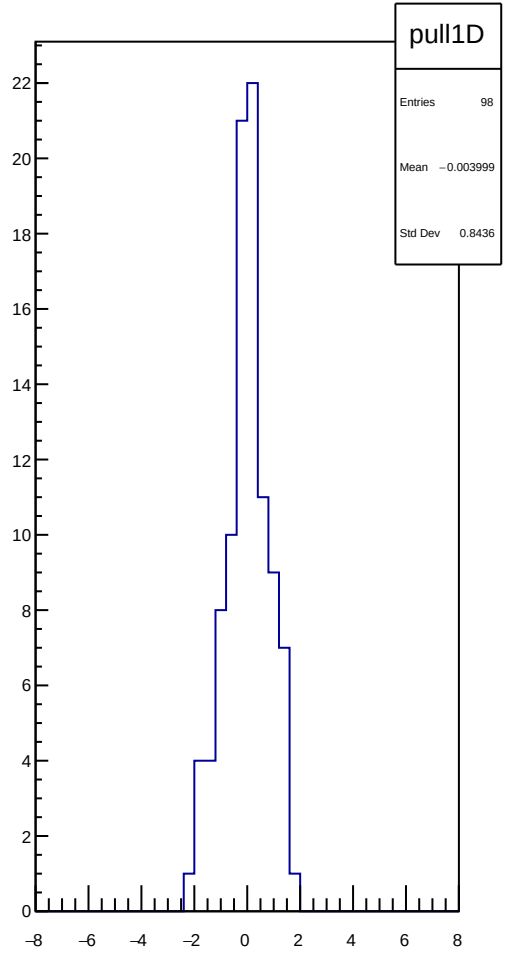

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 3979 / 97
p0 1606 ± 1.154
1900
1800
1700
1600
1500
1400

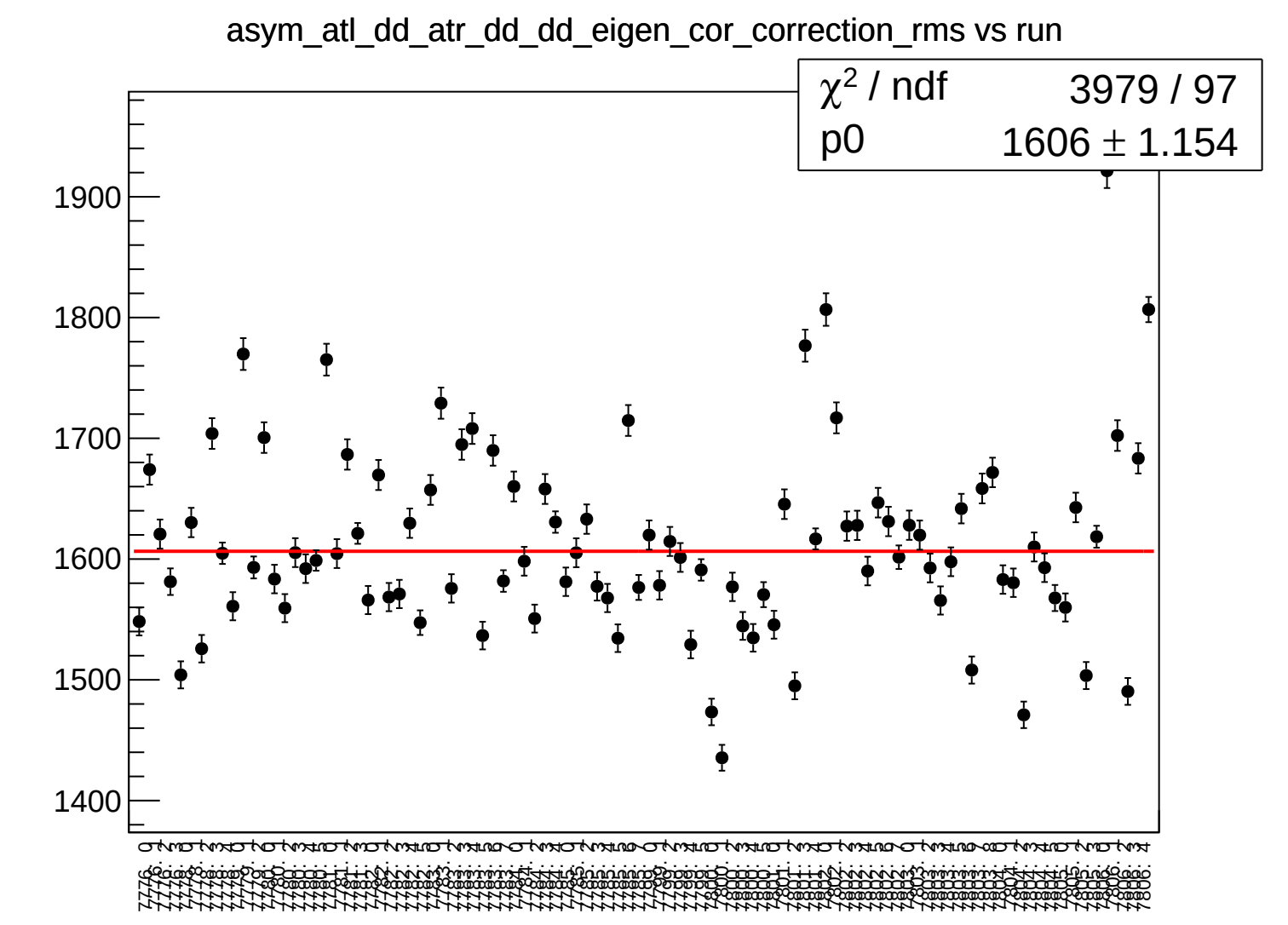

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.58 / 97
p0 −706.3 ± 1292
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 236.5
Std Dev 0
3
2
1
0
−1
−2

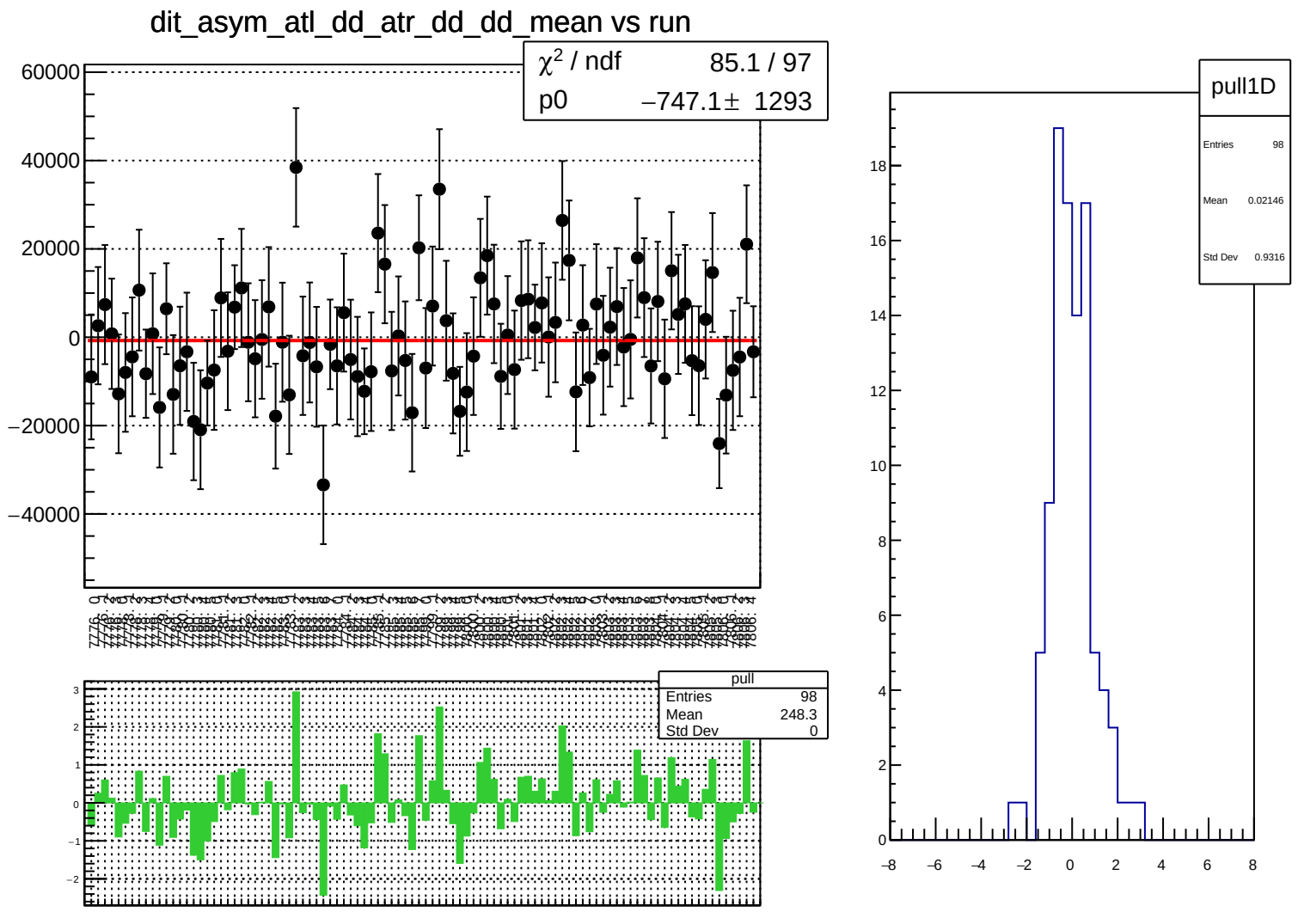

pull1D
Entries 98
Mean 0.02172
Std Dev 0.9288
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

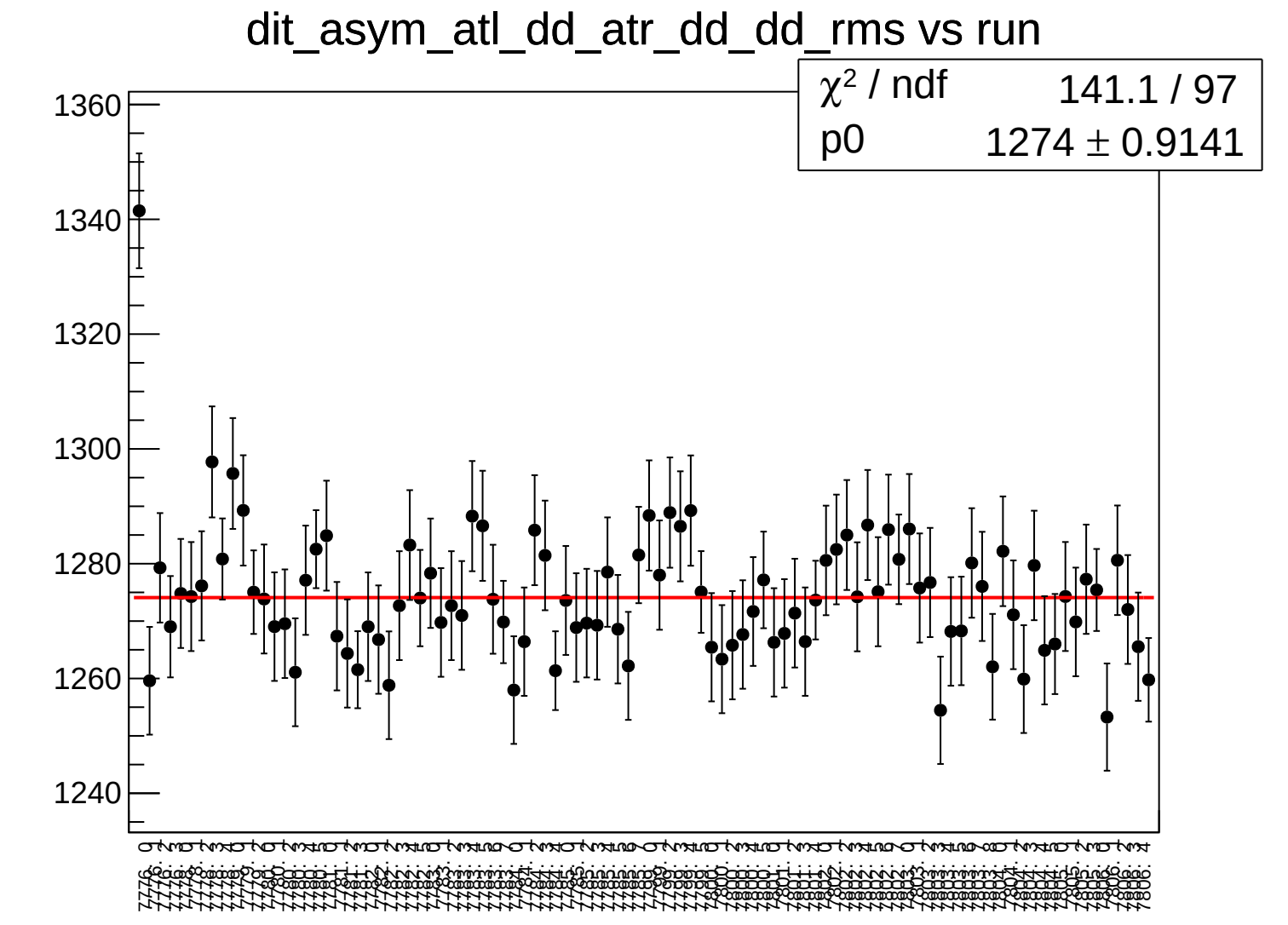

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 139.9 / 97
p0 1273 ± 0.9133
1340
1320
1300
1280
1260
1240

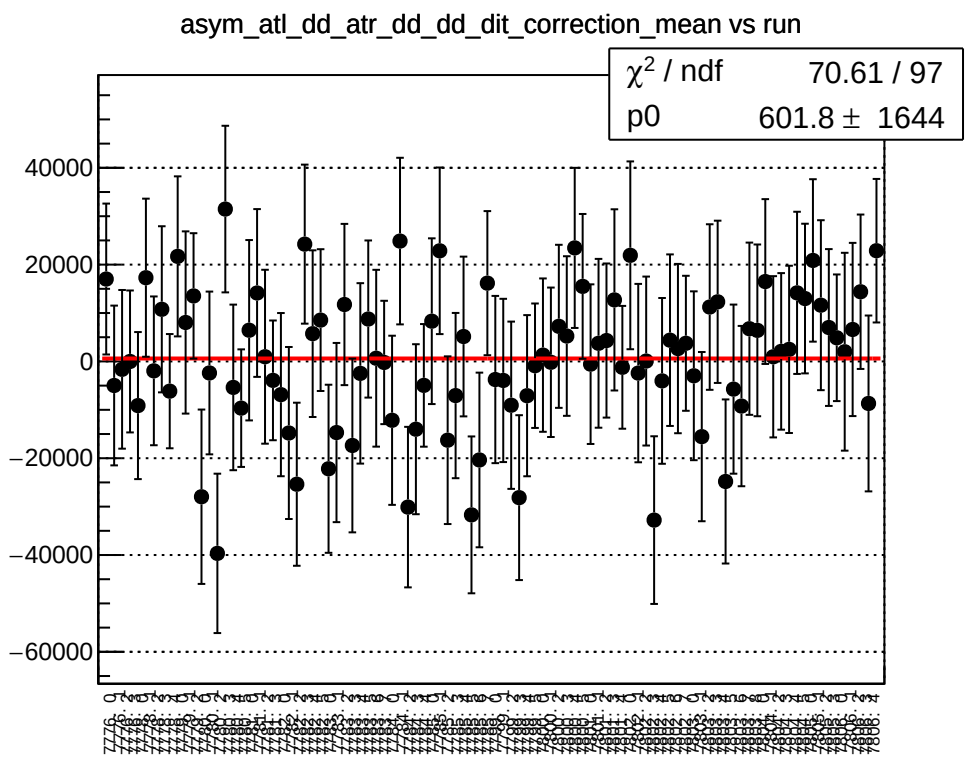

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.74 / 97
p0 666.8 ± 1632
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −790.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

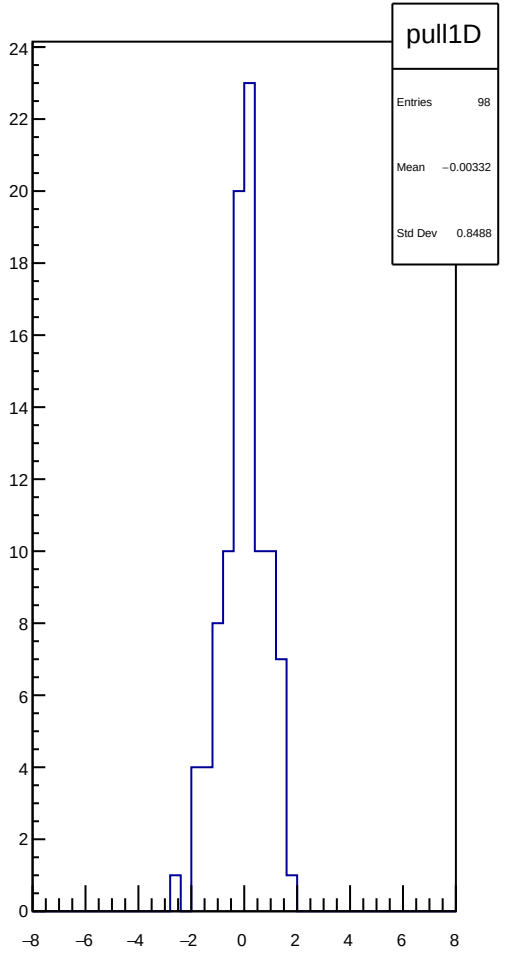

pull1D
Entries 98
Mean −0.003999
Std Dev 0.8436
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

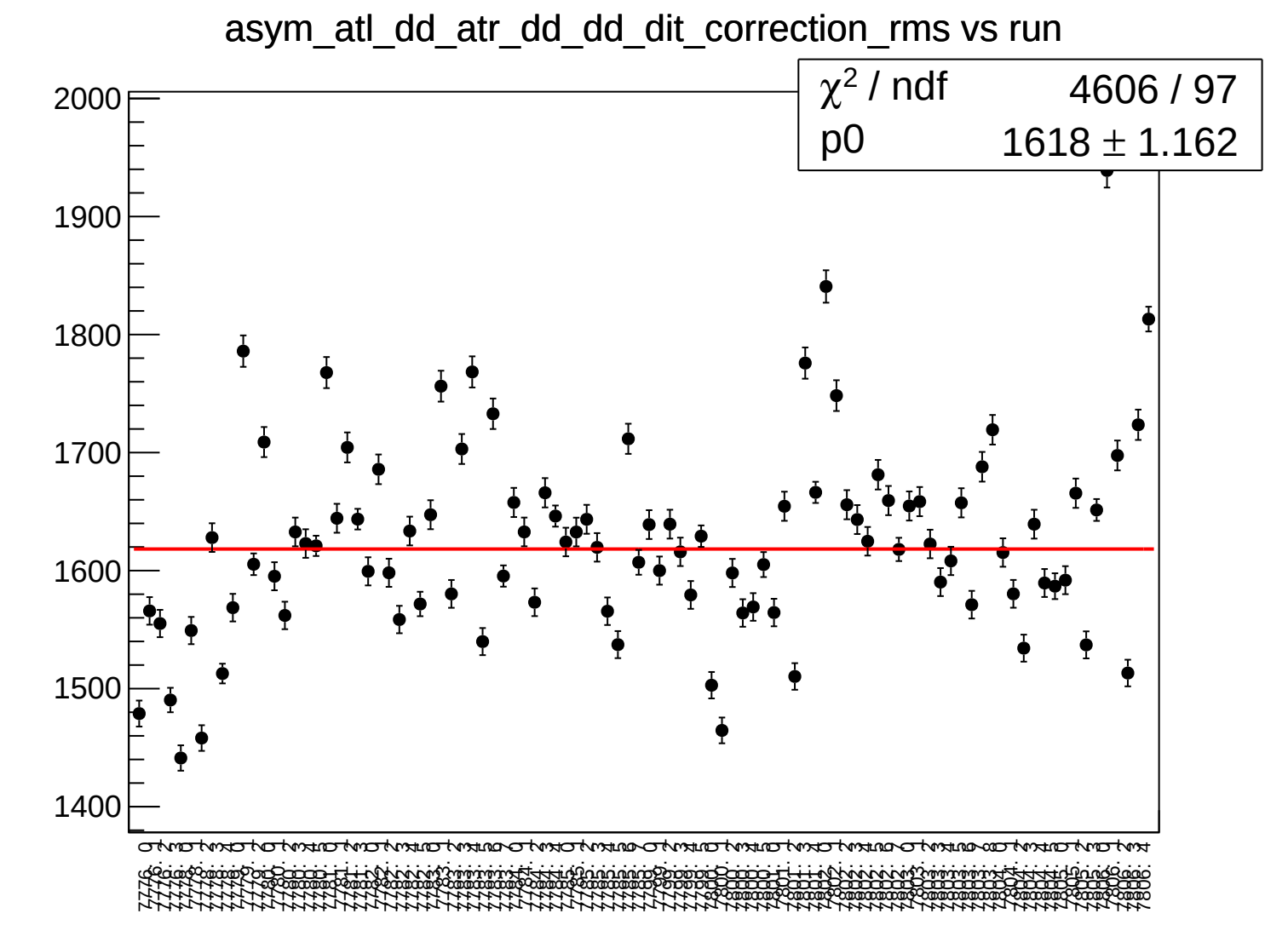

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3979 / 97
p0 1606 ± 1.154
1900
1800
1700
1600
1500
1400

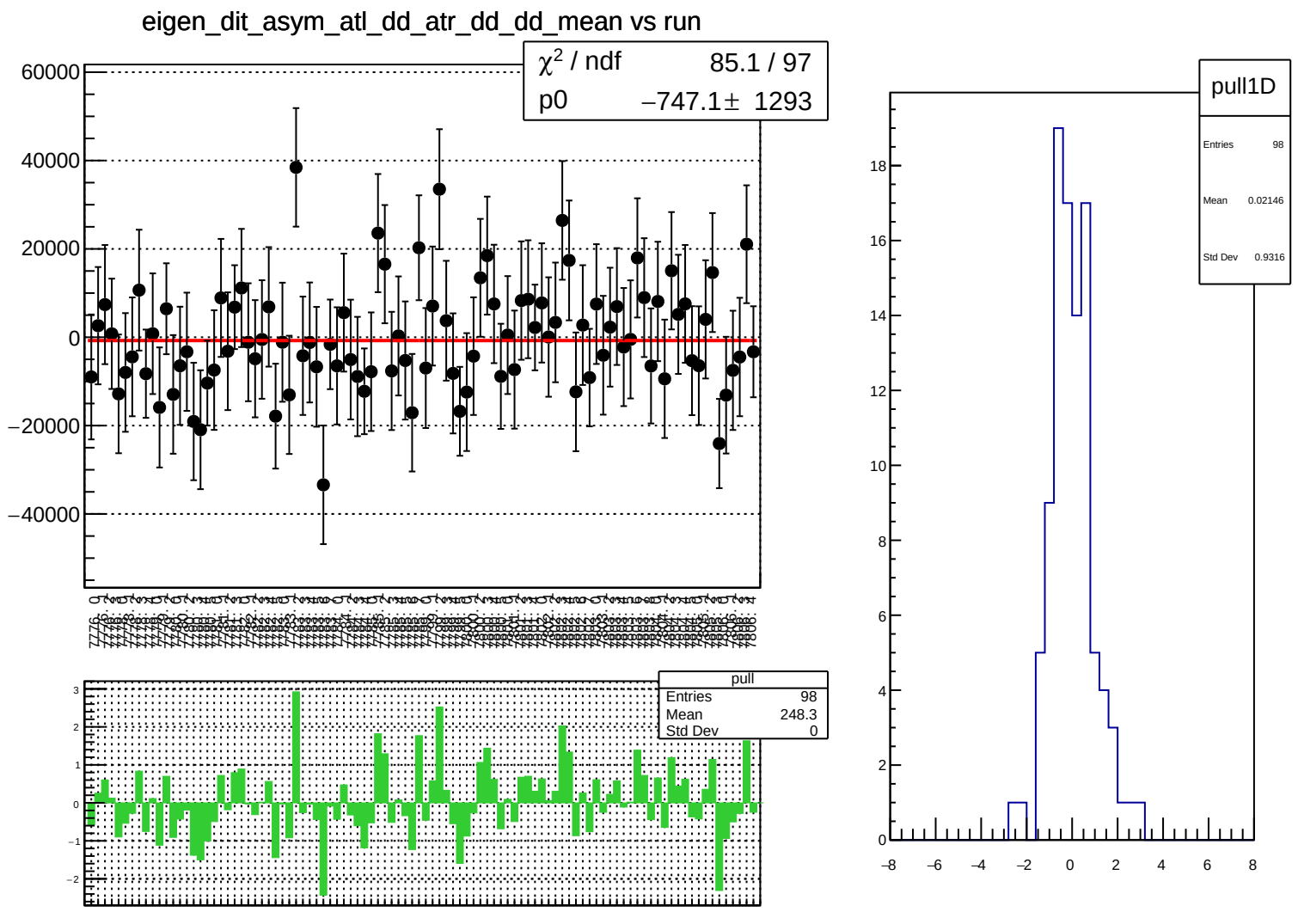

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.1 / 97
p0 −747.1± 1293
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 248.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02146
Std Dev 0.9316
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

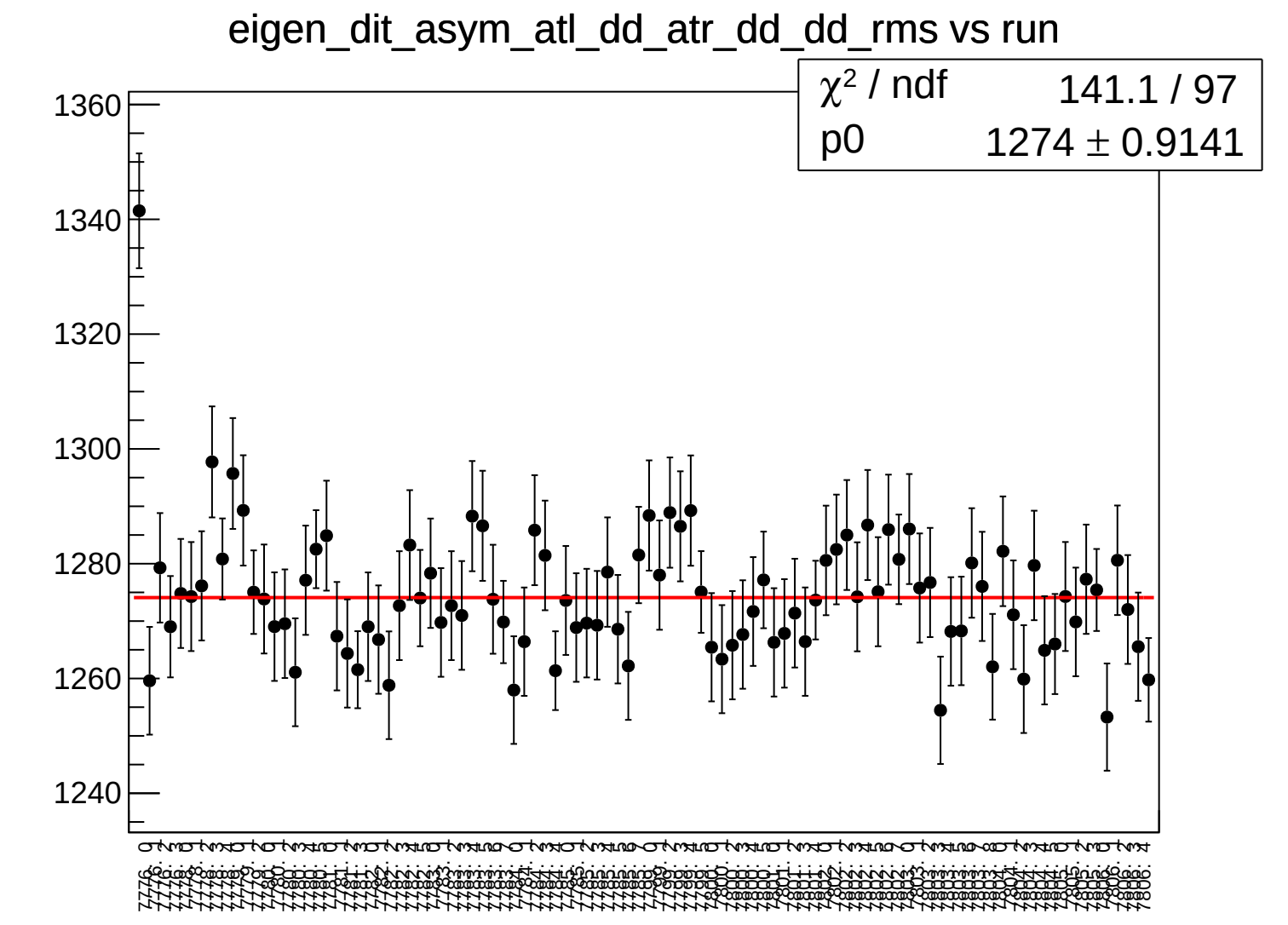

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 141.1 / 97
p0 1274 ± 0.9141
1360
1340
1320
1300
1280
1260
1240

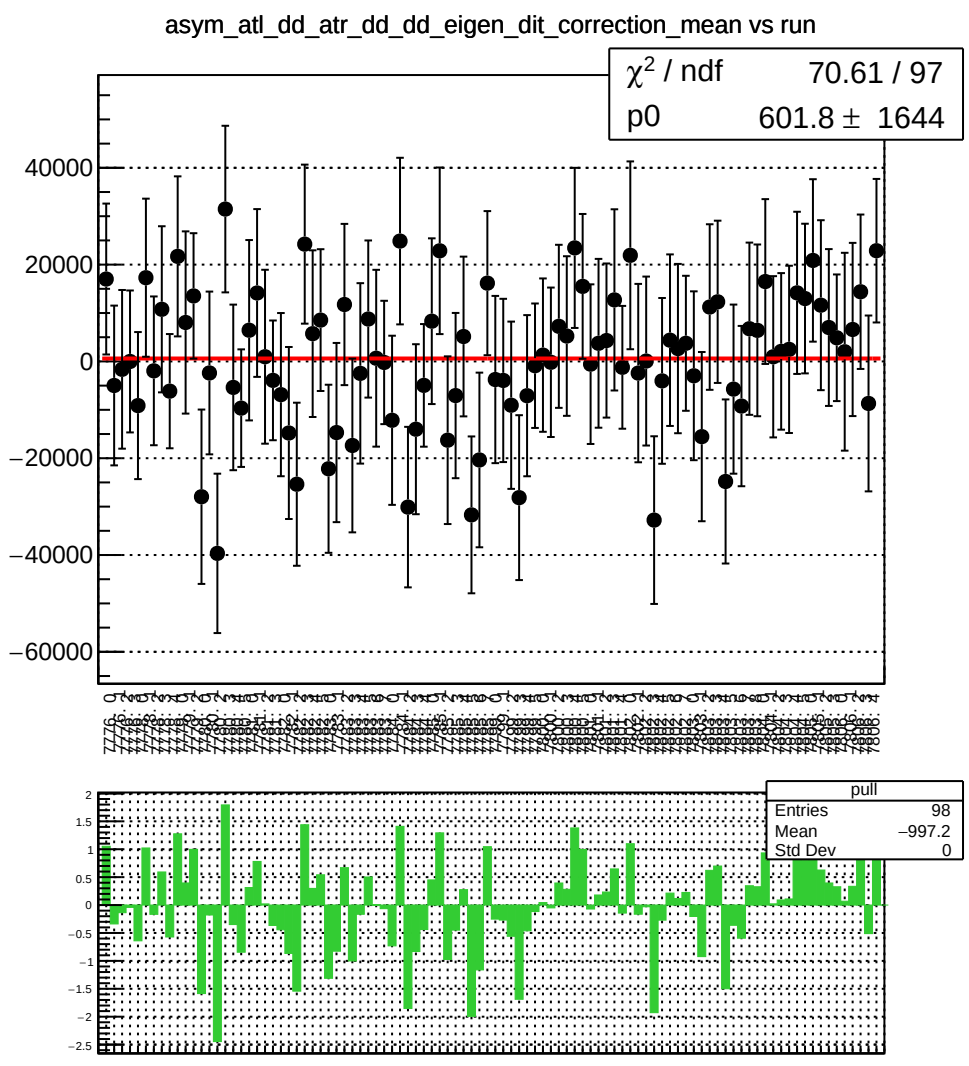

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 70.61 / 97
p0 601.8 ± 1644
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −997.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

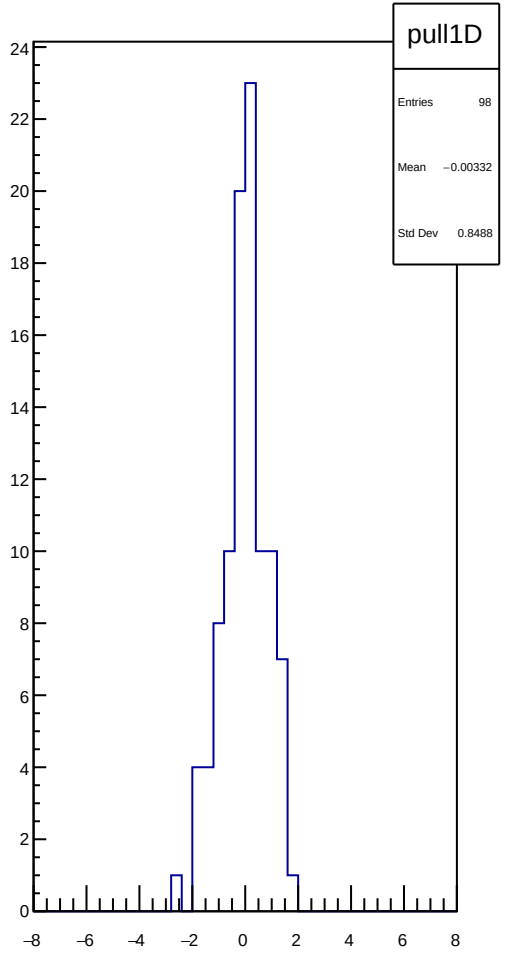

pull1D
Entries 98
Mean −0.00332
Std Dev 0.8488
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

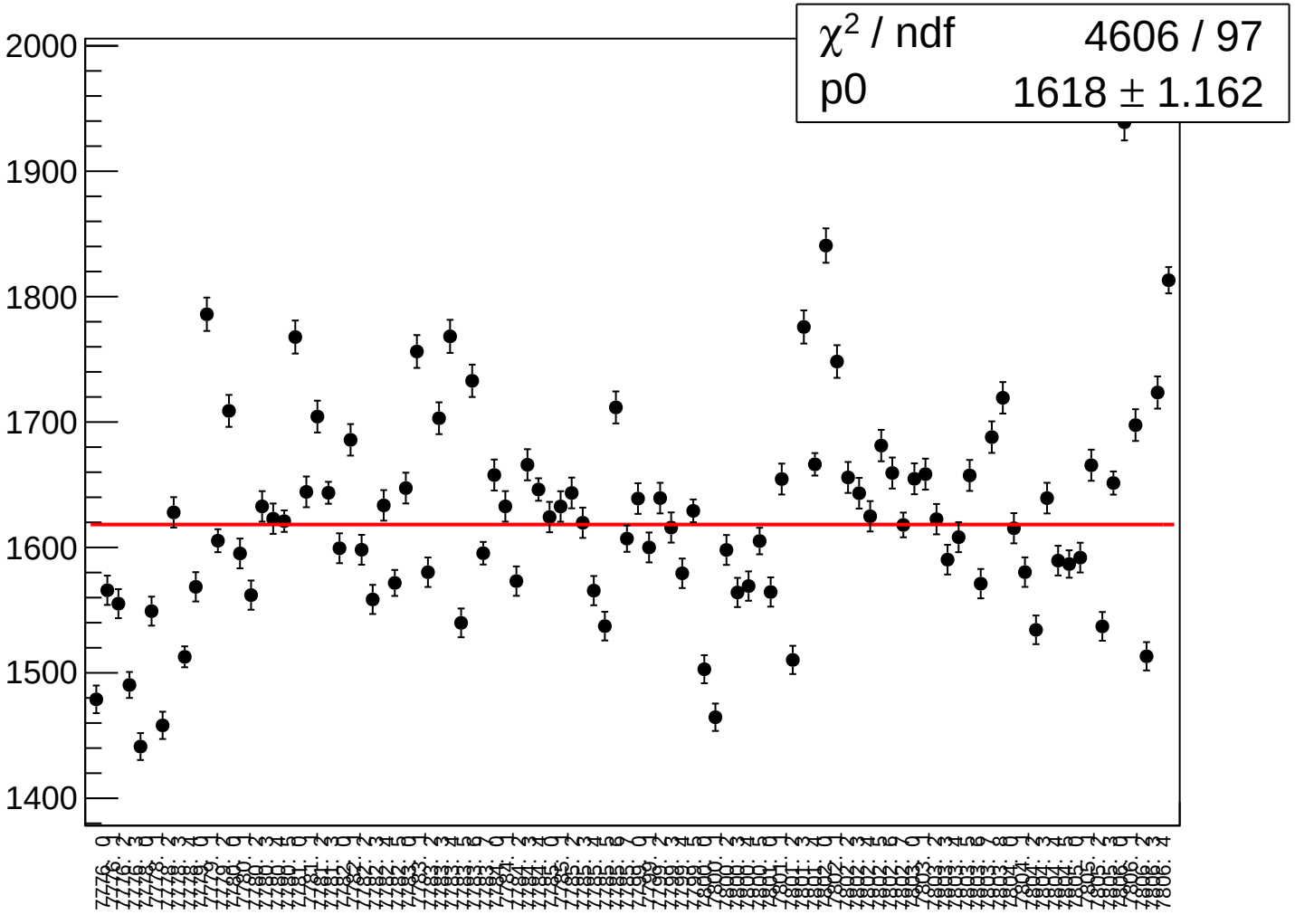

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 4606 / 97
p0 1618 ± 1.162
2000
1900
1800
1700
1600
1500
1400

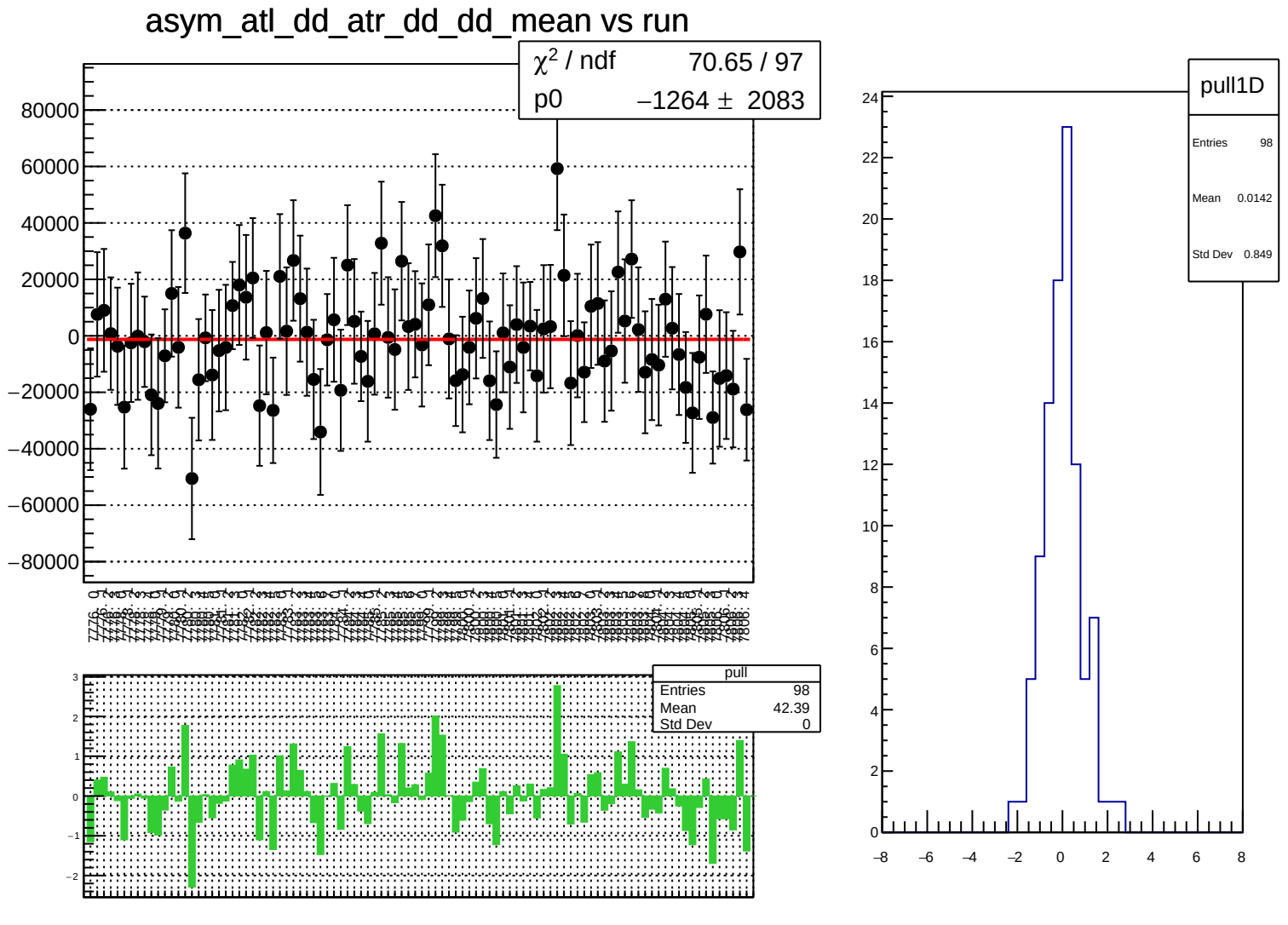

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.1 / 97
p0 −747.1± 1293
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 248.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02146
Std Dev 0.9316
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

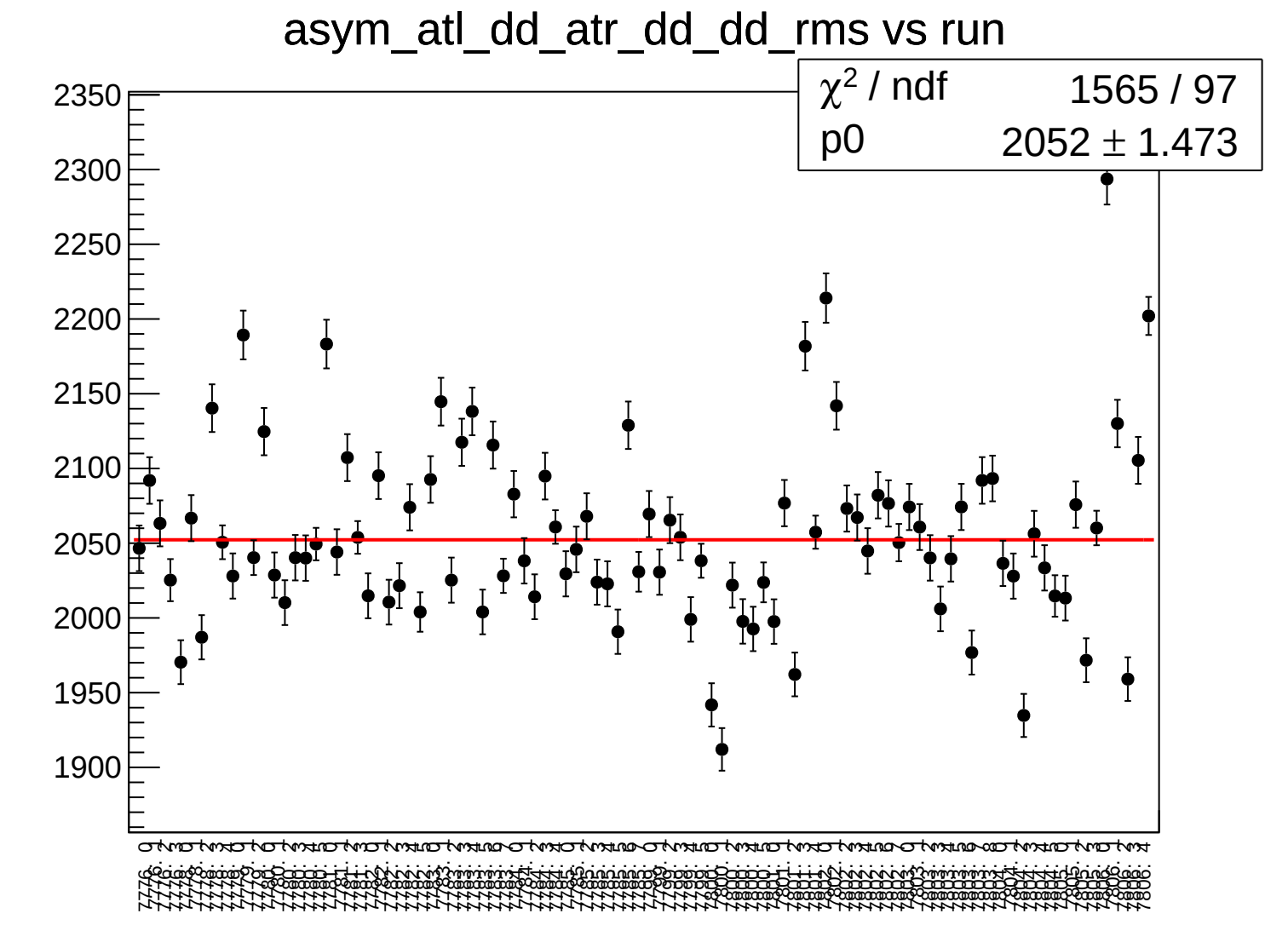

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 141.1 / 97
p0 1274 ± 0.9141
1360
1340
1320
1300
1280
1260
1240

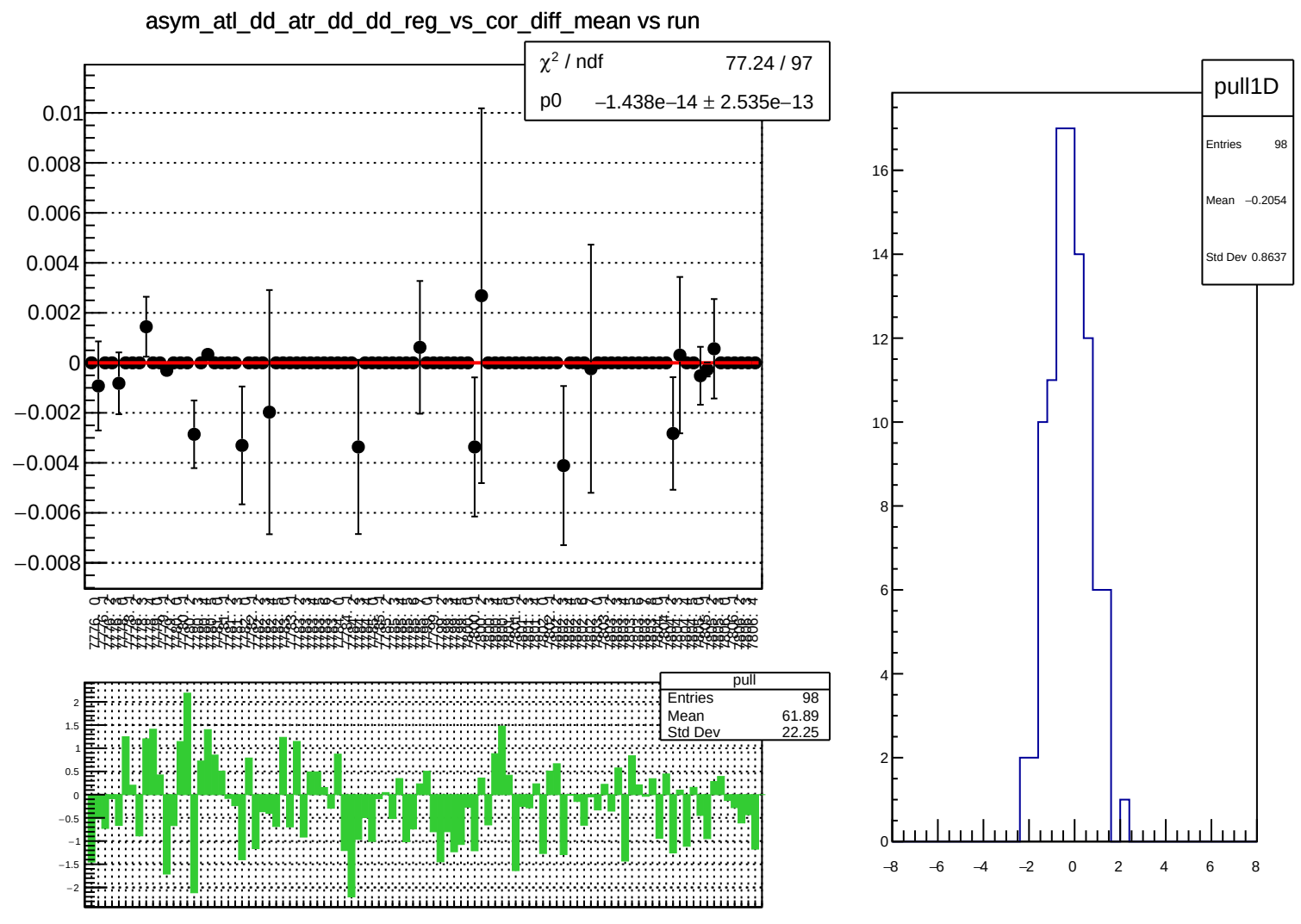

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.61 / 97
p0 601.8 ± 1644
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −997.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

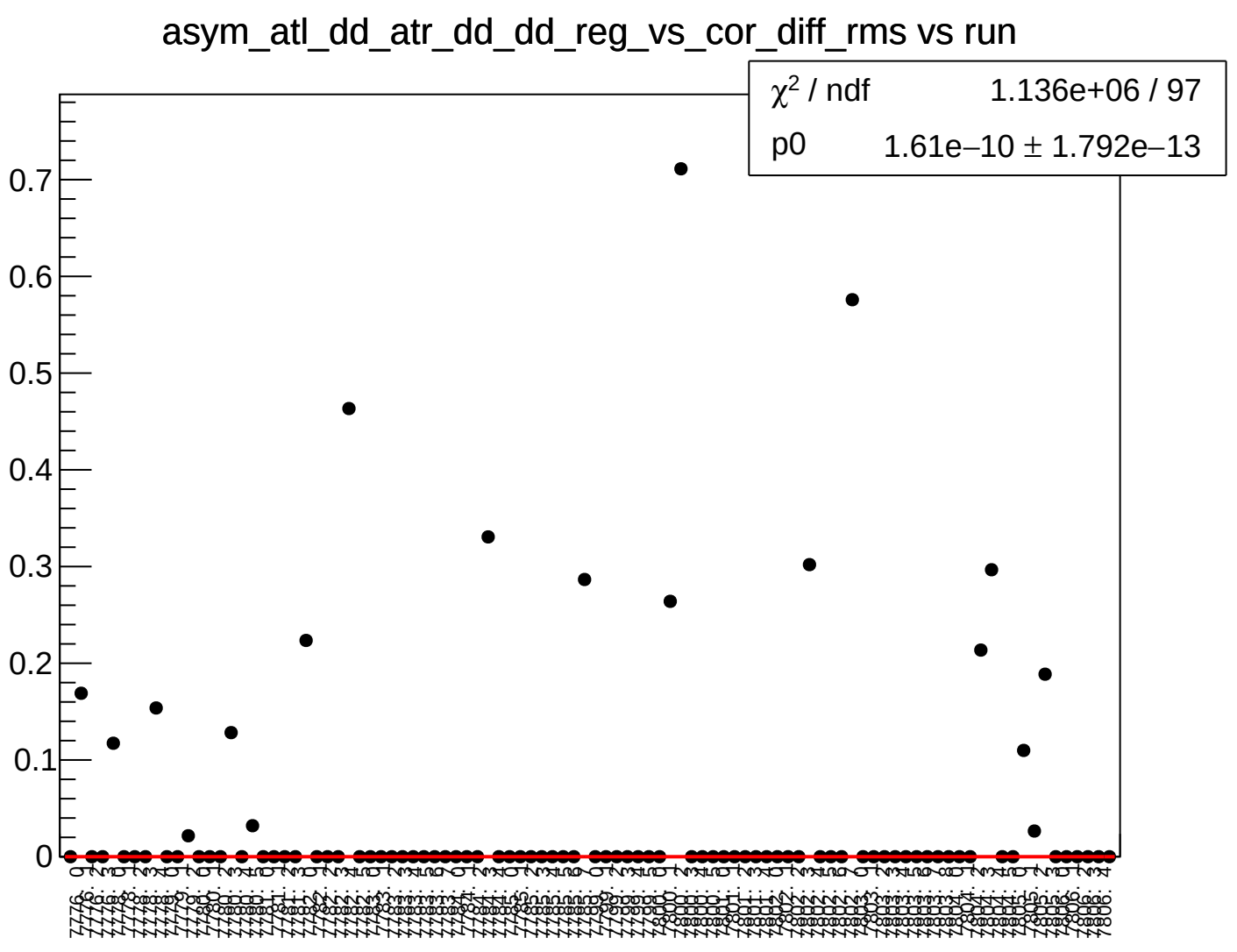

pull1D
Entries 98
Mean −0.00332
Std Dev 0.8488
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

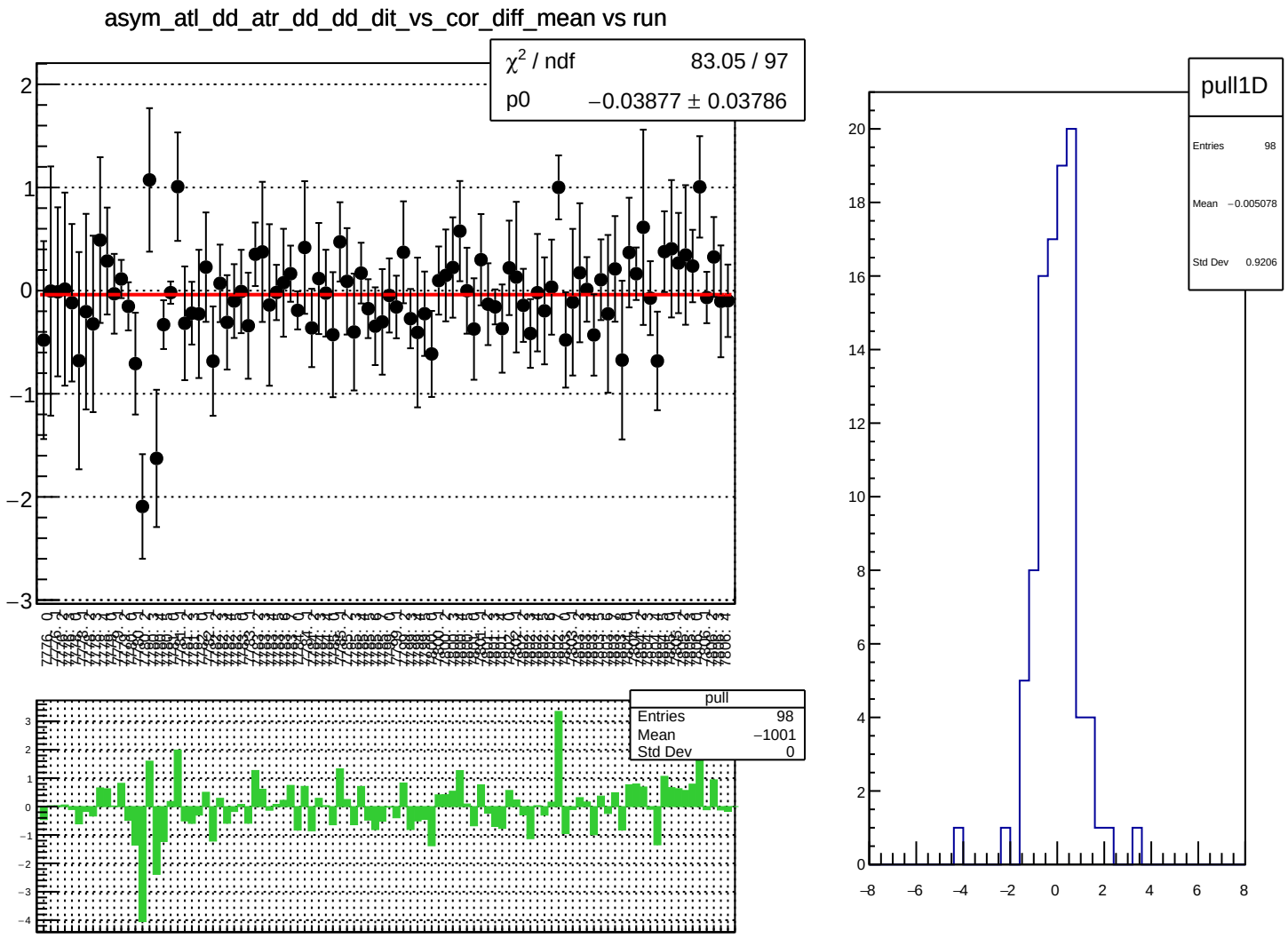

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4606 / 97
p0 1618 ± 1.162
2000
1900
1800
1700
1600
1500
1400

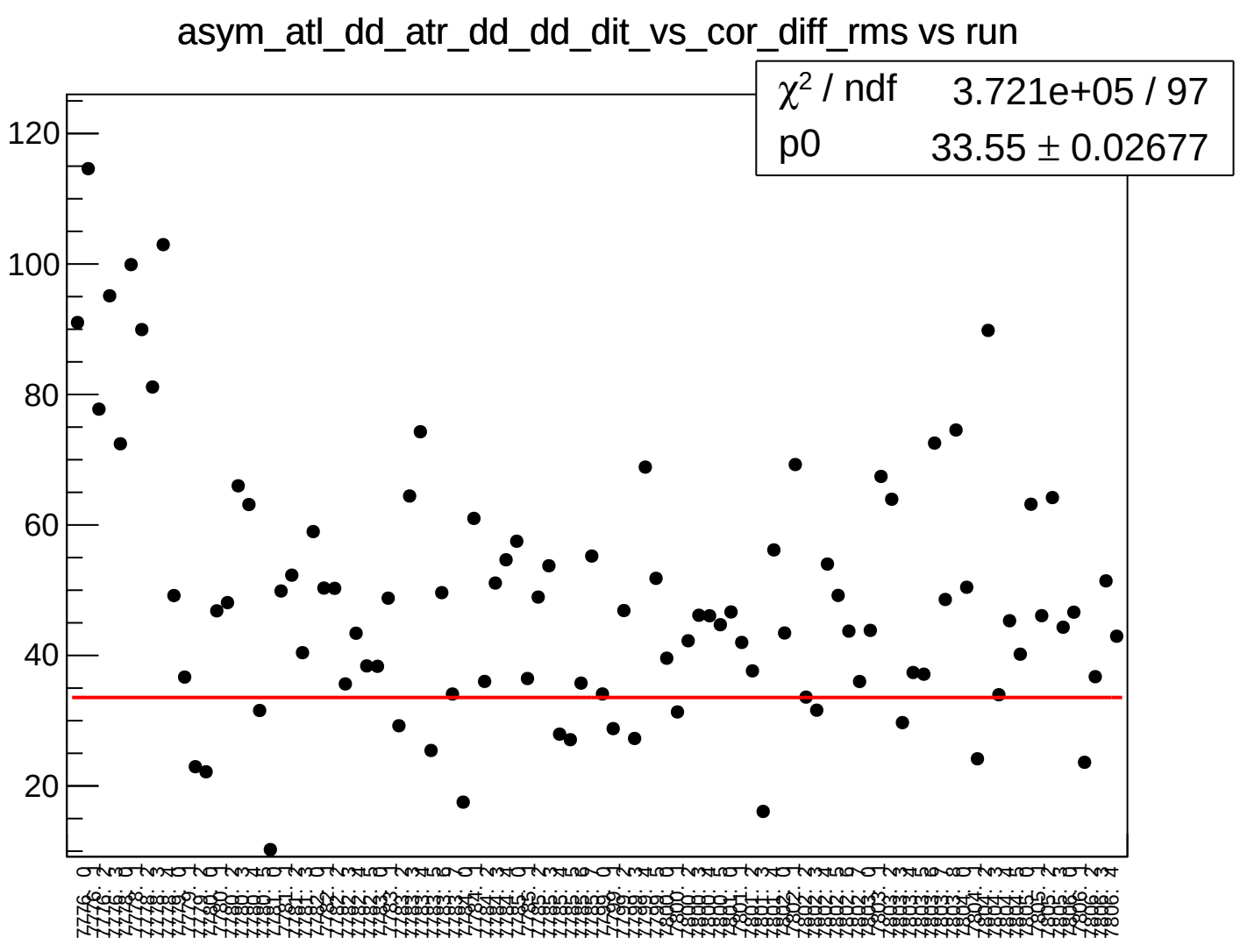

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 70.65 / 97
p0 −1264 ± 2083
pull
Entries 98
Mean 42.39
Std Dev 0
pull1D
Entries 98
Mean 0.0142
Std Dev 0.849

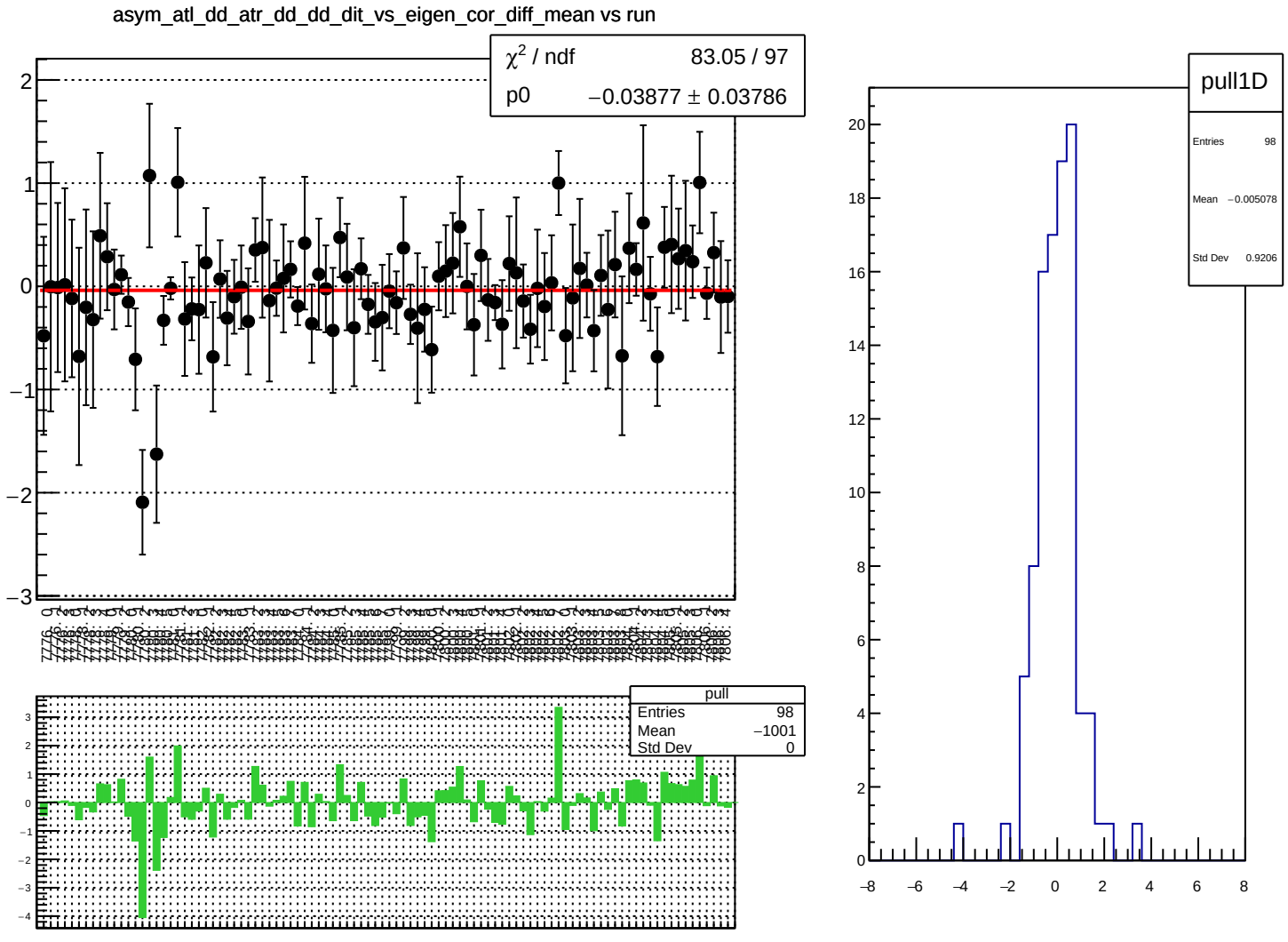

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1565 / 97
p0 2052 ± 1.473
2350
2300
2250
2200
2150
2100
2050
2000
1950
1900

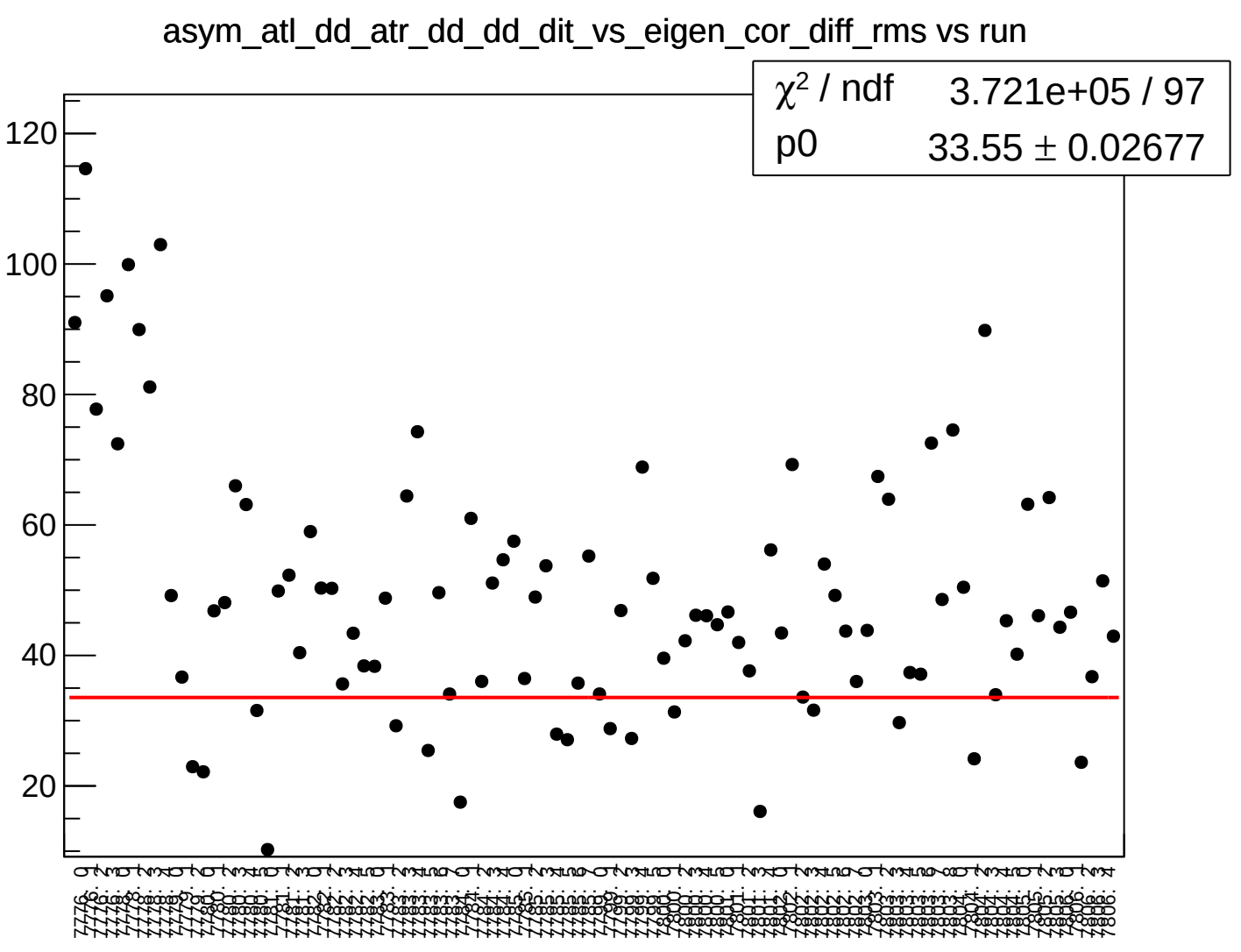

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.24 / 97
p0 −1.438e−14 ± 2.535e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 98
Mean 61.89
Std Dev 22.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.2054
Std Dev 0.8637
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

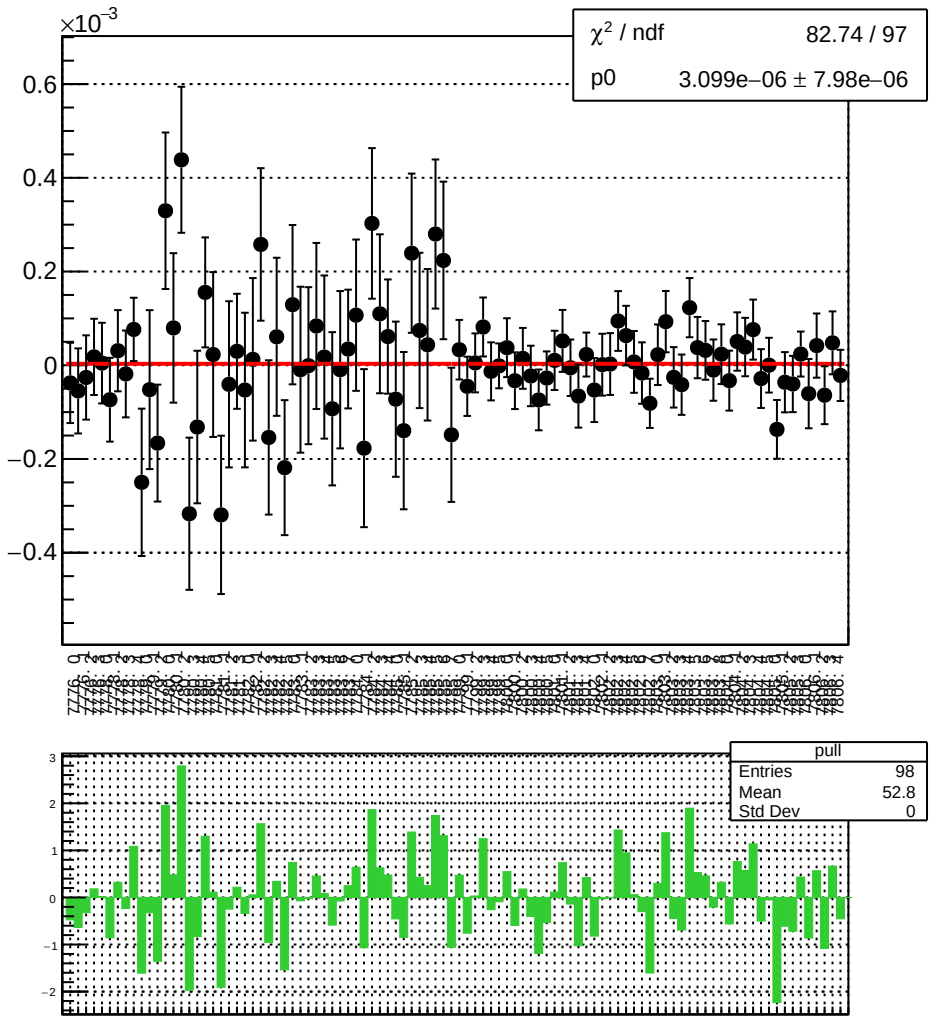

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.136e+06 / 97
p0 1.61e−10 ± 1.792e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

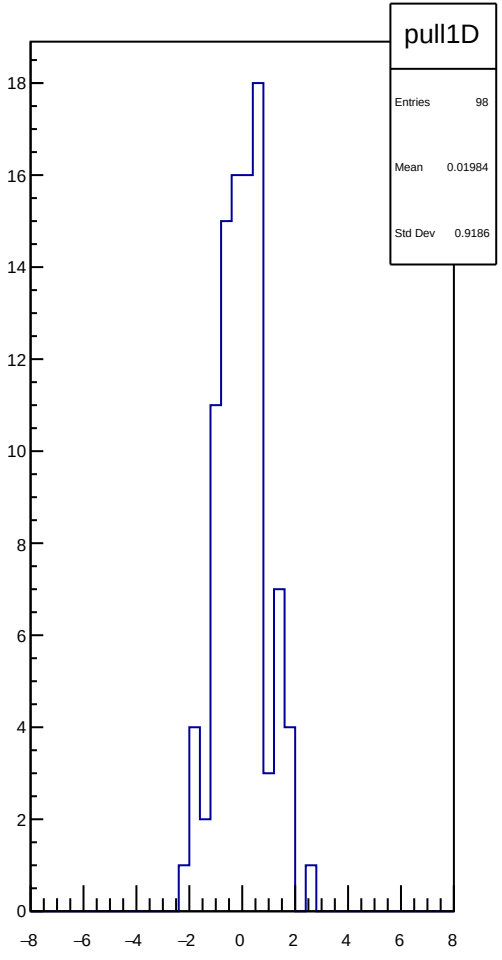

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.05 / 97
p0 −0.03877 ± 0.03786
pull
Entries 98
Mean −1001
Std Dev 0
pull1D
Entries 98
Mean −0.005078
Std Dev 0.9206

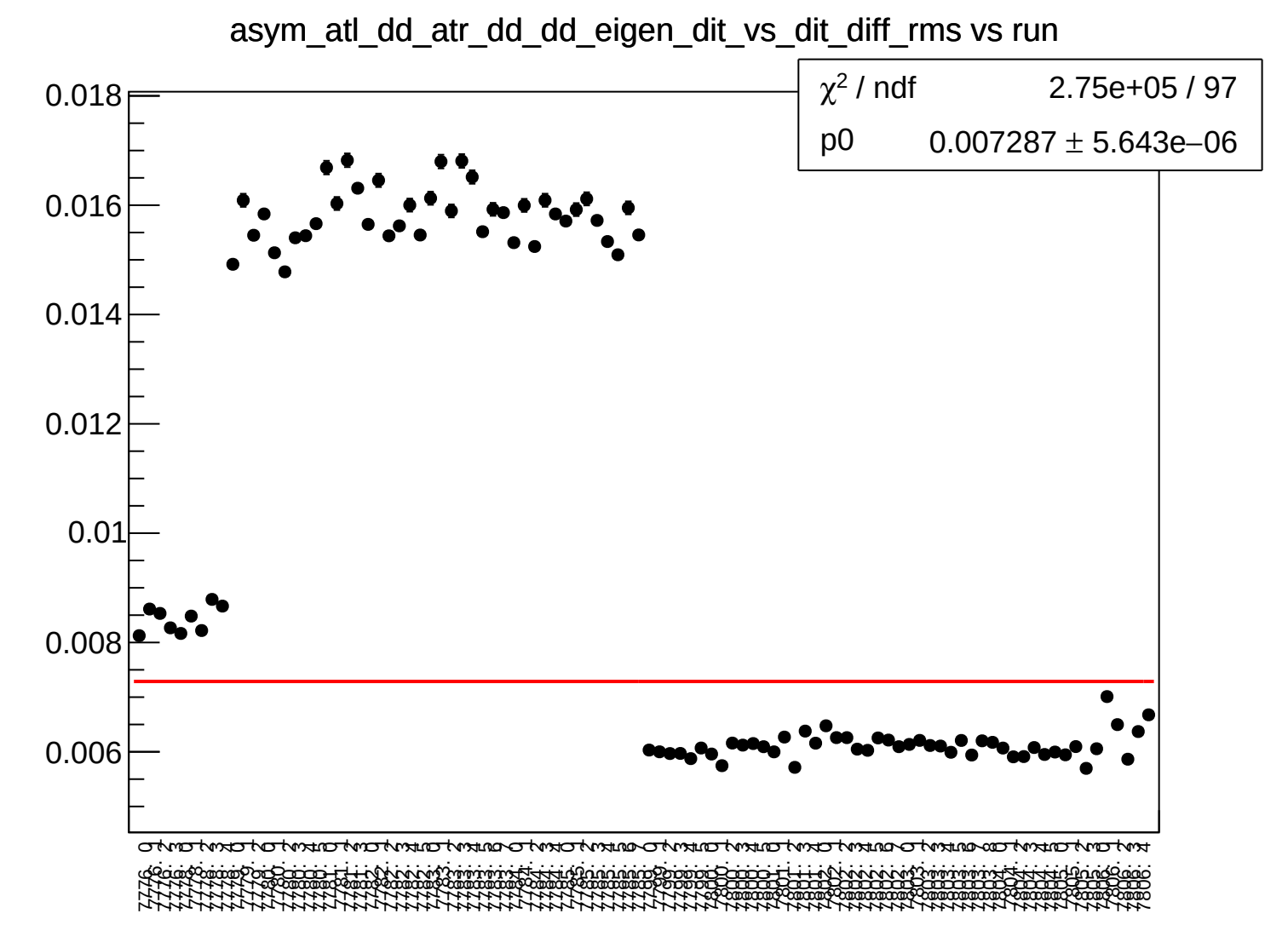

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.721e+05 / 97
p0 33.55 ± 0.02677
120
100
80
60
40
20

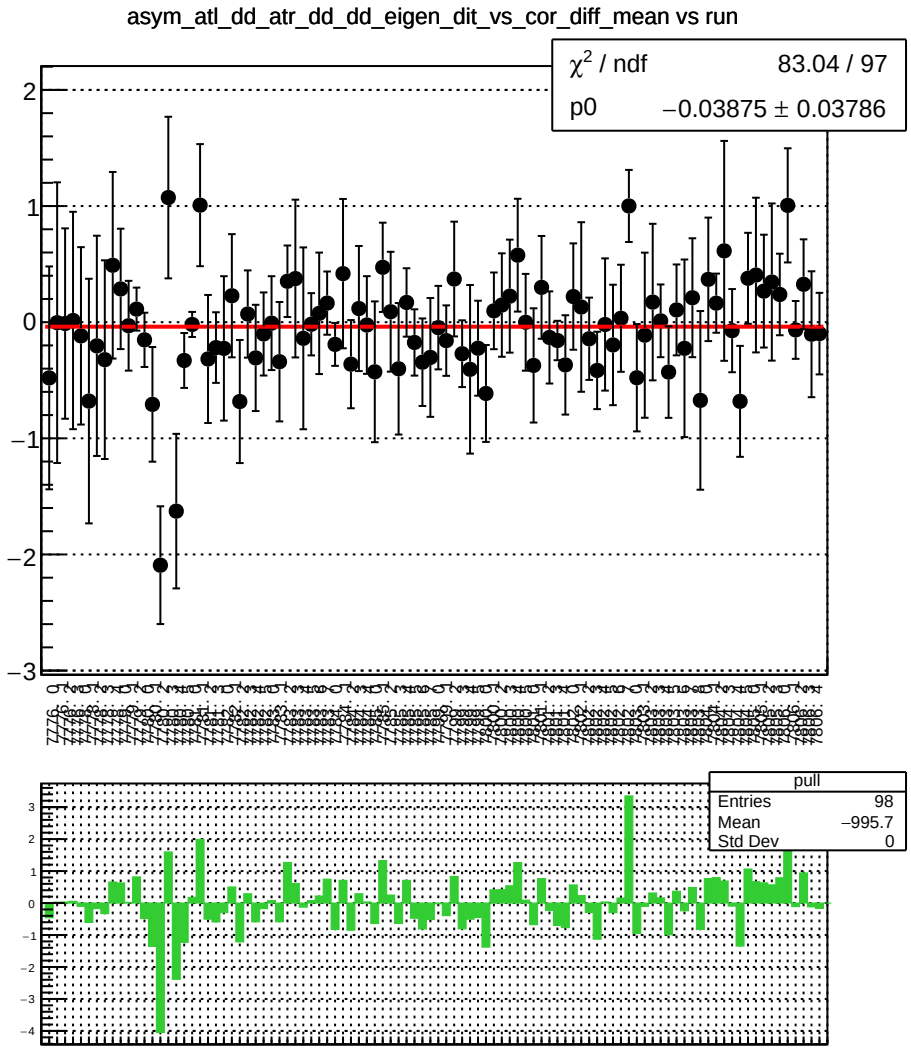

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.05 / 97
p0 −0.03877 ± 0.03786
pull
Entries 98
Mean −1001
Std Dev 0
pull1D
Entries 98
Mean −0.005078
Std Dev 0.9206

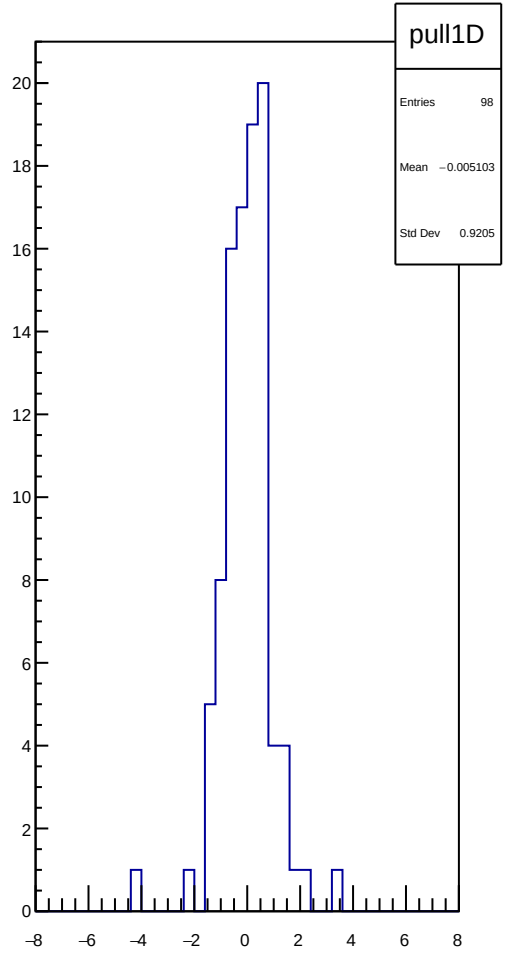

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.721e+05 / 97
p0 33.55 ± 0.02677
120
100
80
60
40
20

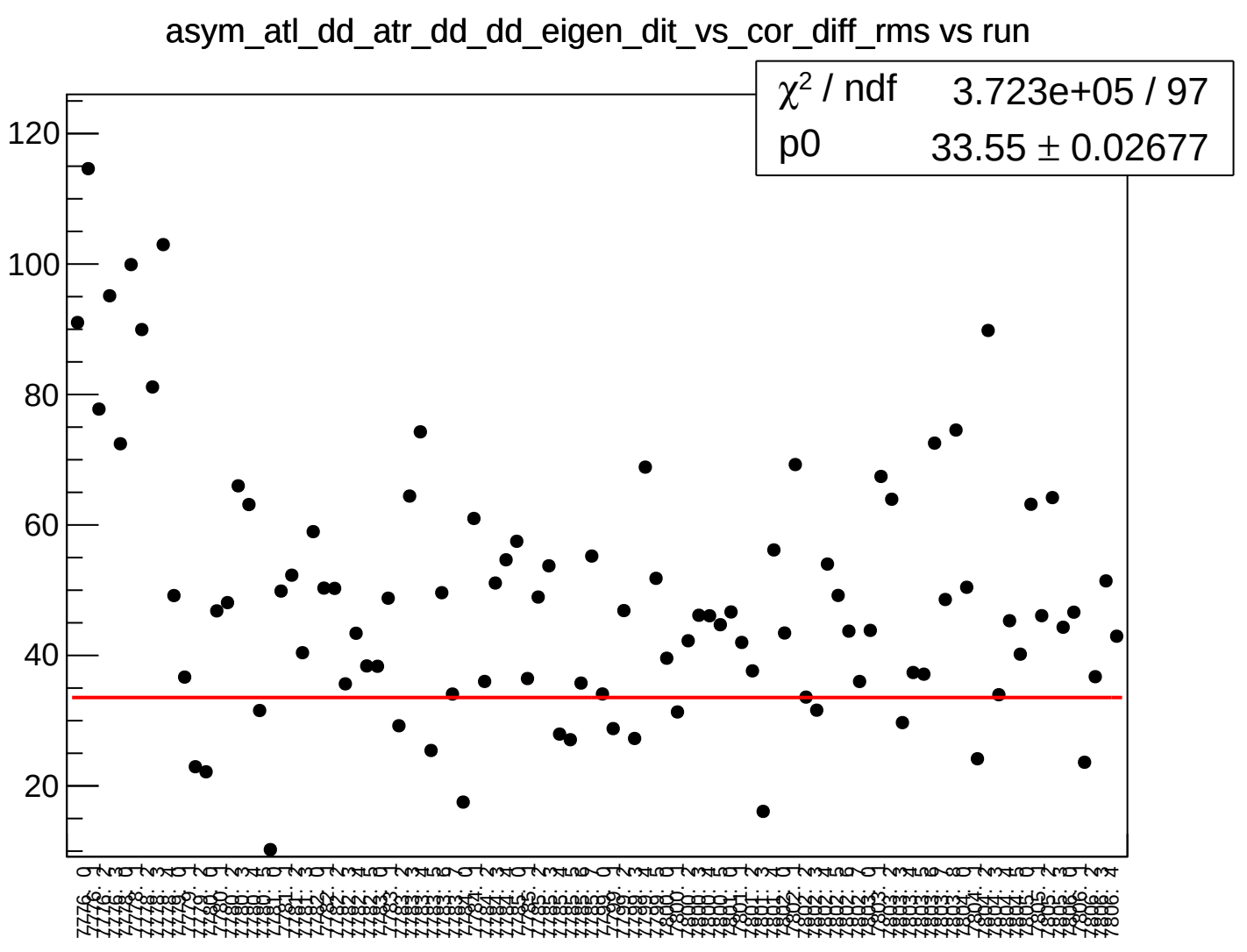

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 82.74 / 97
p0 3.099e−06 ± 7.98e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 98
Mean 52.8
Std Dev 0
3
2
1
0
−1
−2

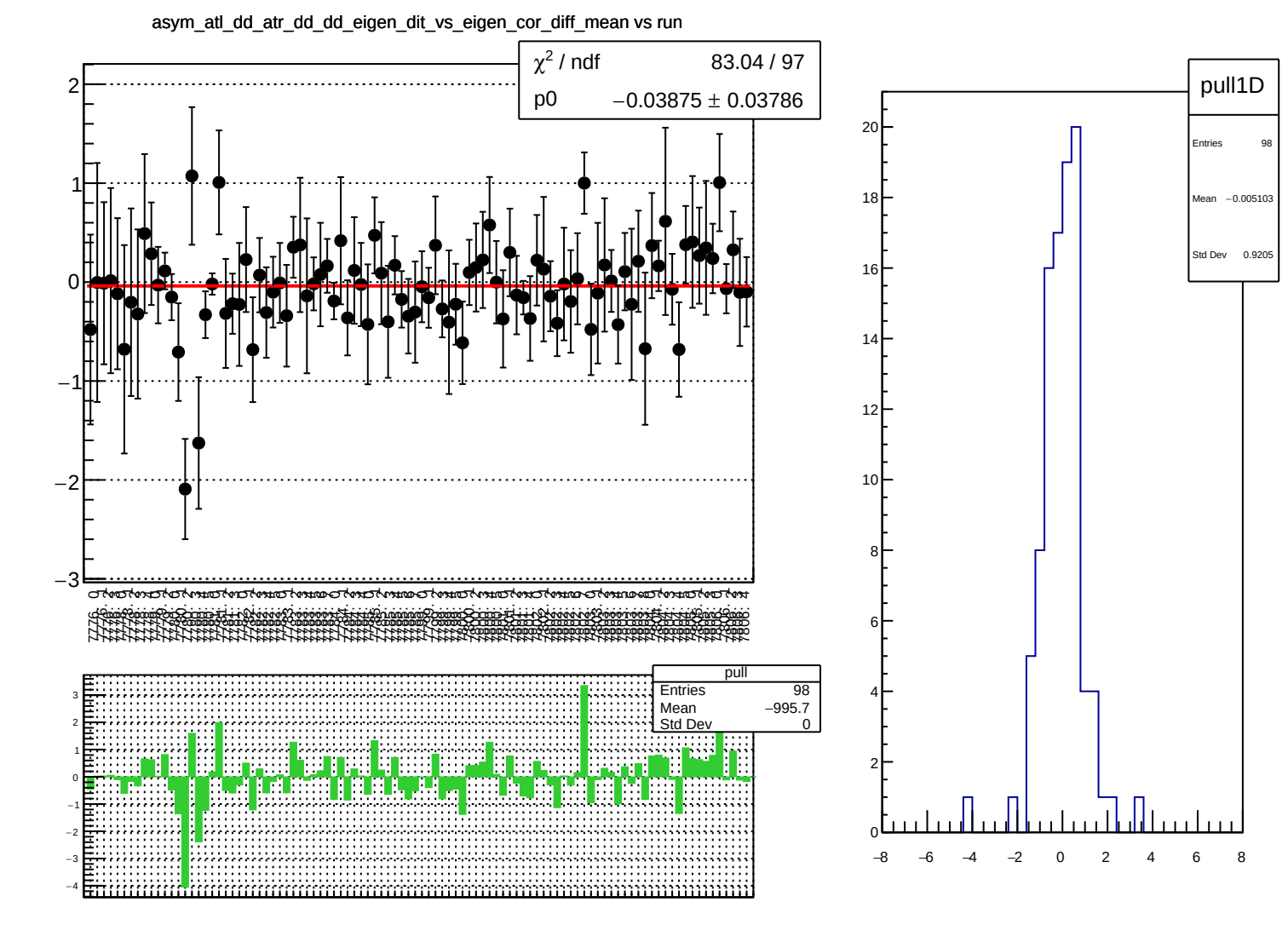

pull1D
Entries 98
Mean 0.01984
Std Dev 0.9186
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

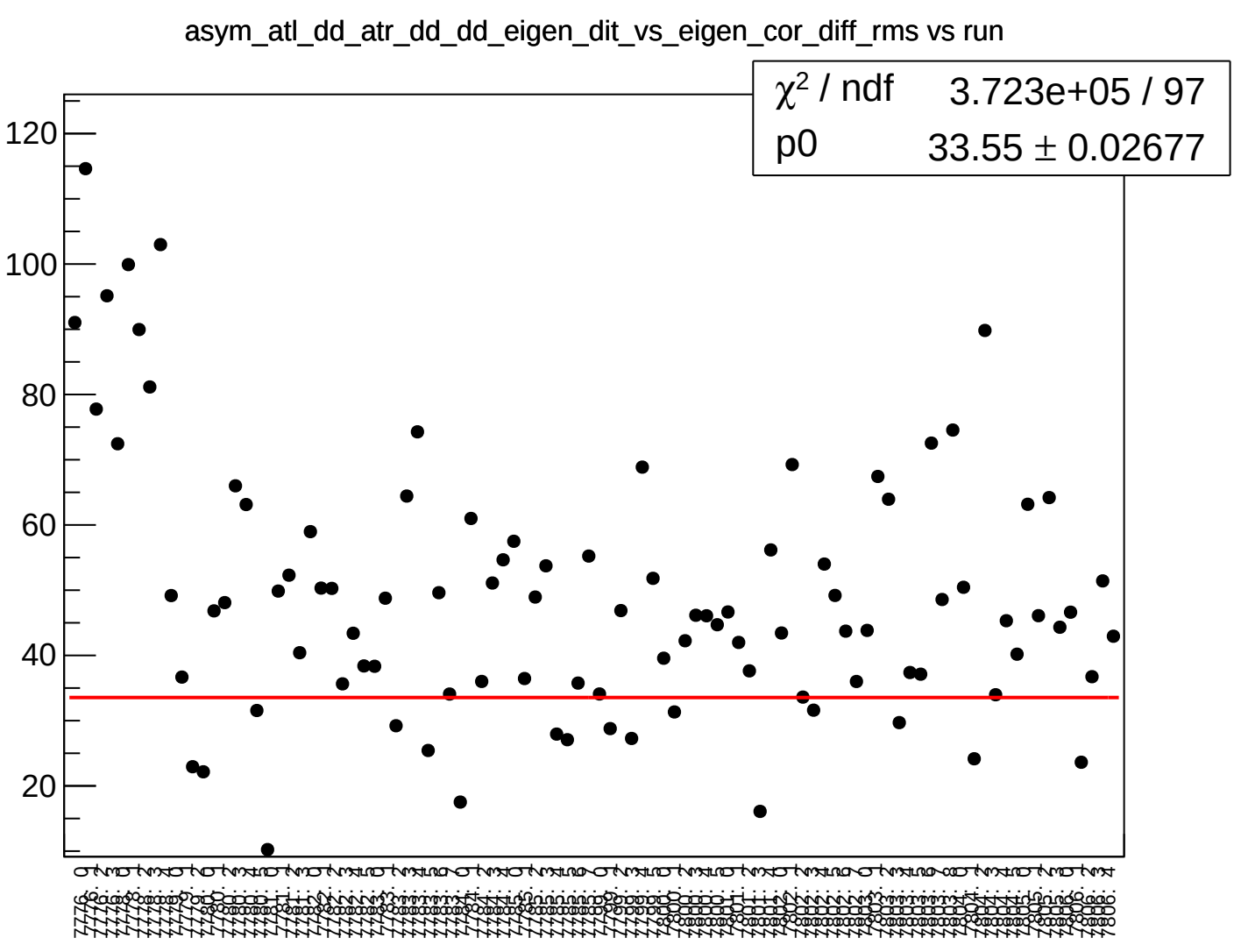

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.75e+05 / 97
p0 0.007287 ± 5.643e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

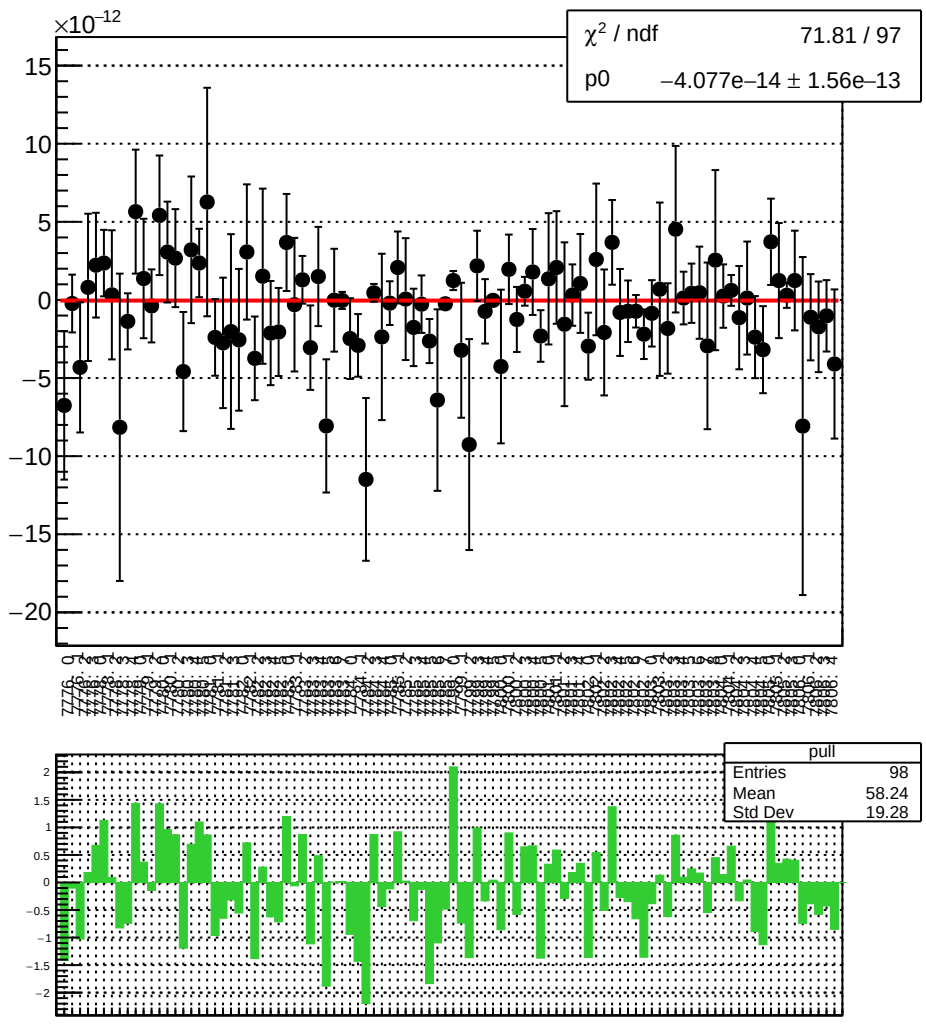

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.04 / 97
p0 −0.03875 ± 0.03786
pull
Entries 98
Mean −995.7
Std Dev 0

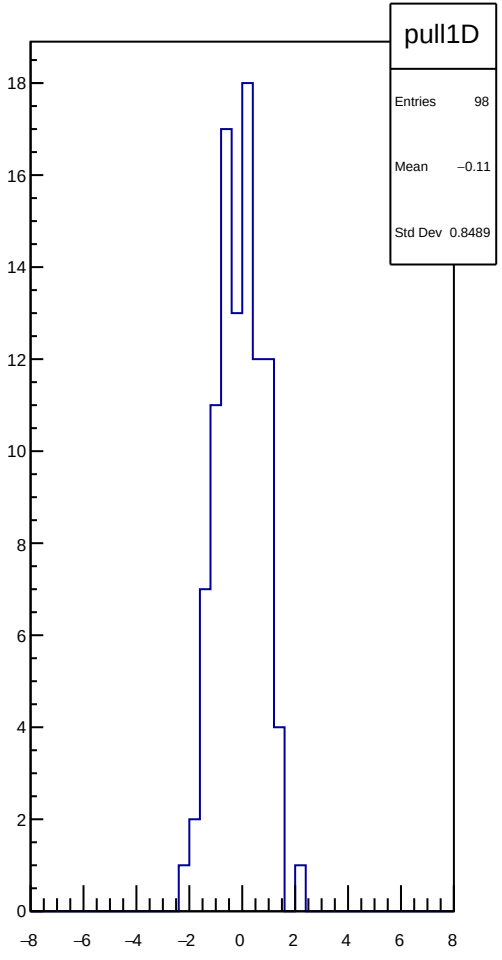

pull1D
Entries 98
Mean −0.005103
Std Dev 0.9205

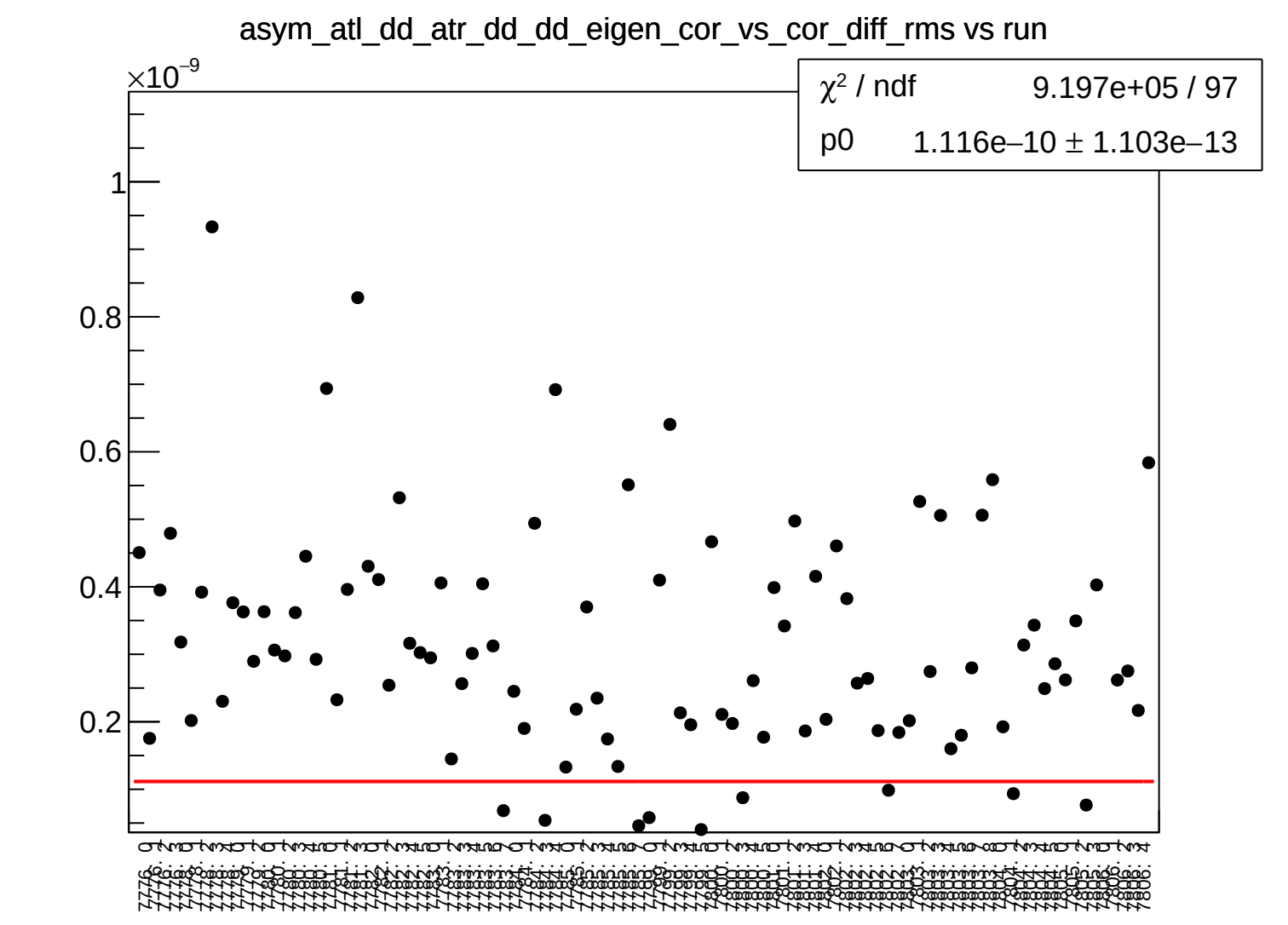

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.723e+05 / 97
p0 33.55 ± 0.02677
120
100
80
60
40
20

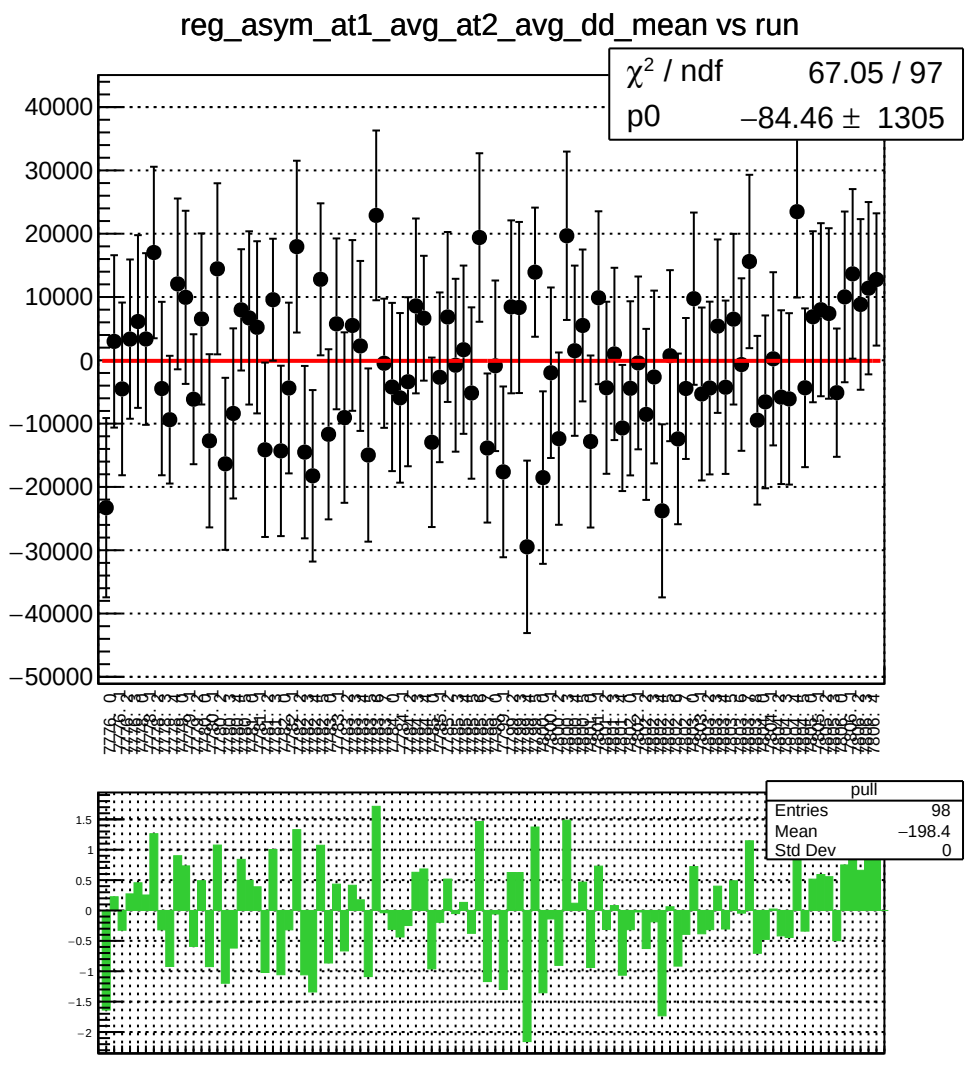

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.04 / 97
p0 −0.03875 ± 0.03786
pull
Entries 98
Mean −995.7
Std Dev 0
pull1D
Entries 98
Mean −0.005103
Std Dev 0.9205

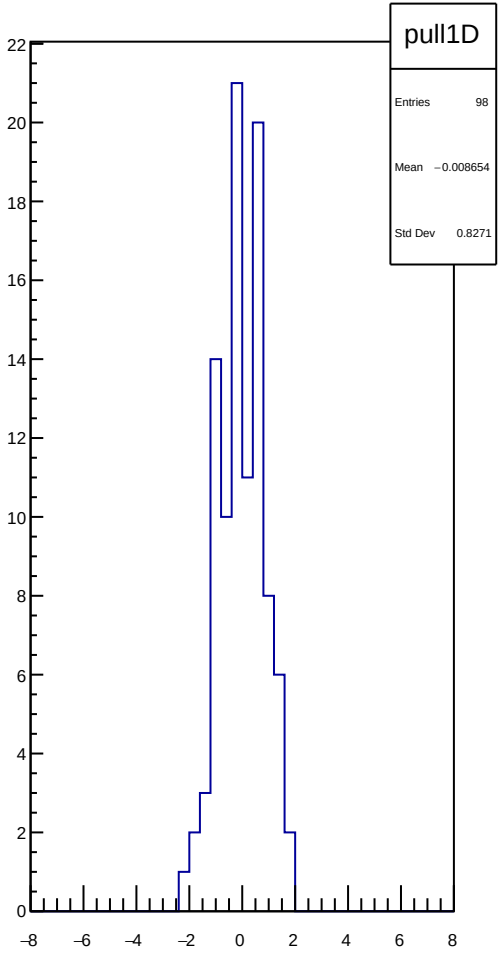

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.723e+05 / 97
p0 33.55 ± 0.02677
120
100
80
60
40
20

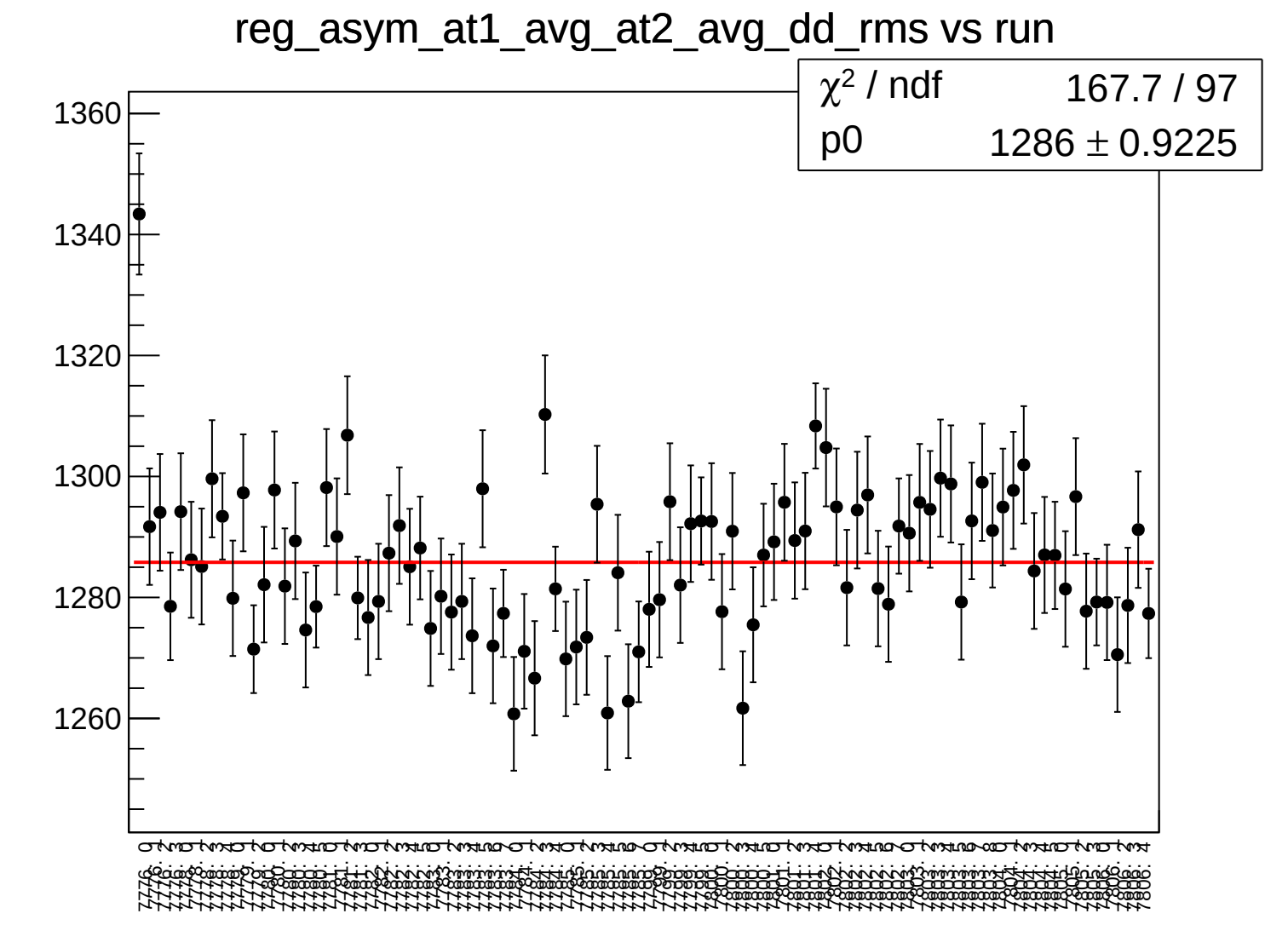

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 71.81 / 97
p0 −4.077e−14 ± 1.56e−13
pull
Entries 98
Mean 58.24
Std Dev 19.28

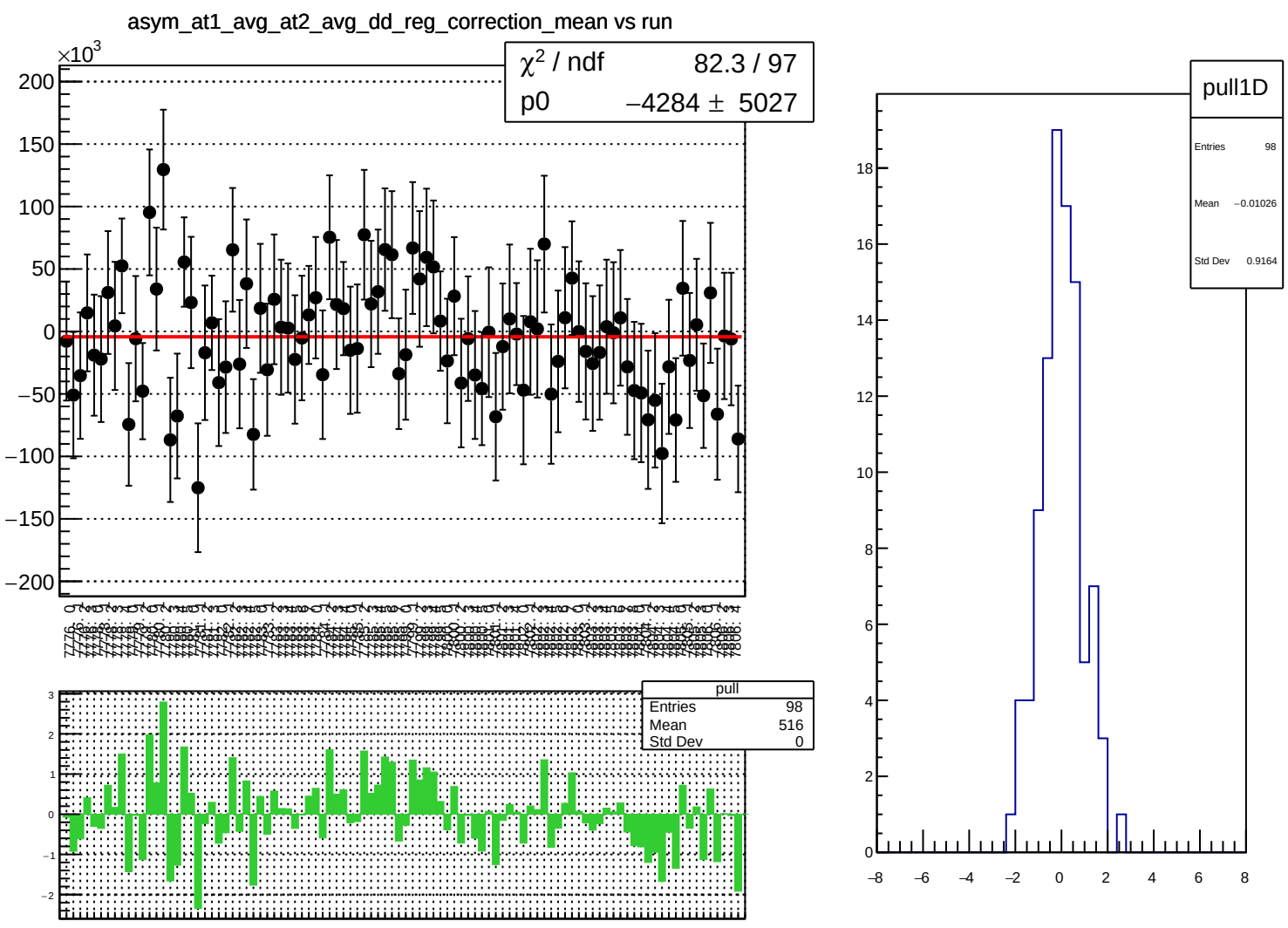

pull1D
Entries 98
Mean −0.11
Std Dev 0.8489

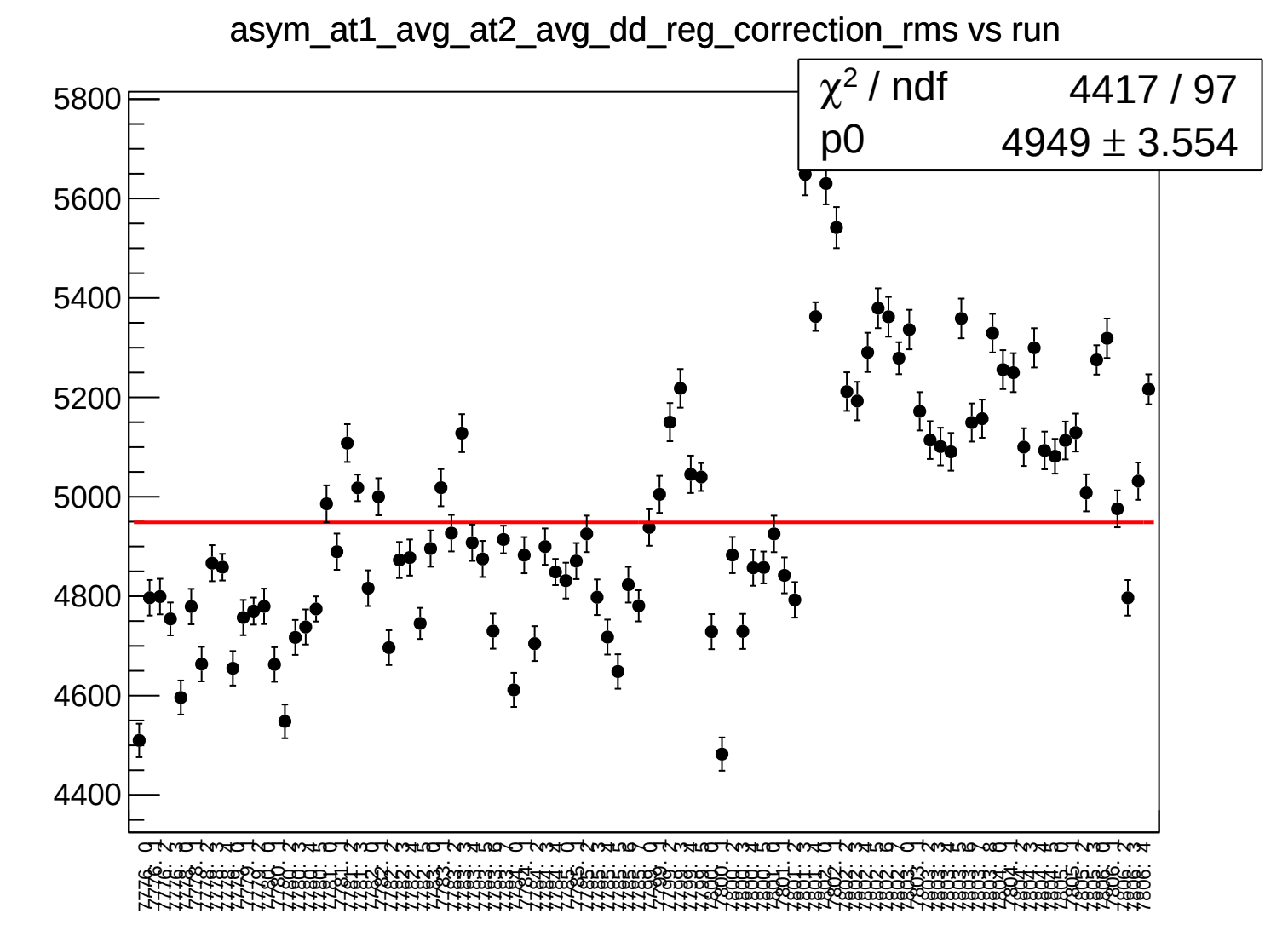

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.197e+05 / 97
p0 1.116e−10 ± 1.103e−13
1
0.8
0.6
0.4
0.2

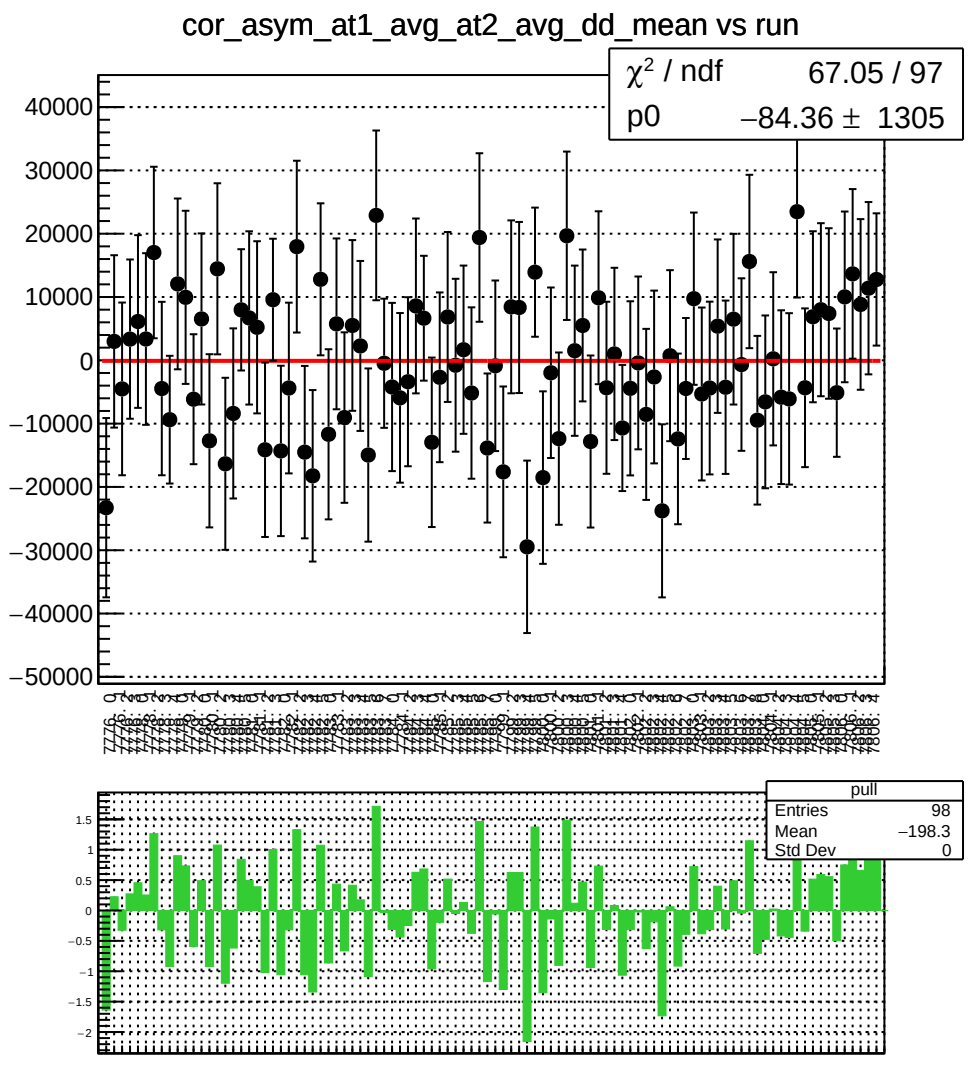

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.05 / 97
p0 −84.46 ± 1305
pull
Entries 98
Mean −198.4
Std Dev 0

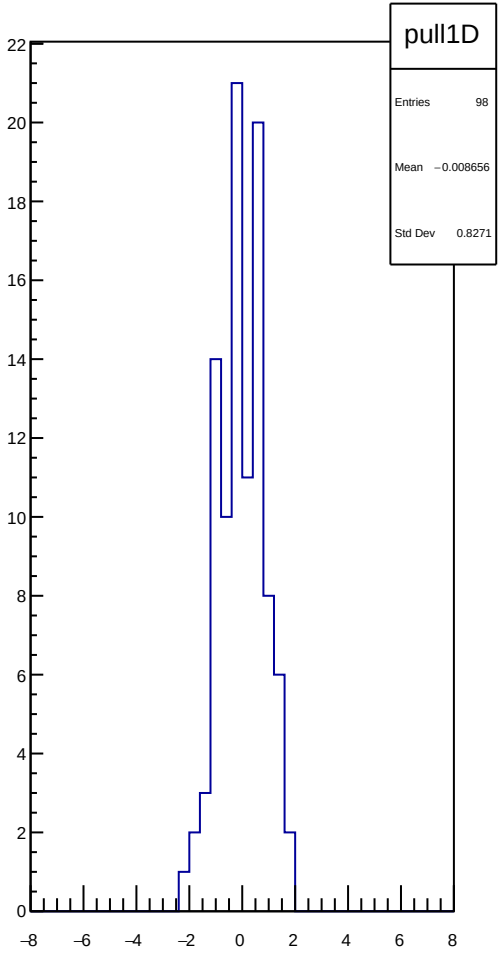

pull1D
Entries 98
Mean −0.008654
Std Dev 0.8271

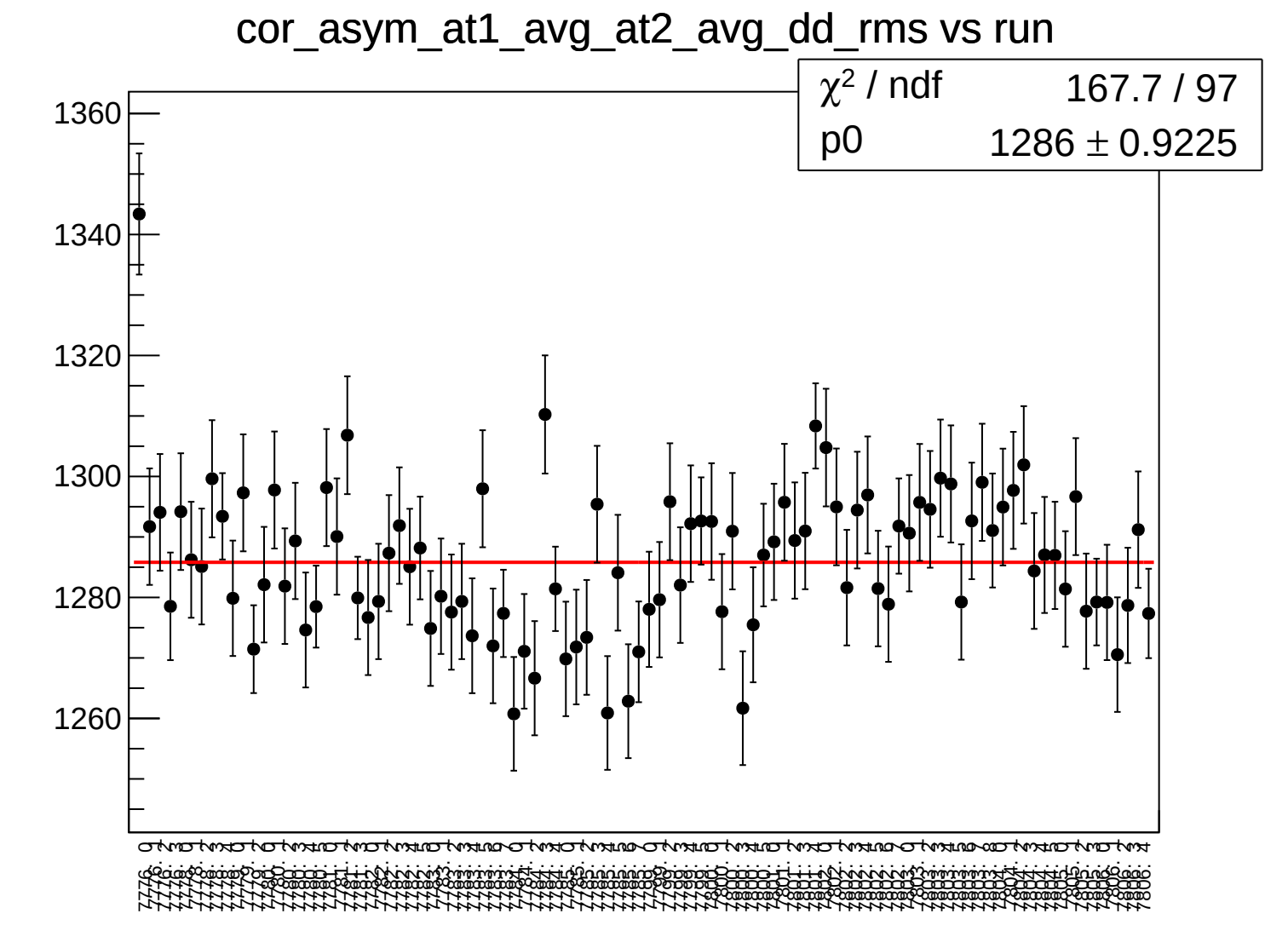

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 167.7 / 97
p0 1286 ± 0.9225
1360
1340
1320
1300
1280
1260

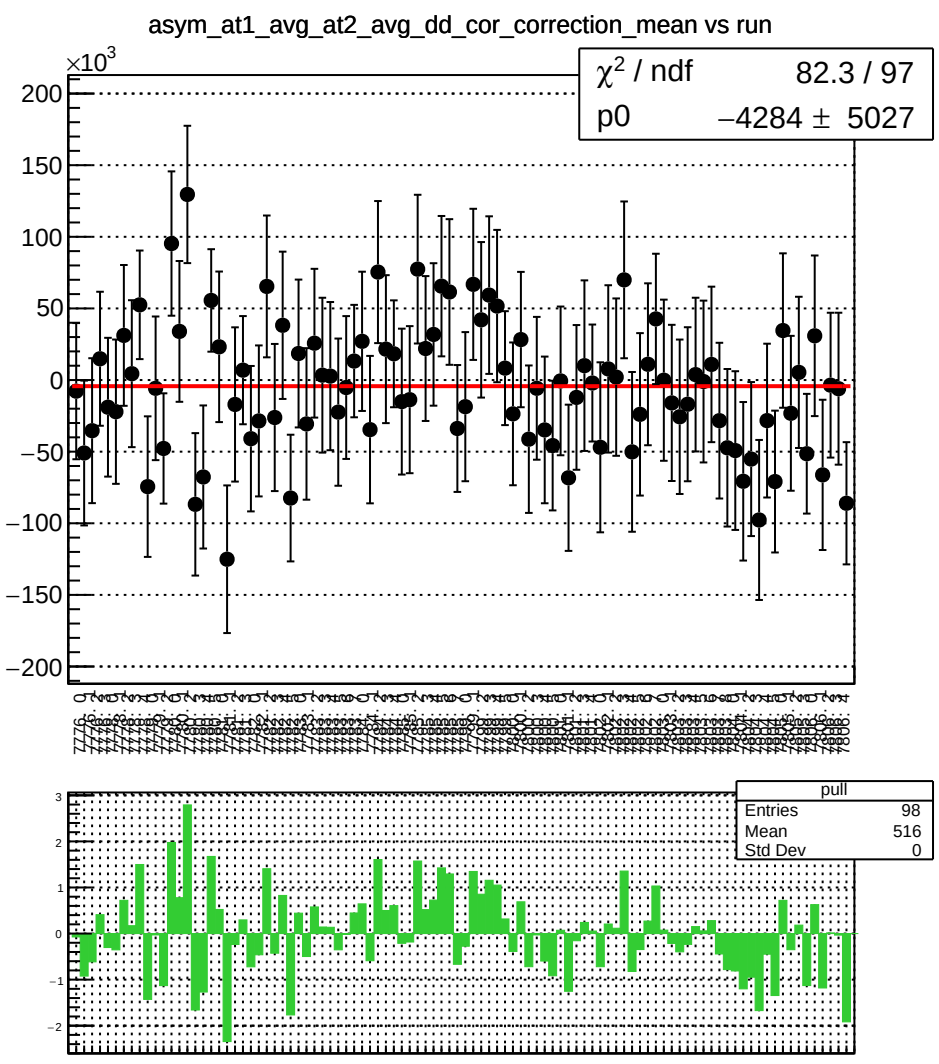

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.3 / 97
p0 −4284 ± 5027
pull
Entries 98
Mean 516
Std Dev 0
pull1D
Entries 98
Mean −0.01026
Std Dev 0.9164

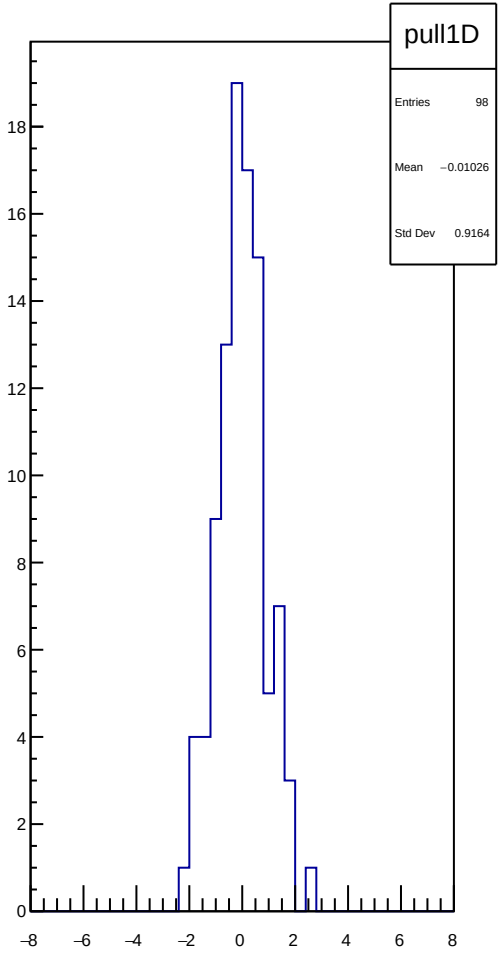

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 4417 / 97
p0 4949 ± 3.554
5800
5600
5400
5200
5000
4800
4600
4400

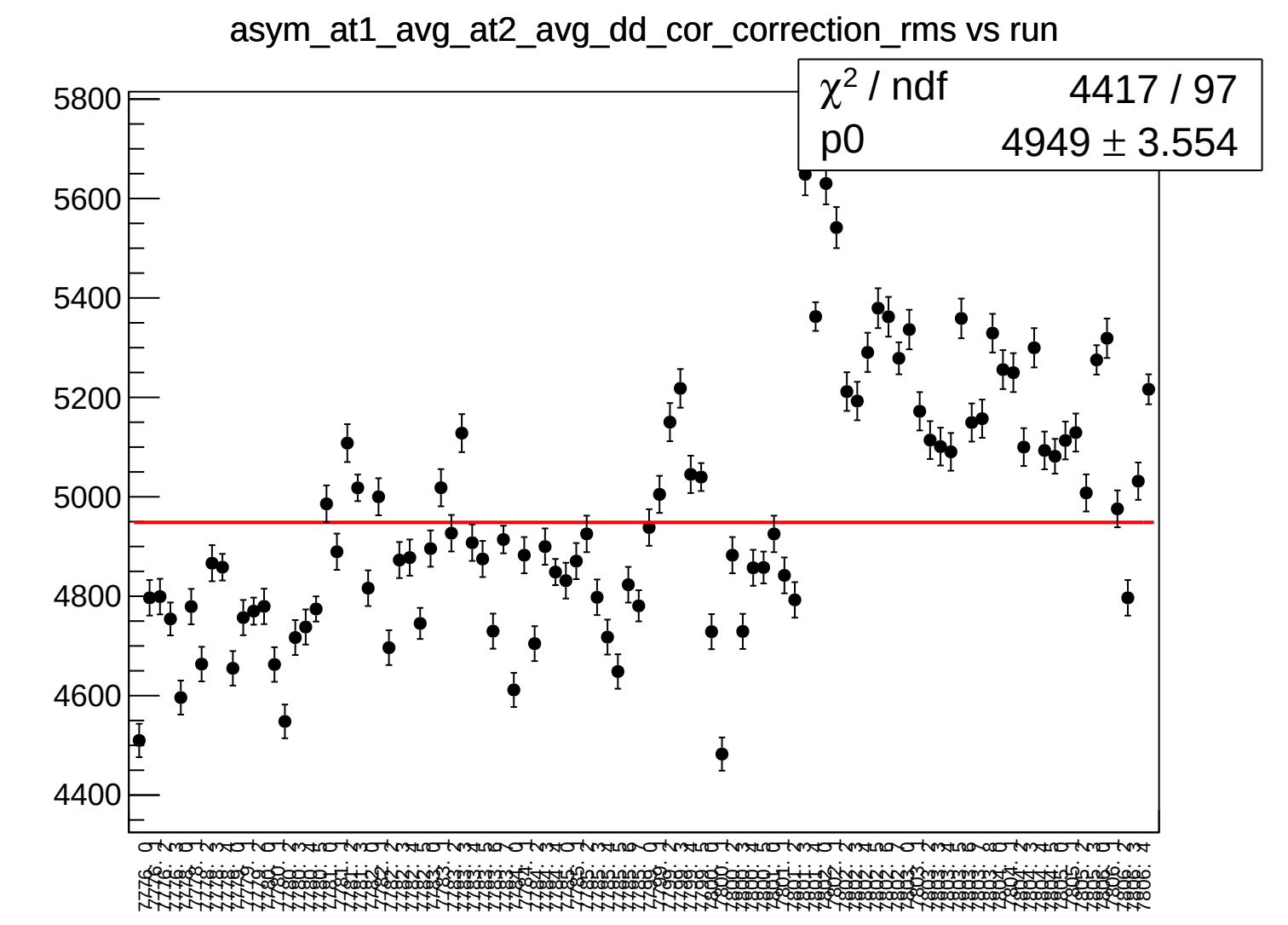

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.05 / 97
p0 −84.36 ± 1305
pull
Entries 98
Mean −198.3
Std Dev 0

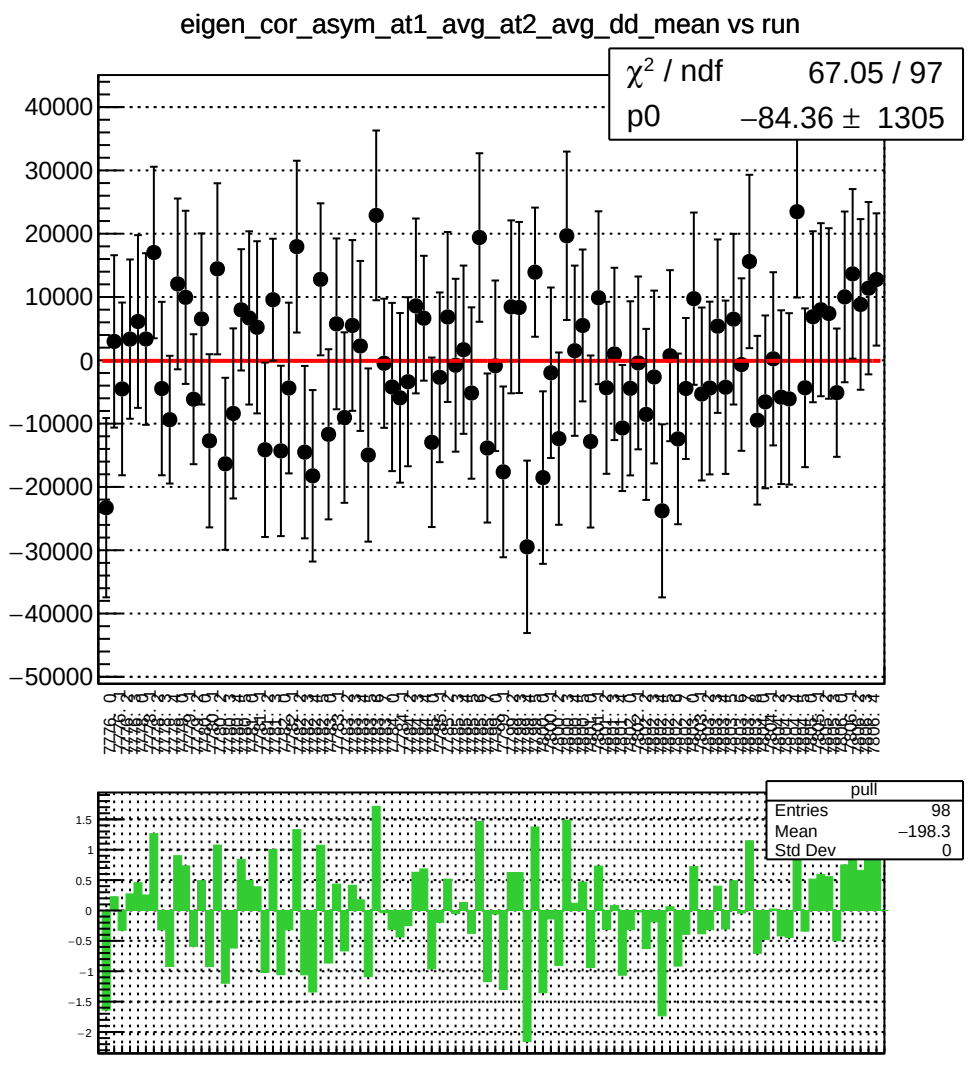

pull1D
Entries 98
Mean −0.008656
Std Dev 0.8271

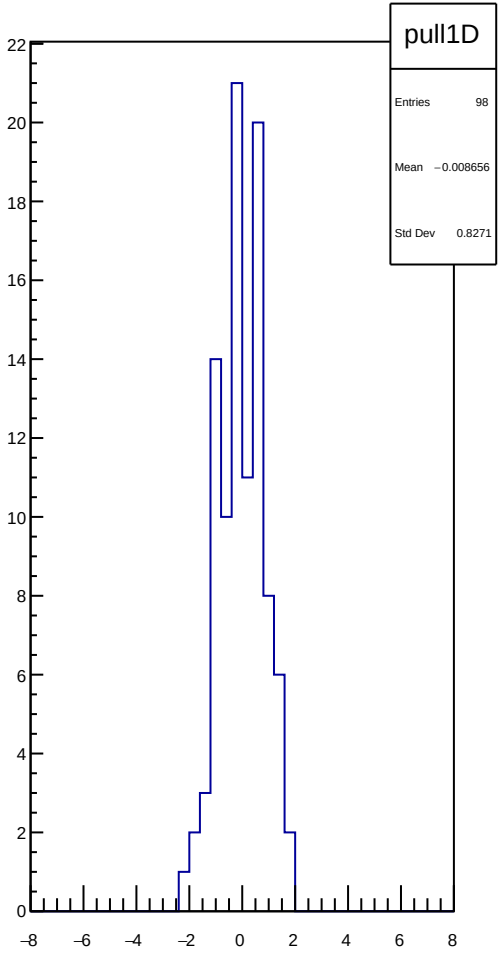

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 167.7 / 97
p0 1286 ± 0.9225
1360
1340
1320
1300
1280
1260

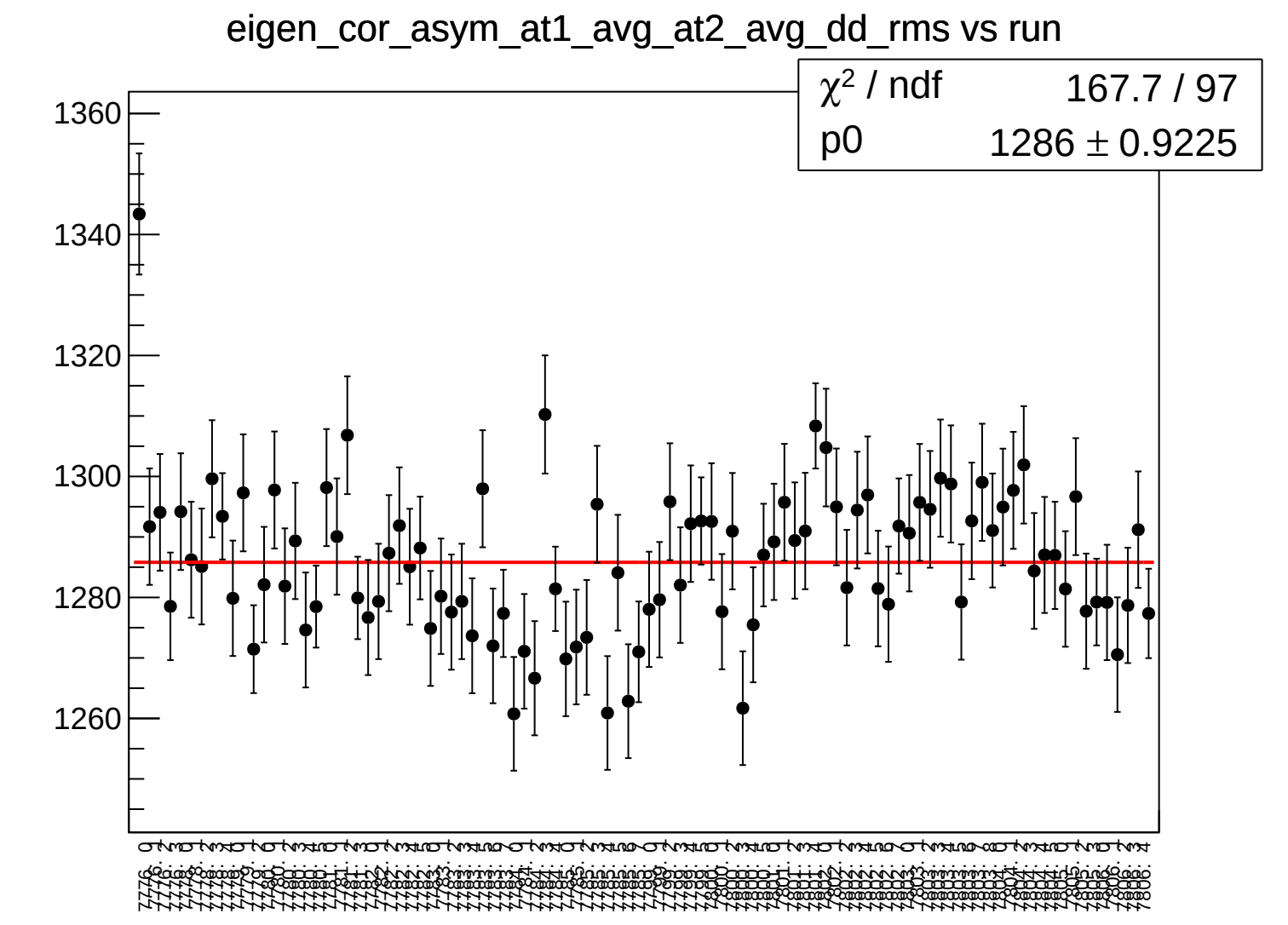

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.3 / 97
p0 −4284 ± 5027
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 516
Std Dev 0
3
2
1
0
−1
−2

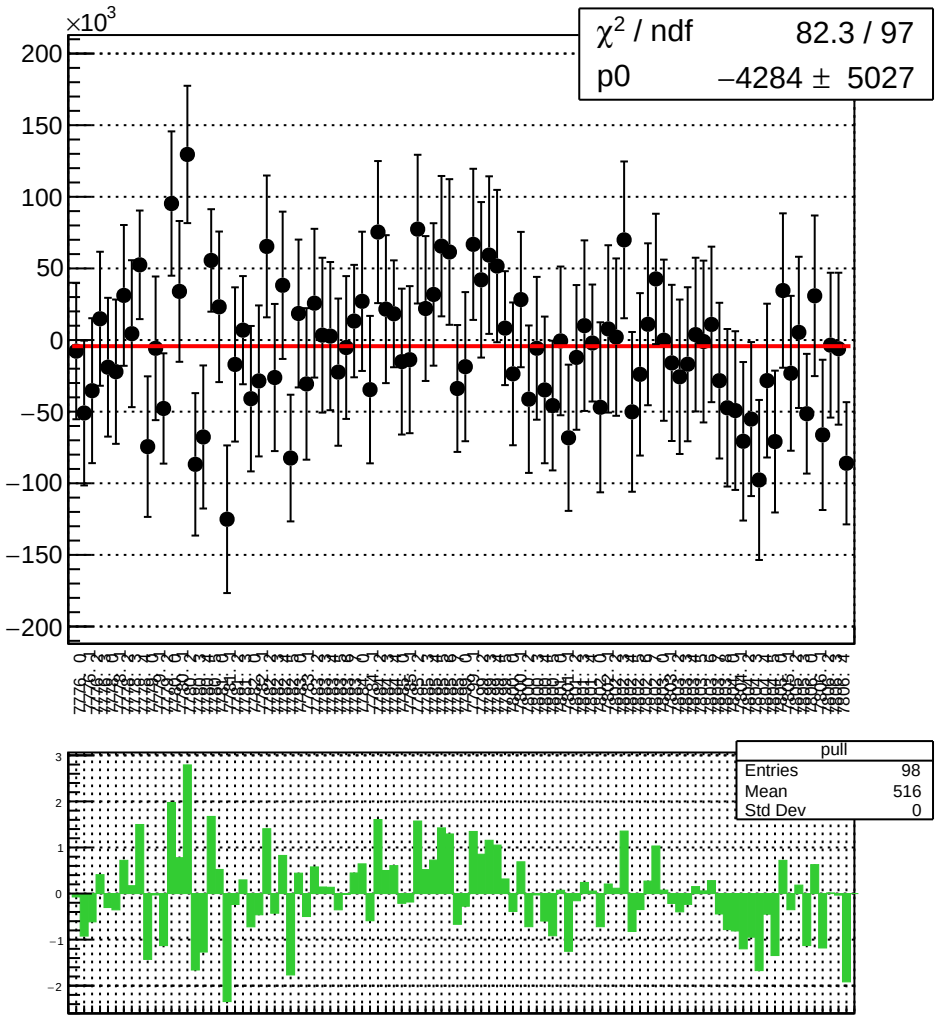

pull1D
Entries 98
Mean −0.01026
Std Dev 0.9164
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

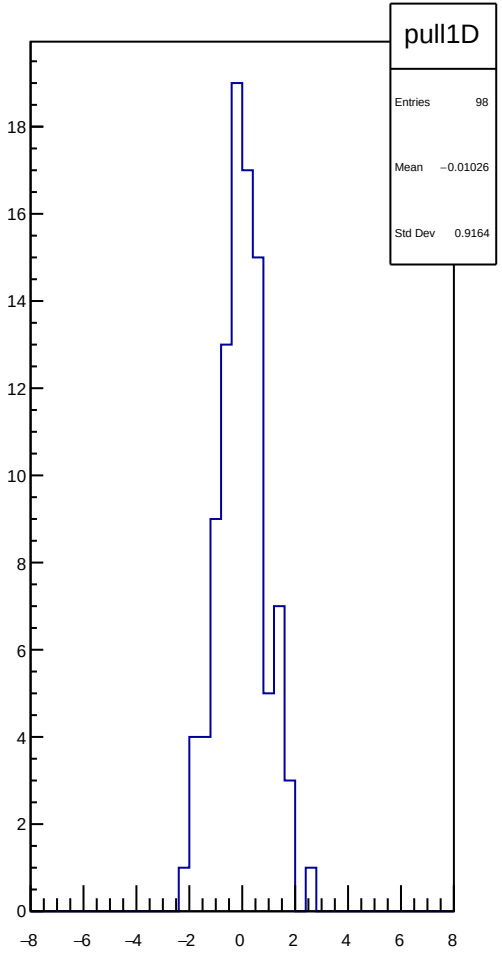

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 4417 / 97
p0 4949 ± 3.554
5800
5600
5400
5200
5000
4800
4600
4400

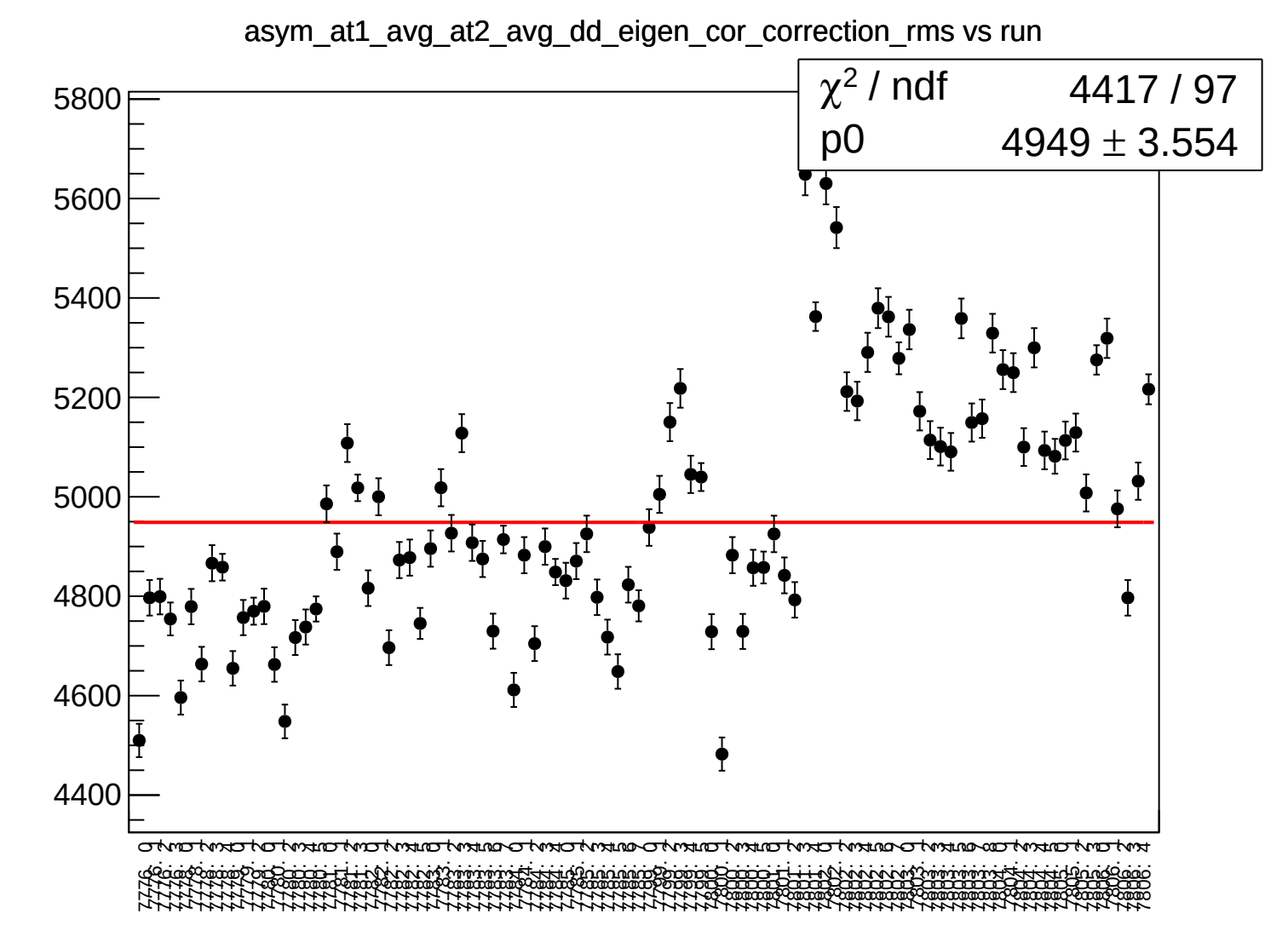

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.05 / 97
p0 −84.36 ± 1305
pull
Entries 98
Mean −198.3
Std Dev 0

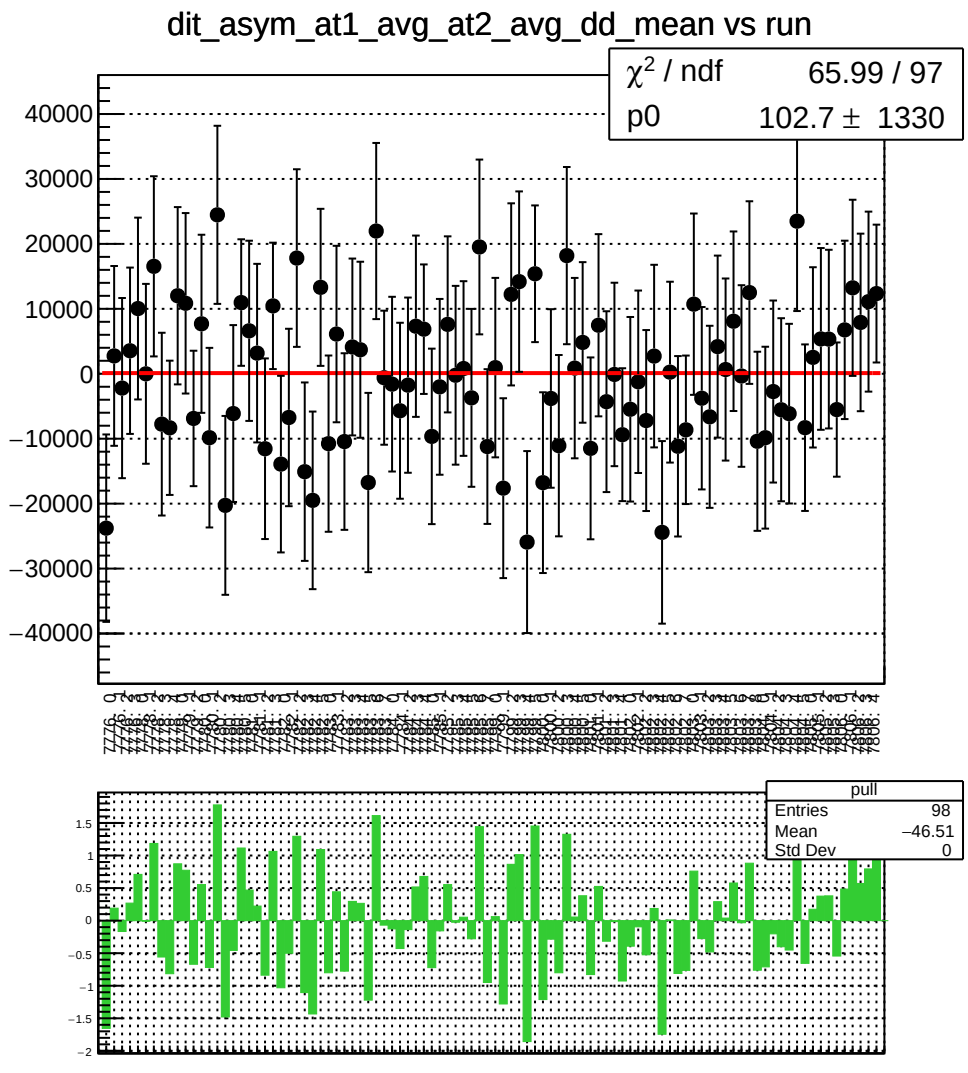

pull1D
Entries 98
Mean −0.008656
Std Dev 0.8271

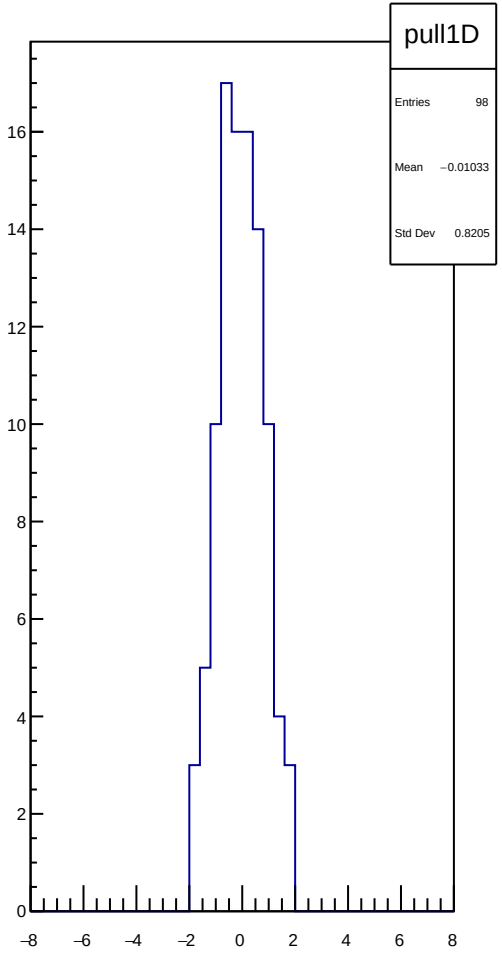

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 167.7 / 97
p0 1286 ± 0.9225
1360
1340
1320
1300
1280
1260

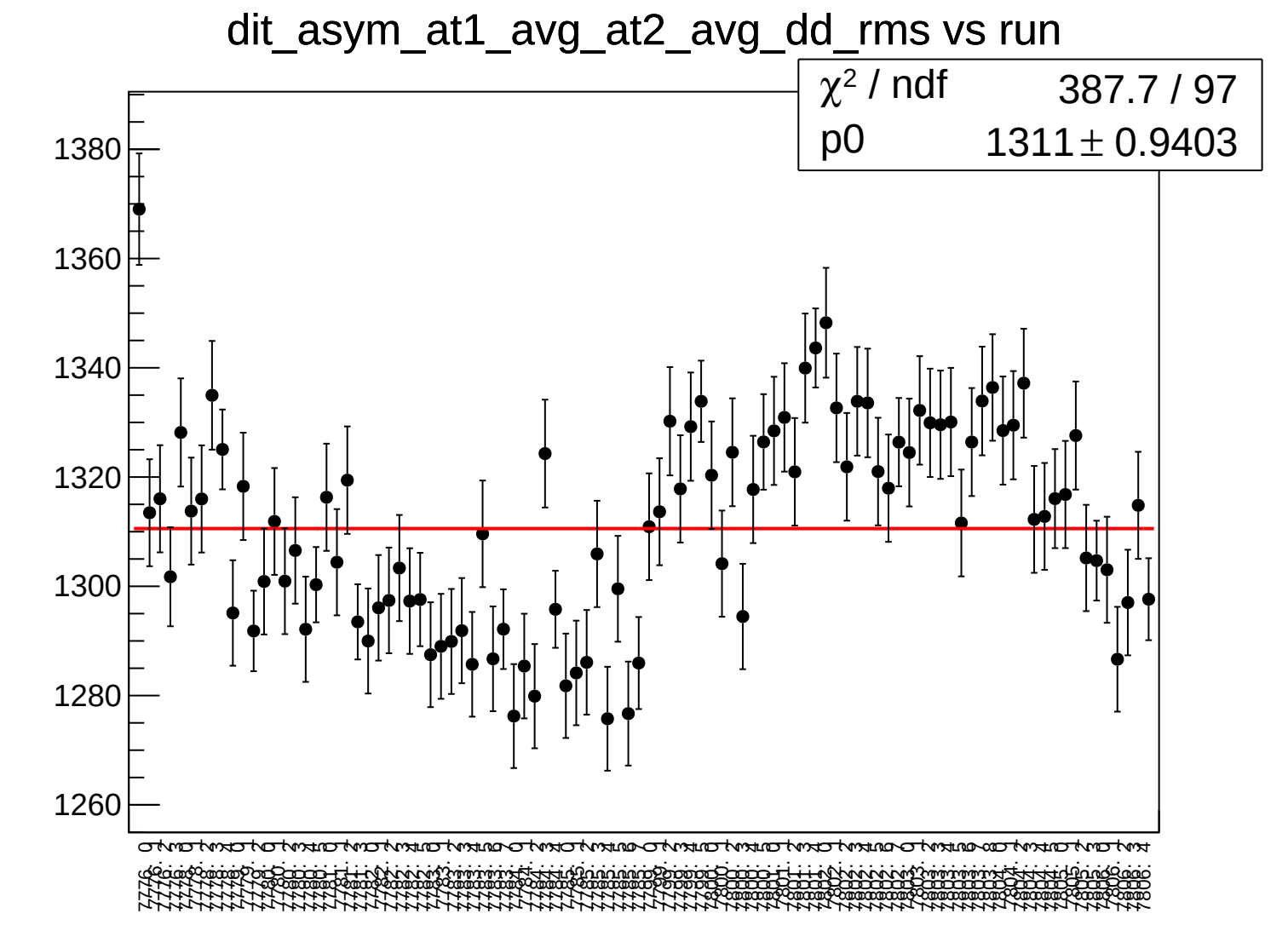

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.3 / 97
p0 −4284 ± 5027
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 516
Std Dev 0
3
2
1
0
−1
−2

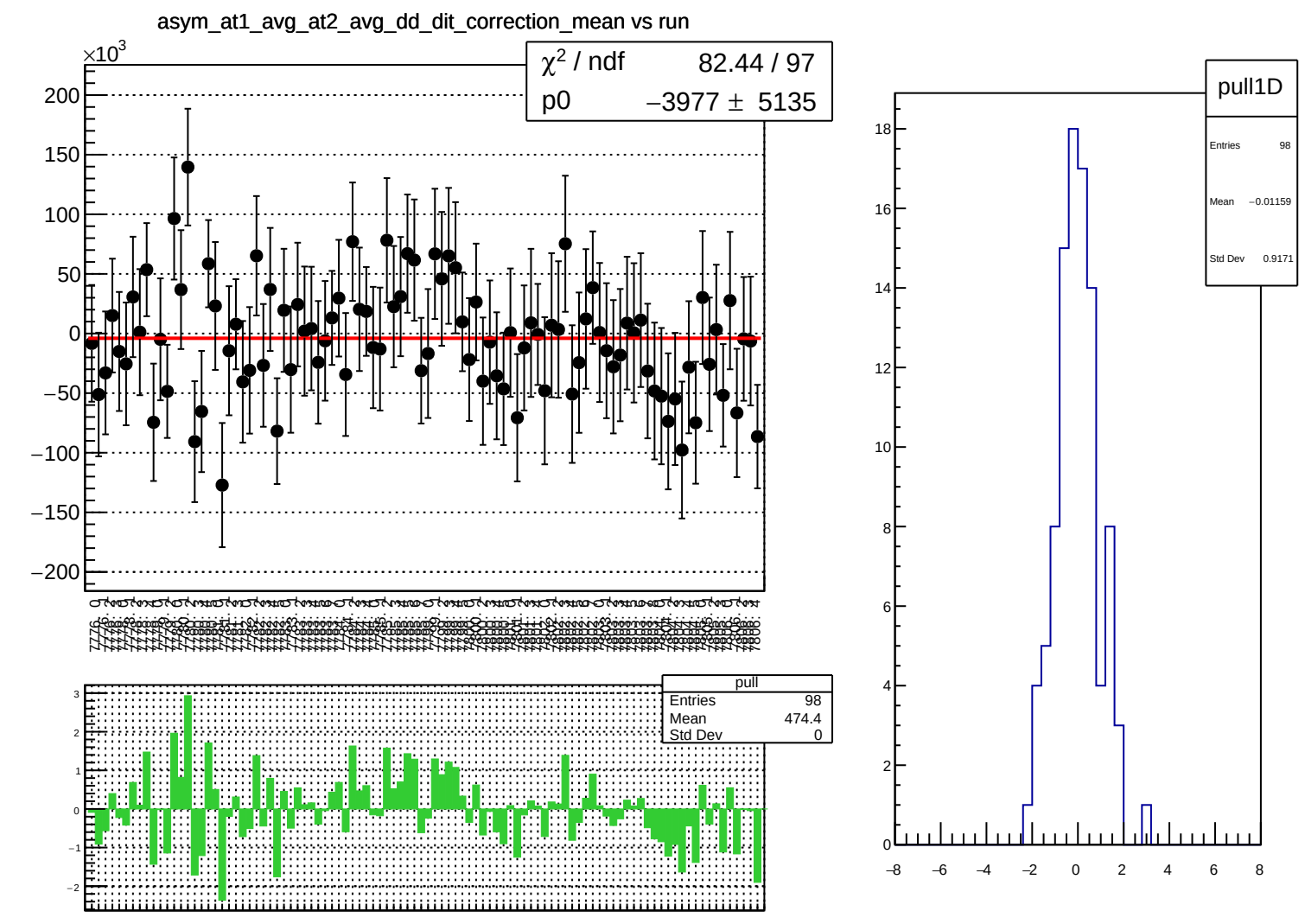

pull1D
Entries 98
Mean −0.01026
Std Dev 0.9164
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

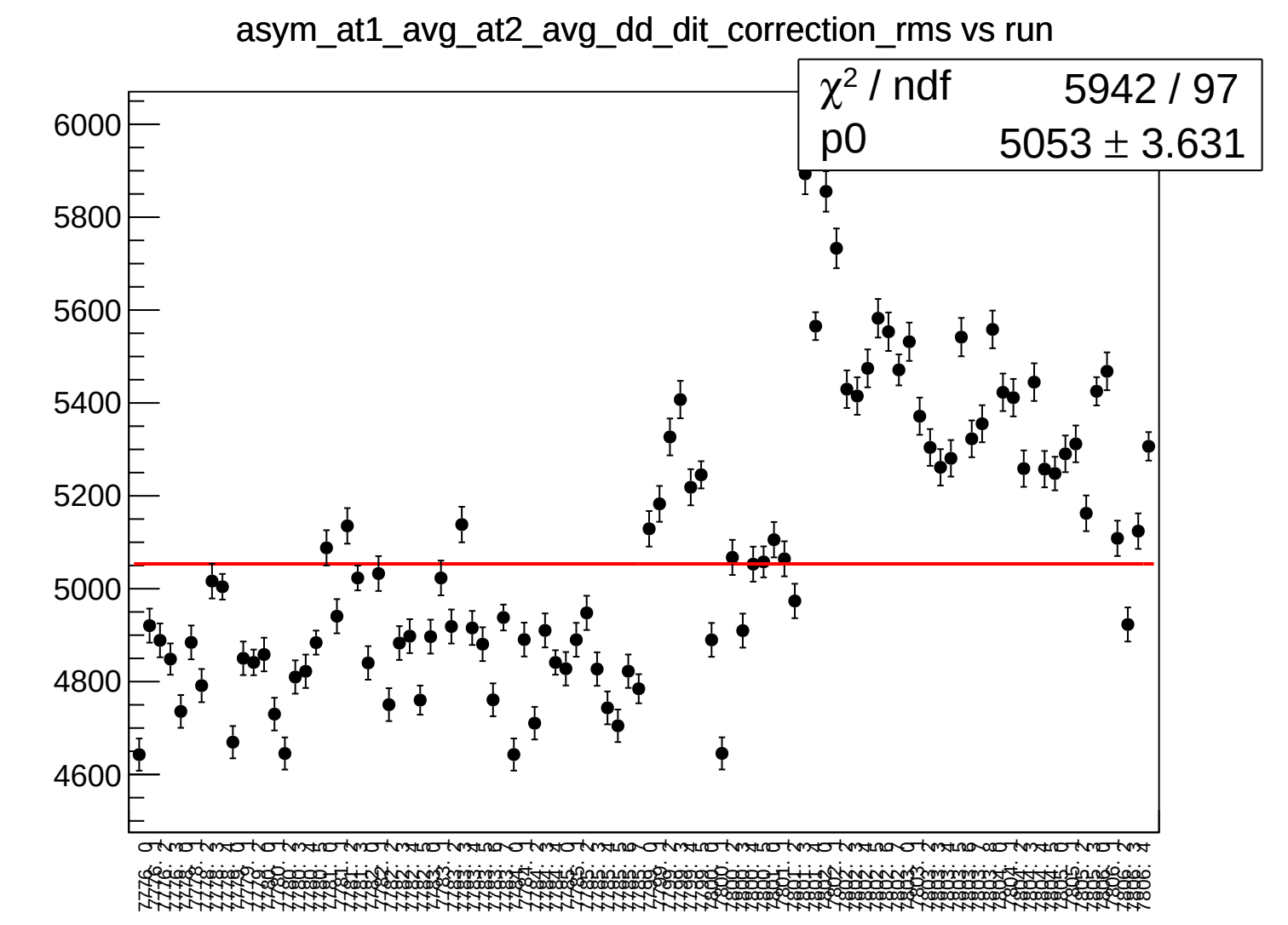

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4417 / 97
p0 4949 ± 3.554
5800
5600
5400
5200
5000
4800
4600
4400

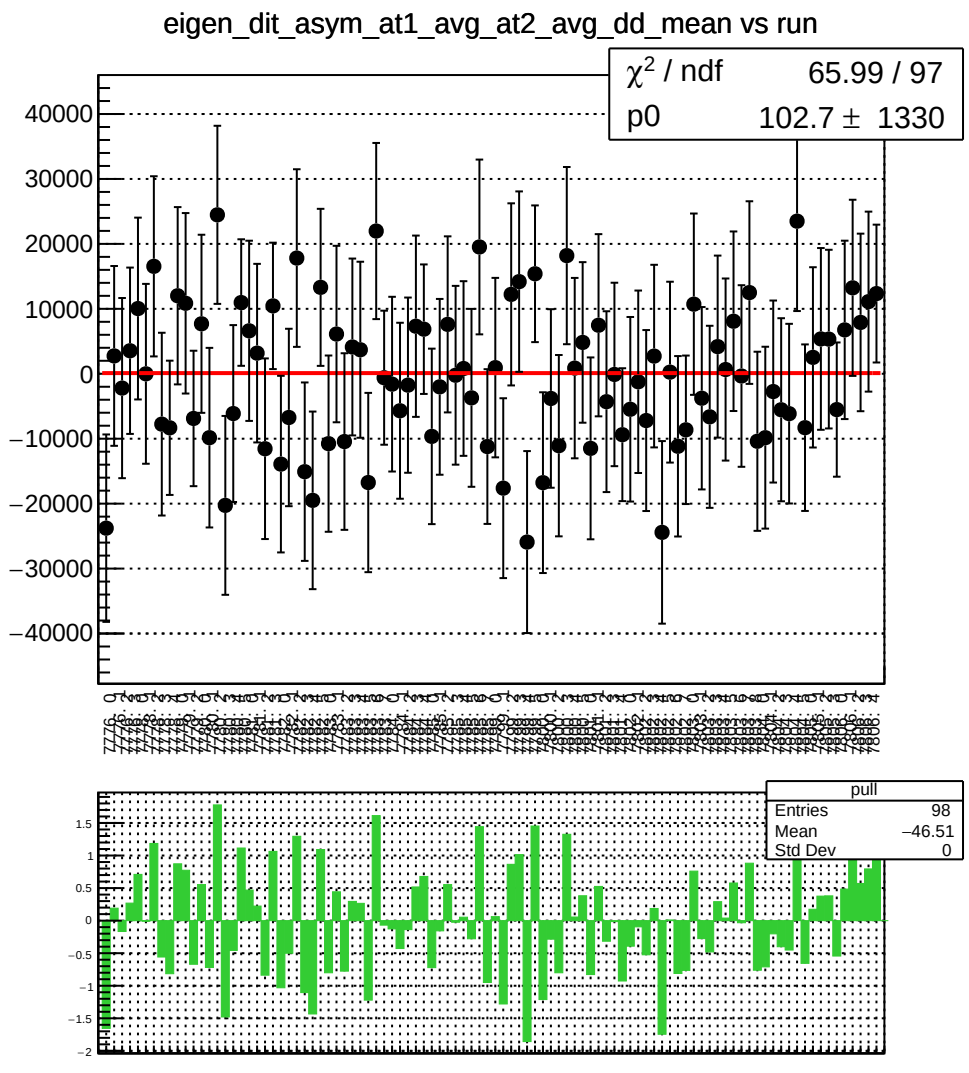

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 65.99 / 97
p0 102.7 ± 1330
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean −46.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

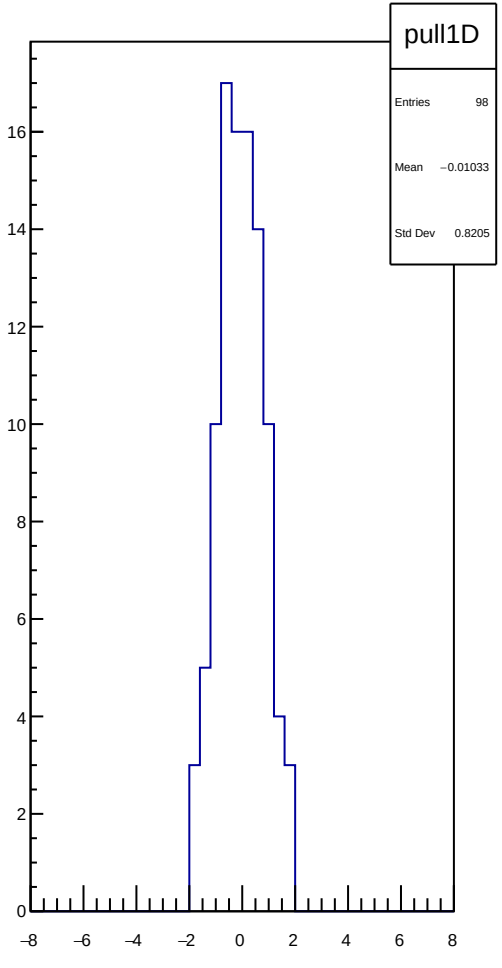

pull1D
Entries 98
Mean −0.01033
Std Dev 0.8205
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

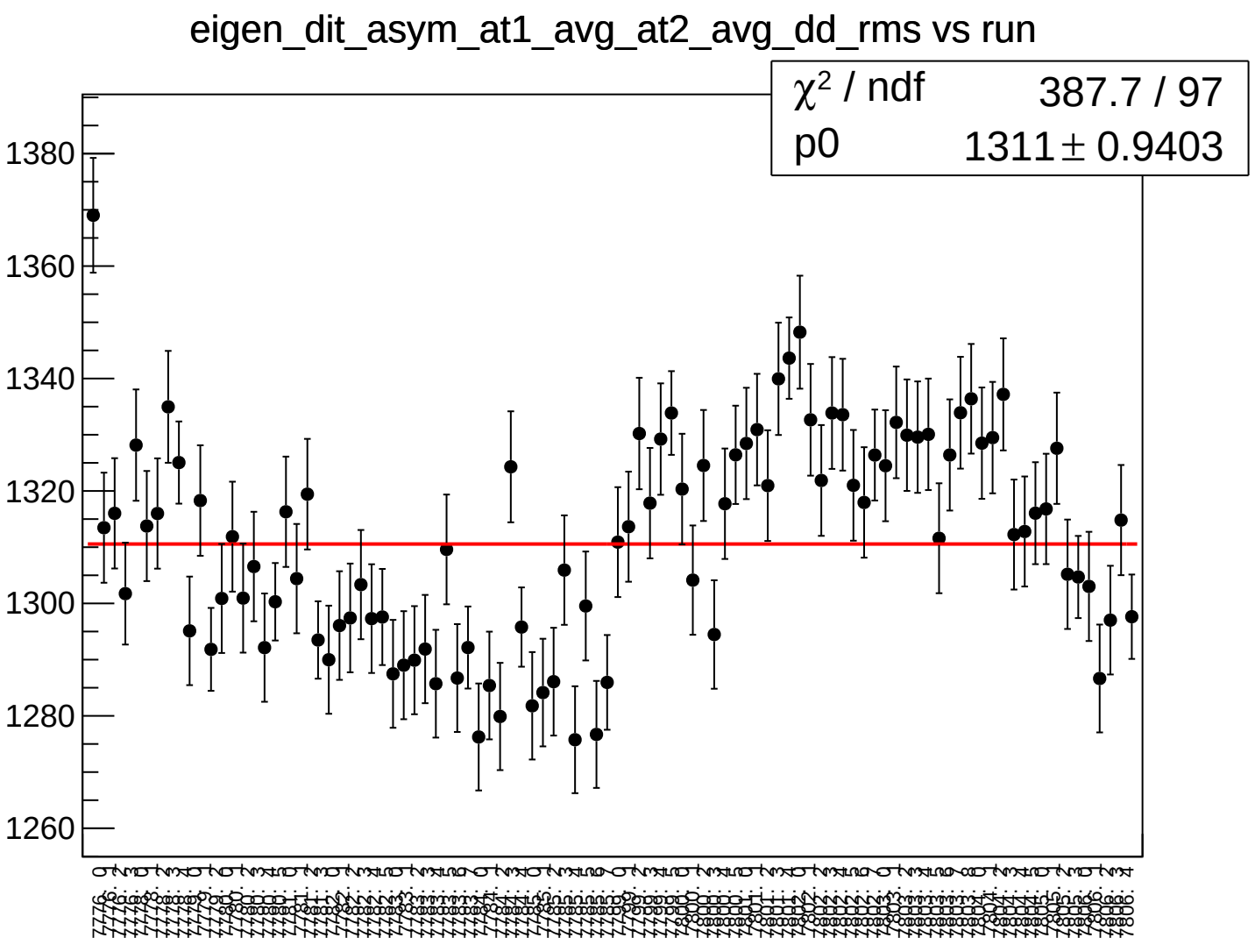

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 387.7 / 97
p0 1311 ± 0.9403
1380
1360
1340
1320
1300
1280
1260

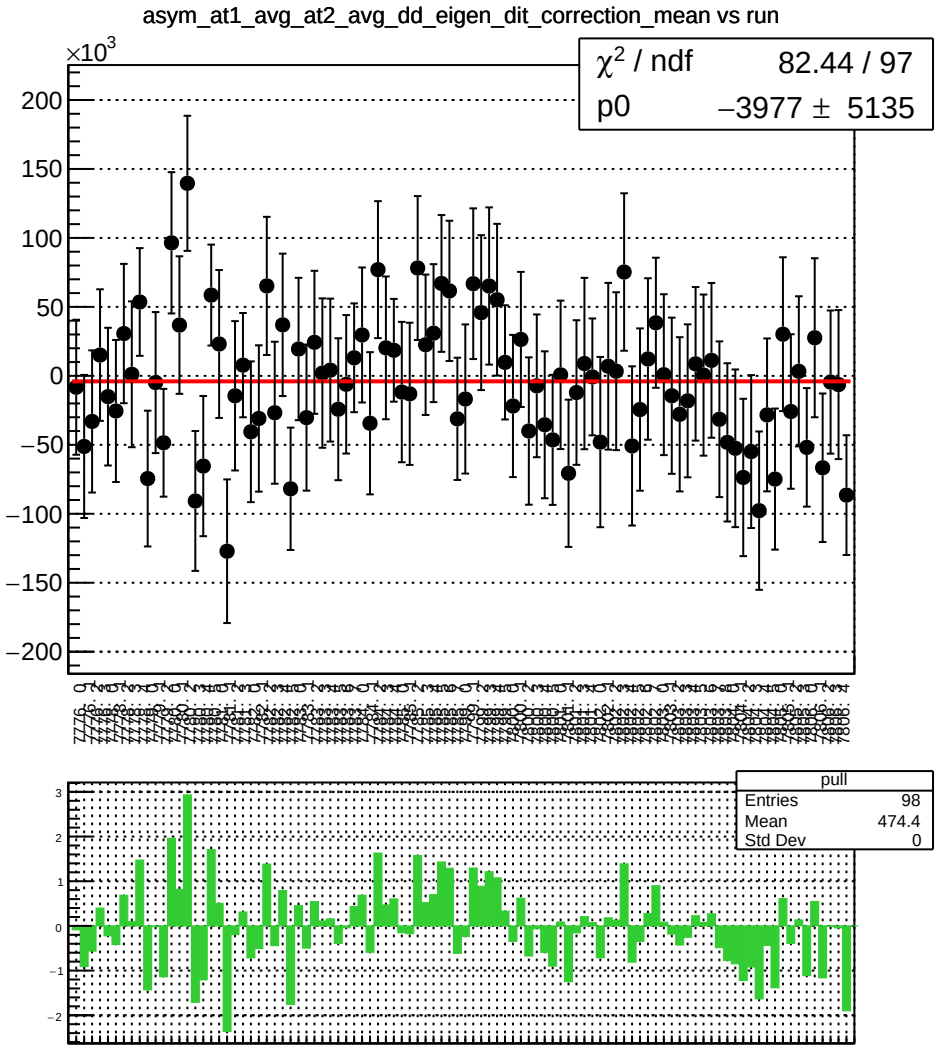

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.44 / 97
p0 −3977 ± 5135
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 474.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01159
Std Dev 0.9171
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

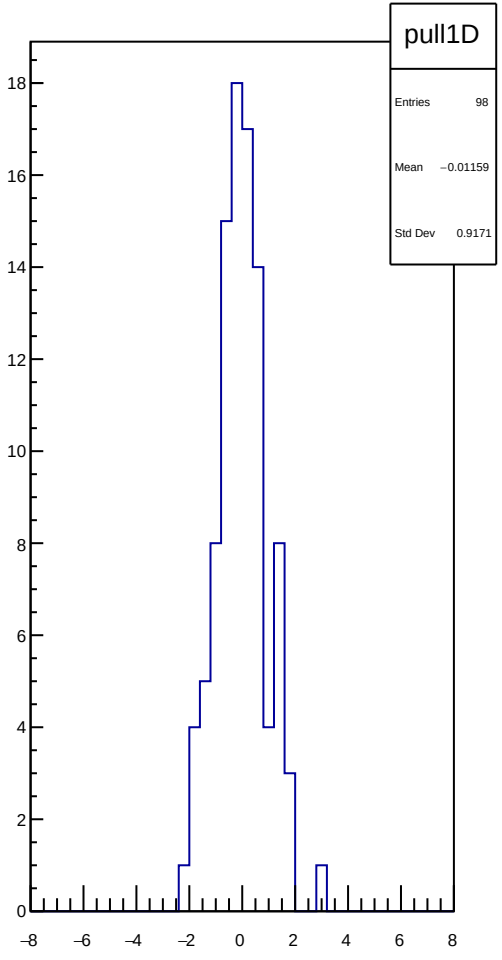

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 5942 / 97
p0 5053 ± 3.631
6000
5800
5600
5400
5200
5000
4800
4600

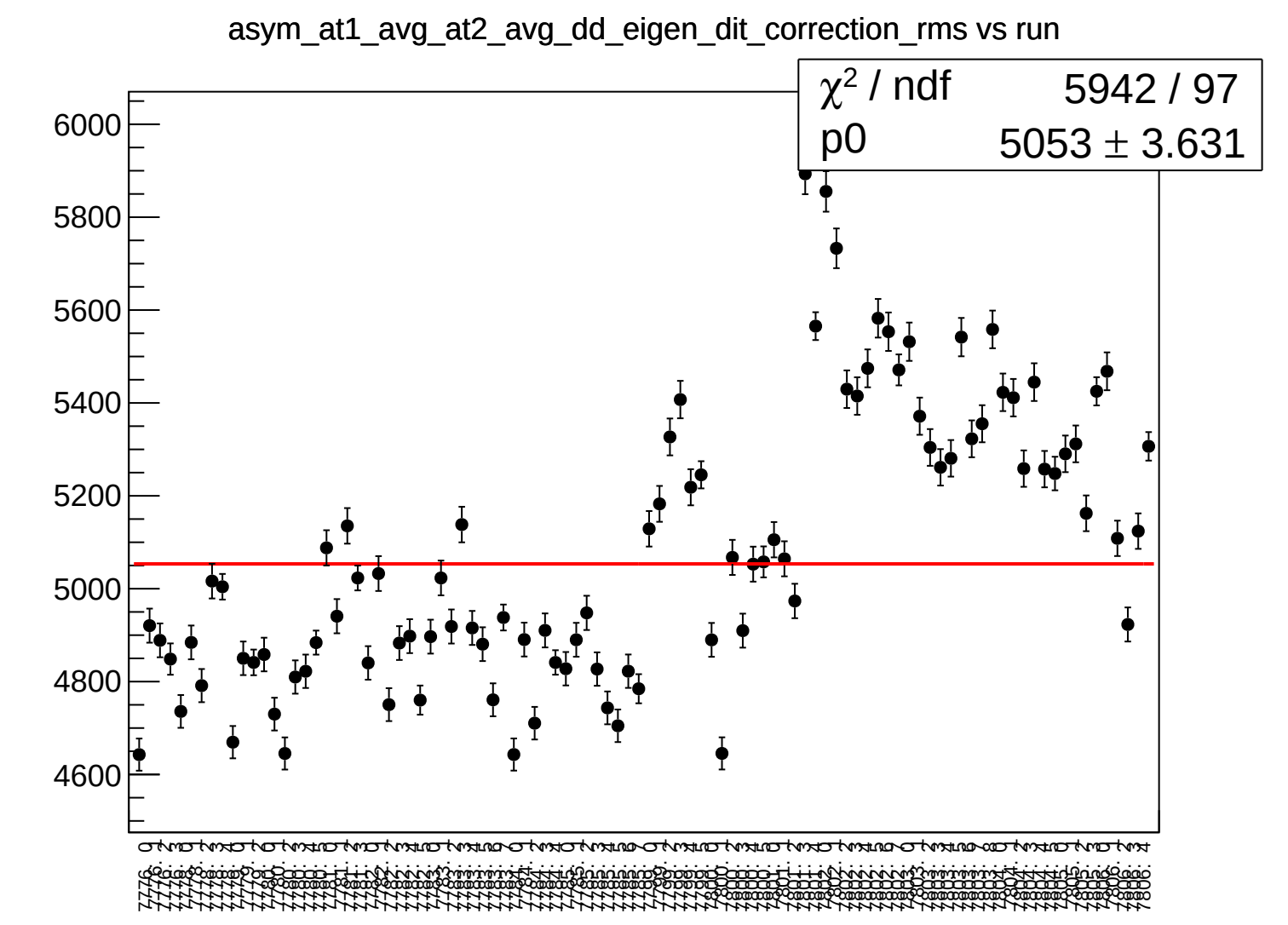

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 65.99 / 97
p0 102.7 ± 1330
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean −46.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

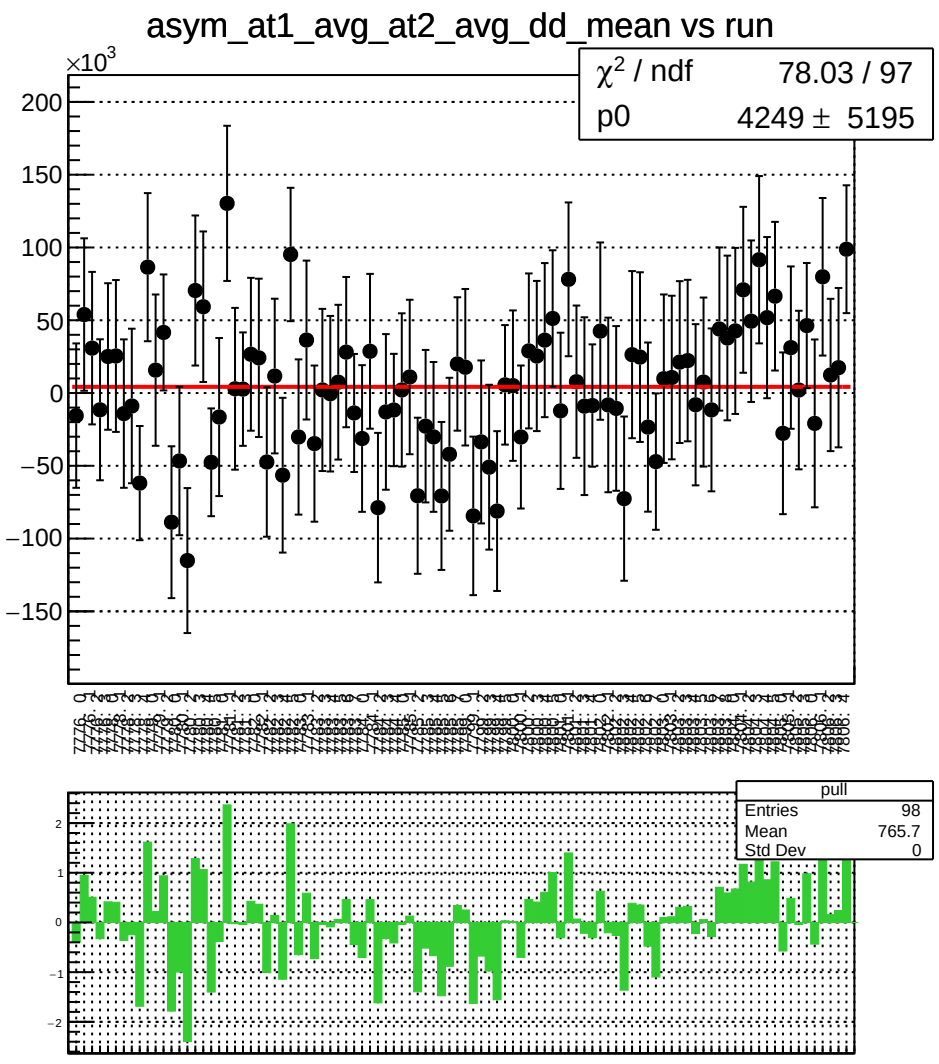

pull1D
Entries 98
Mean −0.01033
Std Dev 0.8205
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

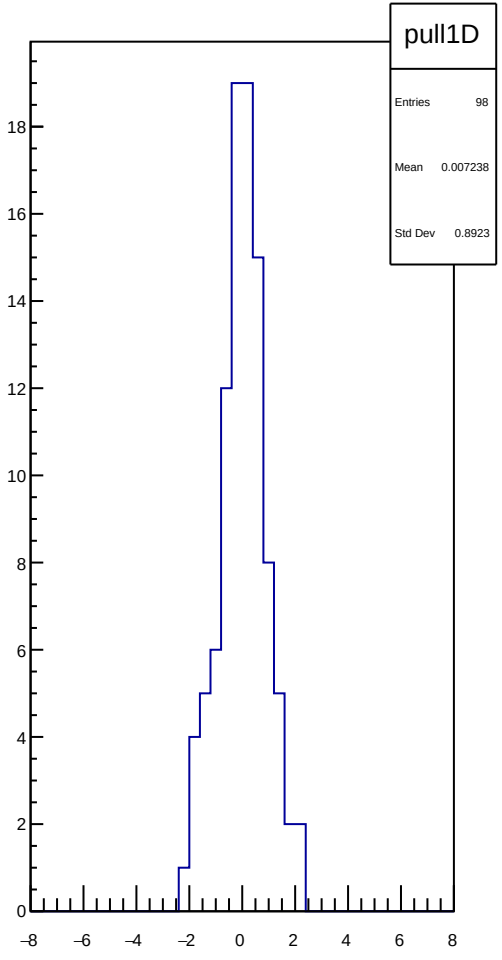

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 387.7 / 97
p0 1311 ± 0.9403
1380
1360
1340
1320
1300
1280
1260

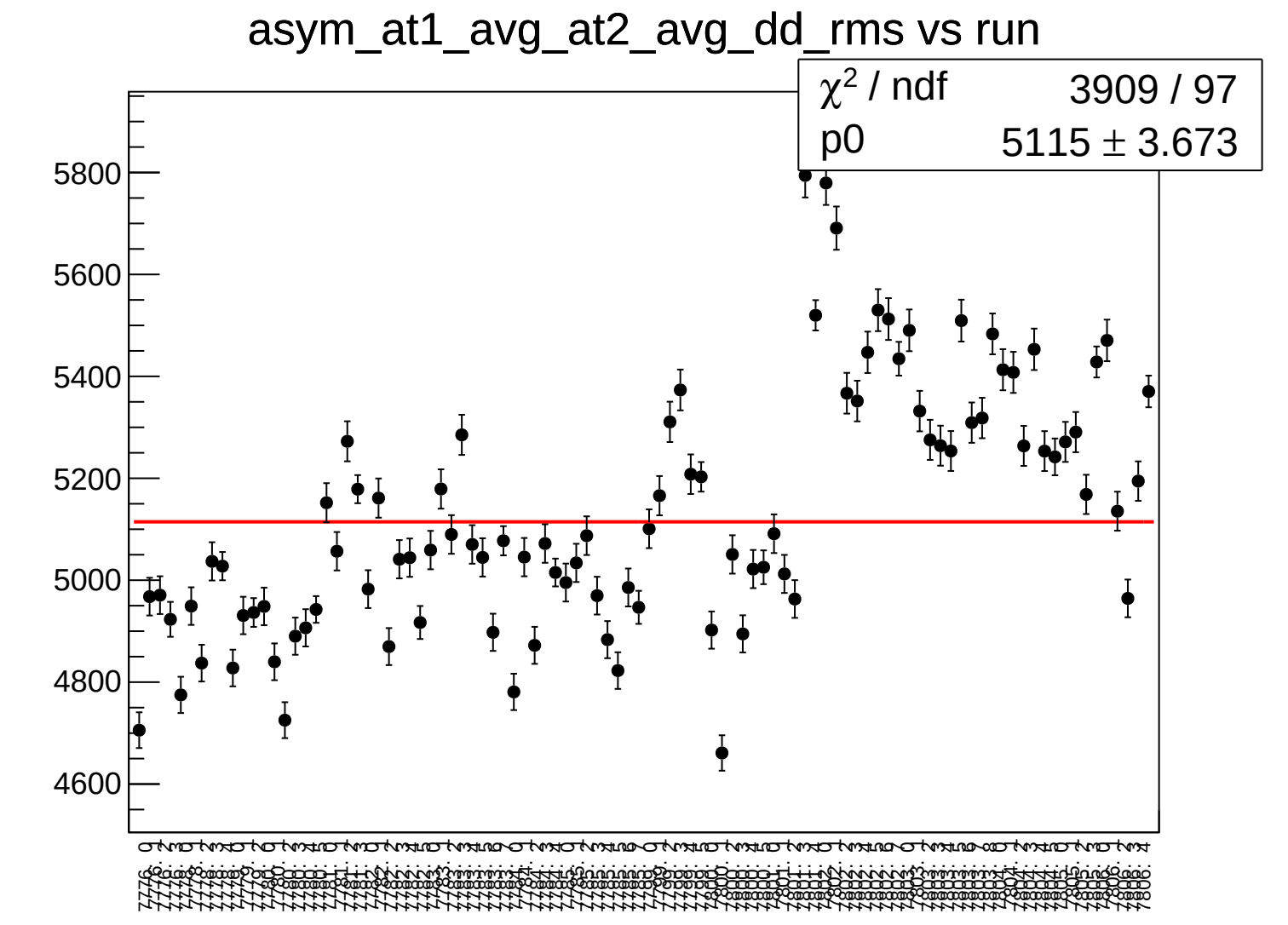

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.44 / 97
p0 −3977 ± 5135
pull
Entries 98
Mean 474.4
Std Dev 0

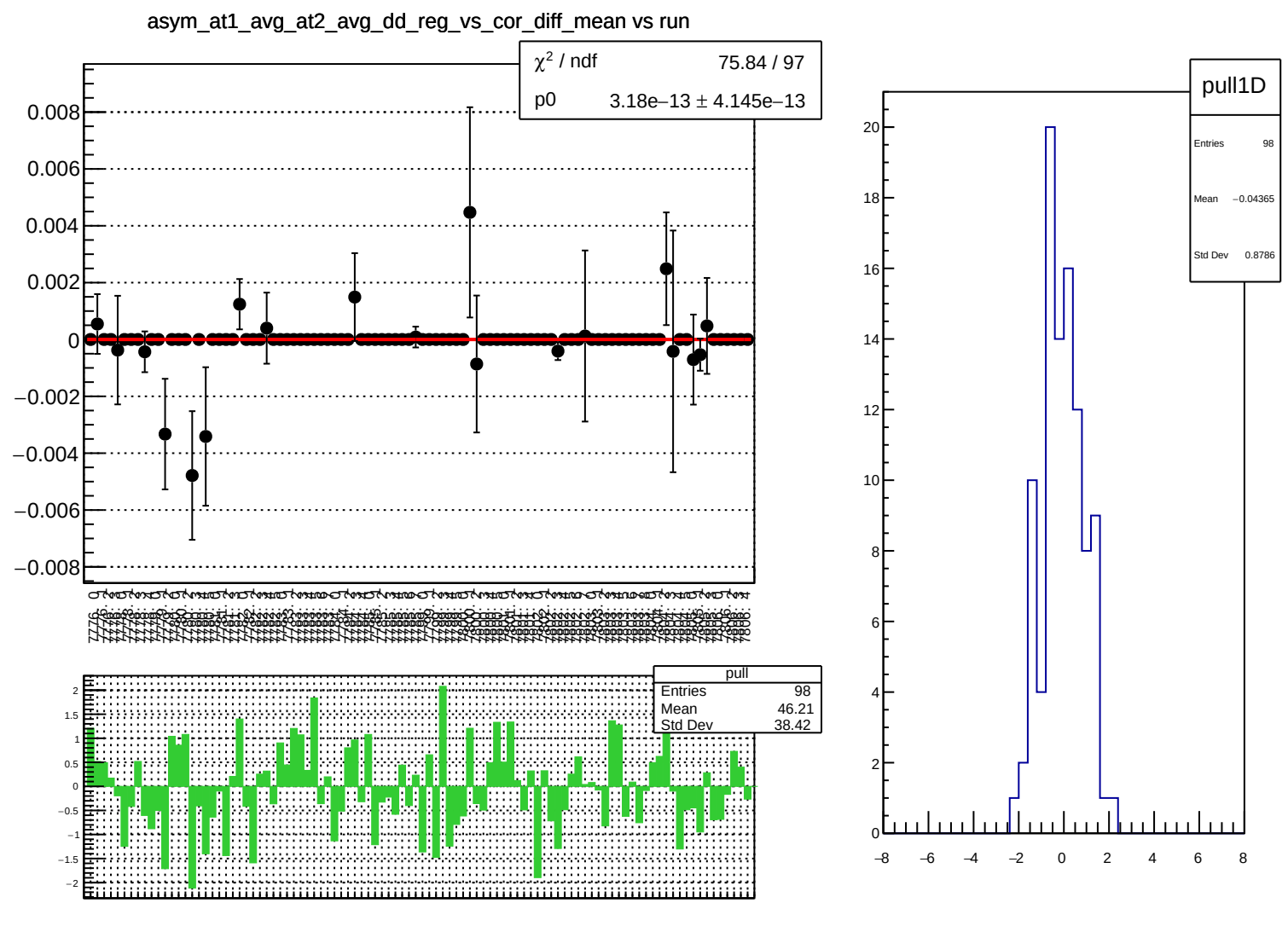

pull1D
Entries 98
Mean −0.01159
Std Dev 0.9171

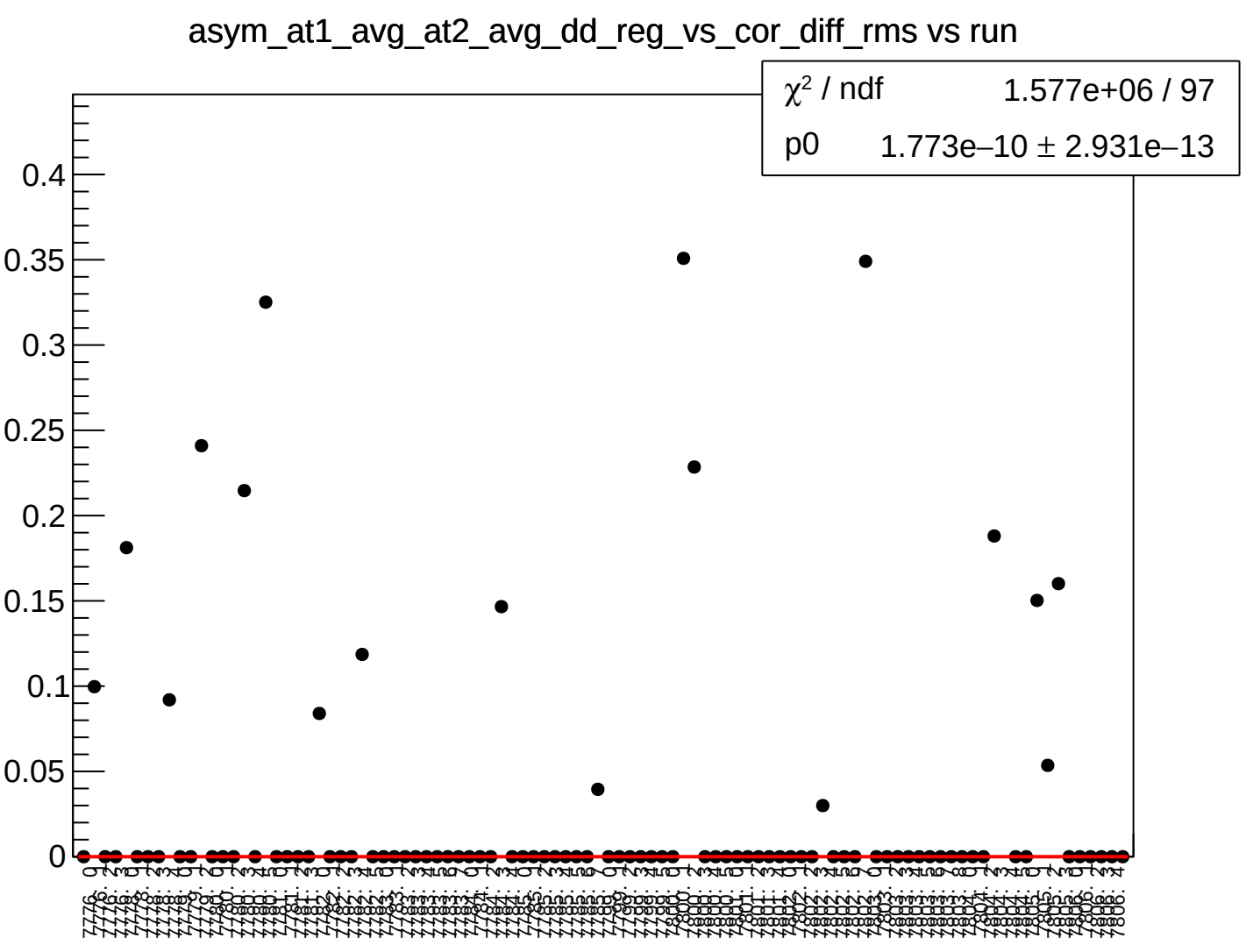

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5942 / 97
p0 5053 ± 3.631
6000
5800
5600
5400
5200
5000
4800
4600

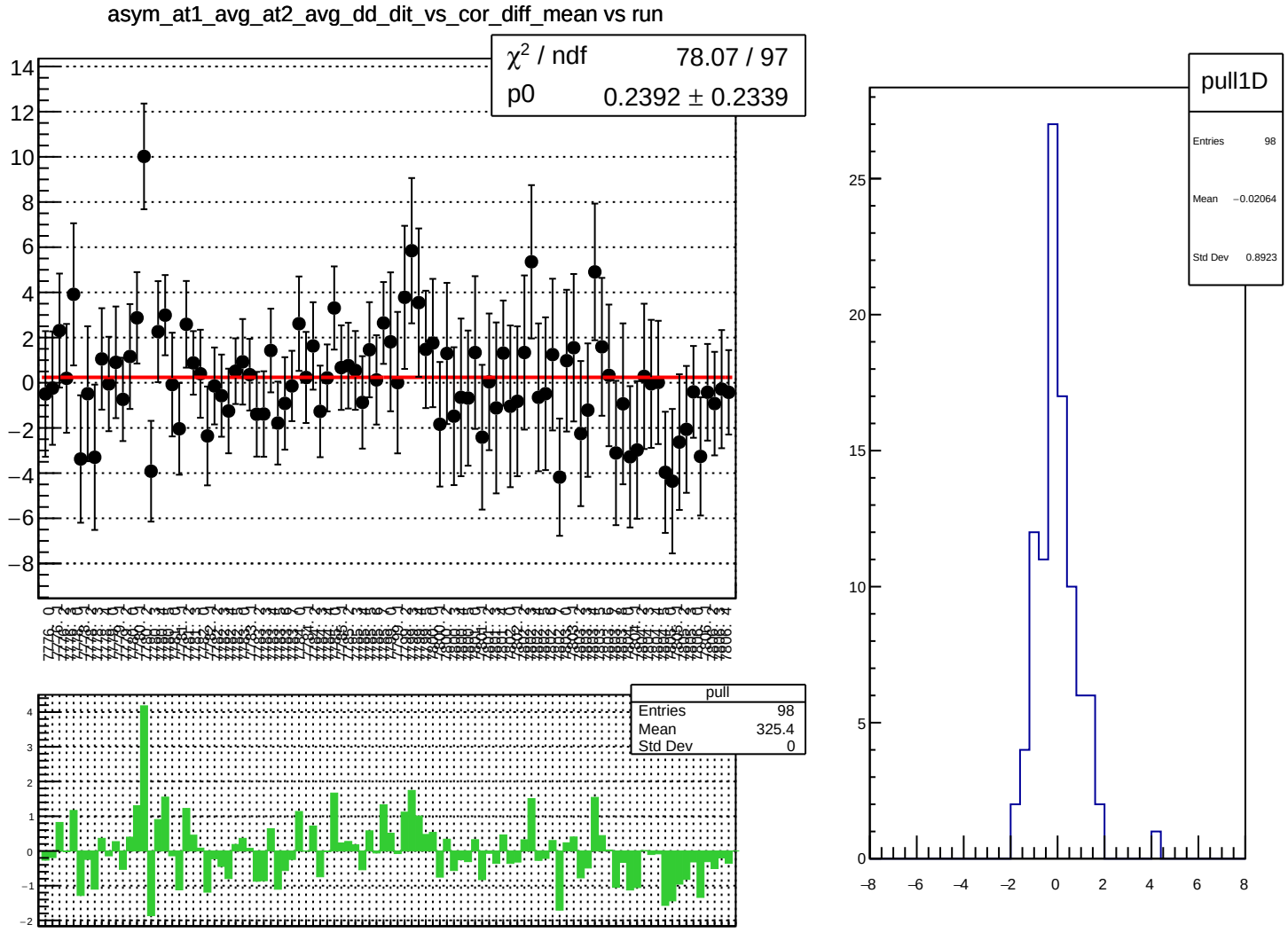

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 78.03 / 97
p0 4249 ± 5195
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 765.7
Std Dev 0
2
1
0
−1
−2

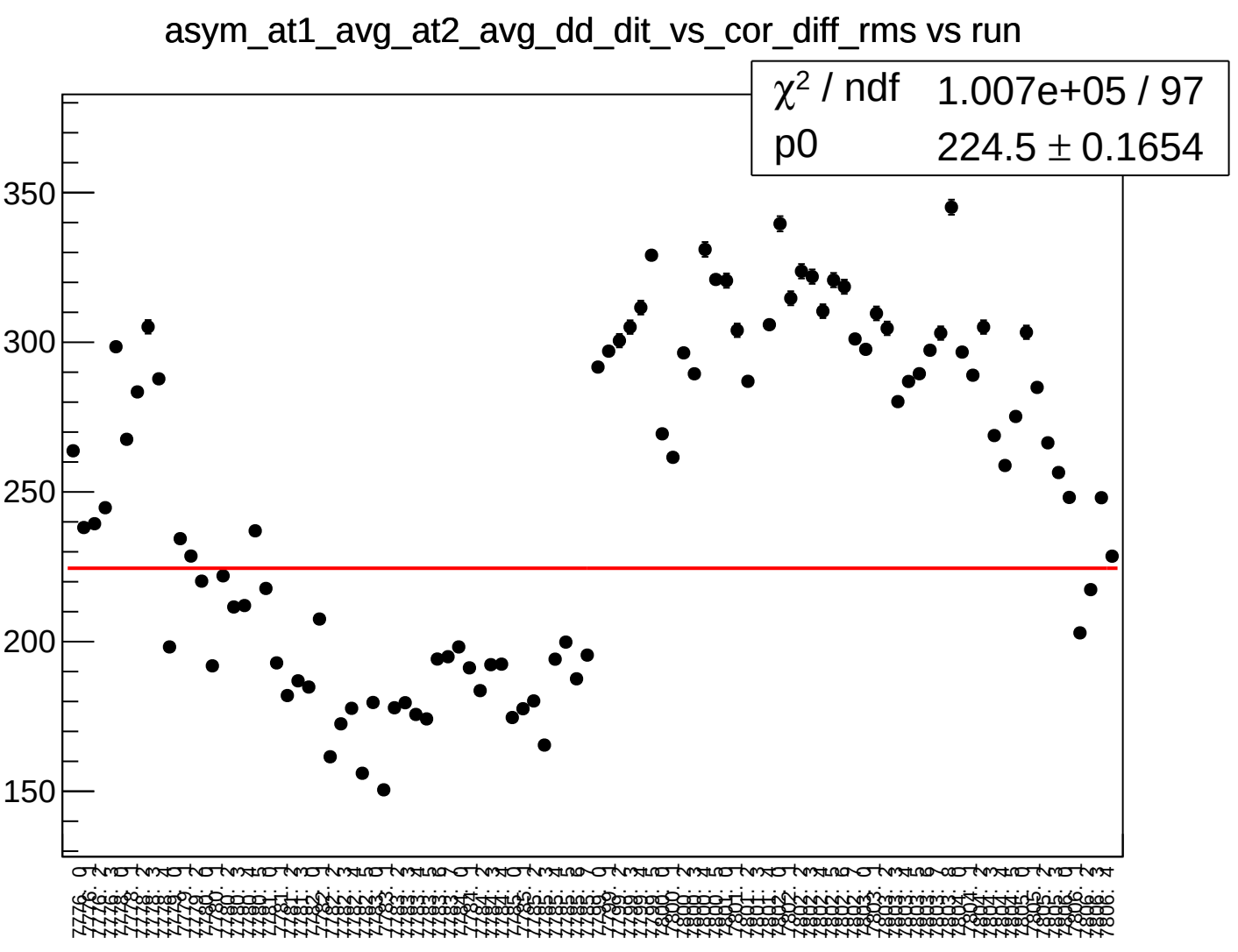

pull1D
Entries 98
Mean 0.007238
Std Dev 0.8923
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

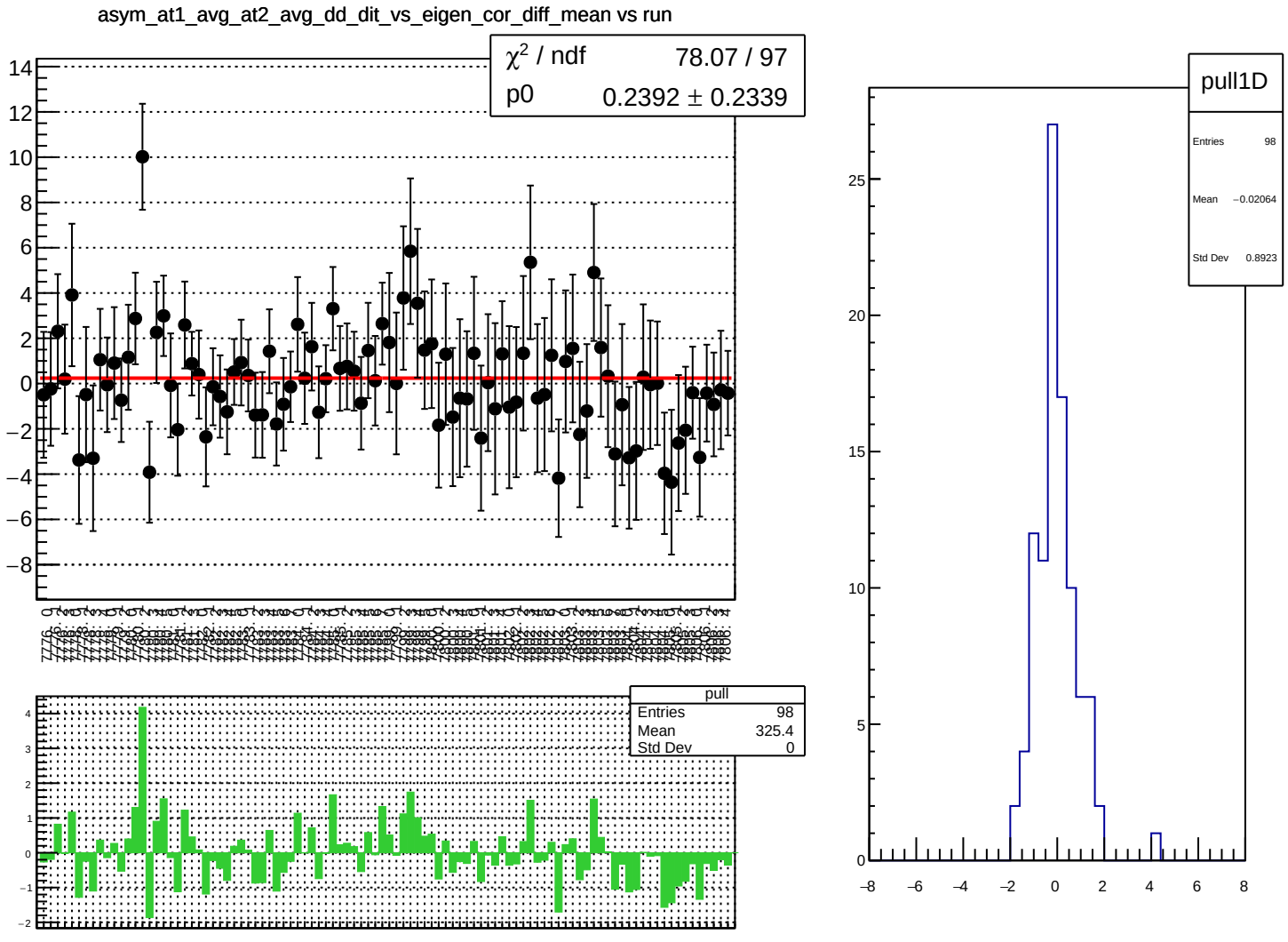

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3909 / 97
p0 5115 ± 3.673
5800
5600
5400
5200
5000
4800
4600

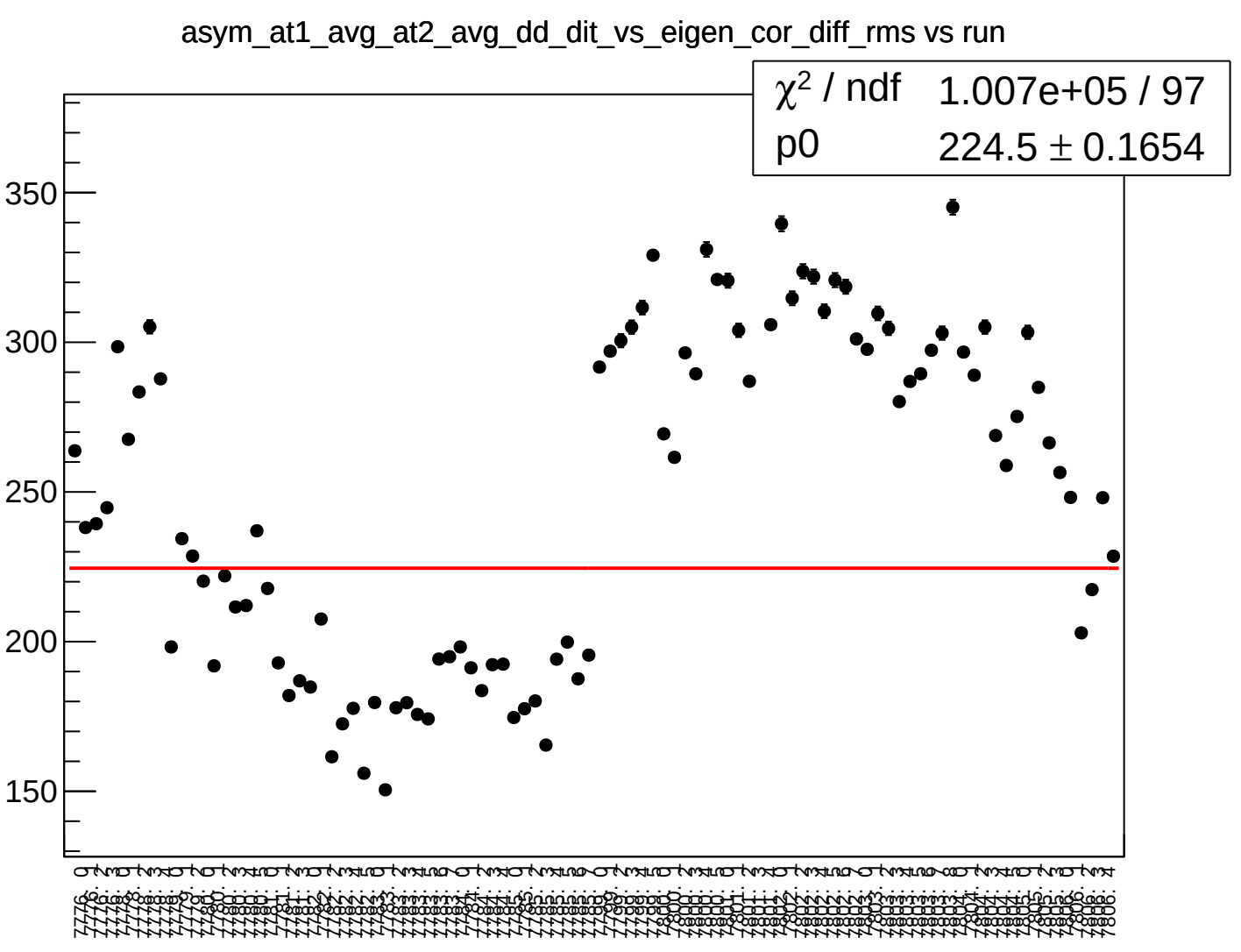

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.84 / 97
p0 3.18e−13 ± 4.145e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 98
Mean 46.21
Std Dev 38.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.04365
Std Dev 0.8786
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

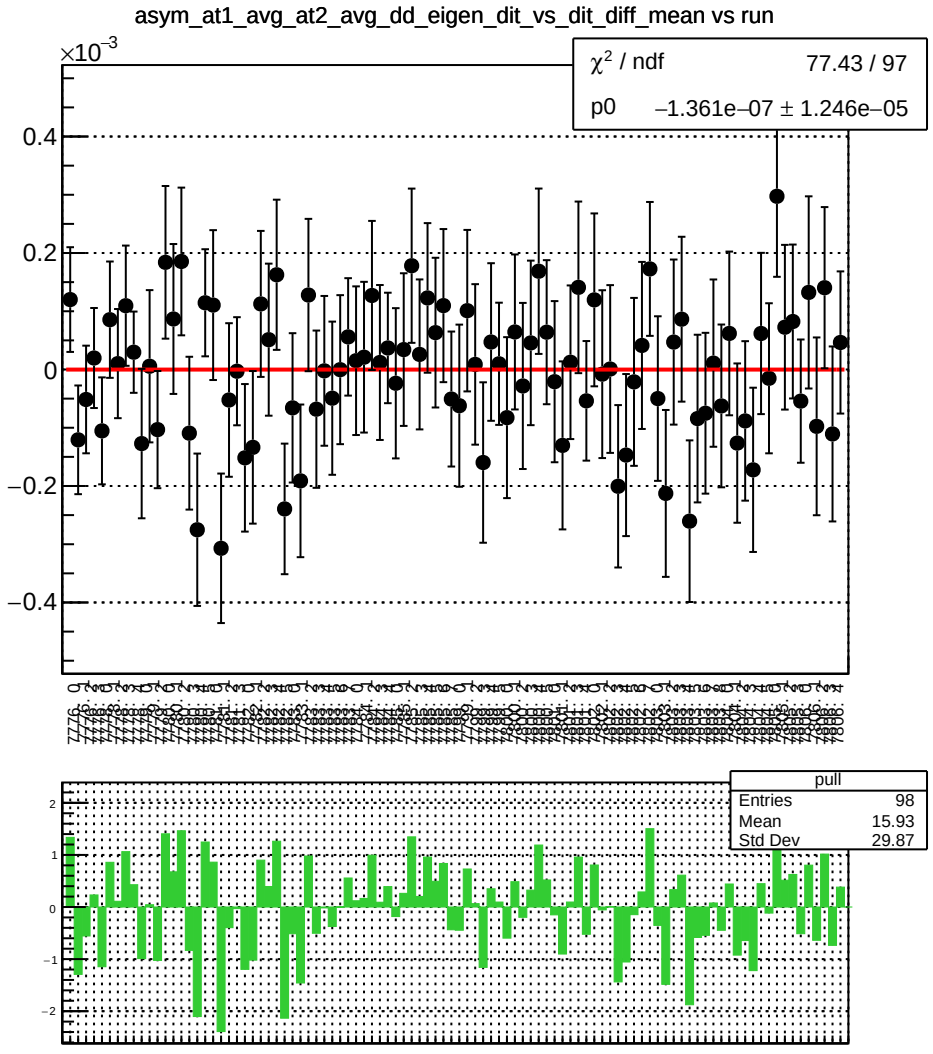

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.577e+06 / 97
p0 1.773e−10 ± 2.931e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

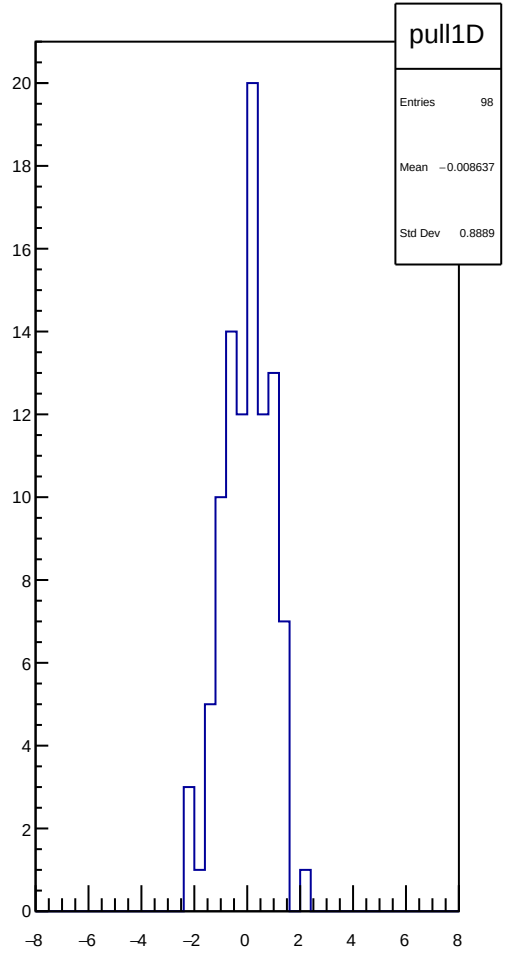

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.07 / 97
p0 0.2392 ± 0.2339
pull
Entries 98
Mean 325.4
Std Dev 0
pull1D
Entries 98
Mean −0.02064
Std Dev 0.8923

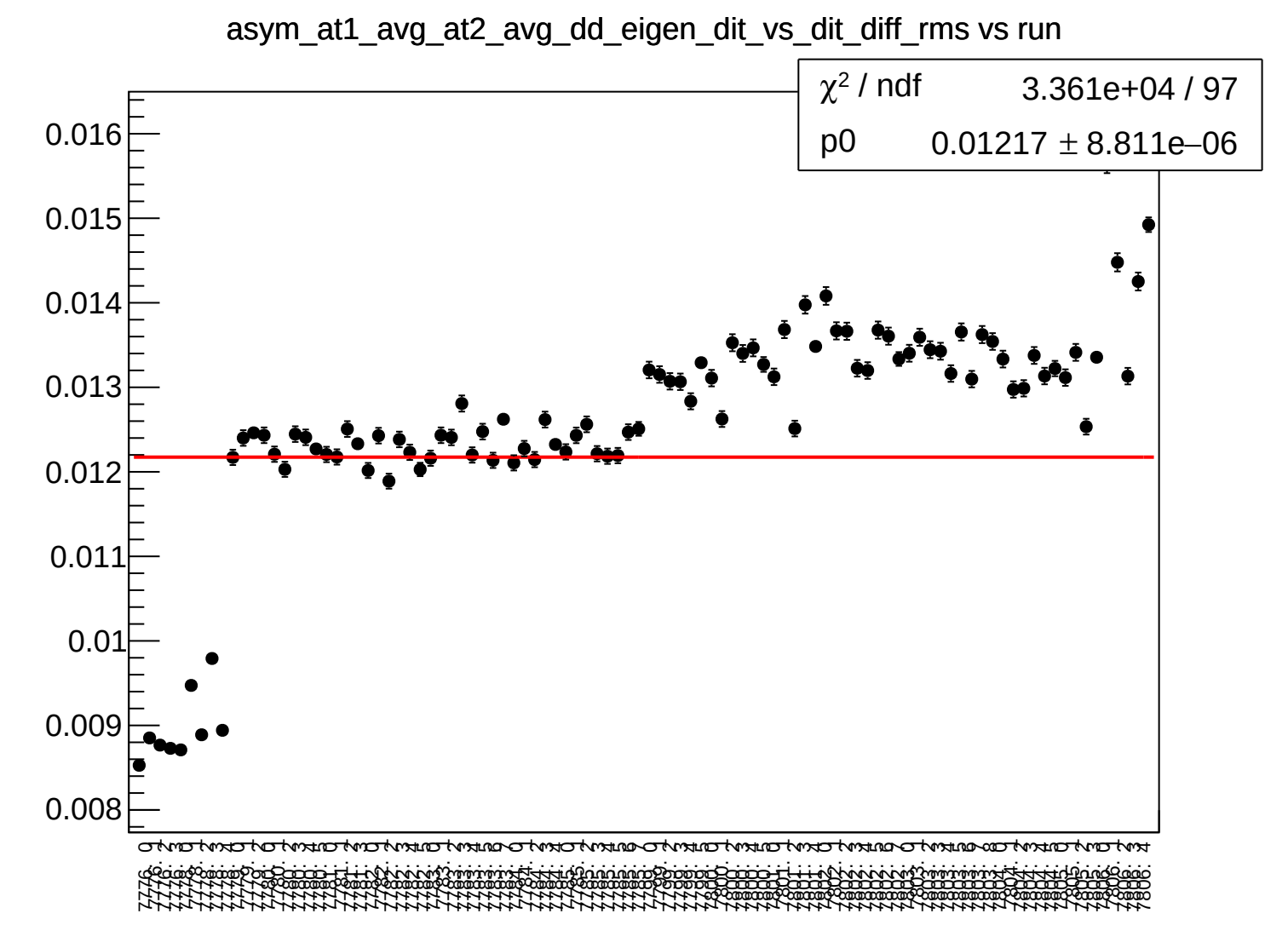

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 97
p0 224.5 ± 0.1654
350
300
250
200
150

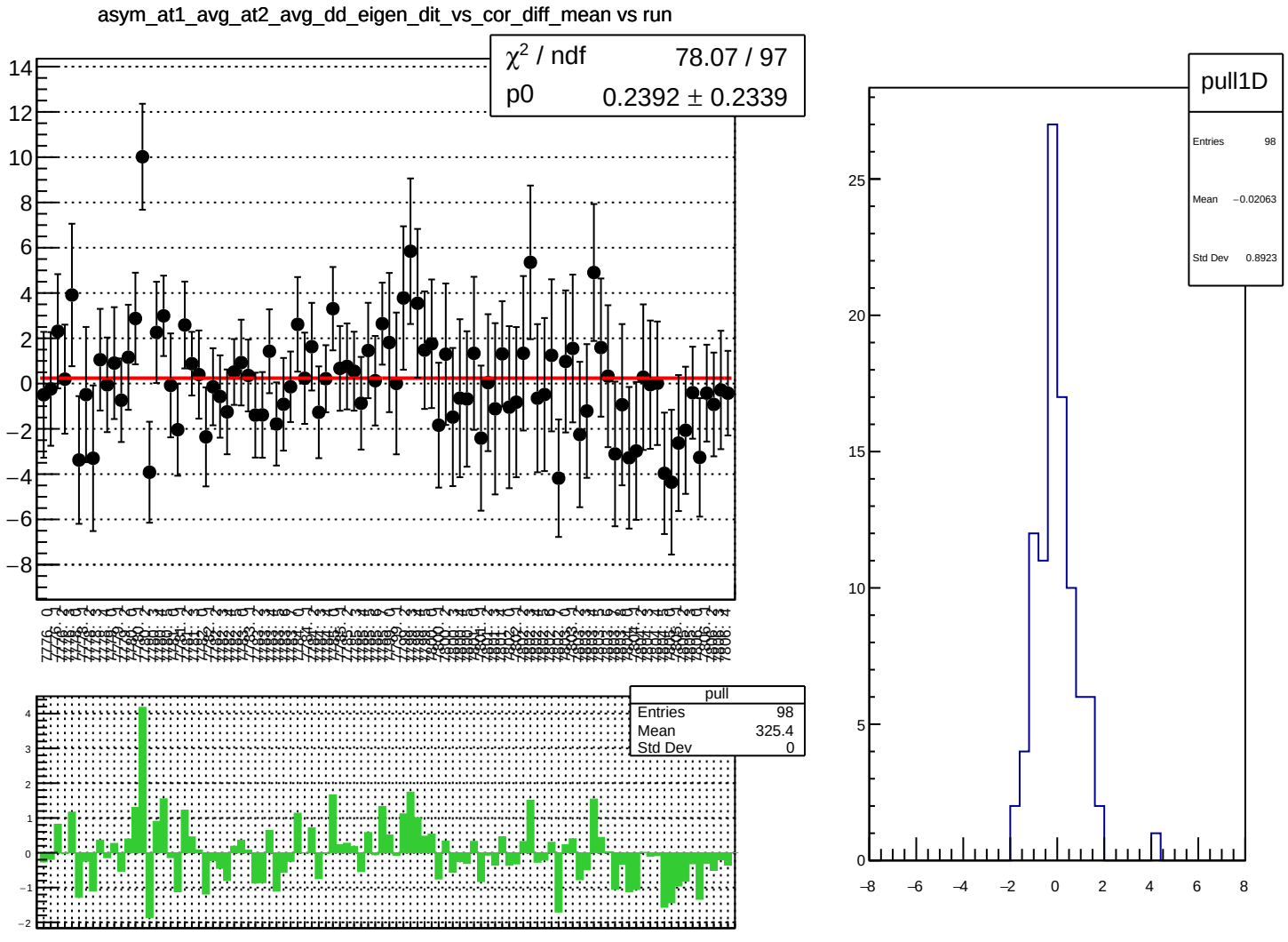

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.07 / 97
p0 0.2392 ± 0.2339
pull
Entries 98
Mean 325.4
Std Dev 0
pull1D
Entries 98
Mean −0.02064
Std Dev 0.8923

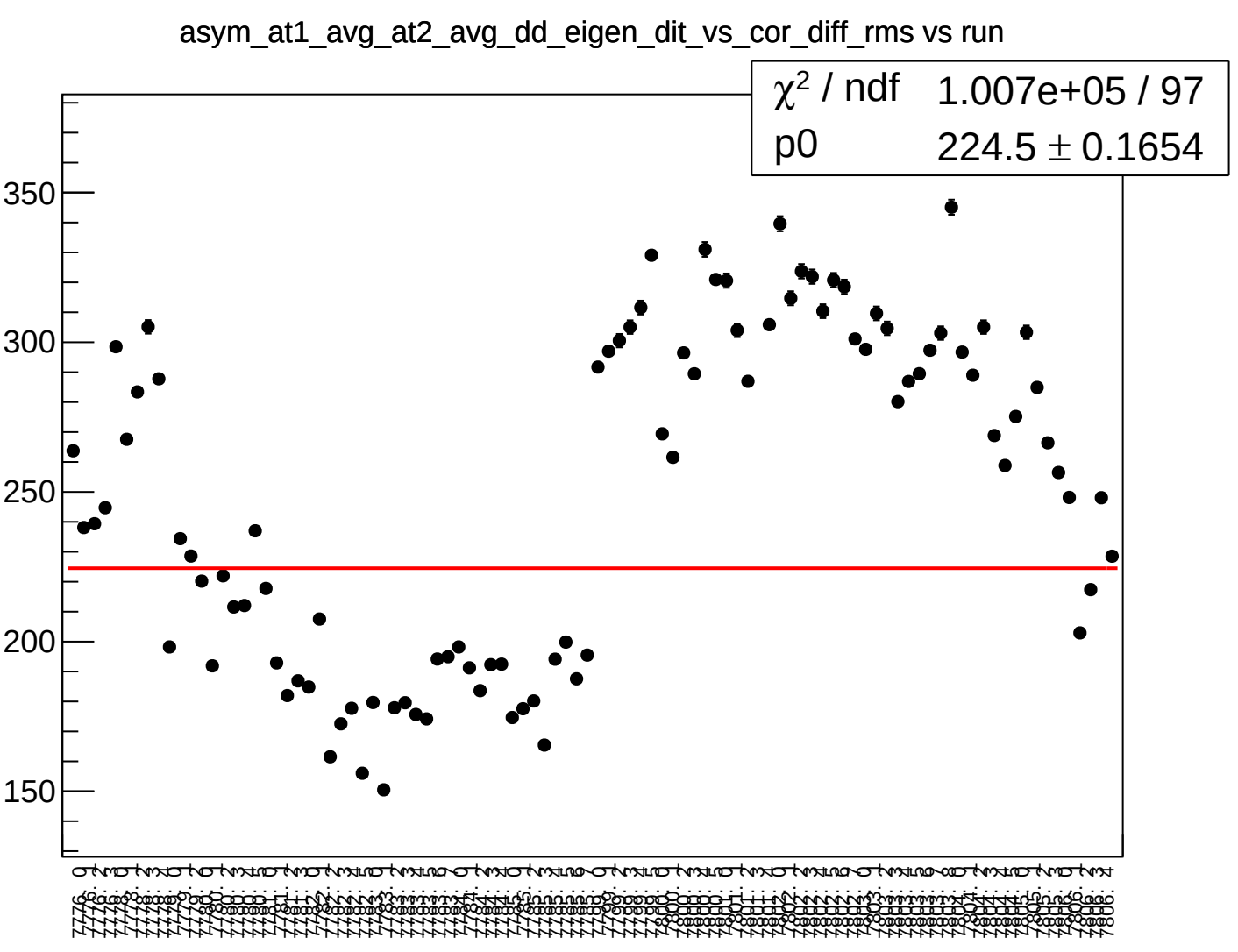

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 97
p0 224.5 ± 0.1654
350
300
250
200
150

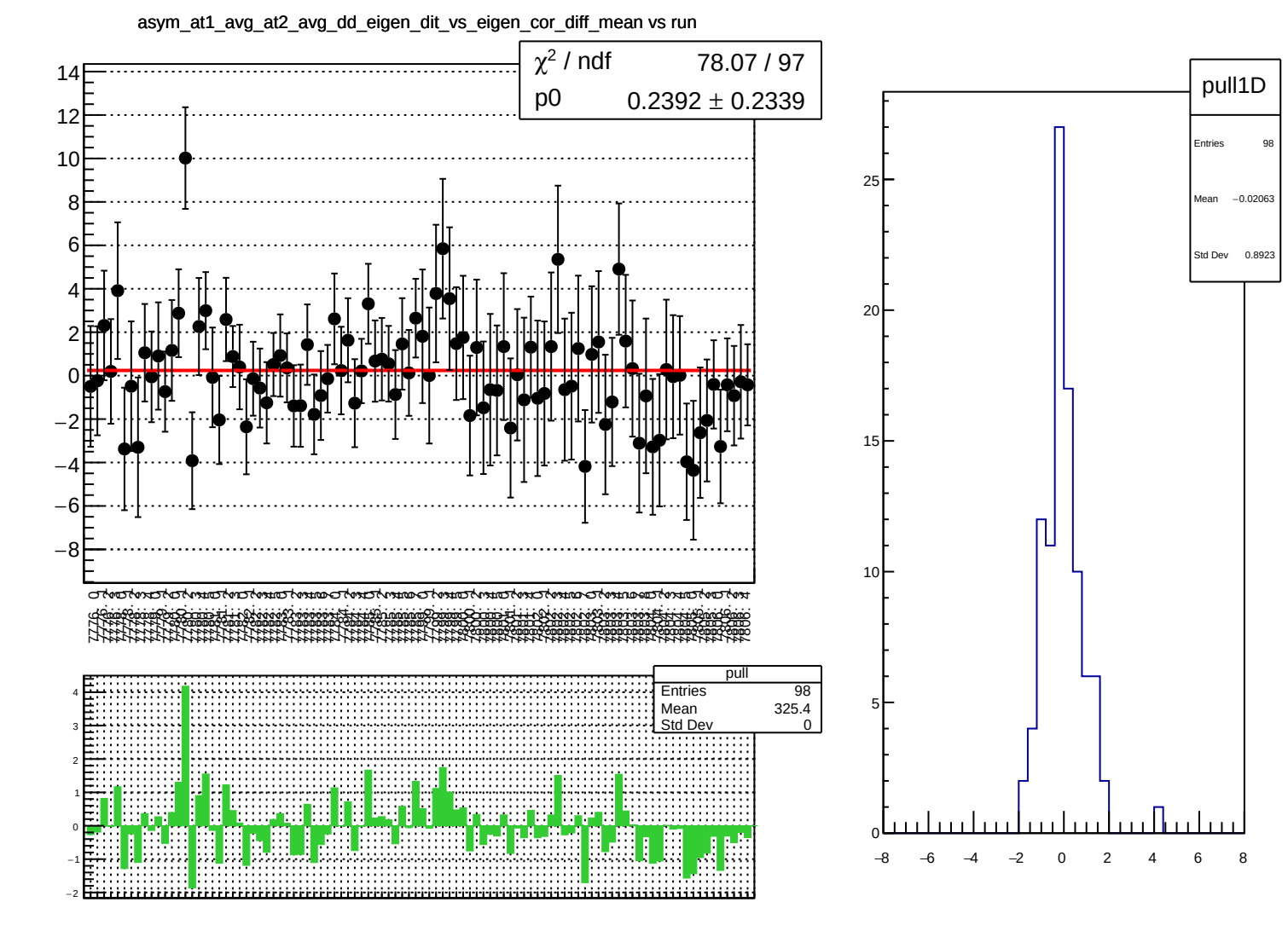

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.43 / 97
p0 −1.361e−07 ± 1.246e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 98
Mean 15.93
Std Dev 29.87
2
1
0
−1
−2

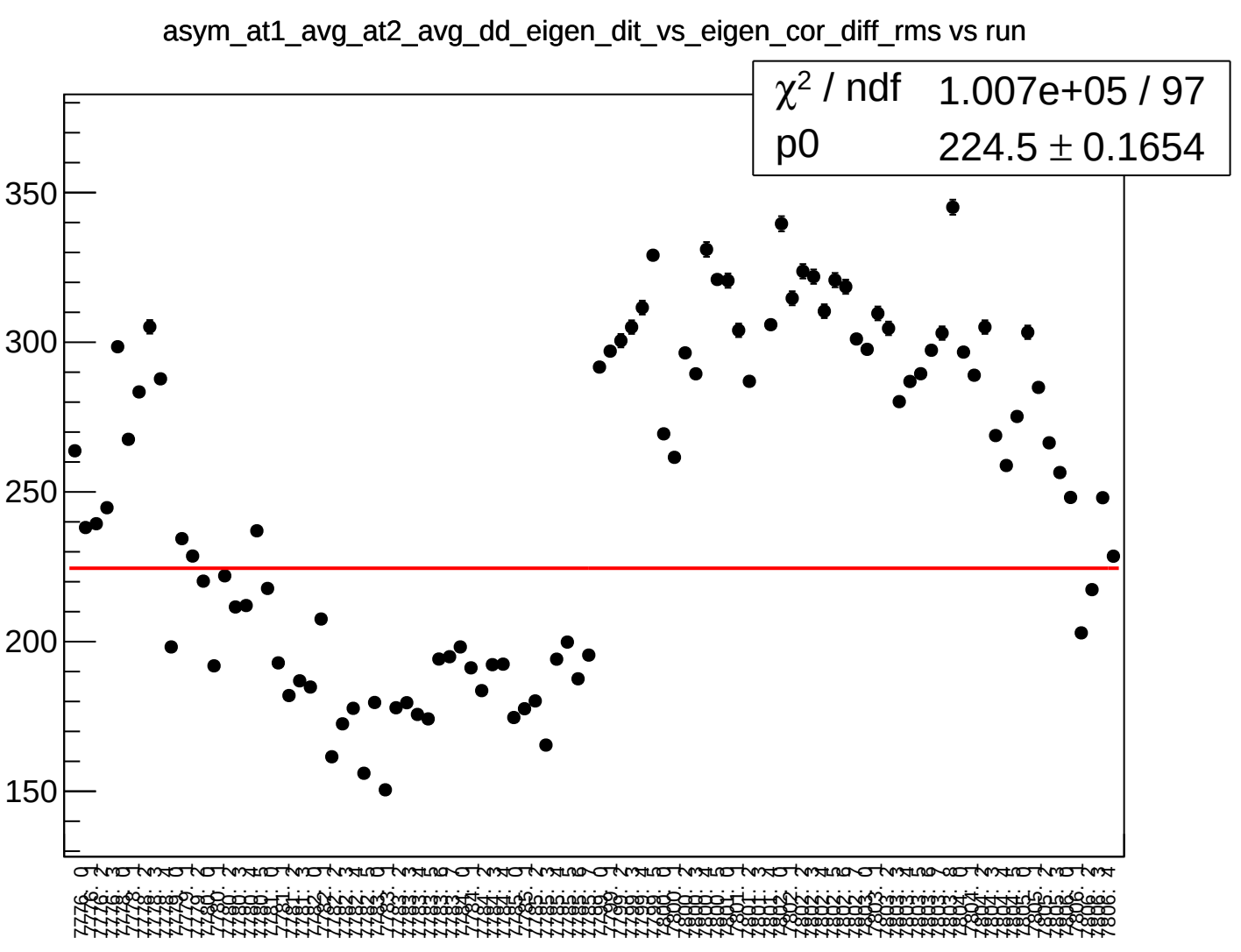

pull1D
Entries 98
Mean −0.008637
Std Dev 0.8889
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

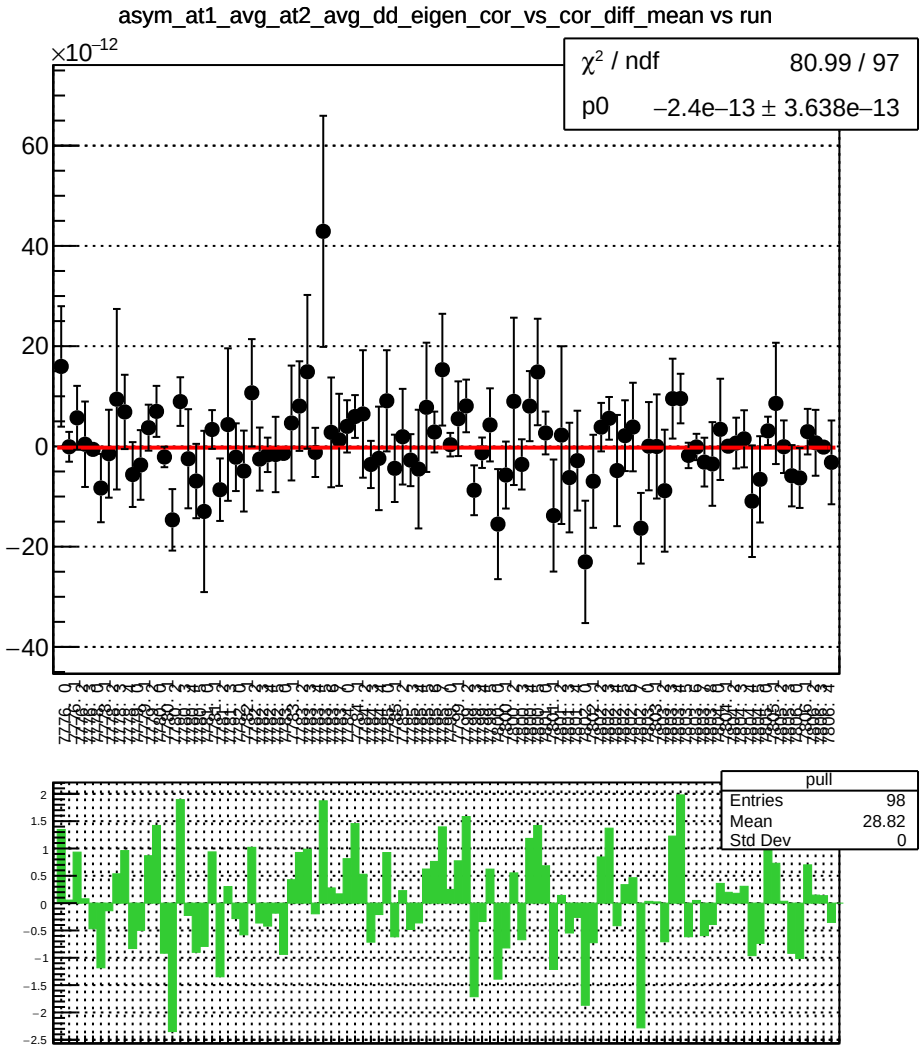

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.361e+04 / 97
p0 0.01217 ± 8.811e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

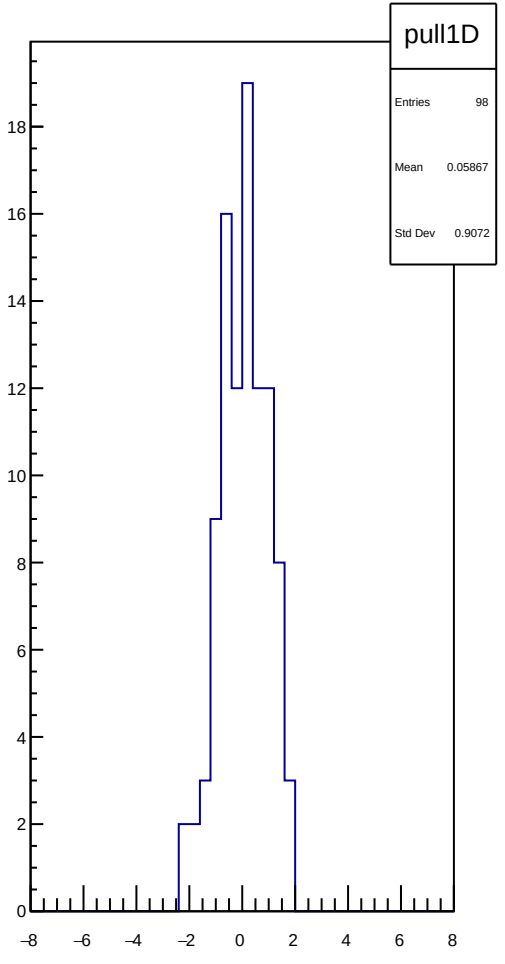

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.07 / 97
p0 0.2392 ± 0.2339
pull
Entries 98
Mean 325.4
Std Dev 0
pull1D
Entries 98
Mean −0.02063
Std Dev 0.8923

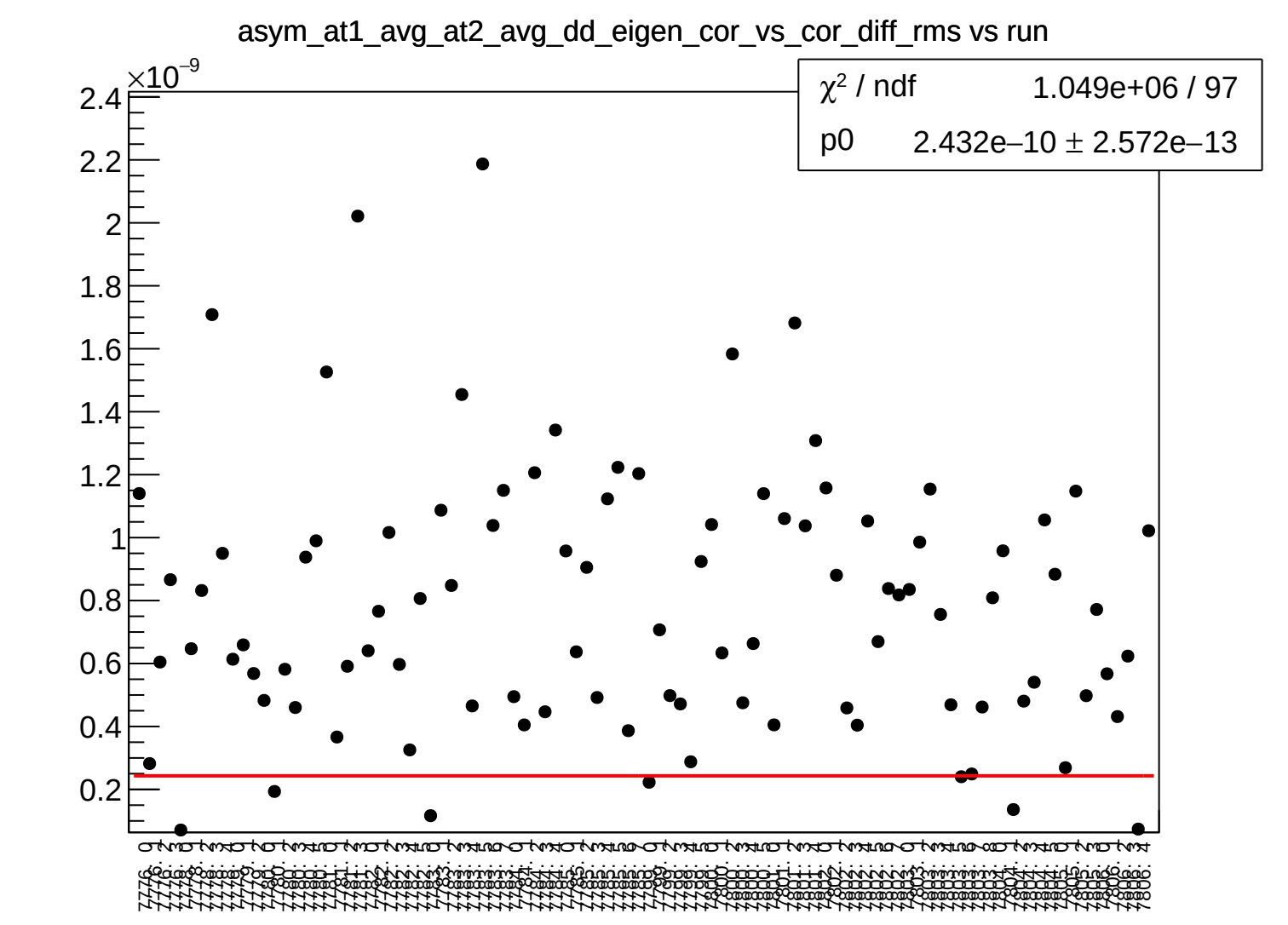

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 97
p0 224.5 ± 0.1654
350
300
250
200
150

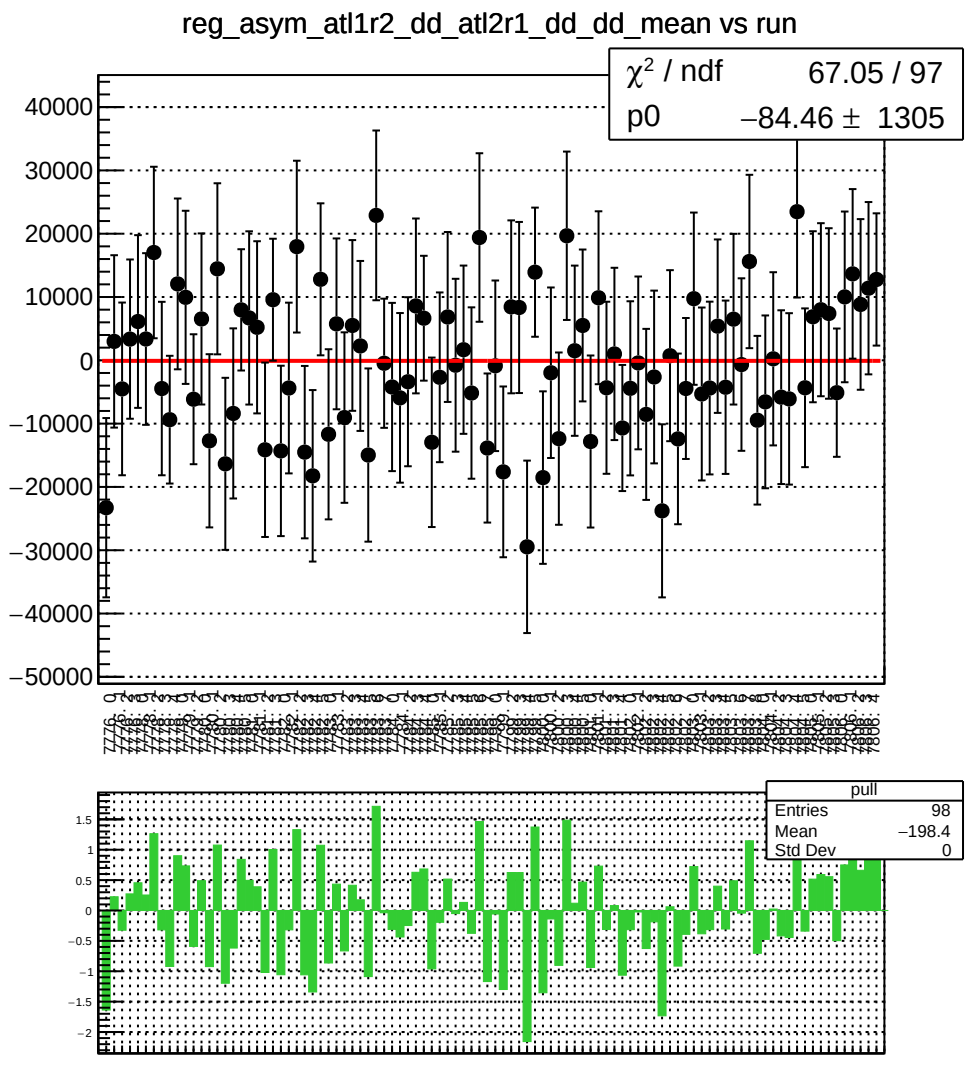

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.07 / 97
p0 0.2392 ± 0.2339
pull
Entries 98
Mean 325.4
Std Dev 0
pull1D
Entries 98
Mean −0.02063
Std Dev 0.8923

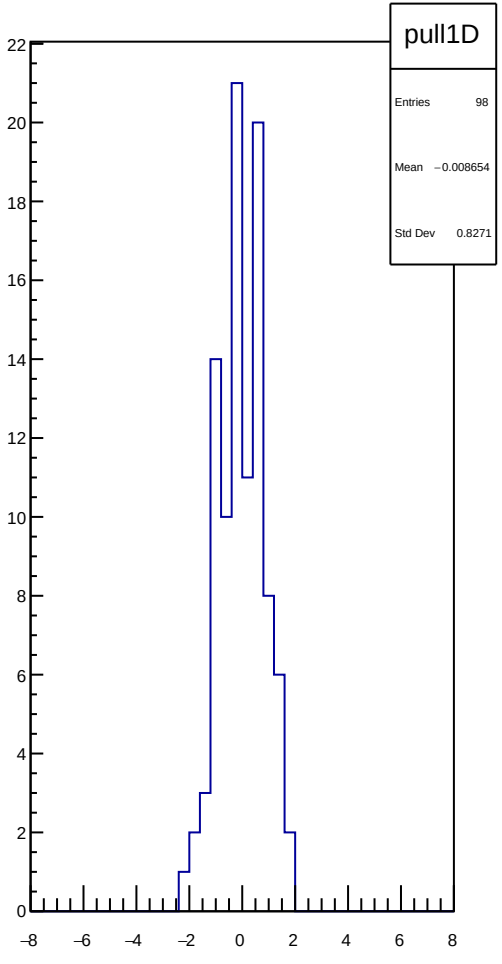

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 97
p0 224.5 ± 0.1654
350
300
250
200
150

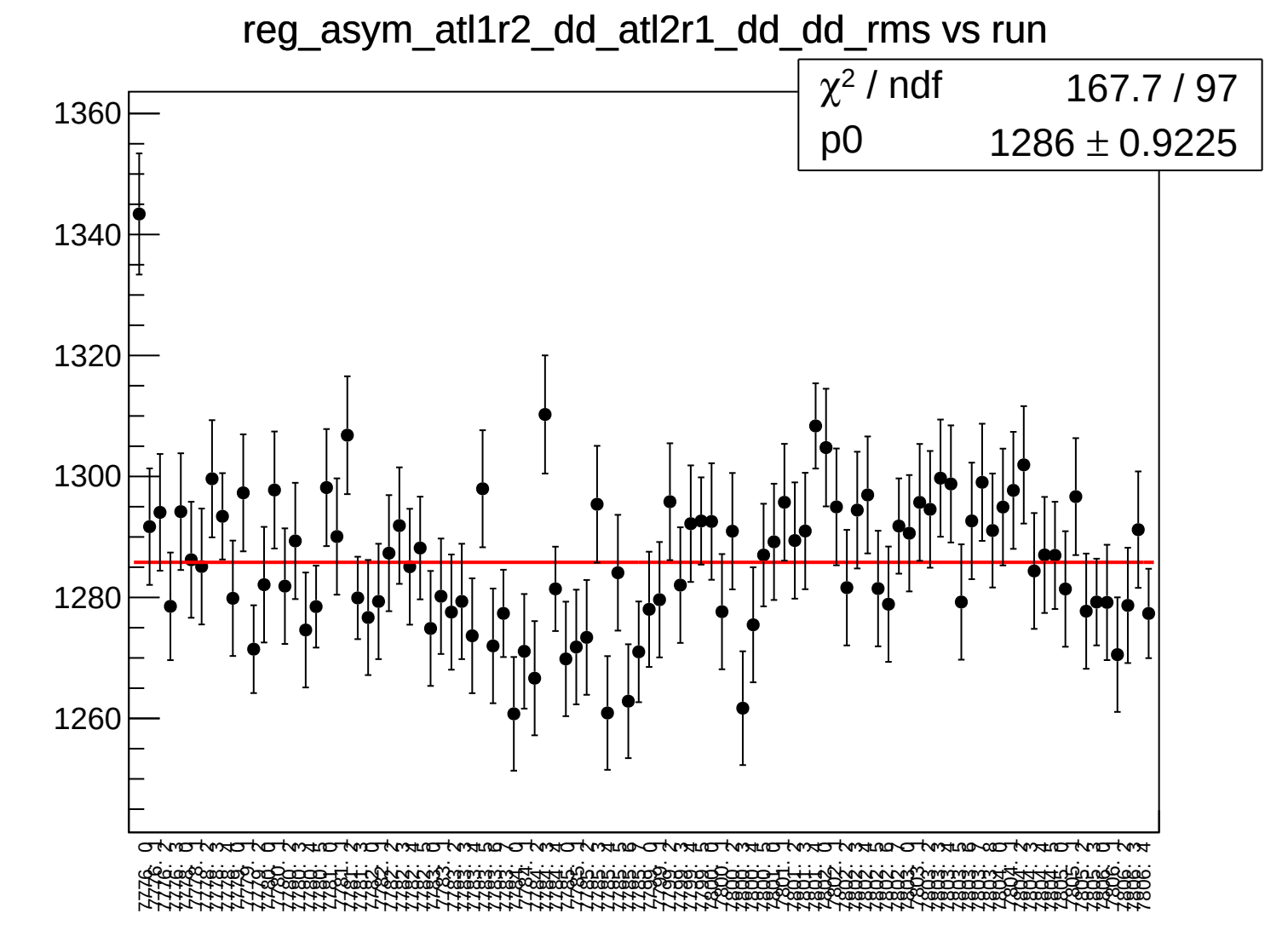

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.99 / 97
p0 −2.4e−13 ± 3.638e−13
60
40
20
0
−20
−40
pull
Entries 98
Mean 28.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

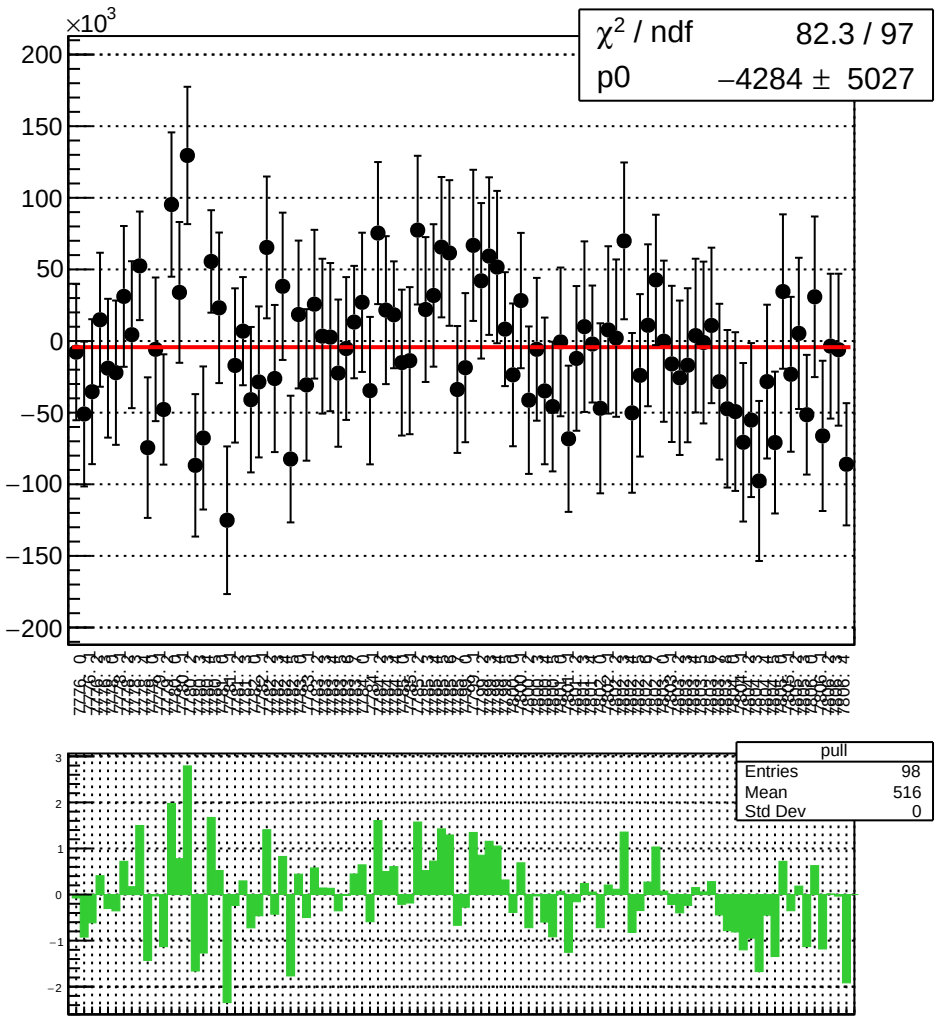

pull1D
Entries 98
Mean 0.05867
Std Dev 0.9072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

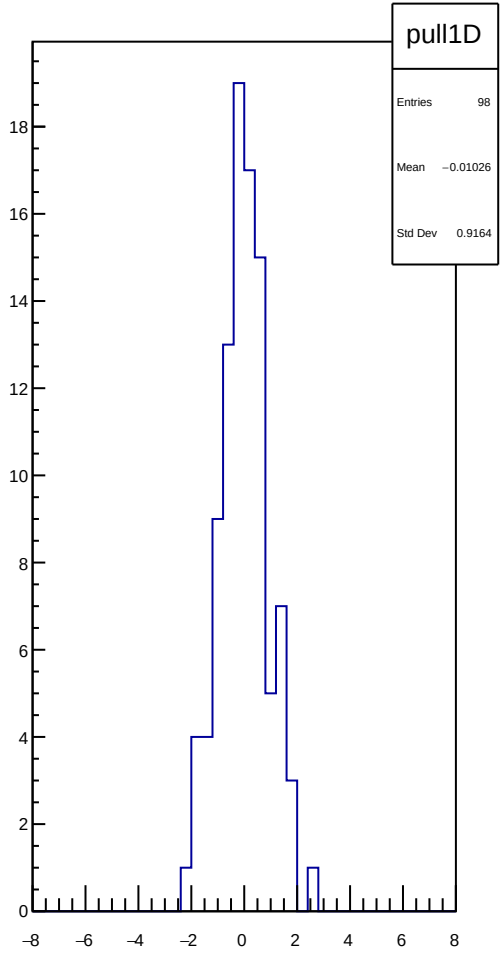

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.049e+06 / 97
p0 2.432e−10 ± 2.572e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

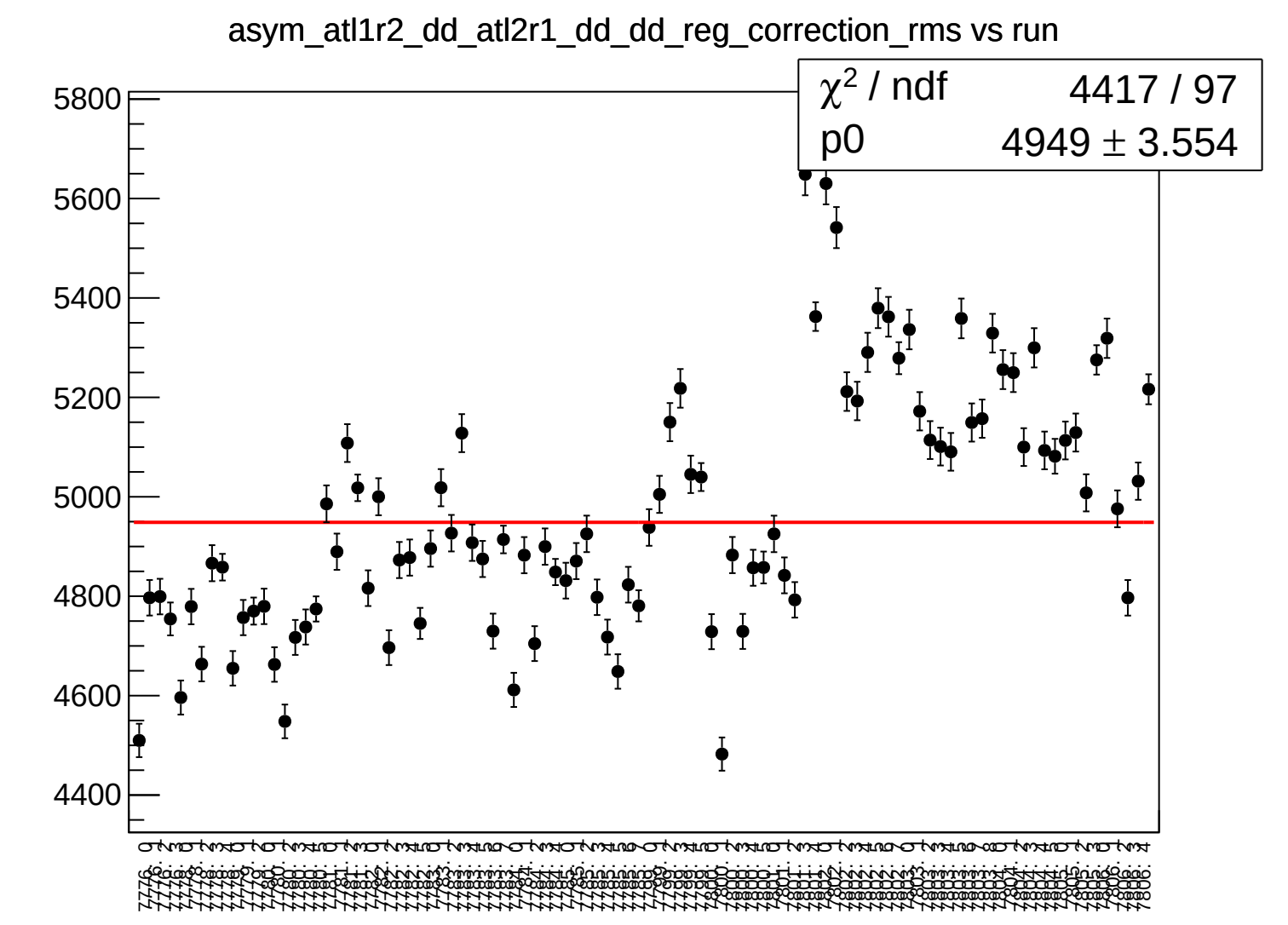

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 67.05 / 97
p0 −84.46 ± 1305
pull
Entries 98
Mean −198.4
Std Dev 0

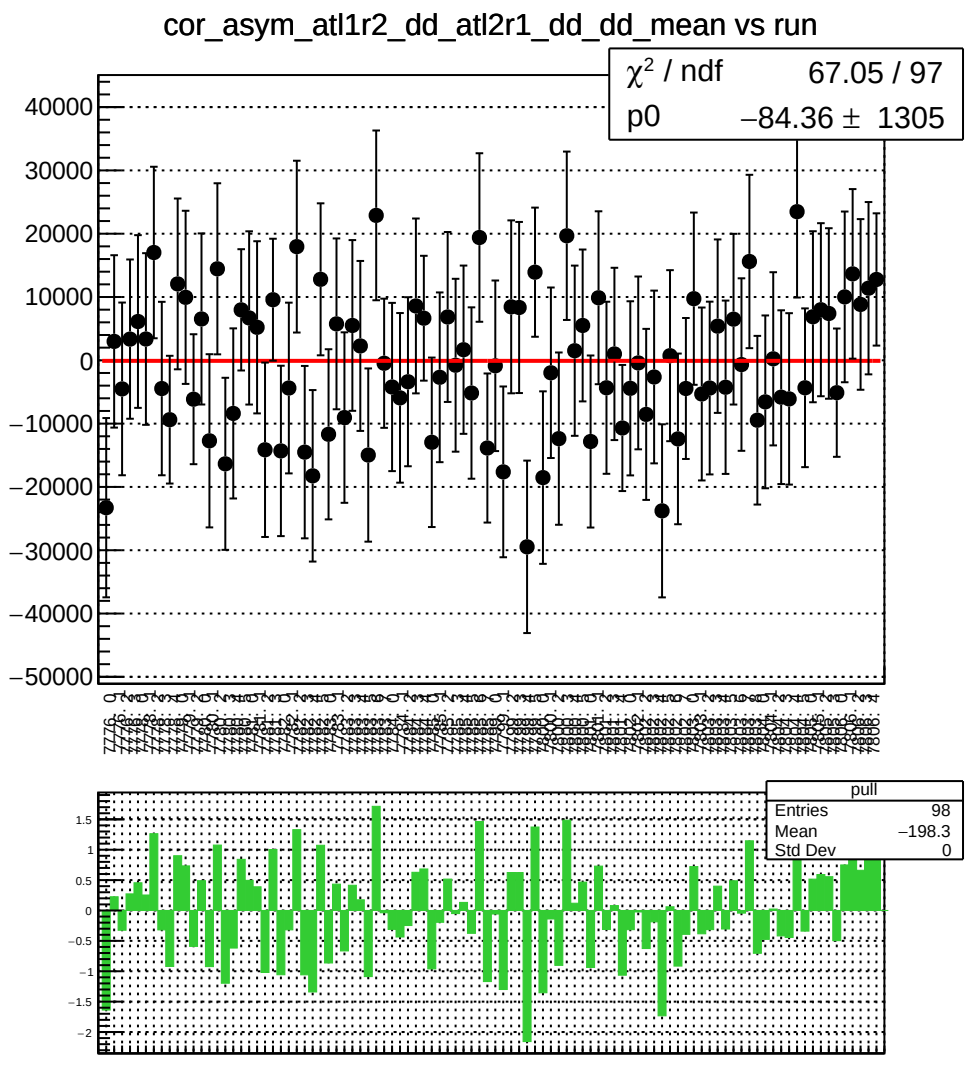

pull1D
Entries 98
Mean −0.008654
Std Dev 0.8271

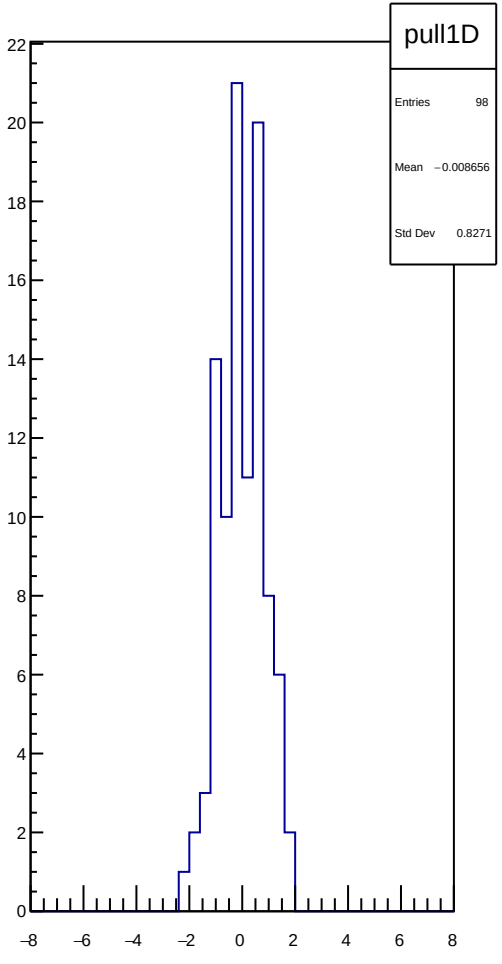

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 167.7 / 97
p0 1286 ± 0.9225
1360
1340
1320
1300
1280
1260

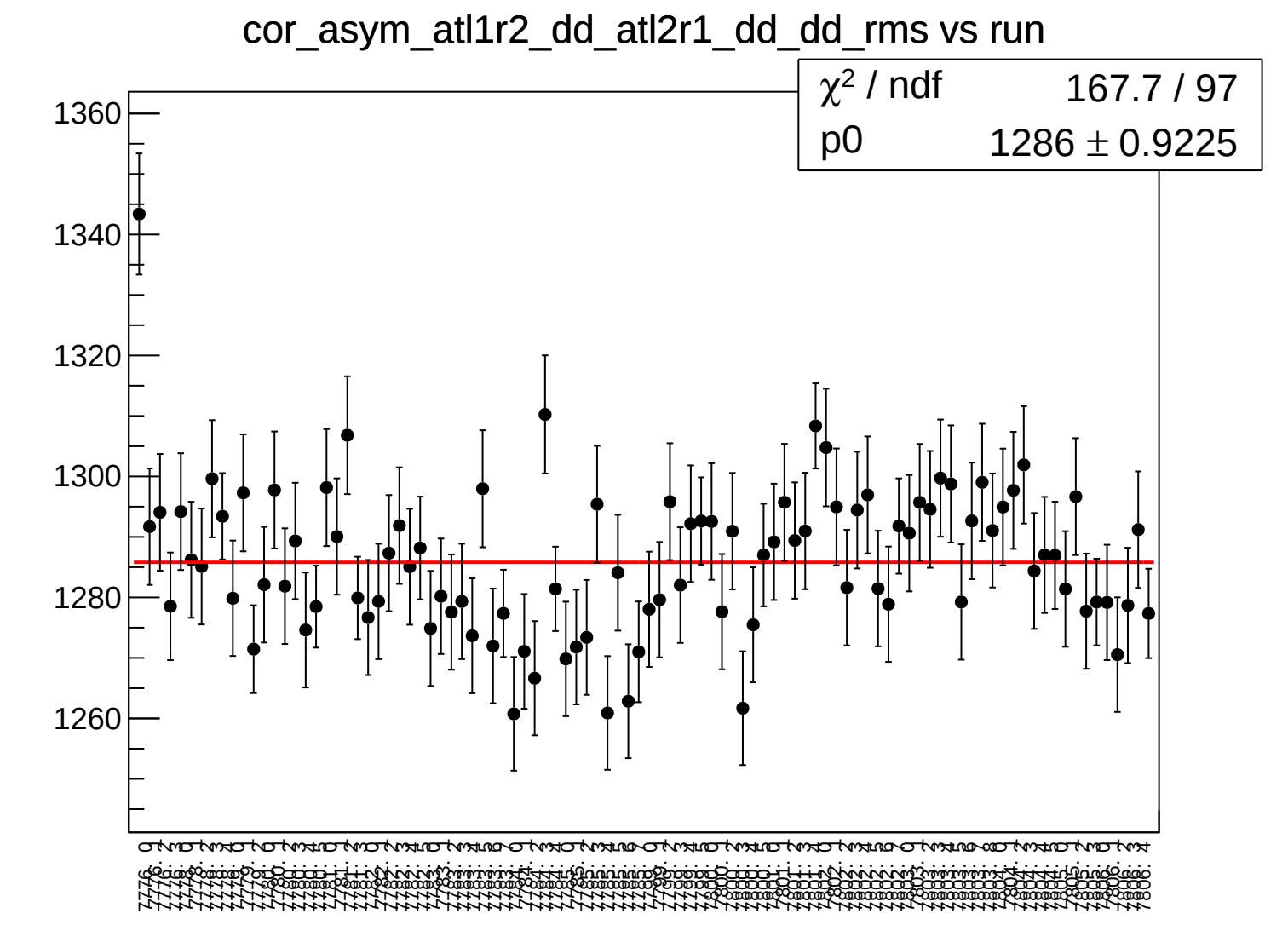

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.3 / 97
p0 −4284 ± 5027
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 516
Std Dev 0
3
2
1
0
−1
−2

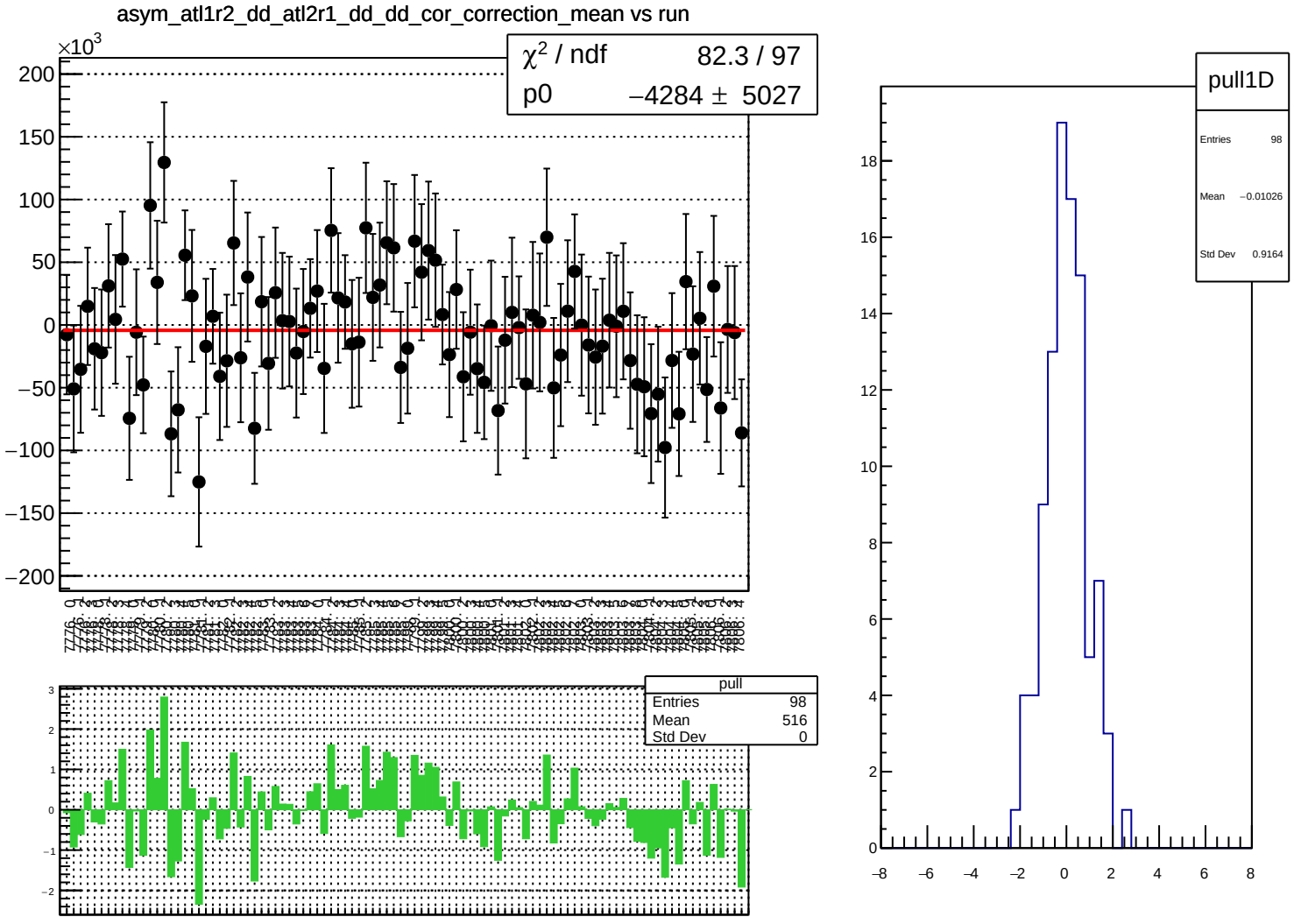

pull1D
Entries 98
Mean −0.01026
Std Dev 0.9164
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

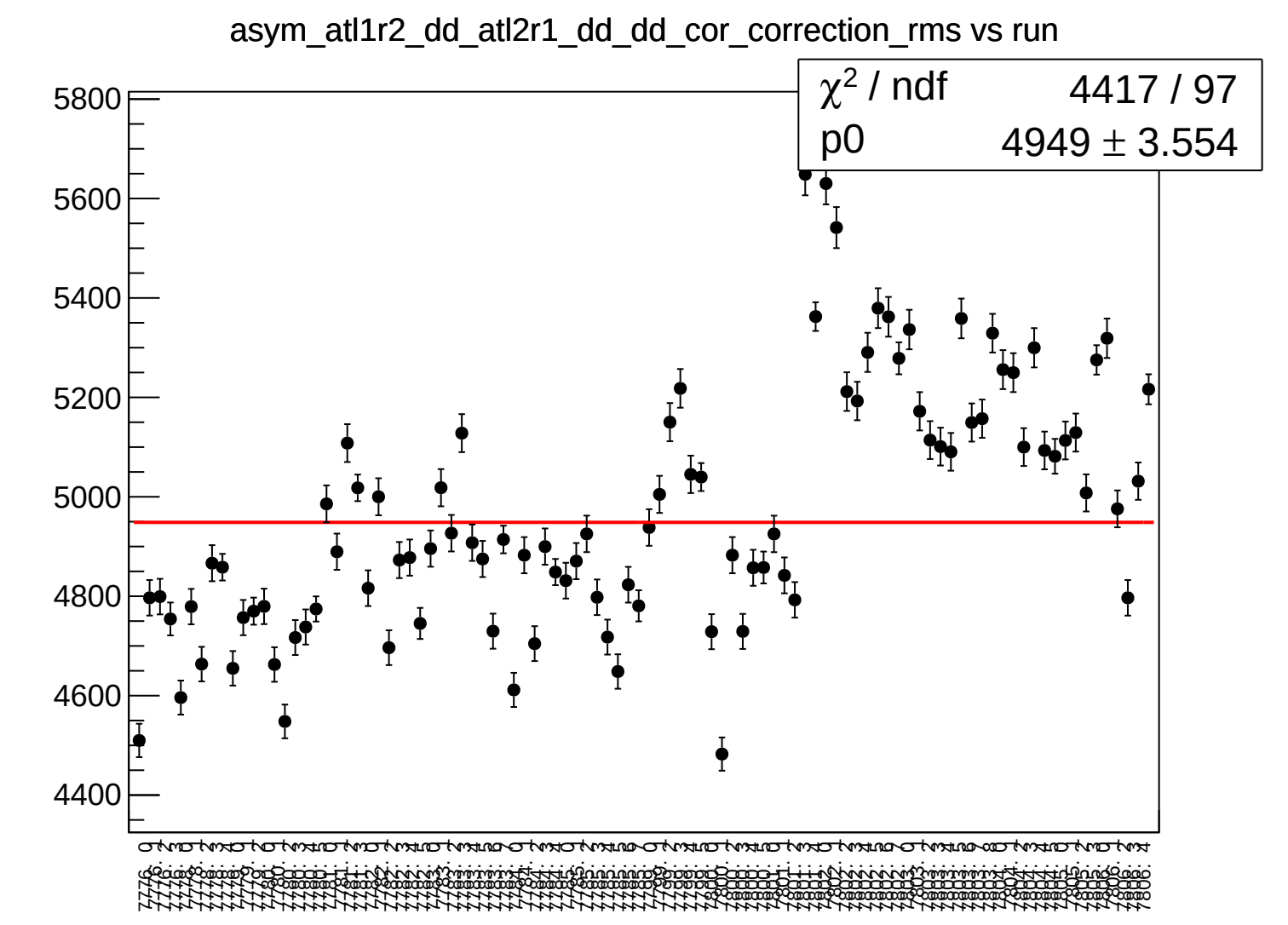

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 4417 / 97
p0 4949 ± 3.554
5800
5600
5400
5200
5000
4800
4600
4400

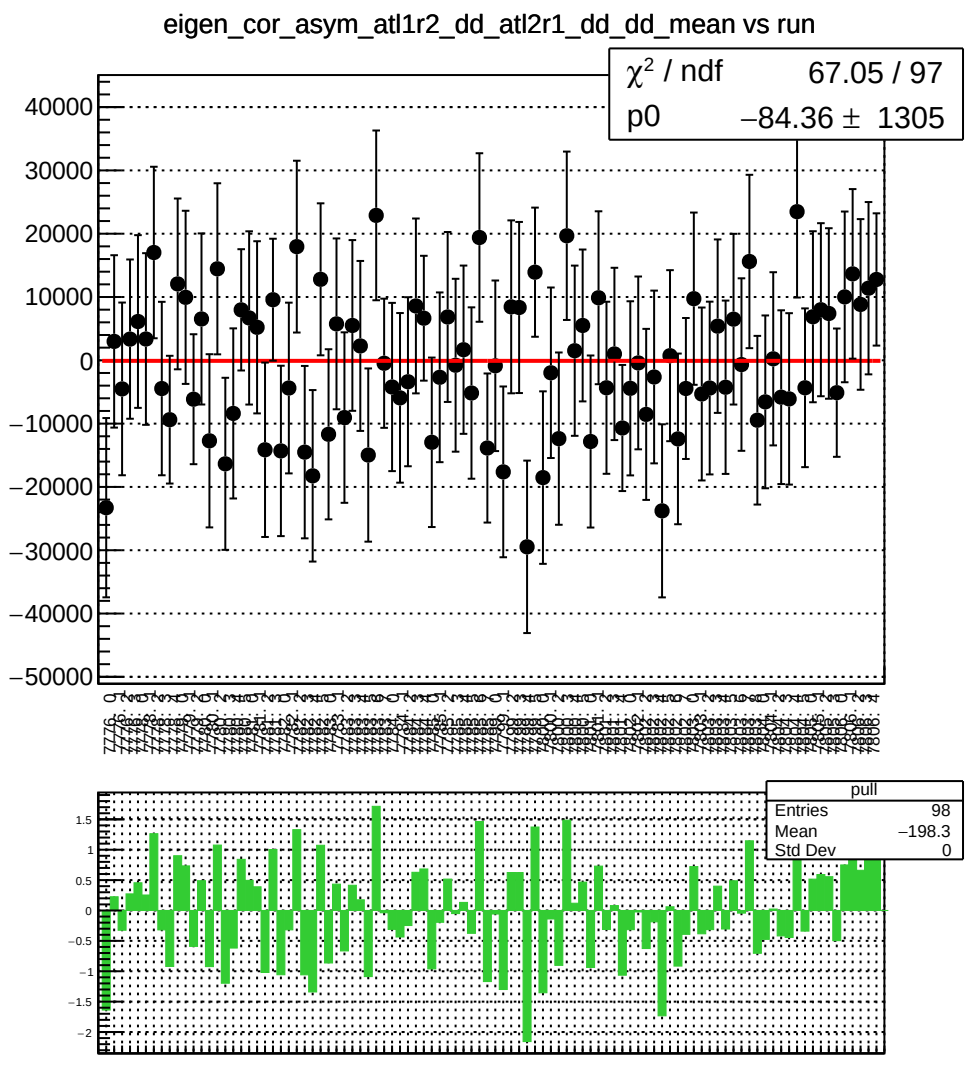

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 67.05 / 97
p0 −84.36 ± 1305
pull
Entries 98
Mean −198.3
Std Dev 0

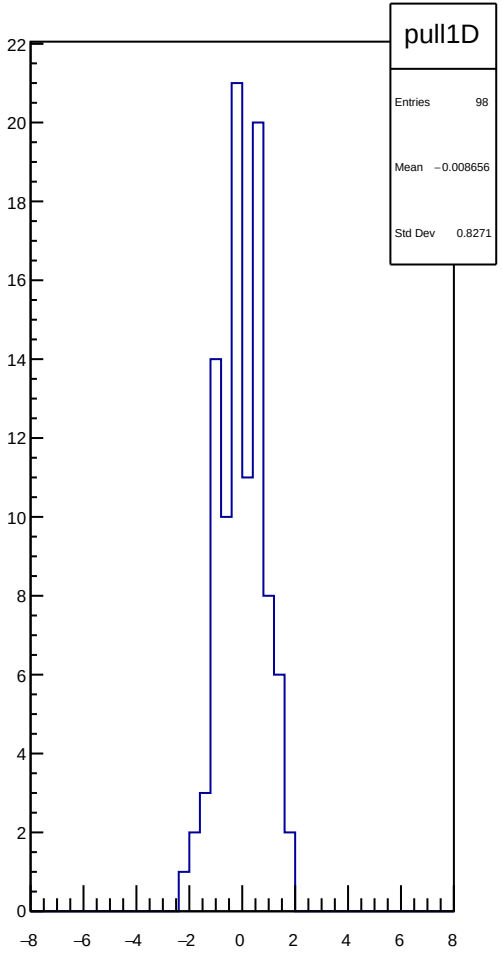

pull1D
Entries 98
Mean −0.008656
Std Dev 0.8271

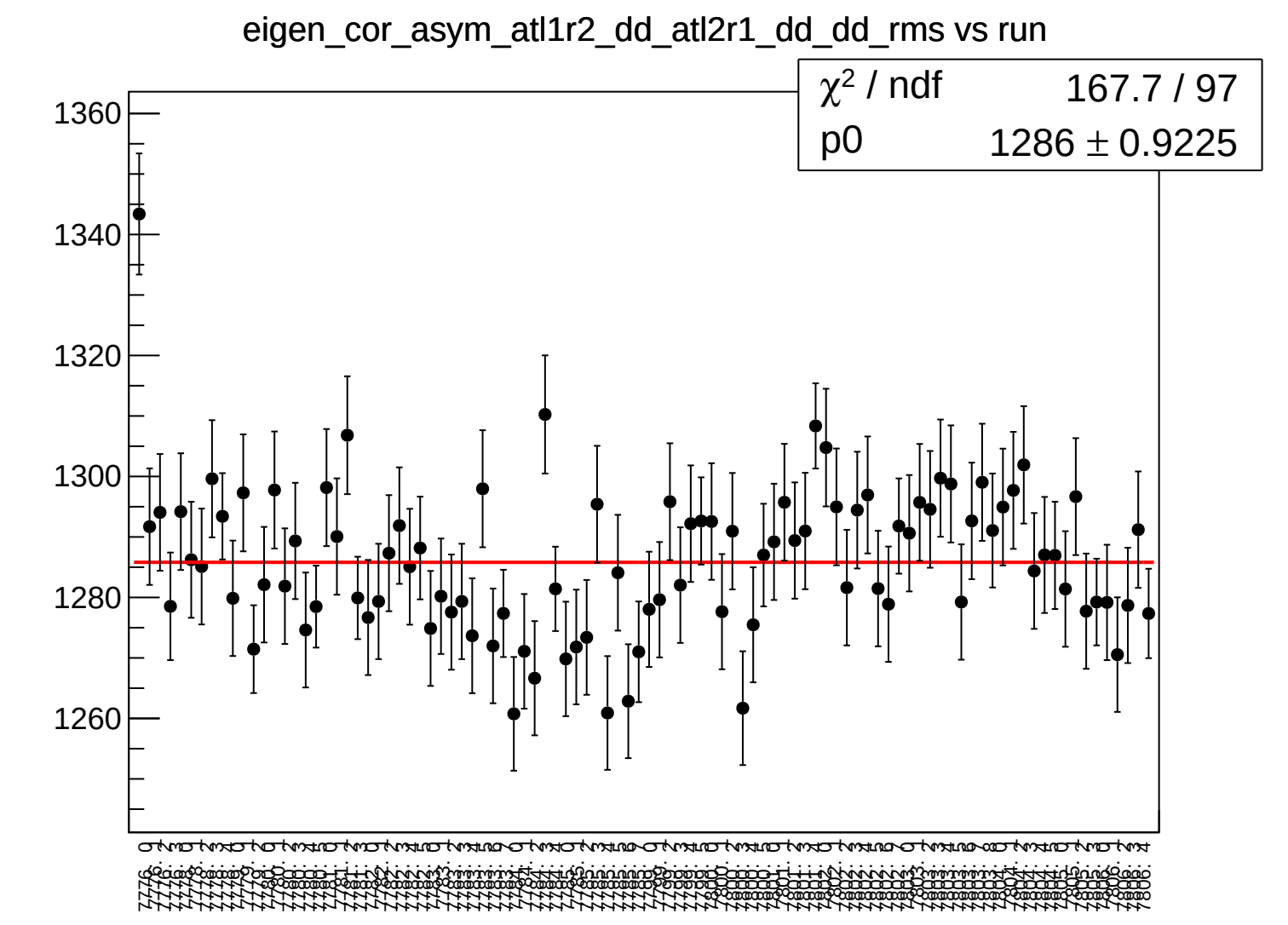

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 167.7 / 97
p0 1286 ± 0.9225
1360
1340
1320
1300
1280
1260

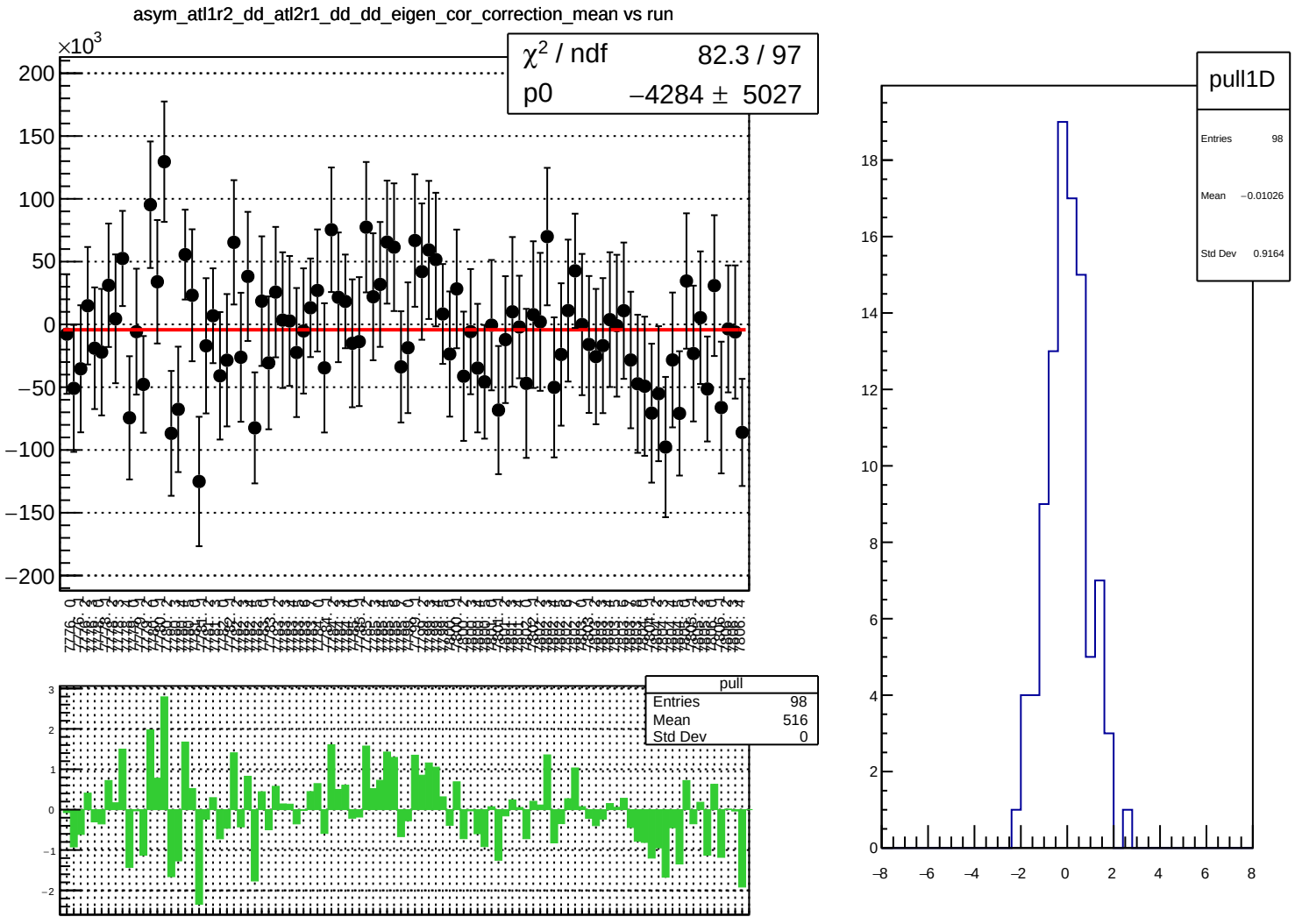

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.3 / 97
p0 −4284 ± 5027
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 516
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01026
Std Dev 0.9164
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

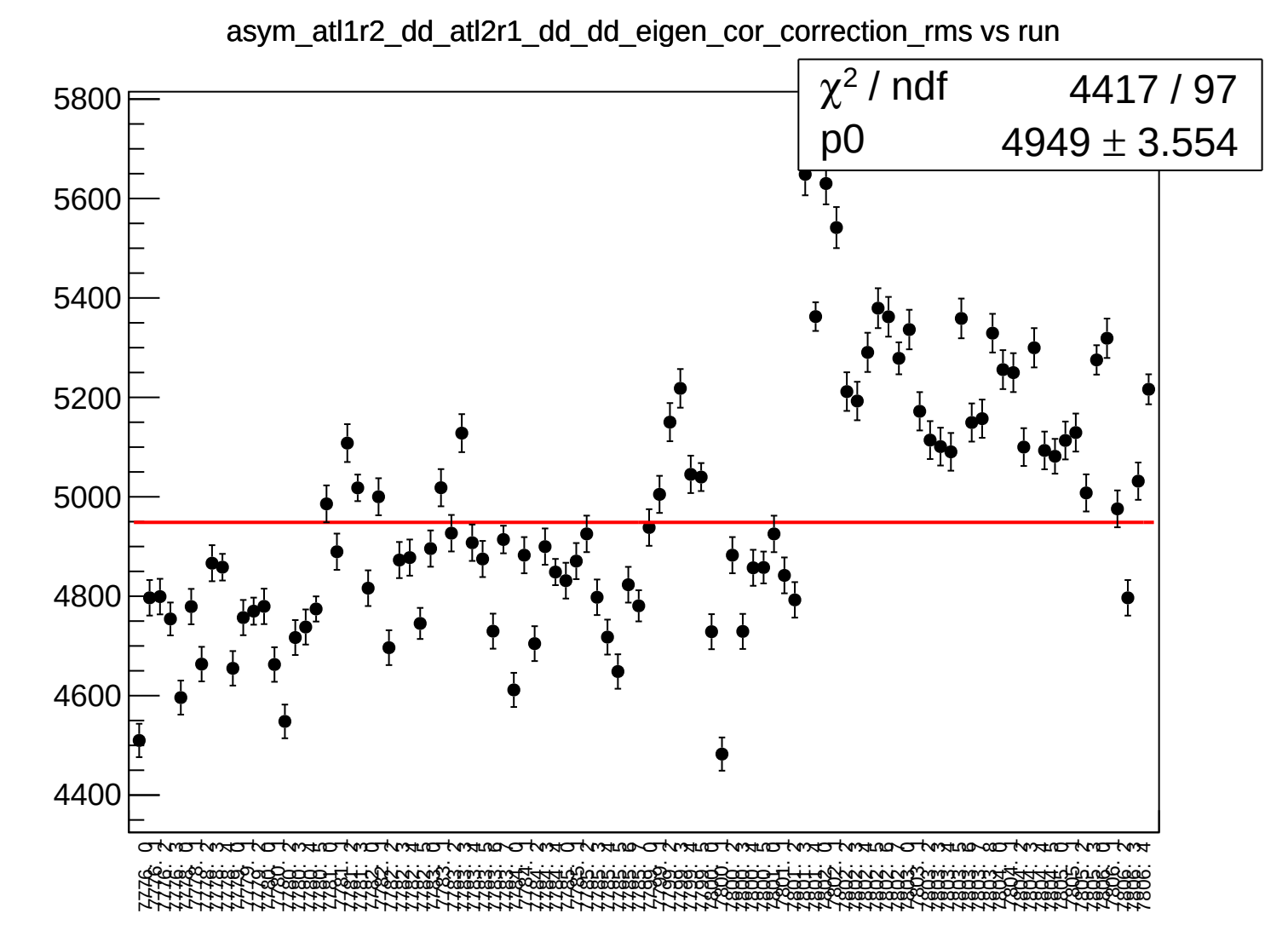

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ^2 / ndf 4417 / 97
p0 4949 ± 3.554
5800
5600
5400
5200
5000
4800
4600
4400

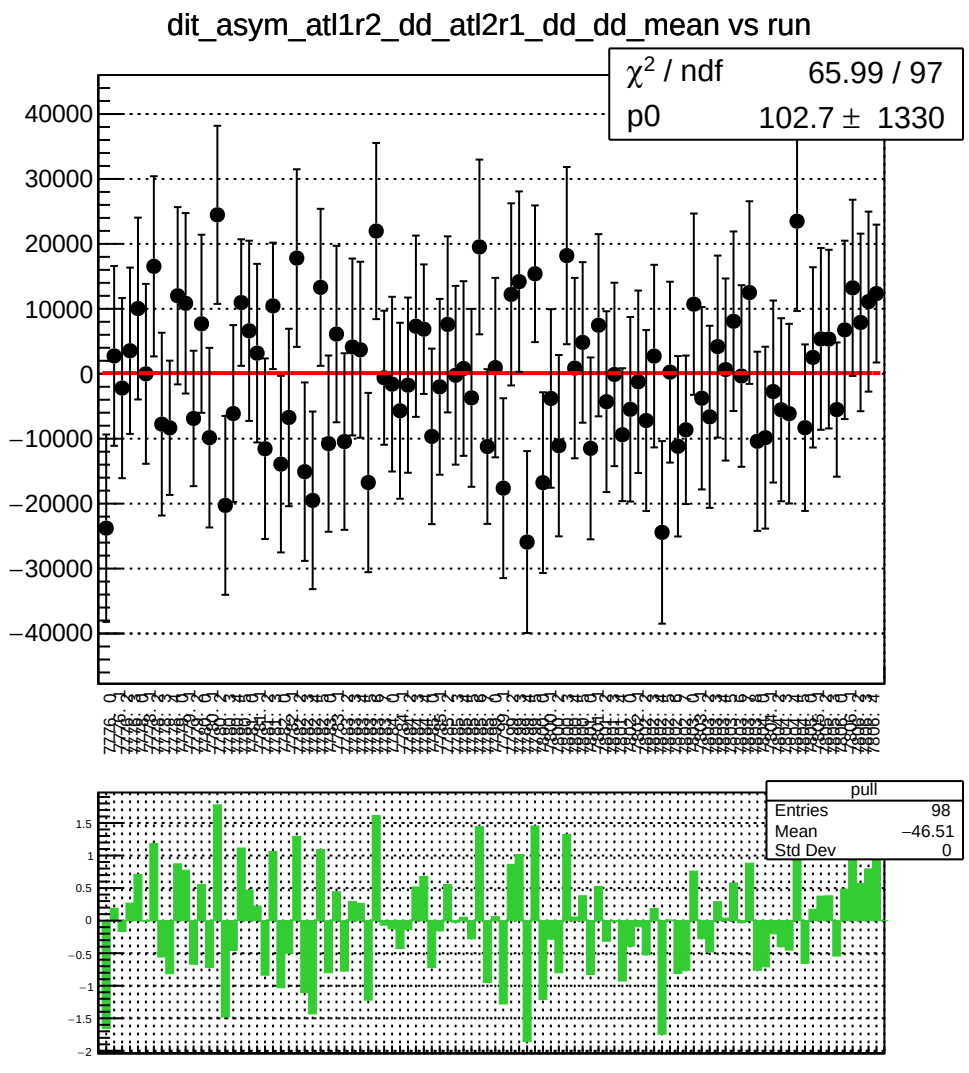

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 67.05 / 97
p0 −84.36 ± 1305
pull
Entries 98
Mean −198.3
Std Dev 0

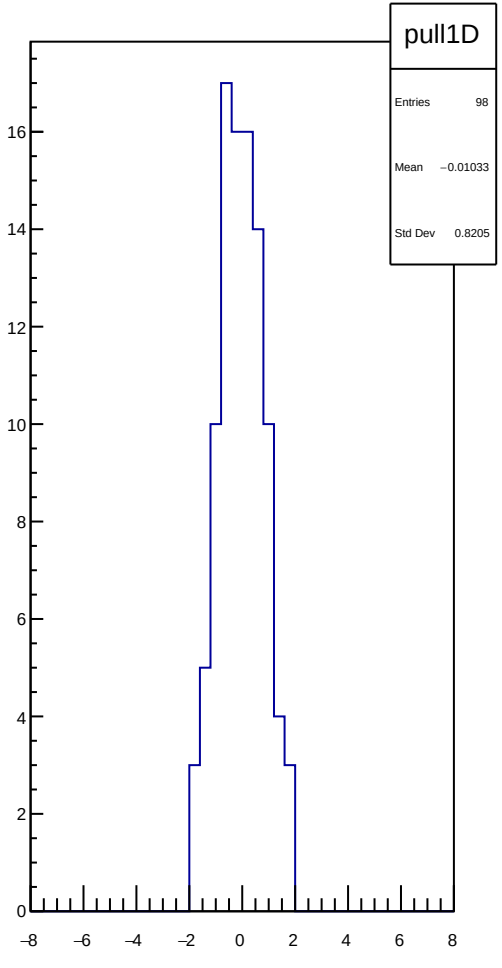

pull1D
Entries 98
Mean −0.008656
Std Dev 0.8271

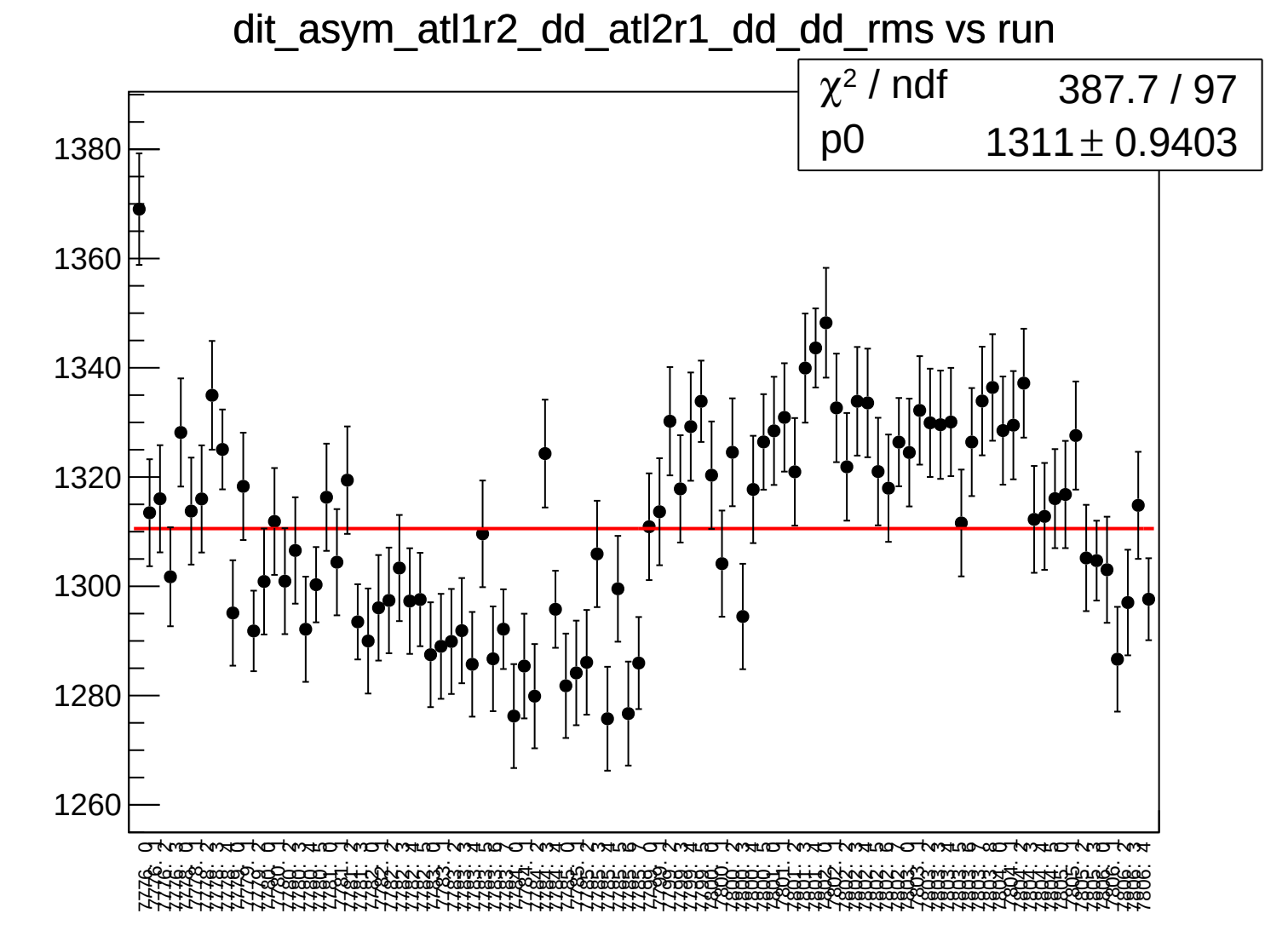

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 167.7 / 97
p0 1286 ± 0.9225
1360
1340
1320
1300
1280
1260

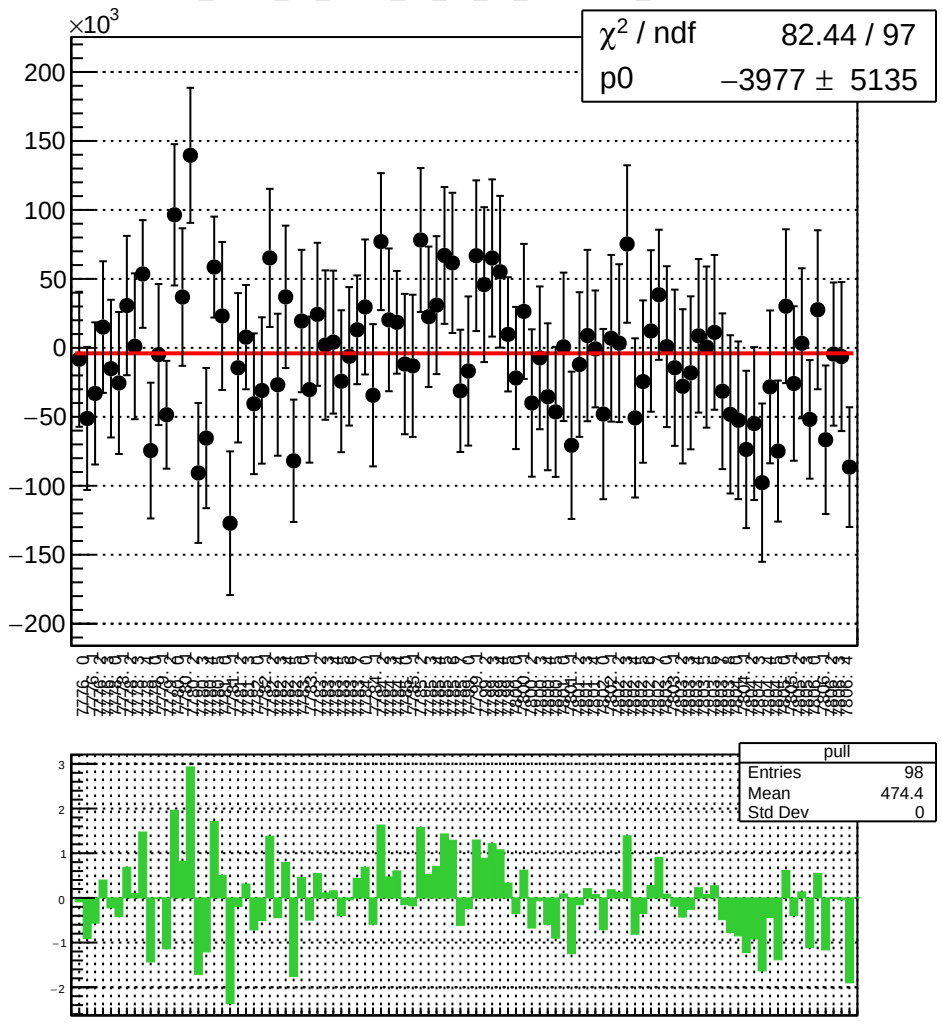

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.3 / 97
p0 −4284 ± 5027
pull
Entries 98
Mean 516
Std Dev 0
pull1D
Entries 98
Mean −0.01026
Std Dev 0.9164

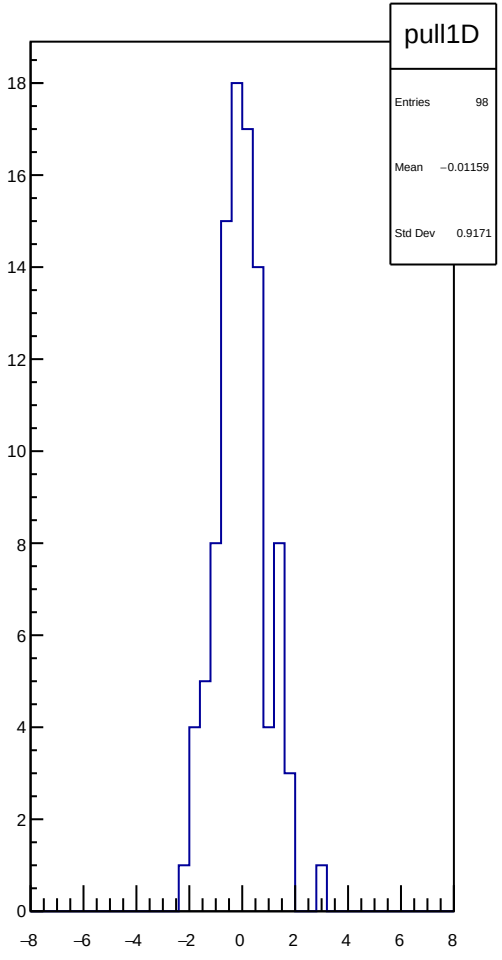

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4417 / 97
p0 4949 ± 3.554
5800
5600
5400
5200
5000
4800
4600
4400

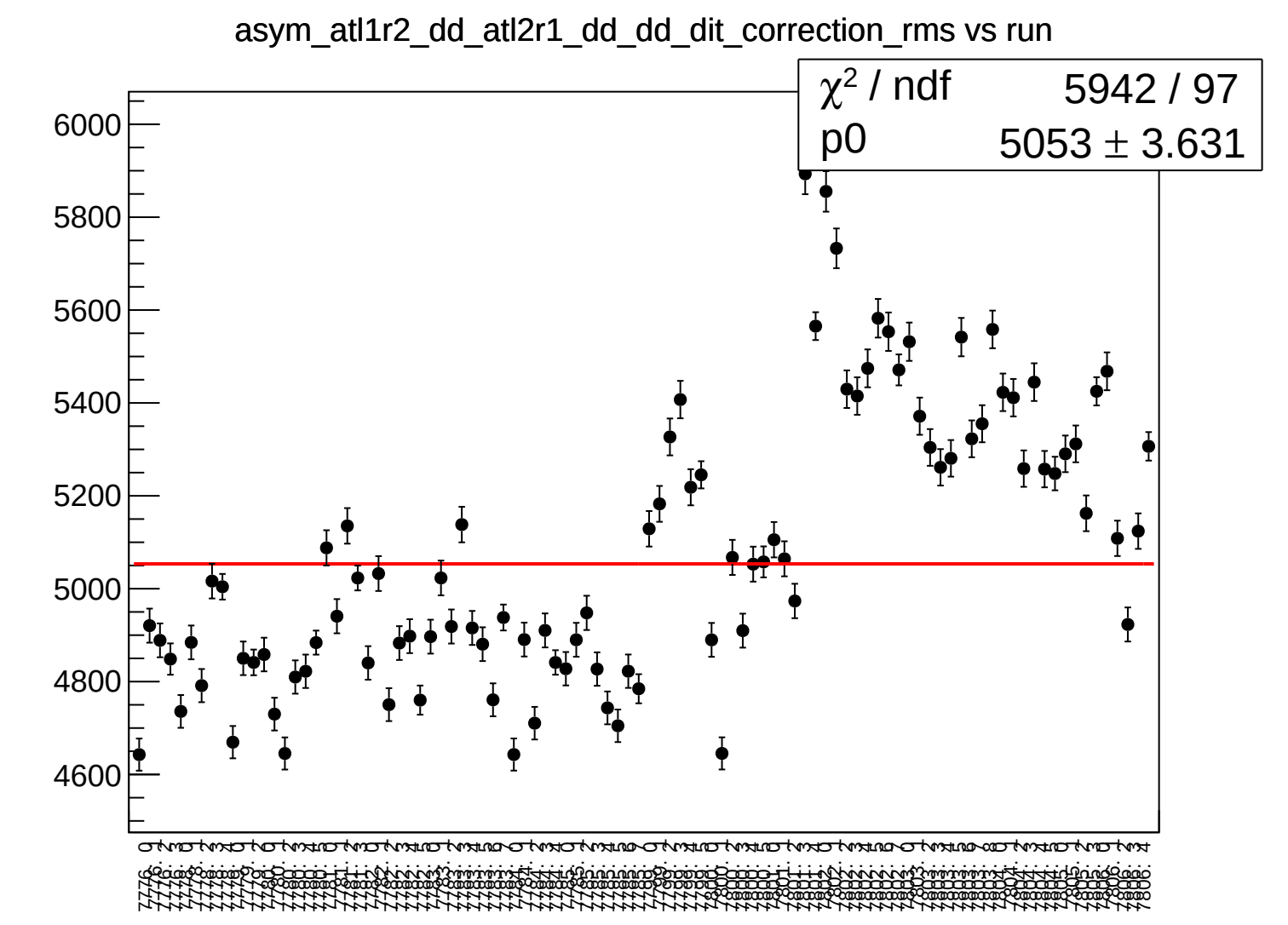

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 65.99 / 97
p0 102.7 ± 1330
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean −46.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

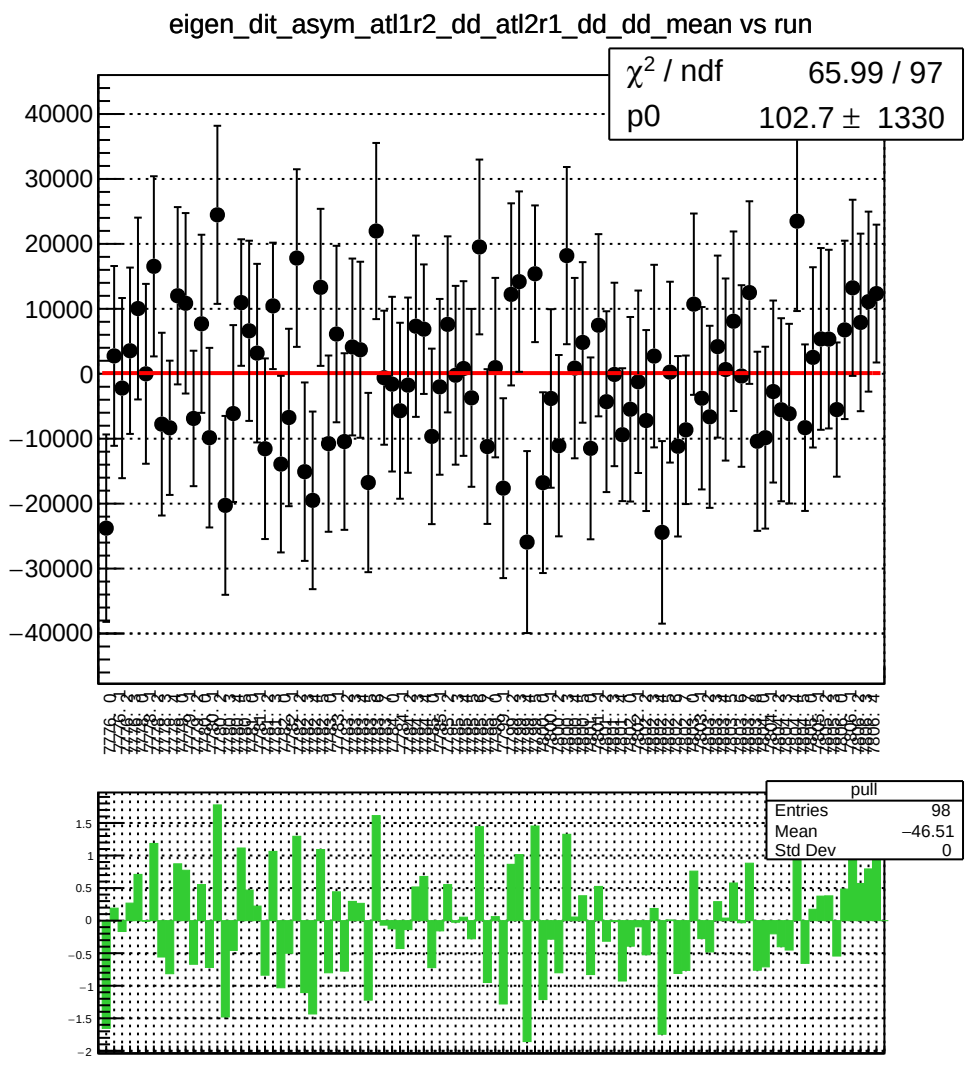

pull1D
Entries 98
Mean −0.01033
Std Dev 0.8205
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

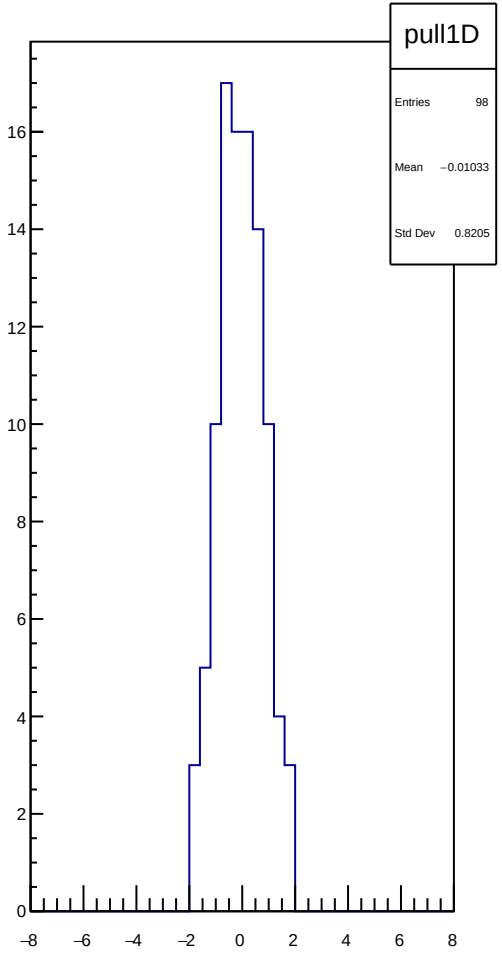

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 387.7 / 97
p0 1311 ± 0.9403
1380
1360
1340
1320
1300
1280
1260

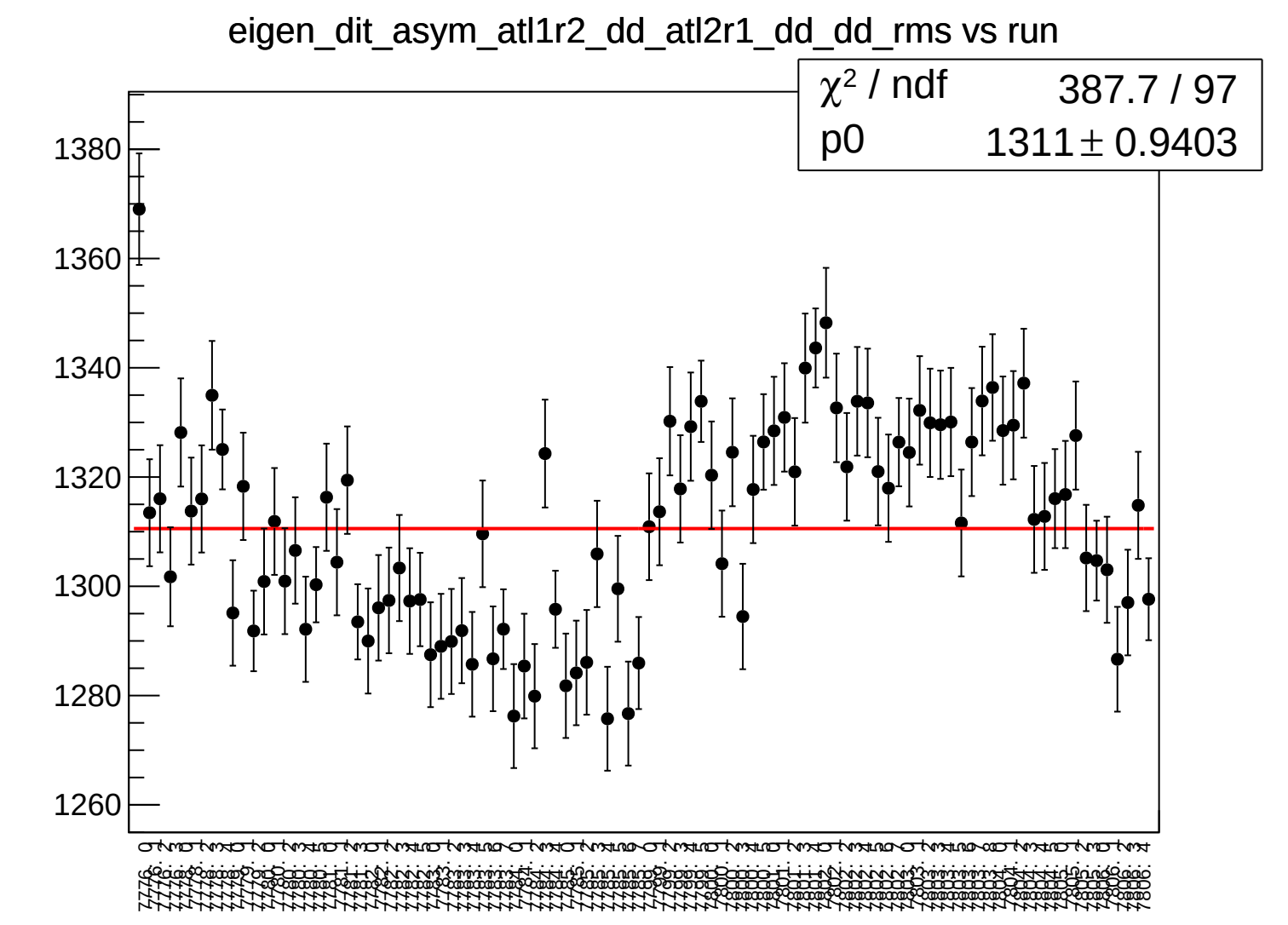

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.44 / 97
p0 −3977 ± 5135
pull
Entries 98
Mean 474.4
Std Dev 0

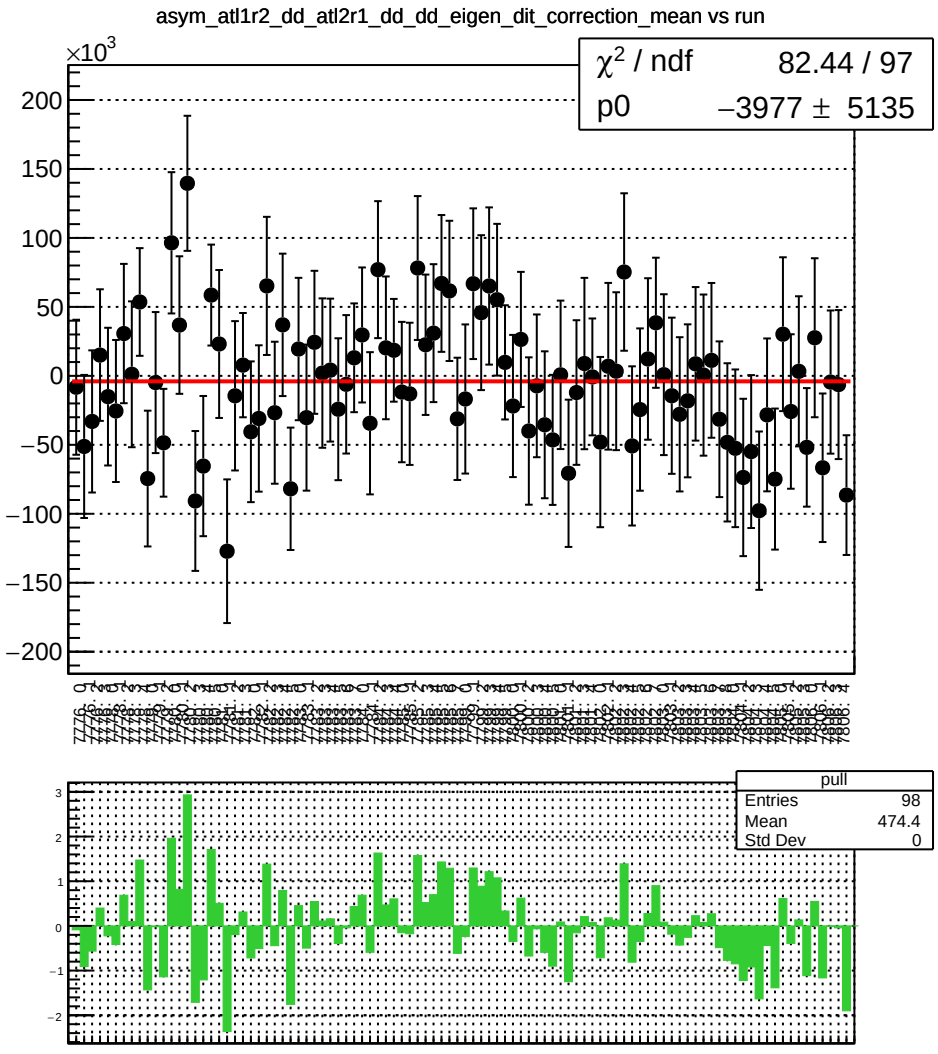

pull1D
Entries 98
Mean −0.01159
Std Dev 0.9171

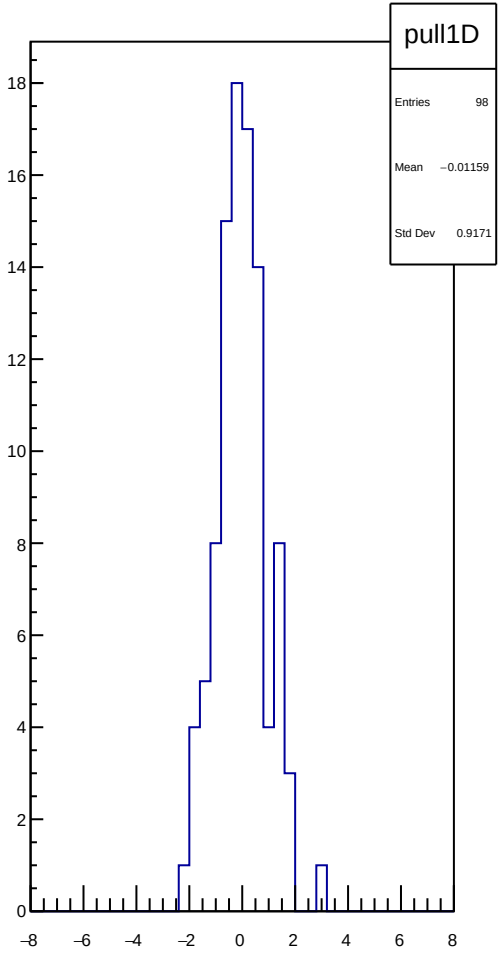

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 5942 / 97
p0 5053 ± 3.631
6000
5800
5600
5400
5200
5000
4800
4600

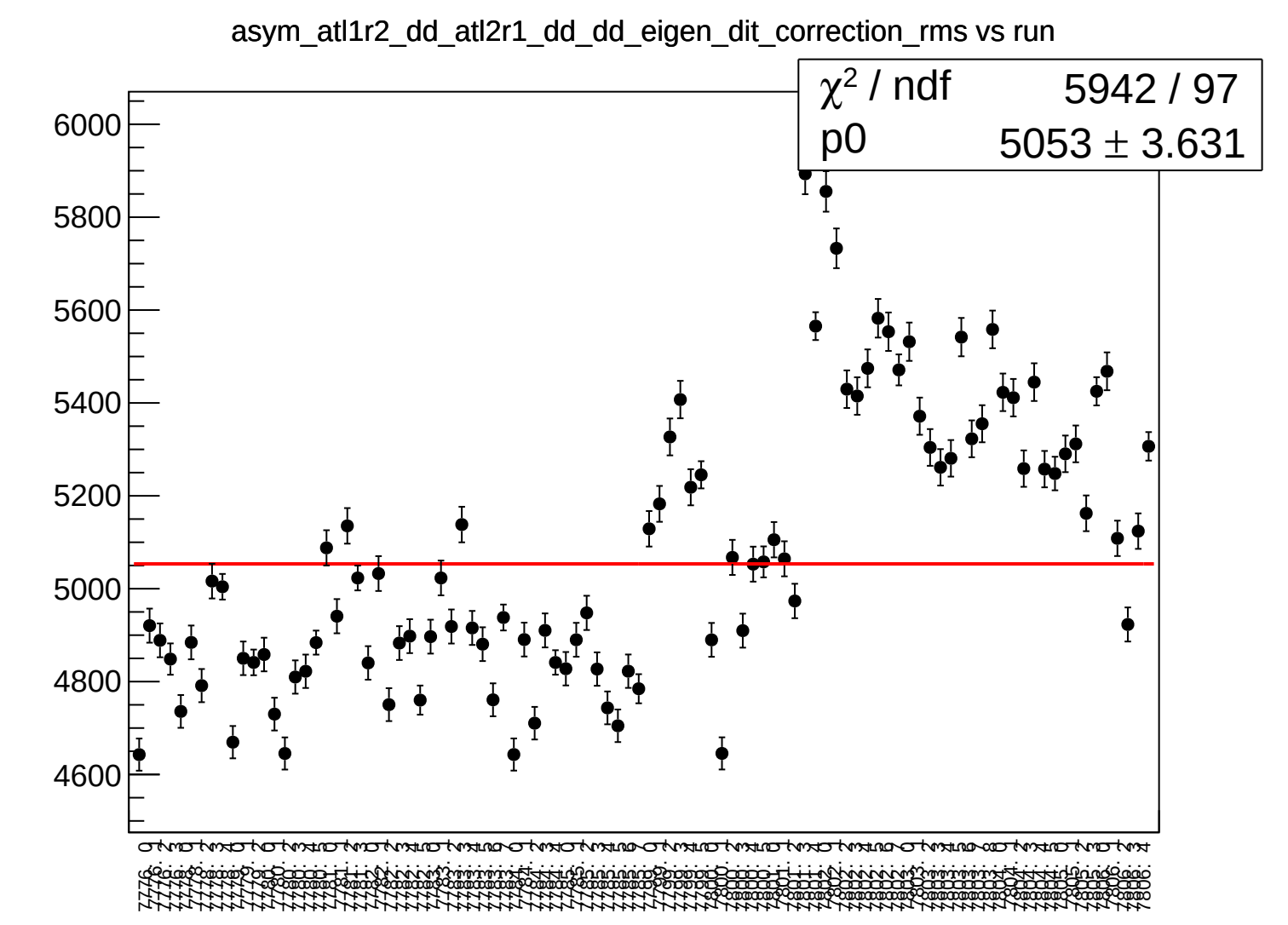

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 65.99 / 97
p0 102.7 ± 1330
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean −46.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

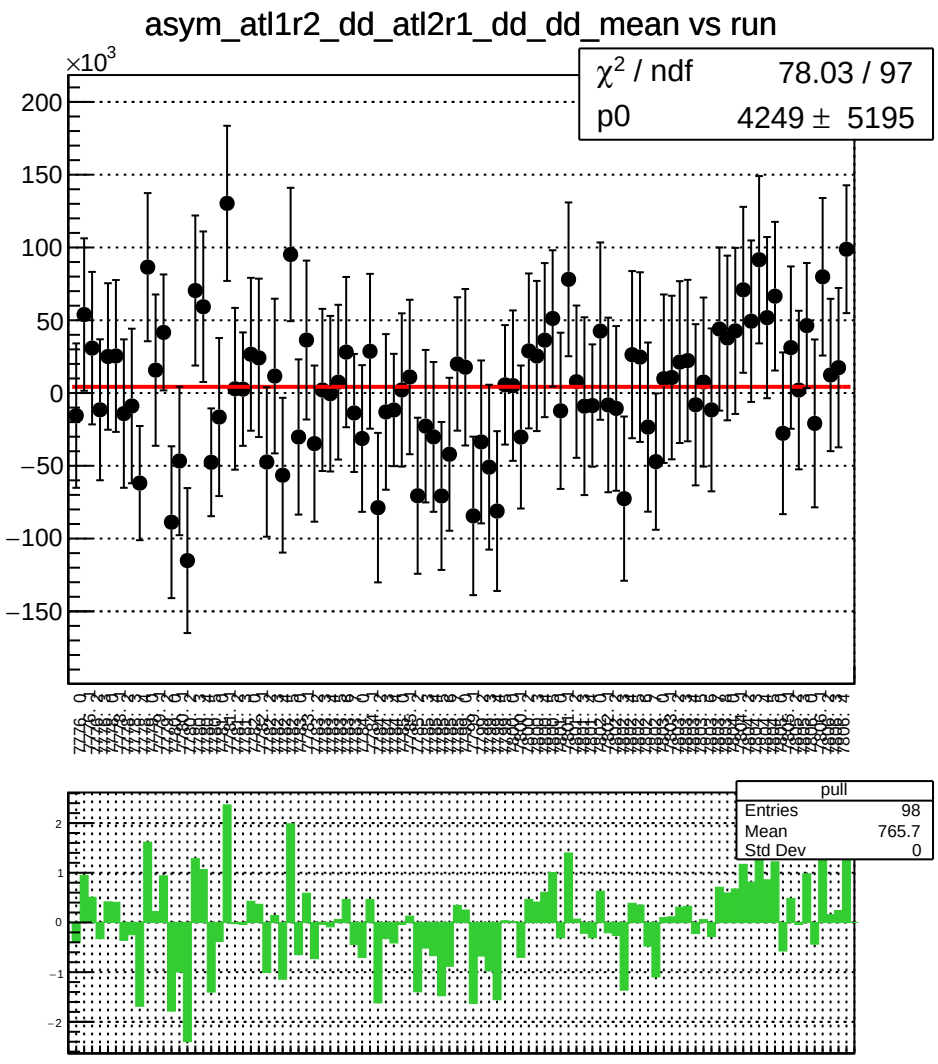

pull1D
Entries 98
Mean −0.01033
Std Dev 0.8205
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

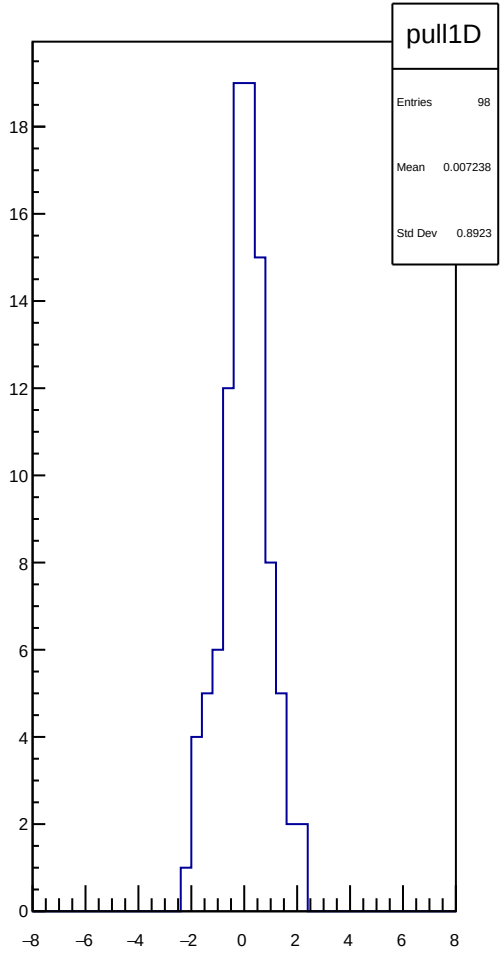

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 387.7 / 97
p0 1311 ± 0.9403
1380
1360
1340
1320
1300
1280
1260

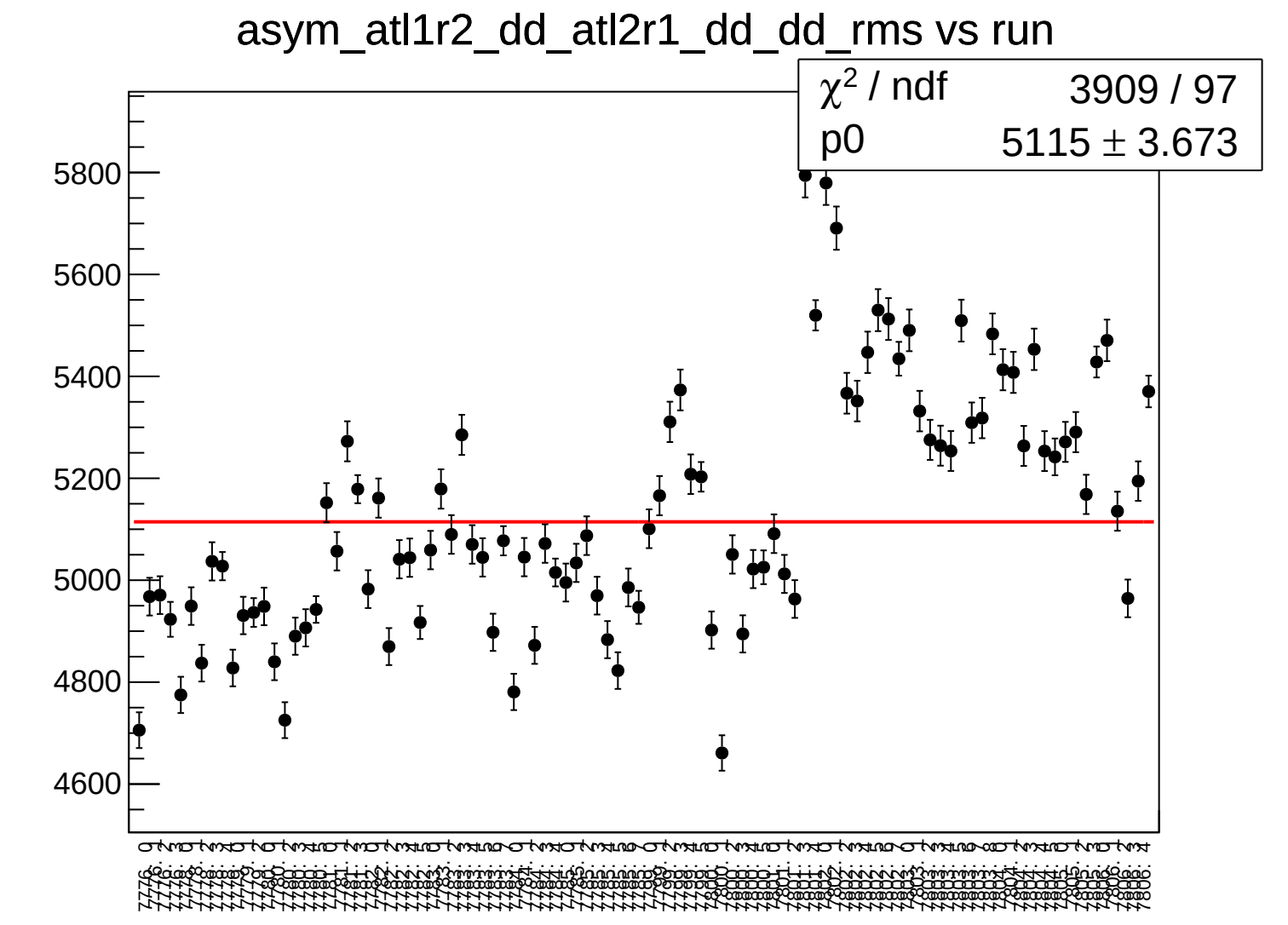

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.44 / 97
p0 −3977 ± 5135
pull
Entries 98
Mean 474.4
Std Dev 0

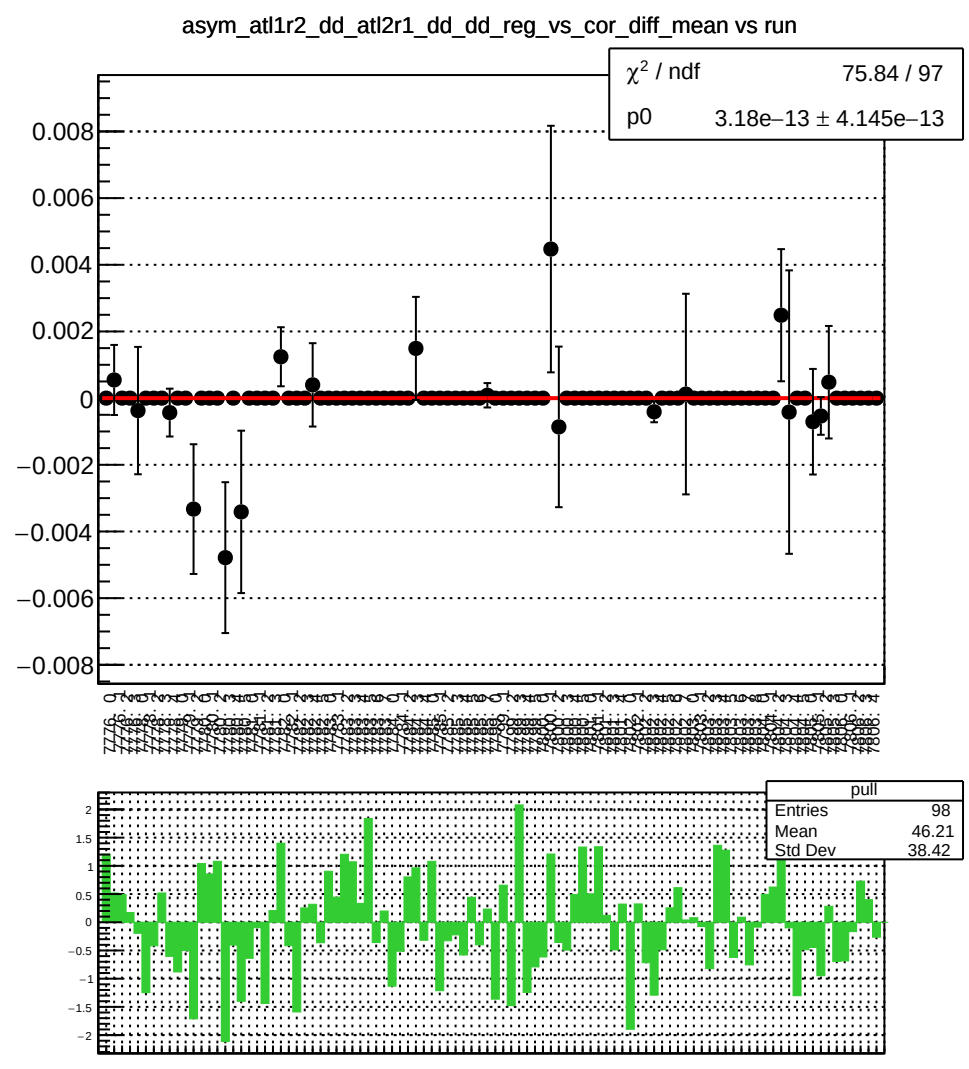

pull1D
Entries 98
Mean −0.01159
Std Dev 0.9171

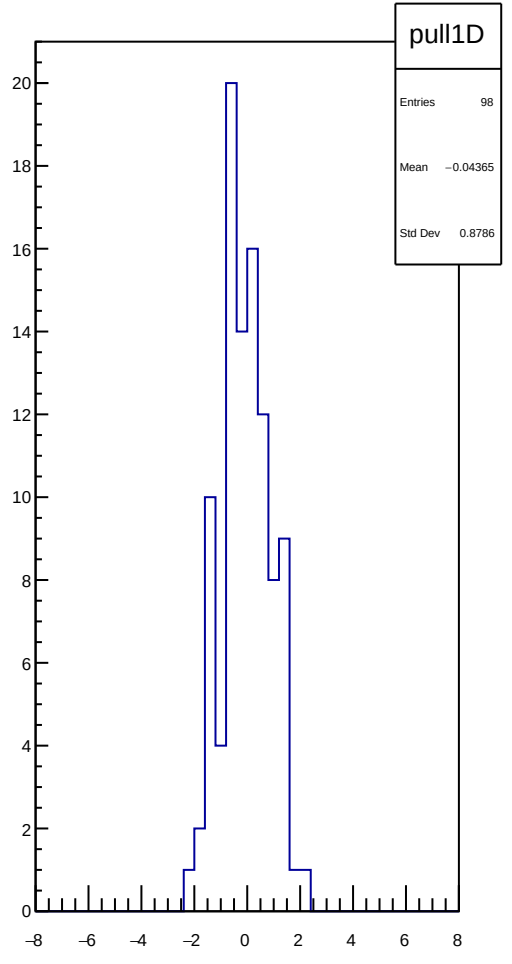

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5942 / 97
p0 5053 ± 3.631
6000
5800
5600
5400
5200
5000
4800
4600

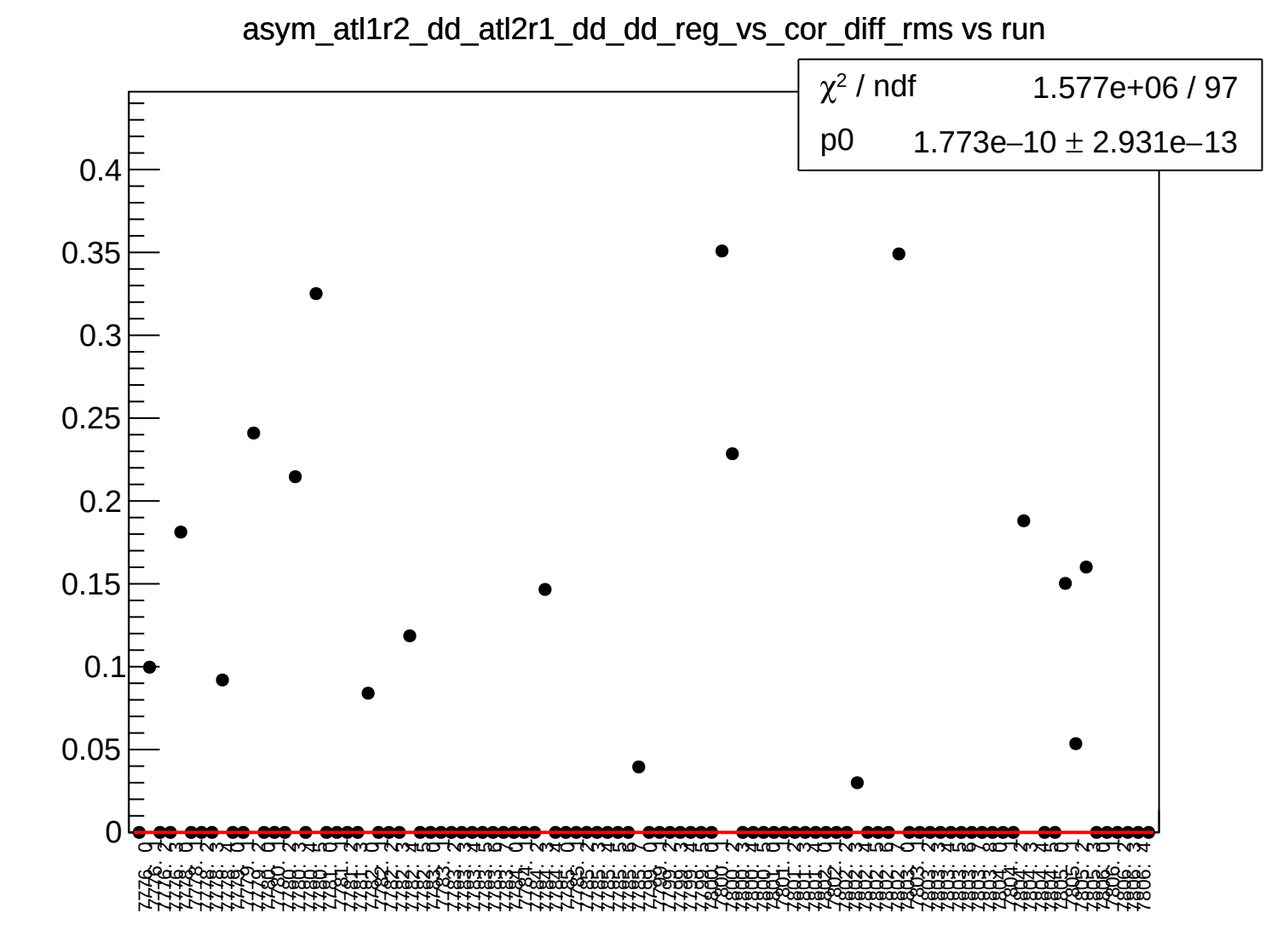

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 78.03 / 97
p0 4249 ± 5195
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 765.7
Std Dev 0
2
1
0
−1
−2

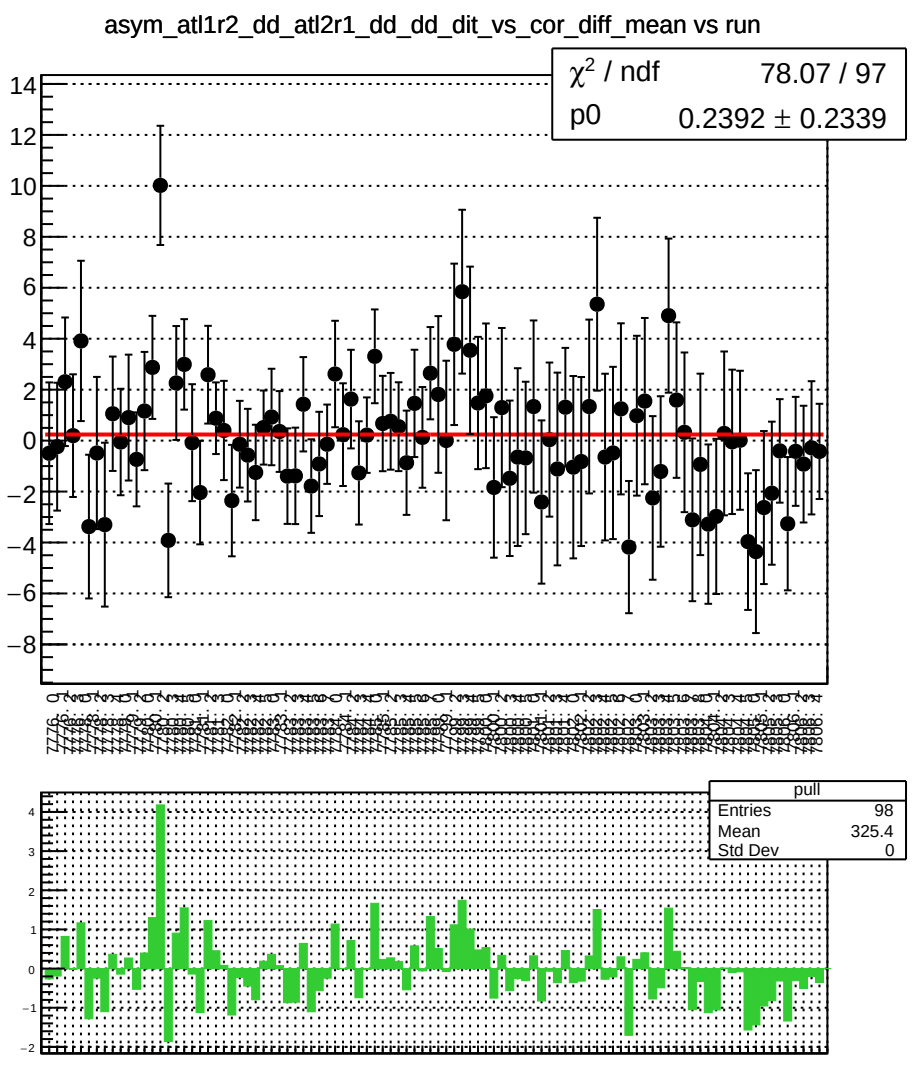

pull1D
Entries 98
Mean 0.007238
Std Dev 0.8923
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

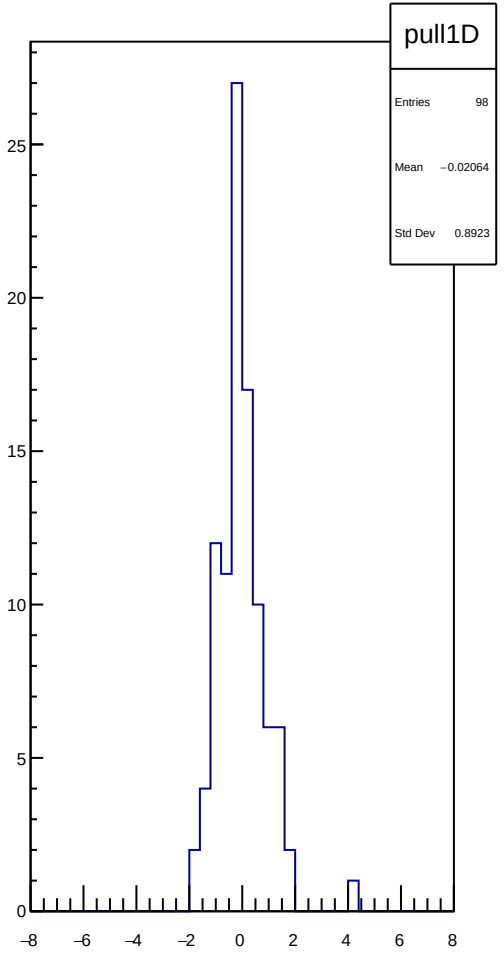

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 3909 / 97
p0 5115 ± 3.673
5800
5600
5400
5200
5000
4800
4600

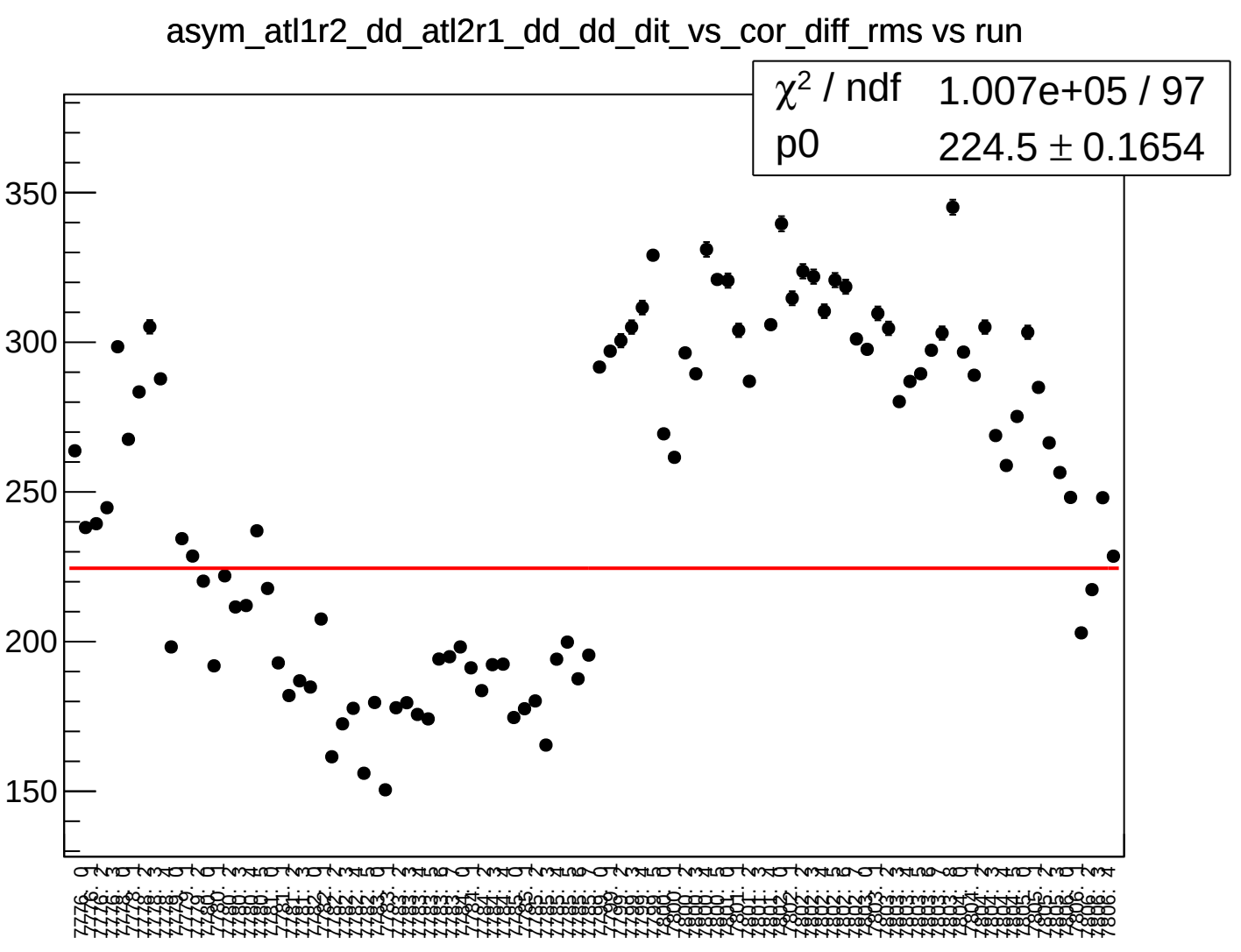

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.84 / 97
p0 3.18e−13 ± 4.145e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 98
Mean 46.21
Std Dev 38.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

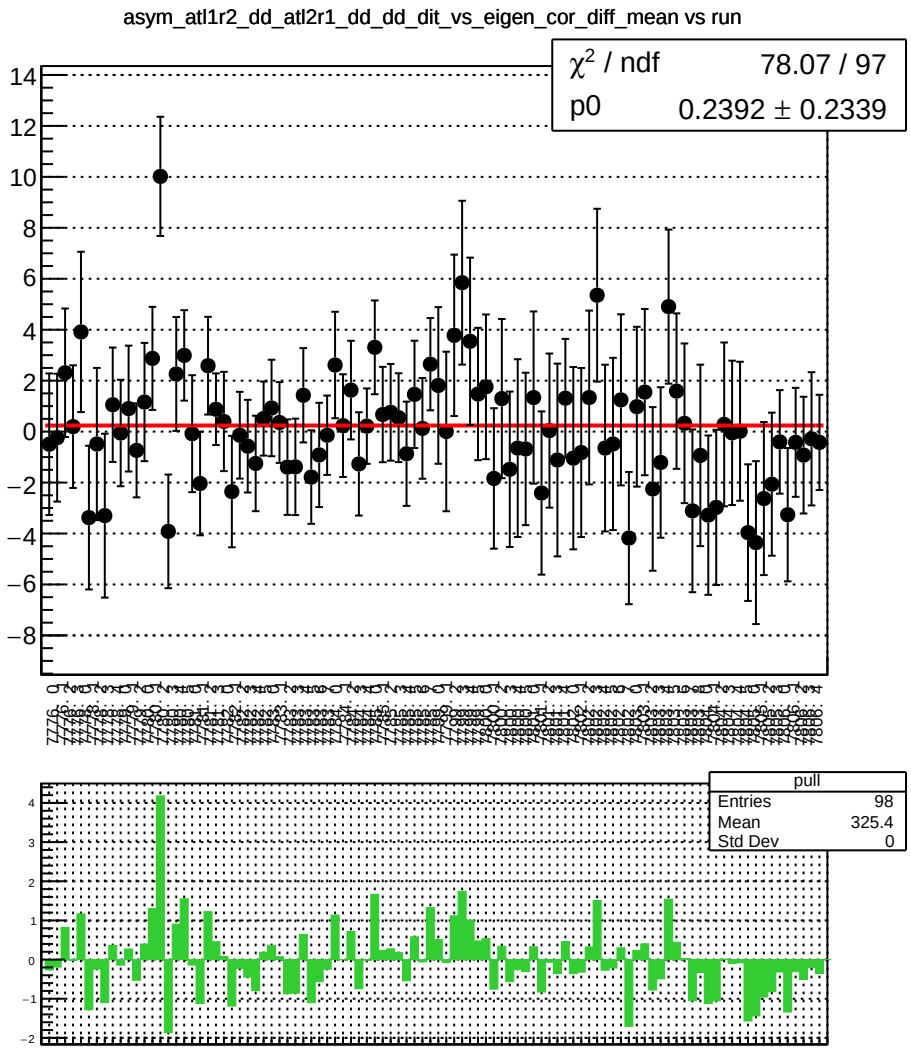

pull1D
Entries 98
Mean −0.04365
Std Dev 0.8786
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

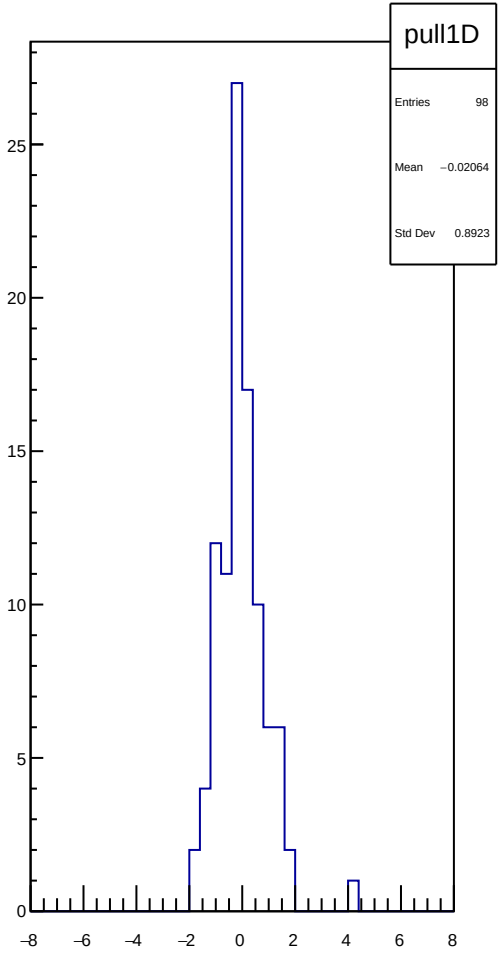

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.577e+06 / 97
p0 1.773e−10 ± 2.931e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

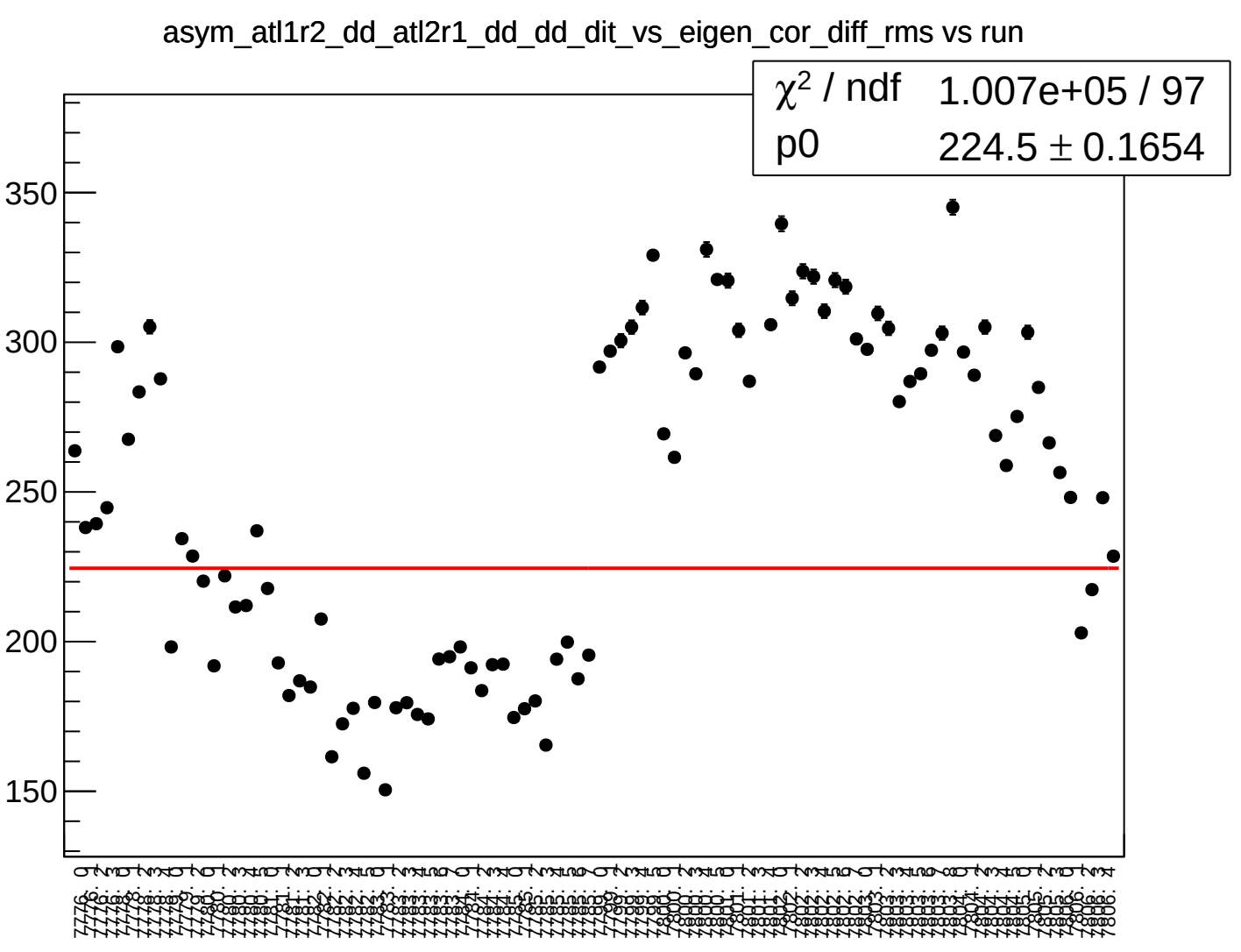

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.07 / 97
p0 0.2392 ± 0.2339
pull
Entries 98
Mean 325.4
Std Dev 0

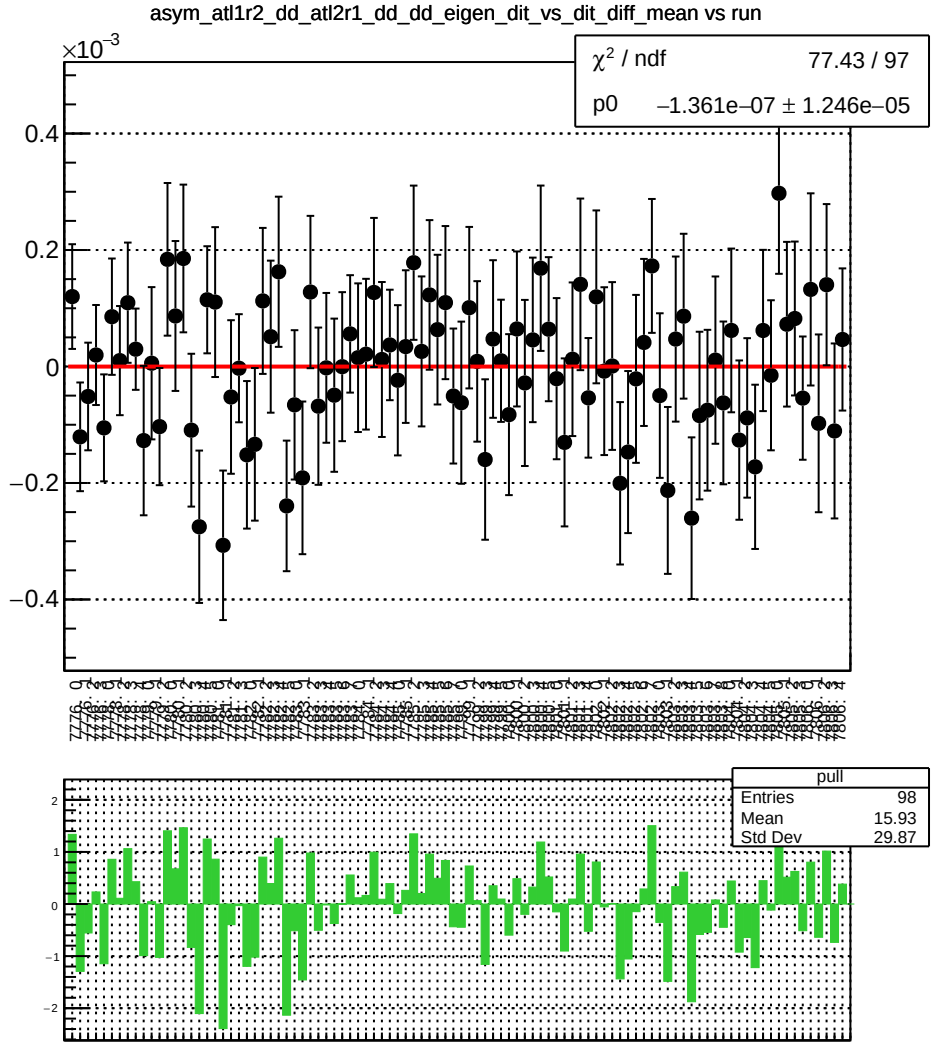

pull1D
Entries 98
Mean −0.02064
Std Dev 0.8923

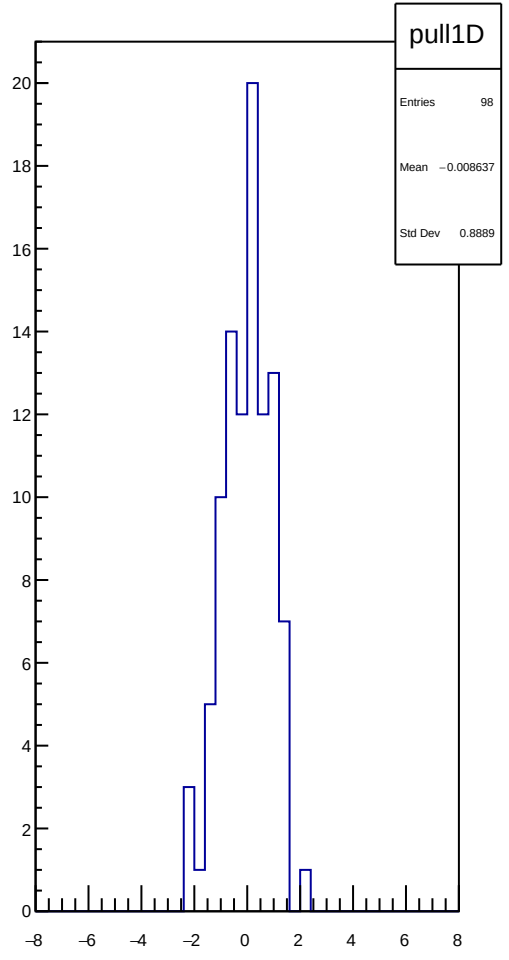

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 97
p0 224.5 ± 0.1654
350
300
250
200
150

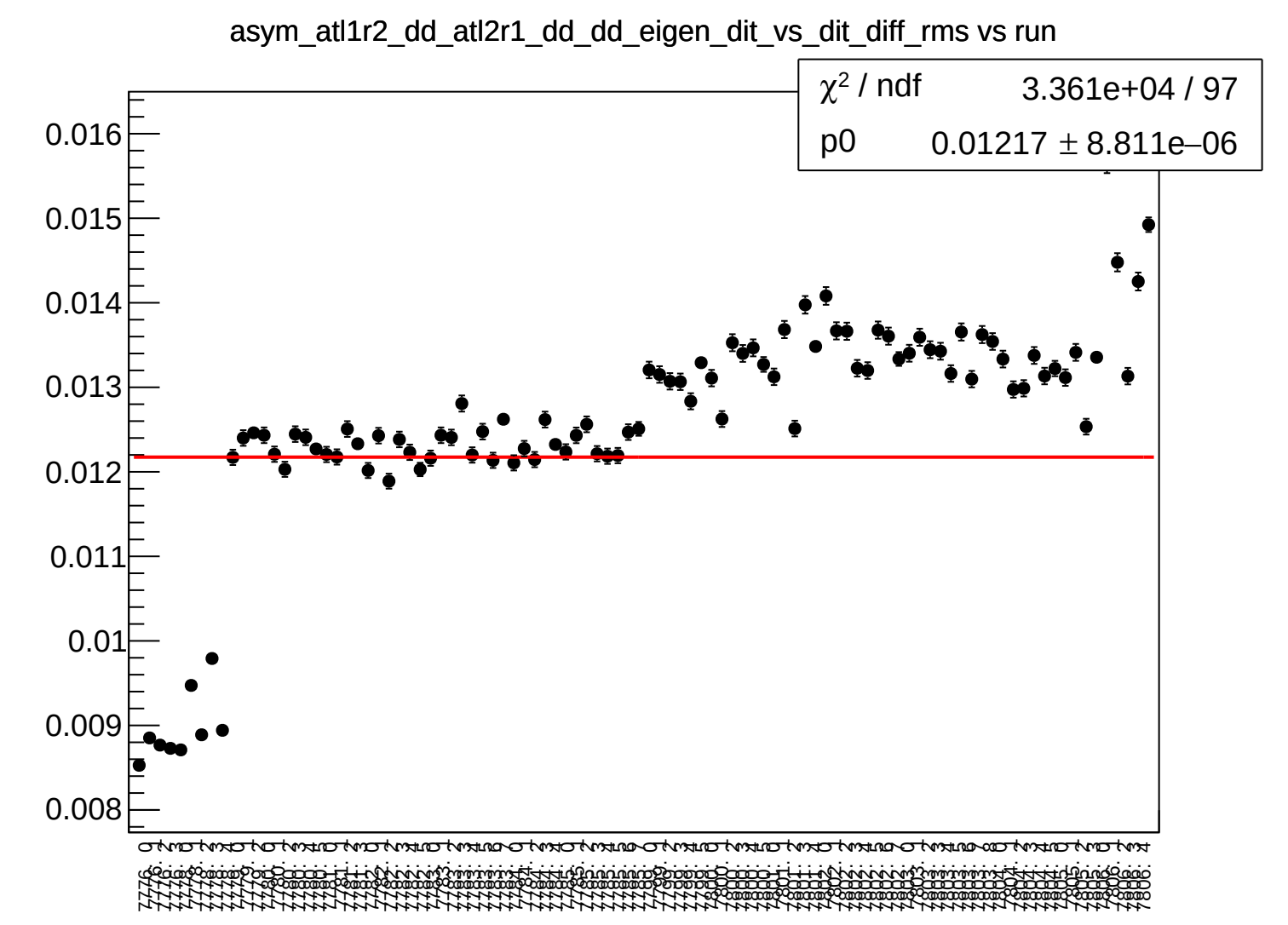

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.07 / 97
p0 0.2392 ± 0.2339
pull
Entries 98
Mean 325.4
Std Dev 0

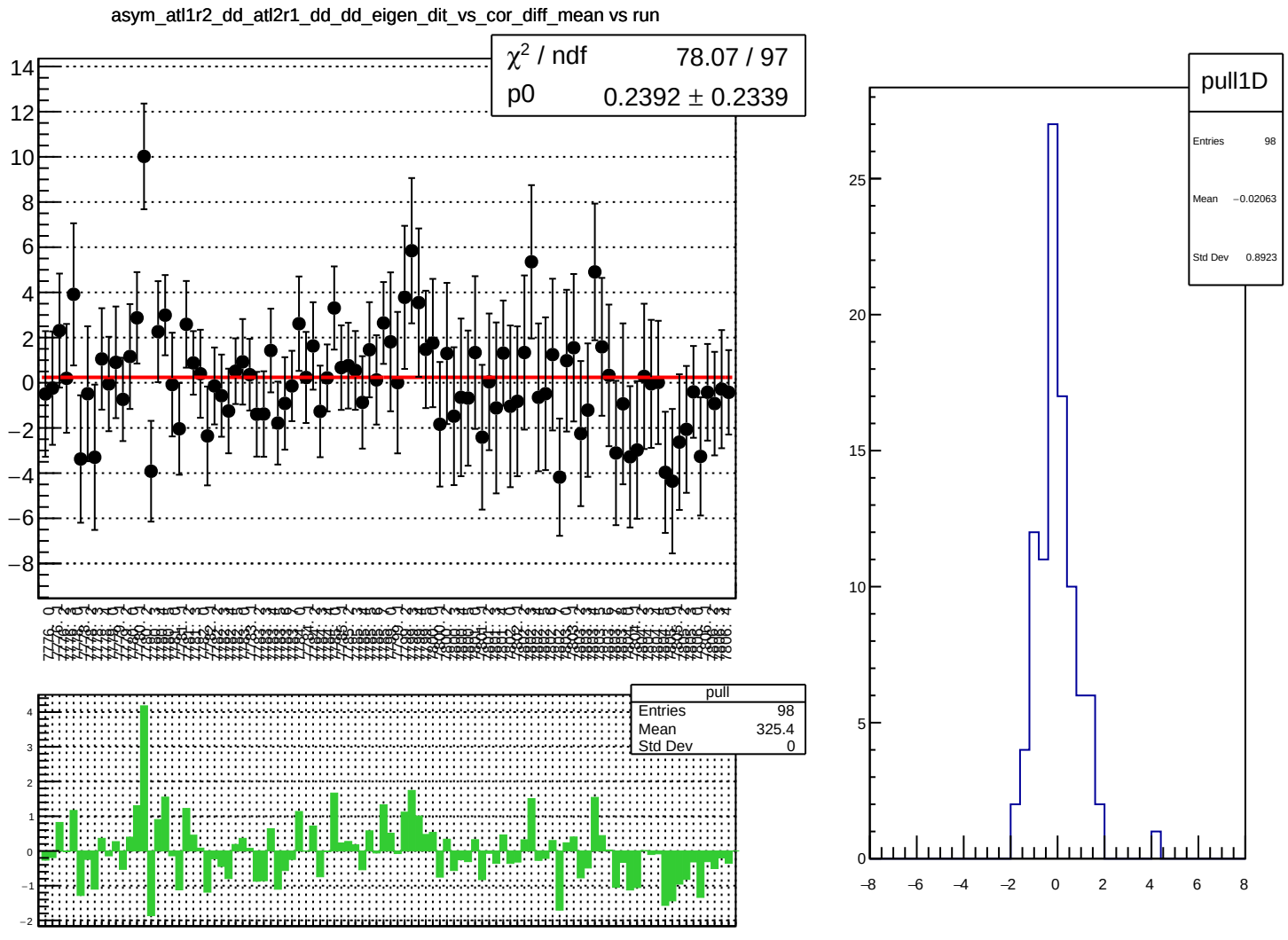

pull1D
Entries 98
Mean −0.02064
Std Dev 0.8923

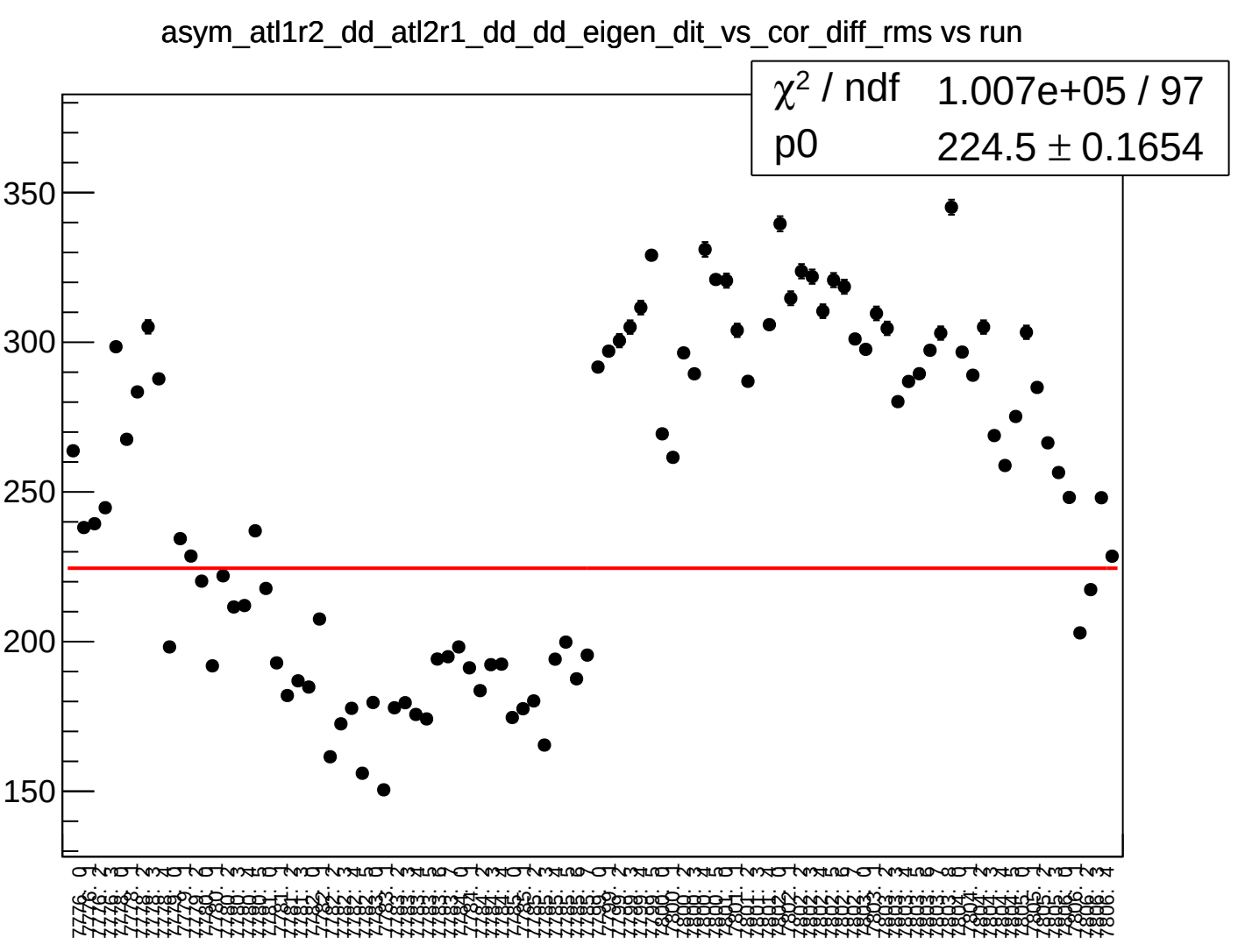

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 97
p0 224.5 ± 0.1654
350
300
250
200
150

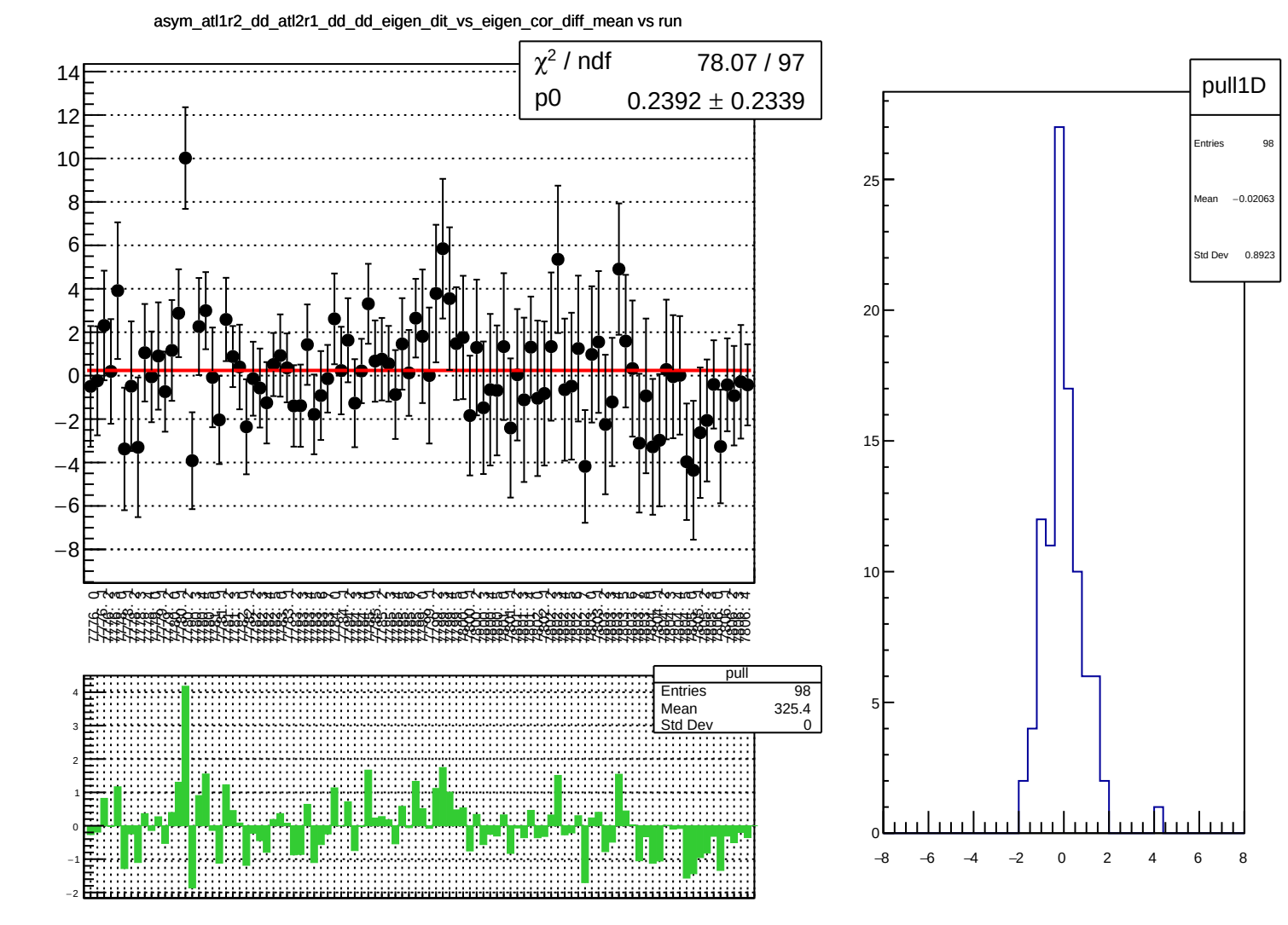

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 77.43 / 97
p0 −1.361e−07 ± 1.246e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 98
Mean 15.93
Std Dev 29.87
2
1
0
−1
−2

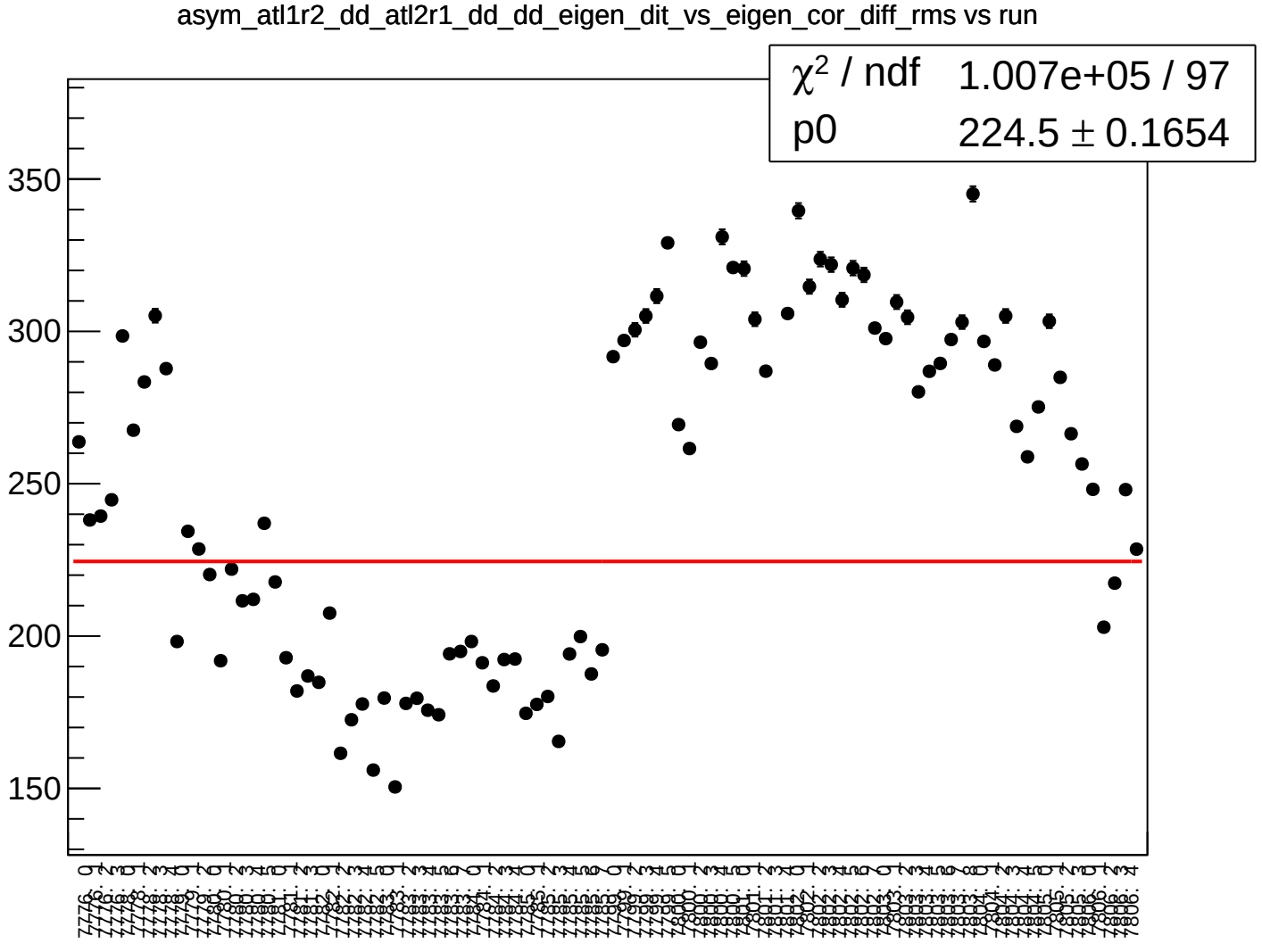

pull1D
Entries 98
Mean −0.008637
Std Dev 0.8889
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

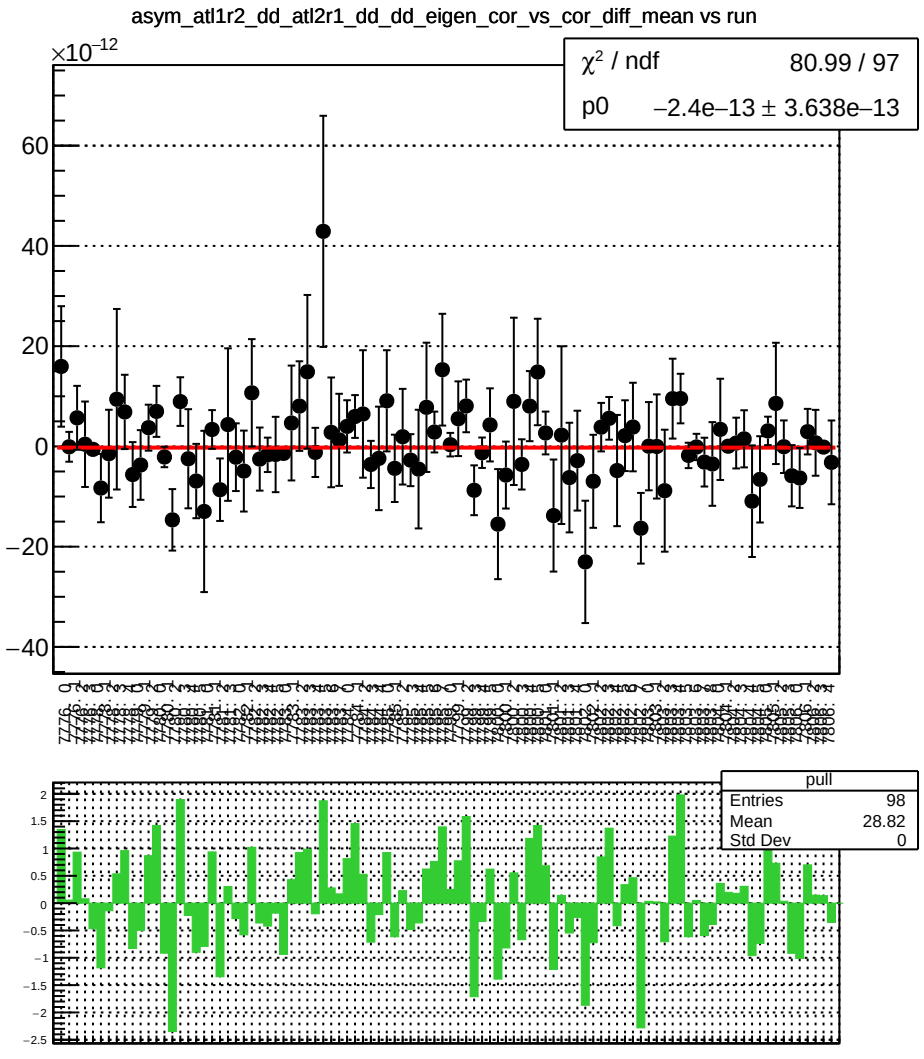

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.361e+04 / 97
p0 0.01217 ± 8.811e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

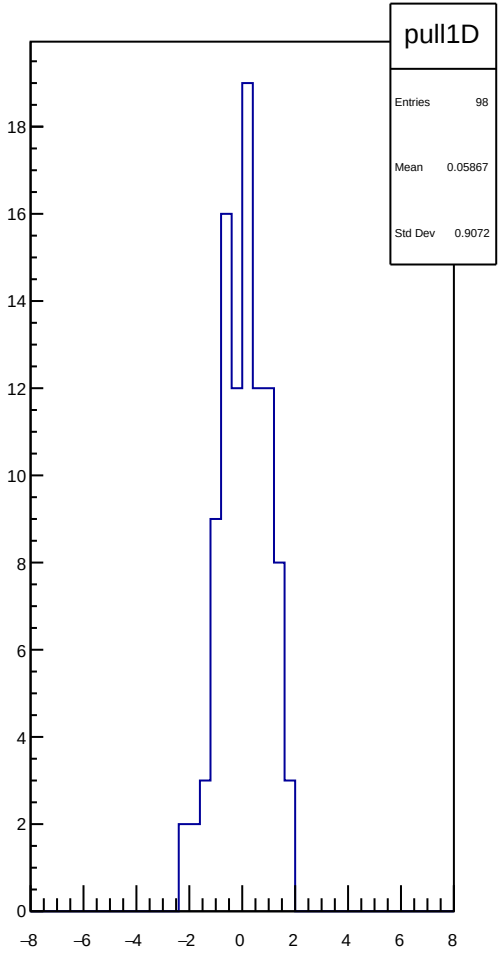

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.07 / 97
p0 0.2392 ± 0.2339
pull
Entries 98
Mean 325.4
Std Dev 0
pull1D
Entries 98
Mean −0.02063
Std Dev 0.8923

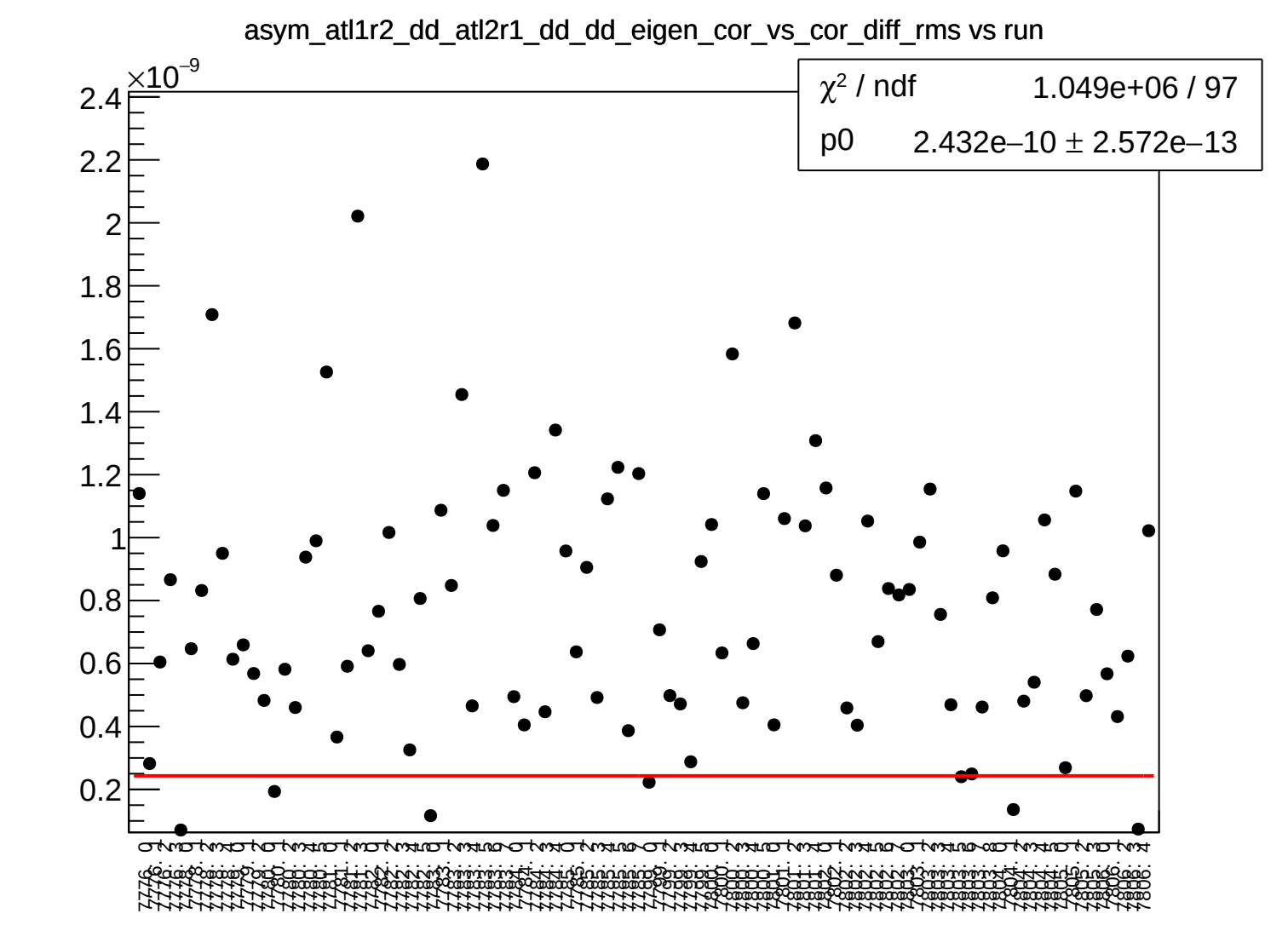

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 97
p0 224.5 ± 0.1654
350
300
250
200
150

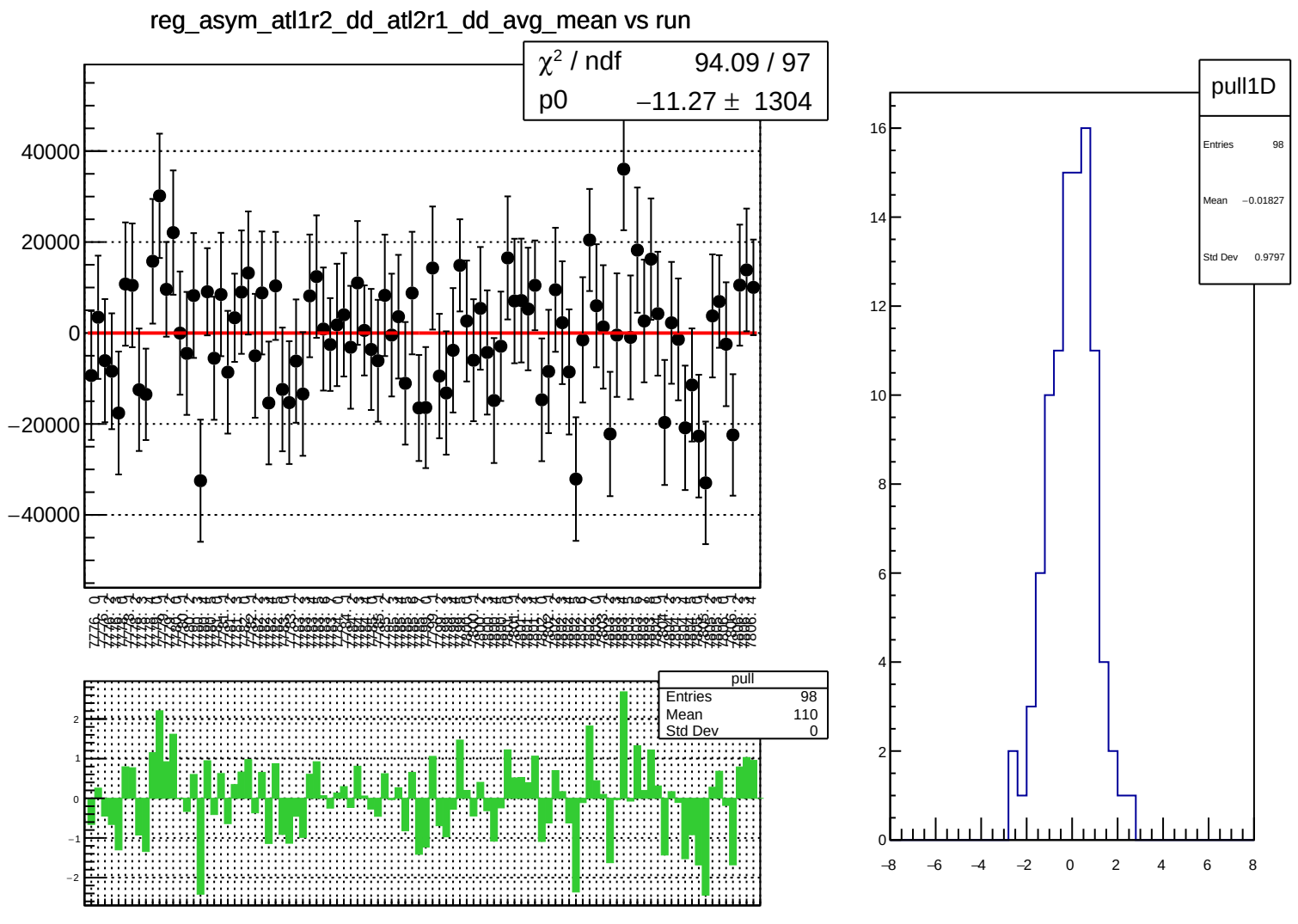

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.07 / 97
p0 0.2392 ± 0.2339
pull
Entries 98
Mean 325.4
Std Dev 0
pull1D
Entries 98
Mean −0.02063
Std Dev 0.8923

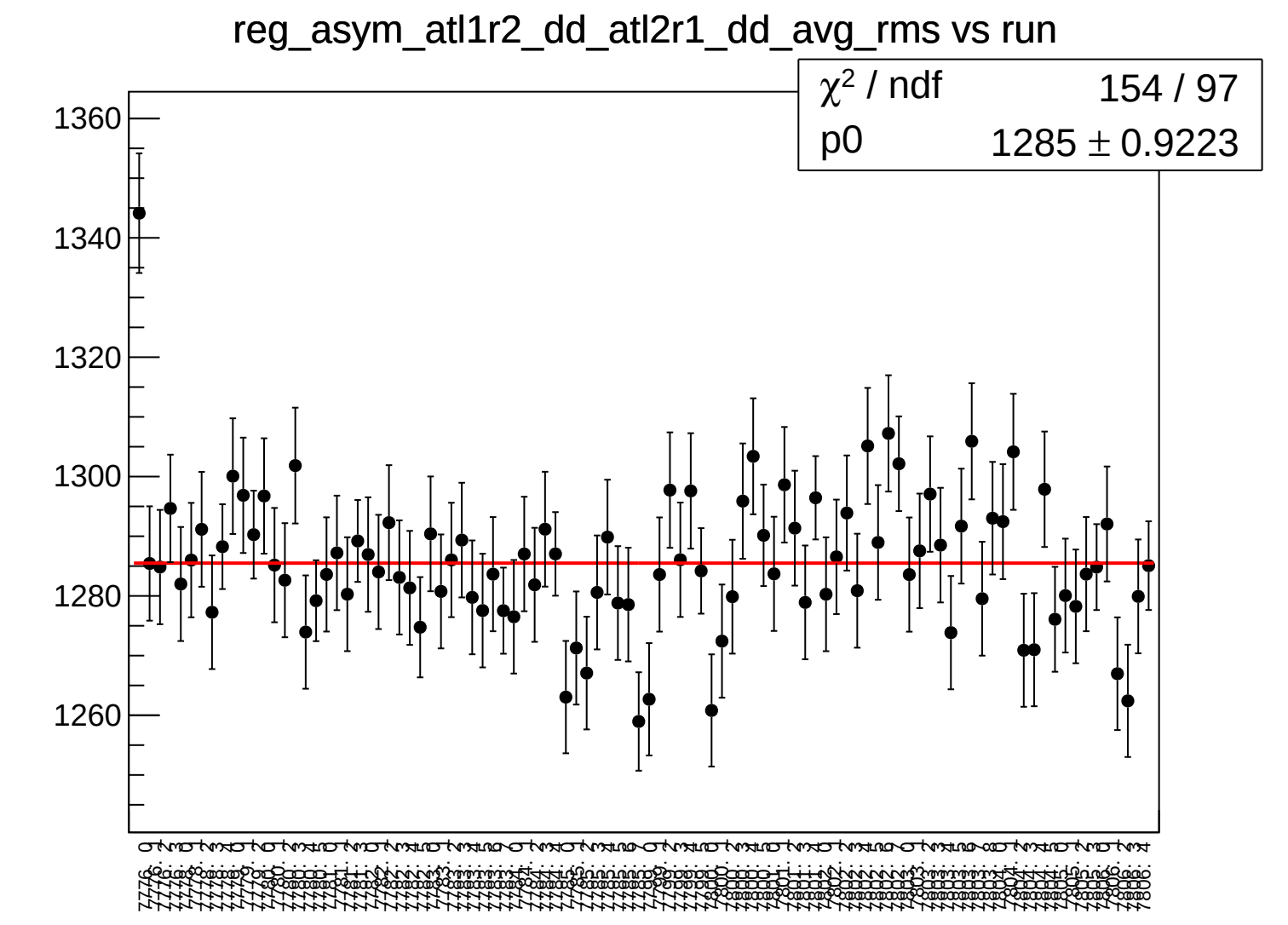

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 97
p0 224.5 ± 0.1654
350
300
250
200
150

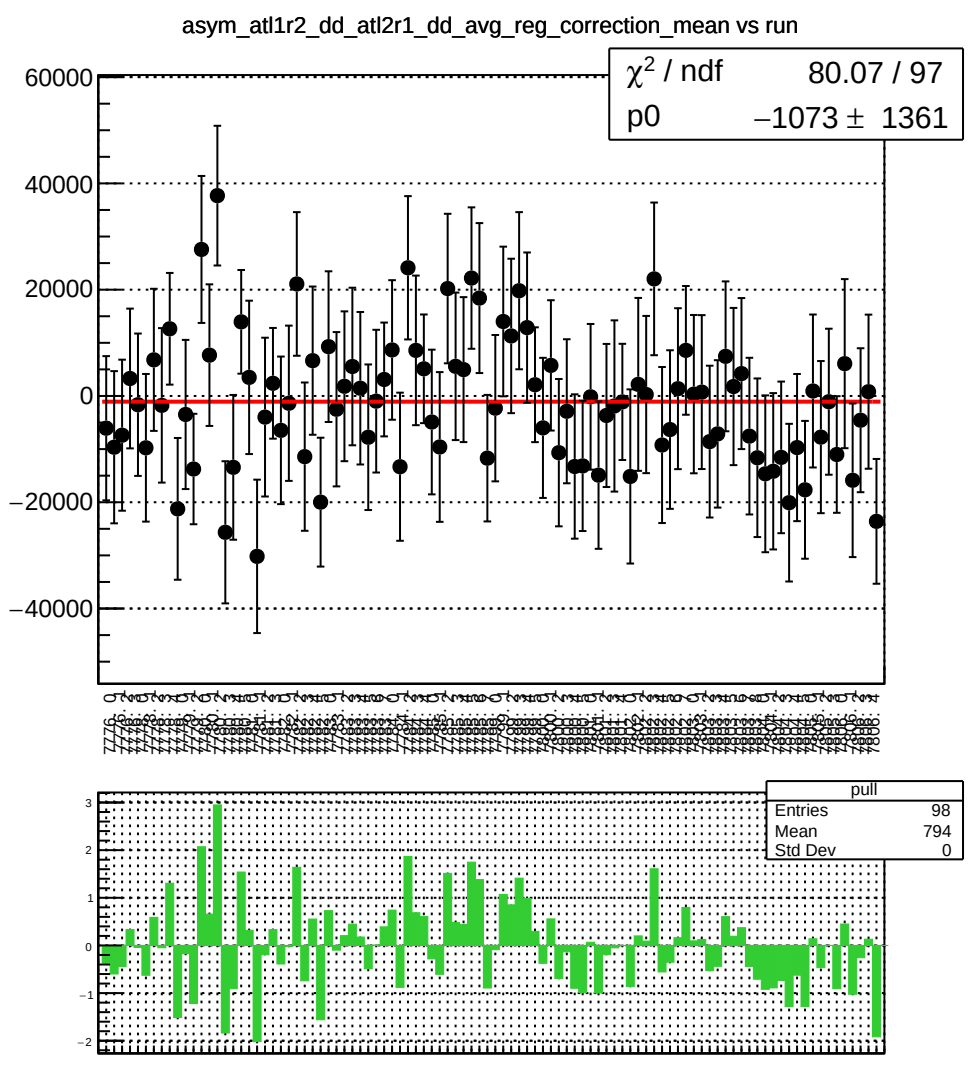

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.99 / 97
p0 −2.4e−13 ± 3.638e−13
60
40
20
0
−20
−40
pull
Entries 98
Mean 28.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

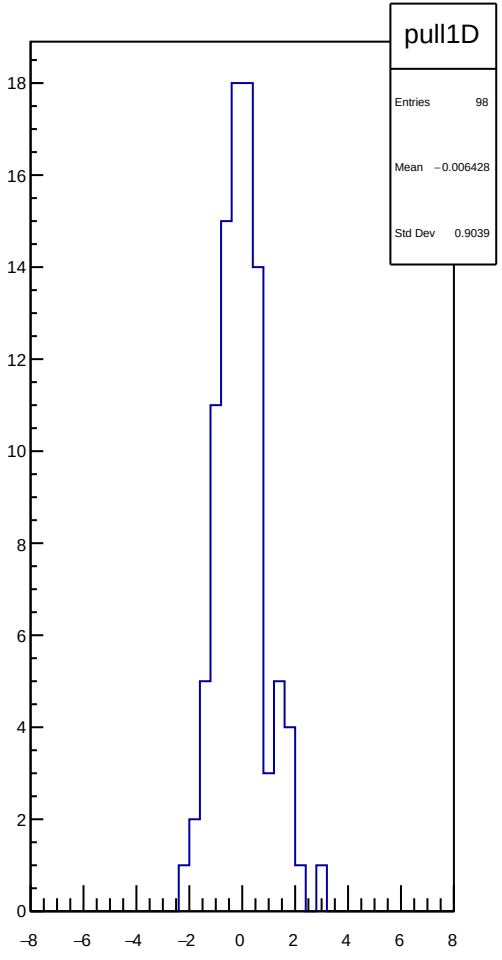

pull1D
Entries 98
Mean 0.05867
Std Dev 0.9072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

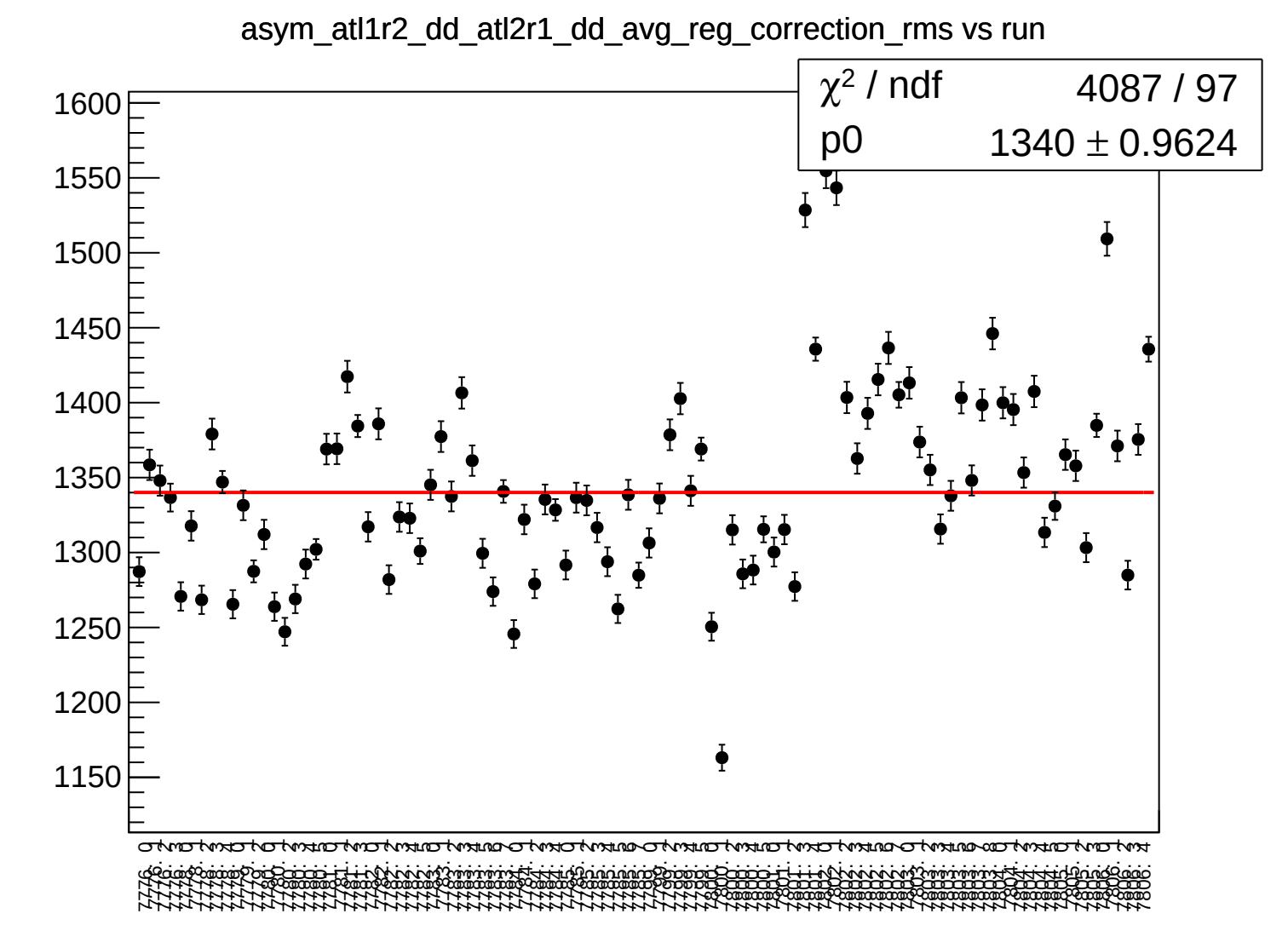

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.049e+06 / 97
p0 2.432e−10 ± 2.572e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

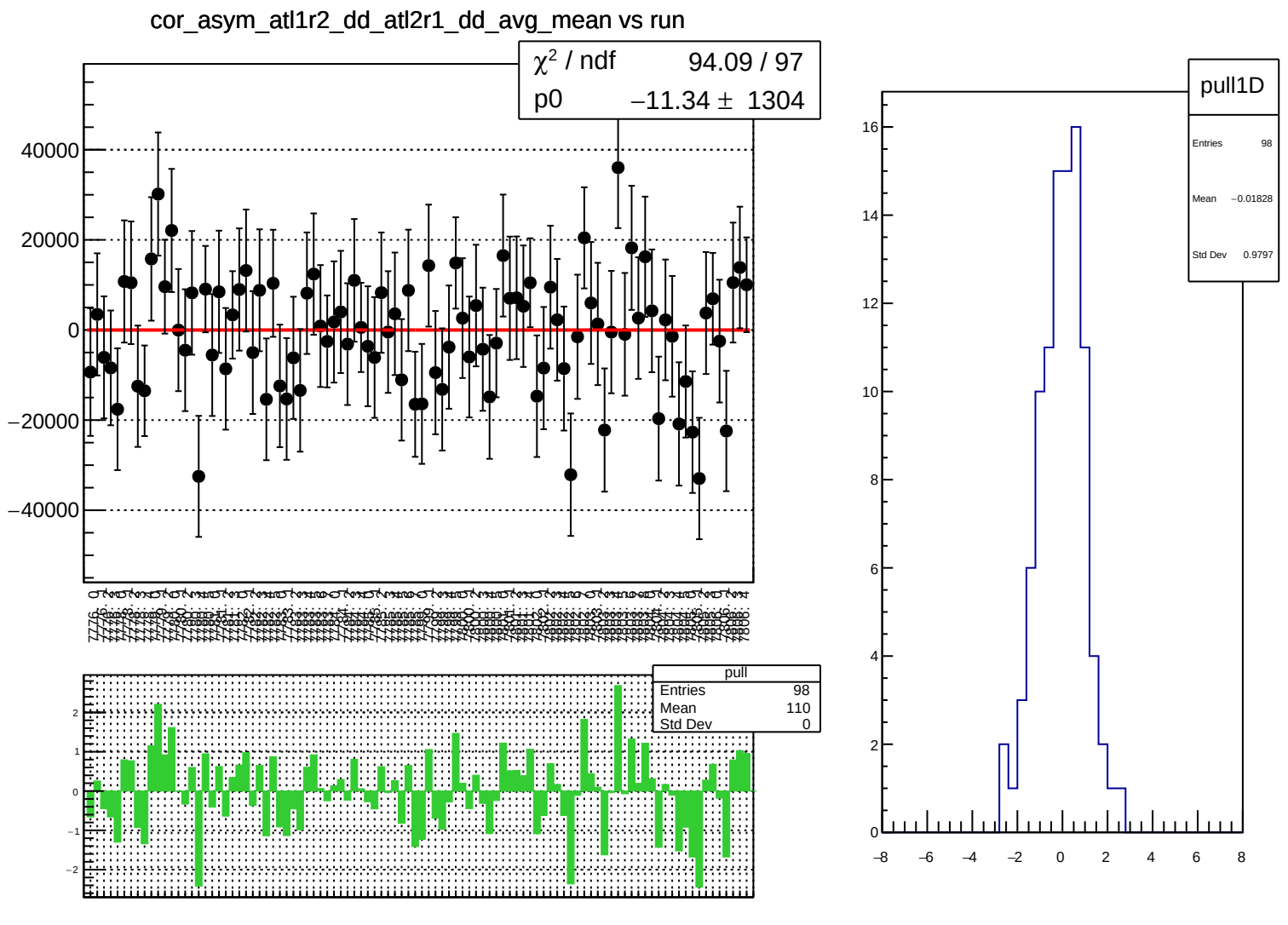

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 94.09 / 97
p0 −11.27 ± 1304
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 110
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01827
Std Dev 0.9797
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

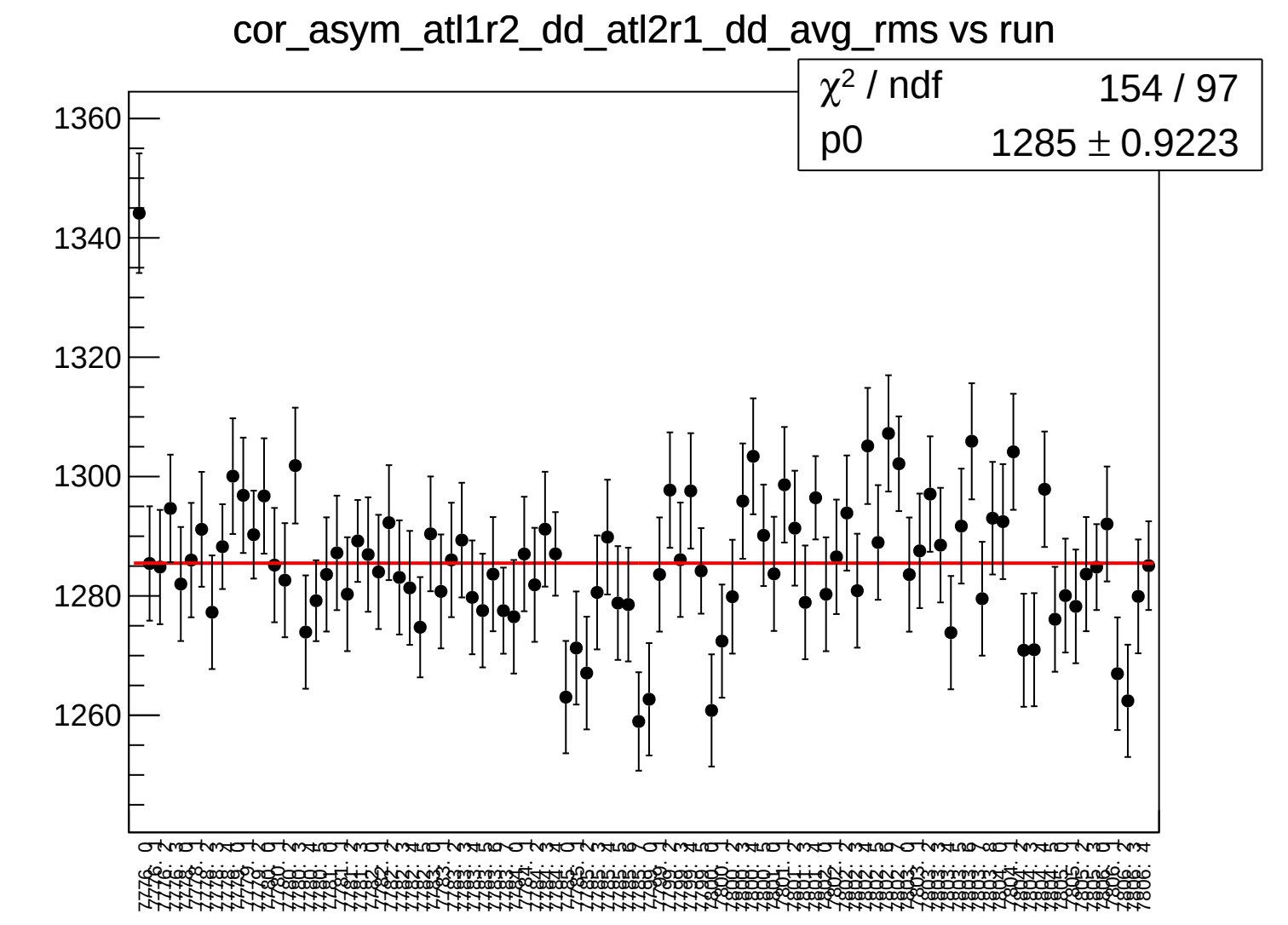

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 154 / 97
p0 1285 ± 0.9223
1360
1340
1320
1300
1280
1260

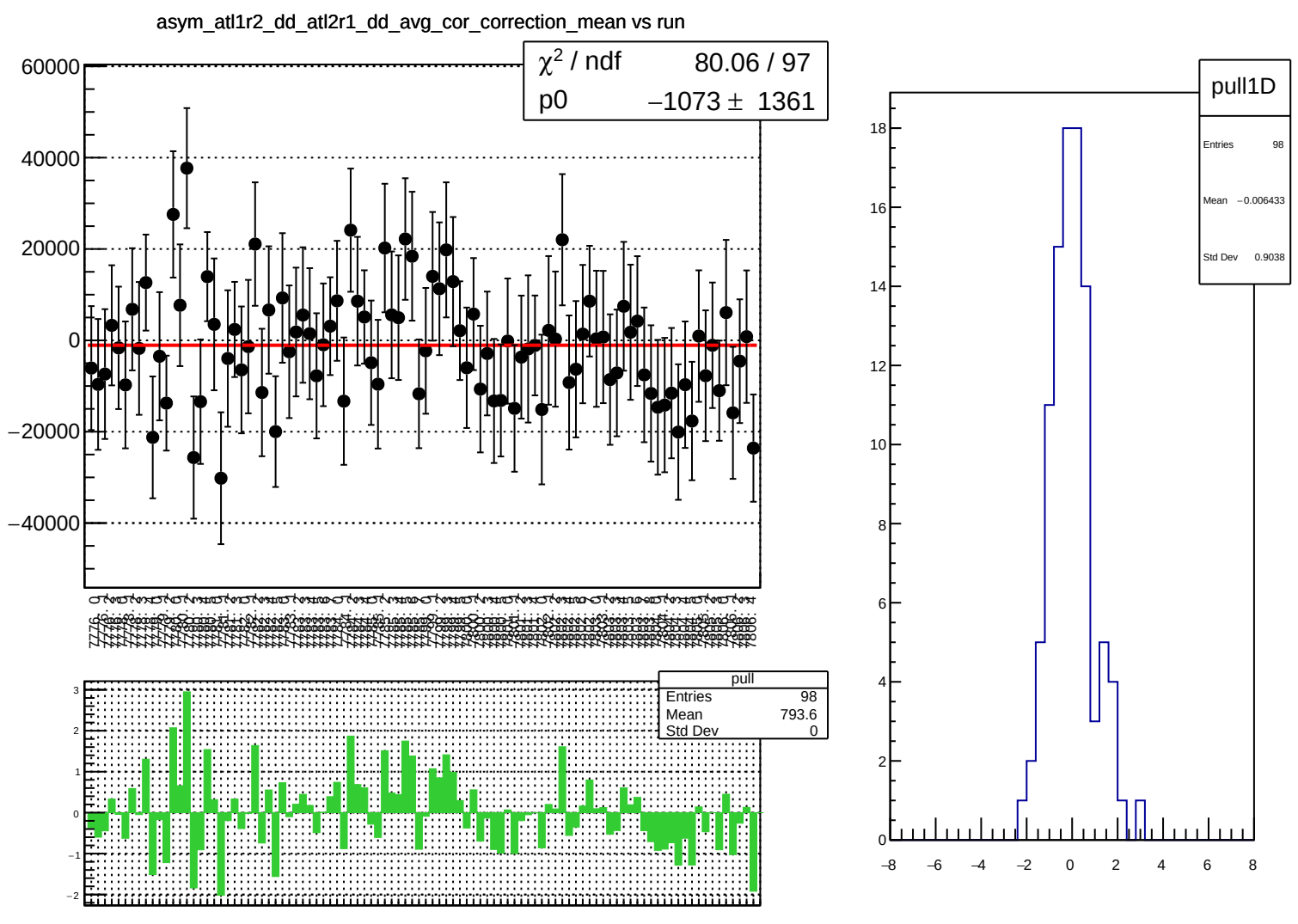

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 80.07 / 97
p0 −1073 ± 1361
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 794
Std Dev 0
3
2
1
0
−1
−2

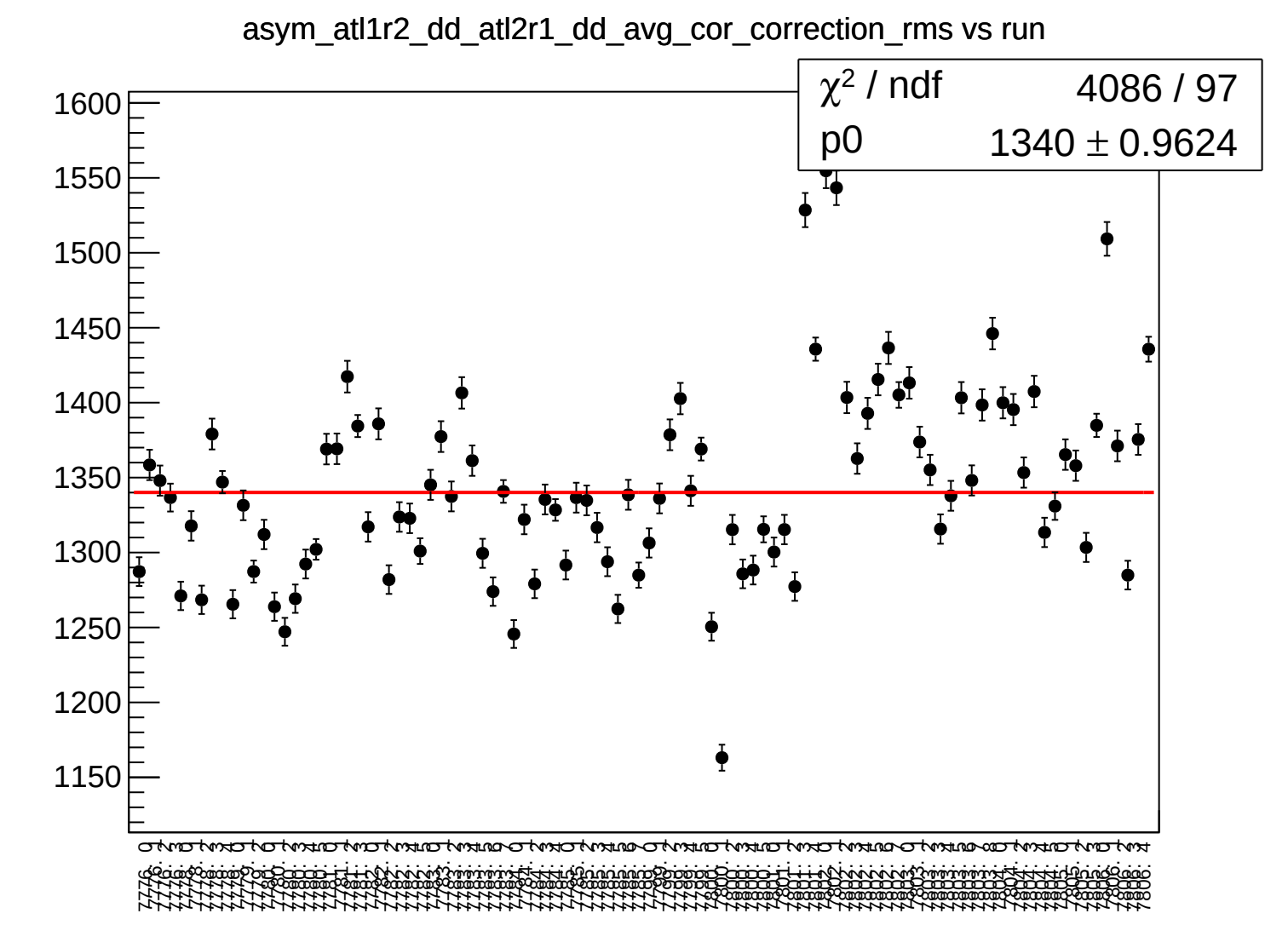

pull1D
Entries 98
Mean −0.006428
Std Dev 0.9039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

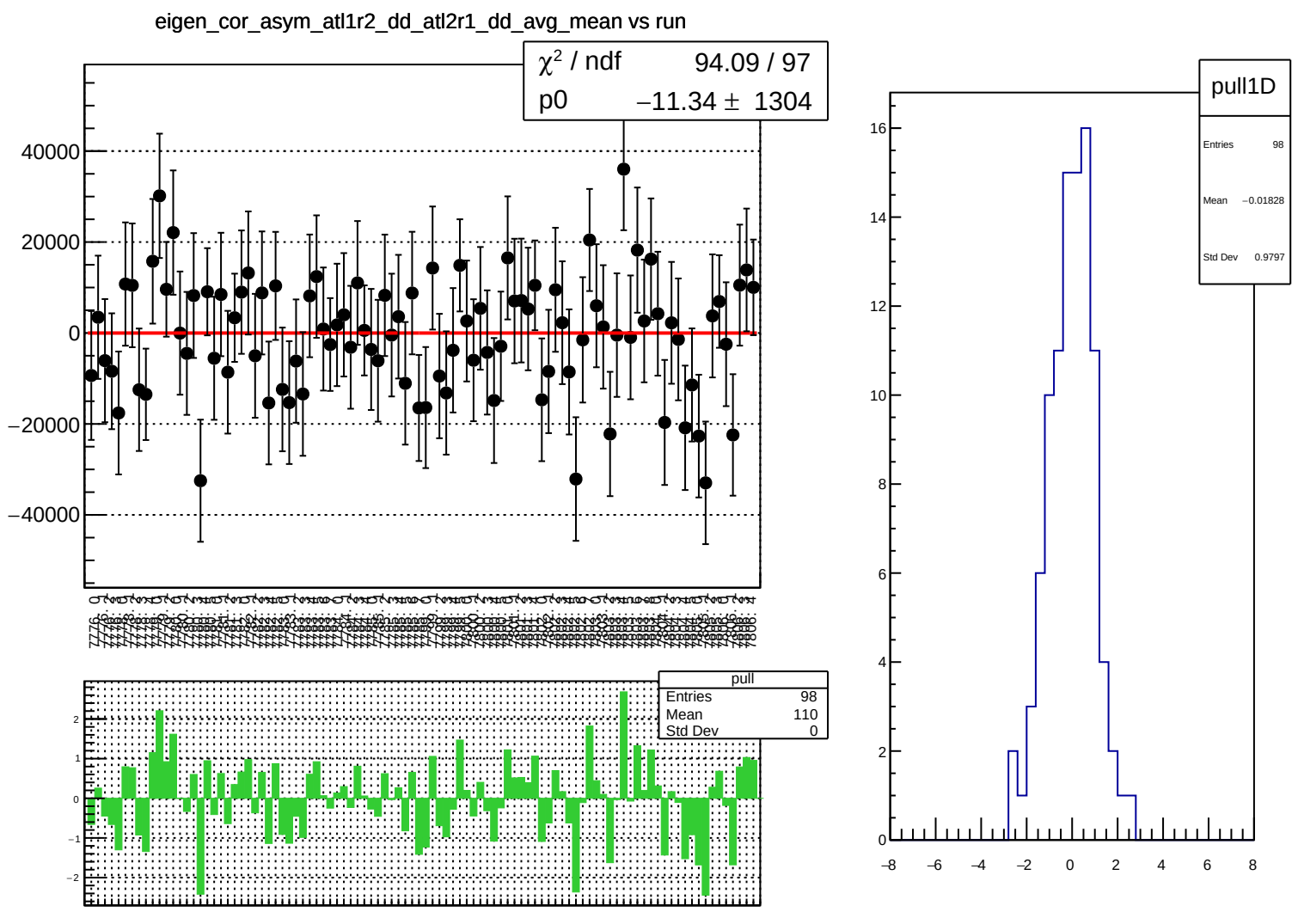

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 4087 / 97
p0 1340 ± 0.9624
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

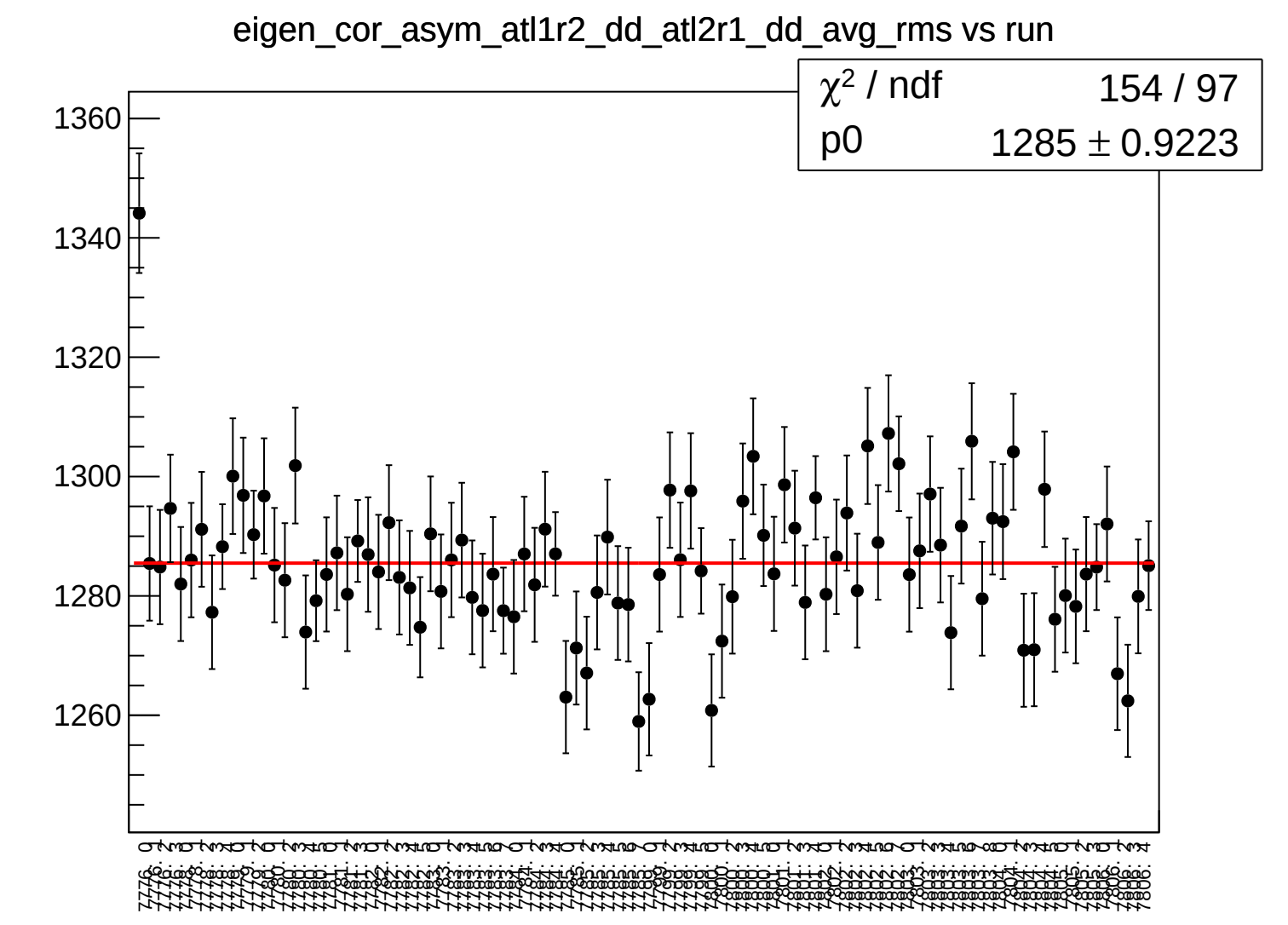

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 94.09 / 97
p0 −11.34 ± 1304
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 110
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01828
Std Dev 0.9797
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

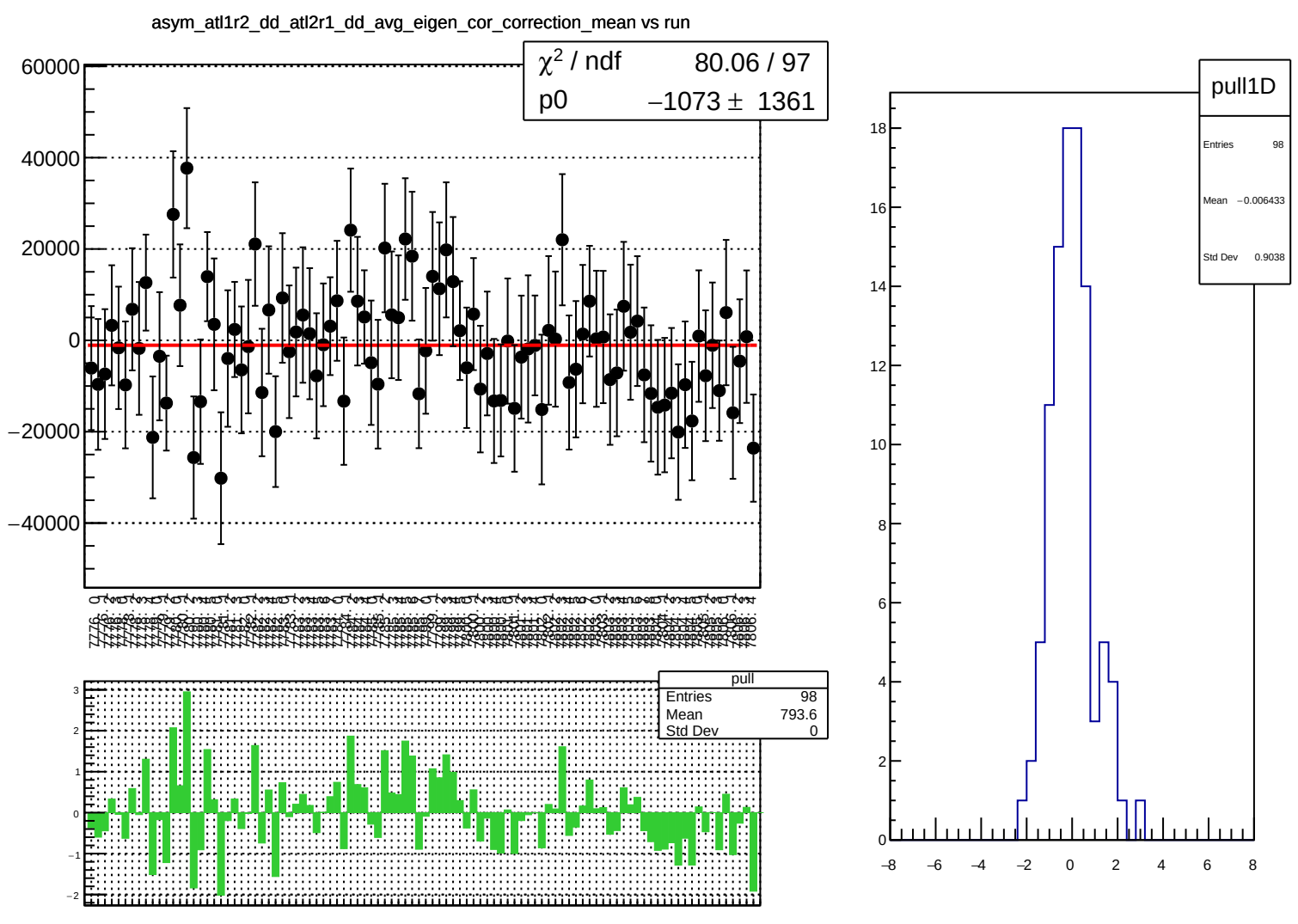

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 154 / 97
p0 1285 ± 0.9223
1360
1340
1320
1300
1280
1260

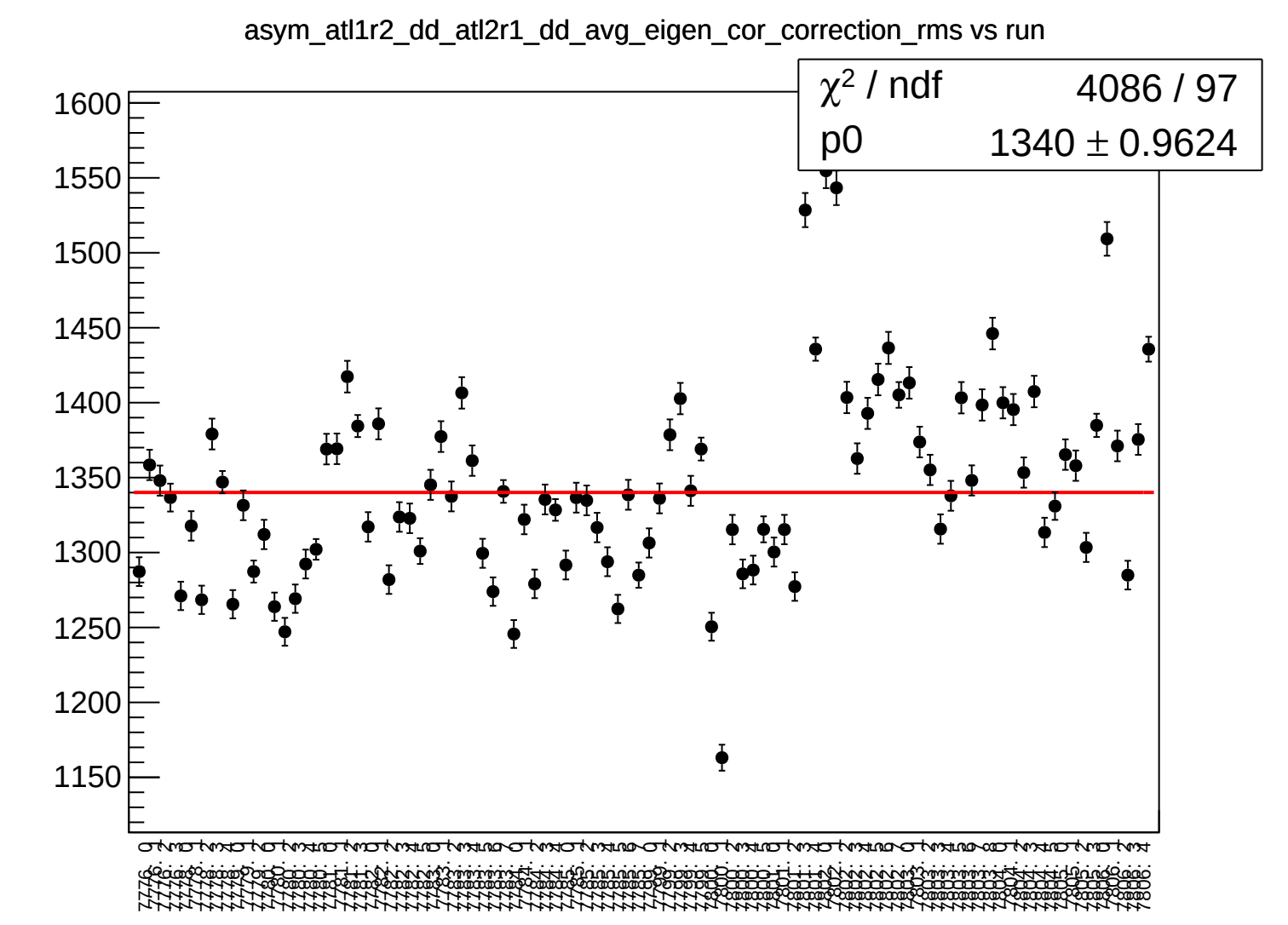

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 80.06 / 97
p0 −1073 ± 1361
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 793.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.006433
Std Dev 0.9038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

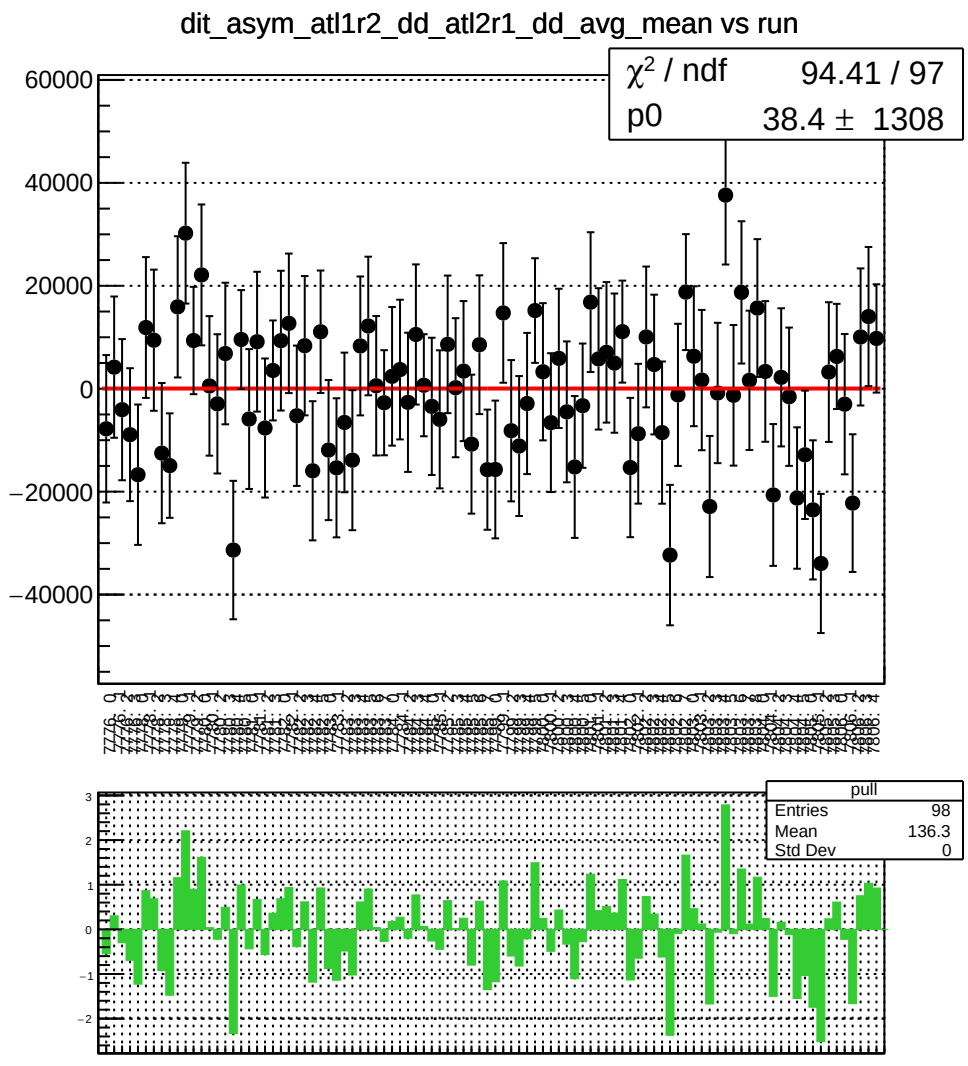

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 4086 / 97
p0 1340 ± 0.9624
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

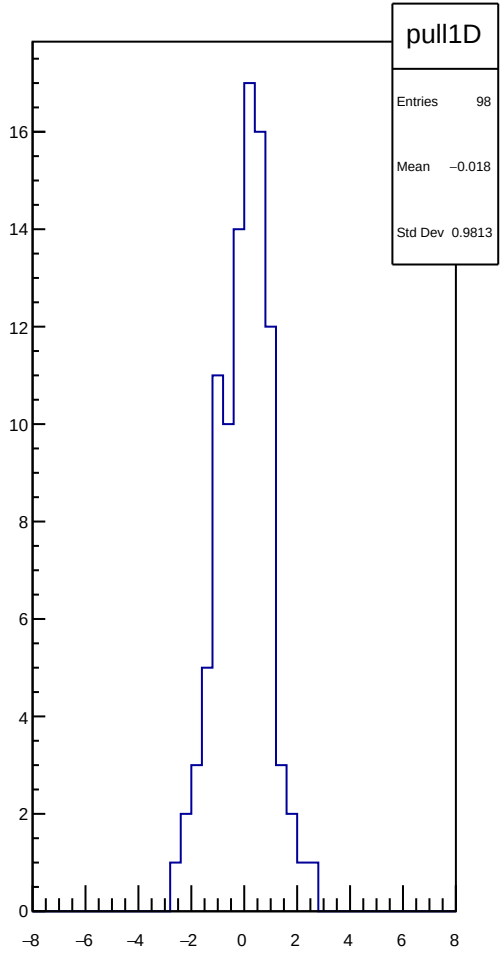

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 94.09 / 97
p0 −11.34 ± 1304
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 110
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01828
Std Dev 0.9797
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

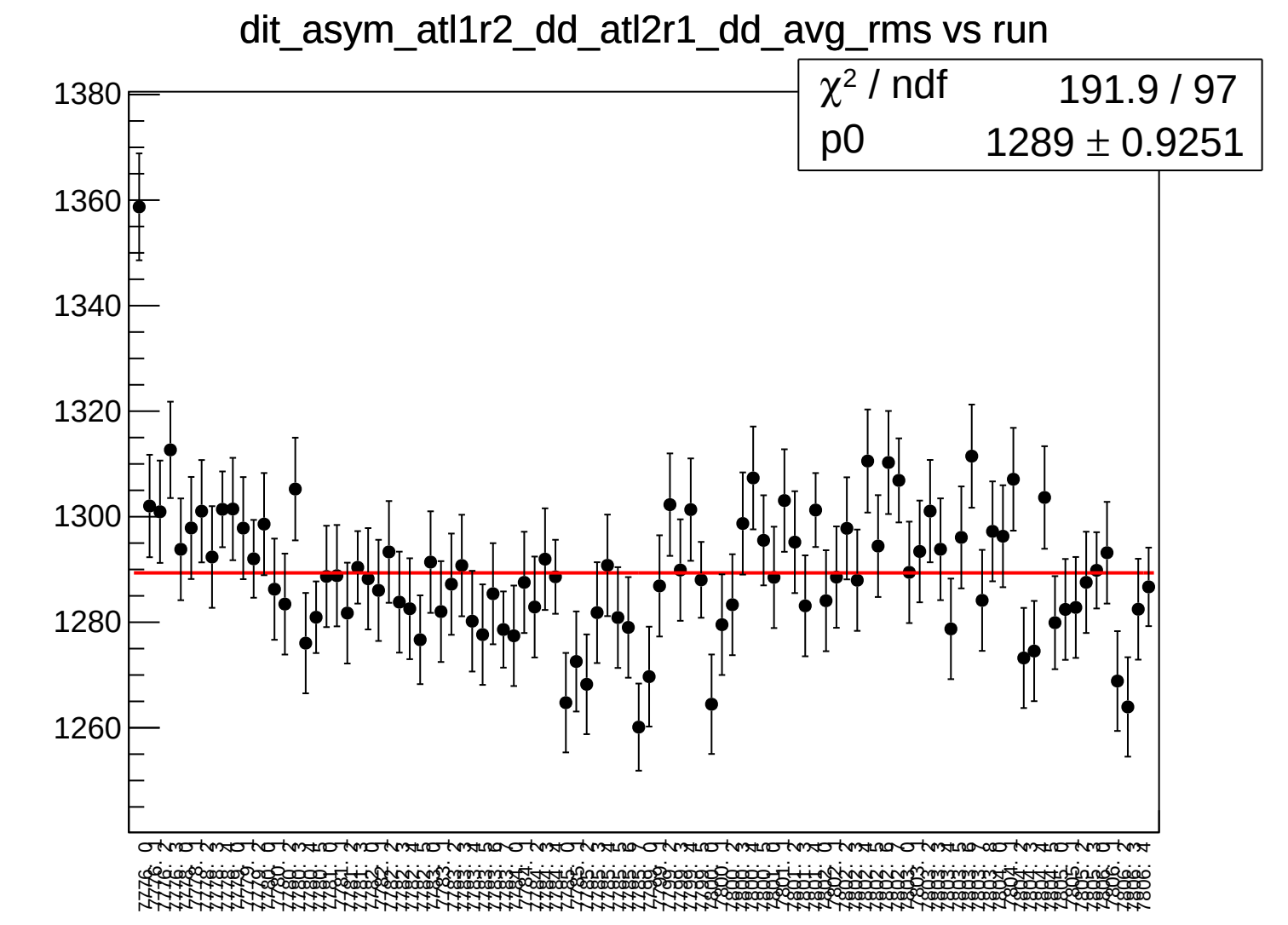

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 154 / 97
p0 1285 ± 0.9223
1360
1340
1320
1300
1280
1260

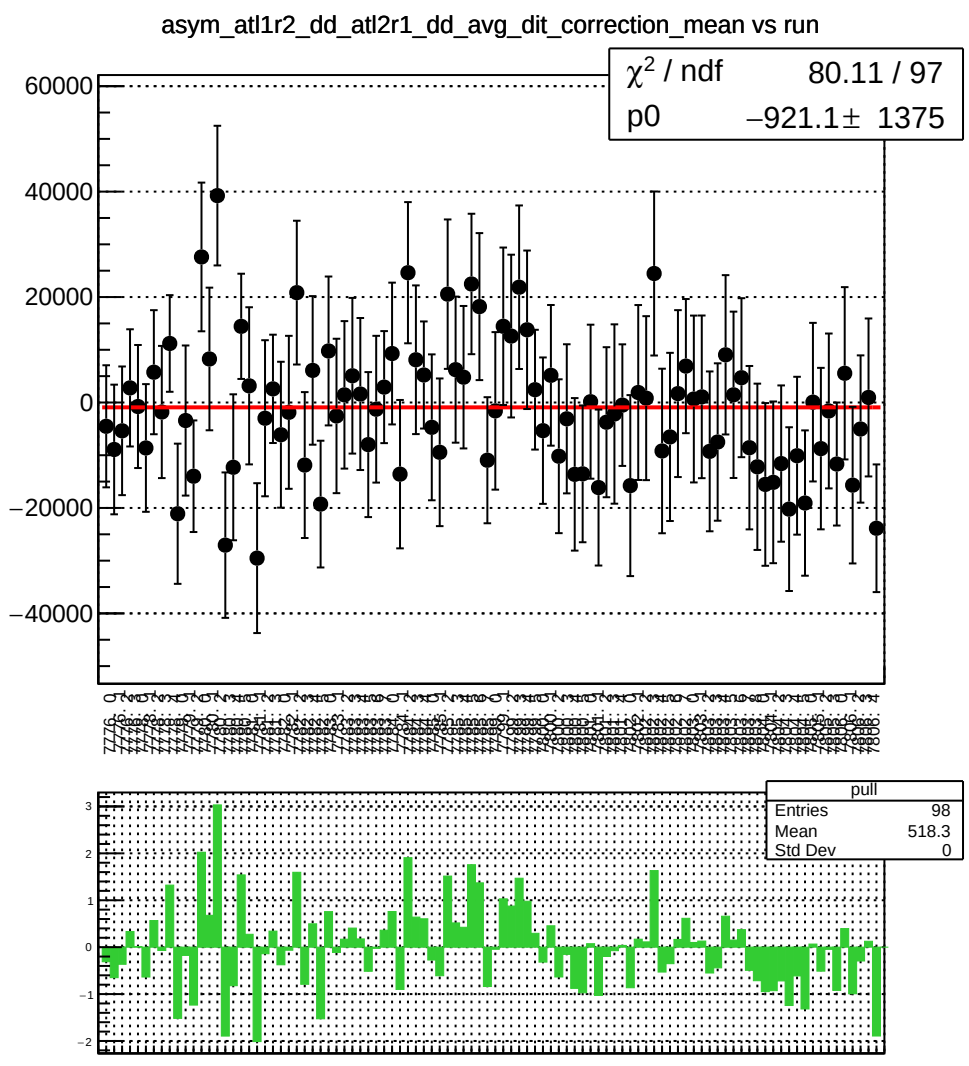

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.06 / 97
p0 −1073 ± 1361
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 793.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.006433
Std Dev 0.9038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

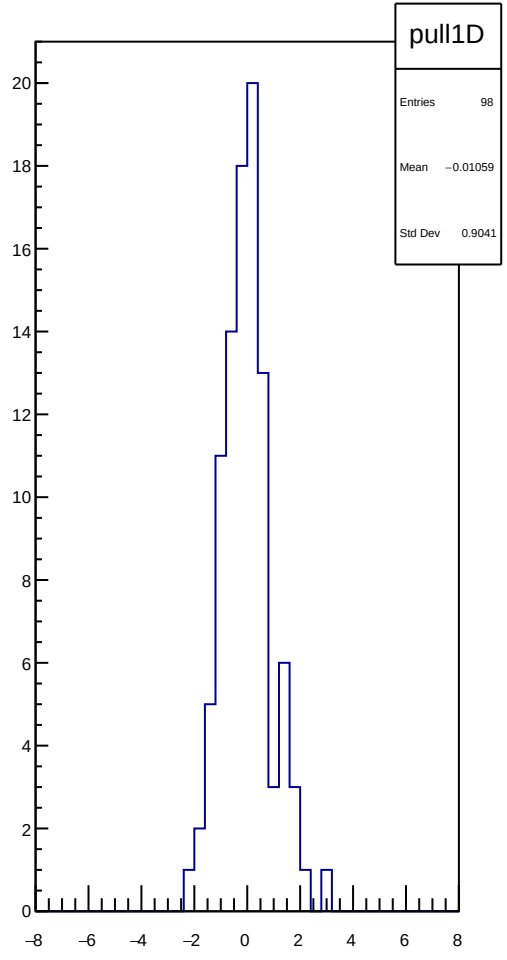

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4086 / 97
p0 1340 ± 0.9624
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

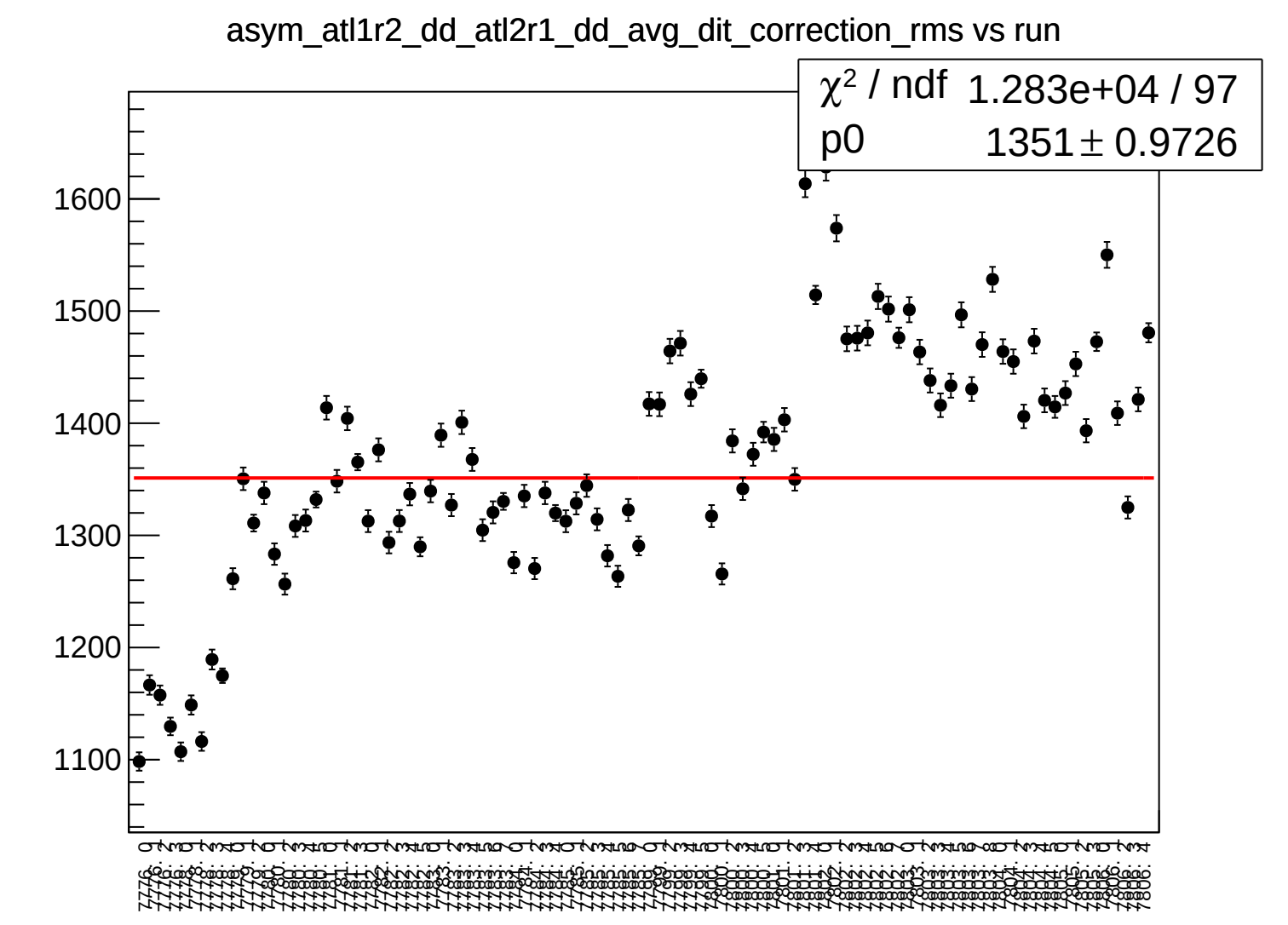

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 94.41 / 97
p0 38.4 ± 1308
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 136.3
Std Dev 0
3
2
1
0
−1
−2

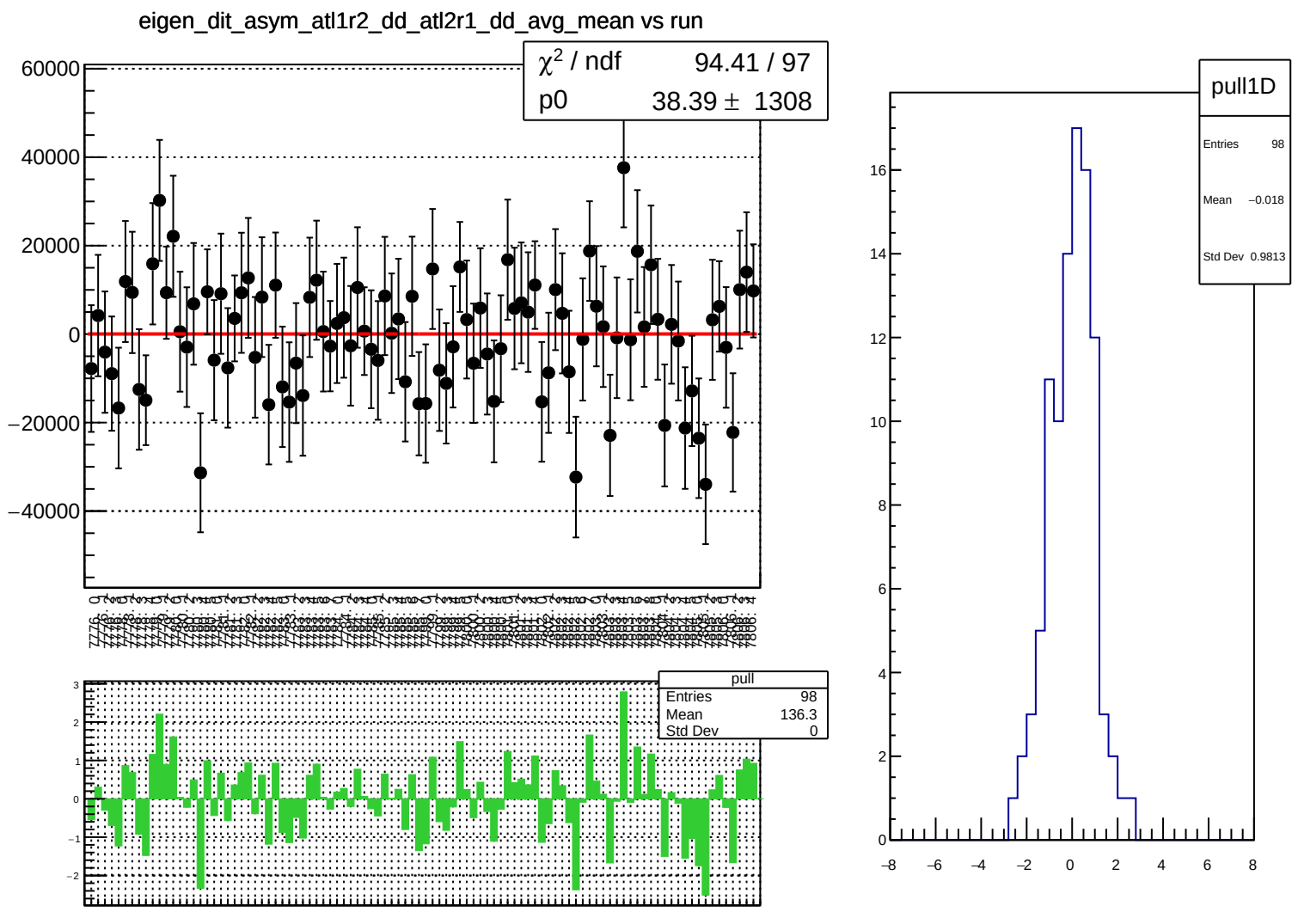

pull1D
Entries 98
Mean −0.018
Std Dev 0.9813
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

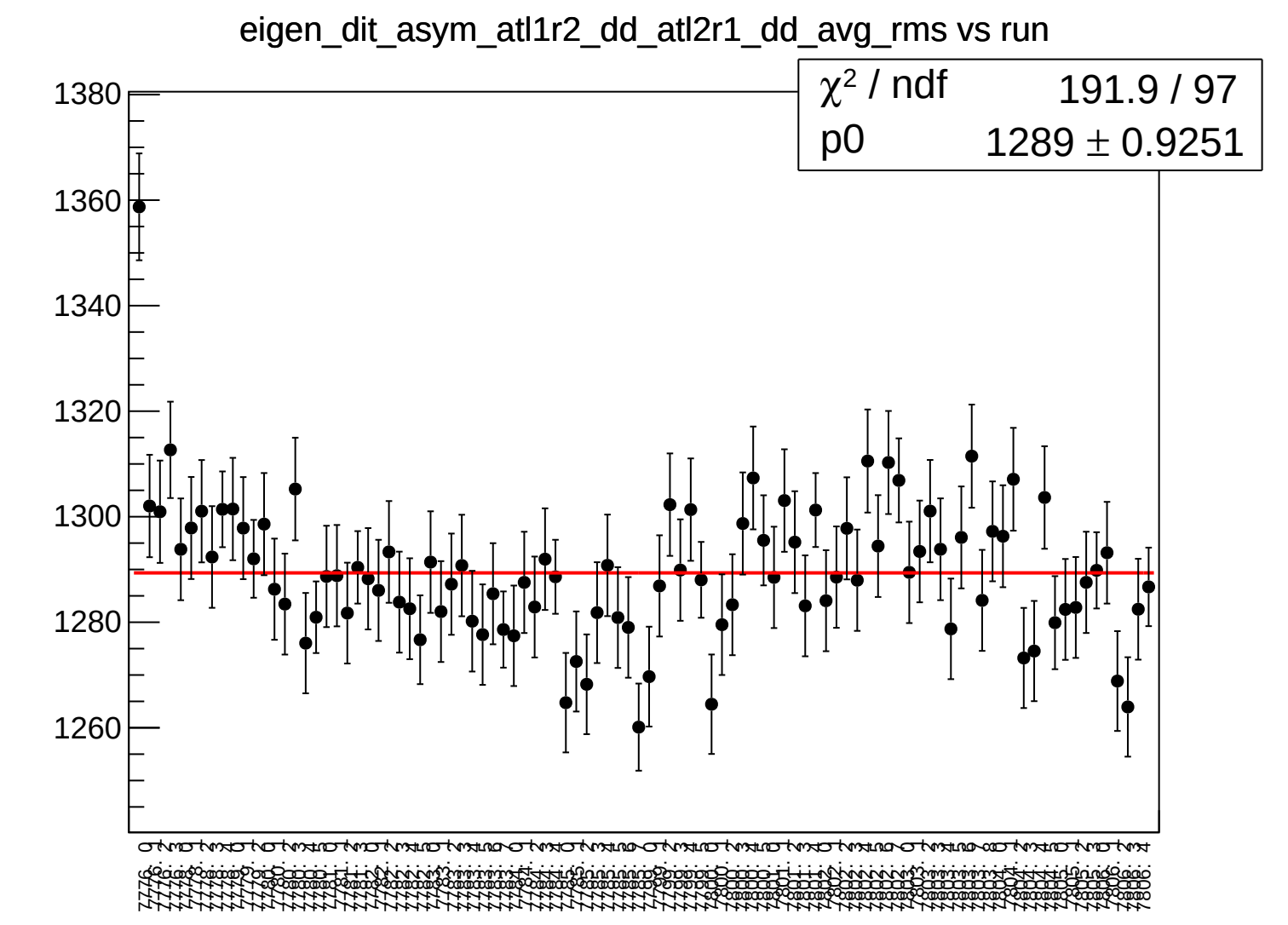

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 191.9 / 97
p0 1289 ± 0.9251
1380
1360
1340
1320
1300
1280
1260

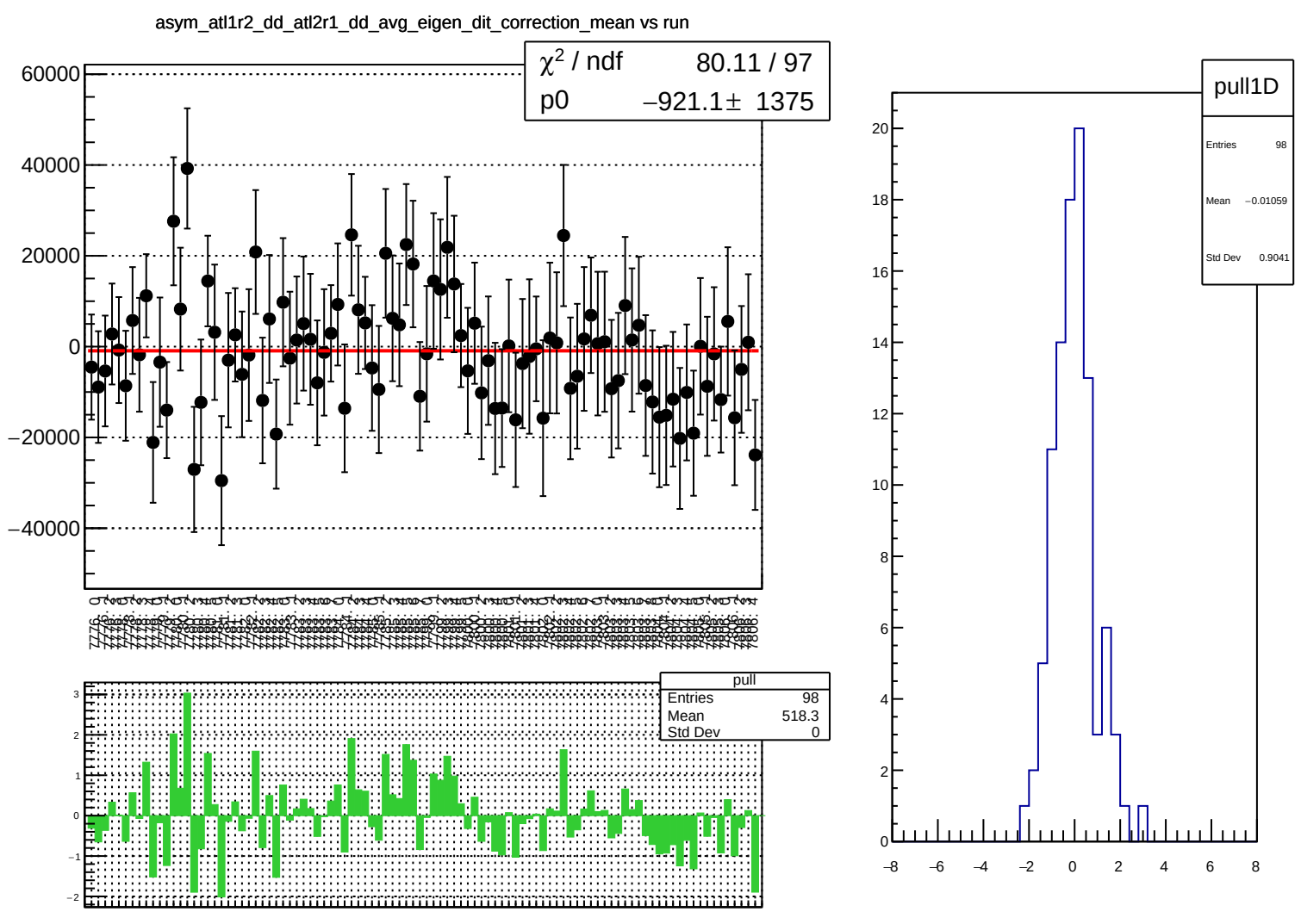

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 80.11 / 97
p0 −921.1± 1375
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 518.3
Std Dev 0
3
2
1
0
−1
−2

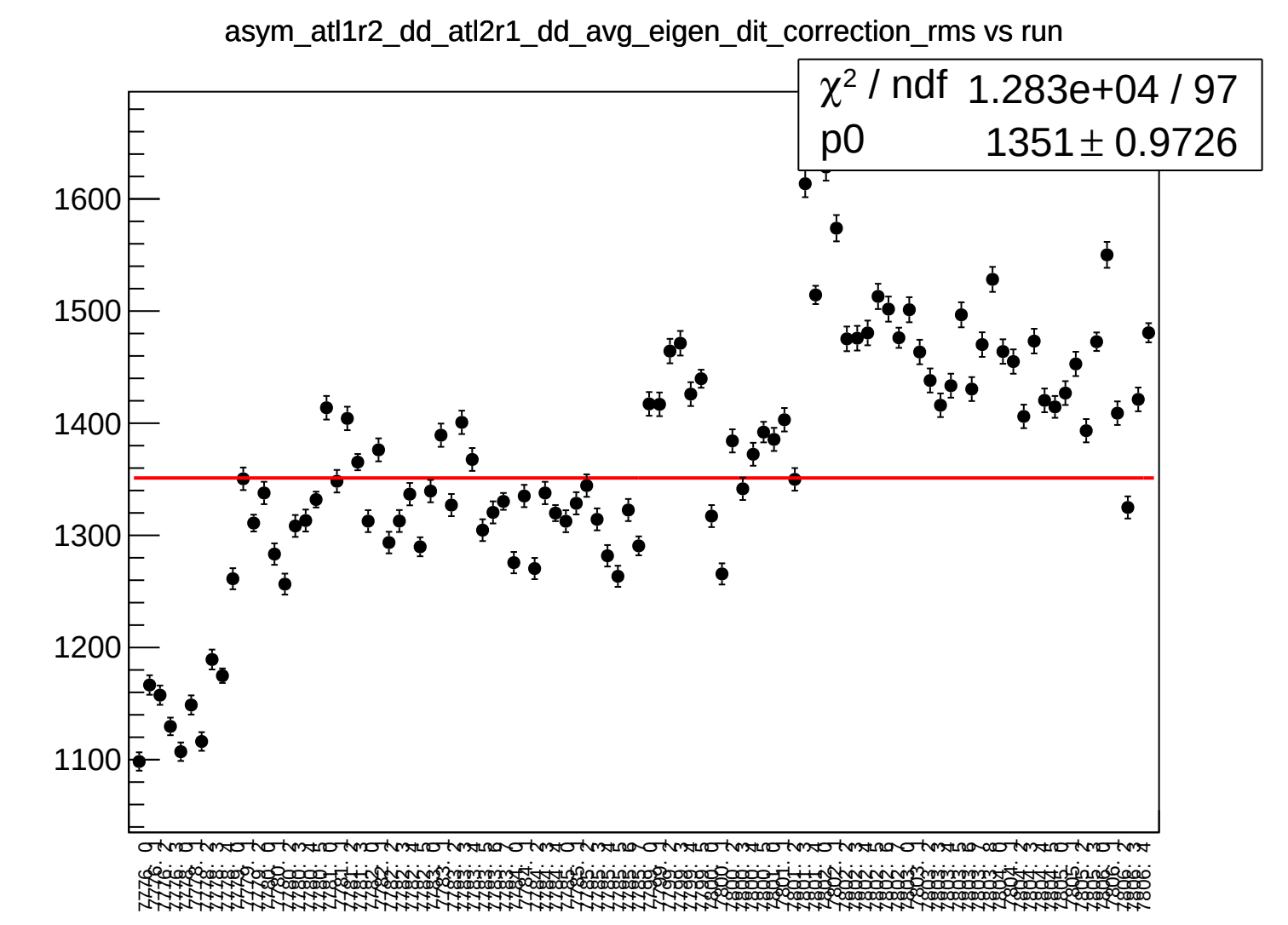

pull1D
Entries 98
Mean −0.01059
Std Dev 0.9041
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

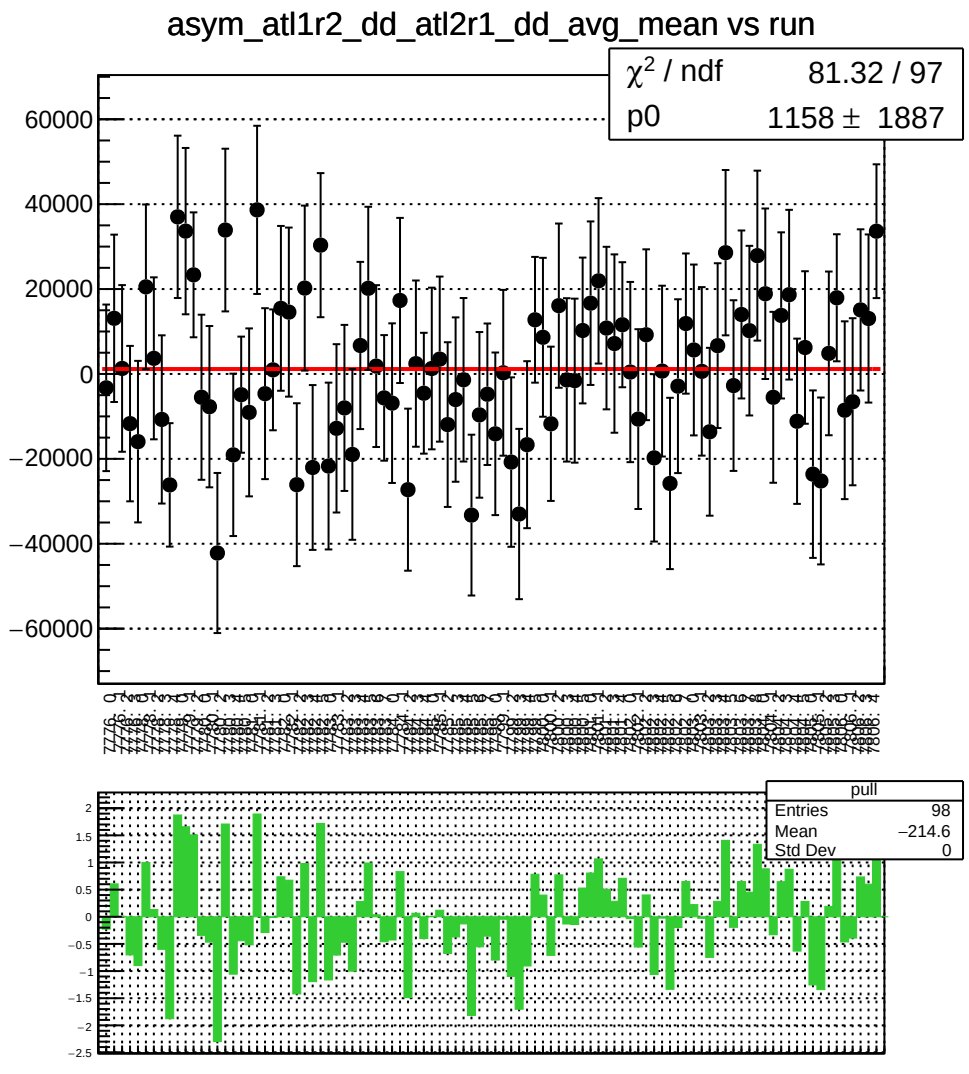

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1.283e+04 / 97
p0 1351 ± 0.9726
1600
1500
1400
1300
1200
1100

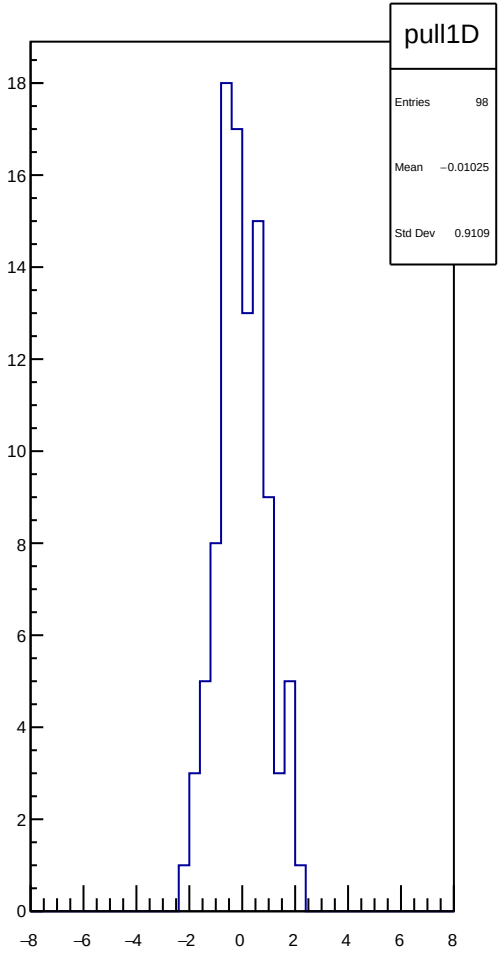

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 94.41 / 97
p0 38.39 ± 1308
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 136.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.018
Std Dev 0.9813
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

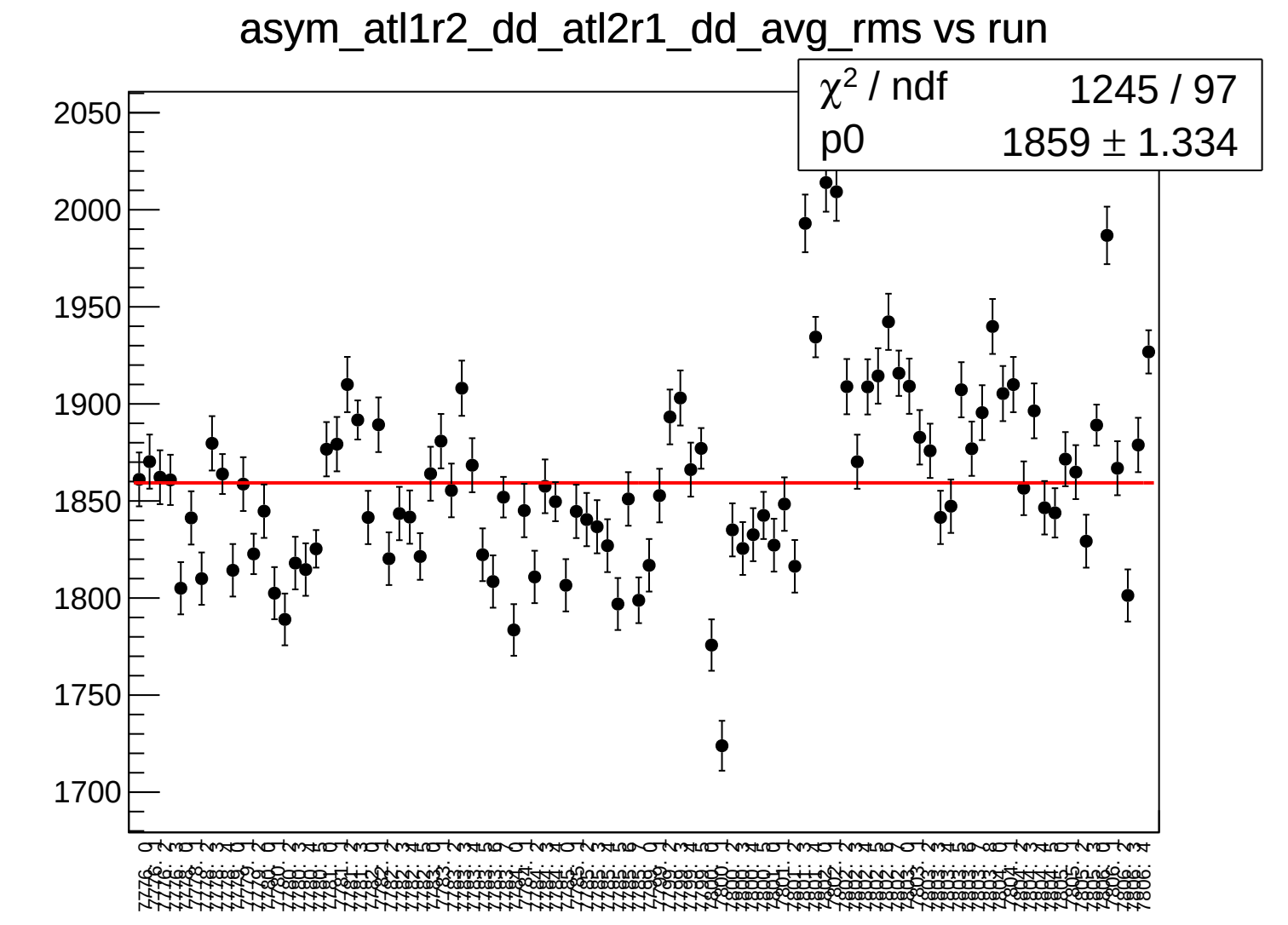

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 191.9 / 97
p0 1289 ± 0.9251
1380
1360
1340
1320
1300
1280
1260

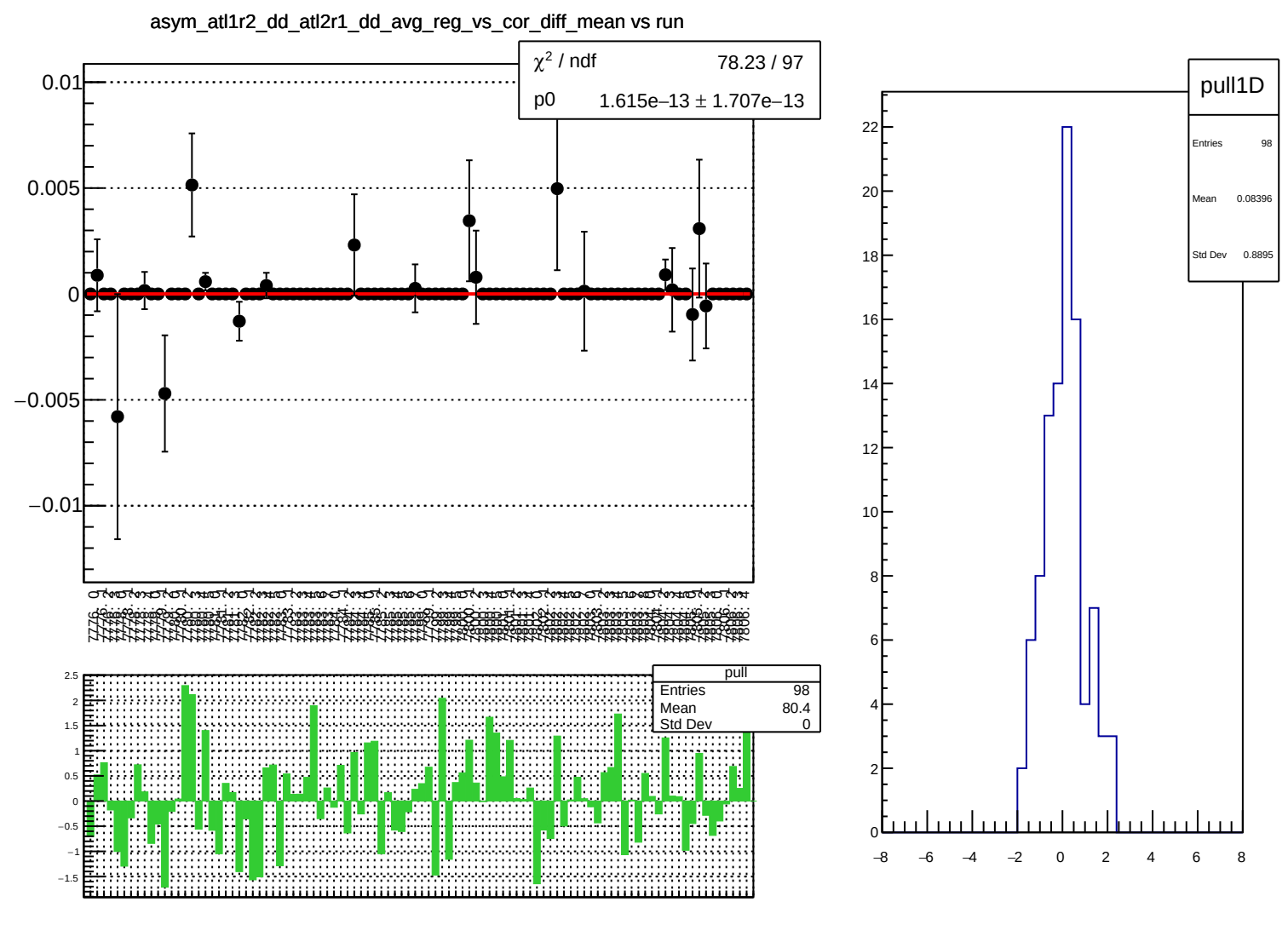

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.11 / 97
p0 −921.1± 1375
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 518.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01059
Std Dev 0.9041
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

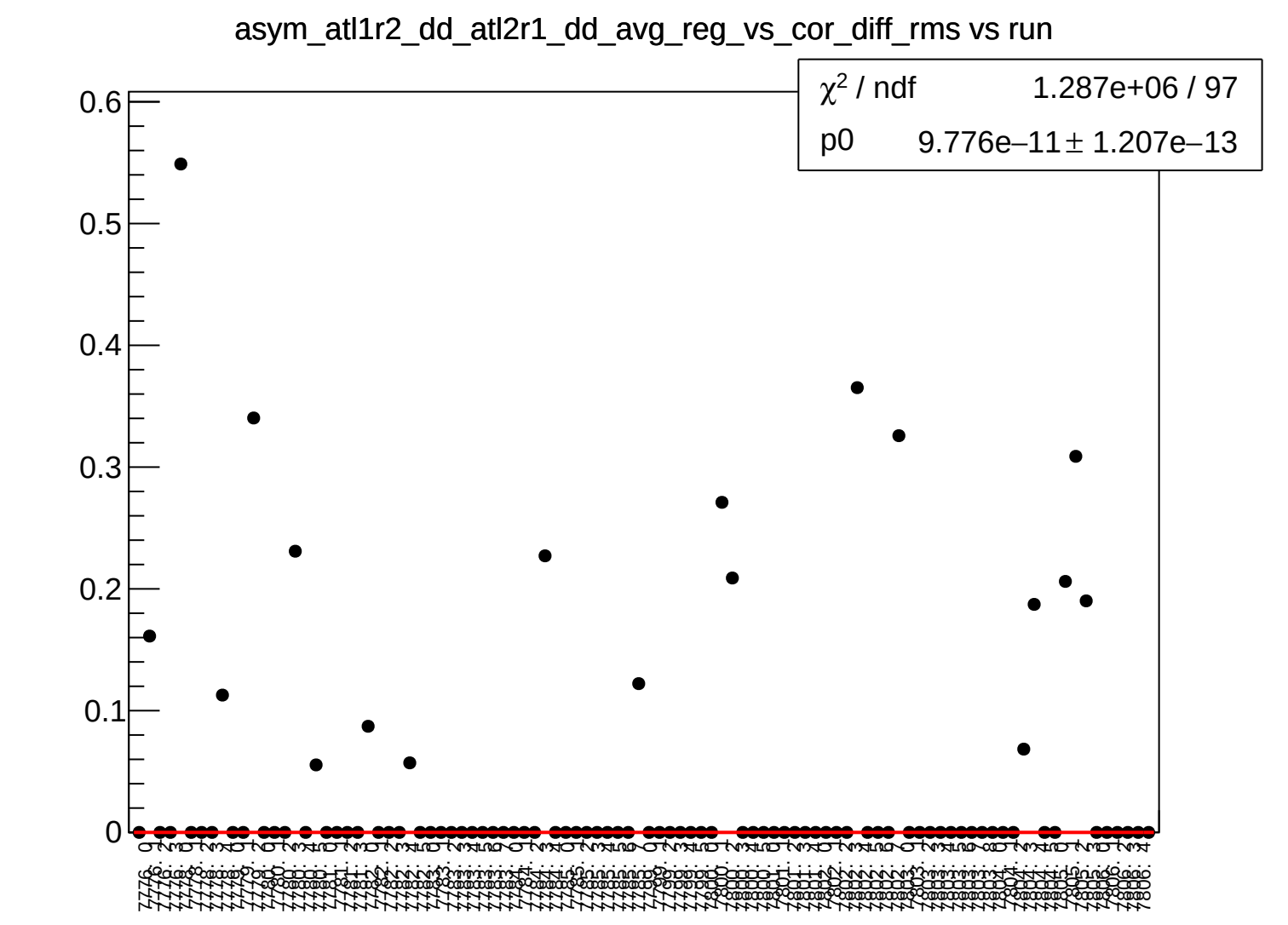

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.283e+04 / 97
p0 1351 ± 0.9726
1600
1500
1400
1300
1200
1100

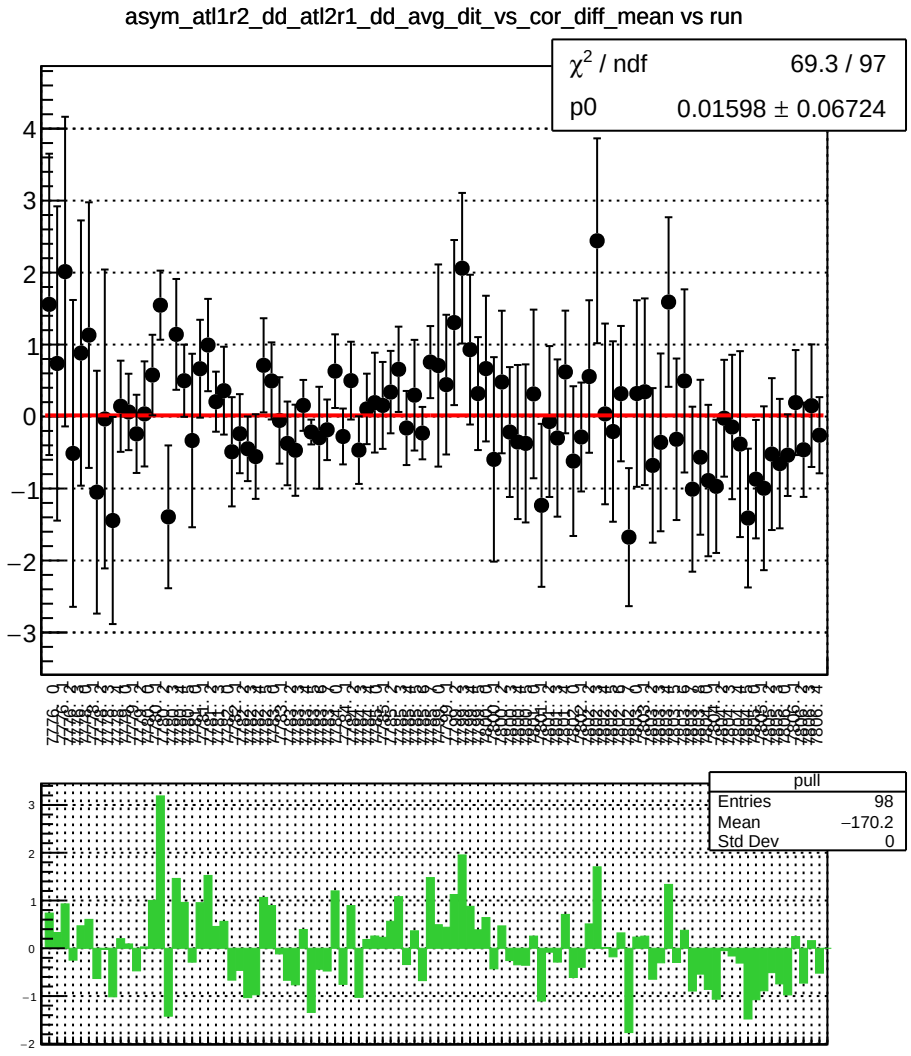

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 81.32 / 97
p0 1158 ± 1887
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −214.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

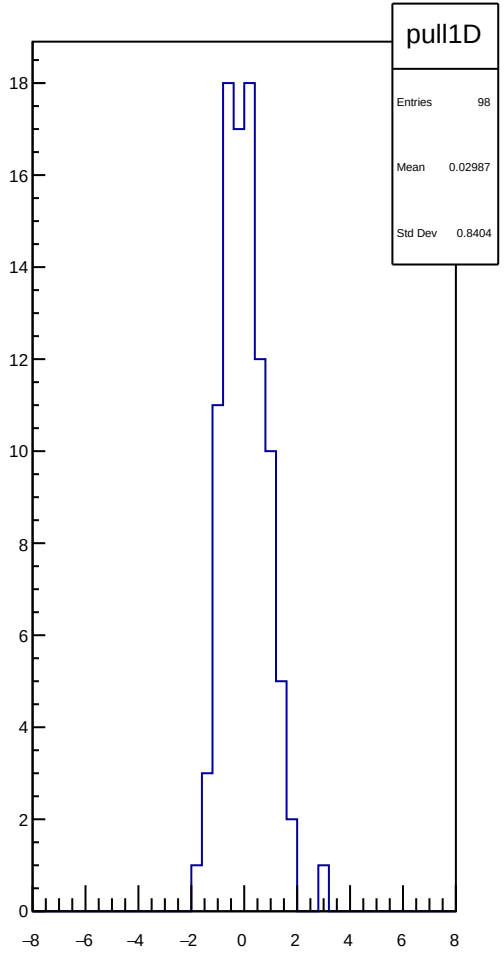

pull1D
Entries 98
Mean −0.01025
Std Dev 0.9109
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

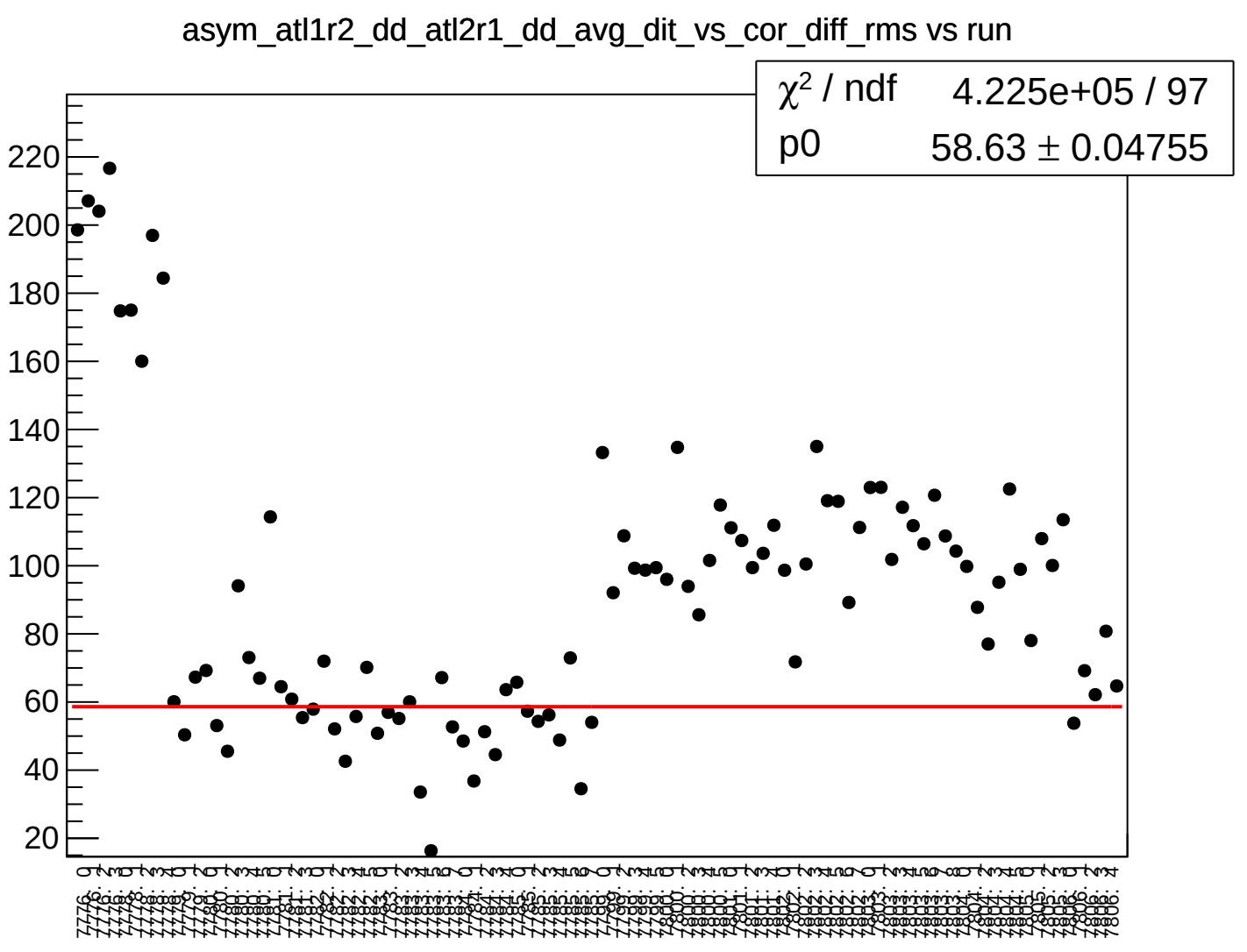

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1245 / 97
p0 1859 ± 1.334
2050
2000
1950
1900
1850
1800
1750
1700

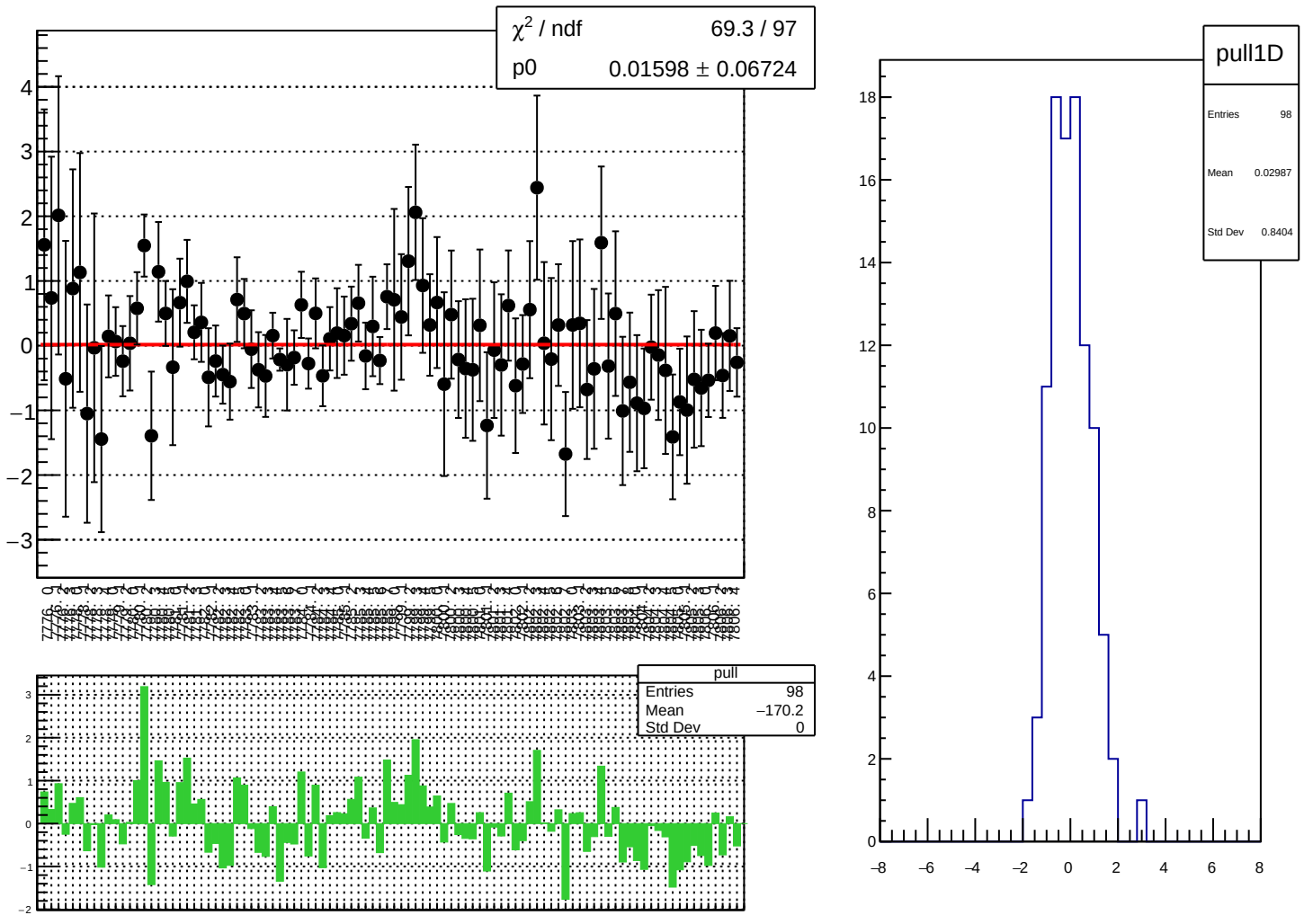

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.23 / 97
p0 1.615e−13 ± 1.707e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 98
Mean 80.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.08396
Std Dev 0.8895
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

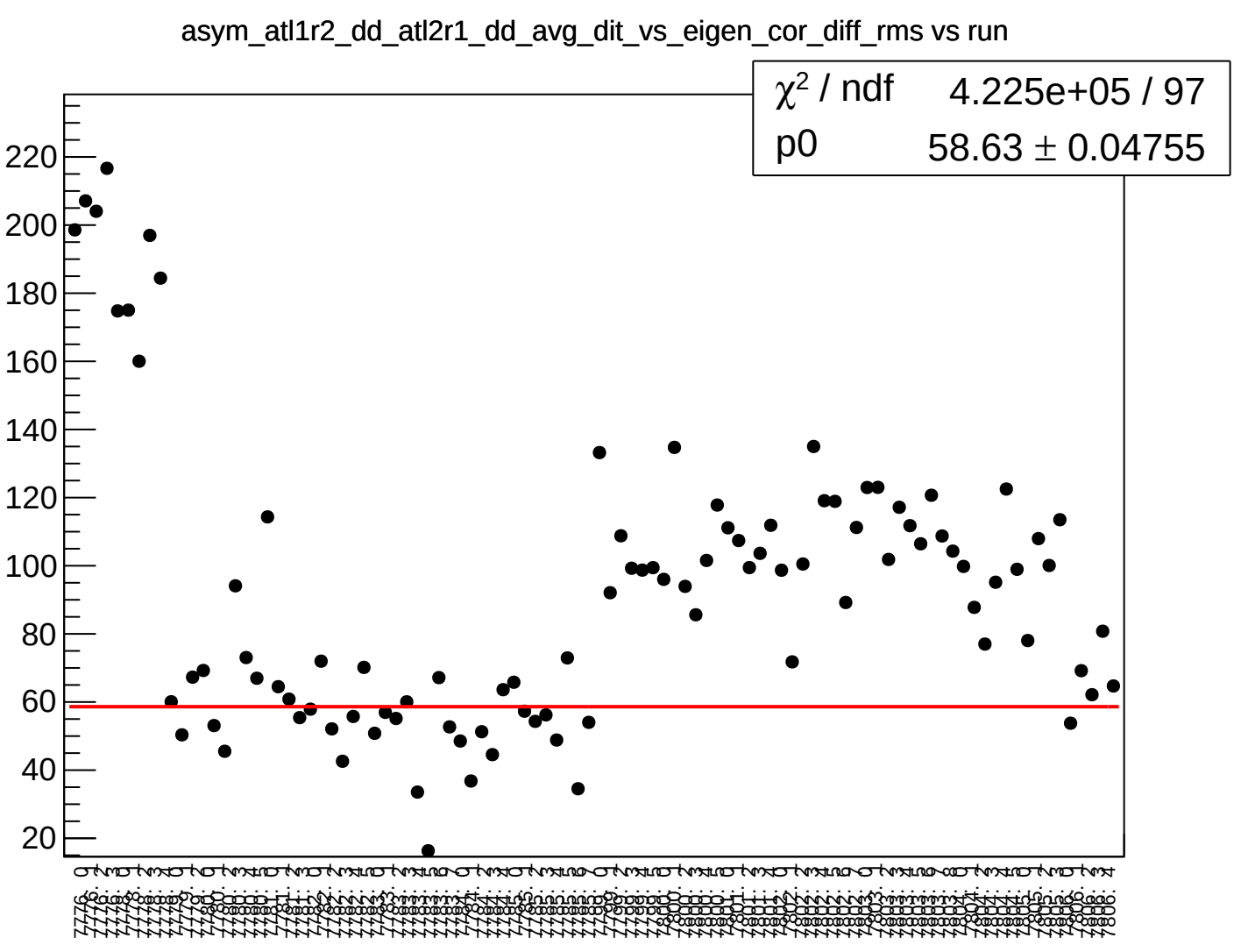

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.287e+06 / 97
p0 9.776e−11 ± 1.207e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

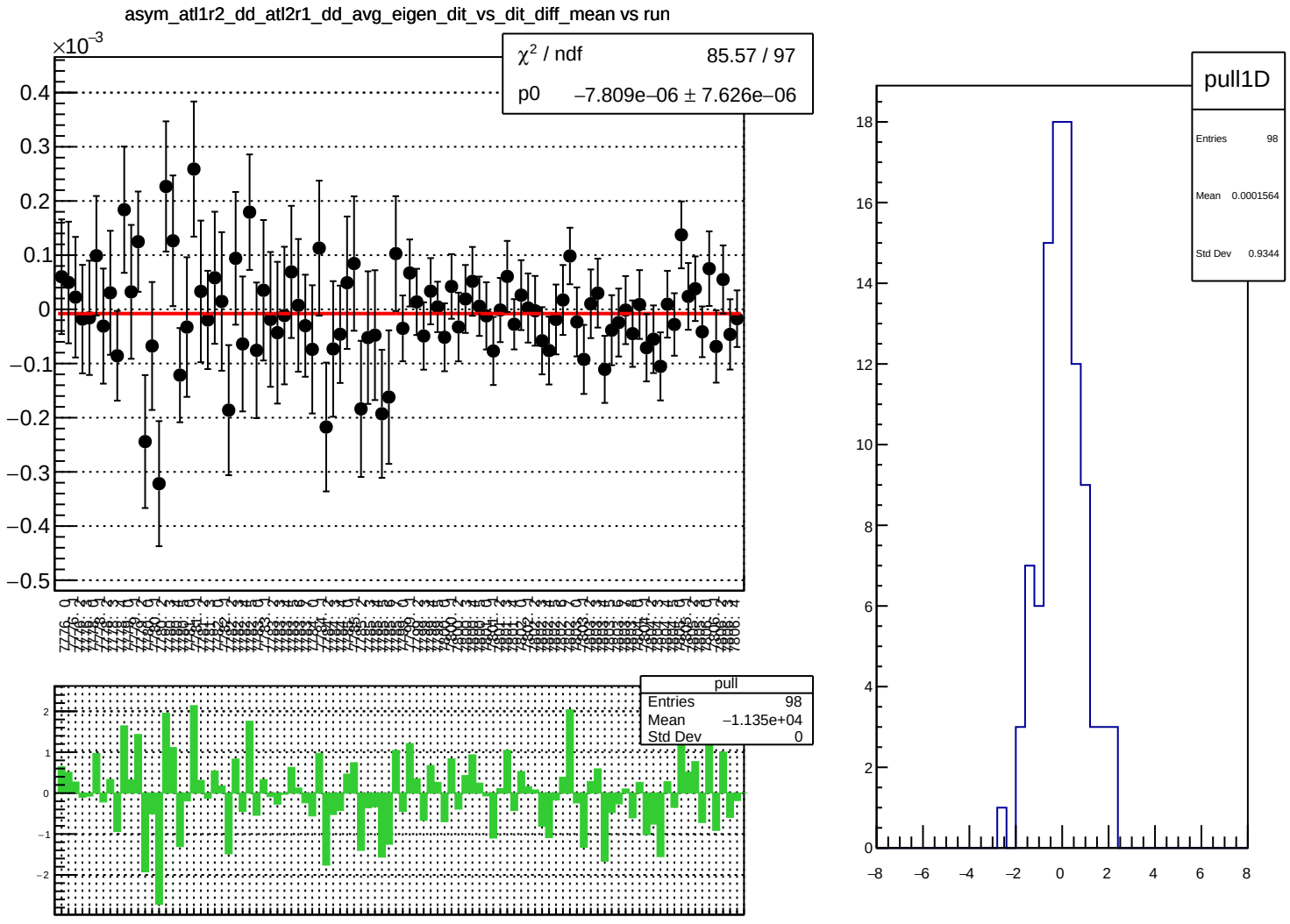

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.3 / 97
p0 0.01598 ± 0.06724
pull
Entries 98
Mean −170.2
Std Dev 0

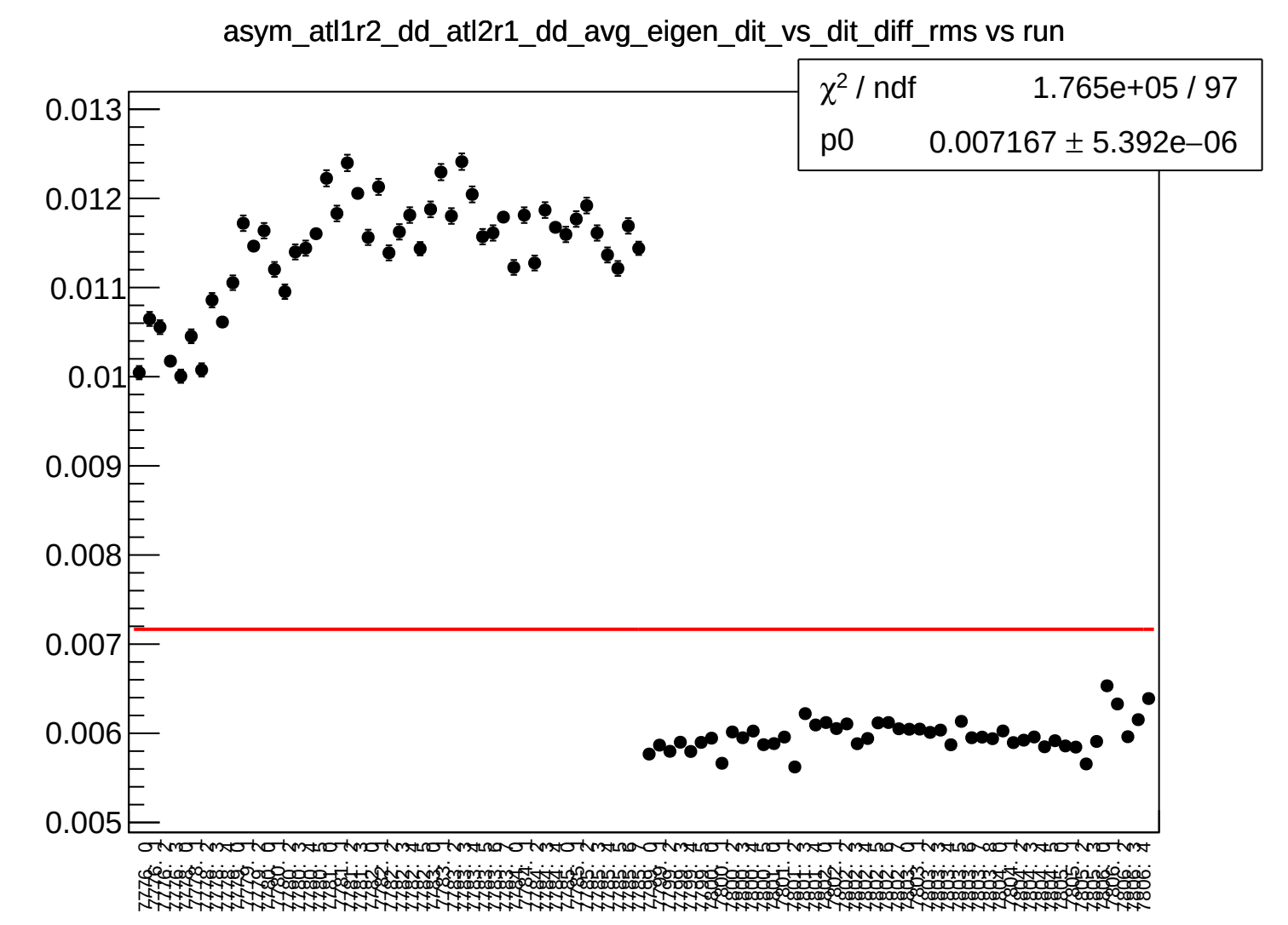

pull1D
Entries 98
Mean 0.02987
Std Dev 0.8404

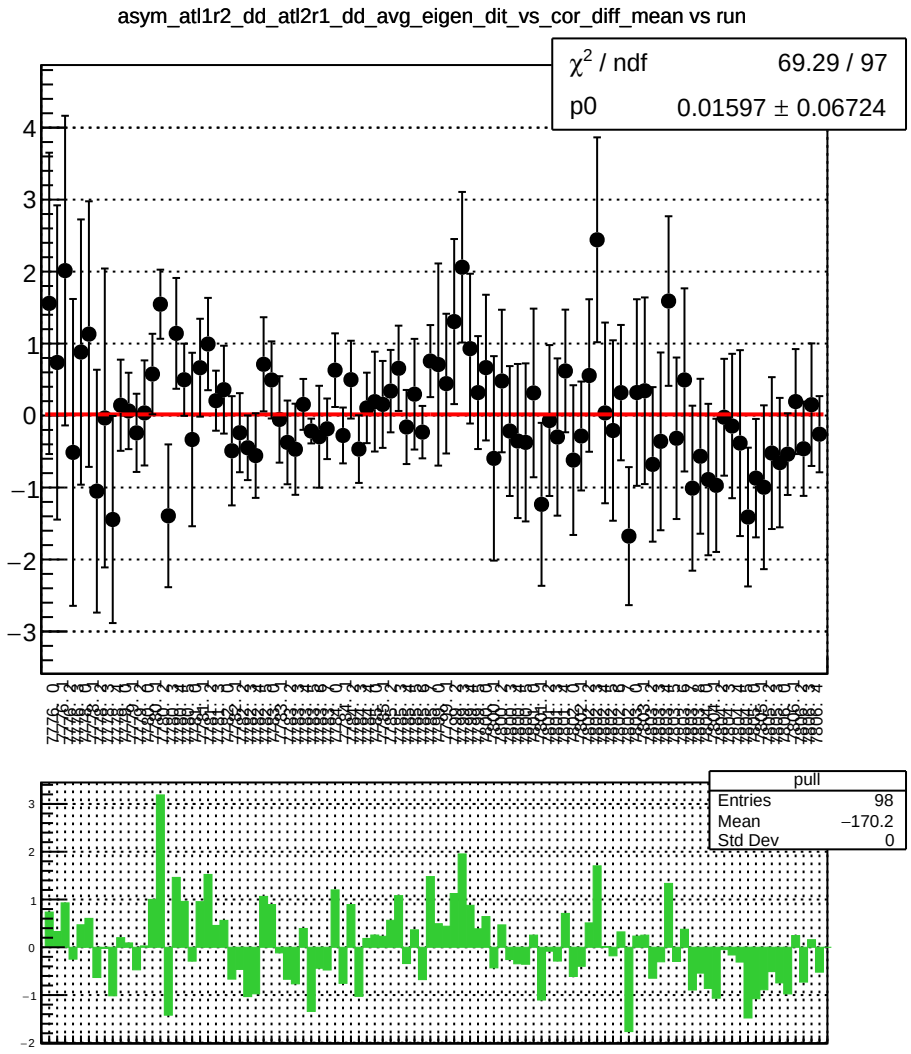

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.225e+05 / 97
p0 58.63 ± 0.04755
220
200
180
160
140
120
100
80
60
40
20

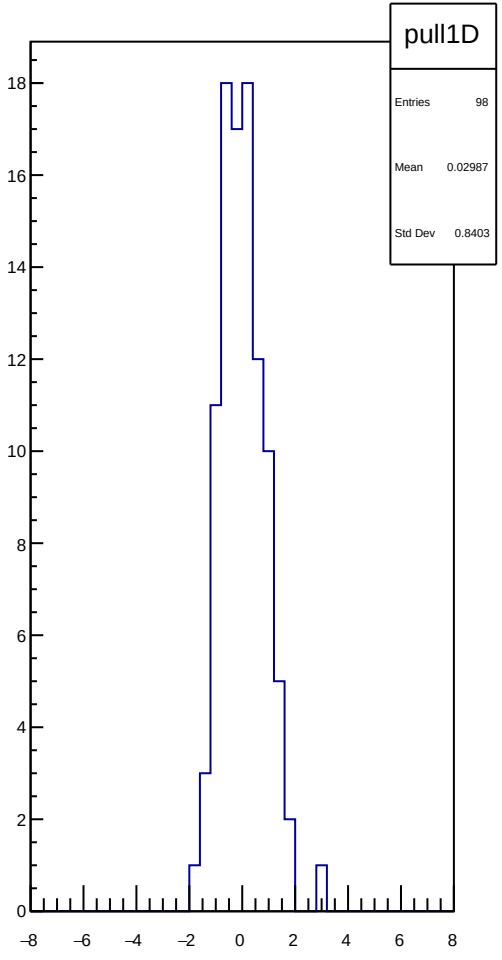

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.3 / 97
p0 0.01598 ± 0.06724
pull
Entries 98
Mean −170.2
Std Dev 0
pull1D
Entries 98
Mean 0.02987
Std Dev 0.8404

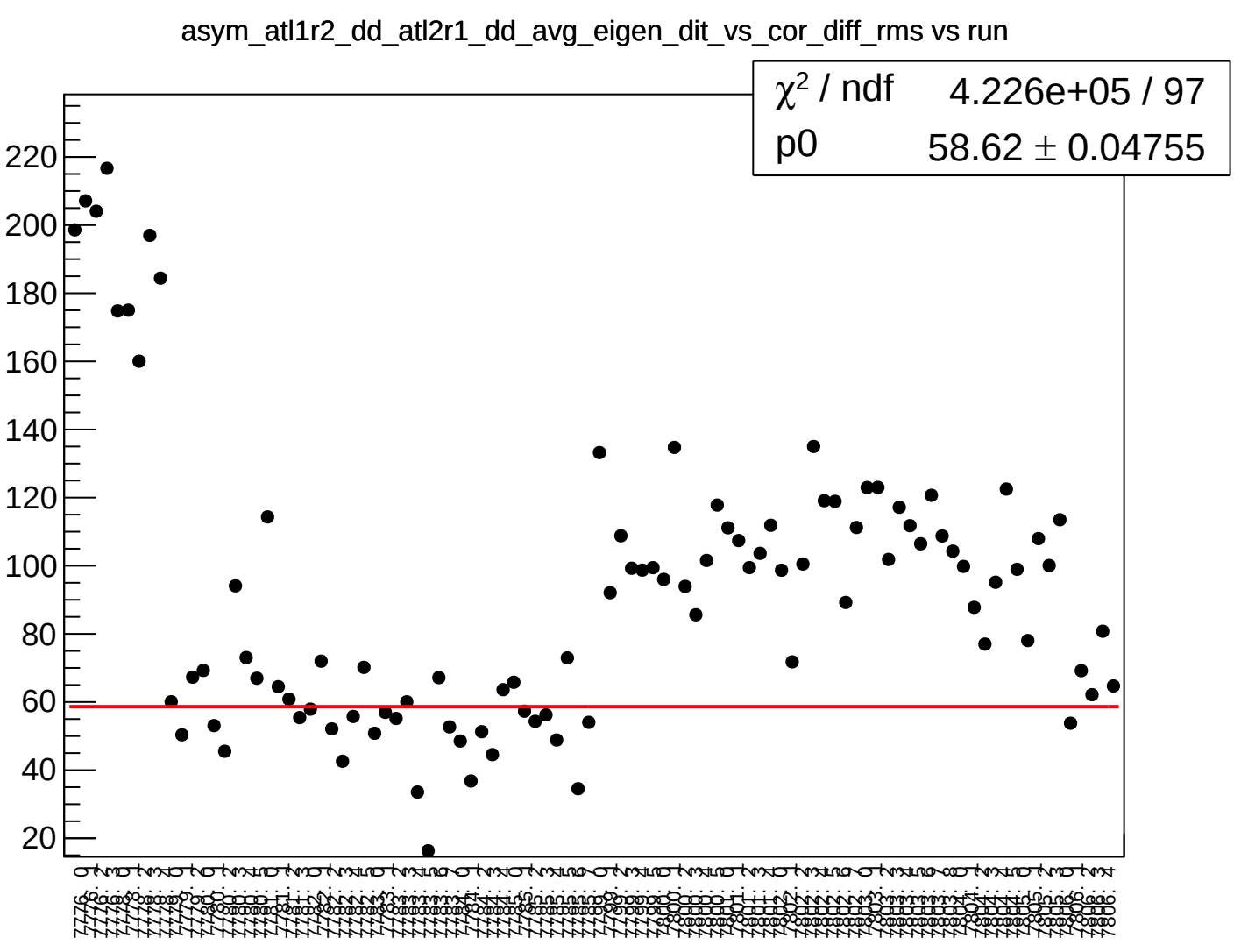

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.225e+05 / 97
p0 58.63 ± 0.04755
220
200
180
160
140
120
100
80
60
40
20

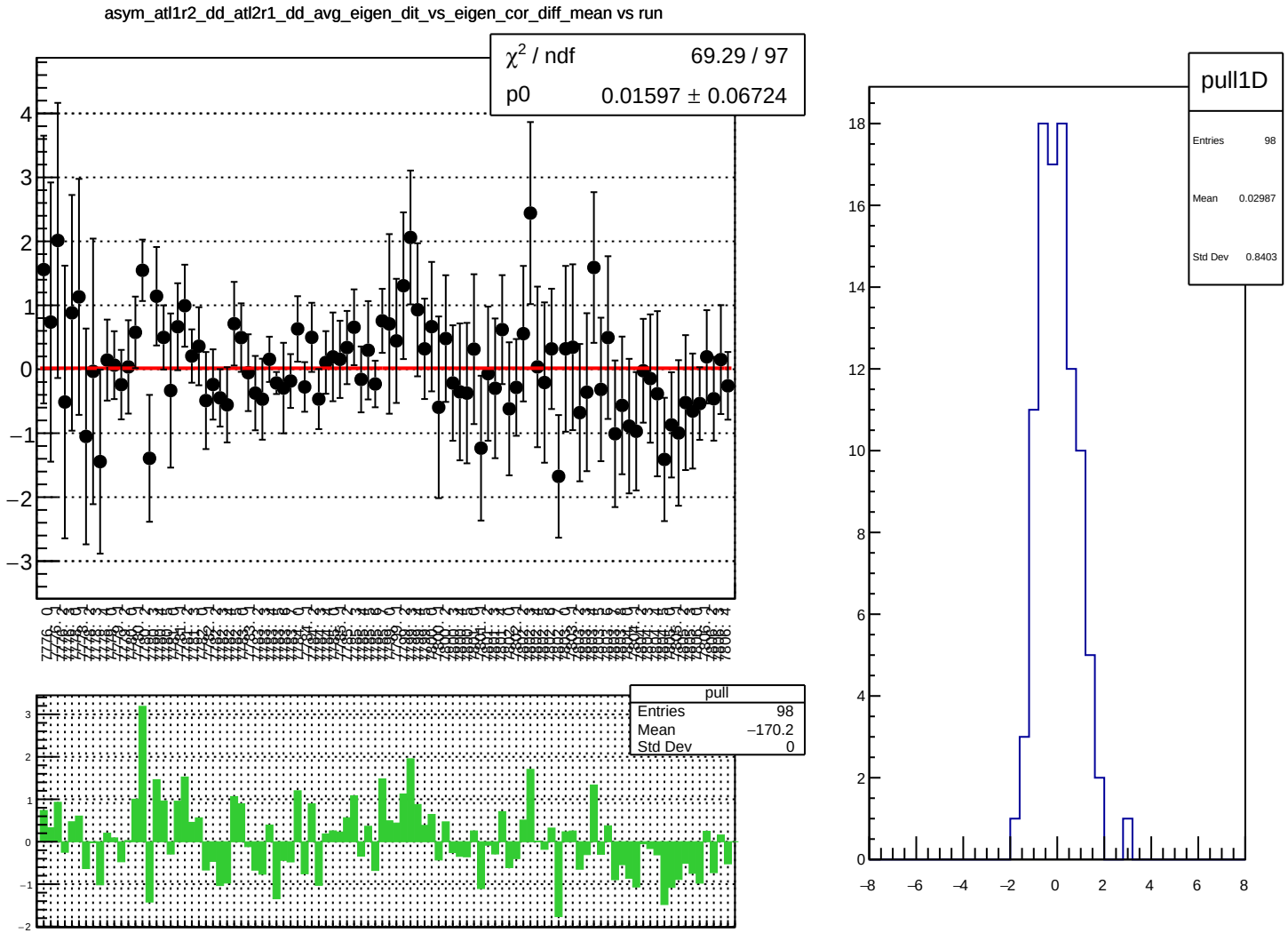

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 85.57 / 97
p0 −7.809e−06 ± 7.626e−06
pull
Entries 98
Mean −1.135e+04
Std Dev 0
pull1D
Entries 98
Mean 0.0001564
Std Dev 0.9344

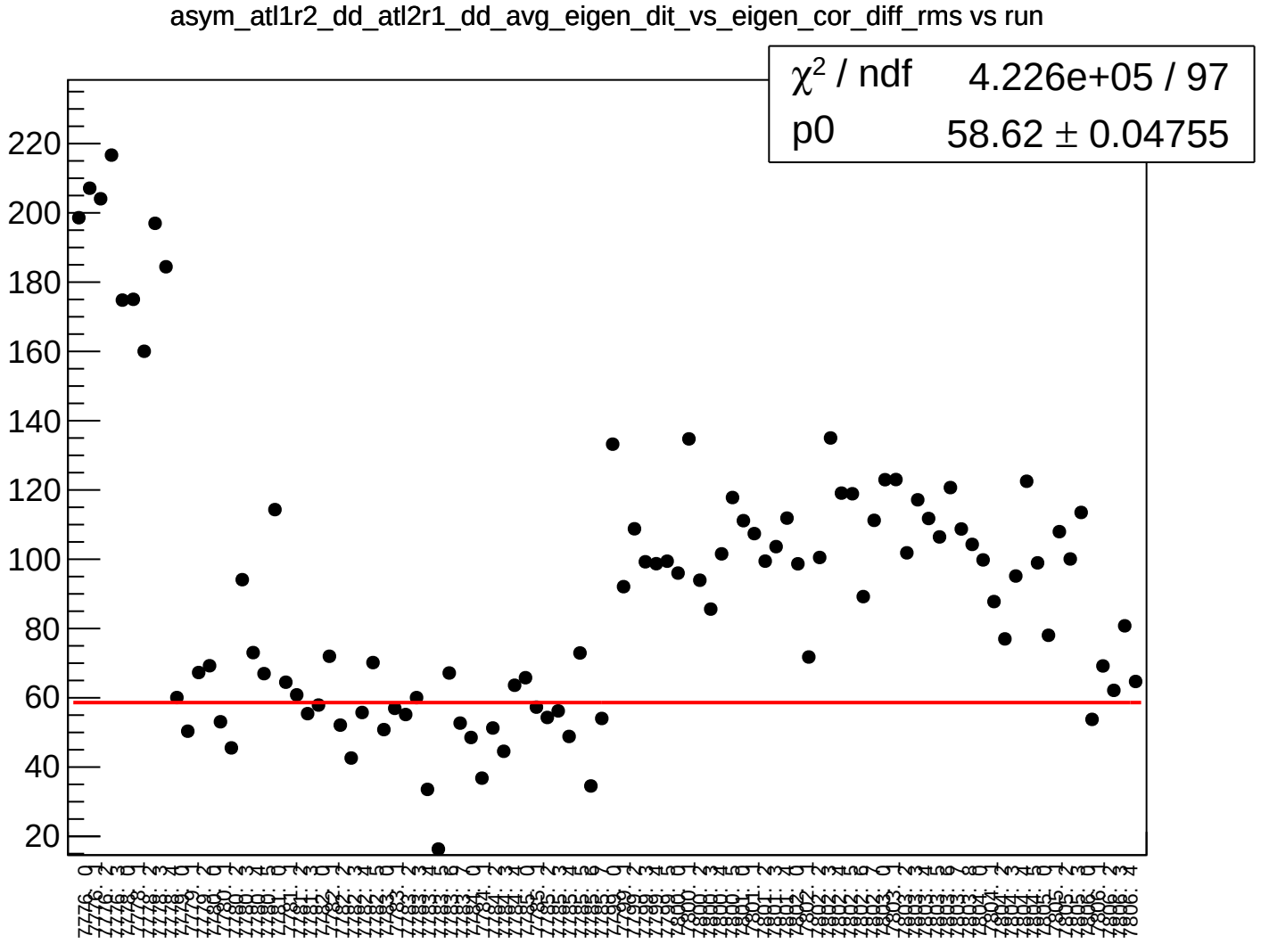

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.765e+05 / 97
p0 0.007167 ± 5.392e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

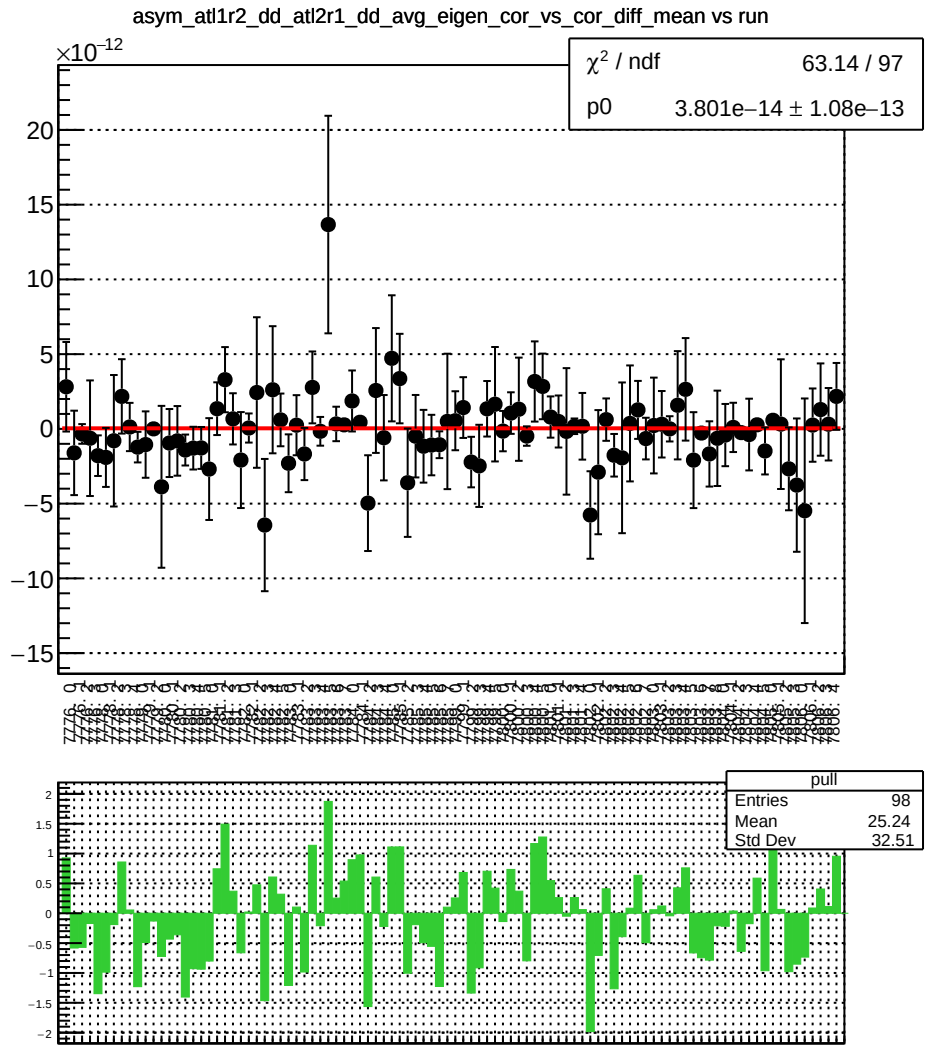

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.29 / 97
p0 0.01597 ± 0.06724
pull
Entries 98
Mean −170.2
Std Dev 0

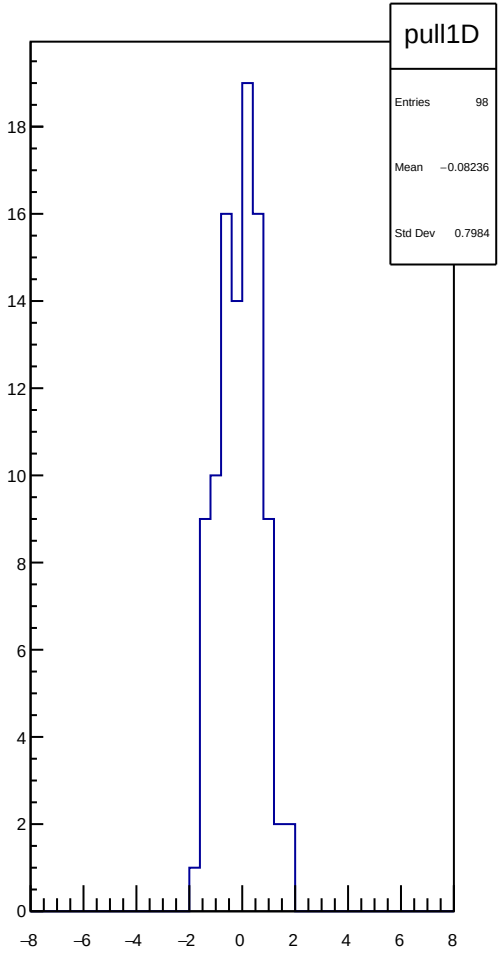

pull1D
Entries 98
Mean 0.02987
Std Dev 0.8403

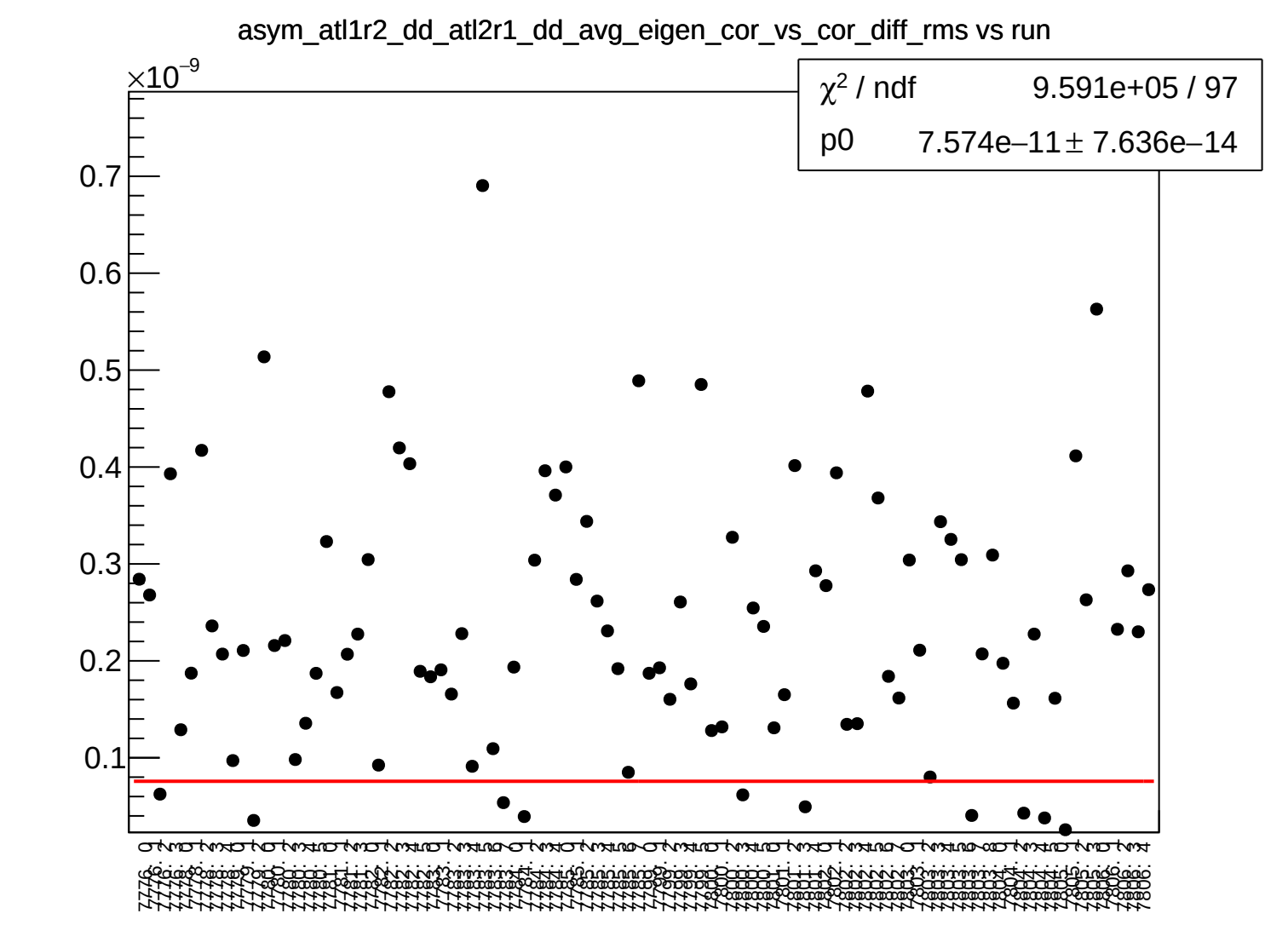

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.226e+05 / 97
p0 58.62 ± 0.04755
220
200
180
160
140
120
100
80
60
40
20

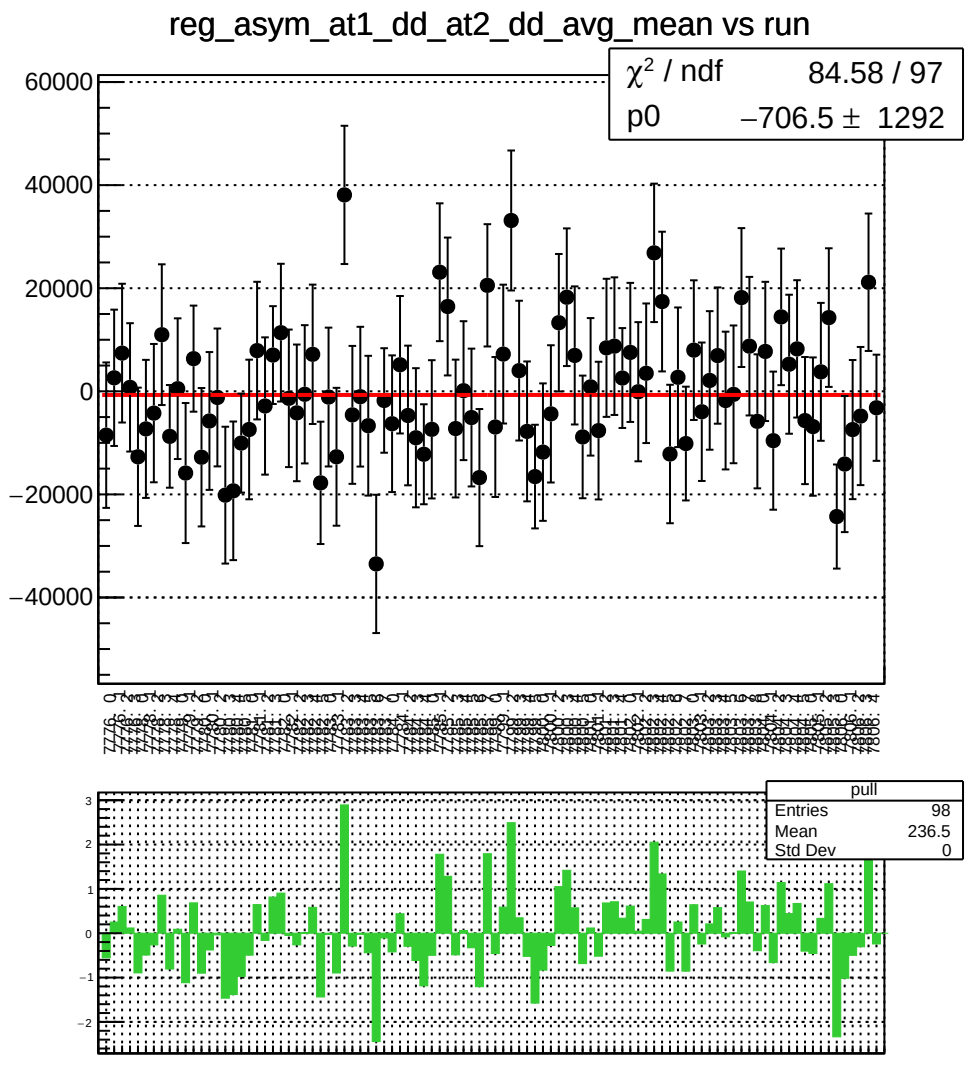

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.29 / 97
p0 0.01597 ± 0.06724
pull
Entries 98
Mean −170.2
Std Dev 0
pull1D
Entries 98
Mean 0.02987
Std Dev 0.8403

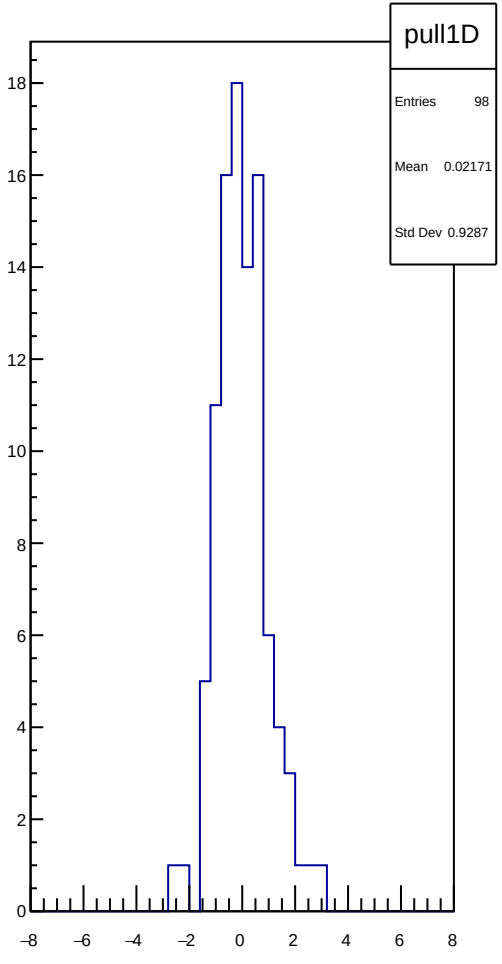

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.226e+05 / 97
p0 58.62 ± 0.04755
220
200
180
160
140
120
100
80
60
40
20

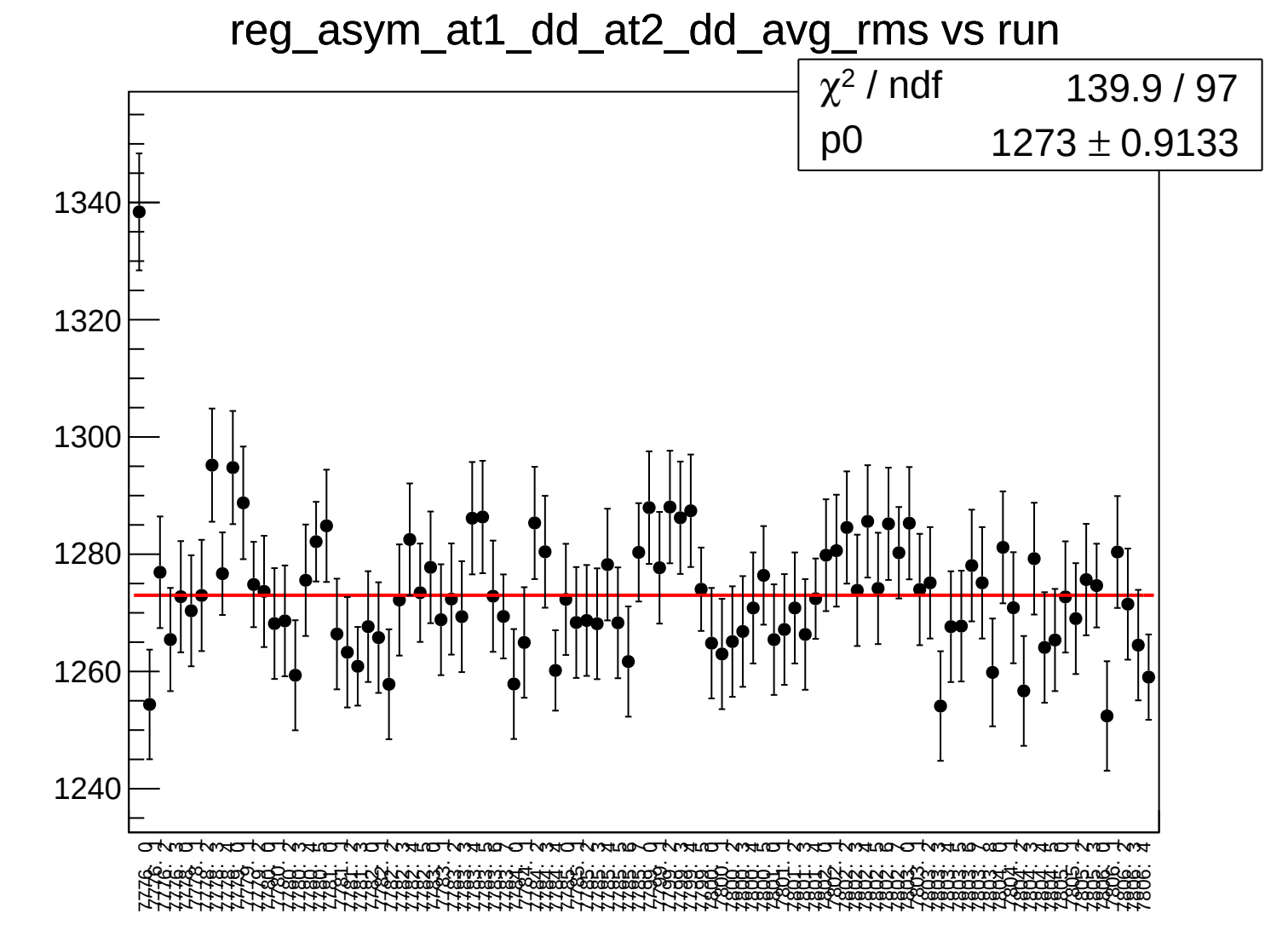

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.14 / 97
p0 3.801e−14 ± 1.08e−13
pull
Entries 98
Mean 25.24
Std Dev 32.51

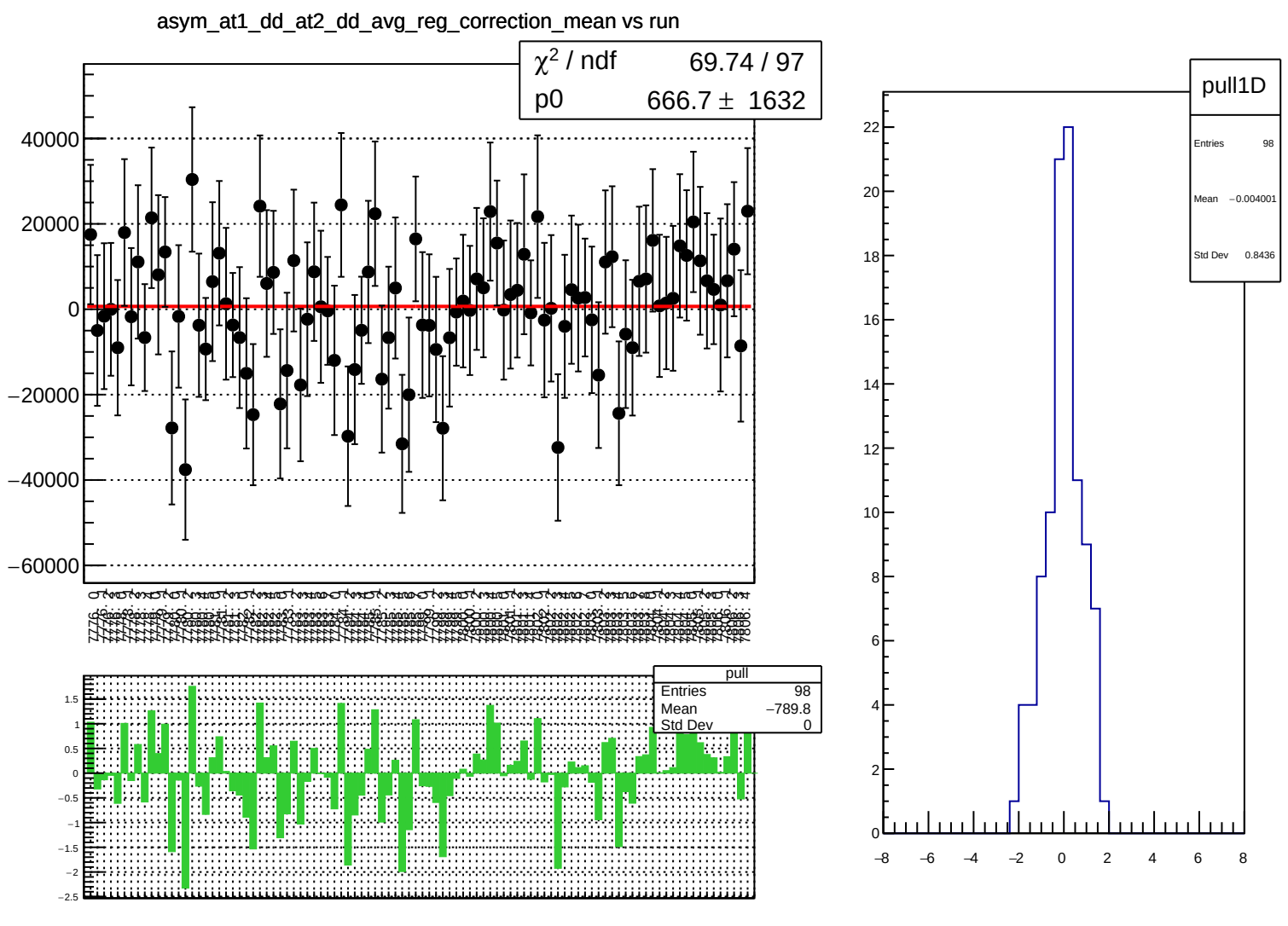

pull1D
Entries 98
Mean −0.08236
Std Dev 0.7984

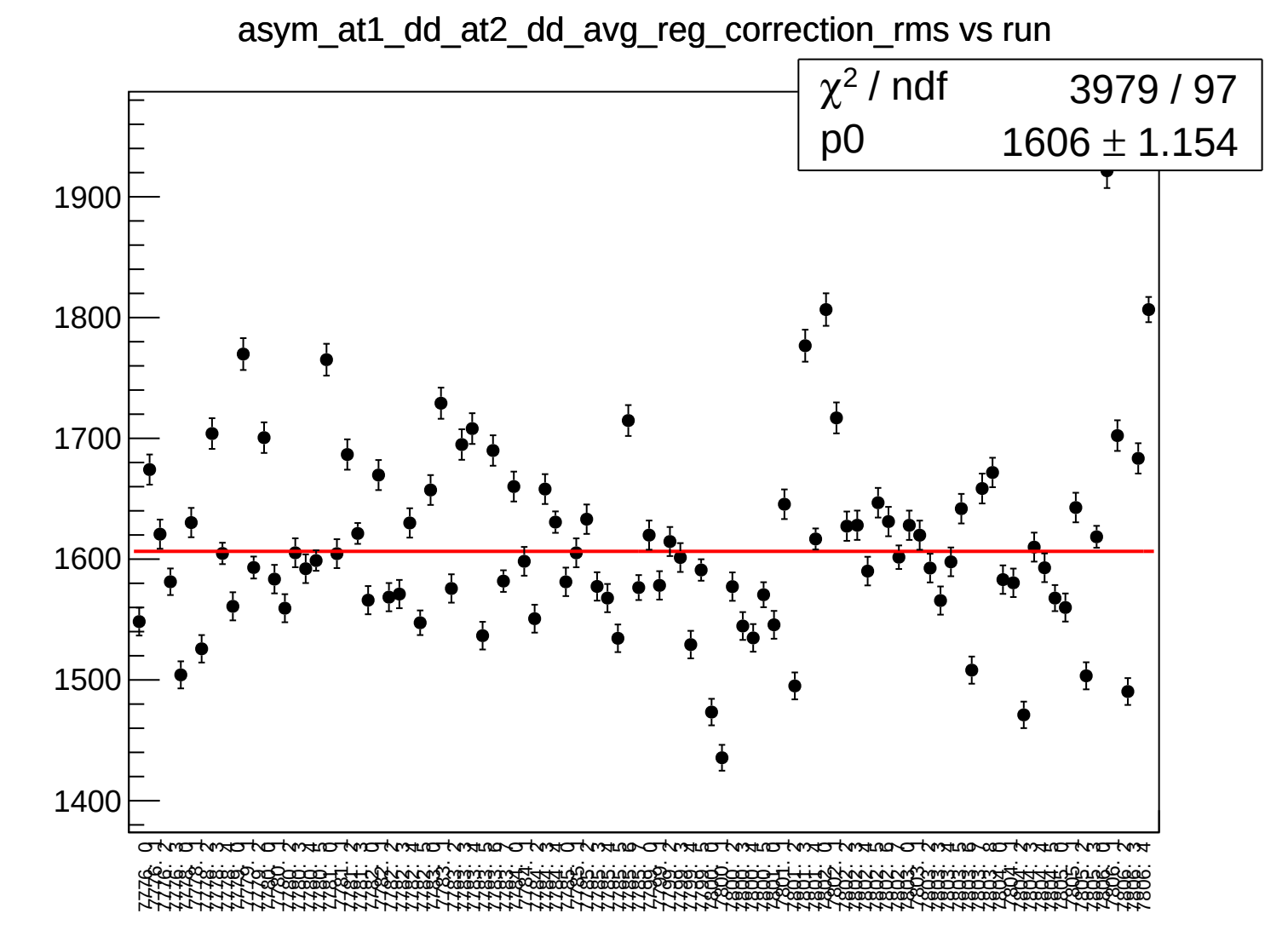

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.591e+05 / 97
p0 7.574e−11 ± 7.636e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

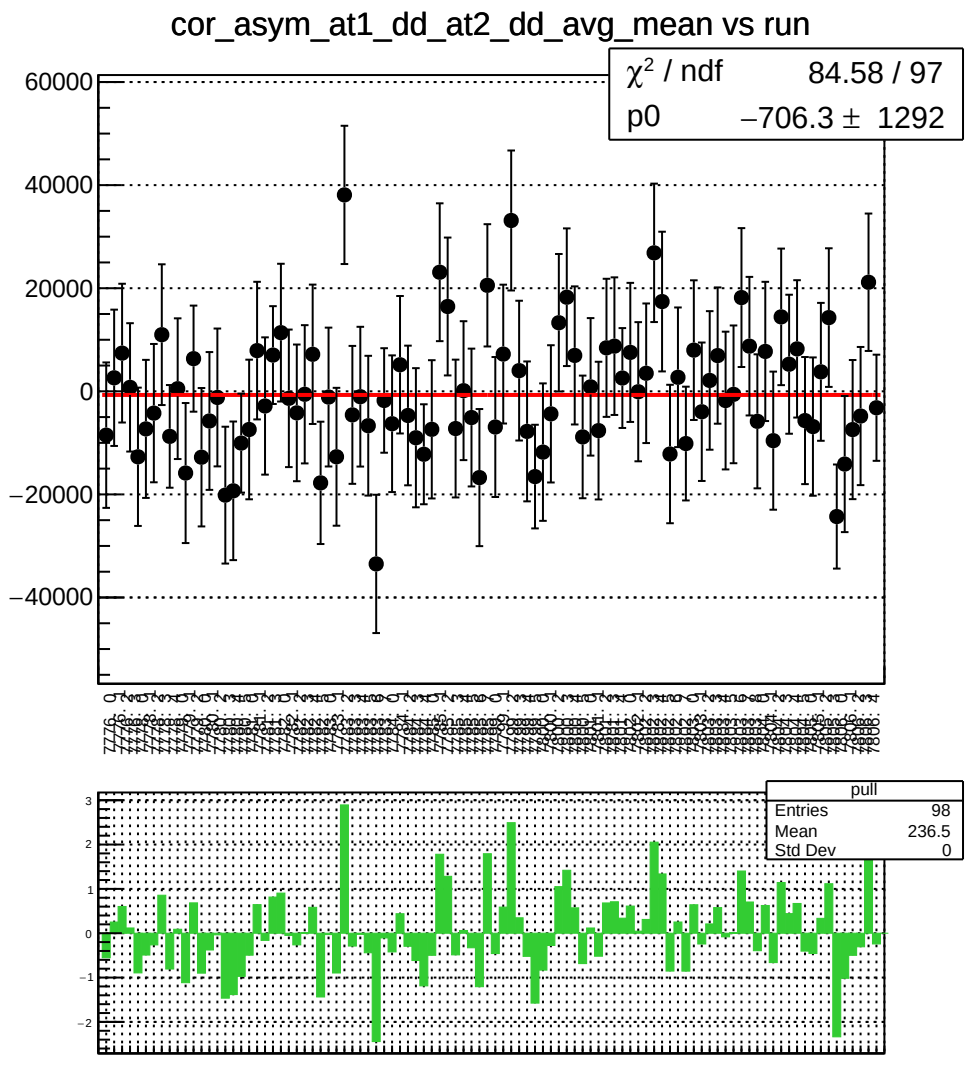

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.58 / 97
p0 −706.5 ± 1292
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 236.5
Std Dev 0
3
2
1
0
−1
−2

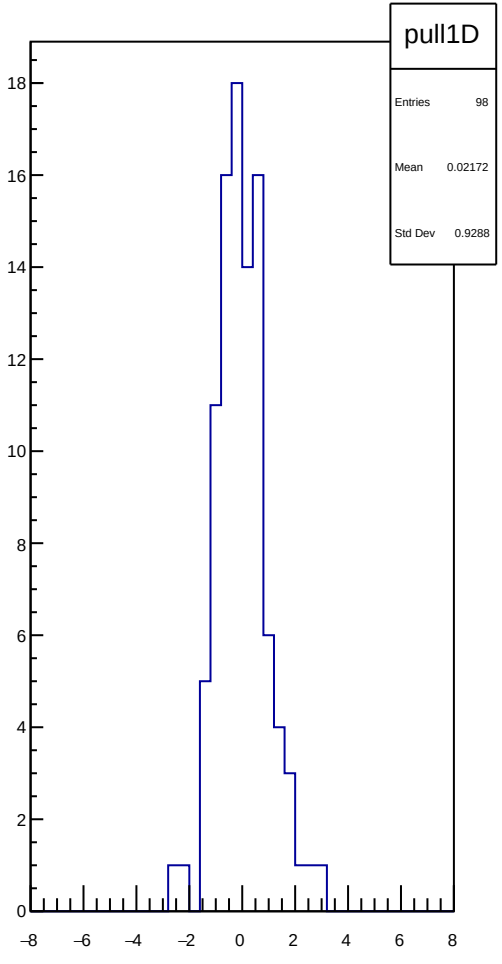

pull1D
Entries 98
Mean 0.02171
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

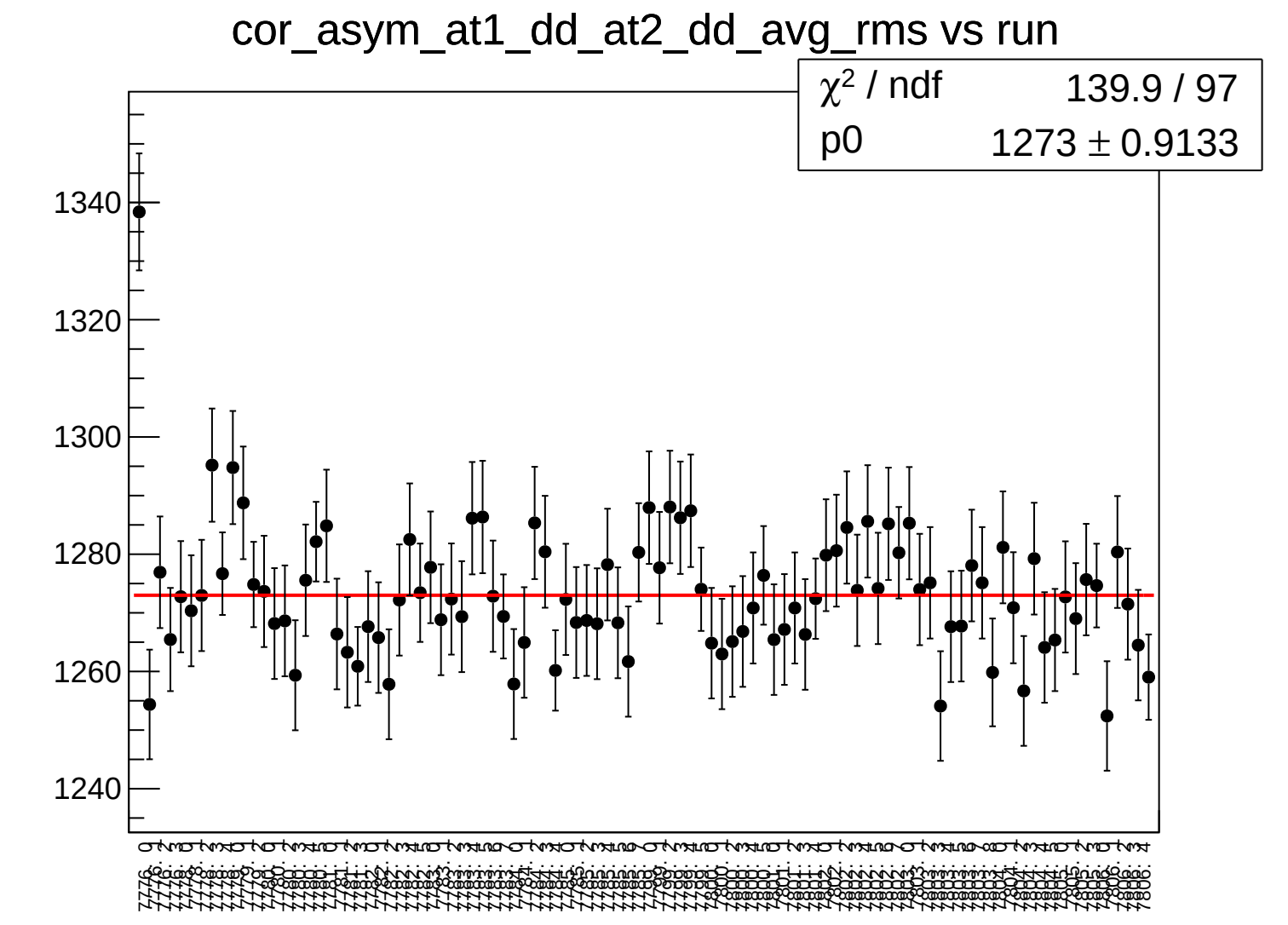

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 139.9 / 97
p0 1273 ± 0.9133
1340
1320
1300
1280
1260
1240

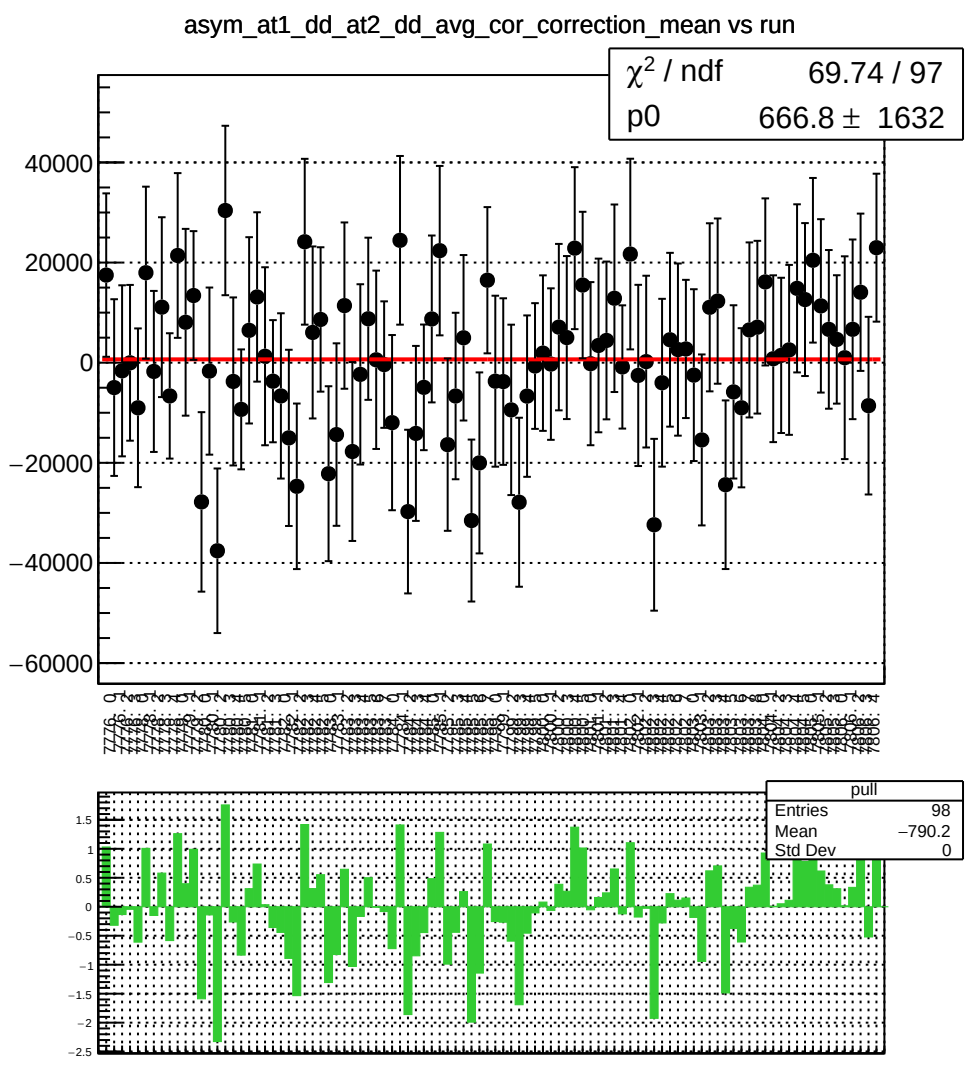

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 69.74 / 97
p0 666.7 ± 1632
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −789.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 98
Mean −0.004001
Std Dev 0.8436
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

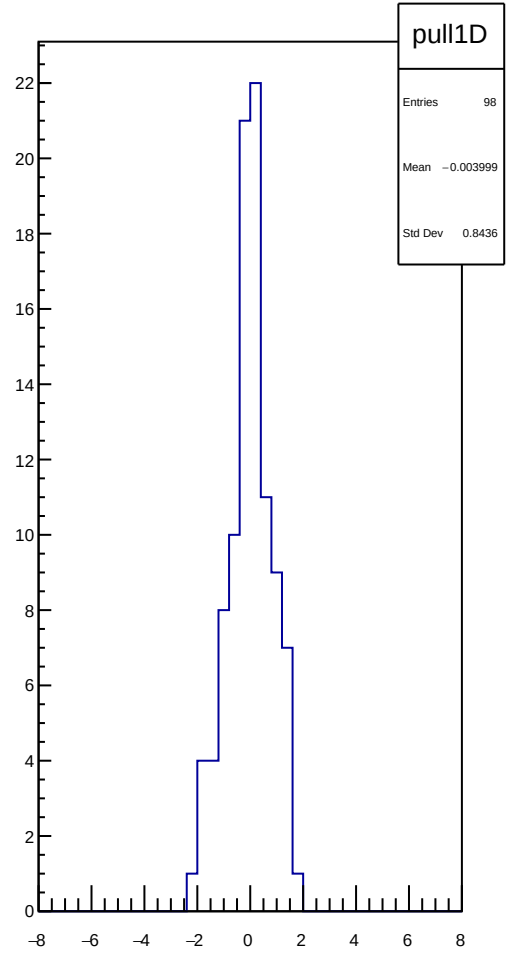

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 3979 / 97
p0 1606 ± 1.154
1900
1800
1700
1600
1500
1400

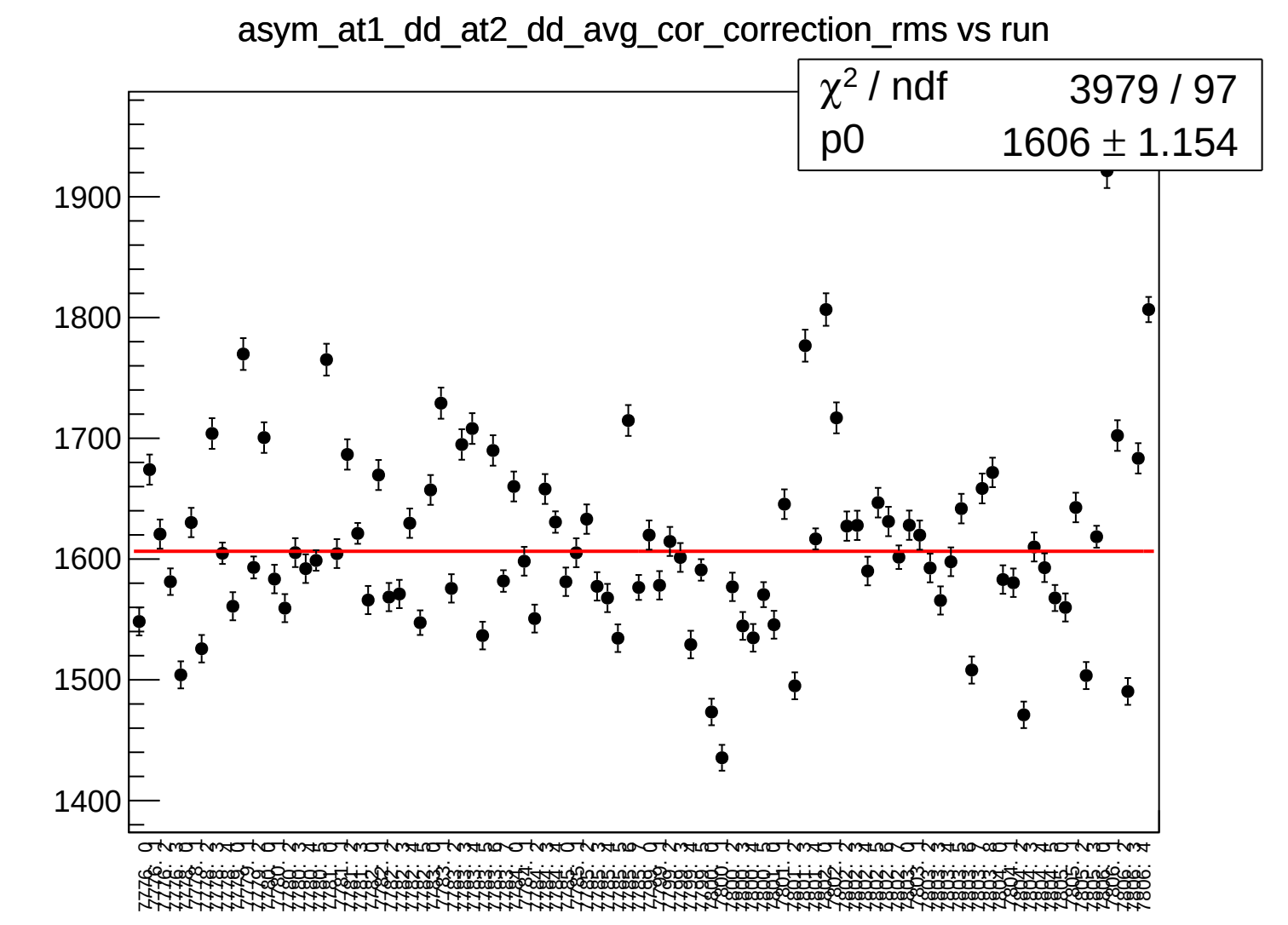

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.58 / 97
p0 −706.3 ± 1292
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 236.5
Std Dev 0
3
2
1
0
−1
−2

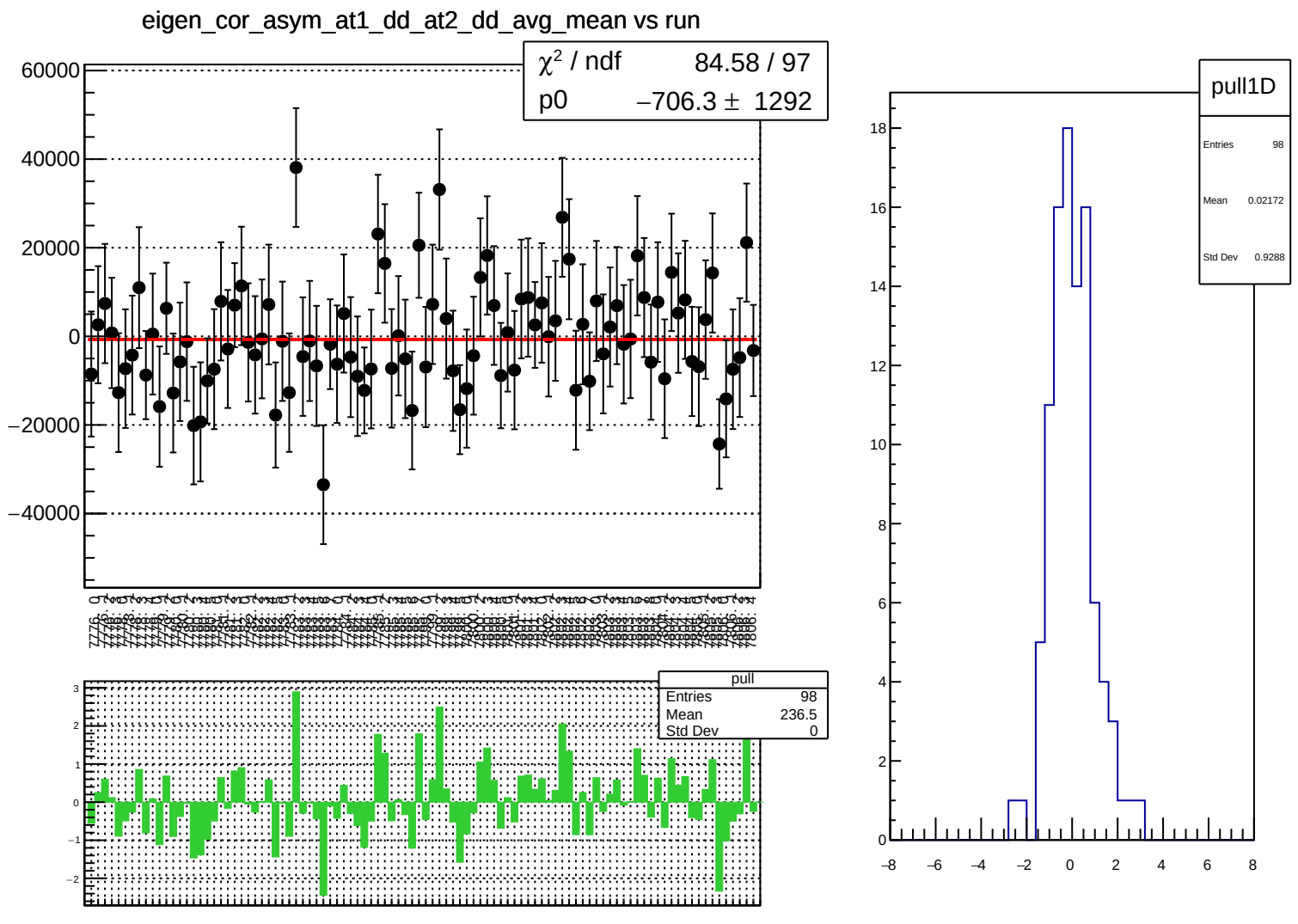

pull1D
Entries 98
Mean 0.02172
Std Dev 0.9288
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

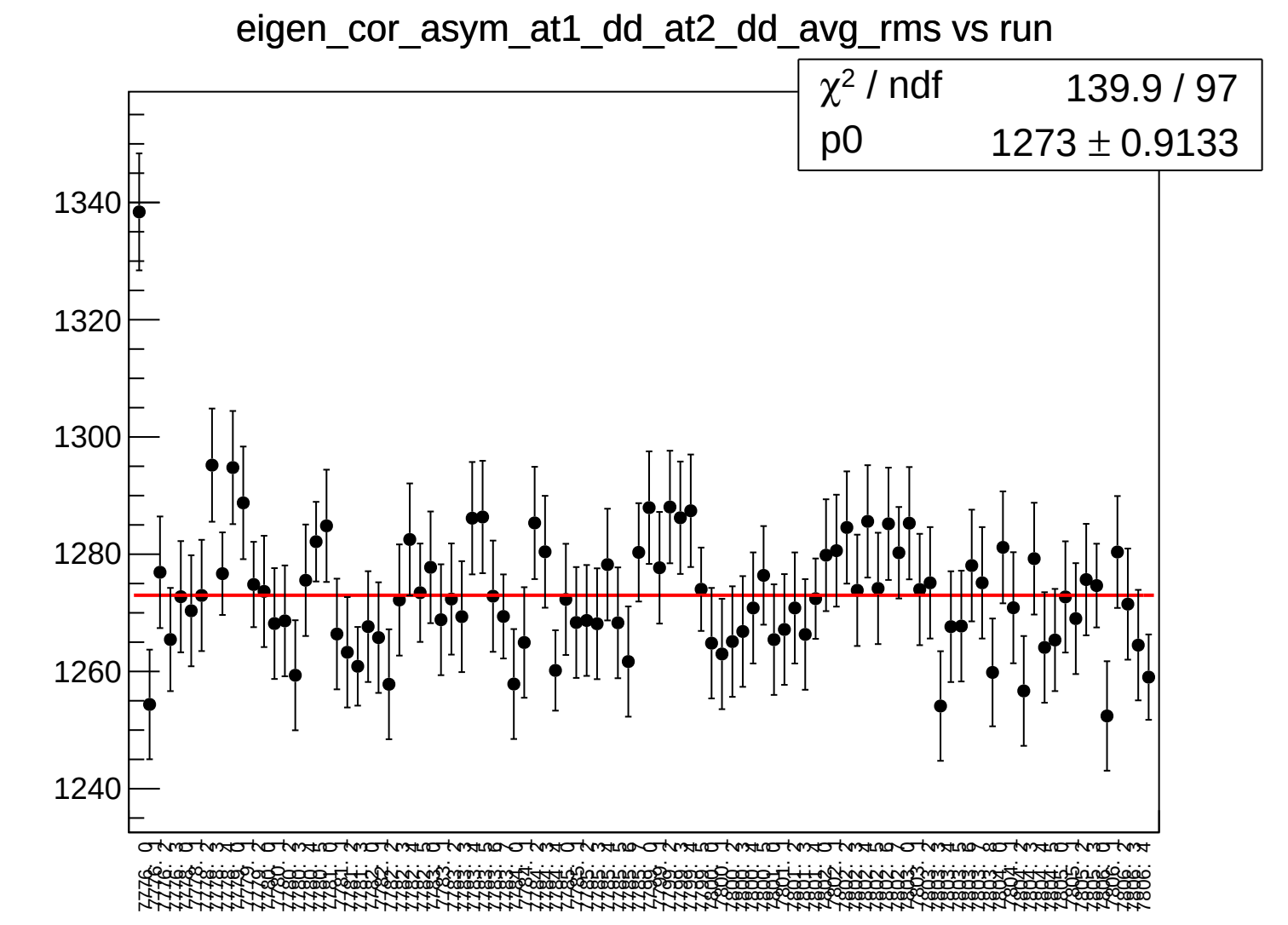

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 139.9 / 97
p0 1273 ± 0.9133
1340
1320
1300
1280
1260
1240

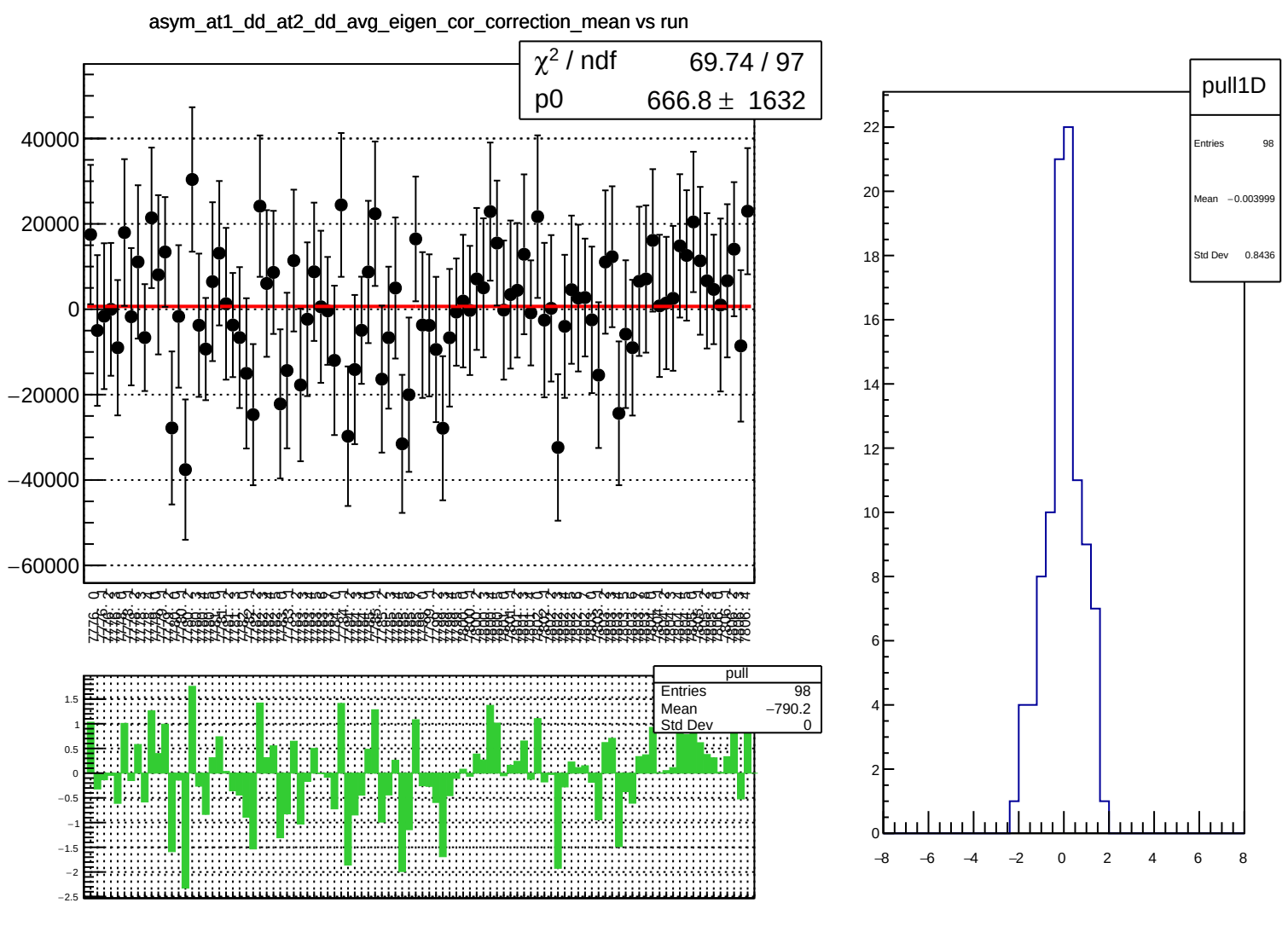

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 69.74 / 97
p0 666.8 ± 1632
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −790.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

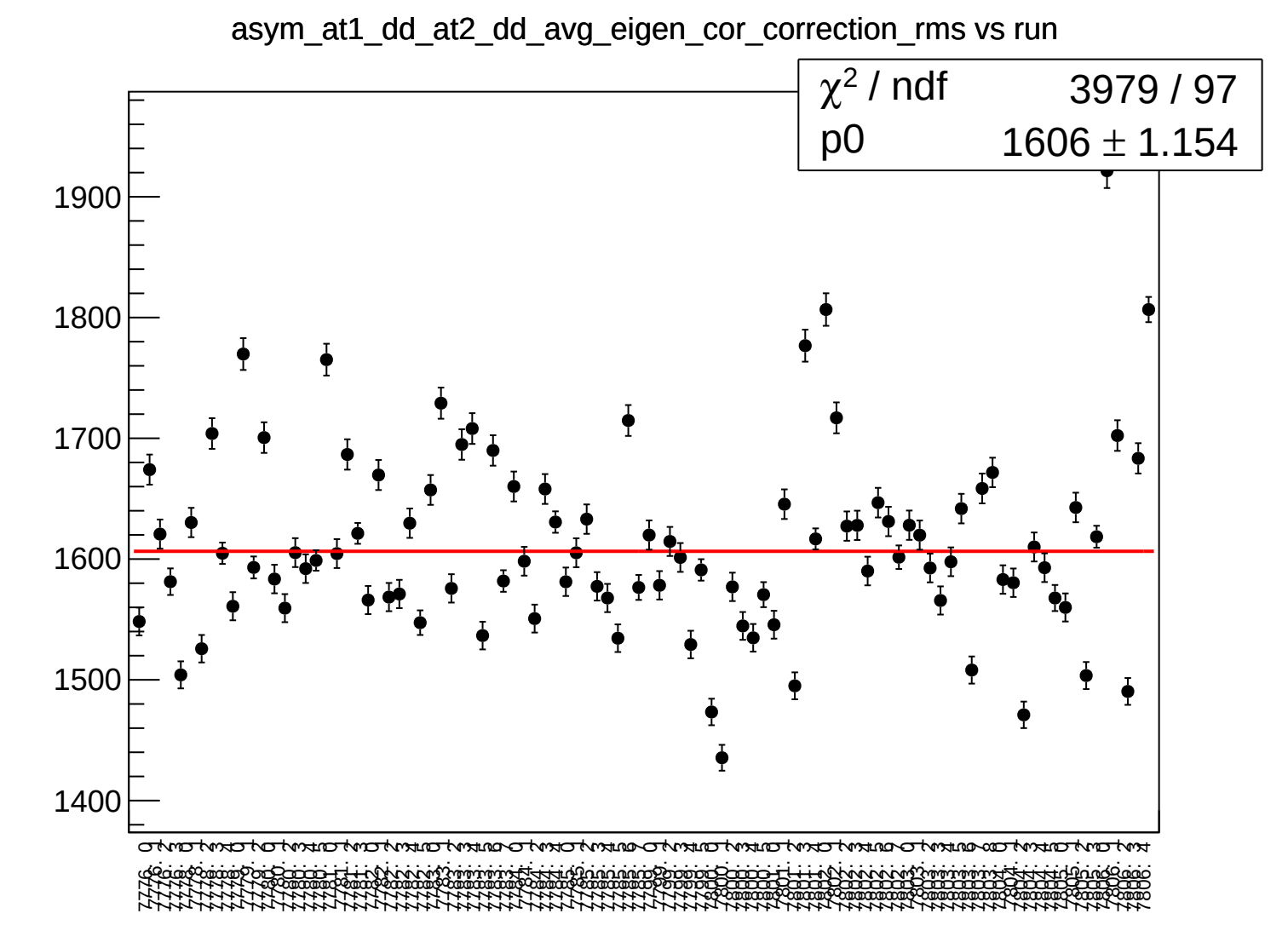

pull1D
Entries 98
Mean −0.003999
Std Dev 0.8436
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

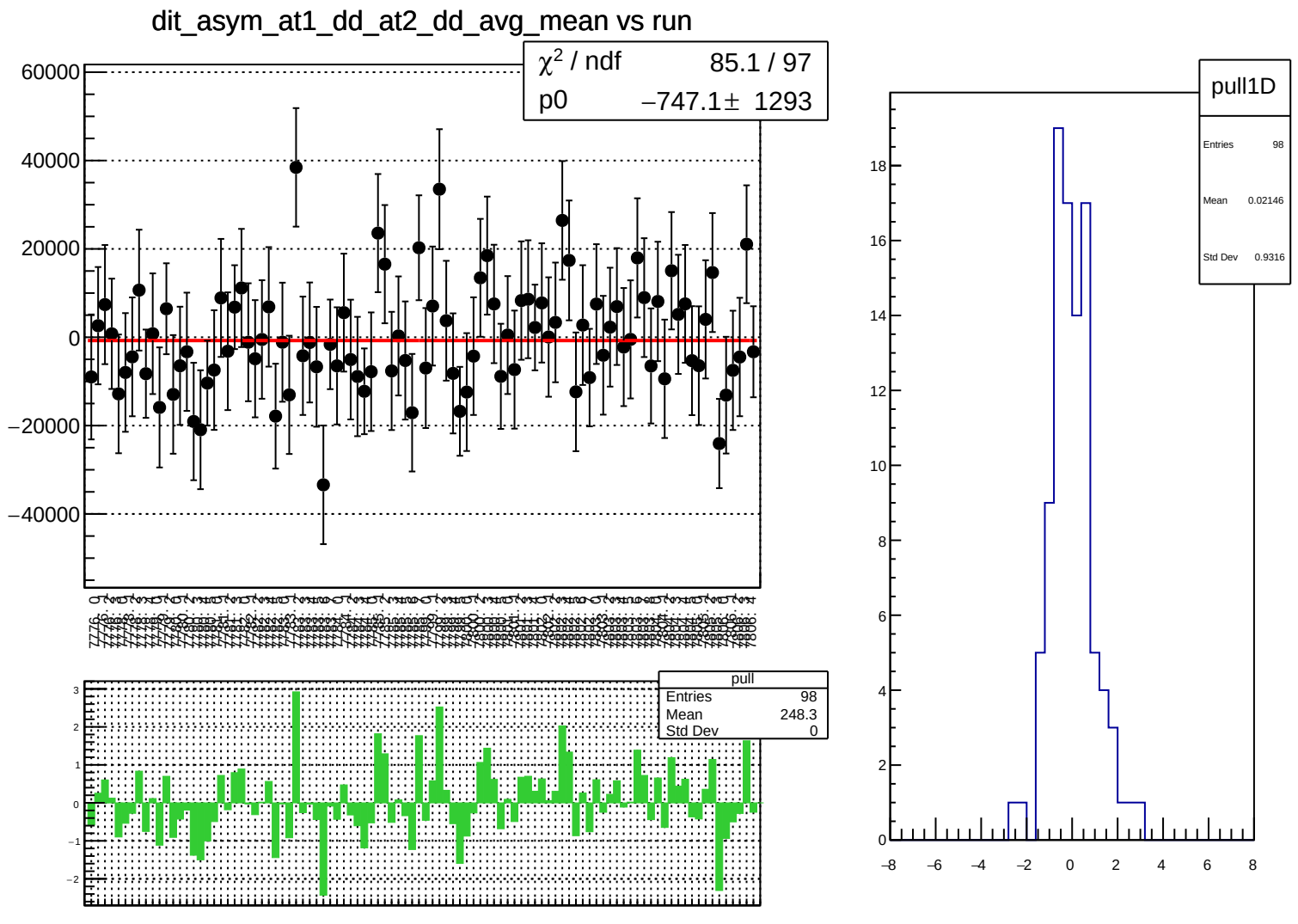

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 3979 / 97
p0 1606 ± 1.154
1900
1800
1700
1600
1500
1400

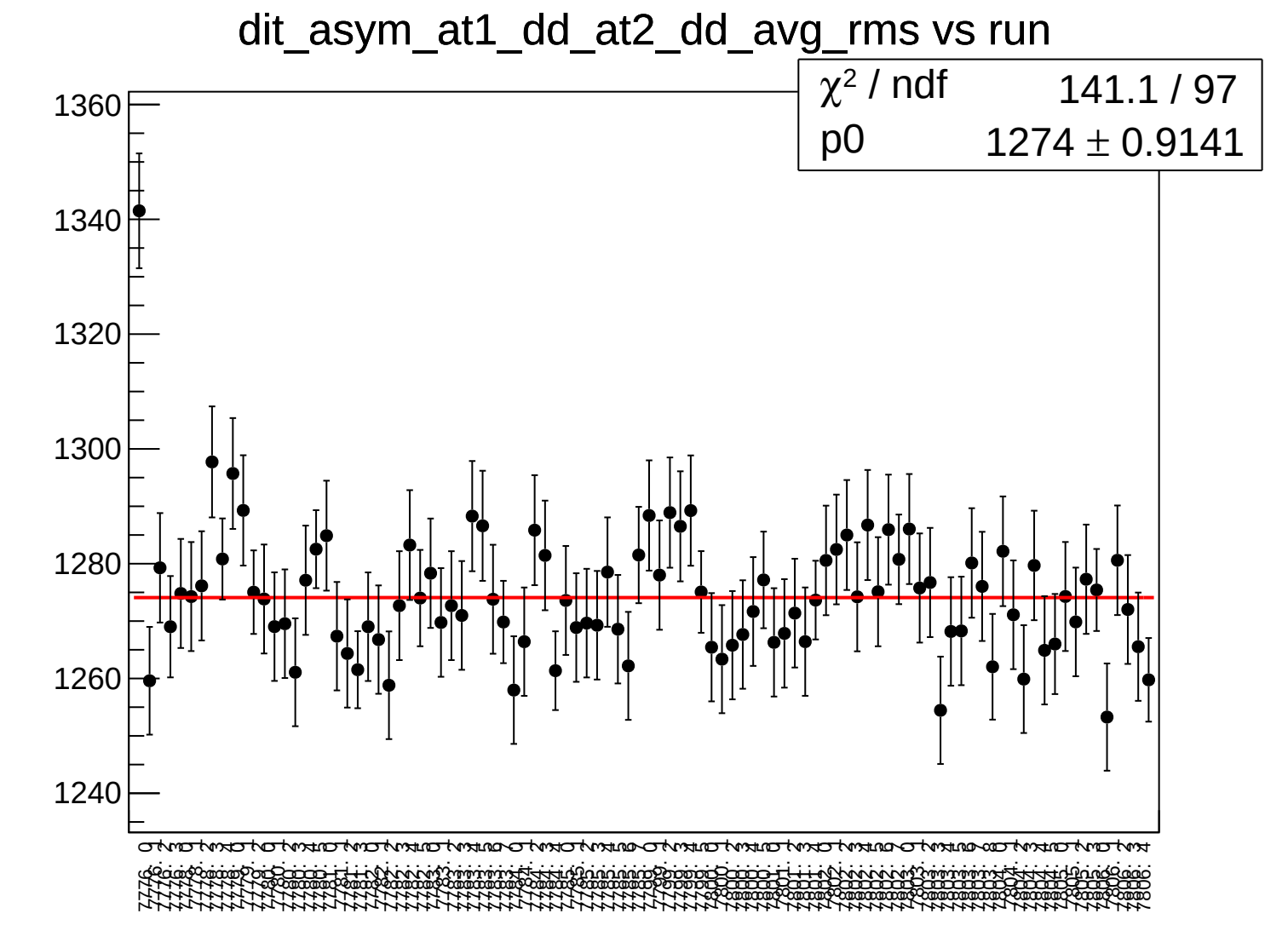

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.58 / 97
p0 −706.3 ± 1292
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 236.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02172
Std Dev 0.9288
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

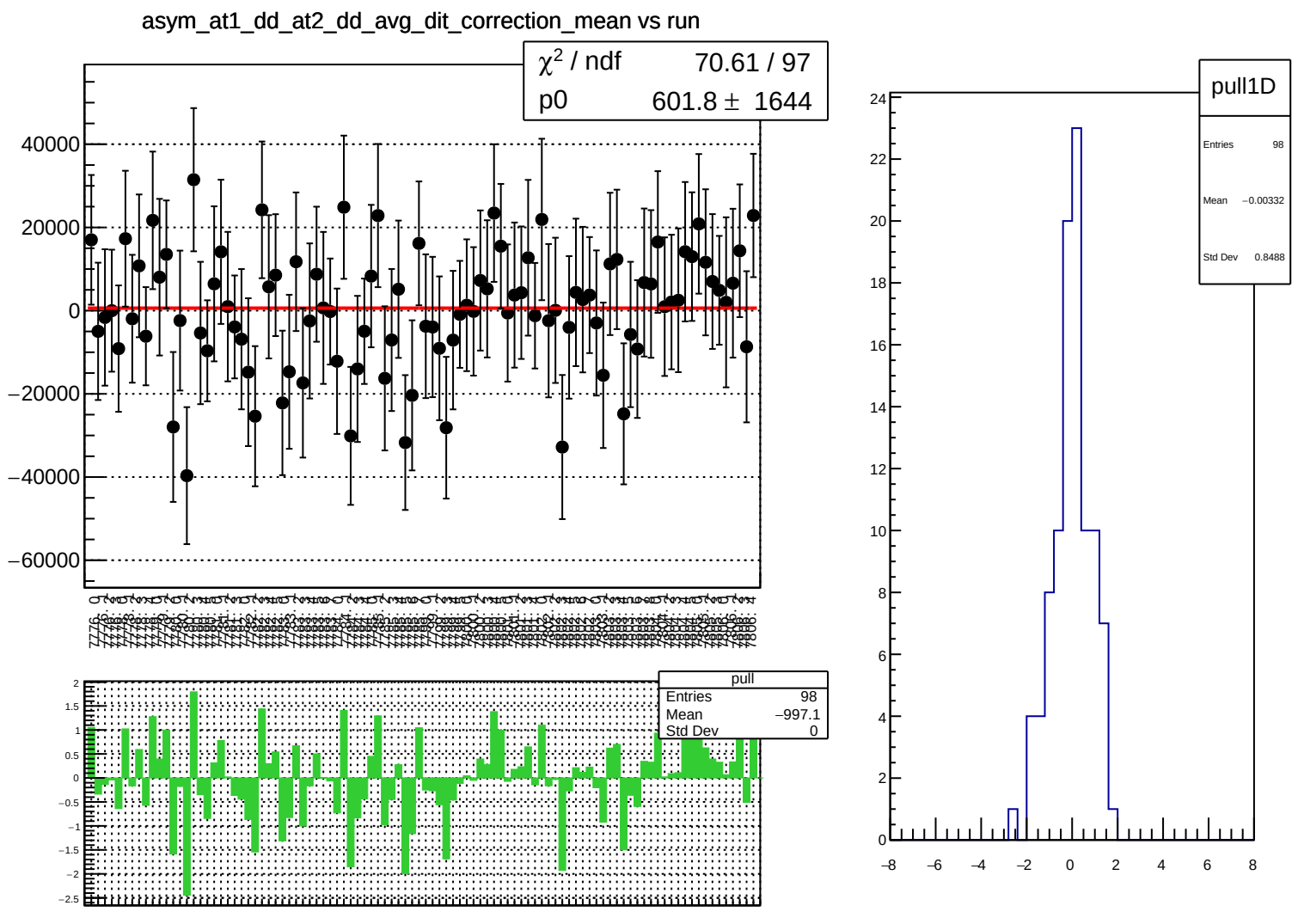

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 139.9 / 97
p0 1273 ± 0.9133
1340
1320
1300
1280
1260
1240

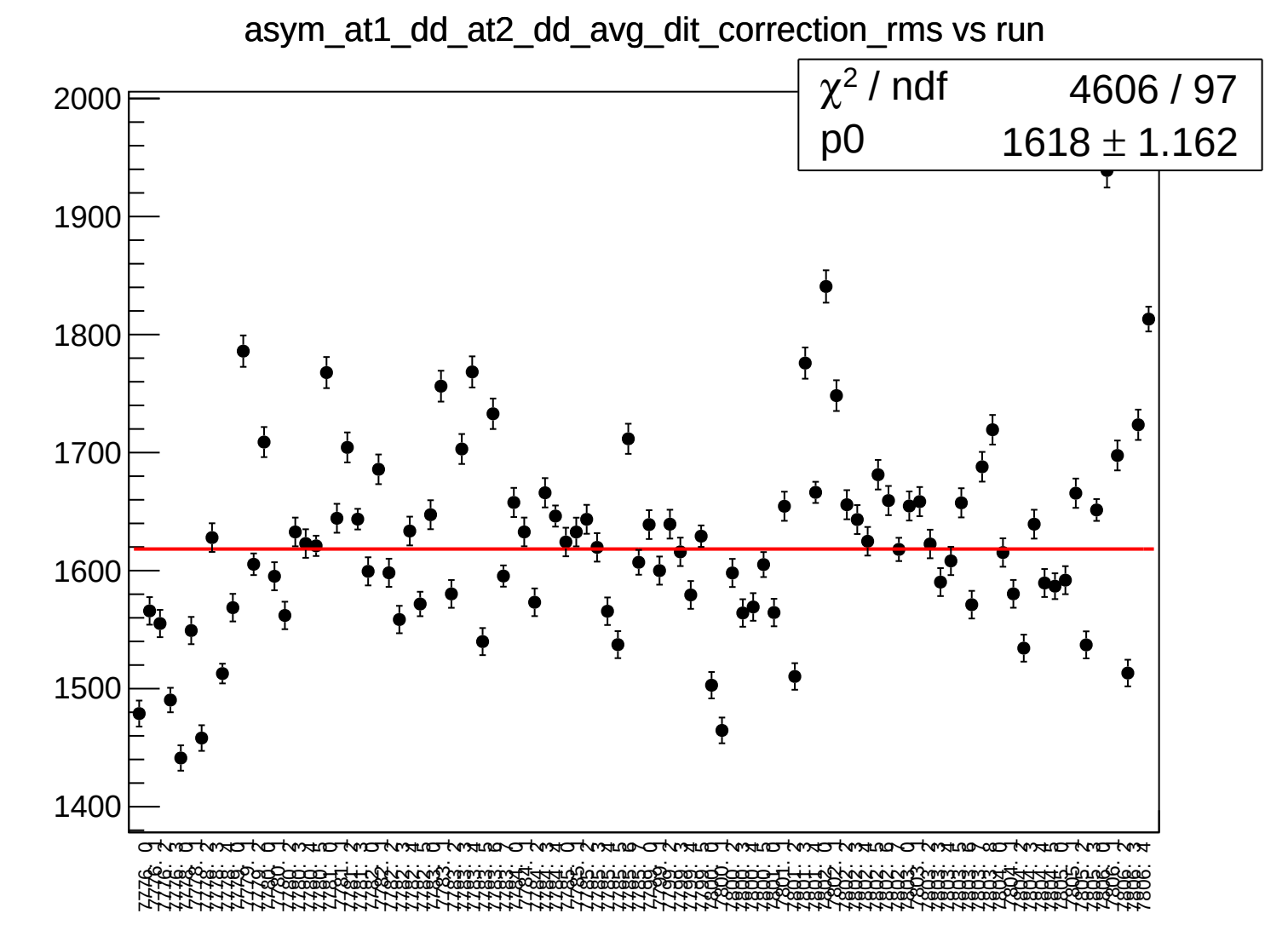

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.74 / 97
p0 666.8 ± 1632
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −790.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 98
Mean −0.003999
Std Dev 0.8436
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

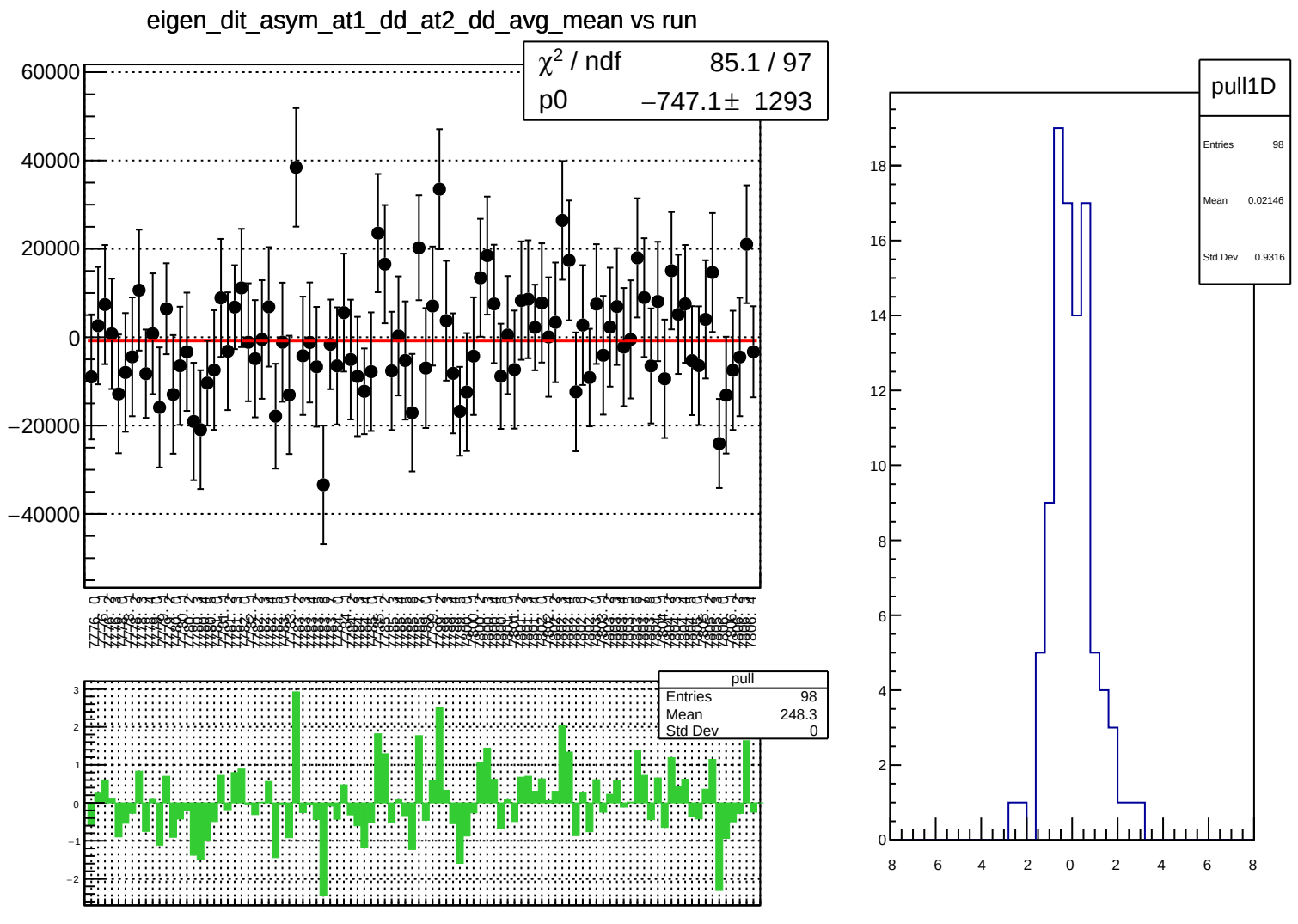

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3979 / 97
p0 1606 ± 1.154
1900
1800
1700
1600
1500
1400

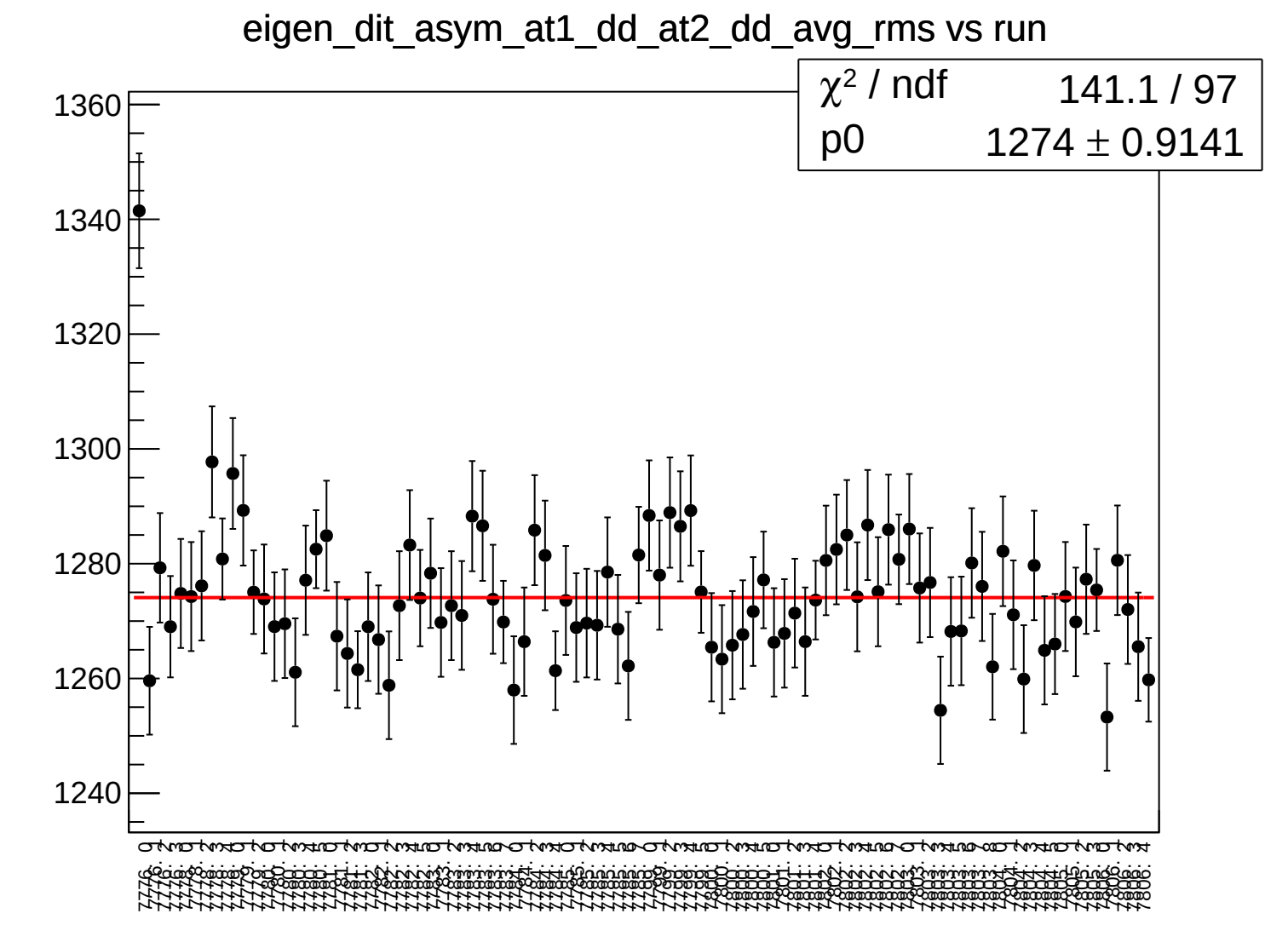

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.1 / 97
p0 −747.1± 1293
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 248.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02146
Std Dev 0.9316
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

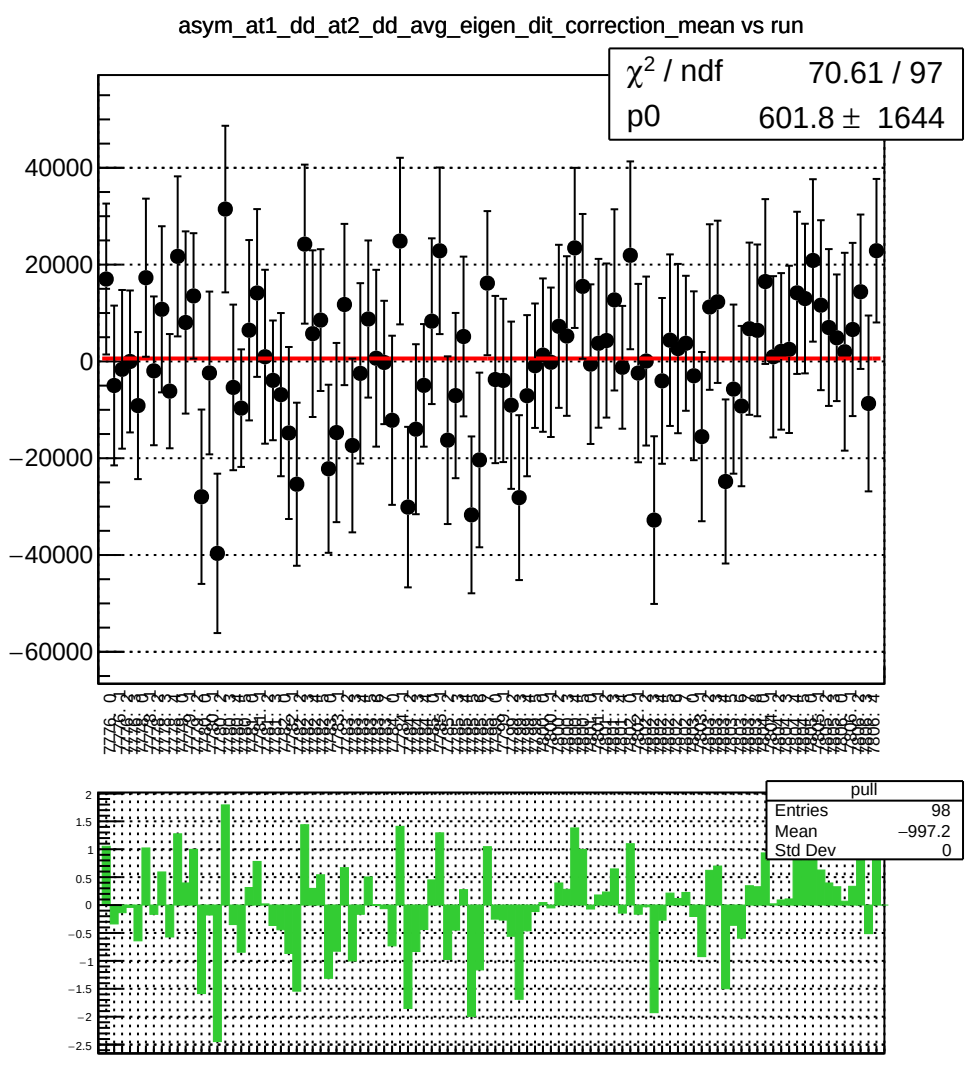

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 141.1 / 97
p0 1274 ± 0.9141
1360
1340
1320
1300
1280
1260
1240

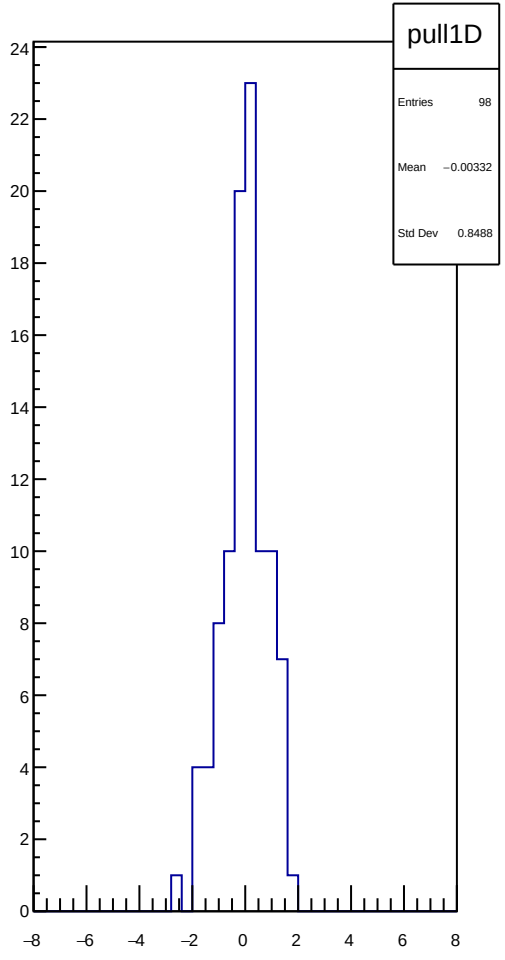

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 70.61 / 97
p0 601.8 ± 1644
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −997.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 98
Mean −0.00332
Std Dev 0.8488
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

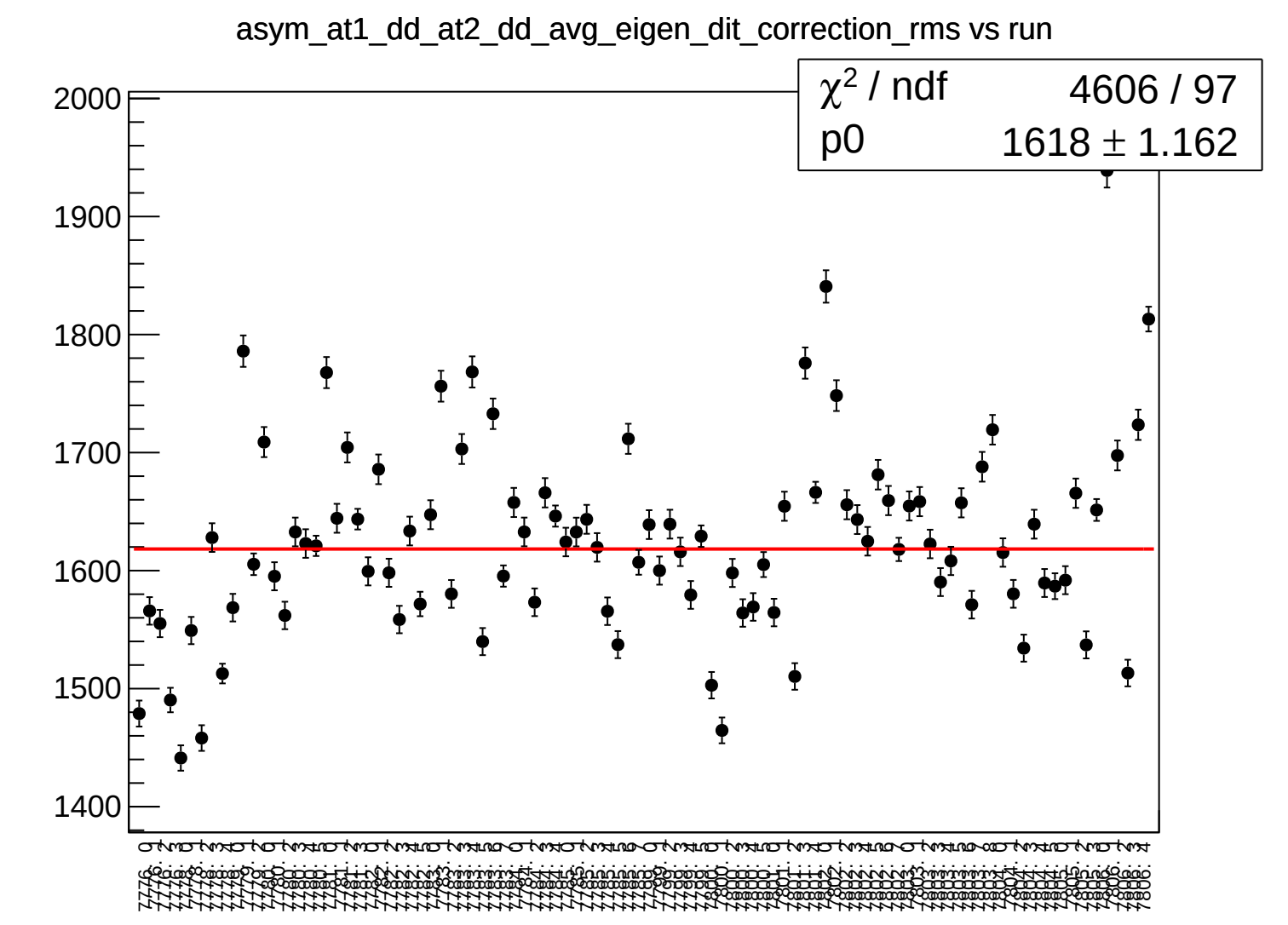

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 4606 / 97
p0 1618 ± 1.162
2000
1900
1800
1700
1600
1500
1400

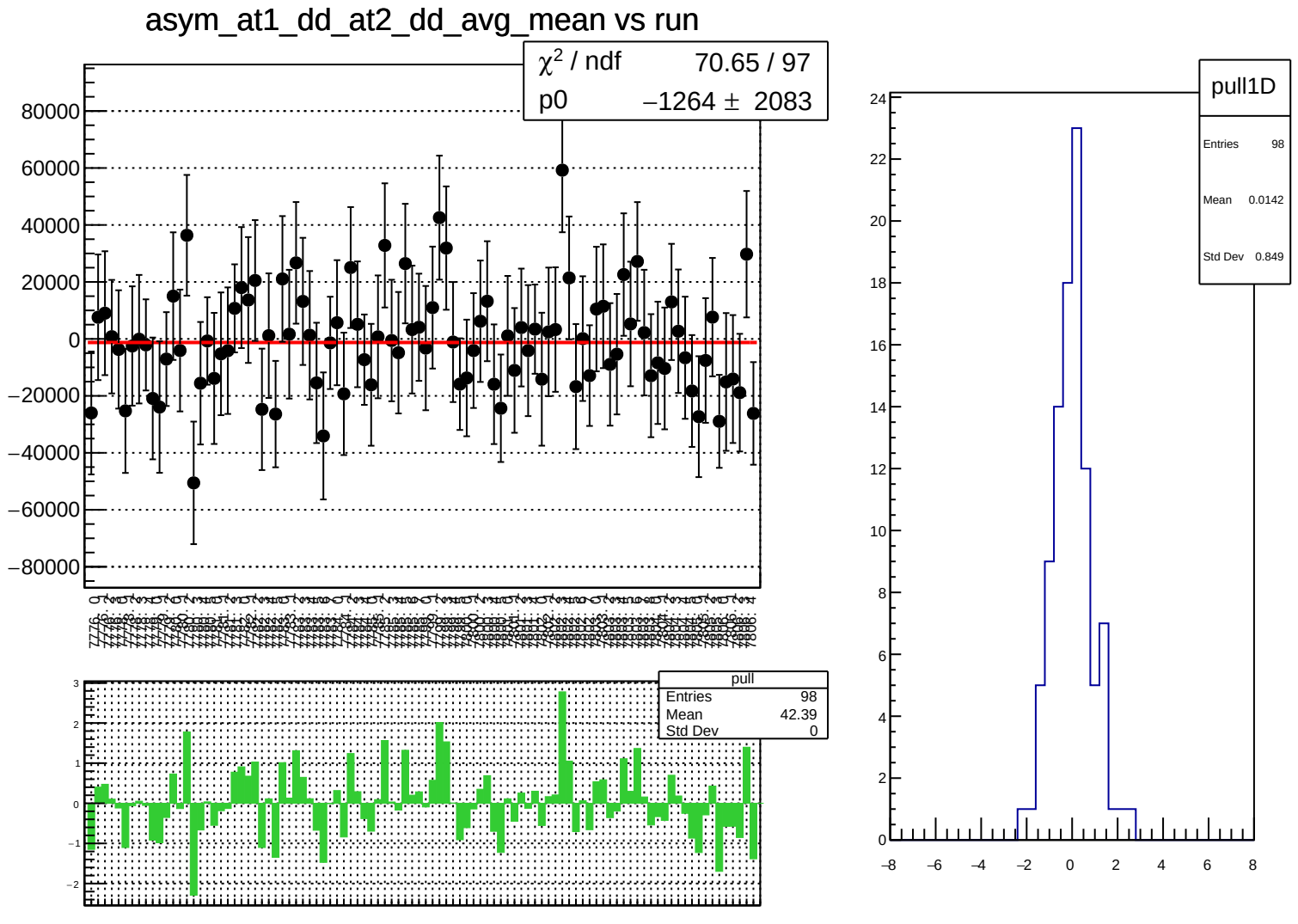

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.1 / 97
p0 −747.1± 1293
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 248.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02146
Std Dev 0.9316
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

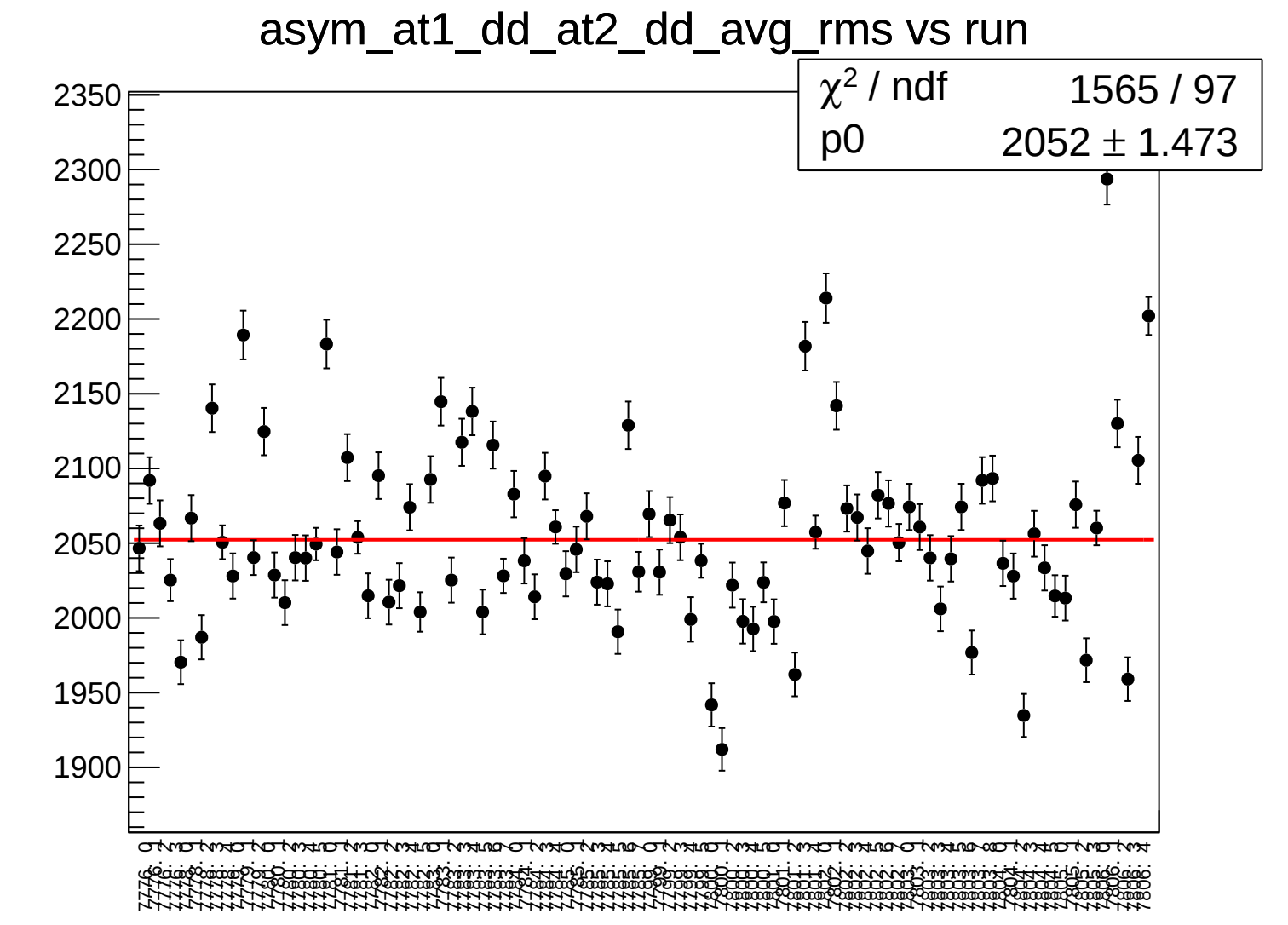

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 141.1 / 97
p0 1274 ± 0.9141
1360
1340
1320
1300
1280
1260
1240

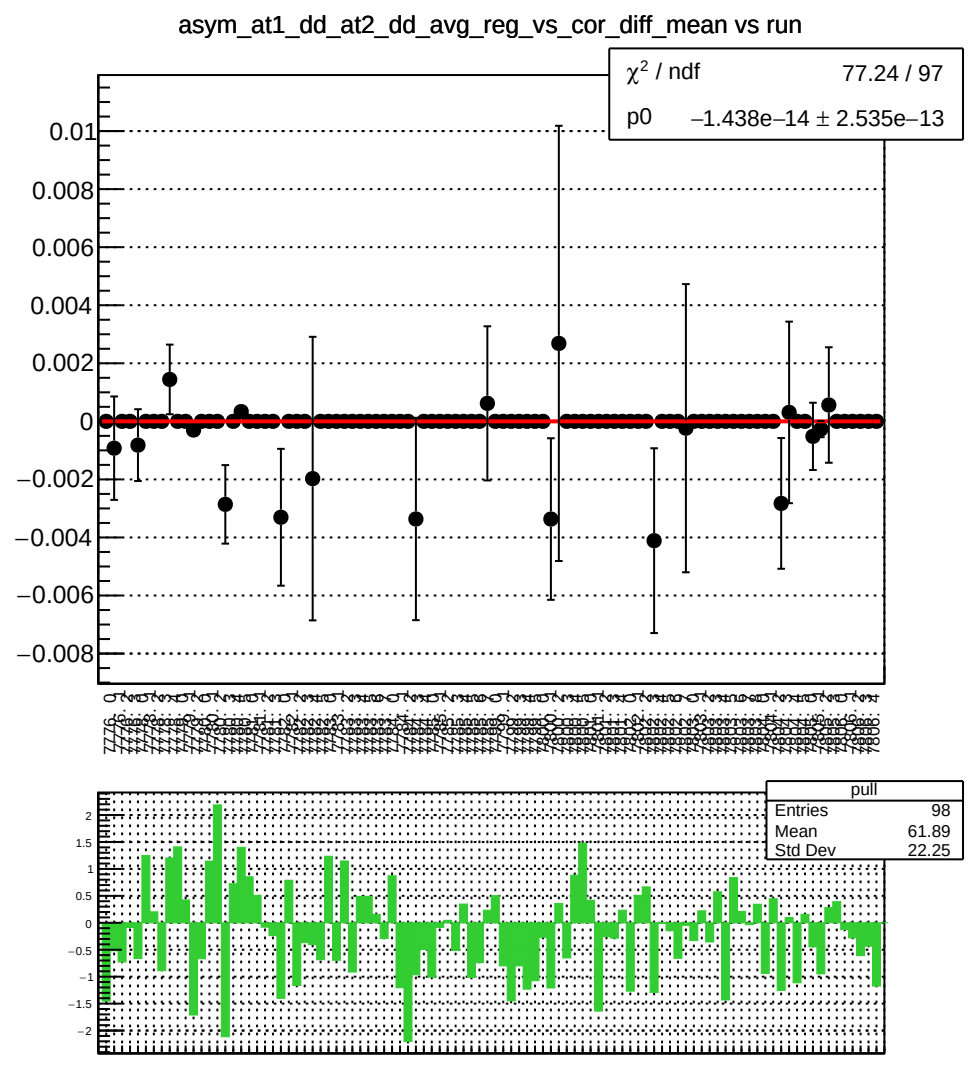

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.61 / 97
p0 601.8 ± 1644
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −997.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

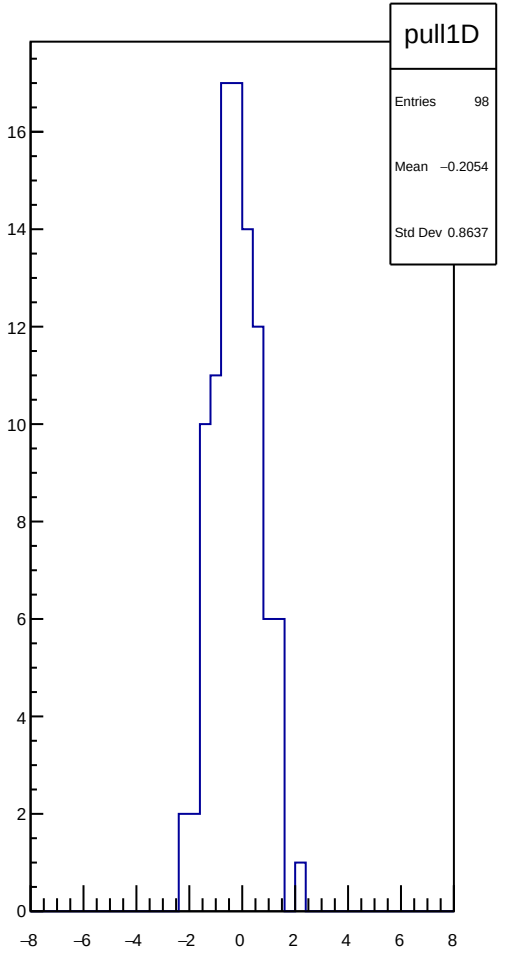

pull1D
Entries 98
Mean −0.00332
Std Dev 0.8488
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

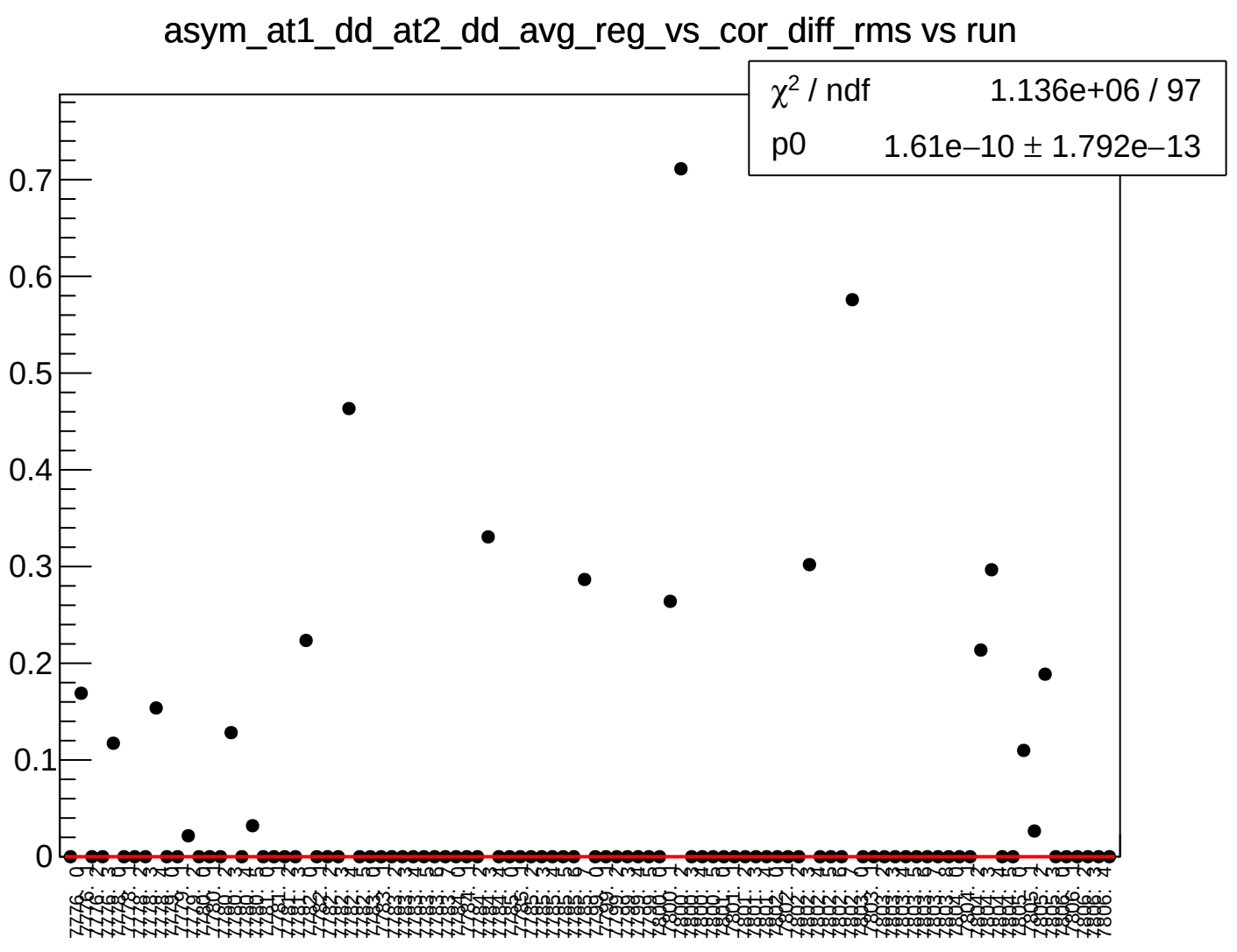

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4606 / 97
p0 1618 ± 1.162
2000
1900
1800
1700
1600
1500
1400

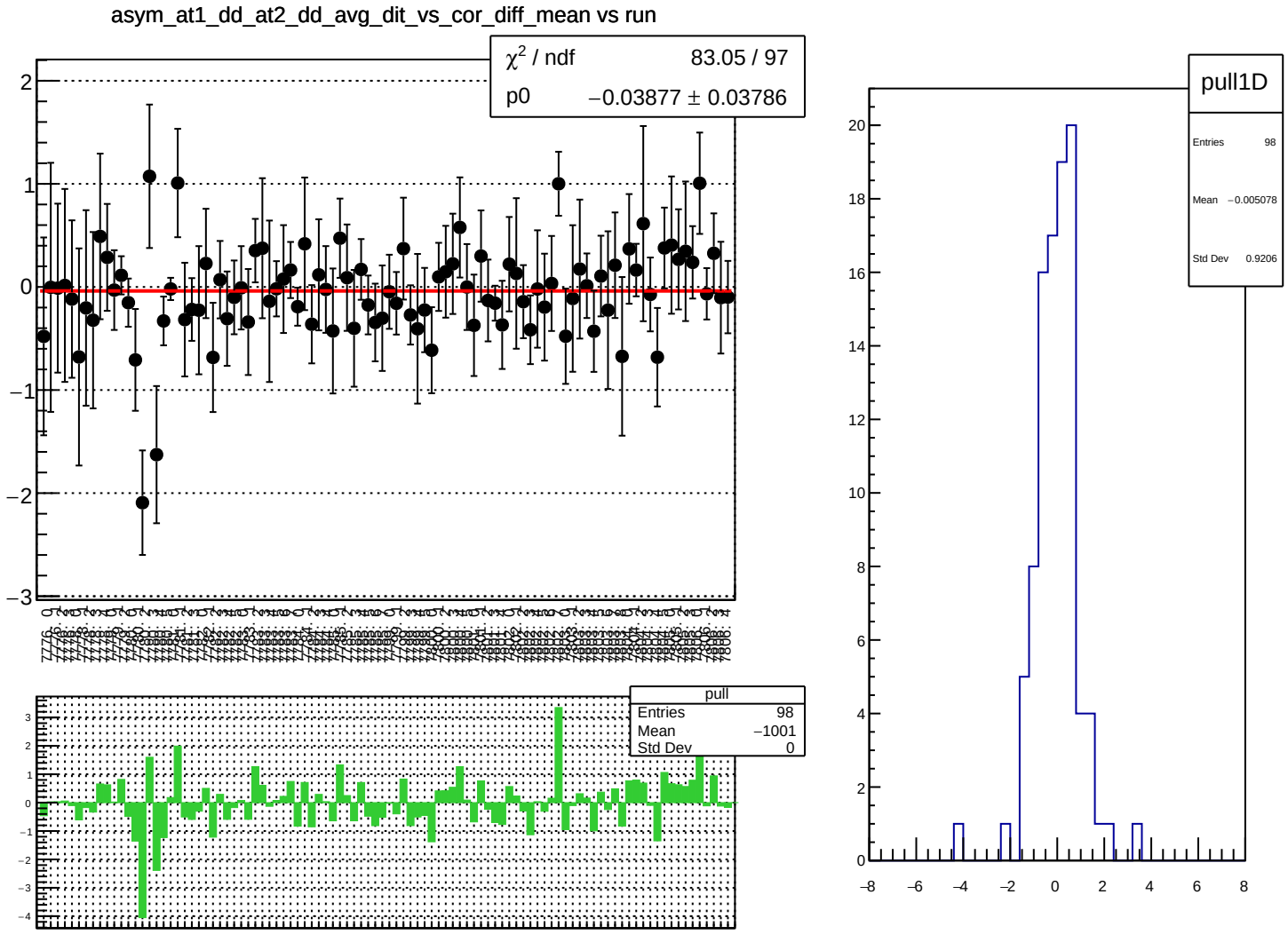

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 70.65 / 97
p0 −1264 ± 2083
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 42.39
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.0142
Std Dev 0.849
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

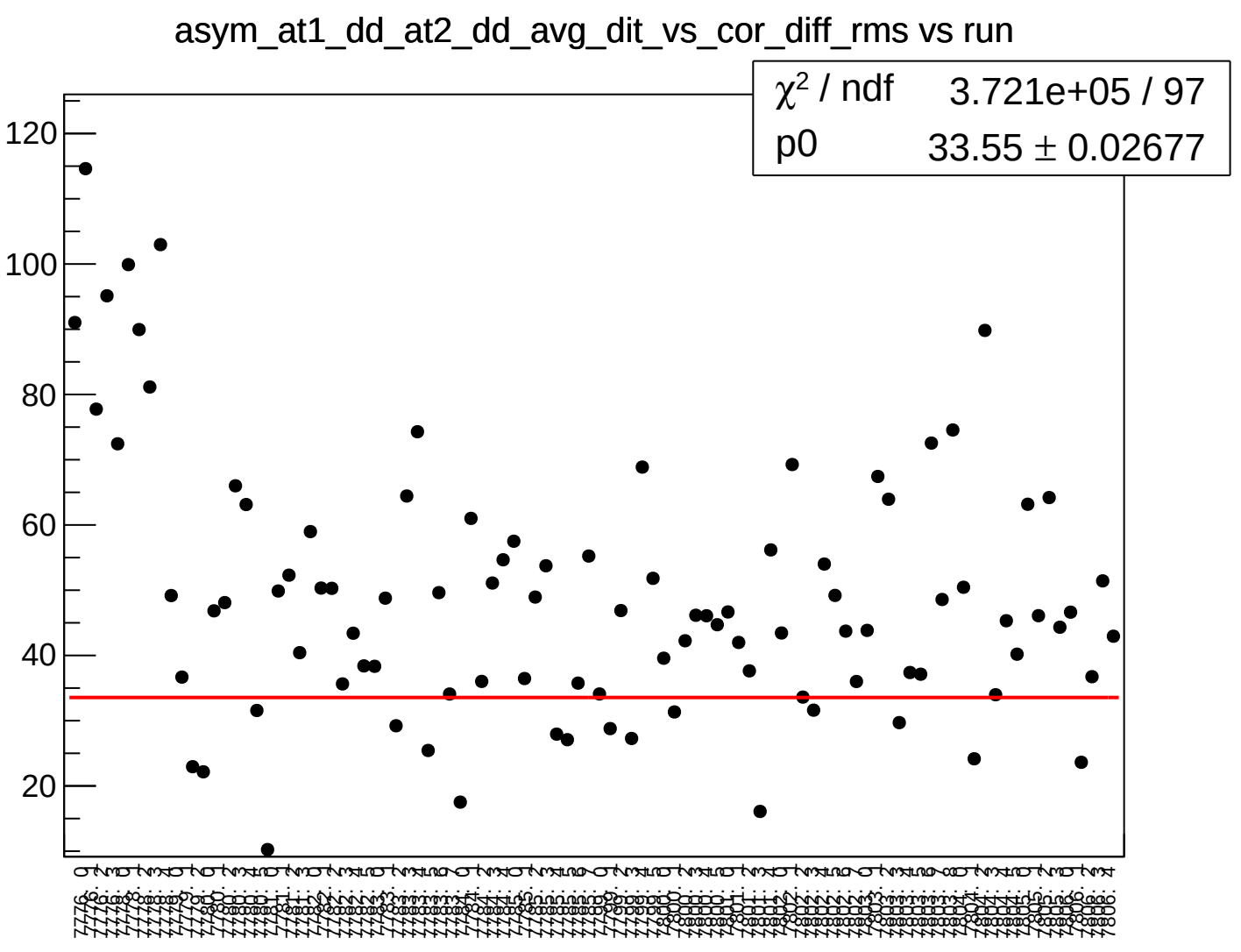

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1565 / 97
p0 2052 ± 1.473
2350
2300
2250
2200
2150
2100
2050
2000
1950
1900

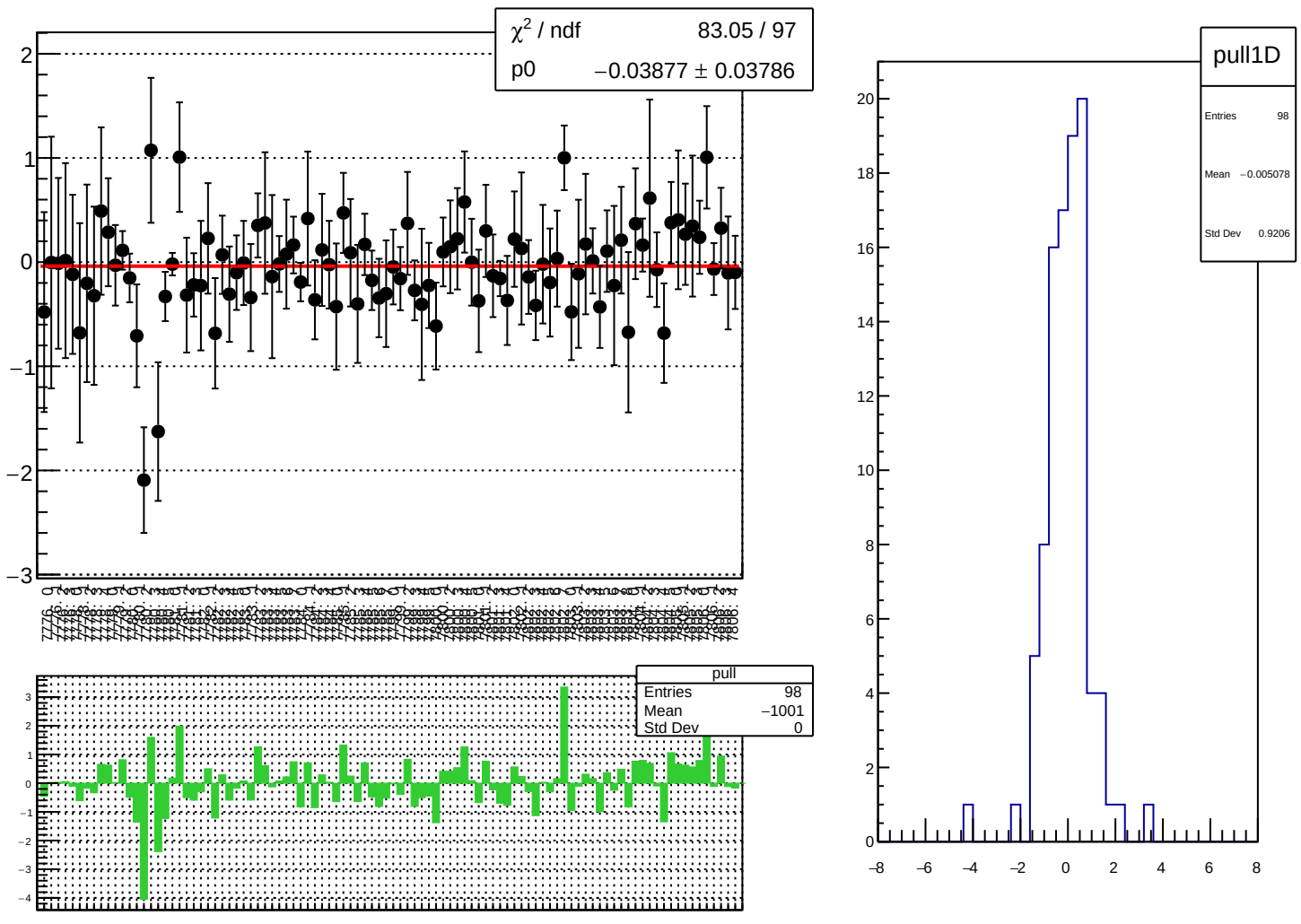

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.24 / 97
p0 −1.438e−14 ± 2.535e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 98
Mean 61.89
Std Dev 22.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

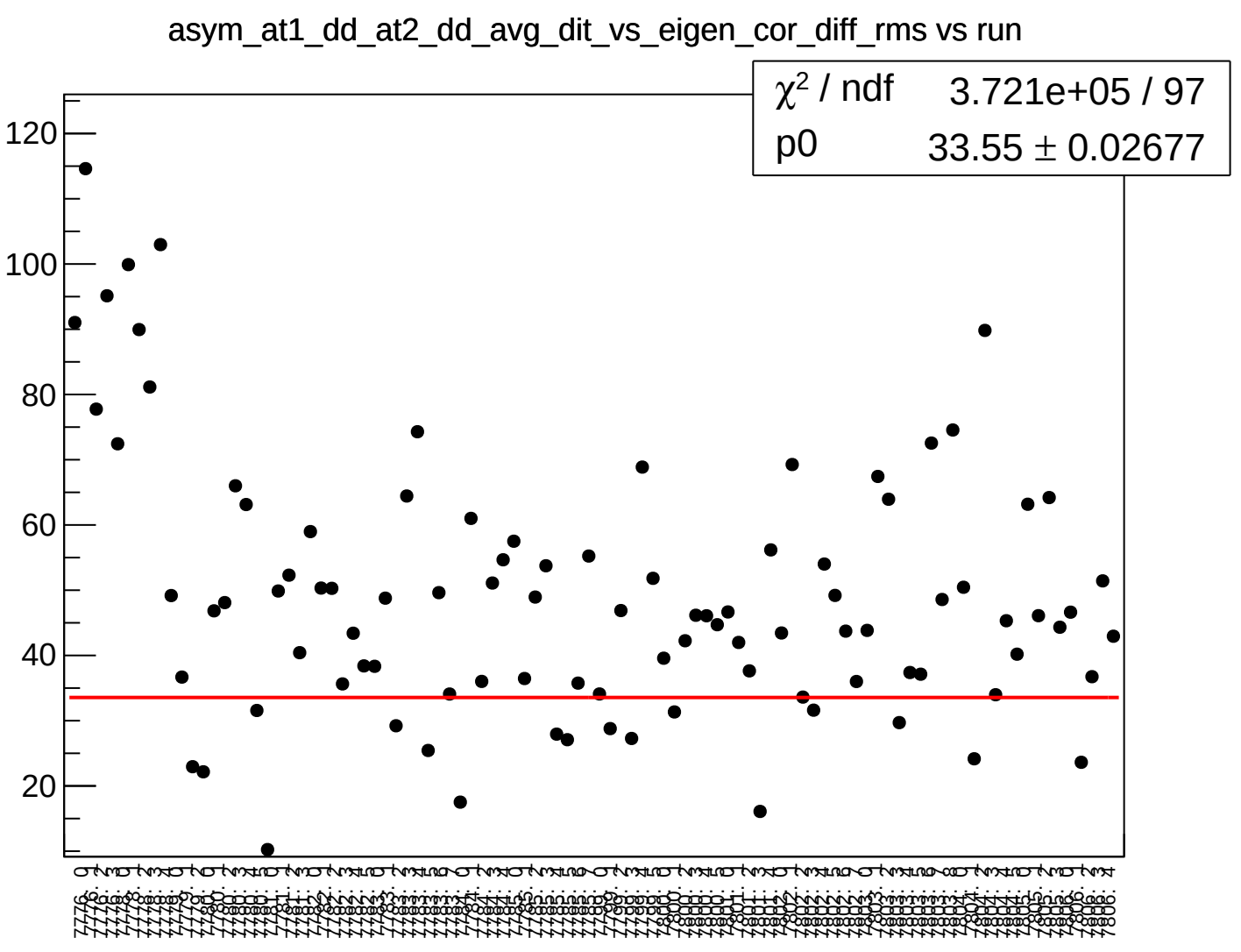

pull1D
Entries 98
Mean −0.2054
Std Dev 0.8637
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

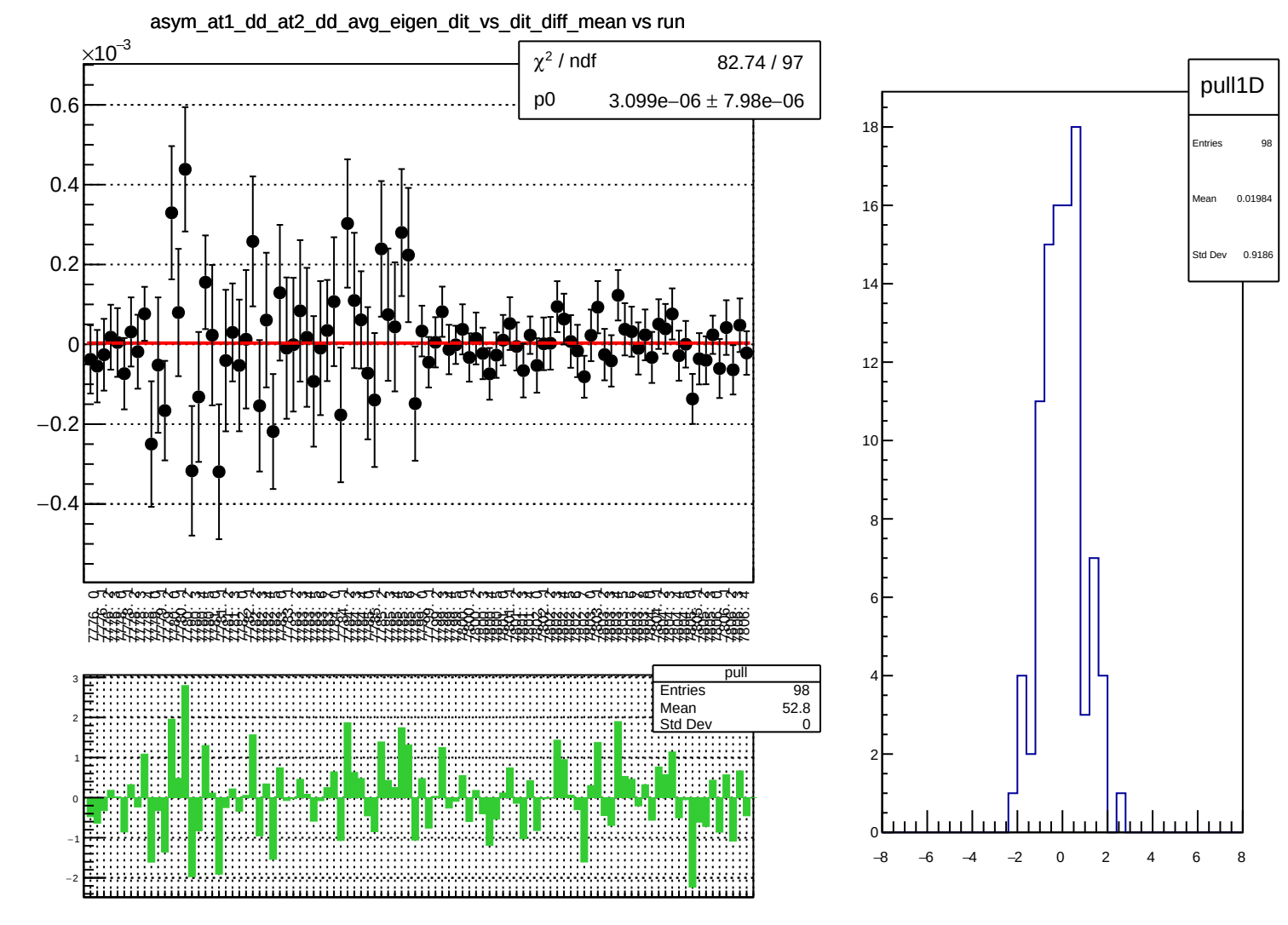

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.136e+06 / 97
p0 1.61e−10 ± 1.792e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

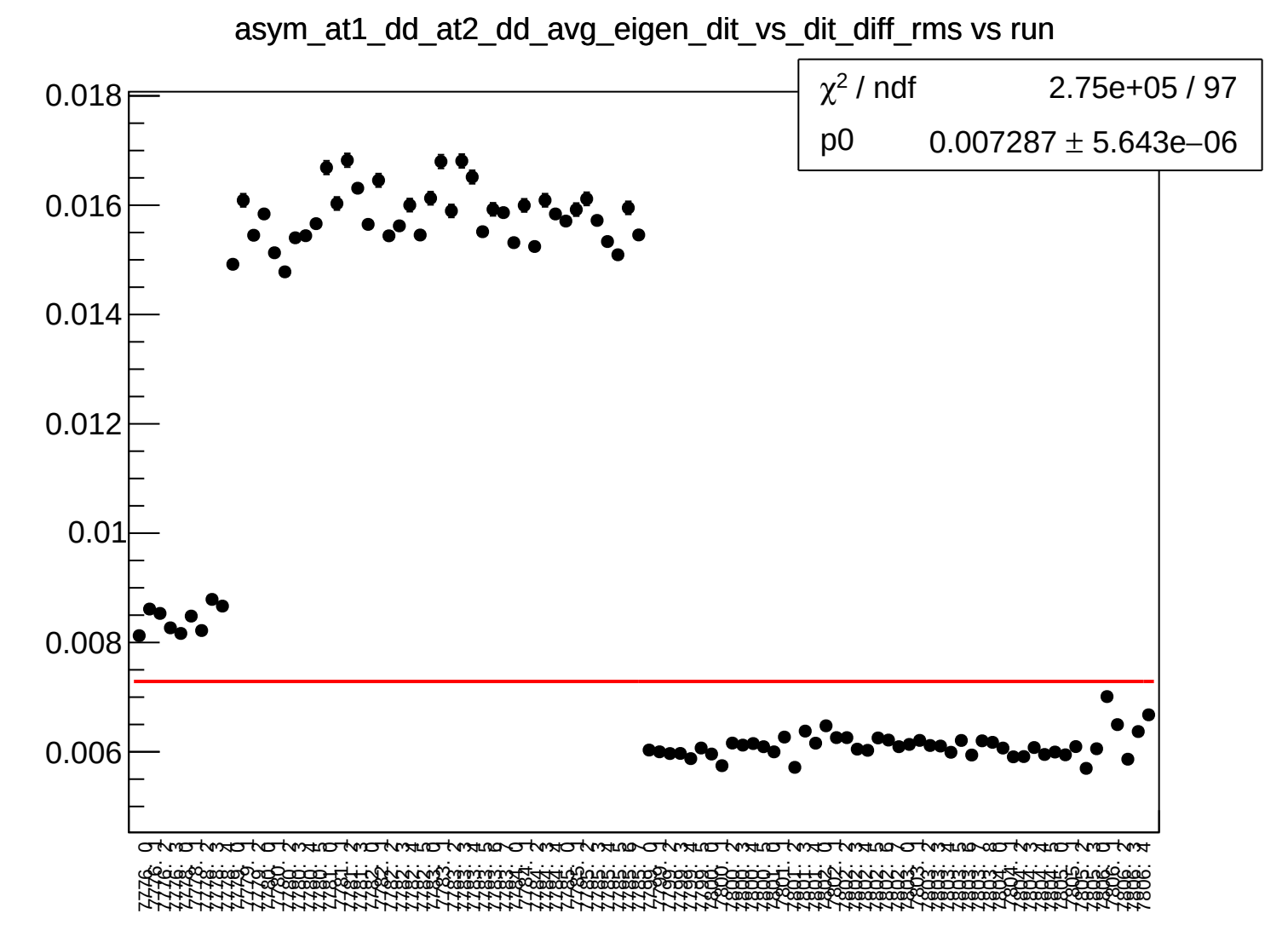

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.05 / 97
p0 −0.03877 ± 0.03786
pull
Entries 98
Mean −1001
Std Dev 0
pull1D
Entries 98
Mean −0.005078
Std Dev 0.9206

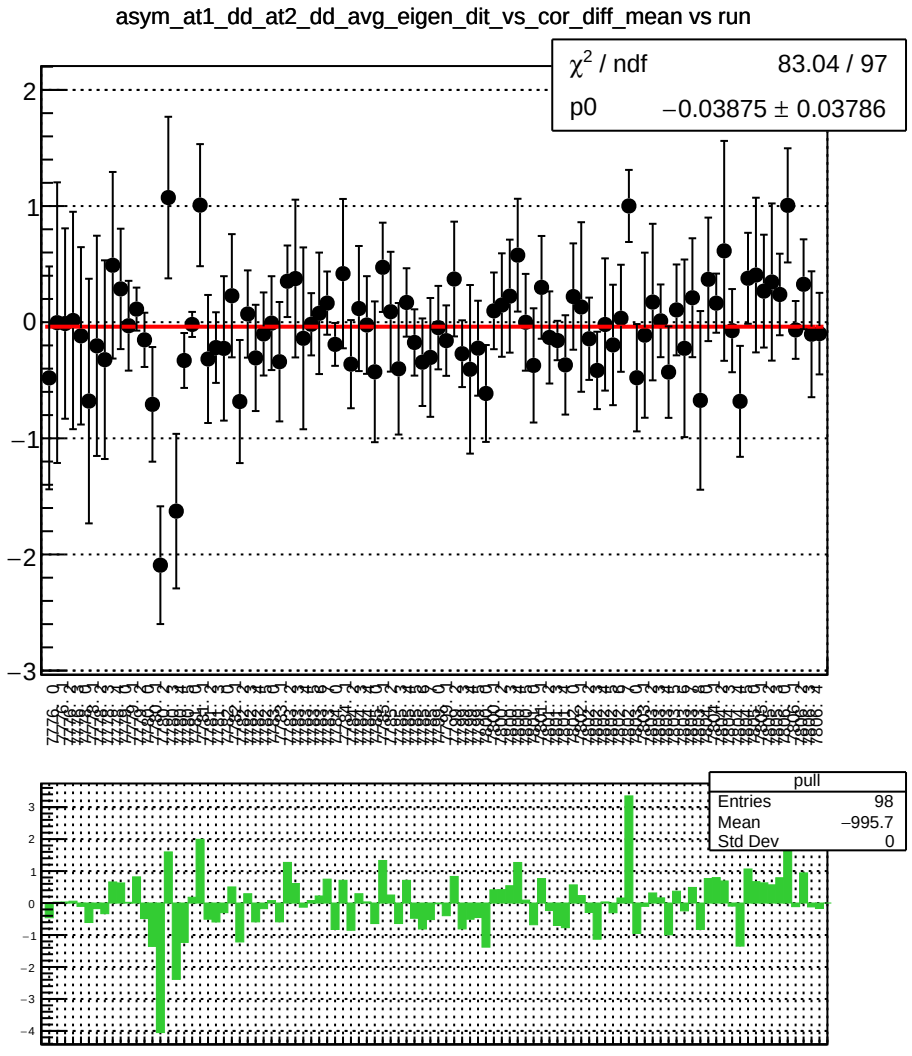

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.721e+05 / 97
p0 33.55 ± 0.02677
120
100
80
60
40
20

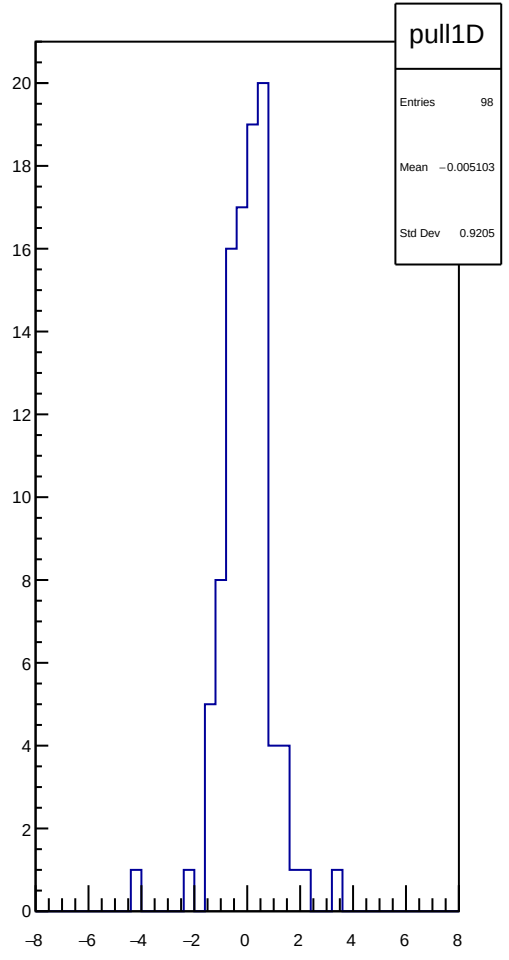

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.05 / 97
p0 −0.03877 ± 0.03786
pull
Entries 98
Mean −1001
Std Dev 0
pull1D
Entries 98
Mean −0.005078
Std Dev 0.9206

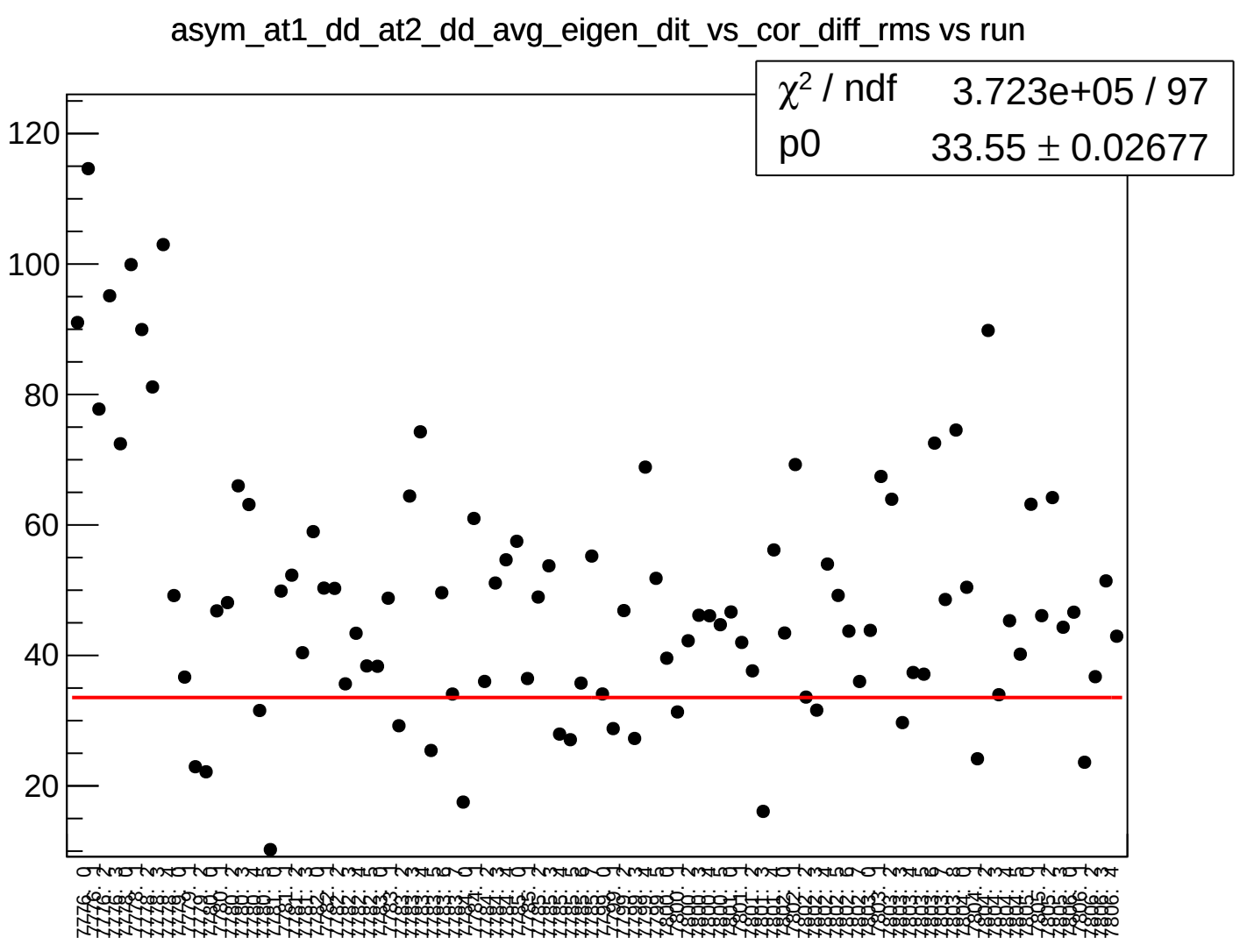

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.721e+05 / 97
p0 33.55 ± 0.02677
120
100
80
60
40
20

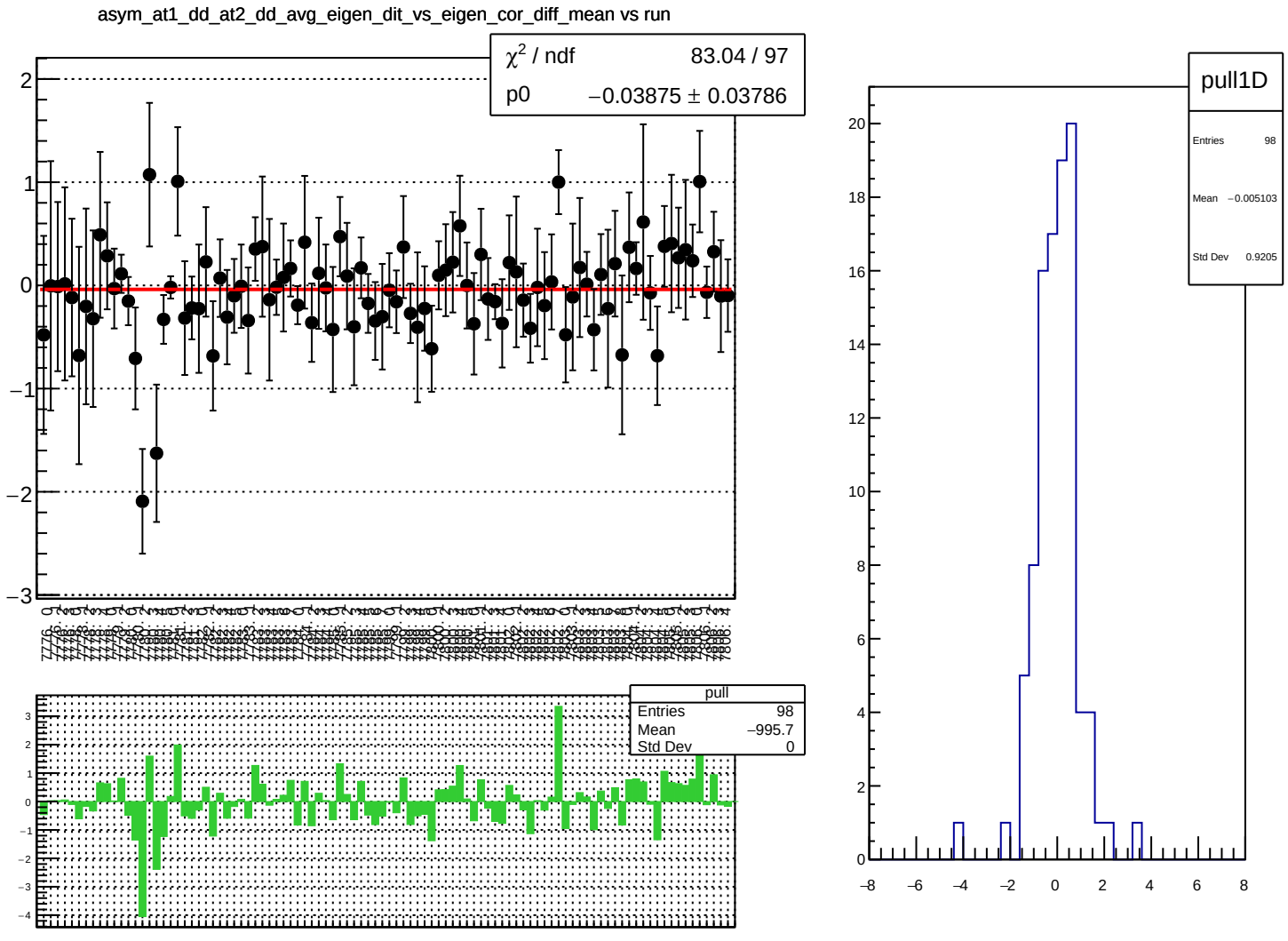

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.74 / 97
p0 3.099e−06 ± 7.98e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 98
Mean 52.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01984
Std Dev 0.9186
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

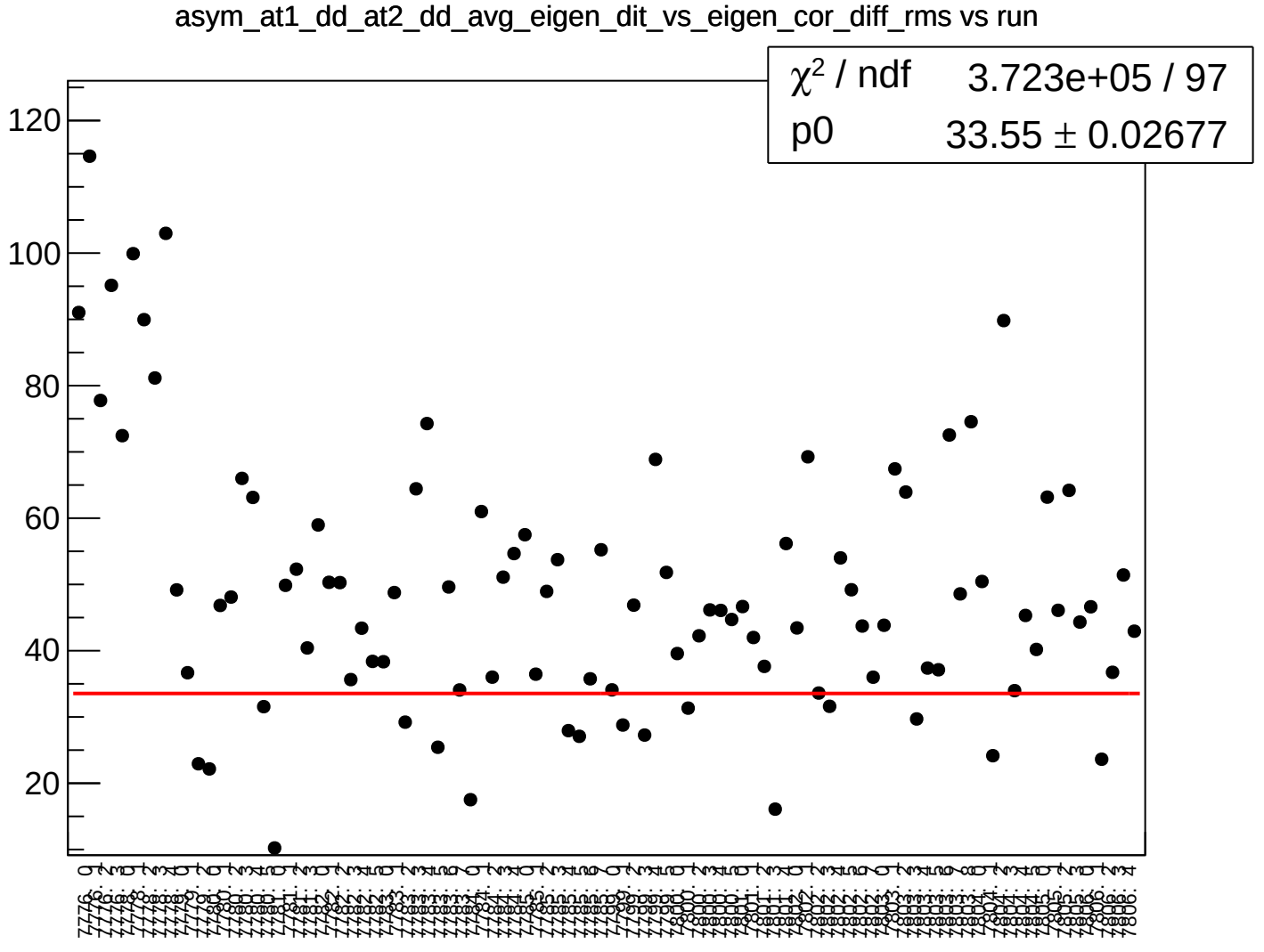

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.75e+05 / 97
p0 0.007287 ± 5.643e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

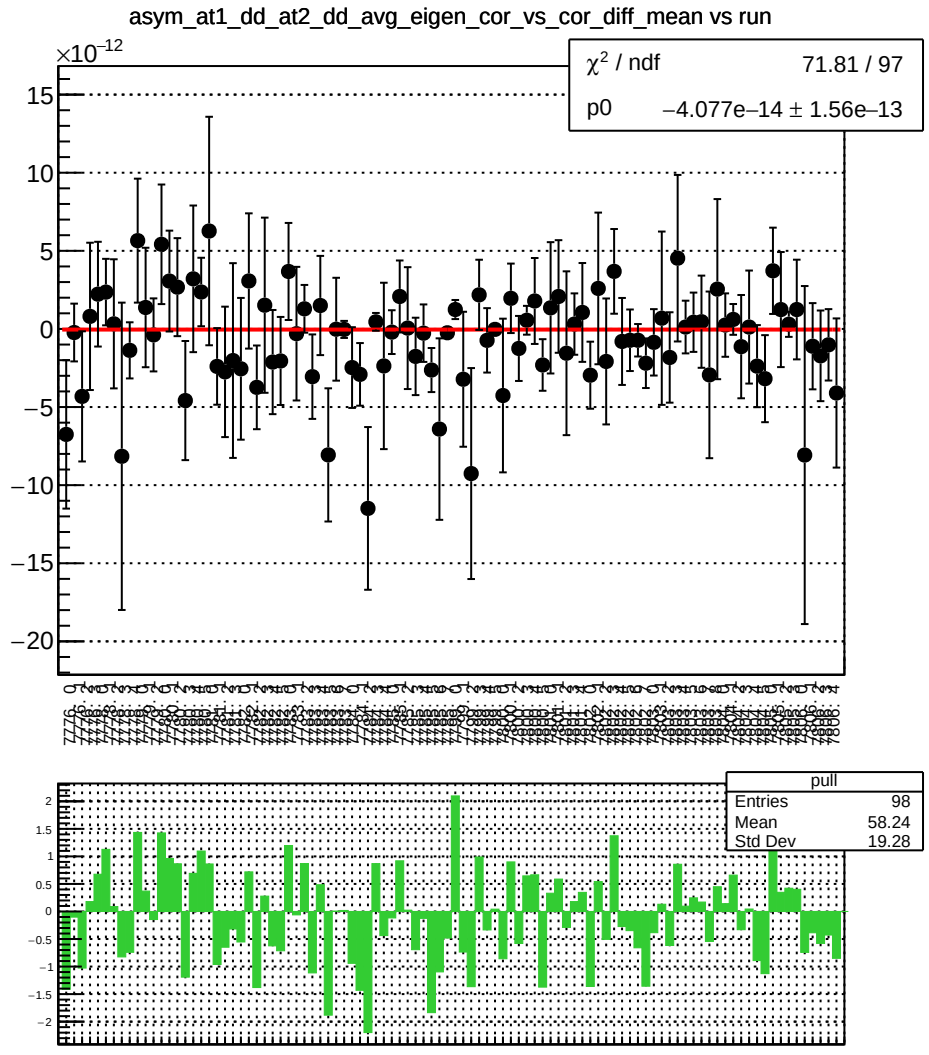

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.04 / 97
p0 −0.03875 ± 0.03786
pull
Entries 98
Mean −995.7
Std Dev 0

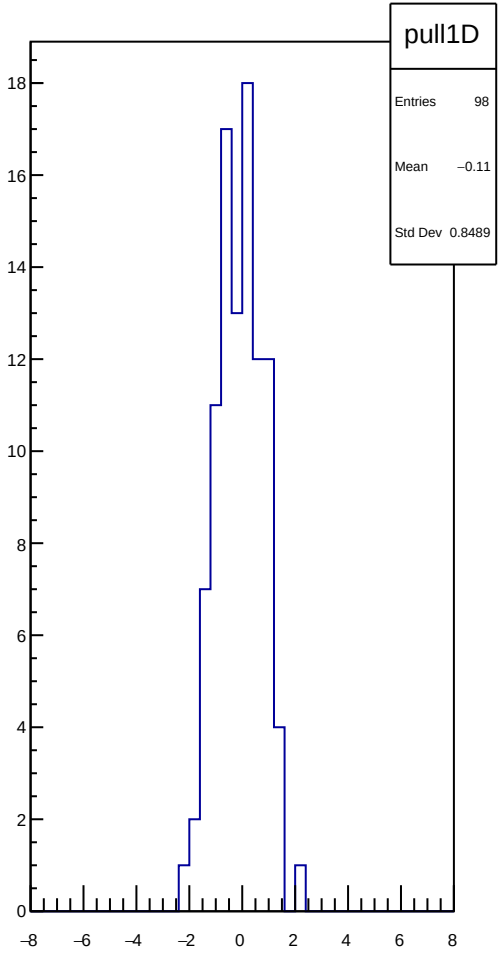

pull1D
Entries 98
Mean −0.005103
Std Dev 0.9205

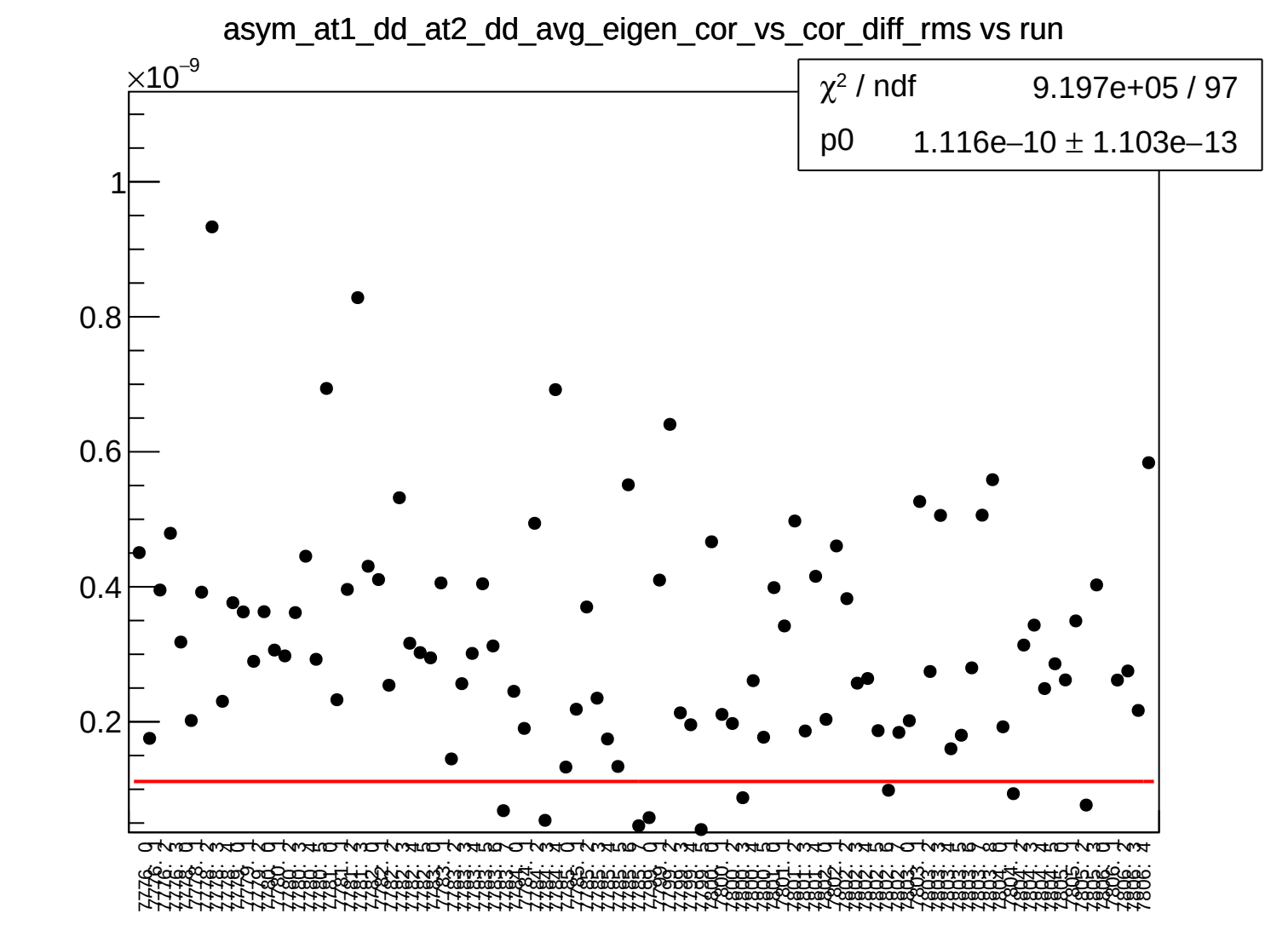

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.723e+05 / 97
p0 33.55 ± 0.02677
120
100
80
60
40
20

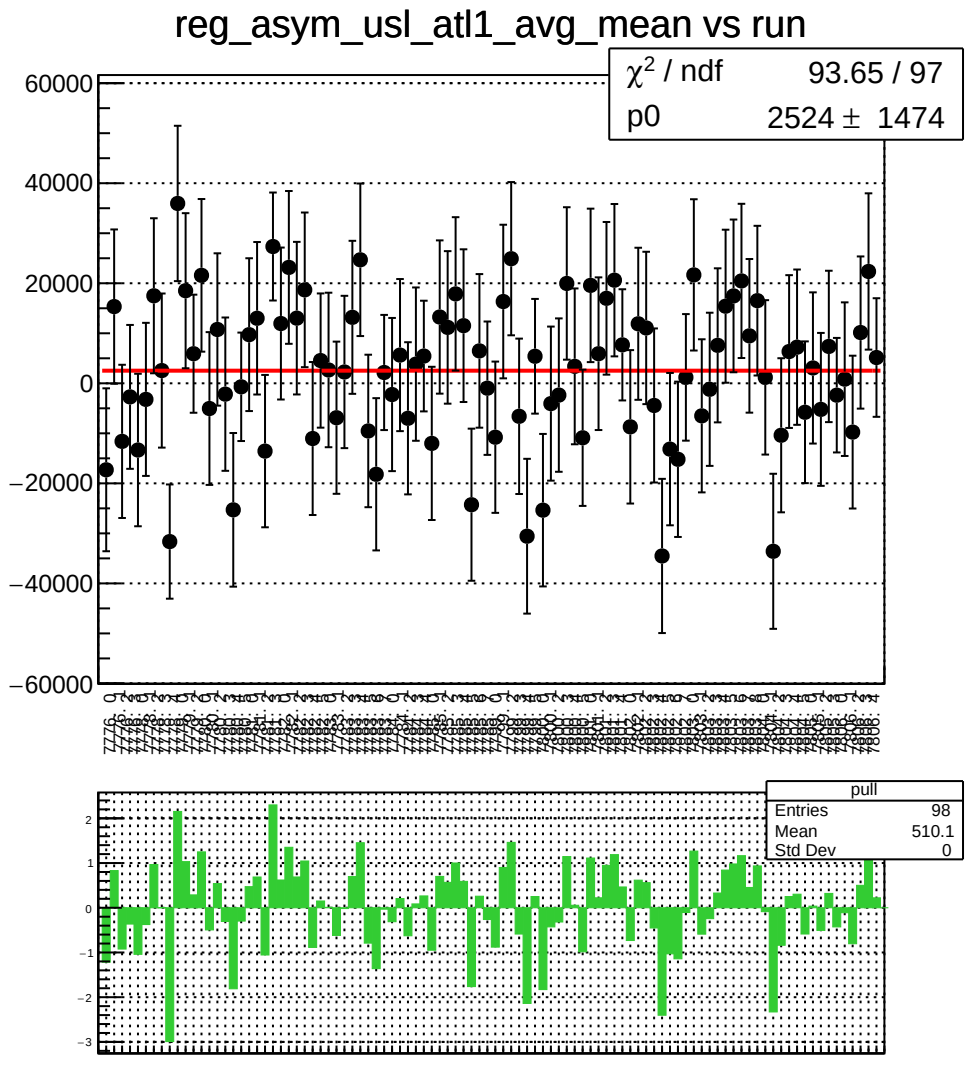

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.04 / 97
p0 −0.03875 ± 0.03786
pull
Entries 98
Mean −995.7
Std Dev 0
pull1D
Entries 98
Mean −0.005103
Std Dev 0.9205

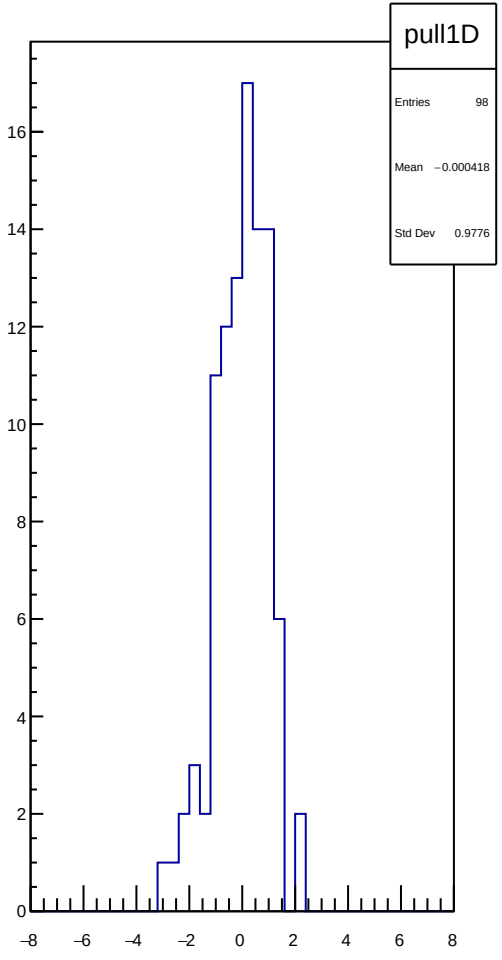

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.723e+05 / 97
p0 33.55 ± 0.02677
120
100
80
60
40
20

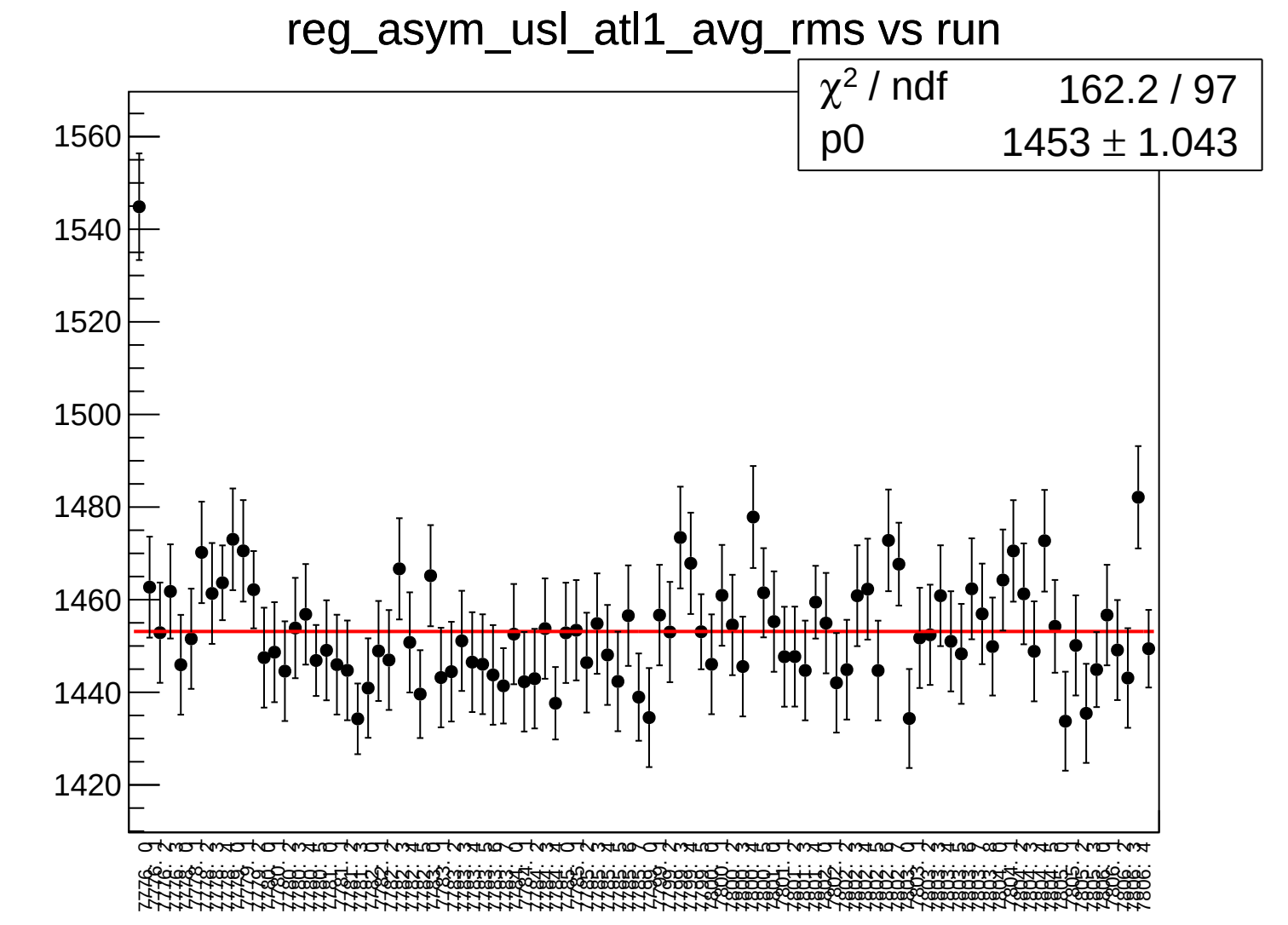

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.81 / 97
p0 −4.077e−14 ± 1.56e−13
pull
Entries 98
Mean 58.24
Std Dev 19.28

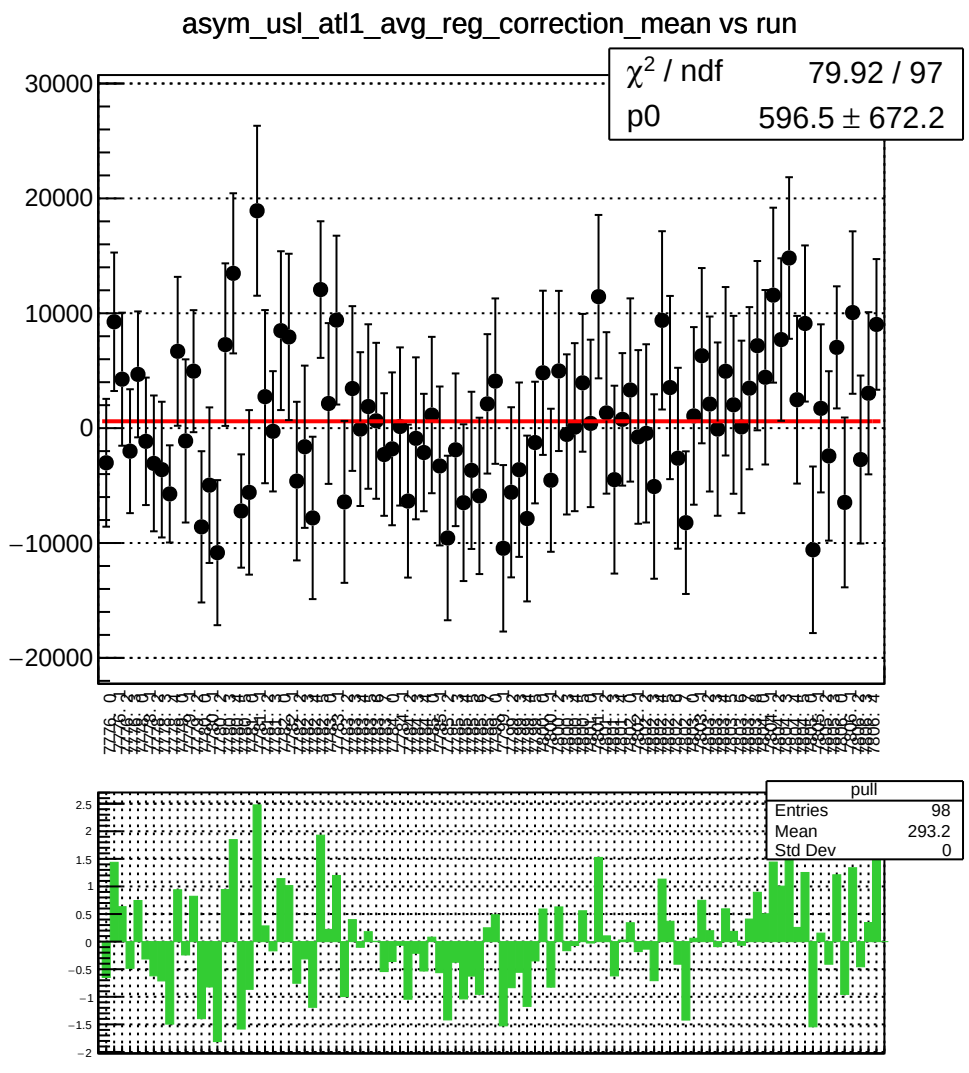

pull1D
Entries 98
Mean −0.11
Std Dev 0.8489

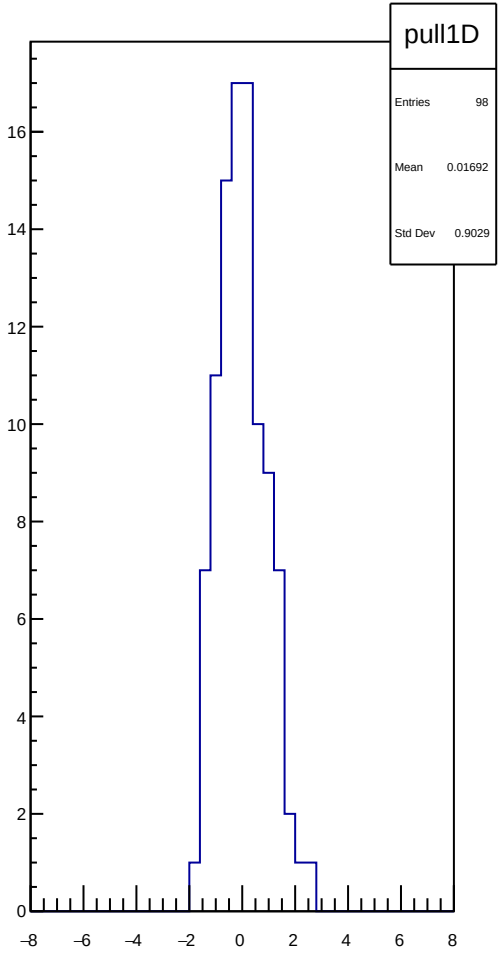

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.197e+05 / 97
p0 1.116e−10 ± 1.103e−13
1
0.8
0.6
0.4
0.2

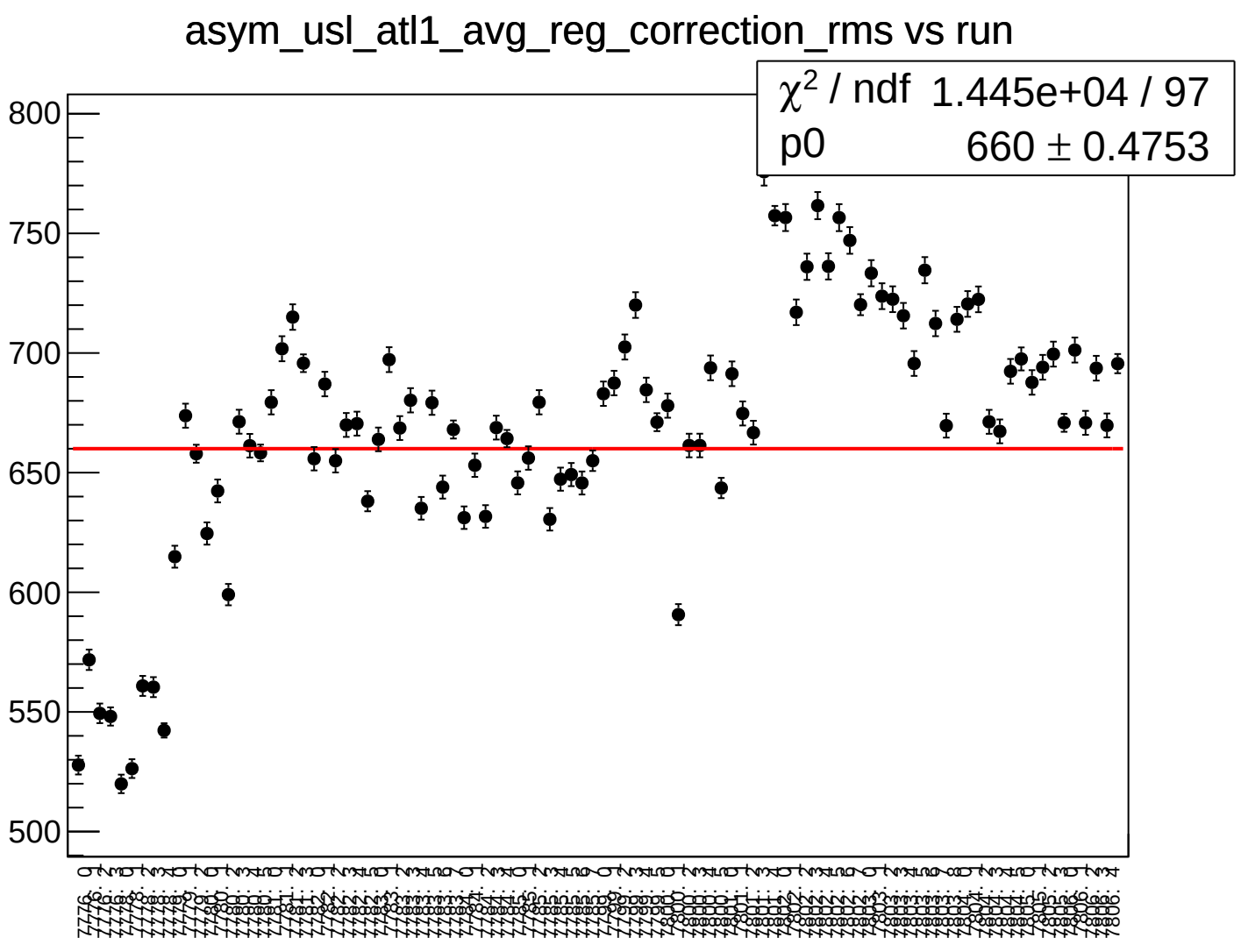

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 93.65 / 97
p0 2524 ± 1474
pull
Entries 98
Mean 510.1
Std Dev 0

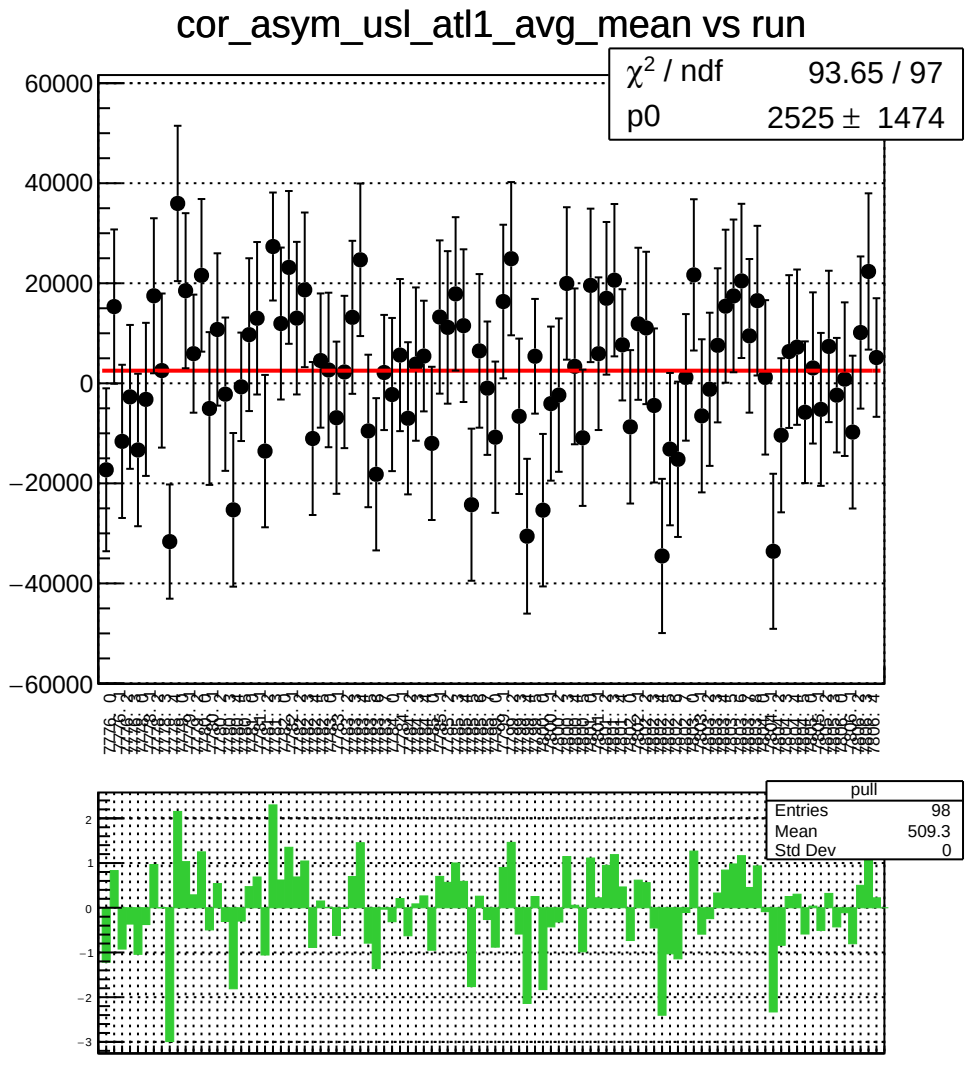

pull1D
Entries 98
Mean −0.000418
Std Dev 0.9776

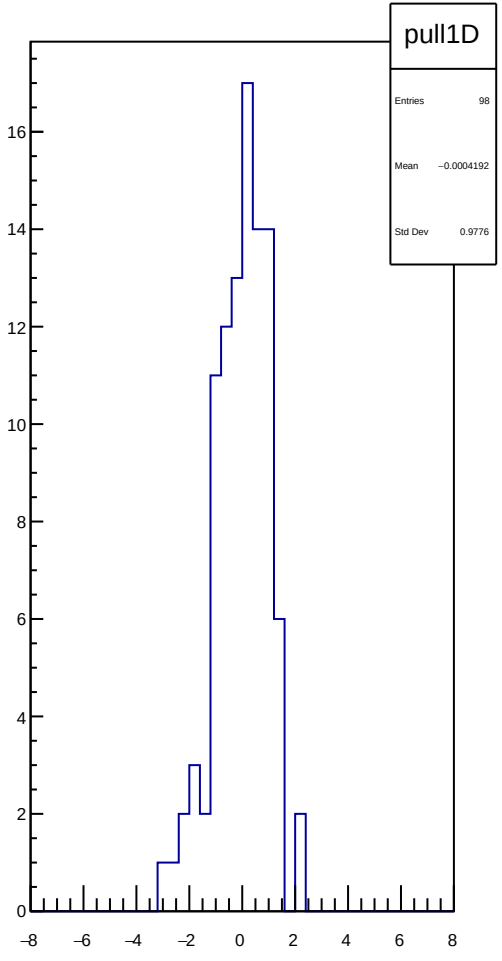

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 162.2 / 97
p0 1453 ± 1.043
1560
1540
1520
1500
1480
1460
1440
1420

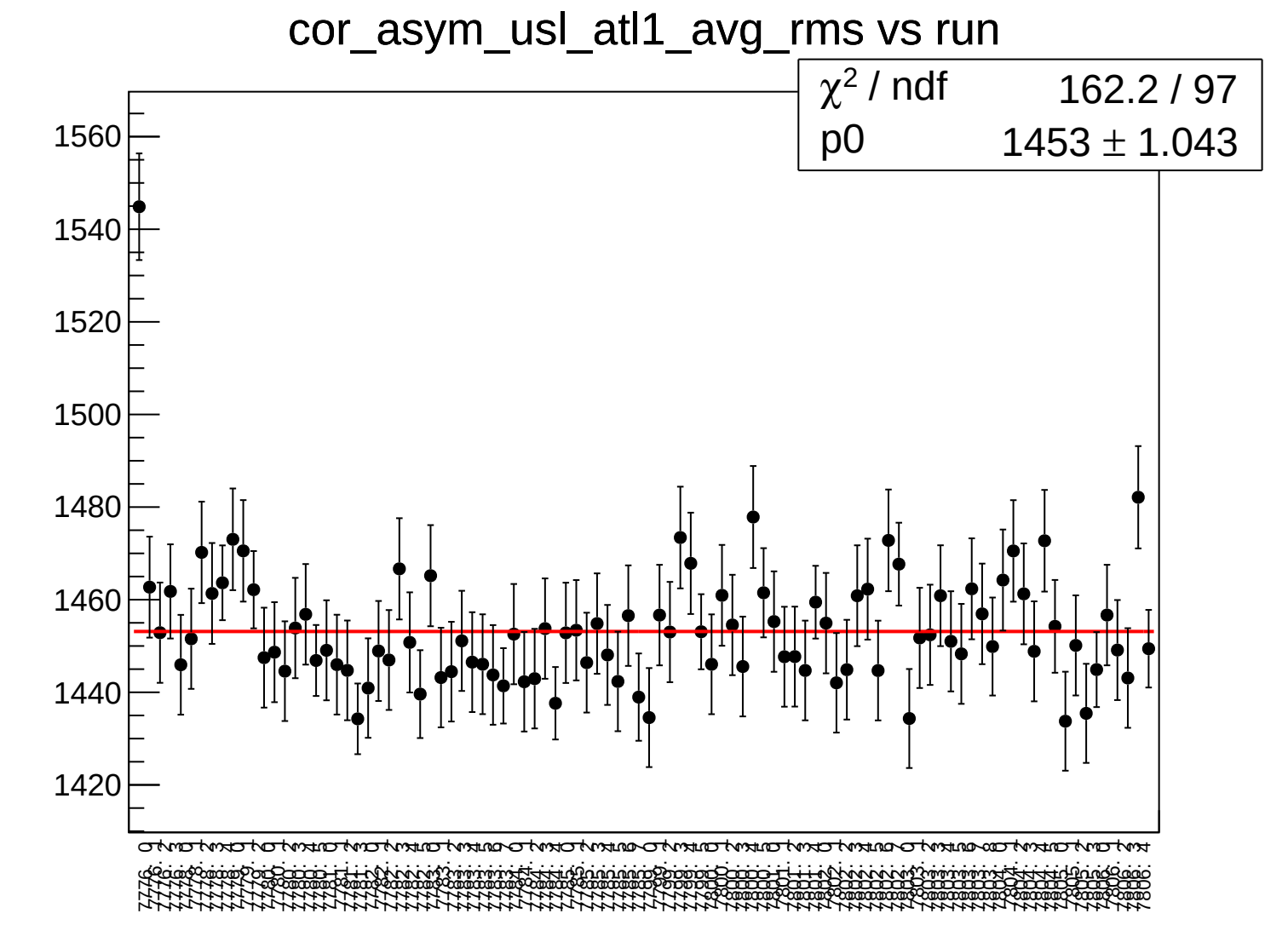

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 79.92 / 97
p0 596.5 ± 672.2
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 293.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

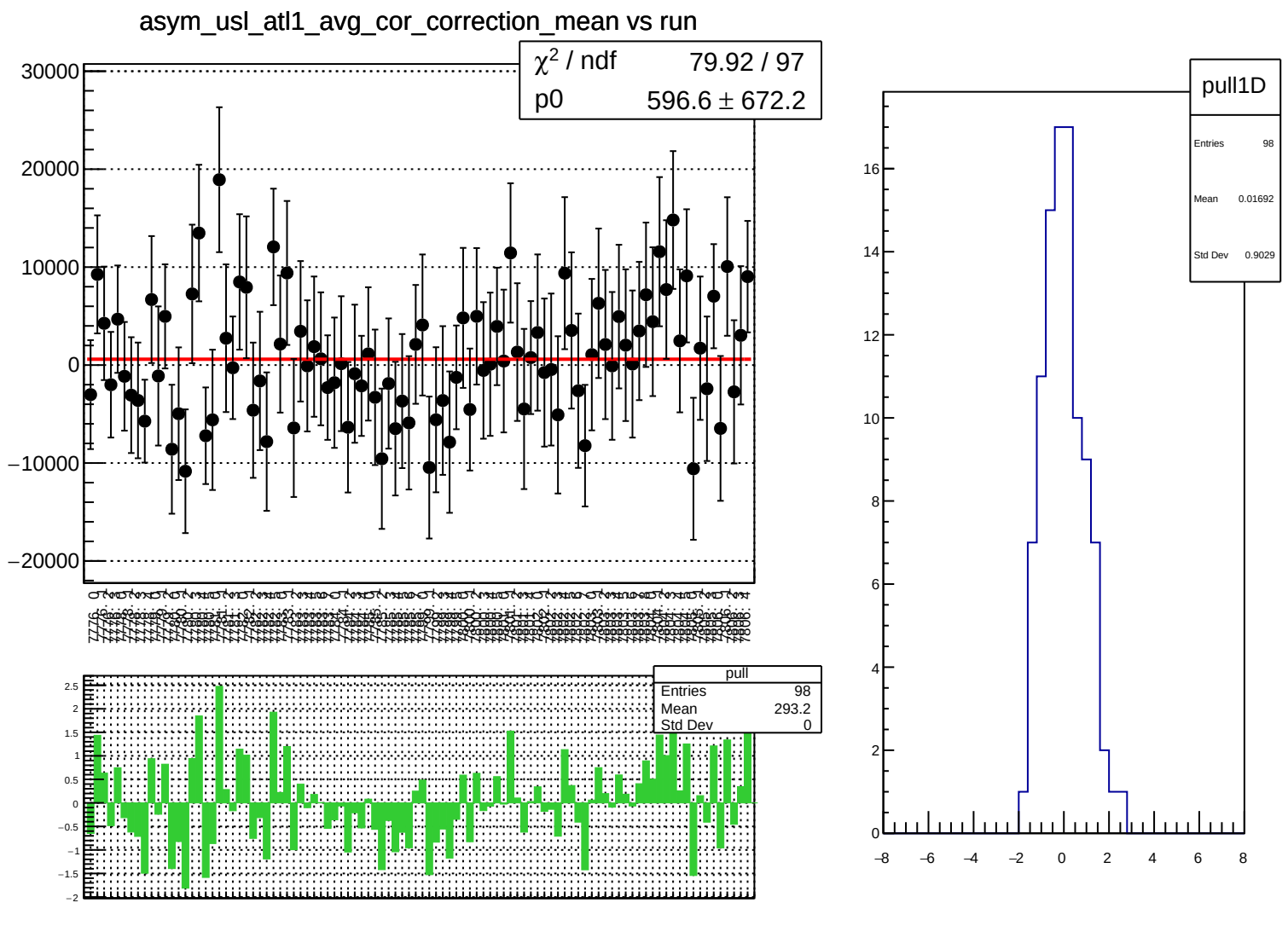

pull1D
Entries 98
Mean 0.01692
Std Dev 0.9029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

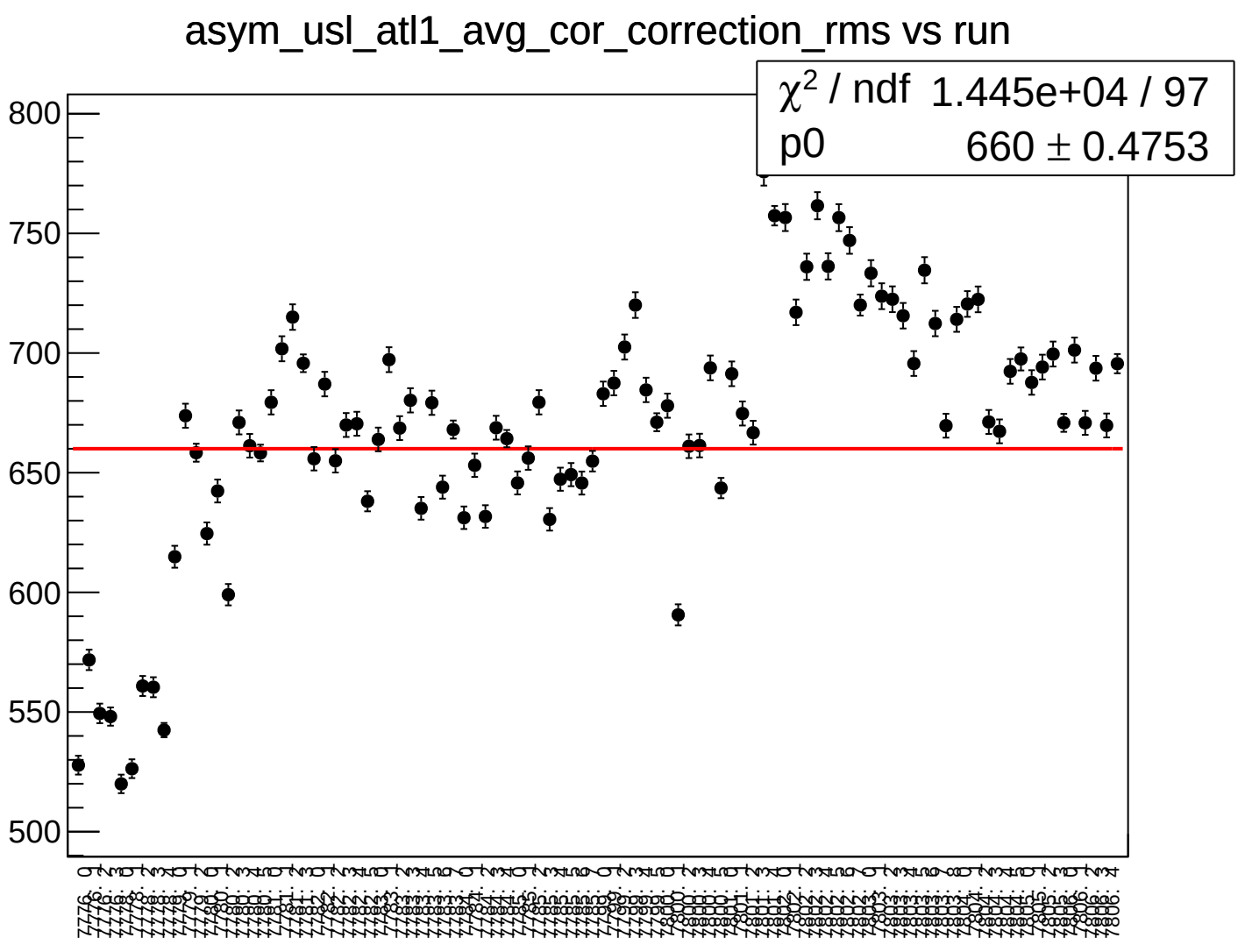

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.445e+04 / 97
p0 660 ± 0.4753
800
750
700
650
600
550
500

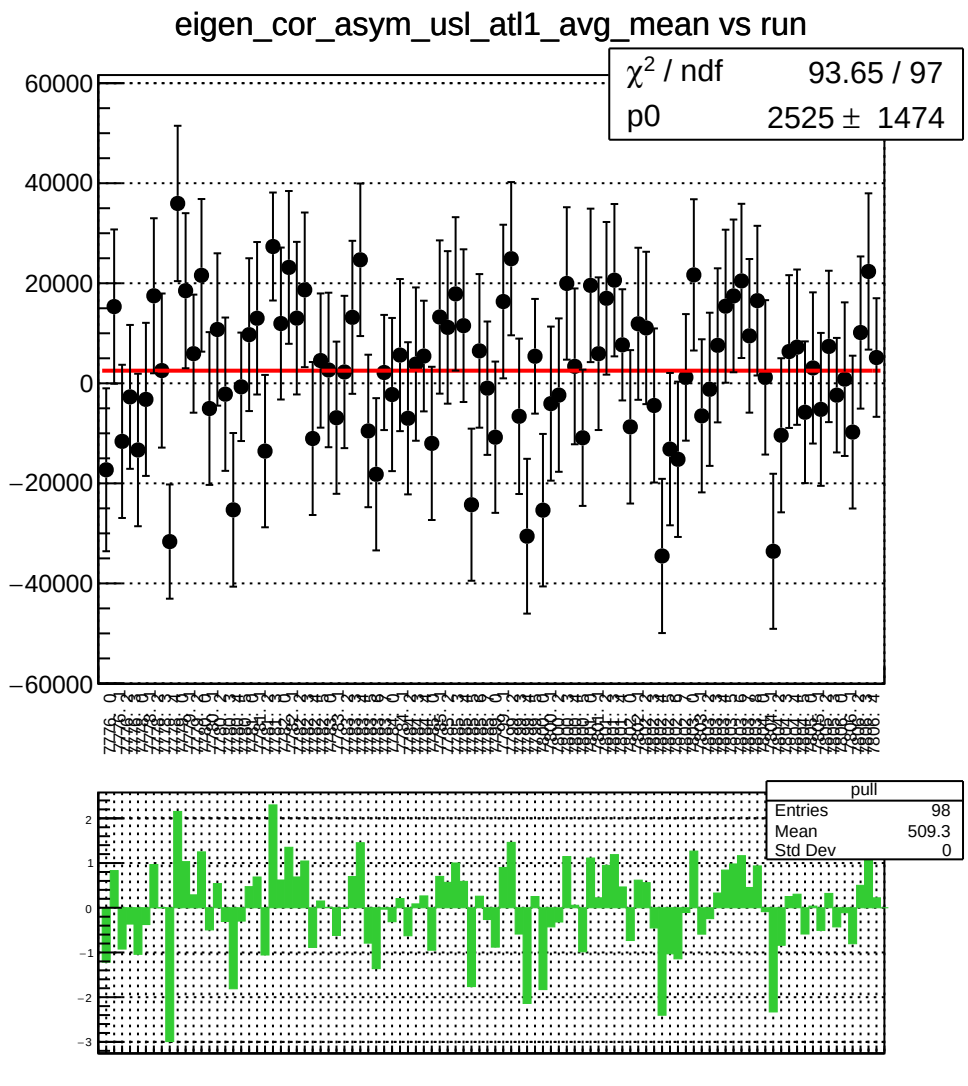

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 93.65 / 97
p0 2525 ± 1474
pull
Entries 98
Mean 509.3
Std Dev 0

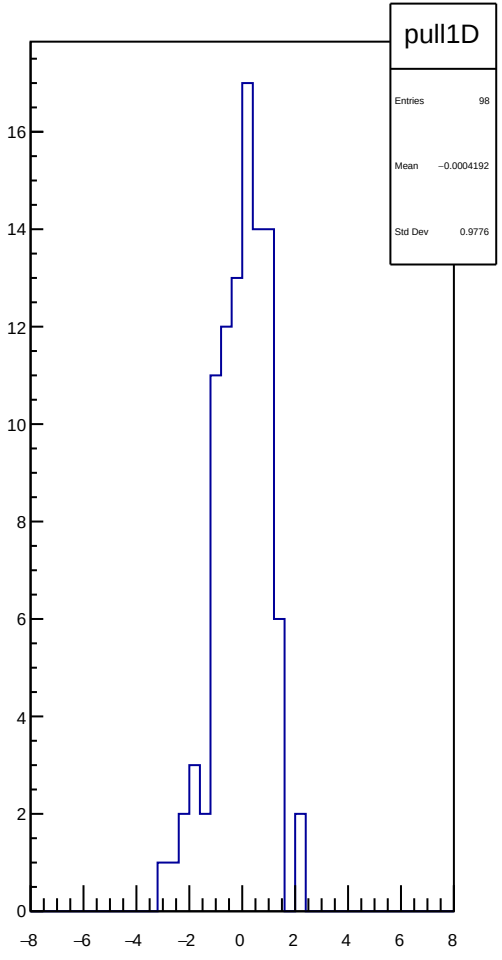

pull1D
Entries 98
Mean −0.0004192
Std Dev 0.9776

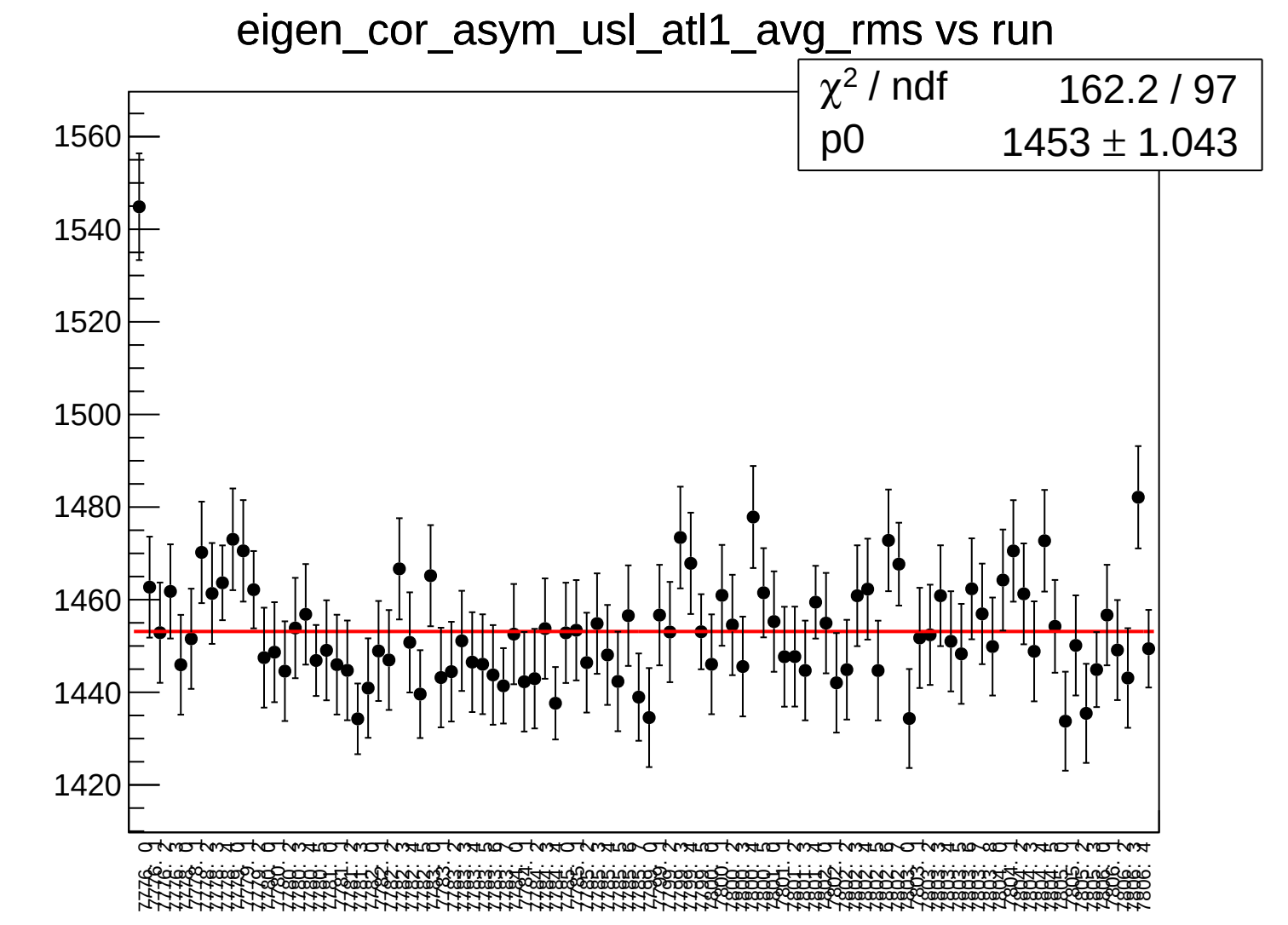

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 162.2 / 97
p0 1453 ± 1.043
1560
1540
1520
1500
1480
1460
1440
1420

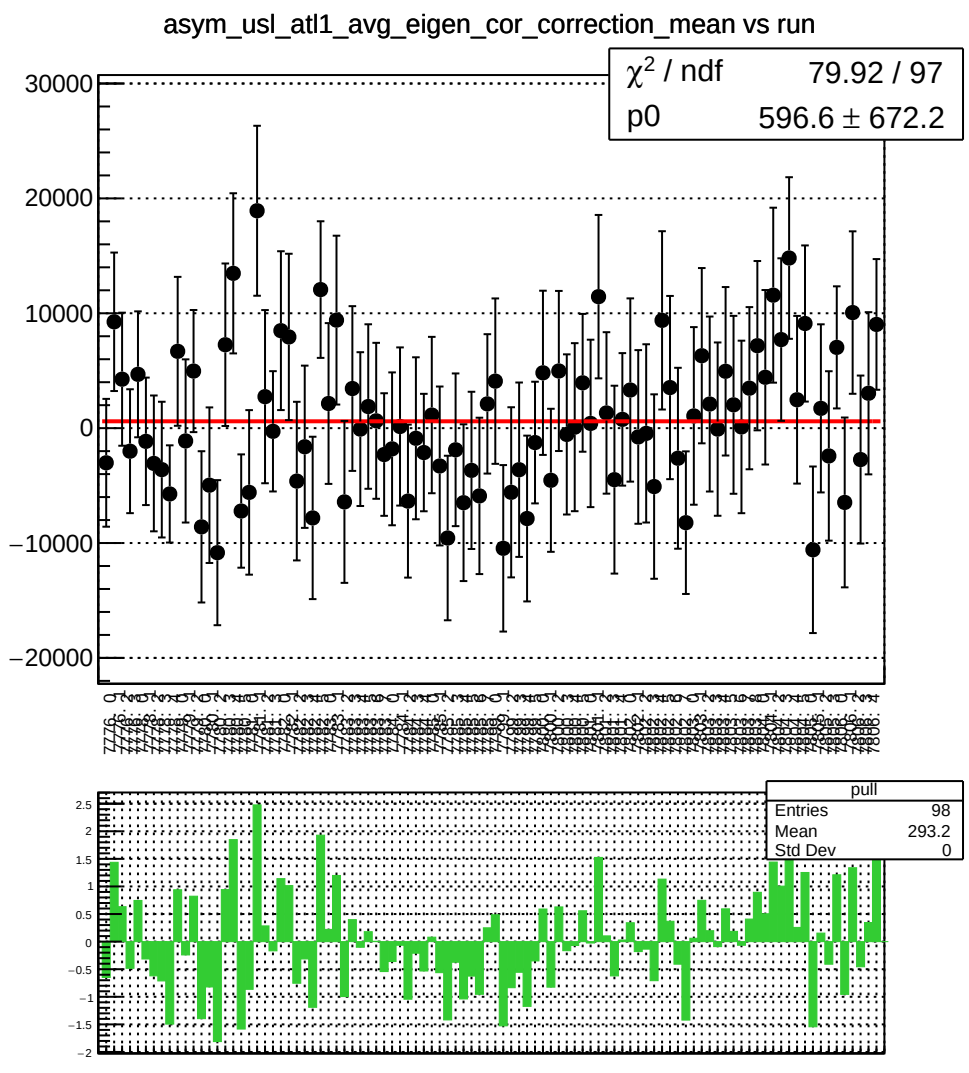

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 79.92 / 97
p0 596.6 ± 672.2
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 293.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.01692
Std Dev 0.9029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

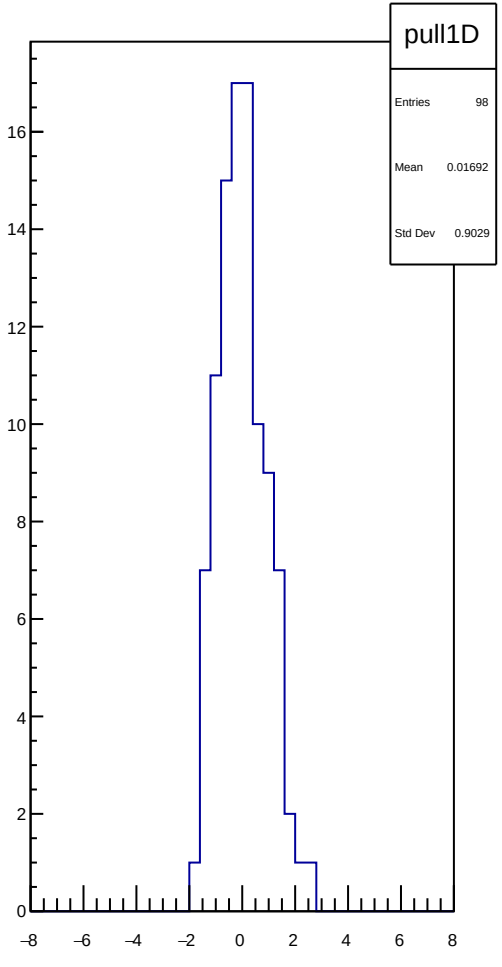

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.445e+04 / 97
p0 660 ± 0.4753
800
750
700
650
600
550
500

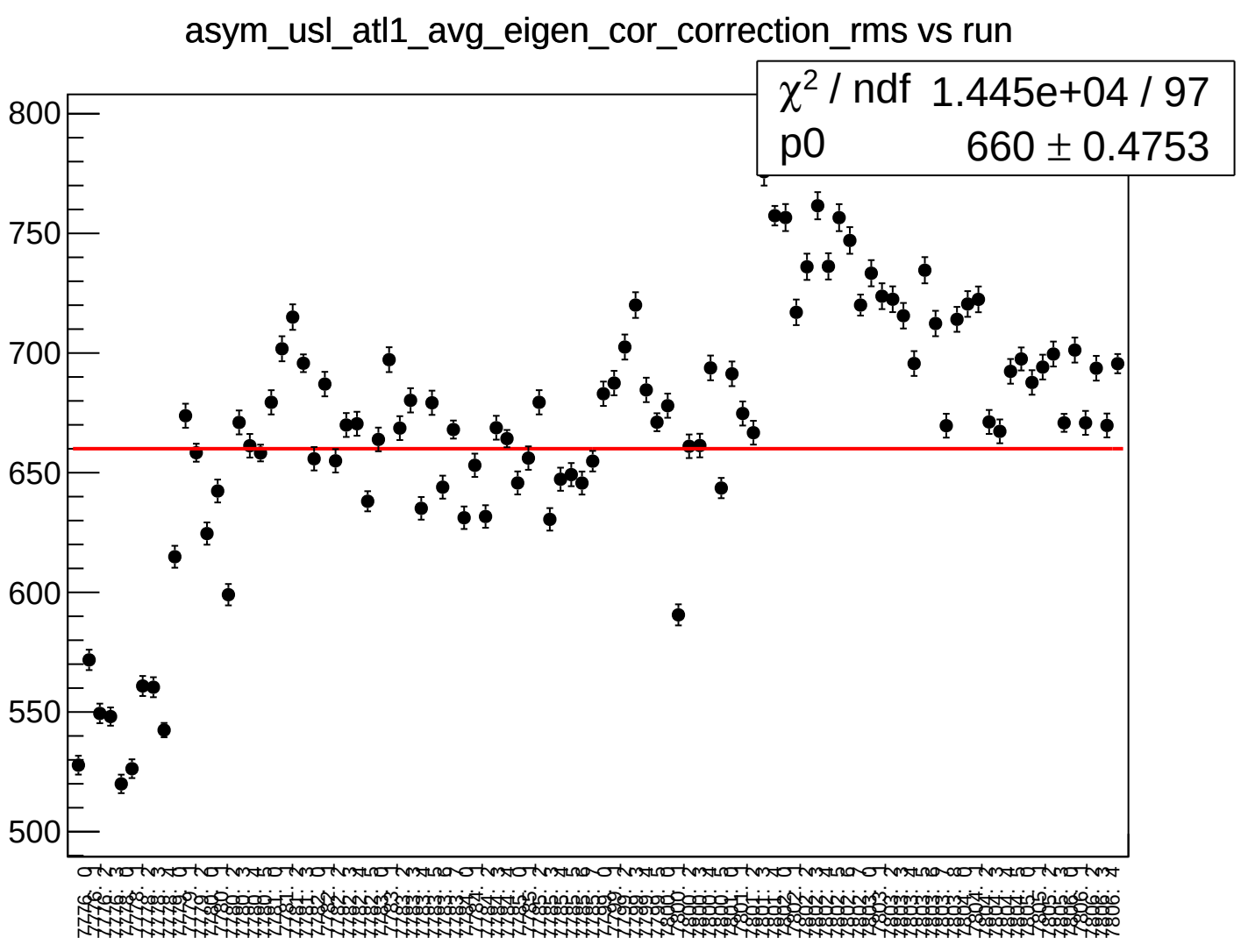

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 93.65 / 97
p0 2525 ± 1474
pull
Entries 98
Mean 509.3
Std Dev 0

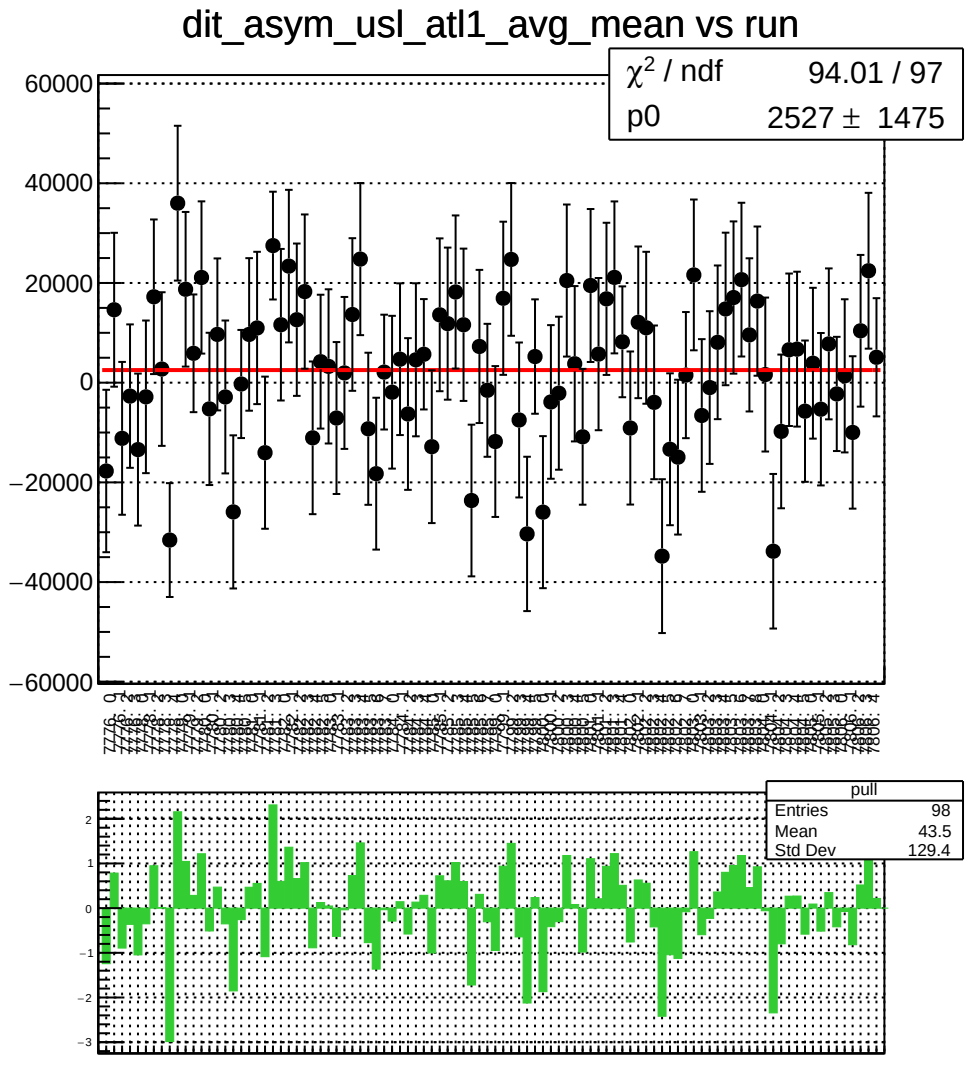

pull1D
Entries 98
Mean −0.0004192
Std Dev 0.9776

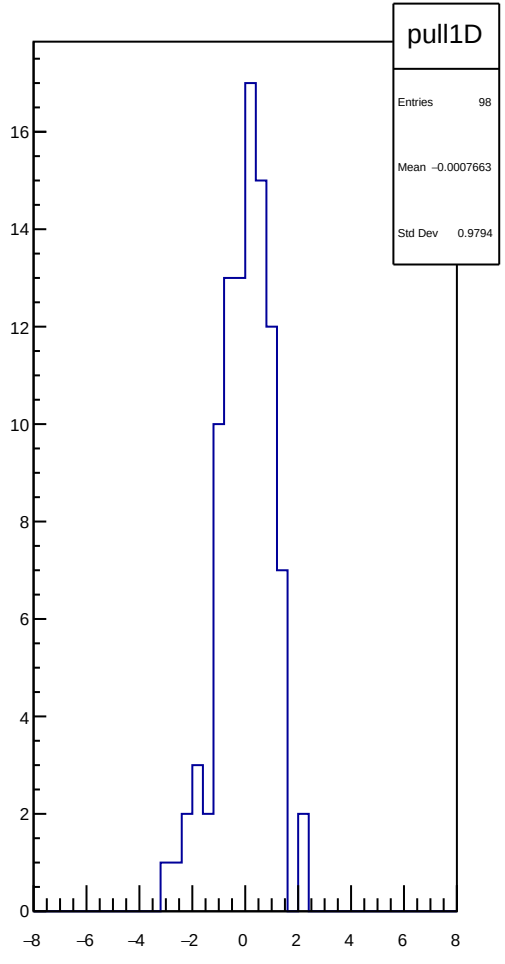

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 162.2 / 97
p0 1453 ± 1.043
1560
1540
1520
1500
1480
1460
1440
1420

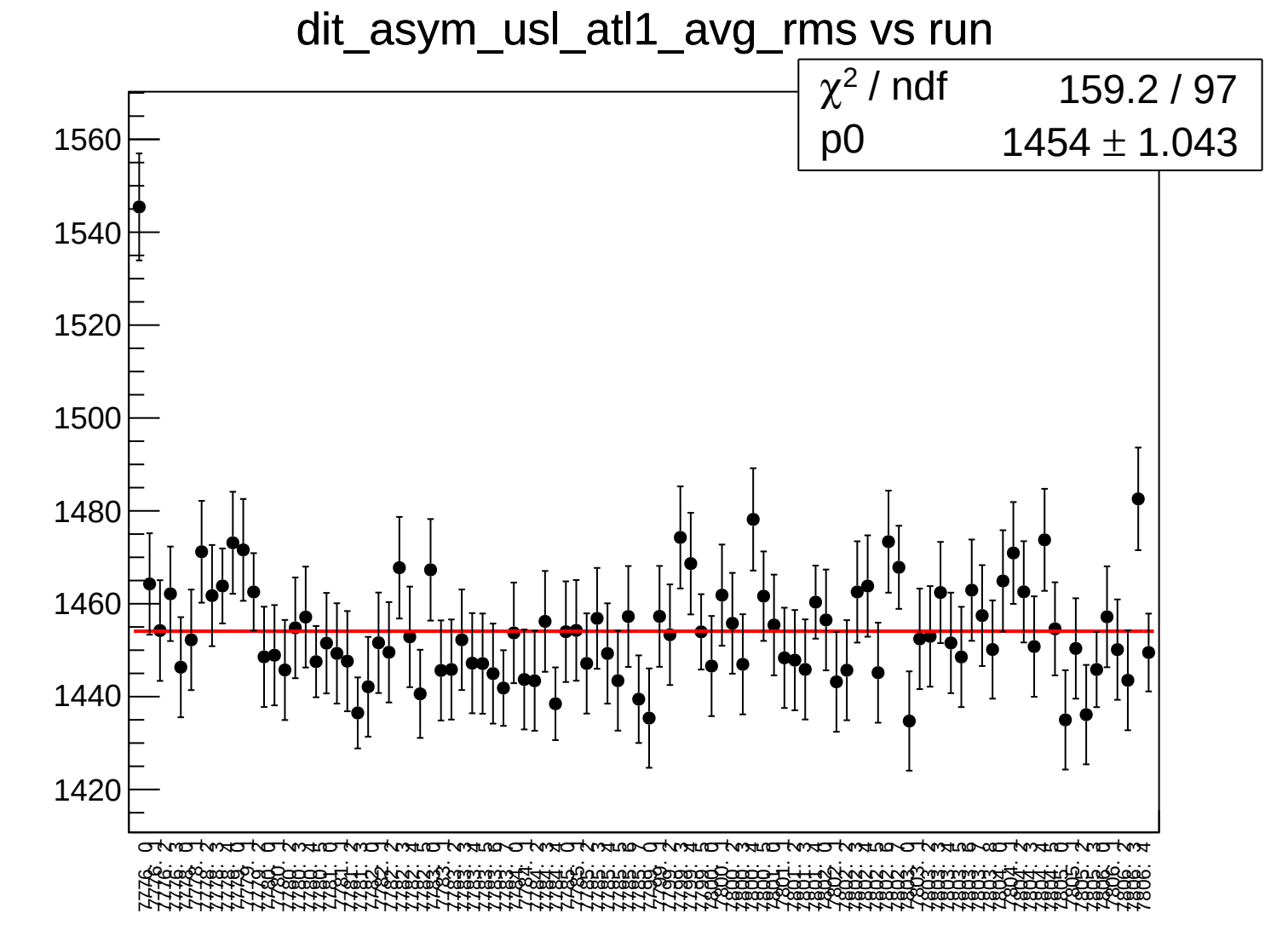

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.92 / 97
p0 596.6 ± 672.2
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 293.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

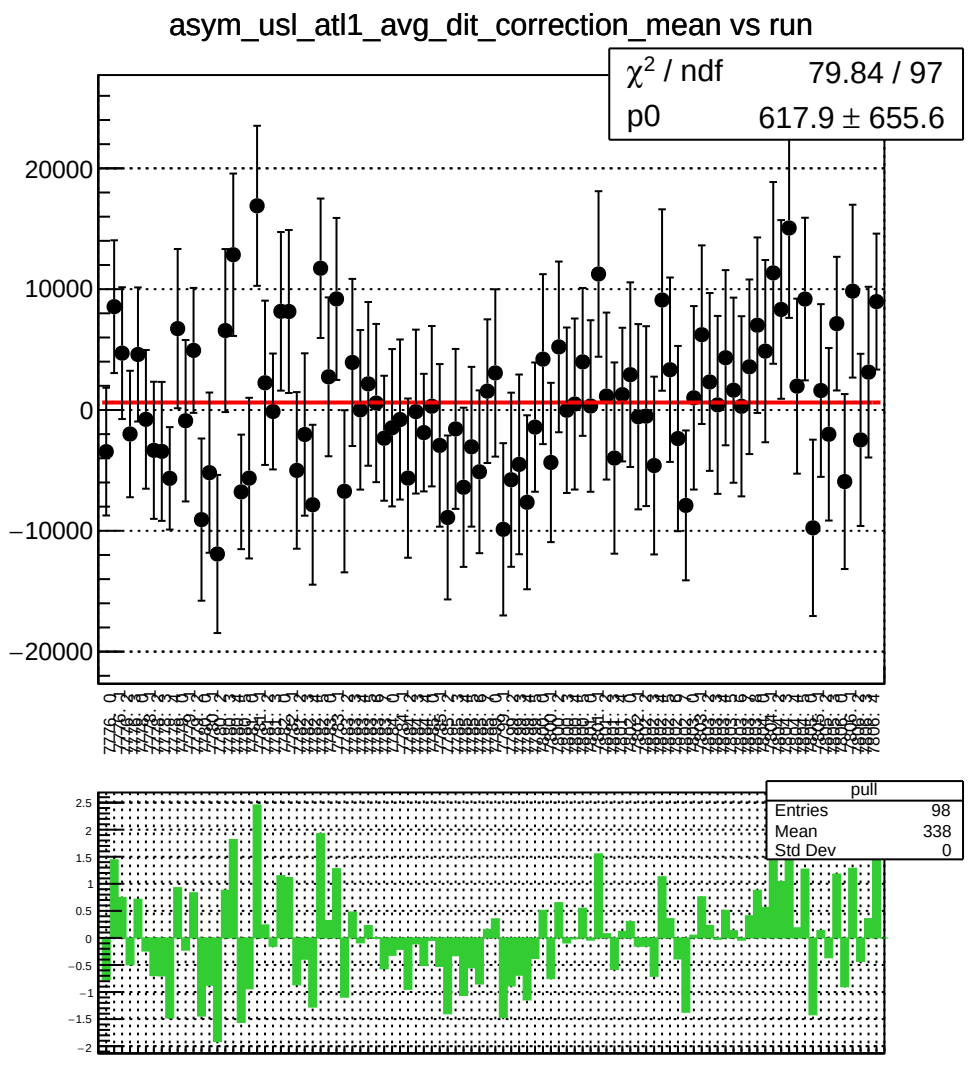

pull1D
Entries 98
Mean 0.01692
Std Dev 0.9029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

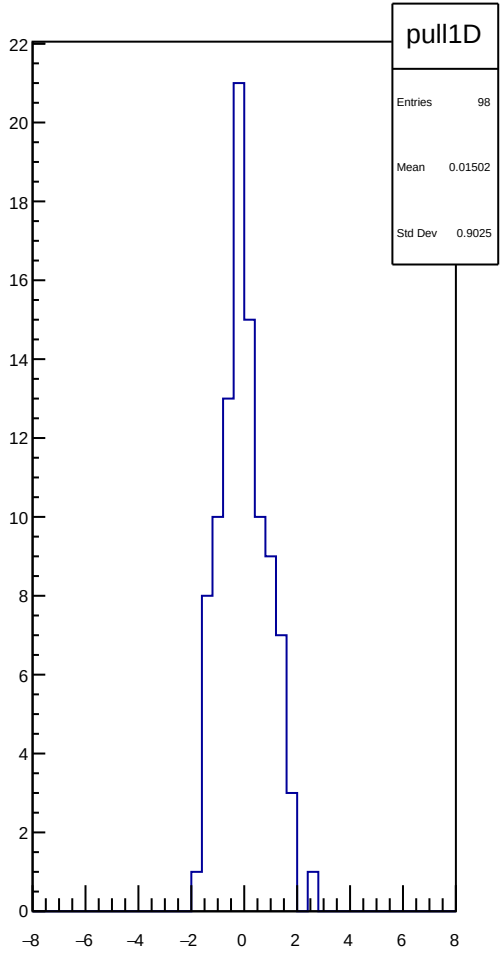

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.445e+04 / 97
p0 660 ± 0.4753
800
750
700
650
600
550
500

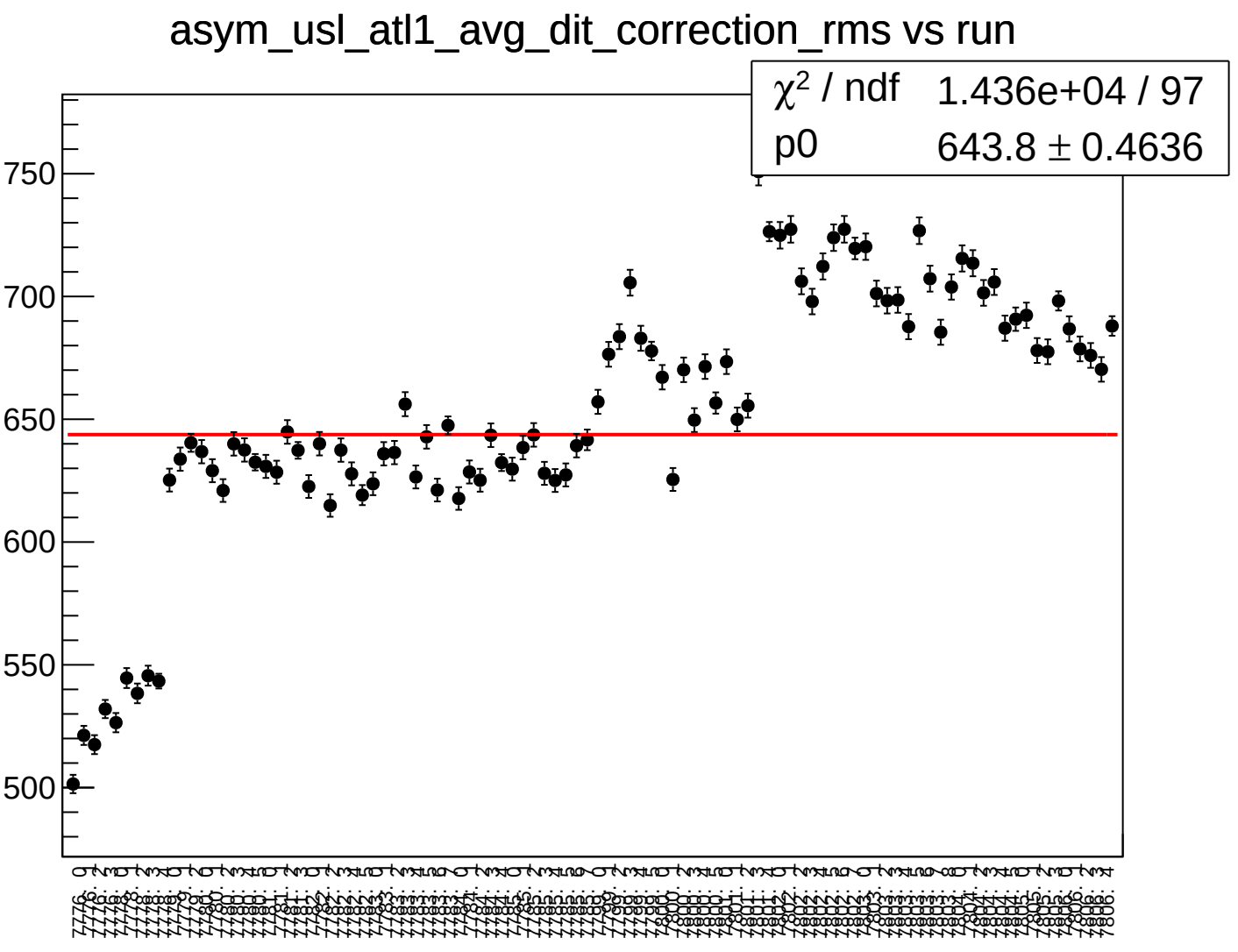

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 94.01 / 97
p0 2527 ± 1475
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 43.5
Std Dev 129.4
2
1
0
−1
−2
−3

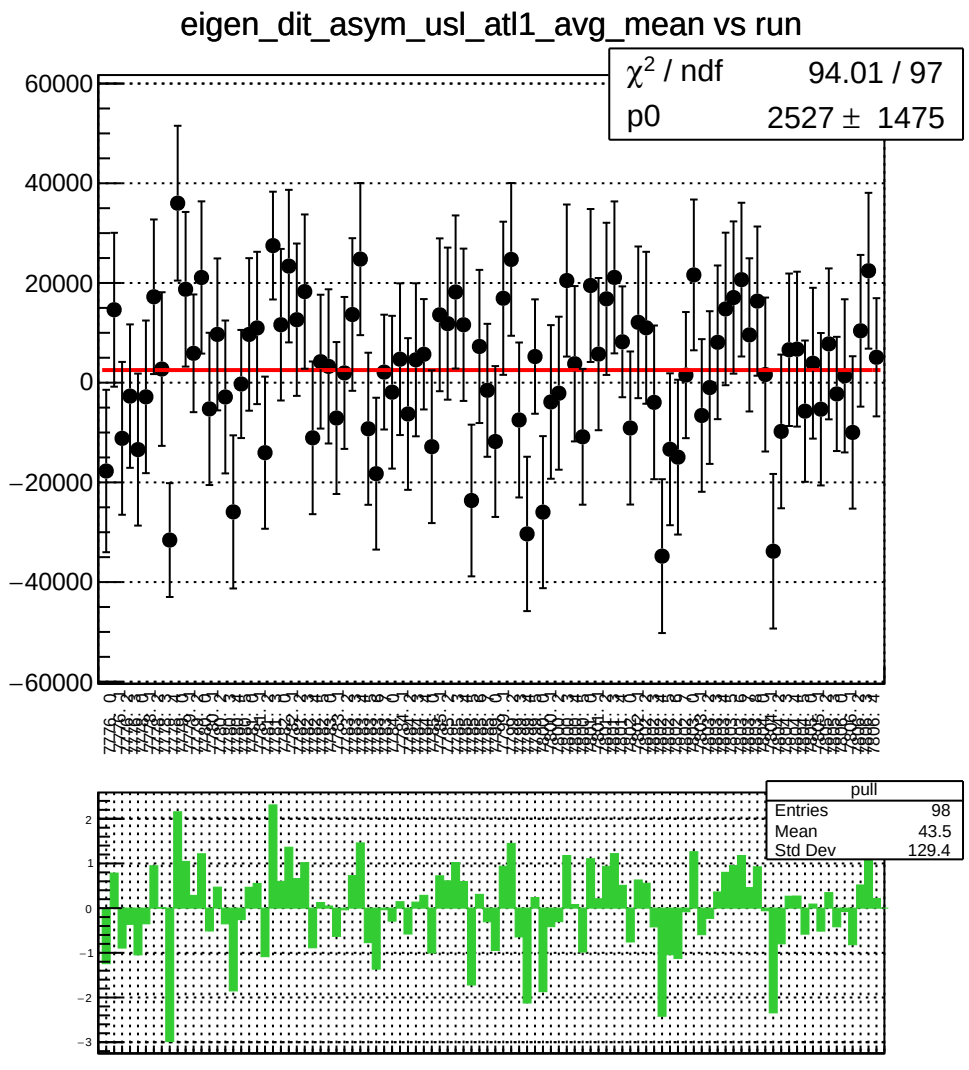

pull1D
Entries 98
Mean −0.0007663
Std Dev 0.9794
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

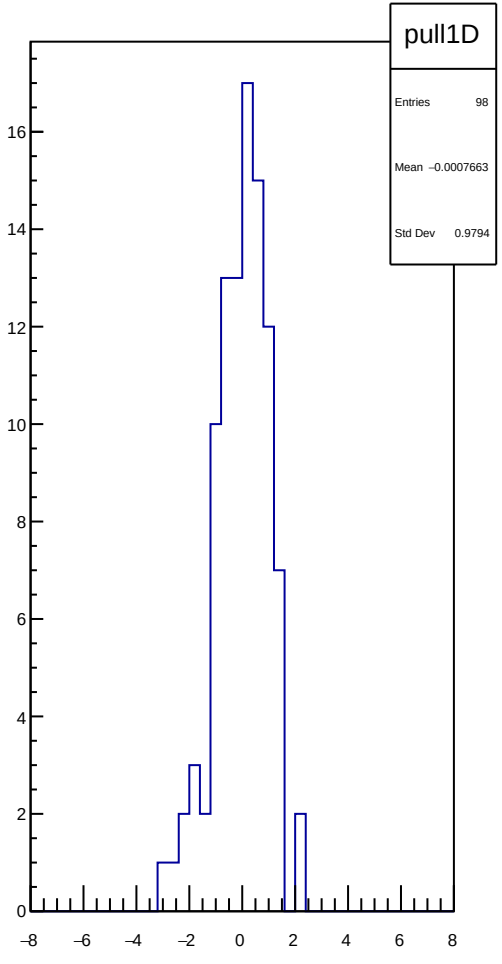

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 159.2 / 97
p0 1454 ± 1.043
1560
1540
1520
1500
1480
1460
1440
1420

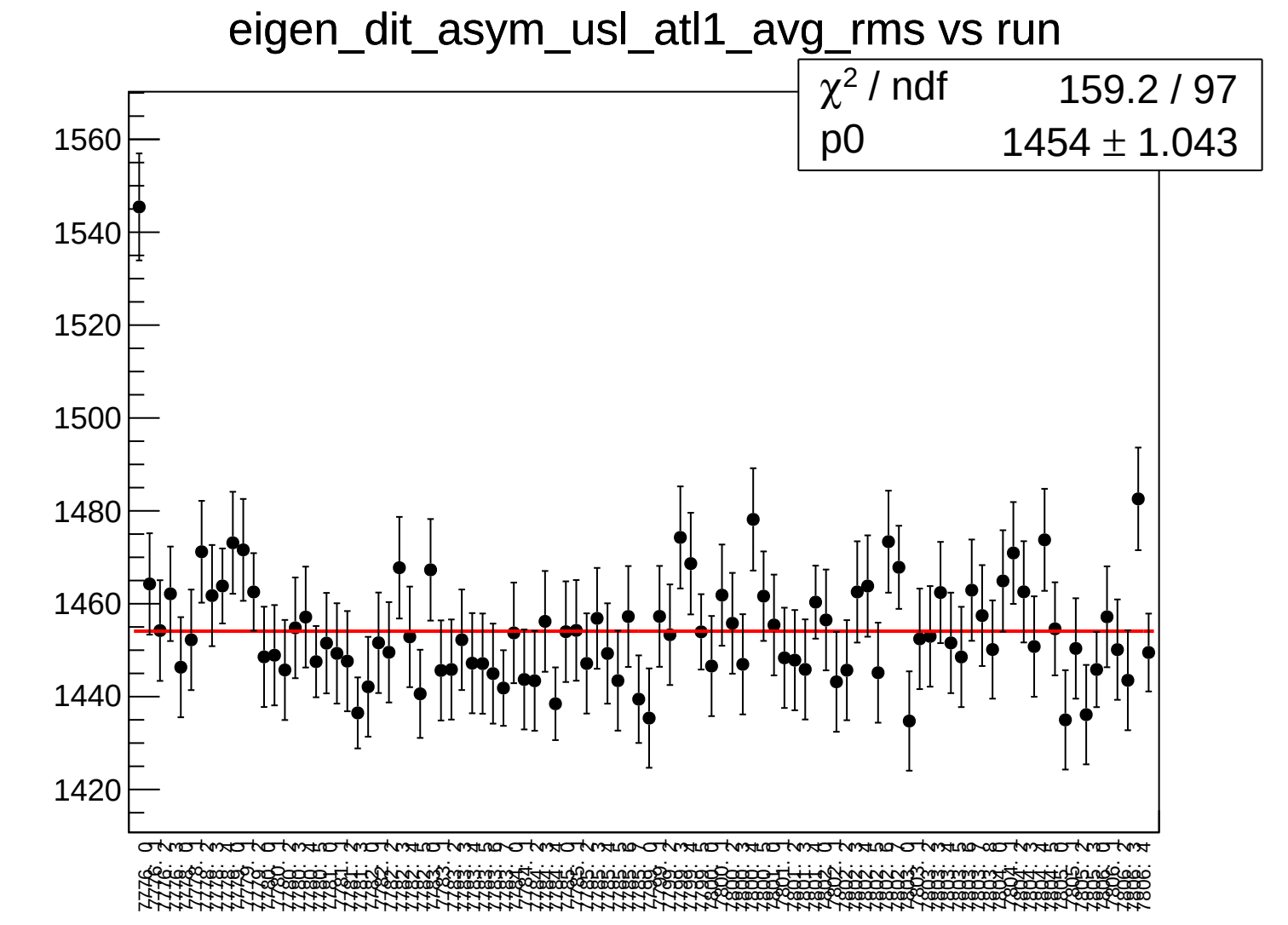

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 79.84 / 97
p0 617.9 ± 655.6
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 338
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

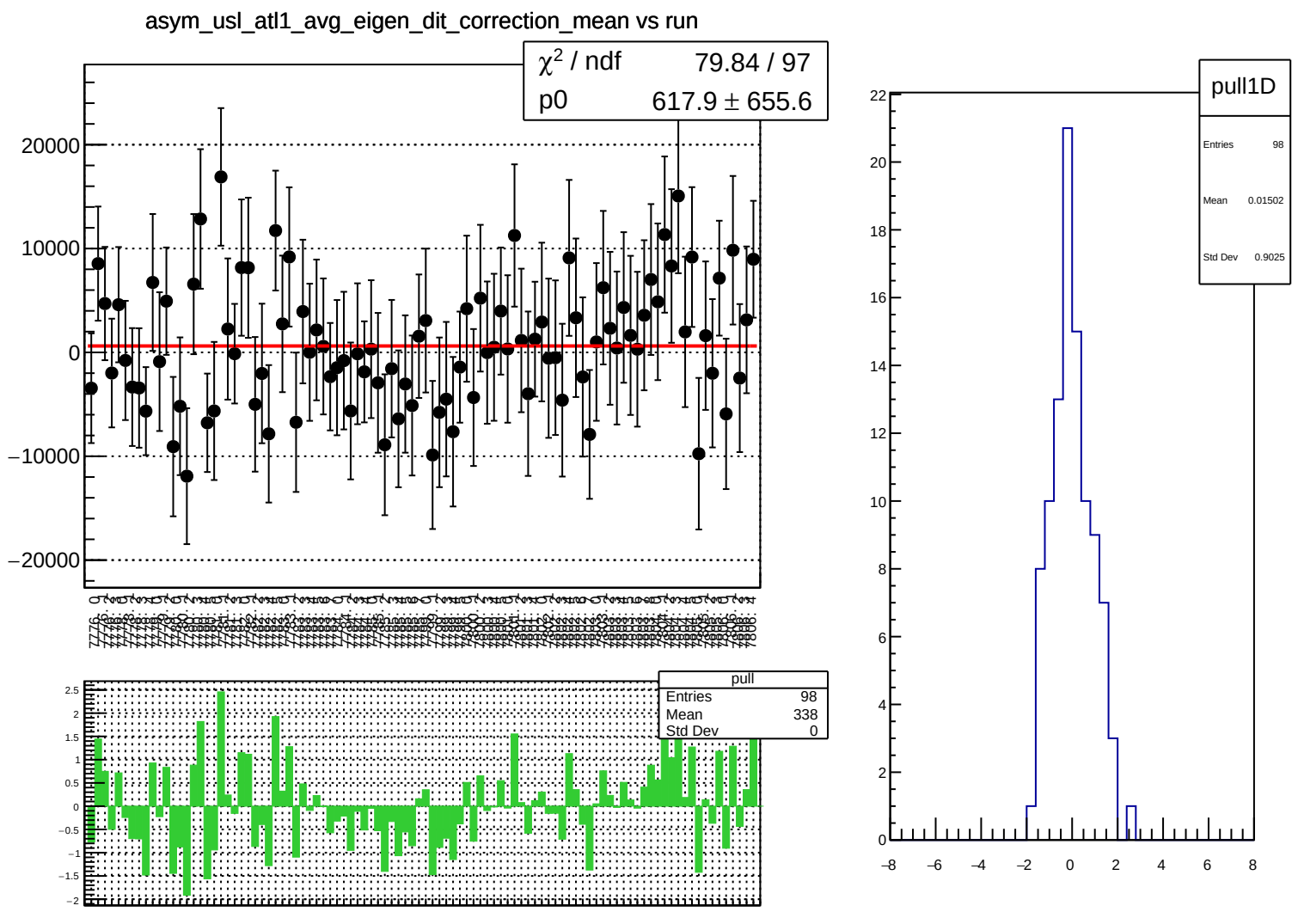

pull1D
Entries 98
Mean 0.01502
Std Dev 0.9025
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

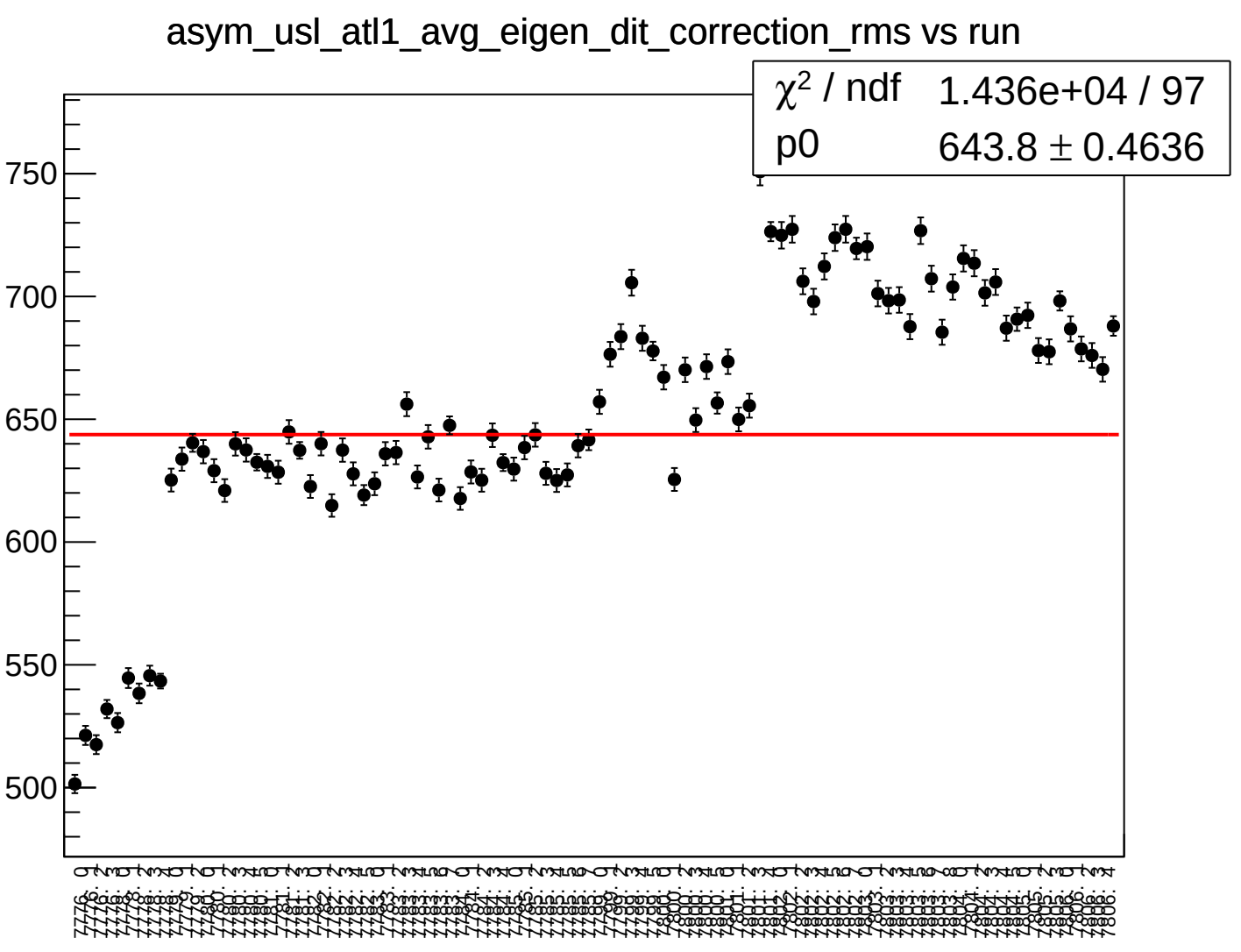

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.436e+04 / 97
p0 643.8 ± 0.4636
750
700
650
600
550
500

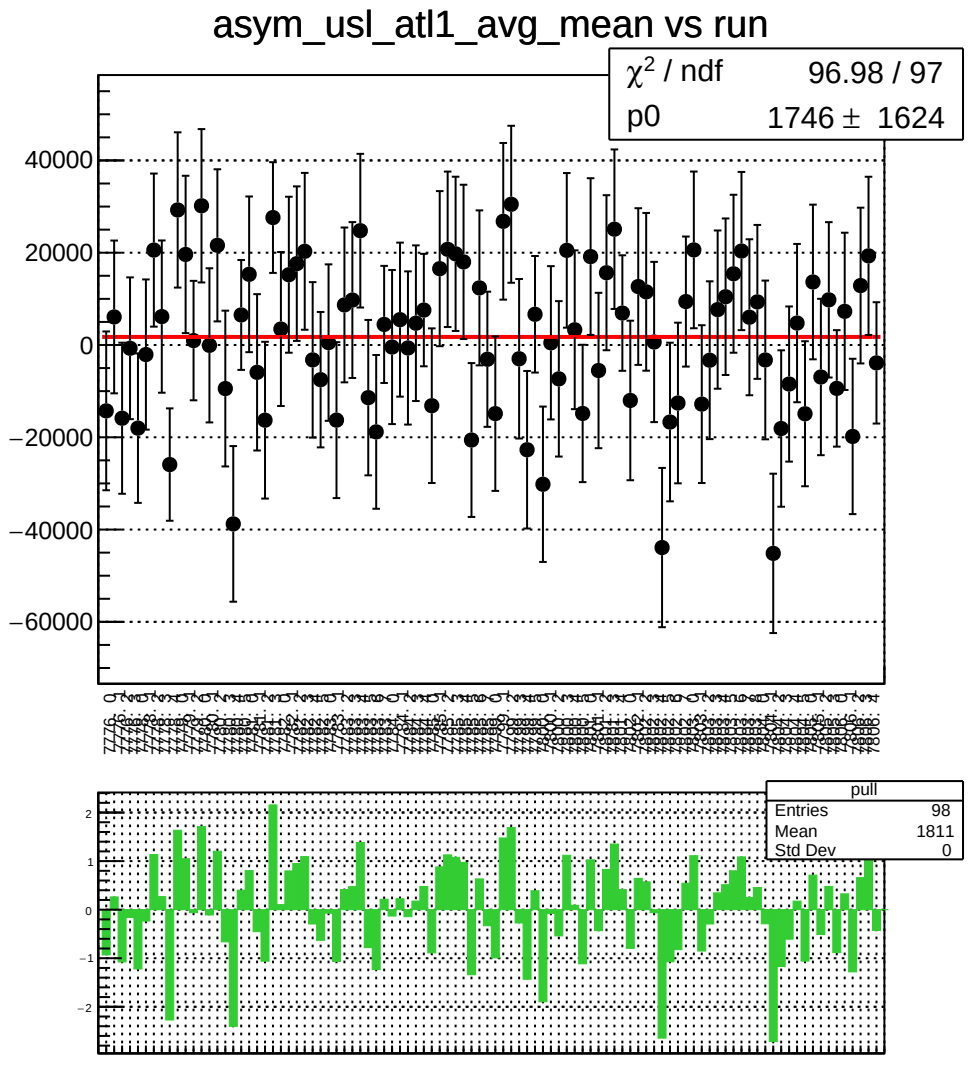

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 94.01 / 97
p0 2527 ± 1475
pull
Entries 98
Mean 43.5
Std Dev 129.4

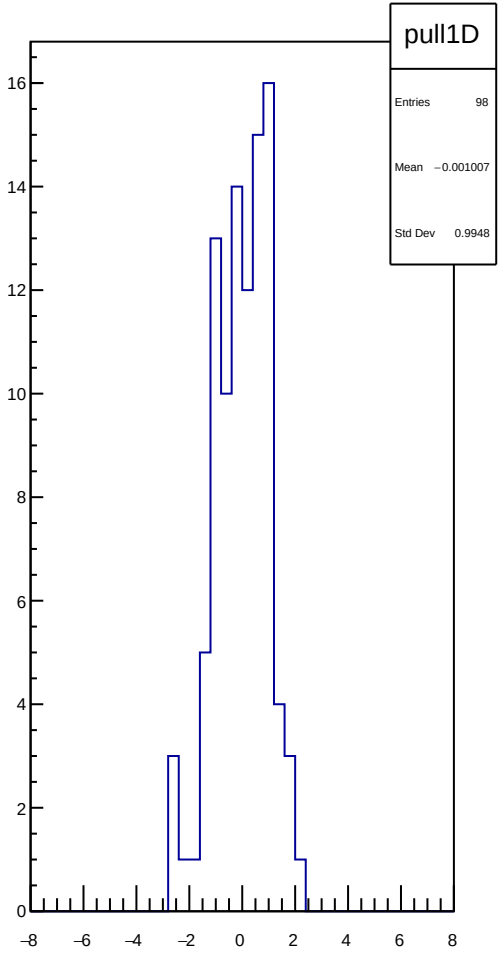

pull1D
Entries 98
Mean −0.0007663
Std Dev 0.9794

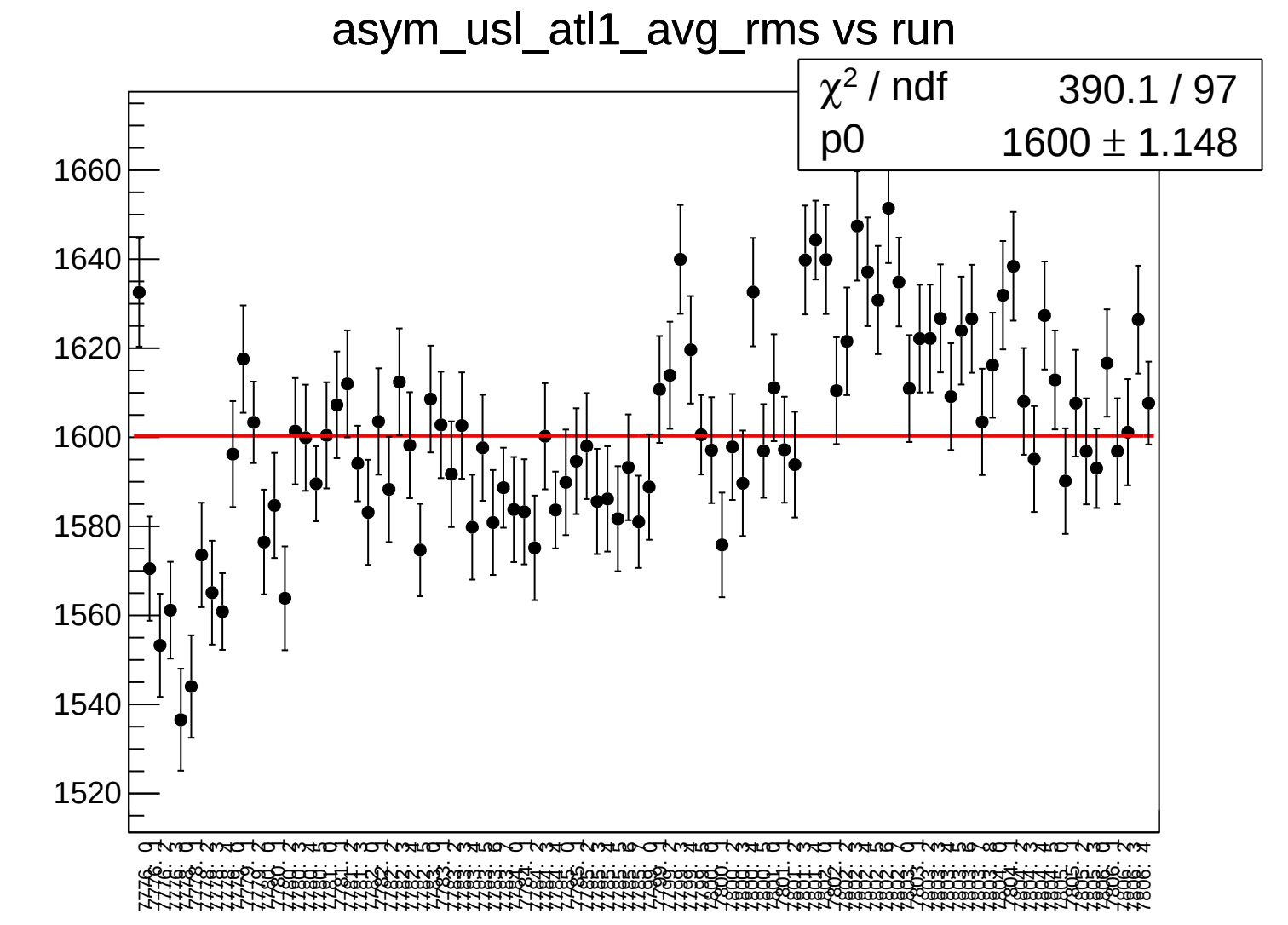

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 159.2 / 97
p0 1454 ± 1.043
1560
1540
1520
1500
1480
1460
1440
1420

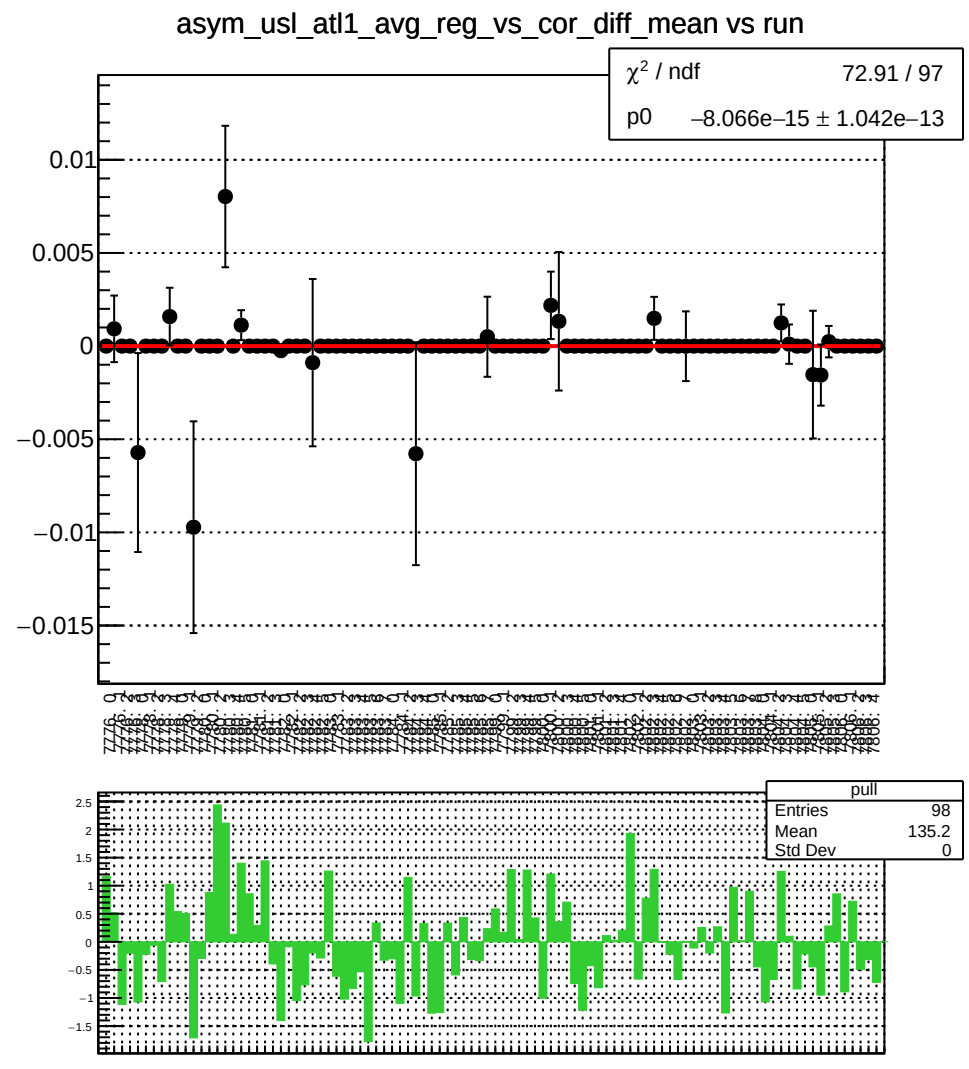

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.84 / 97
p0 617.9 ± 655.6
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 338
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.01502
Std Dev 0.9025
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

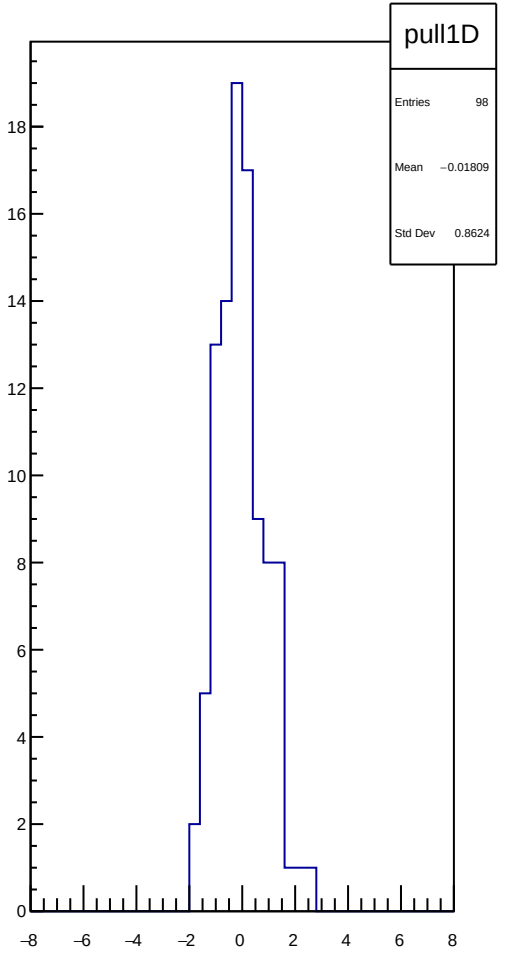

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.436e+04 / 97
p0 643.8 ± 0.4636
750
700
650
600
550
500

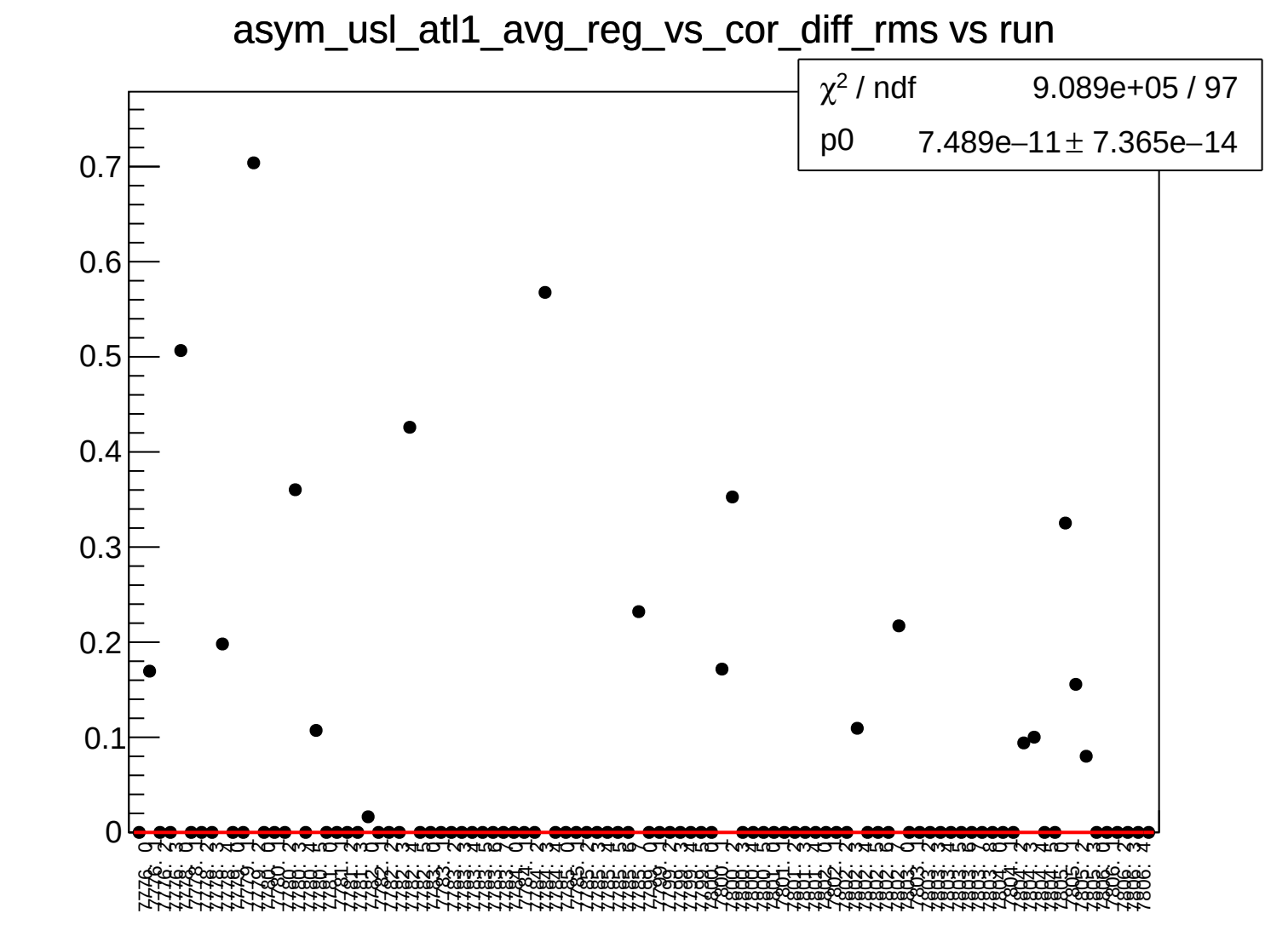

asym_usl_atl1_avg_mean vs run
χ² / ndf 96.98 / 97
p0 1746 ± 1624
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 1811
Std Dev 0
2
1
0
−1
−2

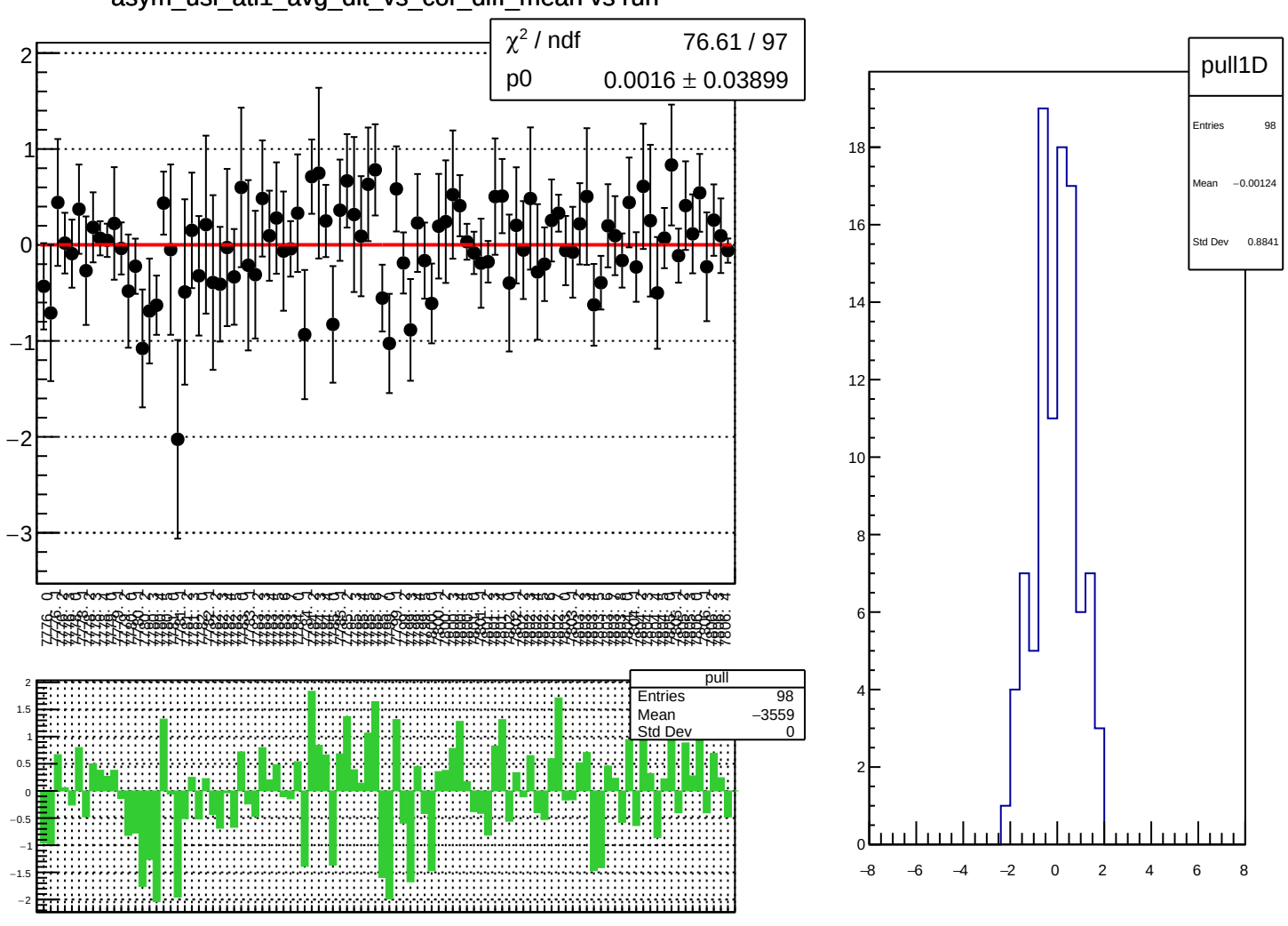

pull1D
Entries 98
Mean −0.001007
Std Dev 0.9948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

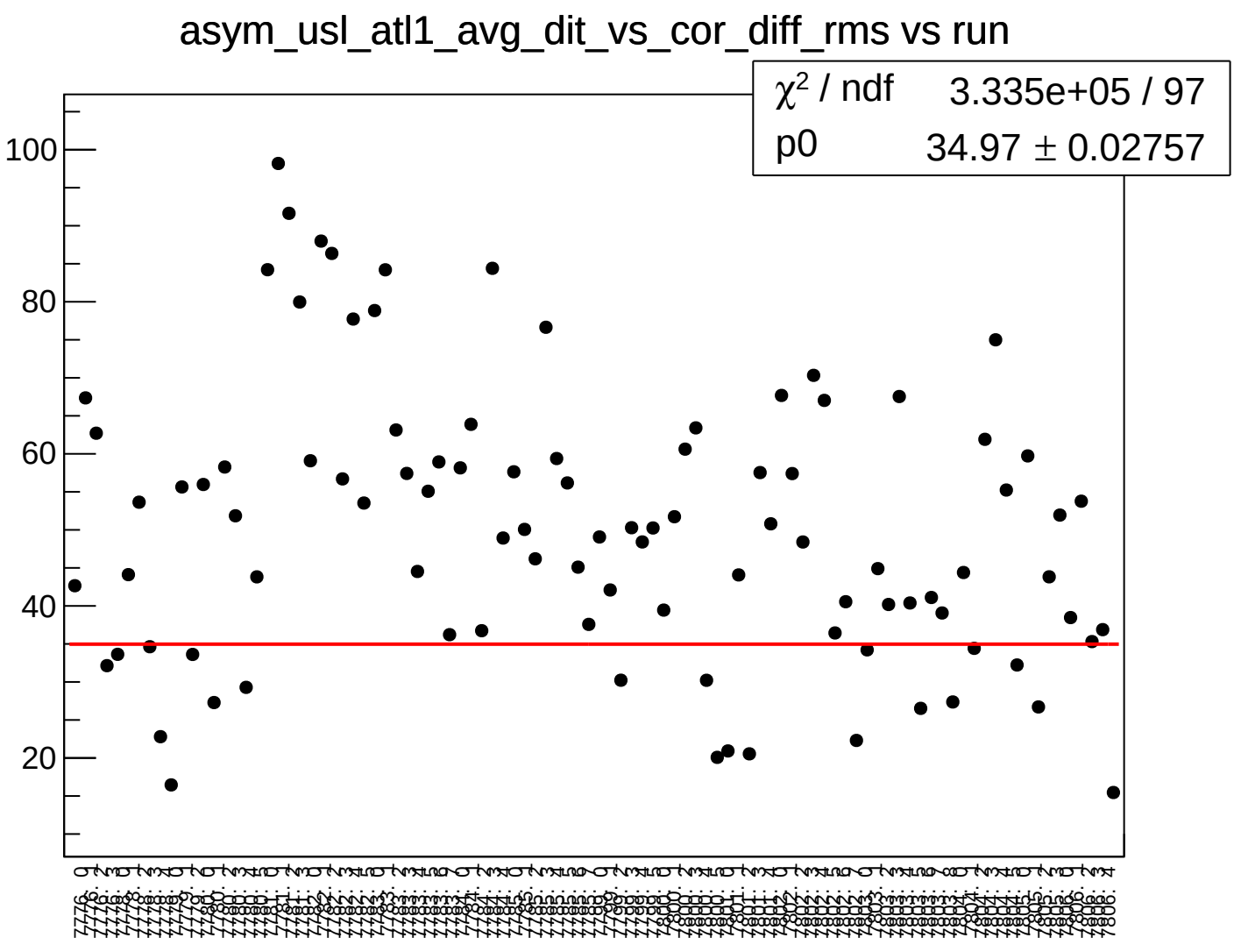

asym_usl_atl1_avg_rms vs run
χ² / ndf 390.1 / 97
p0 1600 ± 1.148
1660
1640
1620
1600
1580
1560
1540
1520

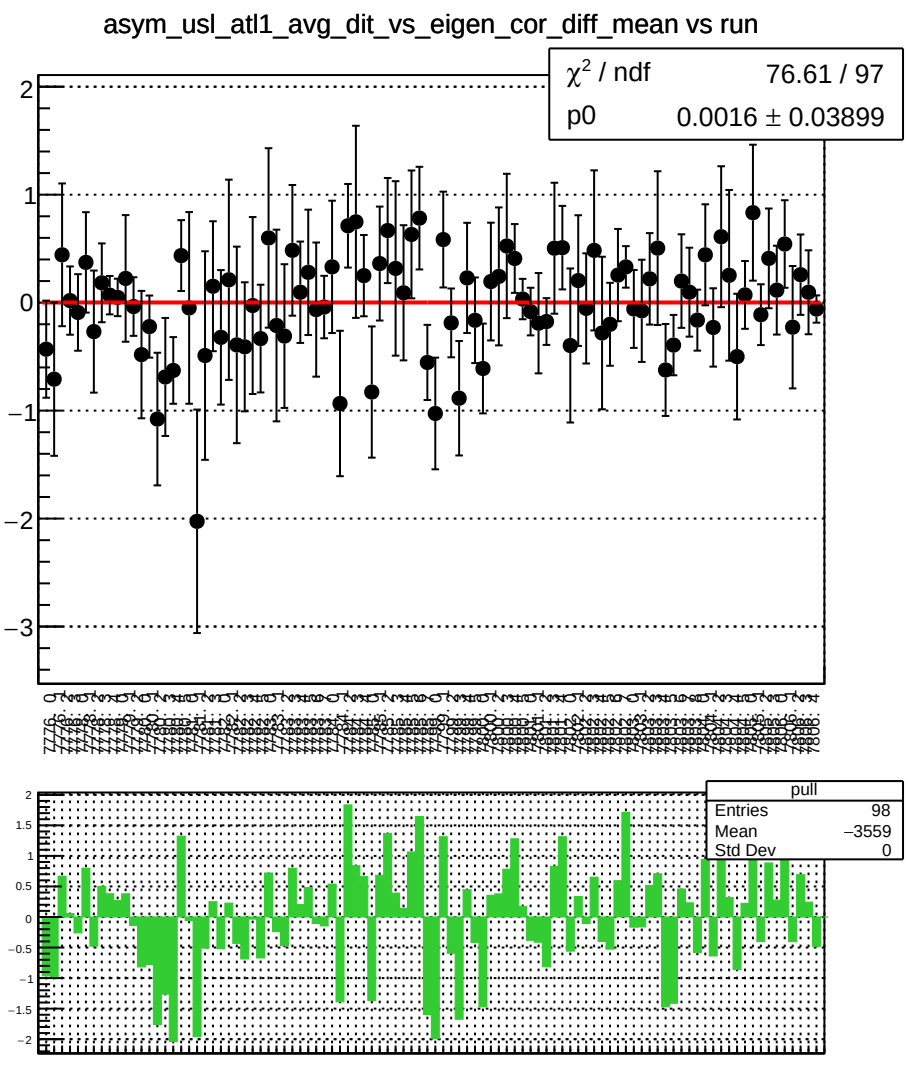

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.91 / 97
p0 −8.066e−15 ± 1.042e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 98
Mean 135.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

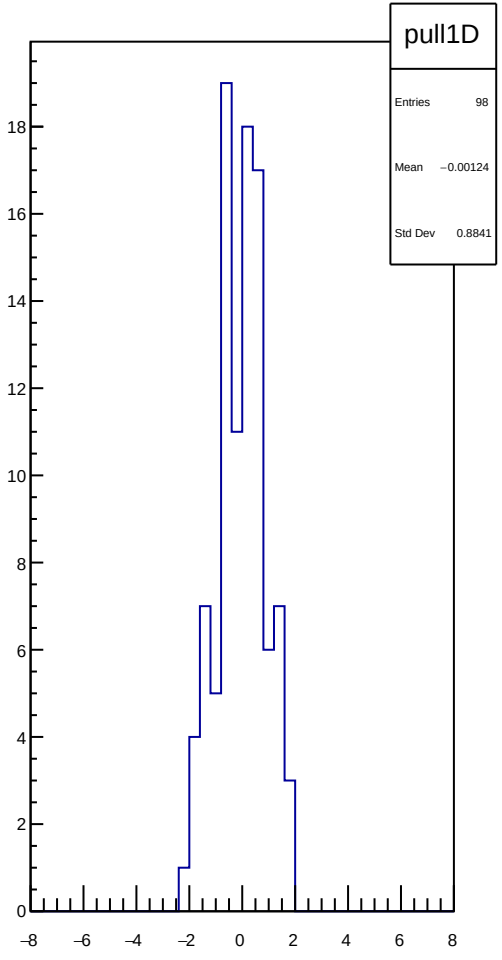

pull1D
Entries 98
Mean −0.01809
Std Dev 0.8624
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

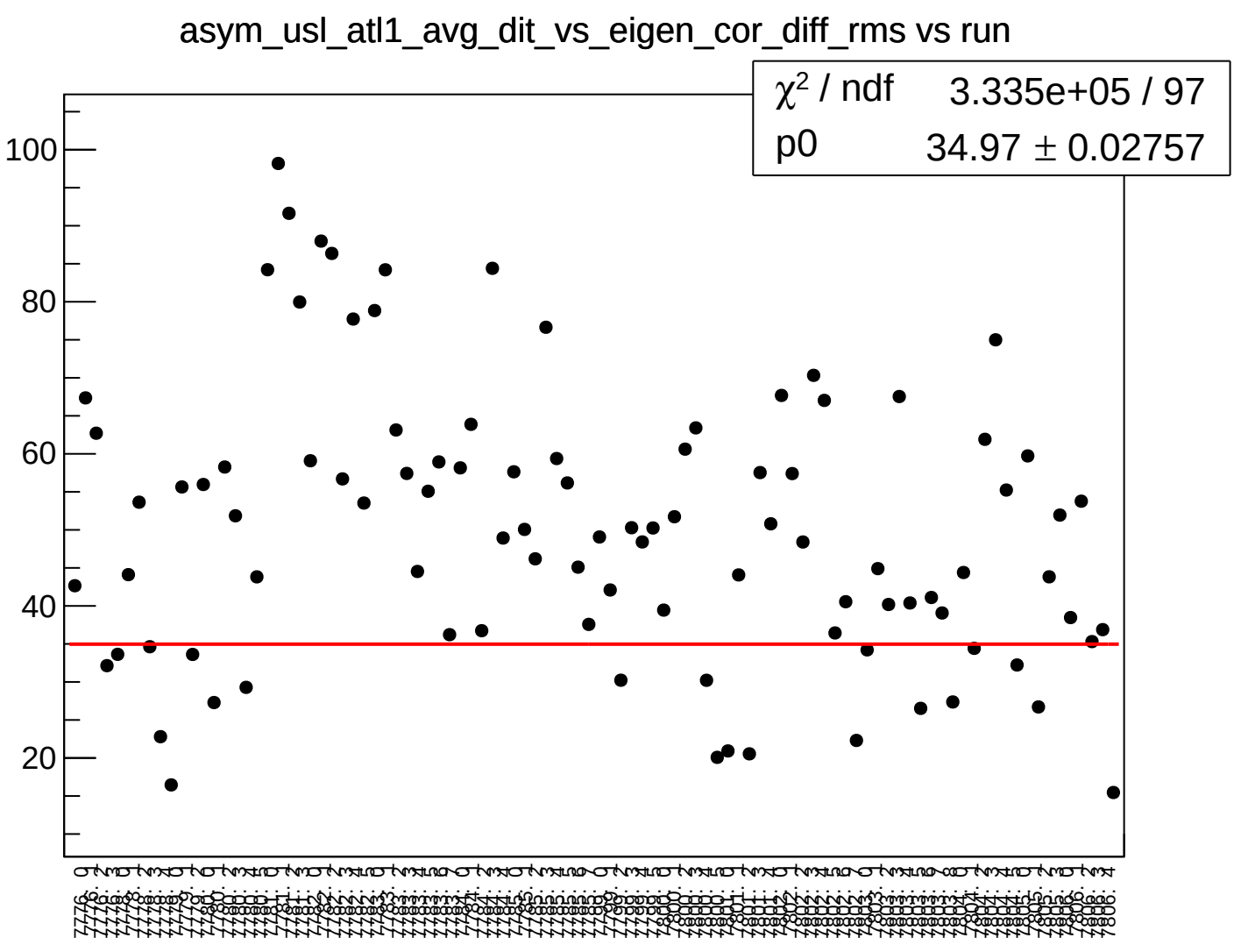

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.089e+05 / 97
p0 7.489e−11 ± 7.365e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

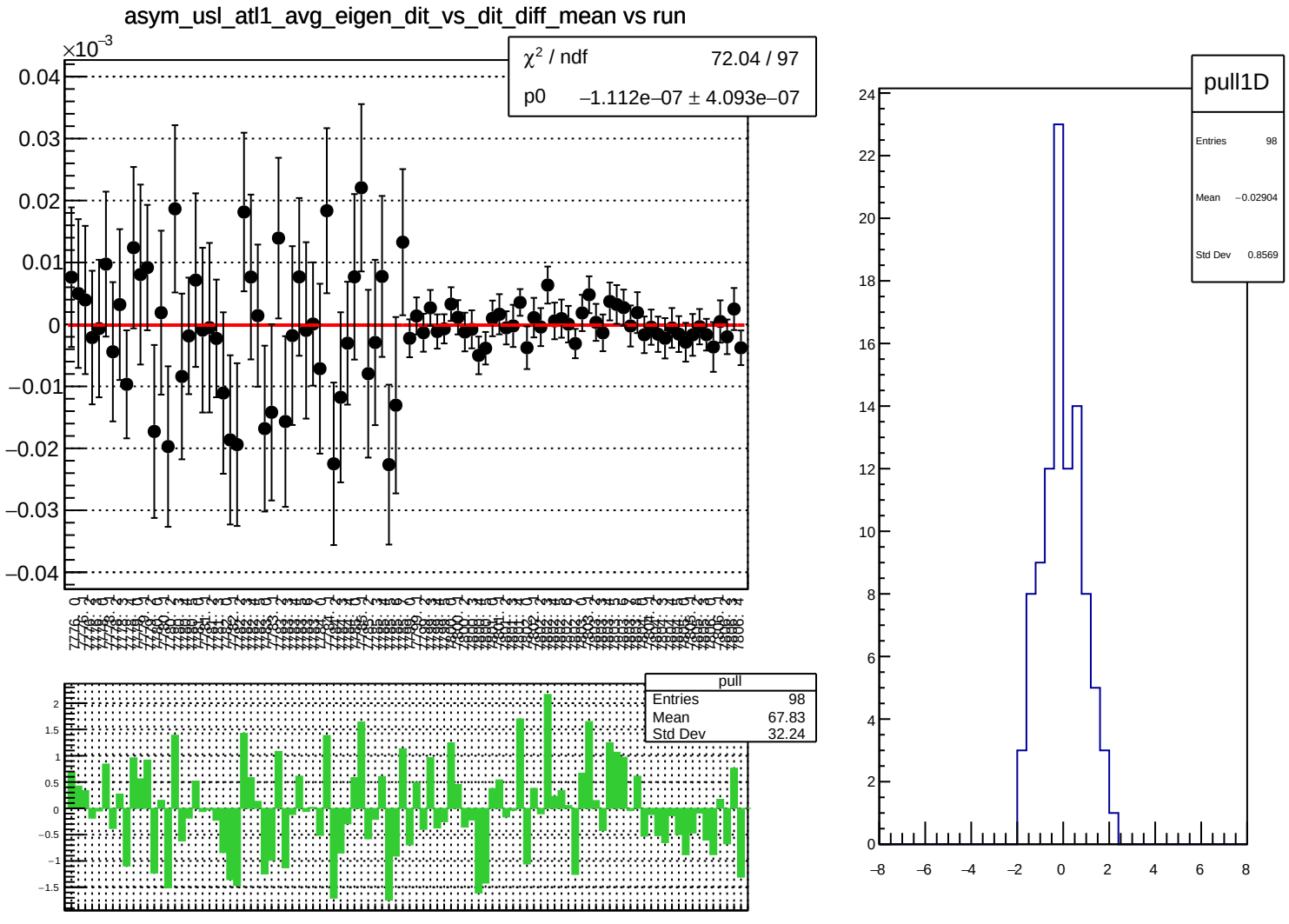

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.61 / 97
p0 0.0016 ± 0.03899
pull
Entries 98
Mean −3559
Std Dev 0
pull1D
Entries 98
Mean −0.00124
Std Dev 0.8841

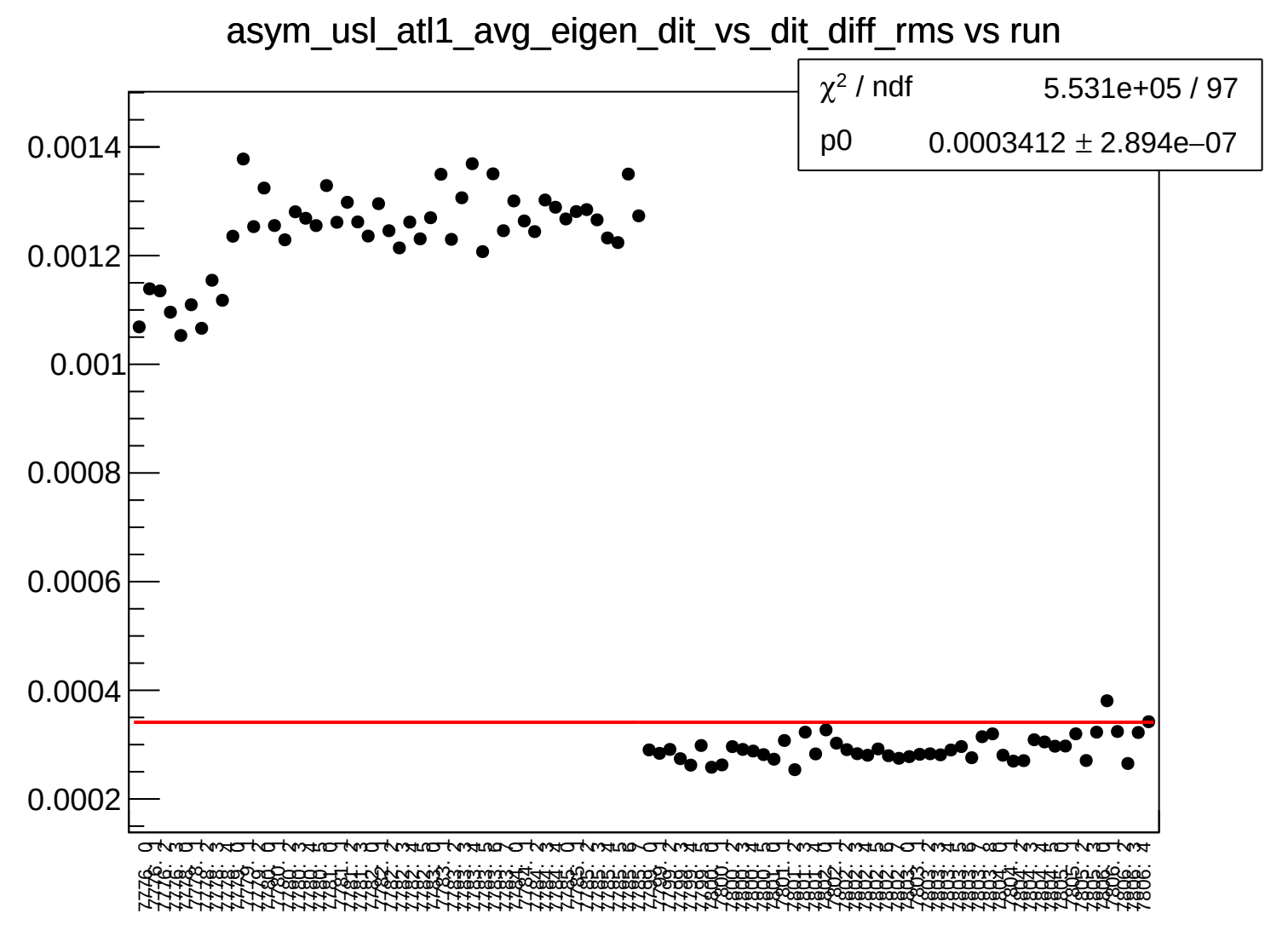

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.335e+05 / 97
p0 34.97 ± 0.02757
100
80
60
40
20

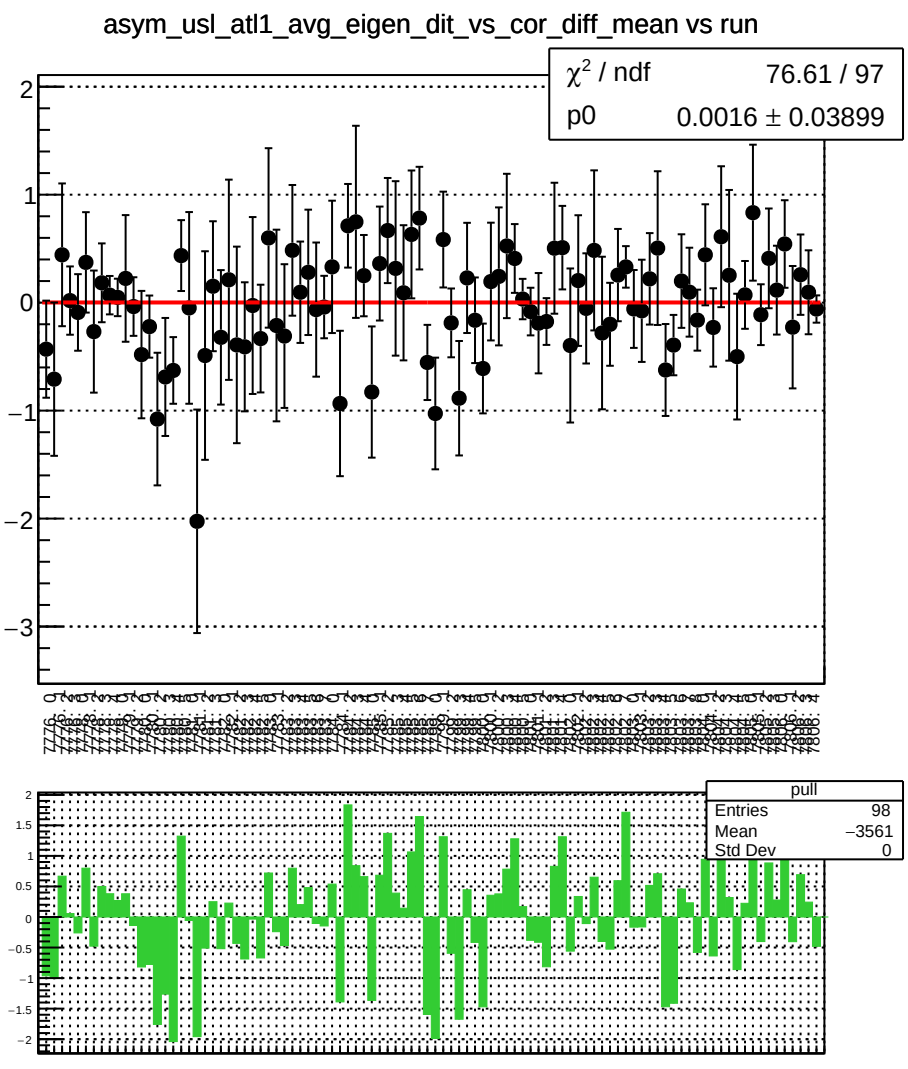

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.61 / 97
p0 0.0016 ± 0.03899
pull
Entries 98
Mean −3559
Std Dev 0

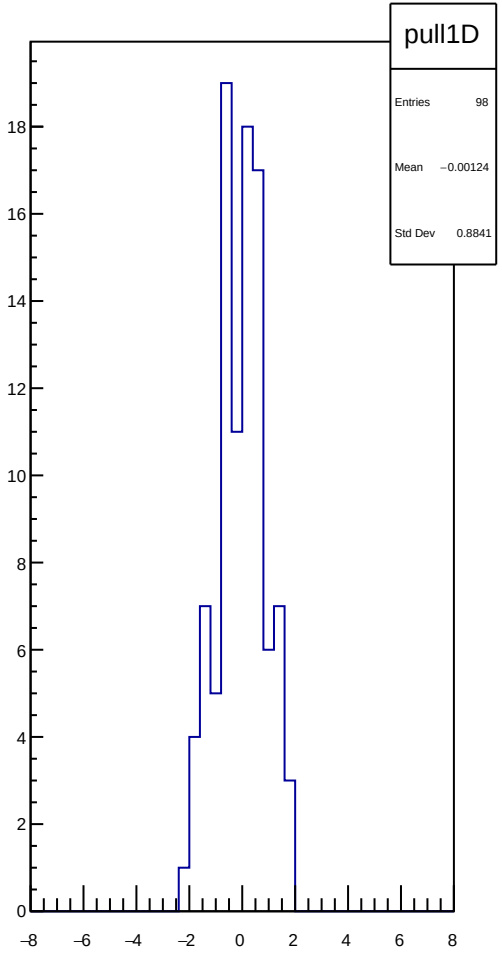

pull1D
Entries 98
Mean −0.00124
Std Dev 0.8841

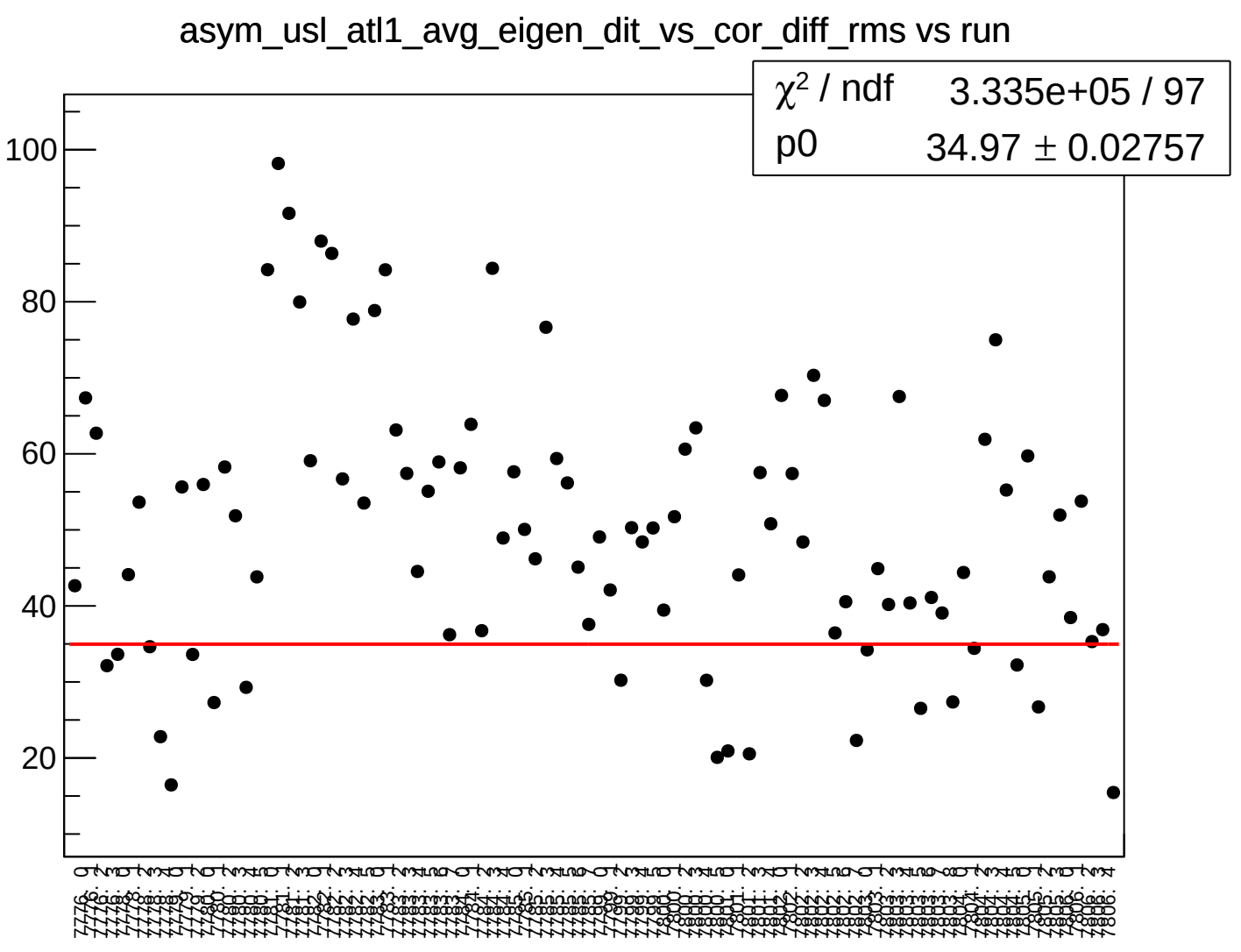

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.335e+05 / 97
p0 34.97 ± 0.02757
100
80
60
40
20

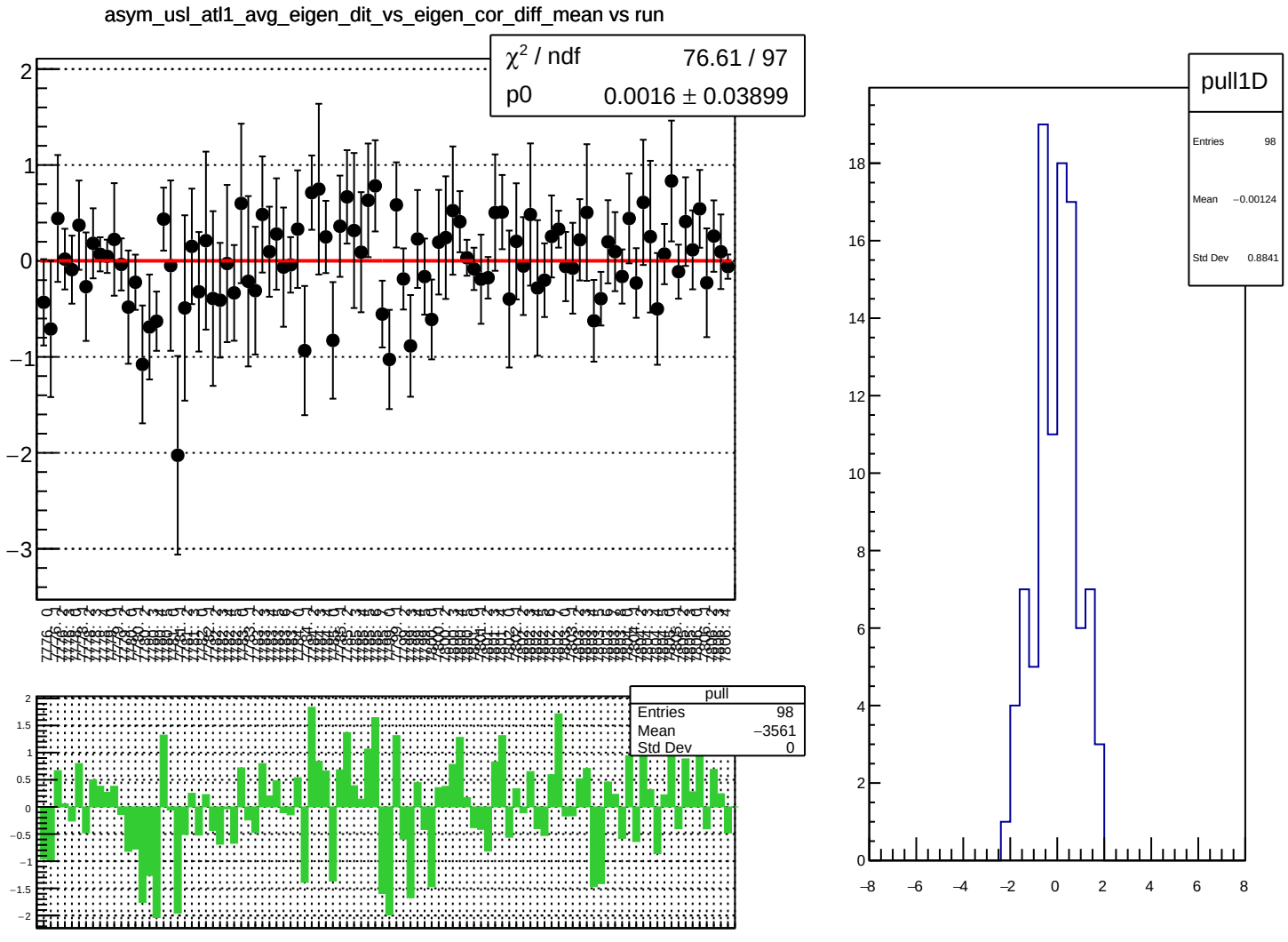

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.04 / 97
p0 −1.112e−07 ± 4.093e−07
pull
Entries 98
Mean 67.83
Std Dev 32.24
pull1D
Entries 98
Mean −0.02904
Std Dev 0.8569

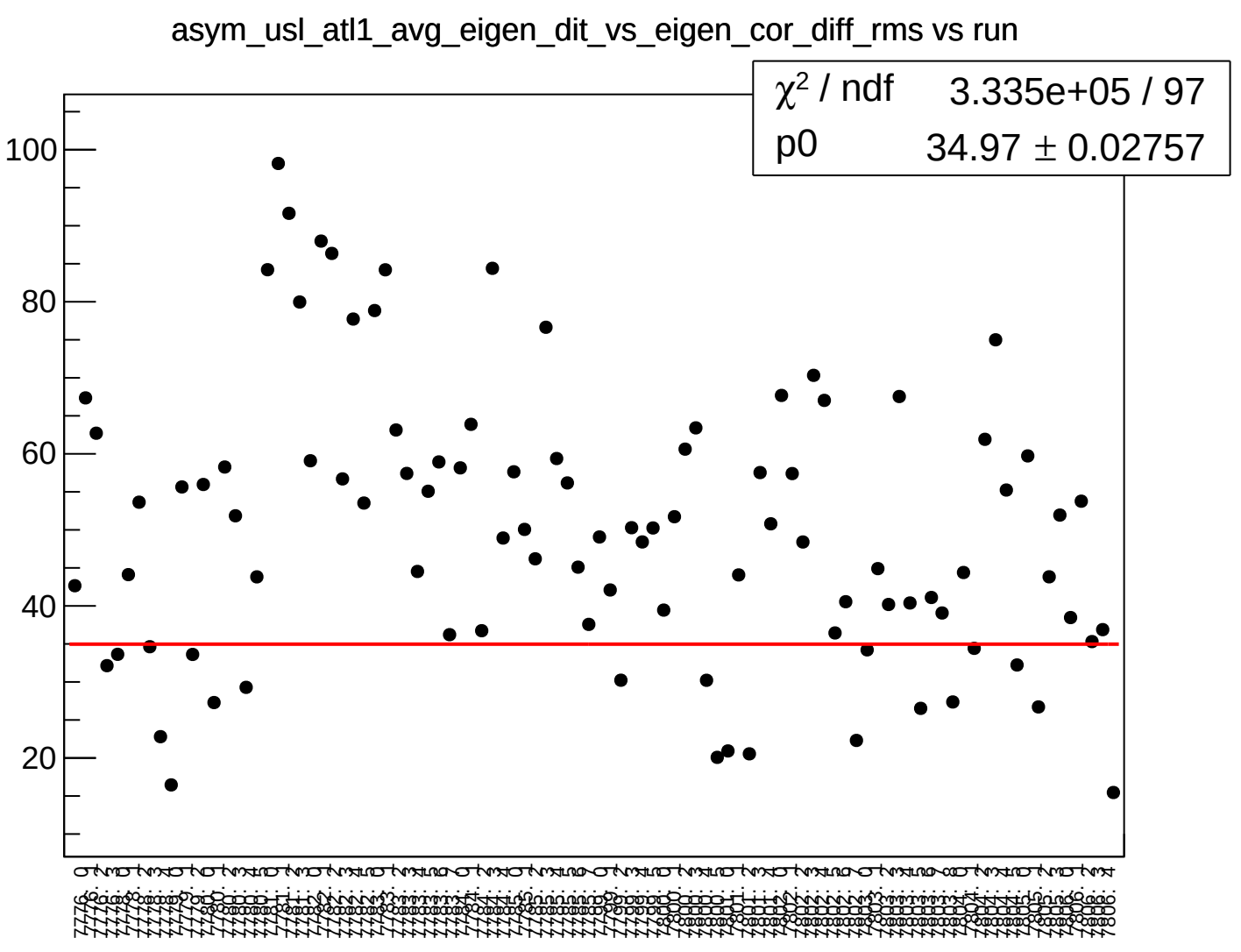

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.531e+05 / 97
p0 0.0003412 ± 2.894e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

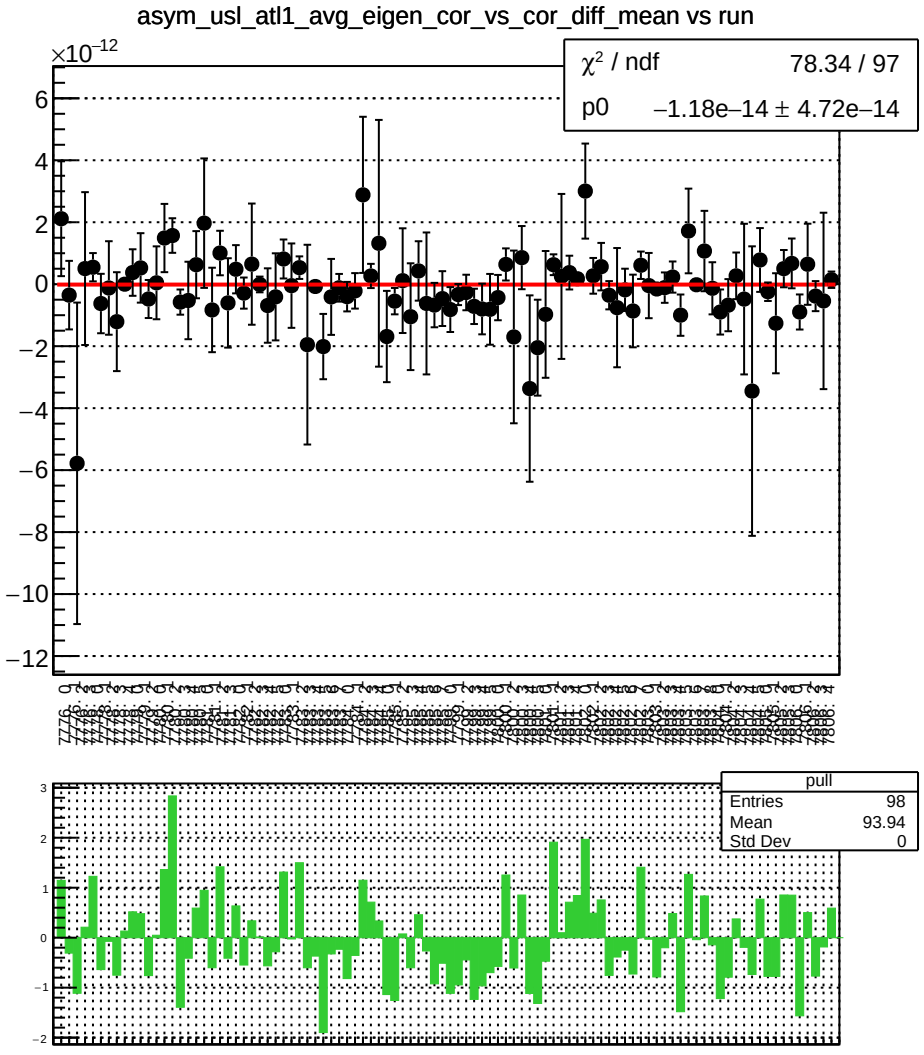

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.61 / 97
p0 0.0016 ± 0.03899
pull
Entries 98
Mean −3561
Std Dev 0

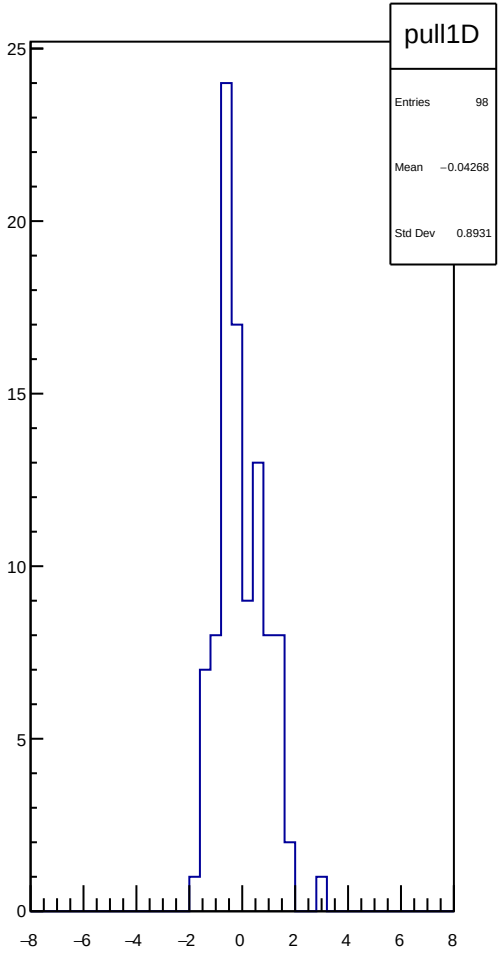

pull1D
Entries 98
Mean −0.00124
Std Dev 0.8841

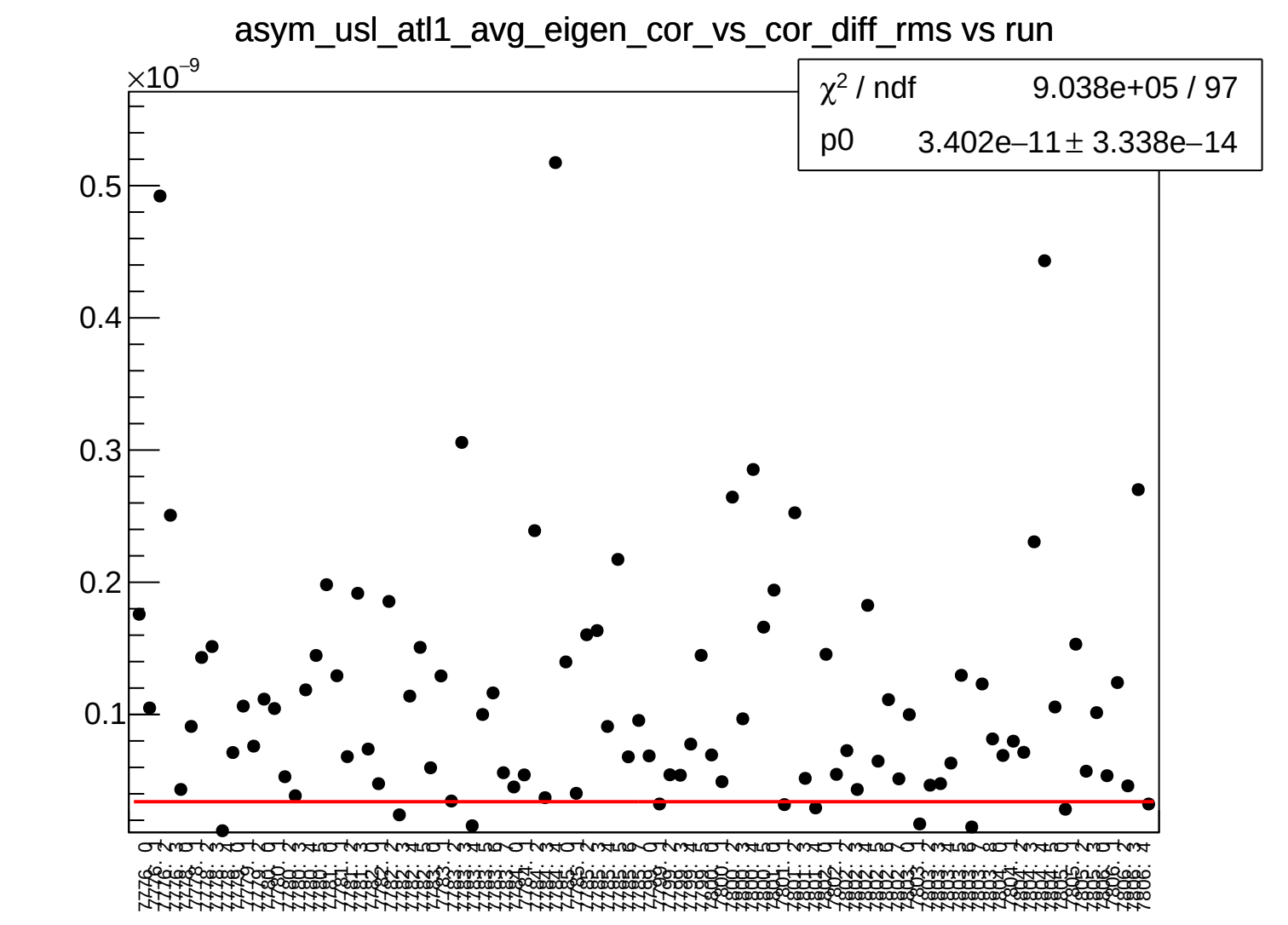

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.335e+05 / 97
p0 34.97 ± 0.02757
100
80
60
40
20

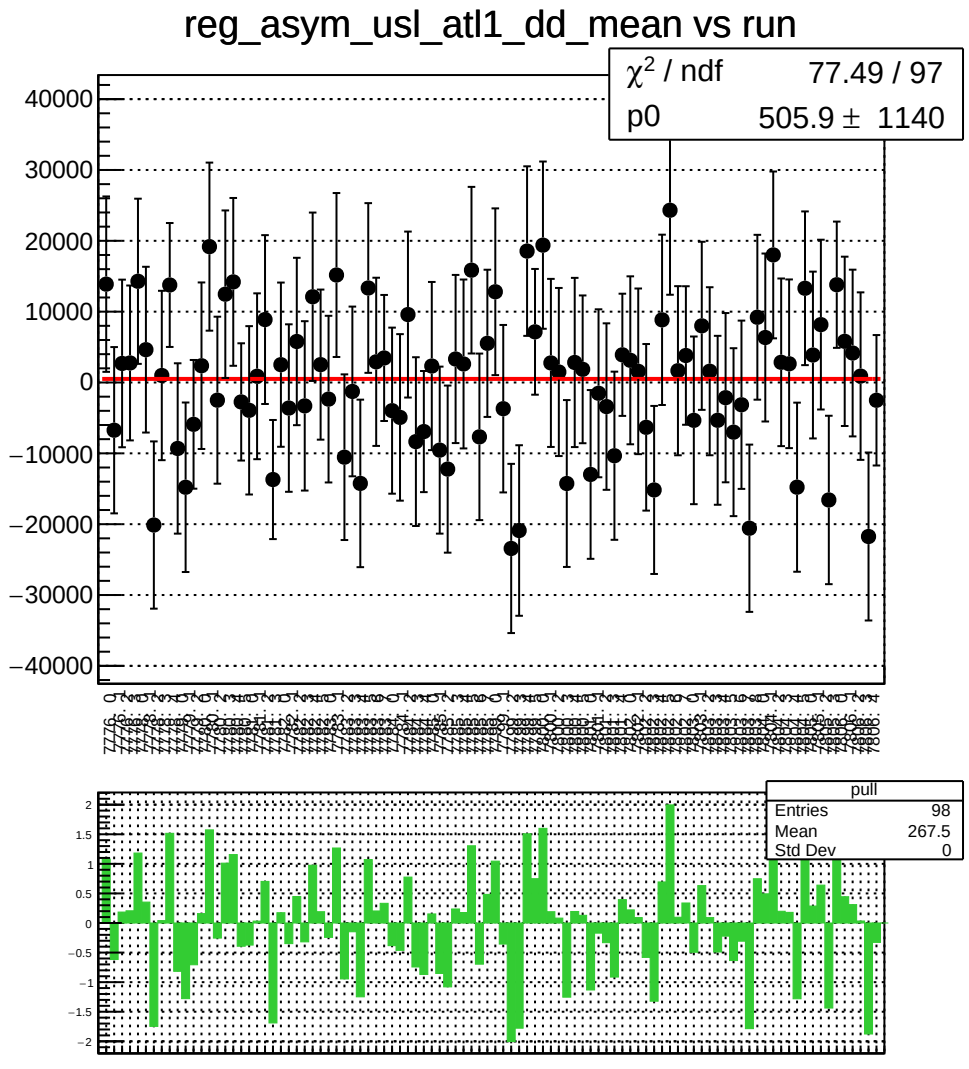

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.61 / 97
p0 0.0016 ± 0.03899
pull
Entries 98
Mean −3561
Std Dev 0
pull1D
Entries 98
Mean −0.00124
Std Dev 0.8841

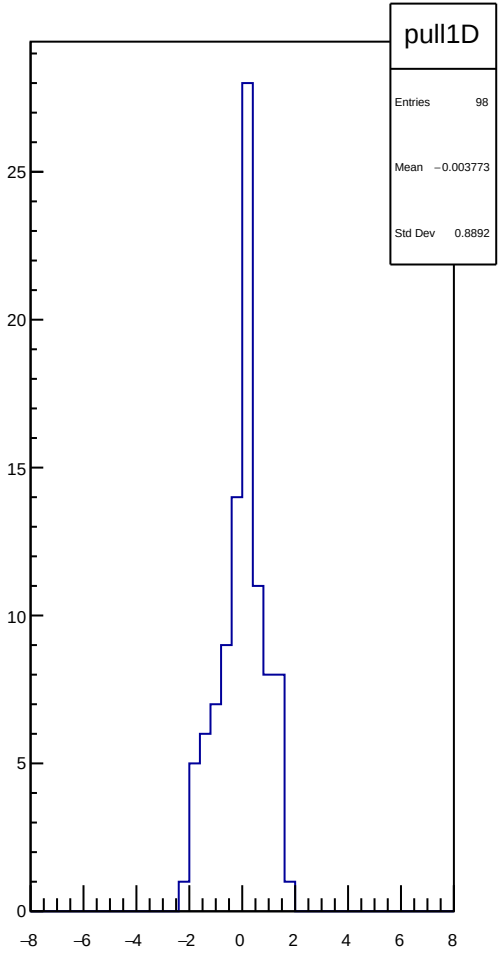

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.335e+05 / 97
p0 34.97 ± 0.02757
100
80
60
40
20

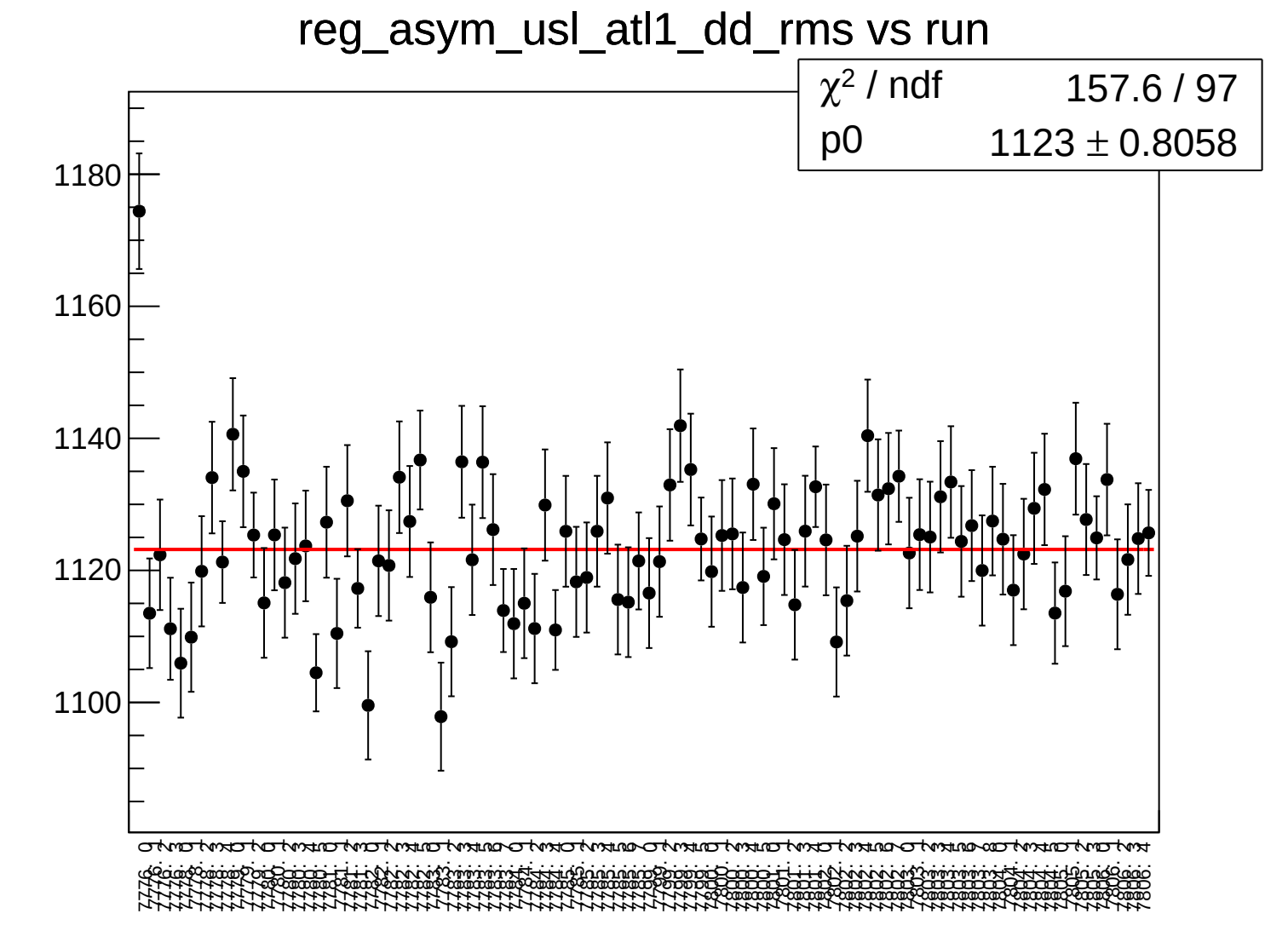

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.34 / 97
p0 −1.18e−14 ± 4.72e−14
pull
Entries 98
Mean 93.94
Std Dev 0

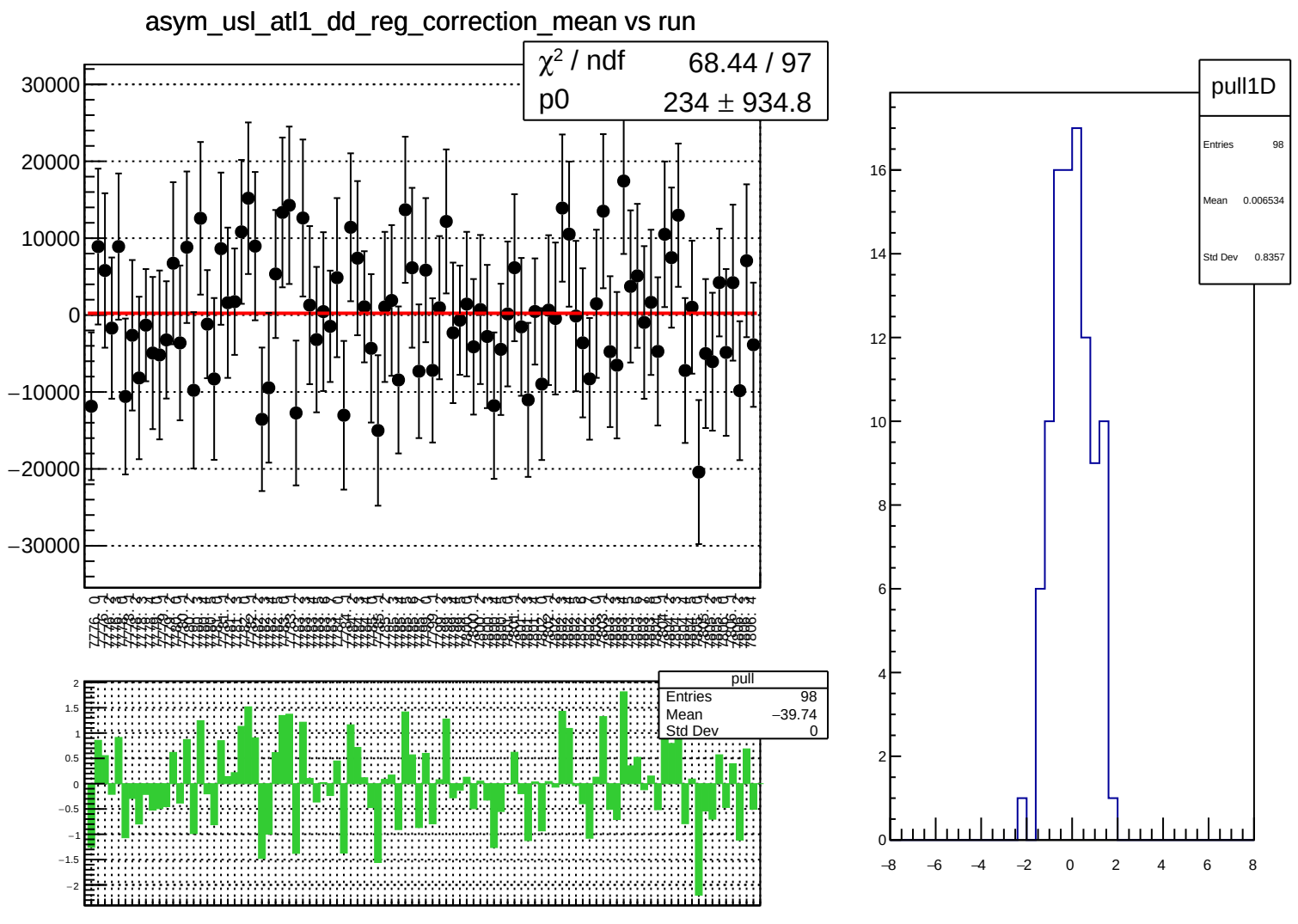

pull1D
Entries 98
Mean −0.04268
Std Dev 0.8931

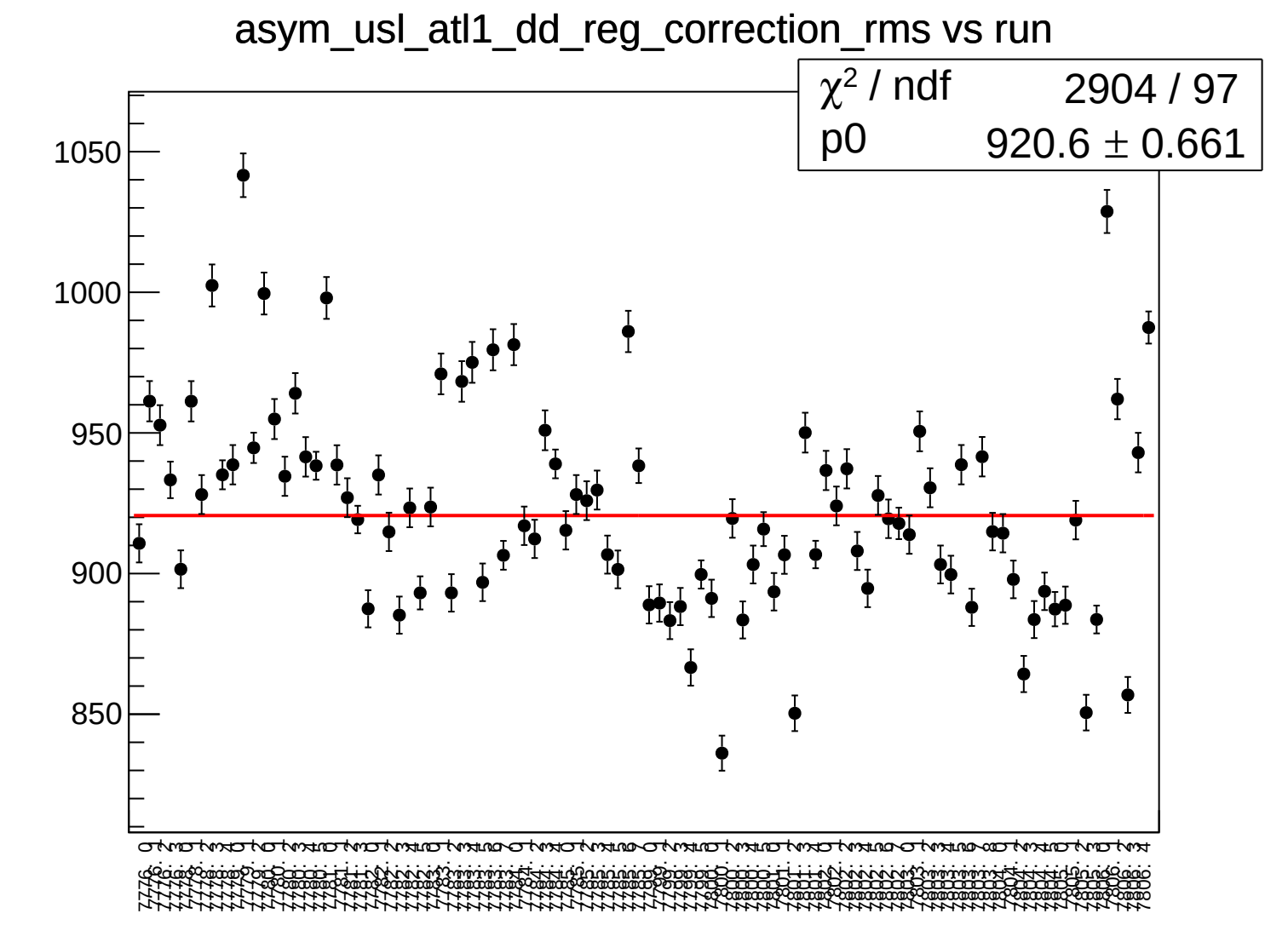

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.038e+05 / 97
p0 3.402e−11 ± 3.338e−14
0.5
0.4
0.3
0.2
0.1

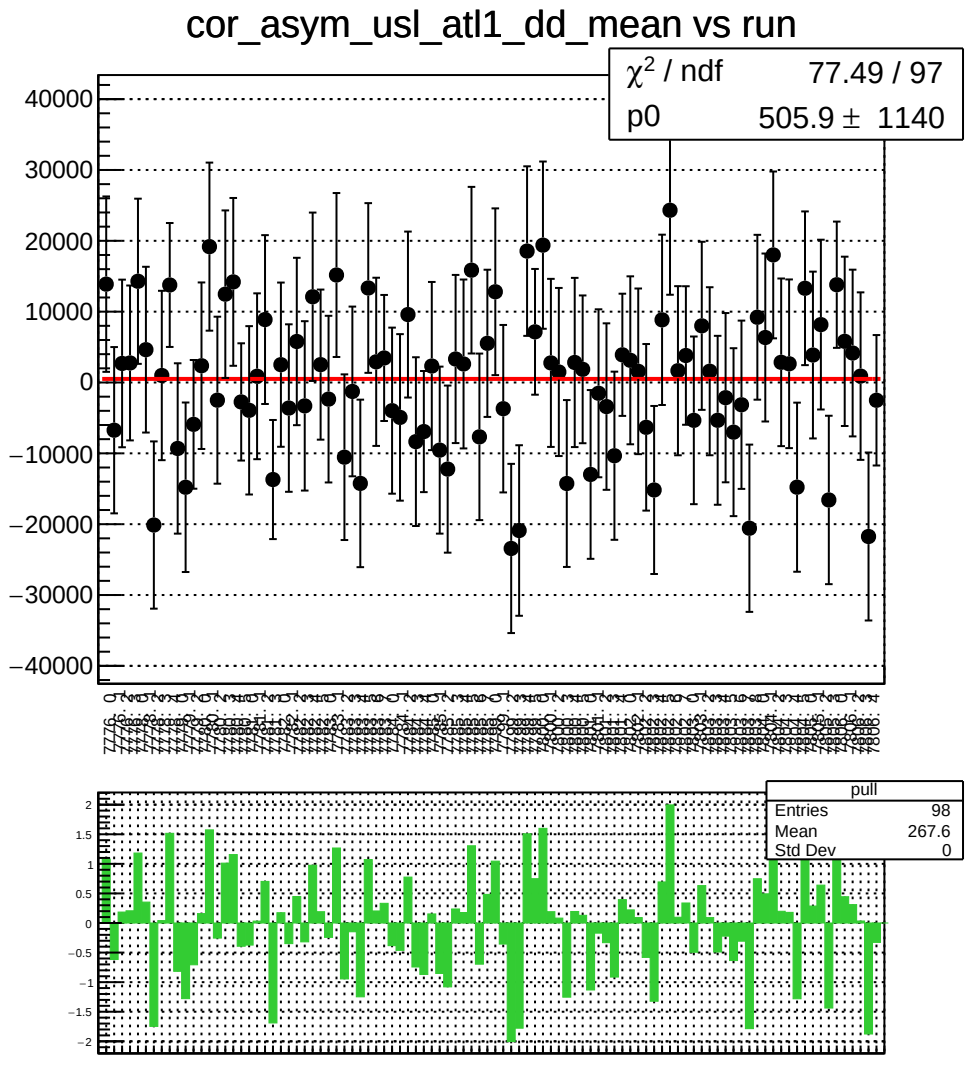

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 77.49 / 97
p0 505.9 ± 1140
pull
Entries 98
Mean 267.5
Std Dev 0

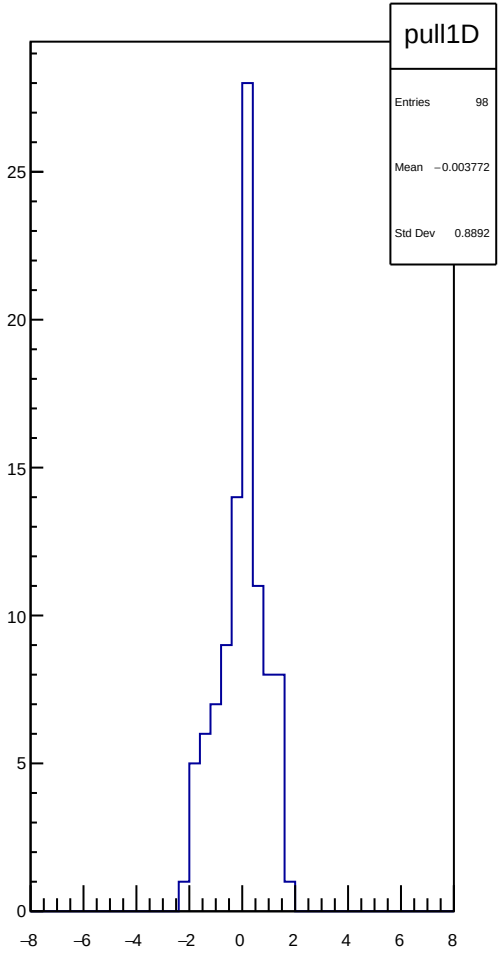

pull1D
Entries 98
Mean −0.003773
Std Dev 0.8892

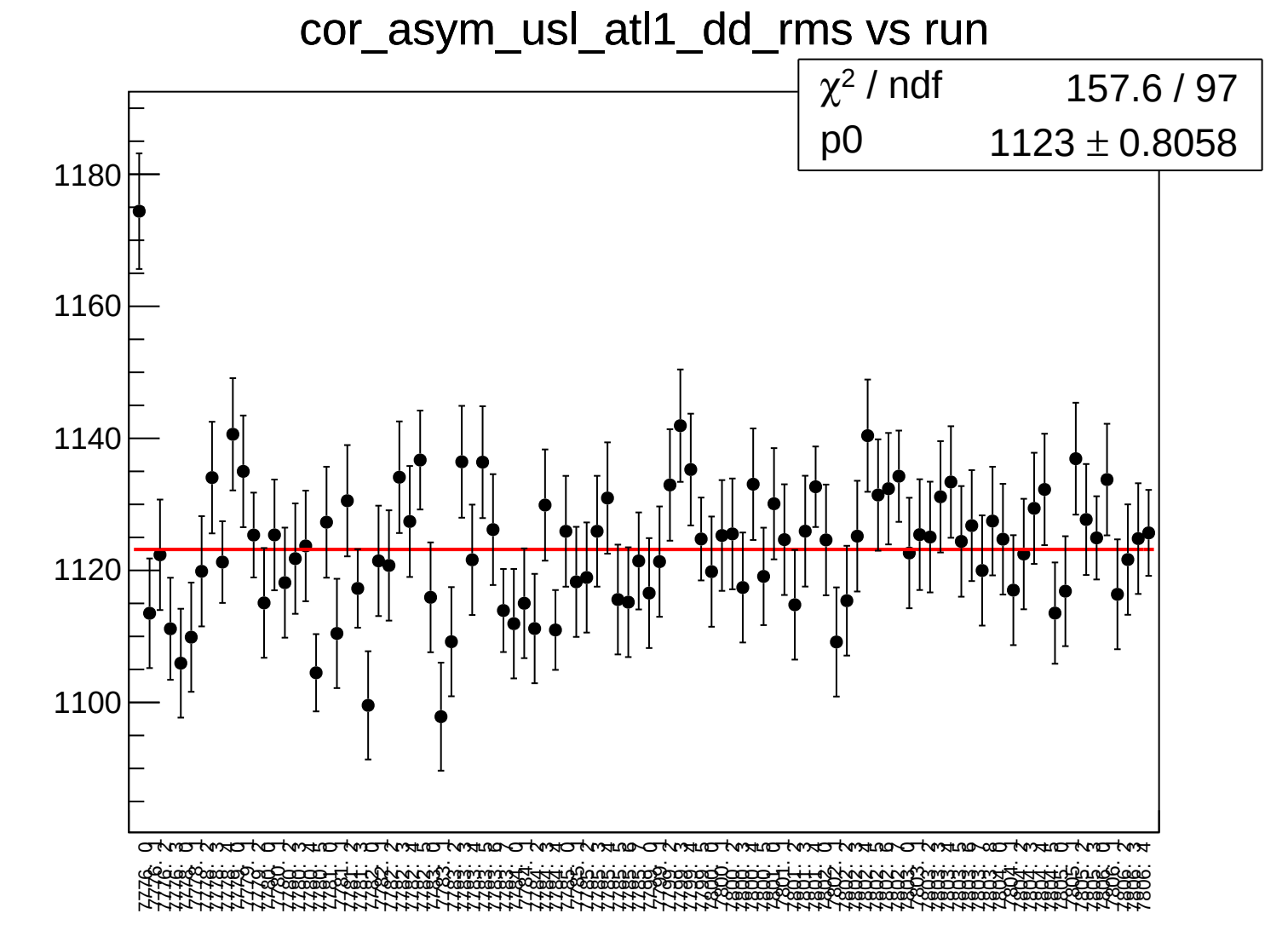

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 157.6 / 97
p0 1123 ± 0.8058
1180
1160
1140
1120
1100

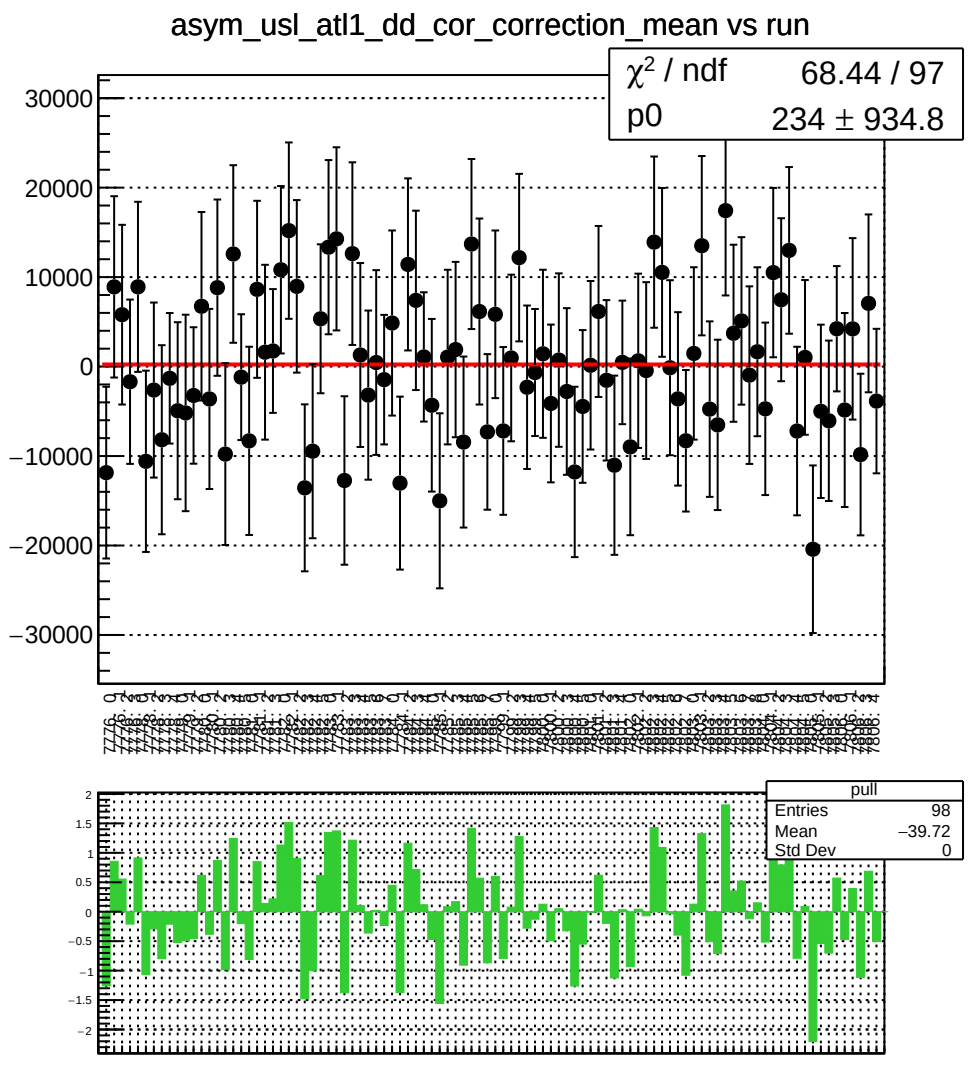

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 68.44 / 97
p0 234 ± 934.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −39.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.006534
Std Dev 0.8357
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

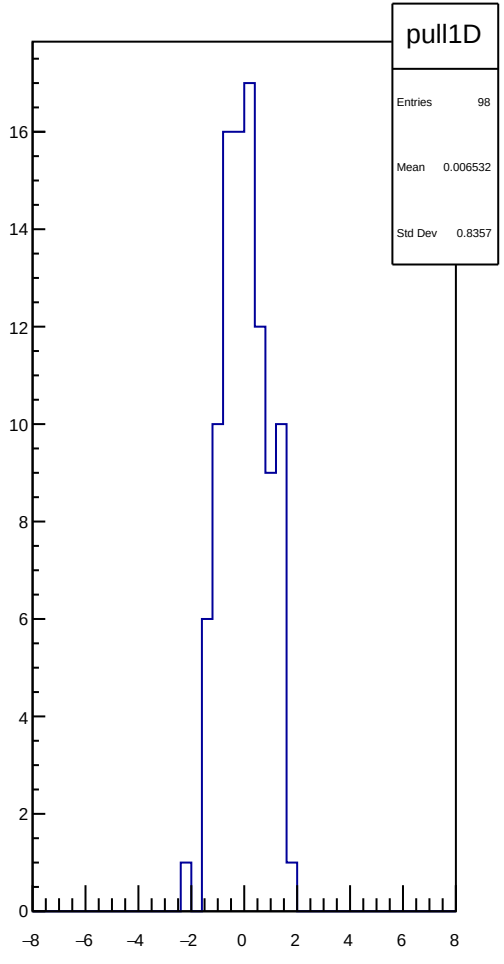

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 2904 / 97
p0 920.6 ± 0.661
1050
1000
950
900
850

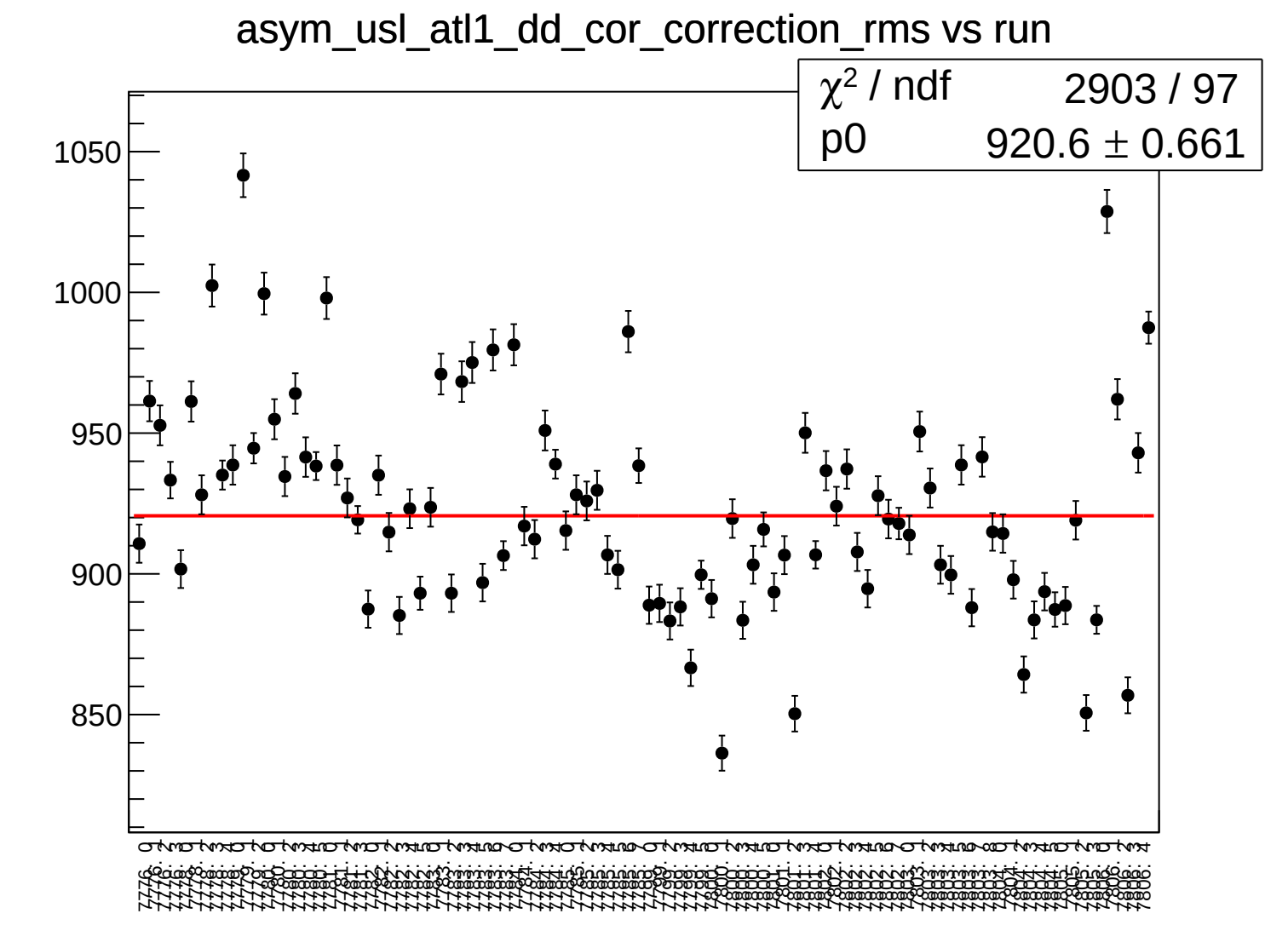

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 77.49 / 97
p0 505.9 ± 1140
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 267.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

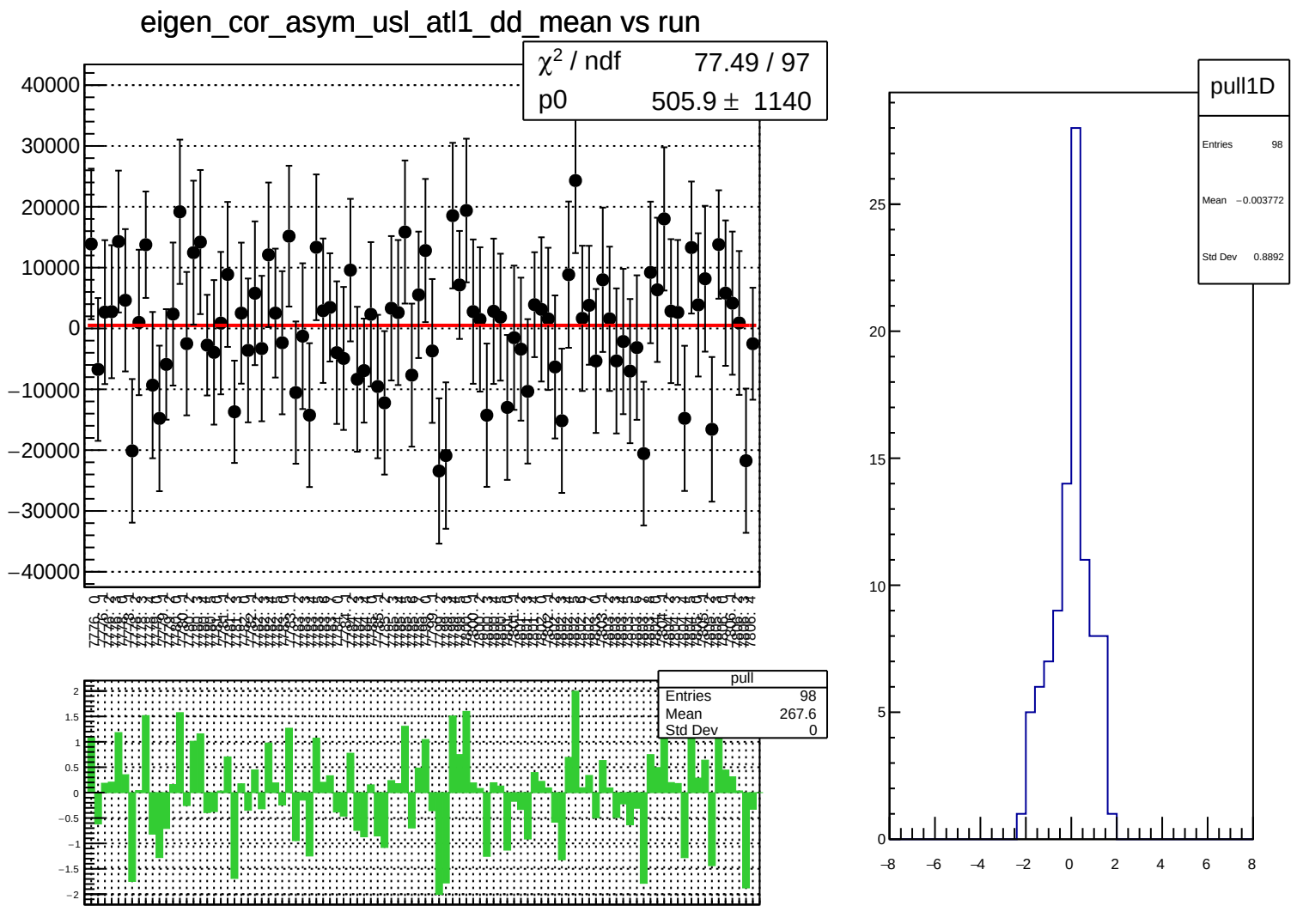

pull1D
Entries 98
Mean −0.003772
Std Dev 0.8892
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

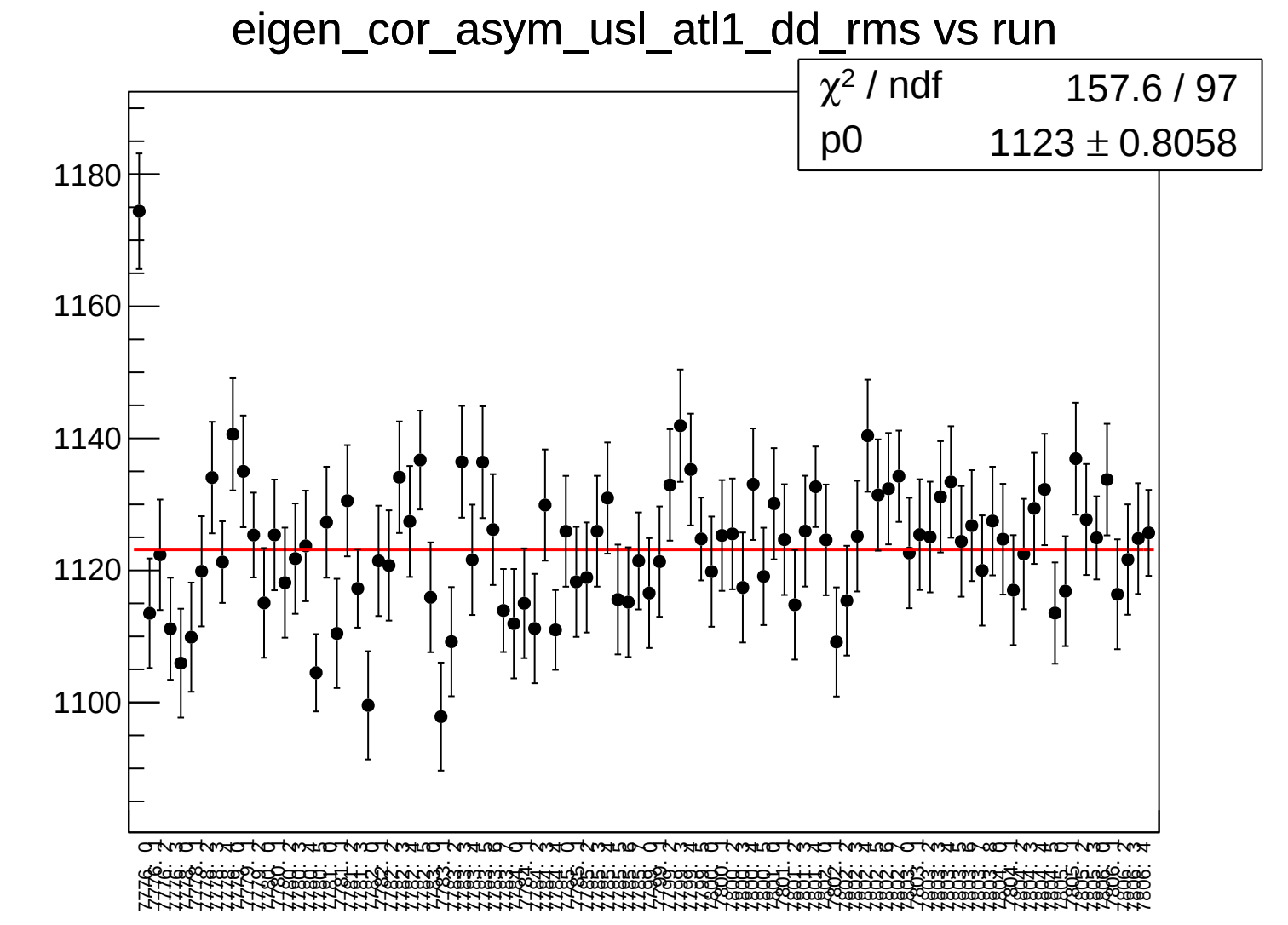

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 157.6 / 97
p0 1123 ± 0.8058
1180
1160
1140
1120
1100

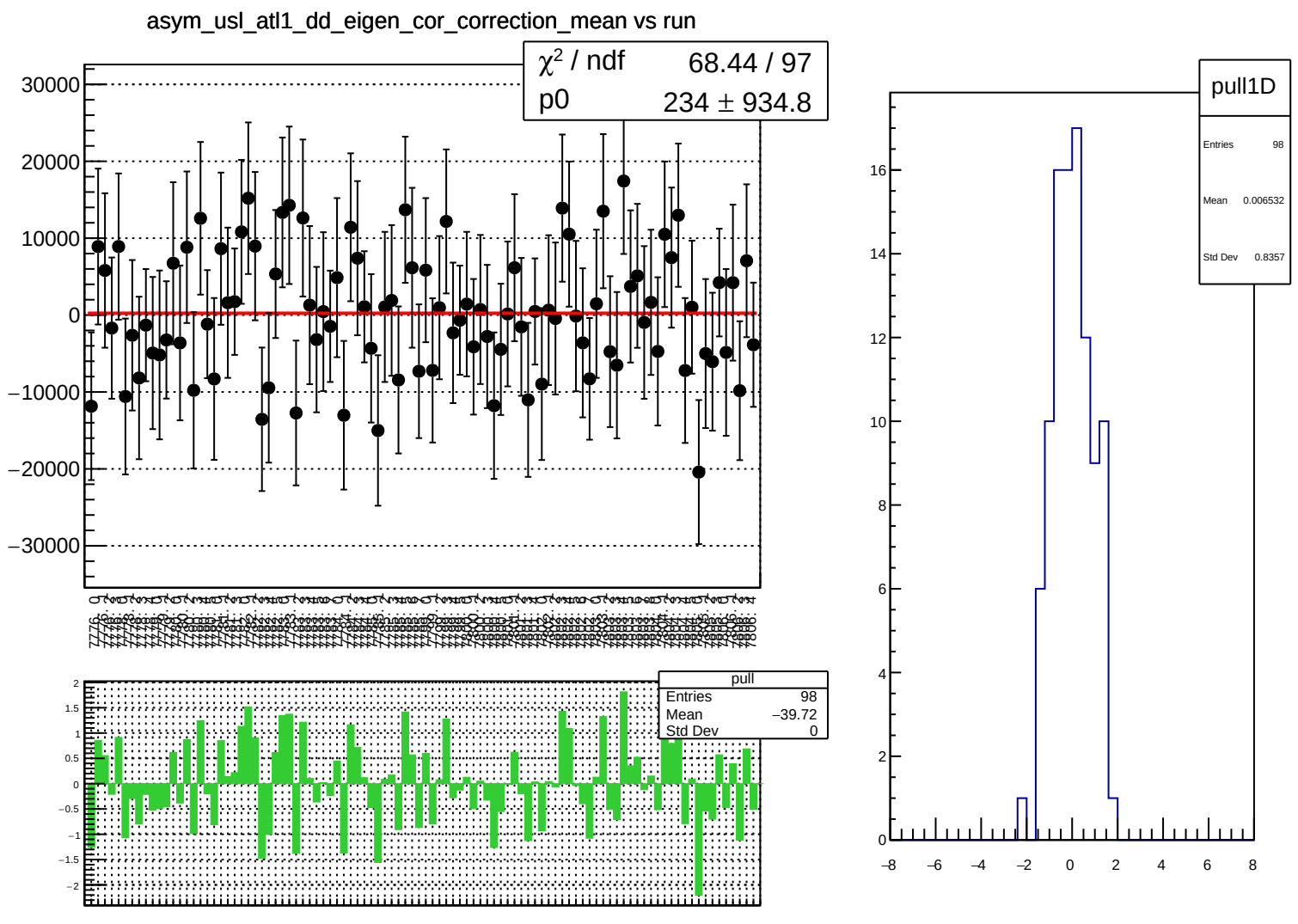

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 68.44 / 97
p0 234 ± 934.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −39.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

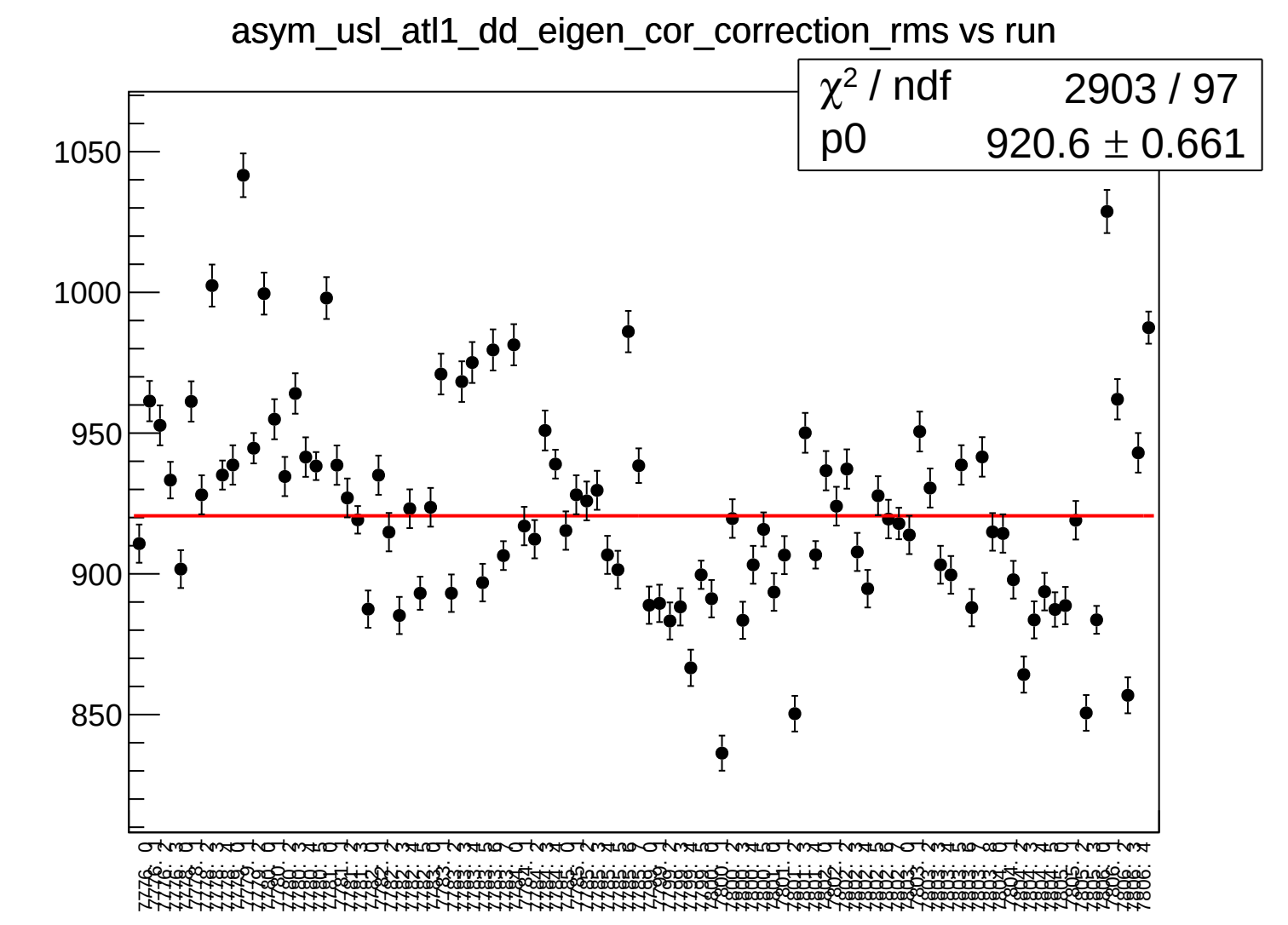

pull1D
Entries 98
Mean 0.006532
Std Dev 0.8357
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

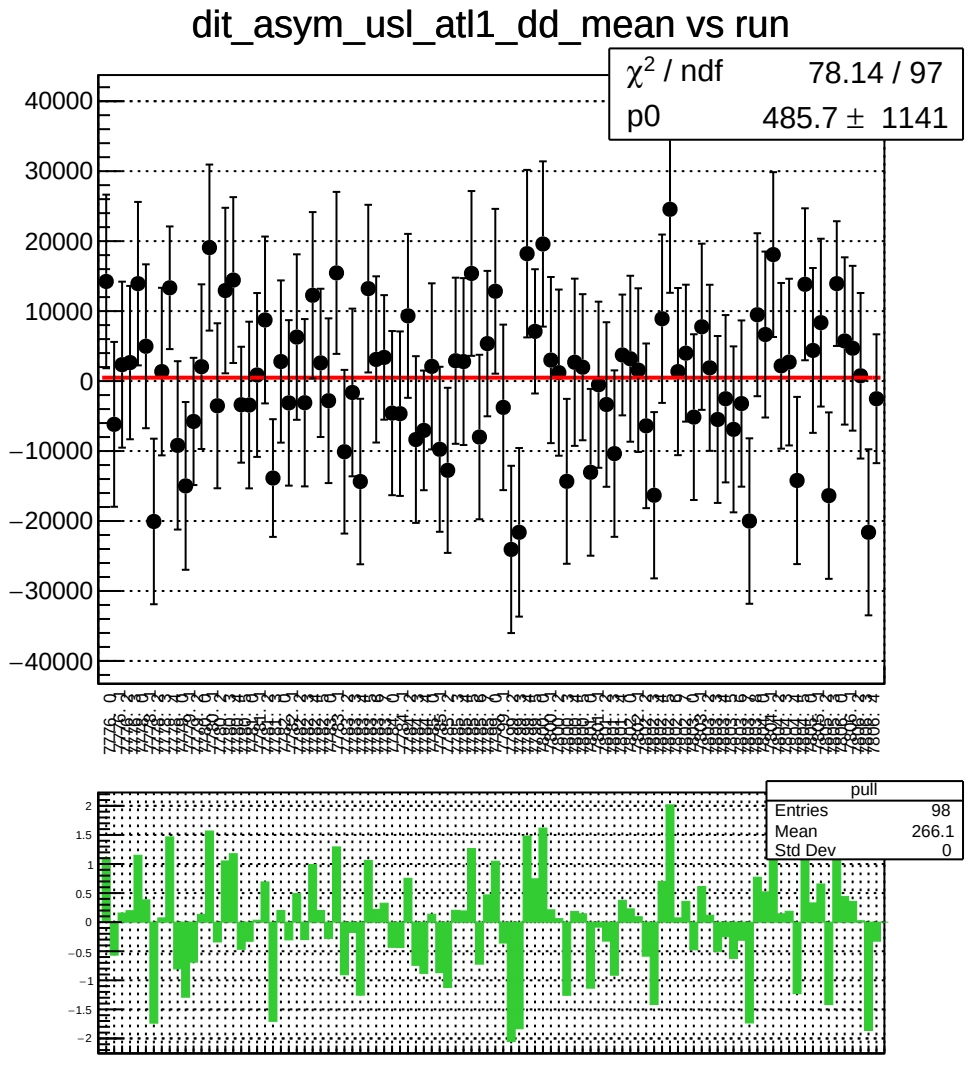

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 2903 / 97
p0 920.6 ± 0.661
1050
1000
950
900
850

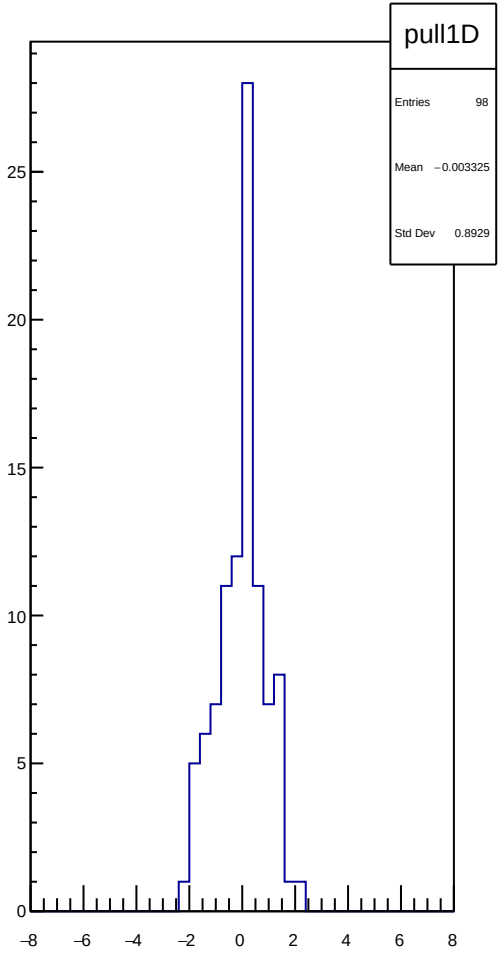

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 77.49 / 97
p0 505.9 ± 1140
pull
Entries 98
Mean 267.6
Std Dev 0
pull1D
Entries 98
Mean −0.003772
Std Dev 0.8892

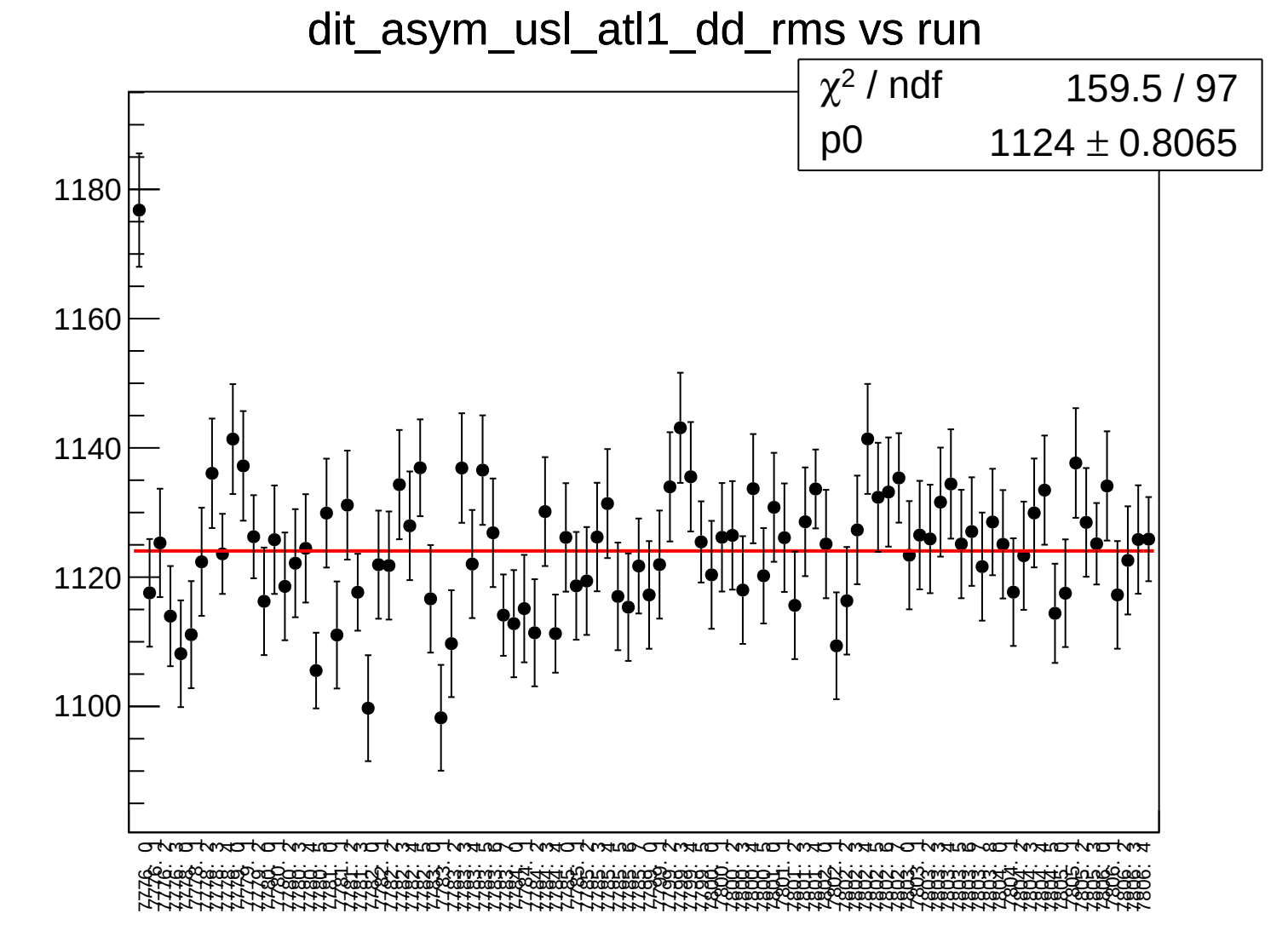

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 157.6 / 97
p0 1123 ± 0.8058
1180
1160
1140
1120
1100

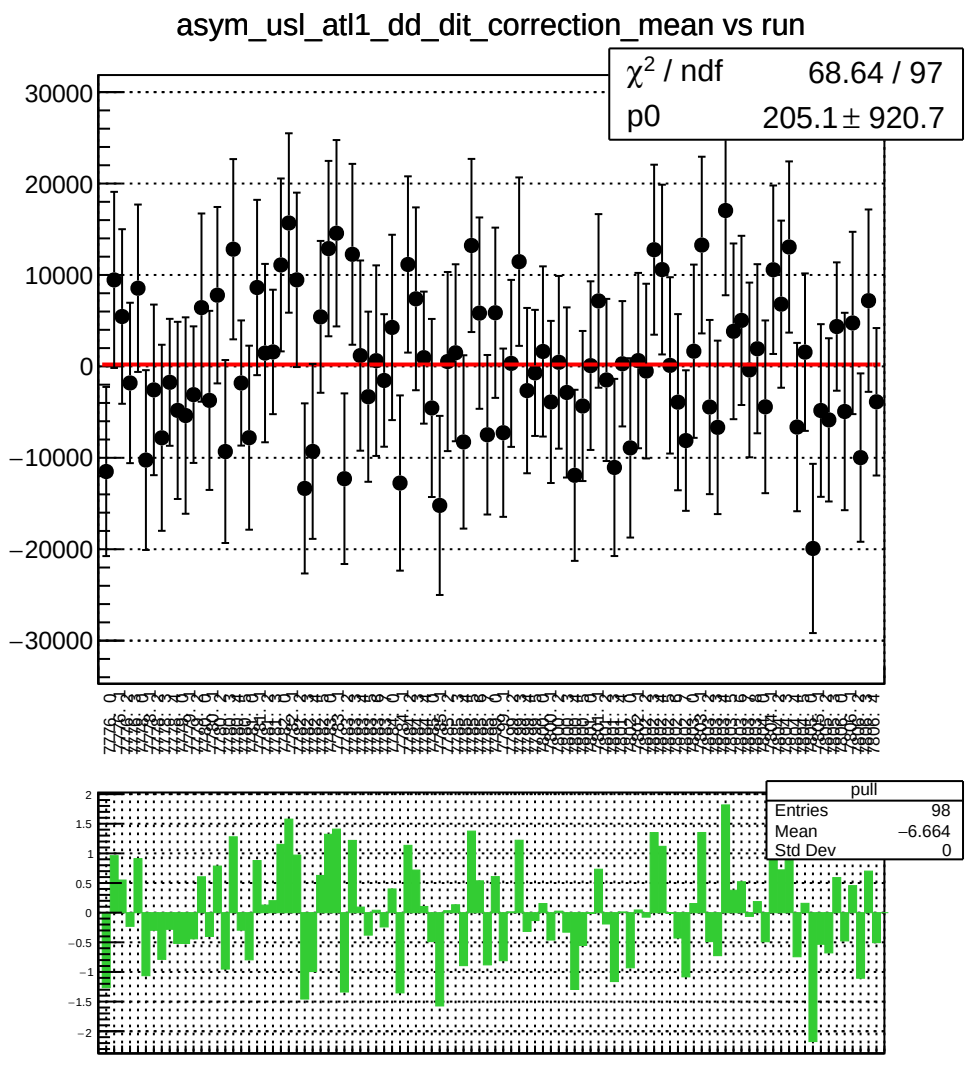

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.44 / 97
p0 234 ± 934.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −39.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.006532
Std Dev 0.8357
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

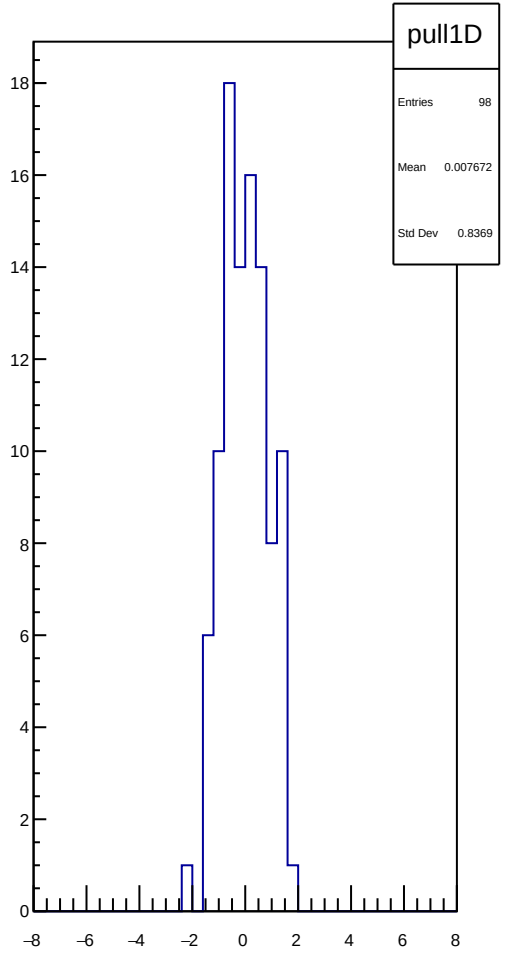

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2903 / 97
p0 920.6 ± 0.661
1050
1000
950
900
850

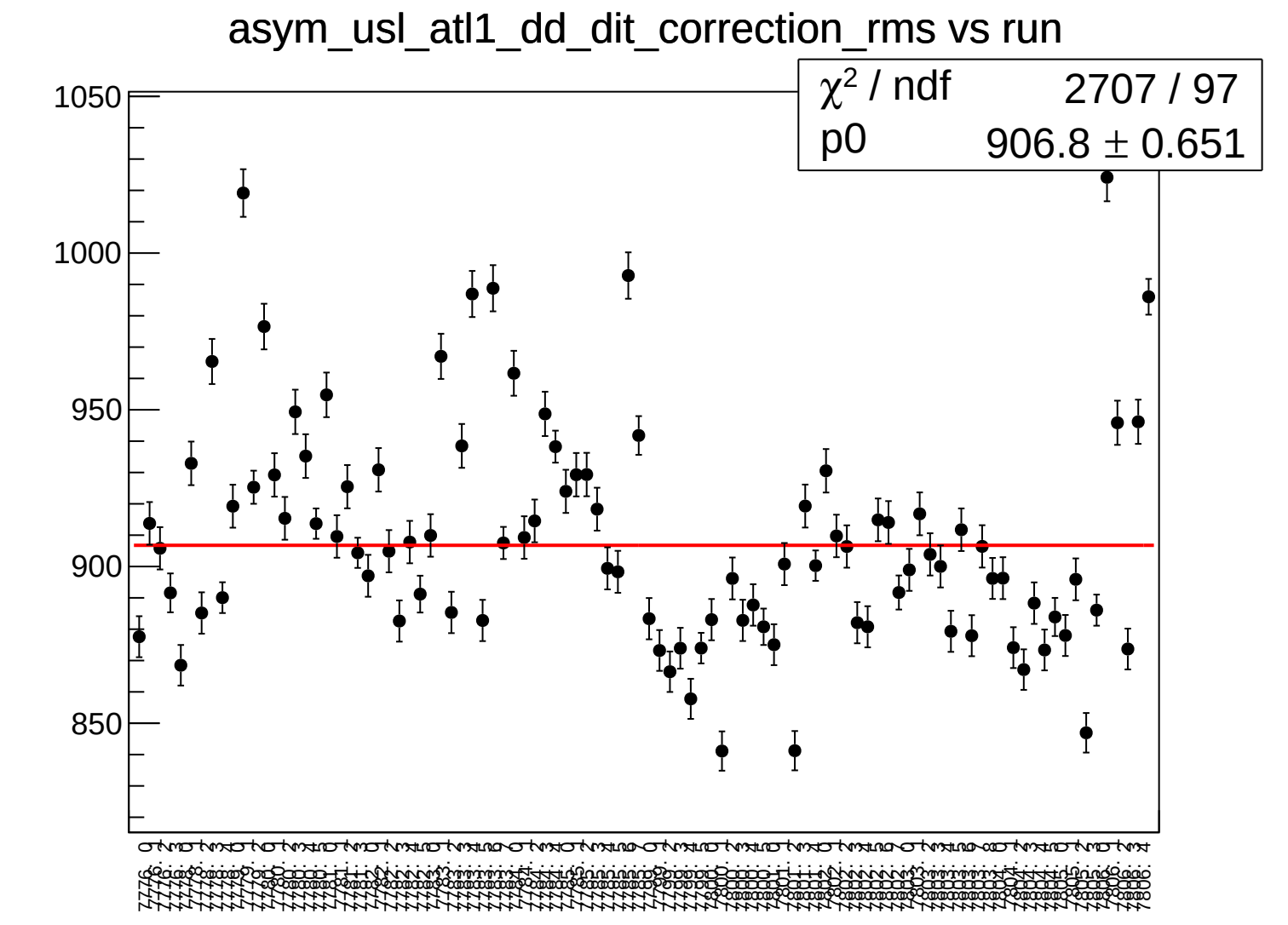

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 78.14 / 97
p0 485.7 ± 1141
pull
Entries 98
Mean 266.1
Std Dev 0

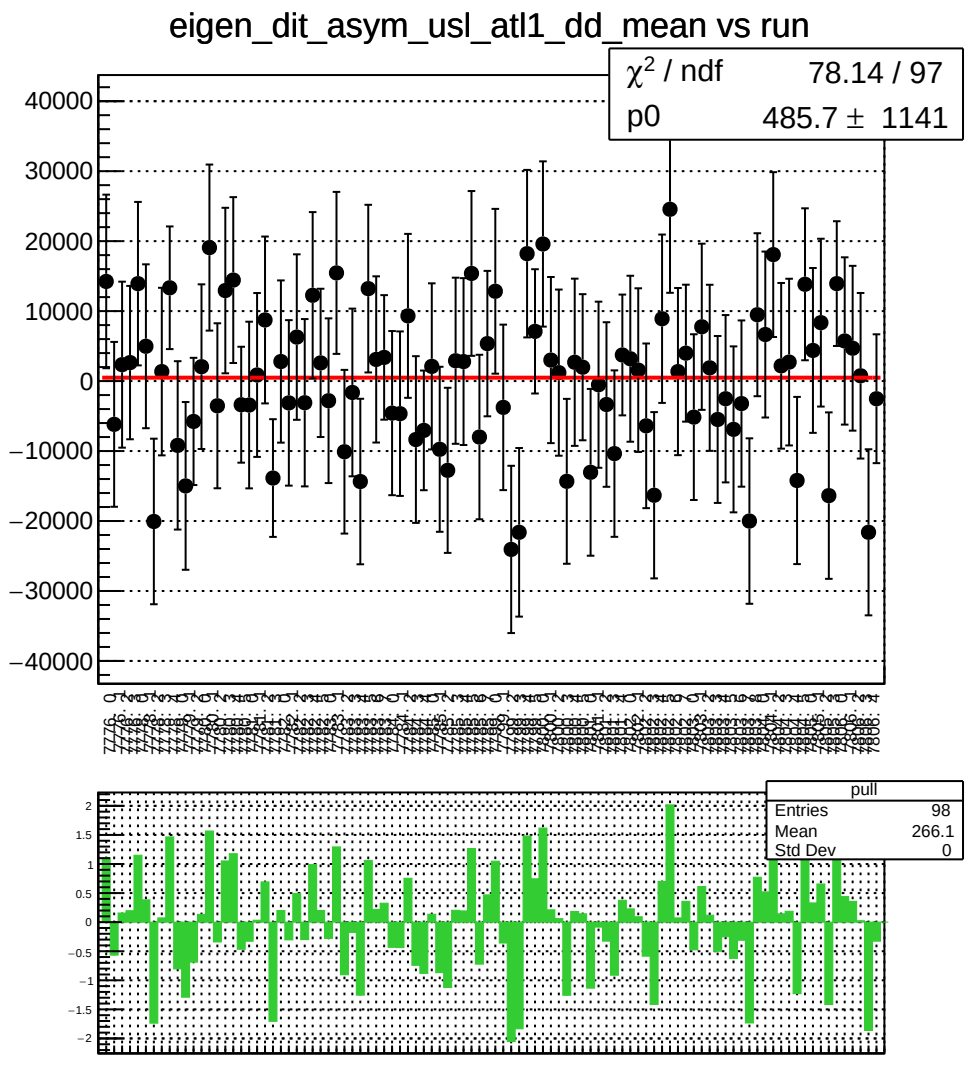

pull1D
Entries 98
Mean −0.003325
Std Dev 0.8929

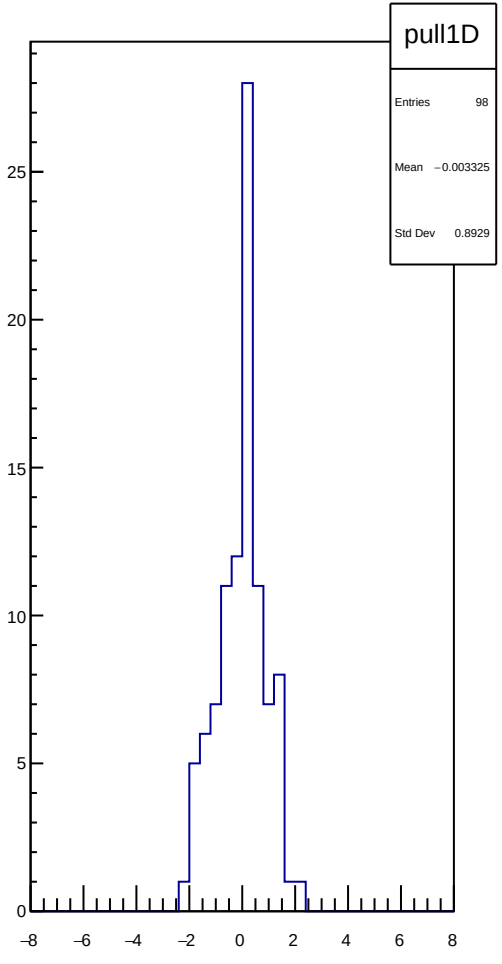

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 159.5 / 97
p0 1124 ± 0.8065
1180
1160
1140
1120
1100

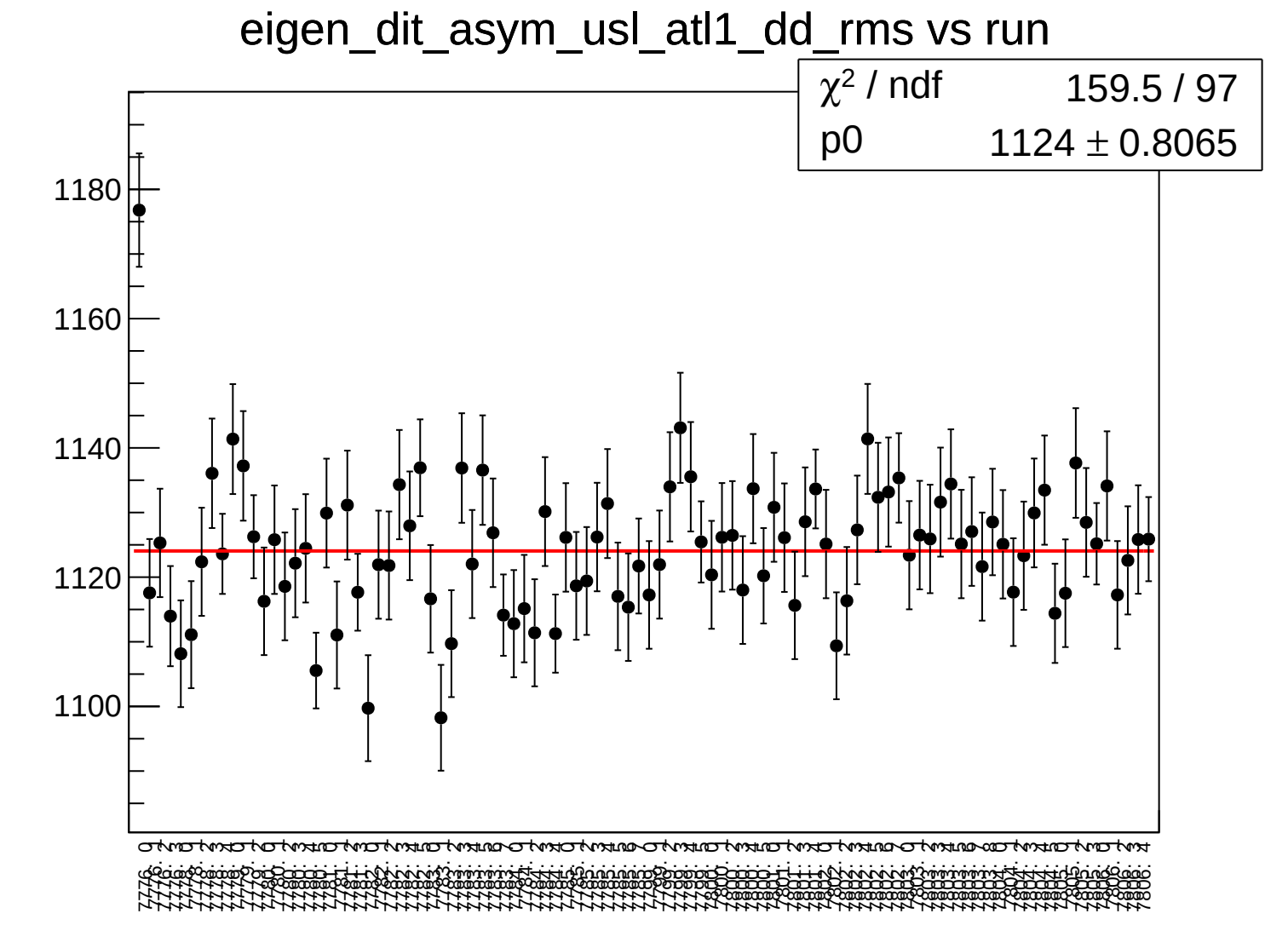

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 68.64 / 97
p0 205.1 ± 920.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −6.664
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

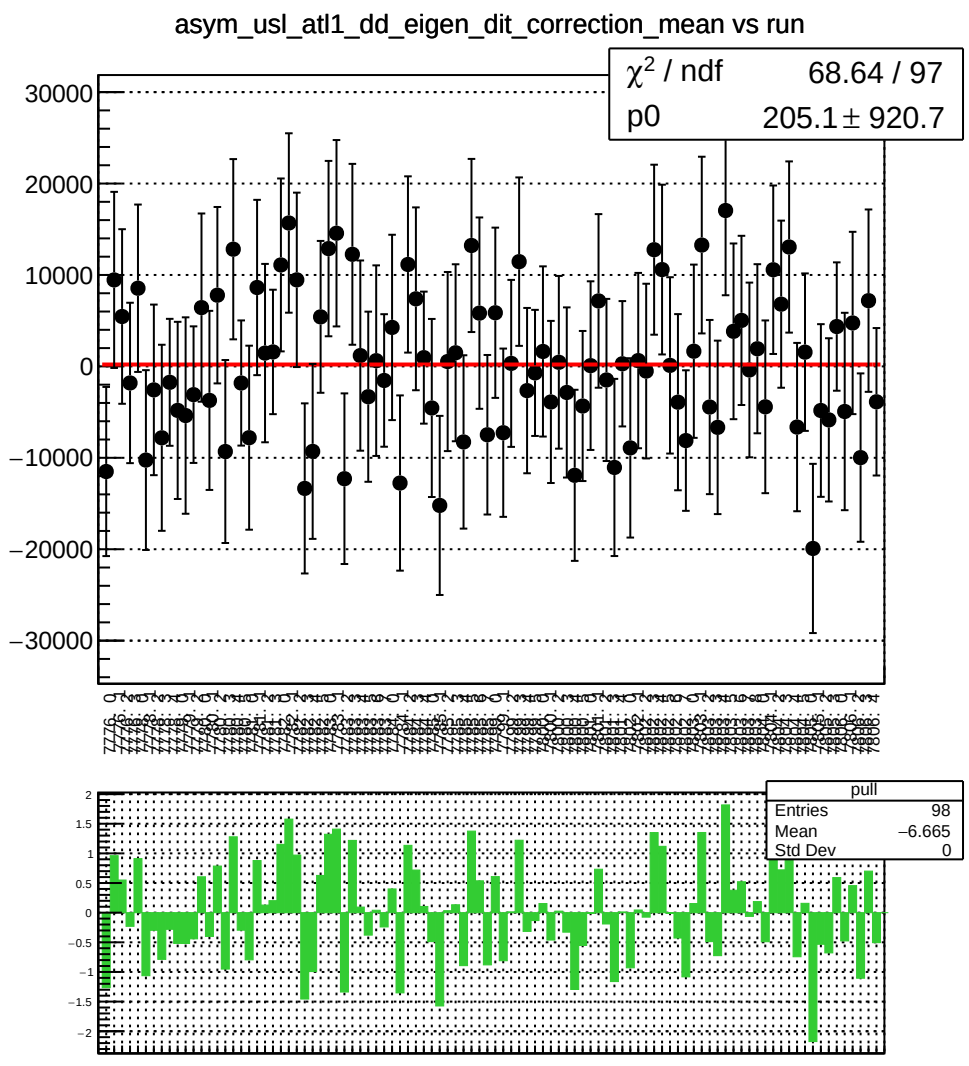

pull1D
Entries 98
Mean 0.007672
Std Dev 0.8369
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

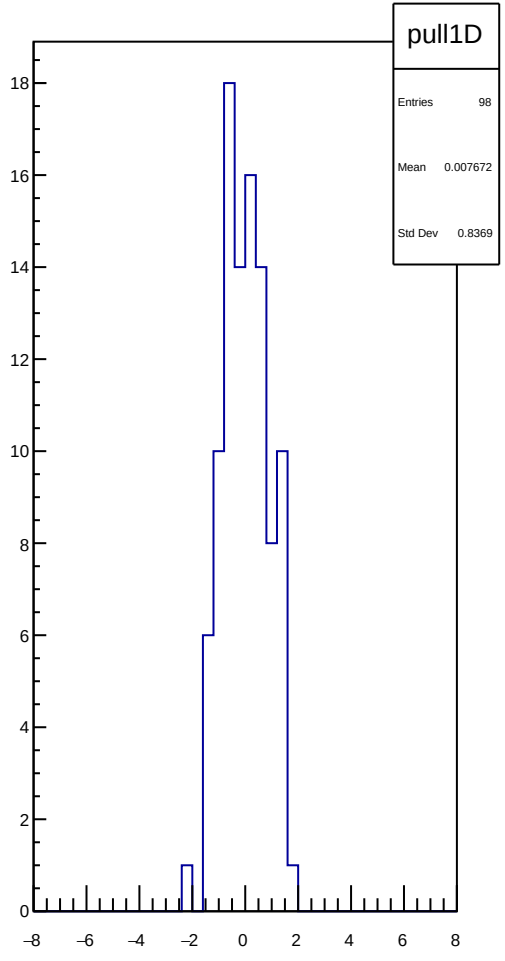

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 2707 / 97
p0 906.8 ± 0.651
1050
1000
950
900
850

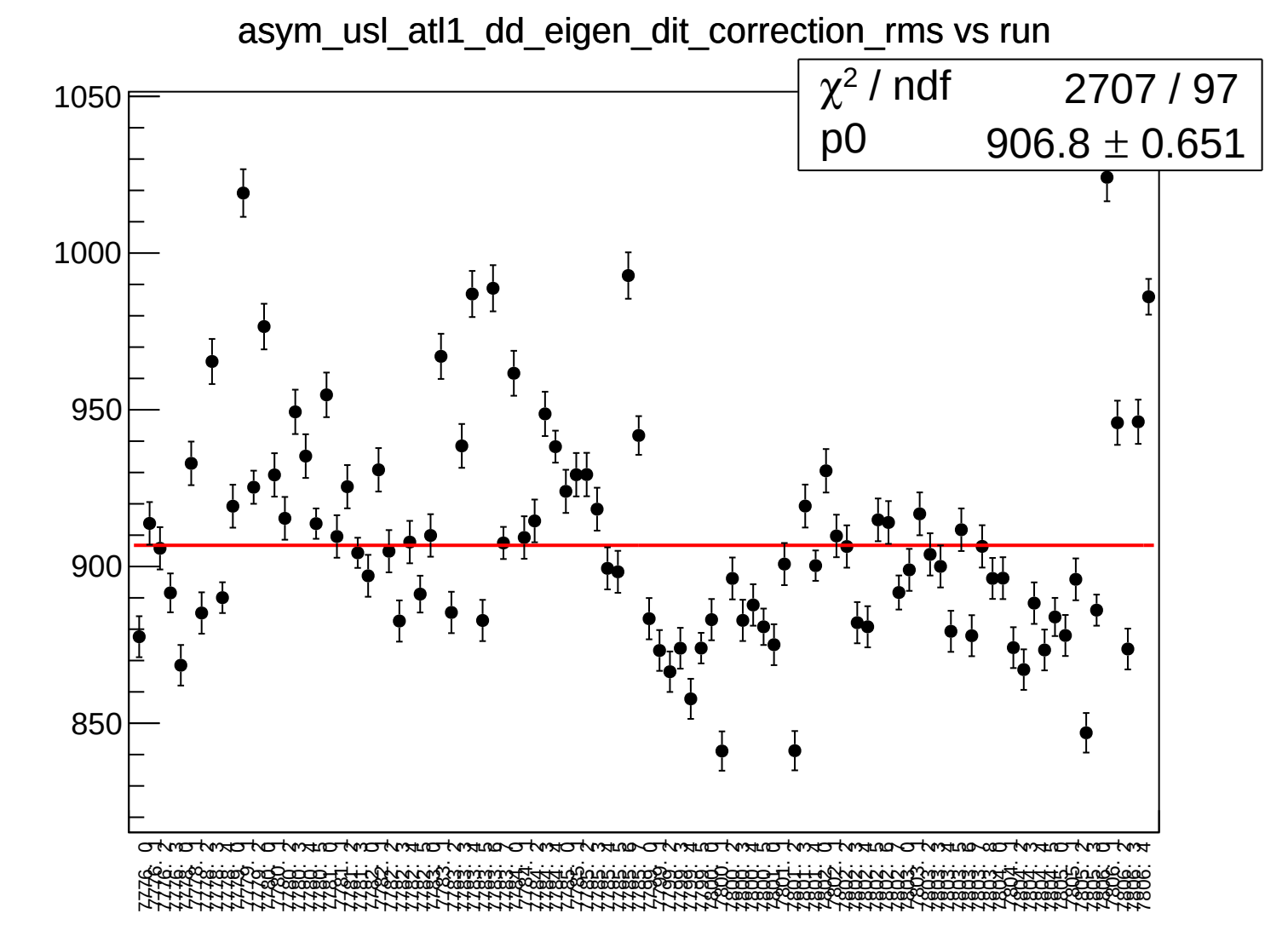

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 78.14 / 97
p0 485.7 ± 1141
pull
Entries 98
Mean 266.1
Std Dev 0

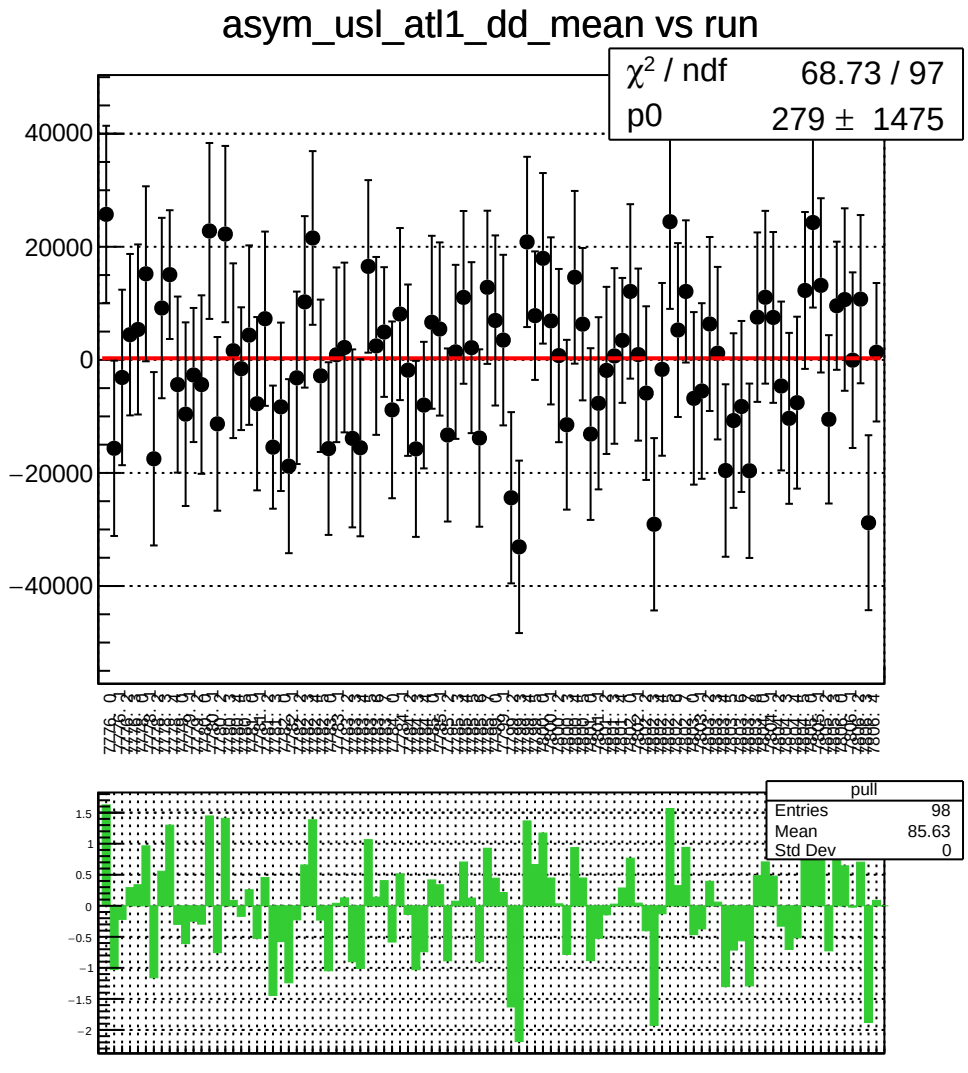

pull1D
Entries 98
Mean −0.003325
Std Dev 0.8929

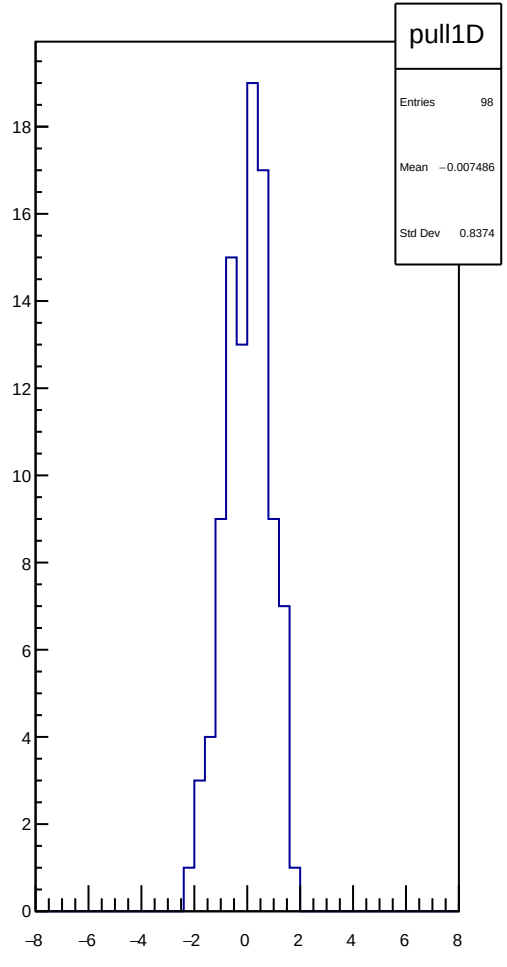

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 159.5 / 97
p0 1124 ± 0.8065
1180
1160
1140
1120
1100

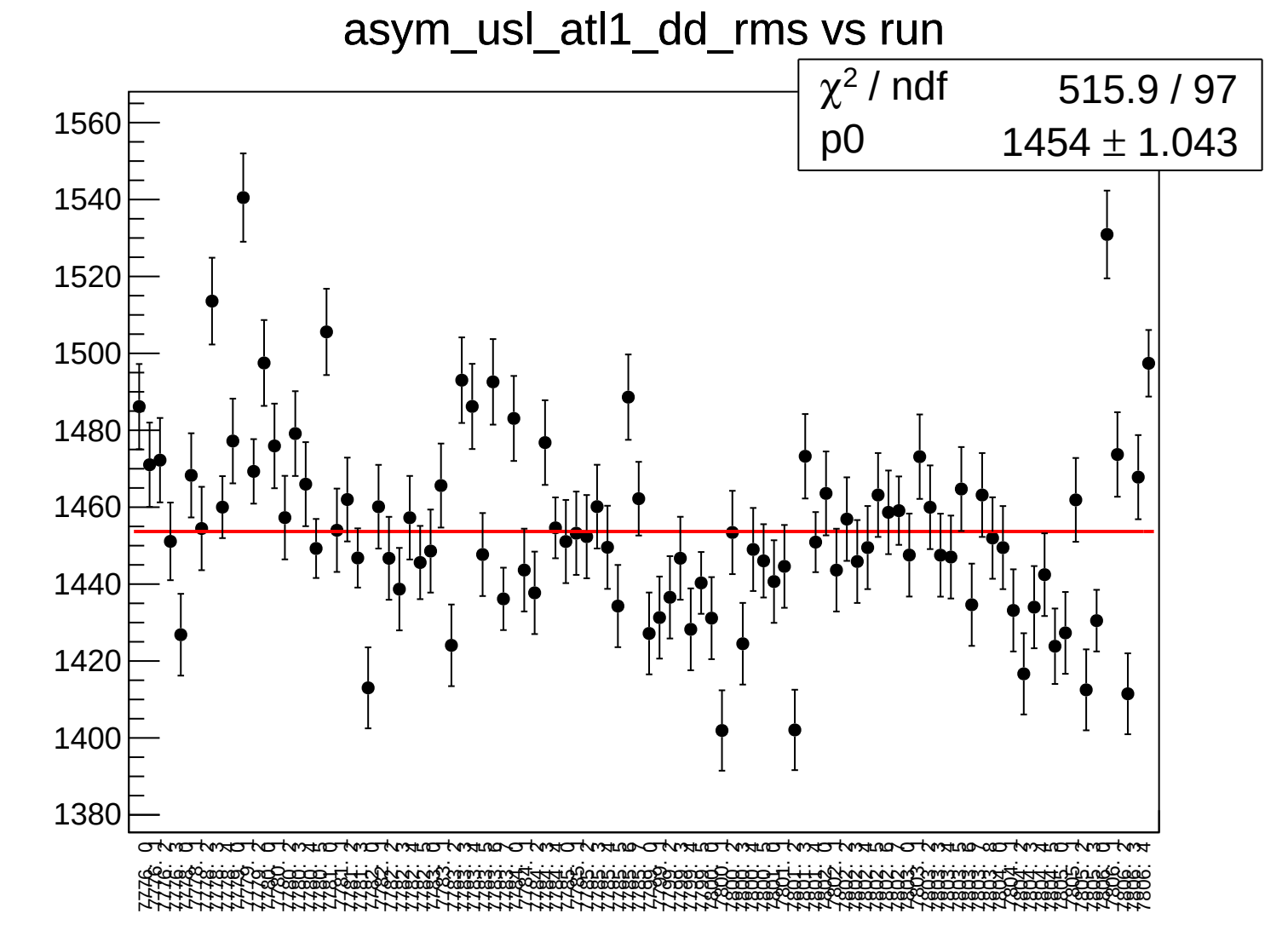

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.64 / 97
p0 205.1 ± 920.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −6.665
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

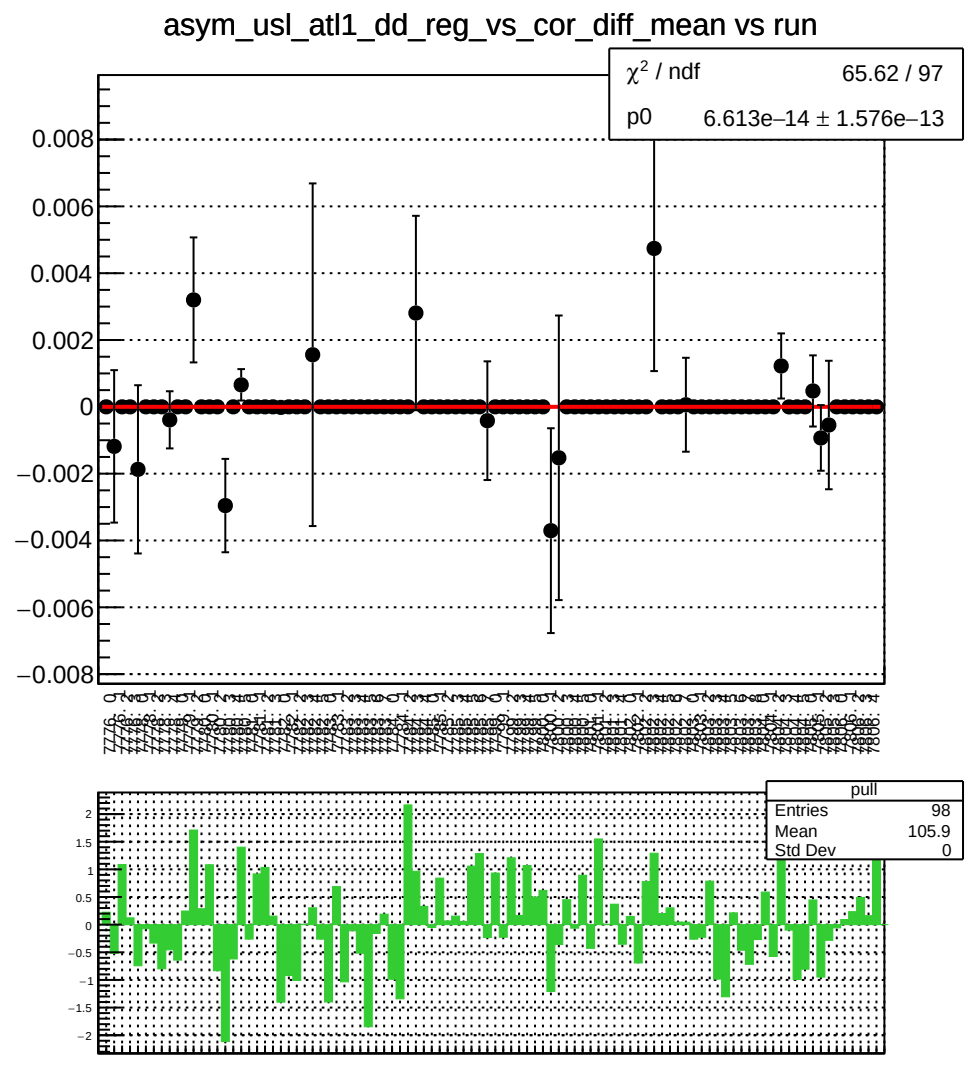

pull1D
Entries 98
Mean 0.007672
Std Dev 0.8369
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

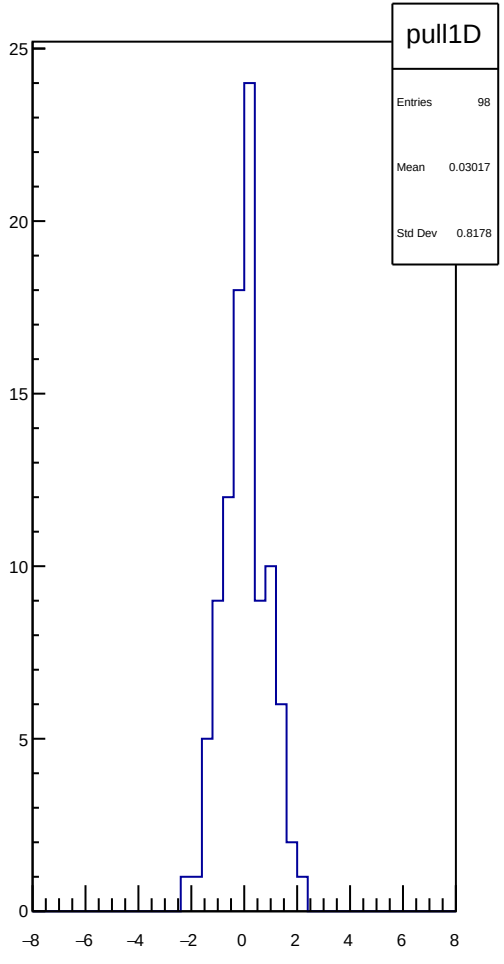

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2707 / 97
p0 906.8 ± 0.651
1050
1000
950
900
850

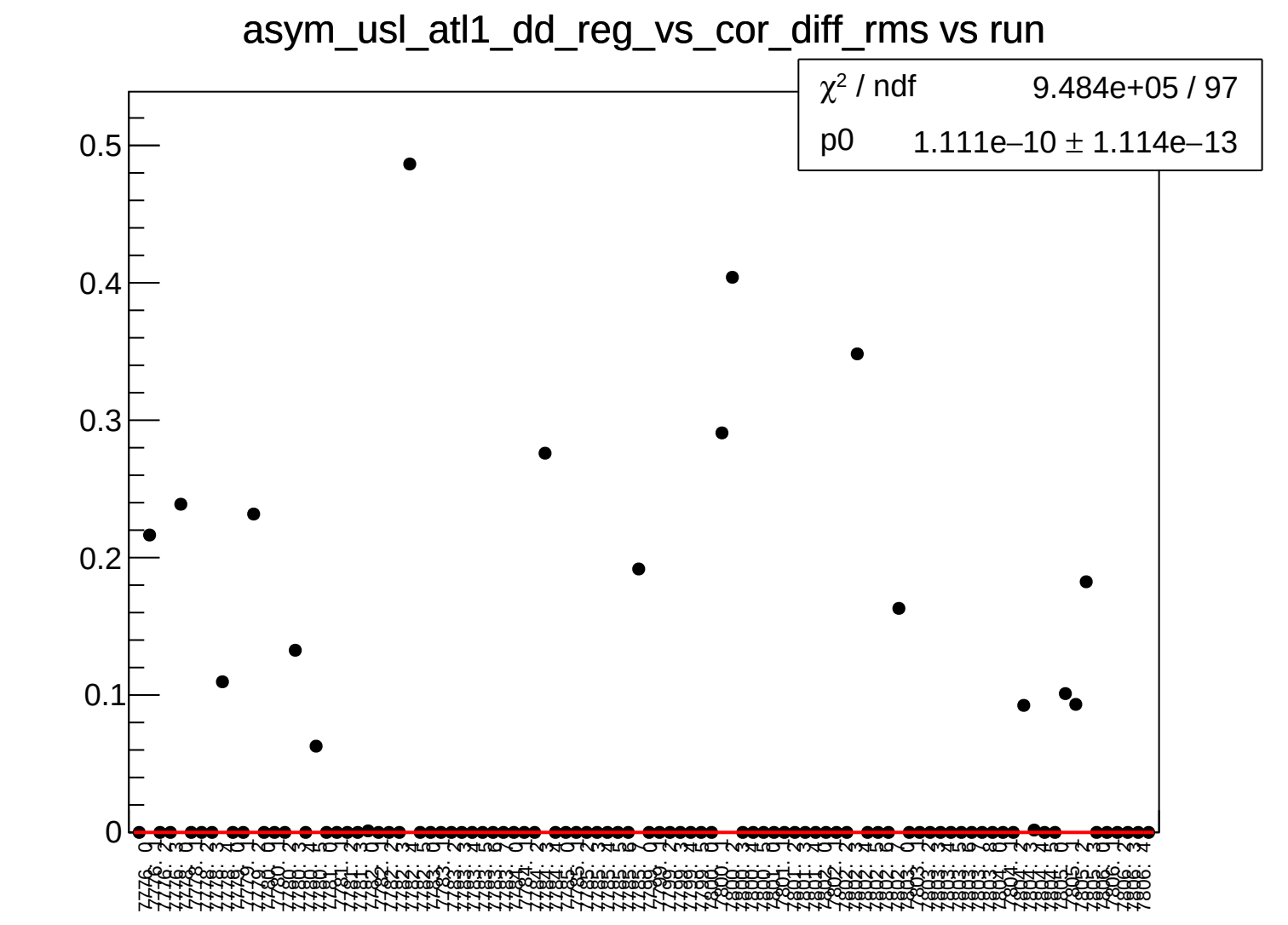

asym_usl_atl1_dd_mean vs run
χ² / ndf 68.73 / 97
p0 279 ± 1475
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 85.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

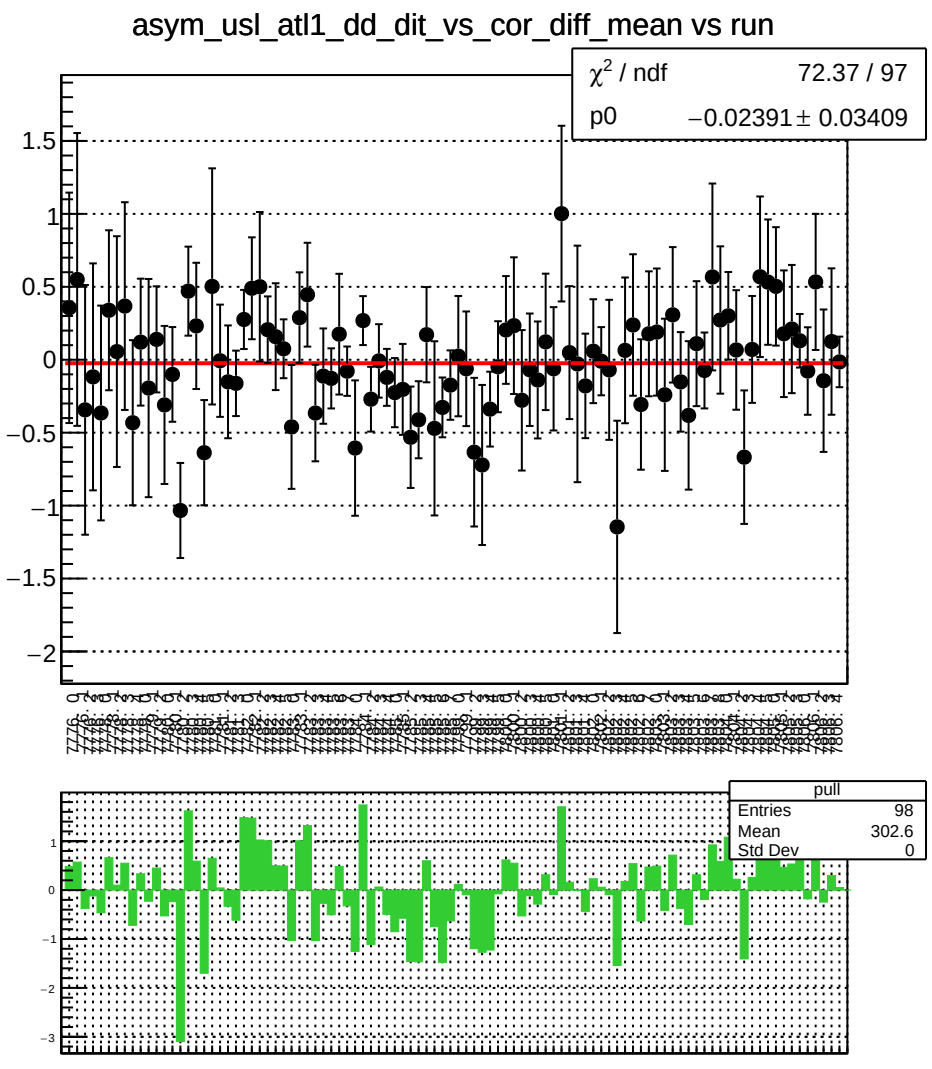

pull1D
Entries 98
Mean −0.007486
Std Dev 0.8374
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

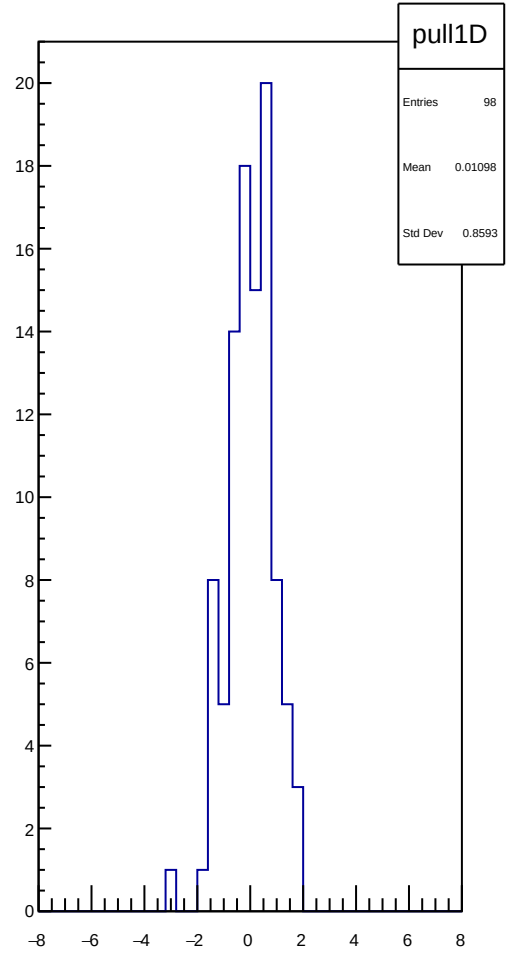

asym_usl_atl1_dd_rms vs run
χ² / ndf 515.9 / 97
p0 1454 ± 1.043
1560
1540
1520
1500
1480
1460
1440
1420
1400
1380

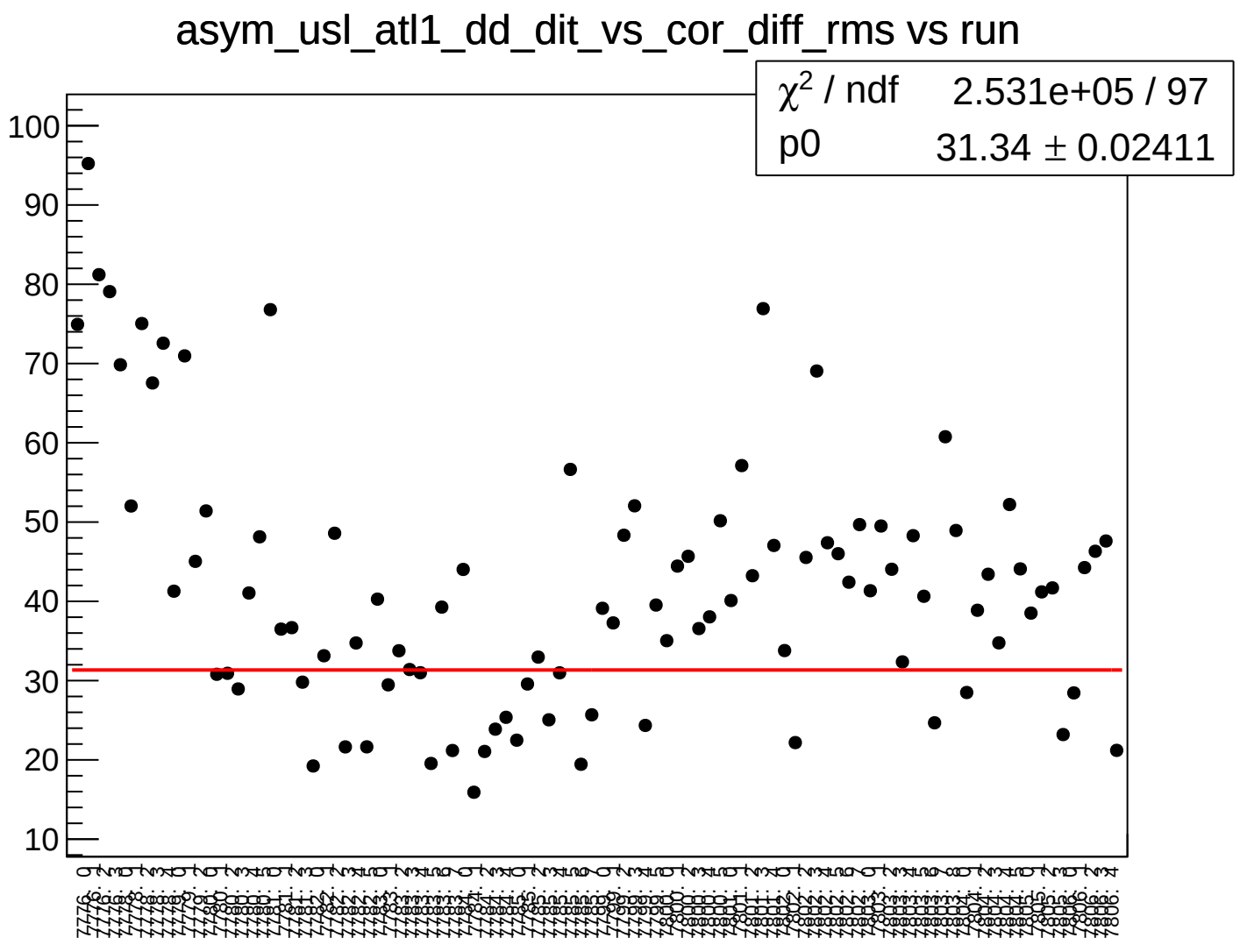

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 65.62 / 97
p0 6.613e−14 ± 1.576e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 98
Mean 105.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

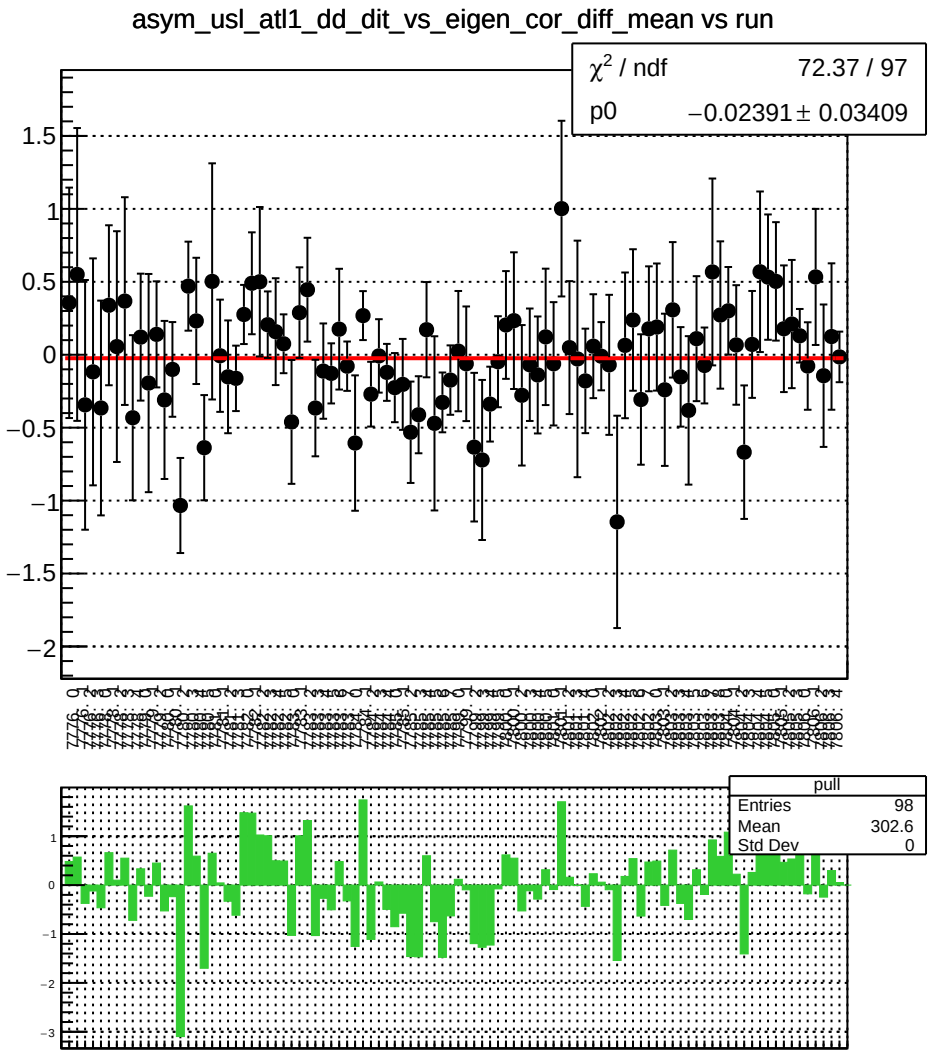

pull1D
Entries 98
Mean 0.03017
Std Dev 0.8178
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

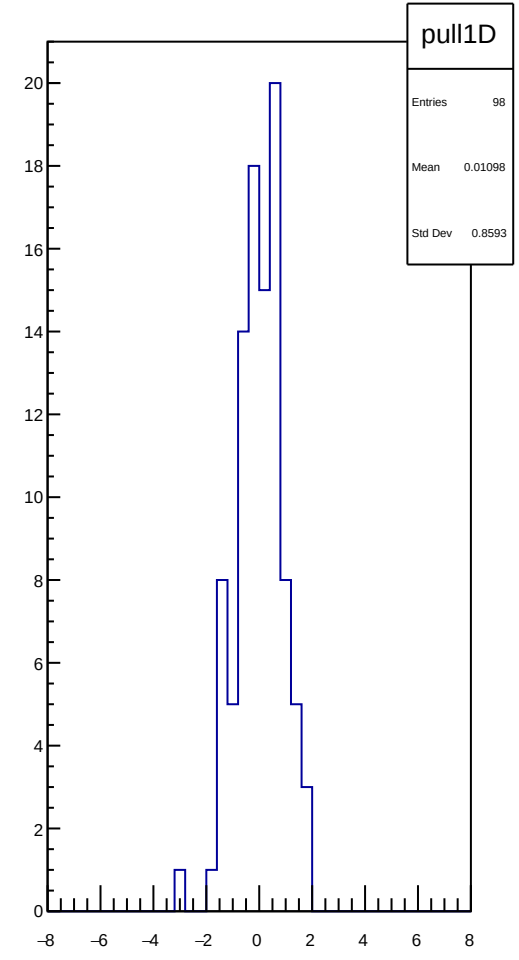

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.484e+05 / 97
p0 1.111e−10 ± 1.114e−13
0.5
0.4
0.3
0.2
0.1
0

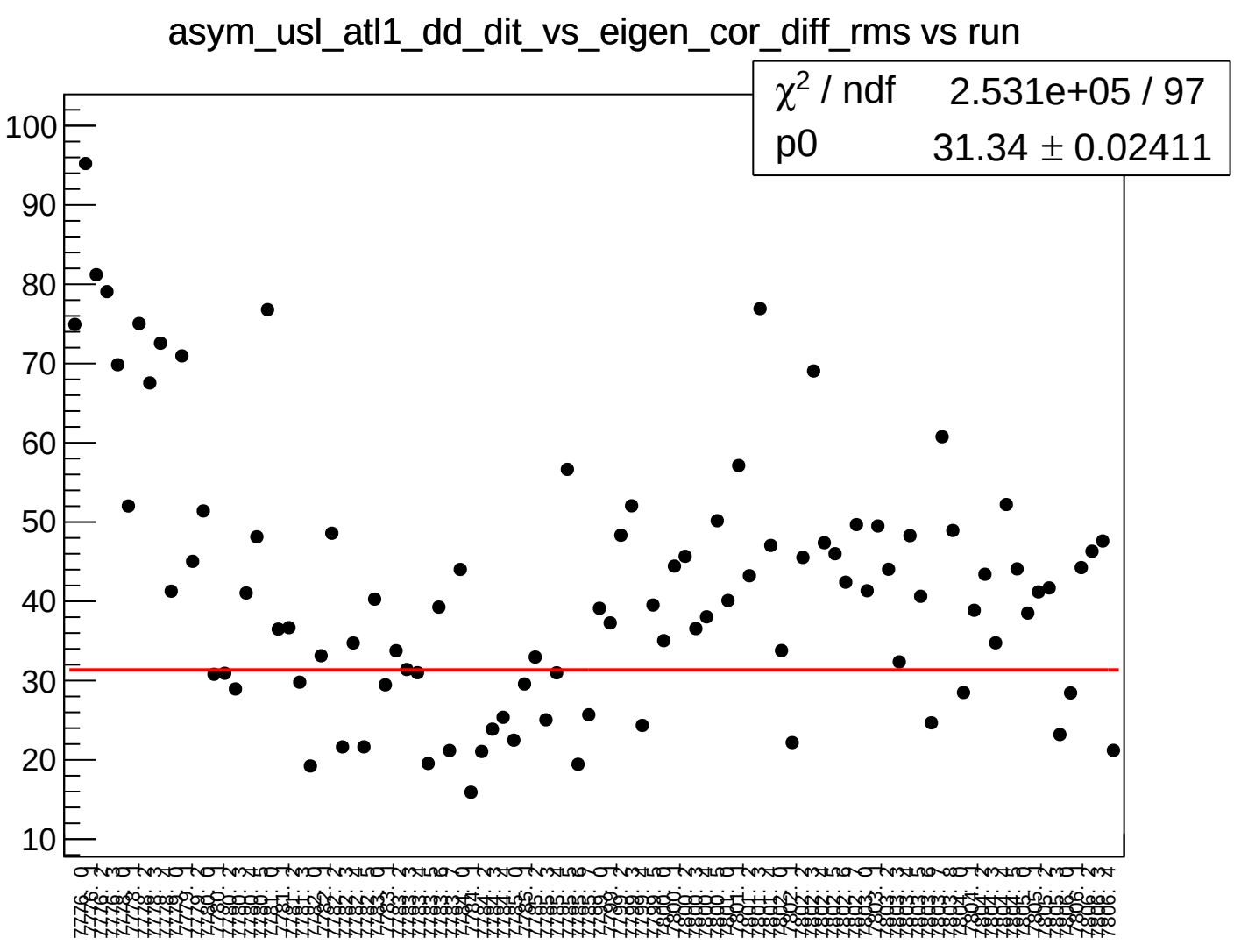

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.37 / 97
p0 −0.02391 ± 0.03409
pull
Entries 98
Mean 302.6
Std Dev 0

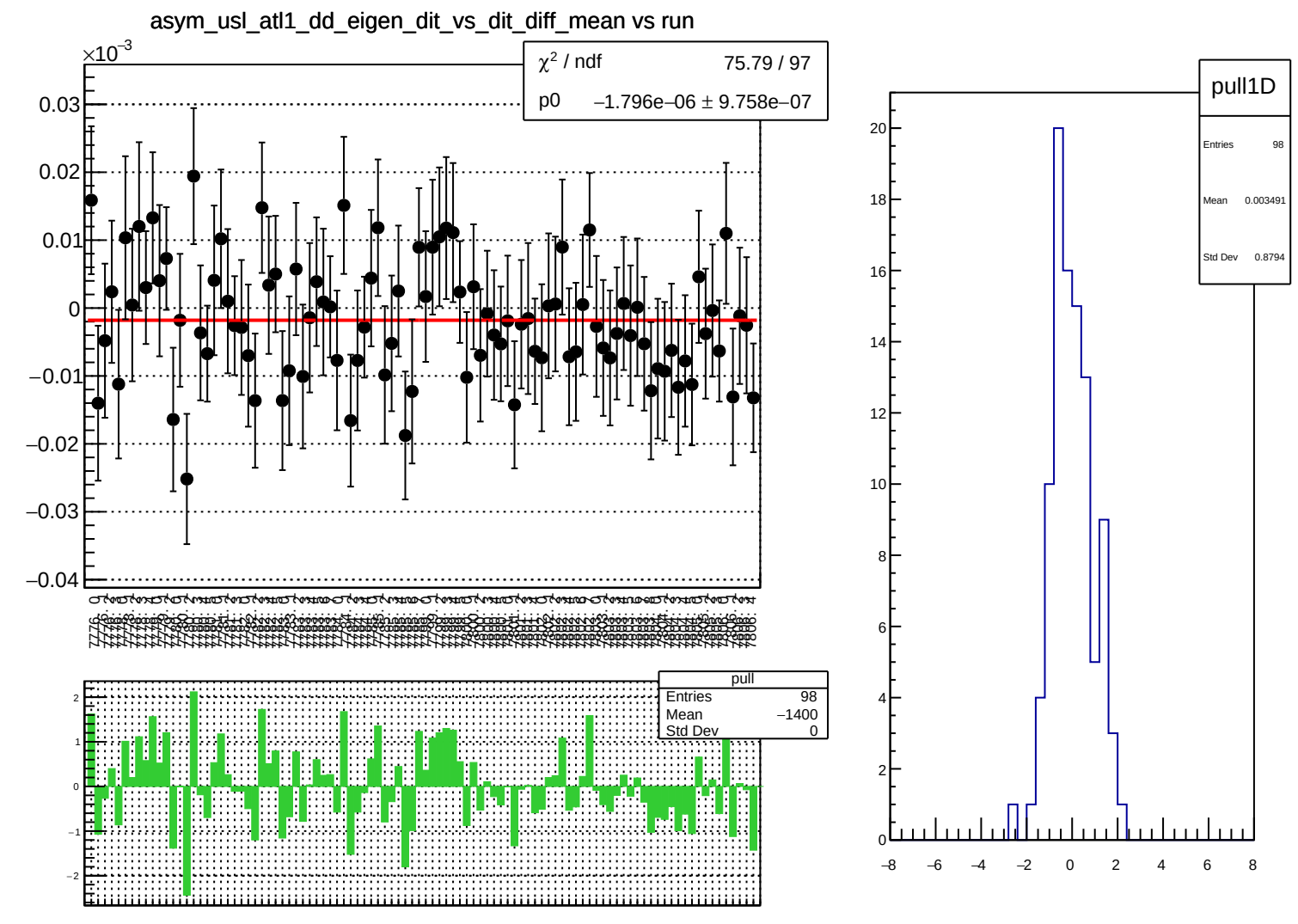

pull1D
Entries 98
Mean 0.01098
Std Dev 0.8593

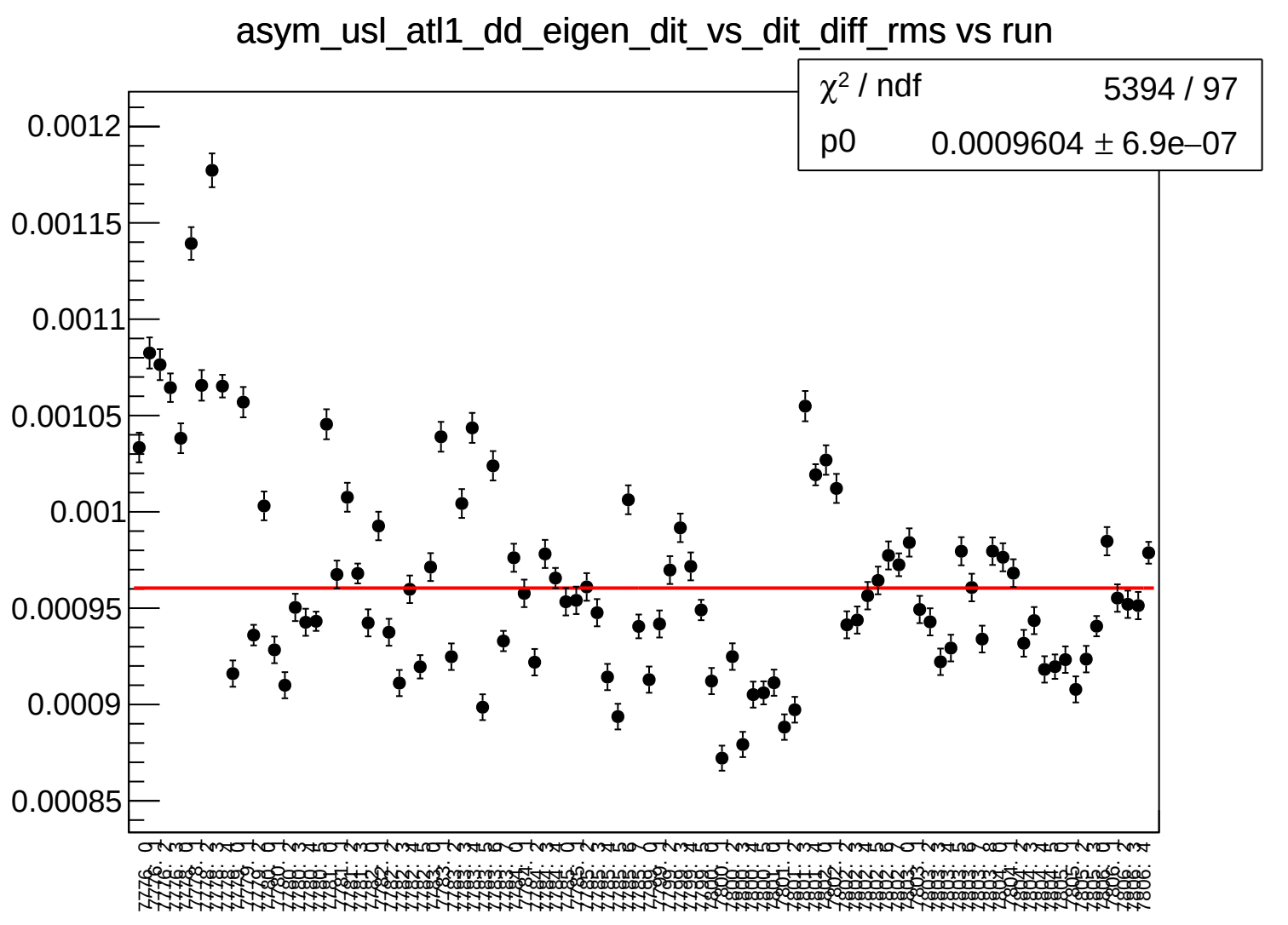

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.531e+05 / 97
p0 31.34 ± 0.02411
100
90
80
70
60
50
40
30
20
10

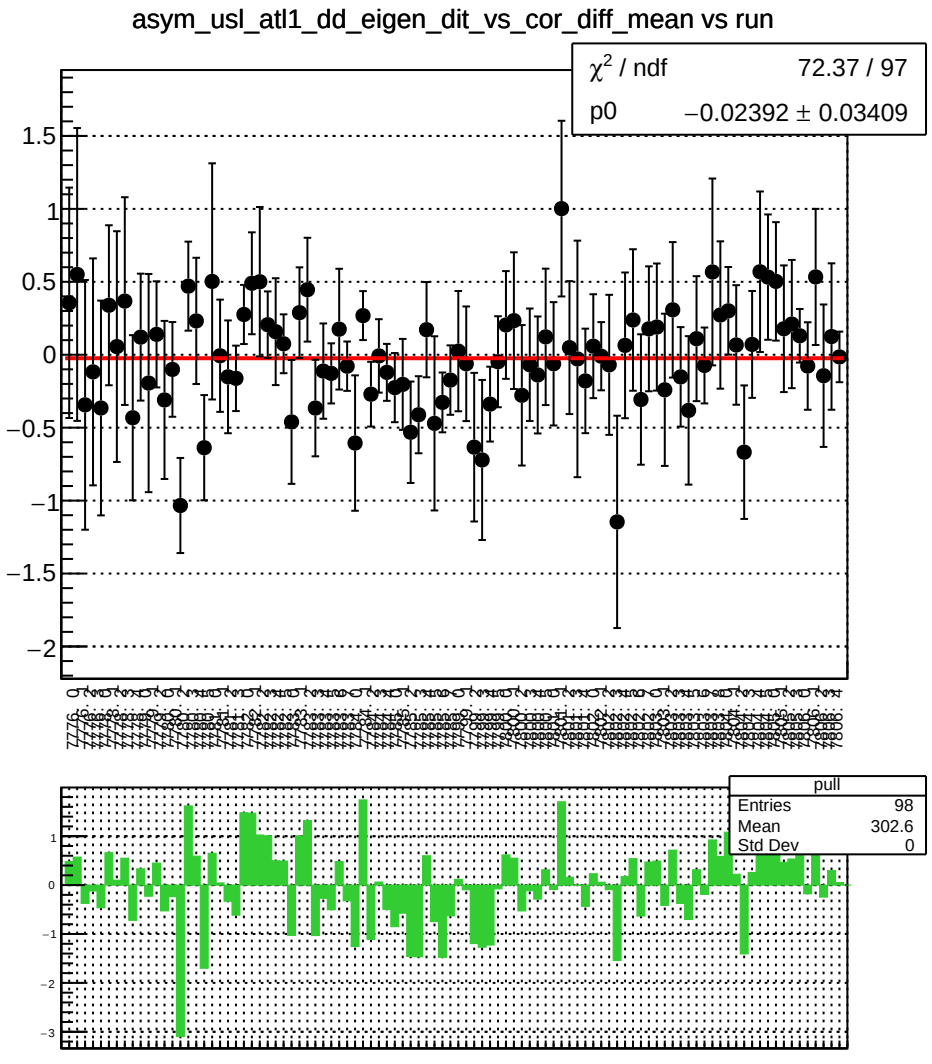

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.37 / 97
p0 −0.02391 ± 0.03409
pull
Entries 98
Mean 302.6
Std Dev 0

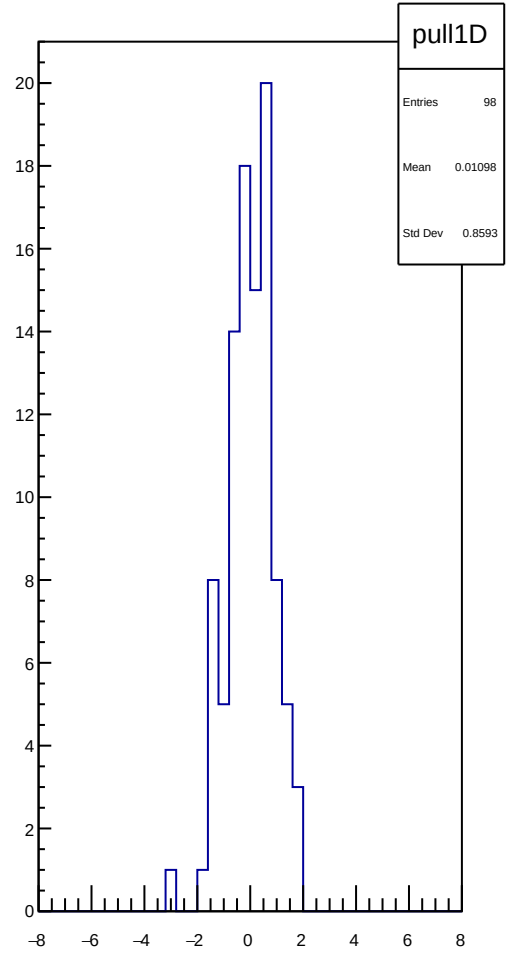

pull1D
Entries 98
Mean 0.01098
Std Dev 0.8593

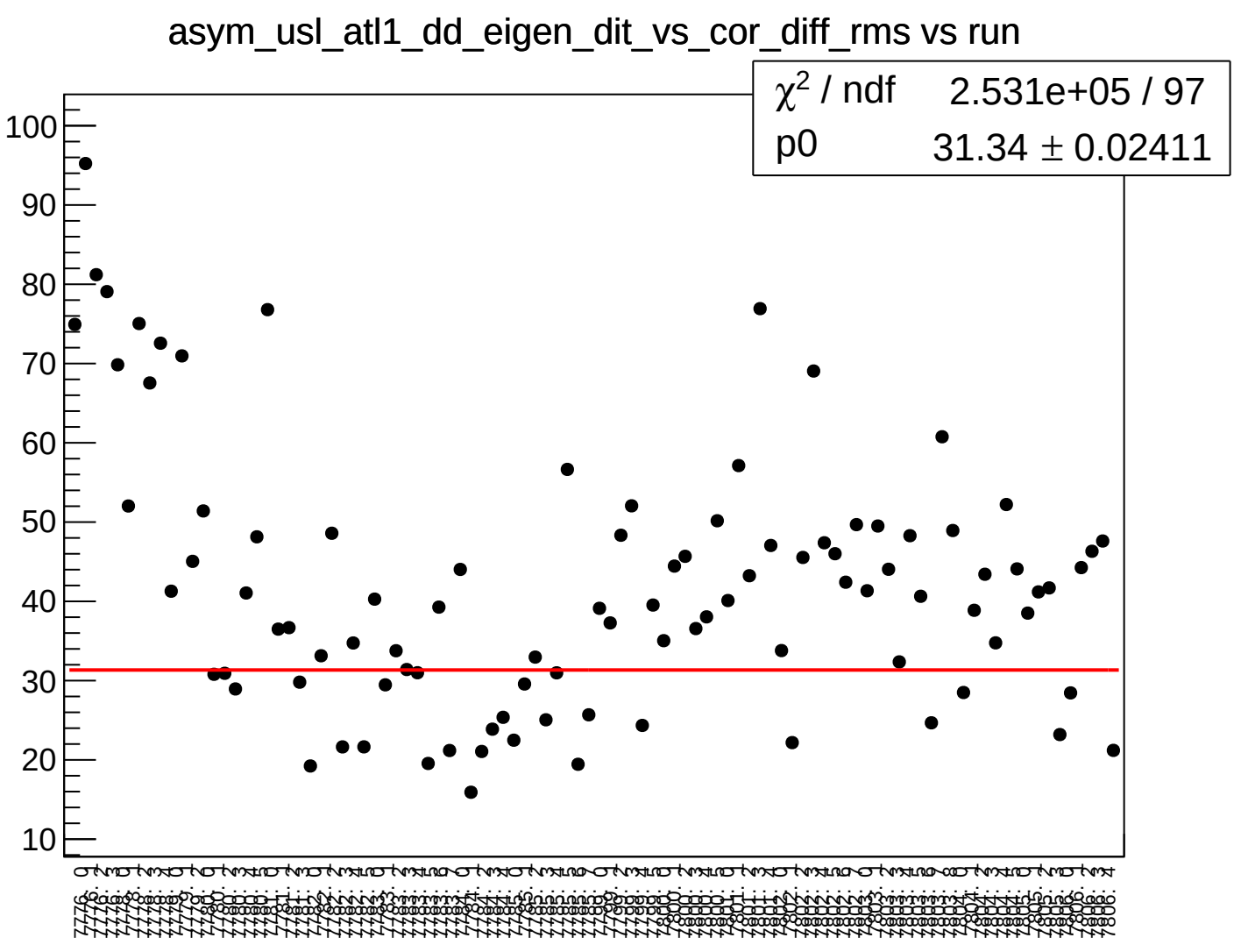

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.531e+05 / 97
p0 31.34 ± 0.02411
100
90
80
70
60
50
40
30
20
10

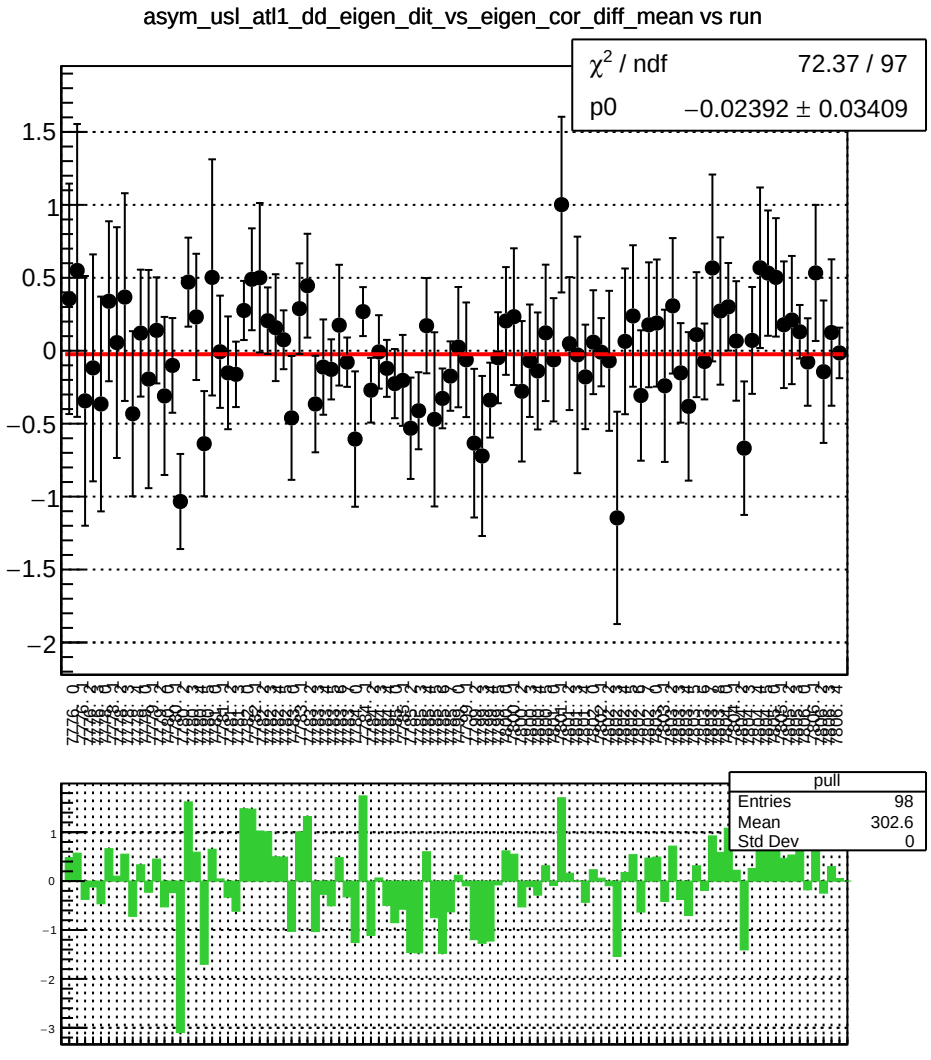

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 75.79 / 97
p0 −1.796e−06 ± 9.758e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 98
Mean −1400
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.003491
Std Dev 0.8794
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

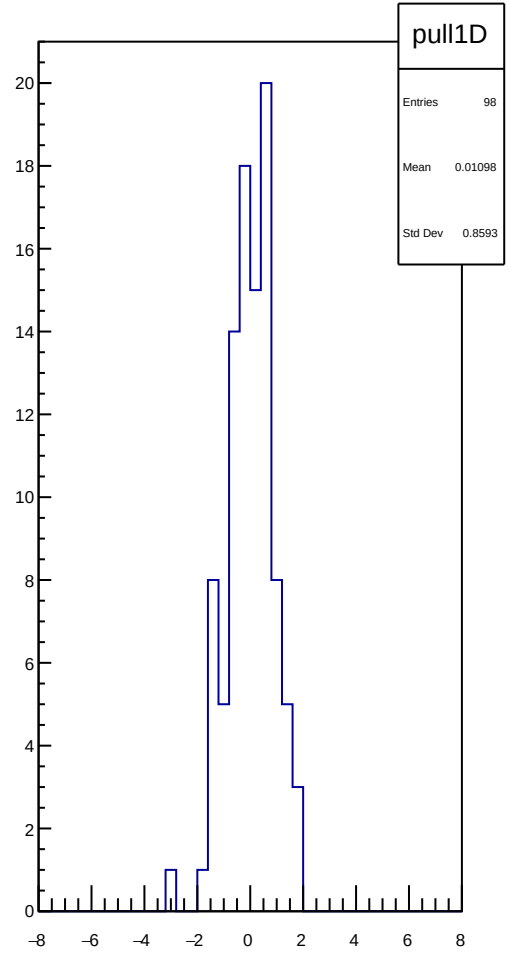

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5394 / 97
p0 0.0009604 ± 6.9e–07
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
0.00085

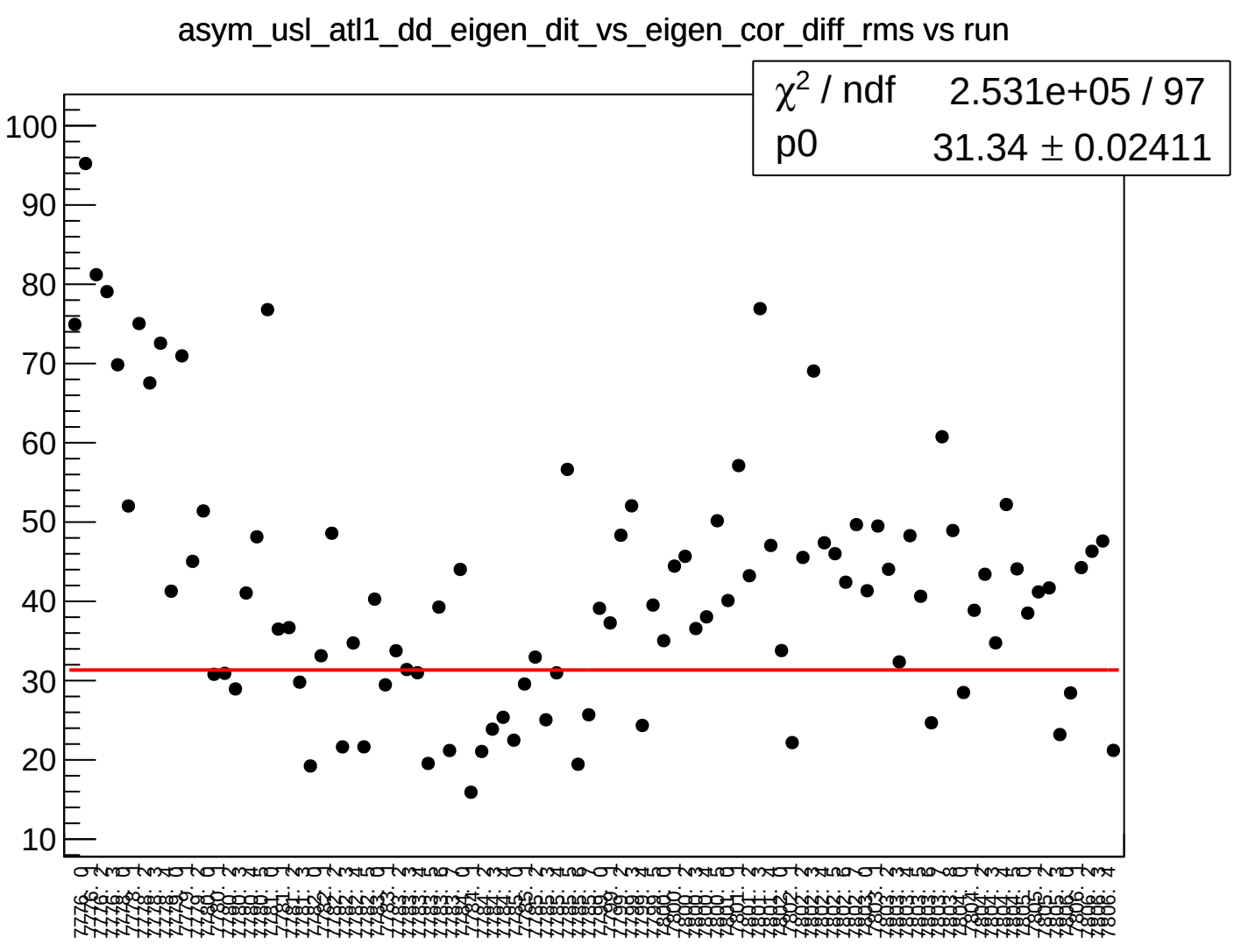

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.37 / 97
p0 −0.02392 ± 0.03409
pull
Entries 98
Mean 302.6
Std Dev 0

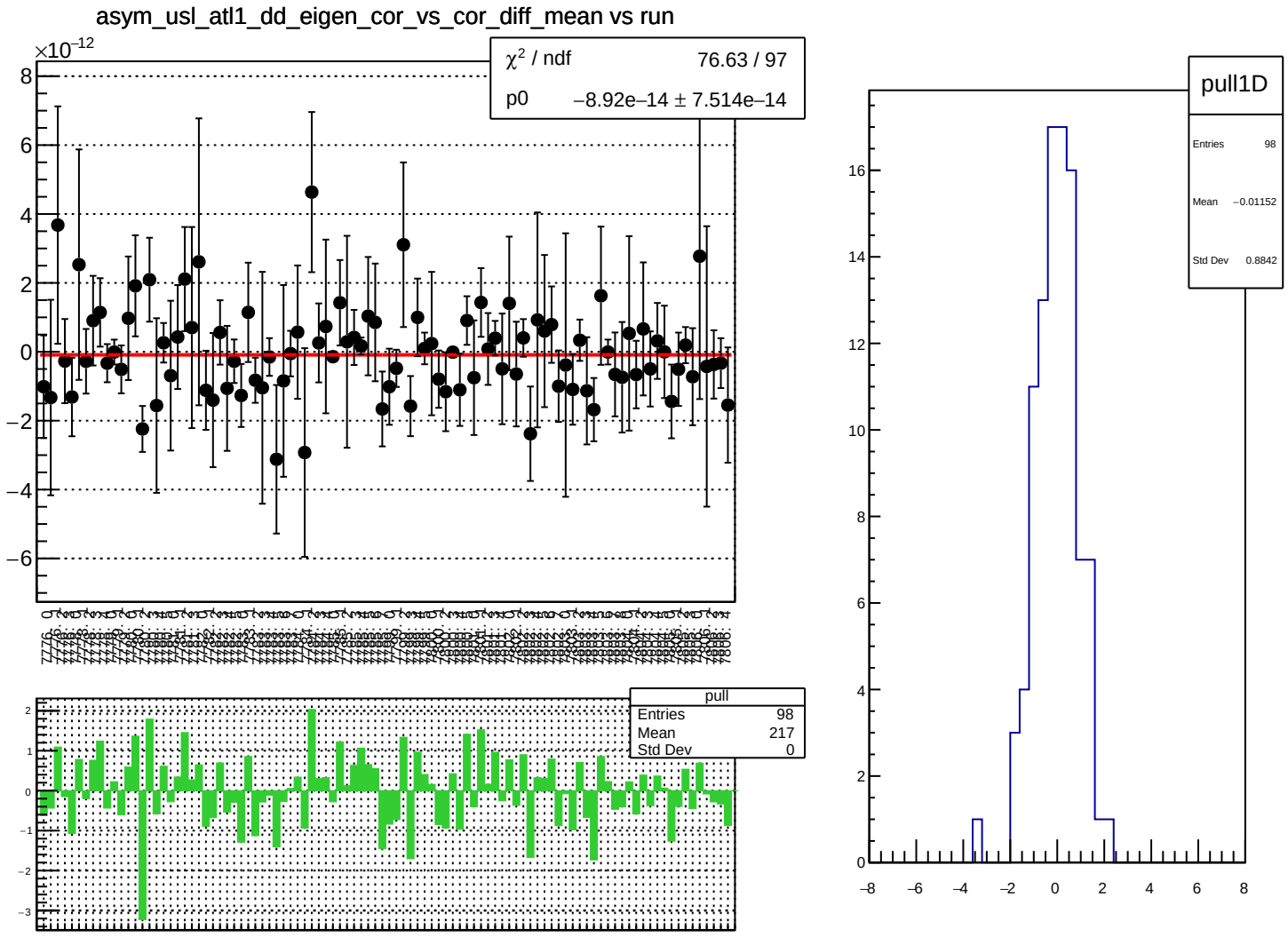

pull1D
Entries 98
Mean 0.01098
Std Dev 0.8593

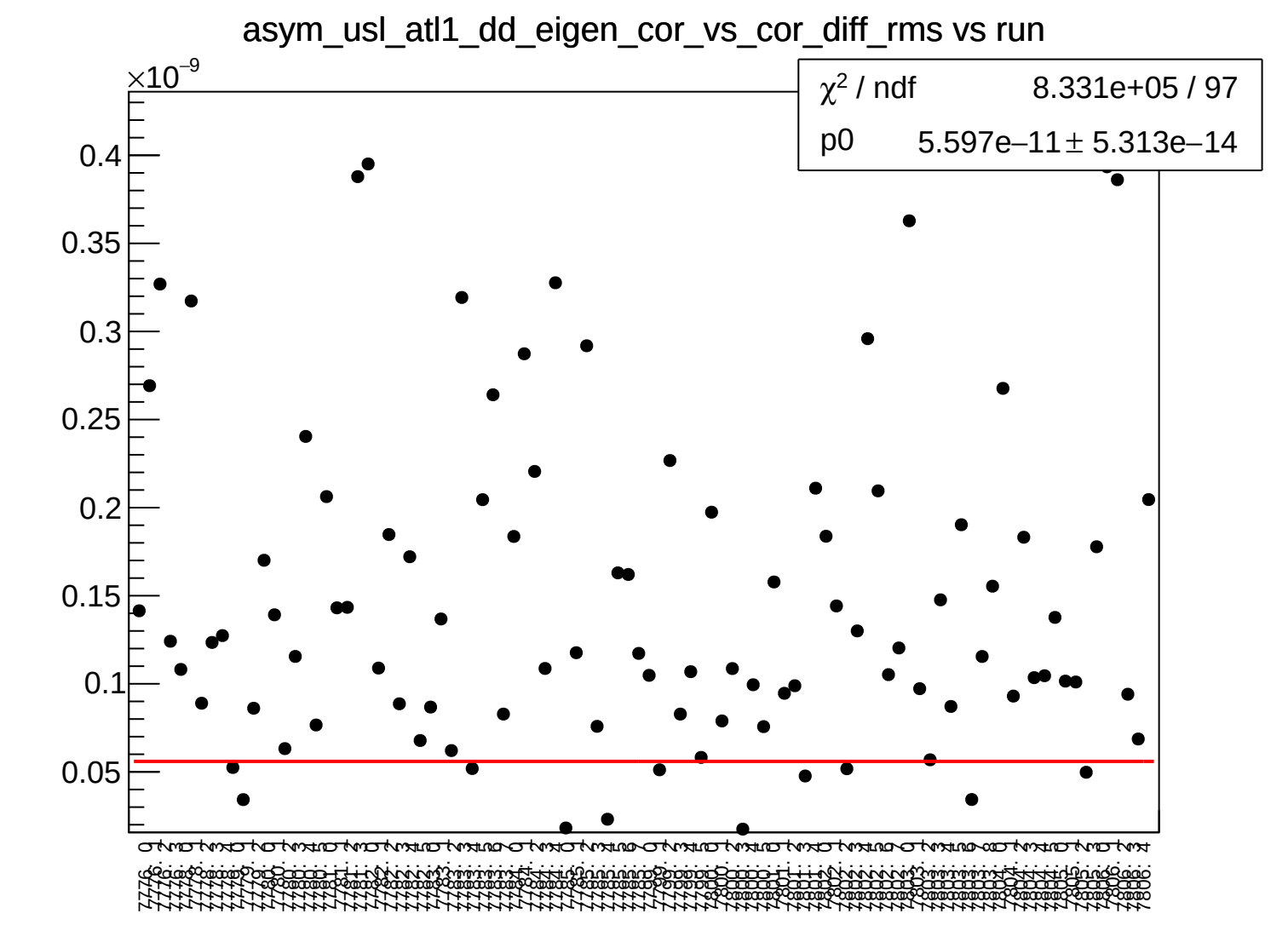

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.531e+05 / 97
p0 31.34 ± 0.02411
100
90
80
70
60
50
40
30
20
10

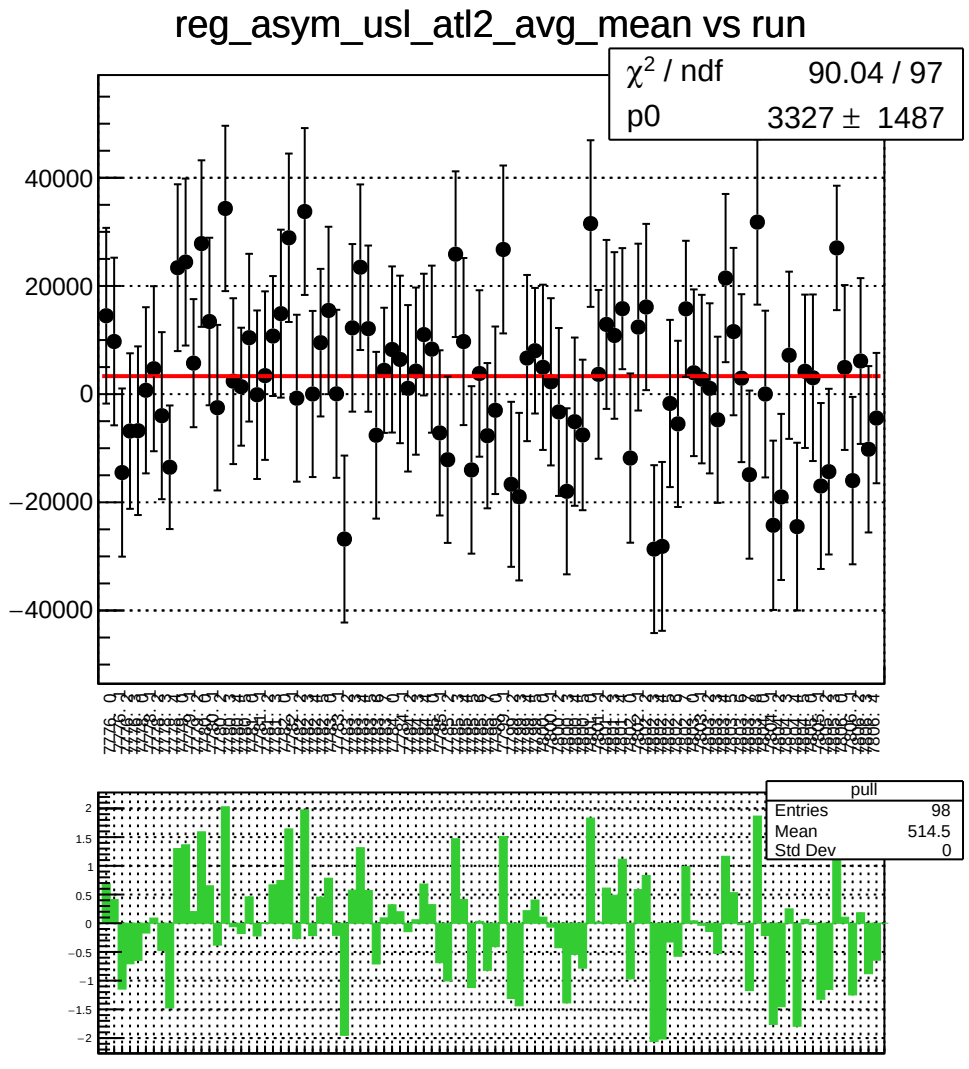

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.37 / 97
p0 −0.02392 ± 0.03409
pull
Entries 98
Mean 302.6
Std Dev 0

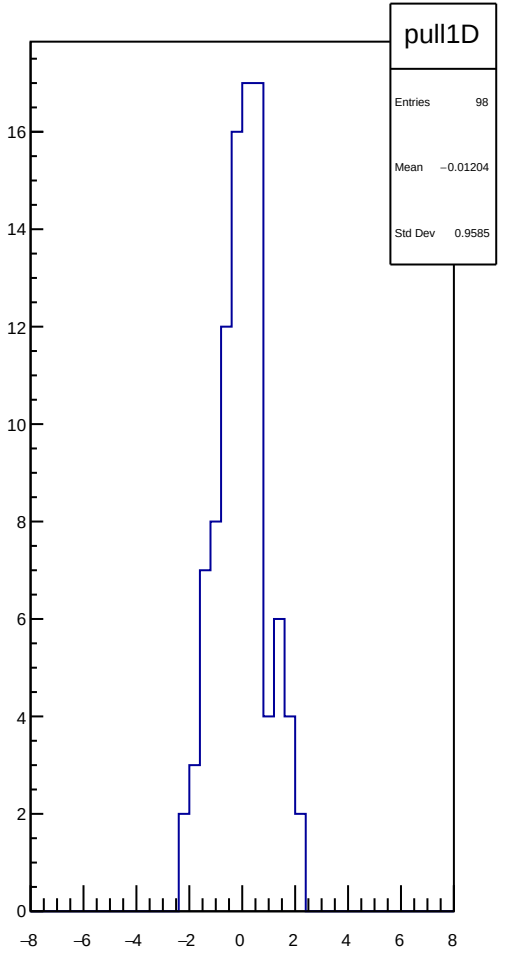

pull1D
Entries 98
Mean 0.01098
Std Dev 0.8593

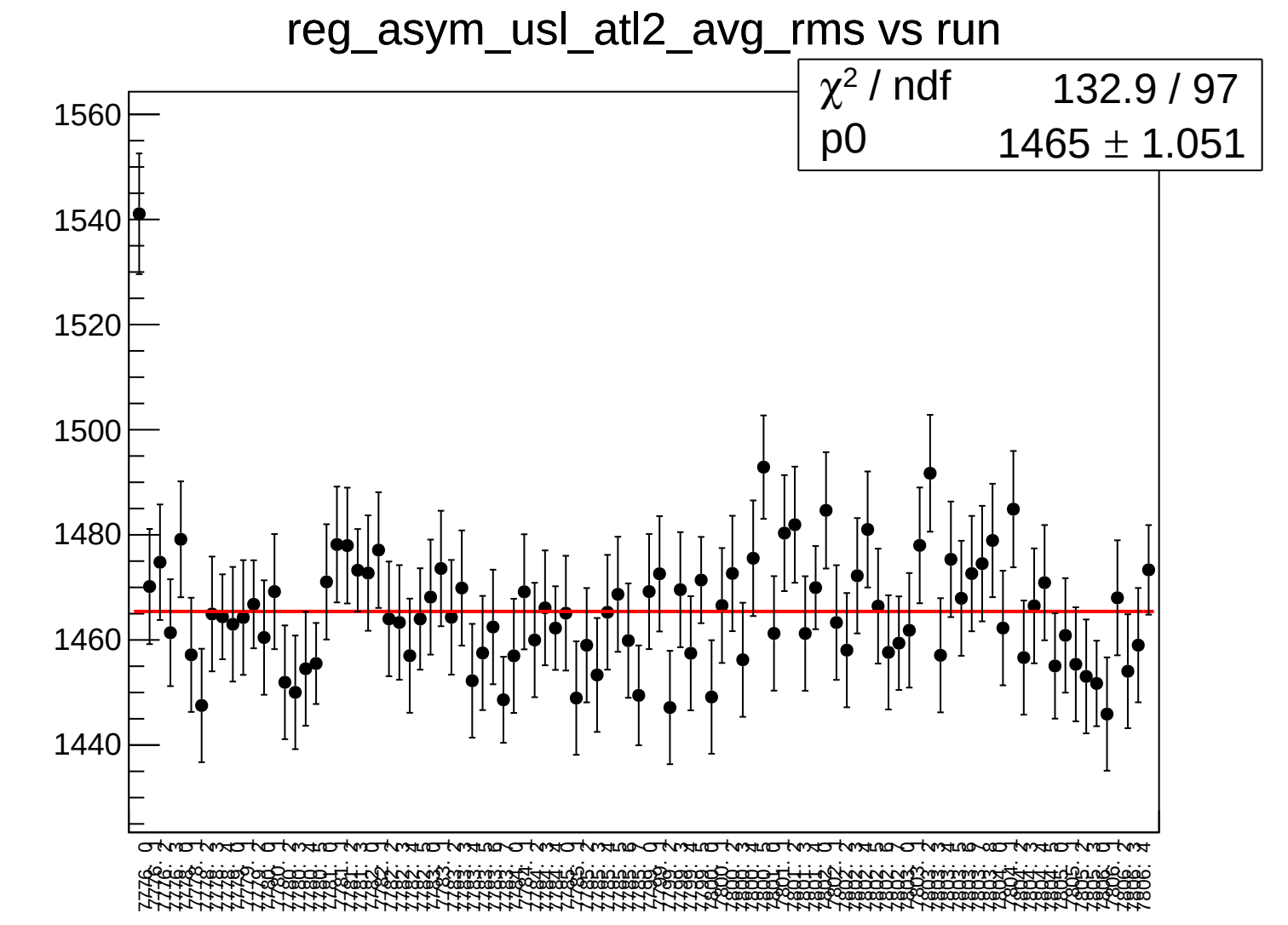

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.531e+05 / 97
p0 31.34 ± 0.02411
100
90
80
70
60
50
40
30
20
10

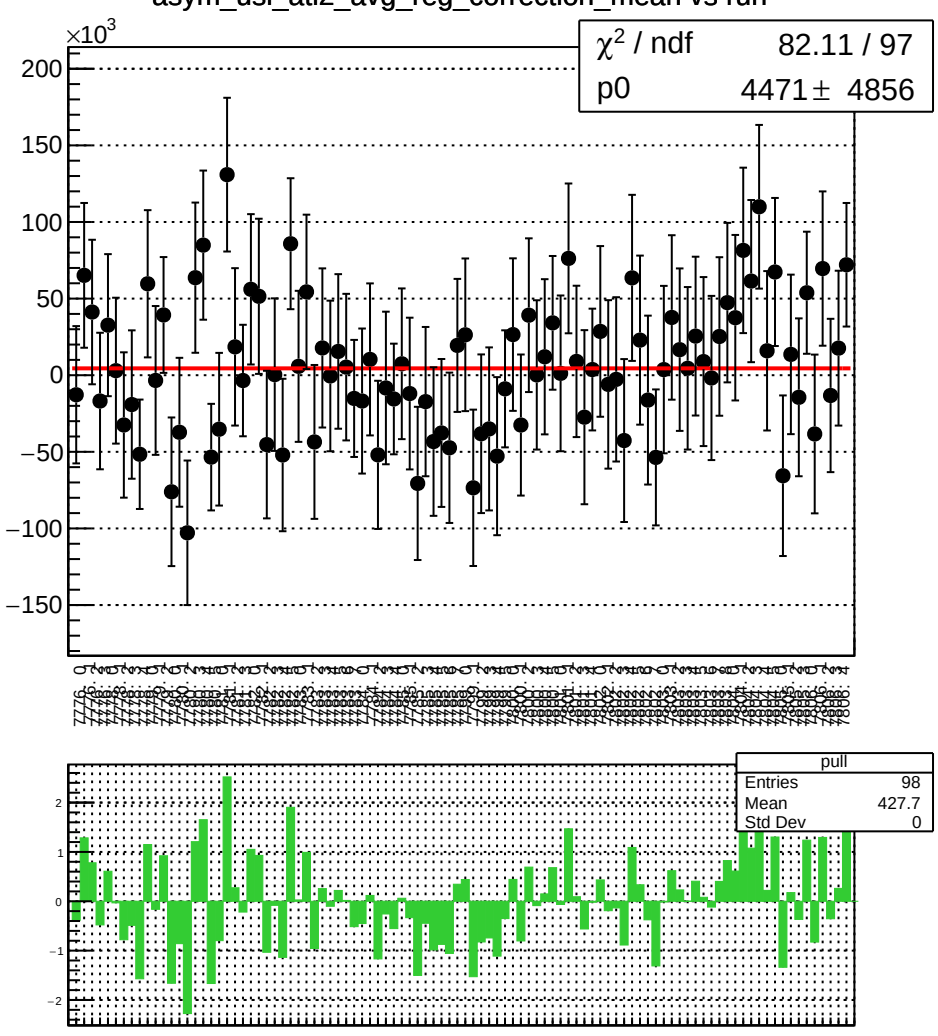

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.63 / 97
p0 −8.92e−14 ± 7.514e−14
pull
Entries 98
Mean 217
Std Dev 0
pull1D
Entries 98
Mean −0.01152
Std Dev 0.8842

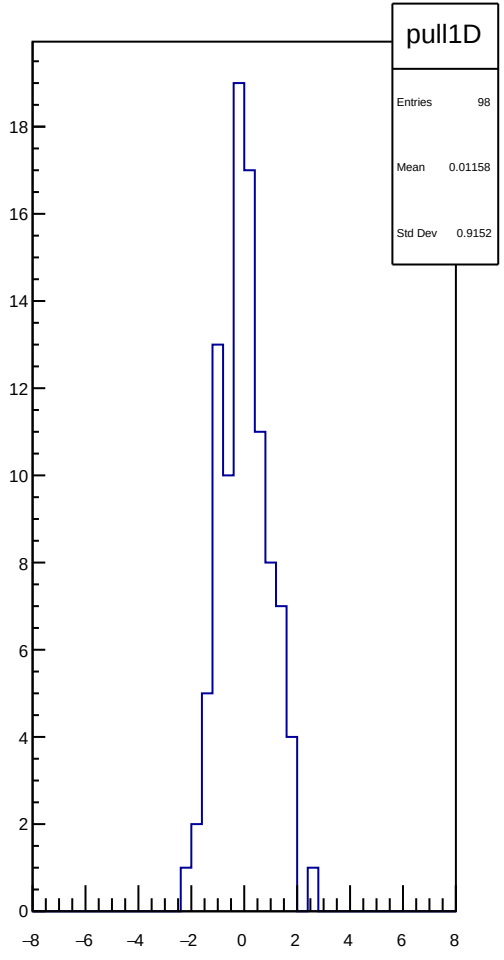

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.331e+05 / 97
p0 5.597e−11 ± 5.313e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

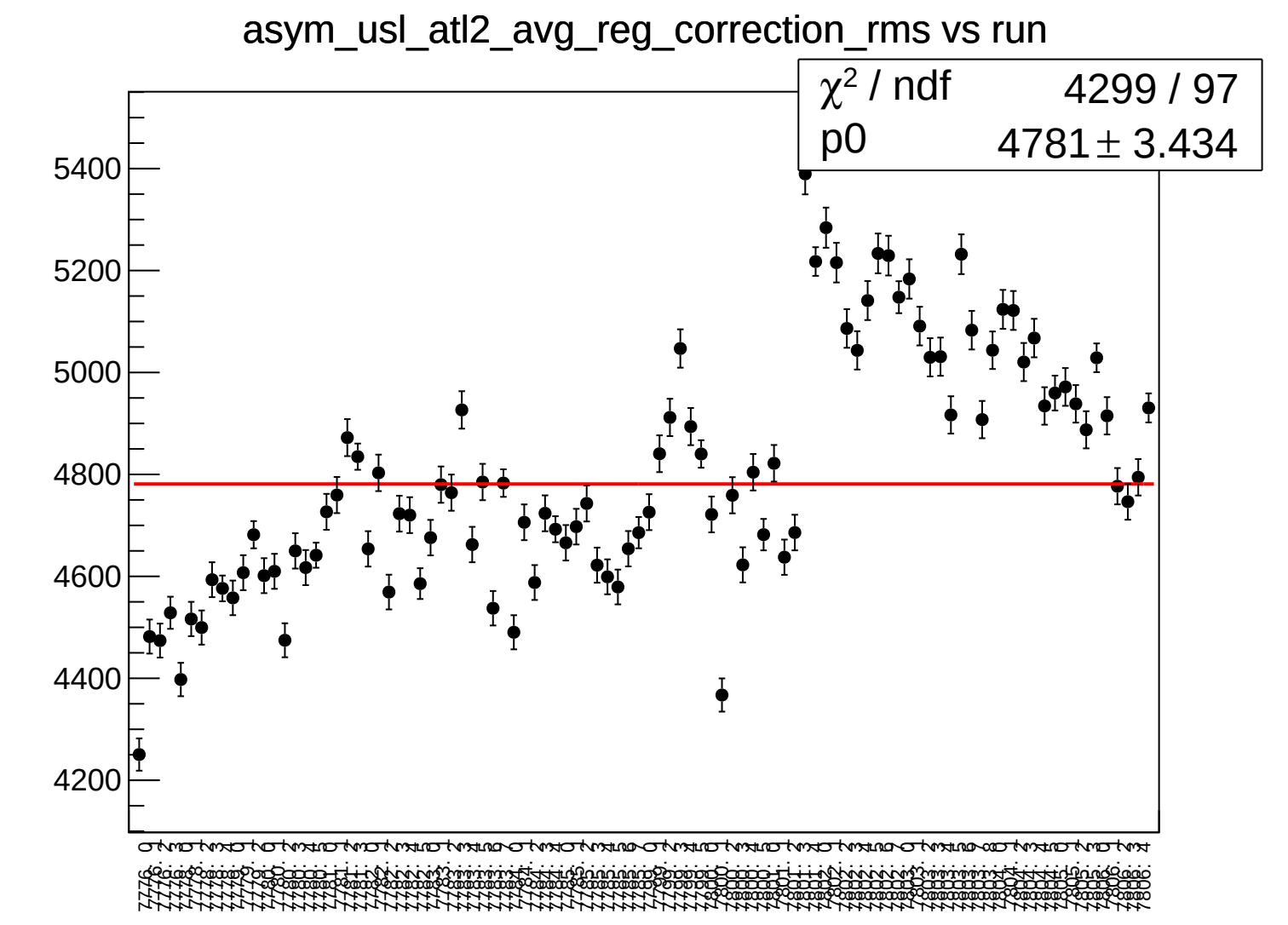

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.04 / 97
p0 3327 ± 1487
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 514.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

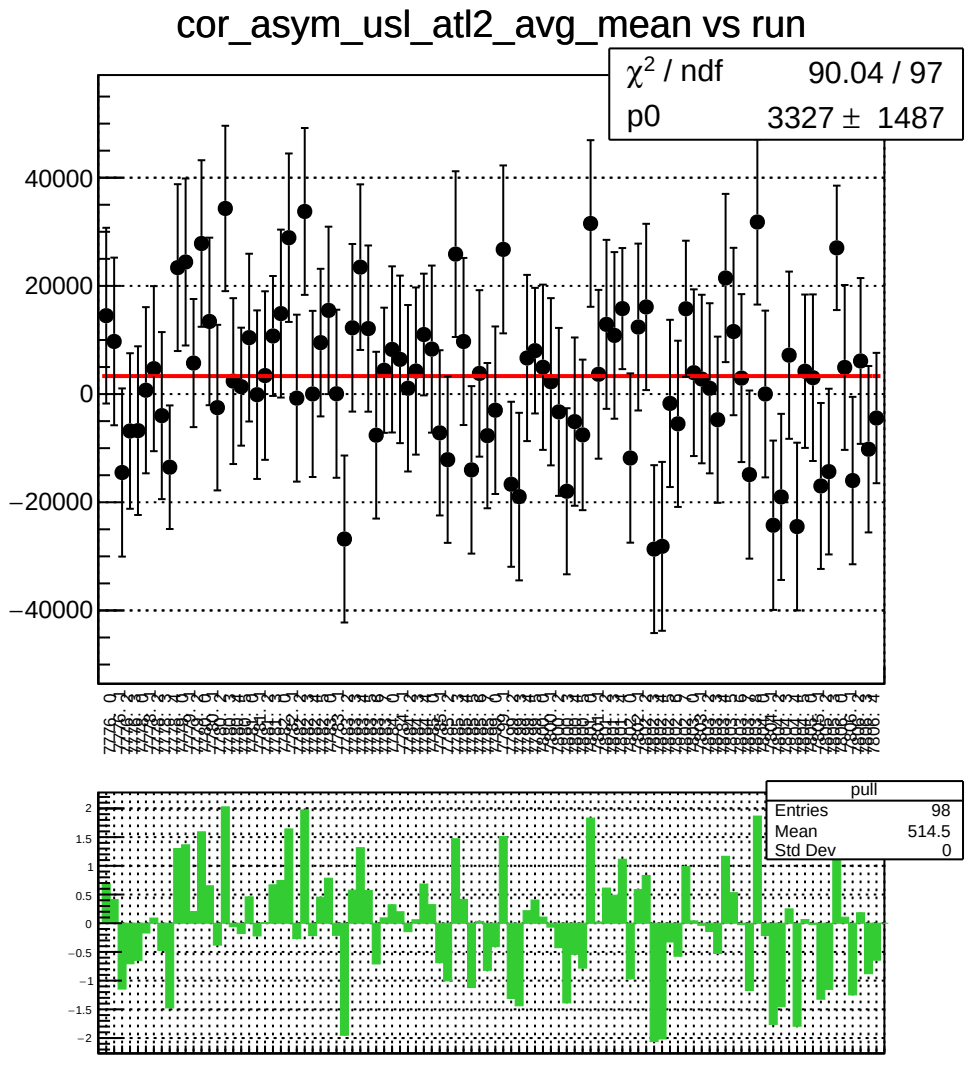

pull1D
Entries 98
Mean −0.01204
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

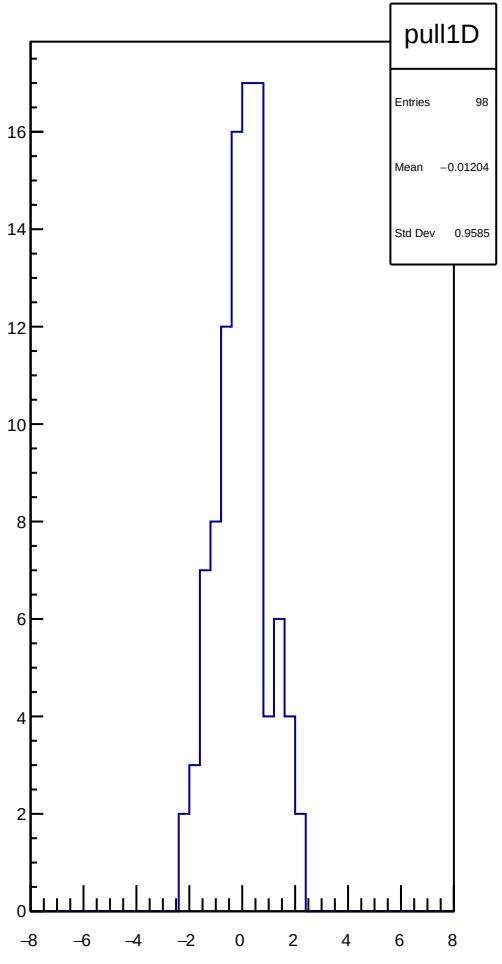

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 132.9 / 97
p0 1465 ± 1.051
1560
1540
1520
1500
1480
1460
1440

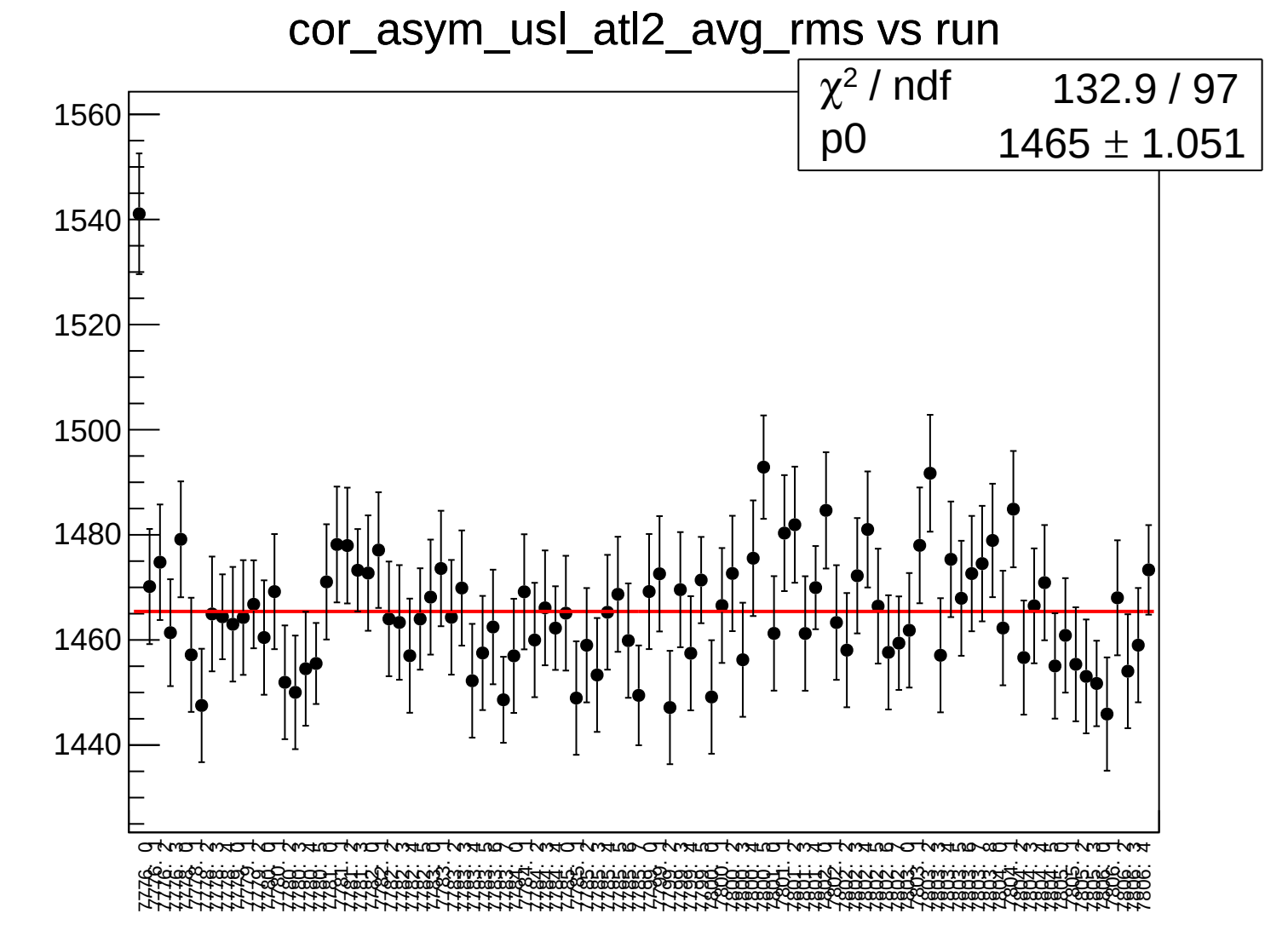

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.11 / 97
p0 4471 ± 4856
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 427.7
Std Dev 0
2
1
0
−1
−2

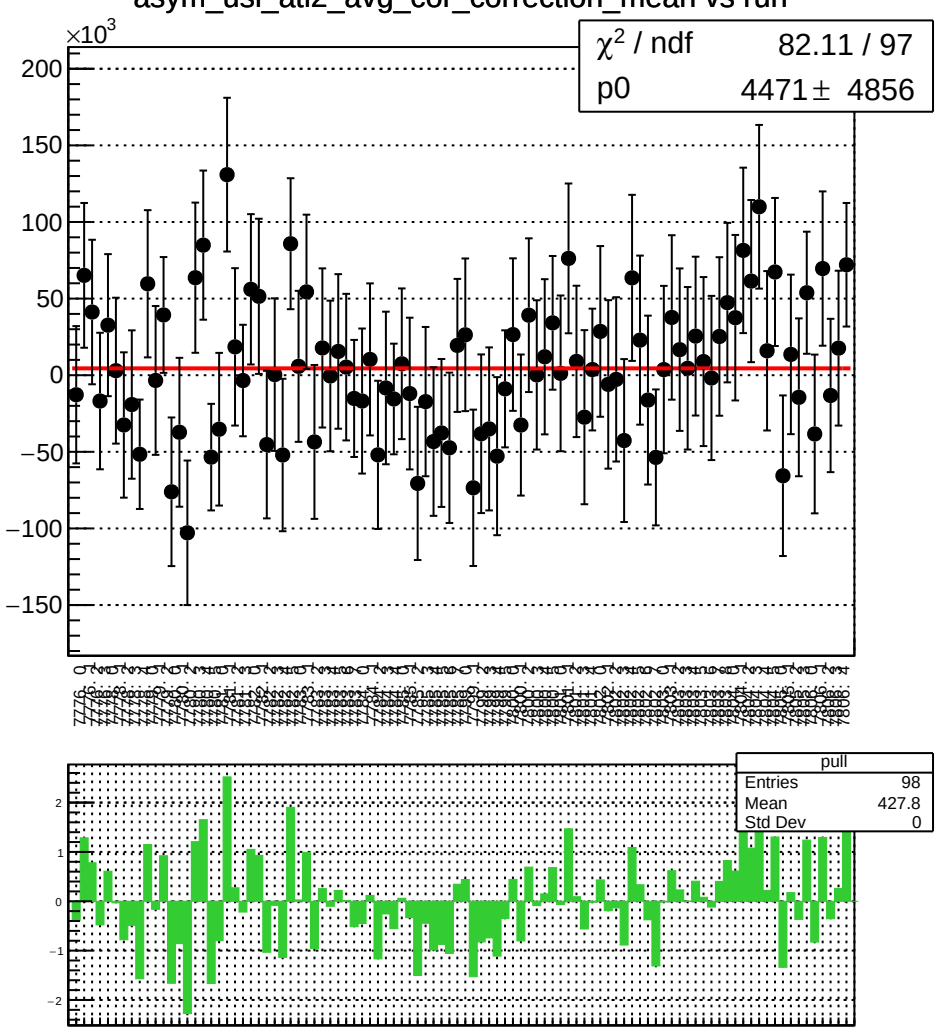

pull1D
Entries 98
Mean 0.01158
Std Dev 0.9152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

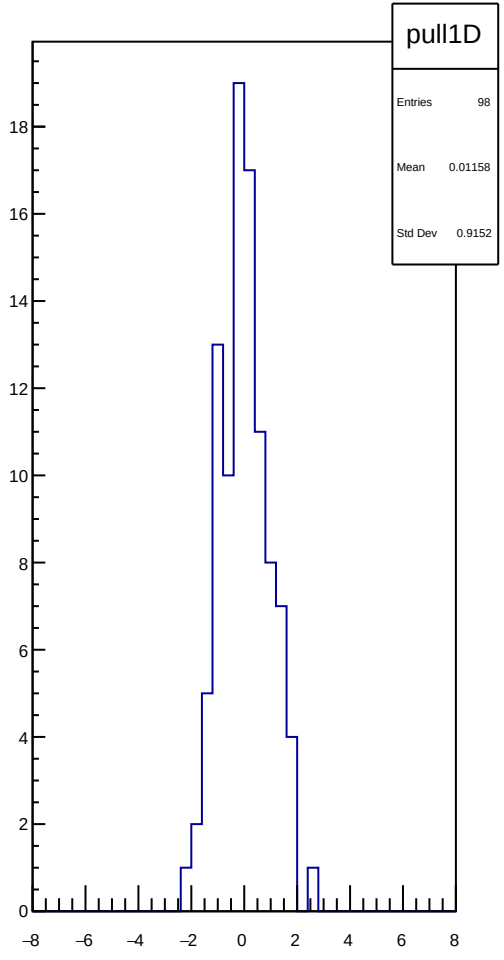

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 4299 / 97
p0 4781 ± 3.434
5400
5200
5000
4800
4600
4400
4200

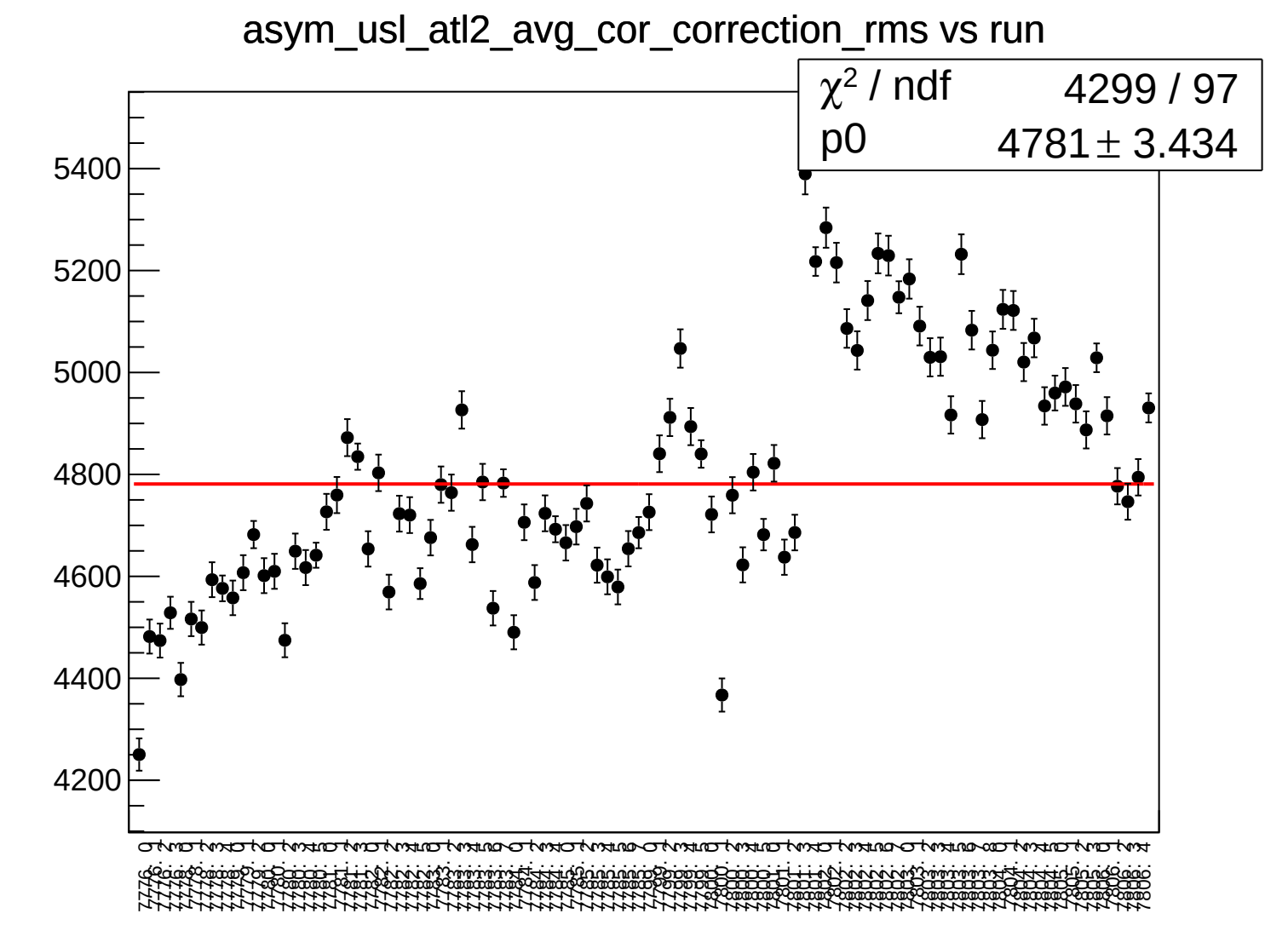

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.04 / 97
p0 3327 ± 1487
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 514.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

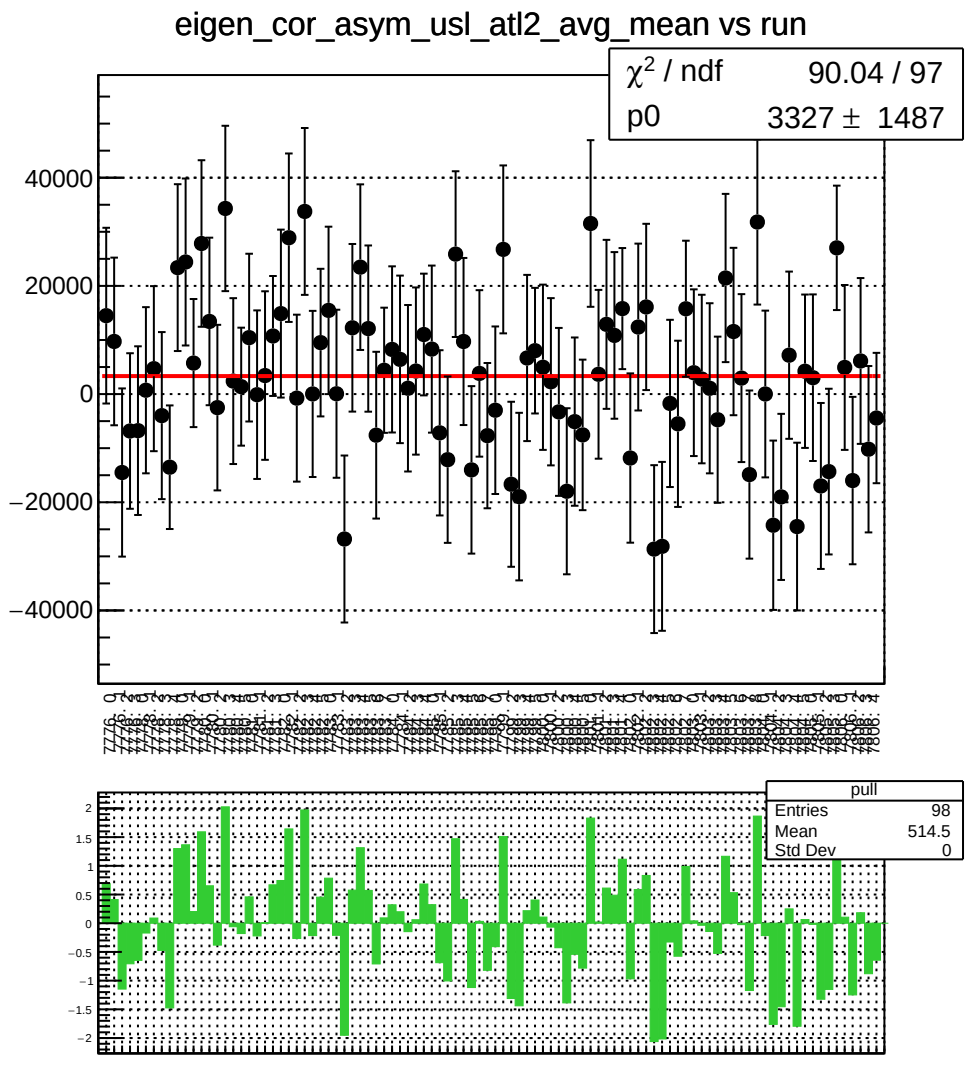

pull1D
Entries 98
Mean −0.01204
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

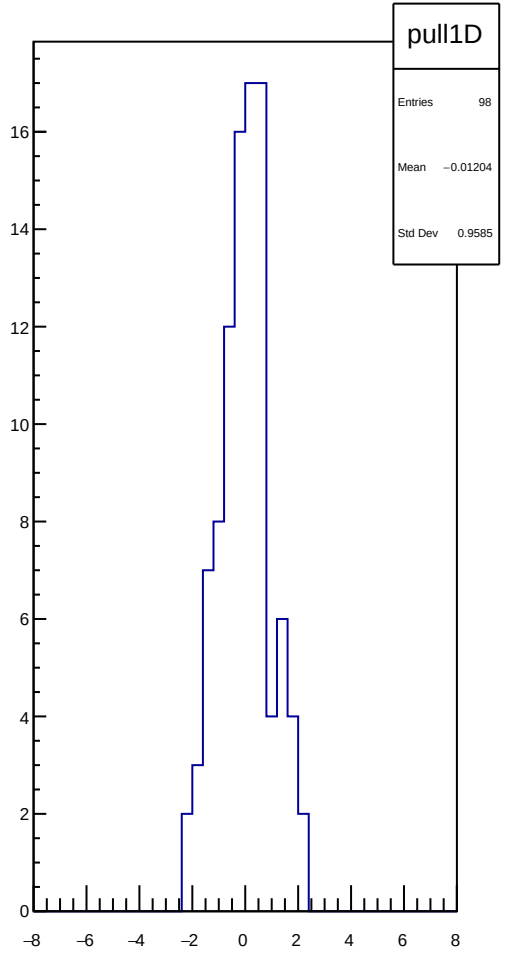

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 132.9 / 97
p0 1465 ± 1.051
1560
1540
1520
1500
1480
1460
1440

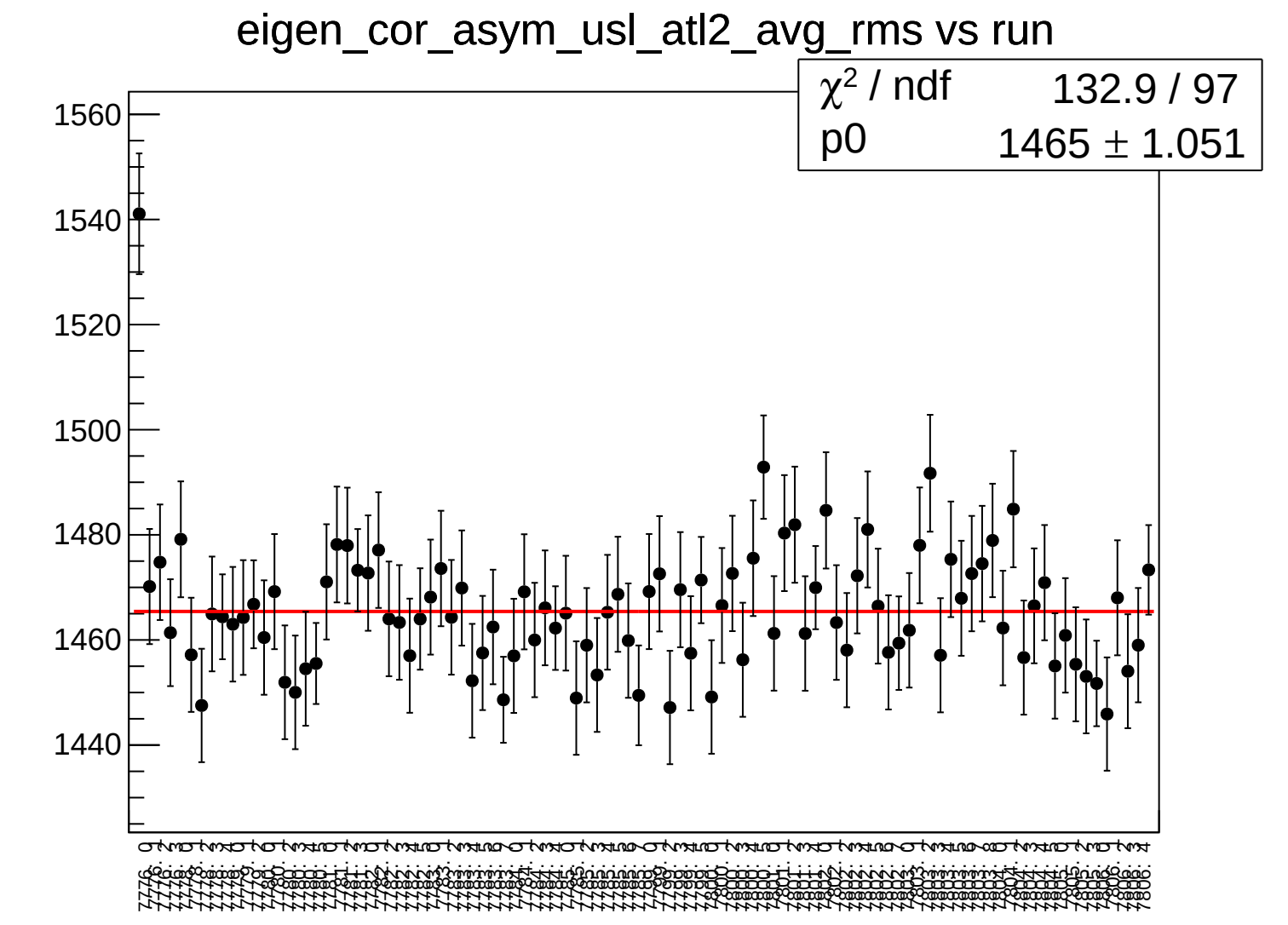

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.11 / 97
p0 4471 ± 4856
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 427.8
Std Dev 0
2
1
0
−1
−2

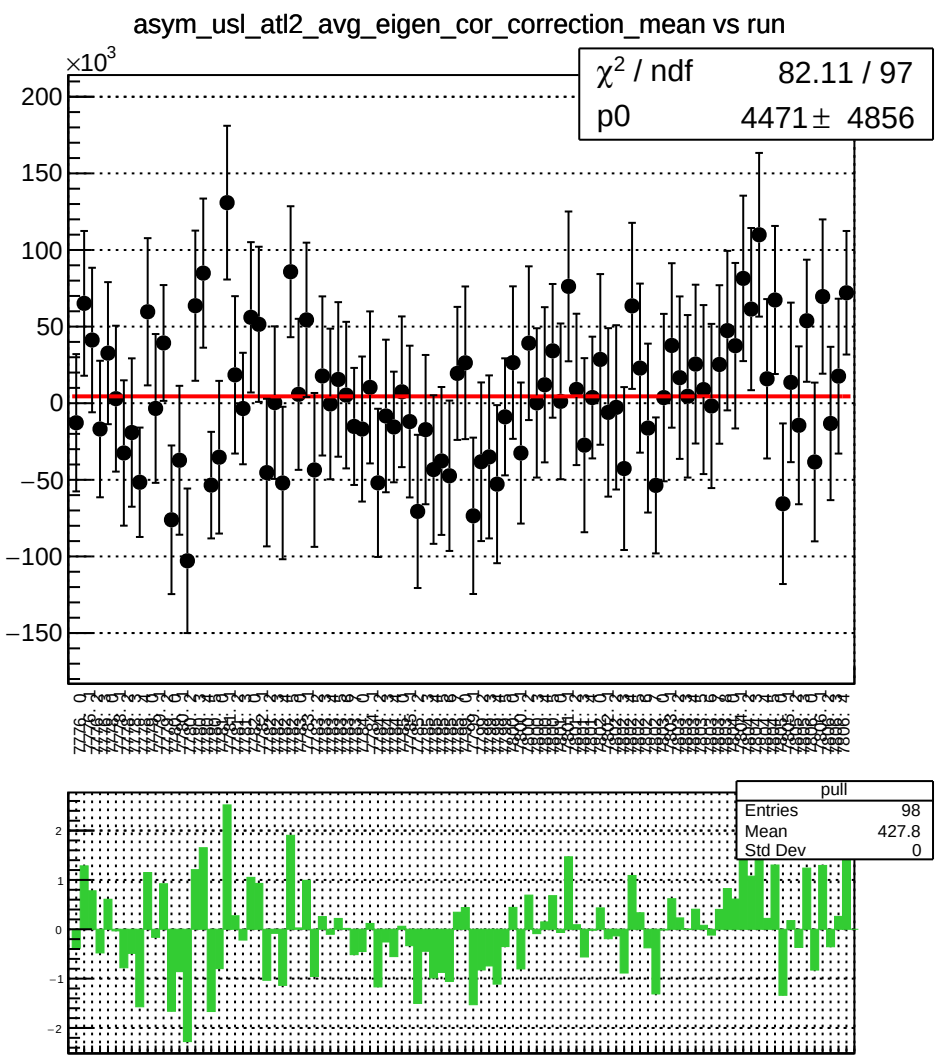

pull1D
Entries 98
Mean 0.01158
Std Dev 0.9152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

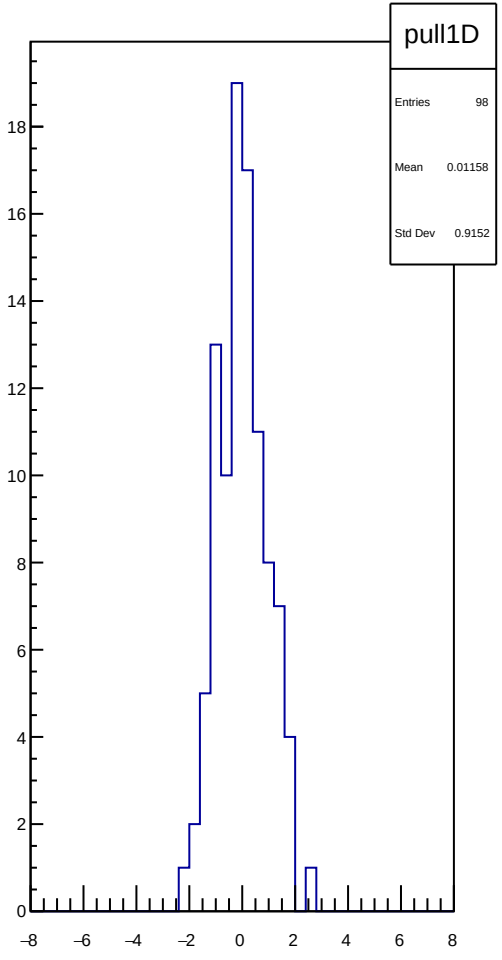

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 4299 / 97
p0 4781 ± 3.434
5400
5200
5000
4800
4600
4400
4200

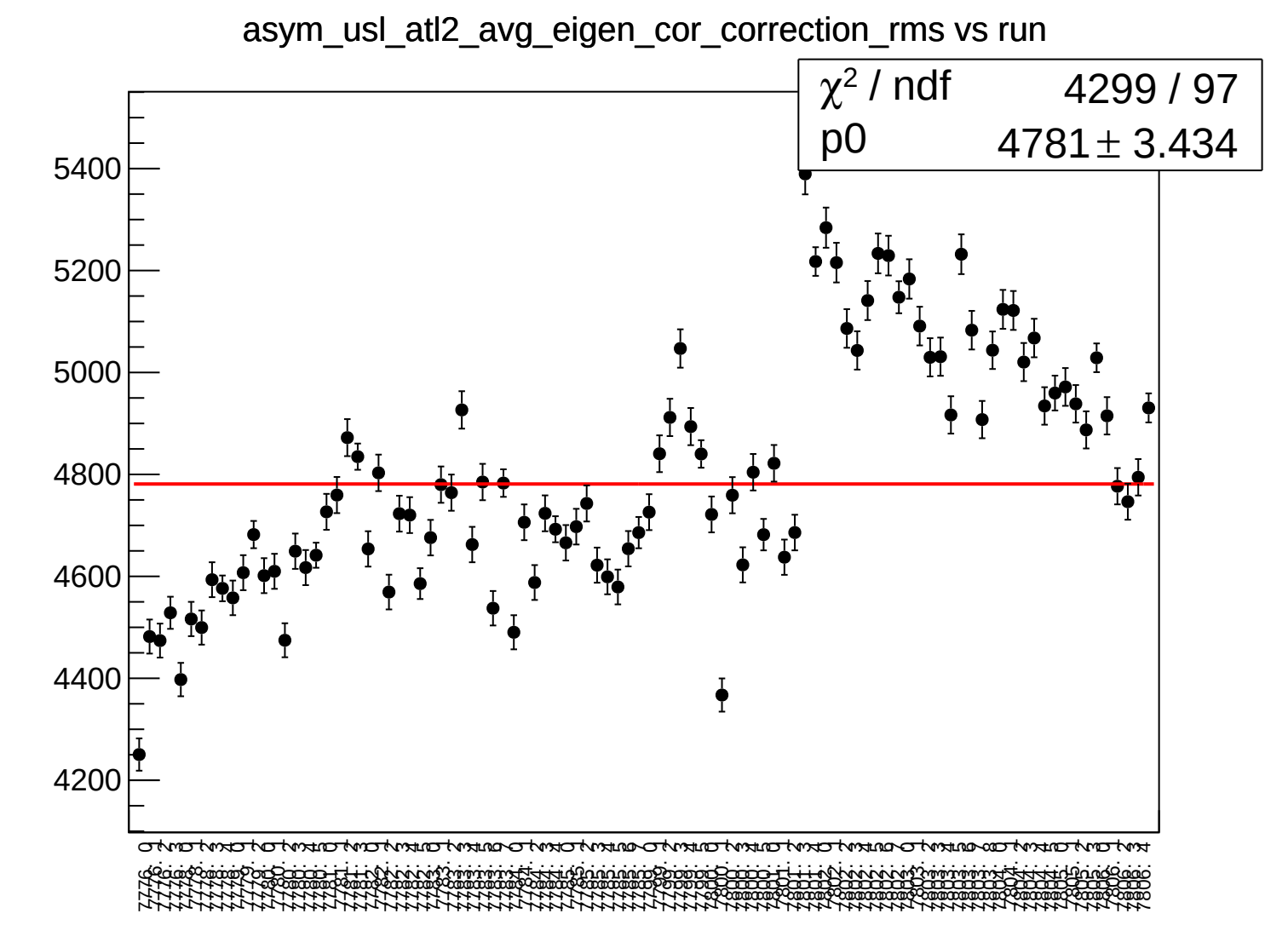

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.04 / 97
p0 3327 ± 1487
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 514.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

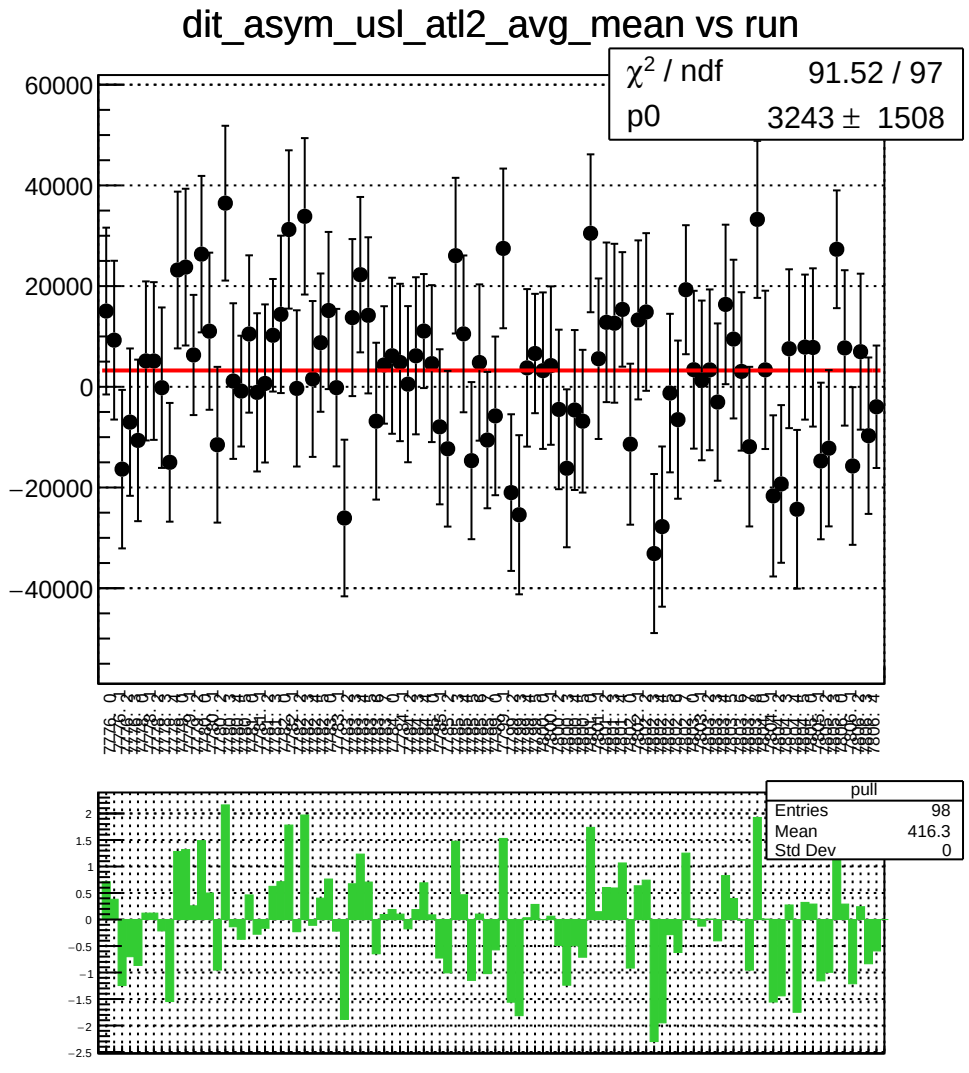

pull1D
Entries 98
Mean −0.01204
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

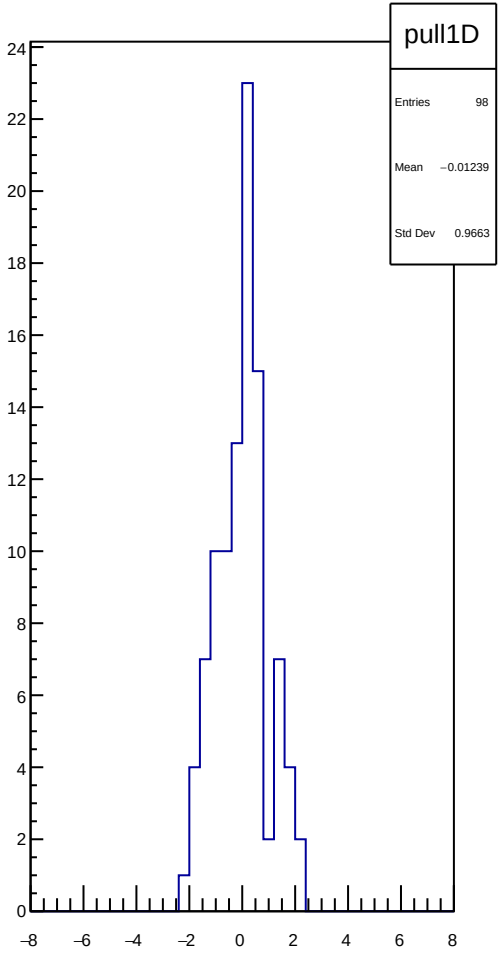

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 132.9 / 97
p0 1465 ± 1.051
1560
1540
1520
1500
1480
1460
1440

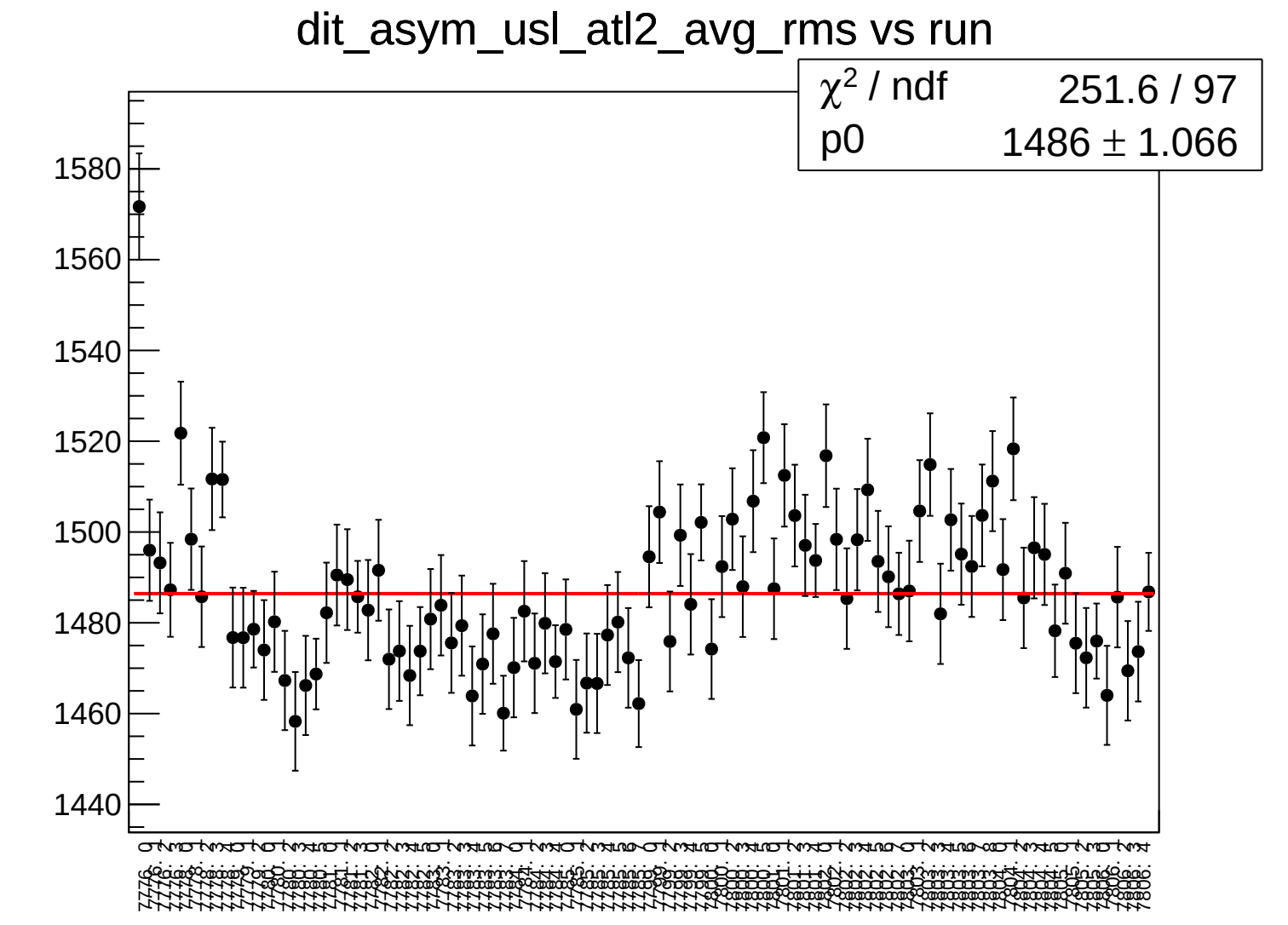

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.11 / 97
p0 4471 ± 4856
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 427.8
Std Dev 0
2
1
0
−1
−2

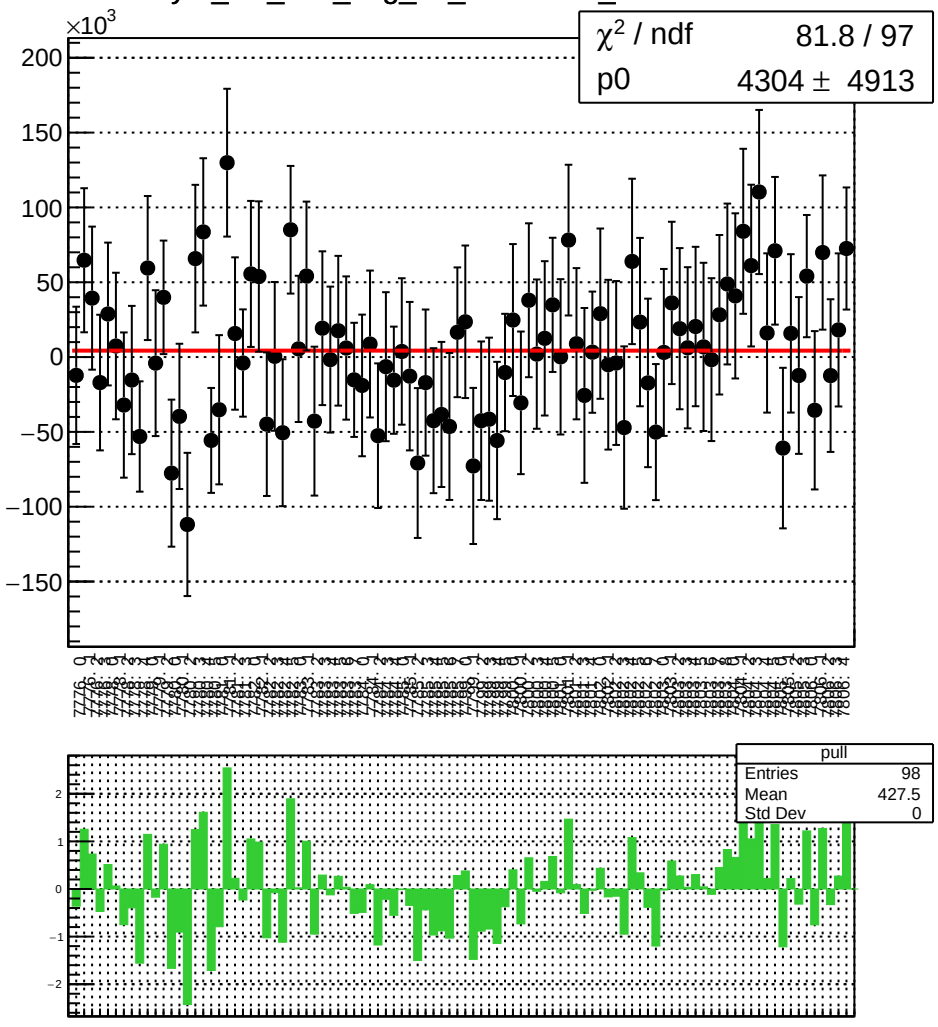

pull1D
Entries 98
Mean 0.01158
Std Dev 0.9152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

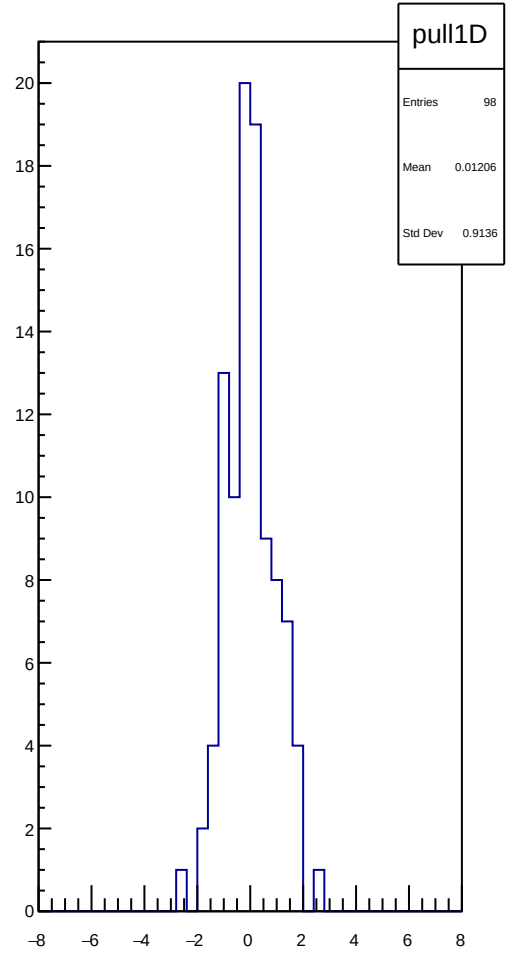

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4299 / 97
p0 4781 ± 3.434
5400
5200
5000
4800
4600
4400
4200

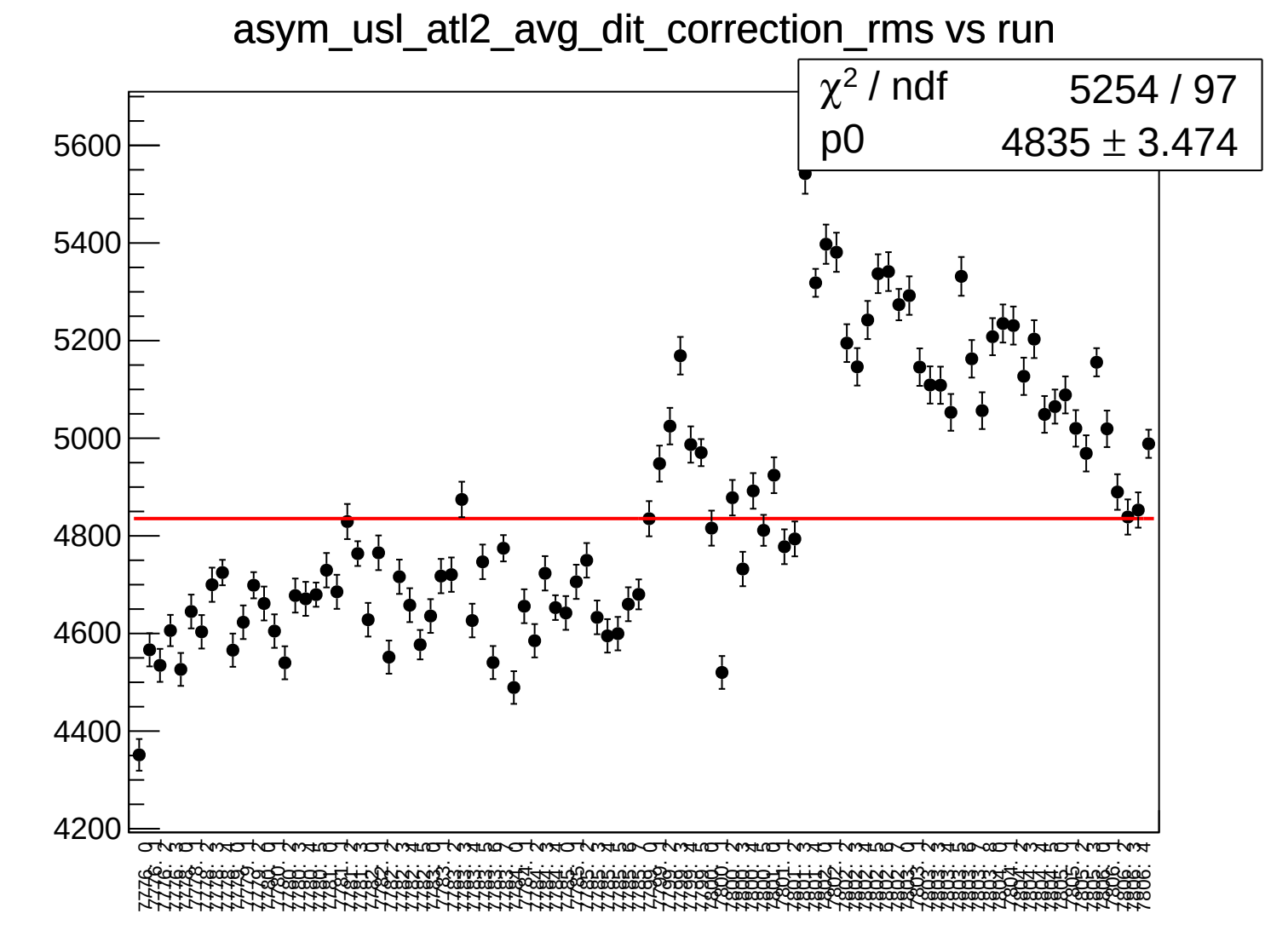

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.52 / 97
p0 3243 ± 1508
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 416.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

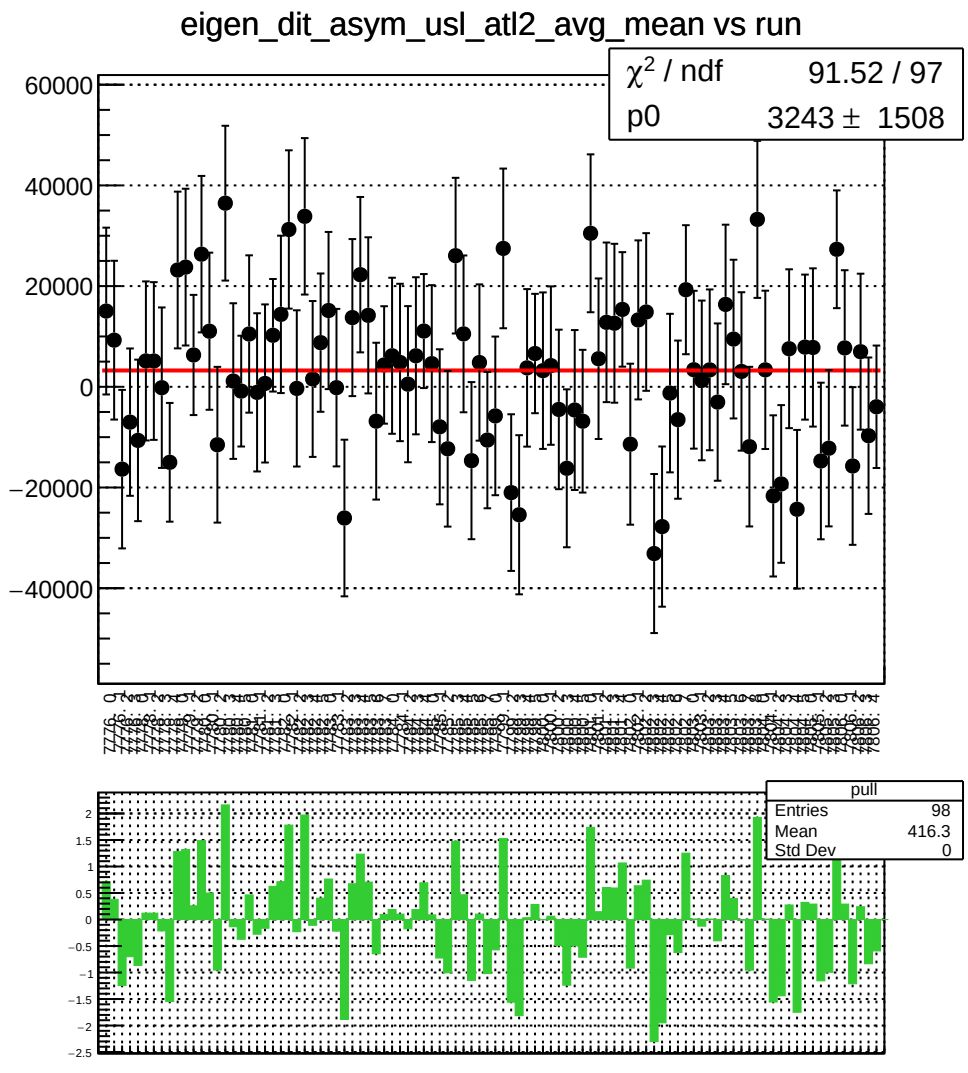

pull1D
Entries 98
Mean −0.01239
Std Dev 0.9663
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

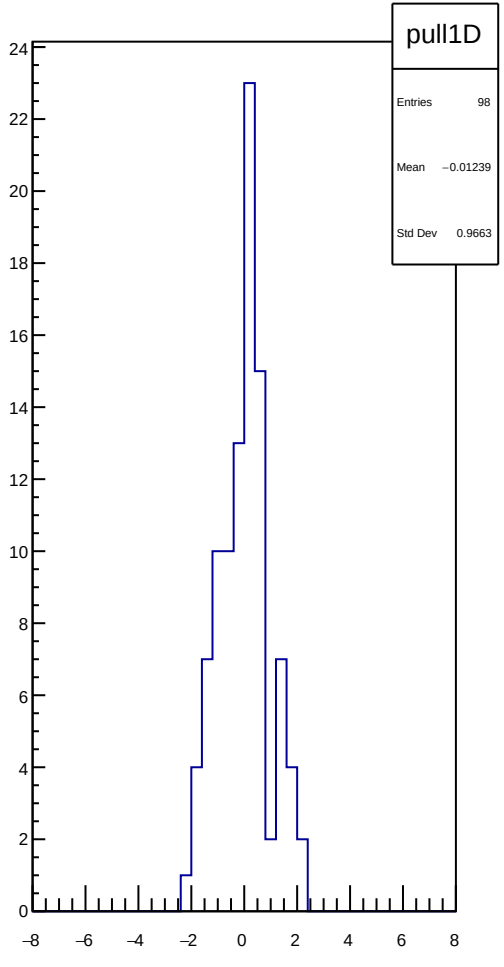

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 251.6 / 97
p0 1486 ± 1.066
1580
1560
1540
1520
1500
1480
1460
1440

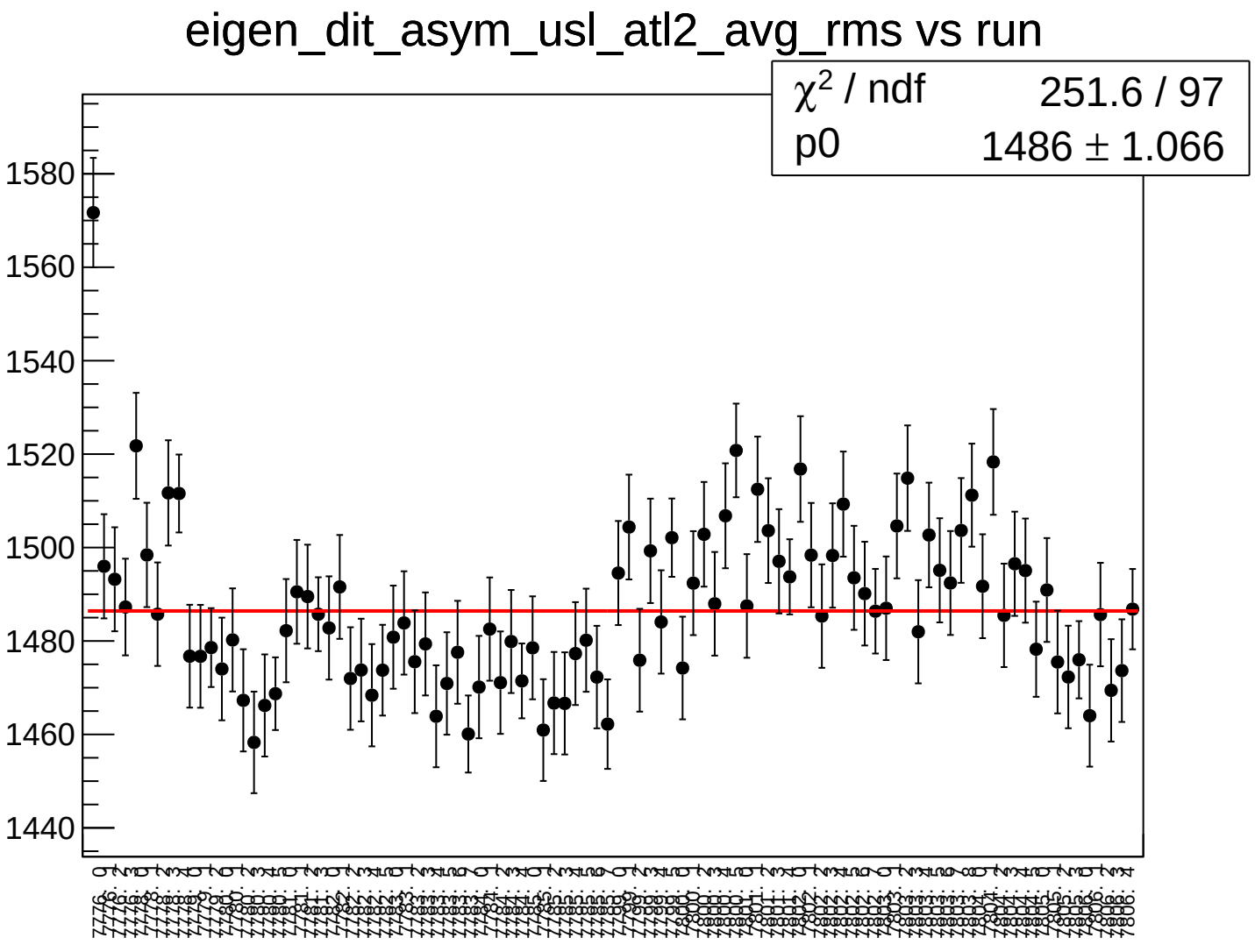

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.8 / 97
p0 4304 ± 4913
pull
Entries 98
Mean 427.5
Std Dev 0

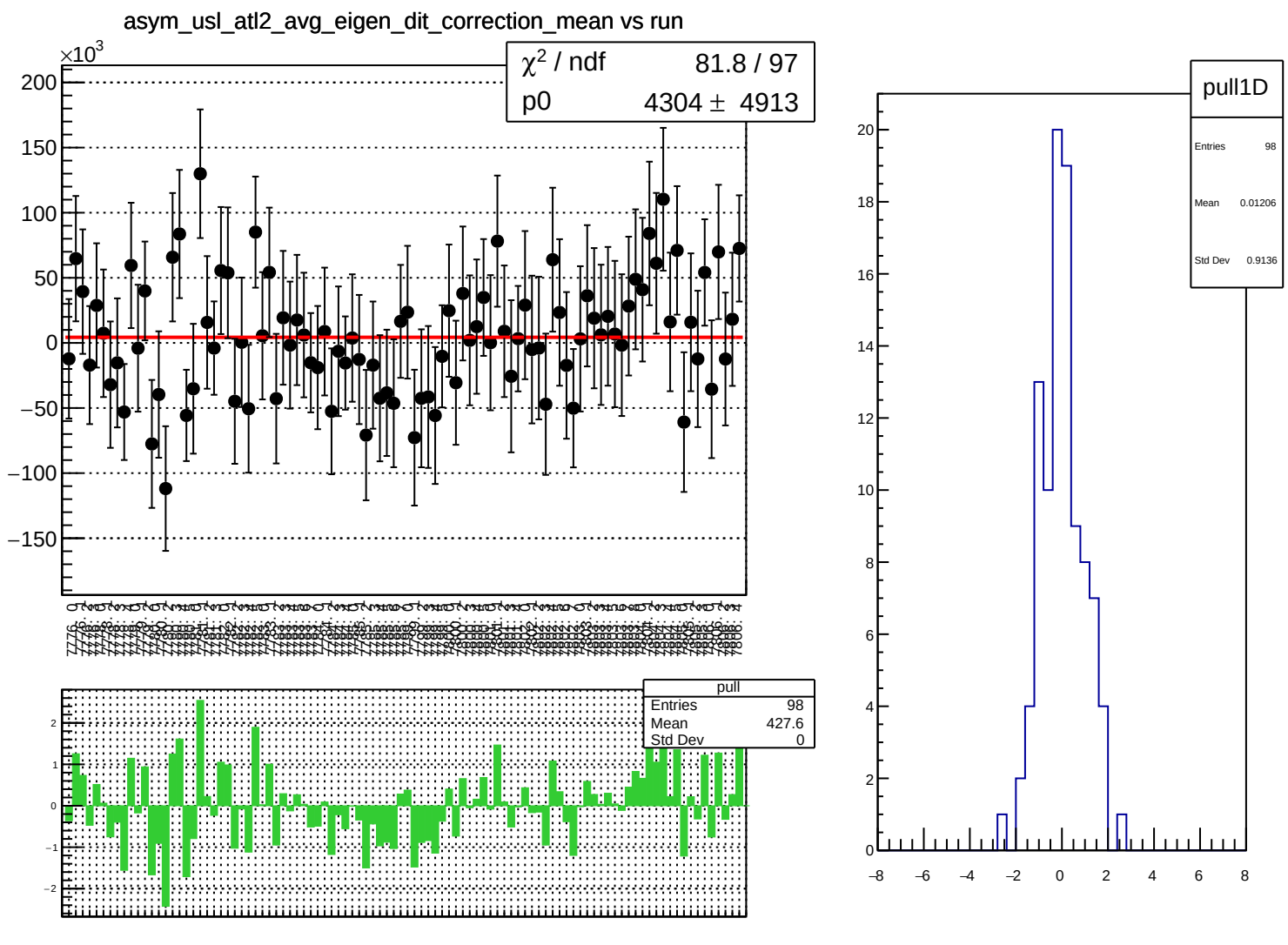

pull1D
Entries 98
Mean 0.01206
Std Dev 0.9136

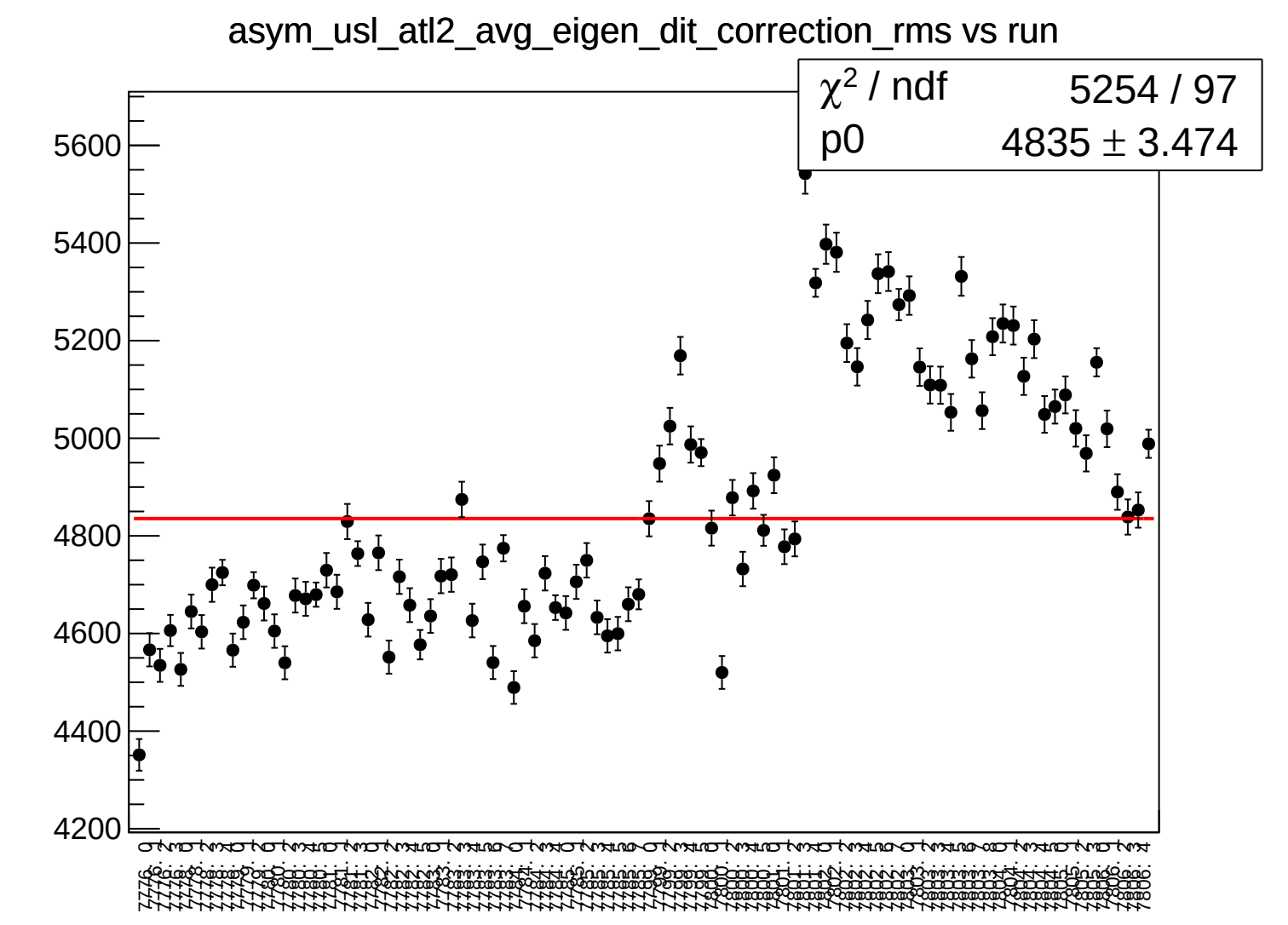

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 5254 / 97
p0 4835 ± 3.474
5600
5400
5200
5000
4800
4600
4400
4200

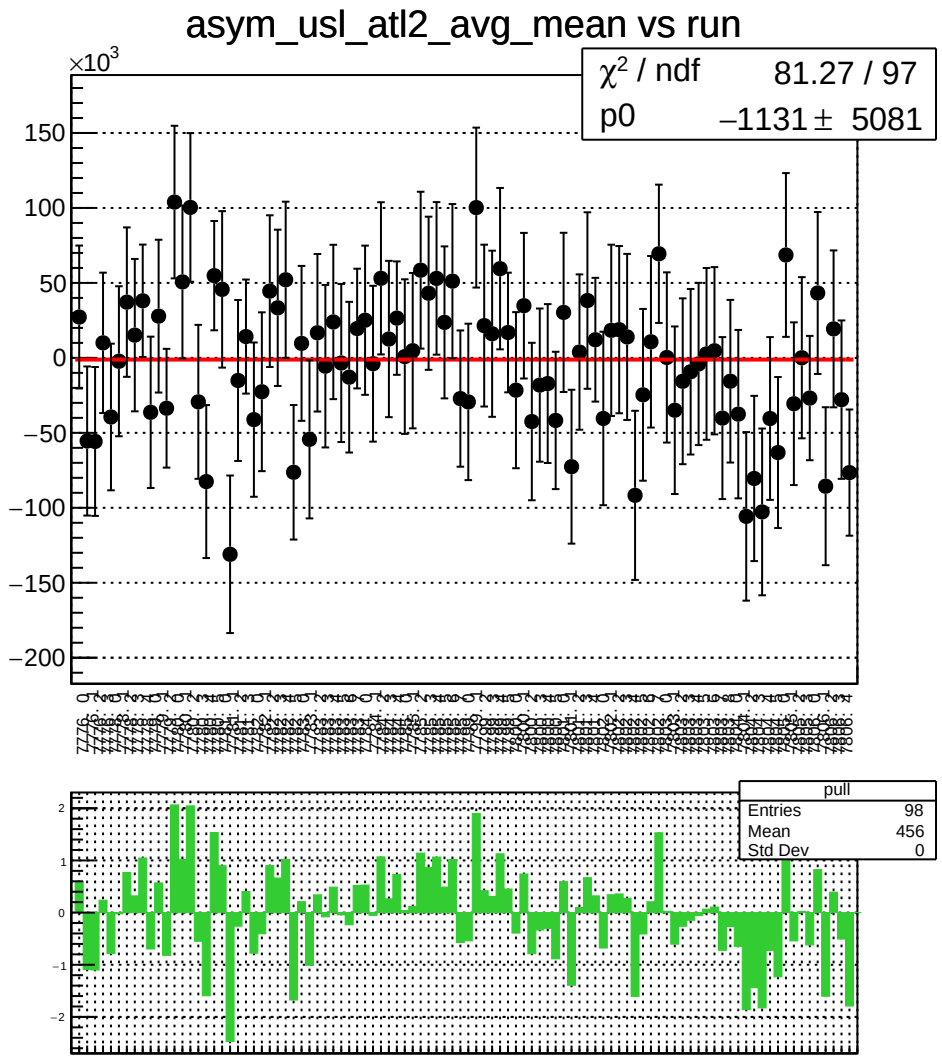

eigen_dit_asym_usl_atl2_avg_mean vs run
χ^2 / ndf 91.52 / 97
p0 3243 ± 1508
60000
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 416.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

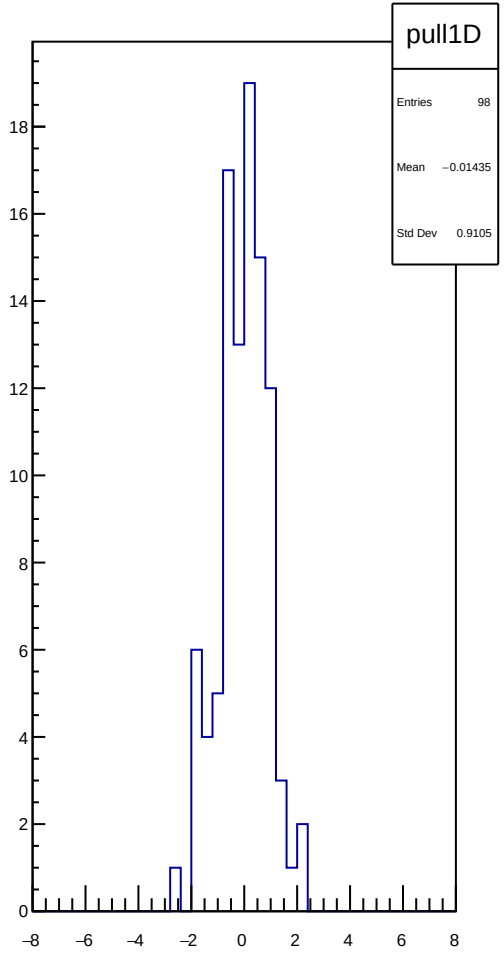

pull1D
Entries 98
Mean −0.01239
Std Dev 0.9663
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

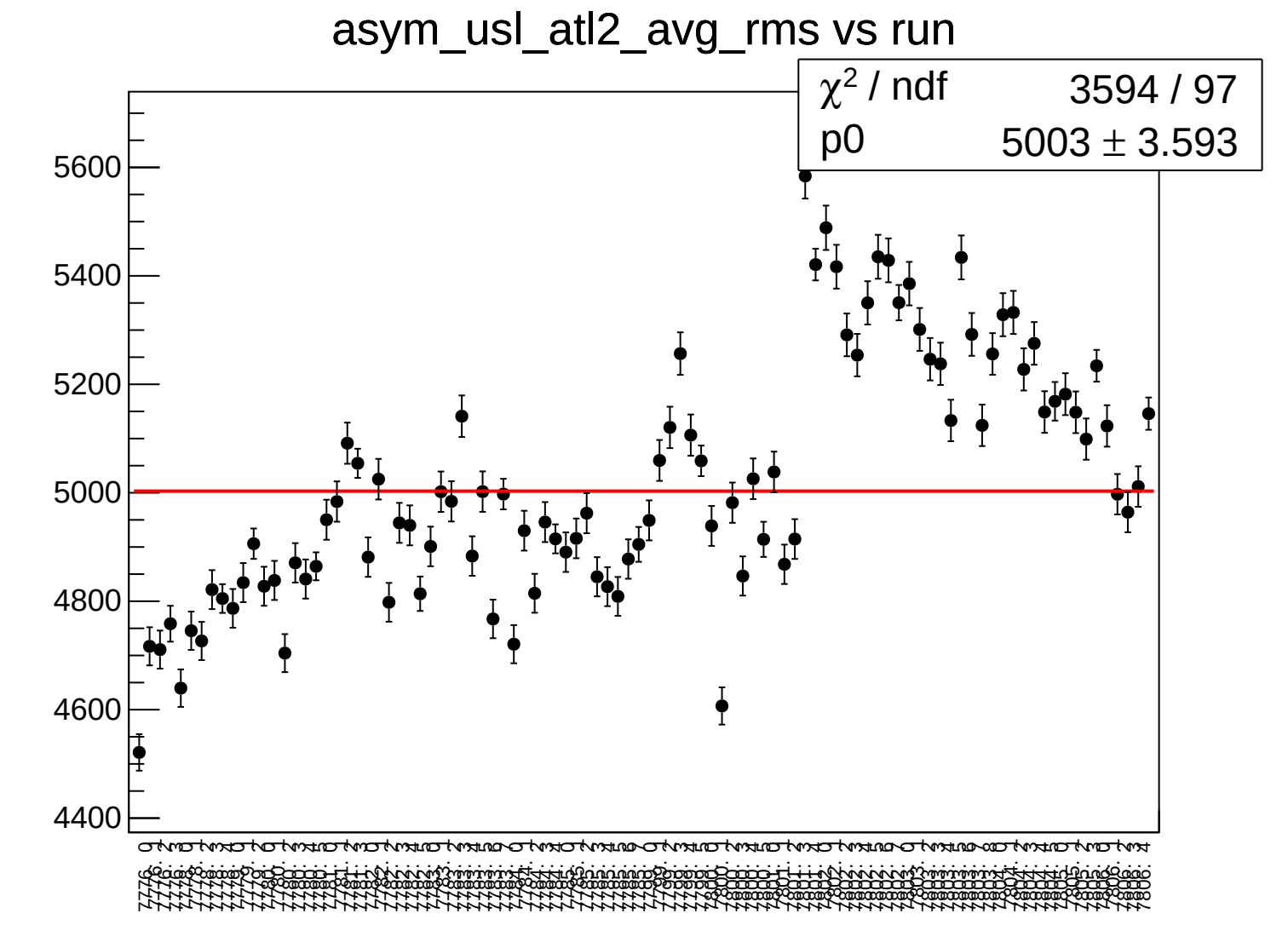

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 251.6 / 97
p0 1486 ± 1.066
1580
1560
1540
1520
1500
1480
1460
1440

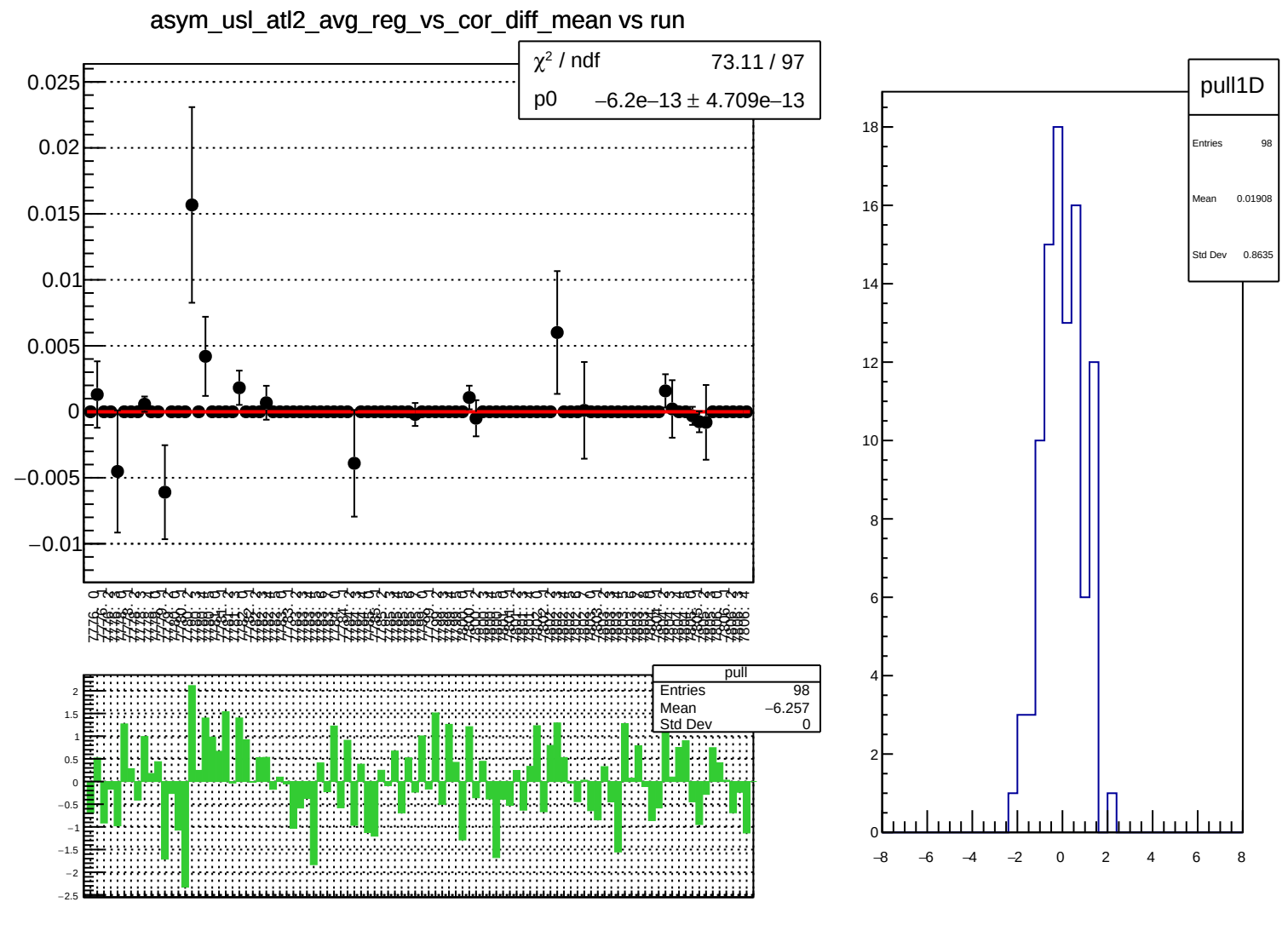

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.8 / 97
p0 4304 ± 4913
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 427.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01206
Std Dev 0.9136
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

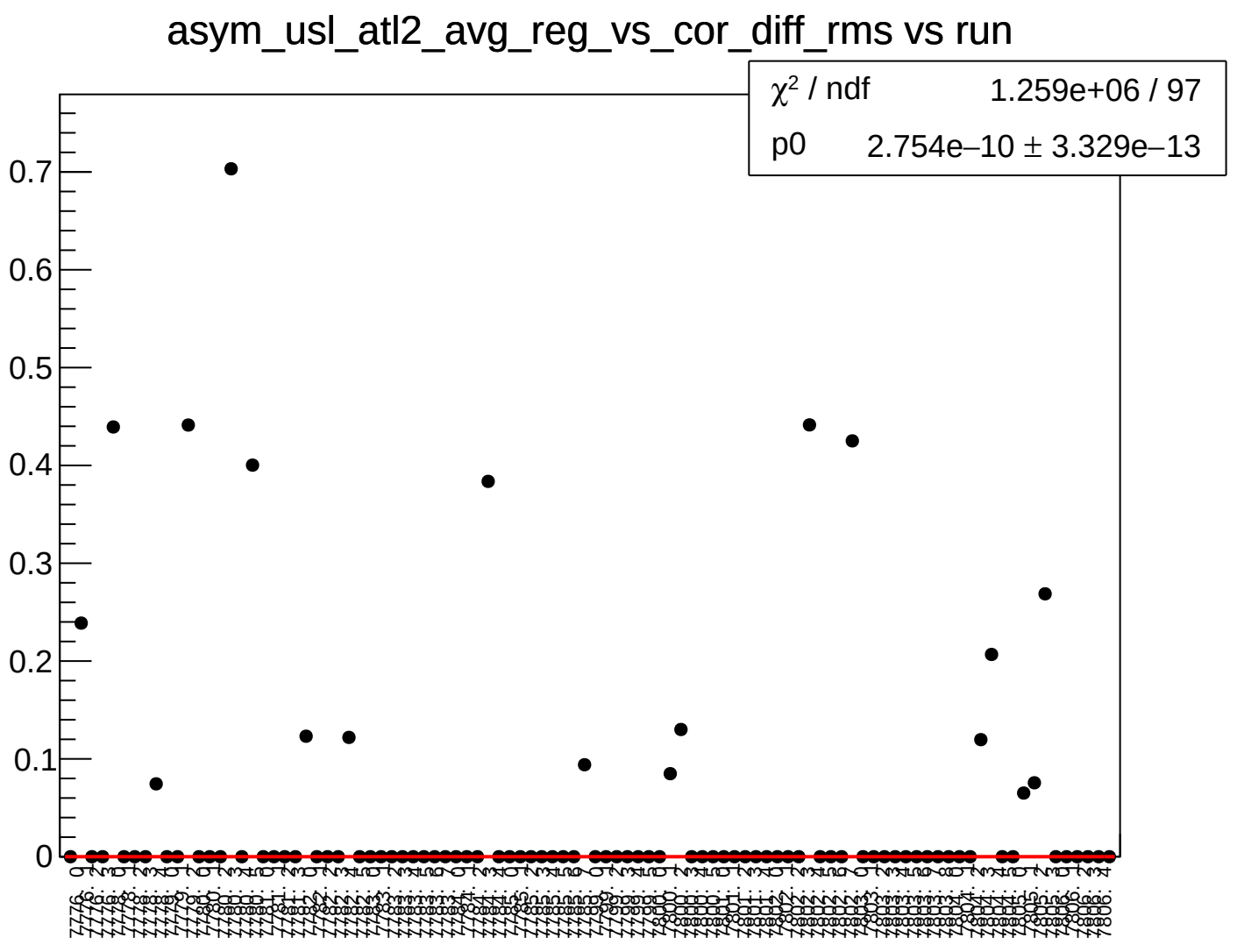

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5254 / 97
p0 4835 ± 3.474
5600
5400
5200
5000
4800
4600
4400
4200

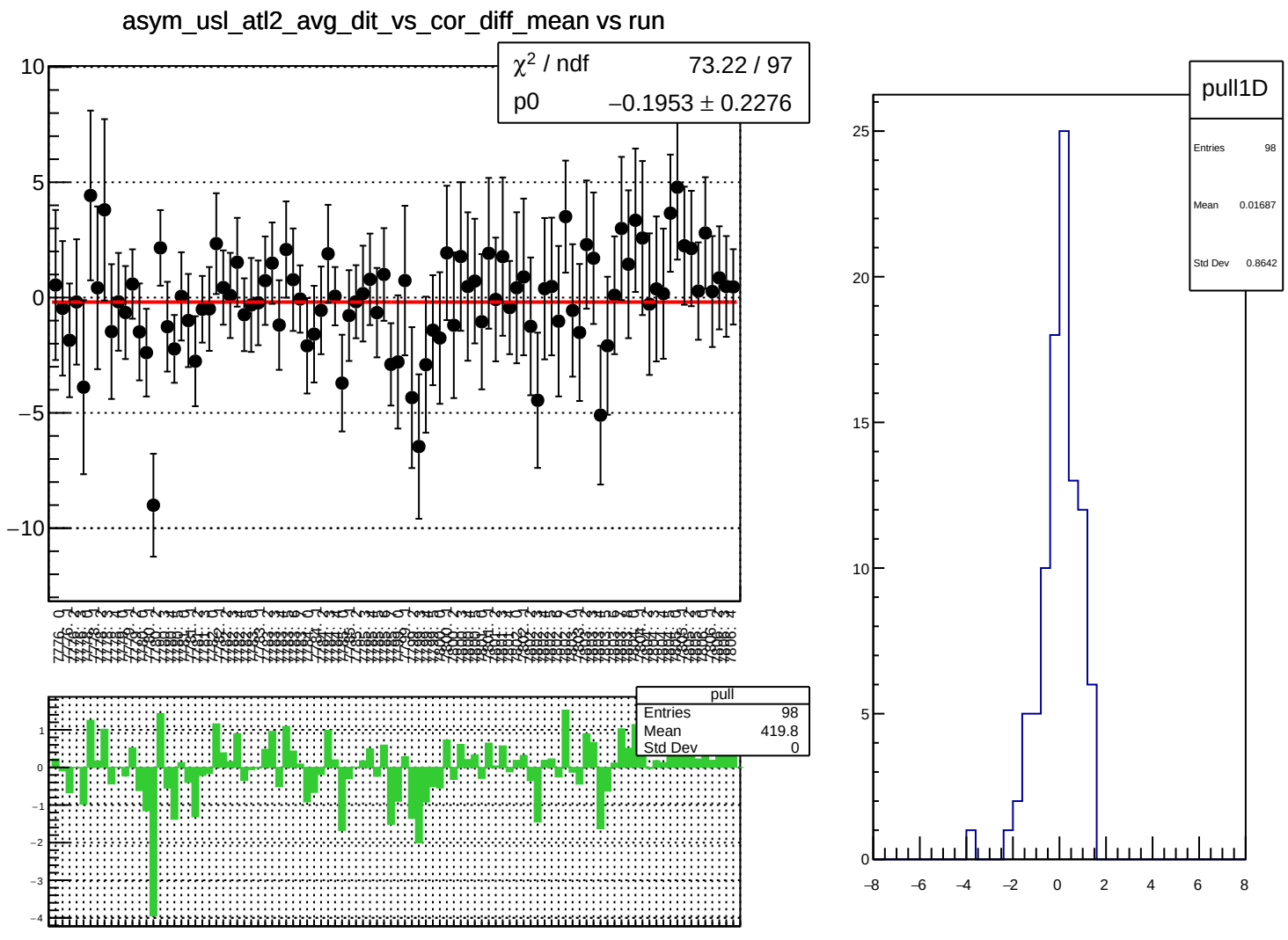

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 81.27 / 97
p0 −1131 ± 5081
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 456
Std Dev 0
2
1
0
−1
−2

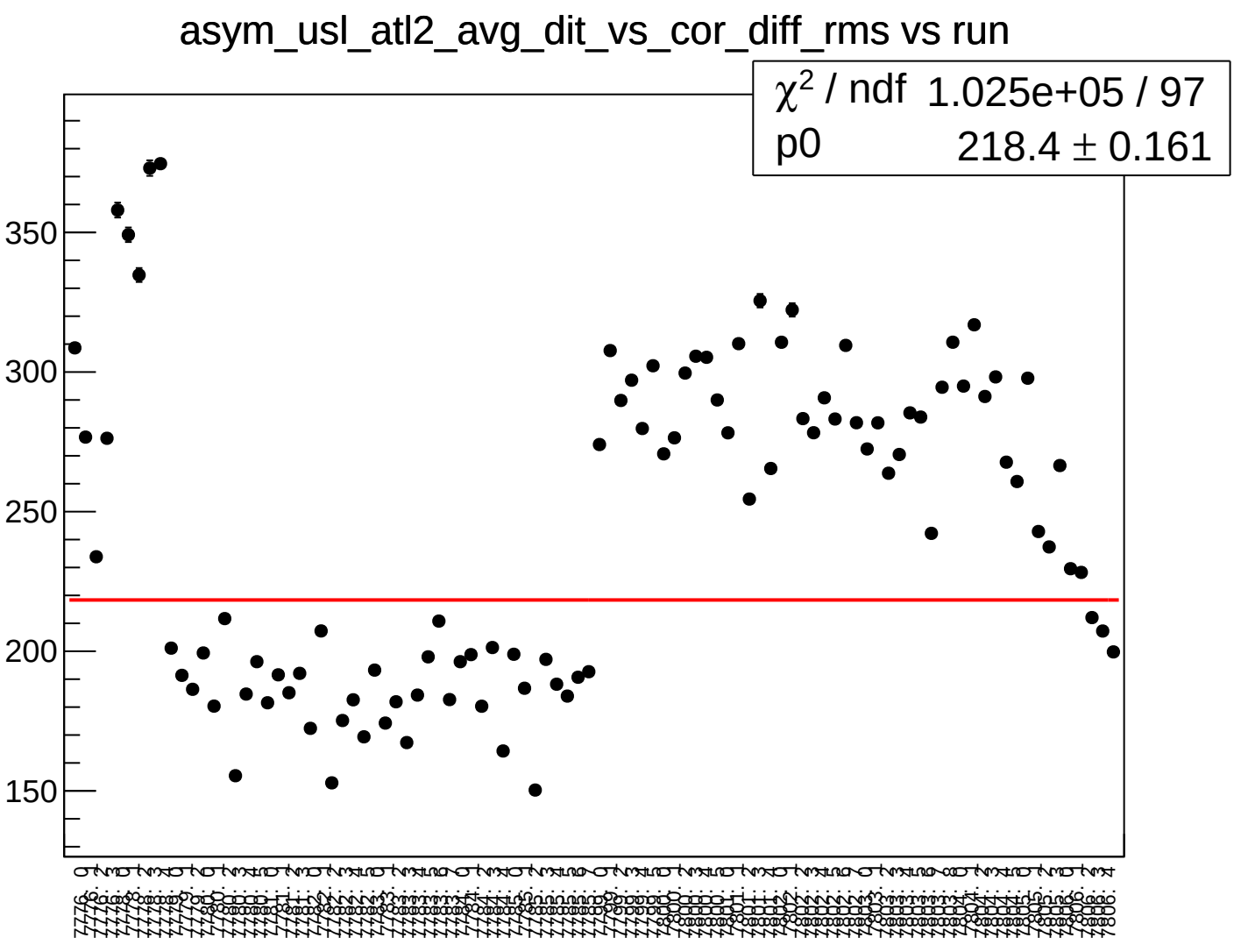

pull1D
Entries 98
Mean −0.01435
Std Dev 0.9105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

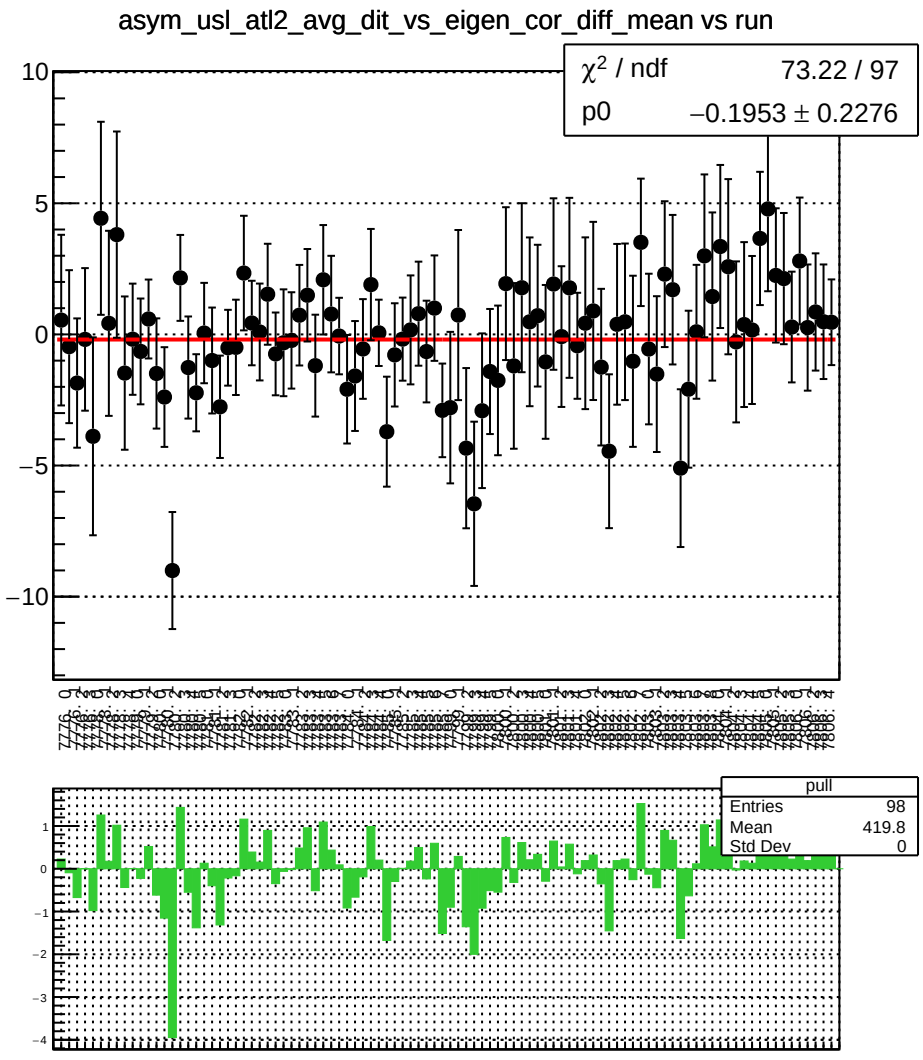

asym_usl_atl2_avg_rms vs run
χ² / ndf 3594 / 97
p0 5003 ± 3.593
5600
5400
5200
5000
4800
4600
4400

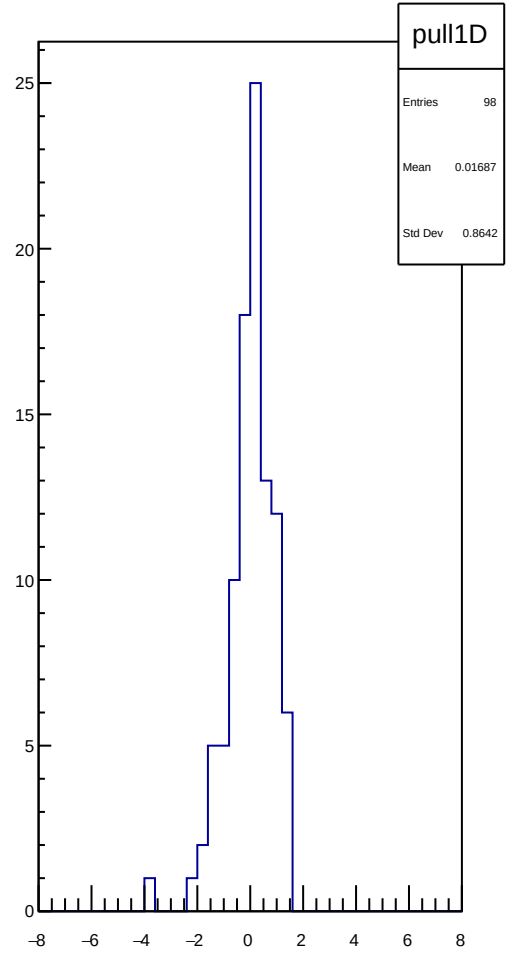

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.11 / 97
p0 −6.2e−13 ± 4.709e−13
pull
Entries 98
Mean −6.257
Std Dev 0
pull1D
Entries 98
Mean 0.01908
Std Dev 0.8635

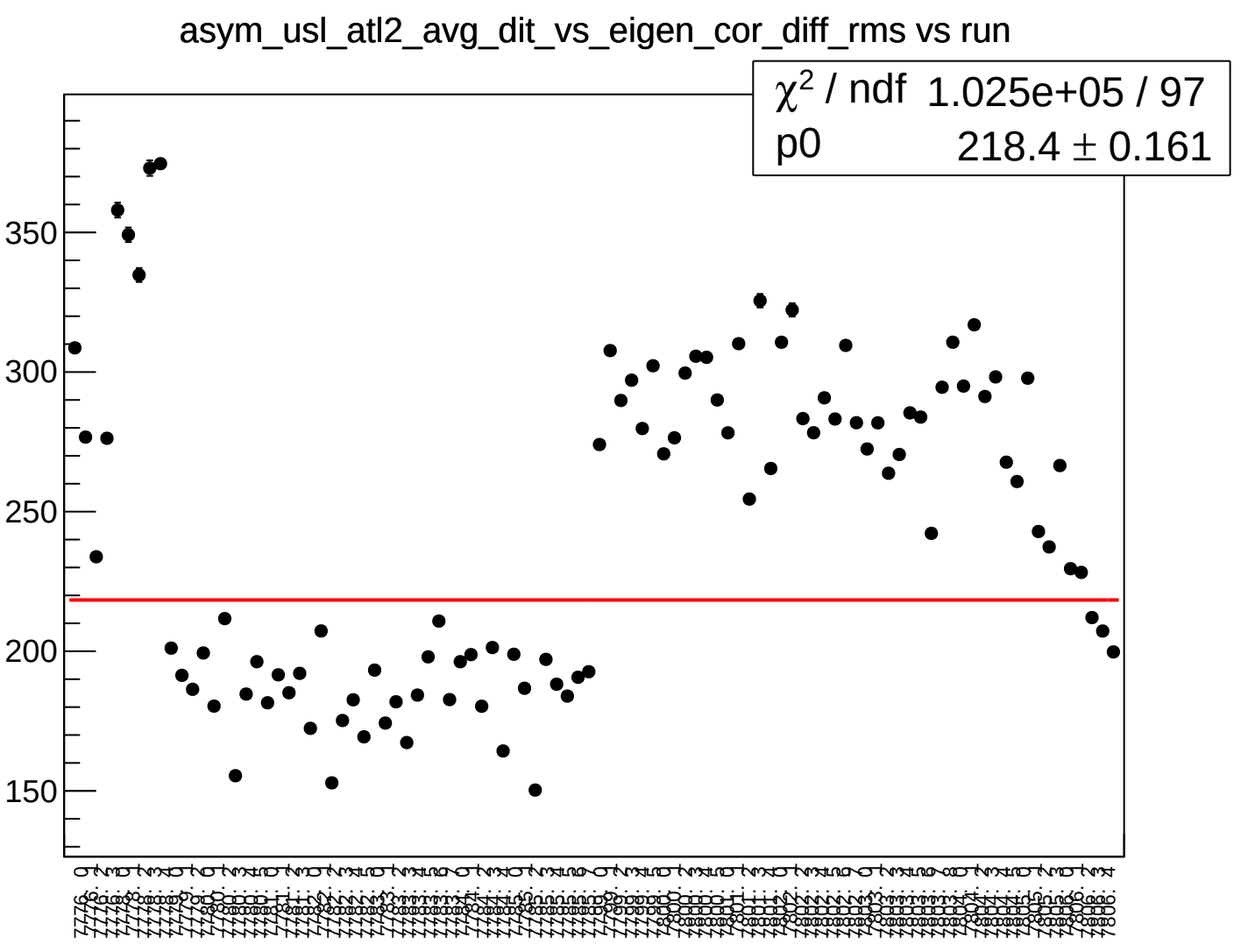

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.259e+06 / 97
p0 2.754e−10 ± 3.329e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

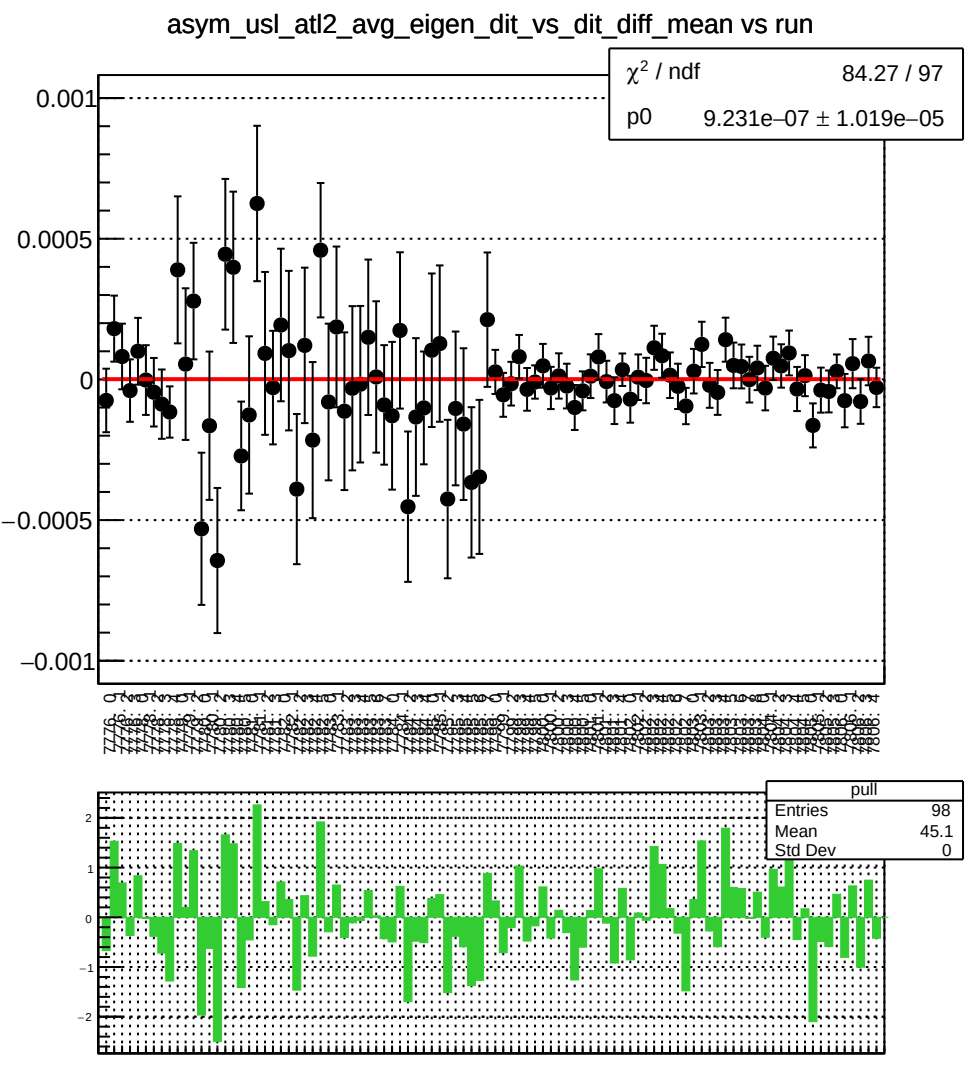

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.22 / 97
p0 −0.1953 ± 0.2276
pull
Entries 98
Mean 419.8
Std Dev 0
pull1D
Entries 98
Mean 0.01687
Std Dev 0.8642

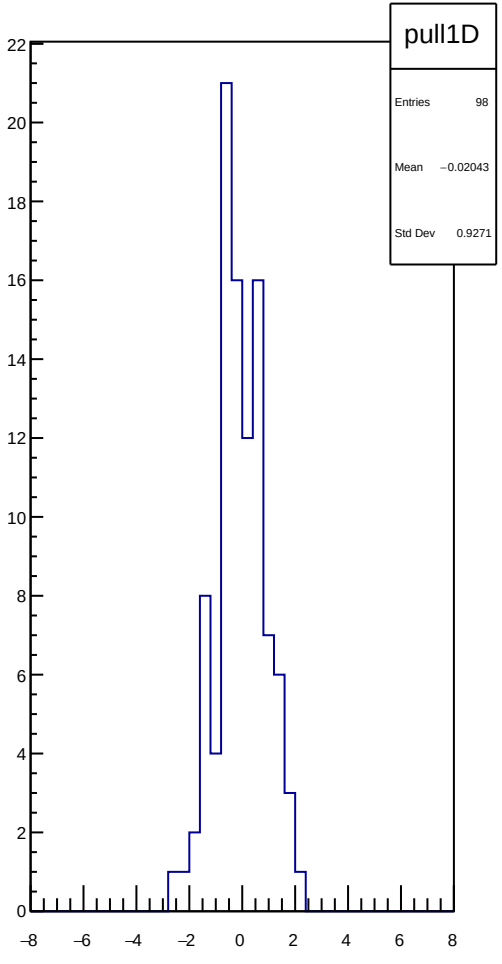

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 97
p0 218.4 ± 0.161
350
300
250
200
150

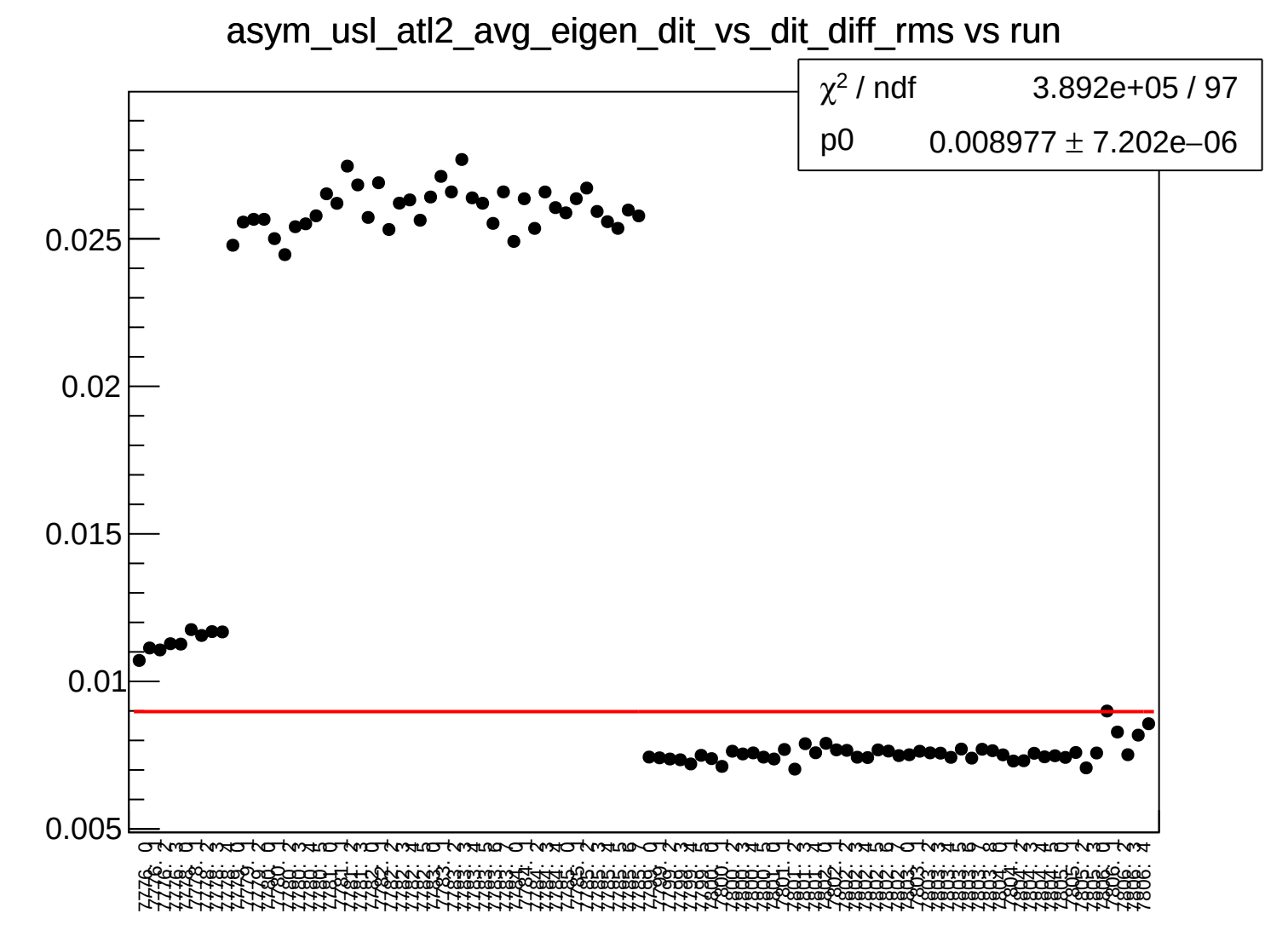

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.22 / 97
p0 −0.1953 ± 0.2276
pull
Entries 98
Mean 419.8
Std Dev 0

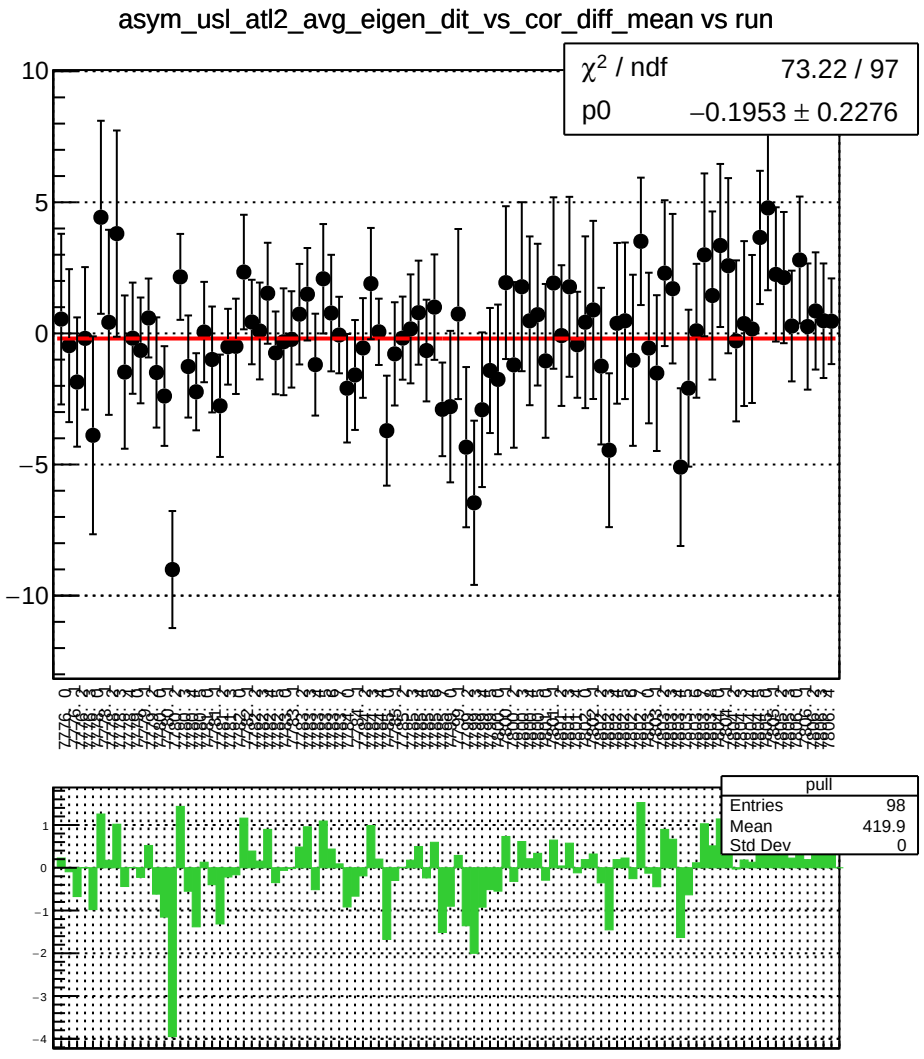

pull1D
Entries 98
Mean 0.01687
Std Dev 0.8642

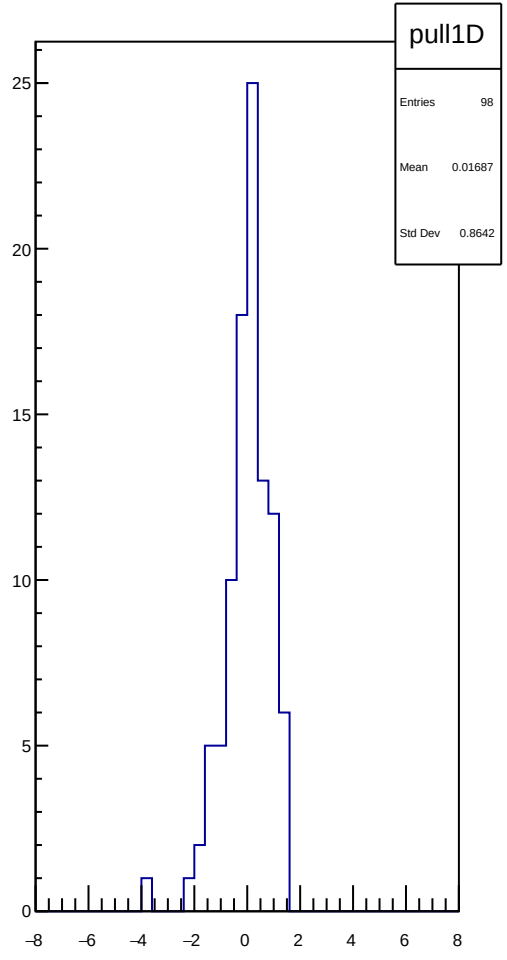

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 97
p0 218.4 ± 0.161
350
300
250
200
150

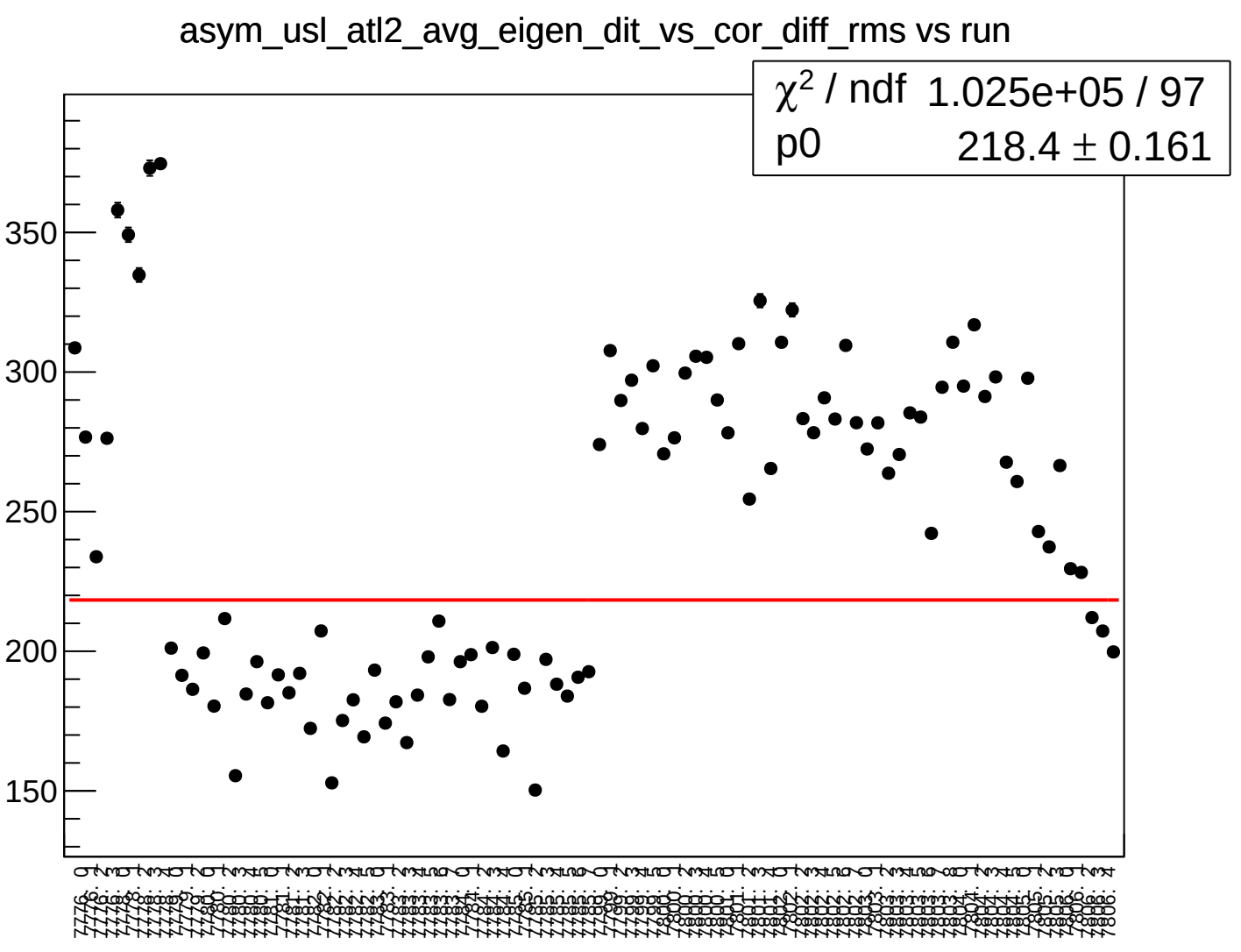

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.27 / 97
p0 9.231e−07 ± 1.019e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 98
Mean 45.1
Std Dev 0
2
1
0
−1
−2

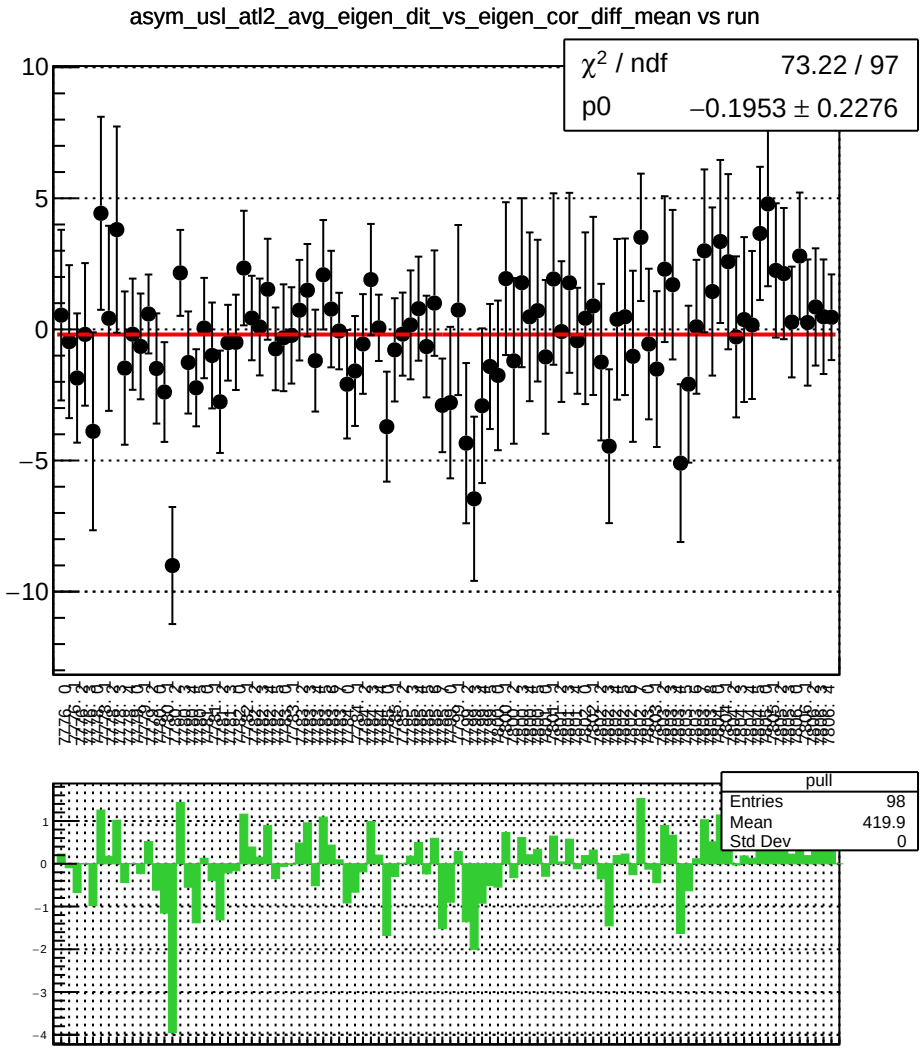

pull1D
Entries 98
Mean −0.02043
Std Dev 0.9271
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

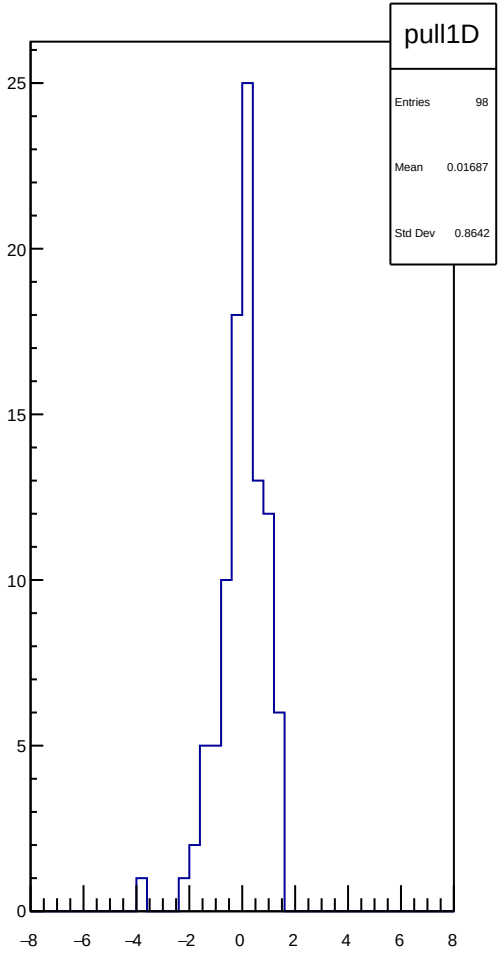

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.892e+05 / 97
p0 0.008977 ± 7.202e−06
0.025
0.02
0.015
0.01
0.005

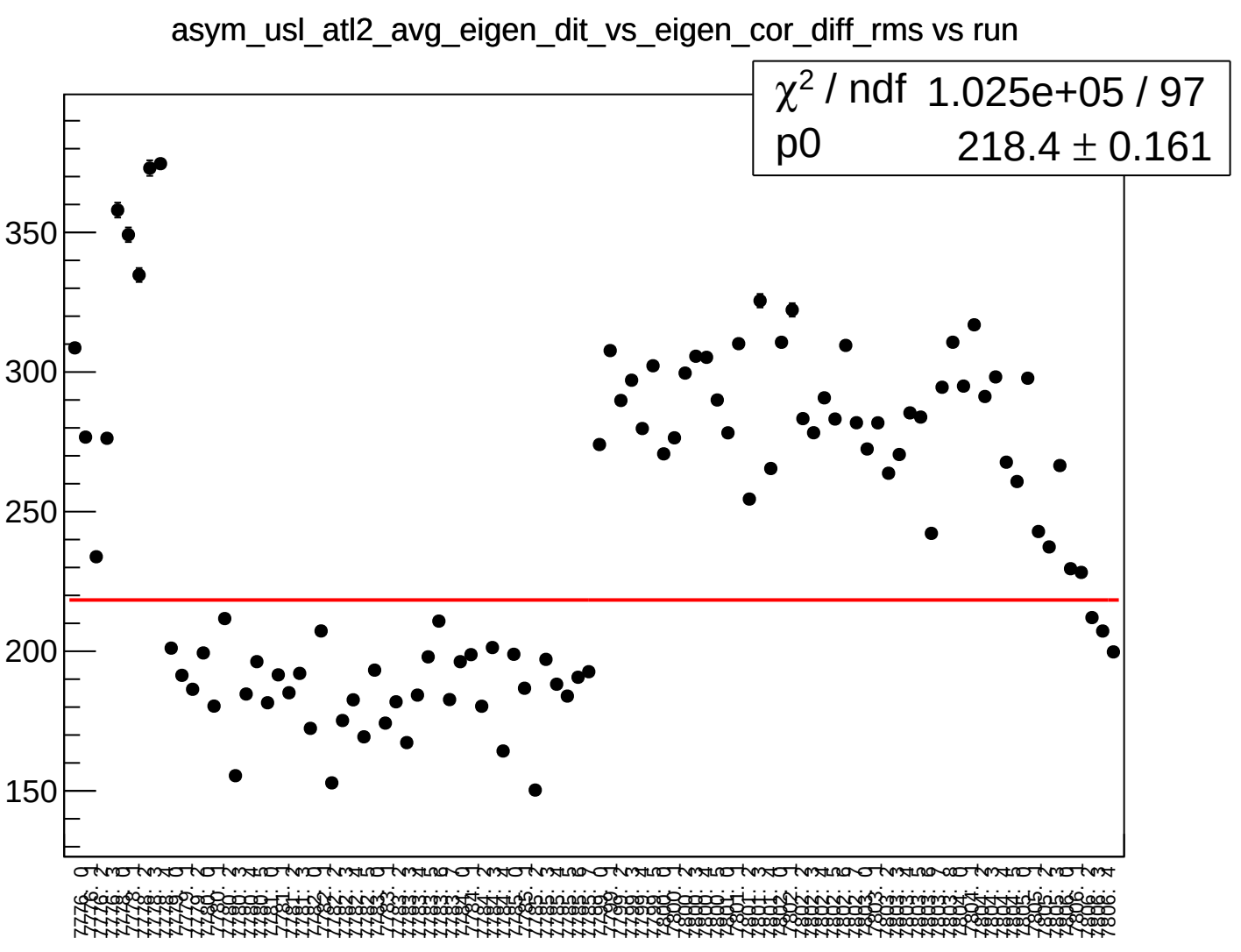

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.22 / 97
p0 −0.1953 ± 0.2276
pull
Entries 98
Mean 419.9
Std Dev 0

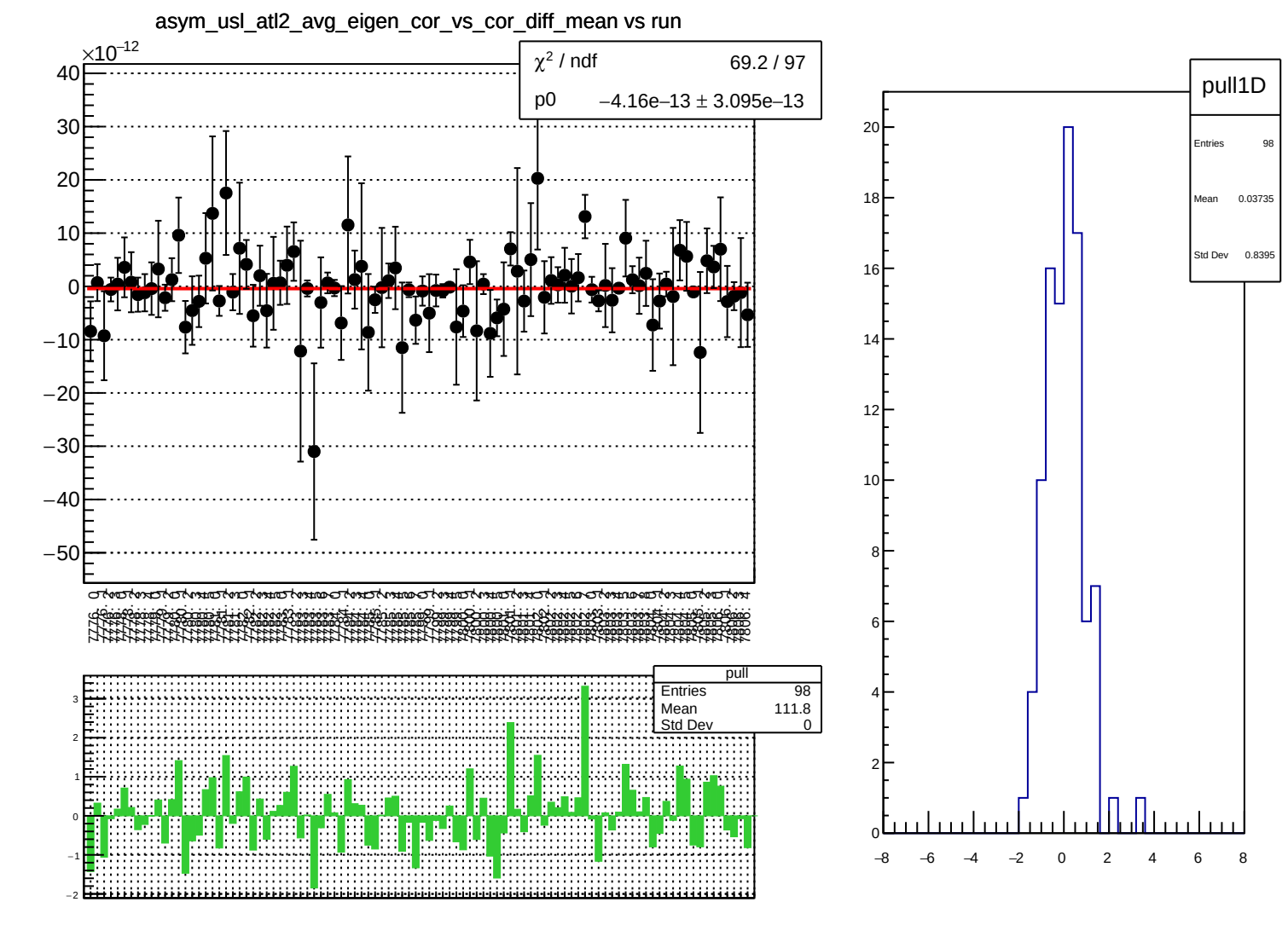

pull1D
Entries 98
Mean 0.01687
Std Dev 0.8642

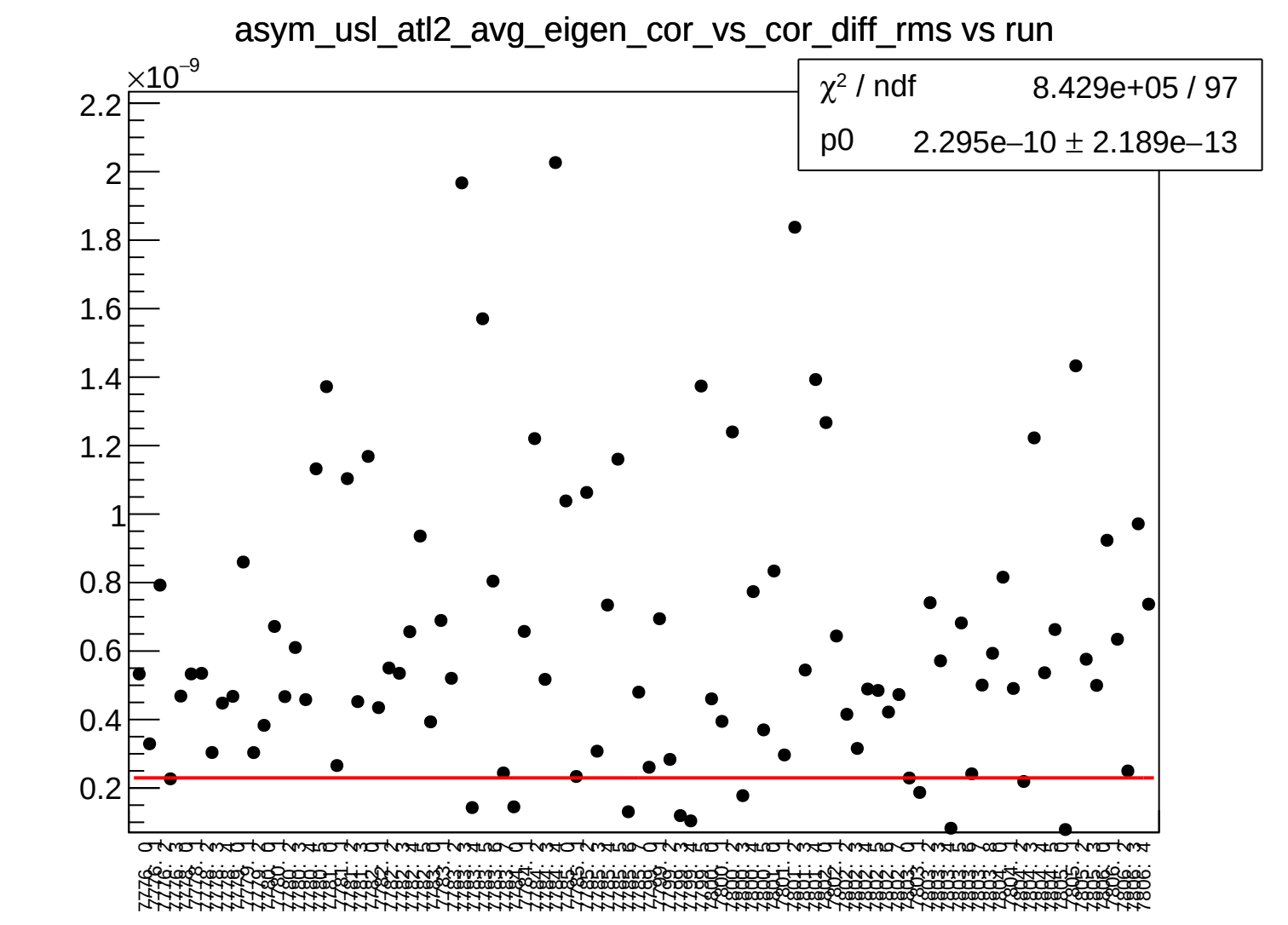

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 97
p0 218.4 ± 0.161
350
300
250
200
150

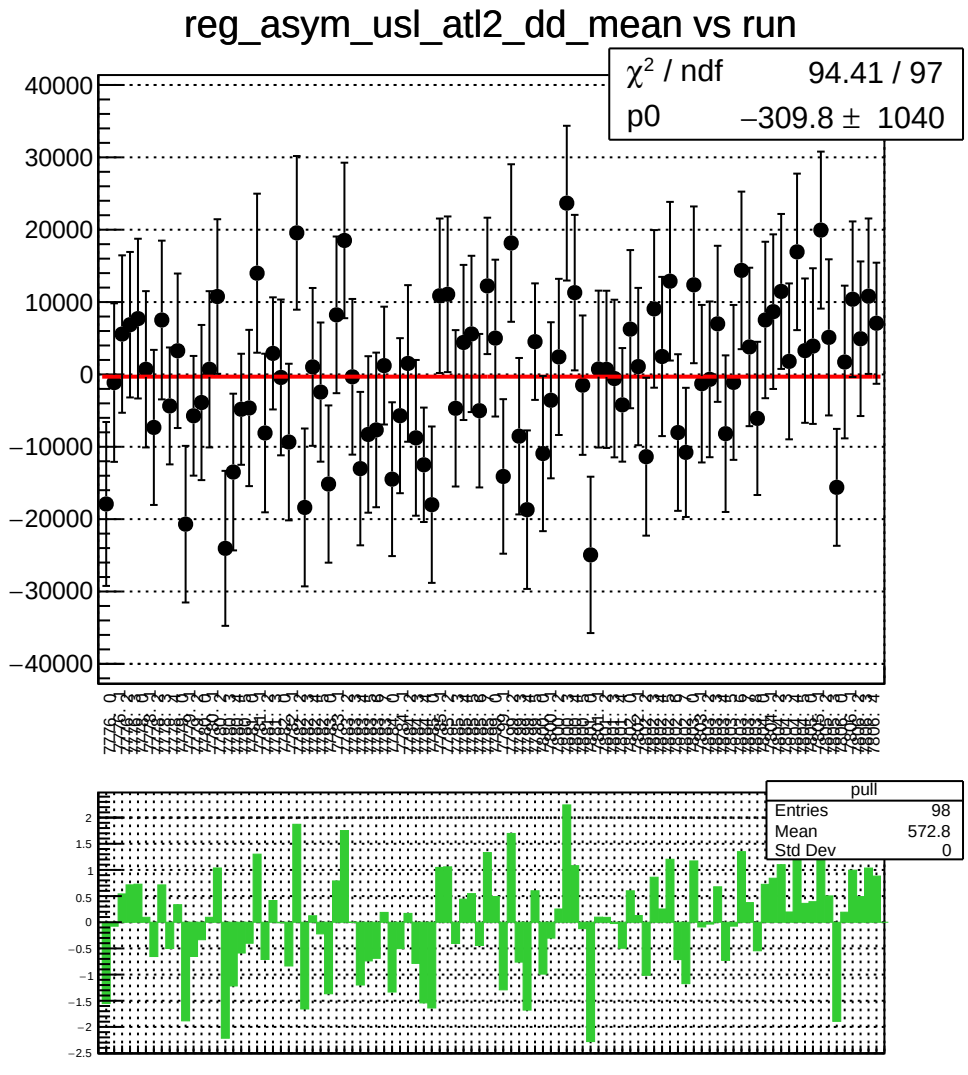

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.22 / 97
p0 −0.1953 ± 0.2276
pull
Entries 98
Mean 419.9
Std Dev 0

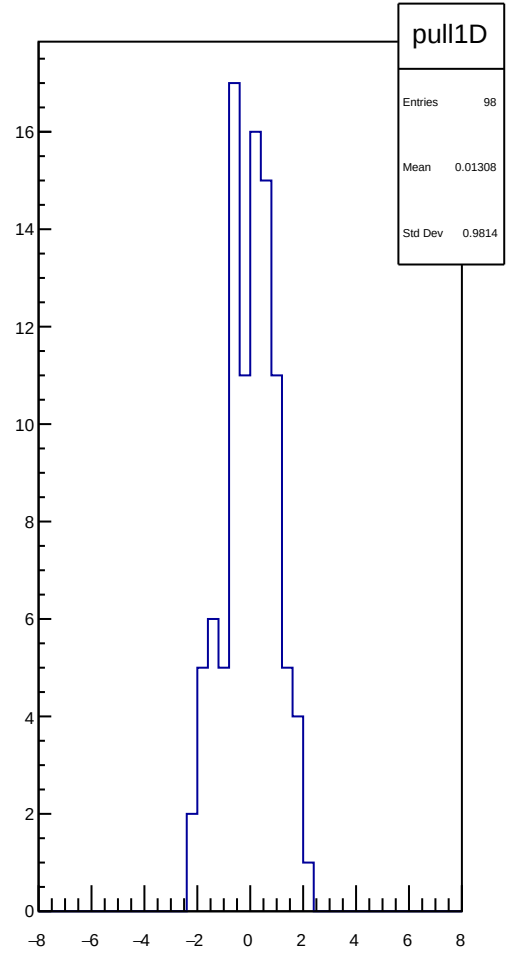

pull1D
Entries 98
Mean 0.01687
Std Dev 0.8642

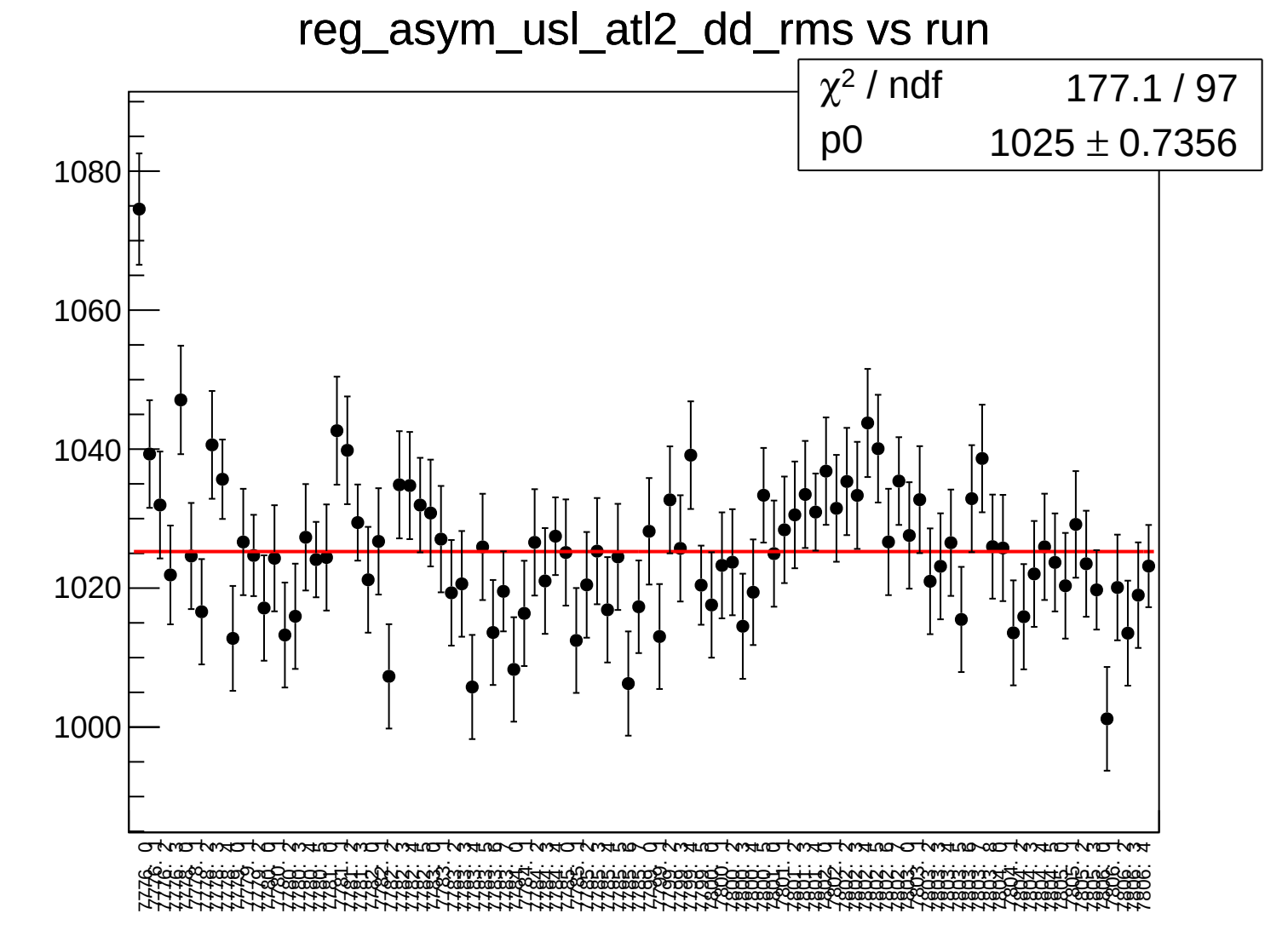

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 97
p0 218.4 ± 0.161
350
300
250
200
150

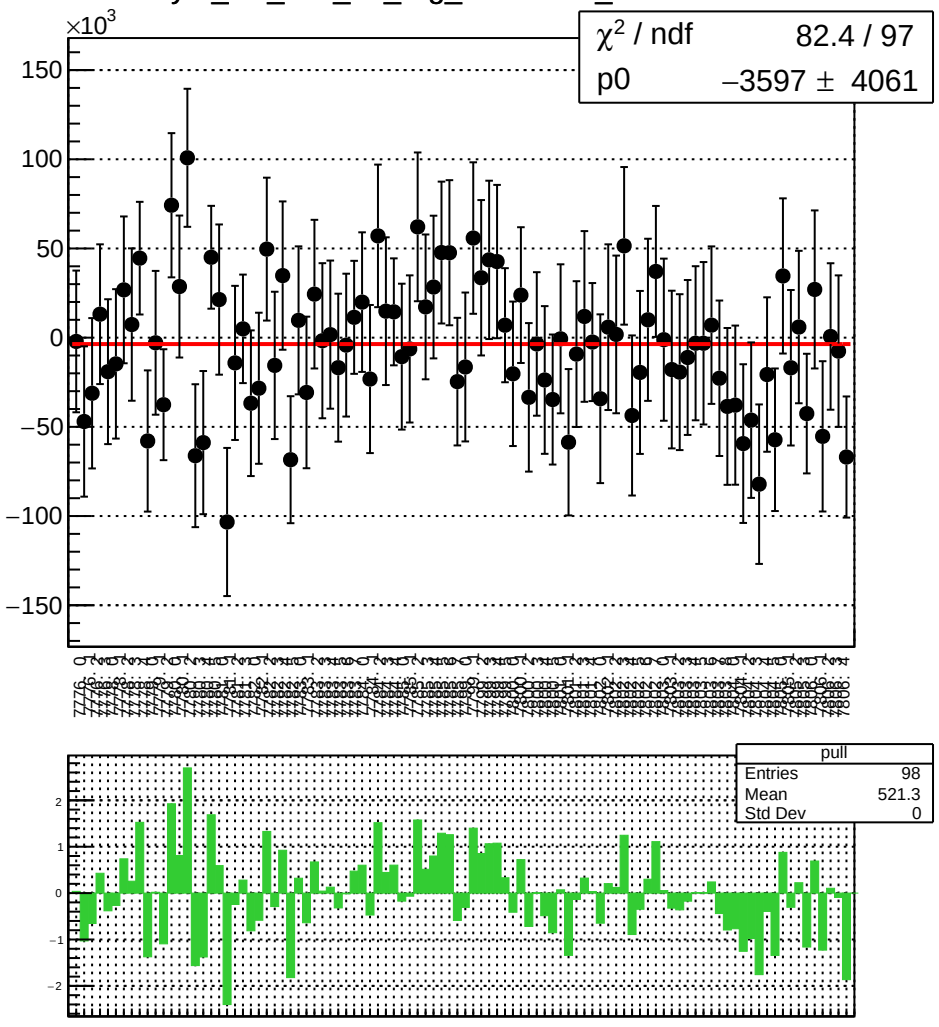

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.2 / 97
p0 −4.16e−13 ± 3.095e−13
pull
Entries 98
Mean 111.8
Std Dev 0
pull1D
Entries 98
Mean 0.03735
Std Dev 0.8395

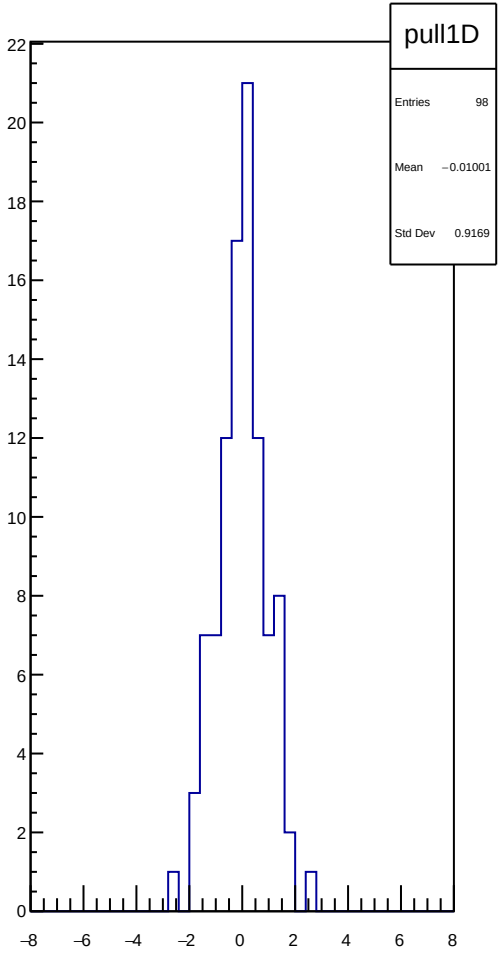

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.429e+05 / 97
p0 2.295e−10 ± 2.189e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

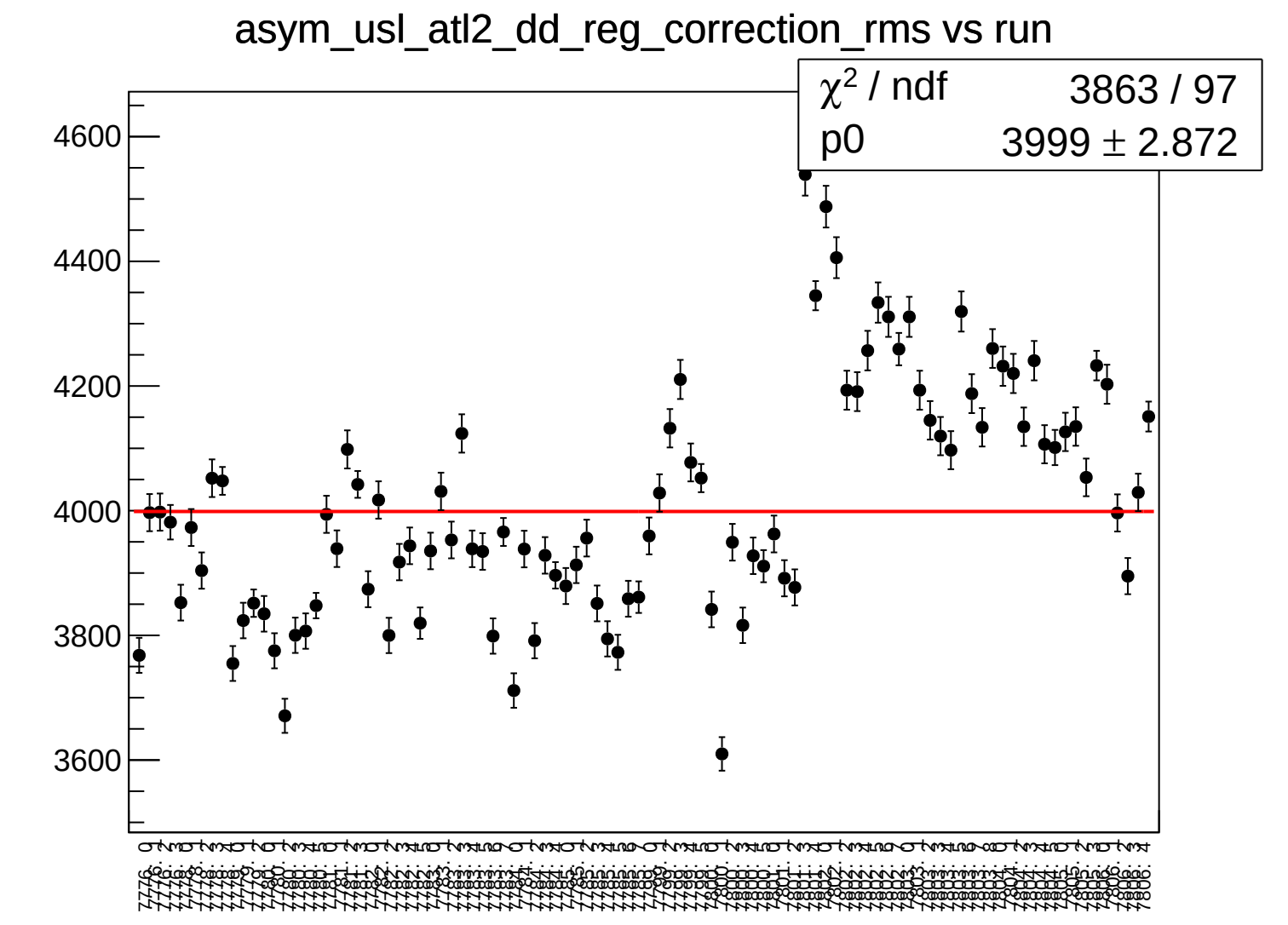

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.41 / 97
p0 −309.8 ± 1040
pull
Entries 98
Mean 572.8
Std Dev 0

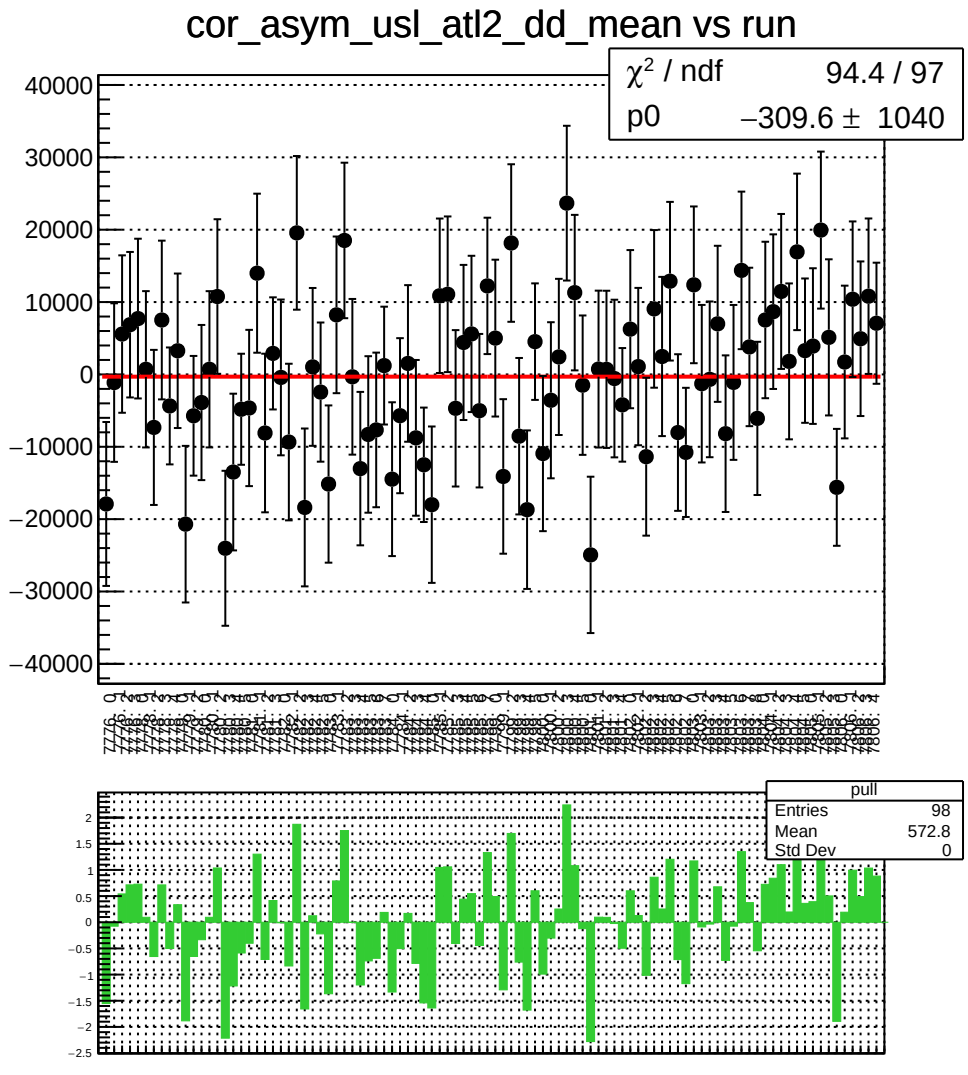

pull1D
Entries 98
Mean 0.01308
Std Dev 0.9814

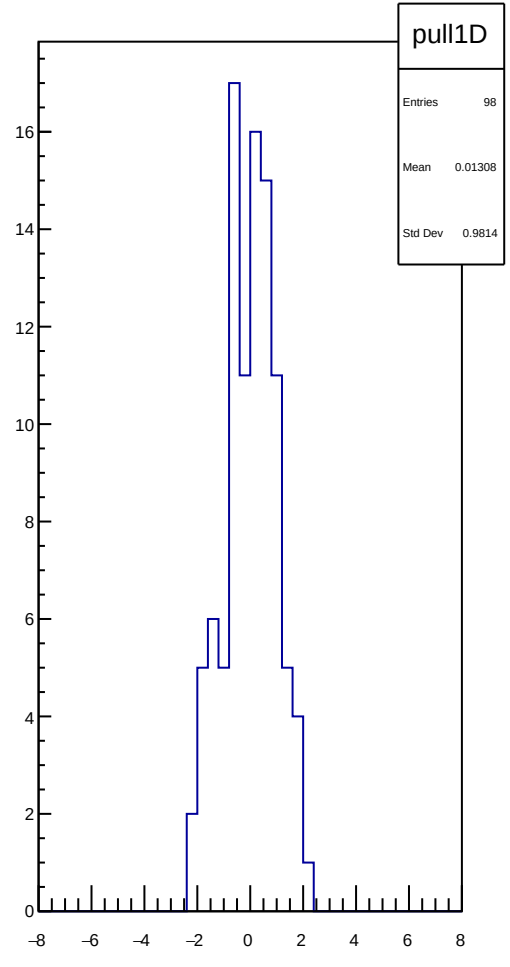

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 177.1 / 97
p0 1025 ± 0.7356
1080
1060
1040
1020
1000

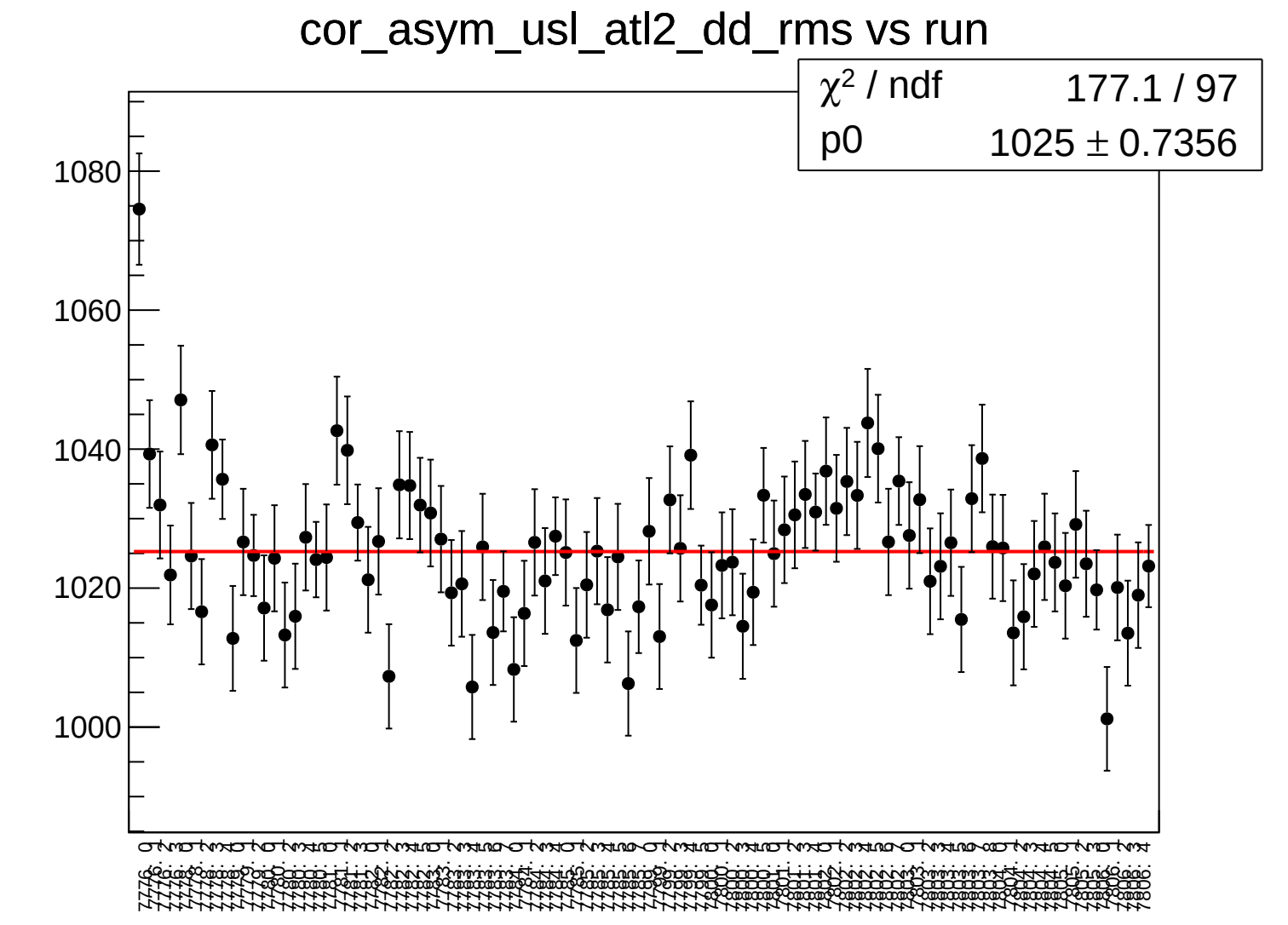

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.4 / 97
p0 −3597 ± 4061
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 521.3
Std Dev 0
2
1
0
−1
−2

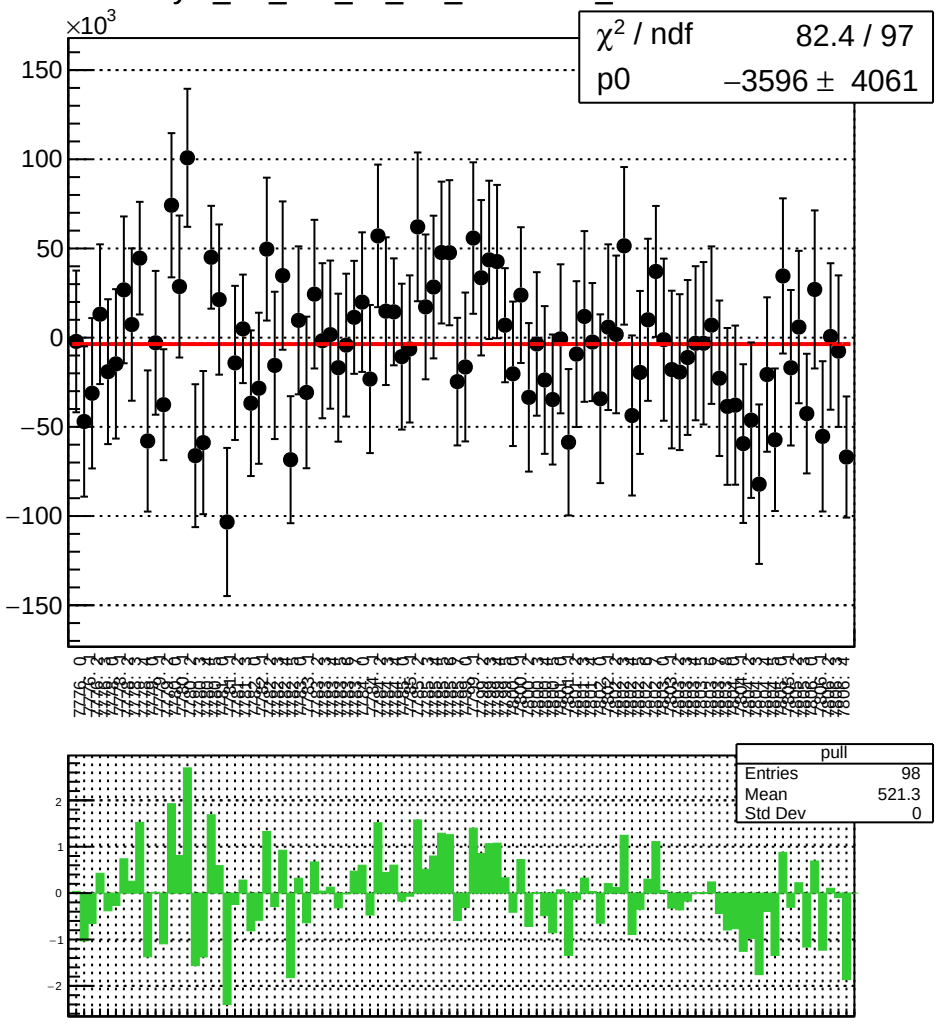

pull1D
Entries 98
Mean −0.01001
Std Dev 0.9169
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

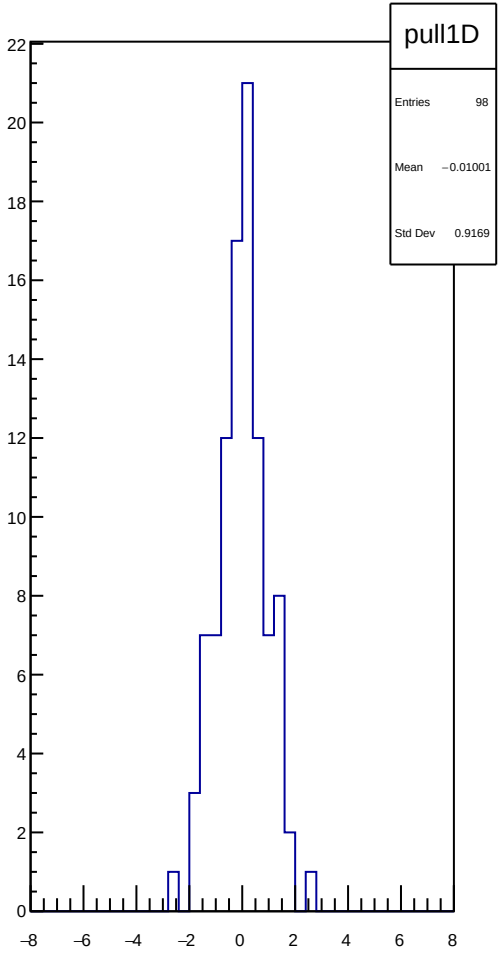

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 3863 / 97
p0 3999 ± 2.872
4600
4400
4200
4000
3800
3600

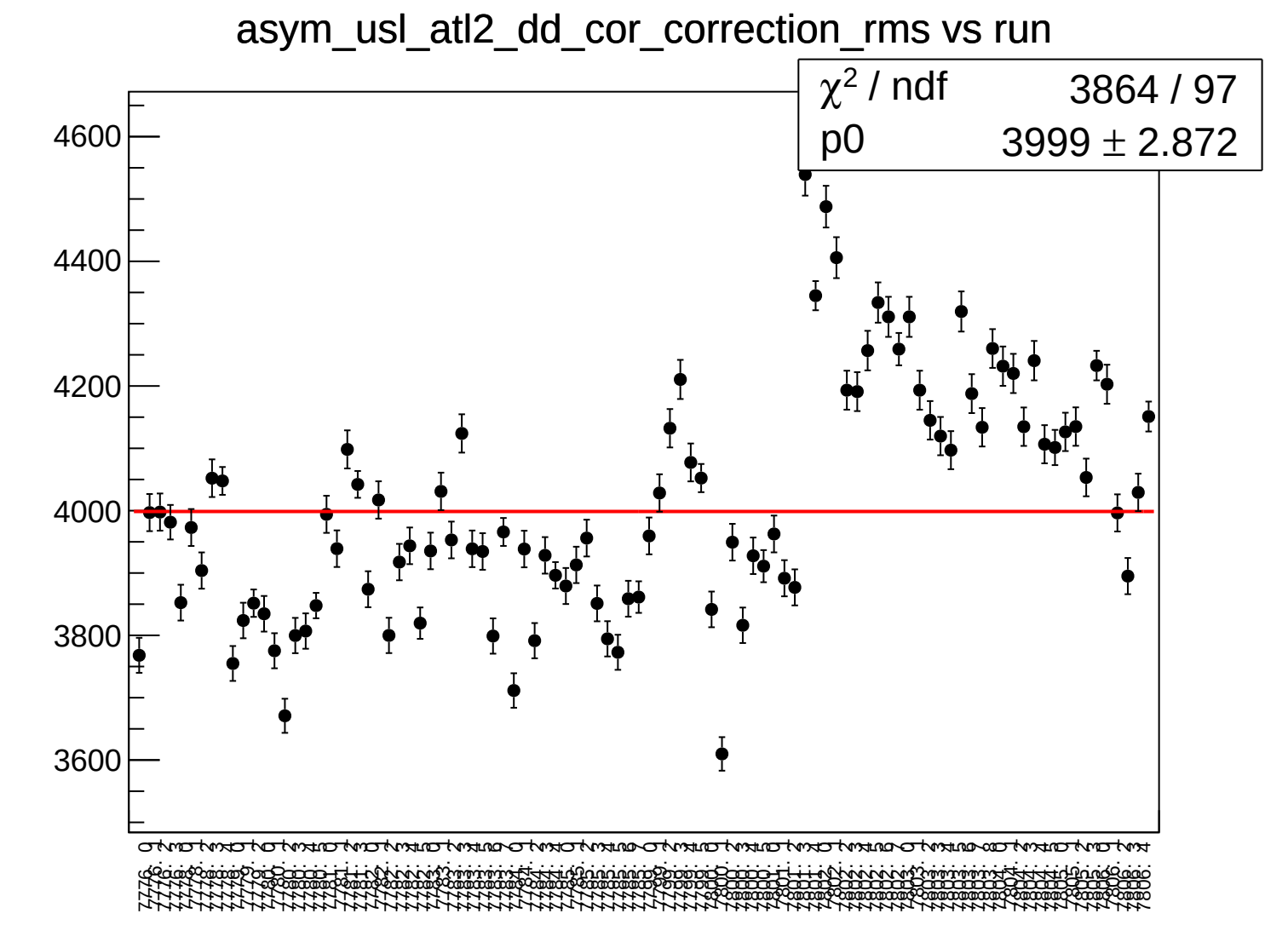

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.4 / 97
p0 −309.6 ± 1040
pull
Entries 98
Mean 572.8
Std Dev 0

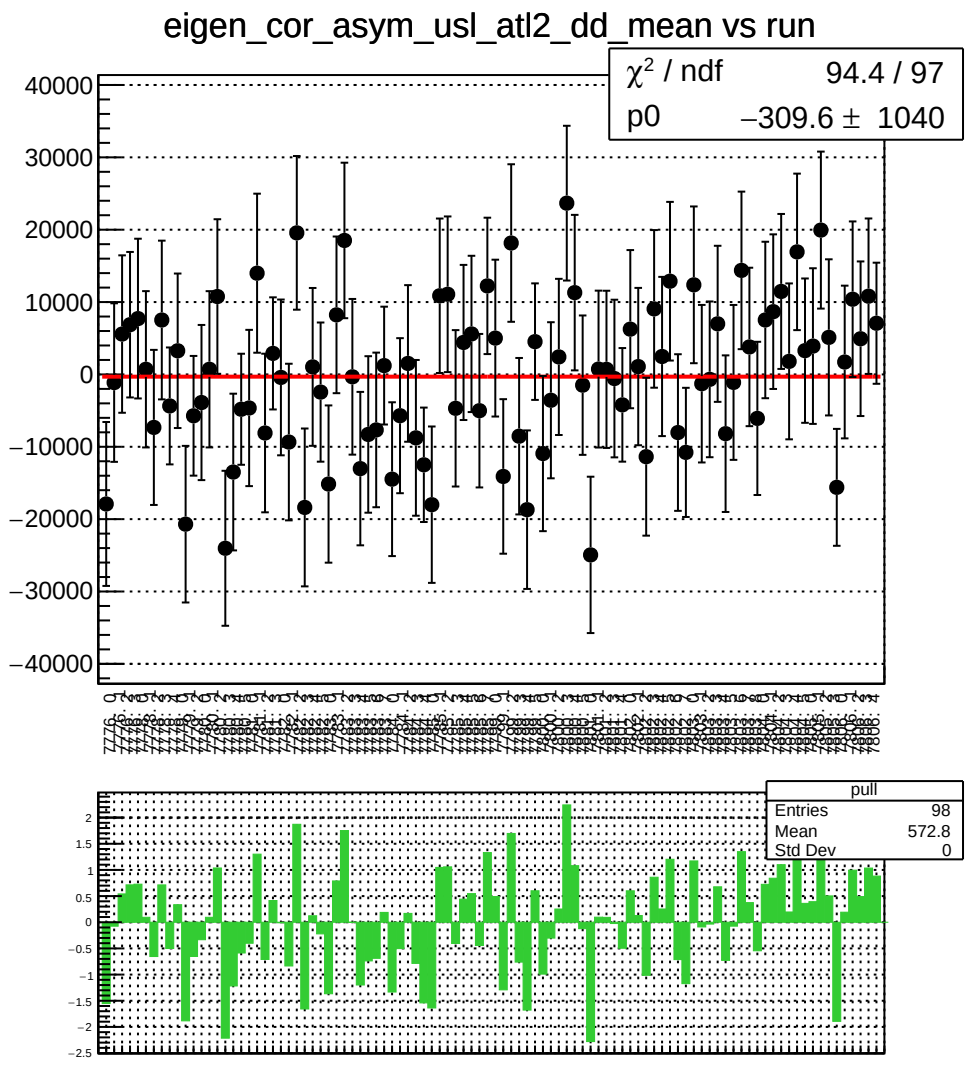

pull1D
Entries 98
Mean 0.01308
Std Dev 0.9814

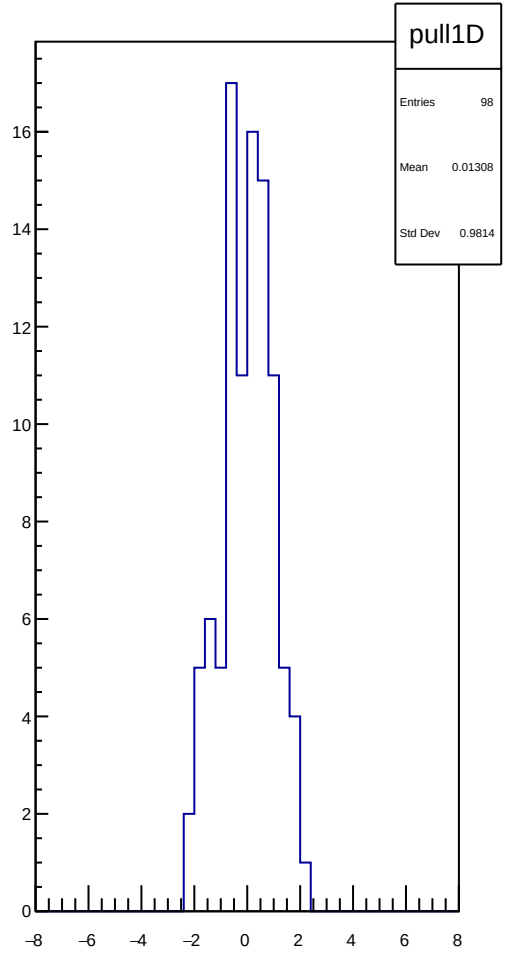

cor_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 177.1 / 97
p0 1025 ± 0.7356
1080
1060
1040
1020
1000

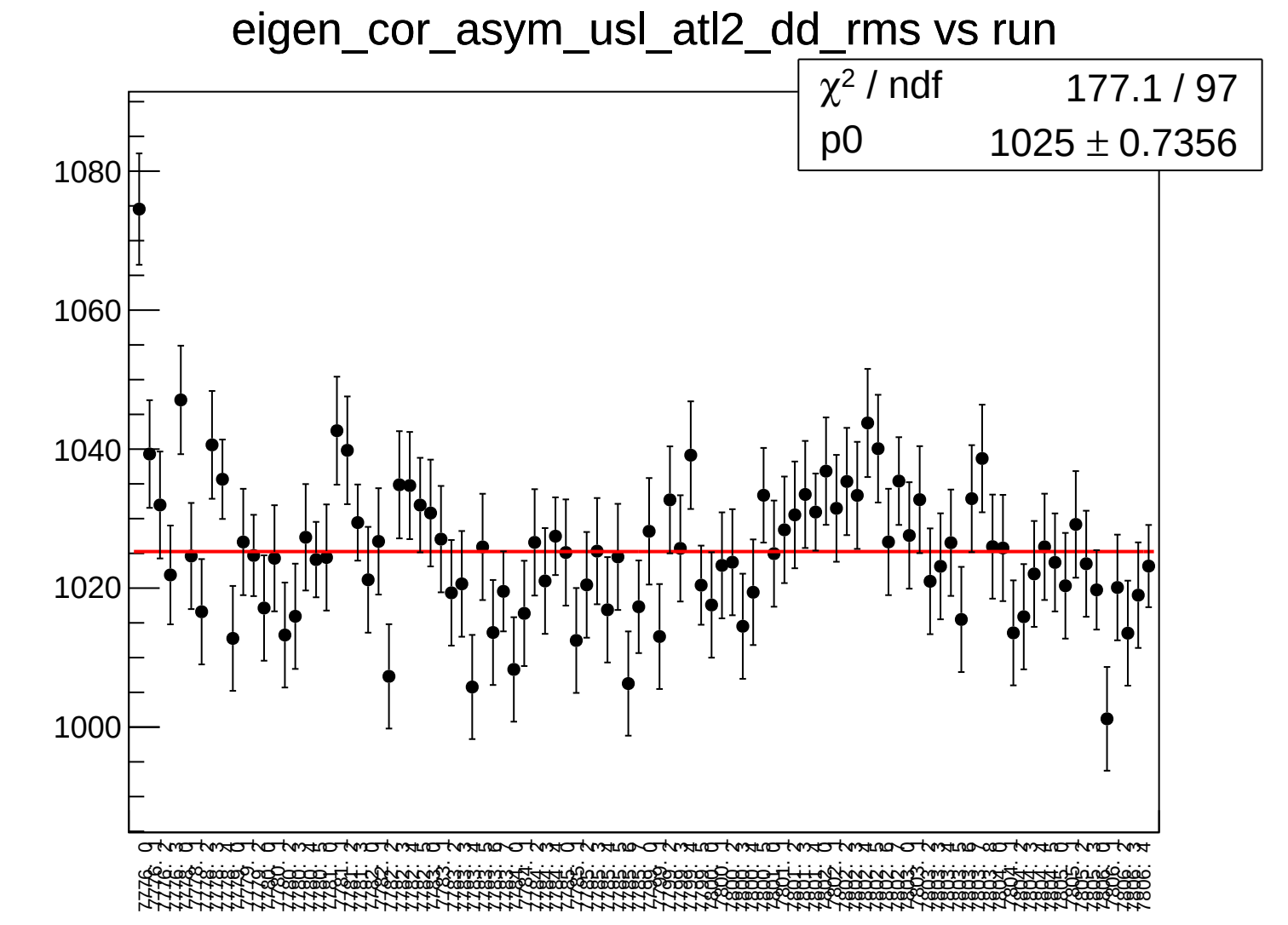

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.4 / 97
p0 −3596 ± 4061
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 521.3
Std Dev 0
2
1
0
−1
−2

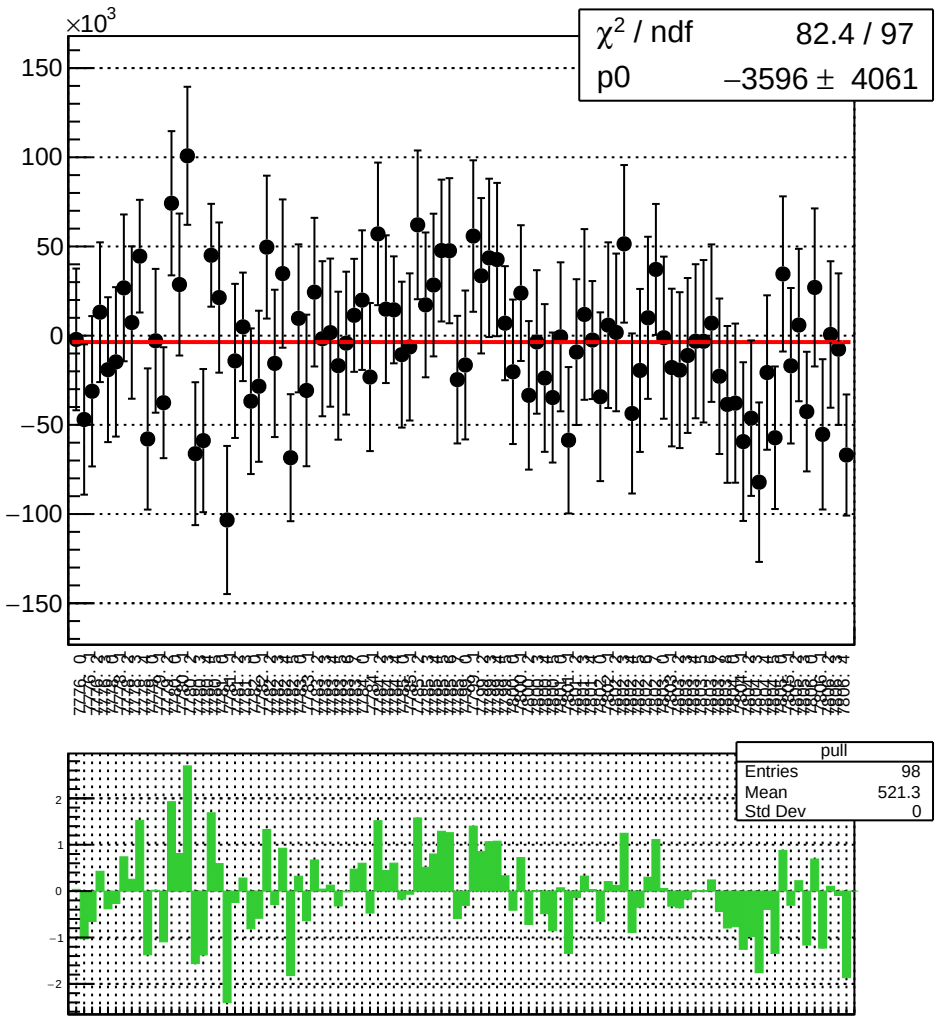

pull1D
Entries 98
Mean −0.01001
Std Dev 0.9169
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

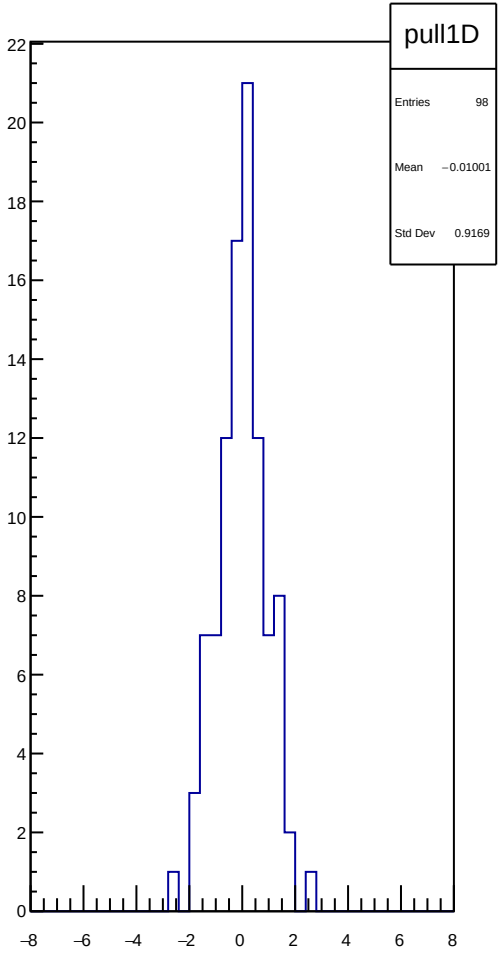

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 3864 / 97
p0 3999 ± 2.872
4600
4400
4200
4000
3800
3600

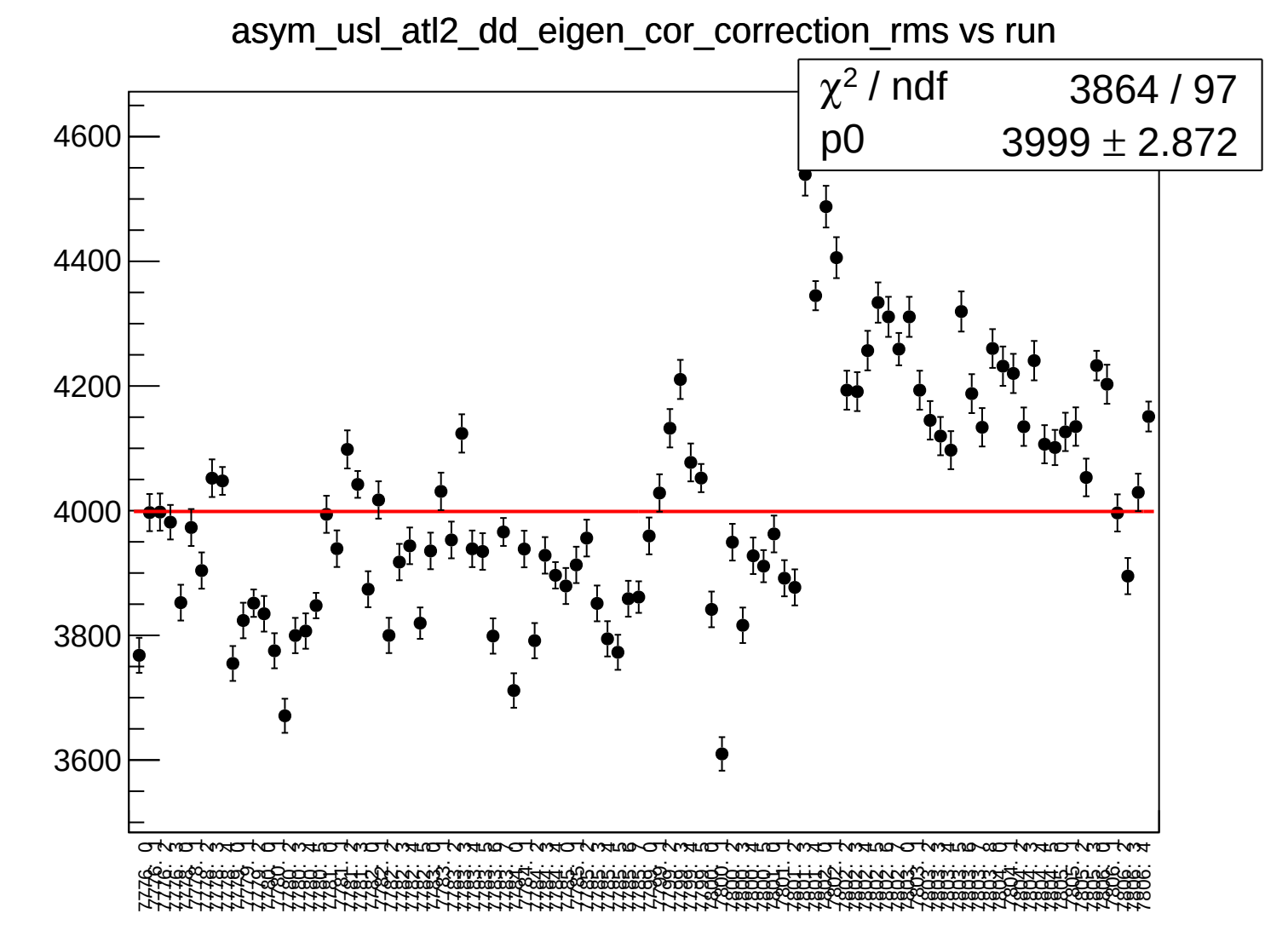

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.4 / 97
p0 −309.6 ± 1040
pull
Entries 98
Mean 572.8
Std Dev 0

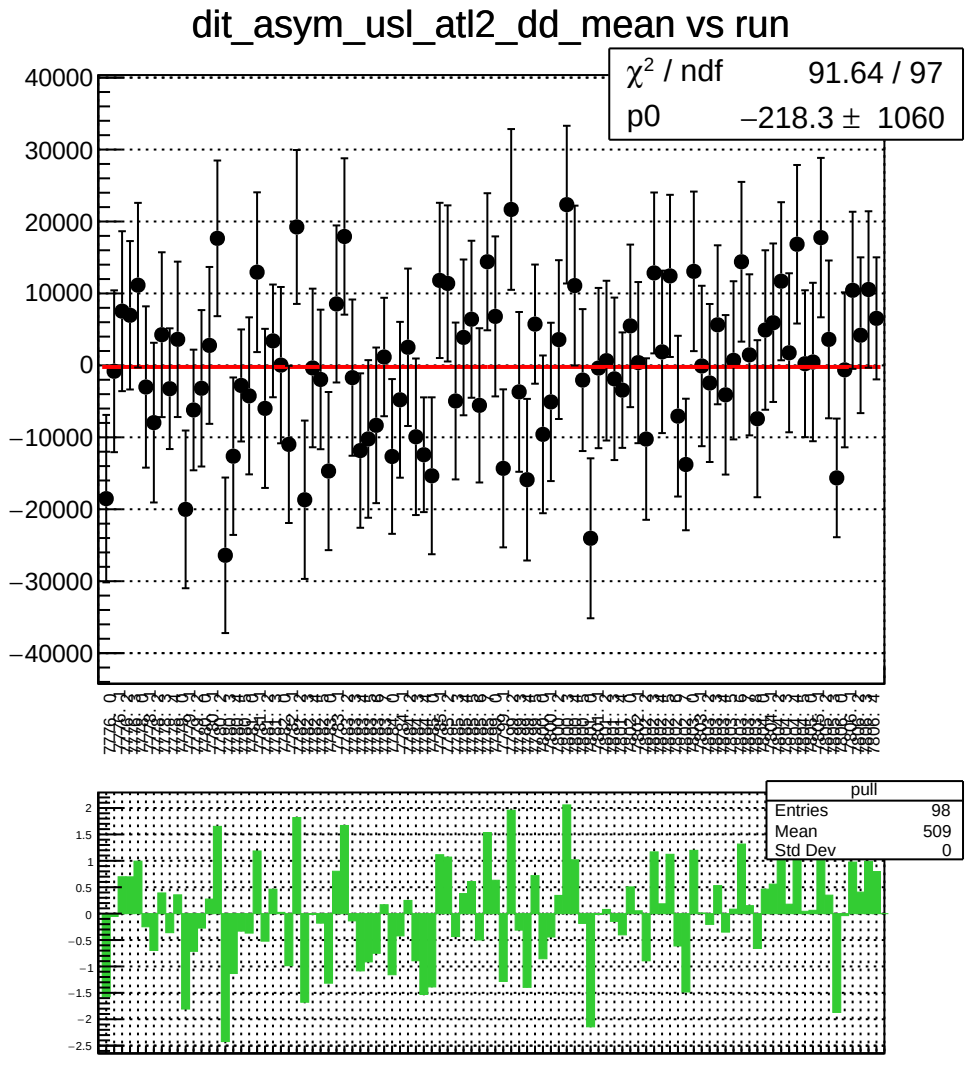

pull1D
Entries 98
Mean 0.01308
Std Dev 0.9814

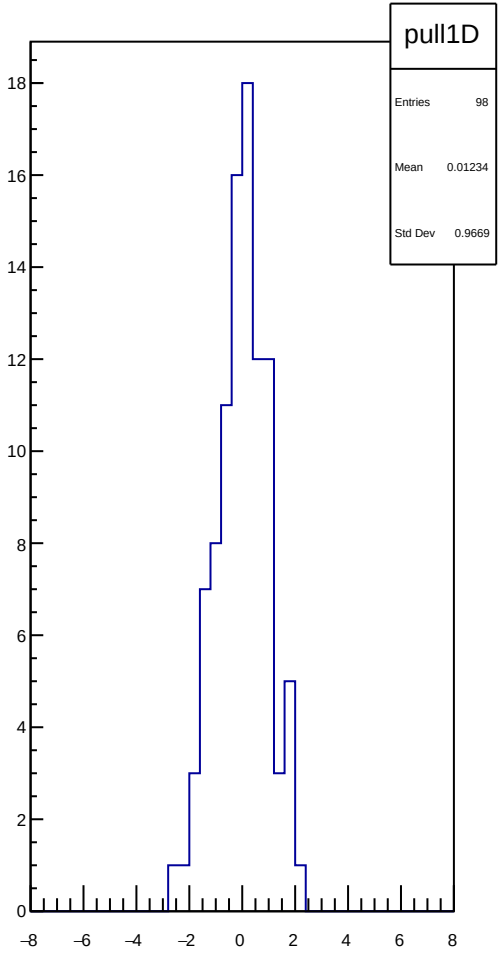

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 177.1 / 97
p0 1025 ± 0.7356
1080
1060
1040
1020
1000

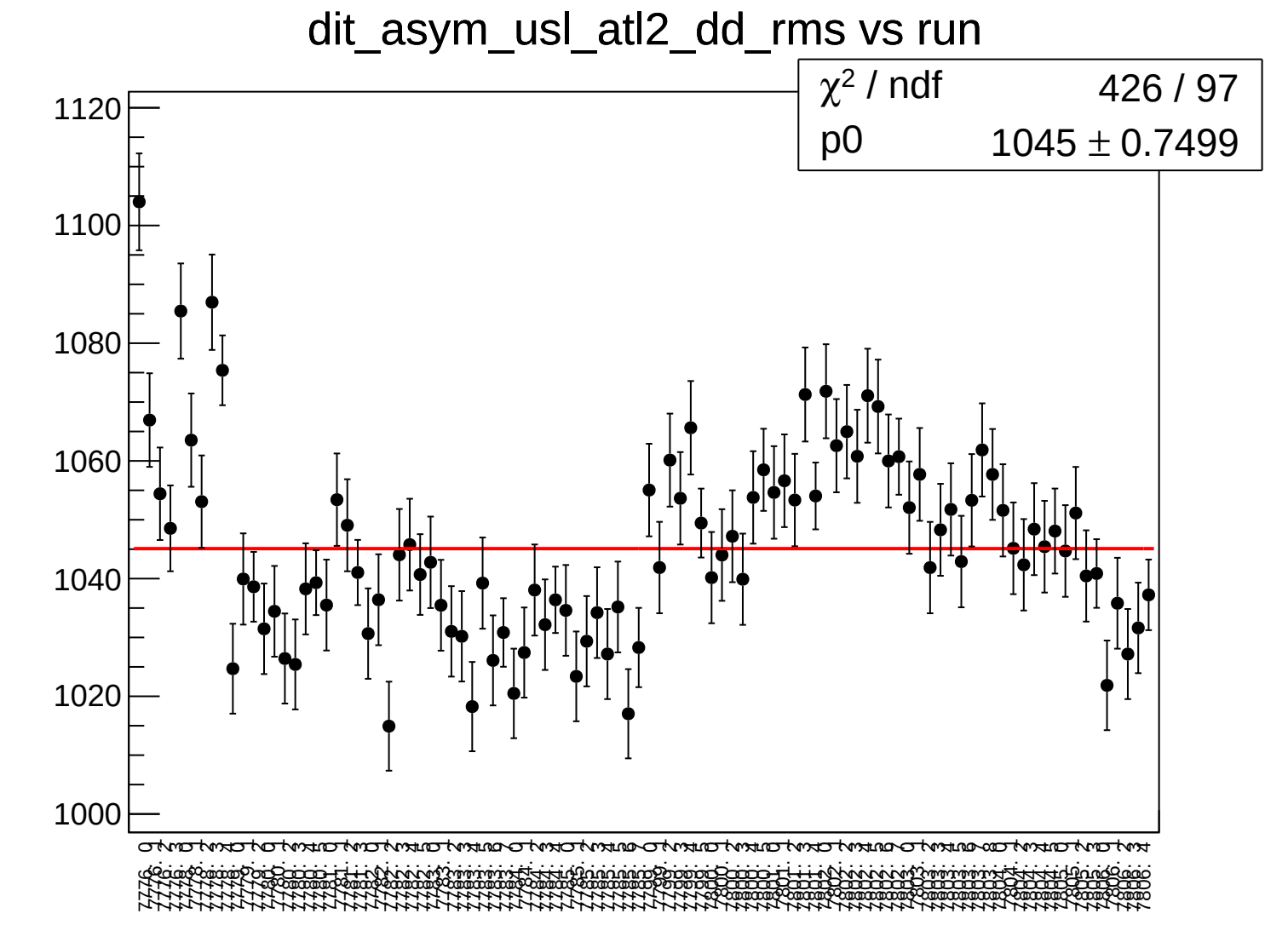

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.4 / 97
p0 −3596 ± 4061
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 521.3
Std Dev 0
2
1
0
−1
−2

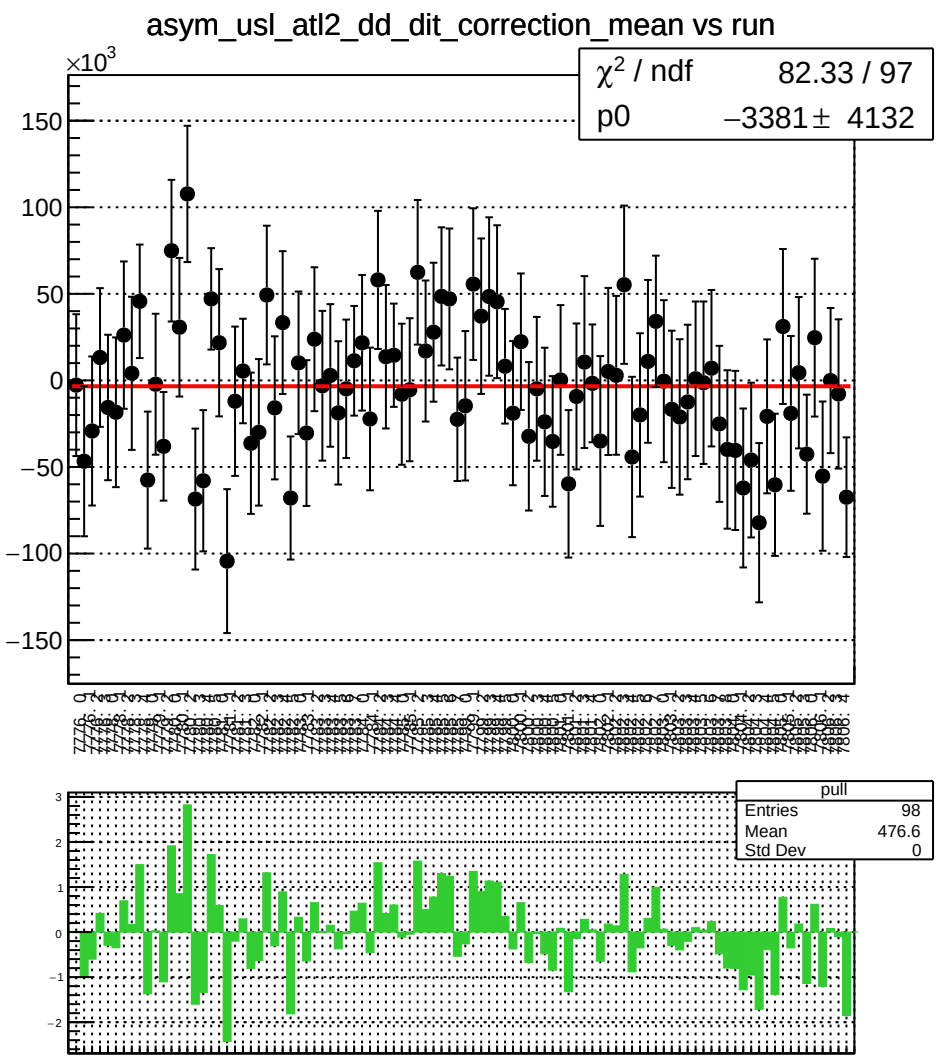

pull1D
Entries 98
Mean −0.01001
Std Dev 0.9169
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

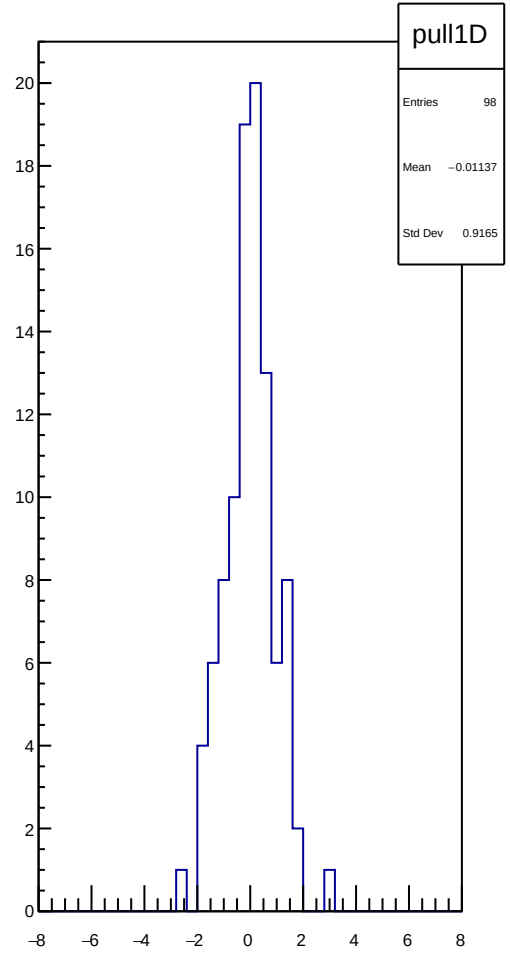

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3864 / 97
p0 3999 ± 2.872
4600
4400
4200
4000
3800
3600

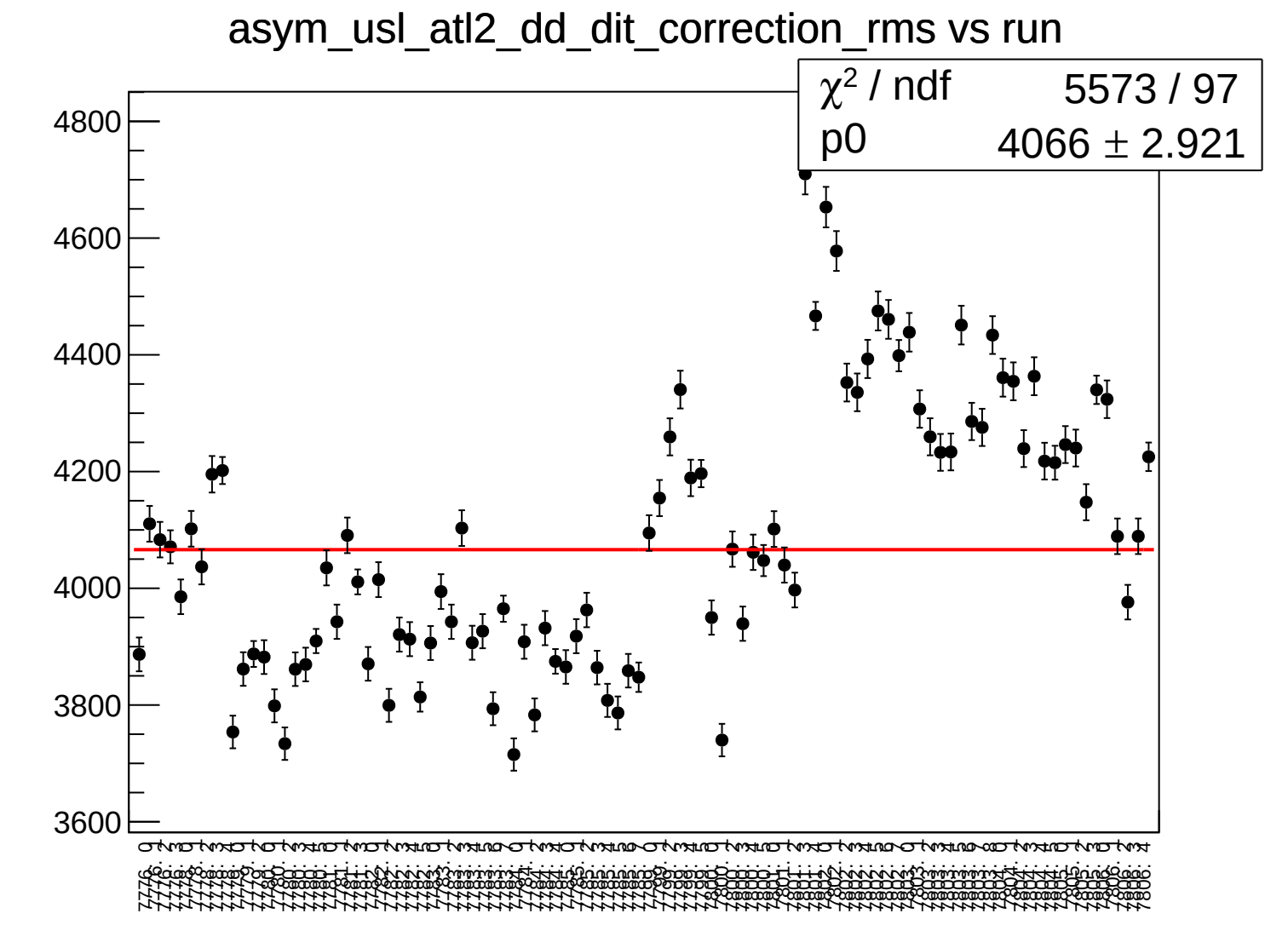

dit_asym_usl_atl2_dd_mean vs run
χ^2 / ndf 91.64 / 97
p0 −218.3 ± 1060
pull
Entries 98
Mean 509
Std Dev 0

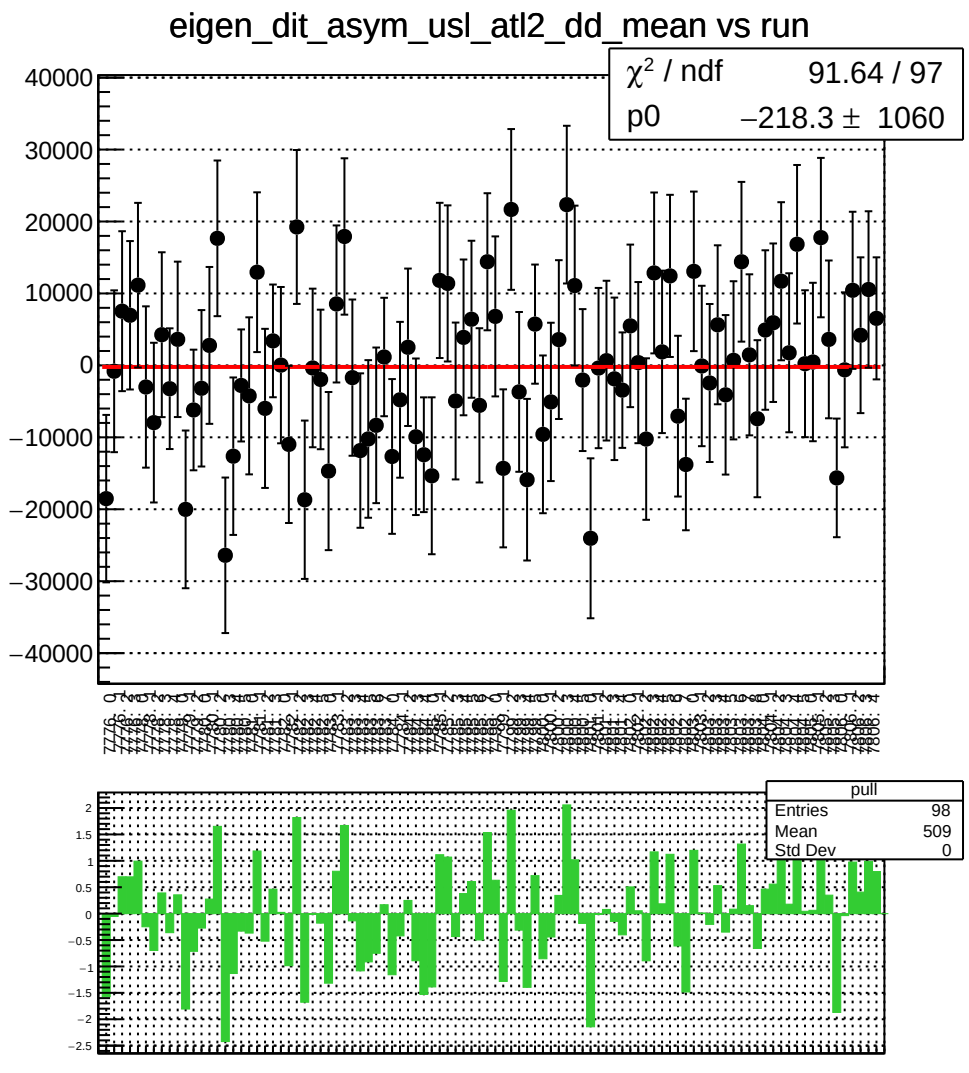

pull1D
Entries 98
Mean 0.01234
Std Dev 0.9669

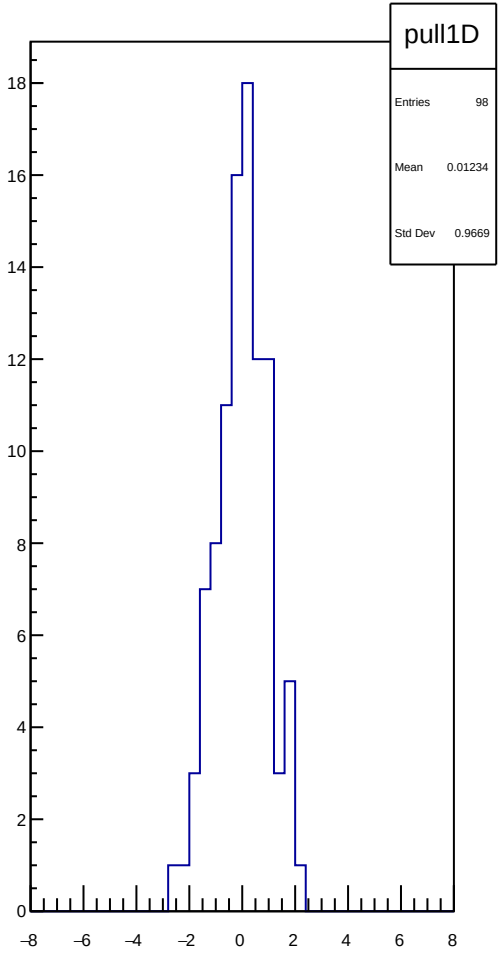

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 426 / 97
p0 1045 ± 0.7499
1120
1100
1080
1060
1040
1020
1000

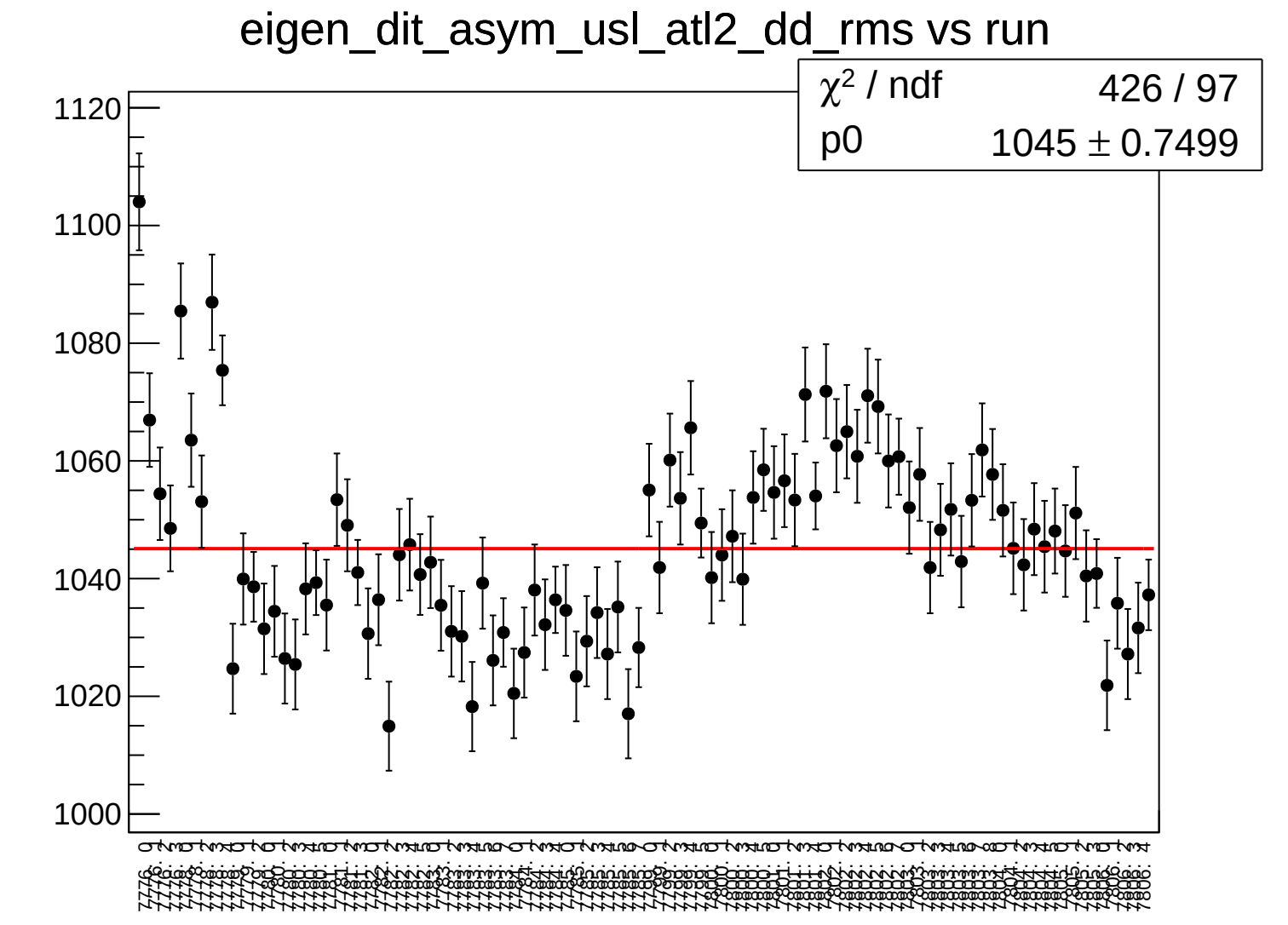

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.33 / 97
p0 −3381 ± 4132
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 476.6
Std Dev 0
3
2
1
0
−1
−2

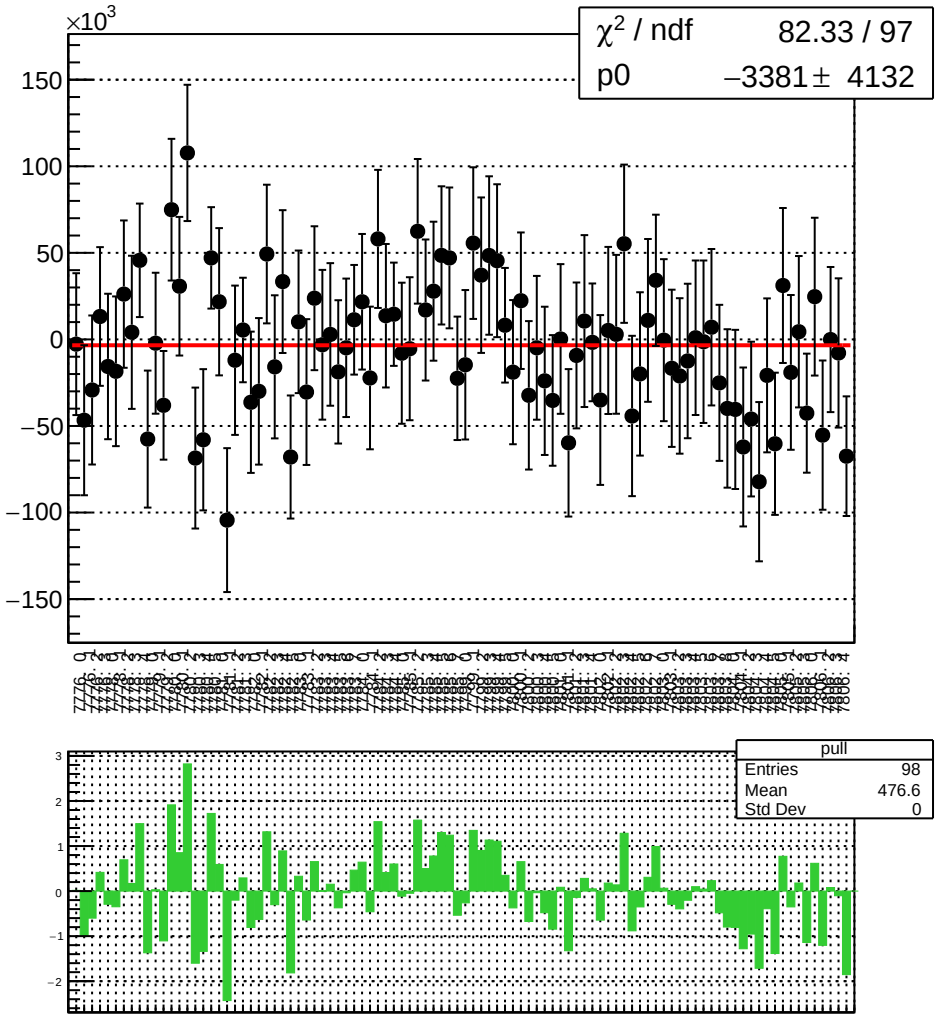

pull1D
Entries 98
Mean −0.01137
Std Dev 0.9165
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

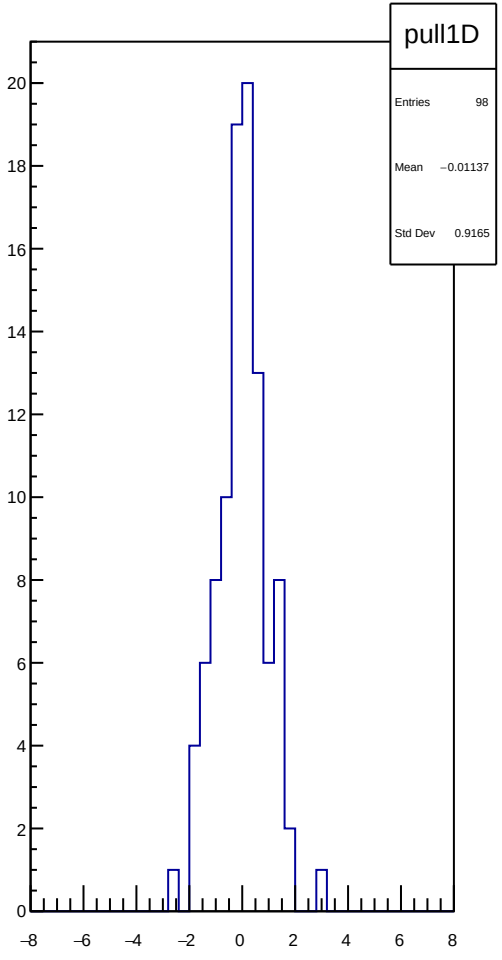

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 5573 / 97
p0 4066 ± 2.921
4800
4600
4400
4200
4000
3800
3600

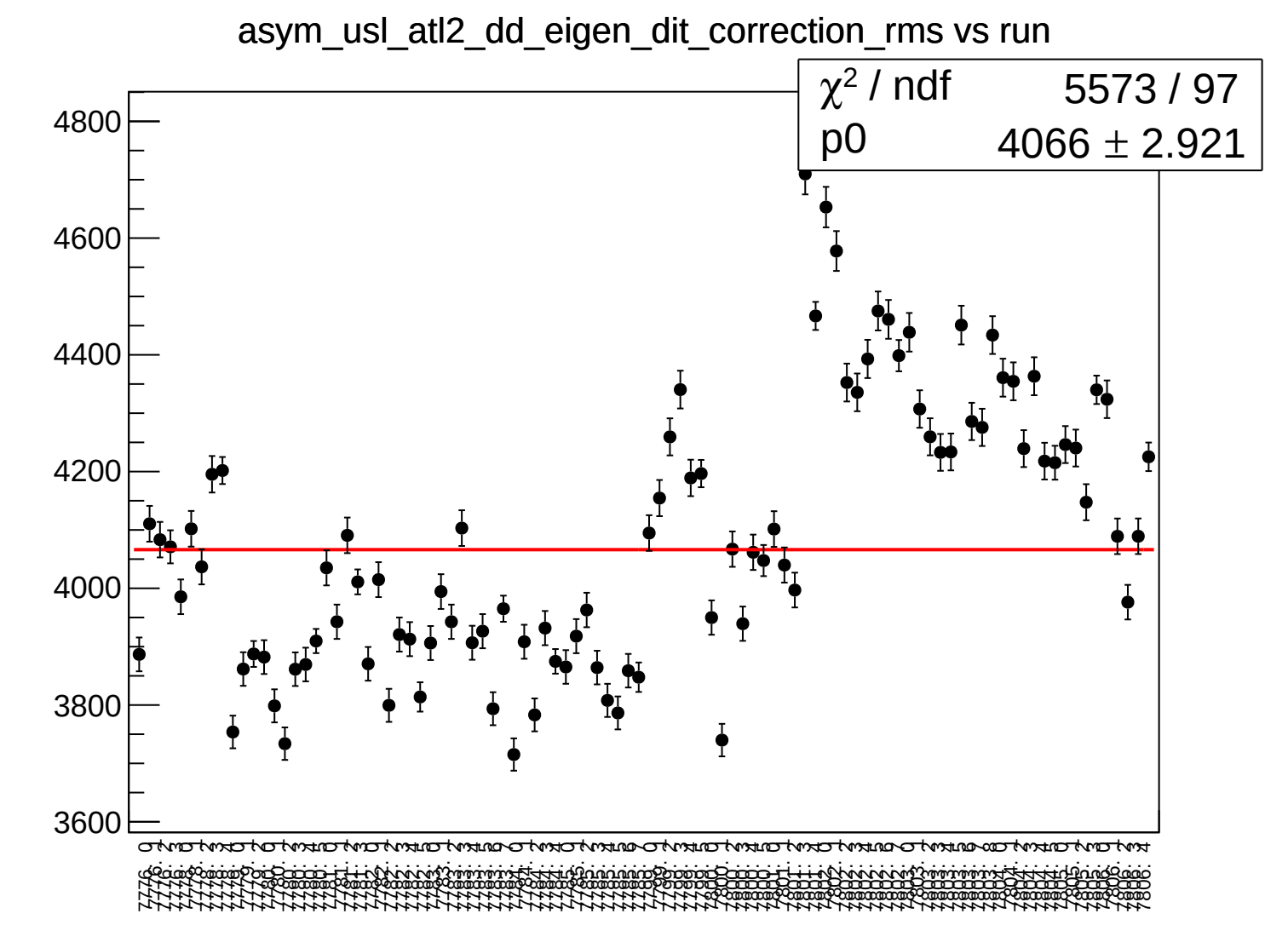

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 91.64 / 97
p0 −218.3 ± 1060
pull
Entries 98
Mean 509
Std Dev 0

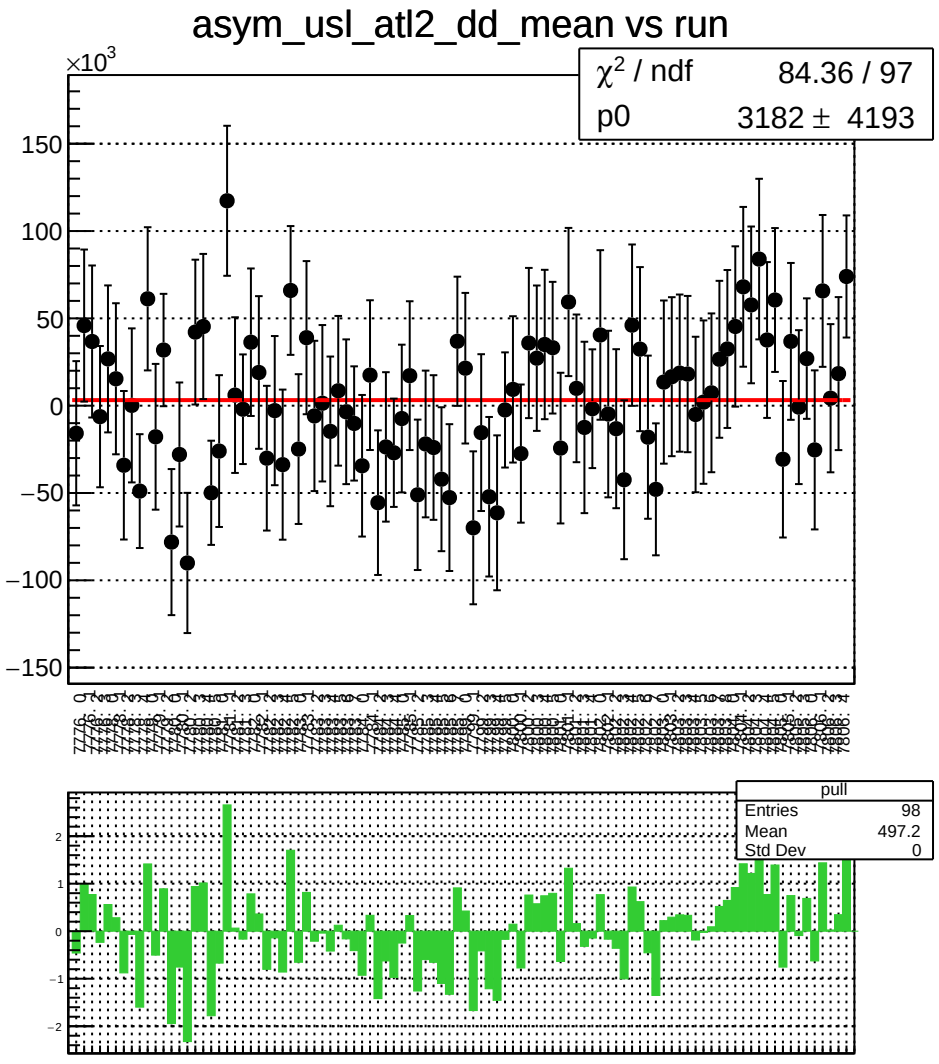

pull1D
Entries 98
Mean 0.01234
Std Dev 0.9669

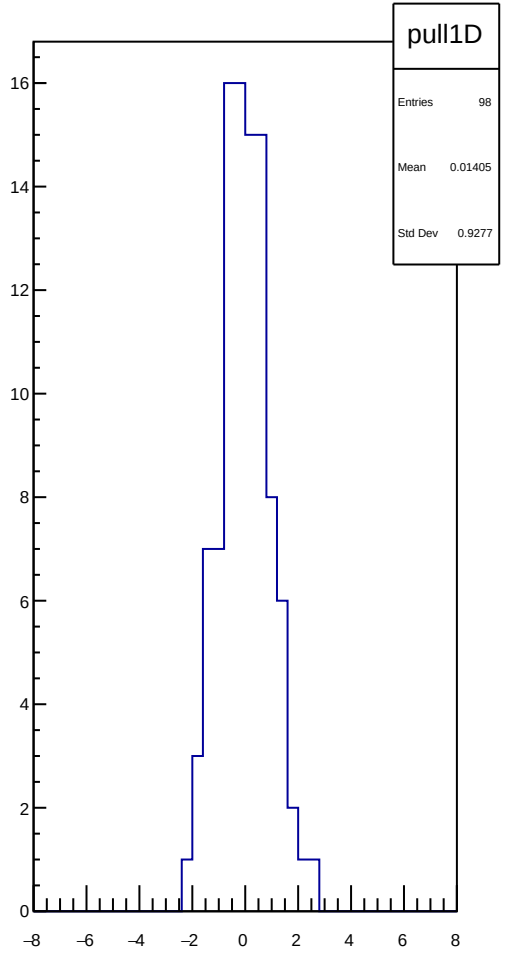

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 426 / 97
p0 1045 ± 0.7499
1120
1100
1080
1060
1040
1020
1000

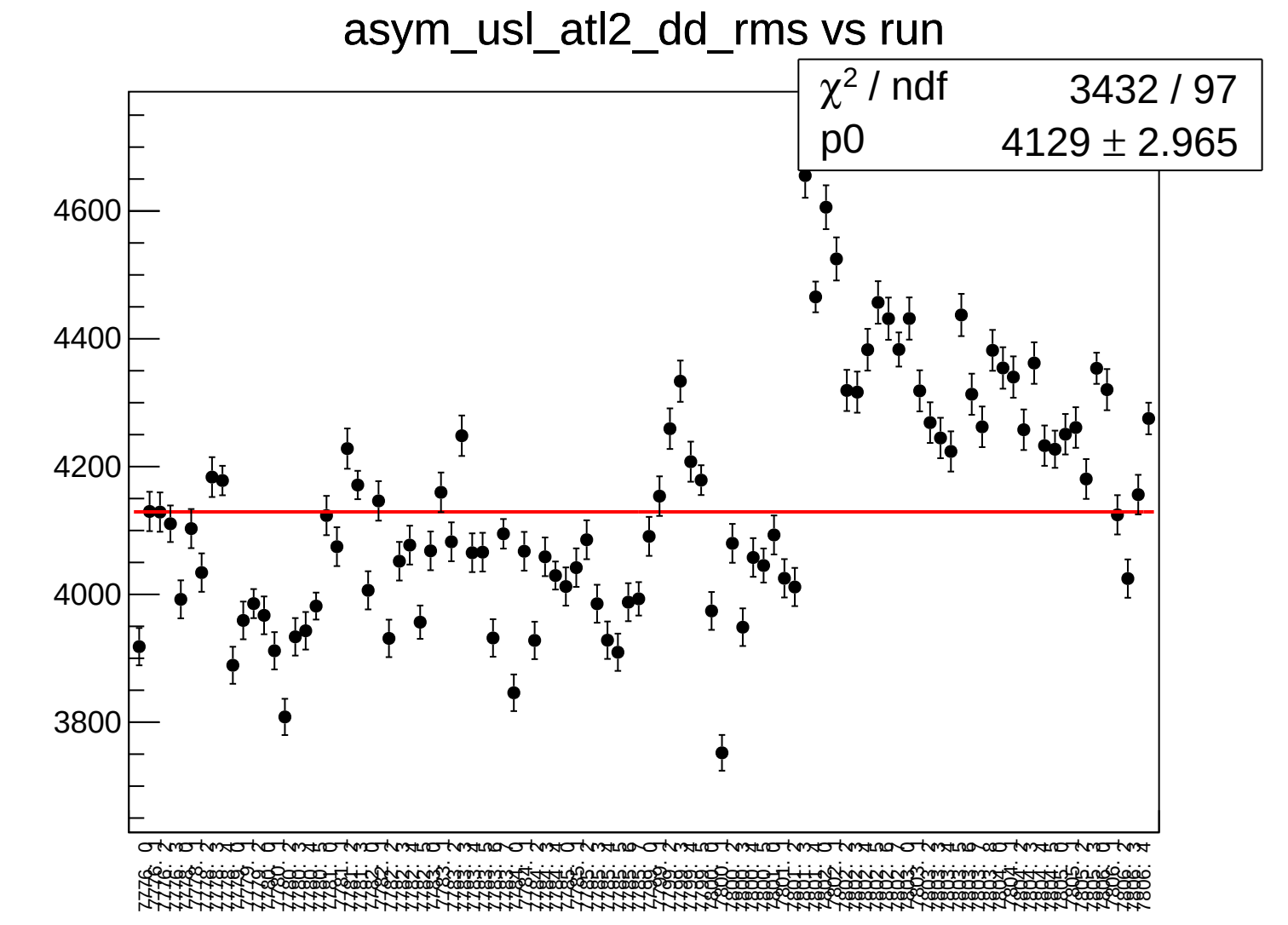

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.33 / 97
p0 −3381 ± 4132
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 476.6
Std Dev 0
3
2
1
0
−1
−2

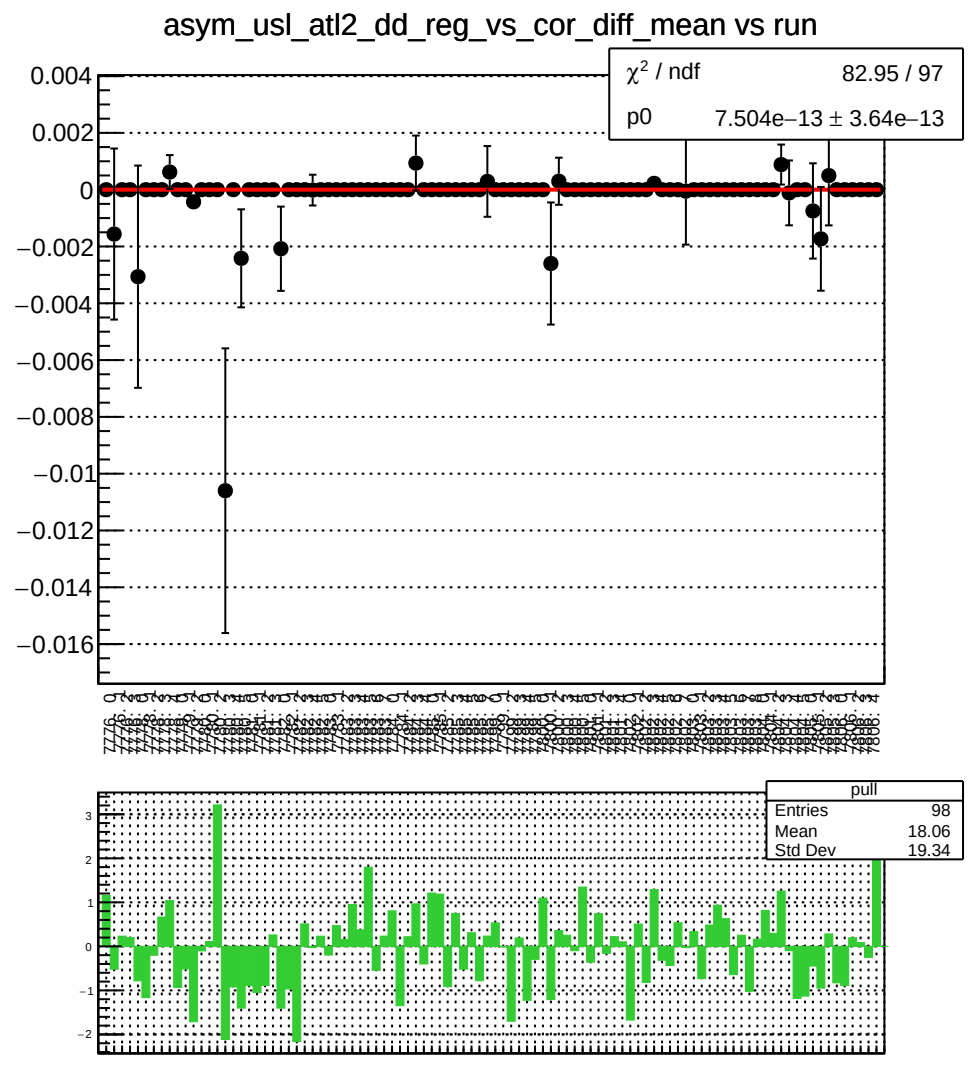

pull1D
Entries 98
Mean −0.01137
Std Dev 0.9165
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

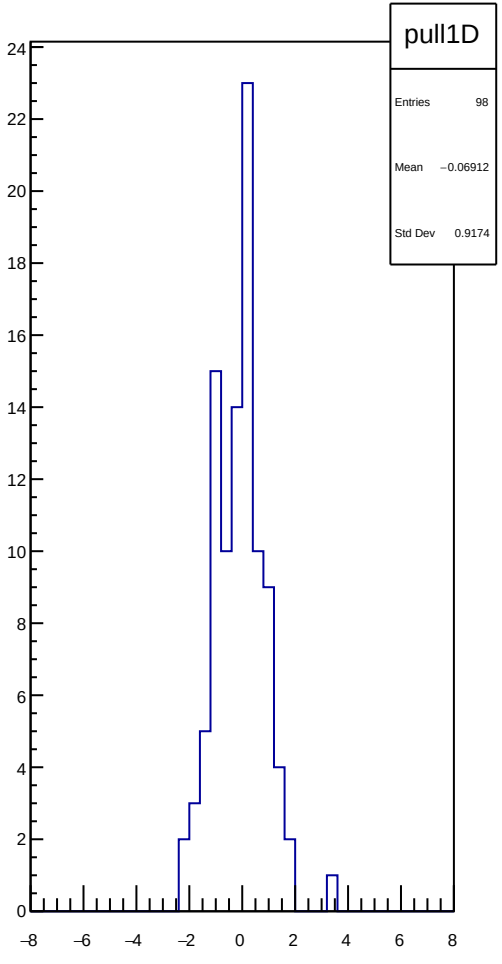

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5573 / 97
p0 4066 ± 2.921
4800
4600
4400
4200
4000
3800
3600

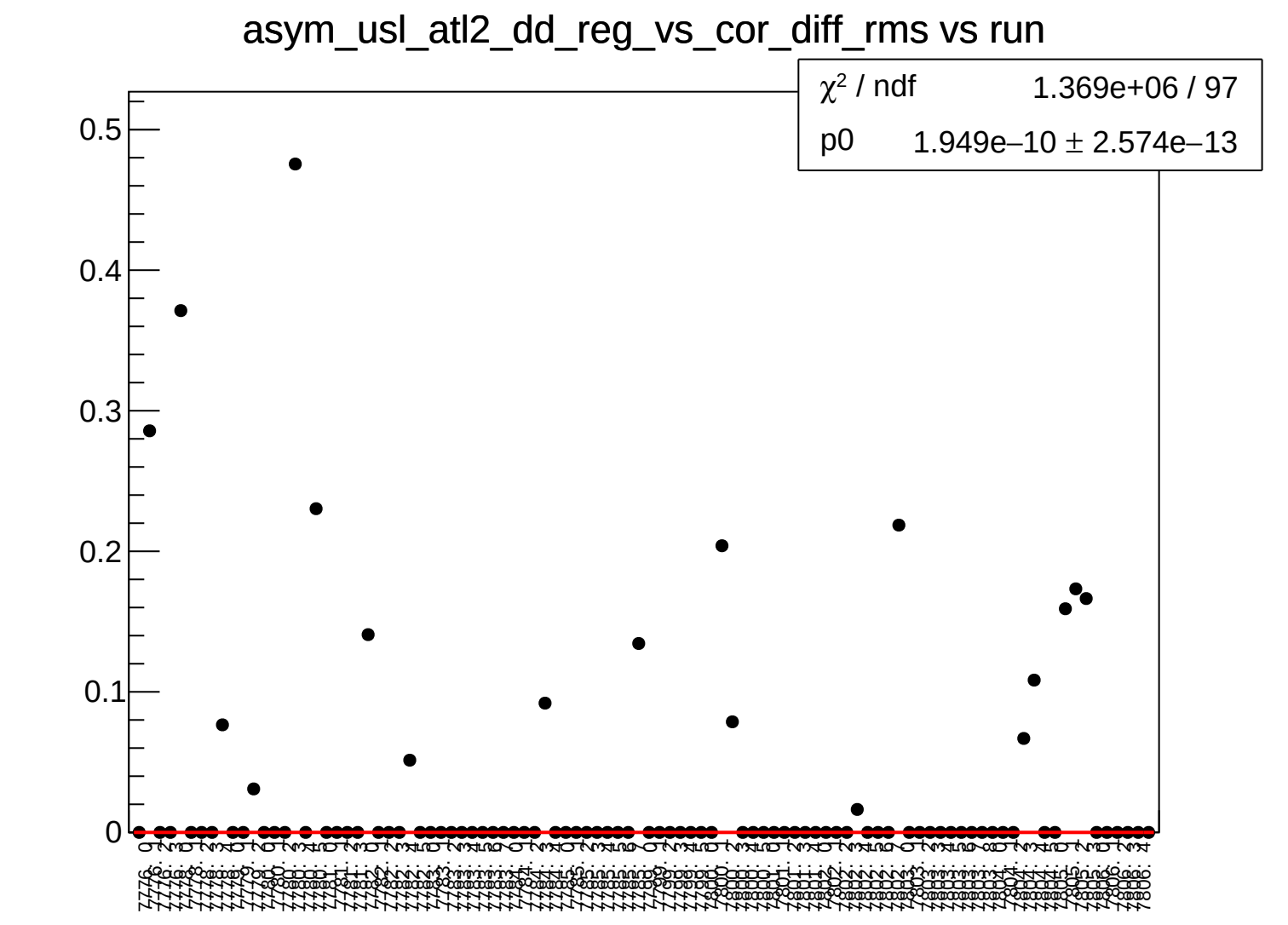

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 84.36 / 97
p0 3182 ± 4193
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 497.2
Std Dev 0
2
1
0
−1
−2

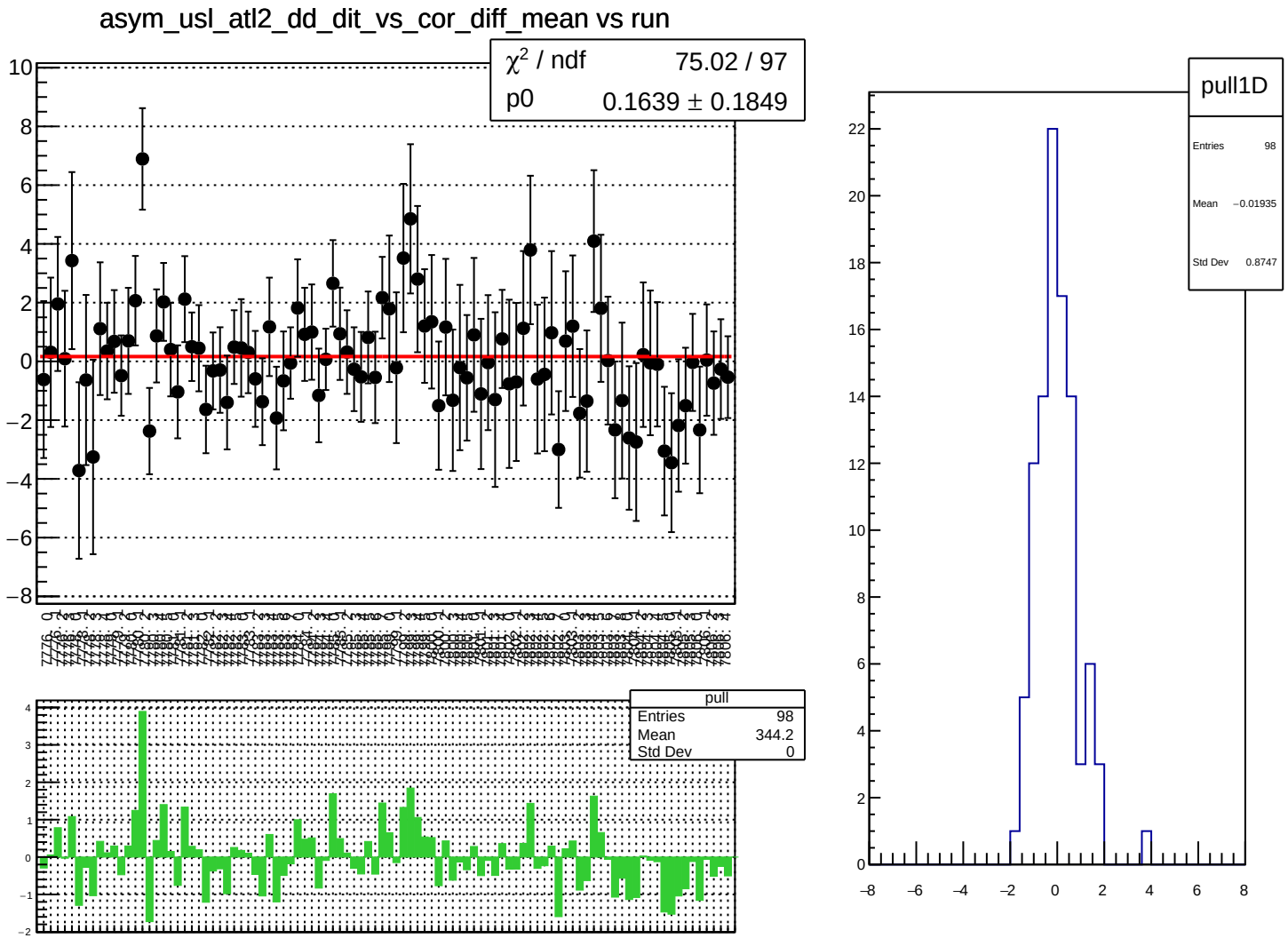

pull1D
Entries 98
Mean 0.01405
Std Dev 0.9277
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

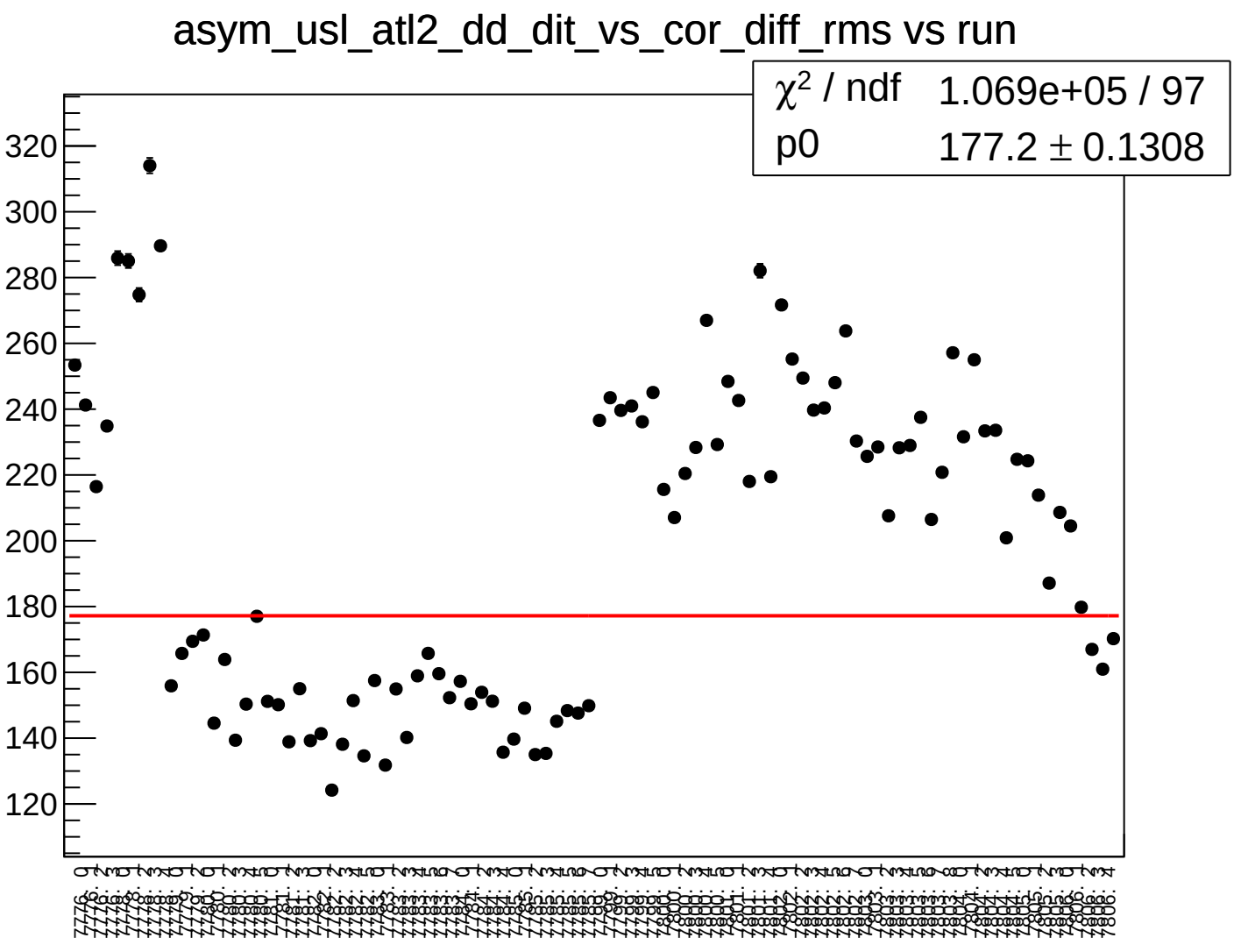

asym_usl_atl2_dd_rms vs run
χ² / ndf 3432 / 97
p0 4129 ± 2.965
4600
4400
4200
4000
3800

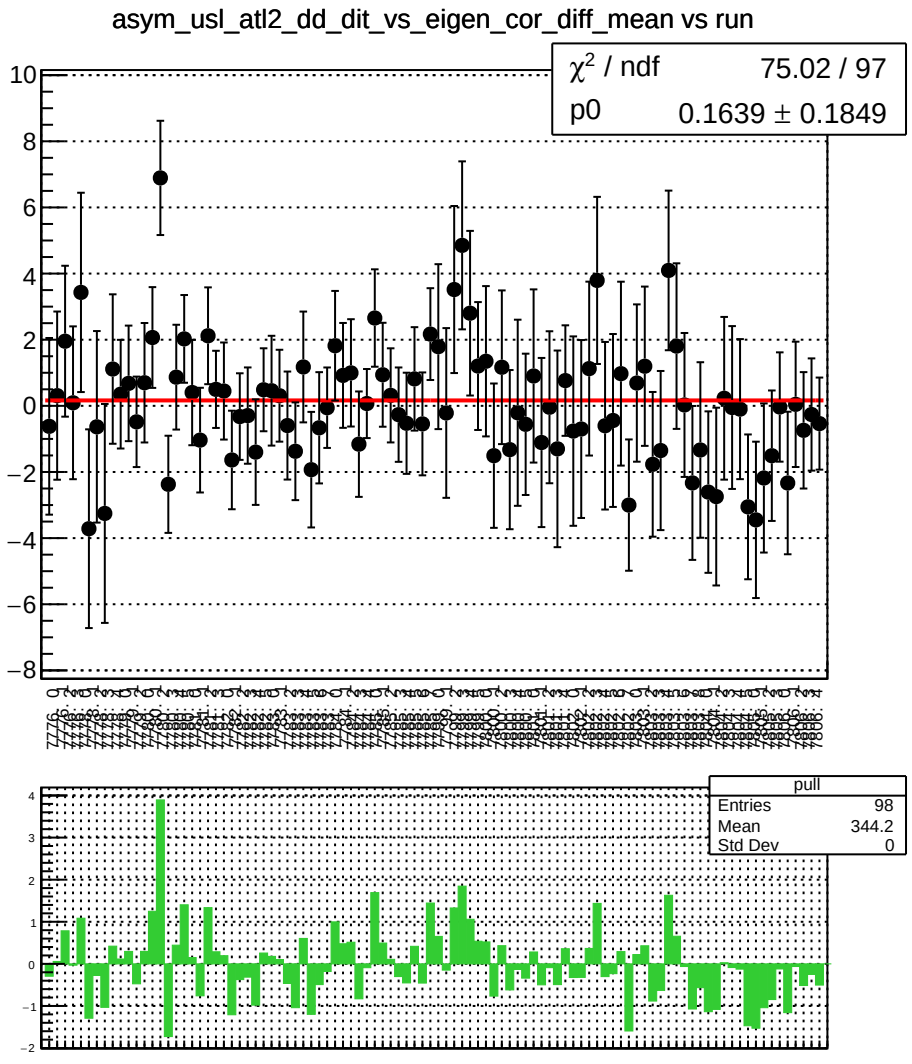

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.95 / 97
p0 7.504e−13 ± 3.64e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
−0.014
−0.016
pull
Entries 98
Mean 18.06
Std Dev 19.34
3
2
1
0
−1
−2

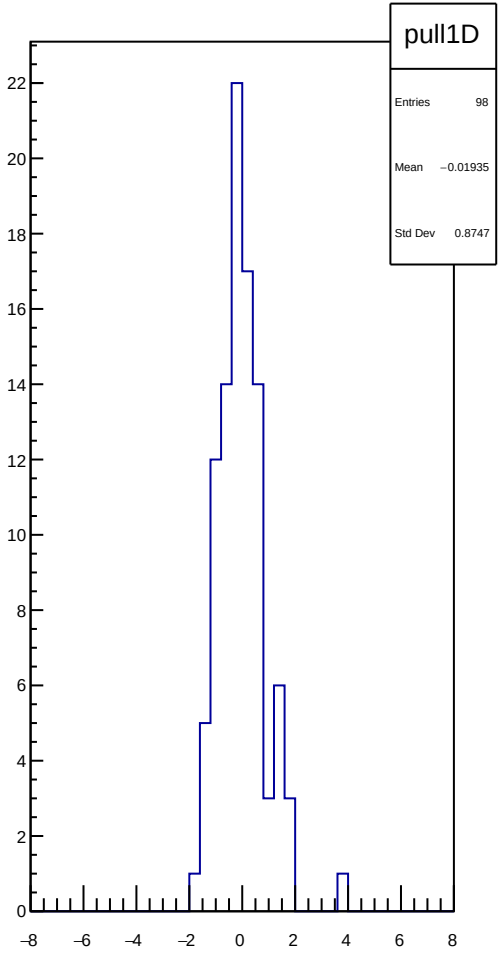

pull1D
Entries 98
Mean −0.06912
Std Dev 0.9174
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

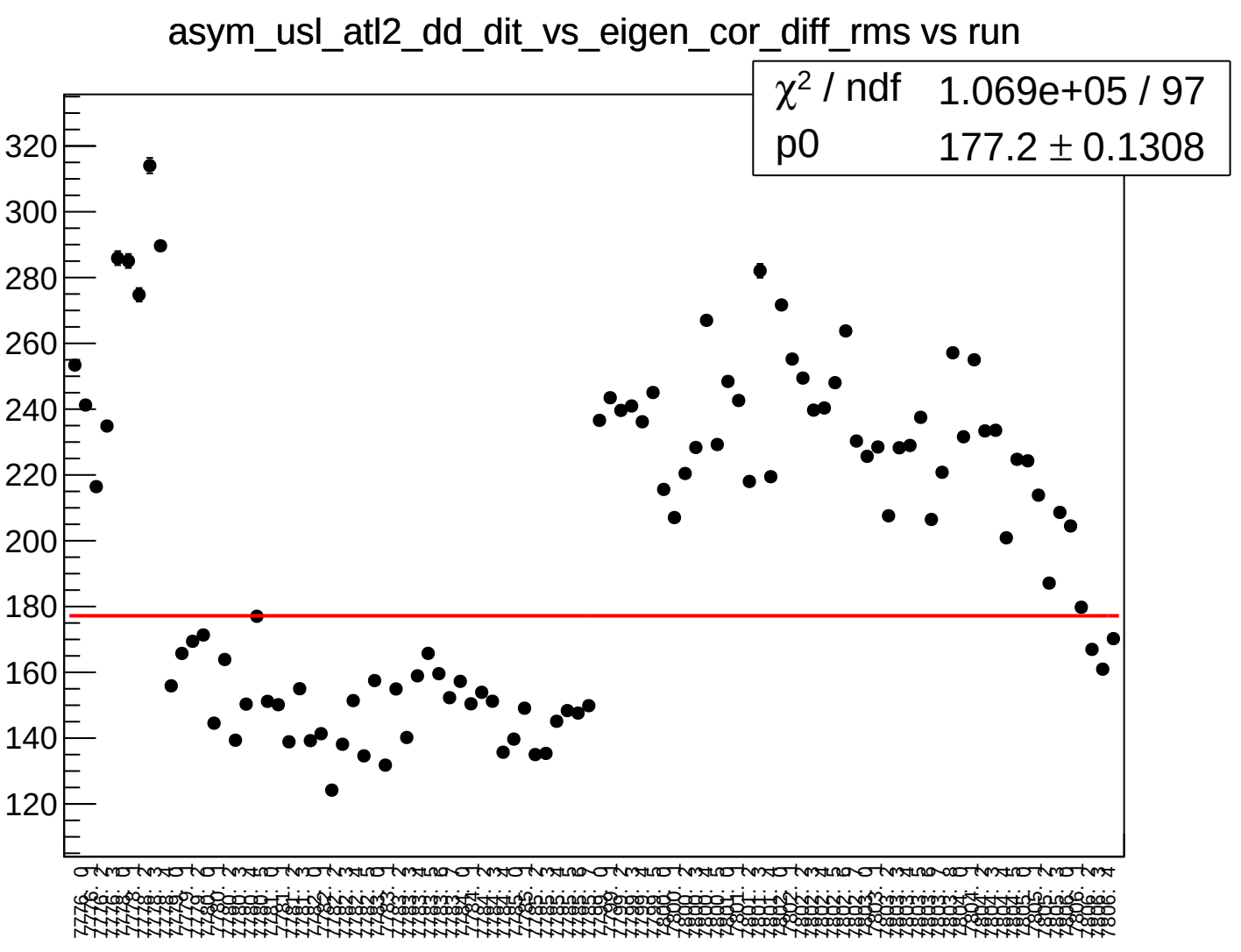

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.369e+06 / 97
p0 1.949e−10 ± 2.574e−13
0.5
0.4
0.3
0.2
0.1
0

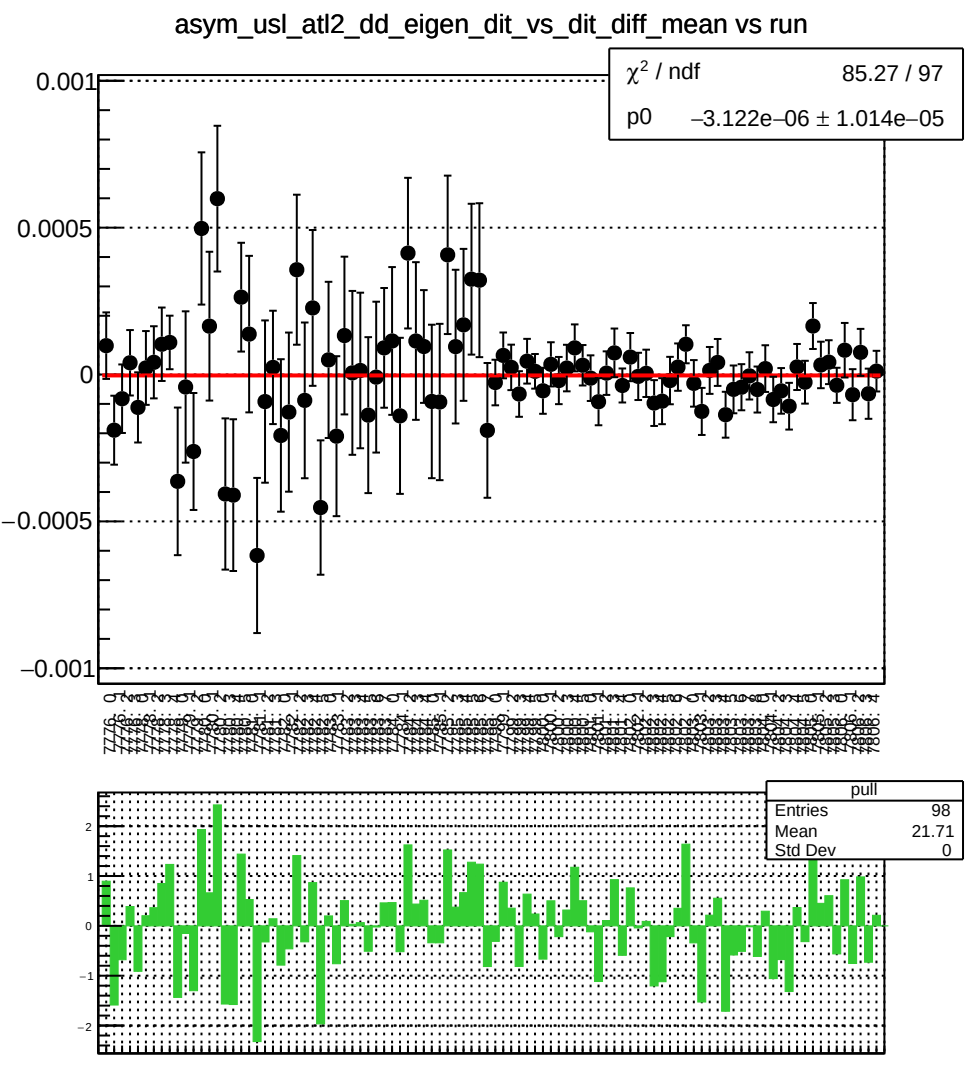

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.02 / 97
p0 0.1639 ± 0.1849
pull
Entries 98
Mean 344.2
Std Dev 0
pull1D
Entries 98
Mean −0.01935
Std Dev 0.8747

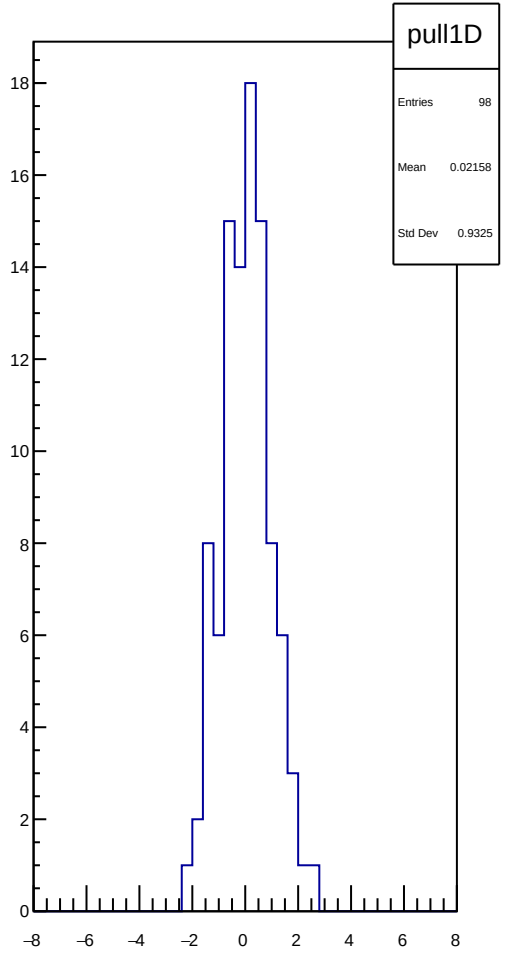

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.069e+05 / 97
p0 177.2 ± 0.1308
320
300
280
260
240
220
200
180
160
140
120

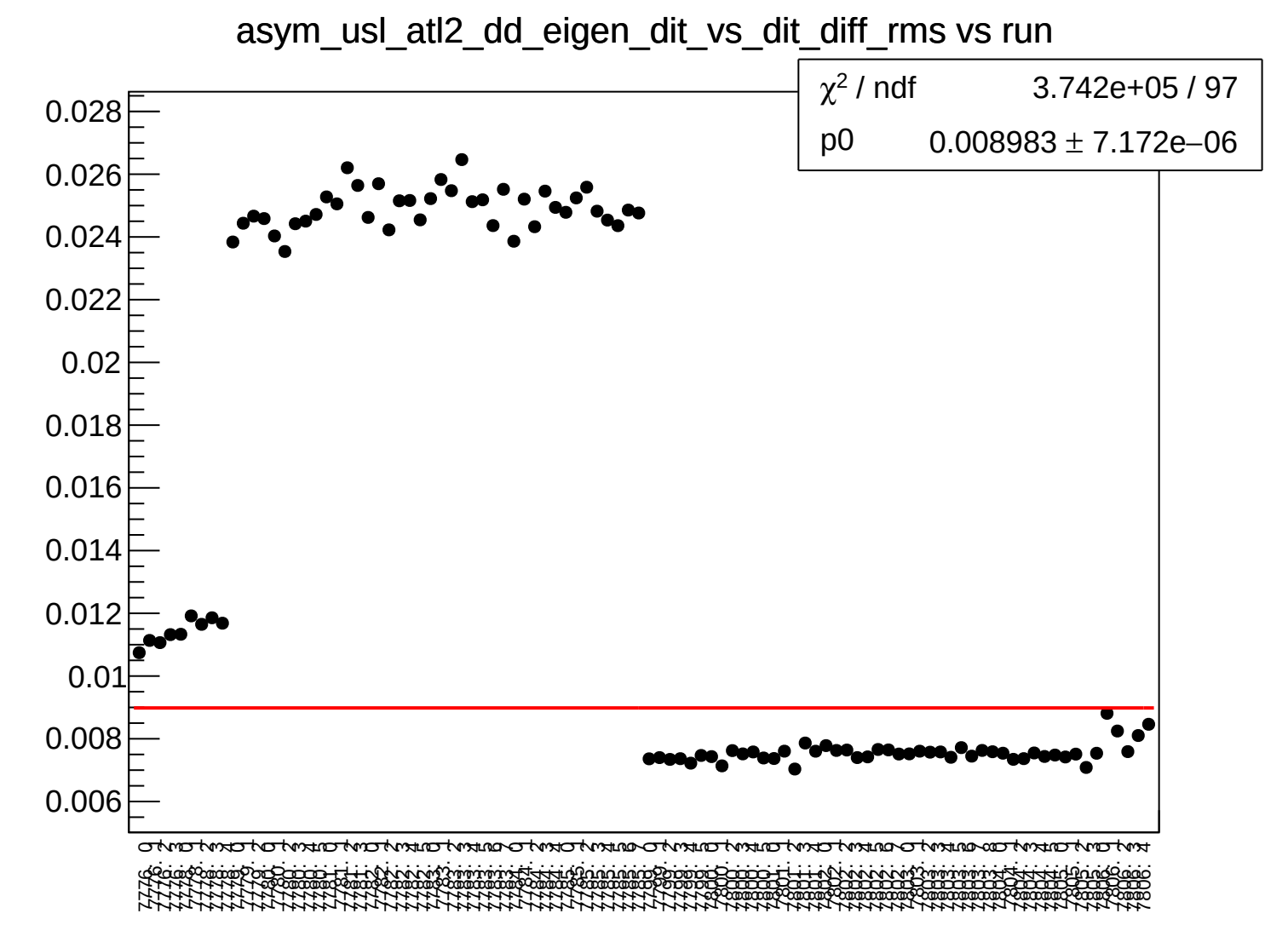

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.02 / 97
p0 0.1639 ± 0.1849
pull
Entries 98
Mean 344.2
Std Dev 0

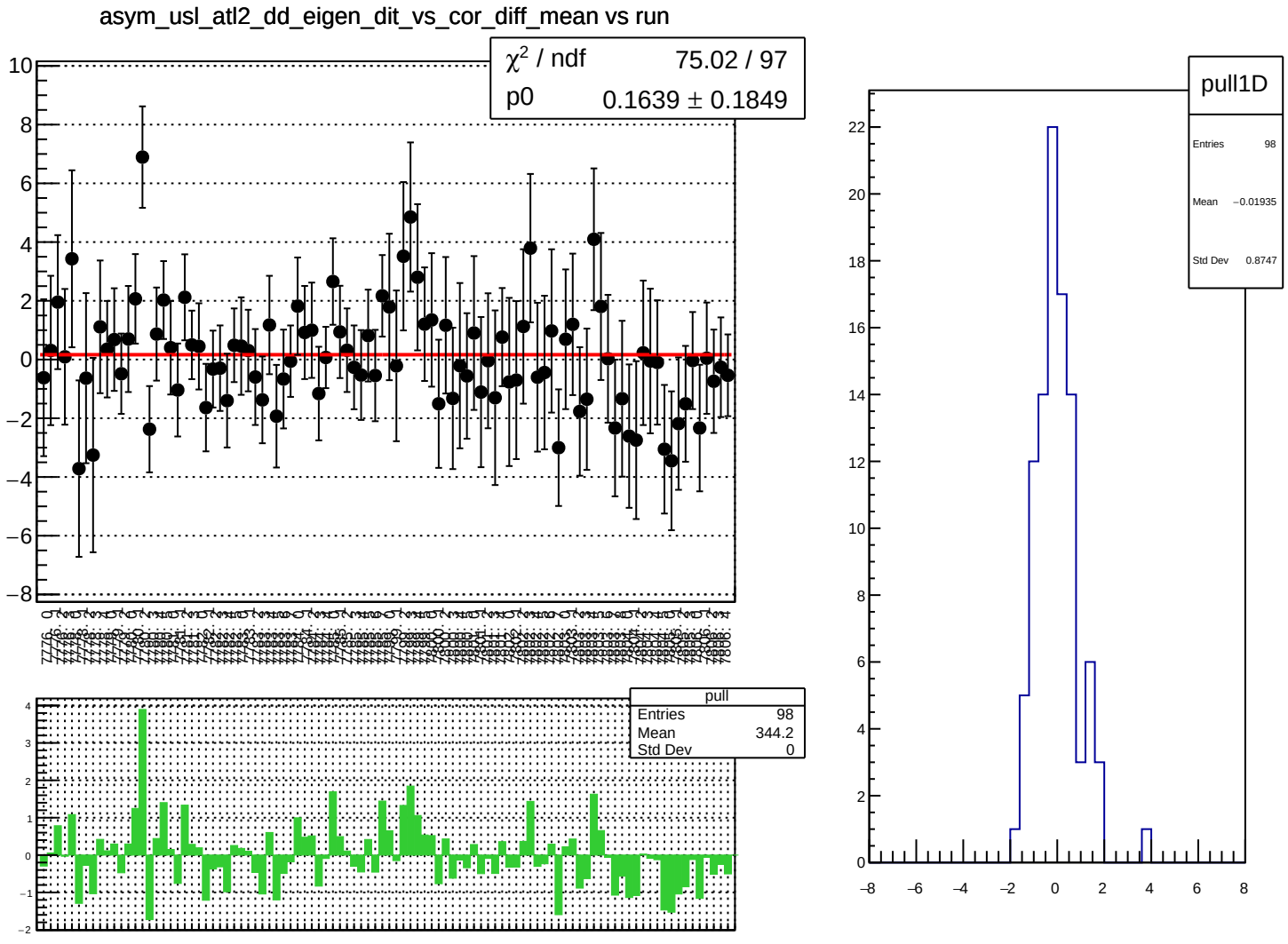

pull1D
Entries 98
Mean −0.01935
Std Dev 0.8747

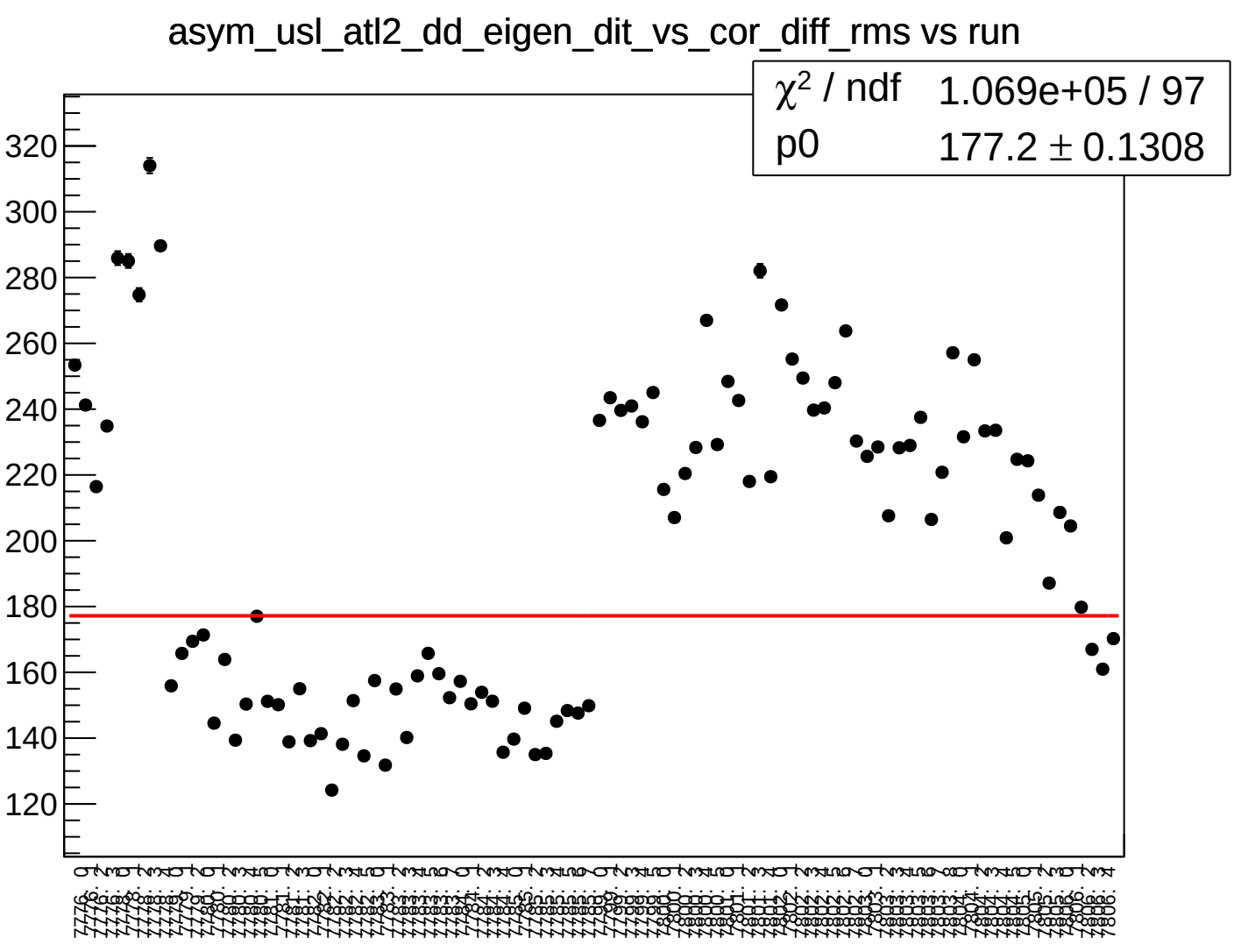

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.069e+05 / 97
p0 177.2 ± 0.1308
320
300
280
260
240
220
200
180
160
140
120

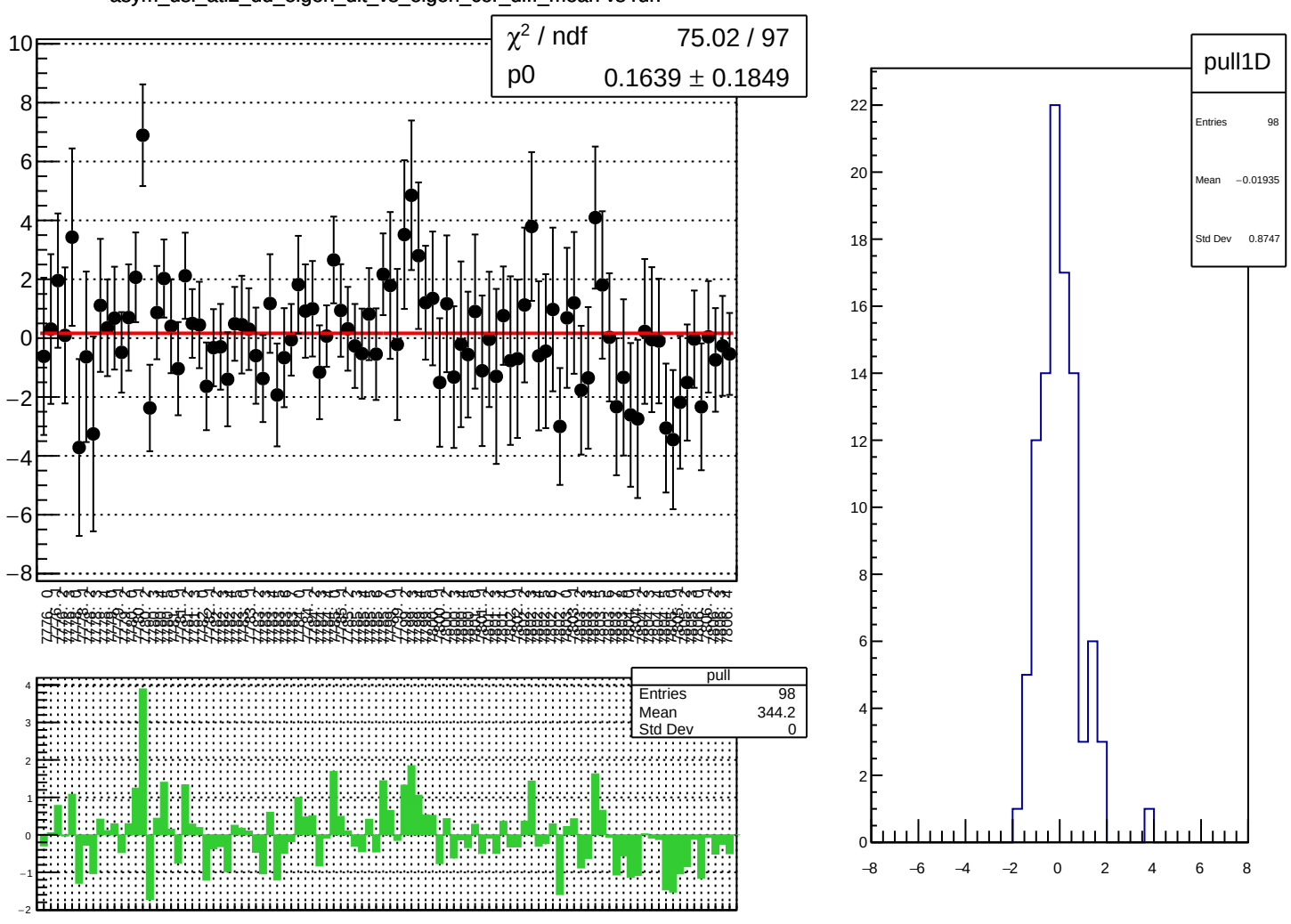

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.27 / 97
p0 −3.122e−06 ± 1.014e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 98
Mean 21.71
Std Dev 0
2
1
0
−1
−2

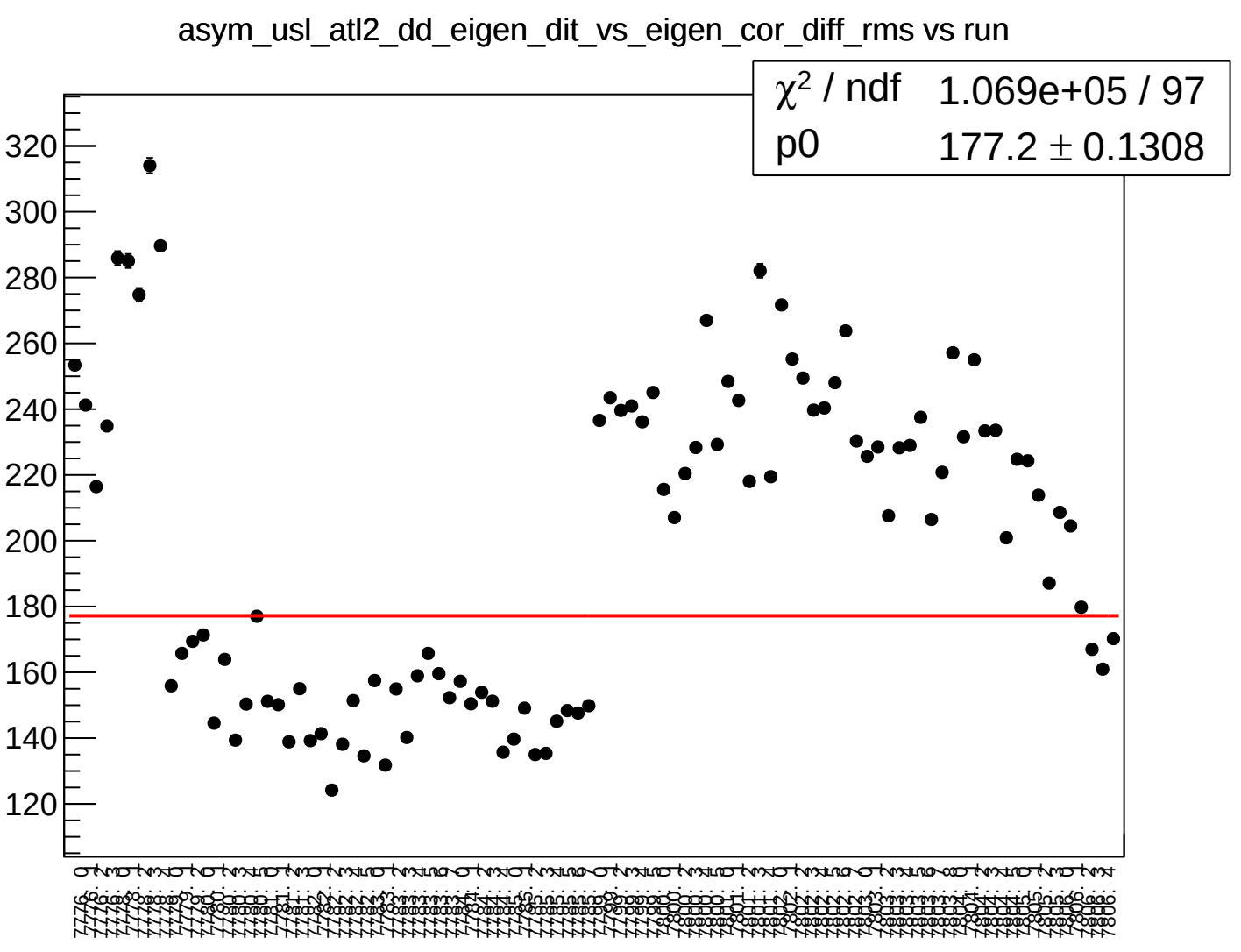

pull1D
Entries 98
Mean 0.02158
Std Dev 0.9325
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

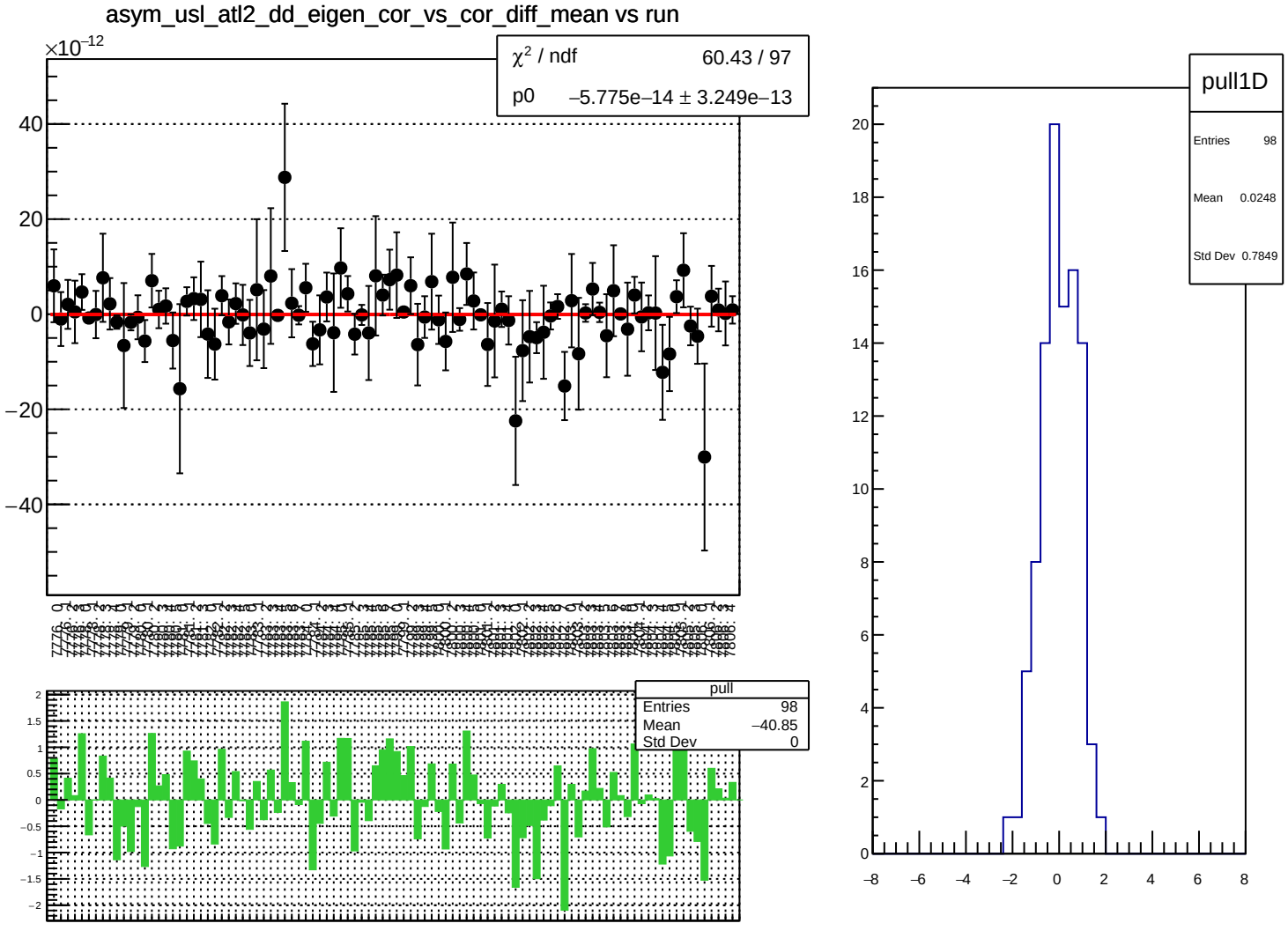

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.742e+05 / 97
p0 0.008983 ± 7.172e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

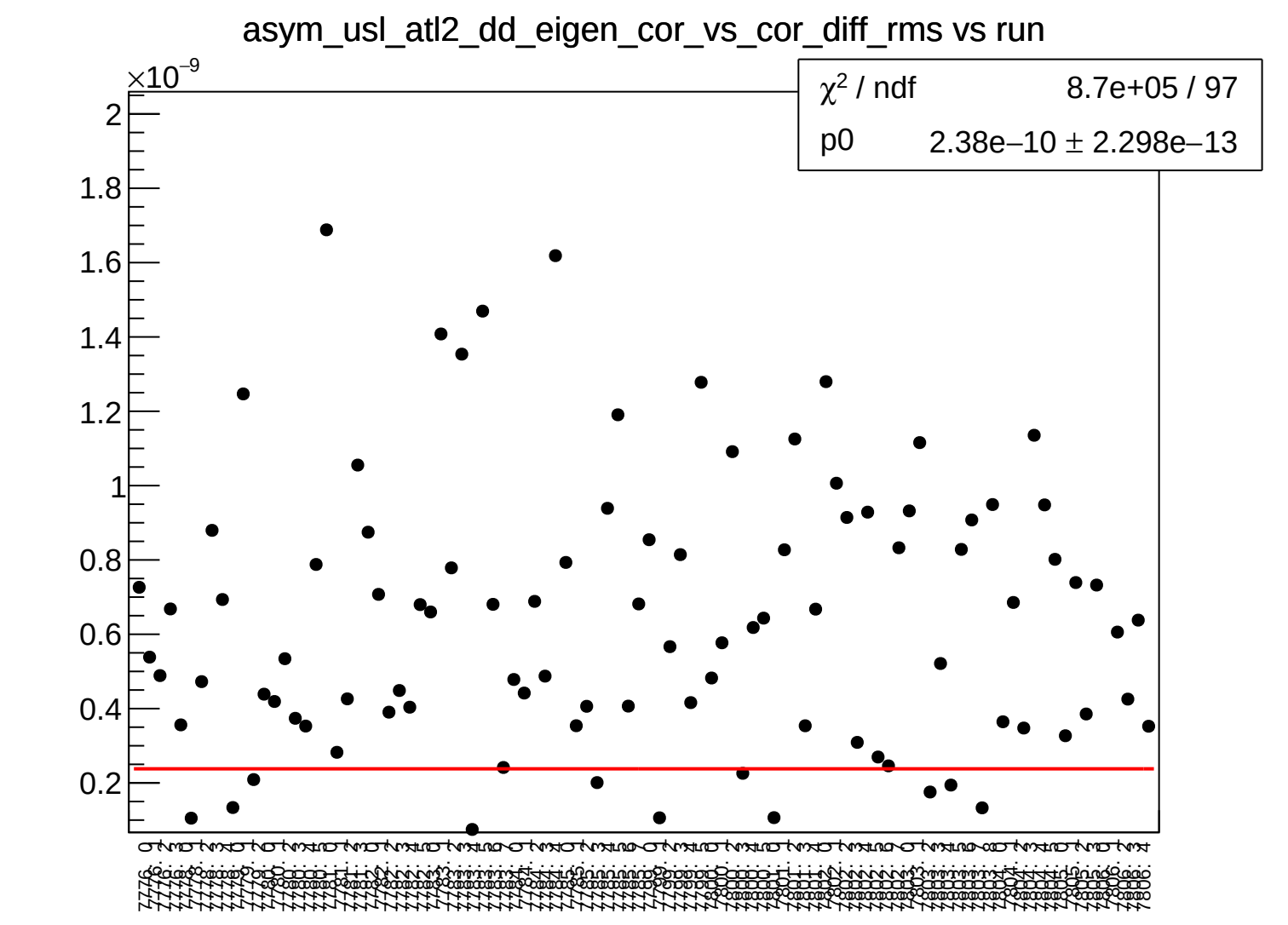

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.02 / 97
p0 0.1639 ± 0.1849
pull
Entries 98
Mean 344.2
Std Dev 0
pull1D
Entries 98
Mean −0.01935
Std Dev 0.8747

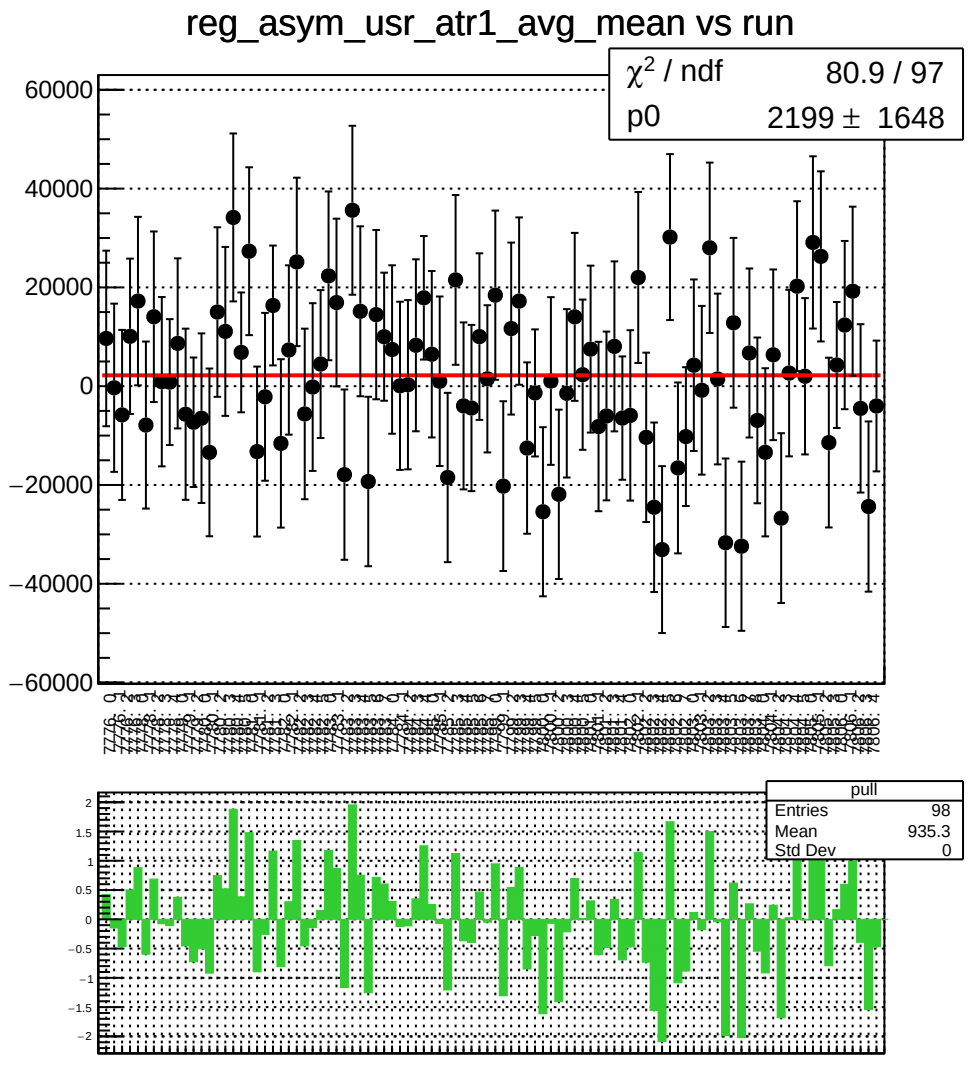

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.069e+05 / 97
p0 177.2 ± 0.1308
320
300
280
260
240
220
200
180
160
140
120

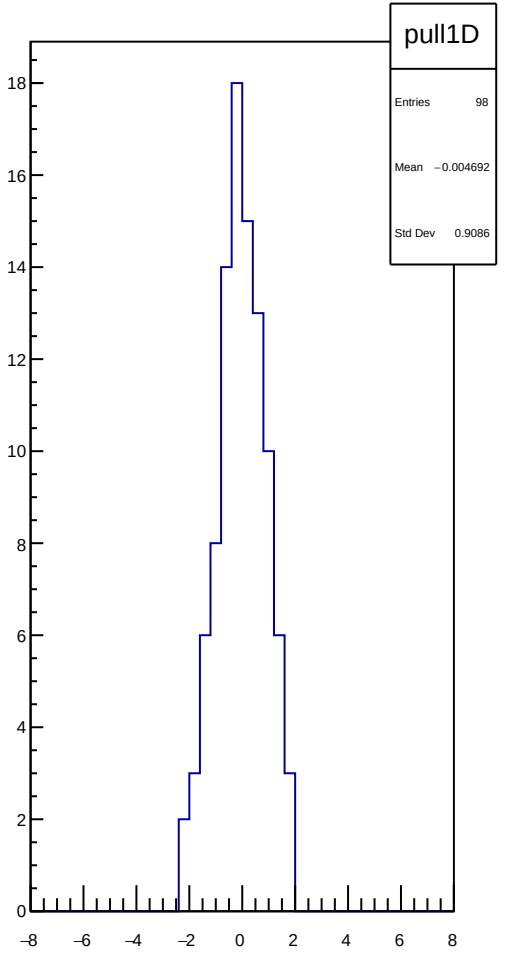

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.02 / 97
p0 0.1639 ± 0.1849
pull
Entries 98
Mean 344.2
Std Dev 0
pull1D
Entries 98
Mean −0.01935
Std Dev 0.8747

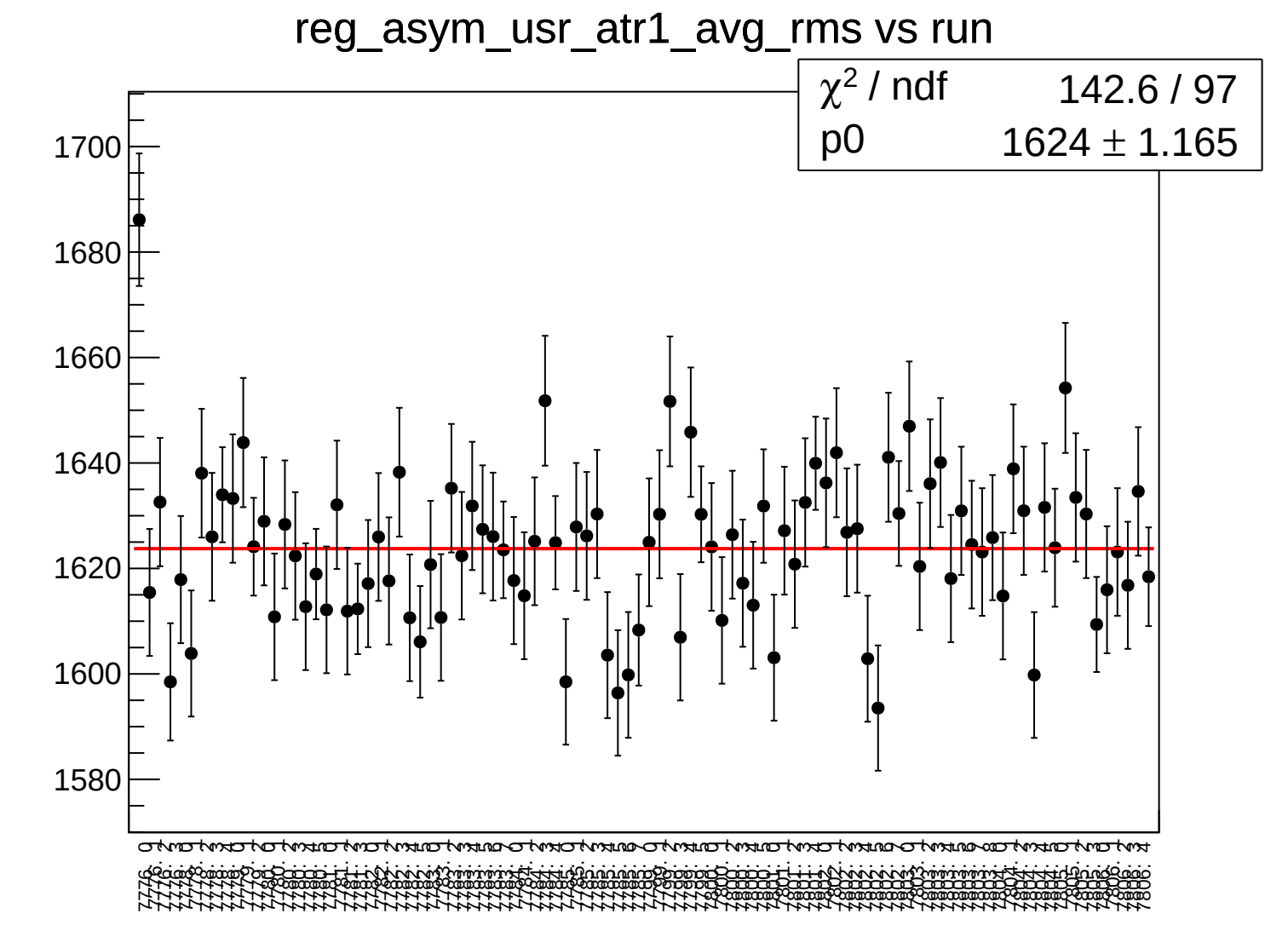

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.069e+05 / 97
p0 177.2 ± 0.1308
320
300
280
260
240
220
200
180
160
140
120

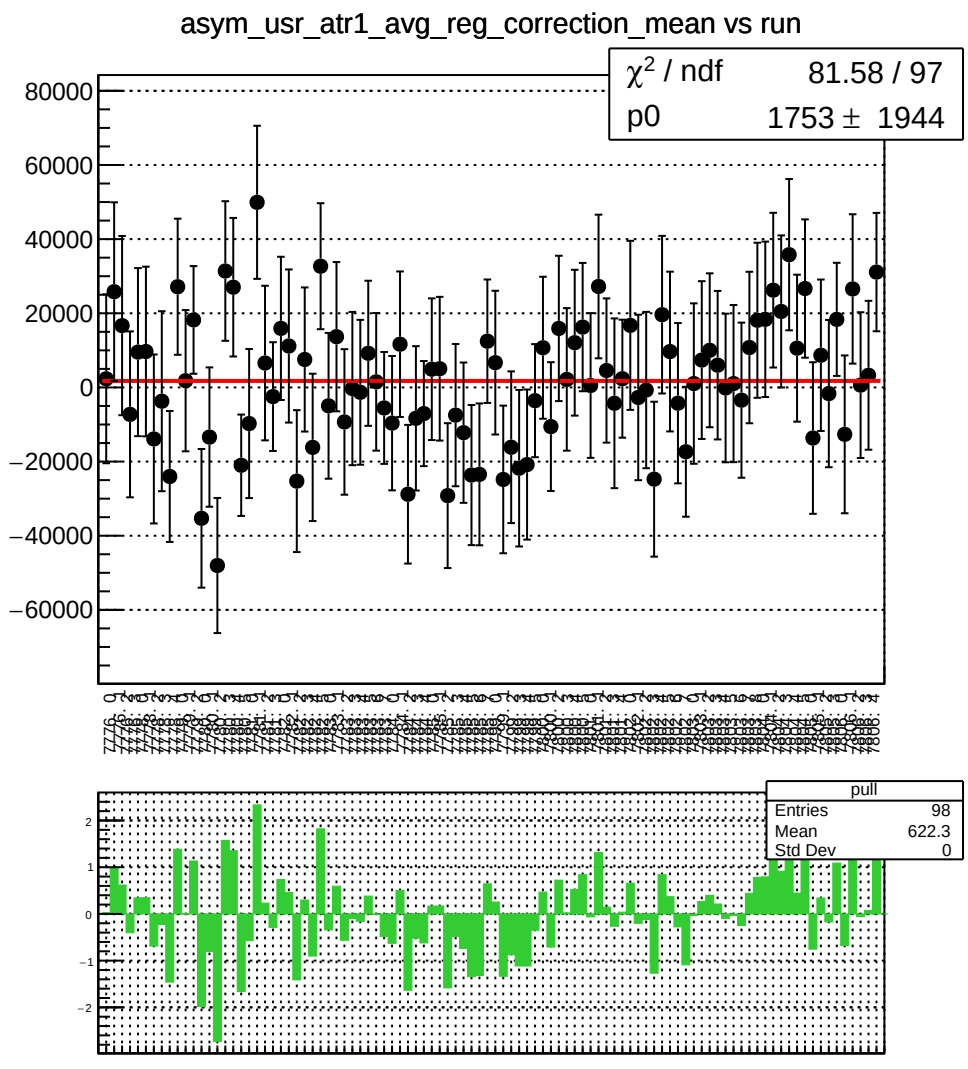

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 60.43 / 97
p0 −5.775e−14 ± 3.249e−13
pull
Entries 98
Mean −40.85
Std Dev 0
pull1D
Entries 98
Mean 0.0248
Std Dev 0.7849

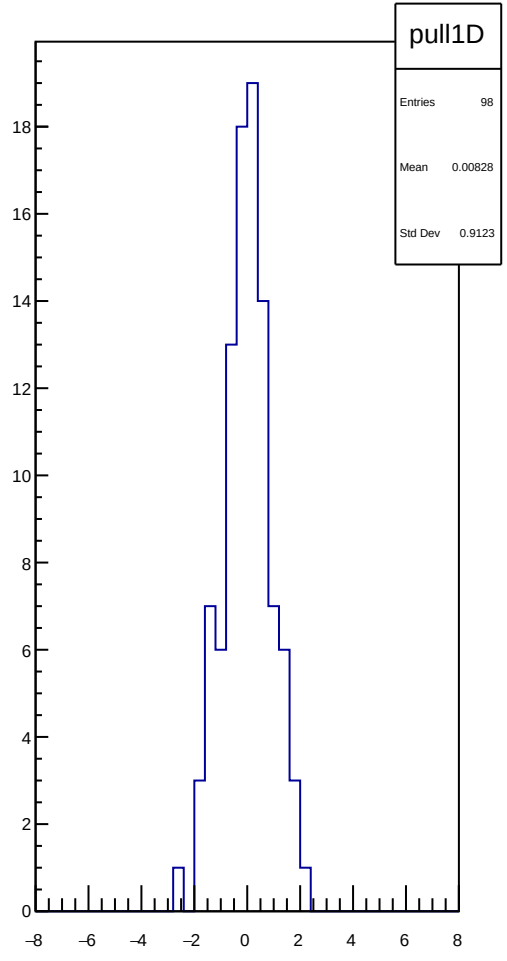

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.7e+05 / 97
p0 2.38e−10 ± 2.298e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

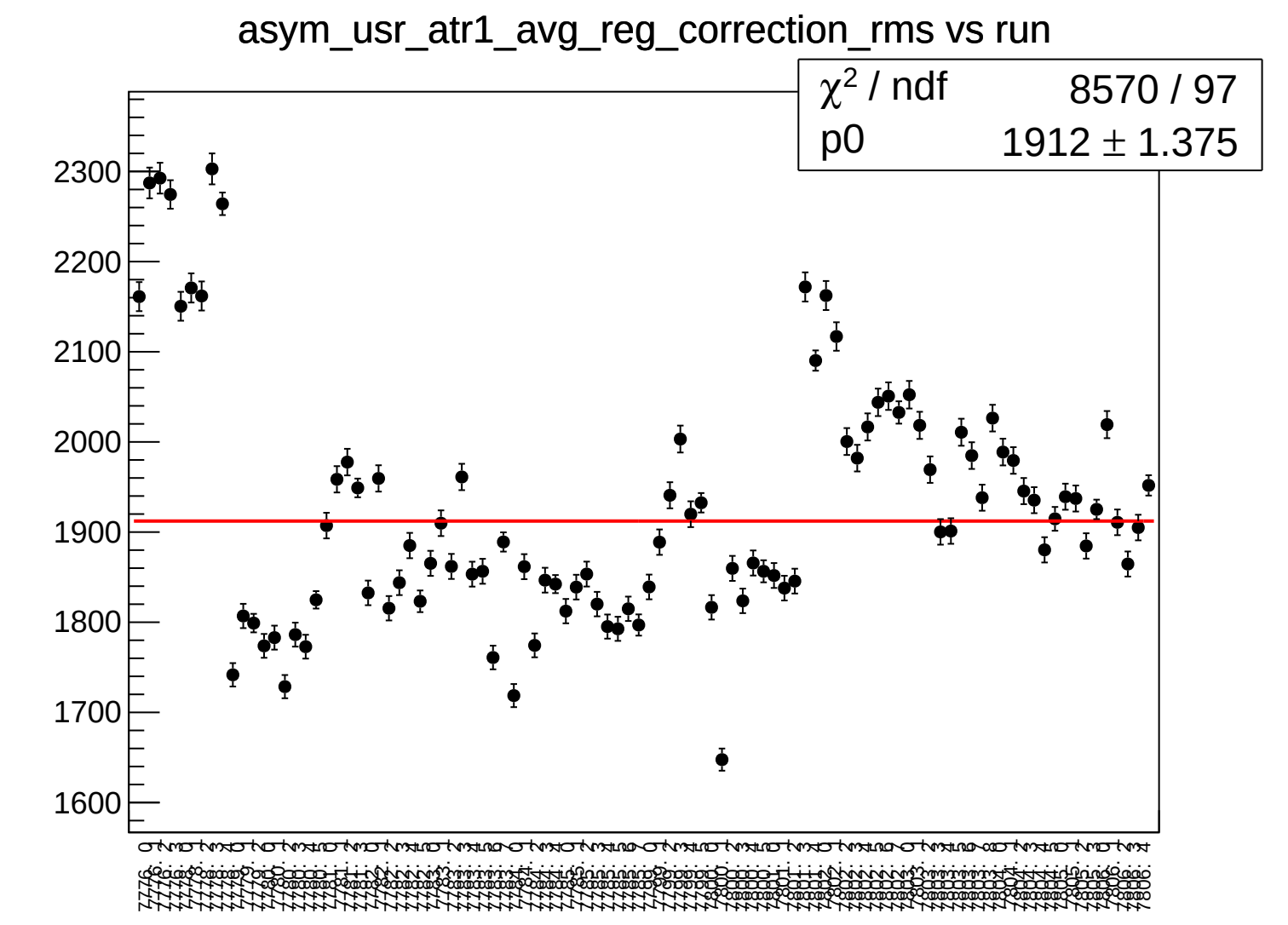

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 80.9 / 97
p0 2199 ± 1648
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 935.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

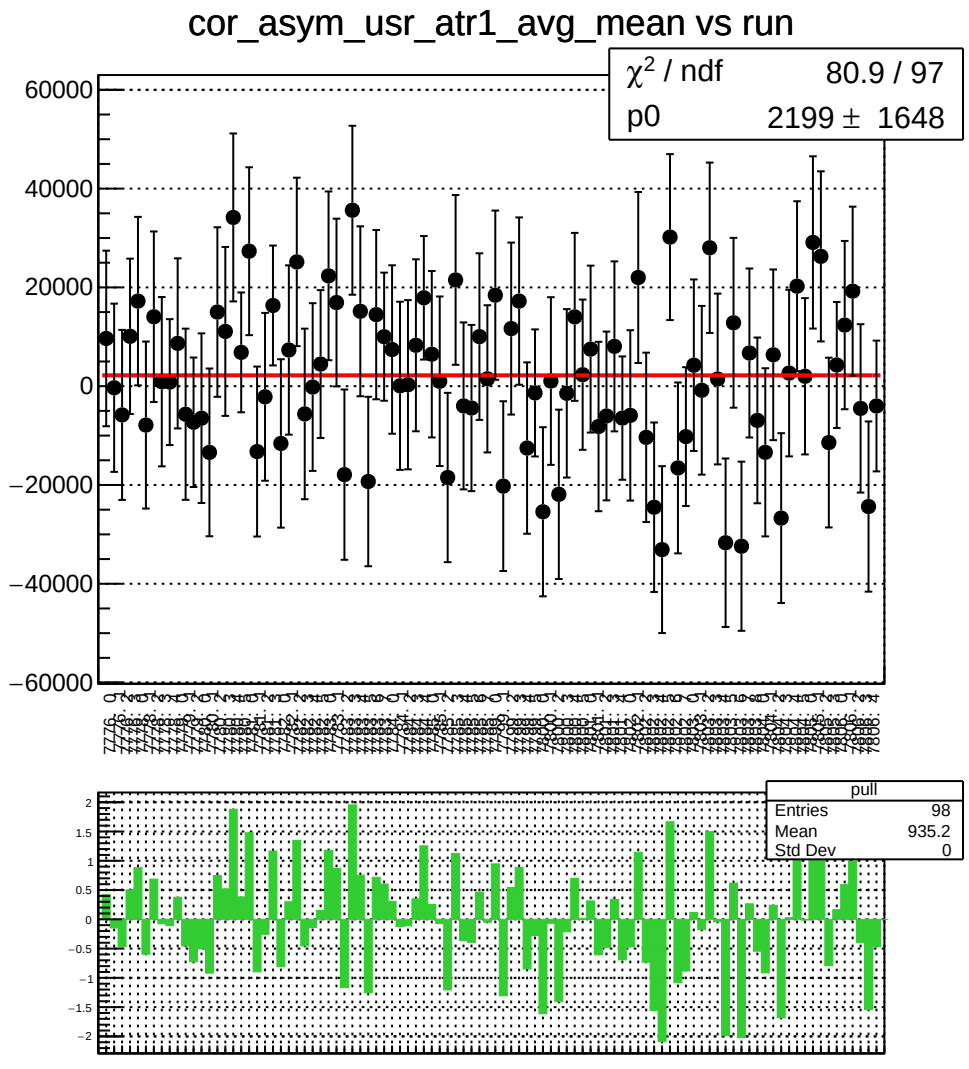

pull1D
Entries 98
Mean −0.004692
Std Dev 0.9086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

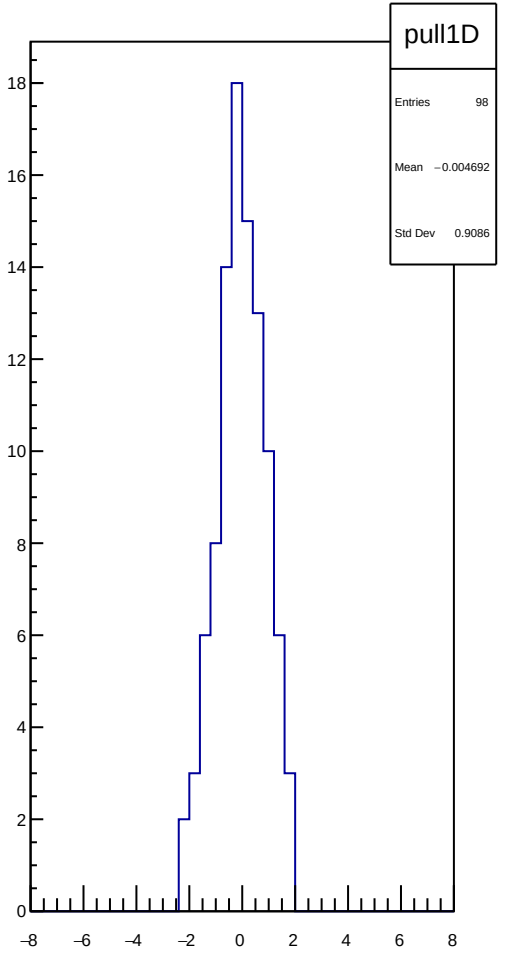

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 142.6 / 97
p0 1624 ± 1.165
1700
1680
1660
1640
1620
1600
1580

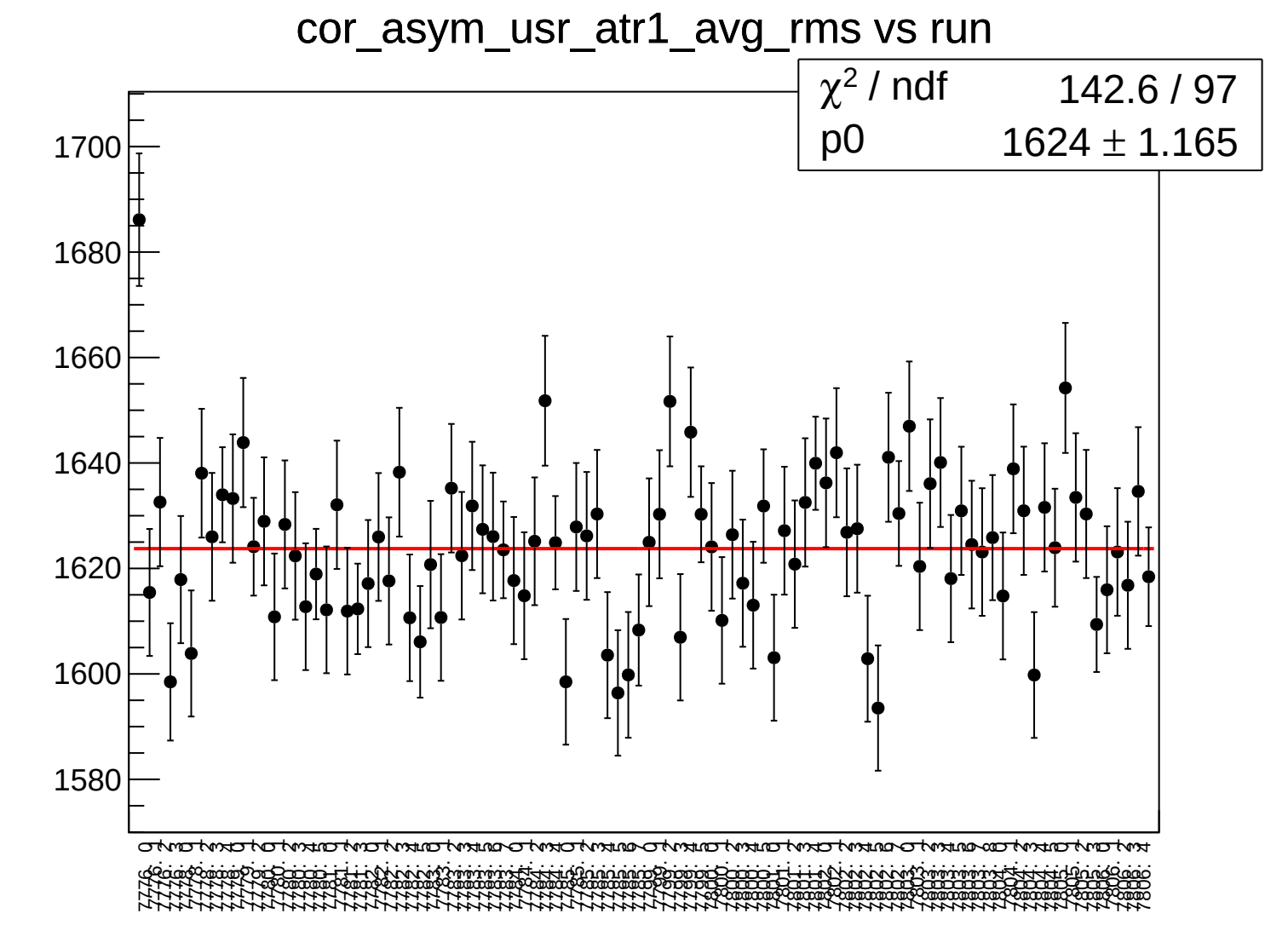

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 81.58 / 97
p0 1753 ± 1944
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 622.3
Std Dev 0
2
1
0
−1
−2

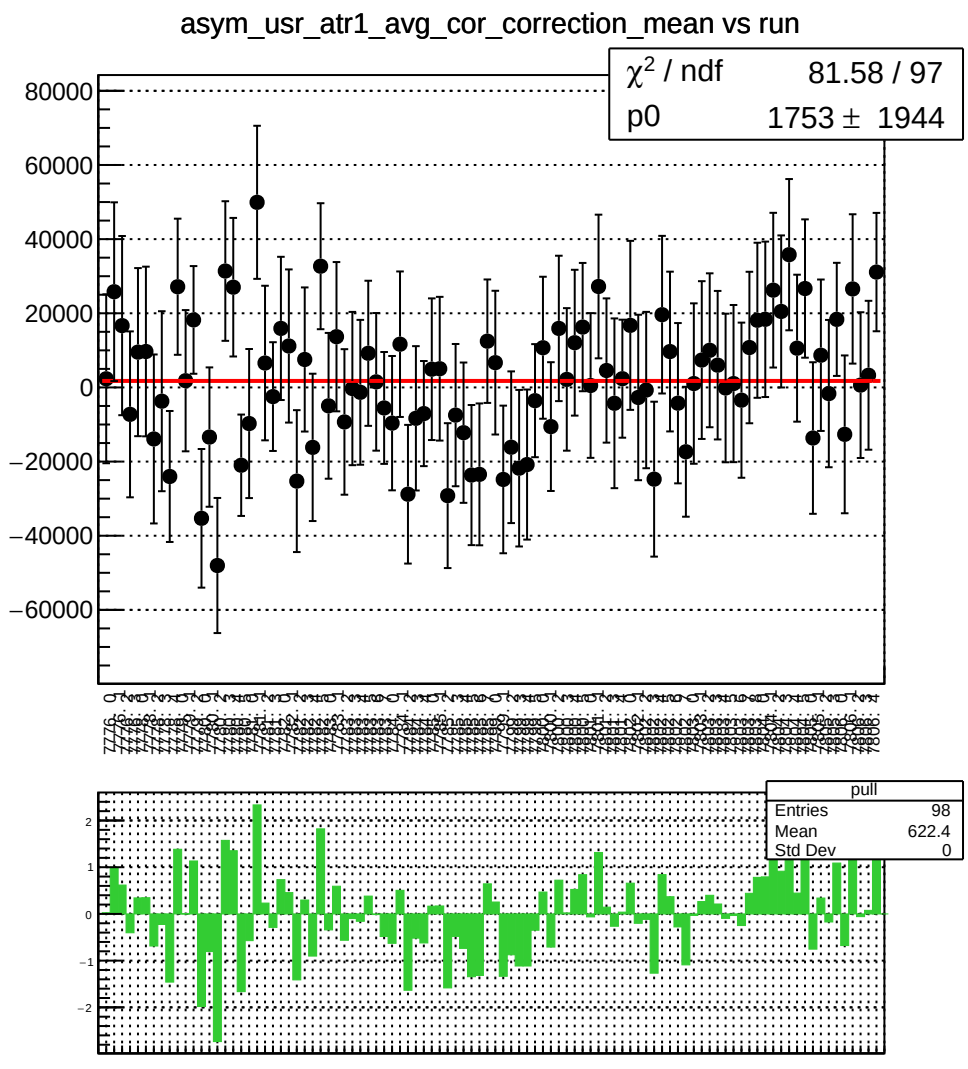

pull1D
Entries 98
Mean 0.00828
Std Dev 0.9123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

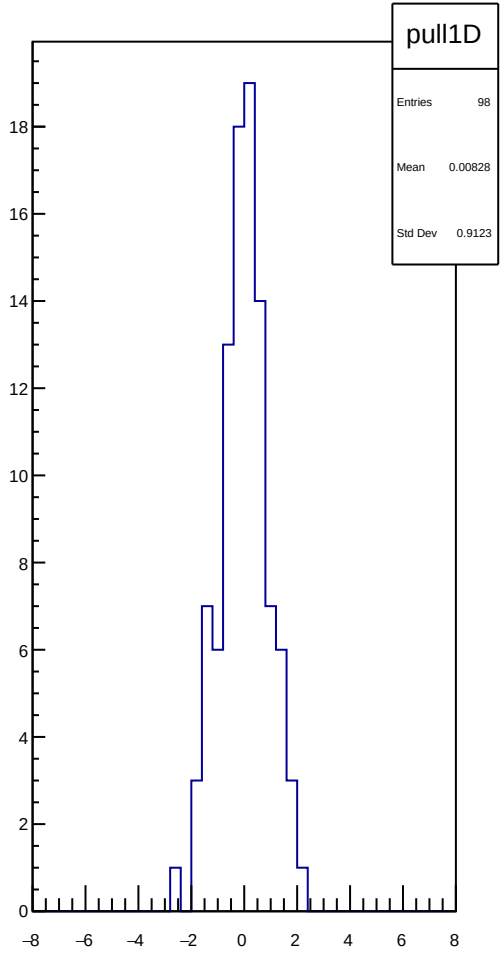

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 8570 / 97
p0 1912 ± 1.375
2300
2200
2100
2000
1900
1800
1700
1600

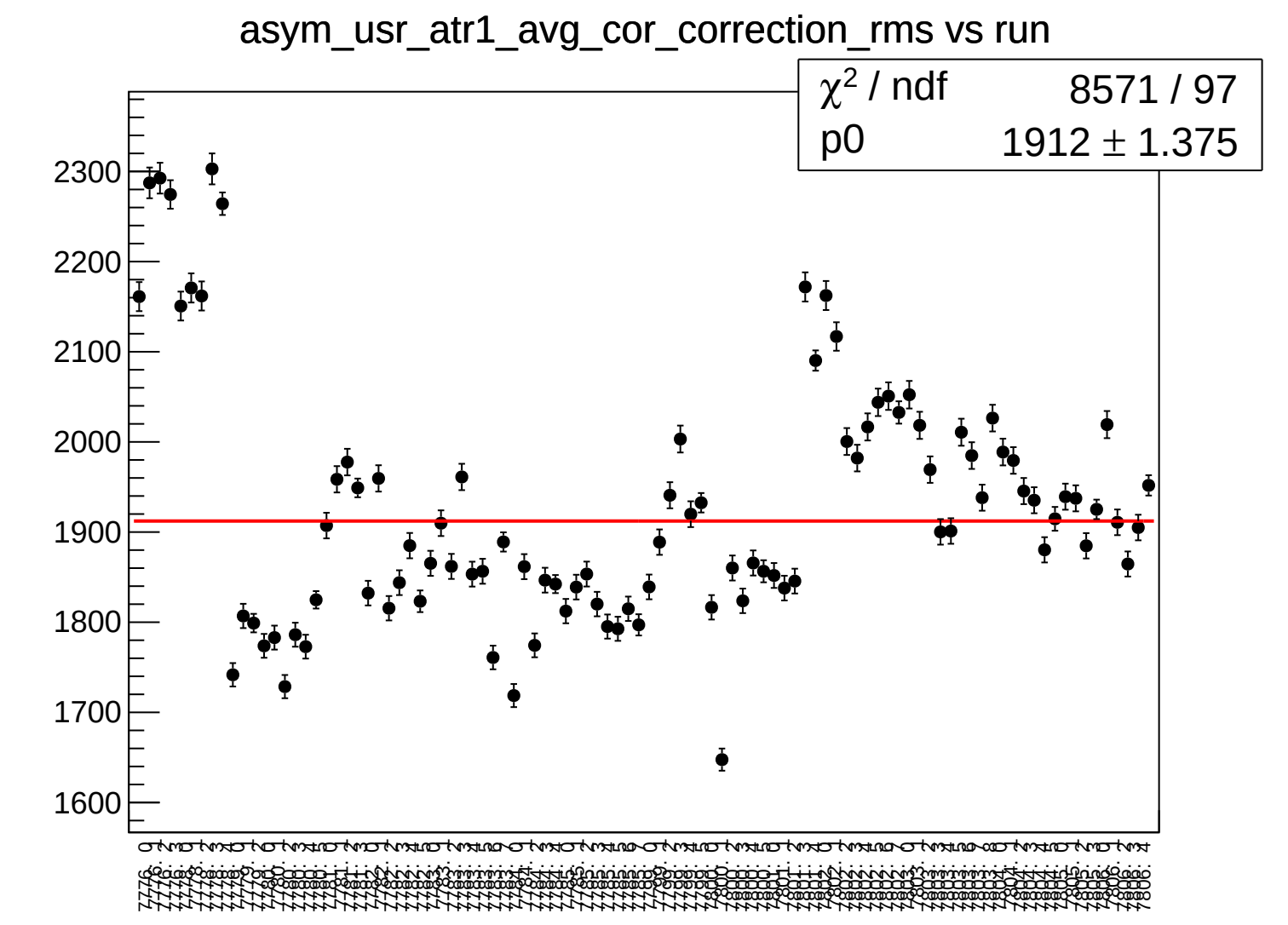

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 80.9 / 97
p0 2199 ± 1648
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 935.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

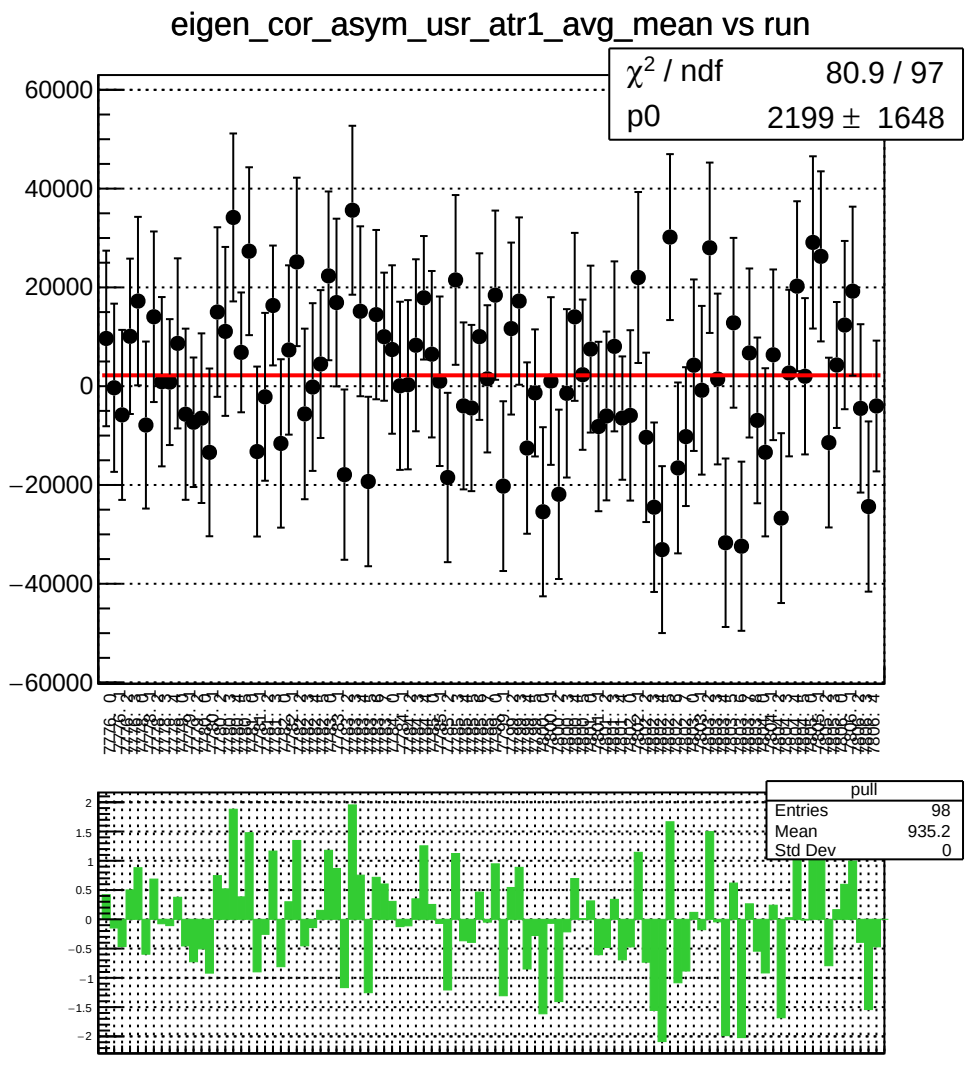

pull1D
Entries 98
Mean −0.004692
Std Dev 0.9086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

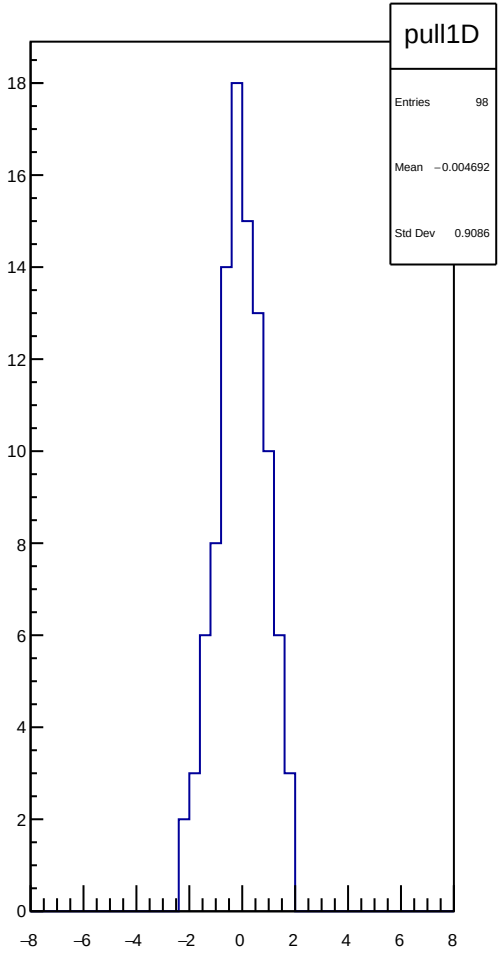

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 142.6 / 97
p0 1624 ± 1.165
1700
1680
1660
1640
1620
1600
1580

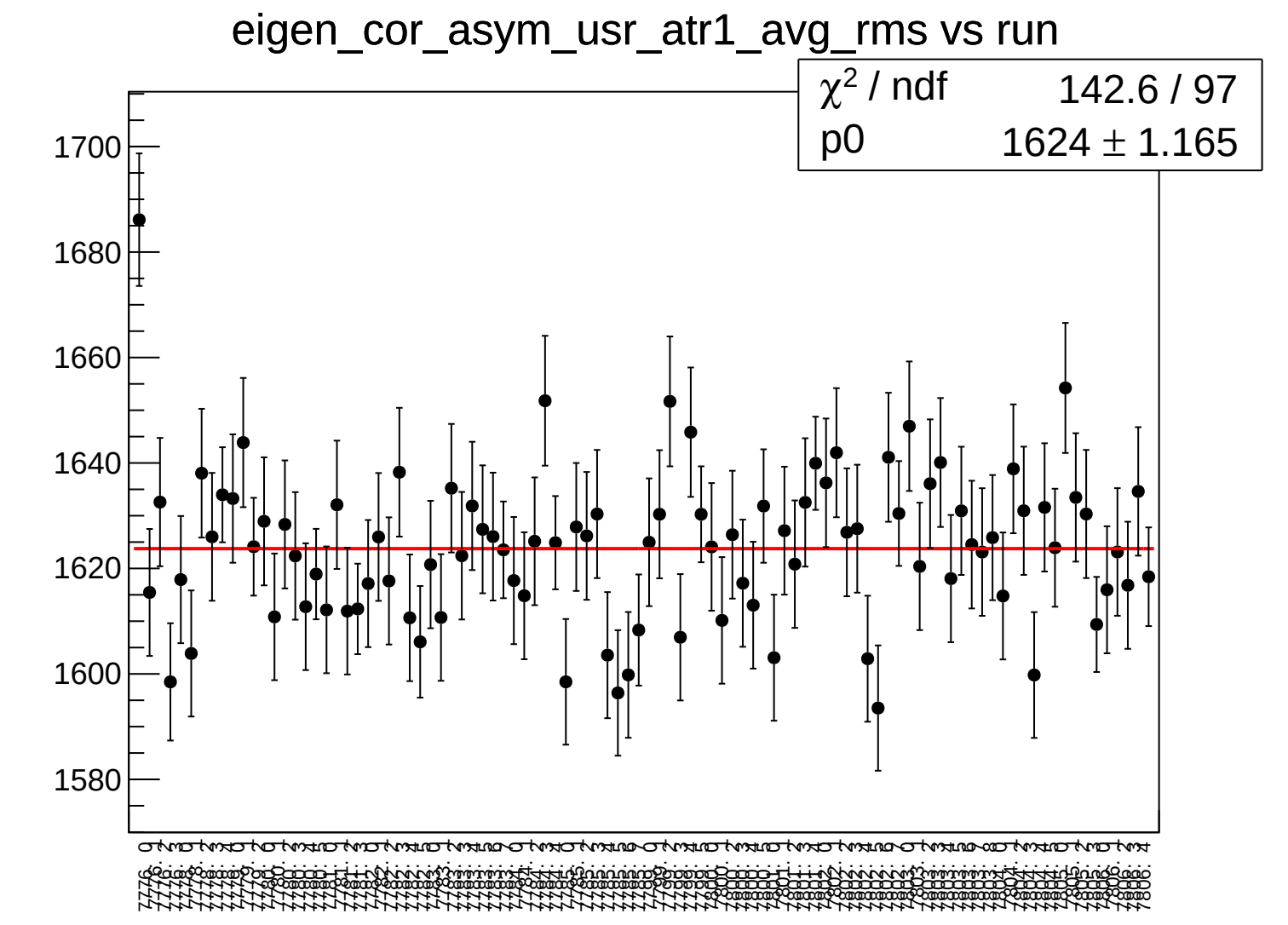

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 81.58 / 97
p0 1753 ± 1944
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 622.4
Std Dev 0
2
1
0
−1
−2

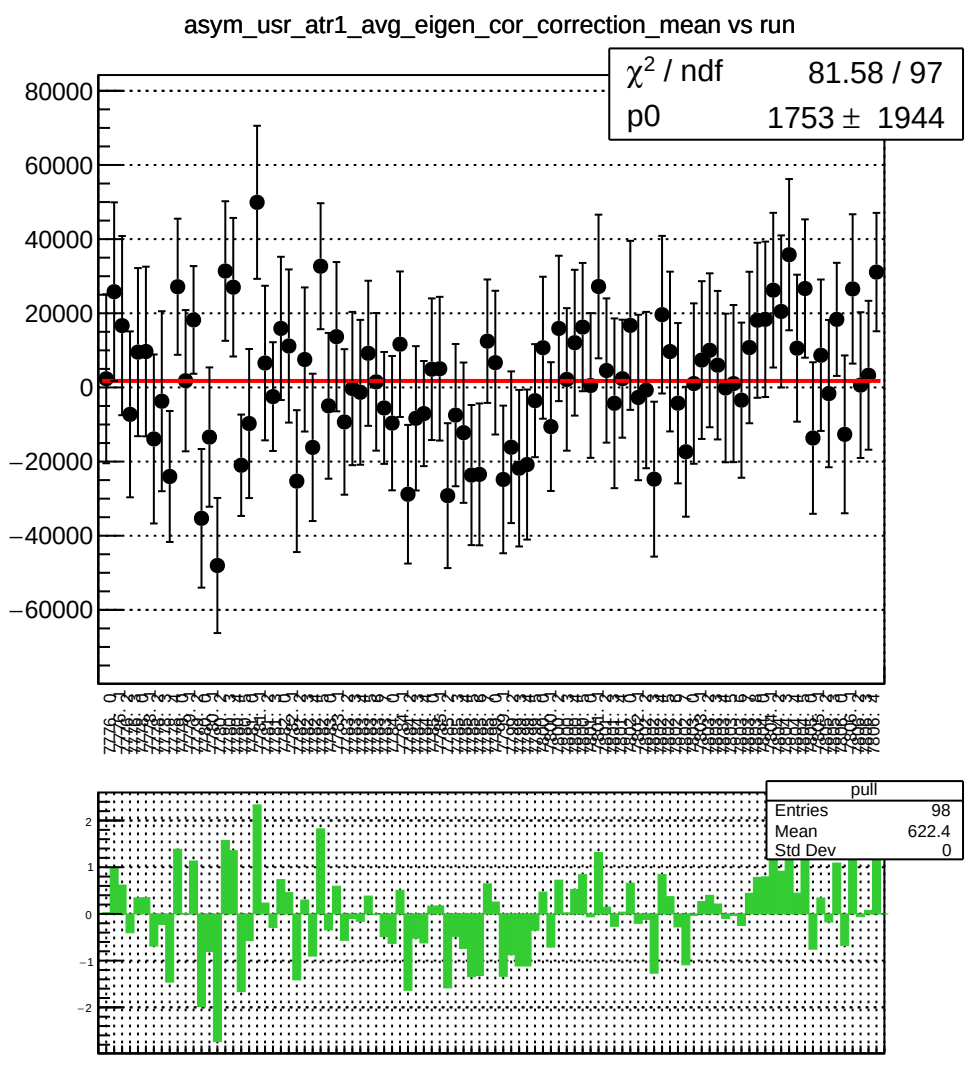

pull1D
Entries 98
Mean 0.00828
Std Dev 0.9123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

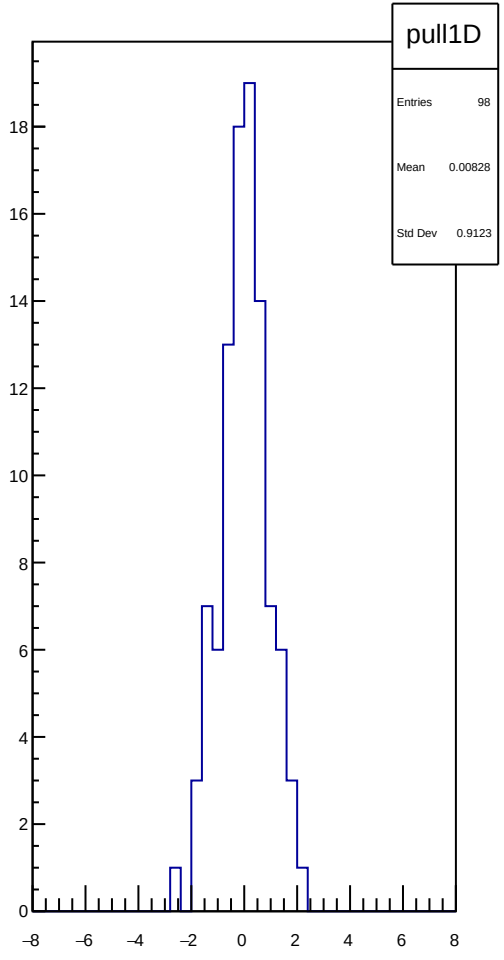

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 8571 / 97
p0 1912 ± 1.375
2300
2200
2100
2000
1900
1800
1700
1600

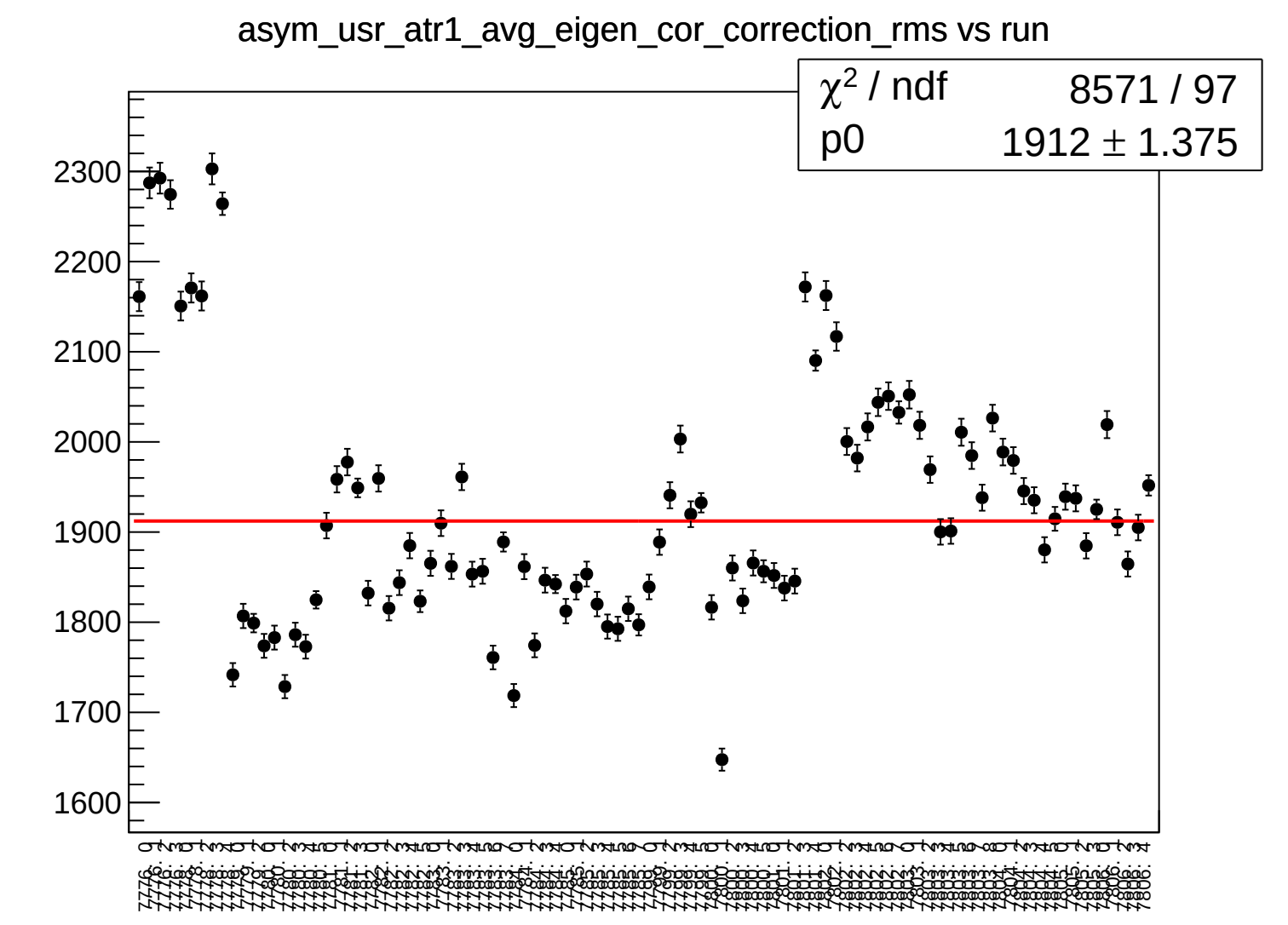

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 80.9 / 97
p0 2199 ± 1648
pull
Entries 98
Mean 935.2
Std Dev 0

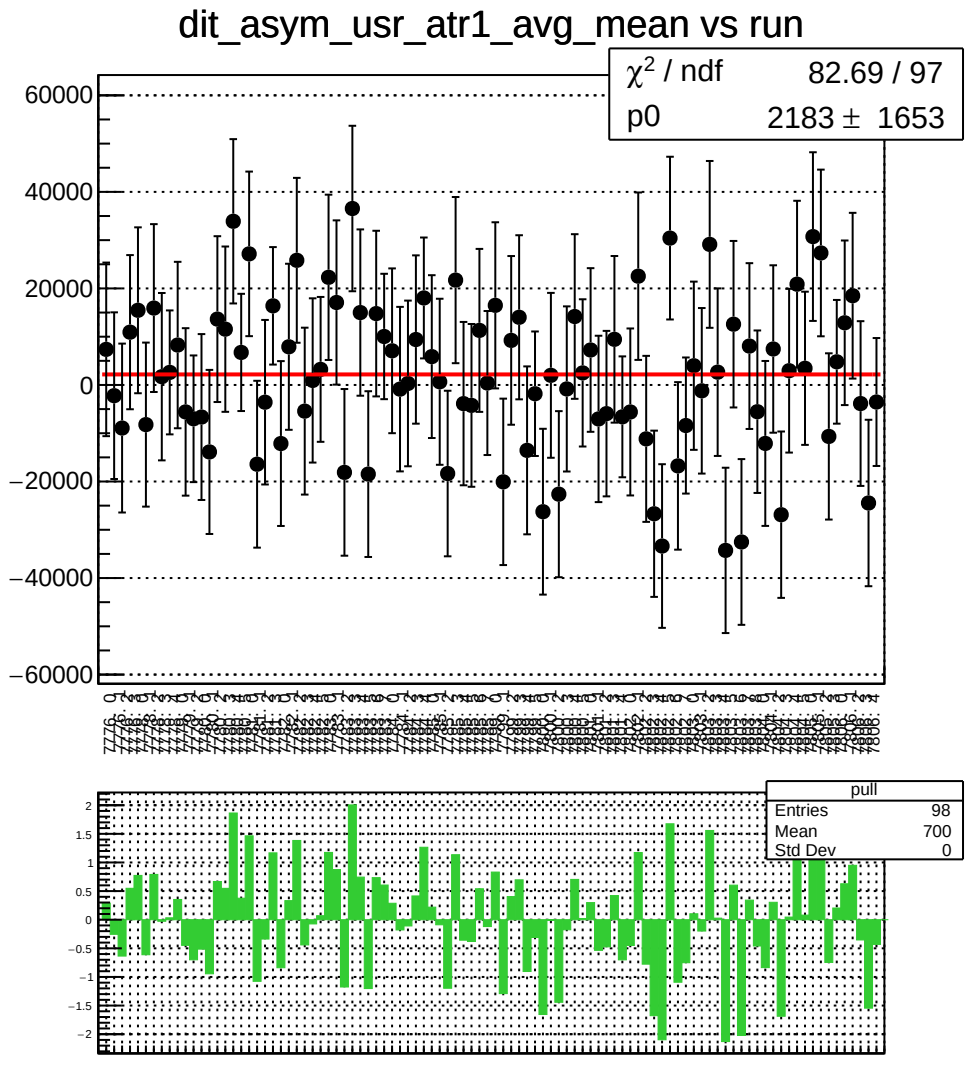

pull1D
Entries 98
Mean −0.004692
Std Dev 0.9086

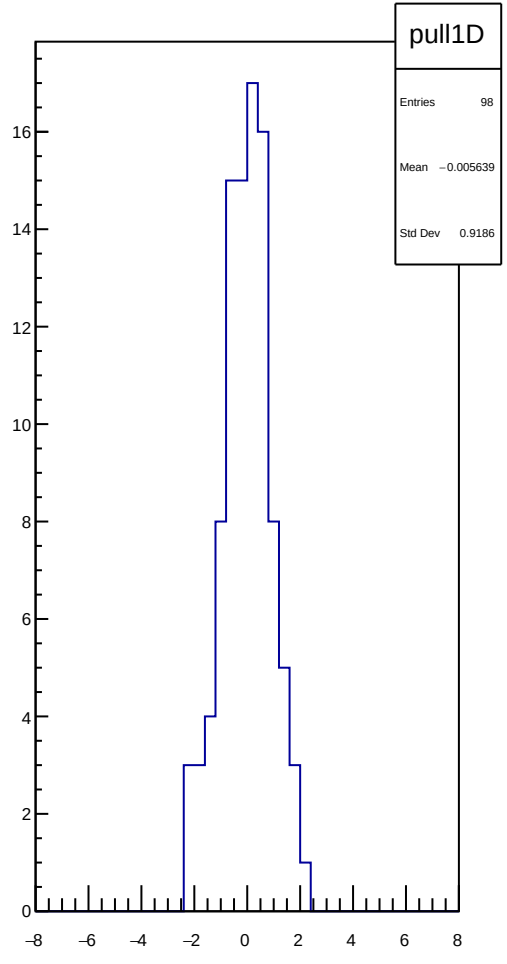

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 142.6 / 97
p0 1624 ± 1.165
1700
1680
1660
1640
1620
1600
1580

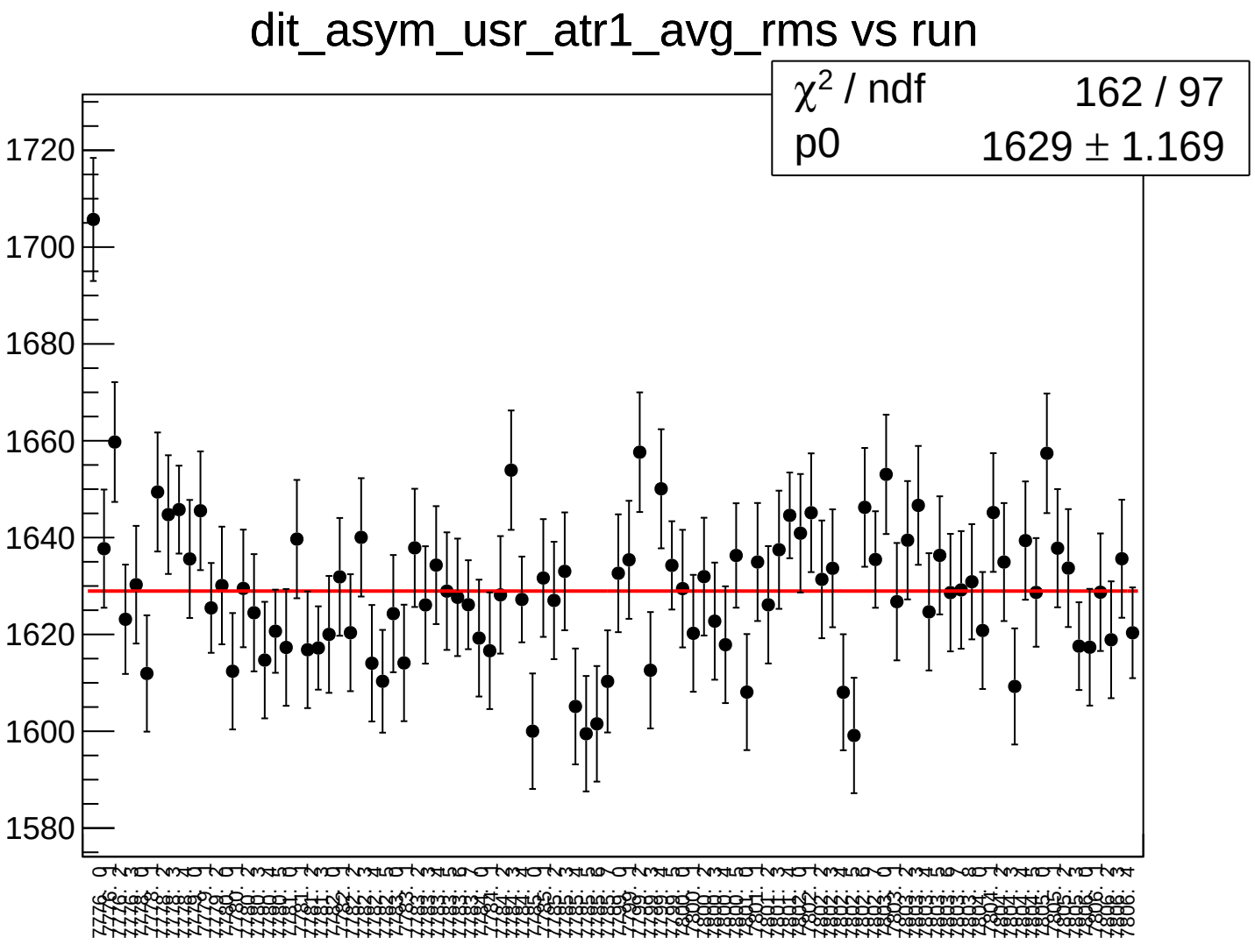

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.58 / 97
p0 1753 ± 1944
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 622.4
Std Dev 0
2
1
0
−1
−2

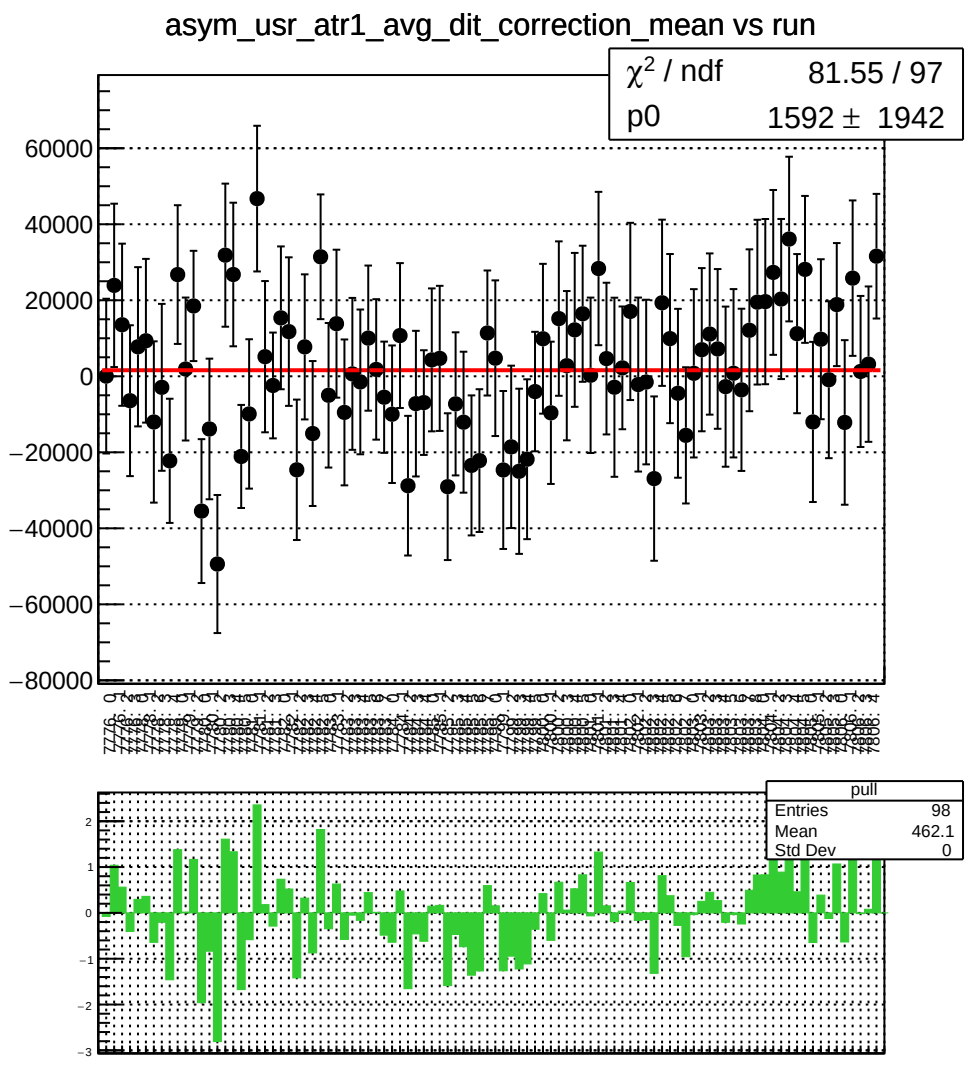

pull1D
Entries 98
Mean 0.00828
Std Dev 0.9123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

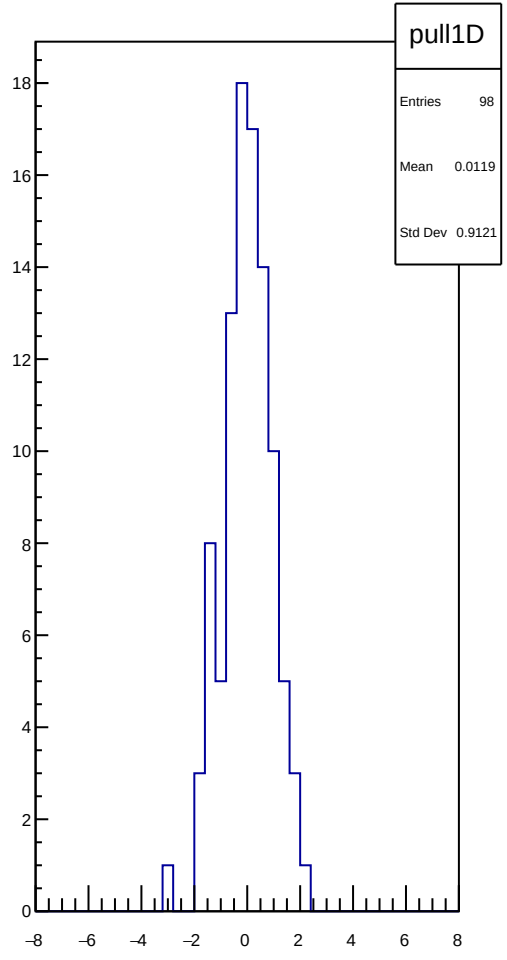

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8571 / 97
p0 1912 ± 1.375
2300
2200
2100
2000
1900
1800
1700
1600

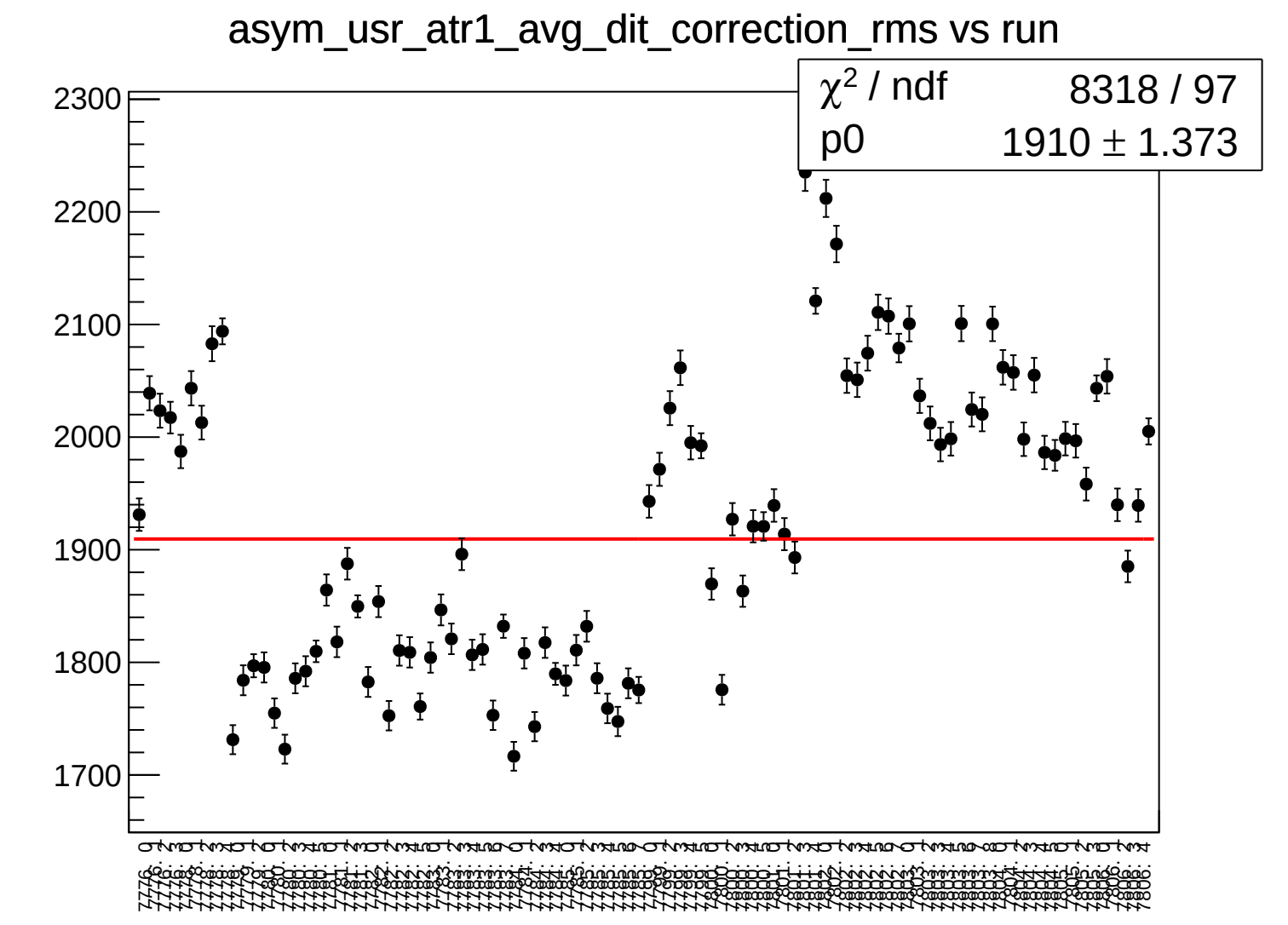

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 82.69 / 97
p0 2183 ± 1653
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 700
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

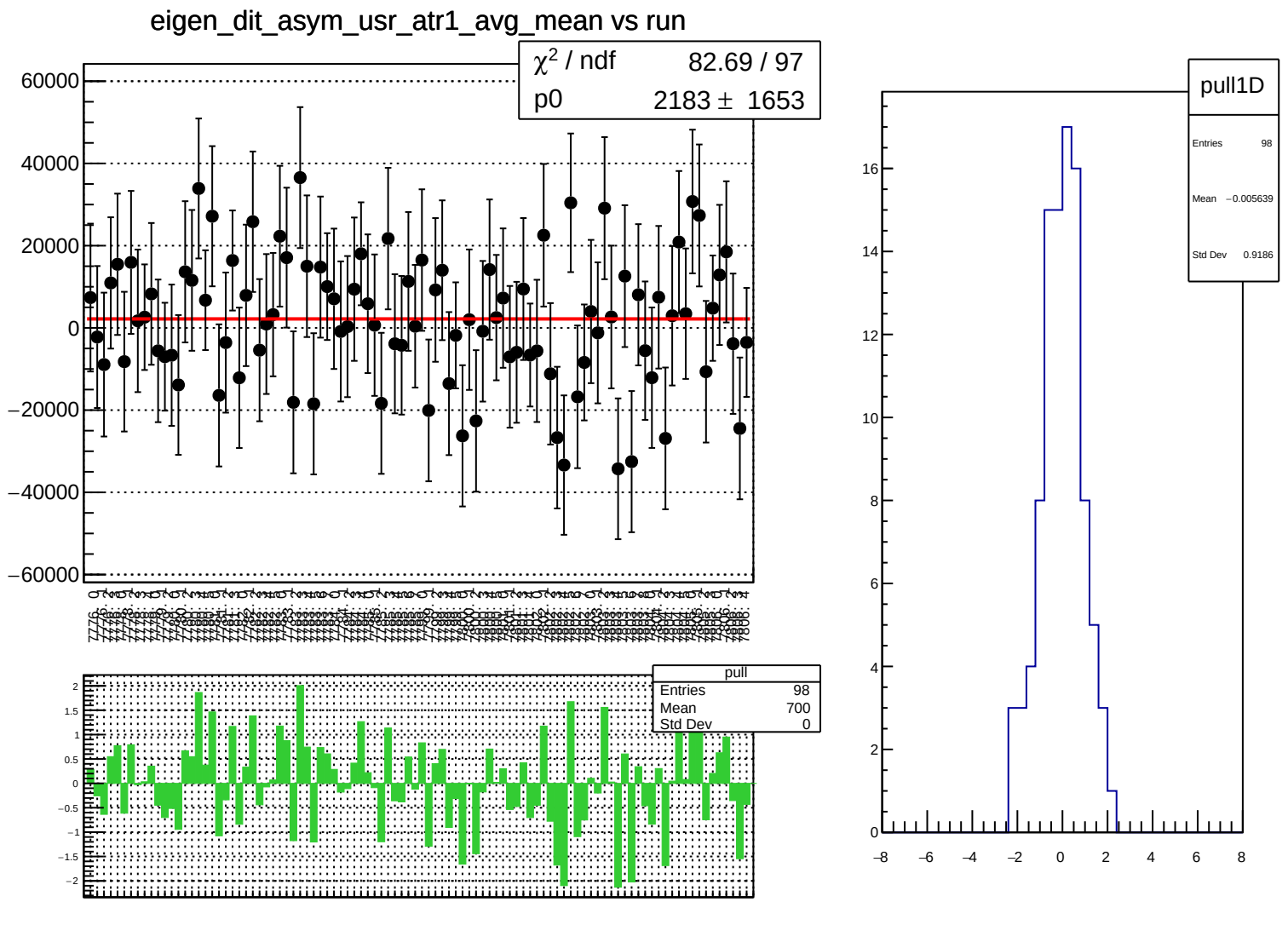

pull1D
Entries 98
Mean −0.005639
Std Dev 0.9186
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

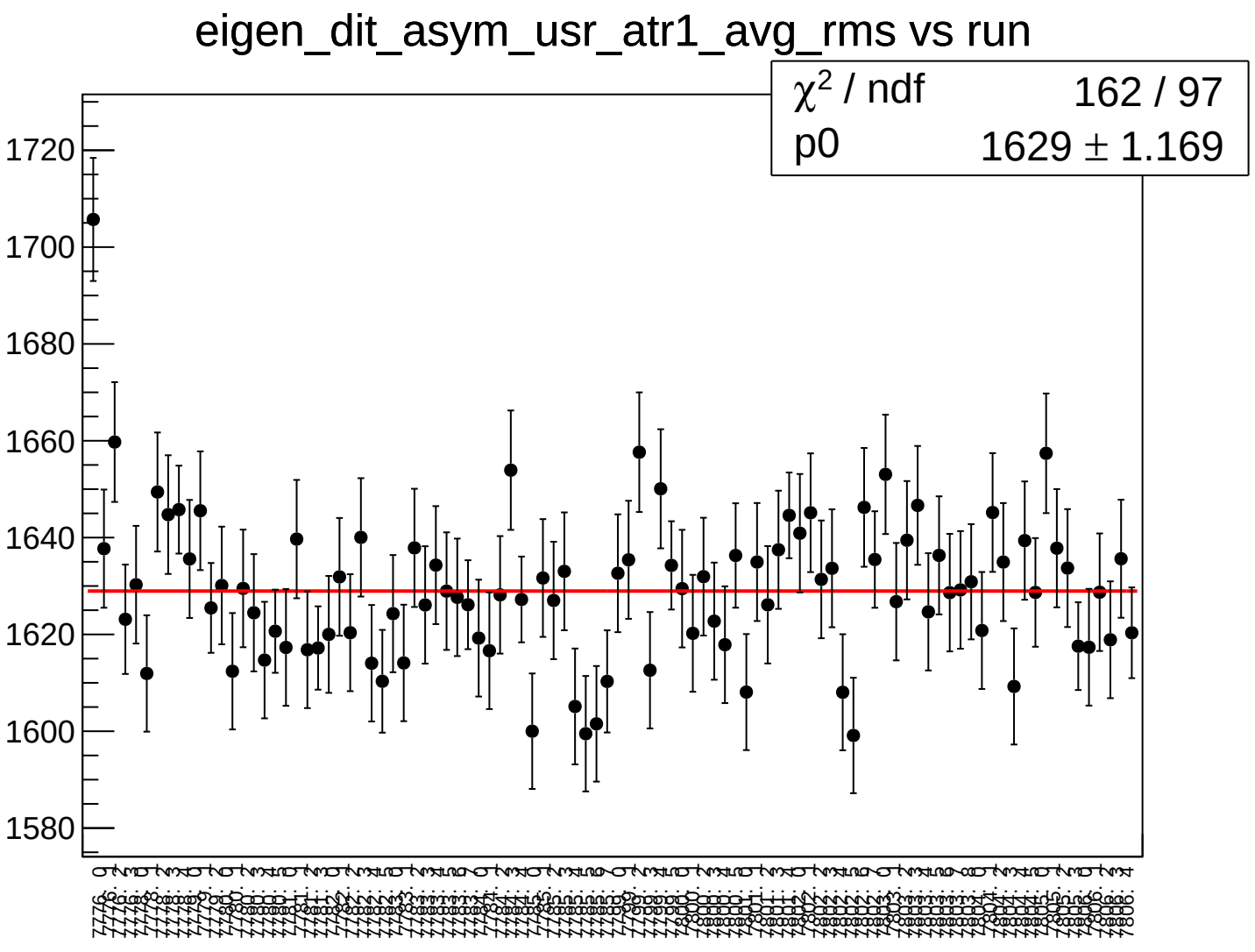

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 162 / 97
p0 1629 ± 1.169
1720
1700
1680
1660
1640
1620
1600
1580

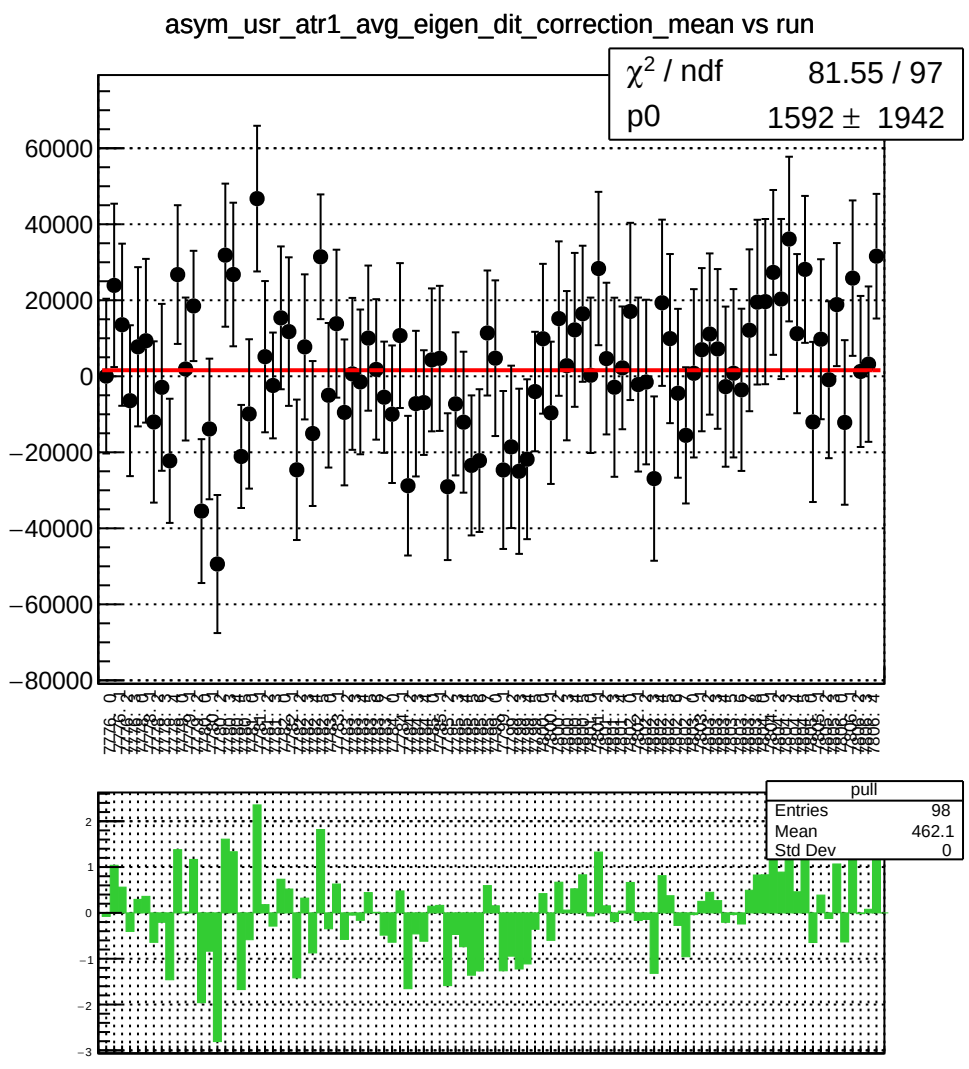

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 81.55 / 97
p0 1592 ± 1942
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 462.1
Std Dev 0
2
1
0
−1
−2
−3

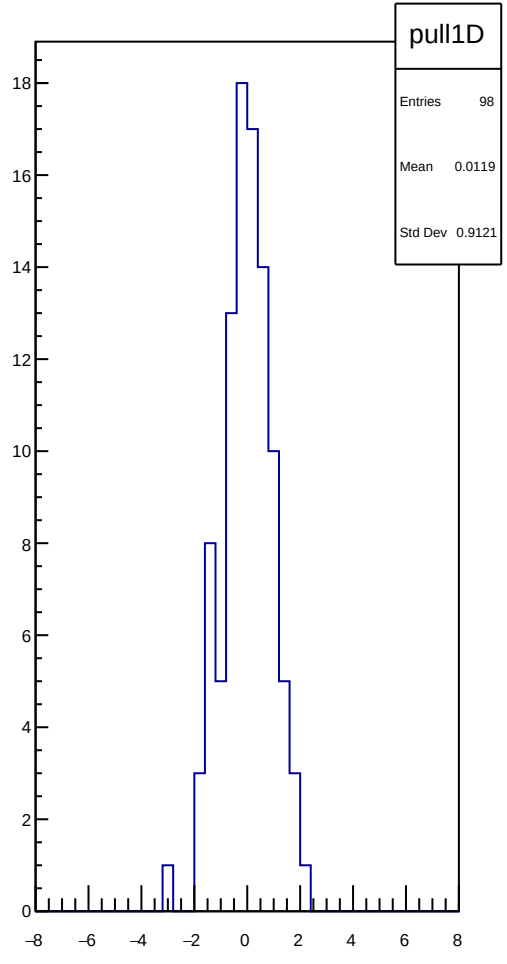

pull1D
Entries 98
Mean 0.0119
Std Dev 0.9121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

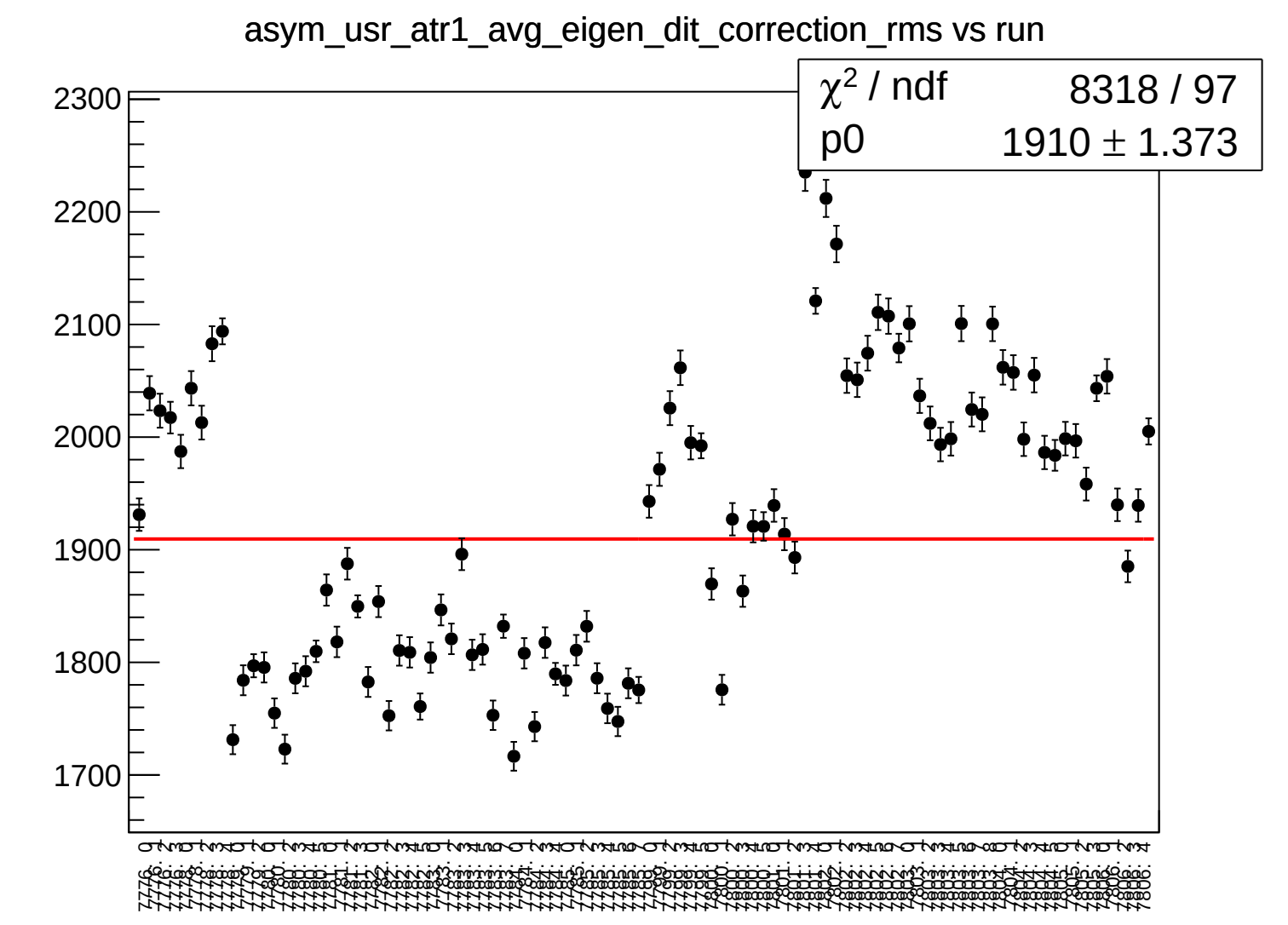

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 8318 / 97
p0 1910 ± 1.373
2300
2200
2100
2000
1900
1800
1700

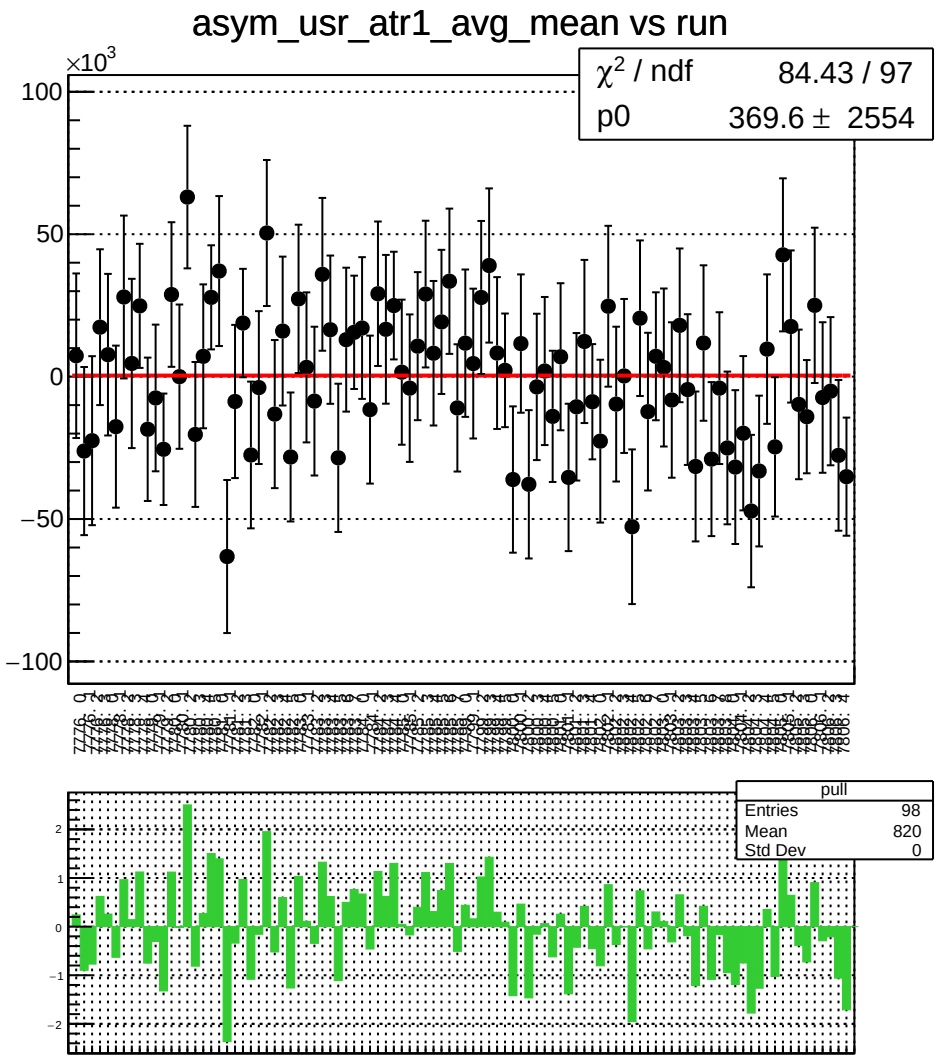

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 82.69 / 97
p0 2183 ± 1653
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 700
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.005639
Std Dev 0.9186
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

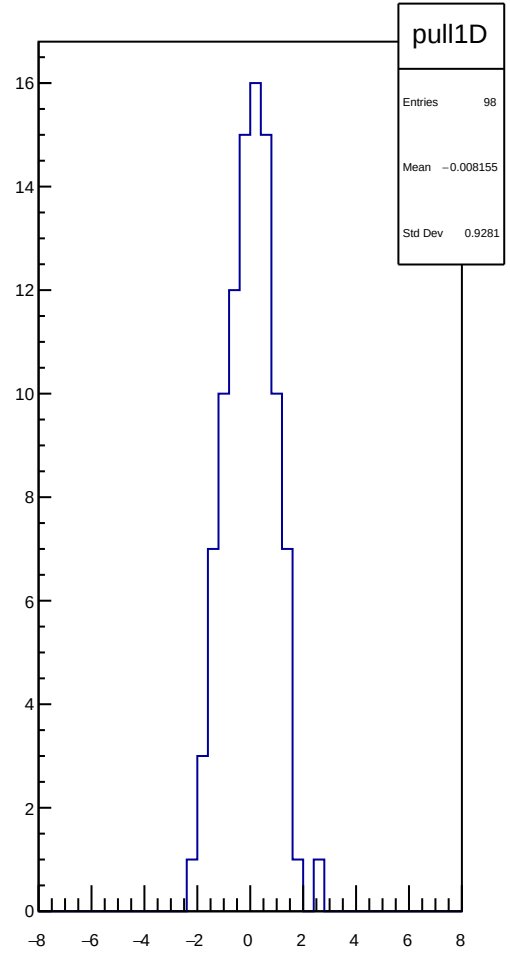

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 162 / 97
p0 1629 ± 1.169
1720
1700
1680
1660
1640
1620
1600
1580

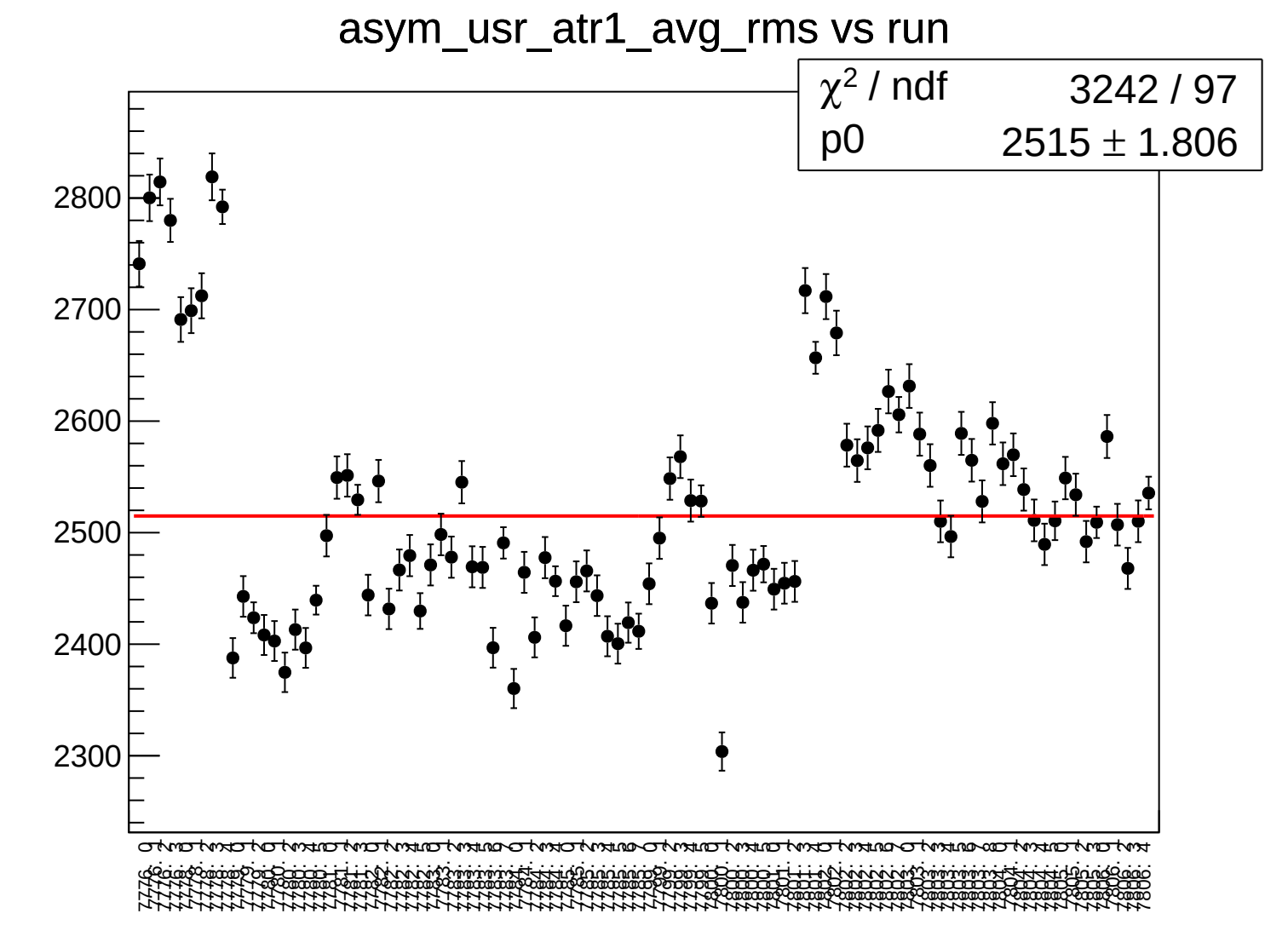

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.55 / 97
p0 1592 ± 1942
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 462.1
Std Dev 0
2
1
0
−1
−2
−3

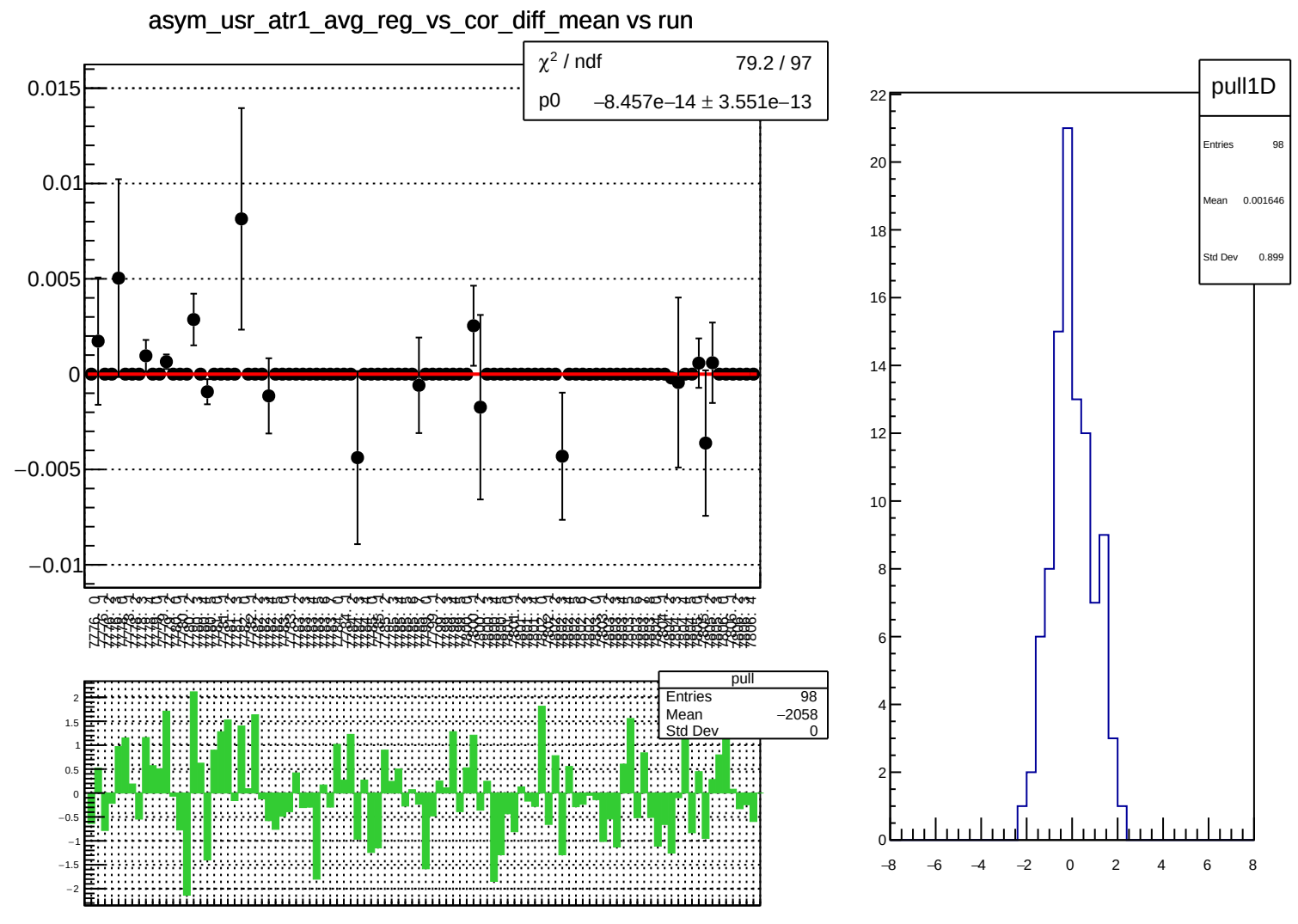

pull1D
Entries 98
Mean 0.0119
Std Dev 0.9121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

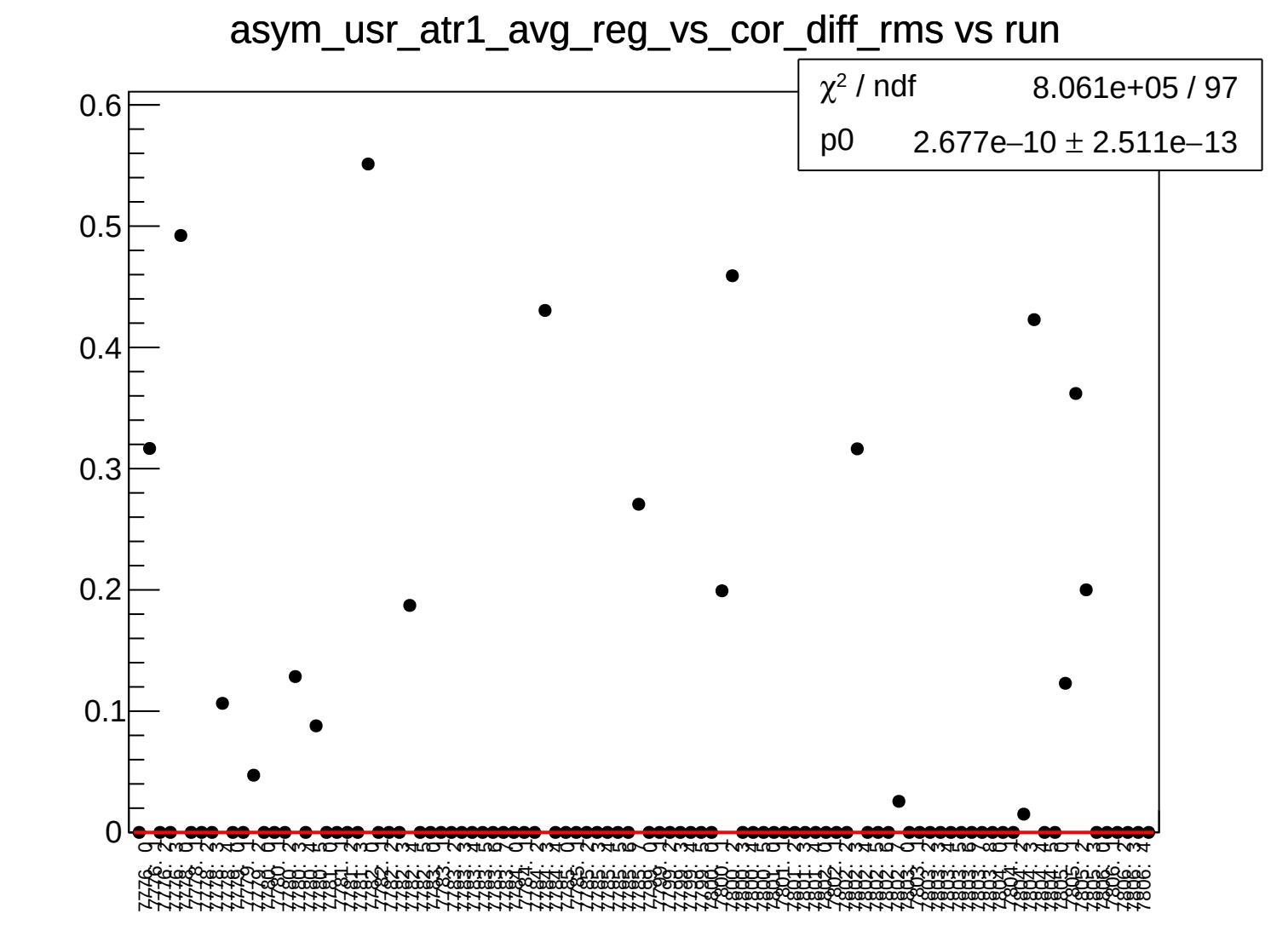

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8318 / 97
p0 1910 ± 1.373
2300
2200
2100
2000
1900
1800
1700

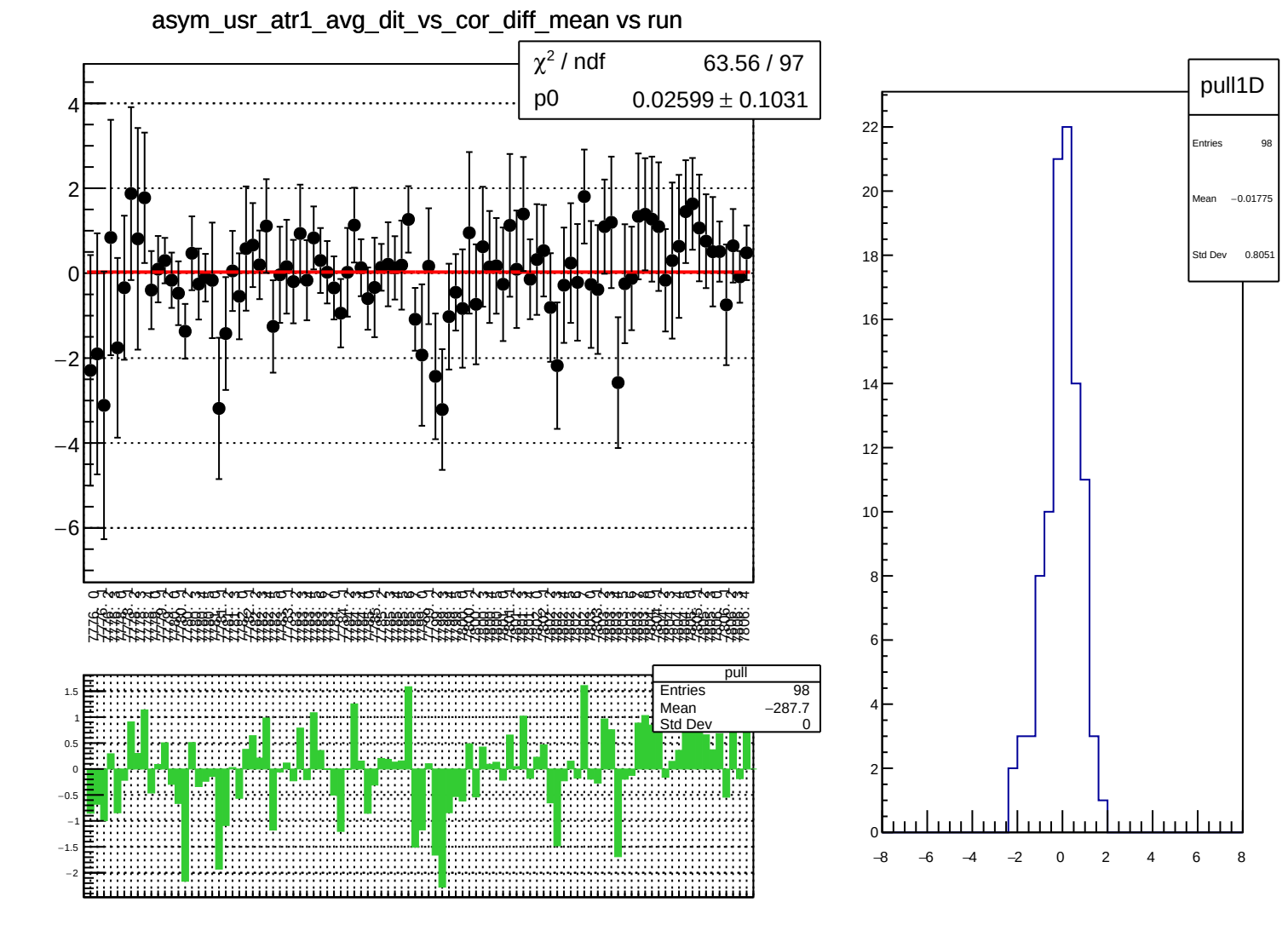

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 84.43 / 97
p0 369.6 ± 2554
100
50
0
−50
−100
pull
Entries 98
Mean 820
Std Dev 0
2
1
0
−1
−2

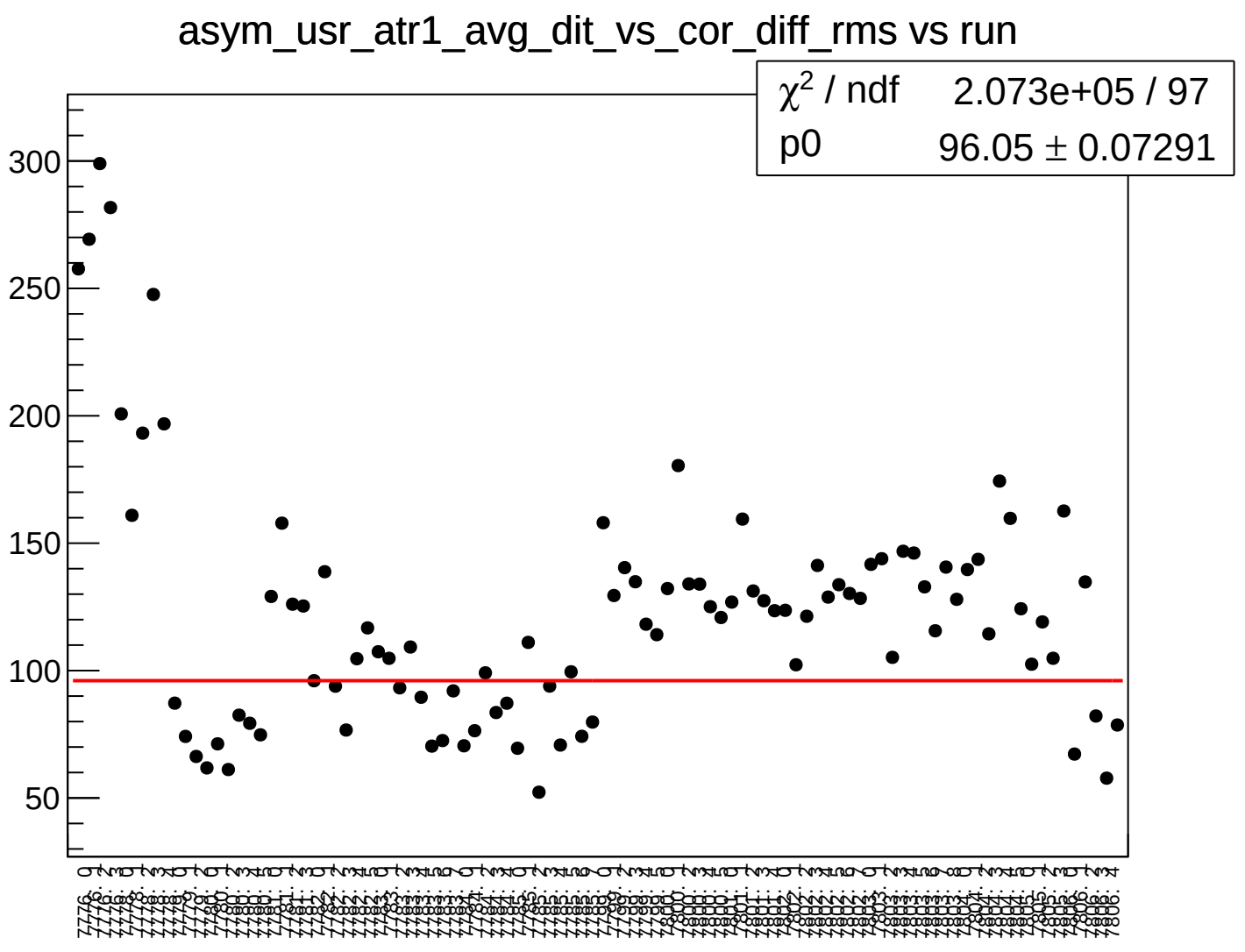

pull1D
Entries 98
Mean −0.008155
Std Dev 0.9281
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

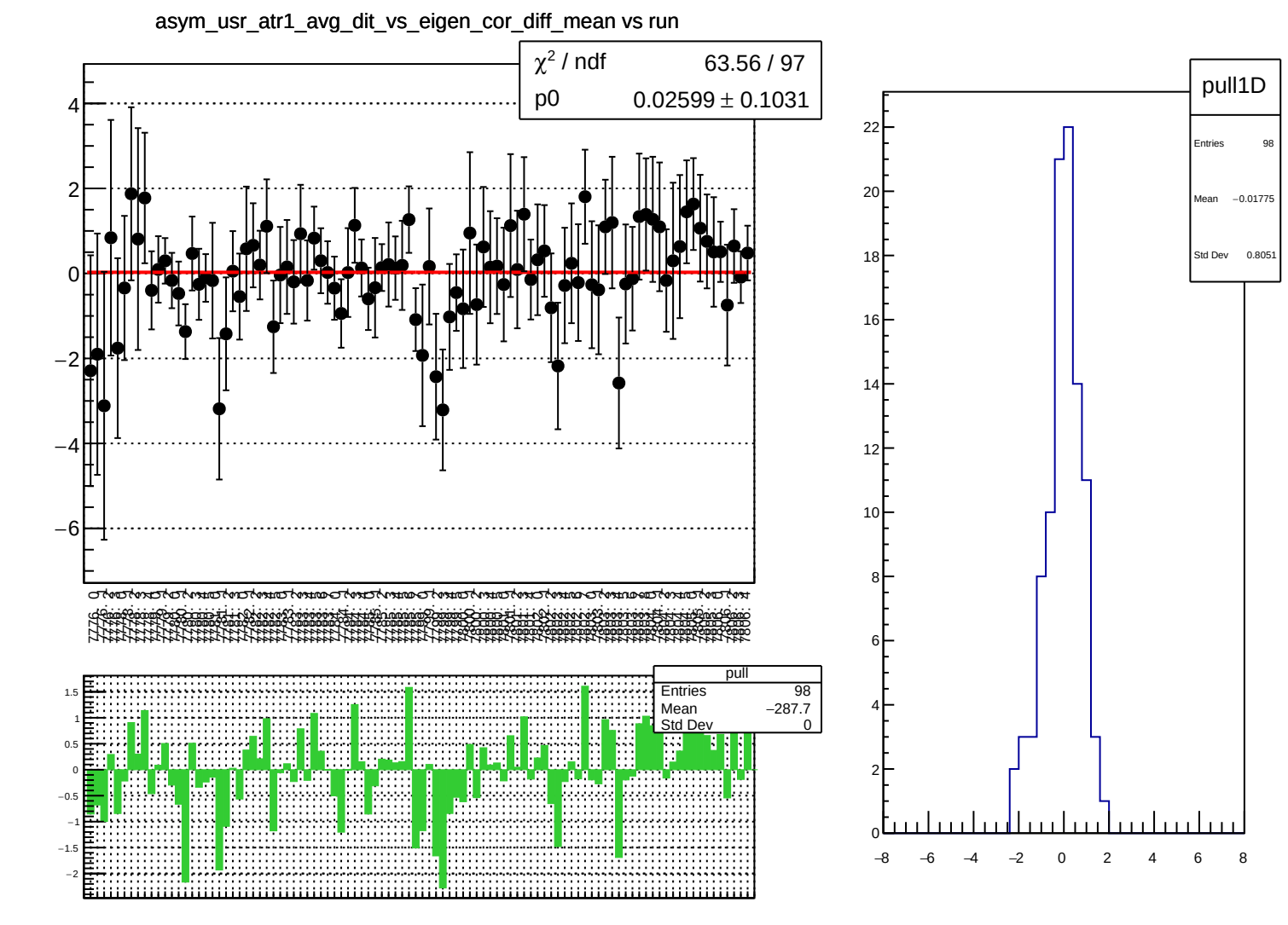

asym_usr_atr1_avg_rms vs run
χ² / ndf 3242 / 97
p0 2515 ± 1.806
2800
2700
2600
2500
2400
2300

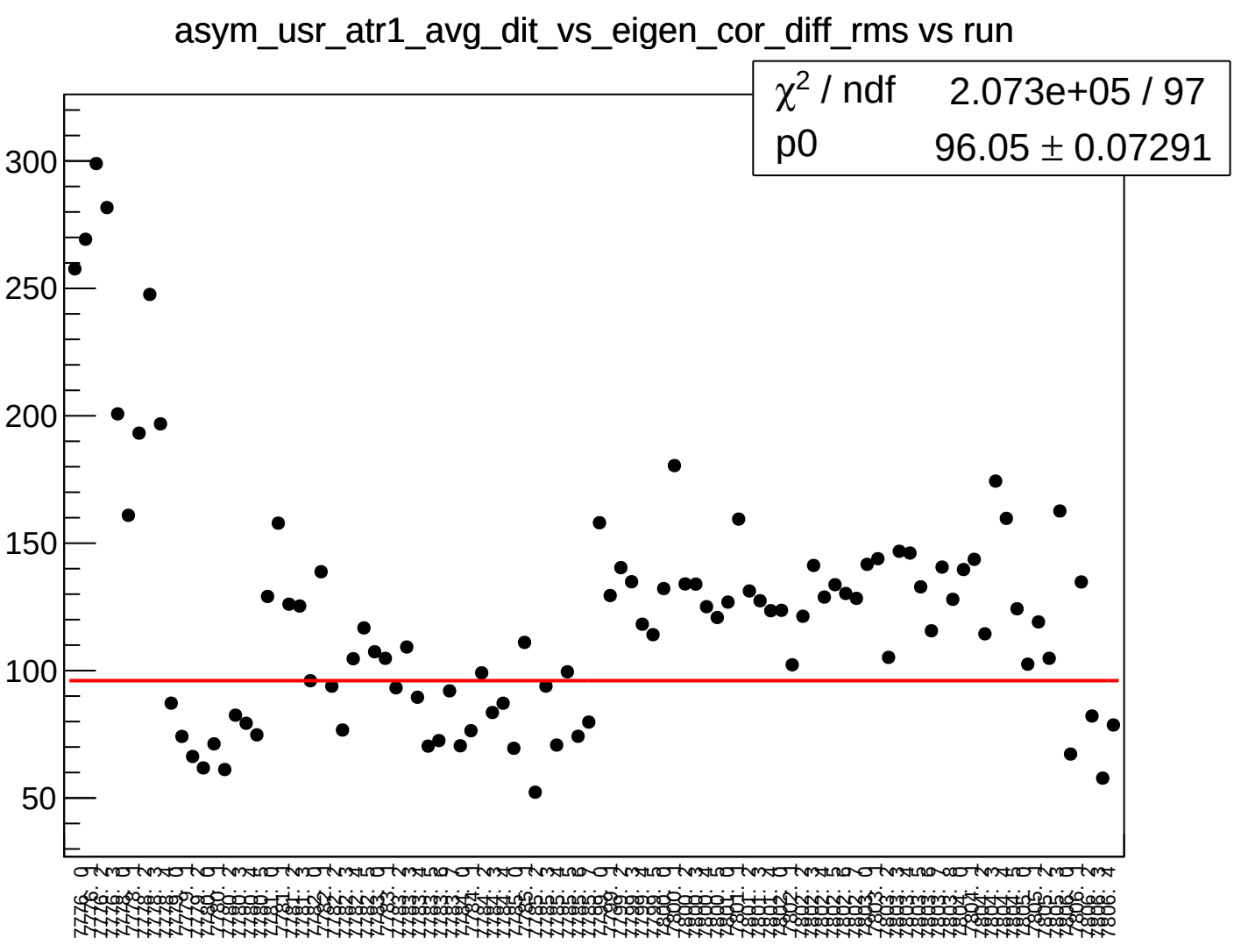

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.2 / 97
p0 −8.457e−14 ± 3.551e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 98
Mean −2058
Std Dev 0
pull1D
Entries 98
Mean 0.001646
Std Dev 0.899

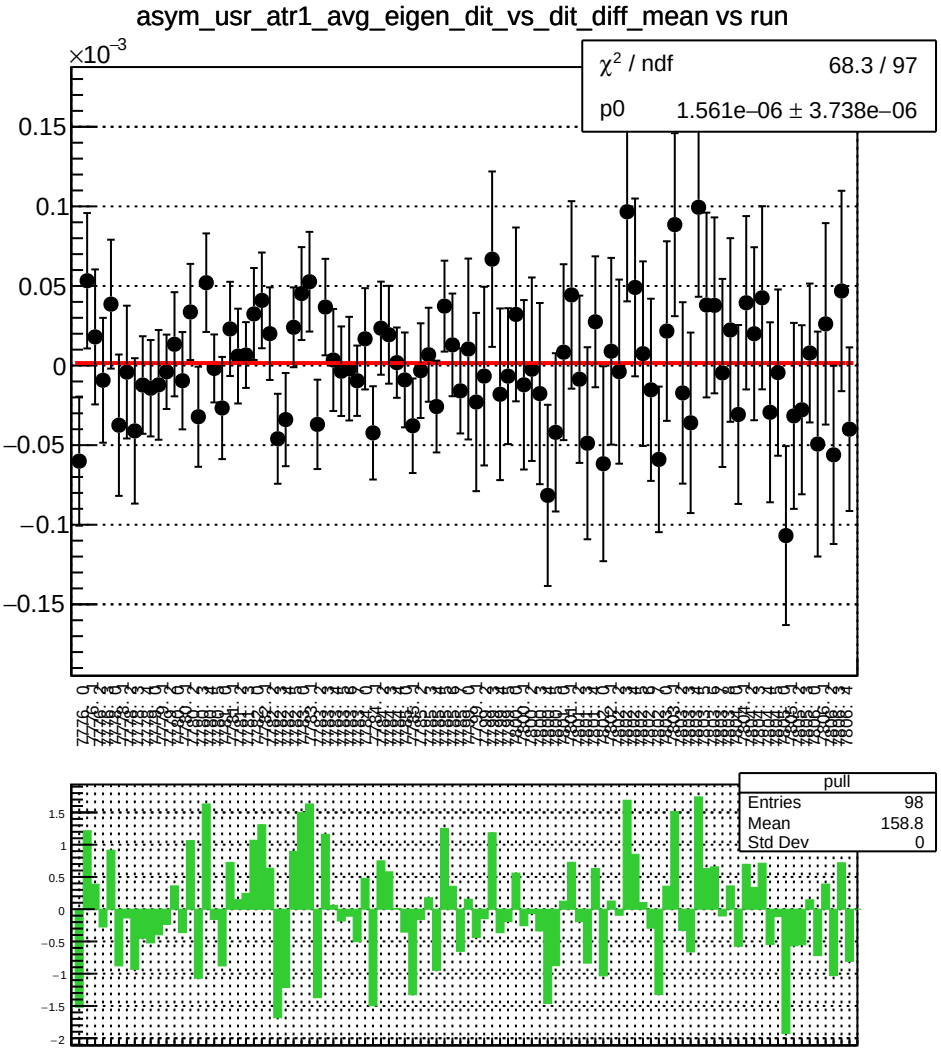

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.061e+05 / 97
p0 2.677e−10 ± 2.511e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

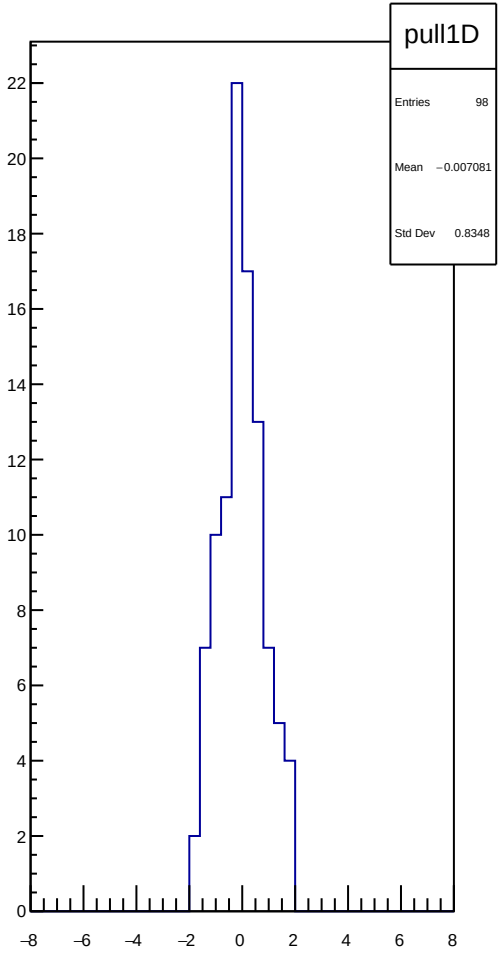

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 63.56 / 97
p0 0.02599 ± 0.1031
pull
Entries 98
Mean −287.7
Std Dev 0
pull1D
Entries 98
Mean −0.01775
Std Dev 0.8051

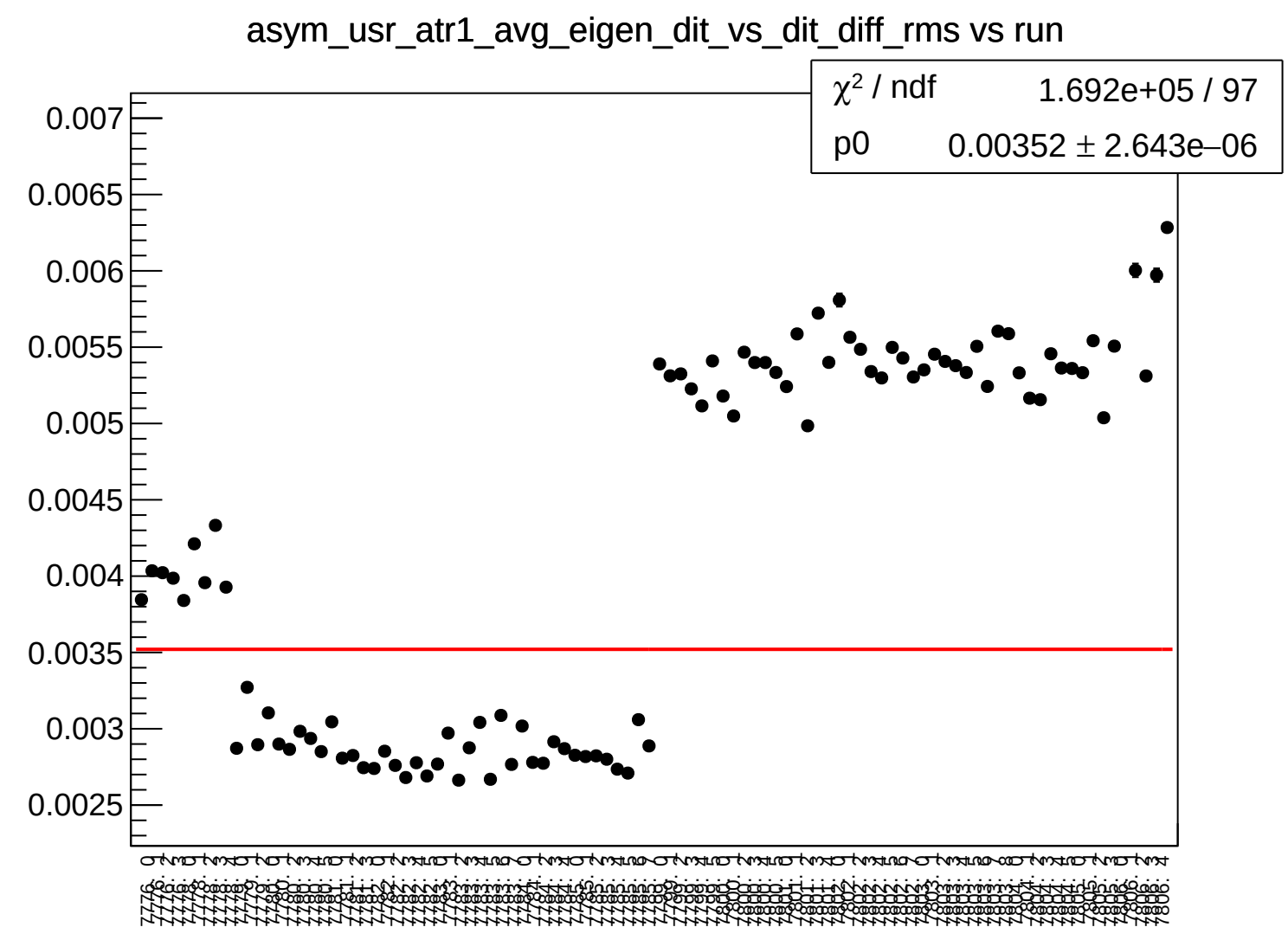

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.073e+05 / 97
p0 96.05 ± 0.07291
300
250
200
150
100
50

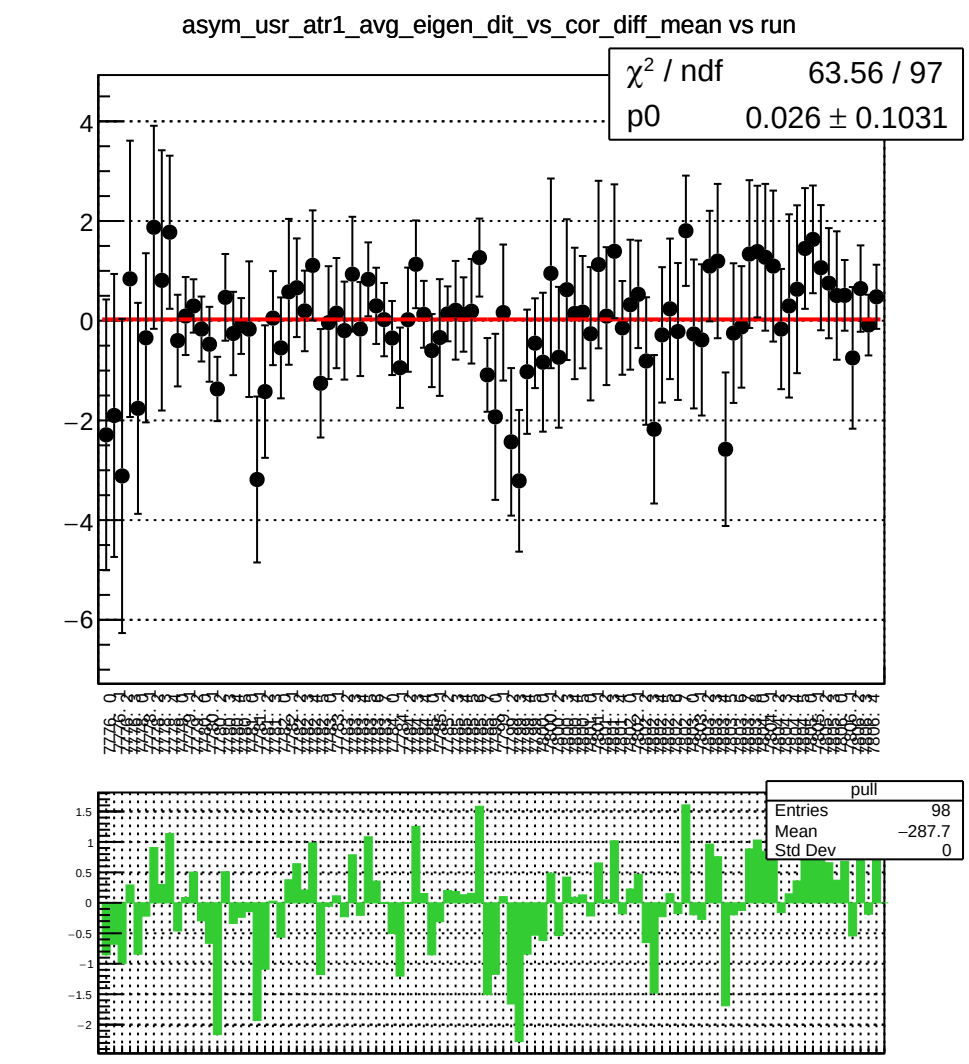

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.56 / 97
p0 0.02599 ± 0.1031
pull
Entries 98
Mean −287.7
Std Dev 0
pull1D
Entries 98
Mean −0.01775
Std Dev 0.8051

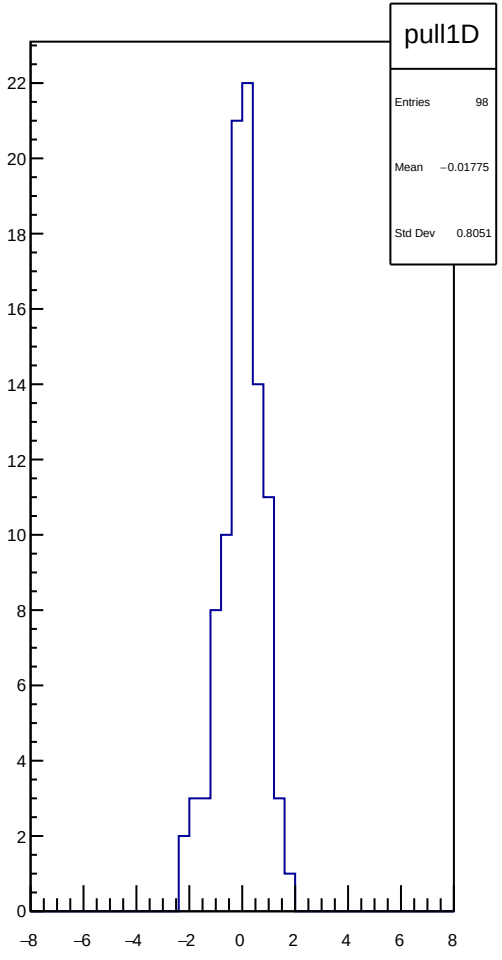

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.073e+05 / 97
p0 96.05 ± 0.07291
300
250
200
150
100
50

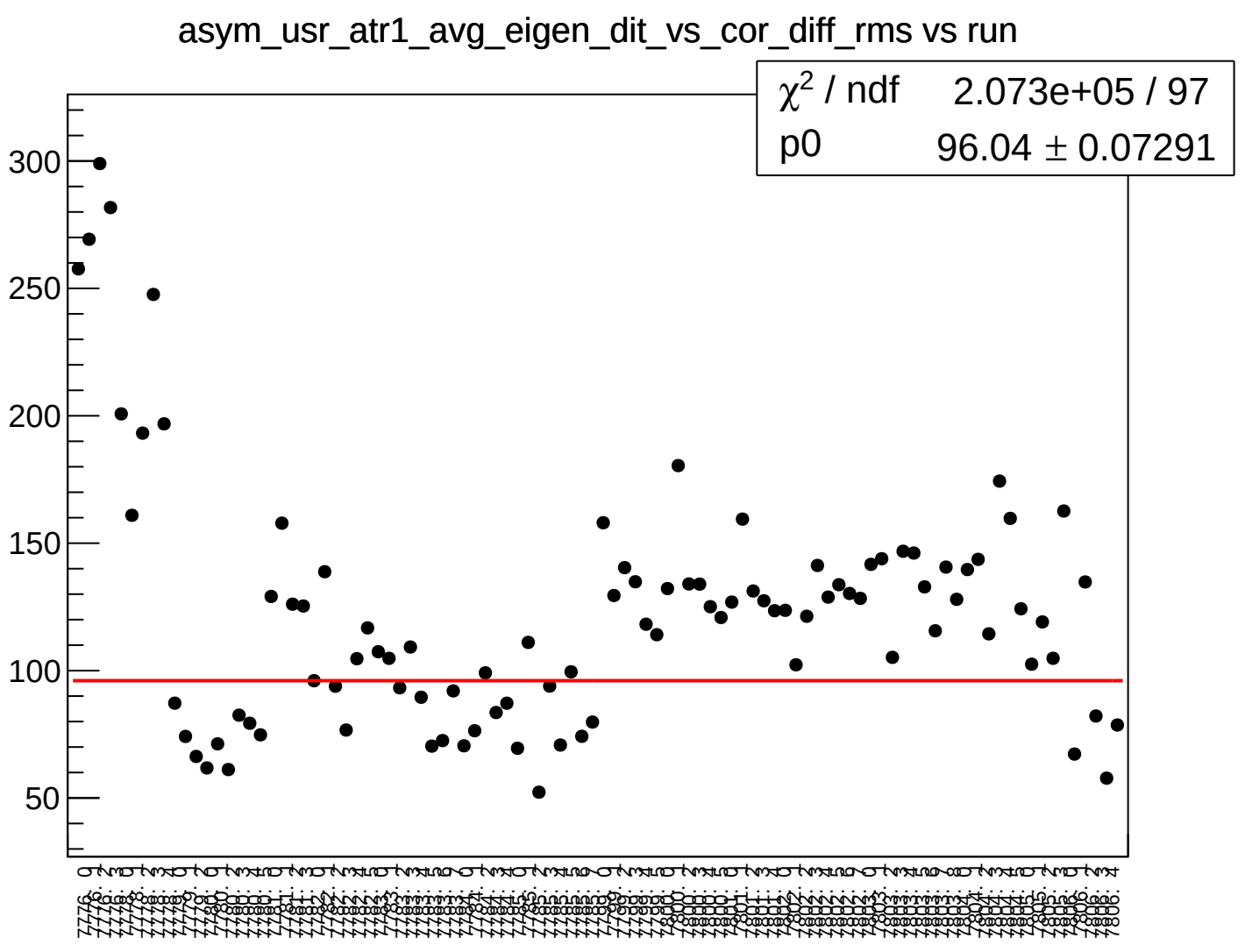

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.3 / 97
p0 1.561e−06 ± 3.738e−06
pull
Entries 98
Mean 158.8
Std Dev 0

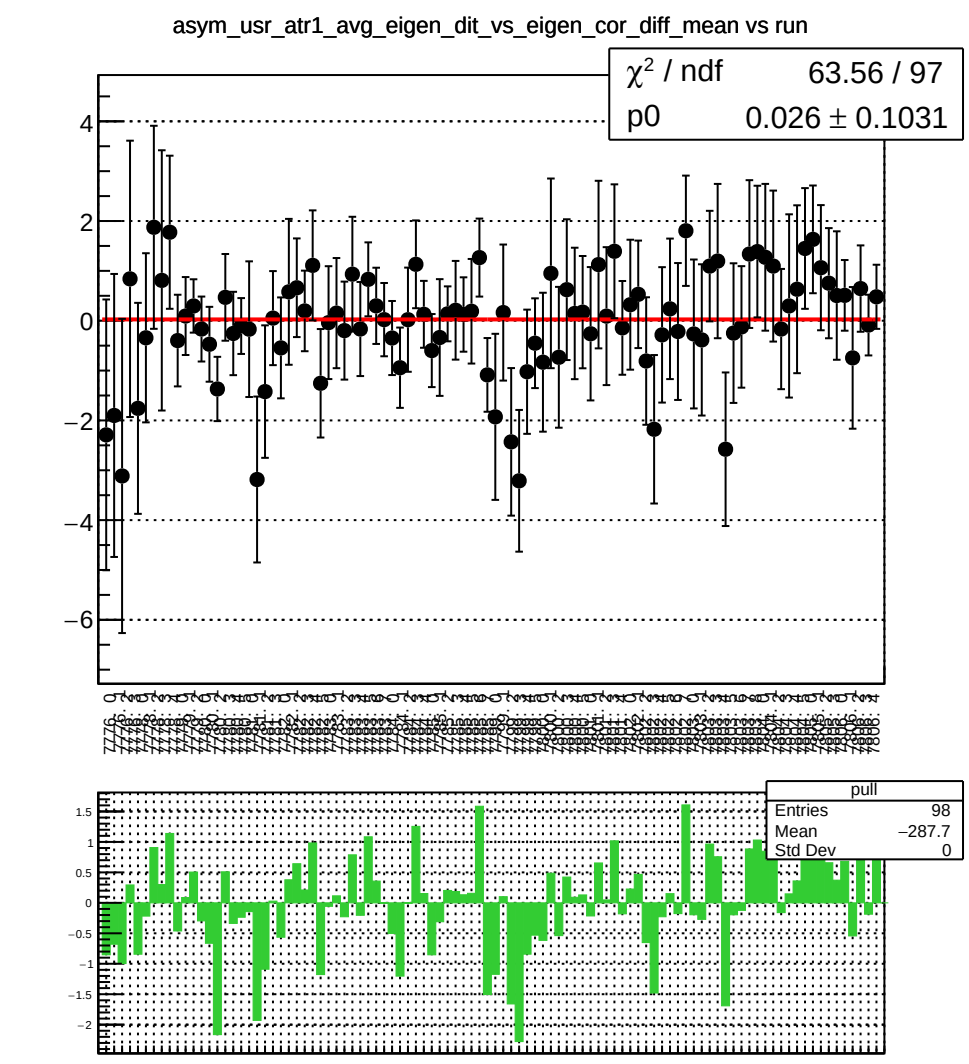

pull1D
Entries 98
Mean −0.007081
Std Dev 0.8348

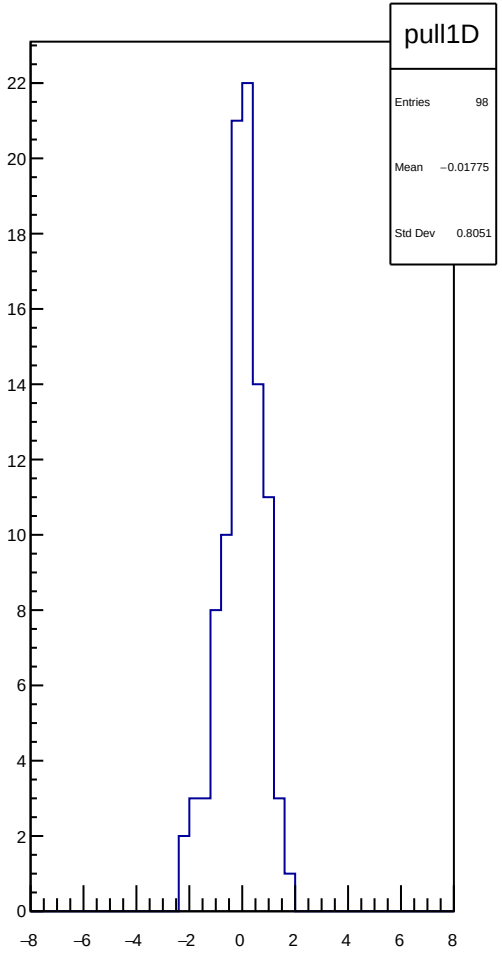

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.692e+05 / 97
p0 0.00352 ± 2.643e–06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

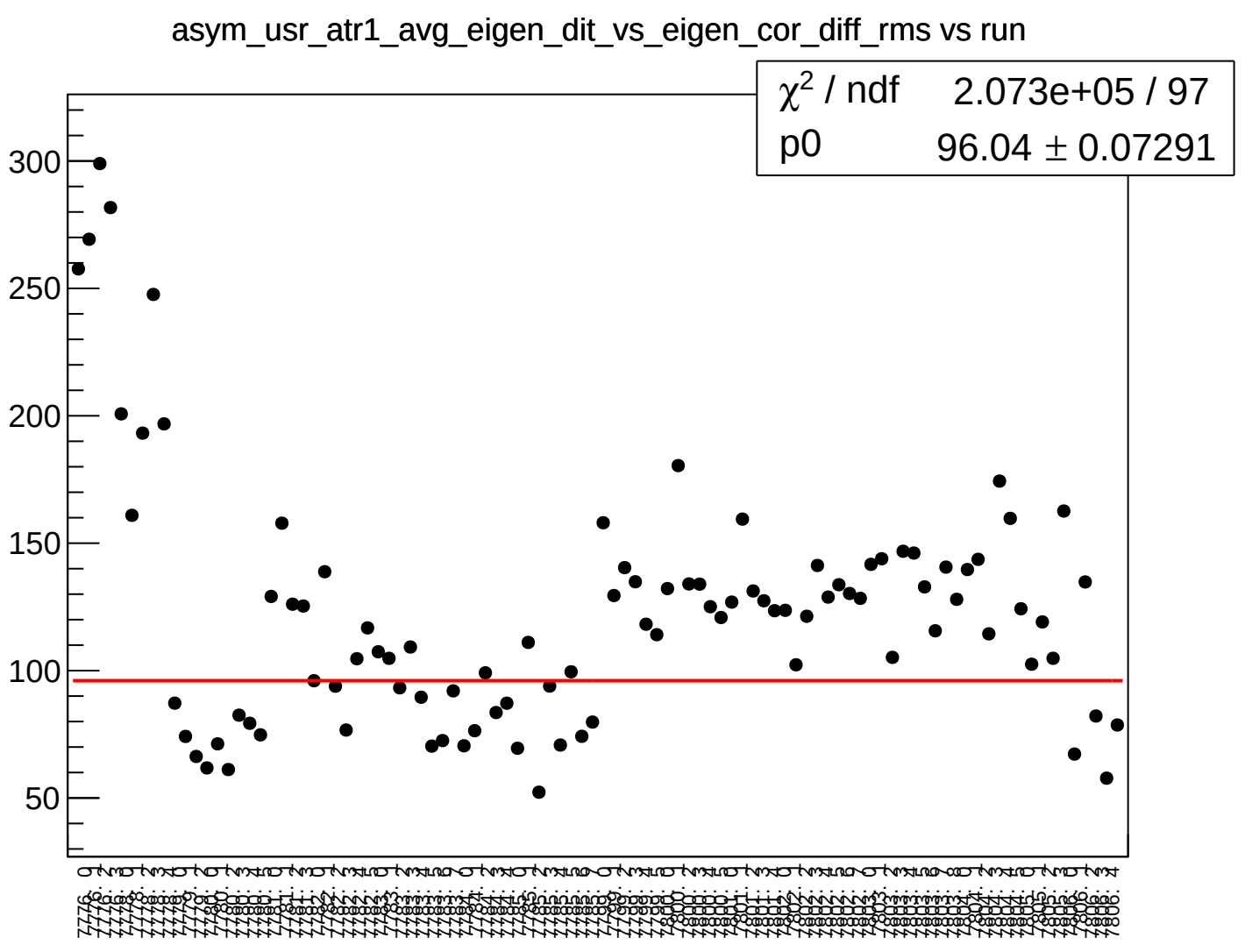

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.56 / 97
p0 0.026 ± 0.1031
pull
Entries 98
Mean −287.7
Std Dev 0

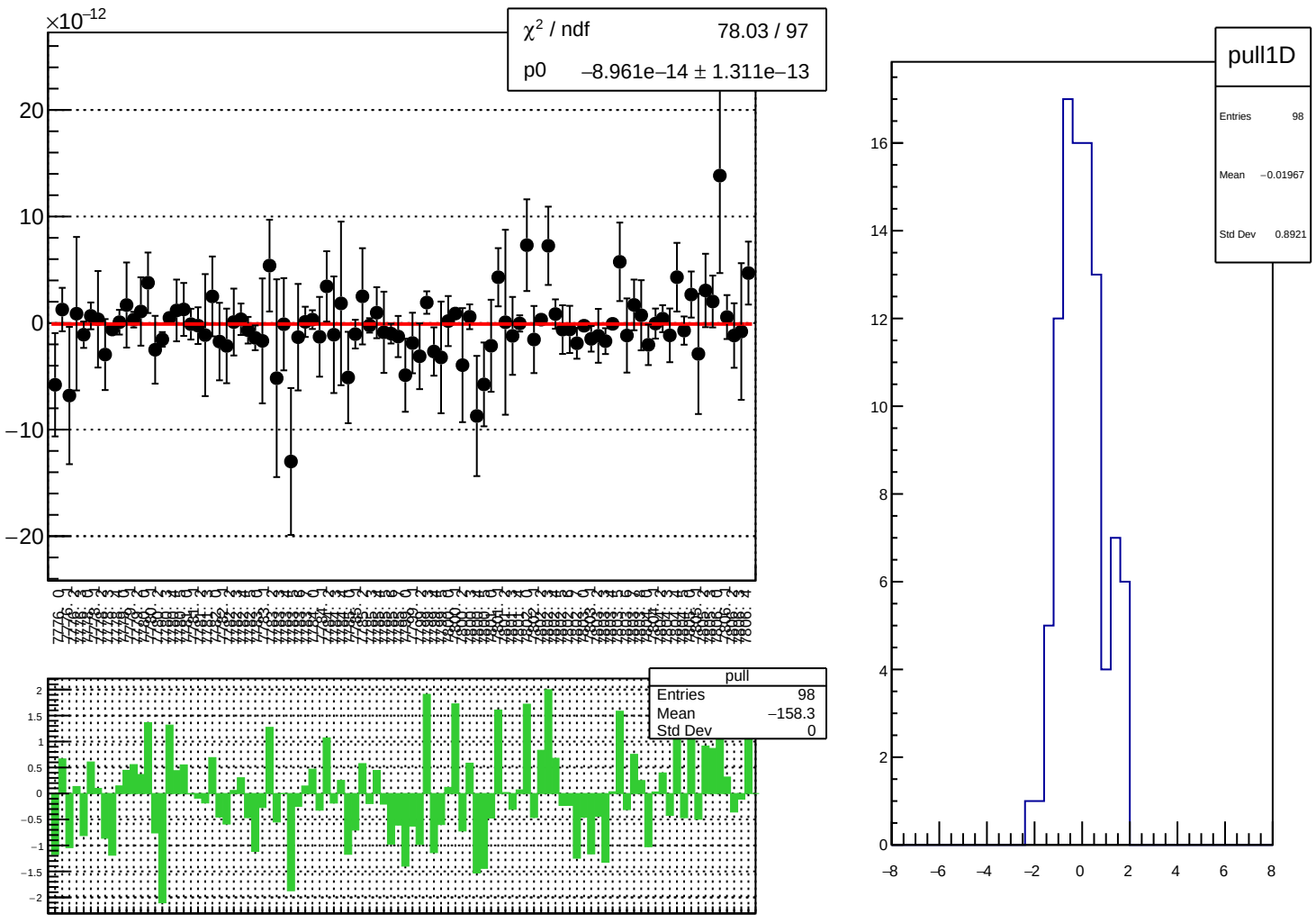

pull1D
Entries 98
Mean −0.01775
Std Dev 0.8051

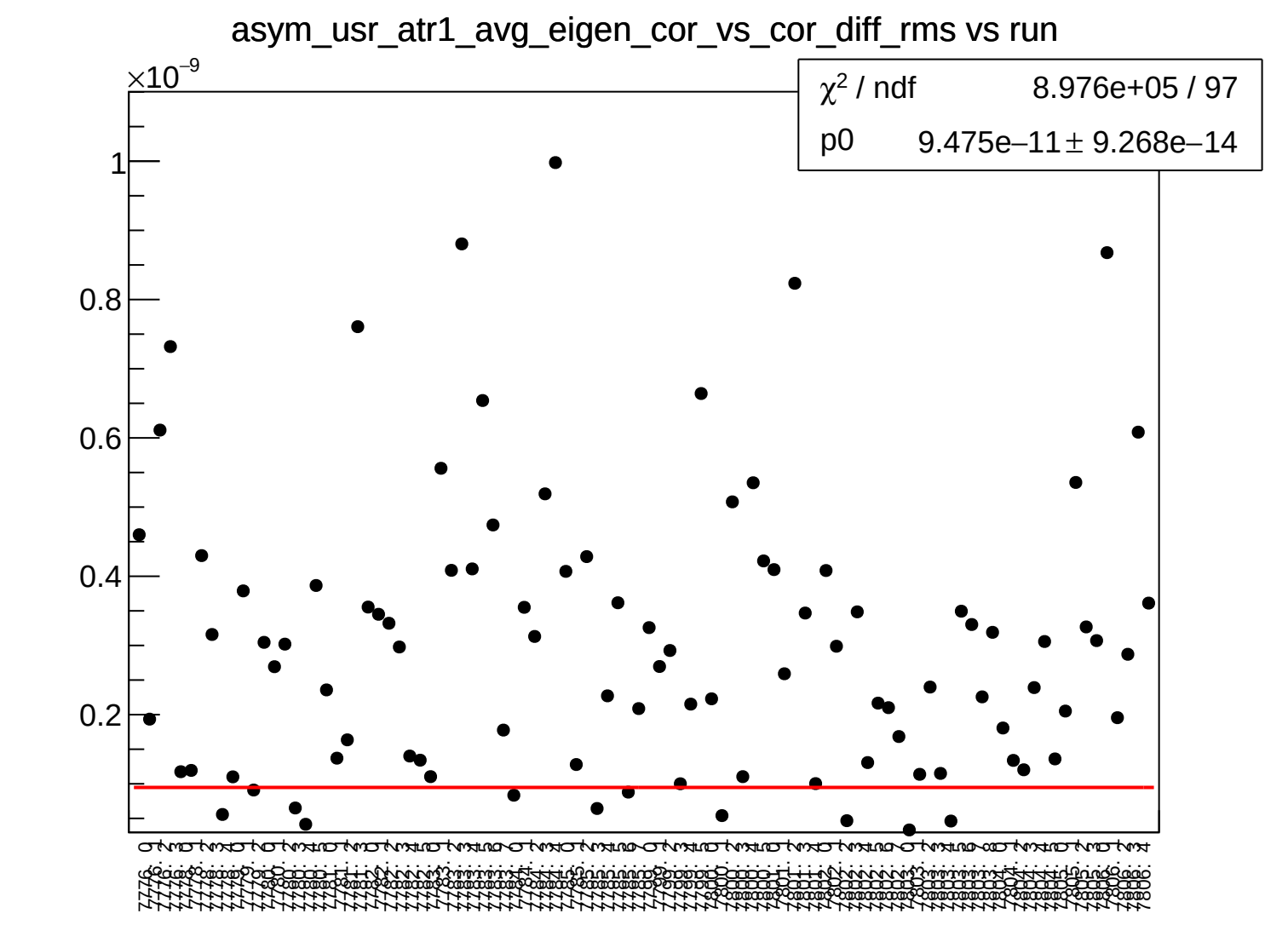

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.073e+05 / 97
p0 96.04 ± 0.07291
300
250
200
150
100
50

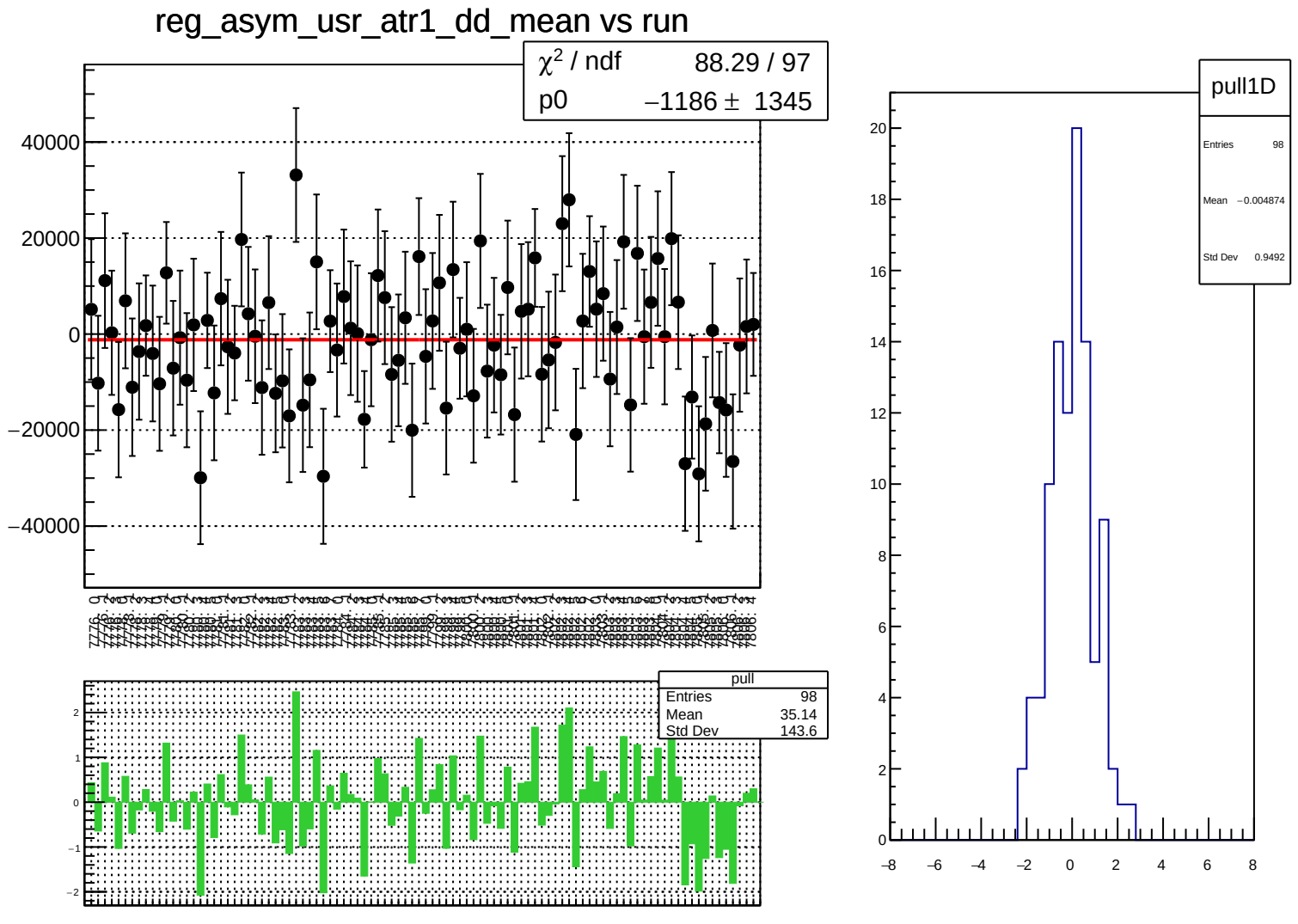

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.56 / 97
p0 0.026 ± 0.1031
pull
Entries 98
Mean −287.7
Std Dev 0

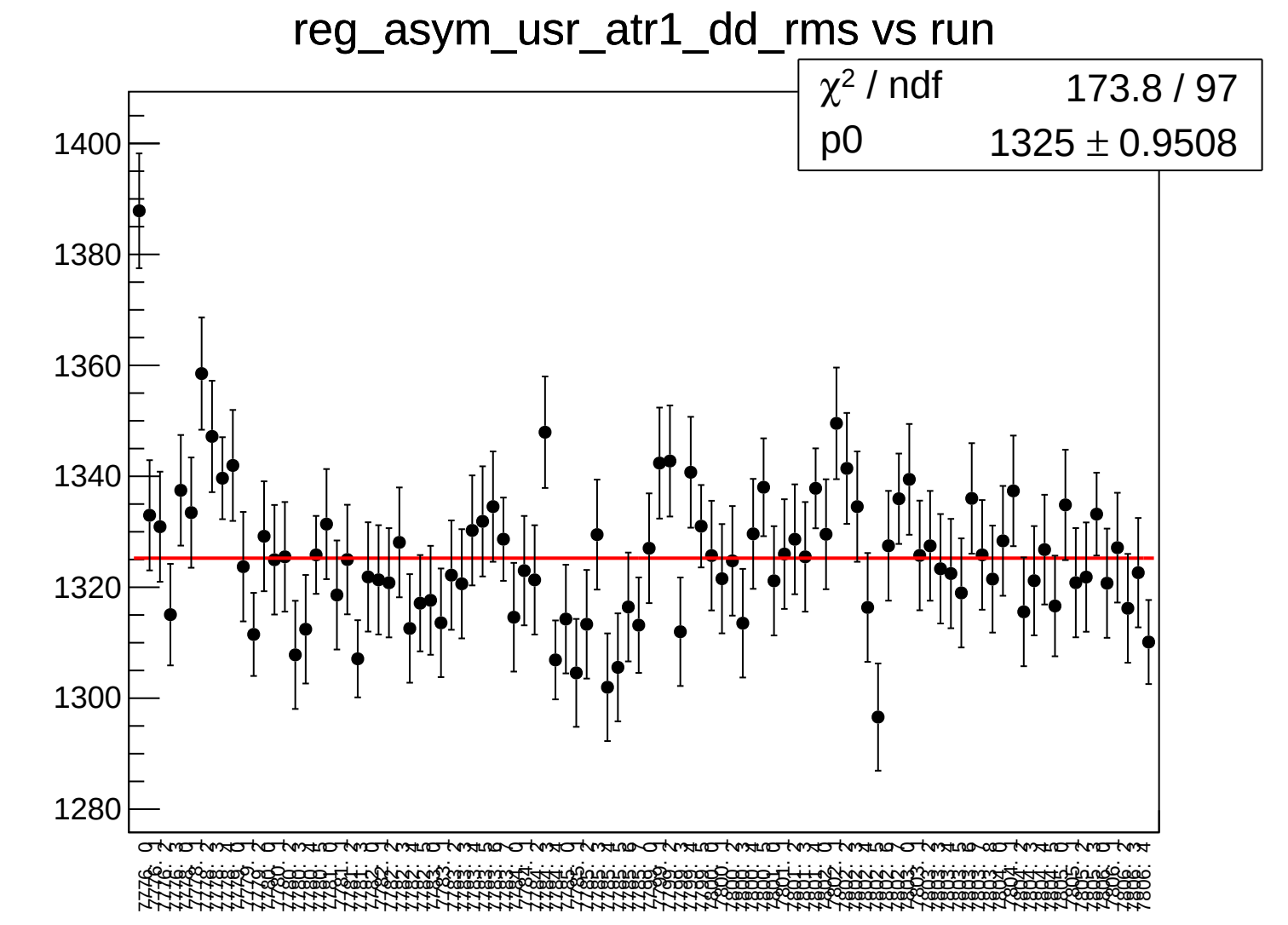

pull1D
Entries 98
Mean −0.01775
Std Dev 0.8051

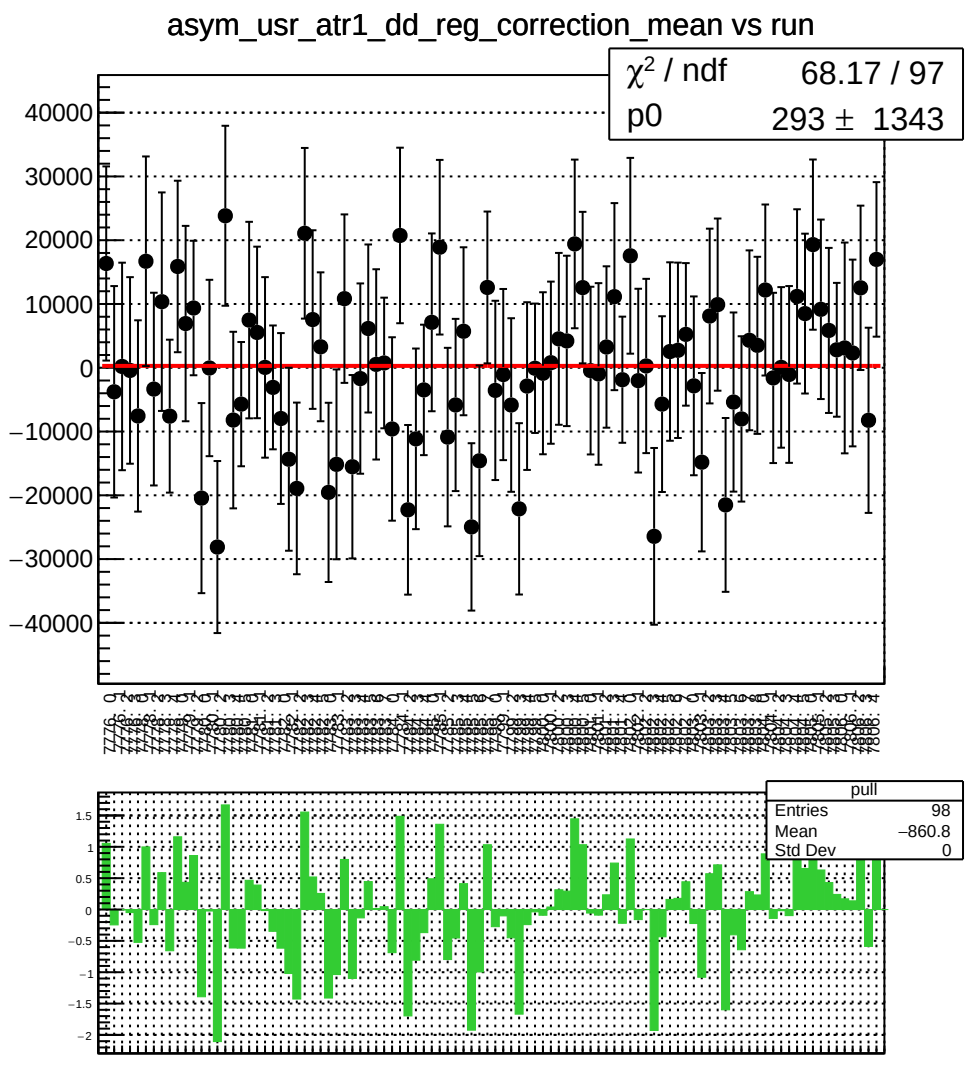

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.073e+05 / 97
p0 96.04 ± 0.07291
300
250
200
150
100
50

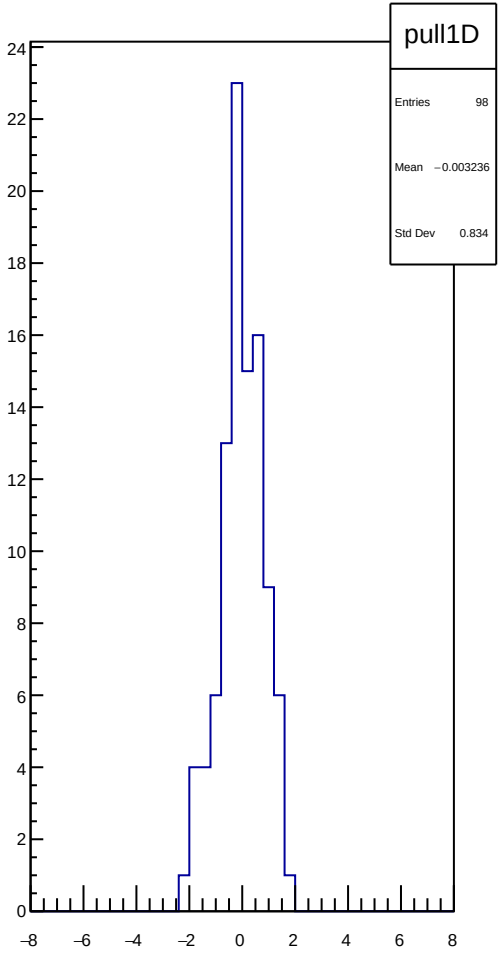

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 78.03 / 97
p0 −8.961e−14 ± 1.311e−13
pull
Entries 98
Mean −158.3
Std Dev 0
pull1D
Entries 98
Mean −0.01967
Std Dev 0.8921

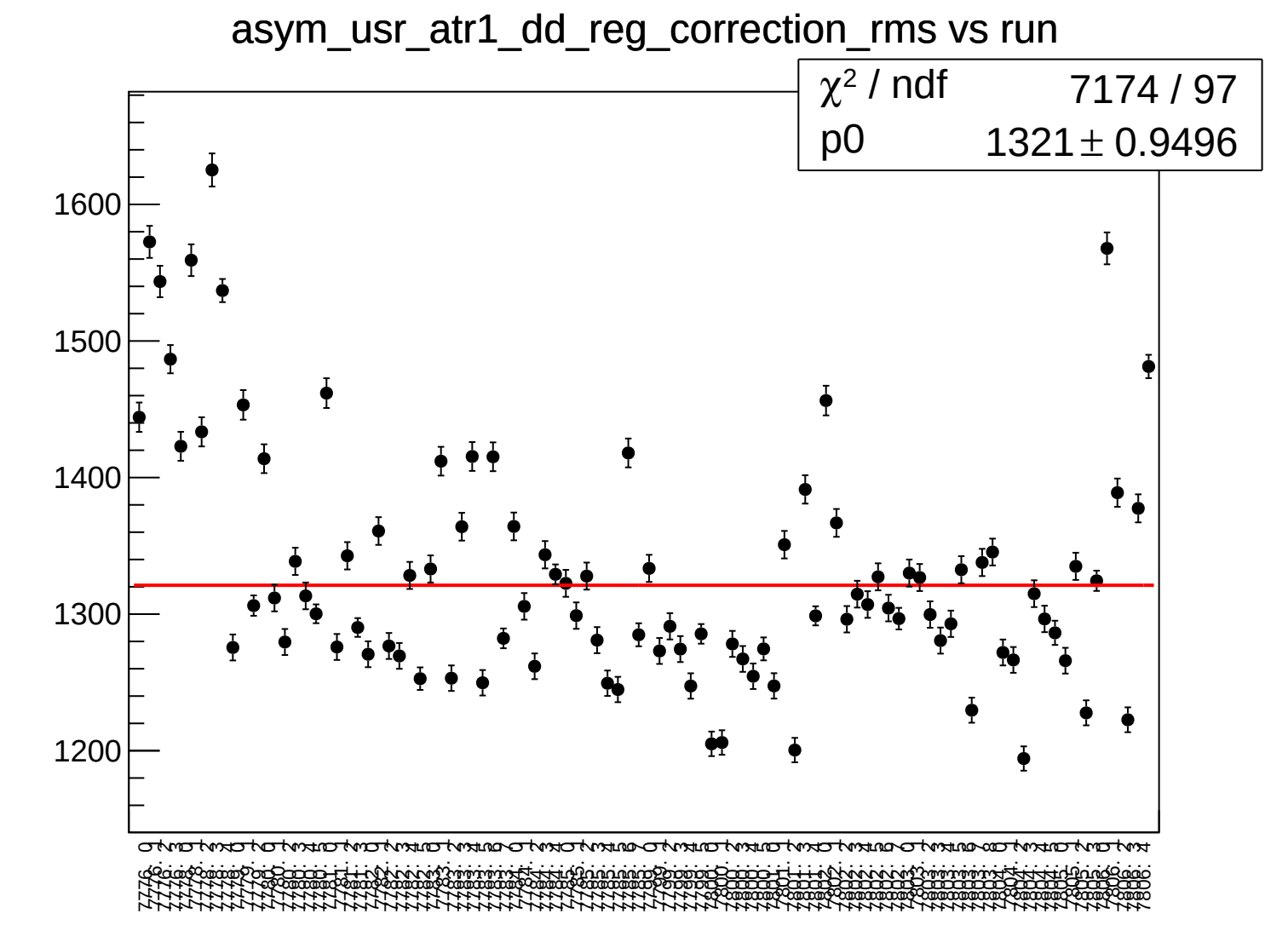

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.976e+05 / 97
p0 9.475e−11 ± 9.268e−14
1
0.8
0.6
0.4
0.2

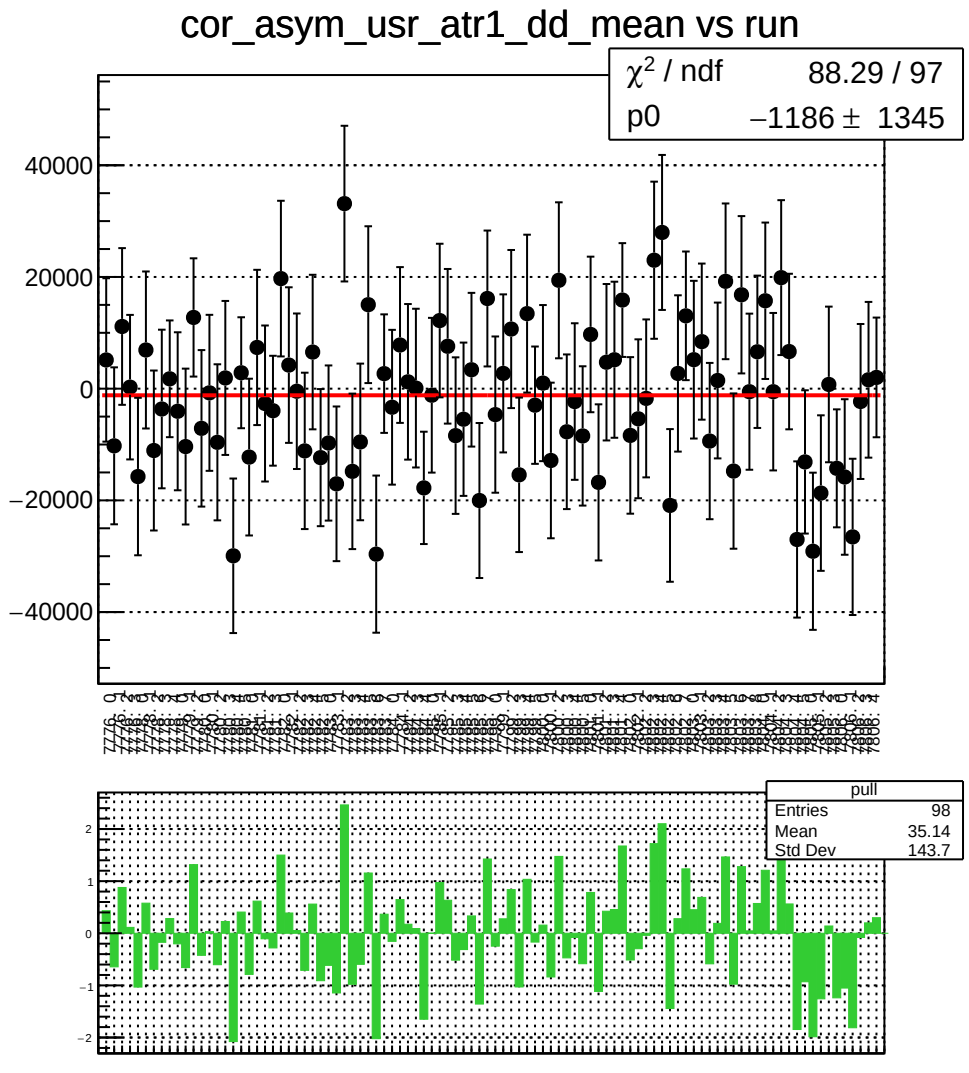

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 88.29 / 97
p0 −1186 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 35.14
Std Dev 143.6
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.004874
Std Dev 0.9492
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

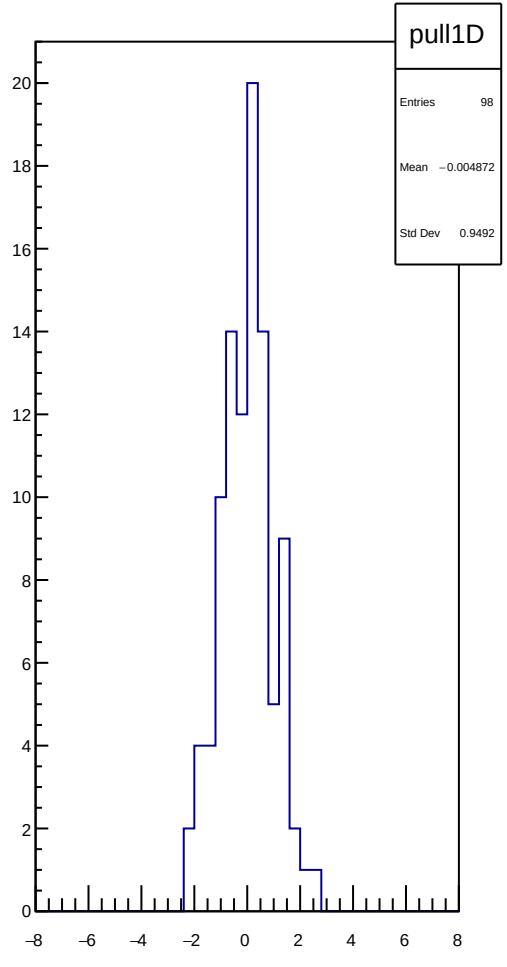

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 173.8 / 97
p0 1325 ± 0.9508
1400
1380
1360
1340
1320
1300
1280

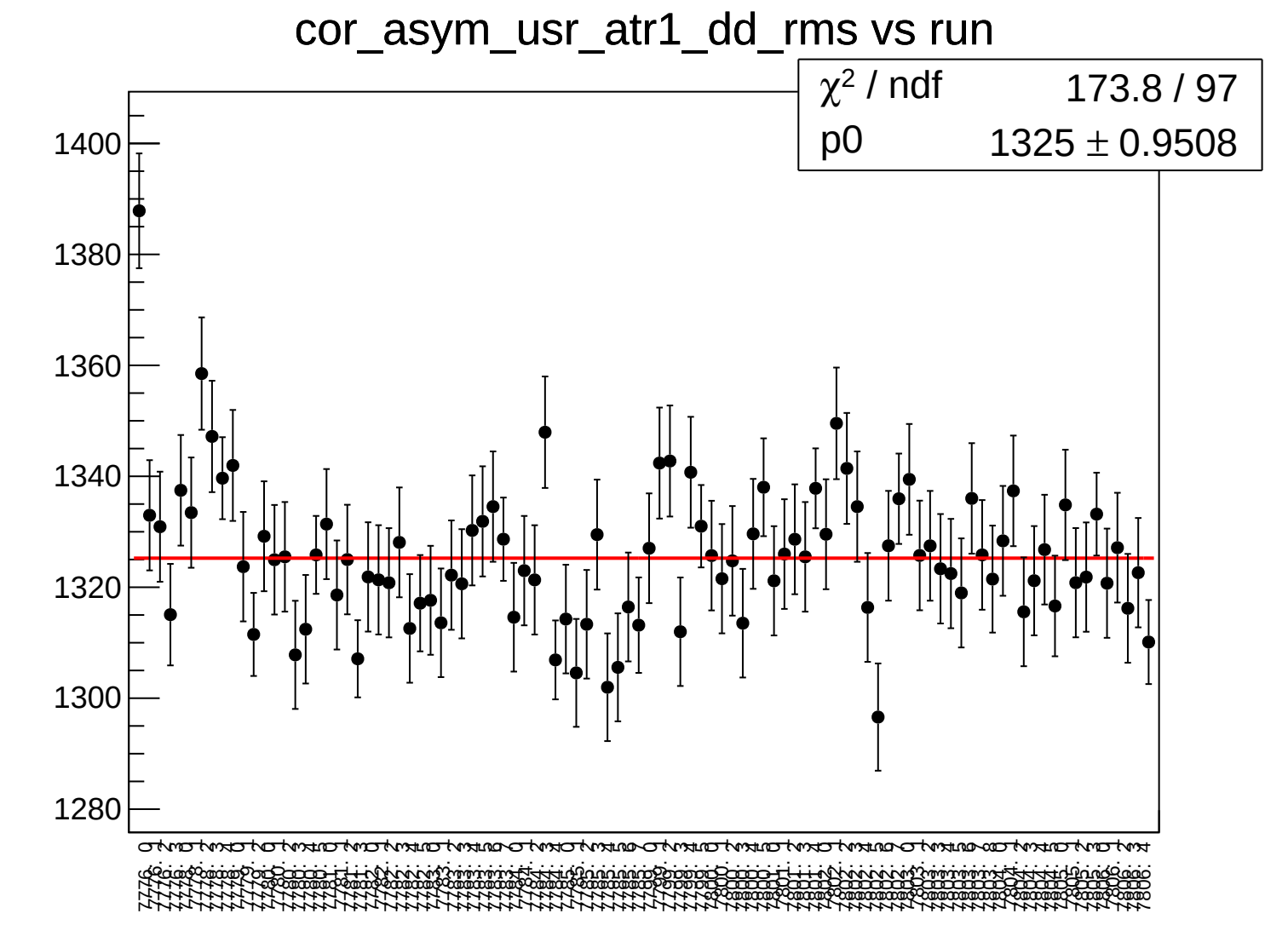

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 68.17 / 97
p0 293 ± 1343
pull
Entries 98
Mean −860.8
Std Dev 0

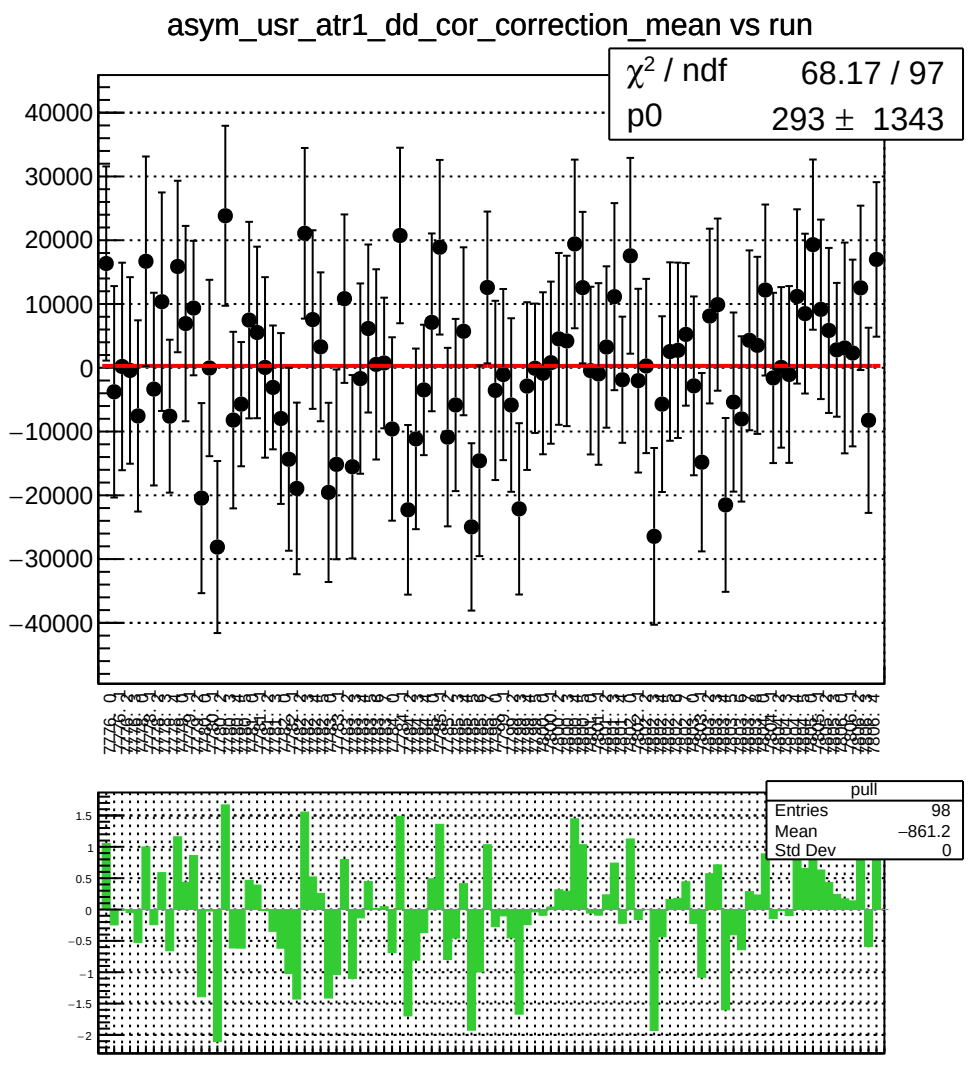

pull1D
Entries 98
Mean −0.003236
Std Dev 0.834

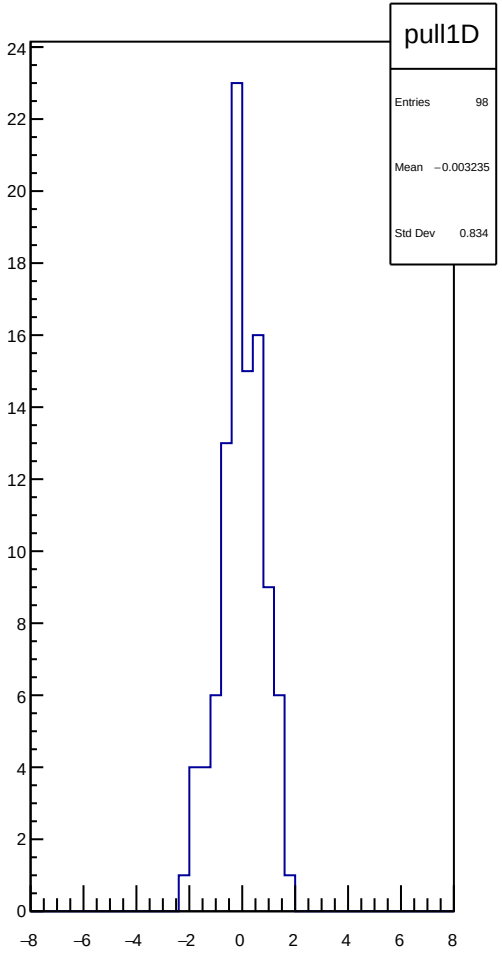

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 7174 / 97
p0 1321 ± 0.9496
1600
1500
1400
1300
1200

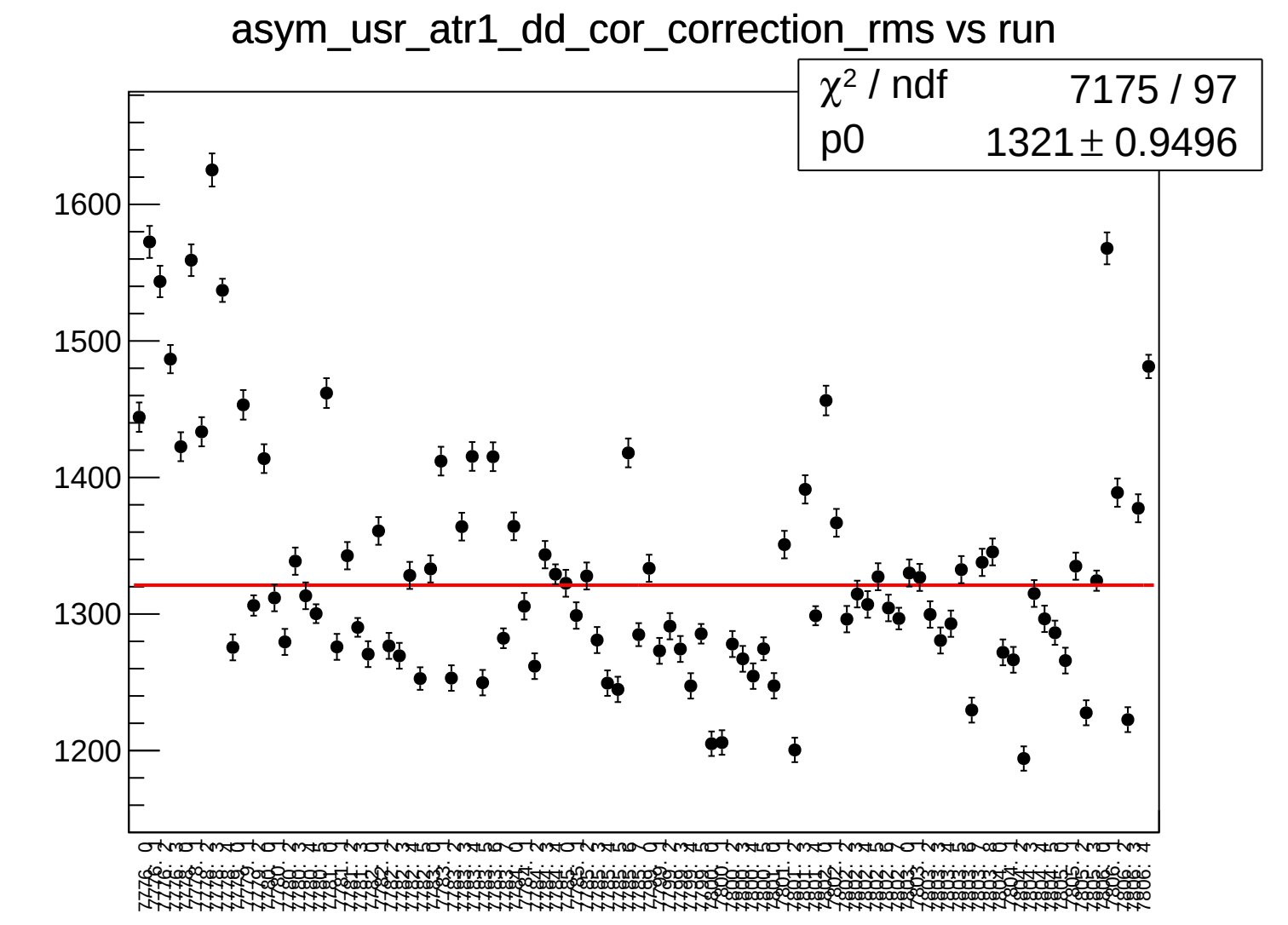

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 88.29 / 97
p0 −1186 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 35.14
Std Dev 143.7
2
1
0
−1
−2

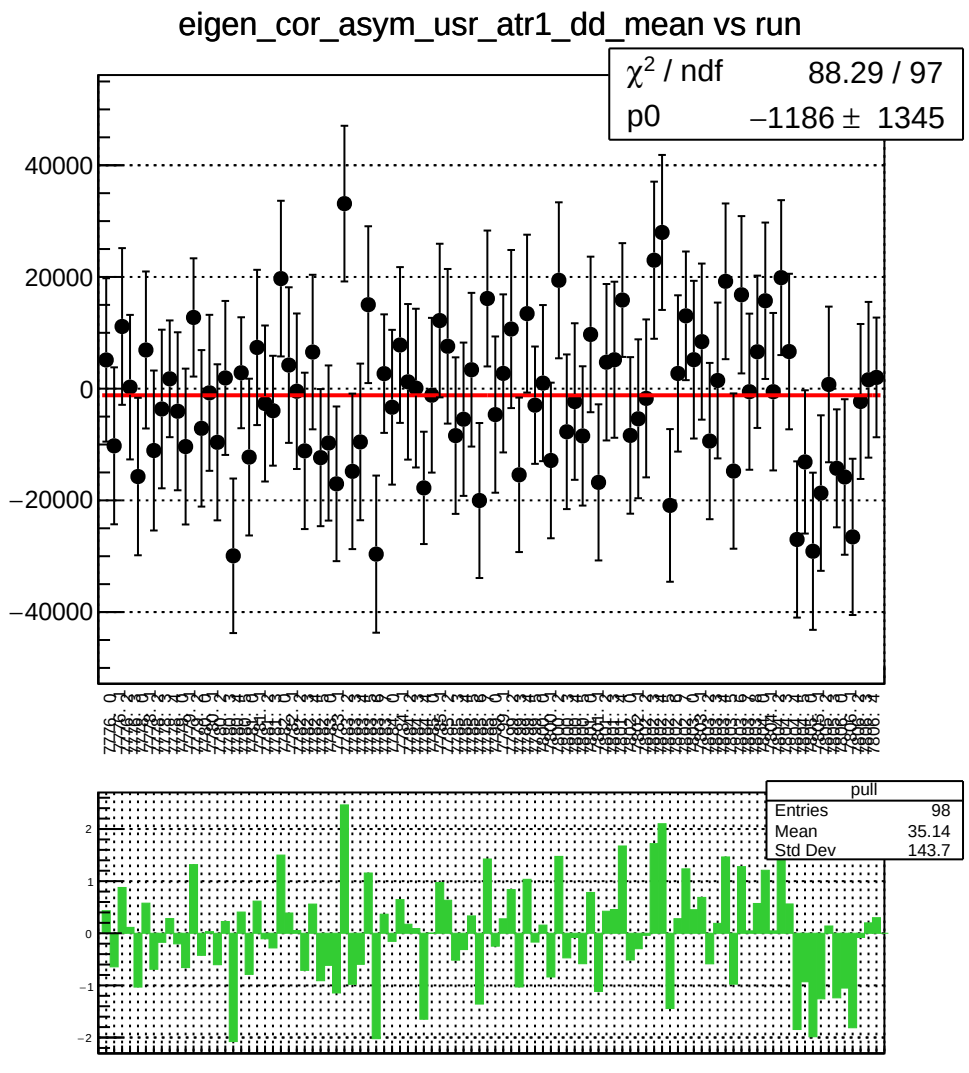

pull1D
Entries 98
Mean −0.004872
Std Dev 0.9492
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

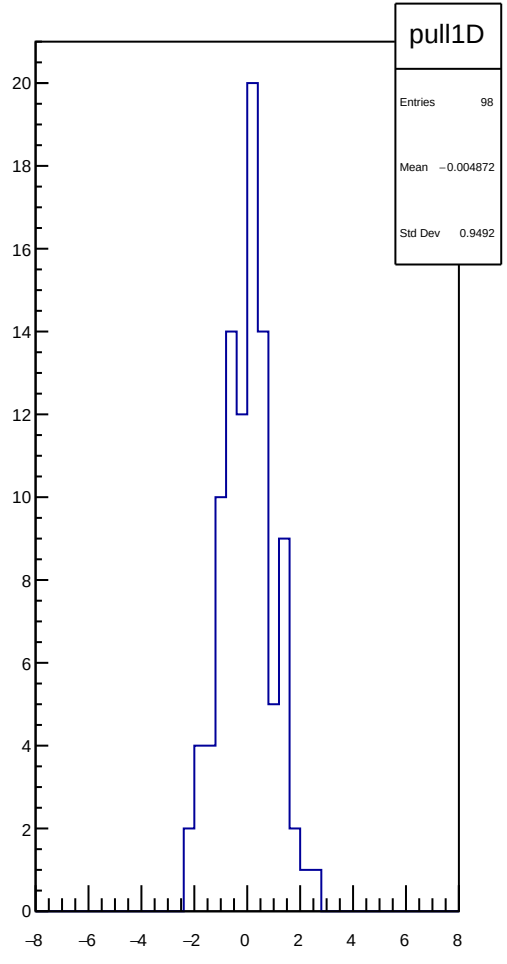

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 173.8 / 97
p0 1325 ± 0.9508
1400
1380
1360
1340
1320
1300
1280

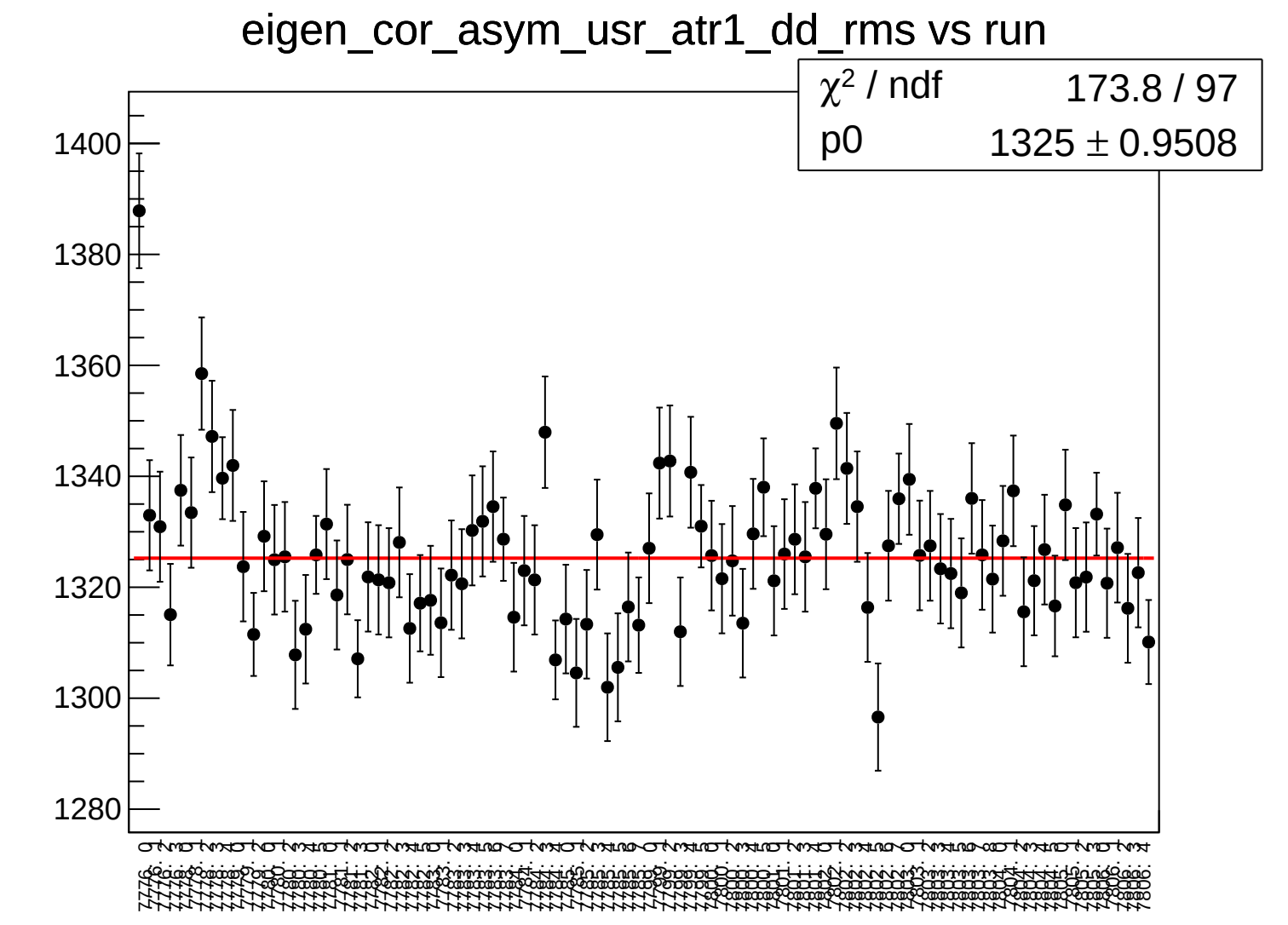

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 68.17 / 97
p0 293 ± 1343
pull
Entries 98
Mean −861.2
Std Dev 0

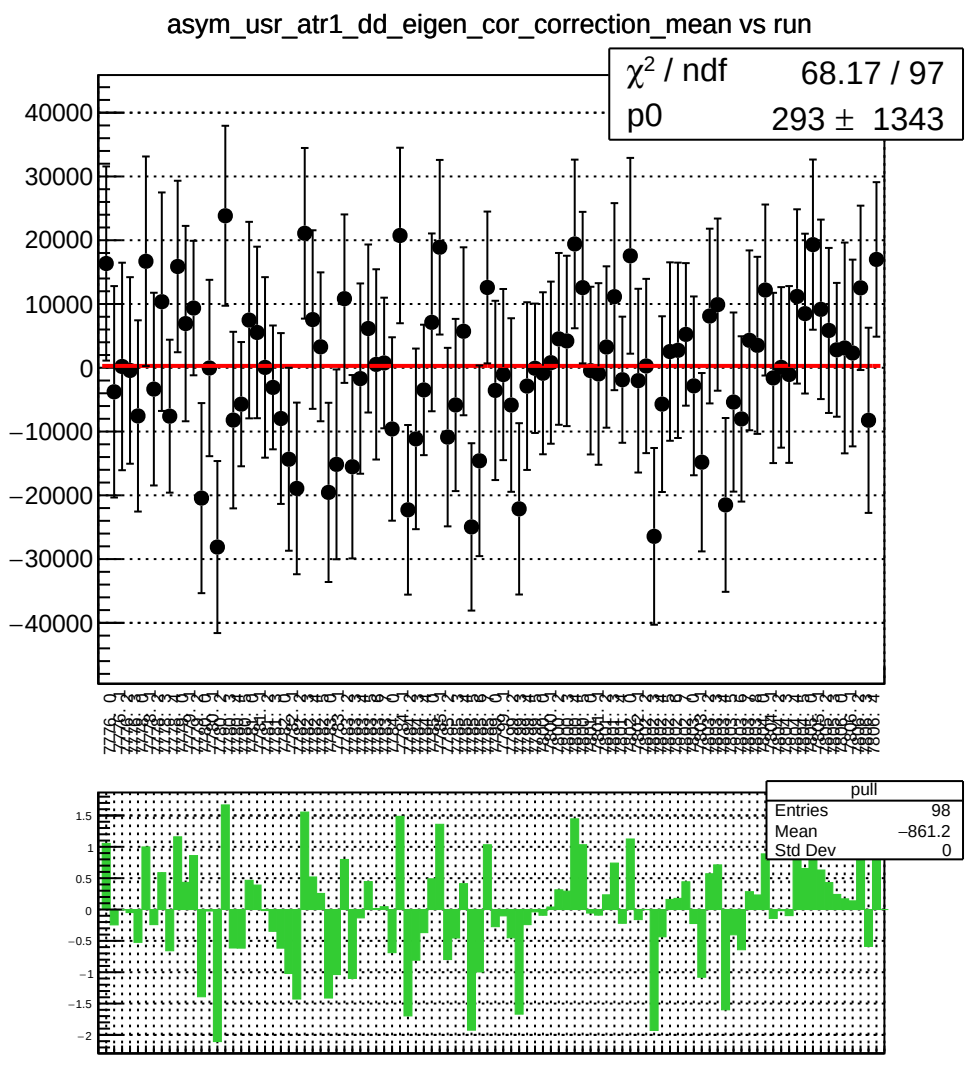

pull1D
Entries 98
Mean −0.003235
Std Dev 0.834

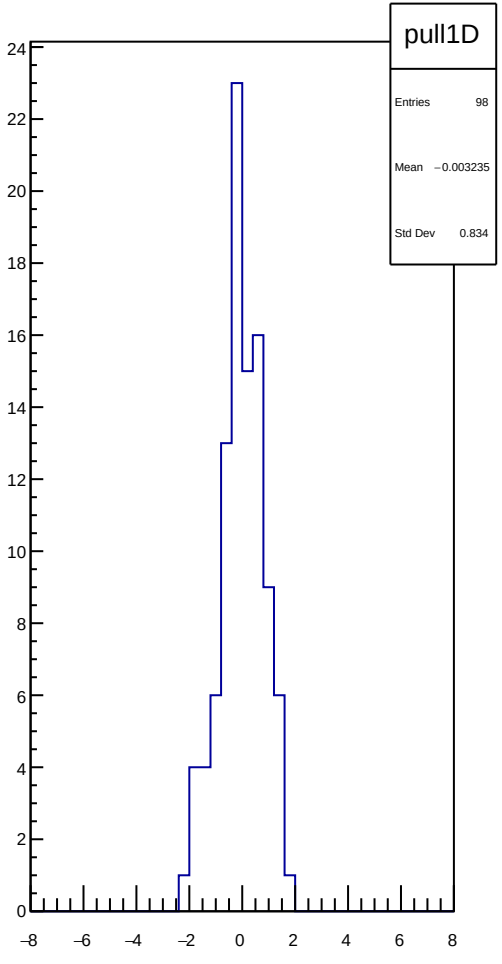

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 7175 / 97
p0 1321 ± 0.9496
1600
1500
1400
1300
1200

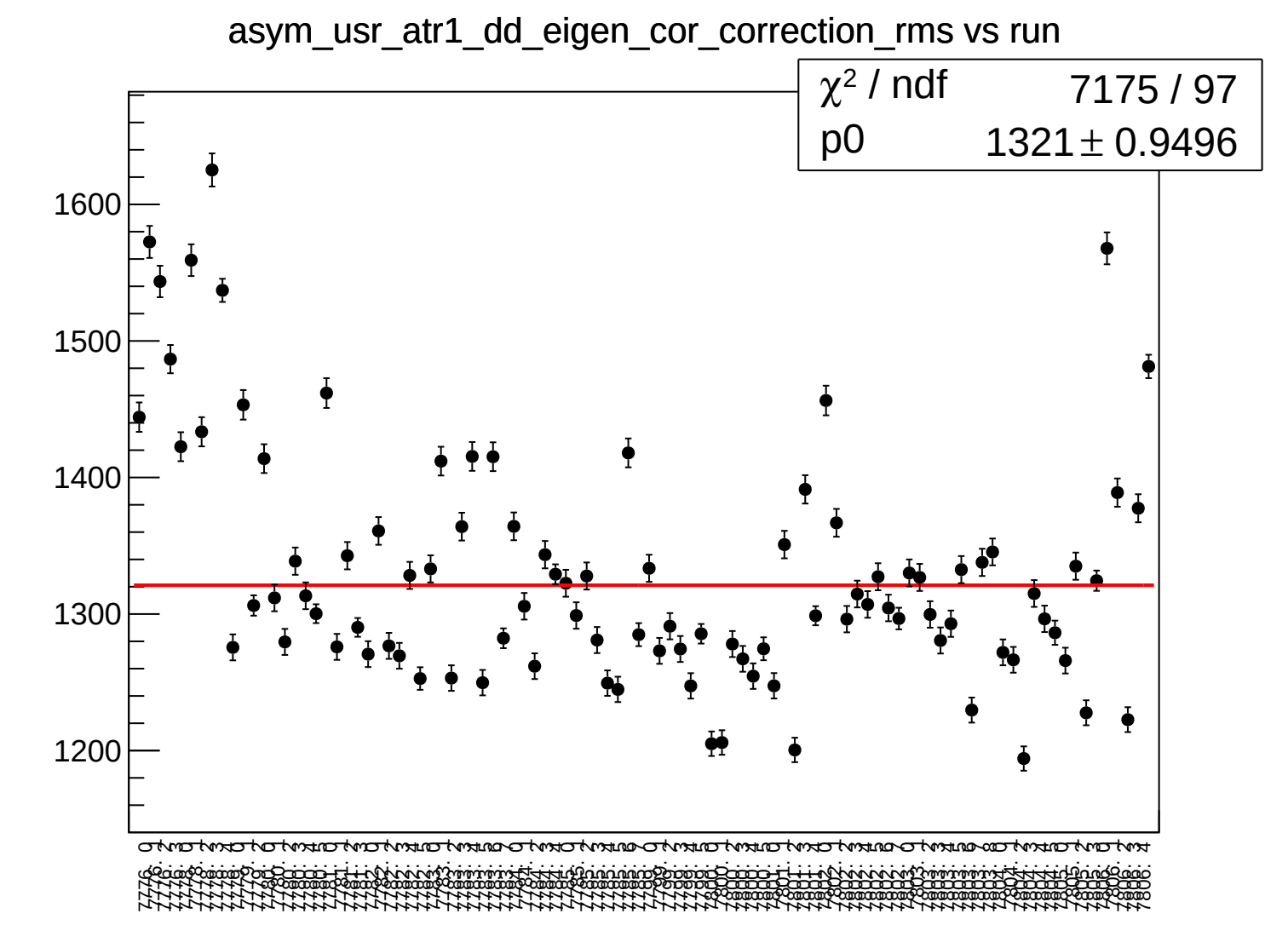

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 88.29 / 97
p0 −1186 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 35.14
Std Dev 143.7
2
1
0
−1
−2

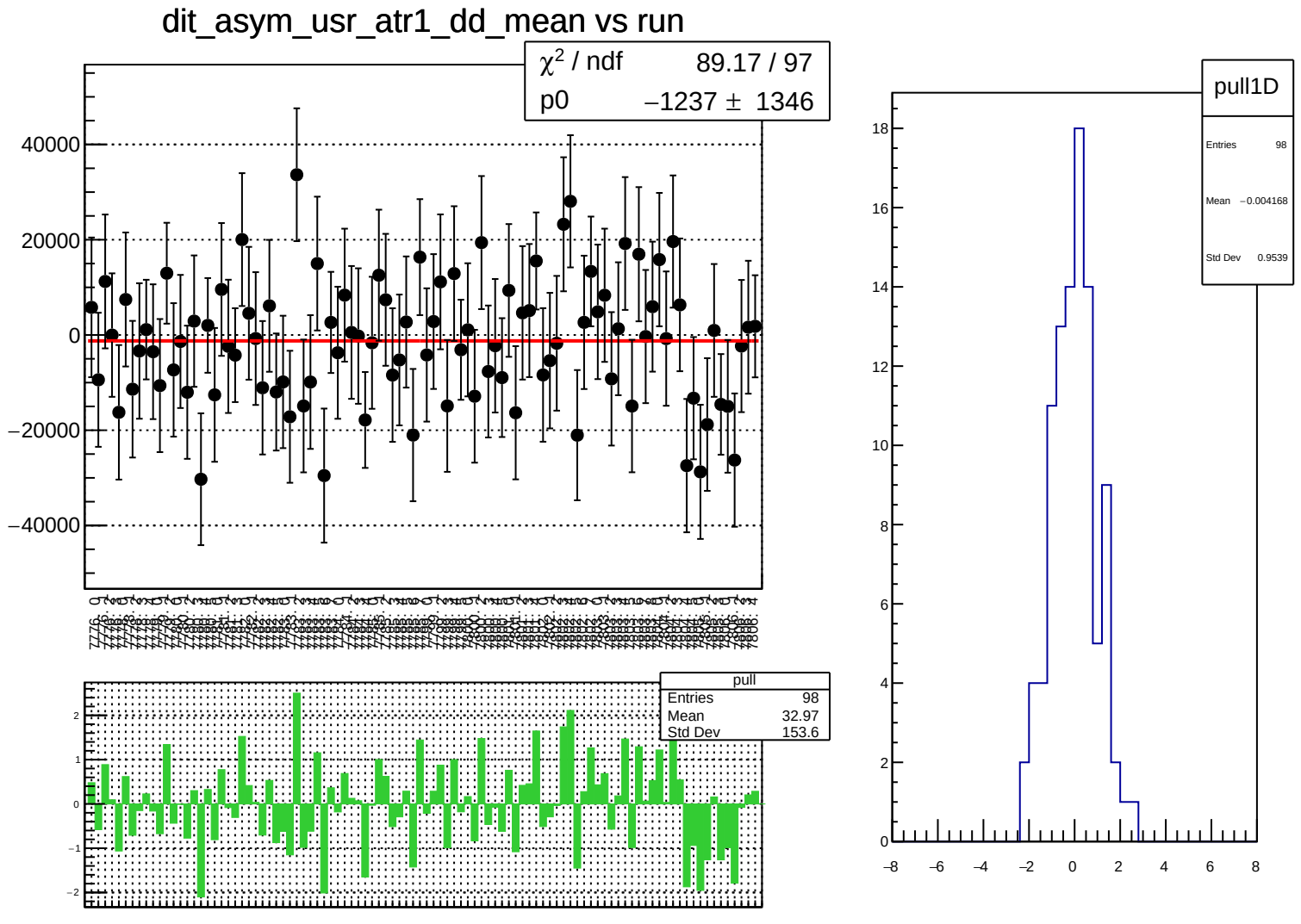

pull1D
Entries 98
Mean −0.004872
Std Dev 0.9492
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

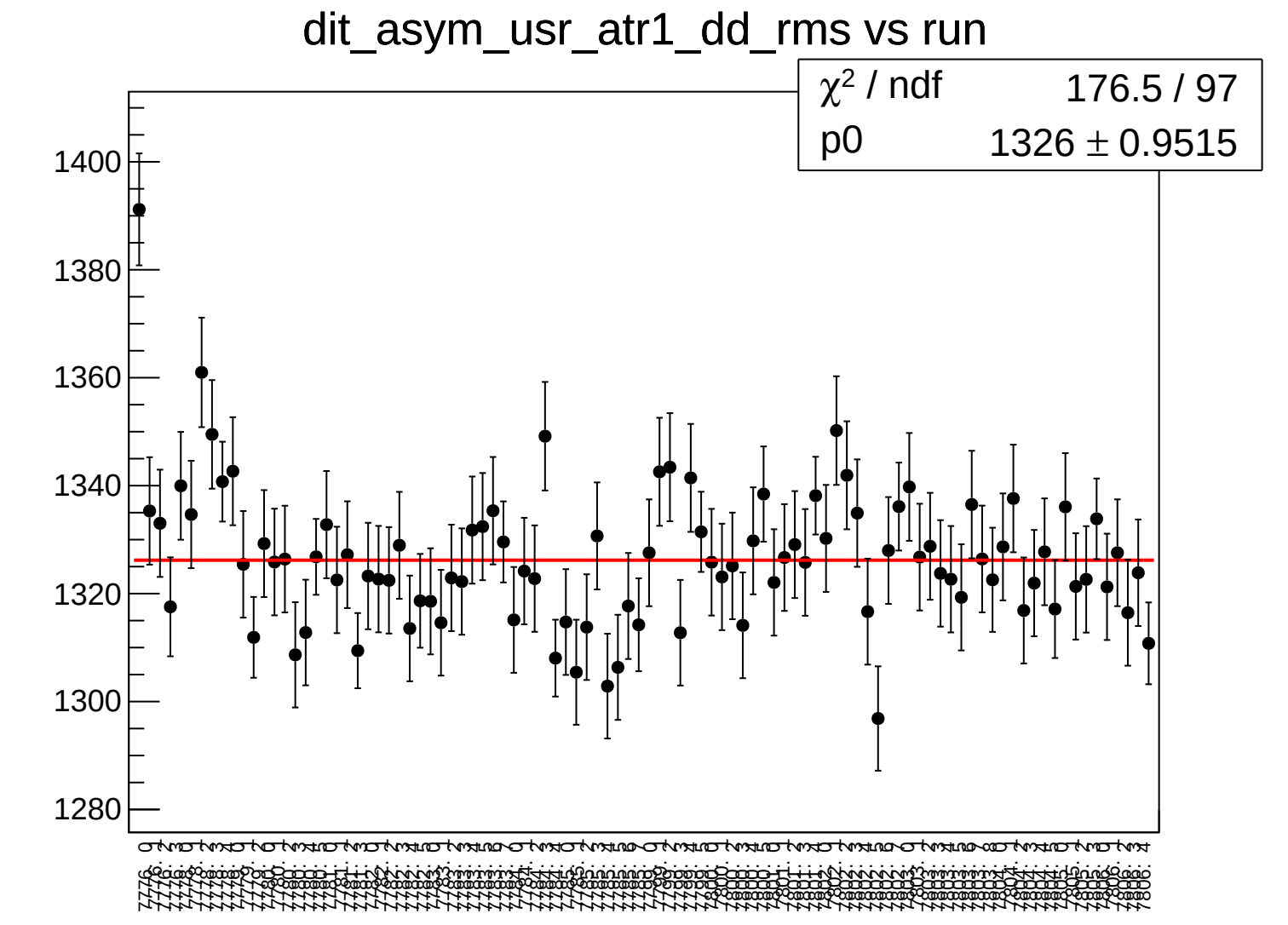

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 173.8 / 97
p0 1325 ± 0.9508
1400
1380
1360
1340
1320
1300
1280

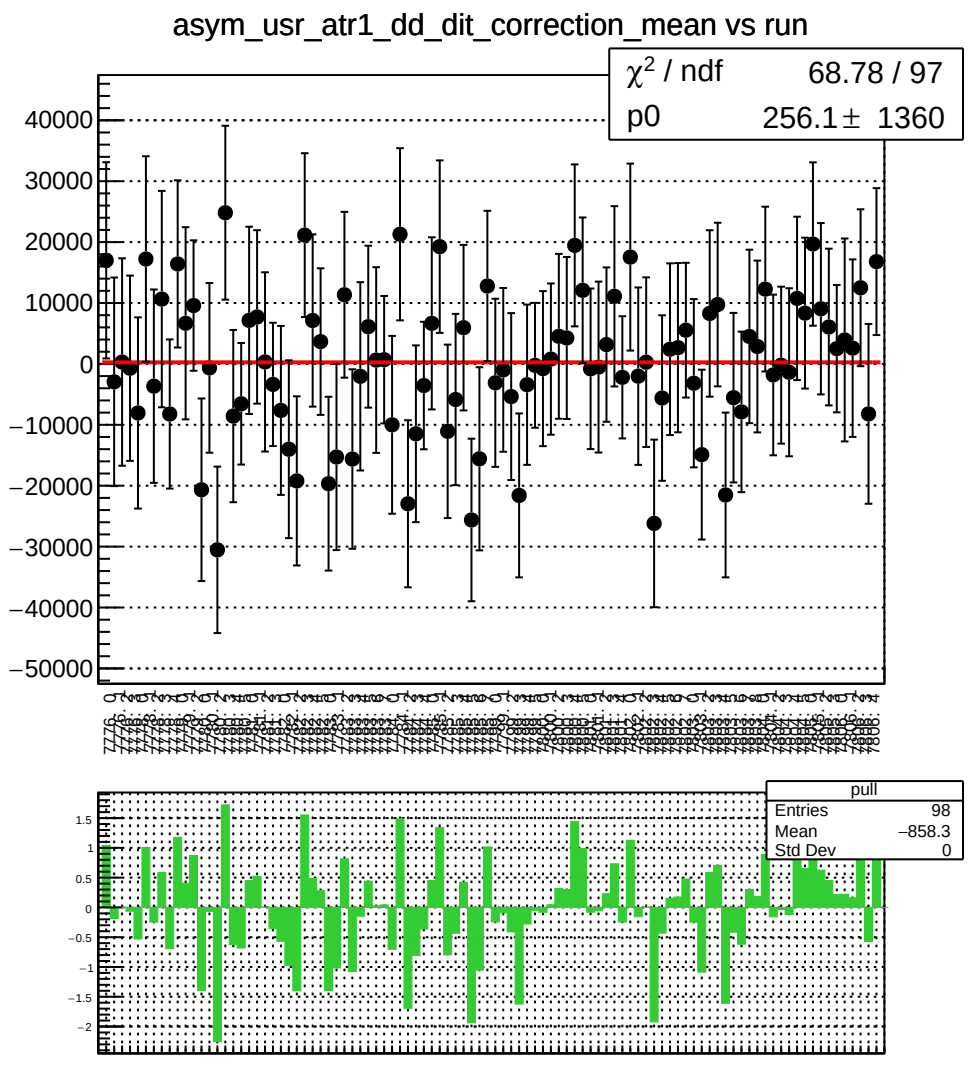

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.17 / 97
p0 293 ± 1343
pull
Entries 98
Mean −861.2
Std Dev 0

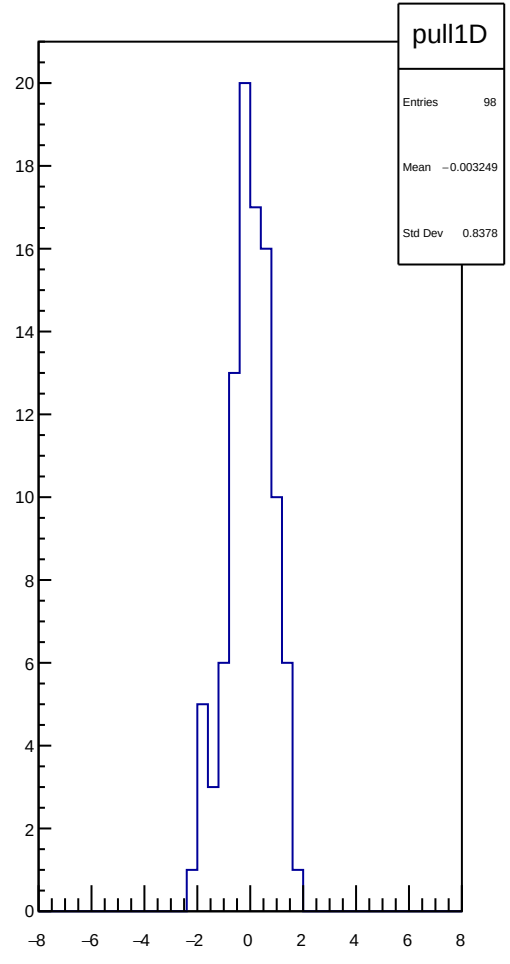

pull1D
Entries 98
Mean −0.003235
Std Dev 0.834

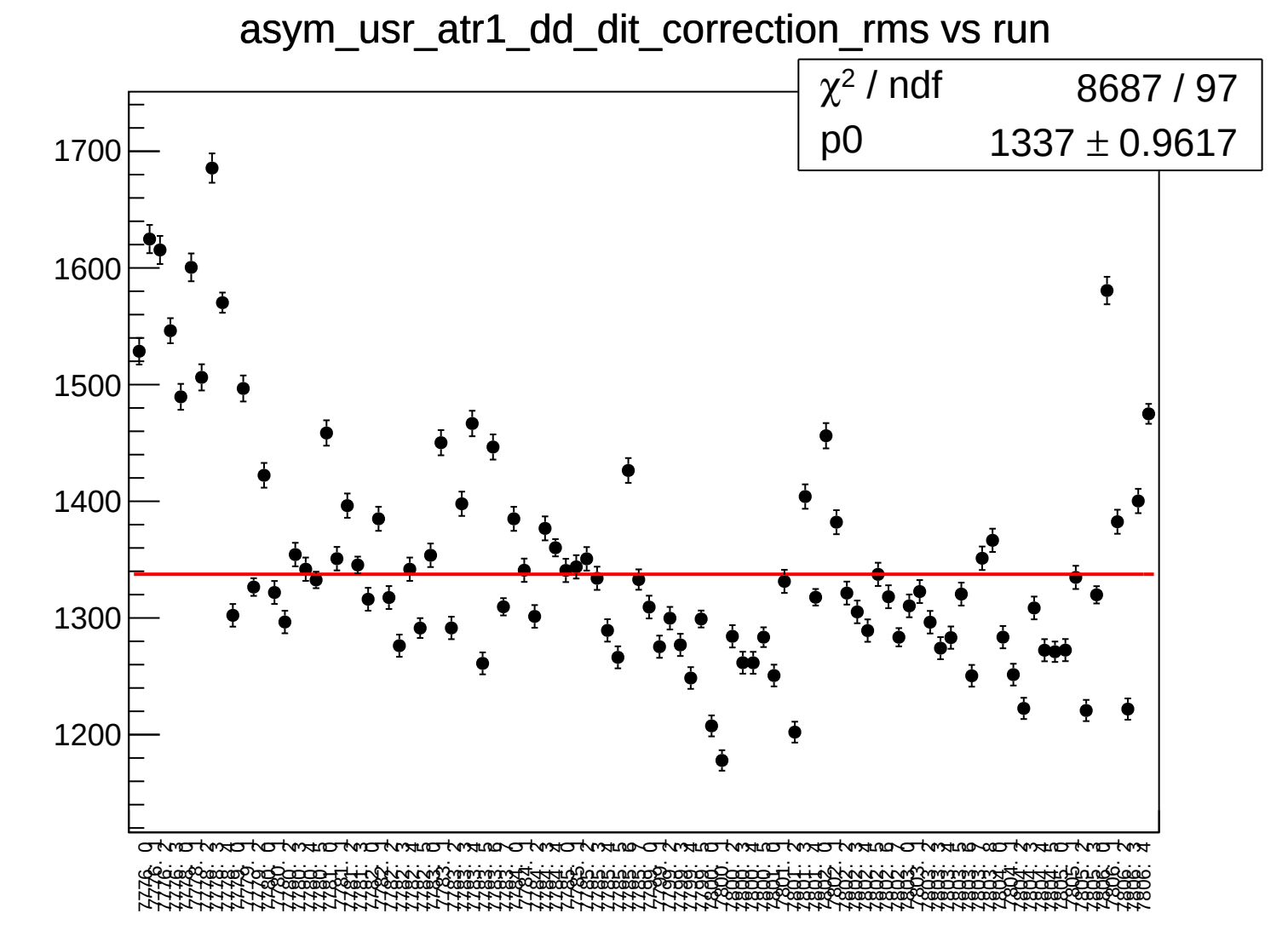

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 7175 / 97
p0 1321 ± 0.9496
1600
1500
1400
1300
1200

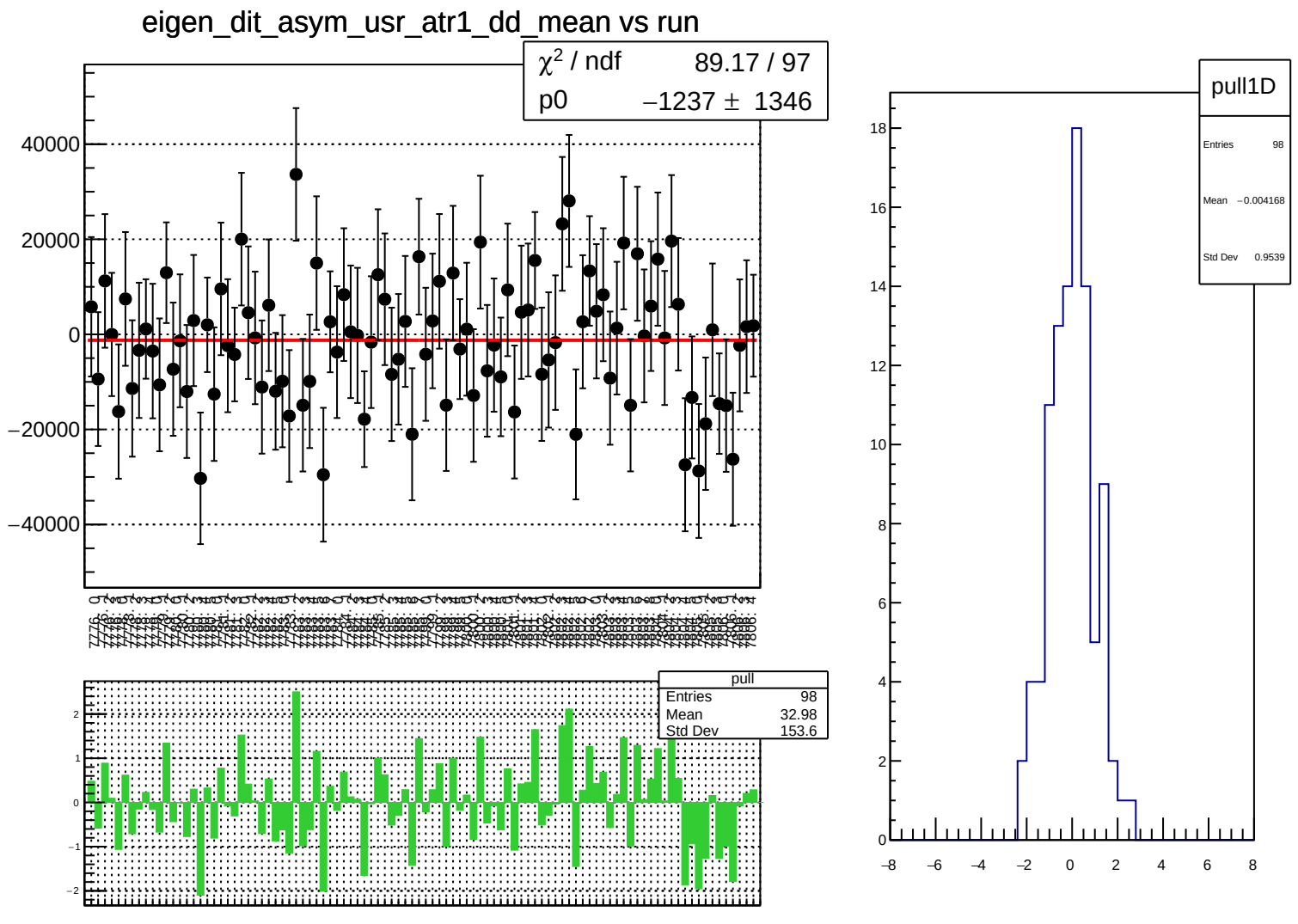

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 89.17 / 97
p0 −1237 ± 1346
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 32.97
Std Dev 153.6
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.004168
Std Dev 0.9539
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

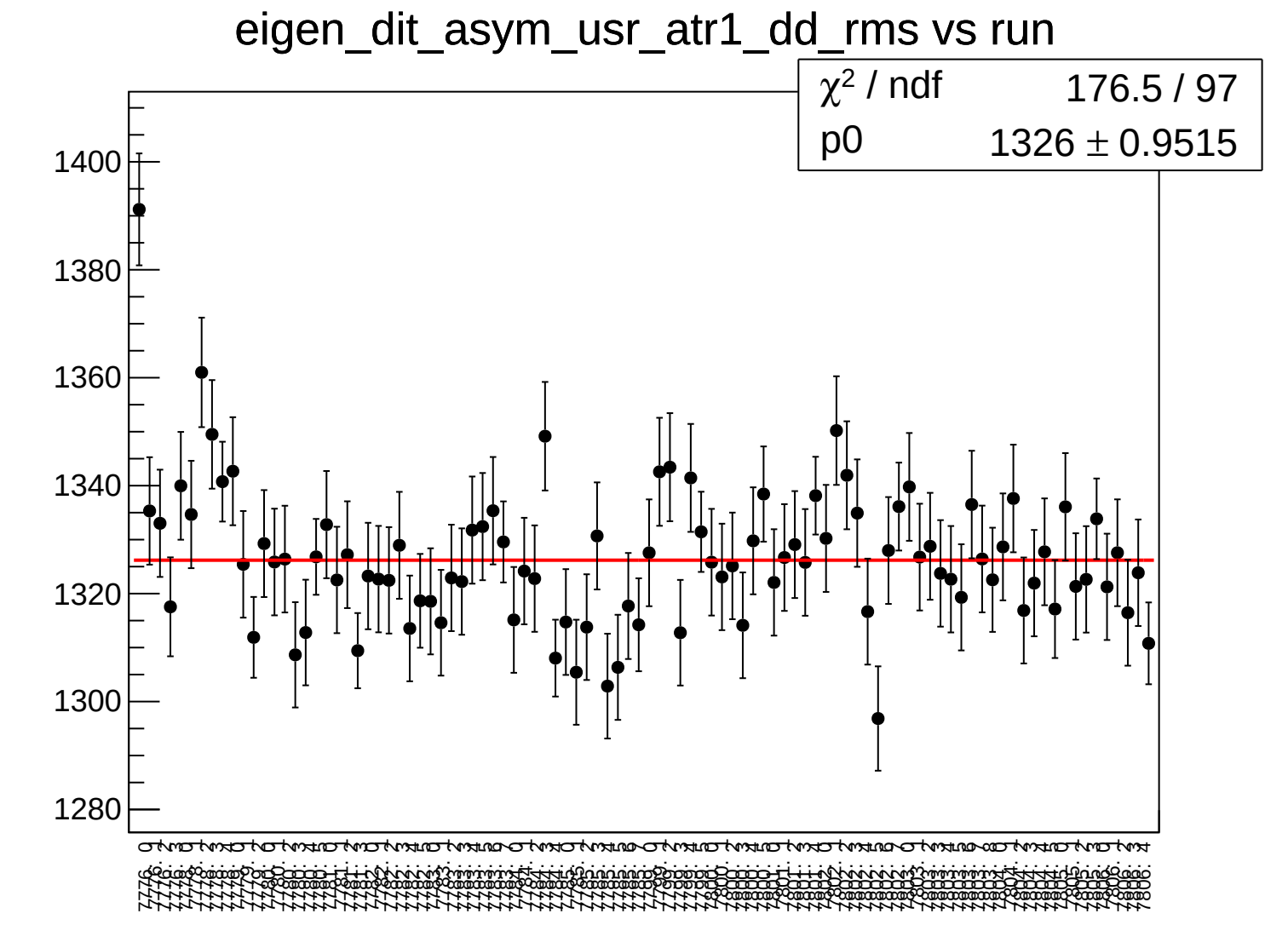

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 176.5 / 97
p0 1326 ± 0.9515
1400
1380
1360
1340
1320
1300
1280

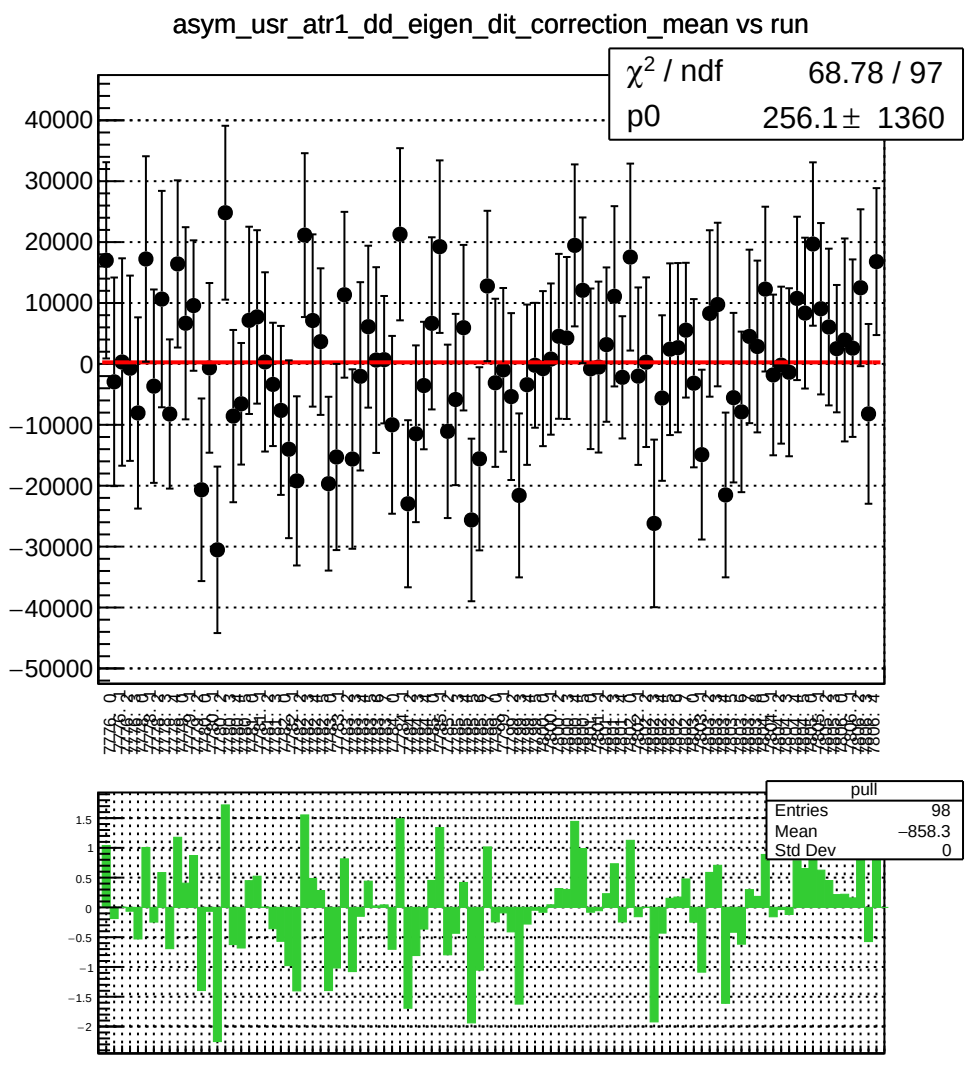

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 68.78 / 97
p0 256.1 ± 1360
pull
Entries 98
Mean −858.3
Std Dev 0

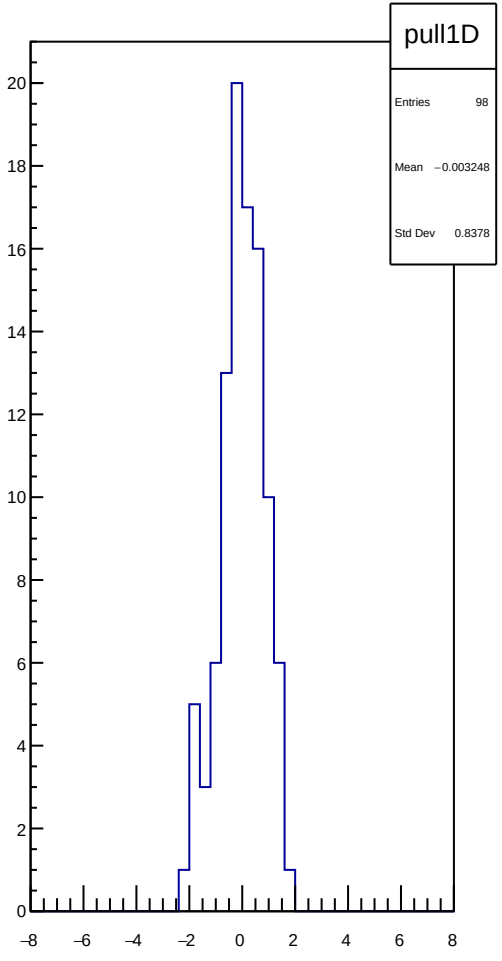

pull1D
Entries 98
Mean −0.003249
Std Dev 0.8378

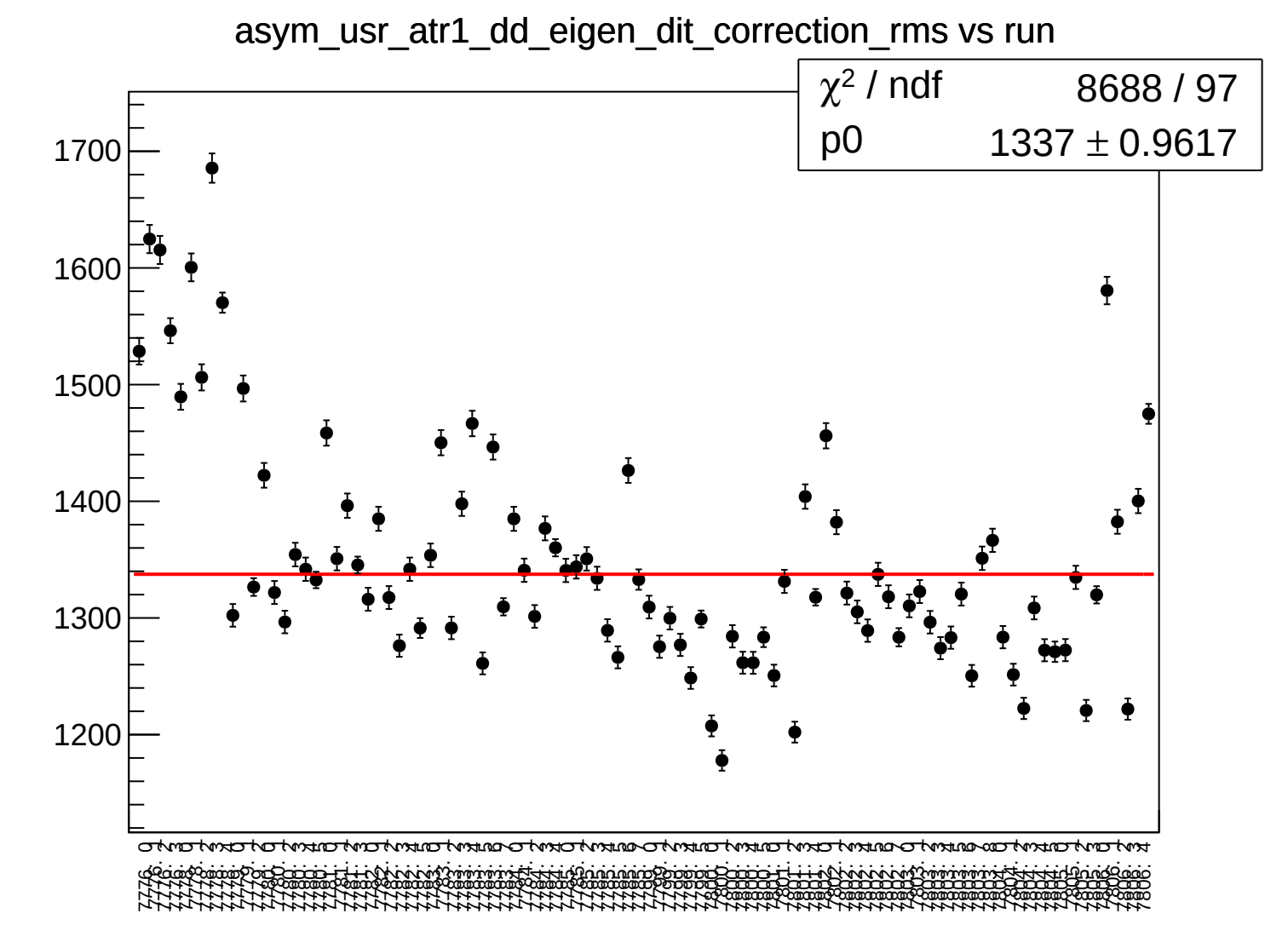

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 8687 / 97
p0 1337 ± 0.9617
1700
1600
1500
1400
1300
1200

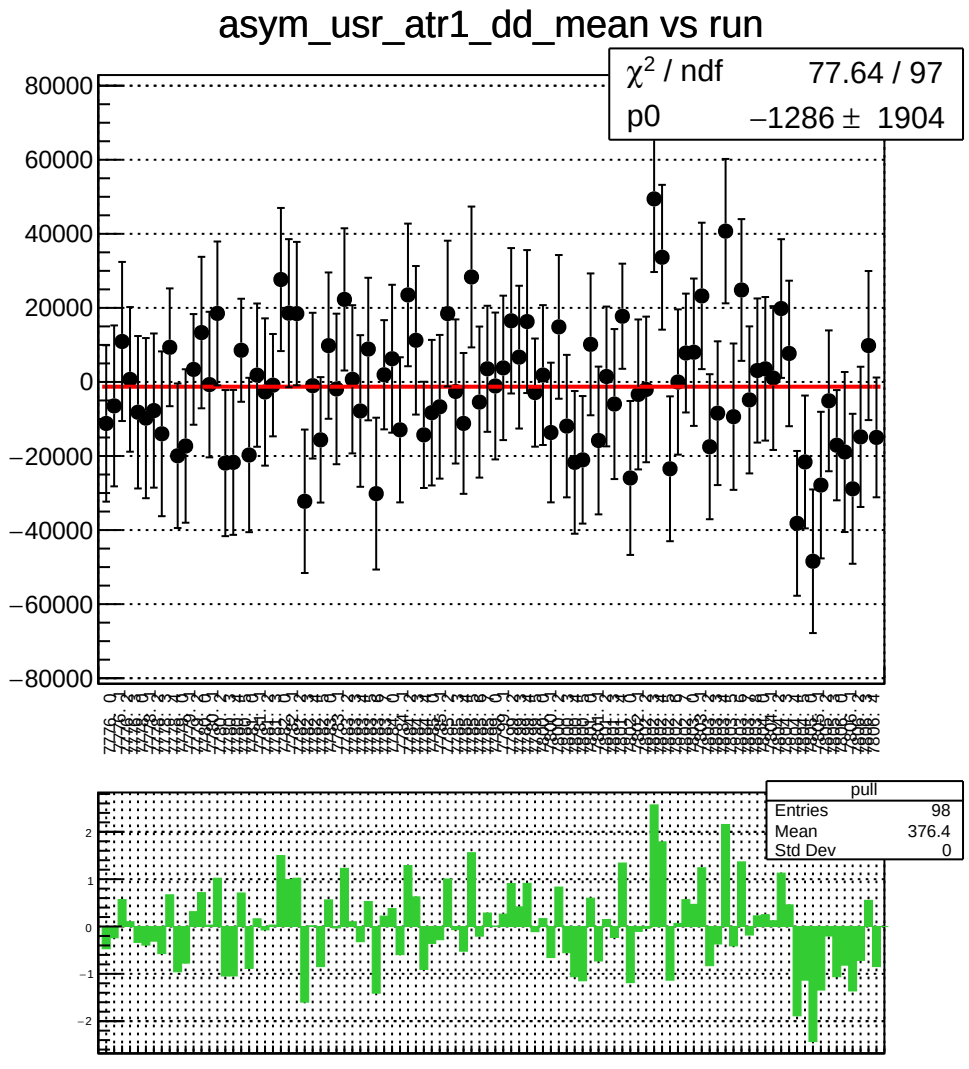

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 89.17 / 97
p0 −1237 ± 1346
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 32.98
Std Dev 153.6
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.004168
Std Dev 0.9539
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

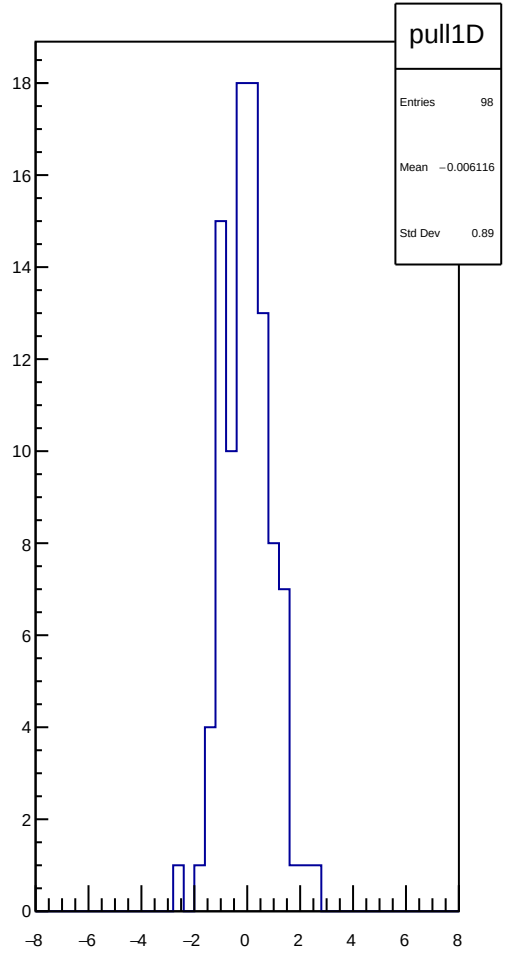

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 176.5 / 97
p0 1326 ± 0.9515
1400
1380
1360
1340
1320
1300
1280

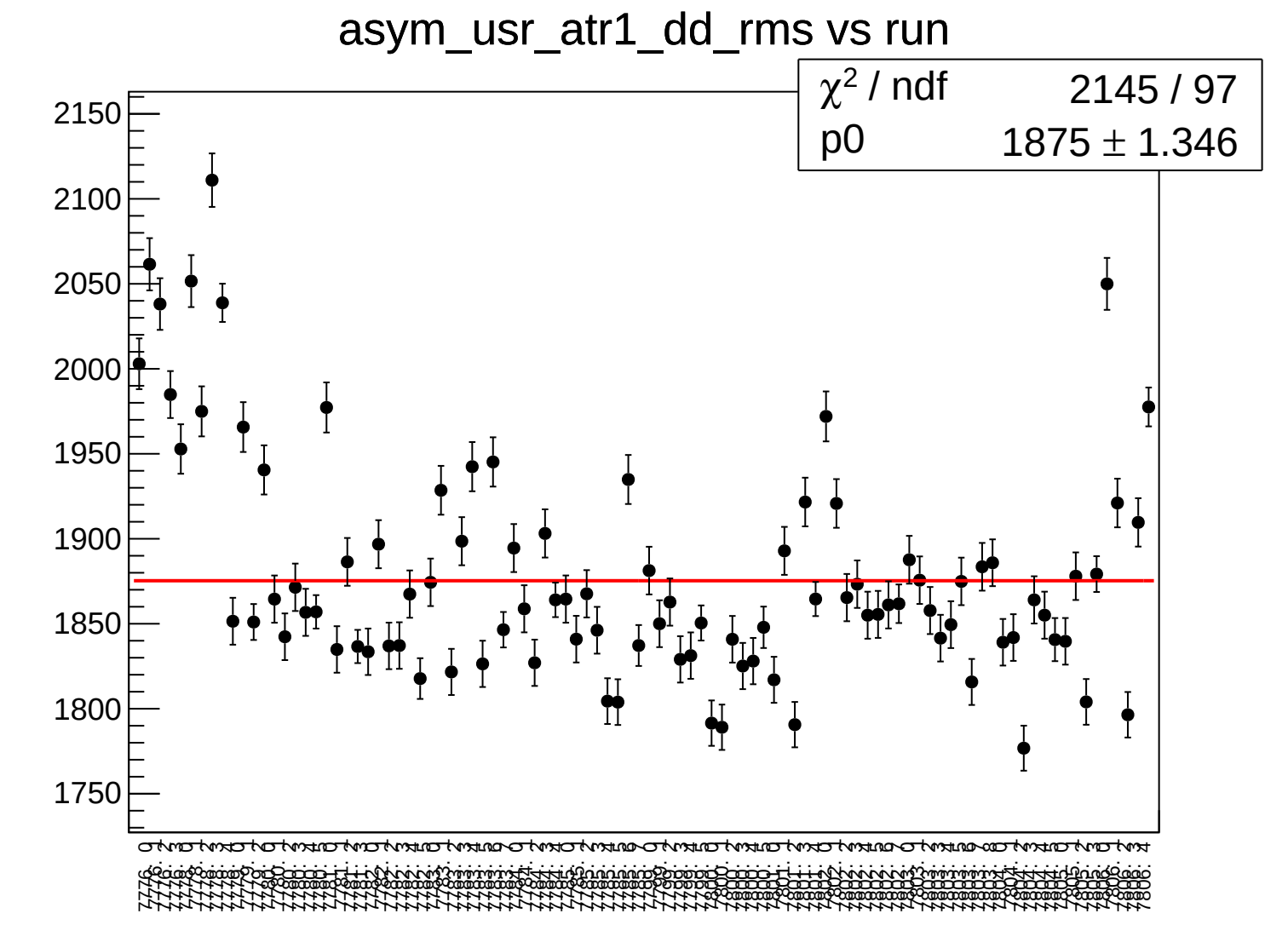

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.78 / 97
p0 256.1 ± 1360
pull
Entries 98
Mean −858.3
Std Dev 0

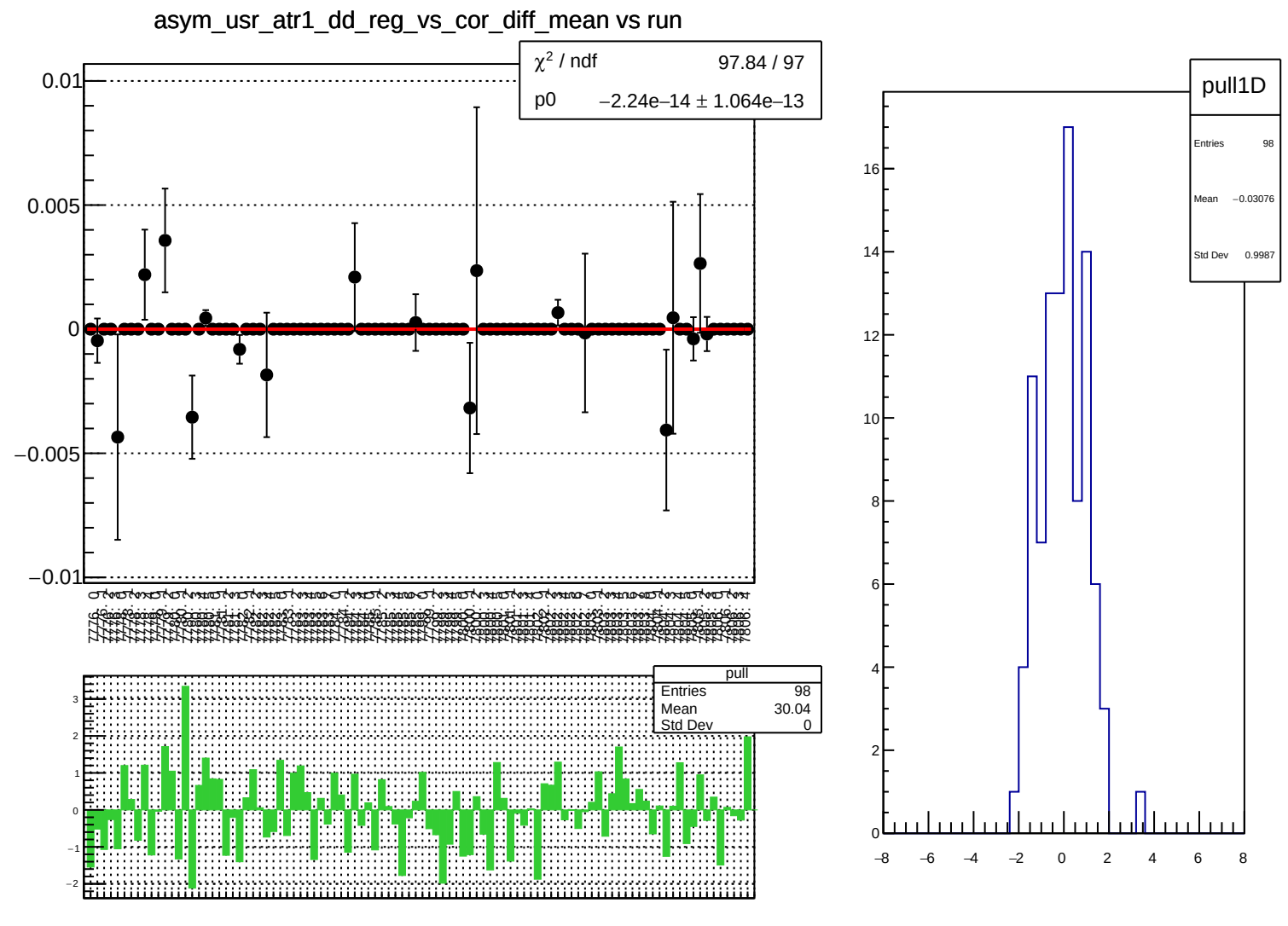

pull1D
Entries 98
Mean −0.003248
Std Dev 0.8378

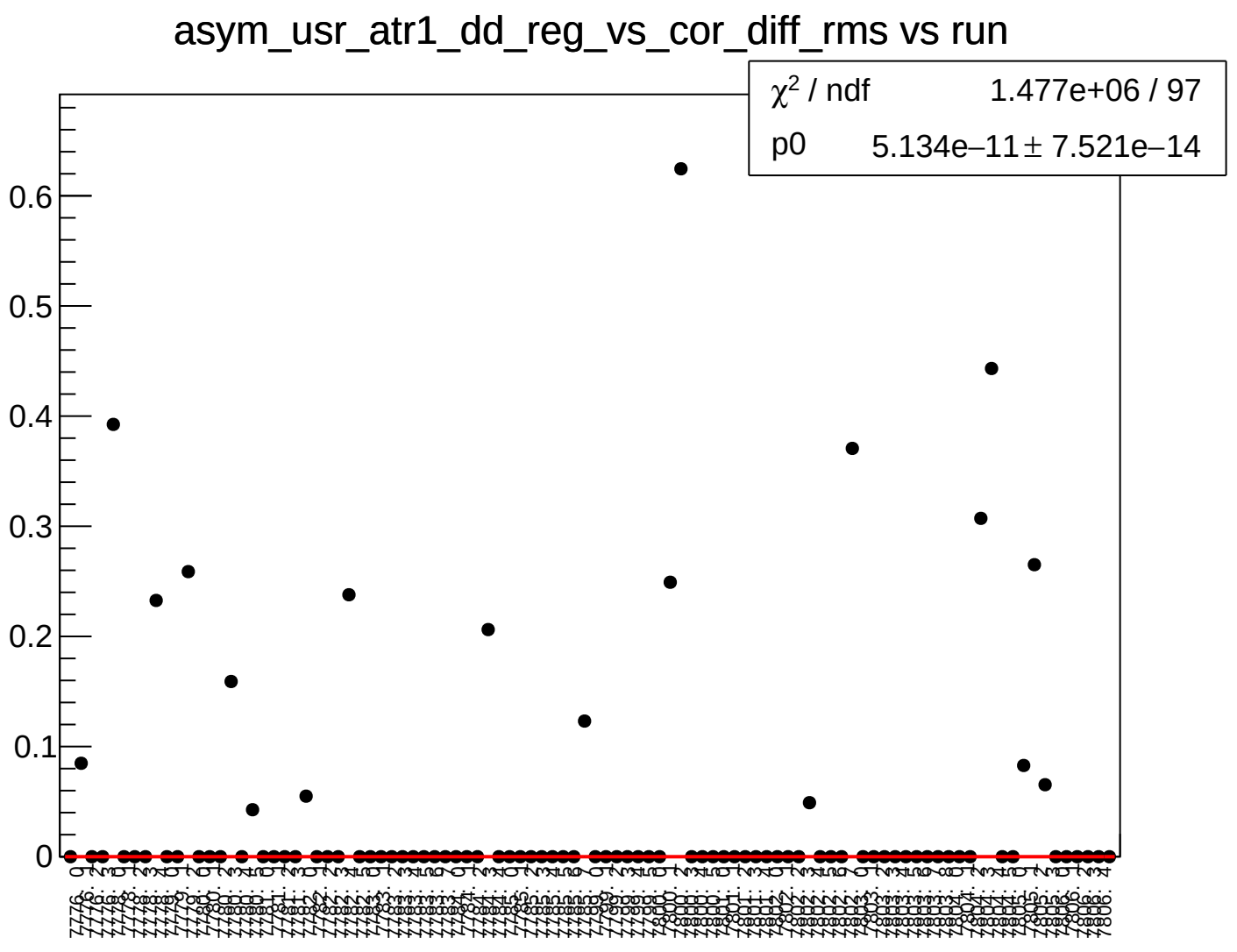

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 8688 / 97
p0 1337 ± 0.9617
1700
1600
1500
1400
1300
1200

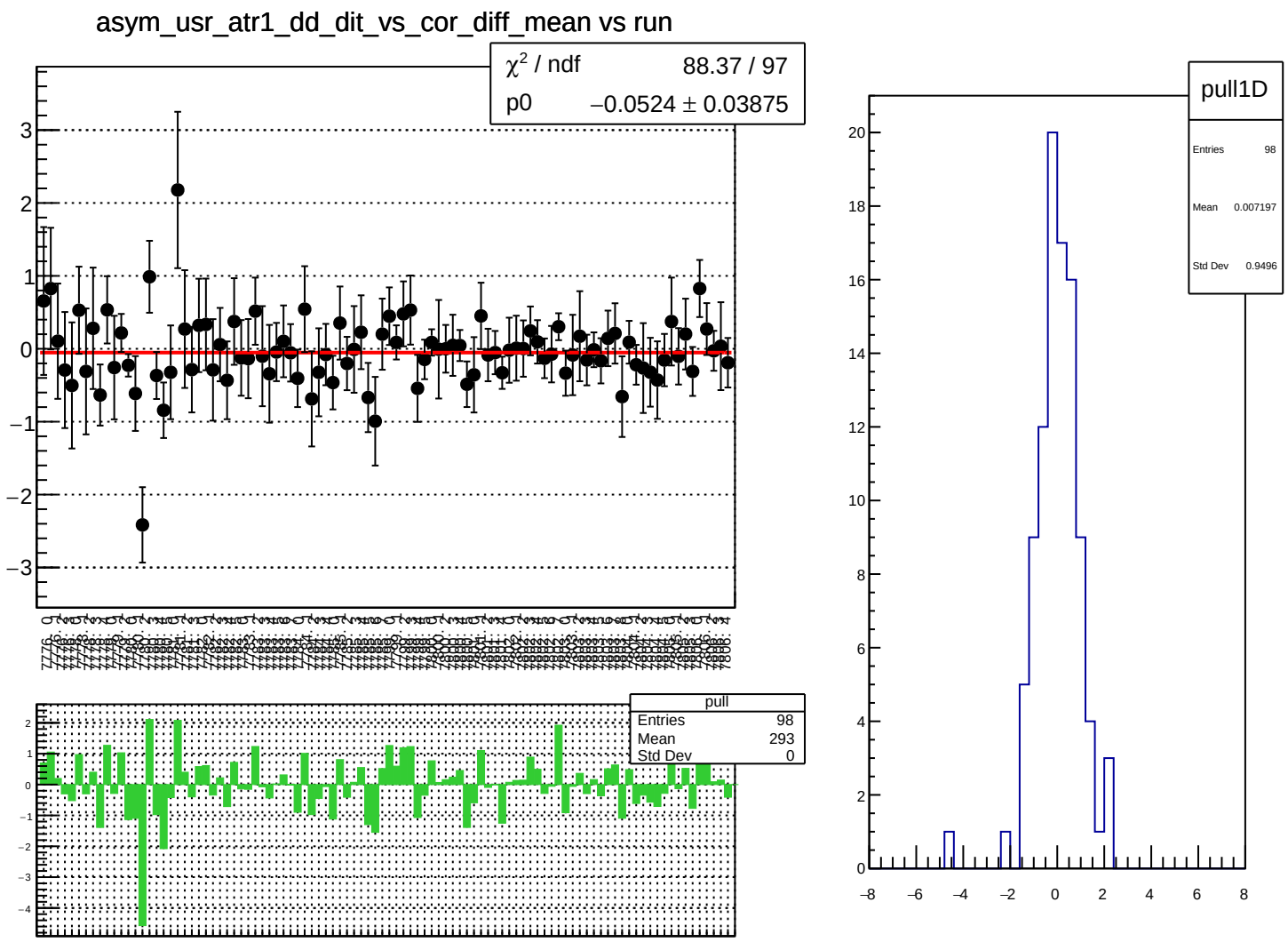

asym_usr_atr1_dd_mean vs run
χ² / ndf 77.64 / 97
p0 −1286 ± 1904
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 376.4
Std Dev 0
2
1
0
−1
−2

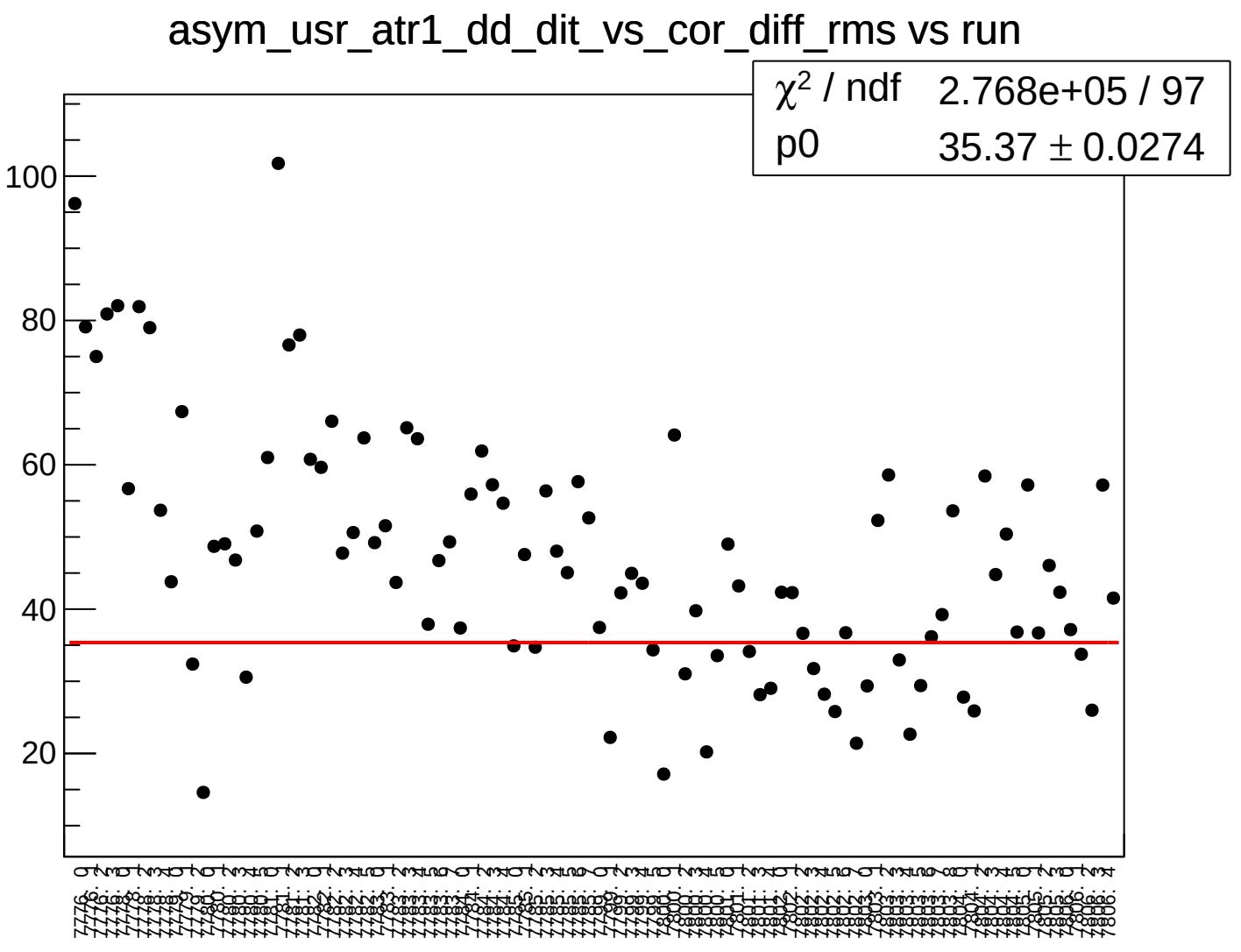

pull1D
Entries 98
Mean −0.006116
Std Dev 0.89
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

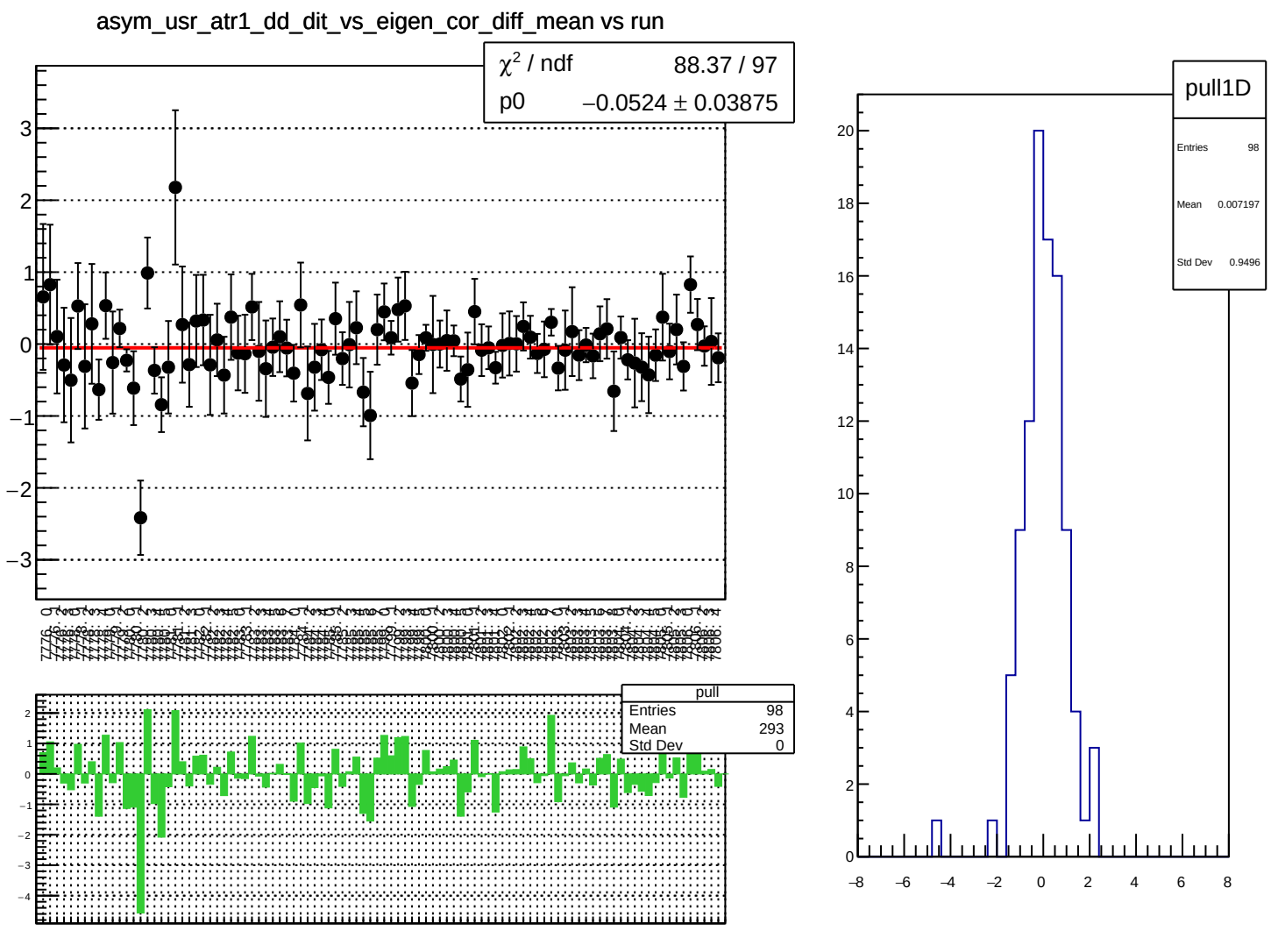

asym_usr_atr1_dd_rms vs run
χ² / ndf 2145 / 97
p0 1875 ± 1.346
2150
2100
2050
2000
1950
1900
1850
1800
1750

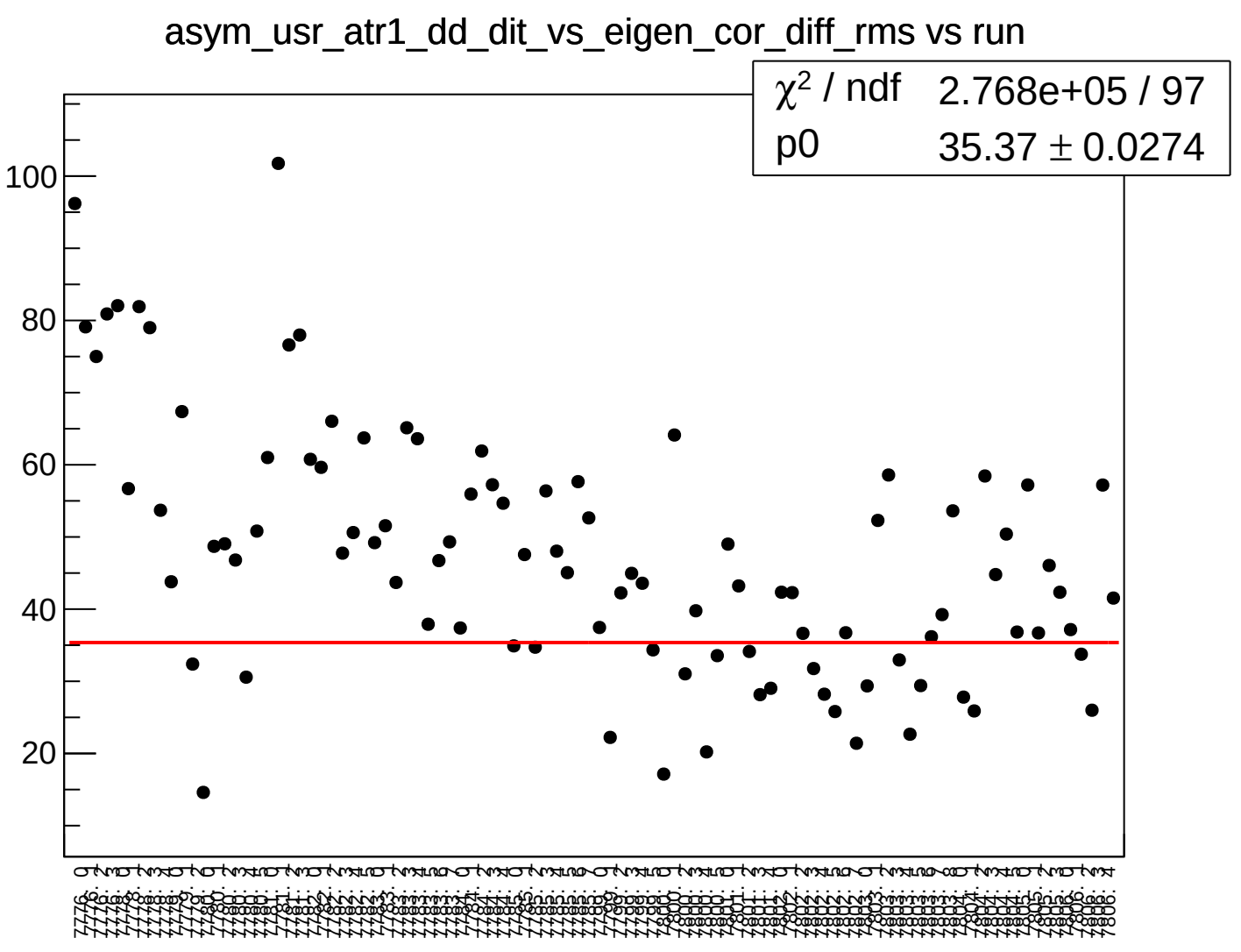

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.84 / 97
p0 −2.24e−14 ± 1.064e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 98
Mean 30.04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.03076
Std Dev 0.9987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

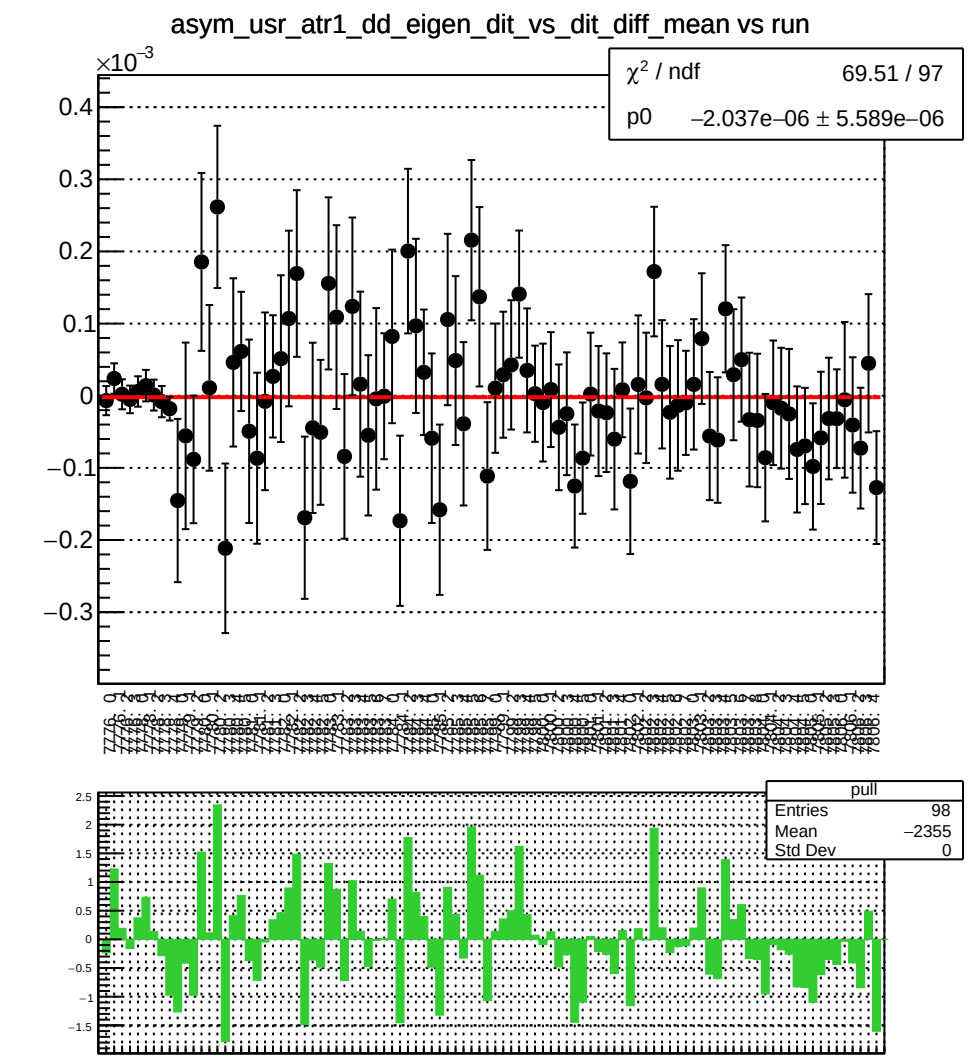

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.477e+06 / 97
p0 5.134e−11 ± 7.521e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

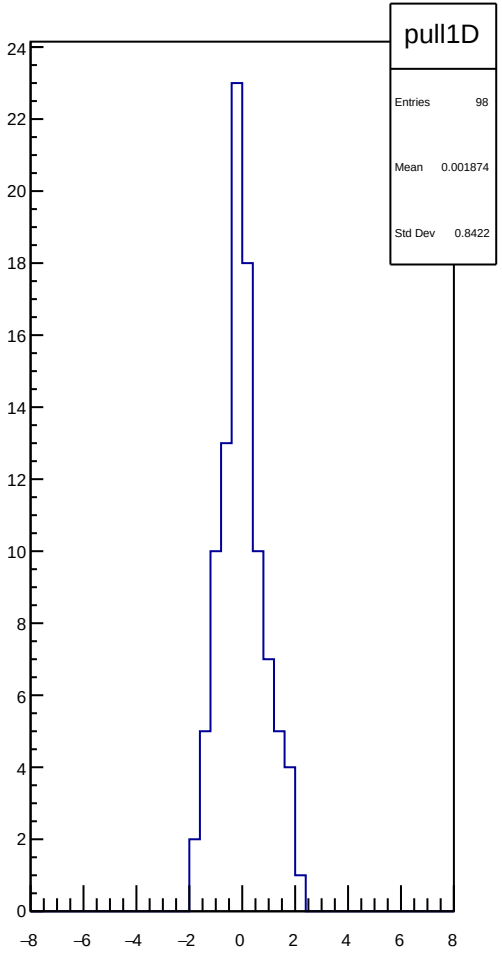

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.37 / 97
p0 −0.0524 ± 0.03875
pull
Entries 98
Mean 293
Std Dev 0
pull1D
Entries 98
Mean 0.007197
Std Dev 0.9496

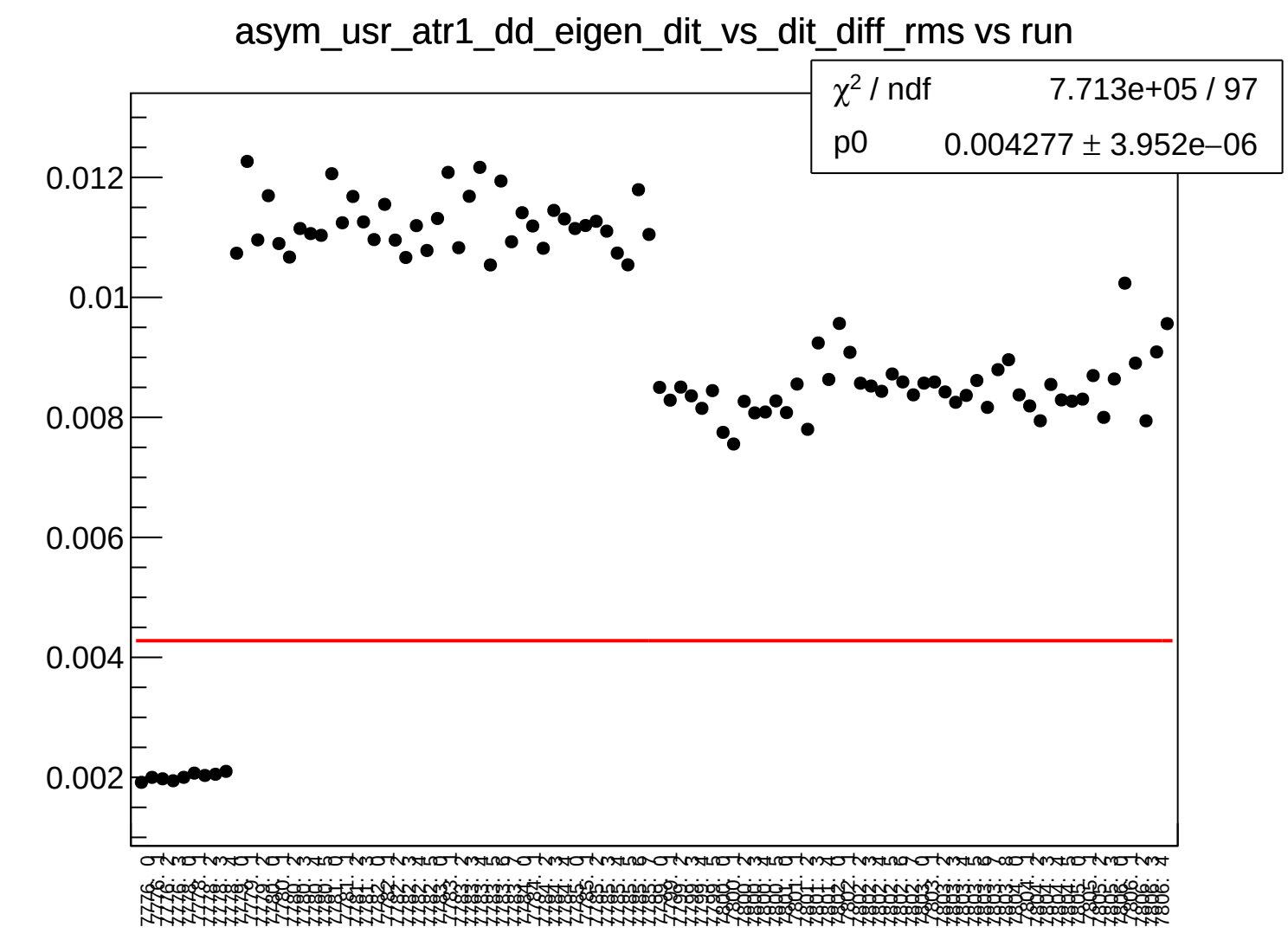

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.768e+05 / 97
p0 35.37 ± 0.0274
100
80
60
40
20

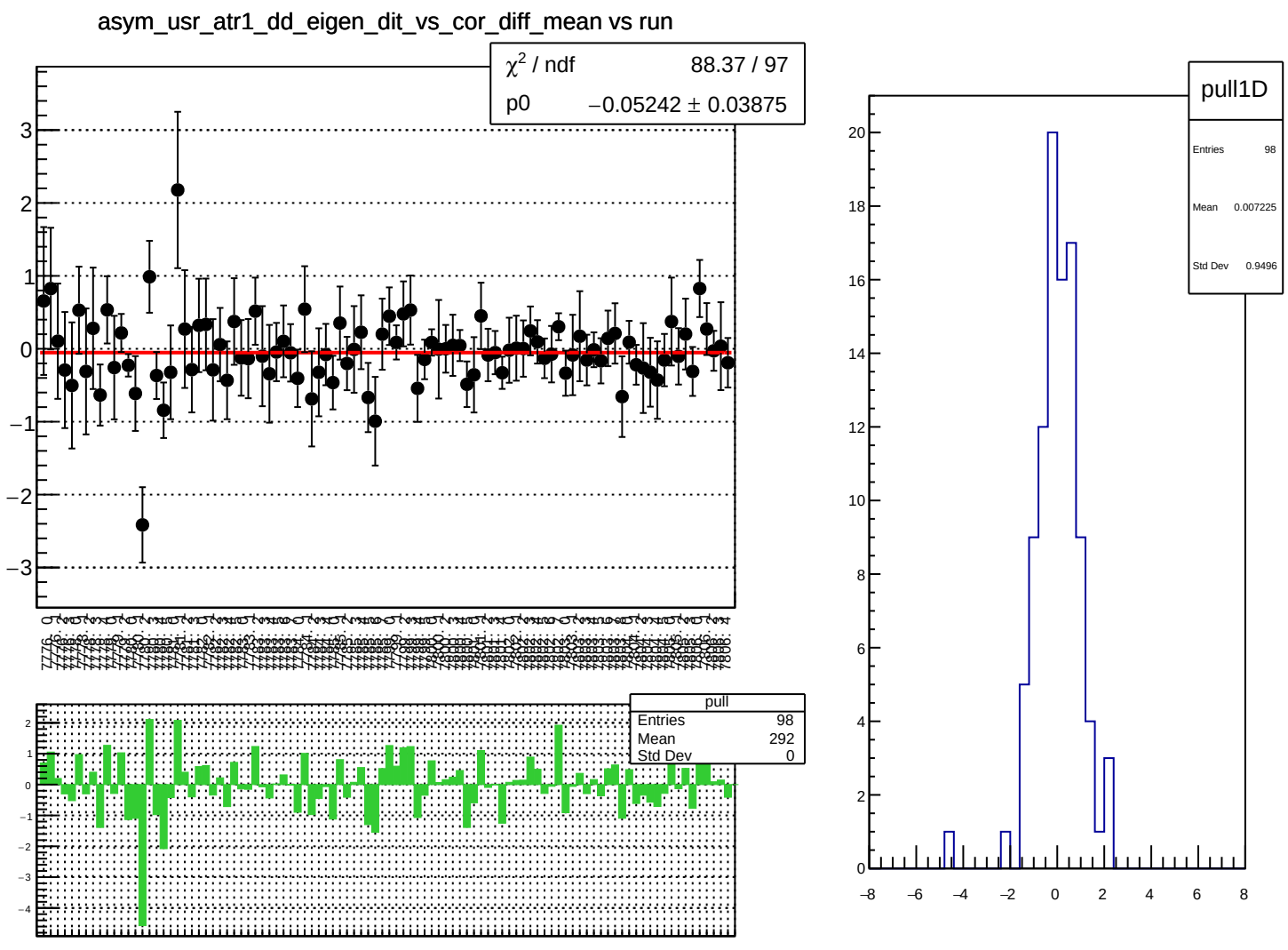

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.37 / 97
p0 −0.0524 ± 0.03875
pull
Entries 98
Mean 293
Std Dev 0
pull1D
Entries 98
Mean 0.007197
Std Dev 0.9496

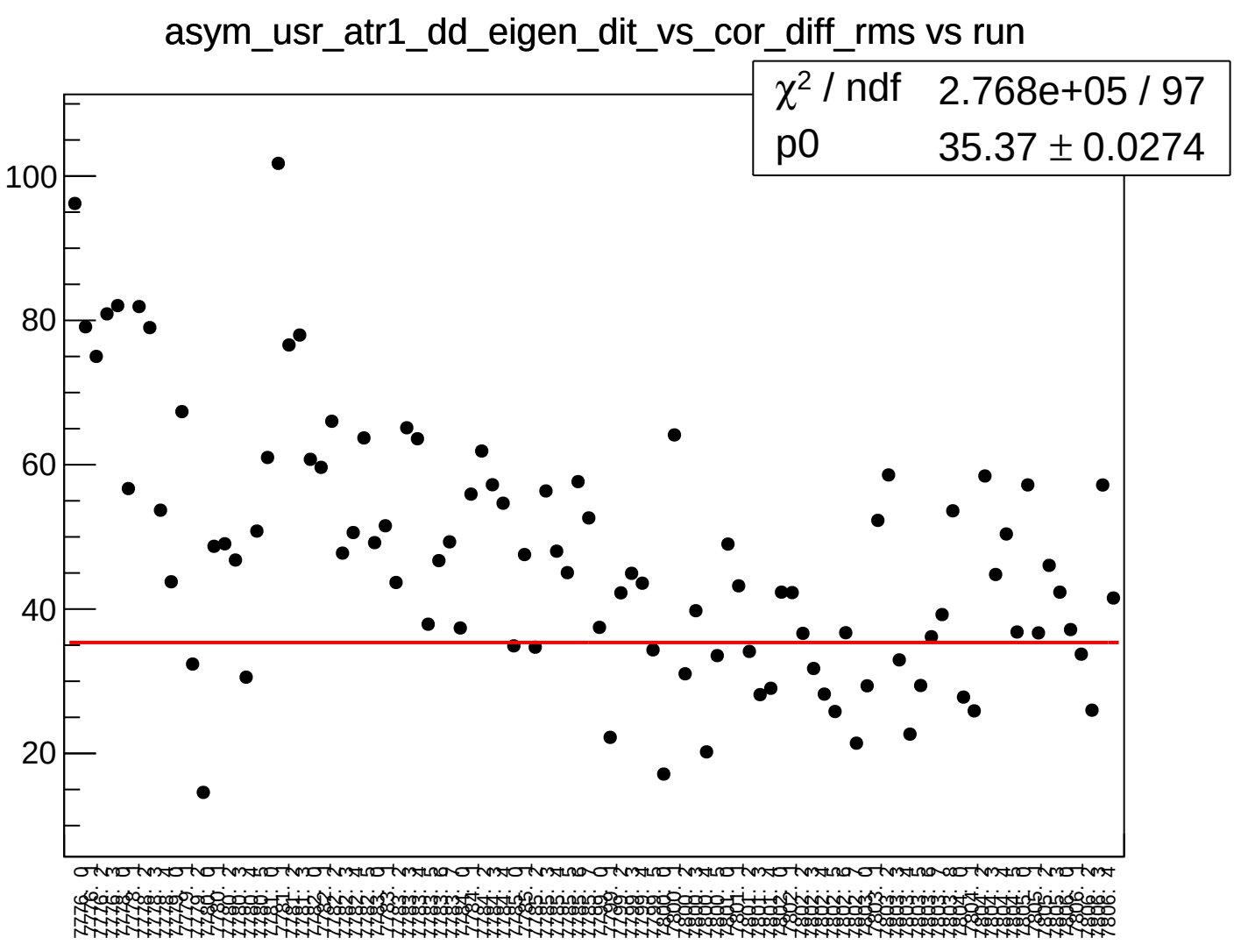

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.768e+05 / 97
p0 35.37 ± 0.0274
100
80
60
40
20

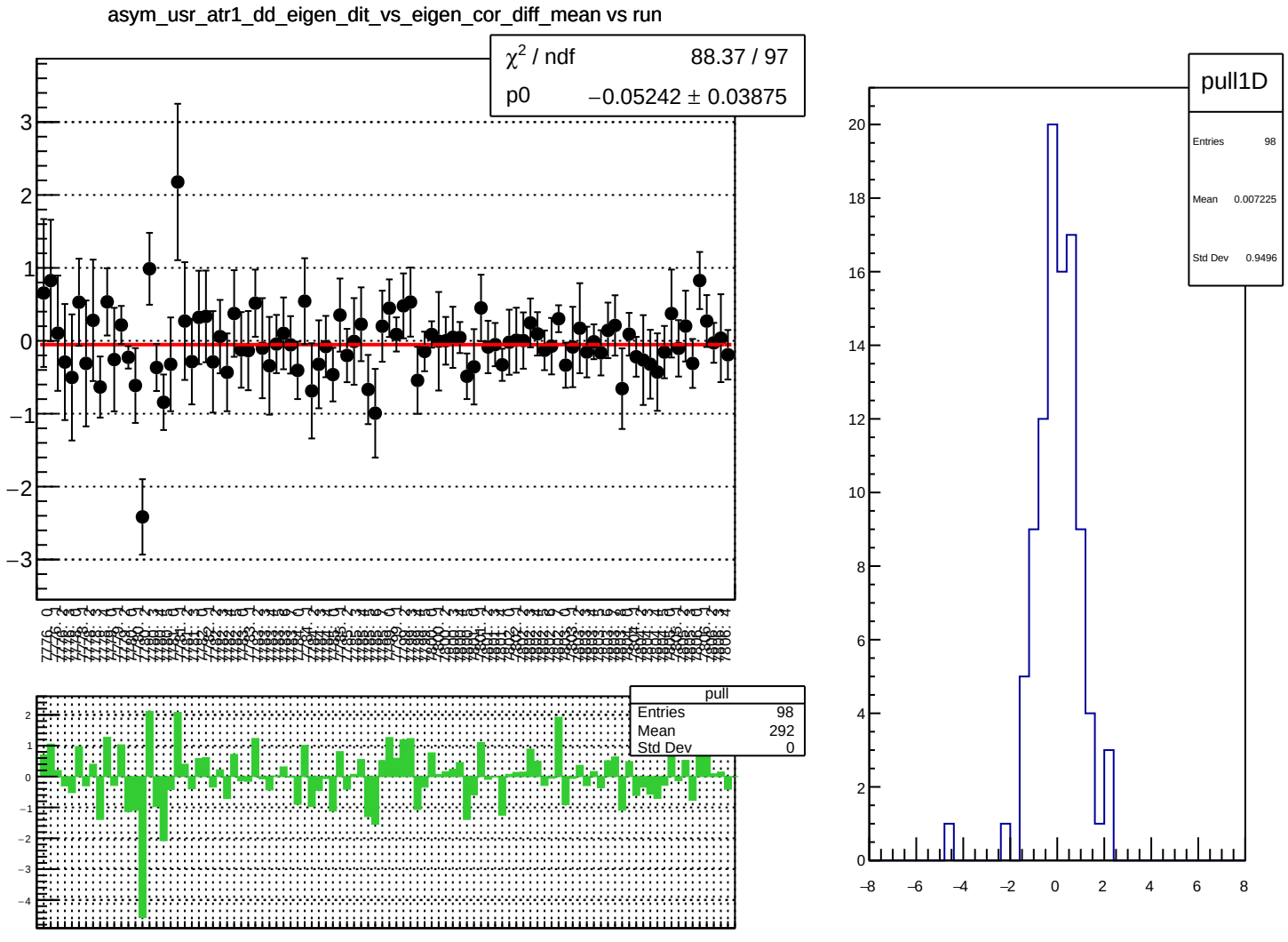

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.51 / 97
p0 −2.037e−06 ± 5.589e−06
pull
Entries 98
Mean −2355
Std Dev 0

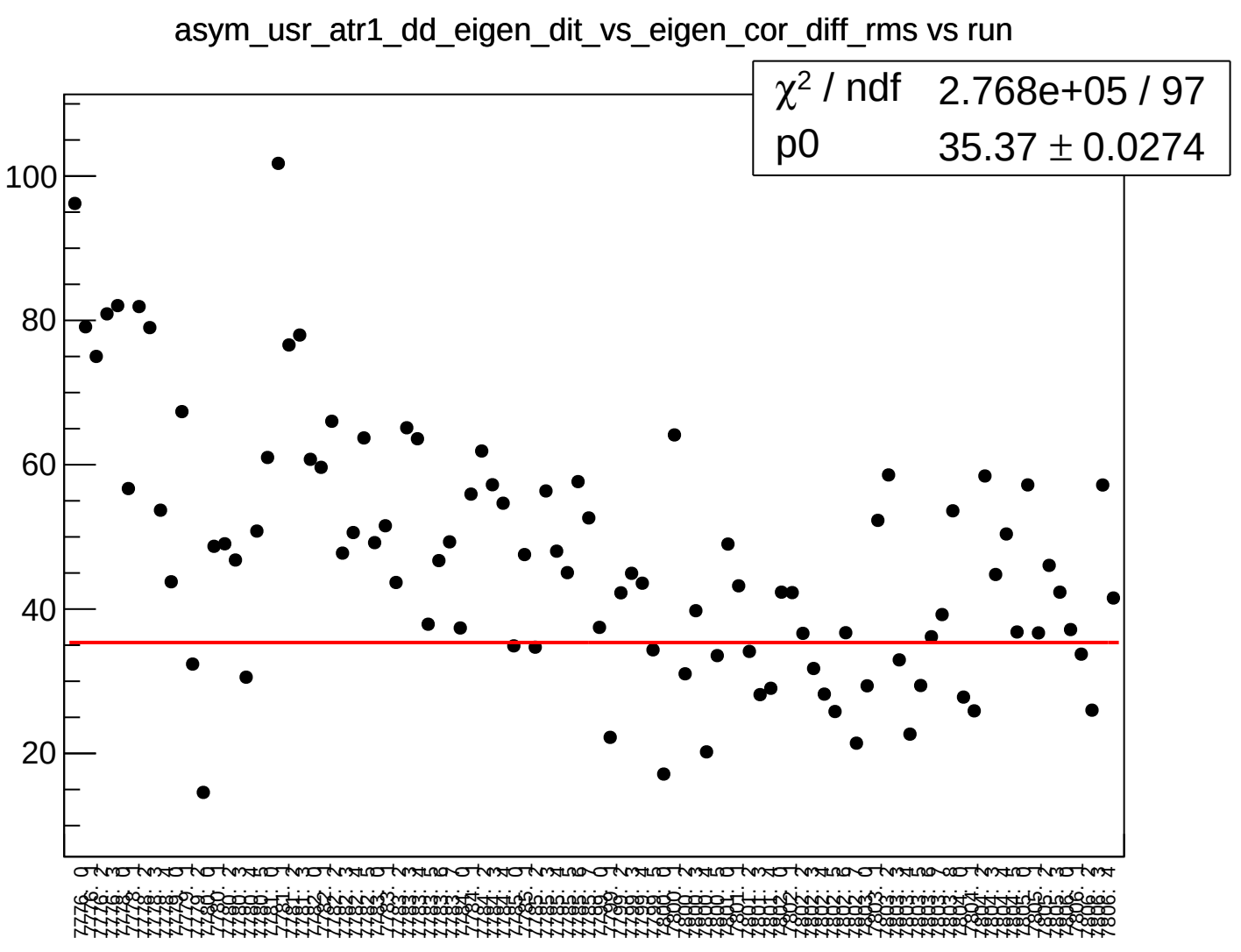

pull1D
Entries 98
Mean 0.001874
Std Dev 0.8422

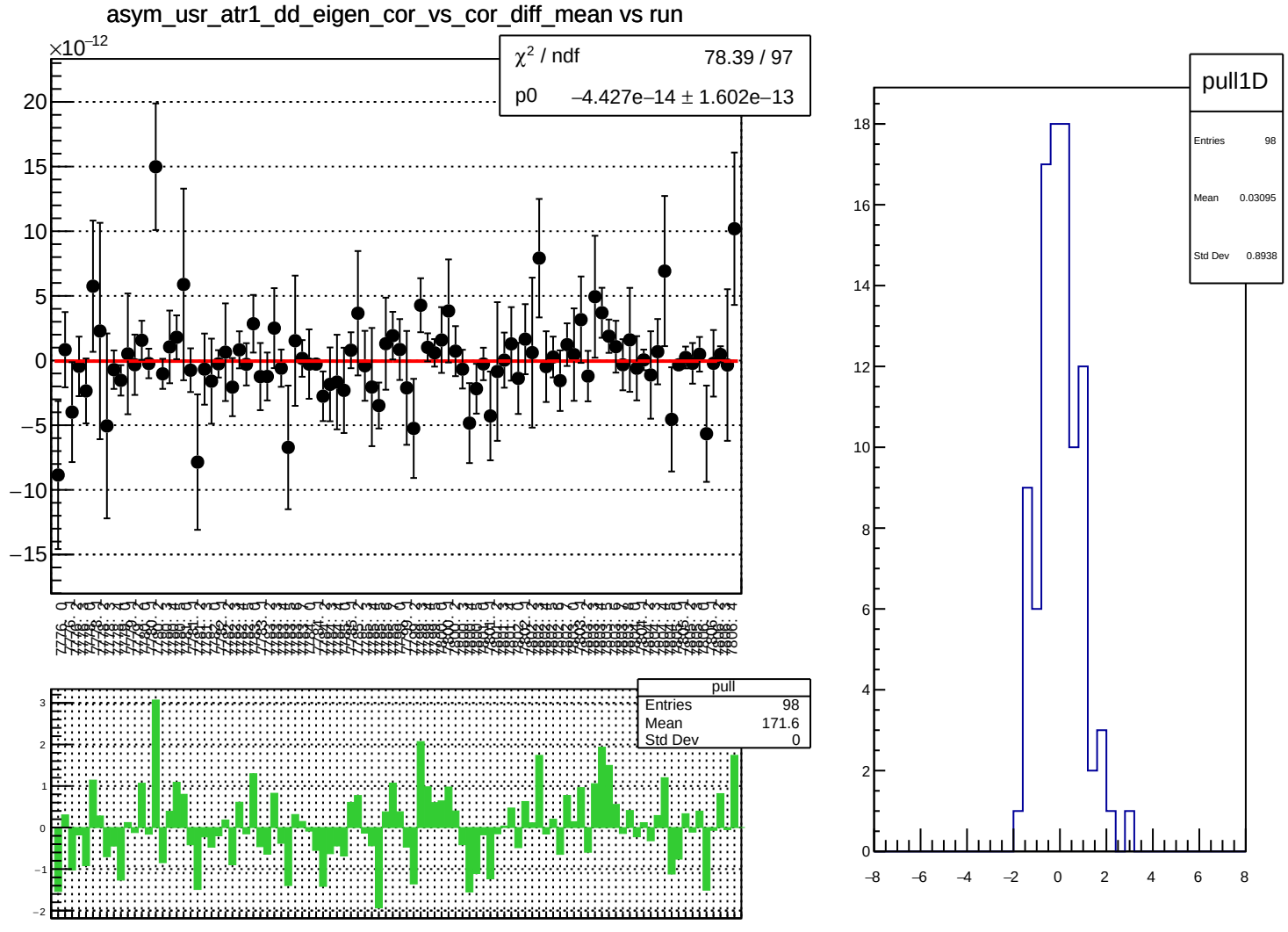

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.713e+05 / 97
p0 0.004277 ± 3.952e−06
0.012
0.01
0.008
0.006
0.004
0.002

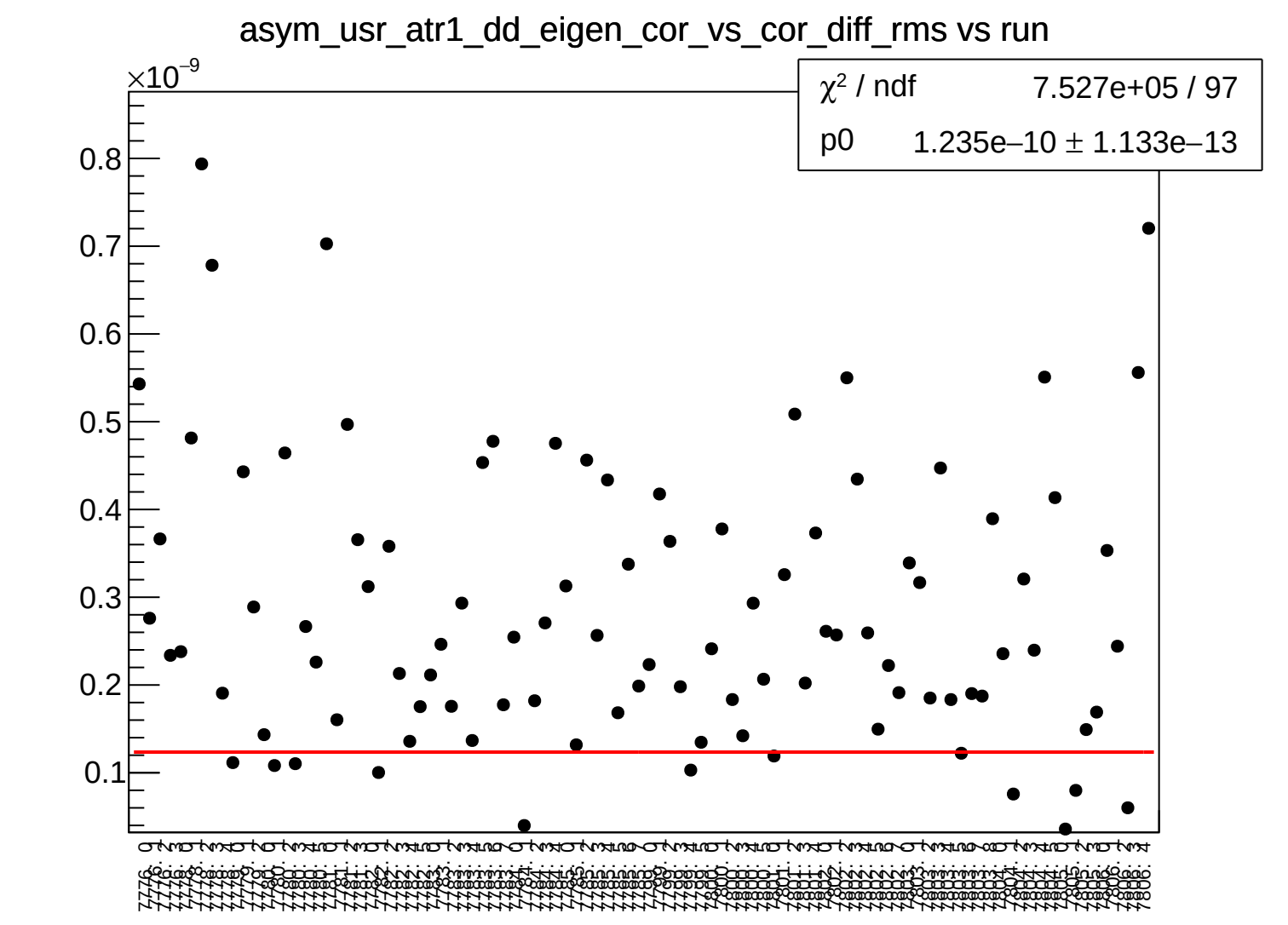

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.37 / 97
p0 −0.05242 ± 0.03875
pull
Entries 98
Mean 292
Std Dev 0
pull1D
Entries 98
Mean 0.007225
Std Dev 0.9496

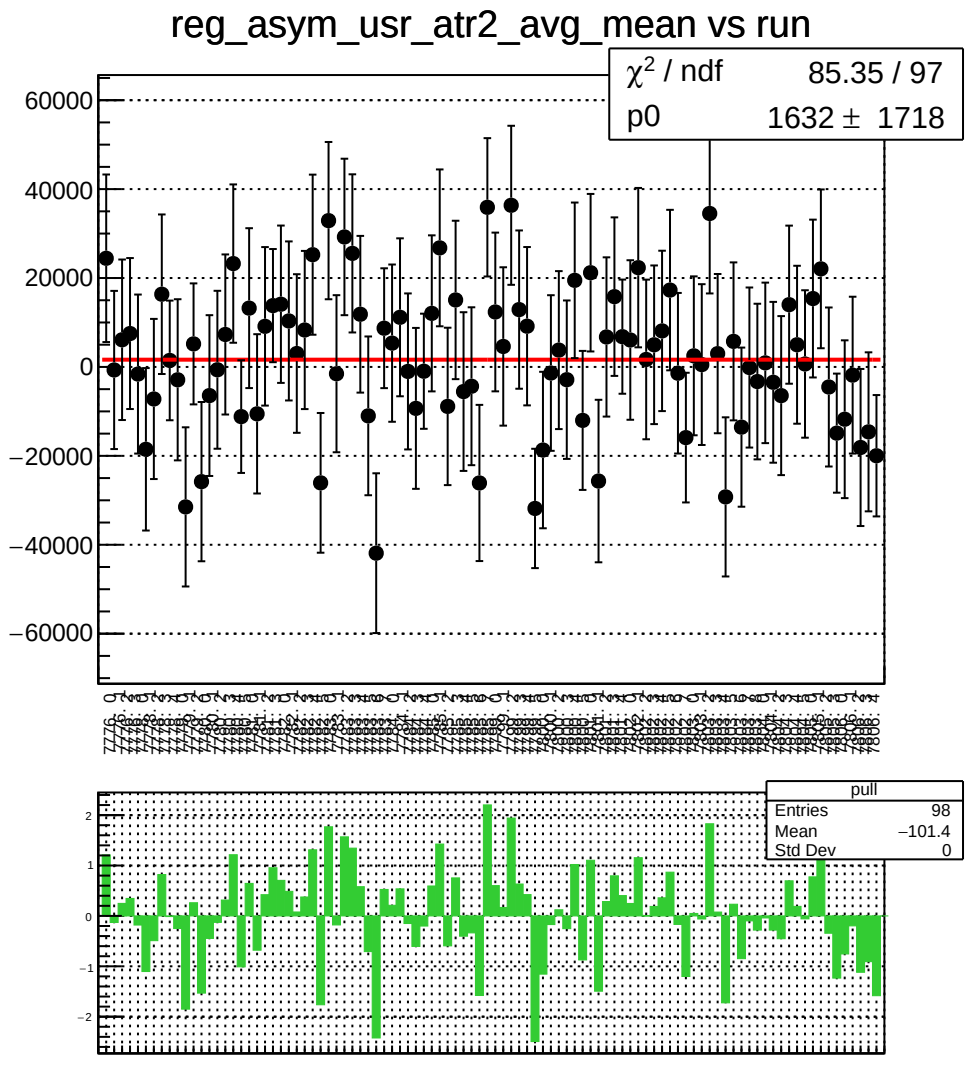

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.768e+05 / 97
p0 35.37 ± 0.0274
100
80
60
40
20

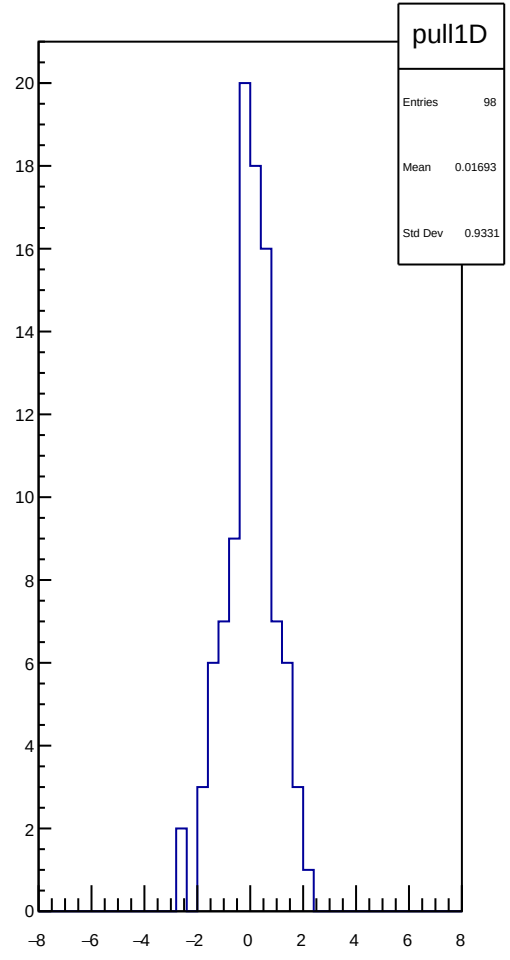

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.37 / 97
p0 −0.05242 ± 0.03875
pull
Entries 98
Mean 292
Std Dev 0
pull1D
Entries 98
Mean 0.007225
Std Dev 0.9496

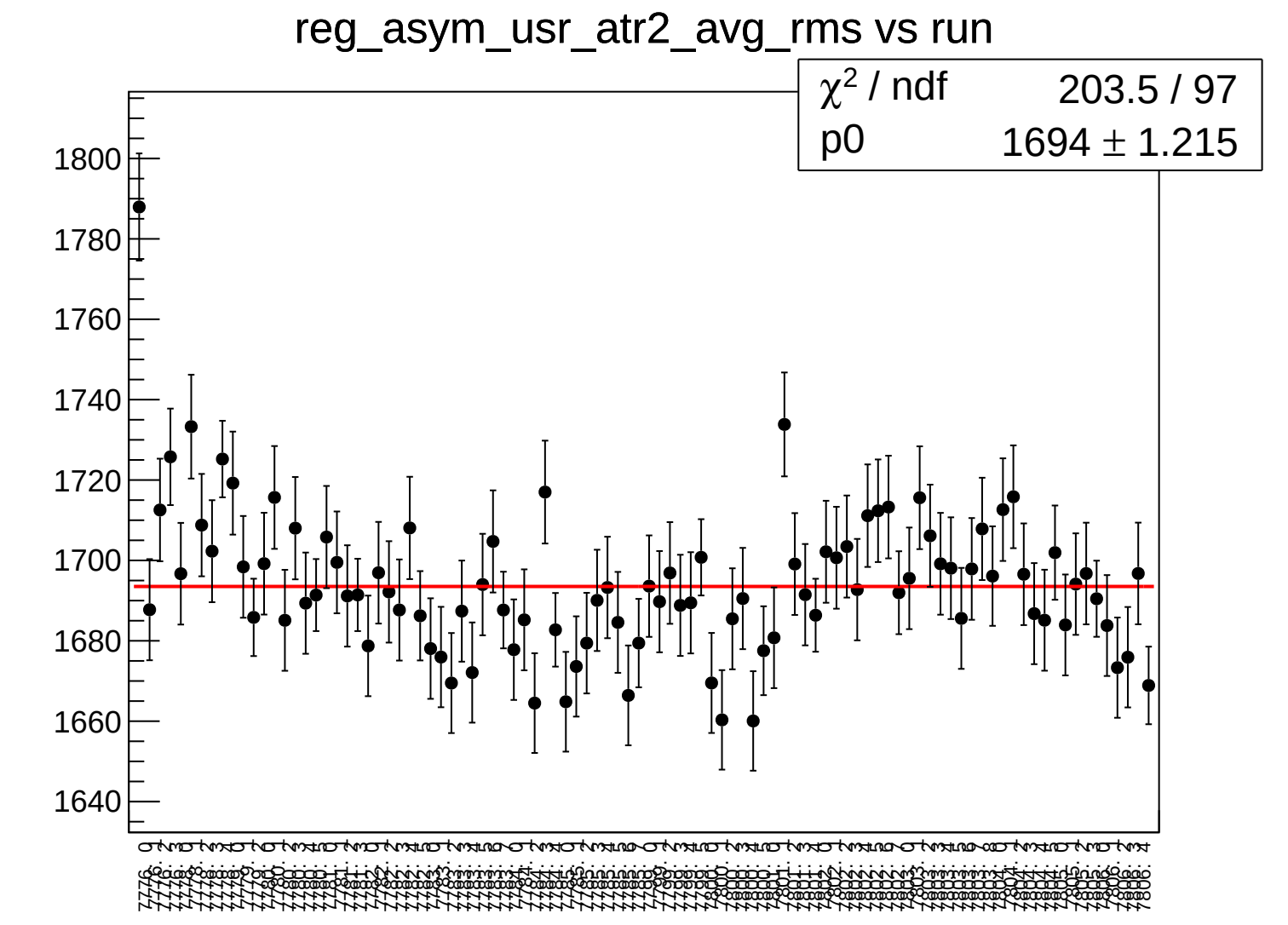

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.768e+05 / 97
p0 35.37 ± 0.0274
100
80
60
40
20

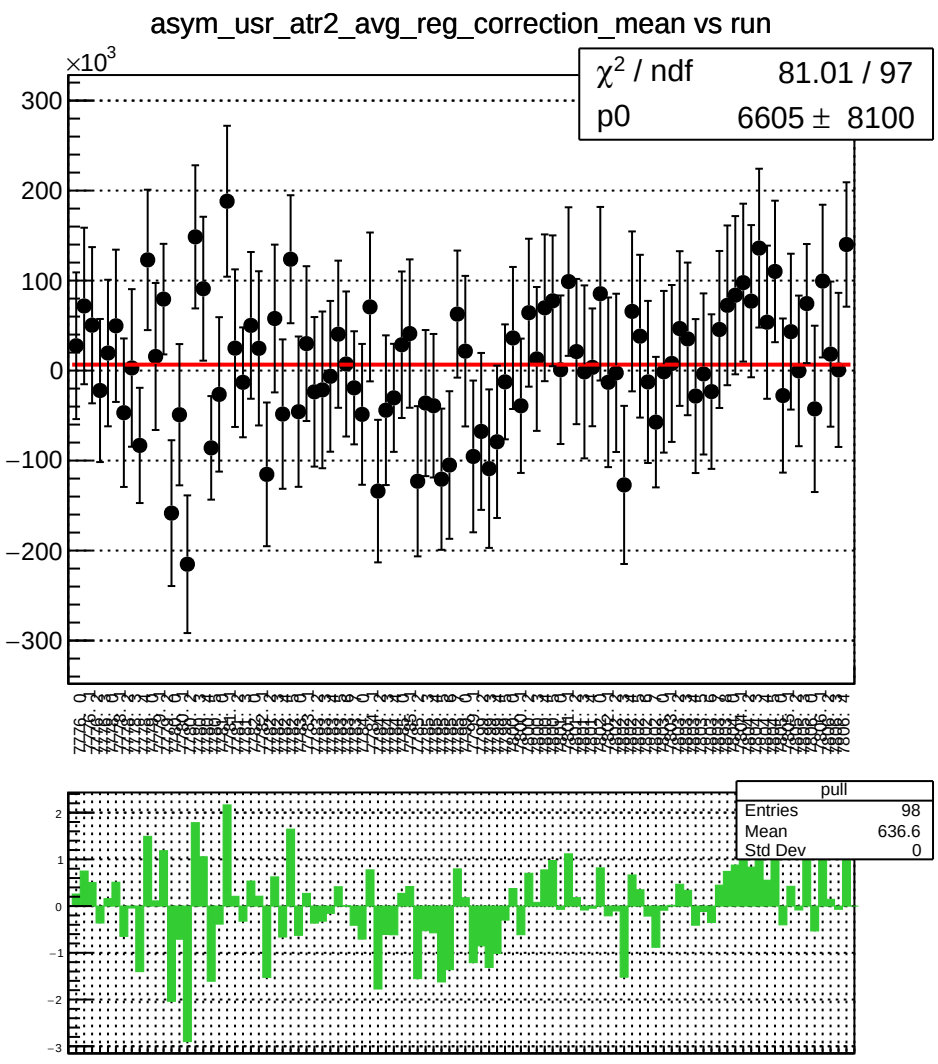

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.39 / 97
p0 −4.427e−14 ± 1.602e−13
20
15
10
5
0
−5
−10
−15
pull
Entries 98
Mean 171.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.03095
Std Dev 0.8938
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

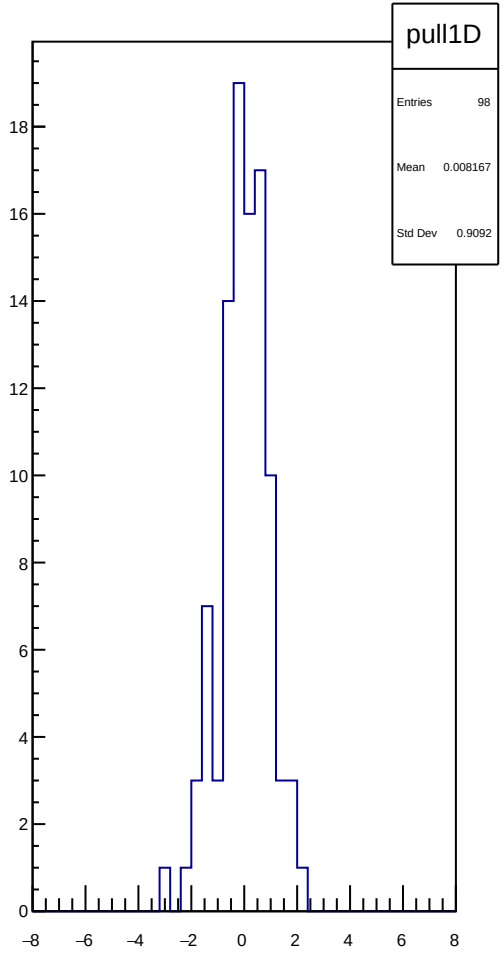

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.527e+05 / 97
p0 1.235e−10 ± 1.133e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

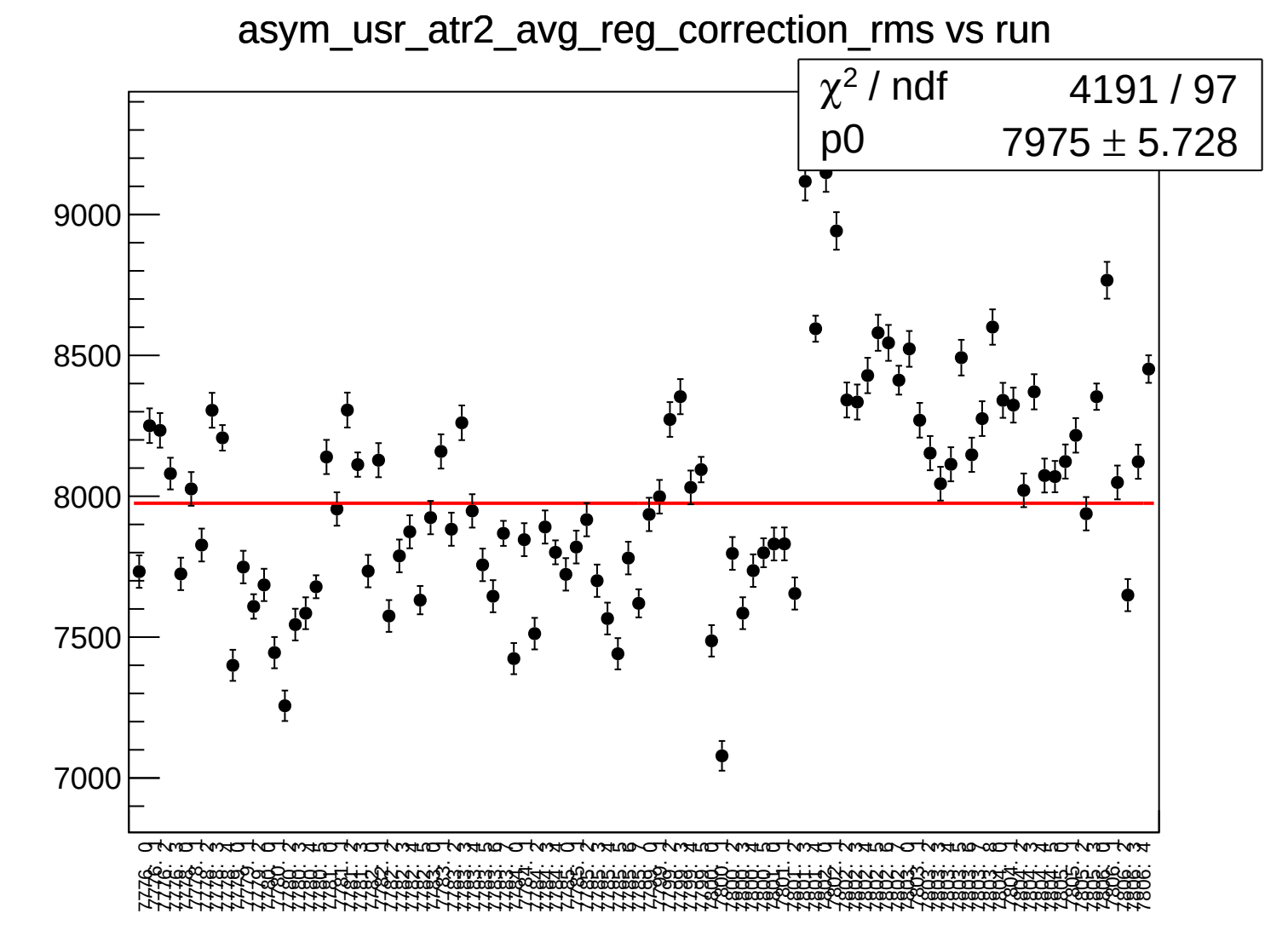

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 85.35 / 97
p0 1632 ± 1718
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −101.4
Std Dev 0
2
1
0
−1
−2

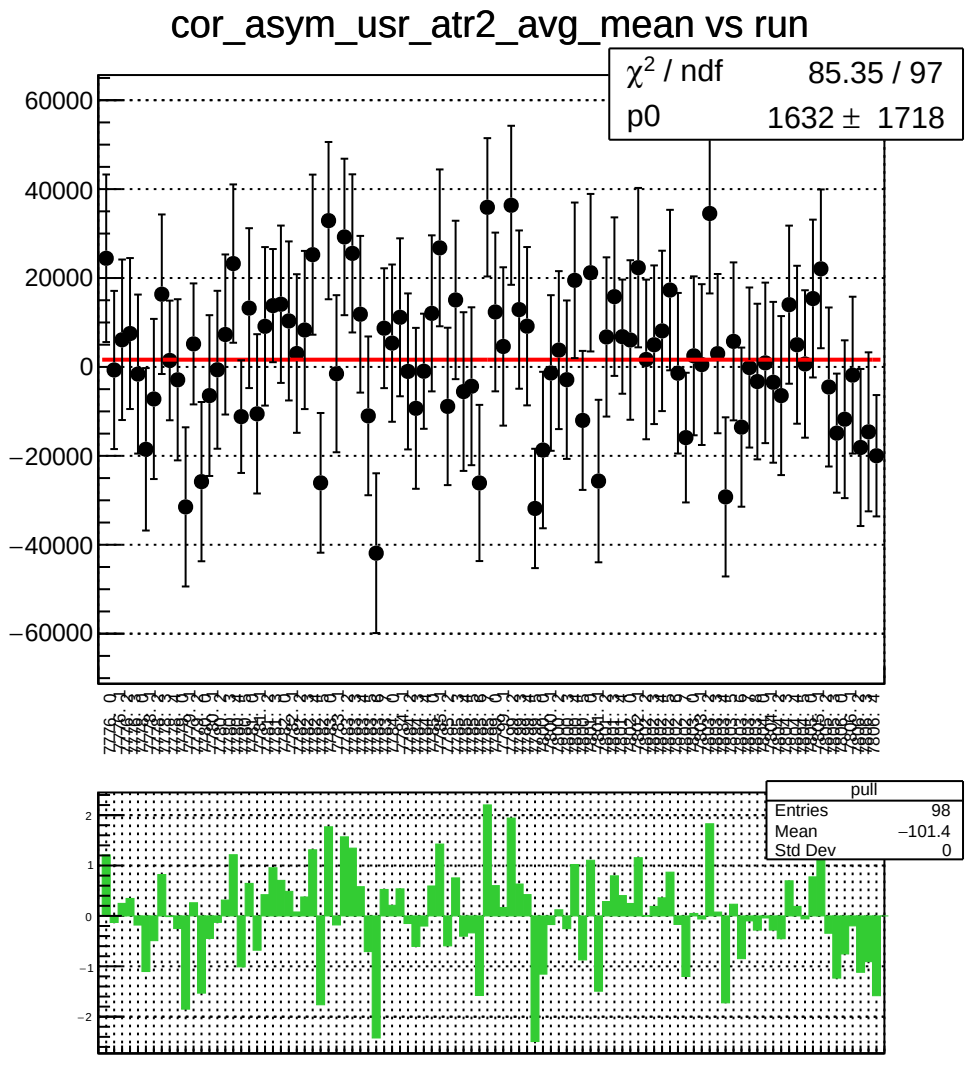

pull1D
Entries 98
Mean 0.01693
Std Dev 0.9331
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

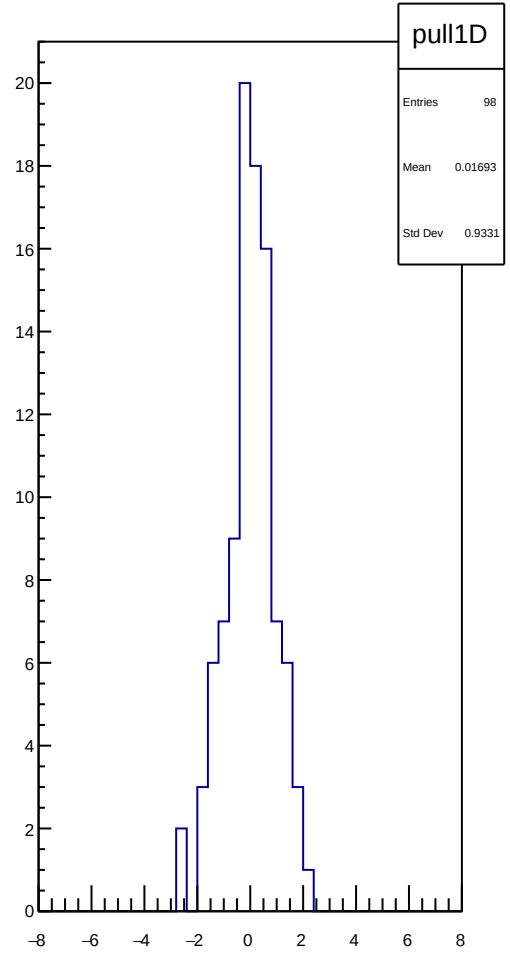

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 203.5 / 97
p0 1694 ± 1.215
1800
1780
1760
1740
1720
1700
1680
1660
1640

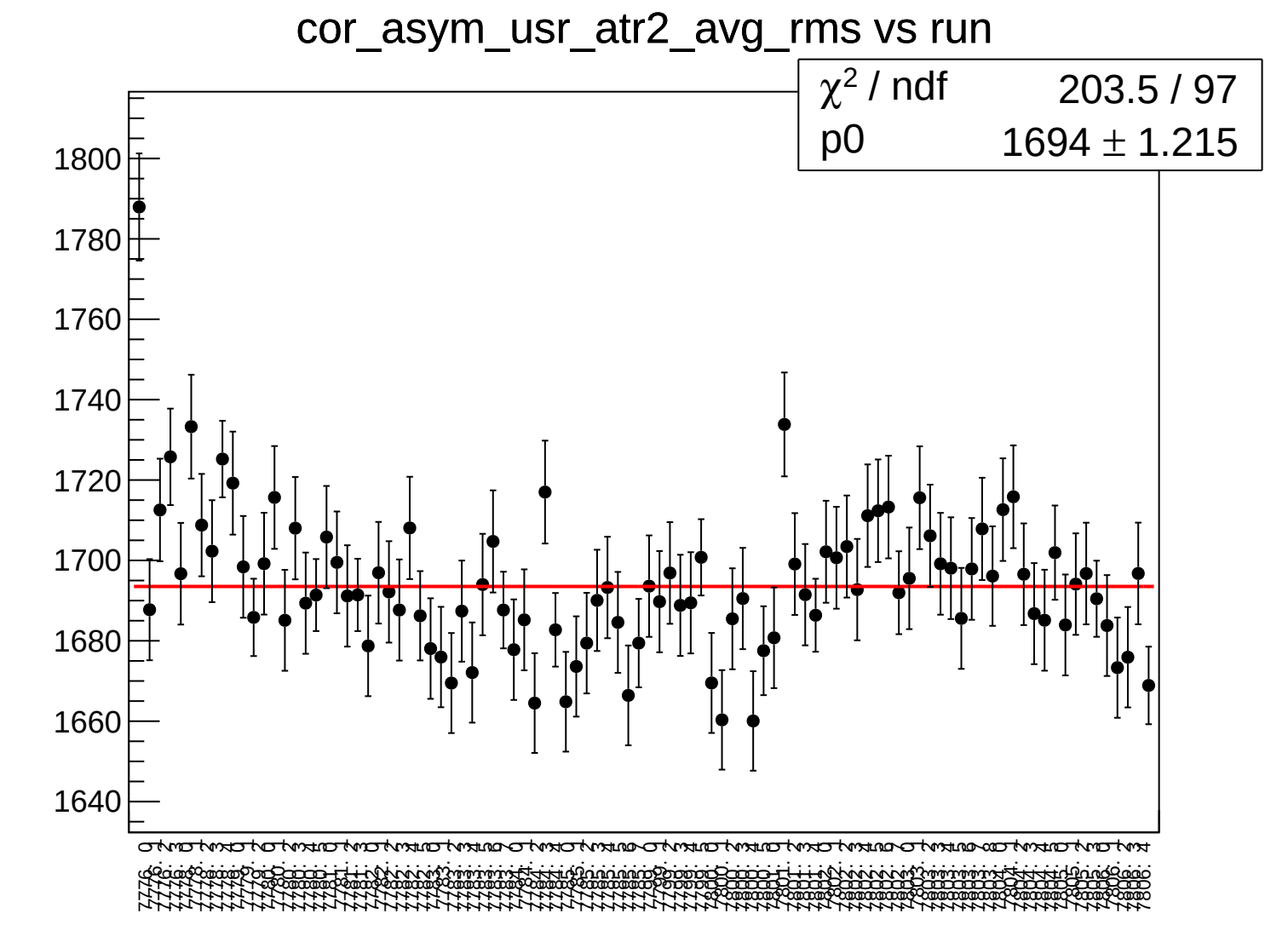

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.01 / 97
p0 6605 ± 8100
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 636.6
Std Dev 0
2
1
0
−1
−2
−3

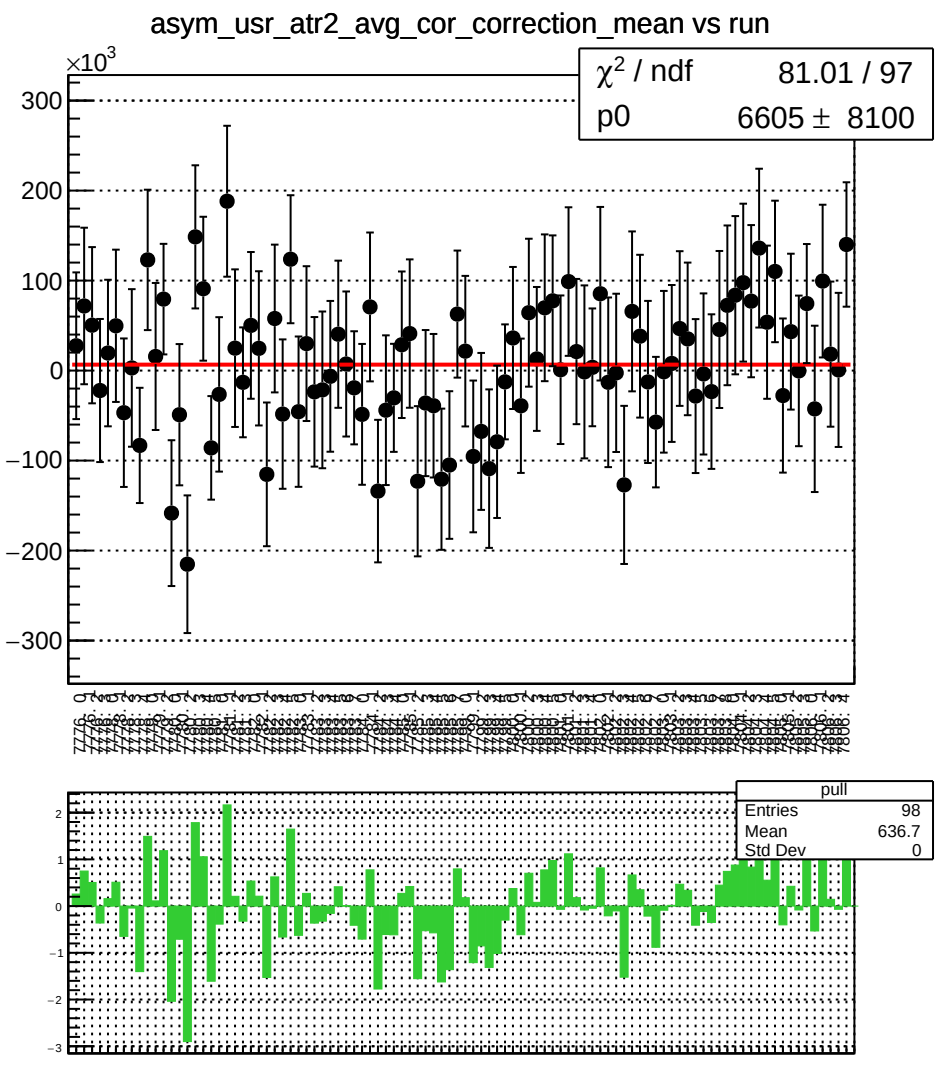

pull1D
Entries 98
Mean 0.008167
Std Dev 0.9092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

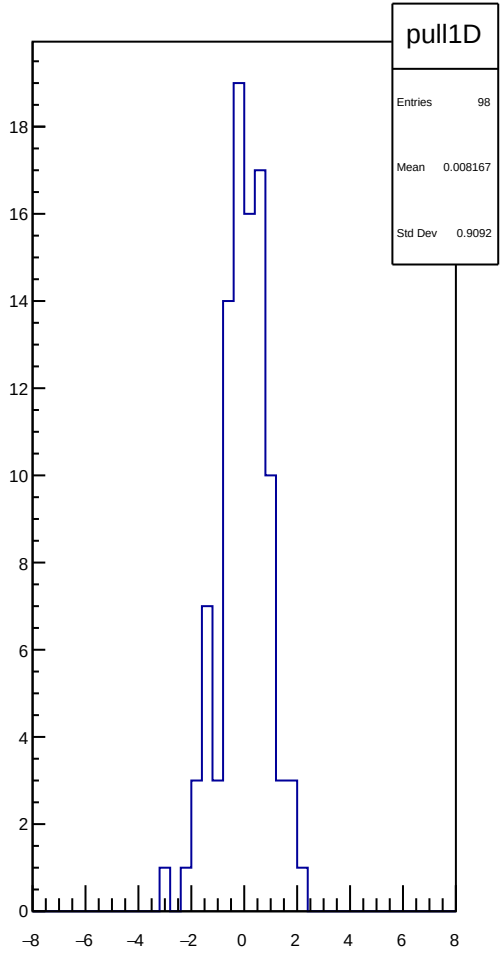

asym_usr_atr2_avg_reg_correction_rms vs run
χ^2 / ndf 4191 / 97
p0 7975 ± 5.728
9000
8500
8000
7500
7000

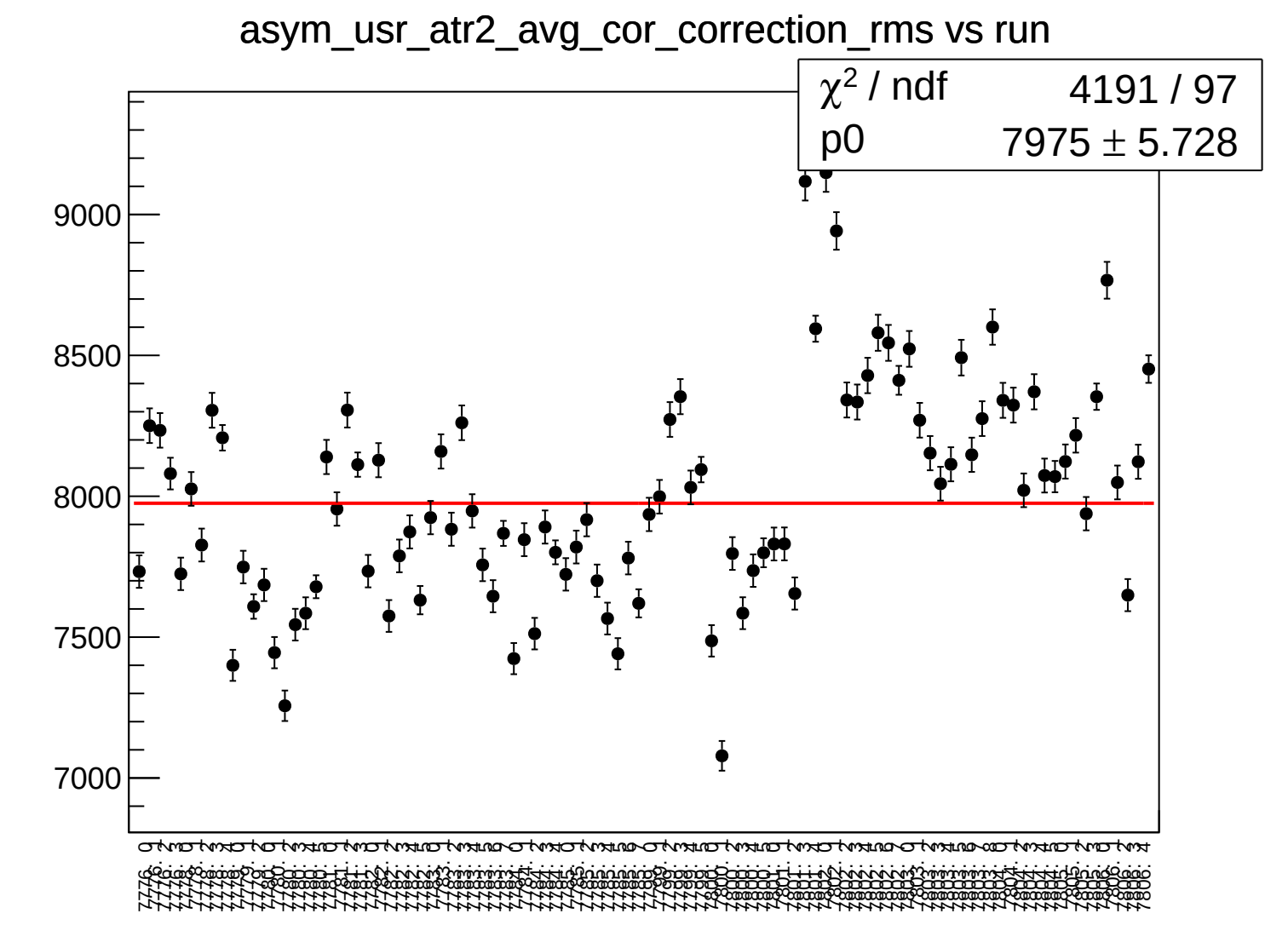

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 85.35 / 97
p0 1632 ± 1718
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −101.4
Std Dev 0
2
1
0
−1
−2

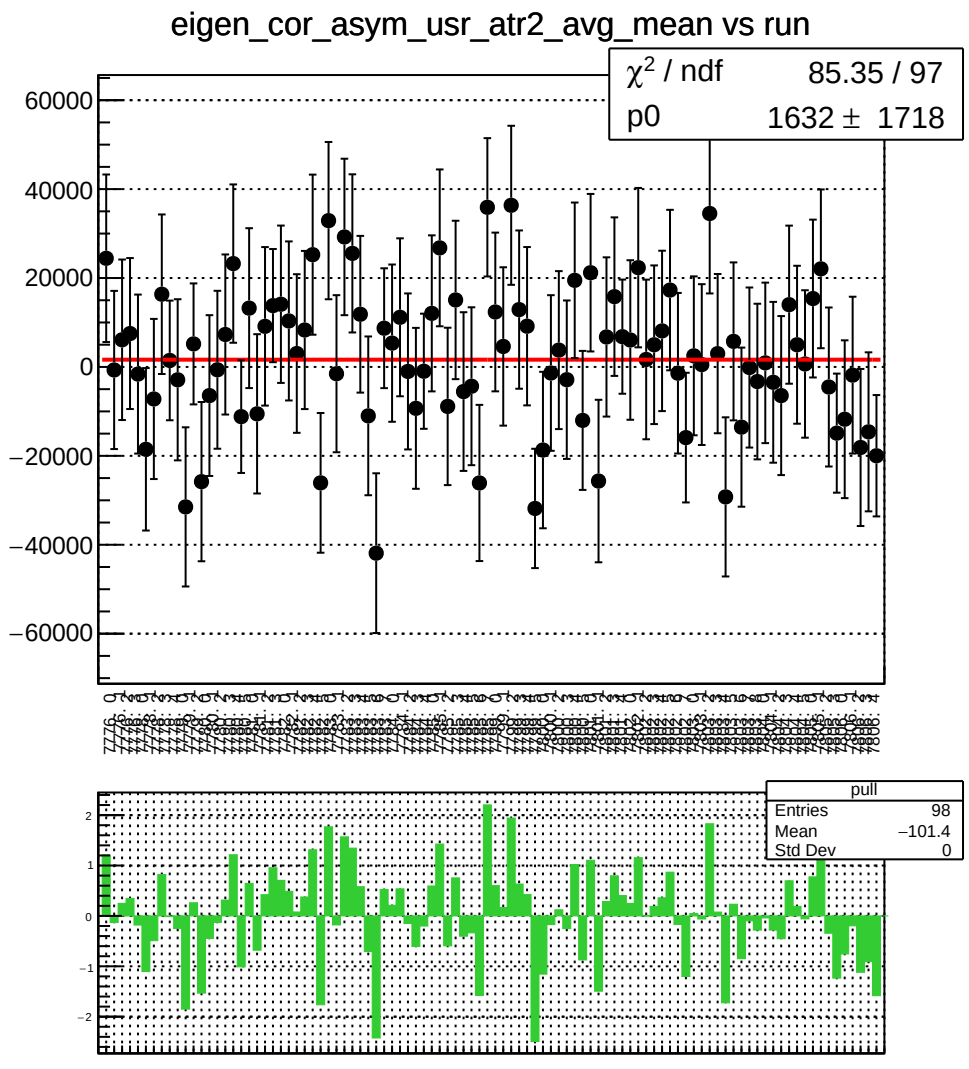

pull1D
Entries 98
Mean 0.01693
Std Dev 0.9331
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

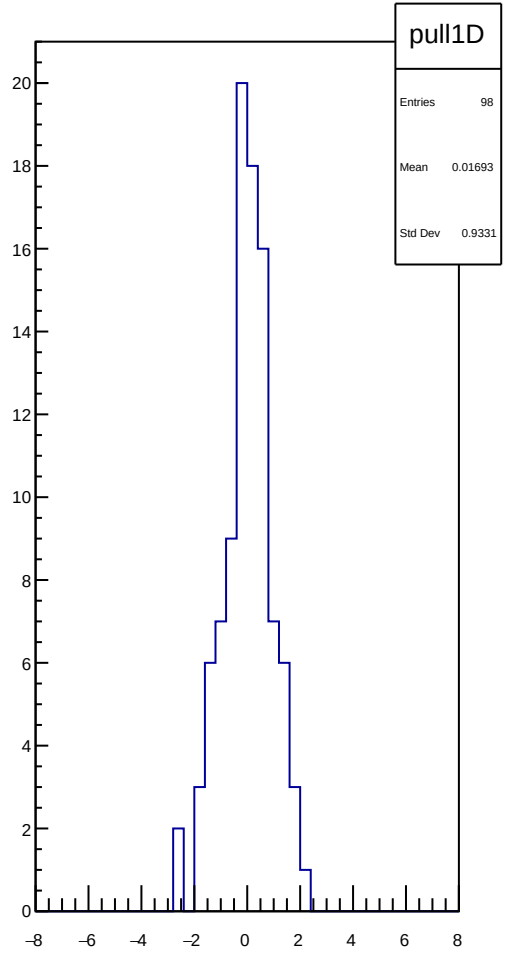

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 203.5 / 97
p0 1694 ± 1.215
1800
1780
1760
1740
1720
1700
1680
1660
1640

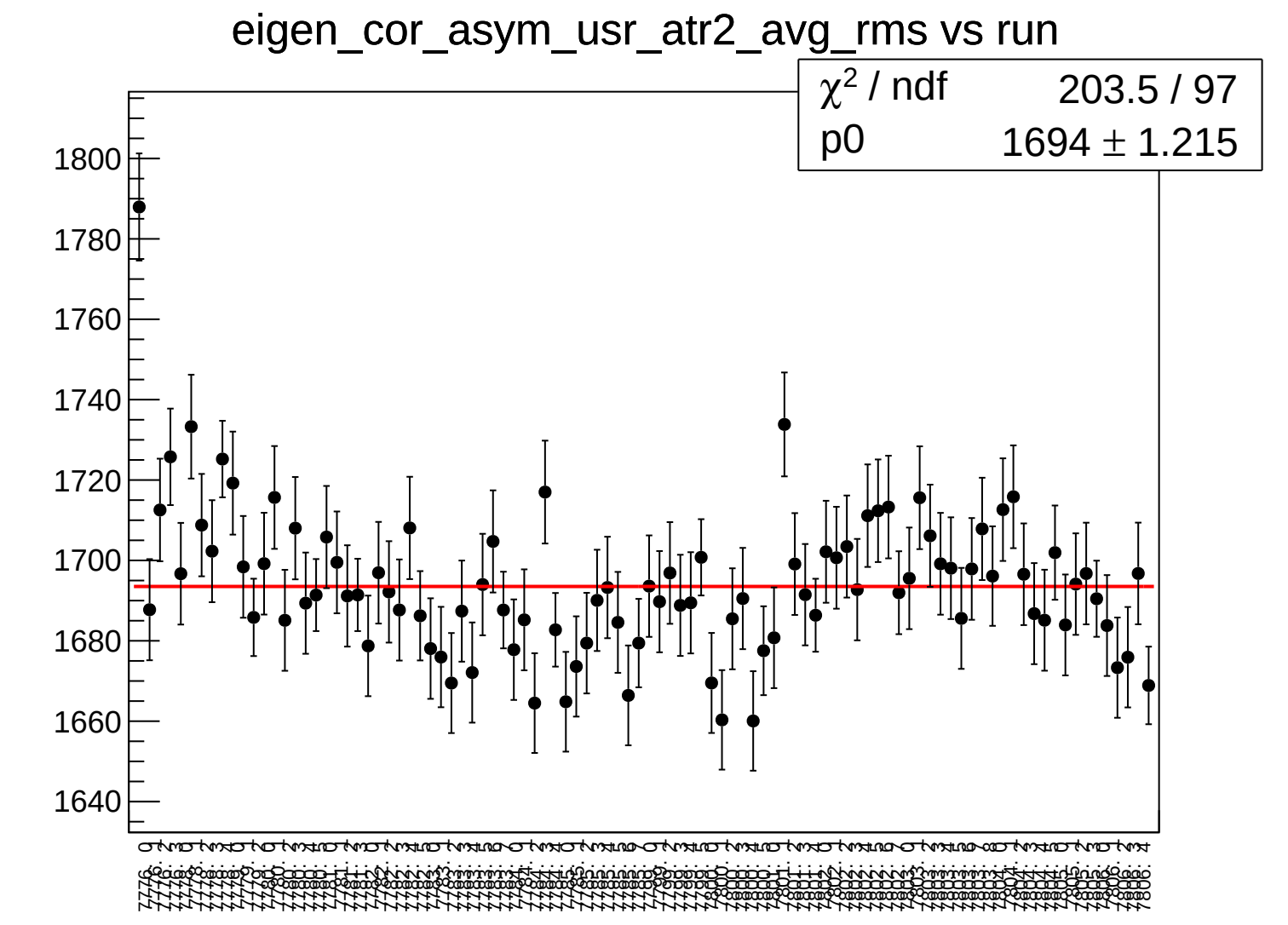

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.01 / 97
p0 6605 ± 8100
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 636.7
Std Dev 0
2
1
0
−1
−2
−3

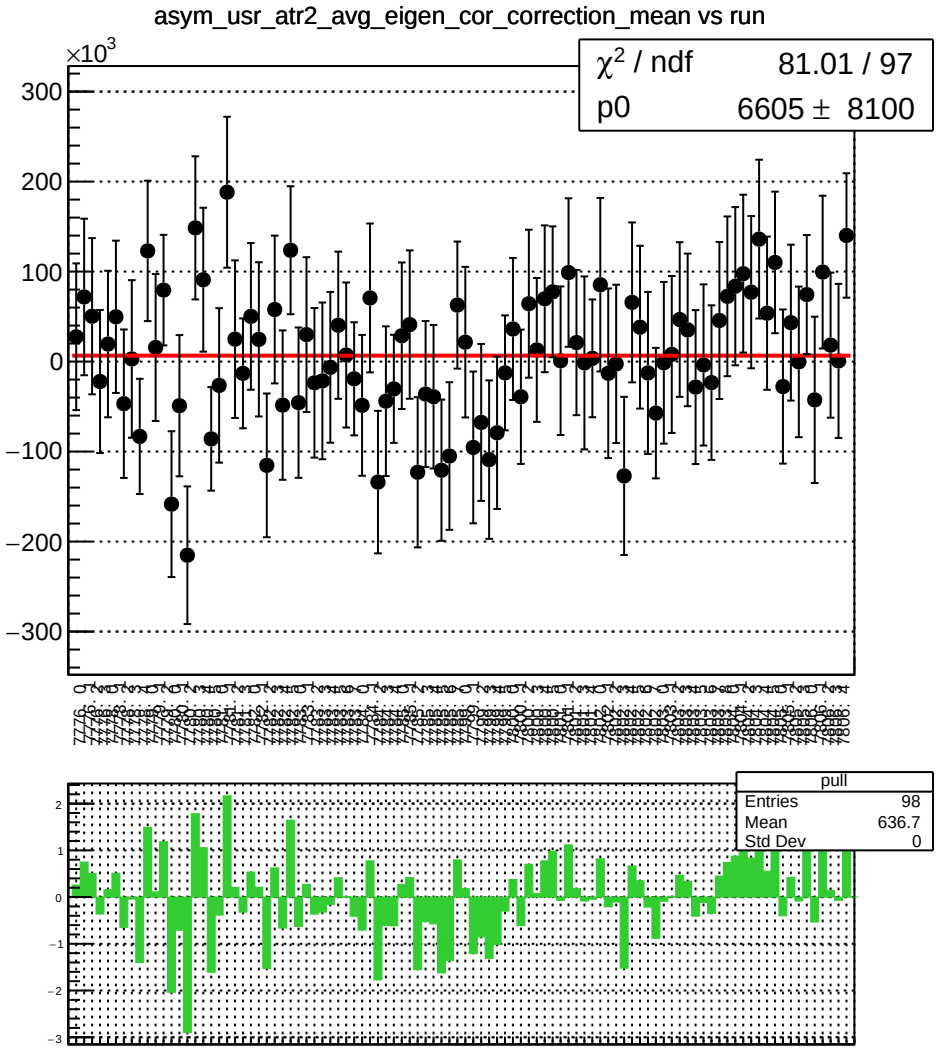

pull1D
Entries 98
Mean 0.008167
Std Dev 0.9092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

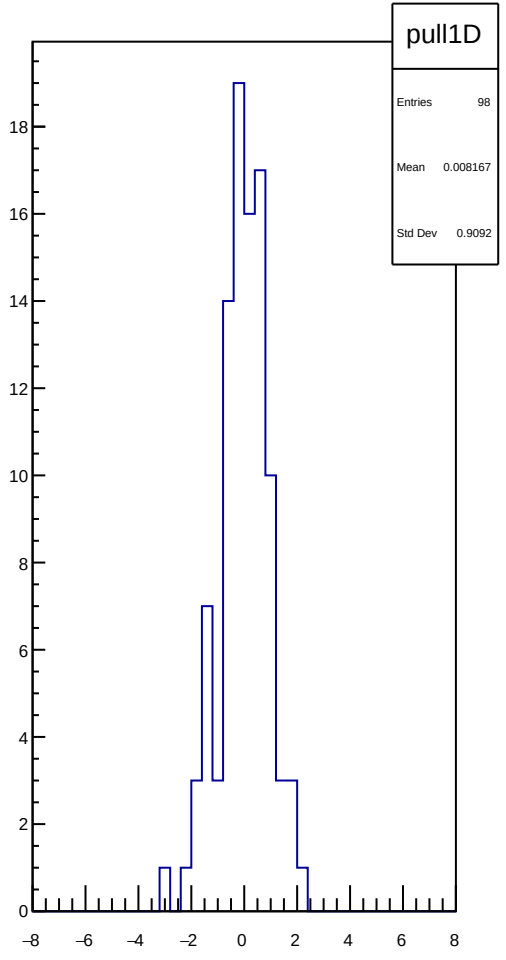

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 4191 / 97
p0 7975 ± 5.728
9000
8500
8000
7500
7000

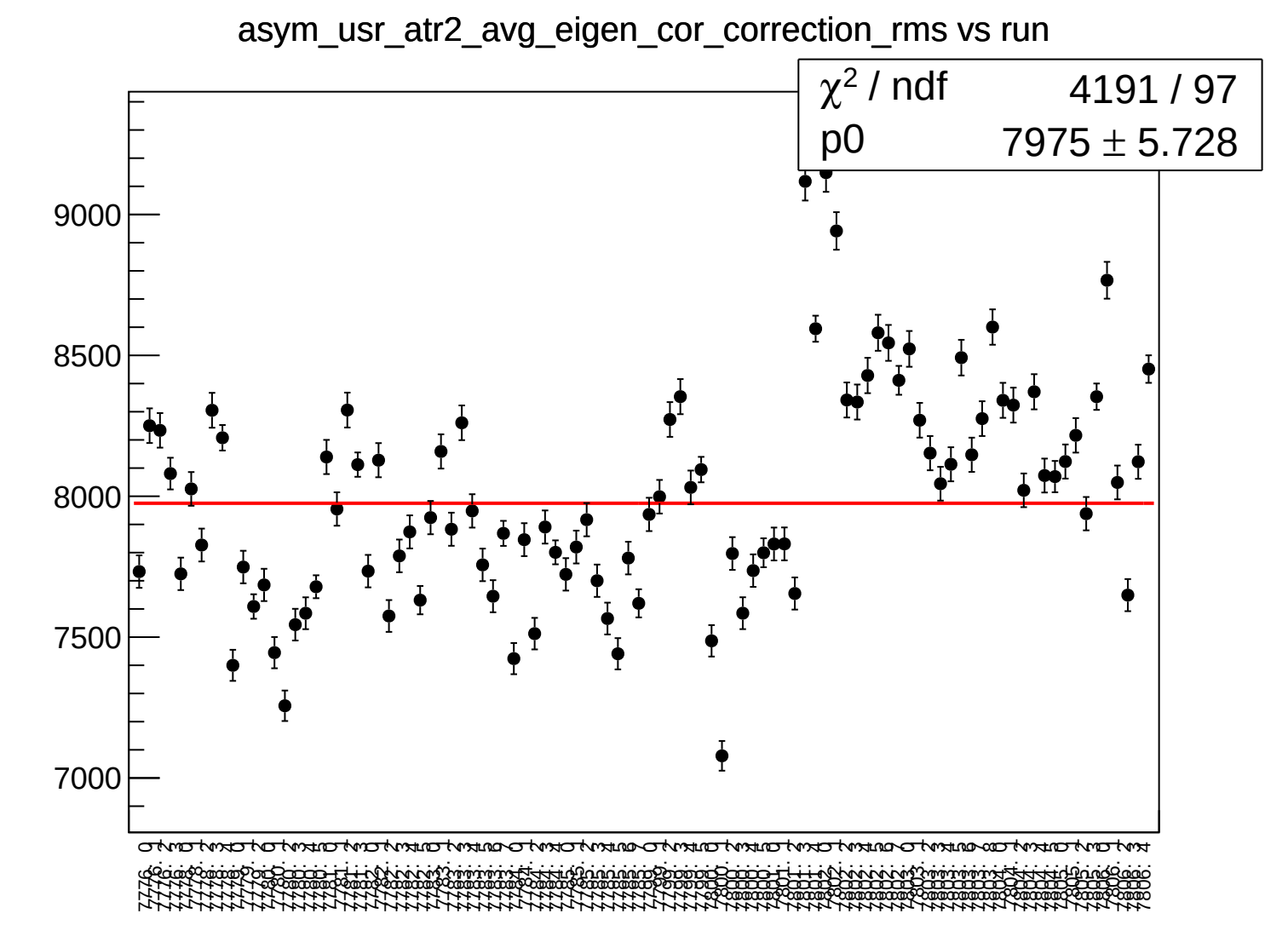

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 85.35 / 97
p0 1632 ± 1718
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −101.4
Std Dev 0
2
1
0
−1
−2

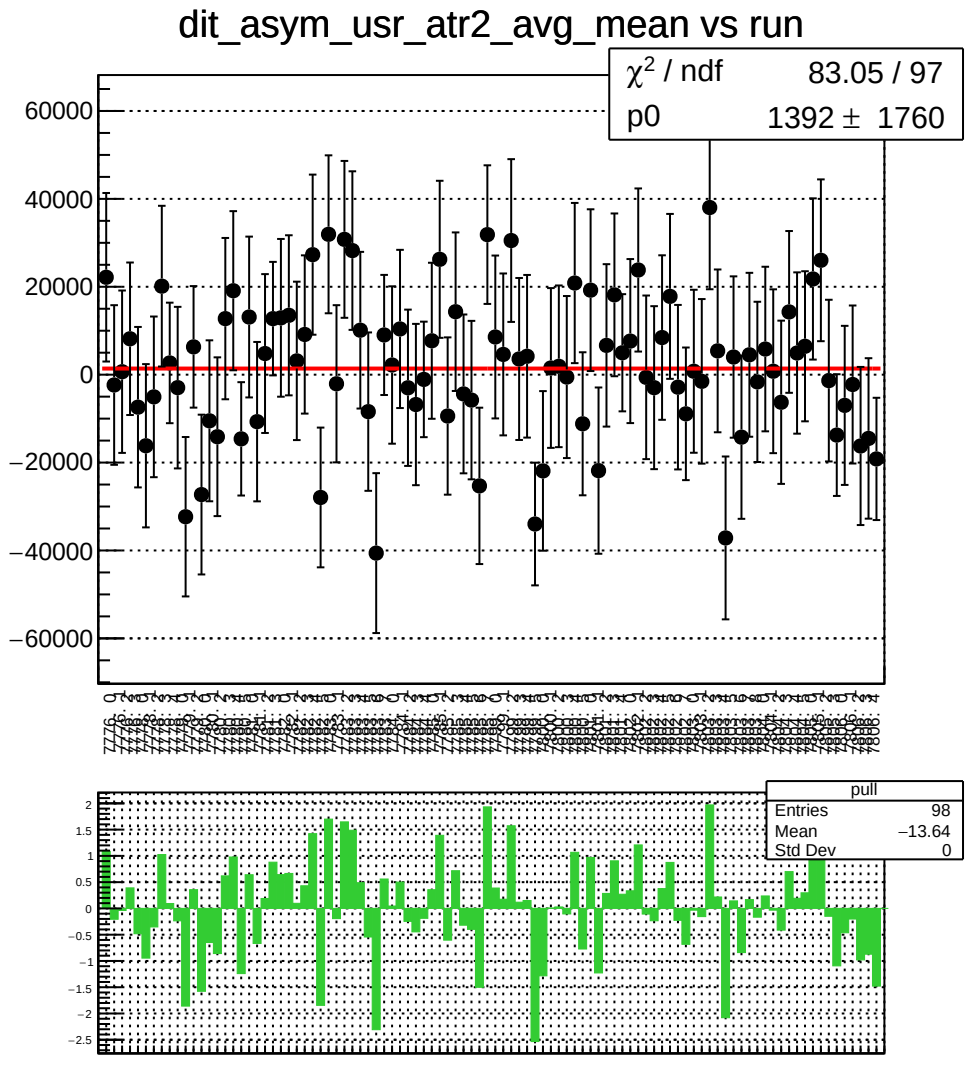

pull1D
Entries 98
Mean 0.01693
Std Dev 0.9331
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

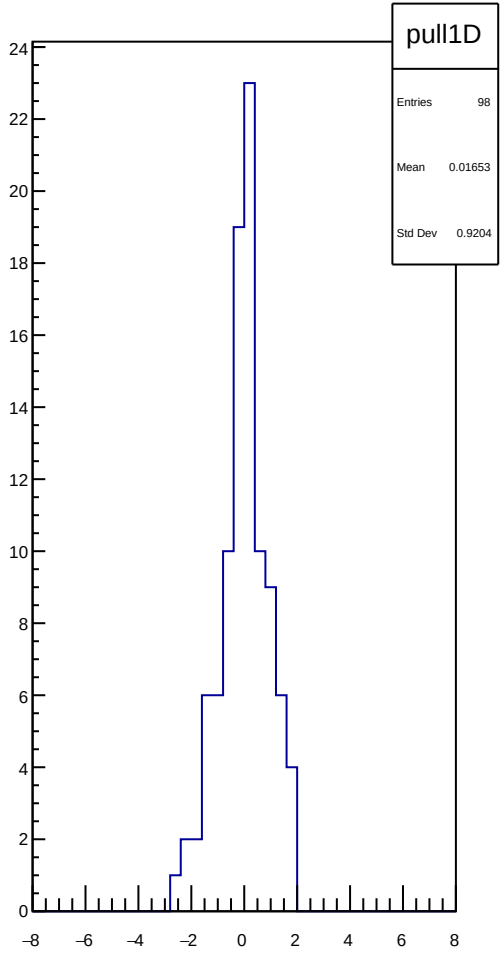

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 203.5 / 97
p0 1694 ± 1.215
1800
1780
1760
1740
1720
1700
1680
1660
1640

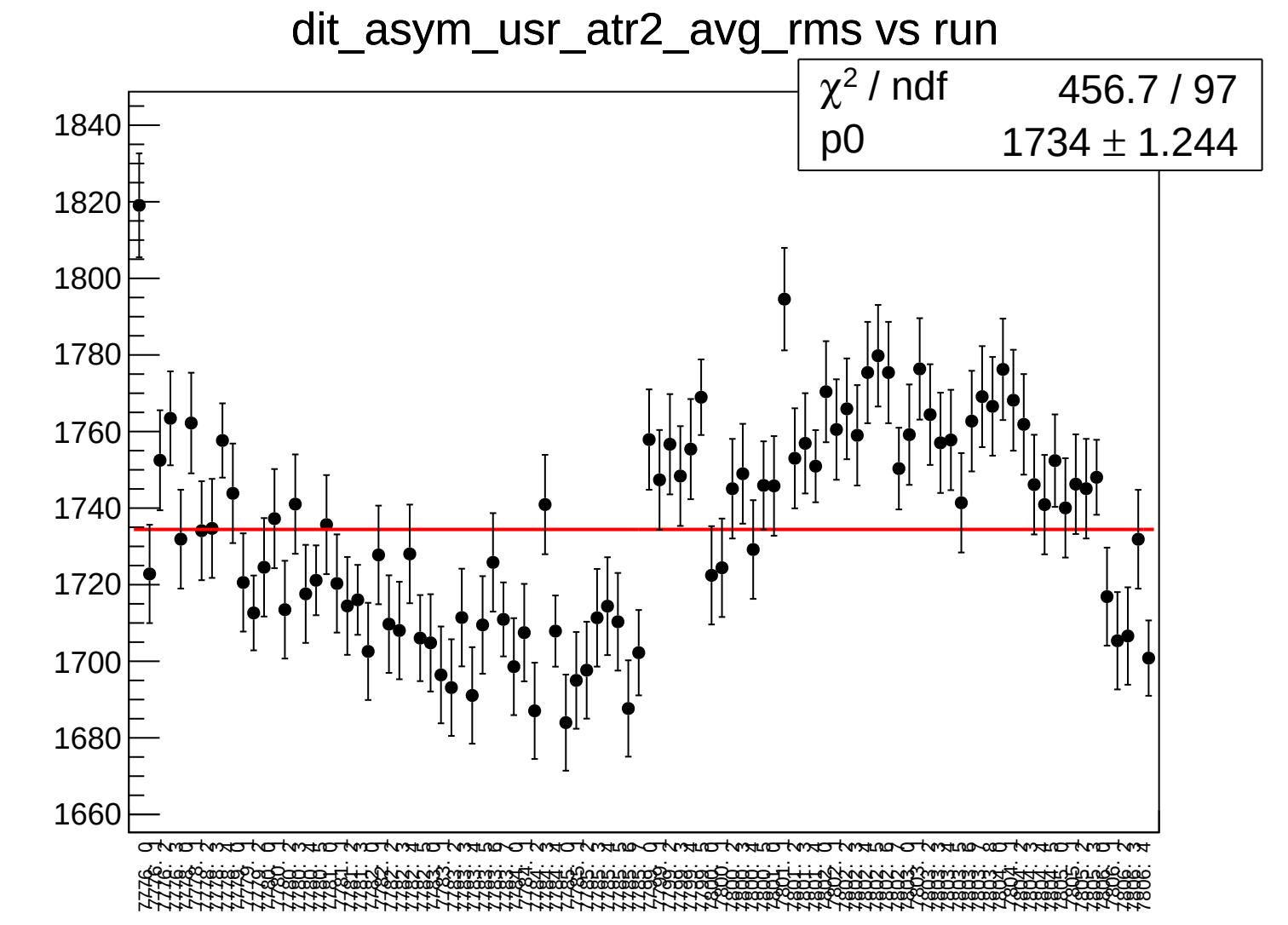

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.01 / 97
p0 6605 ± 8100
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 636.7
Std Dev 0
2
1
0
−1
−2
−3

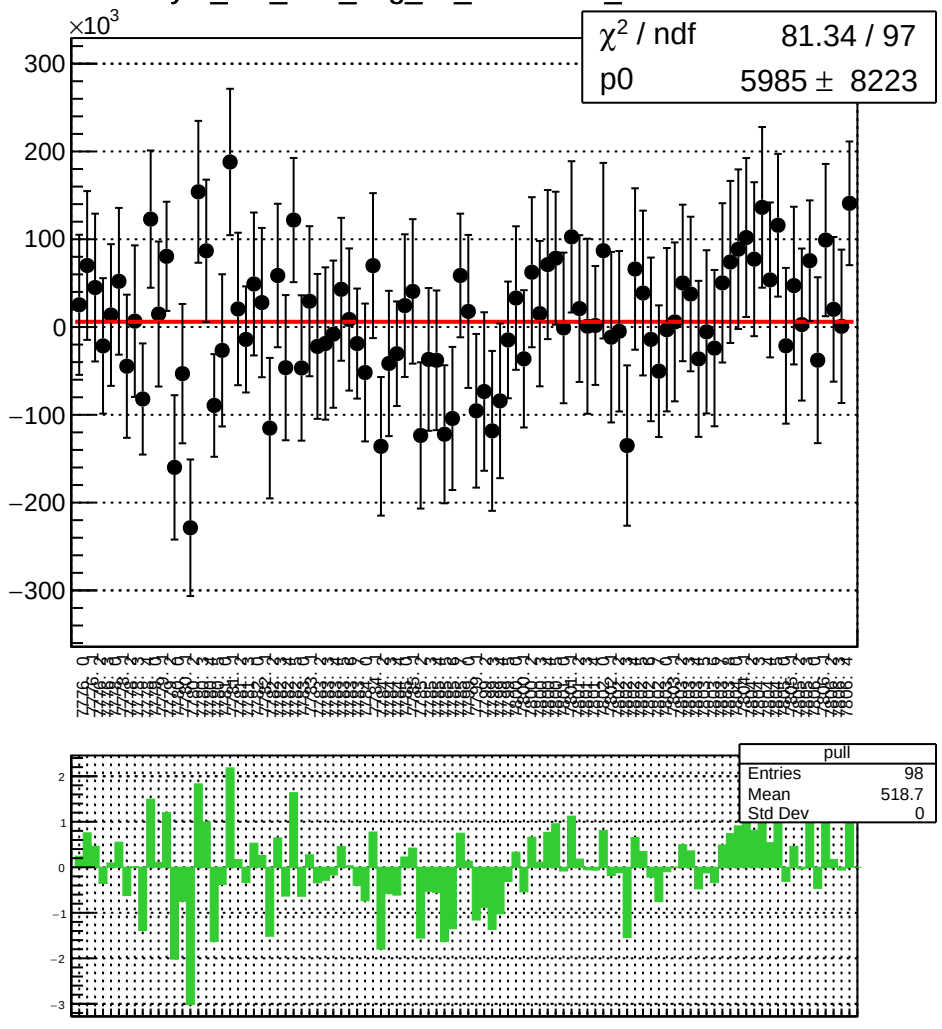

pull1D
Entries 98
Mean 0.008167
Std Dev 0.9092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

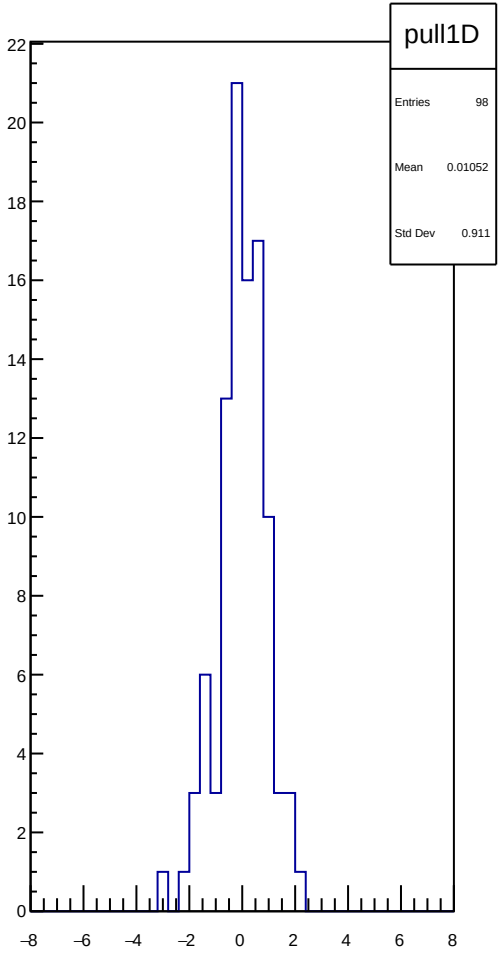

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4191 / 97
p0 7975 ± 5.728
9000
8500
8000
7500
7000

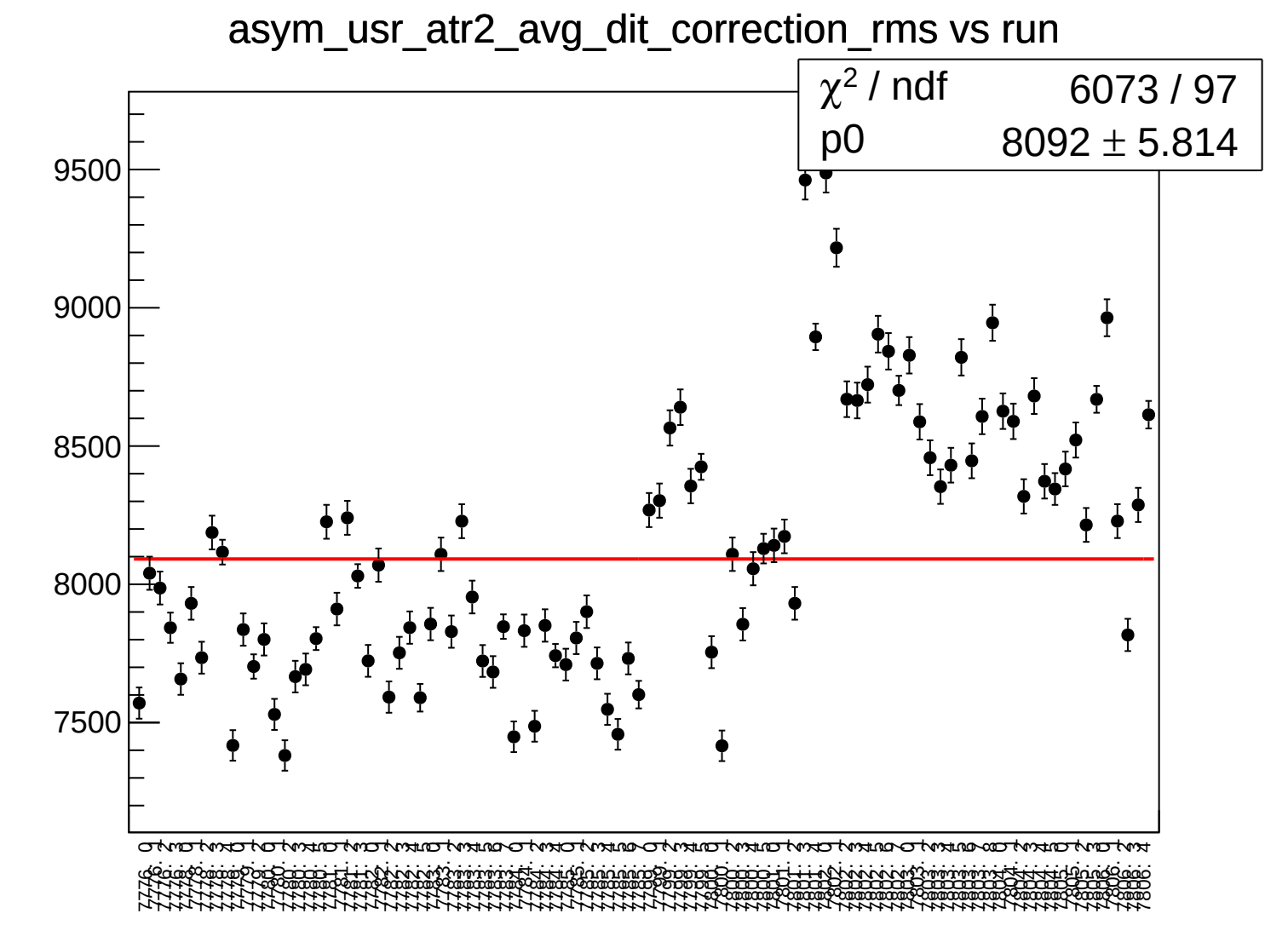

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 83.05 / 97
p0 1392 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −13.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

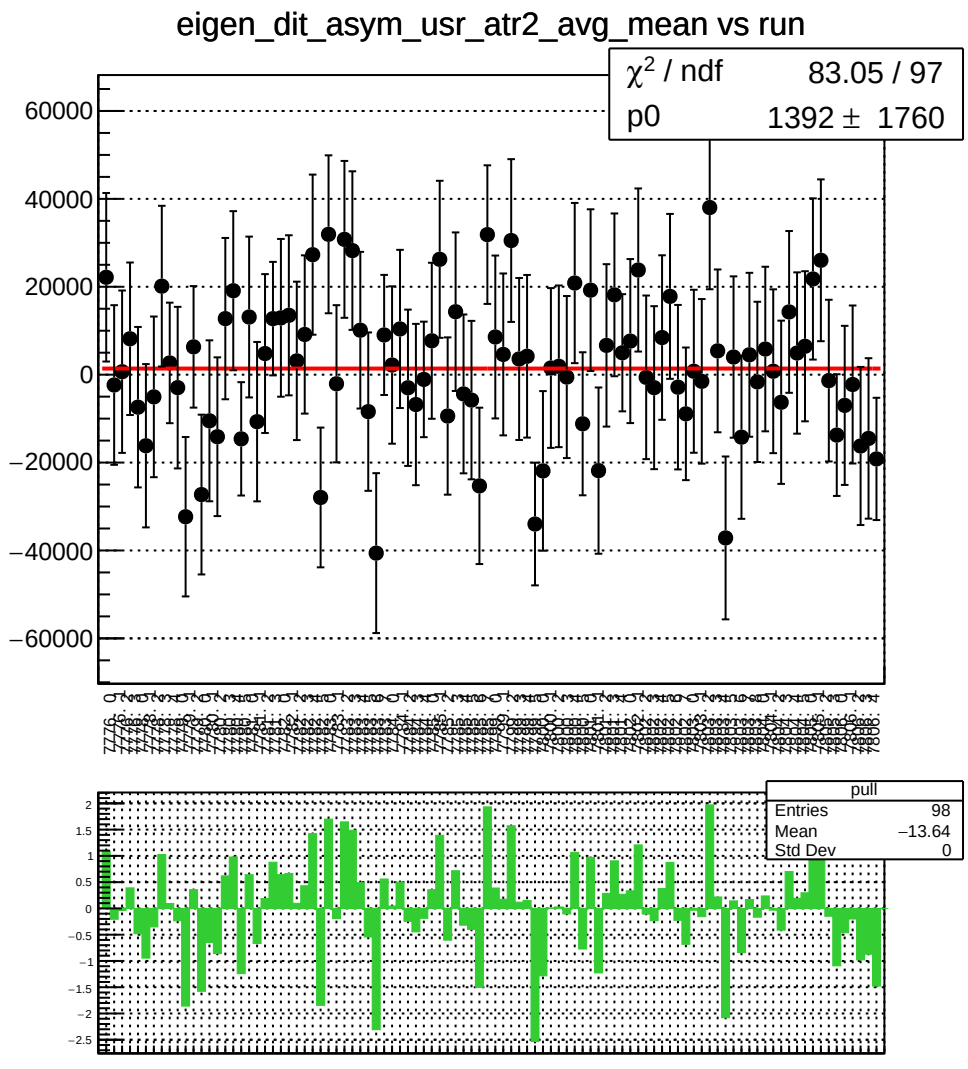

pull1D
Entries 98
Mean 0.01653
Std Dev 0.9204
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

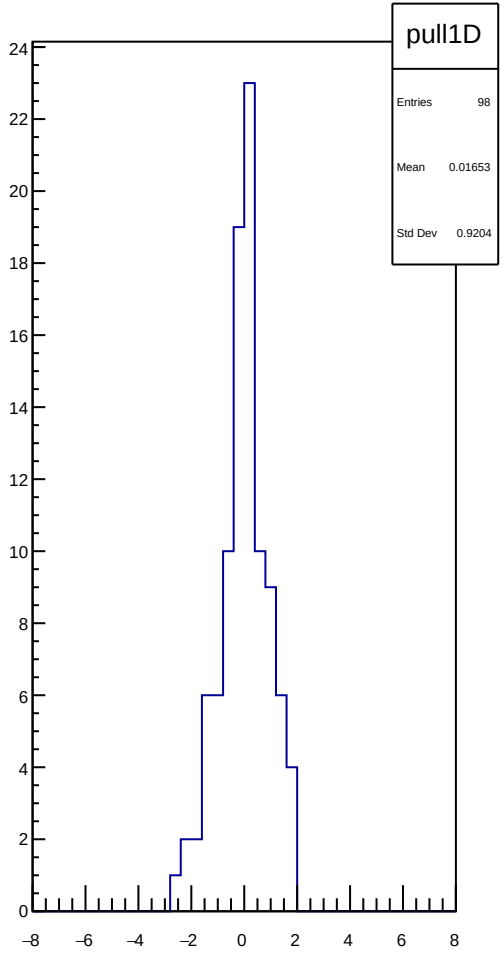

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 456.7 / 97
p0 1734 ± 1.244
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

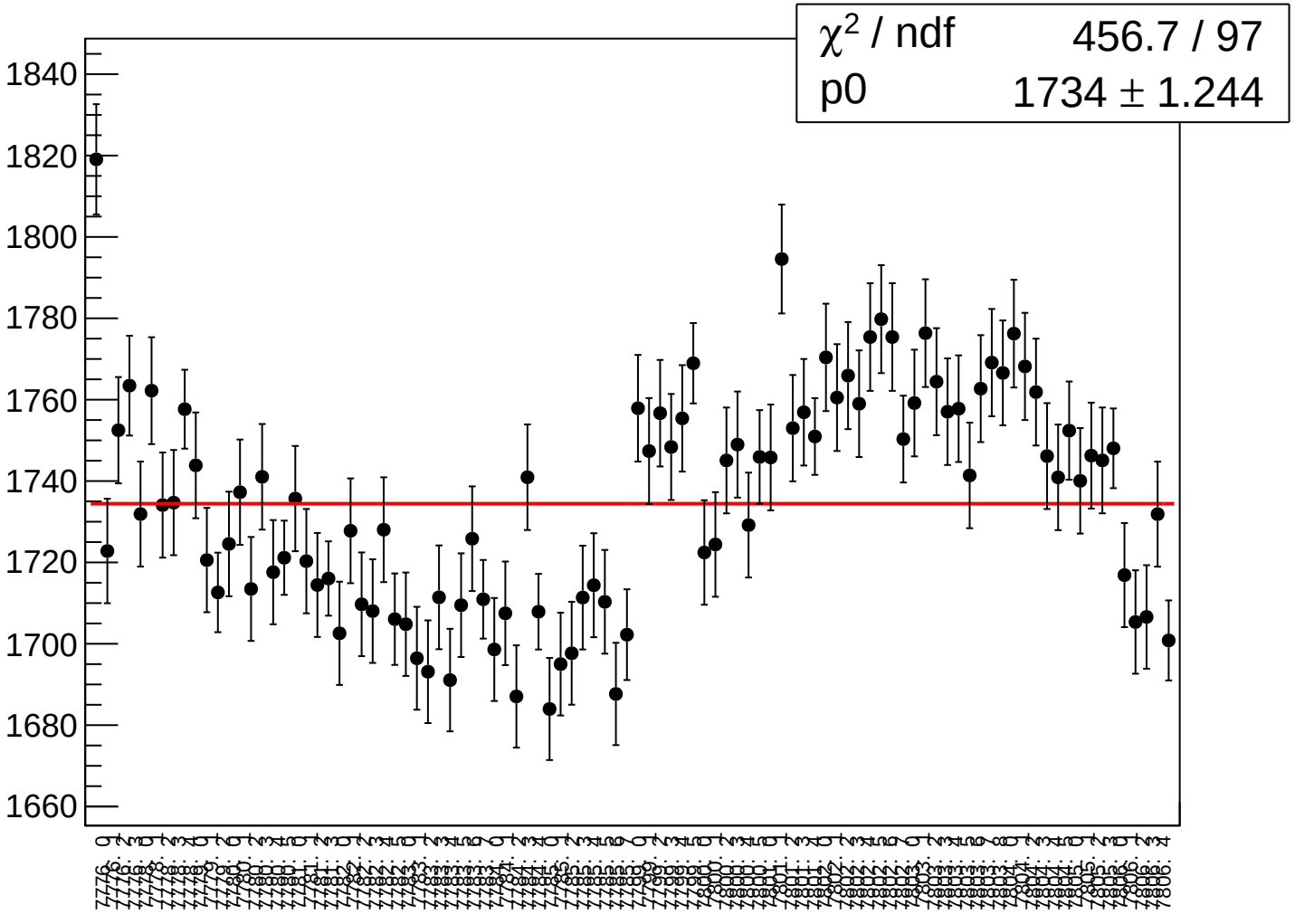

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.34 / 97
p0 5985 ± 8223
pull
Entries 98
Mean 518.7
Std Dev 0

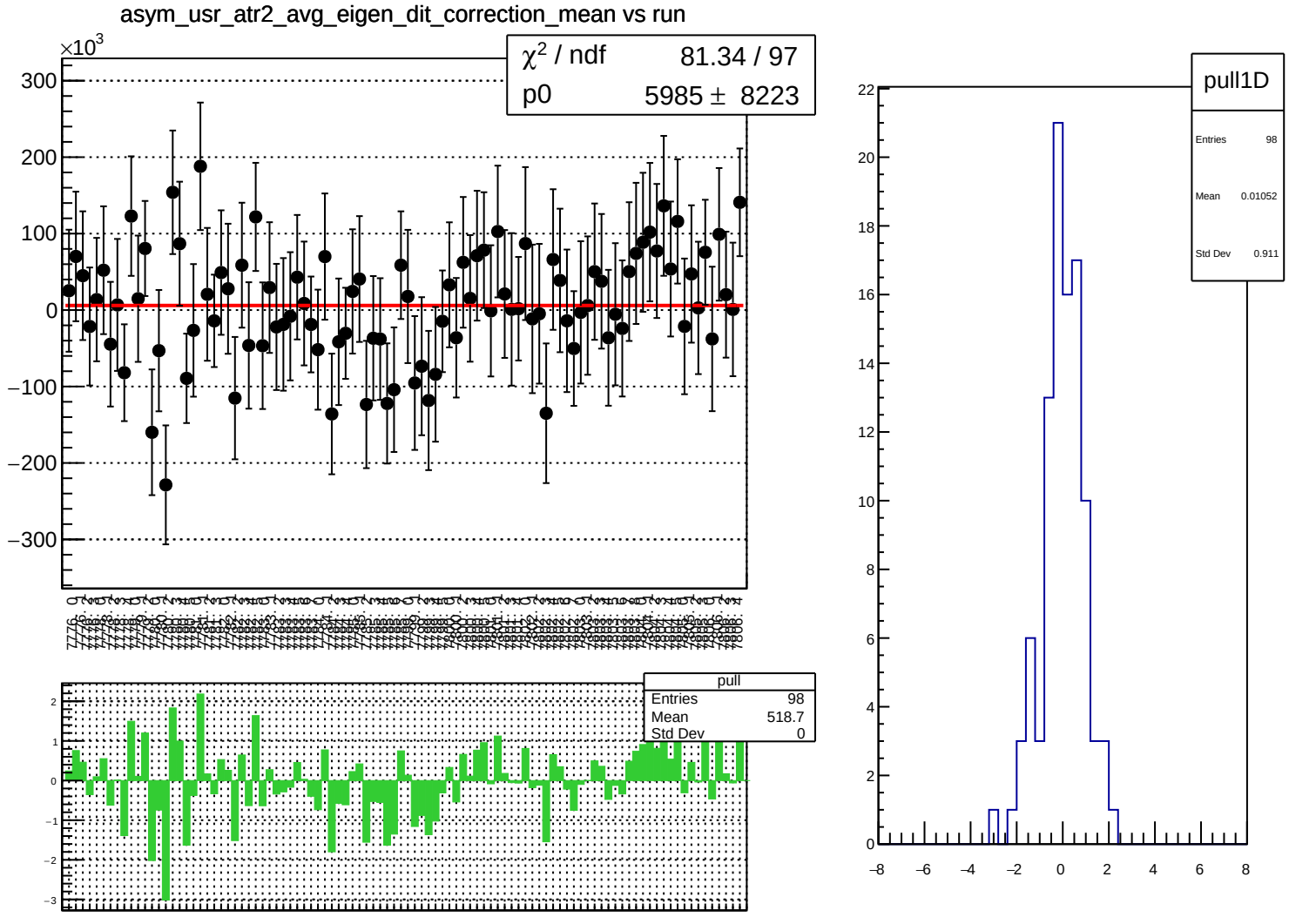

pull1D
Entries 98
Mean 0.01052
Std Dev 0.911

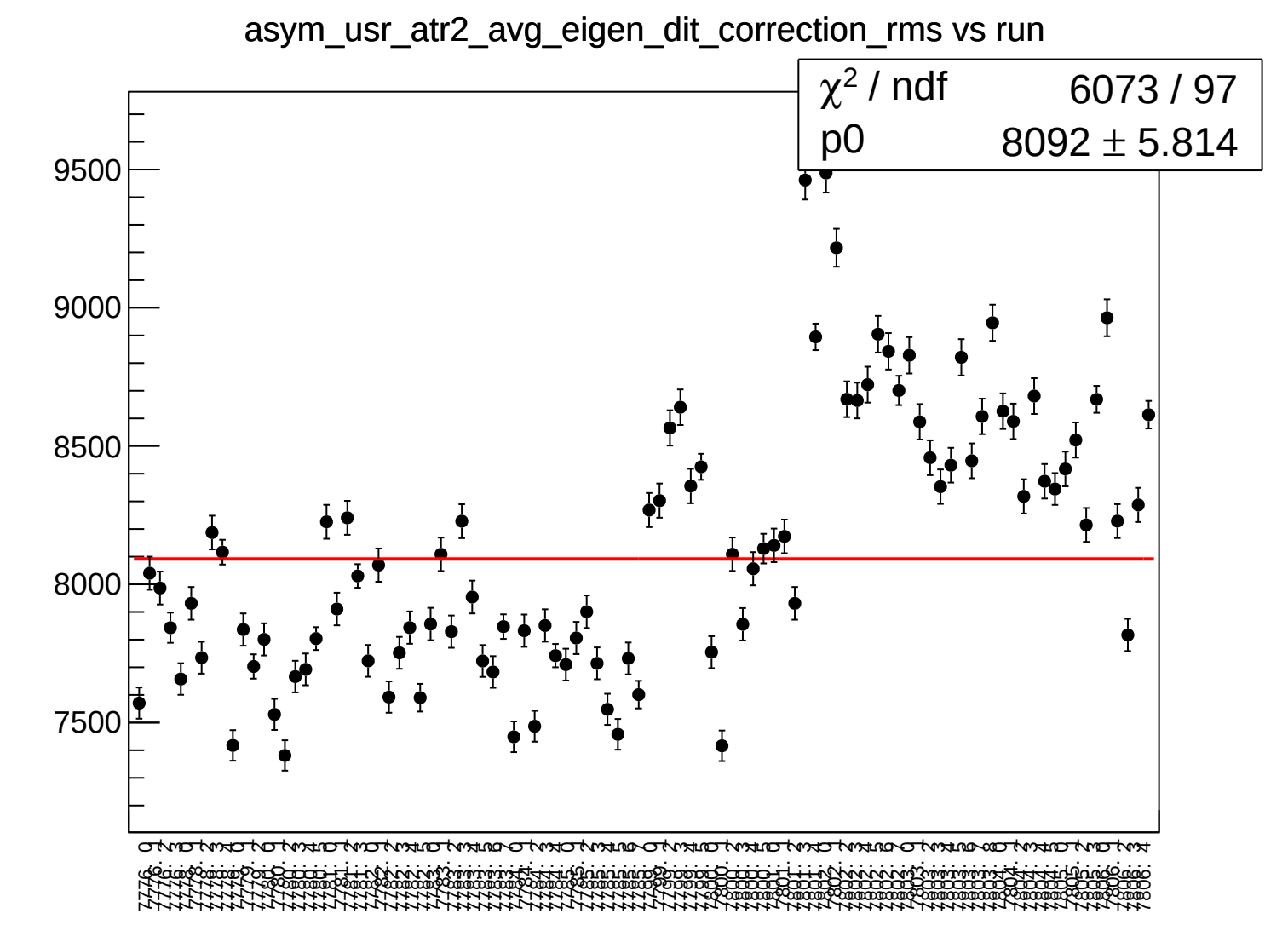

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 6073 / 97
p0 8092 ± 5.814
9500
9000
8500
8000
7500

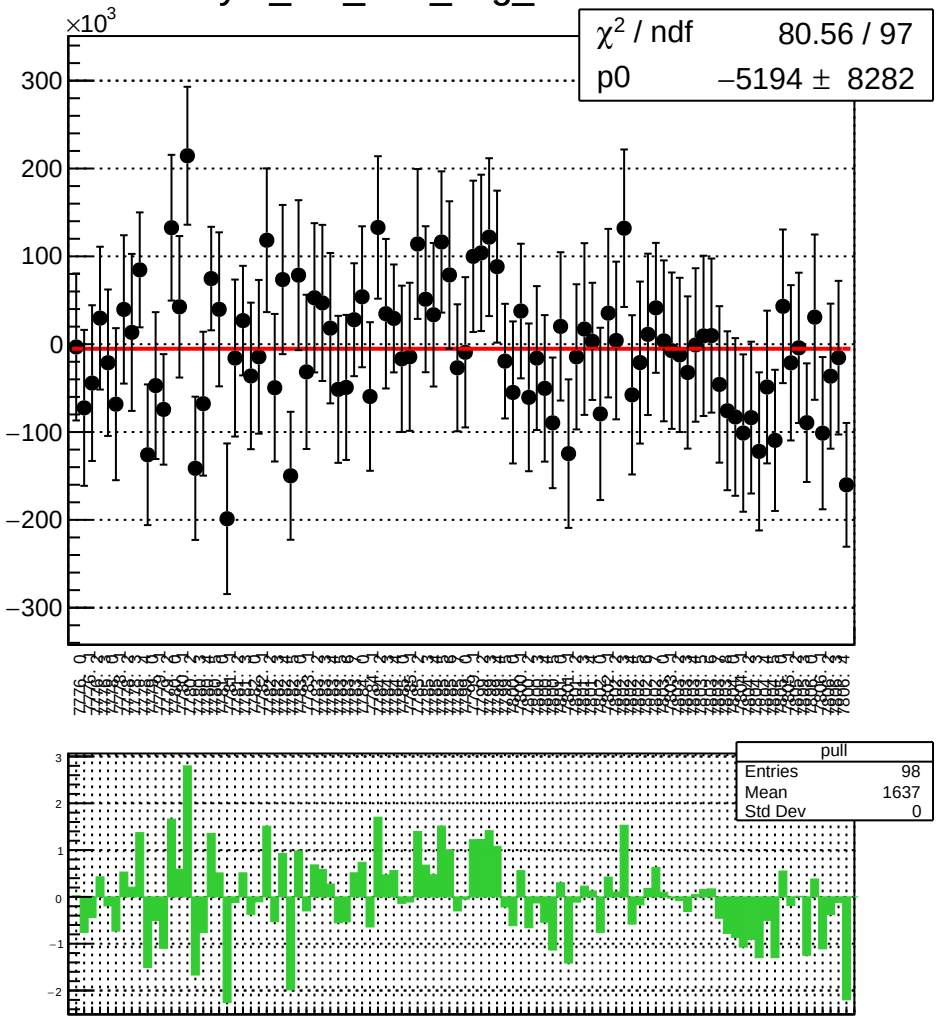

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 83.05 / 97
p0 1392 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −13.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

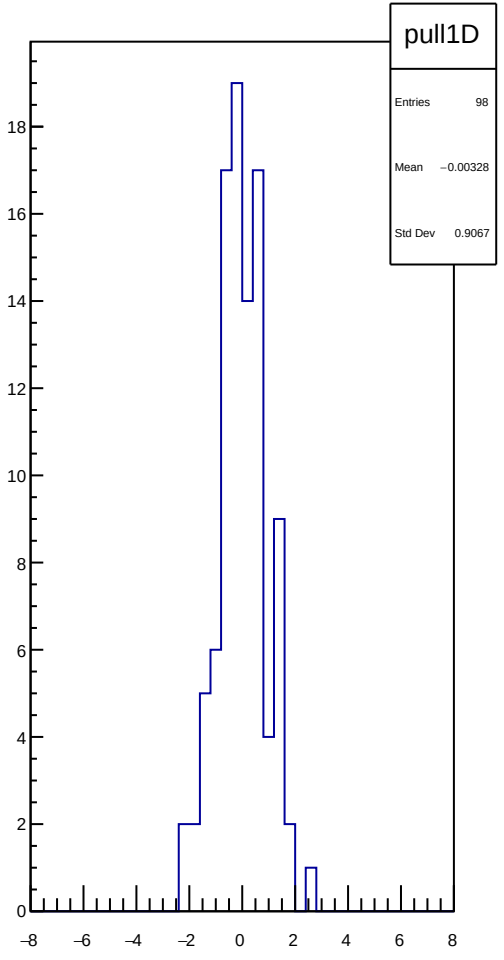

pull1D
Entries 98
Mean 0.01653
Std Dev 0.9204
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

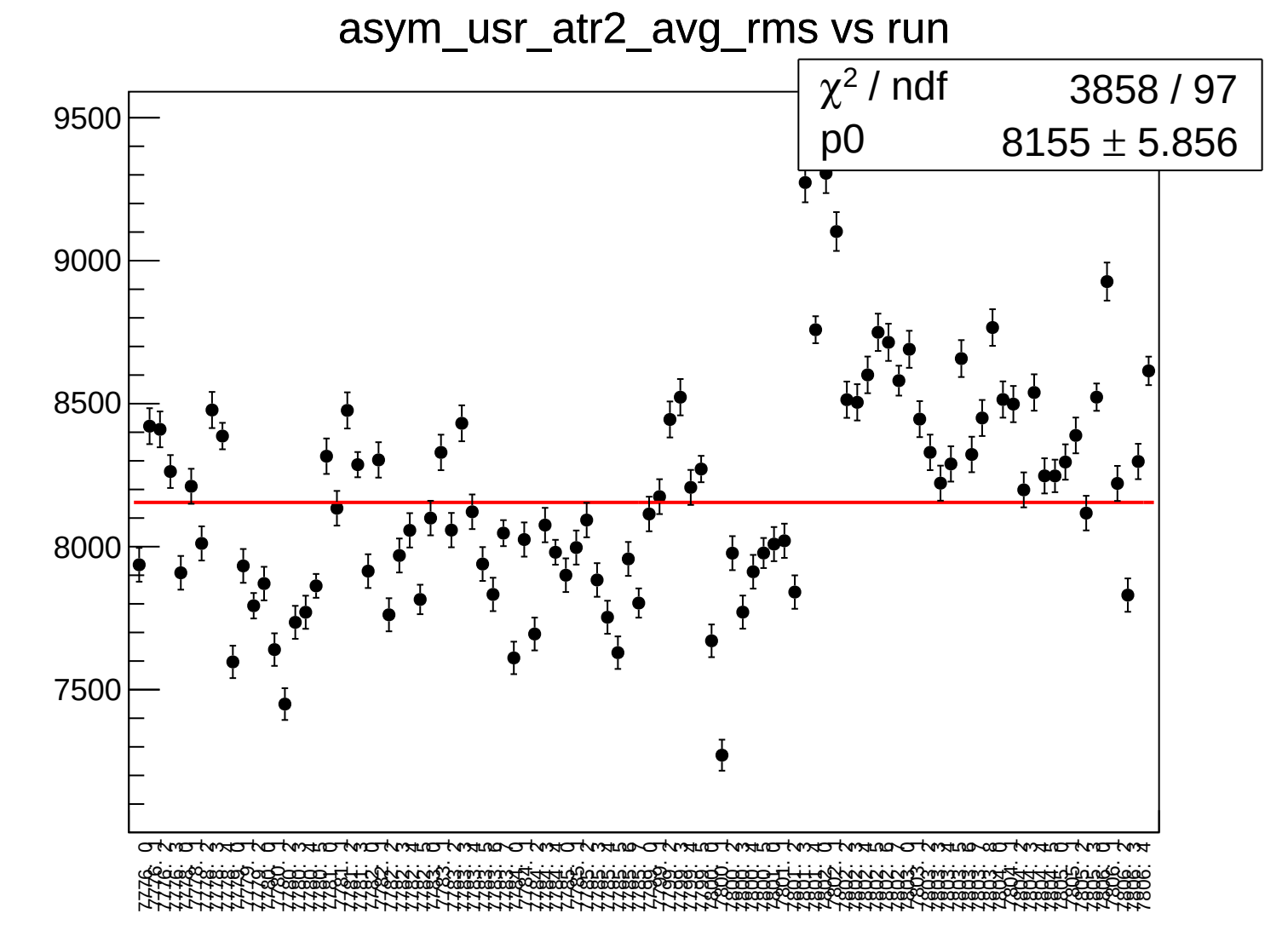

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 456.7 / 97
p0 1734 ± 1.244
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

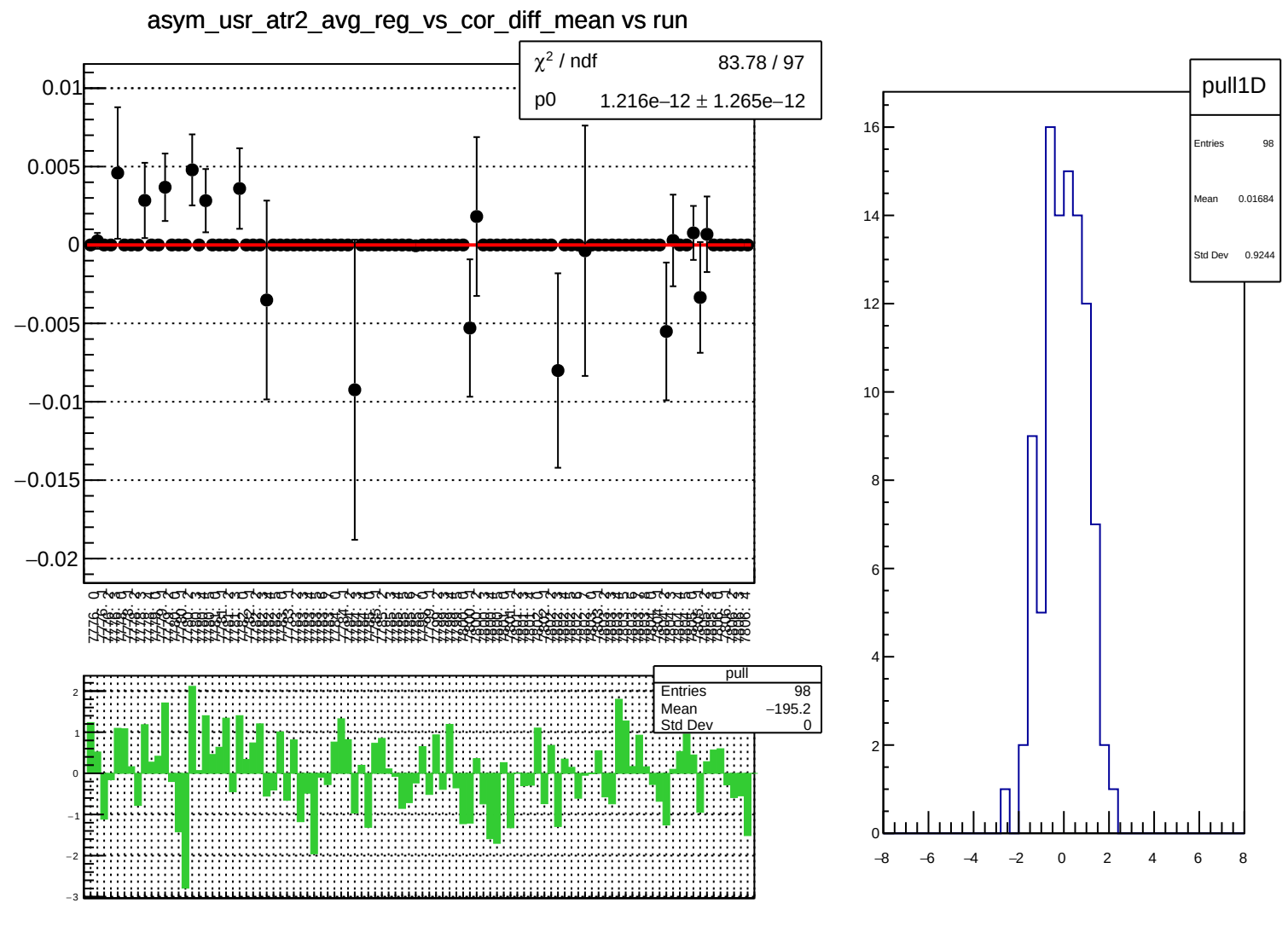

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.34 / 97
p0 5985 ± 8223
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 518.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.01052
Std Dev 0.911
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

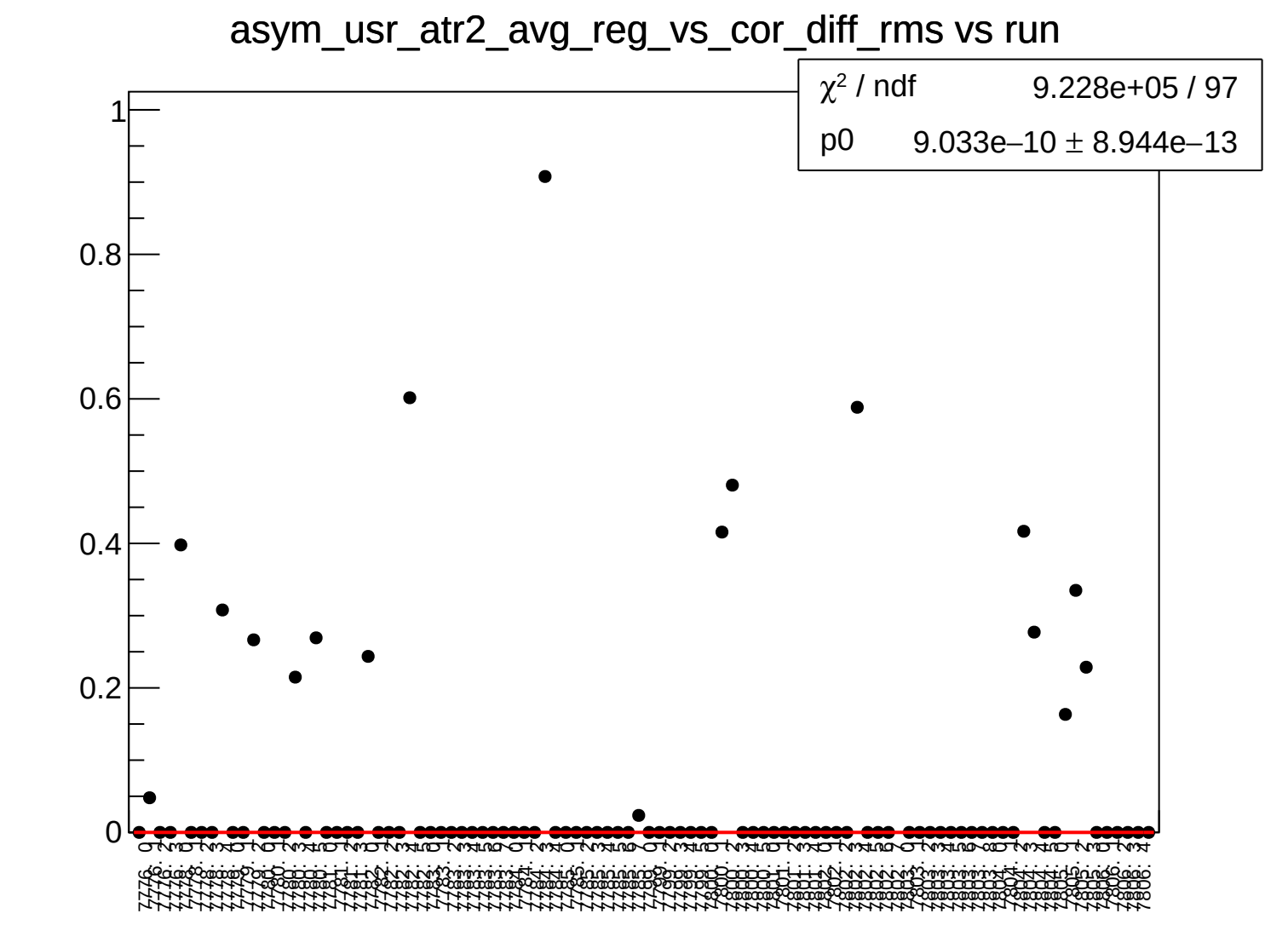

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6073 / 97
p0 8092 ± 5.814
9500
9000
8500
8000
7500

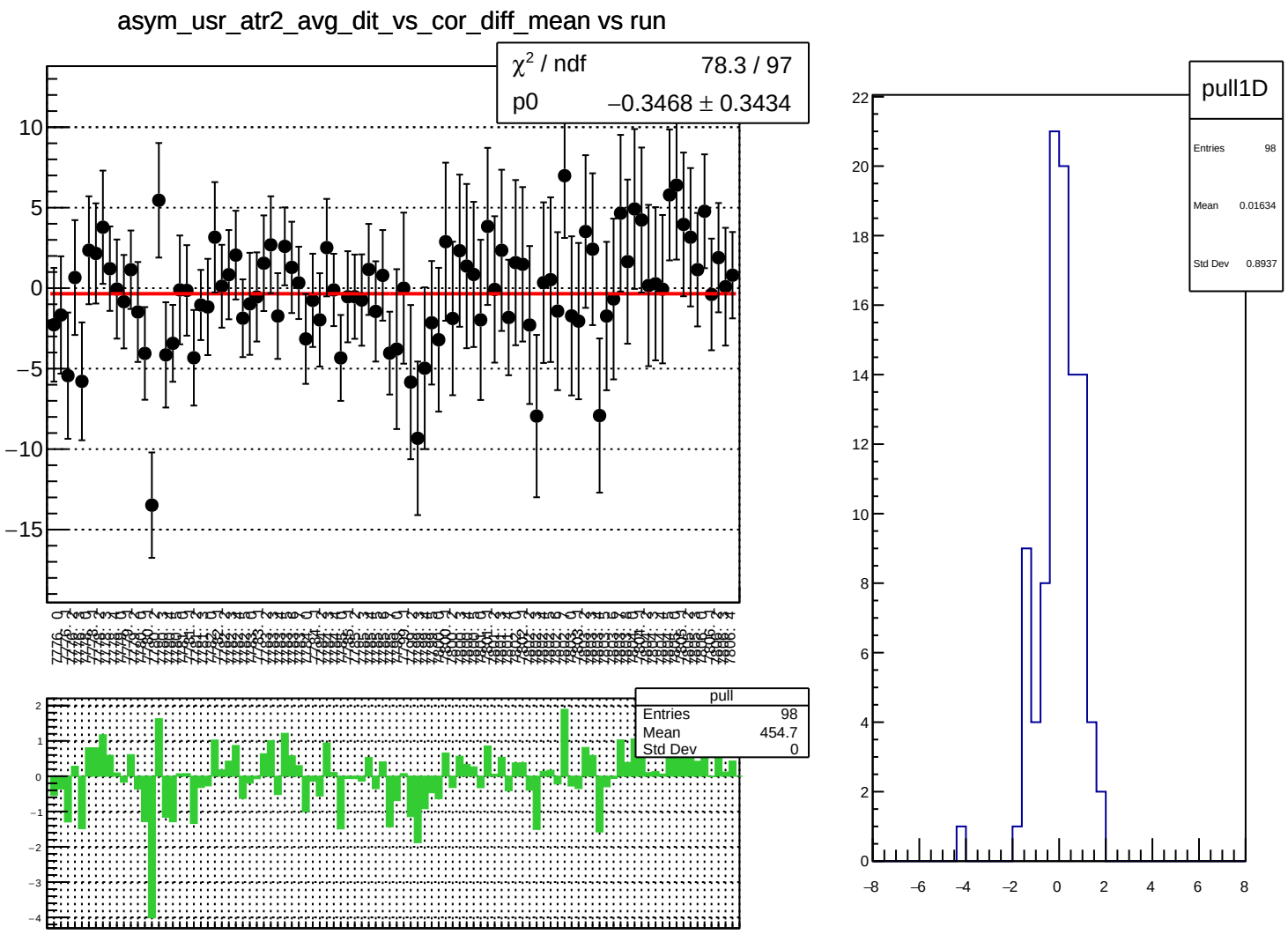

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 80.56 / 97
p0 −5194 ± 8282
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 1637
Std Dev 0
3
2
1
0
−1
−2

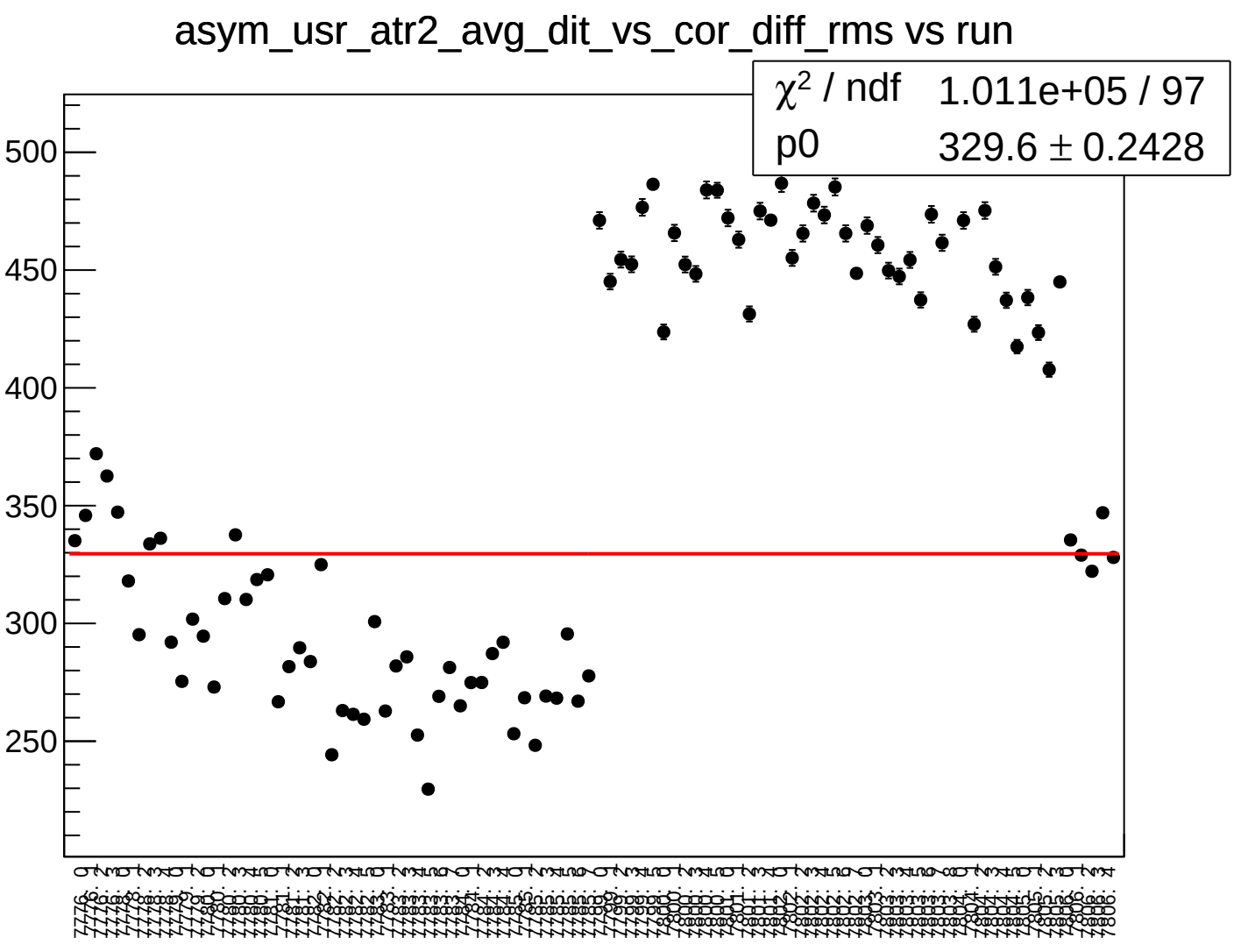

pull1D
Entries 98
Mean −0.00328
Std Dev 0.9067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

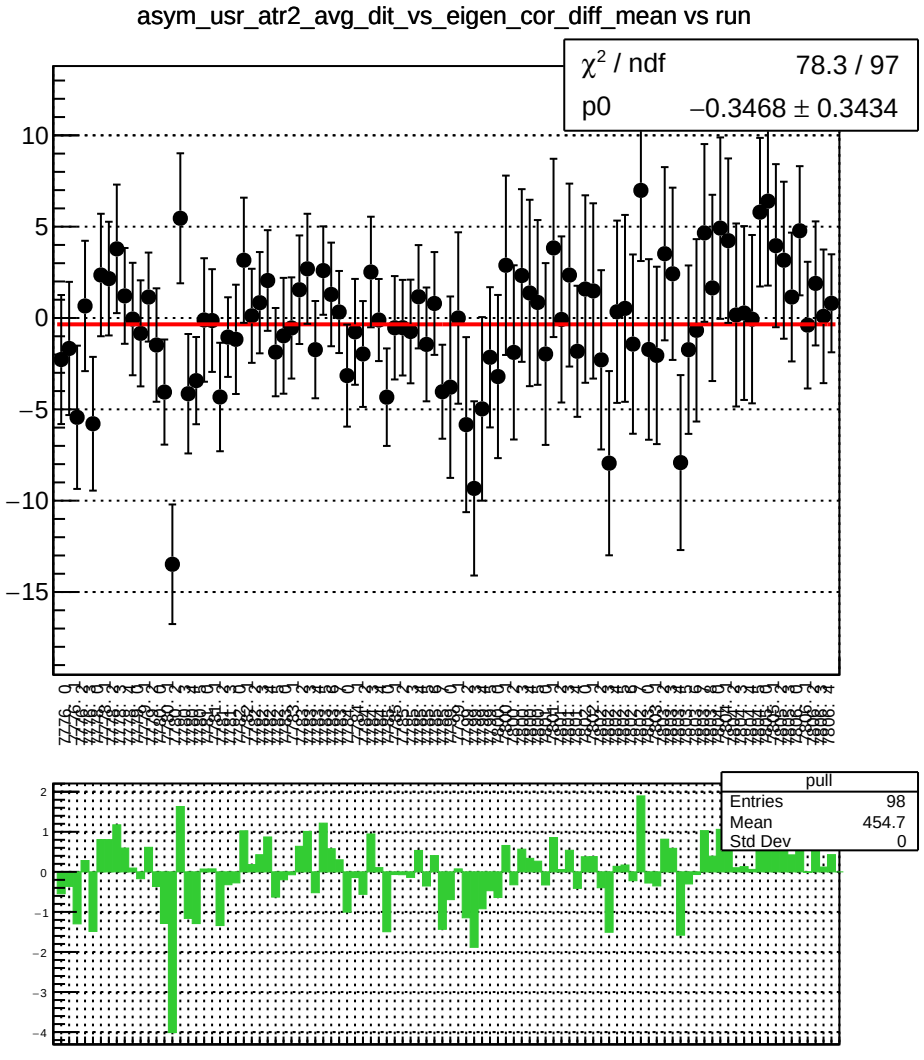

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 3858 / 97
p0 8155 ± 5.856
9500
9000
8500
8000
7500

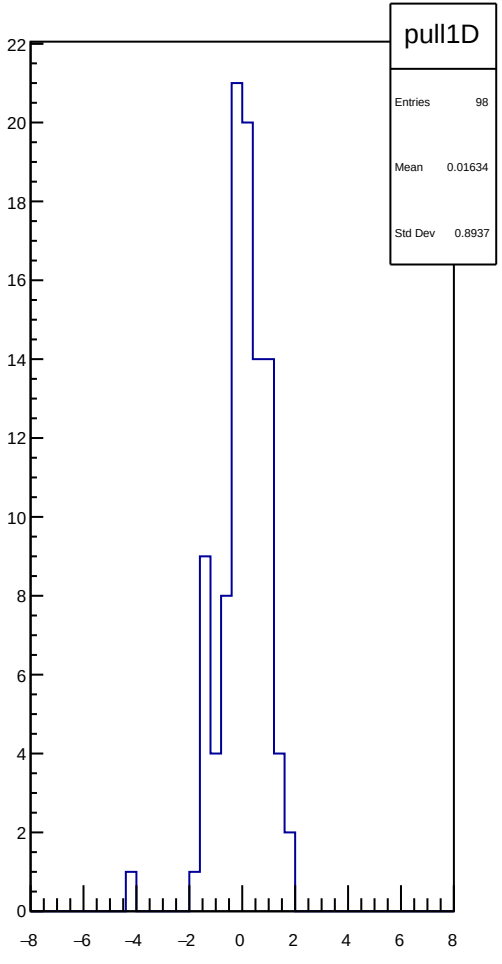

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.78 / 97
p0 1.216e−12 ± 1.265e−12
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 98
Mean −195.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.01684
Std Dev 0.9244
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

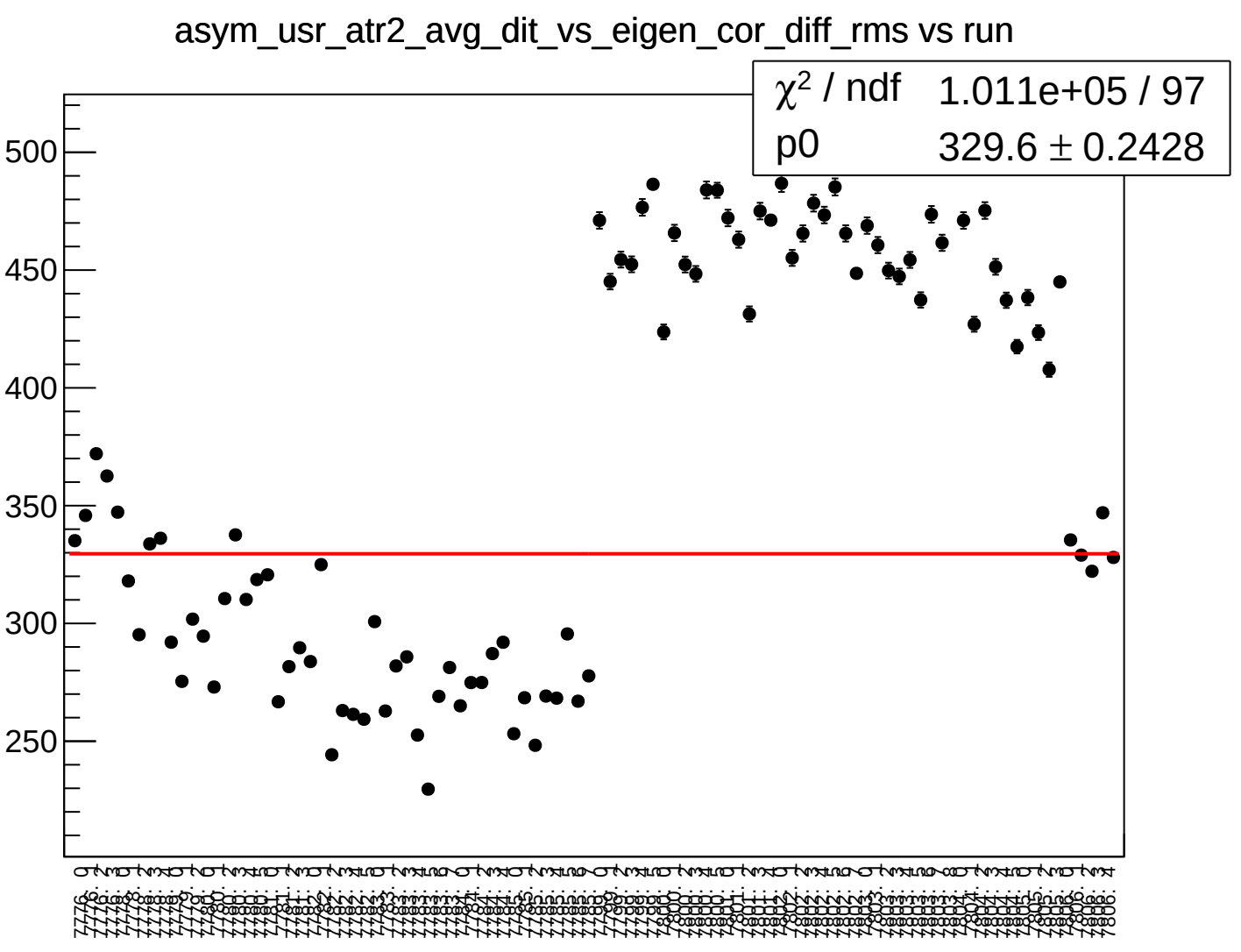

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.228e+05 / 97
p0 9.033e−10 ± 8.944e−13
1
0.8
0.6
0.4
0.2
0

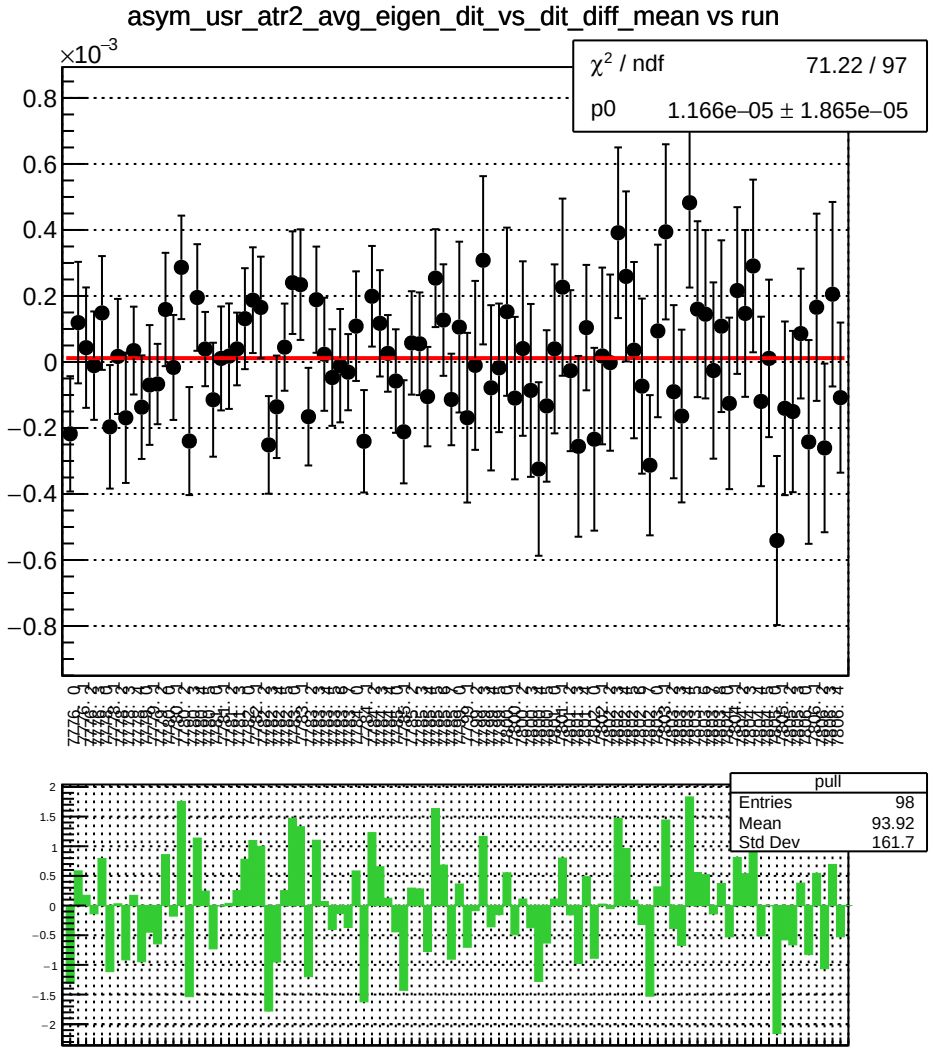

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.3 / 97
p0 −0.3468 ± 0.3434
pull
Entries 98
Mean 454.7
Std Dev 0
pull1D
Entries 98
Mean 0.01634
Std Dev 0.8937

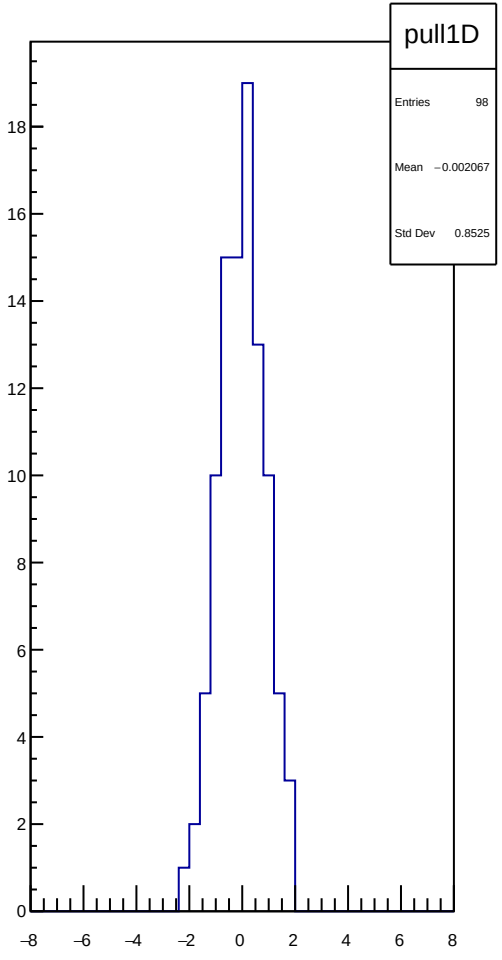

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.011e+05 / 97
p0 329.6 ± 0.2428
500
450
400
350
300
250

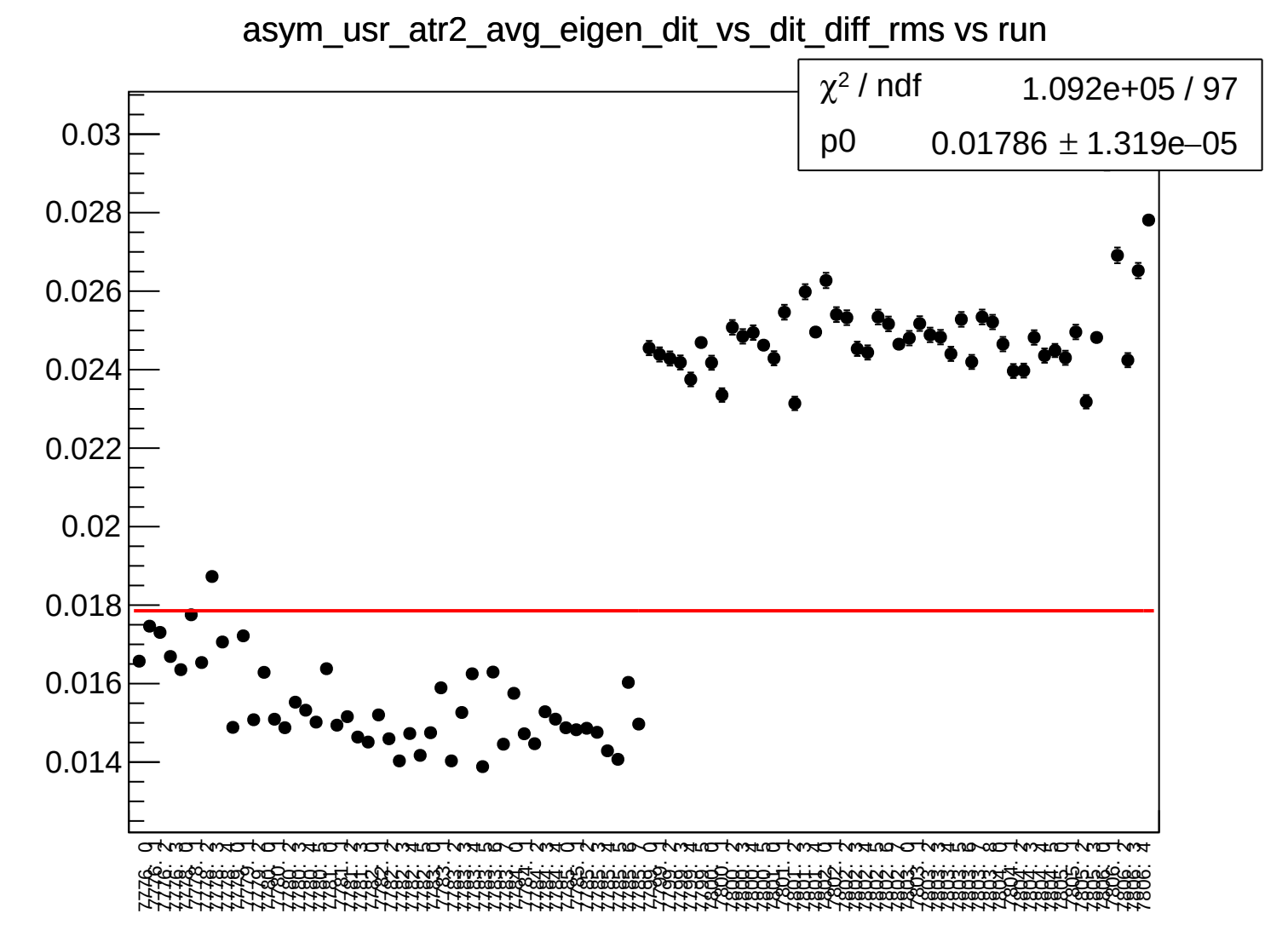

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.3 / 97
p0 −0.3468 ± 0.3434
pull
Entries 98
Mean 454.7
Std Dev 0

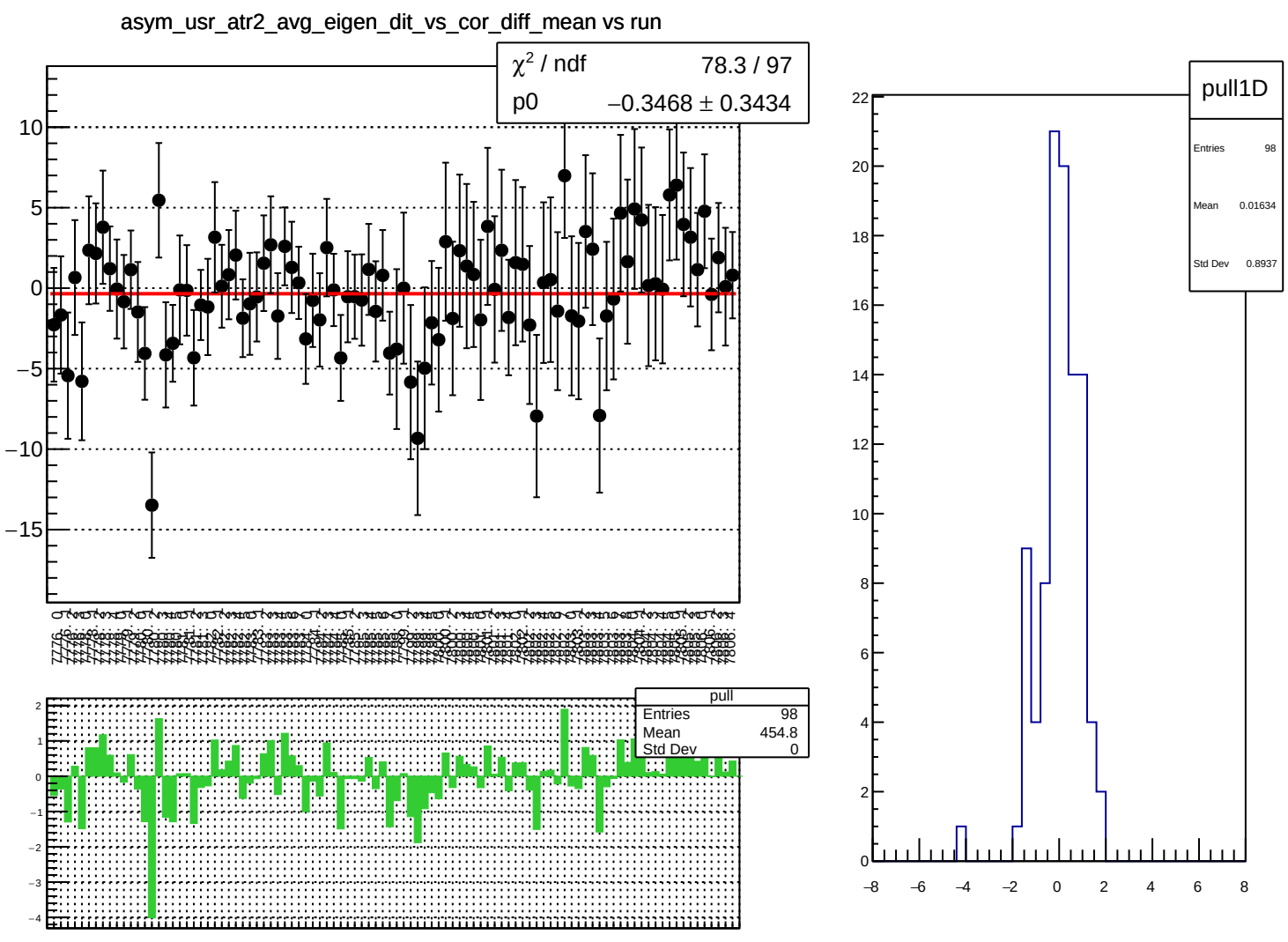

pull1D
Entries 98
Mean 0.01634
Std Dev 0.8937

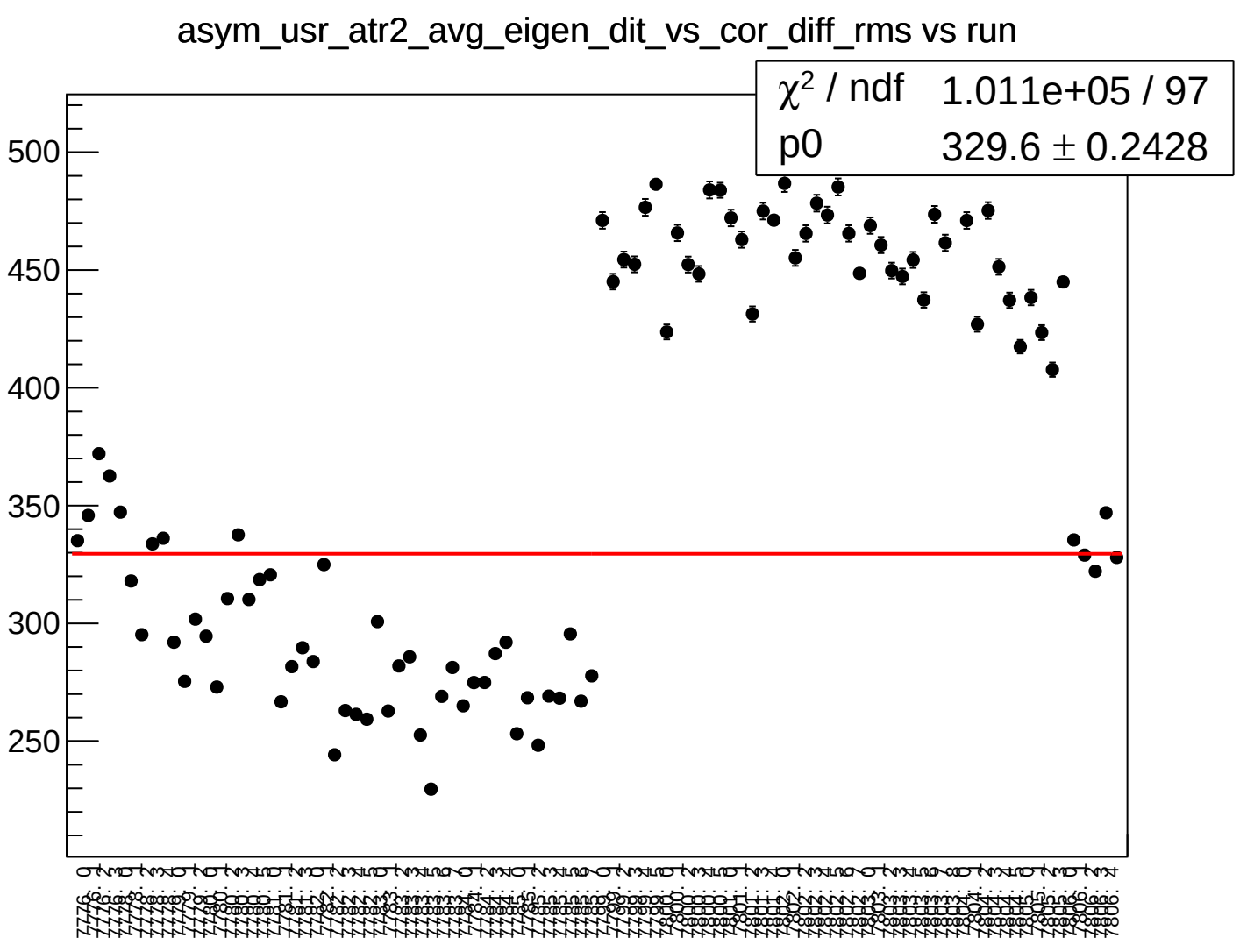

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.011e+05 / 97
p0 329.6 ± 0.2428
500
450
400
350
300
250

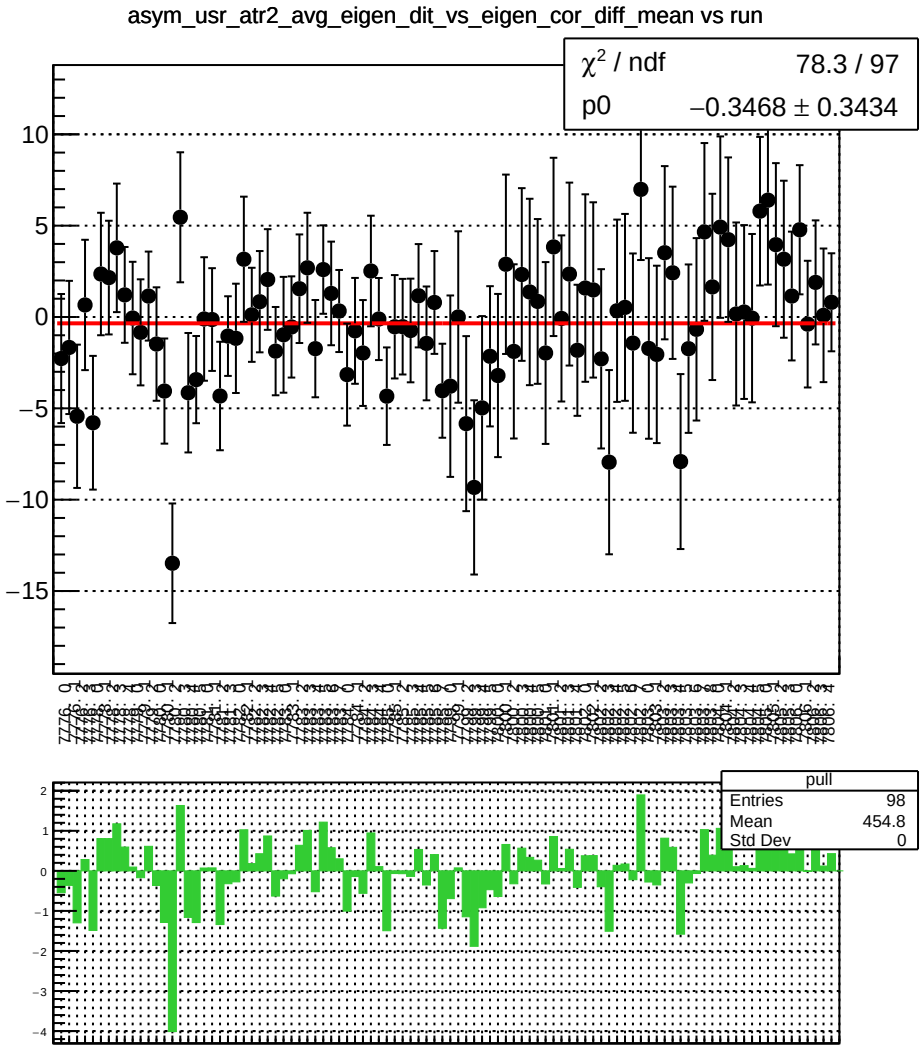

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.22 / 97
p0 1.166e−05 ± 1.865e−05
pull
Entries 98
Mean 93.92
Std Dev 161.7

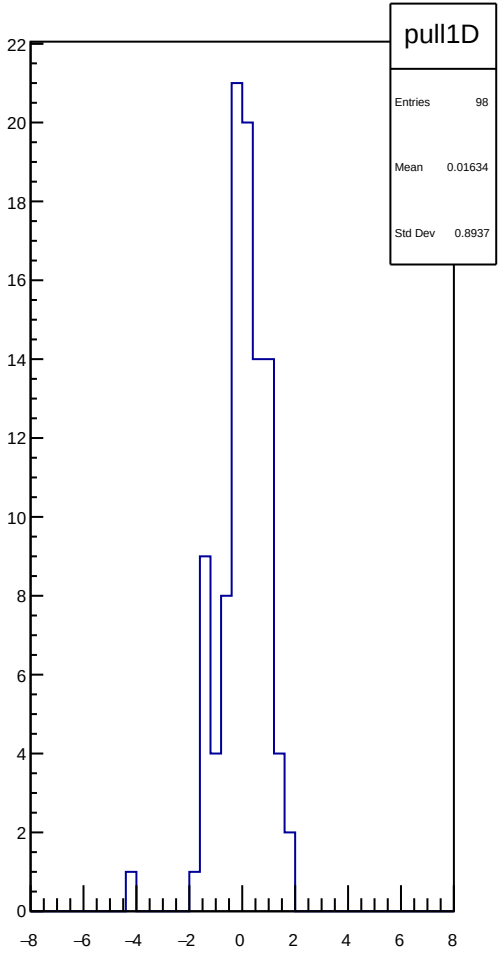

pull1D
Entries 98
Mean −0.002067
Std Dev 0.8525

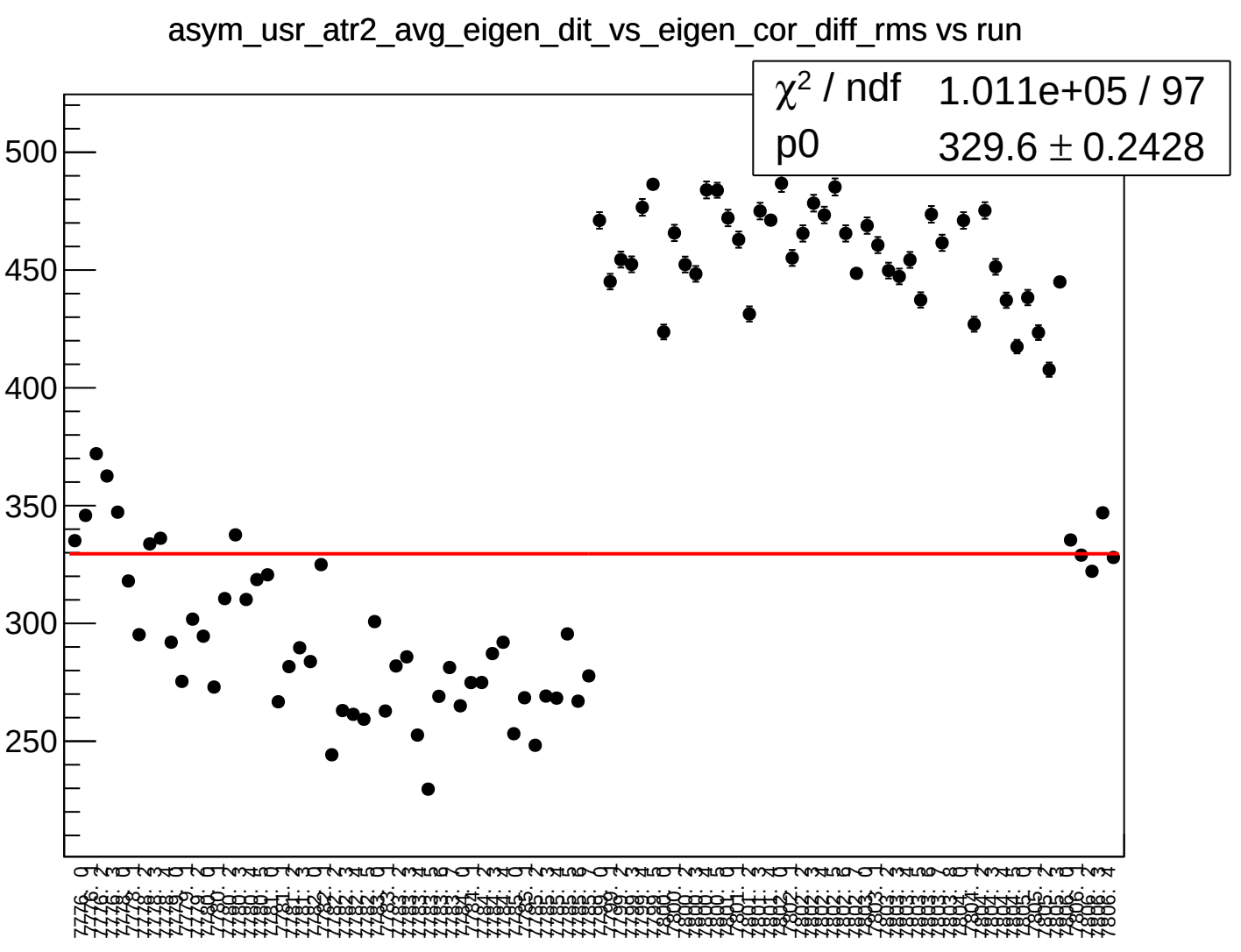

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.092e+05 / 97
p0 0.01786 ± 1.319e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

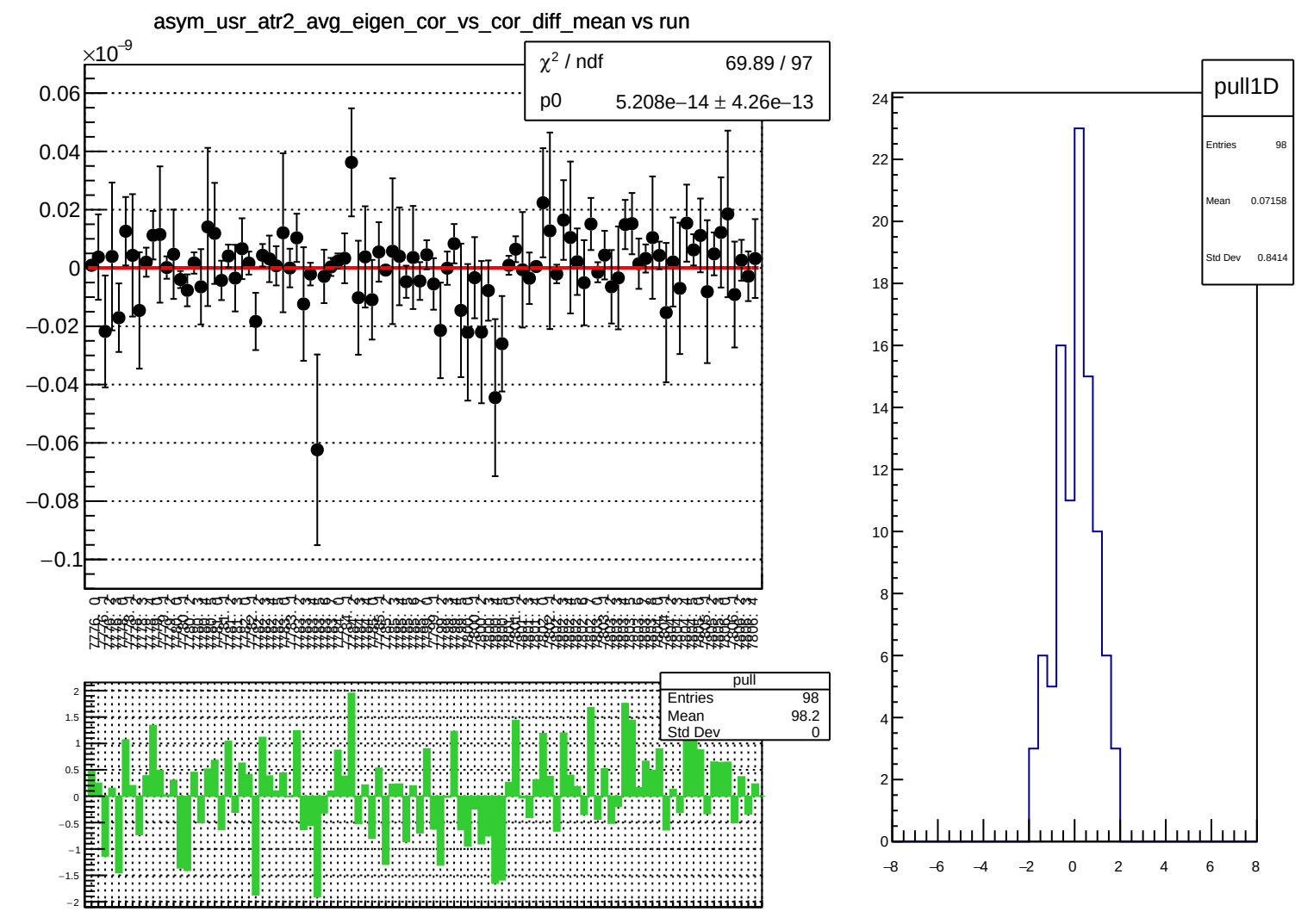

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.3 / 97
p0 −0.3468 ± 0.3434
pull
Entries 98
Mean 454.8
Std Dev 0
pull1D
Entries 98
Mean 0.01634
Std Dev 0.8937

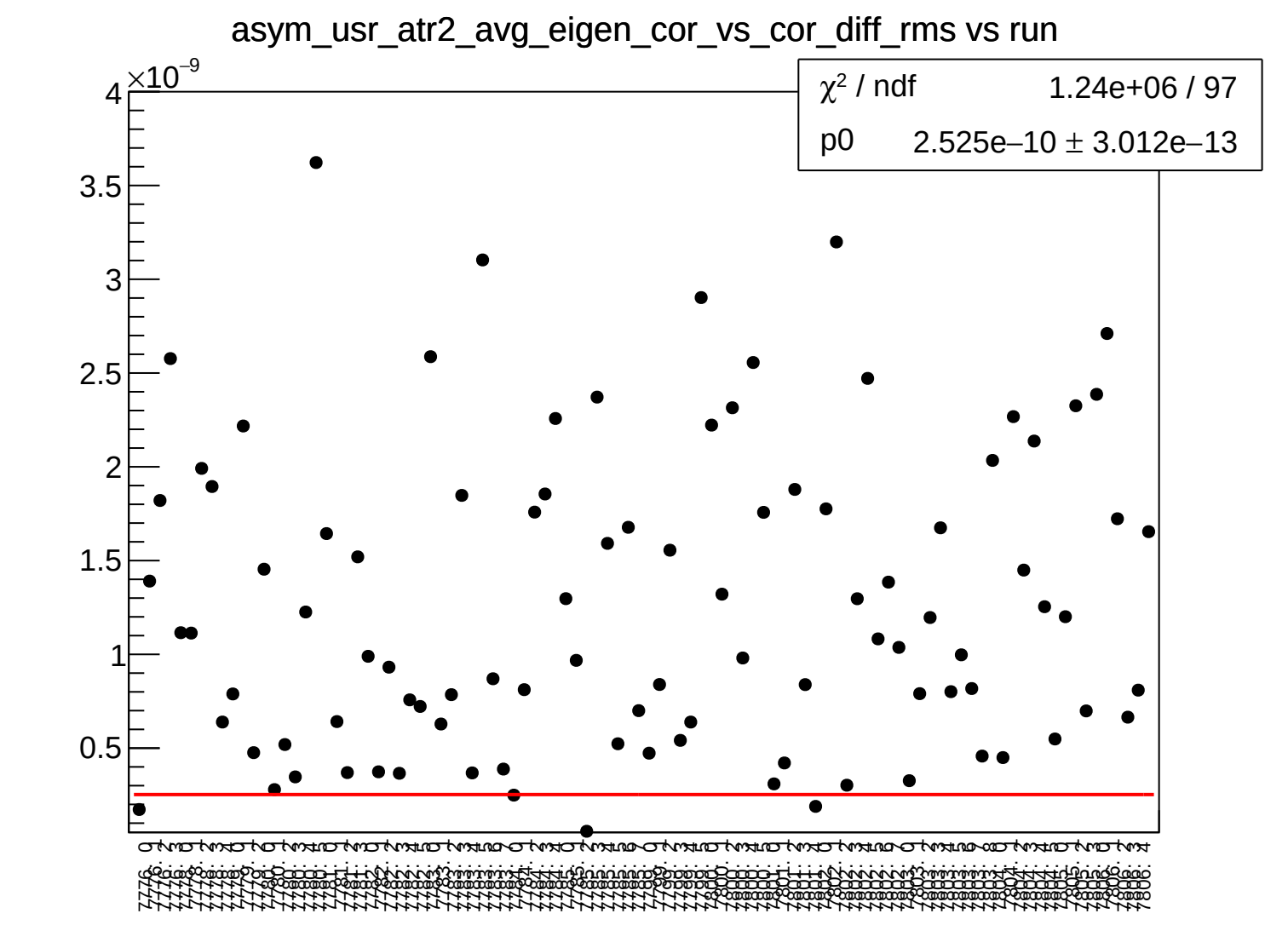

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.011e+05 / 97
p0 329.6 ± 0.2428
500
450
400
350
300
250

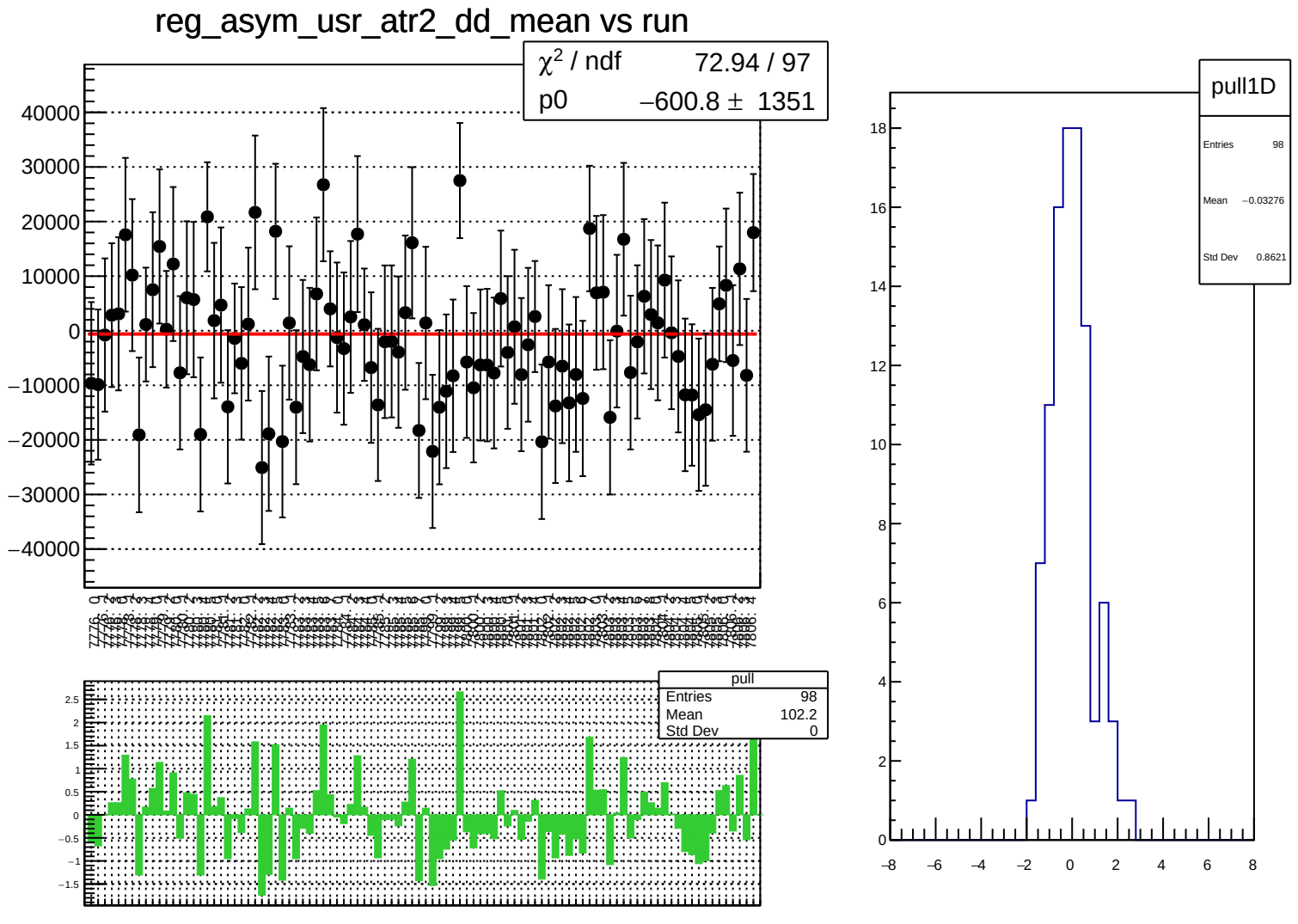

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.3 / 97
p0 −0.3468 ± 0.3434
pull
Entries 98
Mean 454.8
Std Dev 0

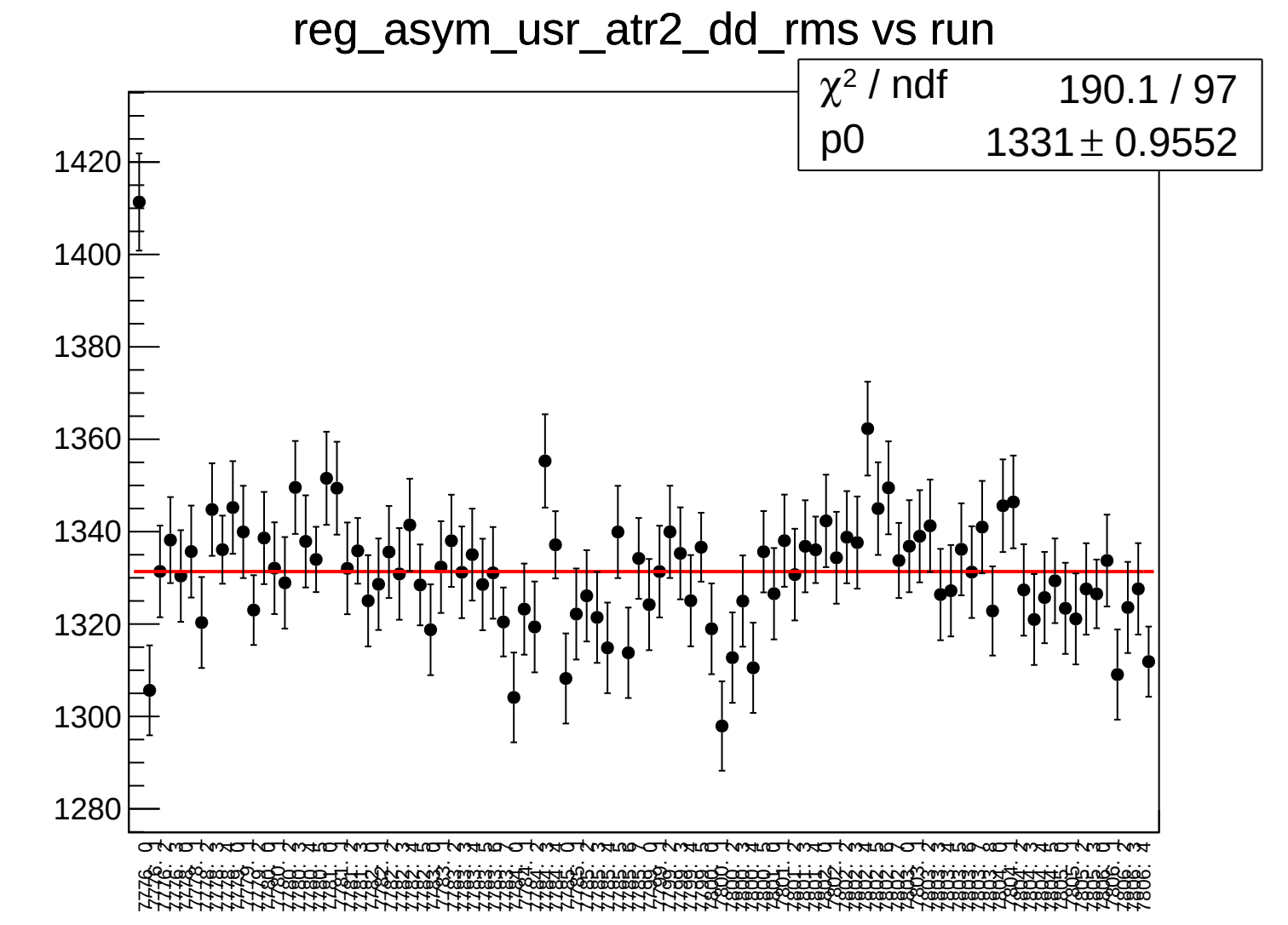

pull1D
Entries 98
Mean 0.01634
Std Dev 0.8937

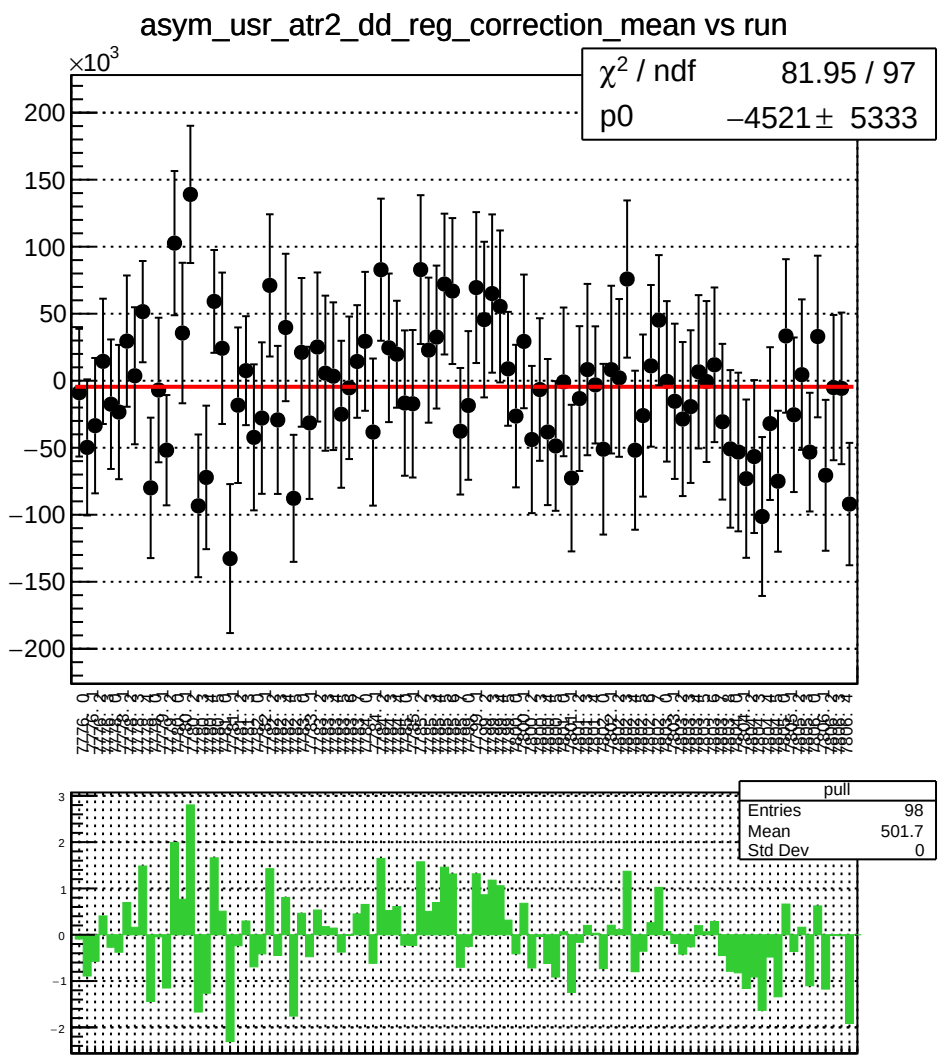

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.011e+05 / 97
p0 329.6 ± 0.2428
500
450
400
350
300
250

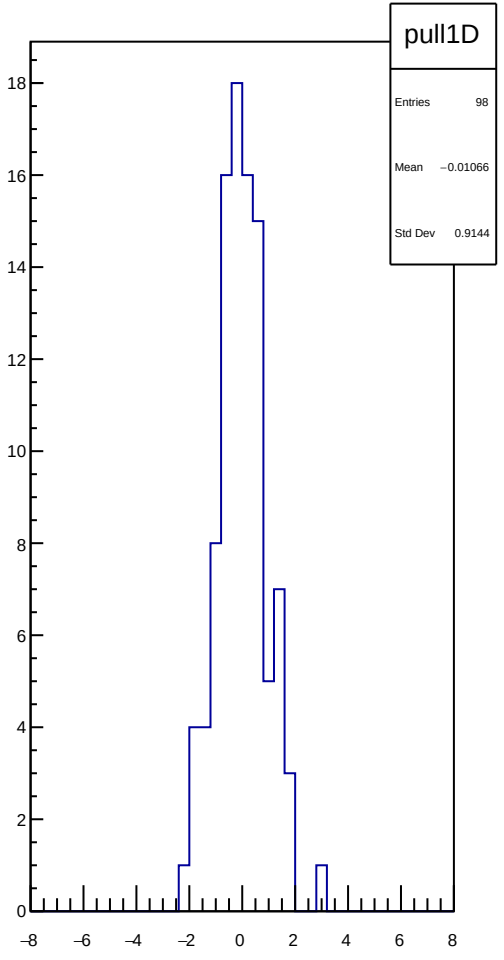

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 69.89 / 97
p0 5.208e−14 ± 4.26e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 98
Mean 98.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.07158
Std Dev 0.8414
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

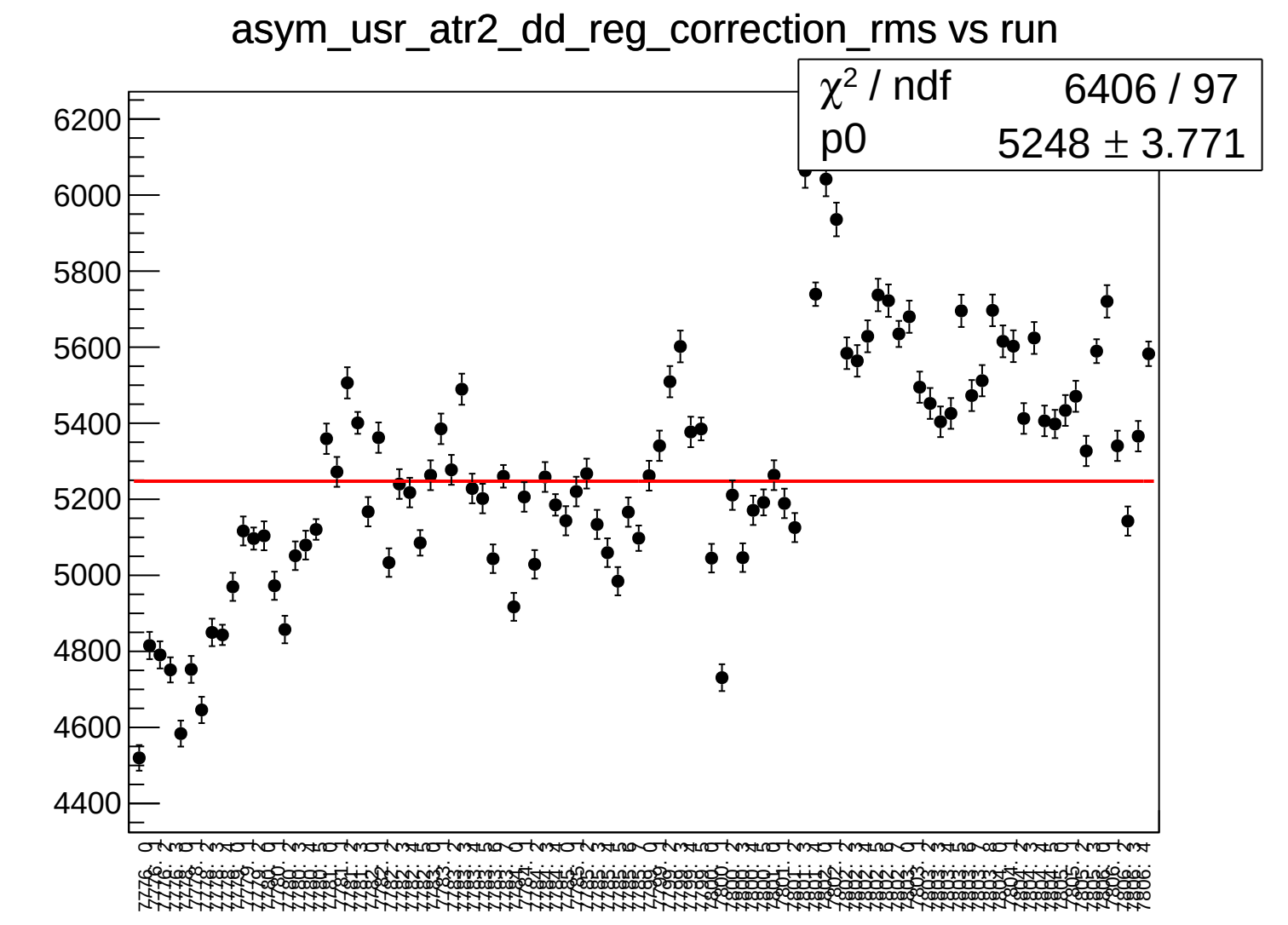

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
4
3.5
3
2.5
2
1.5
1
0.5
χ² / ndf 1.24e+06 / 97
p0 2.525e−10 ± 3.012e−13

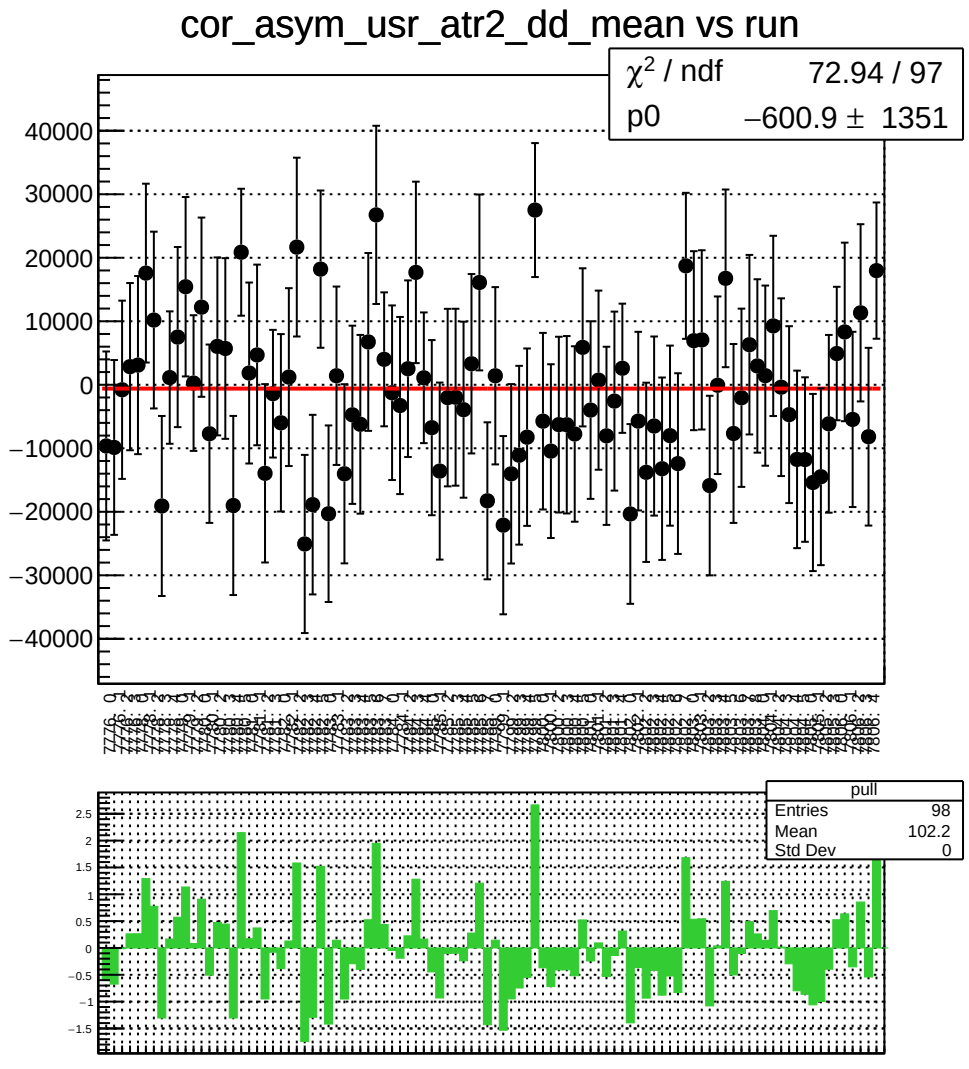

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 72.94 / 97
p0 −600.8 ± 1351
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 102.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean −0.03276
Std Dev 0.8621
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

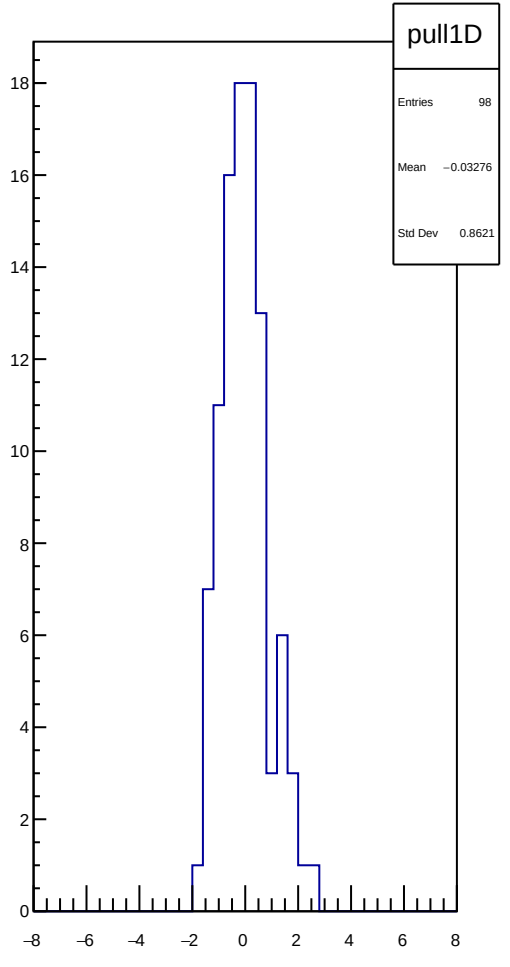

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 190.1 / 97
p0 1331 ± 0.9552
1420
1400
1380
1360
1340
1320
1300
1280

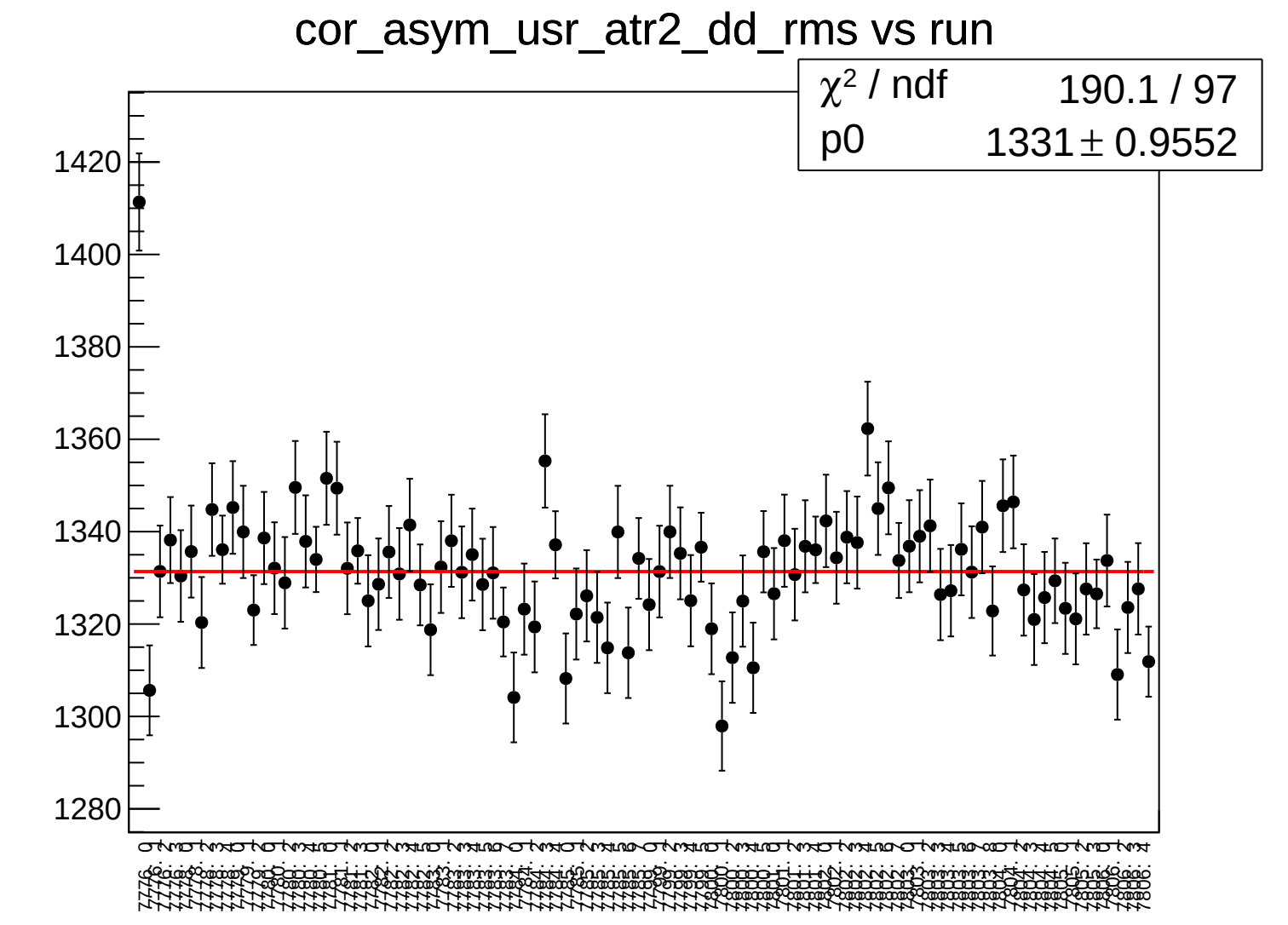

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 81.95 / 97
p0 −4521 ± 5333
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 501.7
Std Dev 0
3
2
1
0
−1
−2

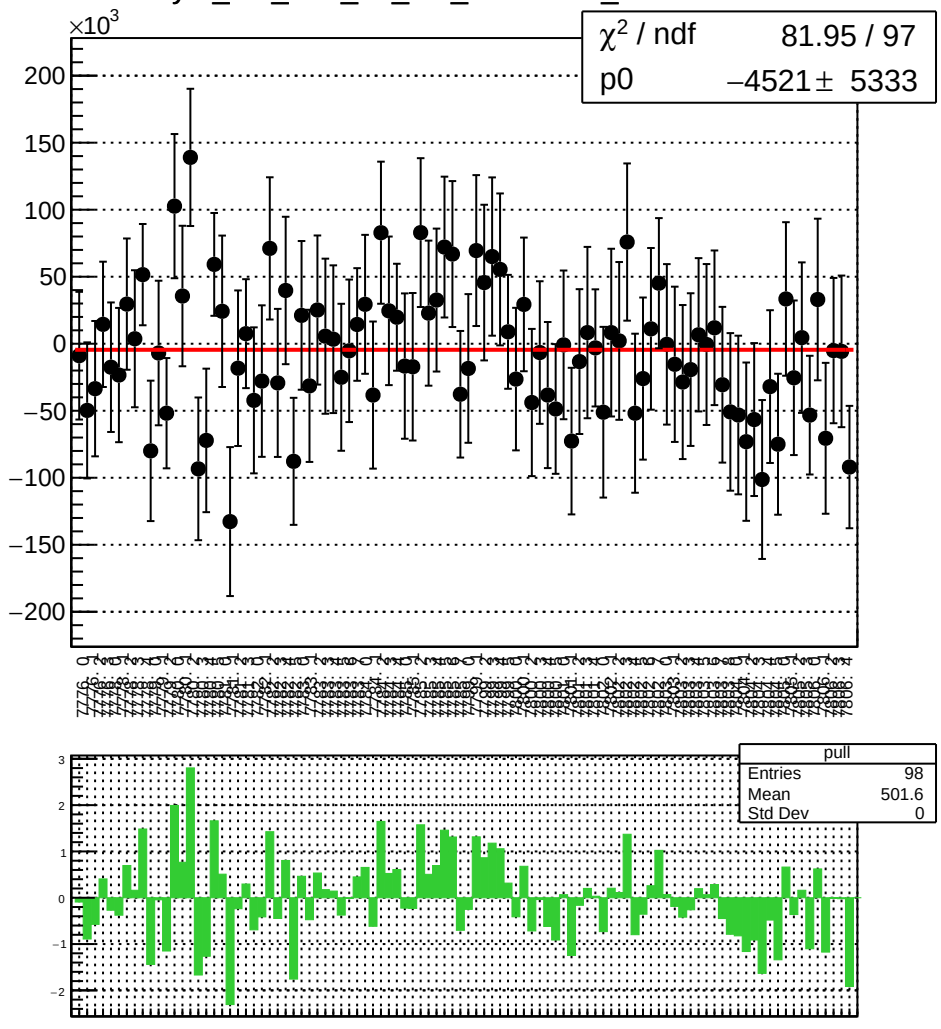

pull1D
Entries 98
Mean −0.01066
Std Dev 0.9144
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

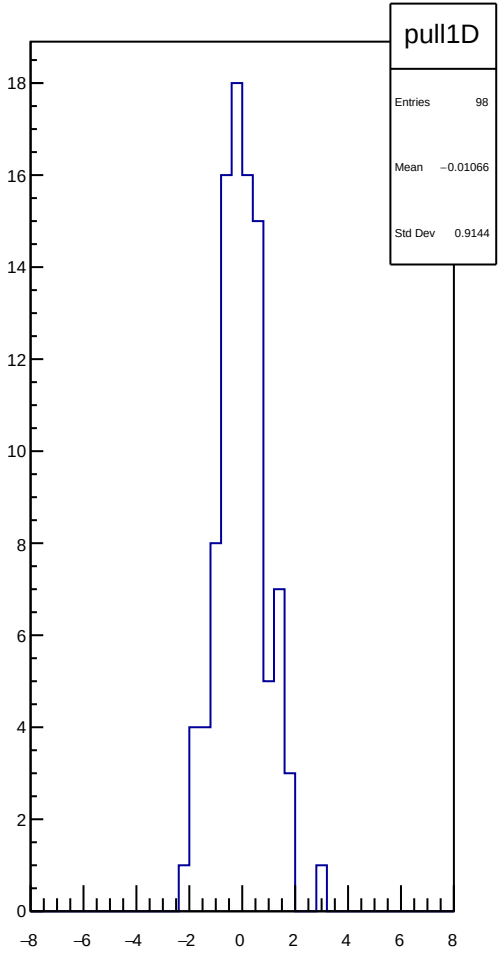

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 6406 / 97
p0 5248 ± 3.771
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

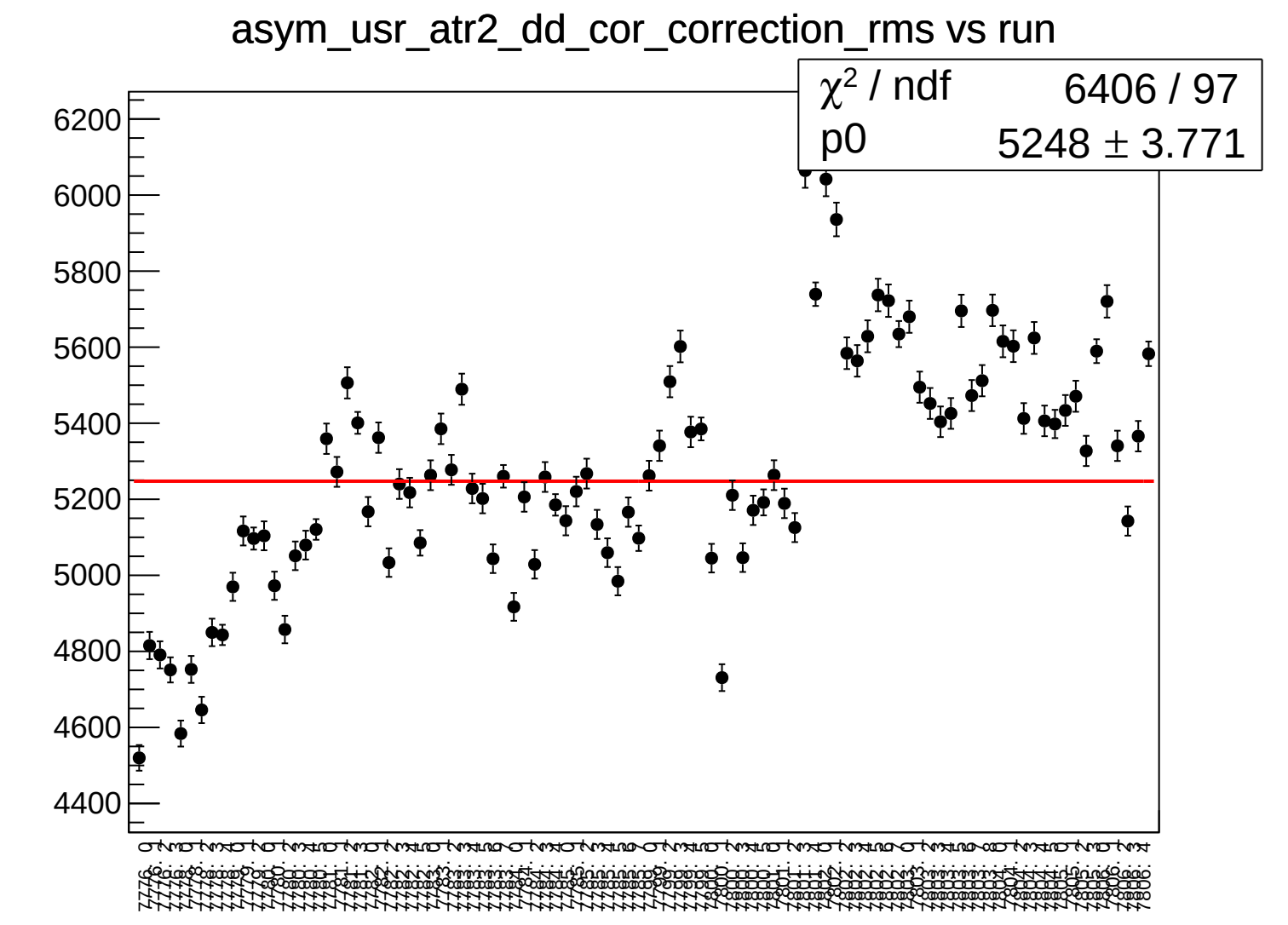

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 72.94 / 97
p0 −600.9 ± 1351
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 102.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

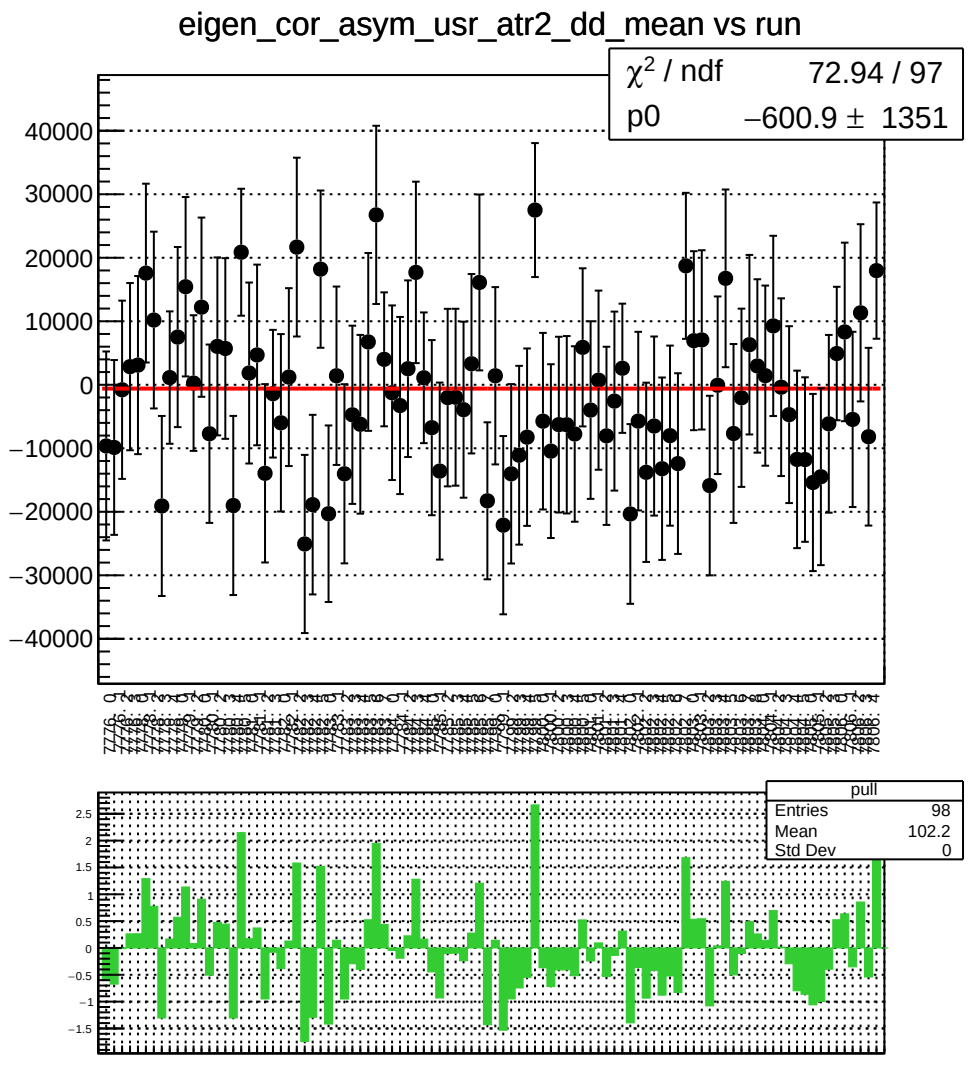

pull1D
Entries 98
Mean −0.03276
Std Dev 0.8621
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

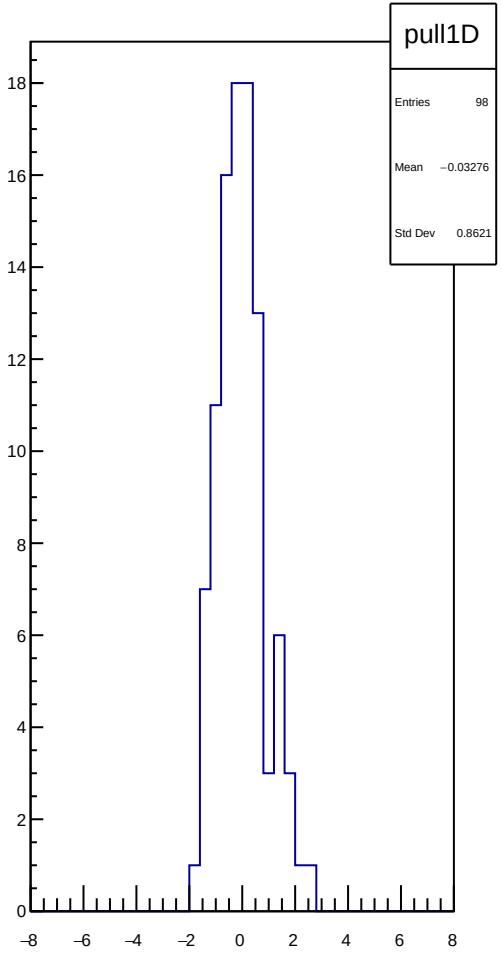

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 190.1 / 97
p0 1331 ± 0.9552
1420
1400
1380
1360
1340
1320
1300
1280

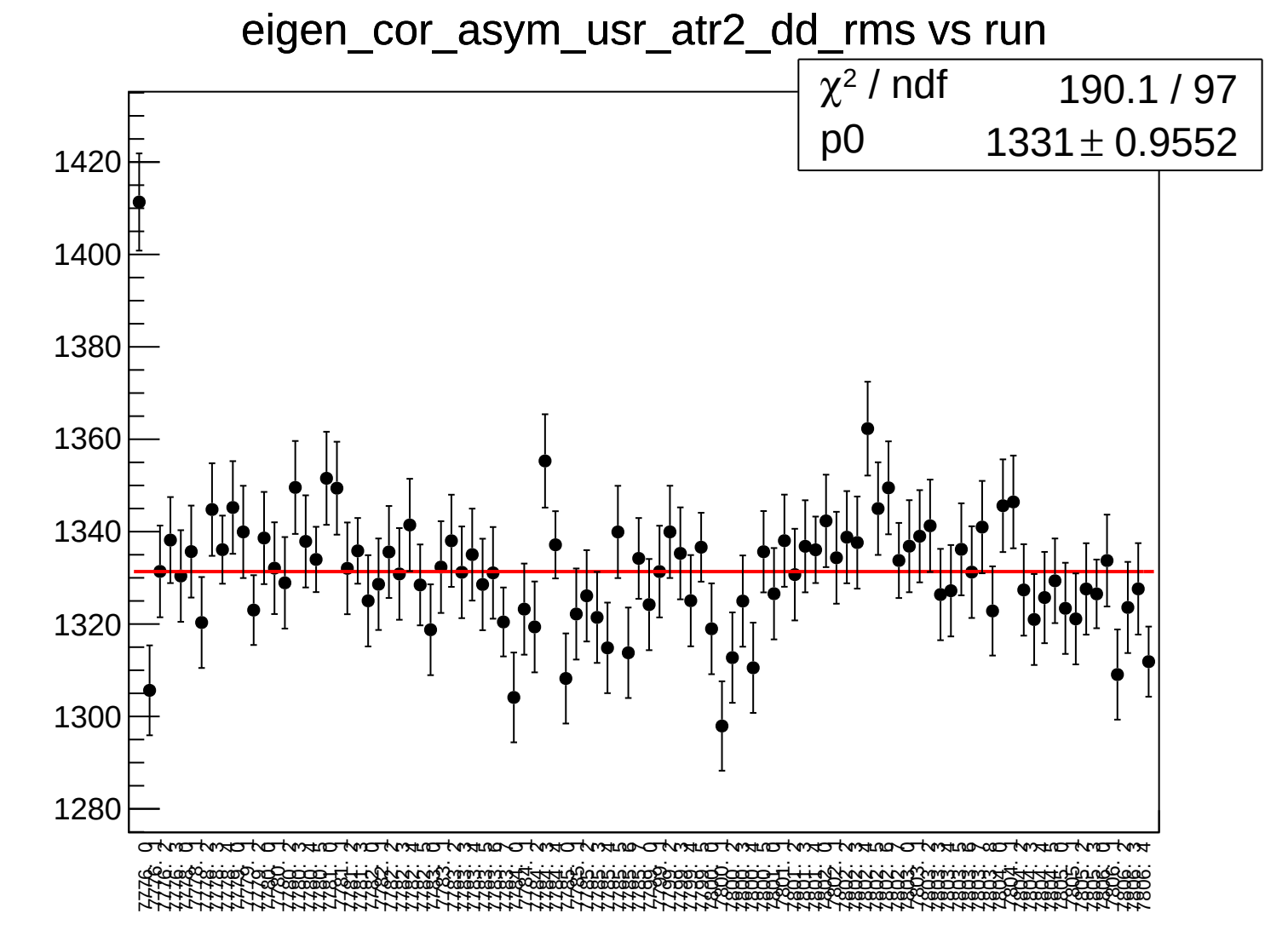

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 81.95 / 97
p0 −4521 ± 5333
pull
Entries 98
Mean 501.6
Std Dev 0

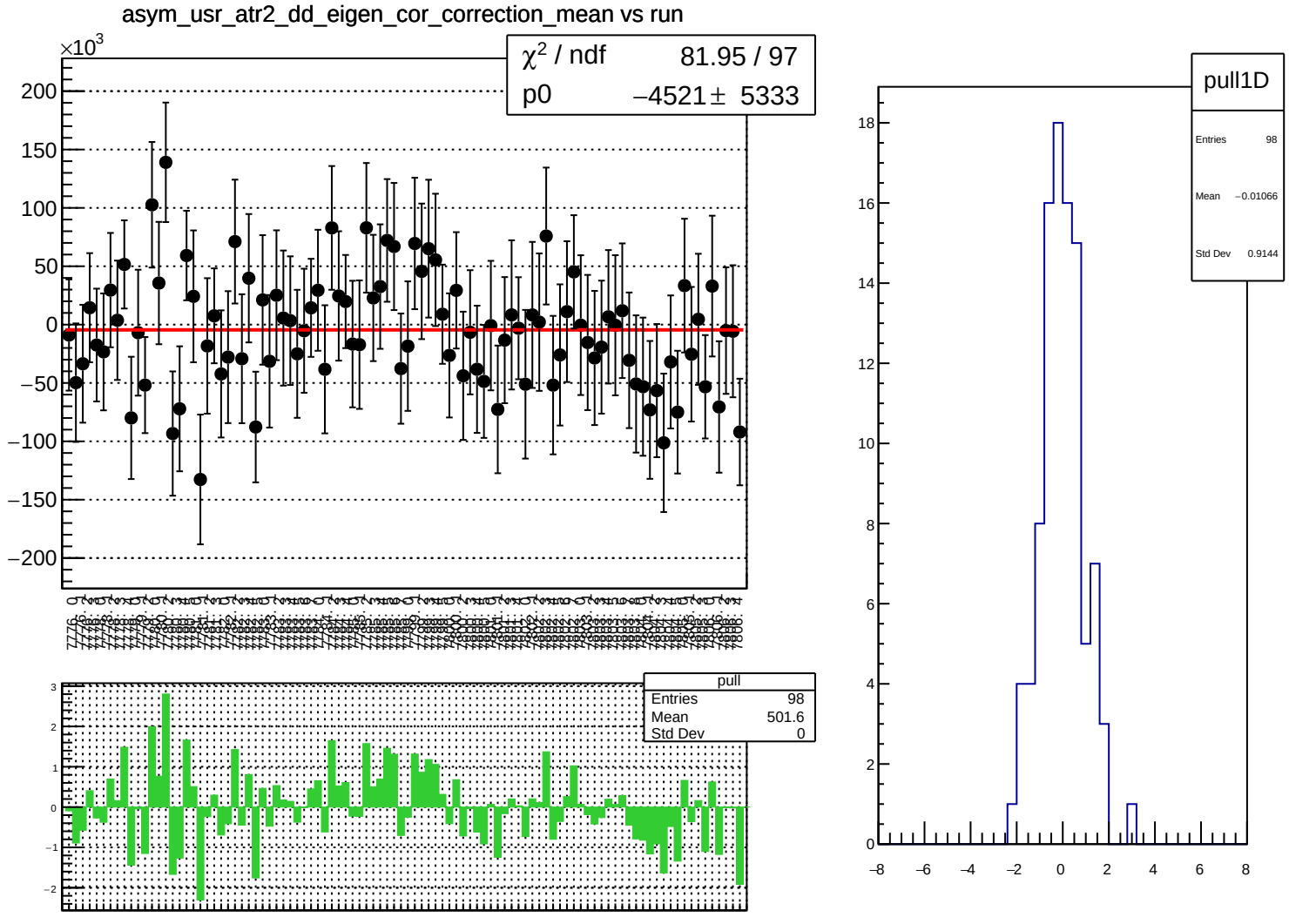

pull1D
Entries 98
Mean −0.01066
Std Dev 0.9144

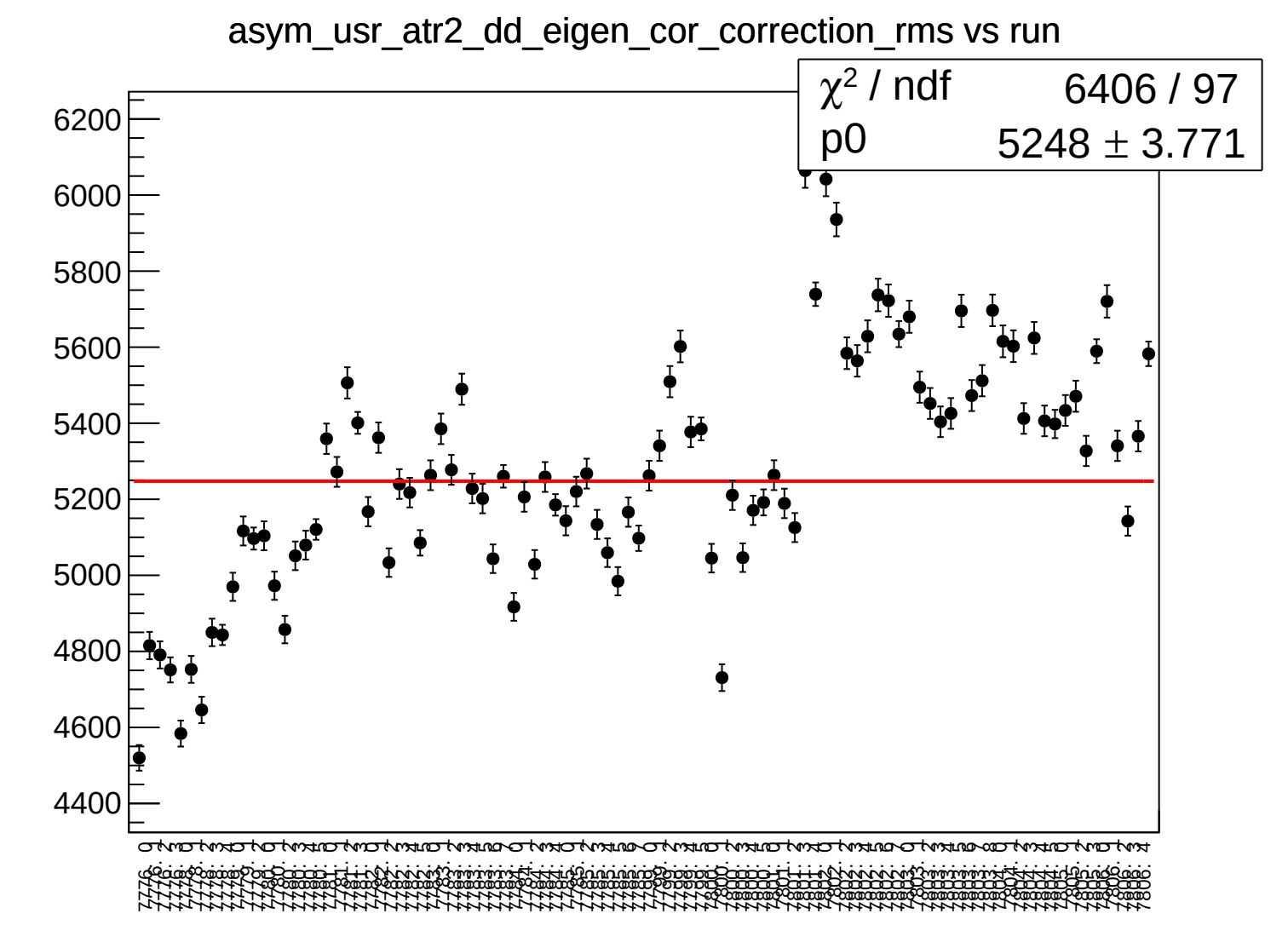

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 6406 / 97
p0 5248 ± 3.771
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

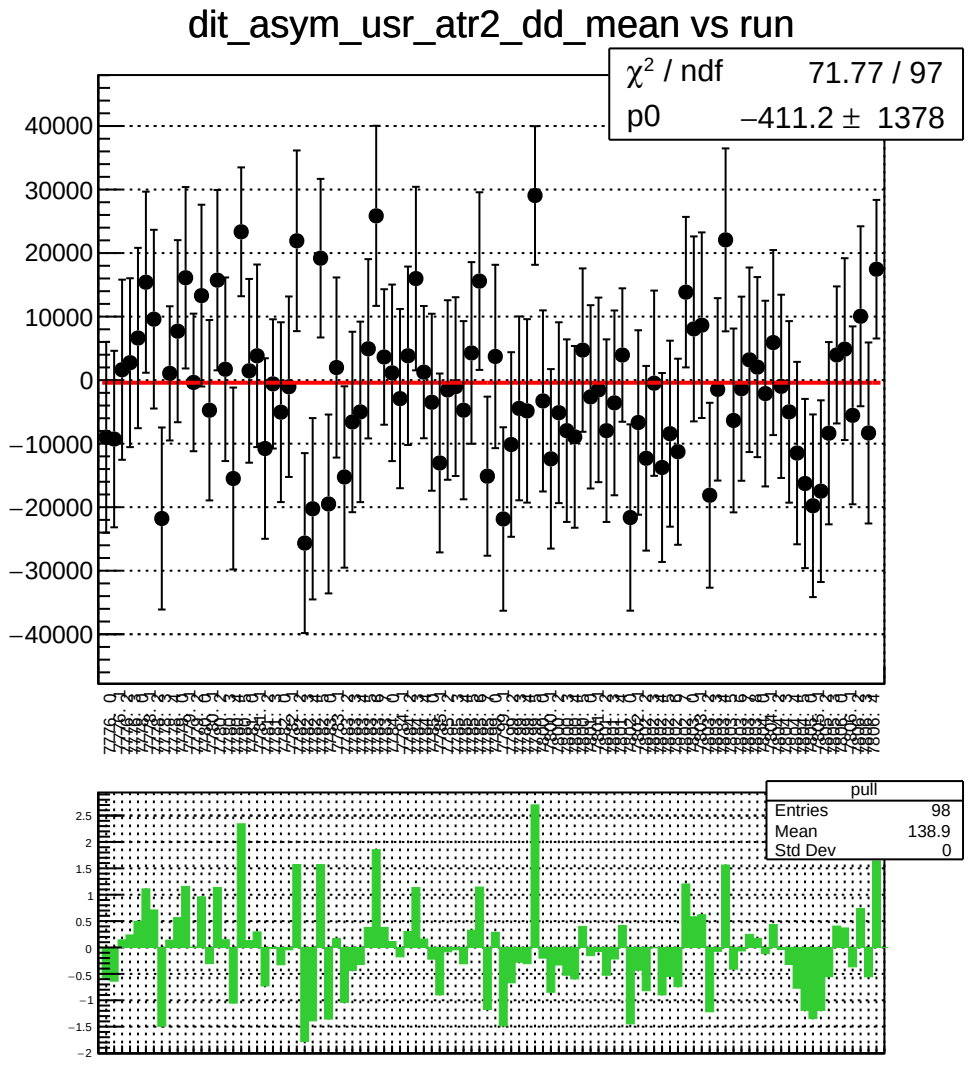

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 72.94 / 97
p0 −600.9 ± 1351
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 102.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

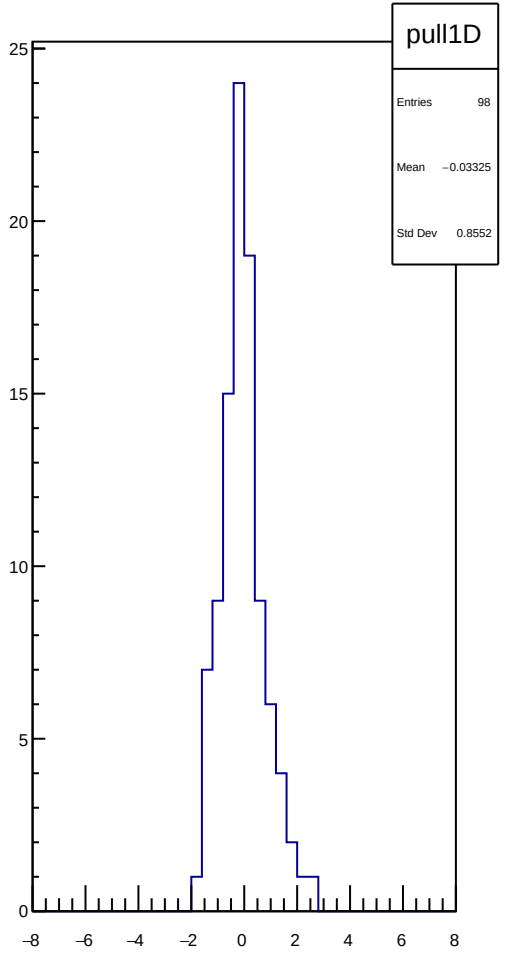

pull1D
Entries 98
Mean −0.03276
Std Dev 0.8621
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

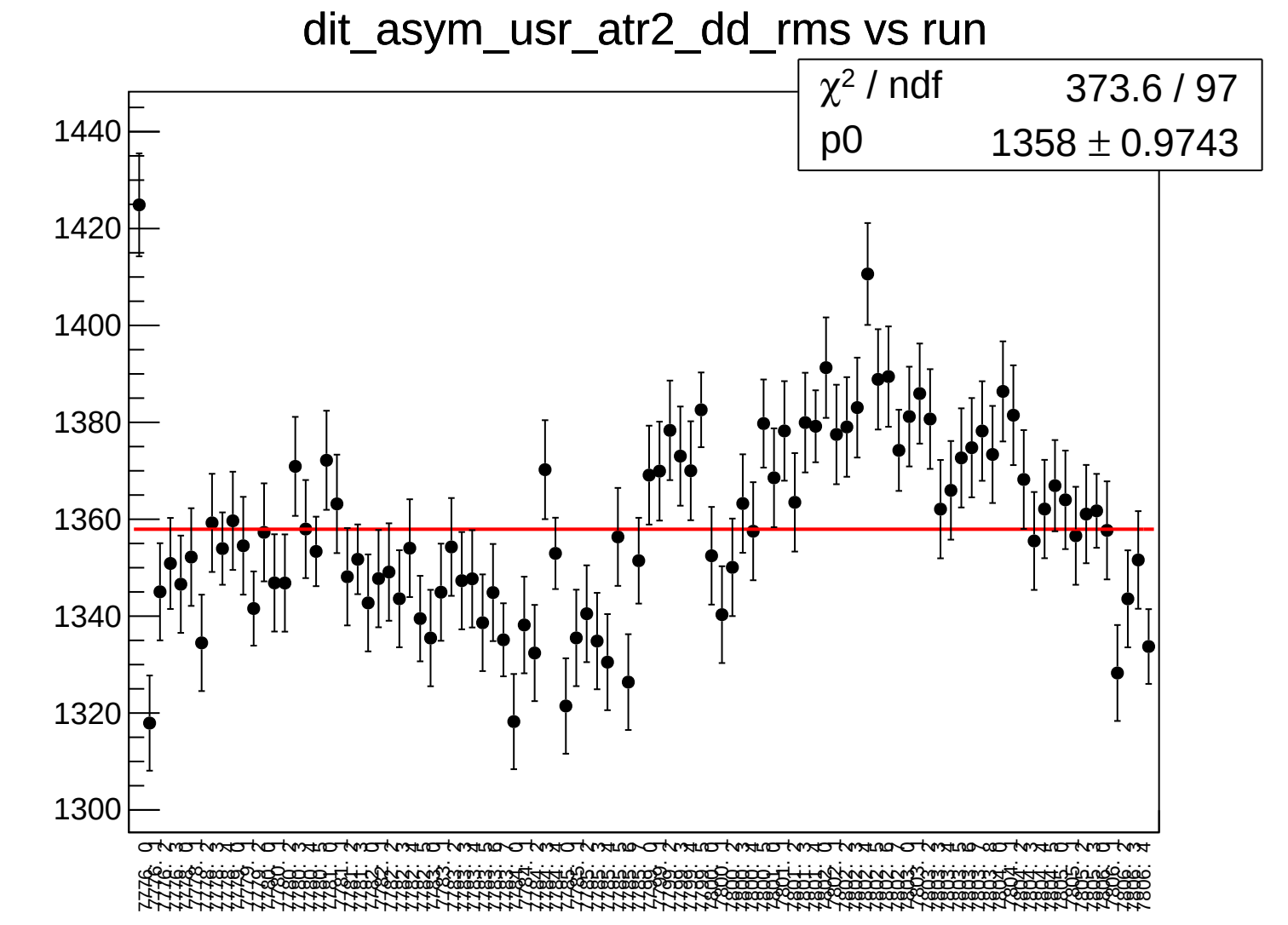

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 190.1 / 97
p0 1331 ± 0.9552
1420
1400
1380
1360
1340
1320
1300
1280

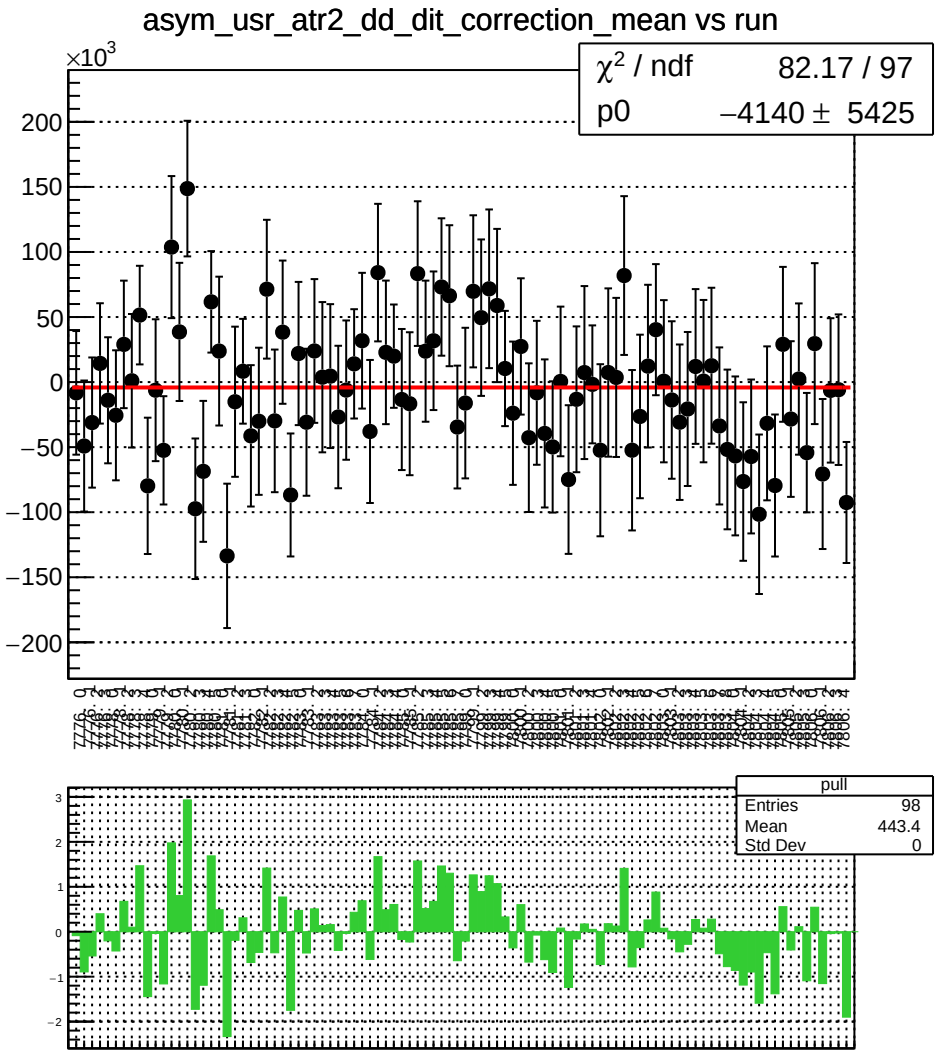

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.95 / 97
p0 −4521 ± 5333
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 501.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01066
Std Dev 0.9144
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

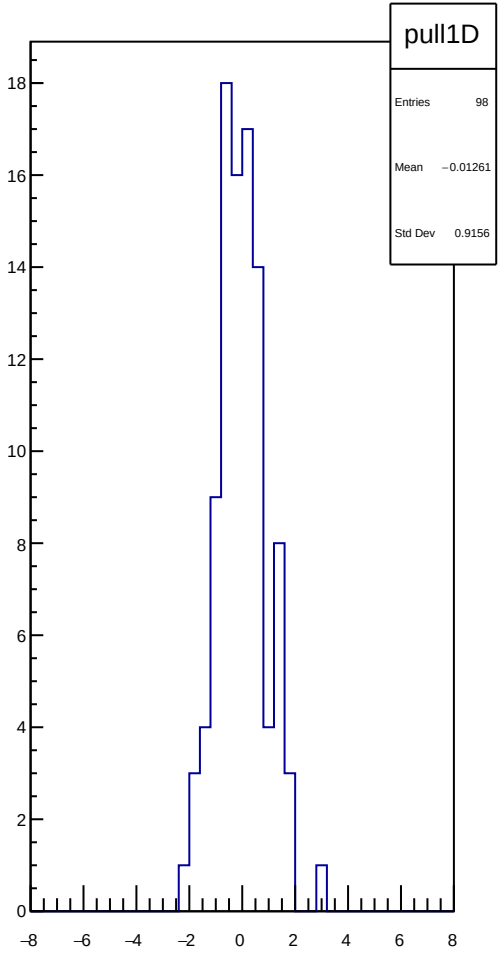

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6406 / 97
p0 5248 ± 3.771
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

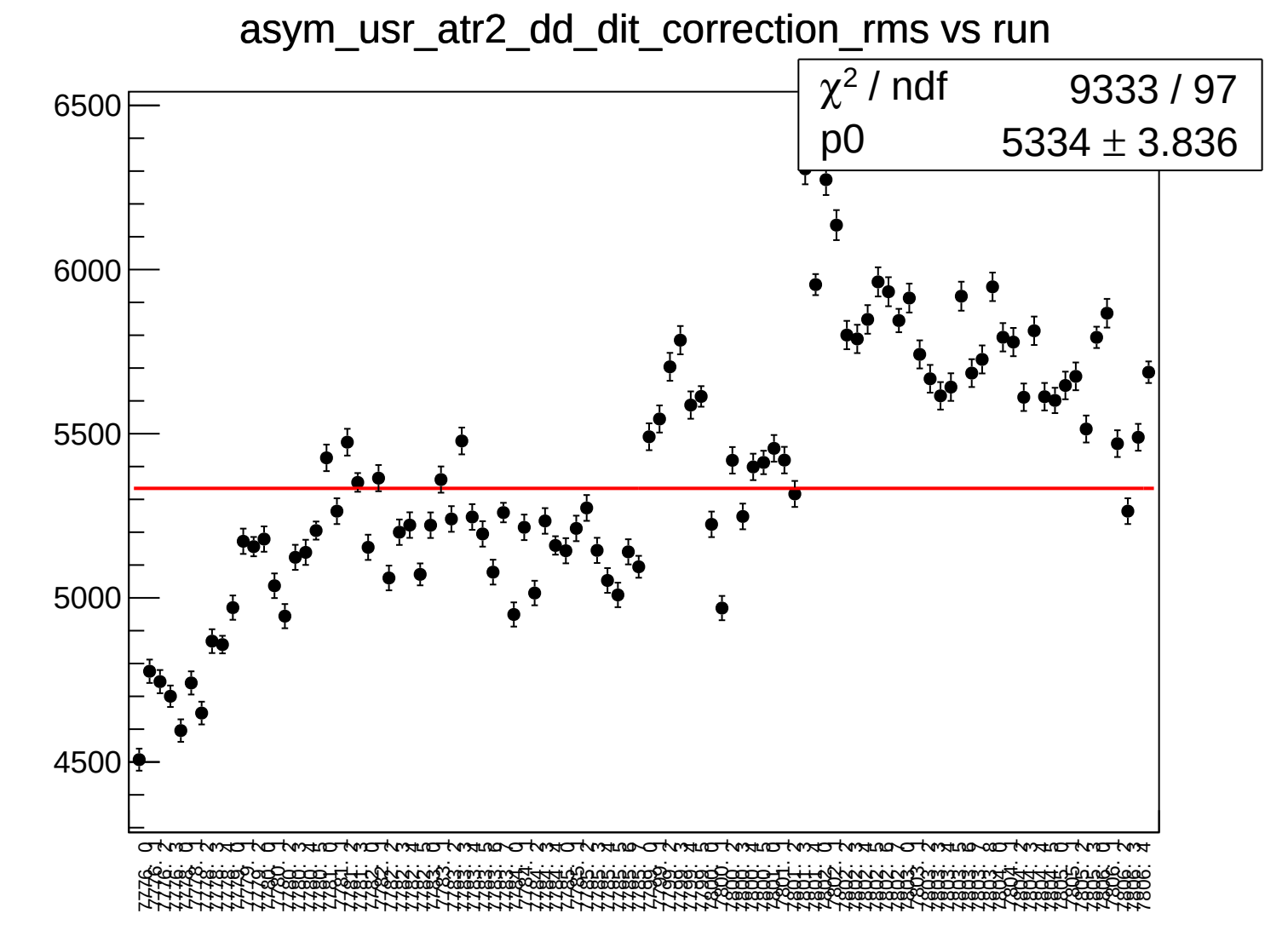

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 71.77 / 97
p0 −411.2 ± 1378
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 138.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

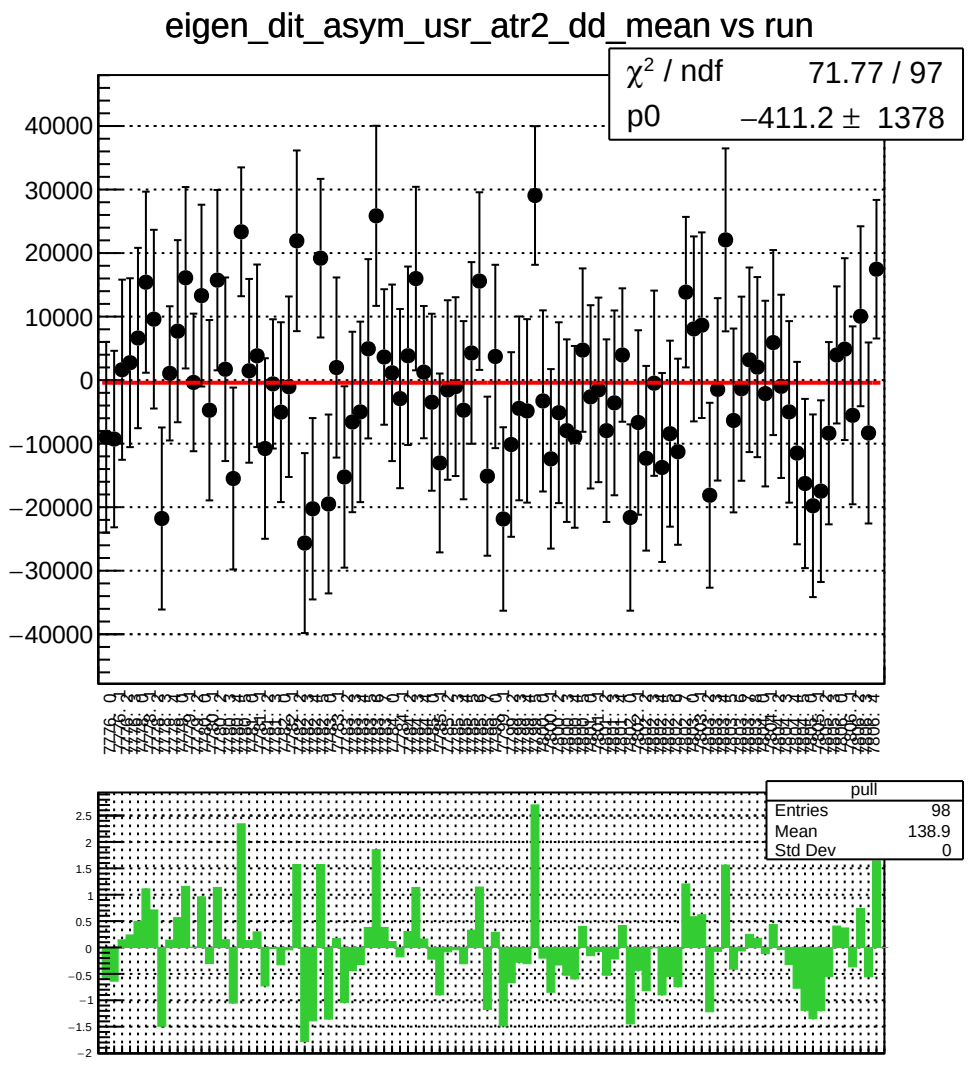

pull1D
Entries 98
Mean −0.03325
Std Dev 0.8552
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

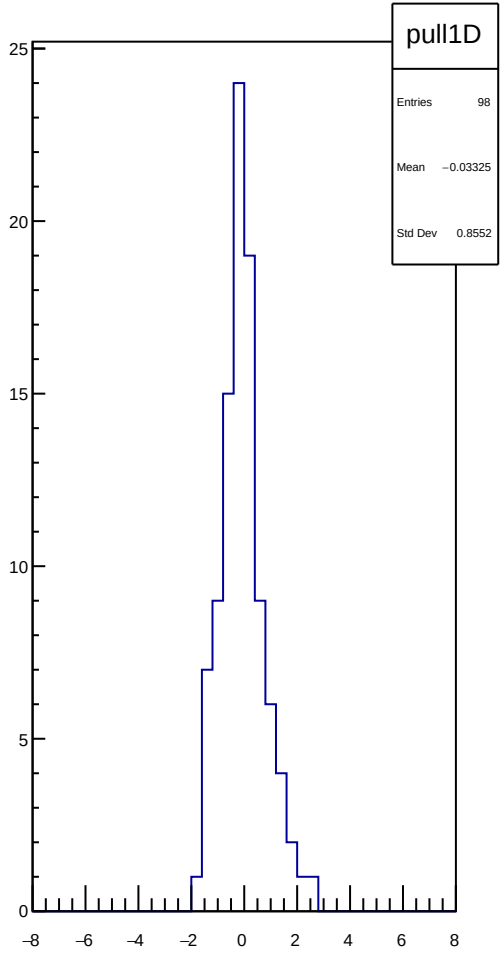

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 373.6 / 97
p0 1358 ± 0.9743
1440
1420
1400
1380
1360
1340
1320
1300

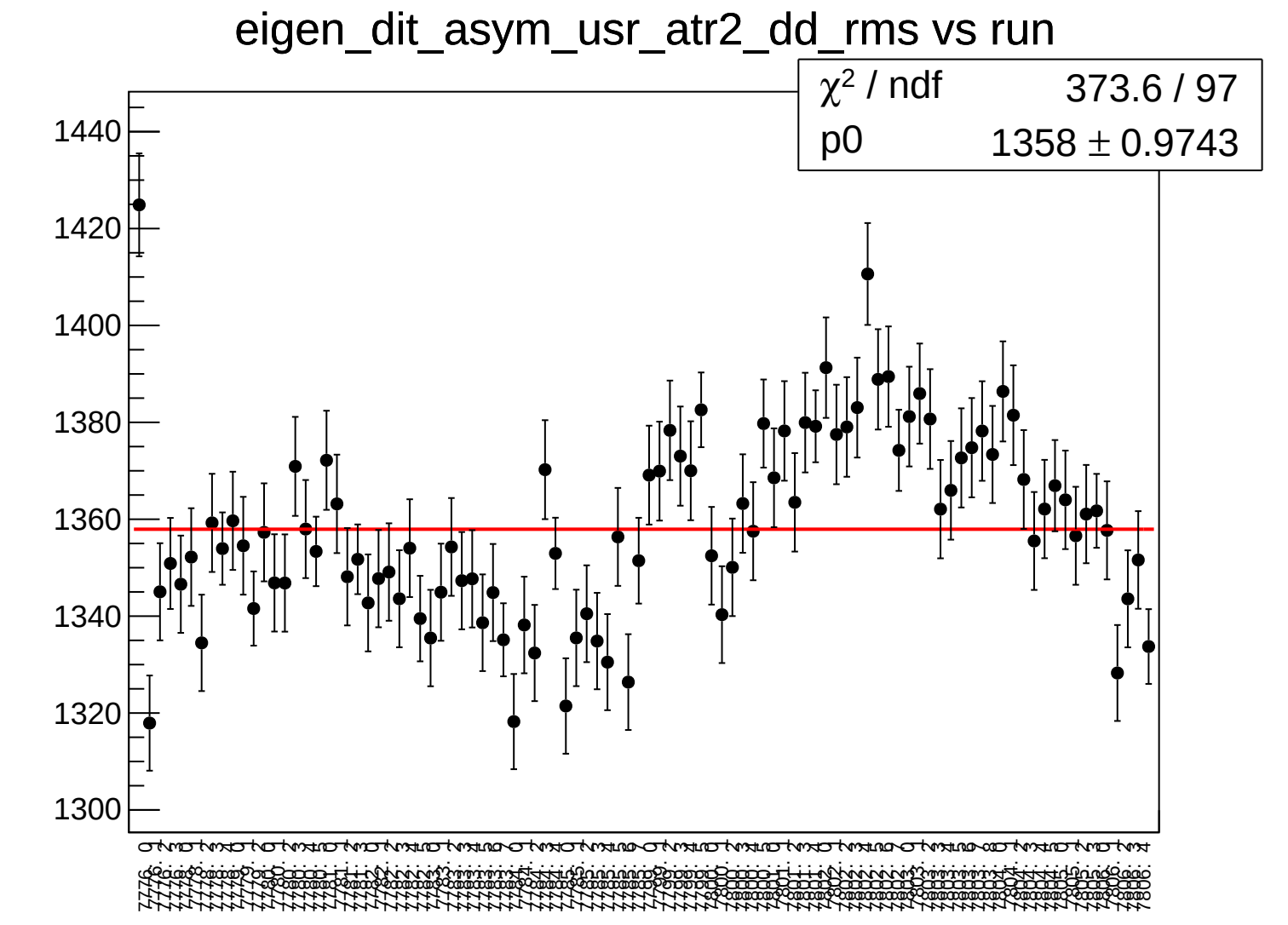

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.17 / 97
p0 −4140 ± 5425
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 443.4
Std Dev 0
3
2
1
0
−1
−2

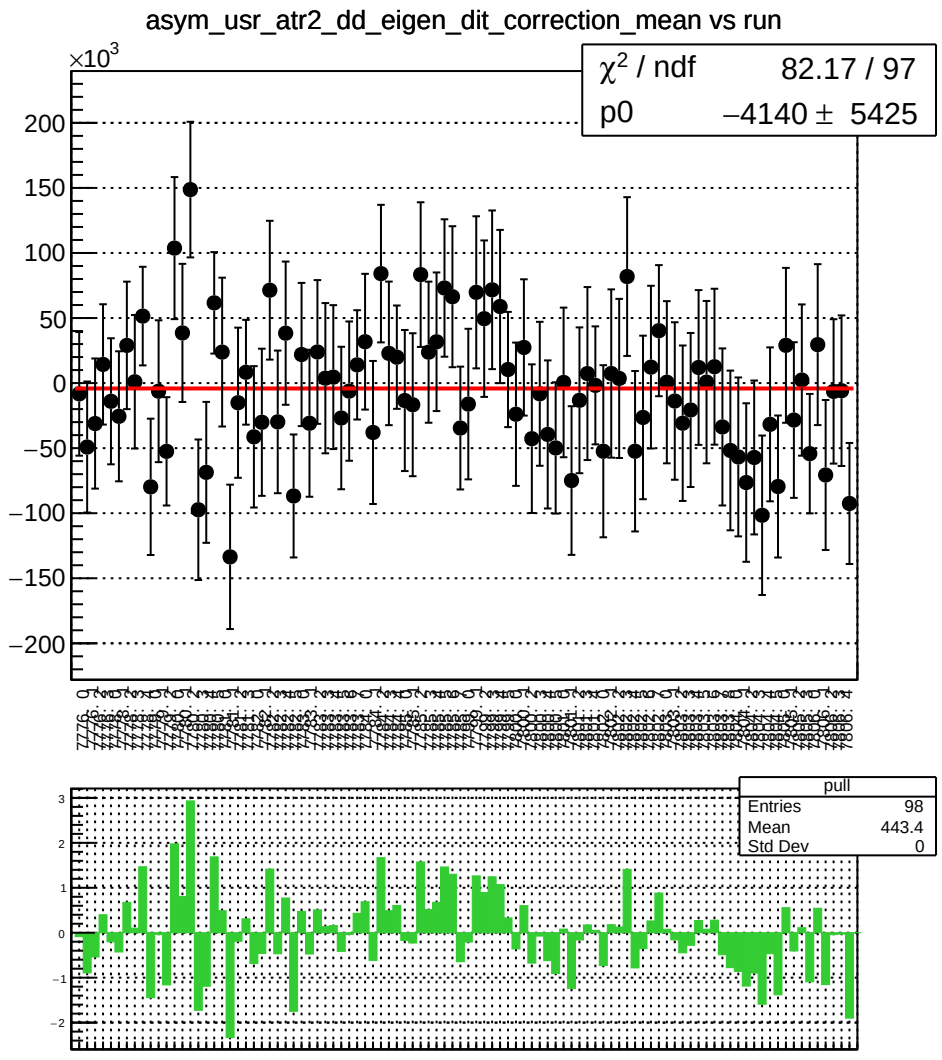

pull1D
Entries 98
Mean −0.01261
Std Dev 0.9156
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

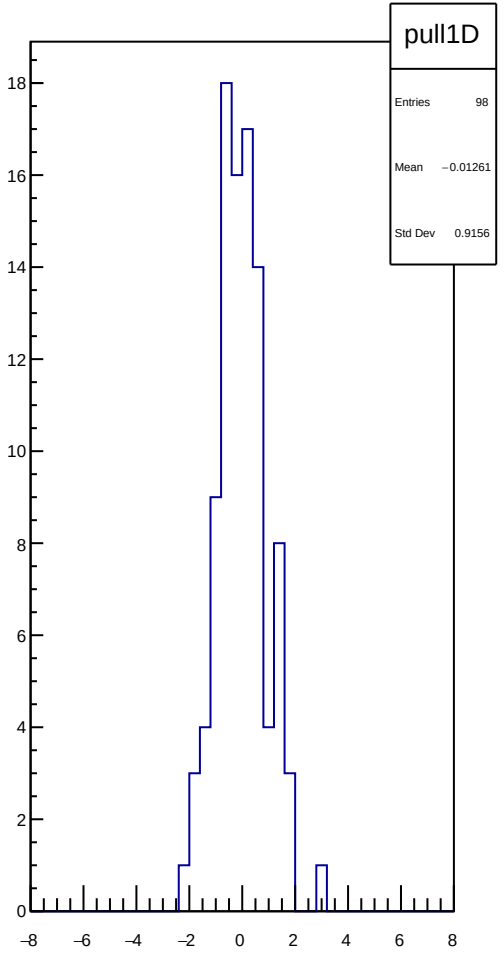

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 9333 / 97
p0 5334 ± 3.836
6500
6000
5500
5000
4500

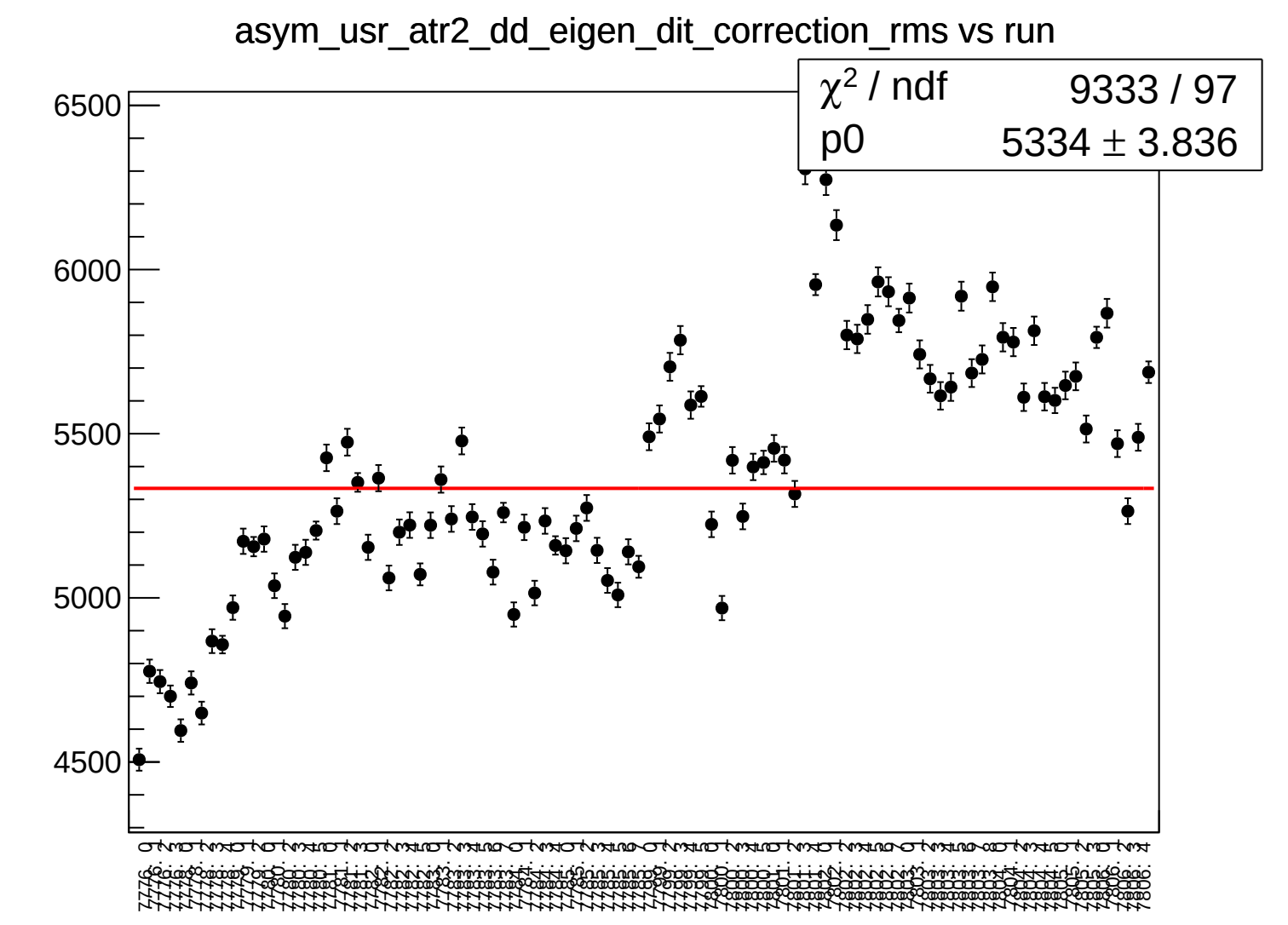

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 71.77 / 97
p0 −411.2 ± 1378
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 138.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

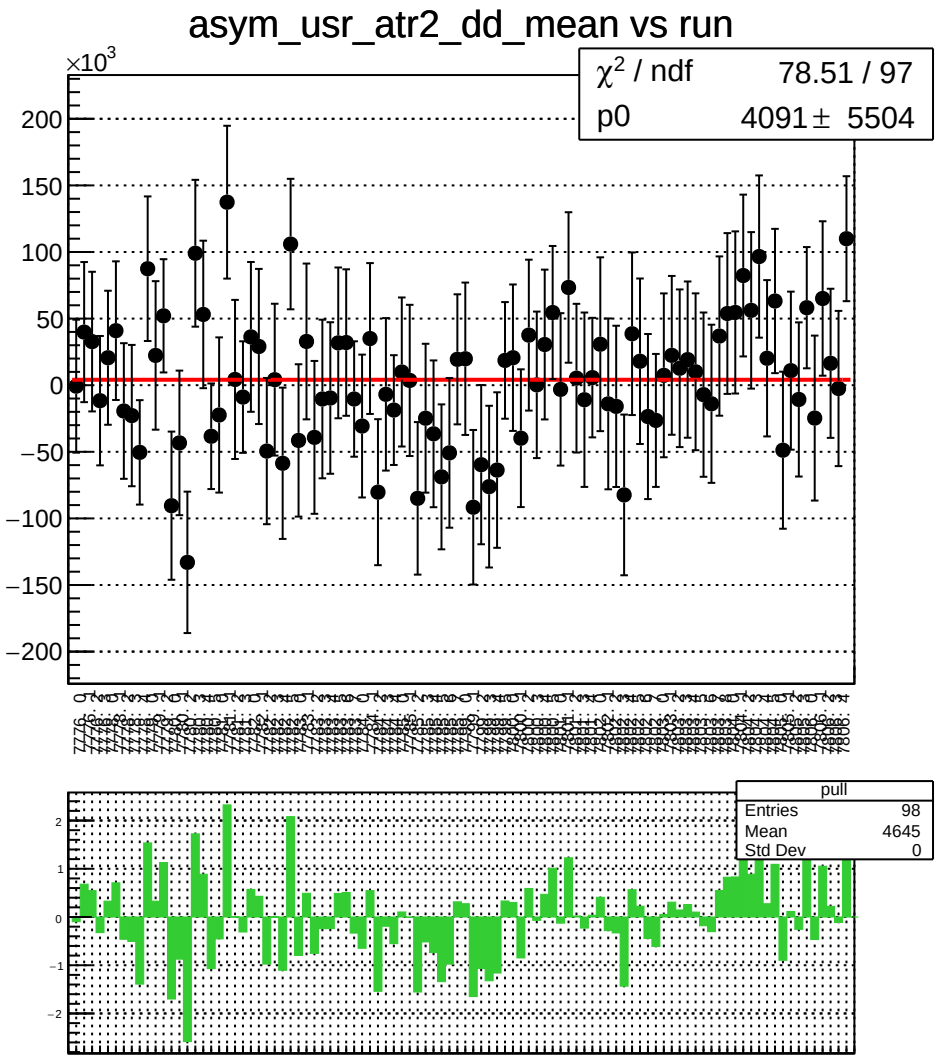

pull1D
Entries 98
Mean −0.03325
Std Dev 0.8552
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

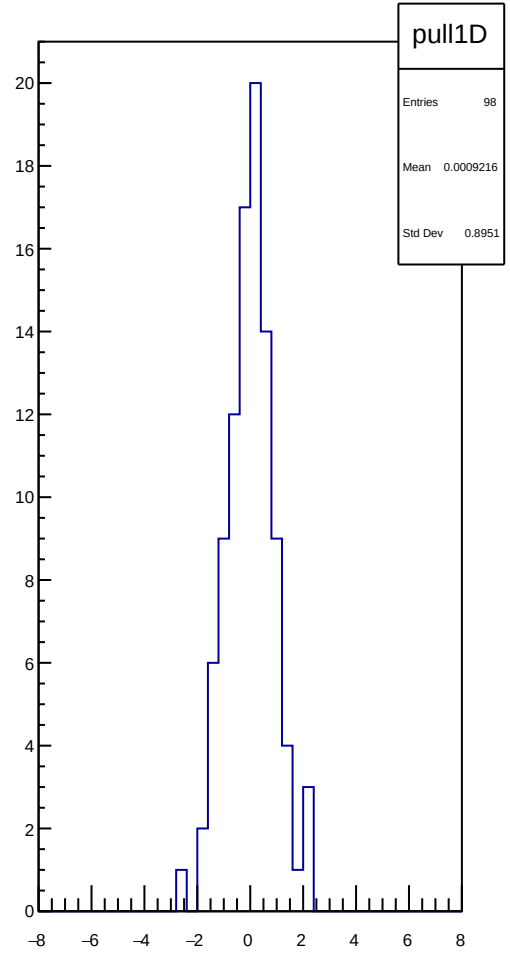

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 373.6 / 97
p0 1358 ± 0.9743
1440
1420
1400
1380
1360
1340
1320
1300

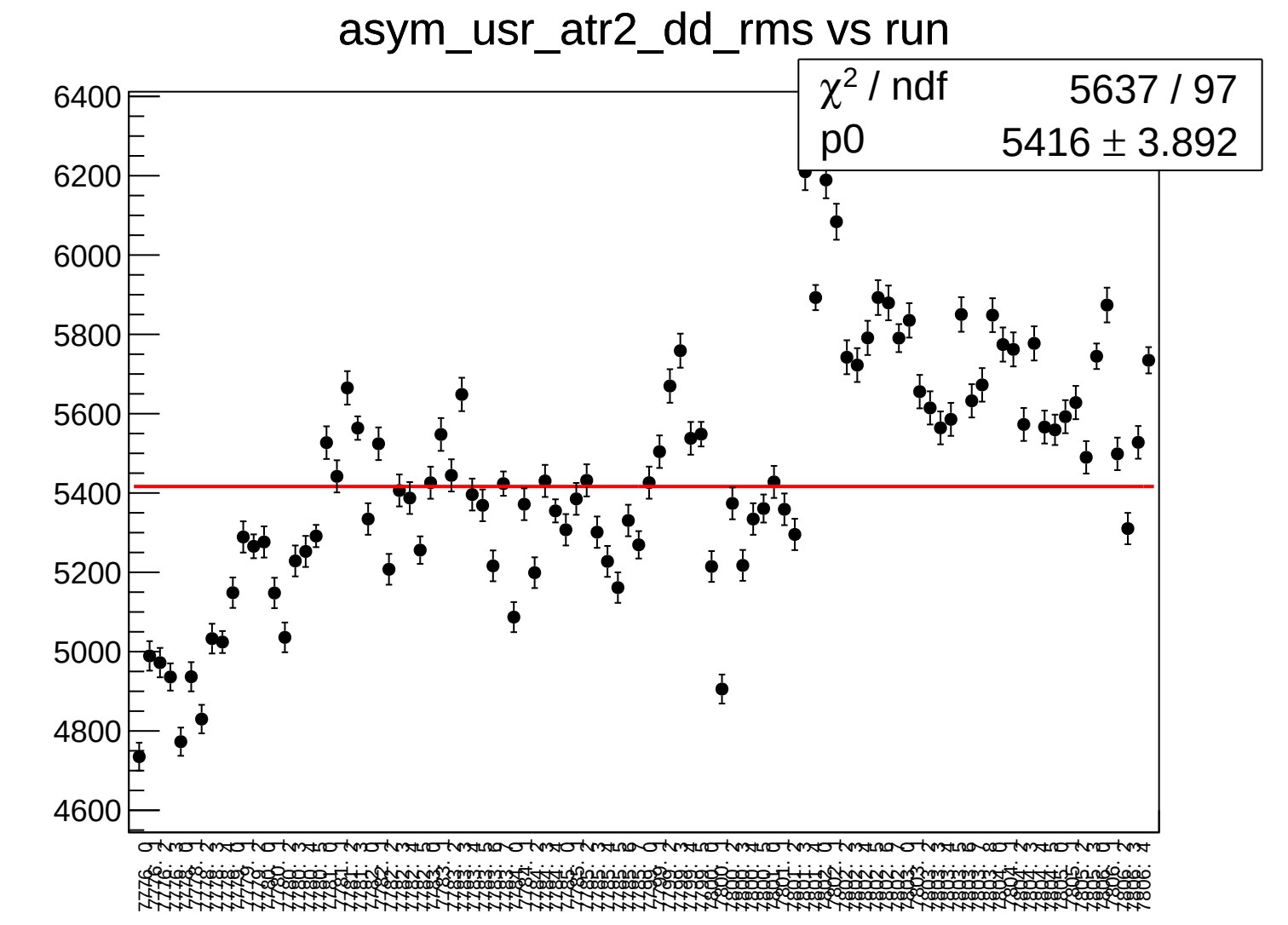

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.17 / 97
p0 −4140 ± 5425
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 443.4
Std Dev 0
3
2
1
0
−1
−2

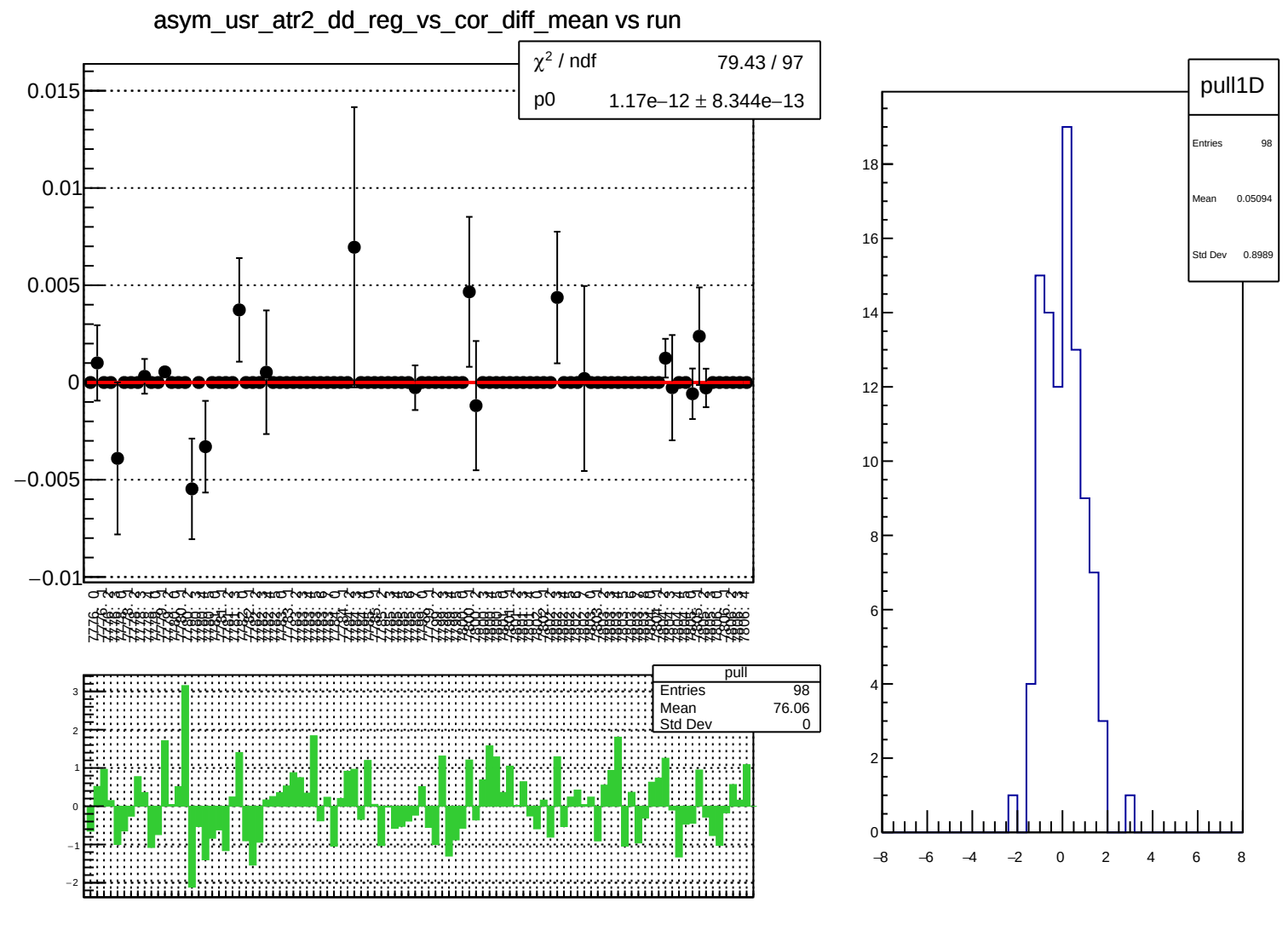

pull1D
Entries 98
Mean −0.01261
Std Dev 0.9156
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

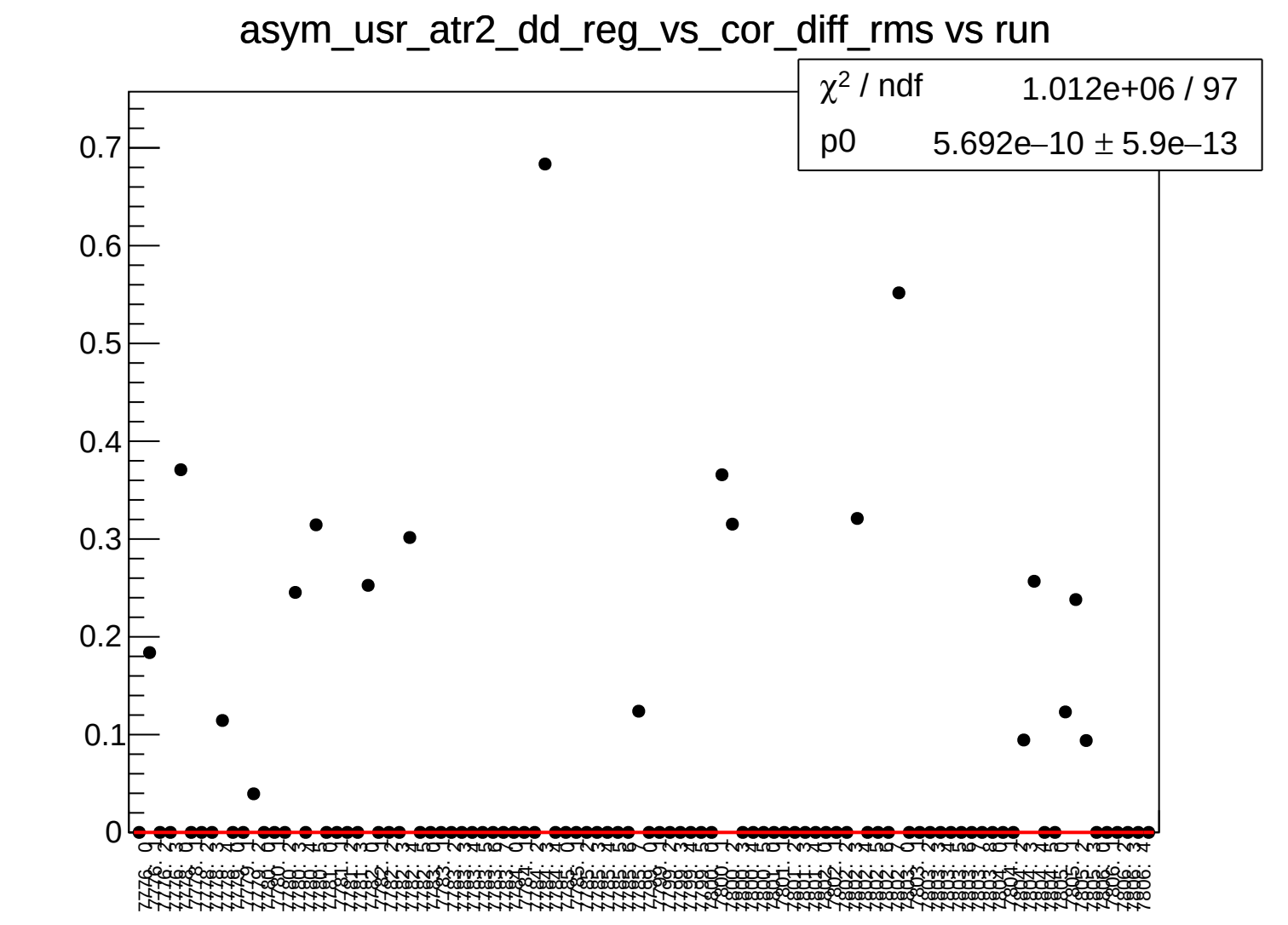

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 9333 / 97
p0 5334 ± 3.836
6500
6000
5500
5000
4500

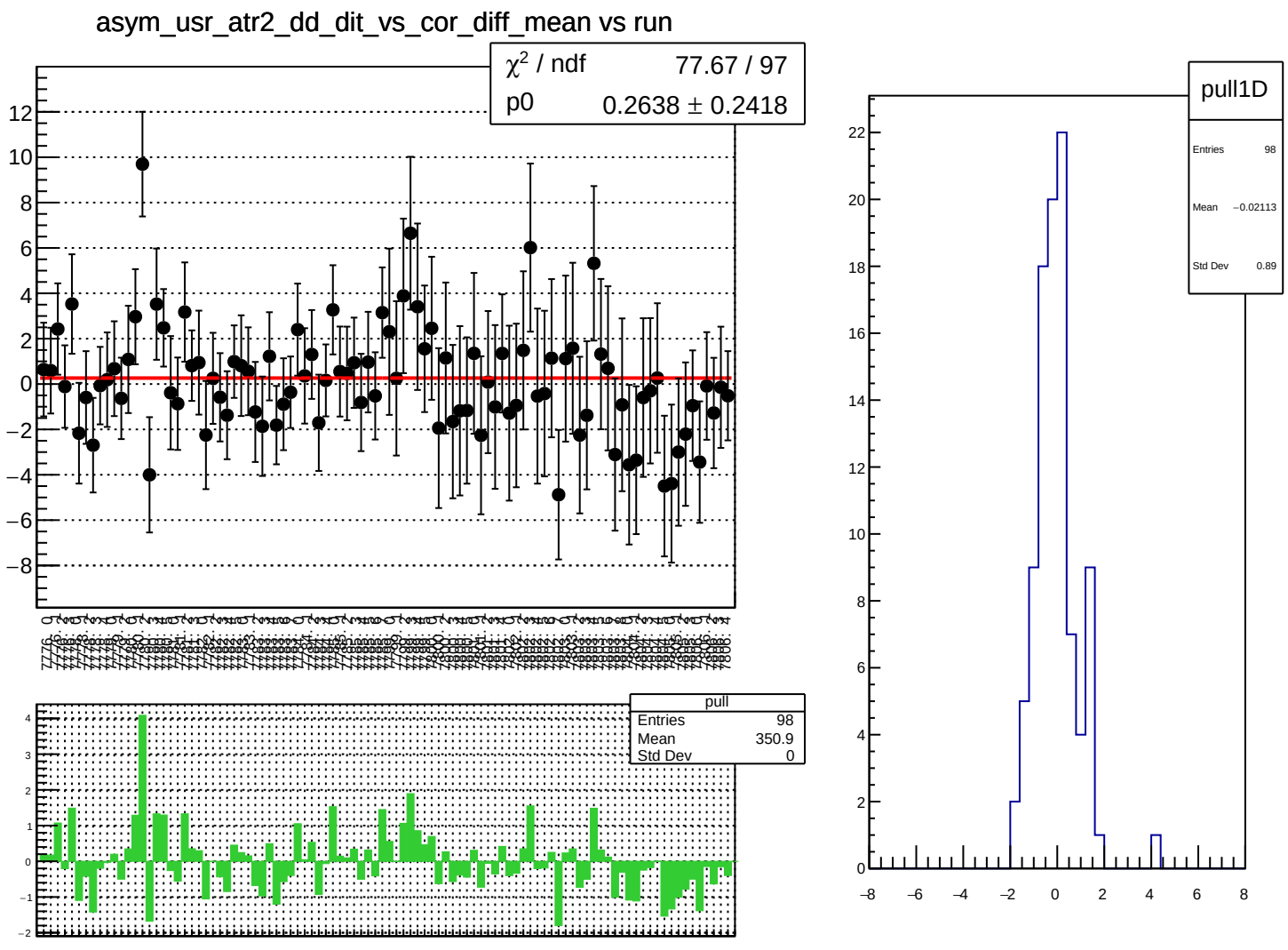

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 78.51 / 97
p0 4091 ± 5504
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 4645
Std Dev 0
2
1
0
−1
−2

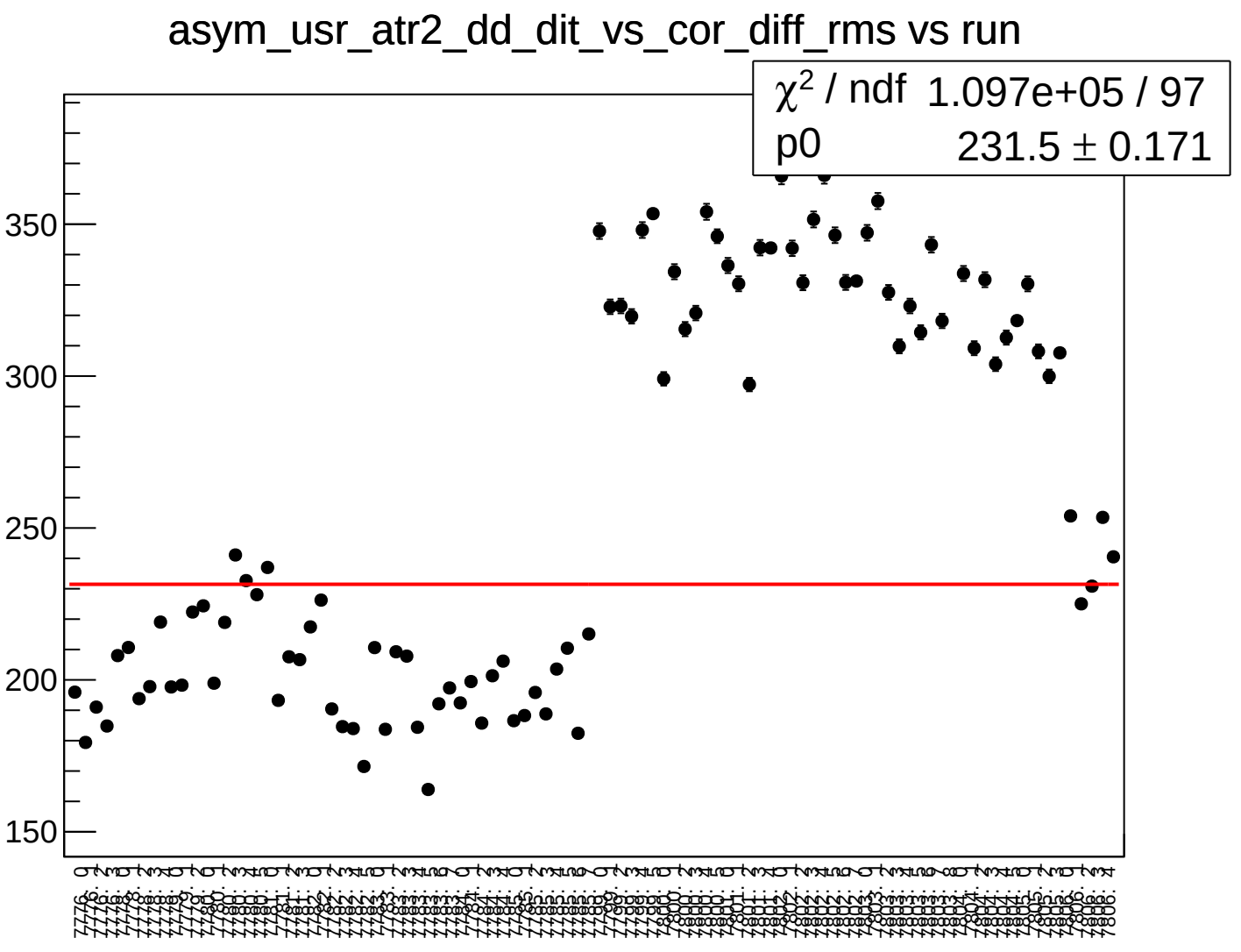

pull1D
Entries 98
Mean 0.0009216
Std Dev 0.8951
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

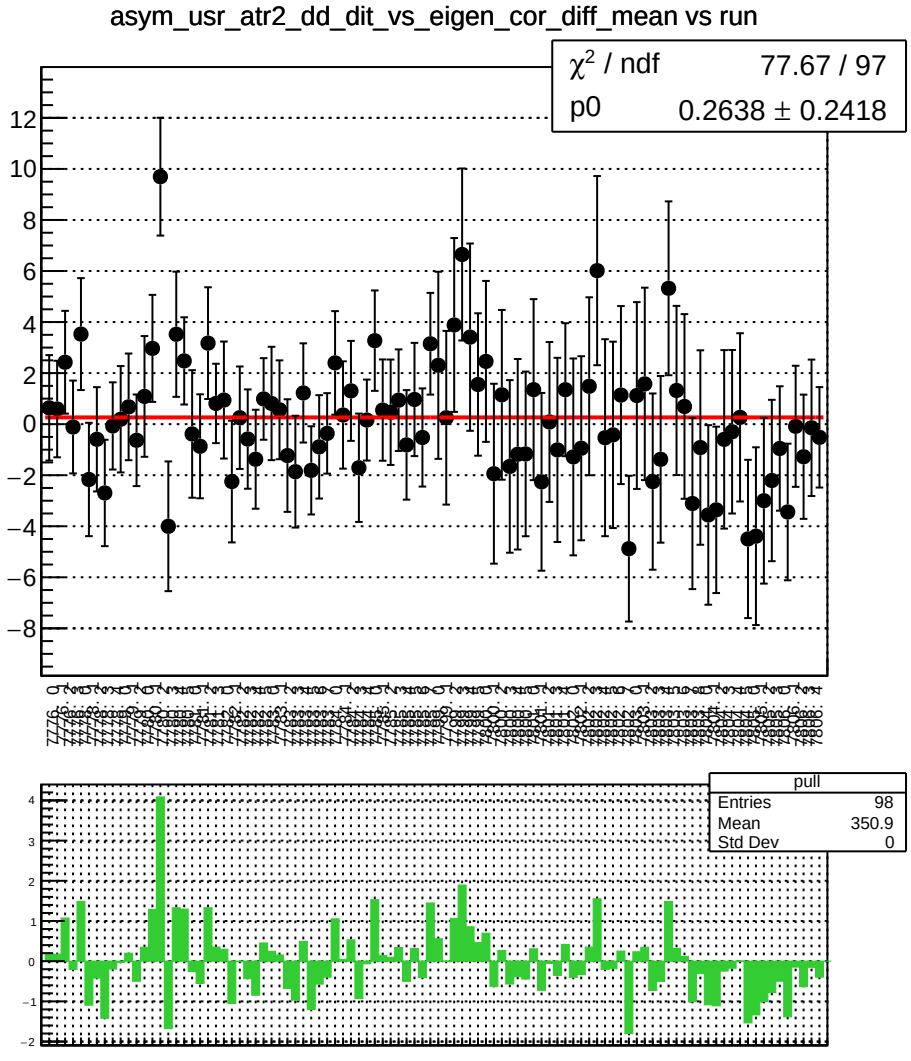

asym_usr_atr2_dd_rms vs run
χ² / ndf 5637 / 97
p0 5416 ± 3.892
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

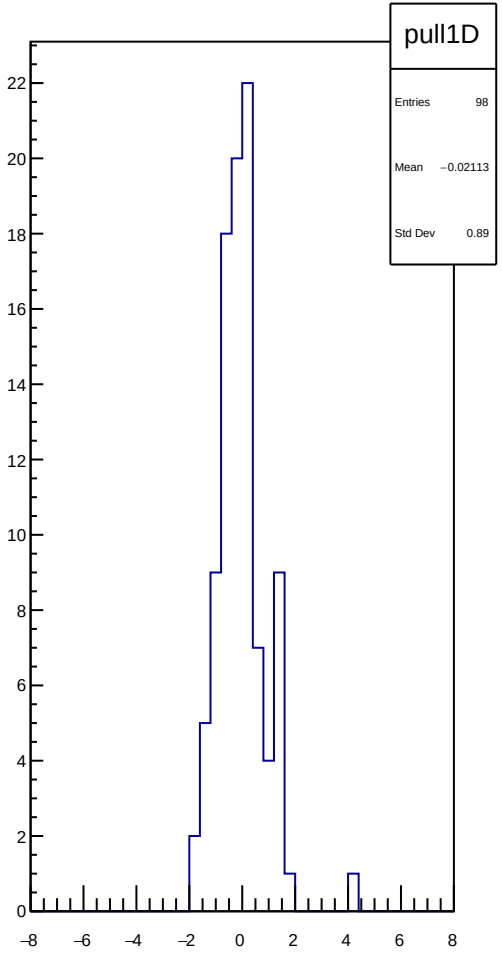

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.43 / 97
p0 1.17e−12 ± 8.344e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 98
Mean 76.06
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.05094
Std Dev 0.8989
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

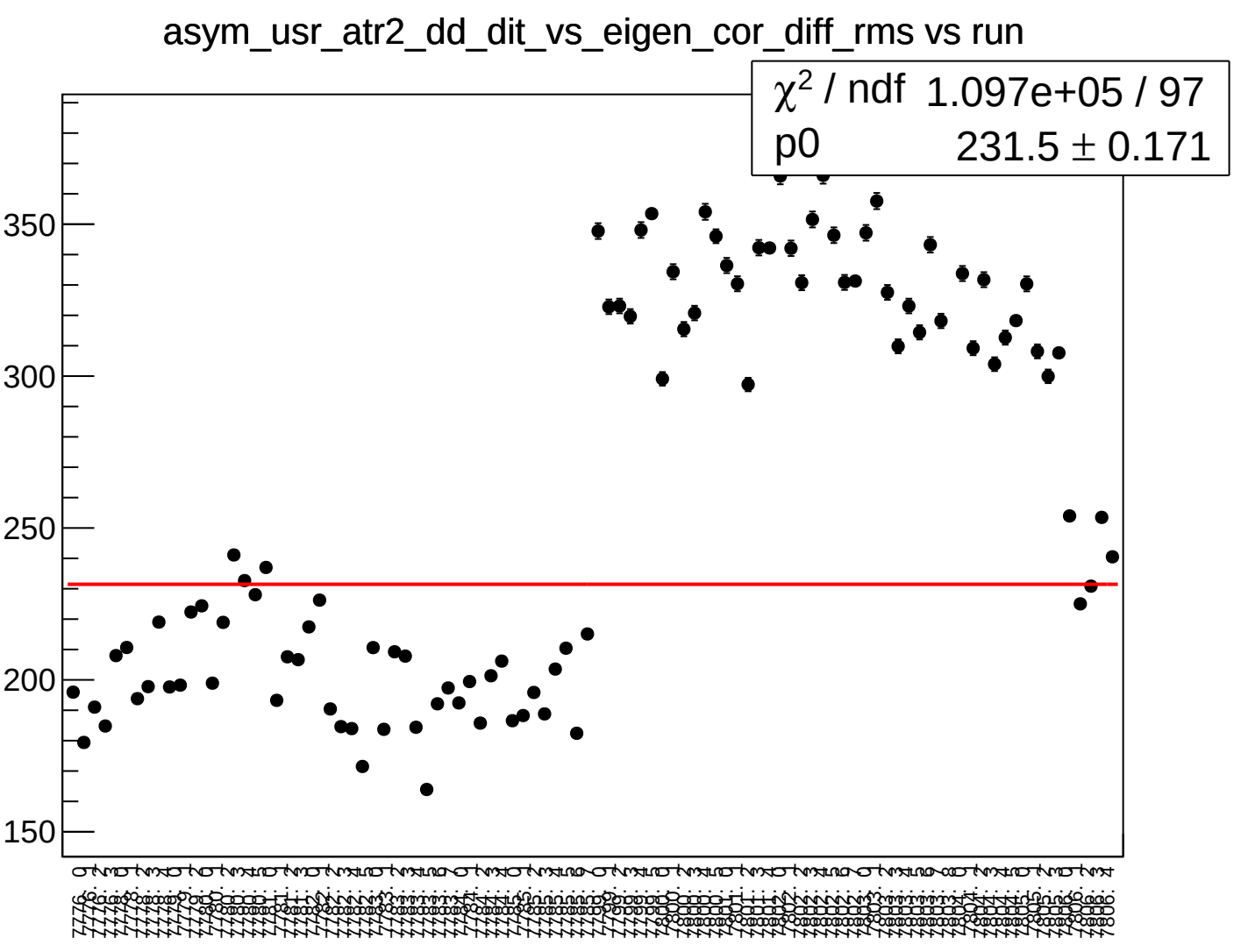

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.012e+06 / 97
p0 5.692e−10 ± 5.9e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

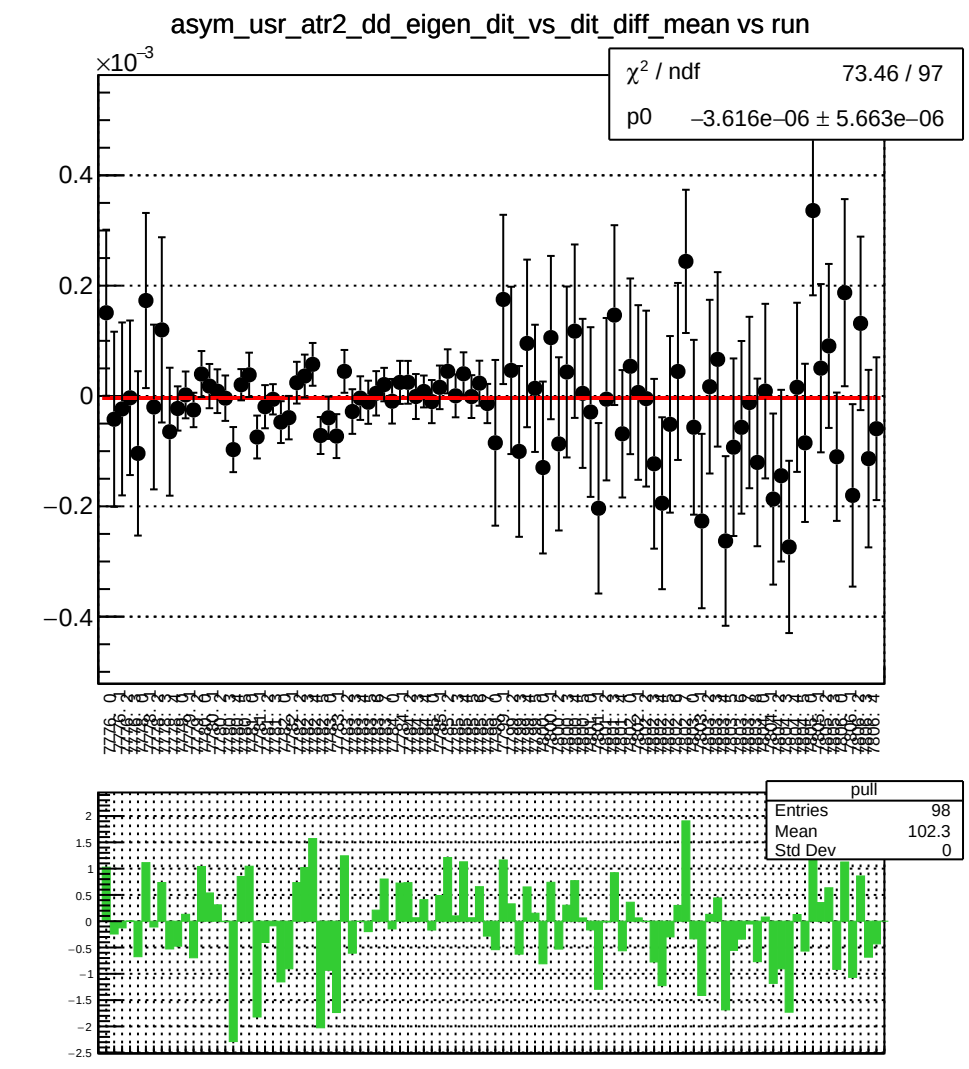

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.67 / 97
p0 0.2638 ± 0.2418
pull
Entries 98
Mean 350.9
Std Dev 0
pull1D
Entries 98
Mean −0.02113
Std Dev 0.89

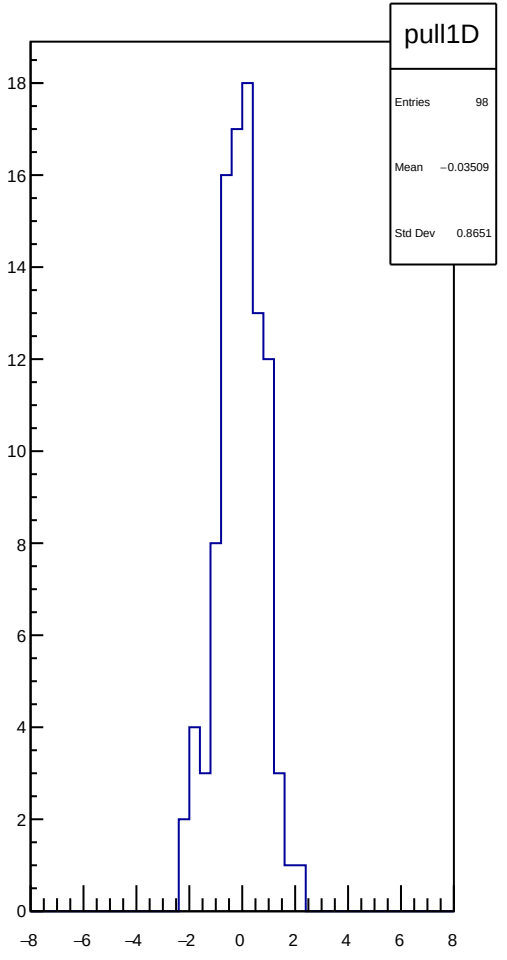

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.097e+05 / 97
p0 231.5 ± 0.171
350
300
250
200
150

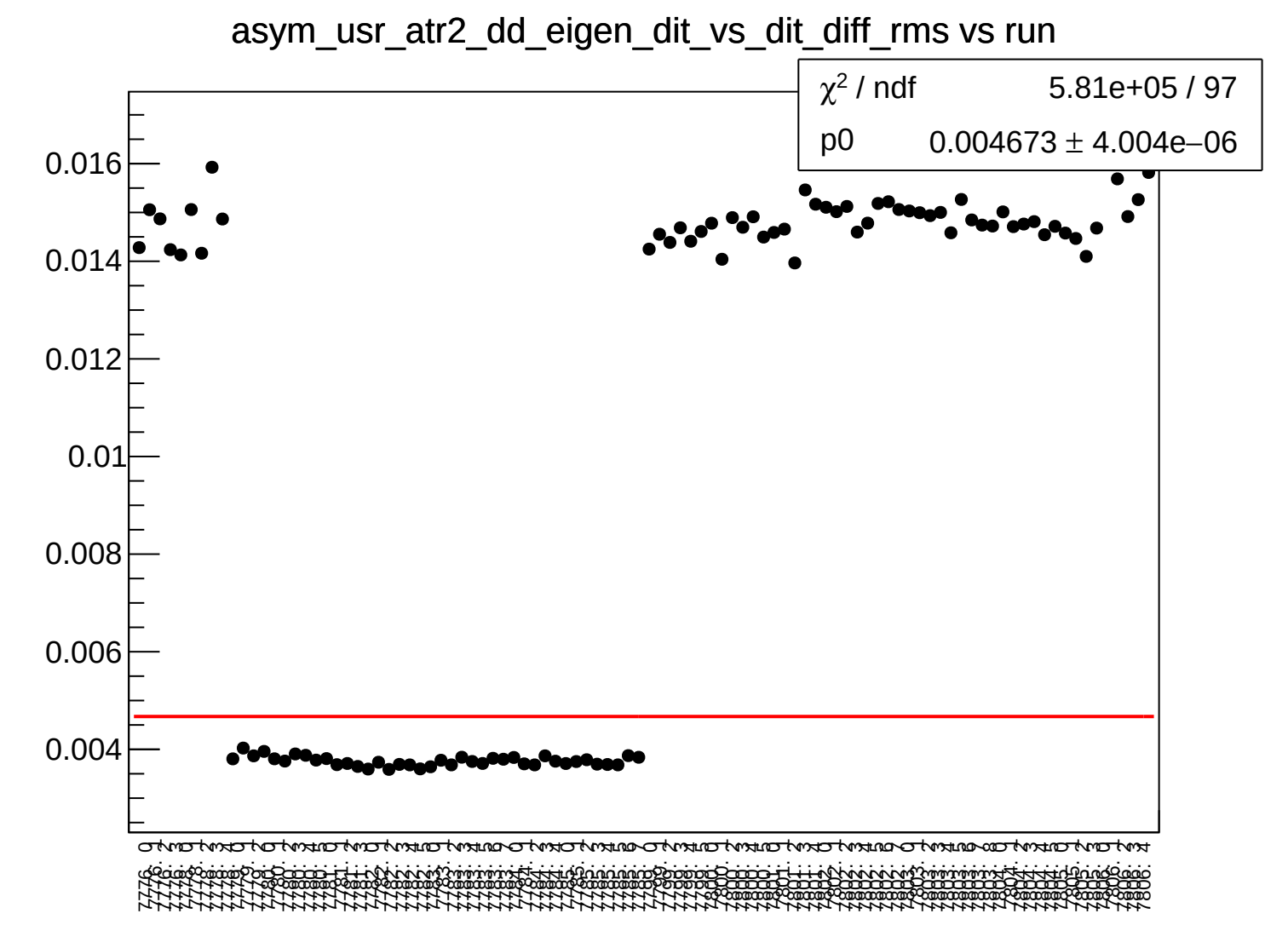

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.67 / 97
p0 0.2638 ± 0.2418
pull
Entries 98
Mean 350.9
Std Dev 0

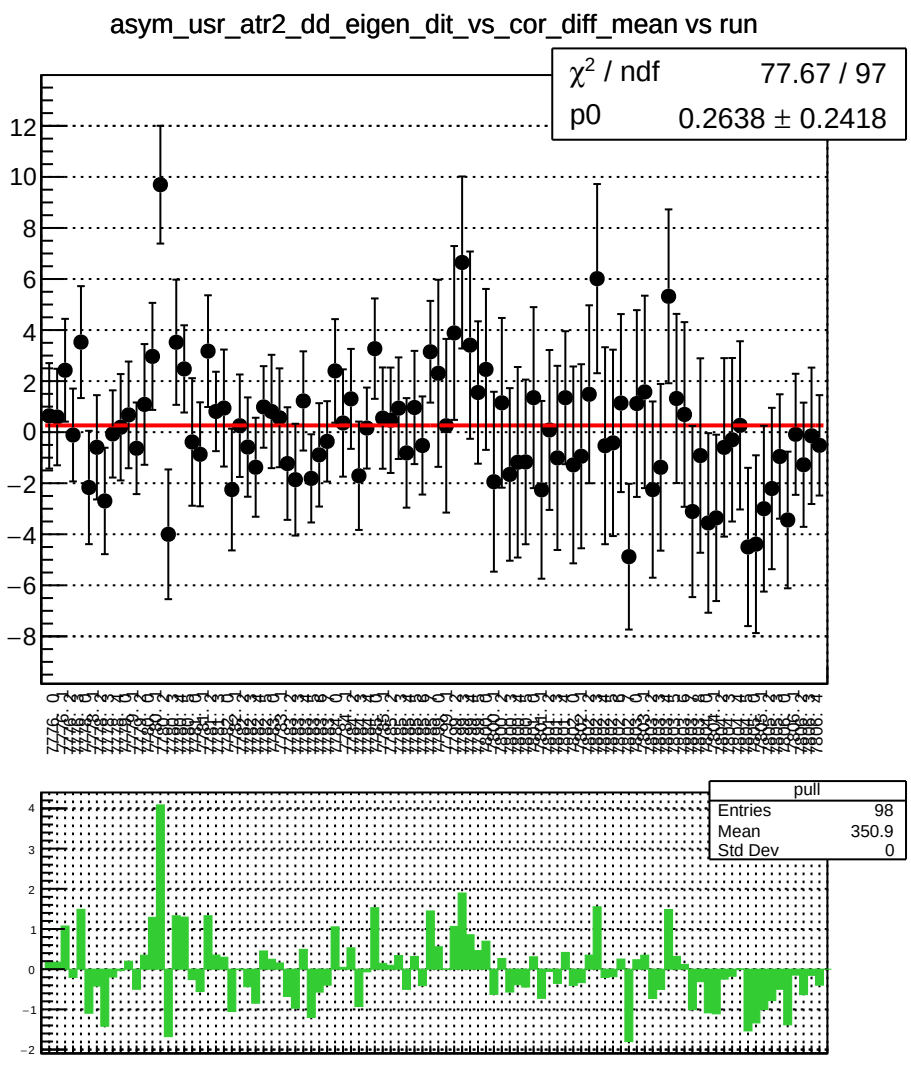

pull1D
Entries 98
Mean −0.02113
Std Dev 0.89

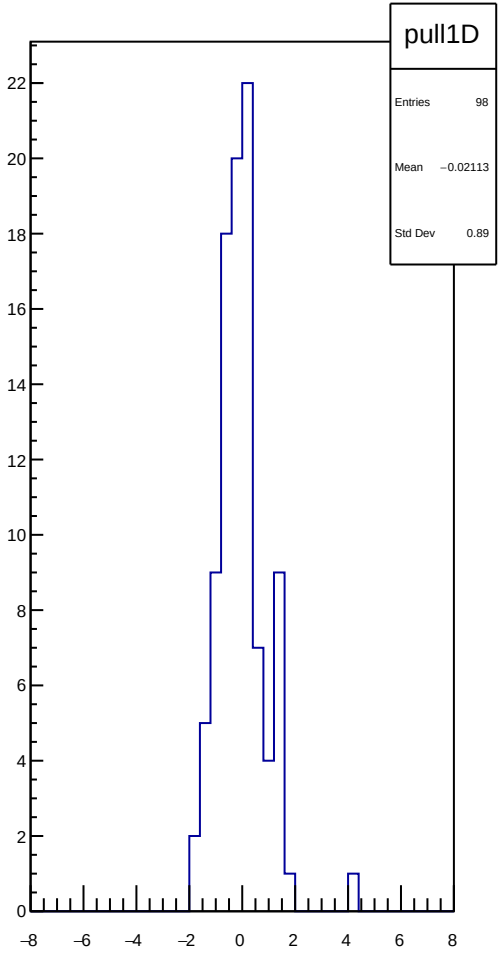

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.097e+05 / 97
p0 231.5 ± 0.171
350
300
250
200
150

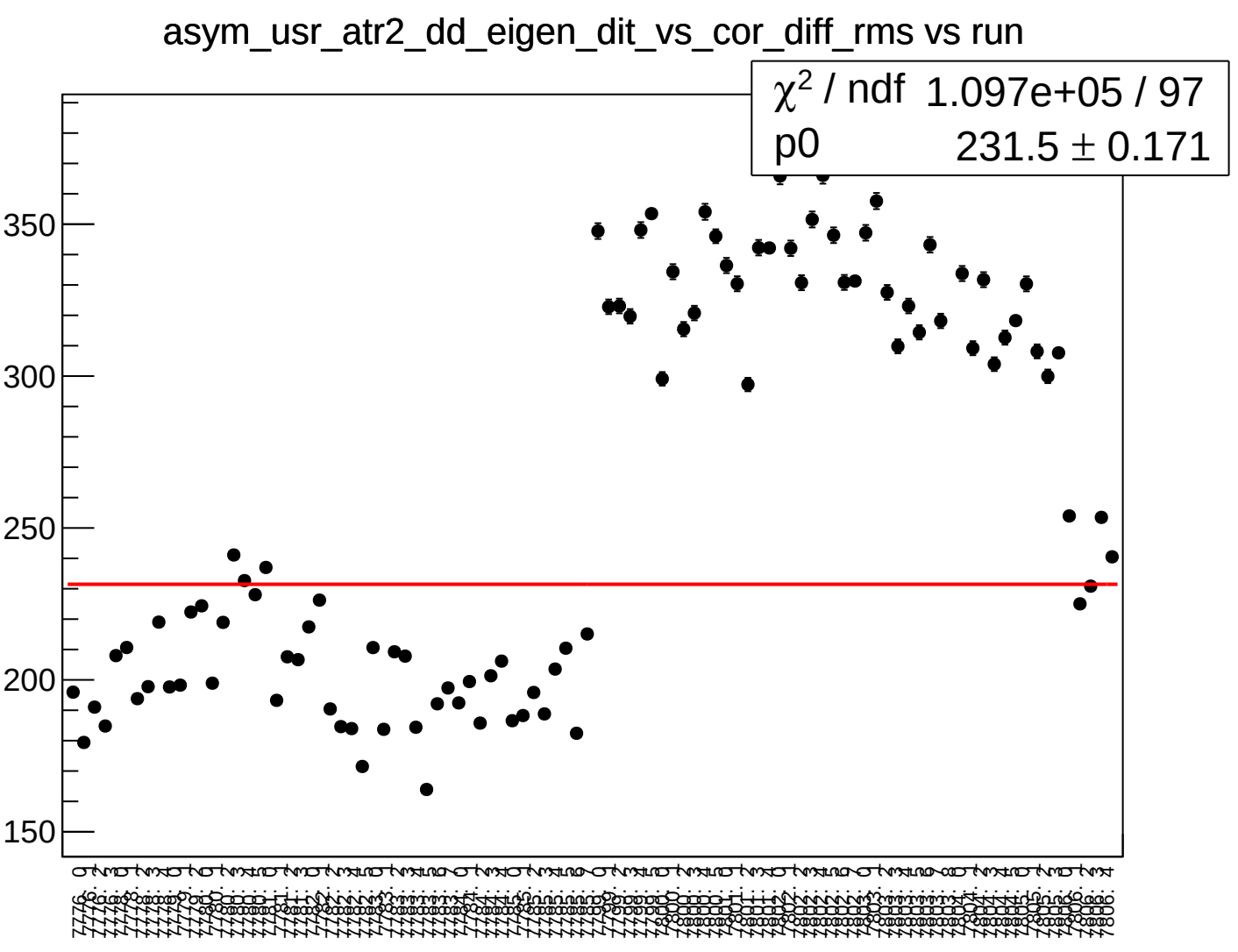

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.46 / 97
p0 −3.616e−06 ± 5.663e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 98
Mean 102.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

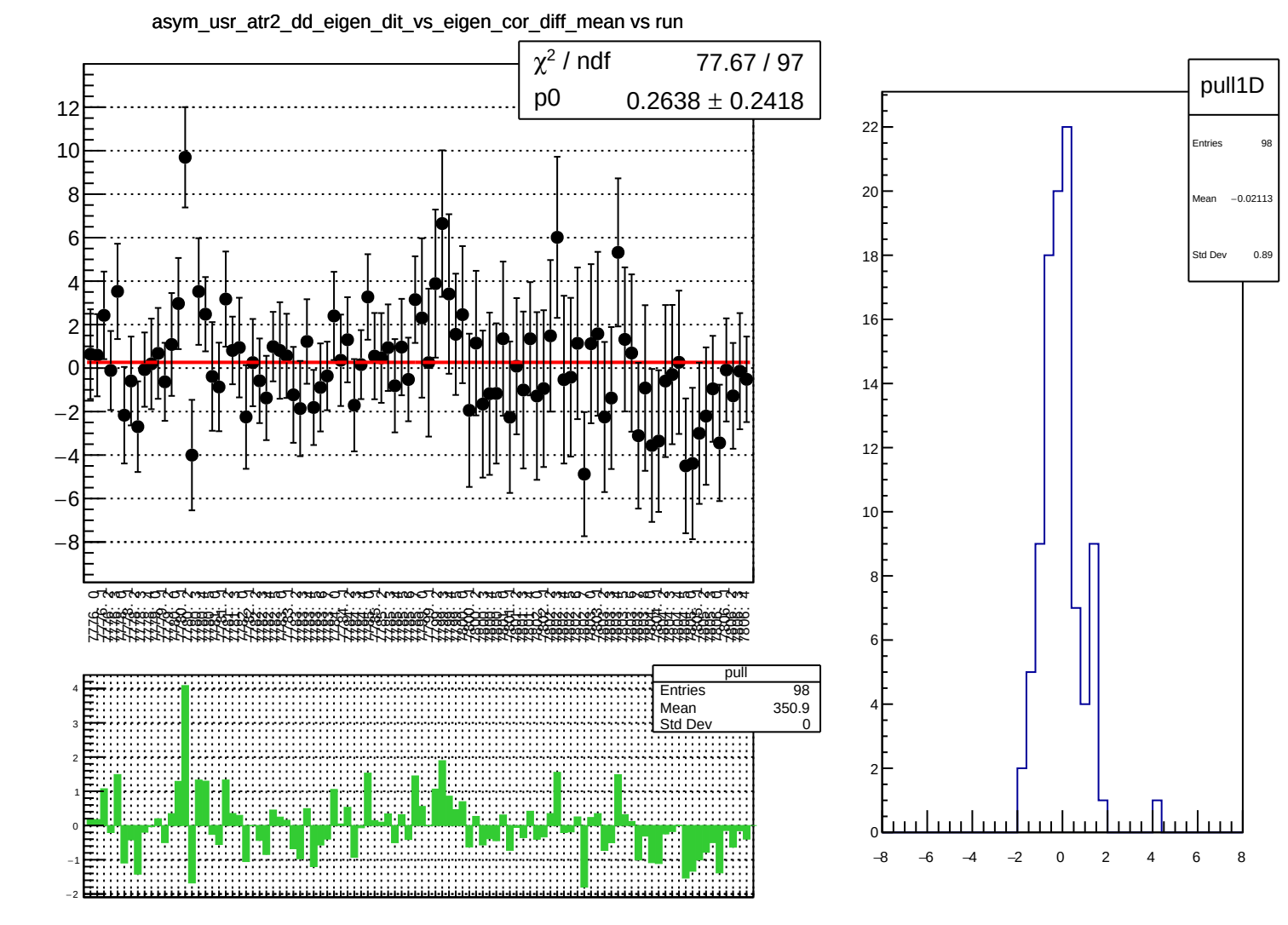

pull1D
Entries 98
Mean −0.03509
Std Dev 0.8651
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

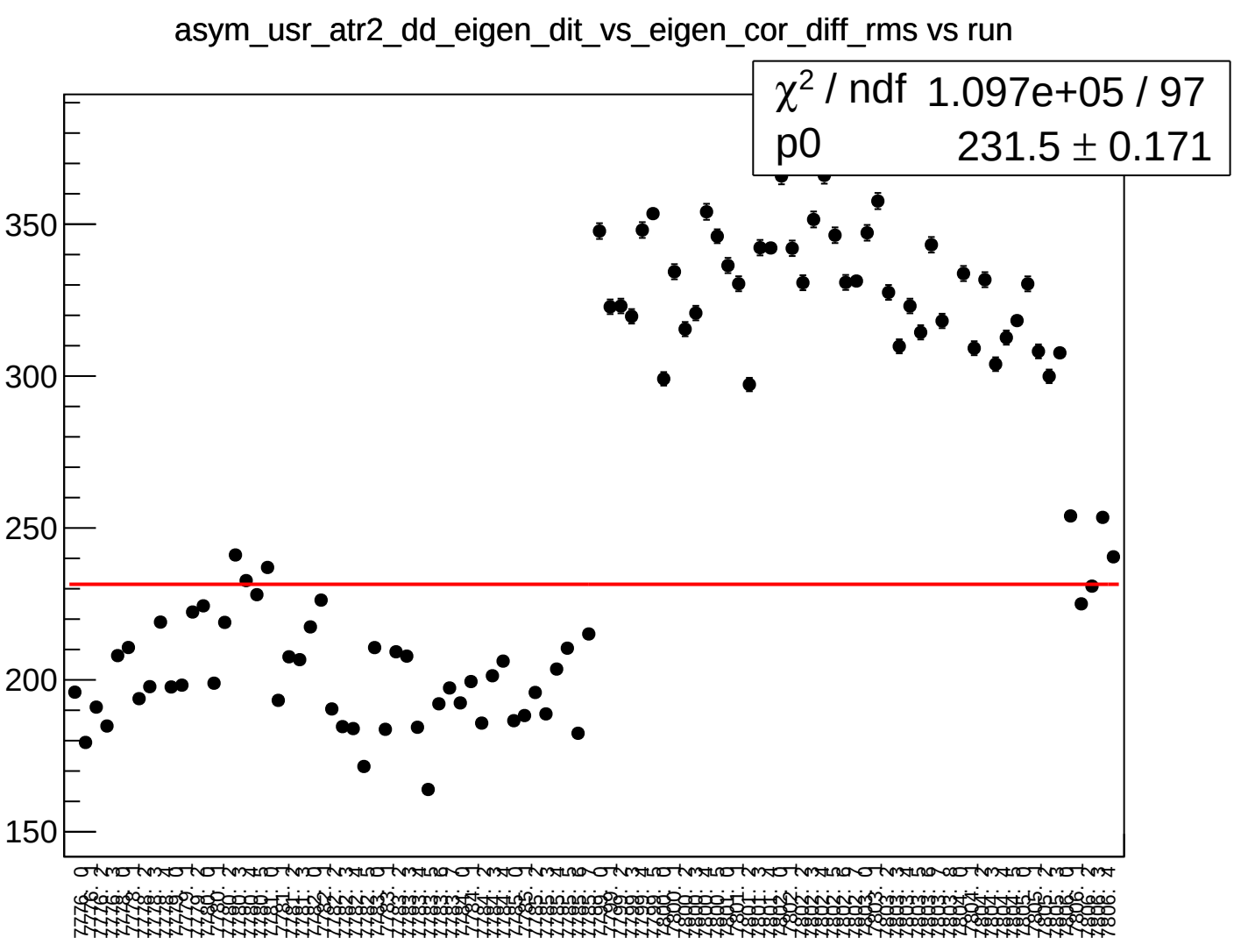

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.81e+05 / 97
p0 0.004673 ± 4.004e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

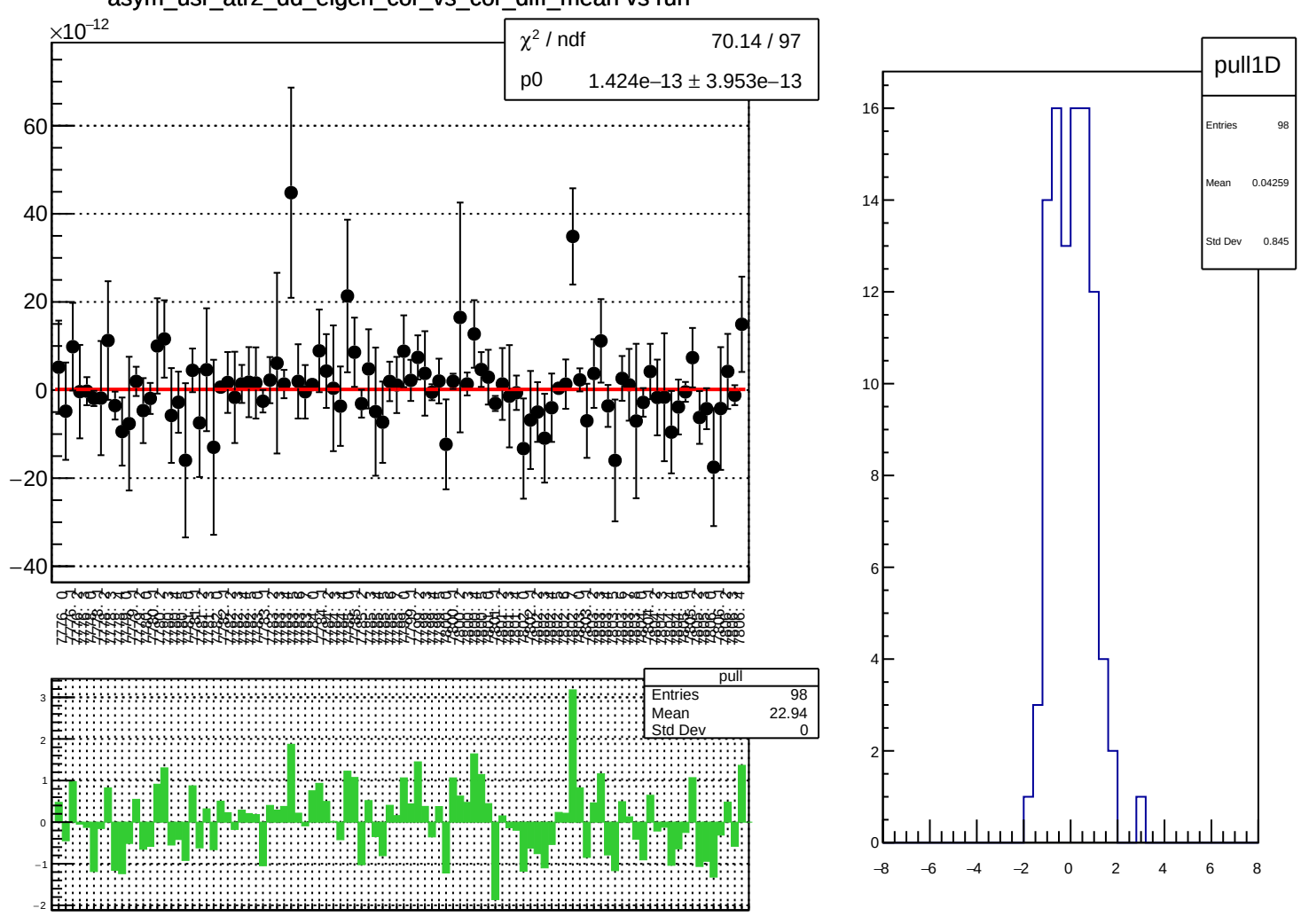

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.67 / 97
p0 0.2638 ± 0.2418
pull
Entries 98
Mean 350.9
Std Dev 0

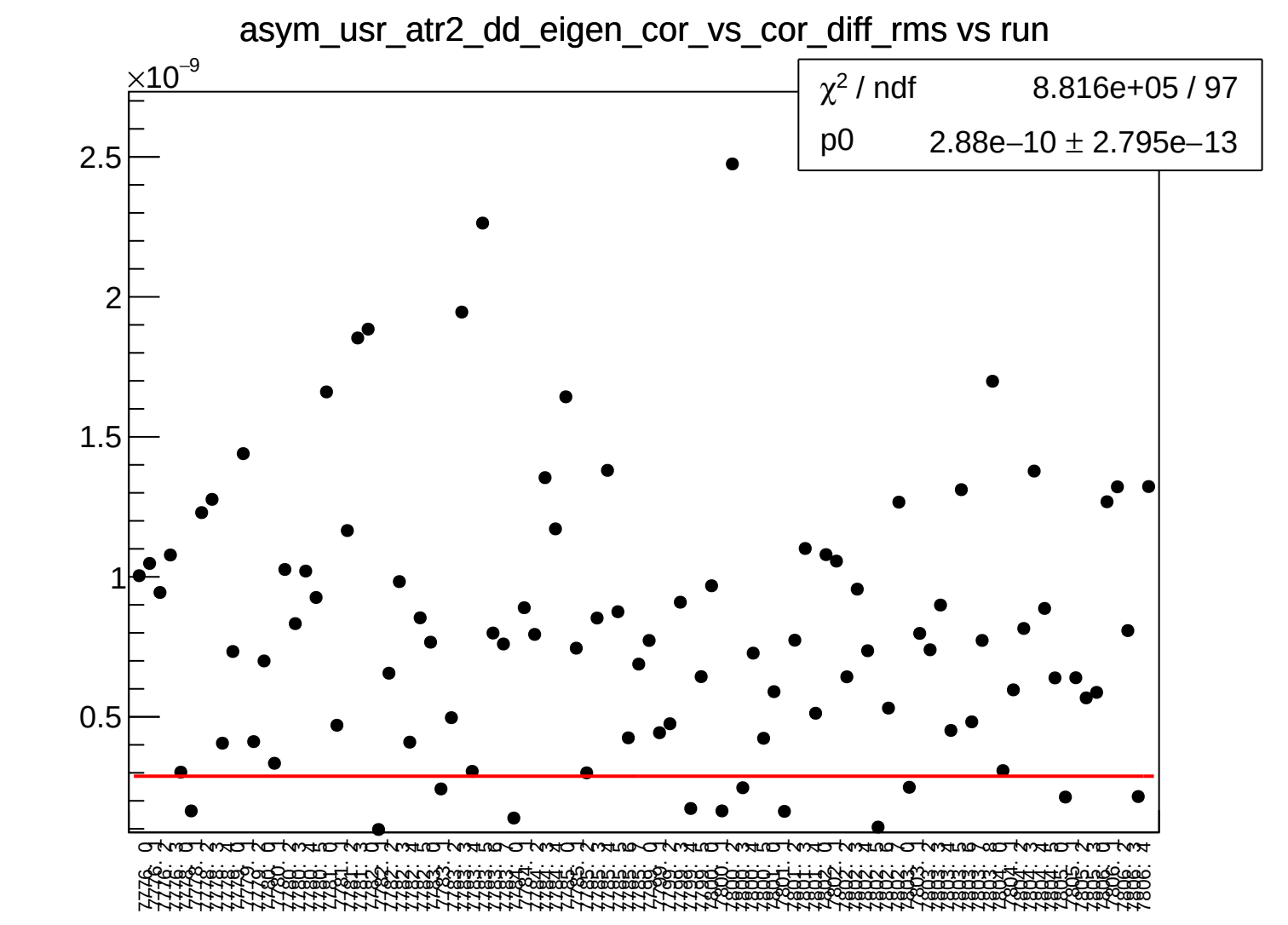

pull1D
Entries 98
Mean −0.02113
Std Dev 0.89

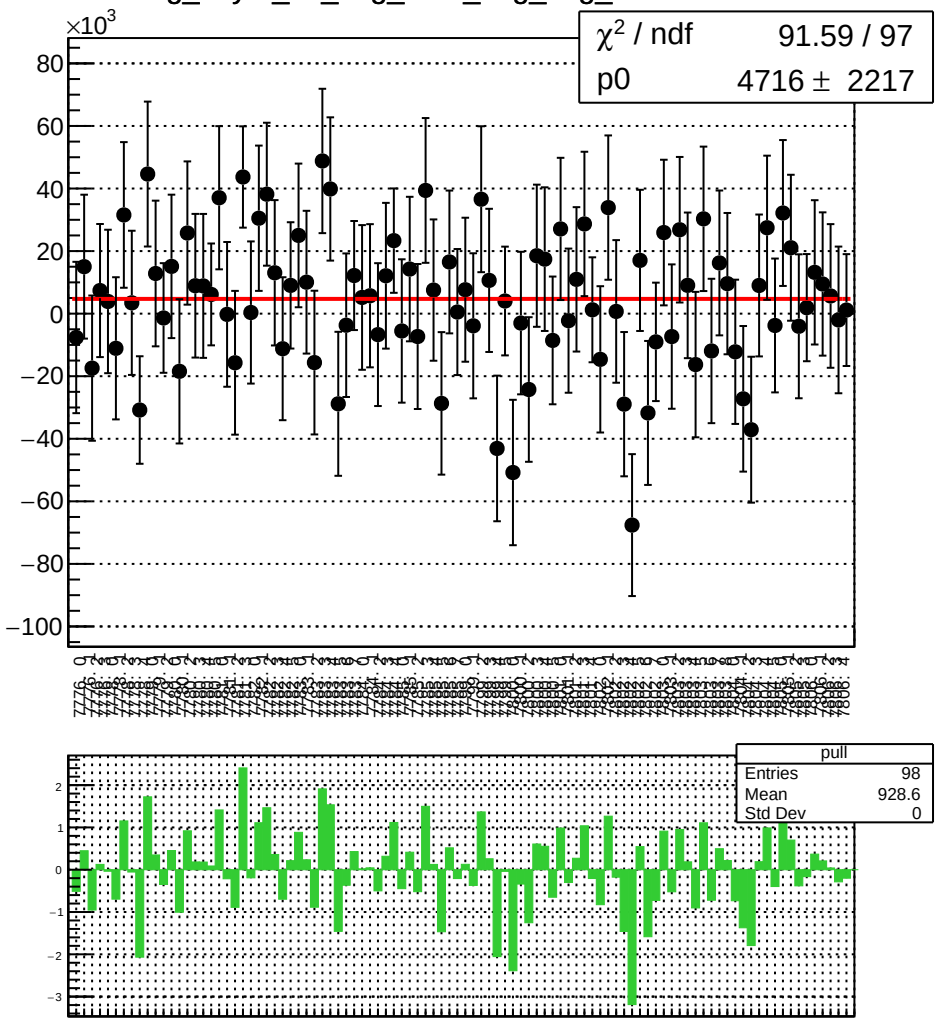

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.097e+05 / 97
p0 231.5 ± 0.171
350
300
250
200
150

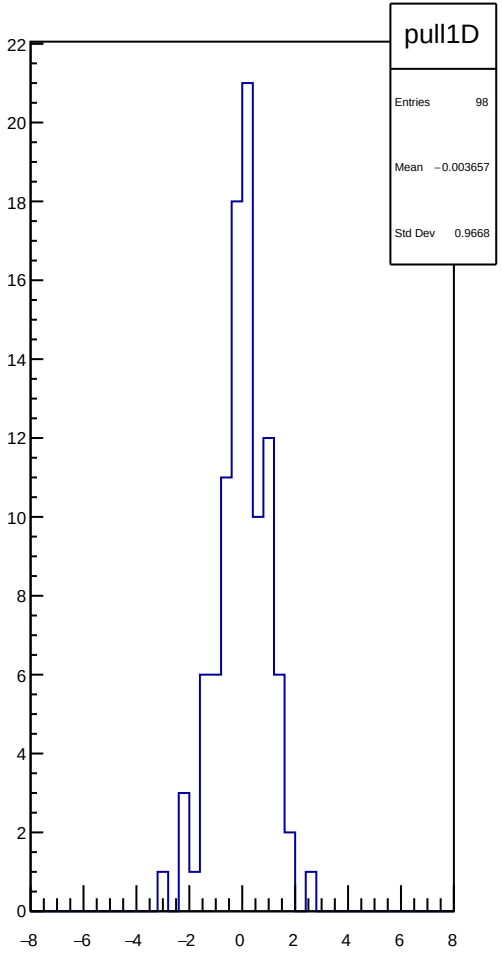

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.67 / 97
p0 0.2638 ± 0.2418
pull
Entries 98
Mean 350.9
Std Dev 0
pull1D
Entries 98
Mean −0.02113
Std Dev 0.89

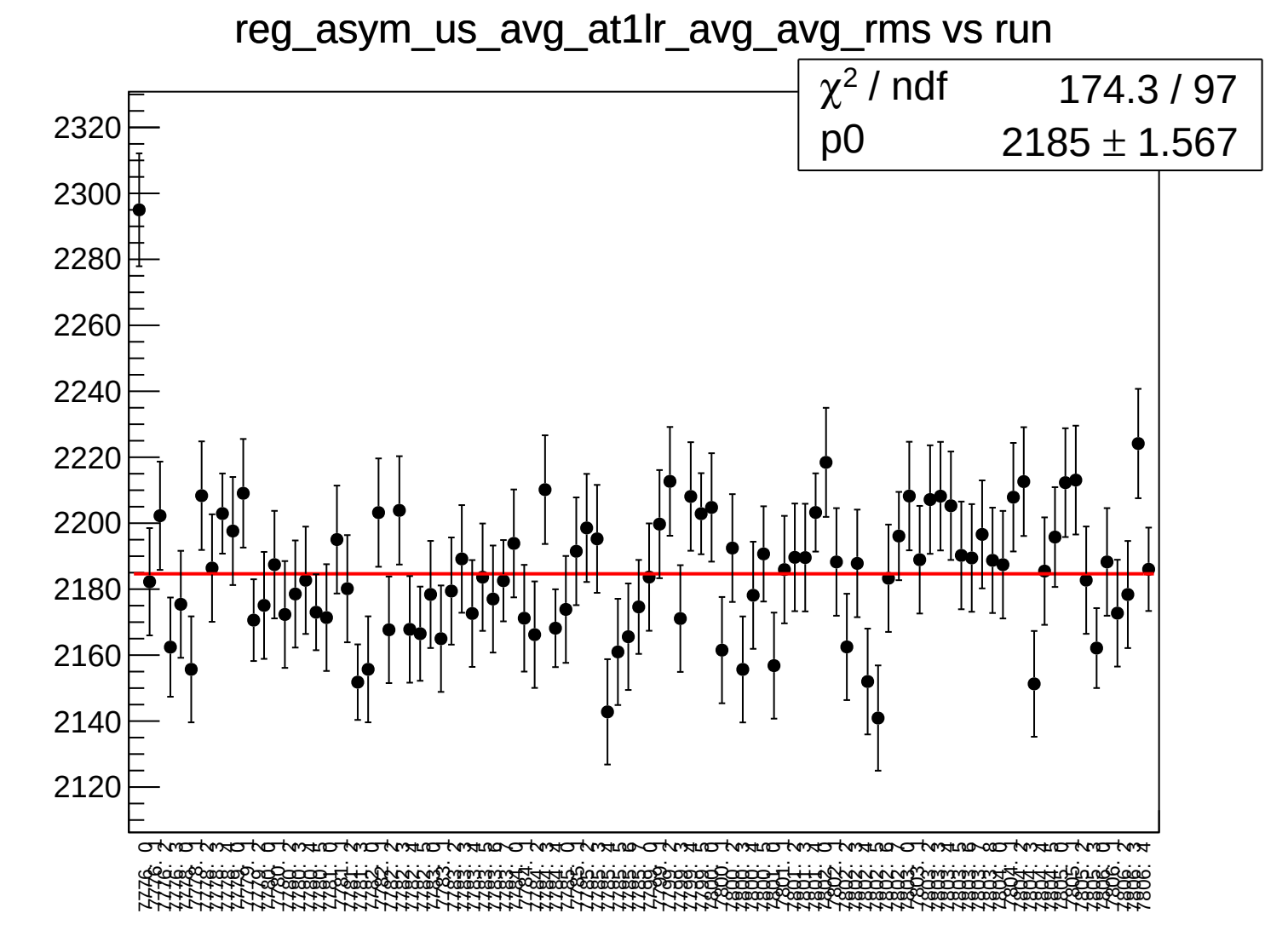

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.097e+05 / 97
p0 231.5 ± 0.171
350
300
250
200
150

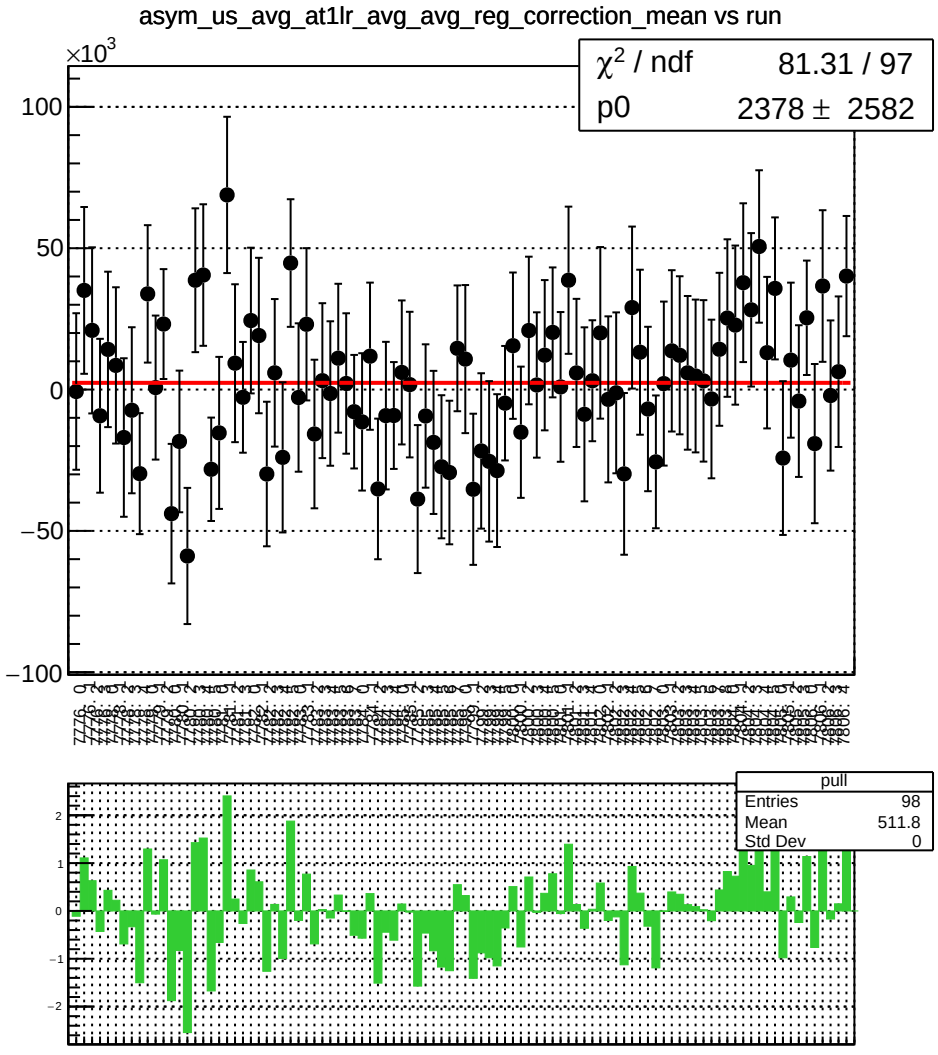

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 70.14 / 97
p0 1.424e−13 ± 3.953e−13
60
40
20
0
−20
−40
pull
Entries 98
Mean 22.94
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.04259
Std Dev 0.845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

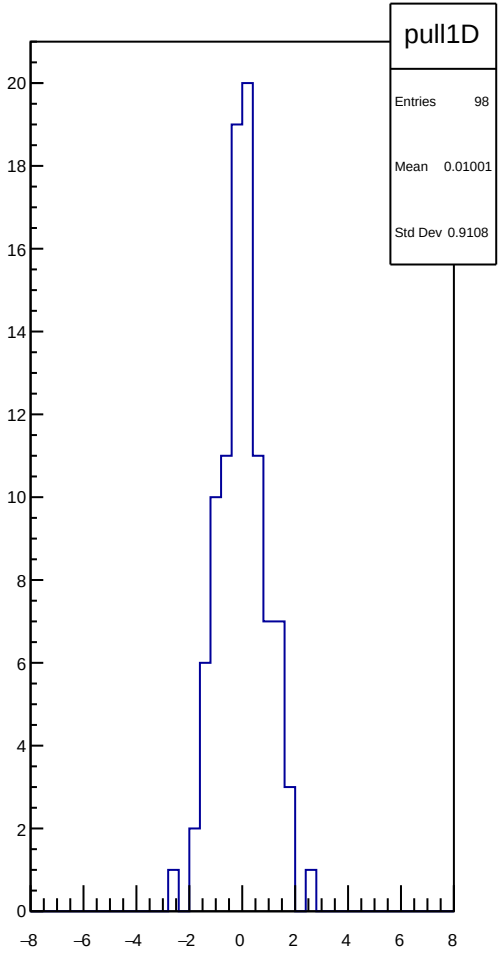

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.816e+05 / 97
p0 2.88e−10 ± 2.795e−13
2.5
2
1.5
1
0.5

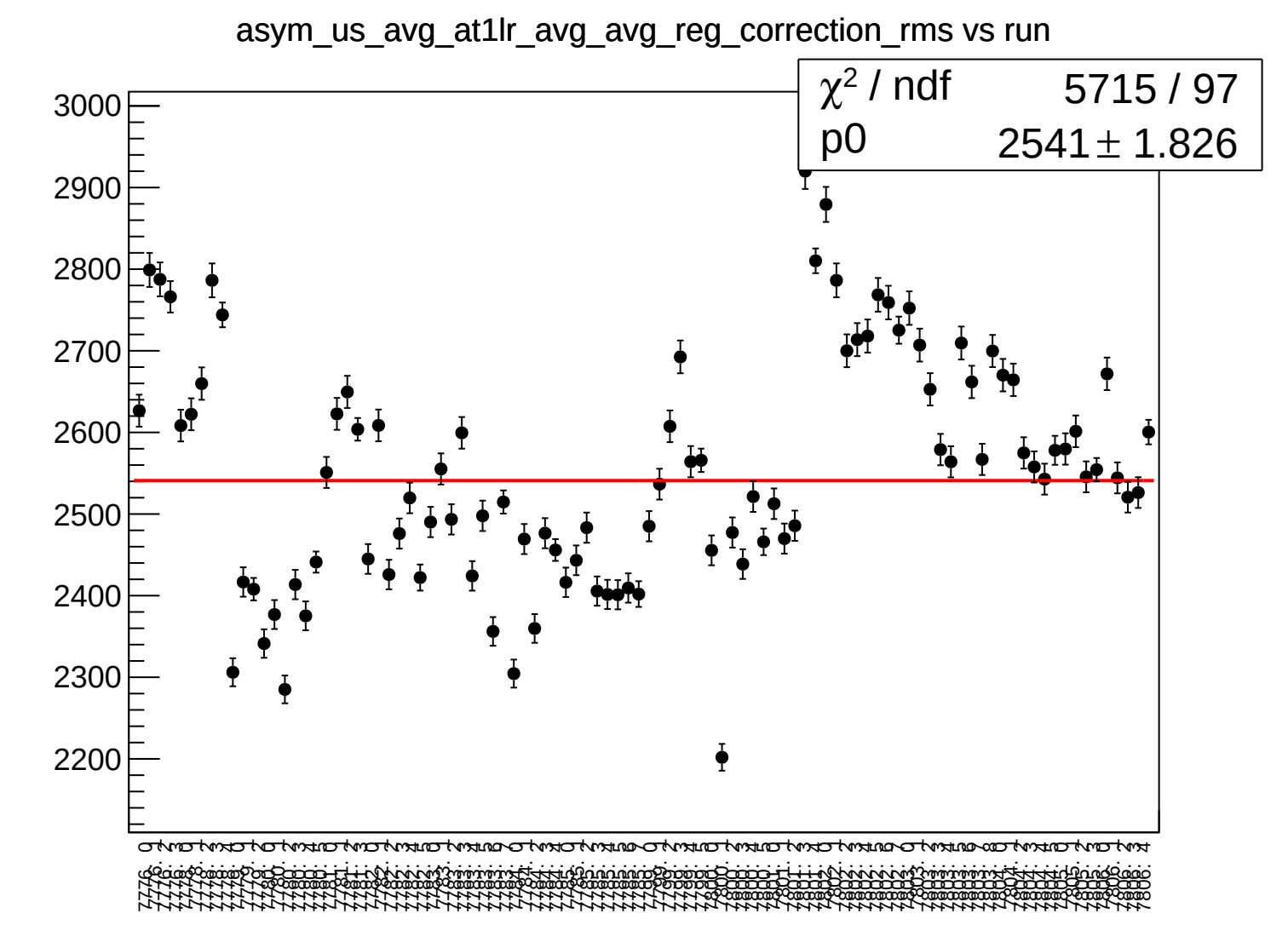

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 91.59 / 97
p0 4716 ± 2217
pull
Entries 98
Mean 928.6
Std Dev 0

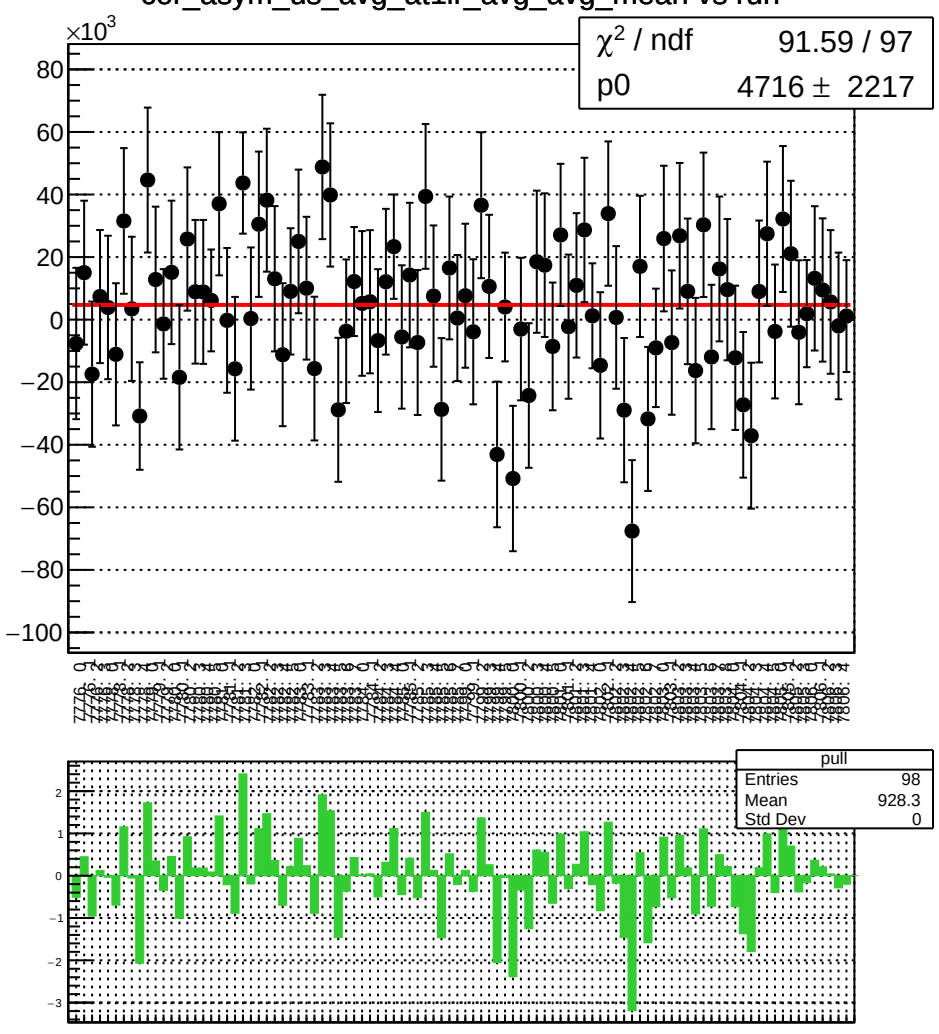

pull1D
Entries 98
Mean −0.003657
Std Dev 0.9668

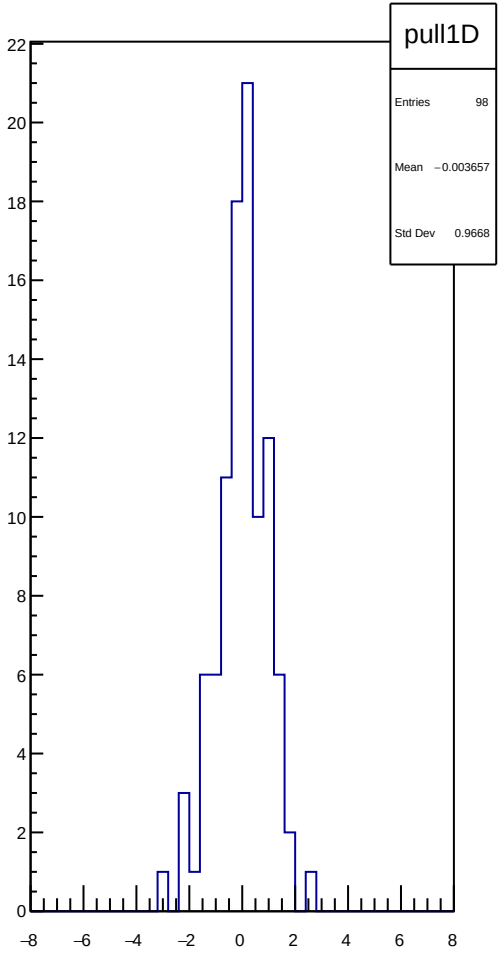

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 174.3 / 97
p0 2185 ± 1.567
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

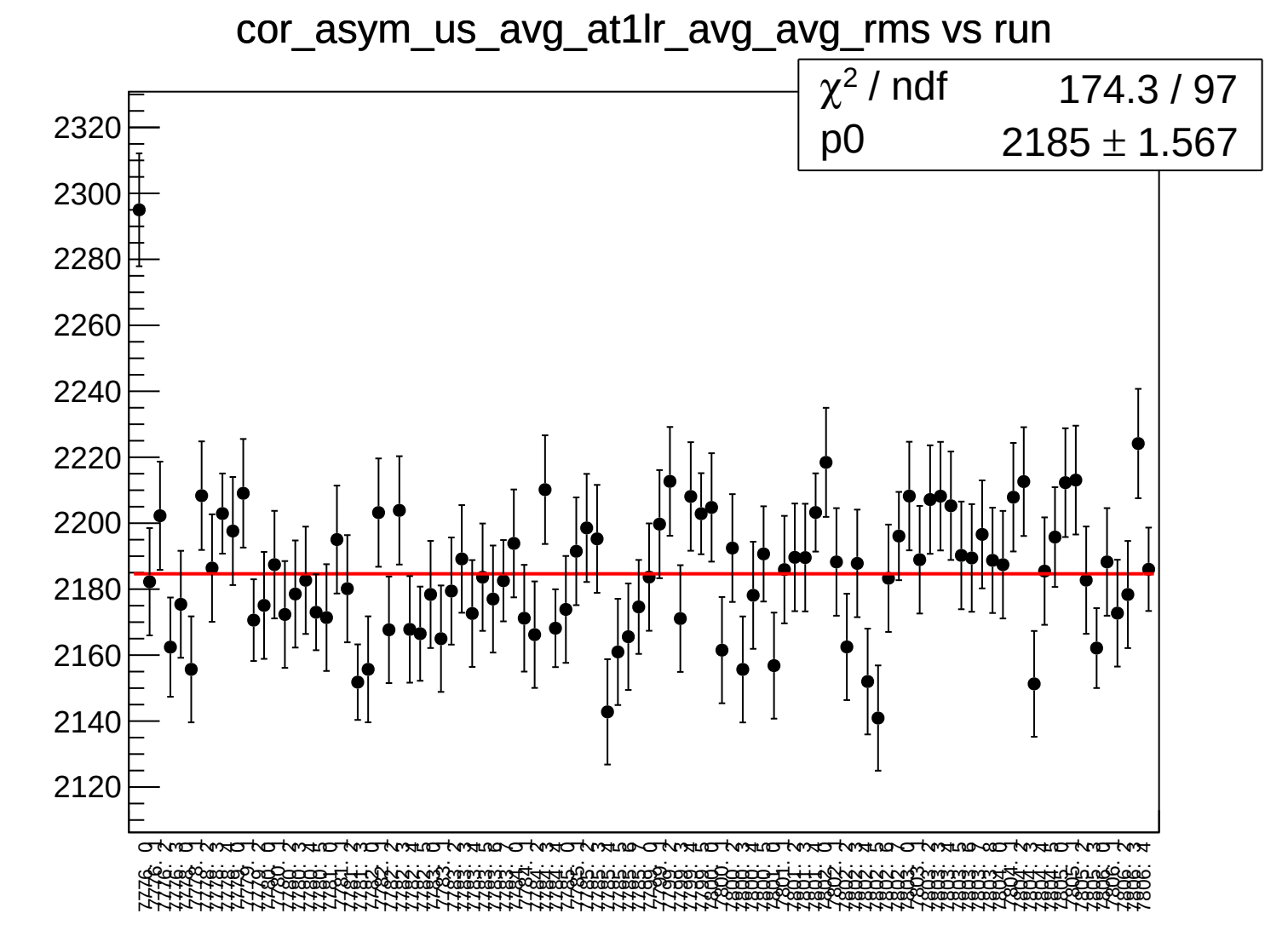

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.31 / 97
p0 2378 ± 2582
100
50
0
−50
−100
pull
Entries 98
Mean 511.8
Std Dev 0
2
1
0
−1
−2

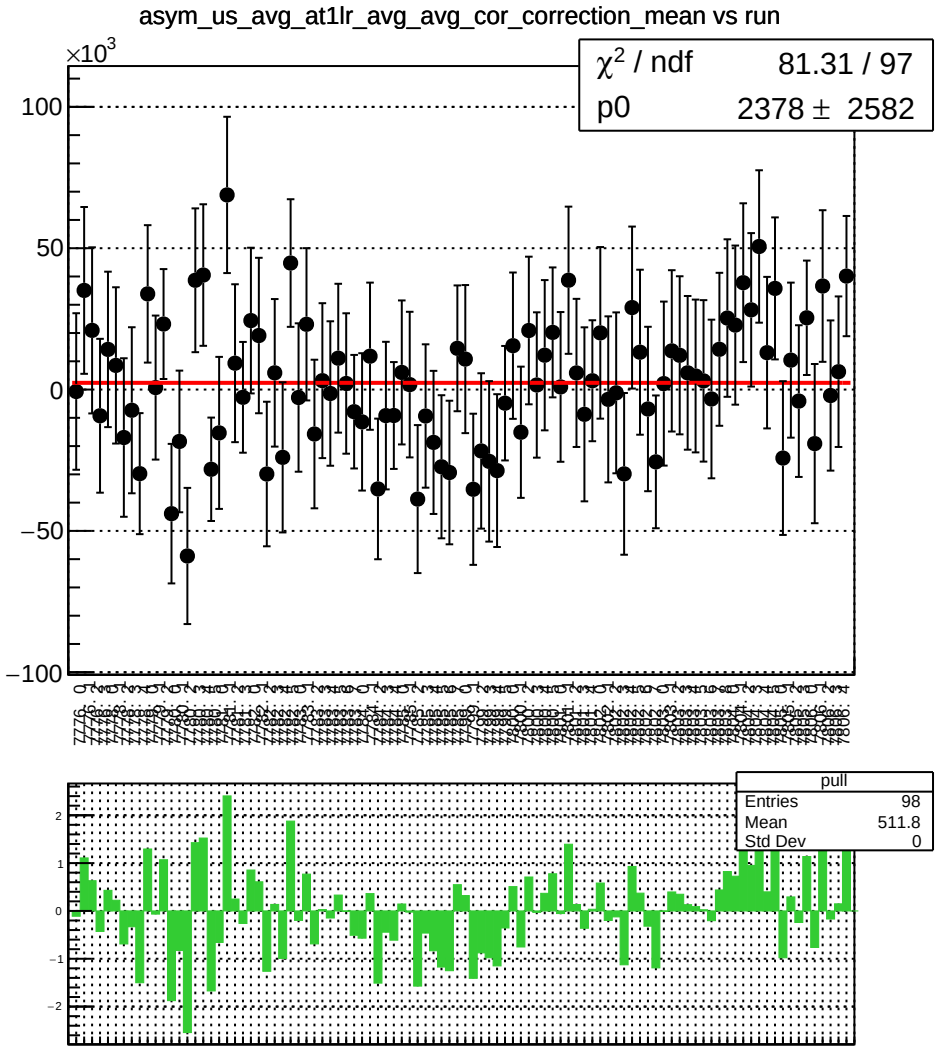

pull1D
Entries 98
Mean 0.01001
Std Dev 0.9108
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

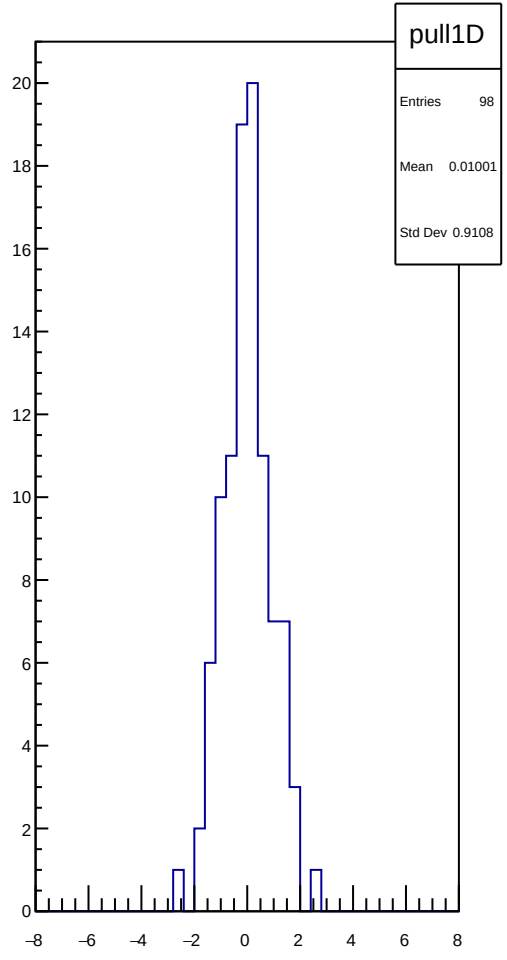

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 5715 / 97
p0 2541 ± 1.826
3000
2900
2800
2700
2600
2500
2400
2300
2200

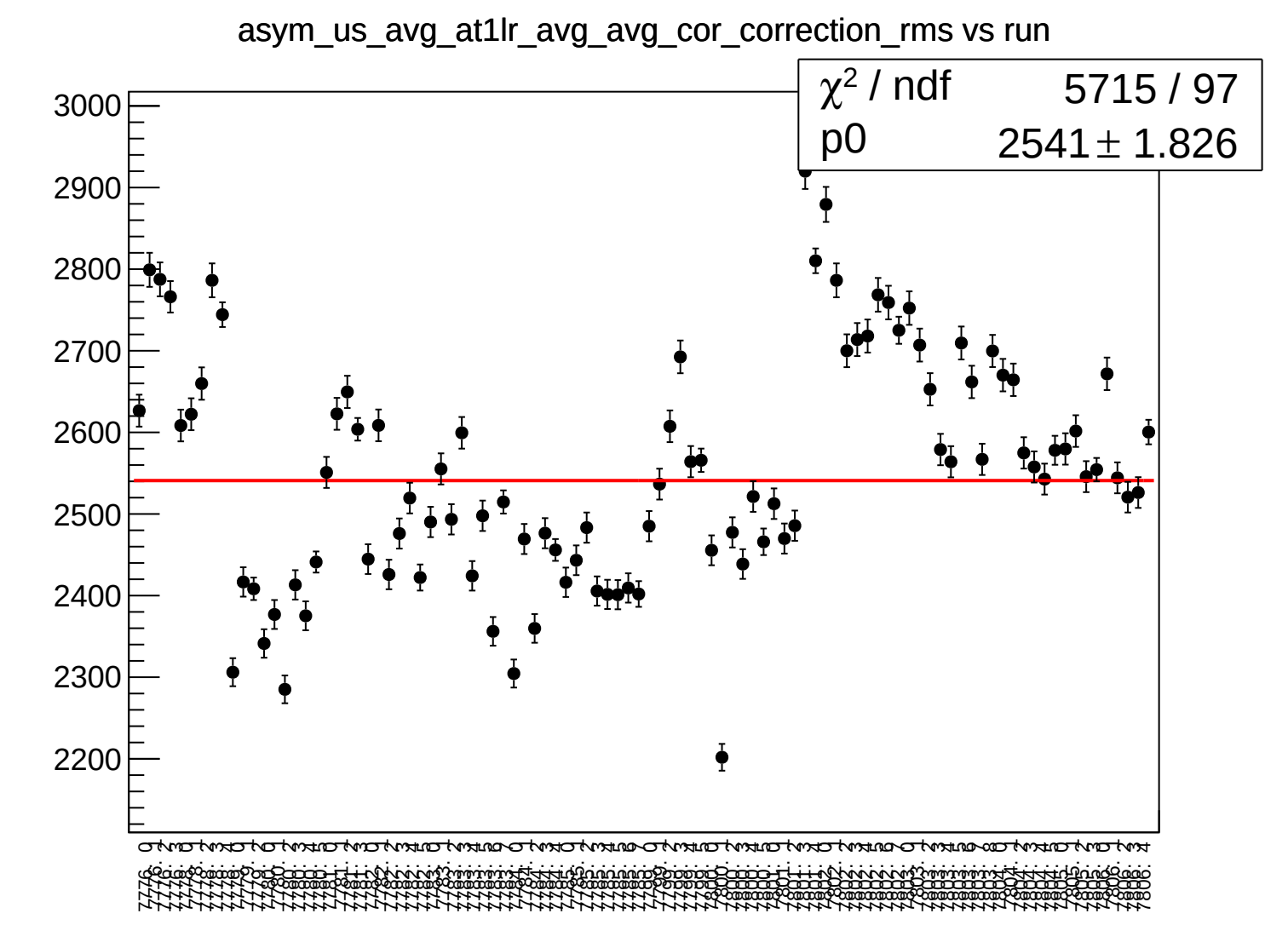

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 91.59 / 97
p0 4716 ± 2217
pull
Entries 98
Mean 928.3
Std Dev 0

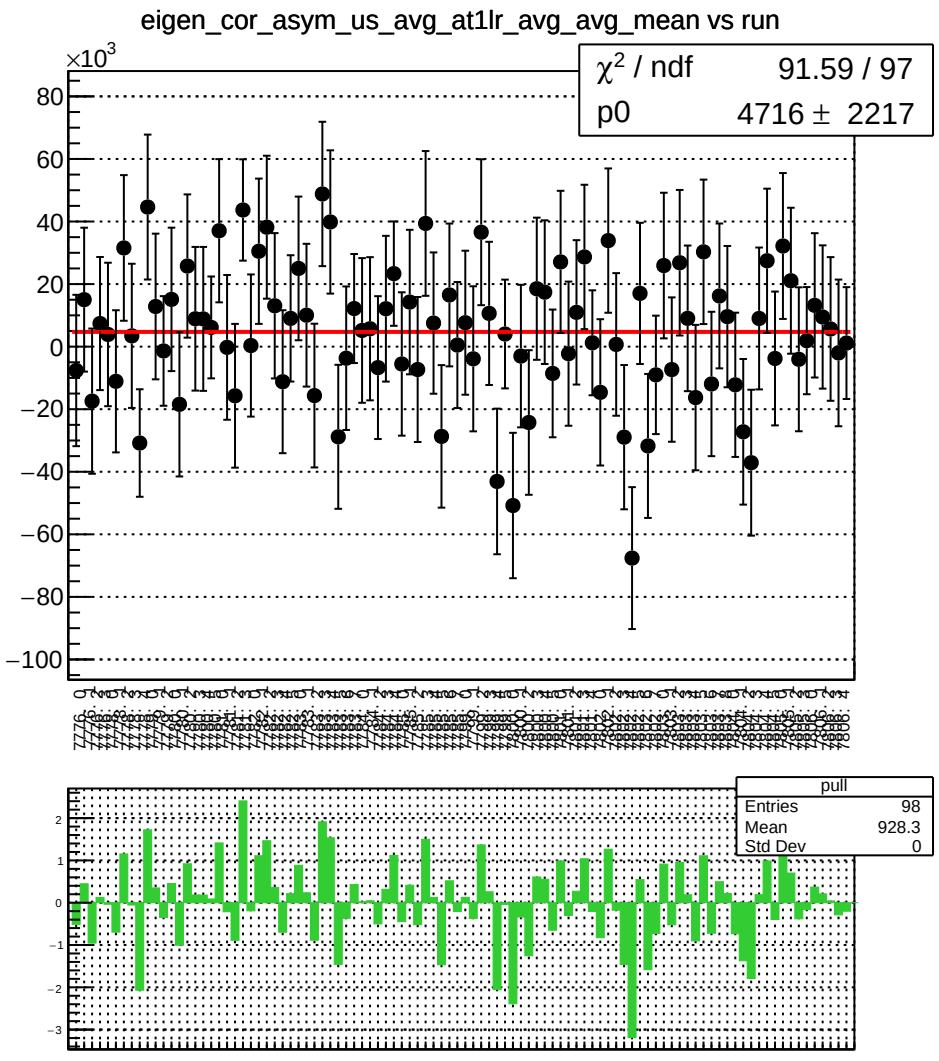

pull1D
Entries 98
Mean −0.003657
Std Dev 0.9668

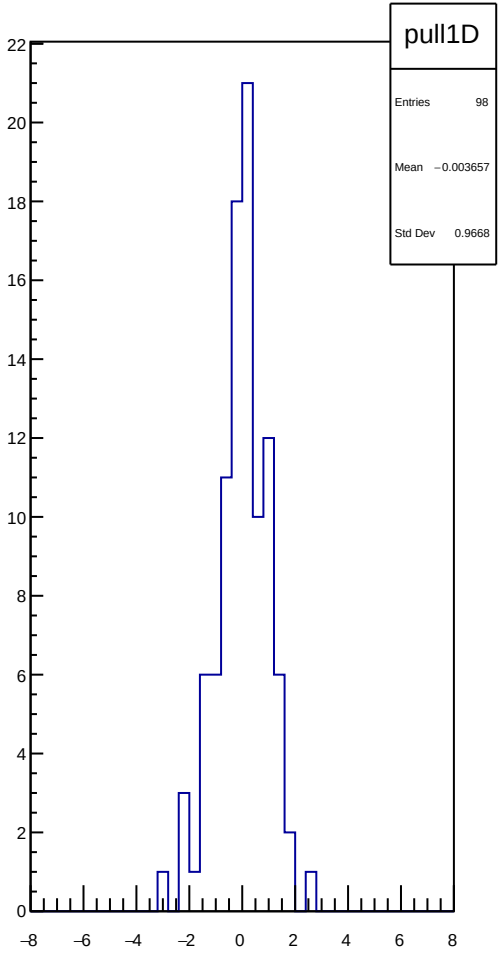

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 174.3 / 97
p0 2185 ± 1.567
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

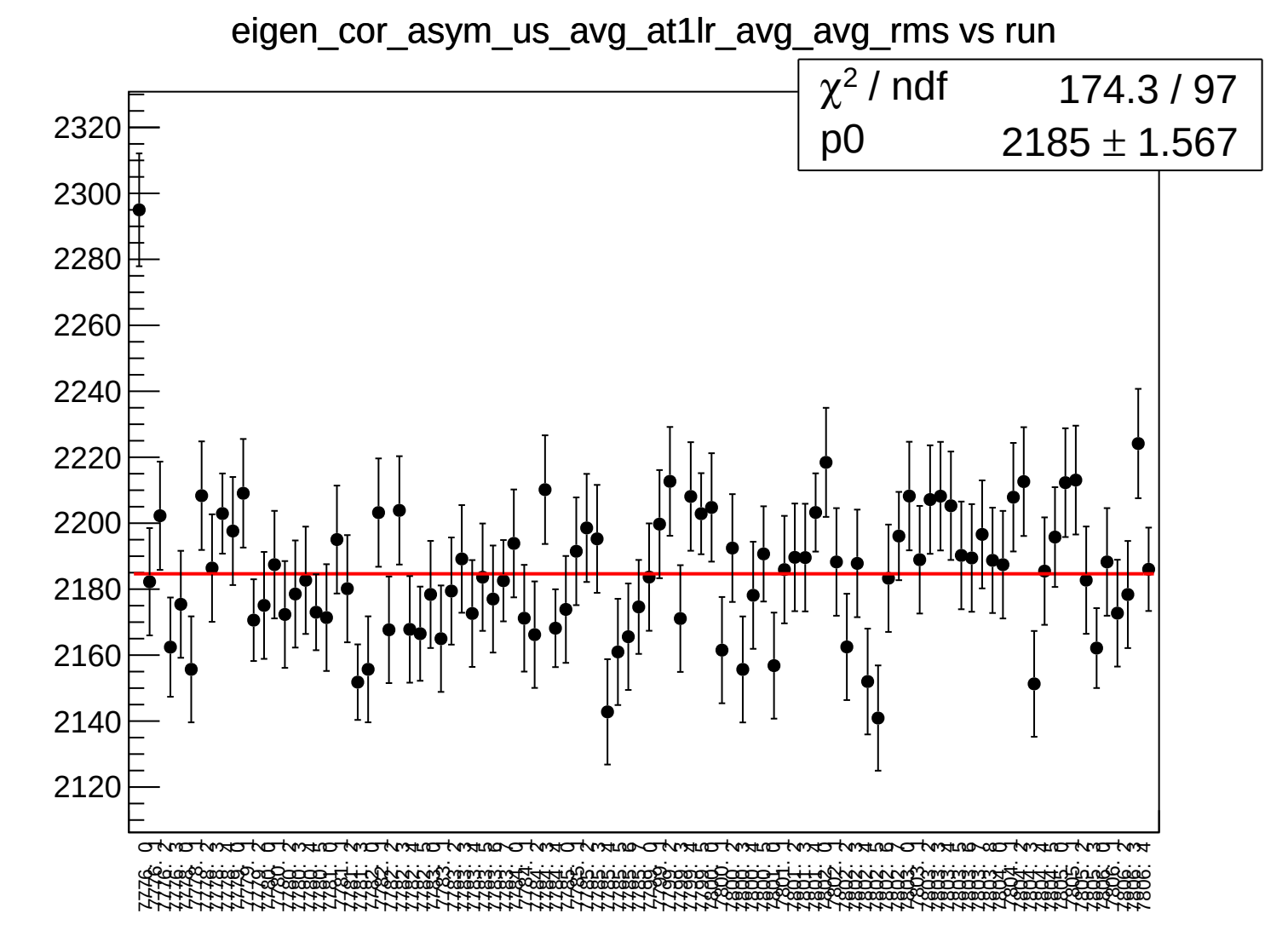

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.31 / 97
p0 2378 ± 2582
100
50
0
−50
−100
pull
Entries 98
Mean 511.8
Std Dev 0
2
1
0
−1
−2

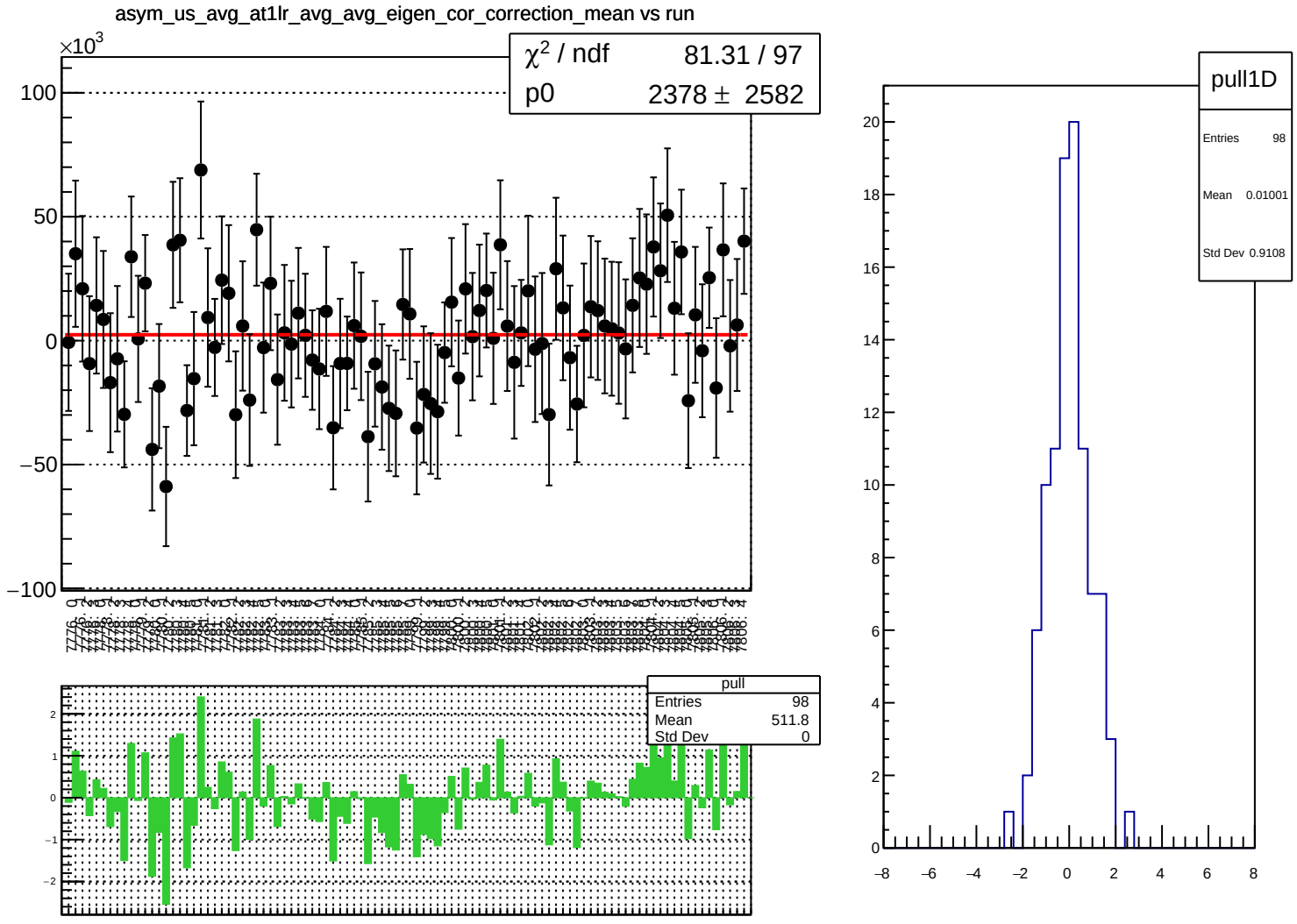

pull1D
Entries 98
Mean 0.01001
Std Dev 0.9108
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

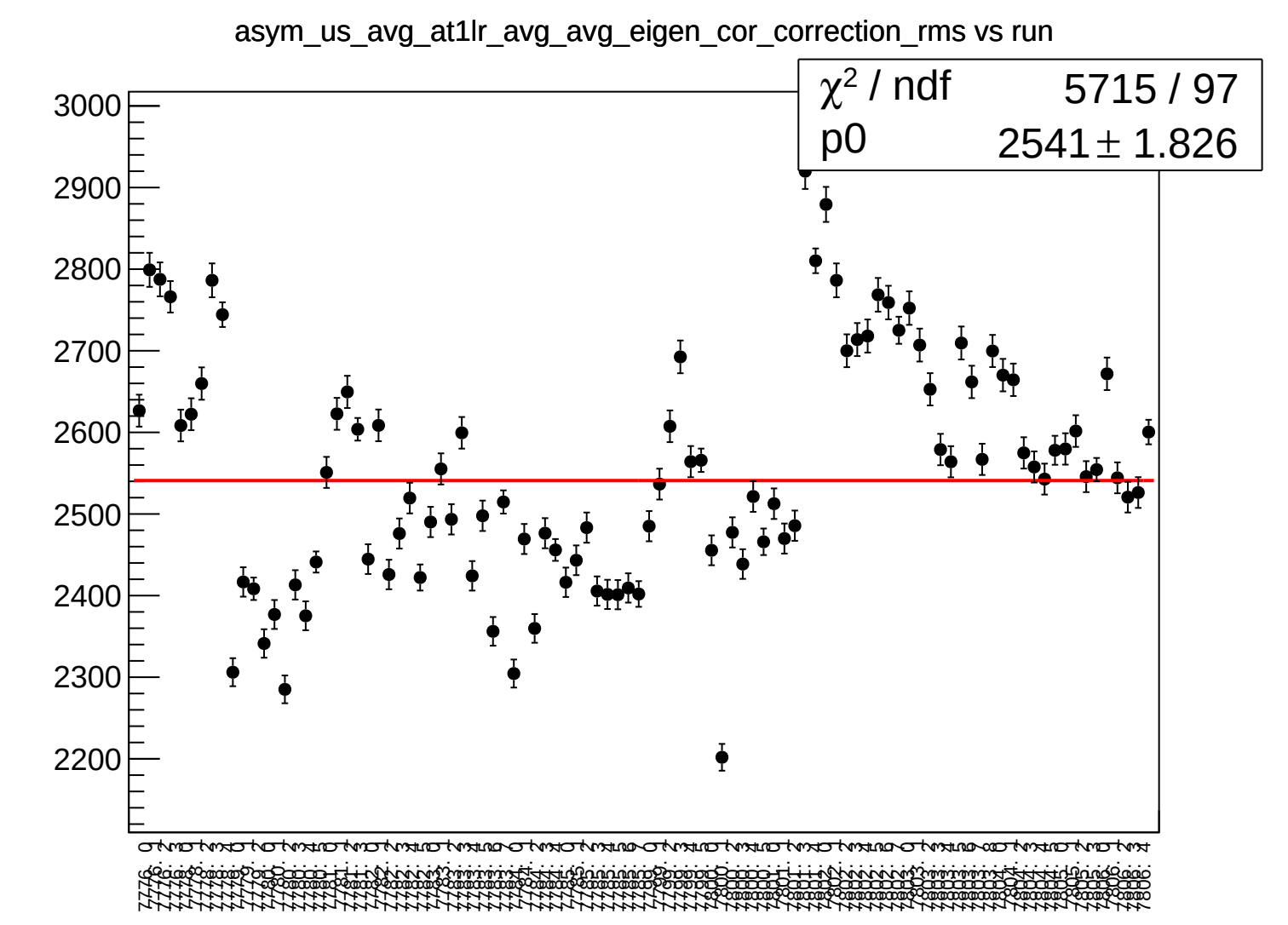

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 5715 / 97
p0 2541 ± 1.826
3000
2900
2800
2700
2600
2500
2400
2300
2200

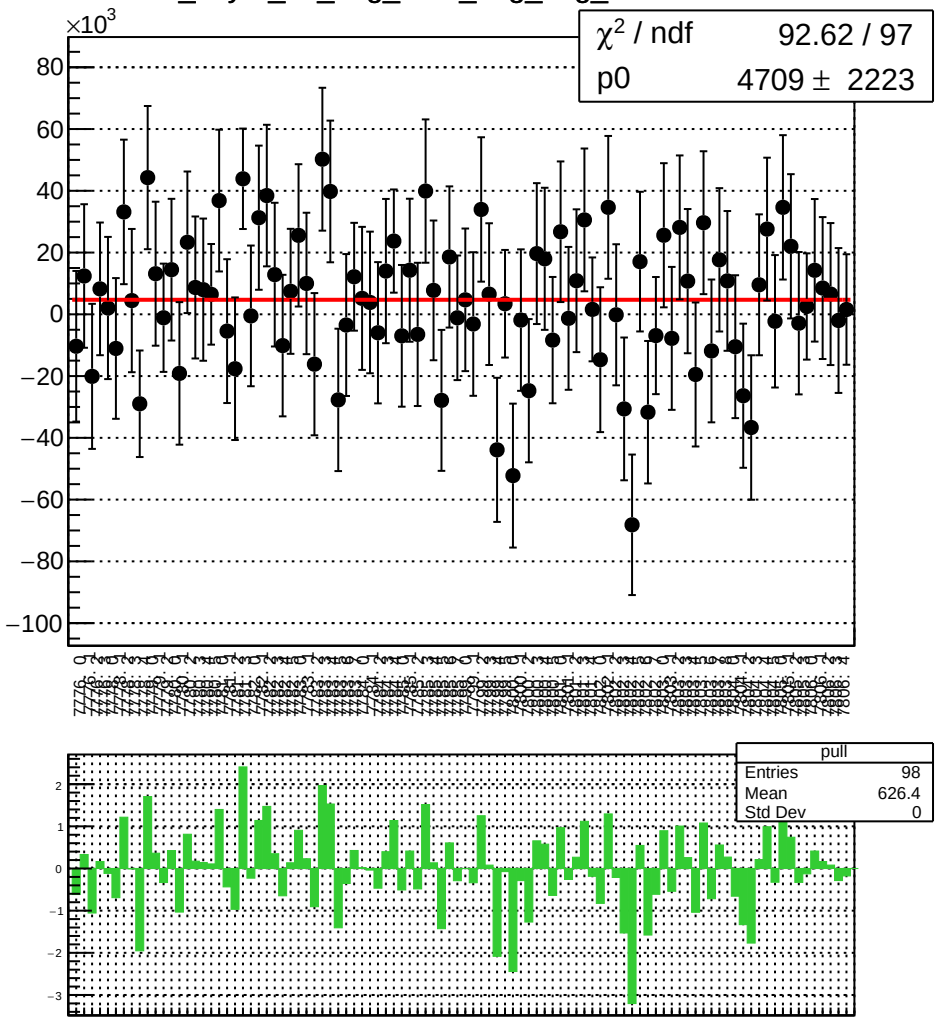

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 91.59 / 97
p0 4716 ± 2217
pull
Entries 98
Mean 928.3
Std Dev 0

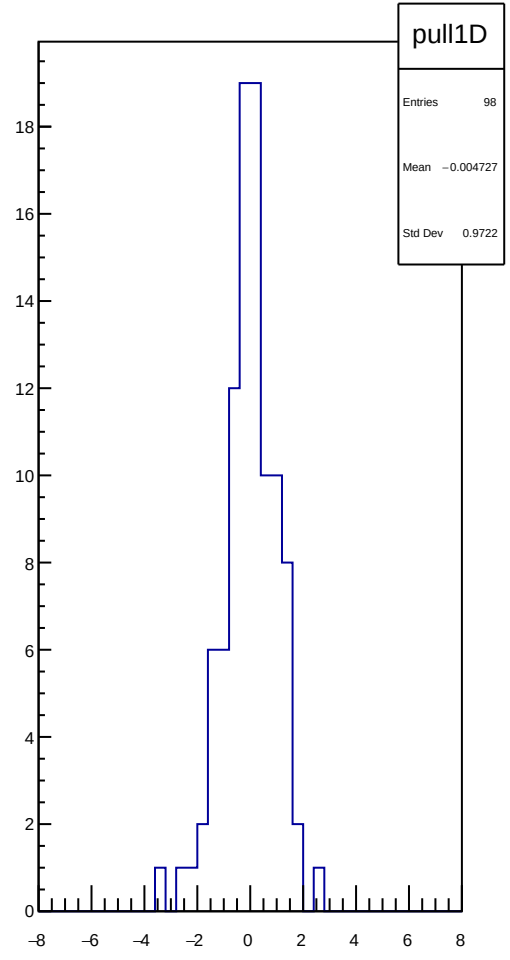

pull1D
Entries 98
Mean −0.003657
Std Dev 0.9668

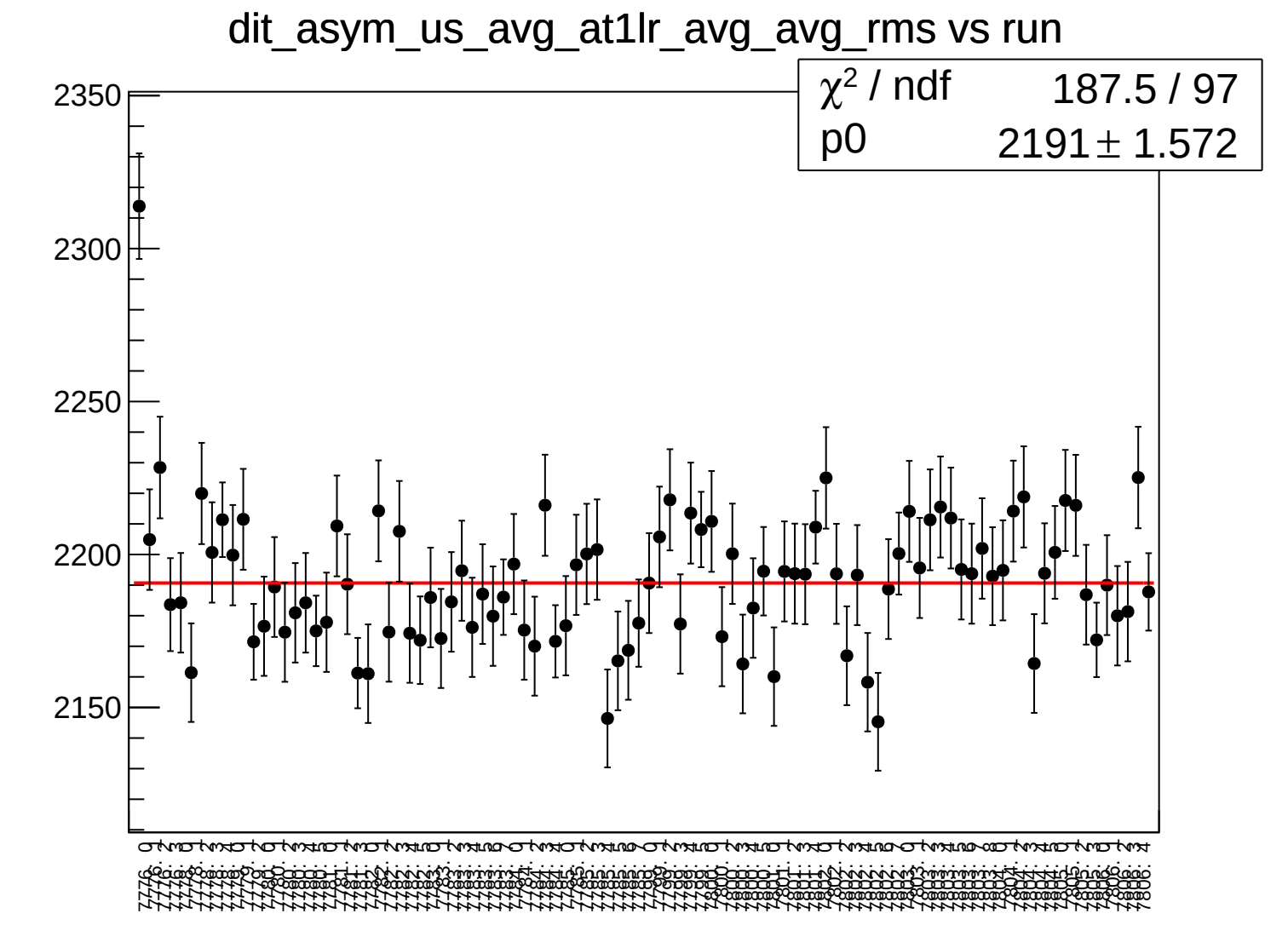

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 174.3 / 97
p0 2185 ± 1.567
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

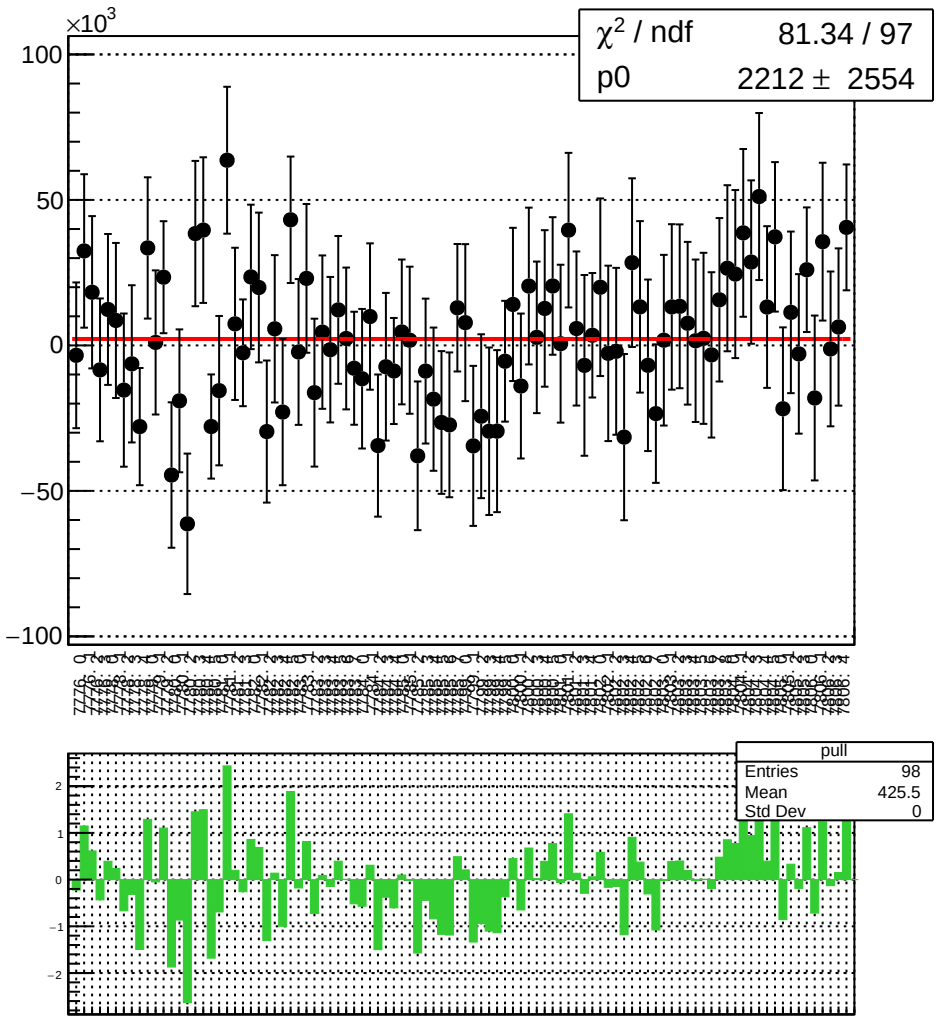

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.31 / 97
p0 2378 ± 2582
100
50
0
−50
−100
pull
Entries 98
Mean 511.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01001
Std Dev 0.9108
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

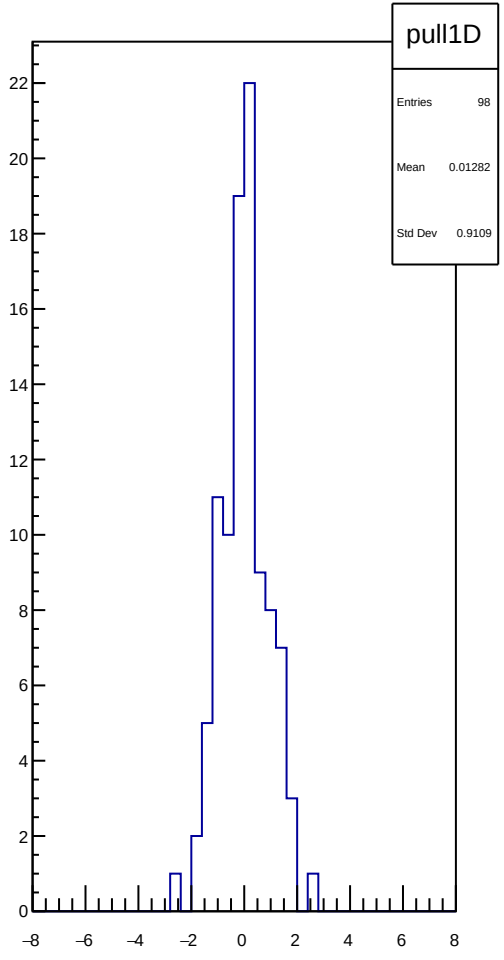

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5715 / 97
p0 2541 ± 1.826
3000
2900
2800
2700
2600
2500
2400
2300
2200

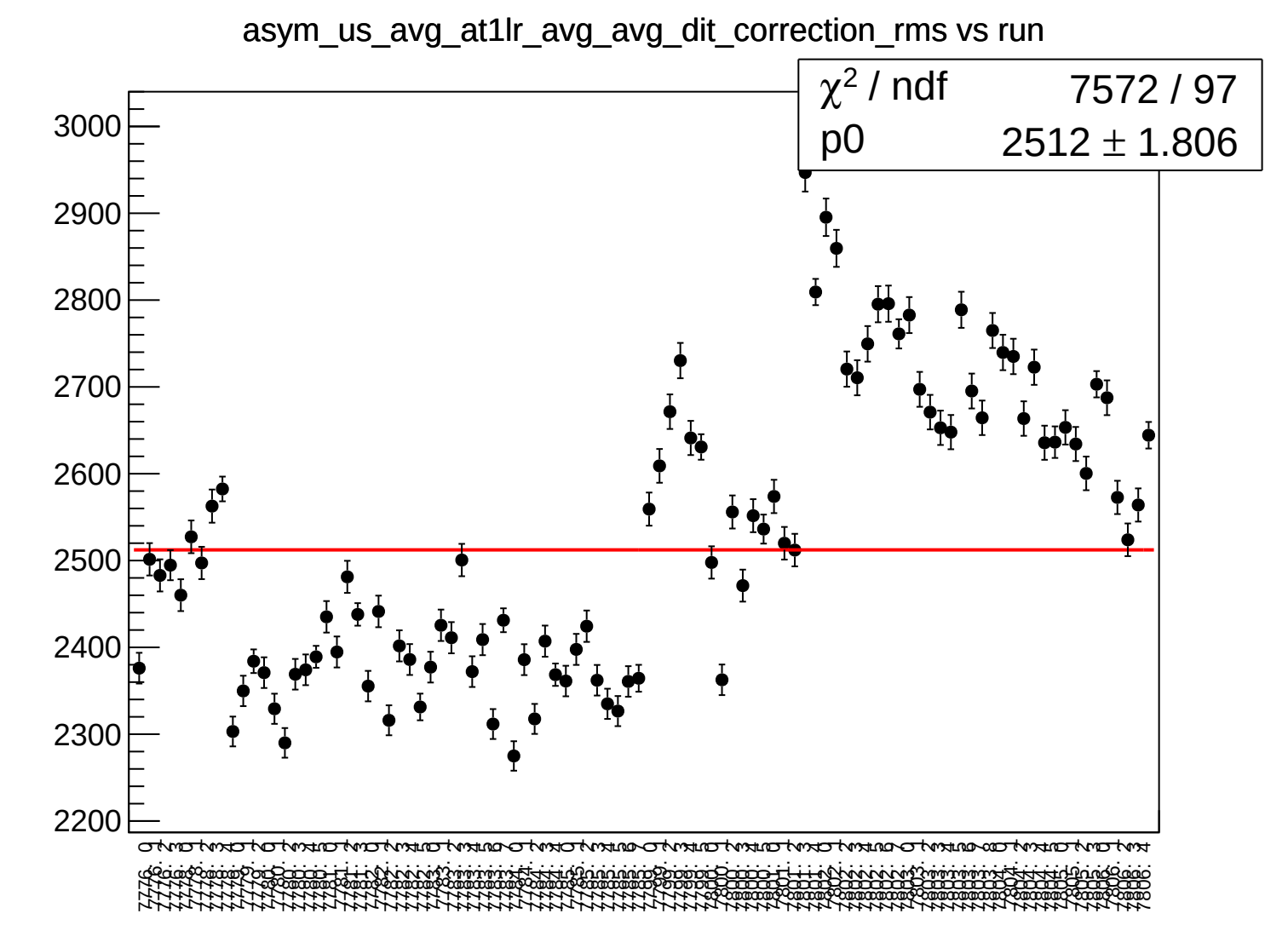

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 92.62 / 97
p0 4709 ± 2223
pull
Entries 98
Mean 626.4
Std Dev 0

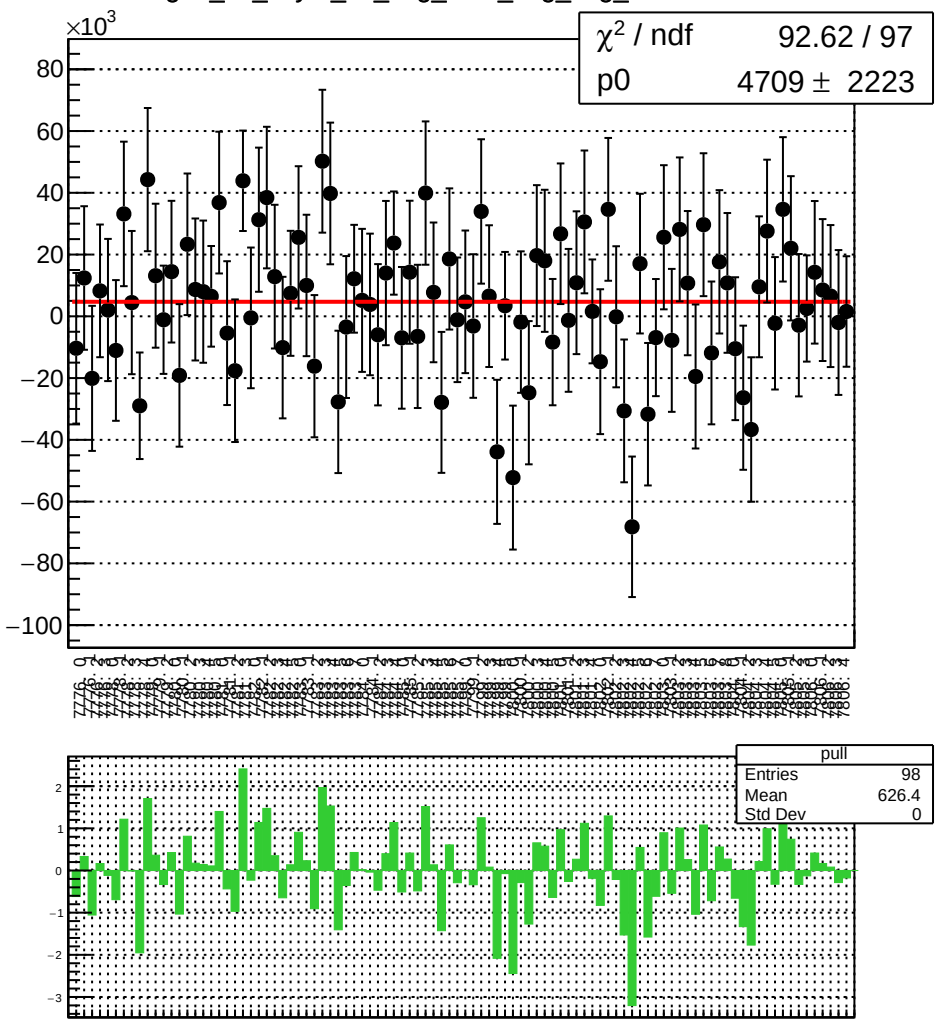

pull1D
Entries 98
Mean −0.004727
Std Dev 0.9722

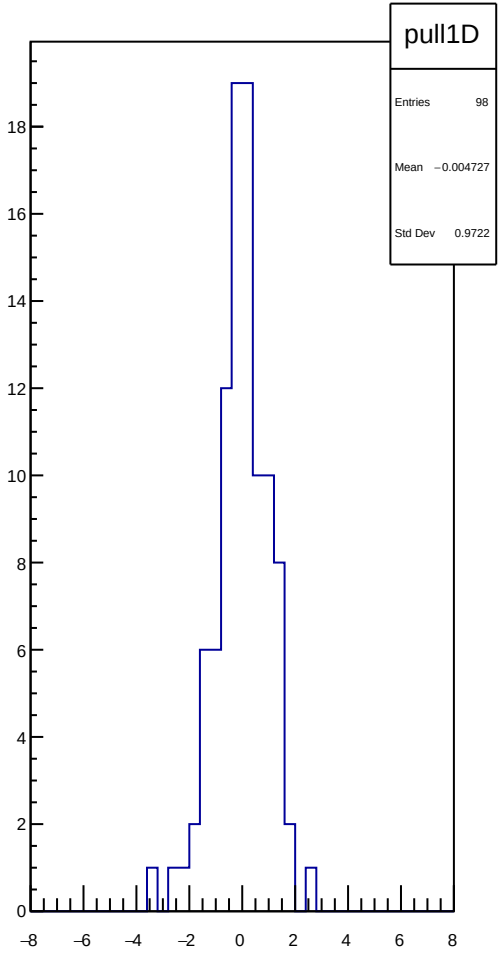

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 187.5 / 97
p0 2191 ± 1.572
2350
2300
2250
2200
2150

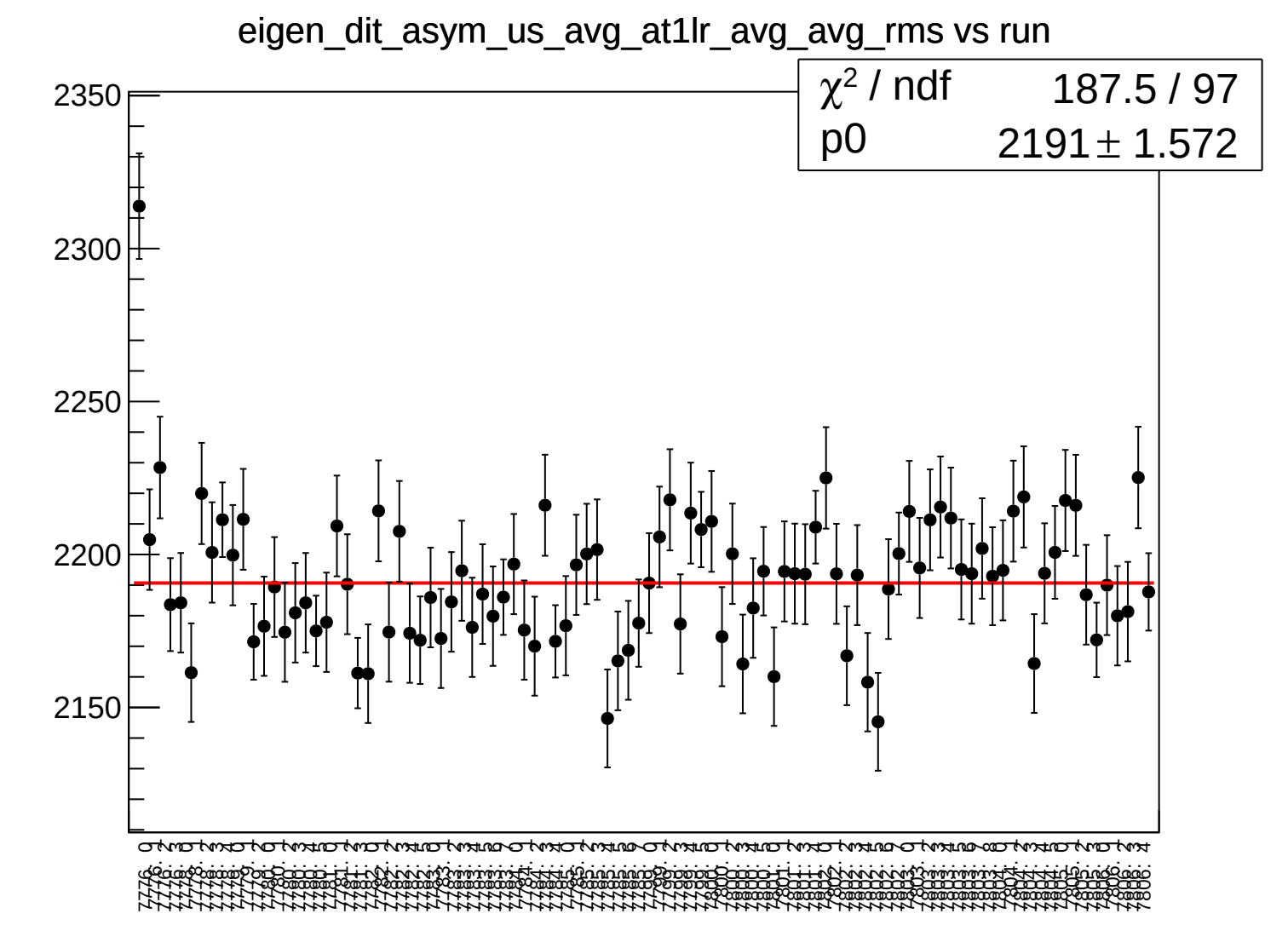

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.34 / 97
p0 2212 ± 2554
100
50
0
−50
−100
pull
Entries 98
Mean 425.5
Std Dev 0
2
1
0
−1
−2

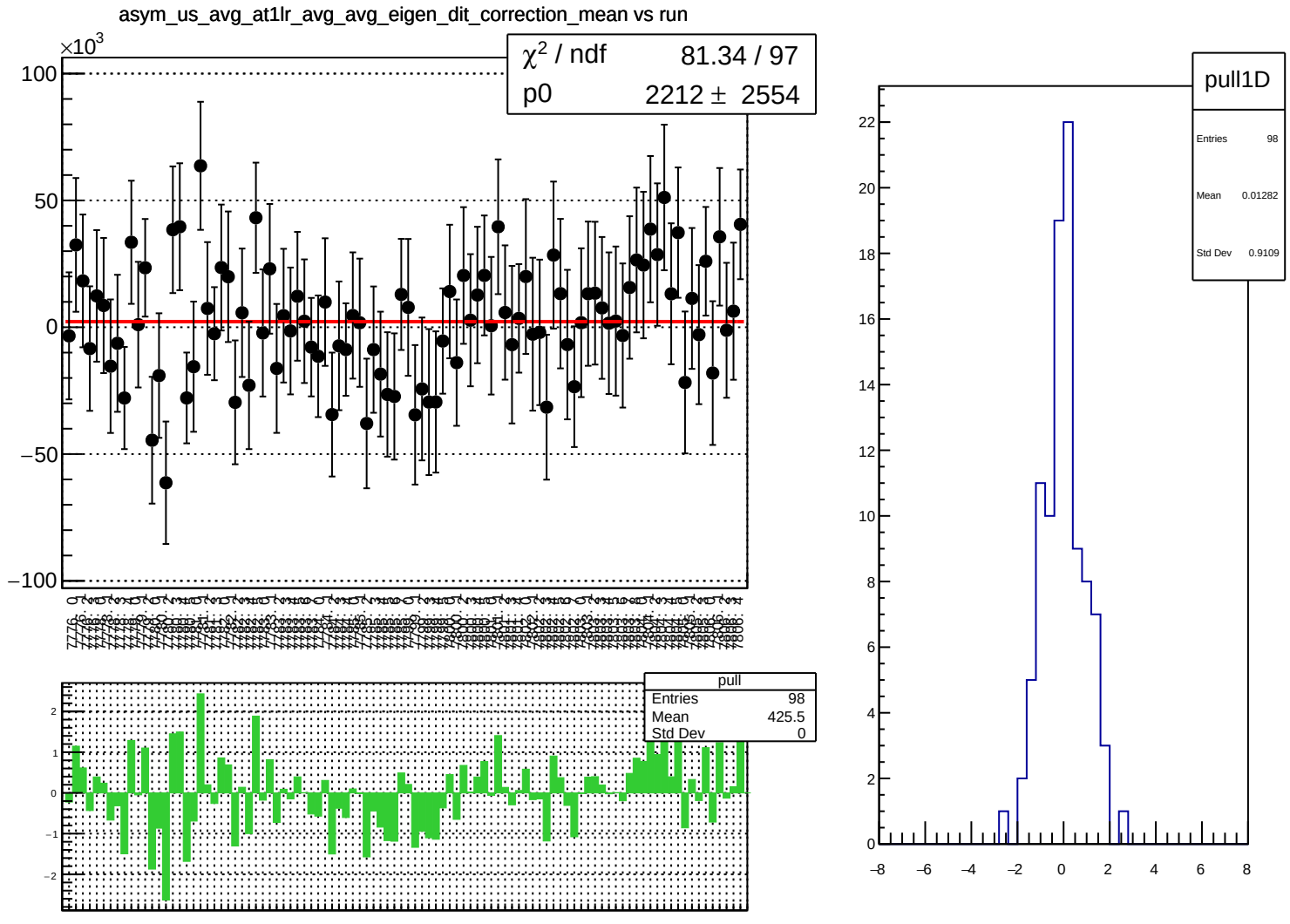

pull1D
Entries 98
Mean 0.01282
Std Dev 0.9109
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

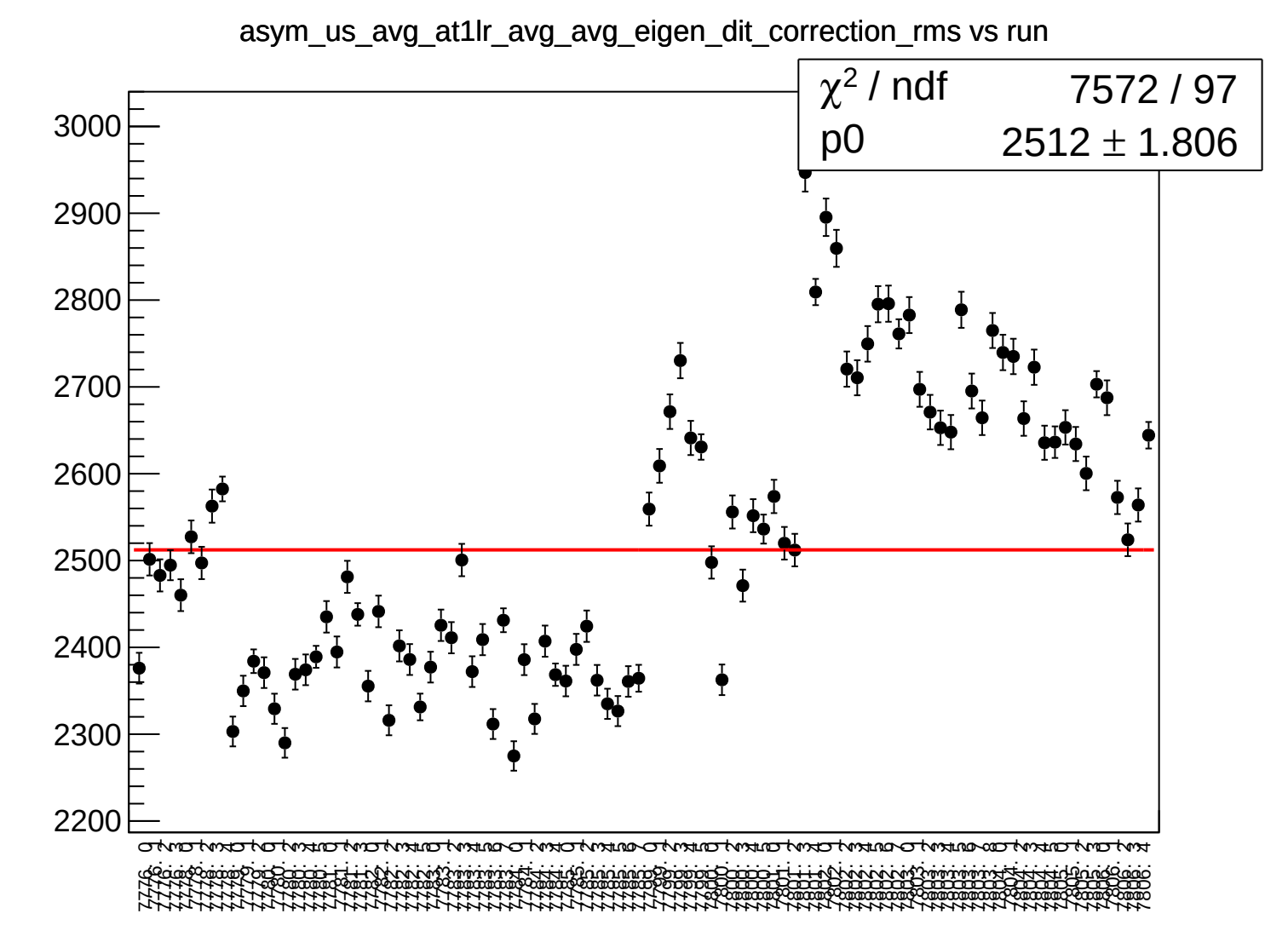

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 7572 / 97
p0 2512 ± 1.806
3000
2900
2800
2700
2600
2500
2400
2300
2200

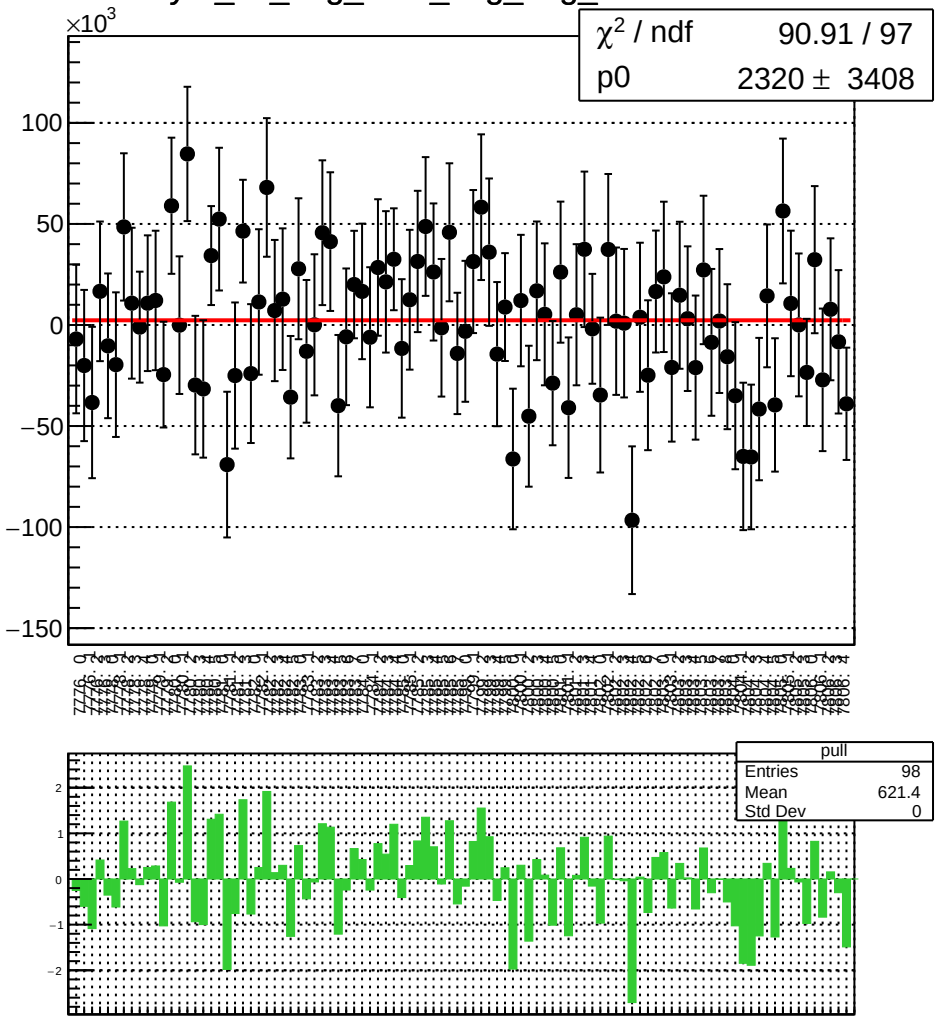

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 92.62 / 97
p0 4709 ± 2223
pull
Entries 98
Mean 626.4
Std Dev 0

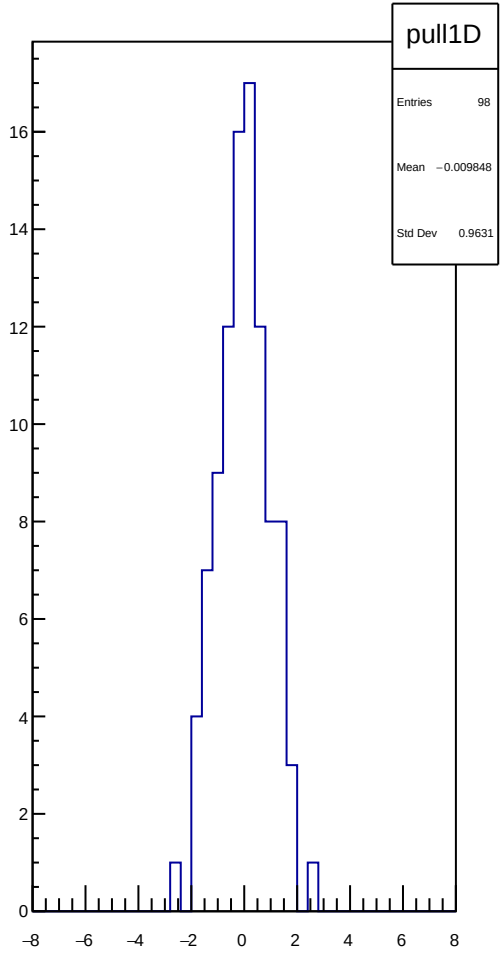

pull1D
Entries 98
Mean −0.004727
Std Dev 0.9722

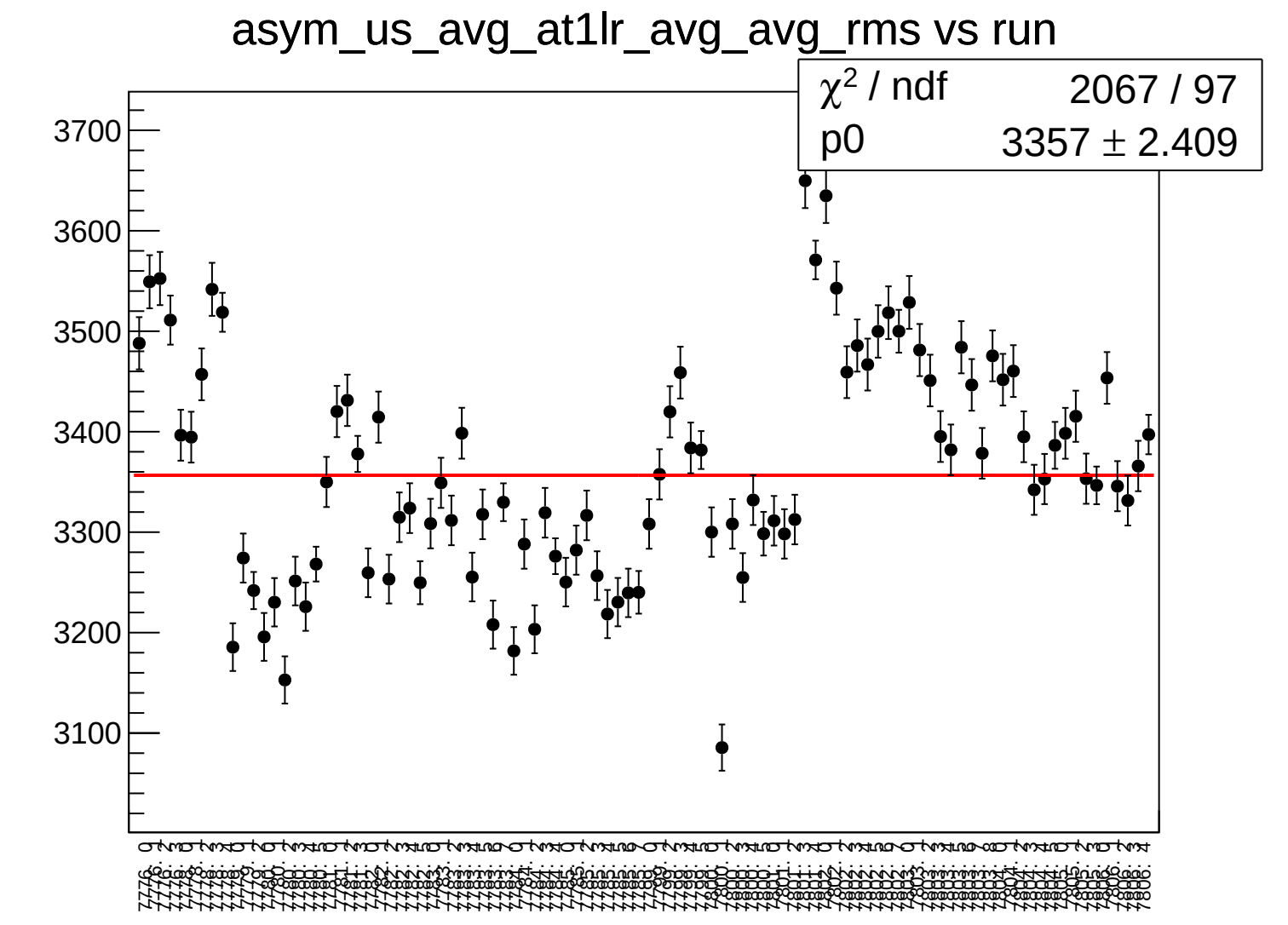

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 187.5 / 97
p0 2191 ± 1.572
2350
2300
2250
2200
2150

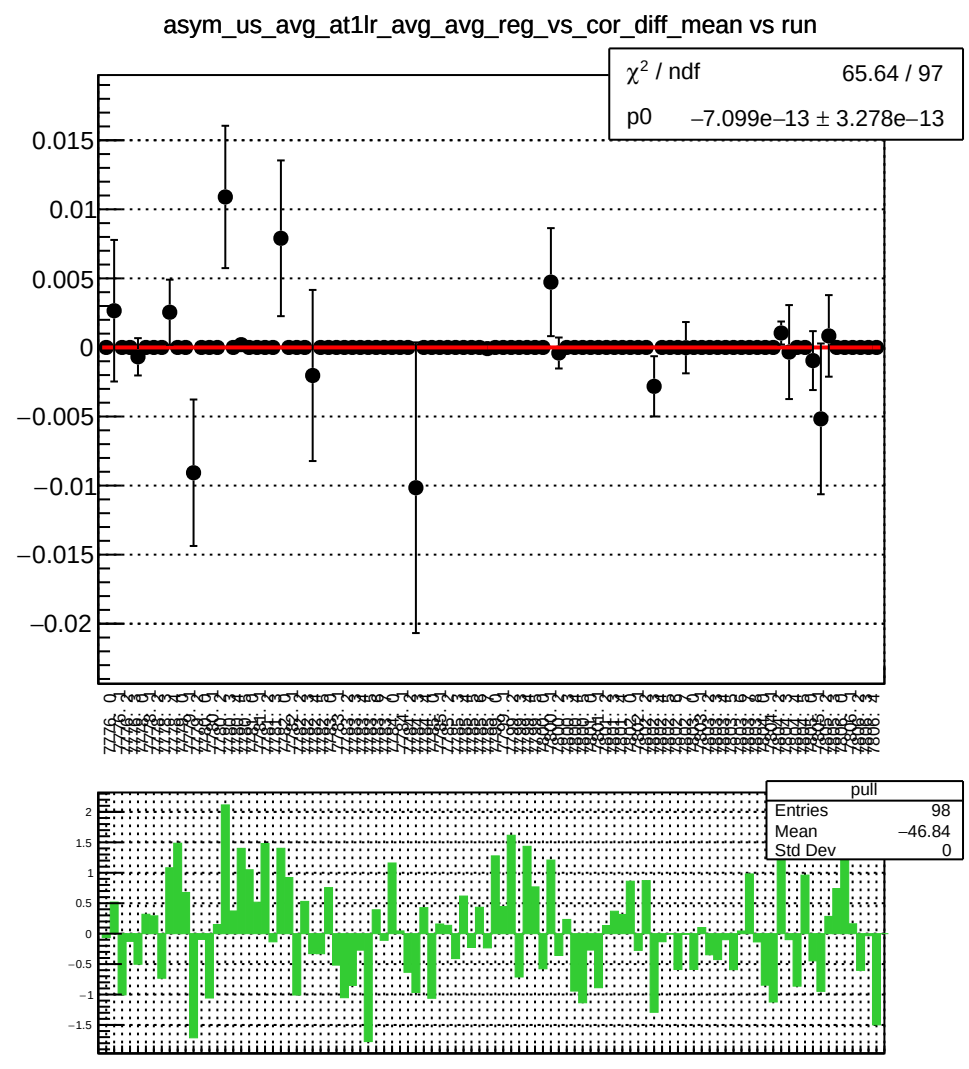

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.34 / 97
p0 2212 ± 2554
100
50
0
−50
−100
pull
Entries 98
Mean 425.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01282
Std Dev 0.9109
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

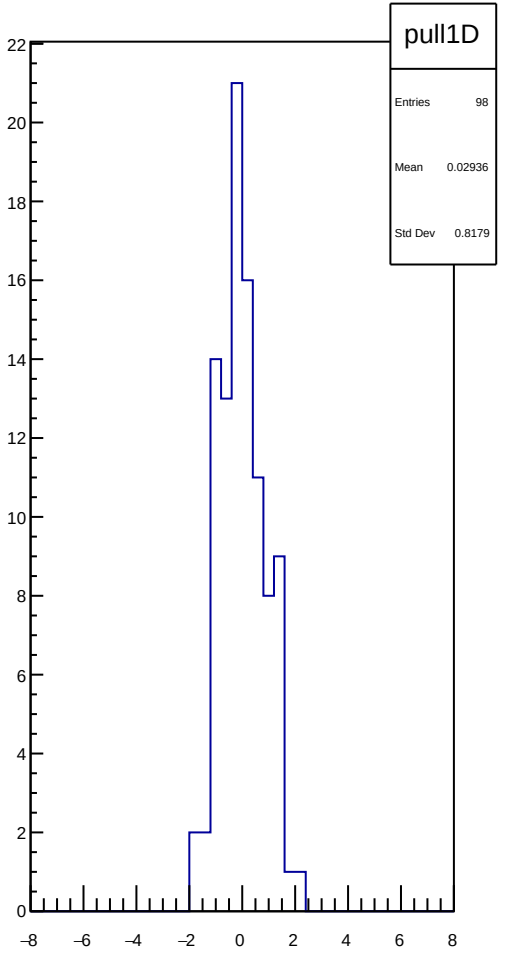

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7572 / 97
p0 2512 ± 1.806
3000
2900
2800
2700
2600
2500
2400
2300
2200

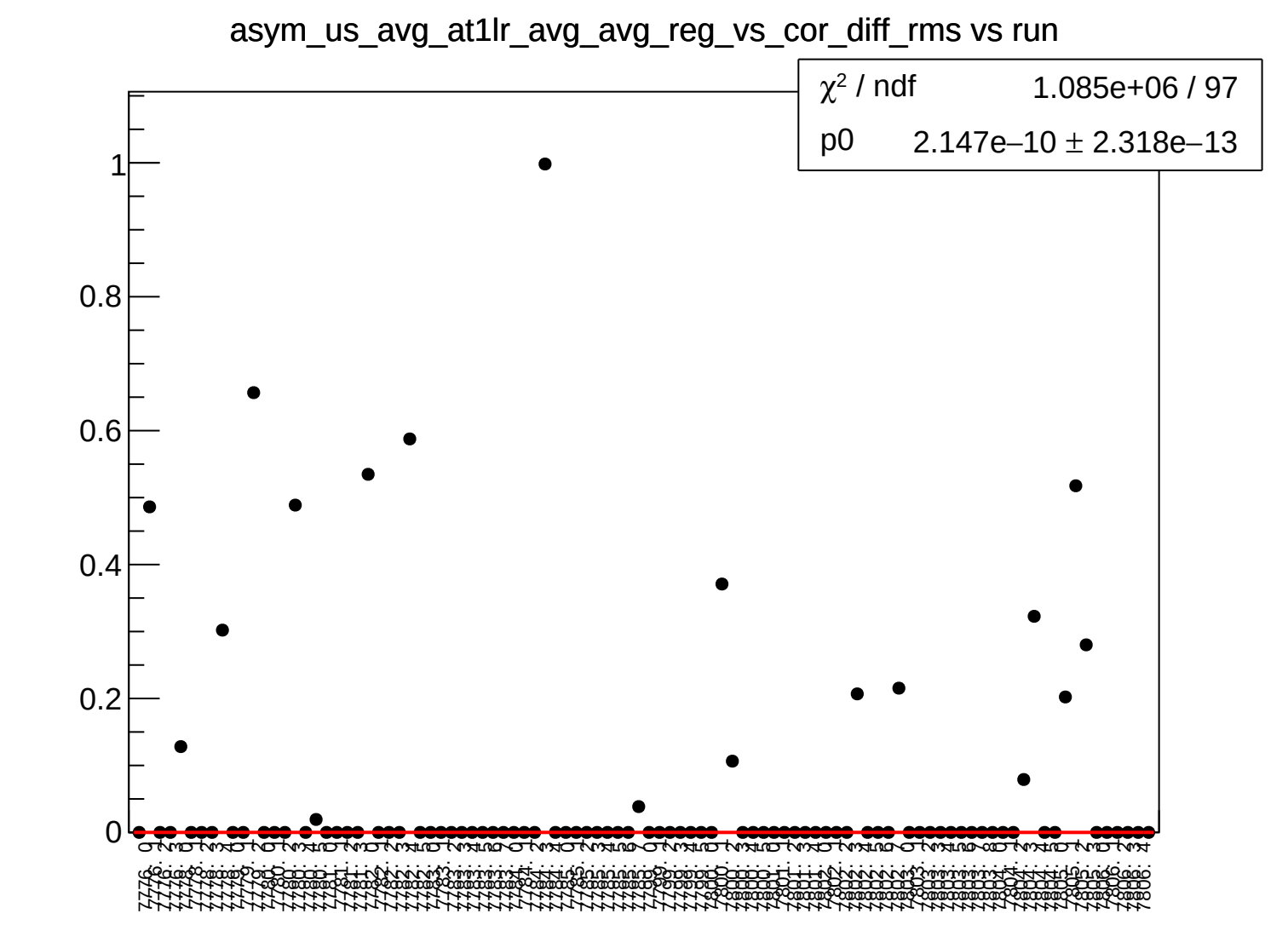

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 90.91 / 97
p0 2320 ± 3408
100
50
0
−50
−100
−150
pull
Entries 98
Mean 621.4
Std Dev 0
2
1
0
−1
−2

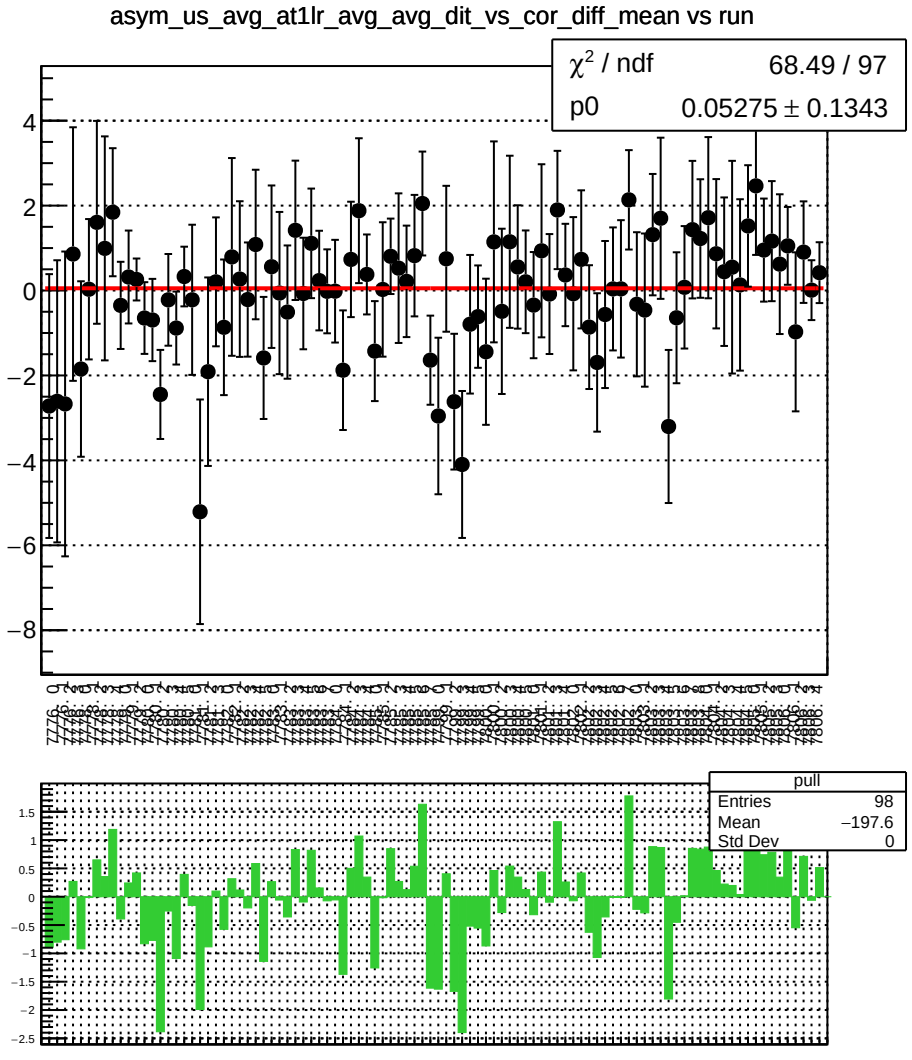

pull1D
Entries 98
Mean −0.009848
Std Dev 0.9631
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

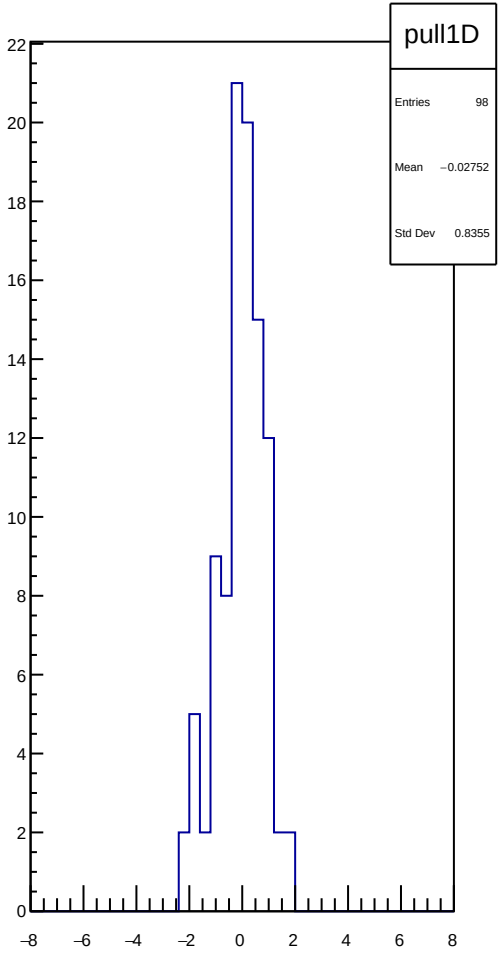

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2067 / 97
p0 3357 ± 2.409
3700
3600
3500
3400
3300
3200
3100

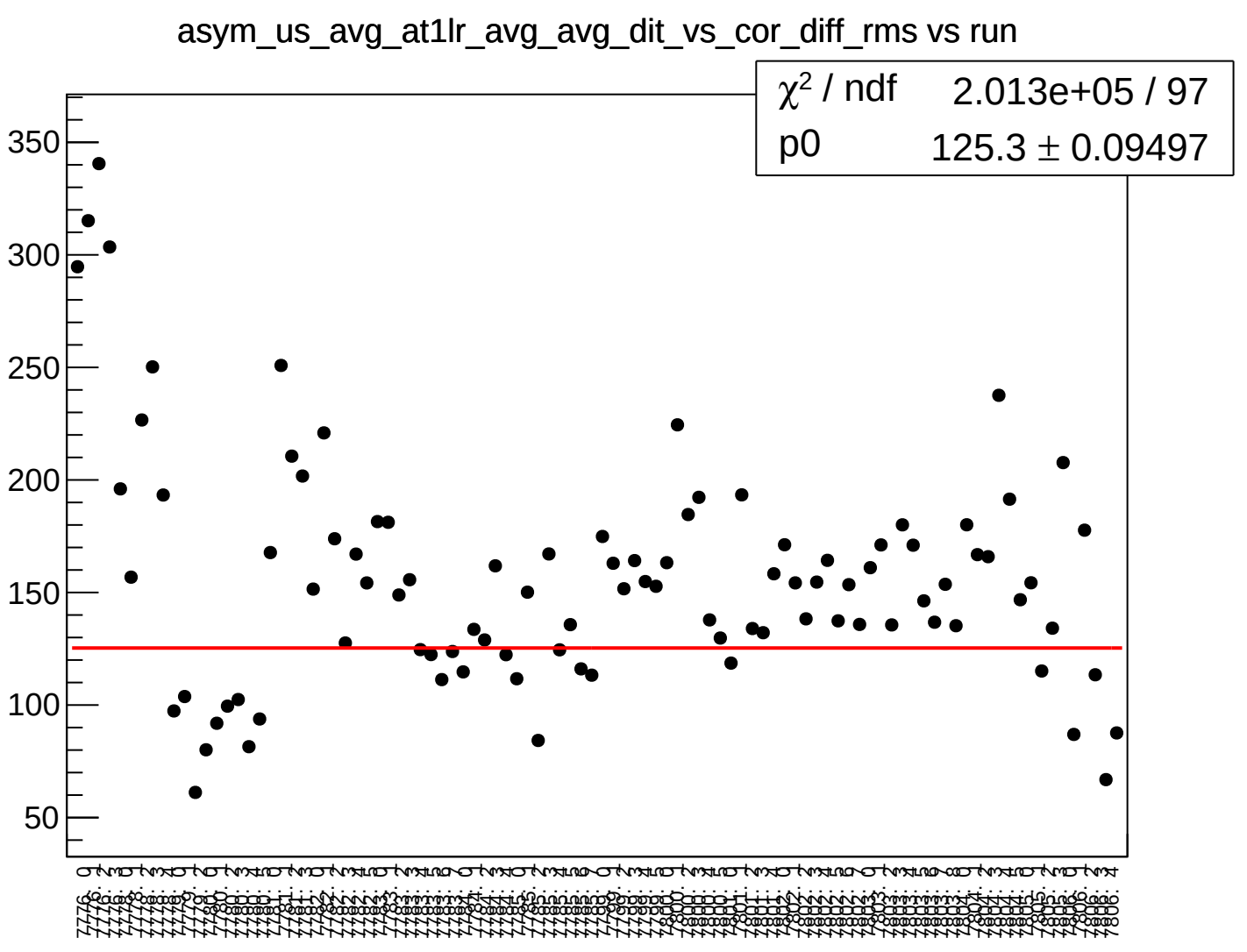

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.64 / 97
p0 −7.099e−13 ± 3.278e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 98
Mean −46.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

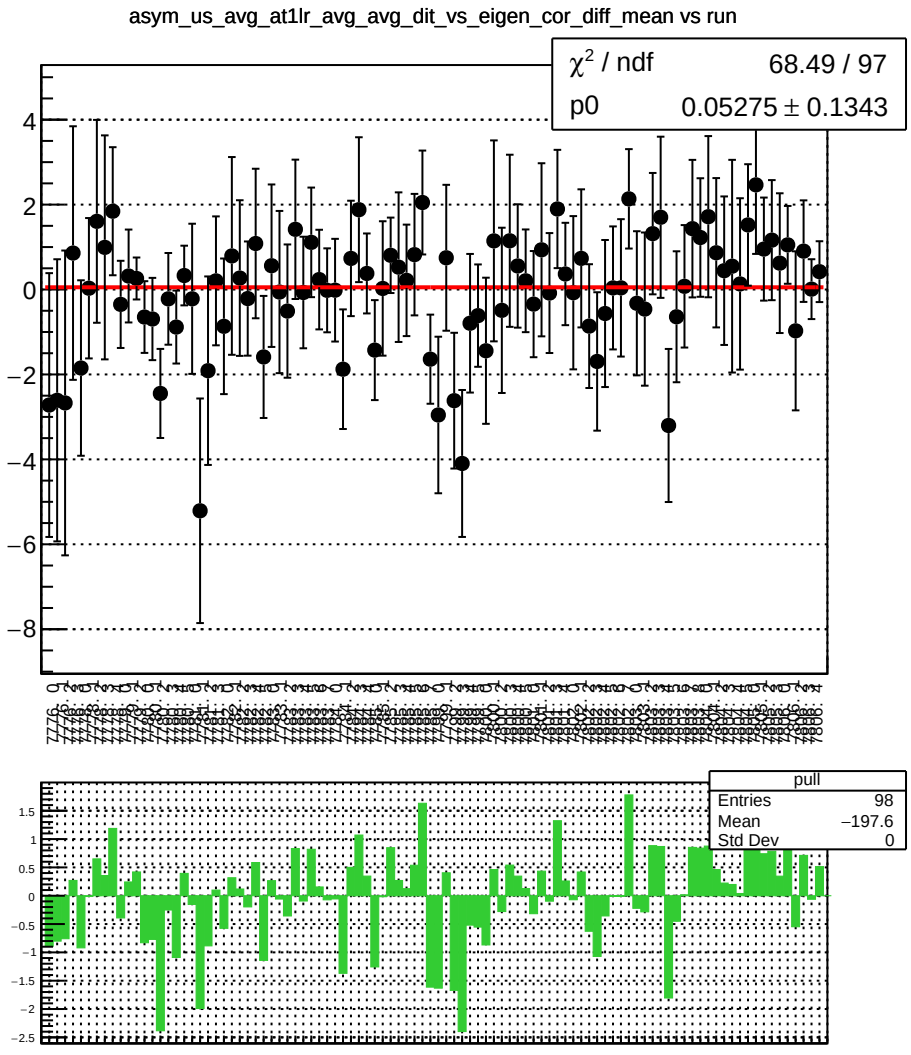

pull1D
Entries 98
Mean 0.02936
Std Dev 0.8179
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

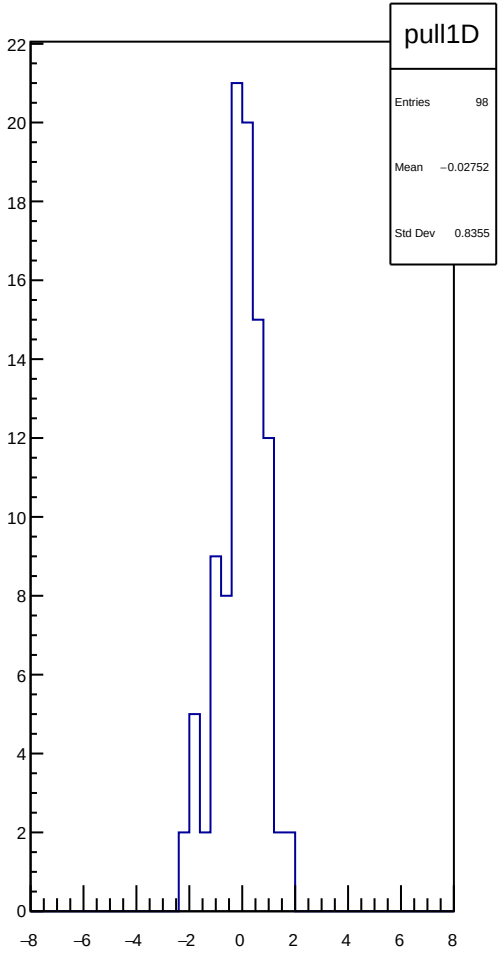

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.085e+06 / 97
p0 2.147e−10 ± 2.318e−13
1
0.8
0.6
0.4
0.2
0

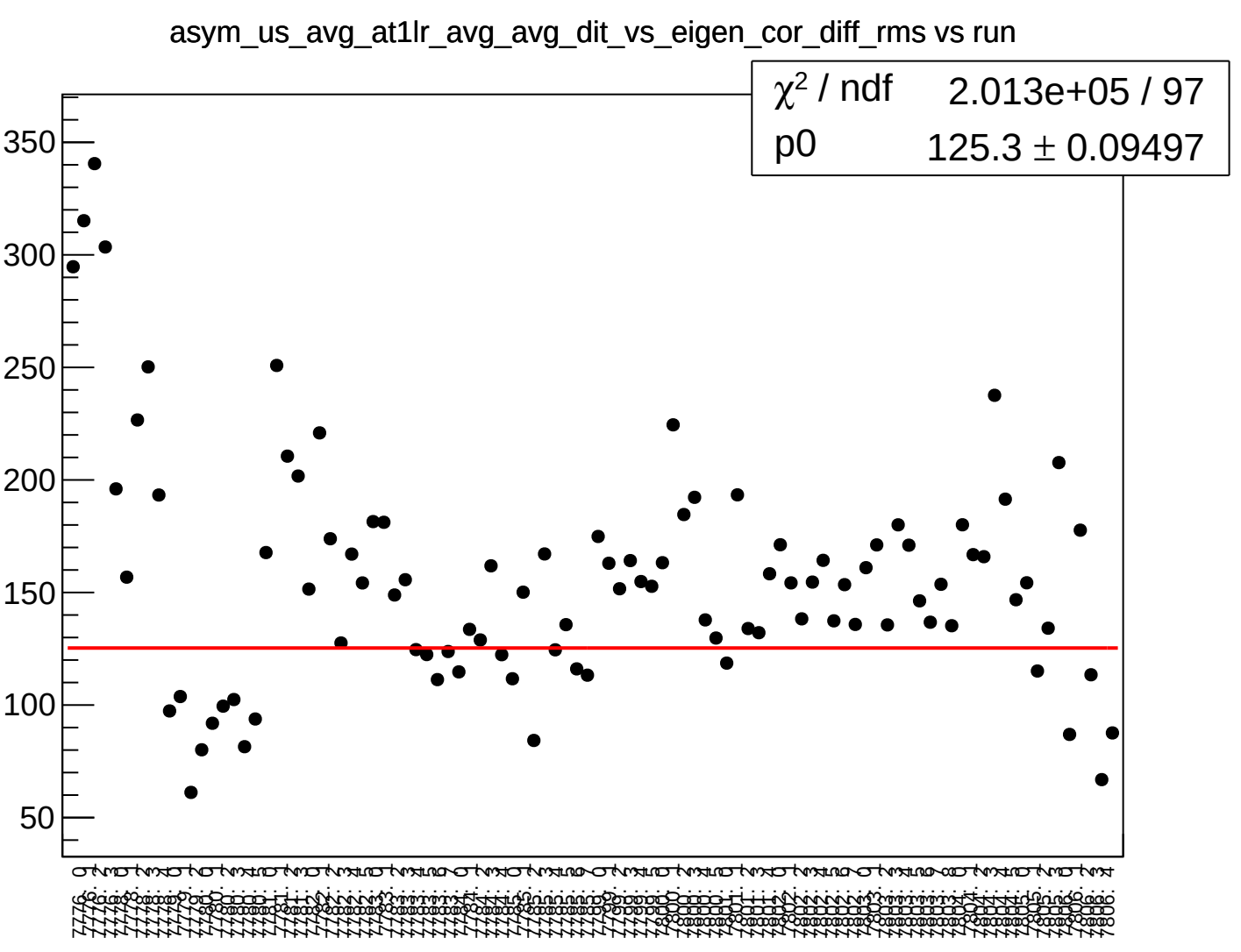

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.49 / 97
p0 0.05275 ± 0.1343
pull
Entries 98
Mean −197.6
Std Dev 0

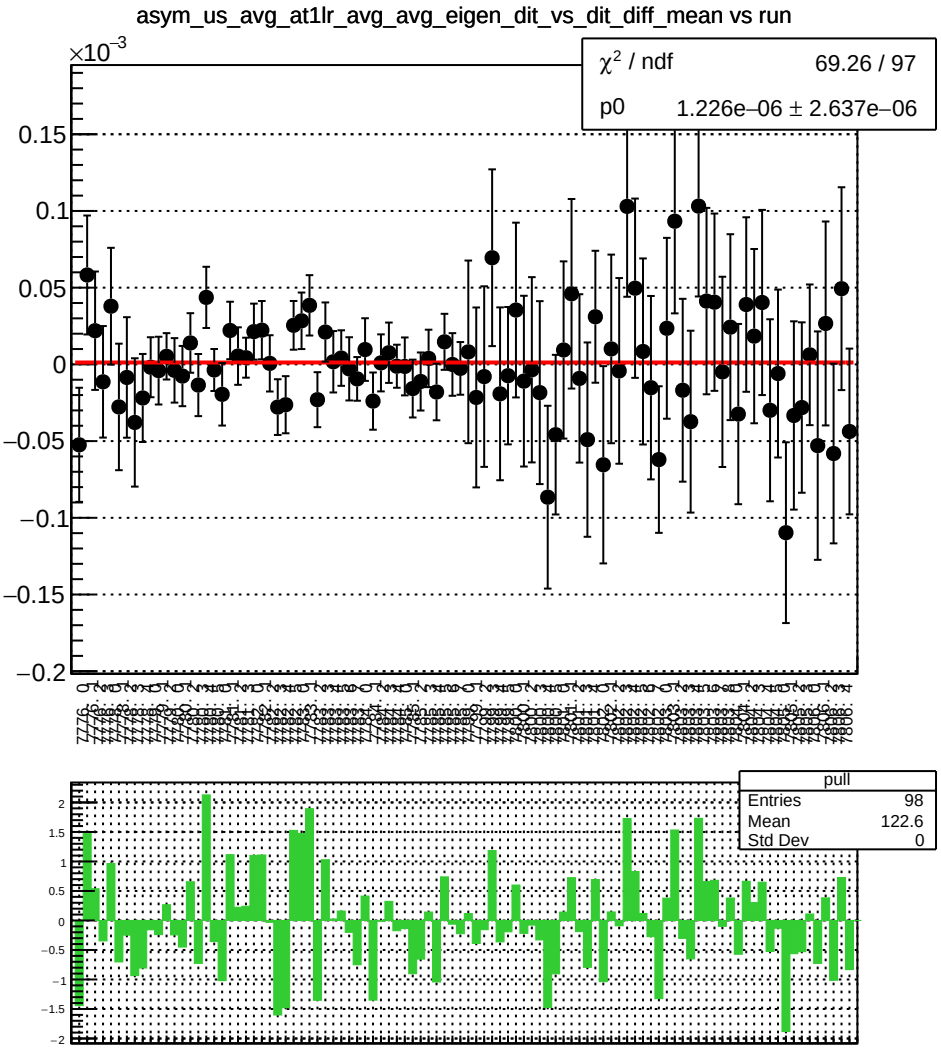

pull1D
Entries 98
Mean −0.02752
Std Dev 0.8355

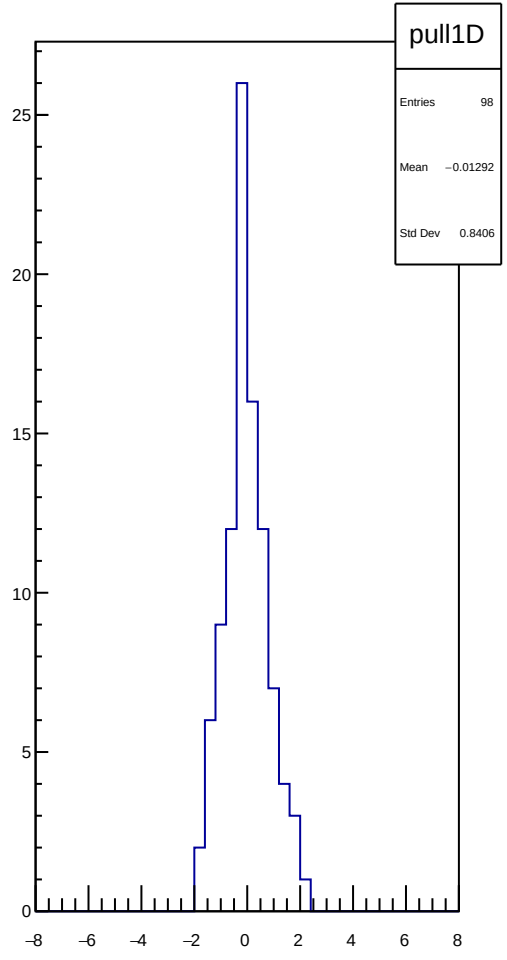

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.013e+05 / 97
p0 125.3 ± 0.09497
350
300
250
200
150
100
50

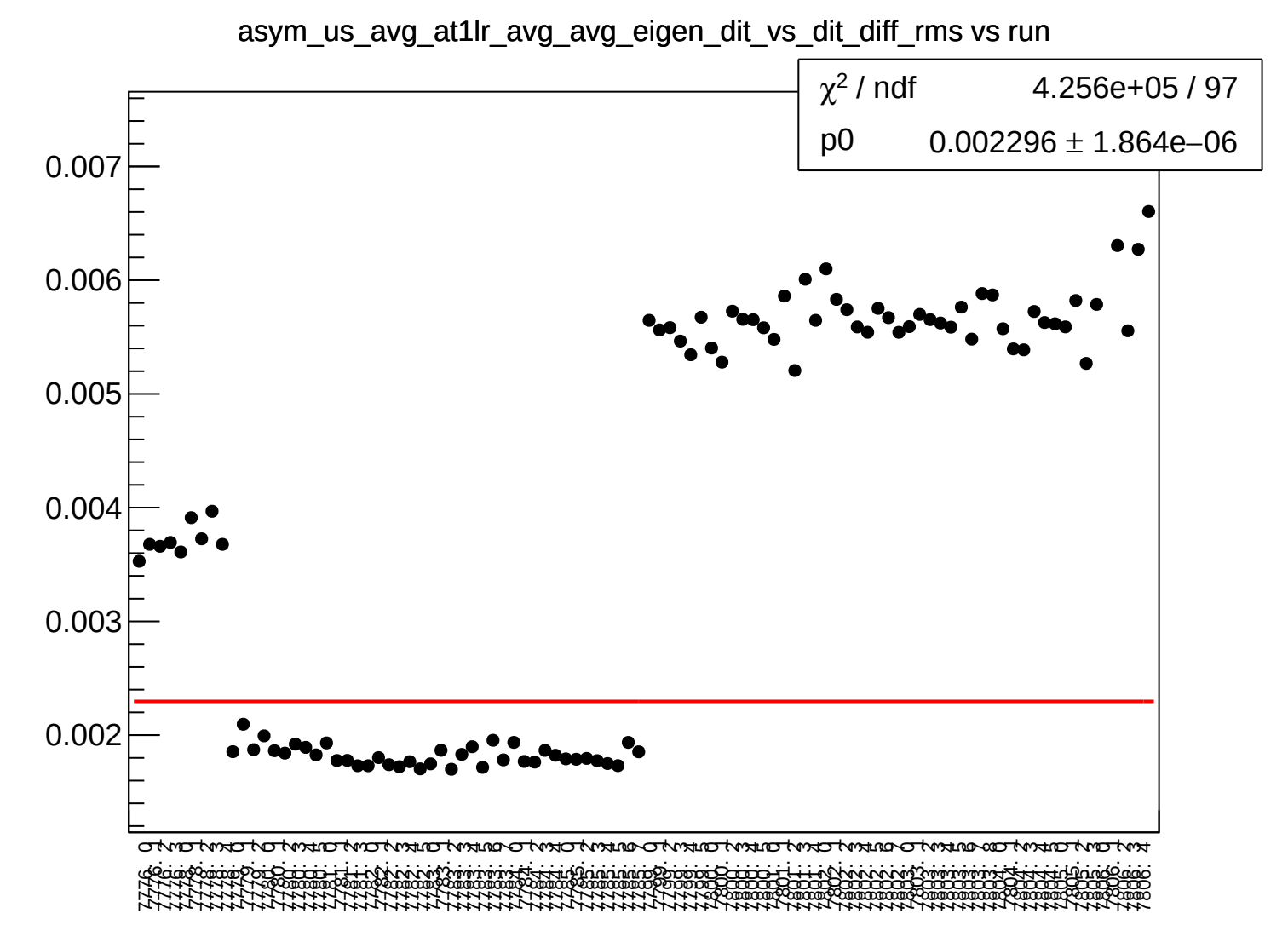

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.49 / 97
p0 0.05275 ± 0.1343
pull
Entries 98
Mean −197.6
Std Dev 0

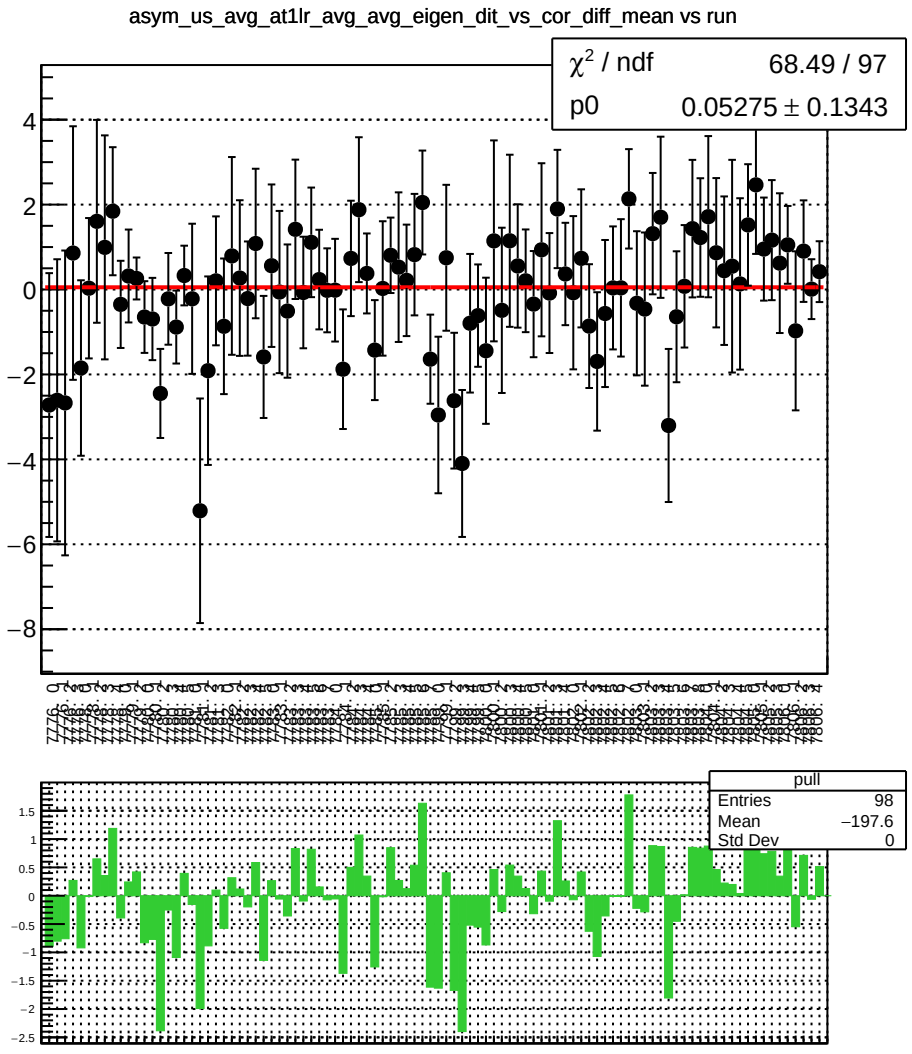

pull1D
Entries 98
Mean −0.02752
Std Dev 0.8355

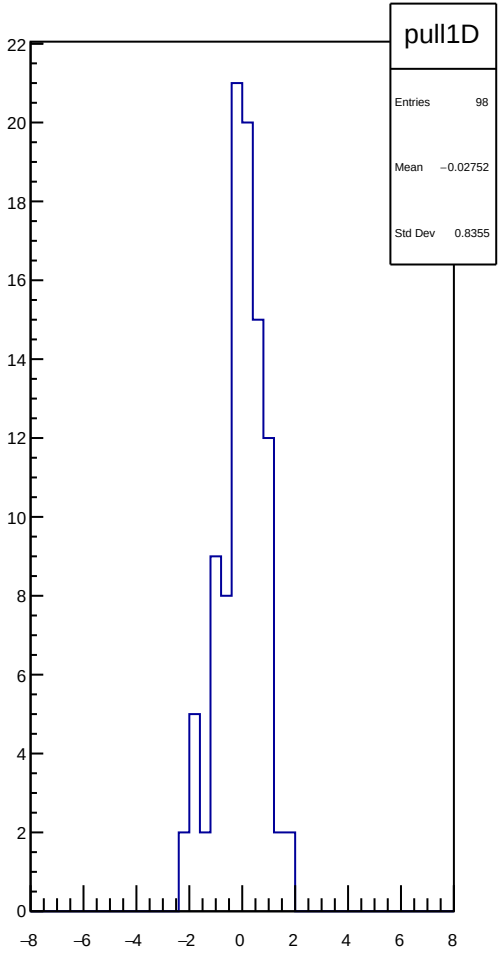

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.013e+05 / 97
p0 125.3 ± 0.09497
350
300
250
200
150
100
50

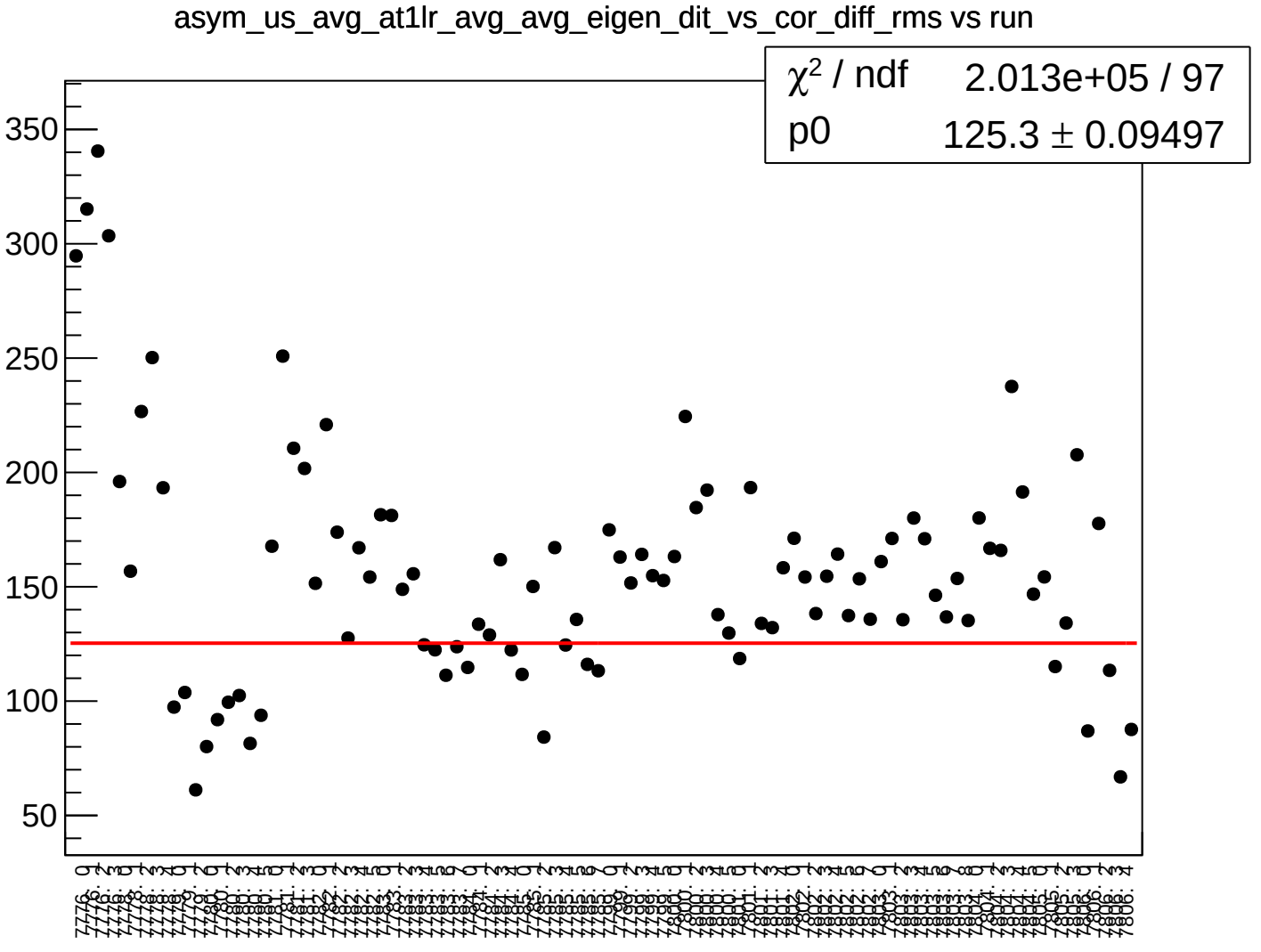

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.26 / 97
p0 1.226e−06 ± 2.637e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 98
Mean 122.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

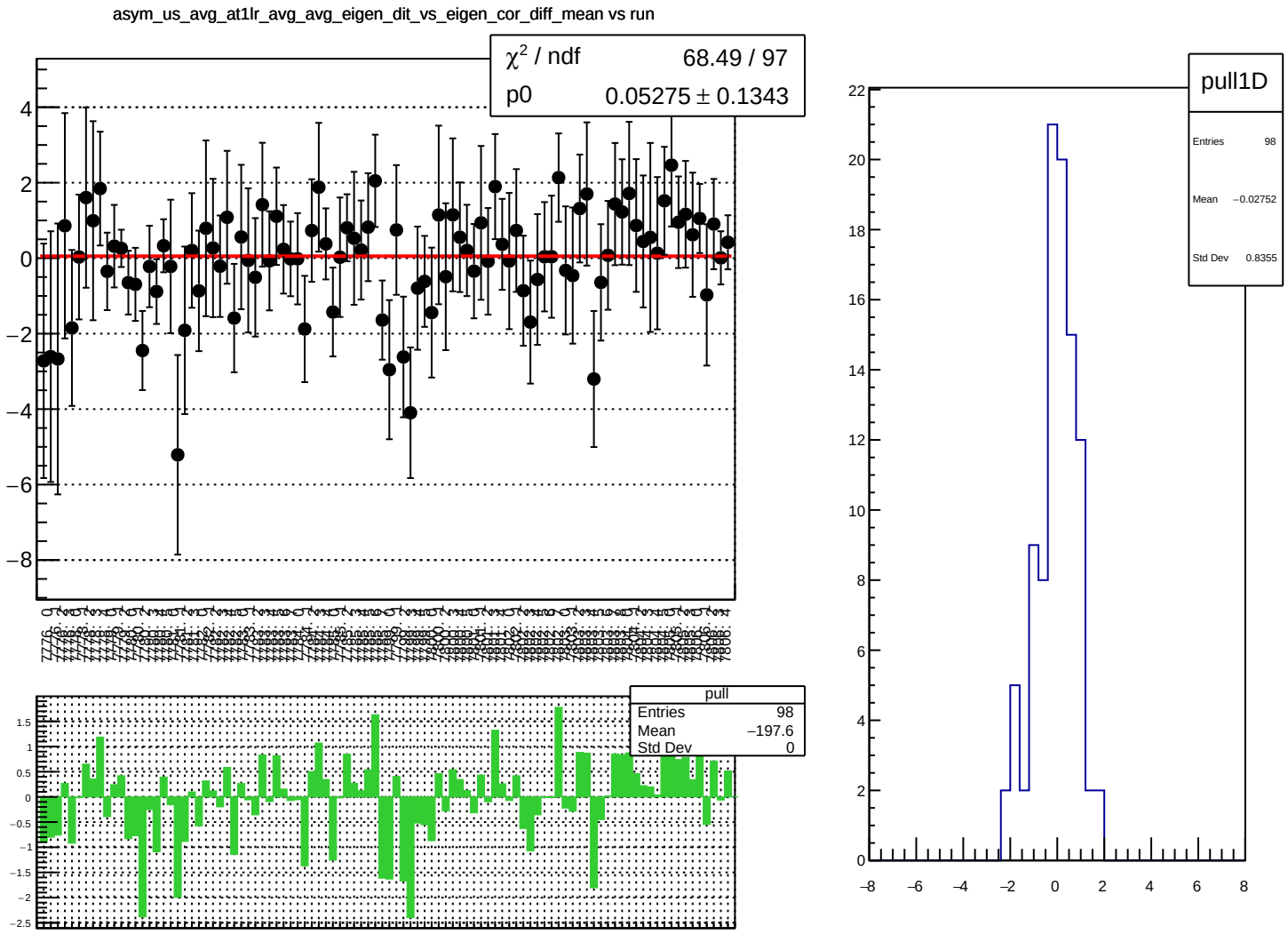

pull1D
Entries 98
Mean −0.01292
Std Dev 0.8406
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

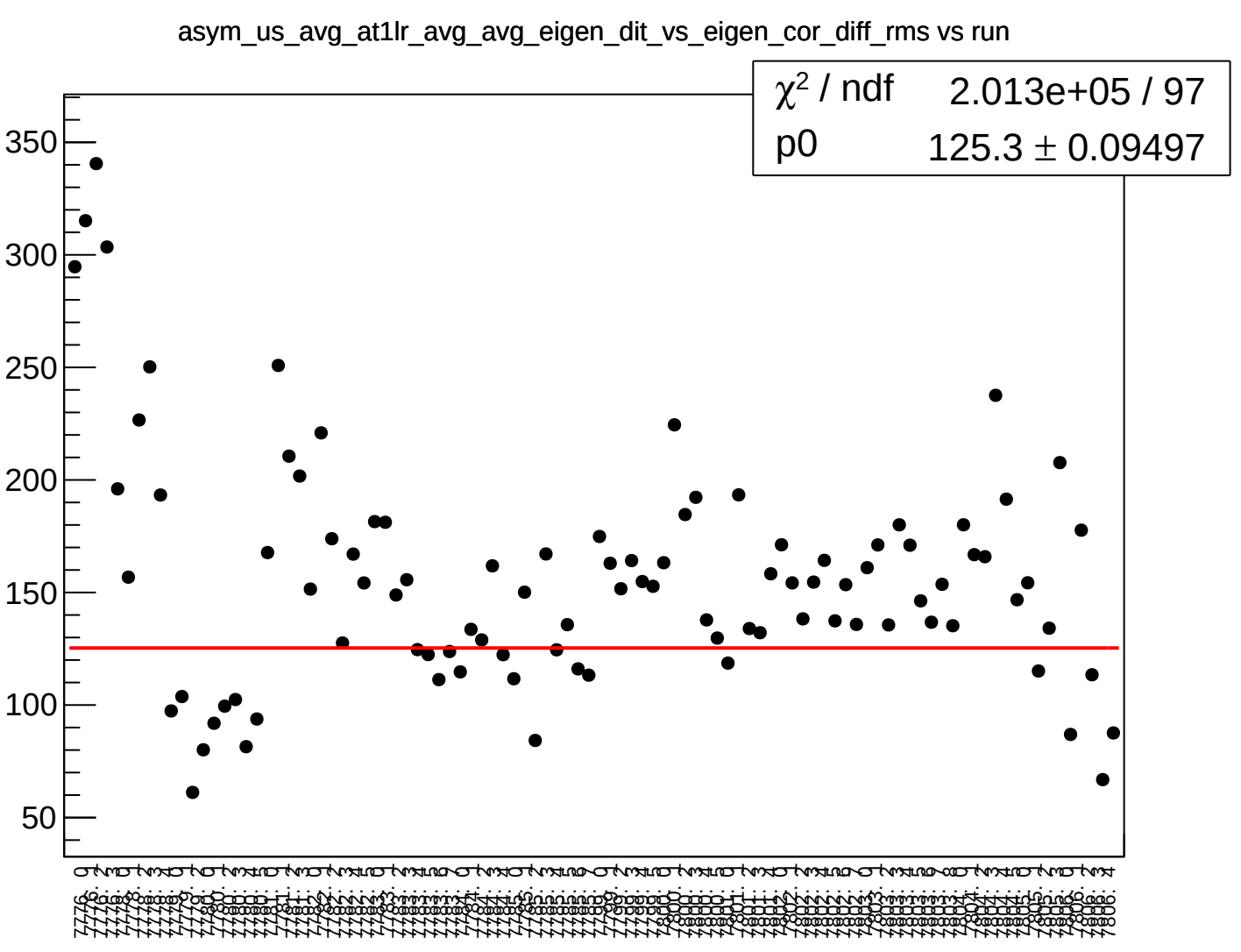

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.256e+05 / 97
p0 0.002296 ± 1.864e−06
0.007
0.006
0.005
0.004
0.003
0.002

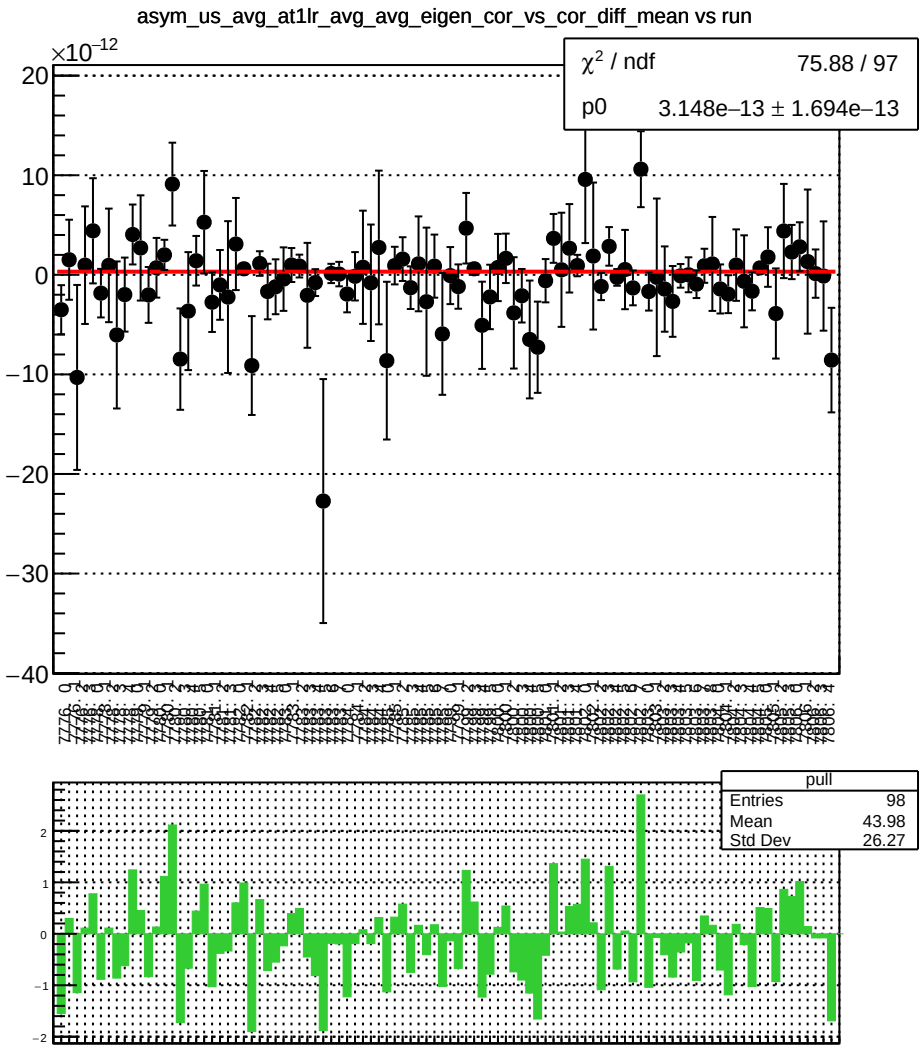

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.49 / 97
p0 0.05275 ± 0.1343
pull
Entries 98
Mean −197.6
Std Dev 0

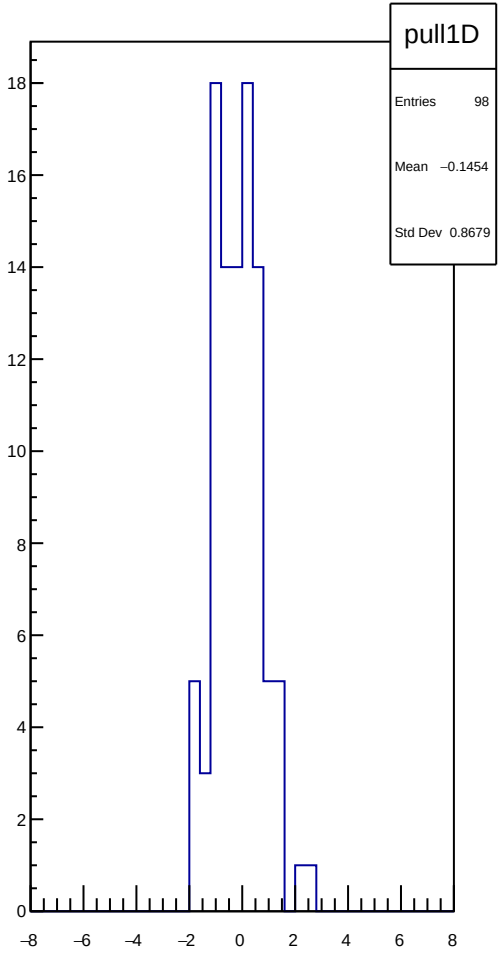

pull1D
Entries 98
Mean −0.02752
Std Dev 0.8355

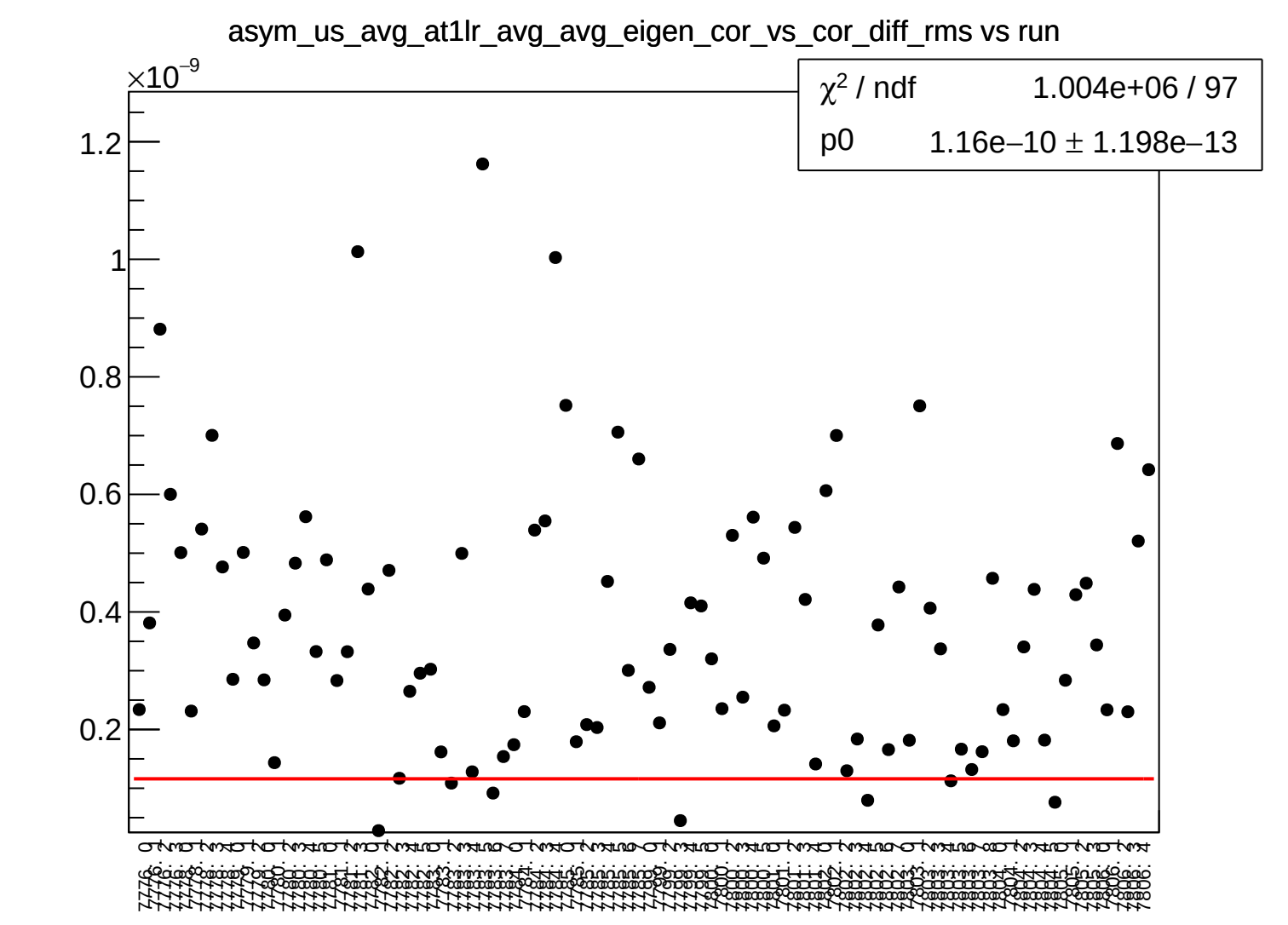

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.013e+05 / 97
p0 125.3 ± 0.09497
350
300
250
200
150
100
50

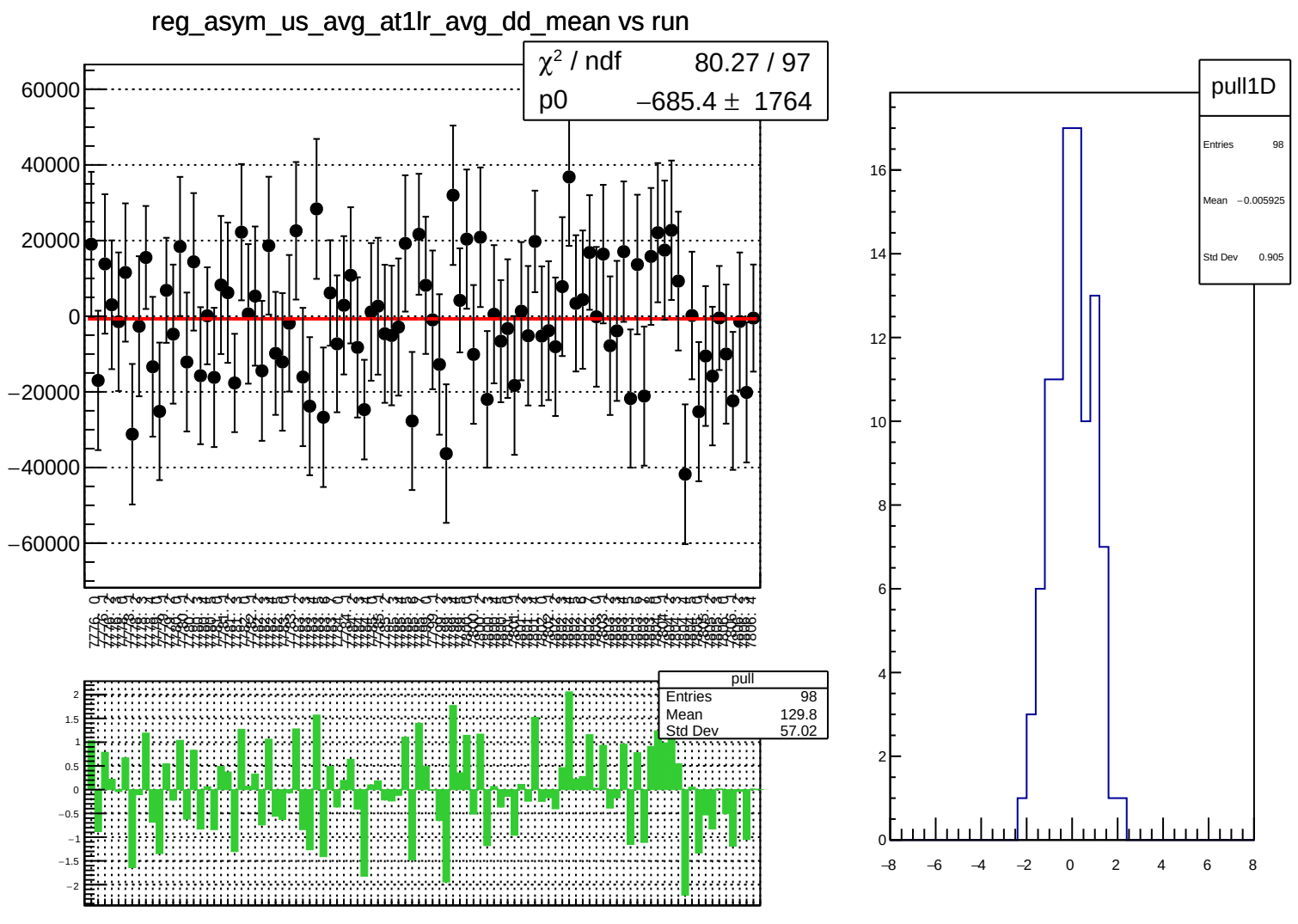

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.49 / 97
p0 0.05275 ± 0.1343
pull
Entries 98
Mean −197.6
Std Dev 0
pull1D
Entries 98
Mean −0.02752
Std Dev 0.8355

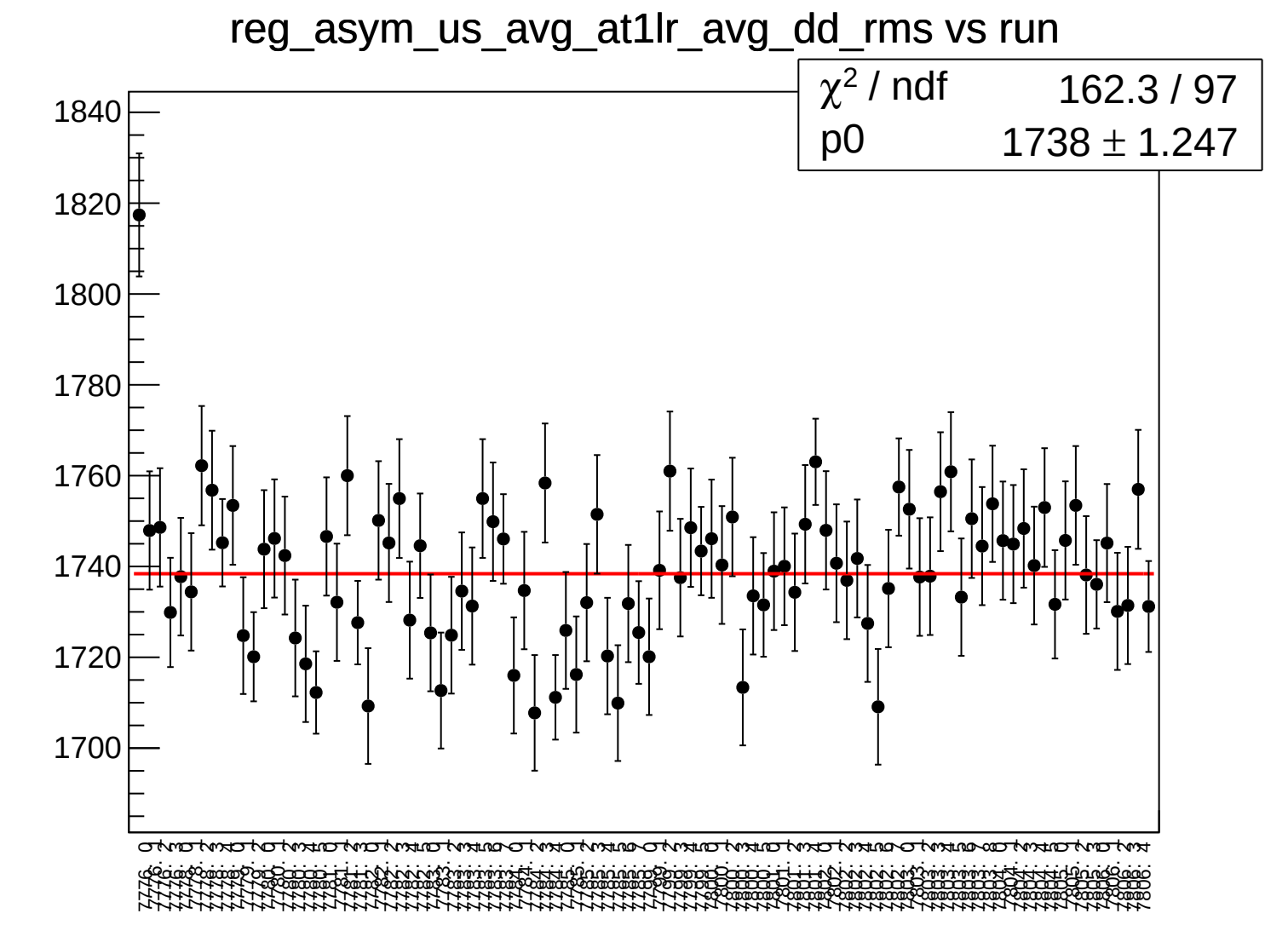

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.013e+05 / 97
p0 125.3 ± 0.09497
350
300
250
200
150
100
50

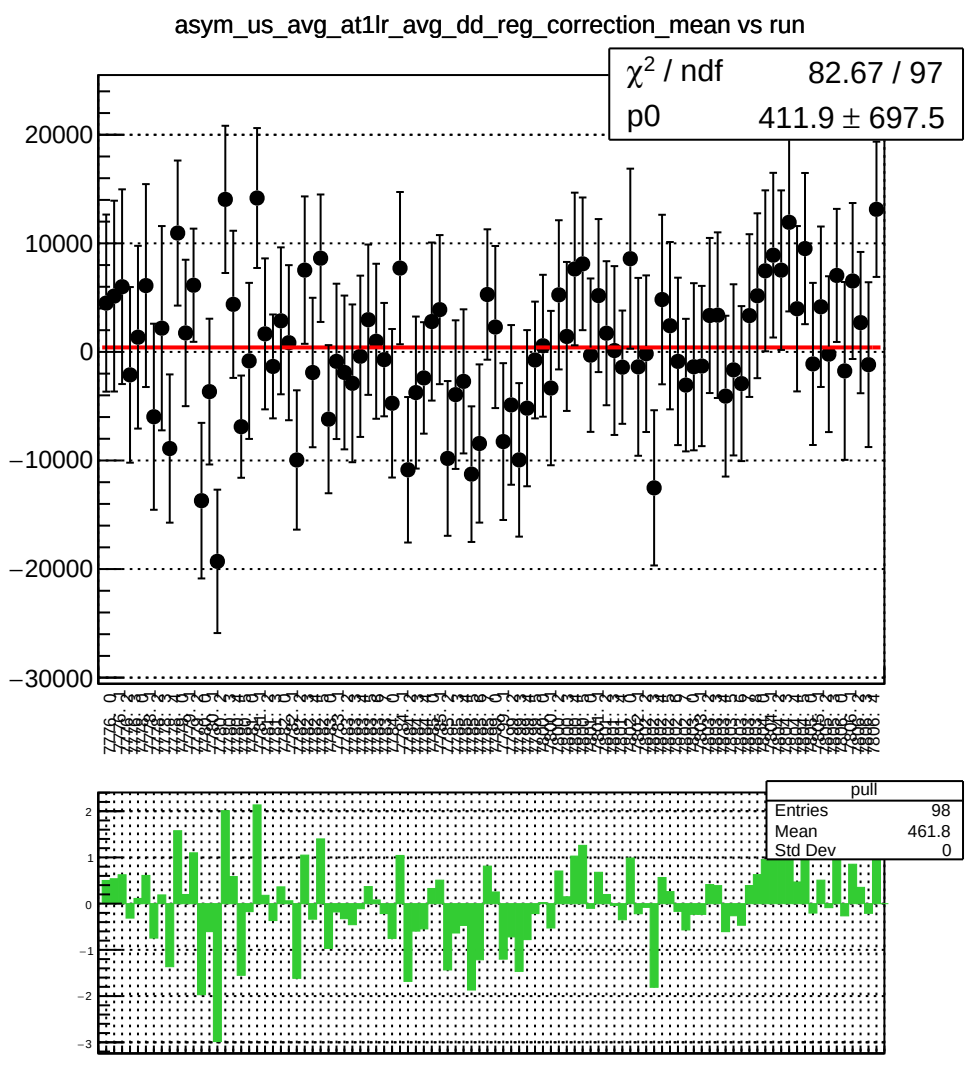

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 75.88 / 97
p0 3.148e−13 ± 1.694e−13
pull
Entries 98
Mean 43.98
Std Dev 26.27

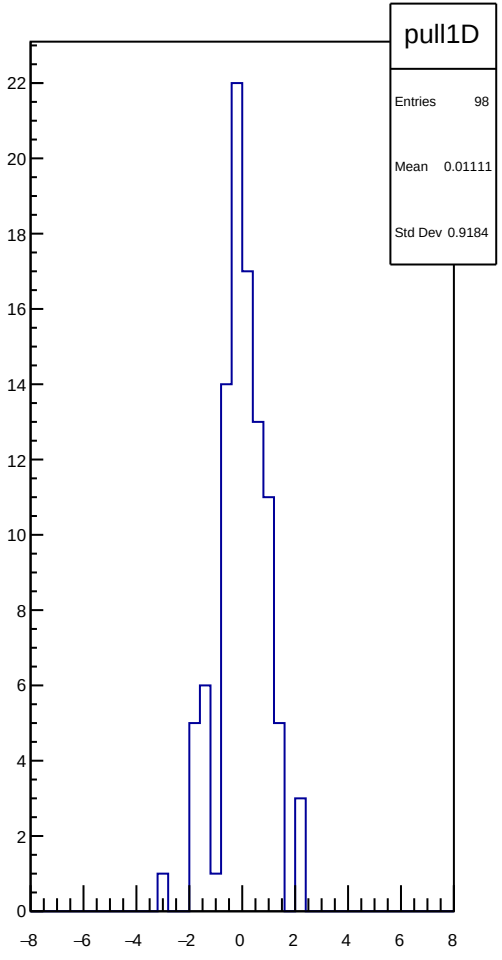

pull1D
Entries 98
Mean −0.1454
Std Dev 0.8679

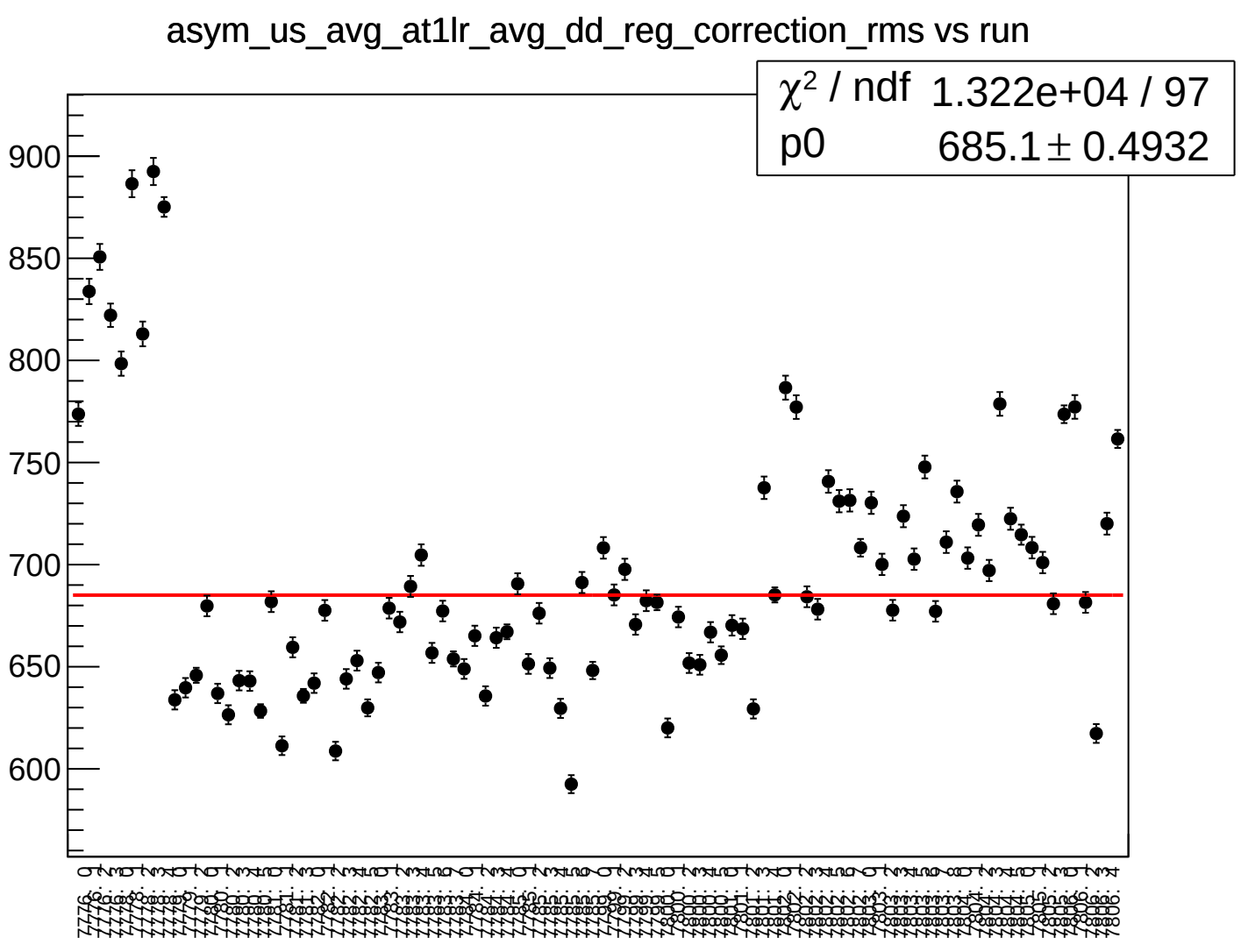

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.004e+06 / 97
p0 1.16e−10 ± 1.198e−13
1.2
1
0.8
0.6
0.4
0.2

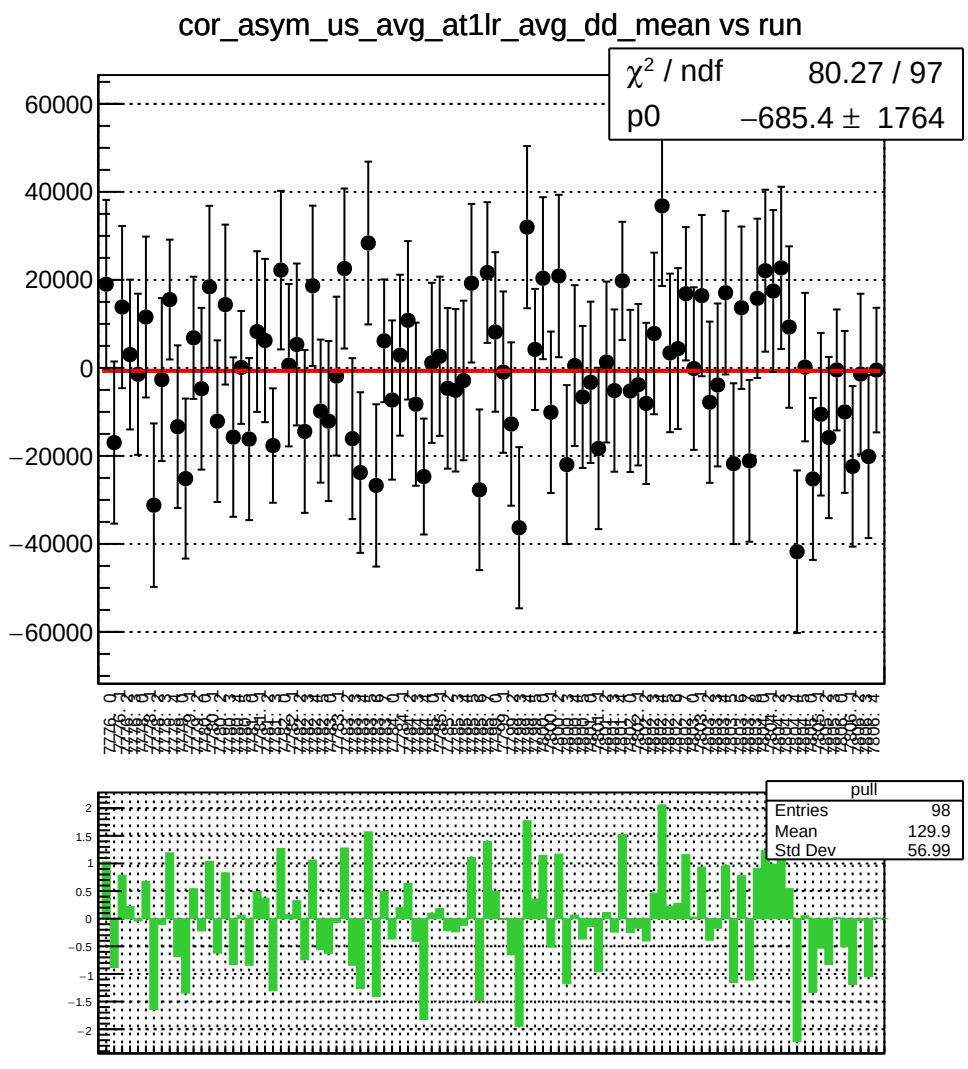

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.27 / 97
p0 −685.4 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 129.8
Std Dev 57.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.005925
Std Dev 0.905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

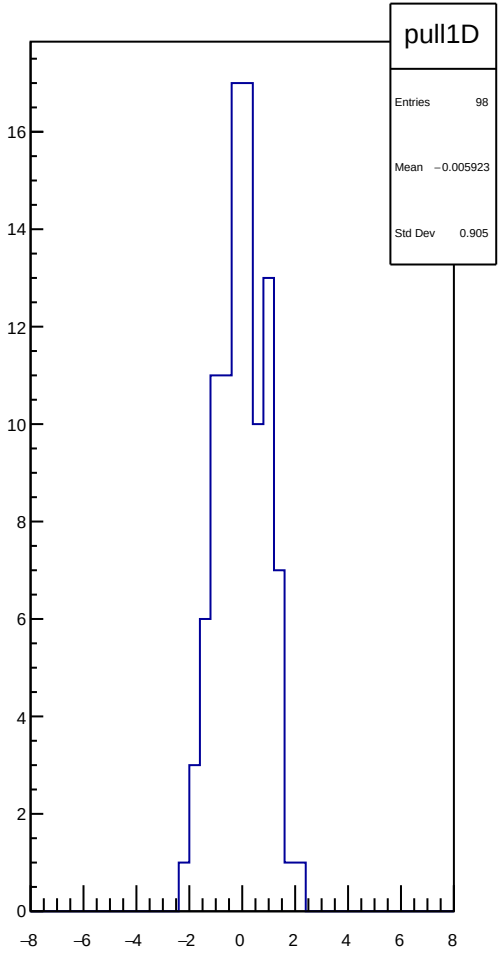

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 162.3 / 97
p0 1738 ± 1.247
1840
1820
1800
1780
1760
1740
1720
1700

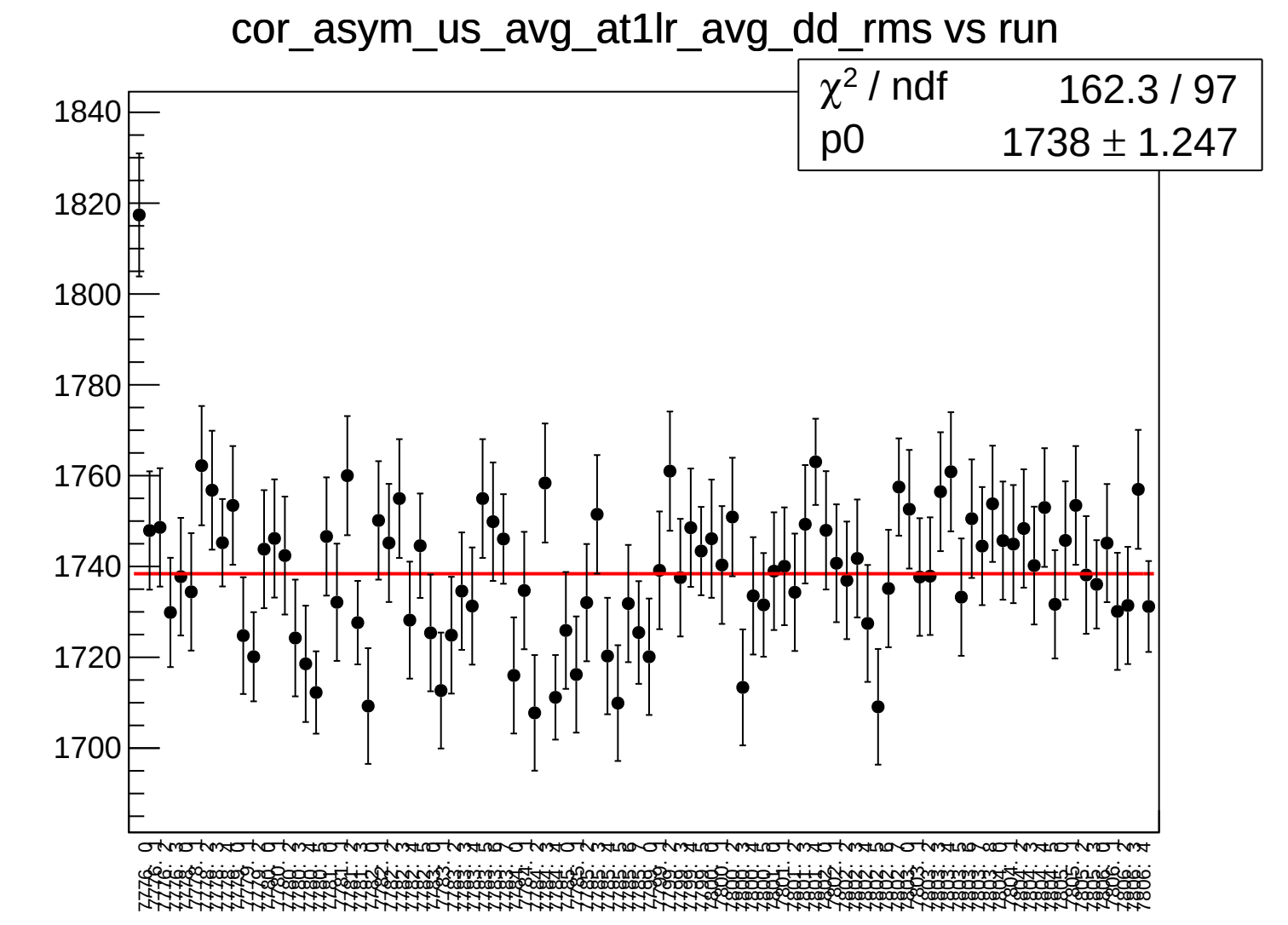

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 82.67 / 97
p0 411.9 ± 697.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 461.8
Std Dev 0
2
1
0
−1
−2
−3

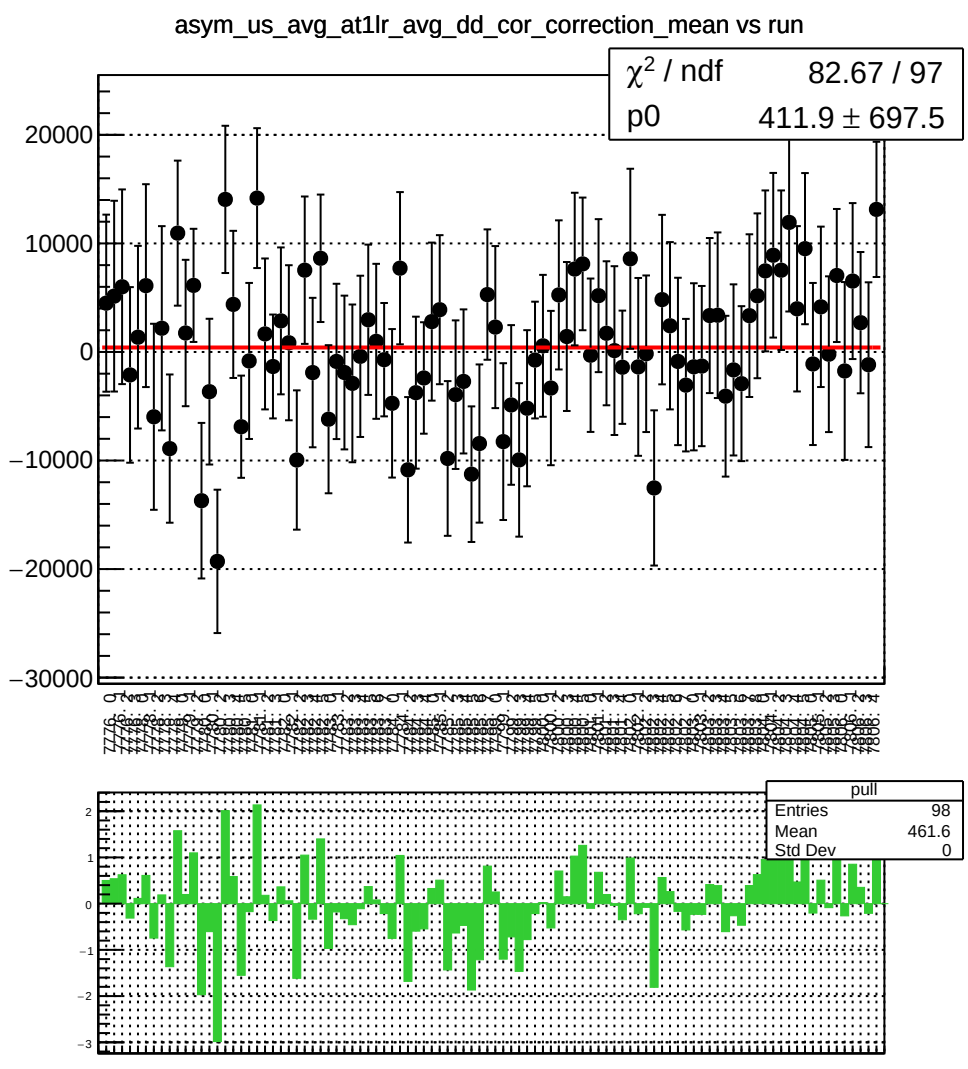

pull1D
Entries 98
Mean 0.01111
Std Dev 0.9184
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

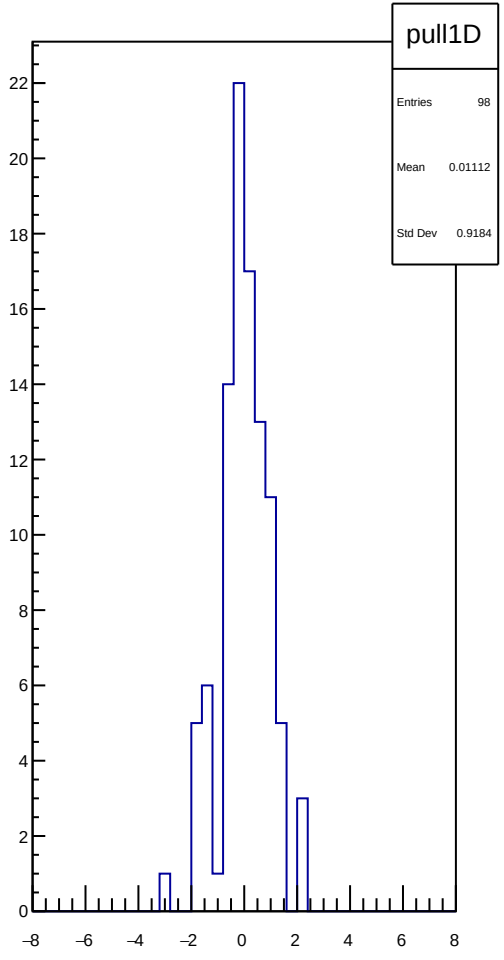

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.322e+04 / 97
p0 685.1 ± 0.4932
900
850
800
750
700
650
600

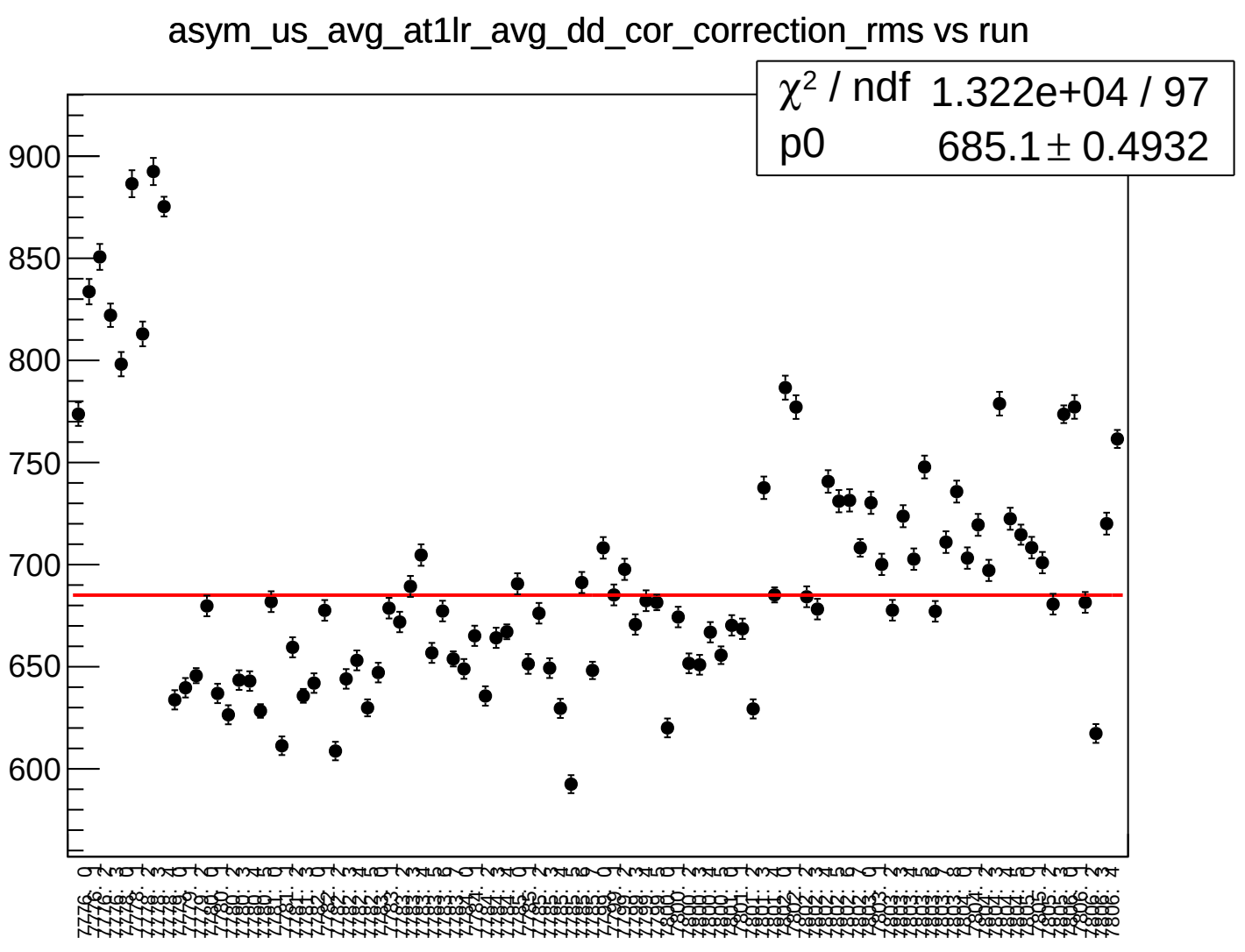

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.27 / 97
p0 −685.4 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 129.9
Std Dev 56.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

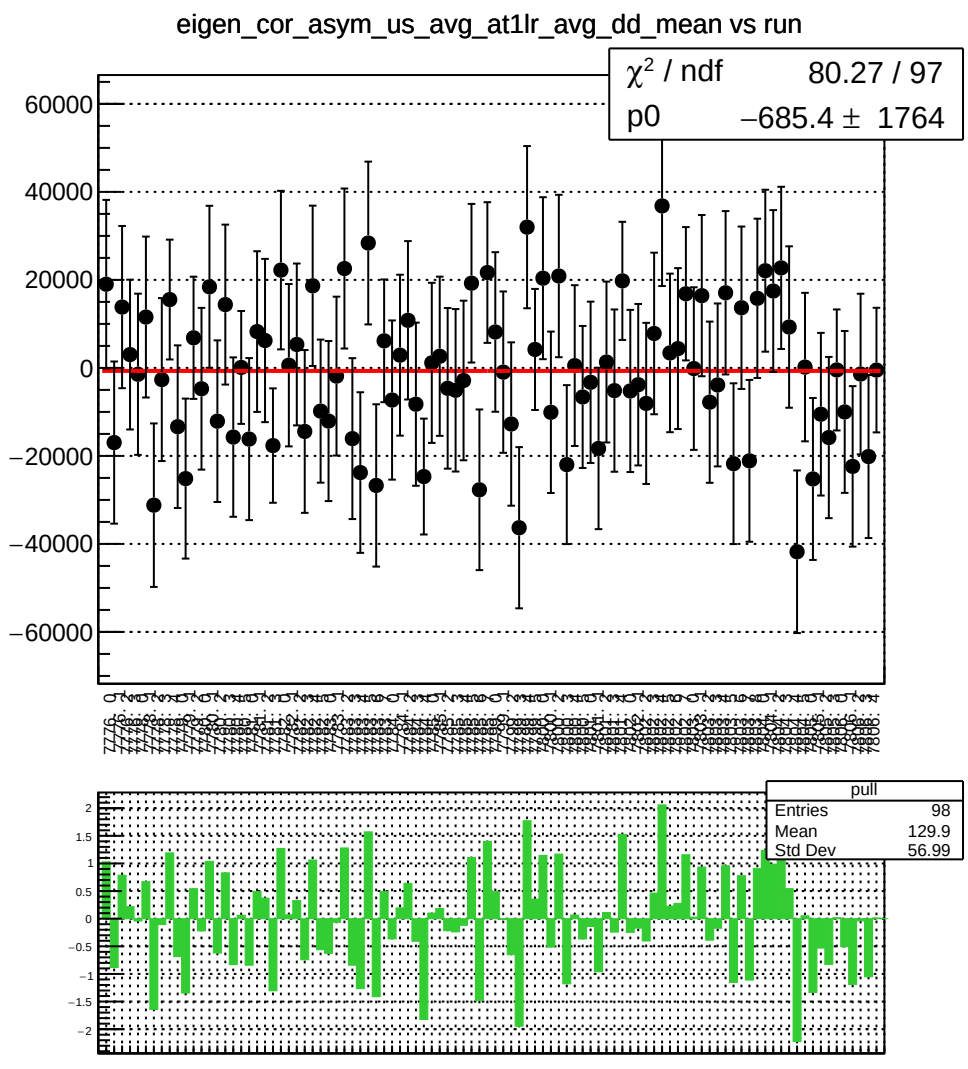

pull1D
Entries 98
Mean −0.005923
Std Dev 0.905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

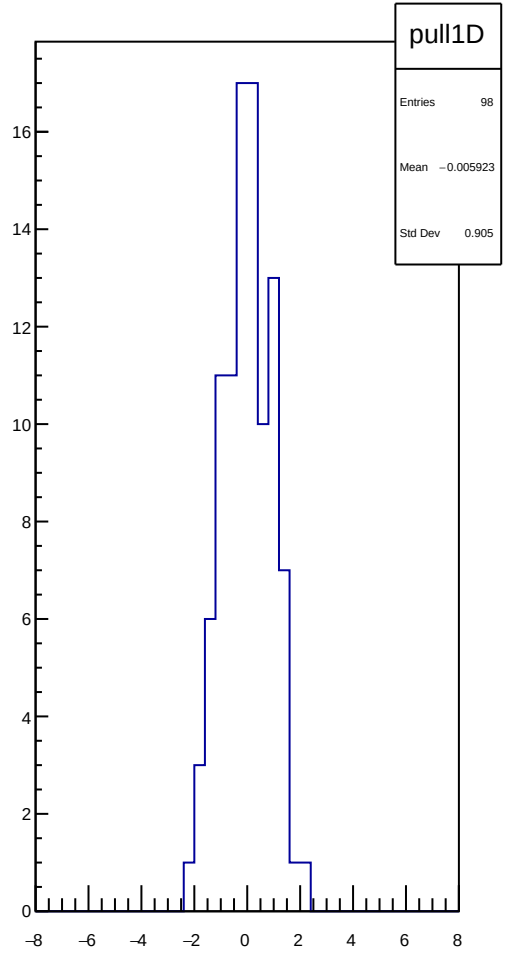

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 162.3 / 97
p0 1738 ± 1.247
1840
1820
1800
1780
1760
1740
1720
1700

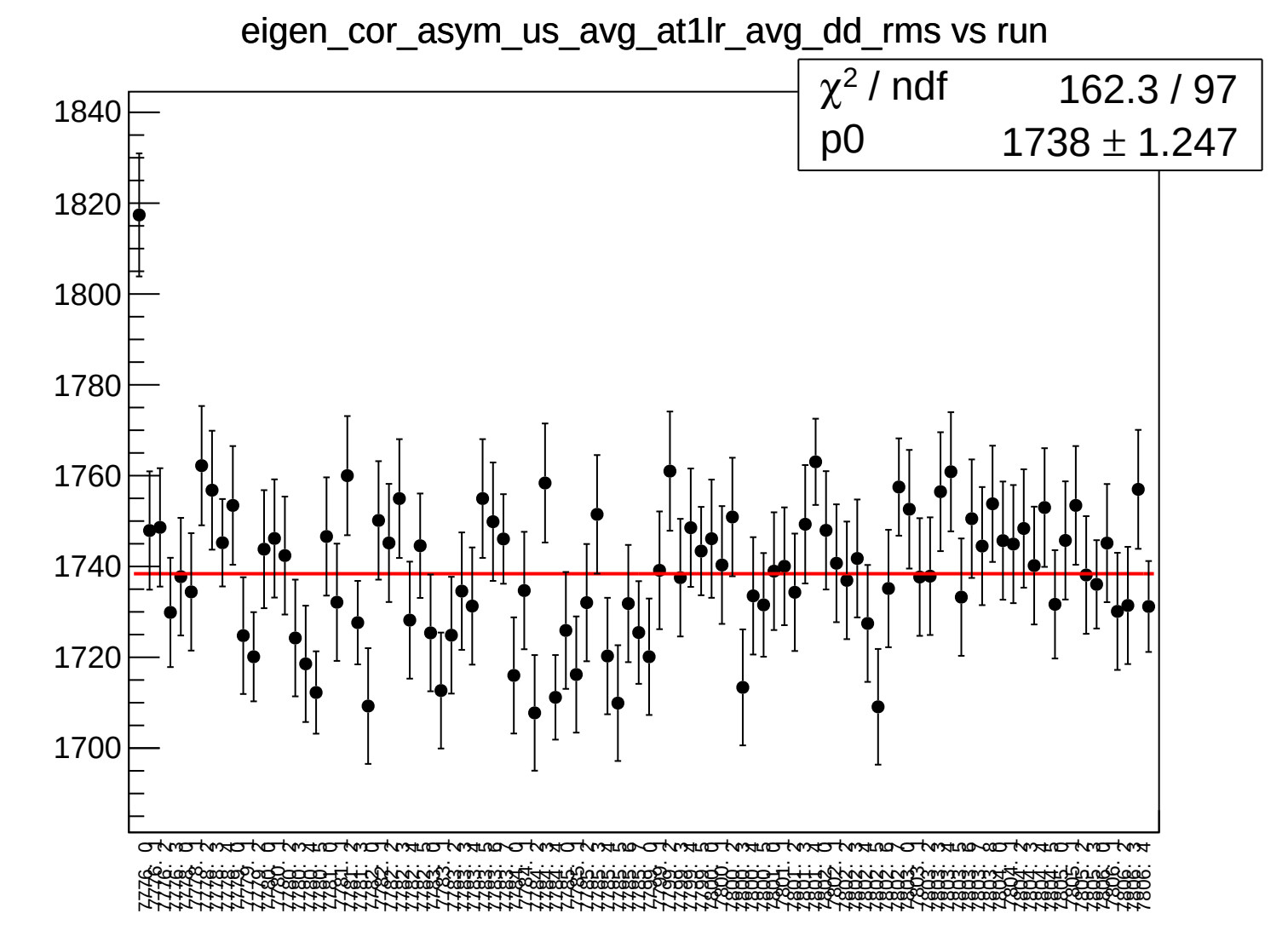

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 82.67 / 97
p0 411.9 ± 697.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 461.6
Std Dev 0
2
1
0
−1
−2
−3

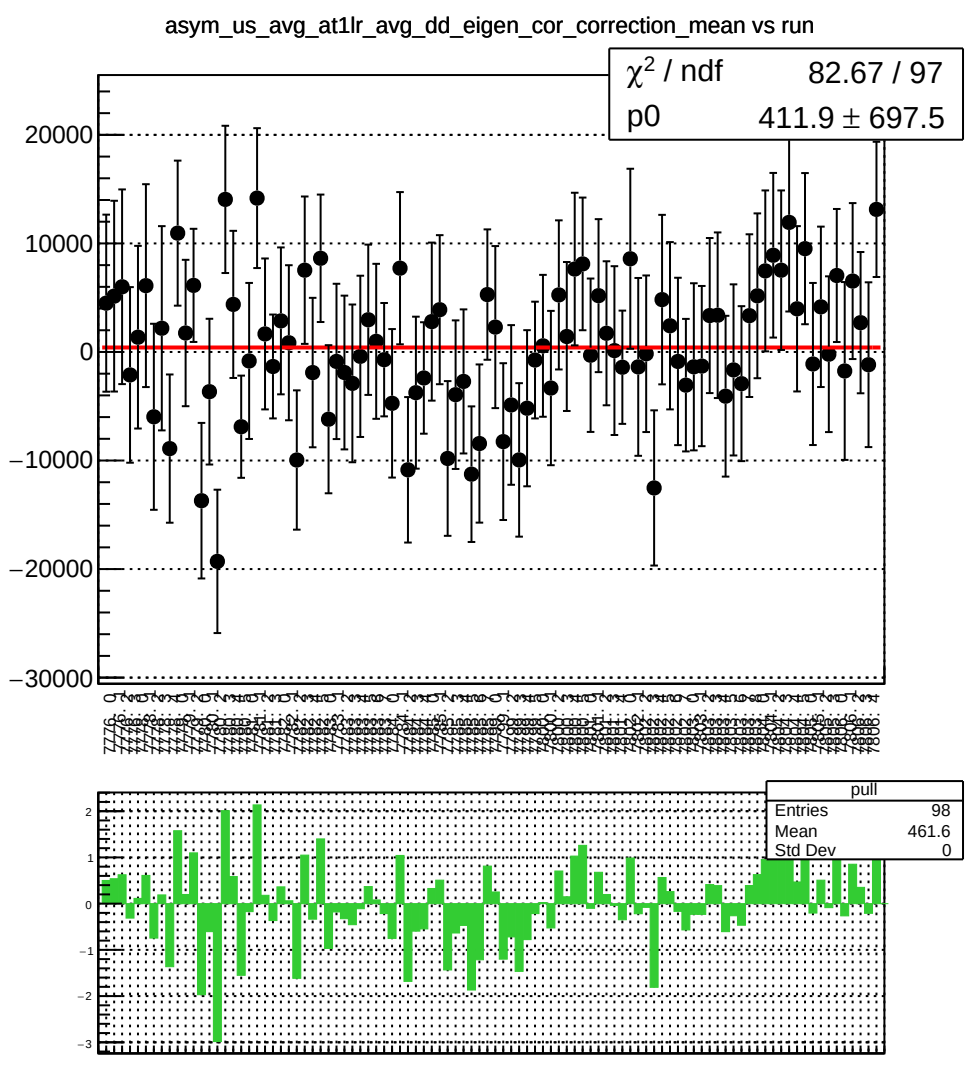

pull1D
Entries 98
Mean 0.01112
Std Dev 0.9184
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

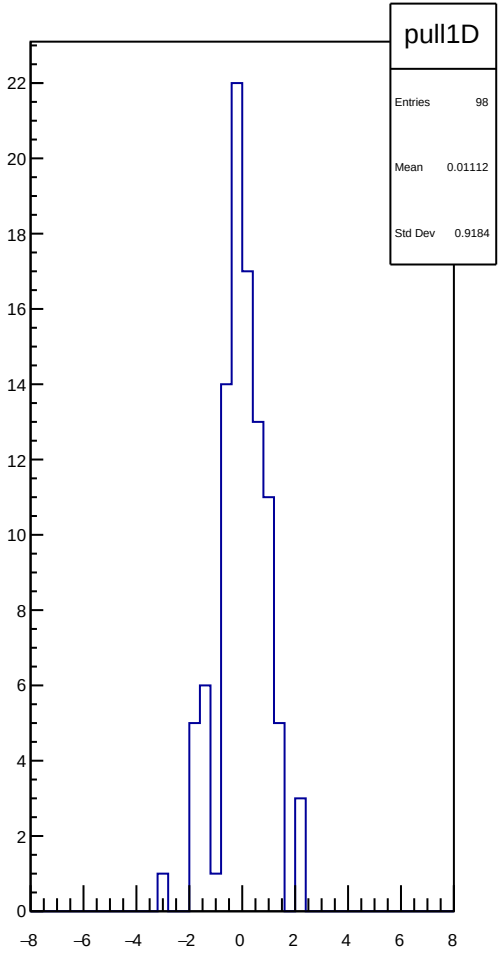

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.322e+04 / 97
p0 685.1 ± 0.4932
900
850
800
750
700
650
600

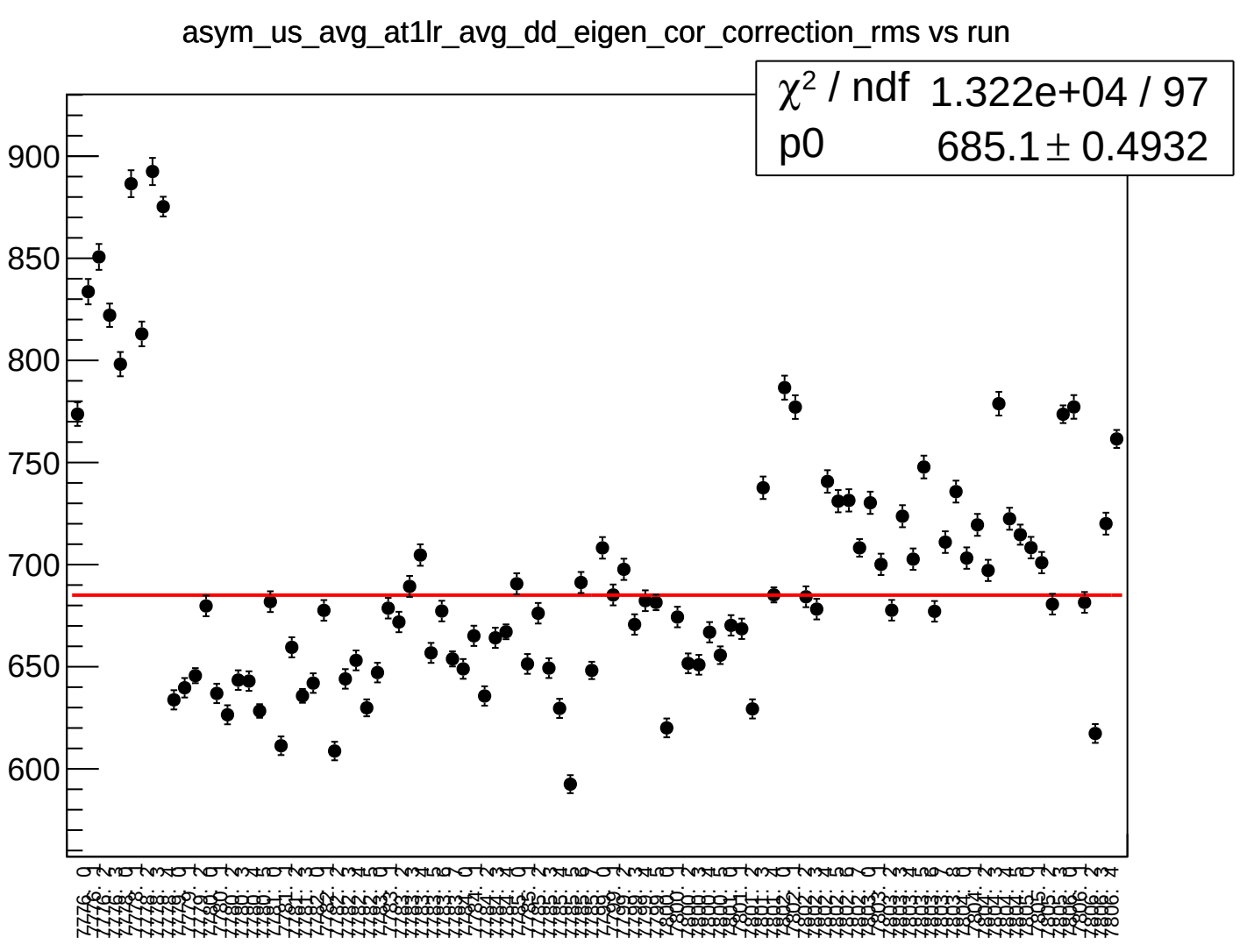

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.27 / 97
p0 −685.4 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 129.9
Std Dev 56.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

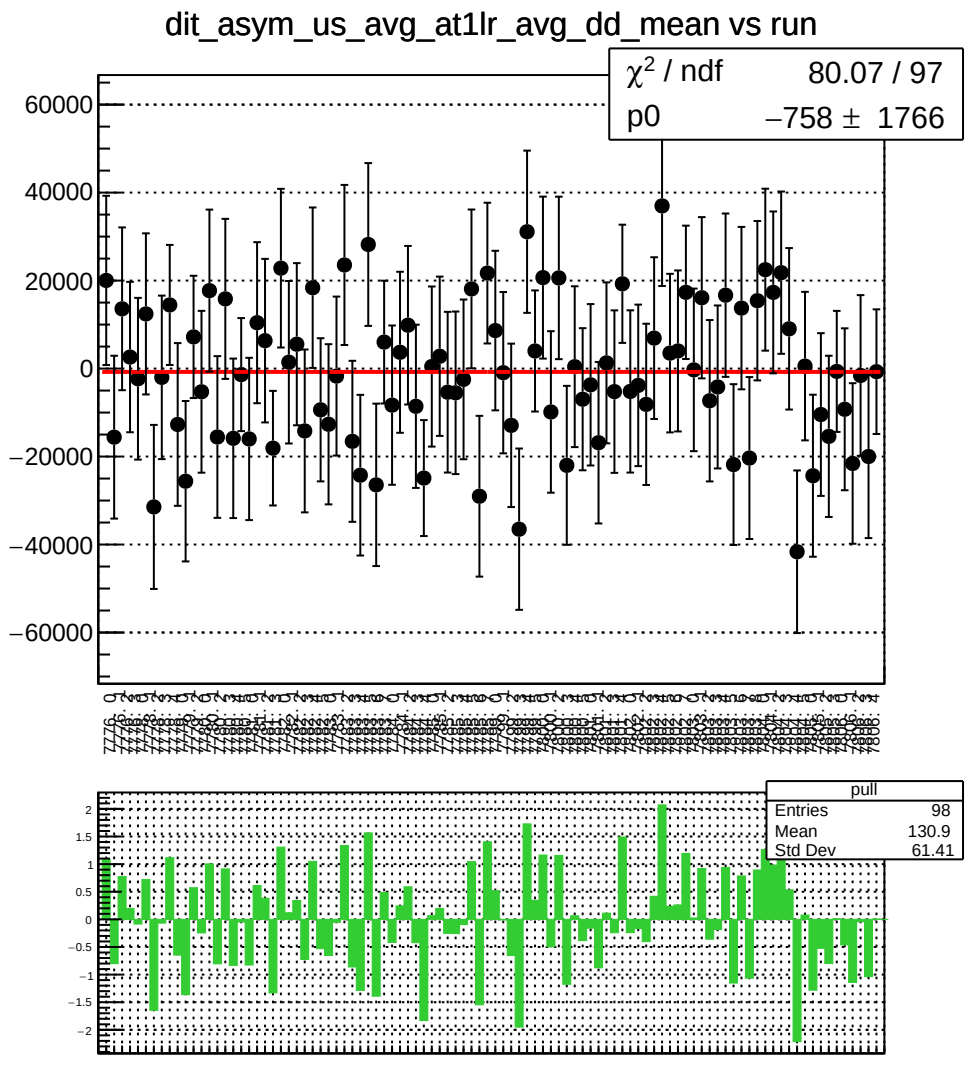

pull1D
Entries 98
Mean −0.005923
Std Dev 0.905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

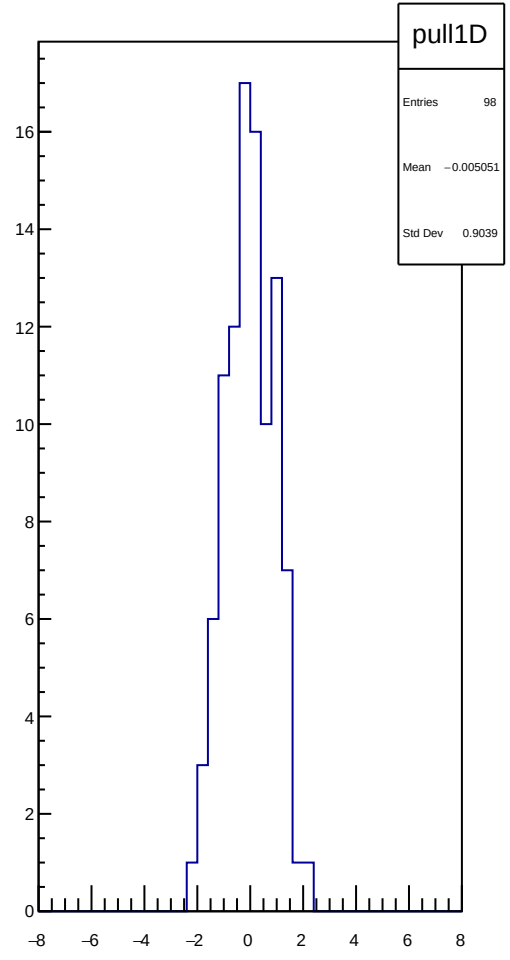

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 162.3 / 97
p0 1738 ± 1.247
1840
1820
1800
1780
1760
1740
1720
1700

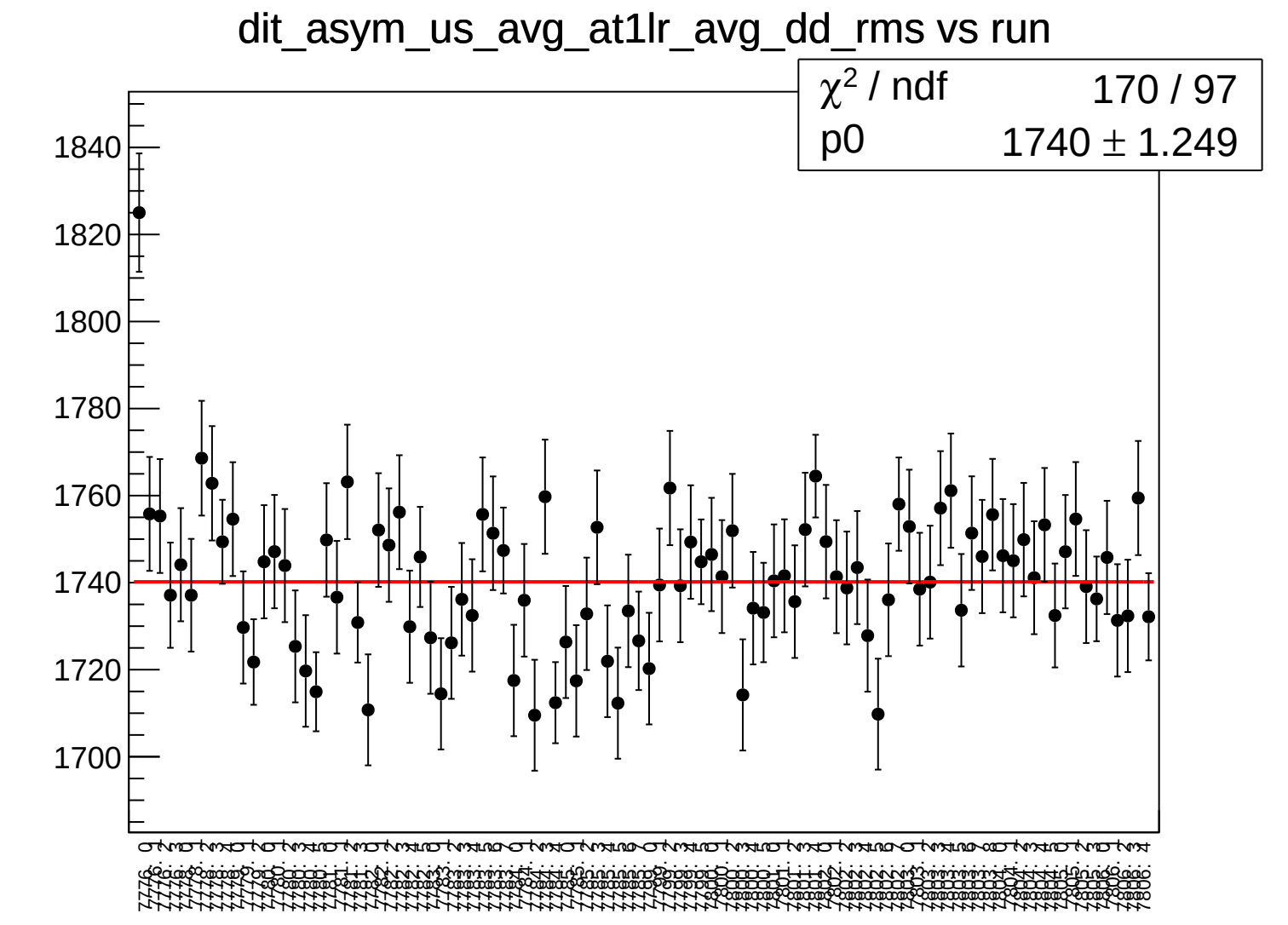

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.67 / 97
p0 411.9 ± 697.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 461.6
Std Dev 0
2
1
0
−1
−2
−3

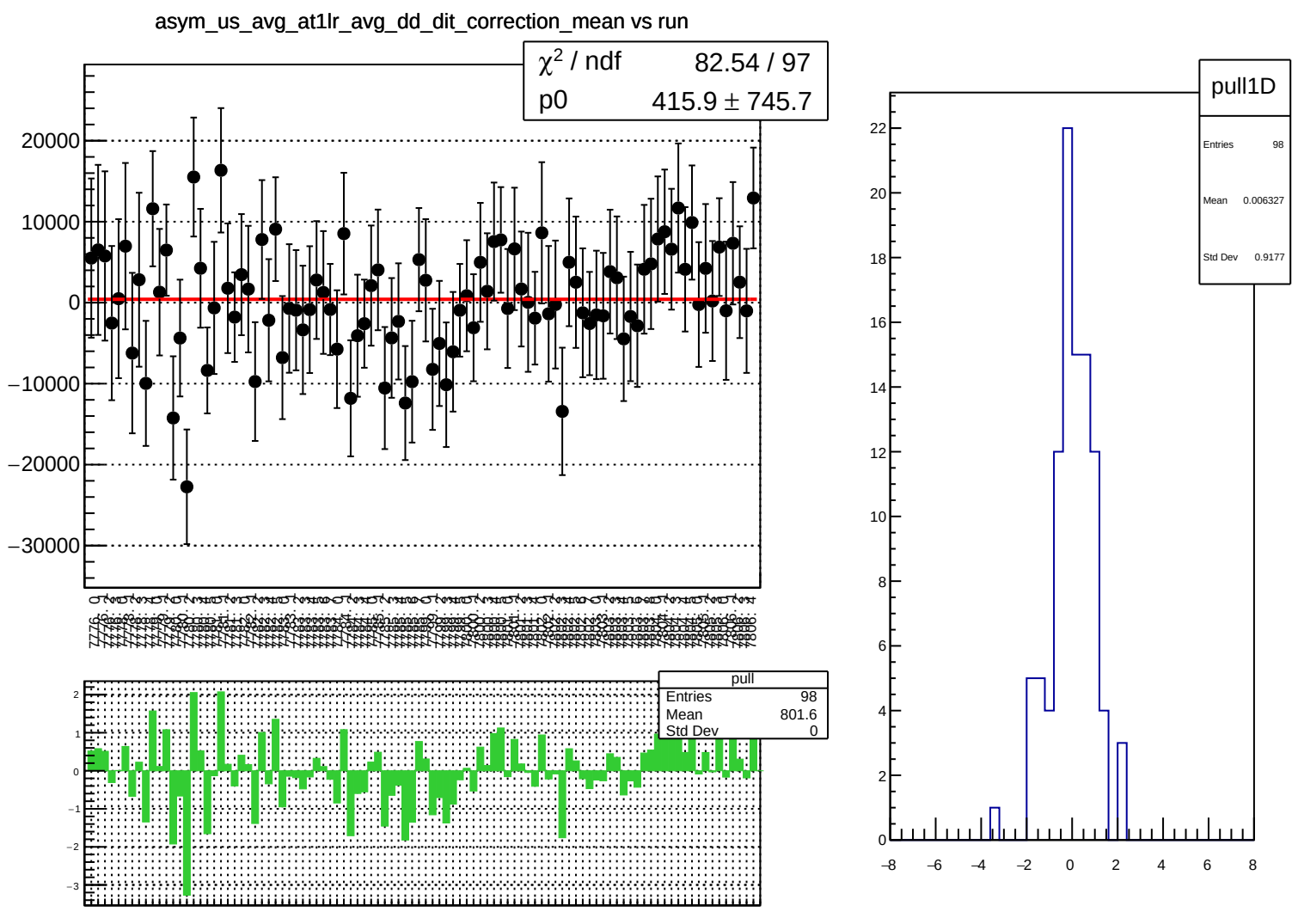

pull1D
Entries 98
Mean 0.01112
Std Dev 0.9184
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

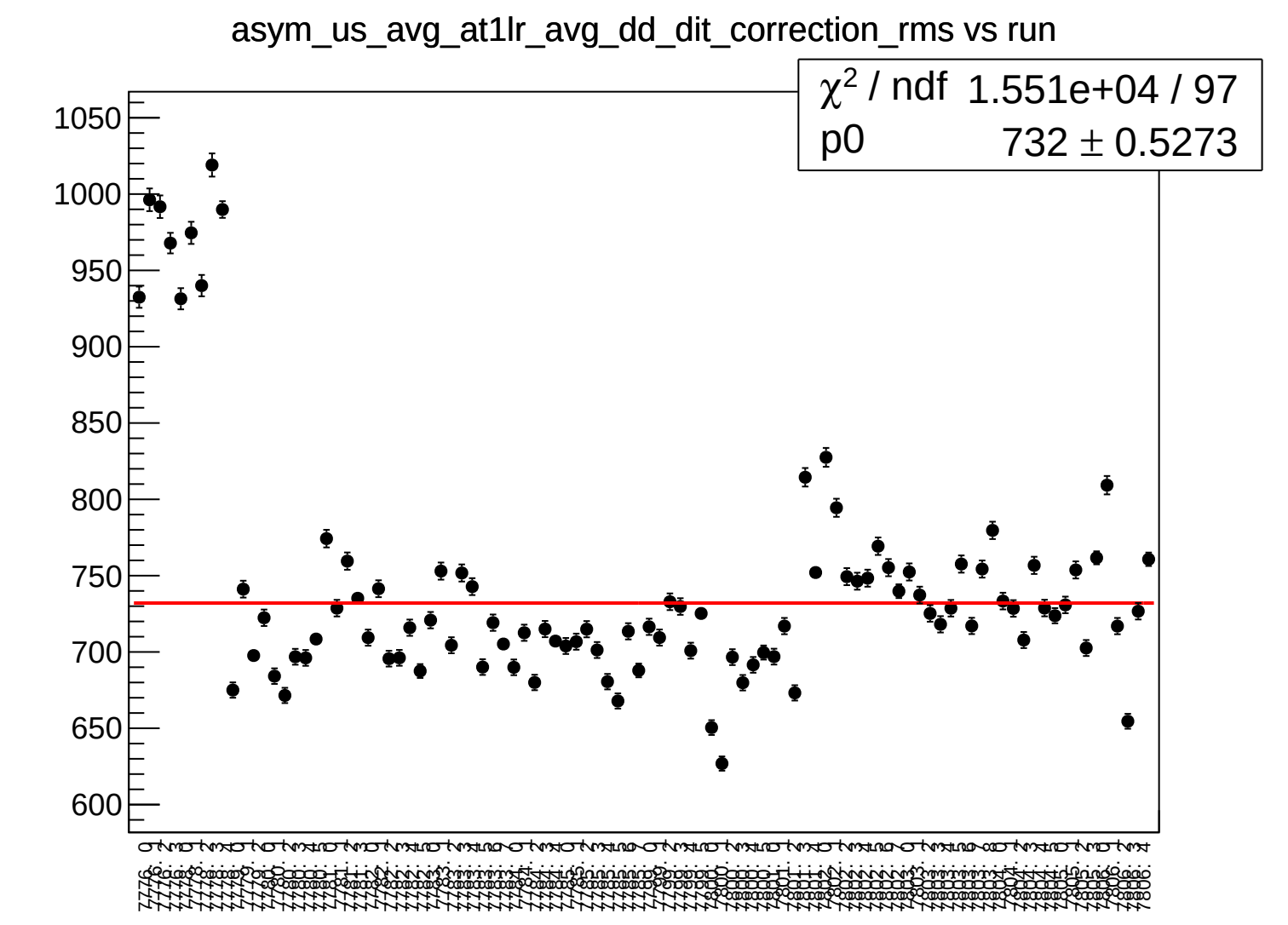

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.322e+04 / 97
p0 685.1 ± 0.4932
900
850
800
750
700
650
600

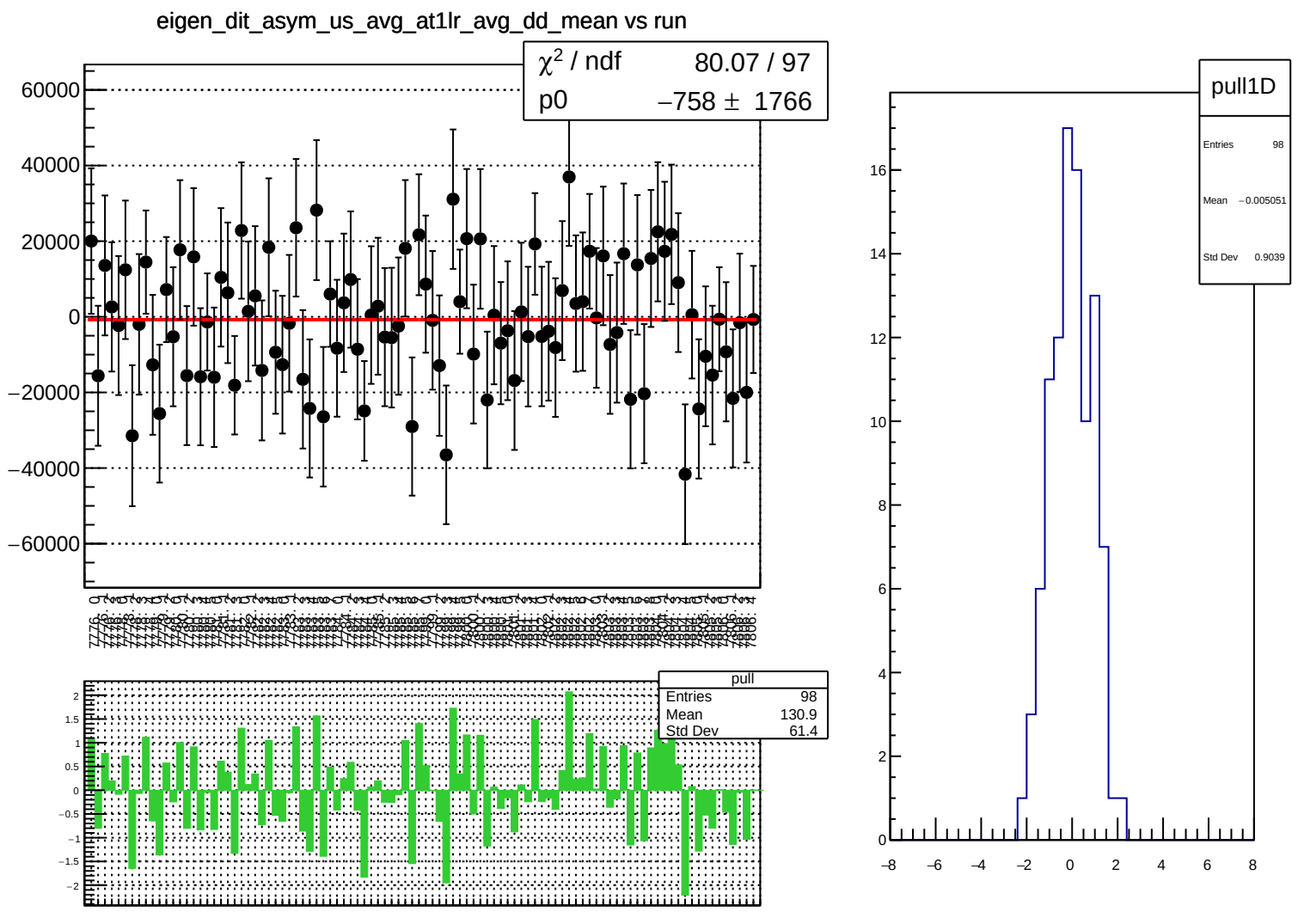

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.07 / 97
p0 −758 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 130.9
Std Dev 61.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

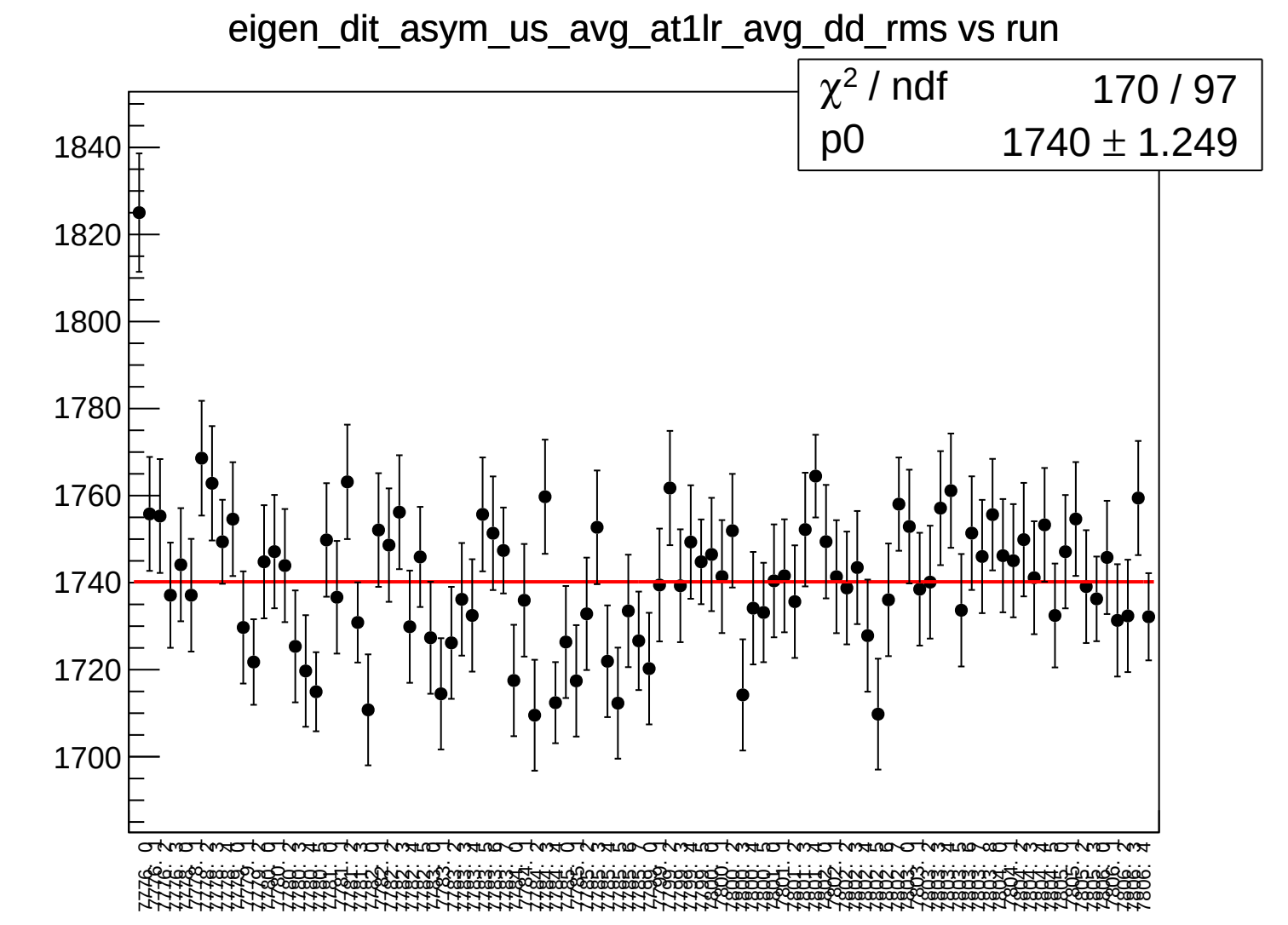

pull1D
Entries 98
Mean −0.005051
Std Dev 0.9039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

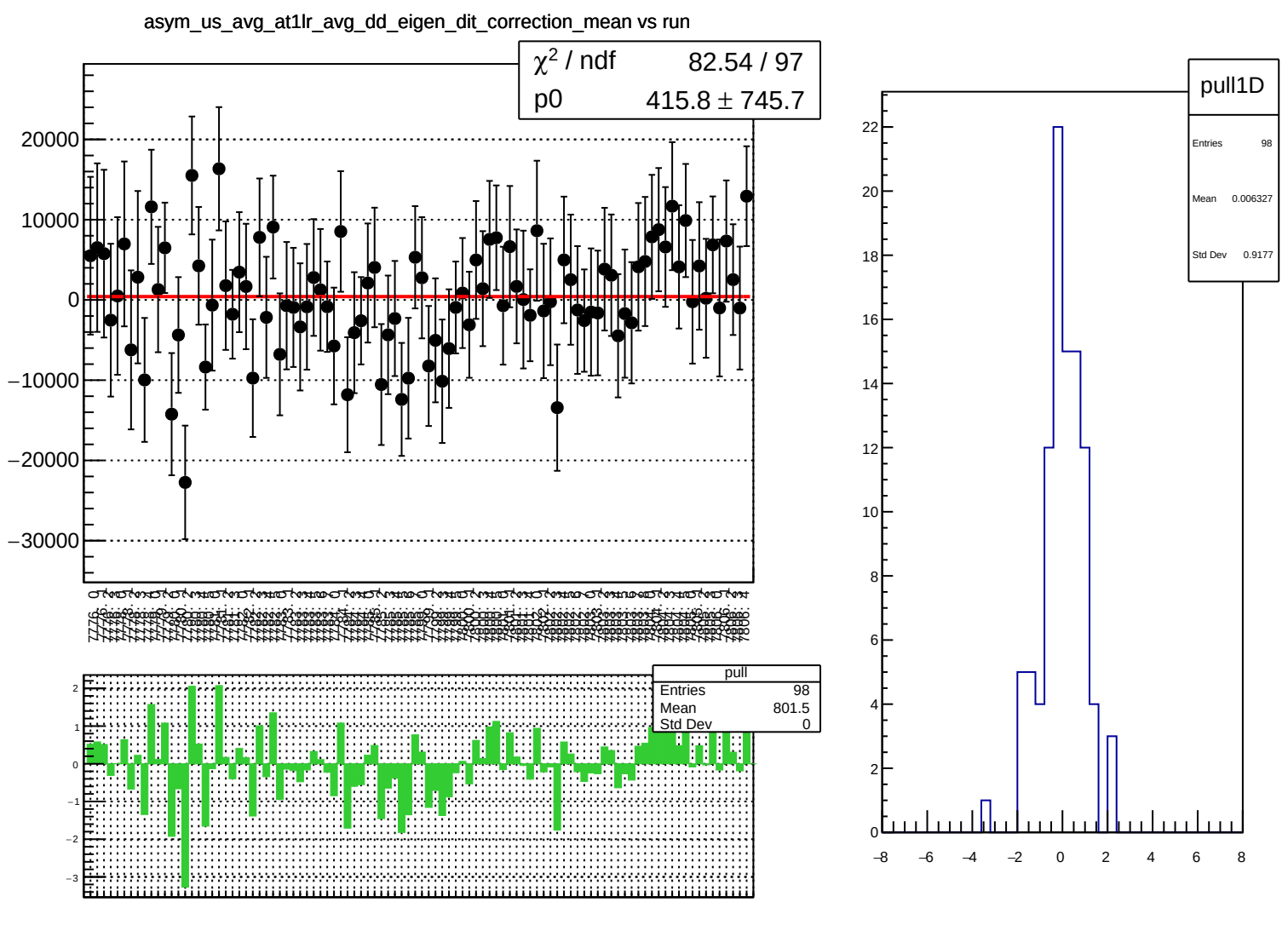

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 170 / 97
p0 1740 ± 1.249
1840
1820
1800
1780
1760
1740
1720
1700

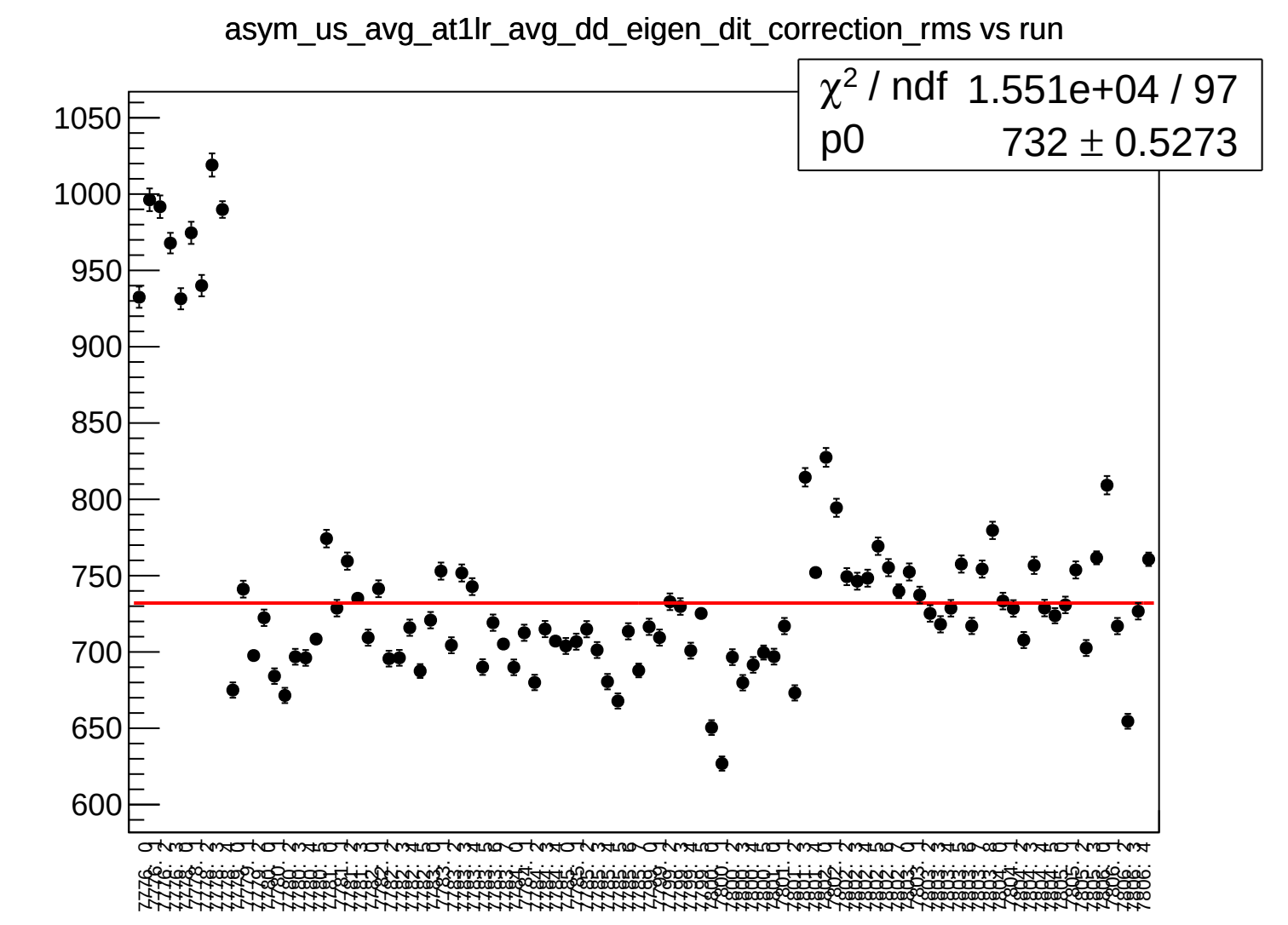

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 82.54 / 97
p0 415.9 ± 745.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 801.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.006327
Std Dev 0.9177
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

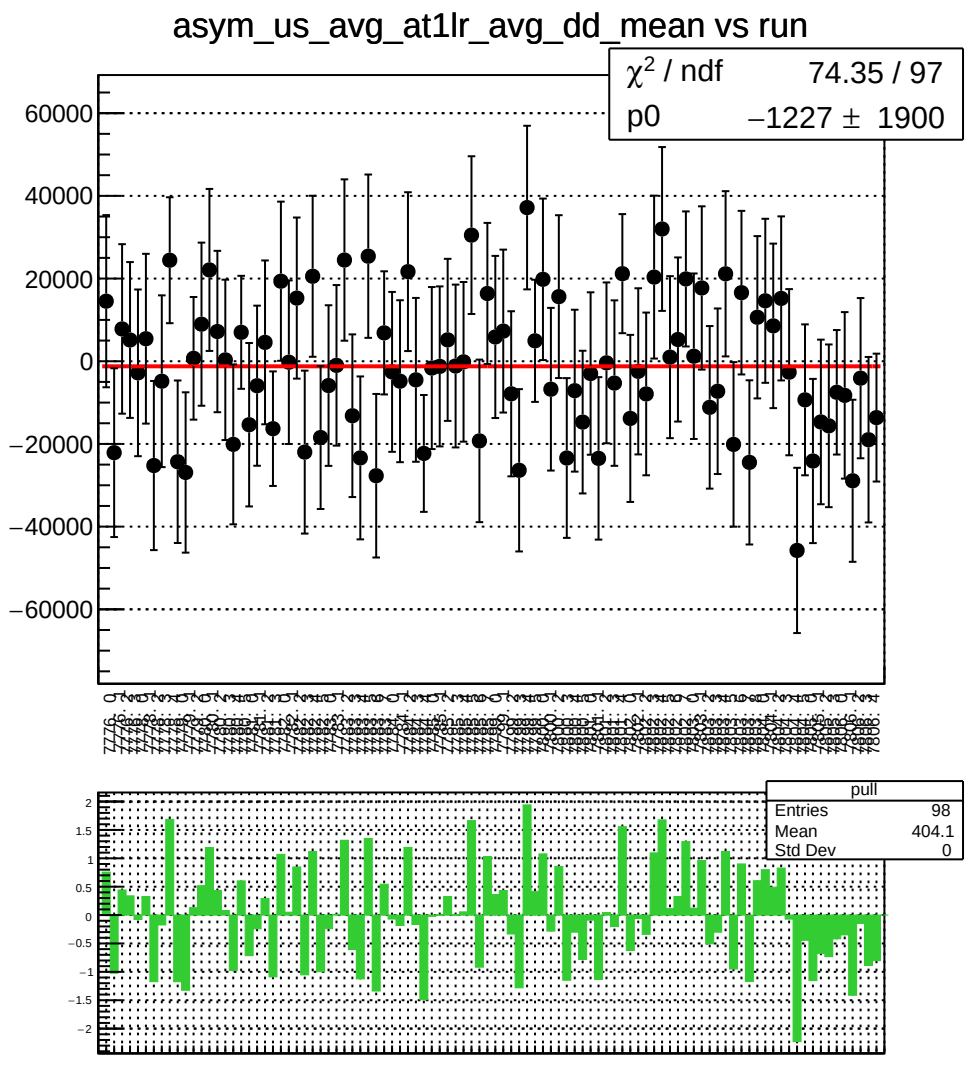

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ^2 / ndf 1.551e+04 / 97
p0 732 ± 0.5273
1050
1000
950
900
850
800
750
700
650
600

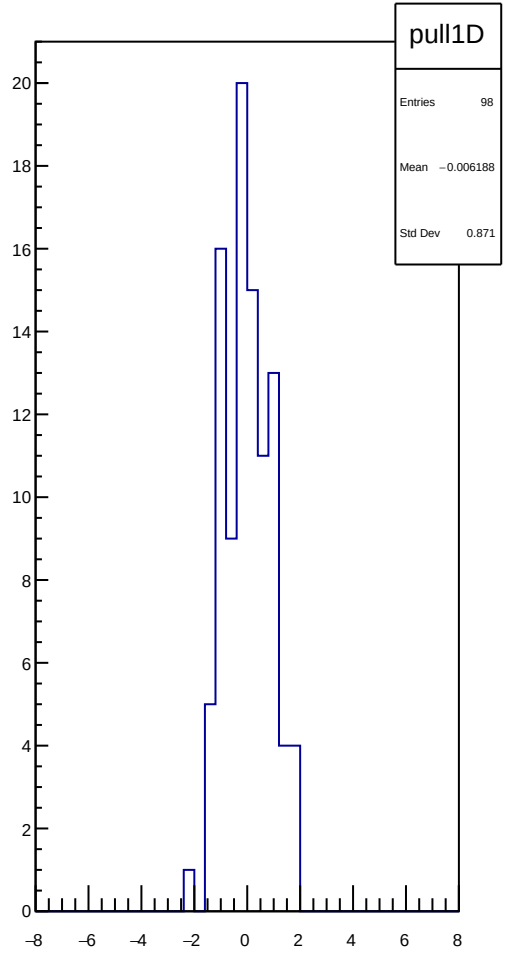

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.07 / 97
p0 −758 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 130.9
Std Dev 61.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.005051
Std Dev 0.9039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

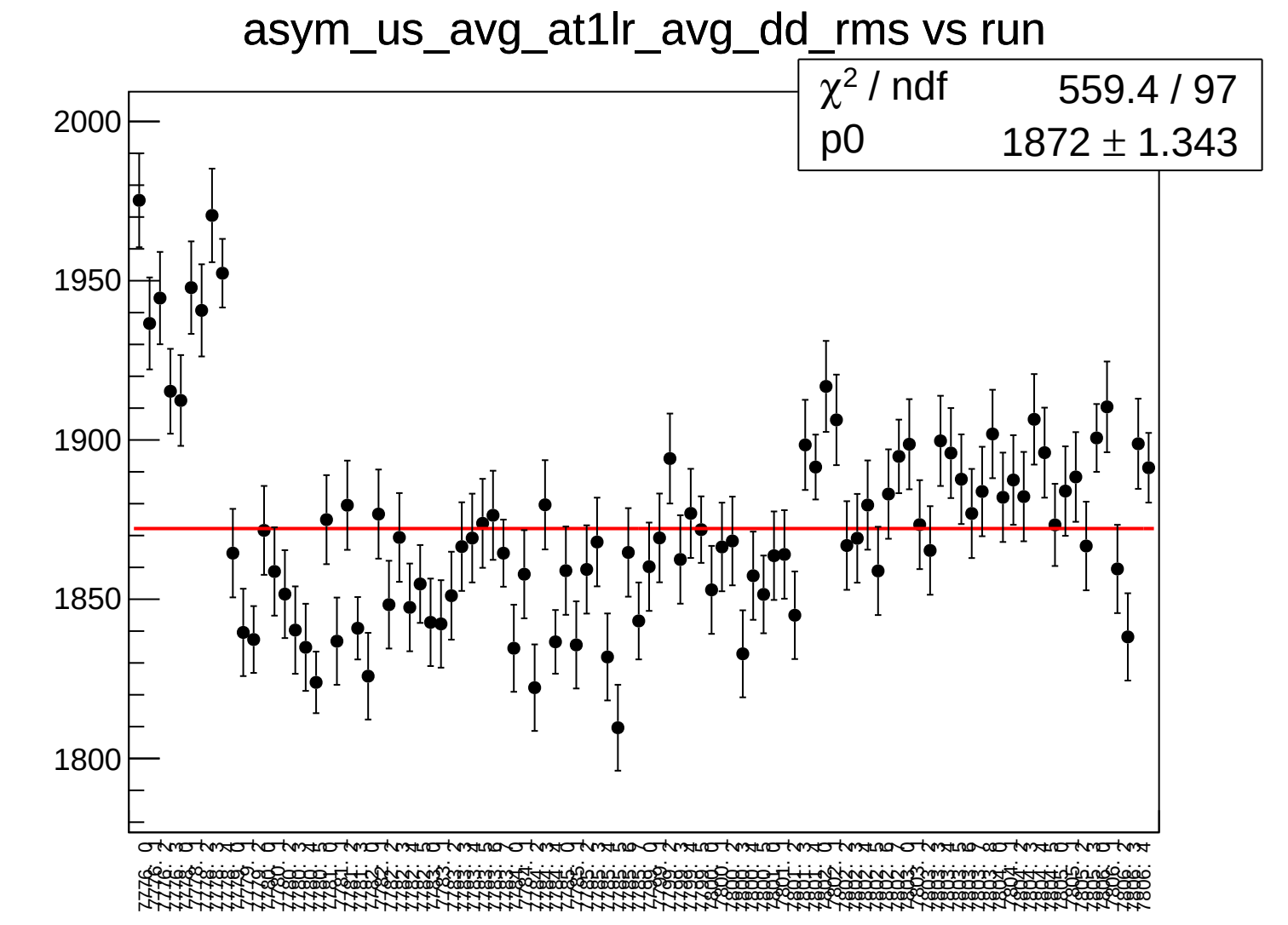

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 170 / 97
p0 1740 ± 1.249
1840
1820
1800
1780
1760
1740
1720
1700

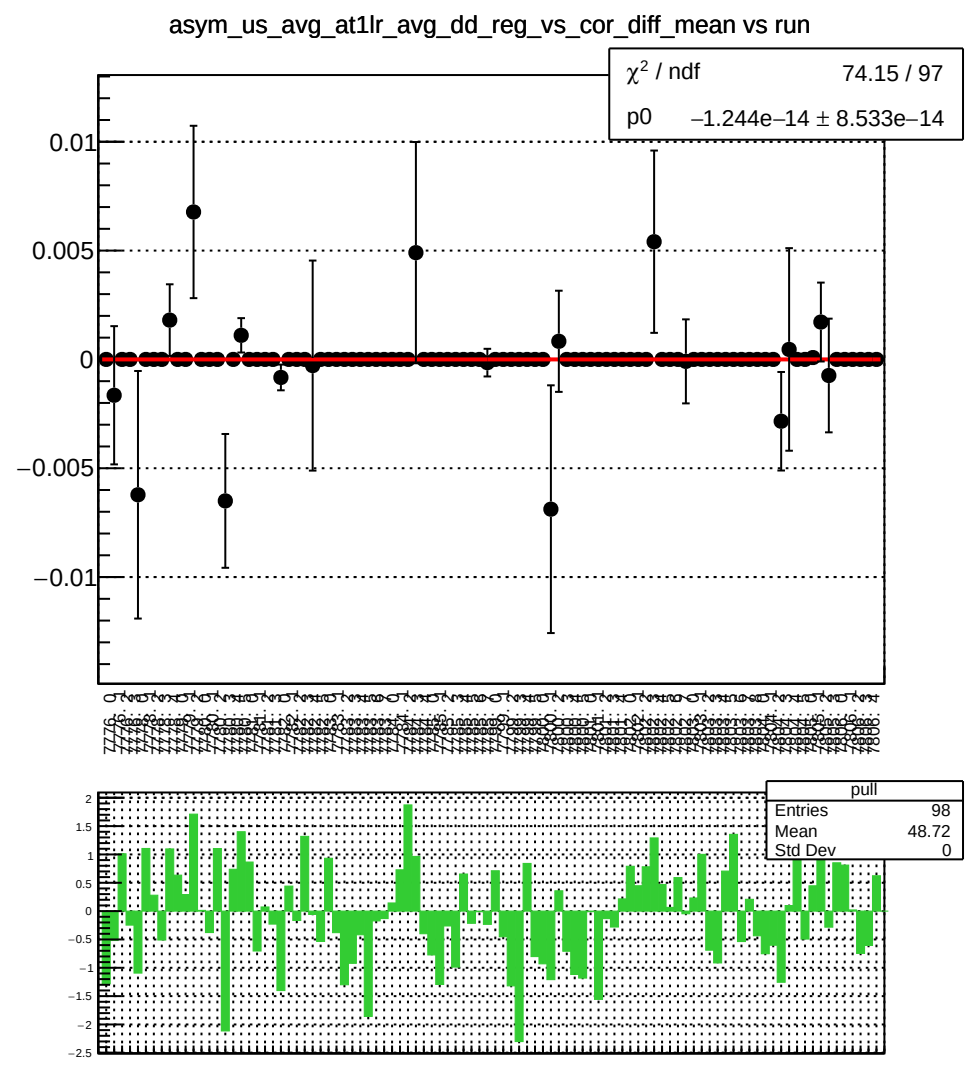

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ^2 / ndf 82.54 / 97
p0 415.8 ± 745.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 801.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.006327
Std Dev 0.9177
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

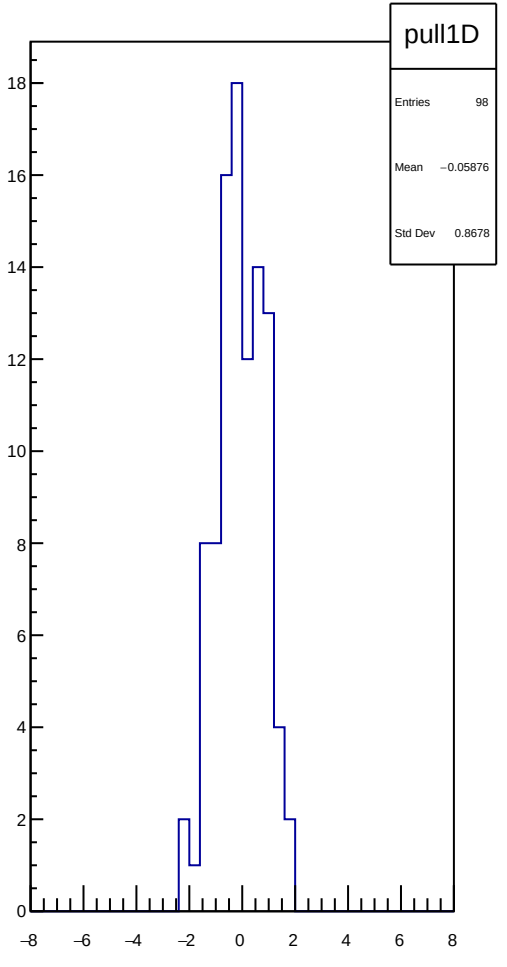

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.551e+04 / 97
p0 732 ± 0.5273
1050
1000
950
900
850
800
750
700
650
600

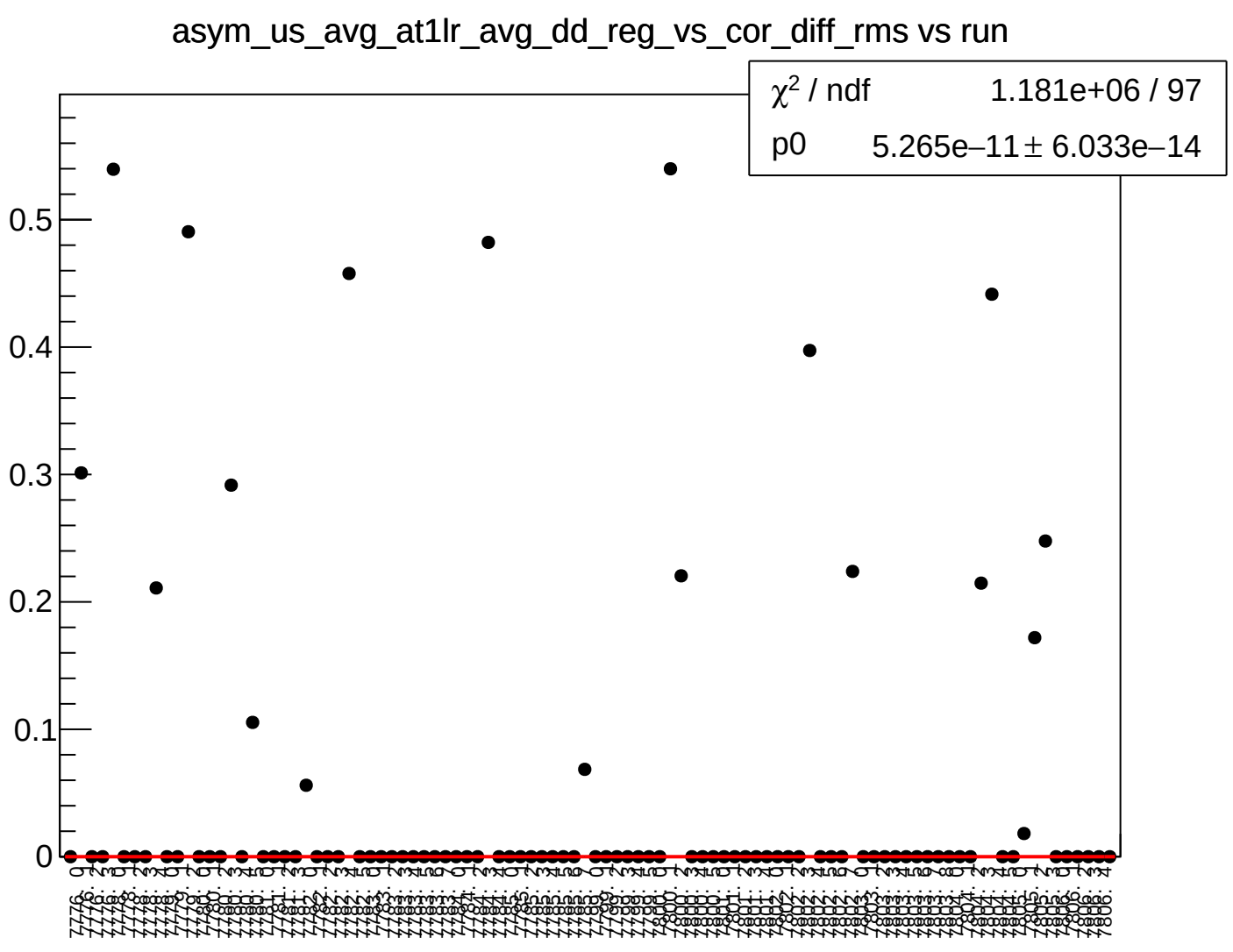

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 74.35 / 97
p0 −1227 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 404.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

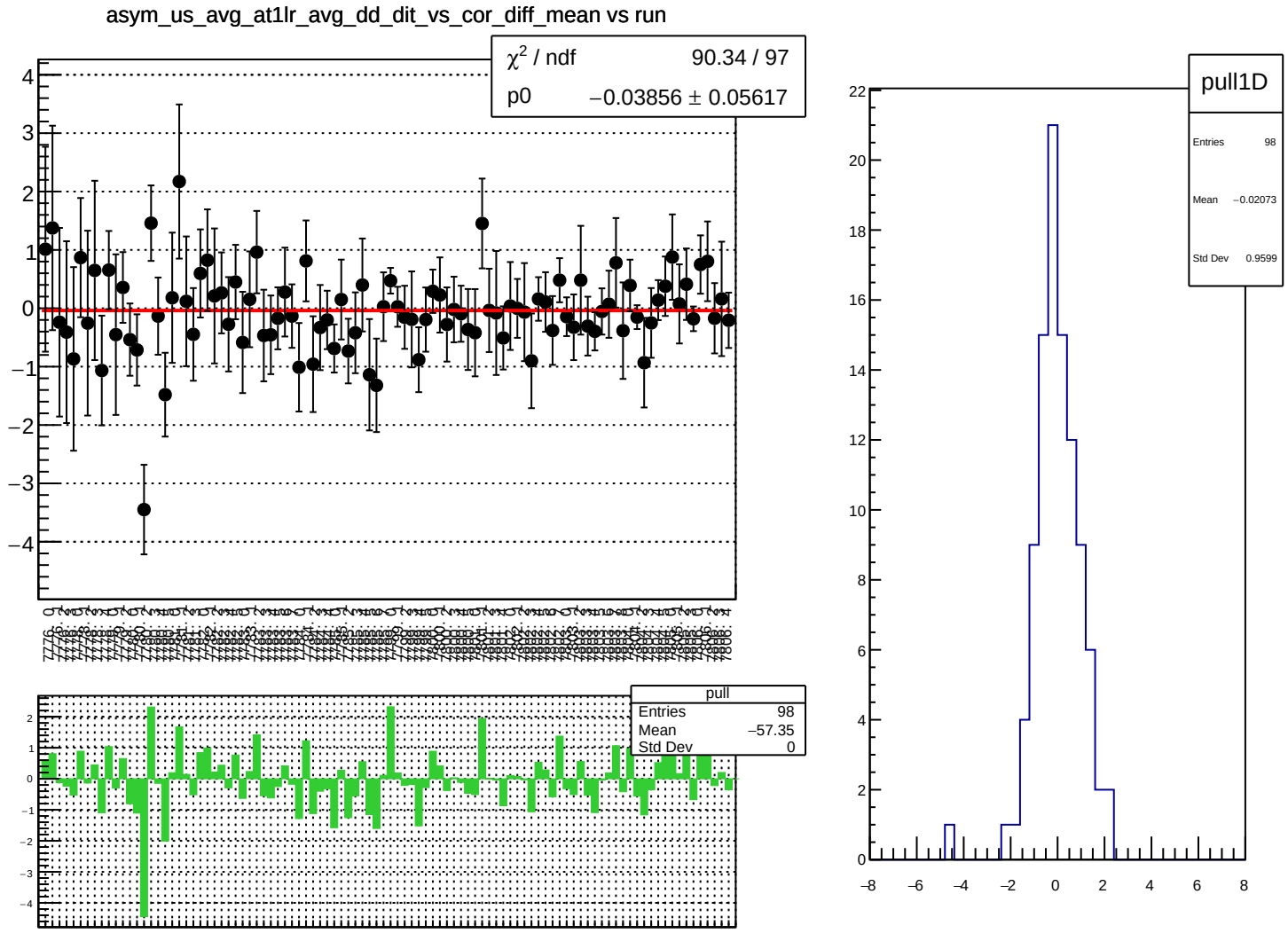

pull1D
Entries 98
Mean −0.006188
Std Dev 0.871
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

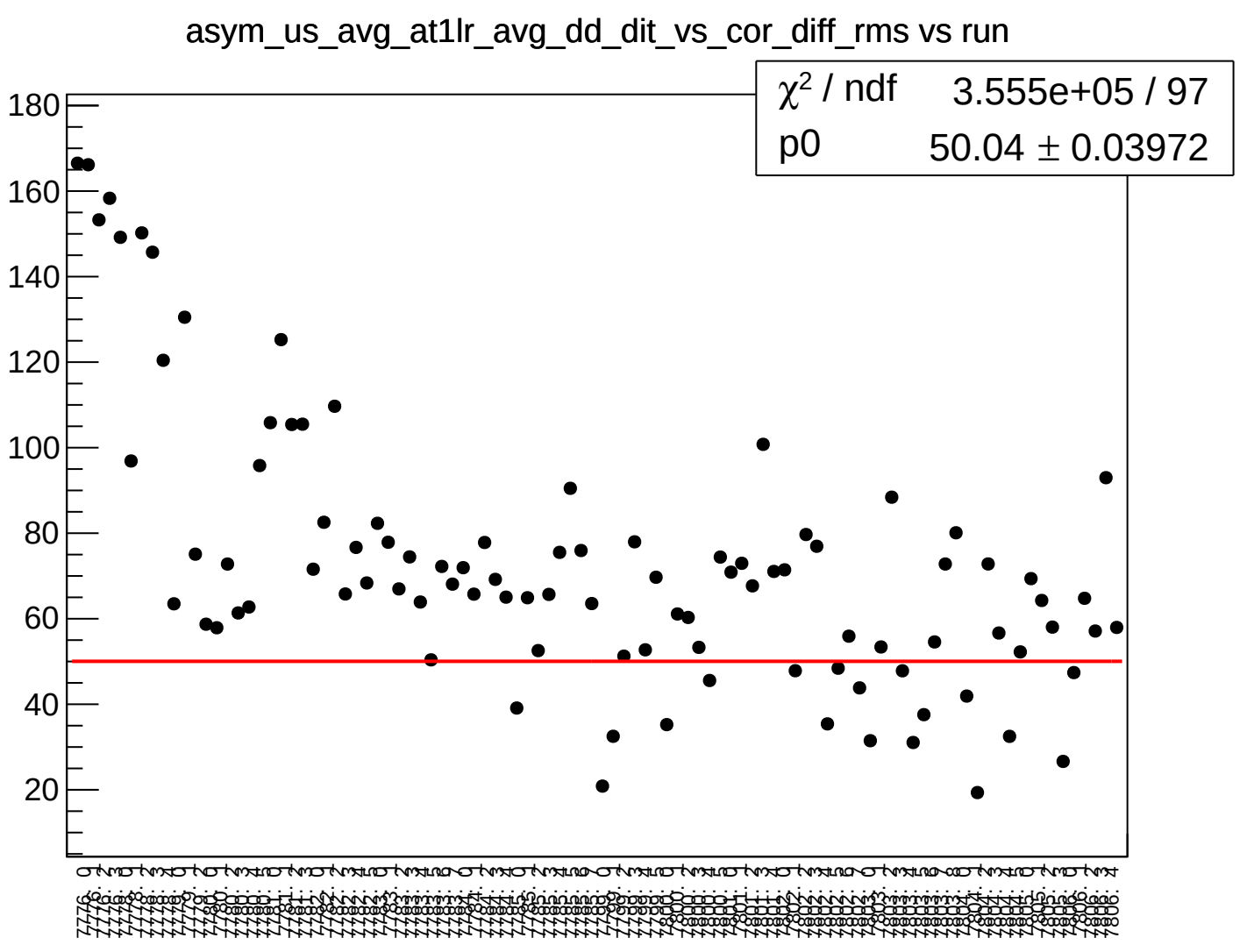

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 559.4 / 97
p0 1872 ± 1.343
2000
1950
1900
1850
1800

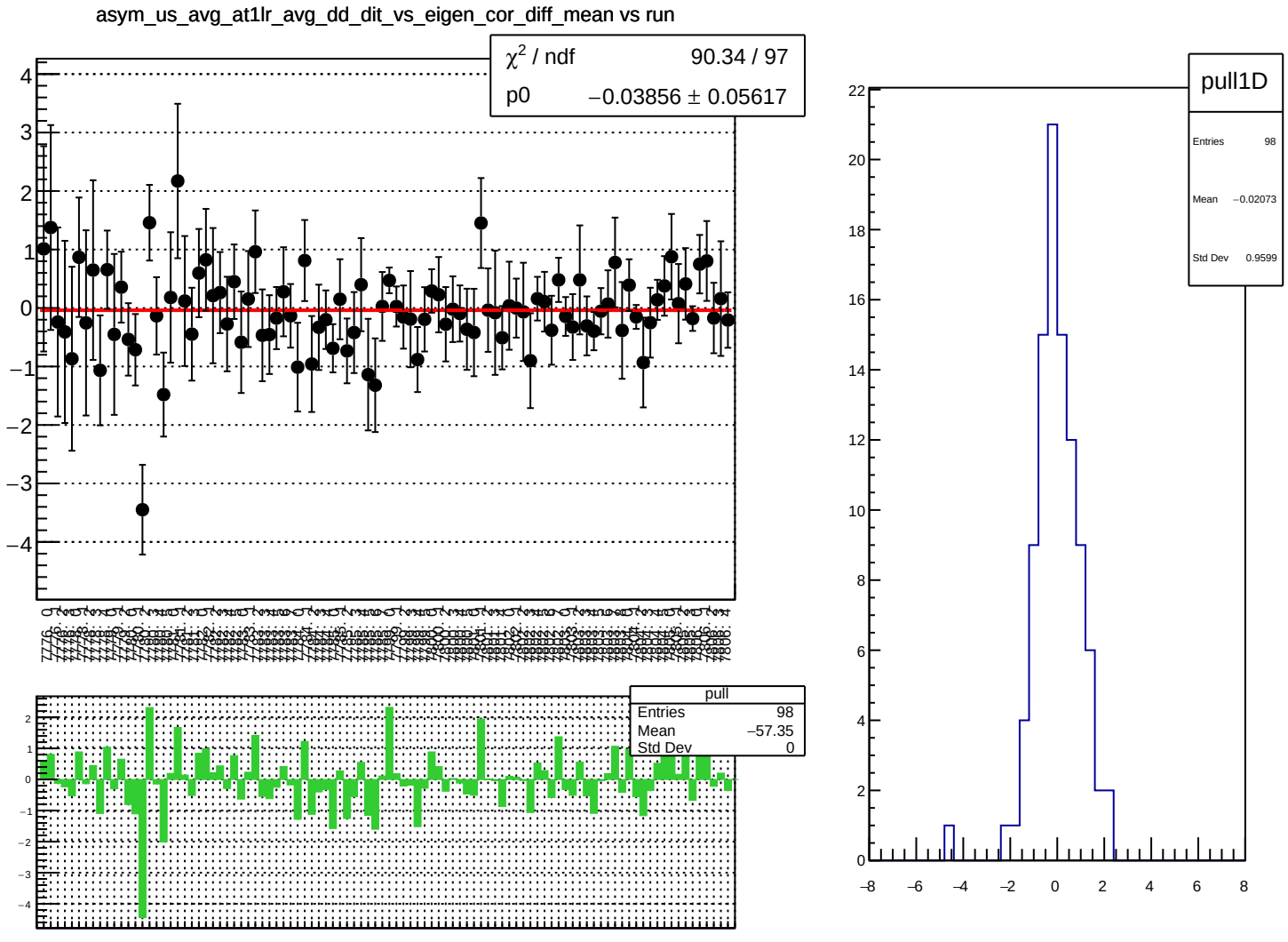

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.15 / 97
p0 −1.244e−14 ± 8.533e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 98
Mean 48.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

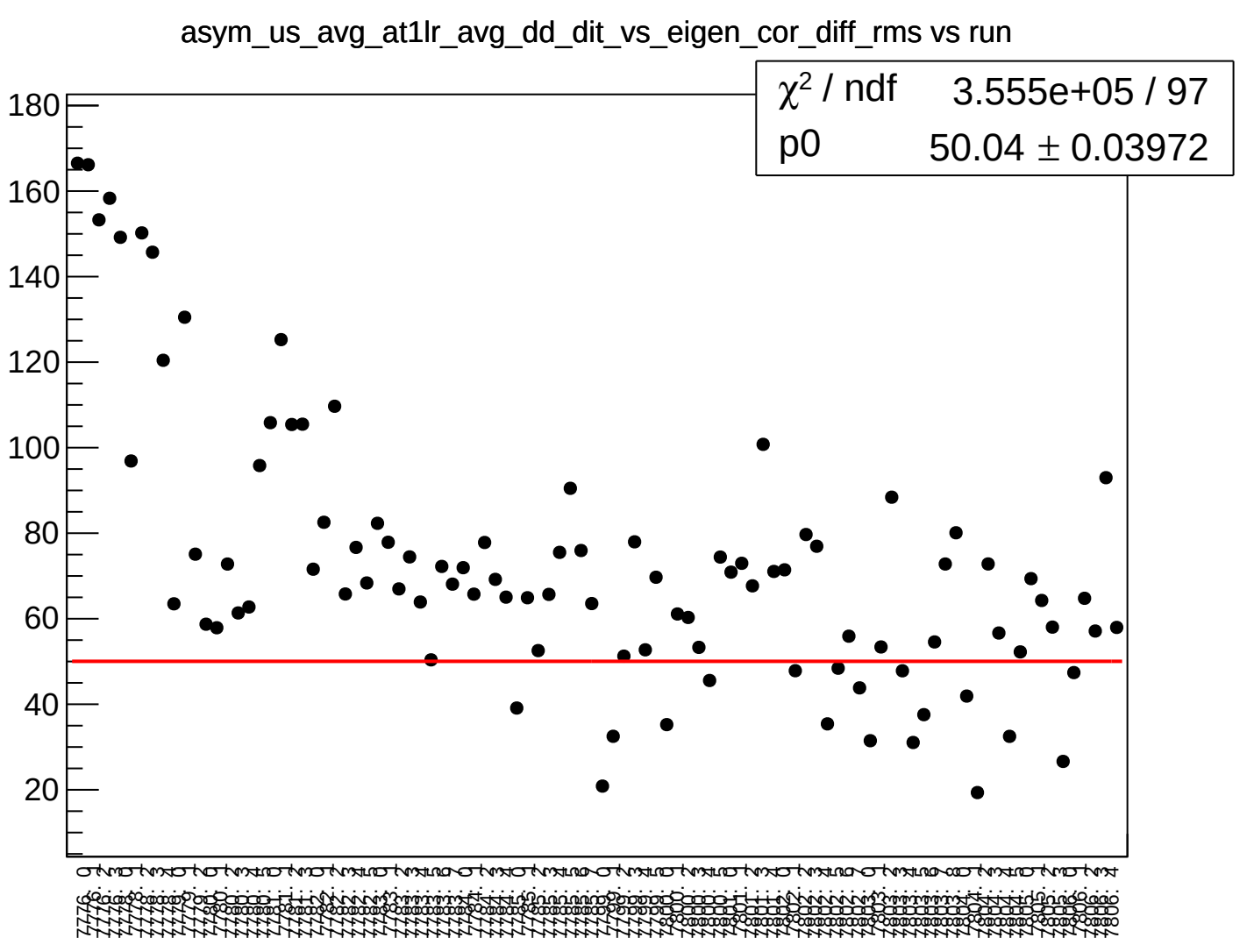

pull1D
Entries 98
Mean −0.05876
Std Dev 0.8678
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

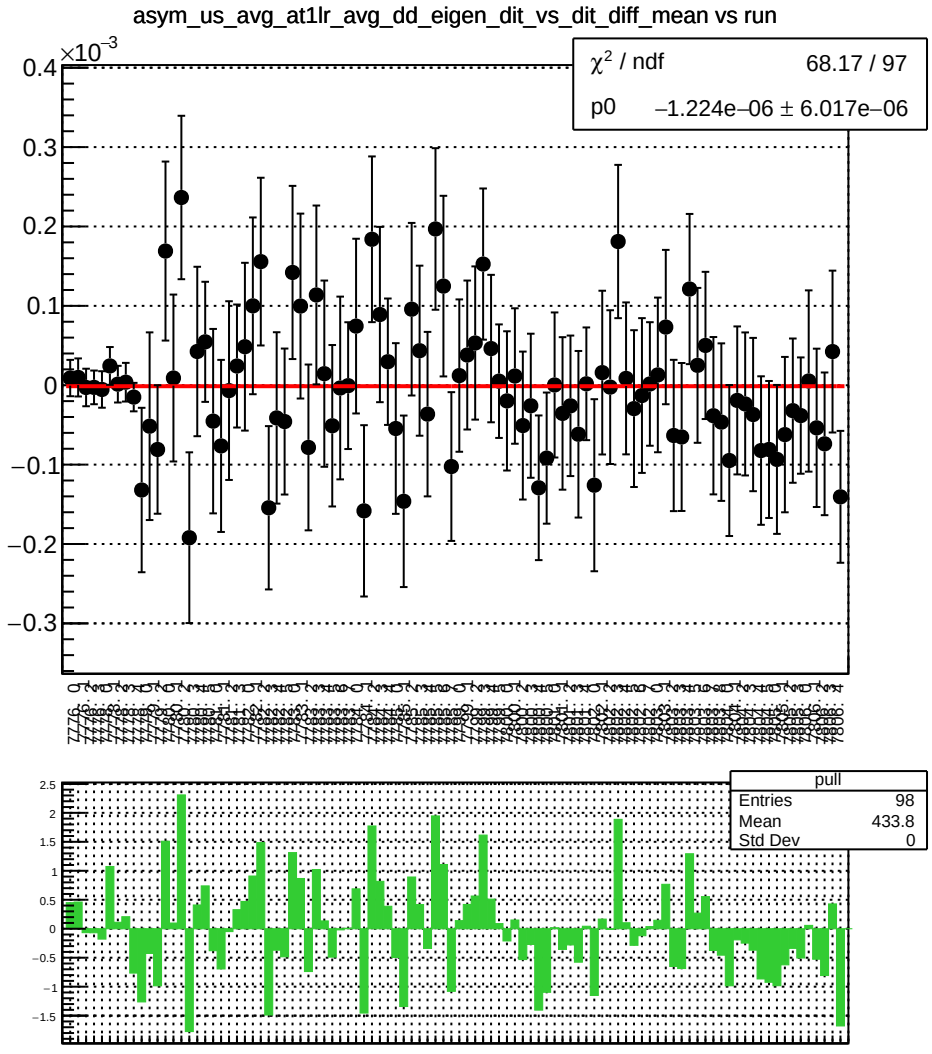

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.181e+06 / 97
p0 5.265e−11 ± 6.033e−14
0.5
0.4
0.3
0.2
0.1
0

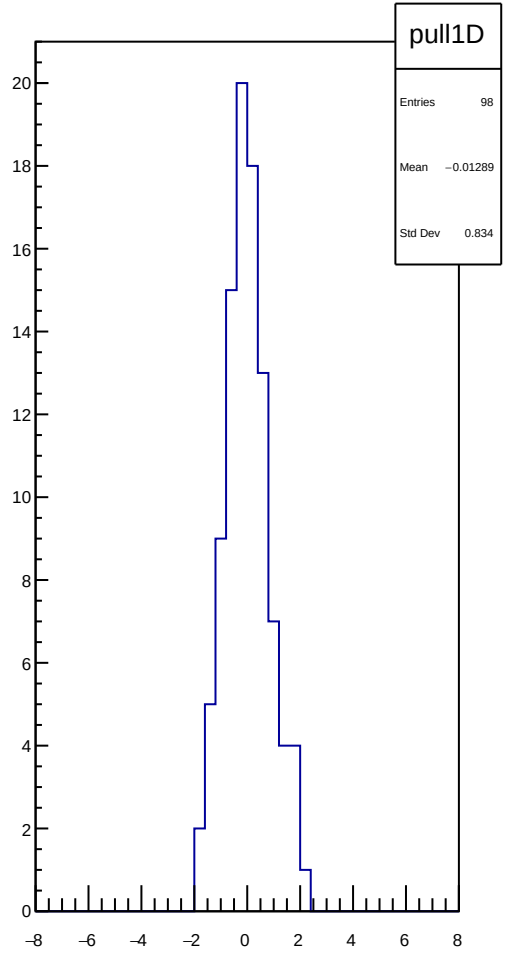

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.34 / 97
p0 −0.03856 ± 0.05617
pull
Entries 98
Mean −57.35
Std Dev 0
pull1D
Entries 98
Mean −0.02073
Std Dev 0.9599

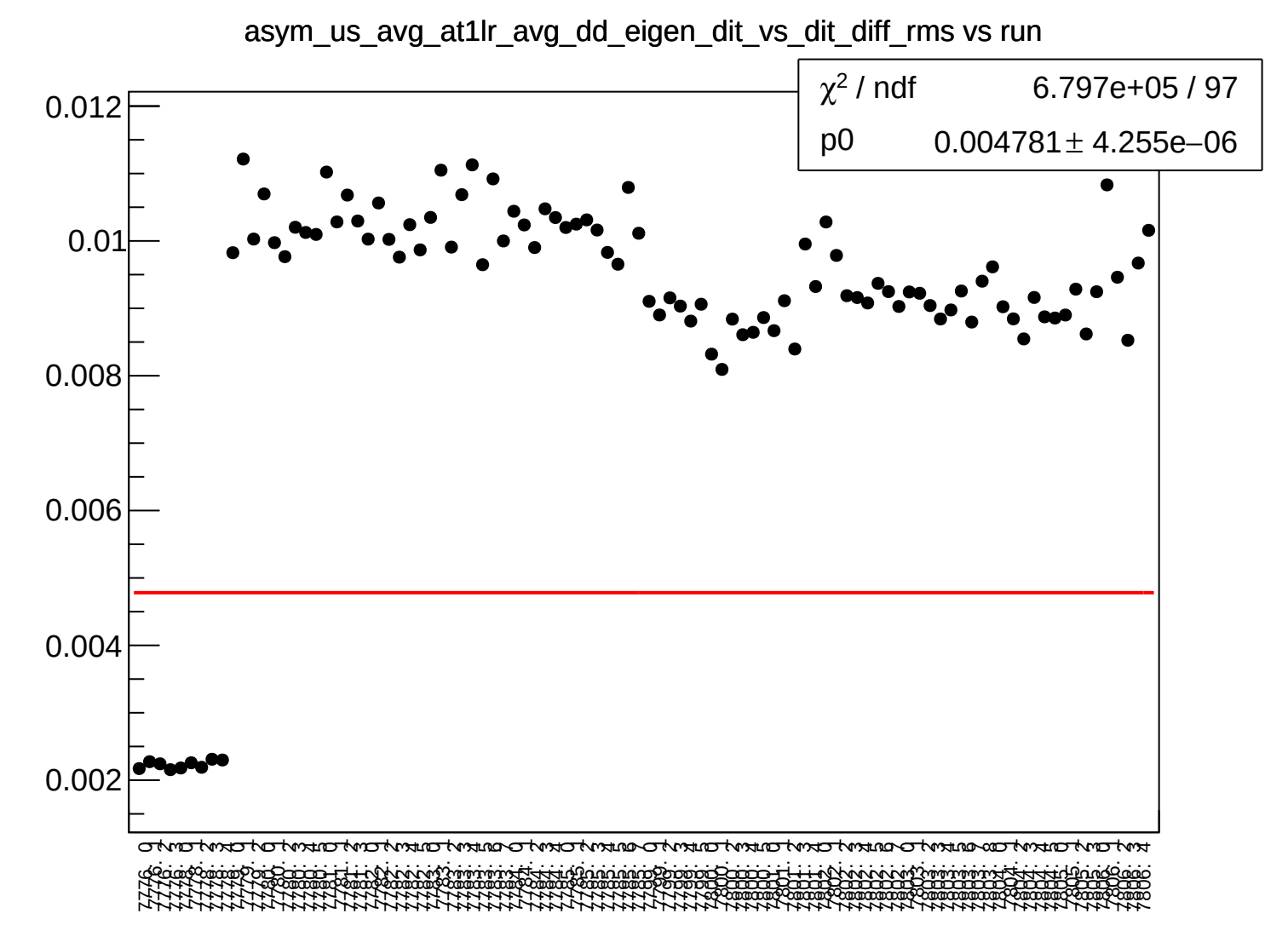

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.555e+05 / 97
p0 50.04 ± 0.03972
180
160
140
120
100
80
60
40
20

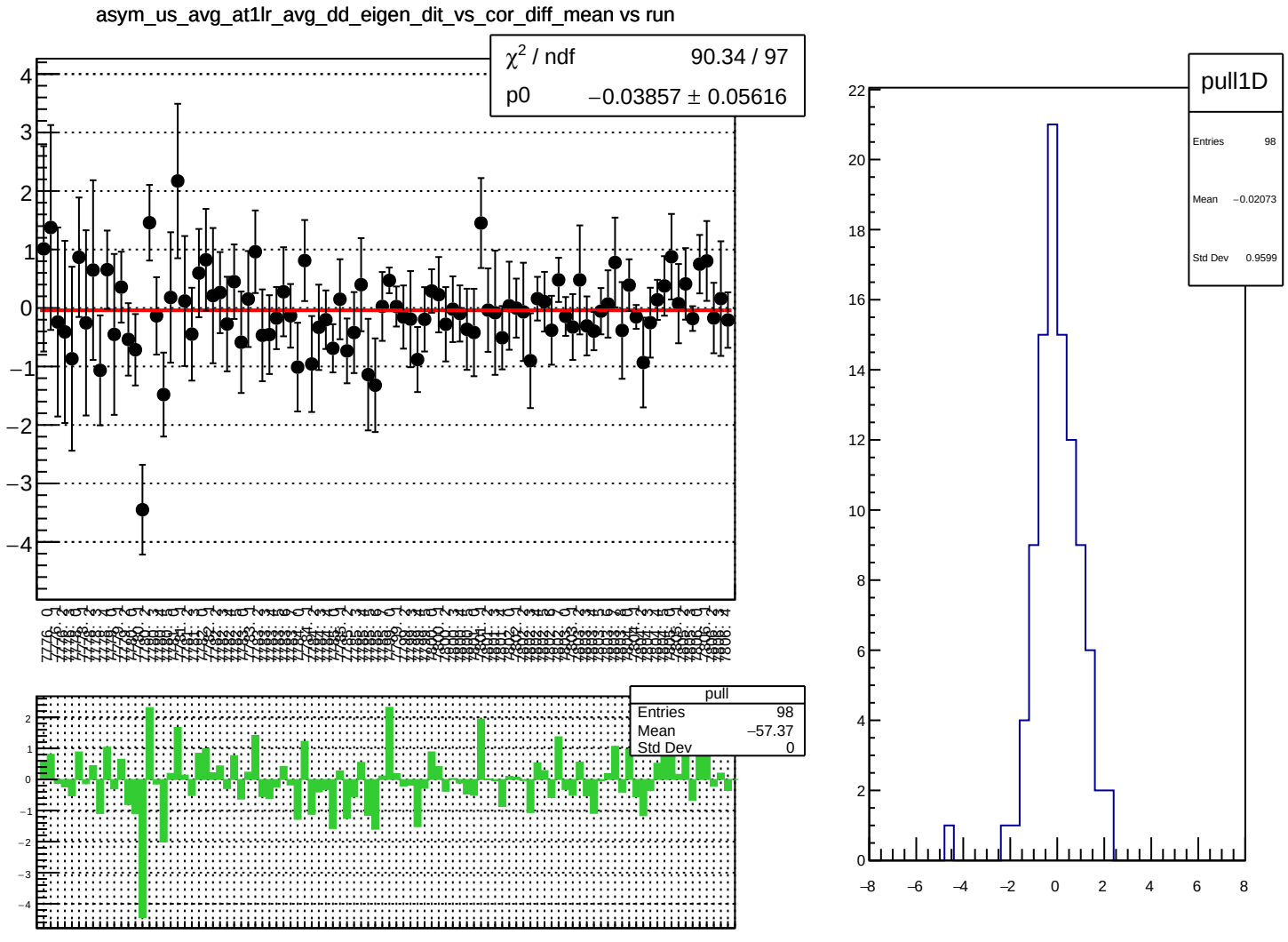

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.34 / 97
p0 −0.03856 ± 0.05617
pull
Entries 98
Mean −57.35
Std Dev 0
pull1D
Entries 98
Mean −0.02073
Std Dev 0.9599

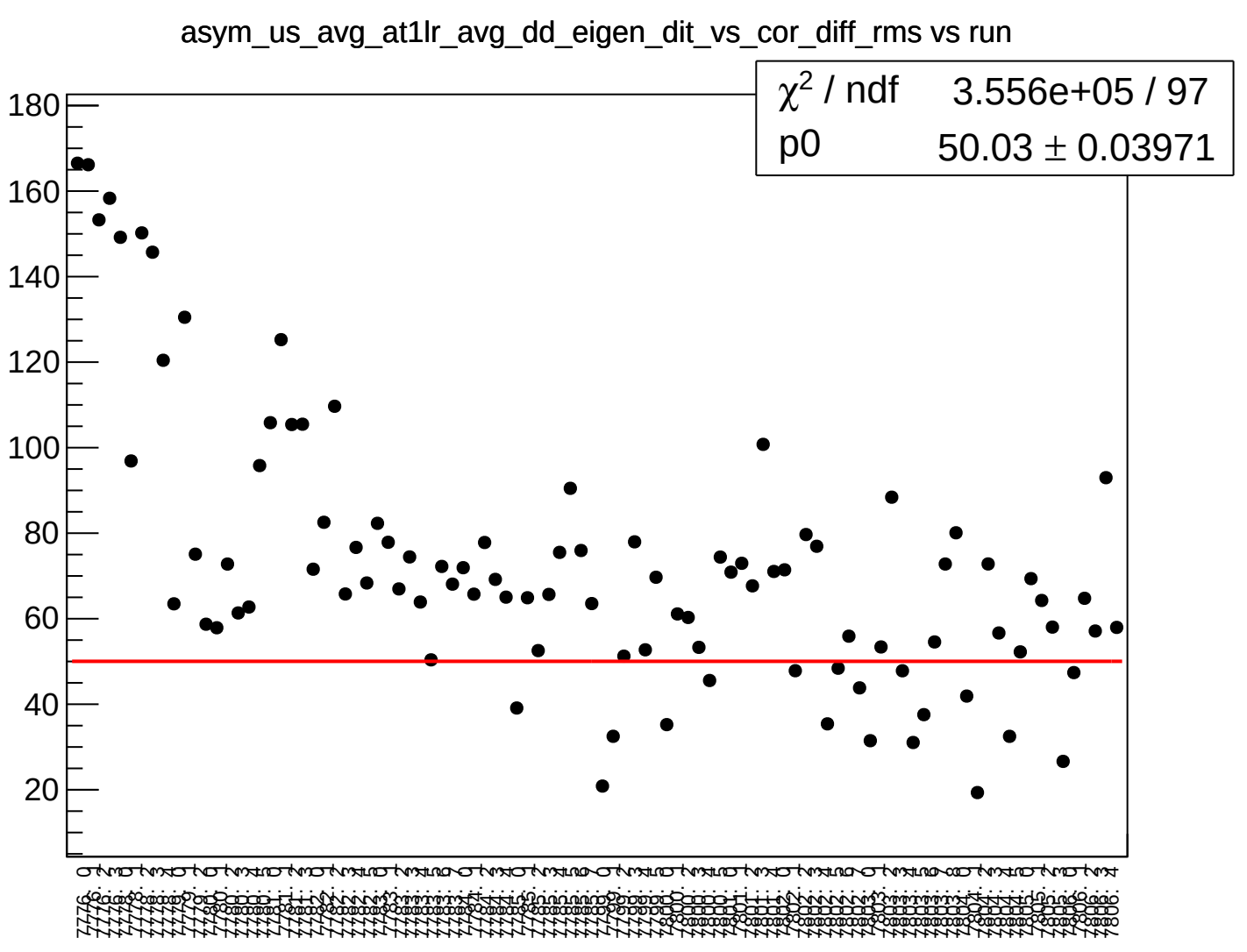

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.555e+05 / 97
p0 50.04 ± 0.03972
180
160
140
120
100
80
60
40
20

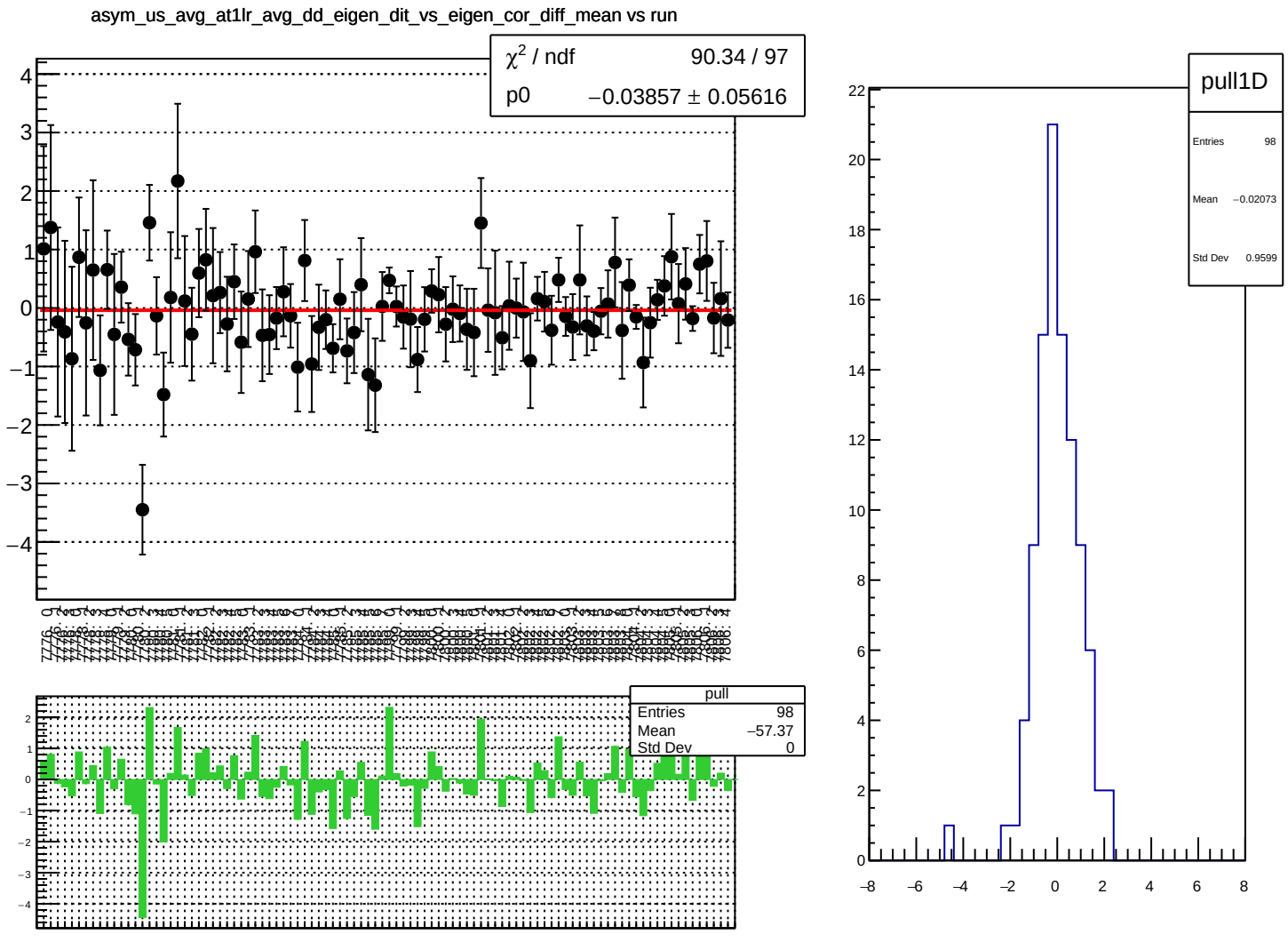

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.17 / 97
p0 −1.224e−06 ± 6.017e−06
pull
Entries 98
Mean 433.8
Std Dev 0

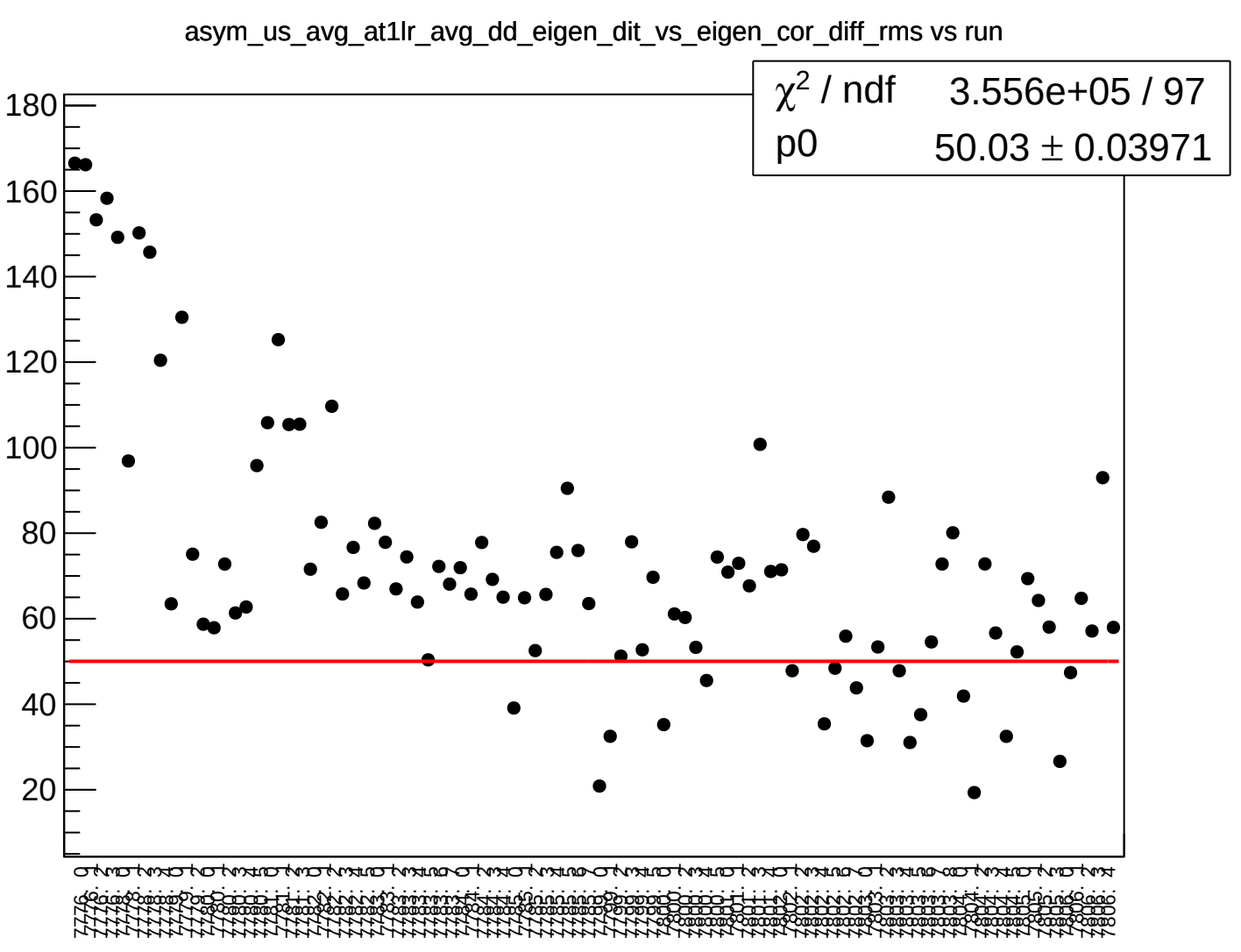

pull1D
Entries 98
Mean −0.01289
Std Dev 0.834

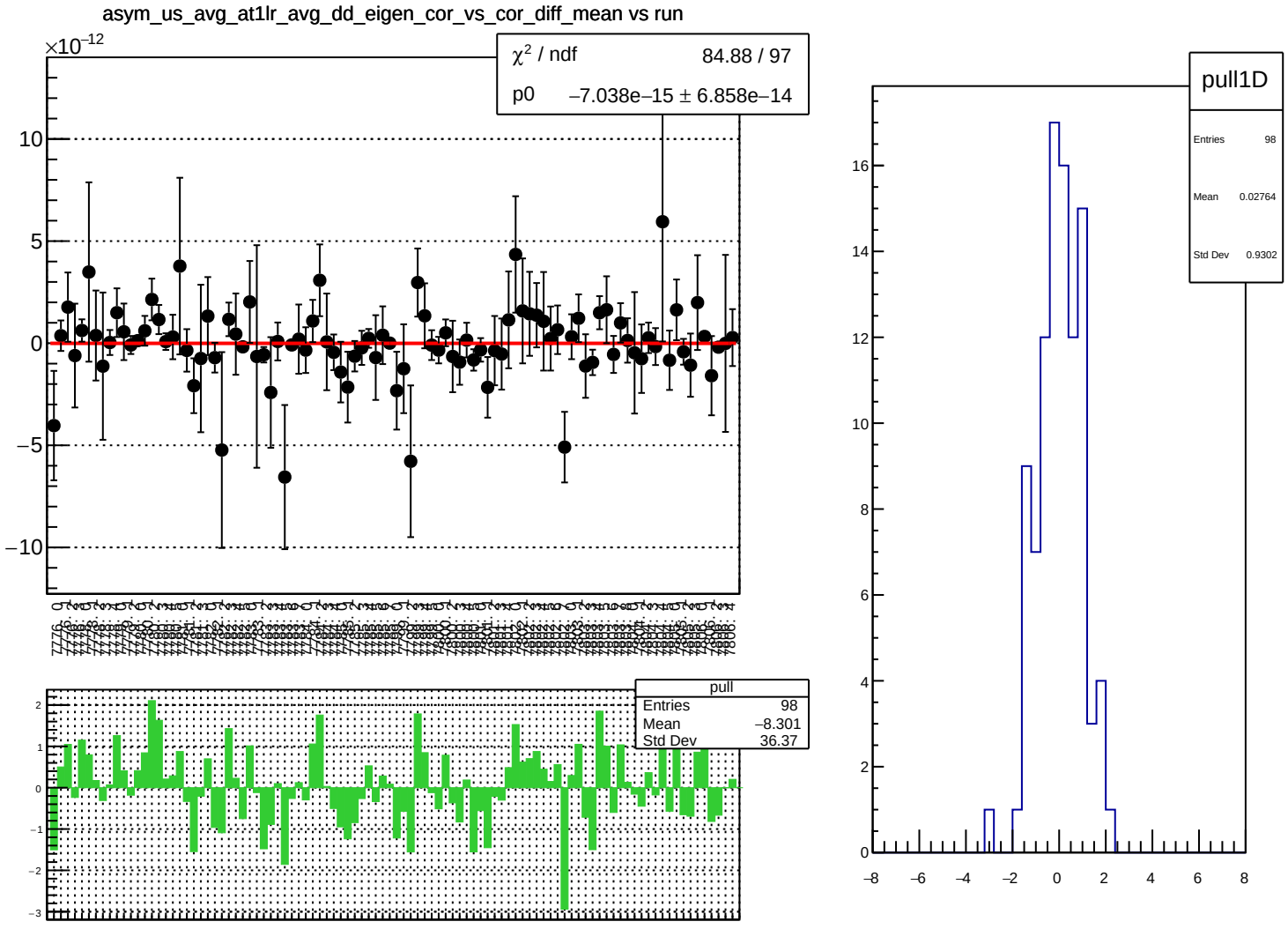

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.797e+05 / 97
p0 0.004781 ± 4.255e−06
0.012
0.01
0.008
0.006
0.004
0.002

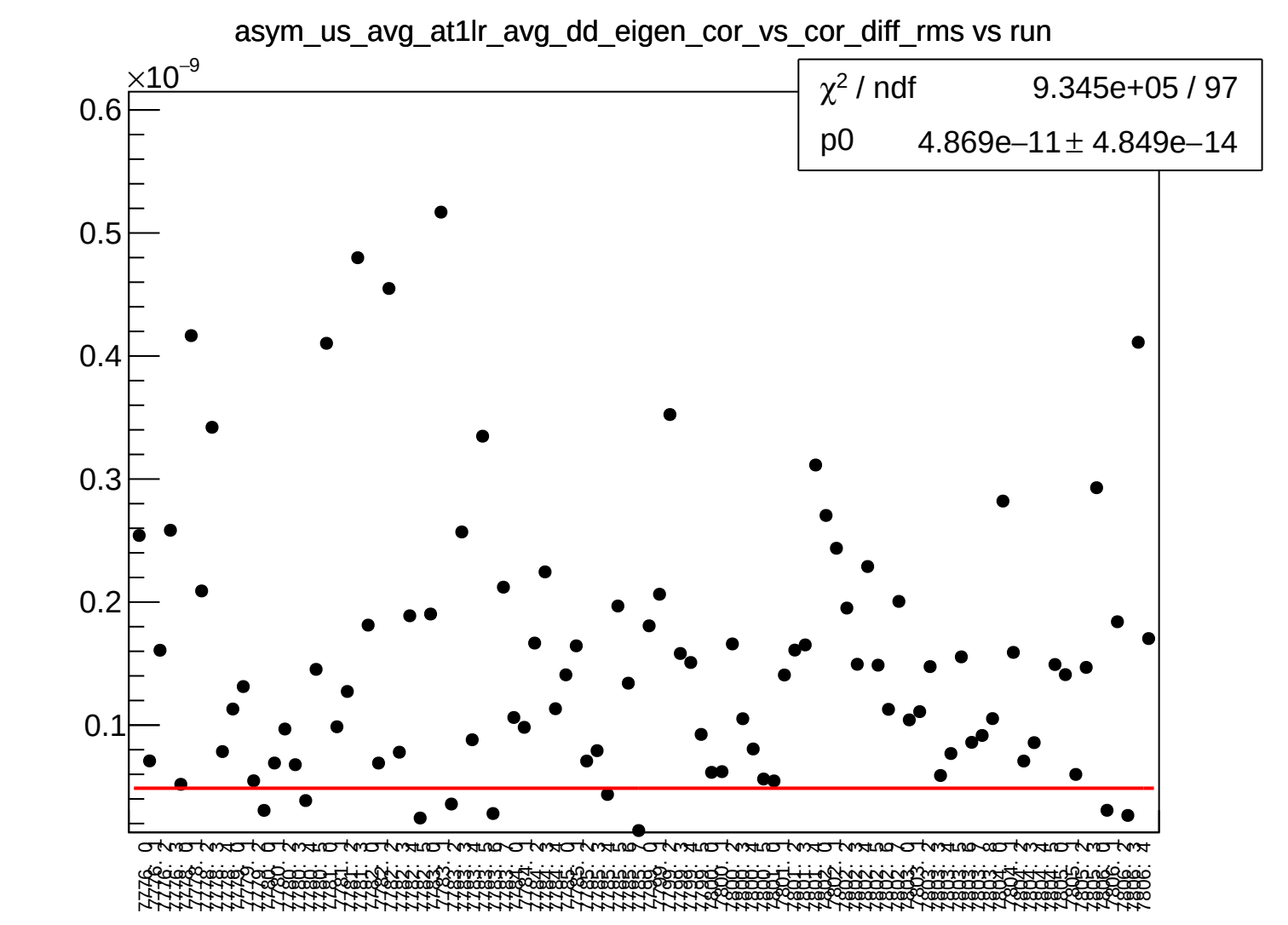

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.34 / 97
p0 −0.03857 ± 0.05616
pull
Entries 98
Mean −57.37
Std Dev 0
pull1D
Entries 98
Mean −0.02073
Std Dev 0.9599

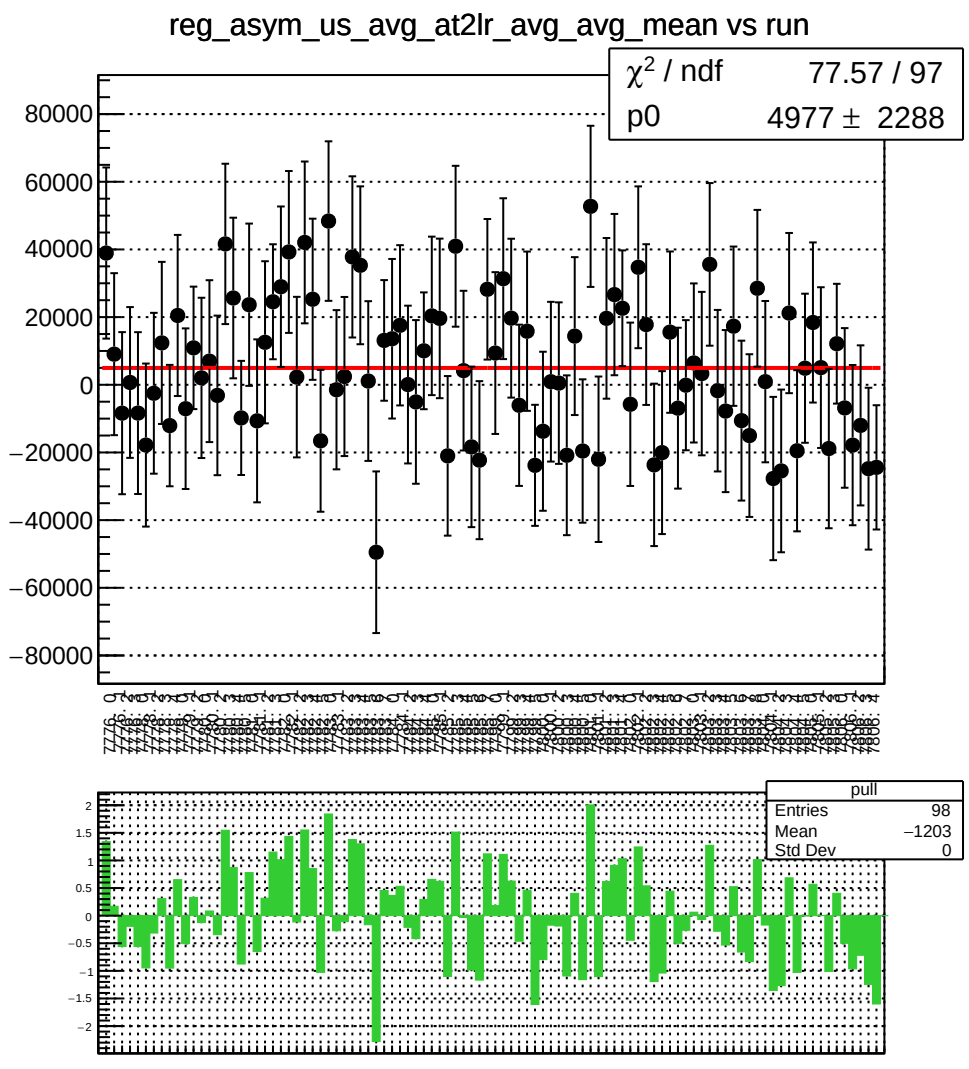

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.556e+05 / 97
p0 50.03 ± 0.03971
180
160
140
120
100
80
60
40
20

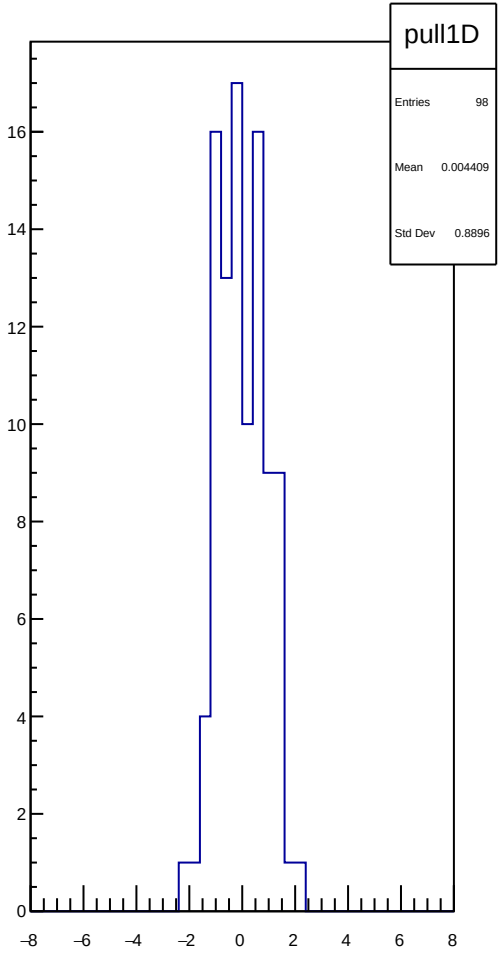

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.34 / 97
p0 −0.03857 ± 0.05616
pull
Entries 98
Mean −57.37
Std Dev 0
pull1D
Entries 98
Mean −0.02073
Std Dev 0.9599

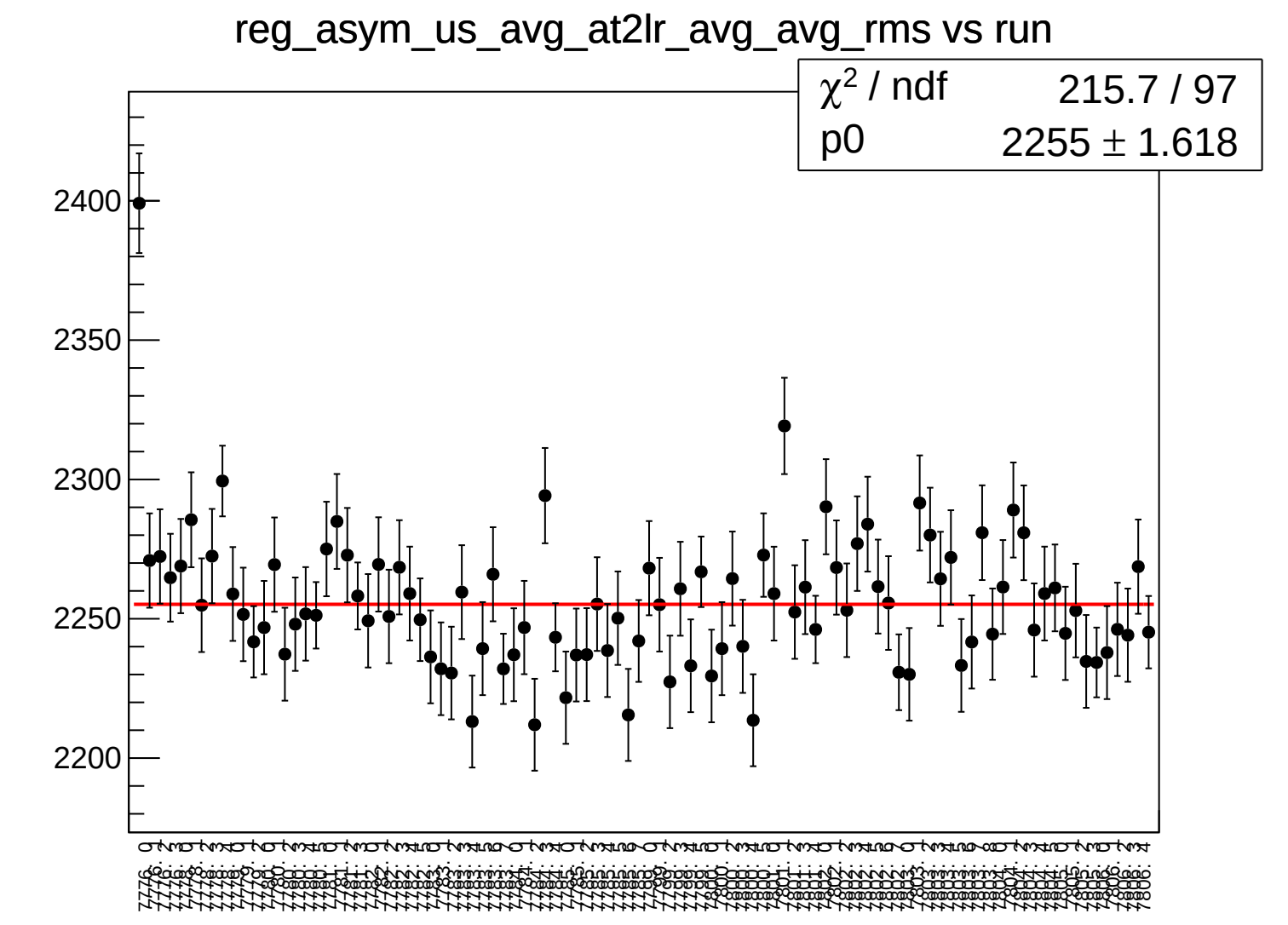

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.556e+05 / 97
p0 50.03 ± 0.03971
180
160
140
120
100
80
60
40
20

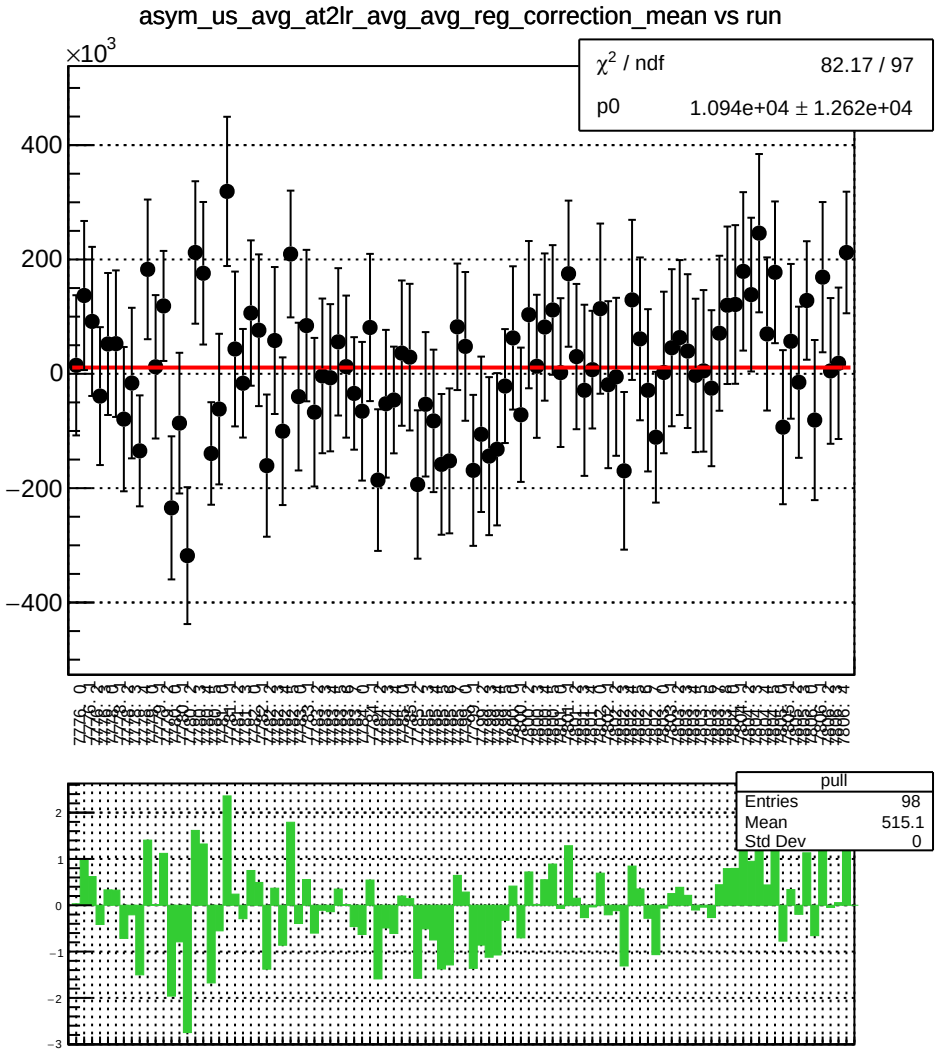

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.88 / 97
p0 −7.038e−15 ± 6.858e−14
10
5
0
−5
−10
pull
Entries 98
Mean −8.301
Std Dev 36.37
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.02764
Std Dev 0.9302
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

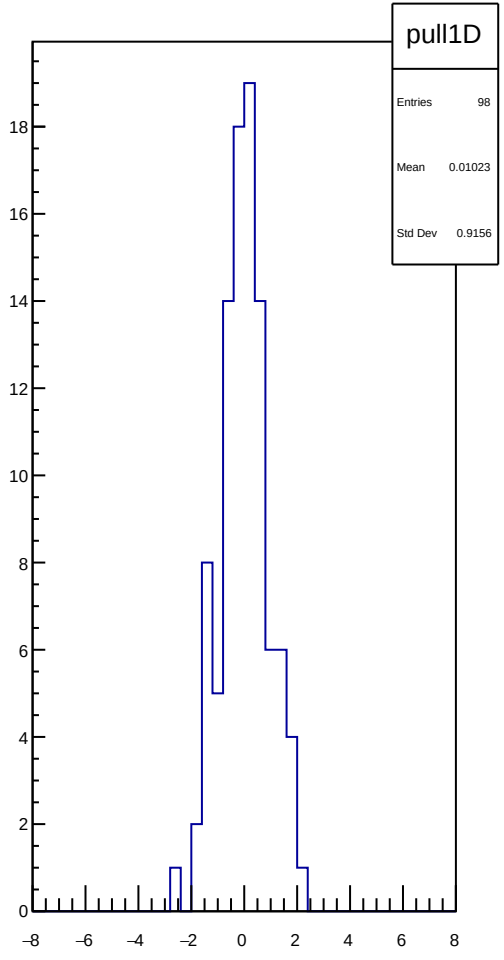

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.345e+05 / 97
p0 4.869e−11 ± 4.849e−14
0.6
0.5
0.4
0.3
0.2
0.1

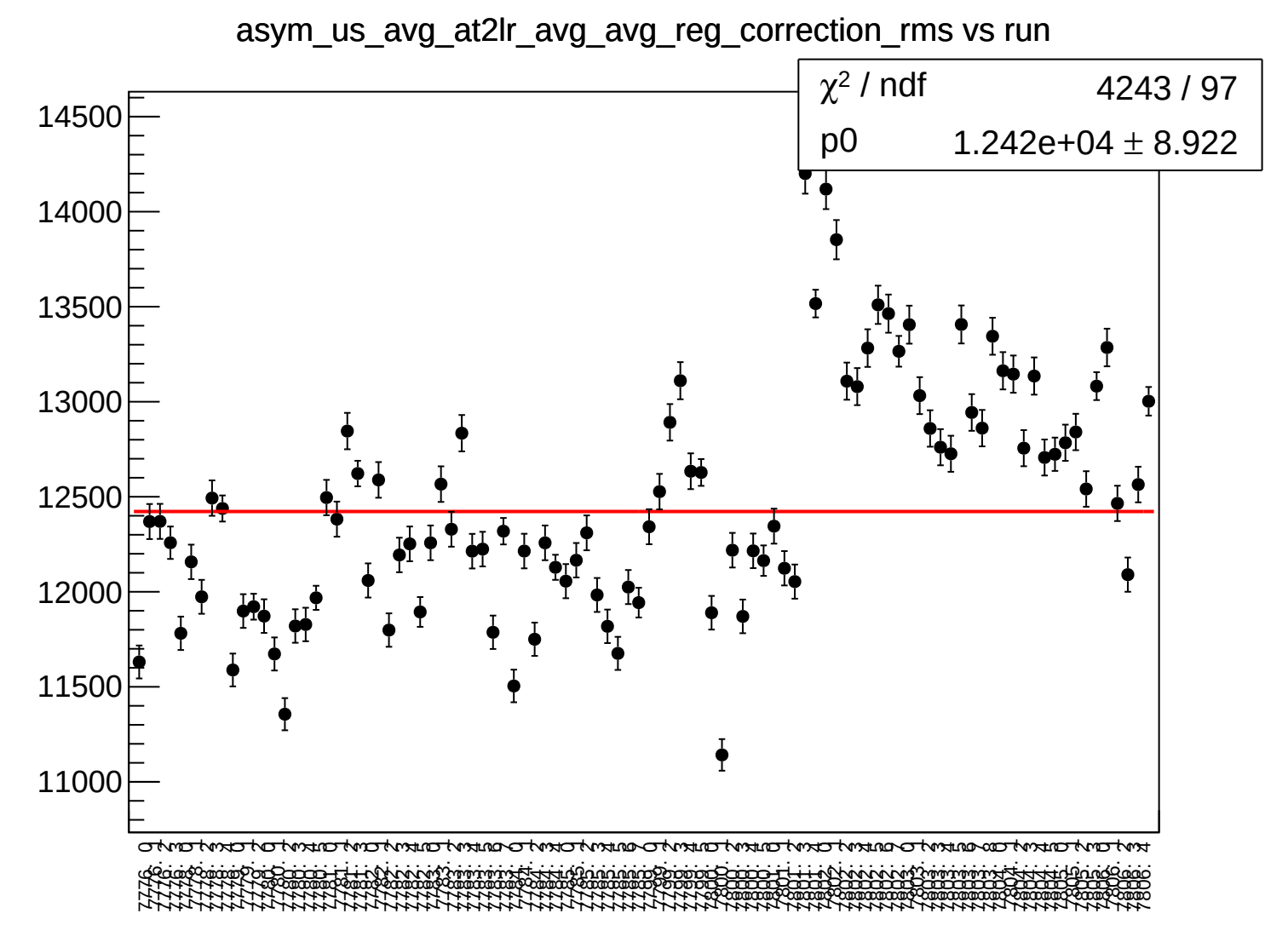

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 77.57 / 97
p0 4977 ± 2288
pull
Entries 98
Mean −1203
Std Dev 0

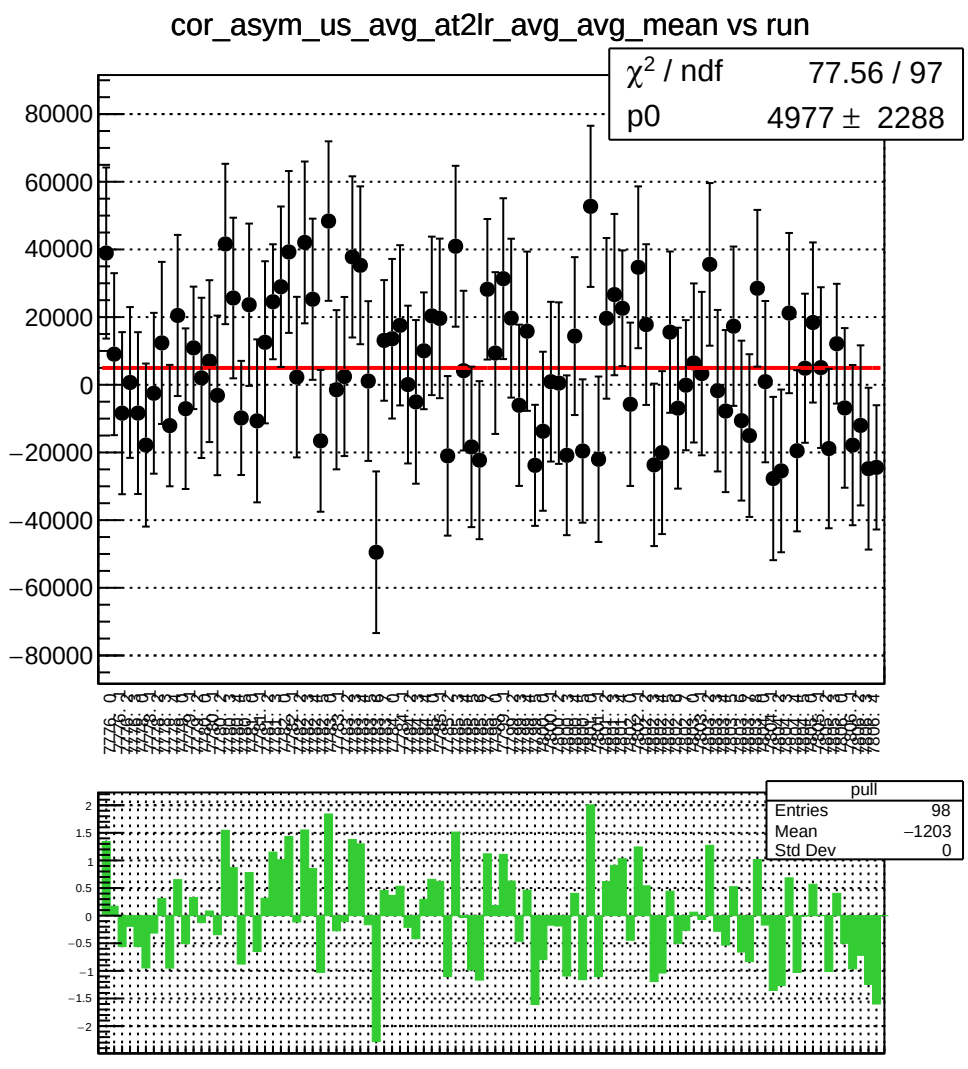

pull1D
Entries 98
Mean 0.004409
Std Dev 0.8896

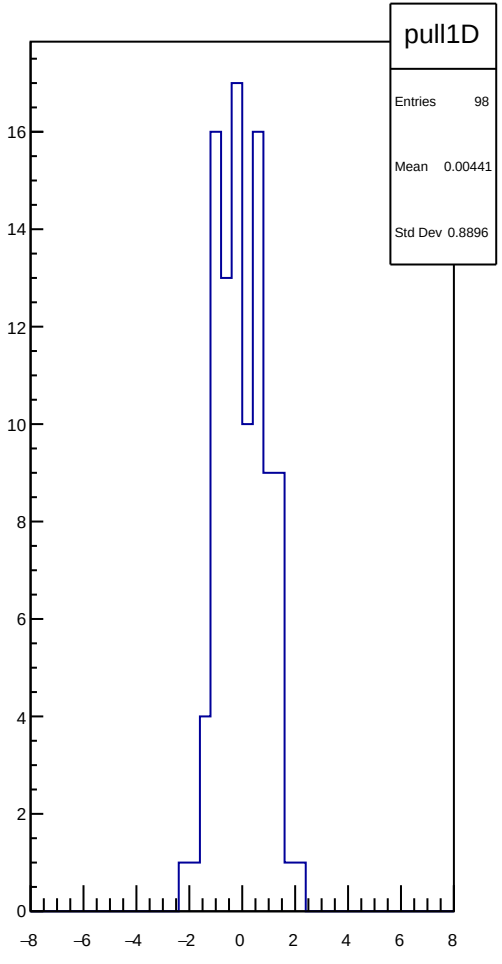

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 215.7 / 97
p0 2255 ± 1.618
2400
2350
2300
2250
2200

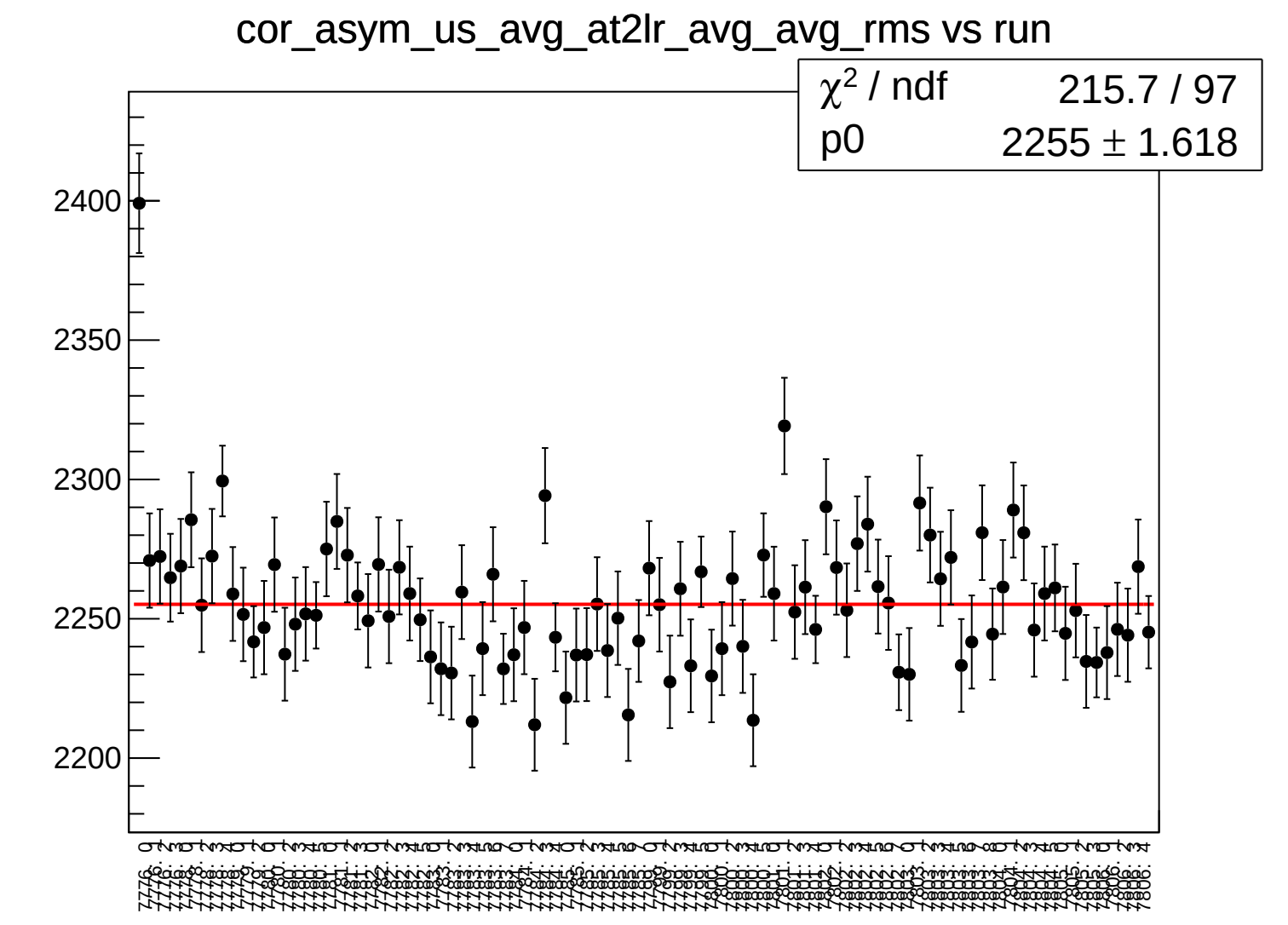

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.17 / 97
p0 1.094e+04 ± 1.262e+04
400
200
0
−200
−400
pull
Entries 98
Mean 515.1
Std Dev 0
2
1
0
−1
−2
−3

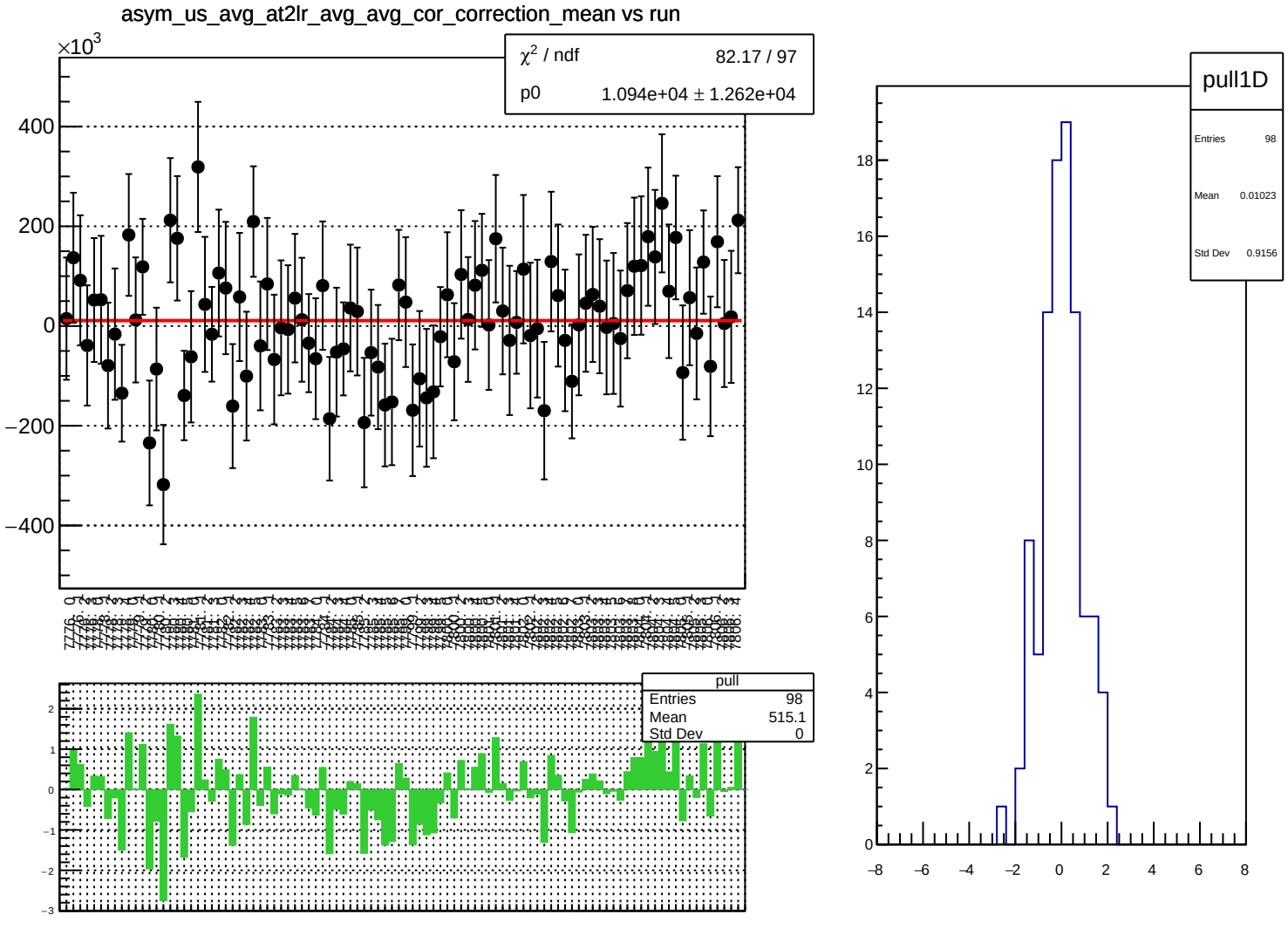

pull1D
Entries 98
Mean 0.01023
Std Dev 0.9156
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

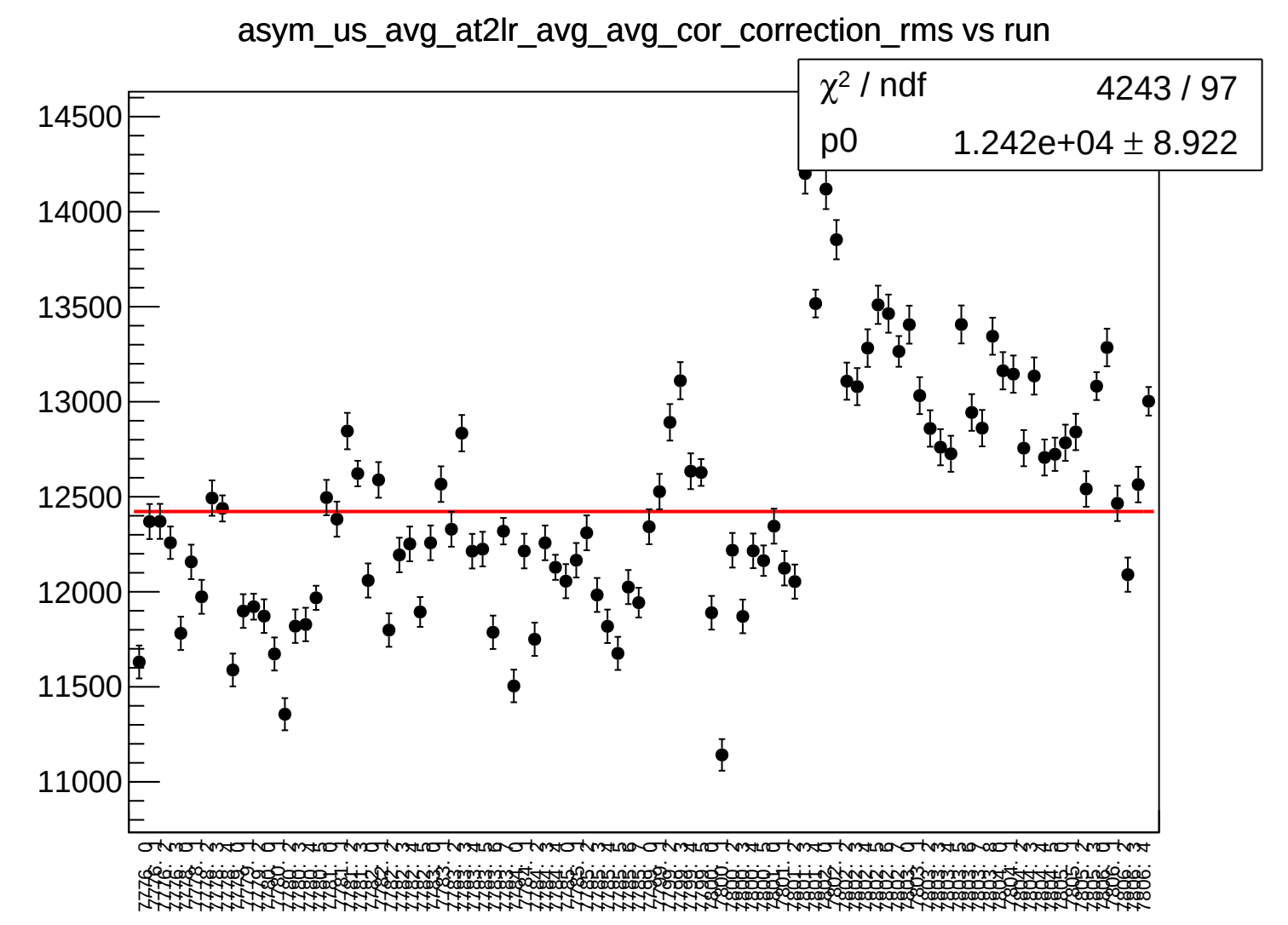

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4243 / 97
p0 1.242e+04 ± 8.922
14500
14000
13500
13000
12500
12000
11500
11000

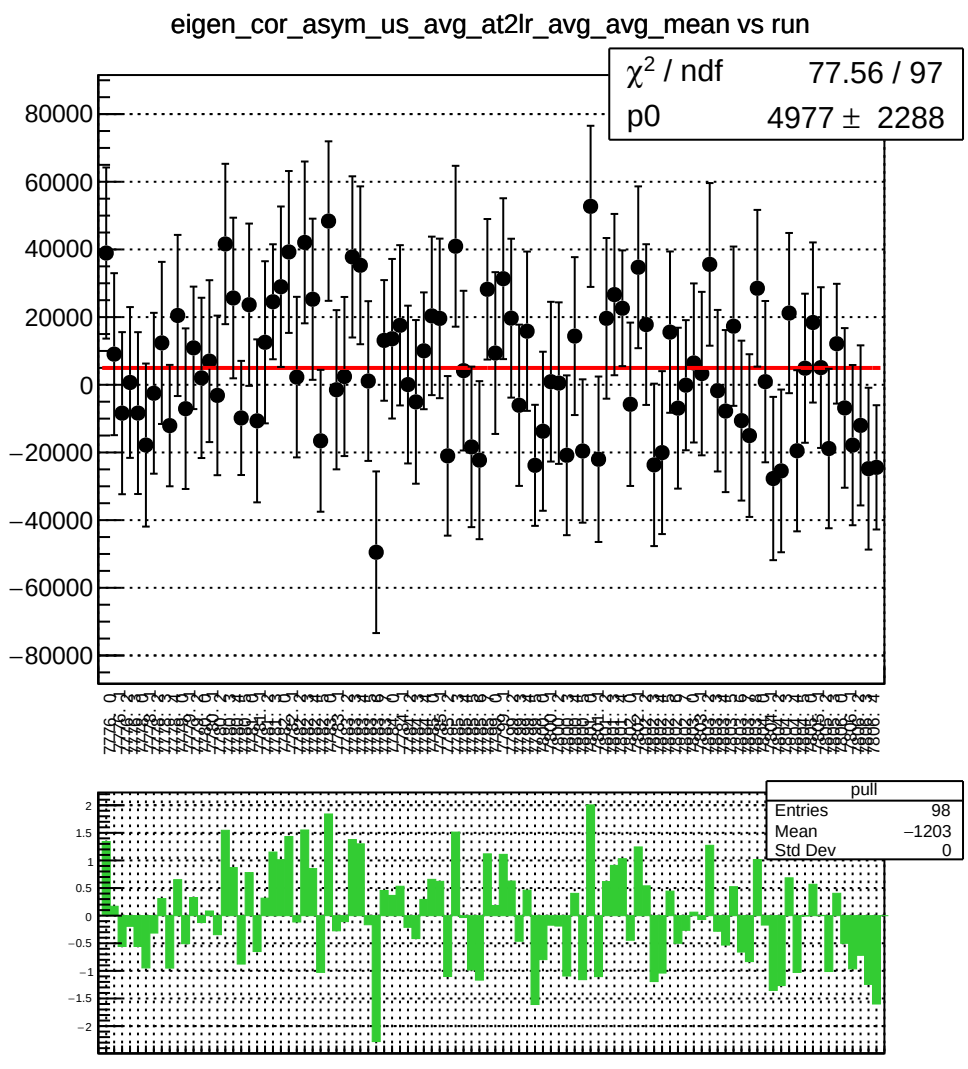

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 77.56 / 97
p0 4977 ± 2288
pull
Entries 98
Mean −1203
Std Dev 0

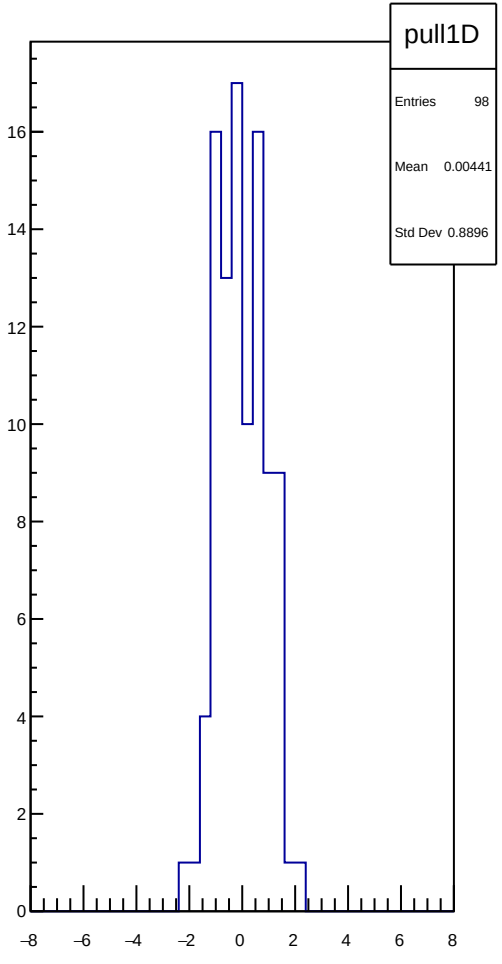

pull1D
Entries 98
Mean 0.00441
Std Dev 0.8896

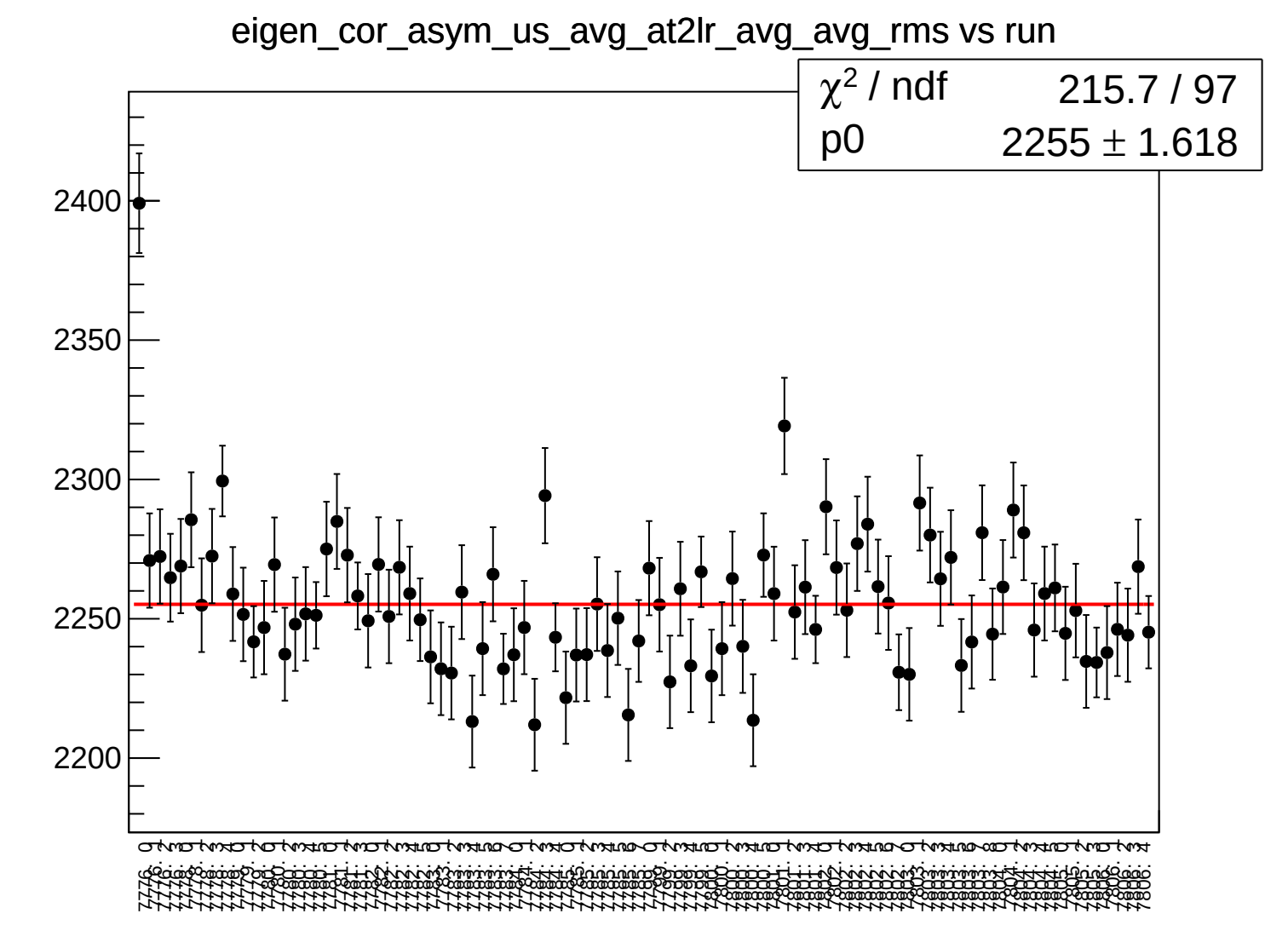

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 215.7 / 97
p0 2255 ± 1.618
2400
2350
2300
2250
2200

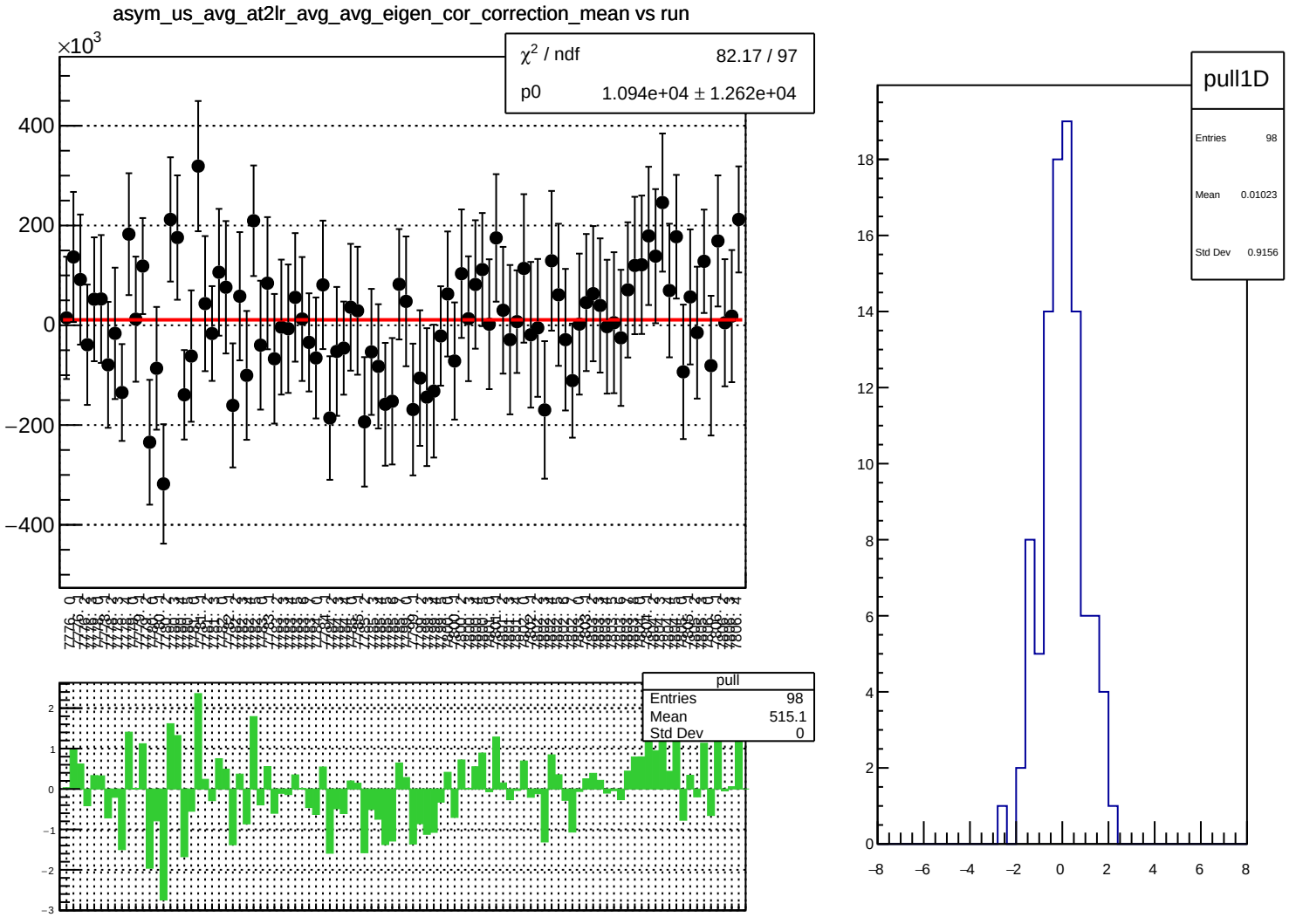

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.17 / 97
p0 1.094e+04 ± 1.262e+04
400
200
0
−200
−400
pull
Entries 98
Mean 515.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.01023
Std Dev 0.9156
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

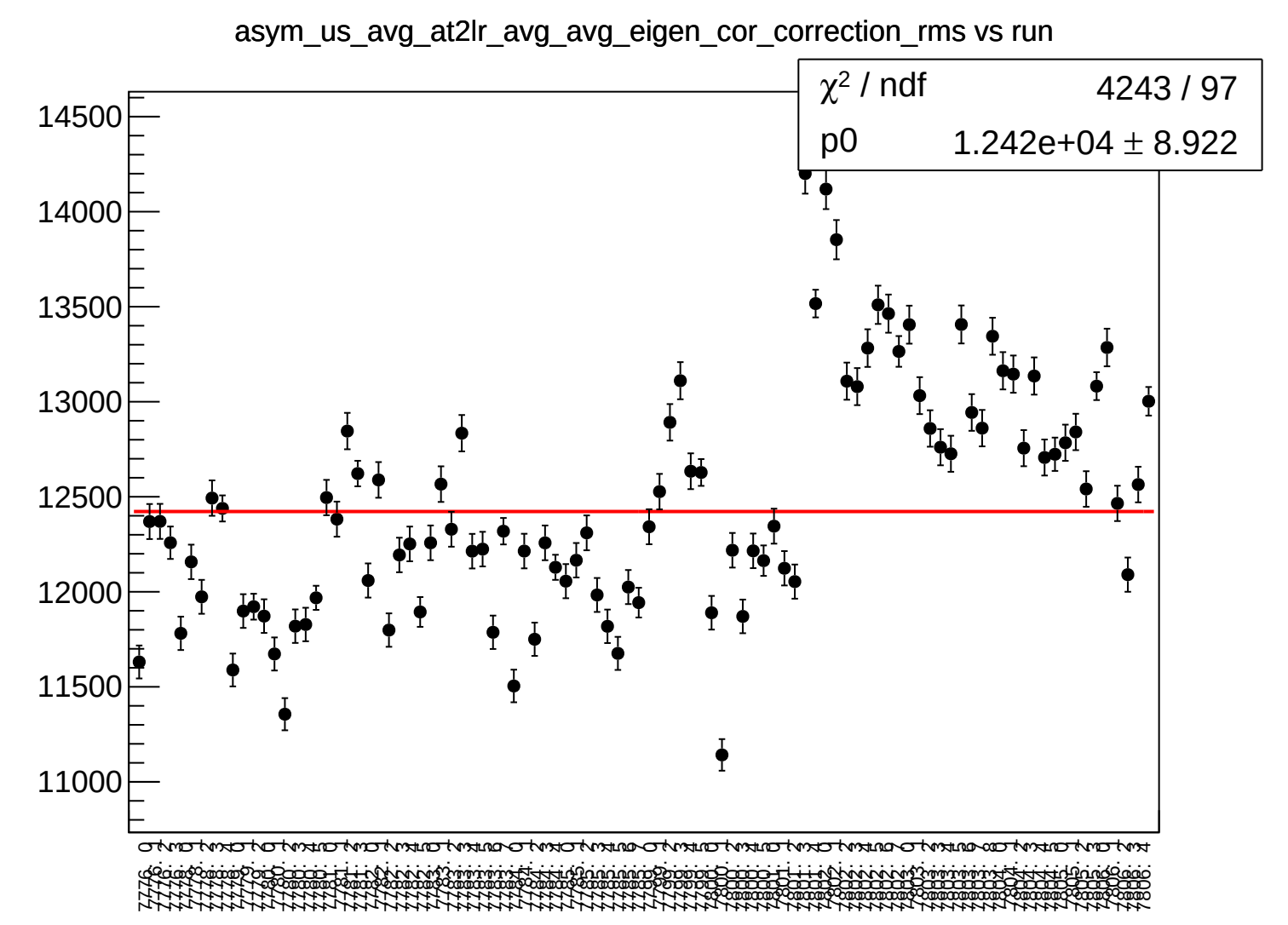

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4243 / 97
p0 1.242e+04 ± 8.922
14500
14000
13500
13000
12500
12000
11500
11000

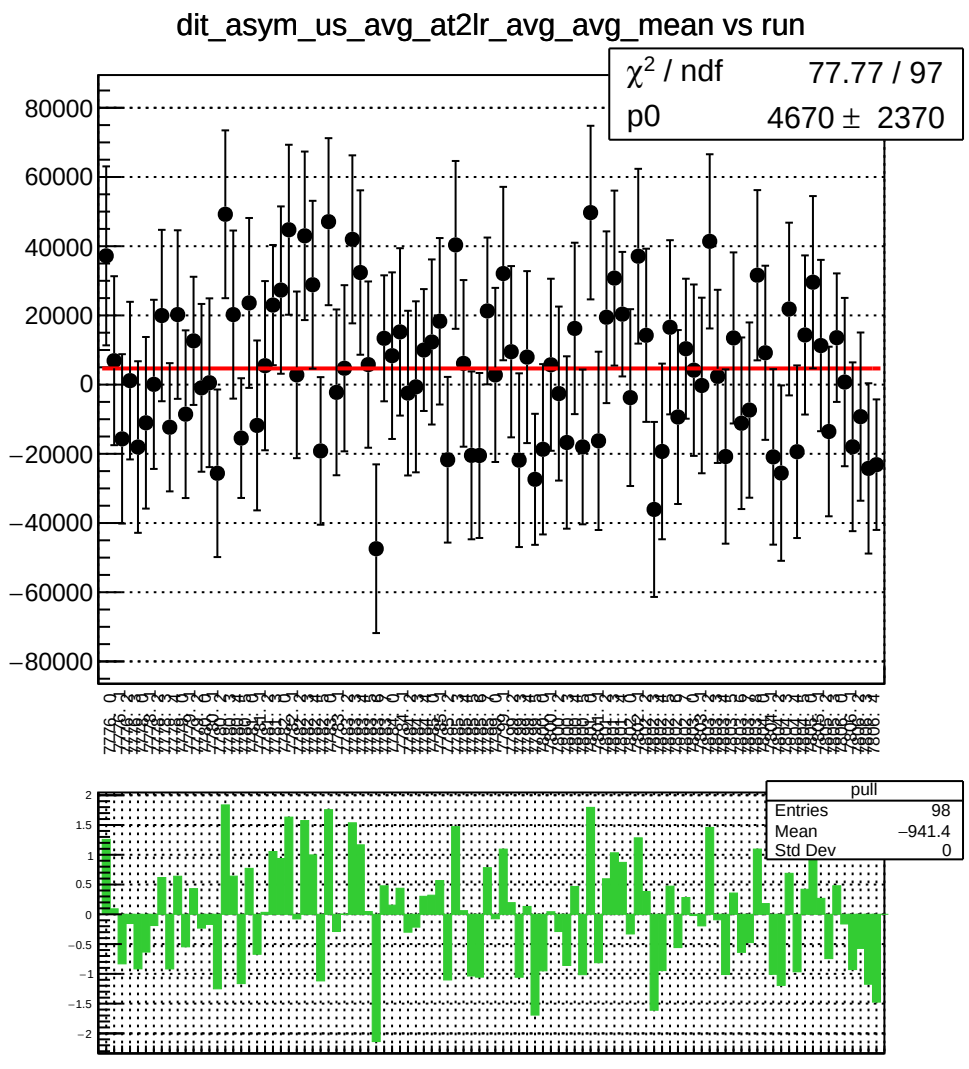

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 77.56 / 97
p0 4977 ± 2288
pull
Entries 98
Mean −1203
Std Dev 0

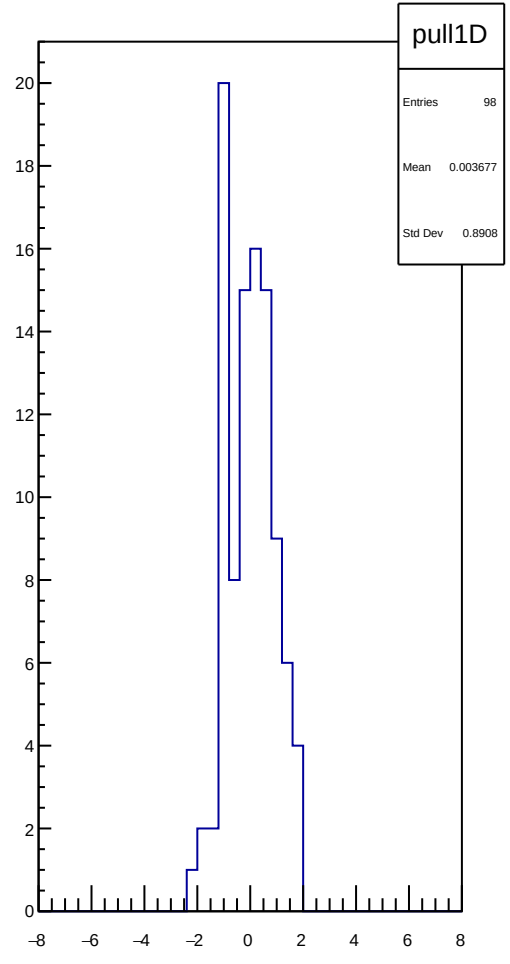

pull1D
Entries 98
Mean 0.00441
Std Dev 0.8896

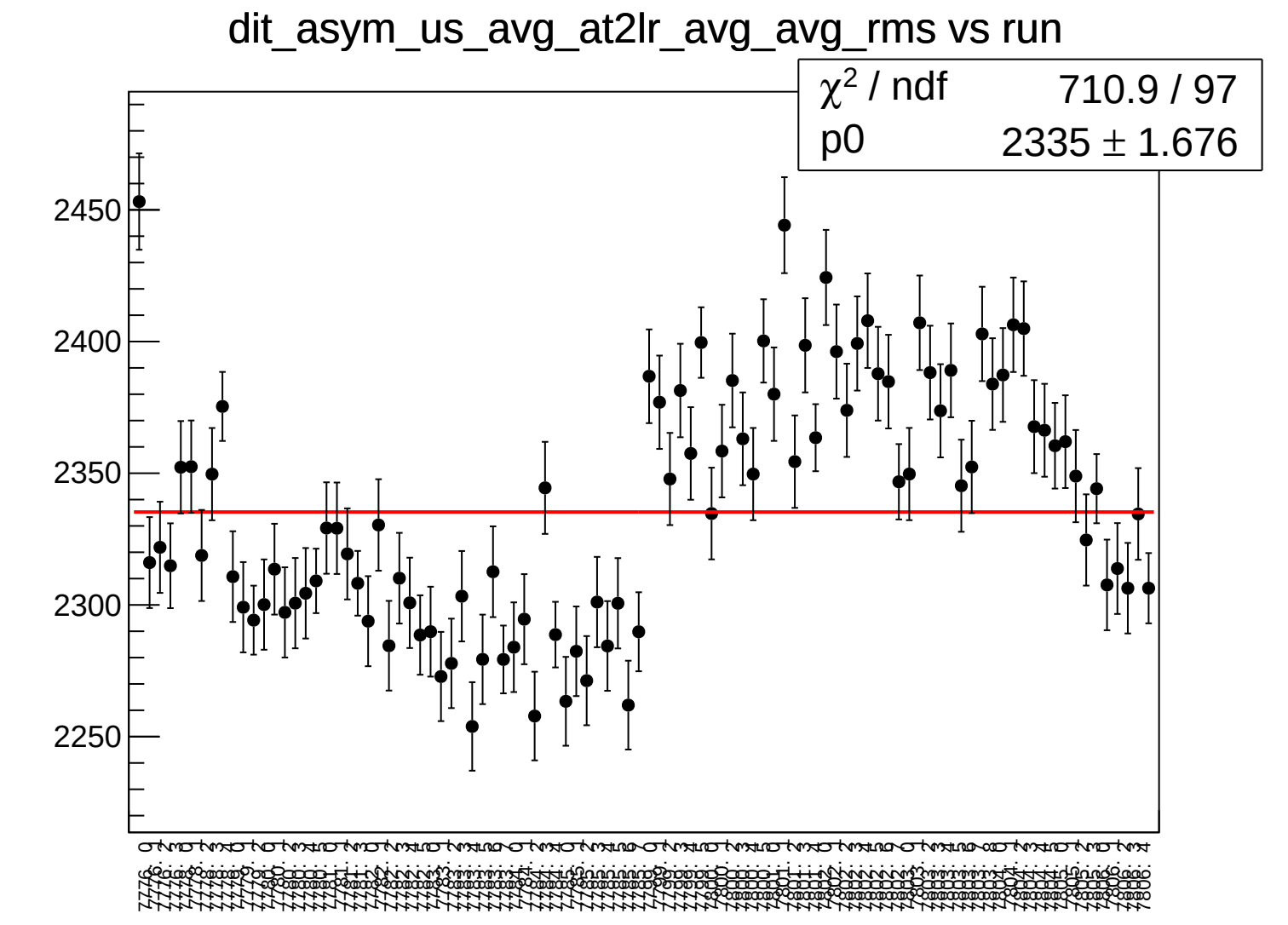

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 215.7 / 97
p0 2255 ± 1.618
2400
2350
2300
2250
2200

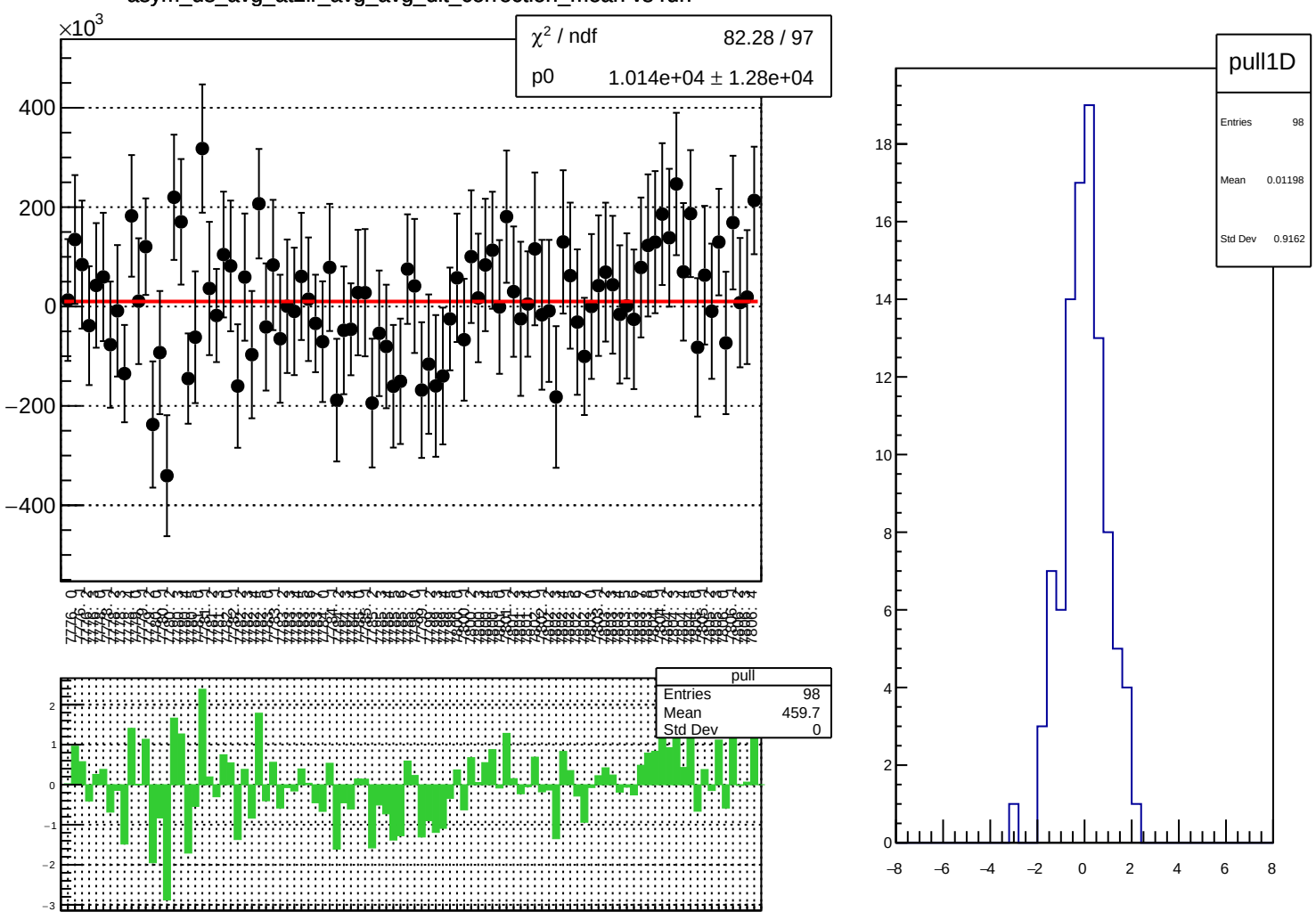

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.17 / 97
p0 1.094e+04 ± 1.262e+04
400
200
0
−200
−400
pull
Entries 98
Mean 515.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.01023
Std Dev 0.9156
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

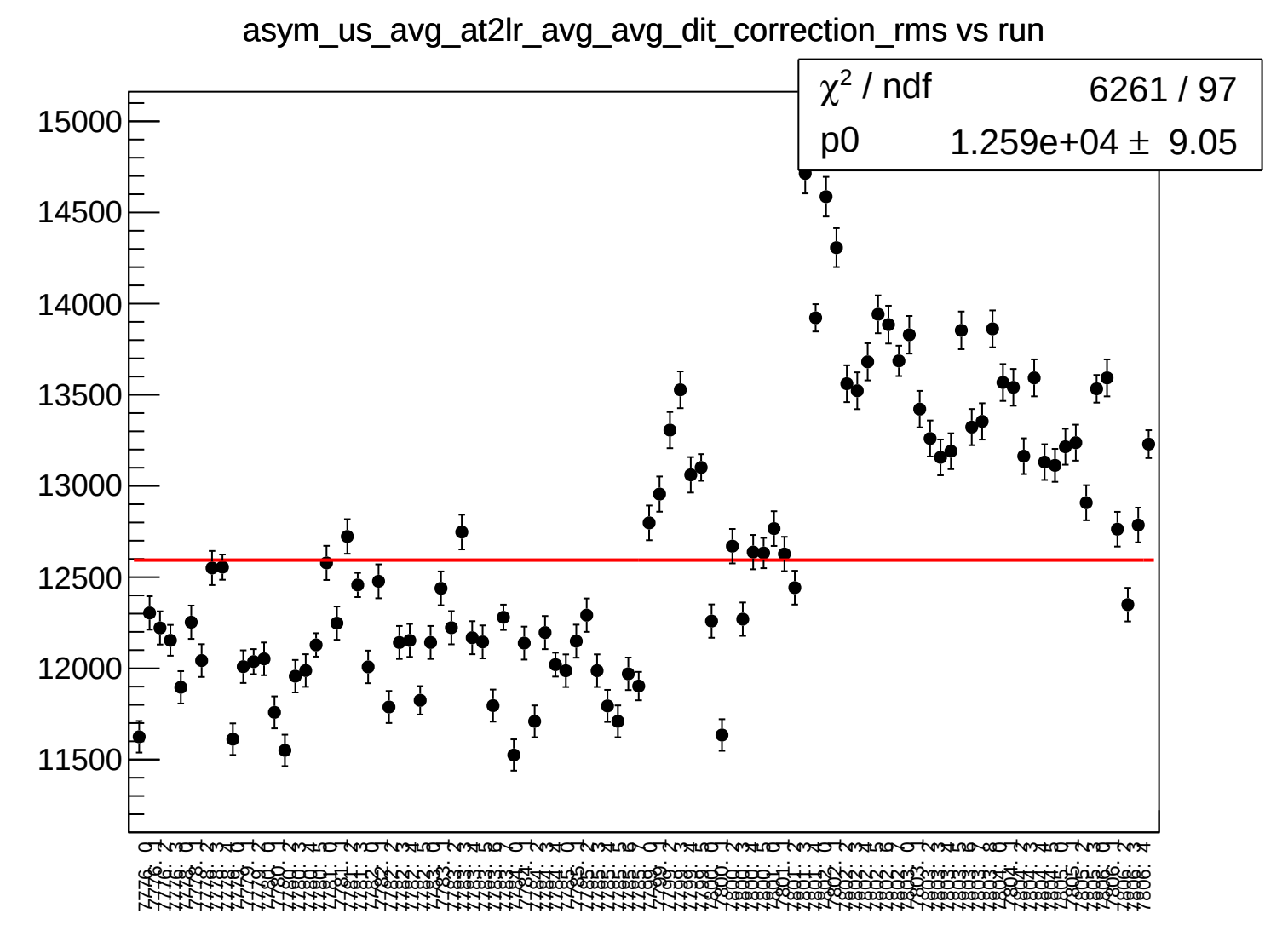

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4243 / 97
p0 1.242e+04 ± 8.922
14500
14000
13500
13000
12500
12000
11500
11000

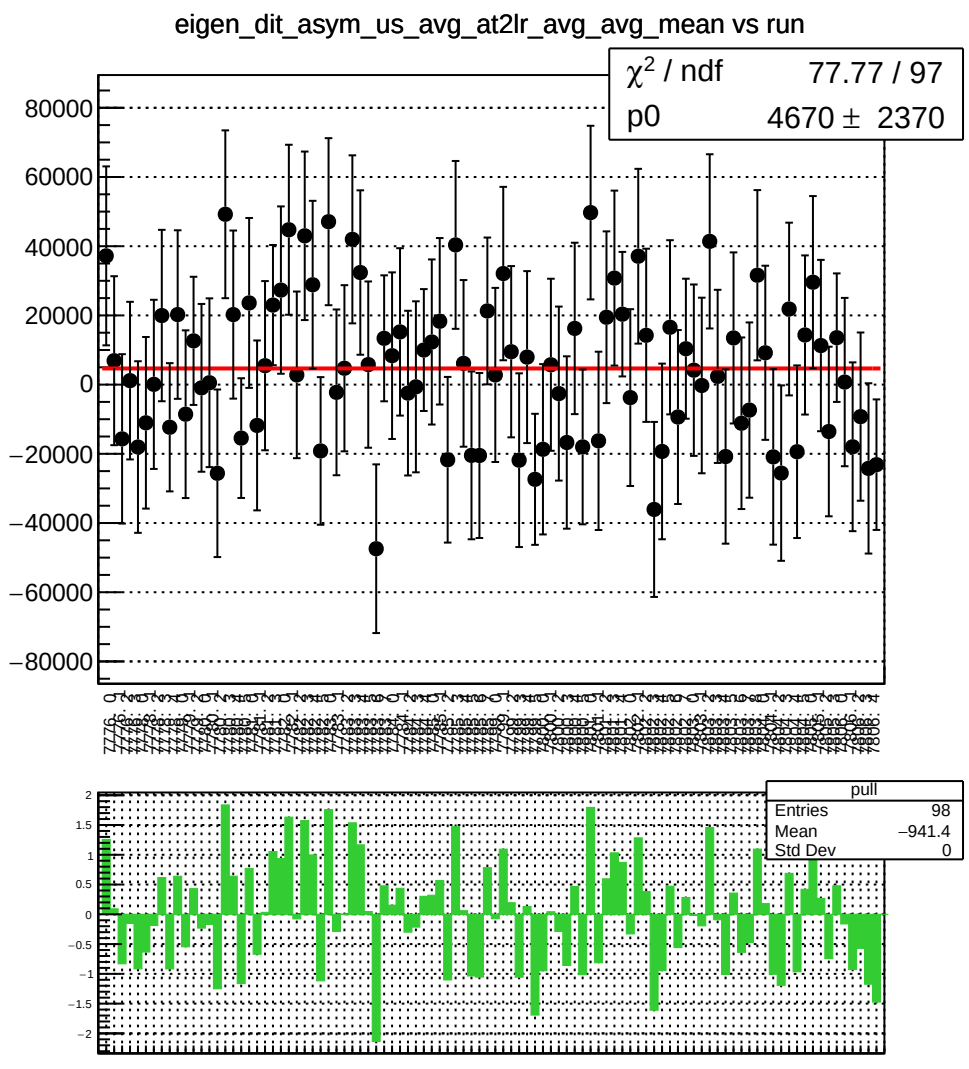

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 77.77 / 97
p0 4670 ± 2370
pull
Entries 98
Mean −941.4
Std Dev 0

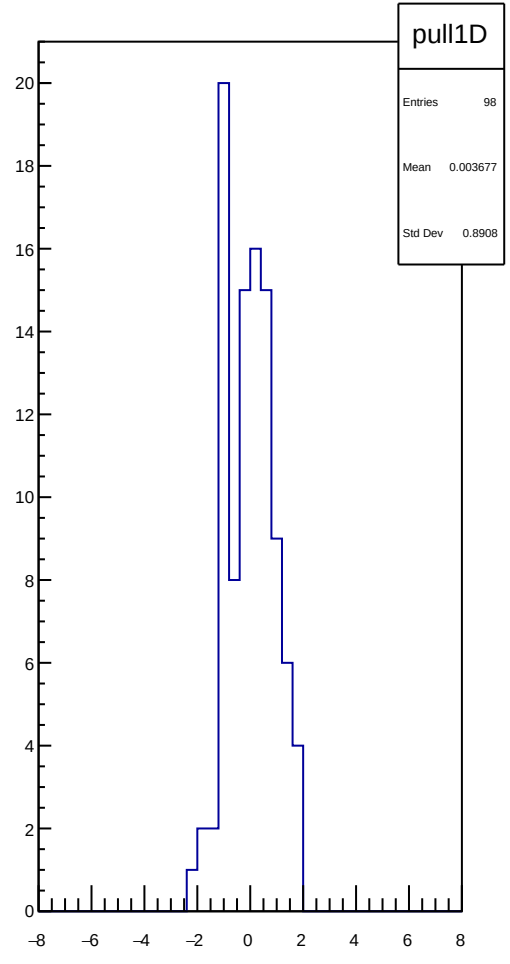

pull1D
Entries 98
Mean 0.003677
Std Dev 0.8908

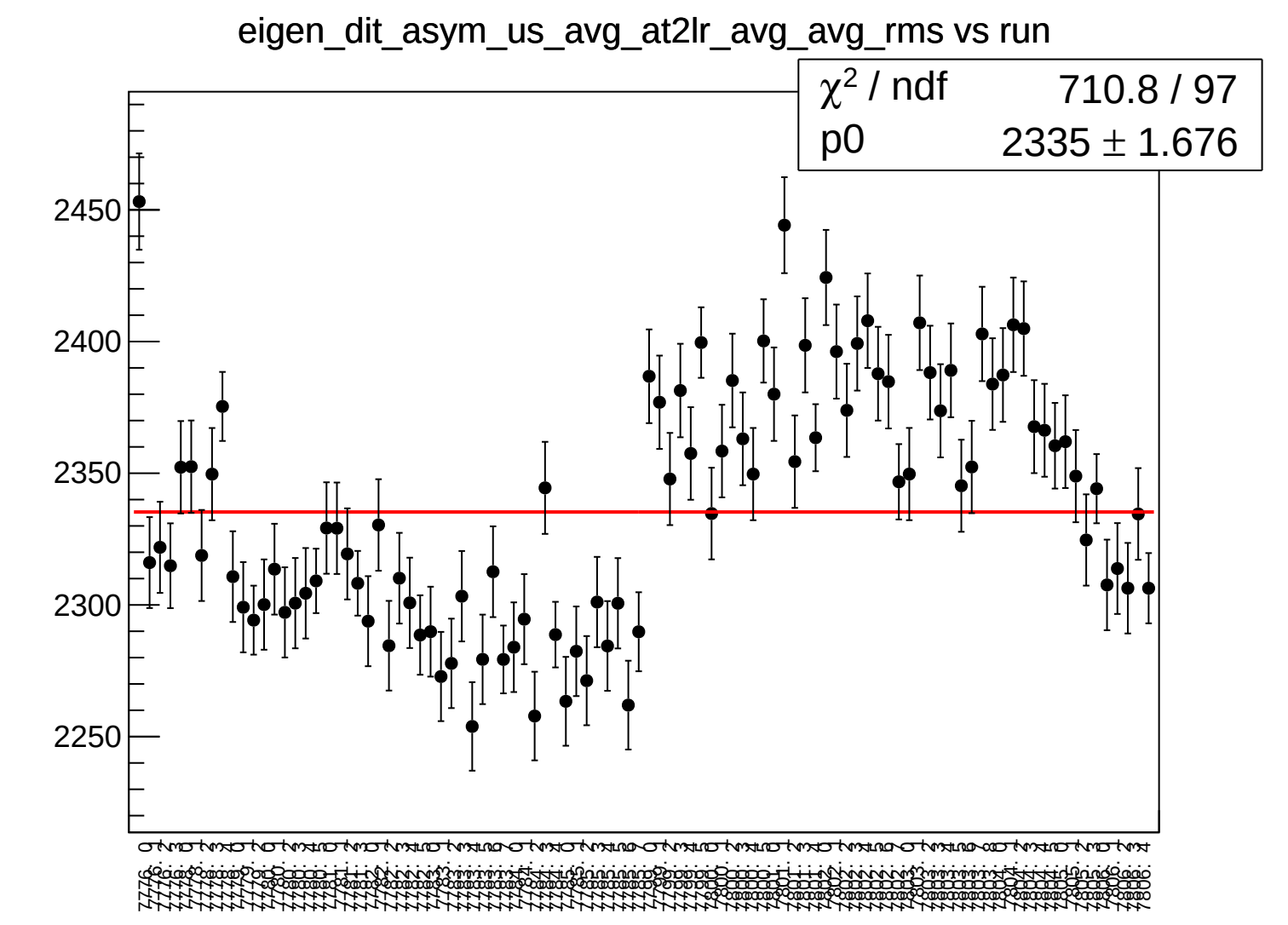

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 710.9 / 97
p0 2335 ± 1.676
2450
2400
2350
2300
2250

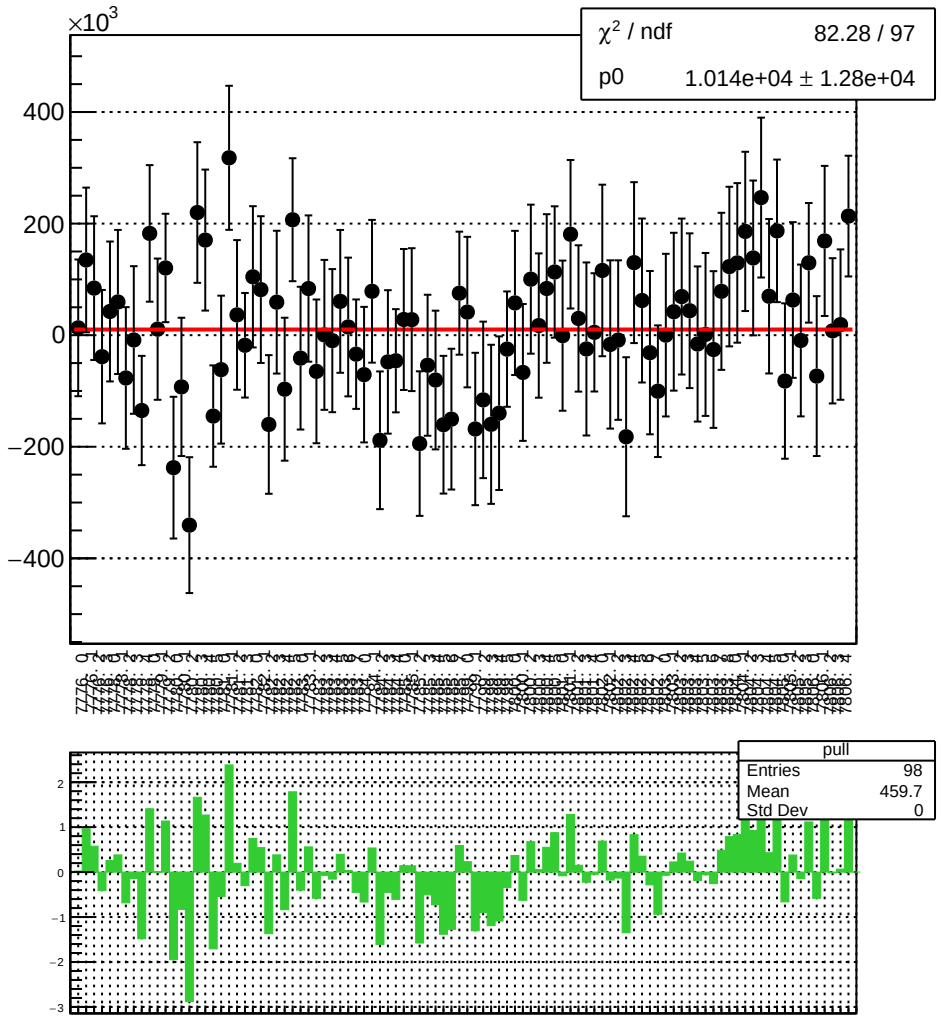

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.28 / 97
p0 1.014e+04 ± 1.28e+04
400
200
0
−200
−400
pull
Entries 98
Mean 459.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.01198
Std Dev 0.9162
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

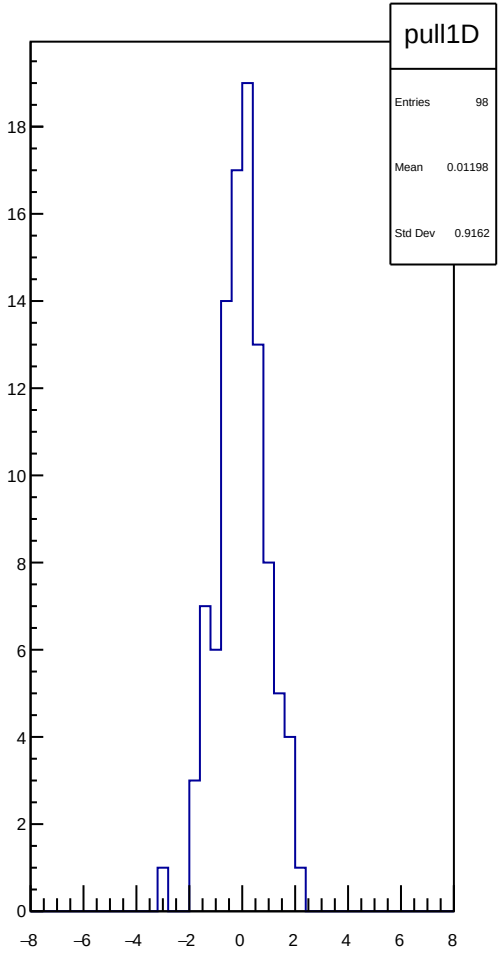

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 6261 / 97
p0 1.259e+04 ± 9.05
15000
14500
14000
13500
13000
12500
12000
11500

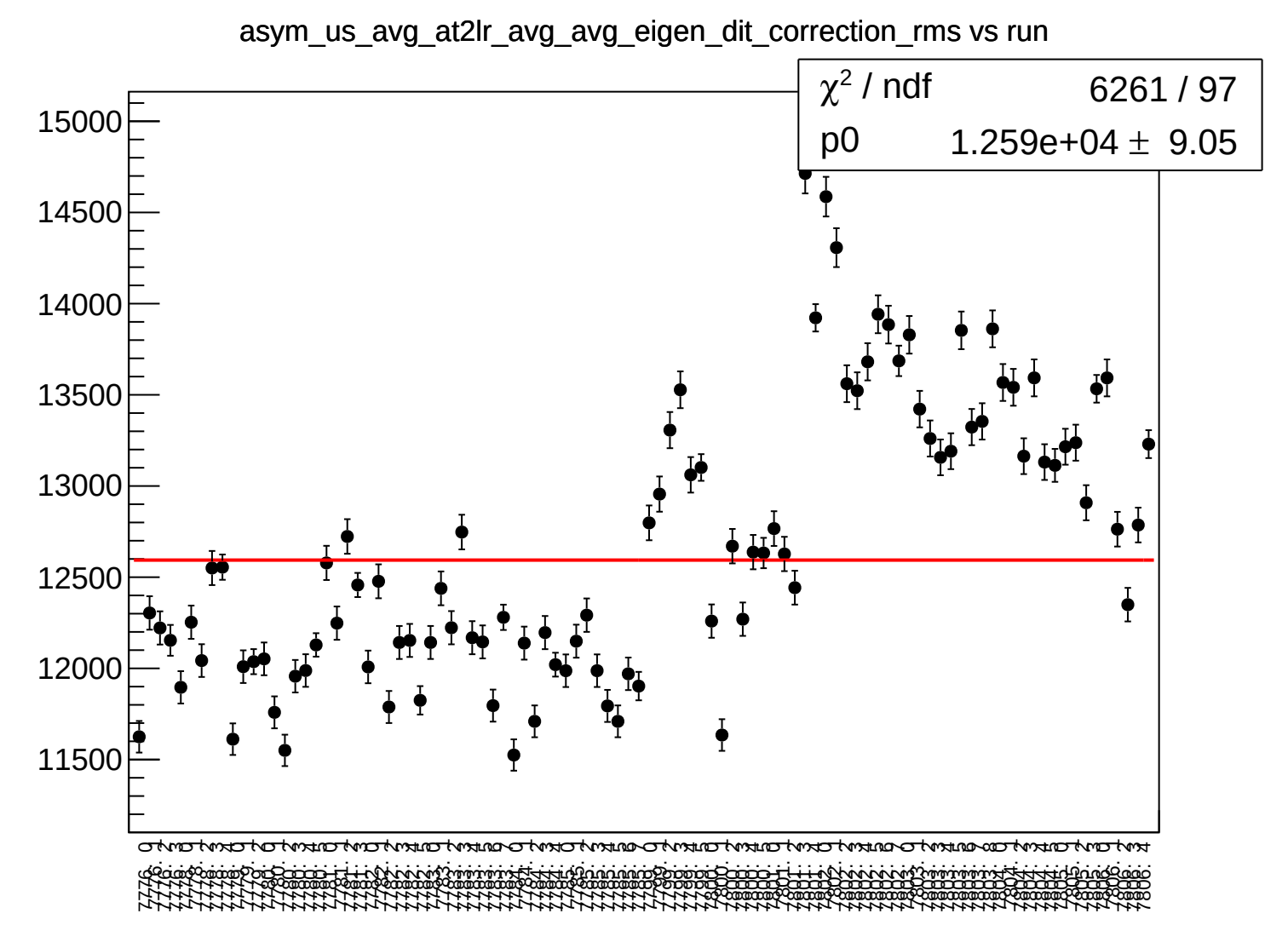

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 77.77 / 97
p0 4670 ± 2370
pull
Entries 98
Mean −941.4
Std Dev 0

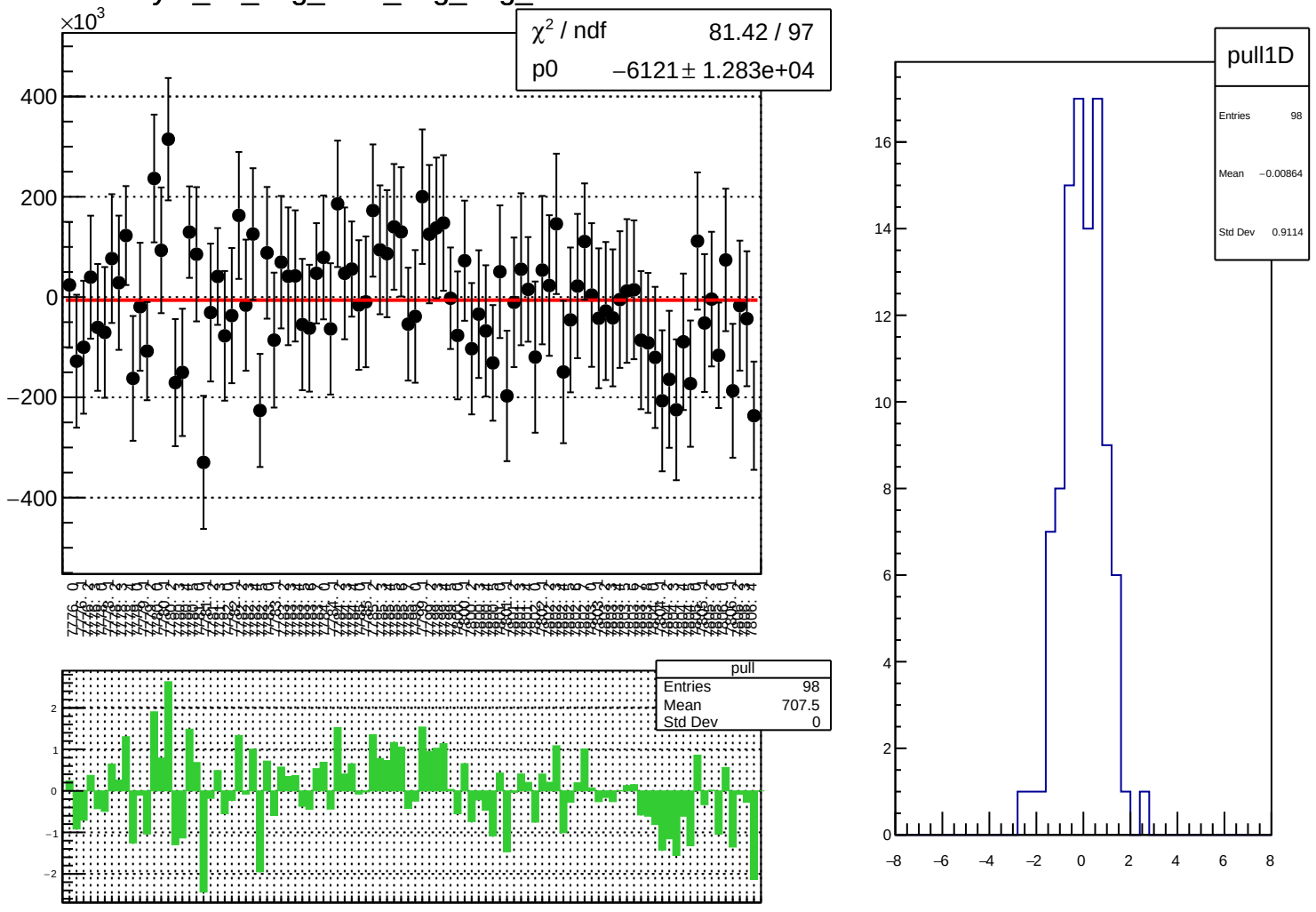

pull1D
Entries 98
Mean 0.003677
Std Dev 0.8908

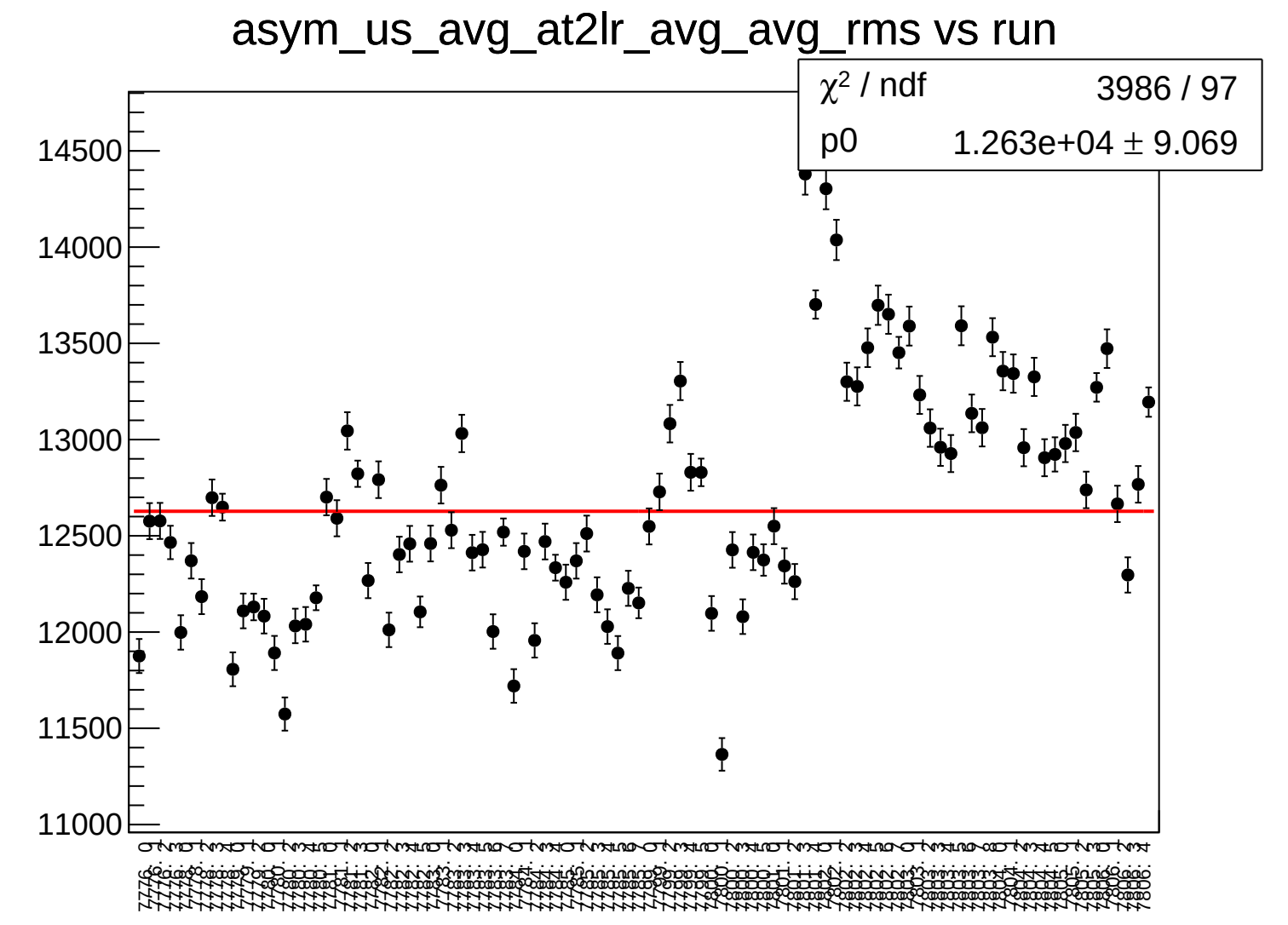

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 710.8 / 97
p0 2335 ± 1.676
2450
2400
2350
2300
2250

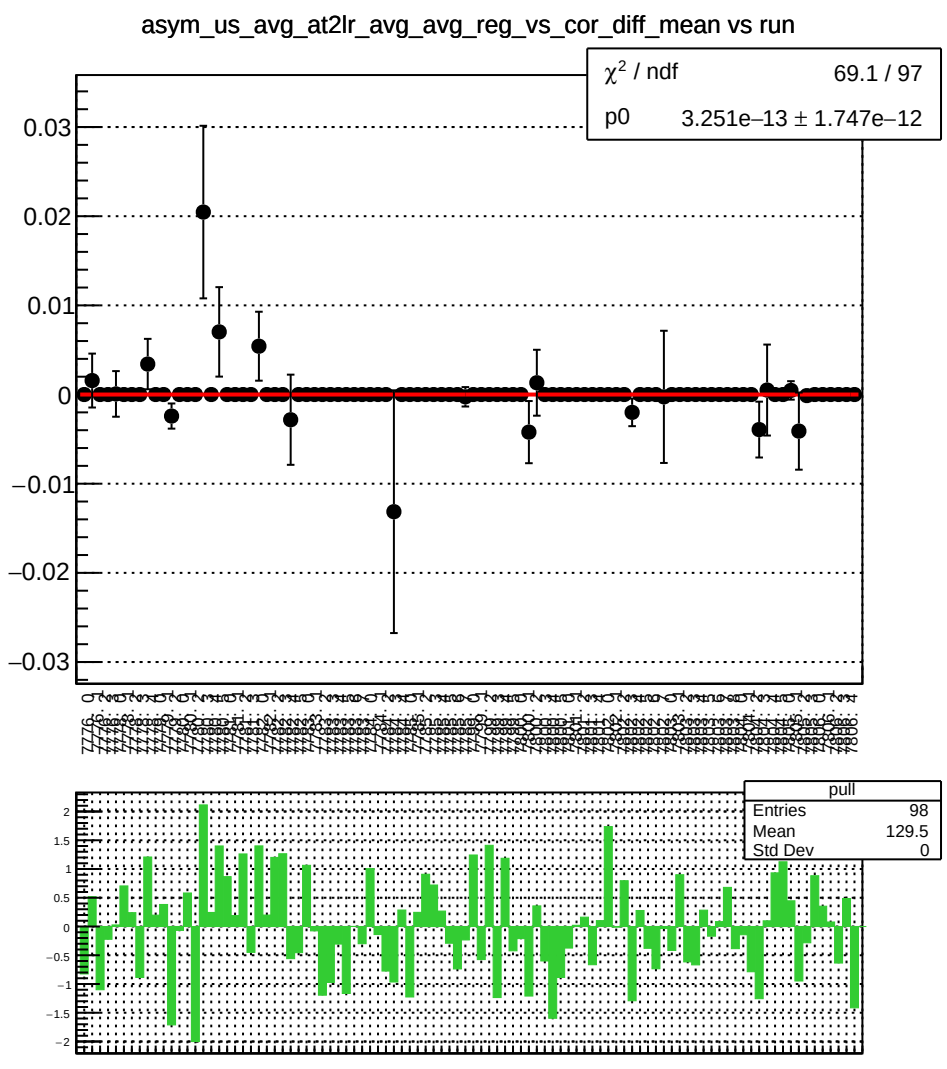

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.28 / 97
p0 1.014e+04 ± 1.28e+04
400
200
0
−200
−400
pull
Entries 98
Mean 459.7
Std Dev 0
2
1
0
−1
−2
−3

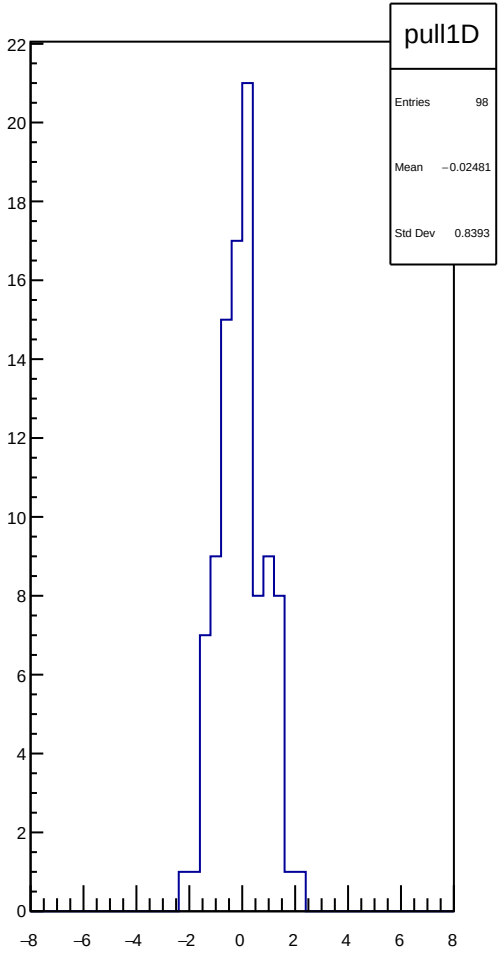

pull1D
Entries 98
Mean 0.01198
Std Dev 0.9162
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

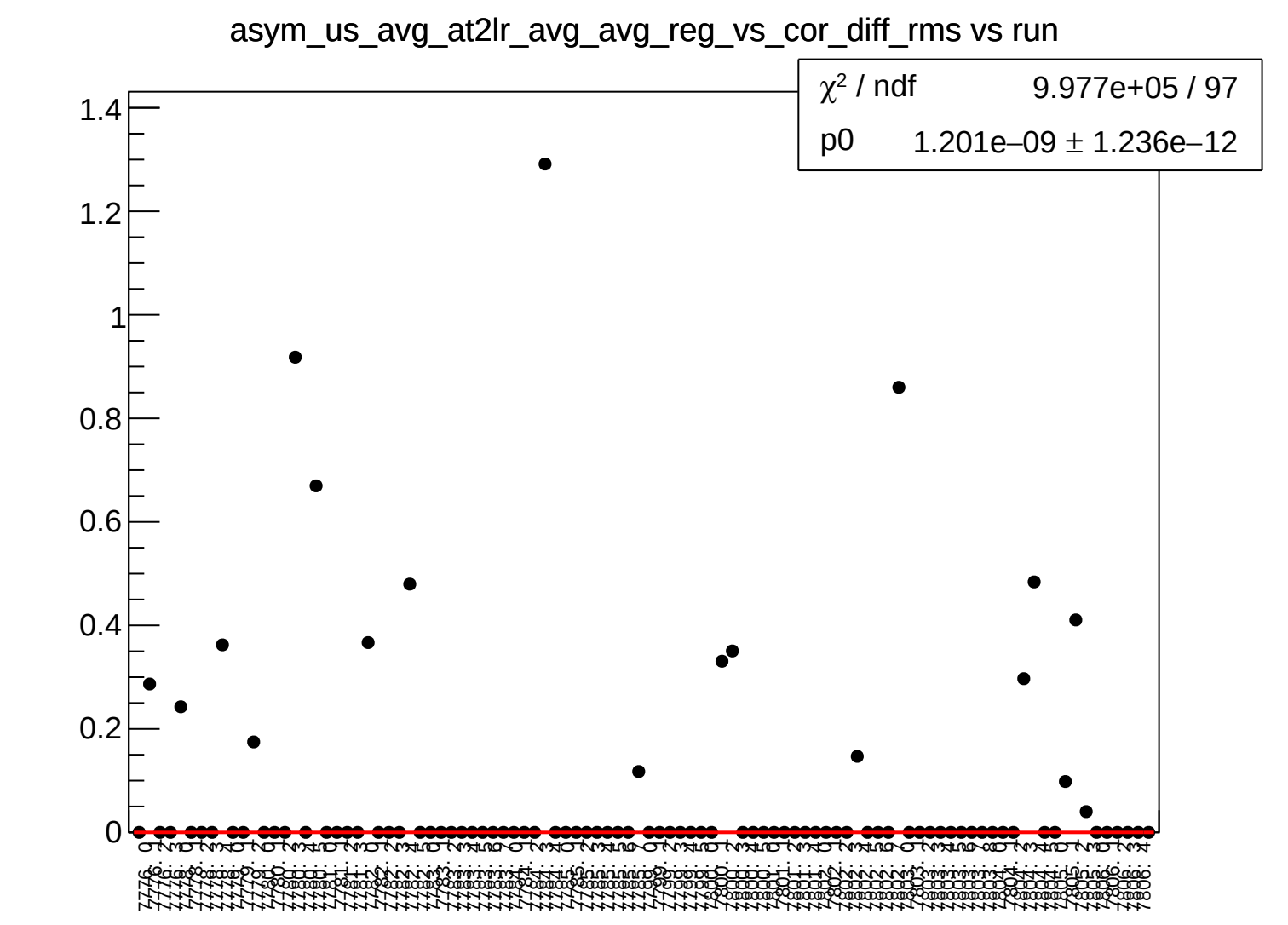

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6261 / 97
p0 1.259e+04 ± 9.05
15000
14500
14000
13500
13000
12500
12000
11500

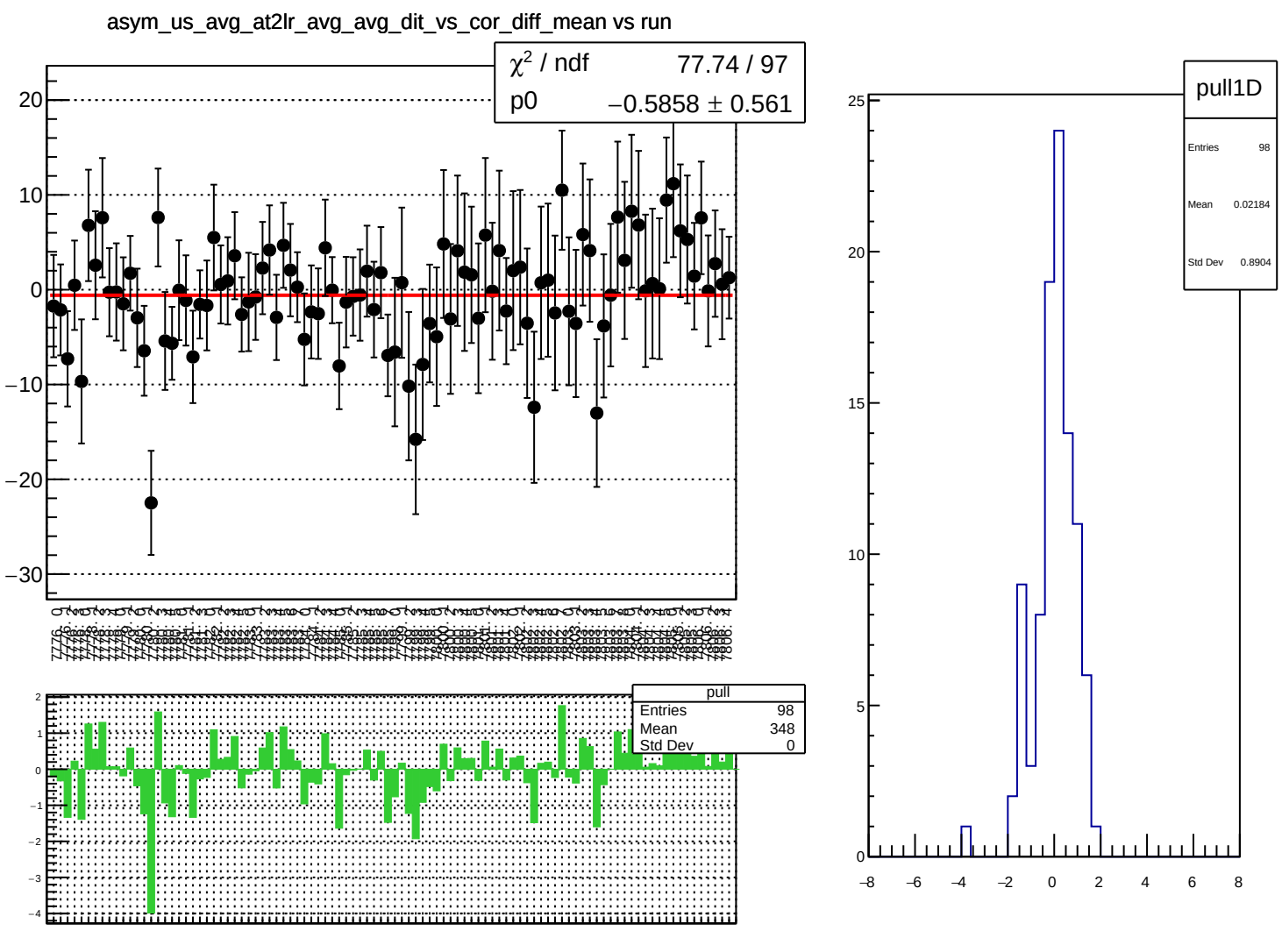

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 81.42 / 97
p0 −6121 ± 1.283e+04
400
200
0
−200
−400
pull
Entries 98
Mean 707.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.00864
Std Dev 0.9114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

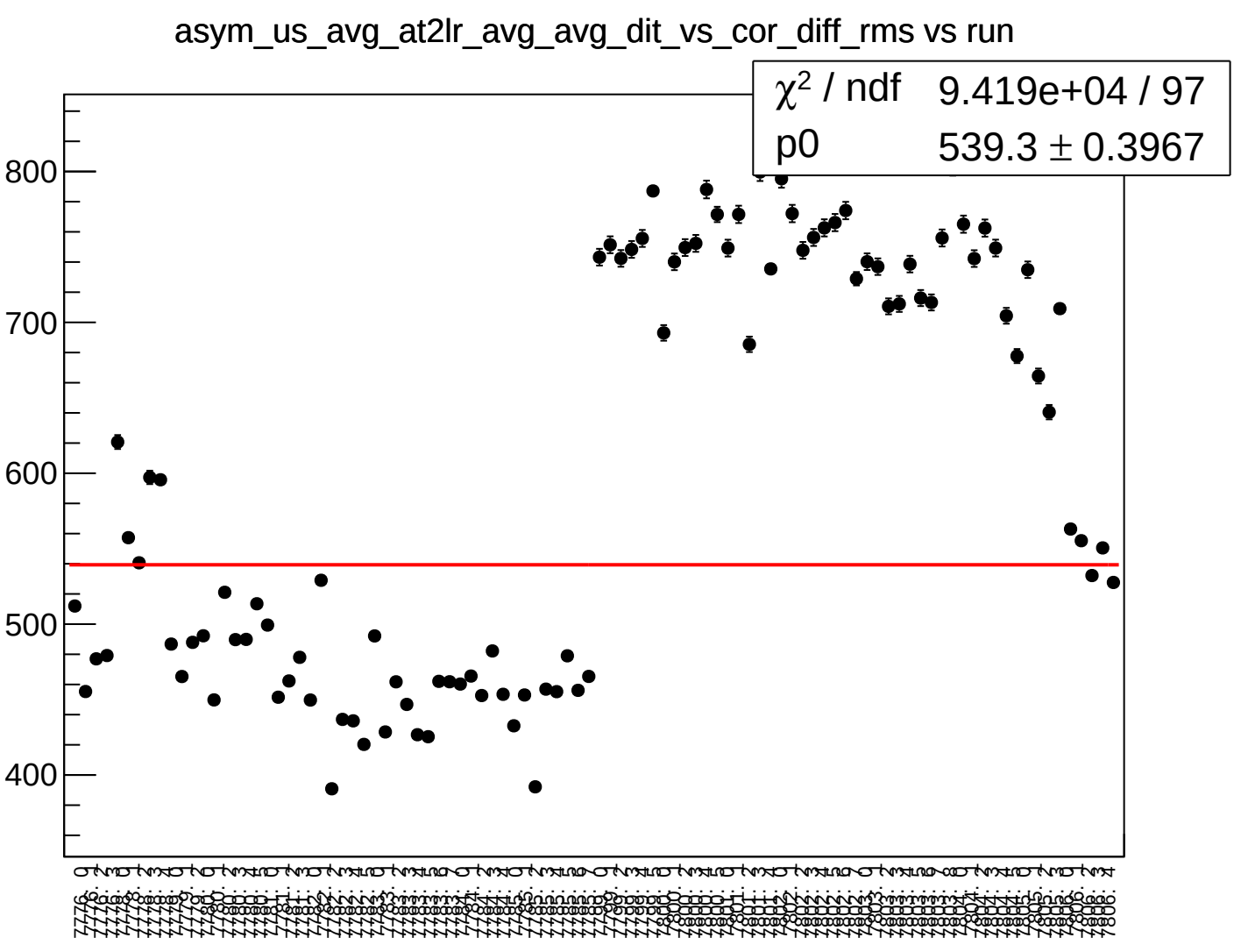

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3986 / 97
p0 1.263e+04 ± 9.069
14500
14000
13500
13000
12500
12000
11500
11000

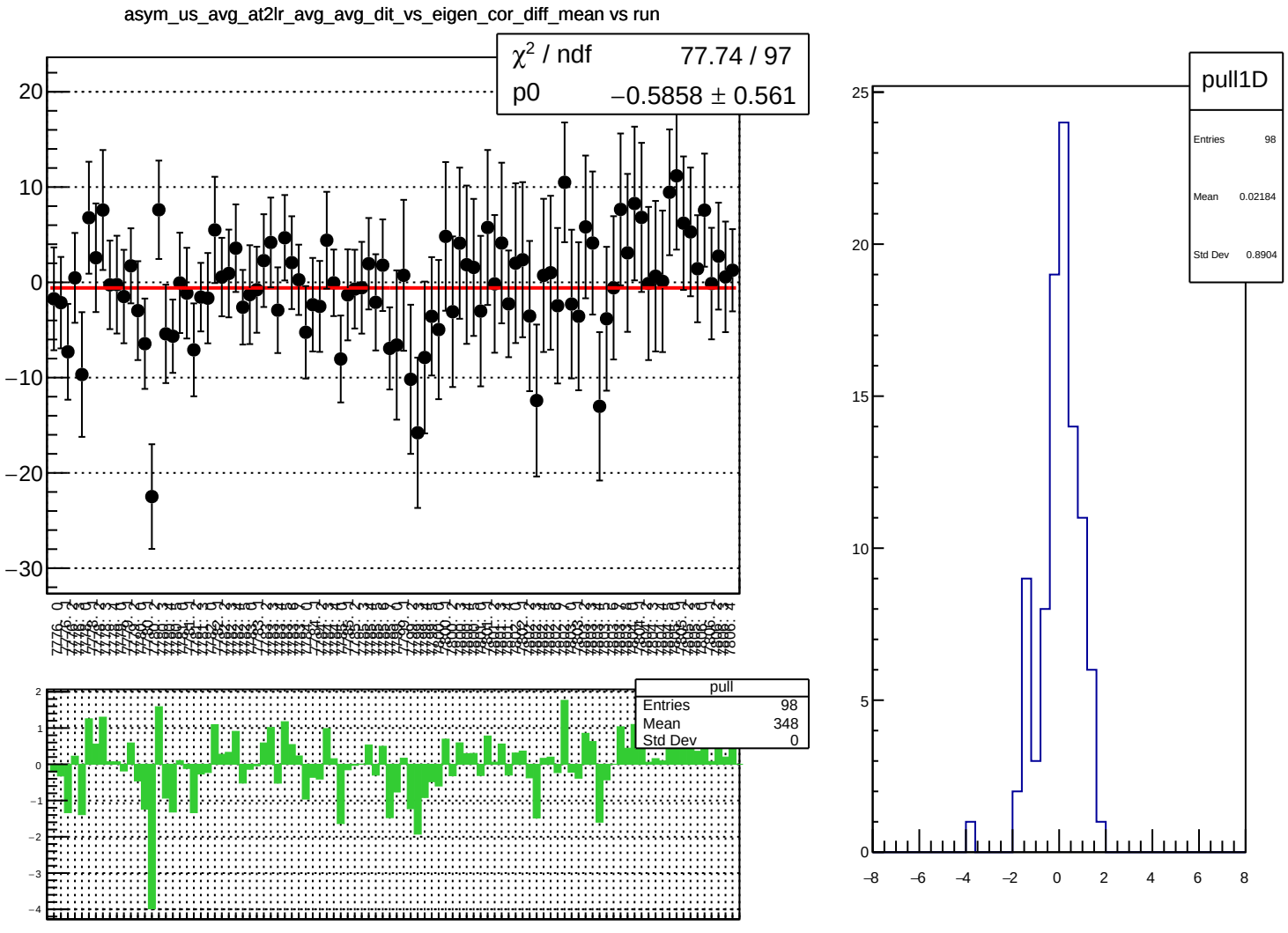

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.1 / 97
p0 3.251e−13 ± 1.747e−12
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 98
Mean 129.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

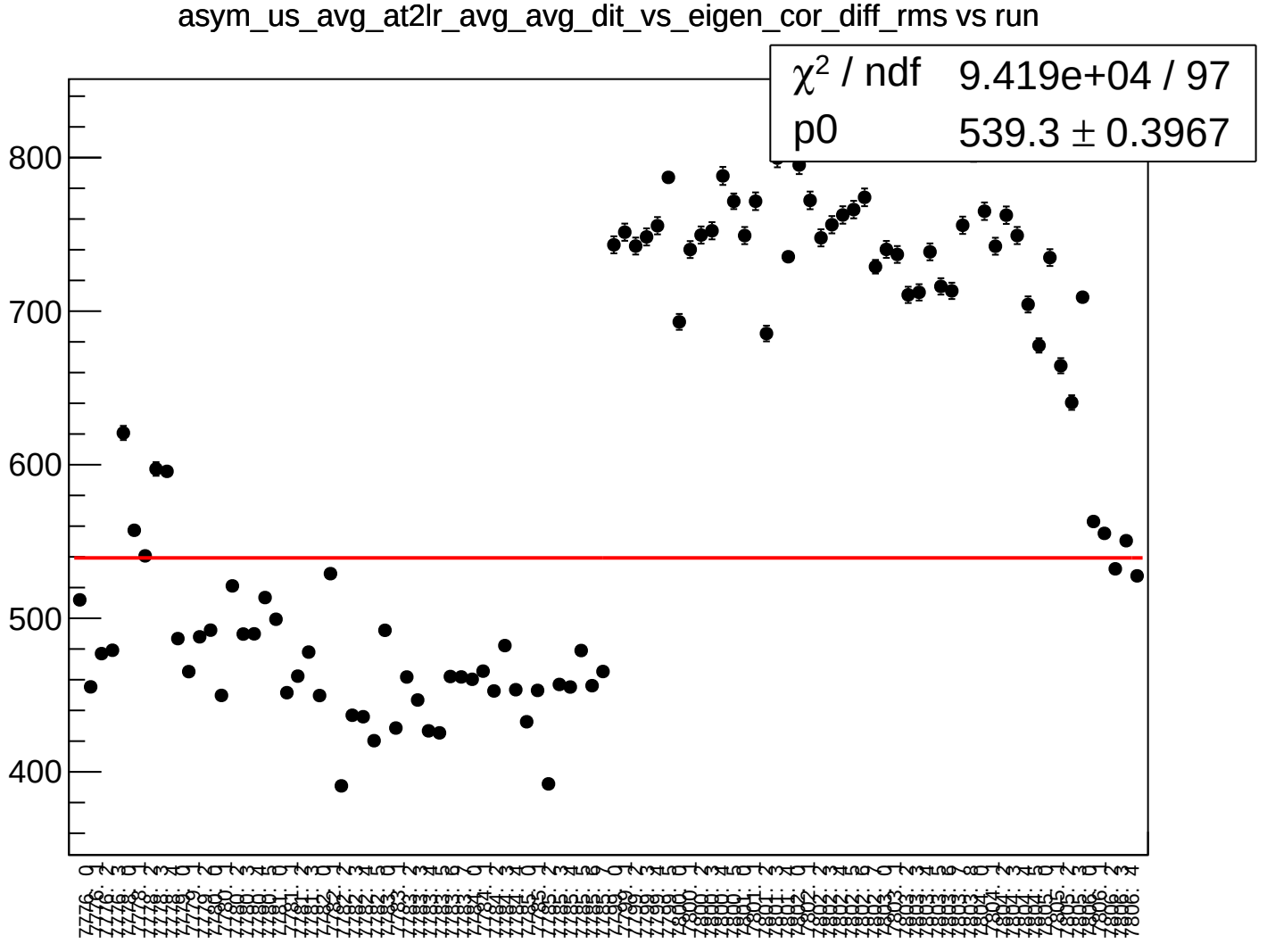

pull1D
Entries 98
Mean −0.02481
Std Dev 0.8393
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

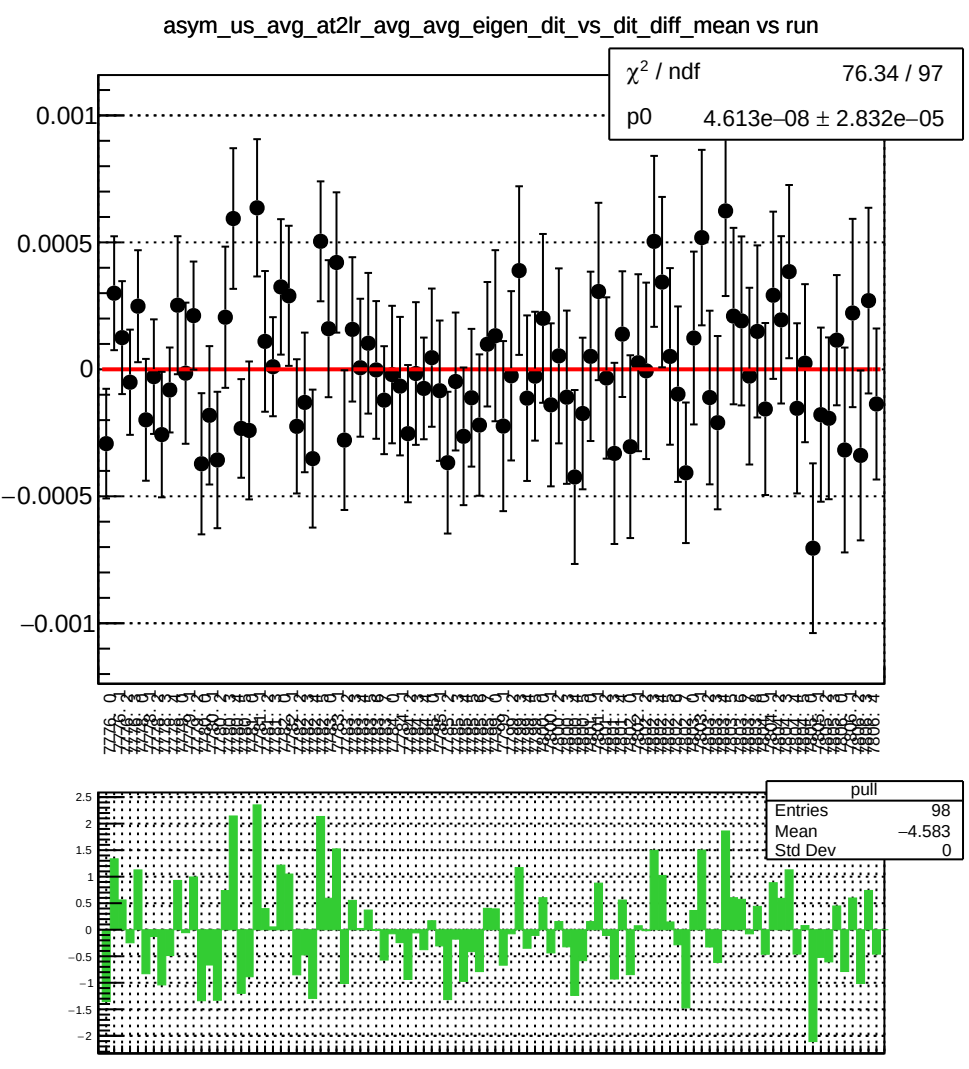

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.977e+05 / 97
p0 1.201e−09 ± 1.236e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

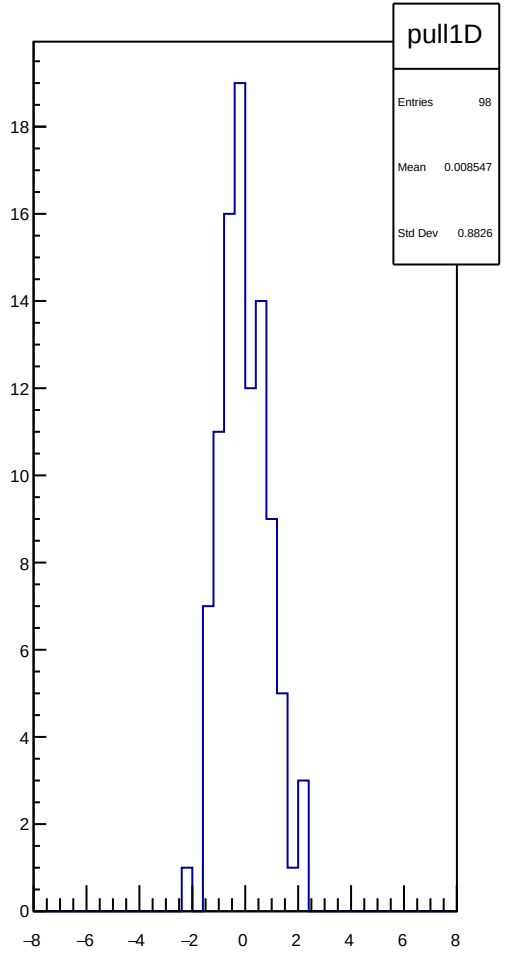

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.74 / 97
p0 −0.5858 ± 0.561
pull
Entries 98
Mean 348
Std Dev 0
pull1D
Entries 98
Mean 0.02184
Std Dev 0.8904

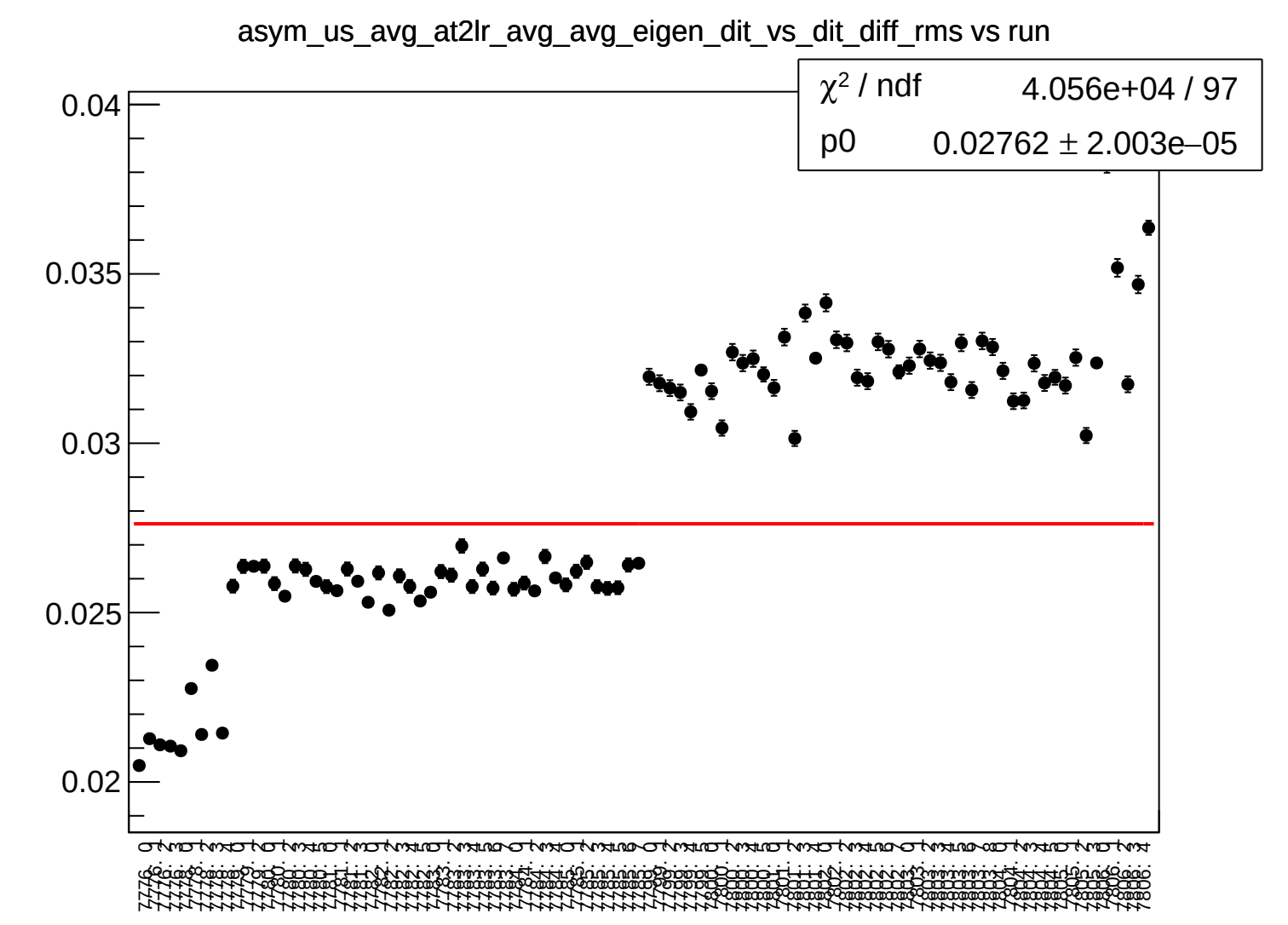

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.419e+04 / 97
p0 539.3 ± 0.3967
800
700
600
500
400

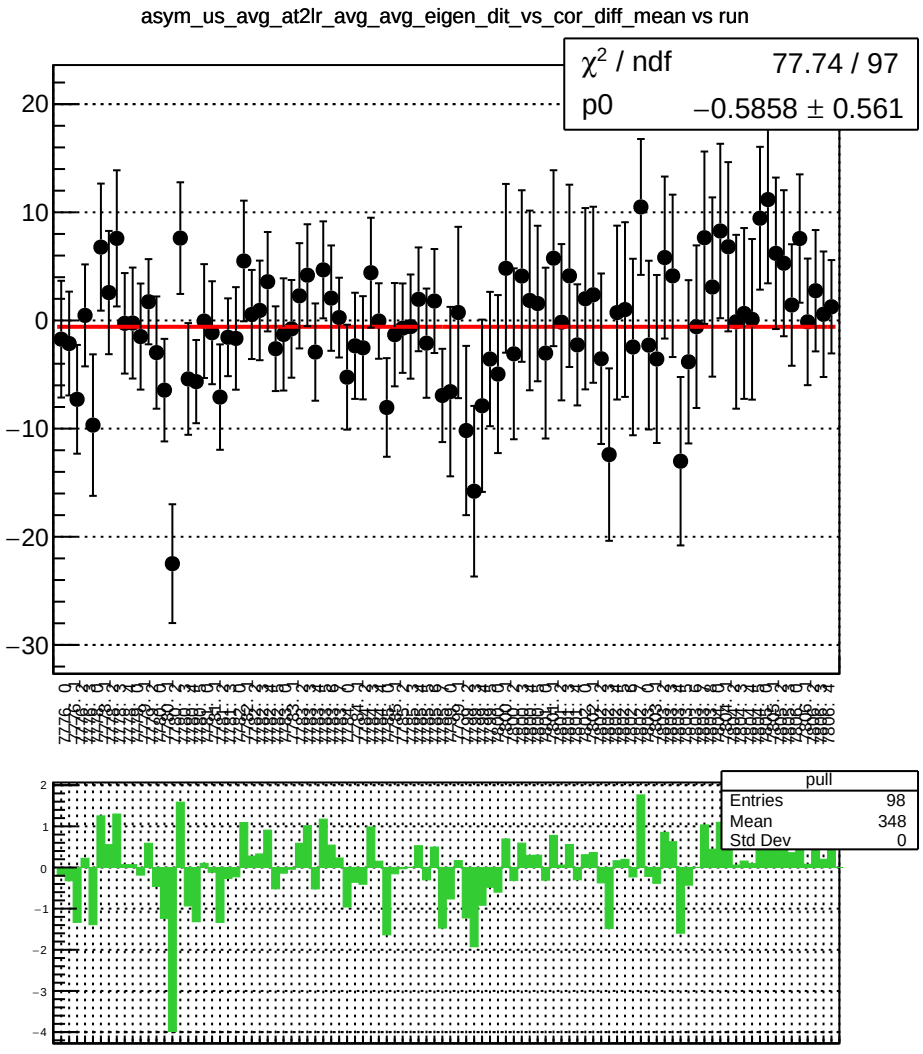

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.74 / 97
p0 −0.5858 ± 0.561
pull
Entries 98
Mean 348
Std Dev 0
pull1D
Entries 98
Mean 0.02184
Std Dev 0.8904

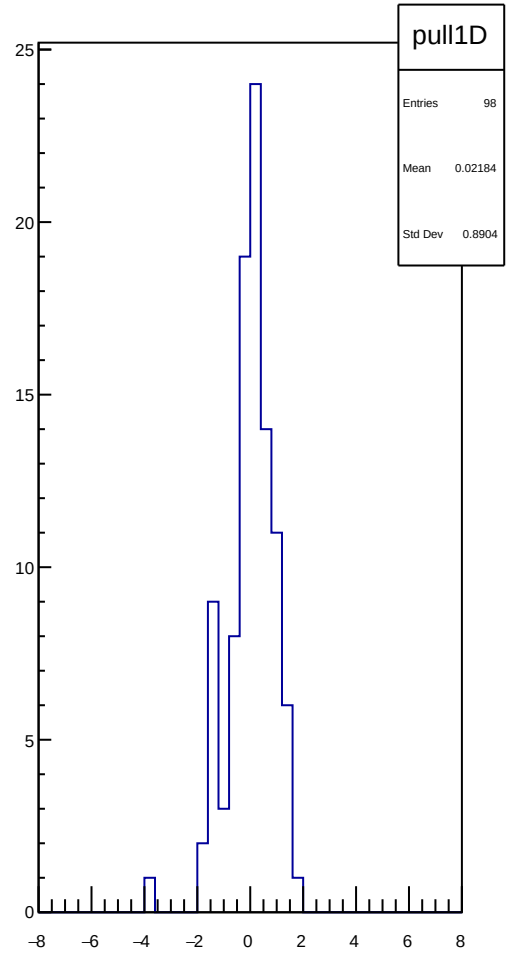

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.419e+04 / 97
p0 539.3 ± 0.3967
800
700
600
500
400

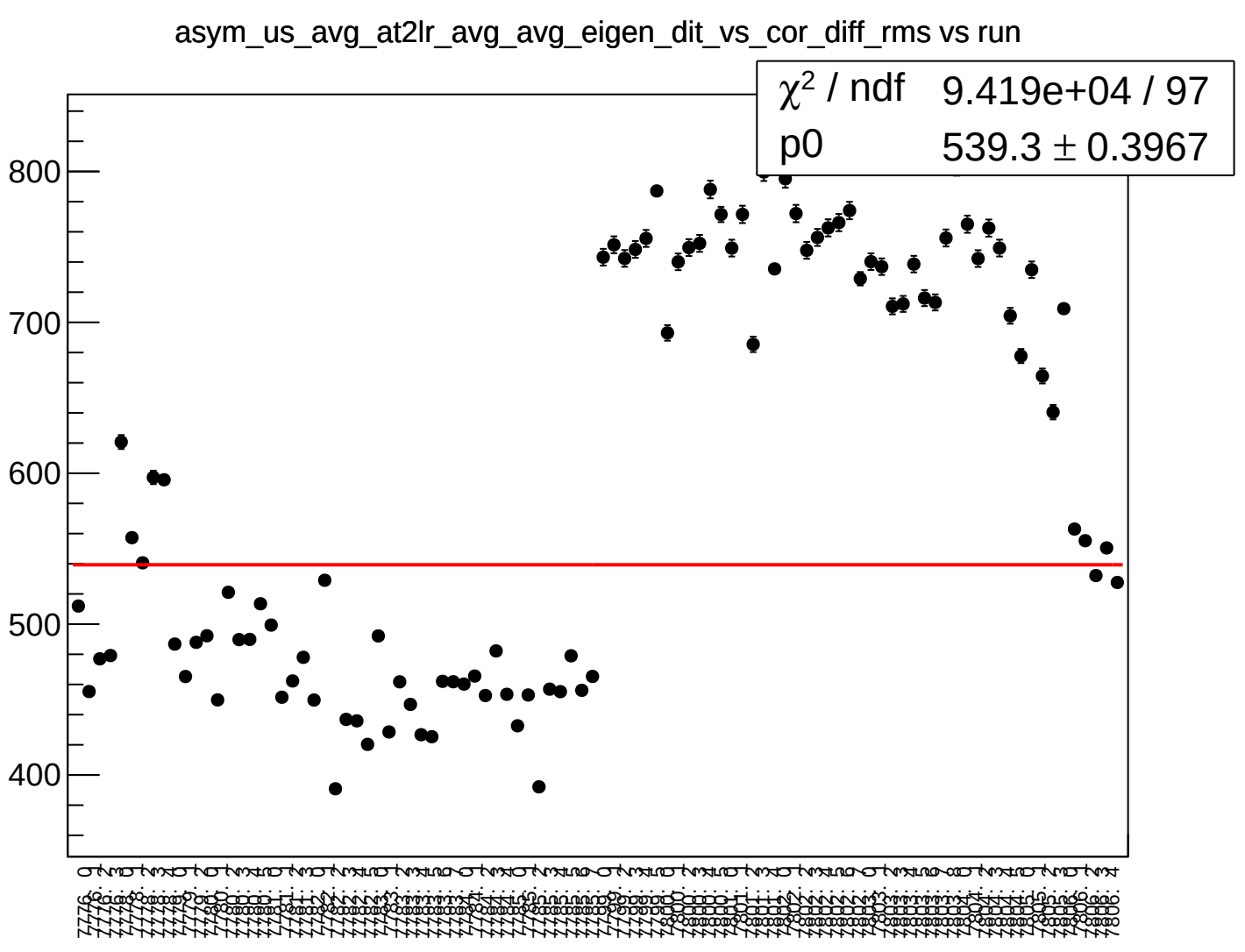

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.34 / 97
p0 4.613e−08 ± 2.832e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 98
Mean −4.583
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

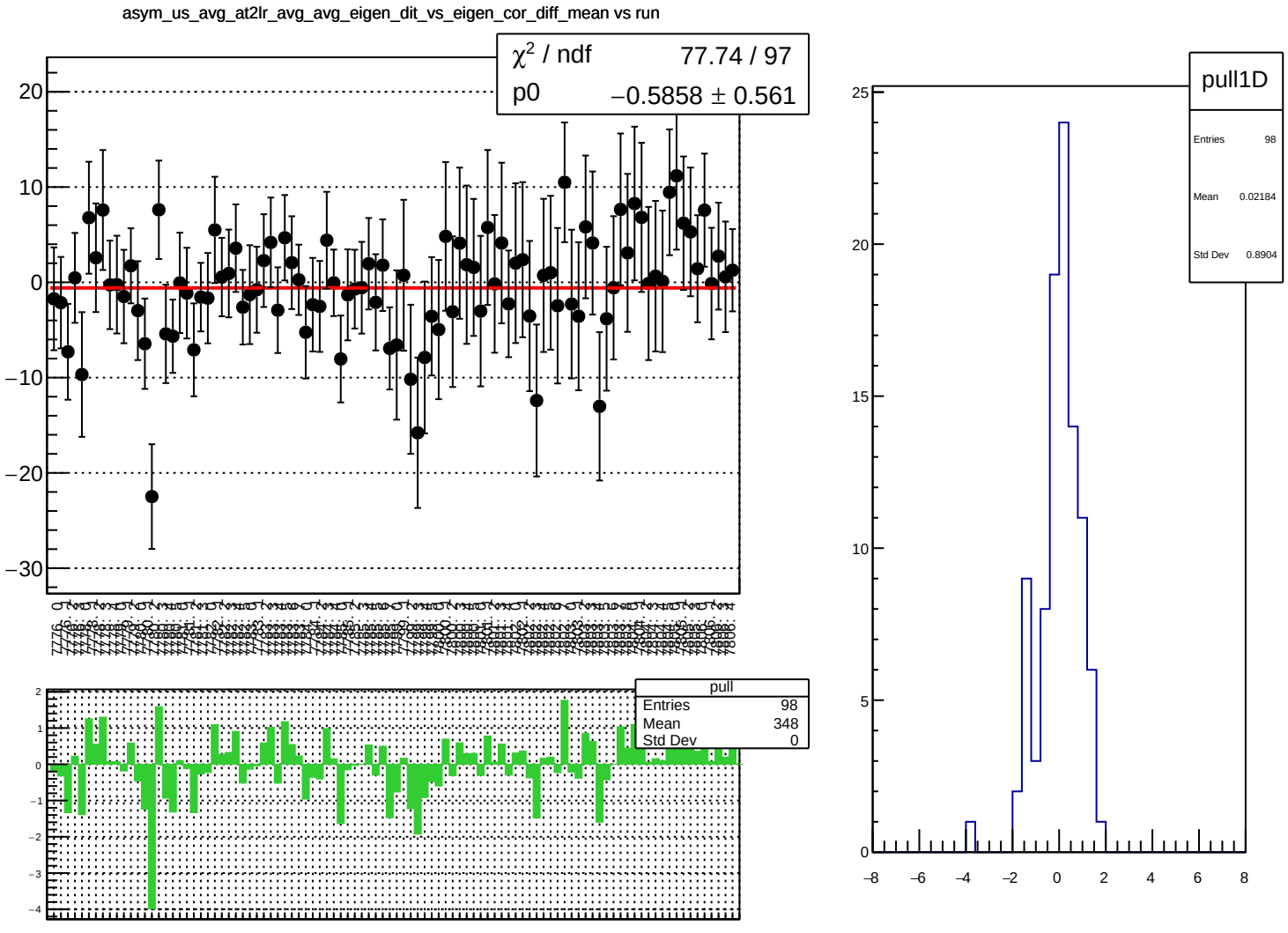

pull1D
Entries 98
Mean 0.008547
Std Dev 0.8826
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

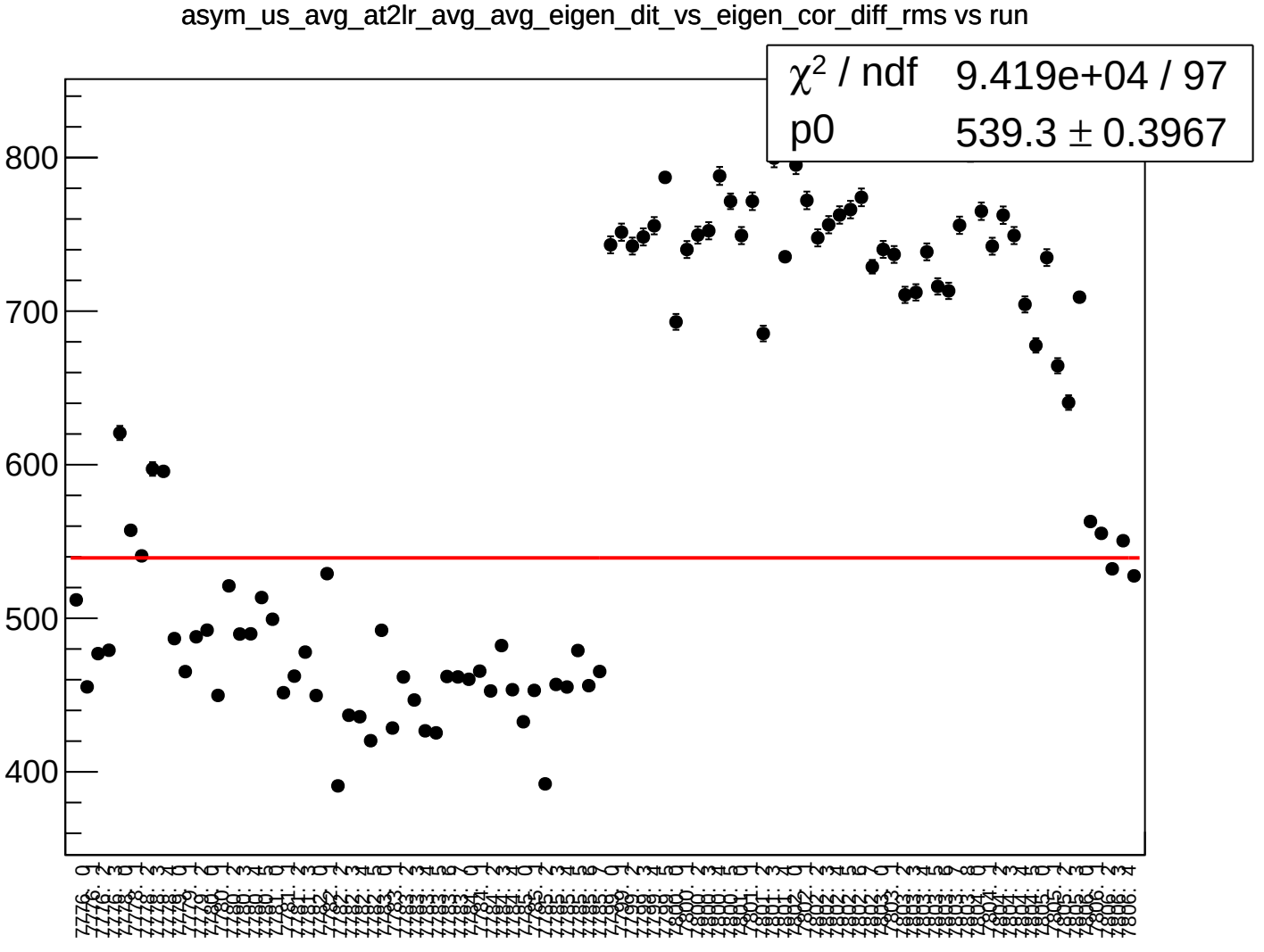

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.056e+04 / 97
p0 0.02762 ± 2.003e–05
0.04
0.035
0.03
0.025
0.02

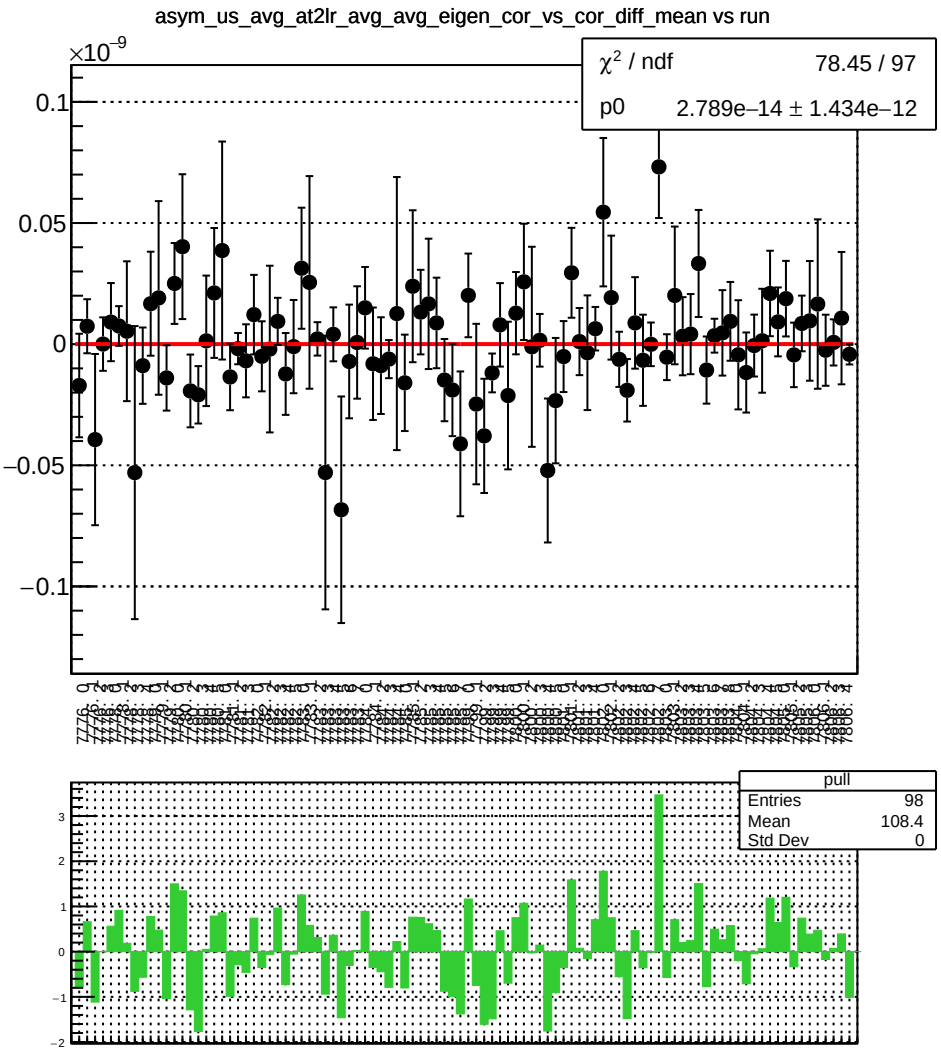

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.74 / 97
p0 −0.5858 ± 0.561
pull
Entries 98
Mean 348
Std Dev 0

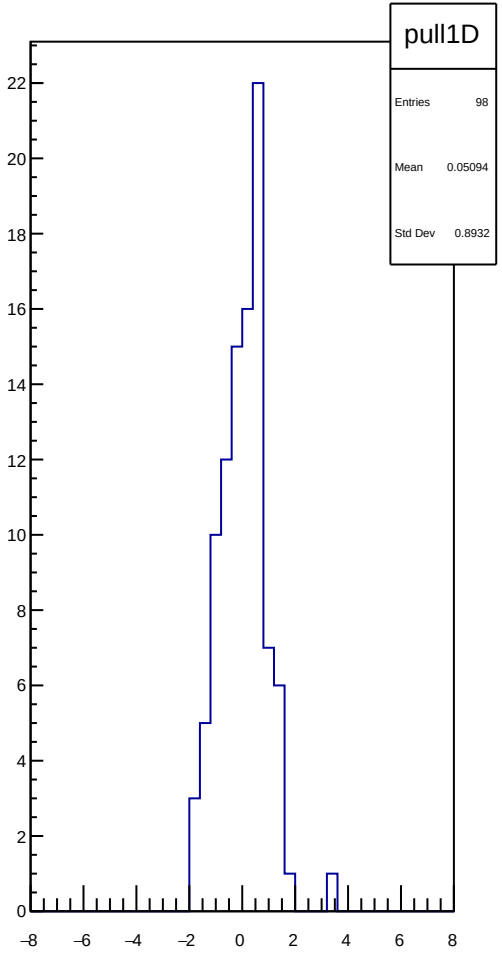

pull1D
Entries 98
Mean 0.02184
Std Dev 0.8904

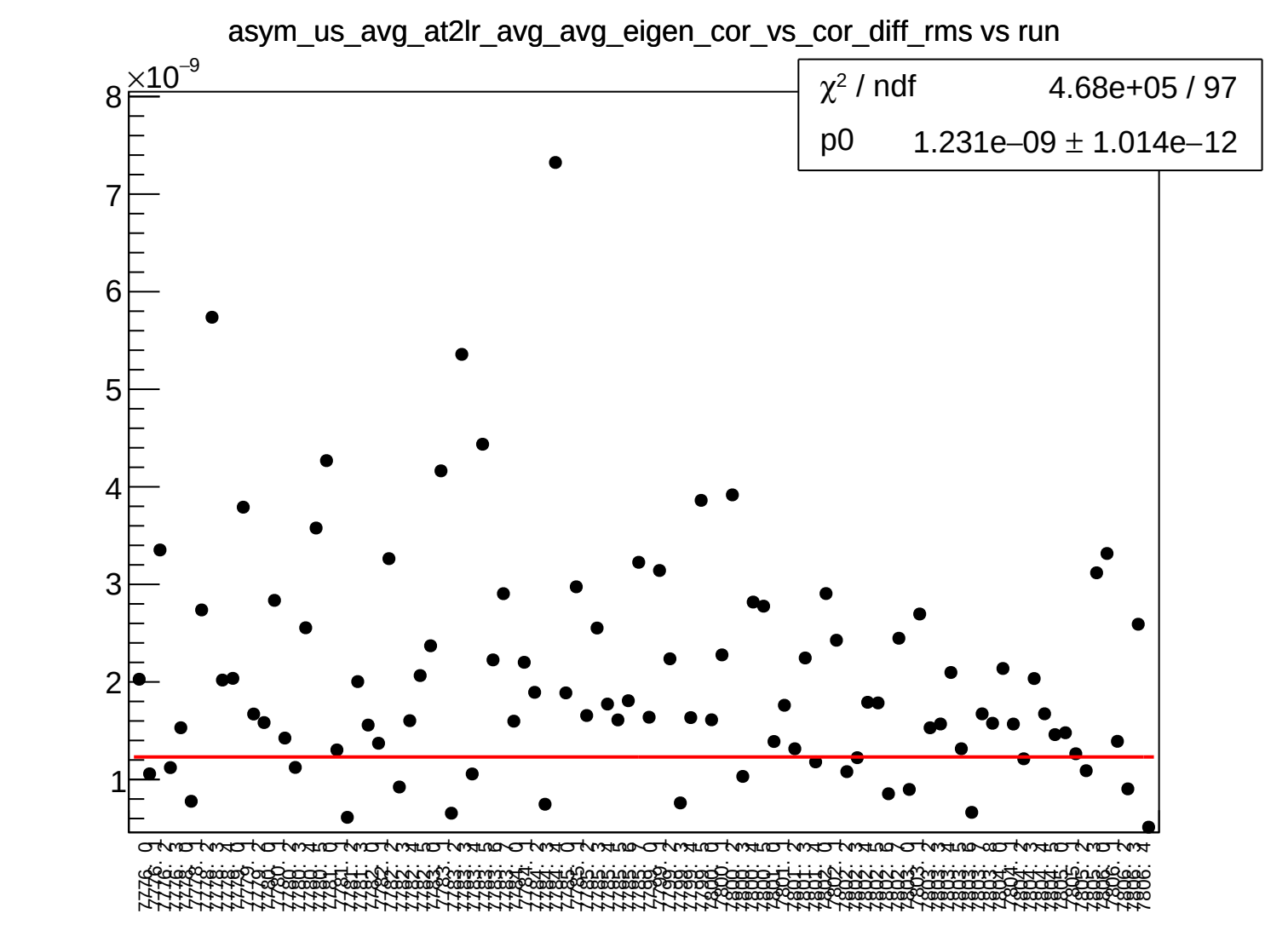

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.419e+04 / 97
p0 539.3 ± 0.3967
800
700
600
500
400

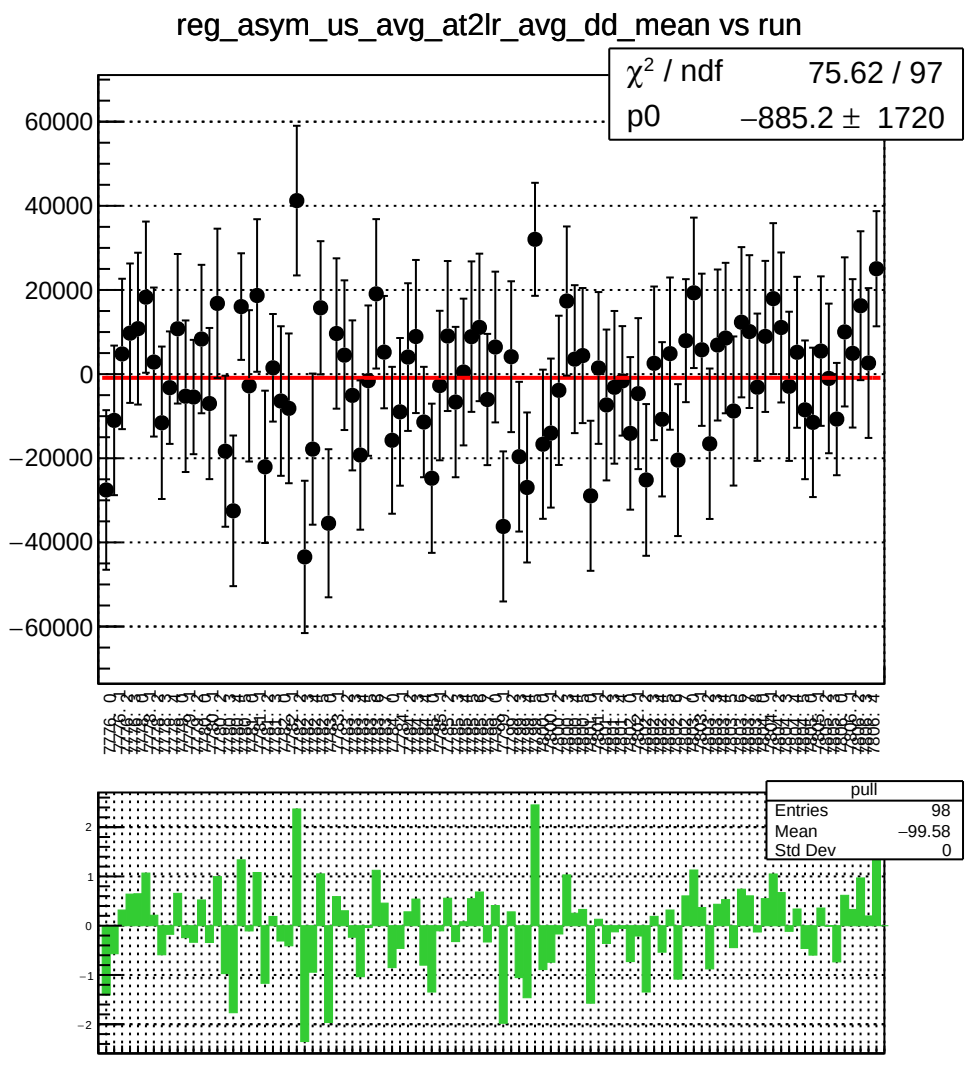

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.74 / 97
p0 −0.5858 ± 0.561
pull
Entries 98
Mean 348
Std Dev 0
pull1D
Entries 98
Mean 0.02184
Std Dev 0.8904

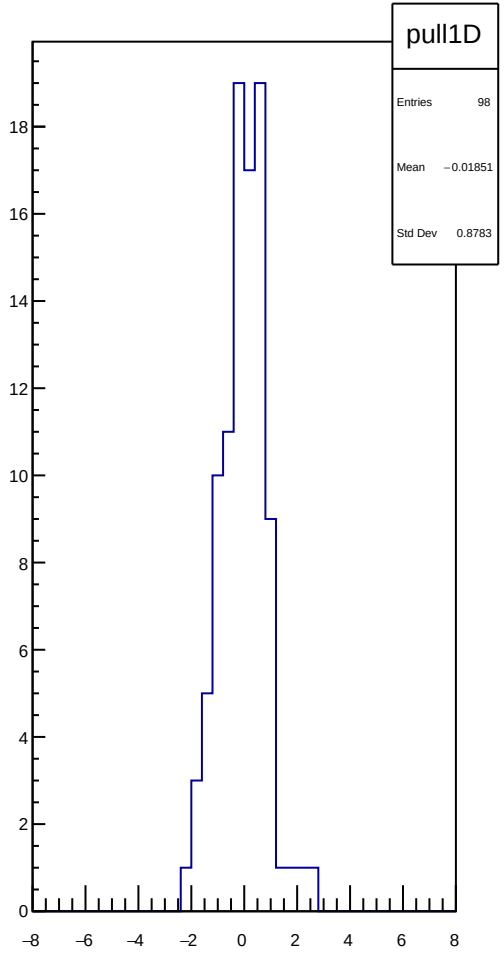

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.419e+04 / 97
p0 539.3 ± 0.3967
800
700
600
500
400

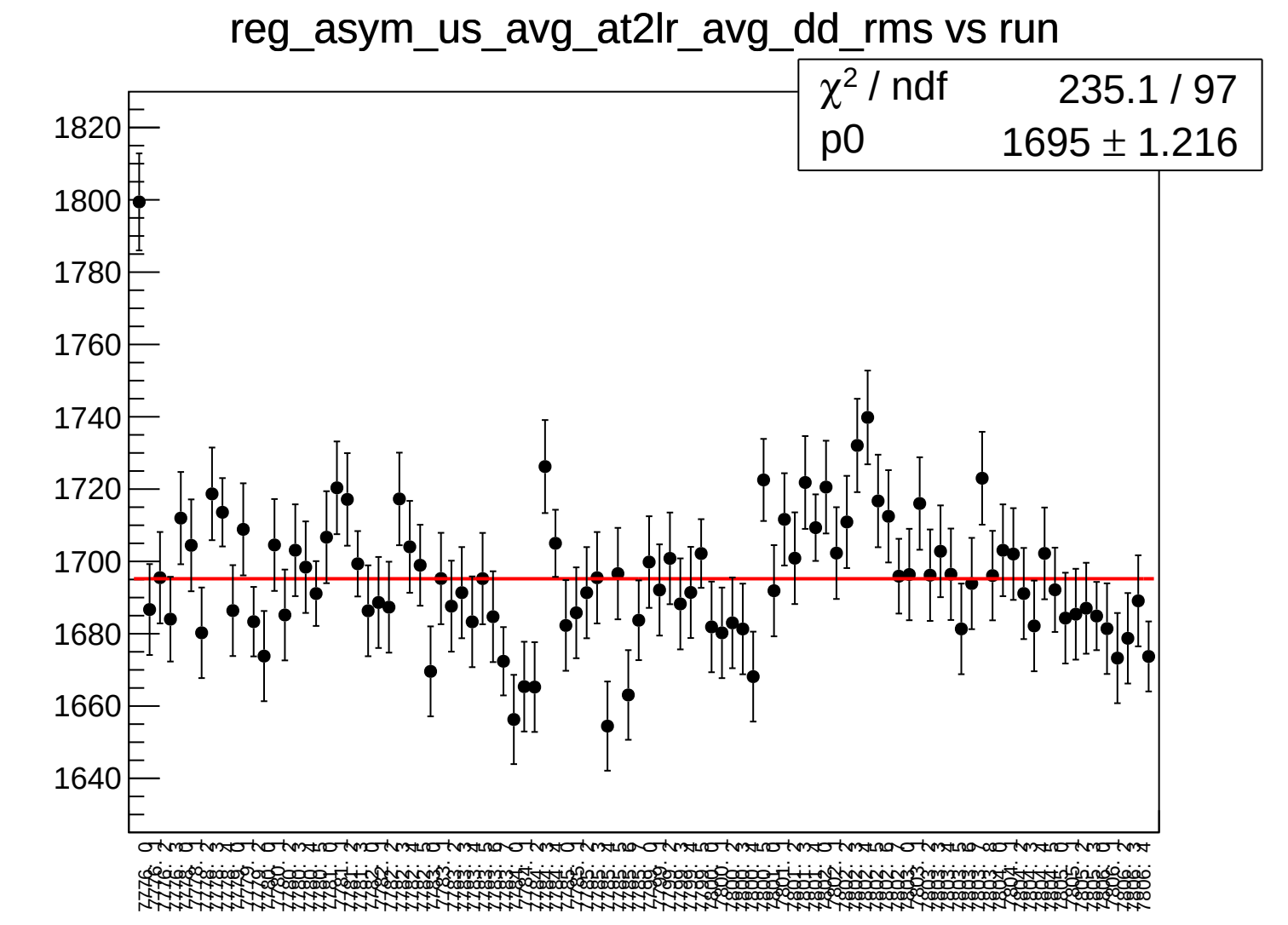

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 78.45 / 97
p0 2.789e−14 ± 1.434e−12
0.1
0.05
0
−0.05
−0.1
pull
Entries 98
Mean 108.4
Std Dev 0
3
2
1
0
−1
−2

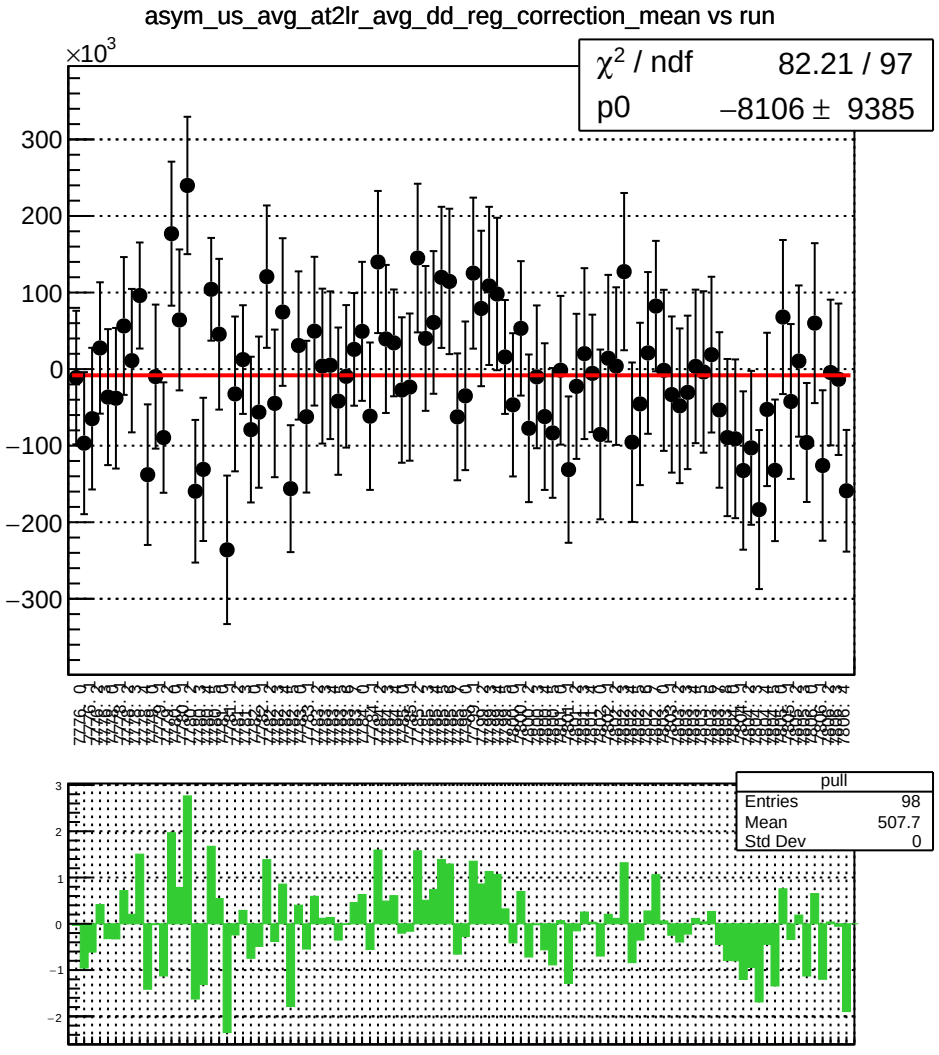

pull1D
Entries 98
Mean 0.05094
Std Dev 0.8932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

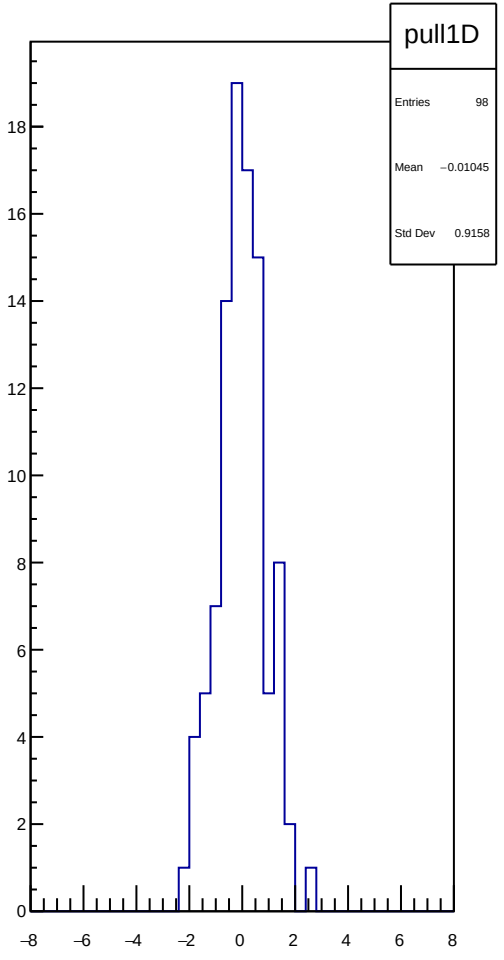

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.68e+05 / 97
p0 1.231e−09 ± 1.014e−12
8
7
6
5
4
3
2
1

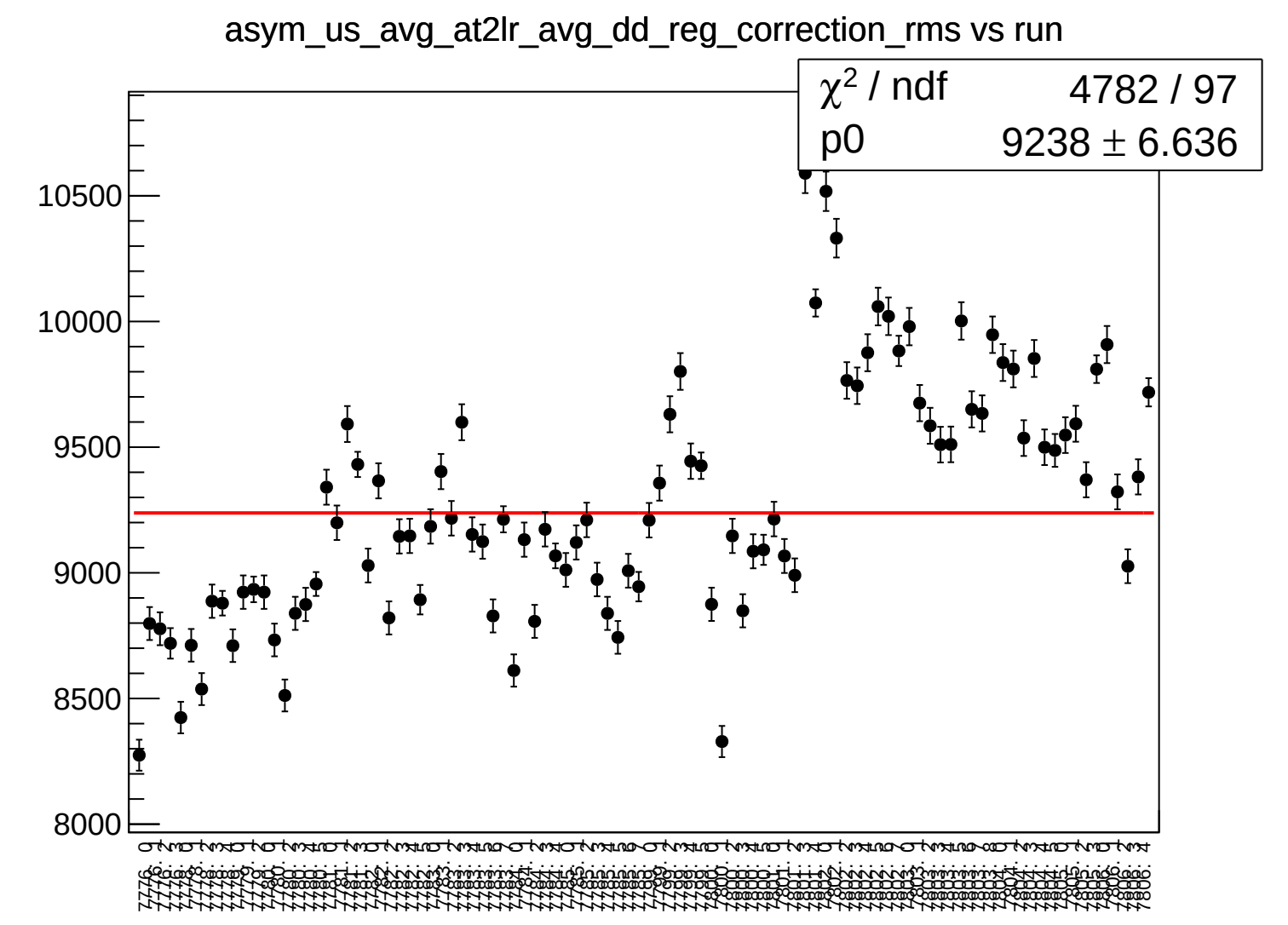

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 75.62 / 97
p0 −885.2 ± 1720
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −99.58
Std Dev 0
2
1
0
−1
−2

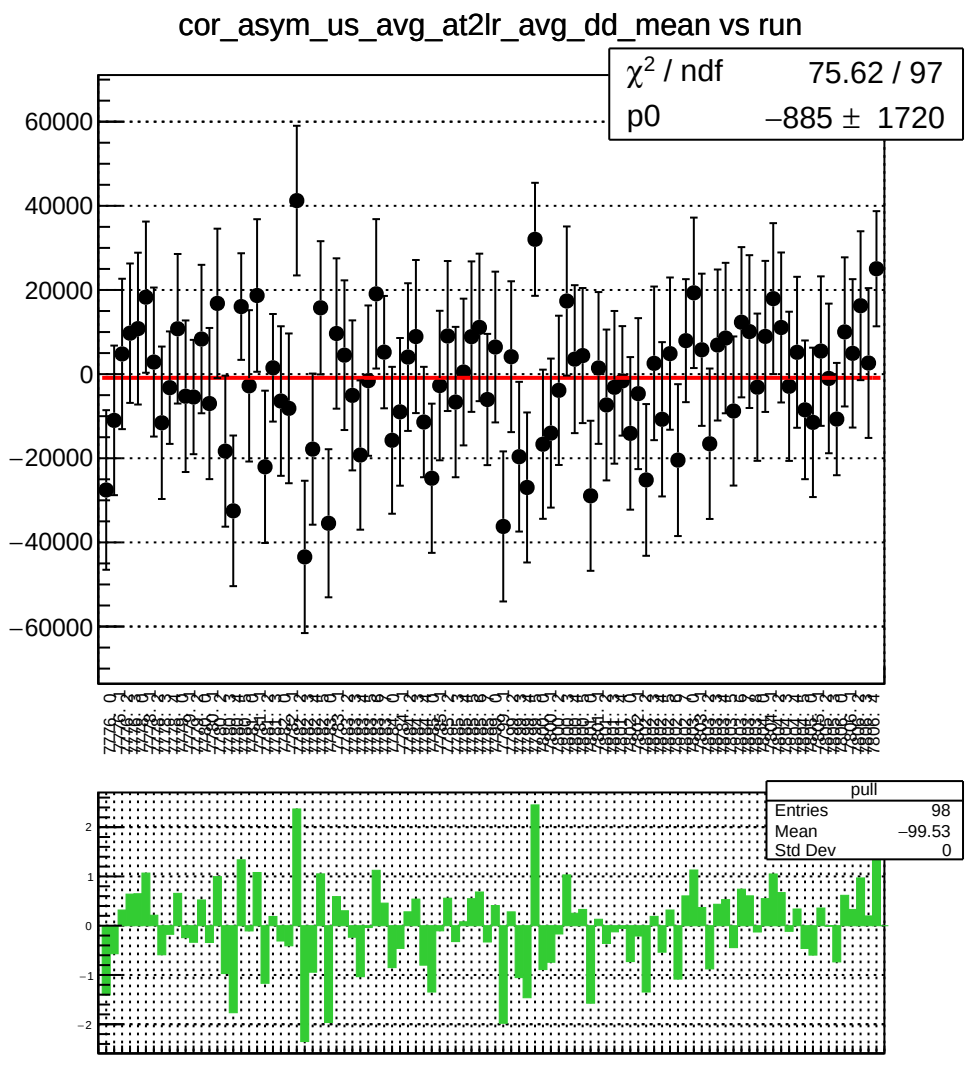

pull1D
Entries 98
Mean −0.01851
Std Dev 0.8783
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

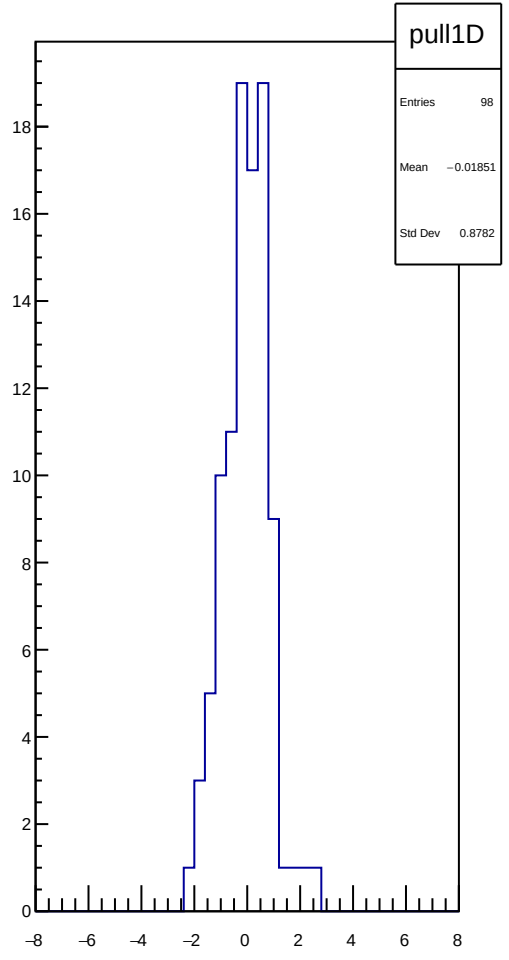

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 235.1 / 97
p0 1695 ± 1.216
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

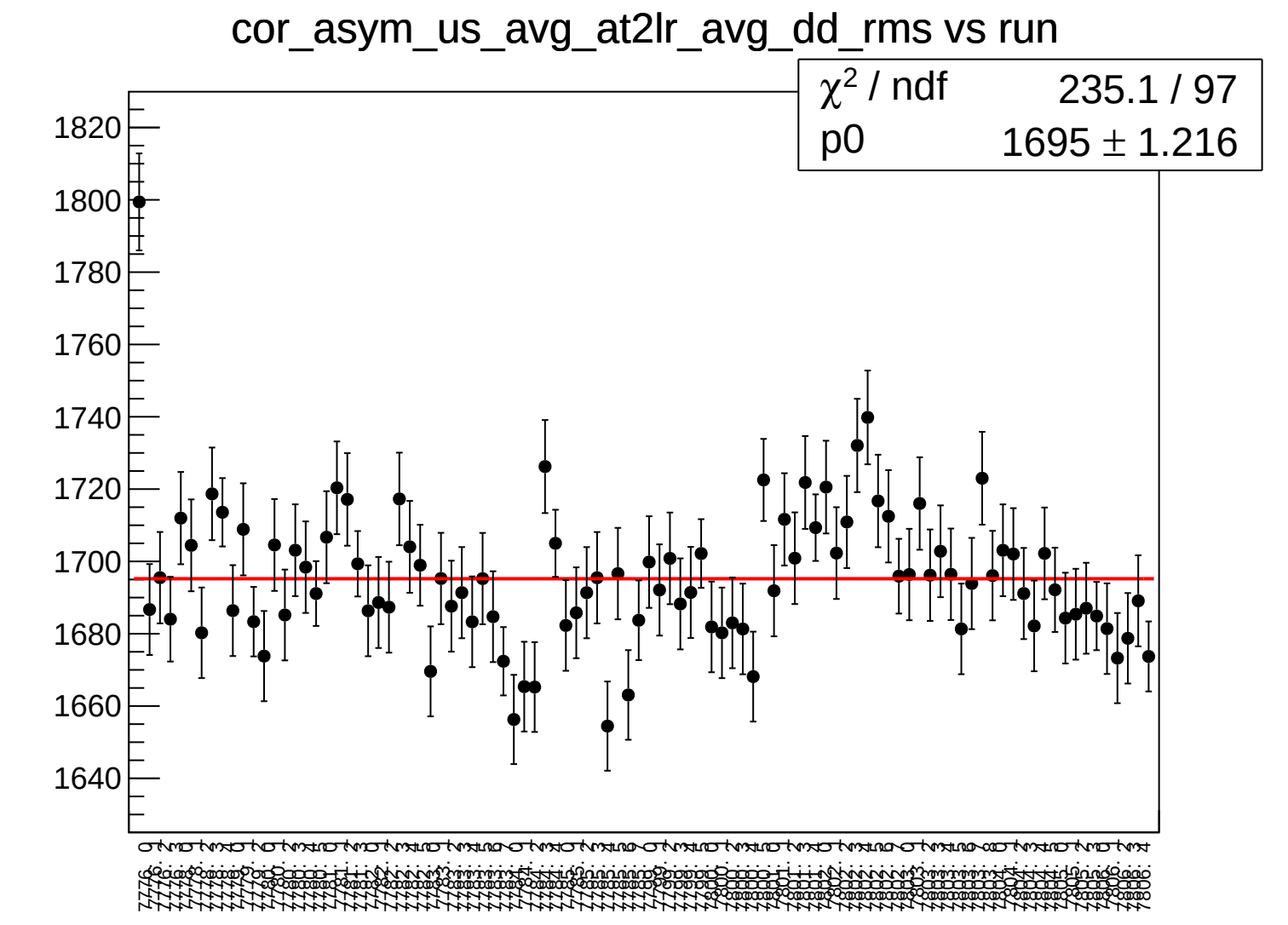

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.21 / 97
p0 −8106 ± 9385
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 507.7
Std Dev 0
3
2
1
0
−1
−2

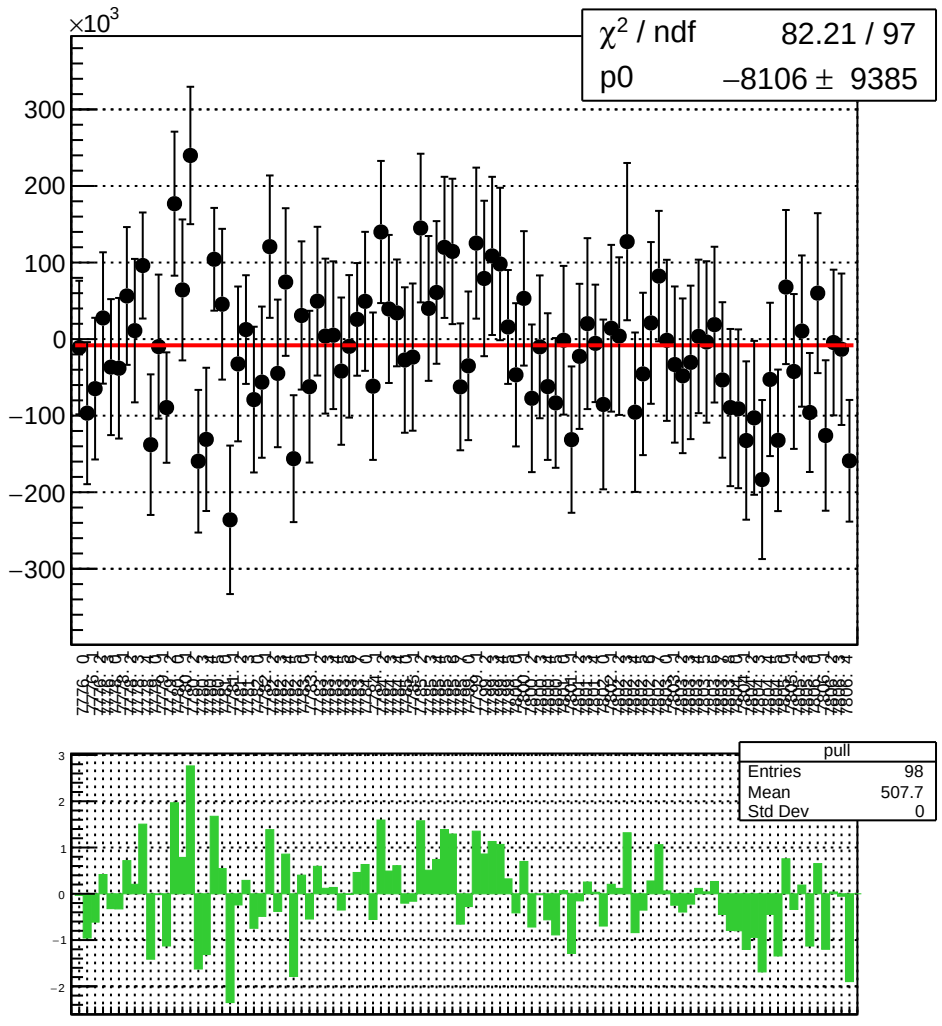

pull1D
Entries 98
Mean −0.01045
Std Dev 0.9158
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

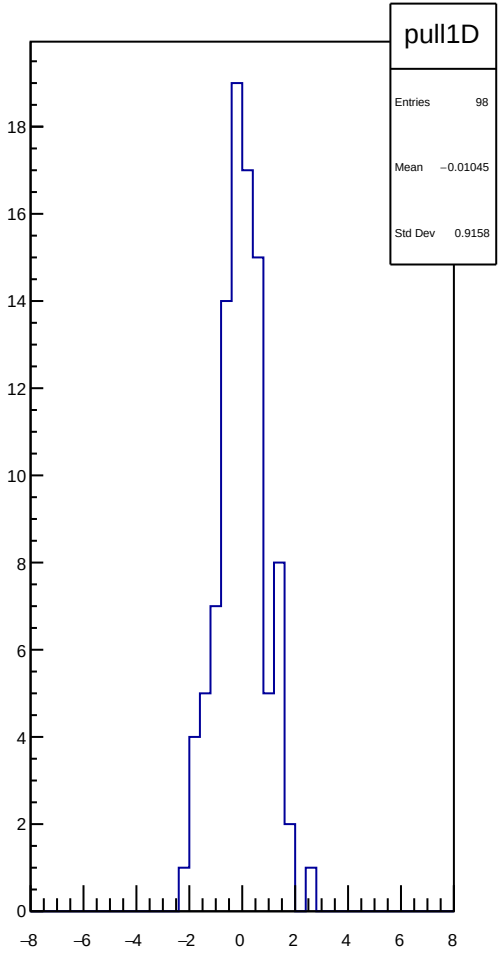

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 4782 / 97
p0 9238 ± 6.636
10500
10000
9500
9000
8500
8000

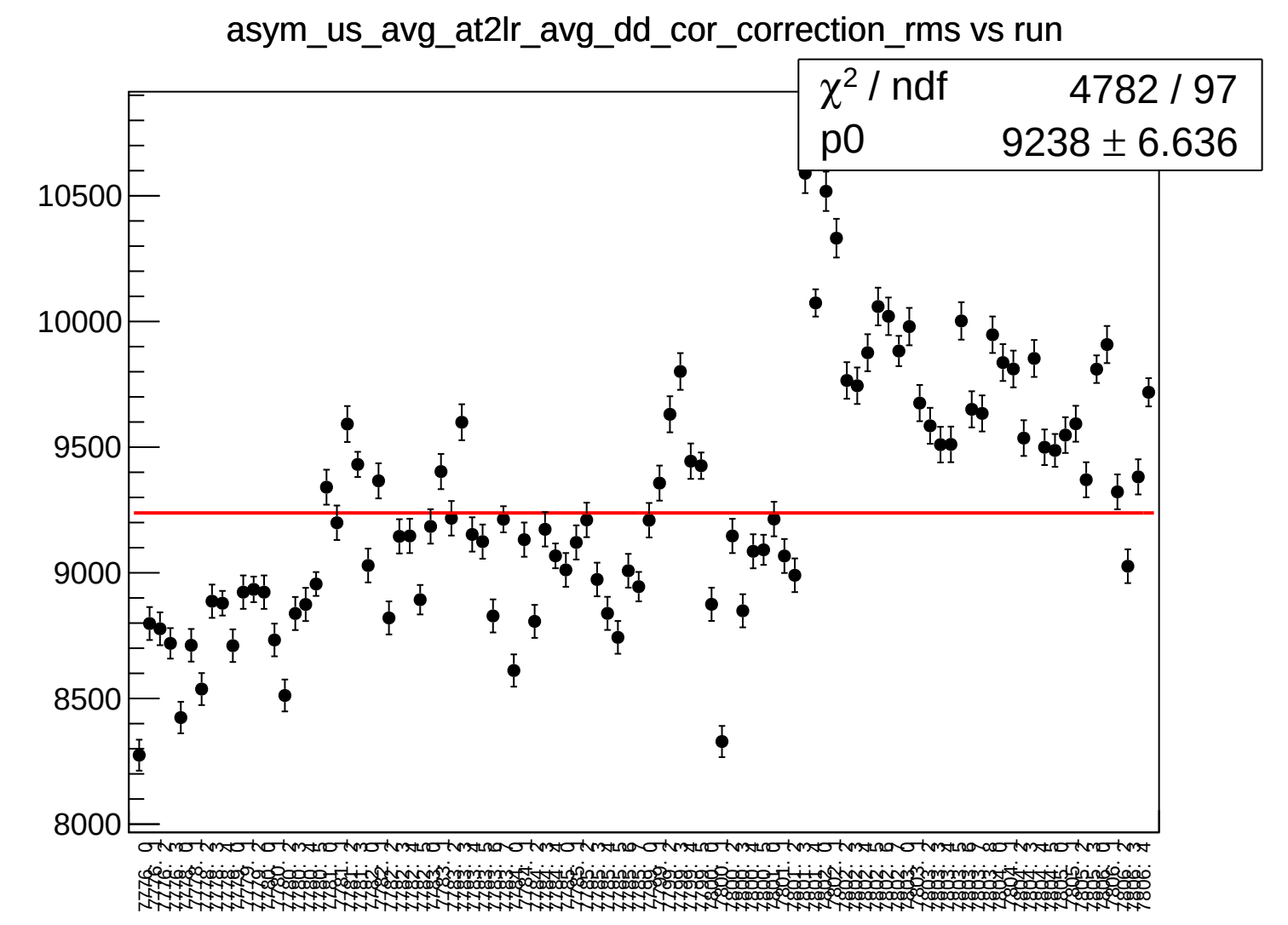

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 75.62 / 97
p0 −885 ± 1720
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −99.53
Std Dev 0
2
1
0
−1
−2

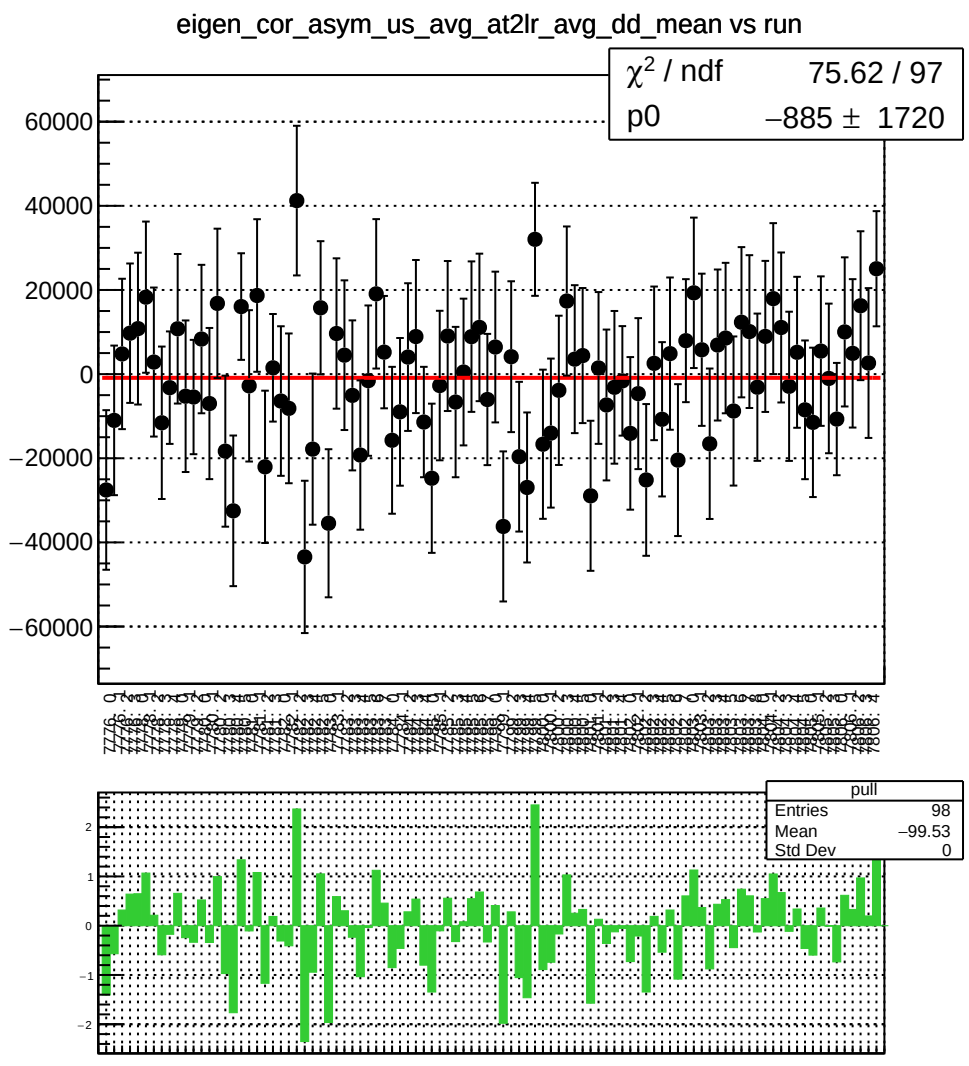

pull1D
Entries 98
Mean −0.01851
Std Dev 0.8782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

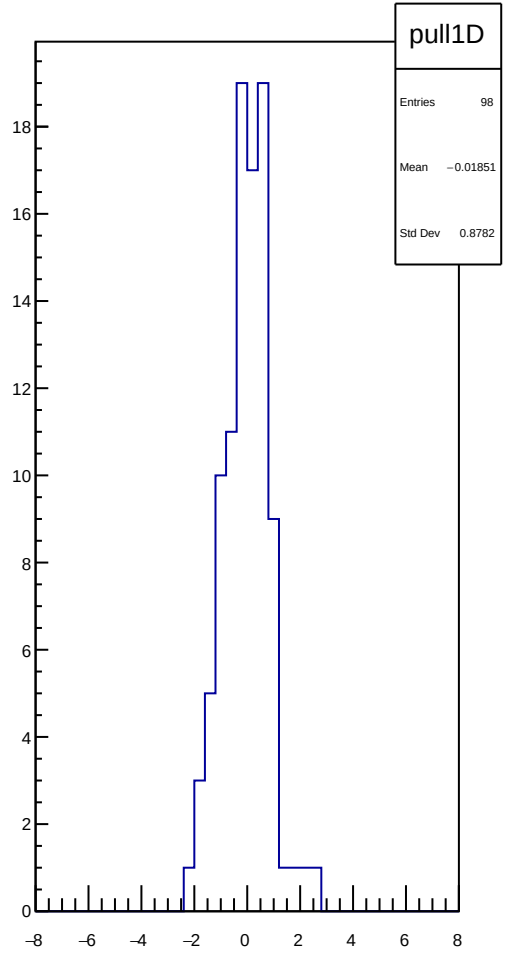

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 235.1 / 97
p0 1695 ± 1.216
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

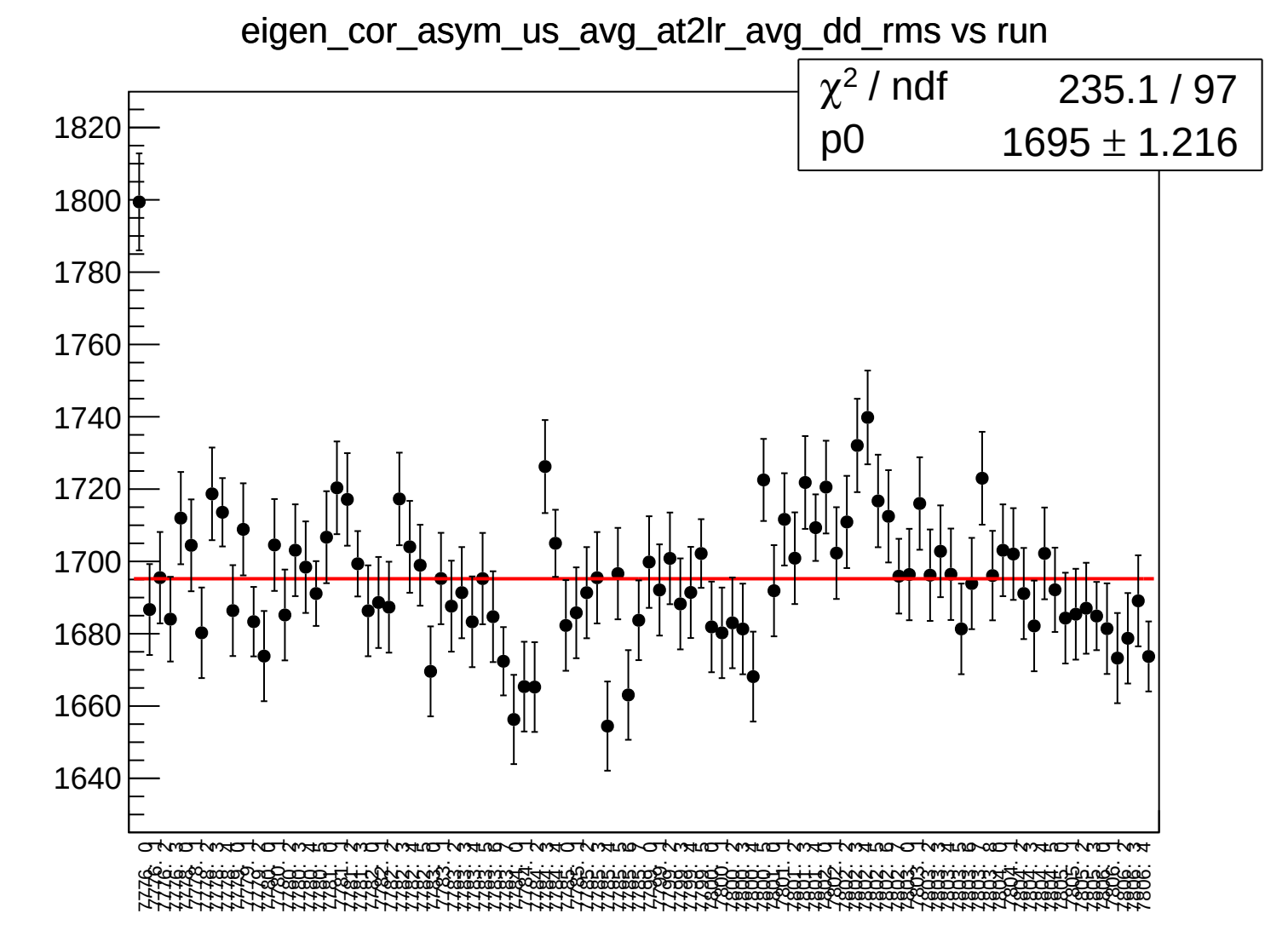

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.21 / 97
p0 −8106 ± 9385
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 507.7
Std Dev 0
3
2
1
0
−1
−2

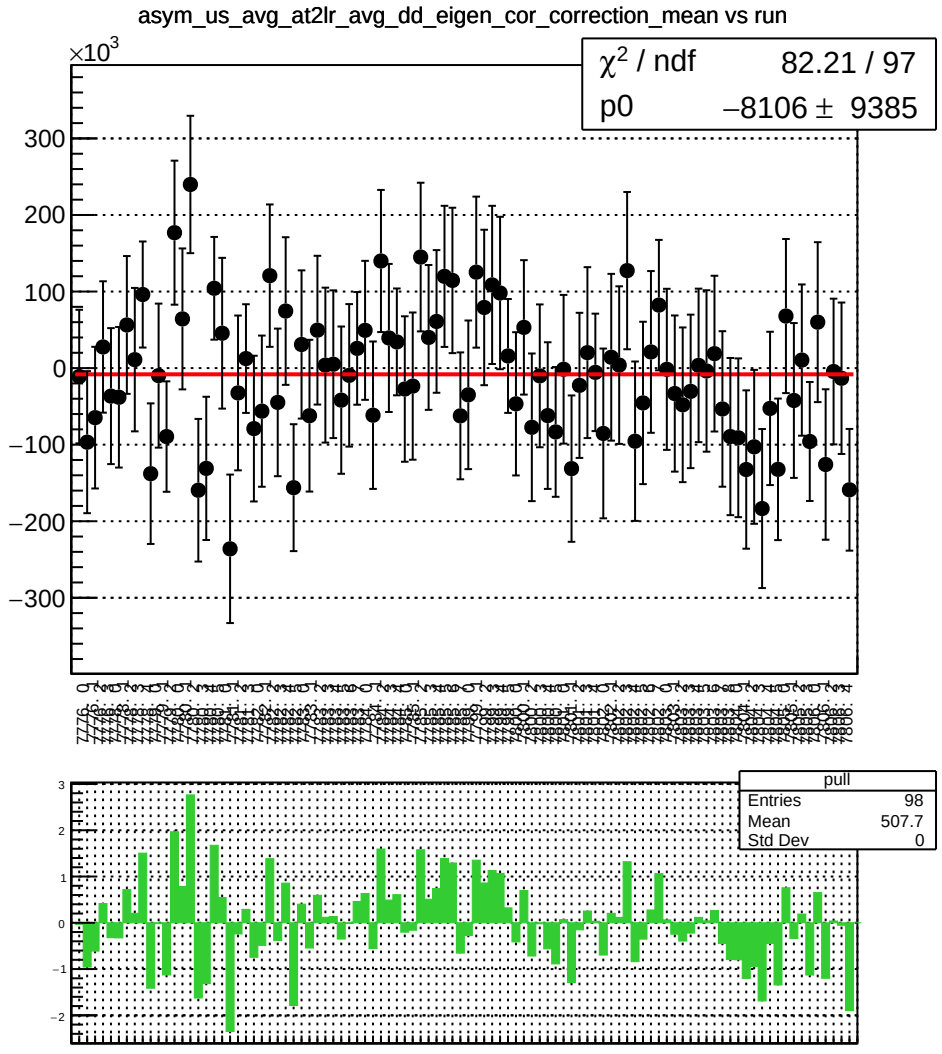

pull1D
Entries 98
Mean −0.01045
Std Dev 0.9158
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

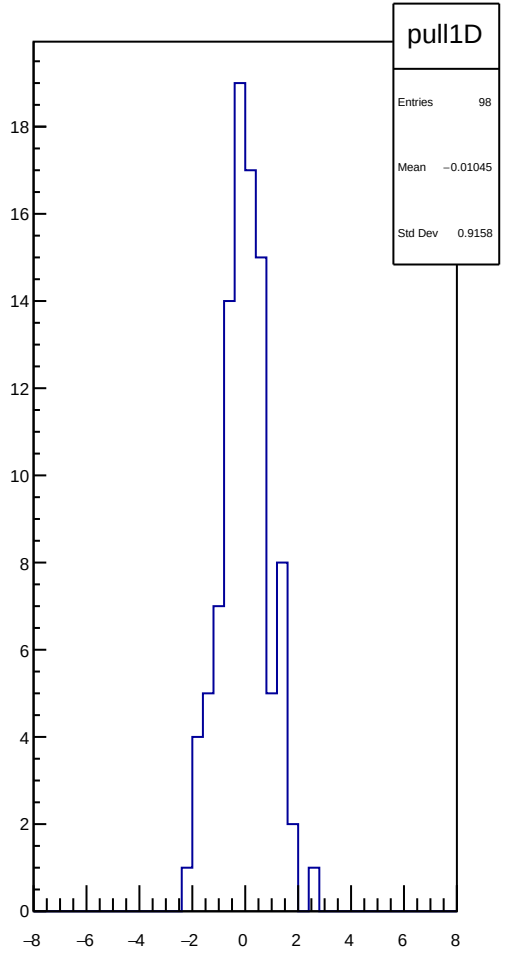

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 4782 / 97
p0 9238 ± 6.636
10500
10000
9500
9000
8500
8000

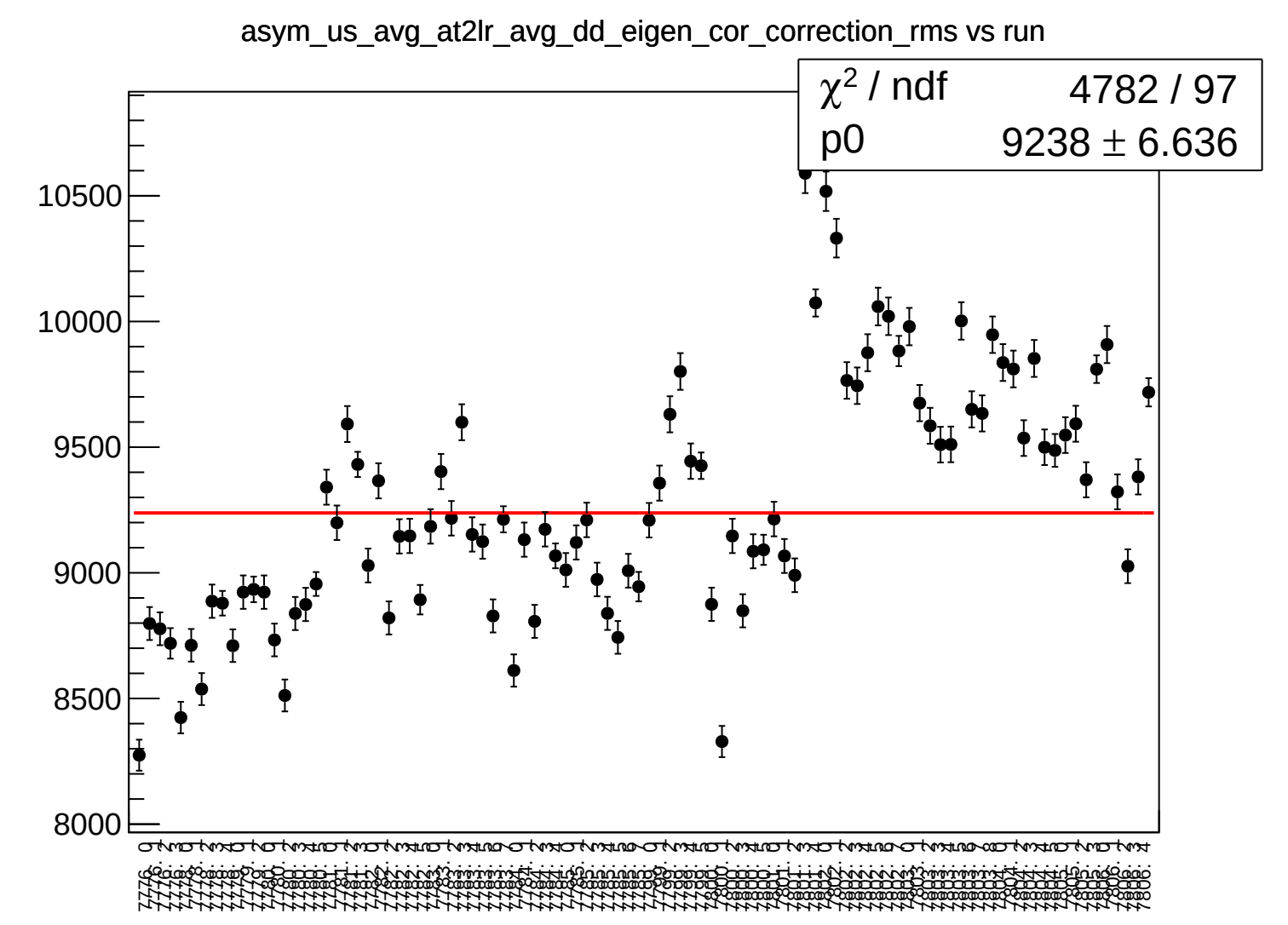

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 75.62 / 97
p0 −885 ± 1720
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −99.53
Std Dev 0
2
1
0
−1
−2

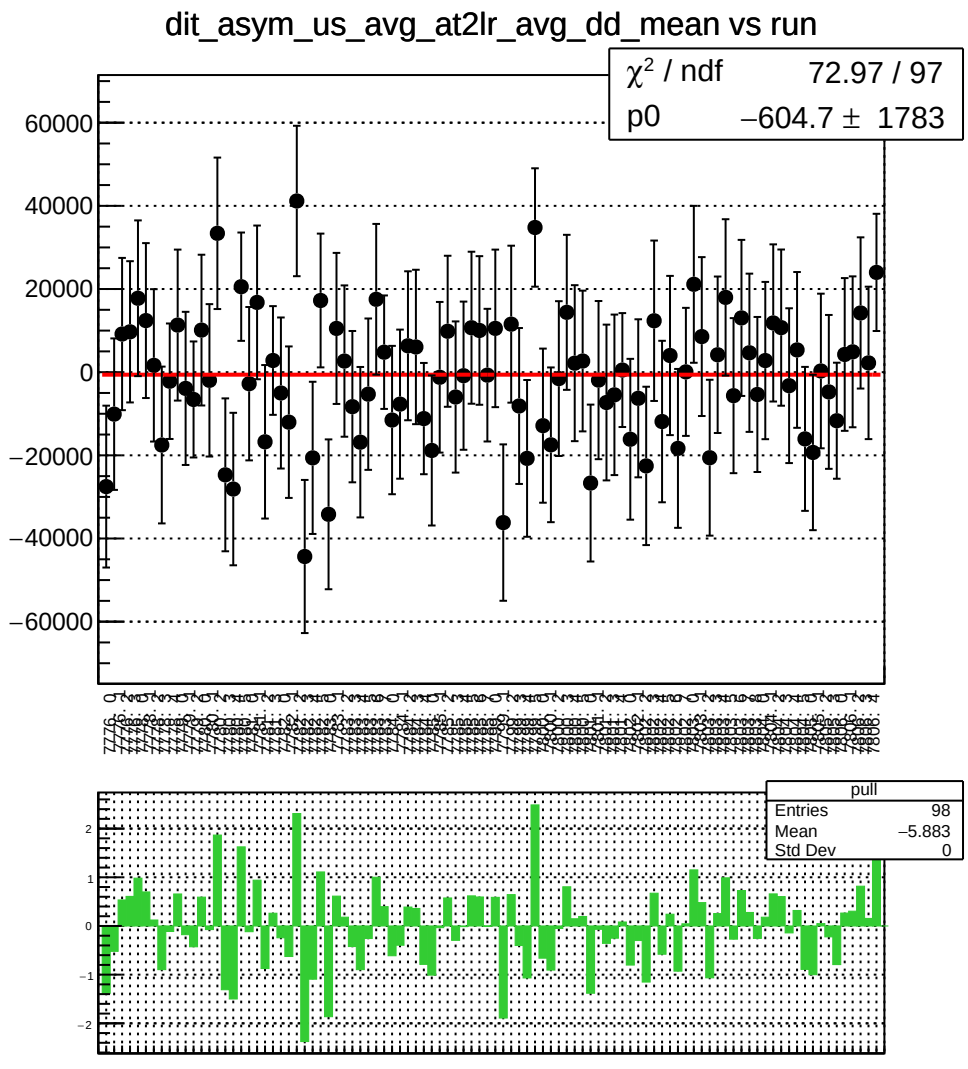

pull1D
Entries 98
Mean −0.01851
Std Dev 0.8782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

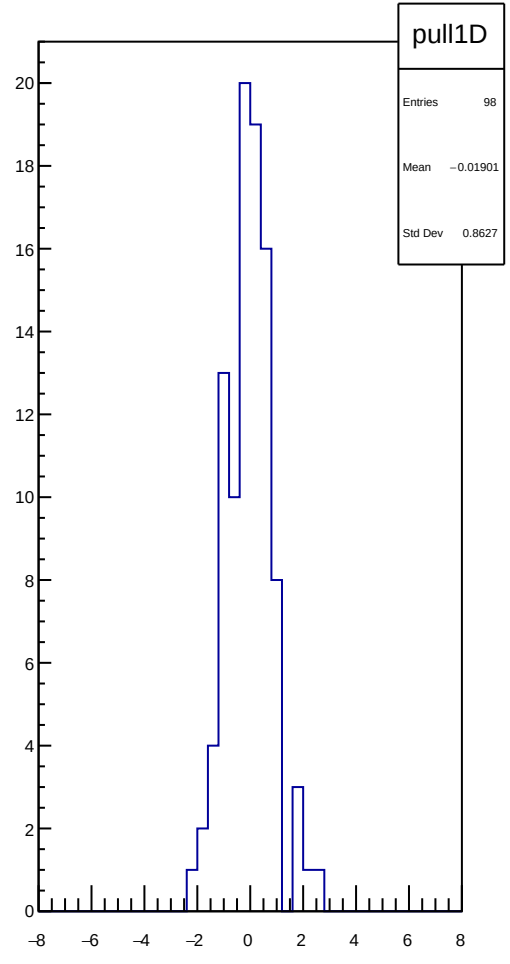

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 235.1 / 97
p0 1695 ± 1.216
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

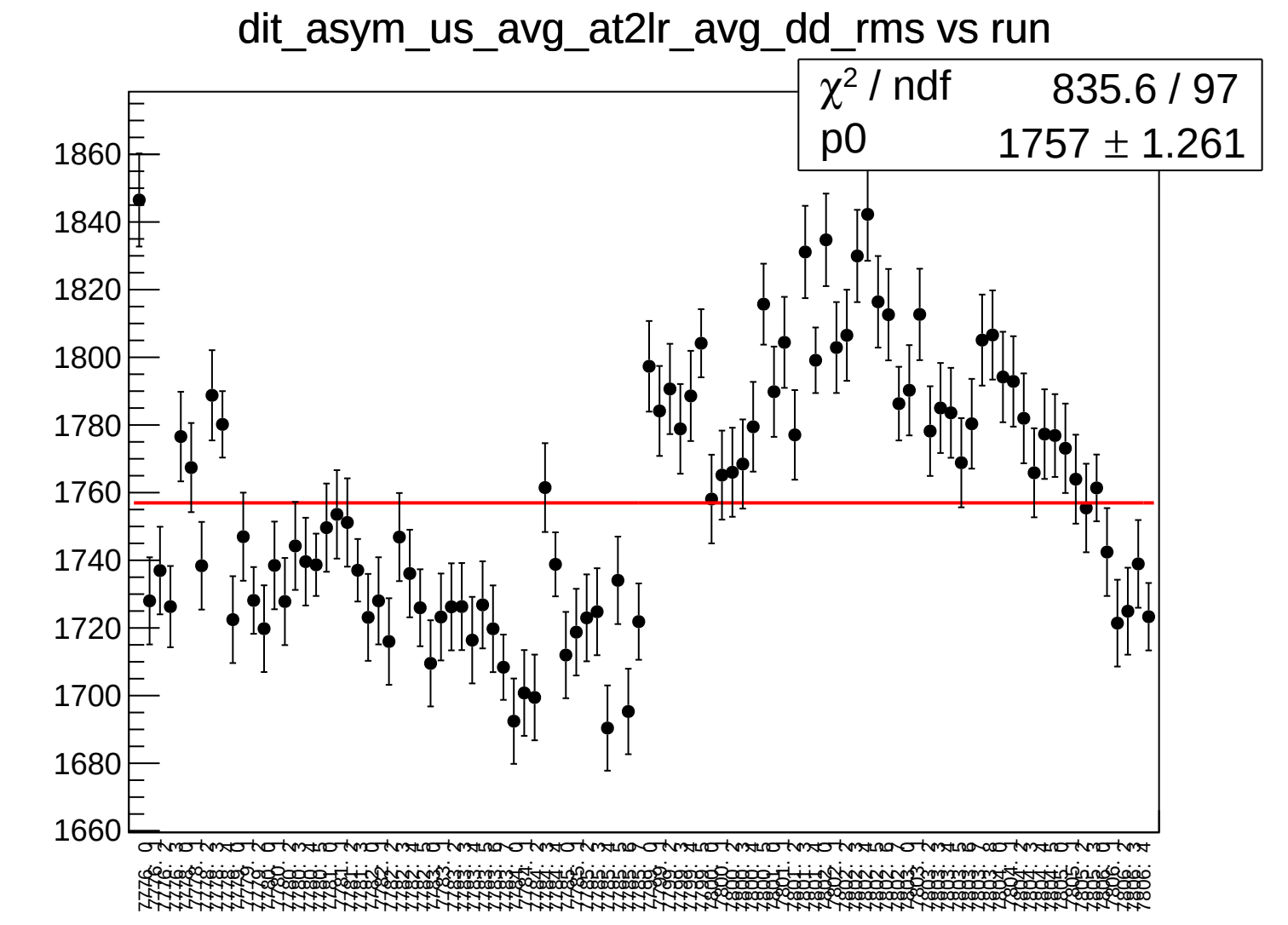

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.21 / 97
p0 −8106 ± 9385
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 507.7
Std Dev 0
3
2
1
0
−1
−2

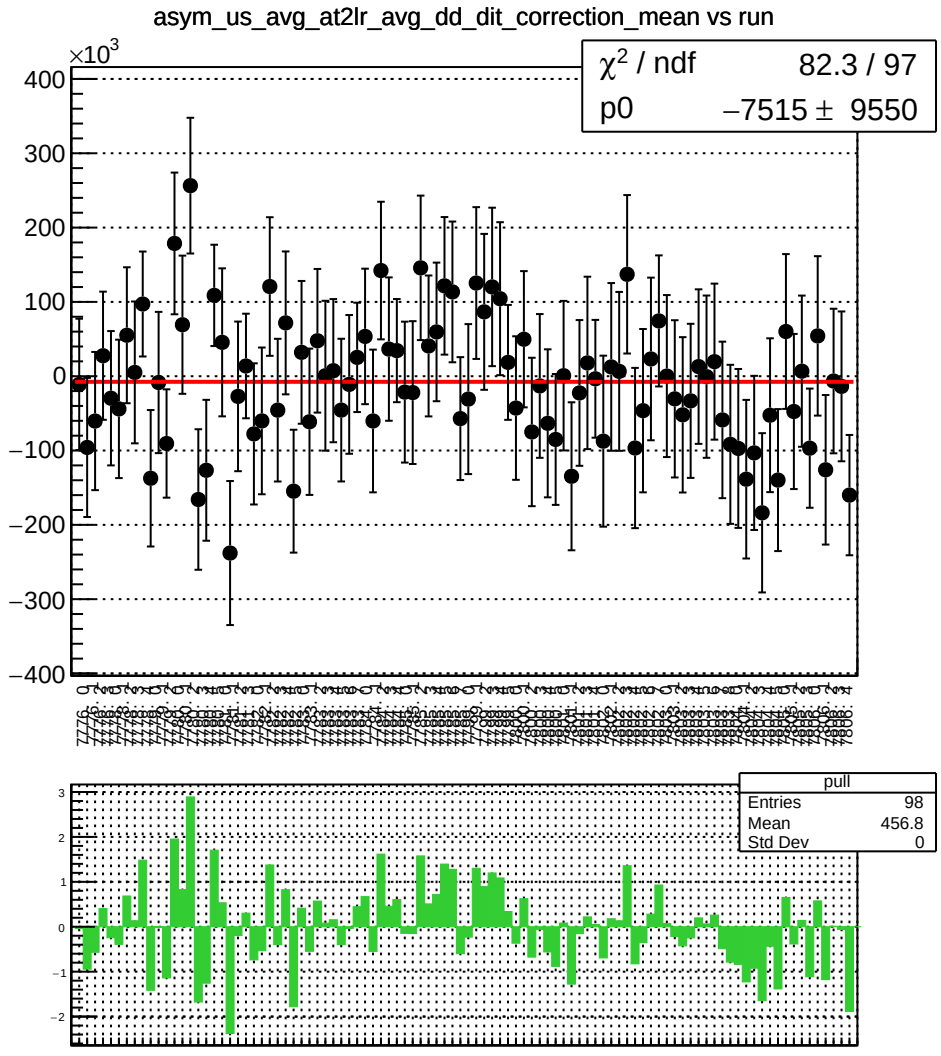

pull1D
Entries 98
Mean −0.01045
Std Dev 0.9158
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

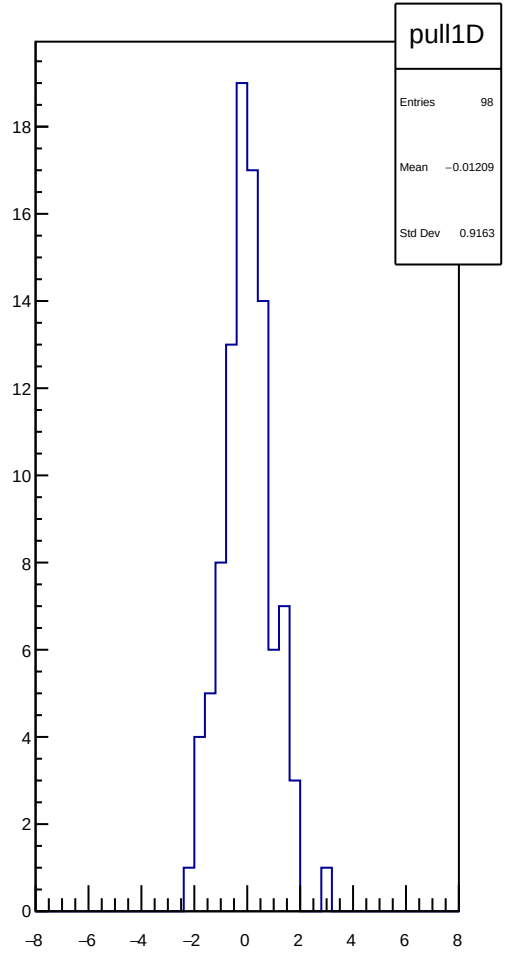

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4782 / 97
p0 9238 ± 6.636
10500
10000
9500
9000
8500
8000

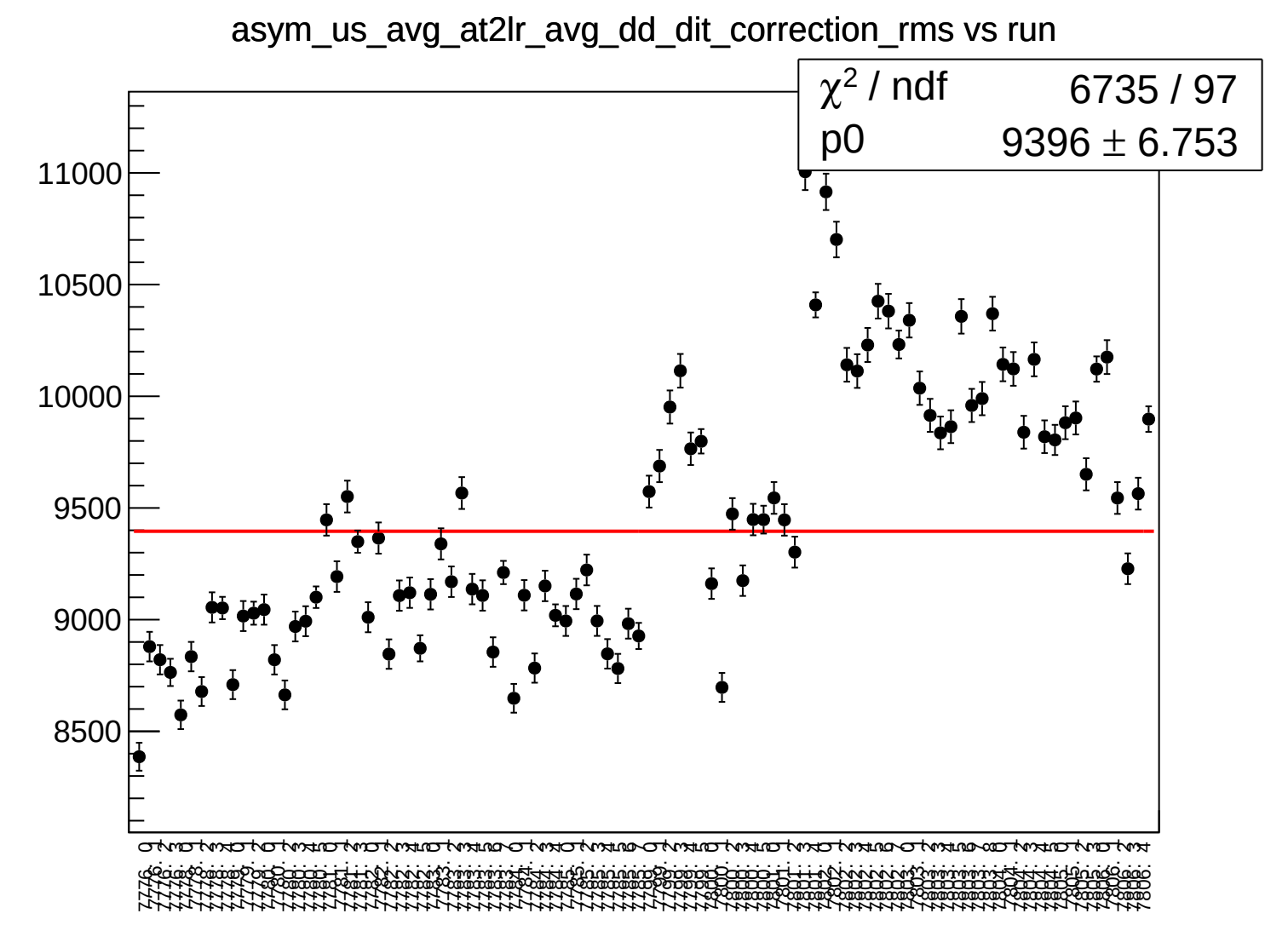

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 72.97 / 97
p0 −604.7 ± 1783
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −5.883
Std Dev 0
2
1
0
−1
−2

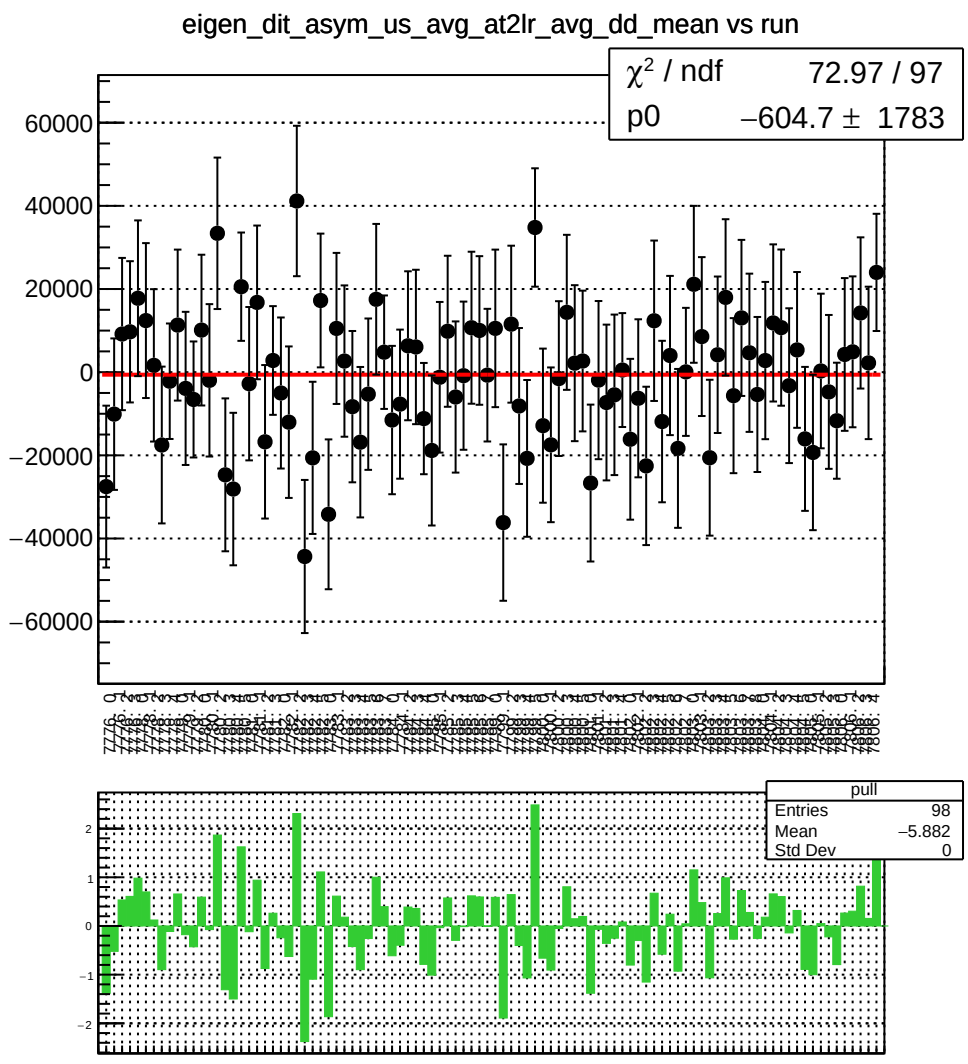

pull1D
Entries 98
Mean −0.01901
Std Dev 0.8627
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

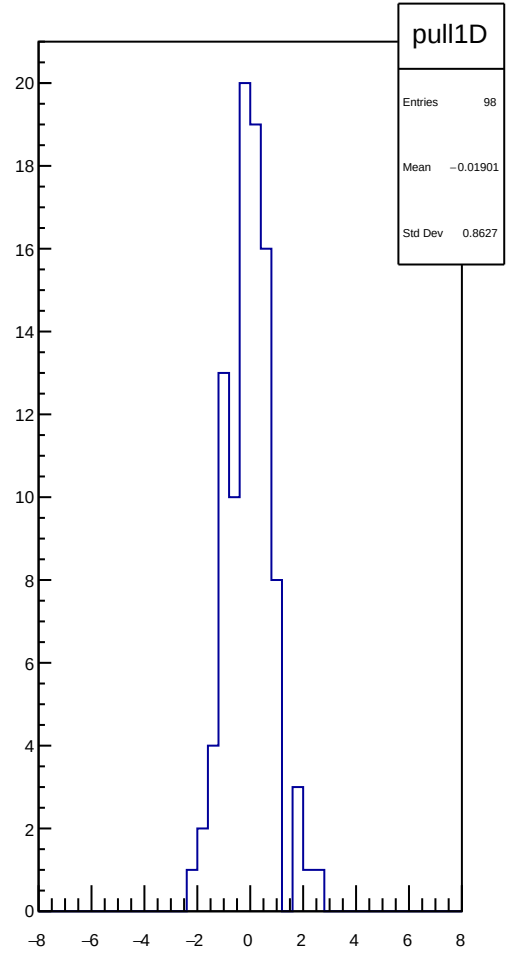

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 835.6 / 97
p0 1757 ± 1.261
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

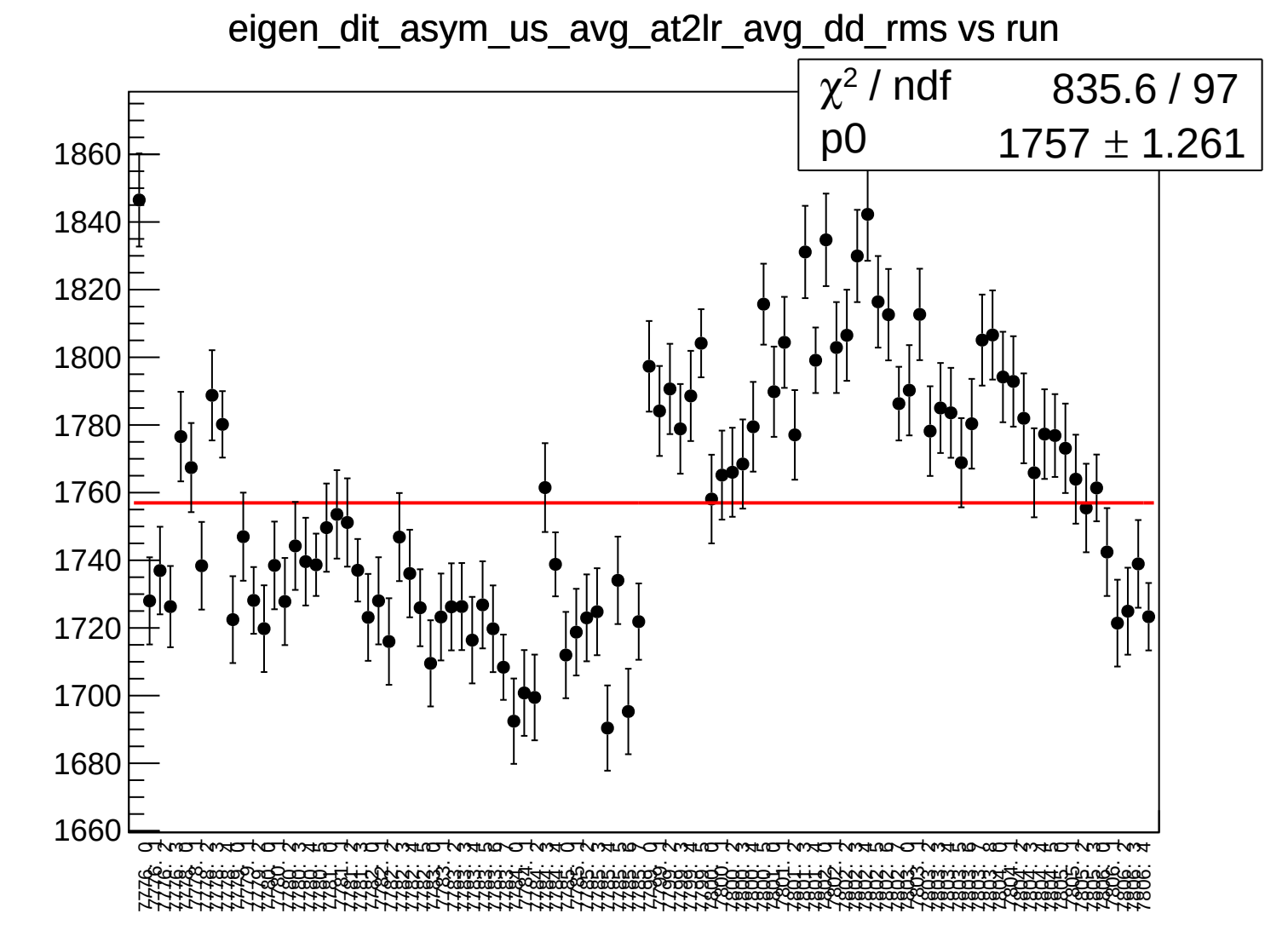

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.3 / 97
p0 −7515 ± 9550
pull
Entries 98
Mean 456.8
Std Dev 0

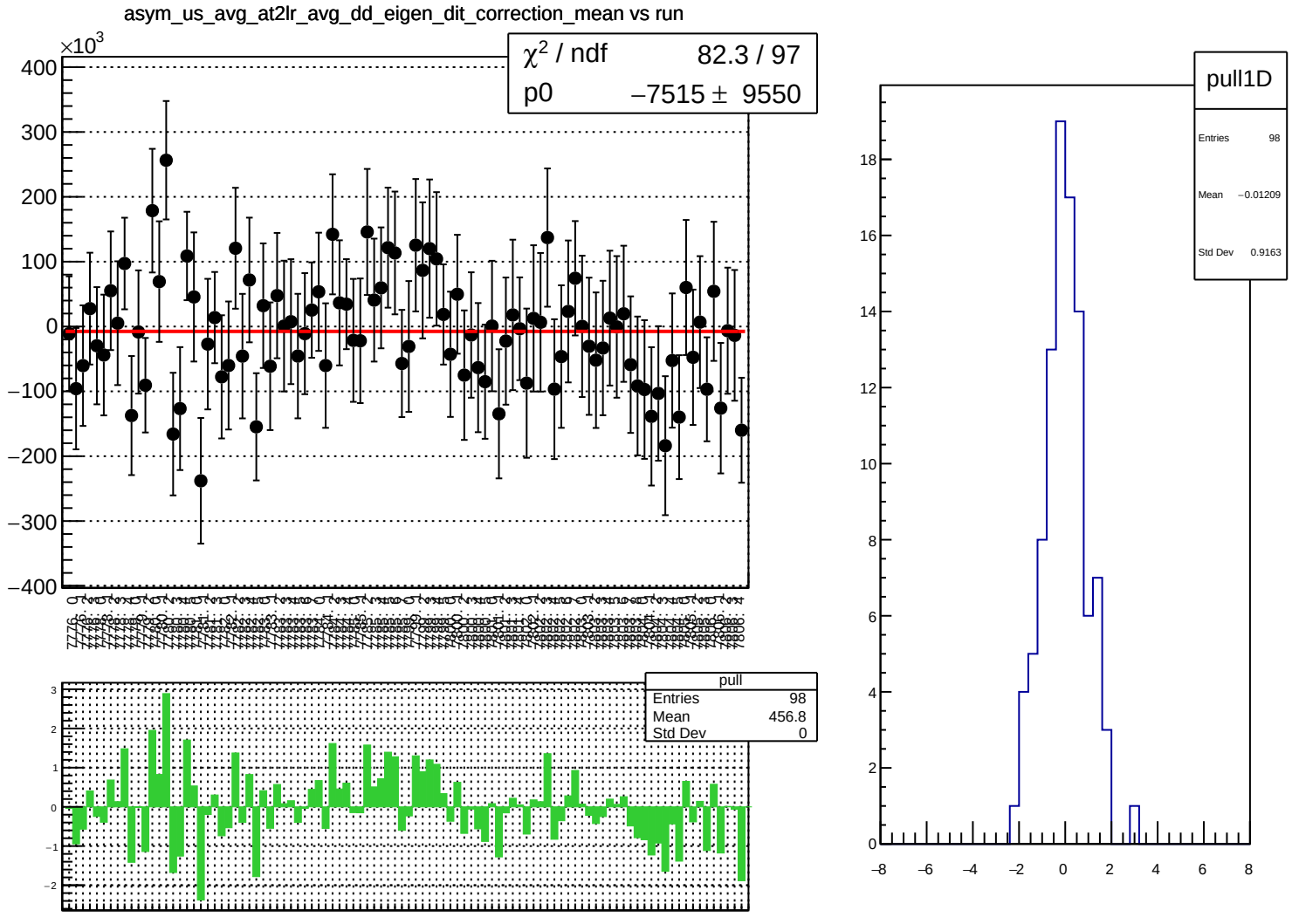

pull1D
Entries 98
Mean −0.01209
Std Dev 0.9163

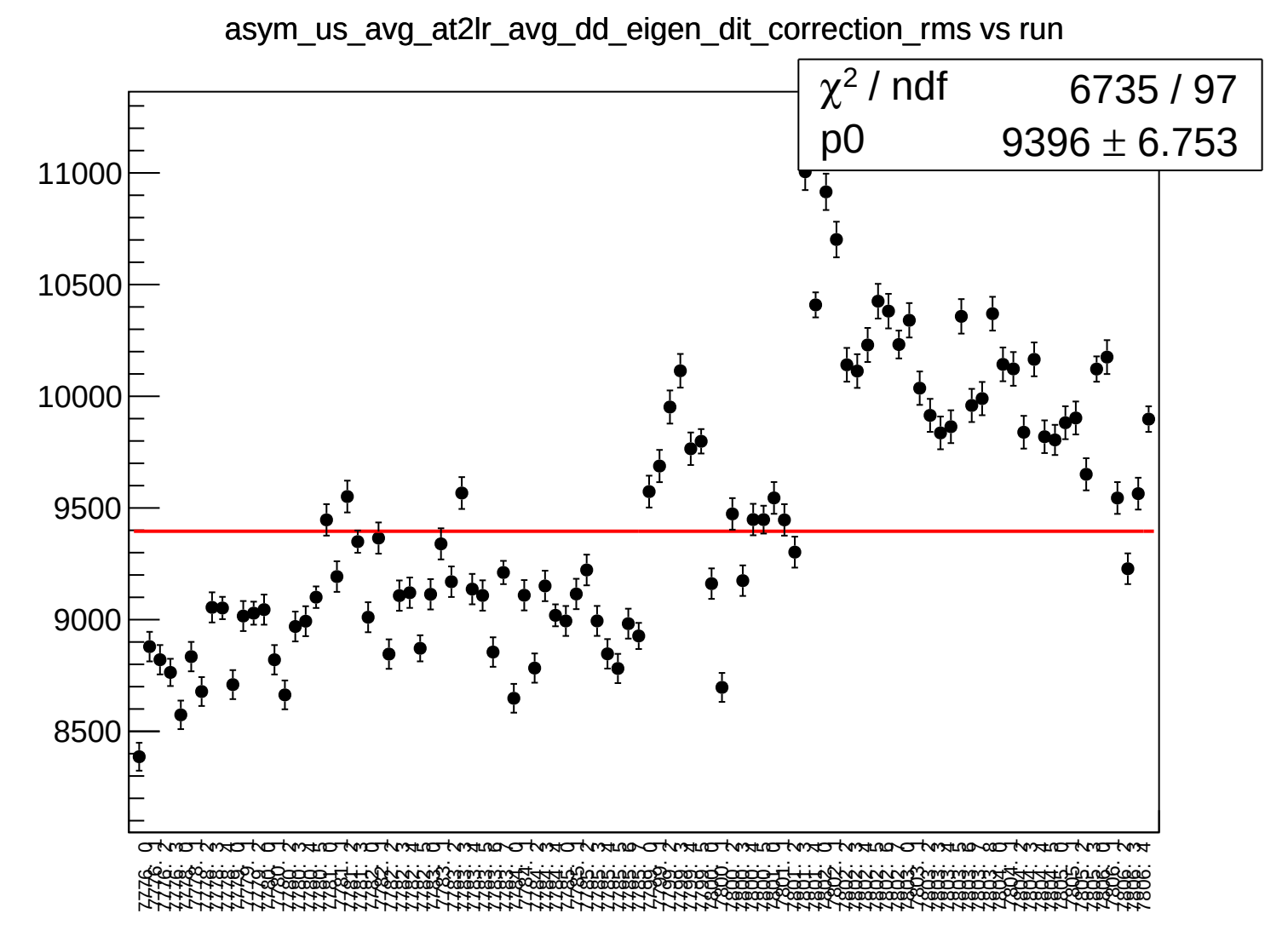

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6735 / 97
p0 9396 ± 6.753
11000
10500
10000
9500
9000
8500

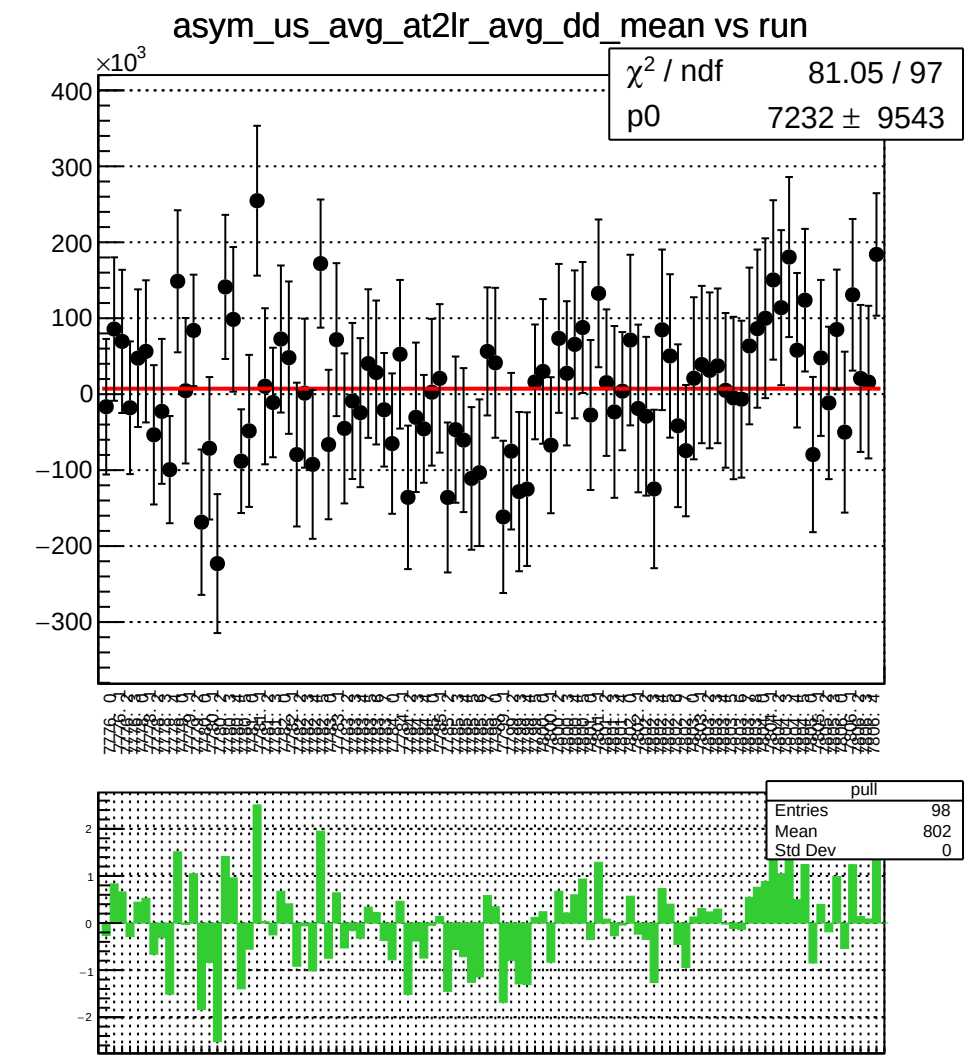

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 72.97 / 97
p0 −604.7 ± 1783
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −5.882
Std Dev 0
2
1
0
−1
−2

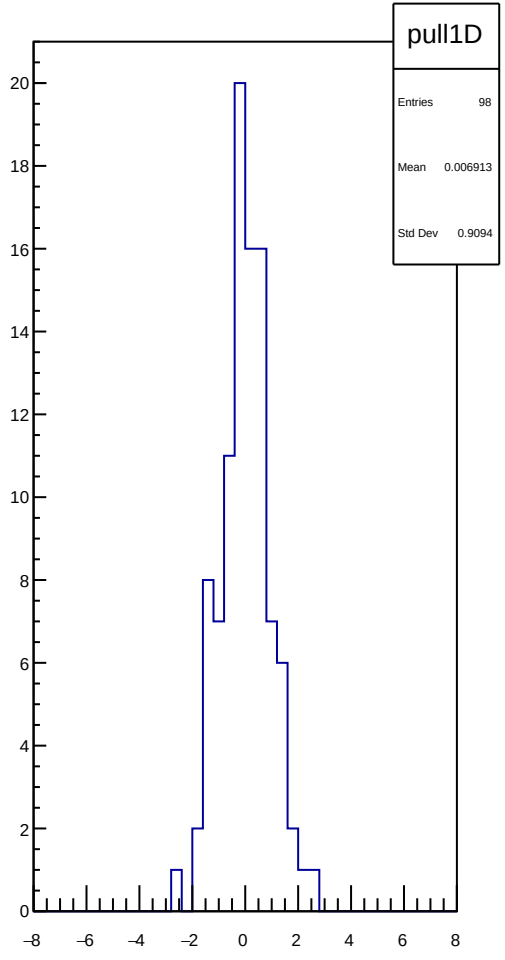

pull1D
Entries 98
Mean −0.01901
Std Dev 0.8627
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

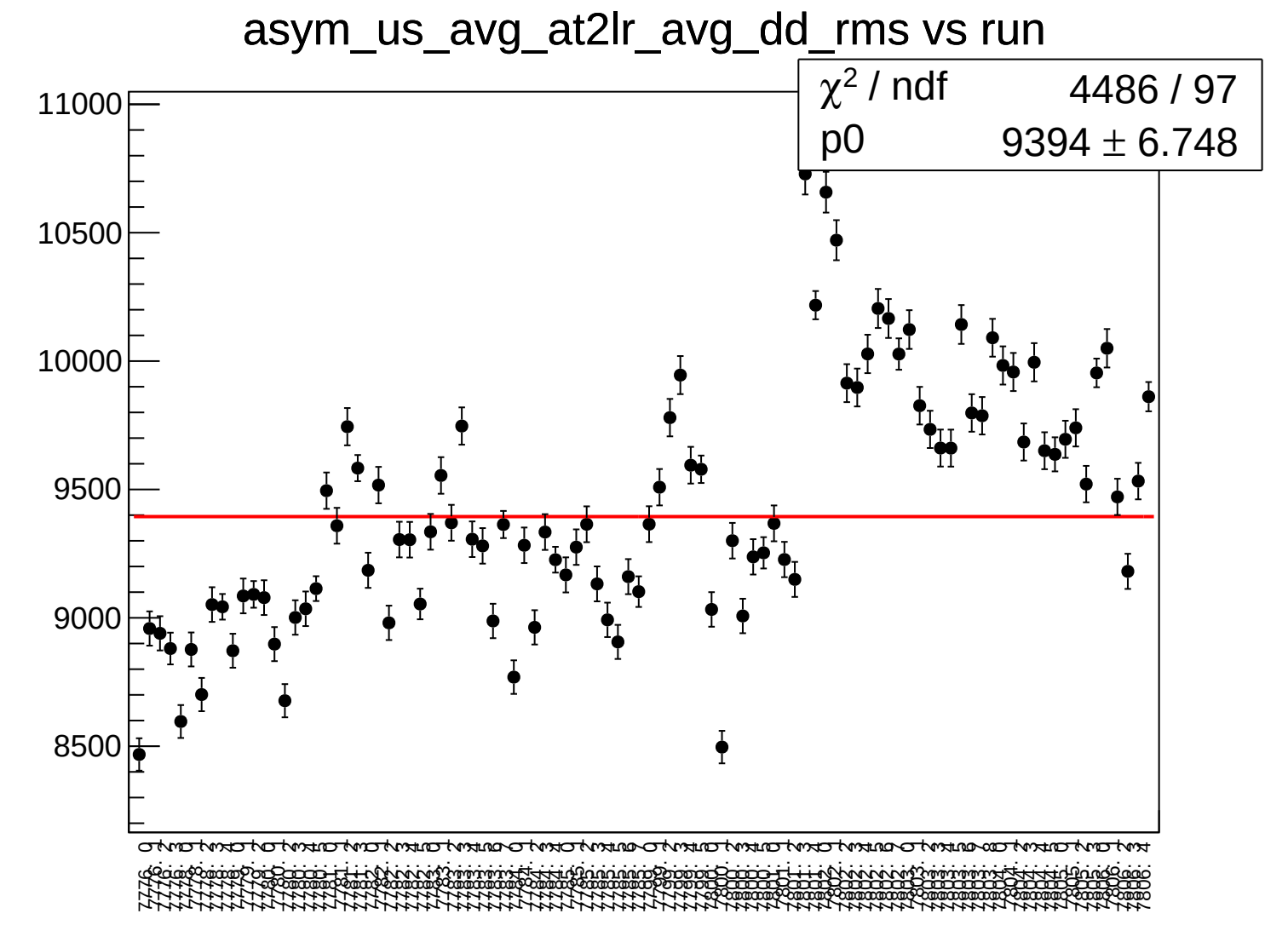

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 835.6 / 97
p0 1757 ± 1.261
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

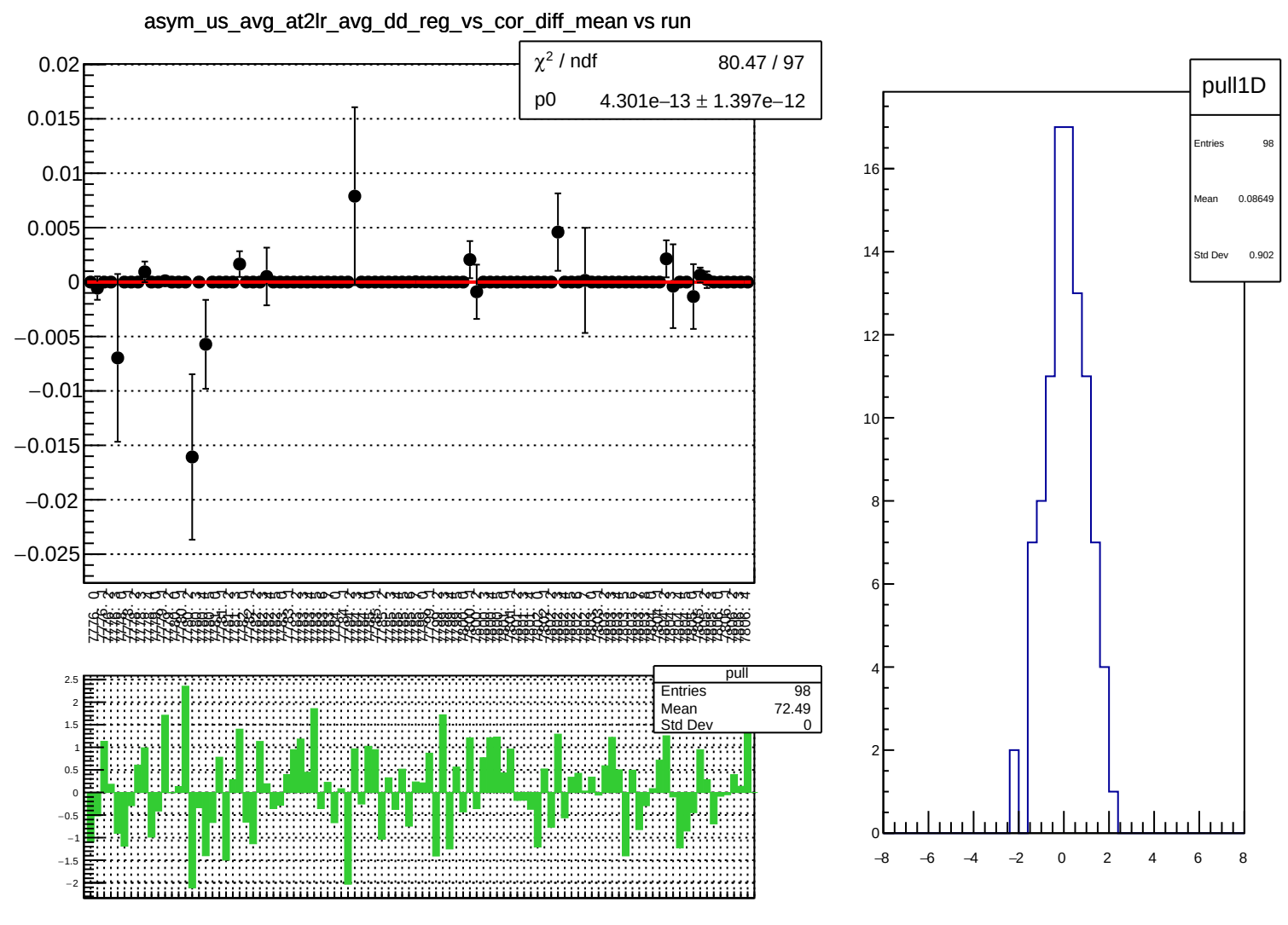

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.3 / 97
p0 −7515 ± 9550
pull
Entries 98
Mean 456.8
Std Dev 0
pull1D
Entries 98
Mean −0.01209
Std Dev 0.9163

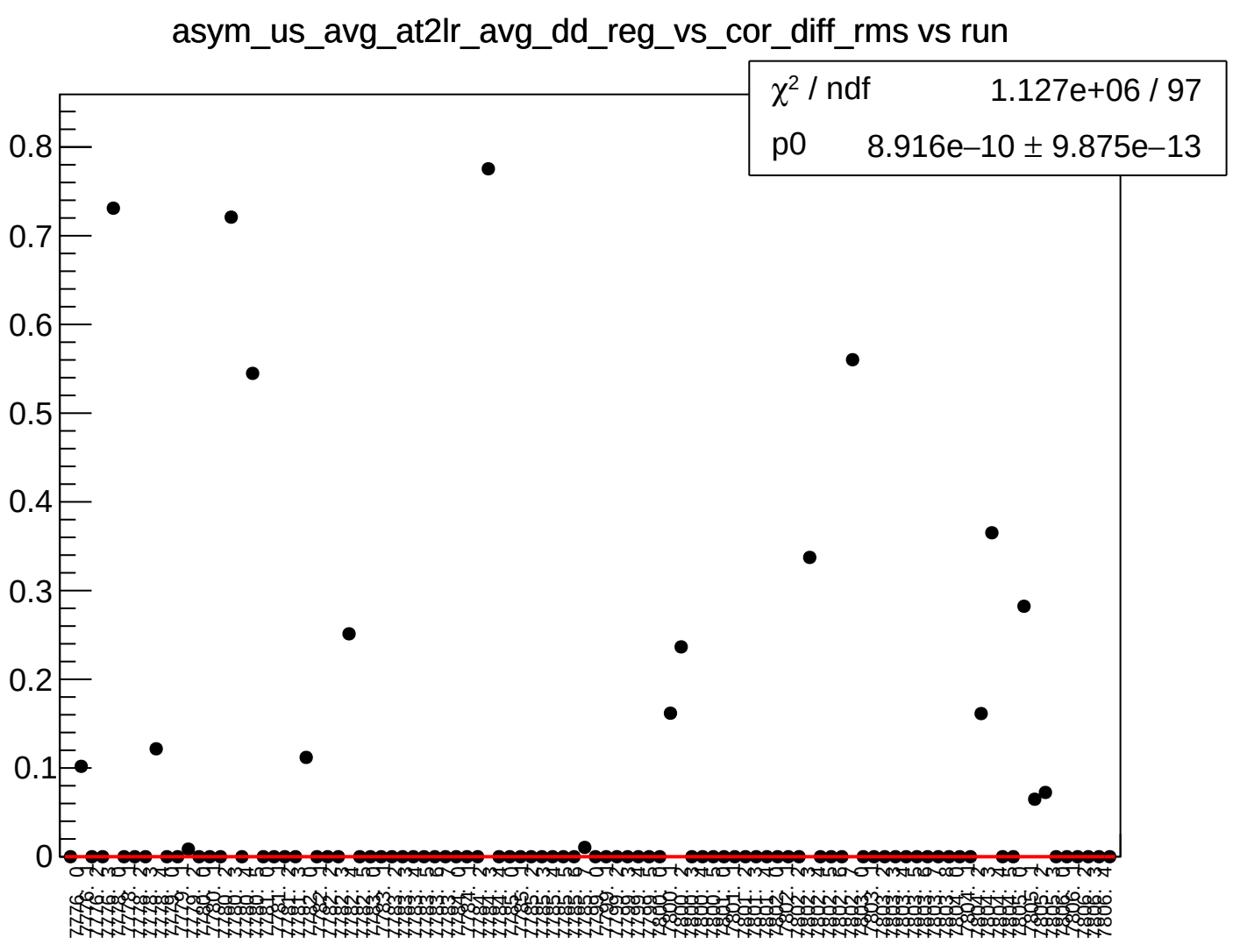

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6735 / 97
p0 9396 ± 6.753
11000
10500
10000
9500
9000
8500

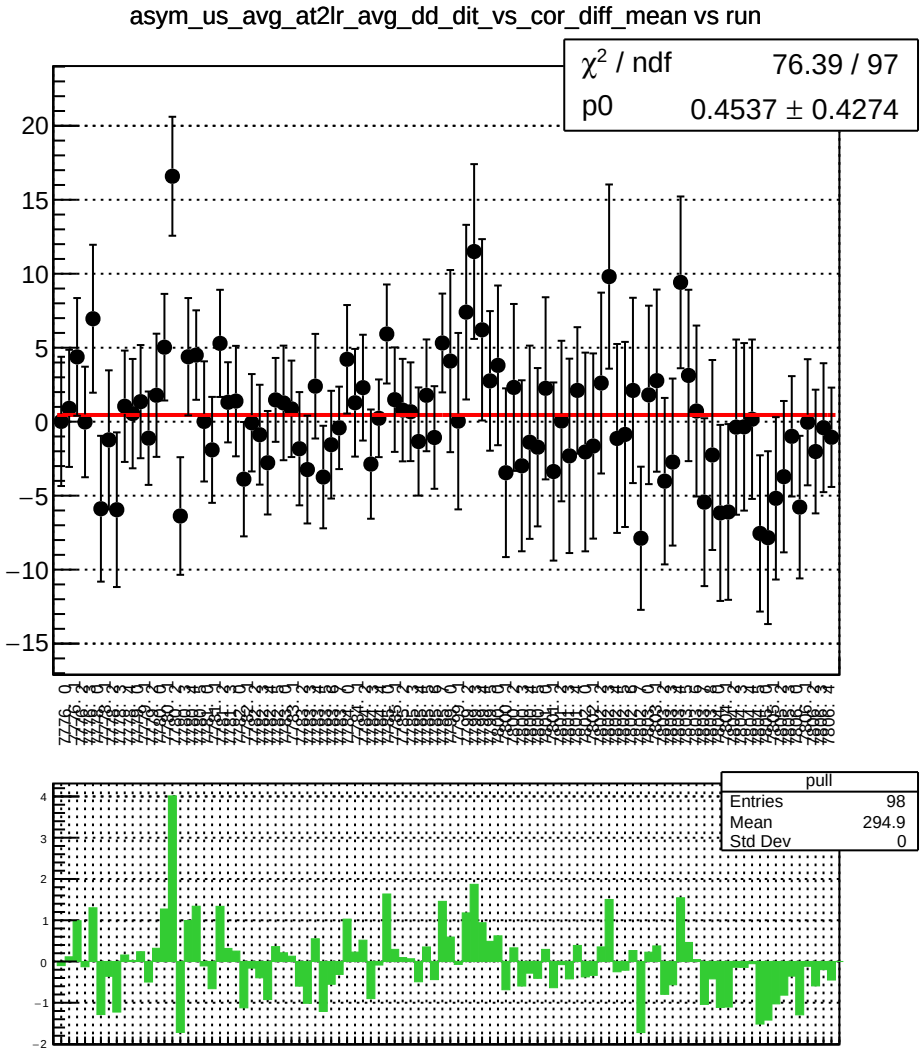

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 81.05 / 97
p0 7232 ± 9543
pull
Entries 98
Mean 802
Std Dev 0

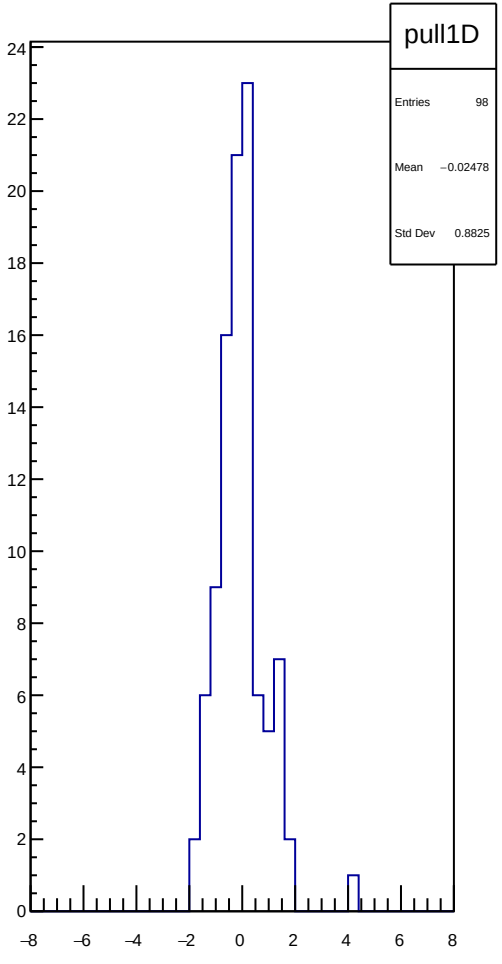

pull1D
Entries 98
Mean 0.006913
Std Dev 0.9094

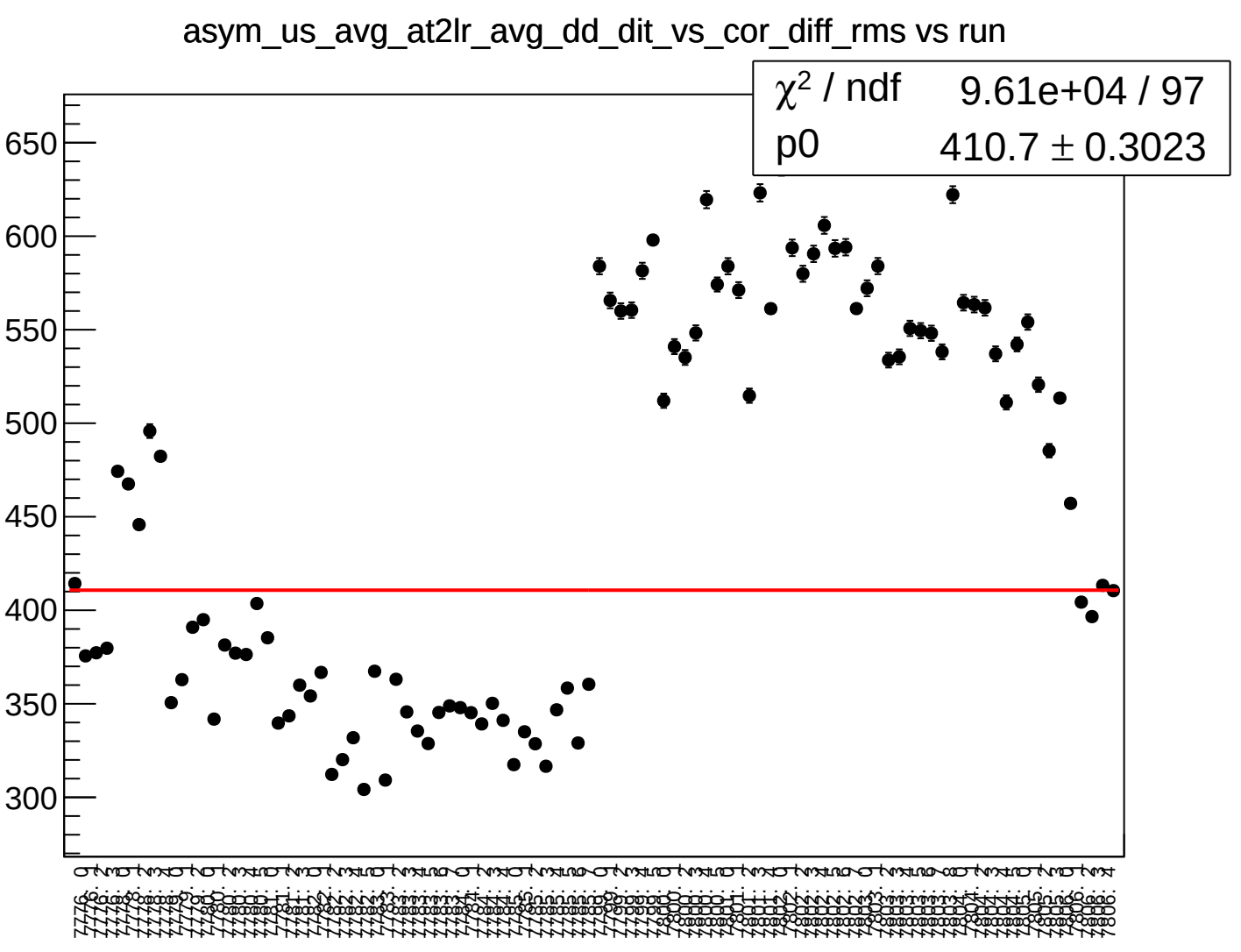

asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 4486 / 97
p0 9394 ± 6.748
11000
10500
10000
9500
9000
8500

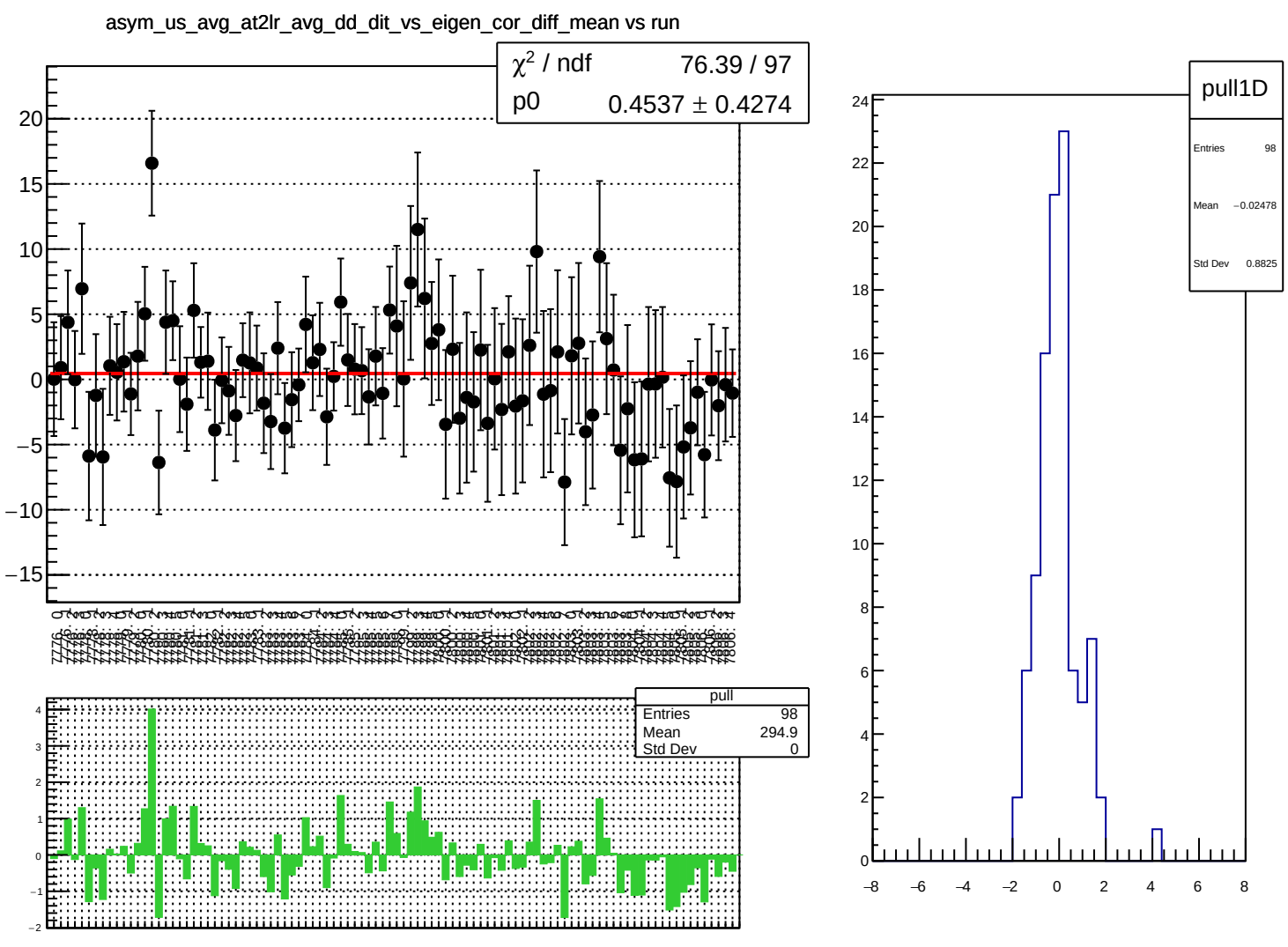

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.47 / 97
p0 4.301e−13 ± 1.397e−12
pull
Entries 98
Mean 72.49
Std Dev 0
pull1D
Entries 98
Mean 0.08649
Std Dev 0.902

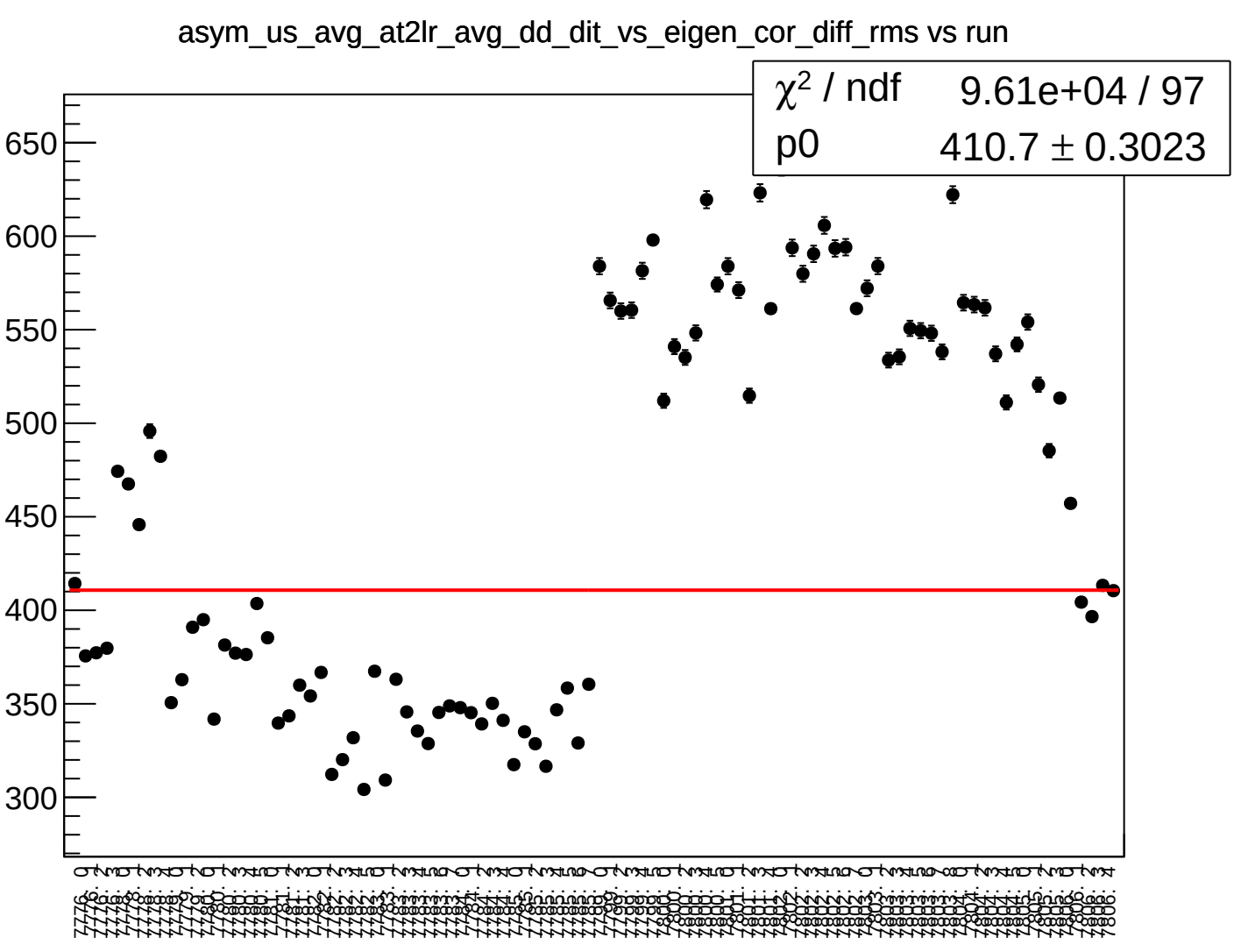

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.127e+06 / 97
p0 8.916e−10 ± 9.875e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

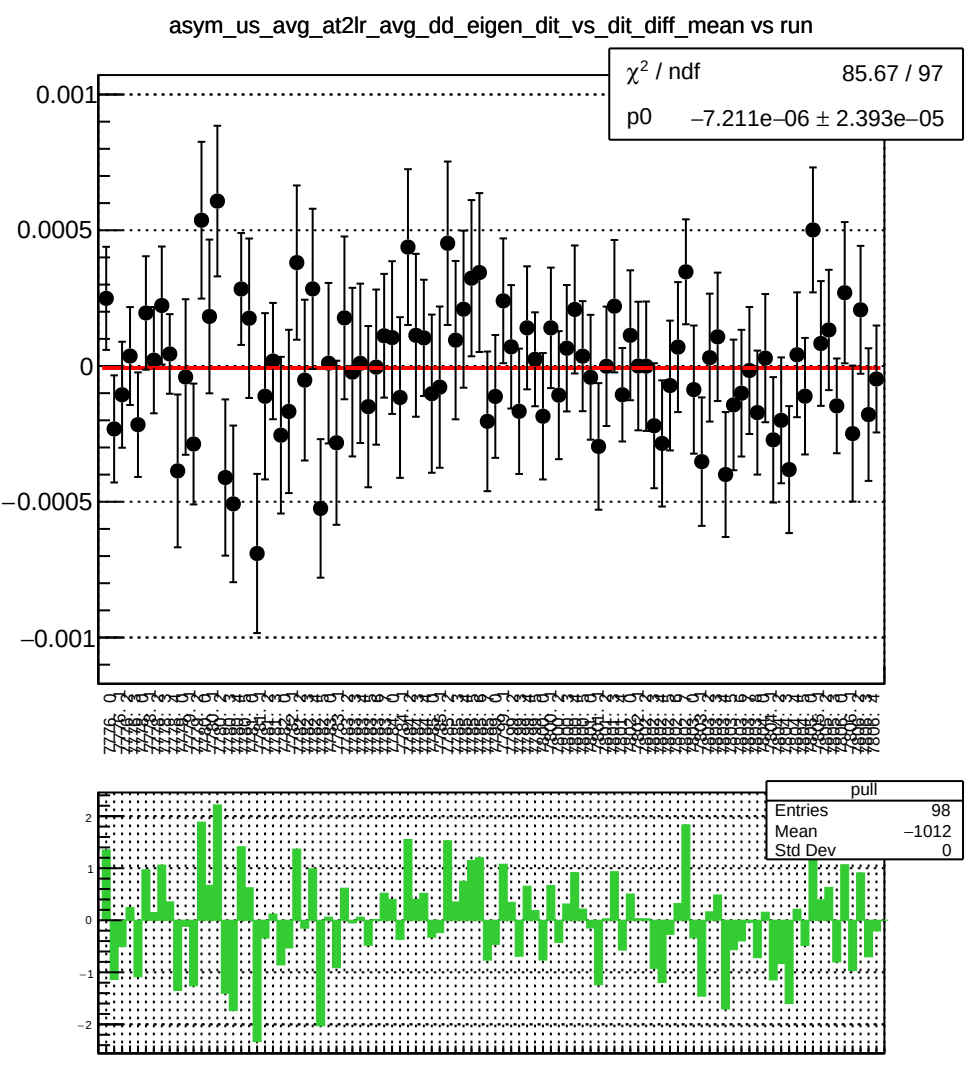

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.39 / 97
p0 0.4537 ± 0.4274
pull
Entries 98
Mean 294.9
Std Dev 0

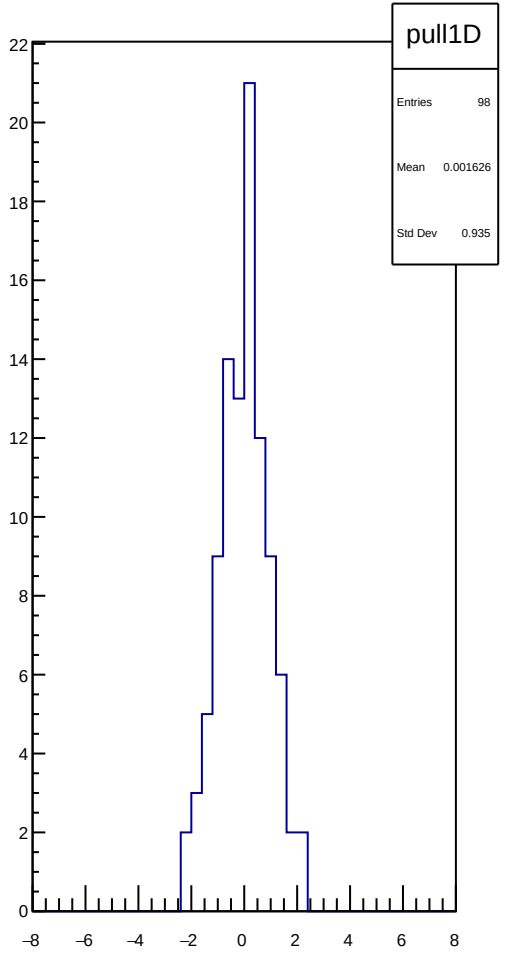

pull1D
Entries 98
Mean −0.02478
Std Dev 0.8825

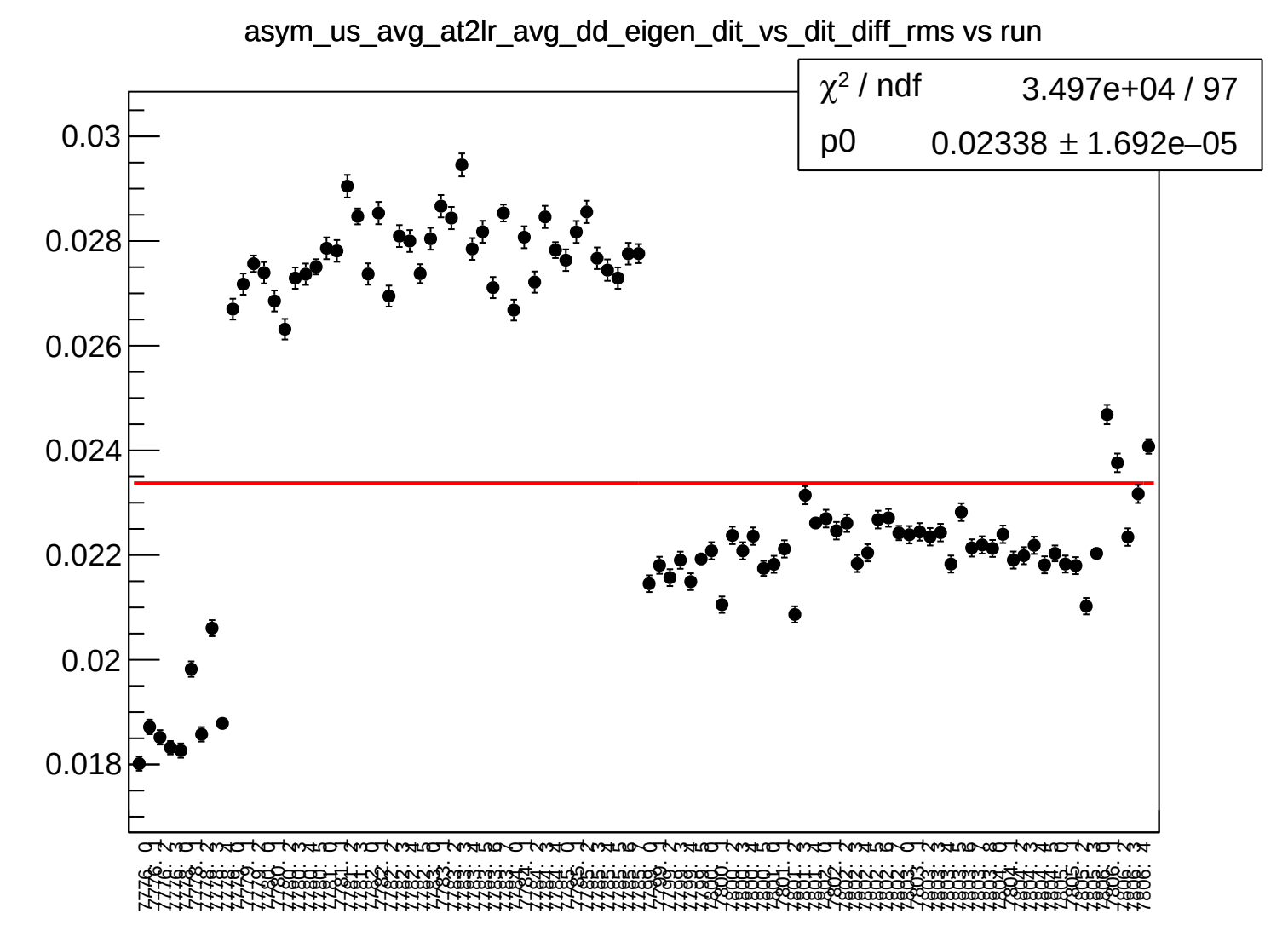

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.61e+04 / 97
p0 410.7 ± 0.3023
650
600
550
500
450
400
350
300

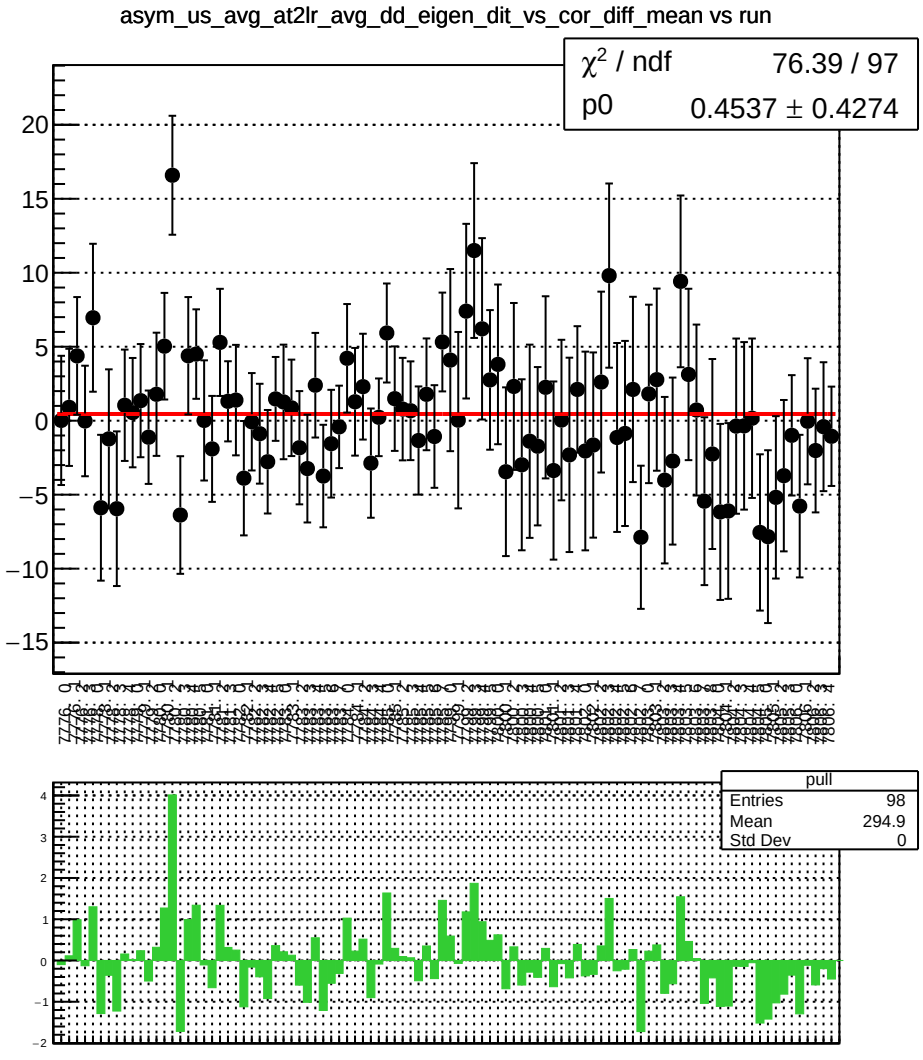

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.39 / 97
p0 0.4537 ± 0.4274
pull
Entries 98
Mean 294.9
Std Dev 0
pull1D
Entries 98
Mean −0.02478
Std Dev 0.8825

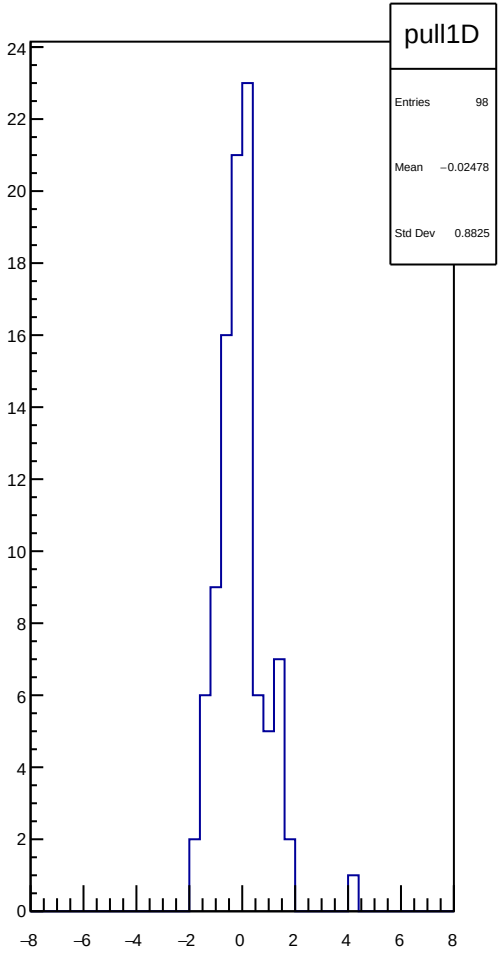

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.61e+04 / 97
p0 410.7 ± 0.3023
650
600
550
500
450
400
350
300

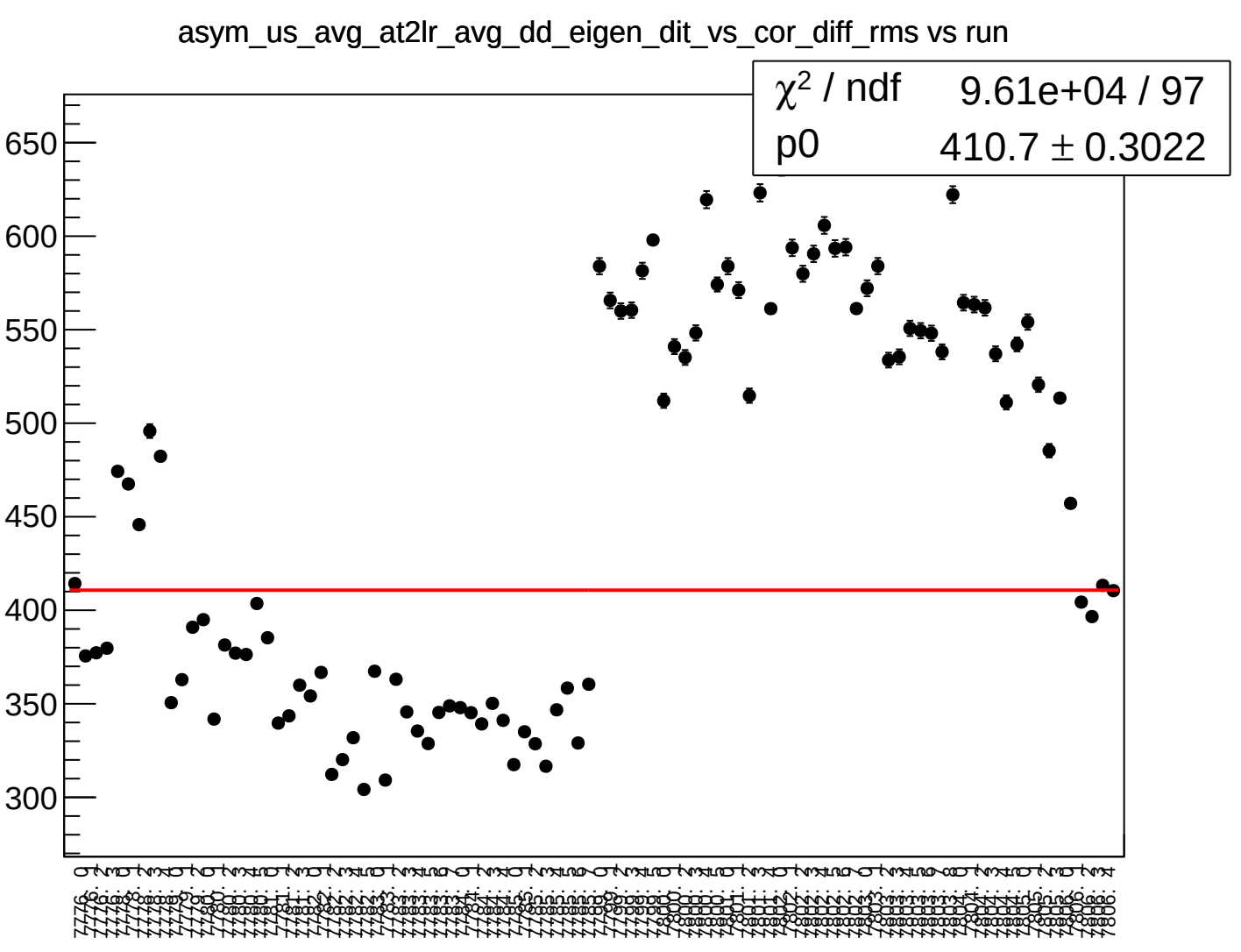

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.67 / 97
p0 −7.211e−06 ± 2.393e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 98
Mean −1012
Std Dev 0
2
1
0
−1
−2

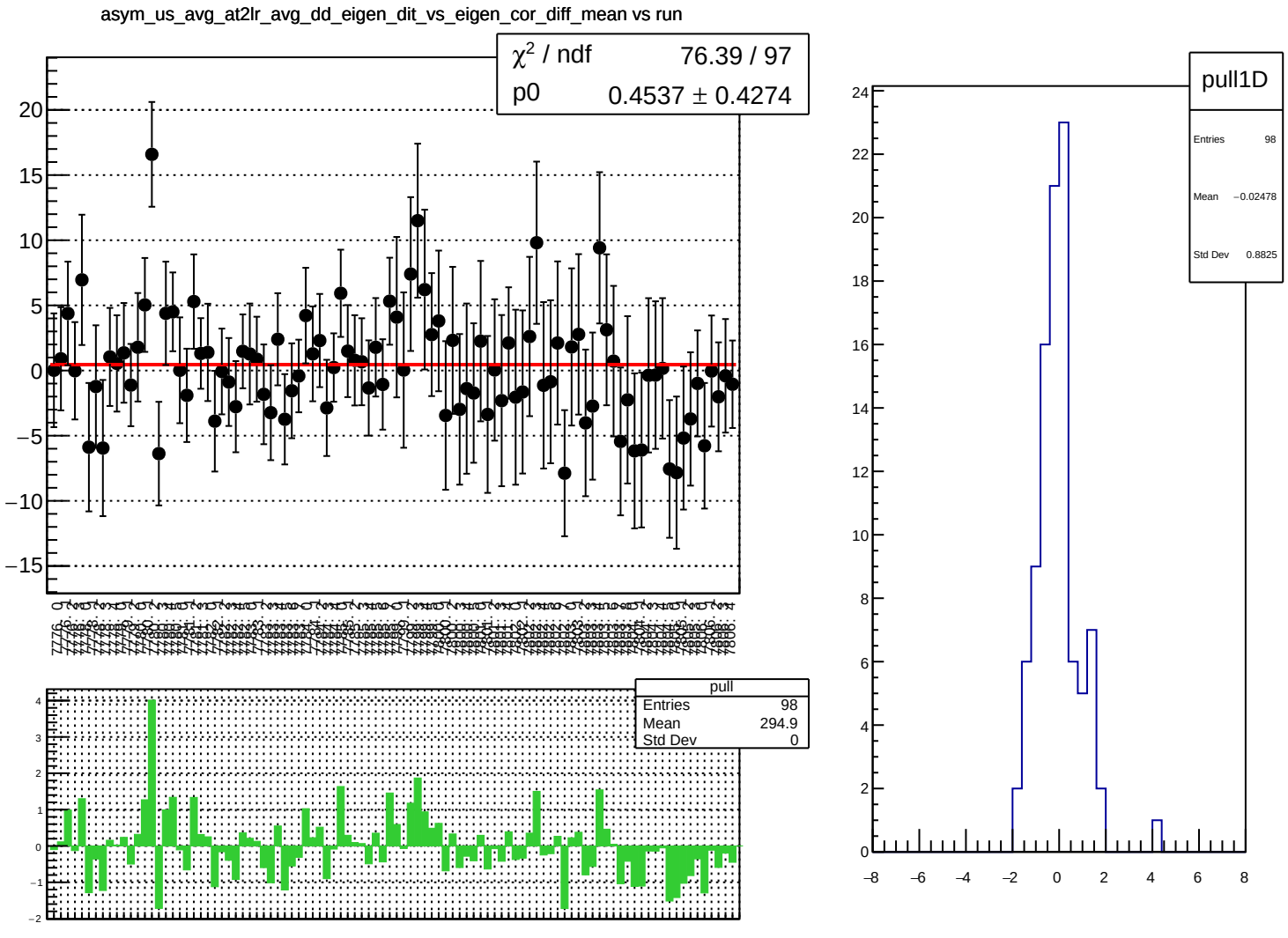

pull1D
Entries 98
Mean 0.001626
Std Dev 0.935
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

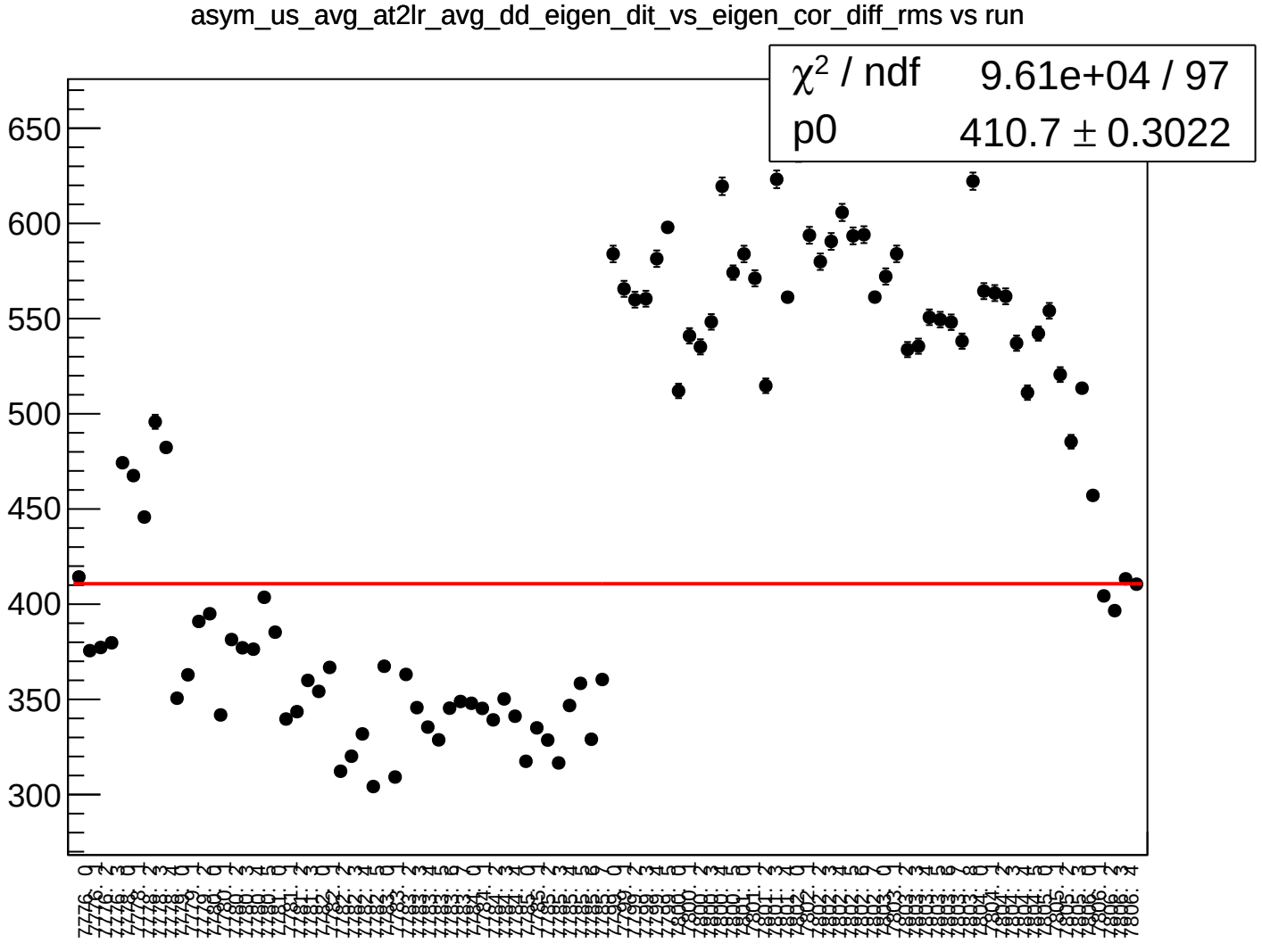

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.497e+04 / 97
p0 0.02338 ± 1.692e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018

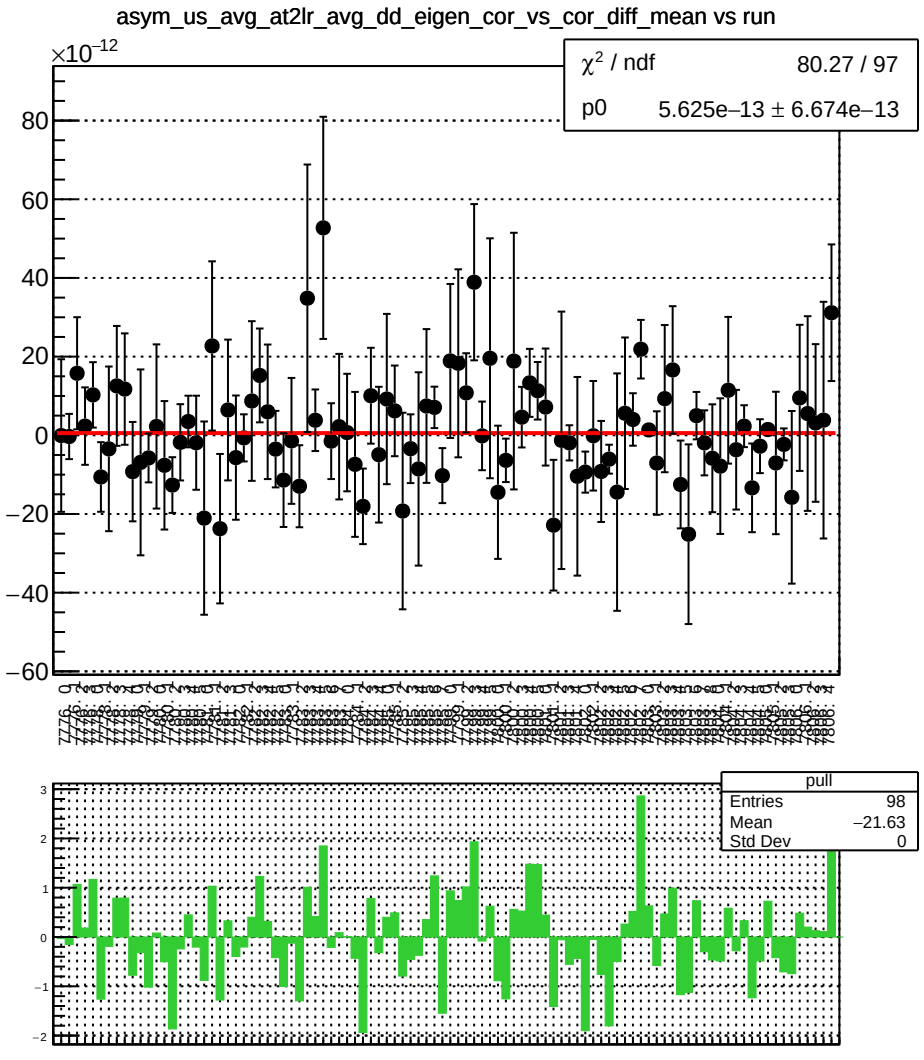

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.39 / 97
p0 0.4537 ± 0.4274
pull
Entries 98
Mean 294.9
Std Dev 0

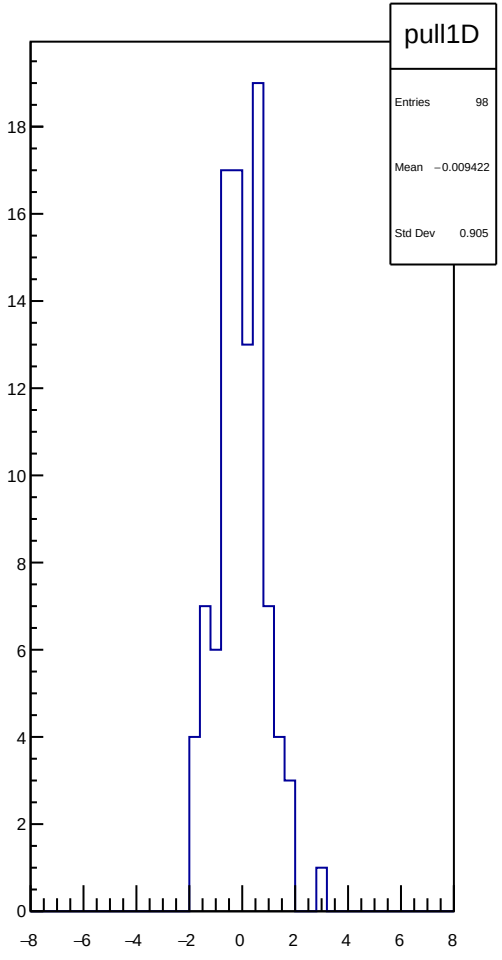

pull1D
Entries 98
Mean −0.02478
Std Dev 0.8825

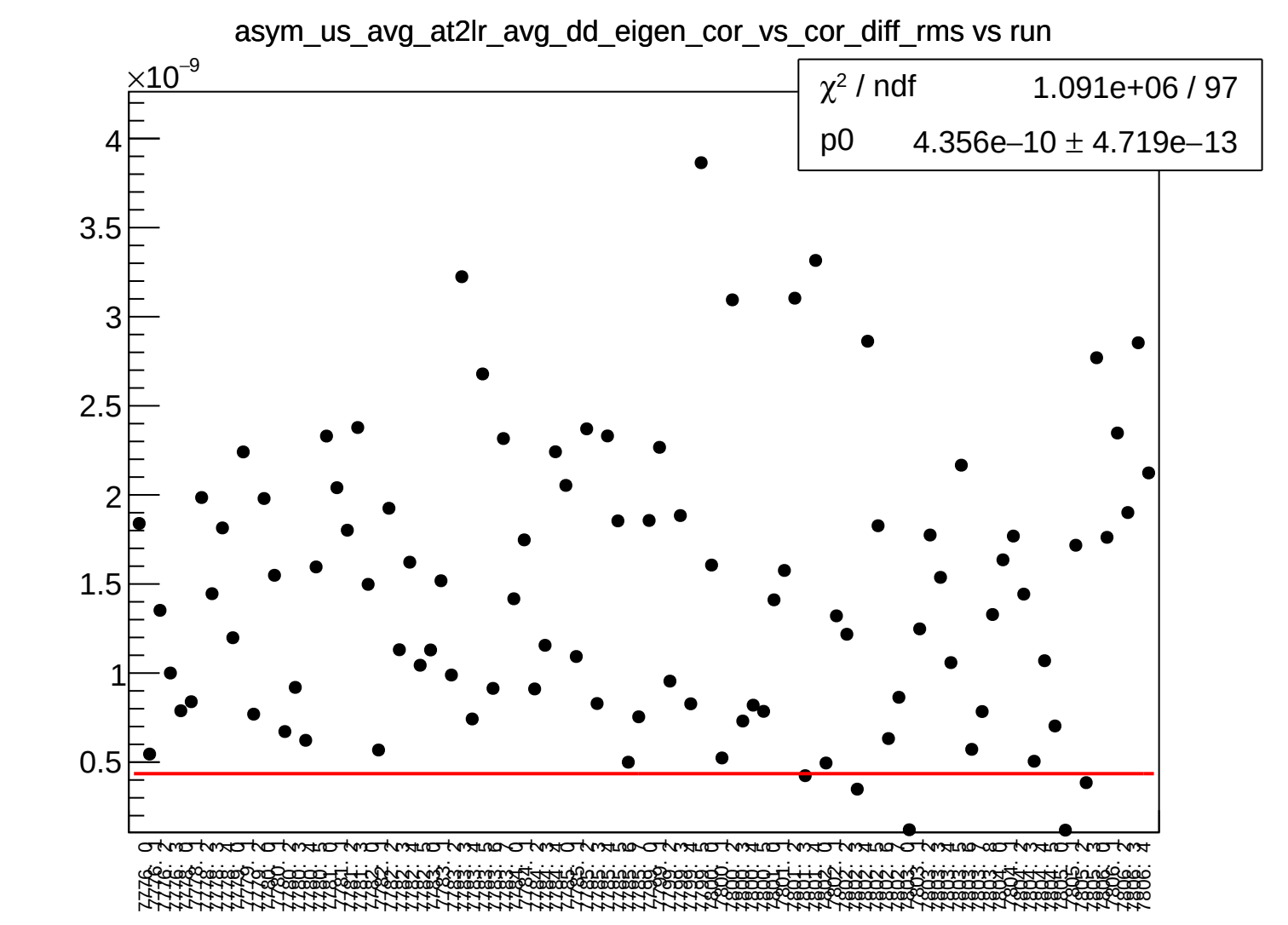

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.61e+04 / 97
p0 410.7 ± 0.3022
650
600
550
500
450
400
350
300

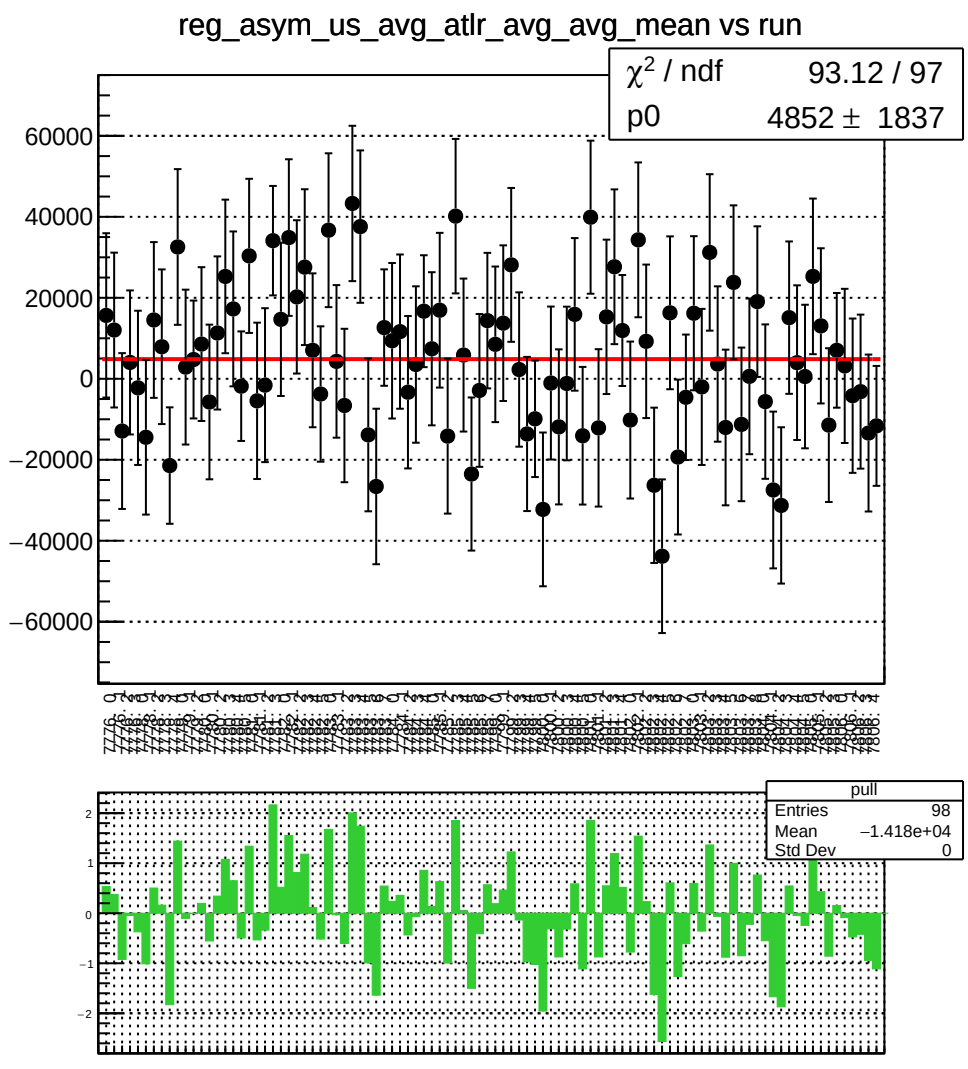

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.39 / 97
p0 0.4537 ± 0.4274
pull
Entries 98
Mean 294.9
Std Dev 0
pull1D
Entries 98
Mean −0.02478
Std Dev 0.8825

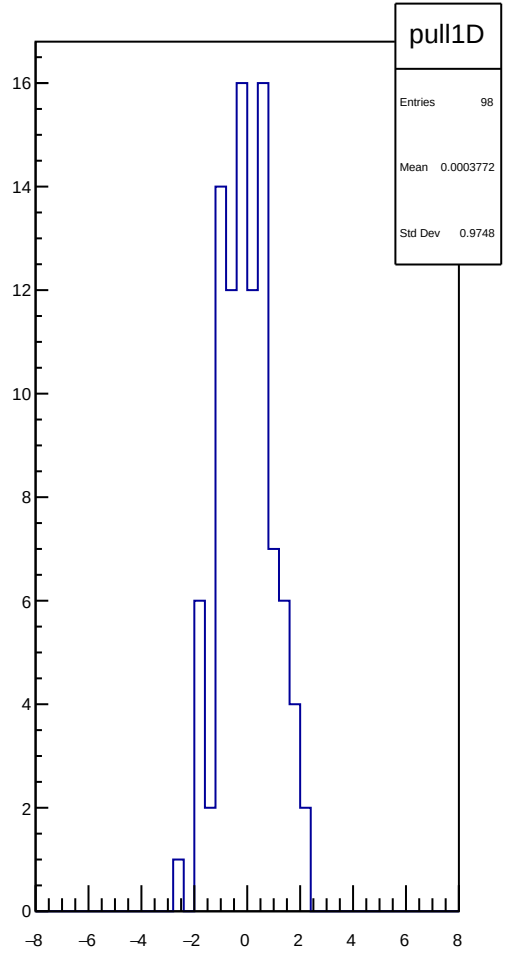

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.61e+04 / 97
p0 410.7 ± 0.3022
650
600
550
500
450
400
350
300

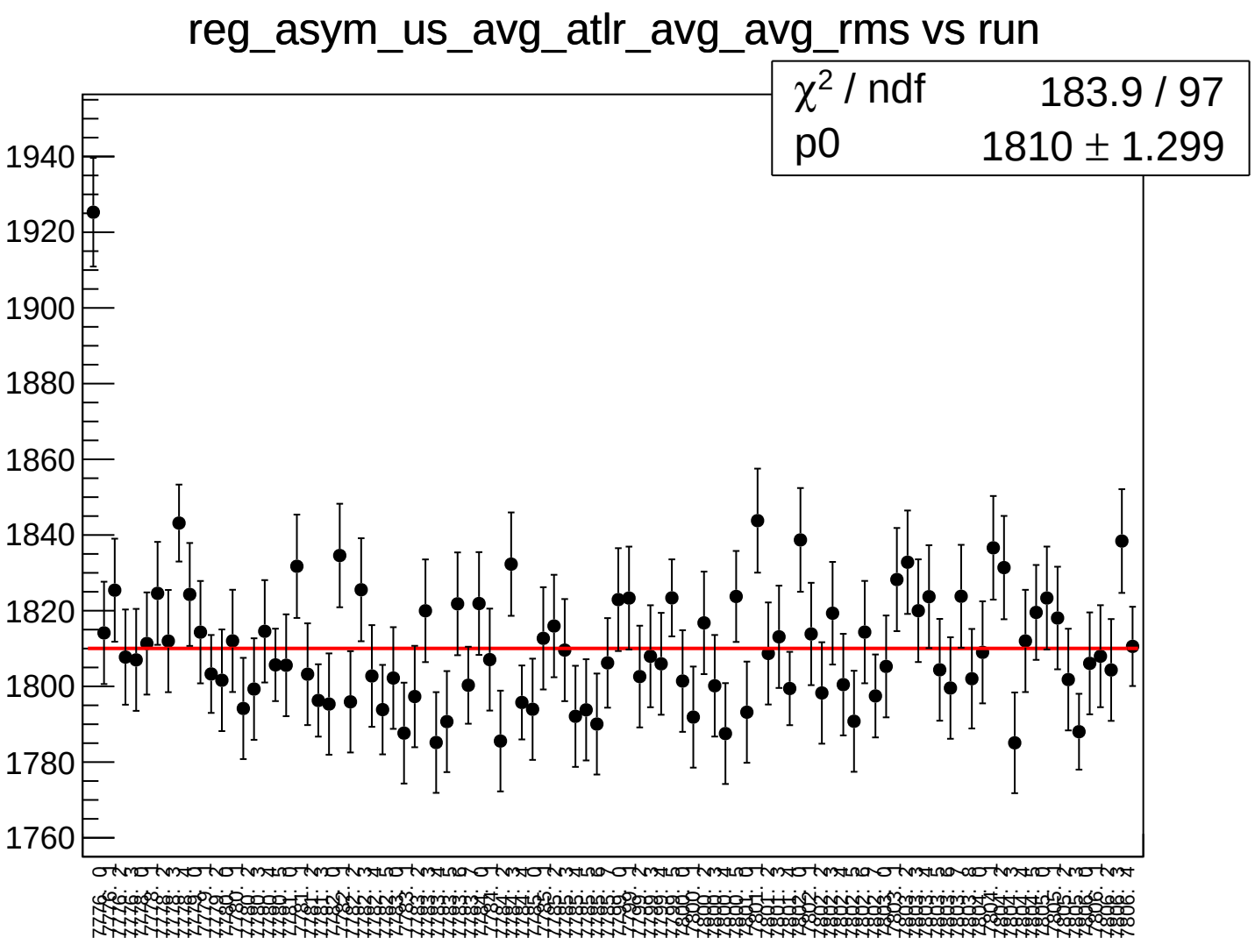

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.27 / 97
p0 5.625e−13 ± 6.674e−13
pull
Entries 98
Mean −21.63
Std Dev 0

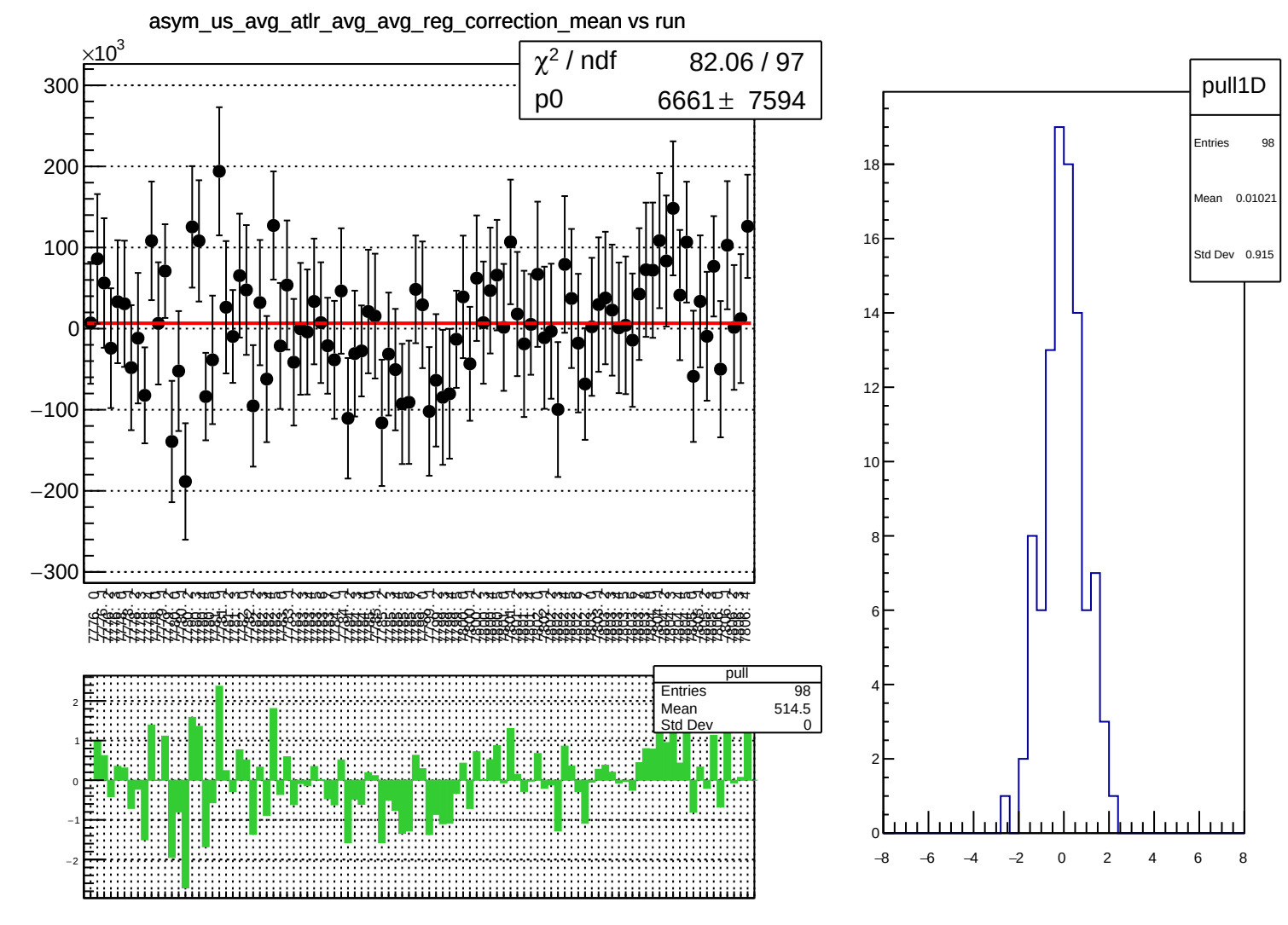

pull1D
Entries 98
Mean −0.009422
Std Dev 0.905

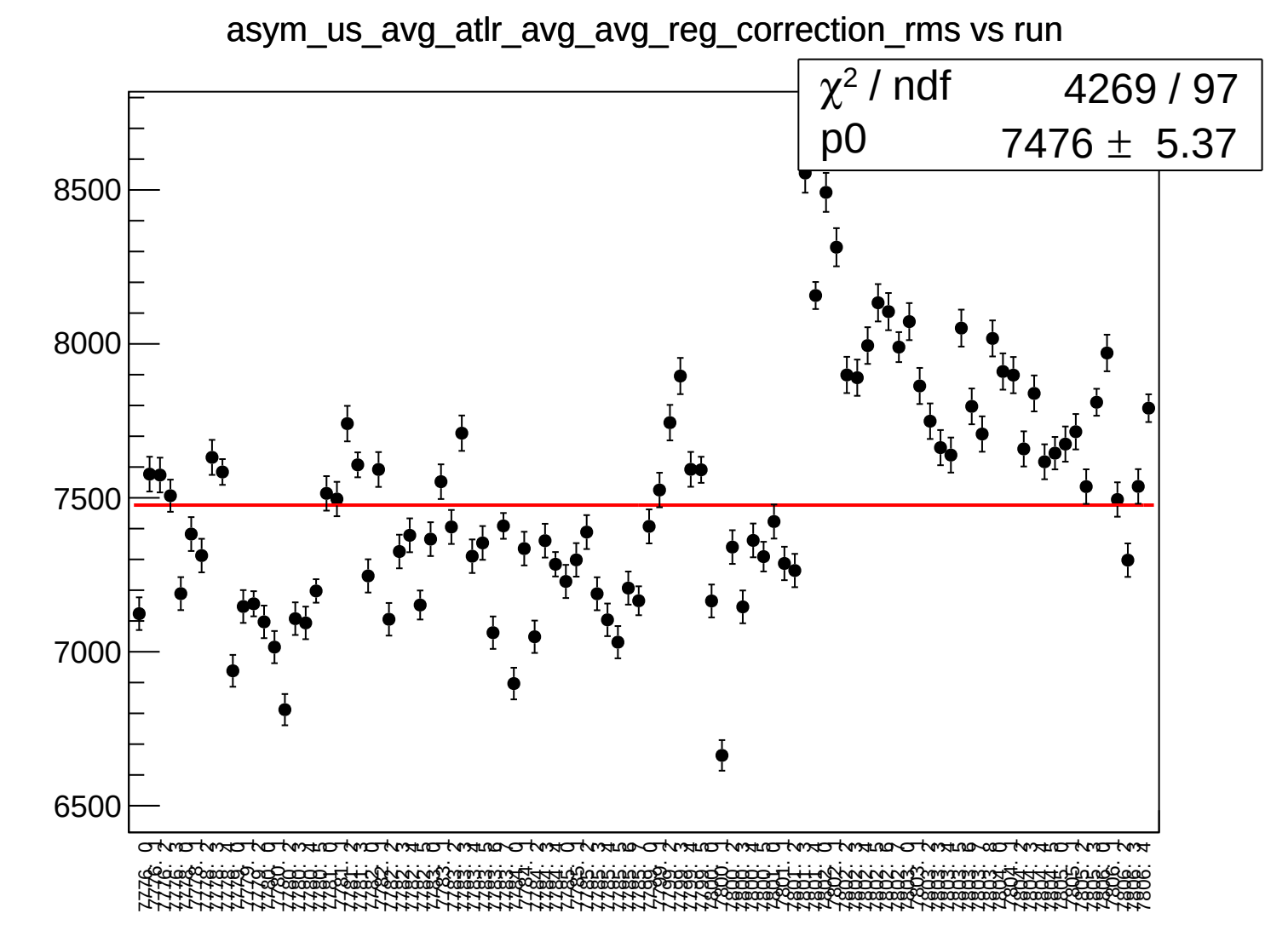

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.091e+06 / 97
p0 4.356e−10 ± 4.719e−13
4
3.5
3
2.5
2
1.5
1
0.5

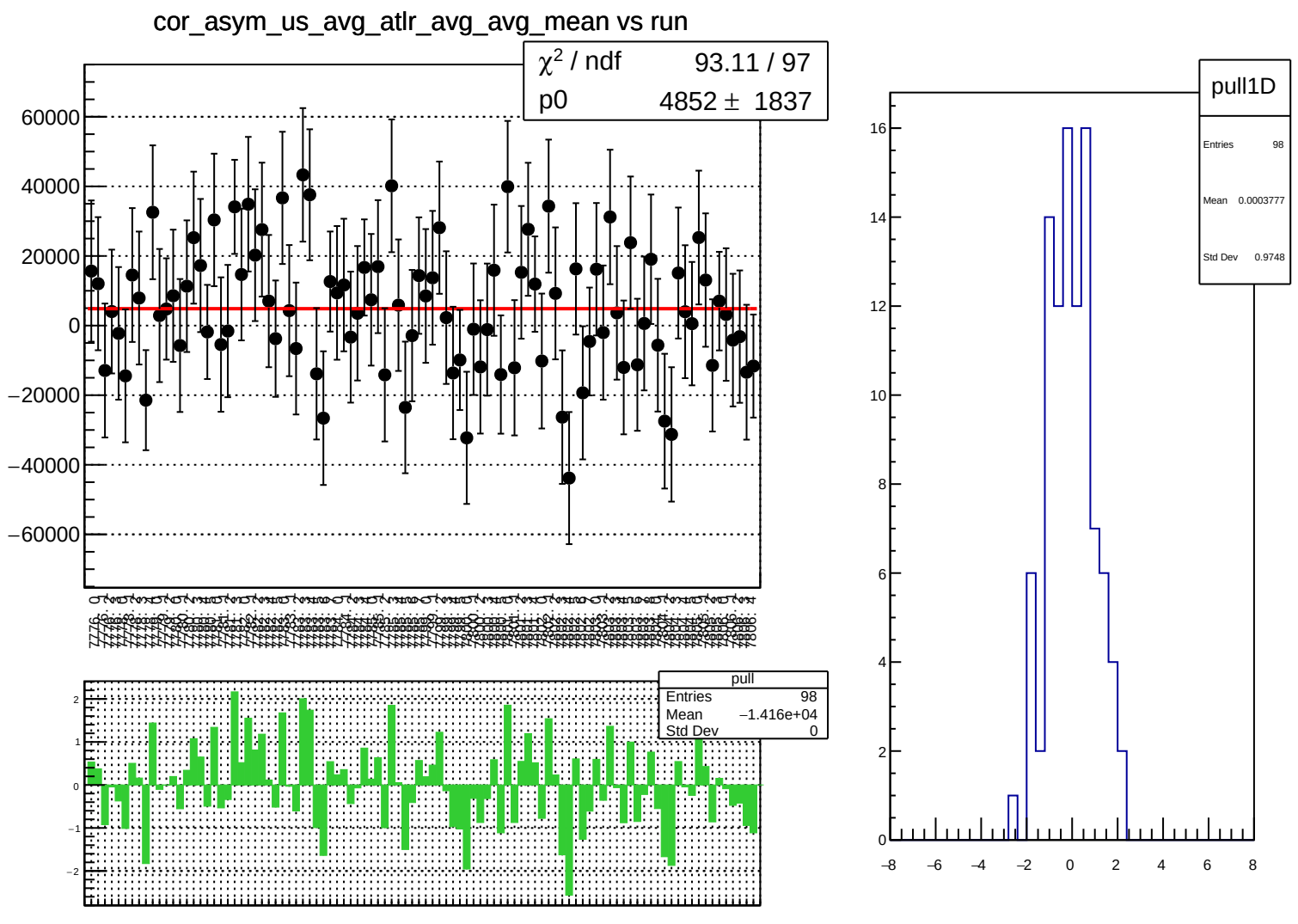

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.12 / 97
p0 4852 ± 1837
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −1.418e+04
Std Dev 0
2
1
0
−1
−2

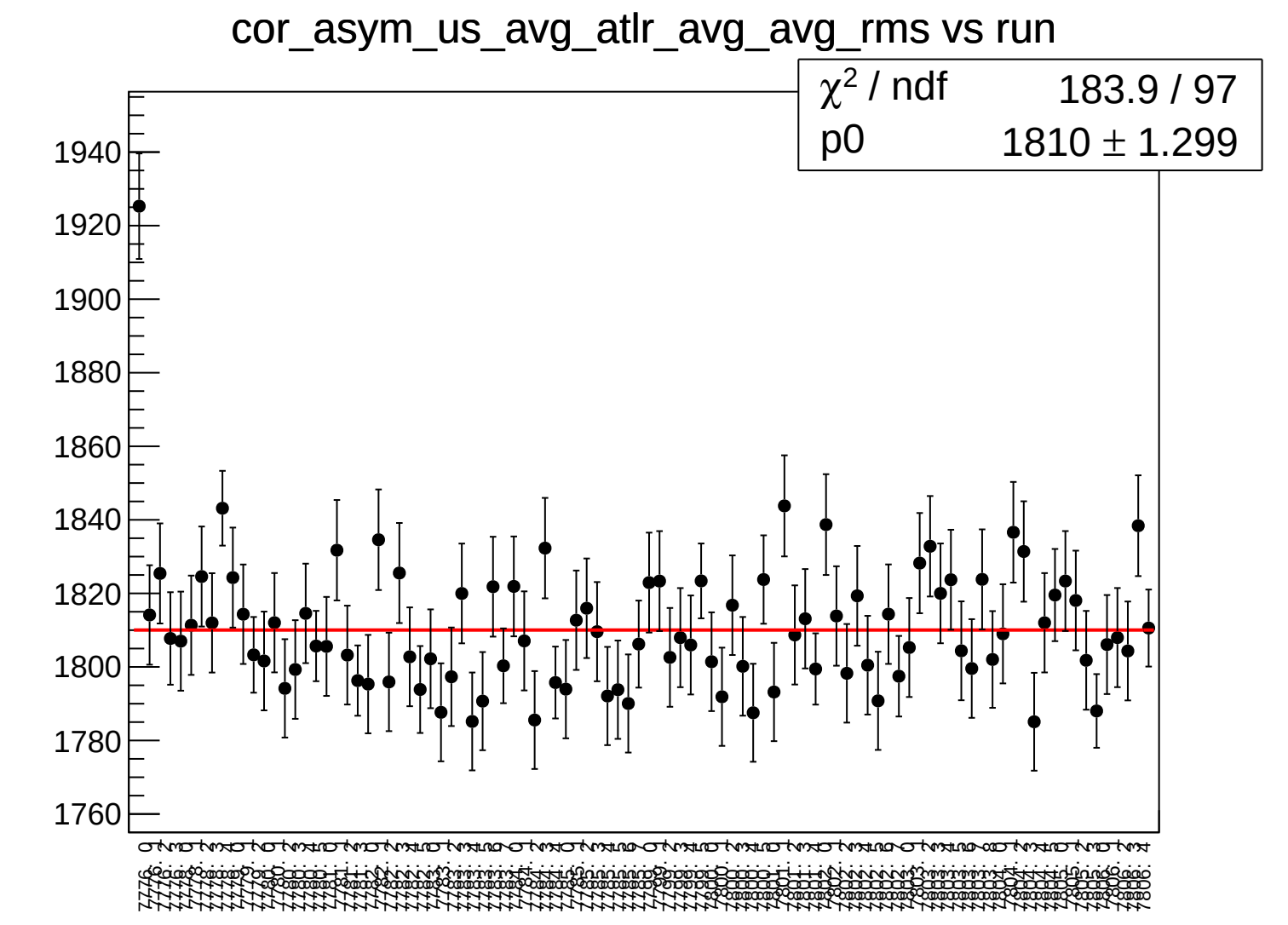

pull1D
Entries 98
Mean 0.0003772
Std Dev 0.9748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

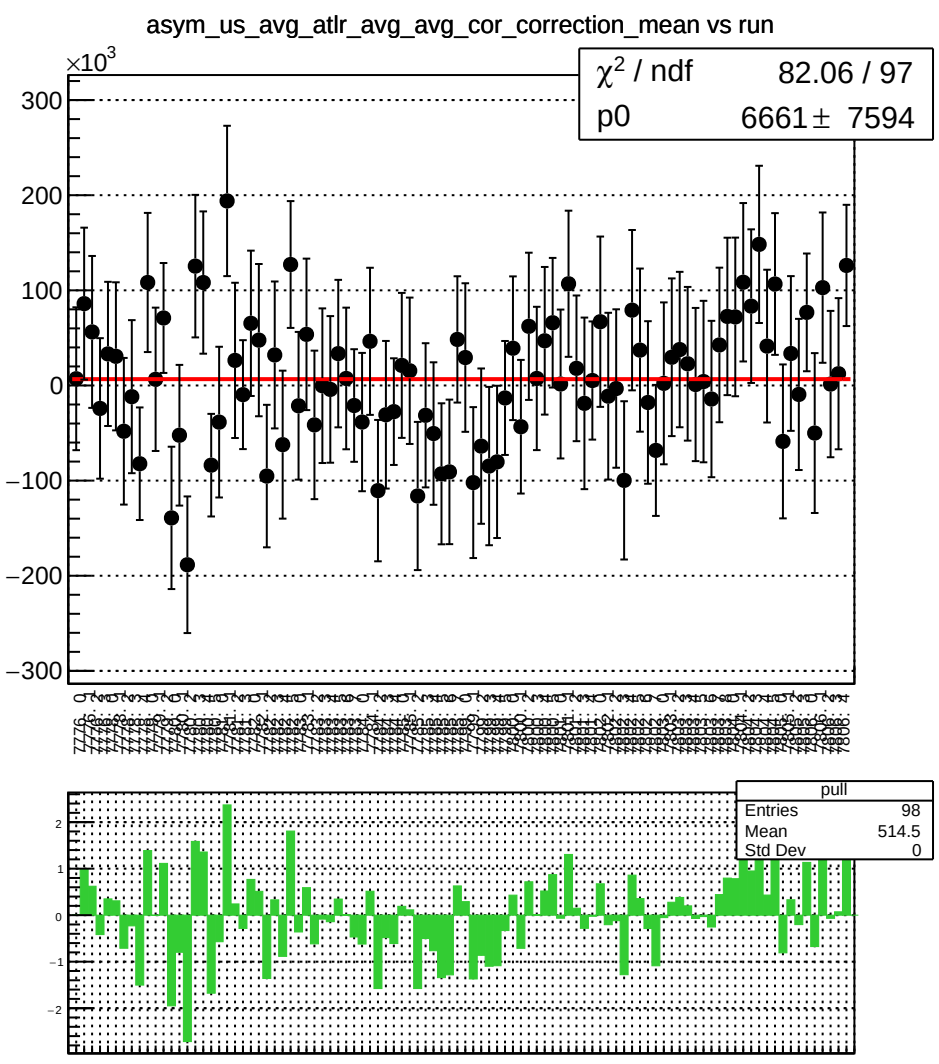

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 183.9 / 97
p0 1810 ± 1.299
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

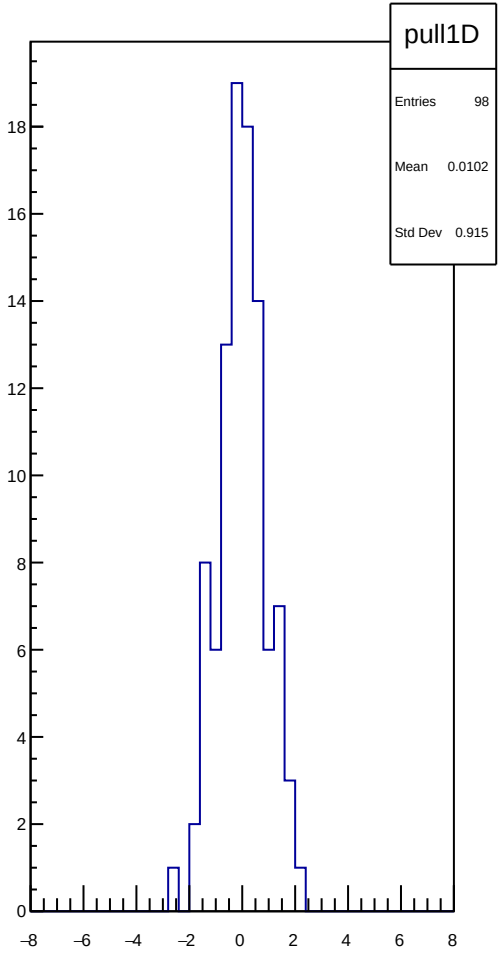

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 82.06 / 97
p0 6661 ± 7594
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 514.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01021
Std Dev 0.915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

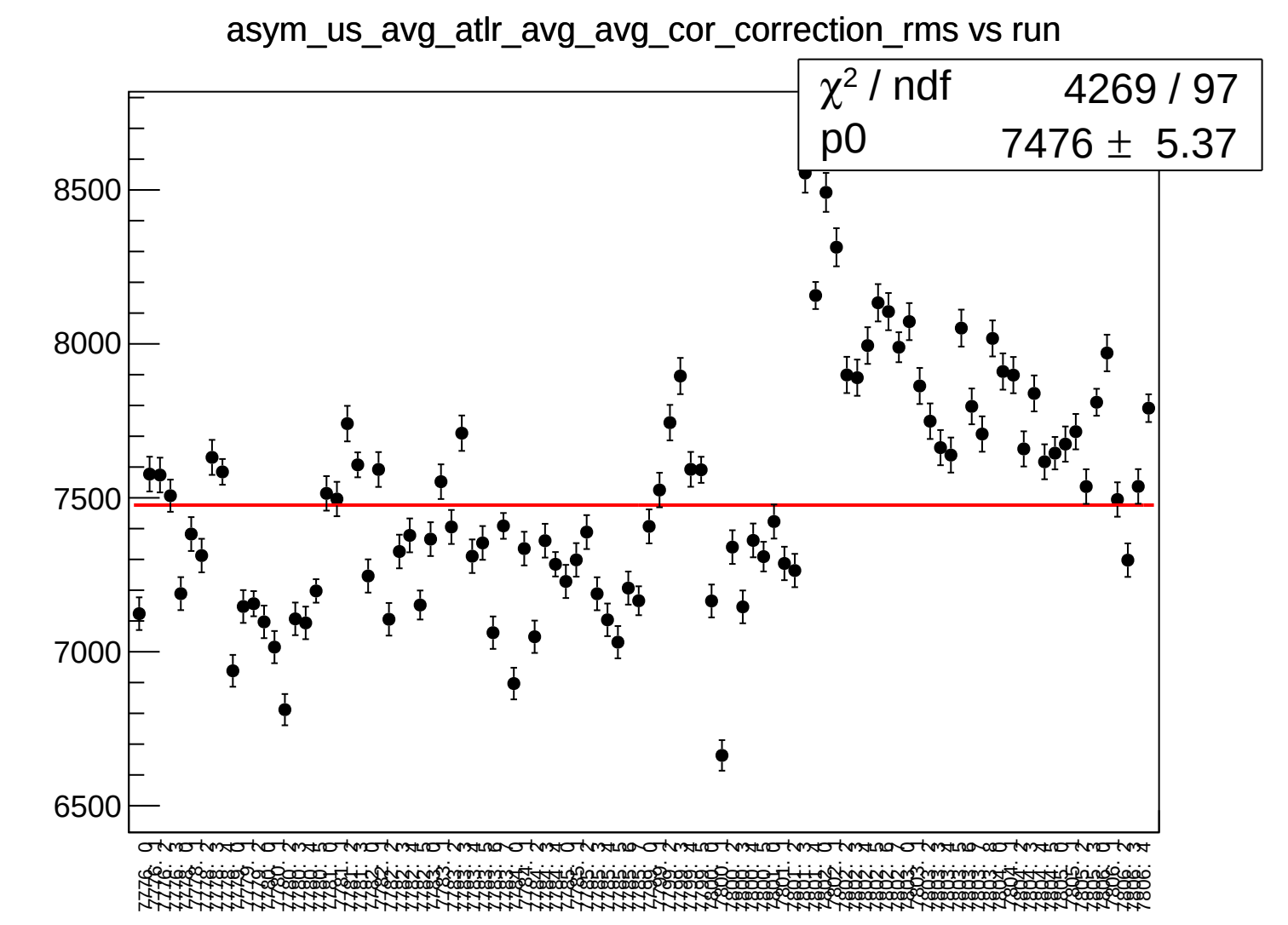

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 4269 / 97
p0 7476 ± 5.37
8500
8000
7500
7000
6500

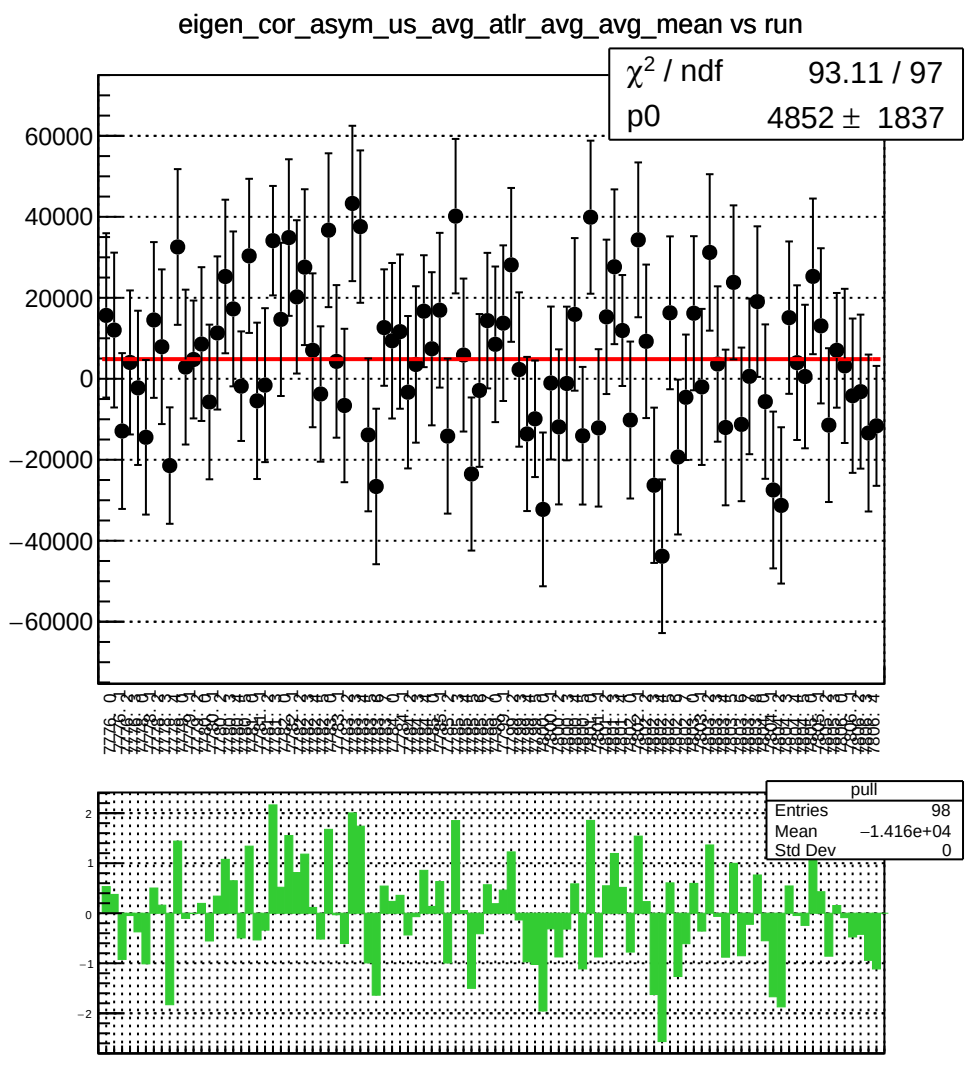

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.11 / 97
p0 4852 ± 1837
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −1.416e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.0003777
Std Dev 0.9748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

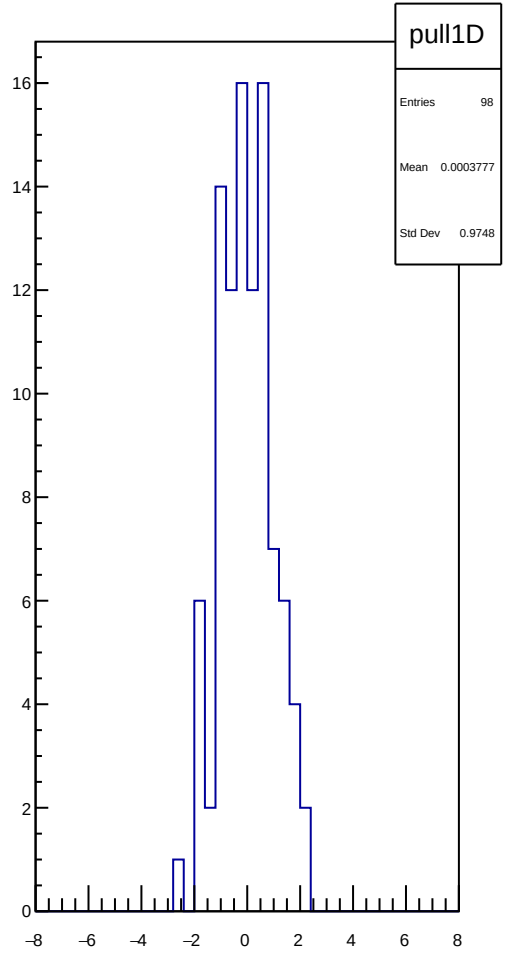

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 183.9 / 97
p0 1810 ± 1.299
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

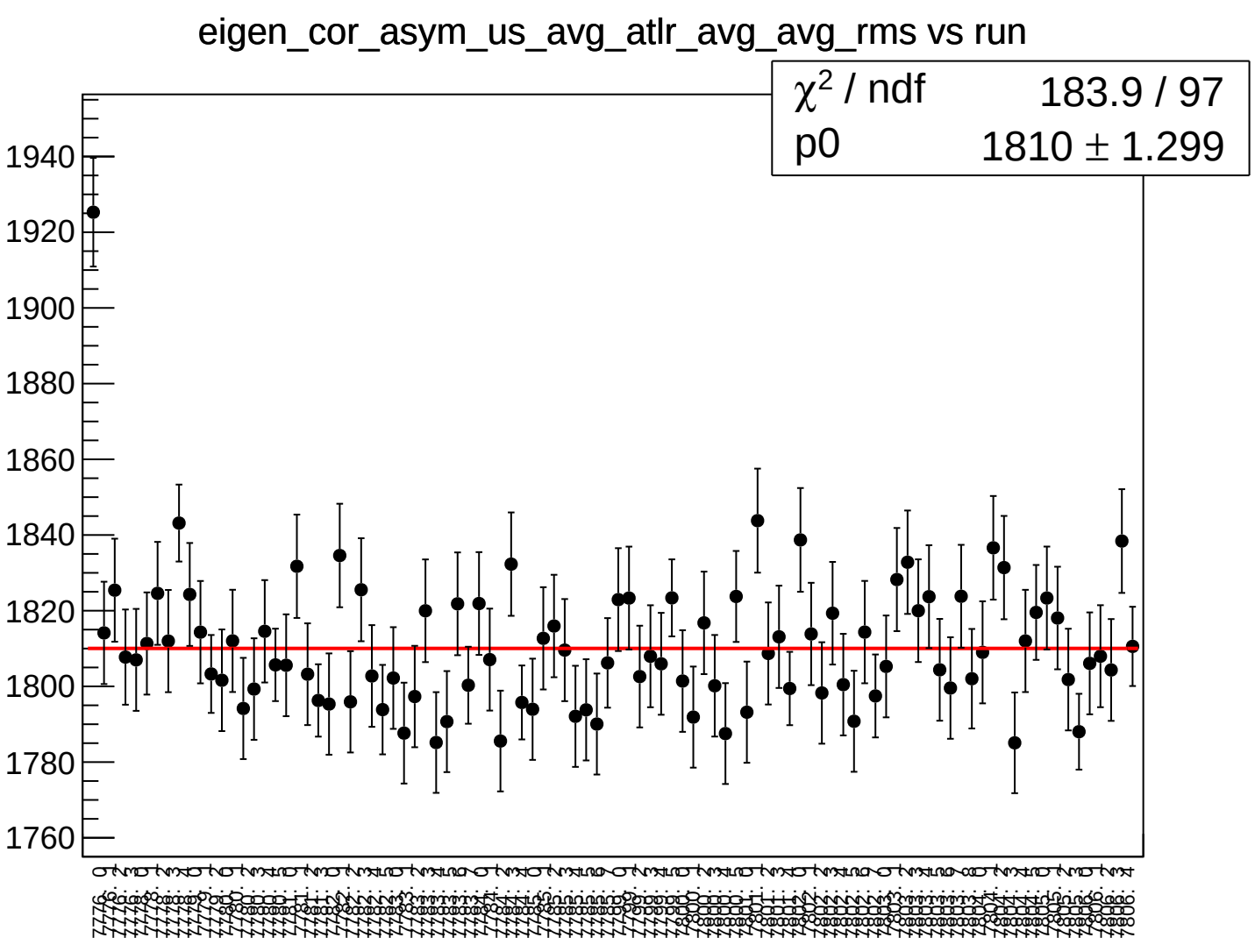

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.06 / 97
p0 6661 ± 7594
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 514.5
Std Dev 0
2
1
0
−1
−2

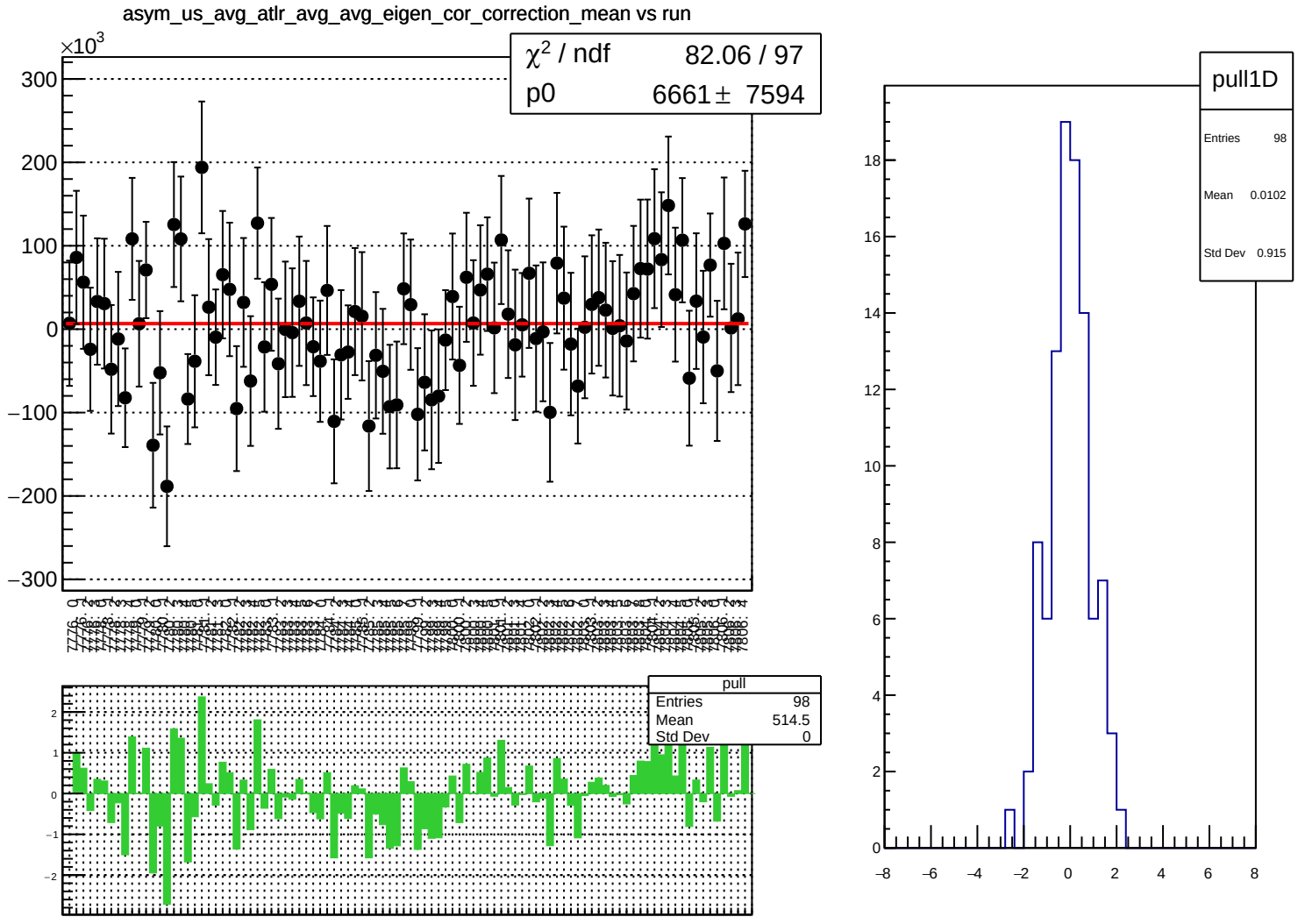

pull1D
Entries 98
Mean 0.0102
Std Dev 0.915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

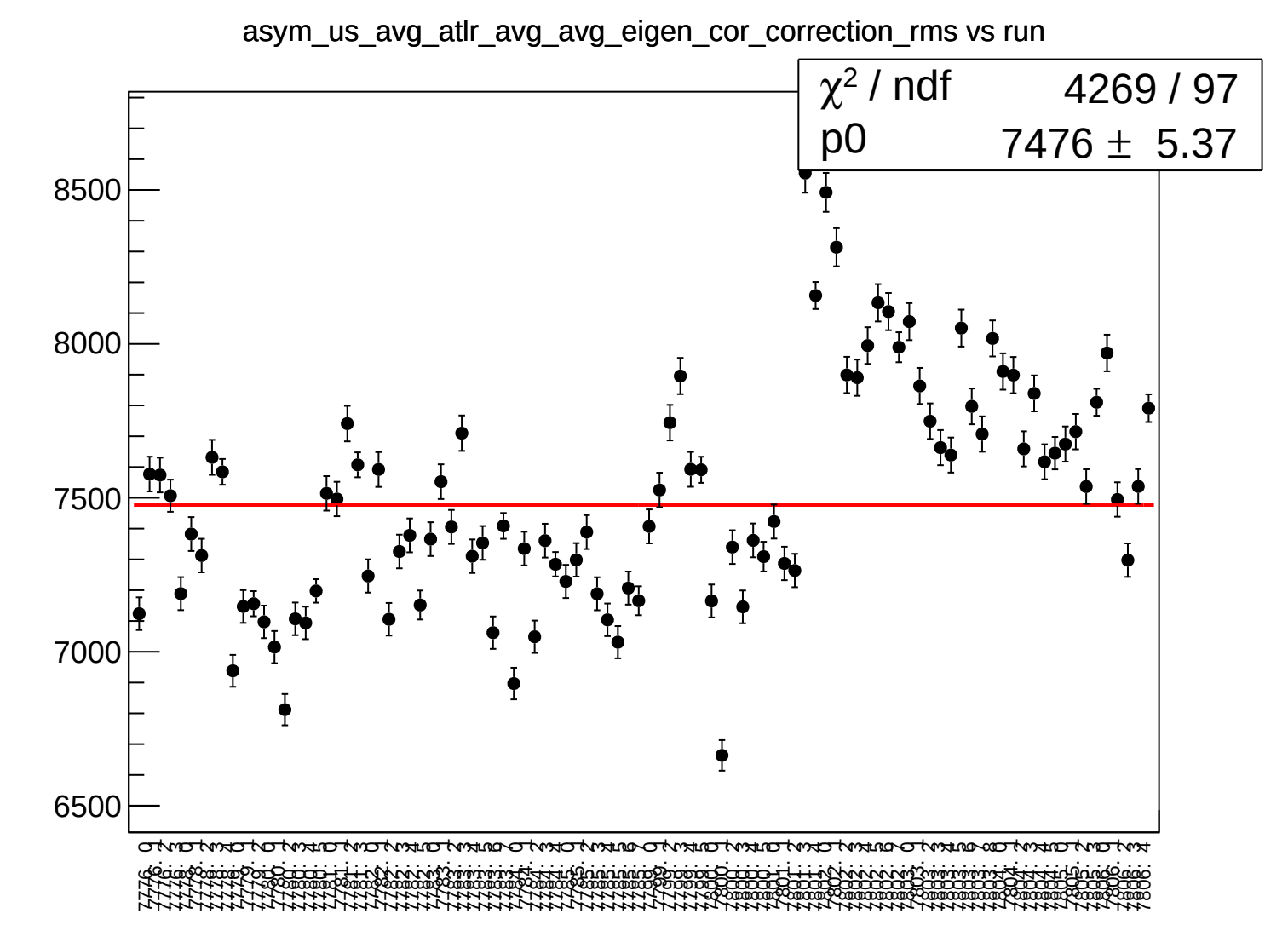

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 4269 / 97
p0 7476 ± 5.37
8500
8000
7500
7000
6500

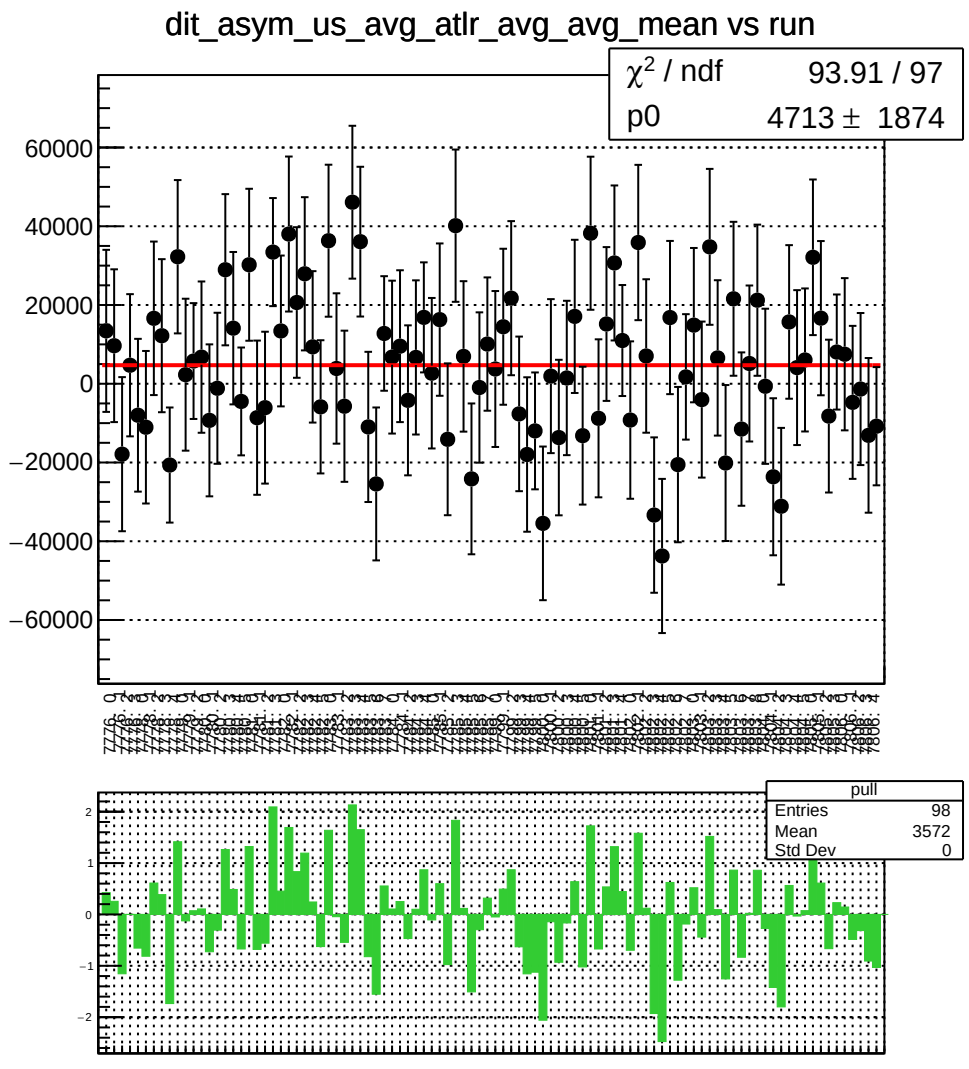

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.11 / 97
p0 4852 ± 1837
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −1.416e+04
Std Dev 0
2
1
0
−1
−2

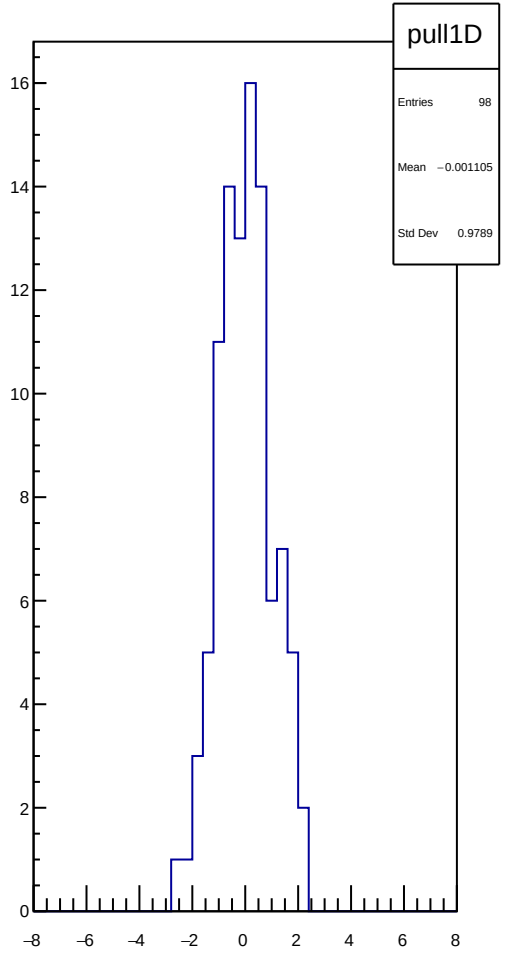

pull1D
Entries 98
Mean 0.0003777
Std Dev 0.9748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

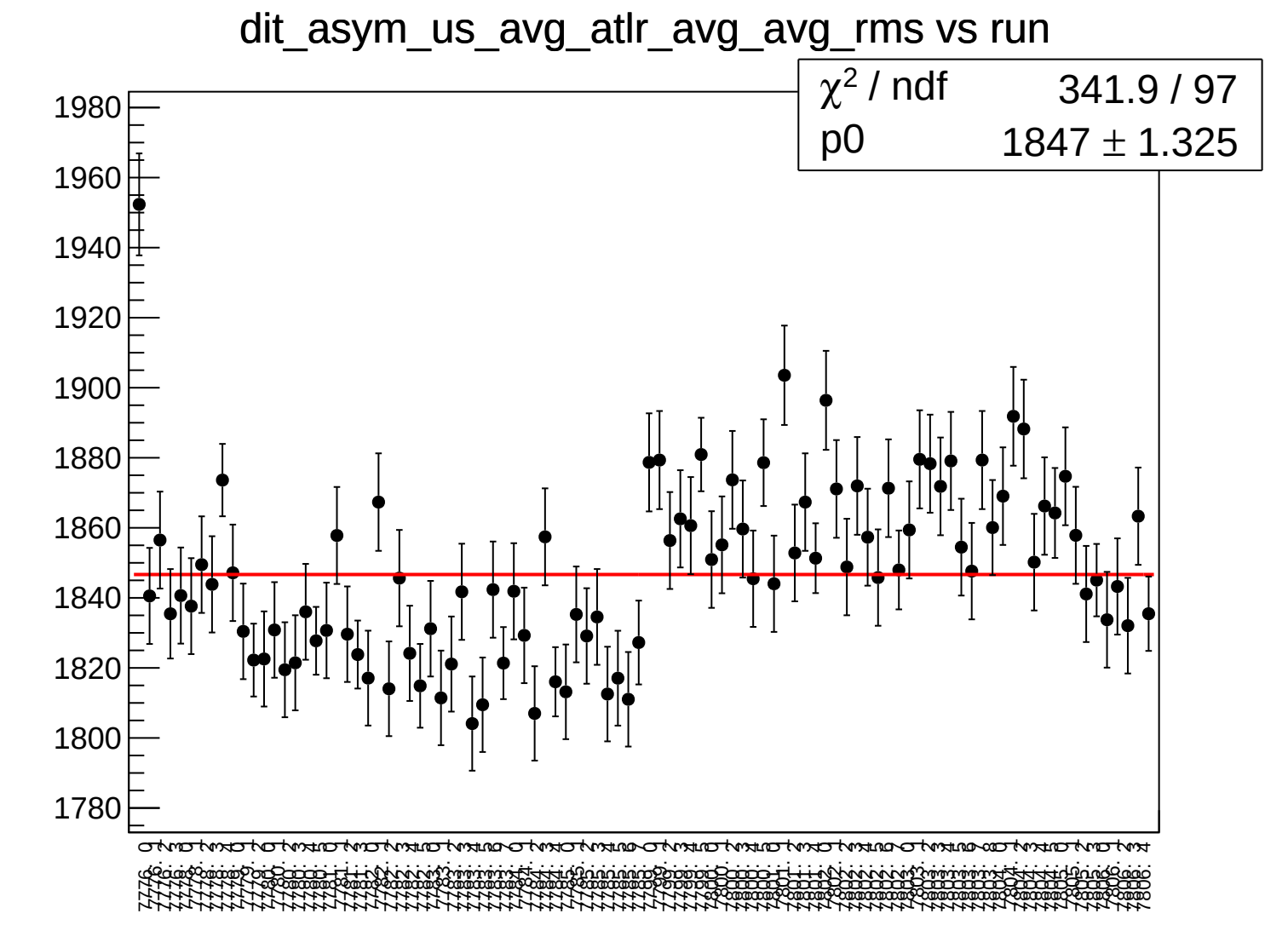

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 183.9 / 97
p0 1810 ± 1.299
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

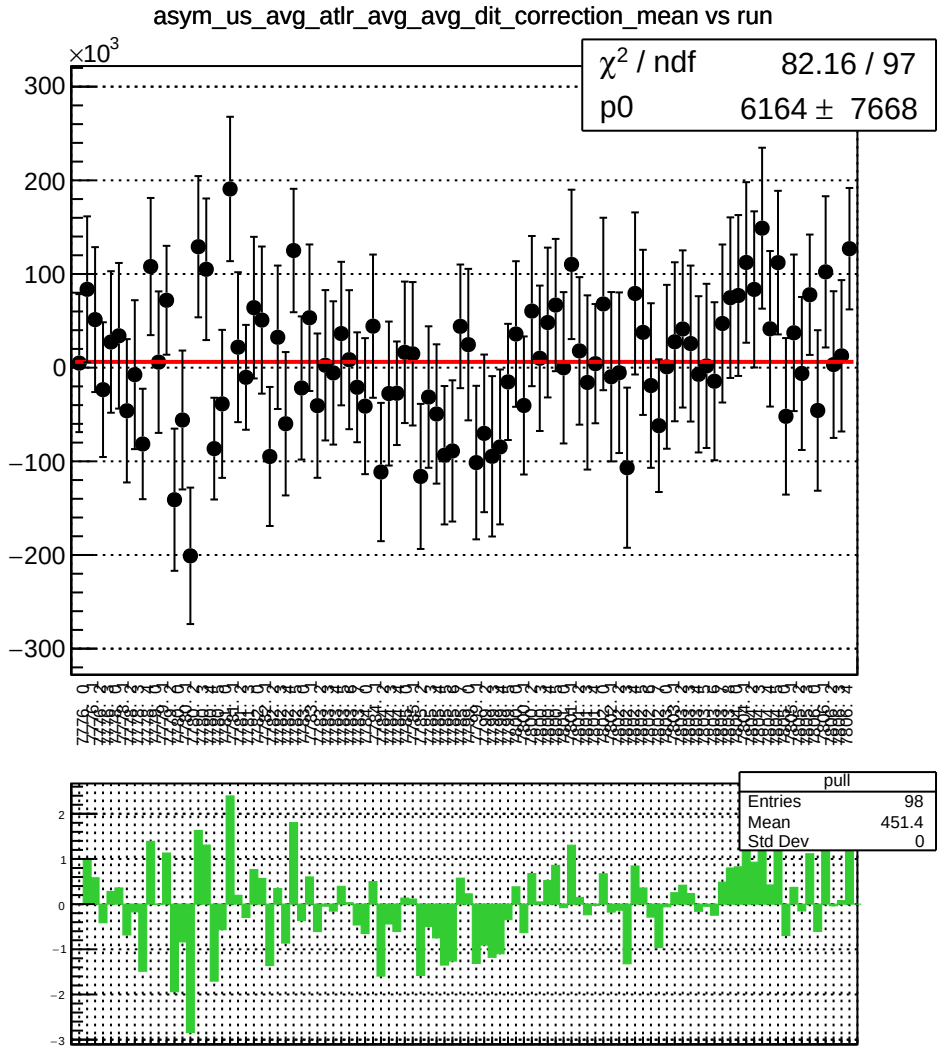

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.06 / 97
p0 6661 ± 7594
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 514.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.0102
Std Dev 0.915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

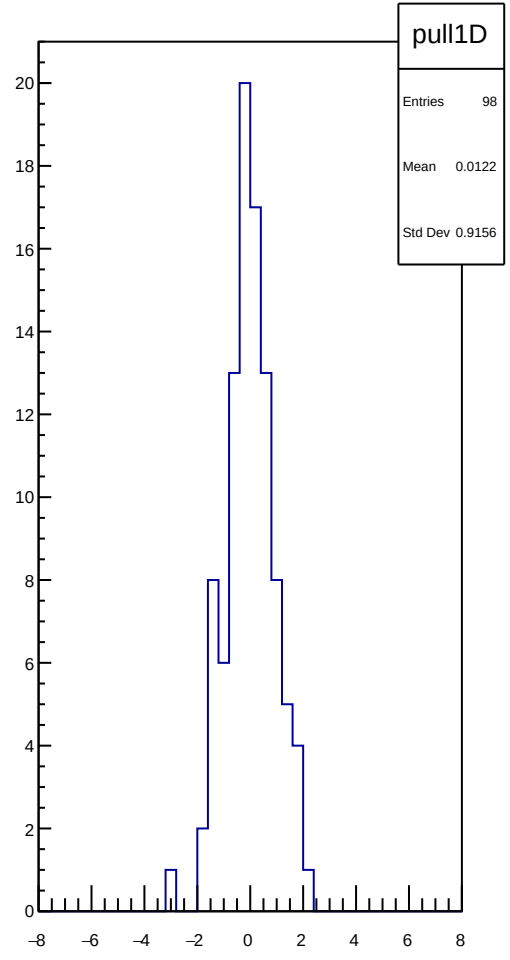

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4269 / 97
p0 7476 ± 5.37
8500
8000
7500
7000
6500

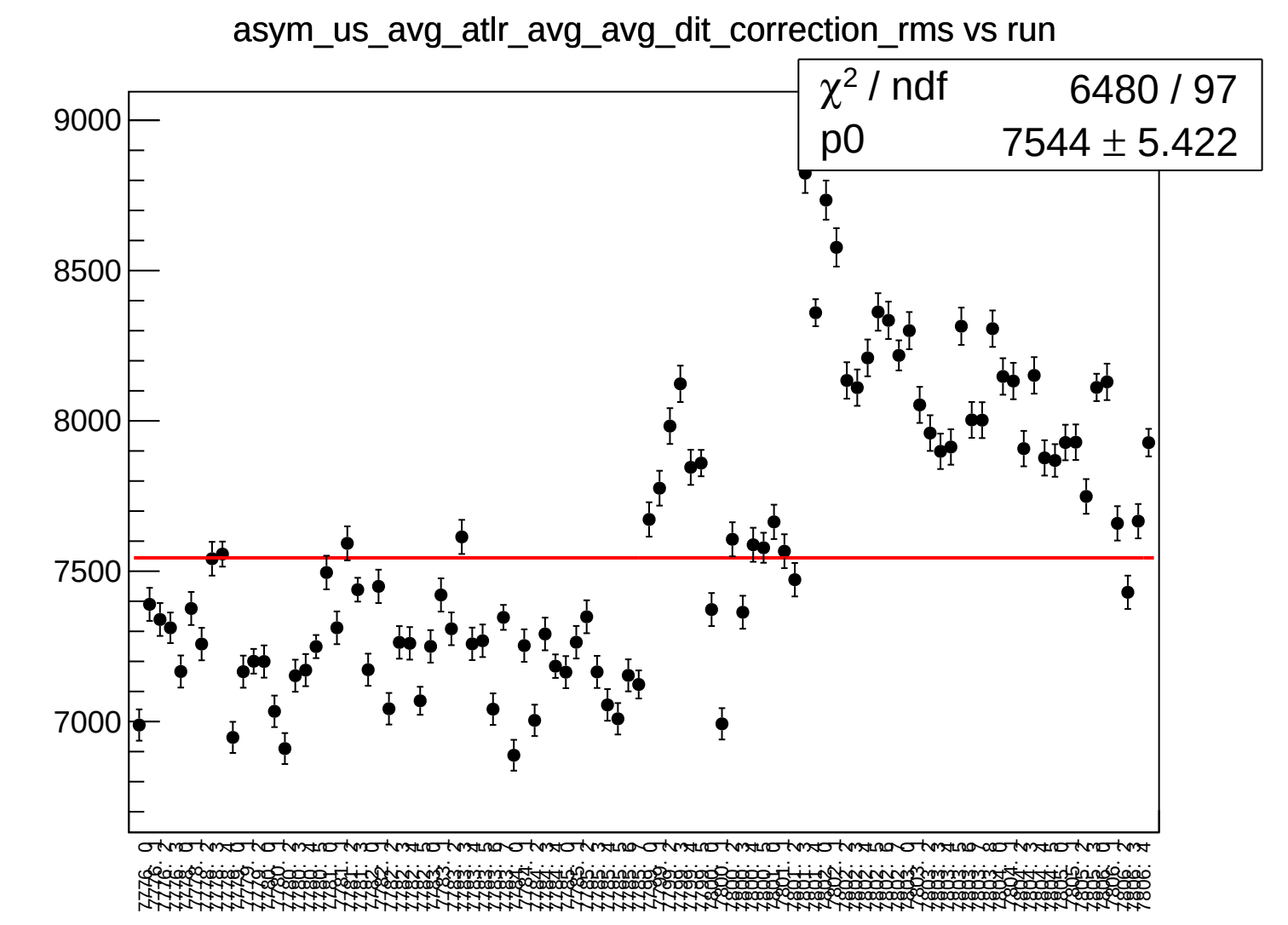

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.91 / 97
p0 4713 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 3572
Std Dev 0
2
1
0
−1
−2

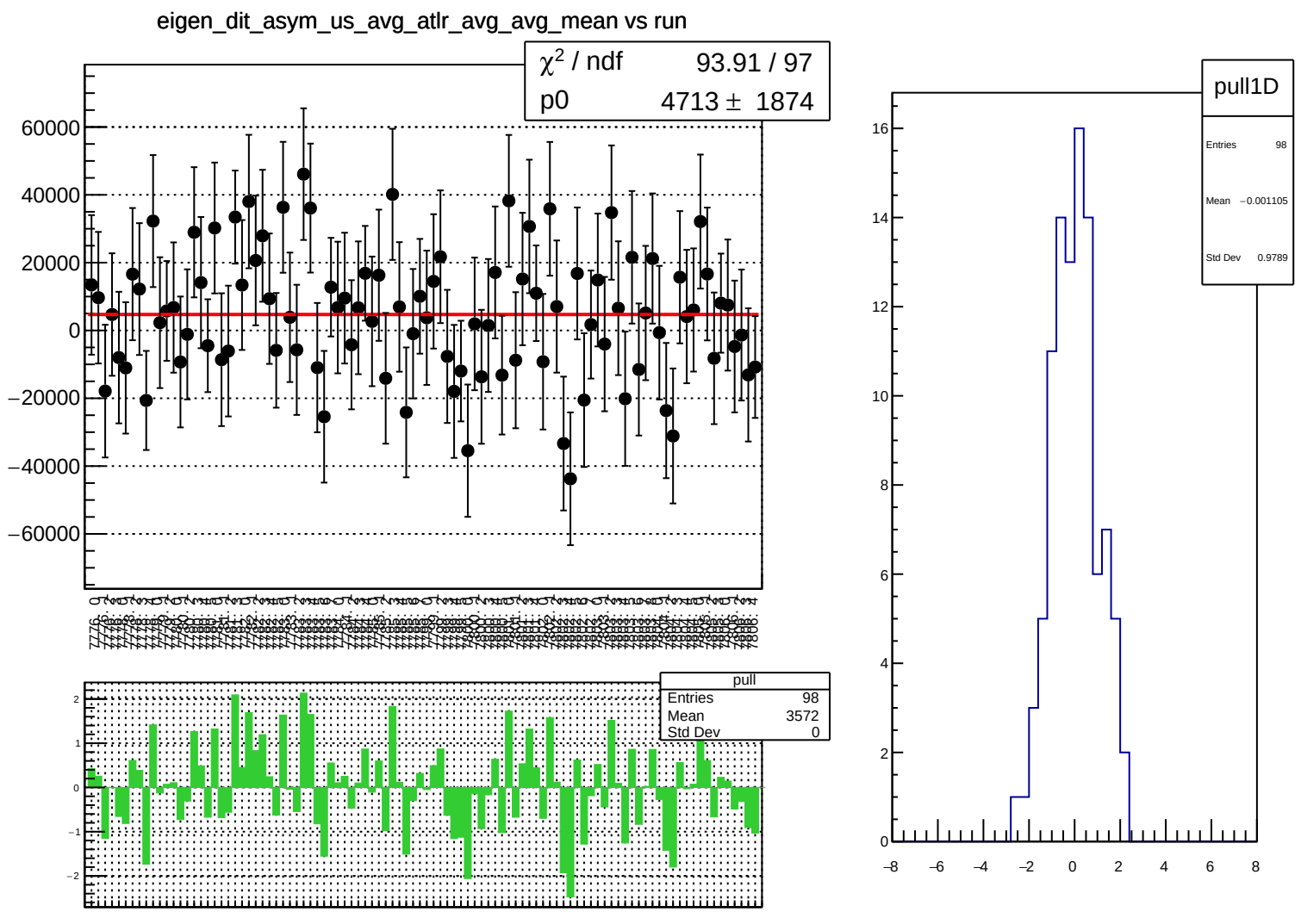

pull1D
Entries 98
Mean −0.001105
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

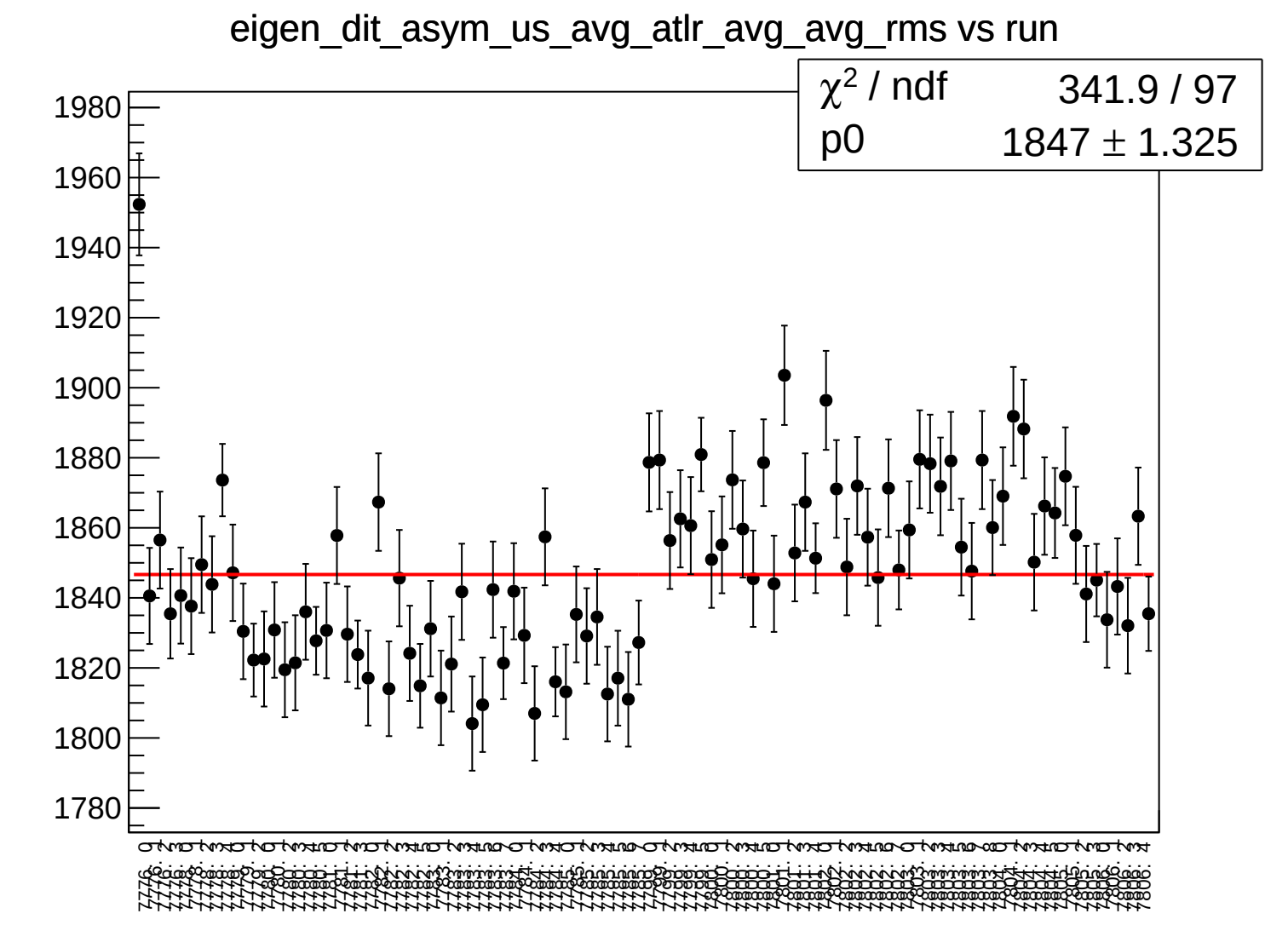

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 341.9 / 97
p0 1847 ± 1.325
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

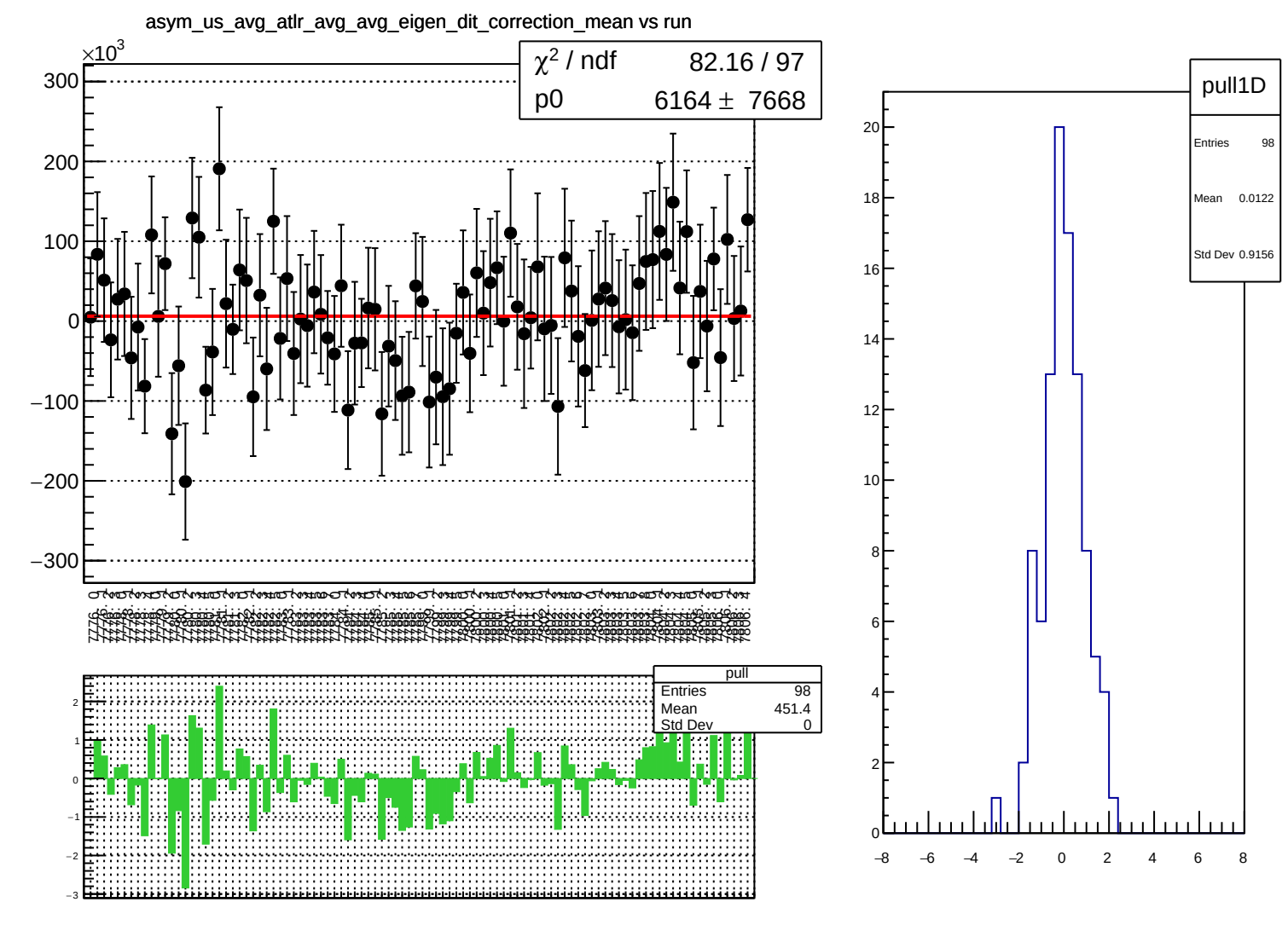

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.16 / 97
p0 6164 ± 7668
pull
Entries 98
Mean 451.4
Std Dev 0

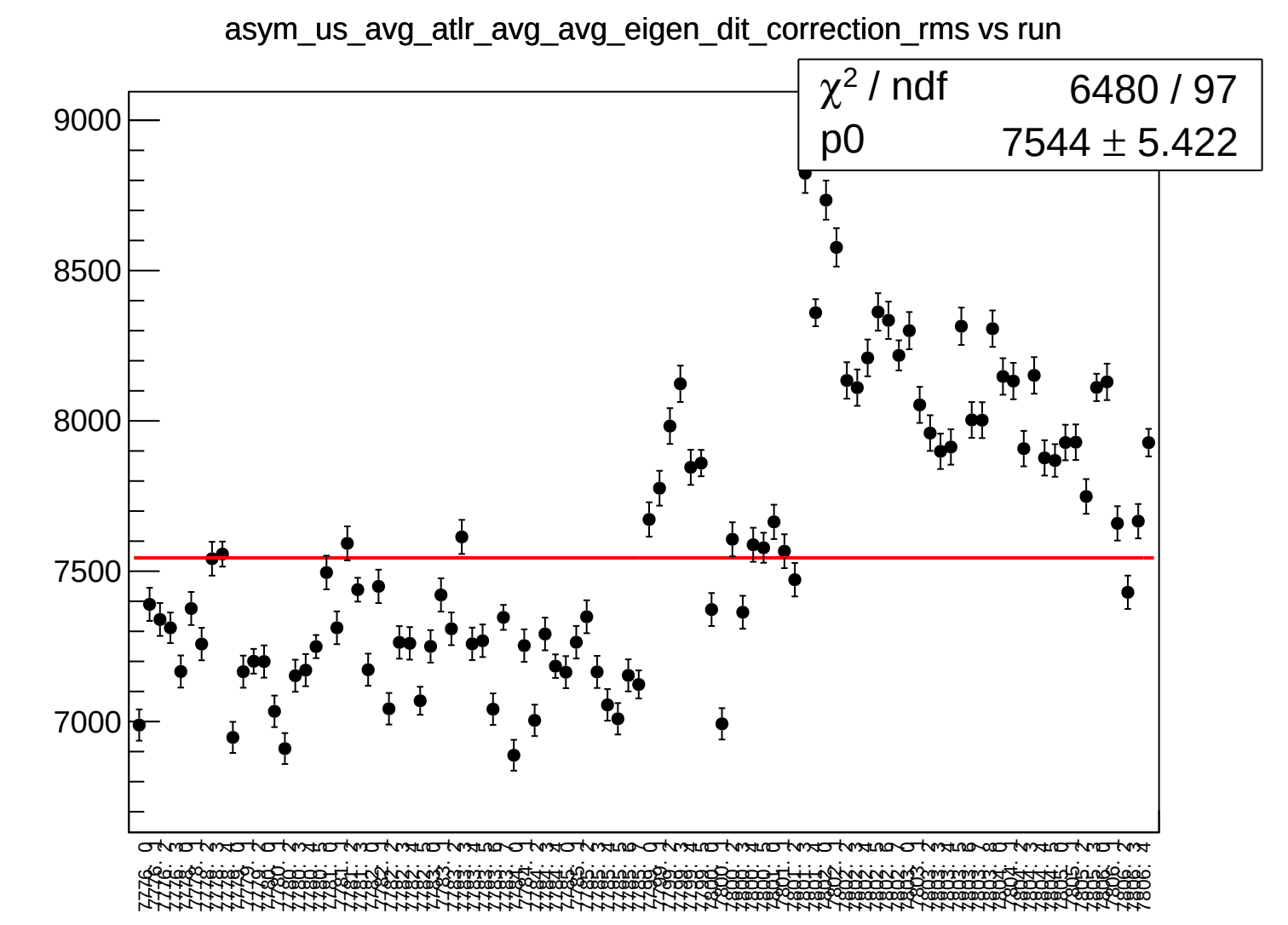

pull1D
Entries 98
Mean 0.0122
Std Dev 0.9156

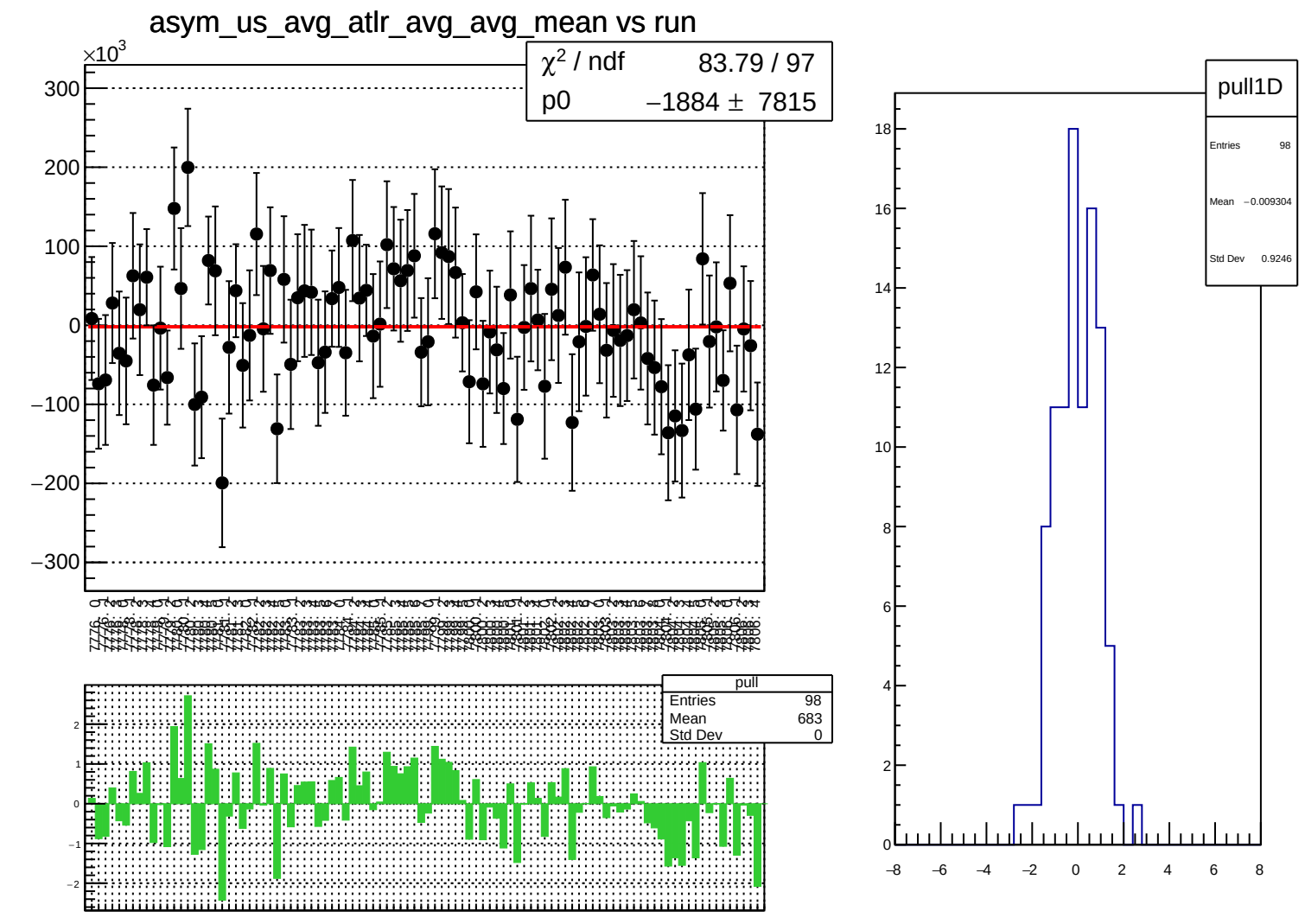

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 6480 / 97
p0 7544 ± 5.422
9000
8500
8000
7500
7000

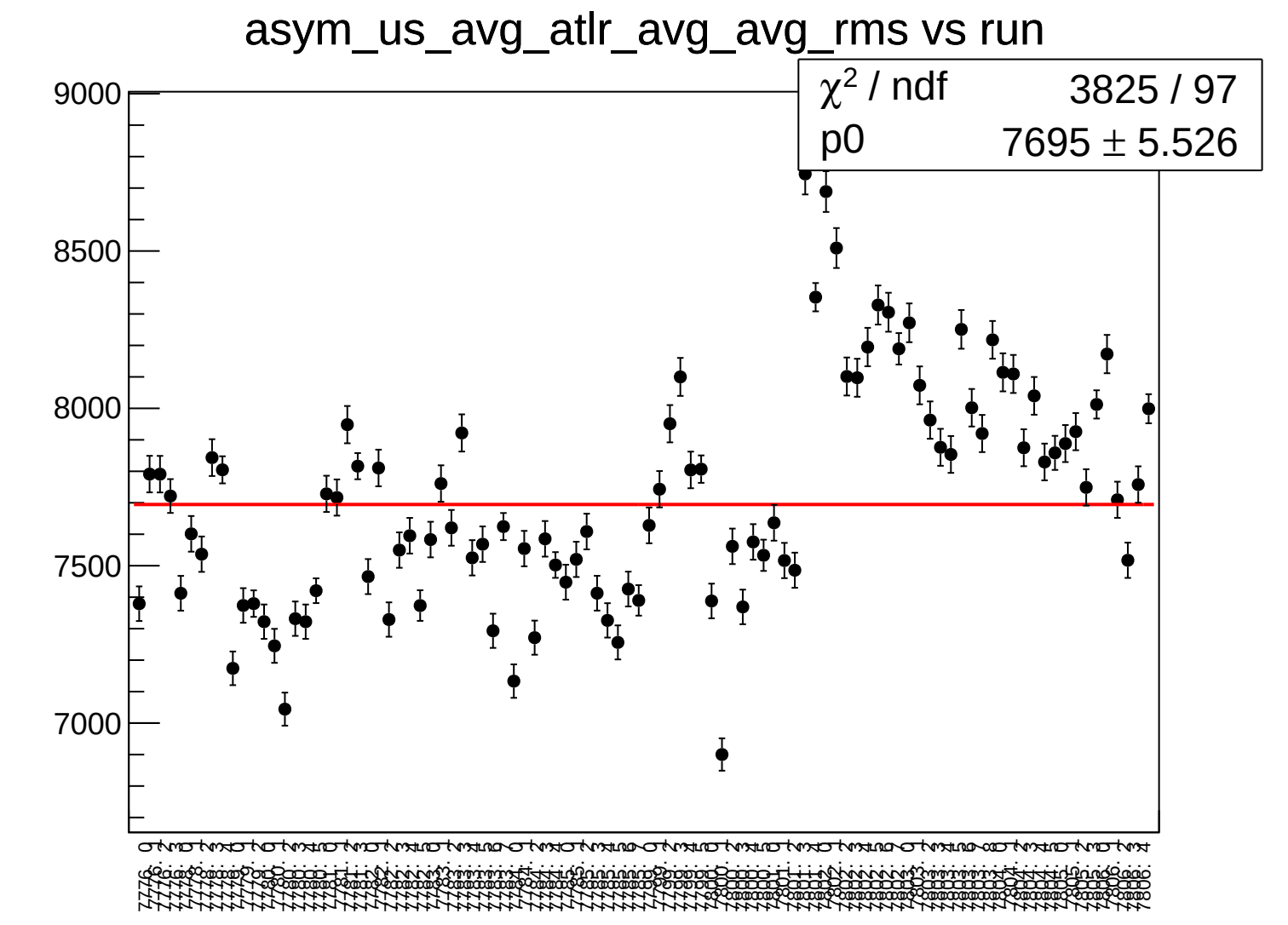

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.91 / 97
p0 4713 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 3572
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.001105
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

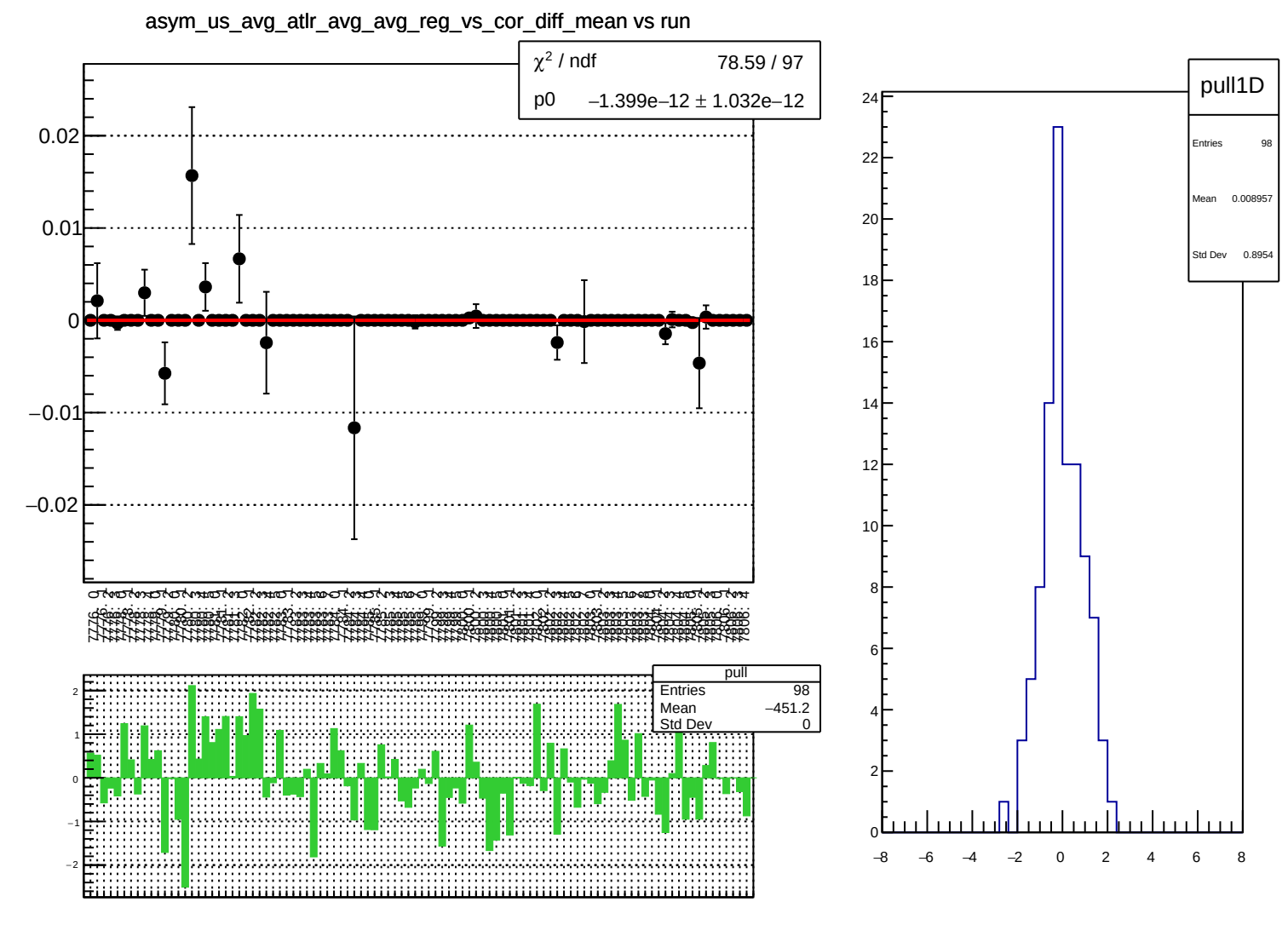

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 341.9 / 97
p0 1847 ± 1.325
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

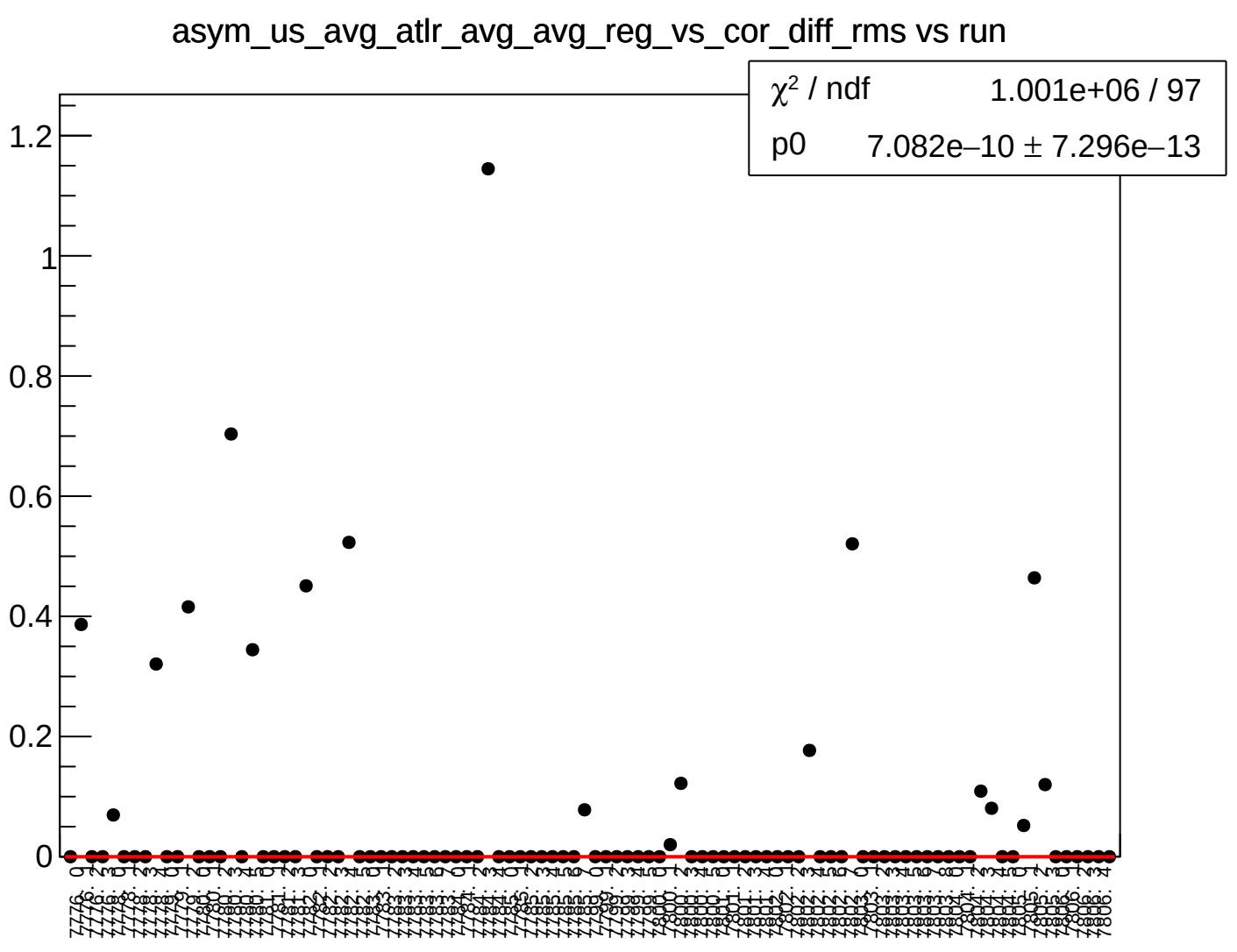

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.16 / 97
p0 6164 ± 7668
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 451.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.0122
Std Dev 0.9156
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

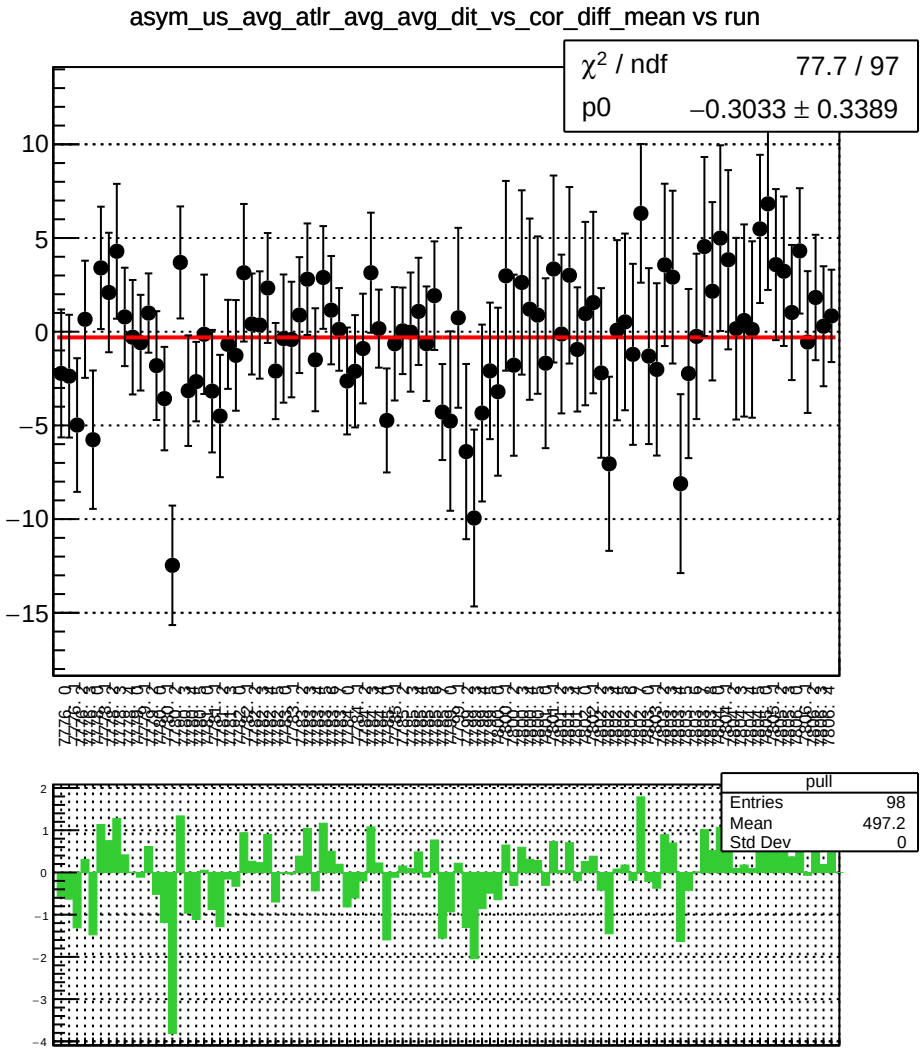

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 6480 / 97
p0 7544 ± 5.422
9000
8500
8000
7500
7000

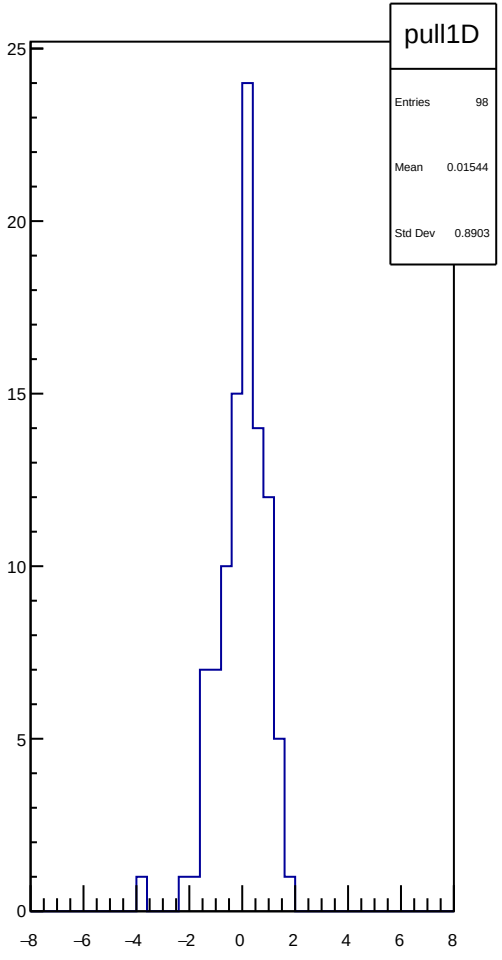

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 83.79 / 97
p0 −1884 ± 7815
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 683
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.009304
Std Dev 0.9246
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

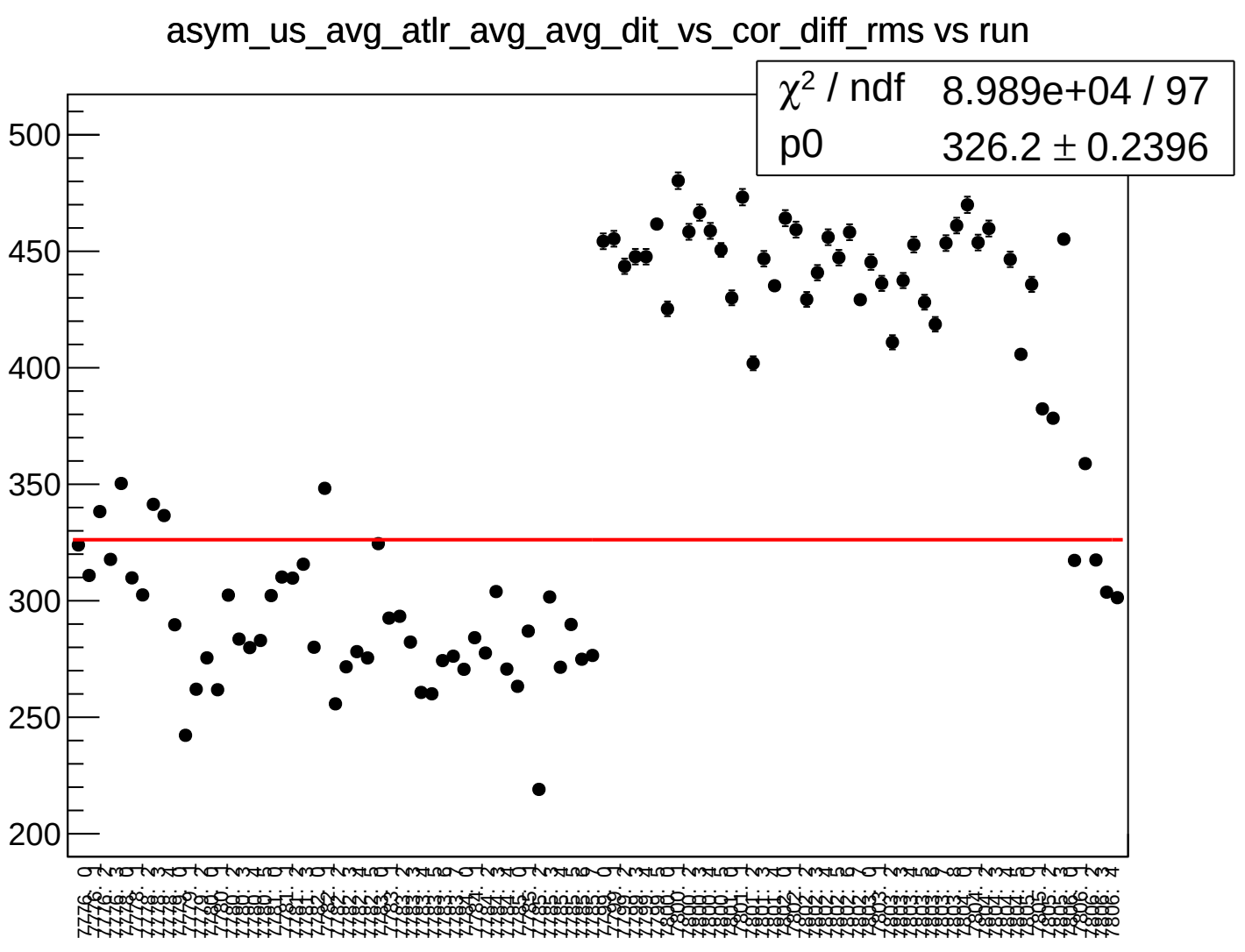

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 3825 / 97
p0 7695 ± 5.526
9000
8500
8000
7500
7000

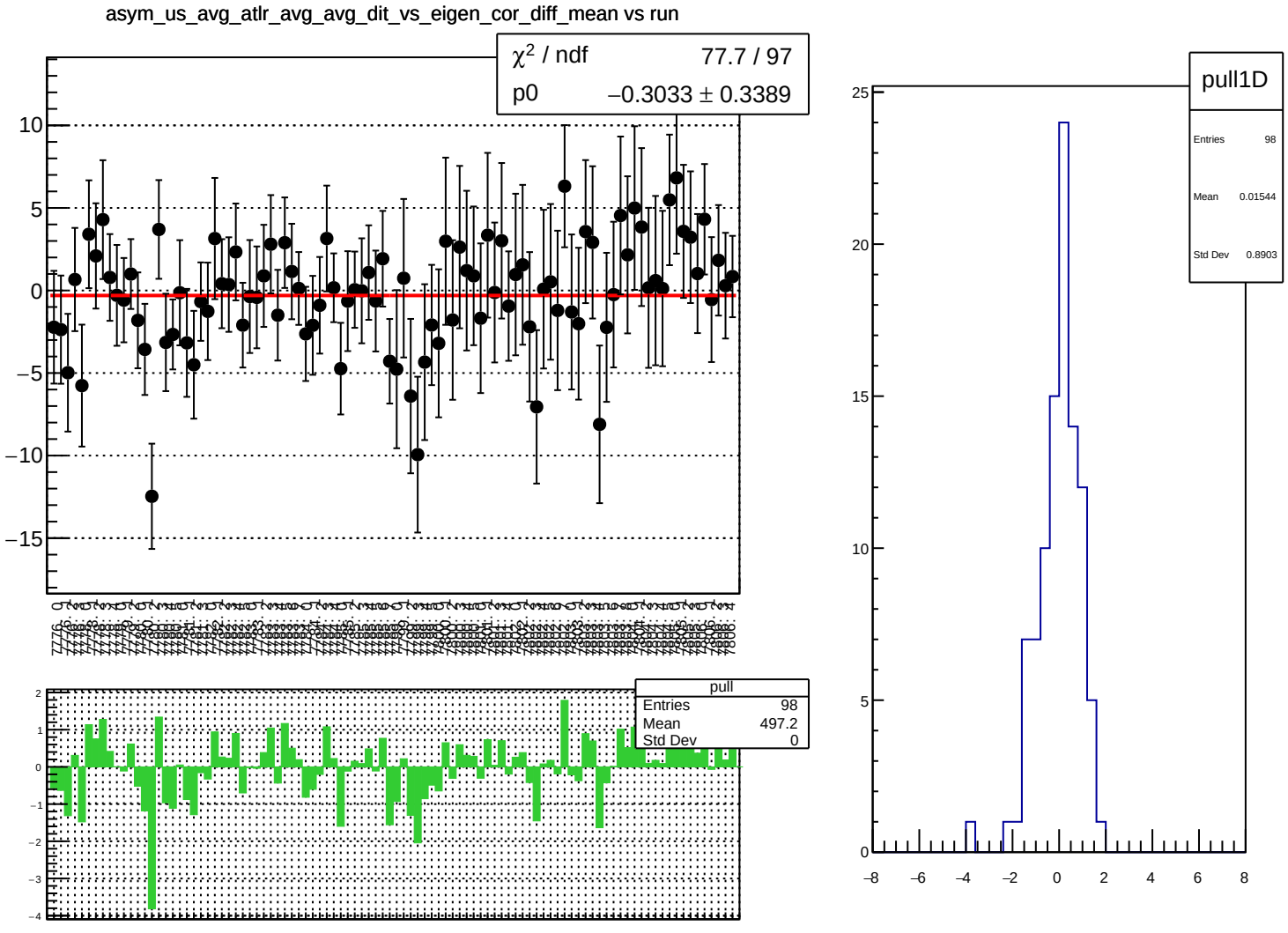

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.59 / 97
p0 −1.399e−12 ± 1.032e−12
0.02
0.01
0
−0.01
−0.02
pull
Entries 98
Mean −451.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.008957
Std Dev 0.8954
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

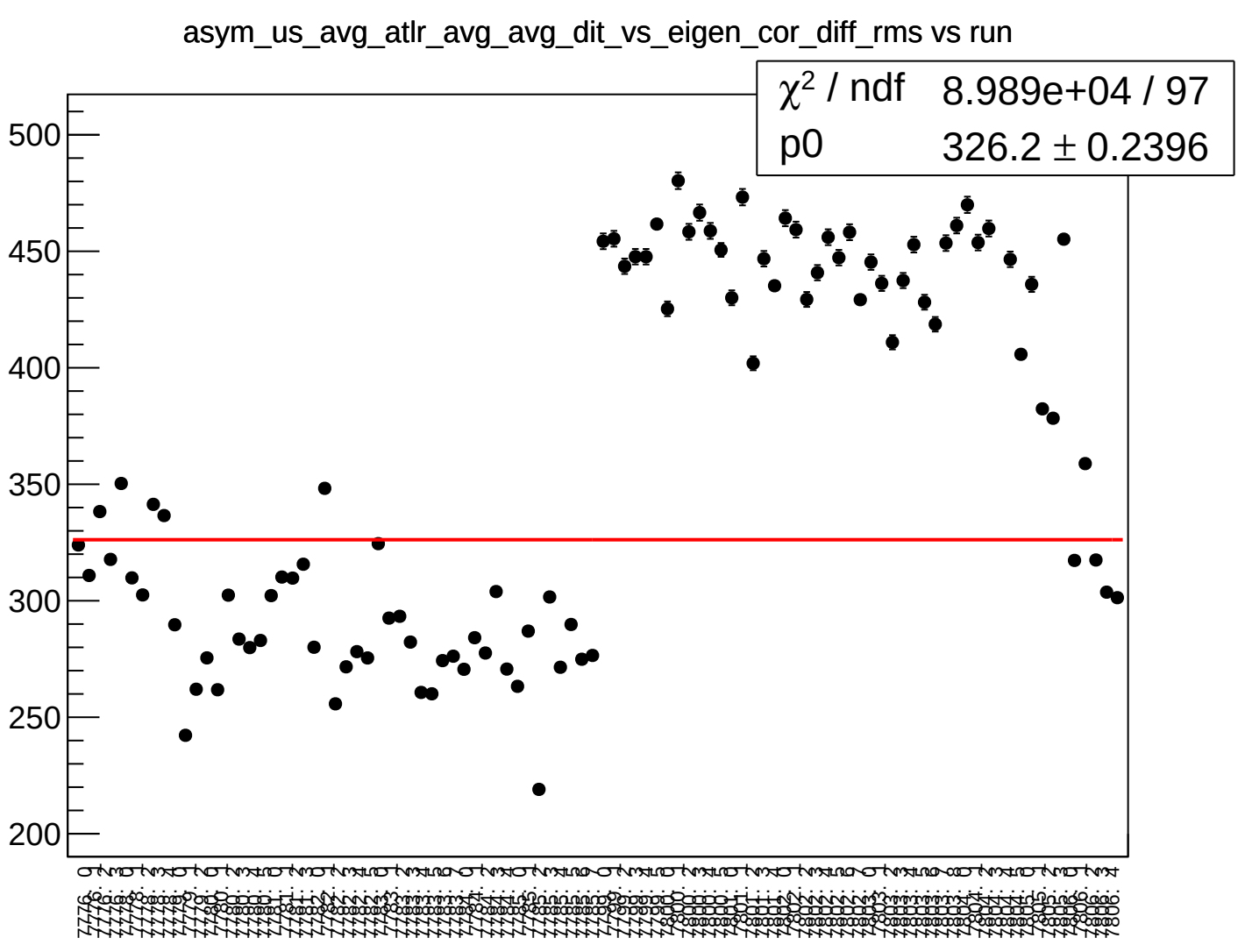

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 97
p0 7.082e−10 ± 7.296e−13
1.2
1
0.8
0.6
0.4
0.2
0

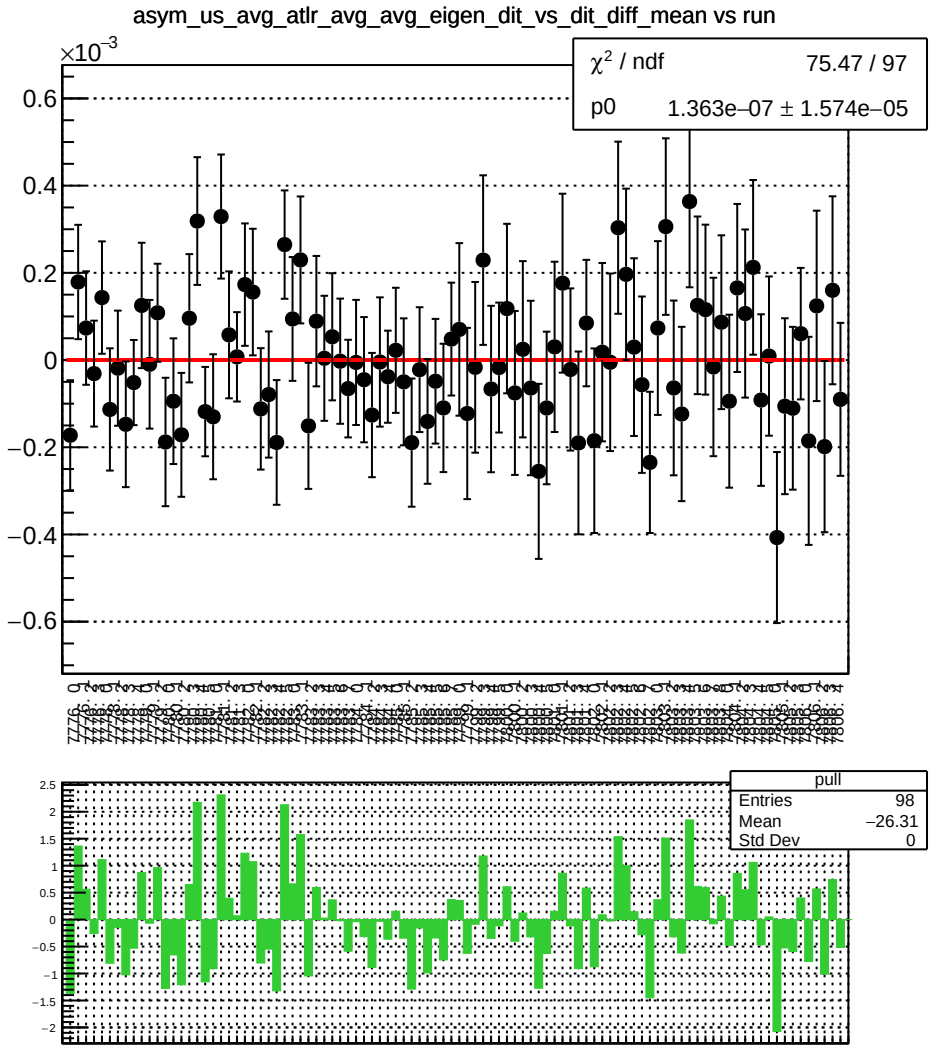

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.7 / 97
p0 −0.3033 ± 0.3389
pull
Entries 98
Mean 497.2
Std Dev 0

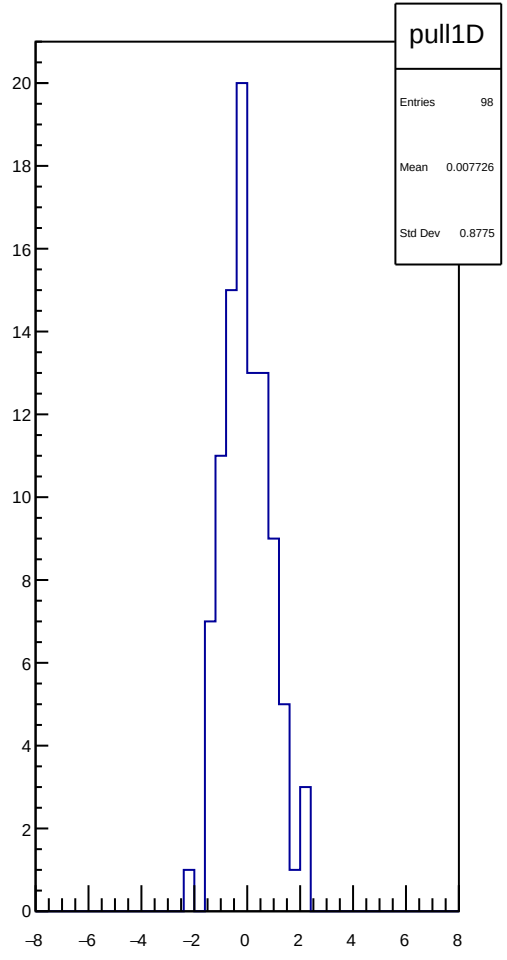

pull1D
Entries 98
Mean 0.01544
Std Dev 0.8903

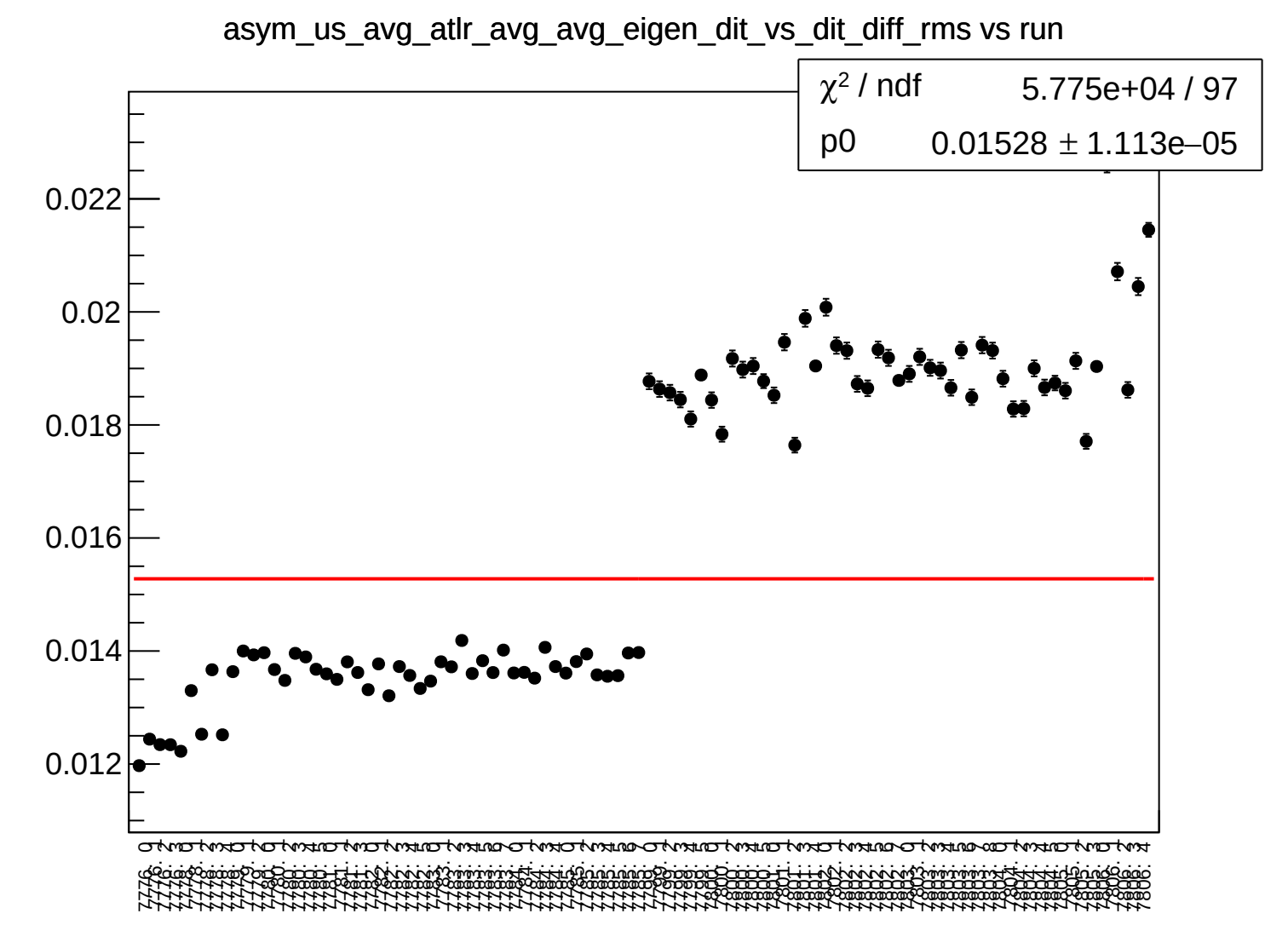

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.989e+04 / 97
p0 326.2 ± 0.2396
500
450
400
350
300
250
200

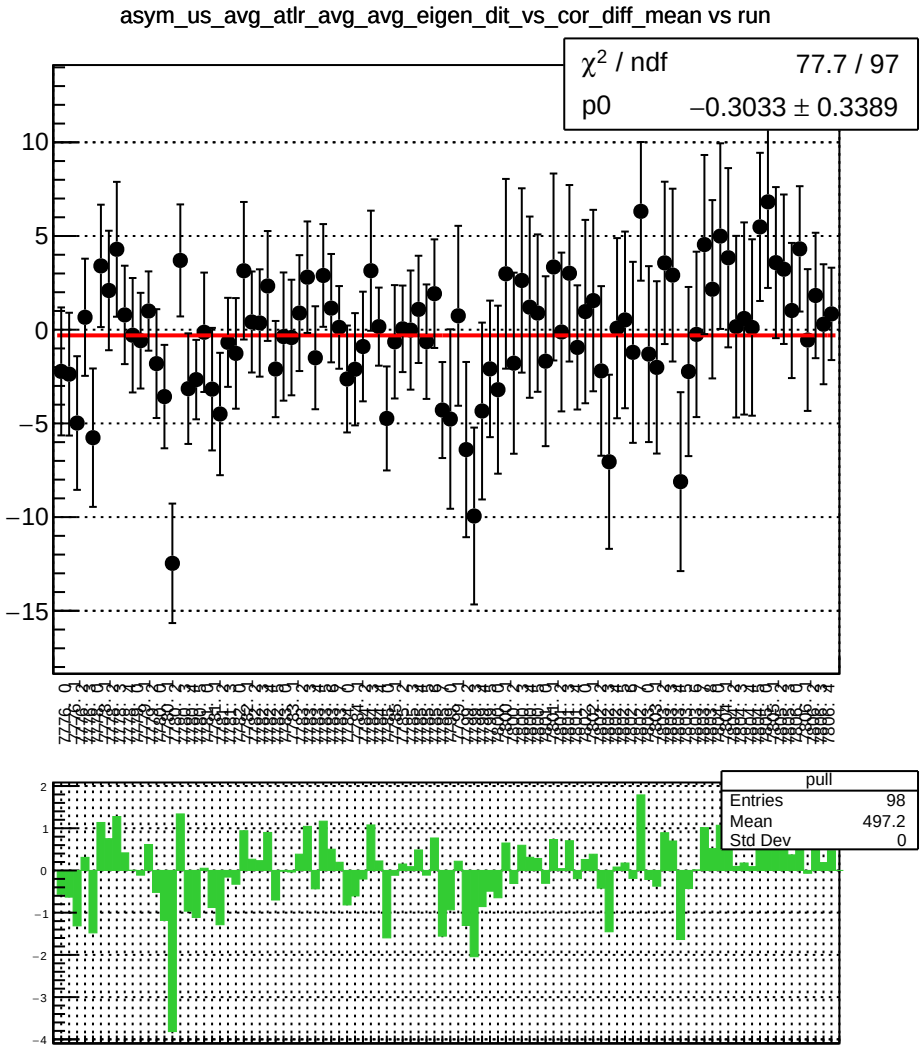

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.7 / 97
p0 −0.3033 ± 0.3389
pull
Entries 98
Mean 497.2
Std Dev 0
pull1D
Entries 98
Mean 0.01544
Std Dev 0.8903

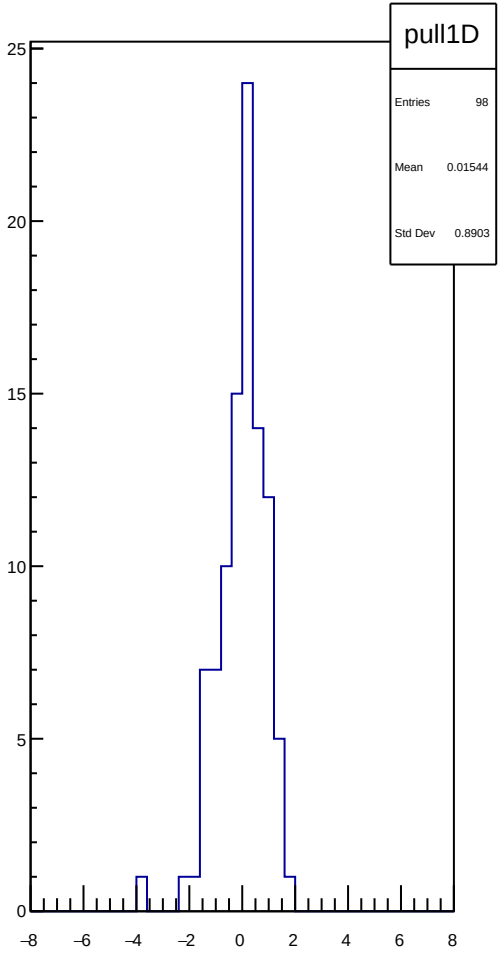

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.989e+04 / 97
p0 326.2 ± 0.2396
500
450
400
350
300
250
200

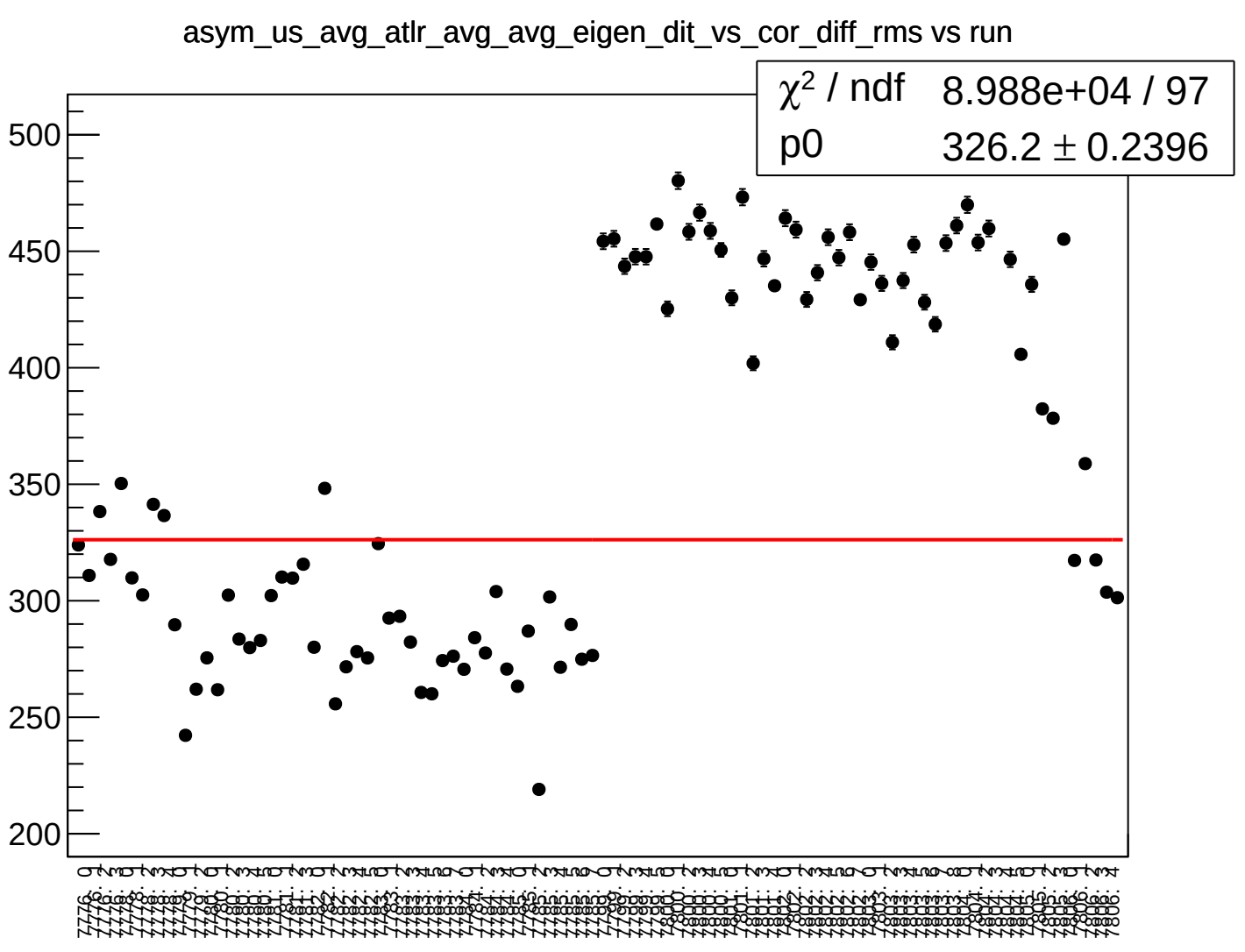

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.47 / 97
p0 1.363e−07 ± 1.574e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 98
Mean −26.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

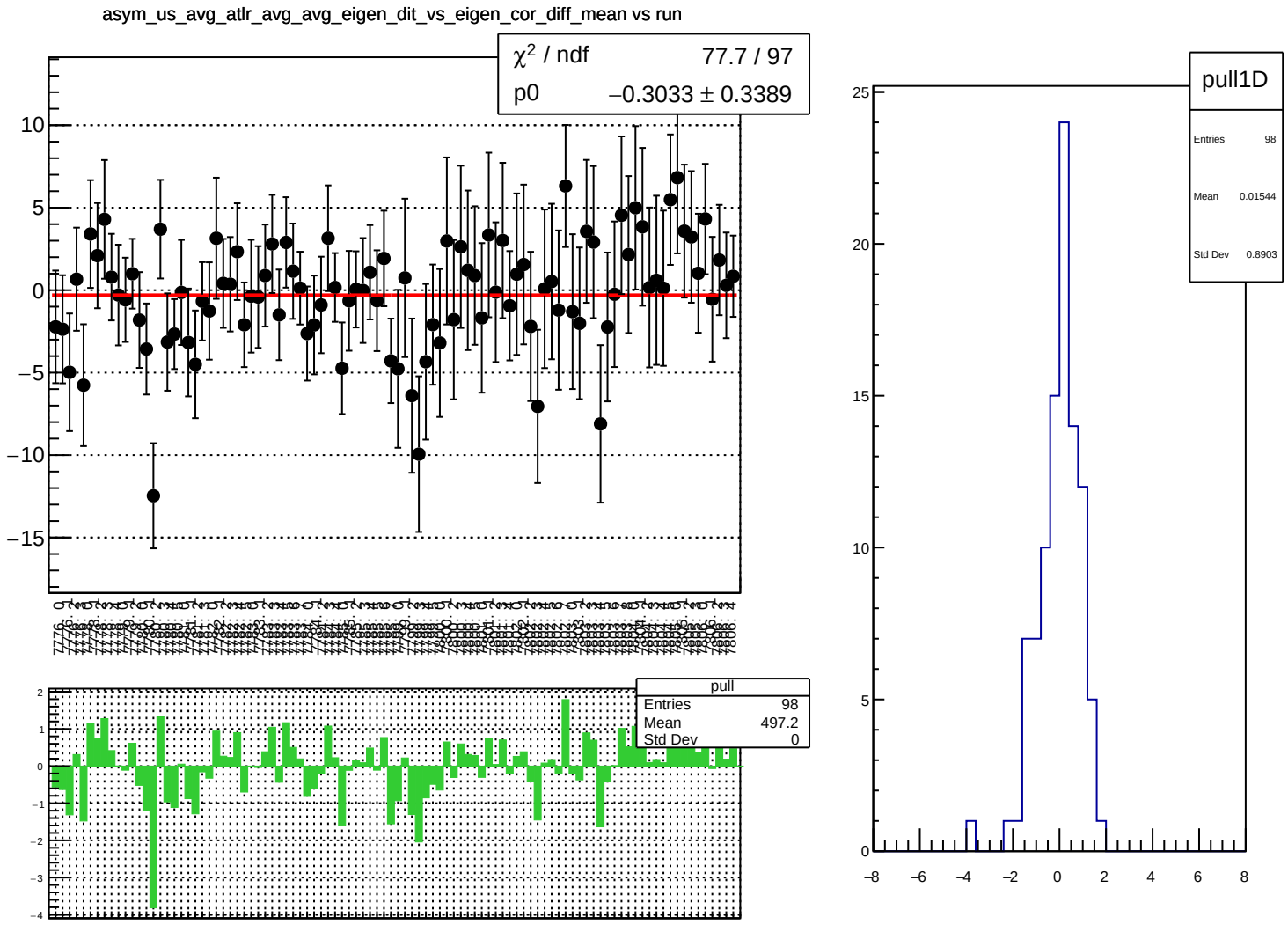

pull1D
Entries 98
Mean 0.007726
Std Dev 0.8775
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

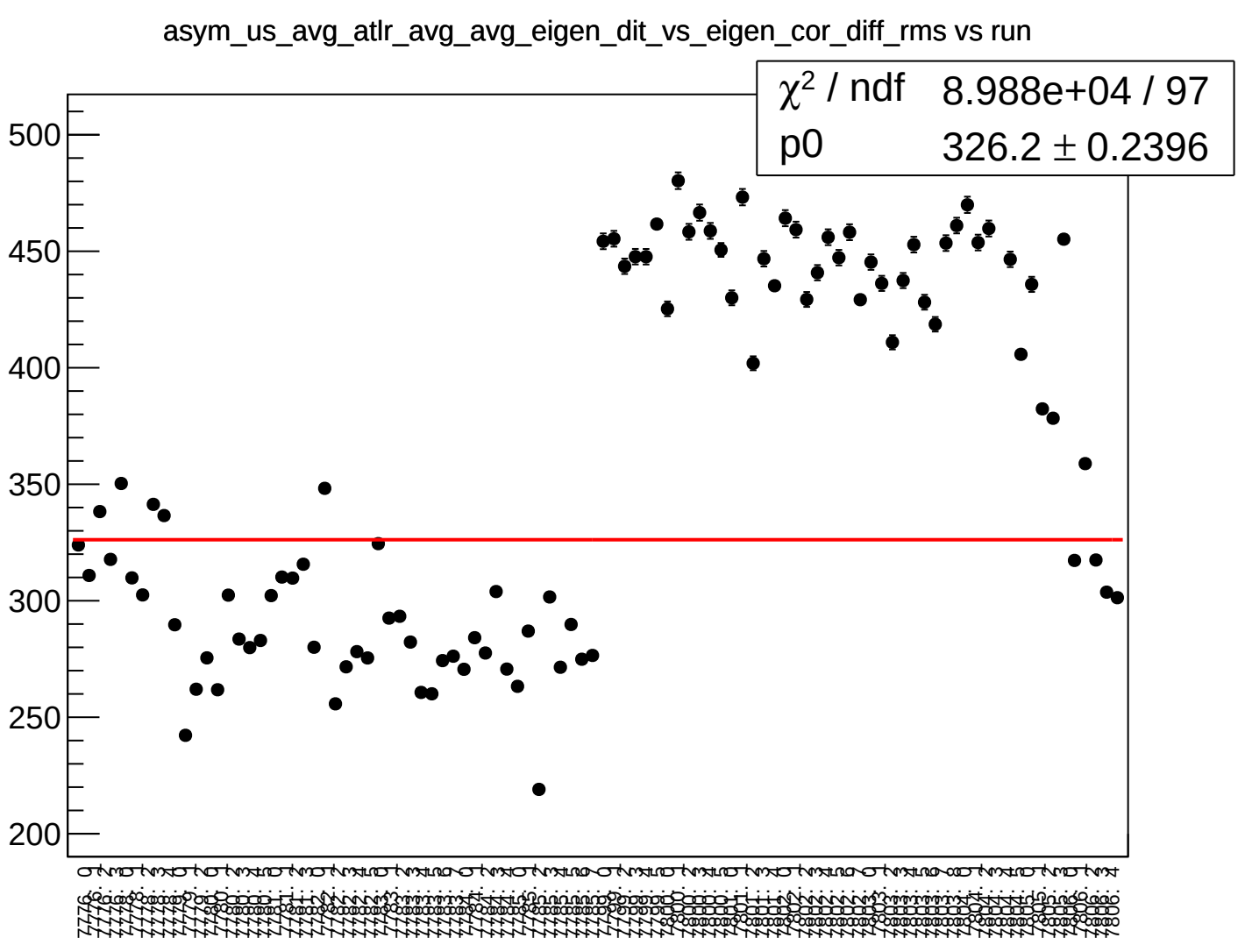

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.775e+04 / 97
p0 0.01528 ± 1.113e−05
0.022
0.02
0.018
0.016
0.014
0.012

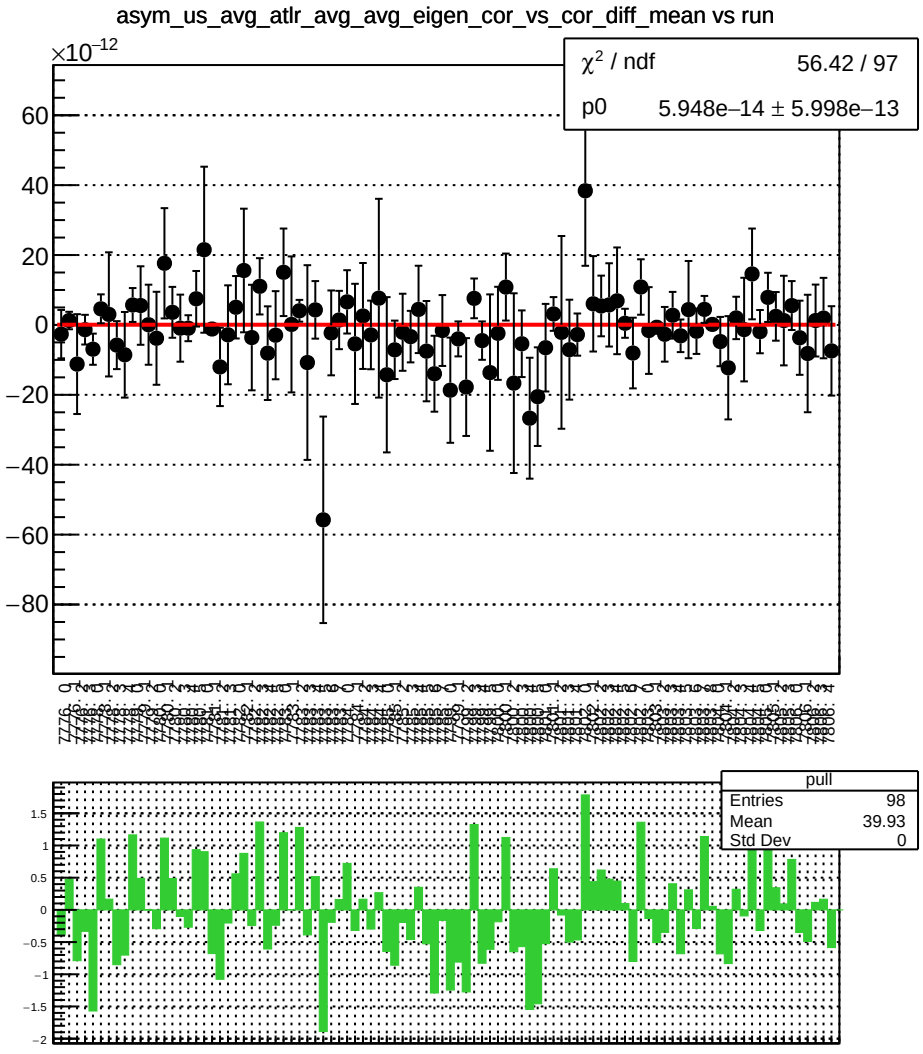

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.7 / 97
p0 −0.3033 ± 0.3389
pull
Entries 98
Mean 497.2
Std Dev 0

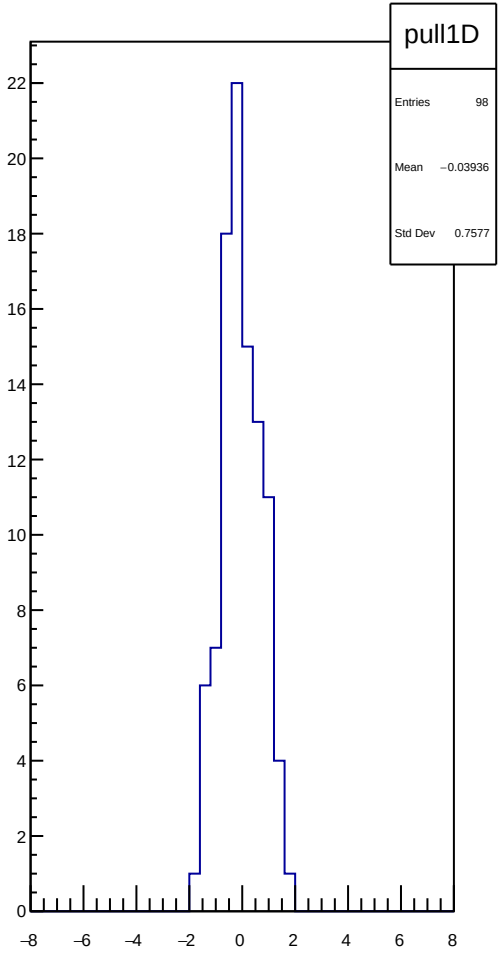

pull1D
Entries 98
Mean 0.01544
Std Dev 0.8903

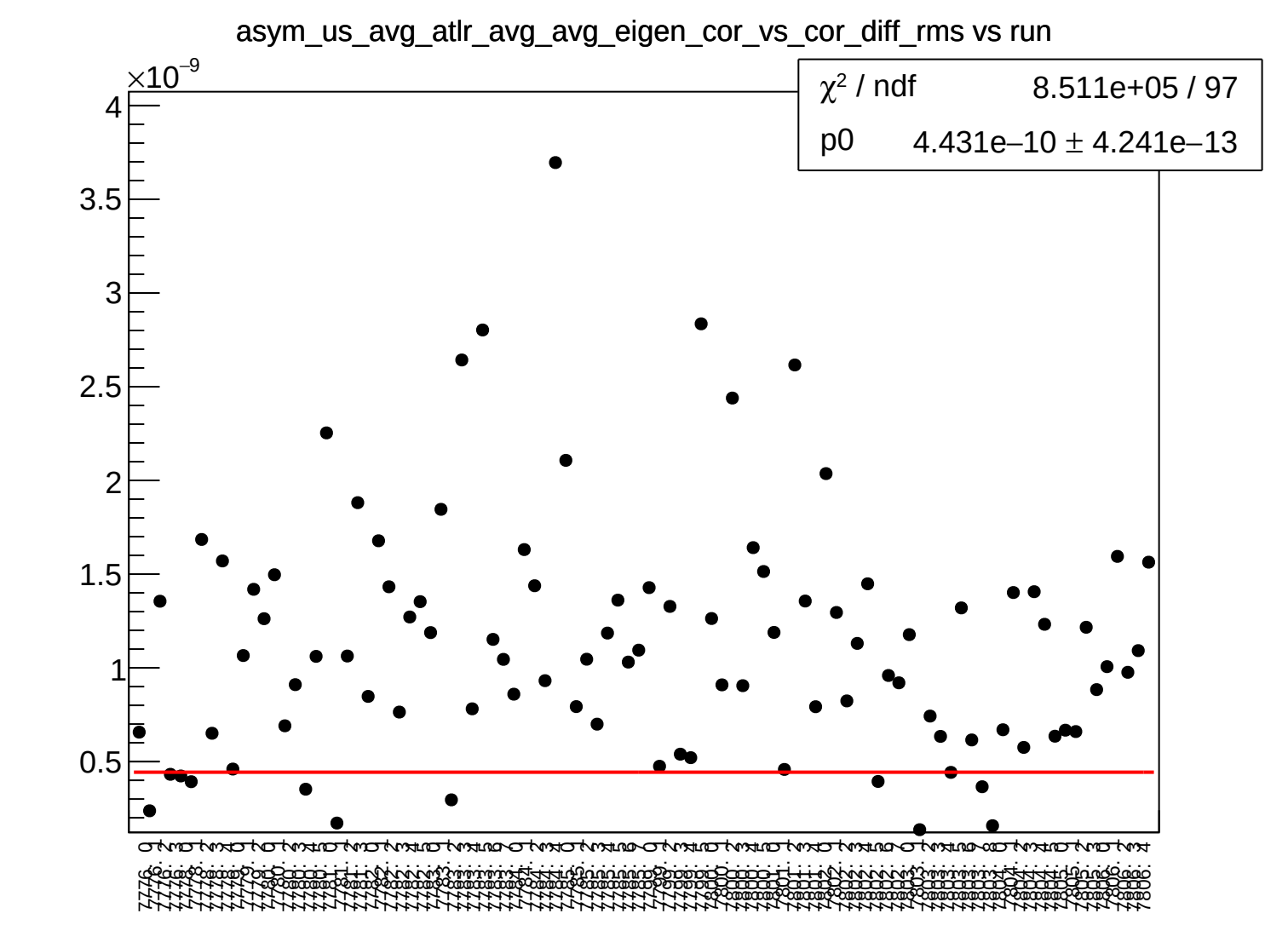

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.988e+04 / 97
p0 326.2 ± 0.2396
500
450
400
350
300
250
200

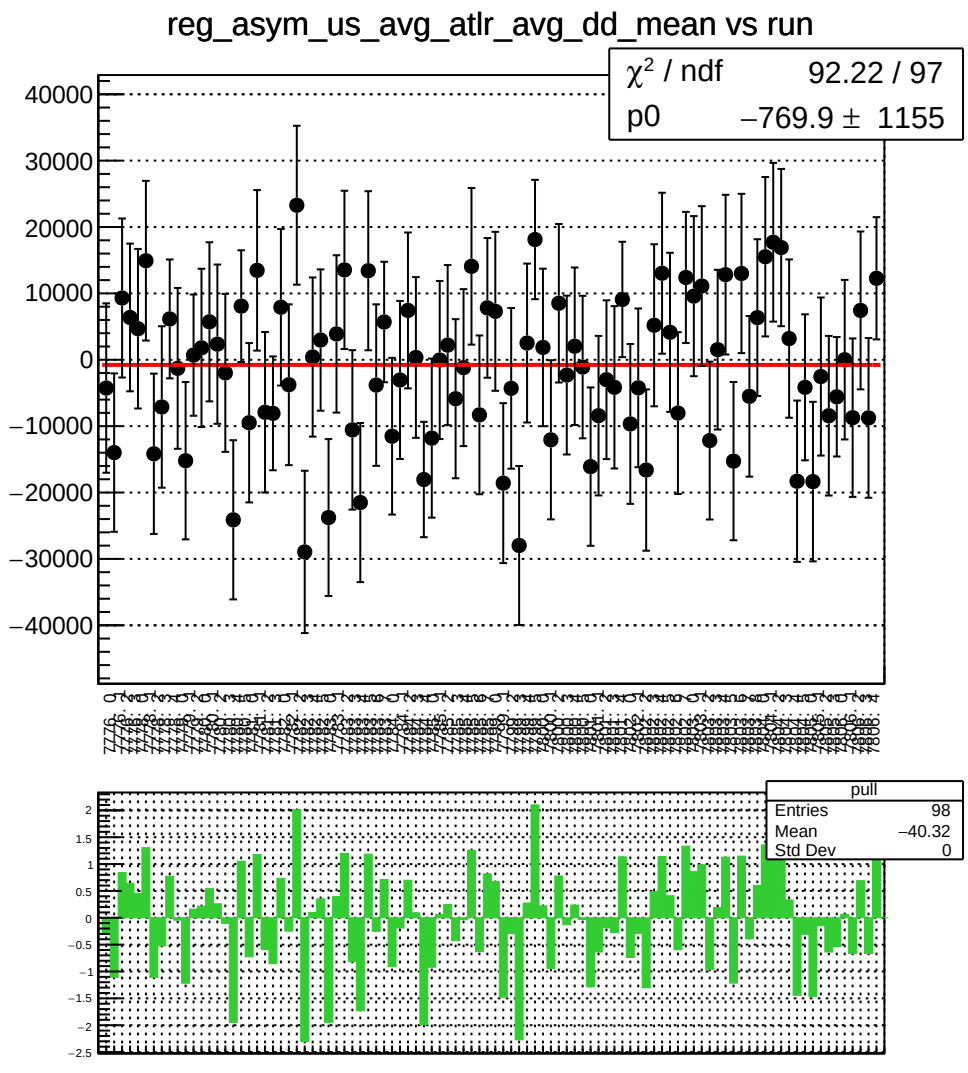

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.7 / 97
p0 −0.3033 ± 0.3389
pull
Entries 98
Mean 497.2
Std Dev 0
pull1D
Entries 98
Mean 0.01544
Std Dev 0.8903

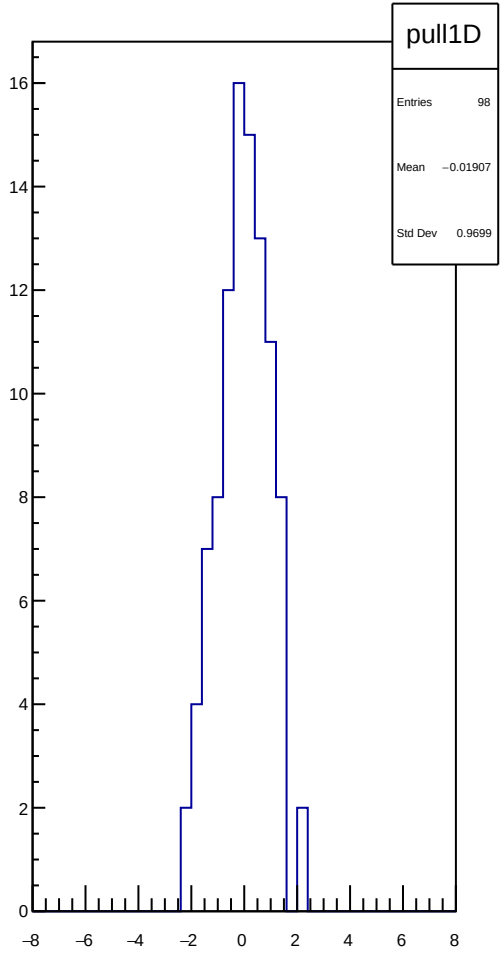

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.988e+04 / 97
p0 326.2 ± 0.2396
500
450
400
350
300
250
200

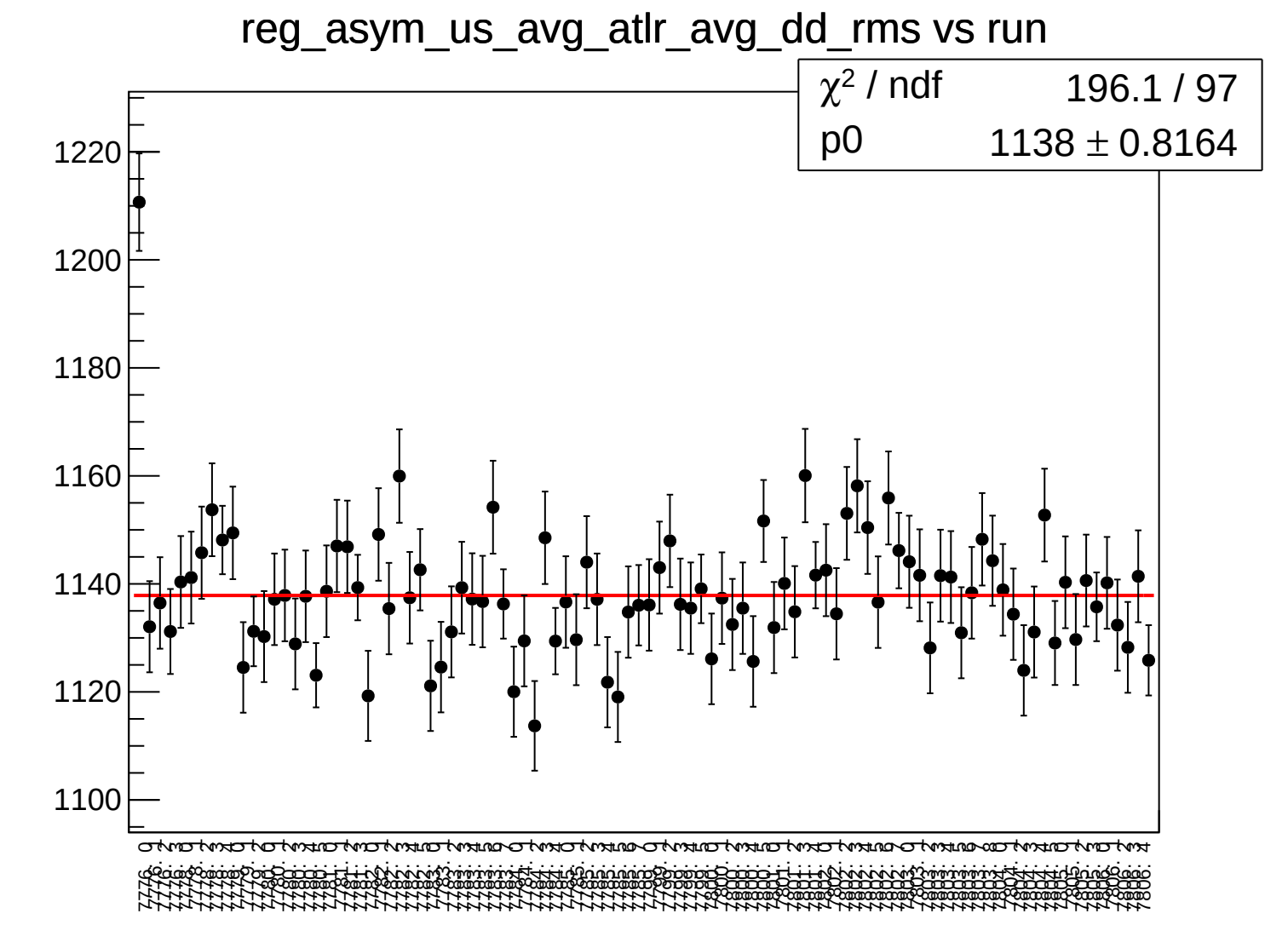

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.42 / 97
p0 5.948e−14 ± 5.998e−13
pull
Entries 98
Mean 39.93
Std Dev 0

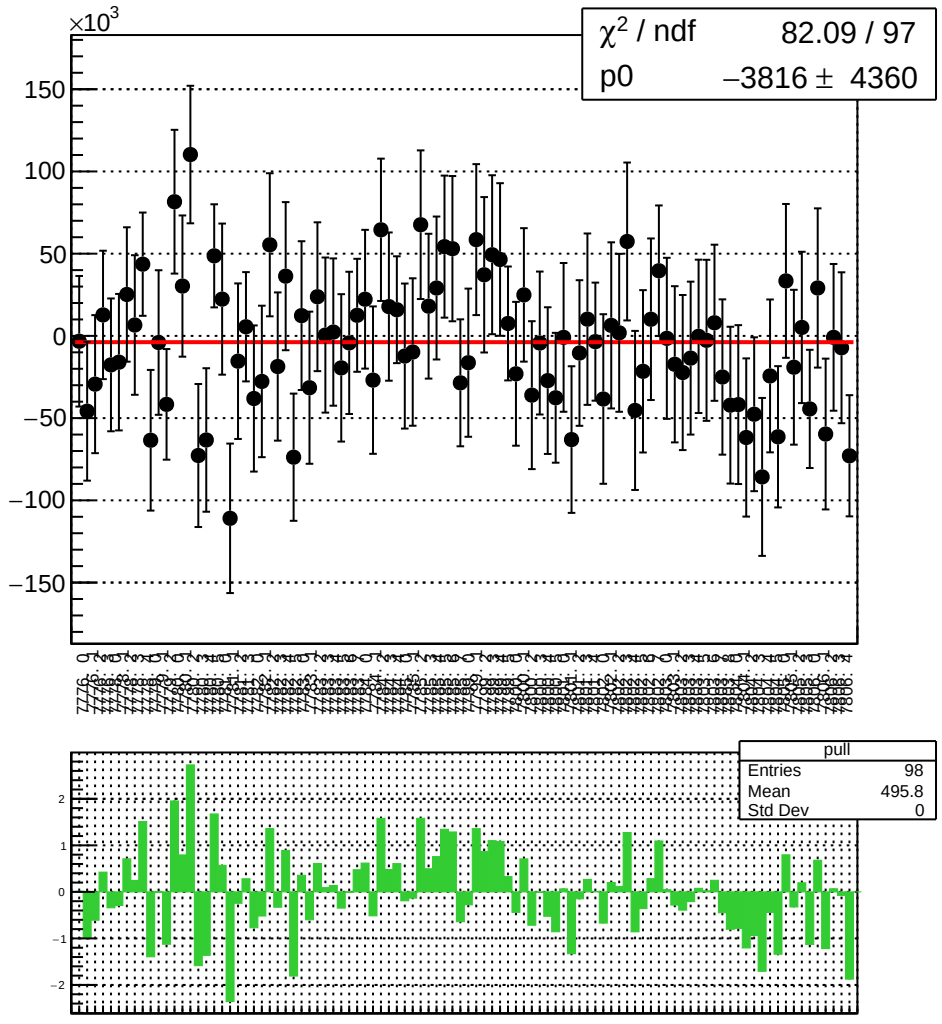

pull1D
Entries 98
Mean −0.03936
Std Dev 0.7577

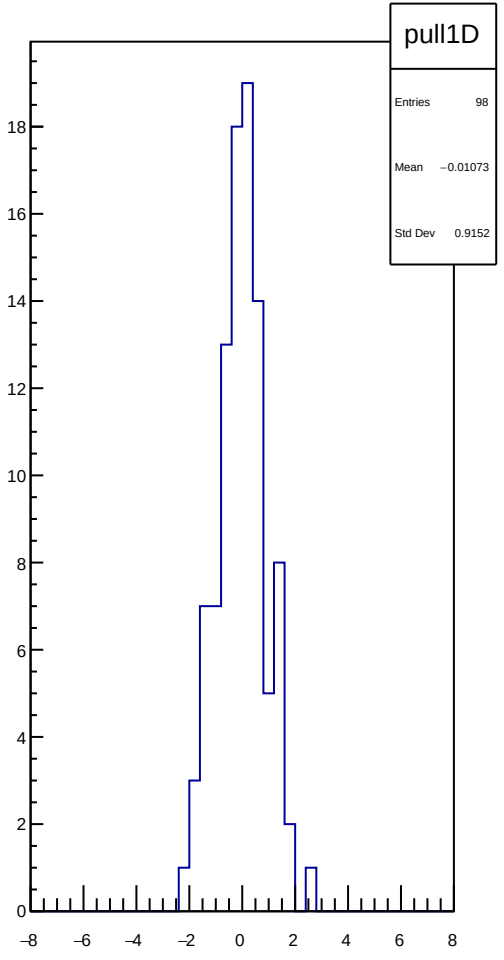

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.511e+05 / 97
p0 4.431e−10 ± 4.241e−13
4
3.5
3
2.5
2
1.5
1
0.5

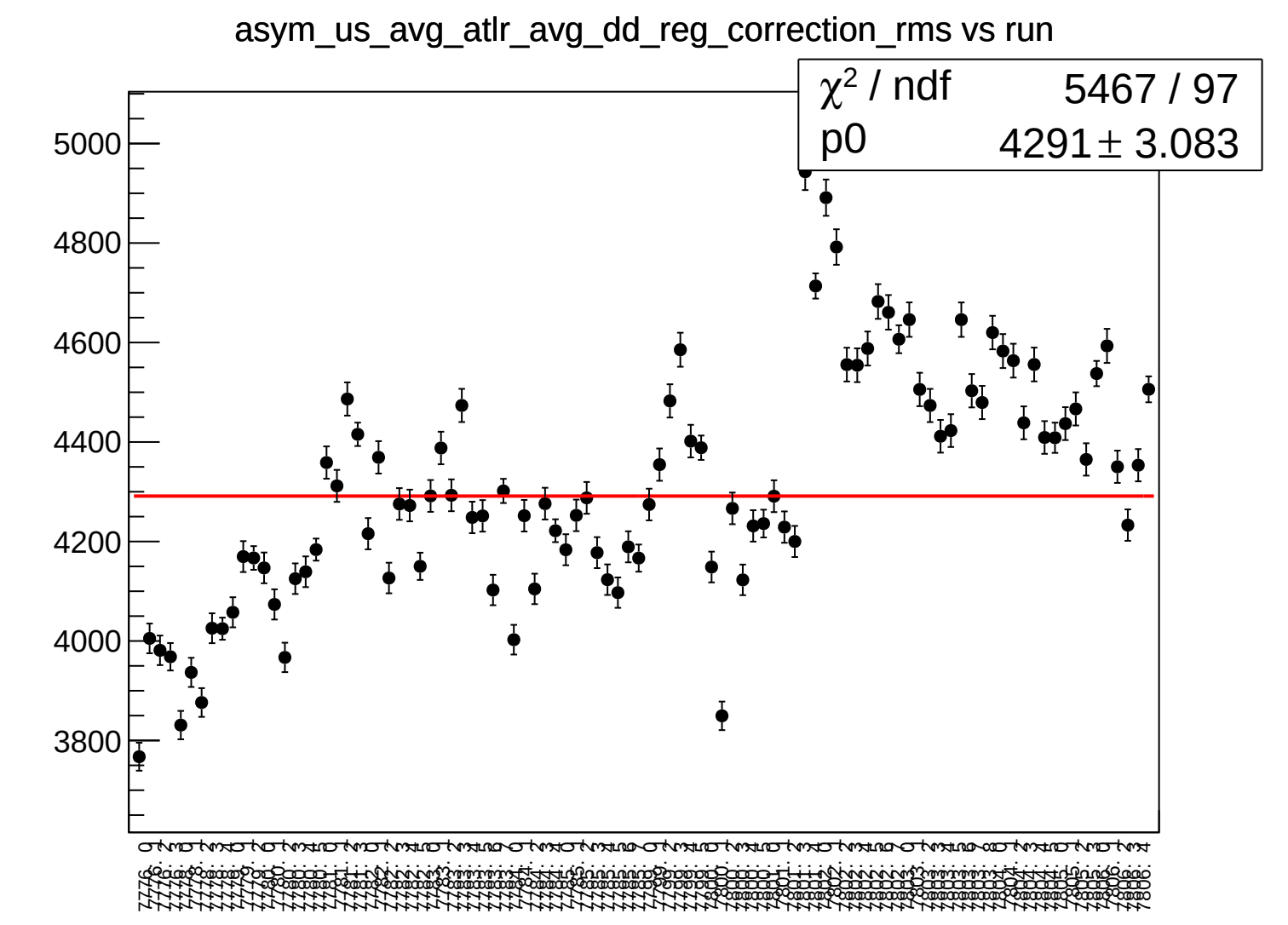

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 92.22 / 97
p0 −769.9 ± 1155
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean −40.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

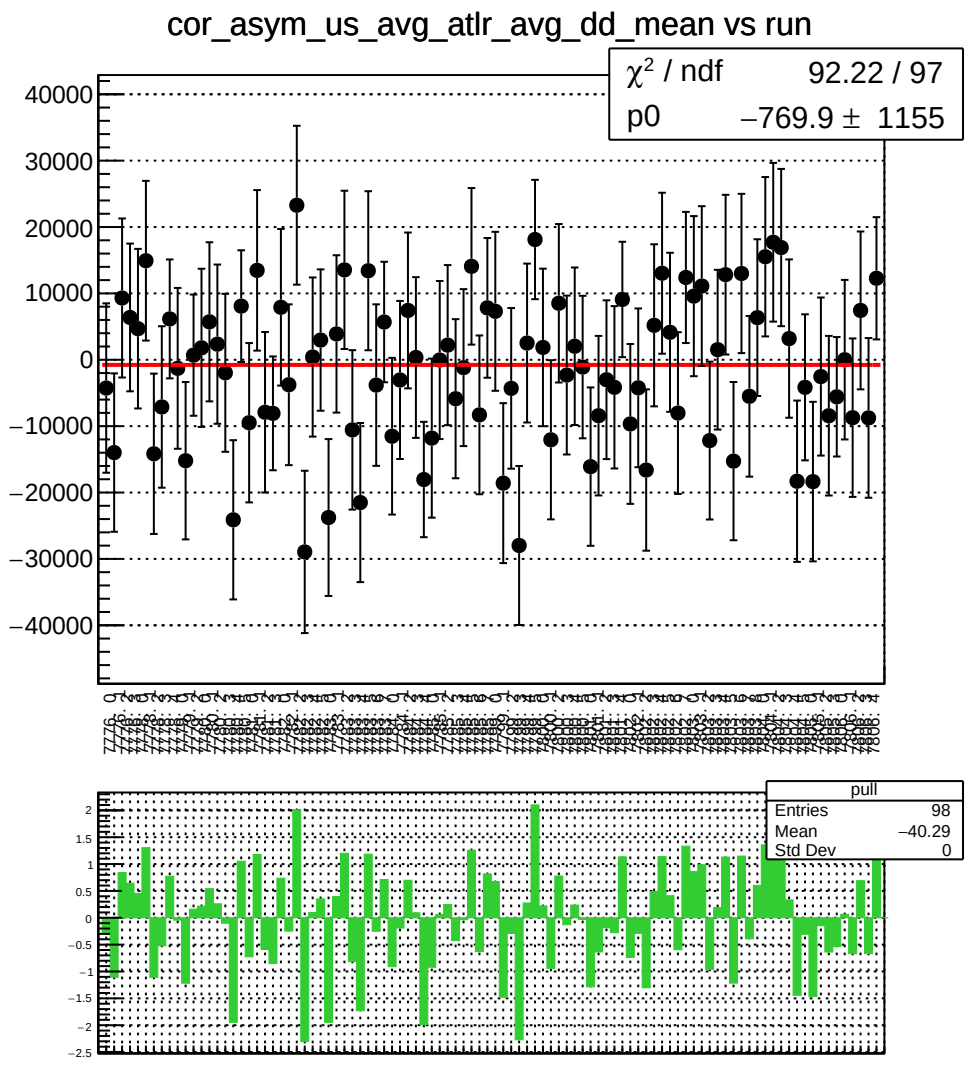

pull1D
Entries 98
Mean −0.01907
Std Dev 0.9699
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

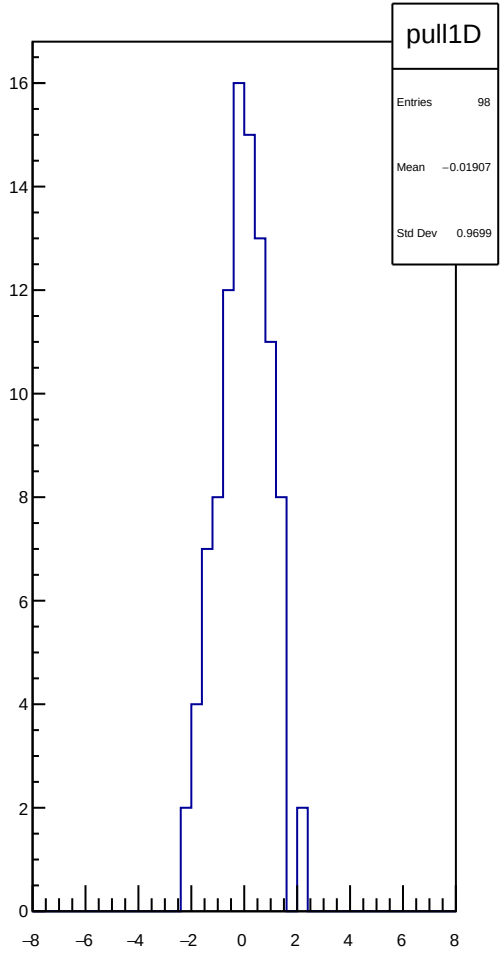

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 196.1 / 97
p0 1138 ± 0.8164
1220
1200
1180
1160
1140
1120
1100

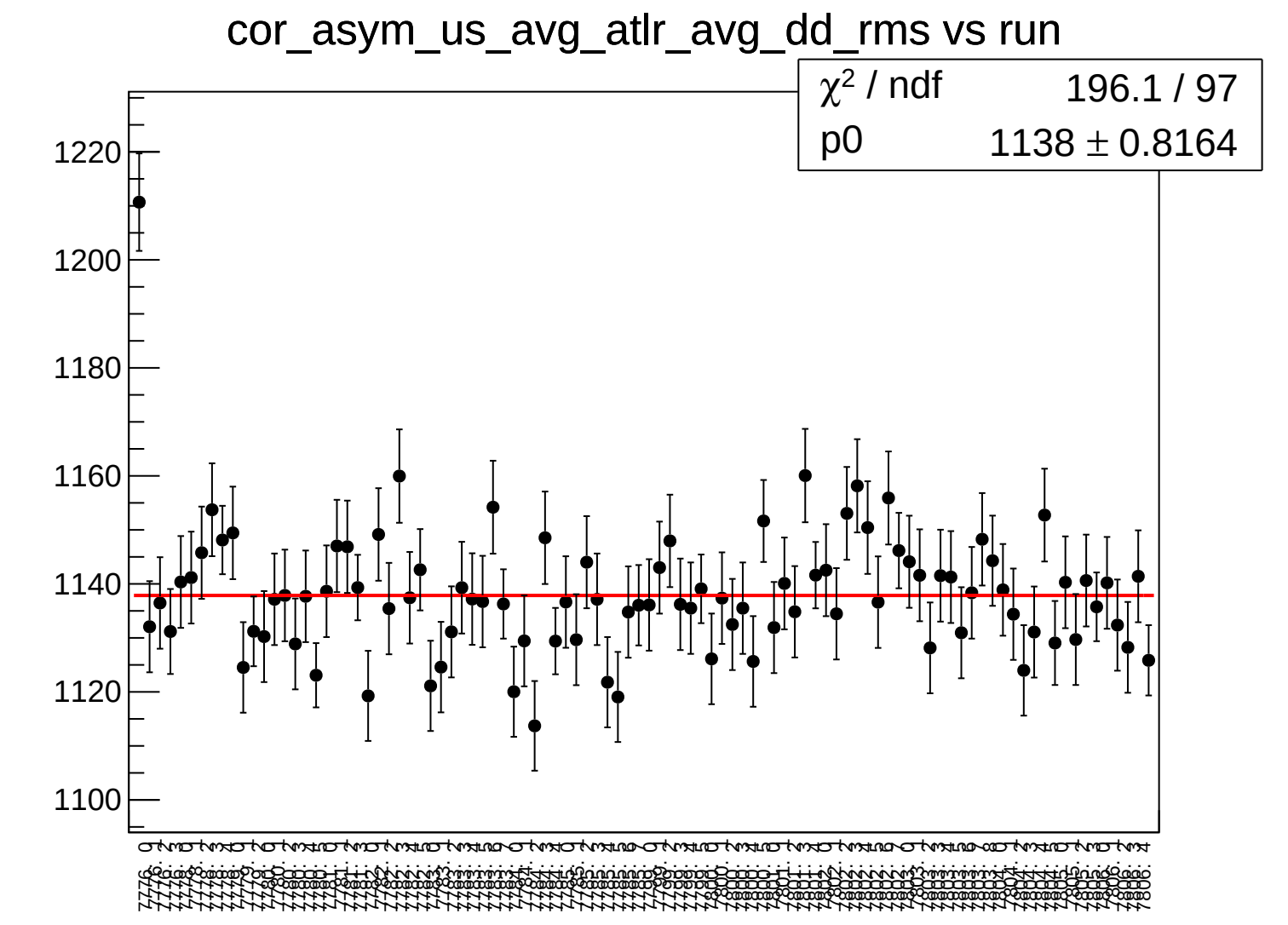

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.09 / 97
p0 −3816 ± 4360
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 495.8
Std Dev 0
2
1
0
−1
−2

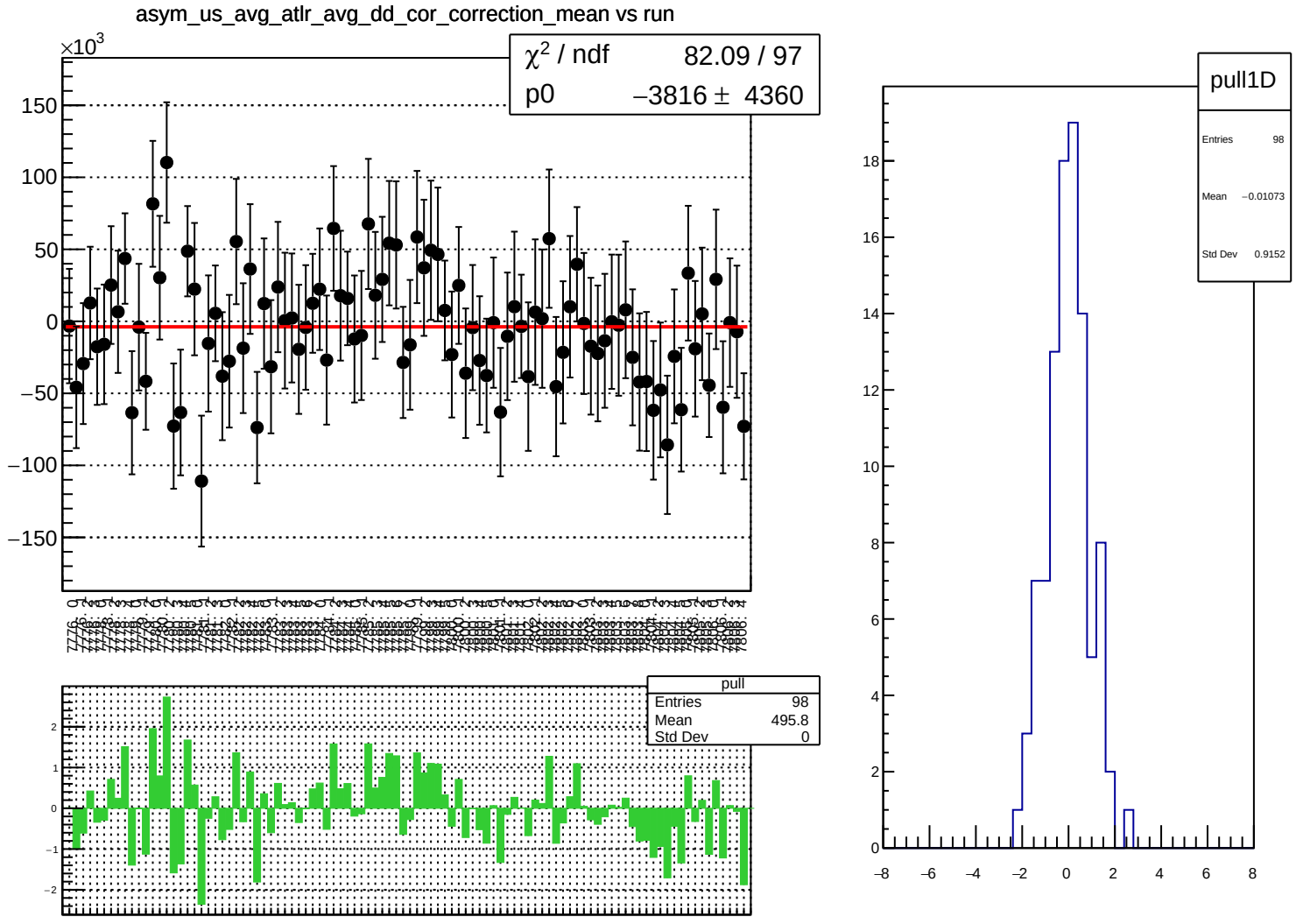

pull1D
Entries 98
Mean −0.01073
Std Dev 0.9152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

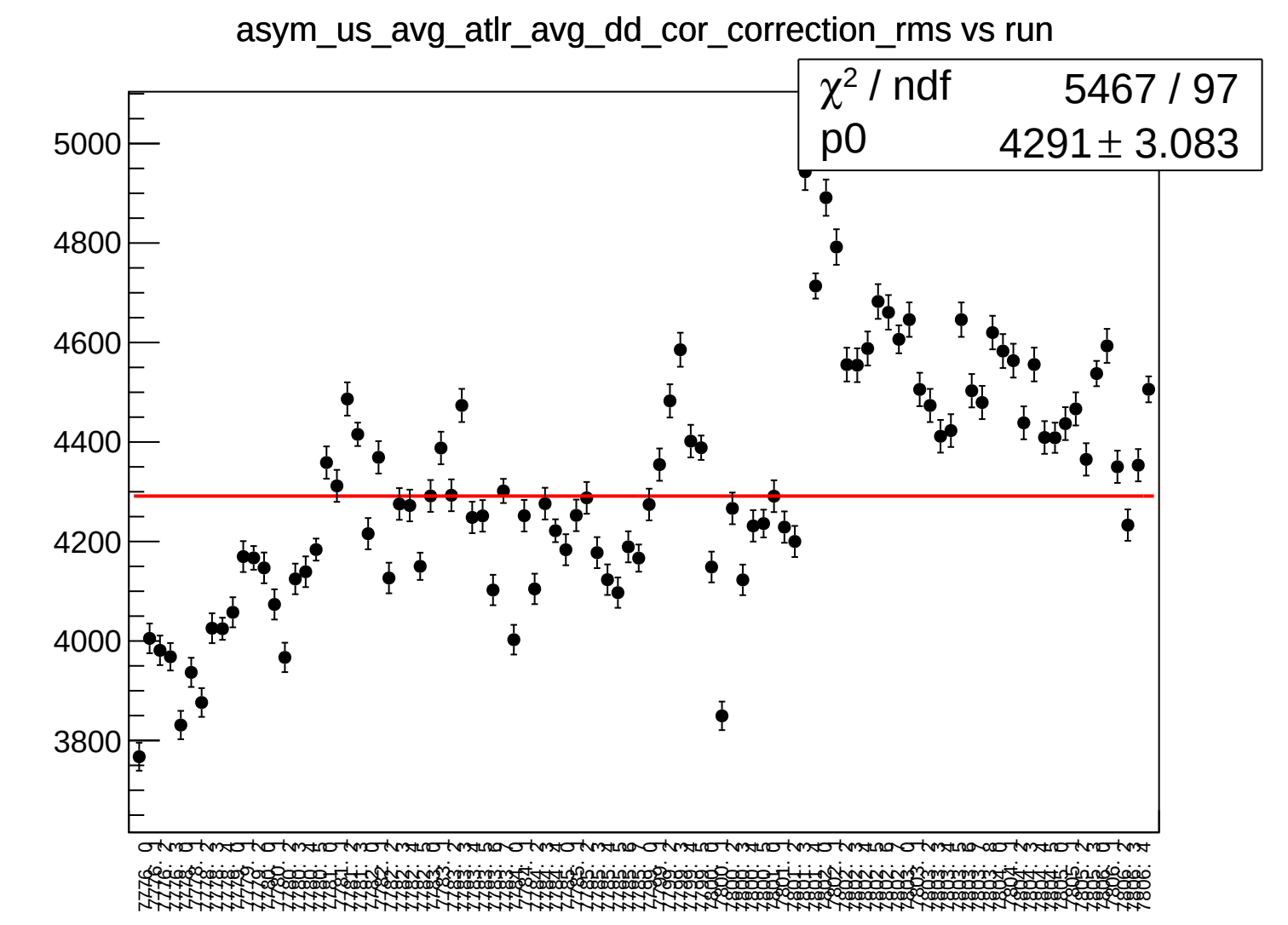

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 5467 / 97
p0 4291 ± 3.083
5000
4800
4600
4400
4200
4000
3800

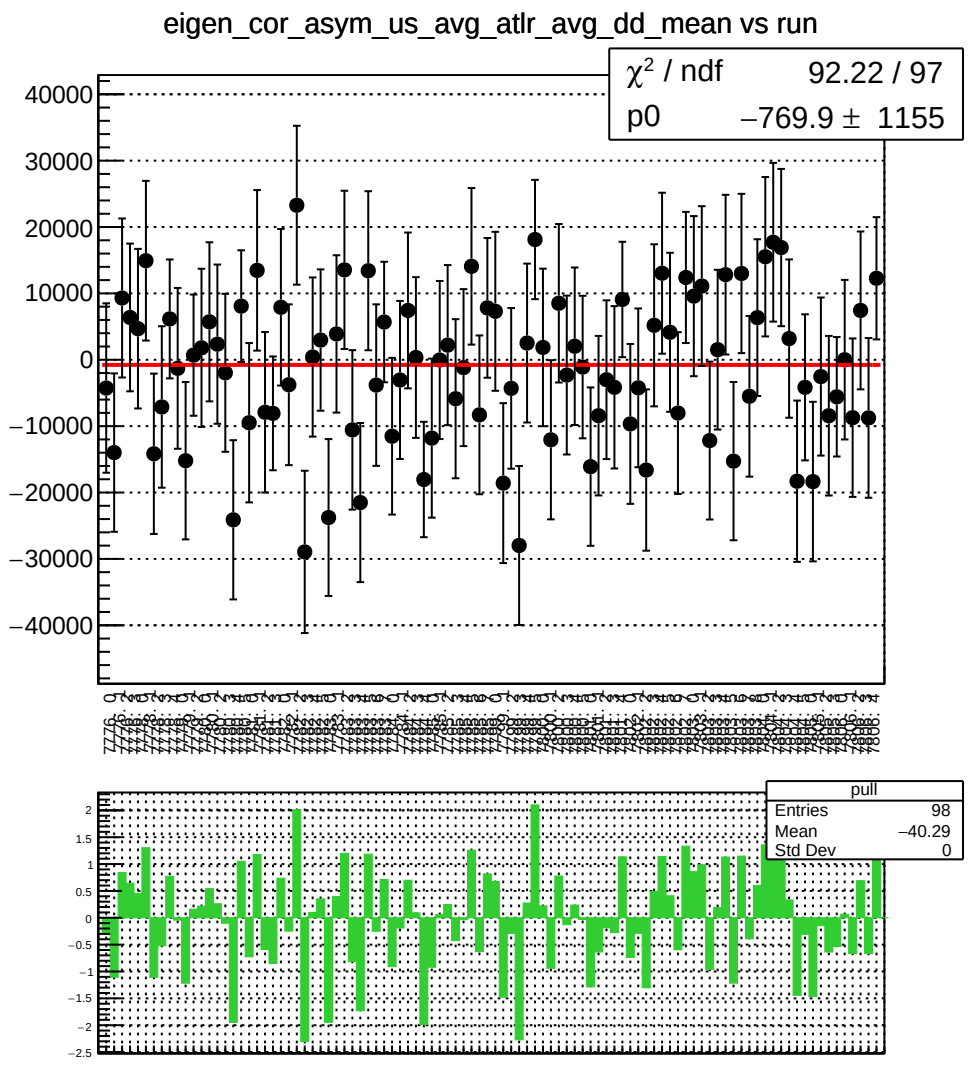

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 92.22 / 97
p0 −769.9 ± 1155
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean −40.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

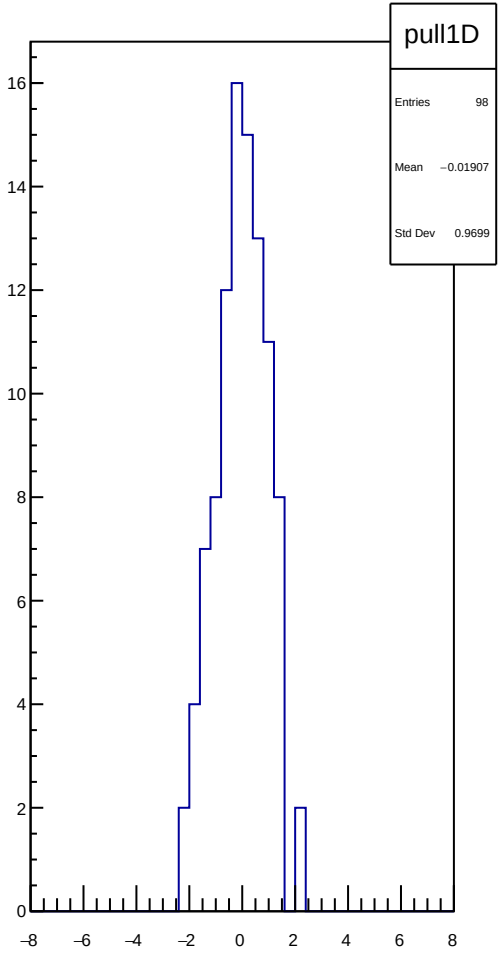

pull1D
Entries 98
Mean −0.01907
Std Dev 0.9699
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

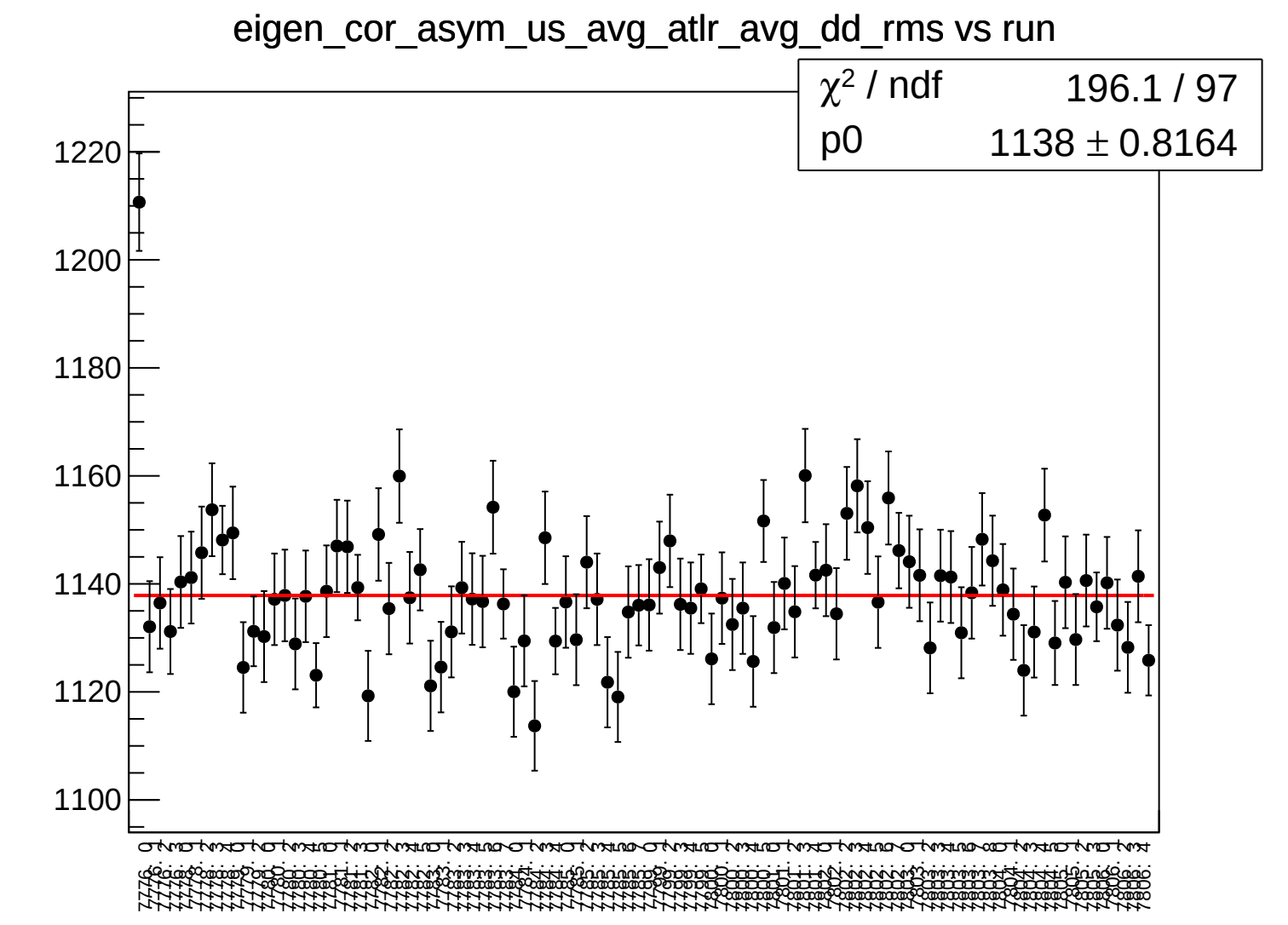

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 196.1 / 97
p0 1138 ± 0.8164
1220
1200
1180
1160
1140
1120
1100

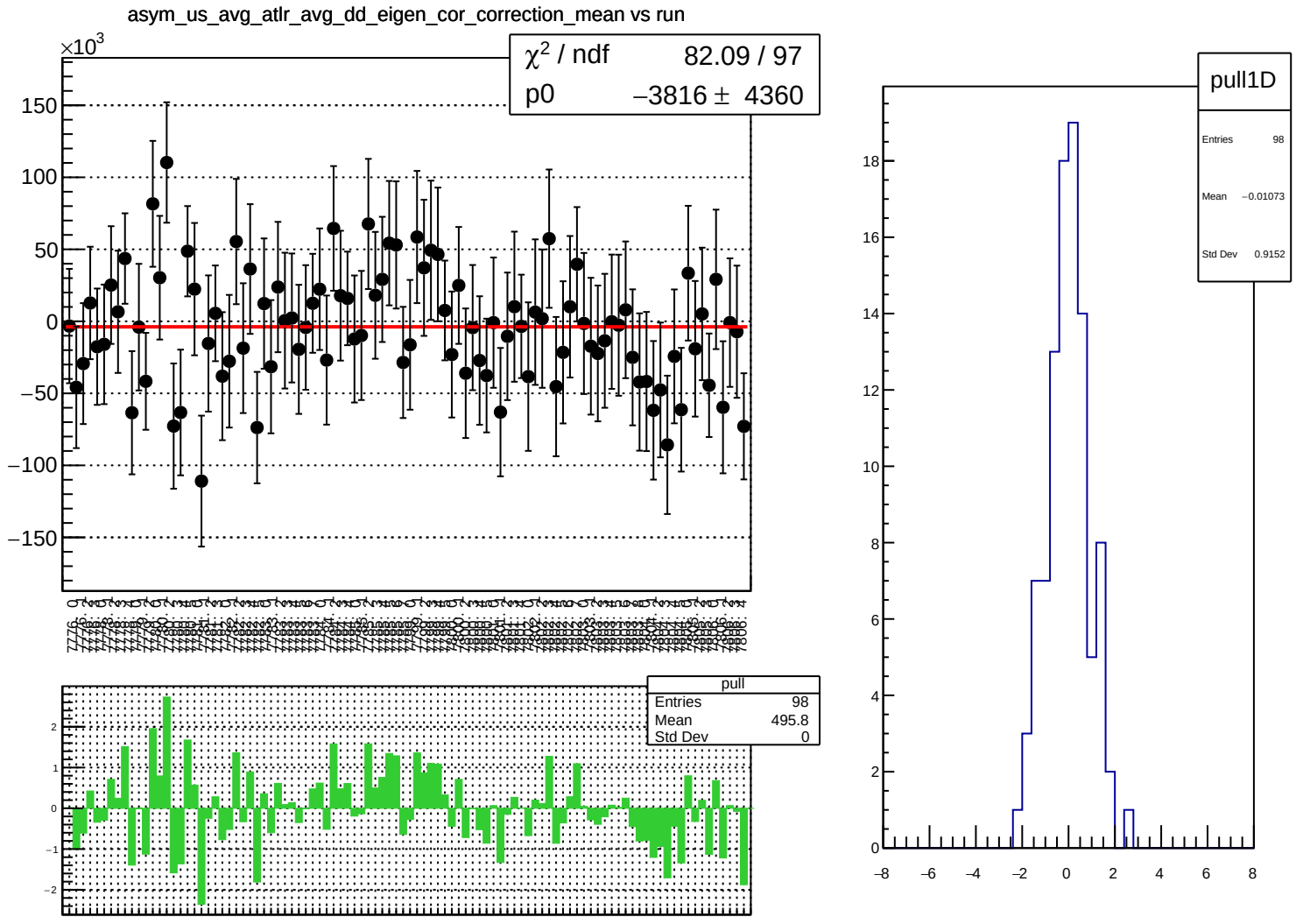

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.09 / 97
p0 −3816 ± 4360
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 495.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01073
Std Dev 0.9152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

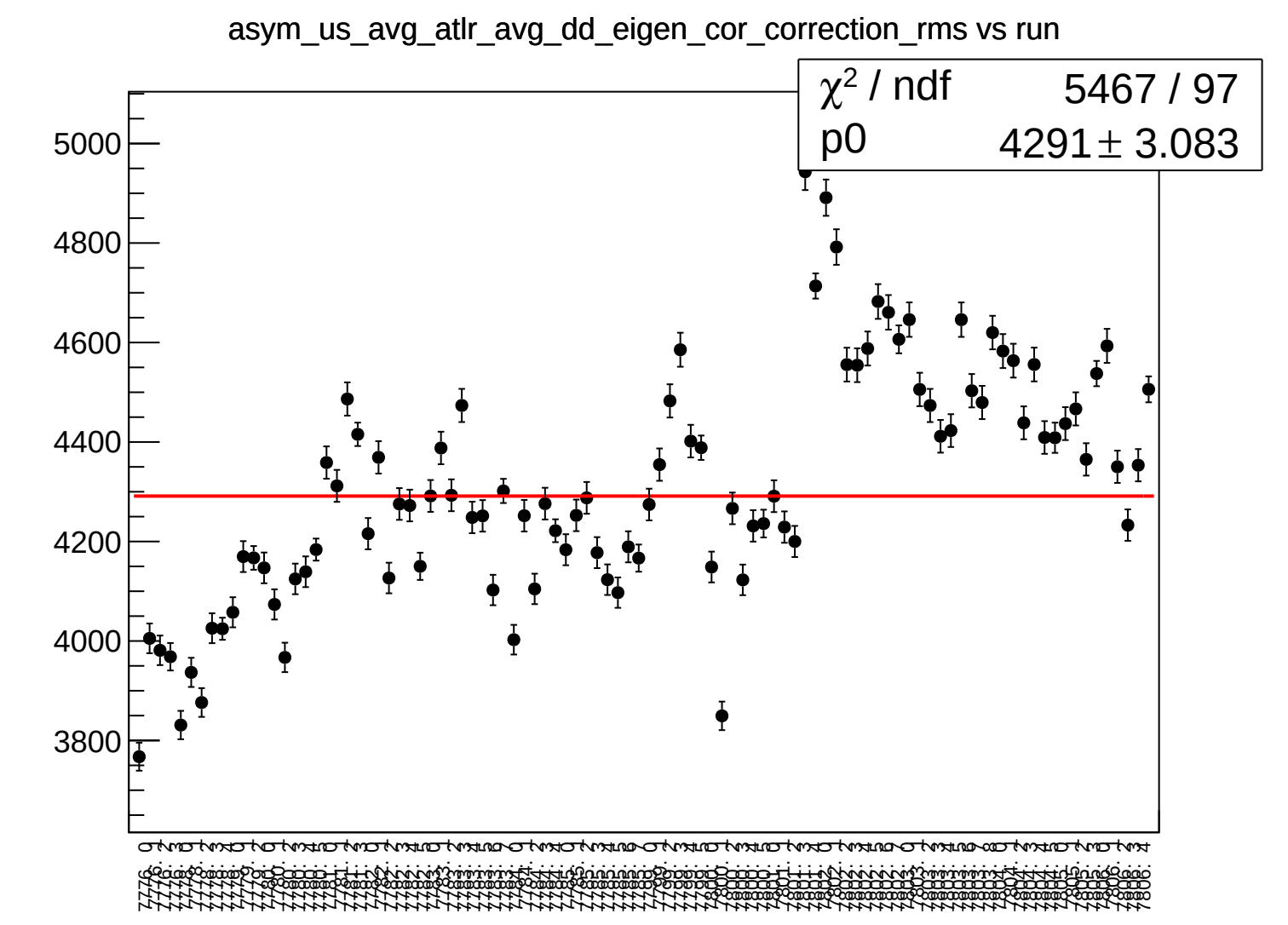

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 5467 / 97
p0 4291 ± 3.083
5000
4800
4600
4400
4200
4000
3800

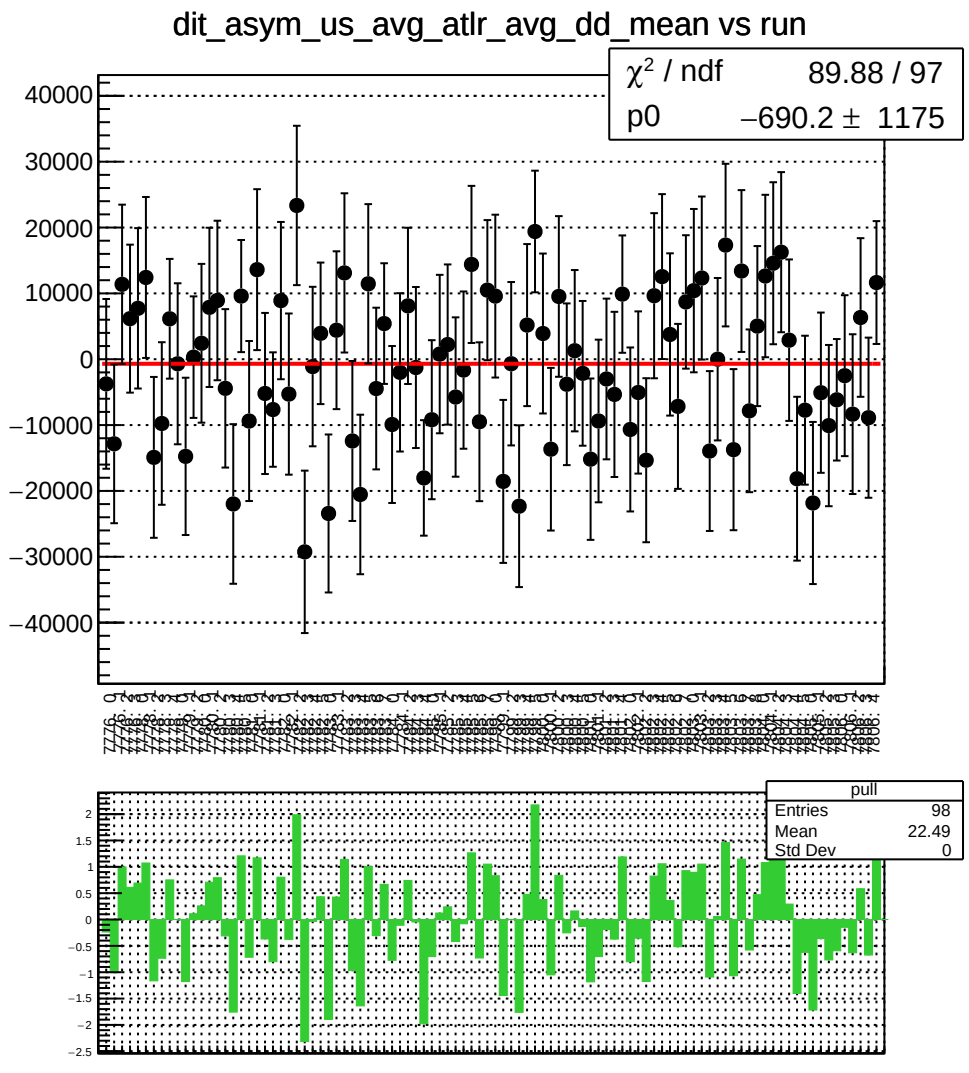

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 92.22 / 97
p0 −769.9 ± 1155
pull
Entries 98
Mean −40.29
Std Dev 0

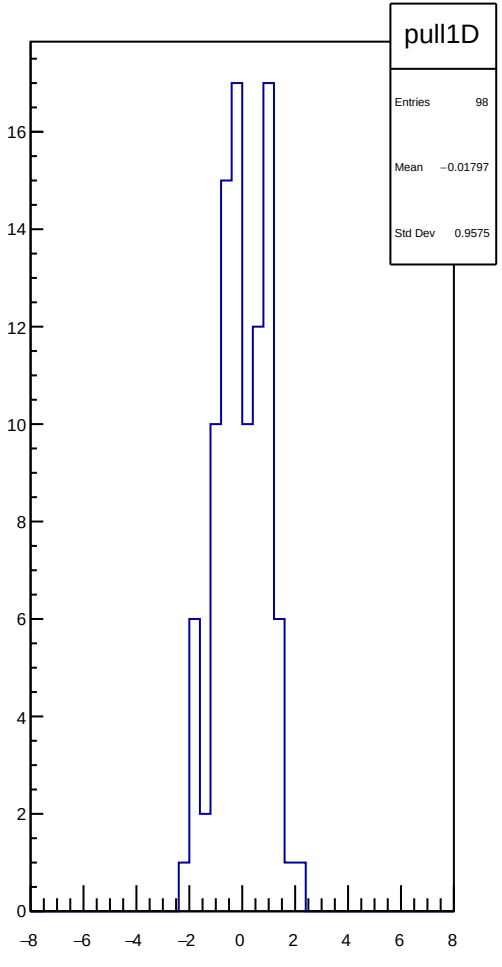

pull1D
Entries 98
Mean −0.01907
Std Dev 0.9699

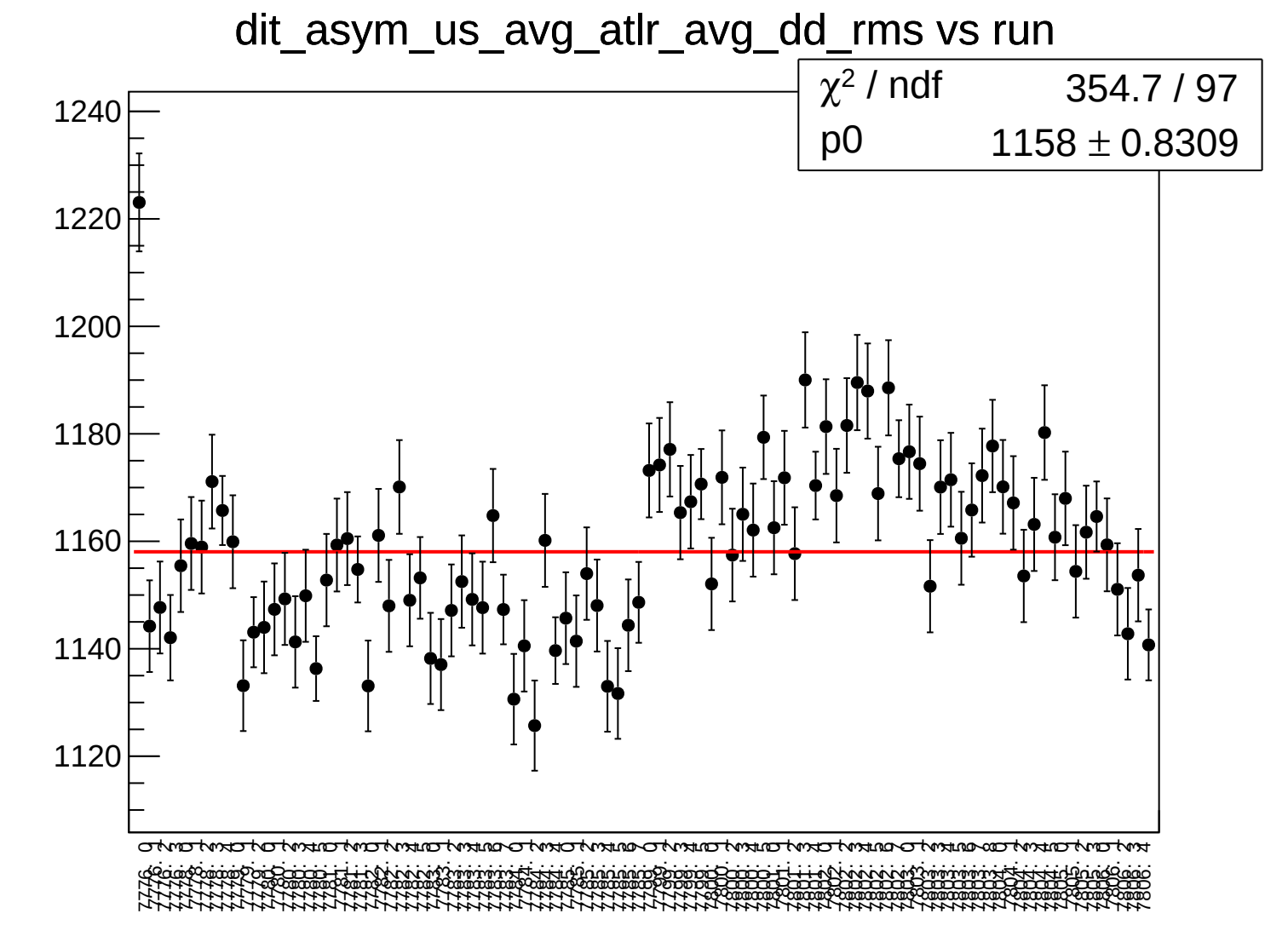

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 196.1 / 97
p0 1138 ± 0.8164
1220
1200
1180
1160
1140
1120
1100

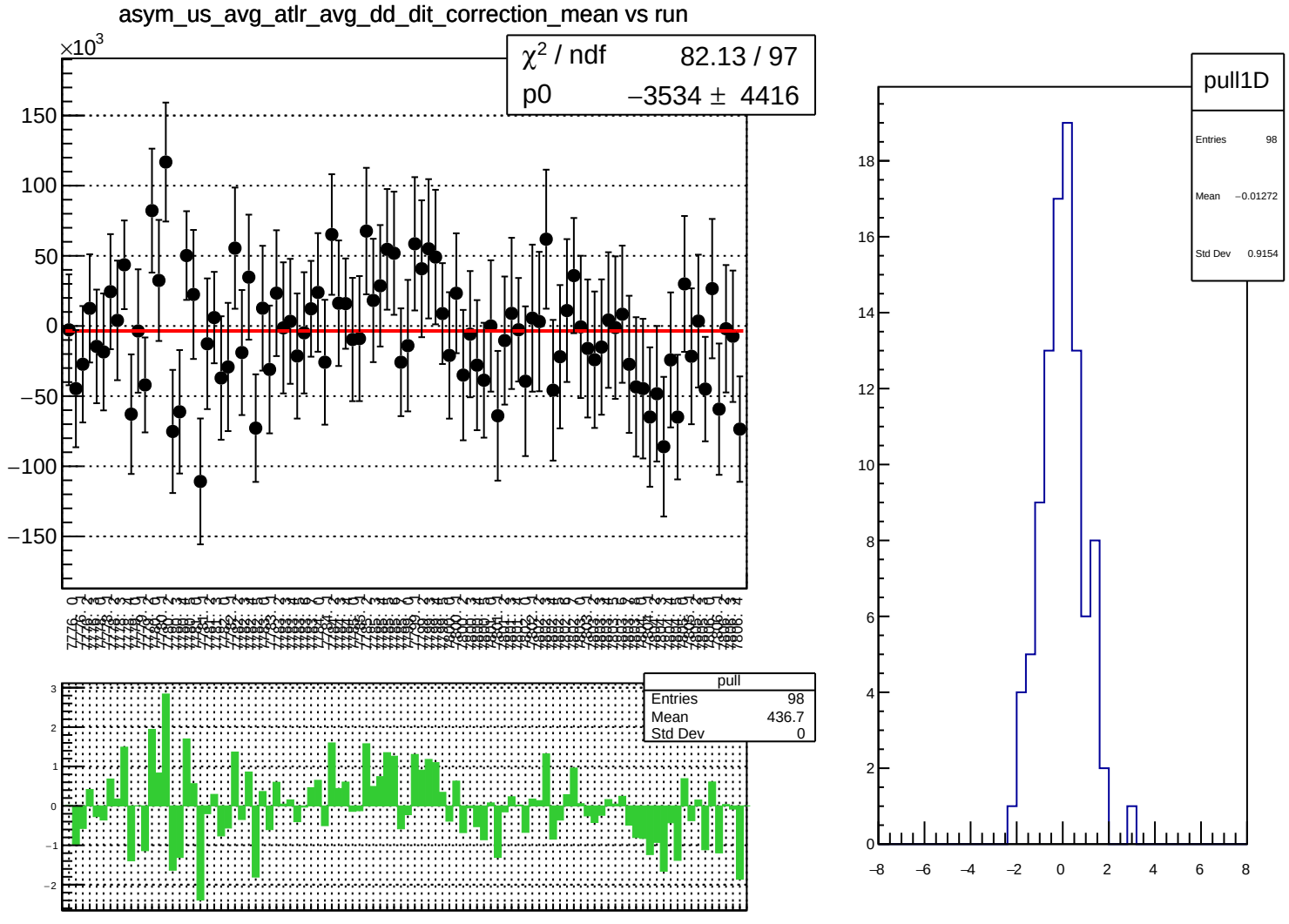

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.09 / 97
p0 −3816 ± 4360
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 495.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01073
Std Dev 0.9152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

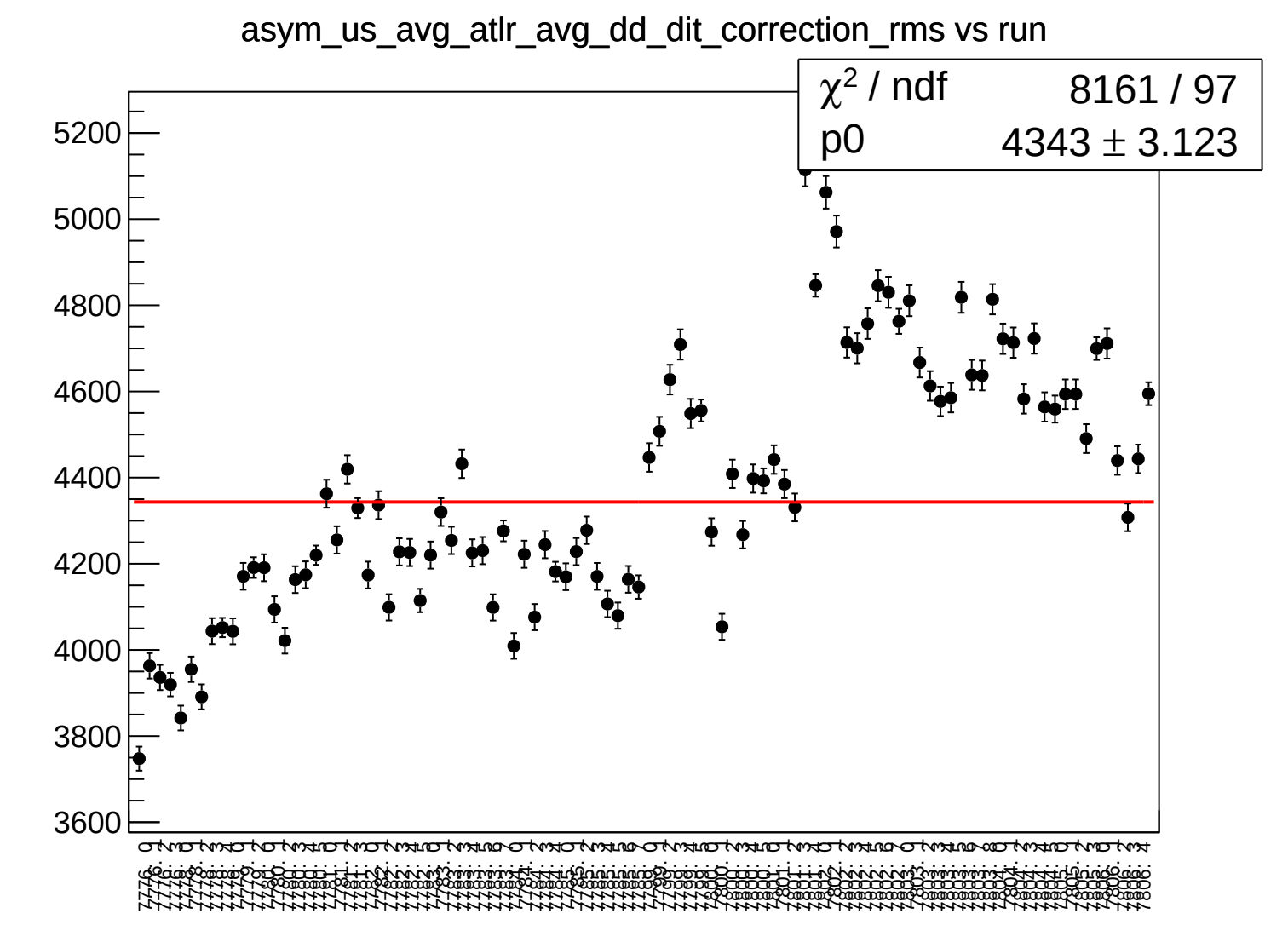

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5467 / 97
p0 4291 ± 3.083
5000
4800
4600
4400
4200
4000
3800

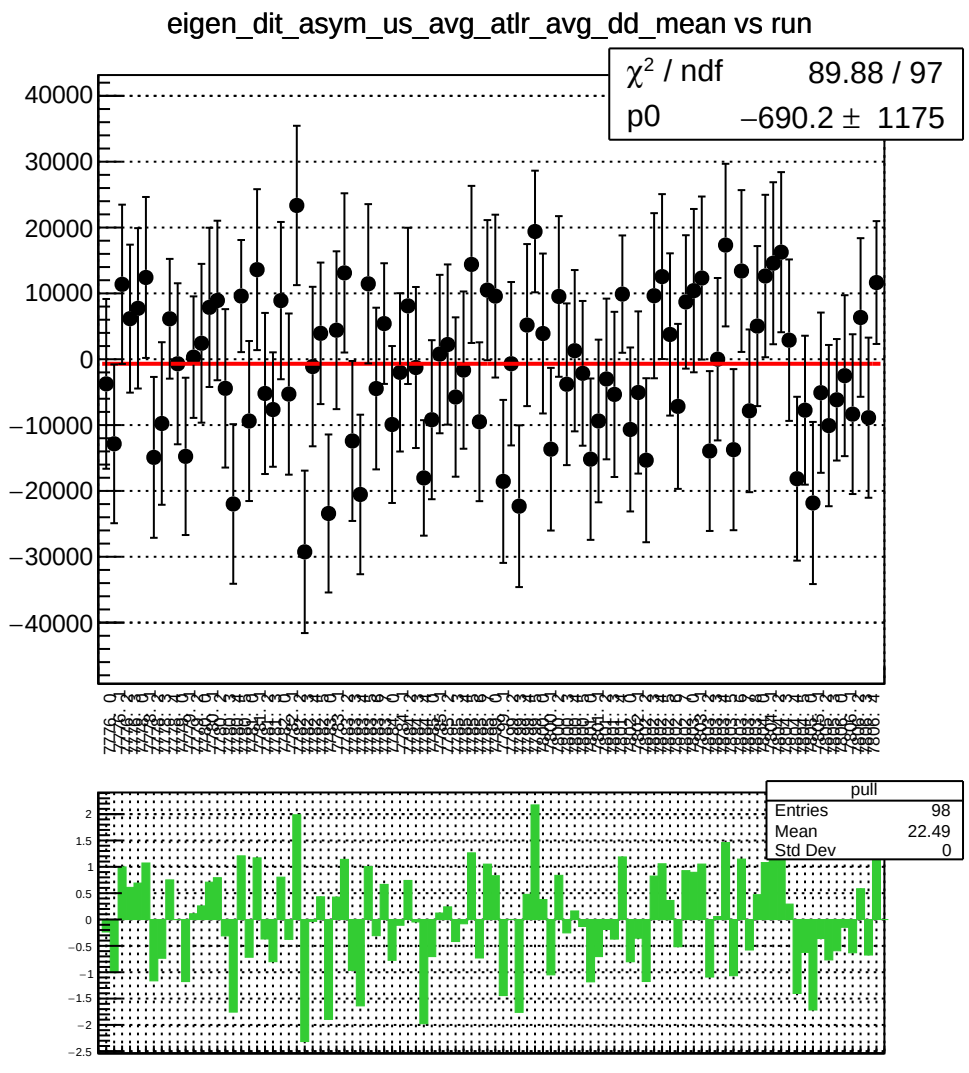

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 89.88 / 97
p0 −690.2 ± 1175
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 22.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

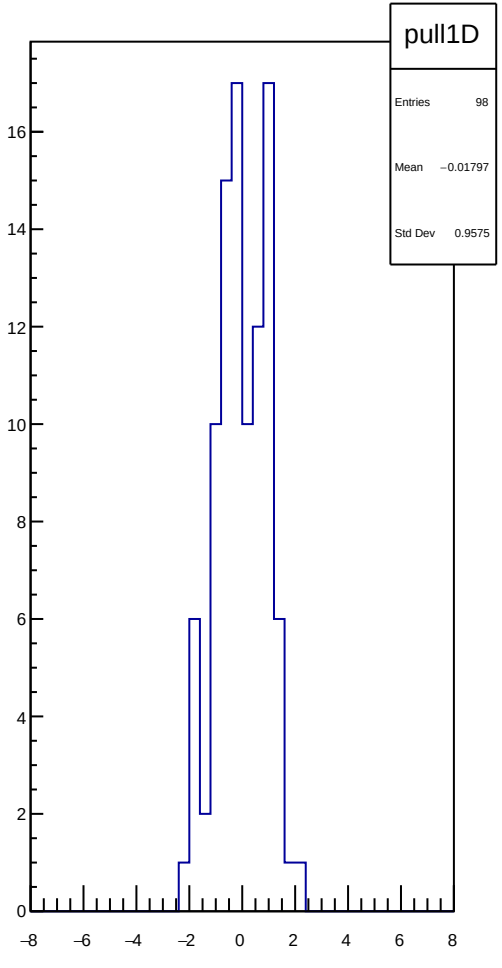

pull1D
Entries 98
Mean −0.01797
Std Dev 0.9575
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

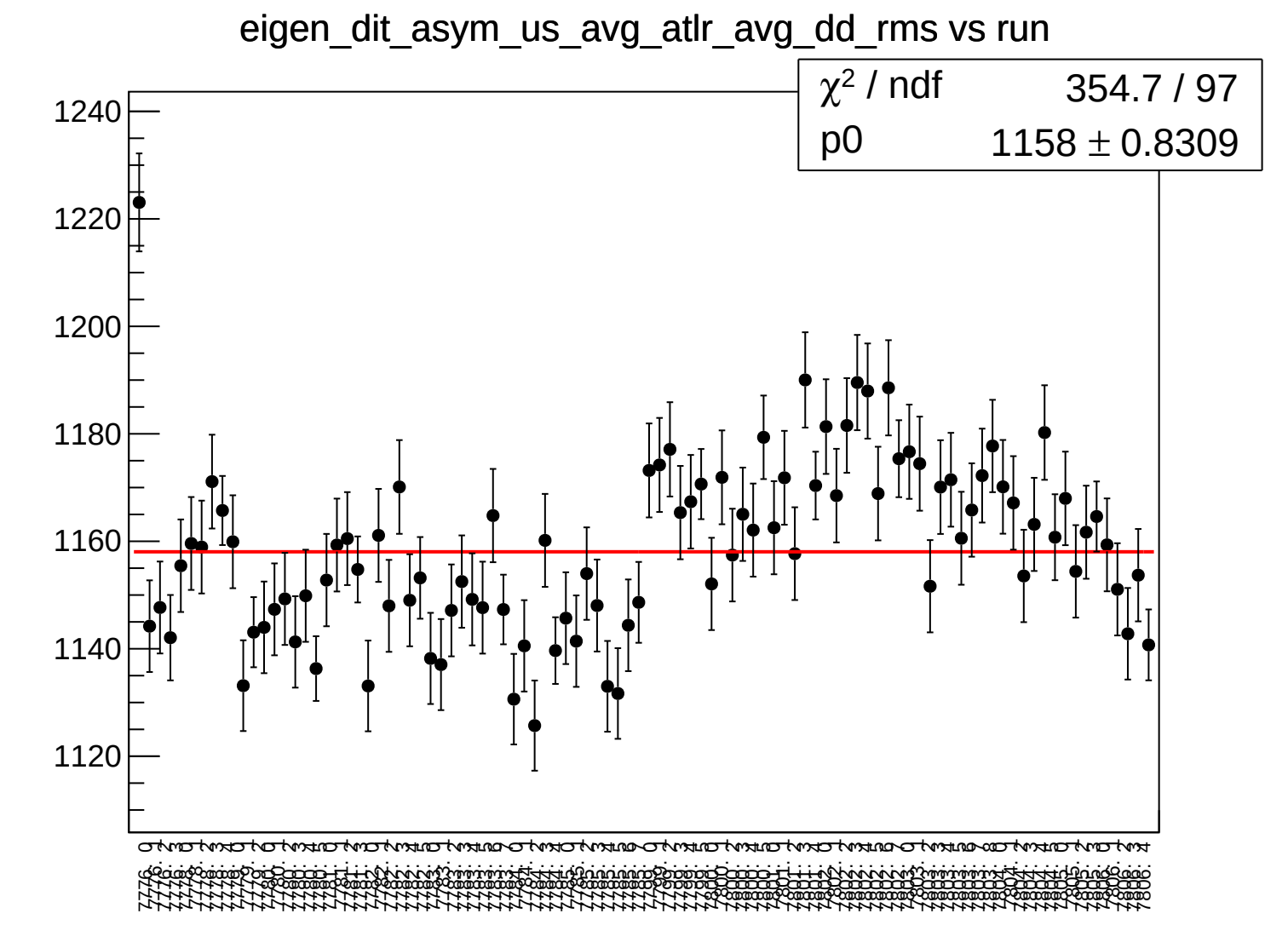

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 354.7 / 97
p0 1158 ± 0.8309
1240
1220
1200
1180
1160
1140
1120

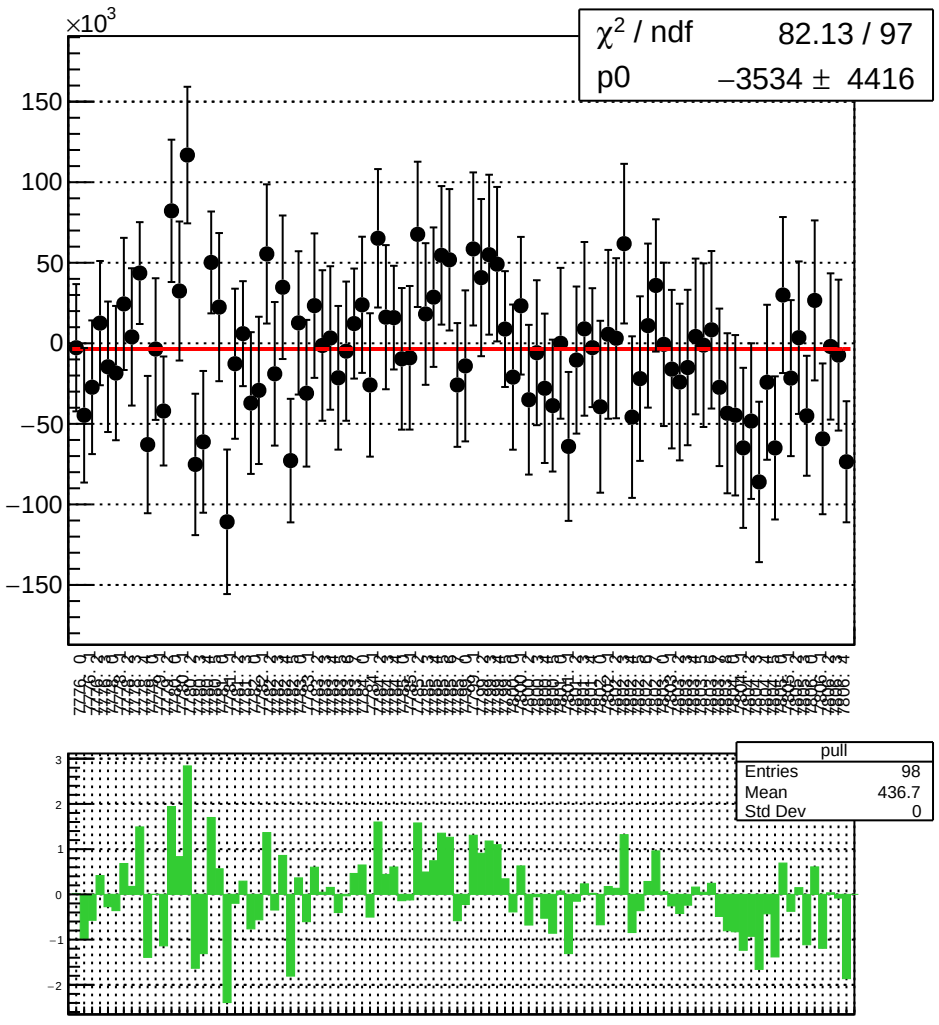

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.13 / 97
p0 −3534 ± 4416
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 436.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01272
Std Dev 0.9154
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

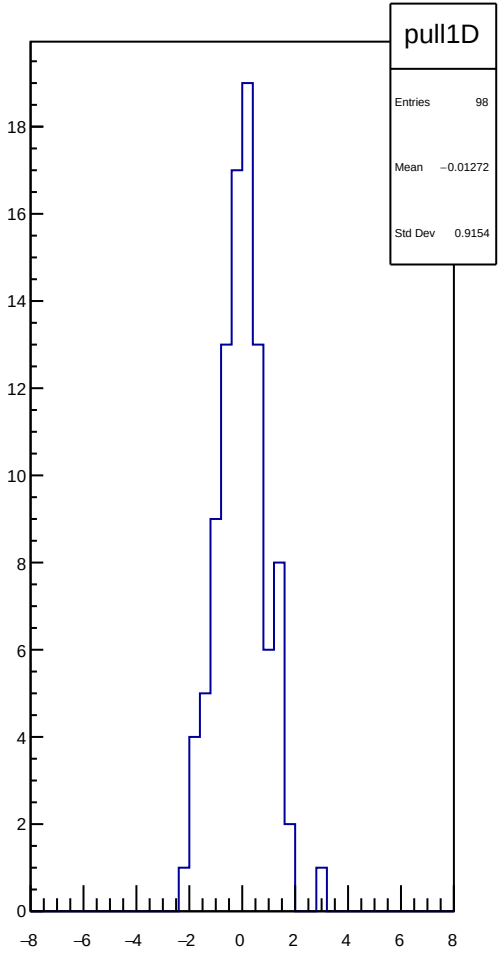

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ^2 / ndf 8161 / 97
p0 4343 ± 3.123
5200
5000
4800
4600
4400
4200
4000
3800
3600

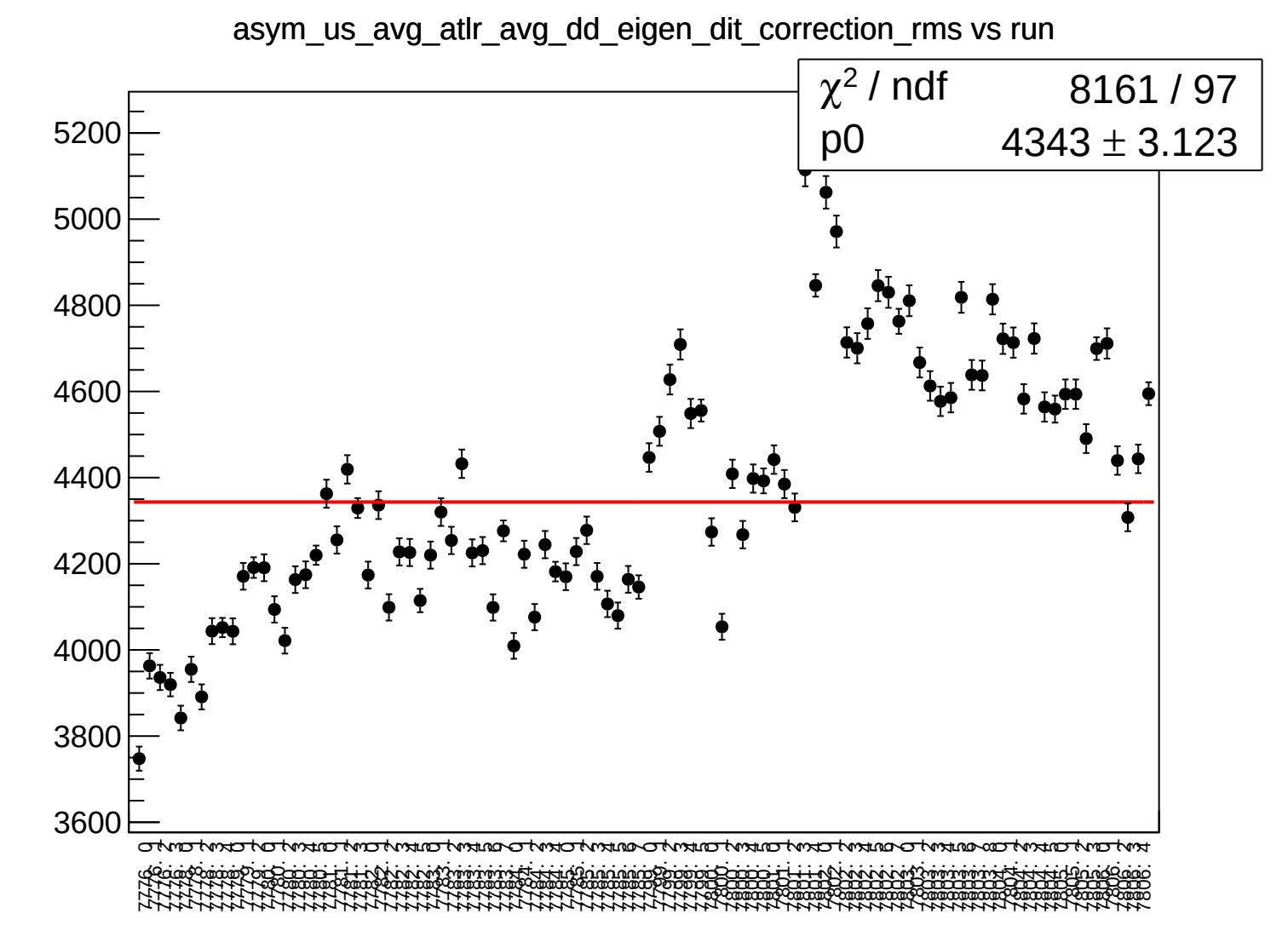

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 89.88 / 97
p0 −690.2 ± 1175
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 22.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

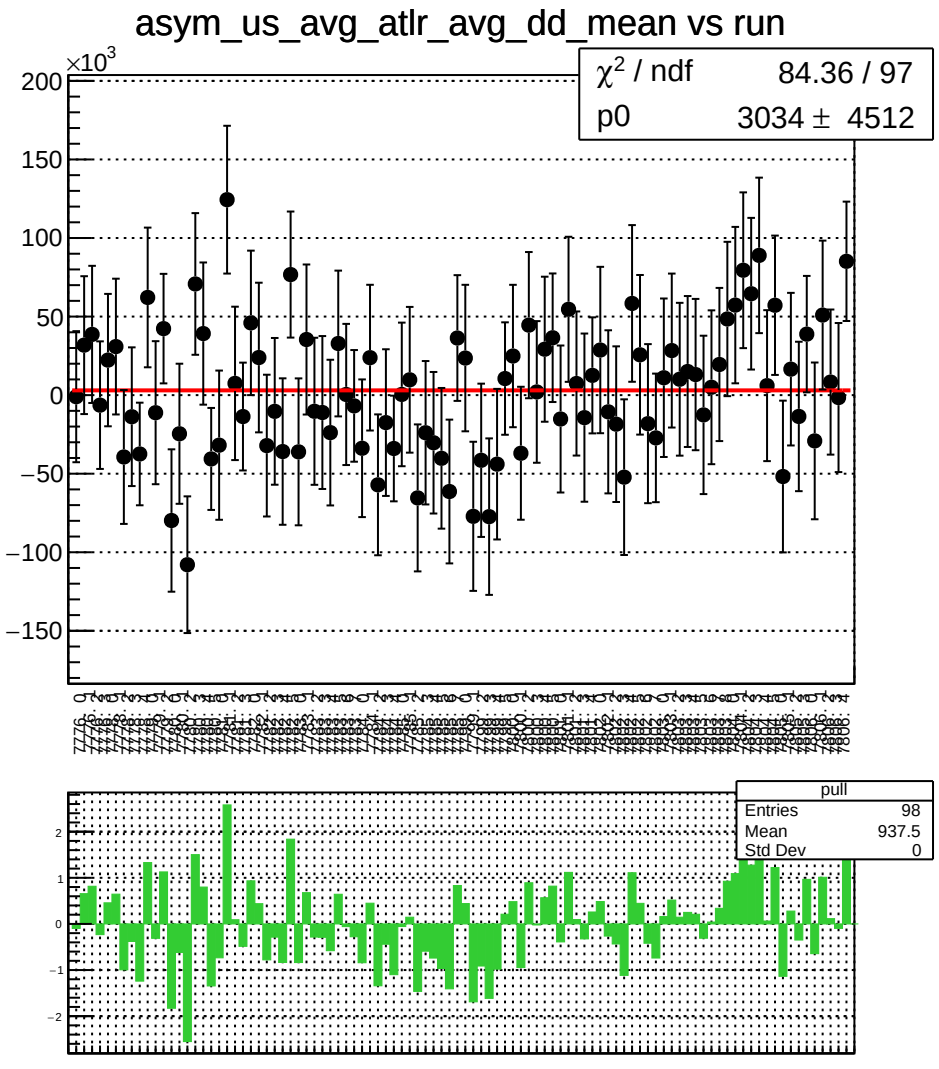

pull1D
Entries 98
Mean −0.01797
Std Dev 0.9575
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

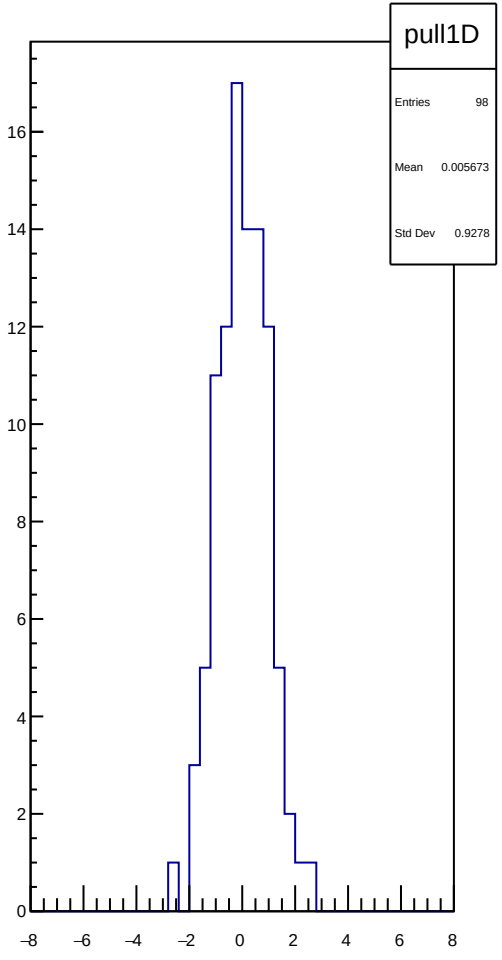

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 354.7 / 97
p0 1158 ± 0.8309
1240
1220
1200
1180
1160
1140
1120

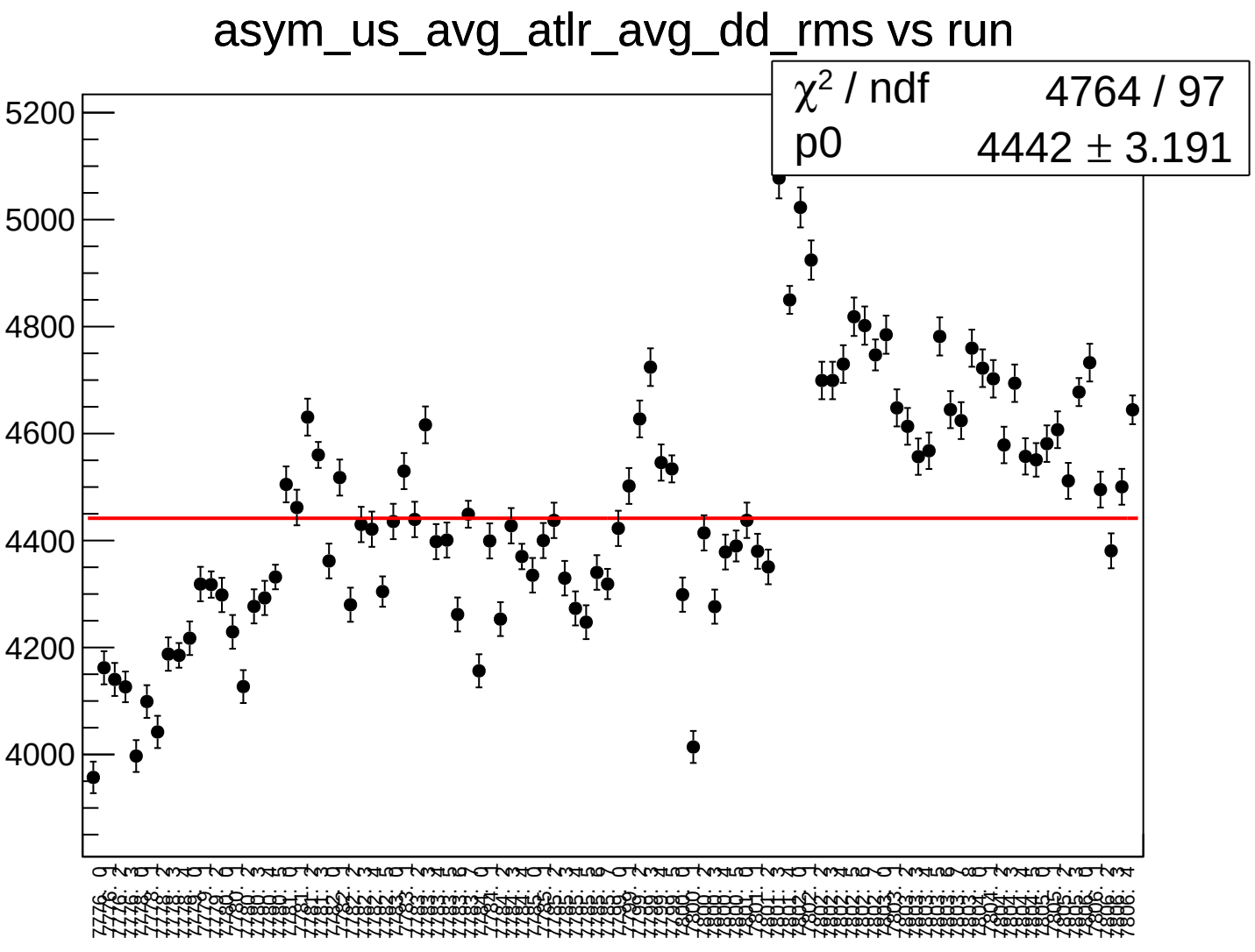

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.13 / 97
p0 −3534 ± 4416
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 436.7
Std Dev 0
3
2
1
0
−1
−2

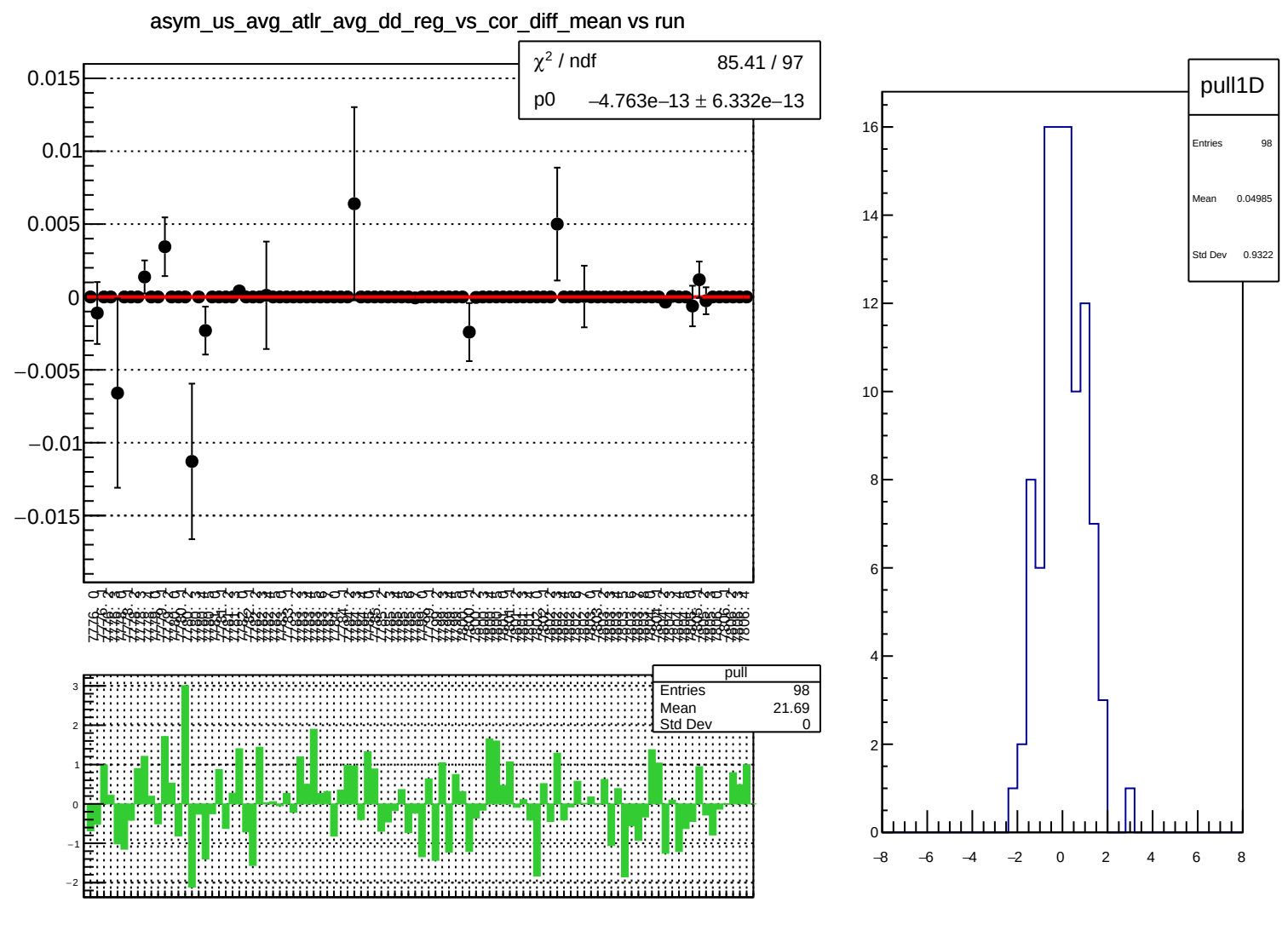

pull1D
Entries 98
Mean −0.01272
Std Dev 0.9154
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

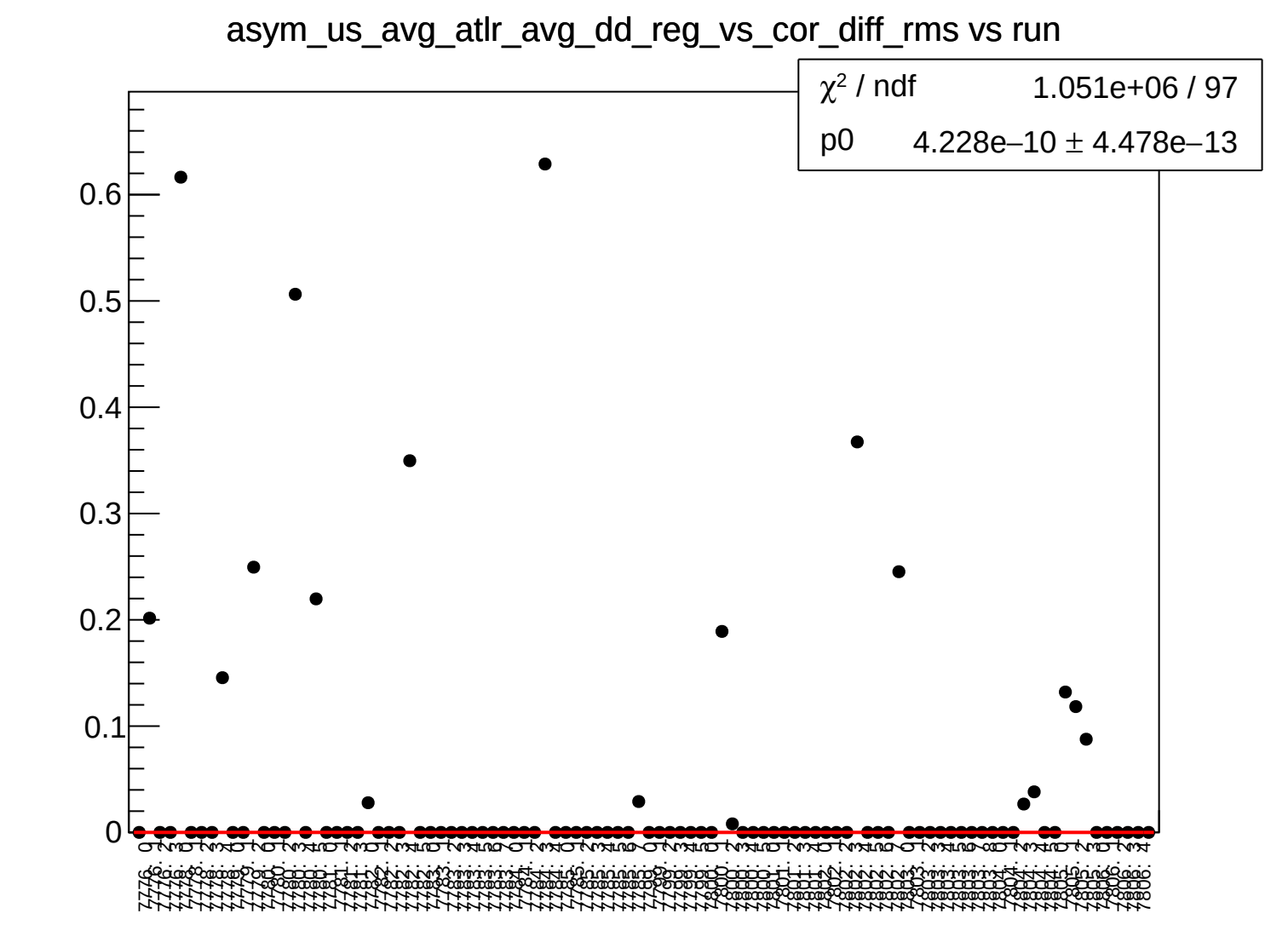

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 8161 / 97
p0 4343 ± 3.123
5200
5000
4800
4600
4400
4200
4000
3800
3600

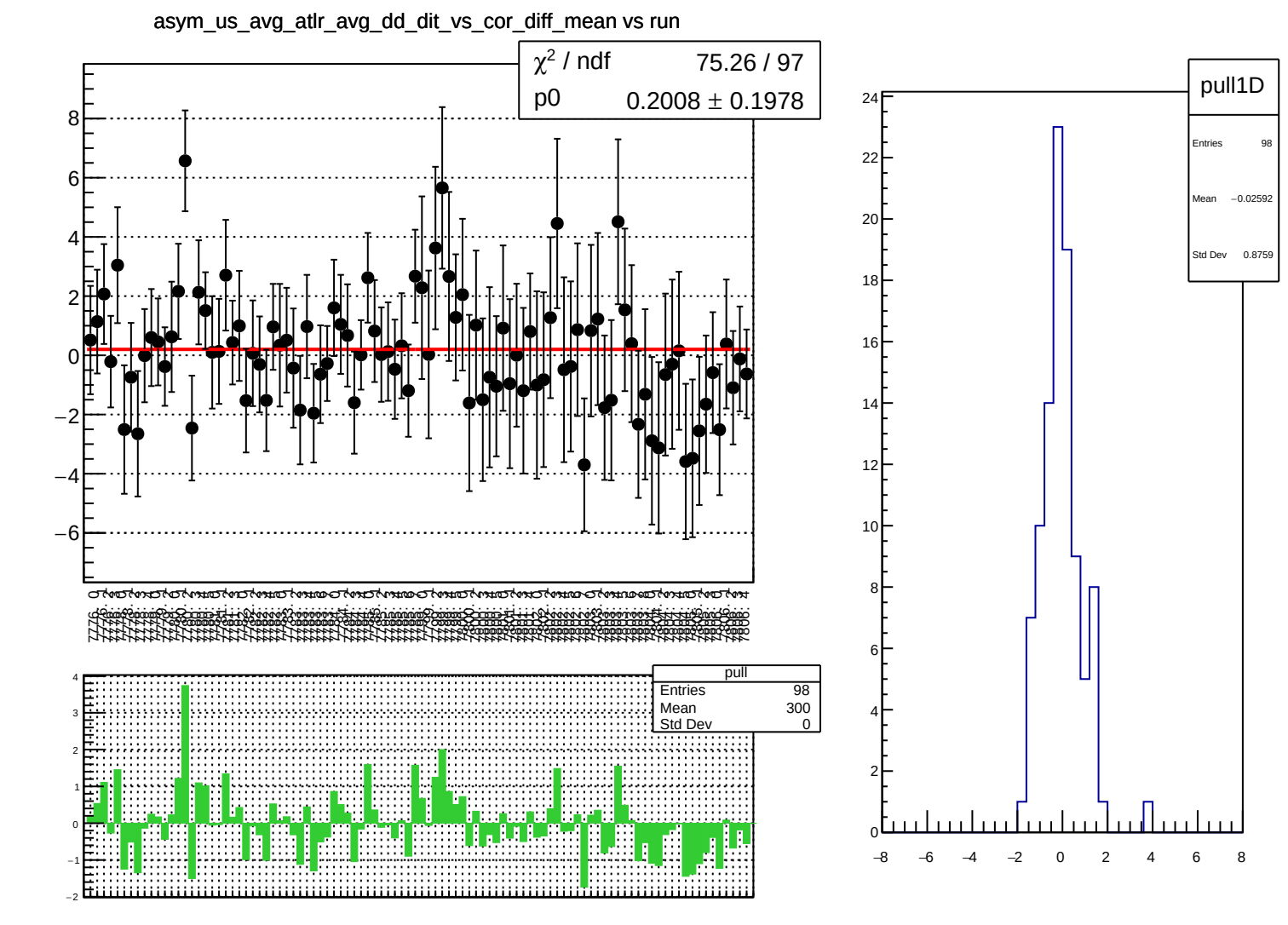

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 84.36 / 97
p0 3034 ± 4512
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 937.5
Std Dev 0
2
1
0
−1
−2

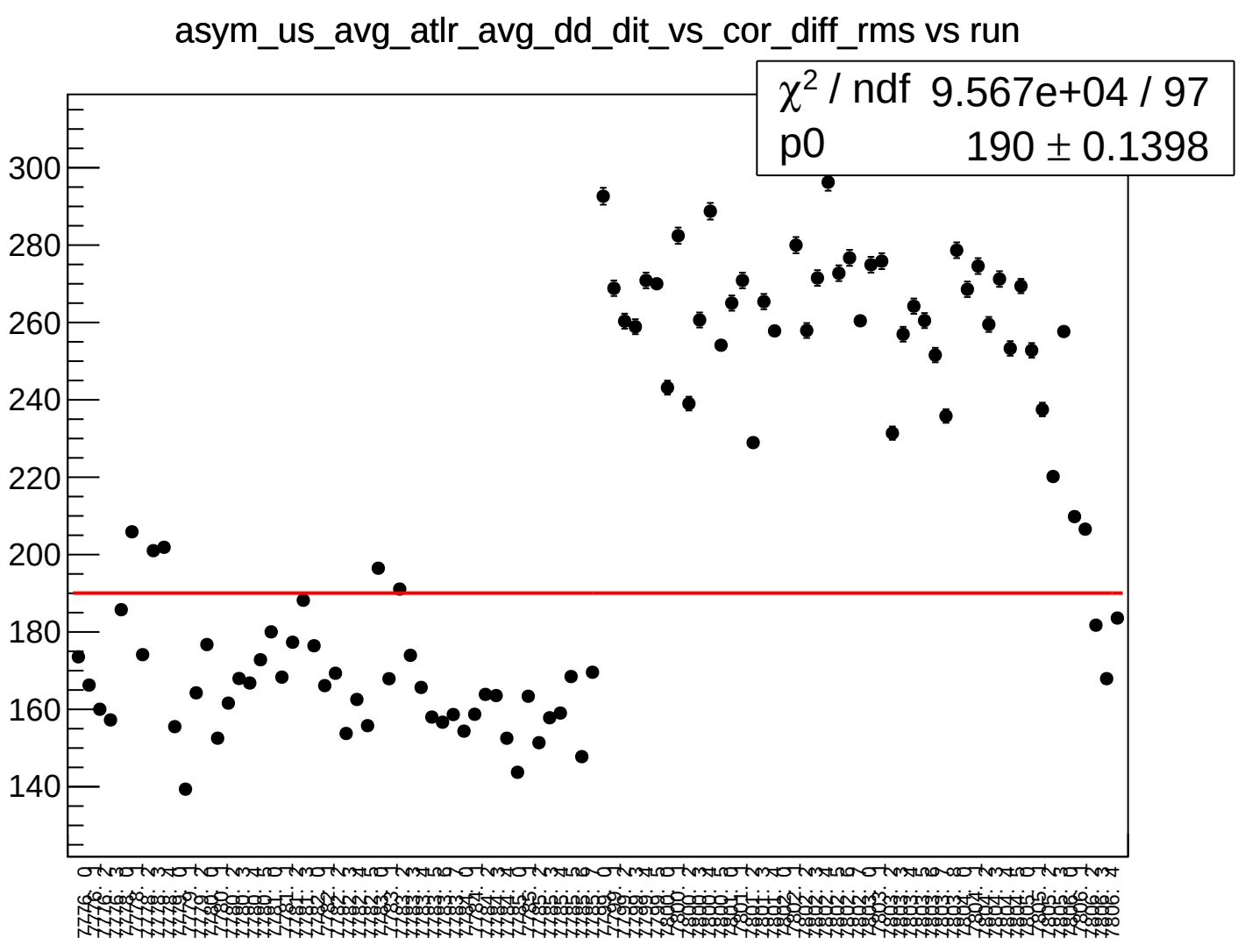

pull1D
Entries 98
Mean 0.005673
Std Dev 0.9278
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

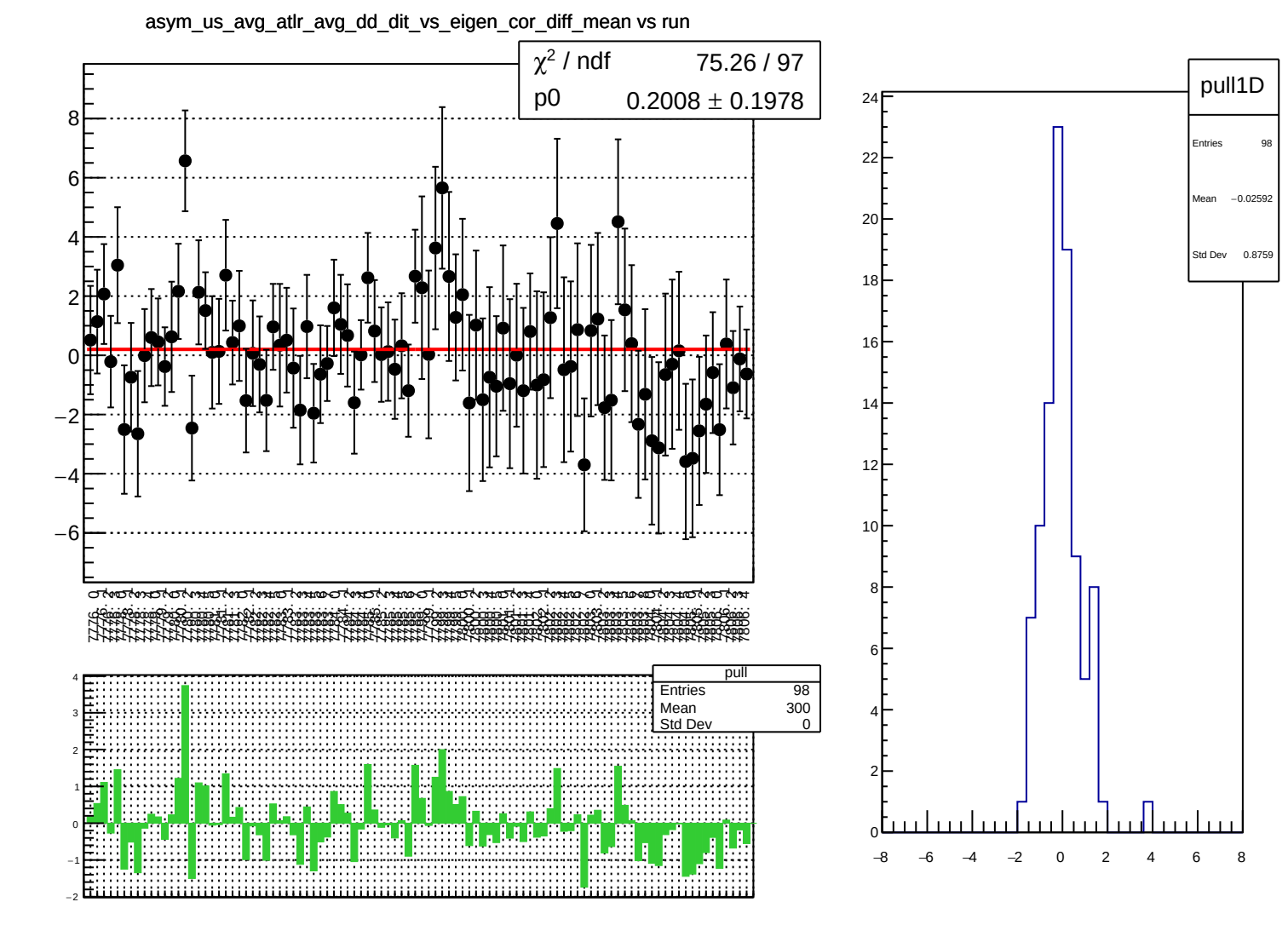

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 4764 / 97
p0 4442 ± 3.191
5200
5000
4800
4600
4400
4200
4000

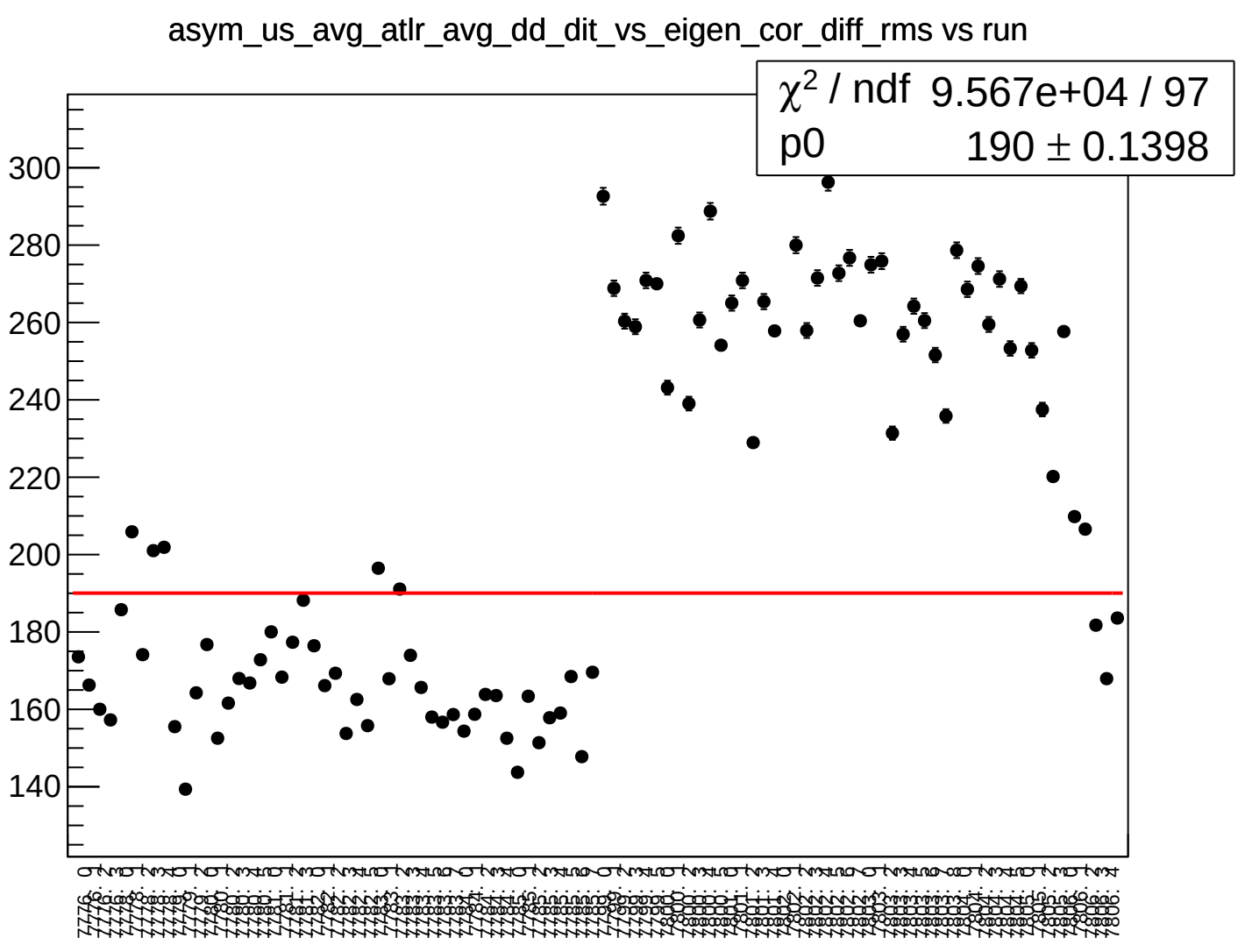

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.41 / 97
p0 −4.763e−13 ± 6.332e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 98
Mean 21.69
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.04985
Std Dev 0.9322
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

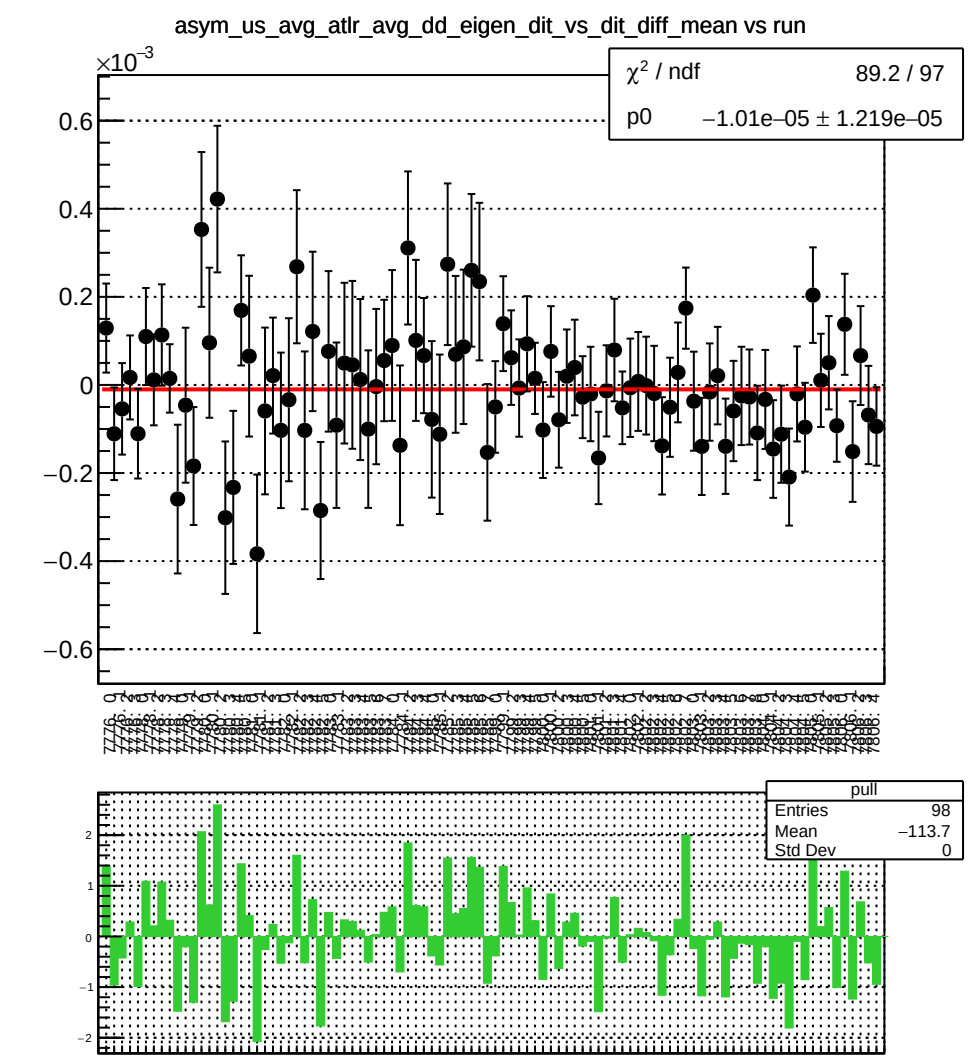

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 97
p0 4.228e−10 ± 4.478e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

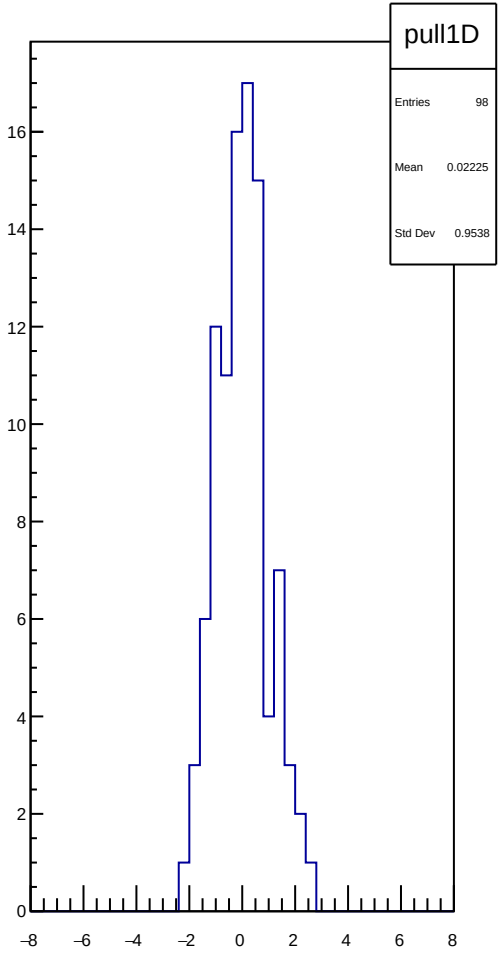

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.26 / 97
p0 0.2008 ± 0.1978
pull
Entries 98
Mean 300
Std Dev 0
pull1D
Entries 98
Mean −0.02592
Std Dev 0.8759

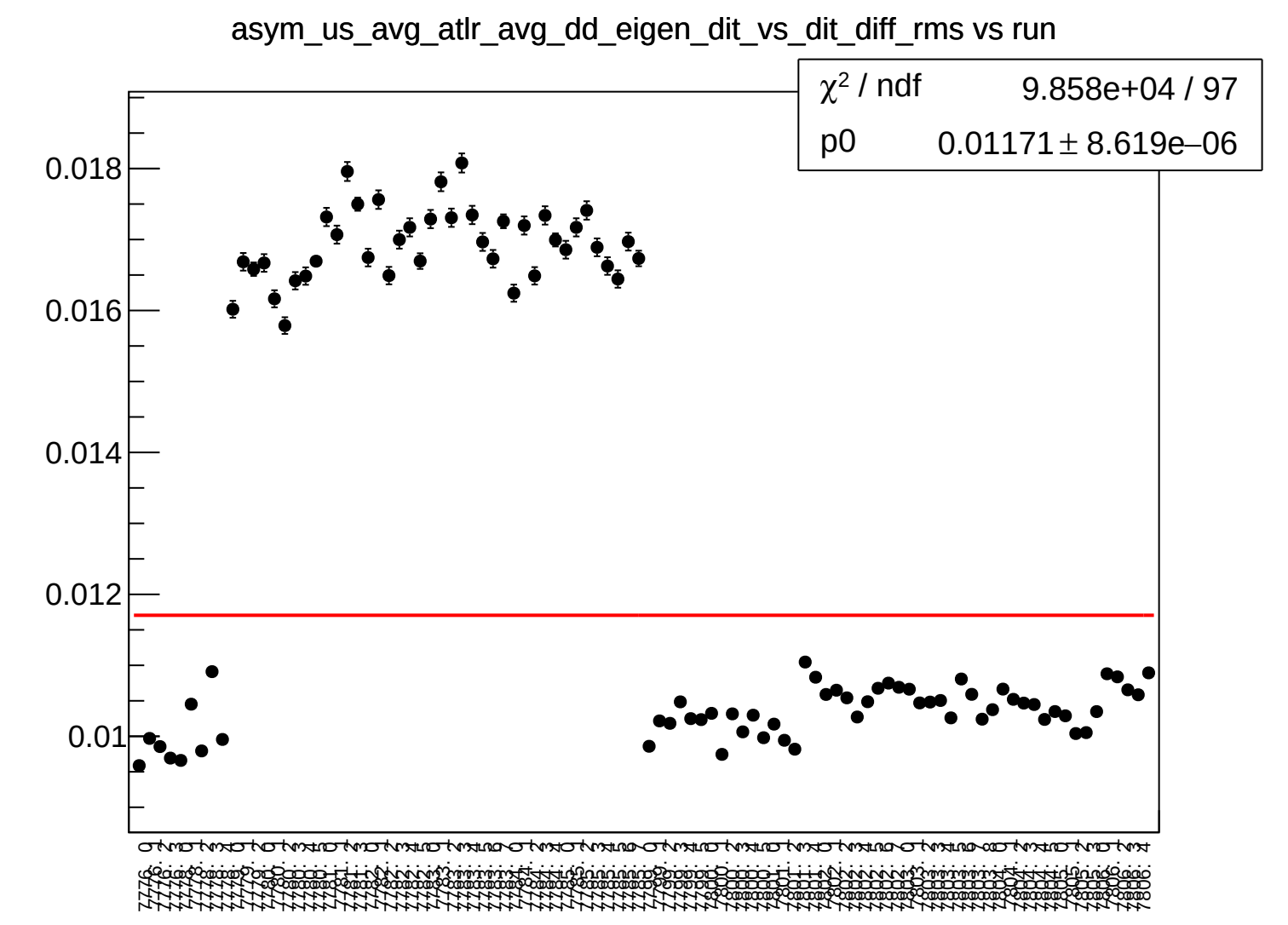

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.567e+04 / 97
p0 190 ± 0.1398
300
280
260
240
220
200
180
160
140

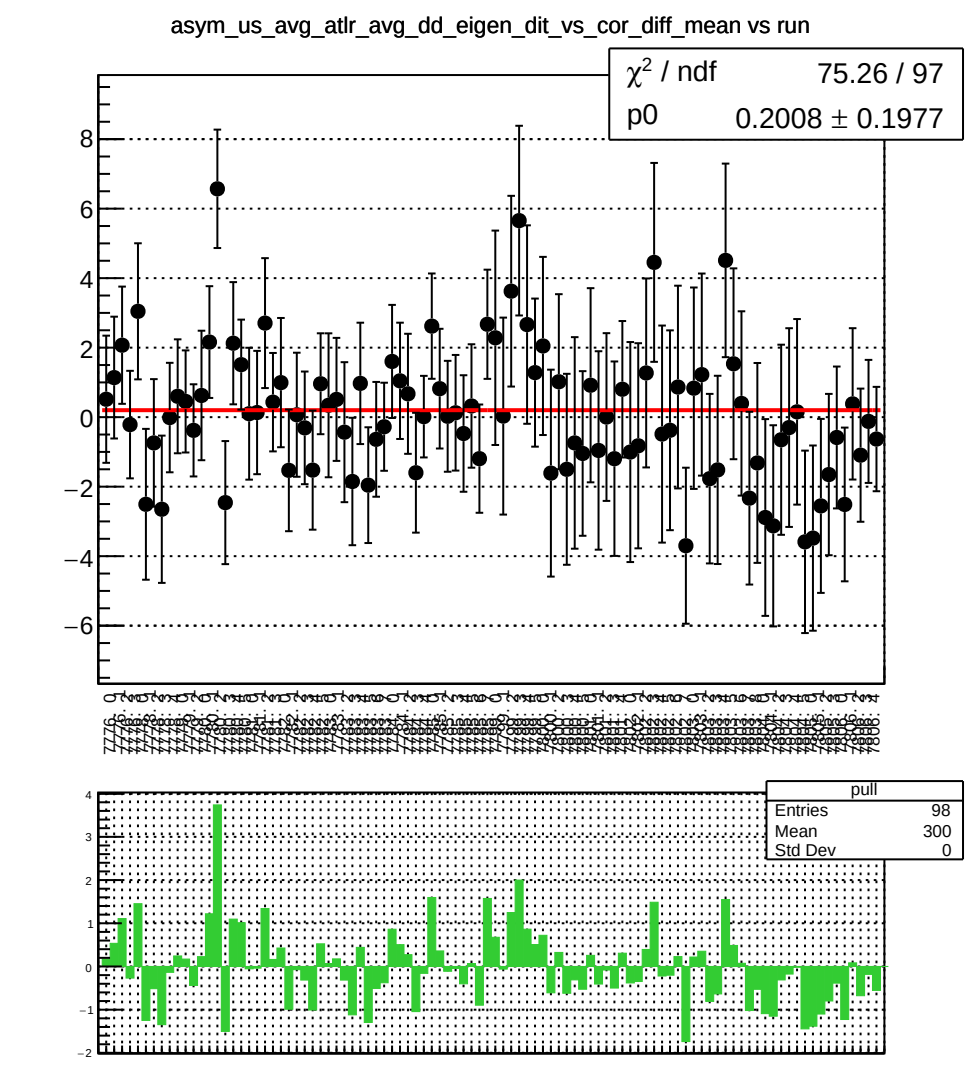

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.26 / 97
p0 0.2008 ± 0.1978
pull
Entries 98
Mean 300
Std Dev 0
pull1D
Entries 98
Mean −0.02592
Std Dev 0.8759

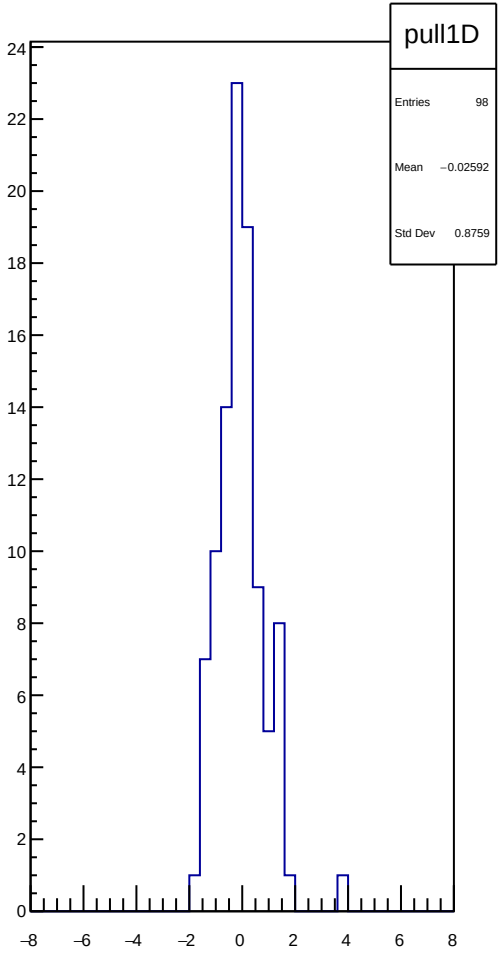

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.567e+04 / 97
p0 190 ± 0.1398
300
280
260
240
220
200
180
160
140

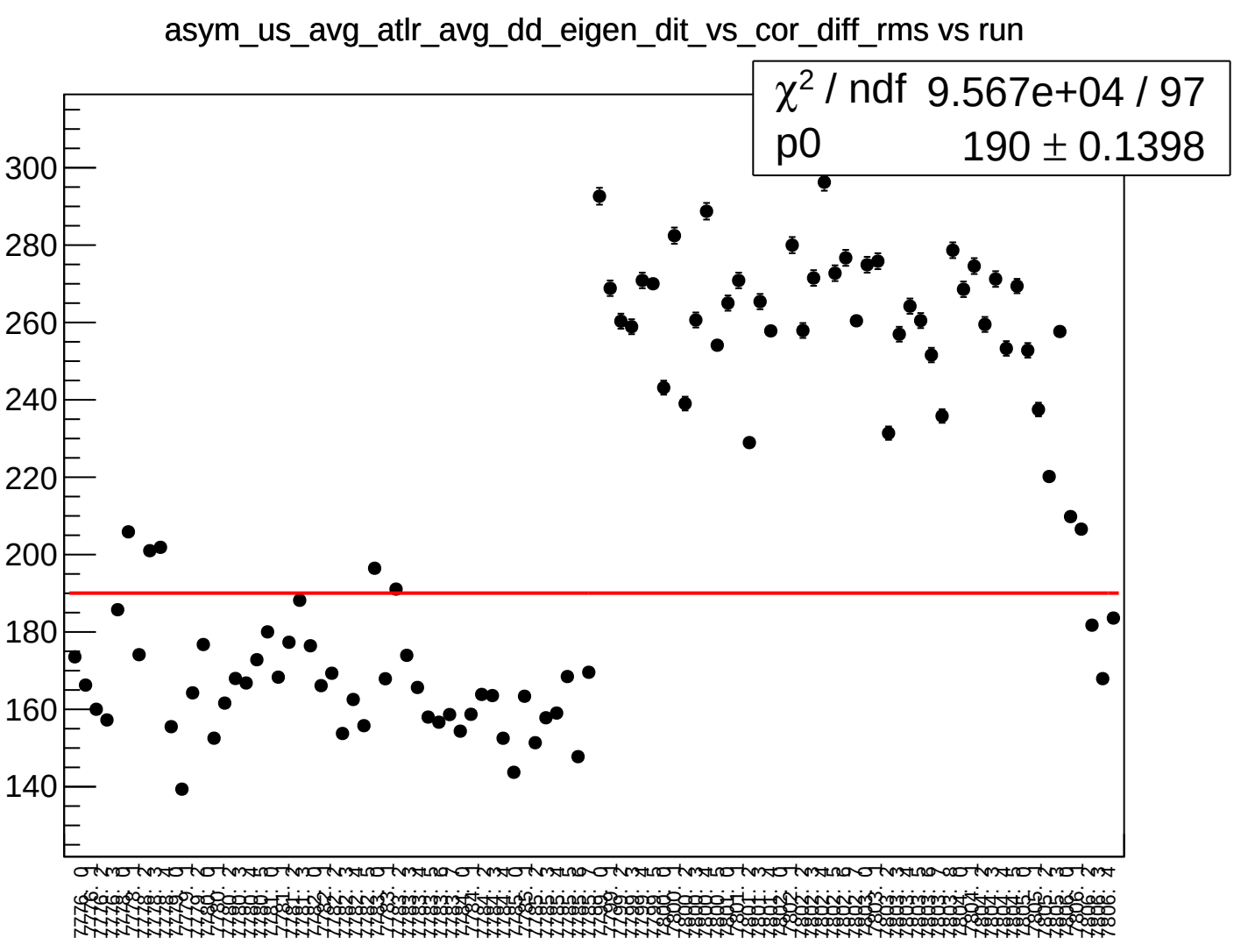

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.2 / 97
p0 −1.01e−05 ± 1.219e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 98
Mean −113.7
Std Dev 0
2
1
0
−1
−2

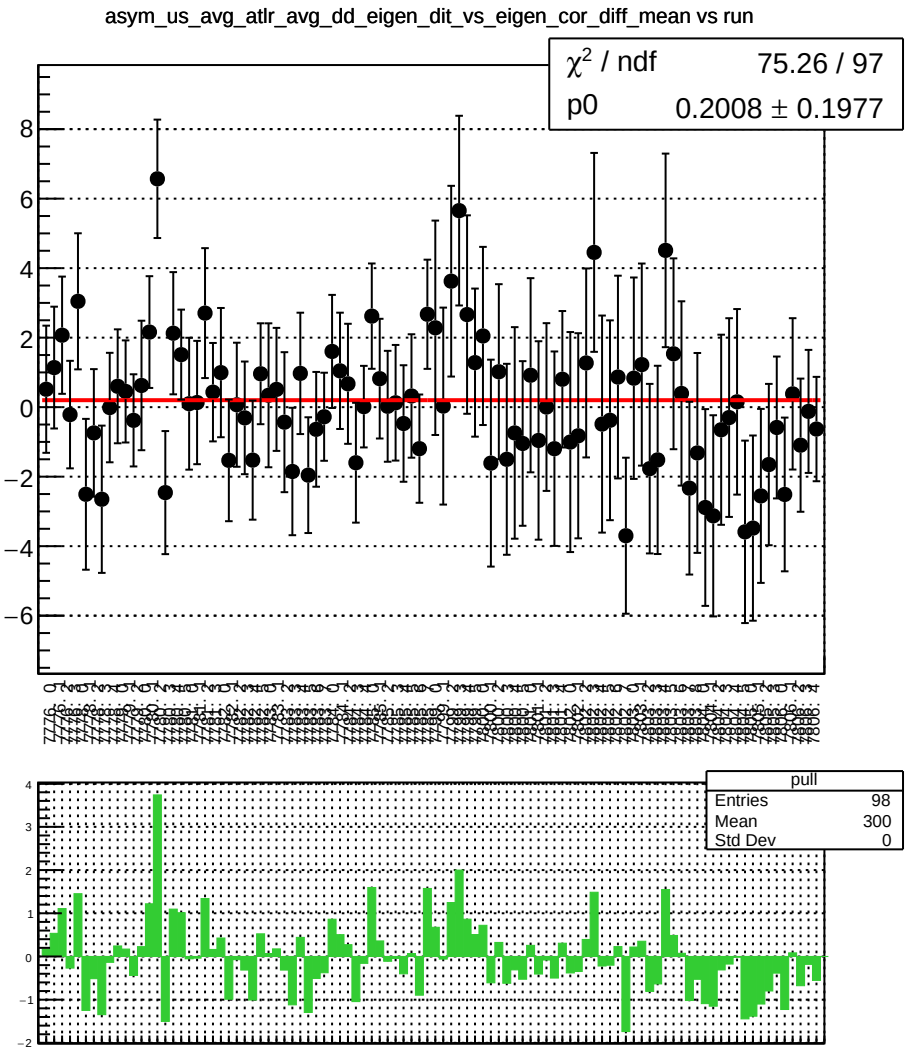

pull1D
Entries 98
Mean 0.02225
Std Dev 0.9538
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

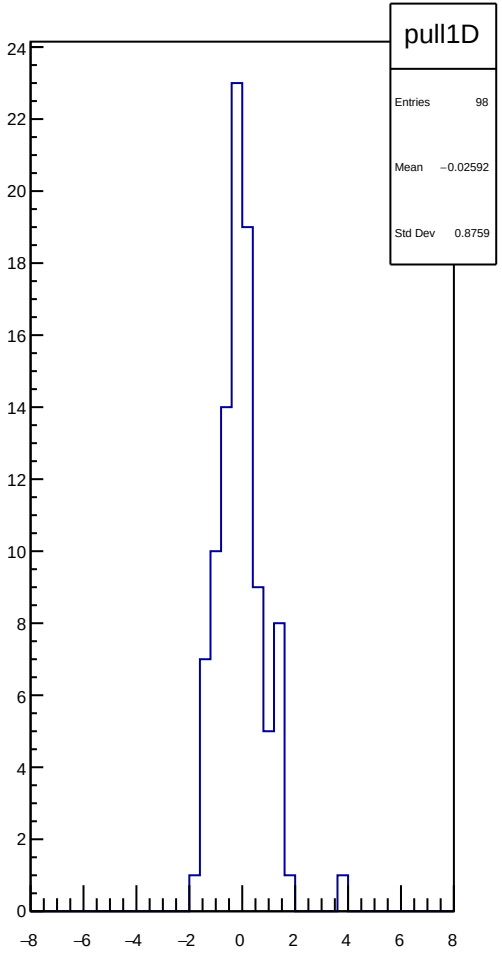

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.858e+04 / 97
p0 0.01171 ± 8.619e–06
0.018
0.016
0.014
0.012
0.01

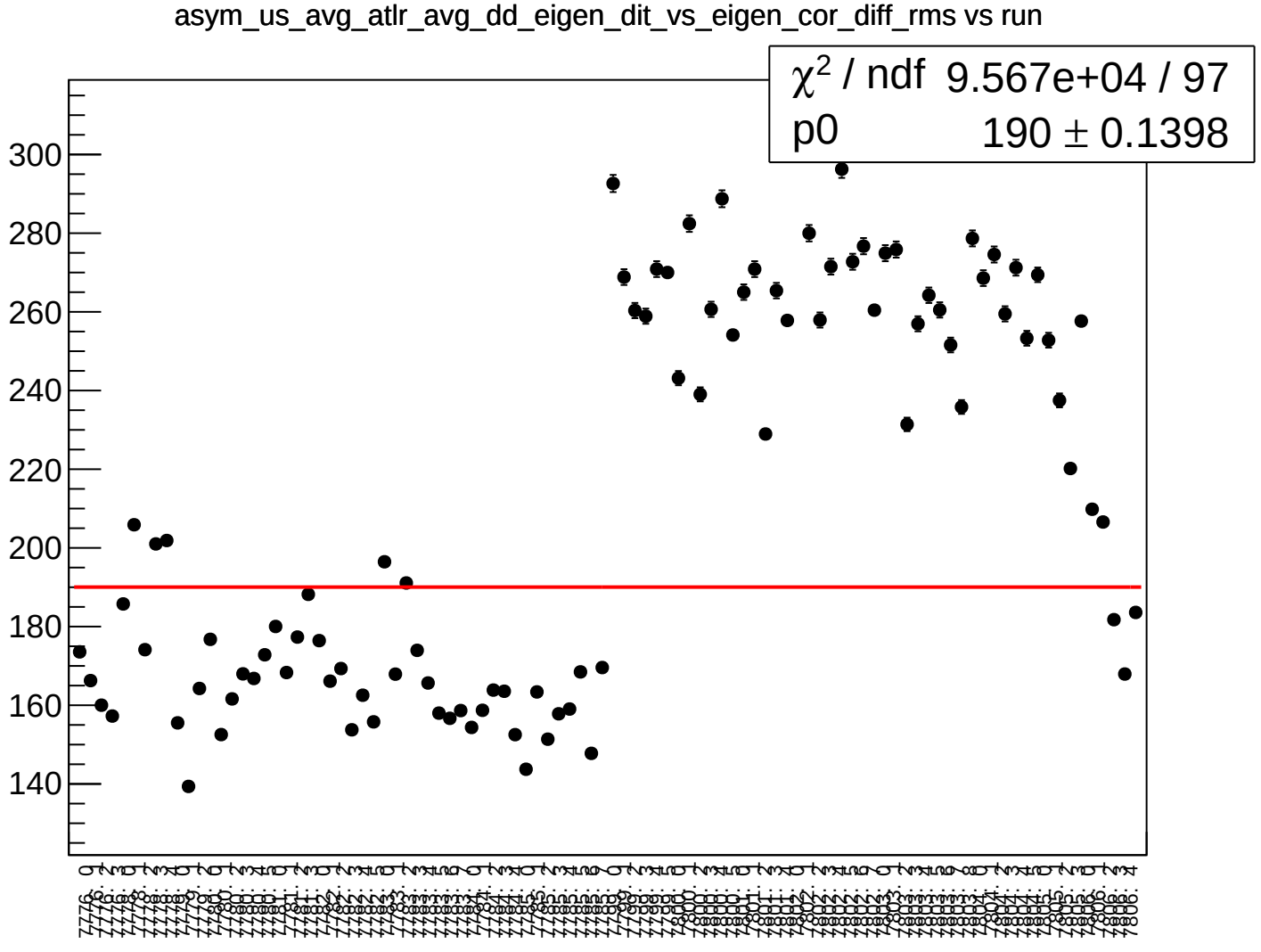

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.26 / 97
p0 0.2008 ± 0.1977
pull
Entries 98
Mean 300
Std Dev 0

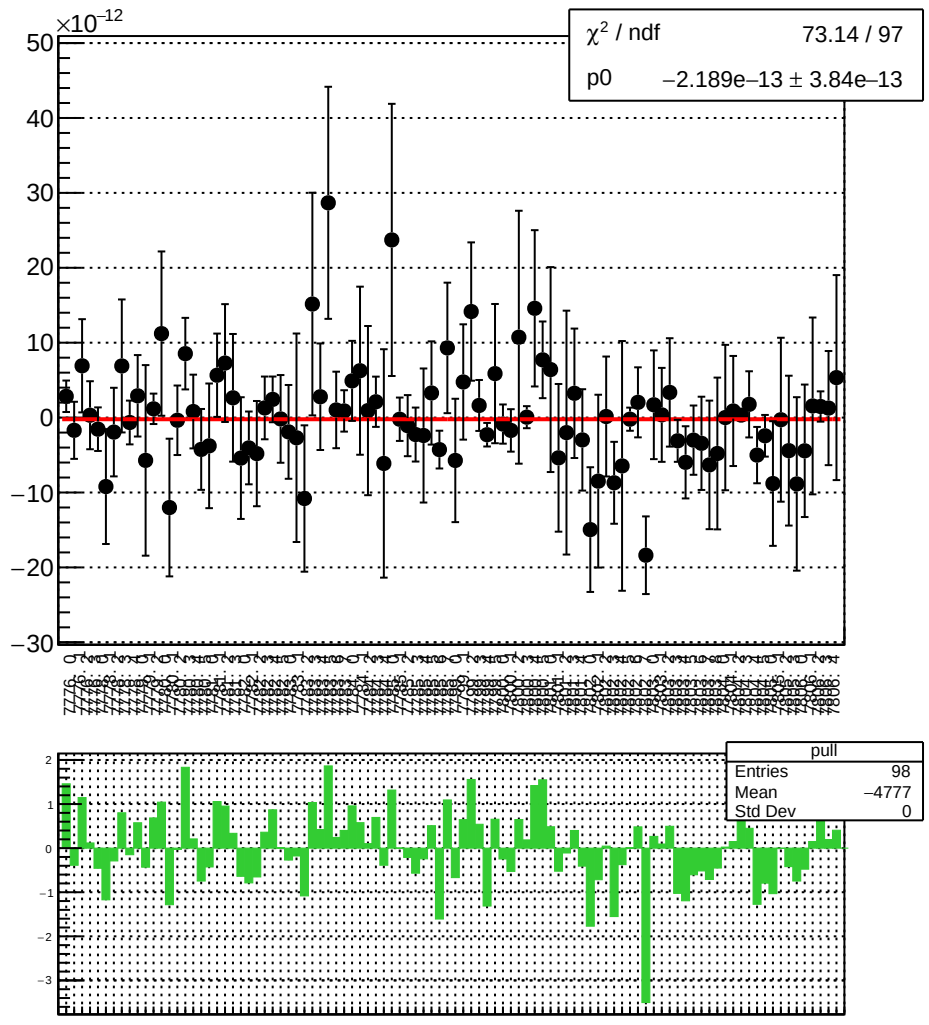

pull1D
Entries 98
Mean −0.02592
Std Dev 0.8759

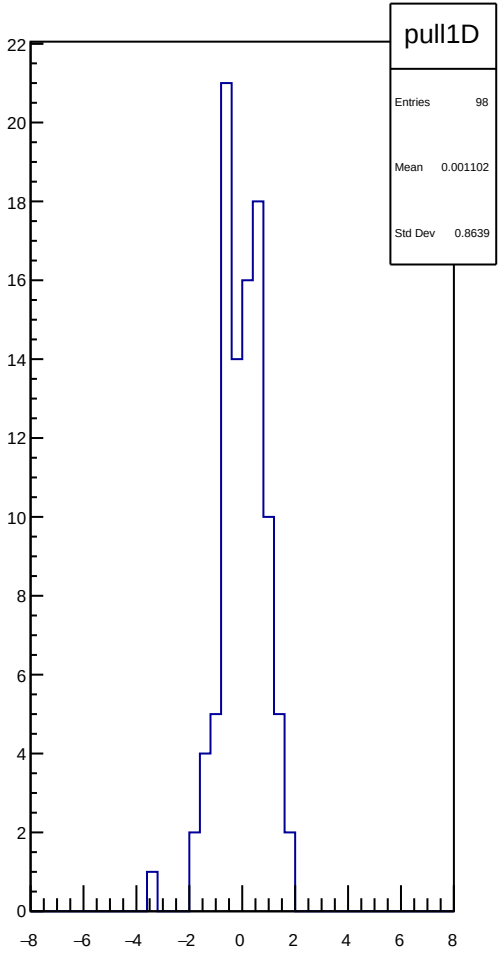

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.567e+04 / 97
p0 190 ± 0.1398
300
280
260
240
220
200
180
160
140

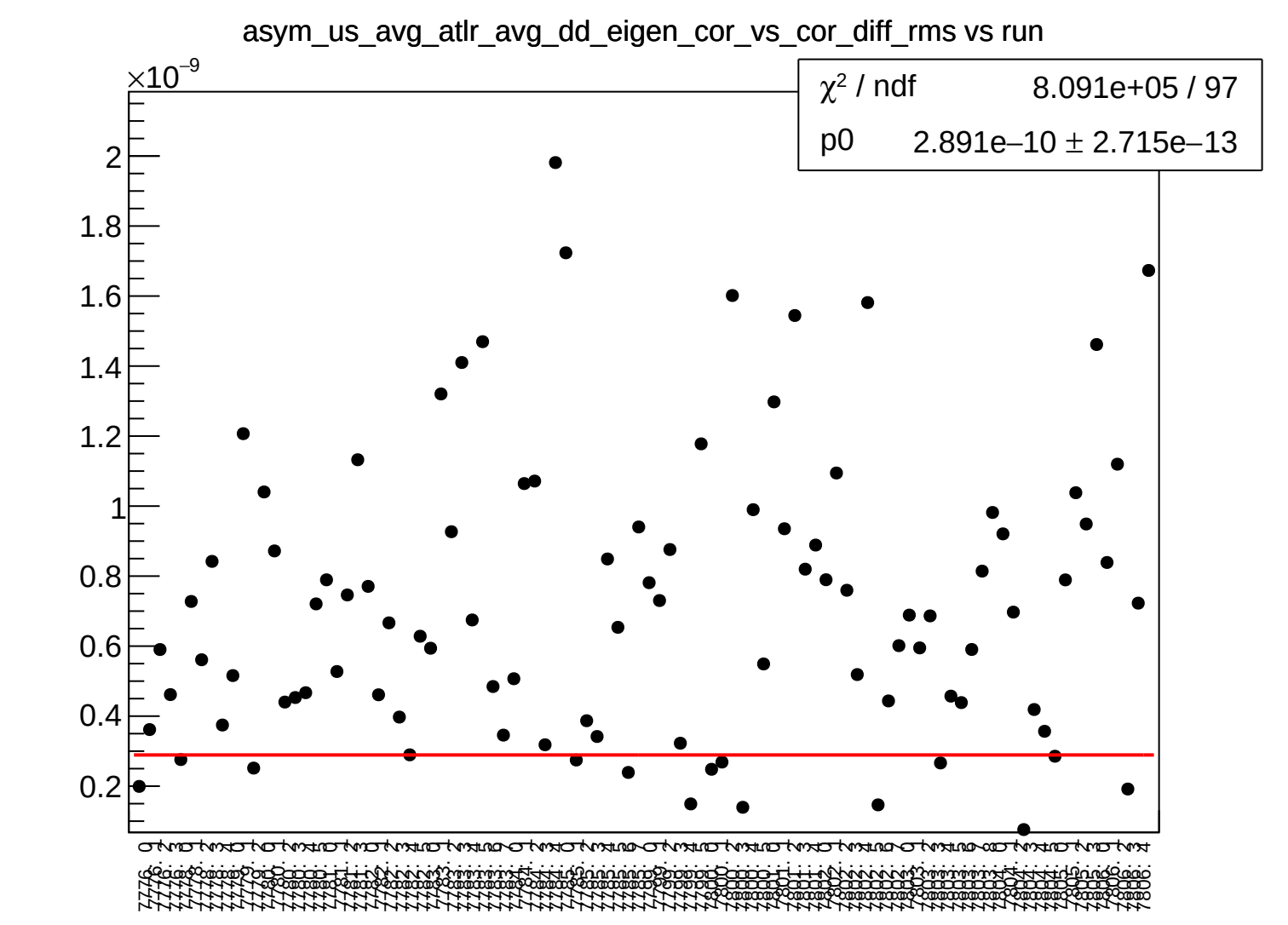

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.26 / 97
p0 0.2008 ± 0.1977
pull
Entries 98
Mean 300
Std Dev 0

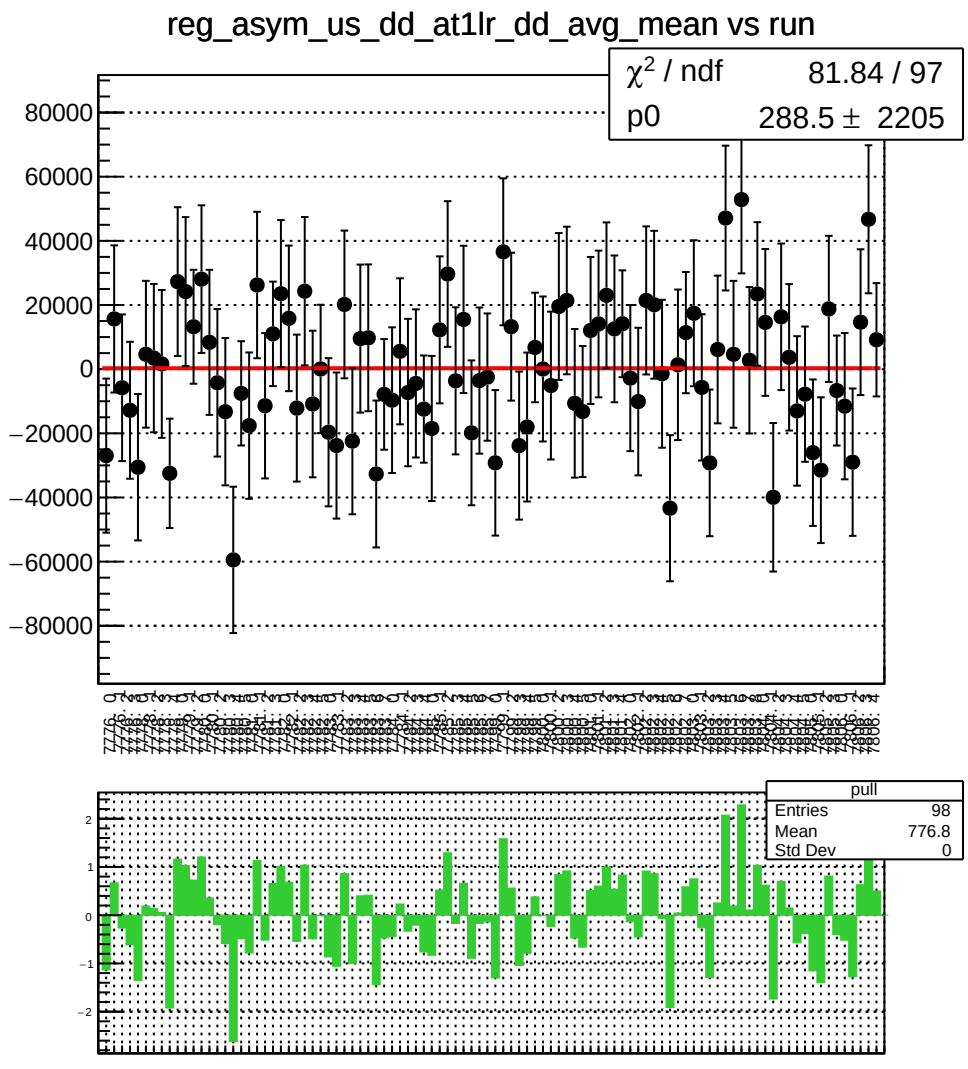

pull1D
Entries 98
Mean −0.02592
Std Dev 0.8759

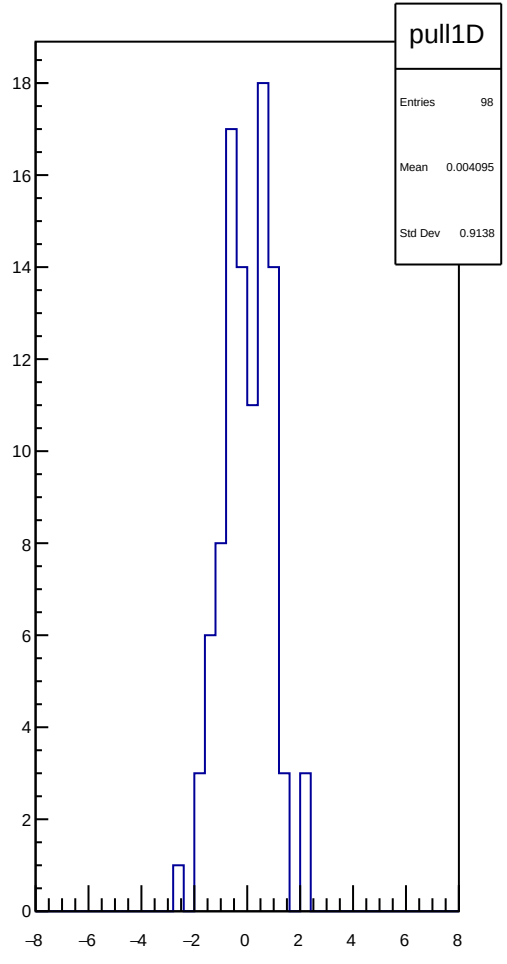

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.567e+04 / 97
p0 190 ± 0.1398
300
280
260
240
220
200
180
160
140

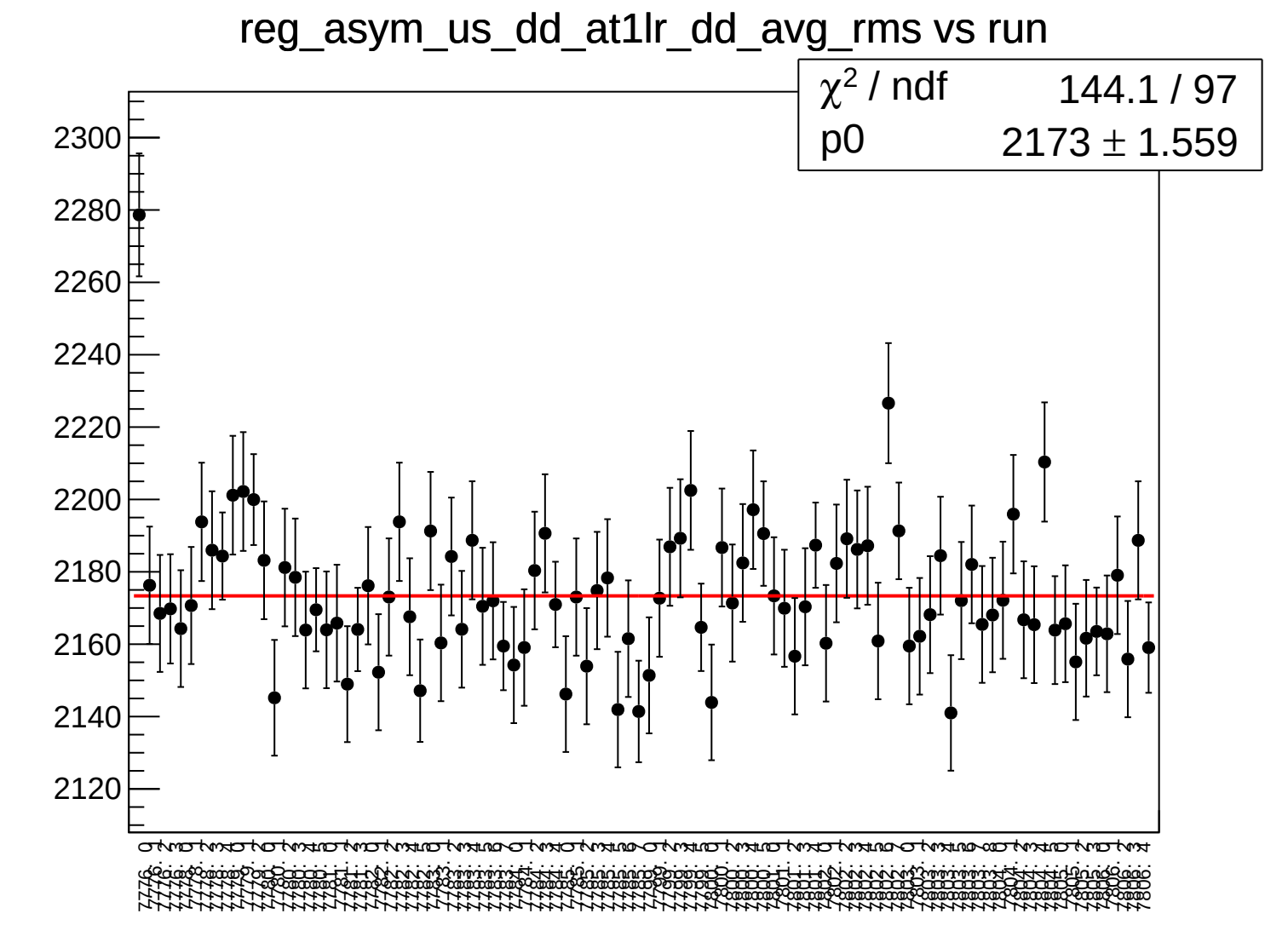

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.14 / 97
p0 −2.189e−13 ± 3.84e−13
pull
Entries 98
Mean −4777
Std Dev 0

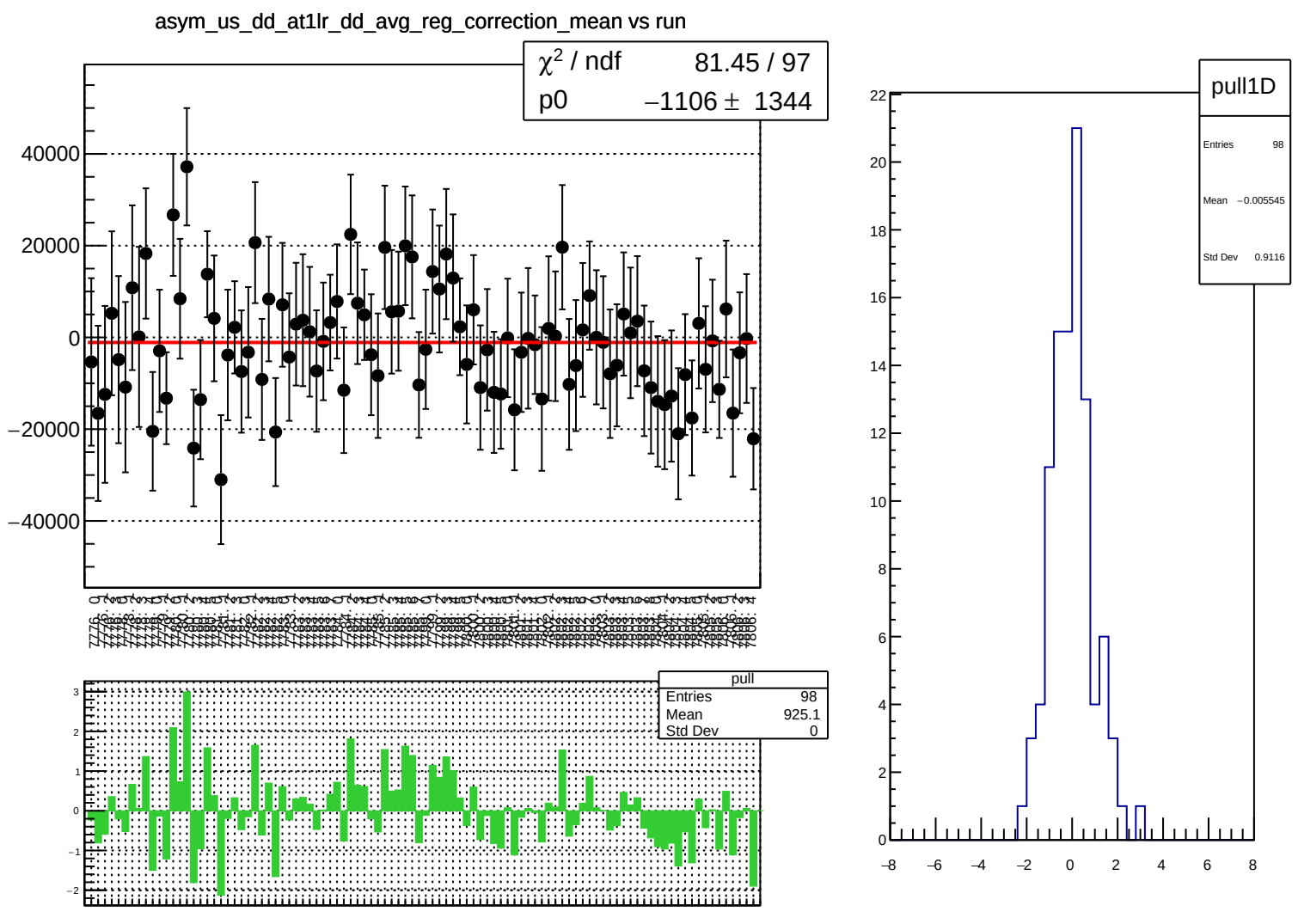

pull1D
Entries 98
Mean 0.001102
Std Dev 0.8639

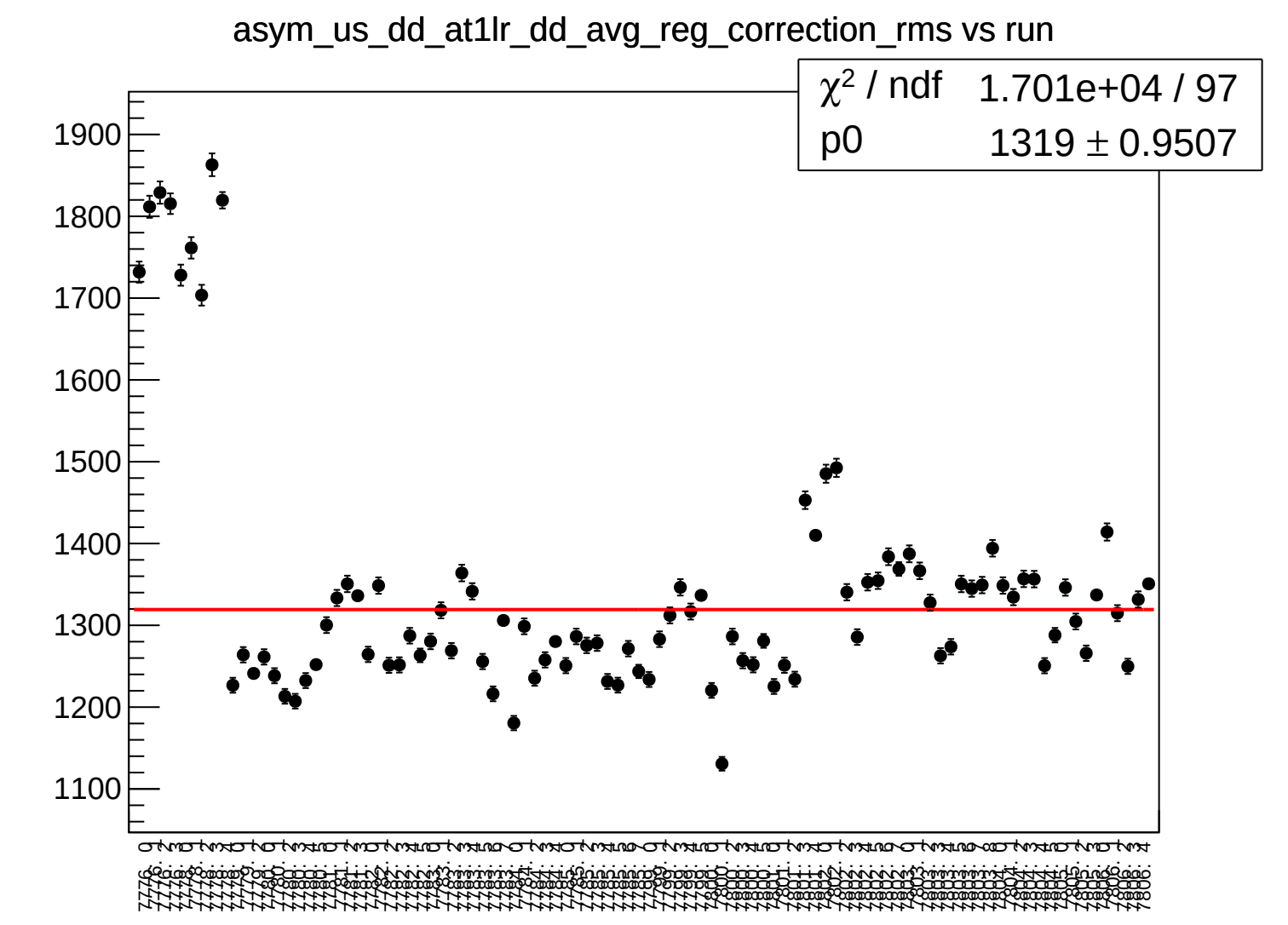

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.091e+05 / 97
p0 2.891e−10 ± 2.715e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

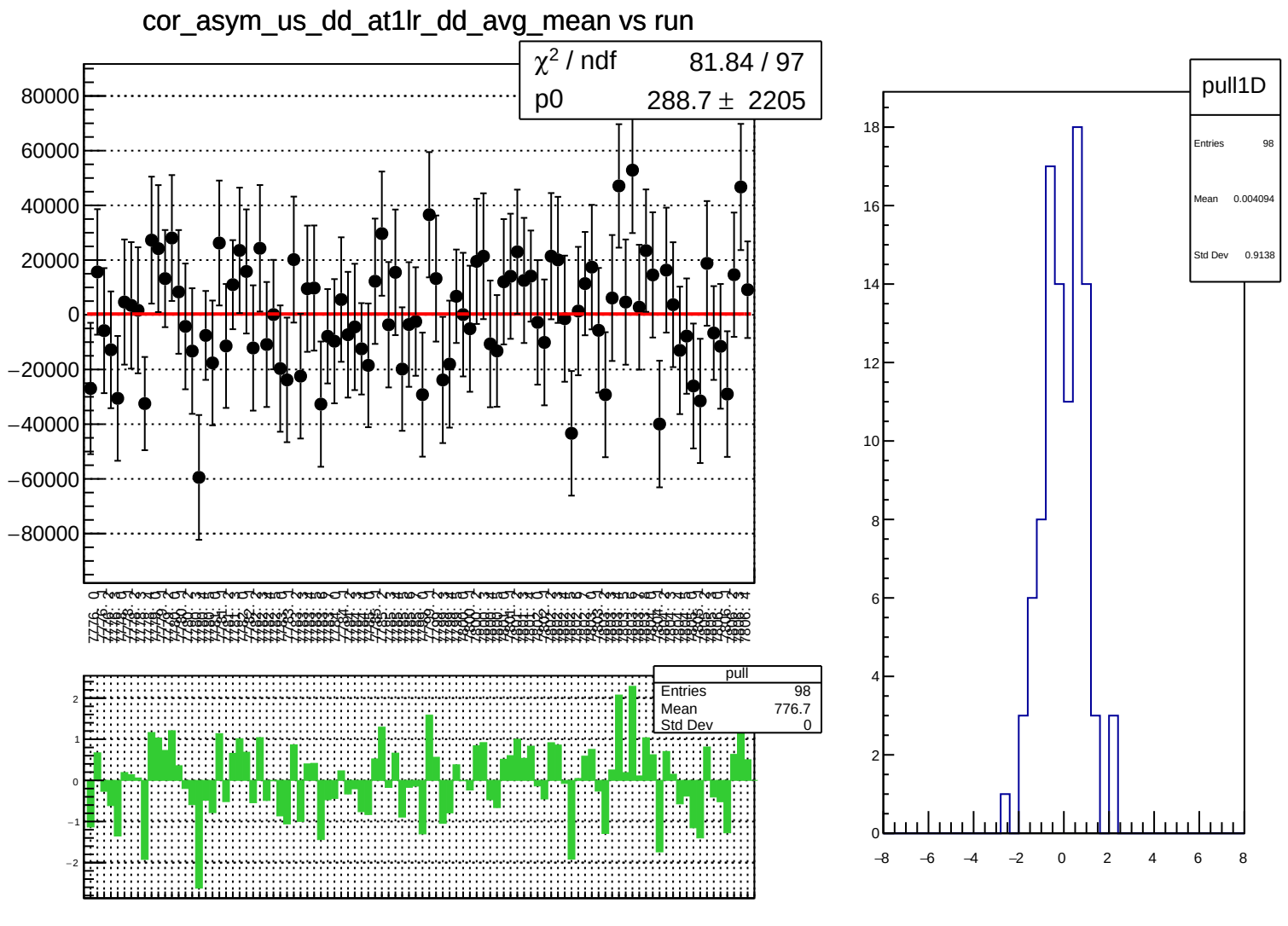

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.84 / 97
p0 288.5 ± 2205
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 776.8
Std Dev 0
2
1
0
−1
−2

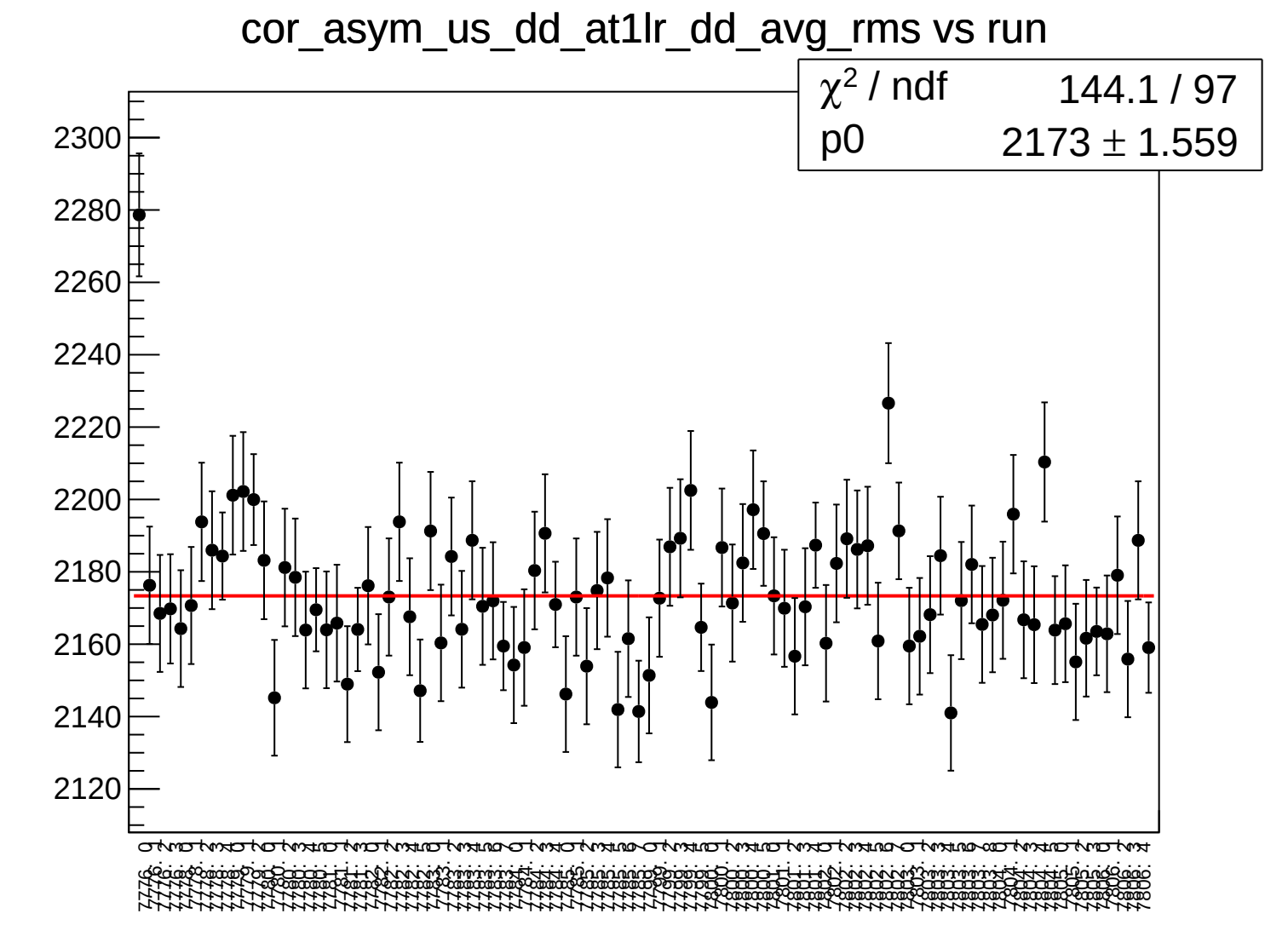

pull1D
Entries 98
Mean 0.004095
Std Dev 0.9138
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

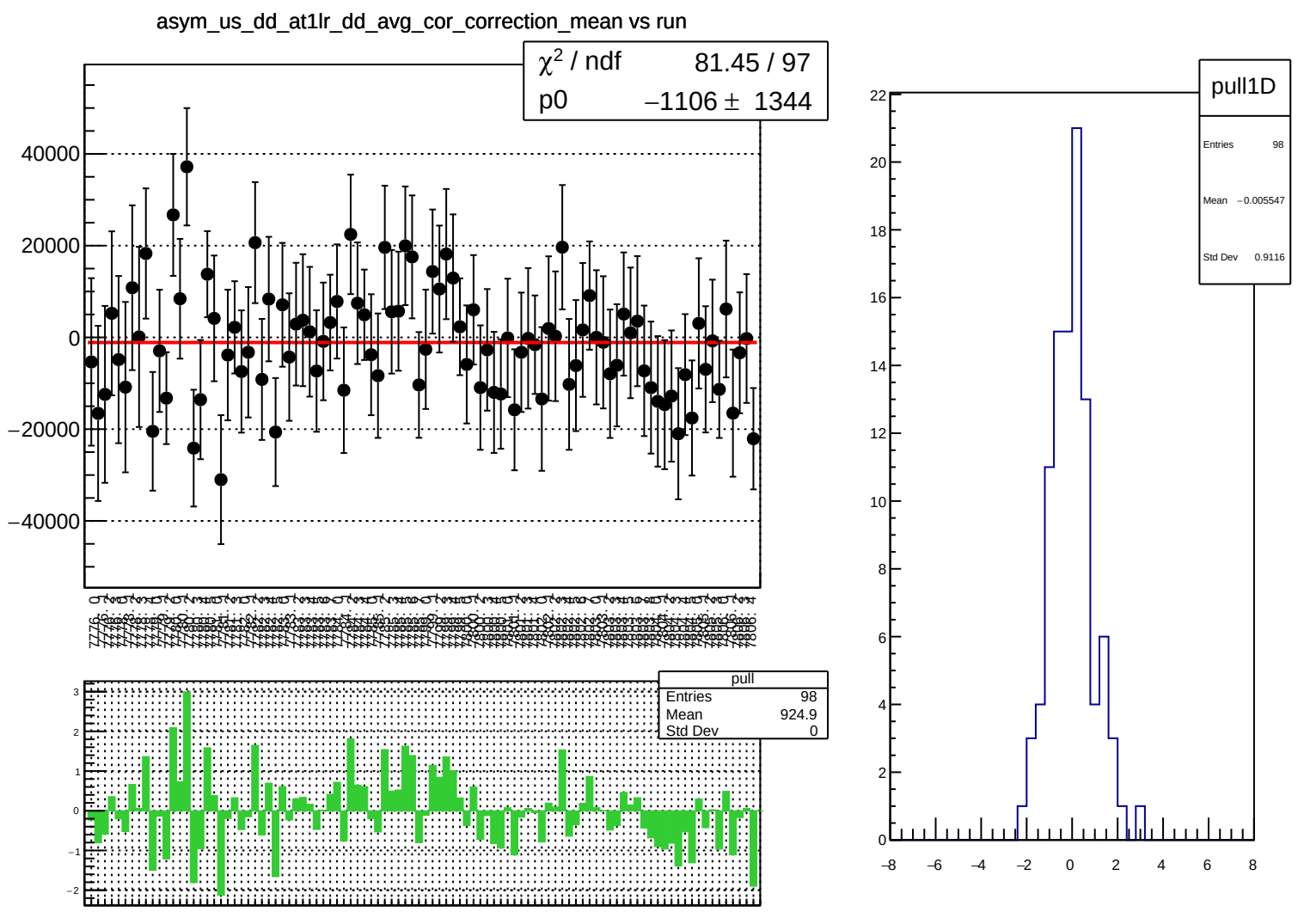

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 144.1 / 97
p0 2173 ± 1.559
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

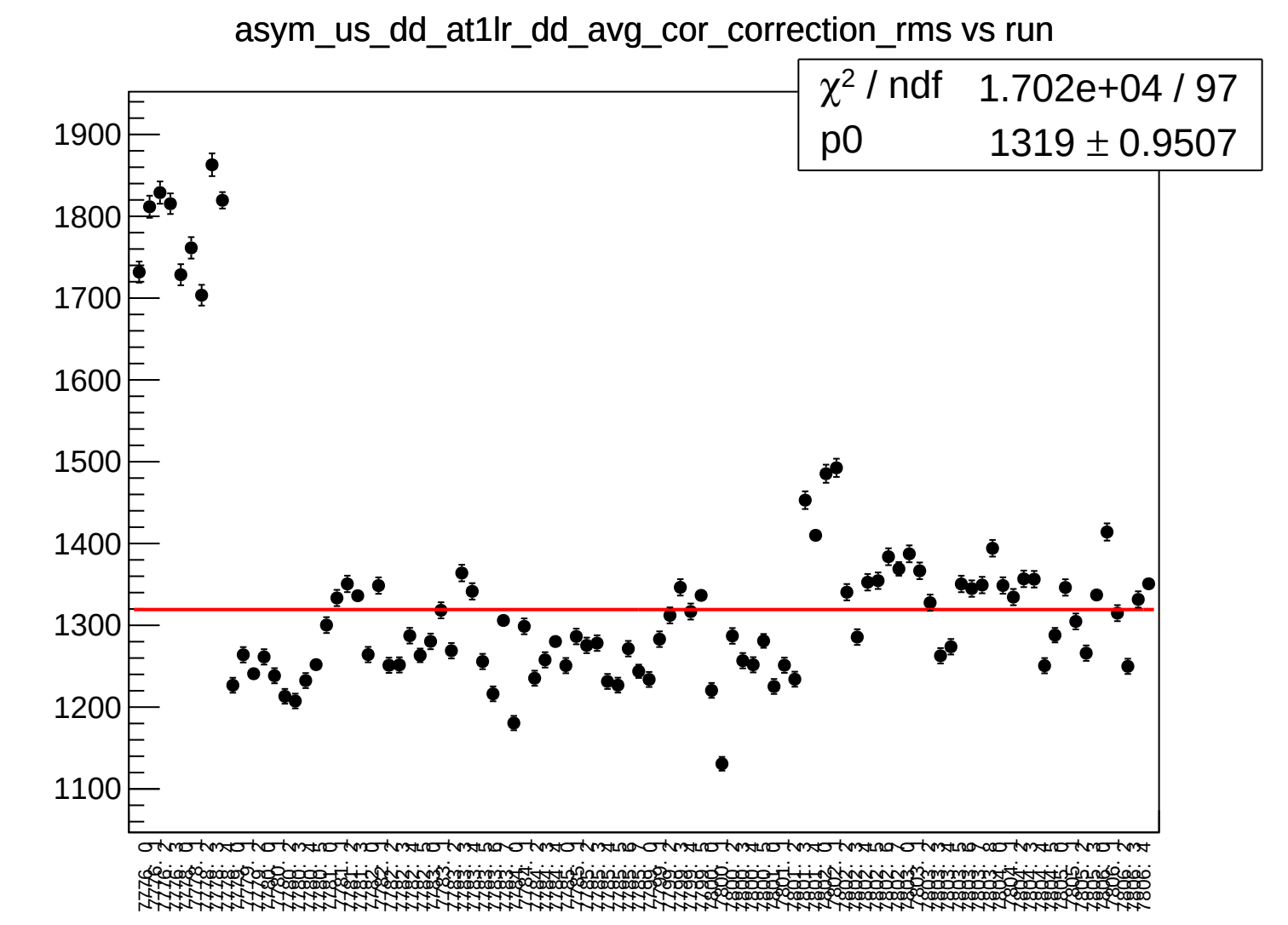

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 81.45 / 97
p0 −1106 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 925.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.005545
Std Dev 0.9116
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

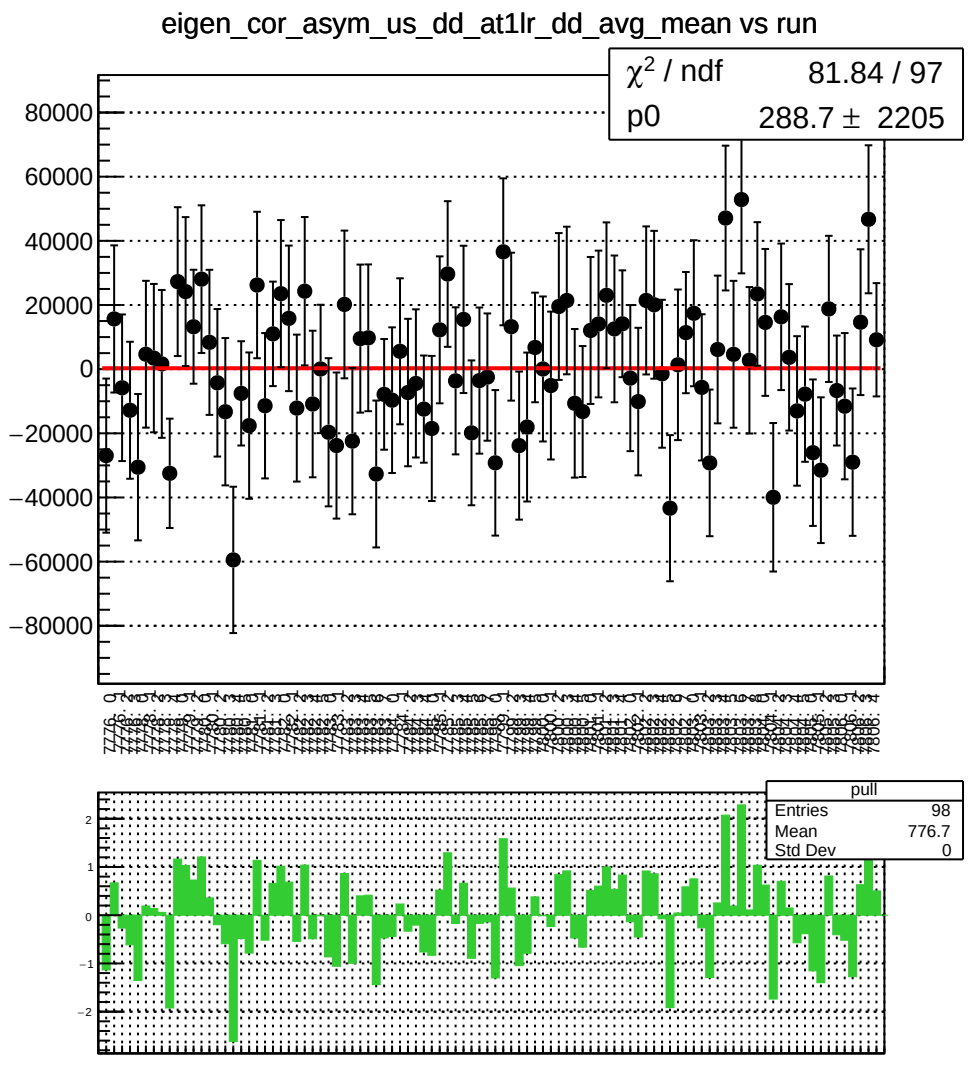

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.701e+04 / 97
p0 1319 ± 0.9507
1900
1800
1700
1600
1500
1400
1300
1200
1100

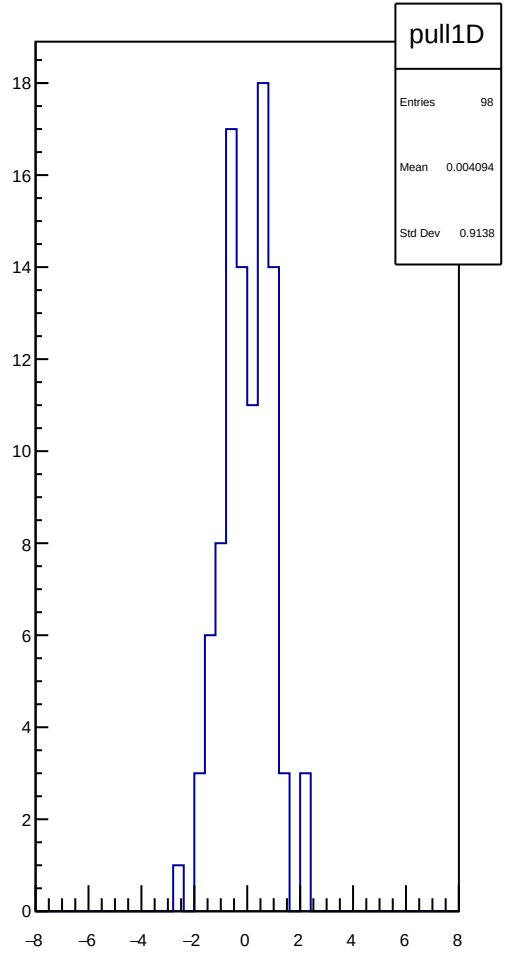

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.84 / 97
p0 288.7 ± 2205
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 776.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.004094
Std Dev 0.9138
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

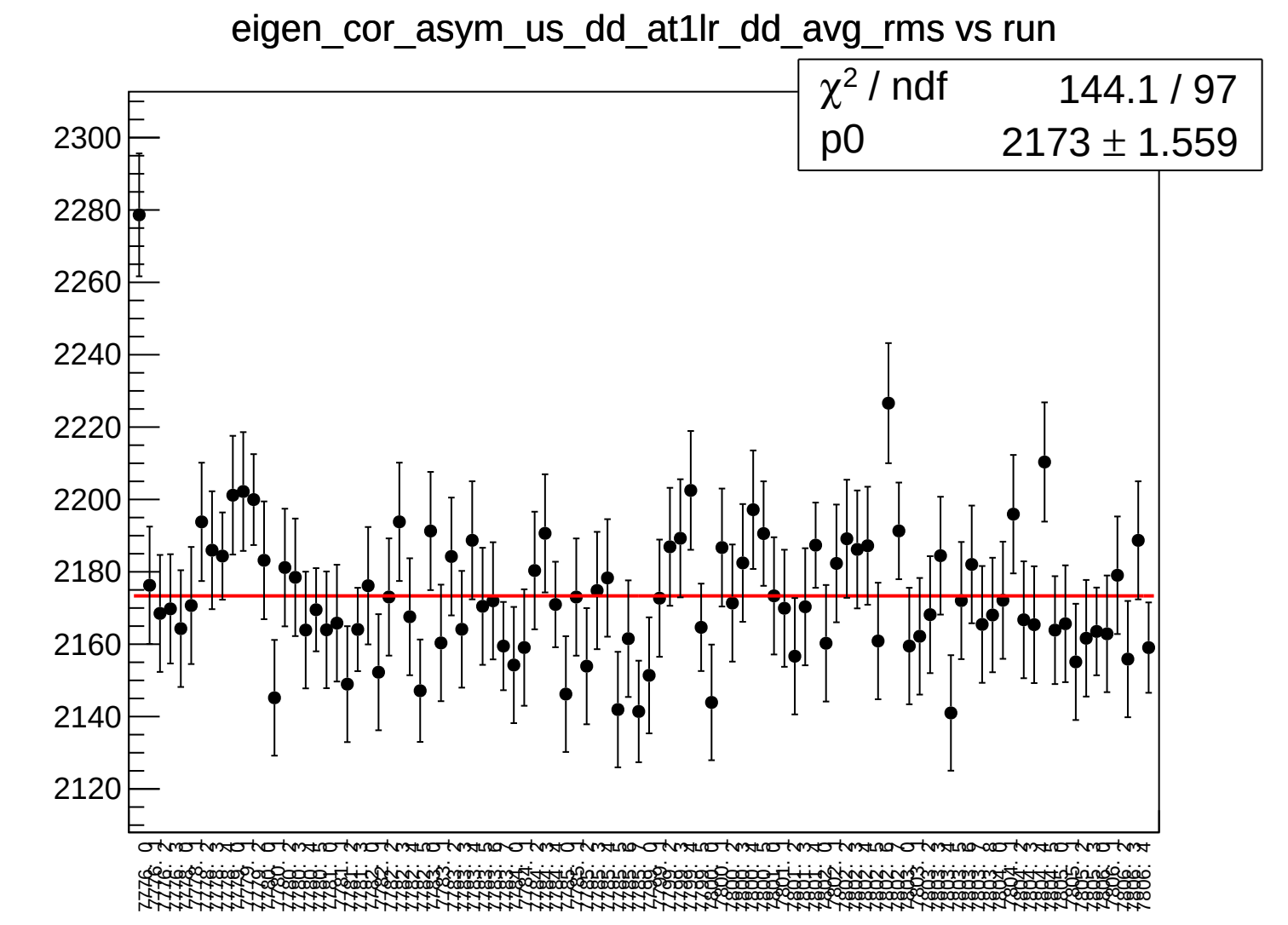

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 144.1 / 97
p0 2173 ± 1.559
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

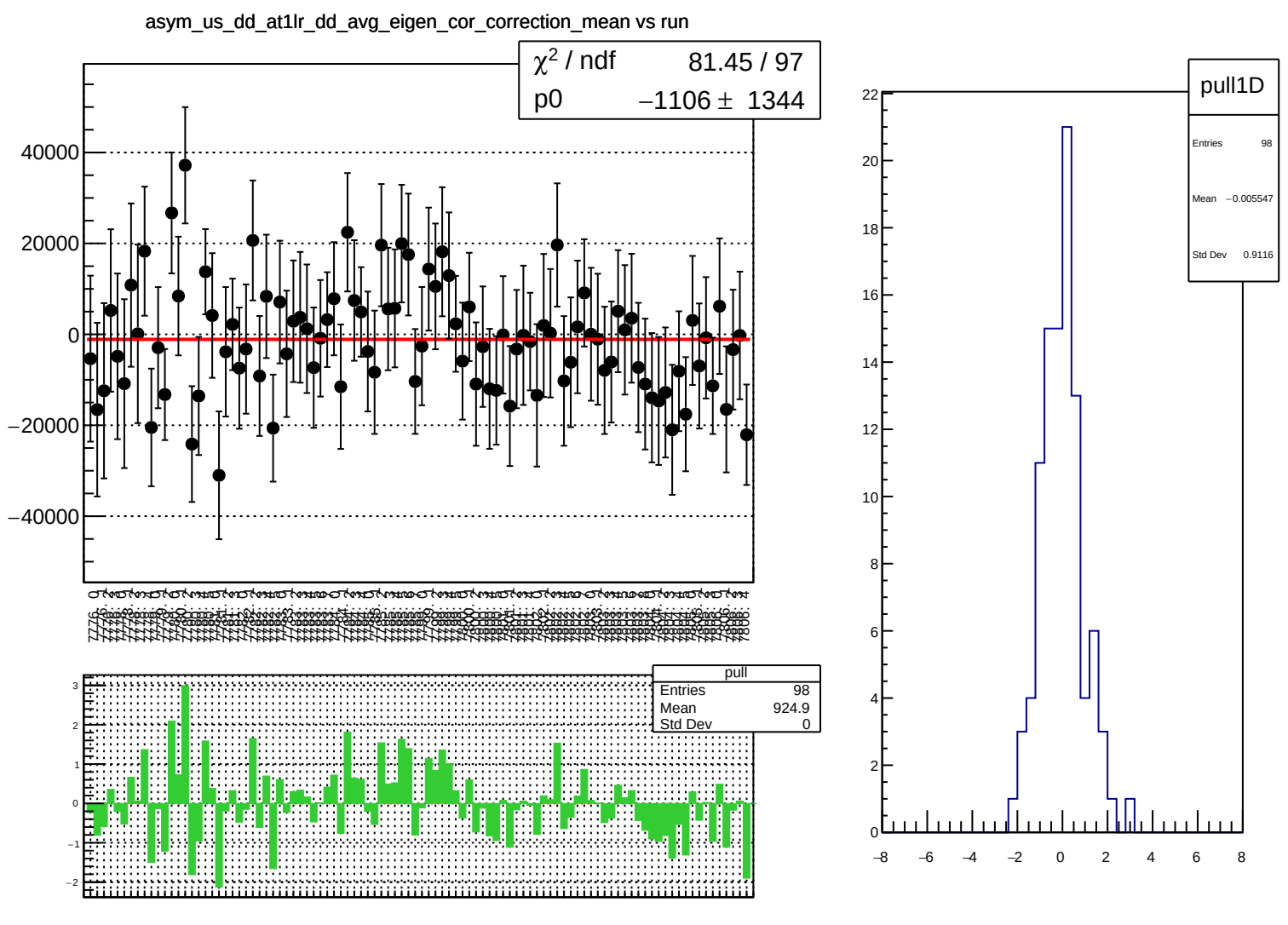

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 81.45 / 97
p0 −1106 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 924.9
Std Dev 0
pull1D
Entries 98
Mean −0.005547
Std Dev 0.9116

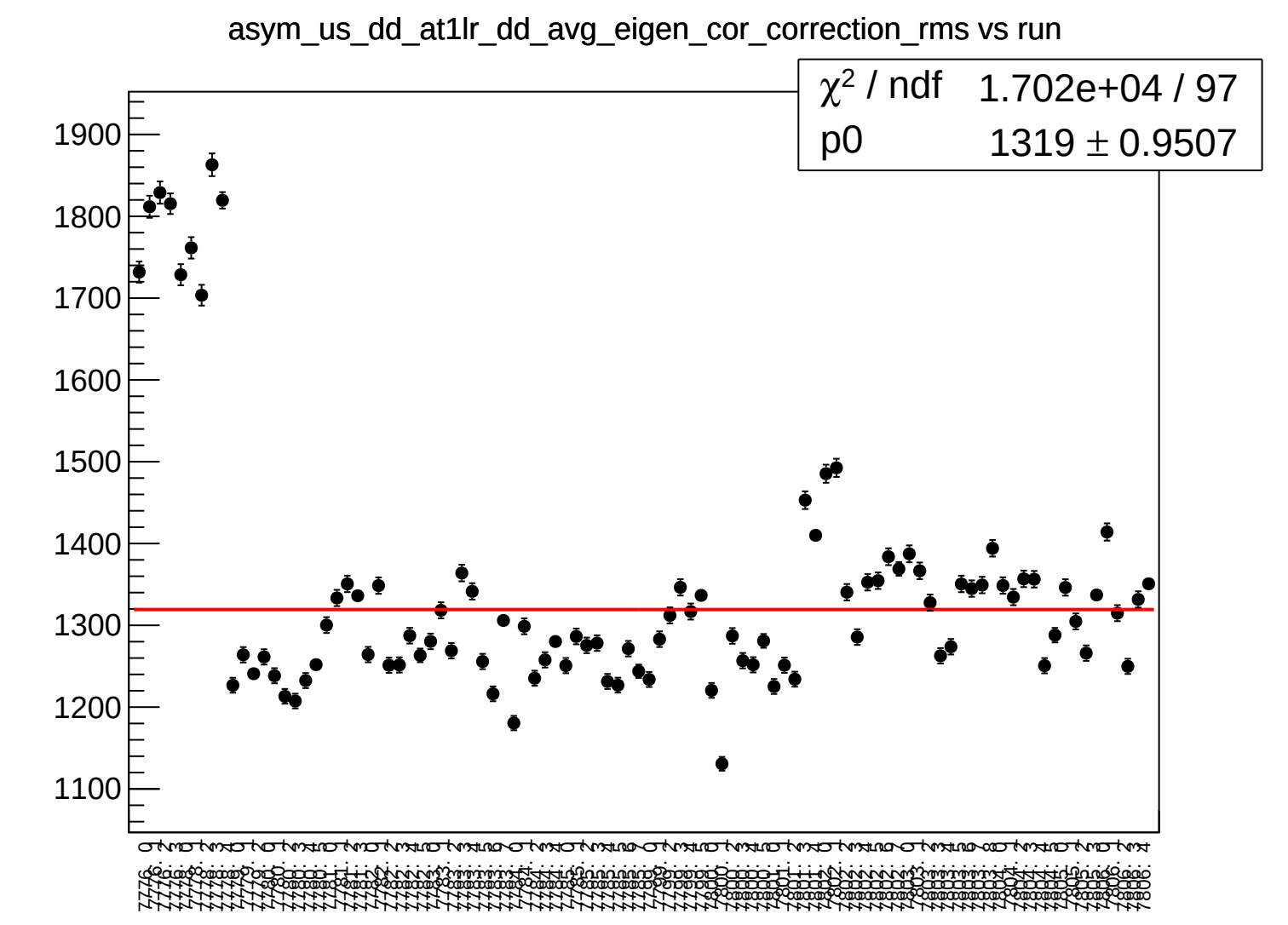

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.702e+04 / 97
p0 1319 ± 0.9507
1900
1800
1700
1600
1500
1400
1300
1200
1100

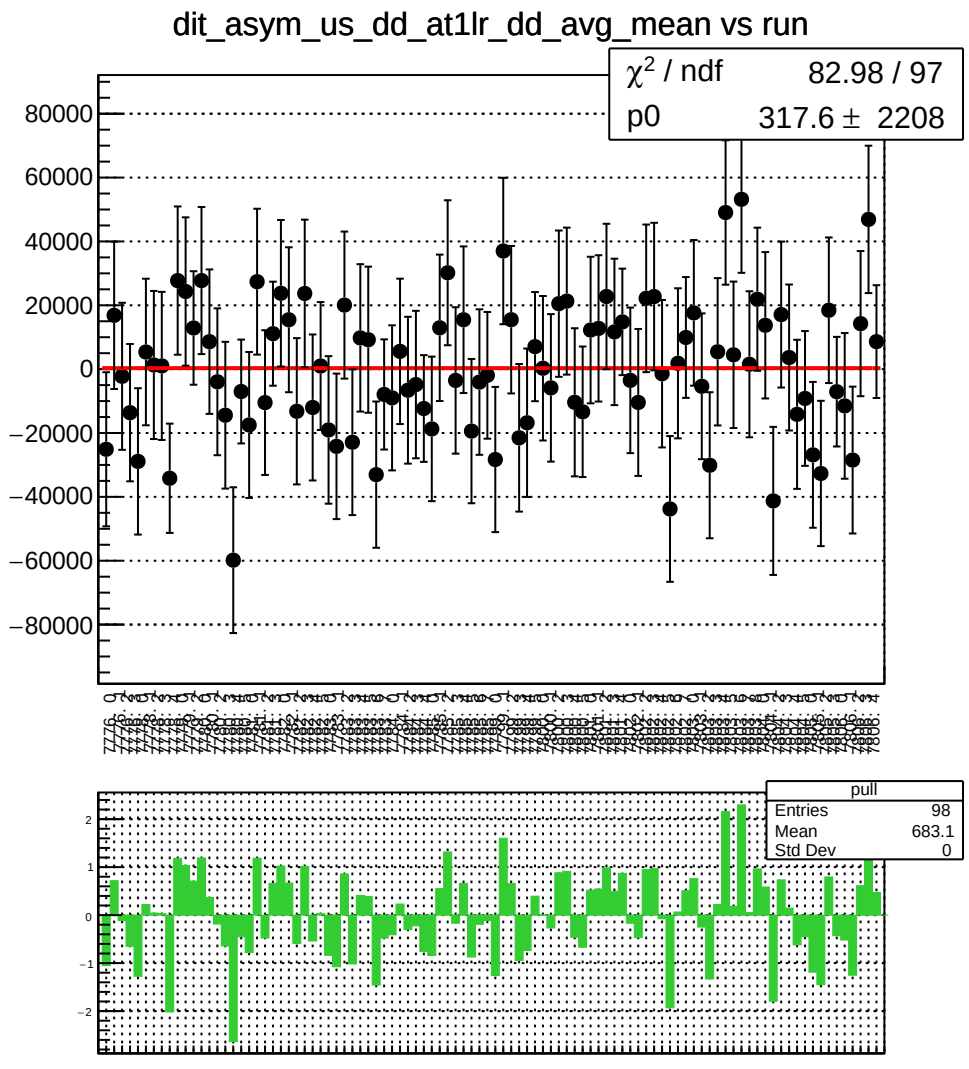

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.84 / 97
p0 288.7 ± 2205
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 776.7
Std Dev 0
2
1
0
−1
−2

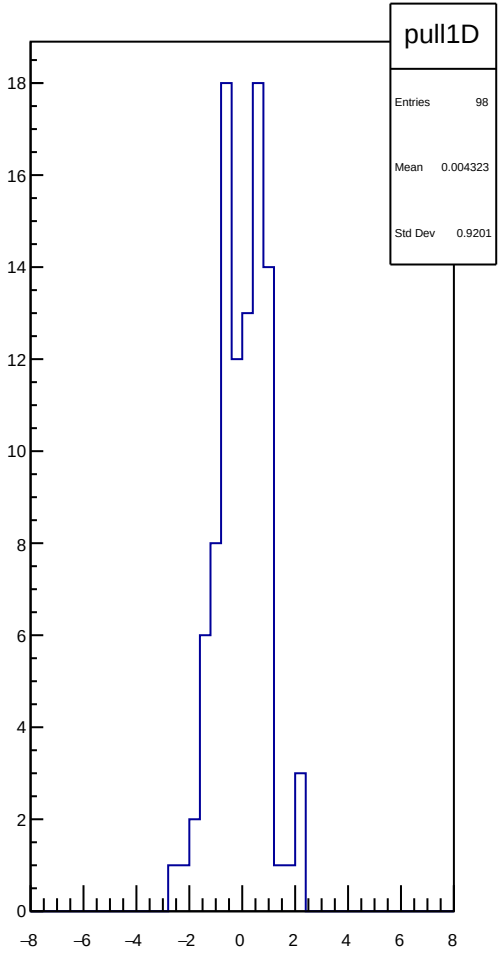

pull1D
Entries 98
Mean 0.004094
Std Dev 0.9138
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

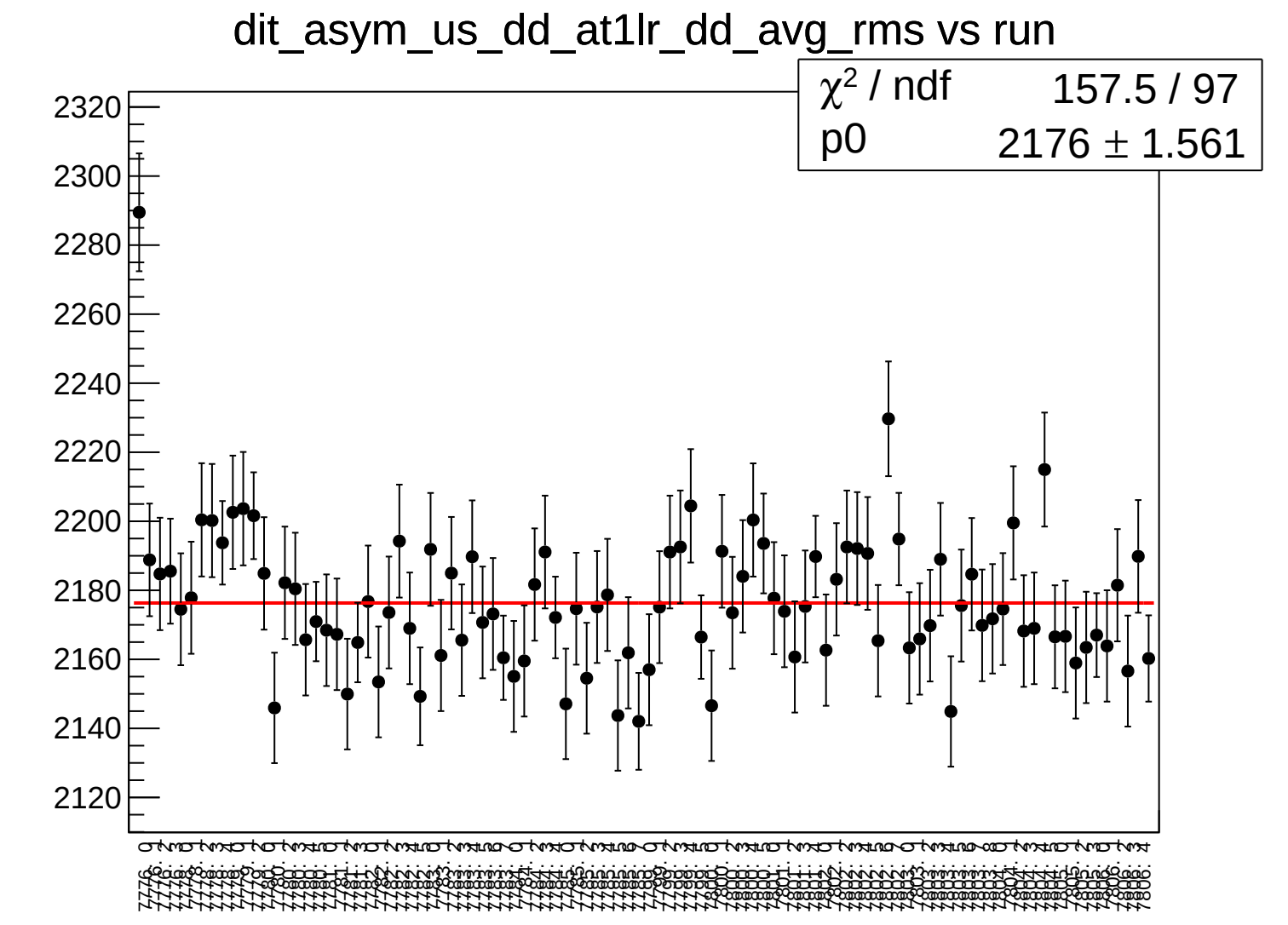

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 144.1 / 97
p0 2173 ± 1.559
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

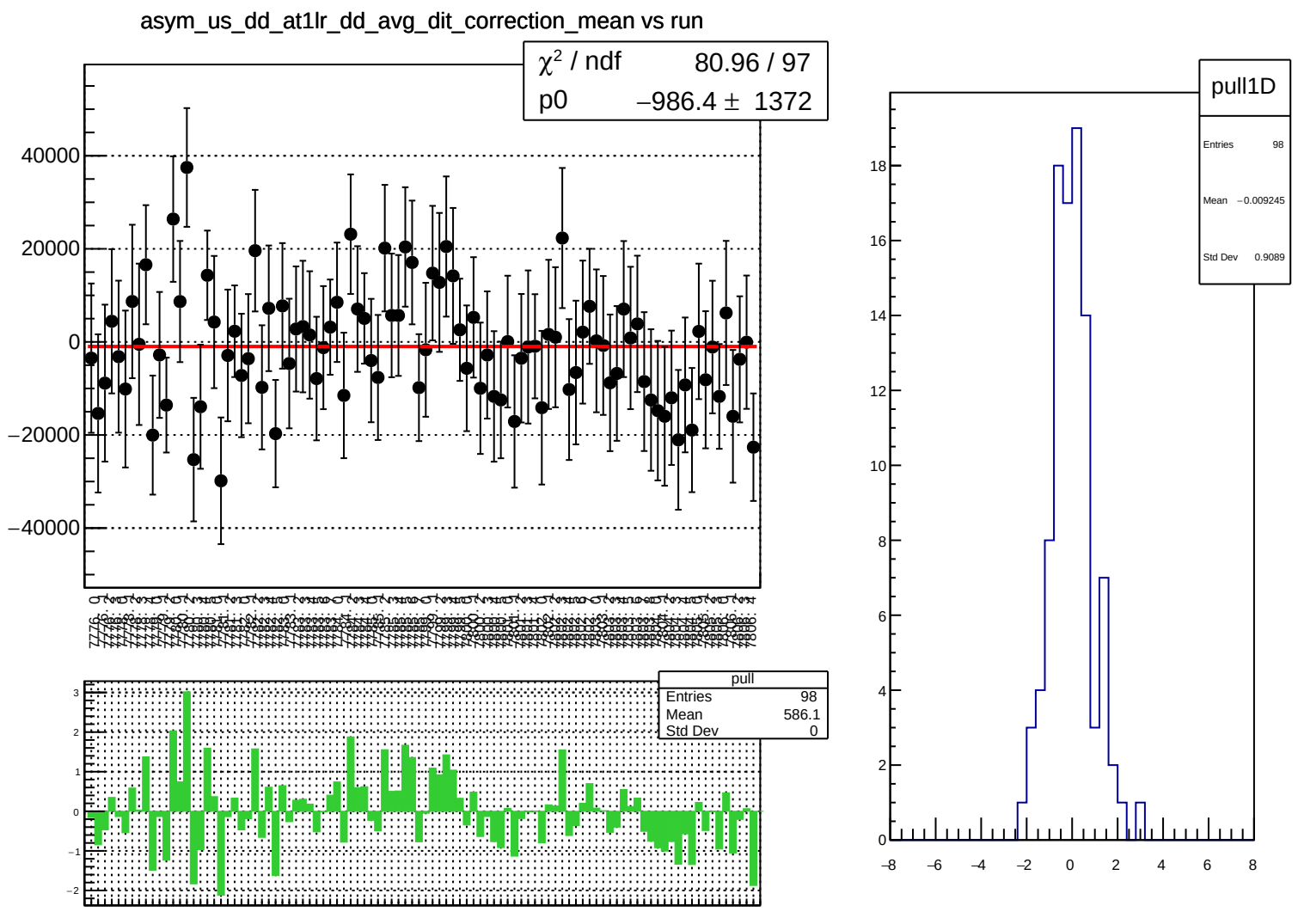

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.45 / 97
p0 −1106 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 924.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.005547
Std Dev 0.9116
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

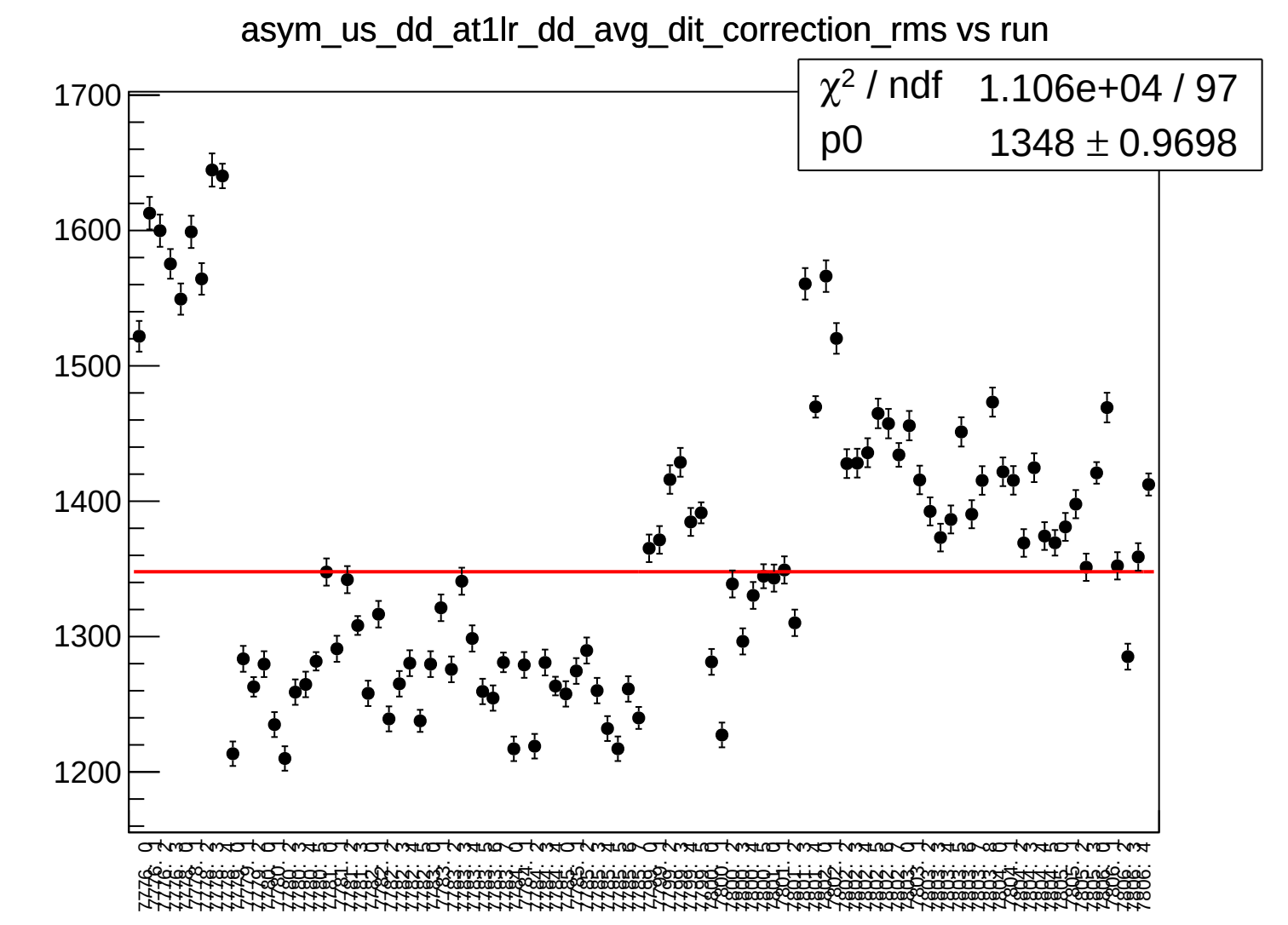

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.702e+04 / 97
p0 1319 ± 0.9507
1900
1800
1700
1600
1500
1400
1300
1200
1100

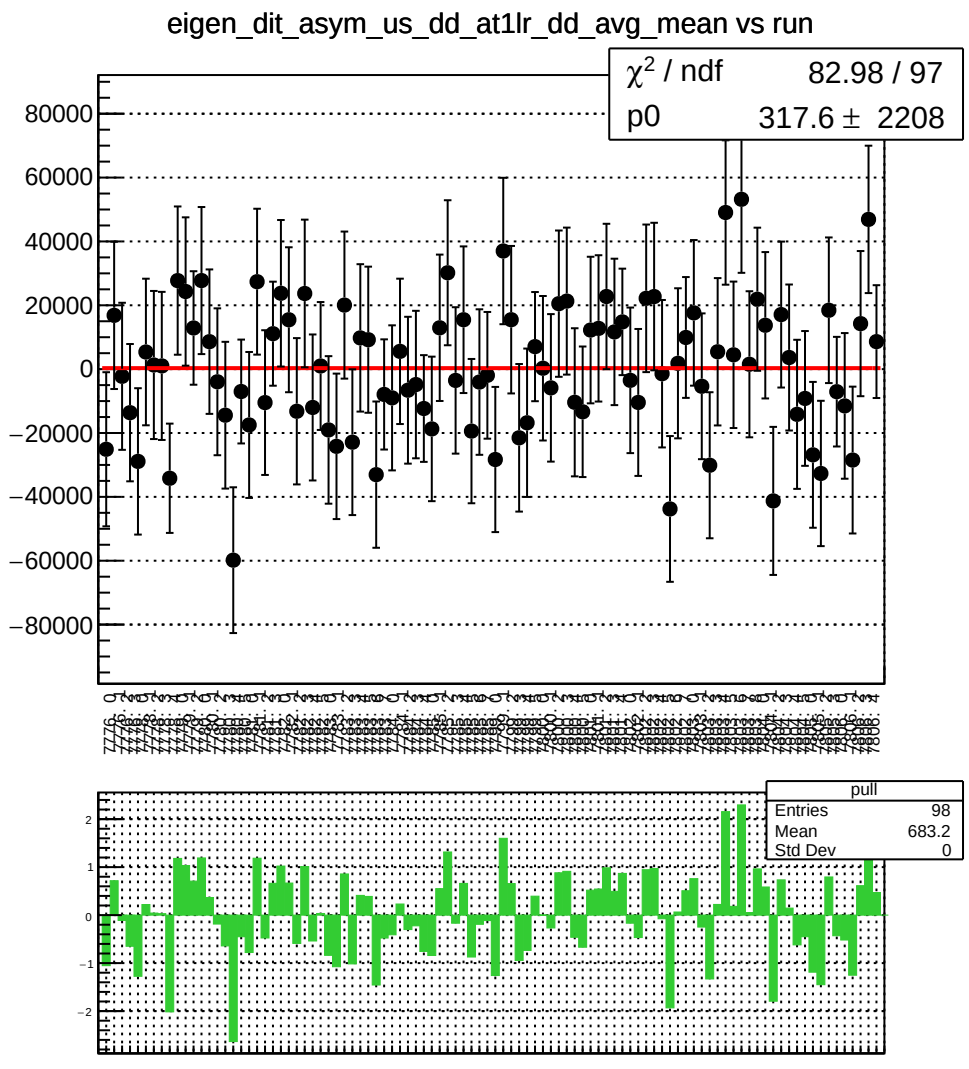

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 82.98 / 97
p0 317.6 ± 2208
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 683.1
Std Dev 0
2
1
0
−1
−2

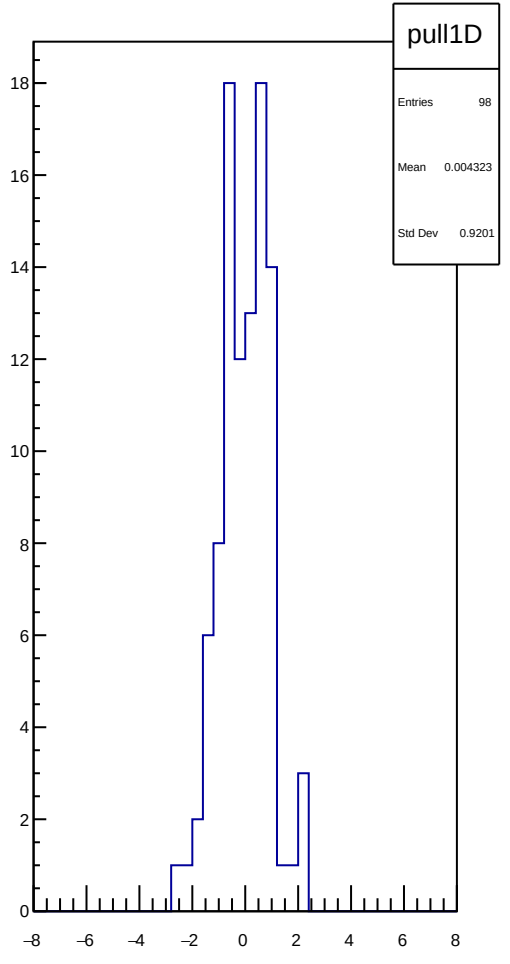

pull1D
Entries 98
Mean 0.004323
Std Dev 0.9201
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

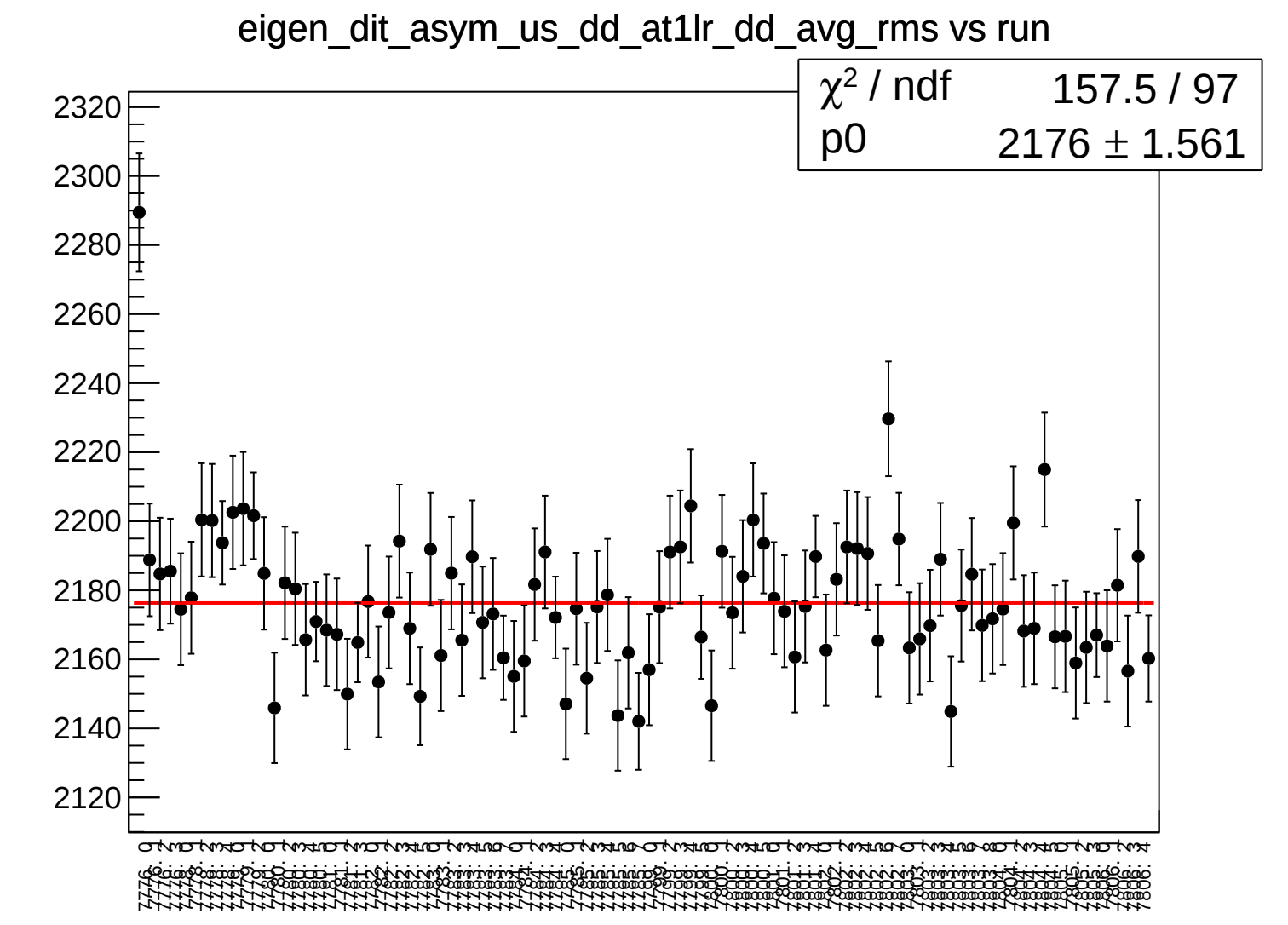

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 157.5 / 97
p0 2176 ± 1.561
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

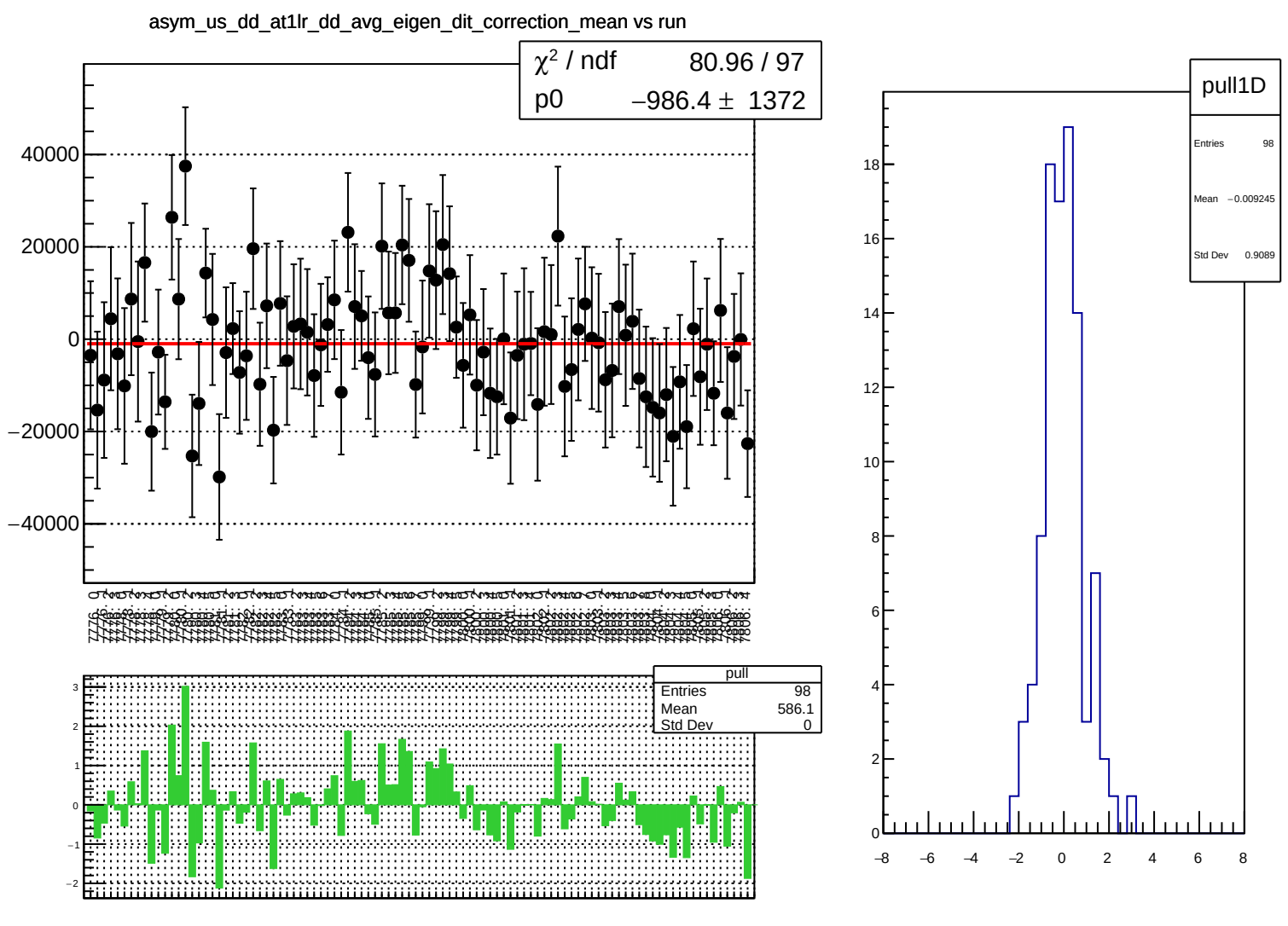

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 80.96 / 97
p0 −986.4 ± 1372
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 586.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.009245
Std Dev 0.9089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

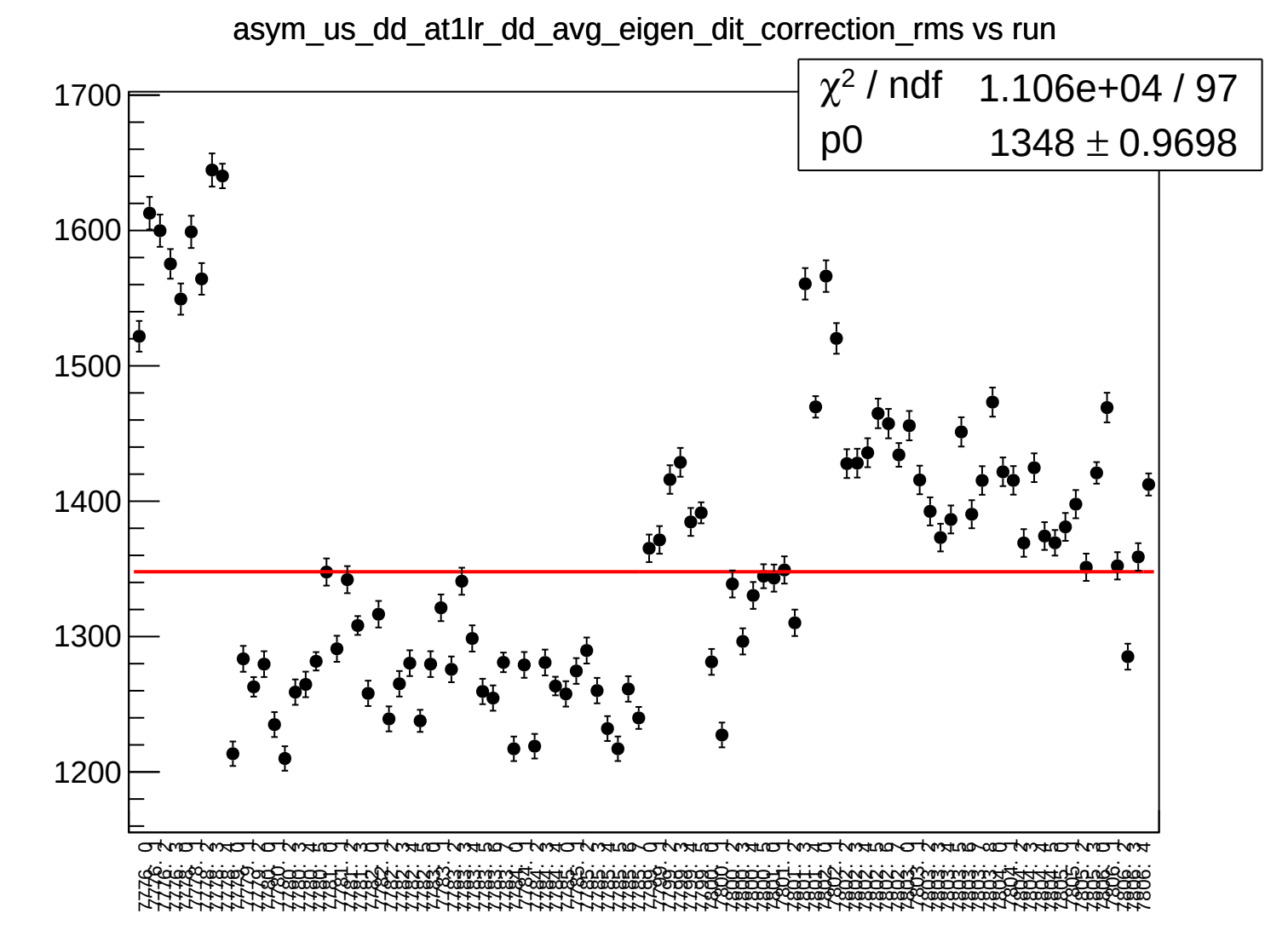

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.106e+04 / 97
p0 1348 ± 0.9698
1700
1600
1500
1400
1300
1200

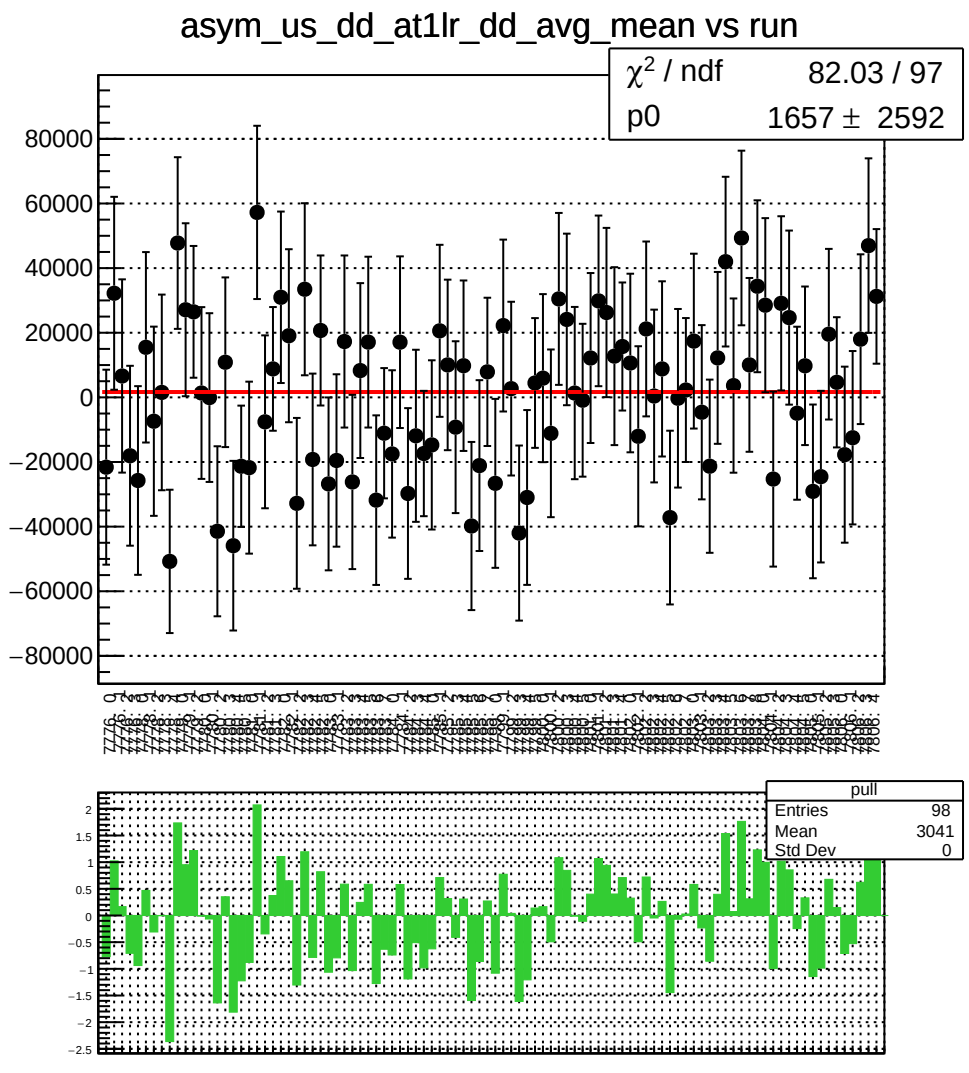

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 82.98 / 97
p0 317.6 ± 2208
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 683.2
Std Dev 0
2
1
0
−1
−2

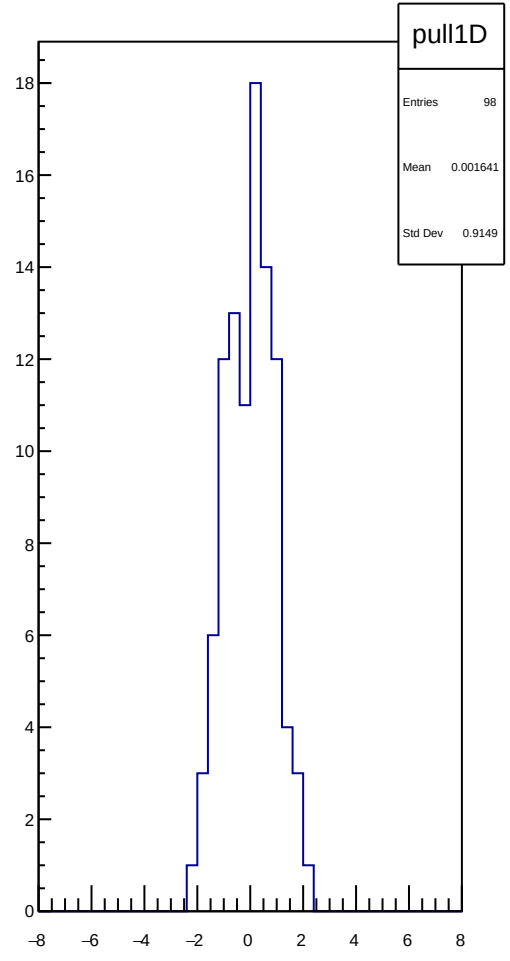

pull1D
Entries 98
Mean 0.004323
Std Dev 0.9201
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

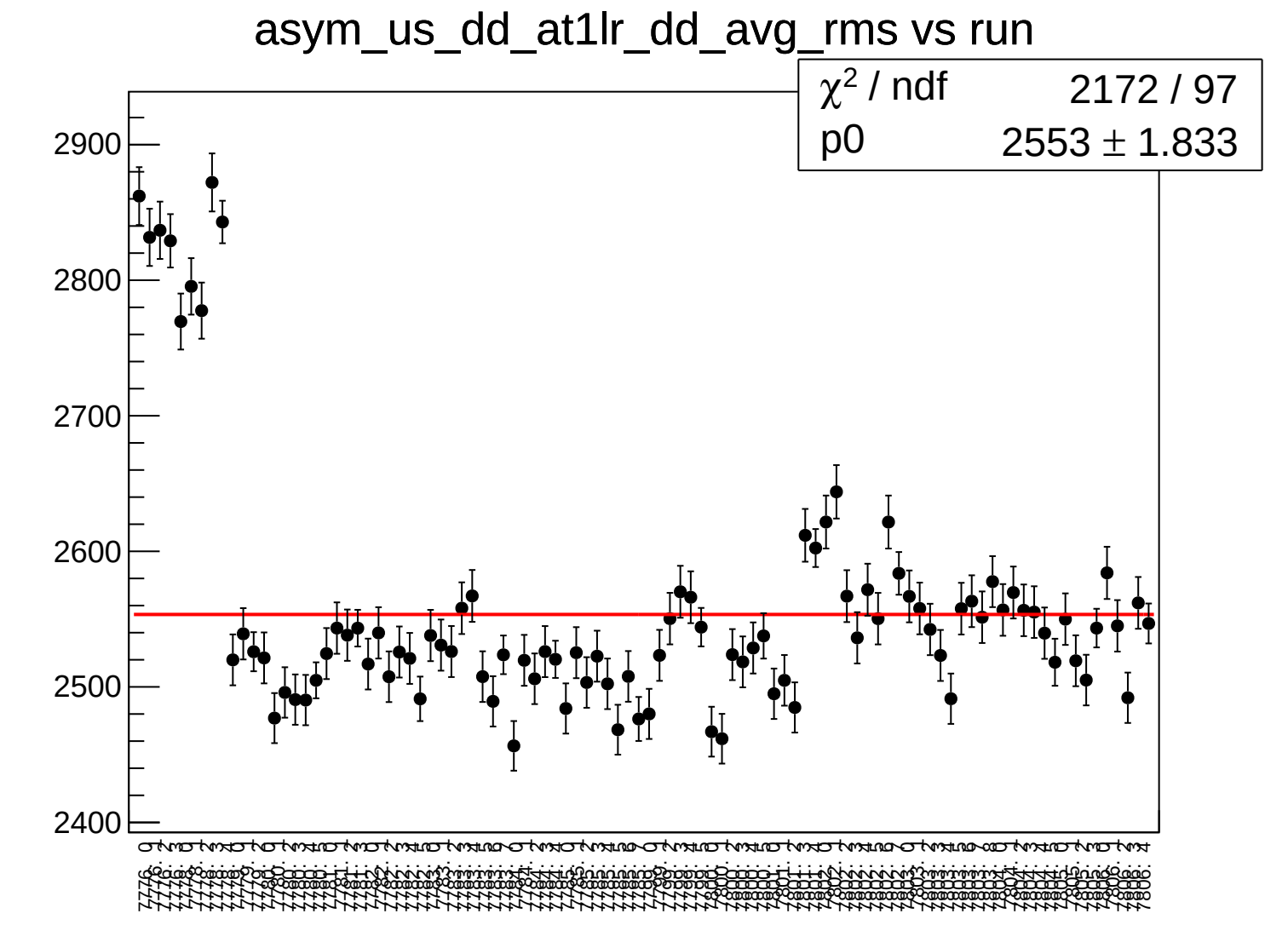

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 157.5 / 97
p0 2176 ± 1.561
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

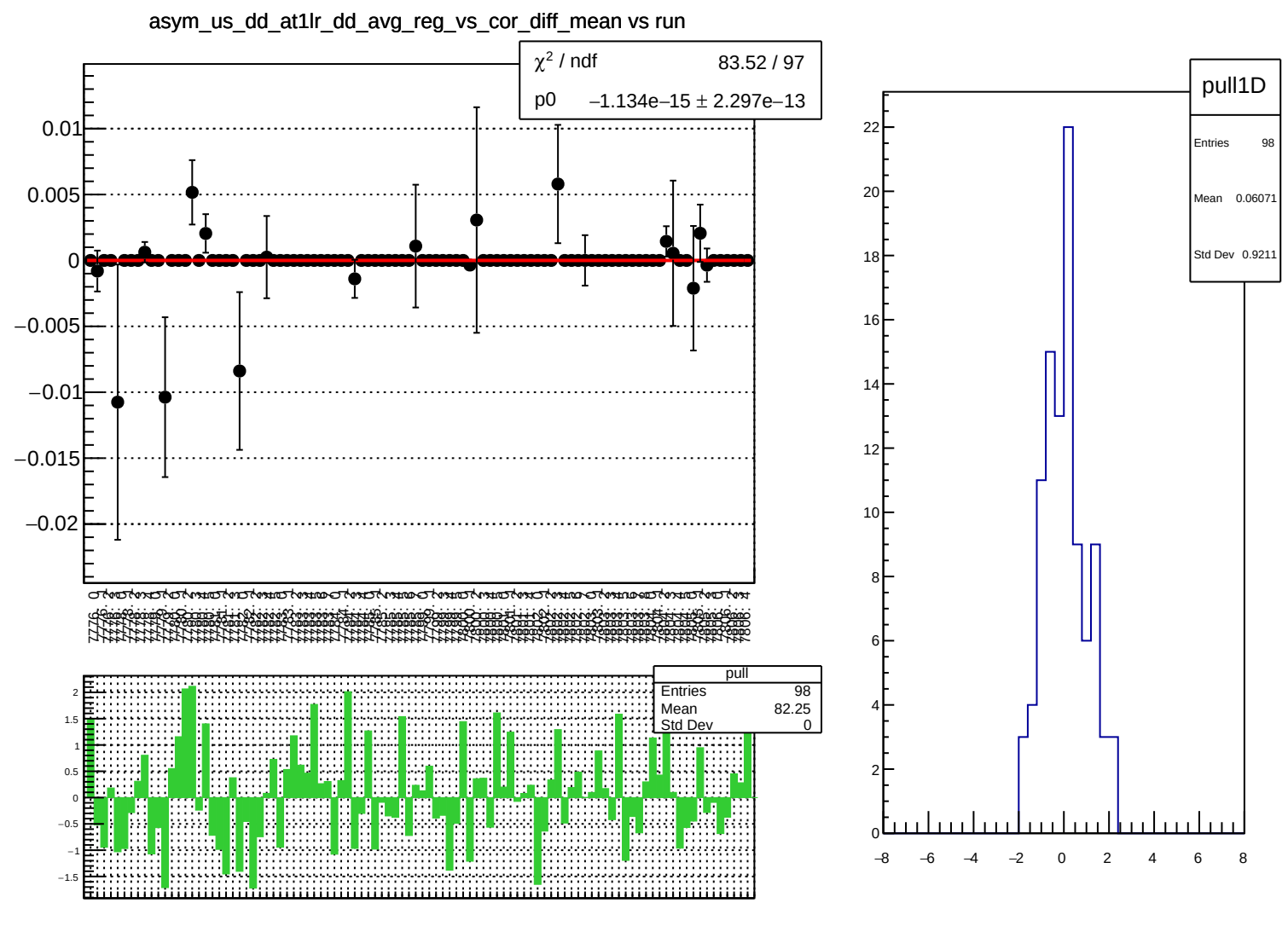

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.96 / 97
p0 −986.4 ± 1372
40000
20000
0
−20000
−40000
pull
Entries 98
Mean 586.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.009245
Std Dev 0.9089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

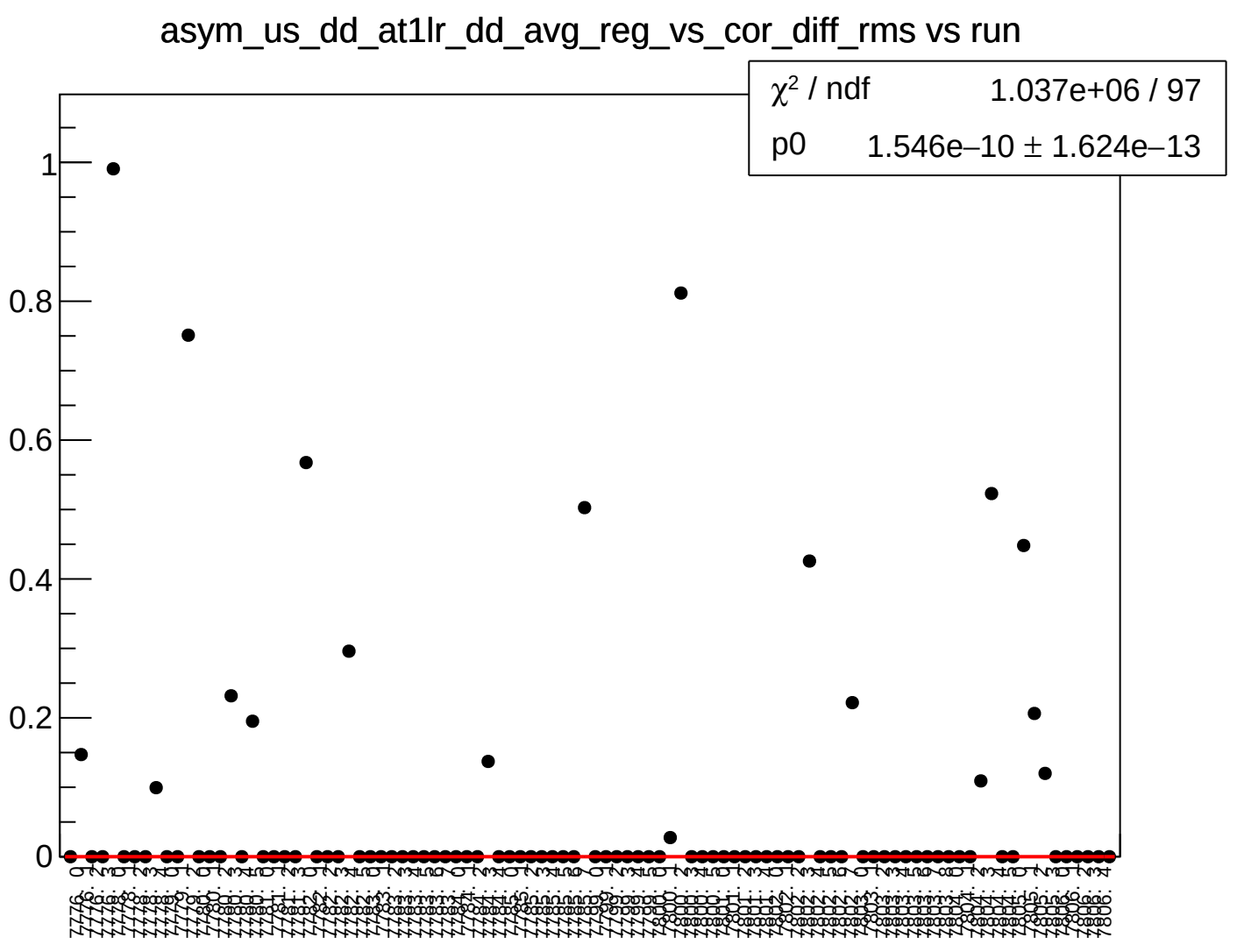

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.106e+04 / 97
p0 1348 ± 0.9698
1700
1600
1500
1400
1300
1200

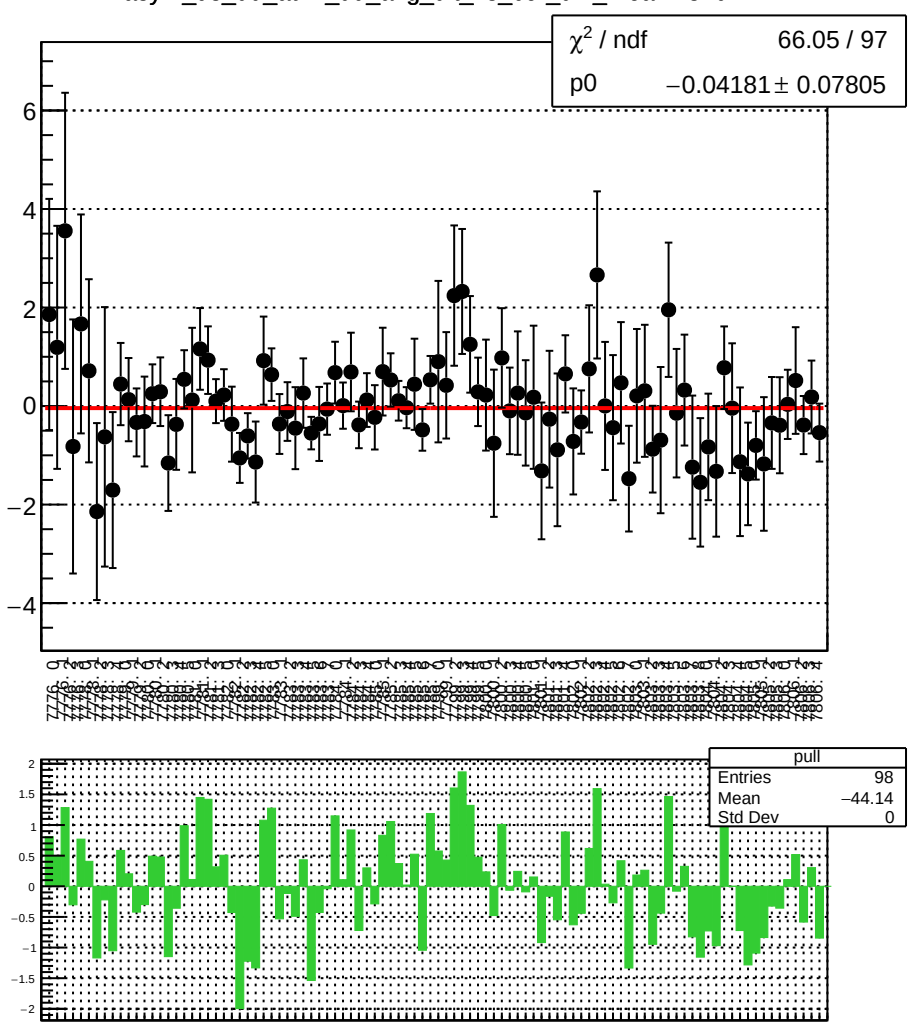

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 82.03 / 97
p0 1657 ± 2592
pull
Entries 98
Mean 3041
Std Dev 0

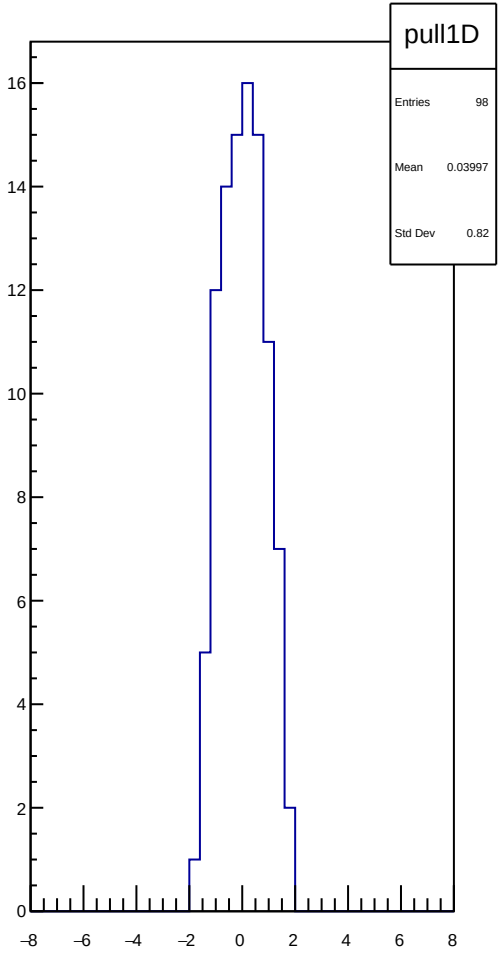

pull1D
Entries 98
Mean 0.001641
Std Dev 0.9149

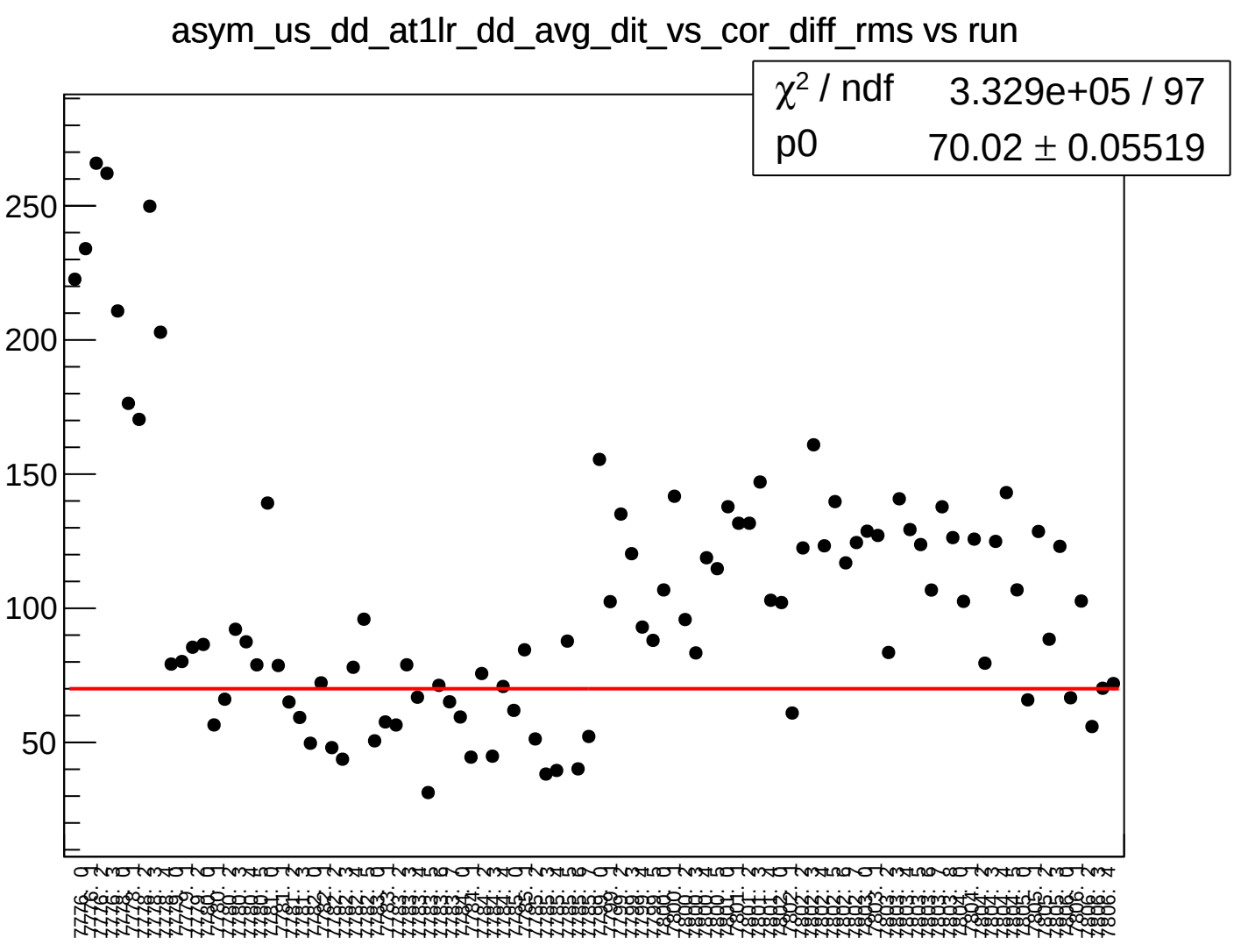

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 2172 / 97
p0 2553 ± 1.833
2900
2800
2700
2600
2500
2400

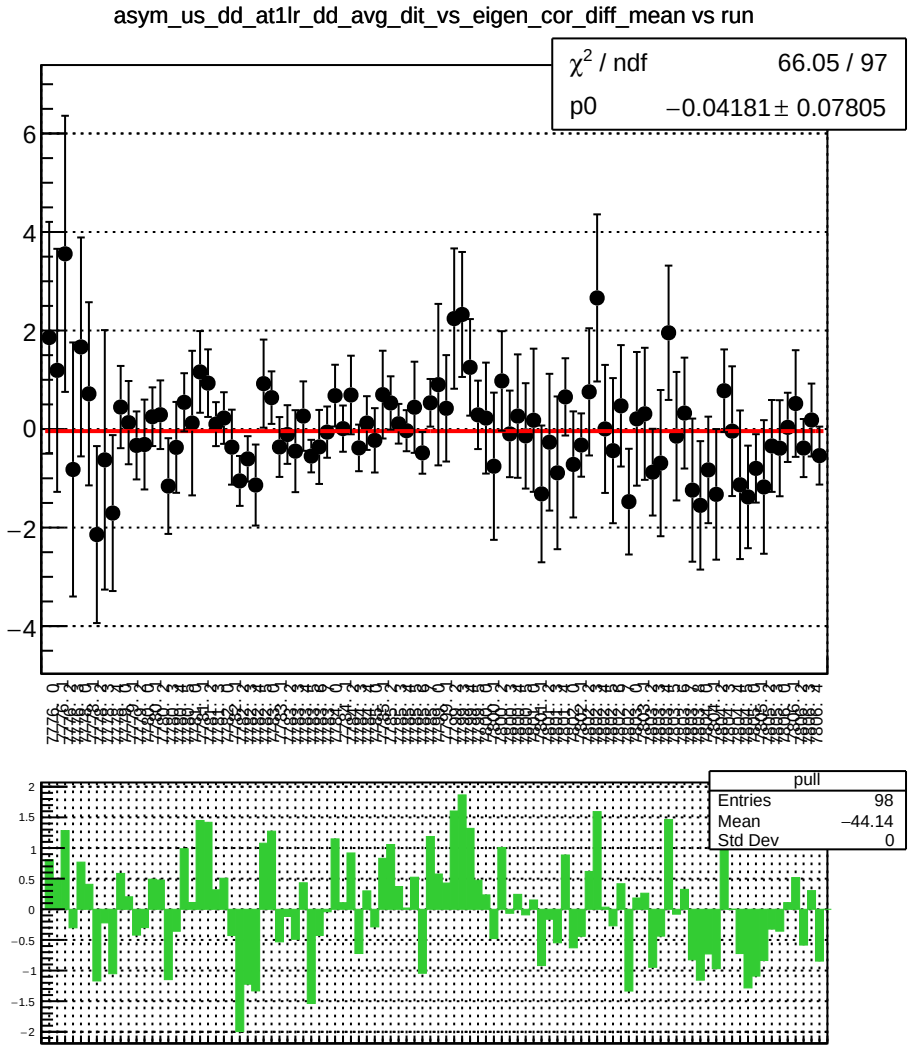

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.52 / 97
p0 −1.134e−15 ± 2.297e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 98
Mean 82.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.06071
Std Dev 0.9211
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

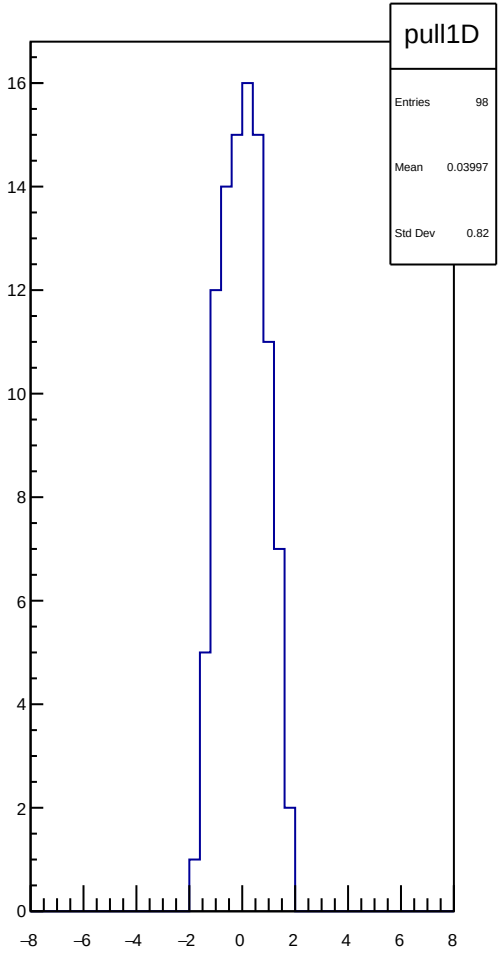

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.037e+06 / 97
p0 1.546e−10 ± 1.624e−13
1
0.8
0.6
0.4
0.2
0

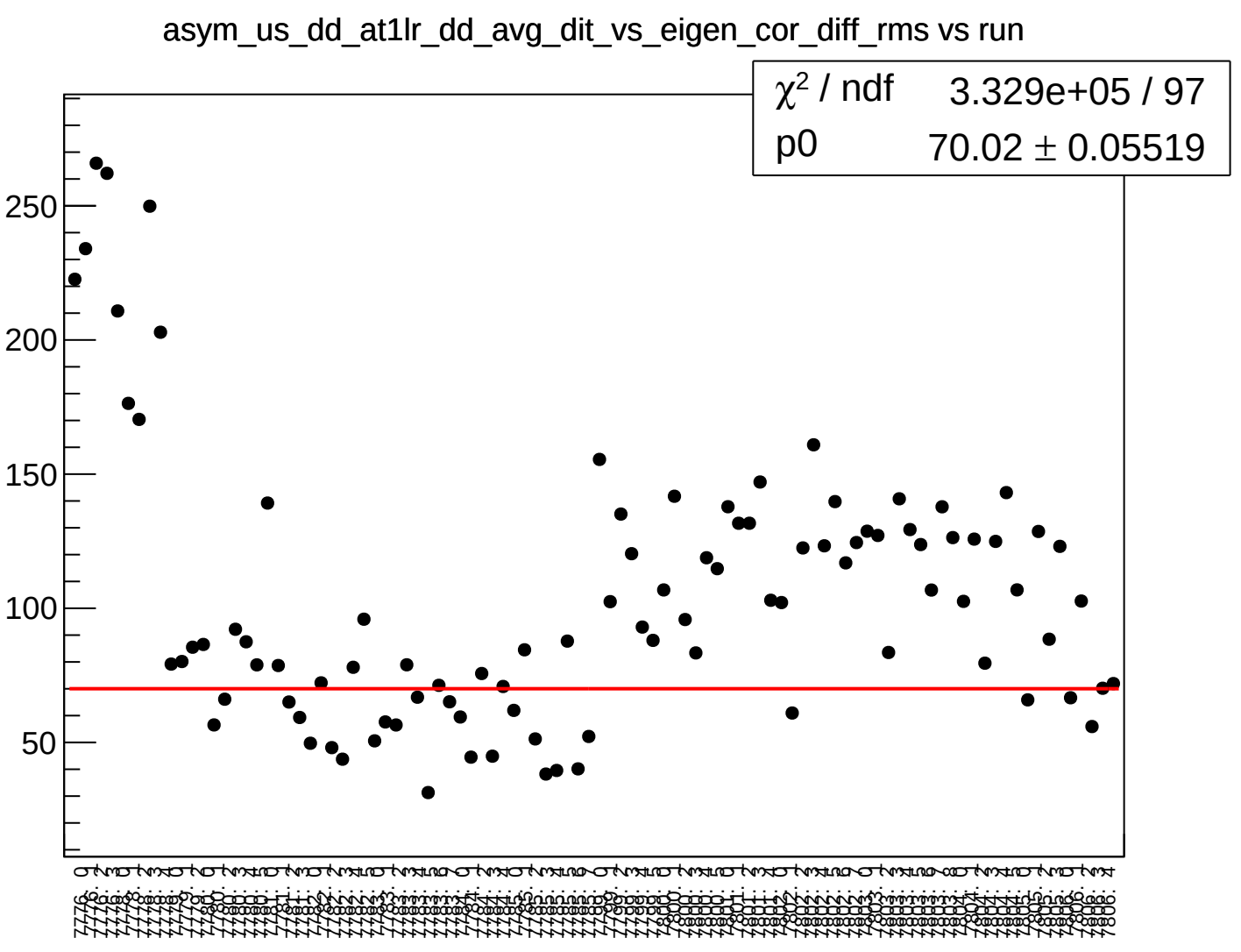

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.05 / 97
p0 −0.04181 ± 0.07805
pull
Entries 98
Mean −44.14
Std Dev 0

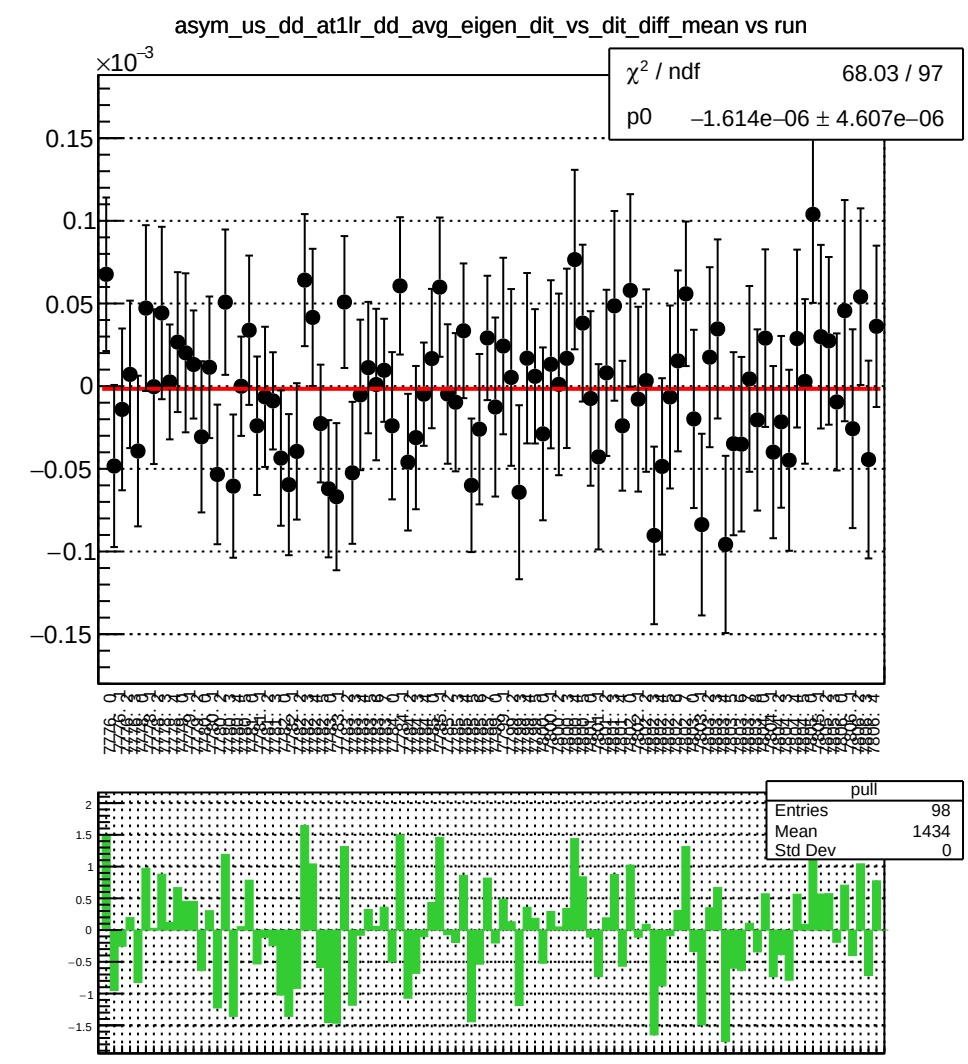

pull1D
Entries 98
Mean 0.03997
Std Dev 0.82

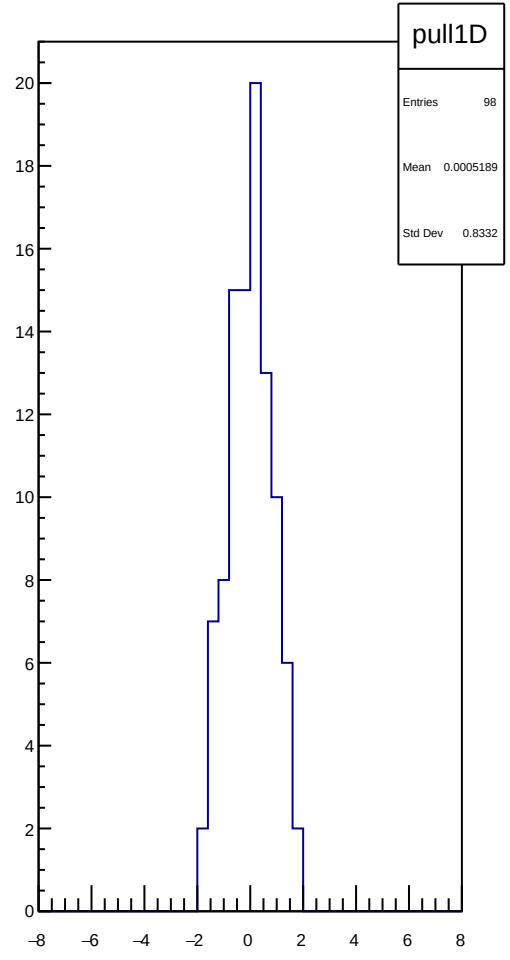

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.329e+05 / 97
p0 70.02 ± 0.05519
250
200
150
100
50

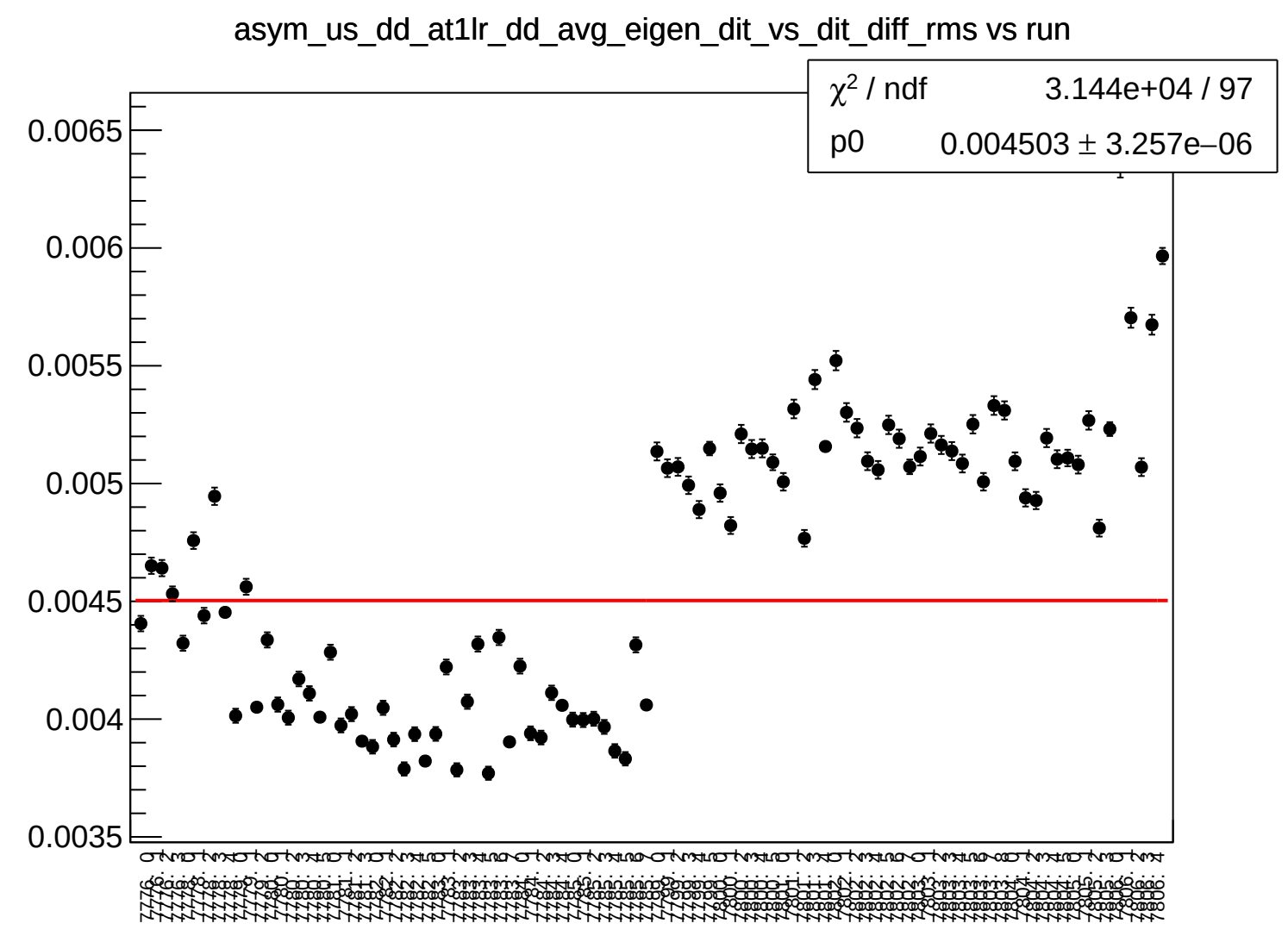

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.05 / 97
p0 −0.04181 ± 0.07805
pull
Entries 98
Mean −44.14
Std Dev 0


pull1D
Entries 98
Mean 0.03997
Std Dev 0.82

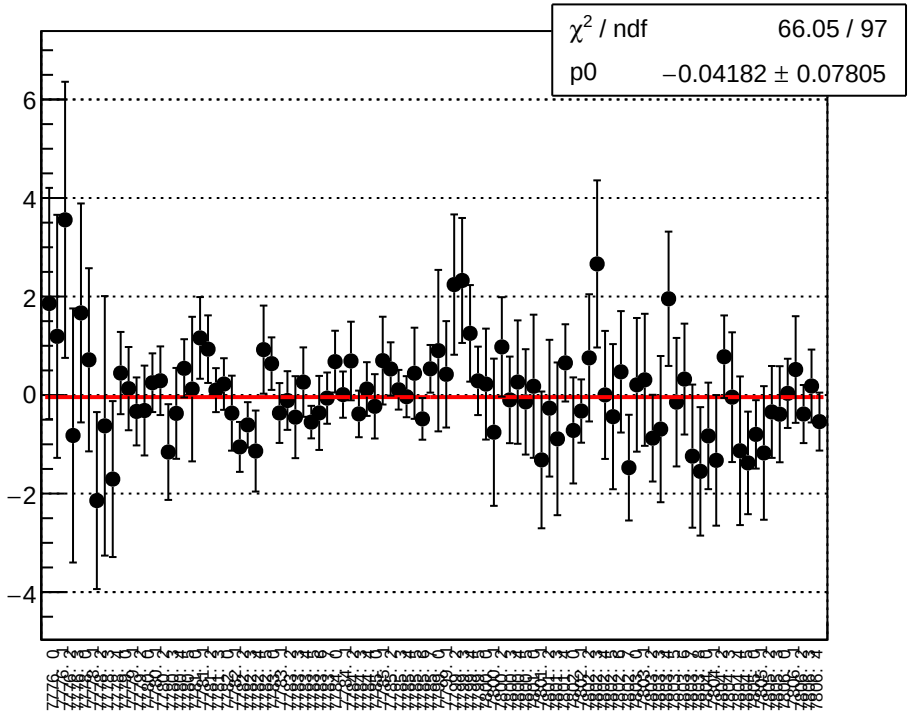

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.329e+05 / 97
p0 70.02 ± 0.05519
250
200
150
100
50

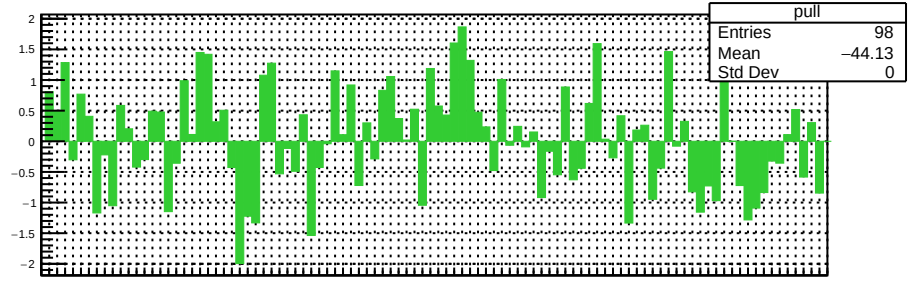

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.03 / 97
p0 −1.614e−06 ± 4.607e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 98
Mean 1434
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

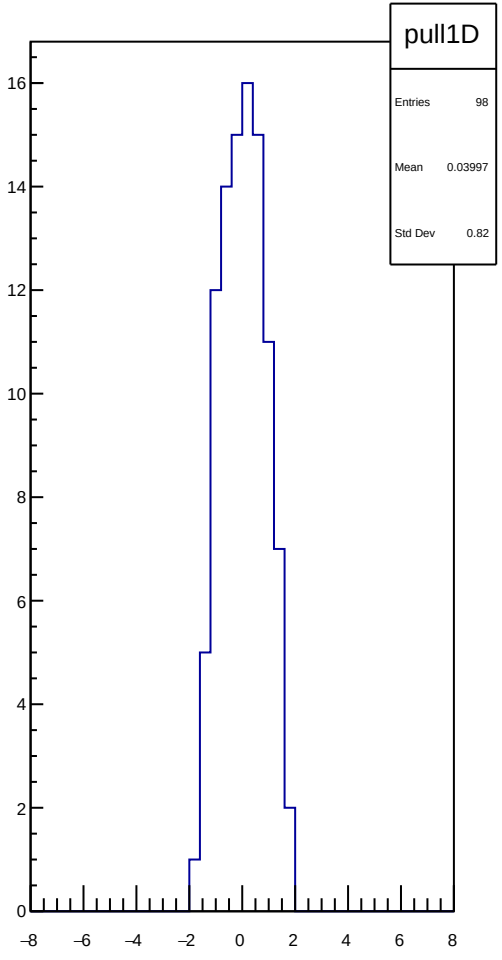

pull1D
Entries 98
Mean 0.0005189
Std Dev 0.8332
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

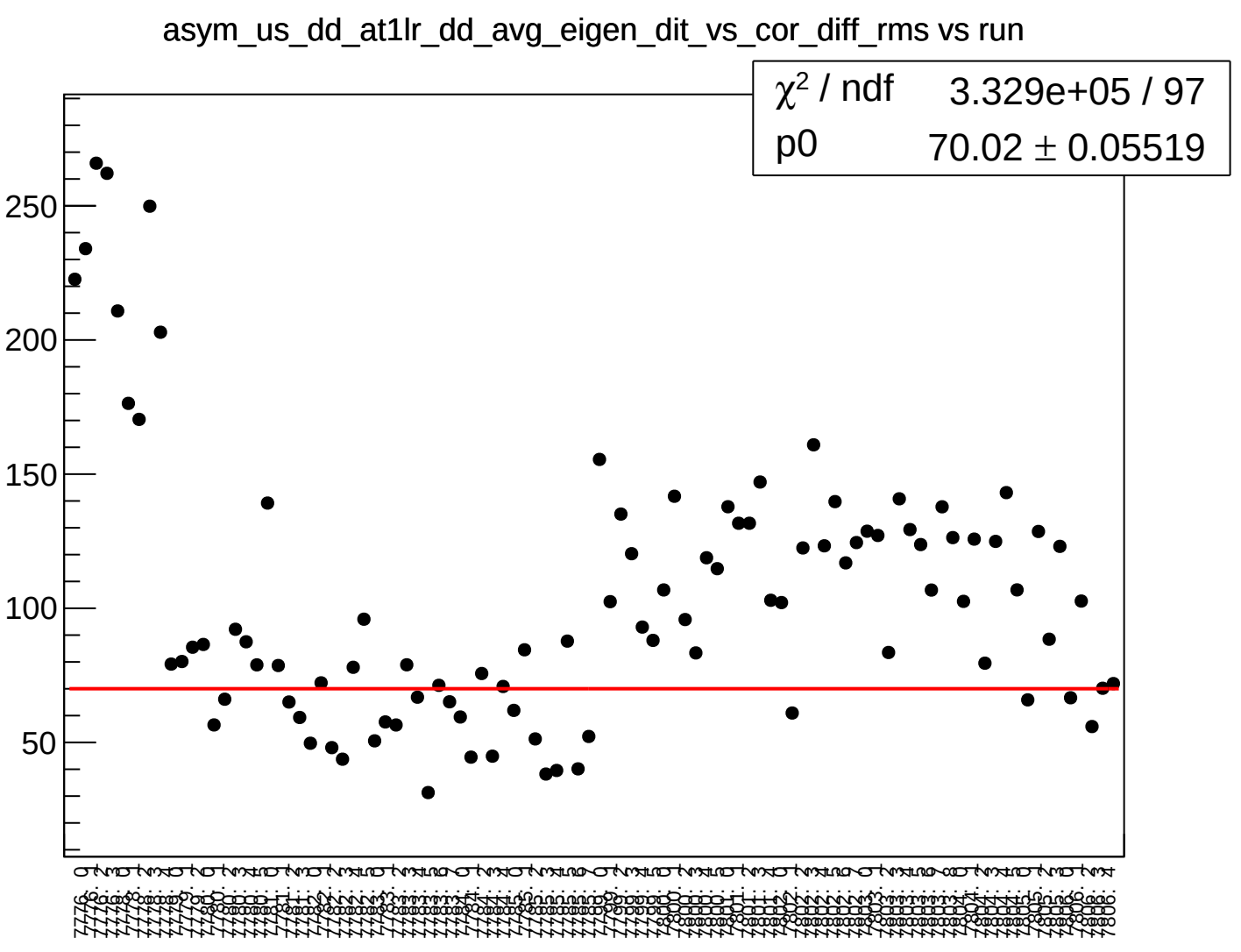

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.144e+04 / 97
p0 0.004503 ± 3.257e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

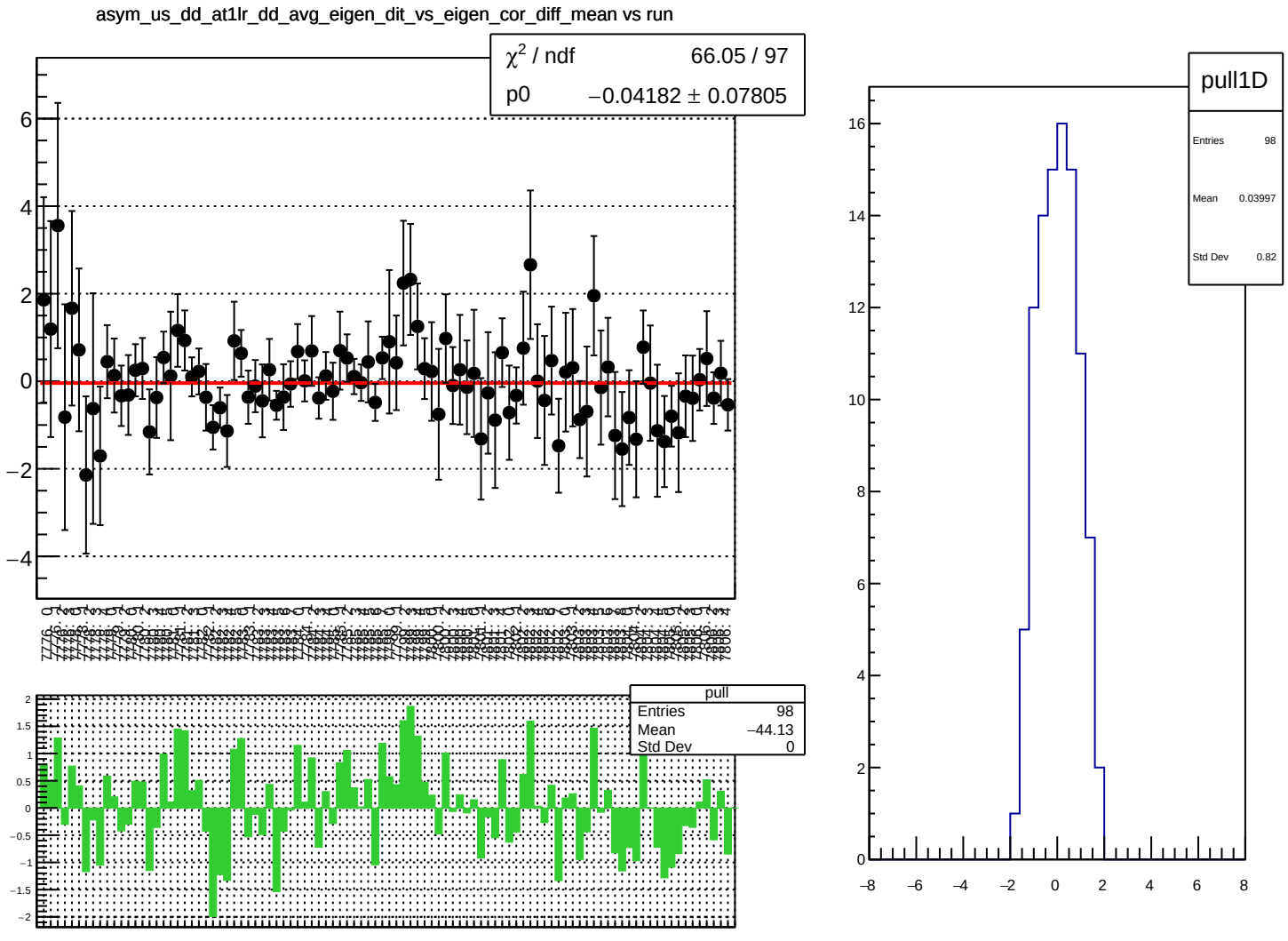
asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

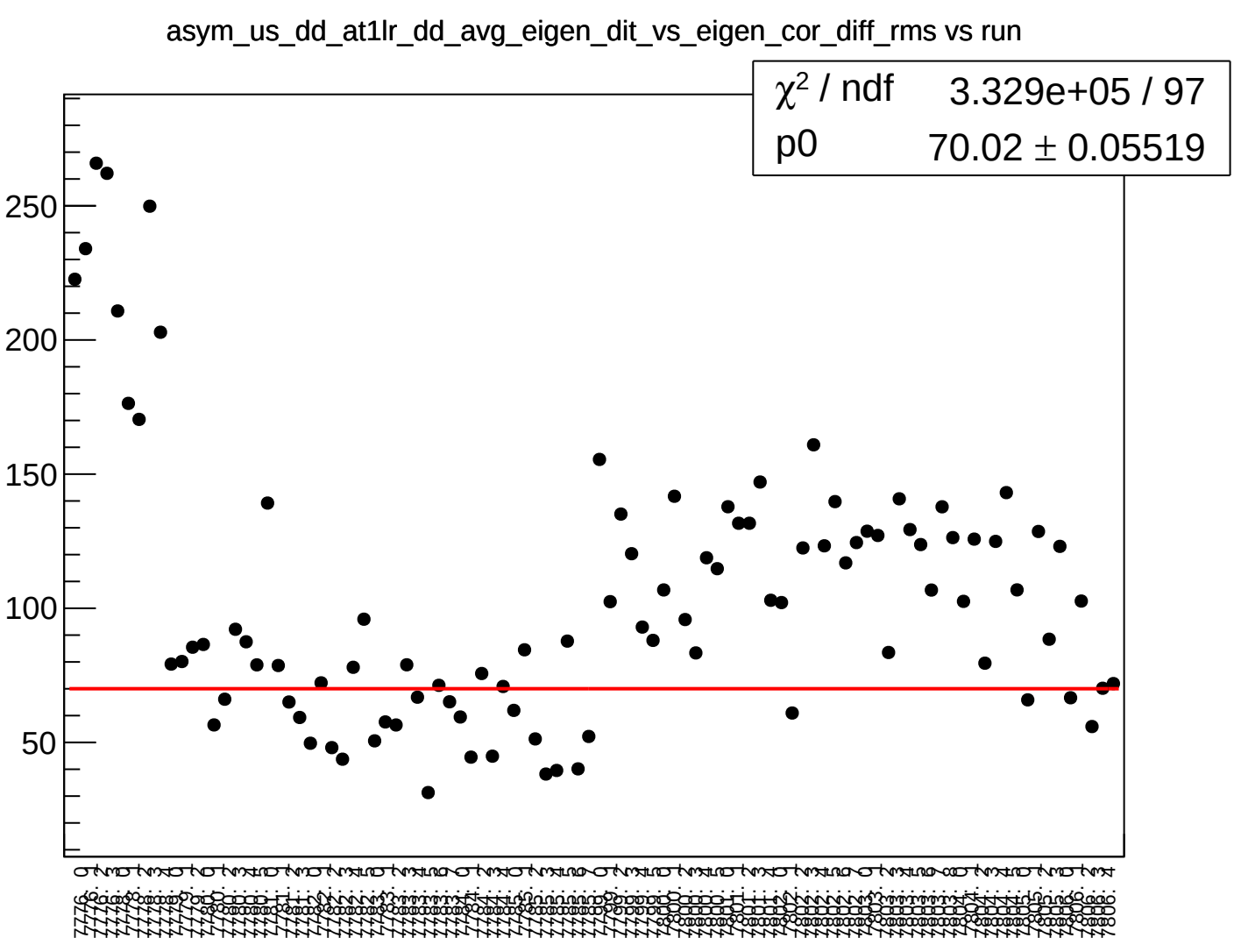


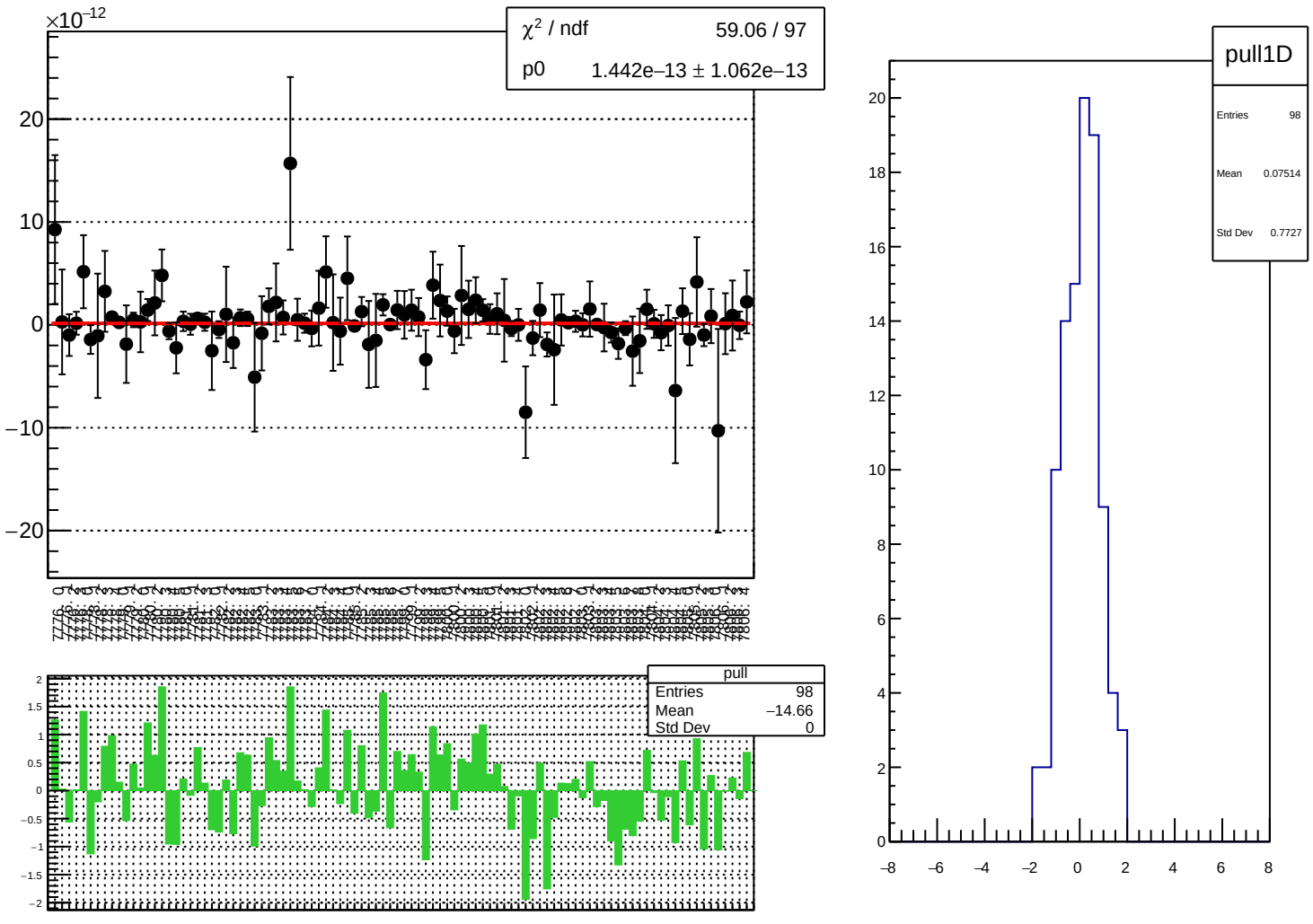


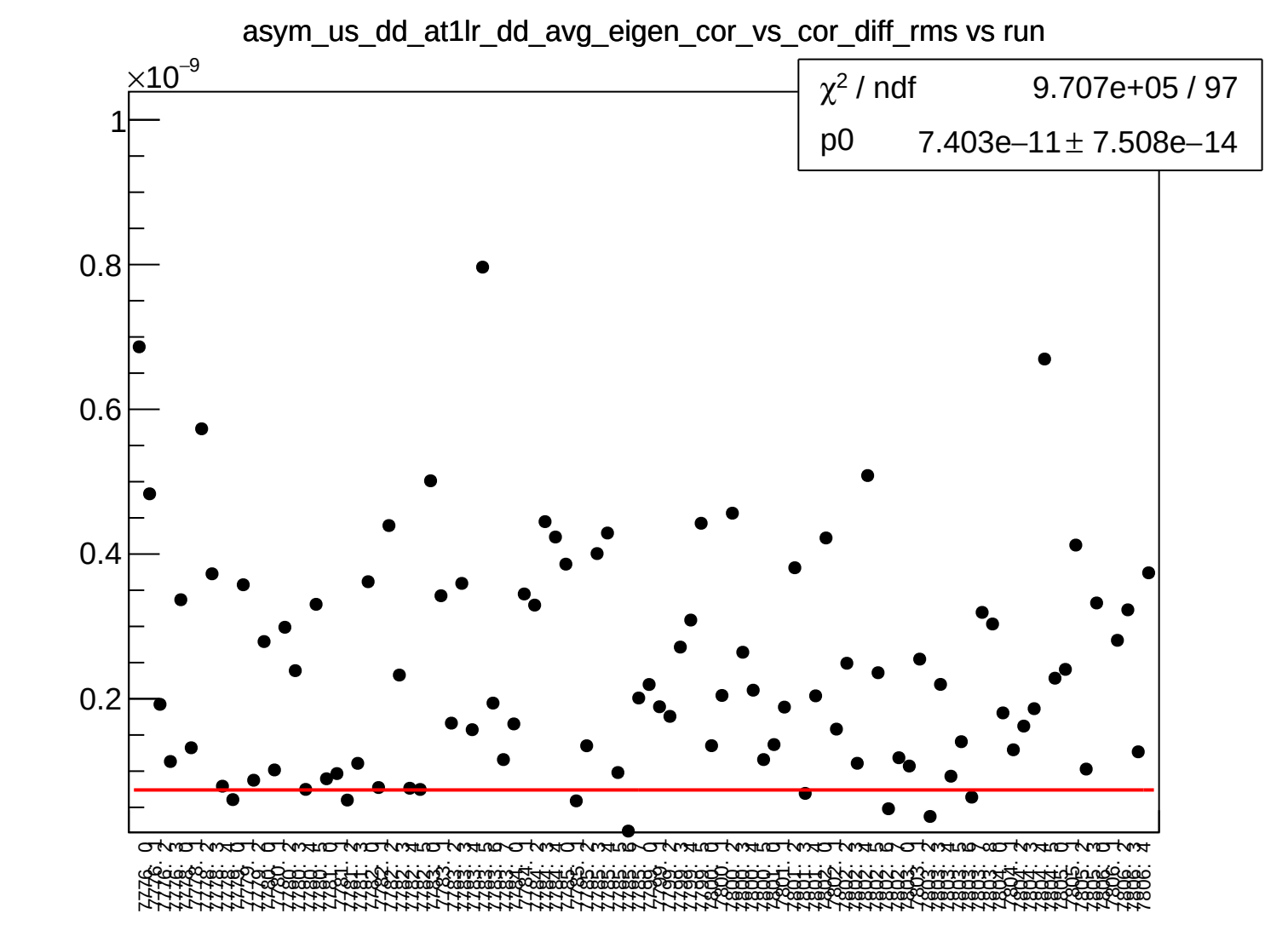


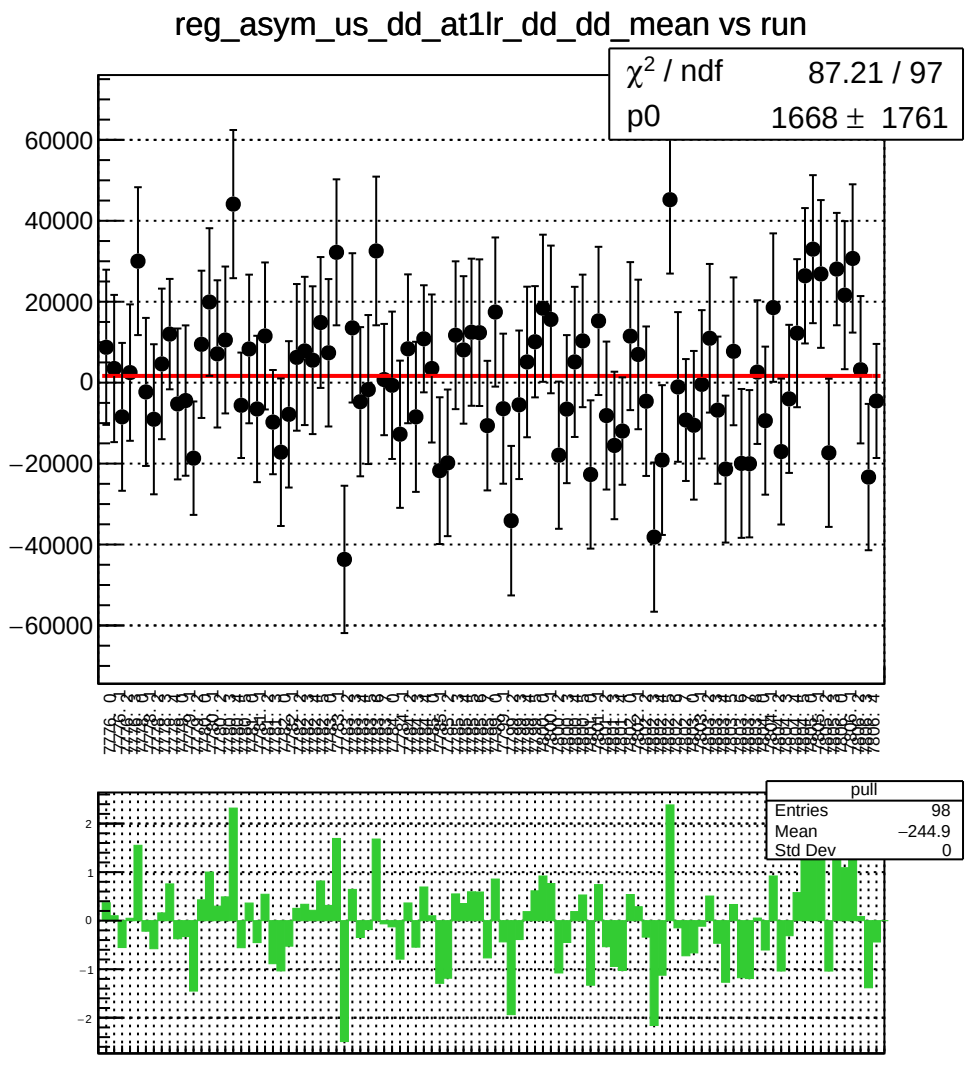

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.329e+05 / 97
p0 70.02 ± 0.05519
250
200
150
100
50

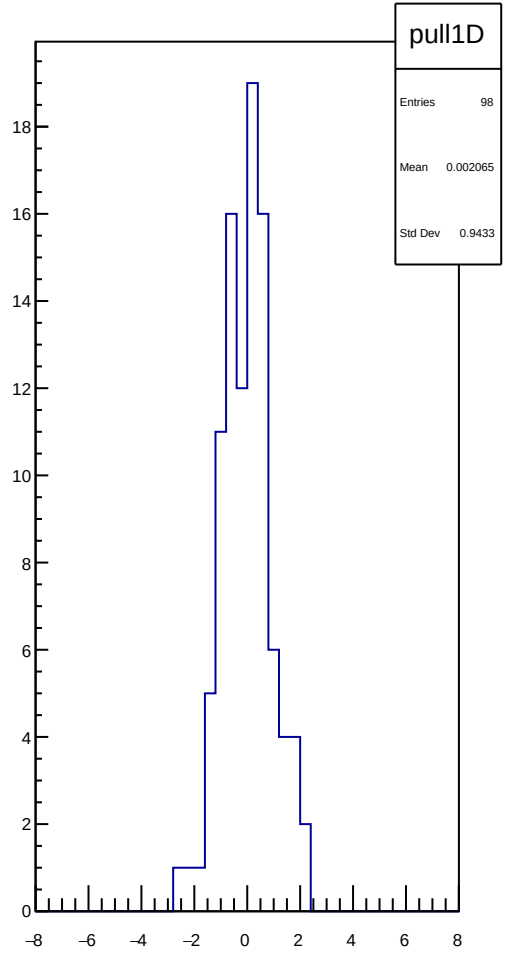

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.05 / 97
p0 −0.04182 ± 0.07805
pull
Entries 98
Mean −44.13
Std Dev 0
pull1D
Entries 98
Mean 0.03997
Std Dev 0.82

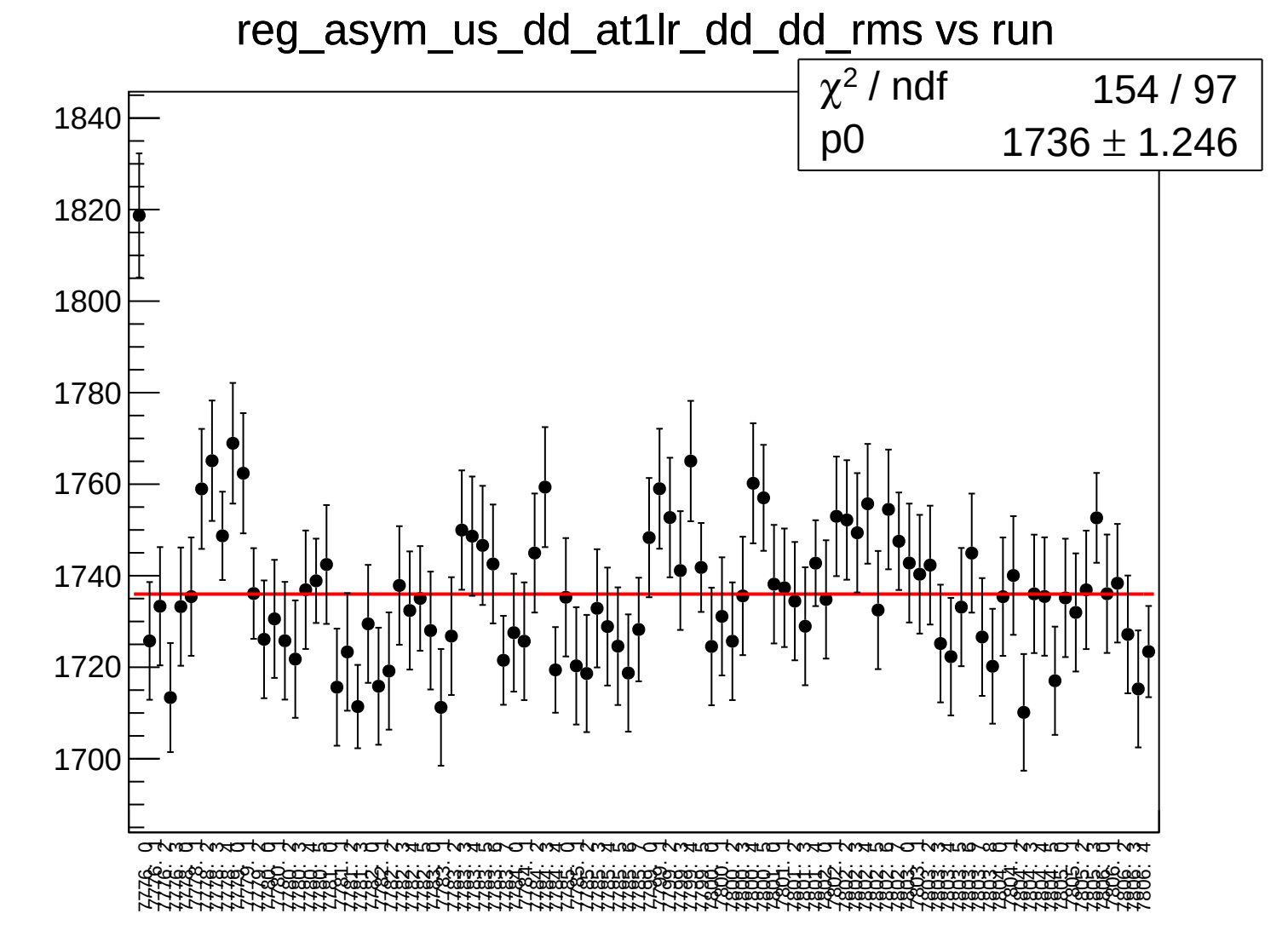

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.329e+05 / 97
p0 70.02 ± 0.05519
250
200
150
100
50

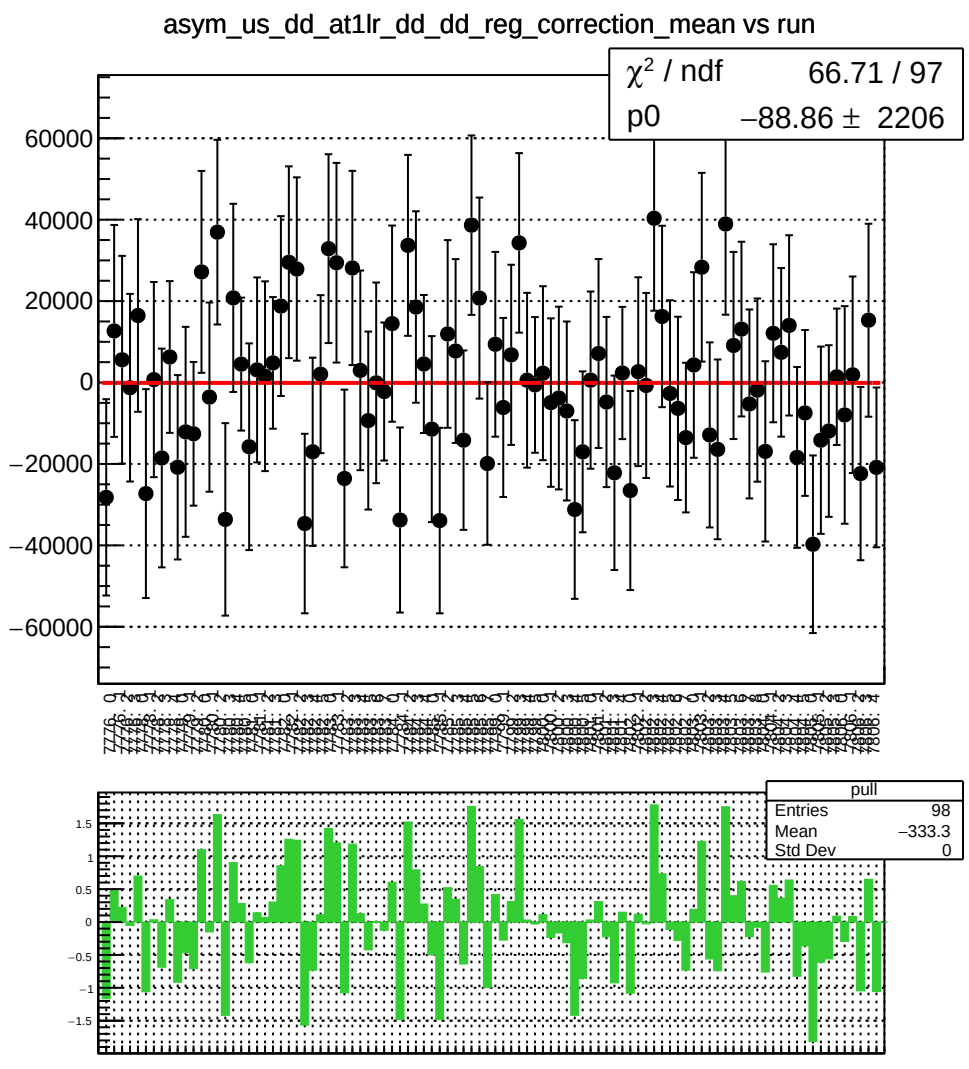

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.06 / 97
p0 1.442e−13 ± 1.062e−13
20
10
0
−10
−20
pull
Entries 98
Mean −14.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.07514
Std Dev 0.7727
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

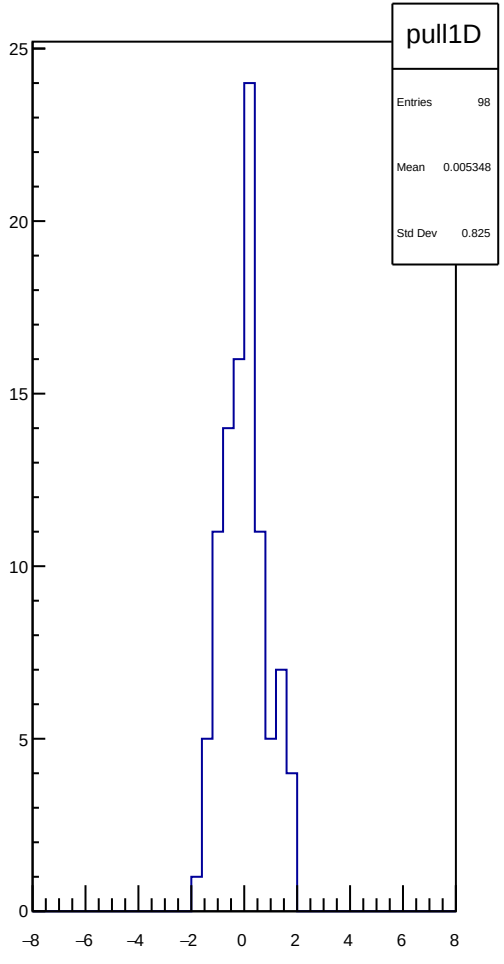

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.707e+05 / 97
p0 7.403e−11 ± 7.508e−14
1
0.8
0.6
0.4
0.2

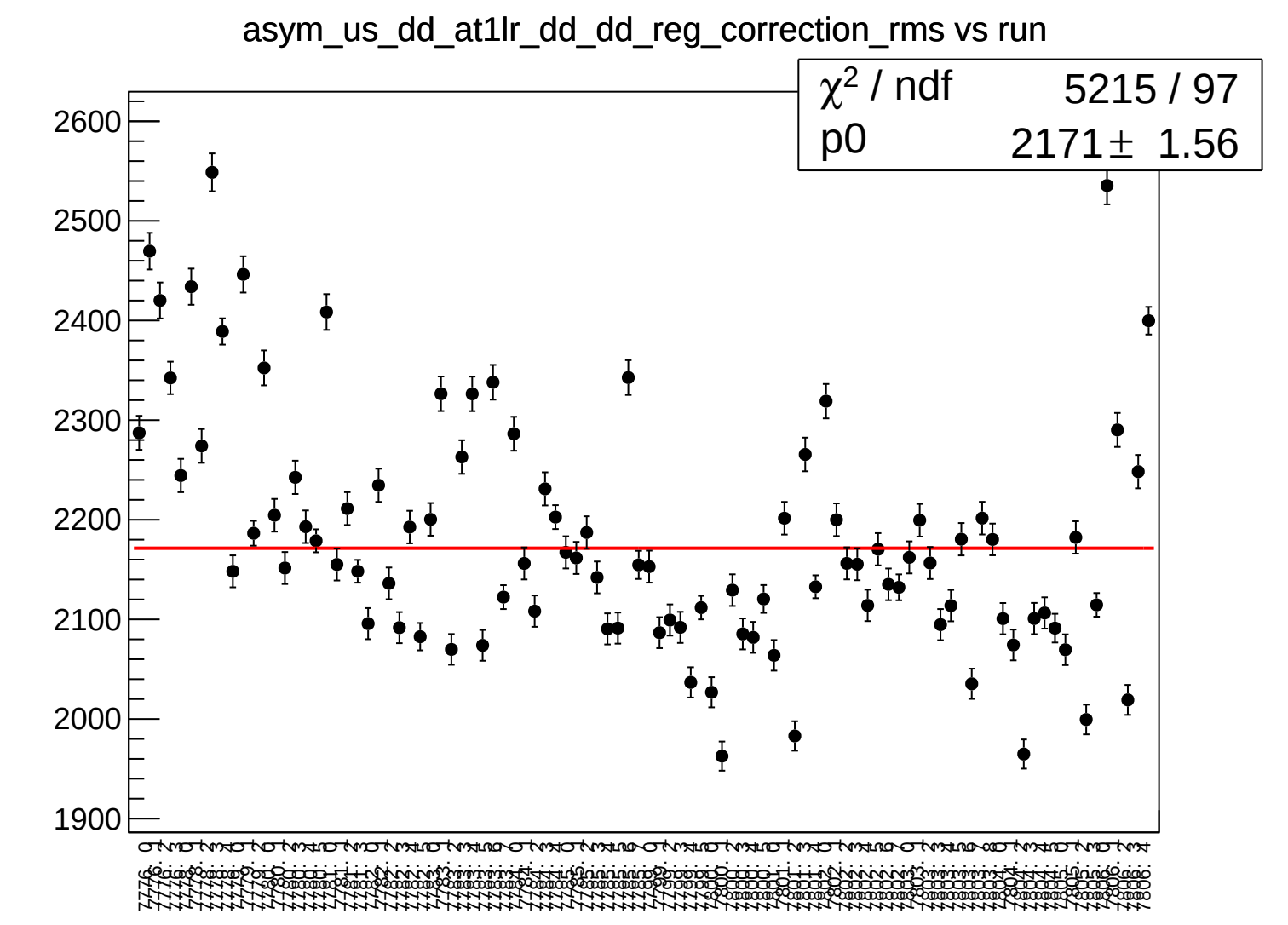

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 87.21 / 97
p0 1668 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −244.9
Std Dev 0
2
1
0
−1
−2

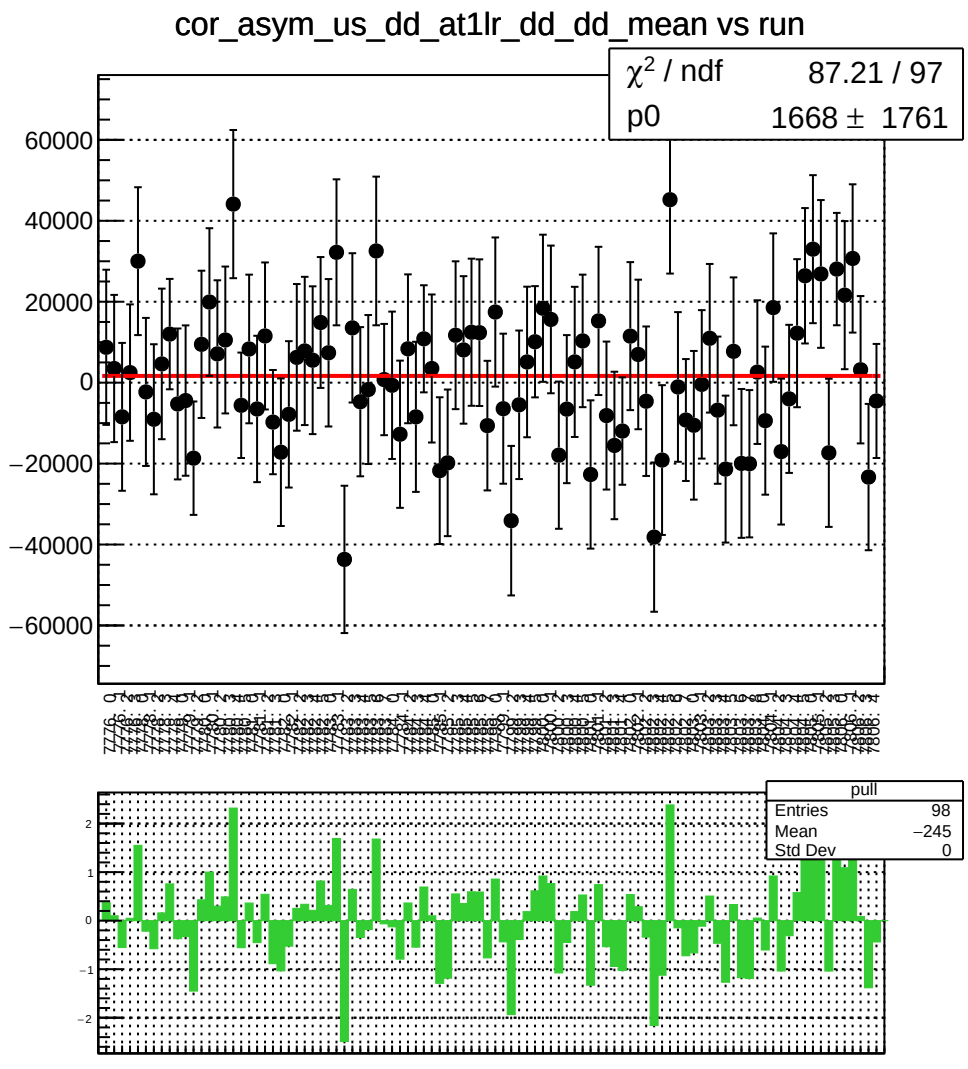

pull1D
Entries 98
Mean 0.002065
Std Dev 0.9433
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

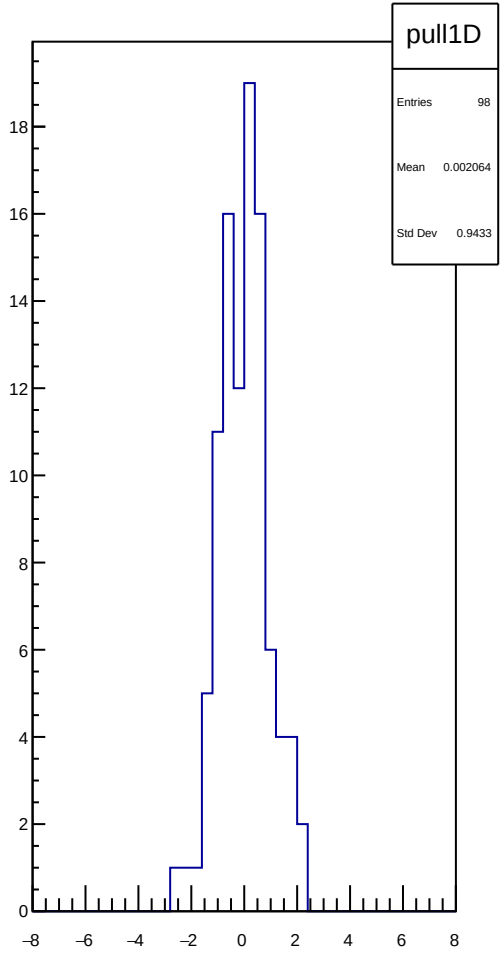

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 154 / 97
p0 1736 ± 1.246
1840
1820
1800
1780
1760
1740
1720
1700

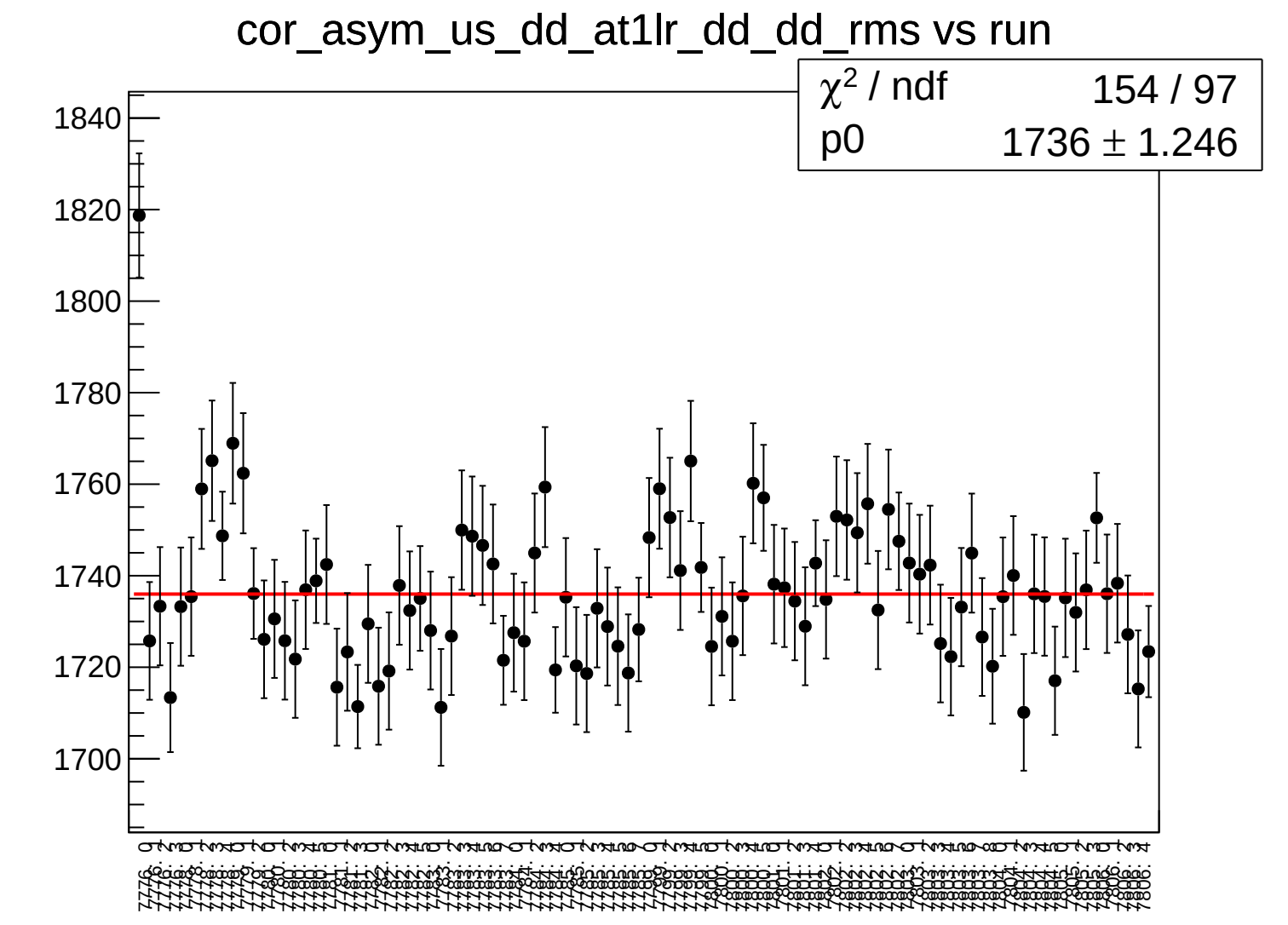

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 66.71 / 97
p0 −88.86 ± 2206
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −333.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

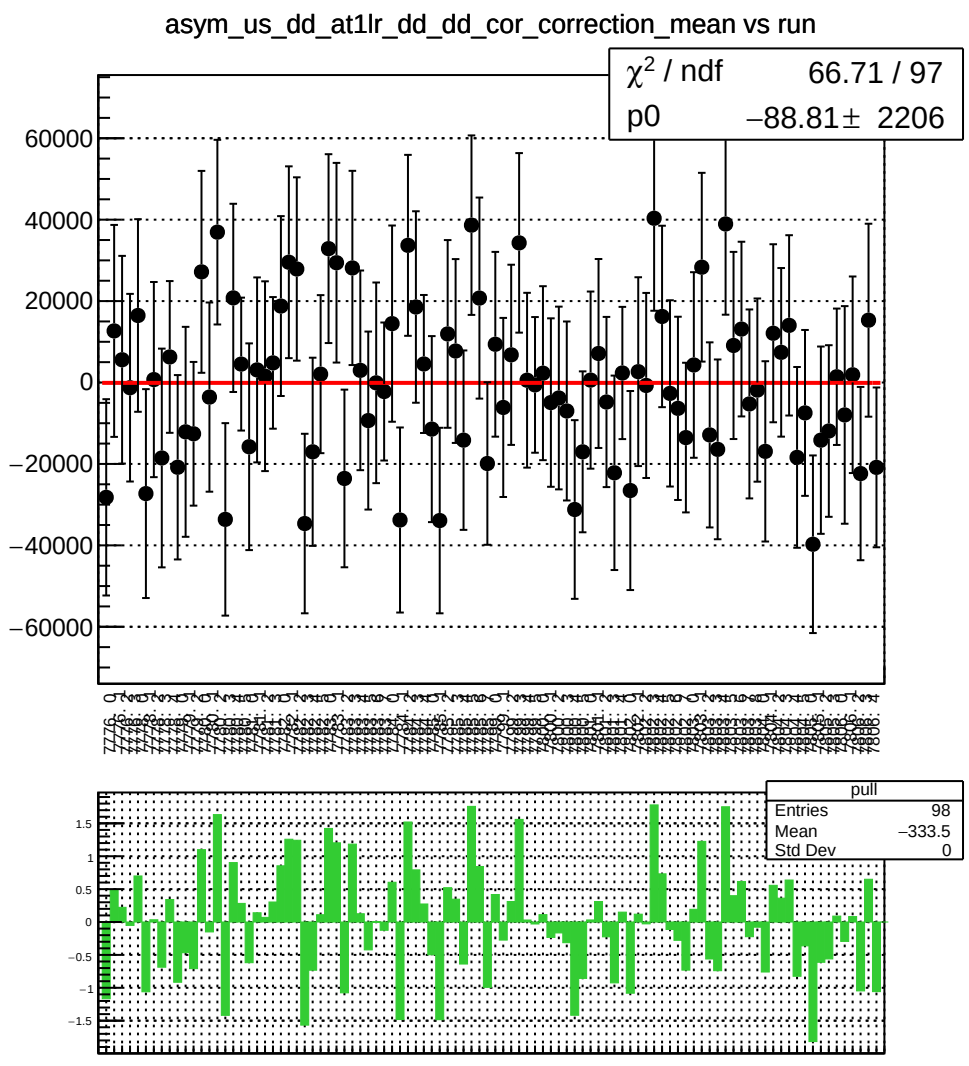

pull1D
Entries 98
Mean 0.005348
Std Dev 0.825
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

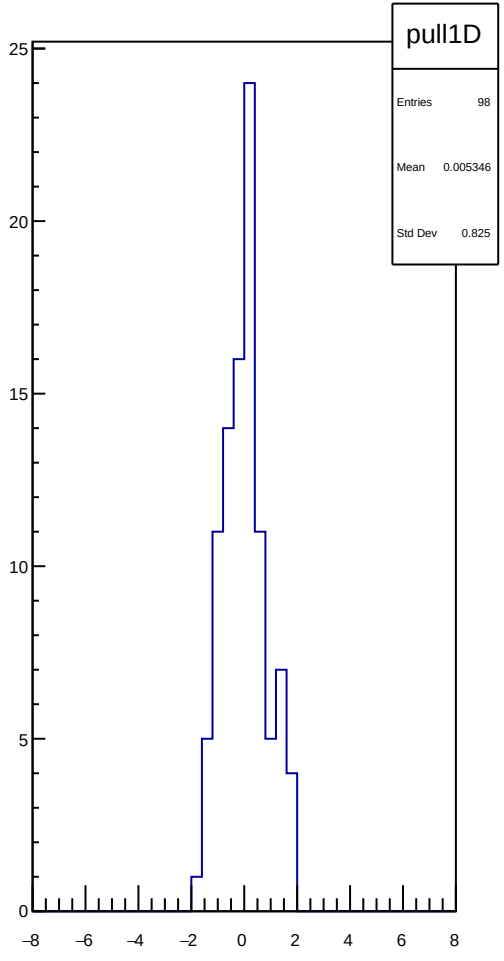

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5215 / 97
p0 2171 ± 1.56
2600
2500
2400
2300
2200
2100
2000
1900

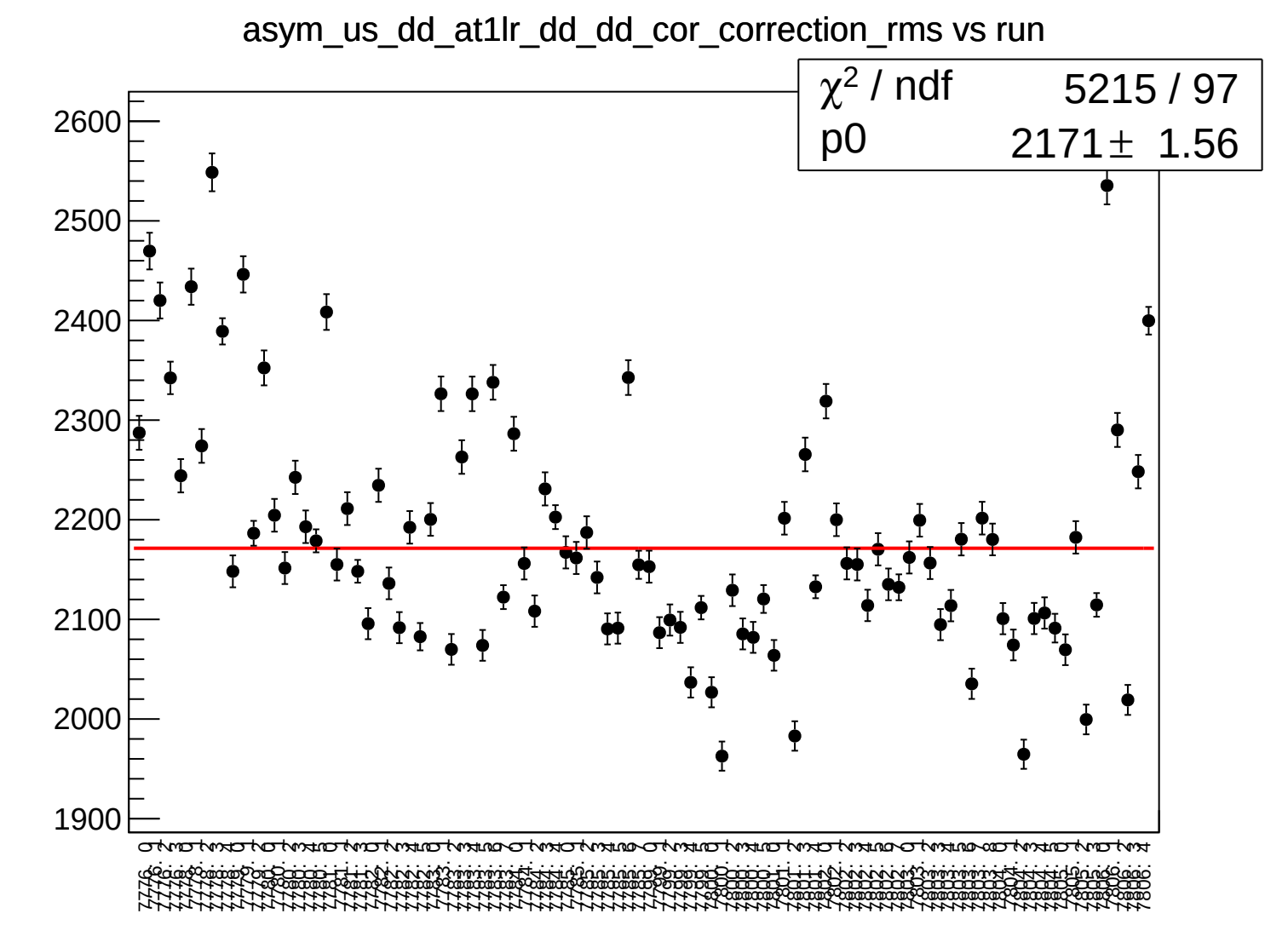

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 87.21 / 97
p0 1668 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −245
Std Dev 0
2
1
0
−1
−2

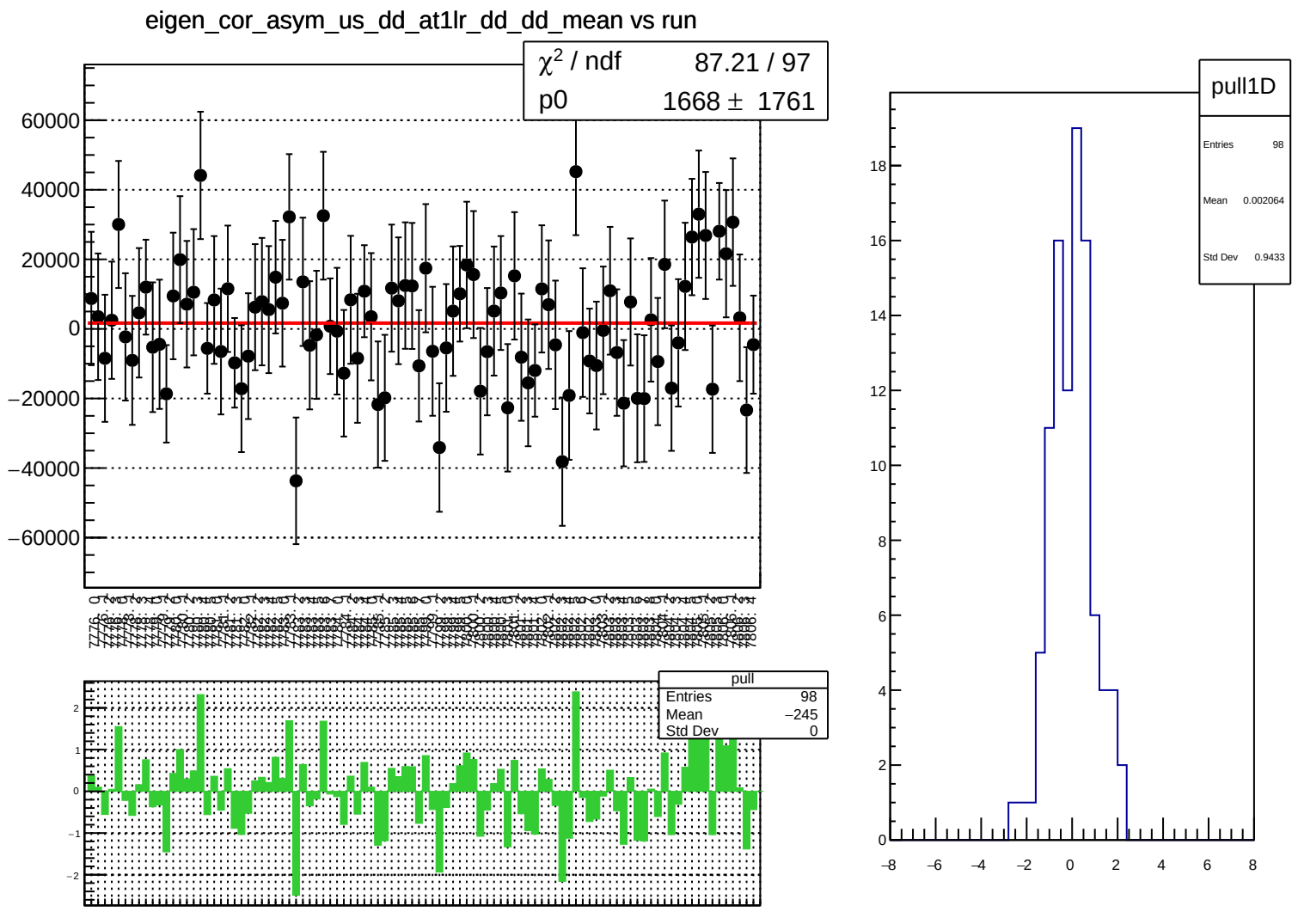

pull1D
Entries 98
Mean 0.002064
Std Dev 0.9433
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

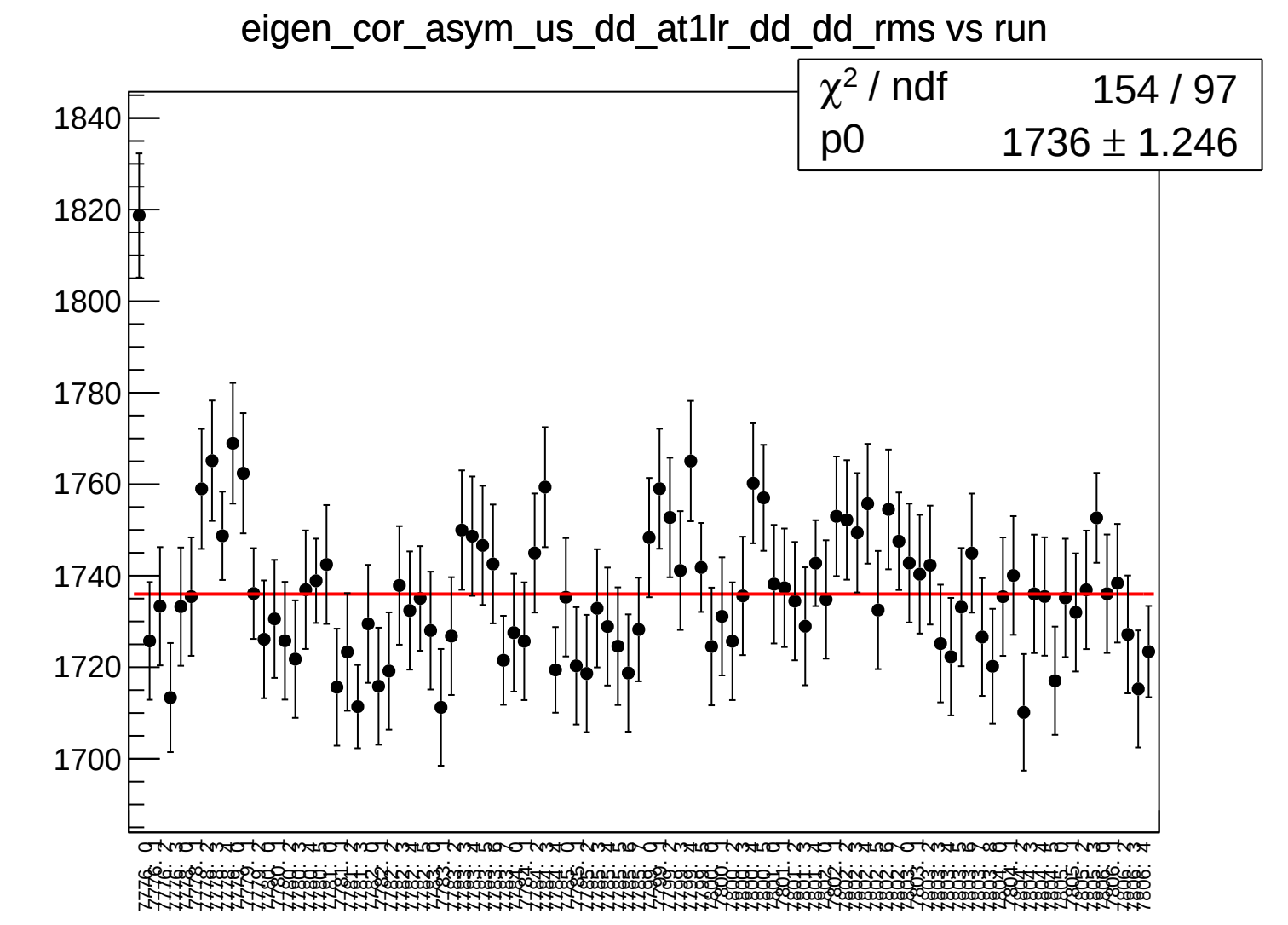

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 154 / 97
p0 1736 ± 1.246
1840
1820
1800
1780
1760
1740
1720
1700

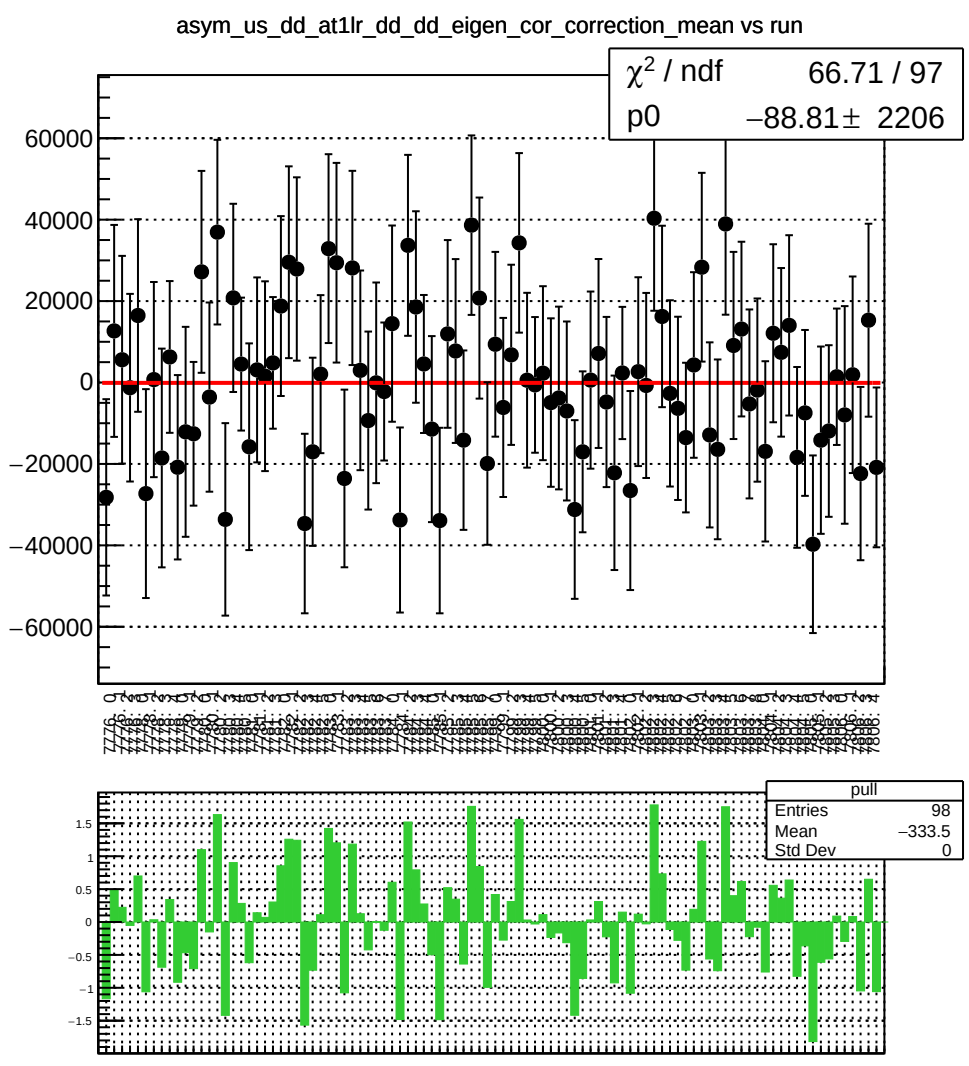

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 66.71 / 97
p0 −88.81± 2206
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −333.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

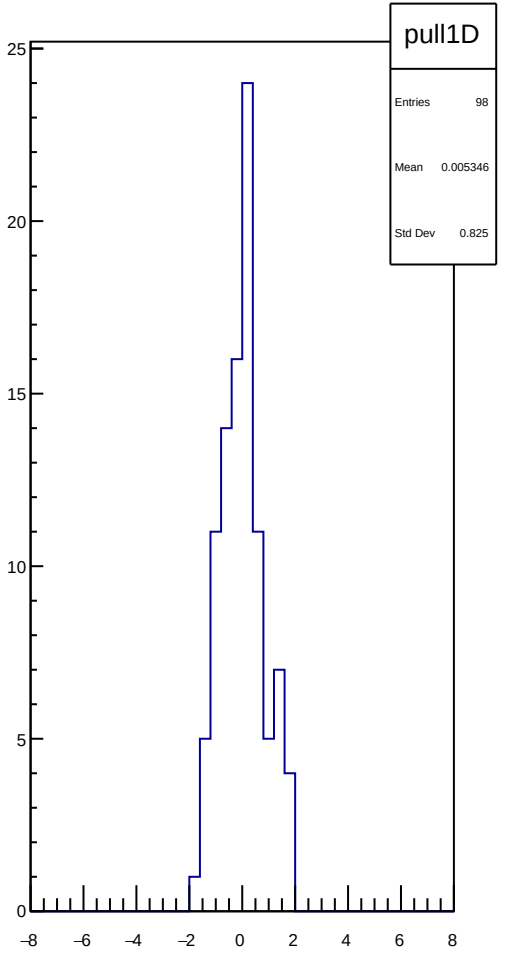

pull1D
Entries 98
Mean 0.005346
Std Dev 0.825
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

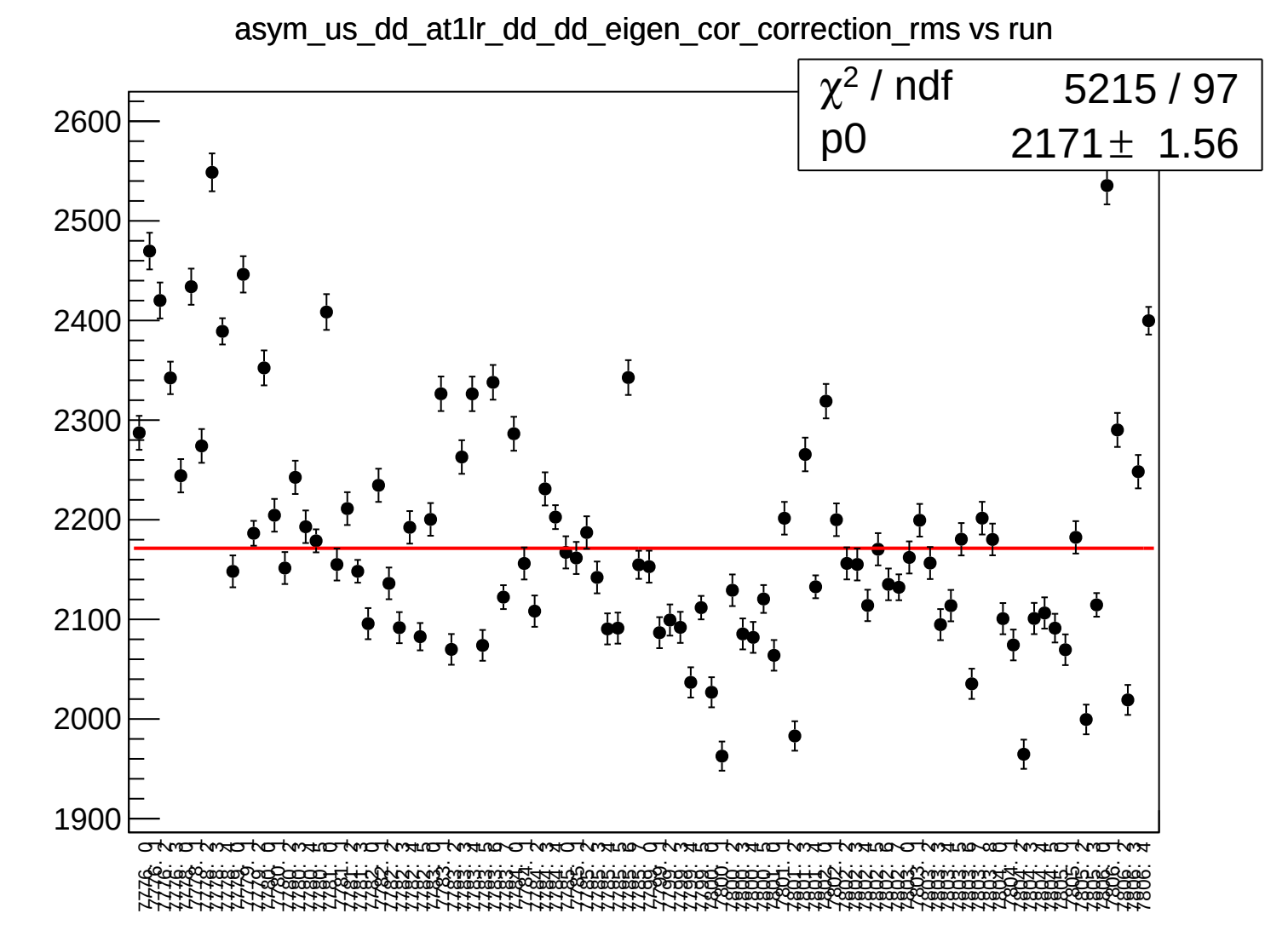

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5215 / 97
p0 2171 ± 1.56
2600
2500
2400
2300
2200
2100
2000
1900

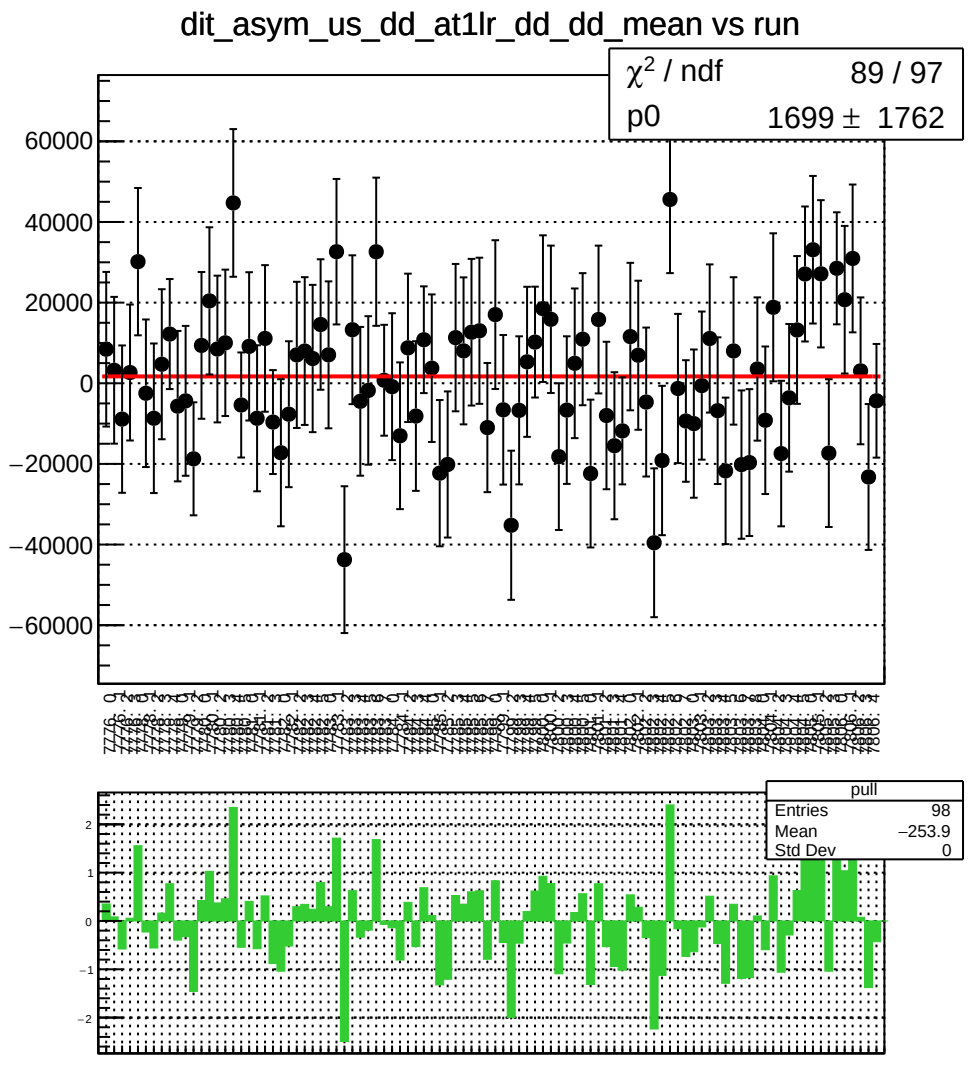

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 87.21 / 97
p0 1668 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −245
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.002064
Std Dev 0.9433
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

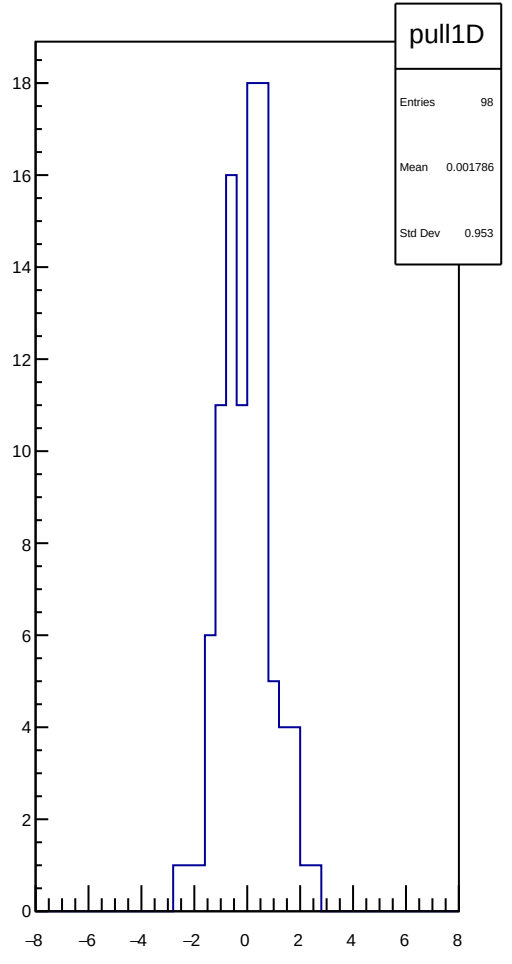

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 154 / 97
p0 1736 ± 1.246
1840
1820
1800
1780
1760
1740
1720
1700

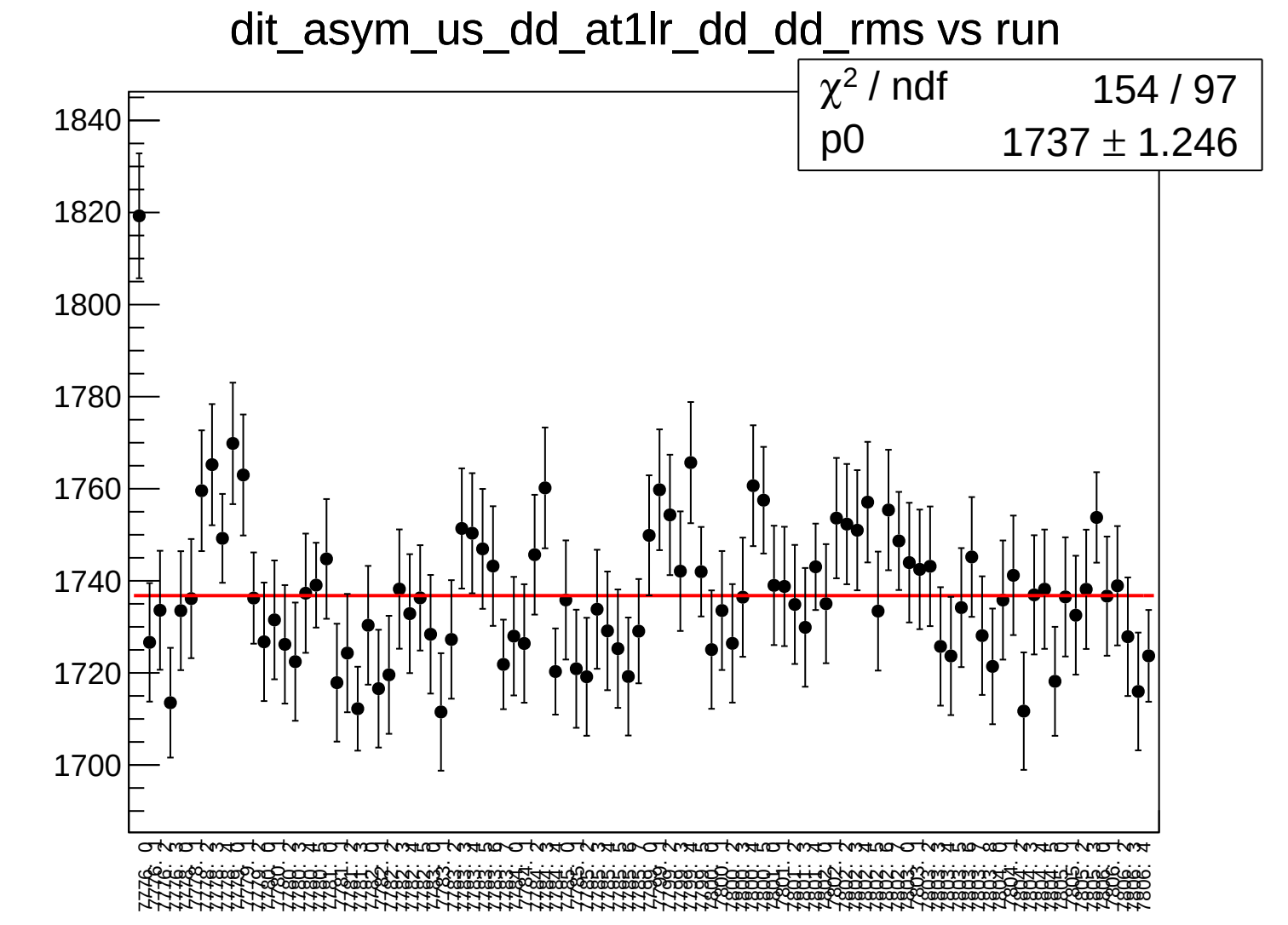

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.71 / 97
p0 −88.81± 2206
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −333.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

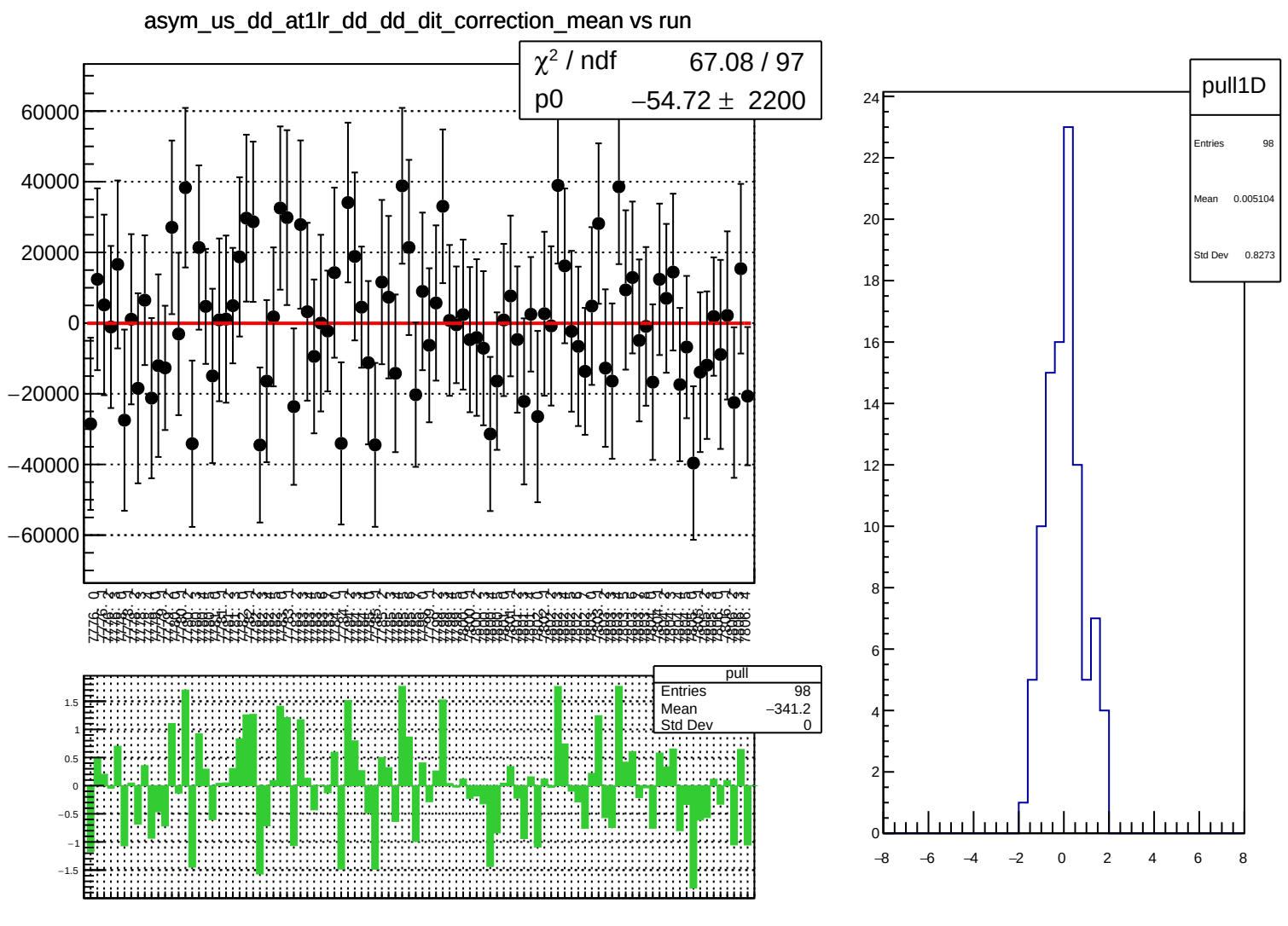

pull1D
Entries 98
Mean 0.005346
Std Dev 0.825
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

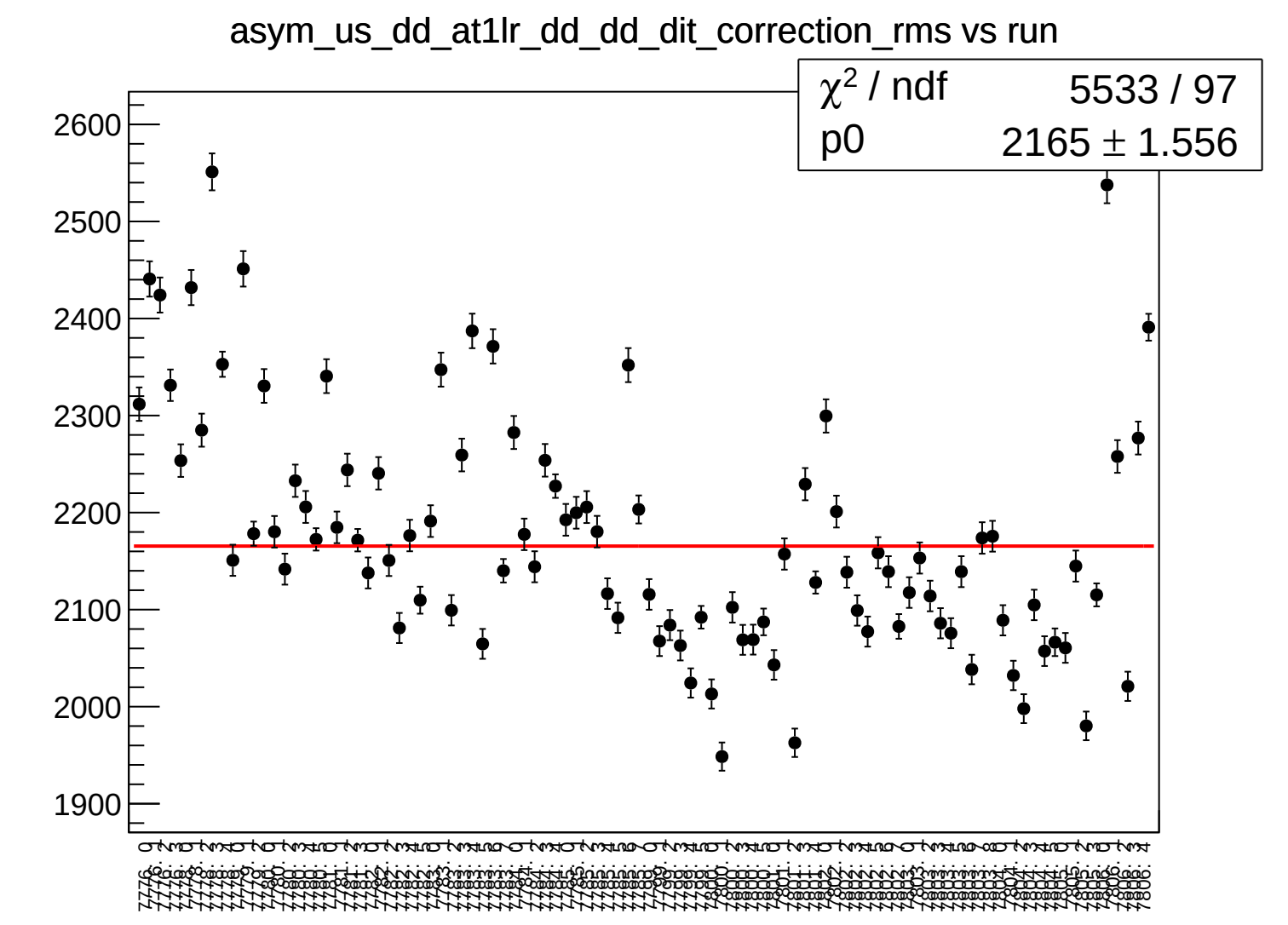

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5215 / 97
p0 2171 ± 1.56
2600
2500
2400
2300
2200
2100
2000
1900

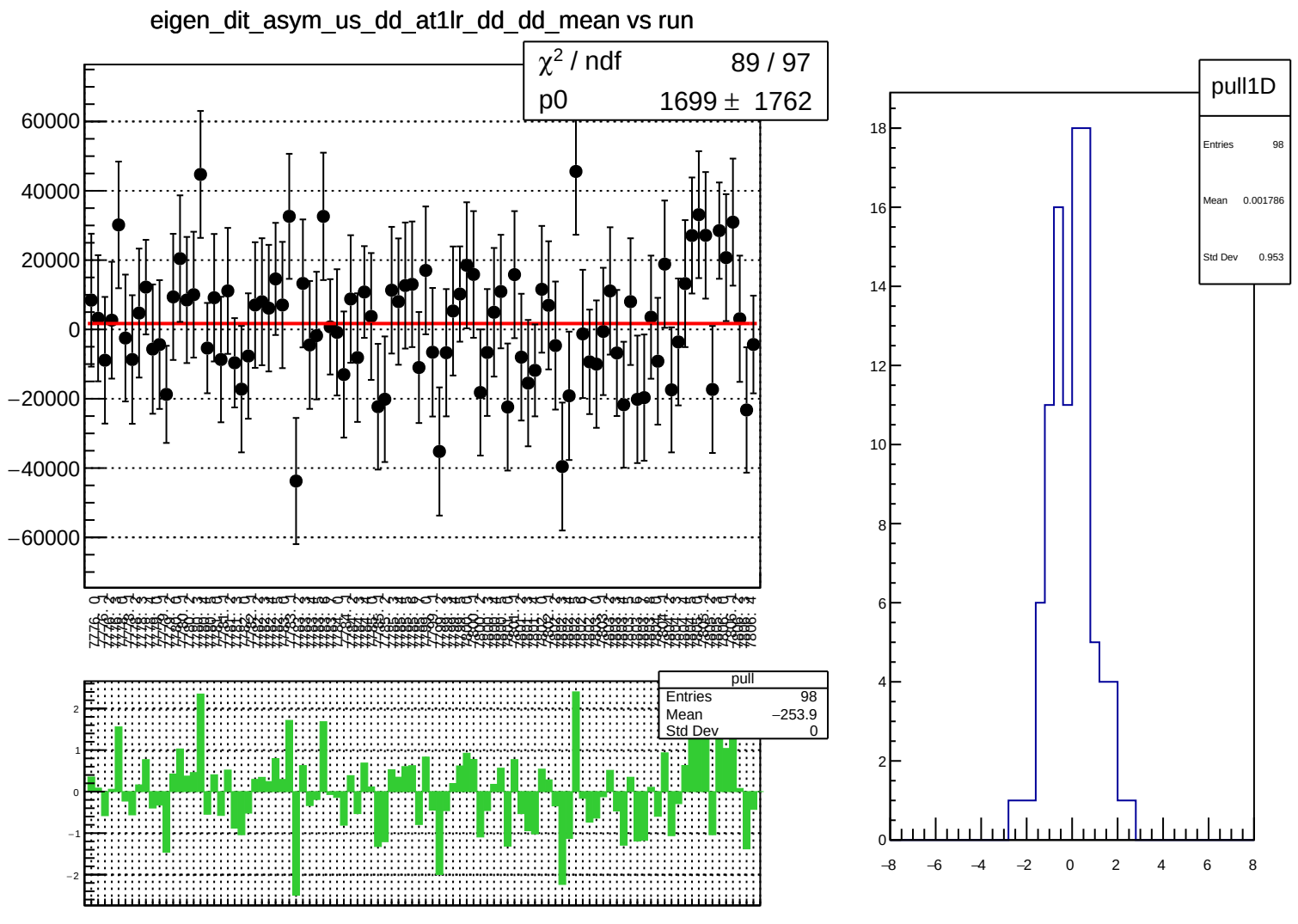

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 89 / 97
p0 1699 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −253.9
Std Dev 0
2
1
0
−1
−2

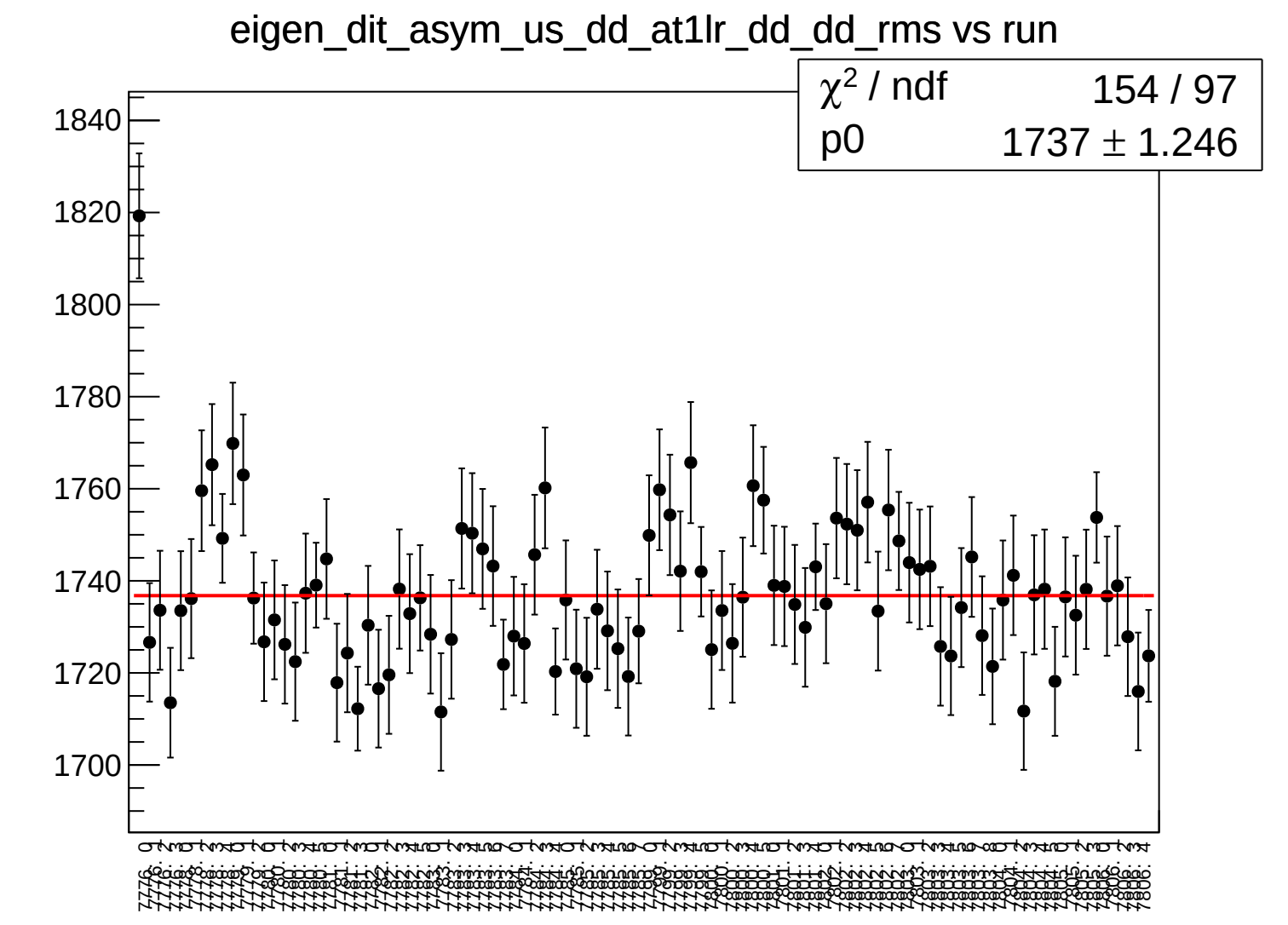

pull1D
Entries 98
Mean 0.001786
Std Dev 0.953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

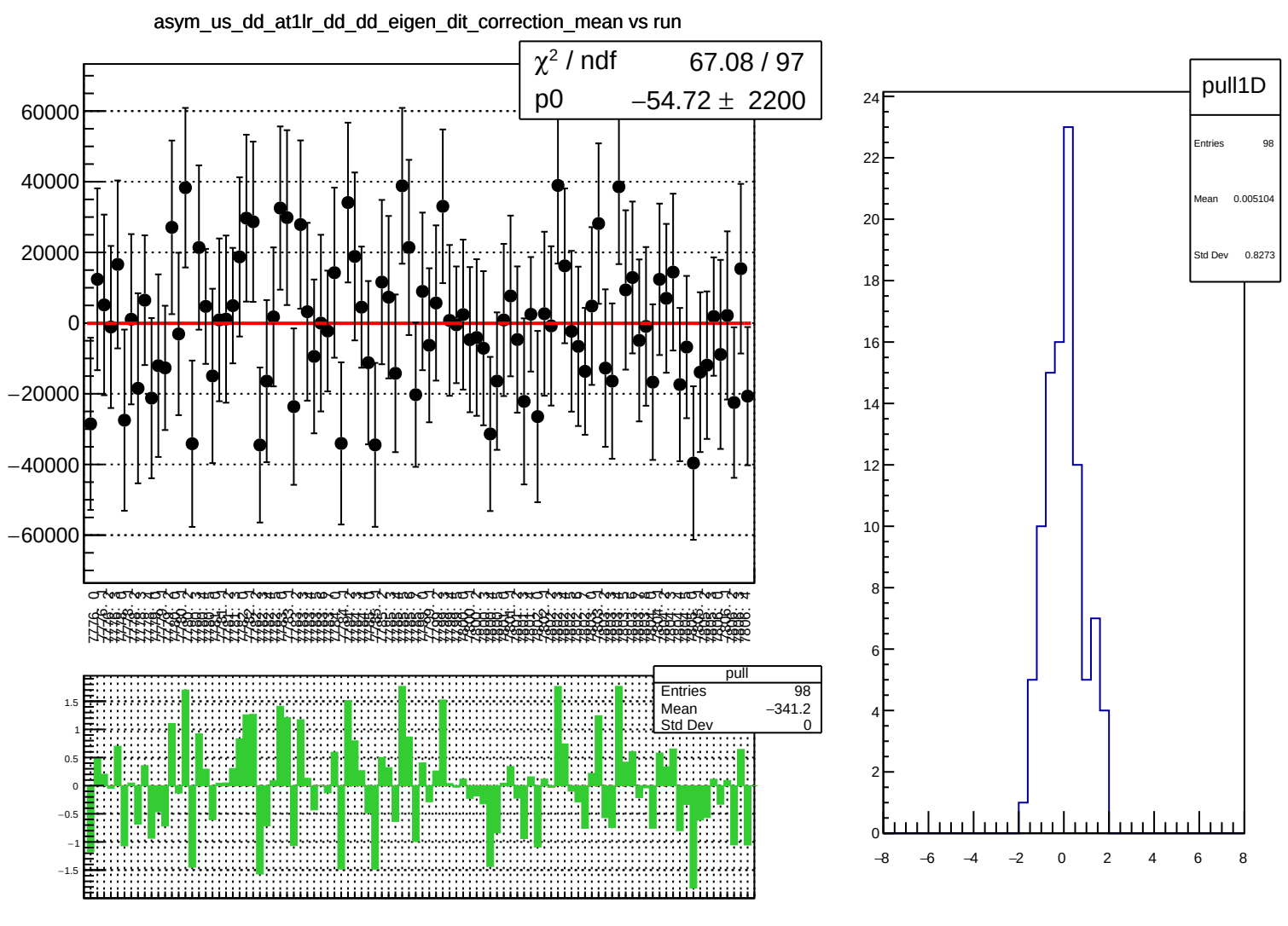

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 154 / 97
p0 1737 ± 1.246
1840
1820
1800
1780
1760
1740
1720
1700

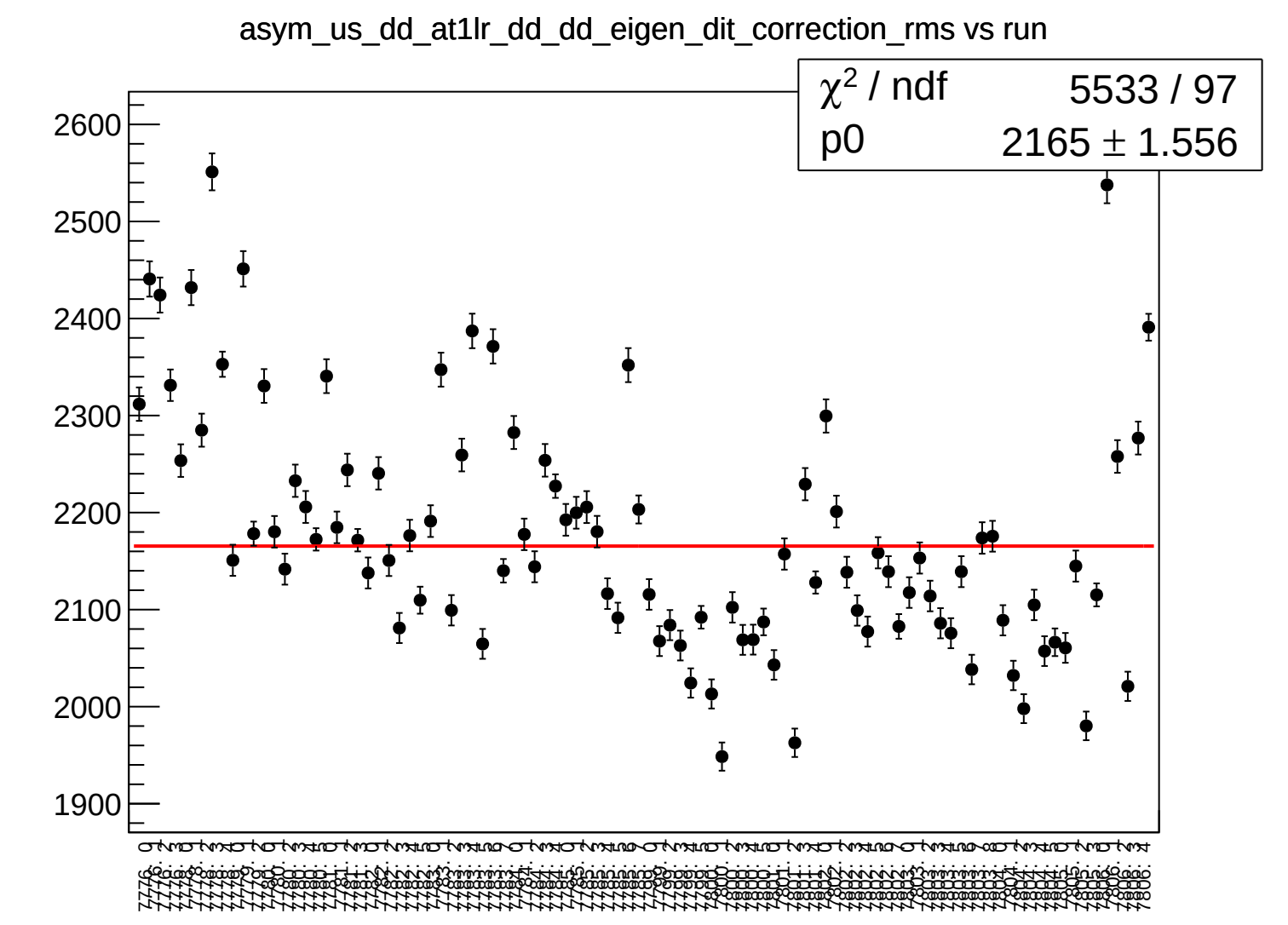

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 67.08 / 97
p0 −54.72 ± 2200
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −341.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.005104
Std Dev 0.8273
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

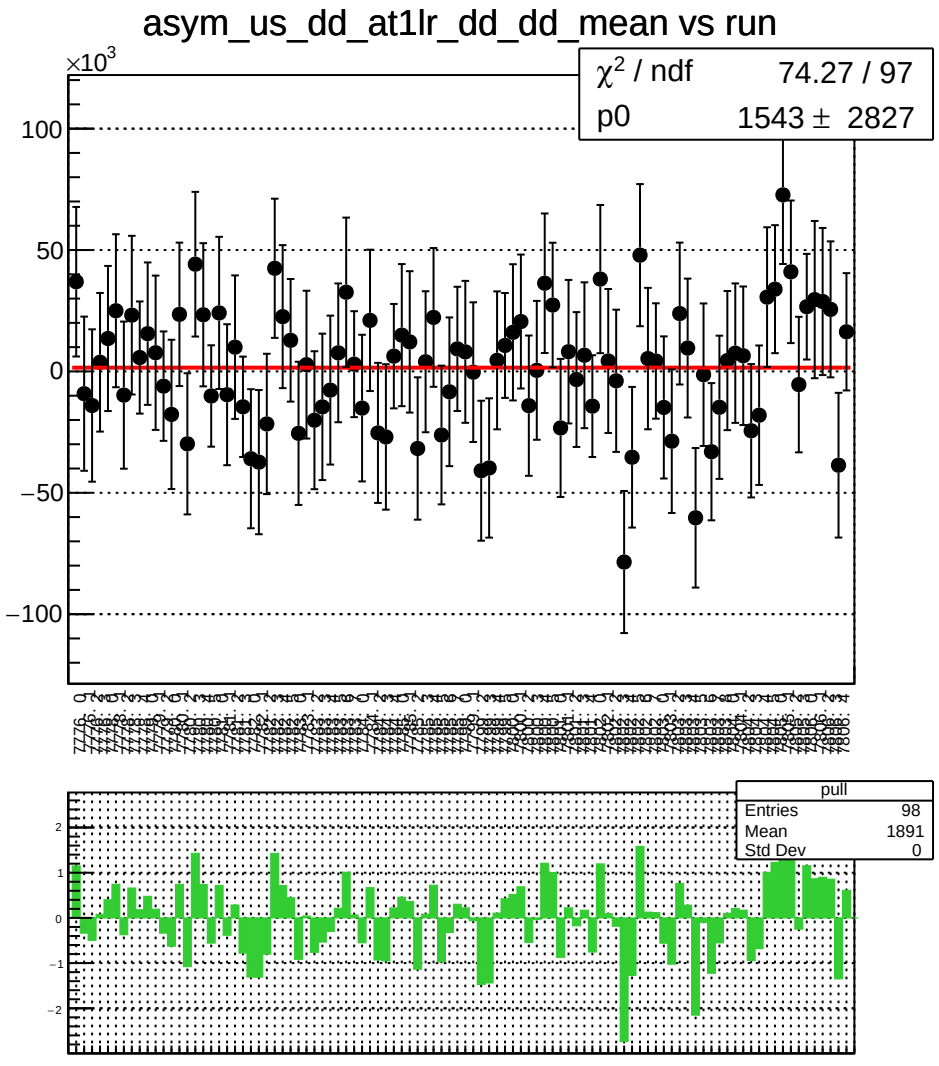

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 5533 / 97
p0 2165 ± 1.556
2600
2500
2400
2300
2200
2100
2000
1900

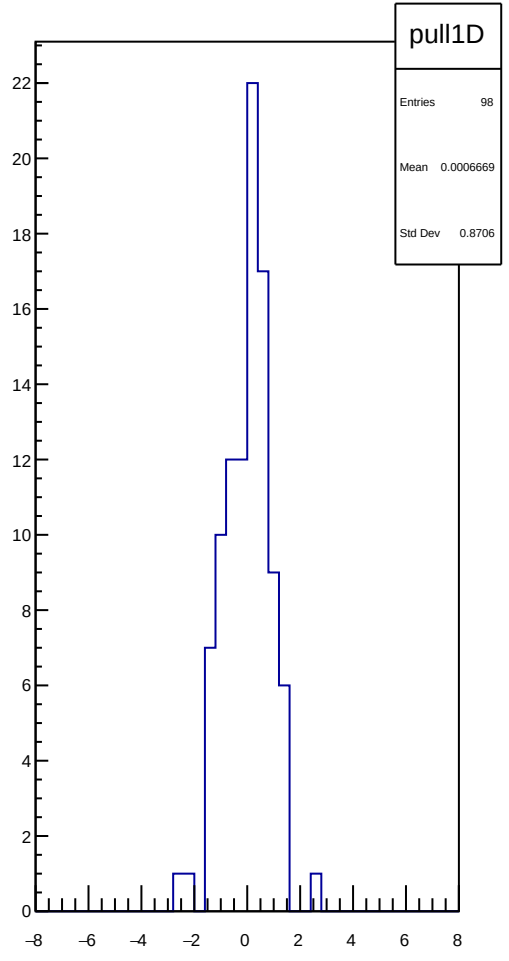

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 89 / 97
p0 1699 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −253.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.001786
Std Dev 0.953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

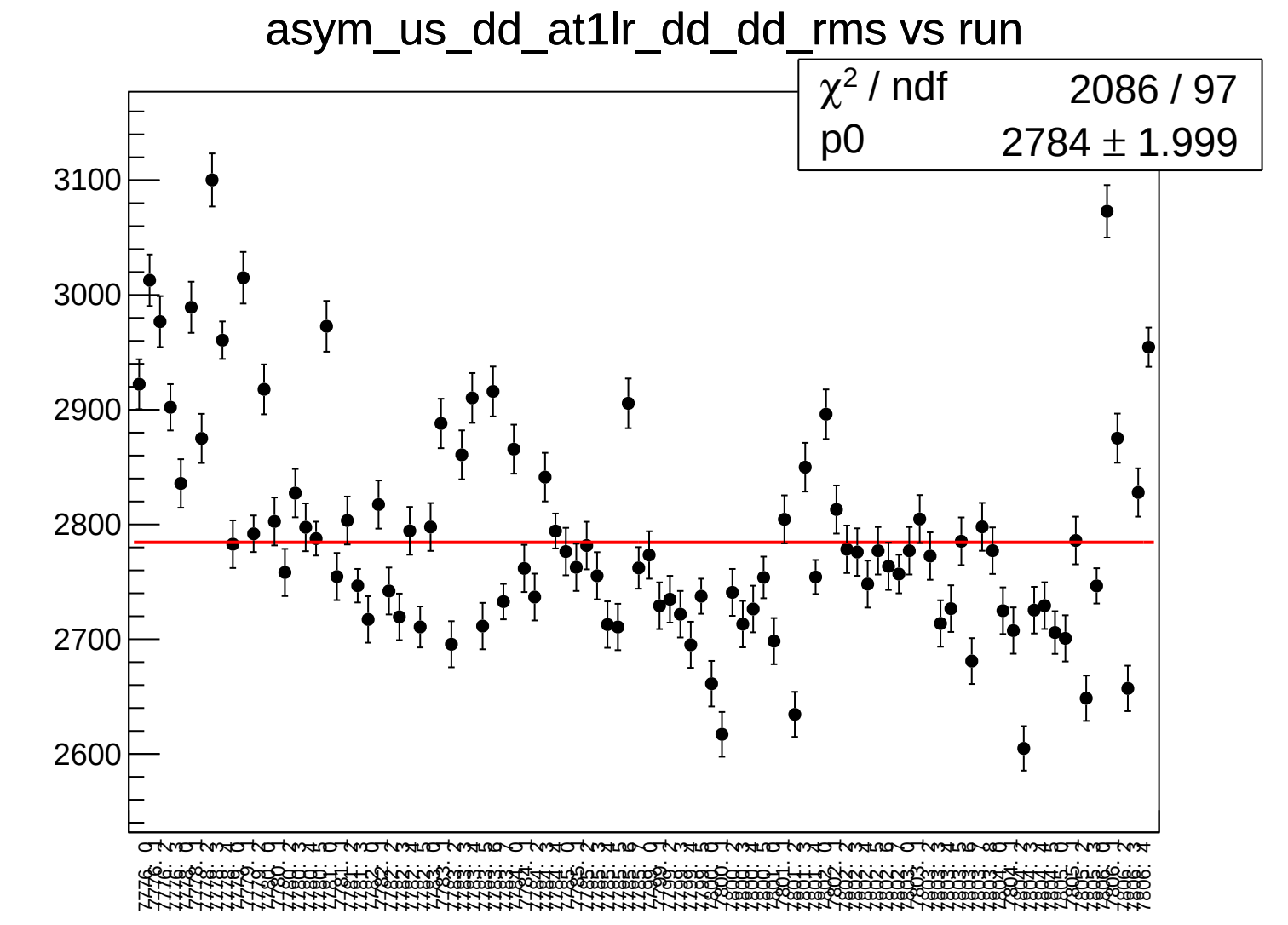

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 154 / 97
p0 1737 ± 1.246
1840
1820
1800
1780
1760
1740
1720
1700

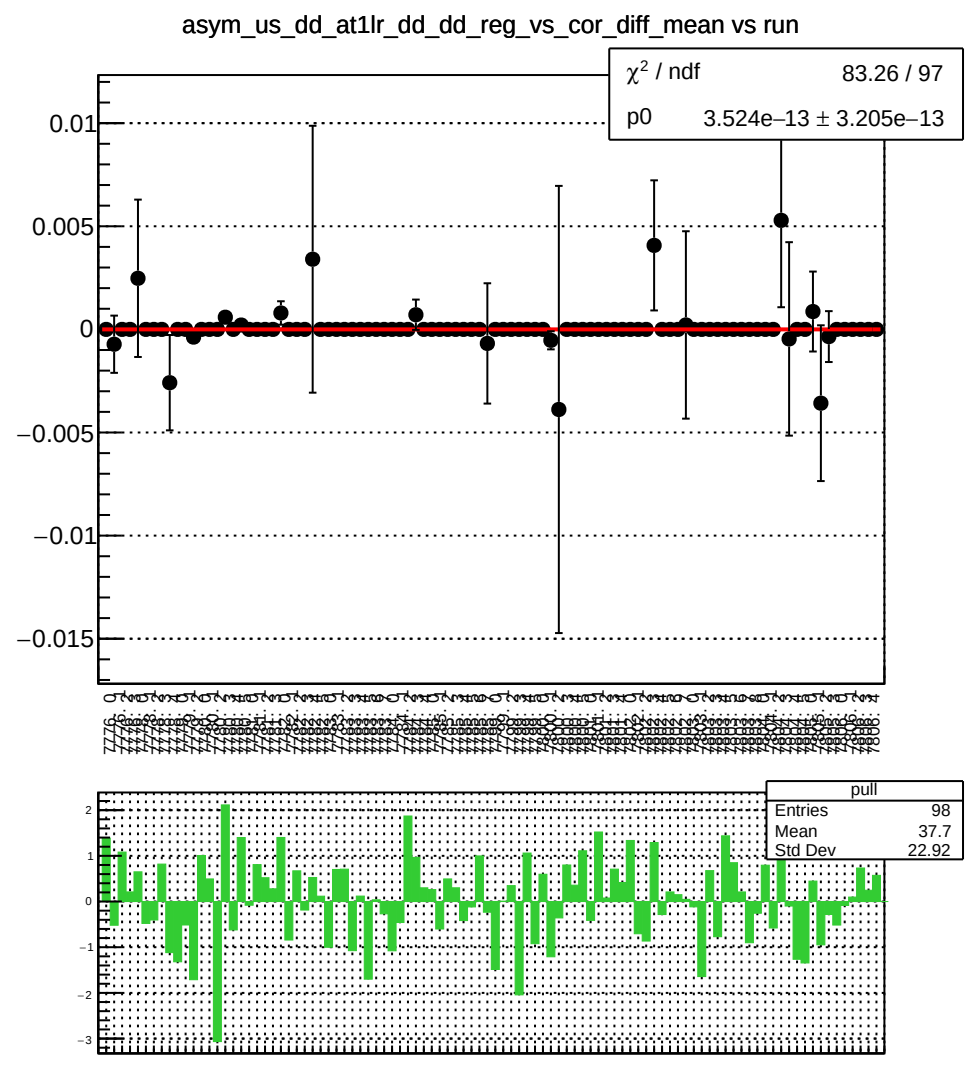

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.08 / 97
p0 −54.72 ± 2200
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −341.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.005104
Std Dev 0.8273
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

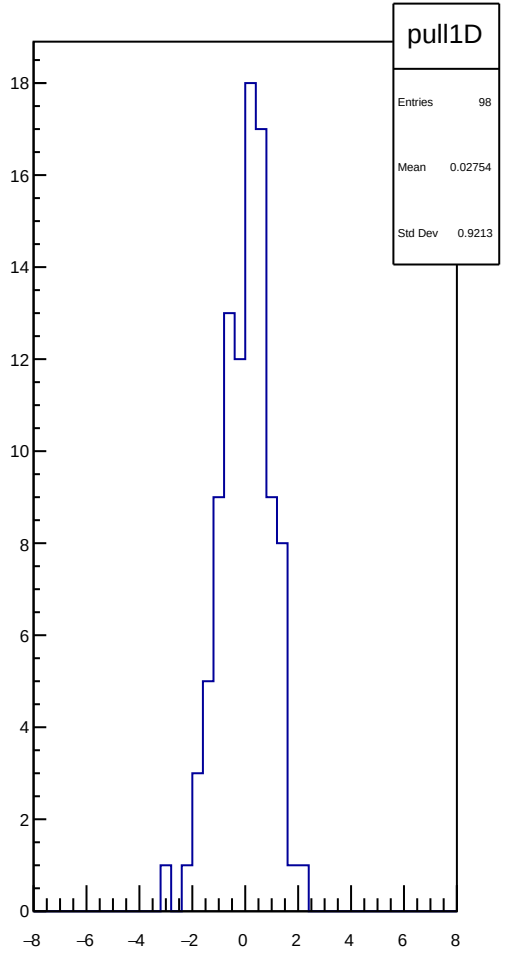

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5533 / 97
p0 2165 ± 1.556
2600
2500
2400
2300
2200
2100
2000
1900

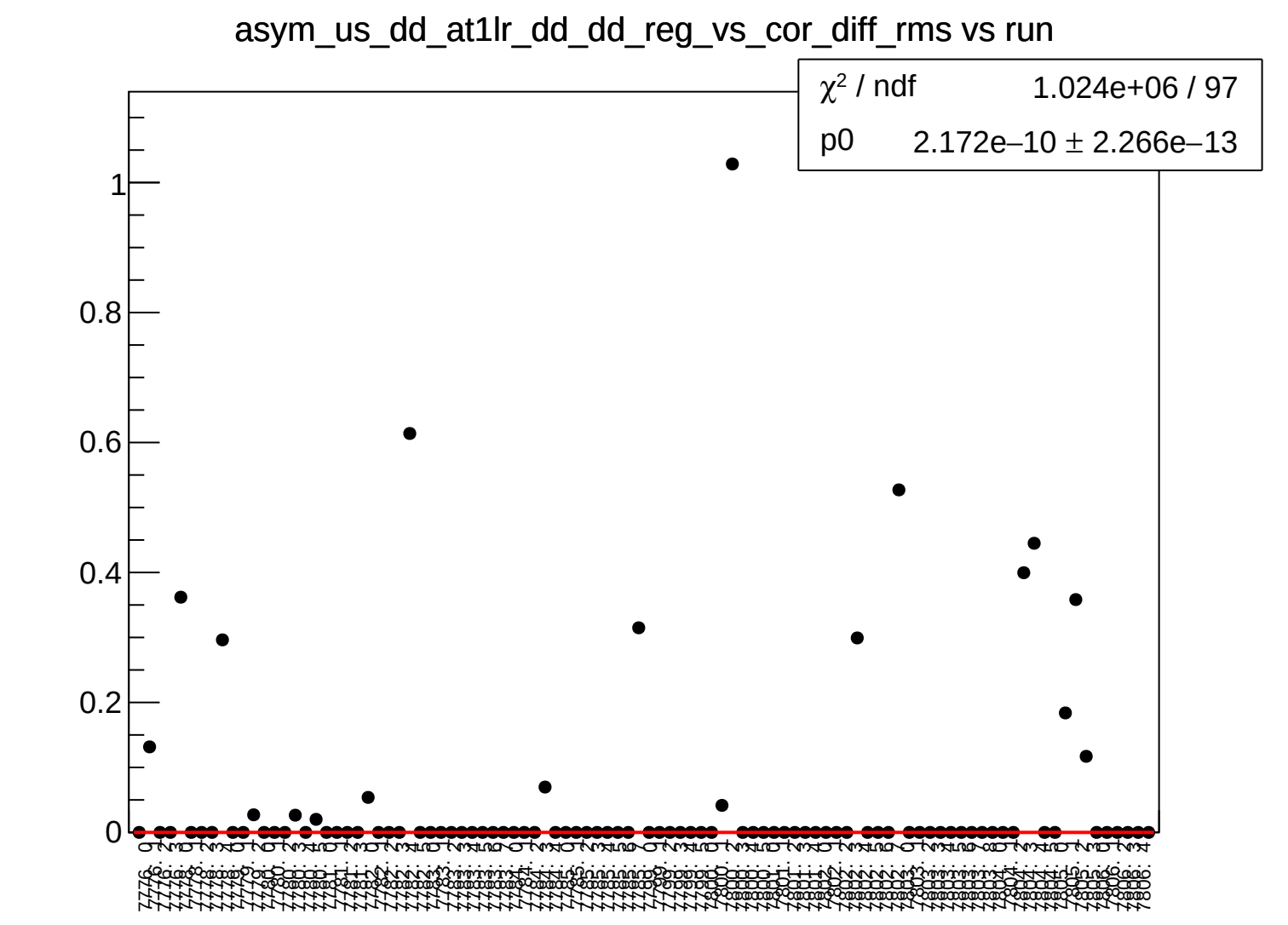

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 74.27 / 97
p0 1543 ± 2827
100
50
0
−50
−100
pull
Entries 98
Mean 1891
Std Dev 0
2
1
0
−1
−2

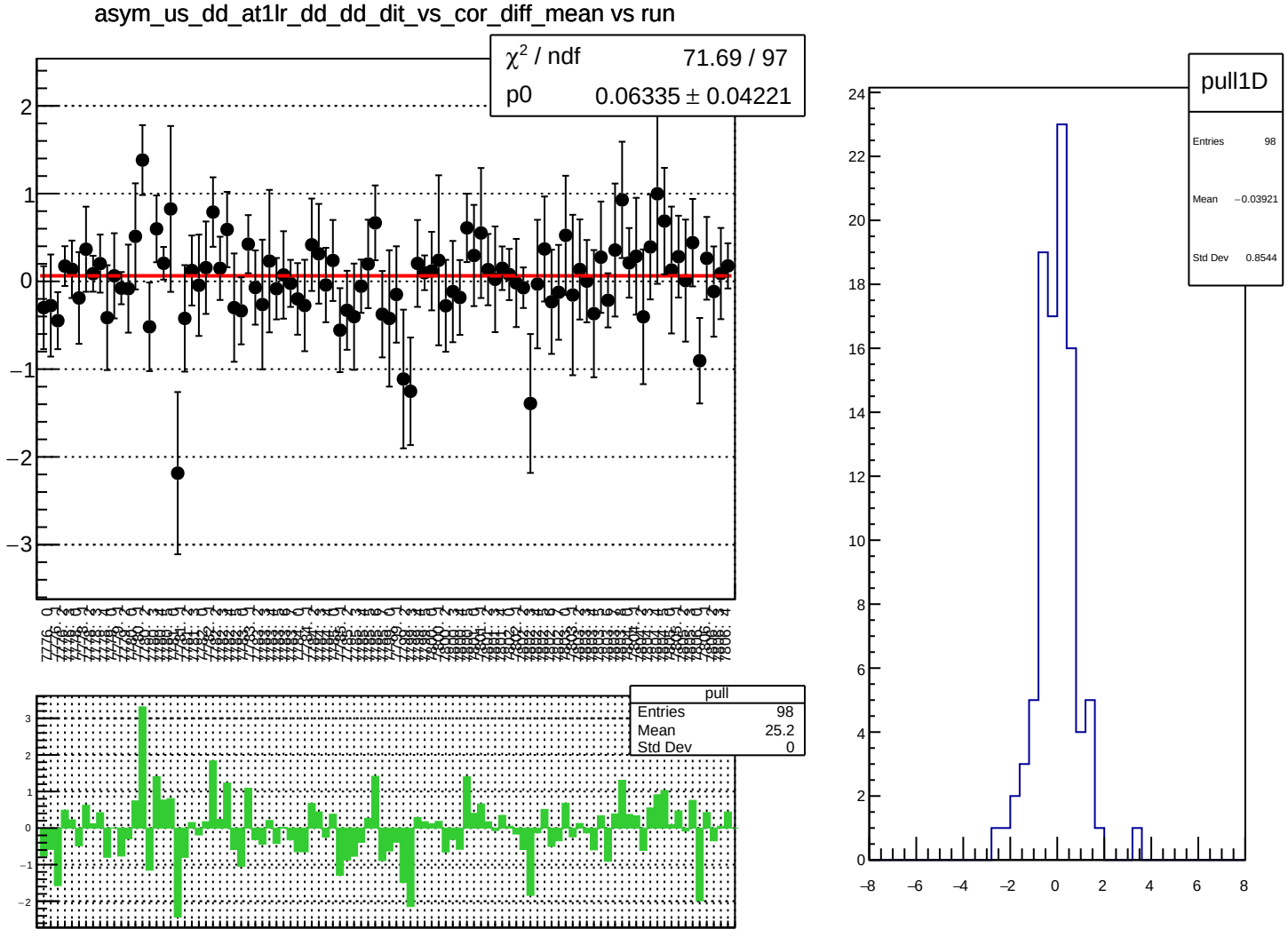

pull1D
Entries 98
Mean 0.0006669
Std Dev 0.8706
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

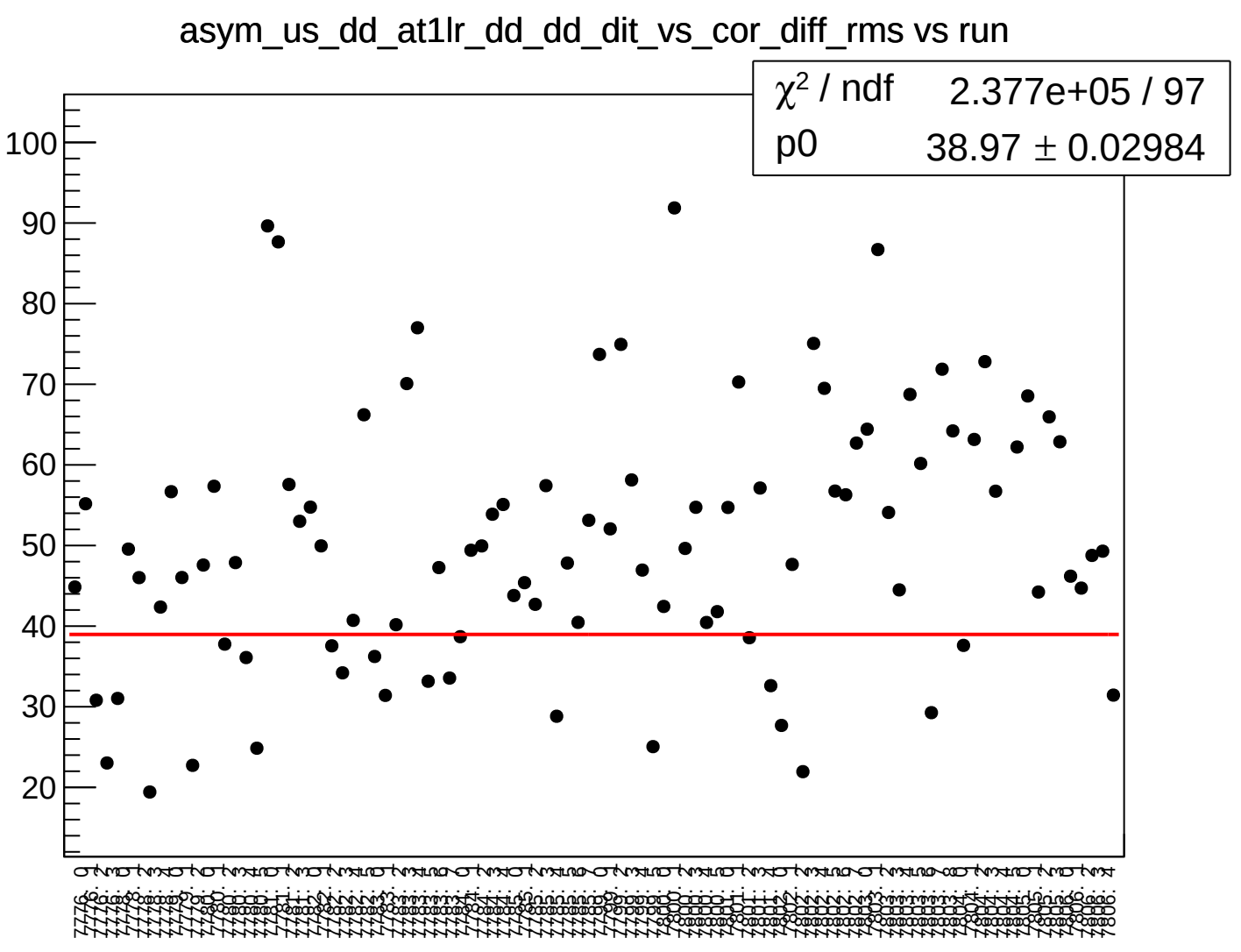

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 2086 / 97
p0 2784 ± 1.999
3100
3000
2900
2800
2700
2600

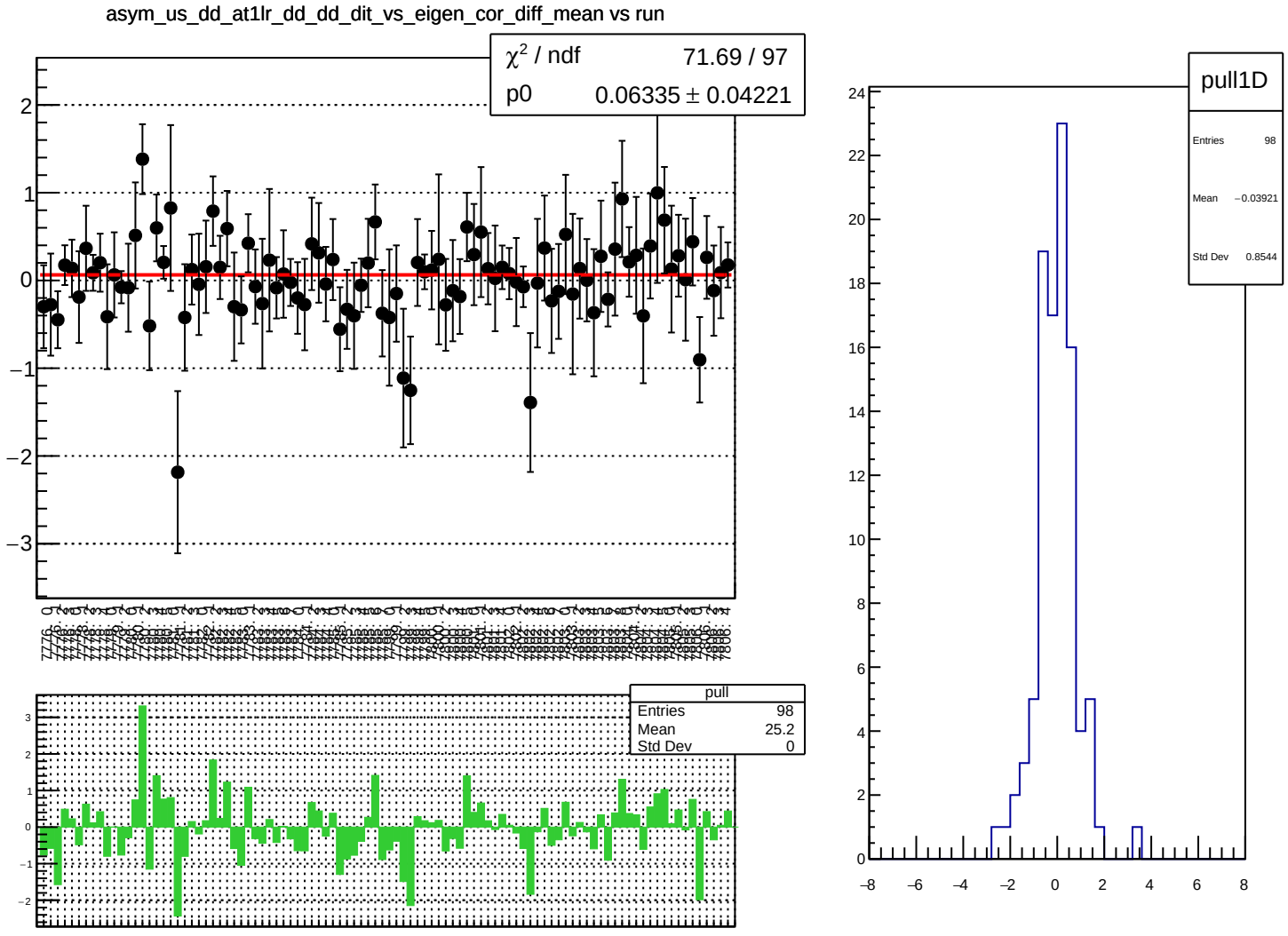

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.26 / 97
p0 3.524e−13 ± 3.205e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 98
Mean 37.7
Std Dev 22.92
2
1
0
−1
−2
−3

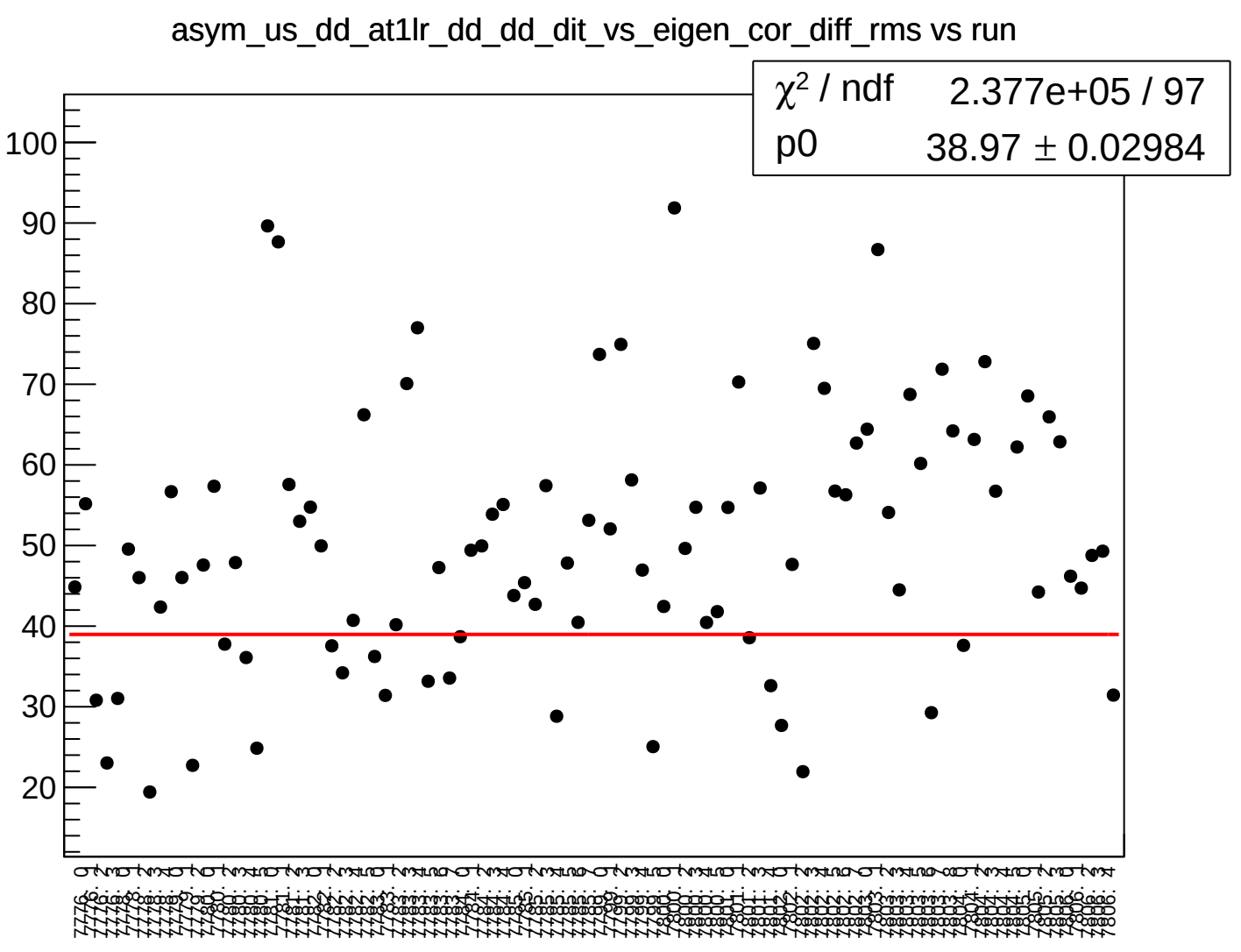

pull1D
Entries 98
Mean 0.02754
Std Dev 0.9213
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

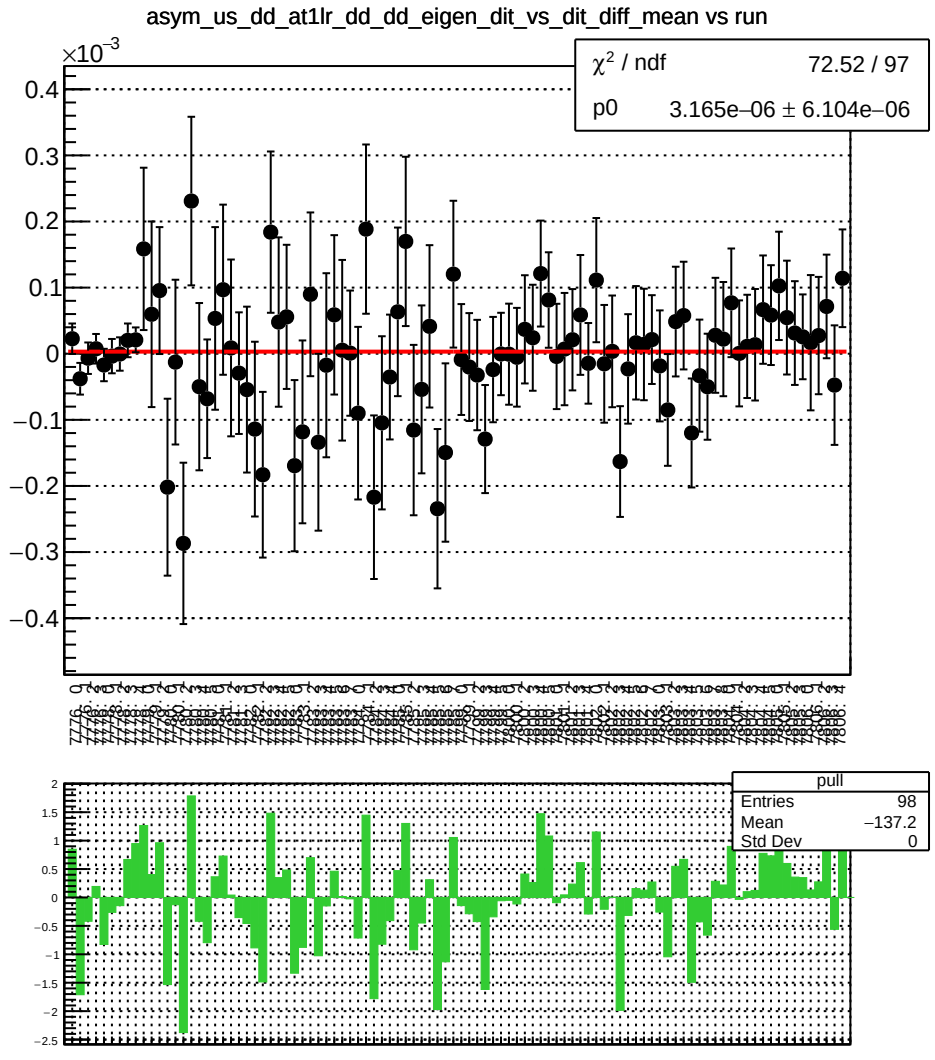

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 97
p0 2.172e−10 ± 2.266e−13
1
0.8
0.6
0.4
0.2
0

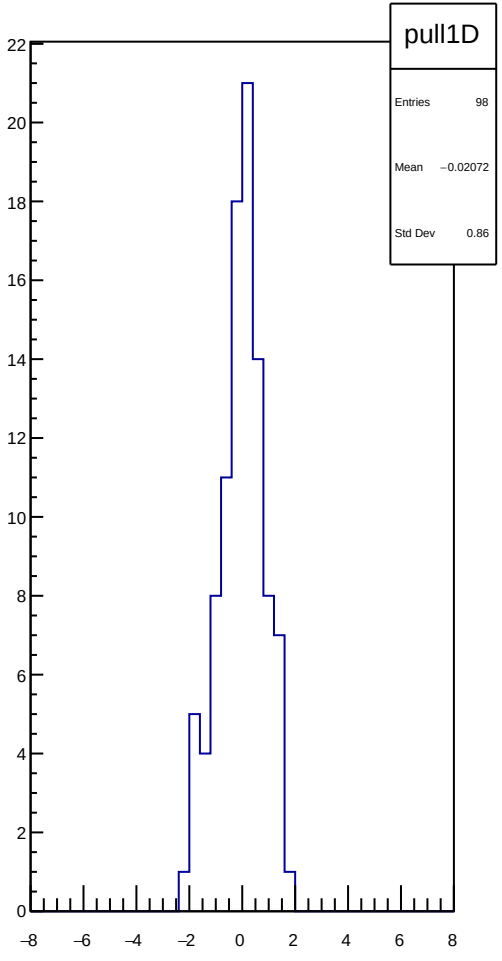

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.69 / 97
p0 0.06335 ± 0.04221
pull
Entries 98
Mean 25.2
Std Dev 0
pull1D
Entries 98
Mean −0.03921
Std Dev 0.8544

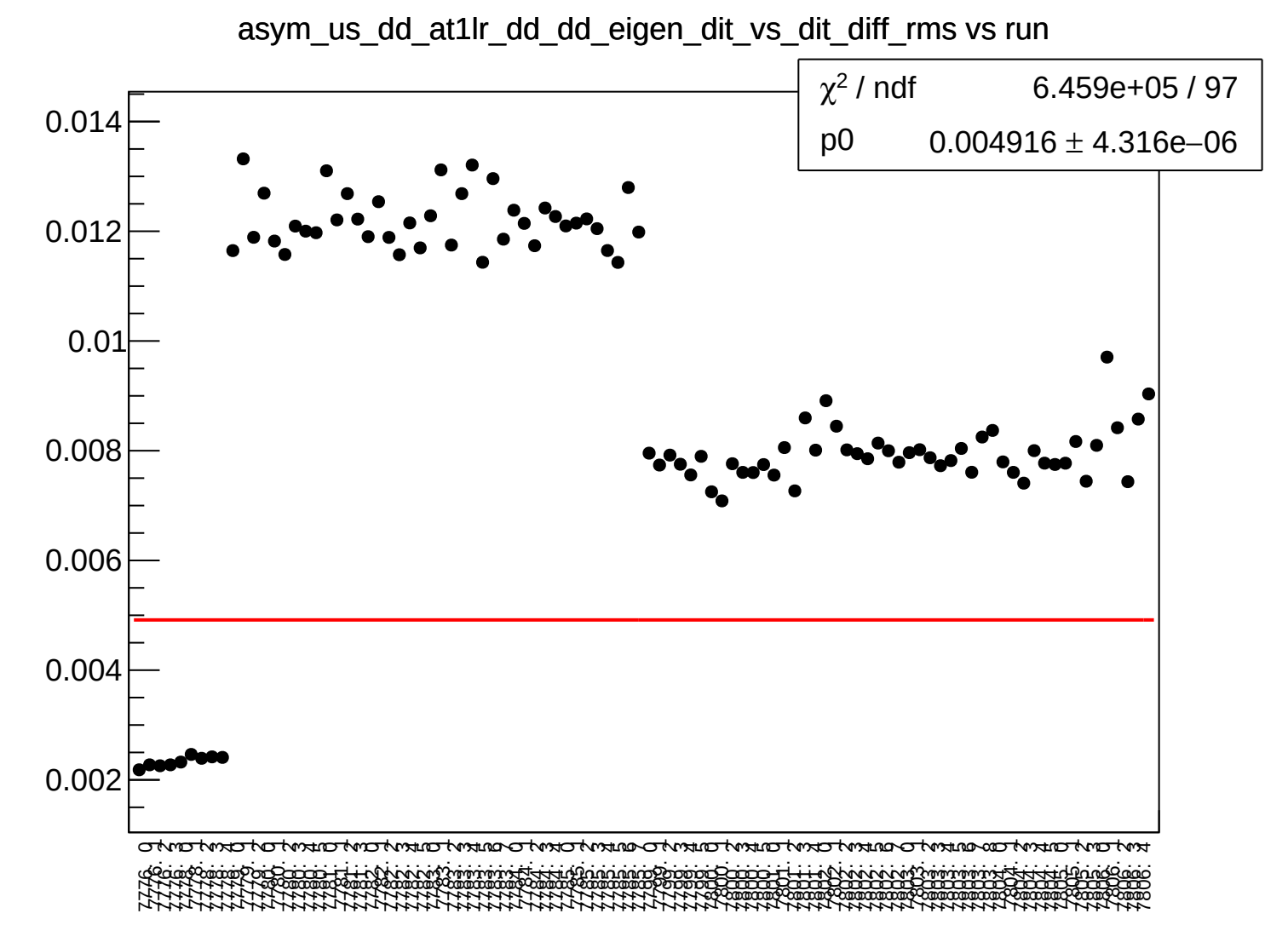

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.377e+05 / 97
p0 38.97 ± 0.02984
100
90
80
70
60
50
40
30
20

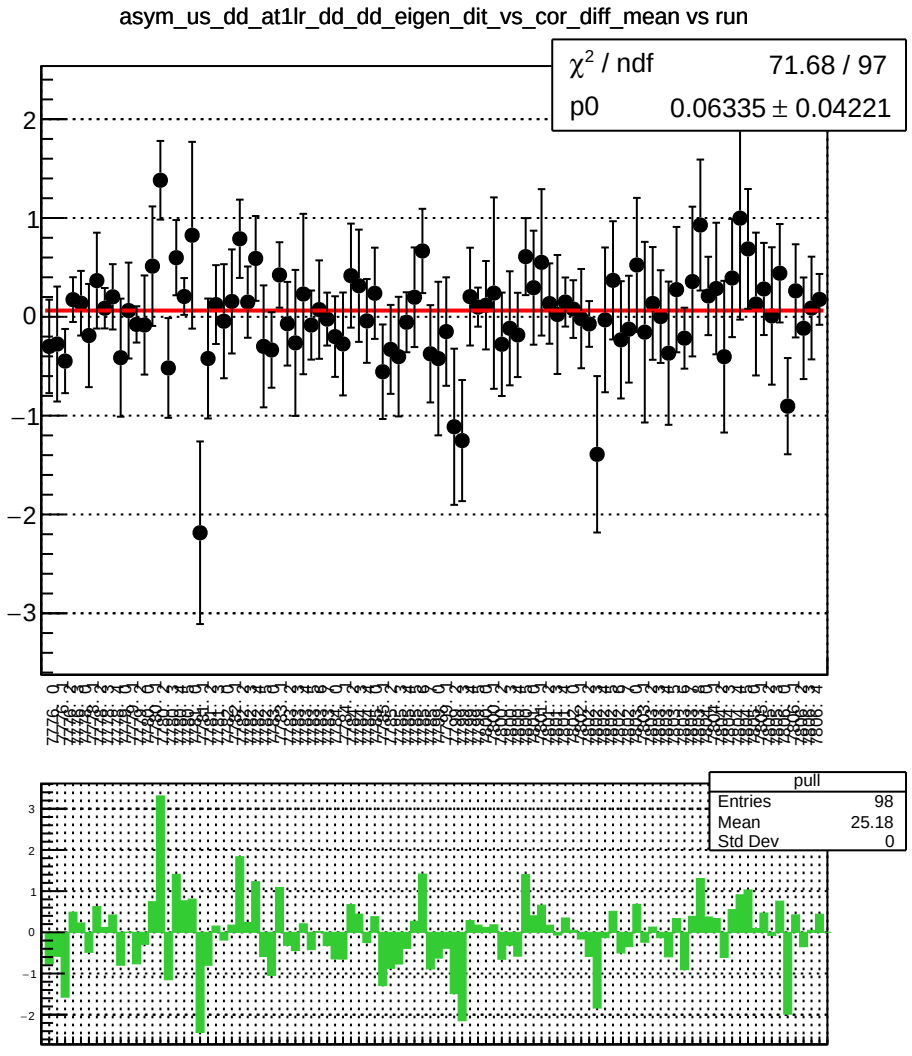

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.69 / 97
p0 0.06335 ± 0.04221
pull
Entries 98
Mean 25.2
Std Dev 0
pull1D
Entries 98
Mean −0.03921
Std Dev 0.8544

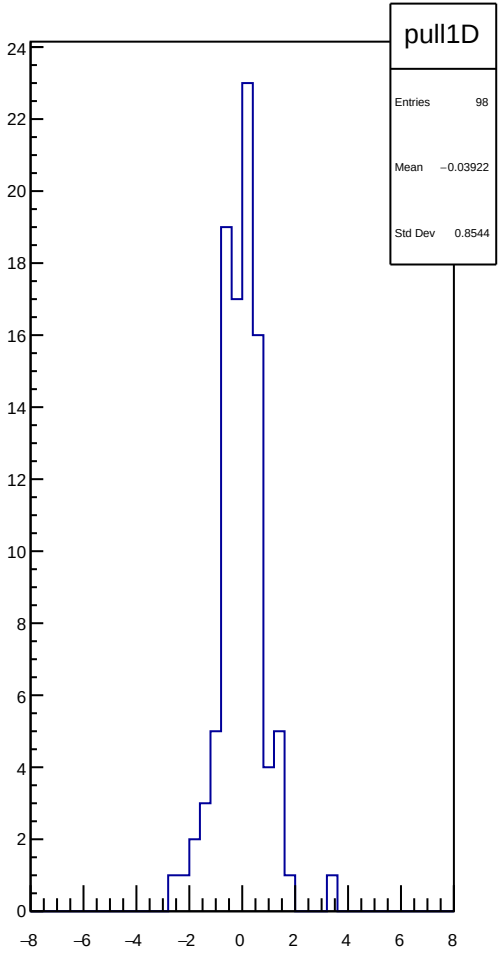

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.377e+05 / 97
p0 38.97 ± 0.02984
100
90
80
70
60
50
40
30
20

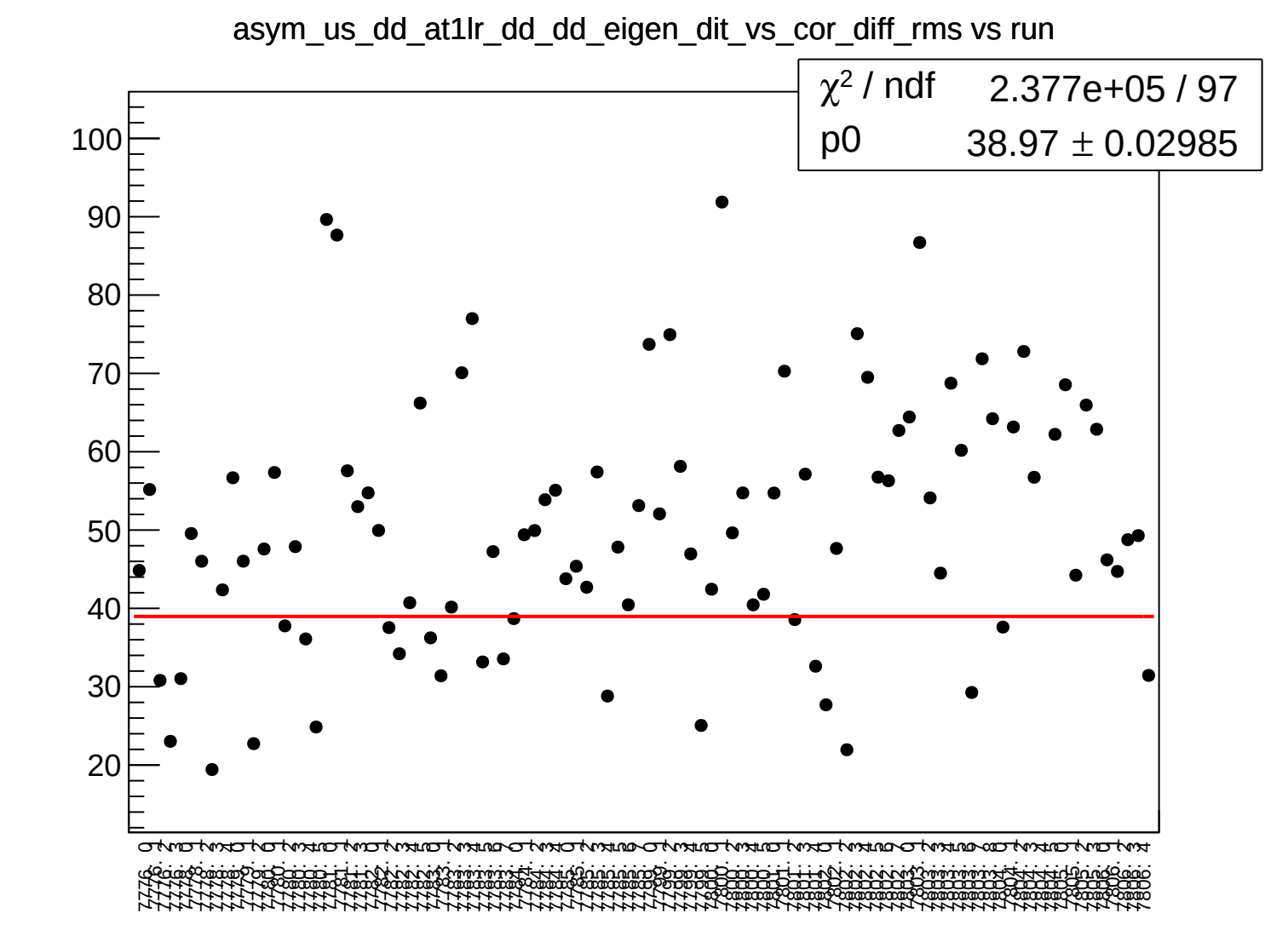

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.52 / 97
p0 3.165e−06 ± 6.104e−06
pull
Entries 98
Mean −137.2
Std Dev 0

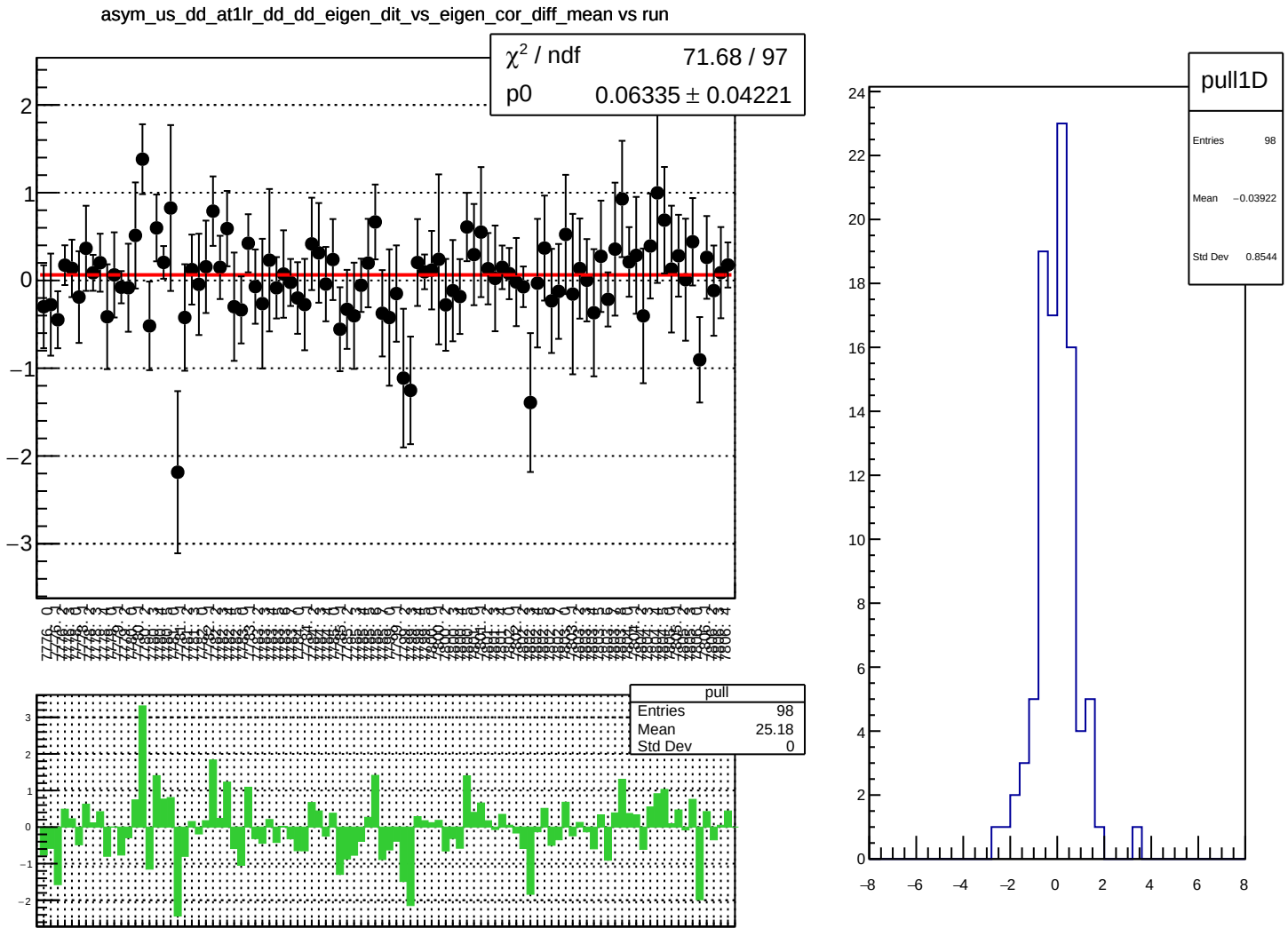

pull1D
Entries 98
Mean −0.02072
Std Dev 0.86

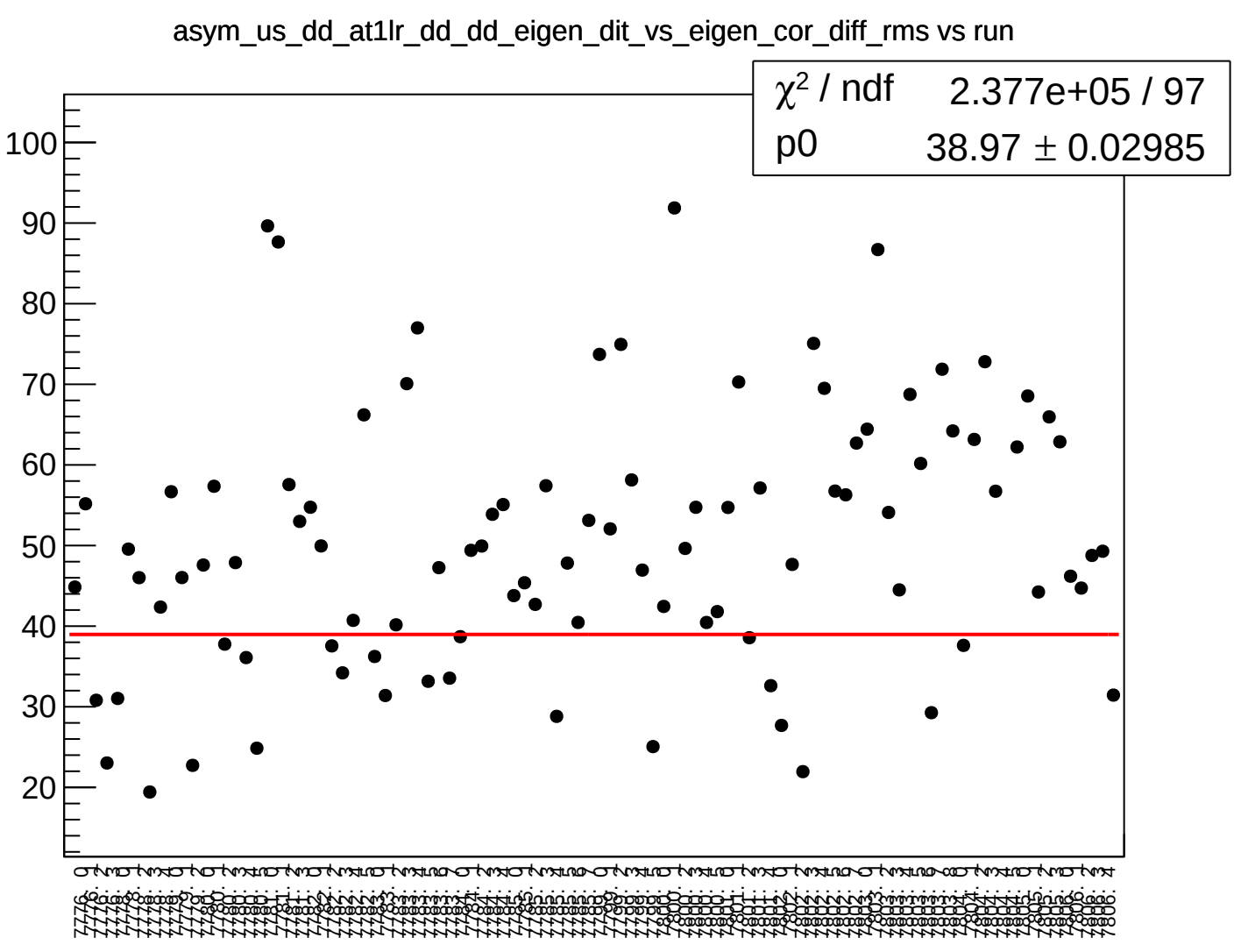

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.459e+05 / 97
p0 0.004916 ± 4.316e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

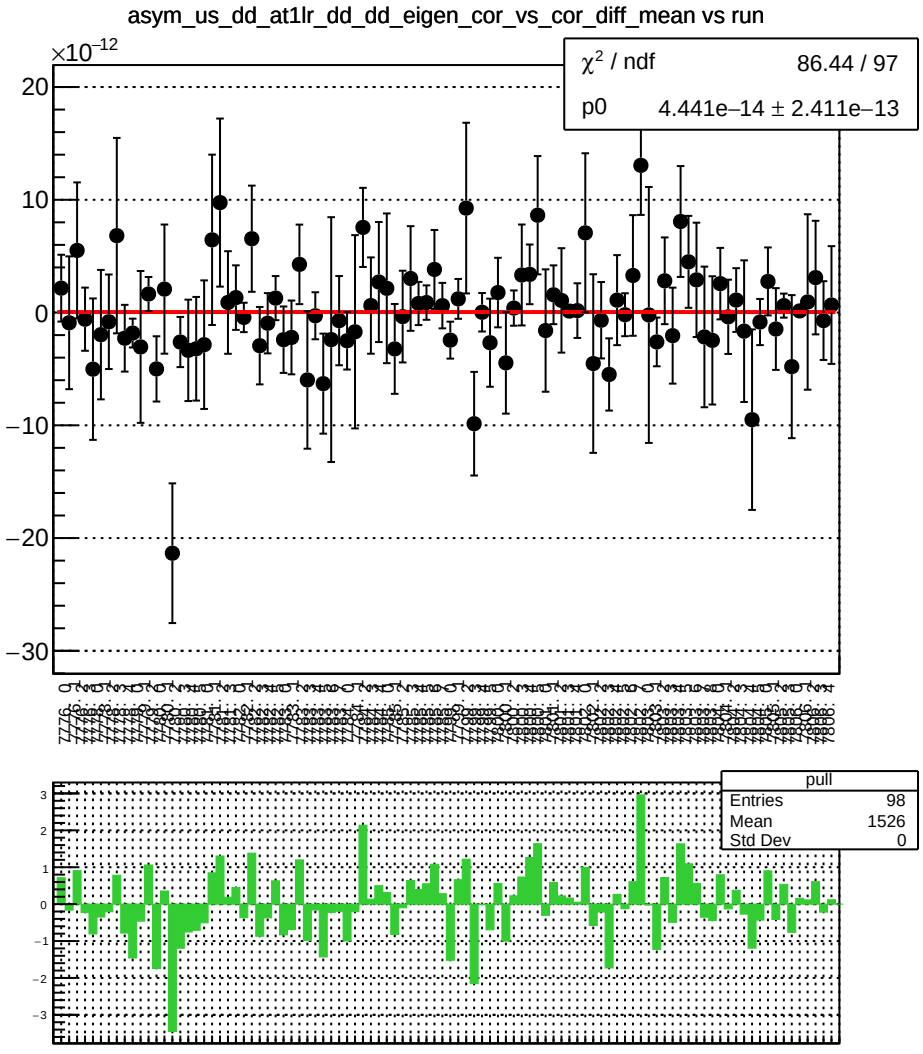

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 71.68 / 97
p0 0.06335 ± 0.04221
pull
Entries 98
Mean 25.18
Std Dev 0

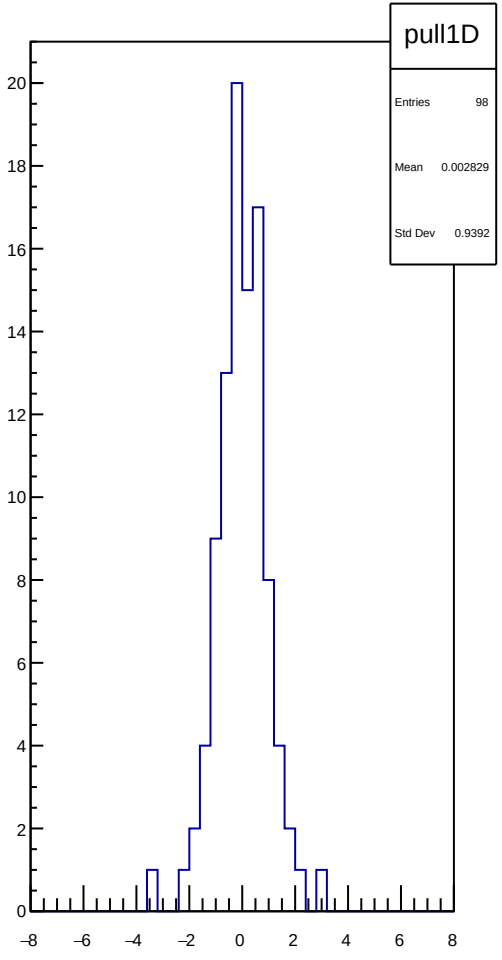

pull1D
Entries 98
Mean −0.03922
Std Dev 0.8544

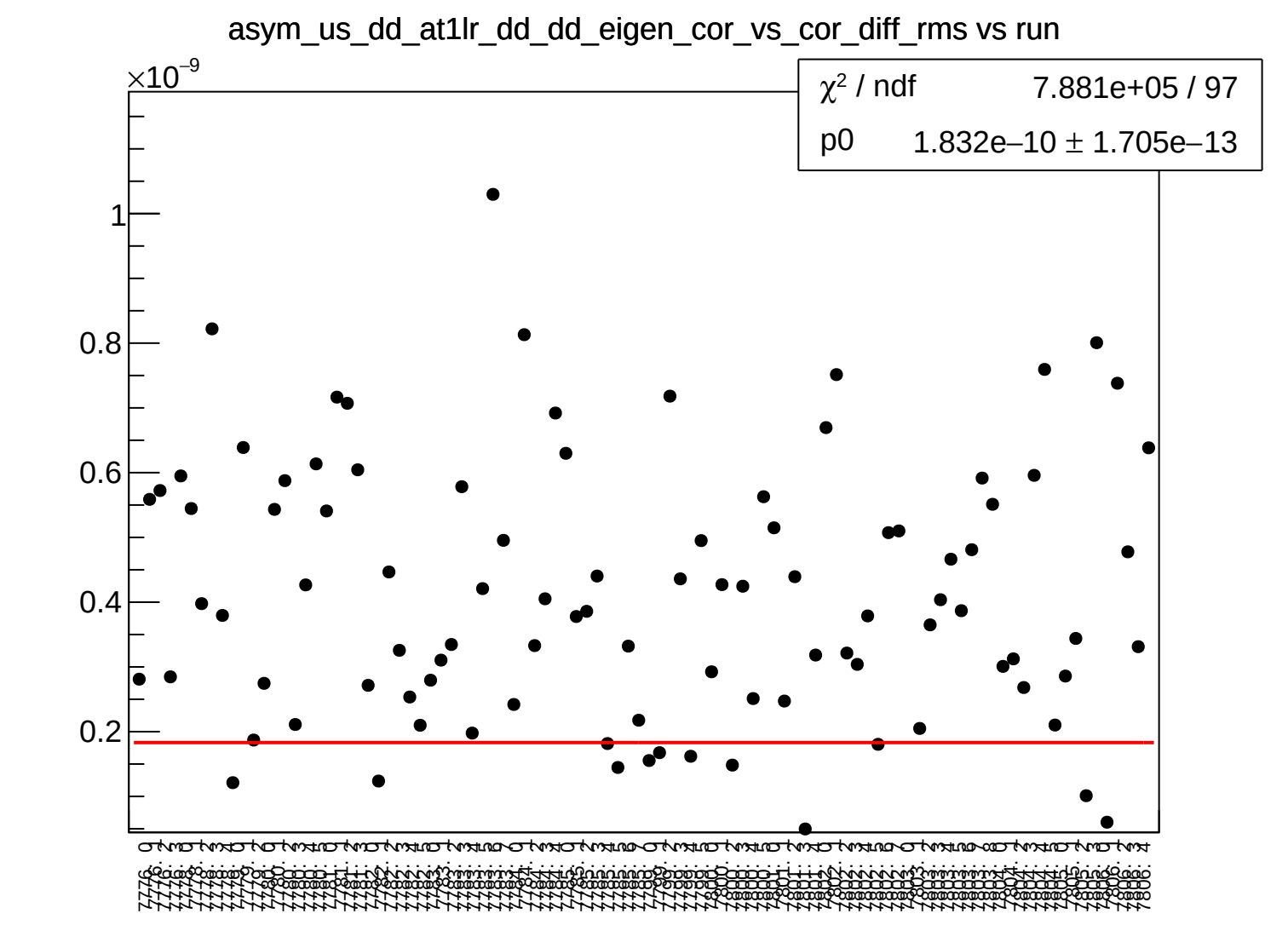

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.377e+05 / 97
p0 38.97 ± 0.02985
100
90
80
70
60
50
40
30
20

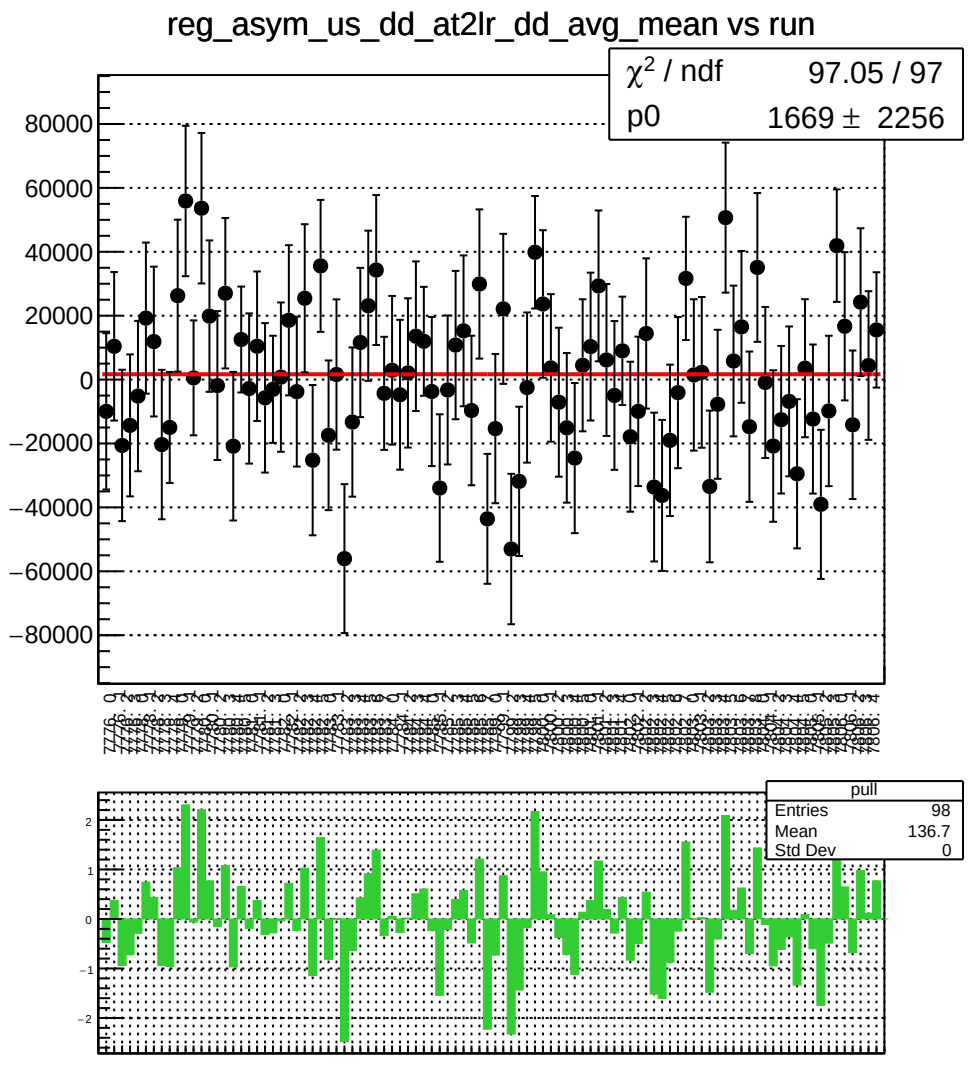

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.68 / 97
p0 0.06335 ± 0.04221
pull
Entries 98
Mean 25.18
Std Dev 0
pull1D
Entries 98
Mean −0.03922
Std Dev 0.8544

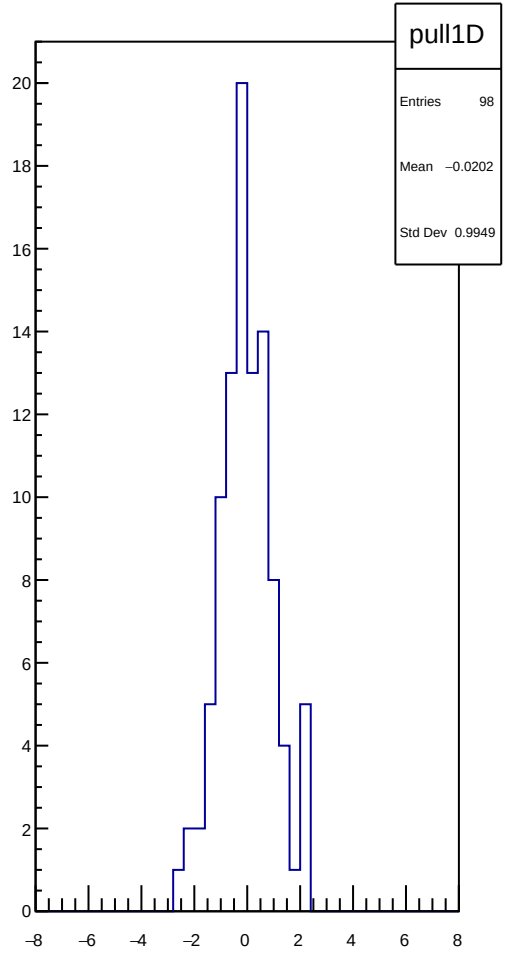

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.377e+05 / 97
p0 38.97 ± 0.02985
100
90
80
70
60
50
40
30
20

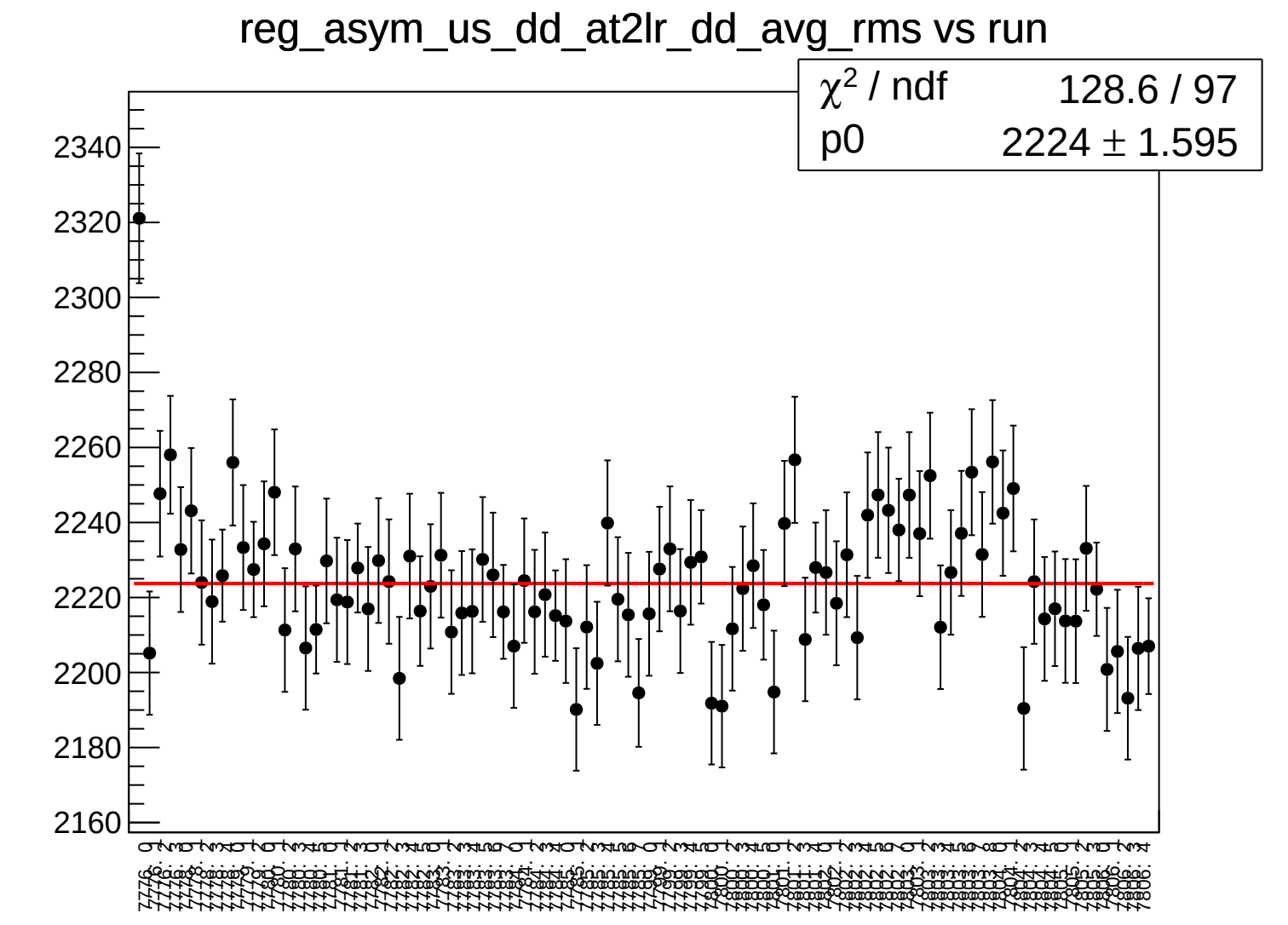

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 86.44 / 97
p0 4.441e−14 ± 2.411e−13
pull
Entries 98
Mean 1526
Std Dev 0

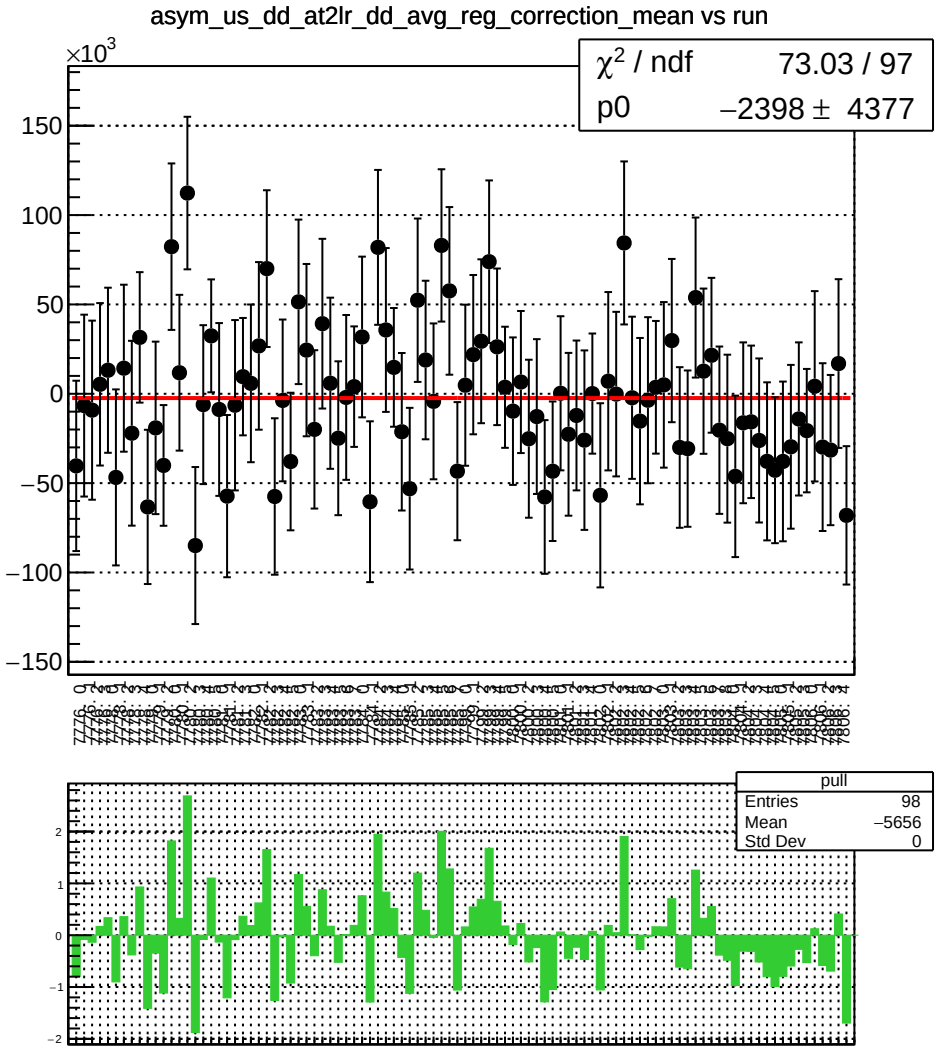

pull1D
Entries 98
Mean 0.002829
Std Dev 0.9392

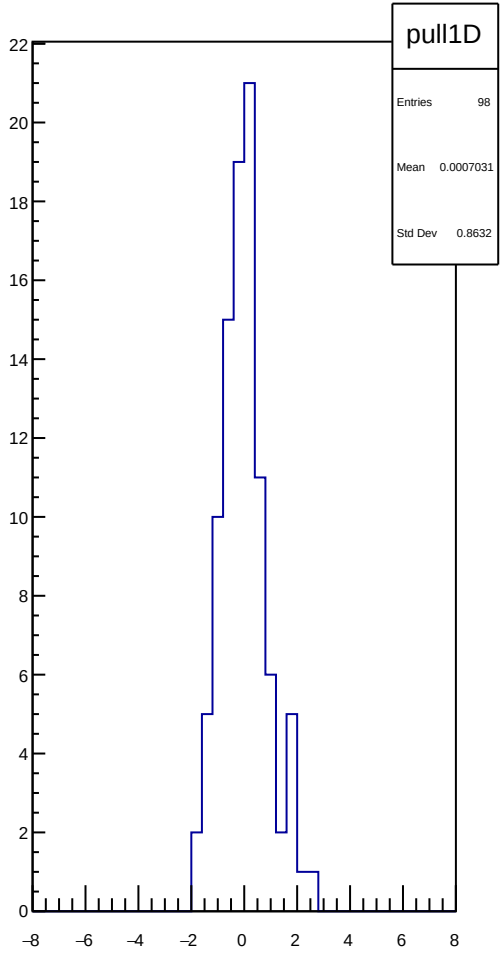

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.881e+05 / 97
p0 1.832e−10 ± 1.705e−13
1
0.8
0.6
0.4
0.2

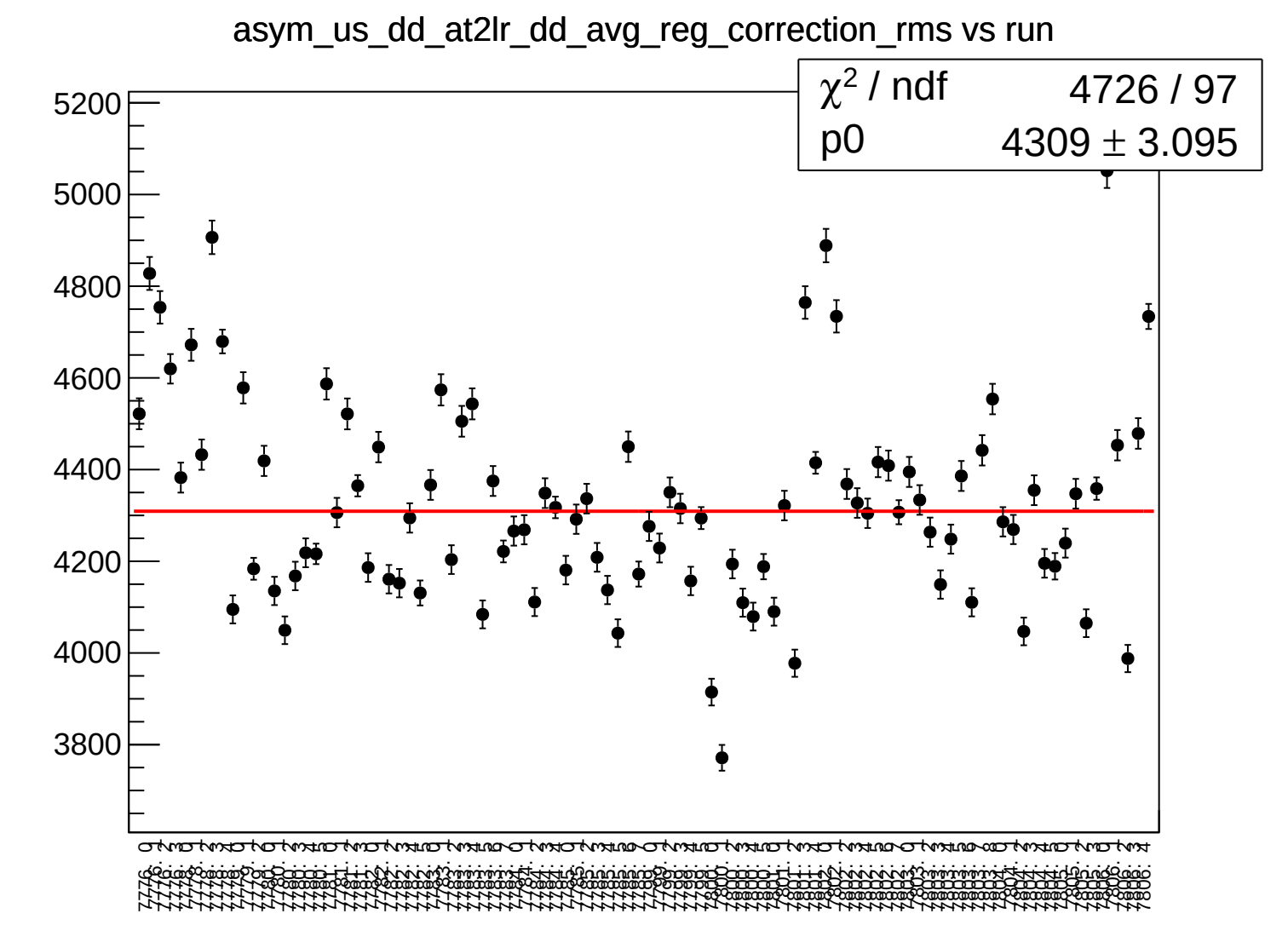

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 97.05 / 97
p0 1669 ± 2256
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 136.7
Std Dev 0
2
1
0
−1
−2

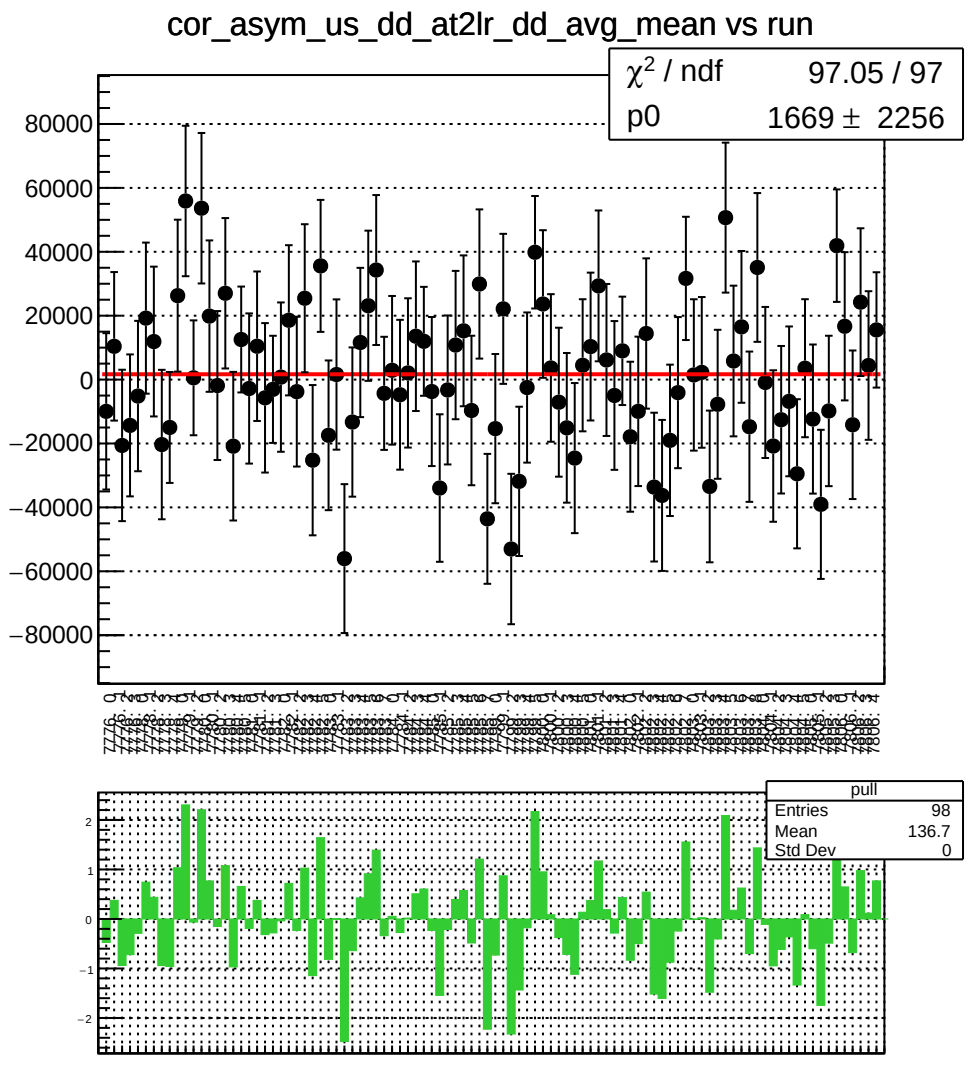

pull1D
Entries 98
Mean −0.0202
Std Dev 0.9949
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

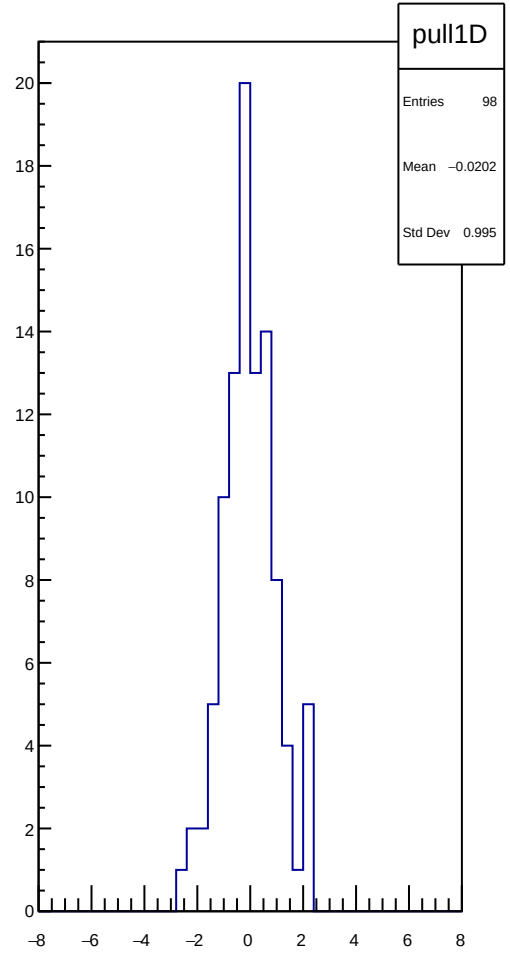

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 128.6 / 97
p0 2224 ± 1.595
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

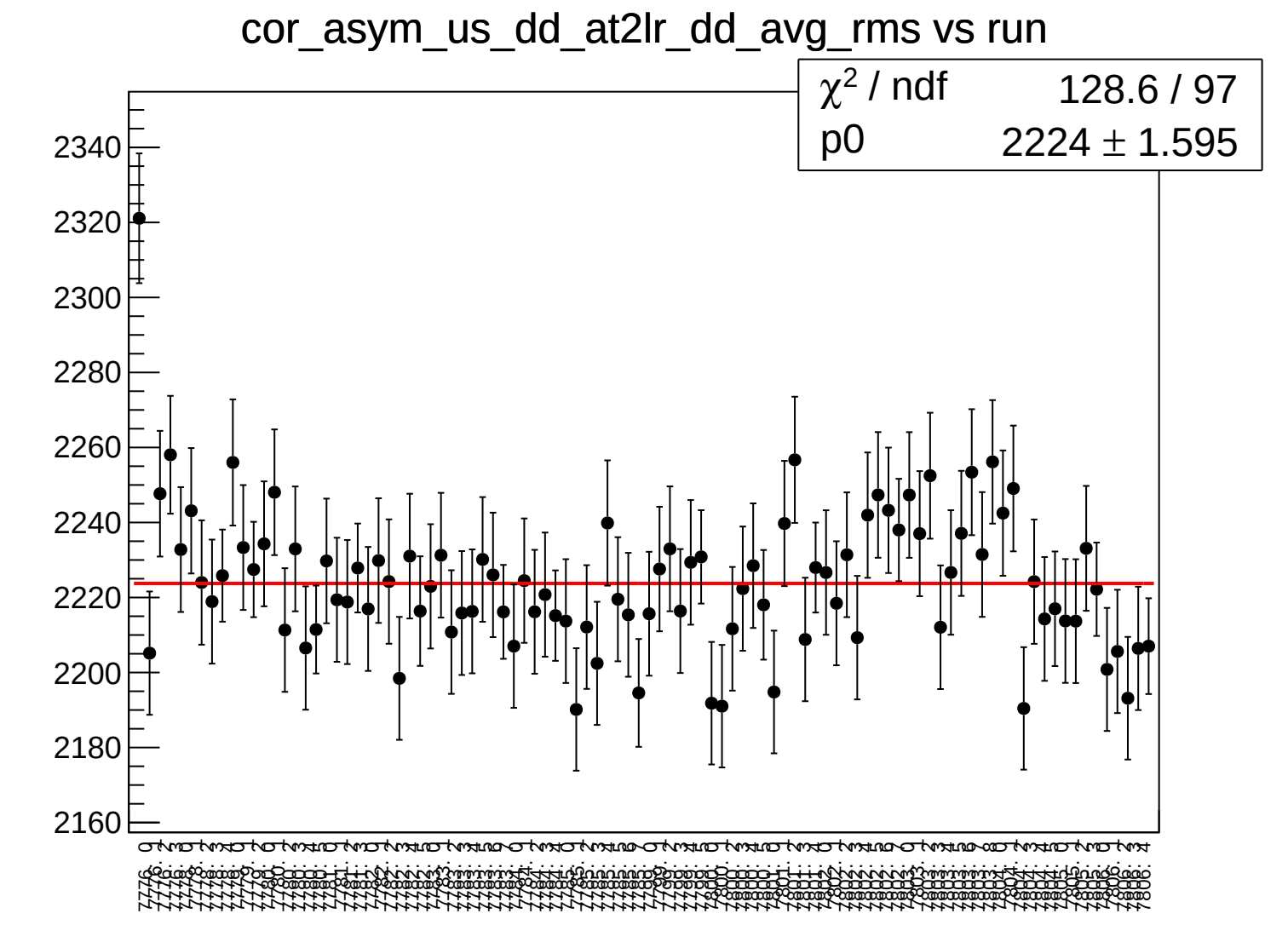

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 73.03 / 97
p0 −2398 ± 4377
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −5656
Std Dev 0
2
1
0
−1
−2

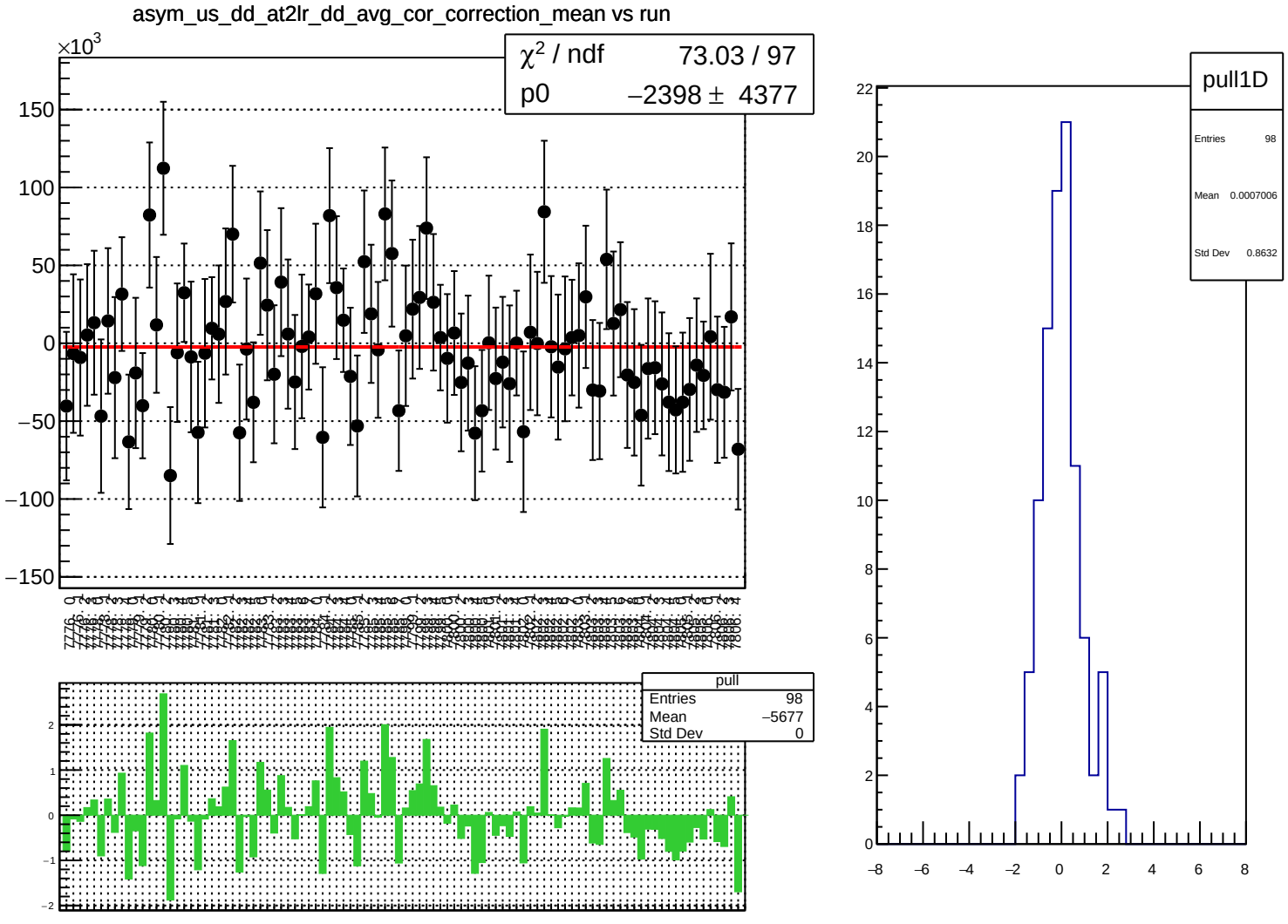

pull1D
Entries 98
Mean 0.0007031
Std Dev 0.8632
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

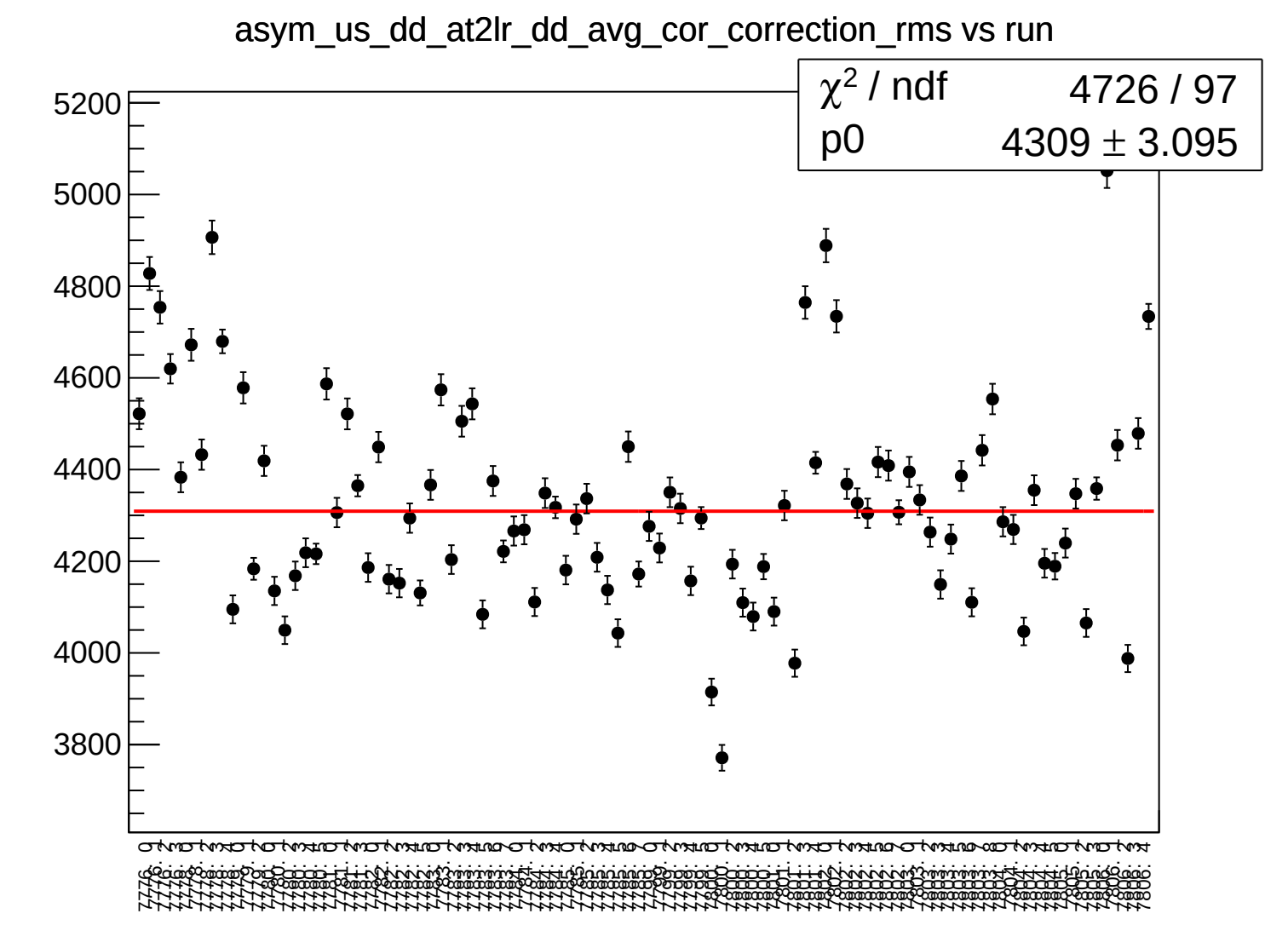

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 4726 / 97
p0 4309 ± 3.095
5200
5000
4800
4600
4400
4200
4000
3800

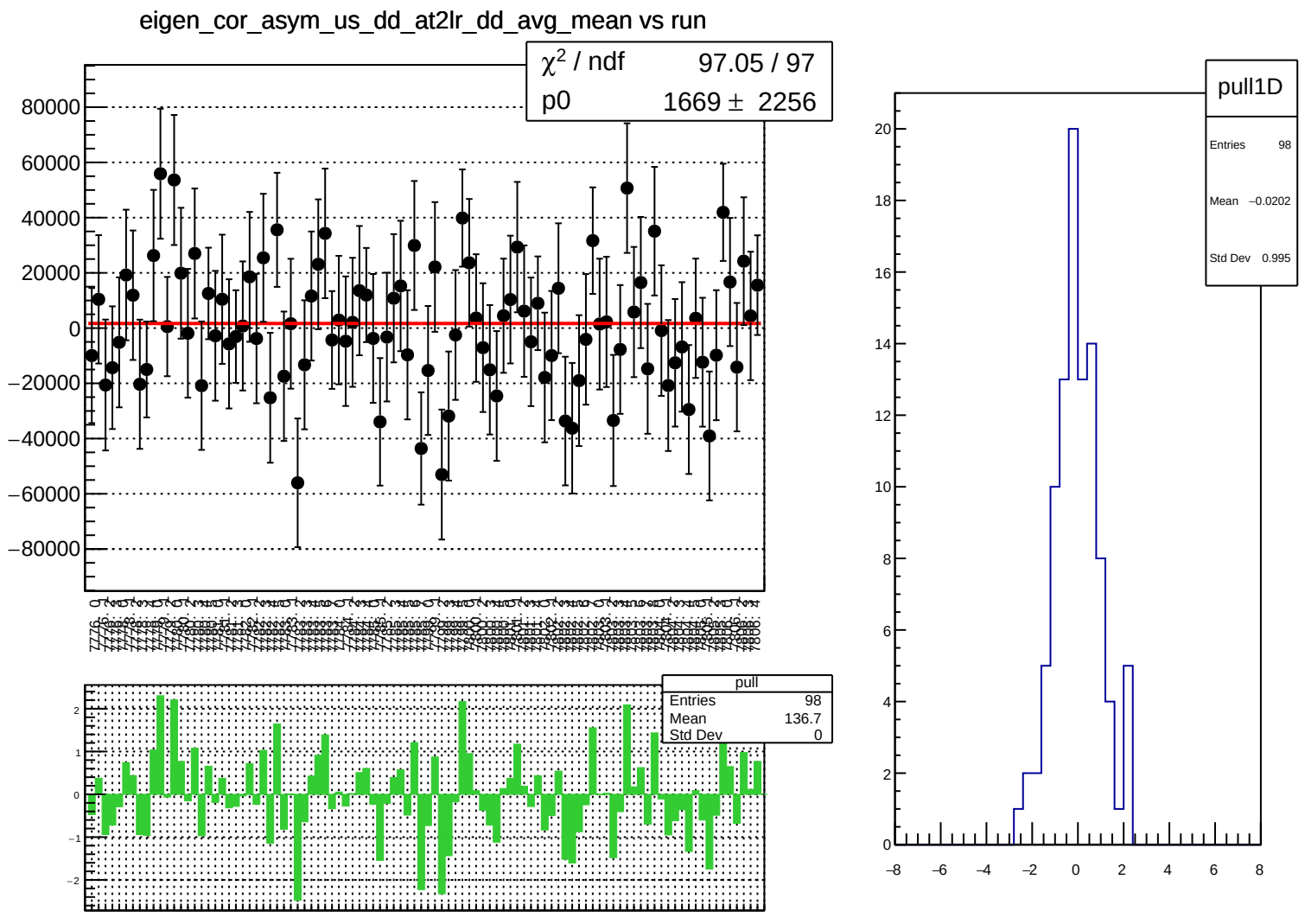

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 97.05 / 97
p0 1669 ± 2256
pull
Entries 98
Mean 136.7
Std Dev 0

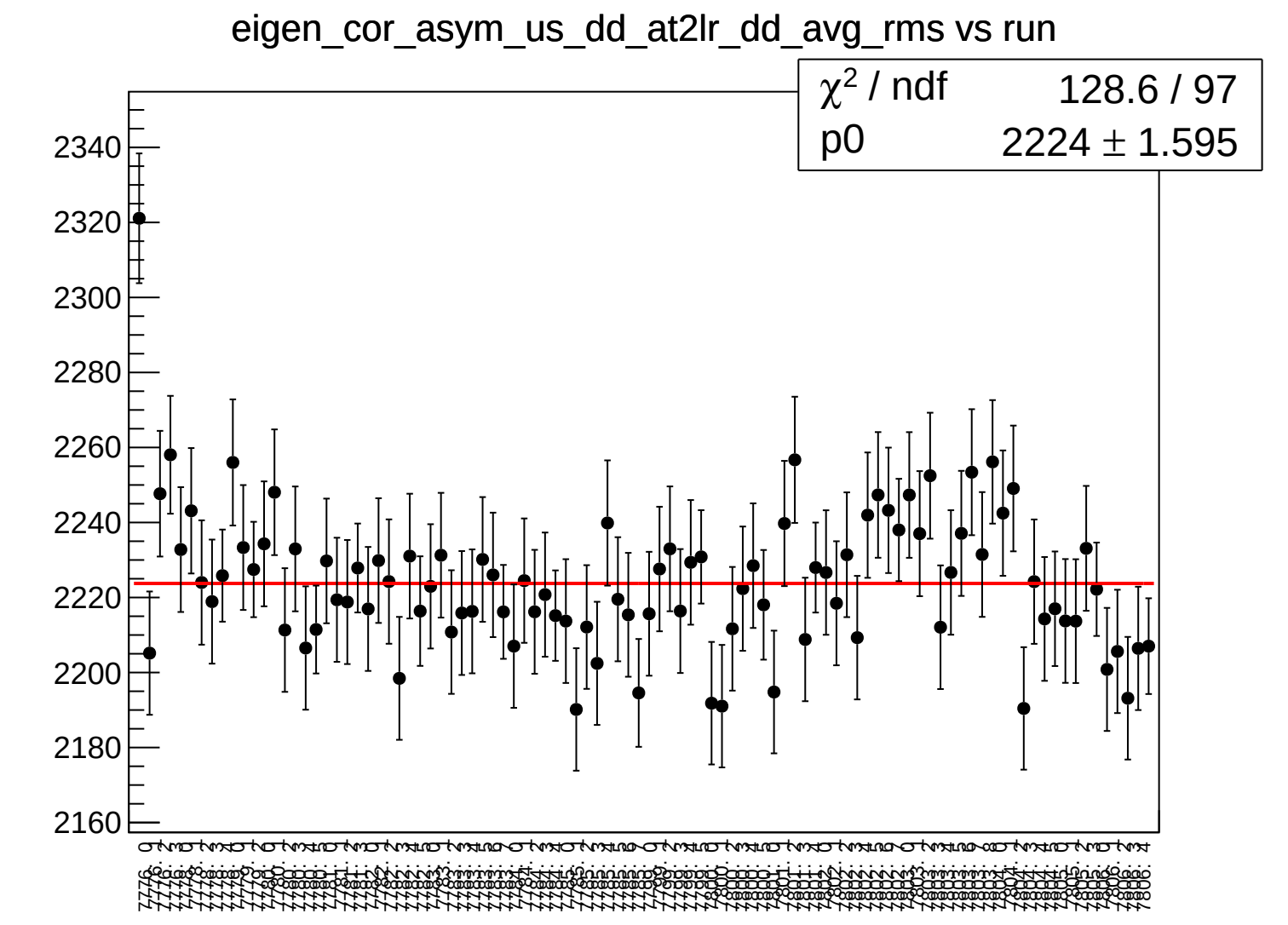

pull1D
Entries 98
Mean −0.0202
Std Dev 0.995

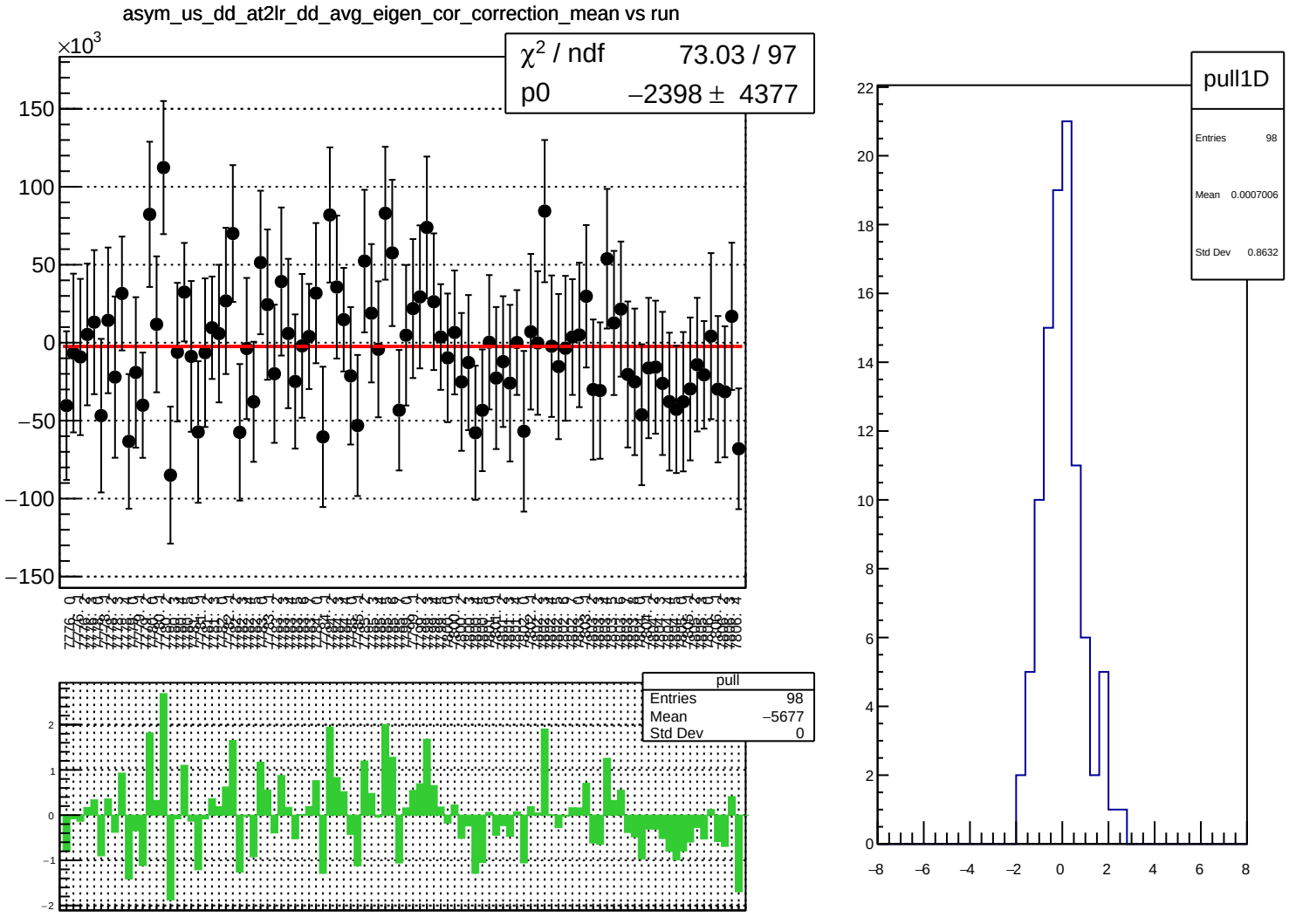

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 128.6 / 97
p0 2224 ± 1.595
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

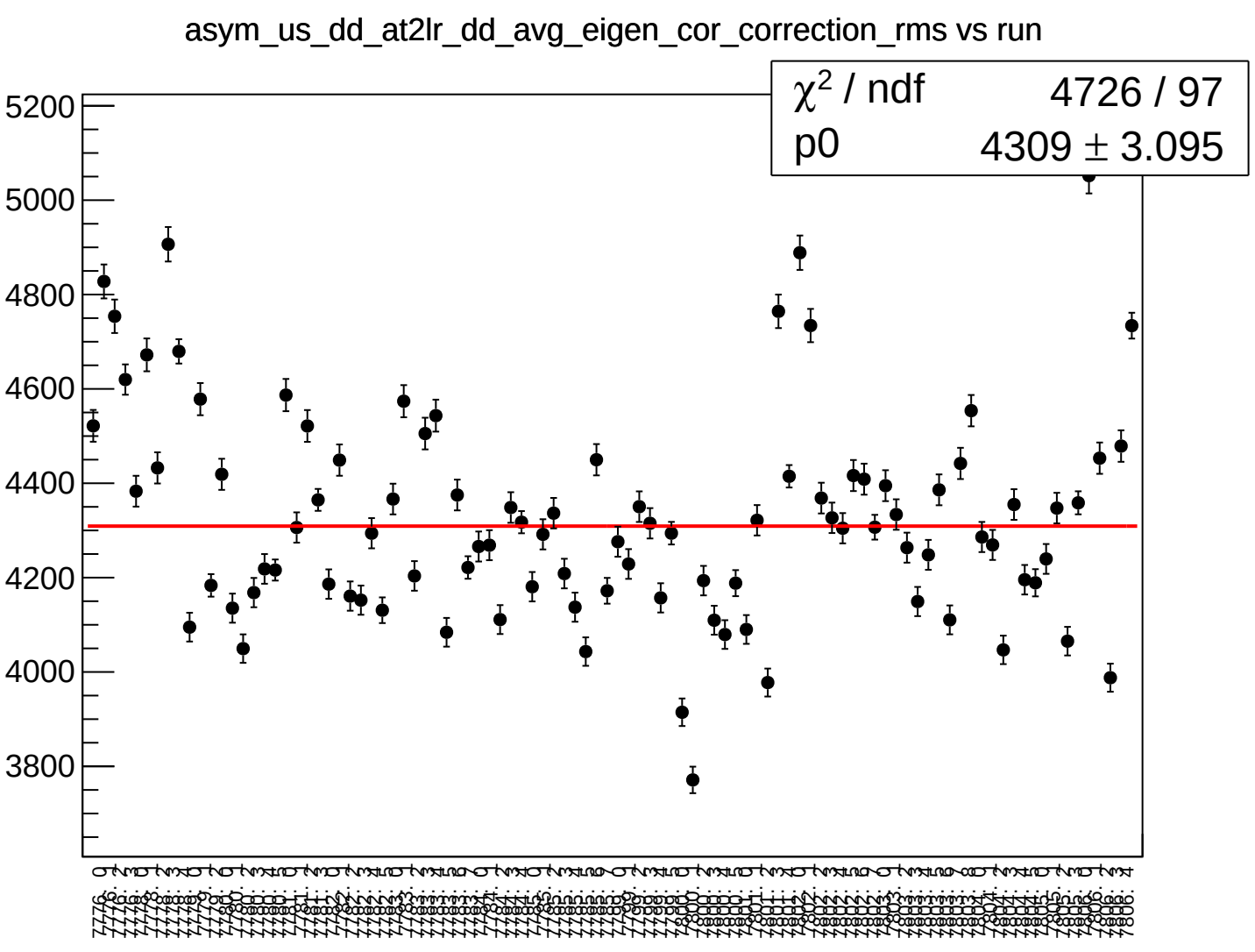

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 73.03 / 97
p0 −2398 ± 4377
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −5677
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.0007006
Std Dev 0.8632
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

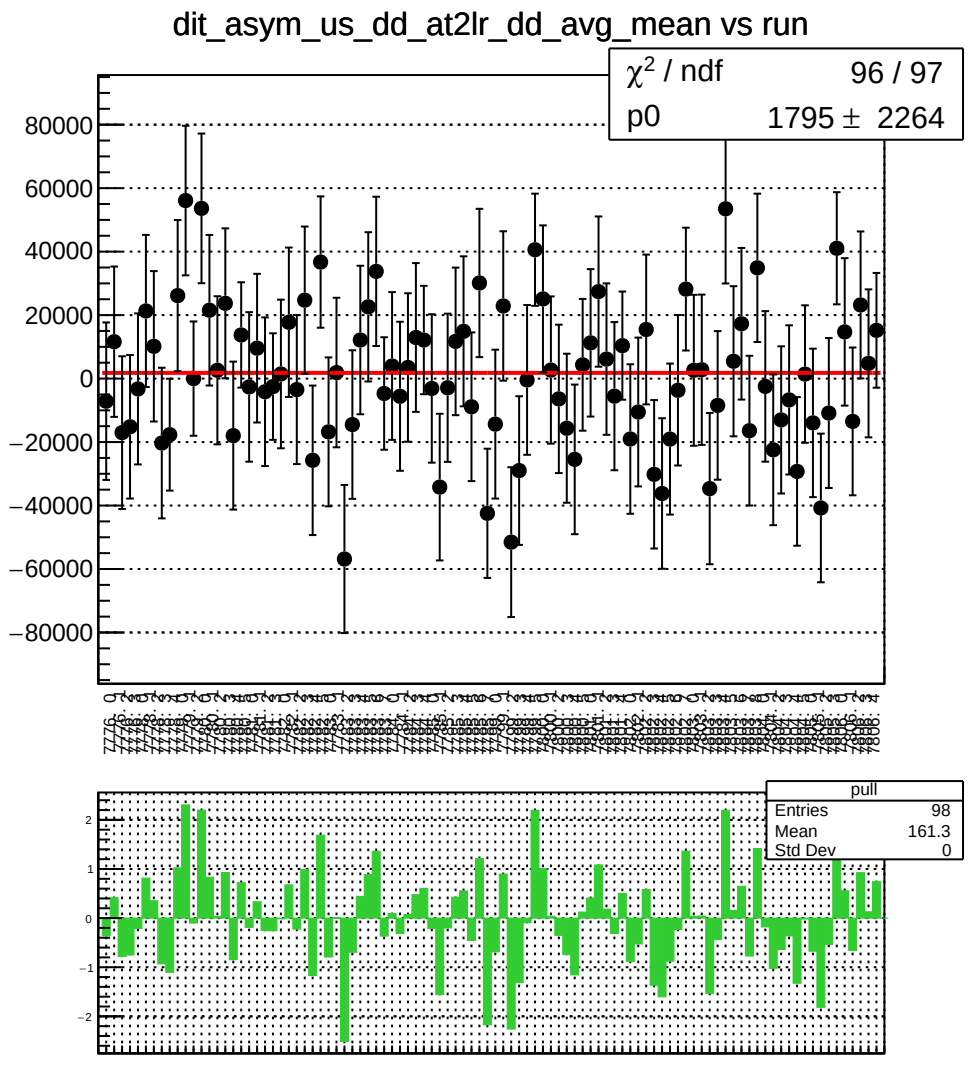

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 4726 / 97
p0 4309 ± 3.095
5200
5000
4800
4600
4400
4200
4000
3800

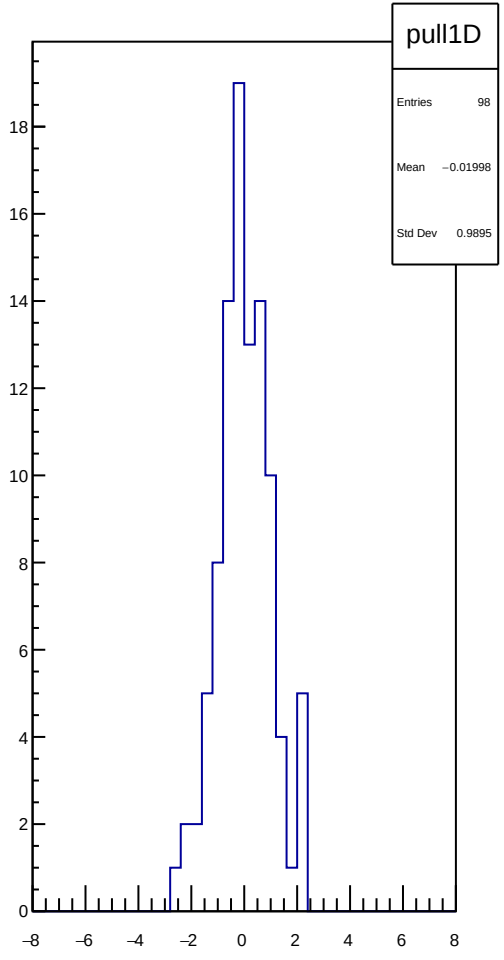

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 97.05 / 97
p0 1669 ± 2256
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 136.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.0202
Std Dev 0.995
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

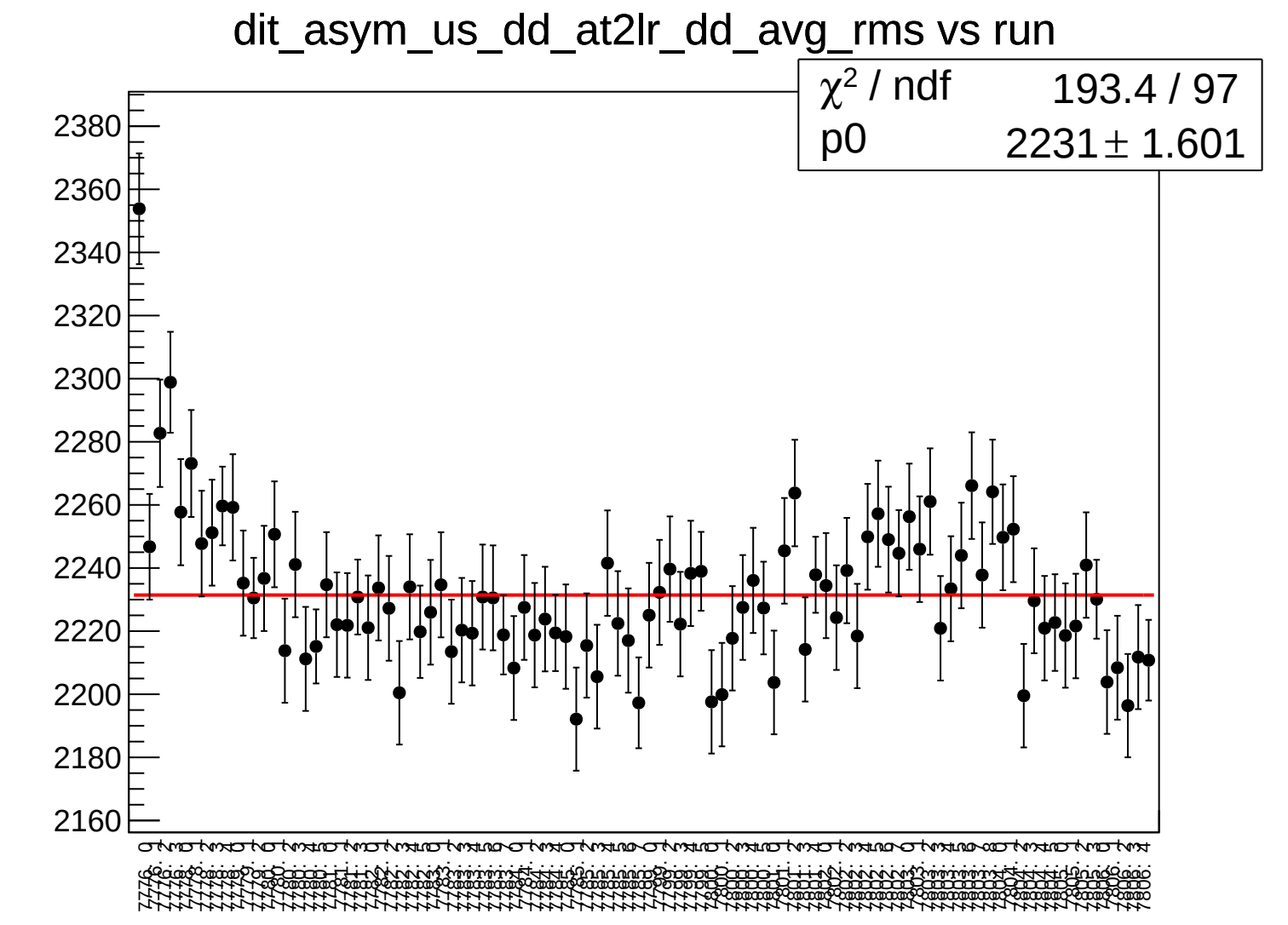

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 128.6 / 97
p0 2224 ± 1.595
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

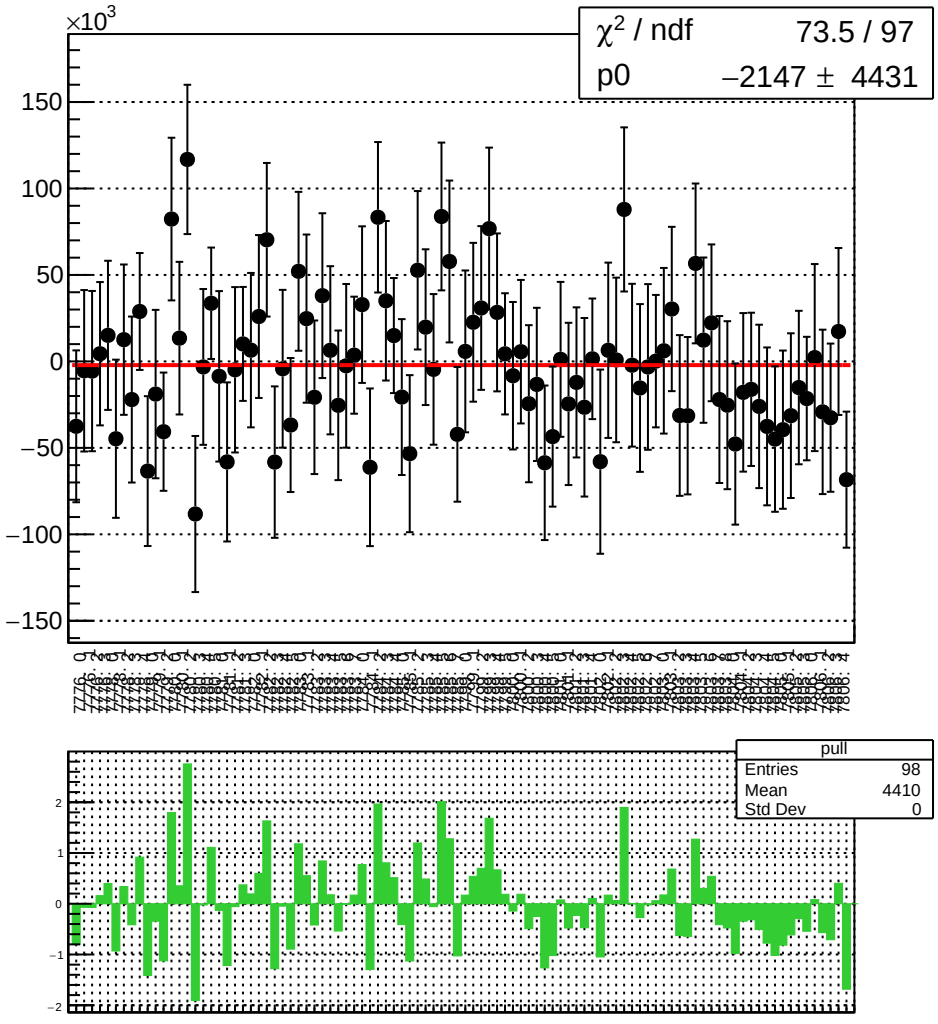

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 73.03 / 97
p0 −2398 ± 4377
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −5677
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.0007006
Std Dev 0.8632
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

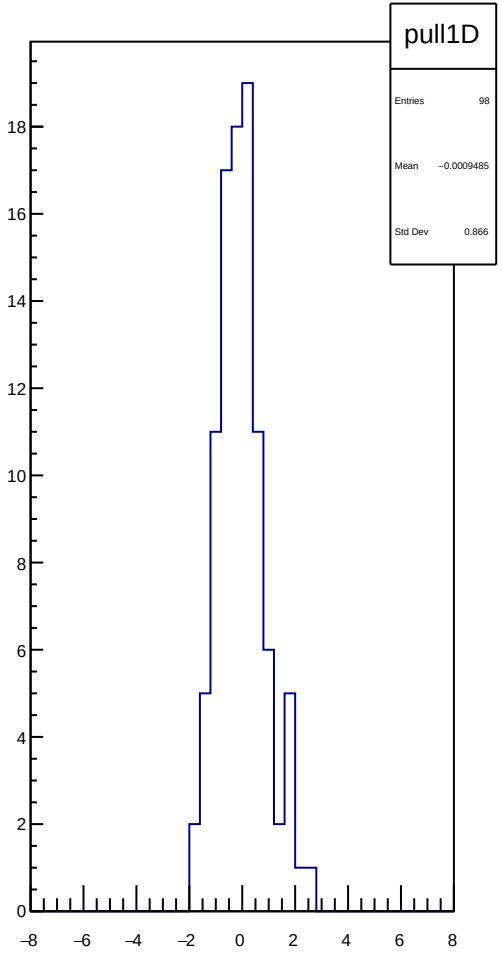

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4726 / 97
p0 4309 ± 3.095
5200
5000
4800
4600
4400
4200
4000
3800

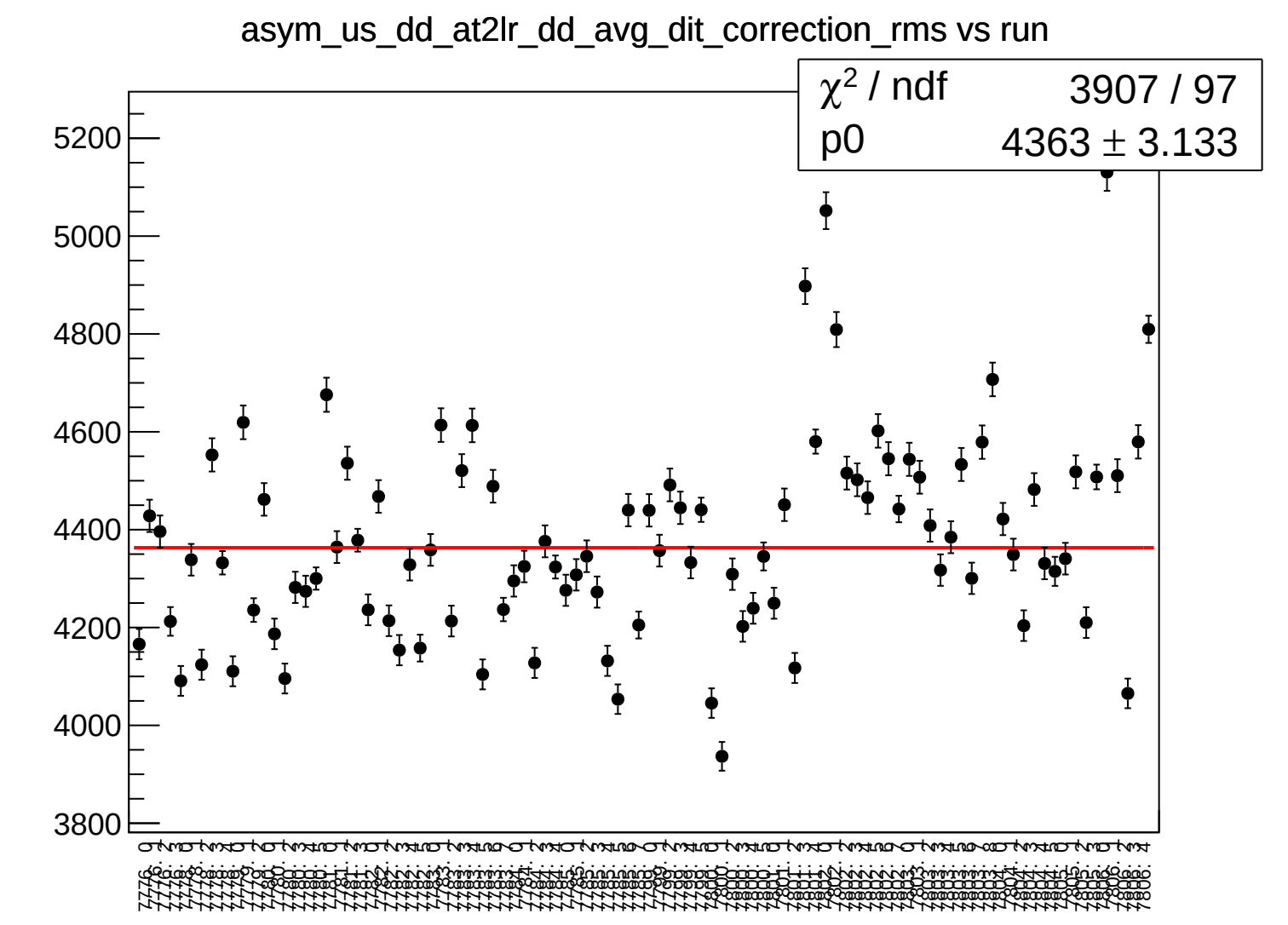

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 96 / 97
p0 1795 ± 2264
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 161.3
Std Dev 0
2
1
0
−1
−2

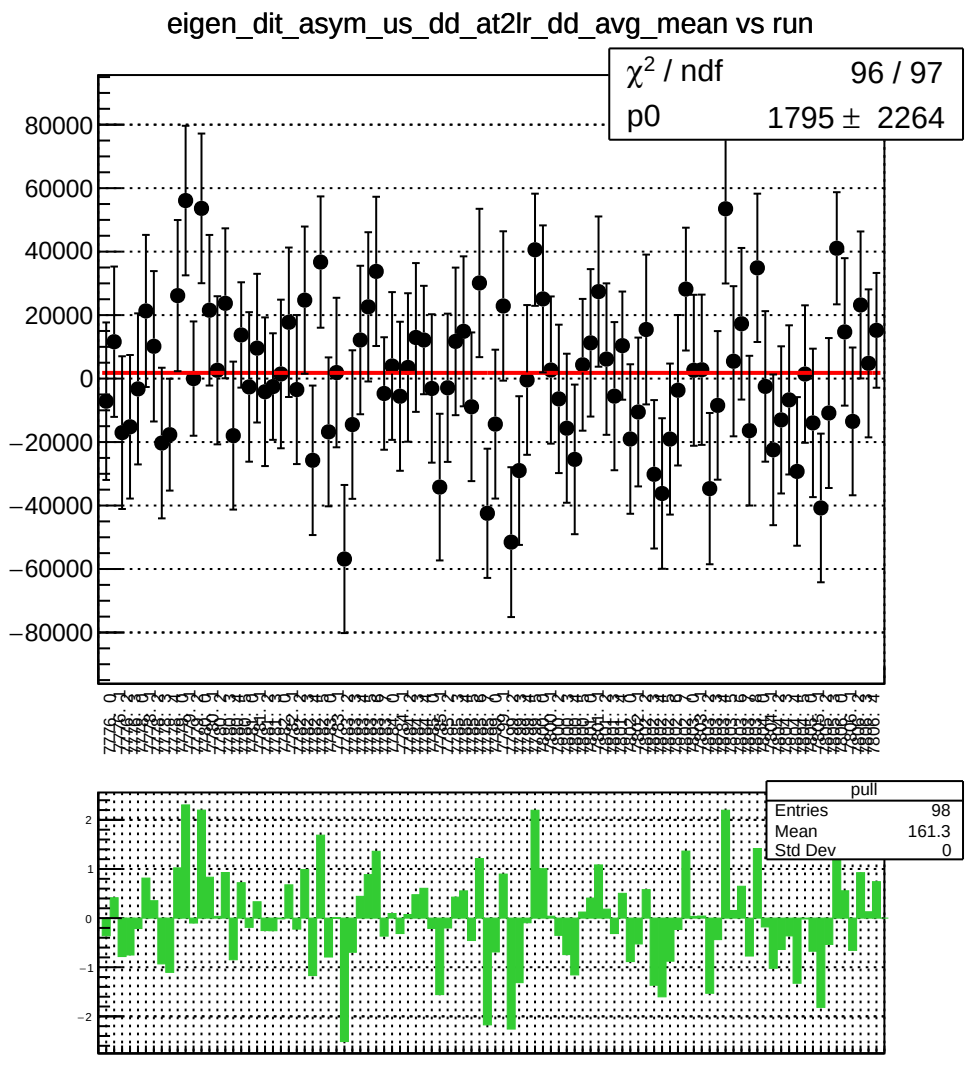

pull1D
Entries 98
Mean −0.01998
Std Dev 0.9895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

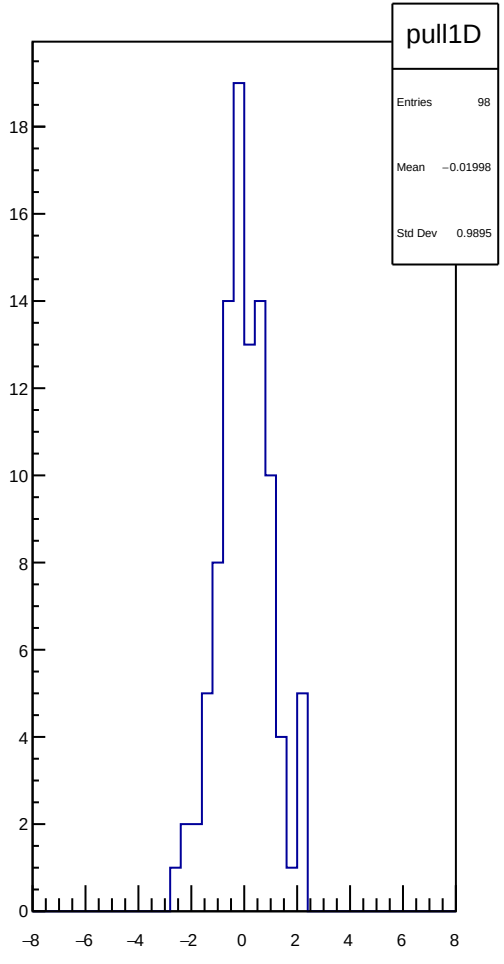

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 193.4 / 97
p0 2231 ± 1.601
2380
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

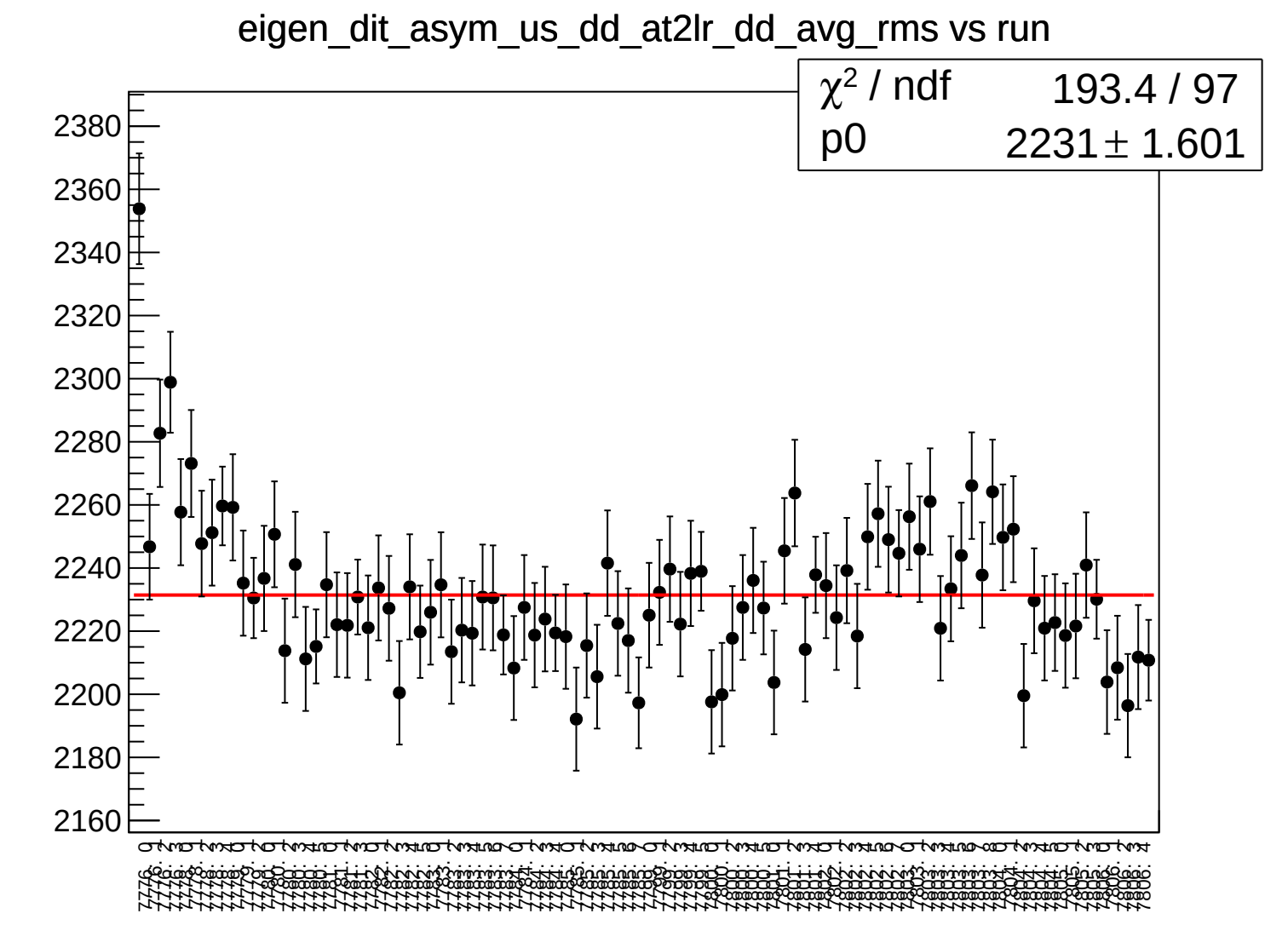

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.5 / 97
p0 −2147 ± 4431
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 4410
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 98
Mean −0.0009485
Std Dev 0.866
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

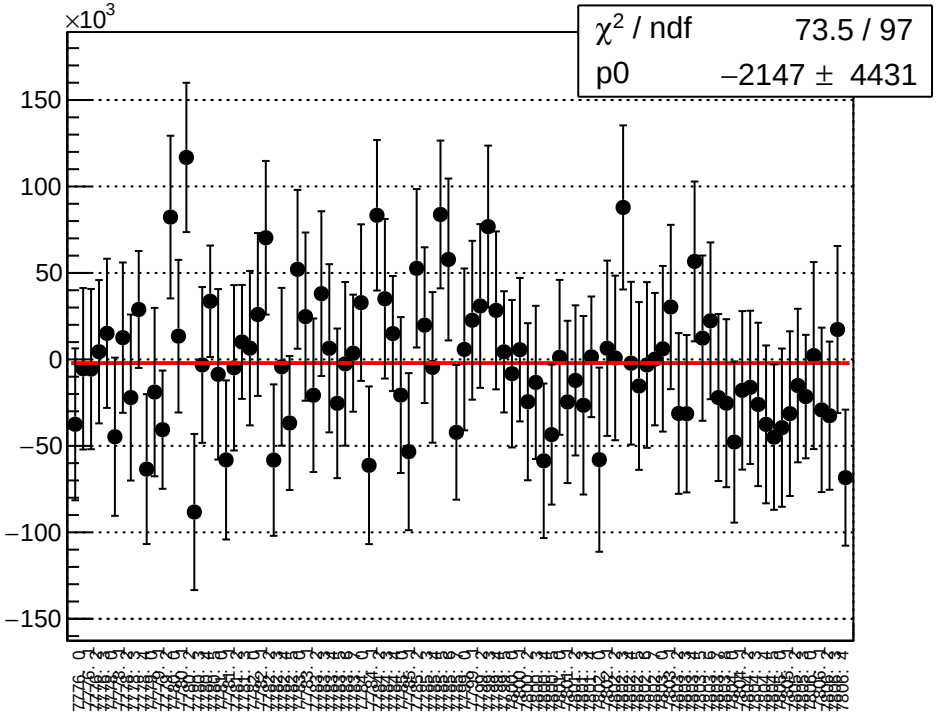

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3907 / 97
p0 4363 ± 3.133
5200
5000
4800
4600
4400
4200
4000
3800

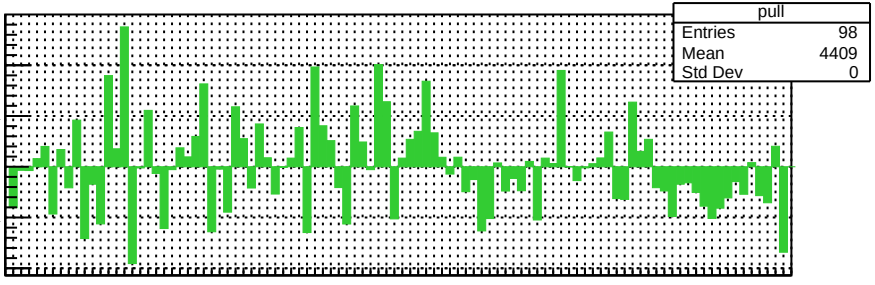

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 96 / 97
p0 1795 ± 2264
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 161.3
Std Dev 0
2
1
0
−1
−2

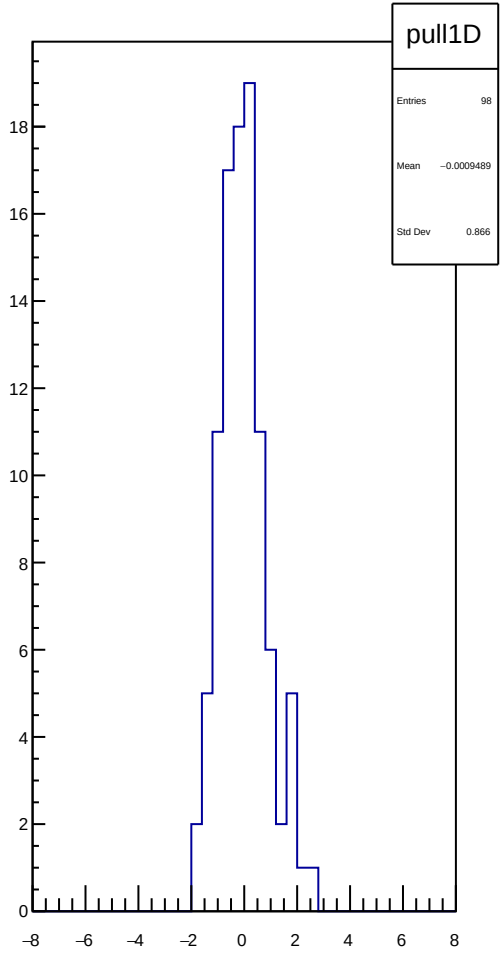

pull1D
Entries 98
Mean −0.01998
Std Dev 0.9895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

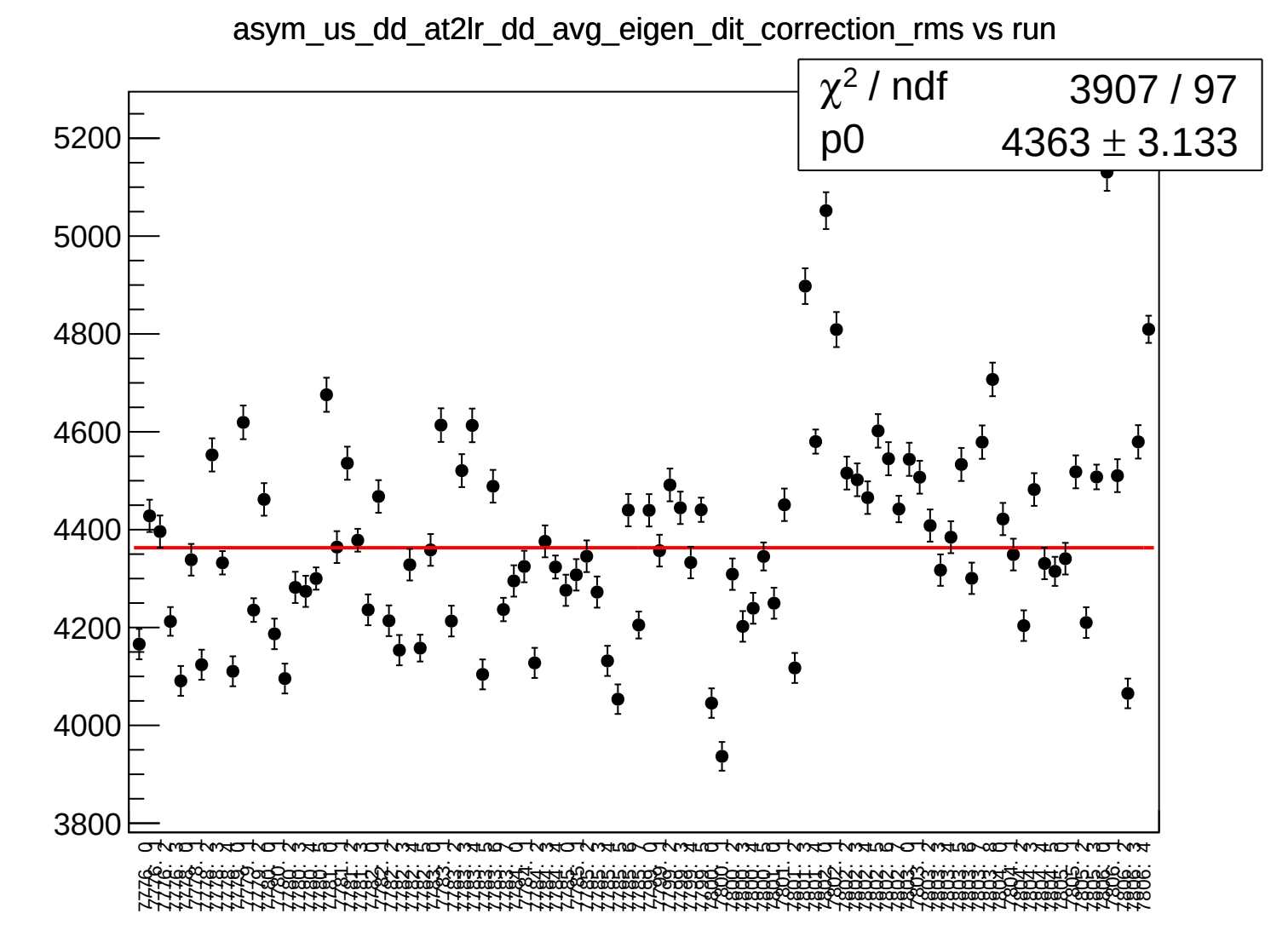

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 193.4 / 97
p0 2231 ± 1.601
2380
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

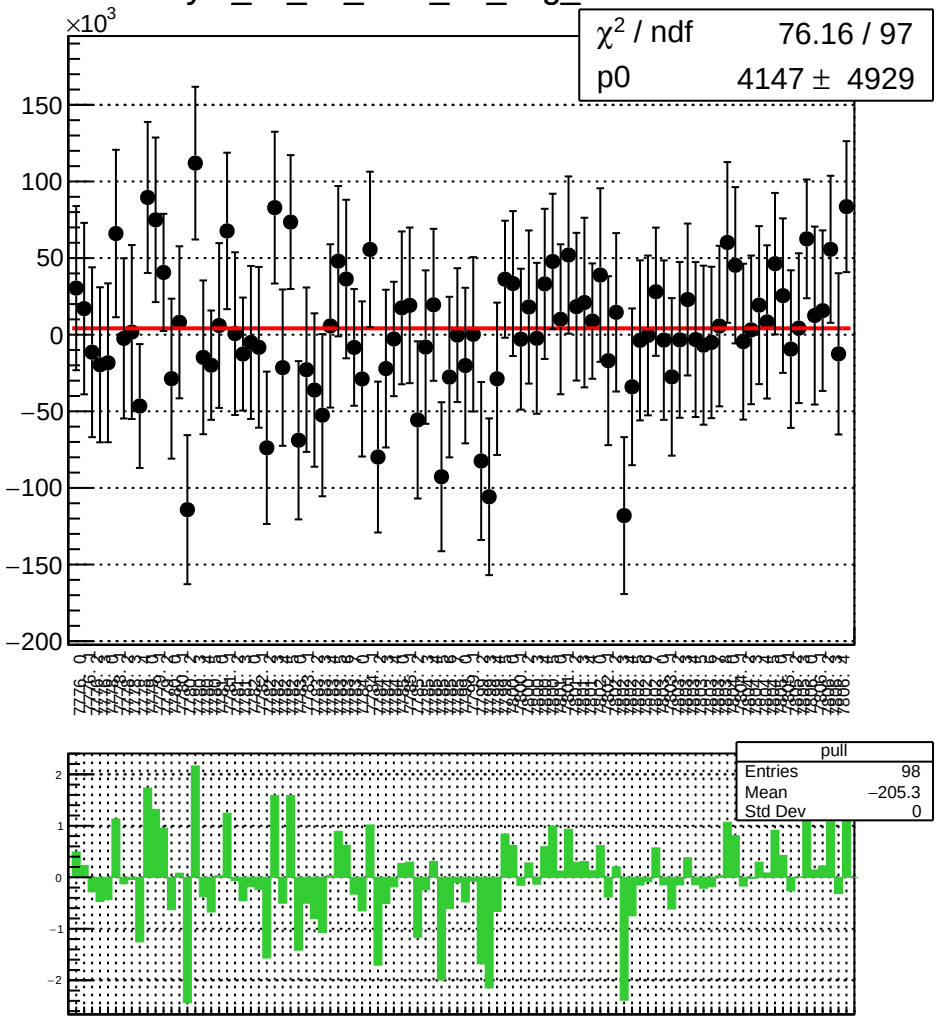
asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run

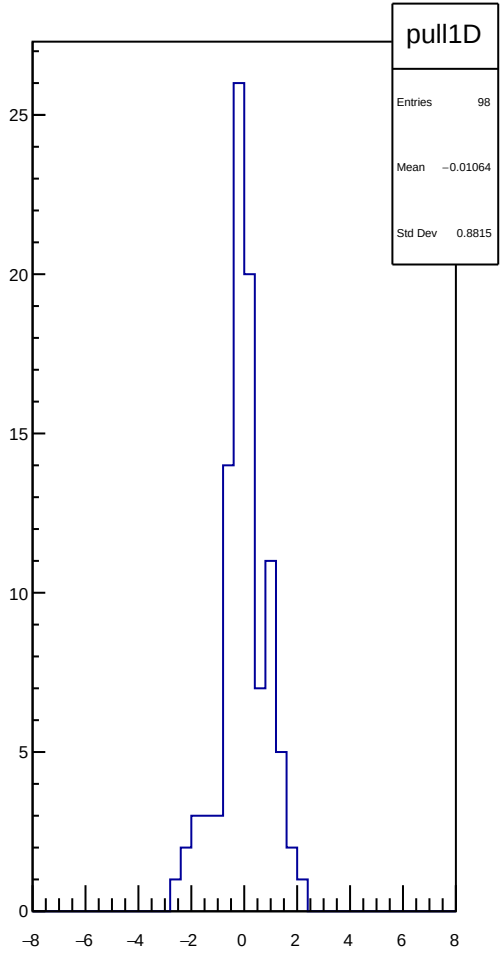


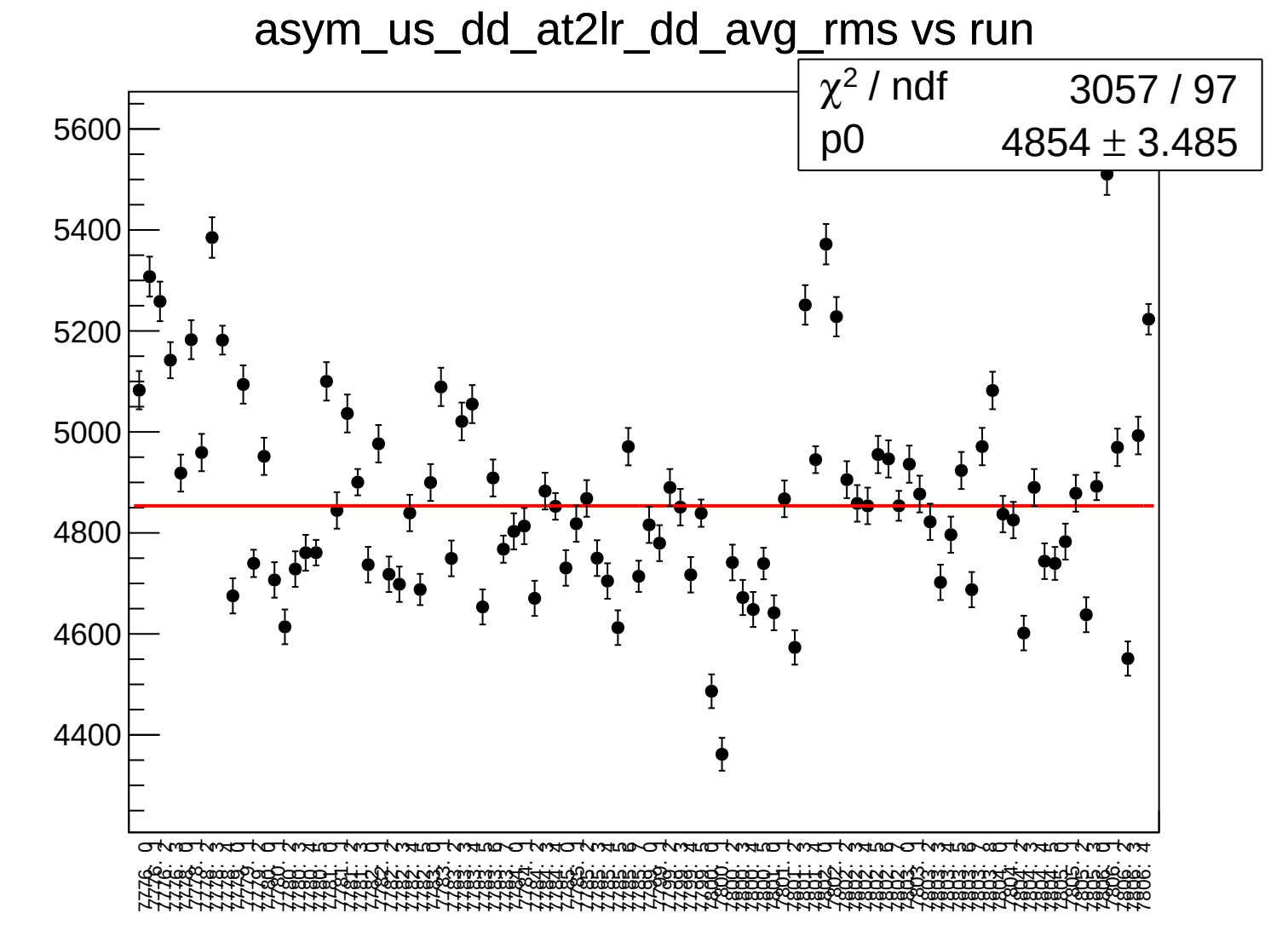


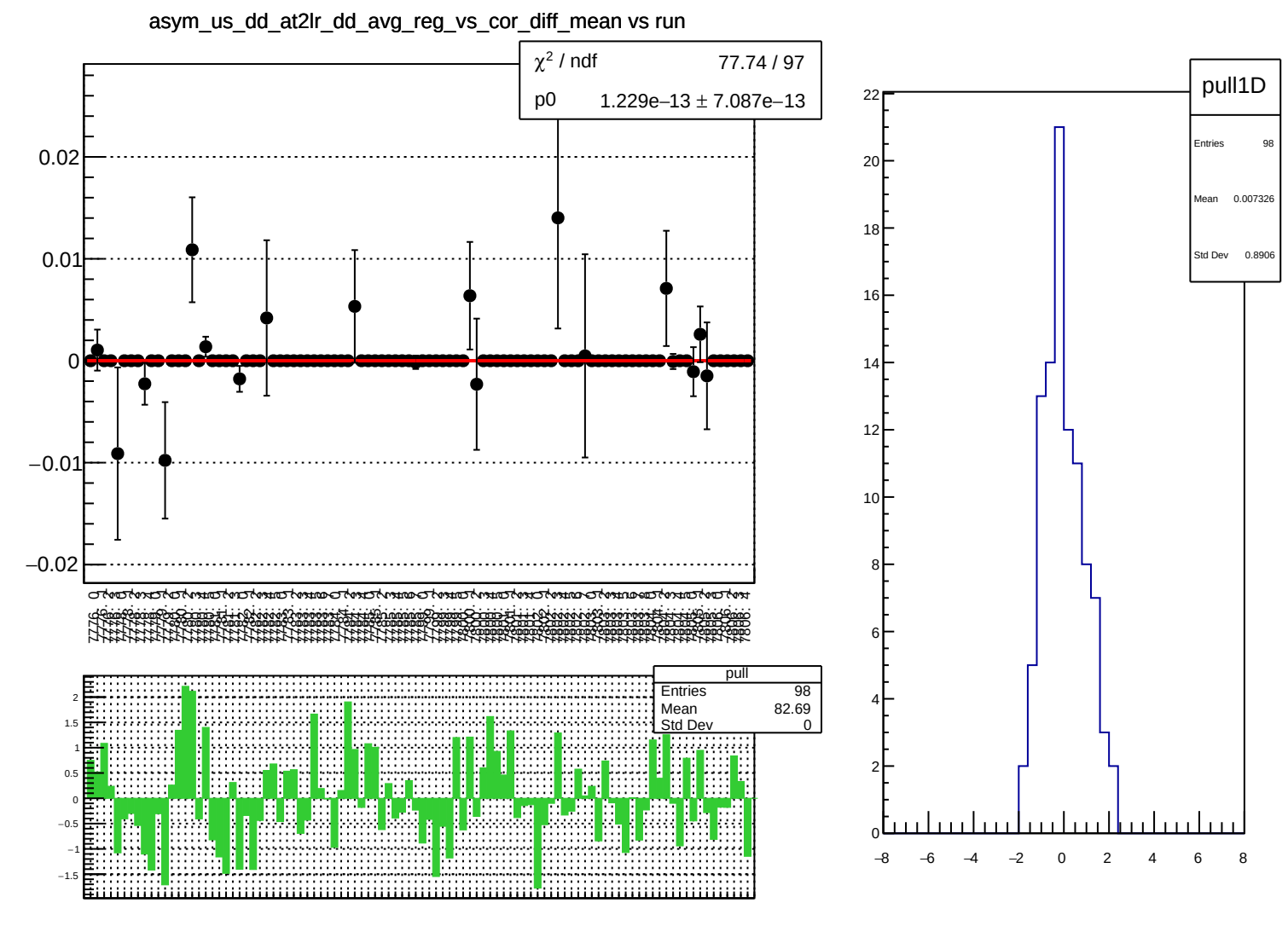


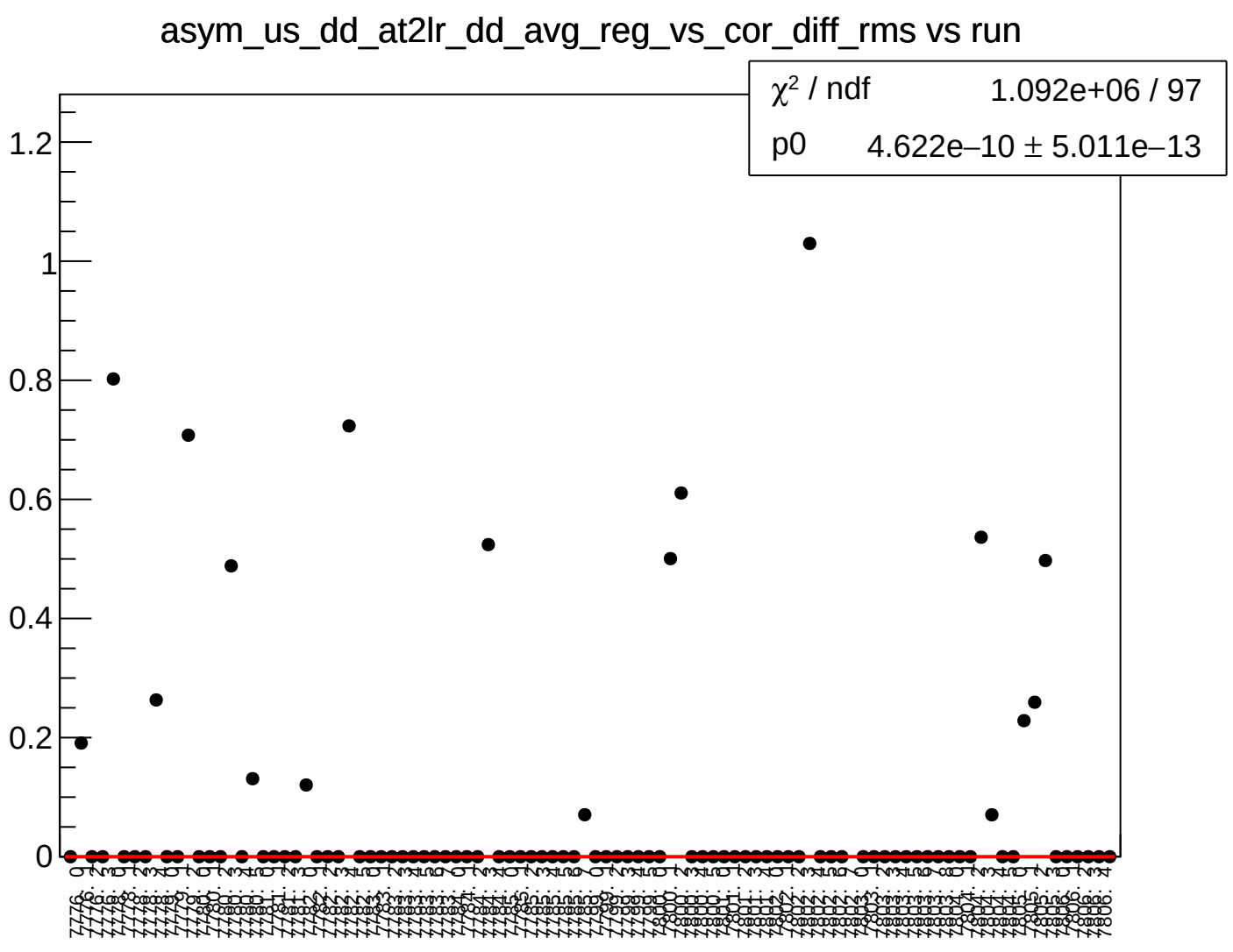

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3907 / 97
p0 4363 ± 3.133
5200
5000
4800
4600
4400
4200
4000
3800

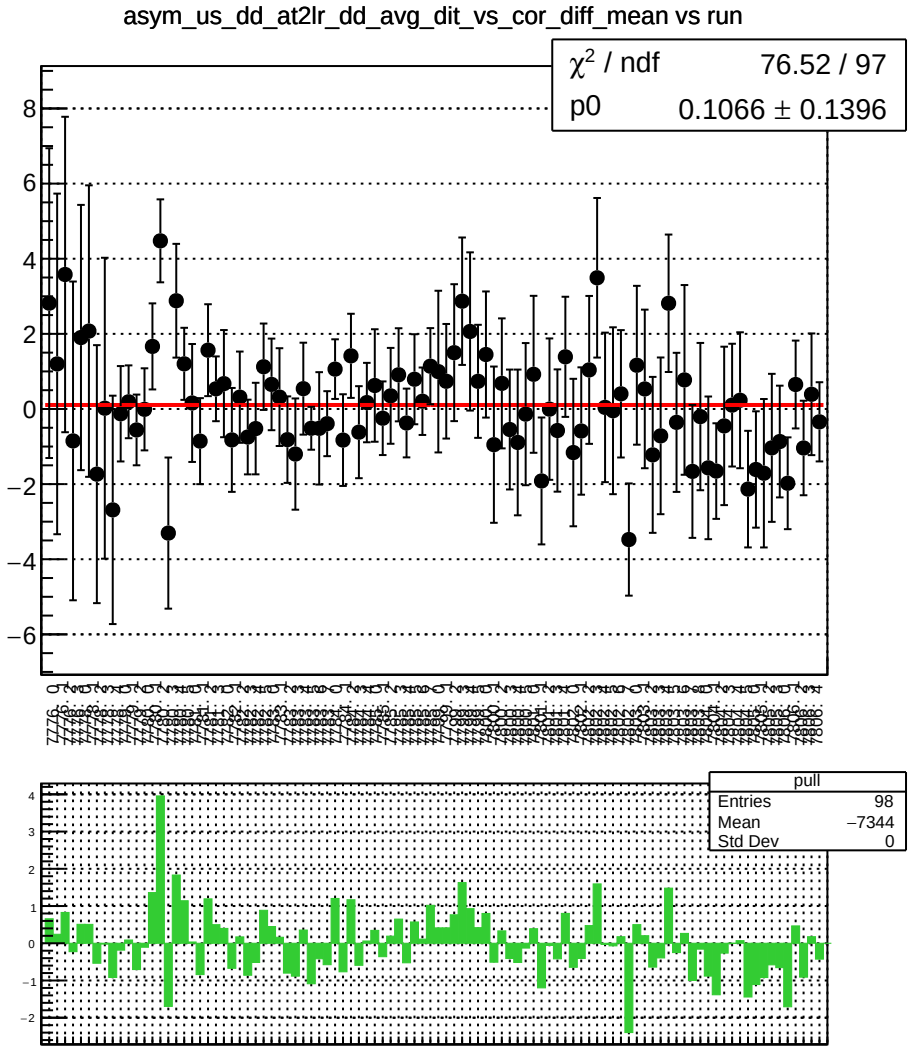

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 76.16 / 97
p0 4147 ± 4929
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean −205.3
Std Dev 0
2
1
0
−1
−2

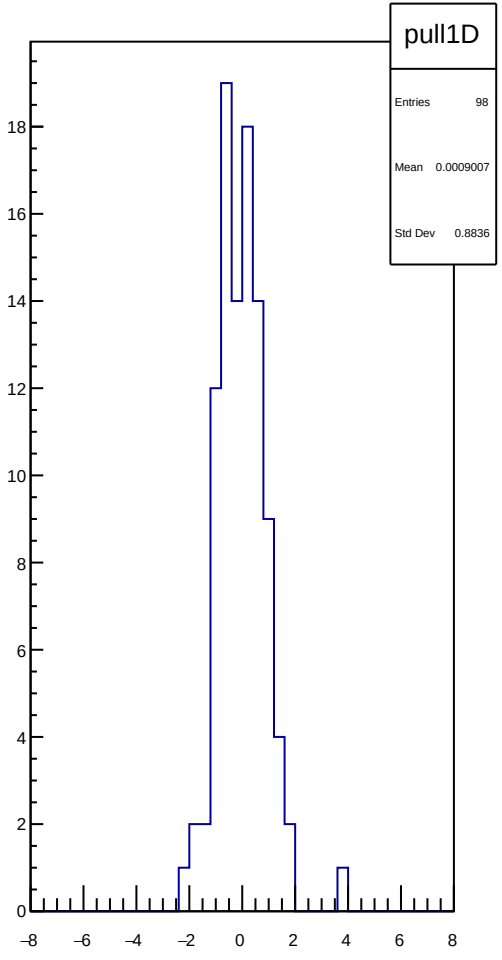

pull1D
Entries 98
Mean −0.01064
Std Dev 0.8815
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

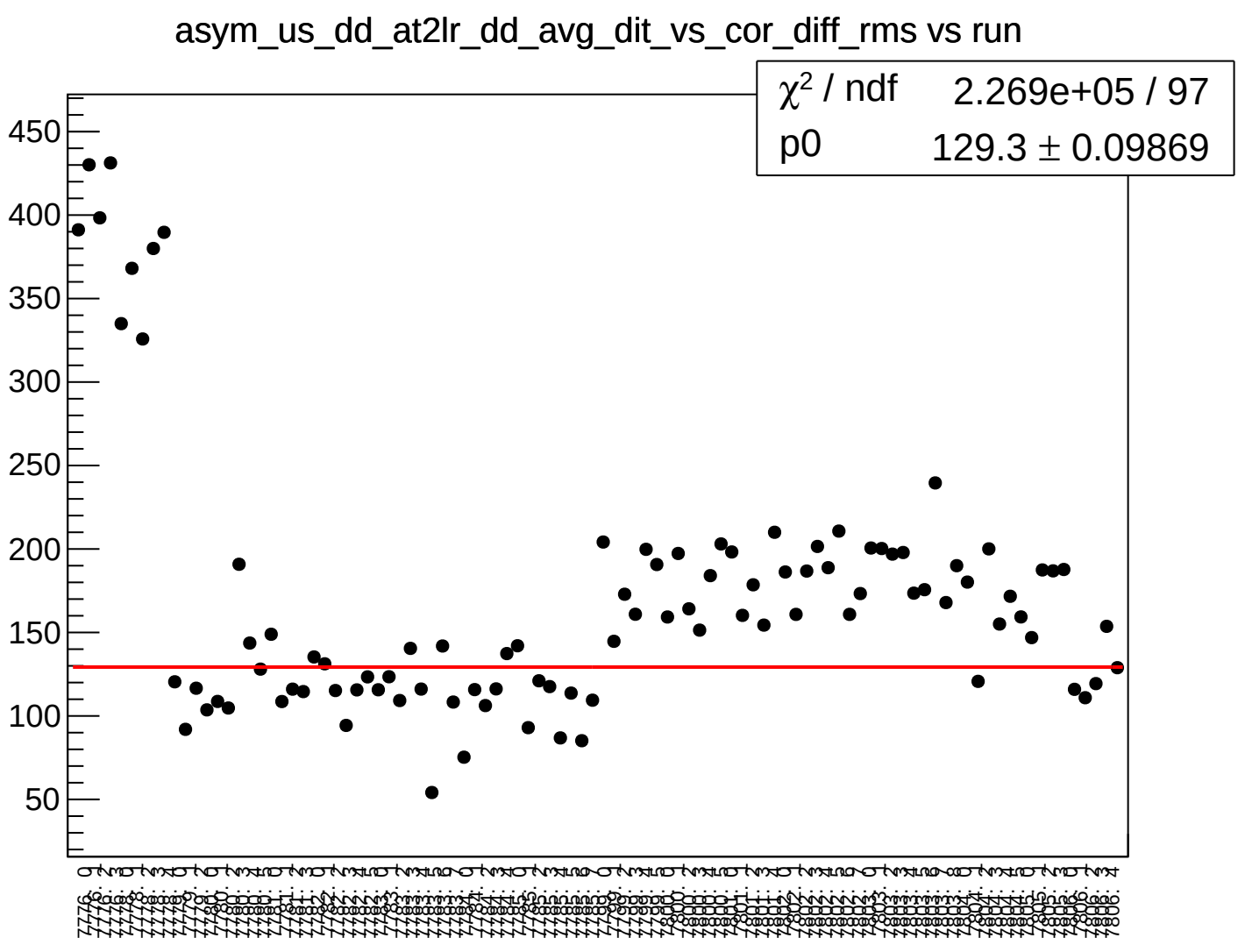

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 3057 / 97
p0 4854 ± 3.485
5600
5400
5200
5000
4800
4600
4400

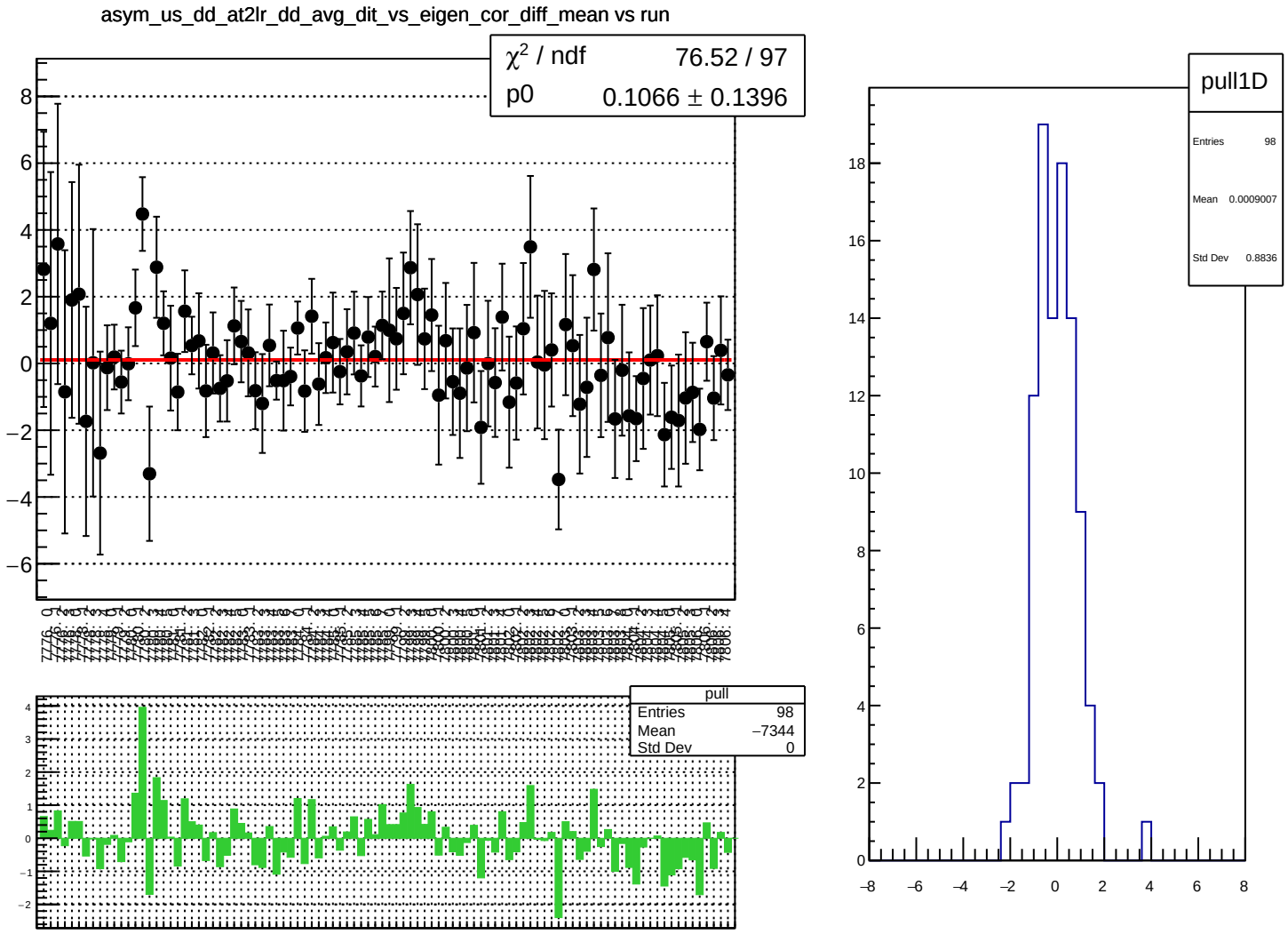

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.74 / 97
p0 1.229e−13 ± 7.087e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 98
Mean 82.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.007326
Std Dev 0.8906
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

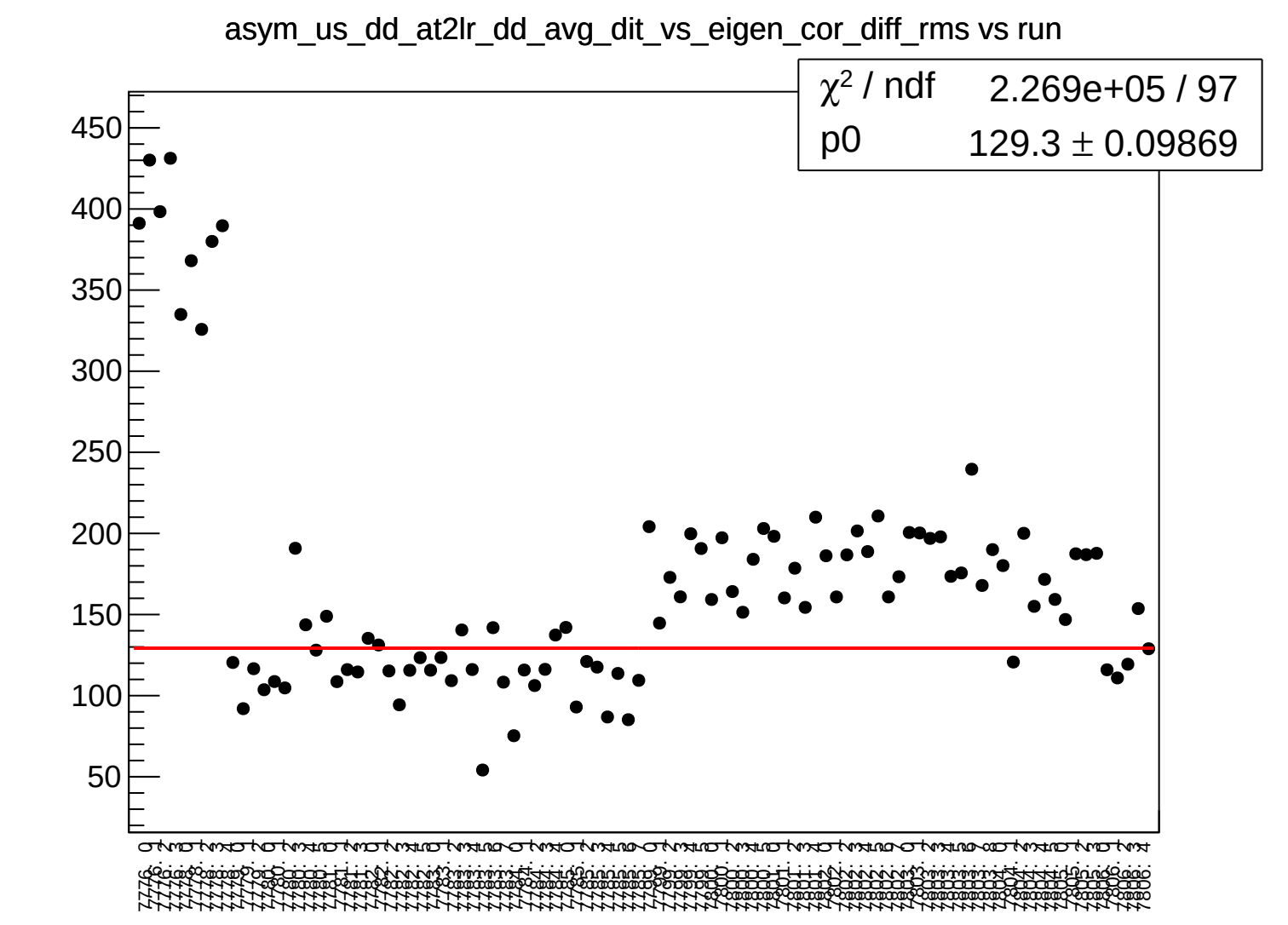

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.092e+06 / 97
p0 4.622e−10 ± 5.011e−13
1.2
1
0.8
0.6
0.4
0.2
0

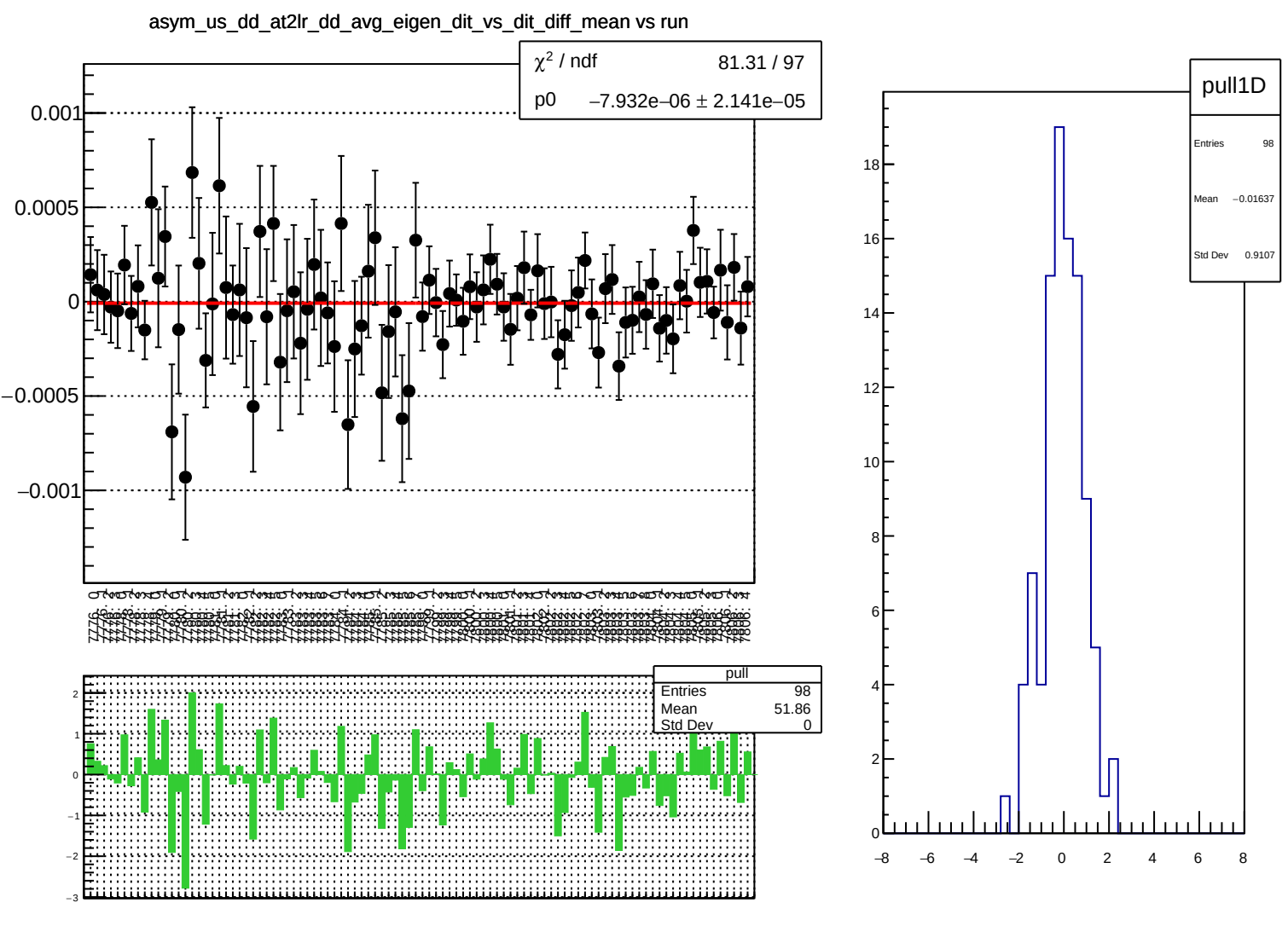

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.52 / 97
p0 0.1066 ± 0.1396
pull
Entries 98
Mean −7344
Std Dev 0

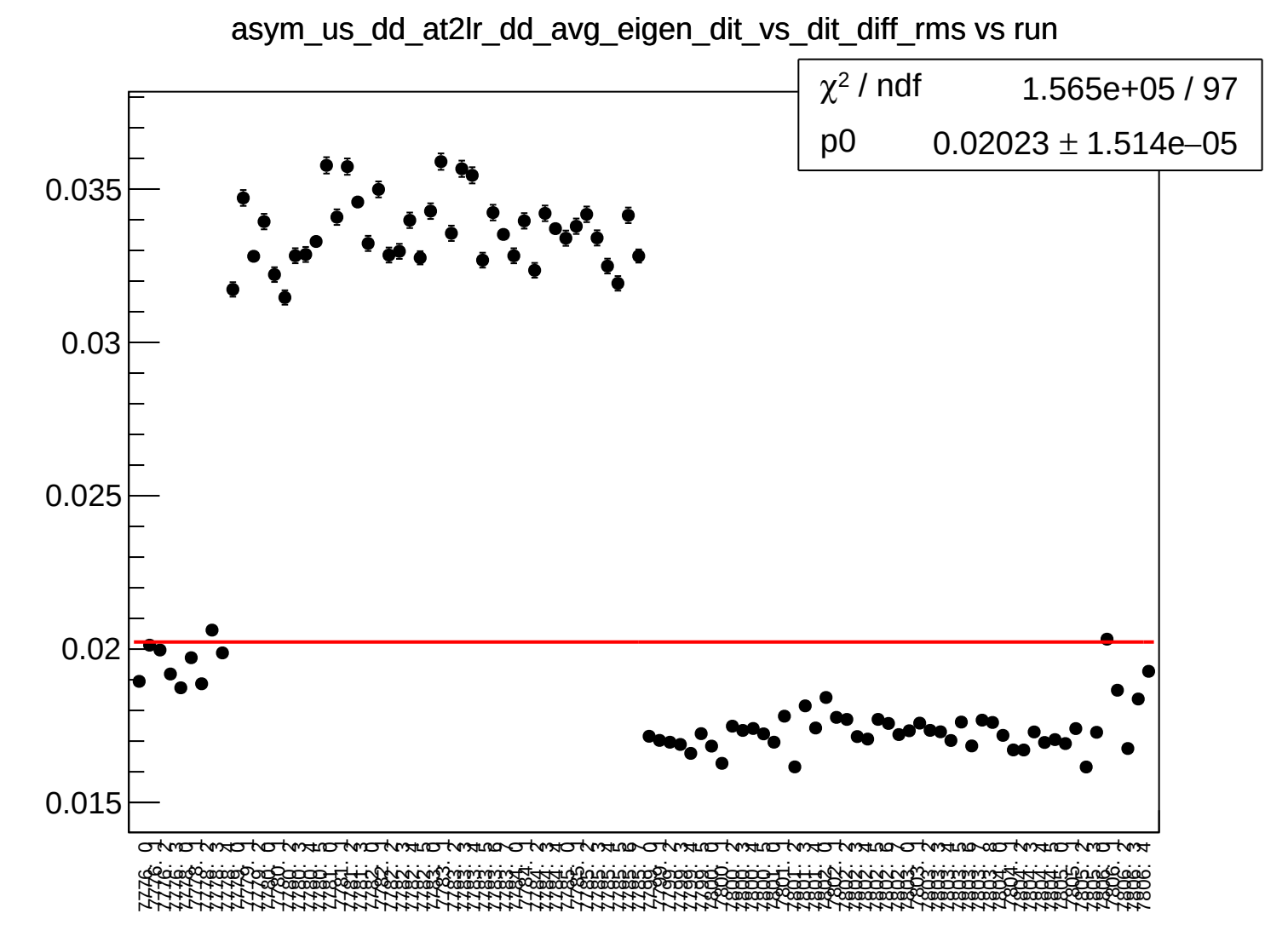

pull1D
Entries 98
Mean 0.0009007
Std Dev 0.8836

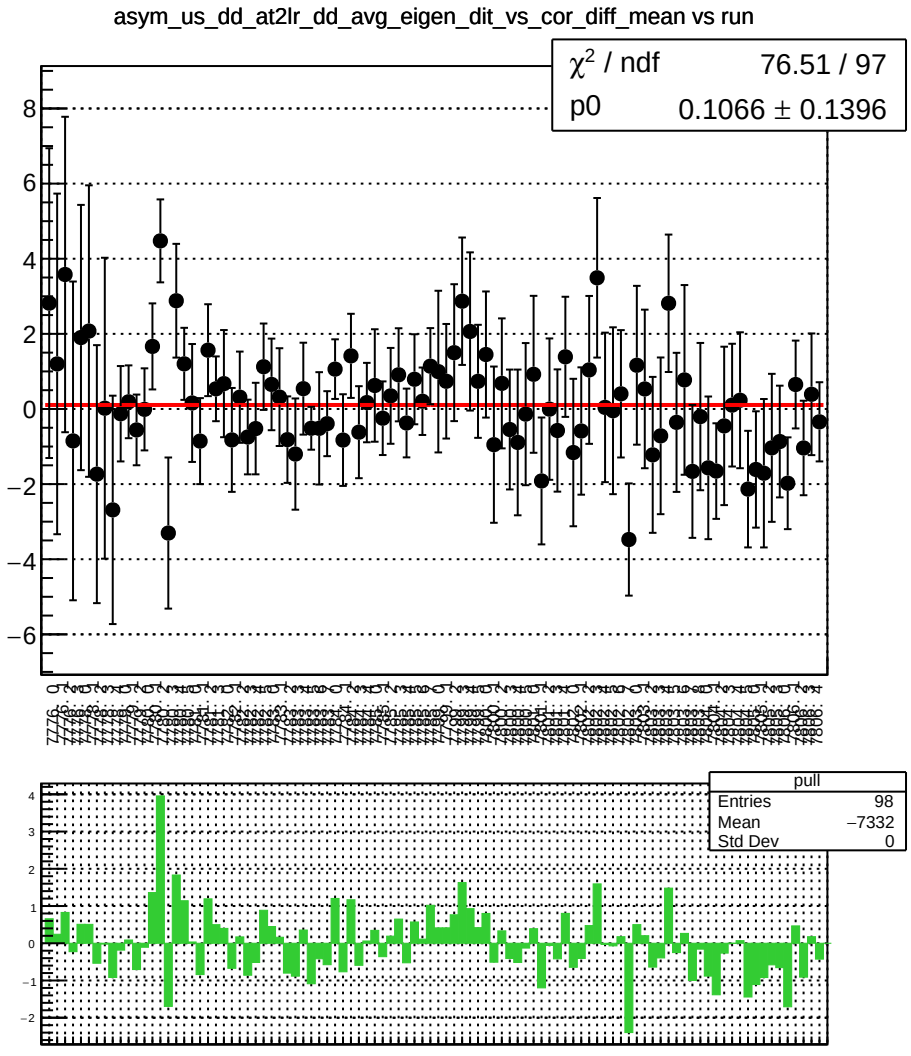

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.269e+05 / 97
p0 129.3 ± 0.09869
450
400
350
300
250
200
150
100
50

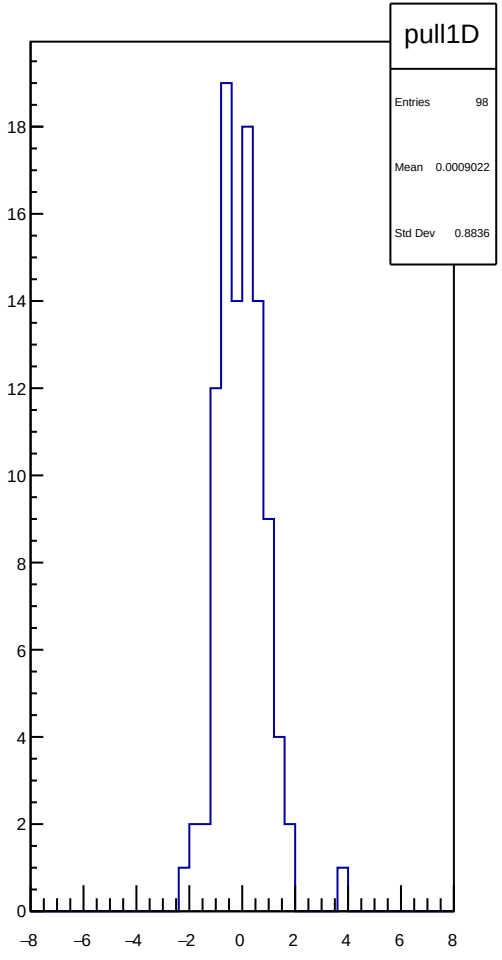

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.52 / 97
p0 0.1066 ± 0.1396
pull
Entries 98
Mean −7344
Std Dev 0
pull1D
Entries 98
Mean 0.0009007
Std Dev 0.8836

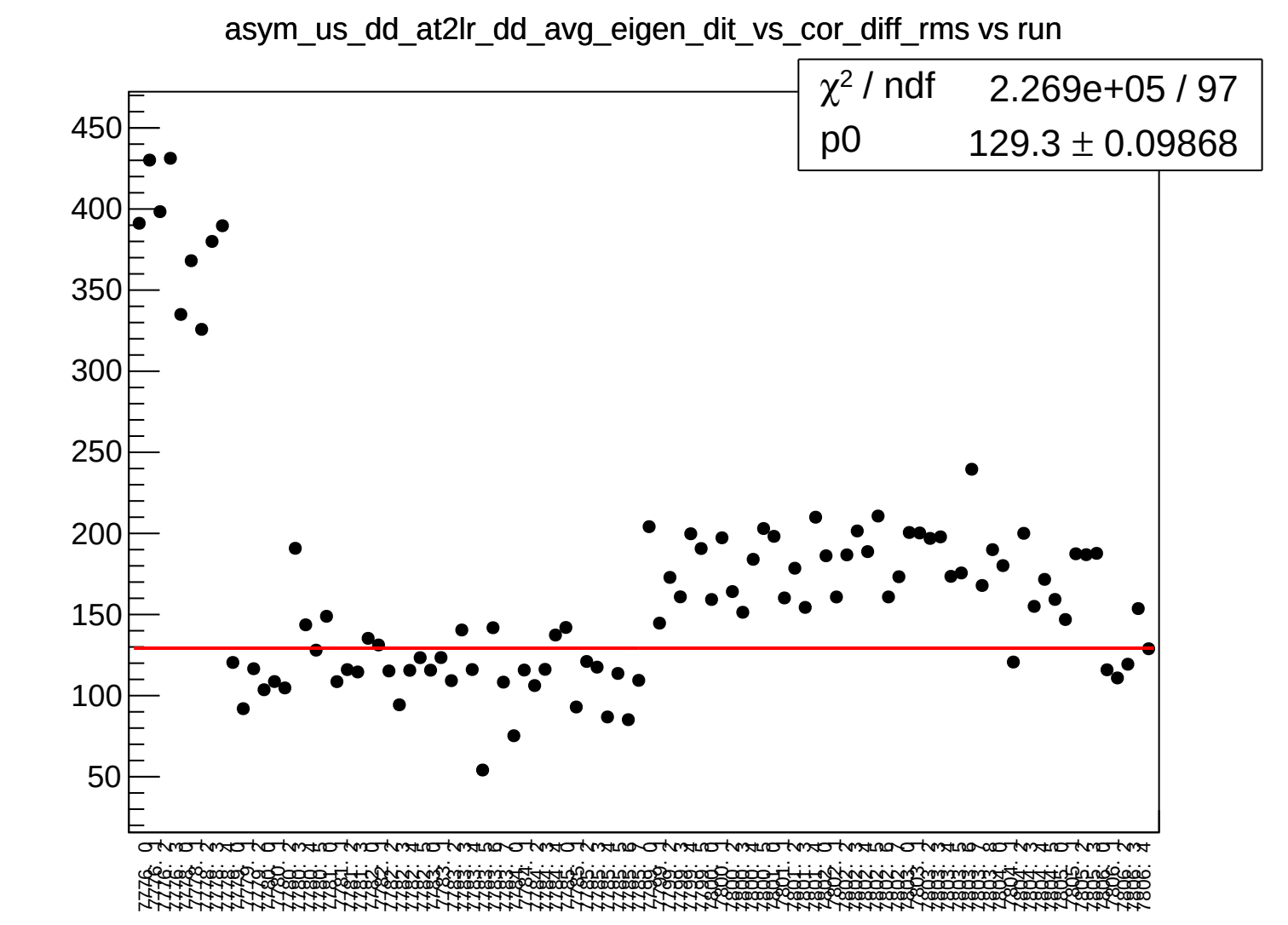

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 97
p0 129.3 ± 0.09869
450
400
350
300
250
200
150
100
50

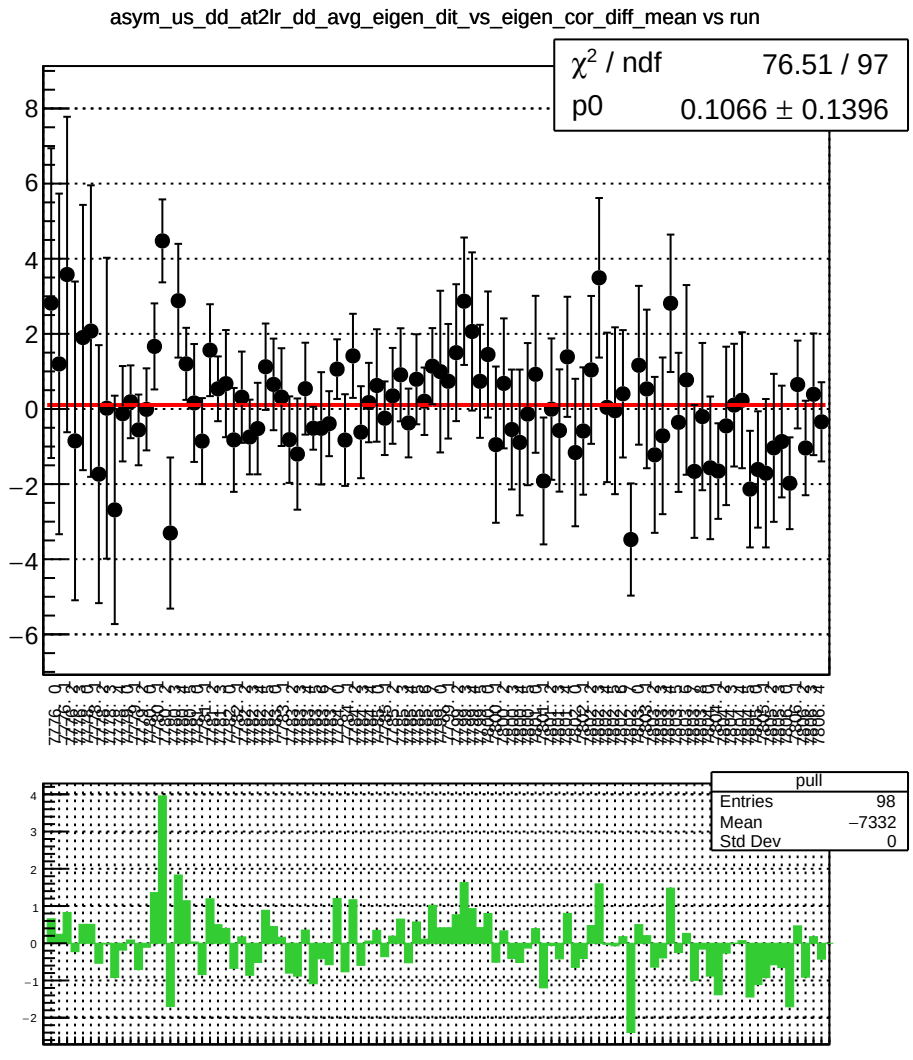

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 81.31 / 97
p0 −7.932e−06 ± 2.141e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 98
Mean 51.86
Std Dev 0
pull1D
Entries 98
Mean −0.01637
Std Dev 0.9107

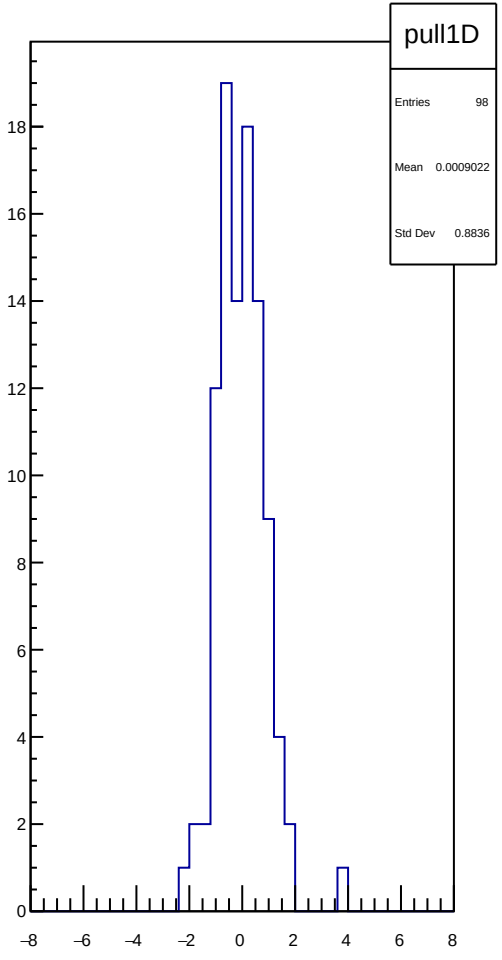

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.565e+05 / 97
p0 0.02023 ± 1.514e−05
0.035
0.03
0.025
0.02
0.015

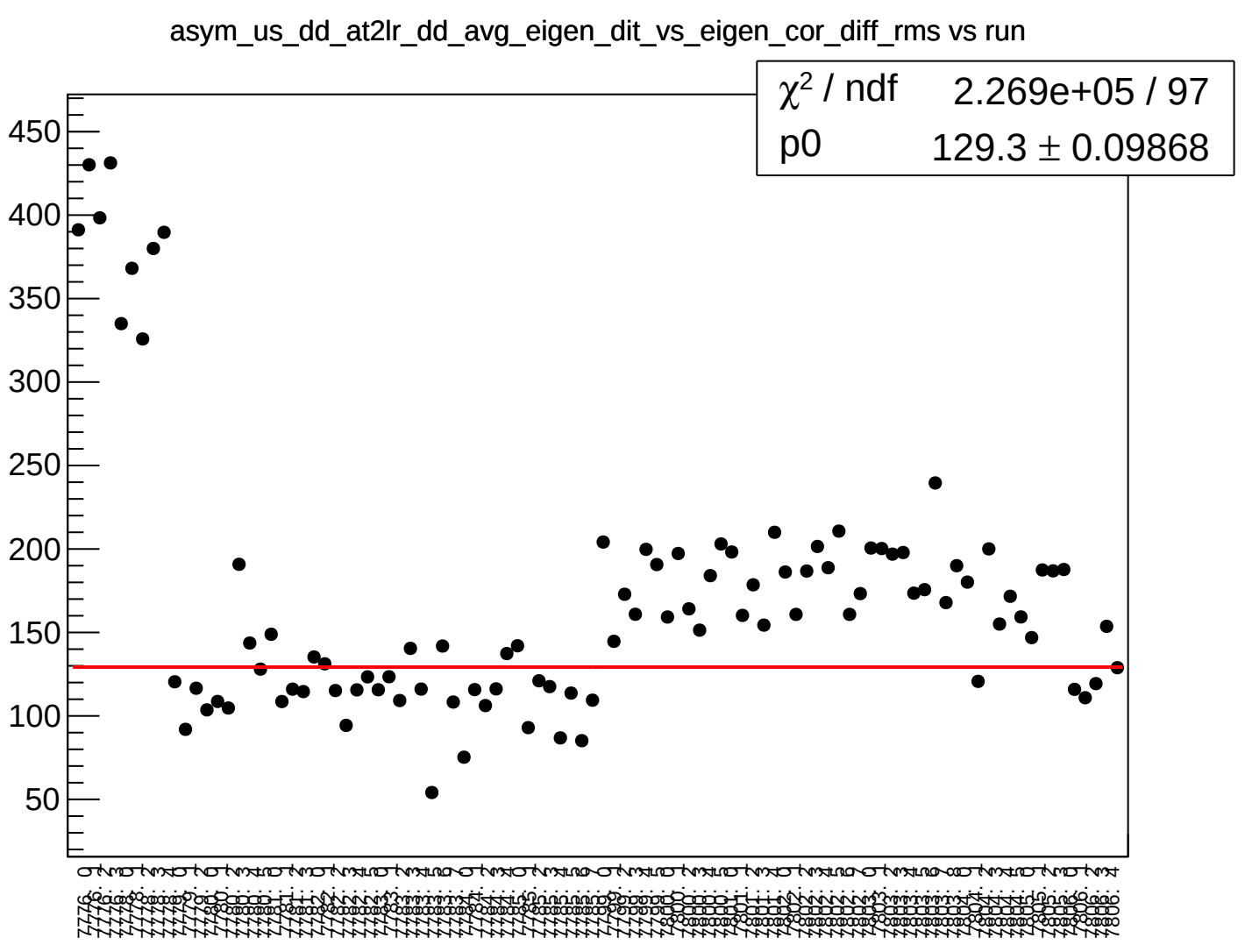

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.51 / 97
p0 0.1066 ± 0.1396
pull
Entries 98
Mean −7332
Std Dev 0

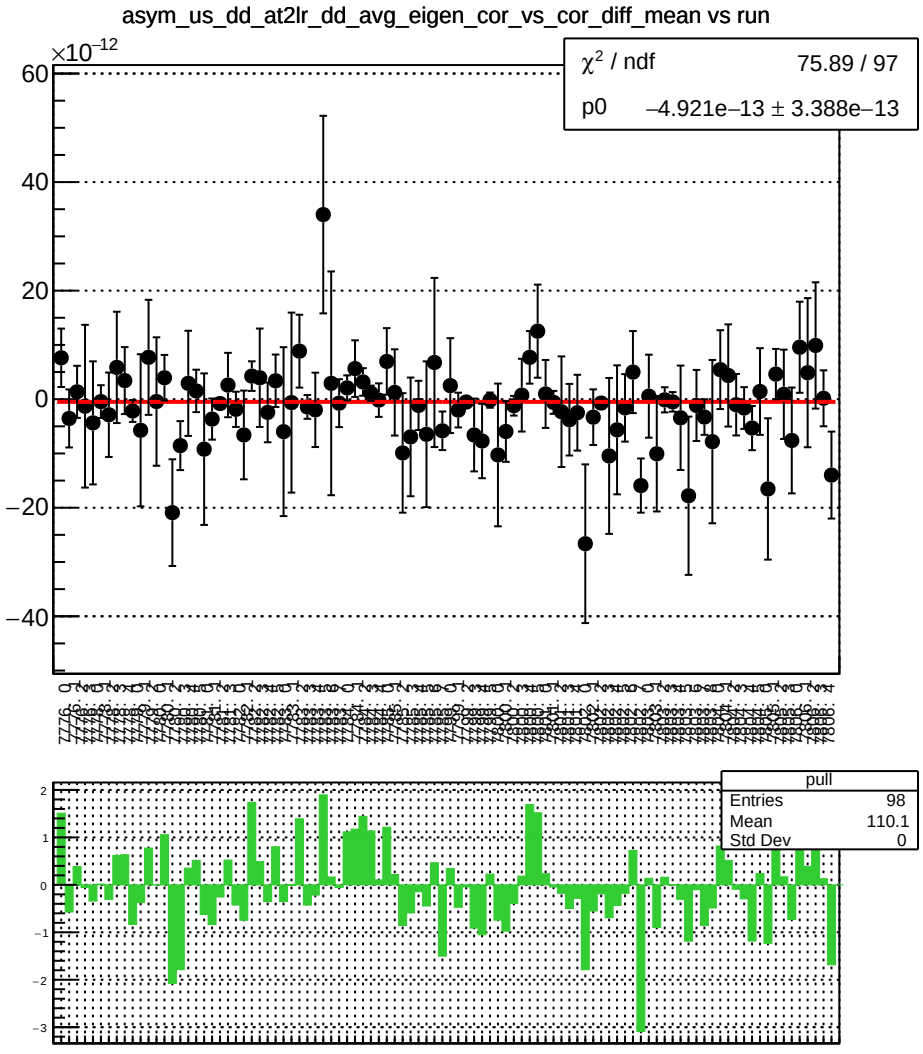

pull1D
Entries 98
Mean 0.0009022
Std Dev 0.8836

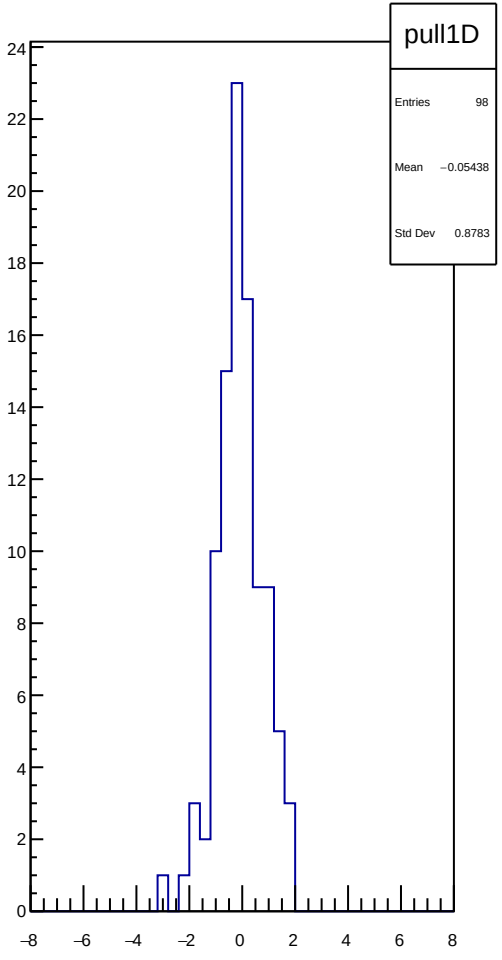

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 97
p0 129.3 ± 0.09868
450
400
350
300
250
200
150
100
50

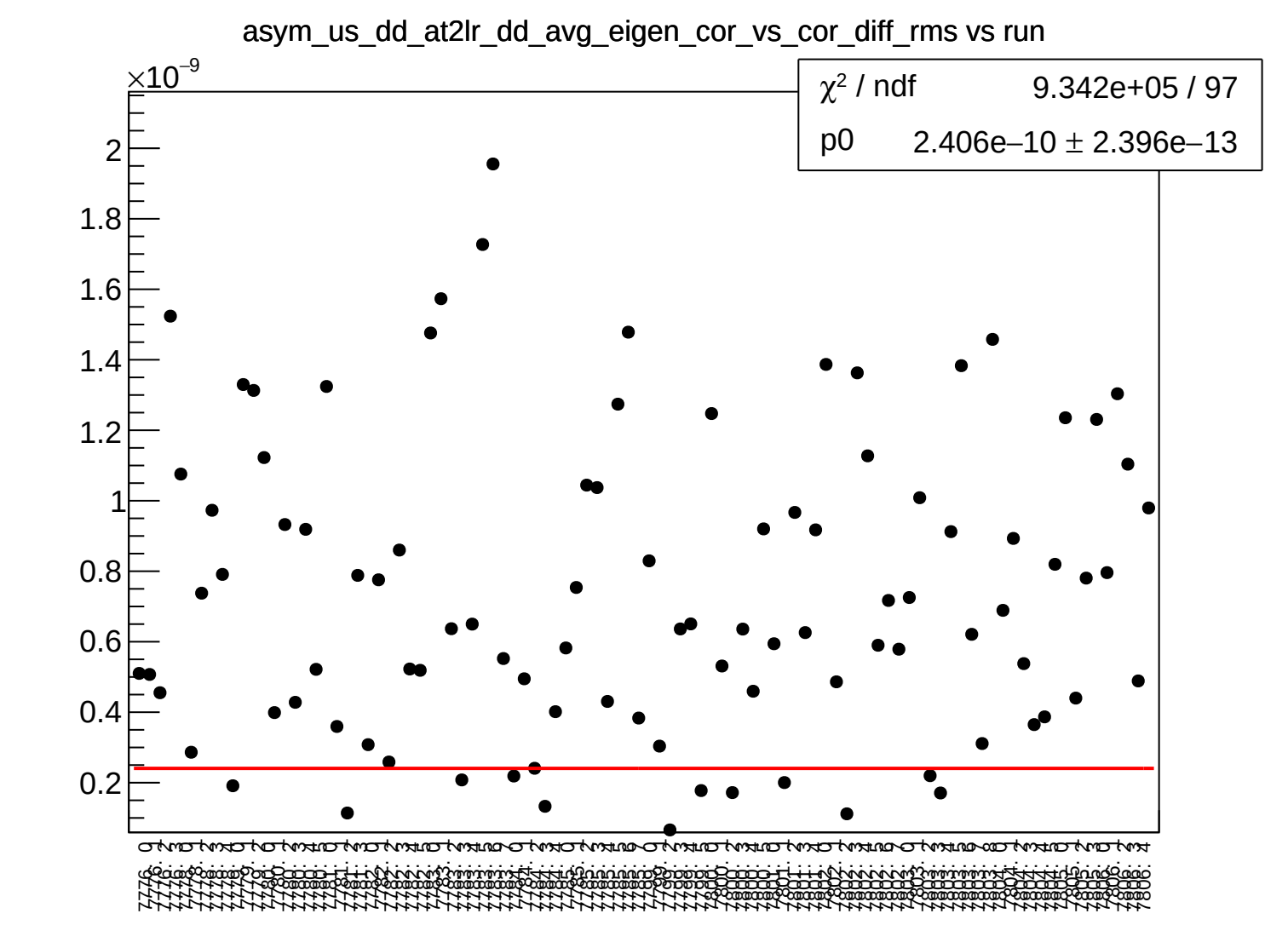

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.51 / 97
p0 0.1066 ± 0.1396
pull
Entries 98
Mean −7332
Std Dev 0

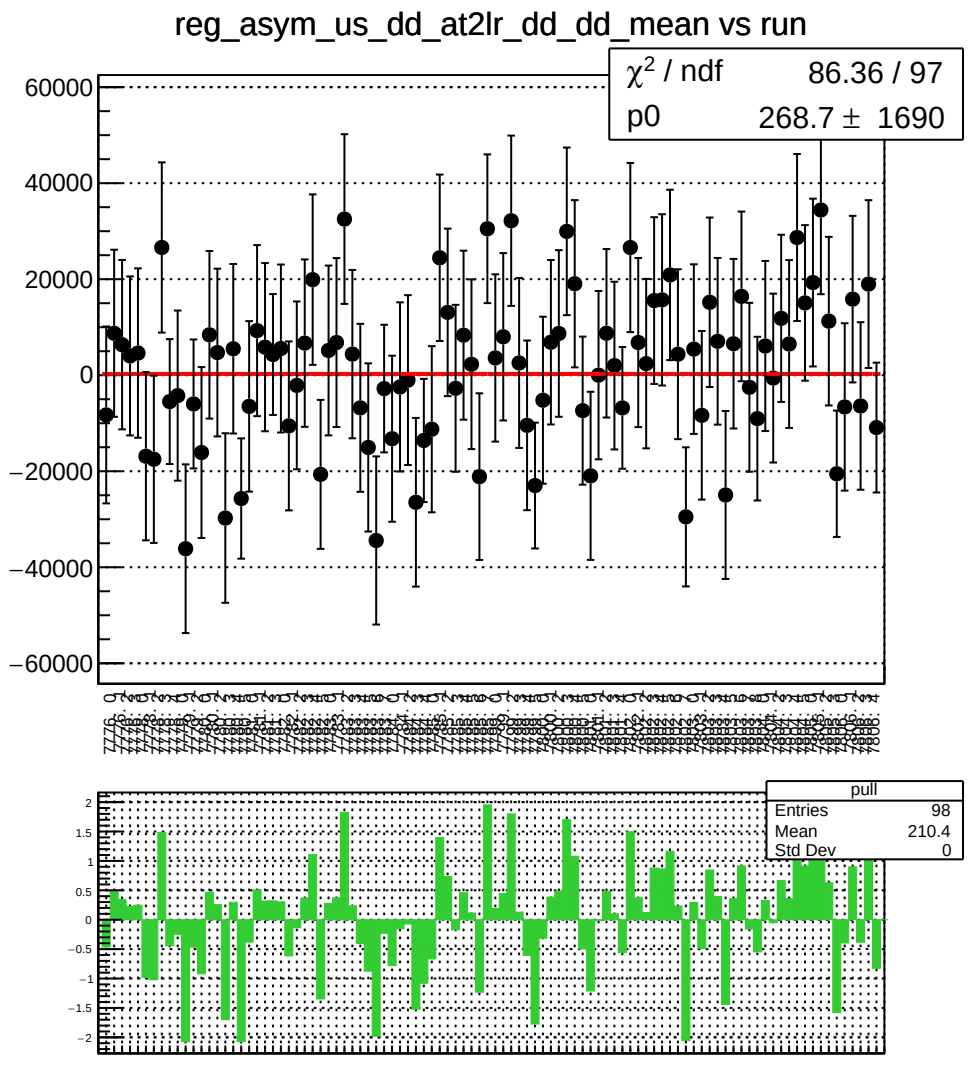

pull1D
Entries 98
Mean 0.0009022
Std Dev 0.8836

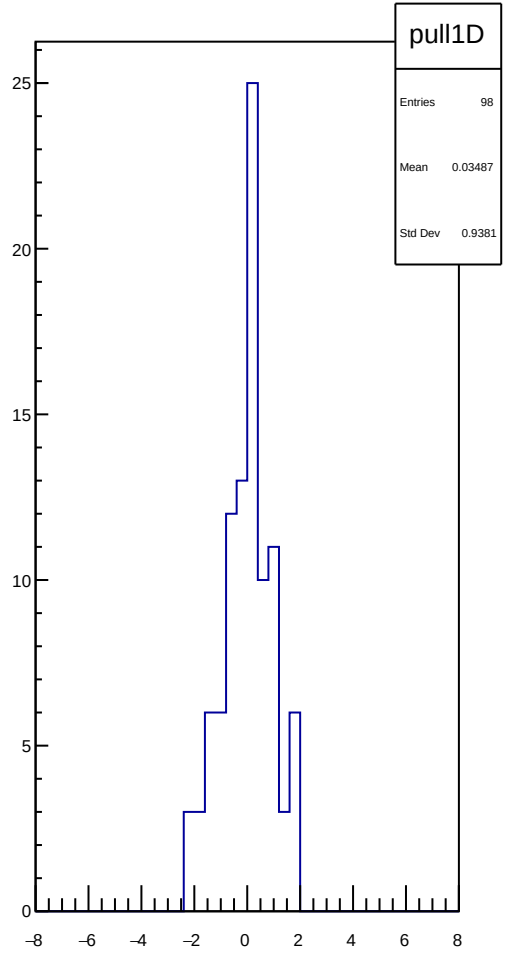

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.269e+05 / 97
p0 129.3 ± 0.09868
450
400
350
300
250
200
150
100
50

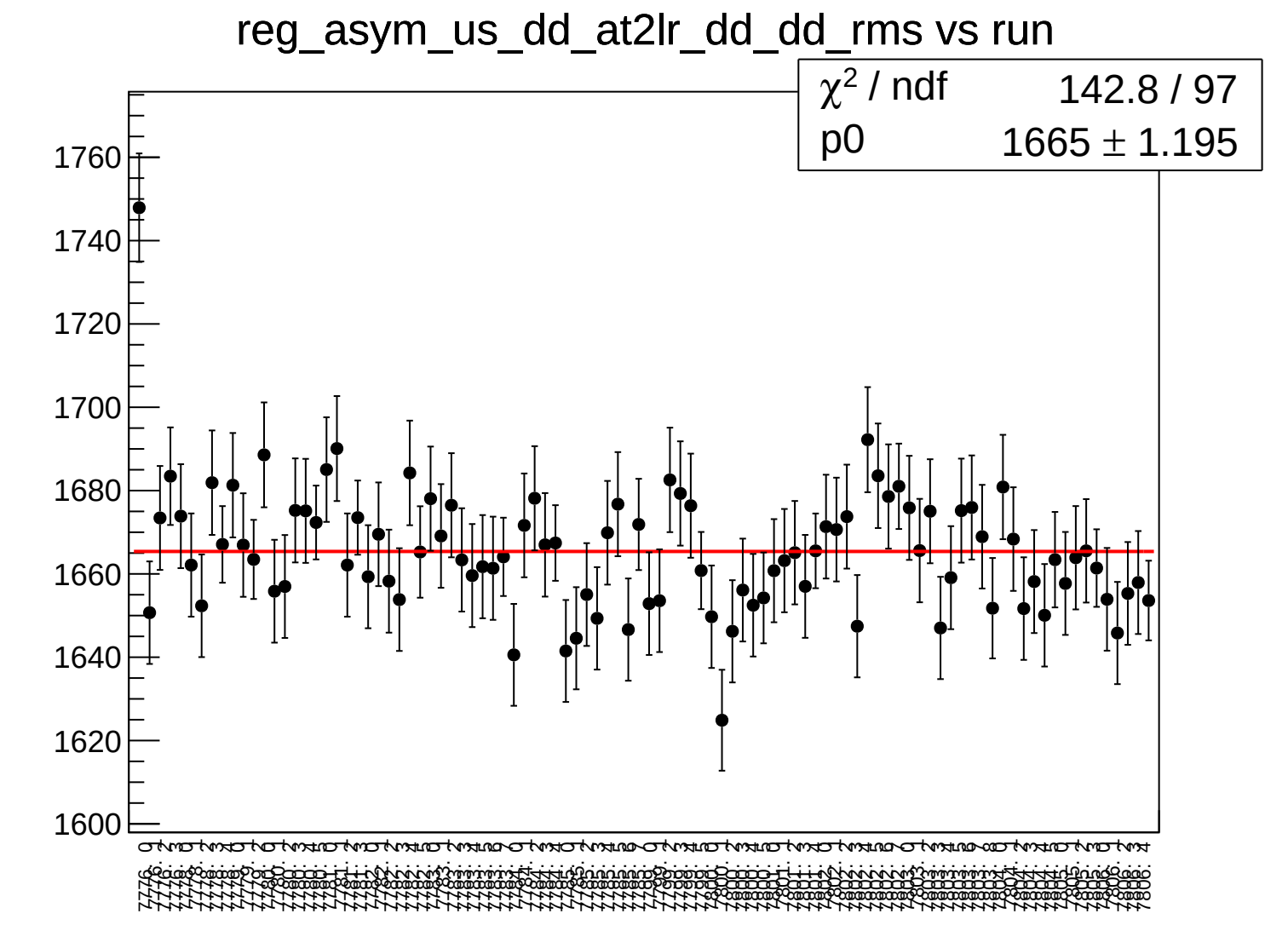

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.89 / 97
p0 −4.921e−13 ± 3.388e−13
pull
Entries 98
Mean 110.1
Std Dev 0

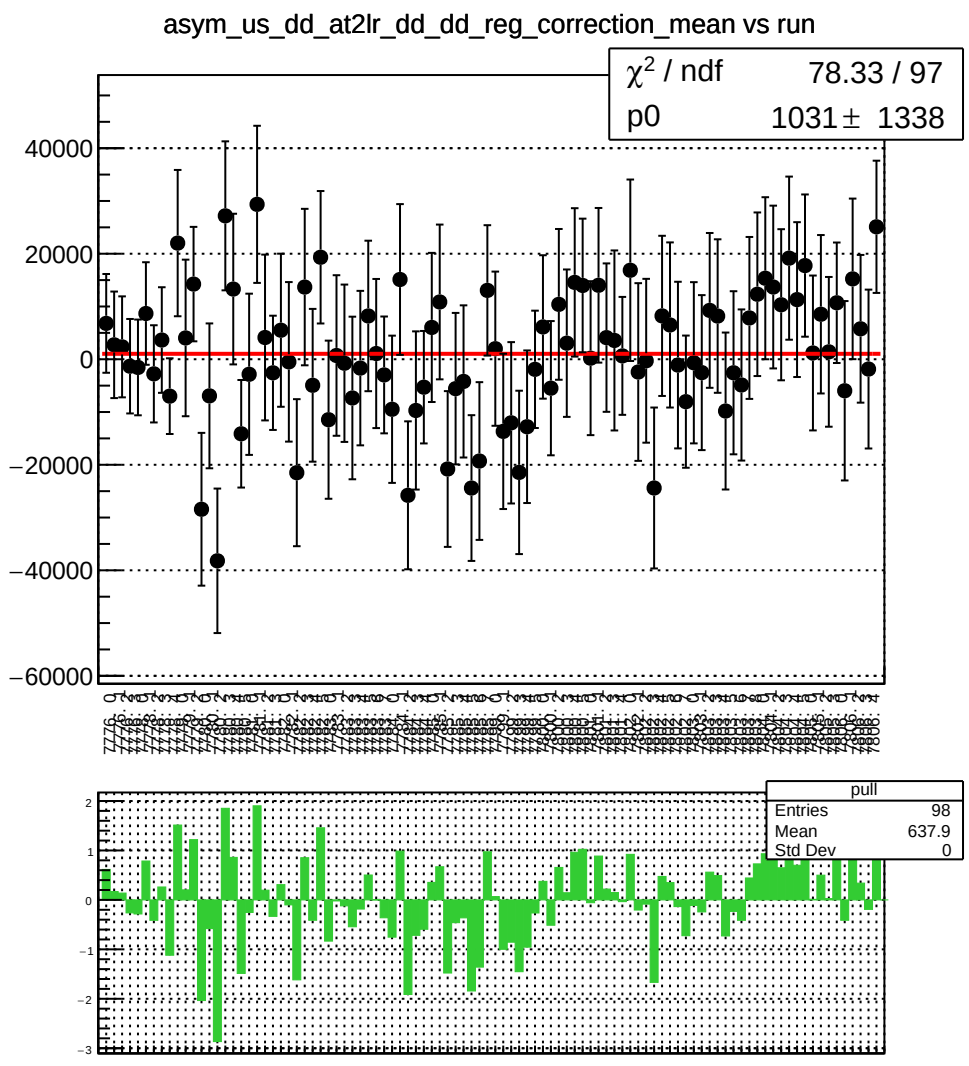

pull1D
Entries 98
Mean −0.05438
Std Dev 0.8783

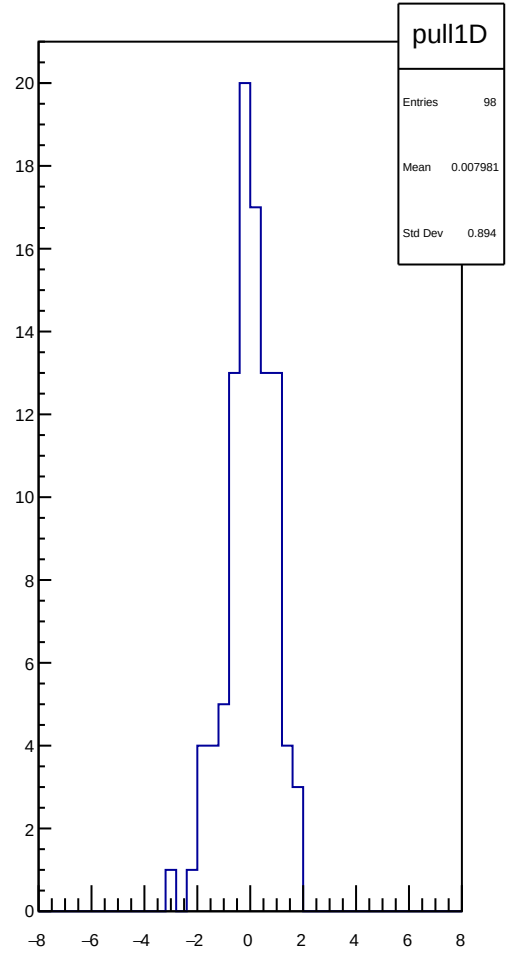

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.342e+05 / 97
p0 2.406e−10 ± 2.396e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

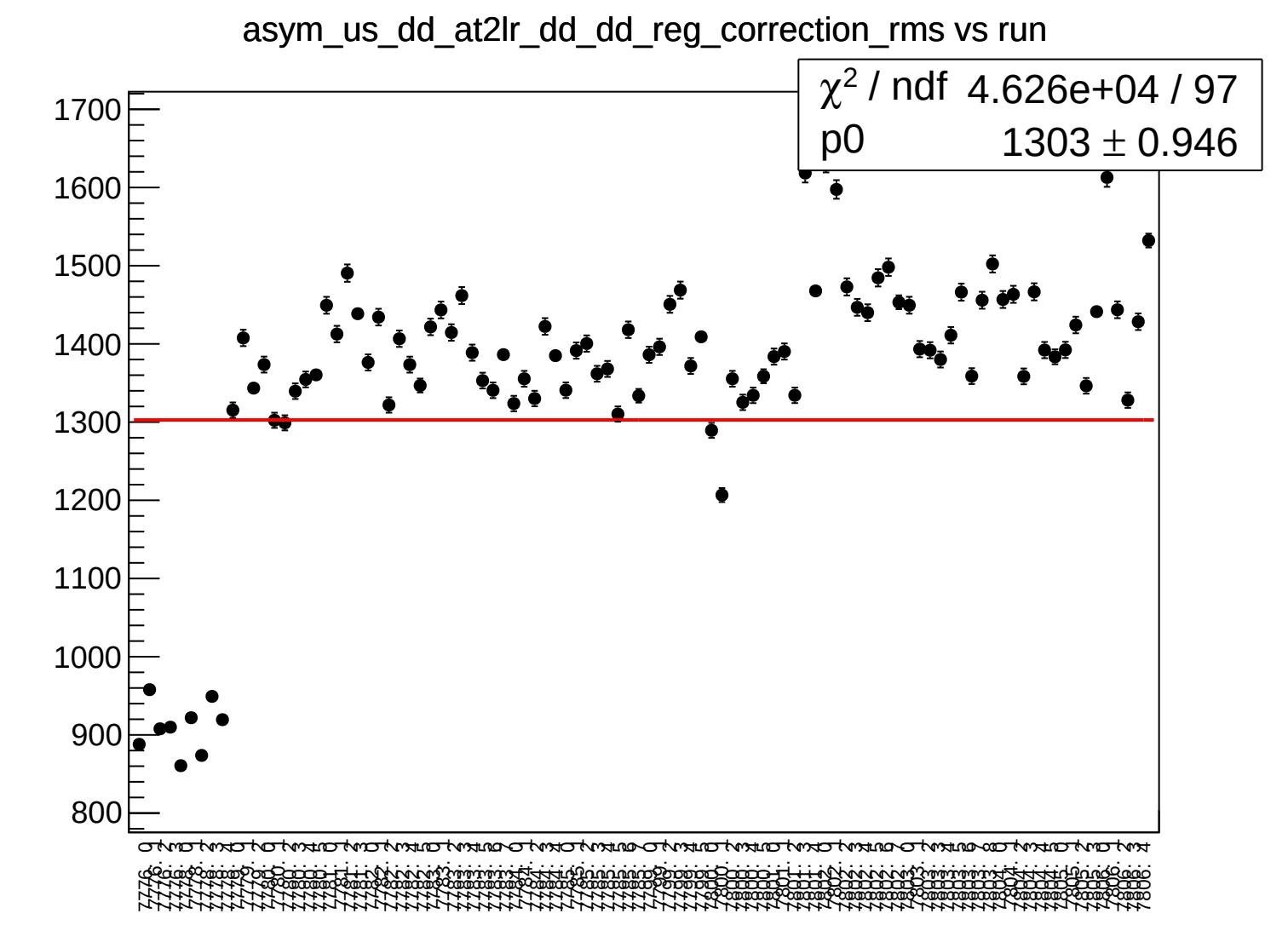

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.36 / 97
p0 268.7 ± 1690
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 210.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

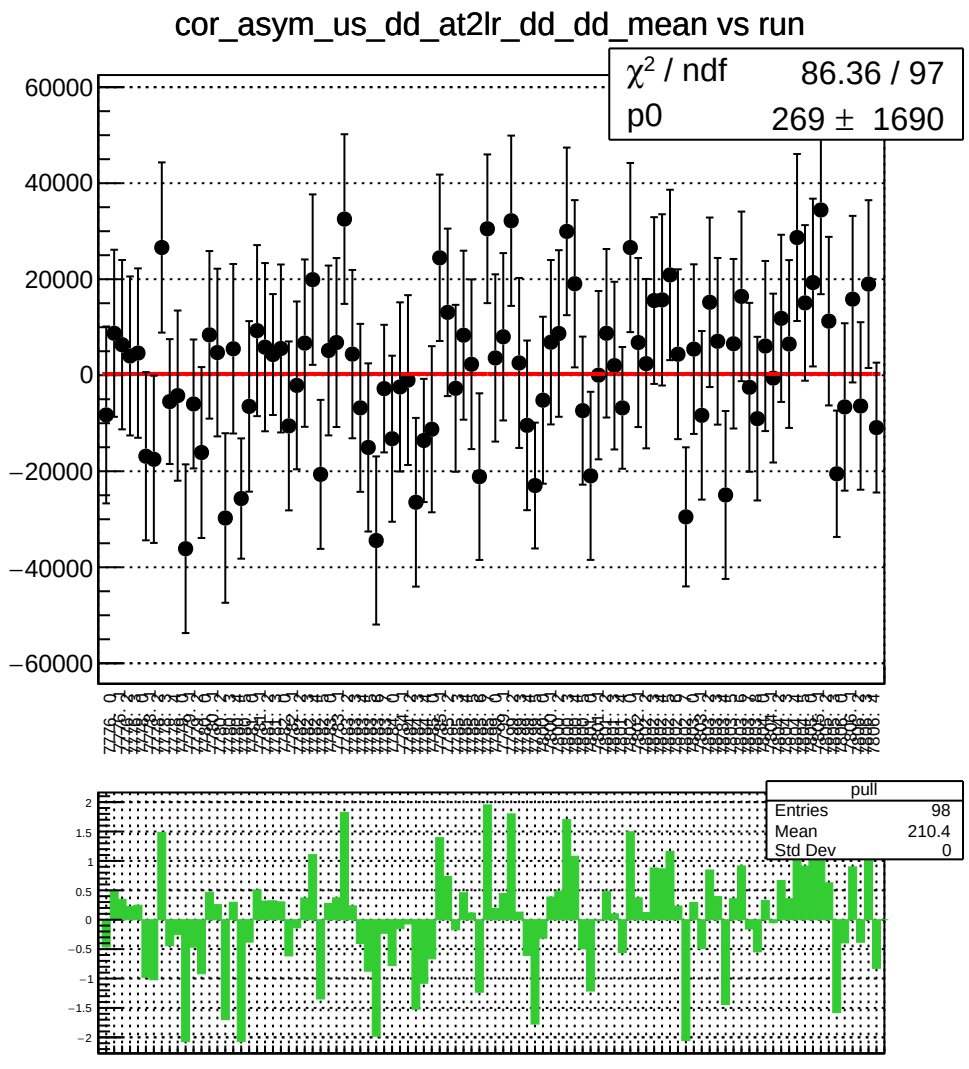

pull1D
Entries 98
Mean 0.03487
Std Dev 0.9381
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

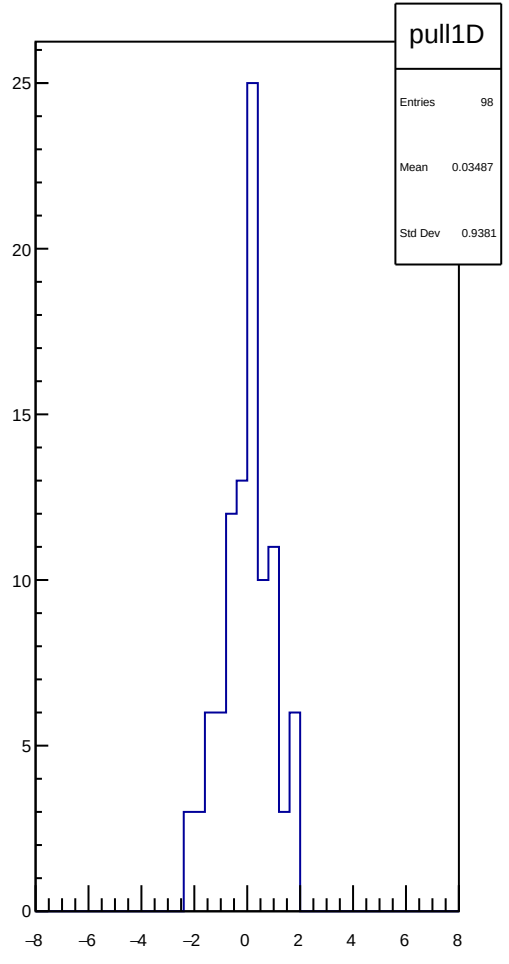

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 142.8 / 97
p0 1665 ± 1.195
1760
1740
1720
1700
1680
1660
1640
1620
1600

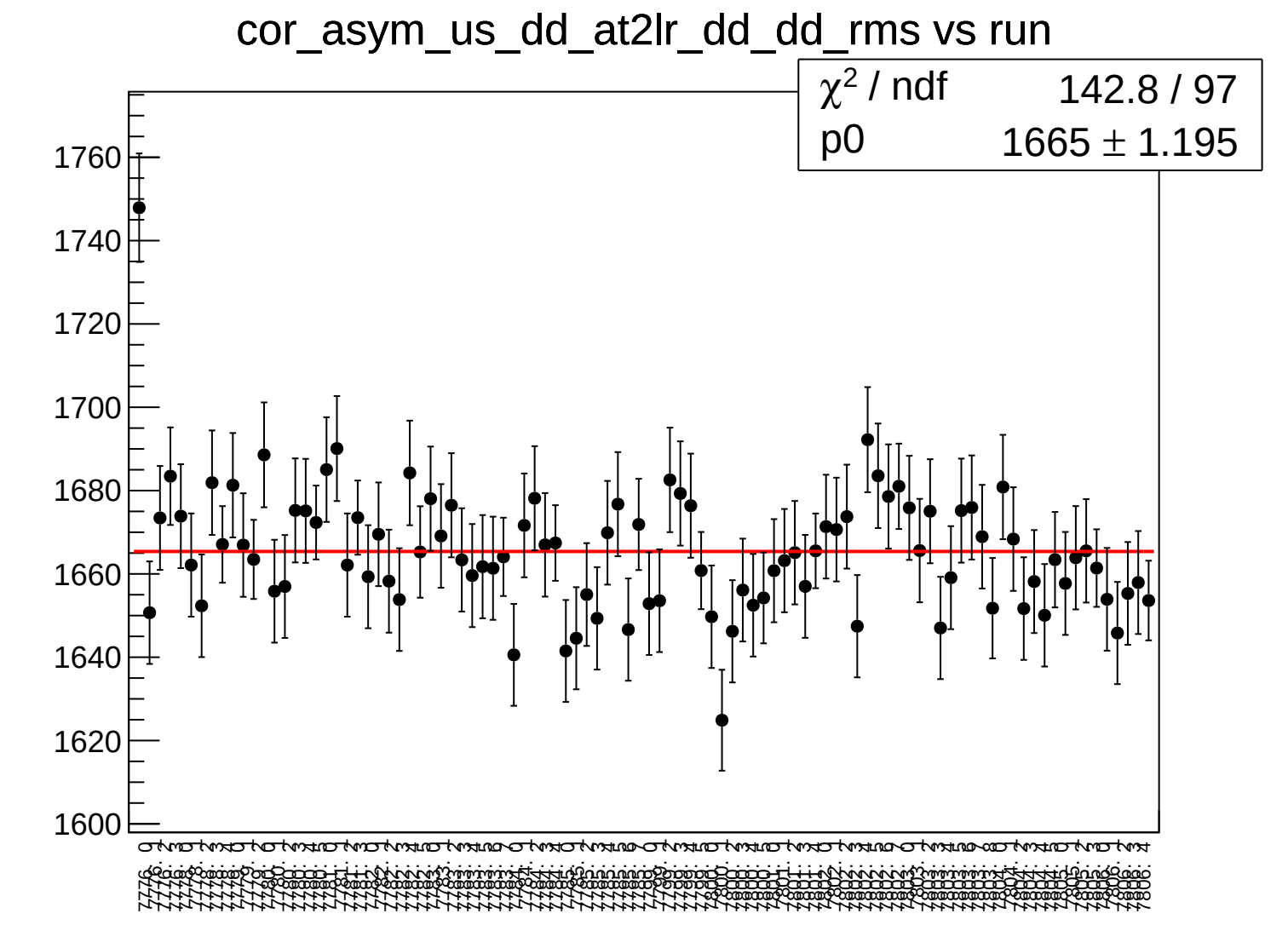

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 78.33 / 97
p0 1031 ± 1338
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 637.9
Std Dev 0
2
1
0
−1
−2
−3

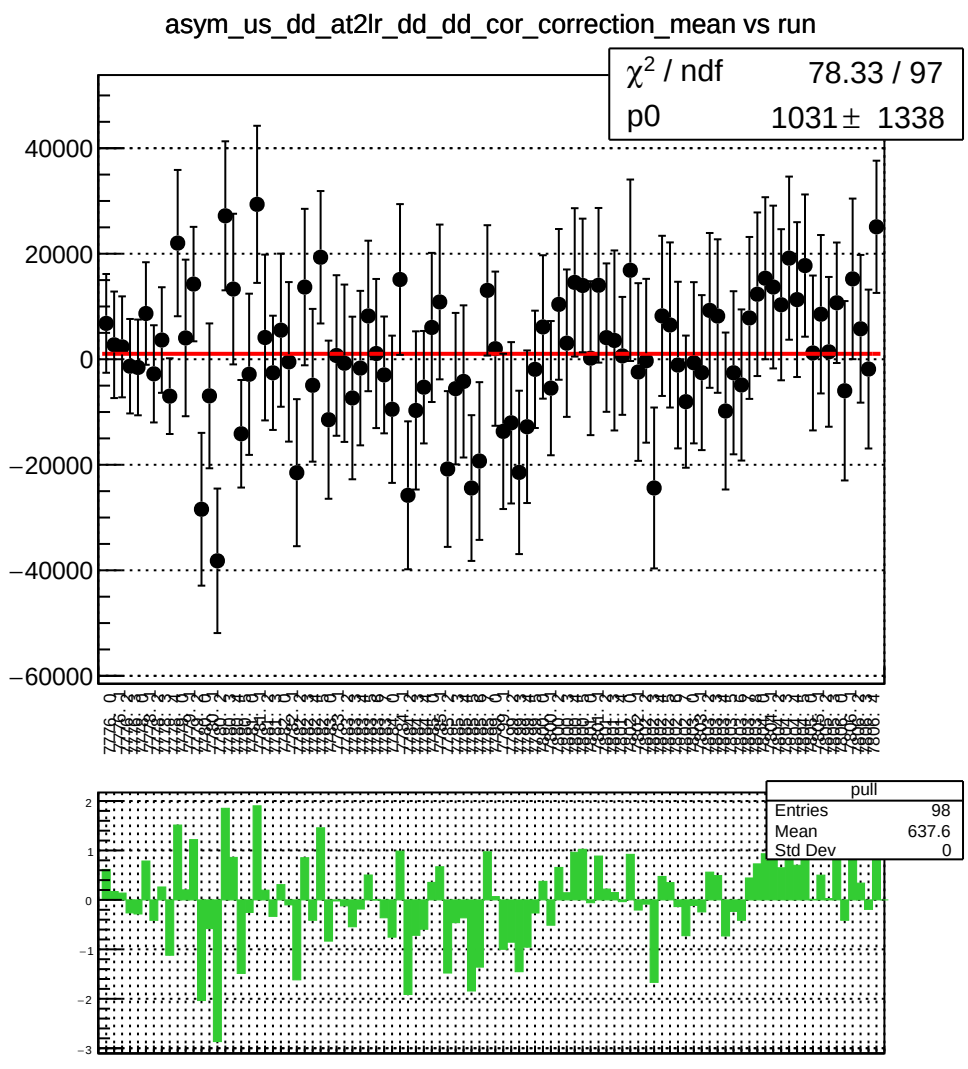

pull1D
Entries 98
Mean 0.007981
Std Dev 0.894
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

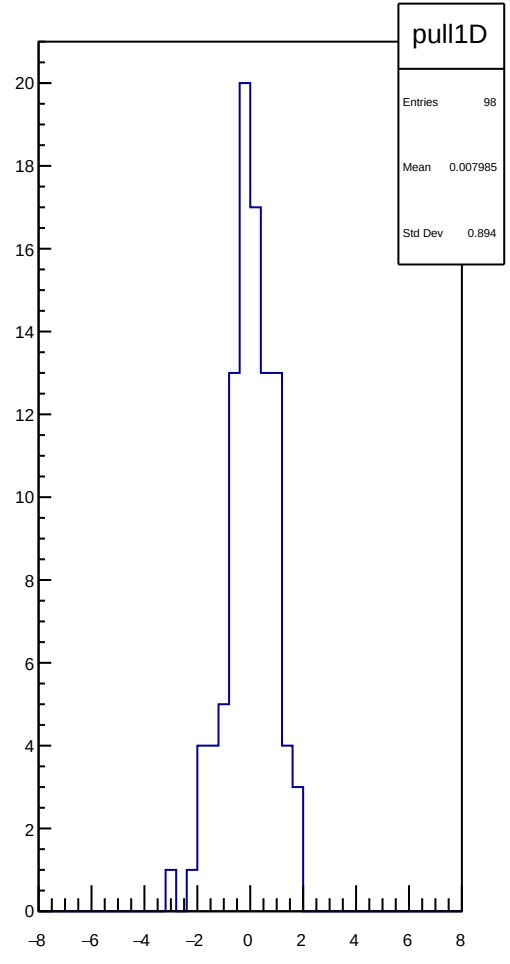

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 4.626e+04 / 97
p0 1303 ± 0.946
1700
1600
1500
1400
1300
1200
1100
1000
900
800

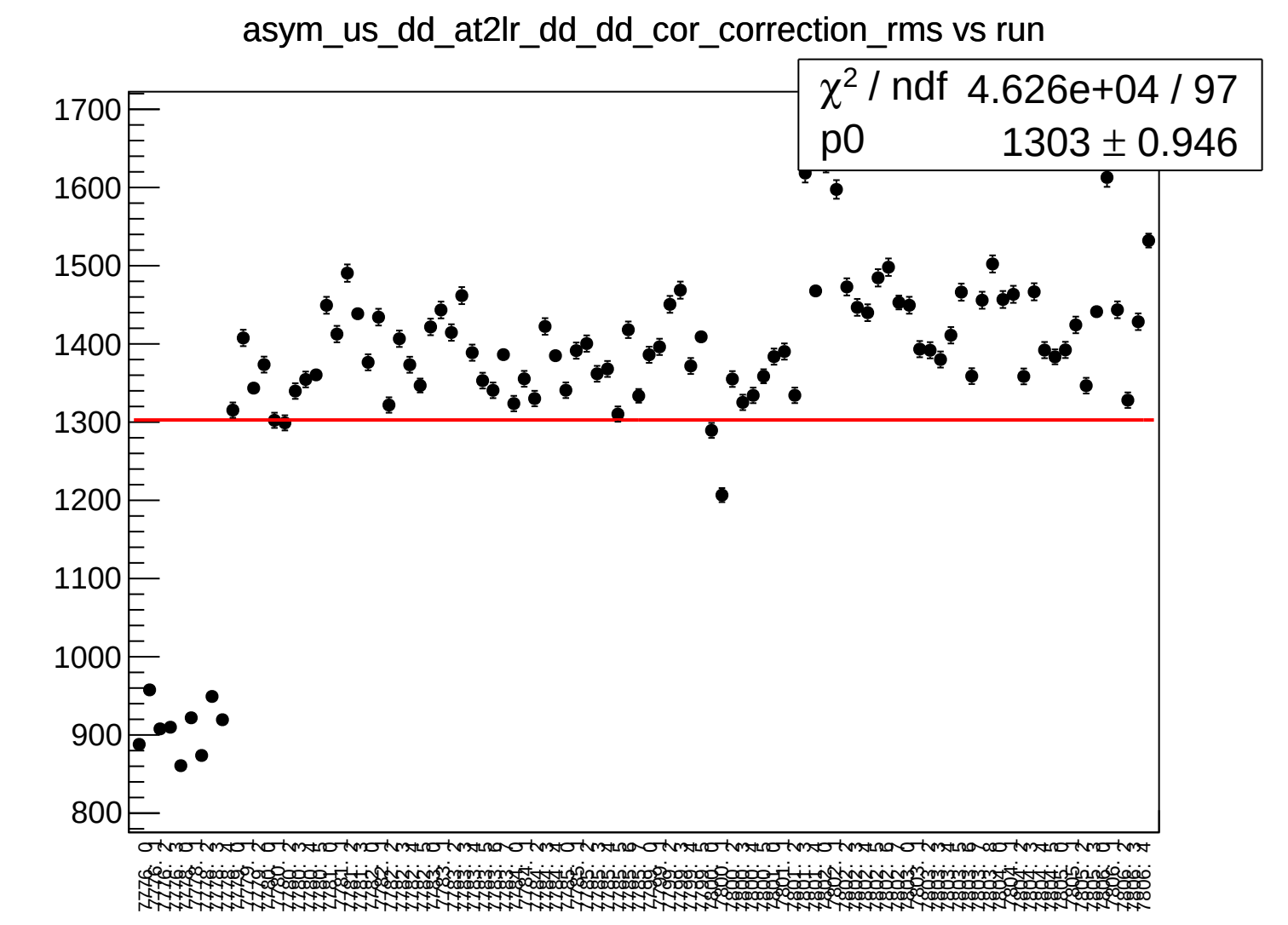

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.36 / 97
p0 269 ± 1690
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 210.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

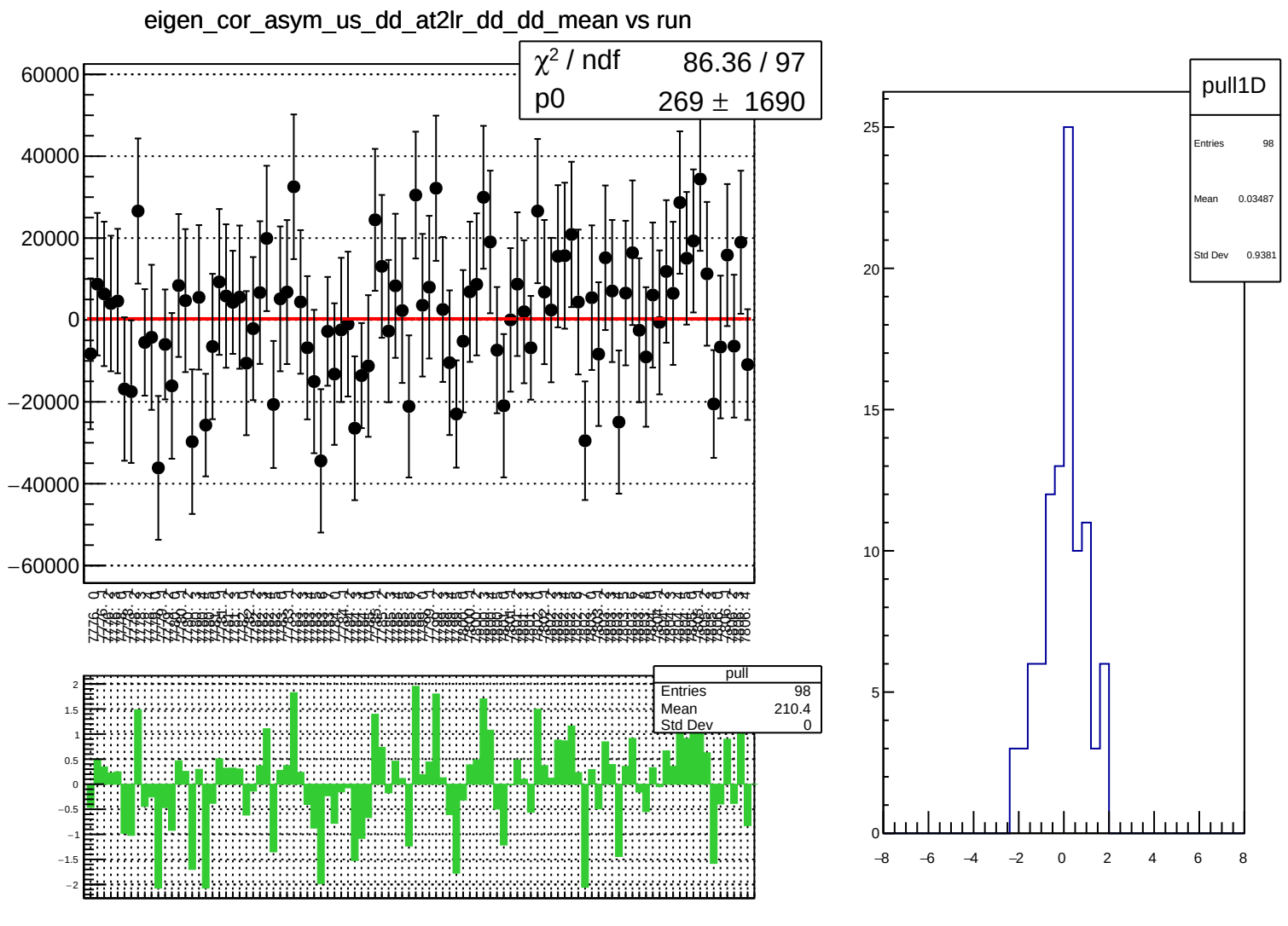

pull1D
Entries 98
Mean 0.03487
Std Dev 0.9381
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

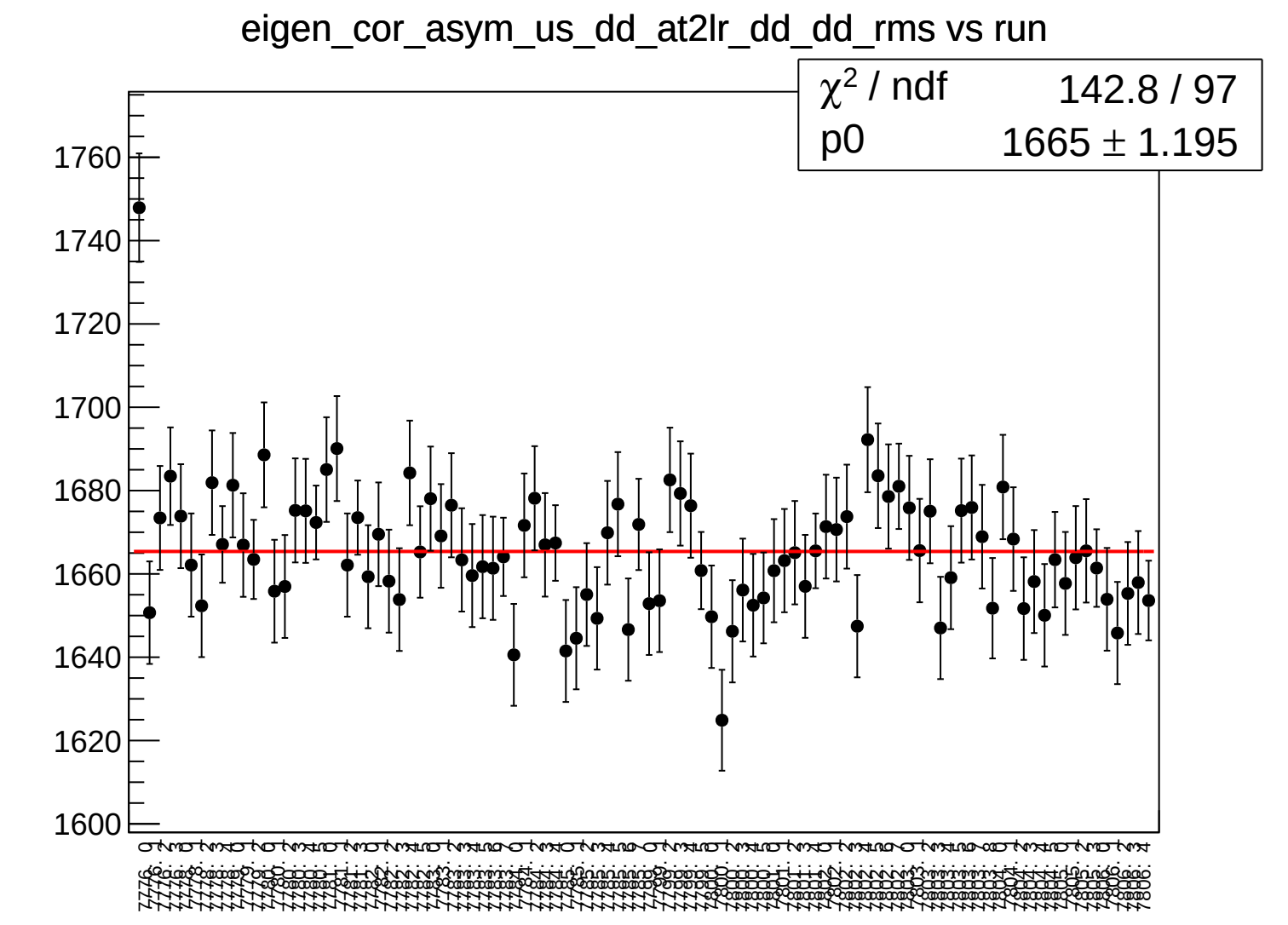

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 142.8 / 97
p0 1665 ± 1.195
1760
1740
1720
1700
1680
1660
1640
1620
1600

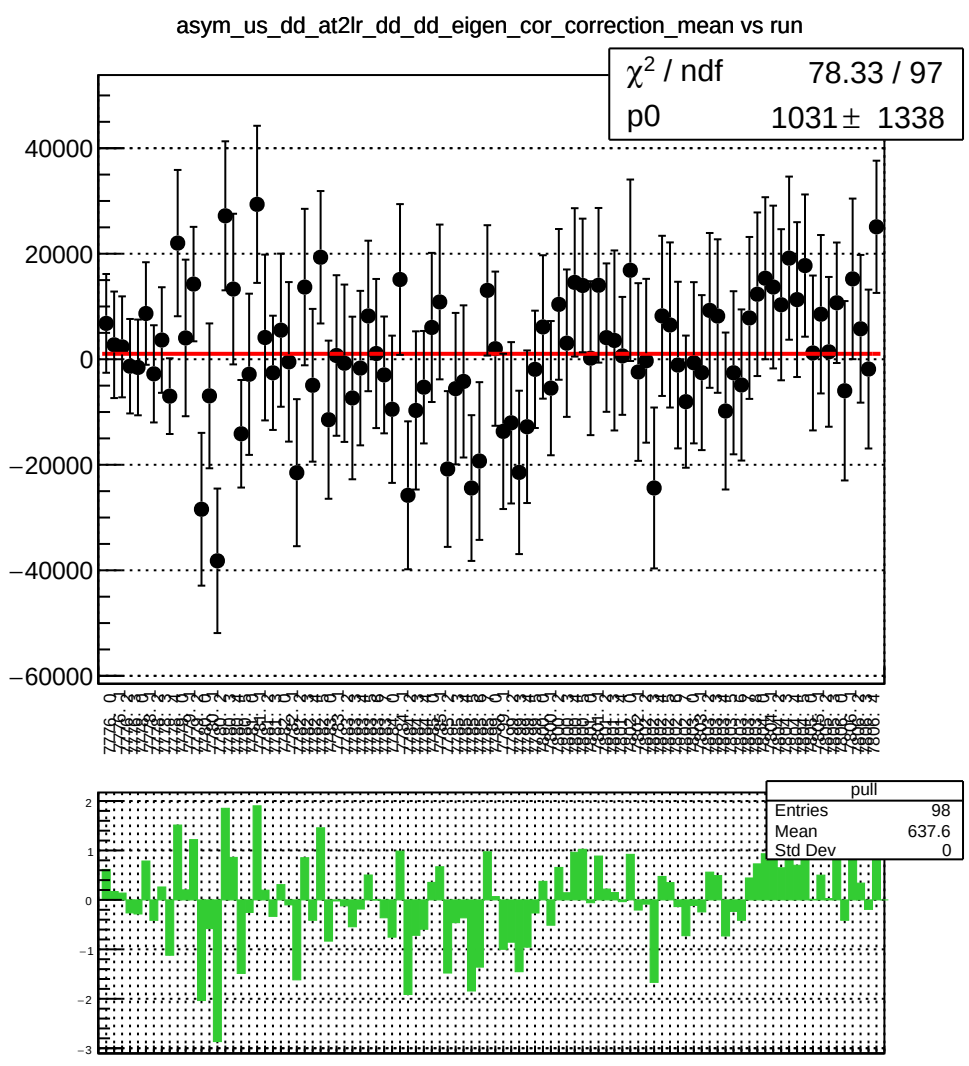

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 78.33 / 97
p0 1031 ± 1338
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 637.6
Std Dev 0
2
1
0
−1
−2
−3

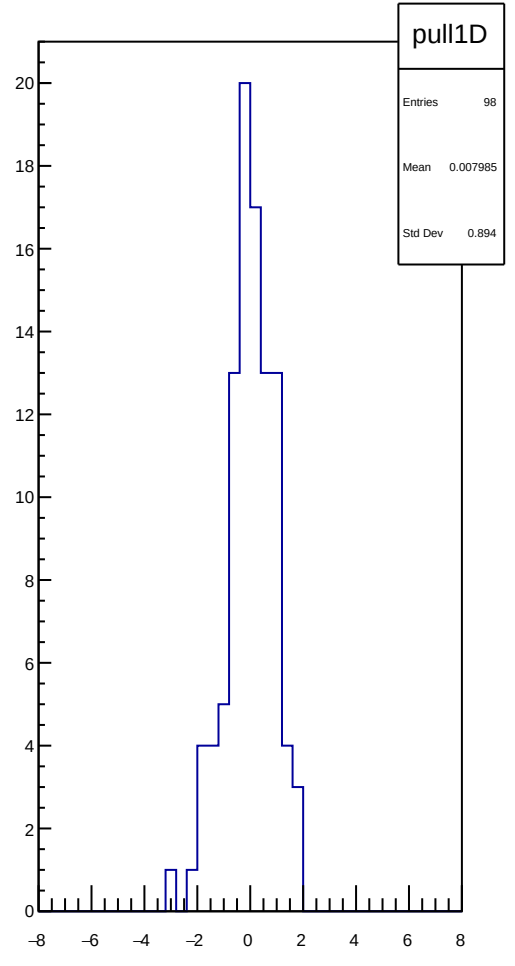

pull1D
Entries 98
Mean 0.007985
Std Dev 0.894
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

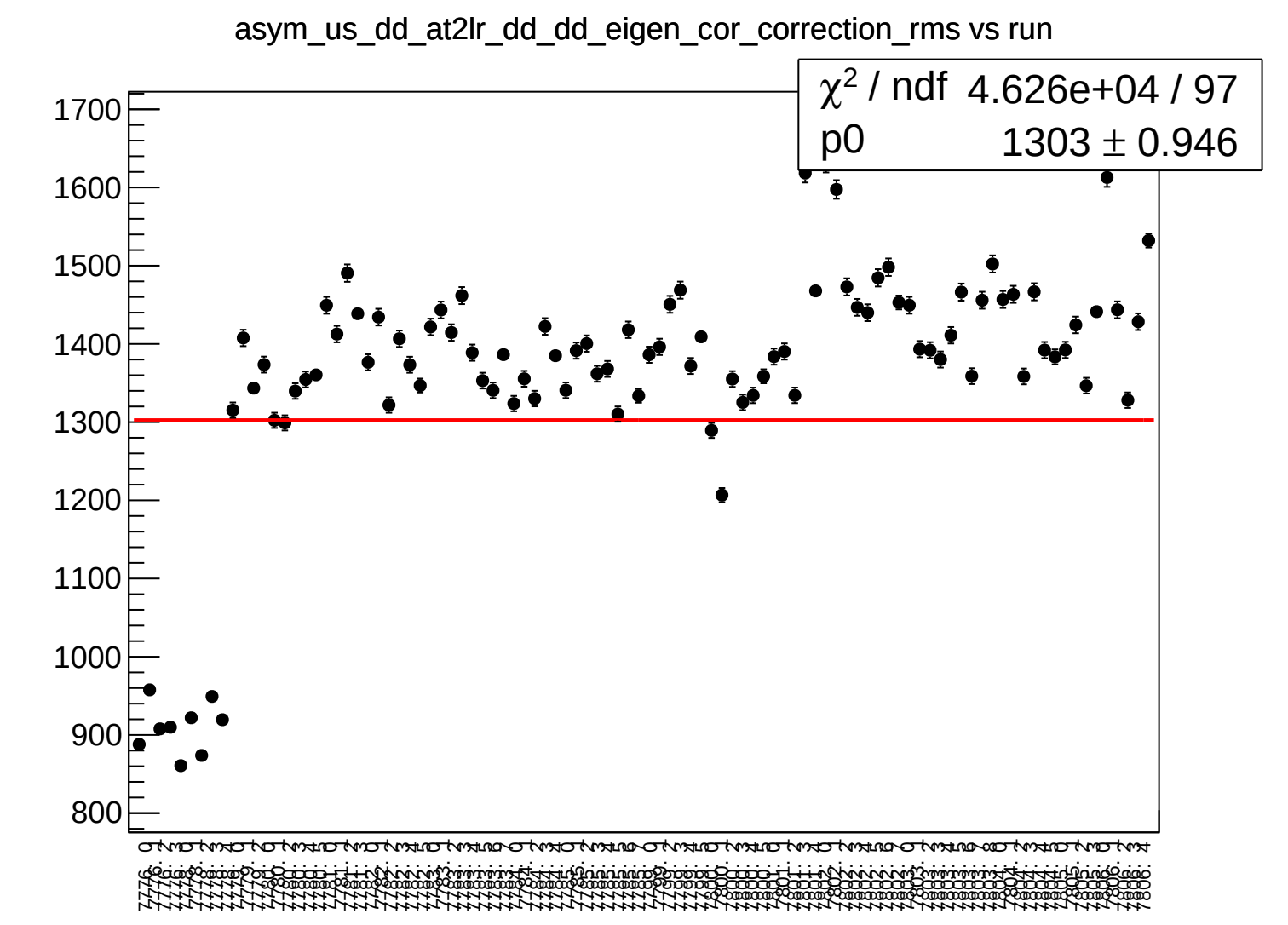

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 4.626e+04 / 97
p0 1303 ± 0.946
1700
1600
1500
1400
1300
1200
1100
1000
900
800

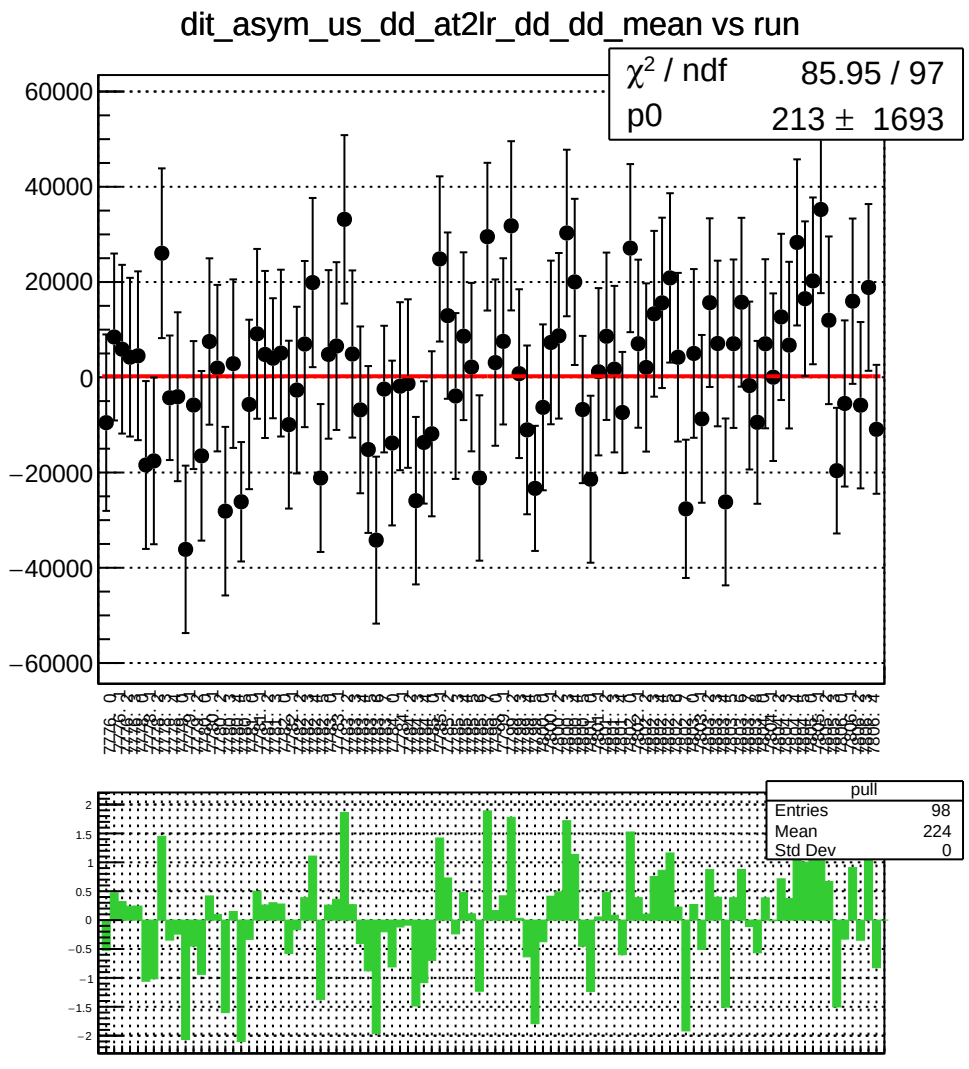

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.36 / 97
p0 269 ± 1690
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 210.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.03487
Std Dev 0.9381
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

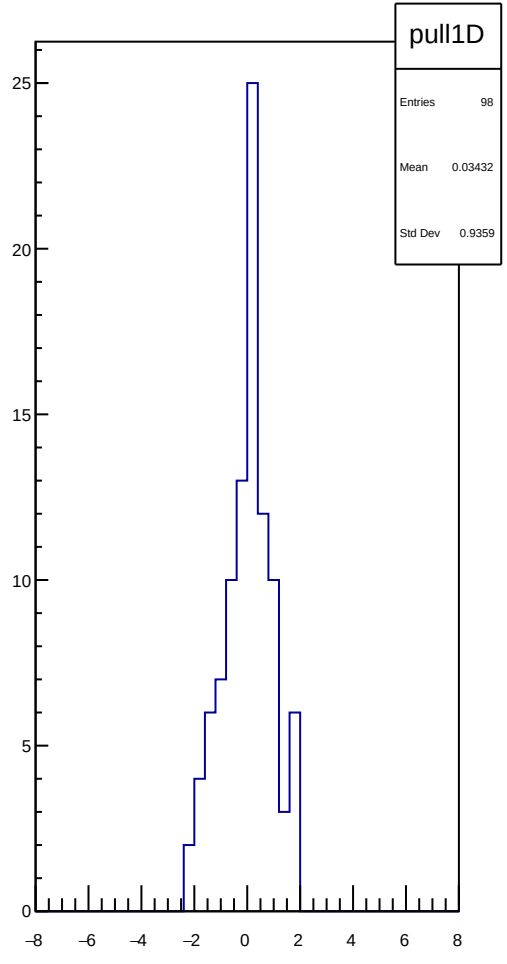

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 142.8 / 97
p0 1665 ± 1.195
1760
1740
1720
1700
1680
1660
1640
1620
1600

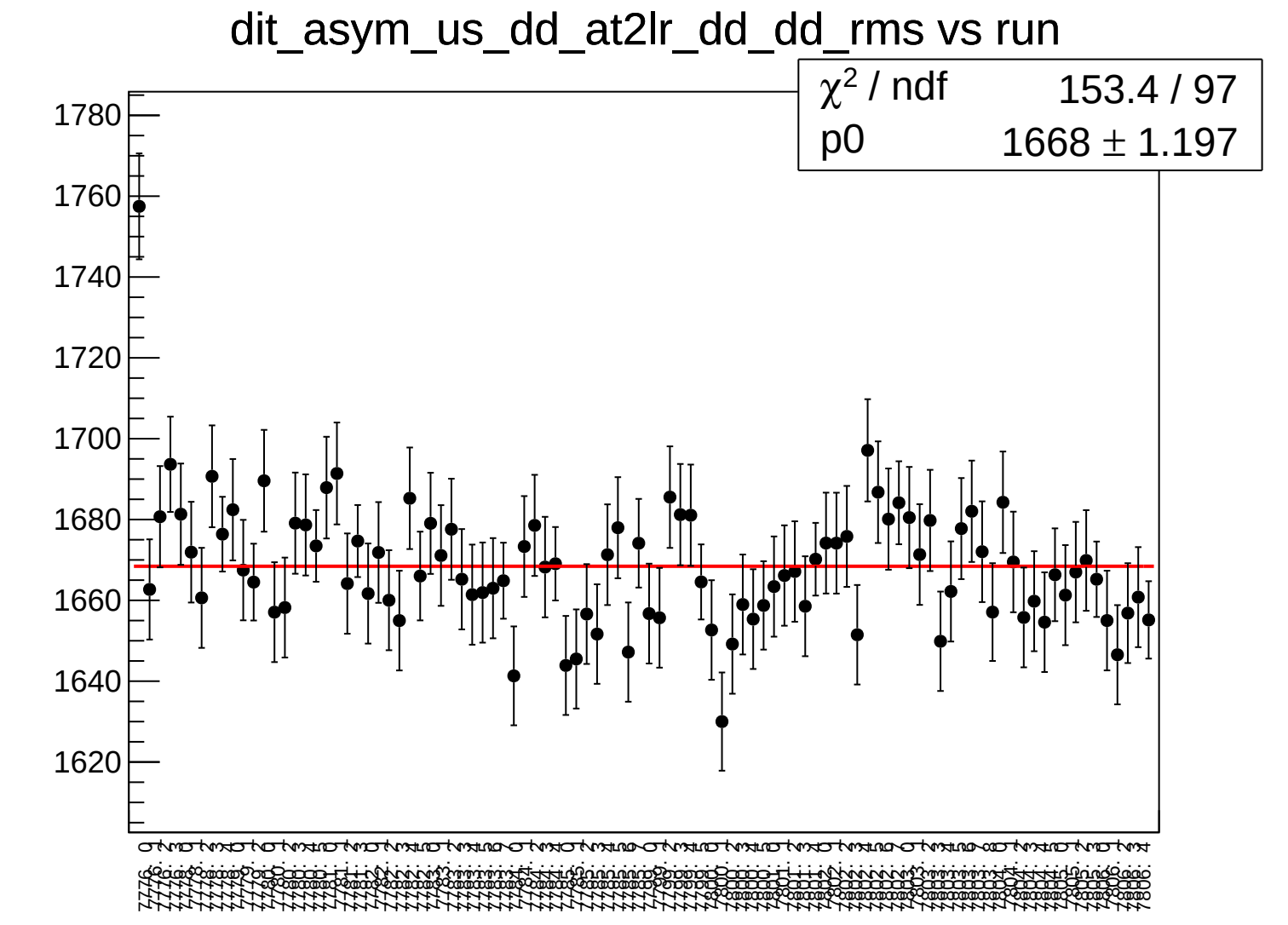

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.33 / 97
p0 1031 ± 1338
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 637.6
Std Dev 0
2
1
0
−1
−2
−3

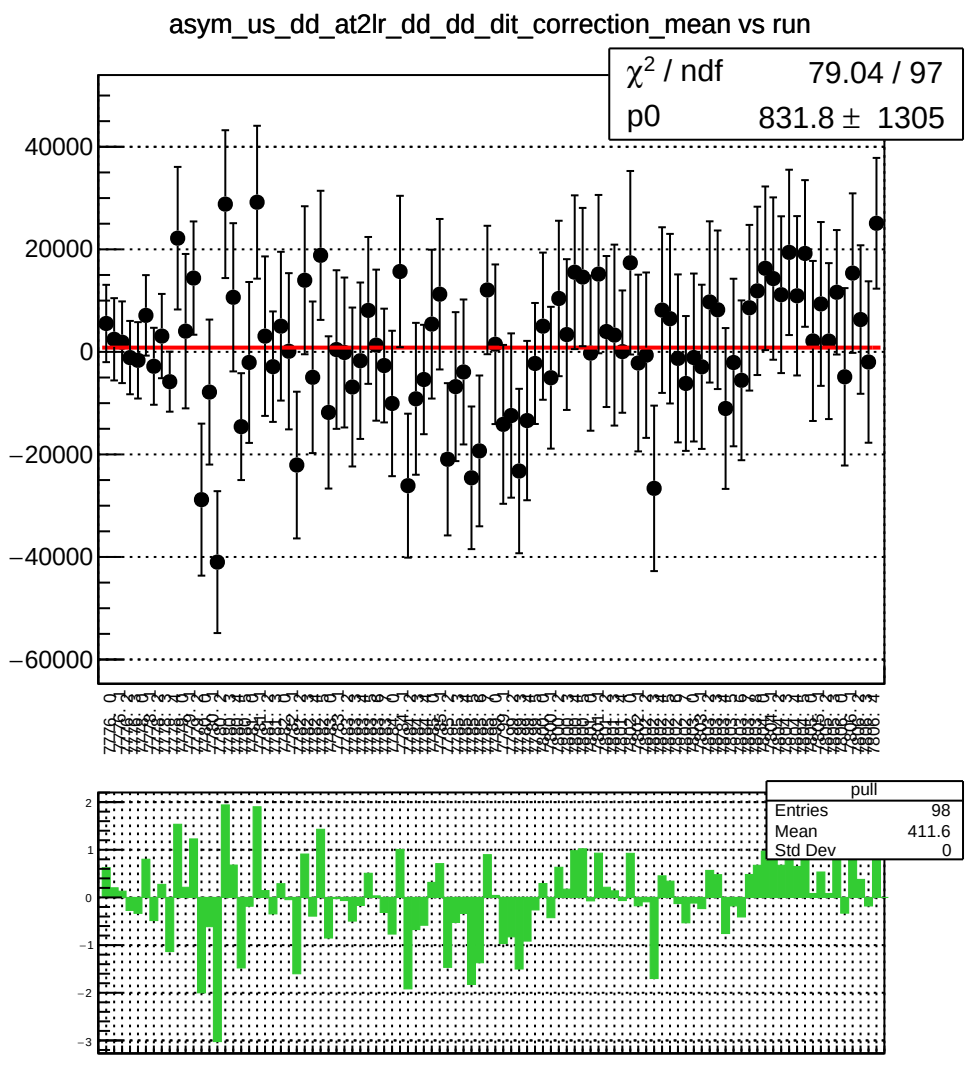

pull1D
Entries 98
Mean 0.007985
Std Dev 0.894
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

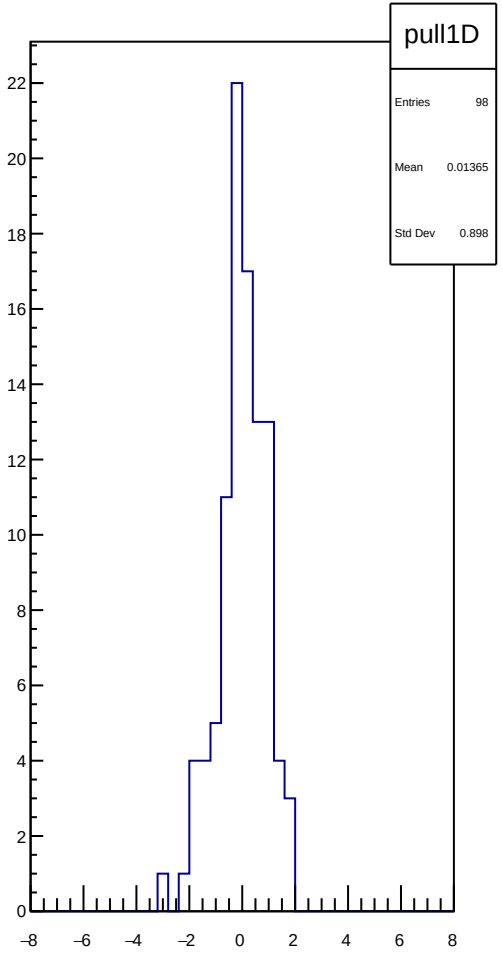

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.626e+04 / 97
p0 1303 ± 0.946
1700
1600
1500
1400
1300
1200
1100
1000
900
800

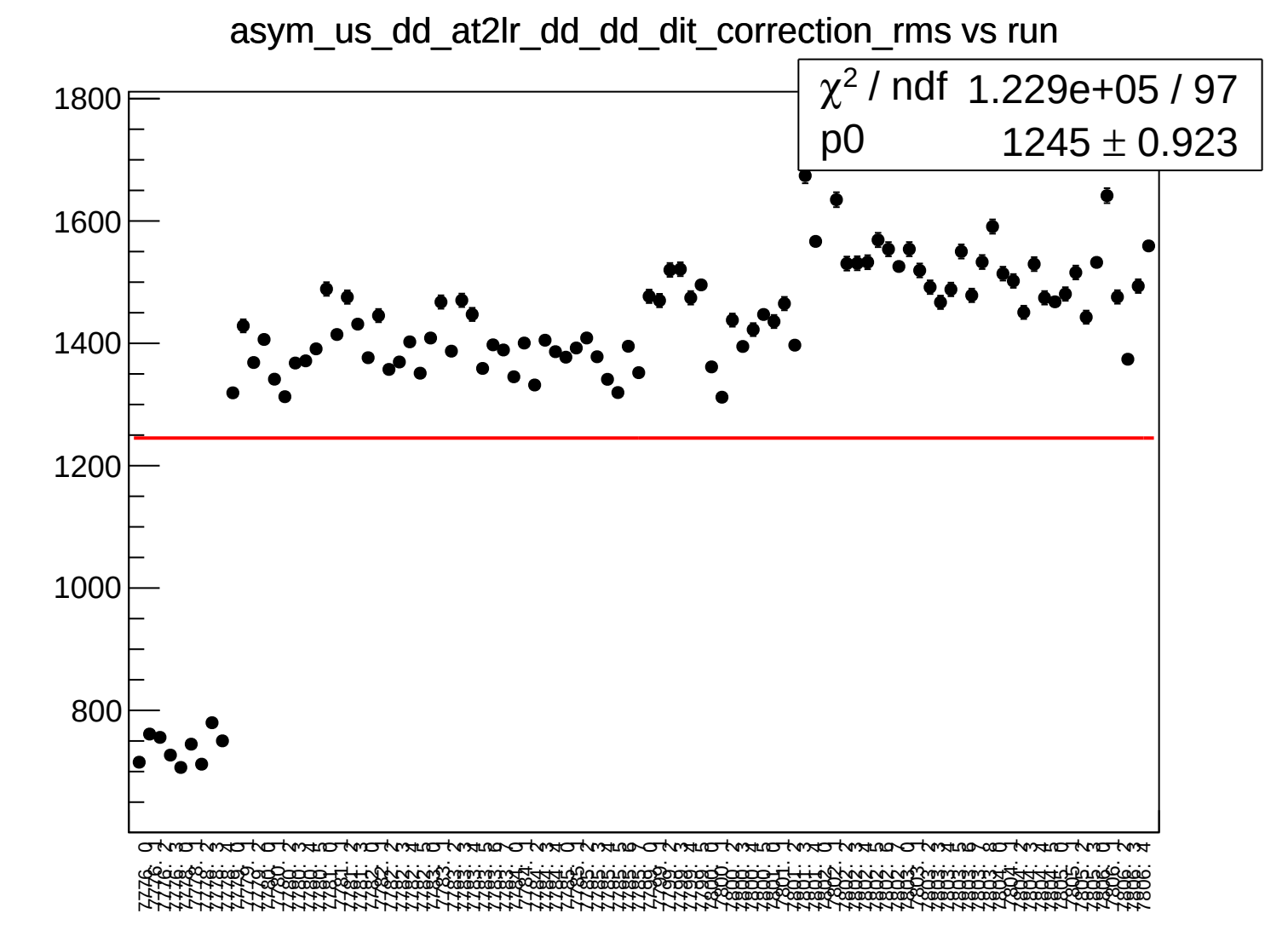

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 85.95 / 97
p0 213 ± 1693
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 224
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

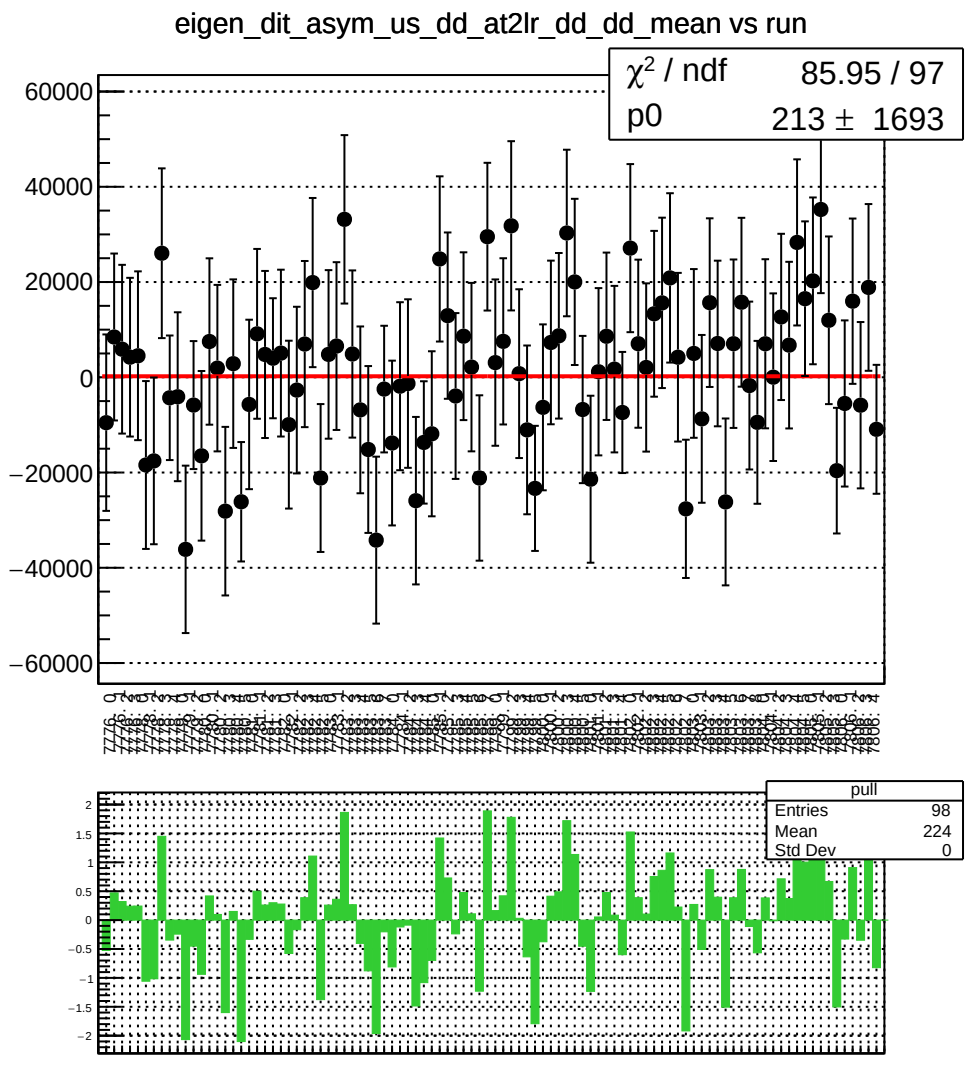

pull1D
Entries 98
Mean 0.03432
Std Dev 0.9359
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

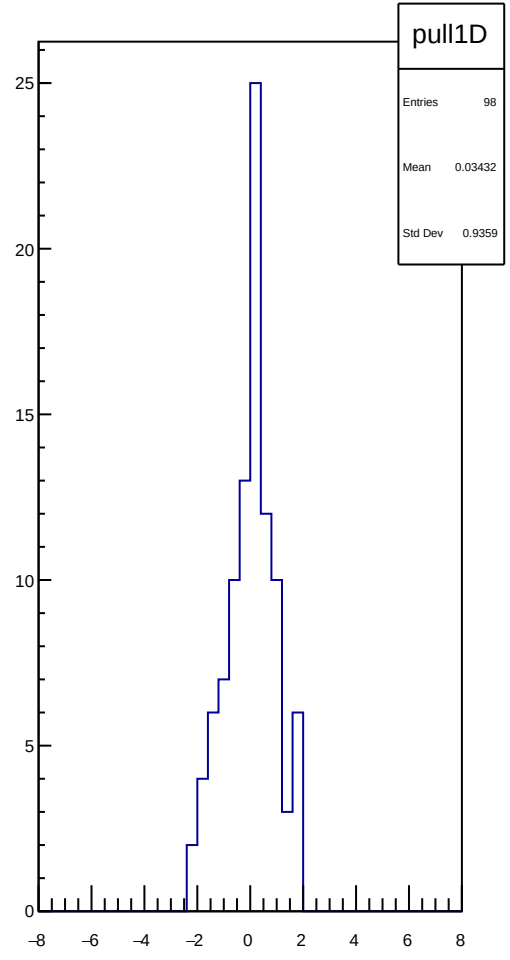

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 153.4 / 97
p0 1668 ± 1.197
1780
1760
1740
1720
1700
1680
1660
1640
1620

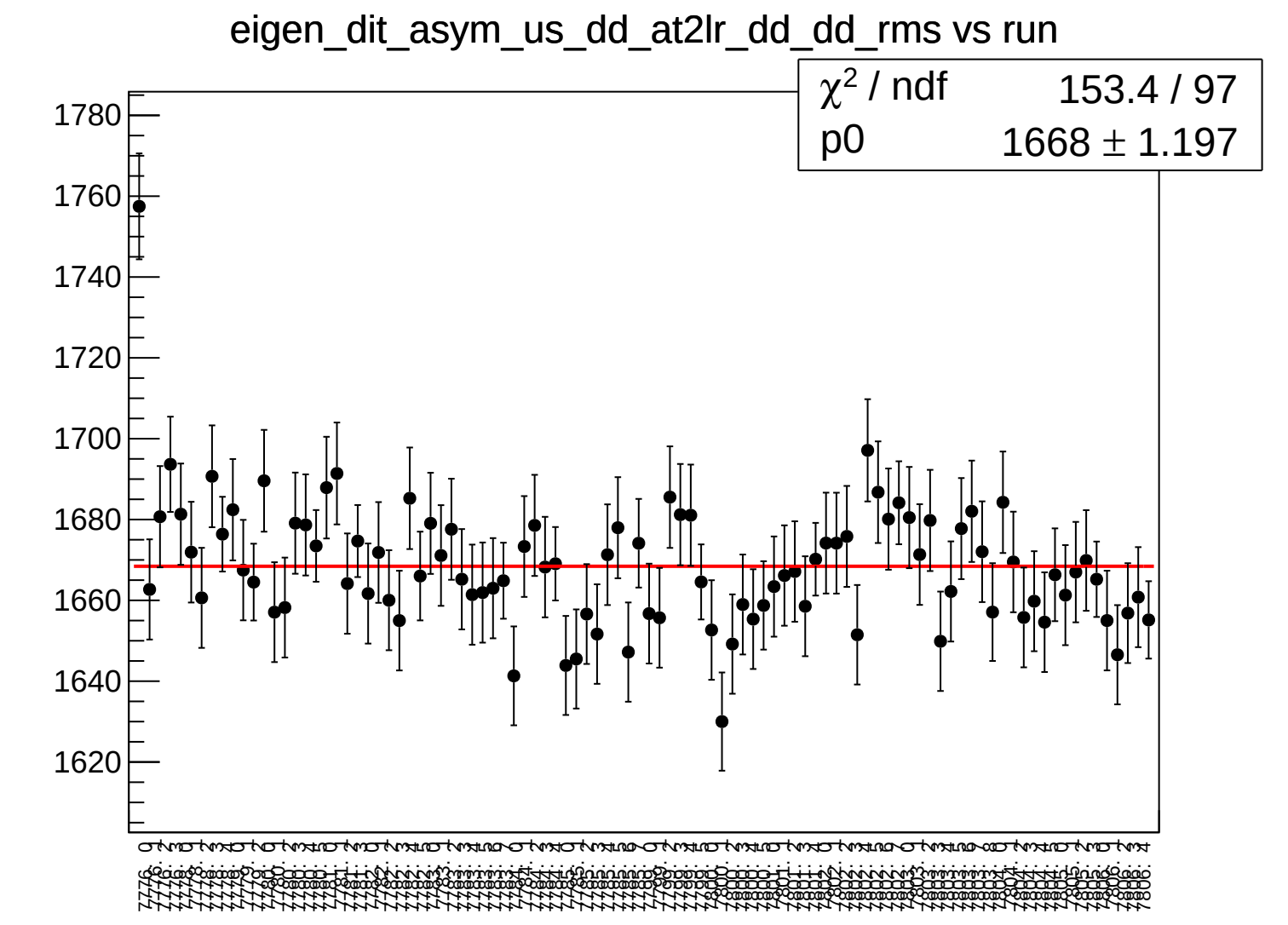

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 79.04 / 97
p0 831.8 ± 1305
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 411.6
Std Dev 0
2
1
0
−1
−2
−3

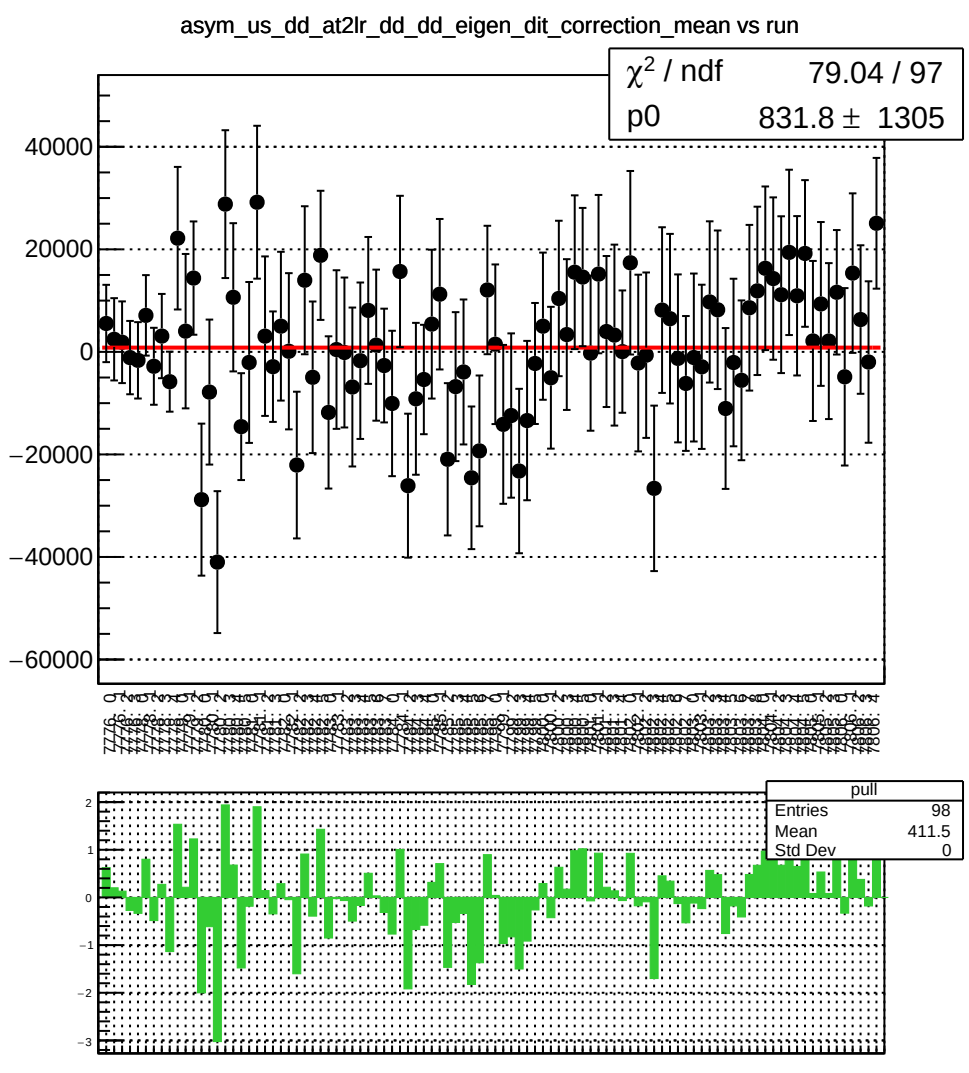

pull1D
Entries 98
Mean 0.01365
Std Dev 0.898
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

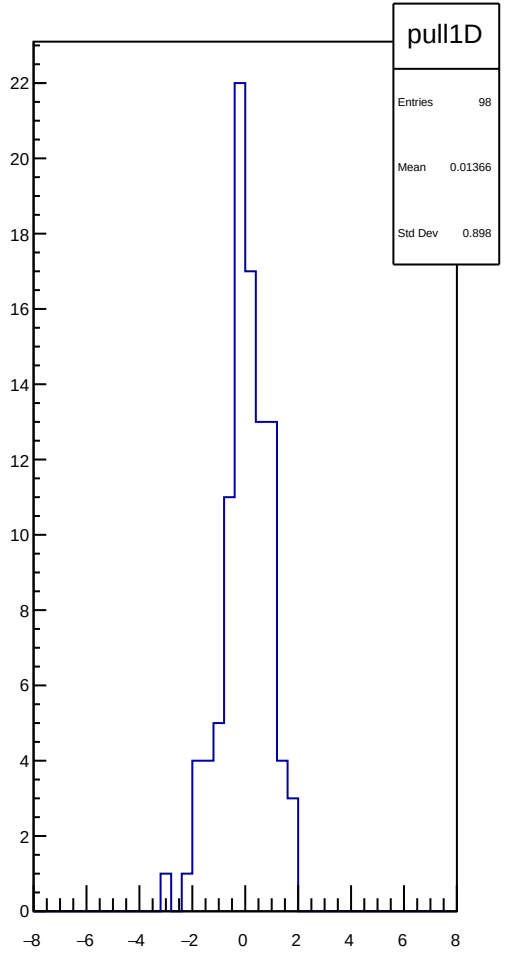

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.229e+05 / 97
p0 1245 ± 0.923
1800
1600
1400
1200
1000
800

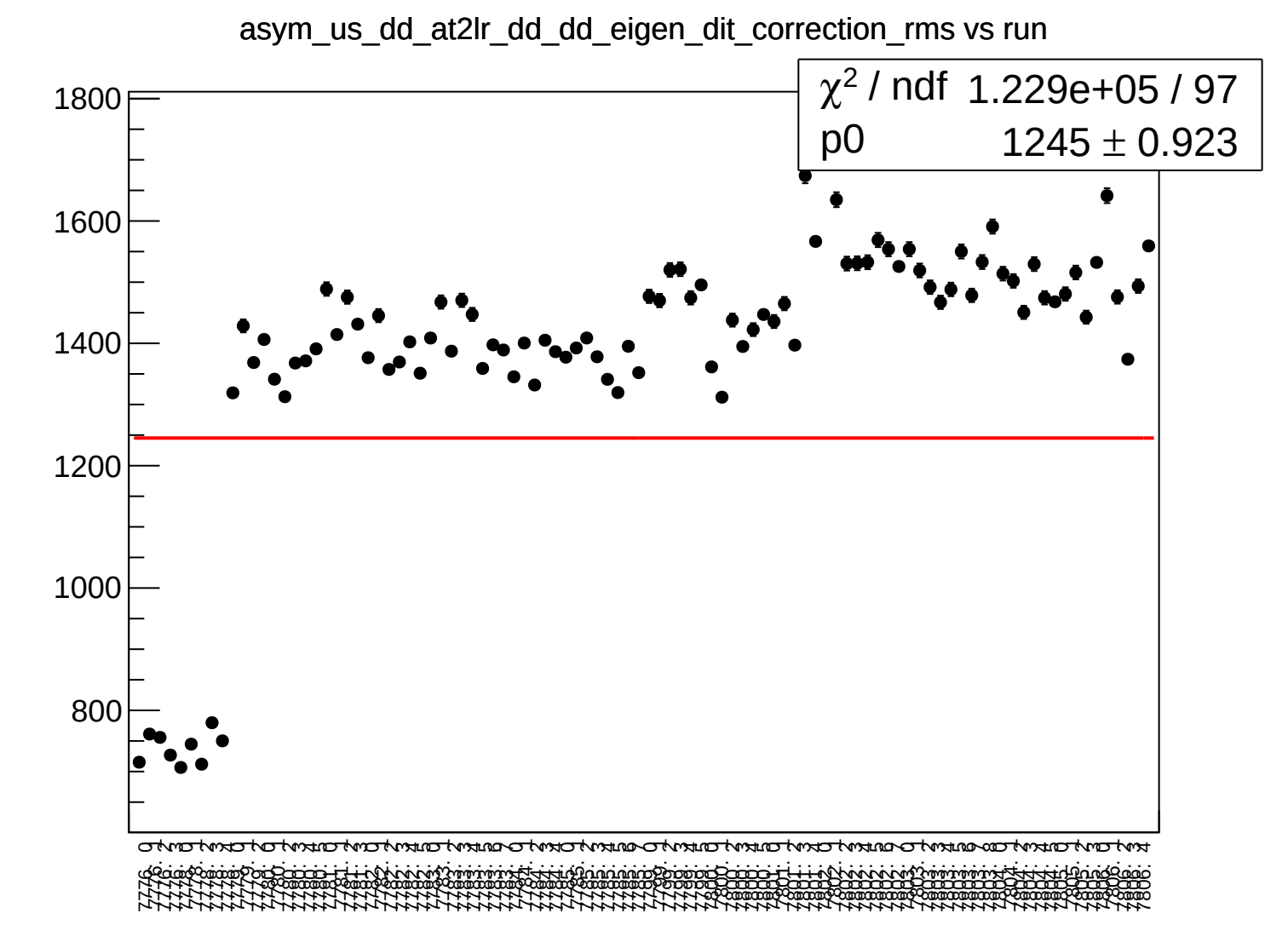

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 85.95 / 97
p0 213 ± 1693
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 224
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

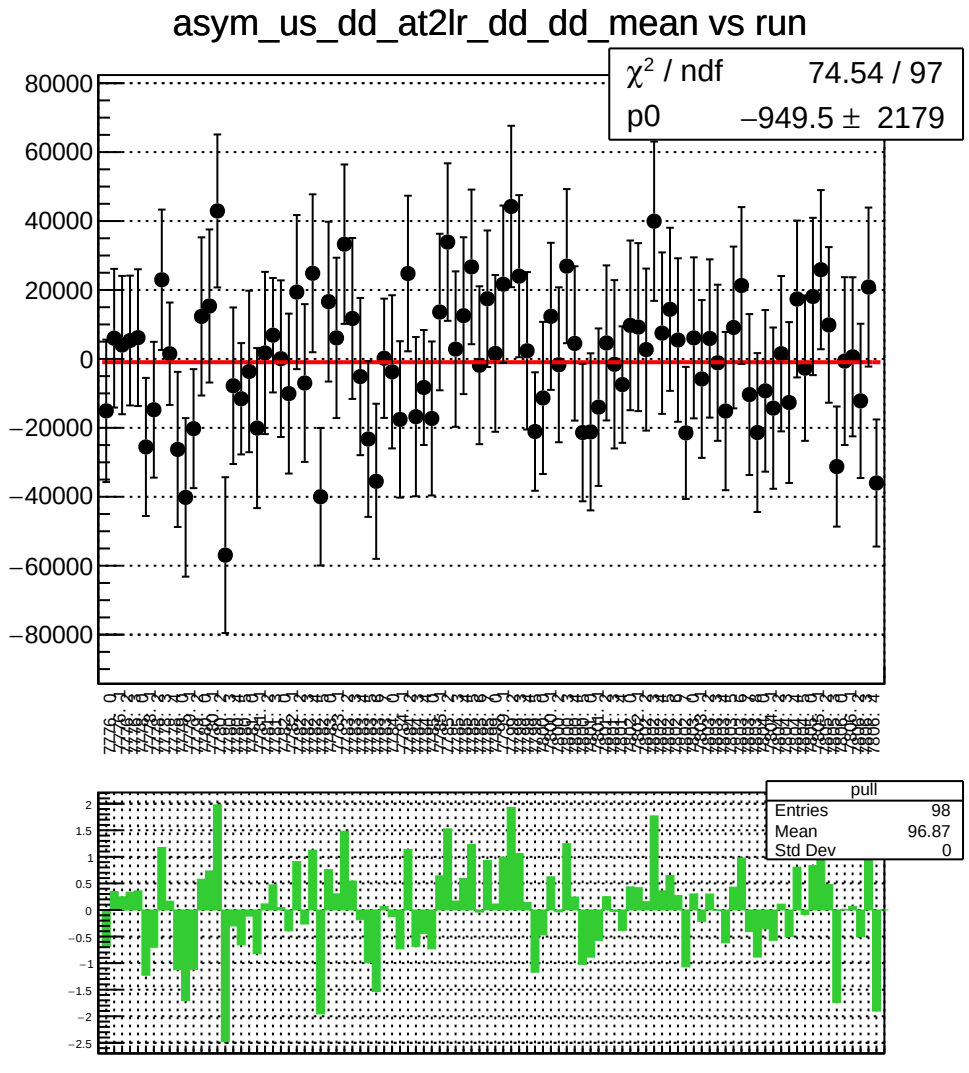

pull1D
Entries 98
Mean 0.03432
Std Dev 0.9359
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

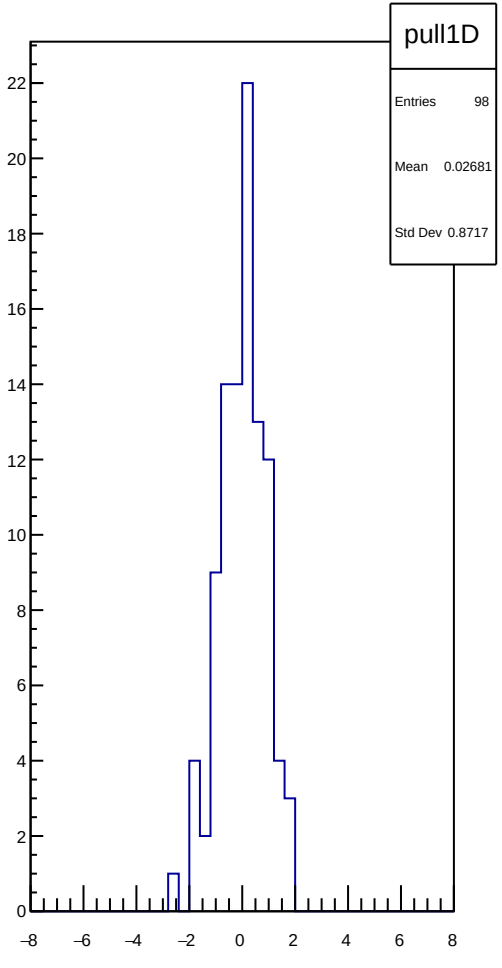

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 153.4 / 97
p0 1668 ± 1.197
1780
1760
1740
1720
1700
1680
1660
1640
1620

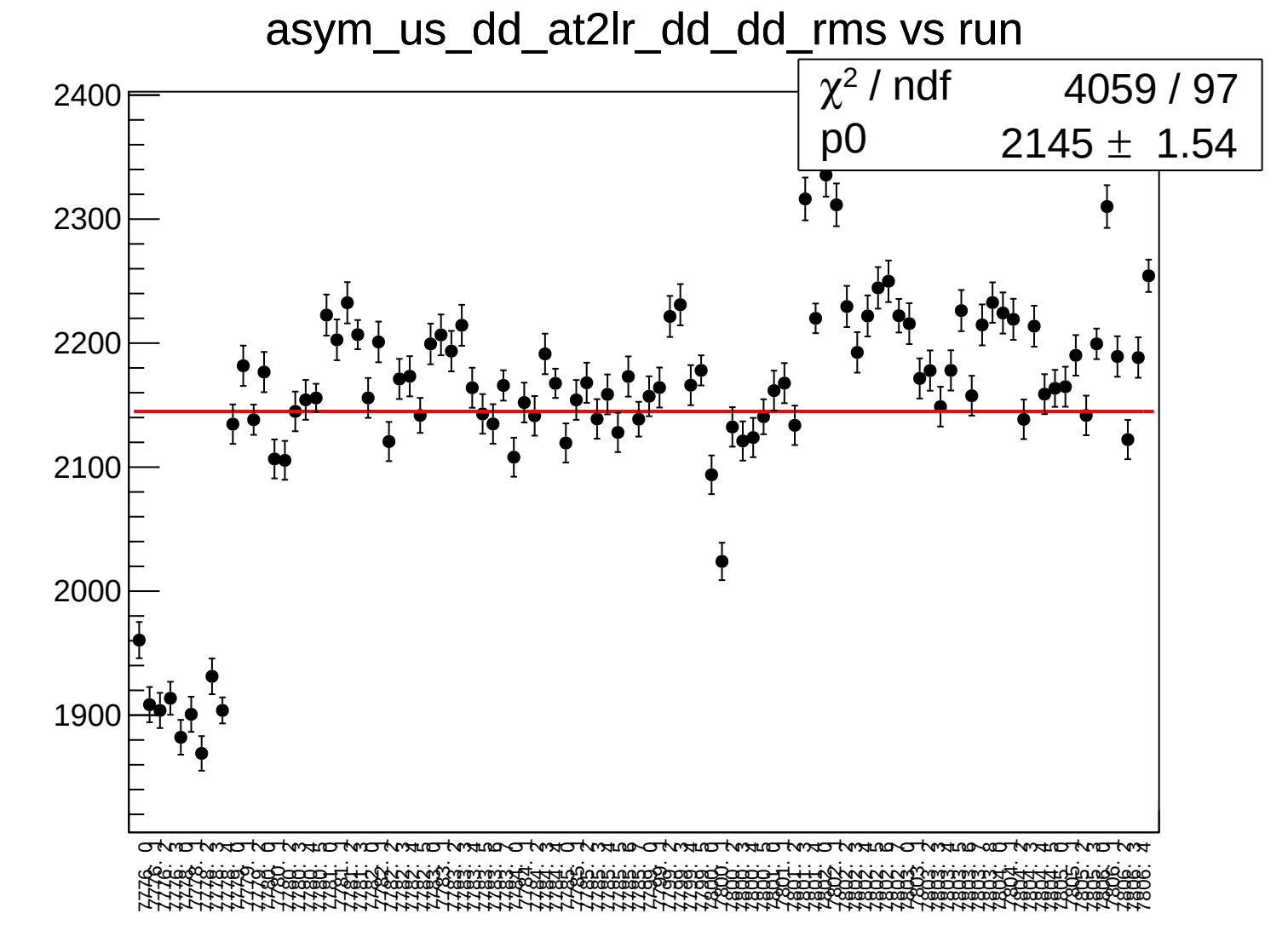

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.04 / 97
p0 831.8 ± 1305
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 411.5
Std Dev 0
2
1
0
−1
−2
−3

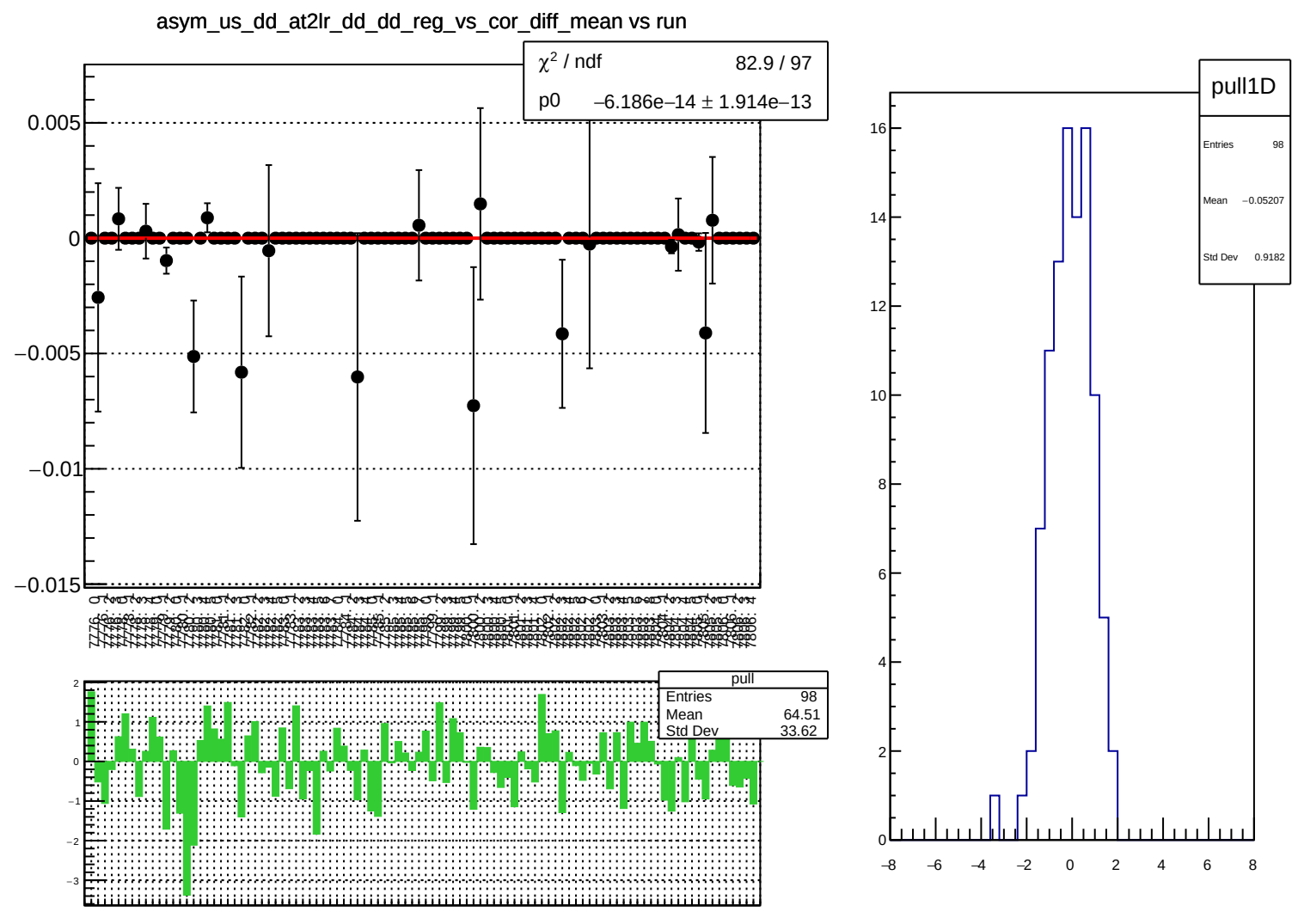

pull1D
Entries 98
Mean 0.01366
Std Dev 0.898
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

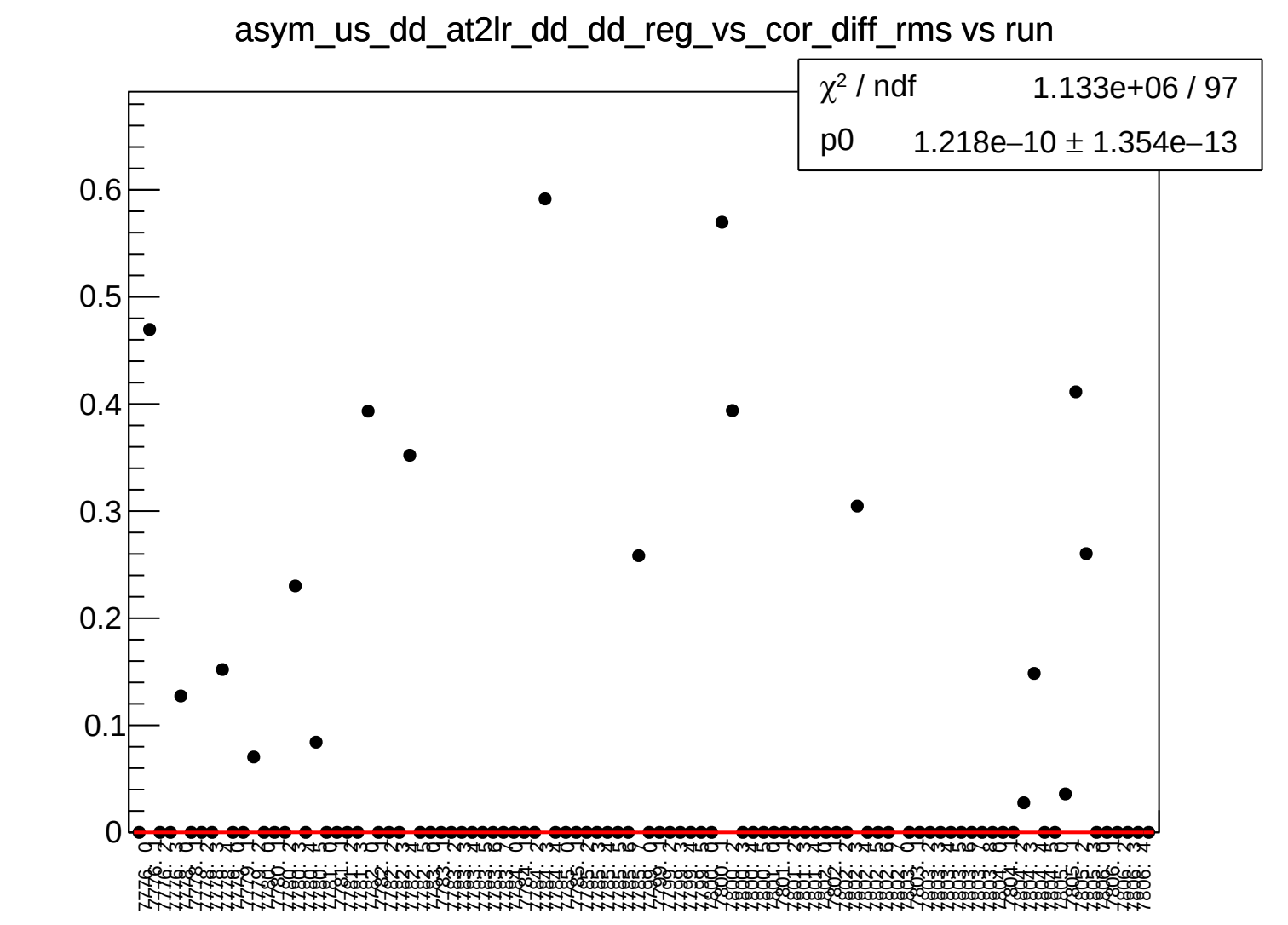

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.229e+05 / 97
p0 1245 ± 0.923
1800
1600
1400
1200
1000
800

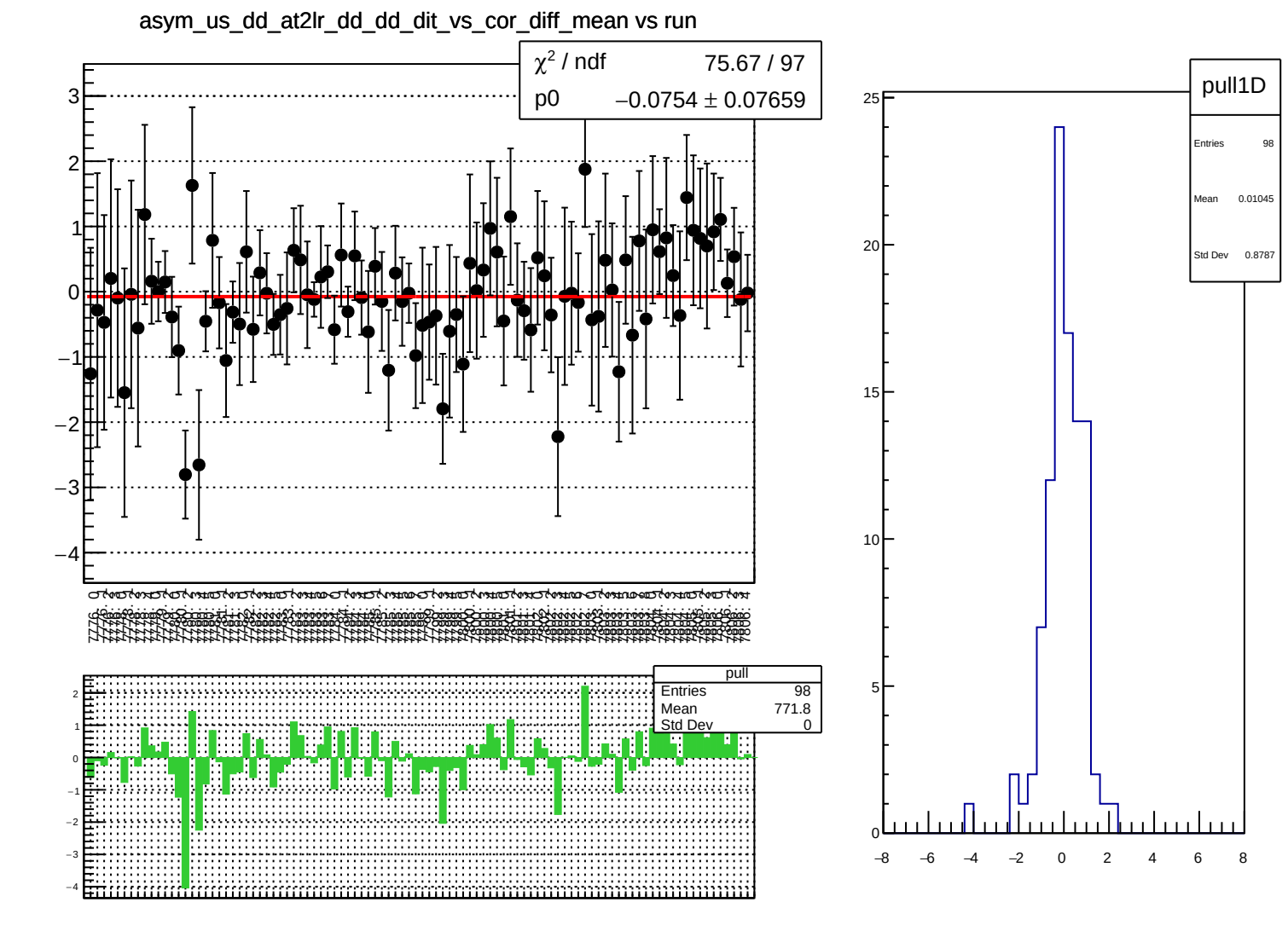

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 74.54 / 97
p0 −949.5 ± 2179
pull
Entries 98
Mean 96.87
Std Dev 0

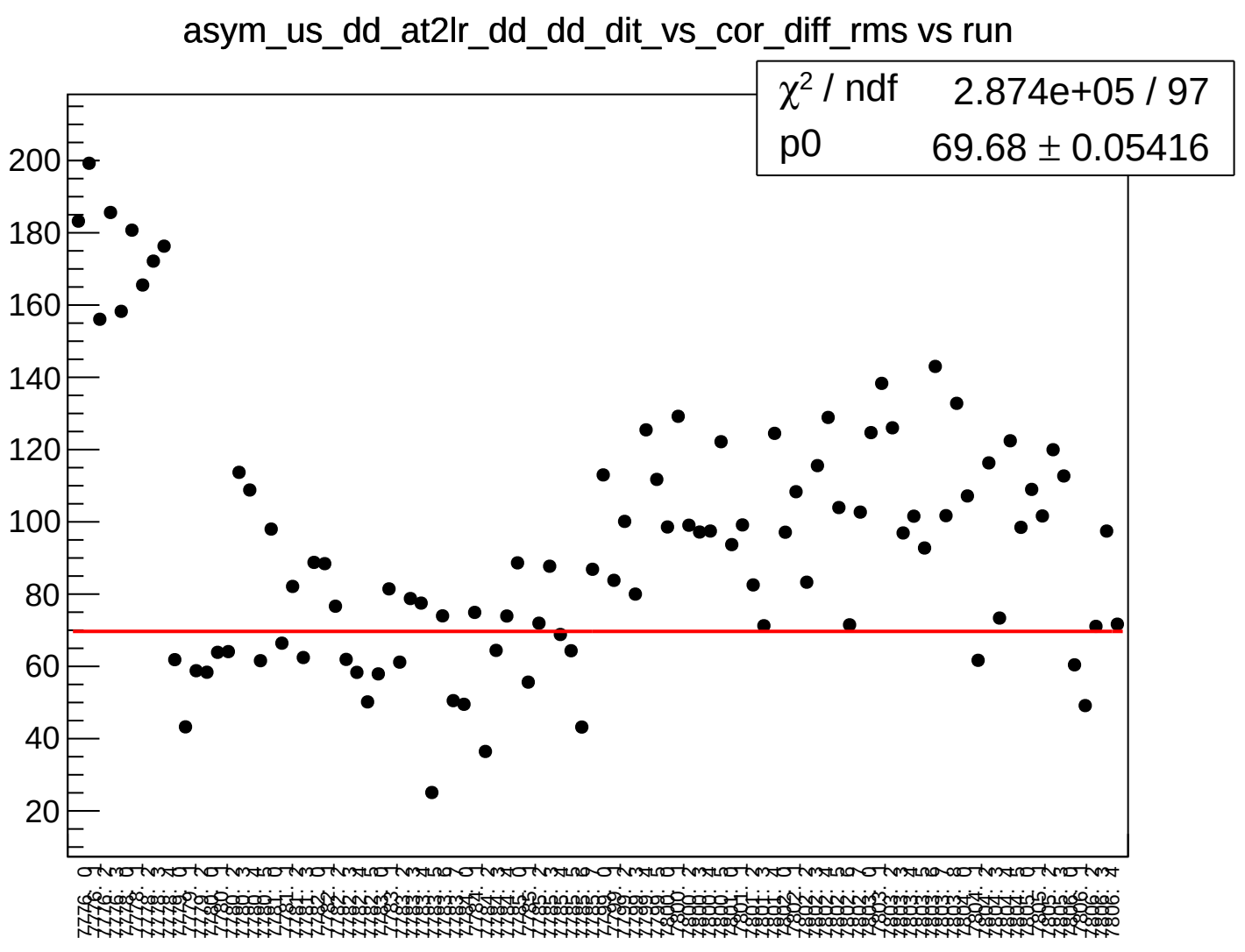

pull1D
Entries 98
Mean 0.02681
Std Dev 0.8717

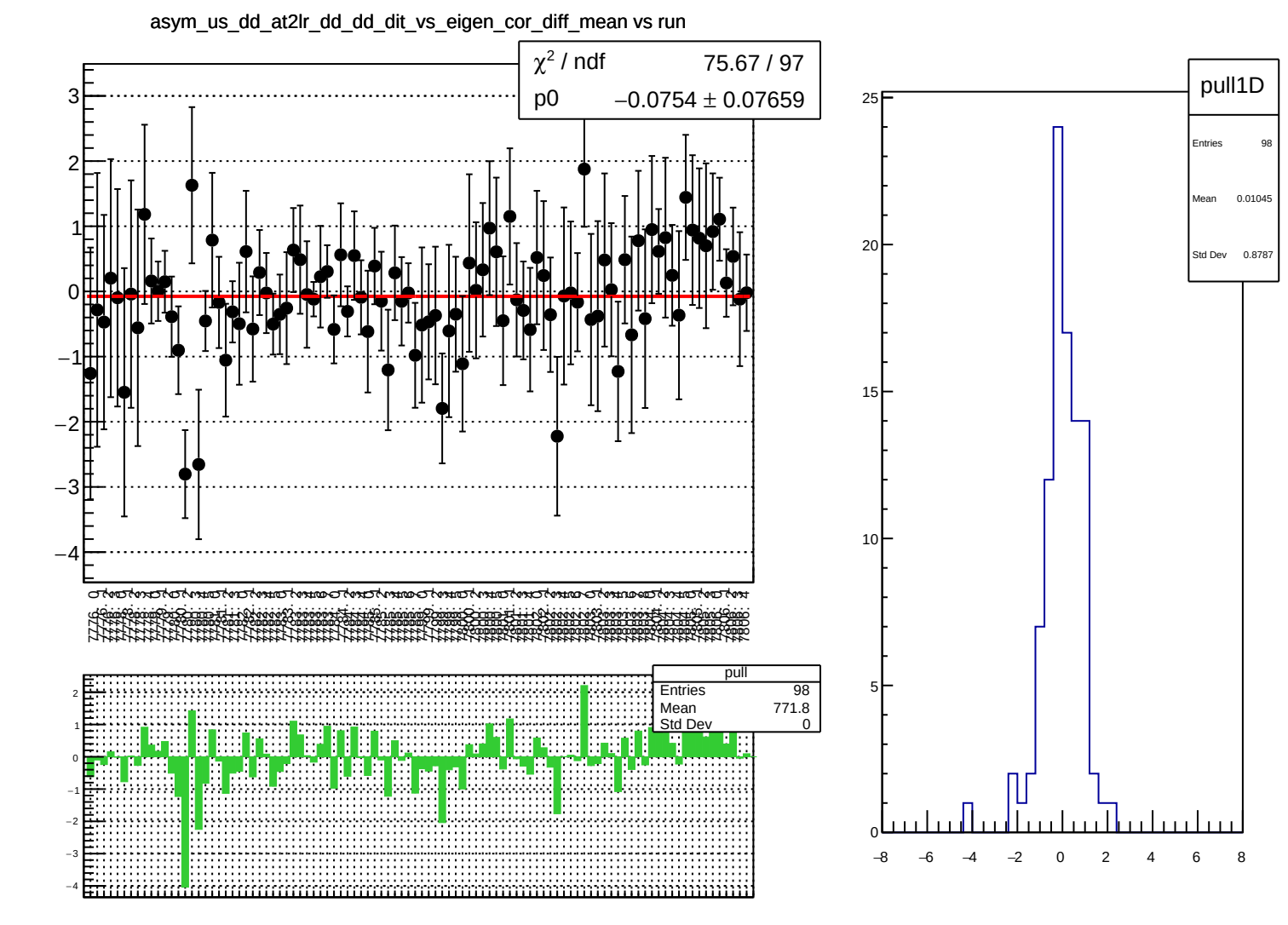

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 4059 / 97
p0 2145 ± 1.54
2400
2300
2200
2100
2000
1900

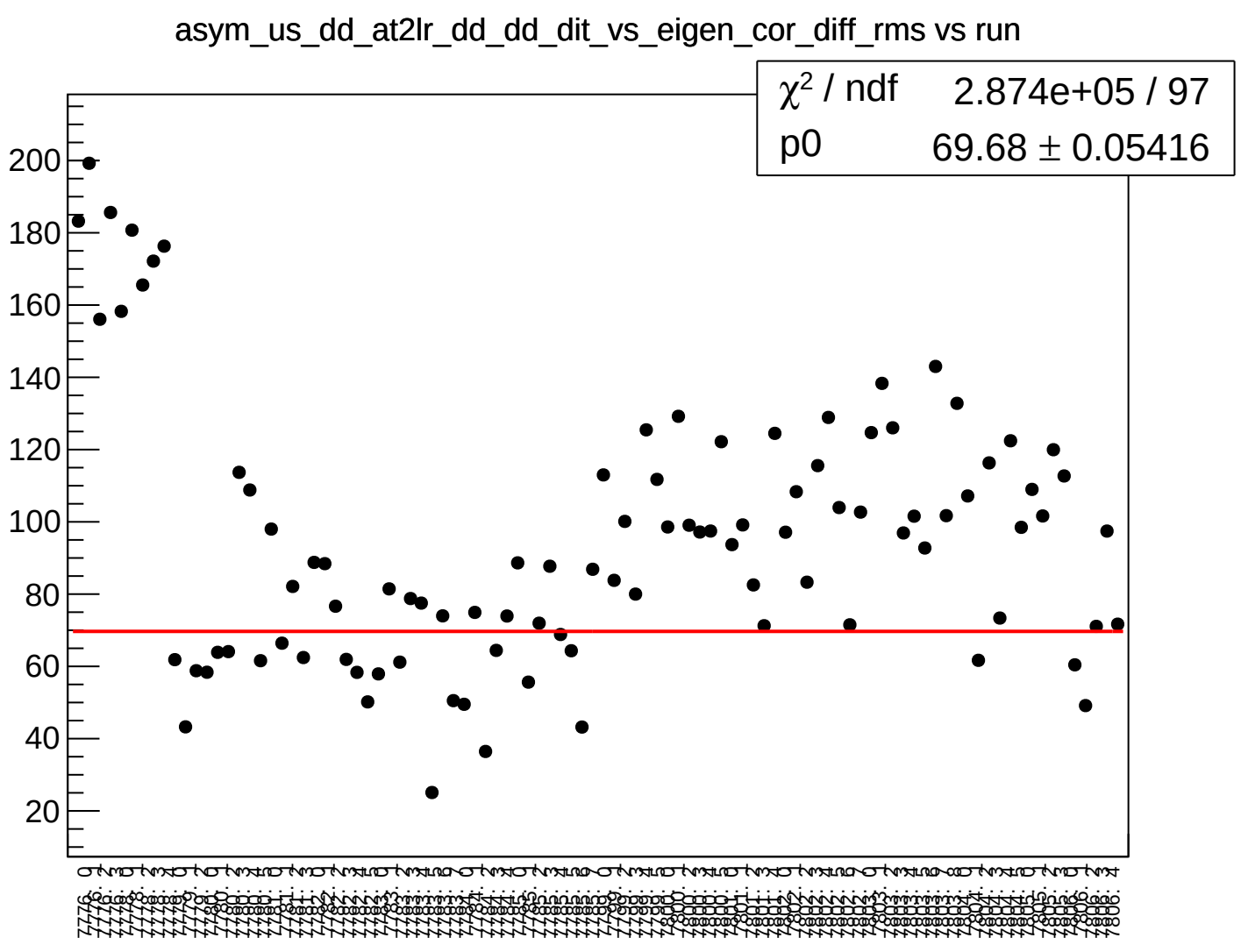

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.9 / 97
p0 −6.186e−14 ± 1.914e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 98
Mean 64.51
Std Dev 33.62
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean −0.05207
Std Dev 0.9182
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

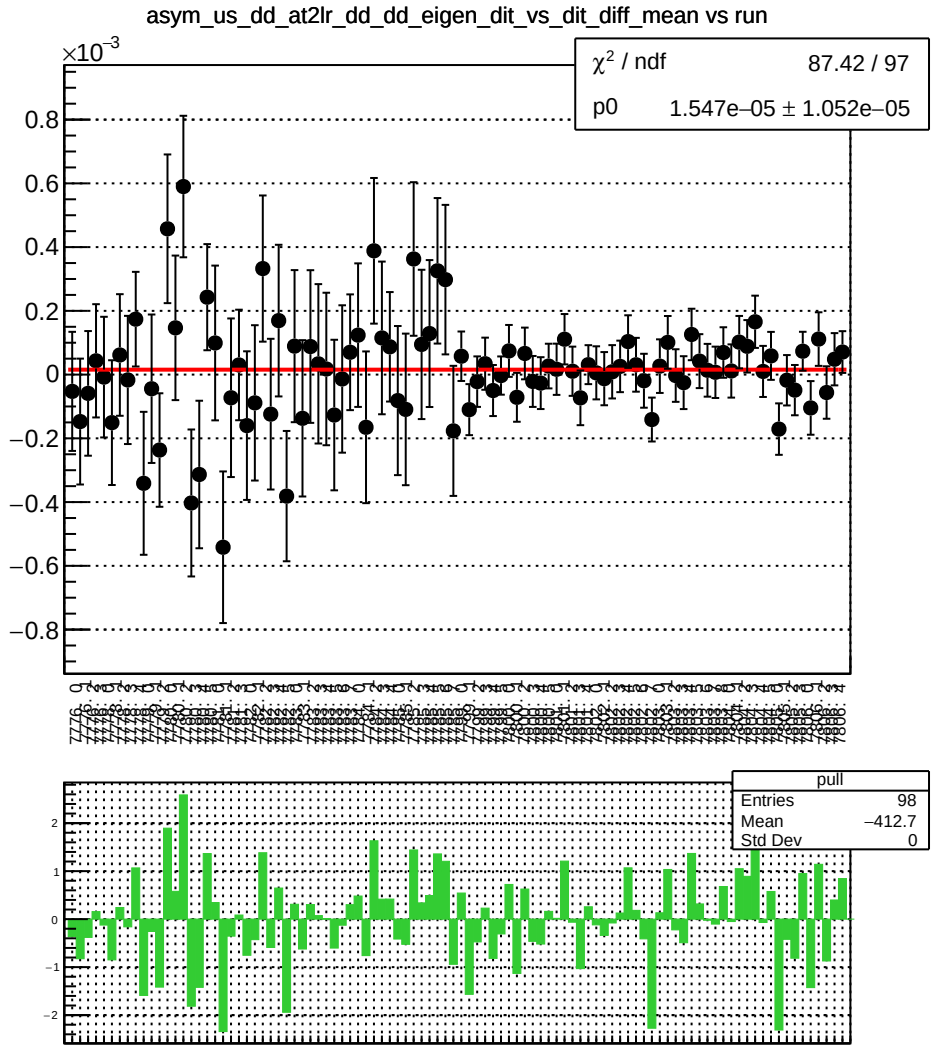

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.133e+06 / 97
p0 1.218e−10 ± 1.354e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

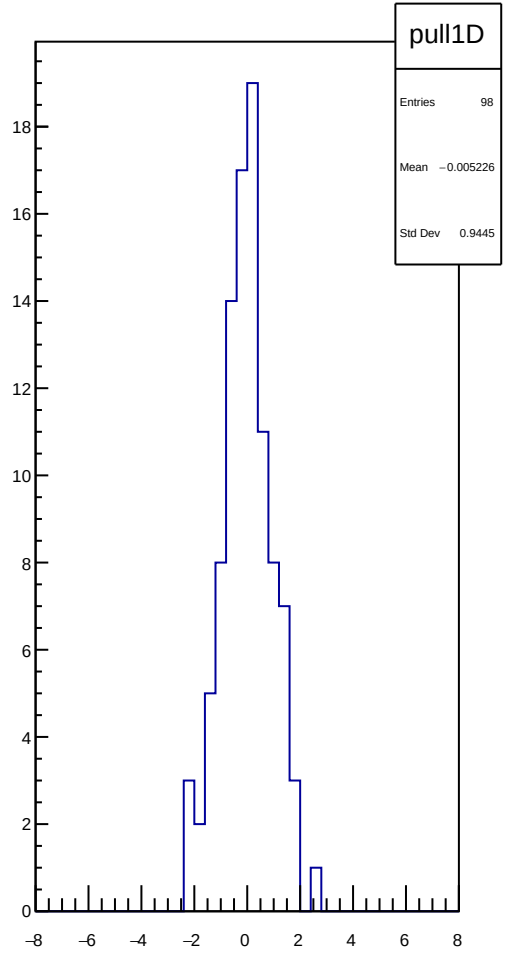

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.67 / 97
p0 −0.0754 ± 0.07659
pull
Entries 98
Mean 771.8
Std Dev 0
pull1D
Entries 98
Mean 0.01045
Std Dev 0.8787

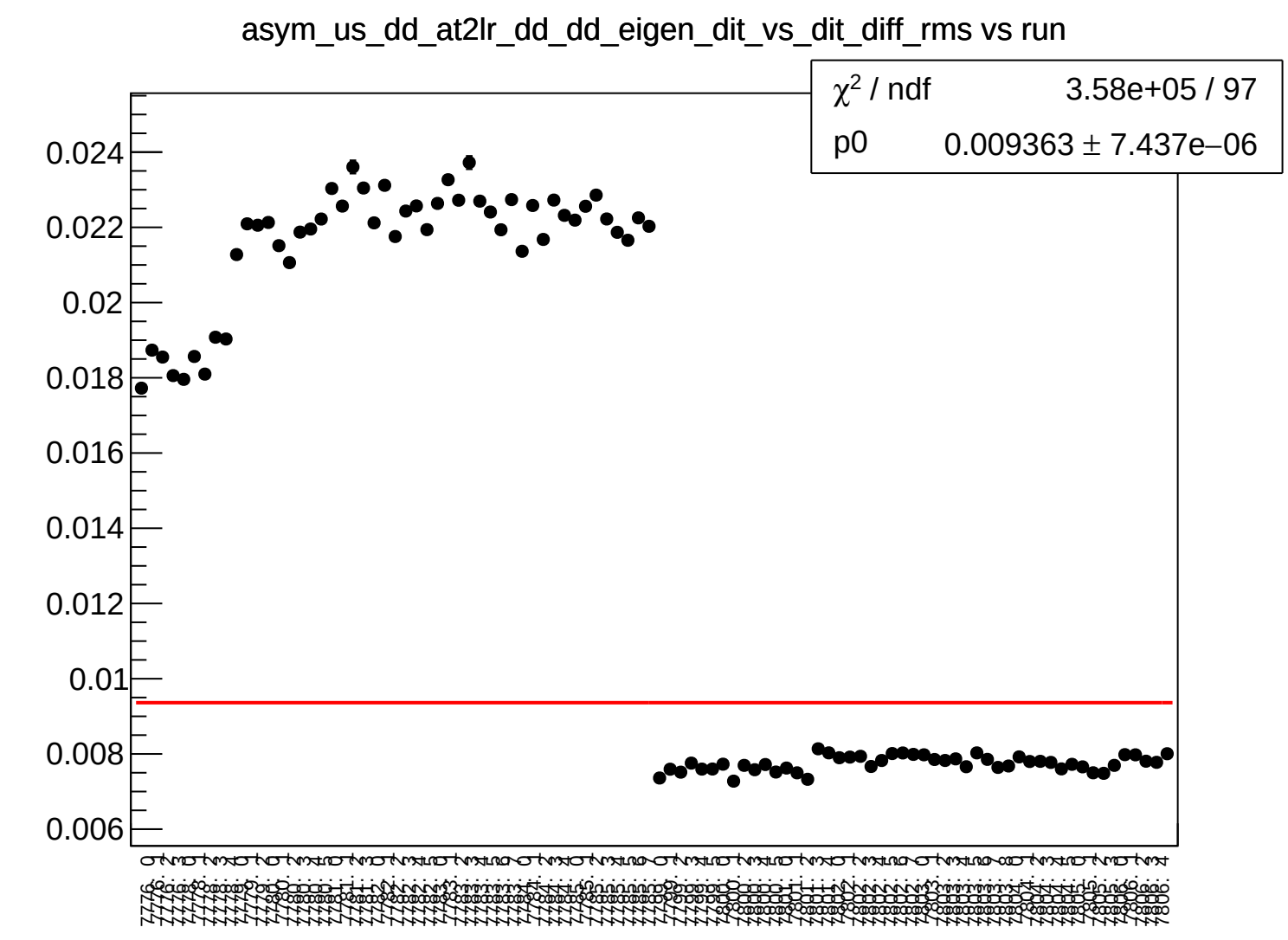

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.874e+05 / 97
p0 69.68 ± 0.05416
200
180
160
140
120
100
80
60
40
20

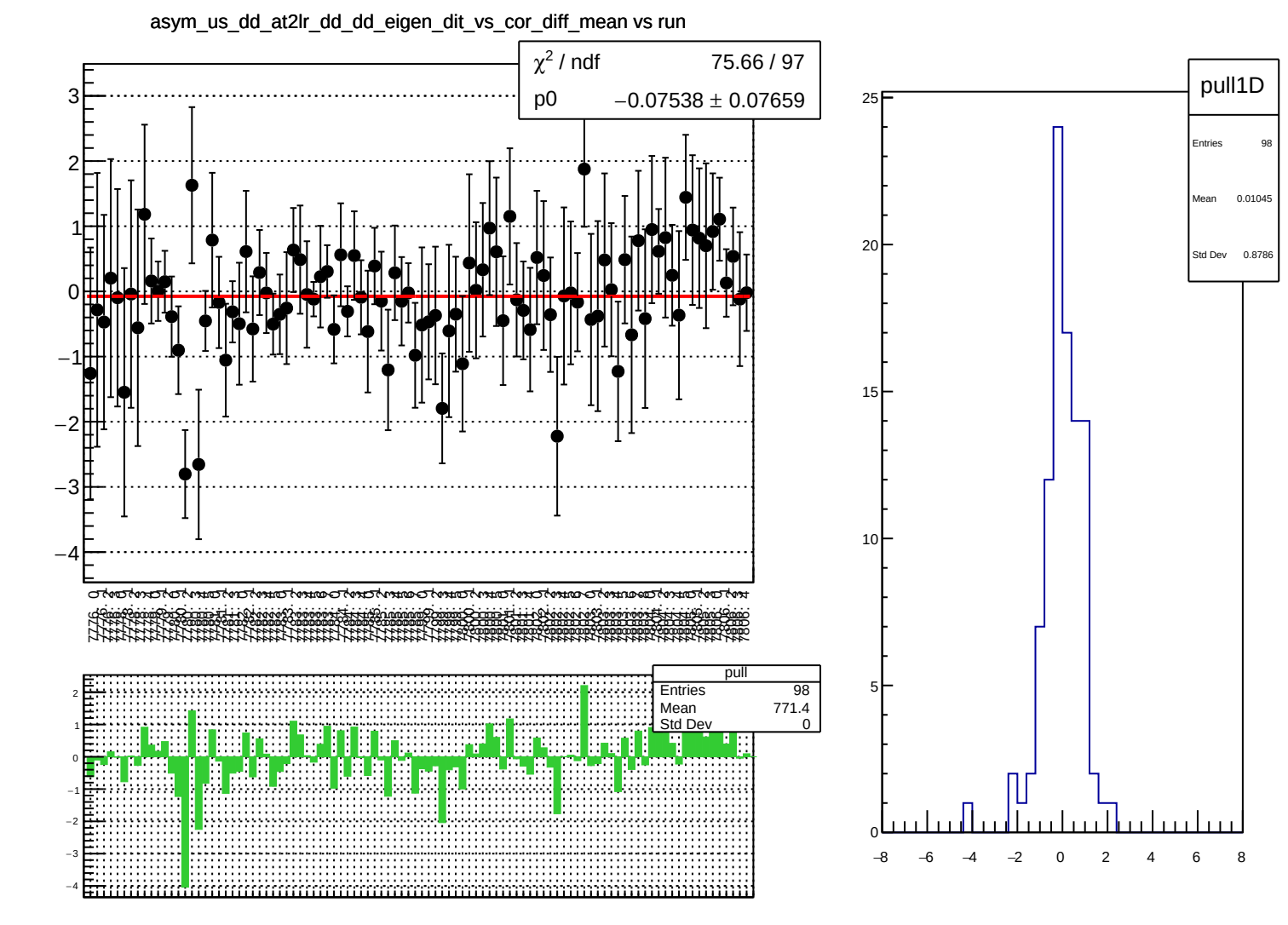

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.67 / 97
p0 −0.0754 ± 0.07659
pull
Entries 98
Mean 771.8
Std Dev 0
pull1D
Entries 98
Mean 0.01045
Std Dev 0.8787

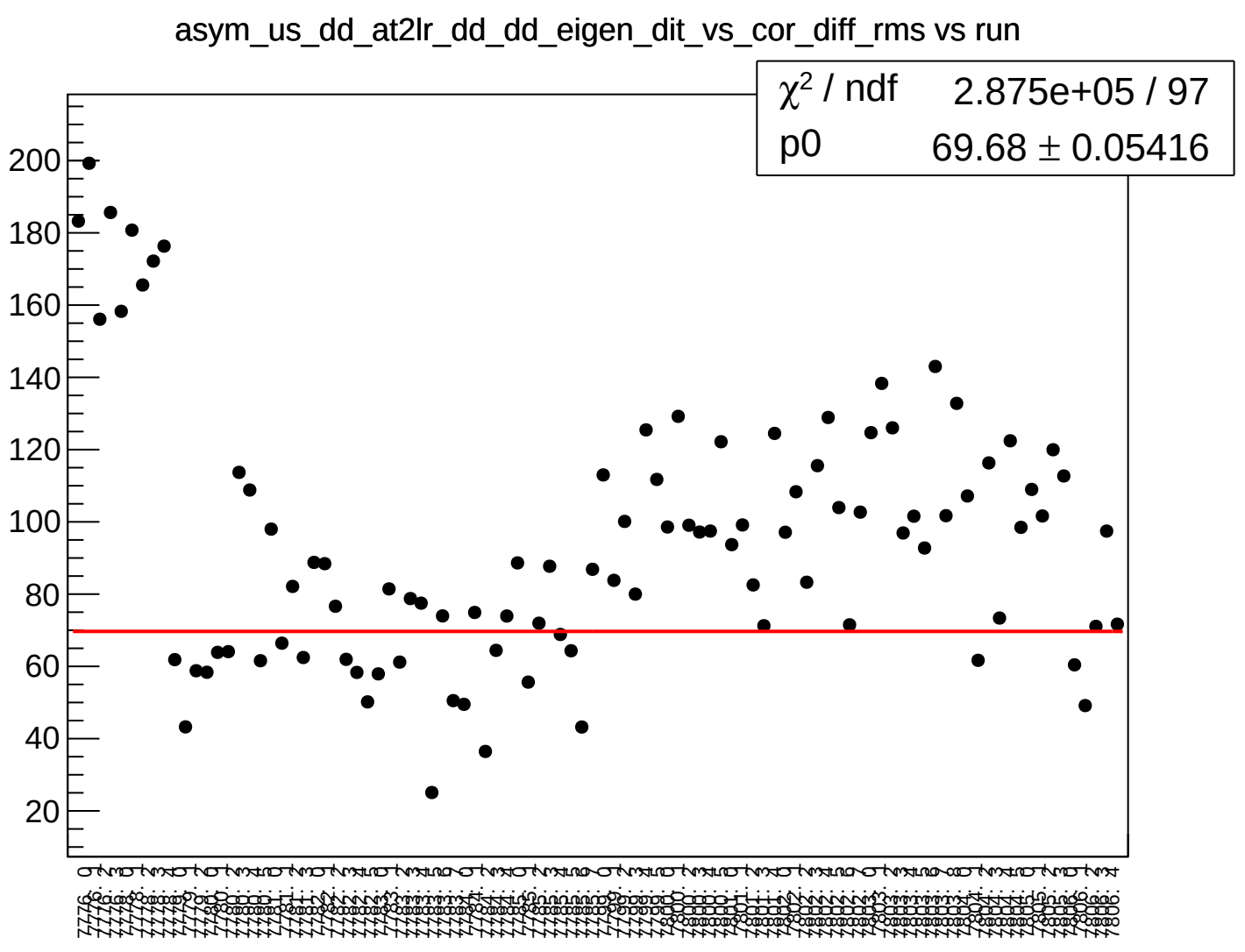

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.874e+05 / 97
p0 69.68 ± 0.05416
200
180
160
140
120
100
80
60
40
20

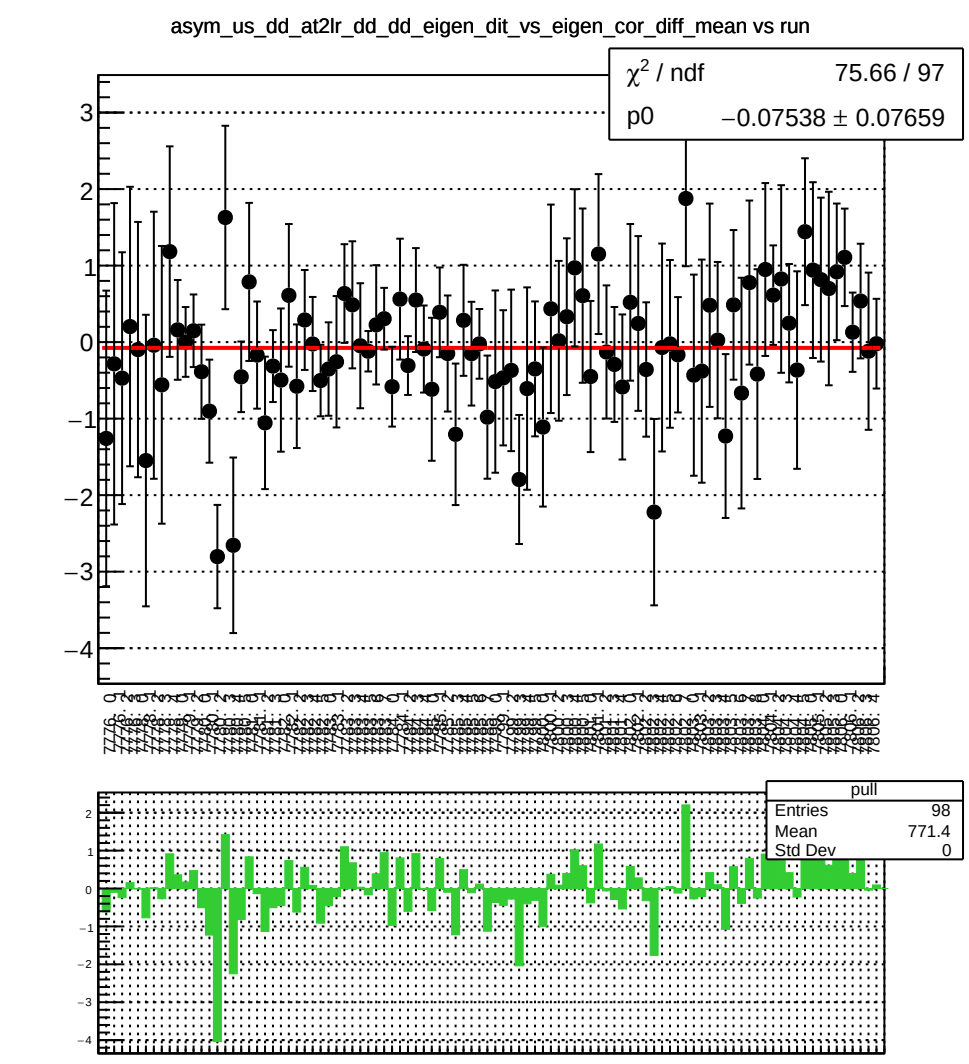

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.42 / 97
p0 1.547e−05 ± 1.052e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 98
Mean −412.7
Std Dev 0
2
1
0
−1
−2

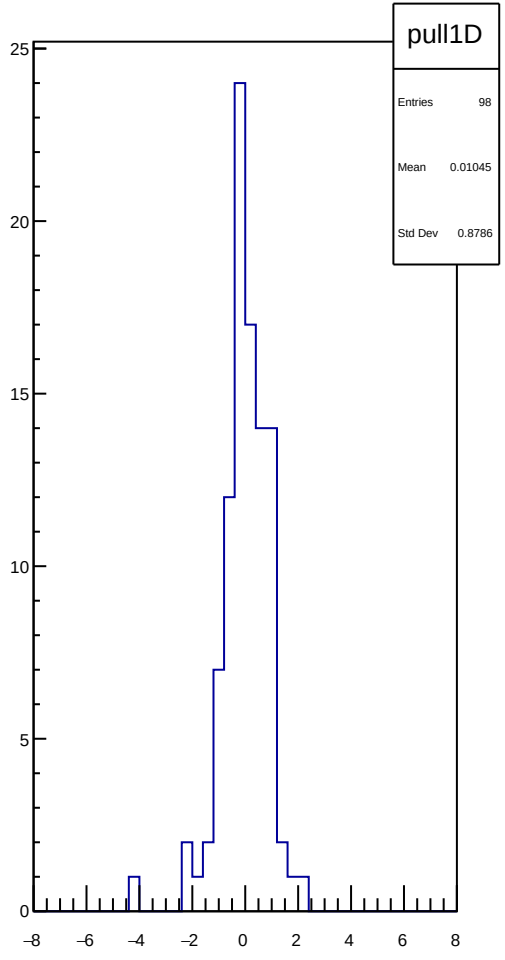

pull1D
Entries 98
Mean −0.005226
Std Dev 0.9445
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

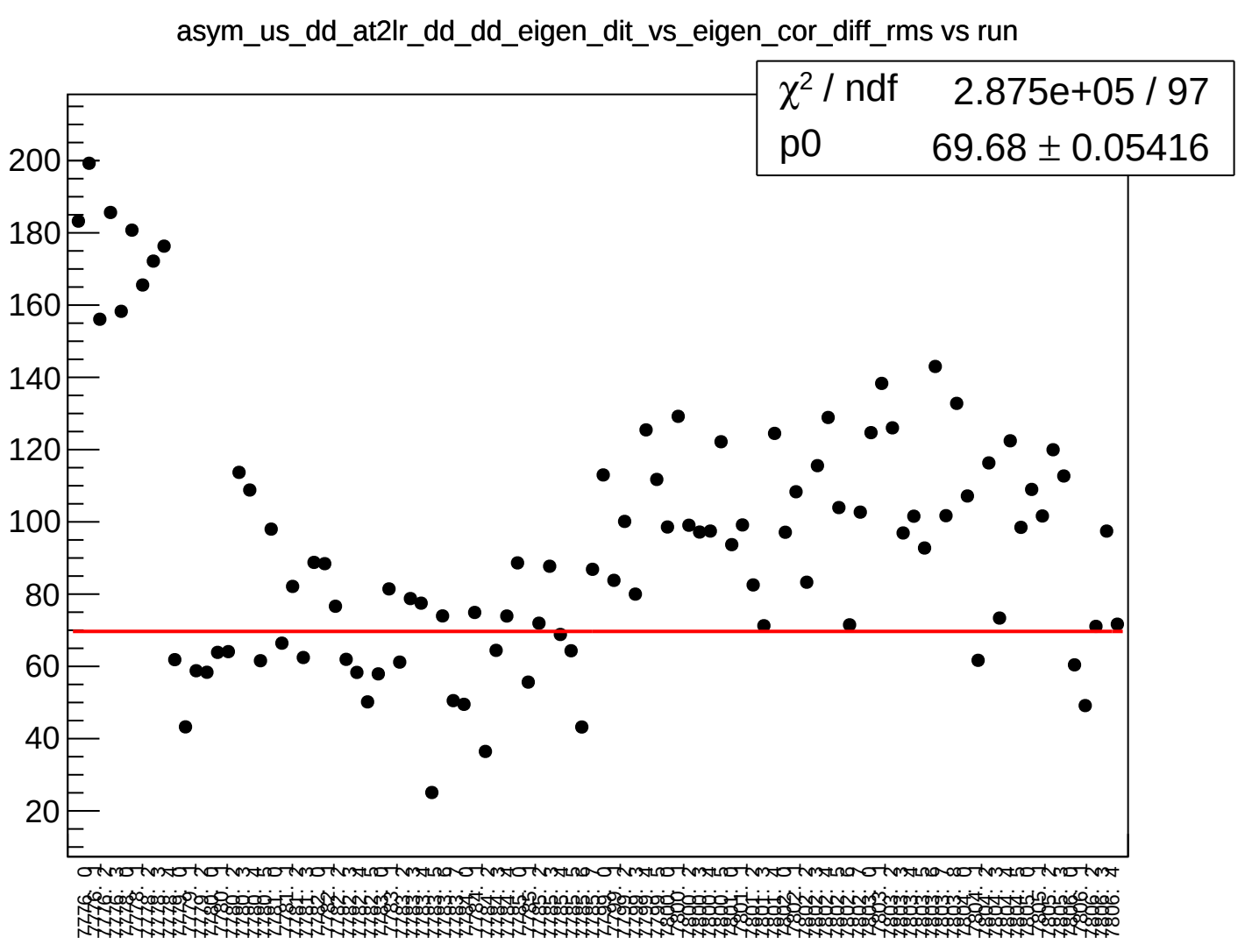

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.58e+05 / 97
p0 0.009363 ± 7.437e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

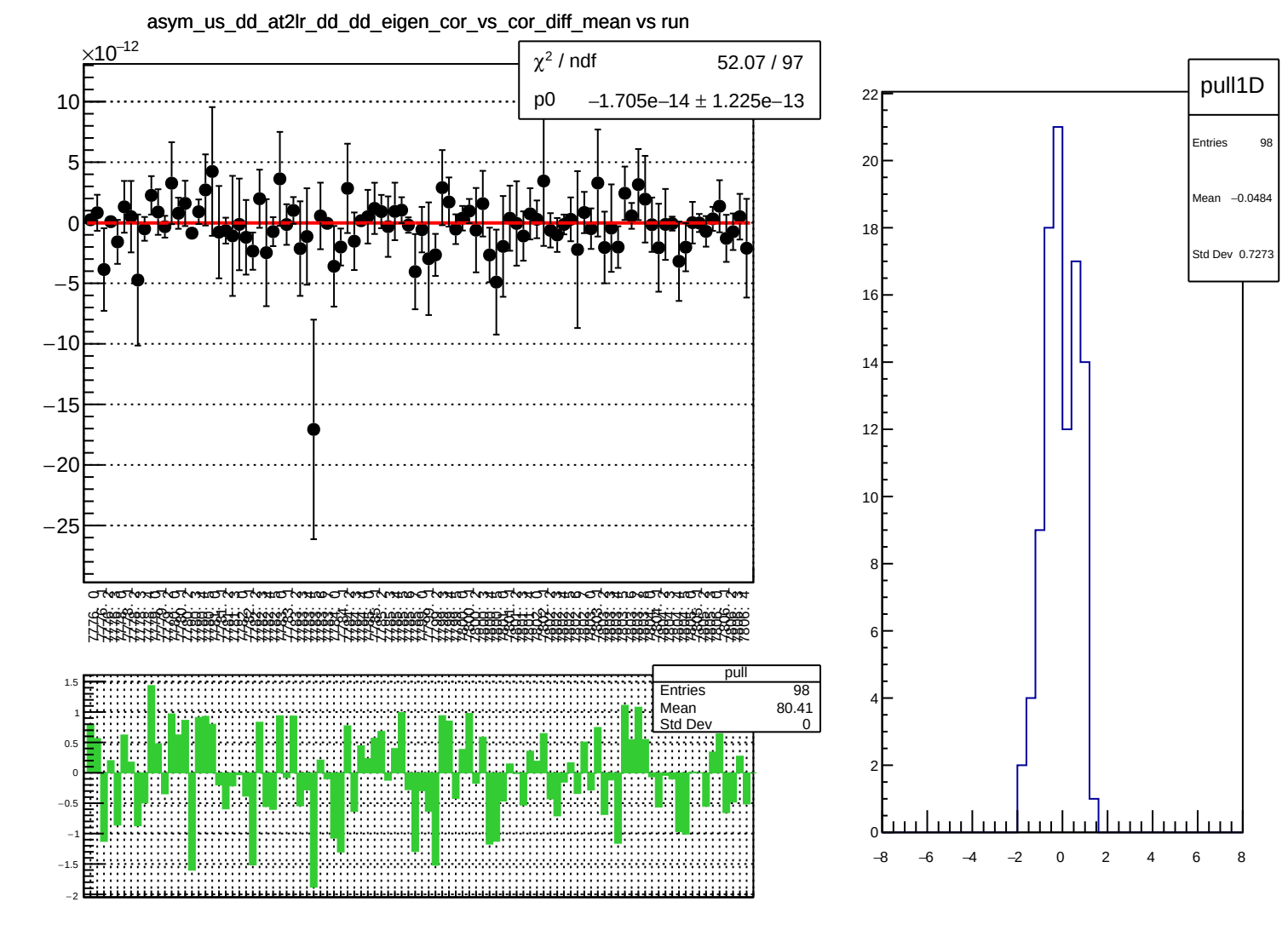

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.66 / 97
p0 −0.07538 ± 0.07659
pull
Entries 98
Mean 771.4
Std Dev 0
pull1D
Entries 98
Mean 0.01045
Std Dev 0.8786

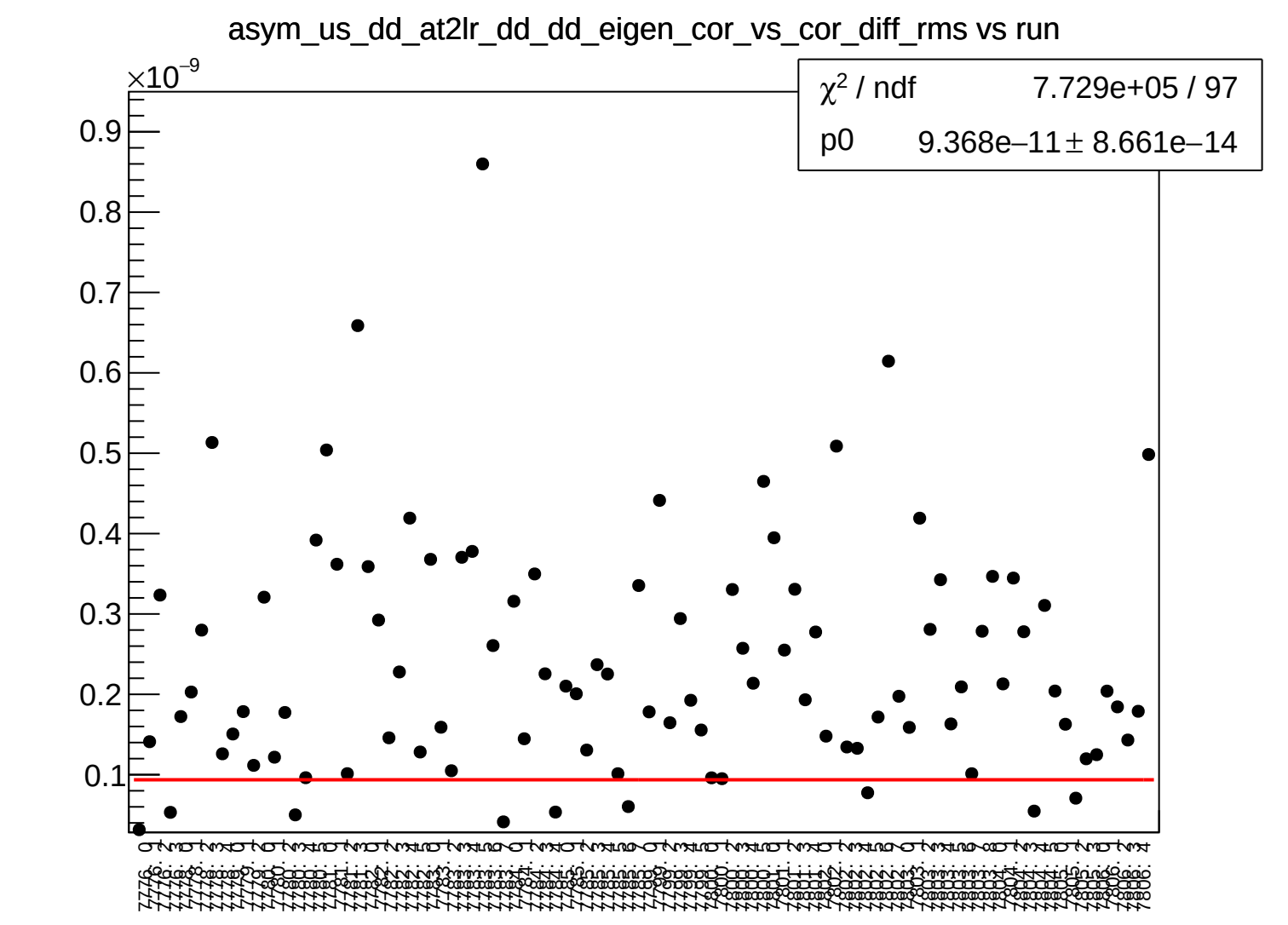

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.875e+05 / 97
p0 69.68 ± 0.05416
200
180
160
140
120
100
80
60
40
20

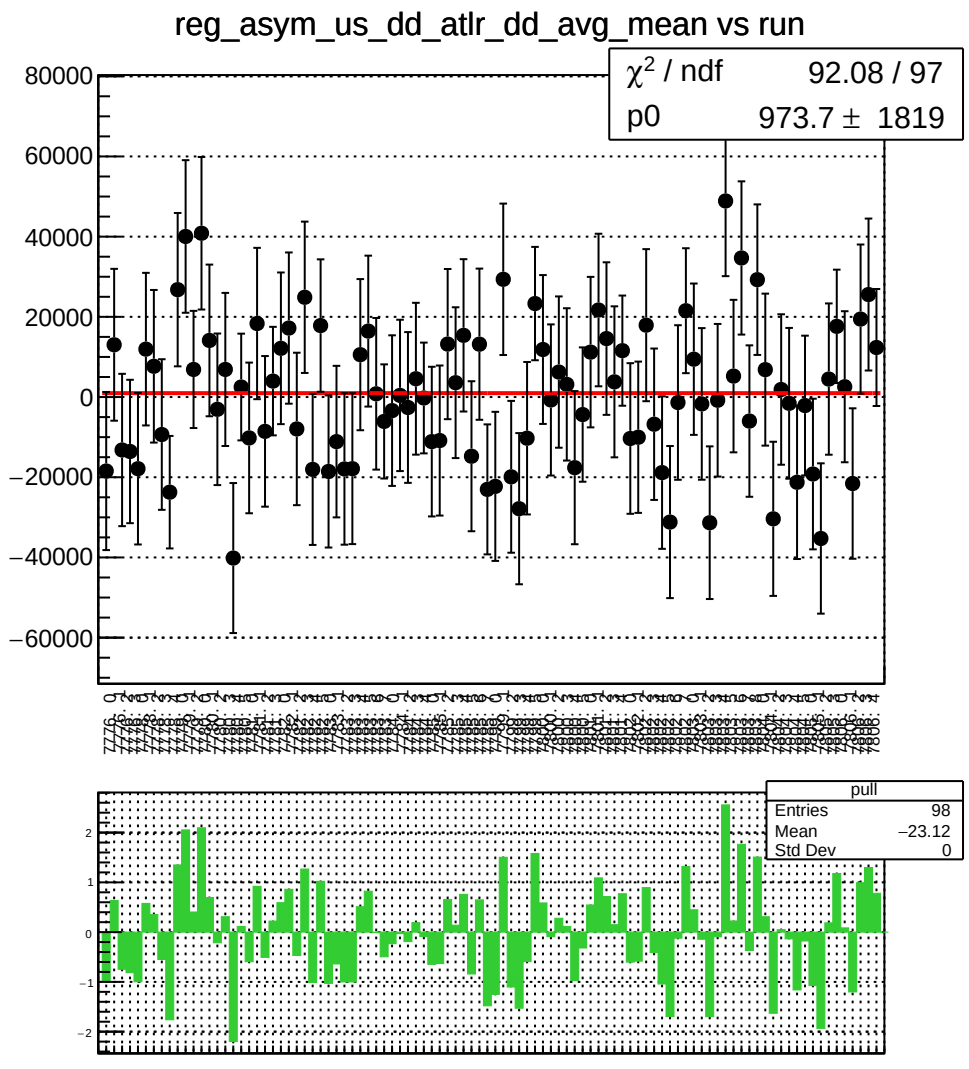

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.66 / 97
p0 −0.07538 ± 0.07659
pull
Entries 98
Mean 771.4
Std Dev 0

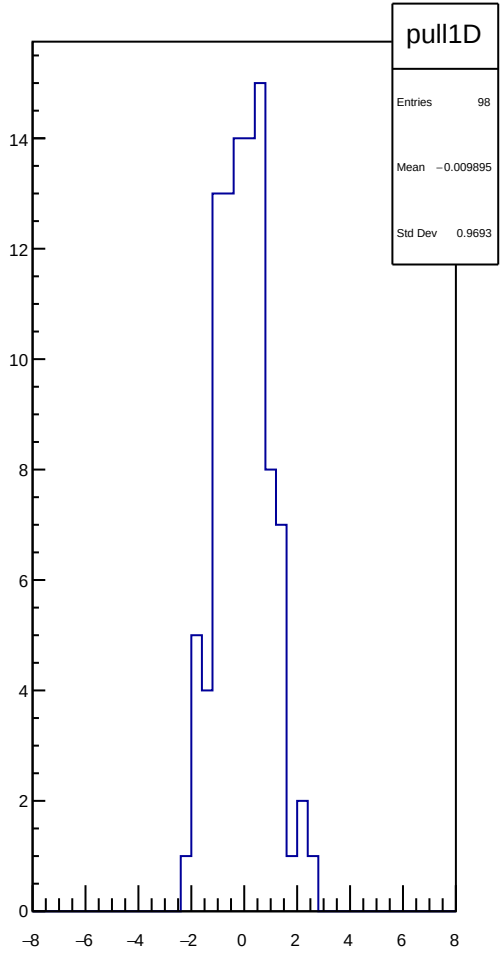

pull1D
Entries 98
Mean 0.01045
Std Dev 0.8786

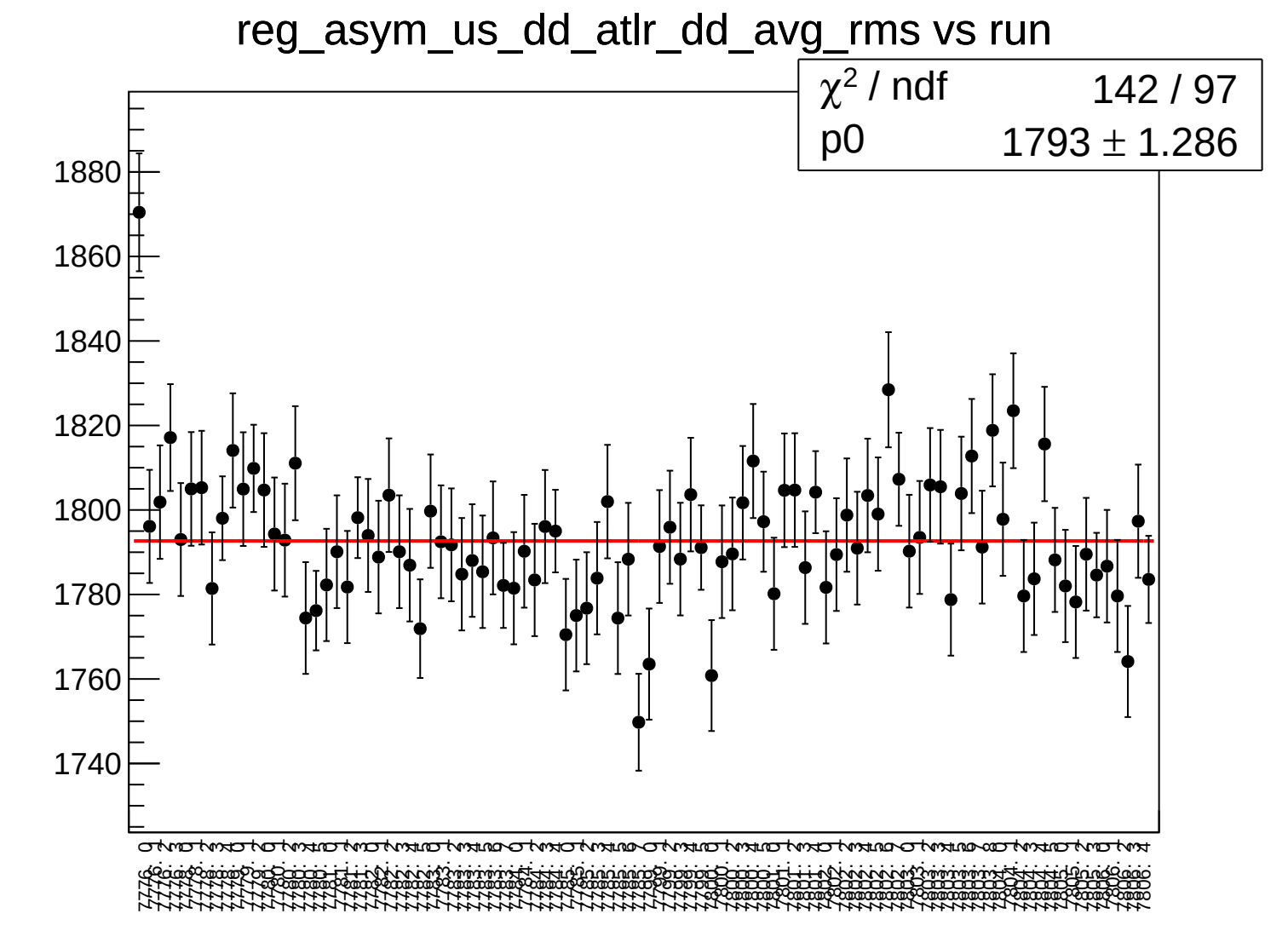

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.875e+05 / 97
p0 69.68 ± 0.05416
200
180
160
140
120
100
80
60
40
20

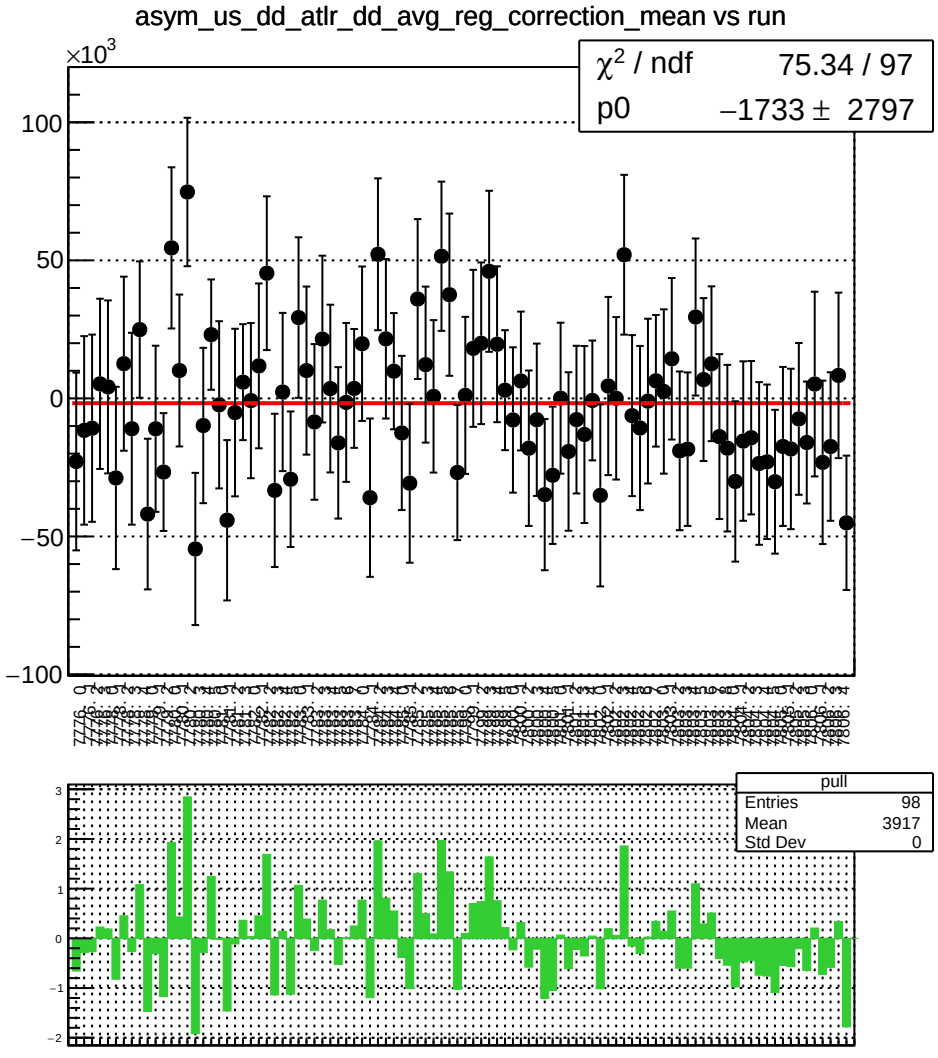

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 52.07 / 97
p0 −1.705e−14 ± 1.225e−13
pull
Entries 98
Mean 80.41
Std Dev 0
pull1D
Entries 98
Mean −0.0484
Std Dev 0.7273

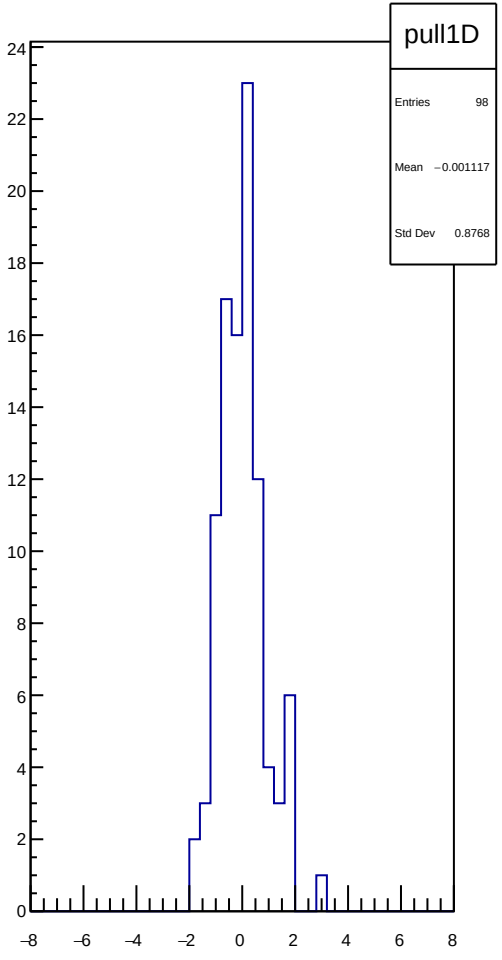

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.729e+05 / 97
p0 9.368e−11 ± 8.661e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

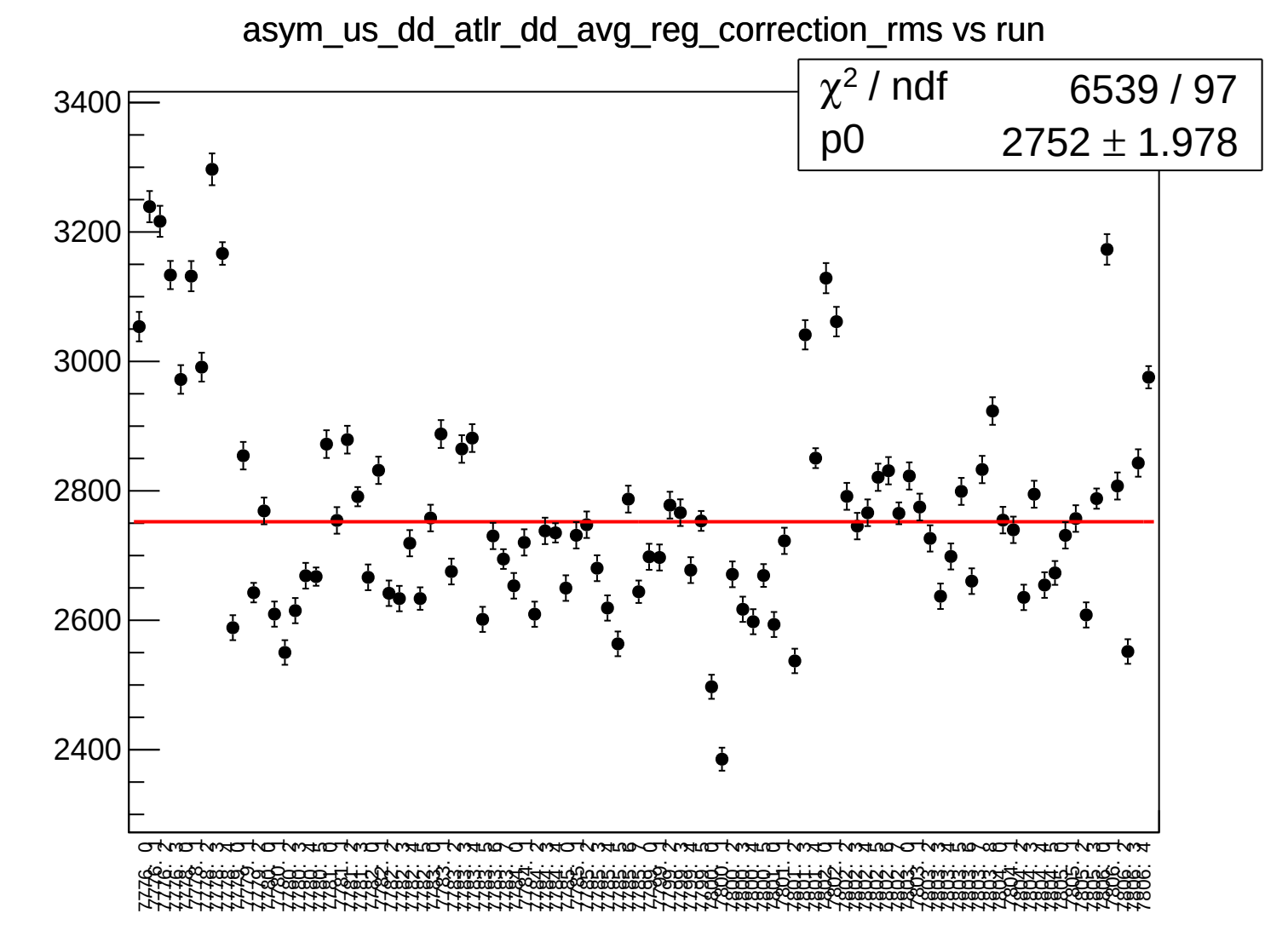

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 92.08 / 97
p0 973.7 ± 1819
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −23.12
Std Dev 0
2
1
0
−1
−2

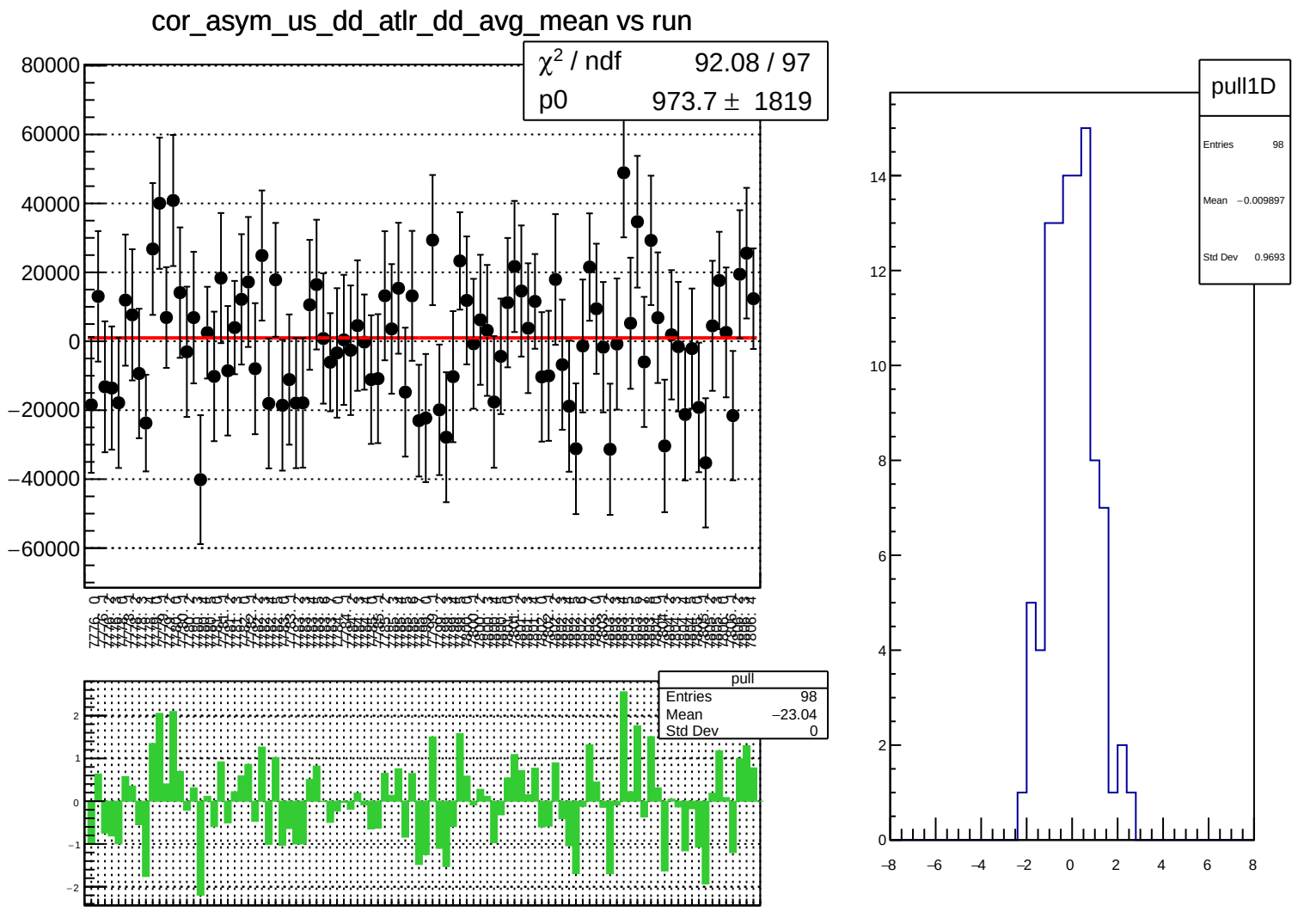

pull1D
Entries 98
Mean −0.009895
Std Dev 0.9693
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

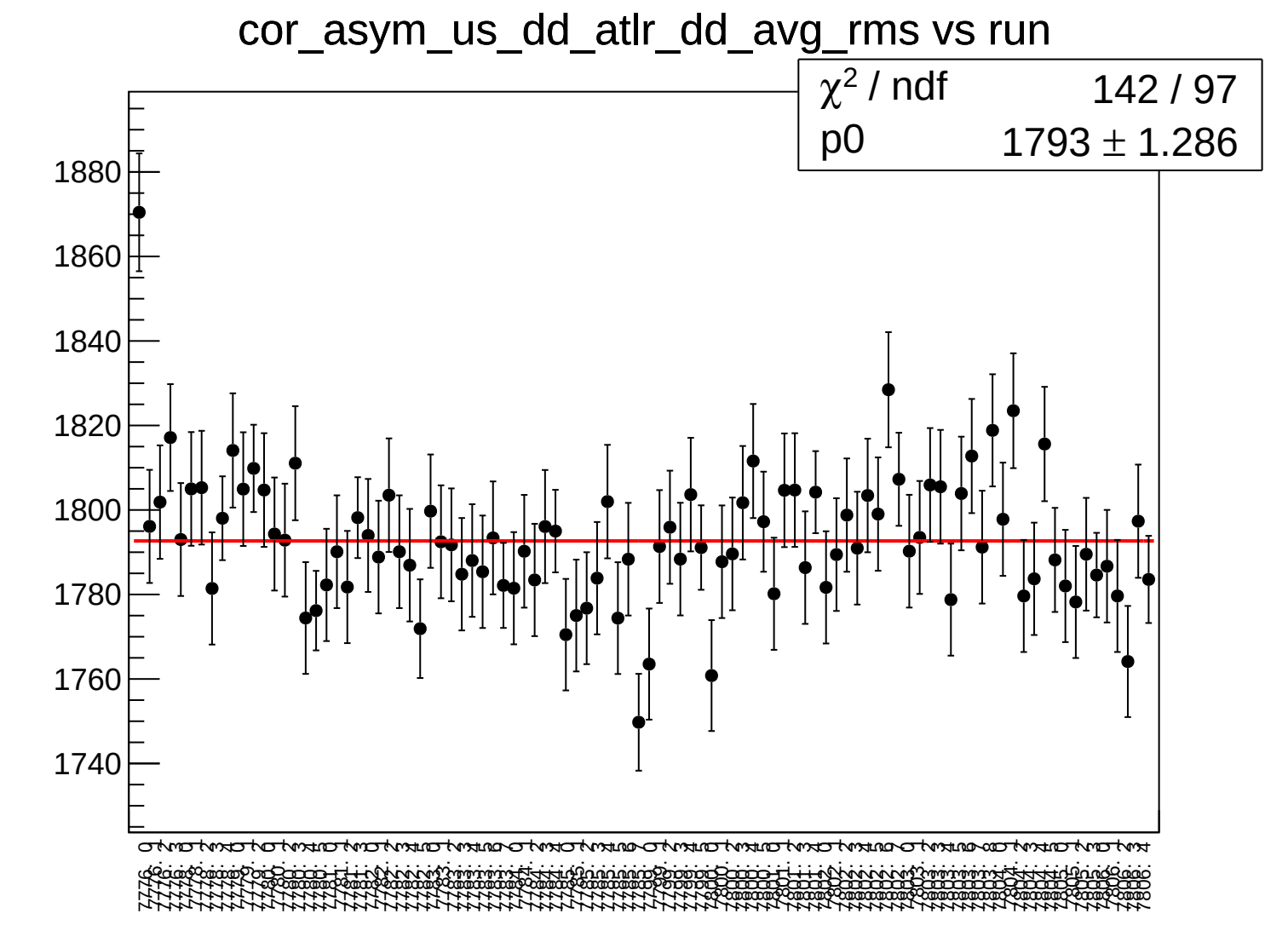

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 142 / 97
p0 1793 ± 1.286
1880
1860
1840
1820
1800
1780
1760
1740

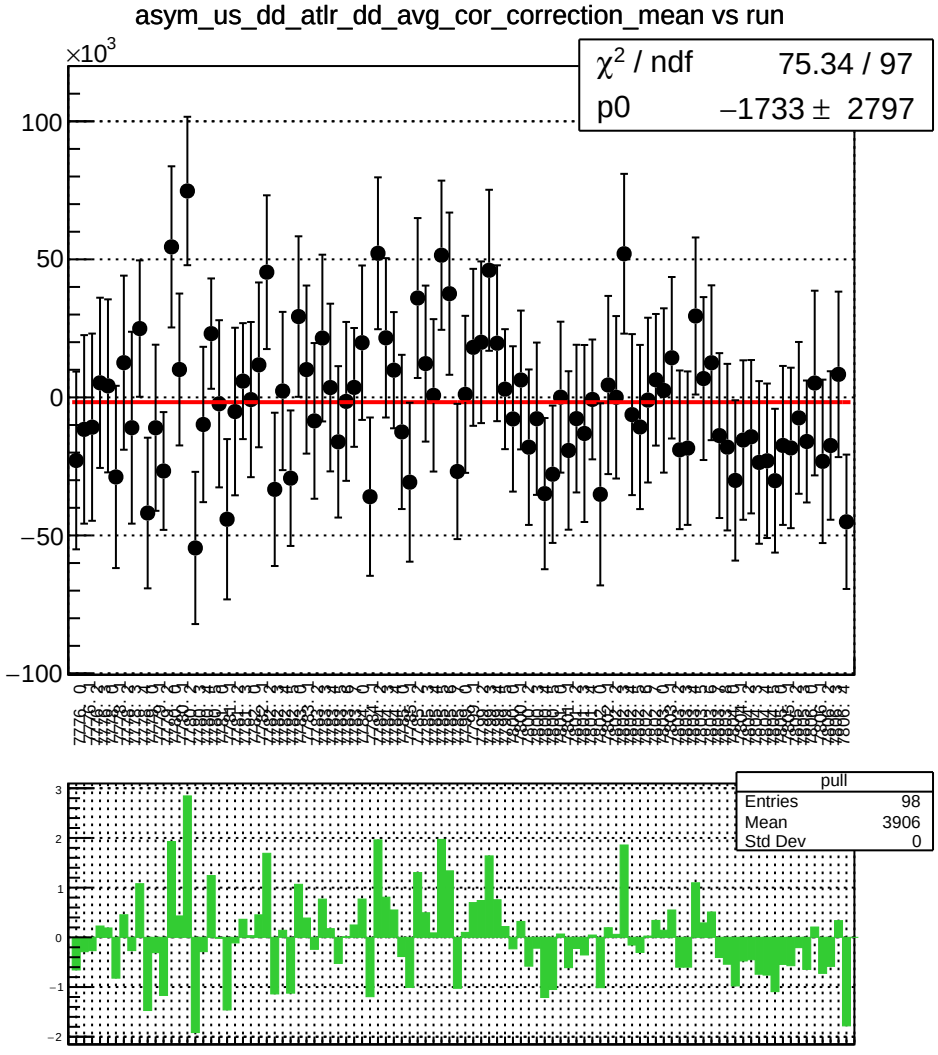

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 75.34 / 97
p0 −1733 ± 2797
100
50
0
−50
−100
pull
Entries 98
Mean 3917
Std Dev 0
3
2
1
0
−1
−2

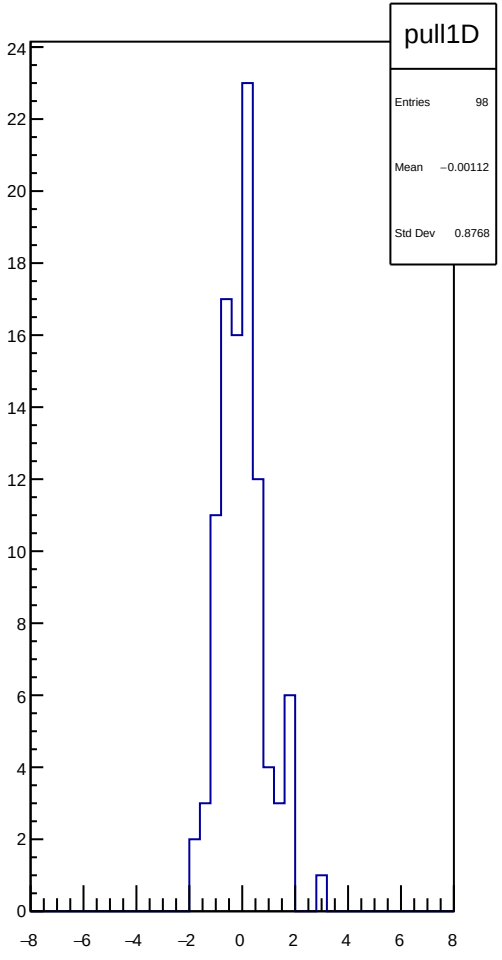

pull1D
Entries 98
Mean −0.001117
Std Dev 0.8768
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

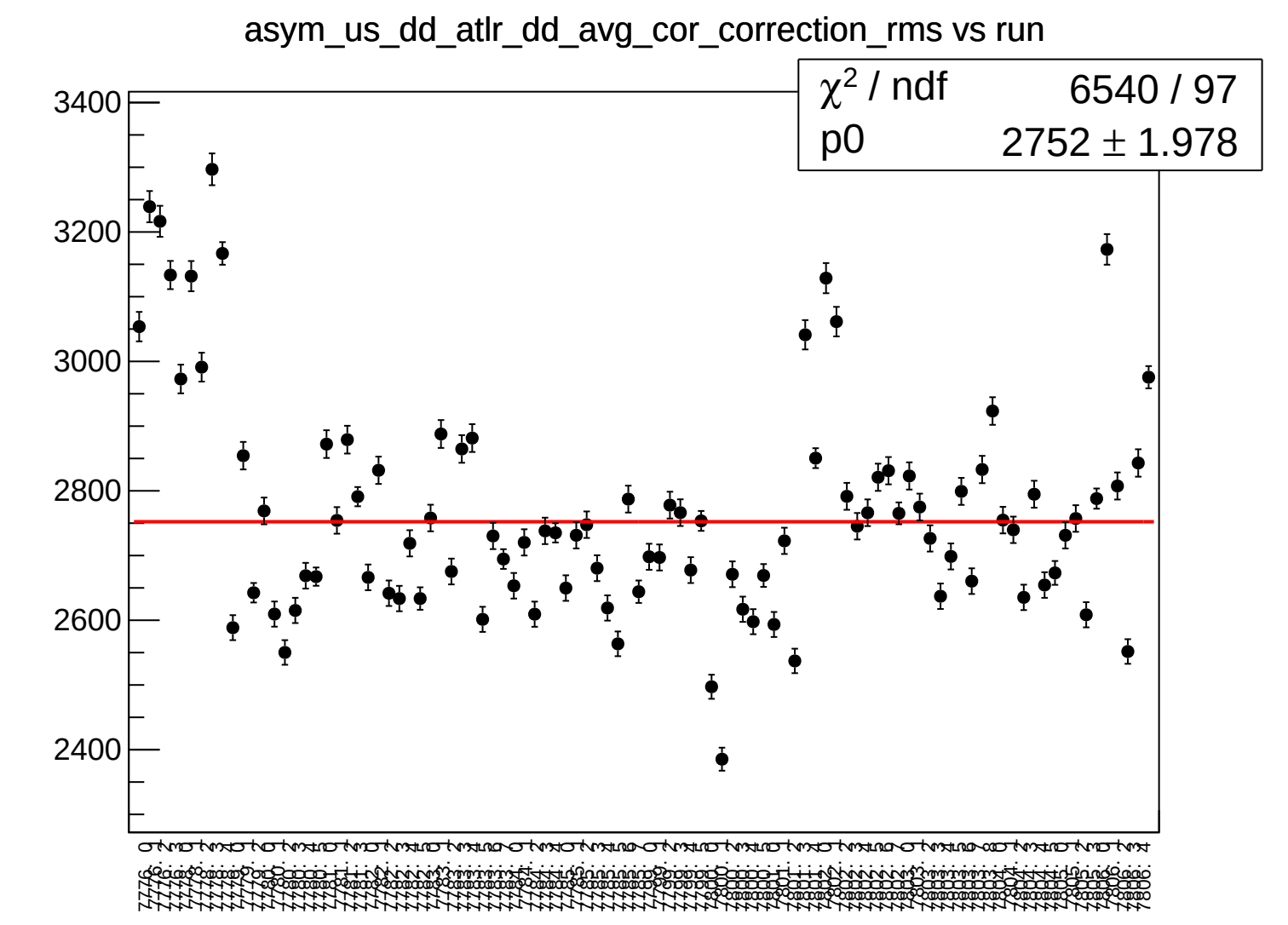

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 6539 / 97
p0 2752 ± 1.978
3400
3200
3000
2800
2600
2400

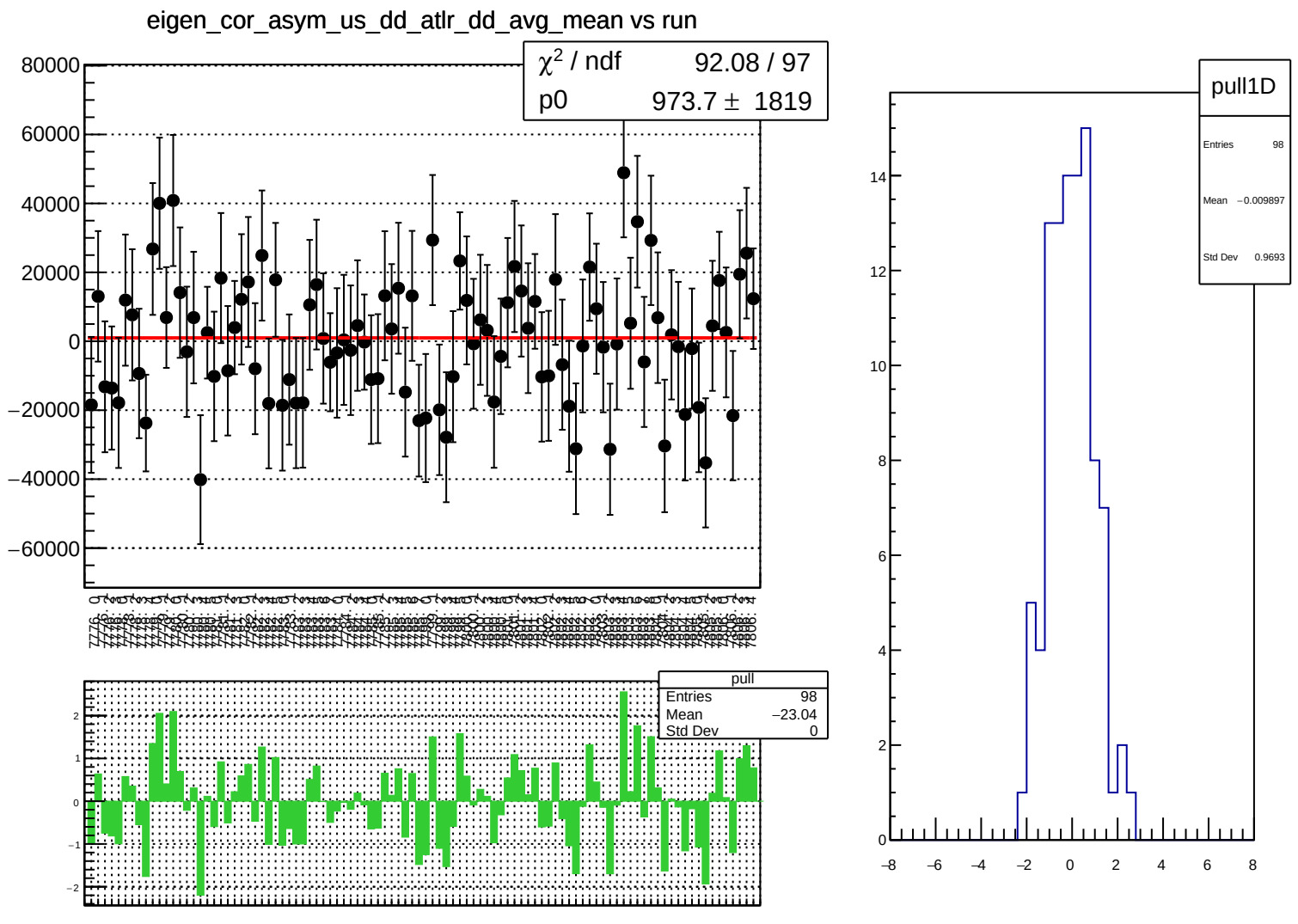

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 92.08 / 97
p0 973.7 ± 1819
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −23.04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.009897
Std Dev 0.9693
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

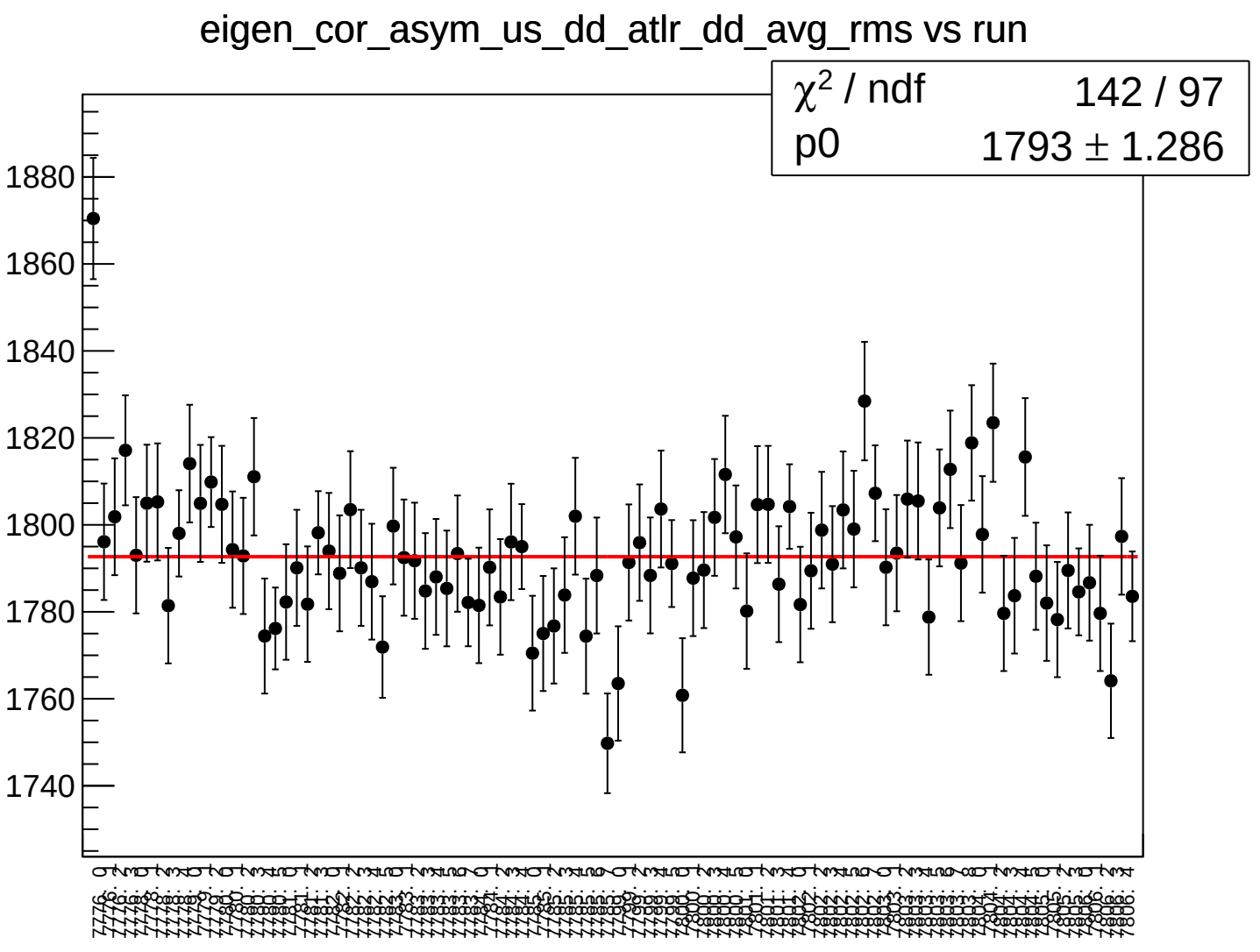

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 142 / 97
p0 1793 ± 1.286
1880
1860
1840
1820
1800
1780
1760
1740

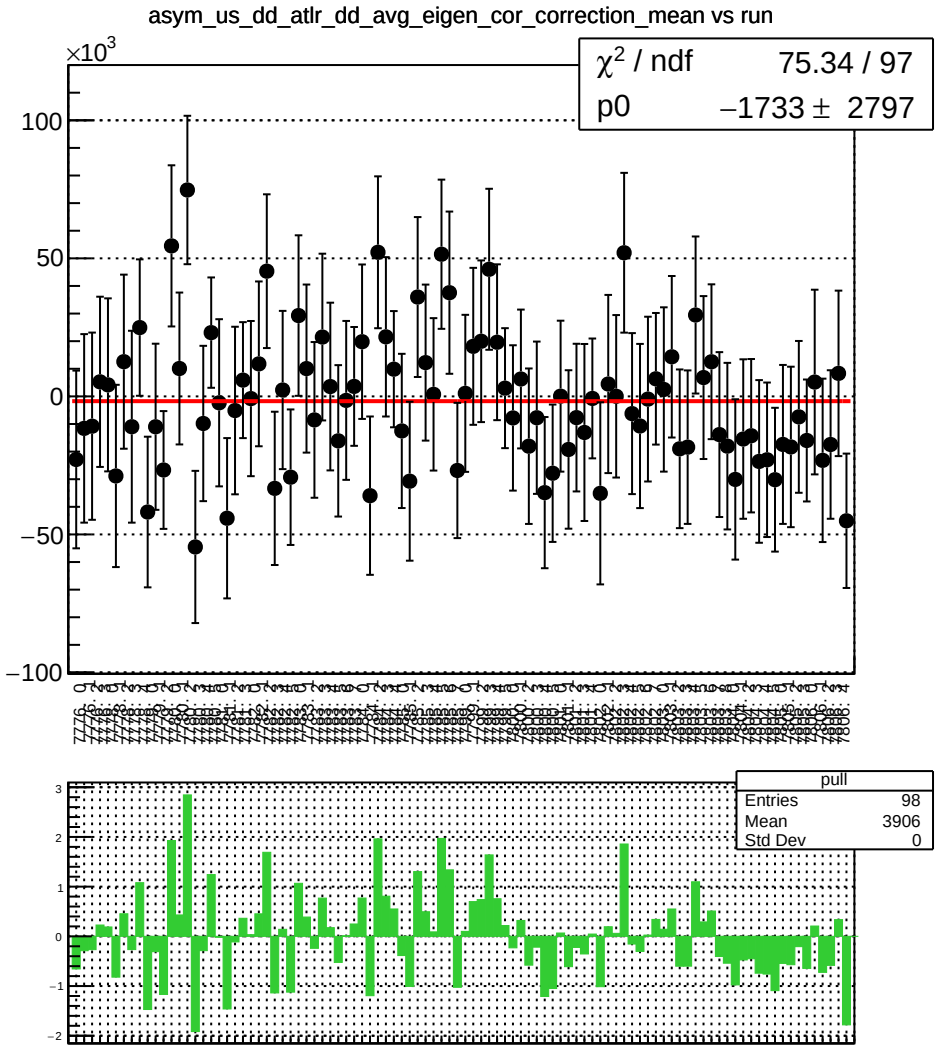

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 75.34 / 97
p0 −1733 ± 2797
100
50
0
−50
−100
pull
Entries 98
Mean 3906
Std Dev 0
3
2
1
0
−1
−2

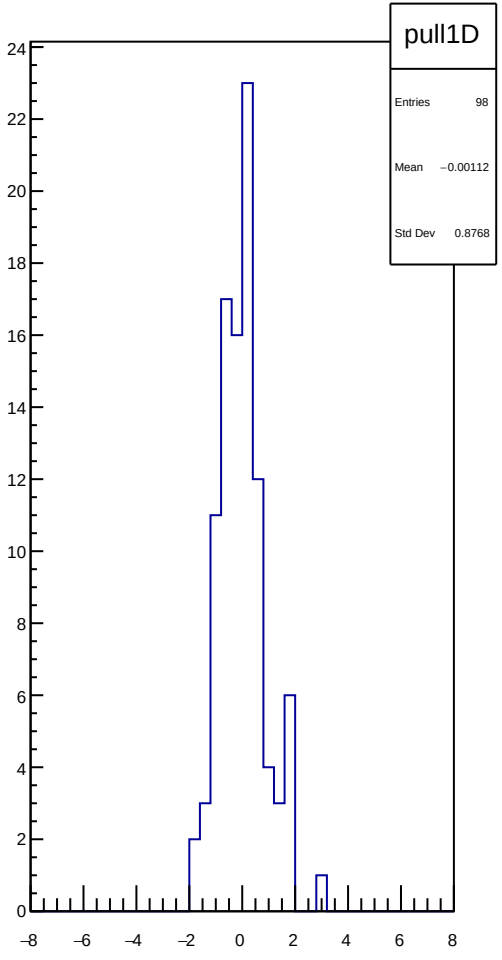

pull1D
Entries 98
Mean −0.00112
Std Dev 0.8768
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

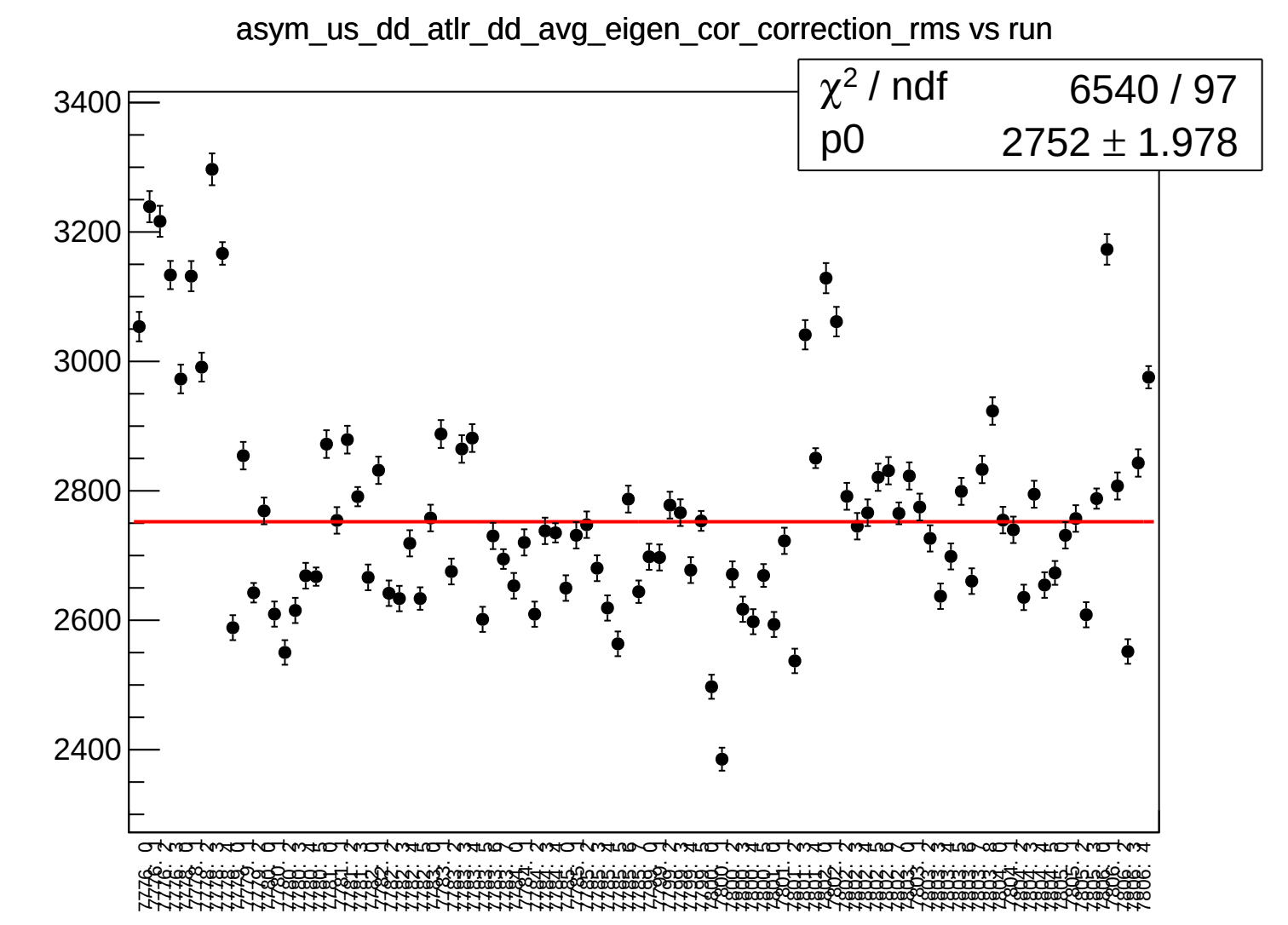

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 6540 / 97
p0 2752 ± 1.978
3400
3200
3000
2800
2600
2400

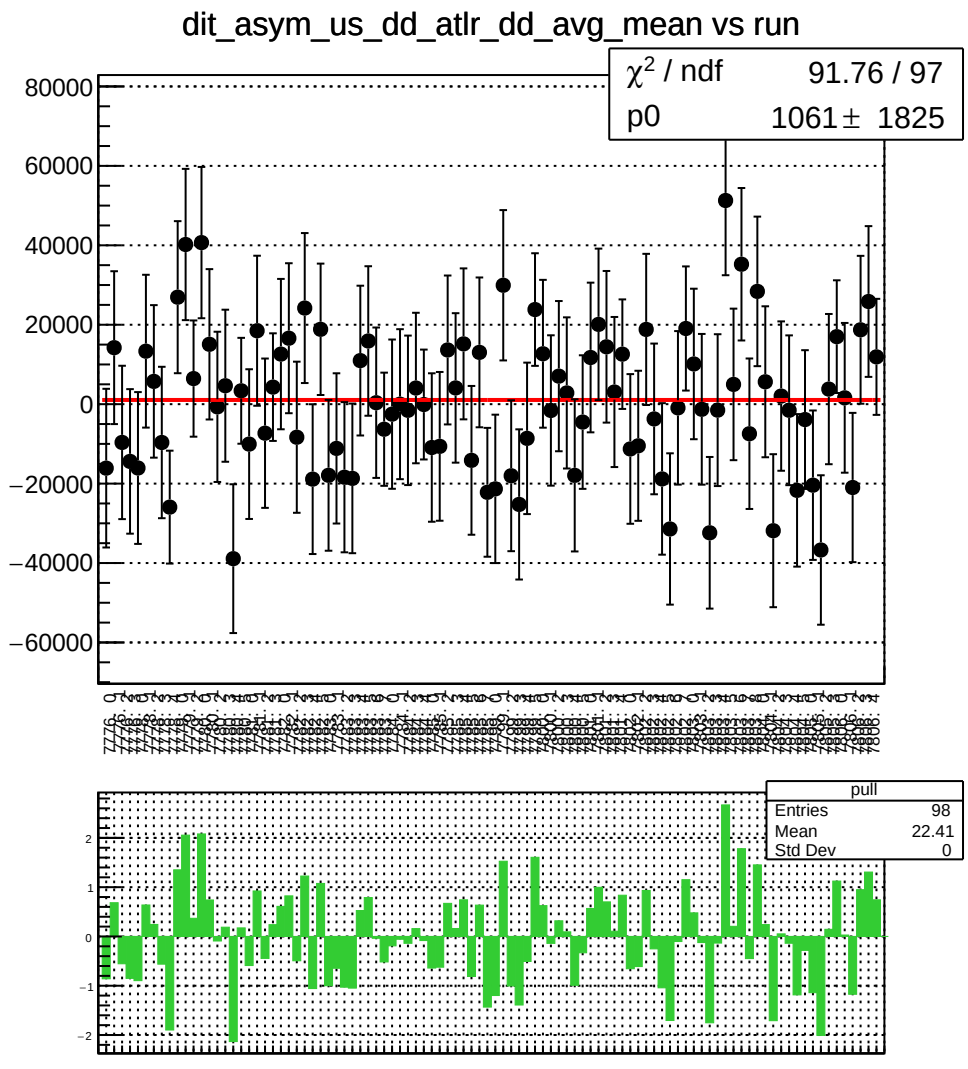

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 92.08 / 97
p0 973.7 ± 1819
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −23.04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.009897
Std Dev 0.9693
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

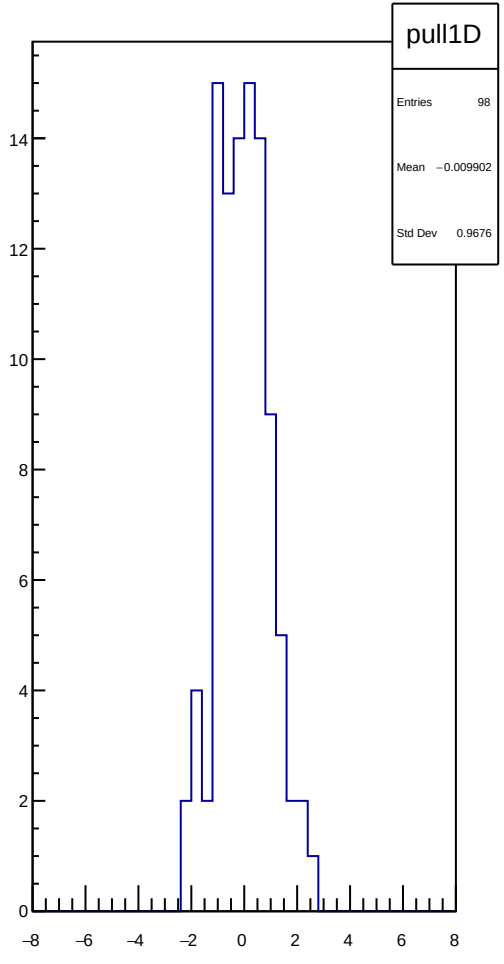

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 142 / 97
p0 1793 ± 1.286
1880
1860
1840
1820
1800
1780
1760
1740

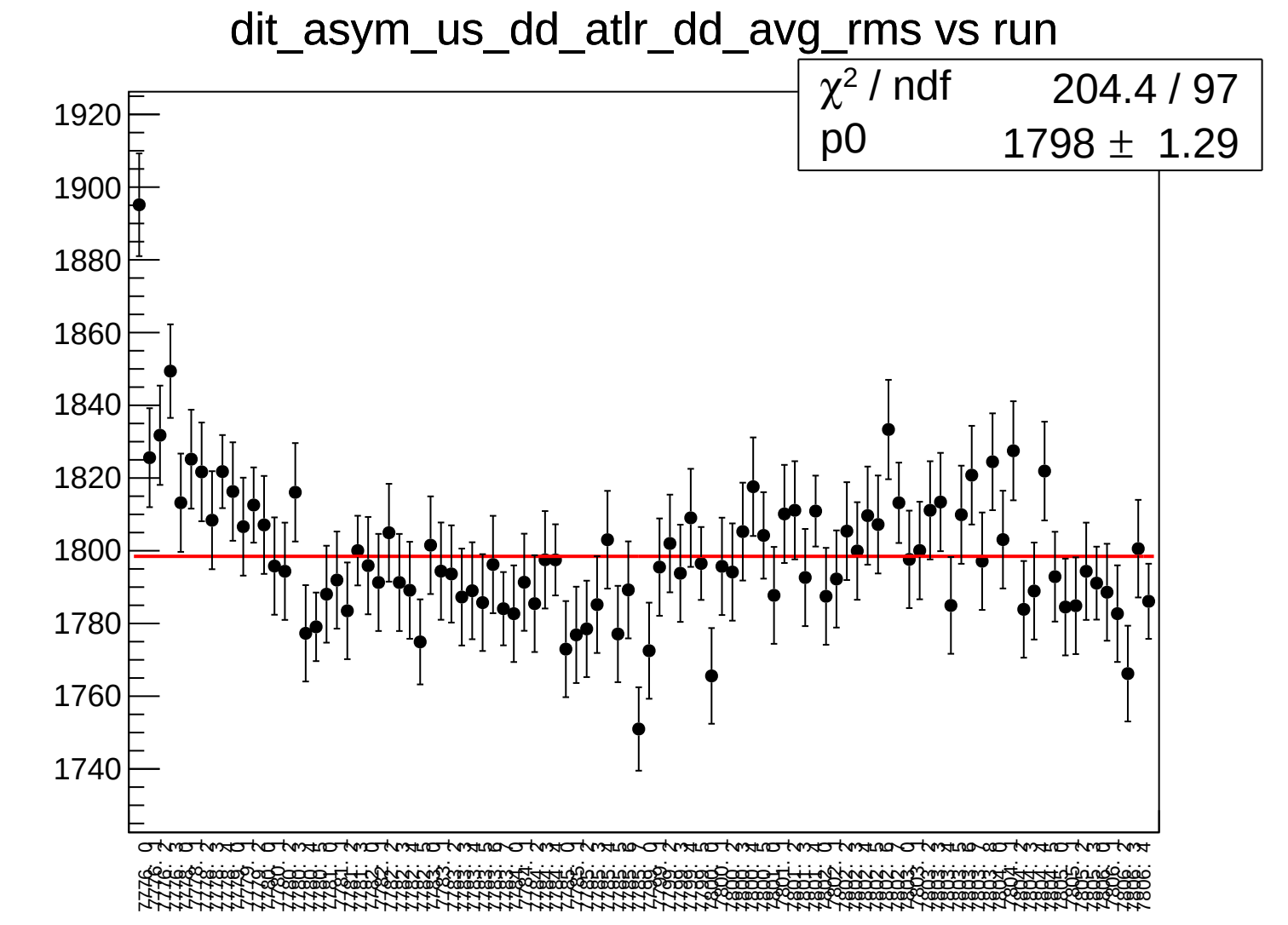

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 75.34 / 97
p0 −1733 ± 2797
100
50
0
−50
−100
pull
Entries 98
Mean 3906
Std Dev 0
3
2
1
0
−1
−2

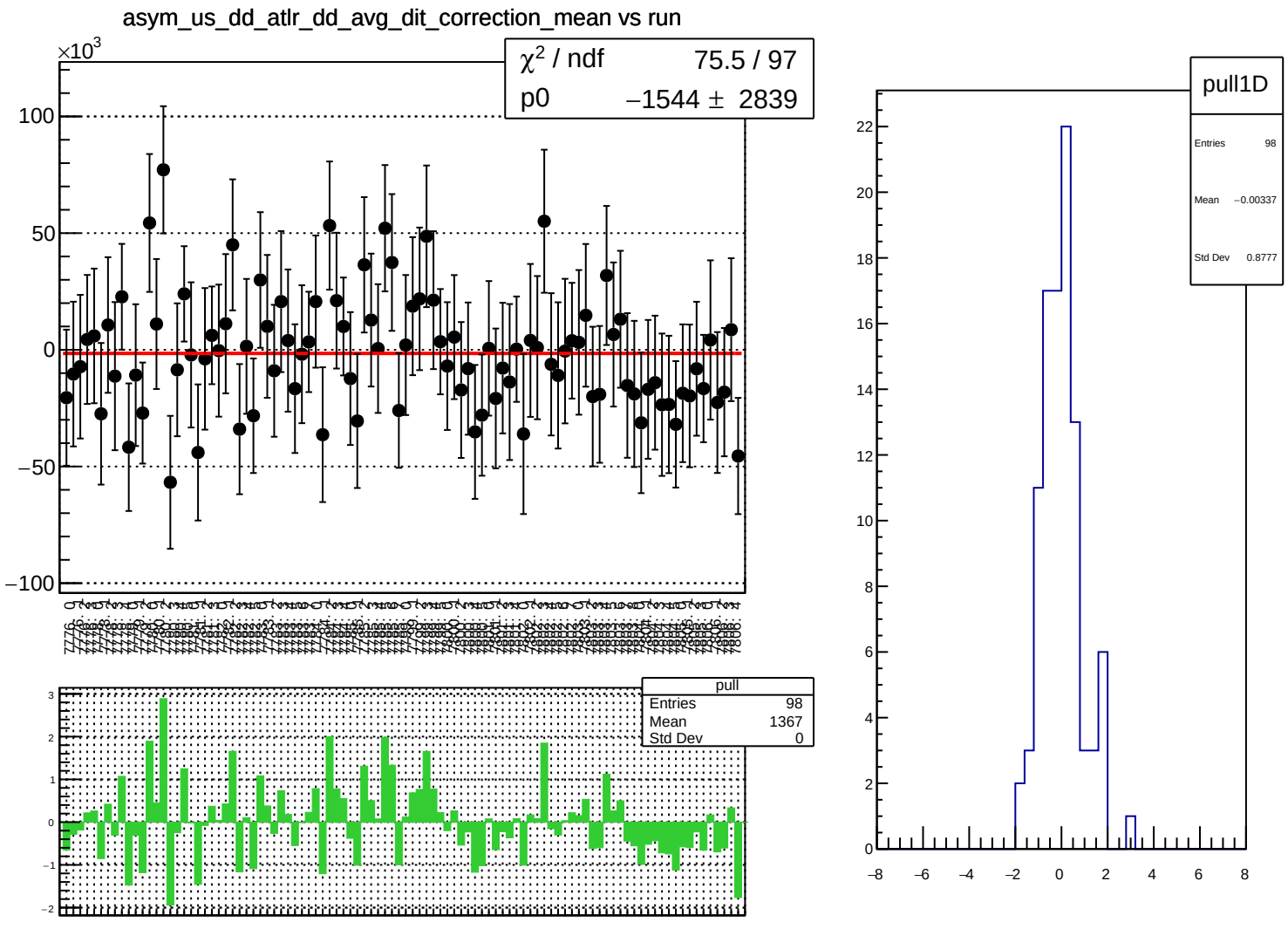

pull1D
Entries 98
Mean −0.00112
Std Dev 0.8768
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

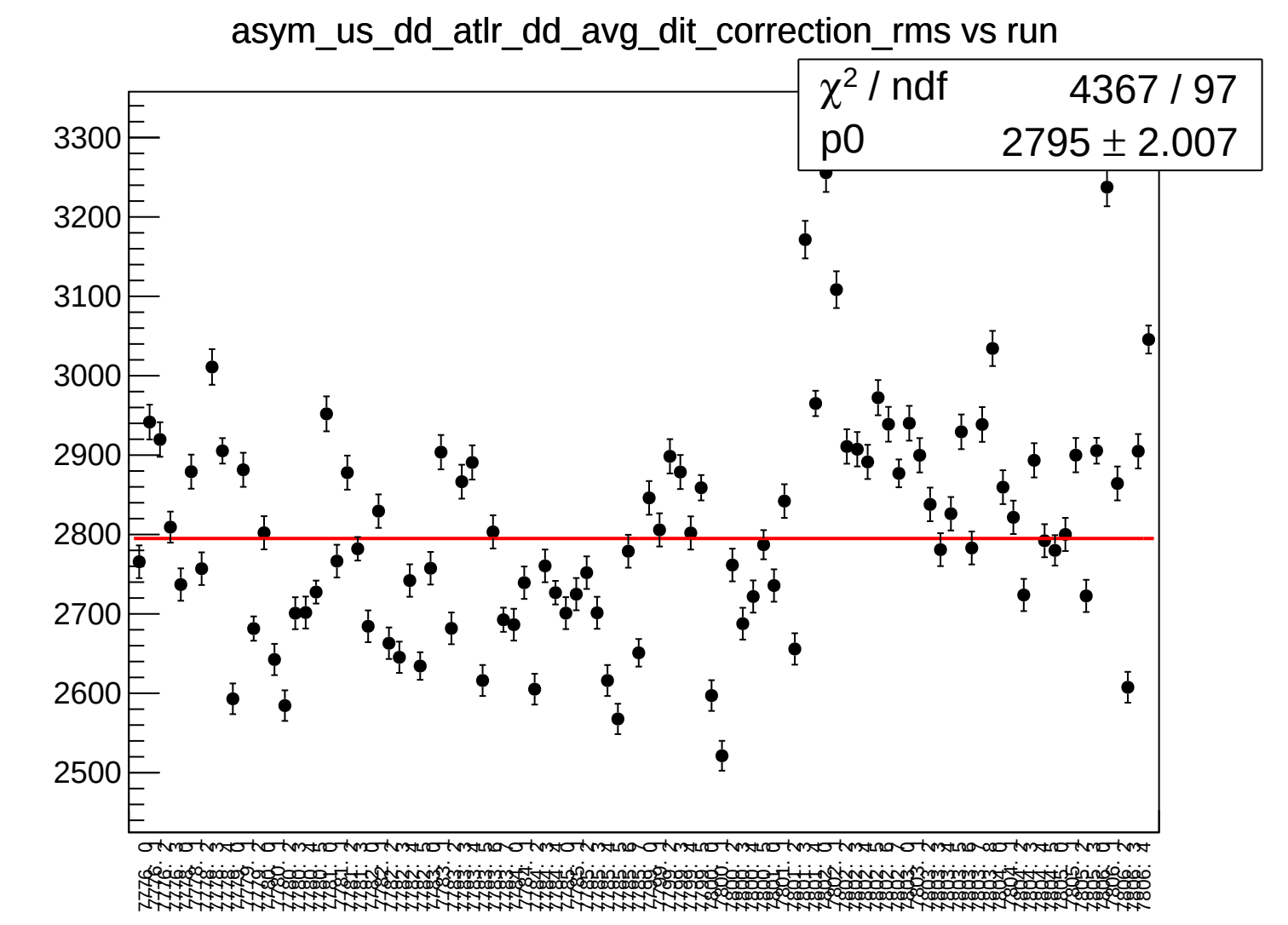

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6540 / 97
p0 2752 ± 1.978
3400
3200
3000
2800
2600
2400

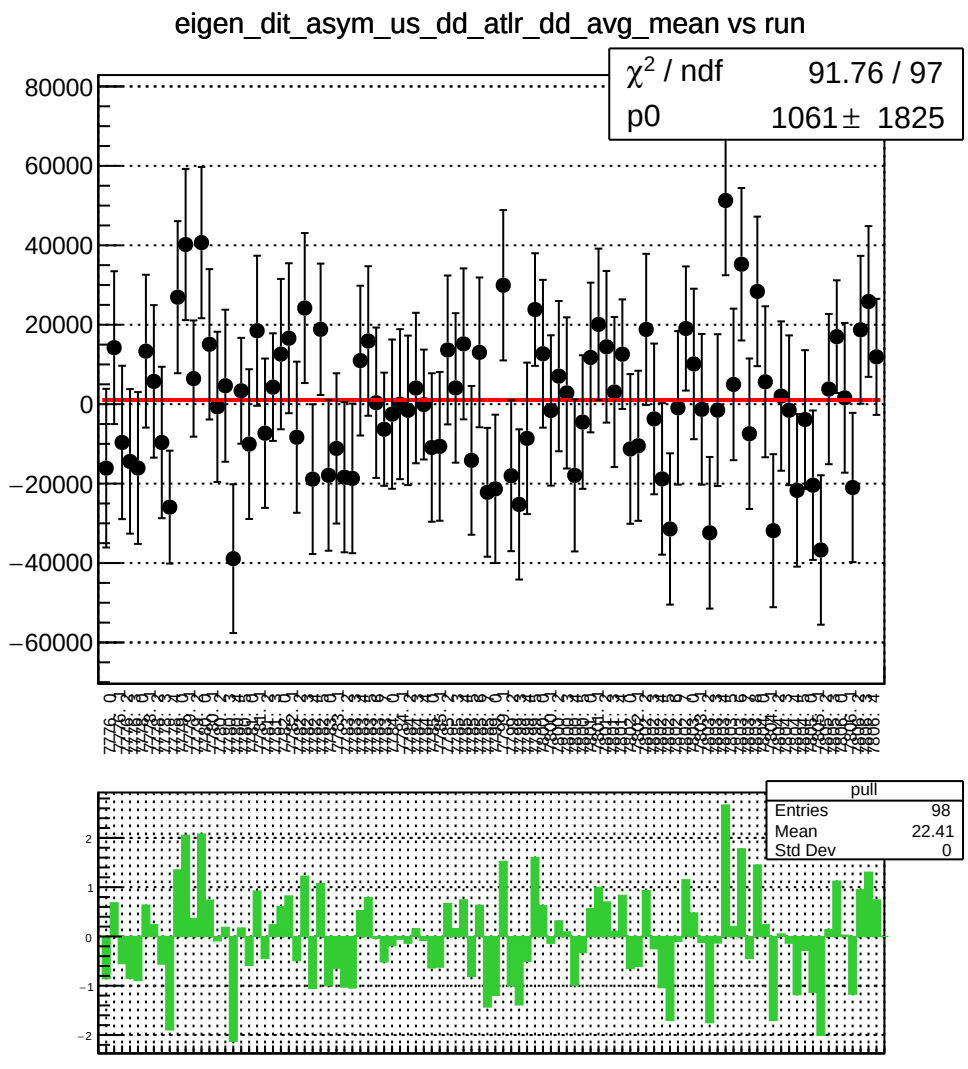

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 91.76 / 97
p0 1061 ± 1825
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 22.41
Std Dev 0
2
1
0
−1
−2

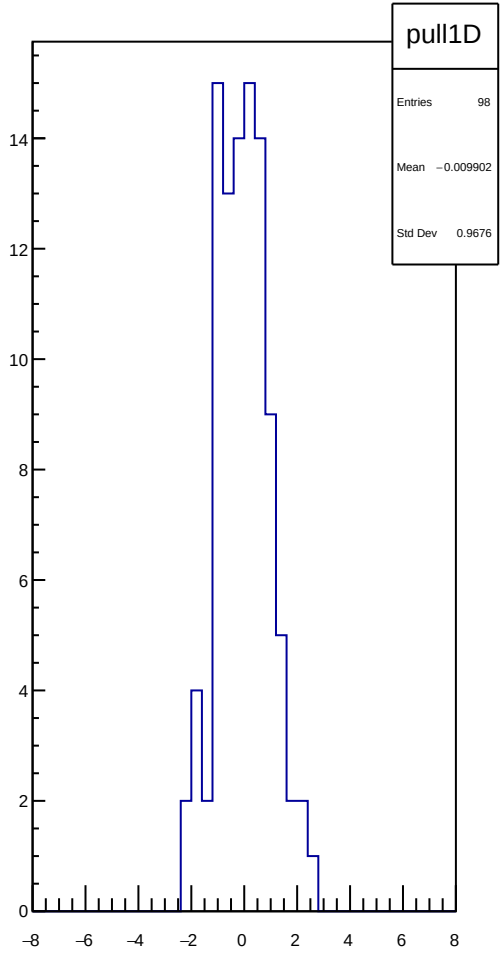

pull1D
Entries 98
Mean −0.009902
Std Dev 0.9676
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

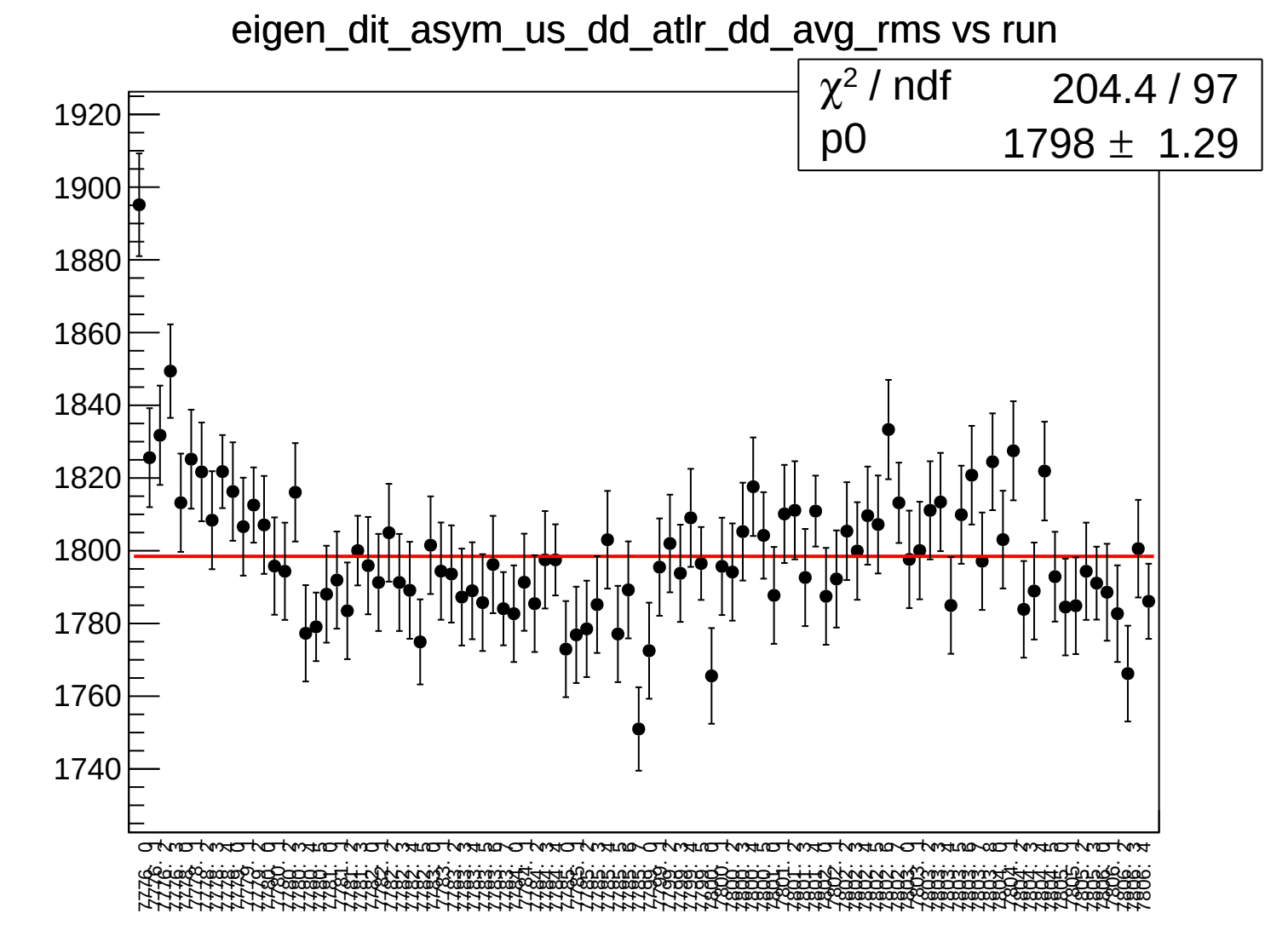

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 204.4 / 97
p0 1798 ± 1.29
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

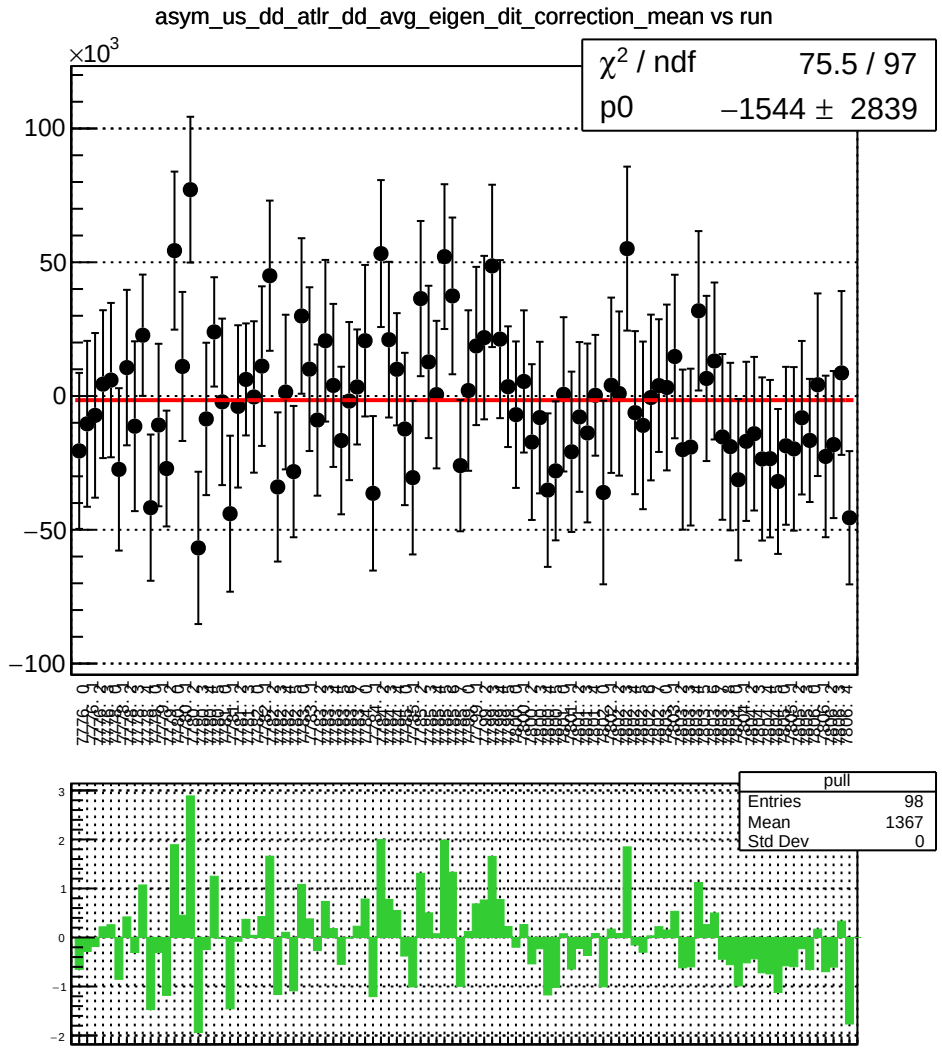

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 75.5 / 97
p0 −1544 ± 2839
100
50
0
−50
−100
pull
Entries 98
Mean 1367
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.00337
Std Dev 0.8777
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

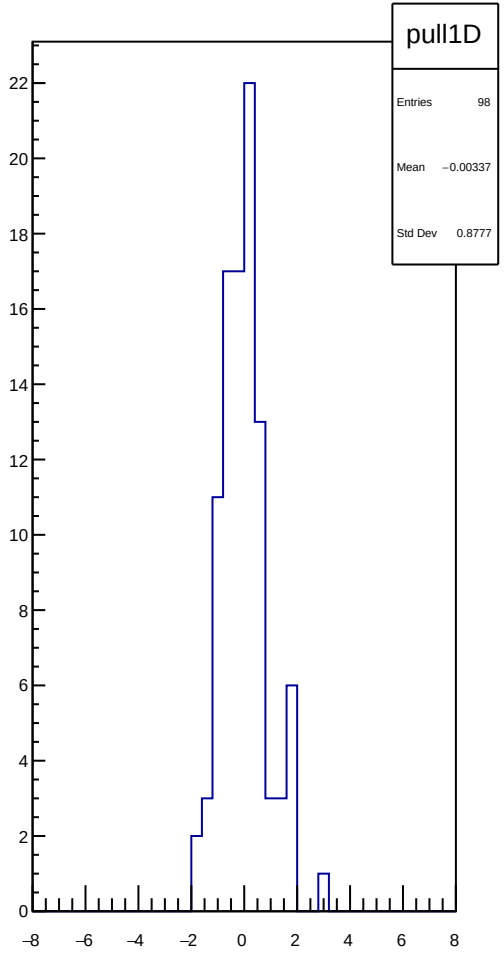

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 4367 / 97
p0 2795 ± 2.007
3300
3200
3100
3000
2900
2800
2700
2600
2500

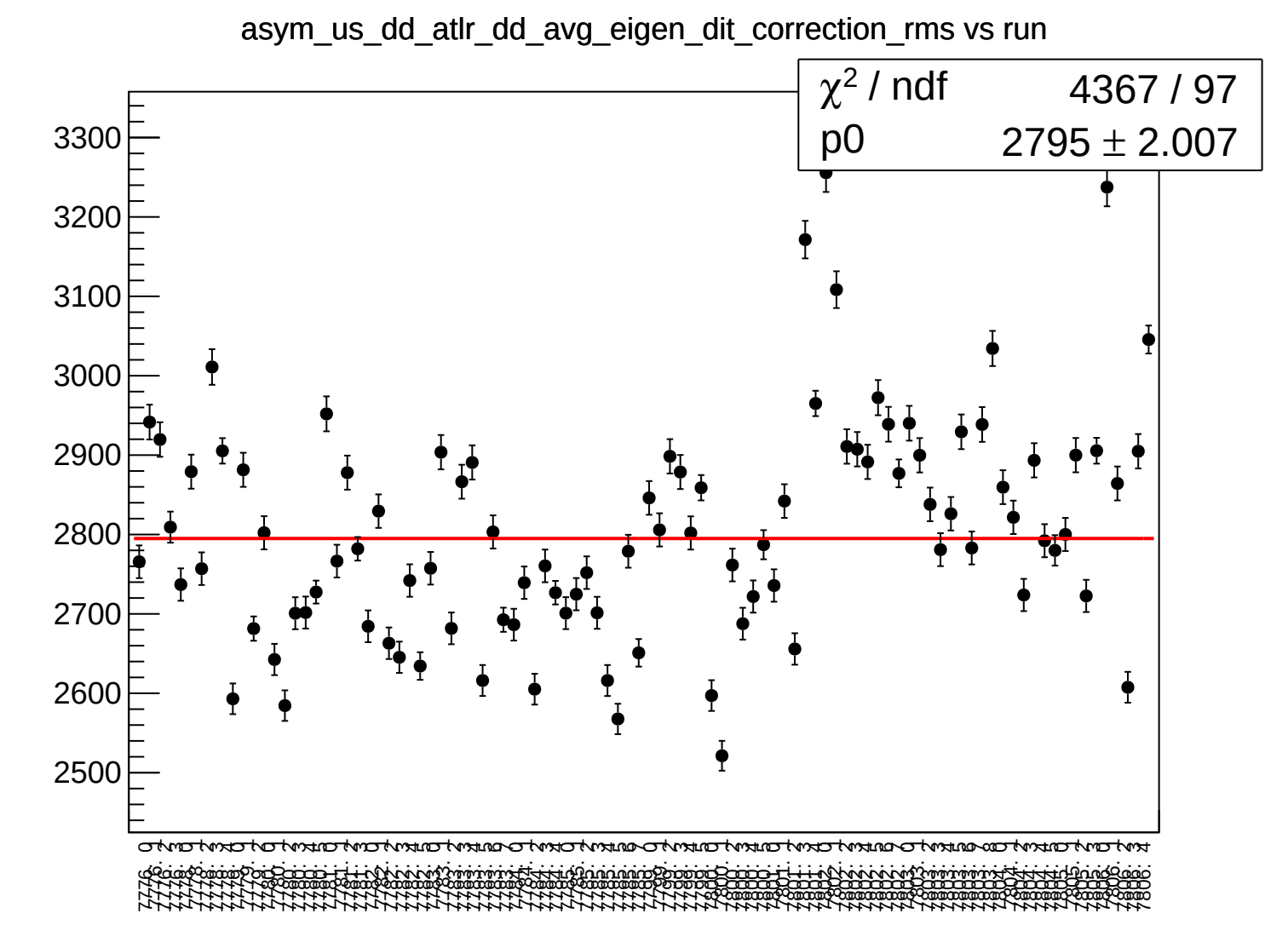

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 91.76 / 97
p0 1061 ± 1825
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 22.41
Std Dev 0
2
1
0
−1
−2

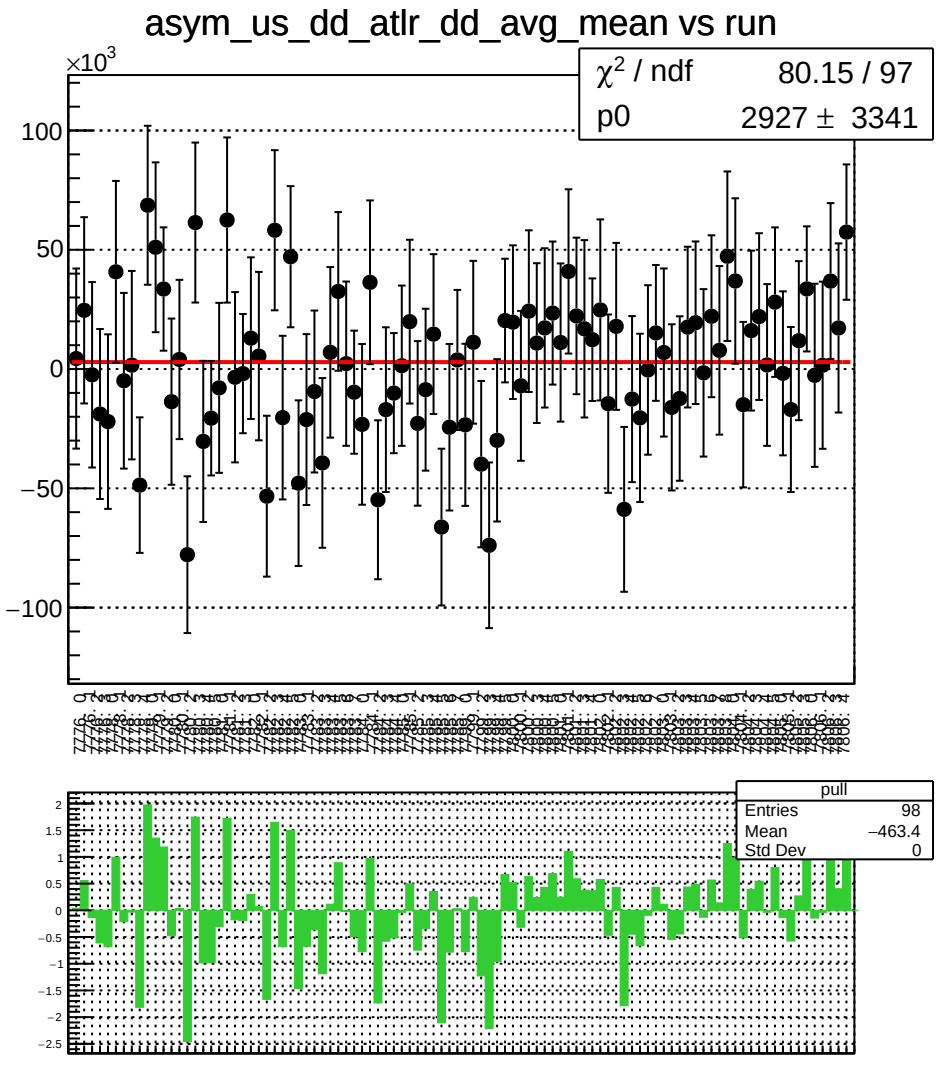

pull1D
Entries 98
Mean −0.009902
Std Dev 0.9676
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

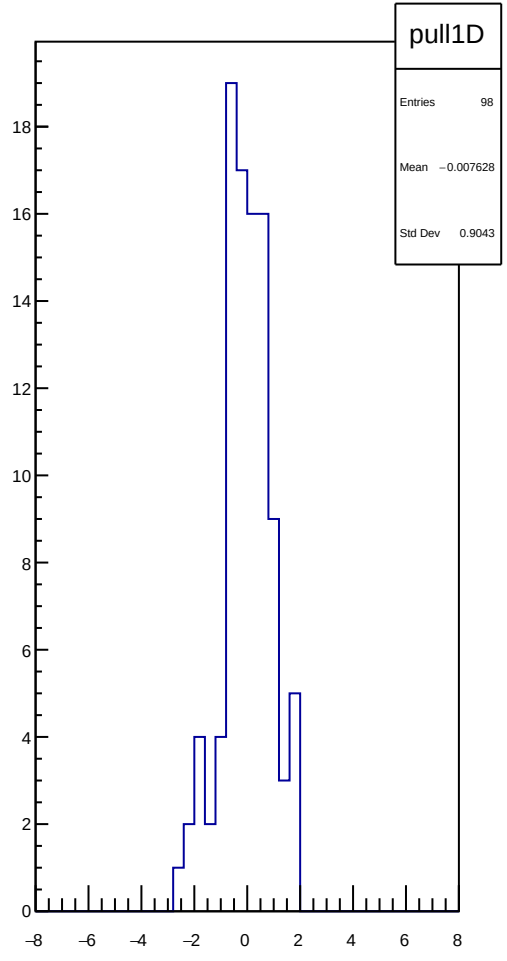

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 204.4 / 97
p0 1798 ± 1.29
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

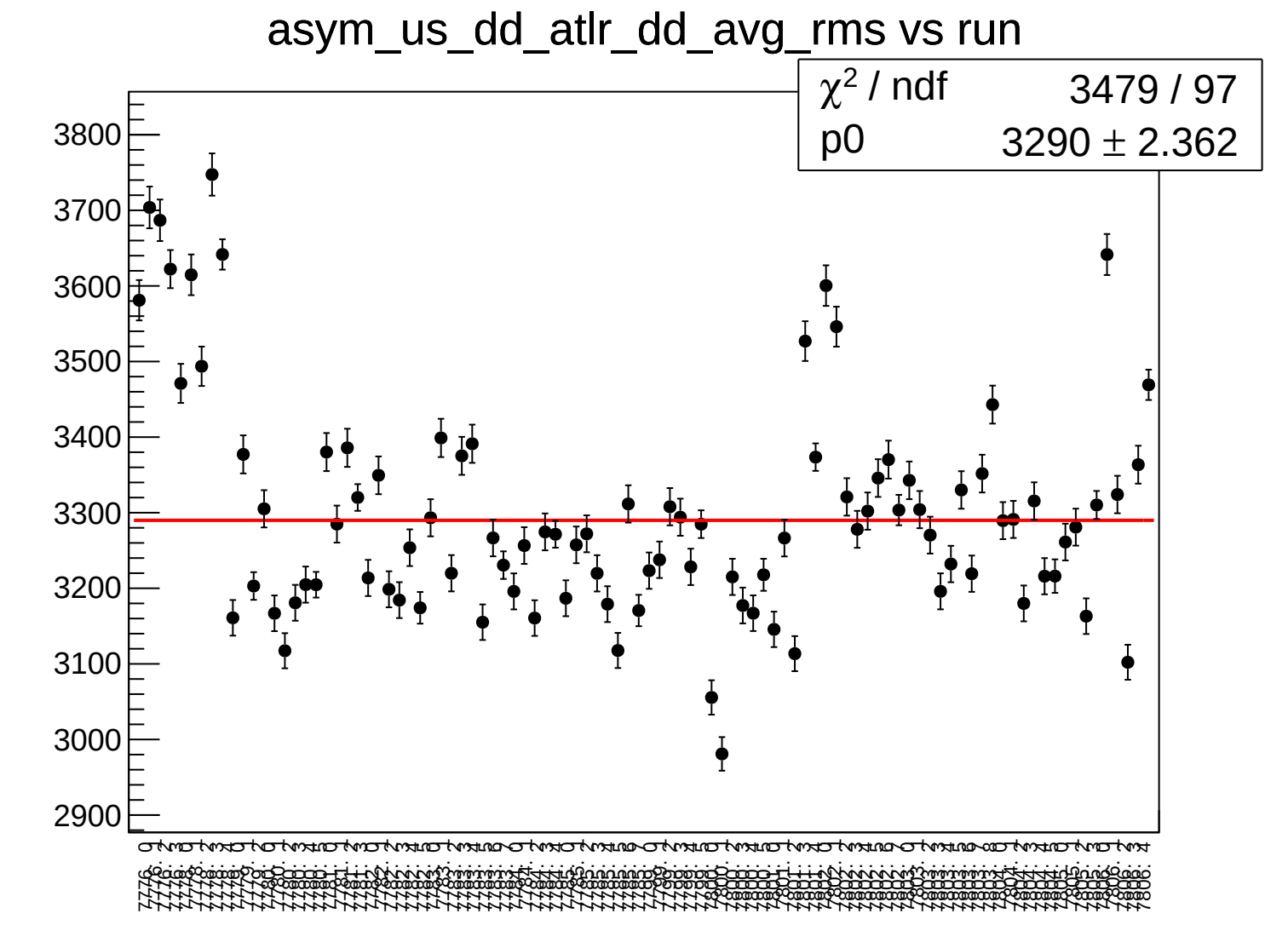

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 75.5 / 97
p0 −1544 ± 2839
100
50
0
−50
−100
pull
Entries 98
Mean 1367
Std Dev 0
3
2
1
0
−1
−2

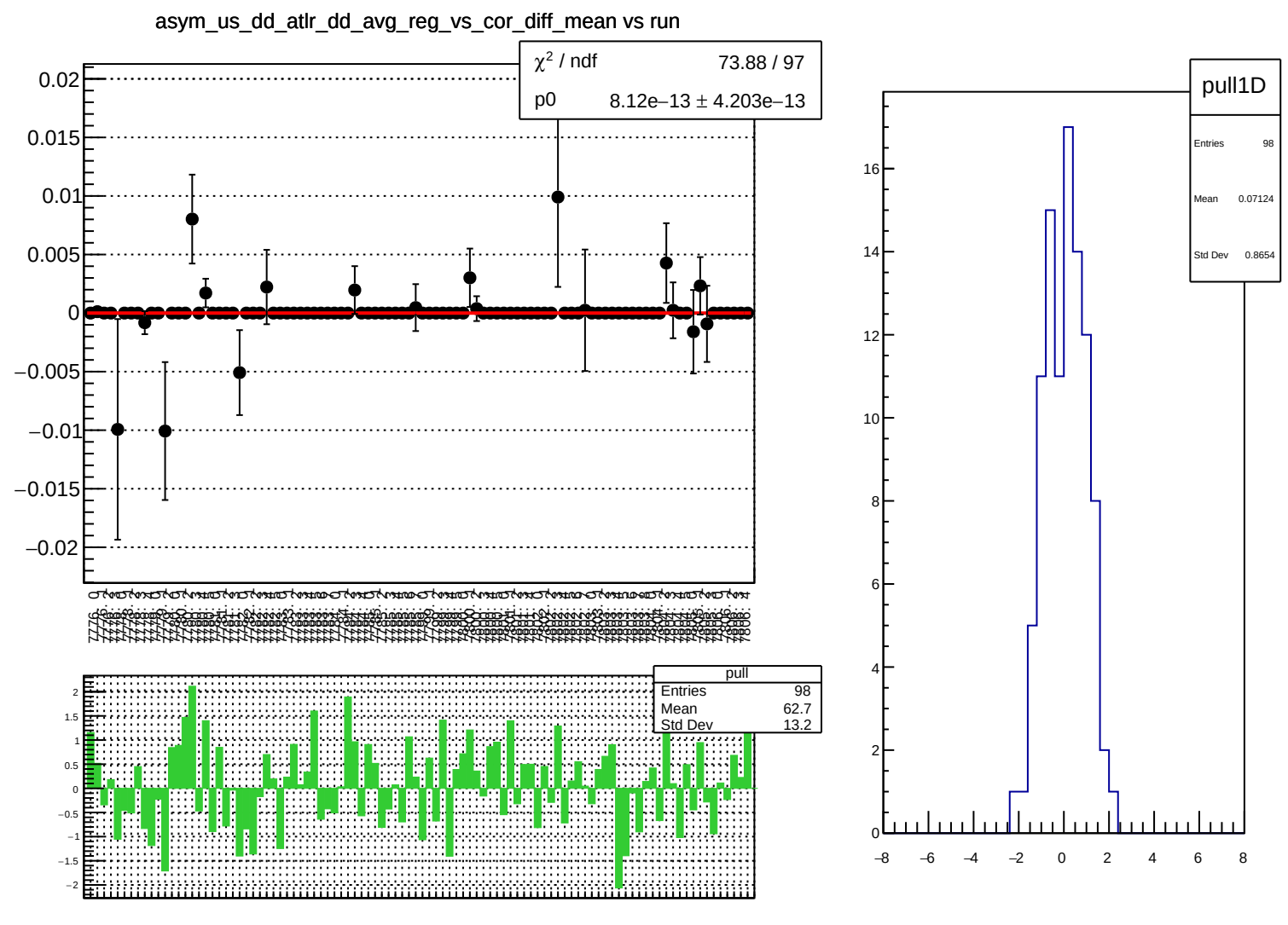

pull1D
Entries 98
Mean −0.00337
Std Dev 0.8777
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

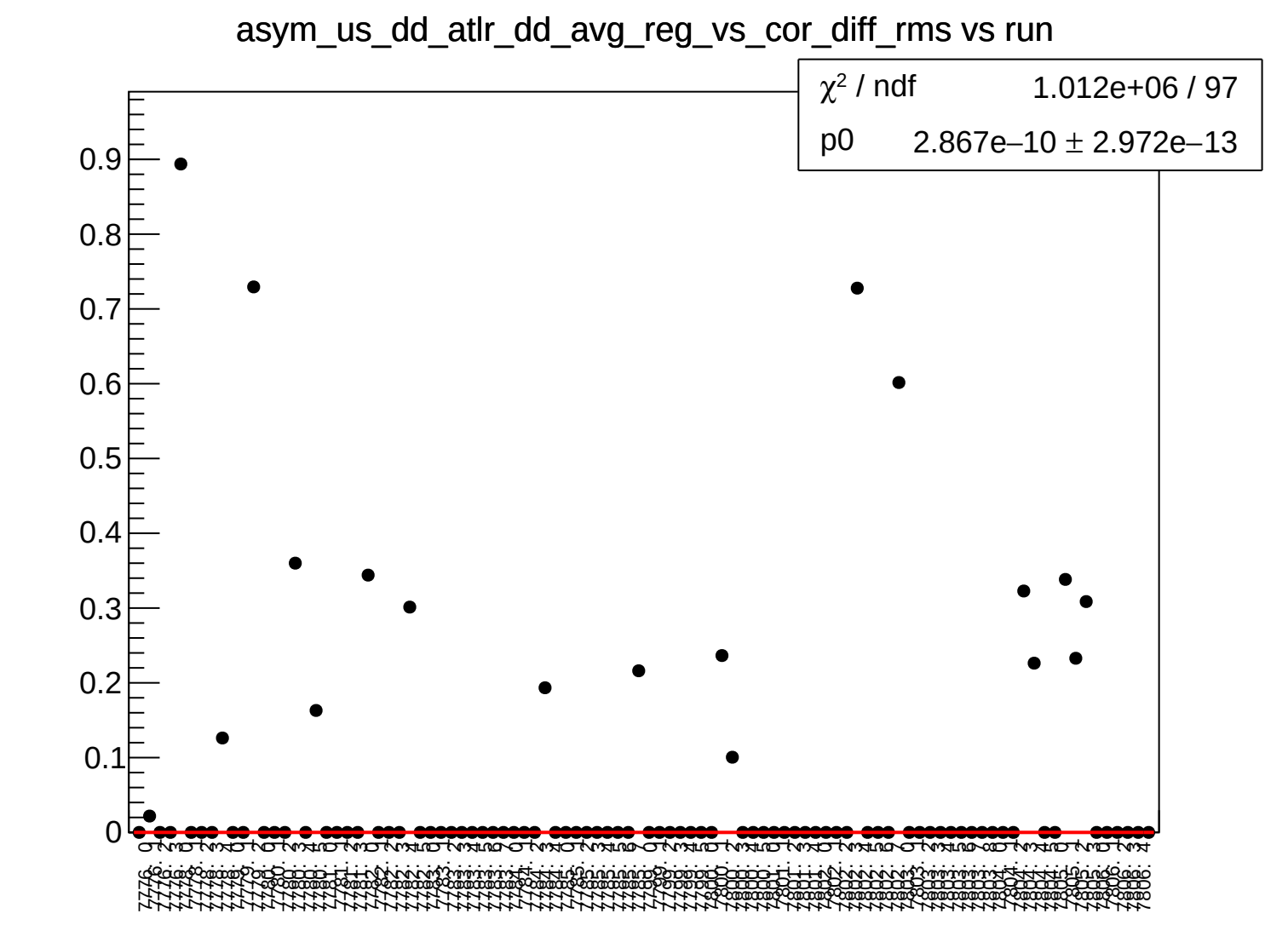

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4367 / 97
p0 2795 ± 2.007
3300
3200
3100
3000
2900
2800
2700
2600
2500

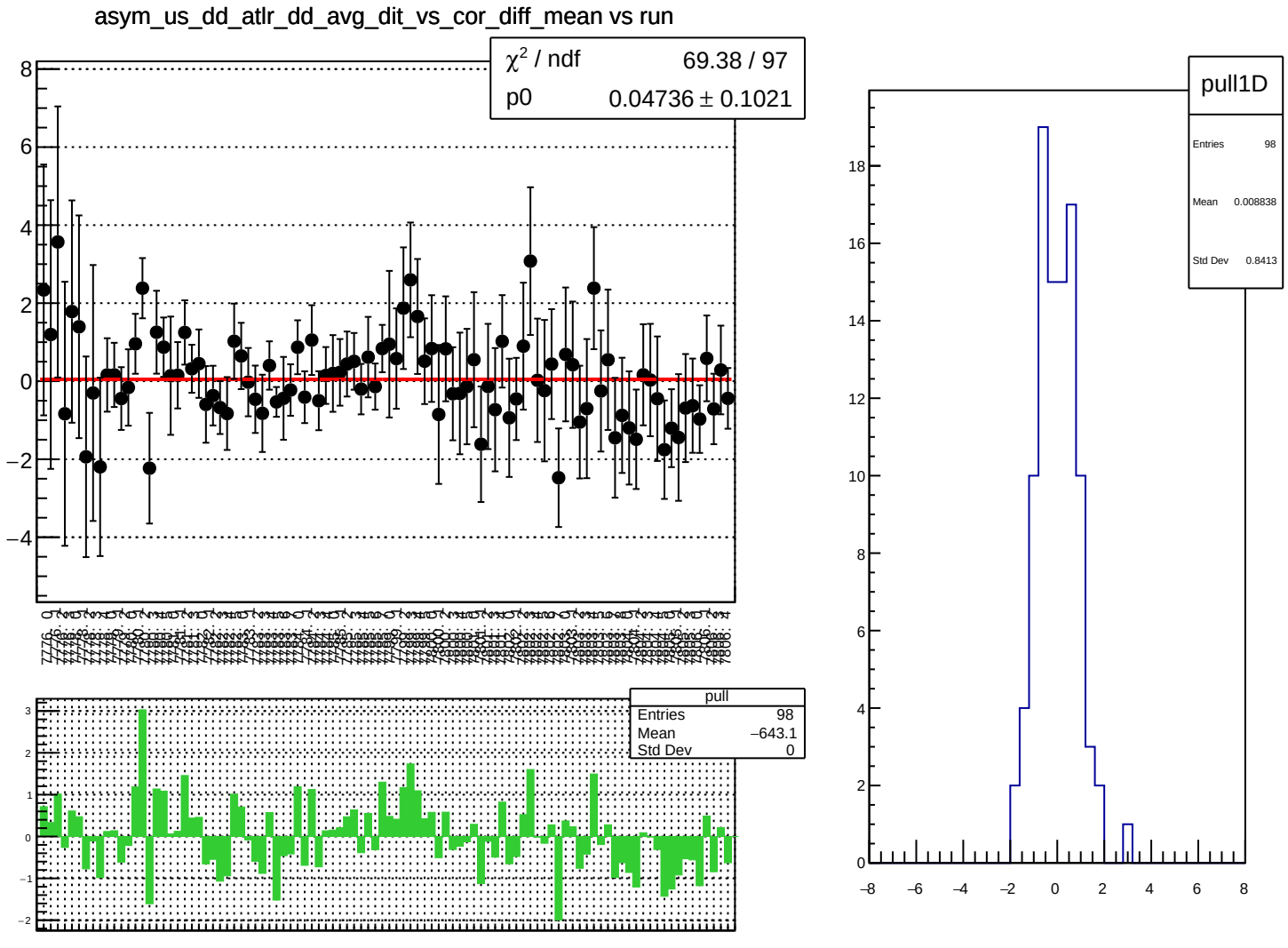

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 80.15 / 97
p0 2927 ± 3341
100
50
0
−50
−100
pull
Entries 98
Mean −463.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

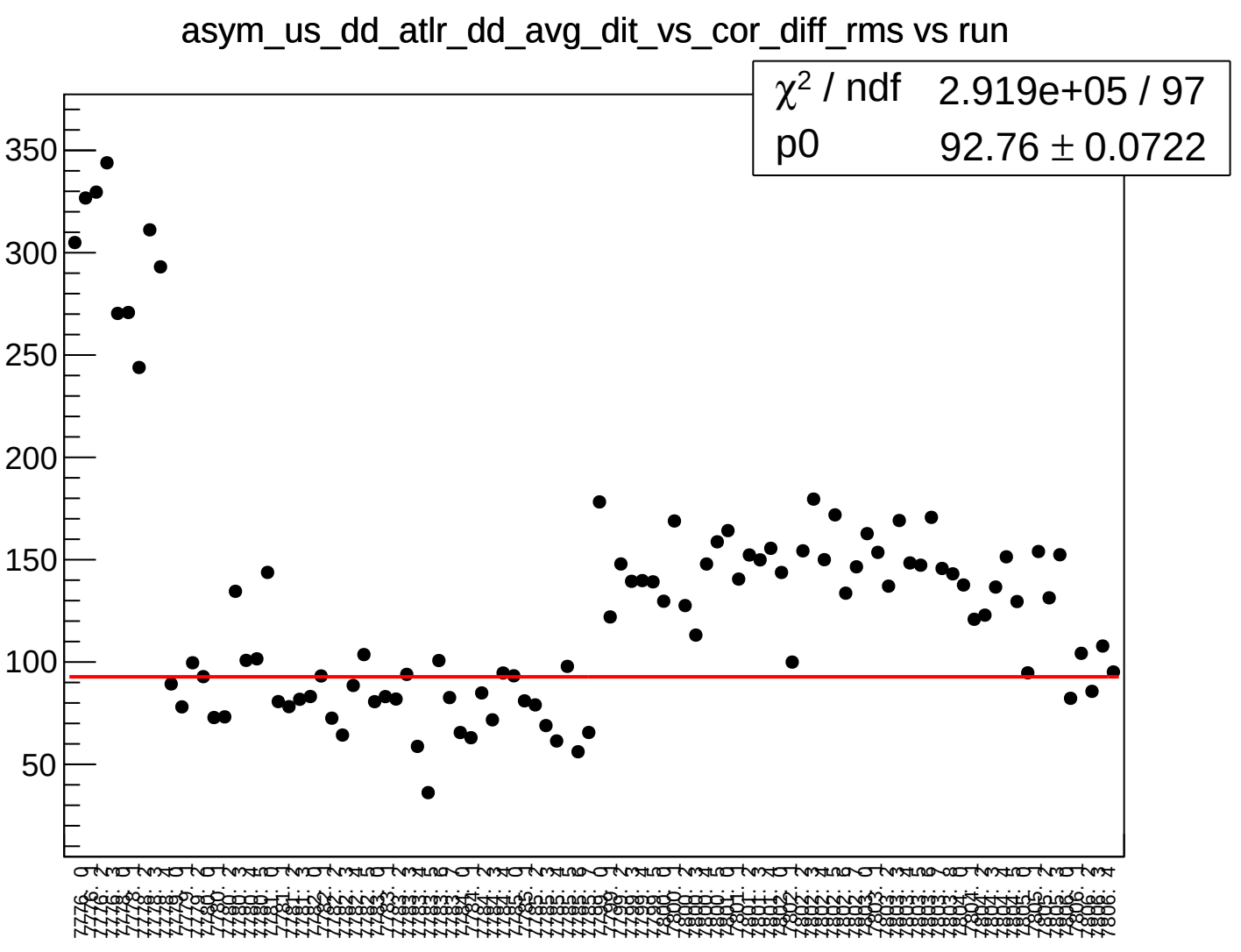

pull1D
Entries 98
Mean −0.007628
Std Dev 0.9043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

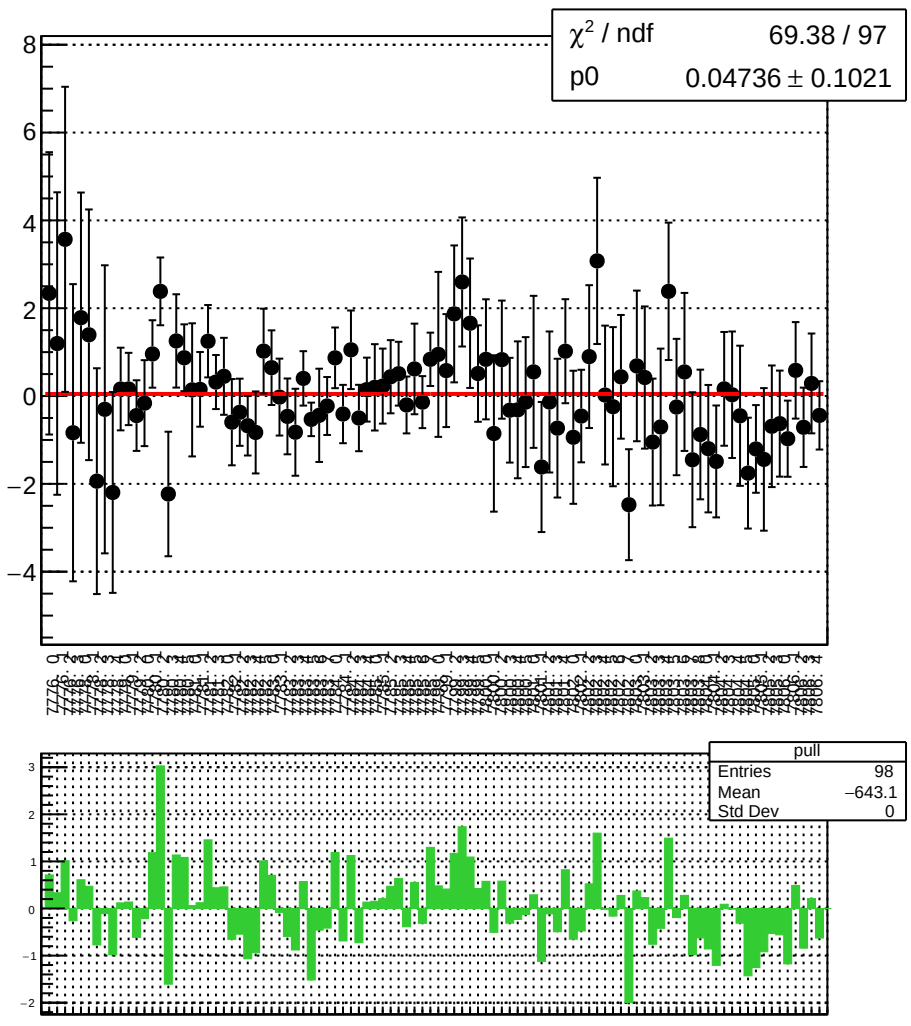

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 3479 / 97
p0 3290 ± 2.362
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900

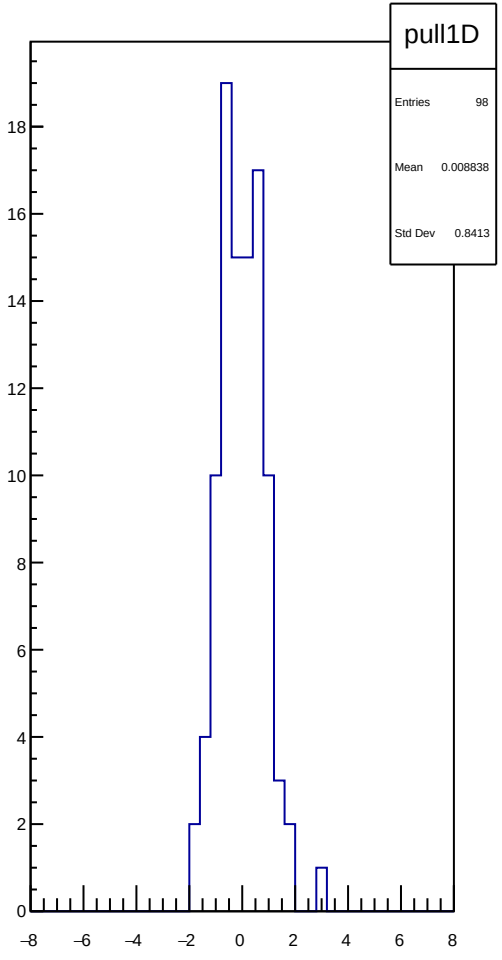

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.88 / 97
p0 8.12e−13 ± 4.203e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 98
Mean 62.7
Std Dev 13.2
pull1D
Entries 98
Mean 0.07124
Std Dev 0.8654
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

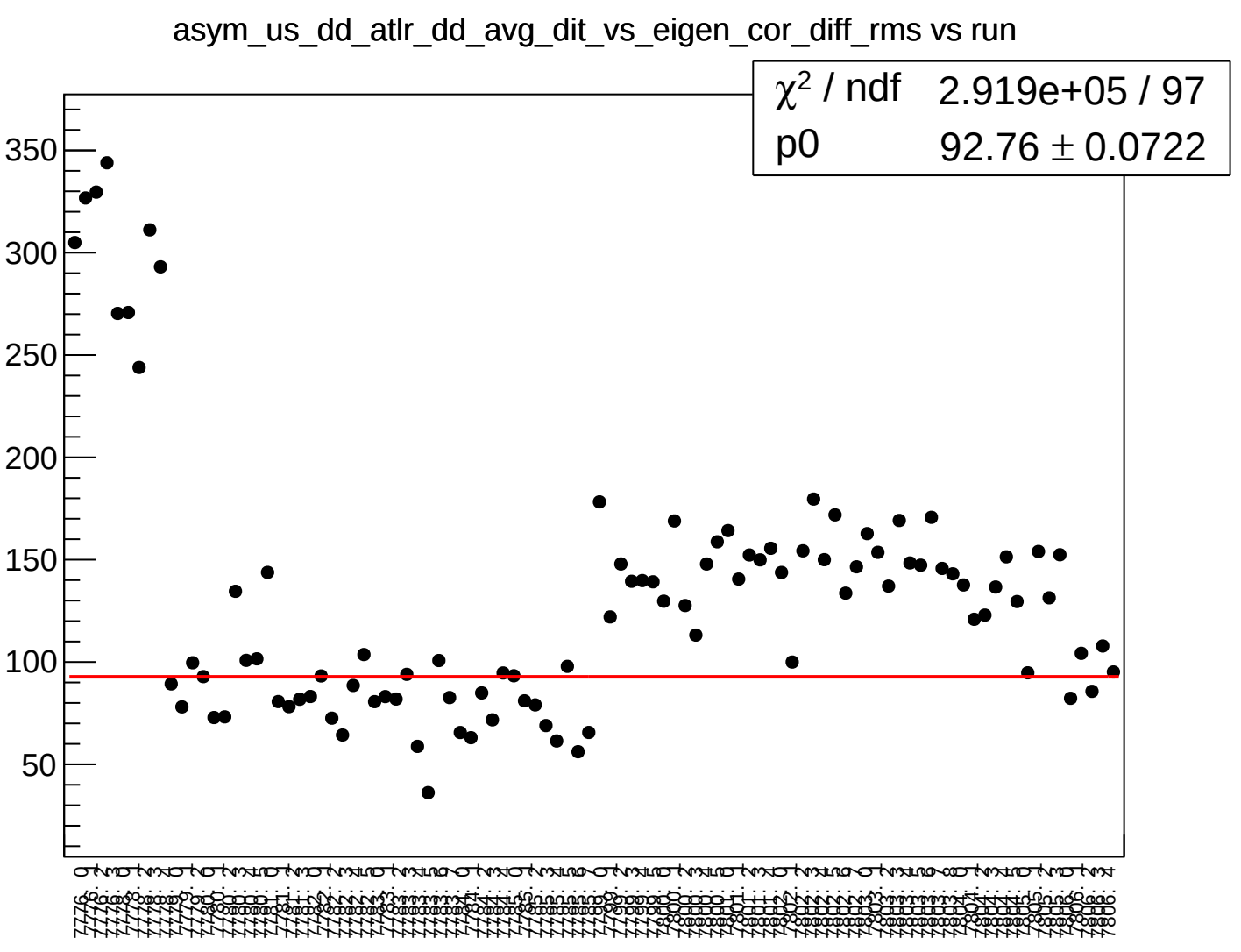

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.012e+06 / 97
p0 2.867e−10 ± 2.972e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

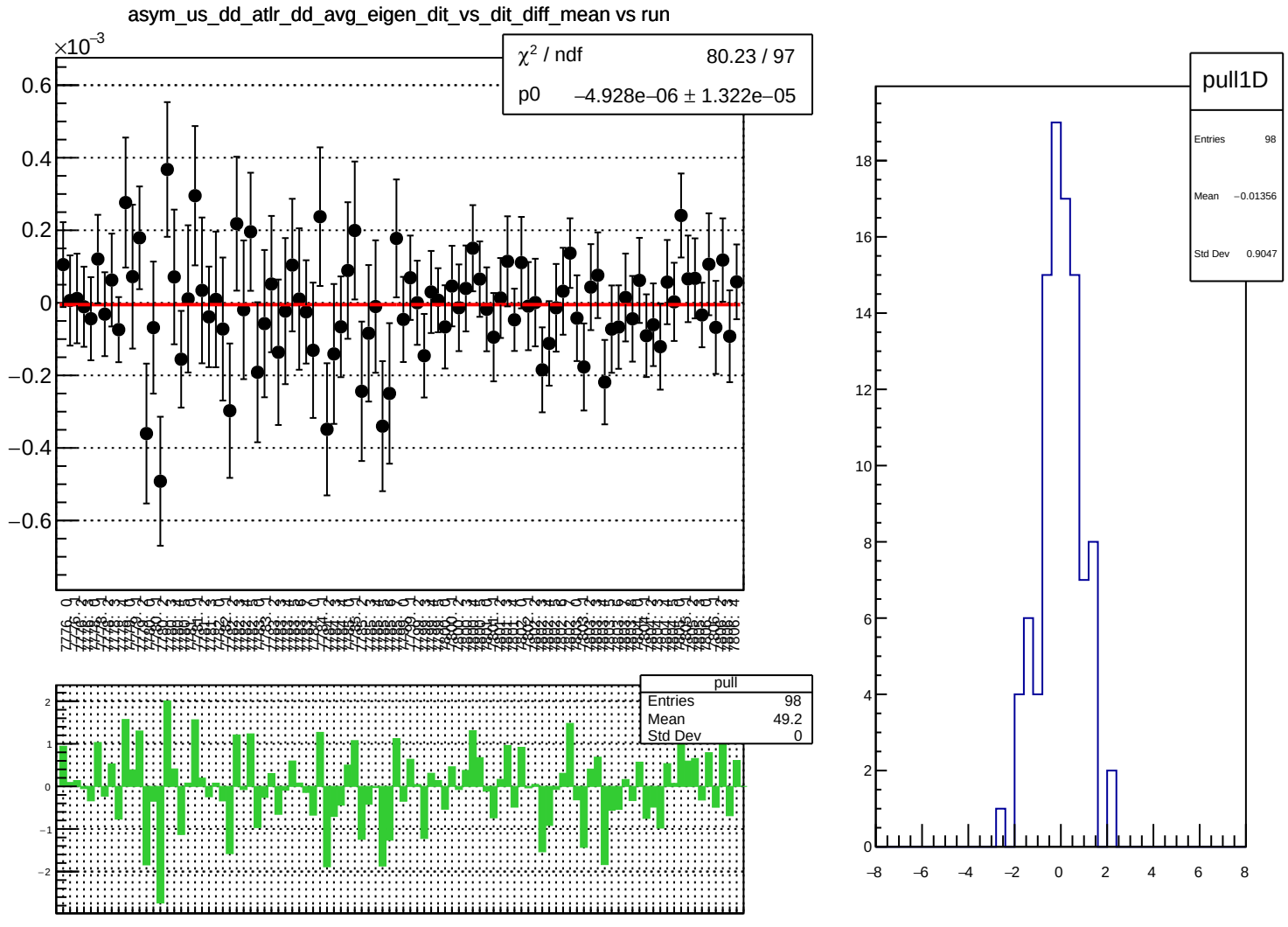

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.38 / 97
p0 0.04736 ± 0.1021
pull
Entries 98
Mean −643.1
Std Dev 0
pull1D
Entries 98
Mean 0.008838
Std Dev 0.8413

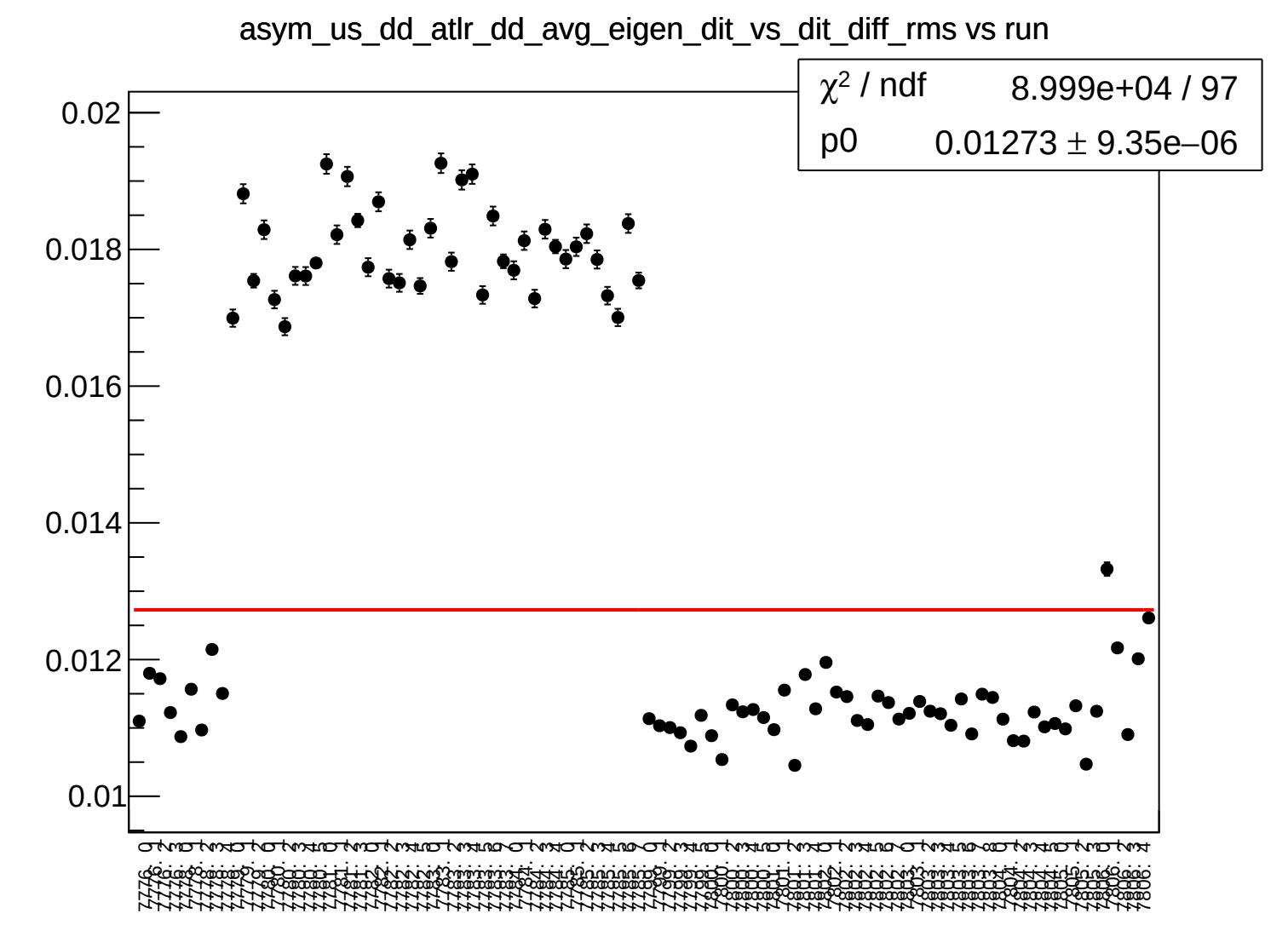

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.919e+05 / 97
p0 92.76 ± 0.0722
350
300
250
200
150
100
50

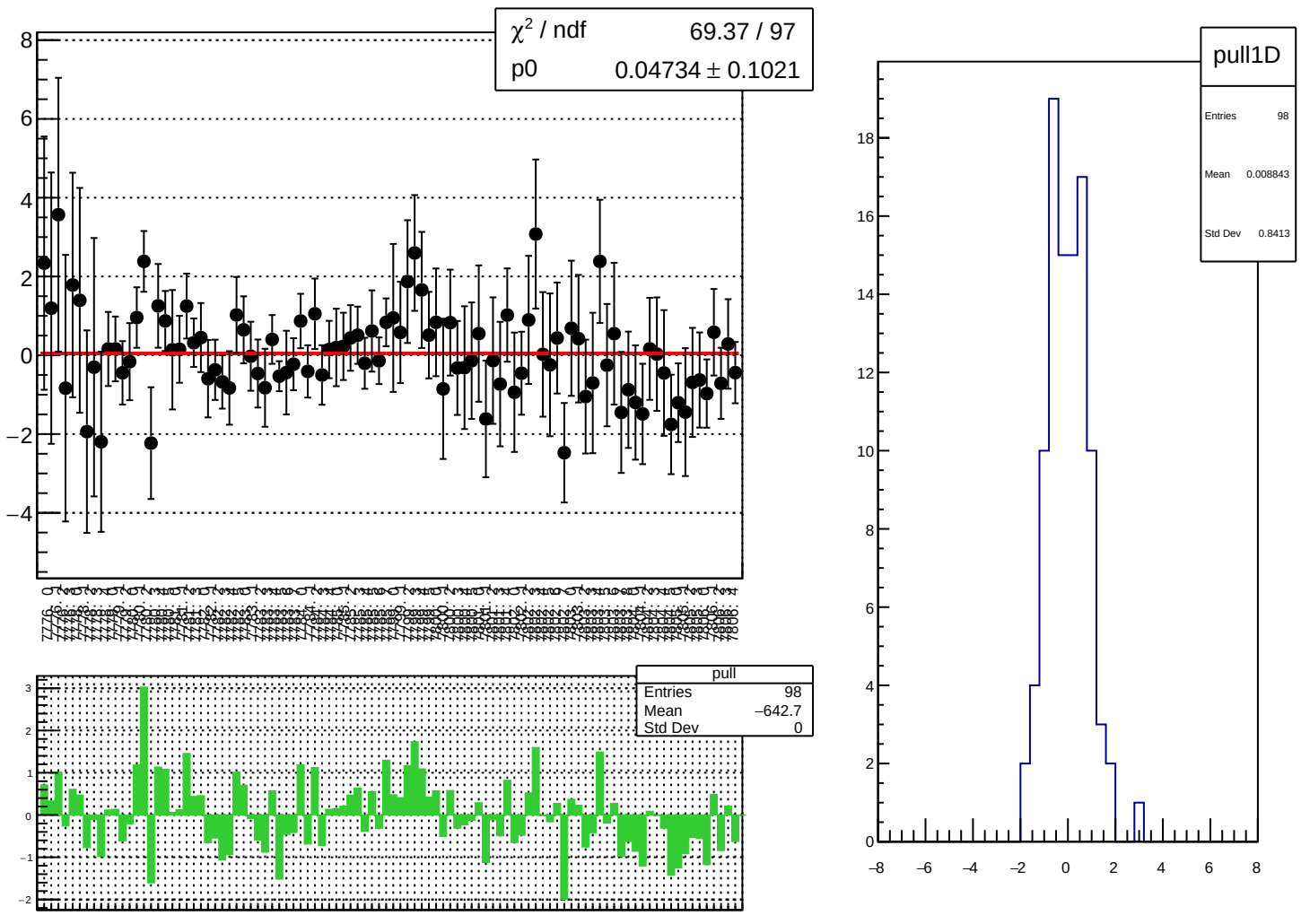

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.38 / 97
p0 0.04736 ± 0.1021
pull
Entries 98
Mean −643.1
Std Dev 0

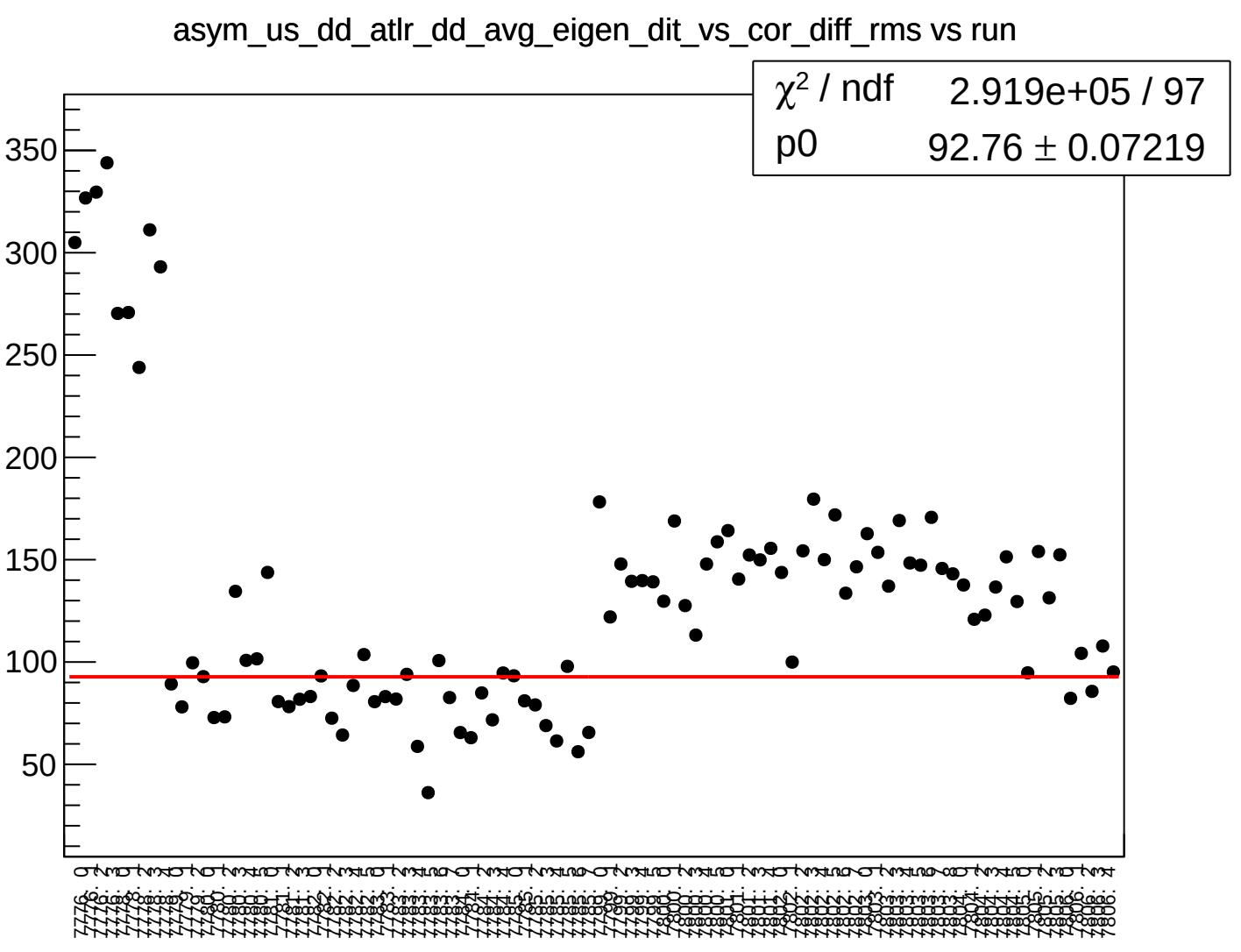

pull1D
Entries 98
Mean 0.008838
Std Dev 0.8413

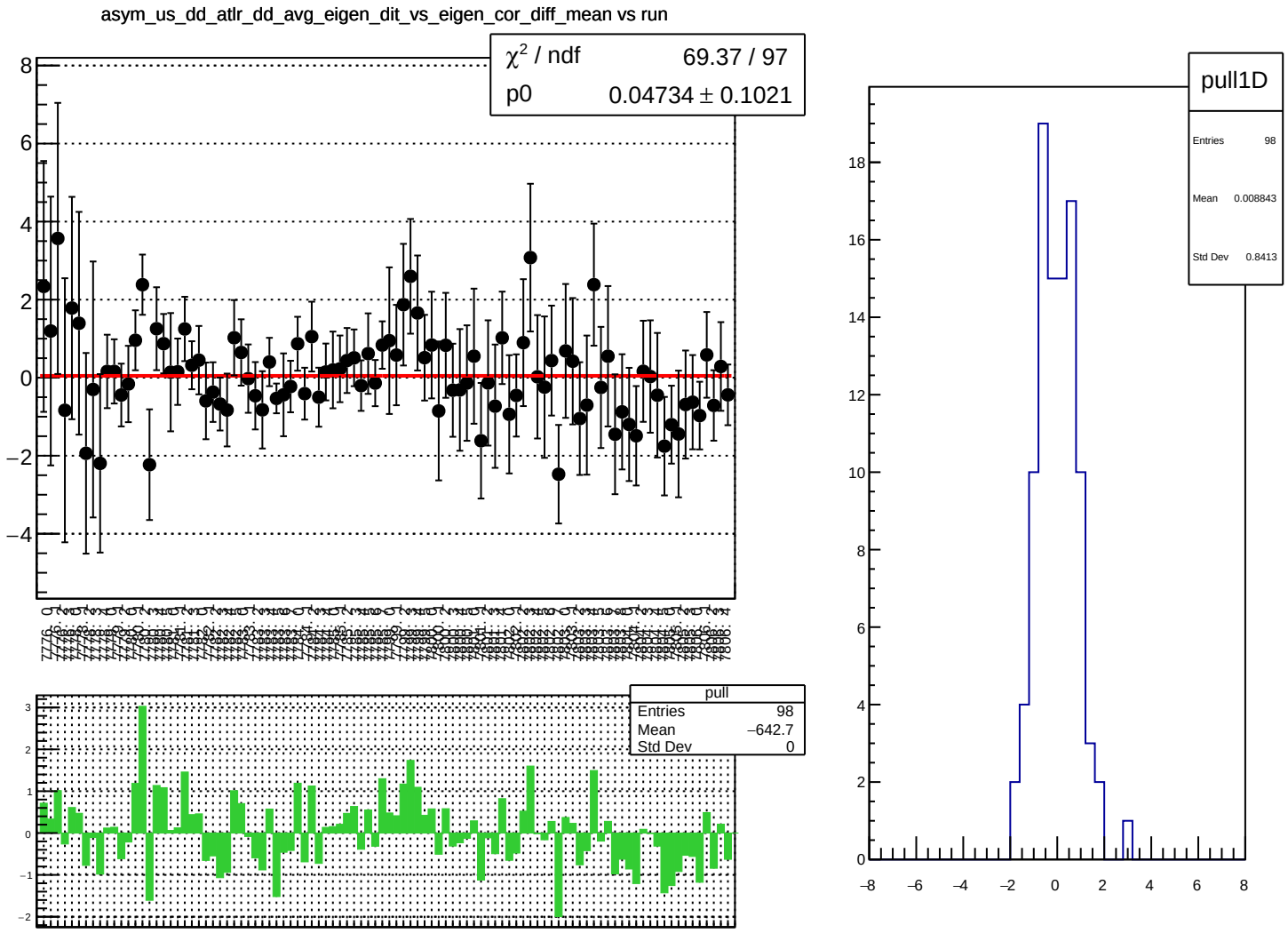

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.919e+05 / 97
p0 92.76 ± 0.0722
350
300
250
200
150
100
50

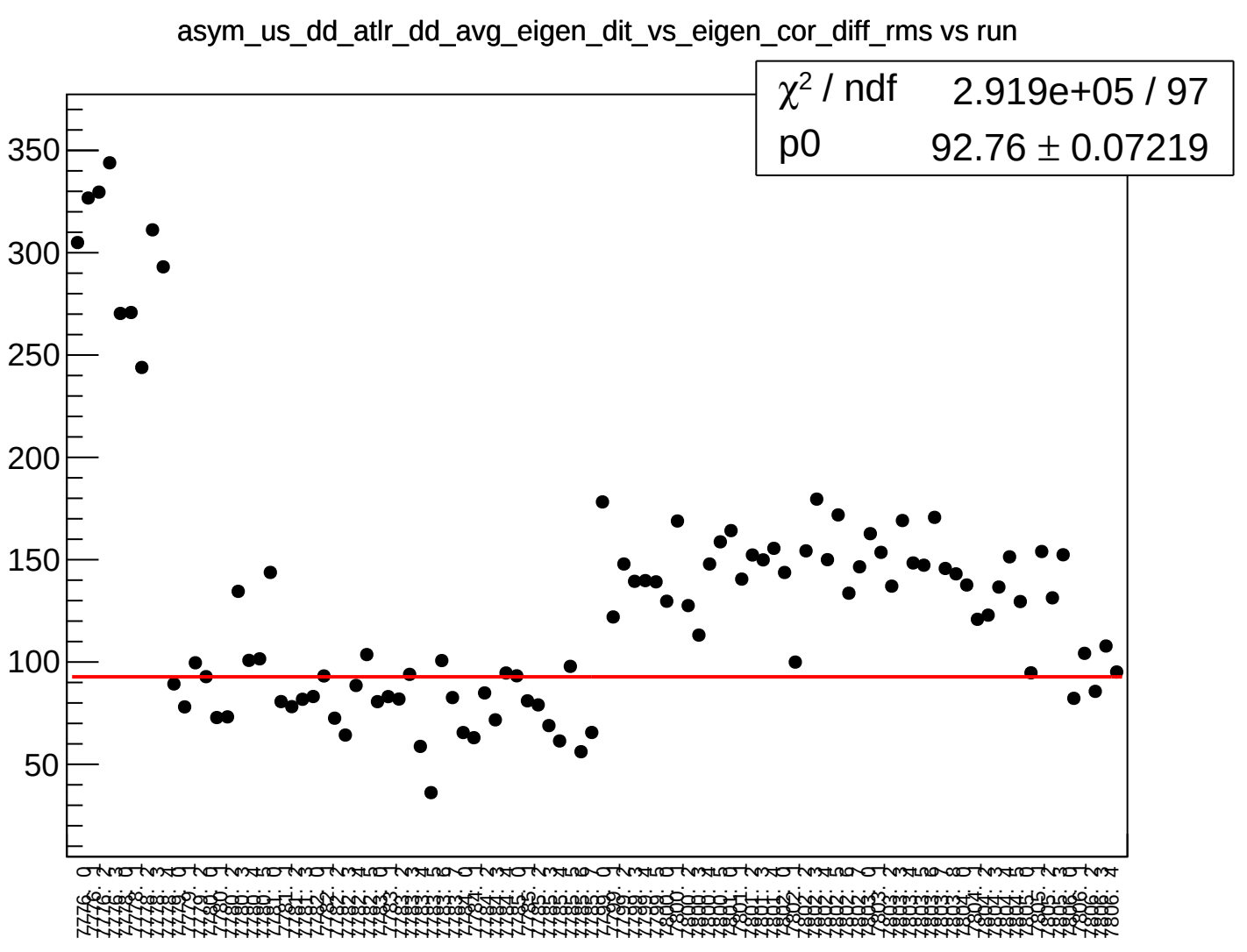

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.23 / 97
p0 −4.928e−06 ± 1.322e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 98
Mean 49.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01356
Std Dev 0.9047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

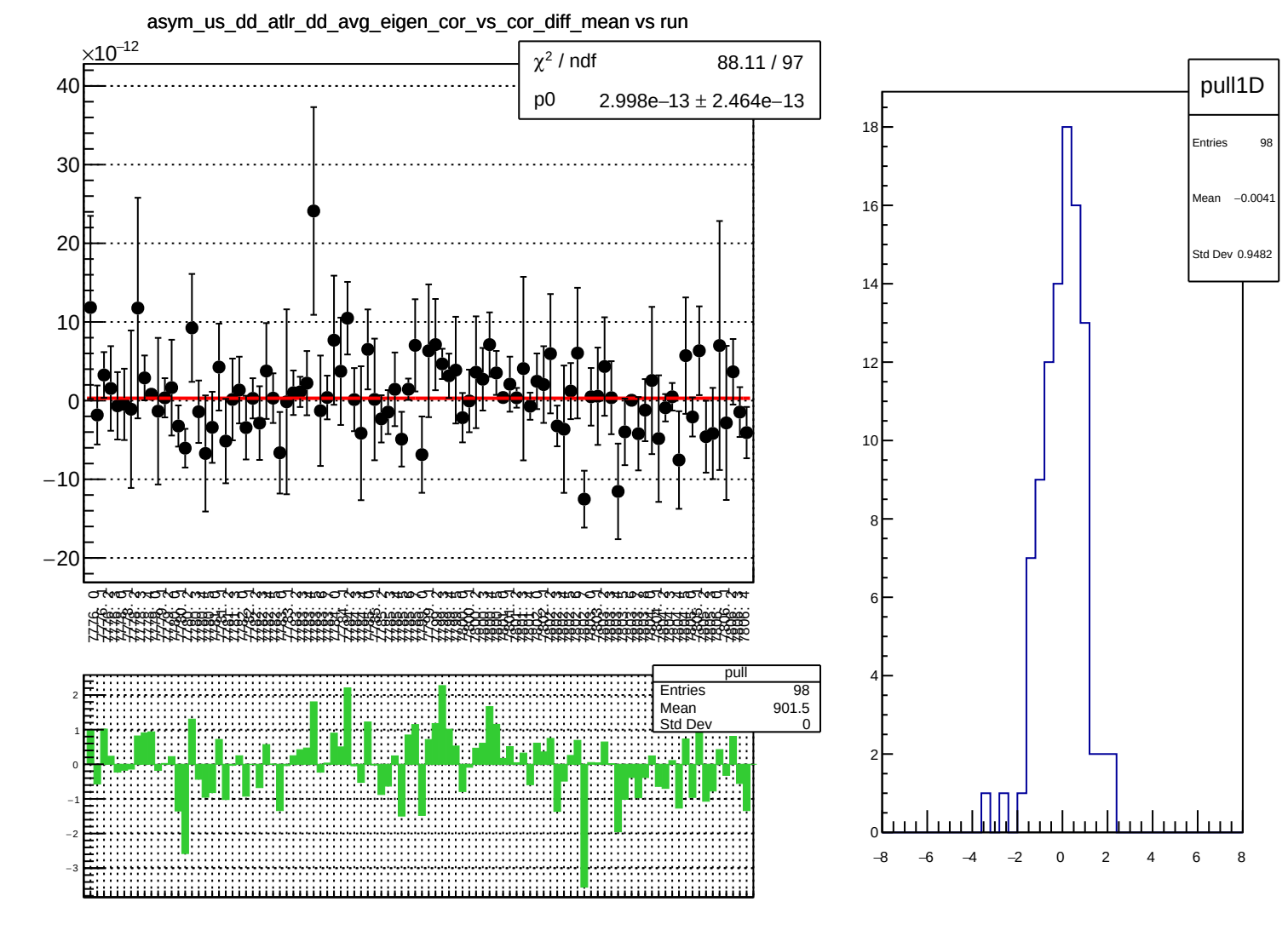

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.999e+04 / 97
p0 0.01273 ± 9.35e−06
0.02
0.018
0.016
0.014
0.012
0.01

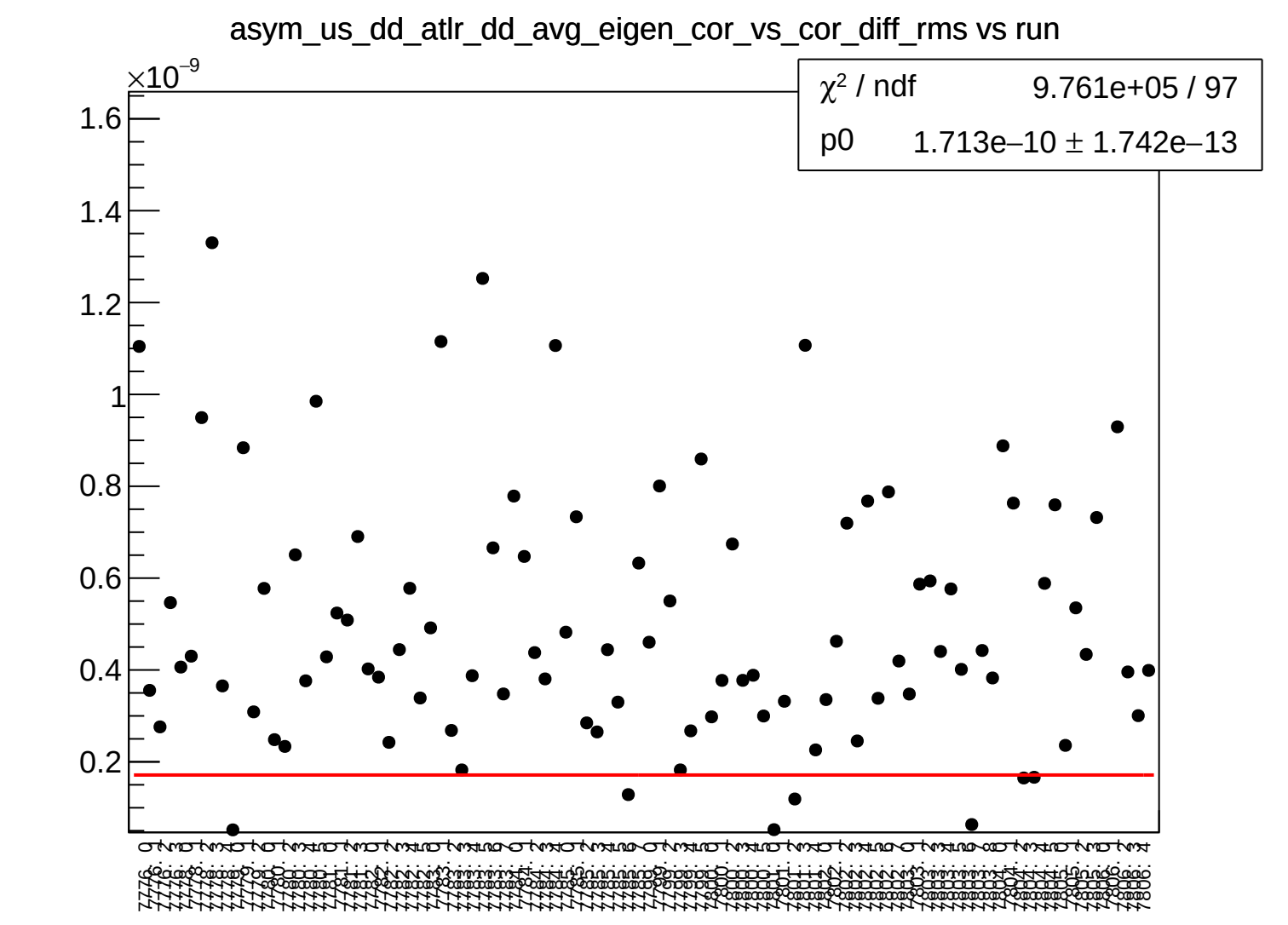

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.37 / 97
p0 0.04734 ± 0.1021
pull
Entries 98
Mean −642.7
Std Dev 0
pull1D
Entries 98
Mean 0.008843
Std Dev 0.8413

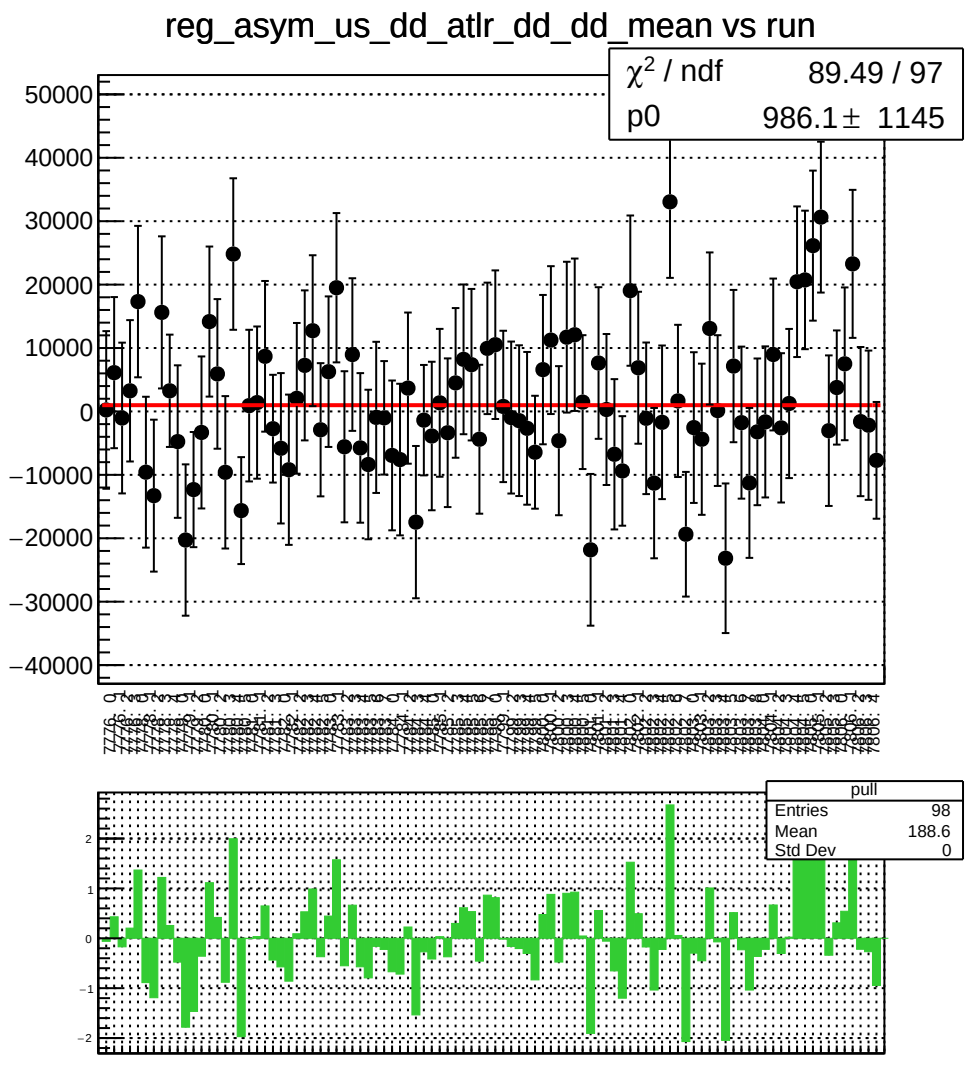

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.919e+05 / 97
p0 92.76 ± 0.07219
350
300
250
200
150
100
50

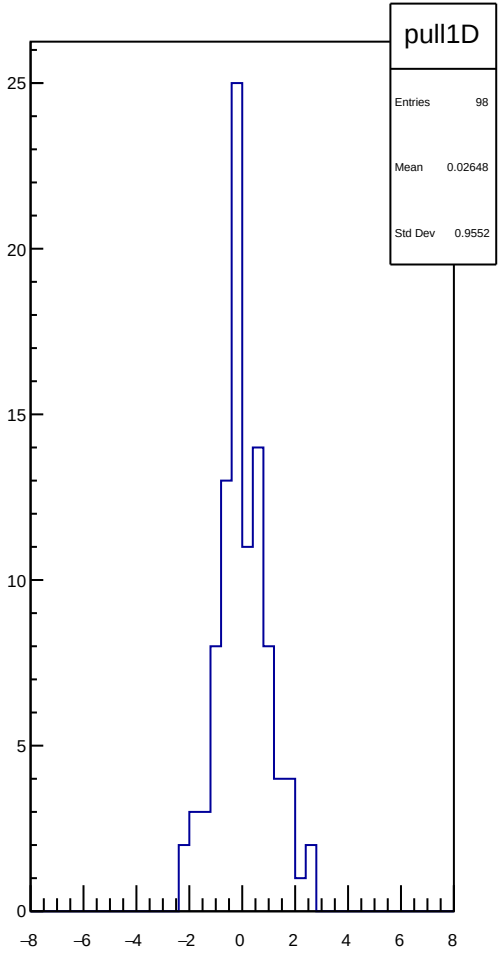

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.37 / 97
p0 0.04734 ± 0.1021
pull
Entries 98
Mean −642.7
Std Dev 0
pull1D
Entries 98
Mean 0.008843
Std Dev 0.8413

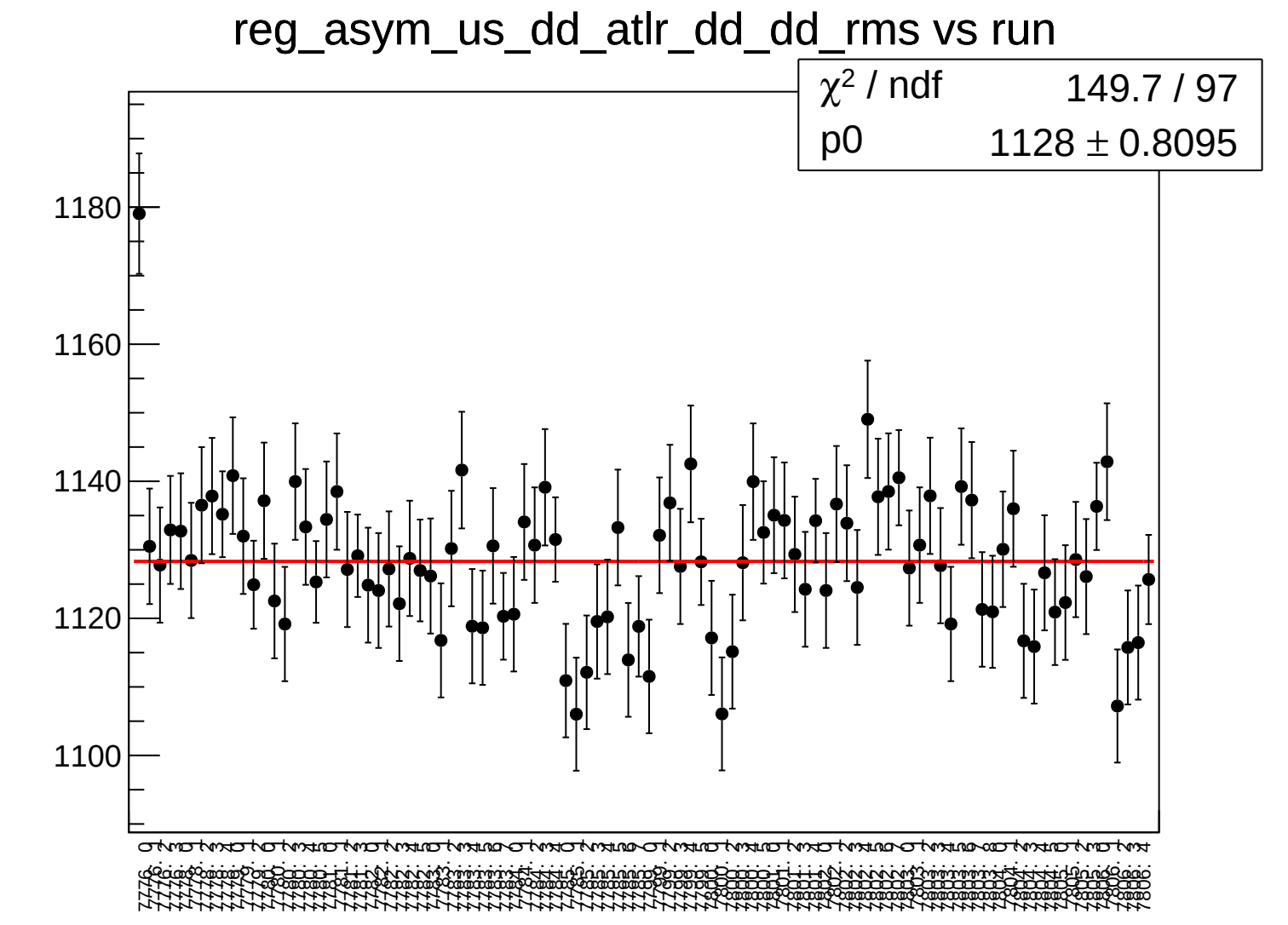

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.919e+05 / 97
p0 92.76 ± 0.07219
350
300
250
200
150
100
50

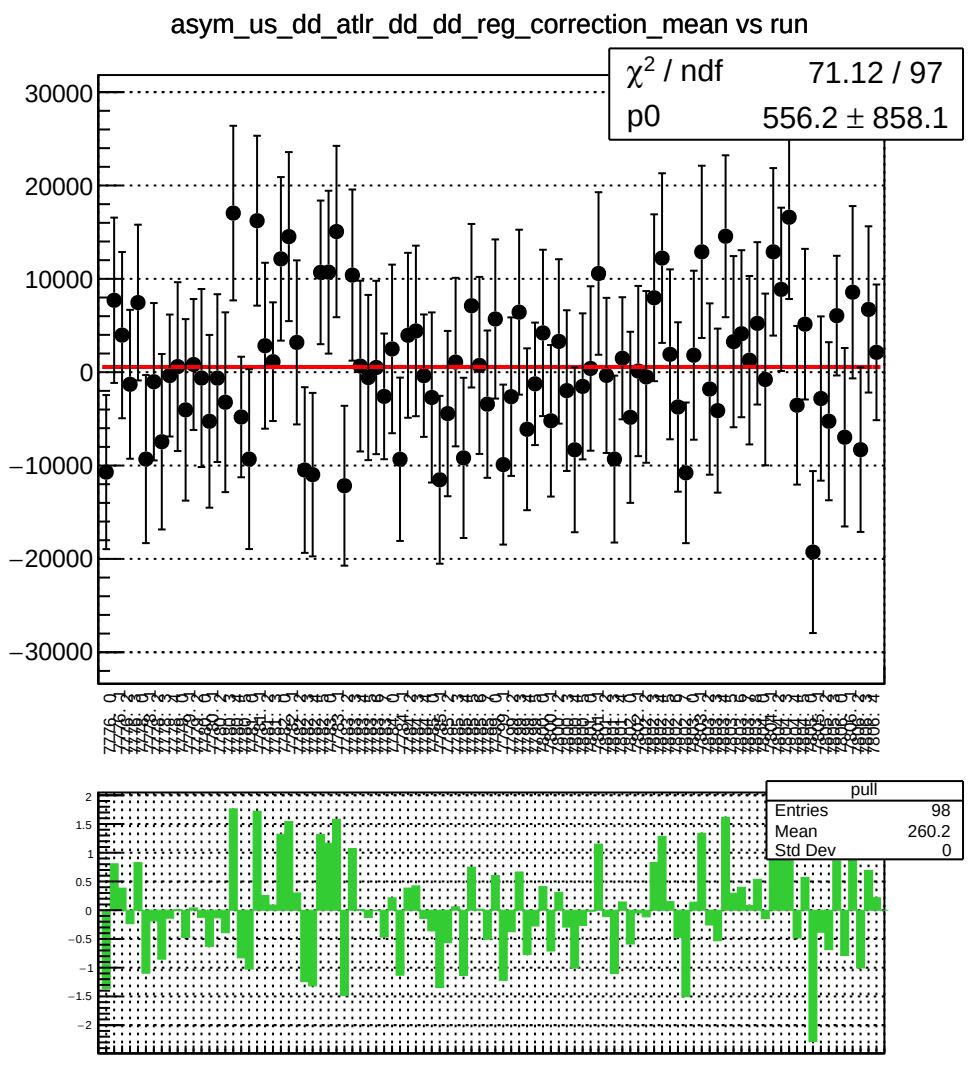

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.11 / 97
p0 2.998e−13 ± 2.464e−13
pull
Entries 98
Mean 901.5
Std Dev 0
pull1D
Entries 98
Mean −0.0041
Std Dev 0.9482

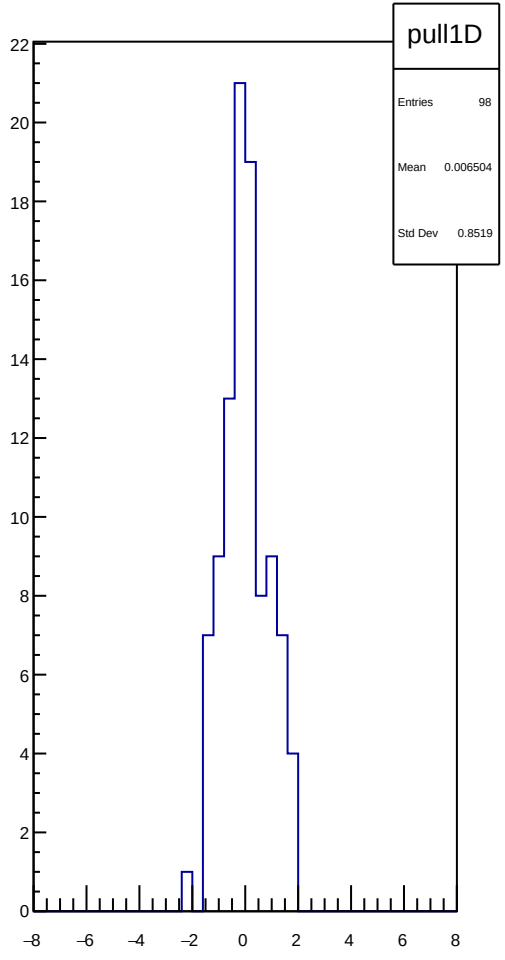

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.761e+05 / 97
p0 1.713e−10 ± 1.742e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

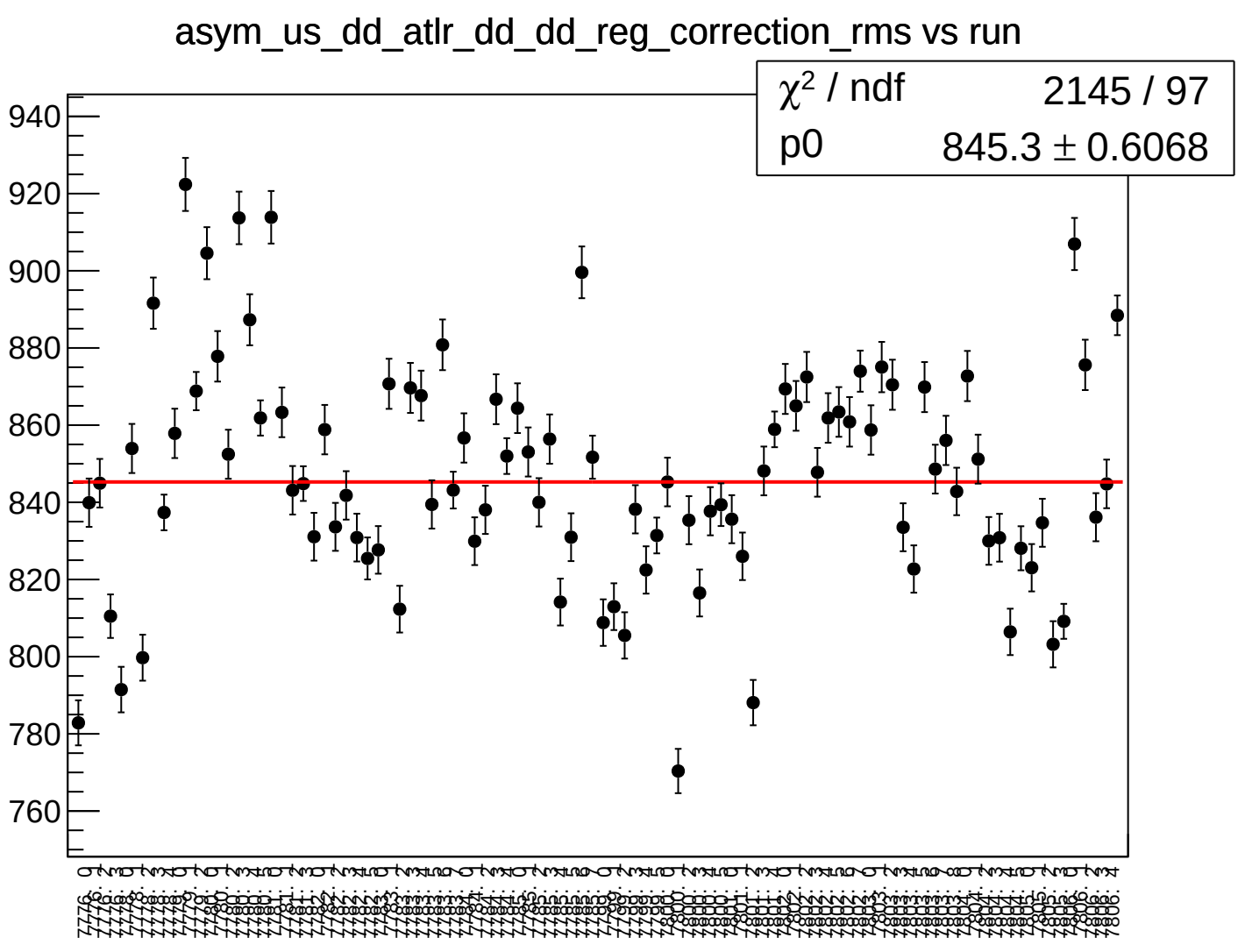

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 89.49 / 97
p0 986.1 ± 1145
pull
Entries 98
Mean 188.6
Std Dev 0

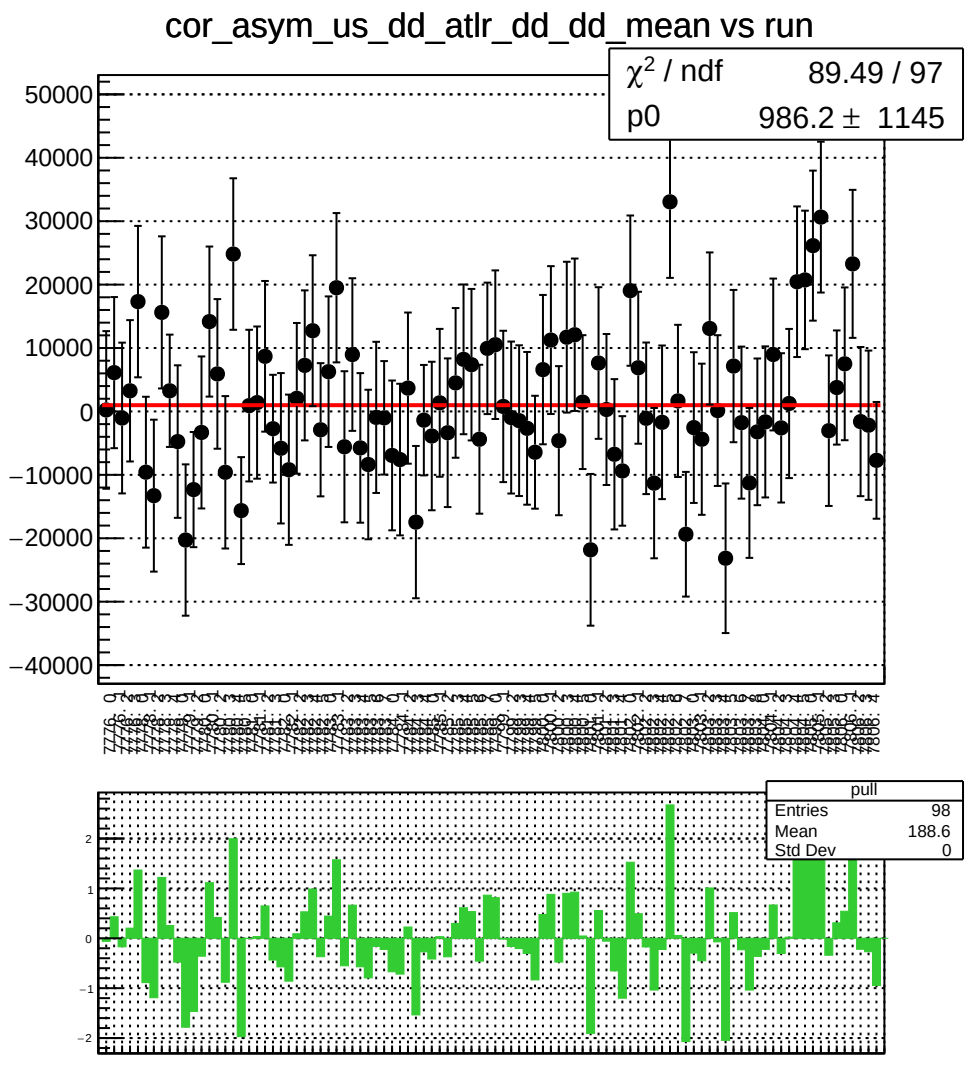

pull1D
Entries 98
Mean 0.02648
Std Dev 0.9552

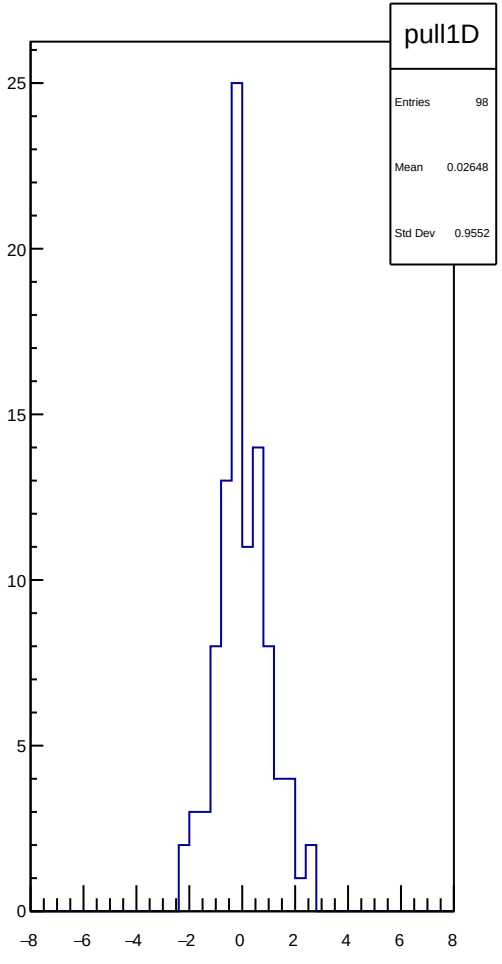

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 149.7 / 97
p0 1128 ± 0.8095
1180
1160
1140
1120
1100

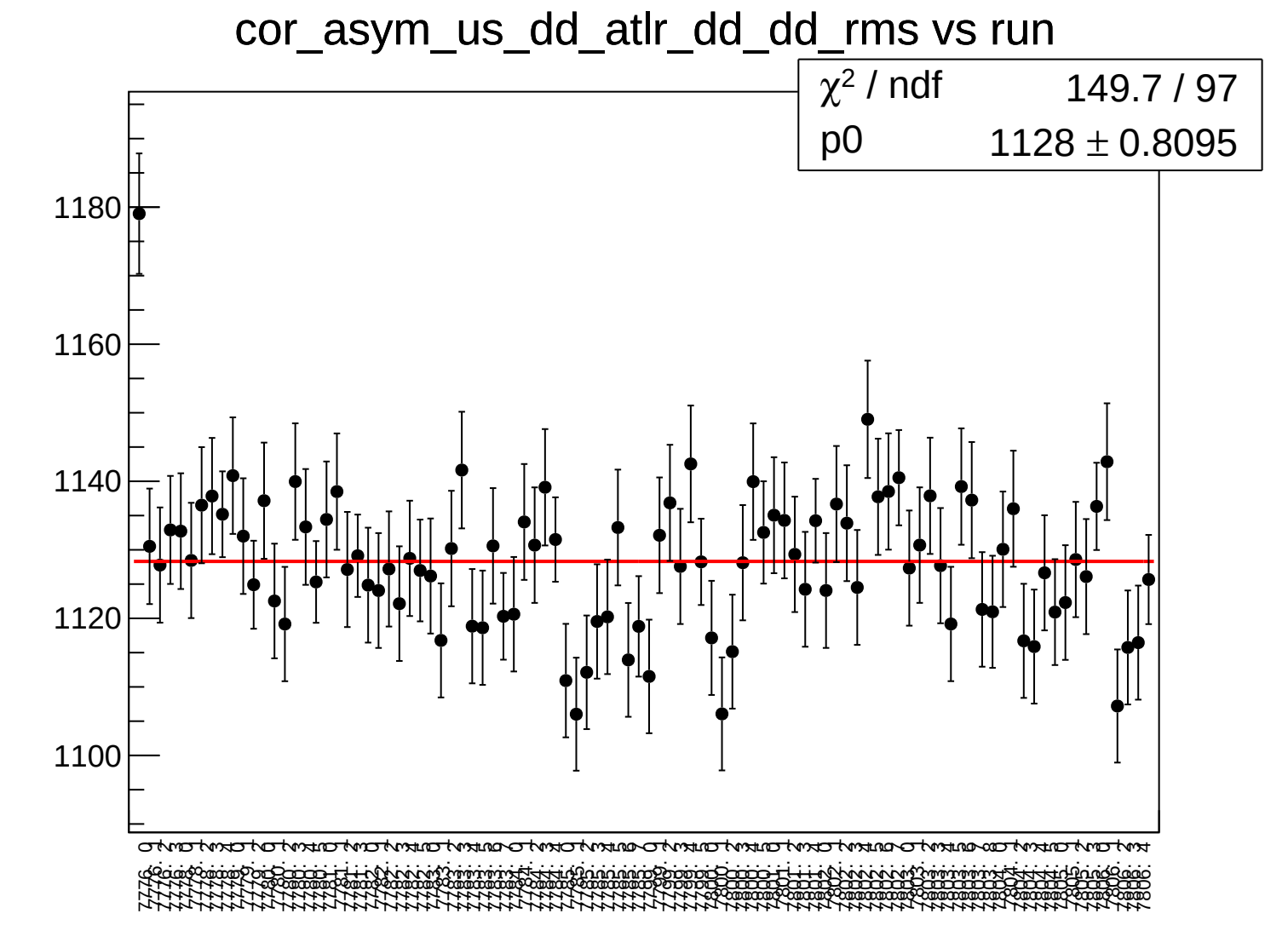

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 71.12 / 97
p0 556.2 ± 858.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 260.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

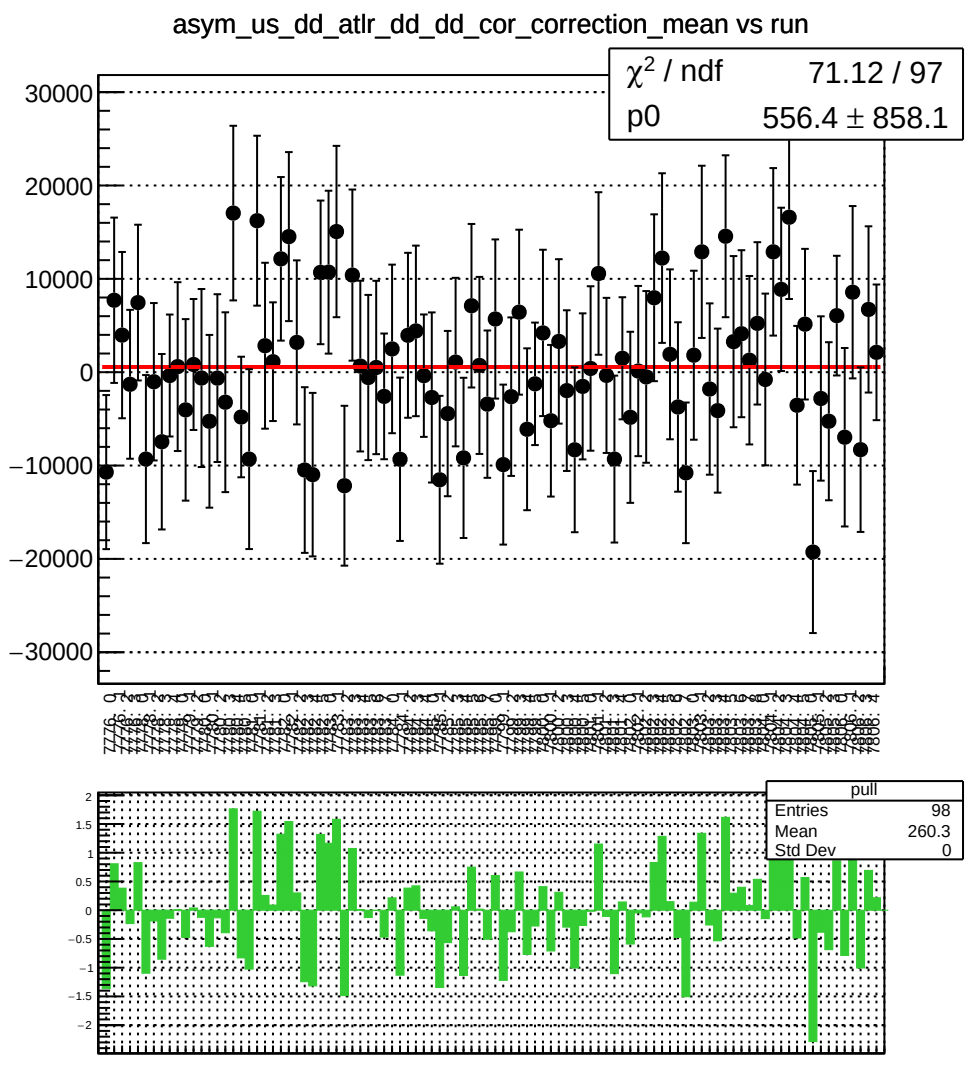

pull1D
Entries 98
Mean 0.006504
Std Dev 0.8519
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

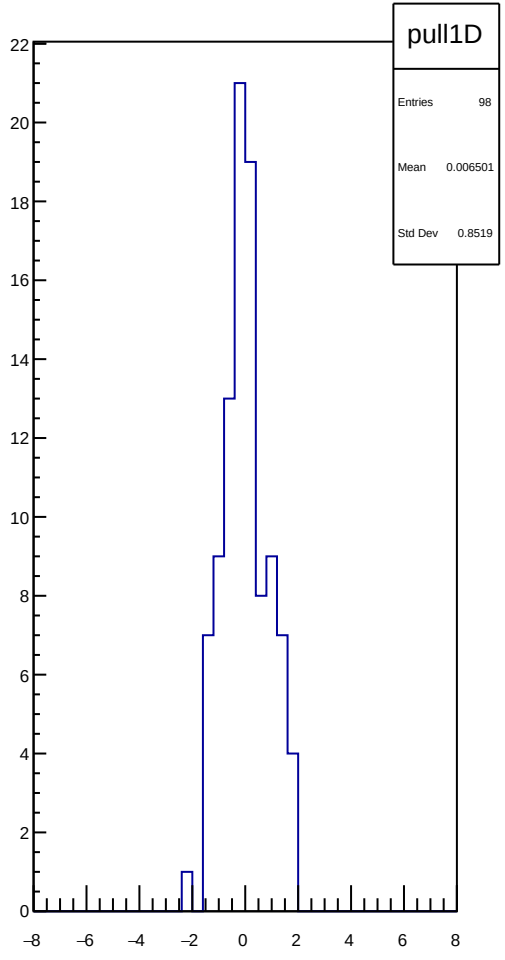

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 2145 / 97
p0 845.3 ± 0.6068
940
920
900
880
860
840
820
800
780
760

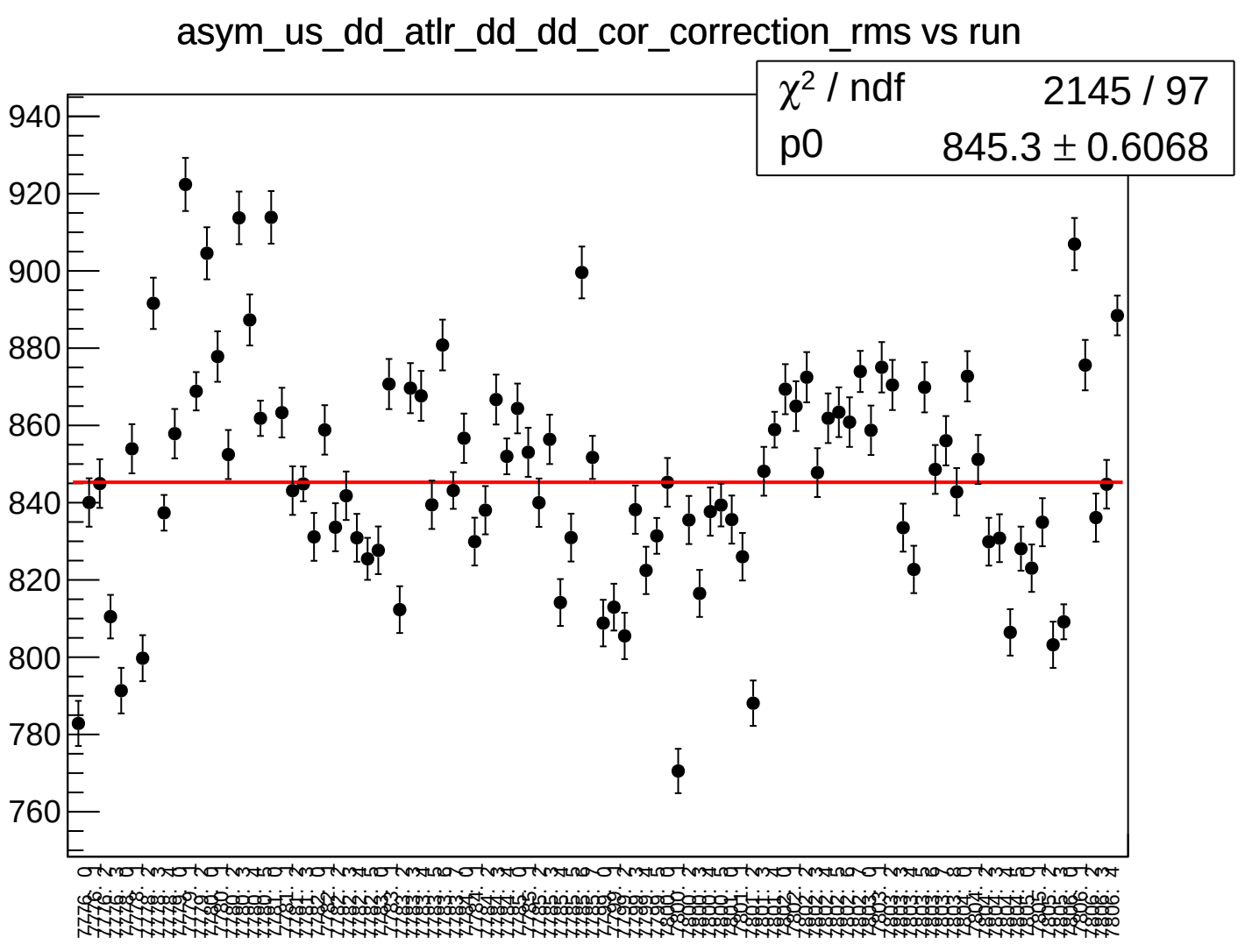

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 89.49 / 97
p0 986.2 ± 1145
pull
Entries 98
Mean 188.6
Std Dev 0

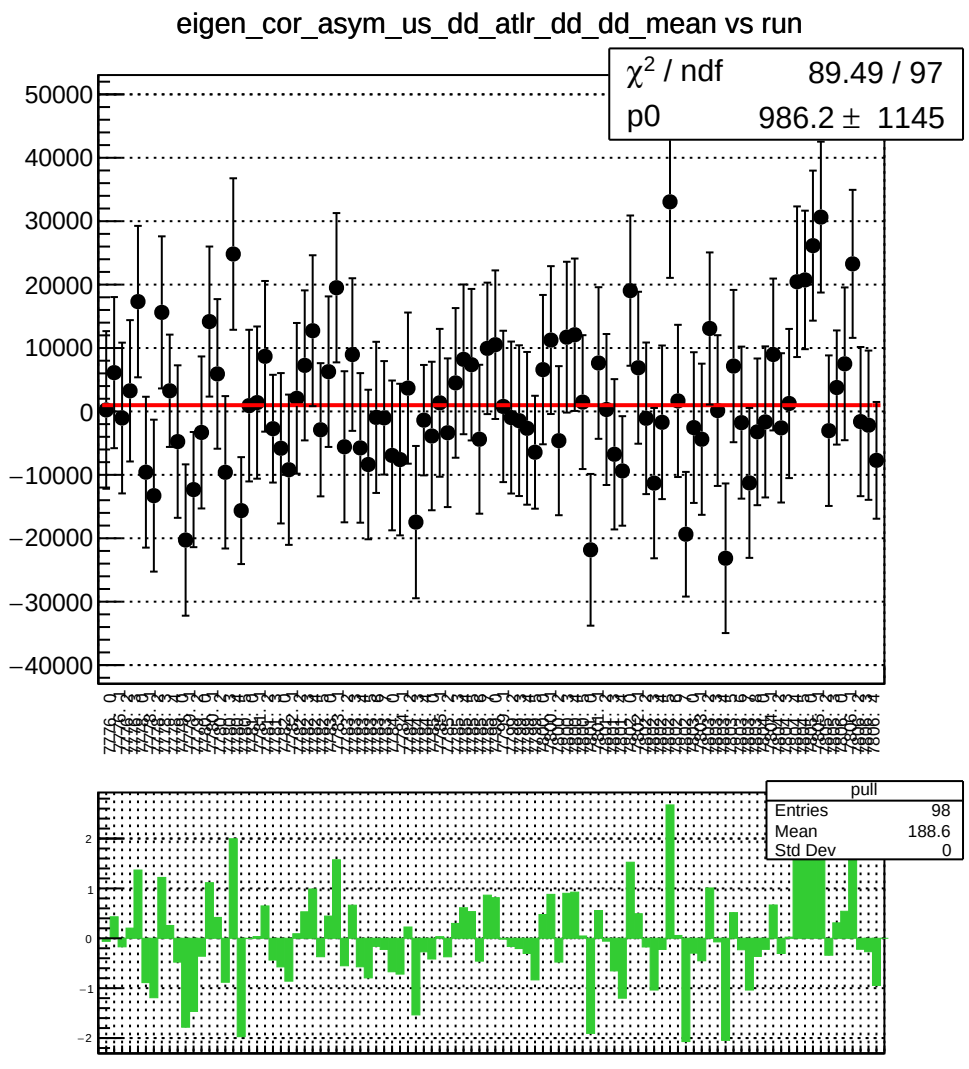

pull1D
Entries 98
Mean 0.02648
Std Dev 0.9552

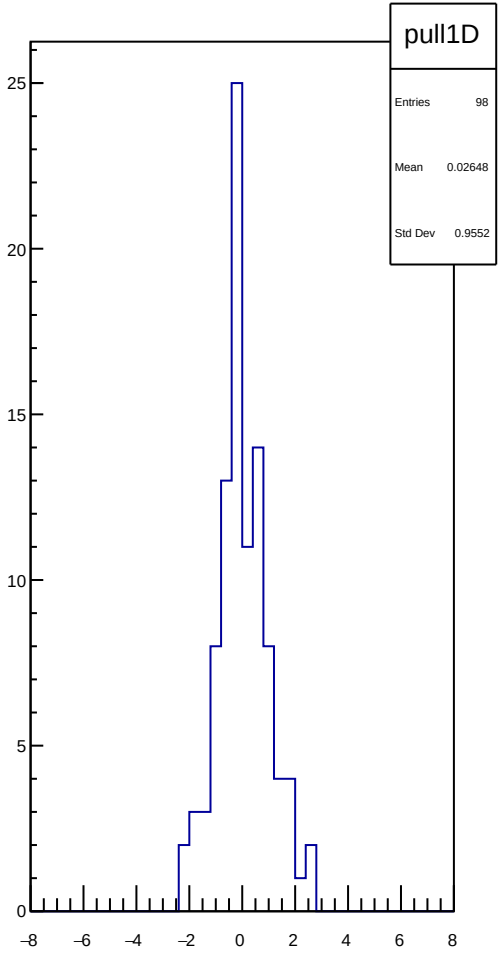

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 149.7 / 97
p0 1128 ± 0.8095
1180
1160
1140
1120
1100

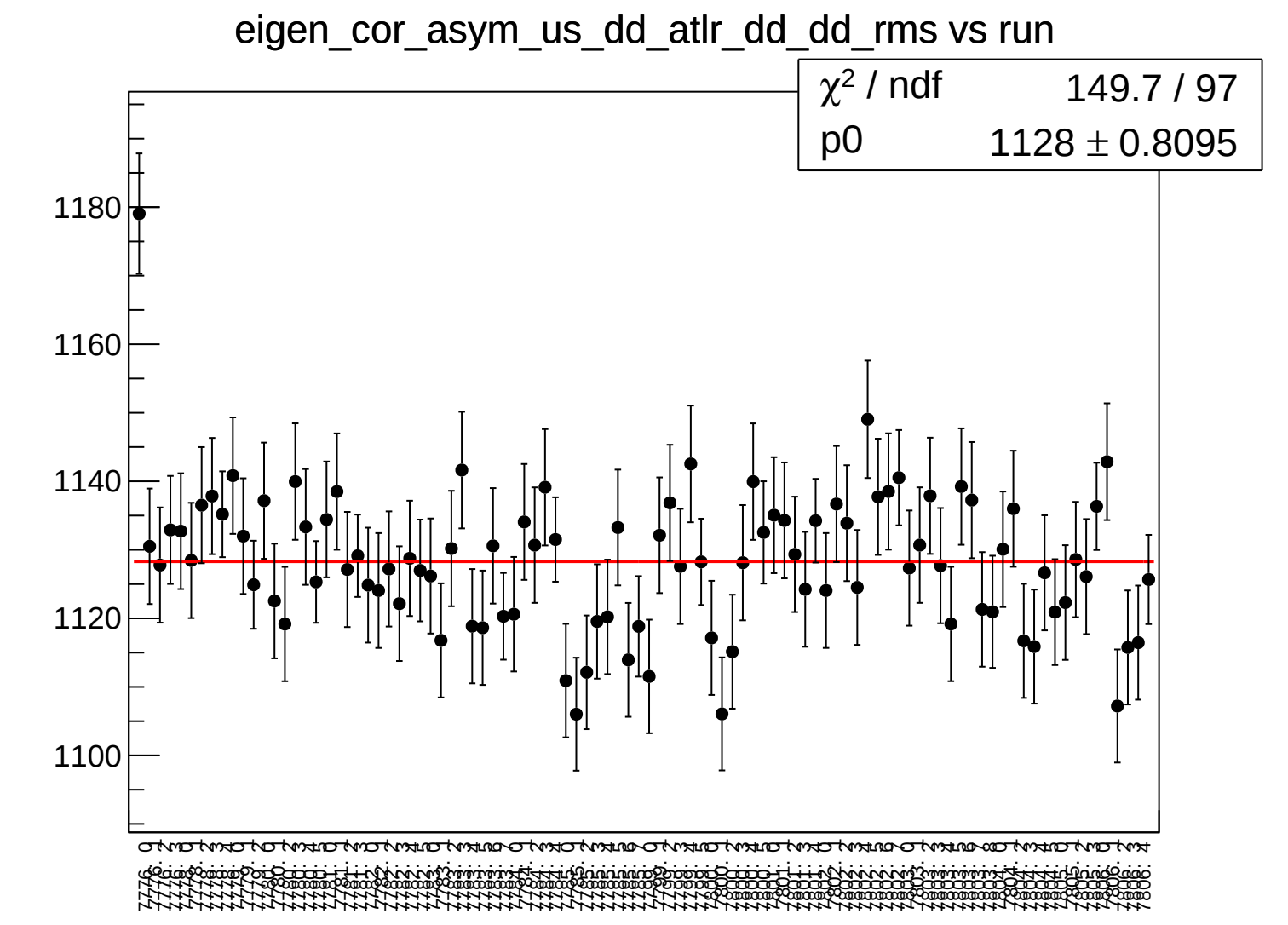

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 71.12 / 97
p0 556.4 ± 858.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 260.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

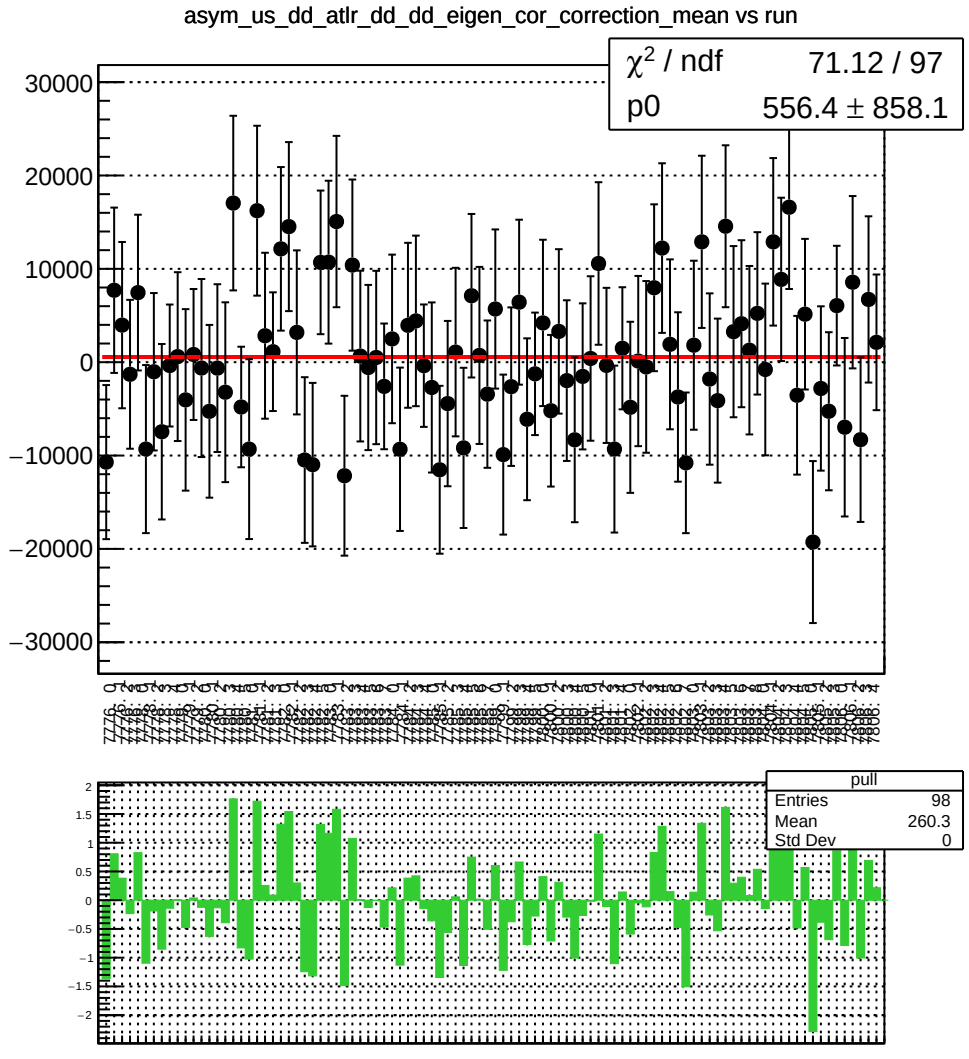

pull1D
Entries 98
Mean 0.006501
Std Dev 0.8519
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

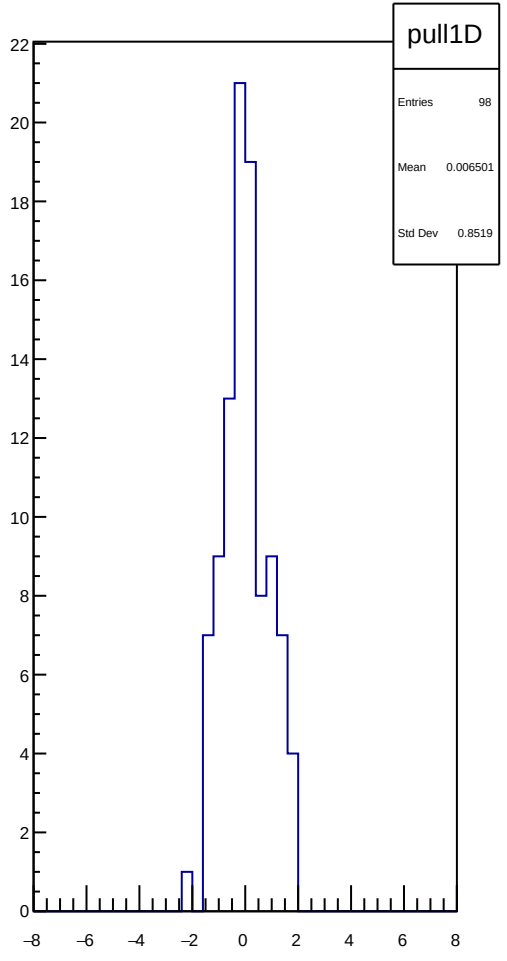

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 2145 / 97
p0 845.3 ± 0.6068
940
920
900
880
860
840
820
800
780
760

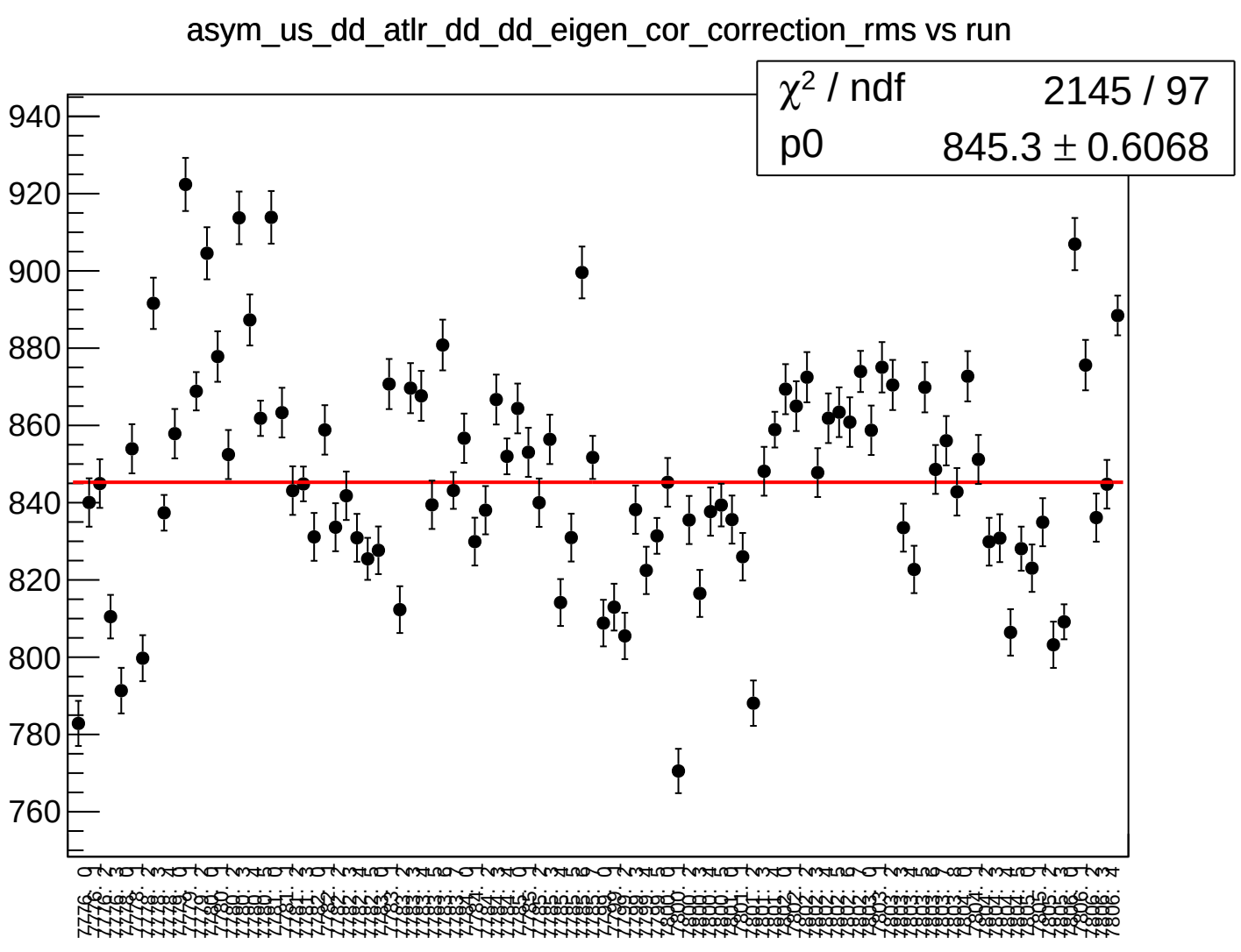

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 89.49 / 97
p0 986.2 ± 1145
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 188.6
Std Dev 0
2
1
0
−1
−2

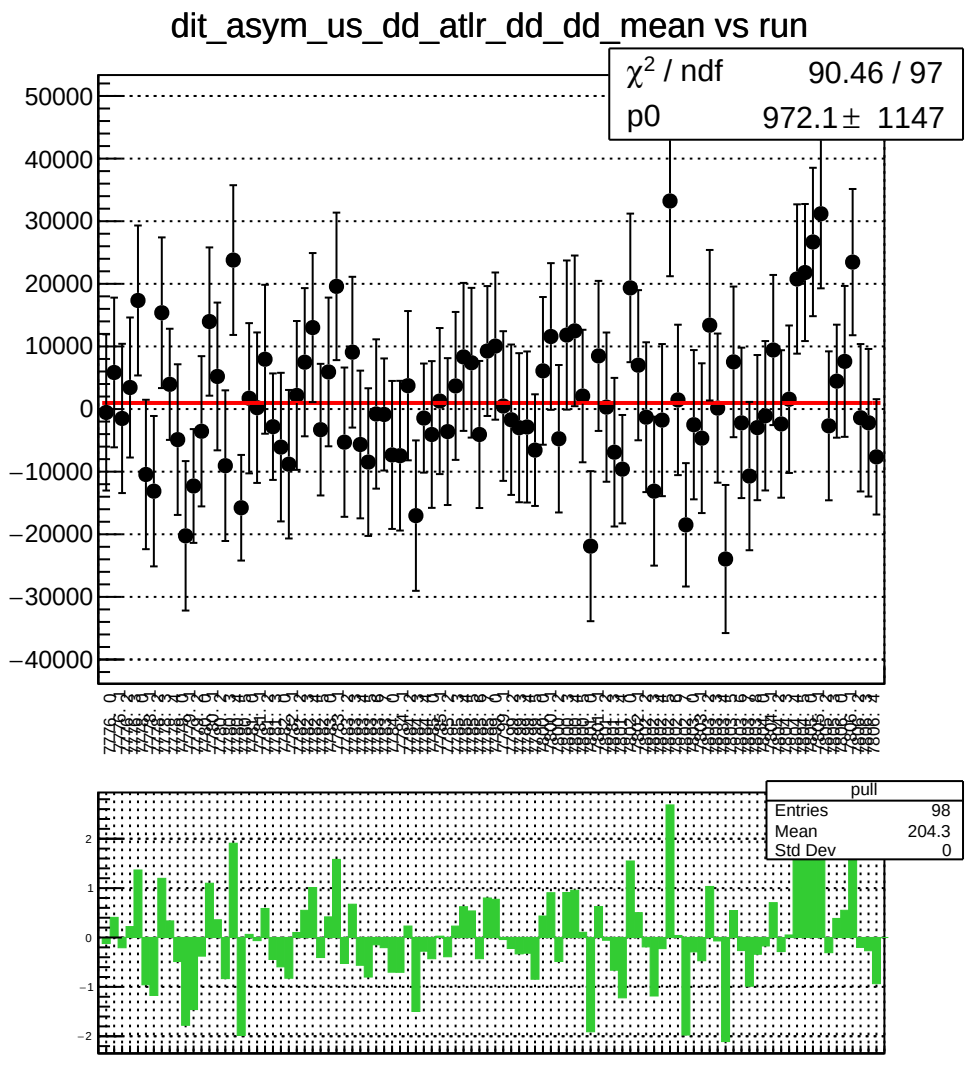

pull1D
Entries 98
Mean 0.02648
Std Dev 0.9552
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

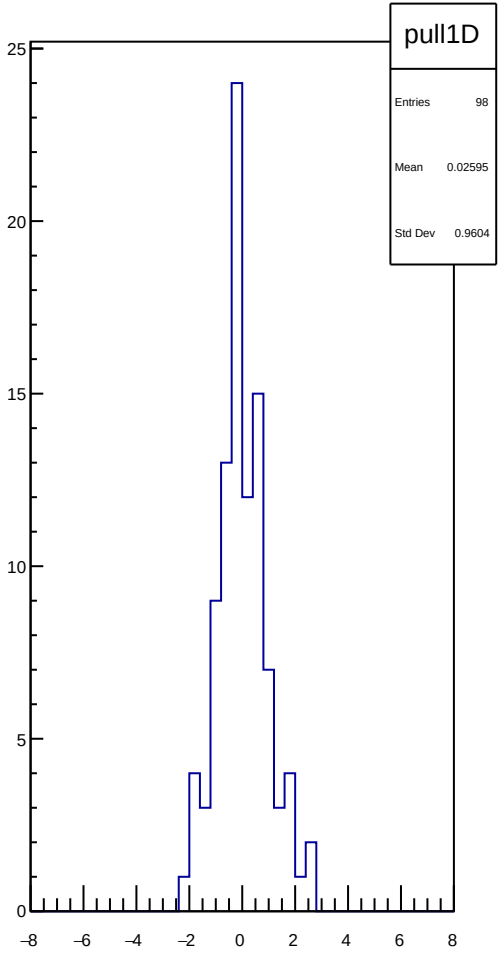

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 149.7 / 97
p0 1128 ± 0.8095
1180
1160
1140
1120
1100

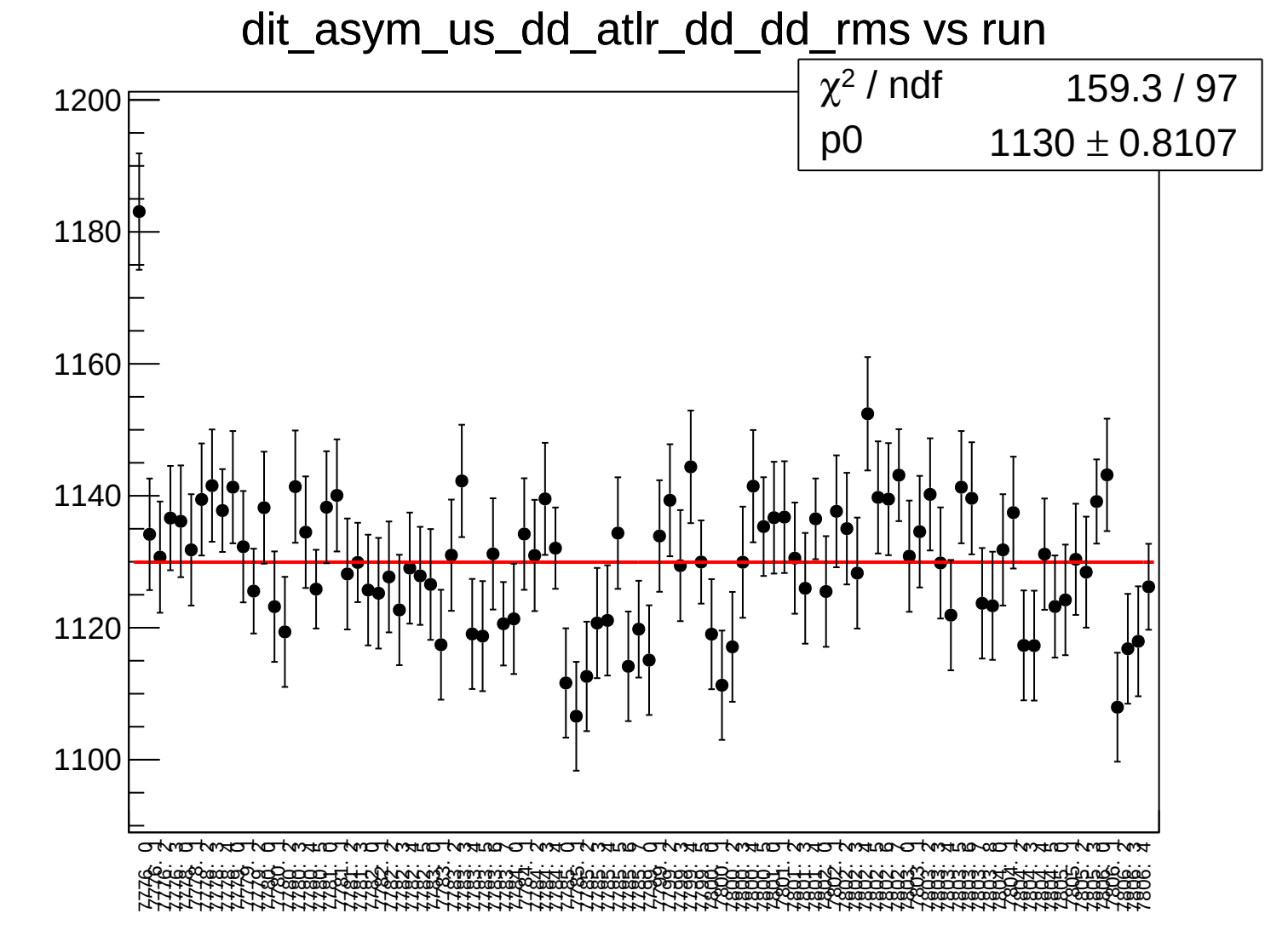

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.12 / 97
p0 556.4 ± 858.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 260.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

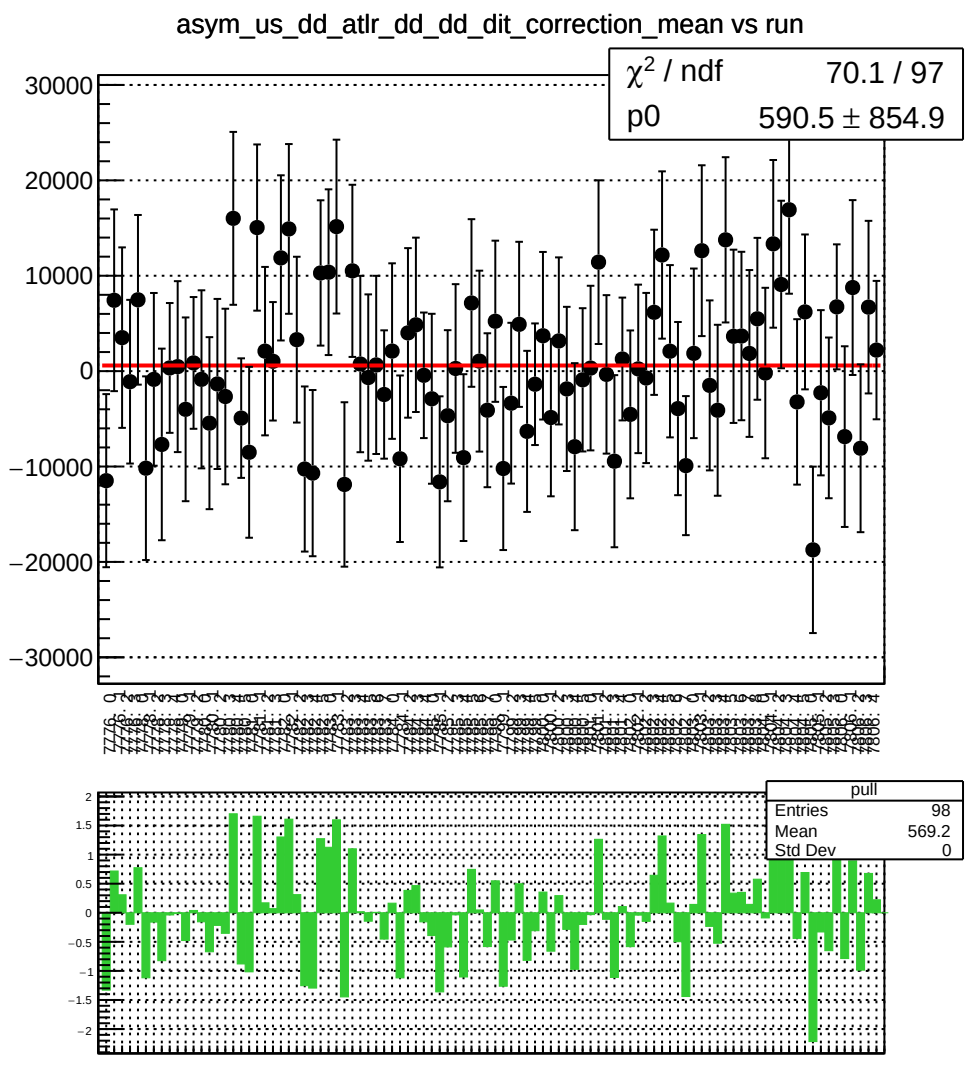

pull1D
Entries 98
Mean 0.006501
Std Dev 0.8519
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

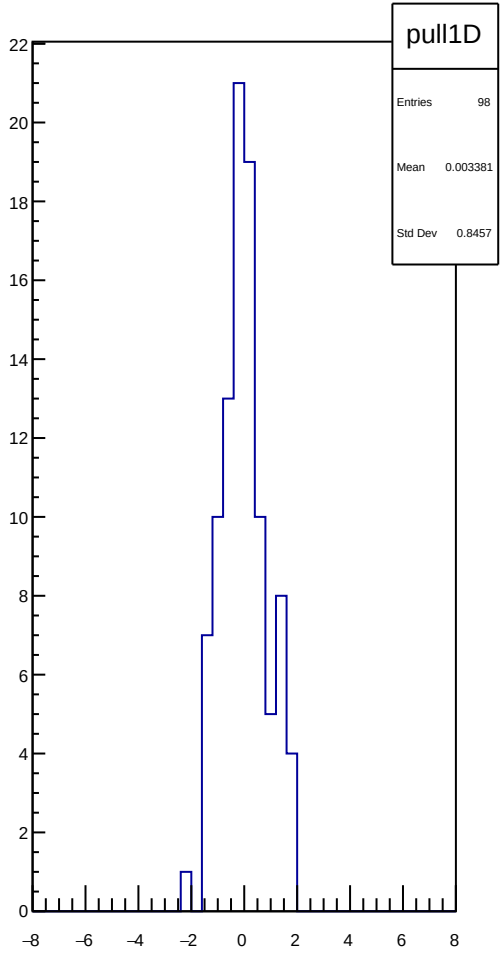

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2145 / 97
p0 845.3 ± 0.6068
940
920
900
880
860
840
820
800
780
760

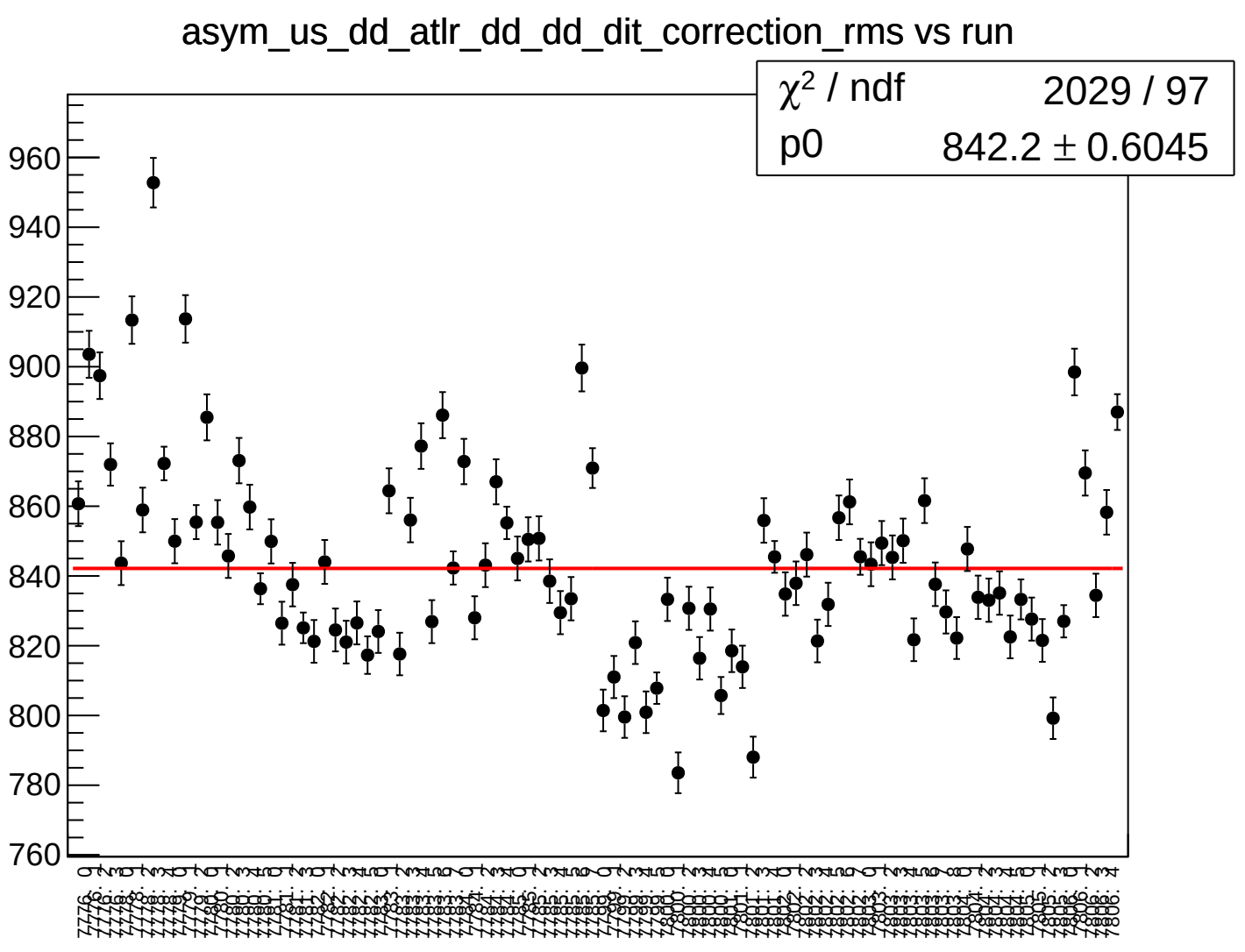

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.46 / 97
p0 972.1 ± 1147
pull
Entries 98
Mean 204.3
Std Dev 0

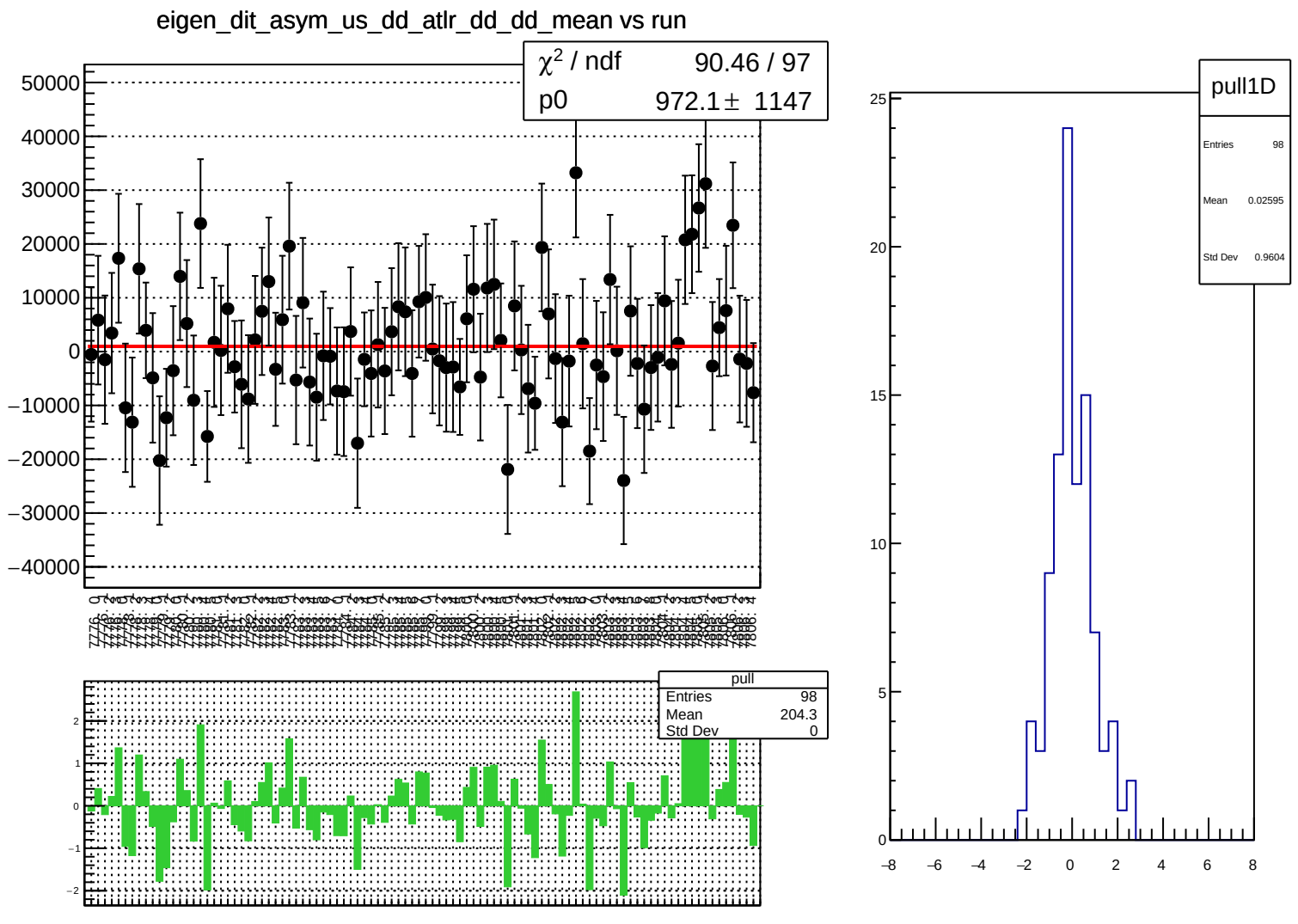

pull1D
Entries 98
Mean 0.02595
Std Dev 0.9604

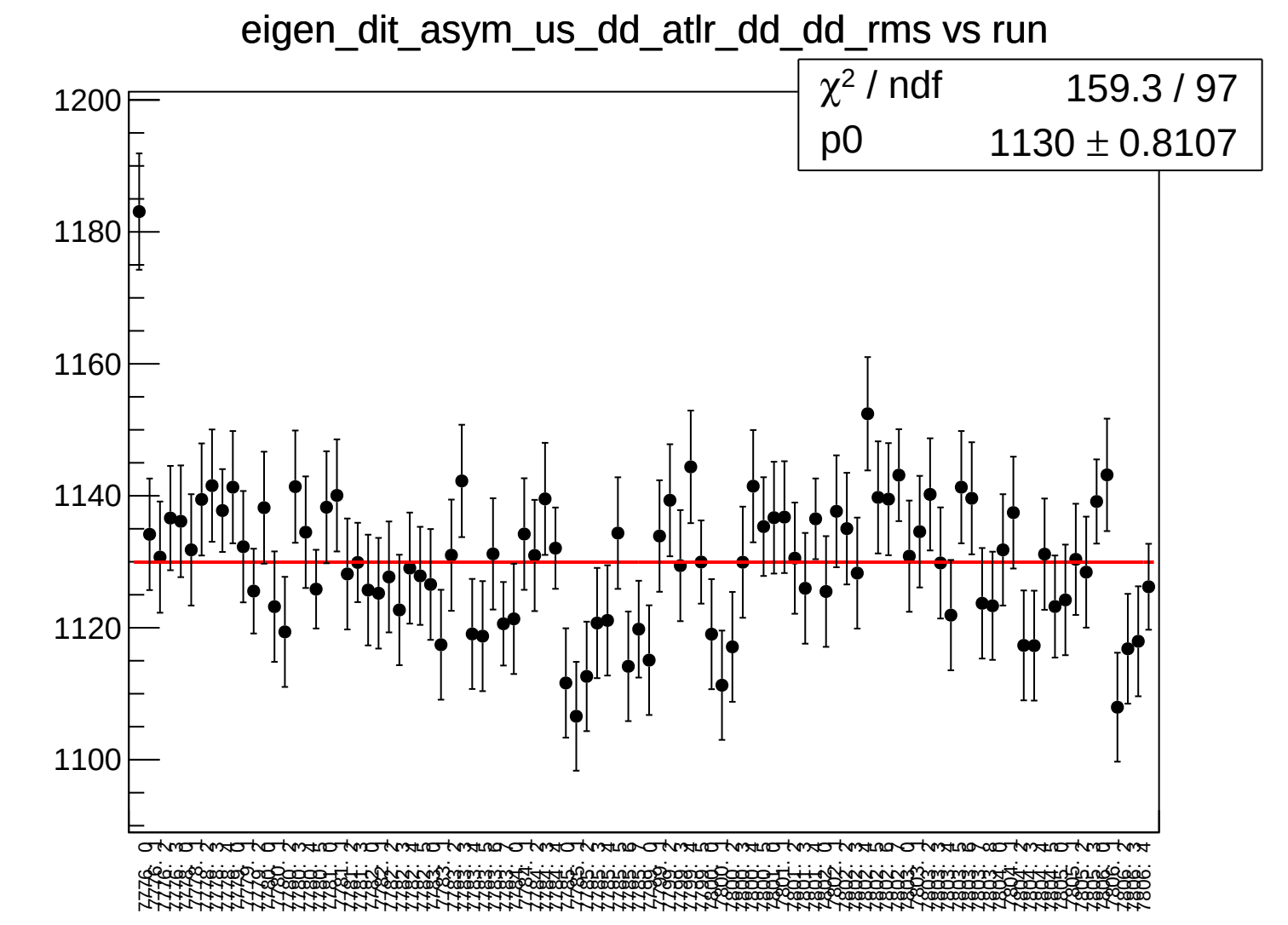

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 159.3 / 97
p0 1130 ± 0.8107
1200
1180
1160
1140
1120
1100

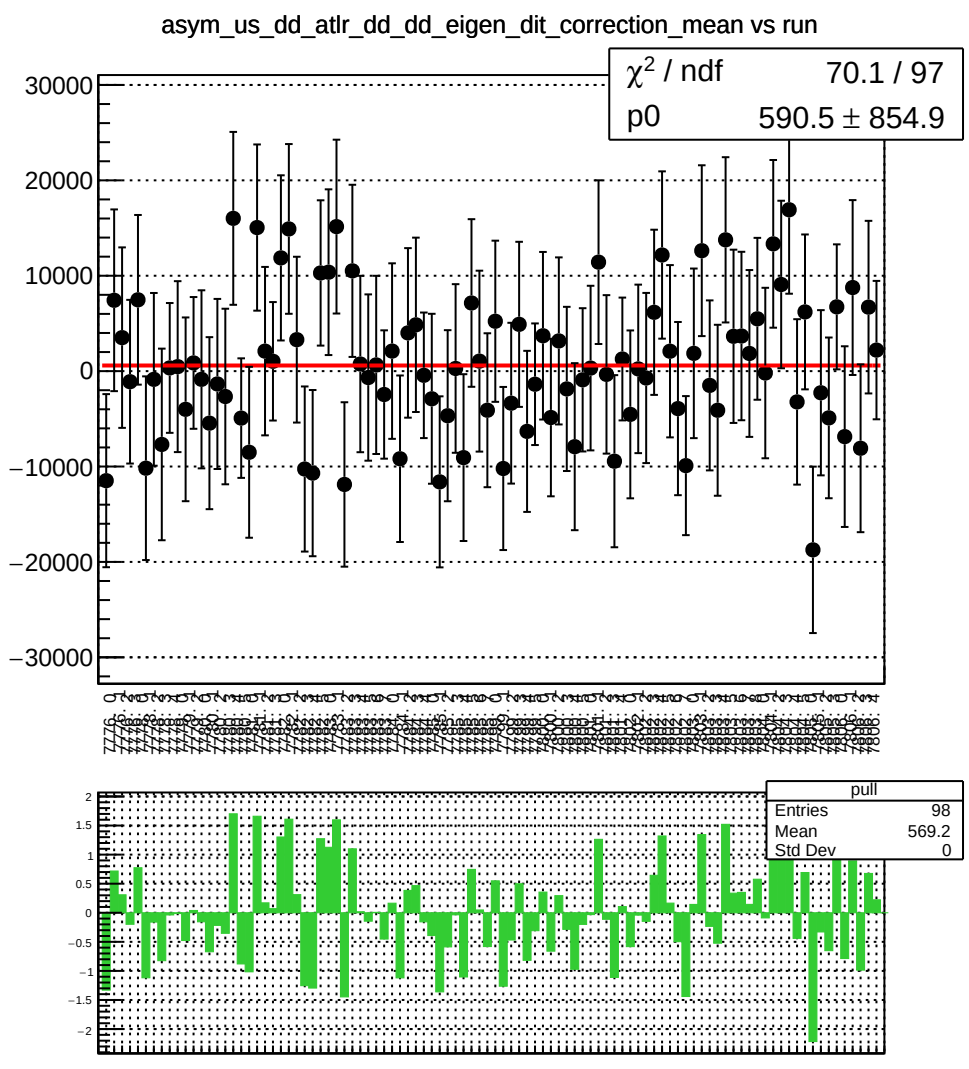

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 70.1 / 97
p0 590.5 ± 854.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 569.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

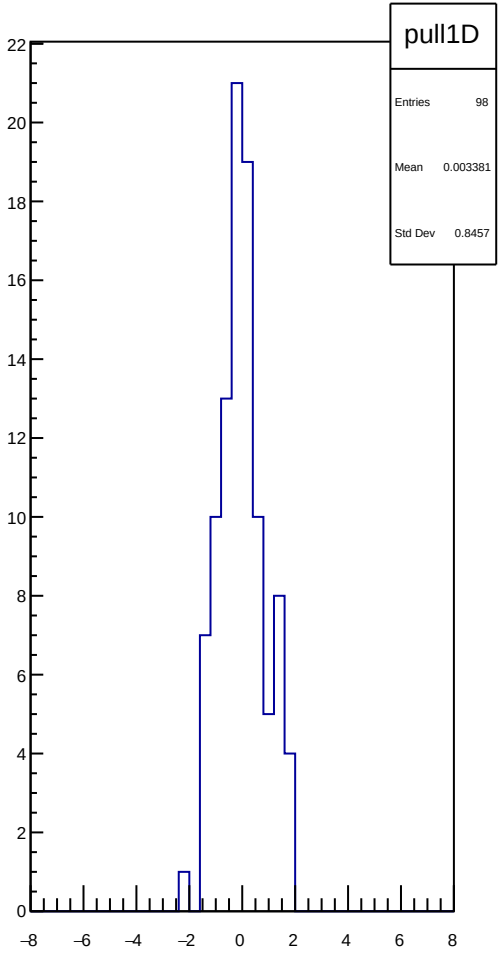

pull1D
Entries 98
Mean 0.003381
Std Dev 0.8457
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

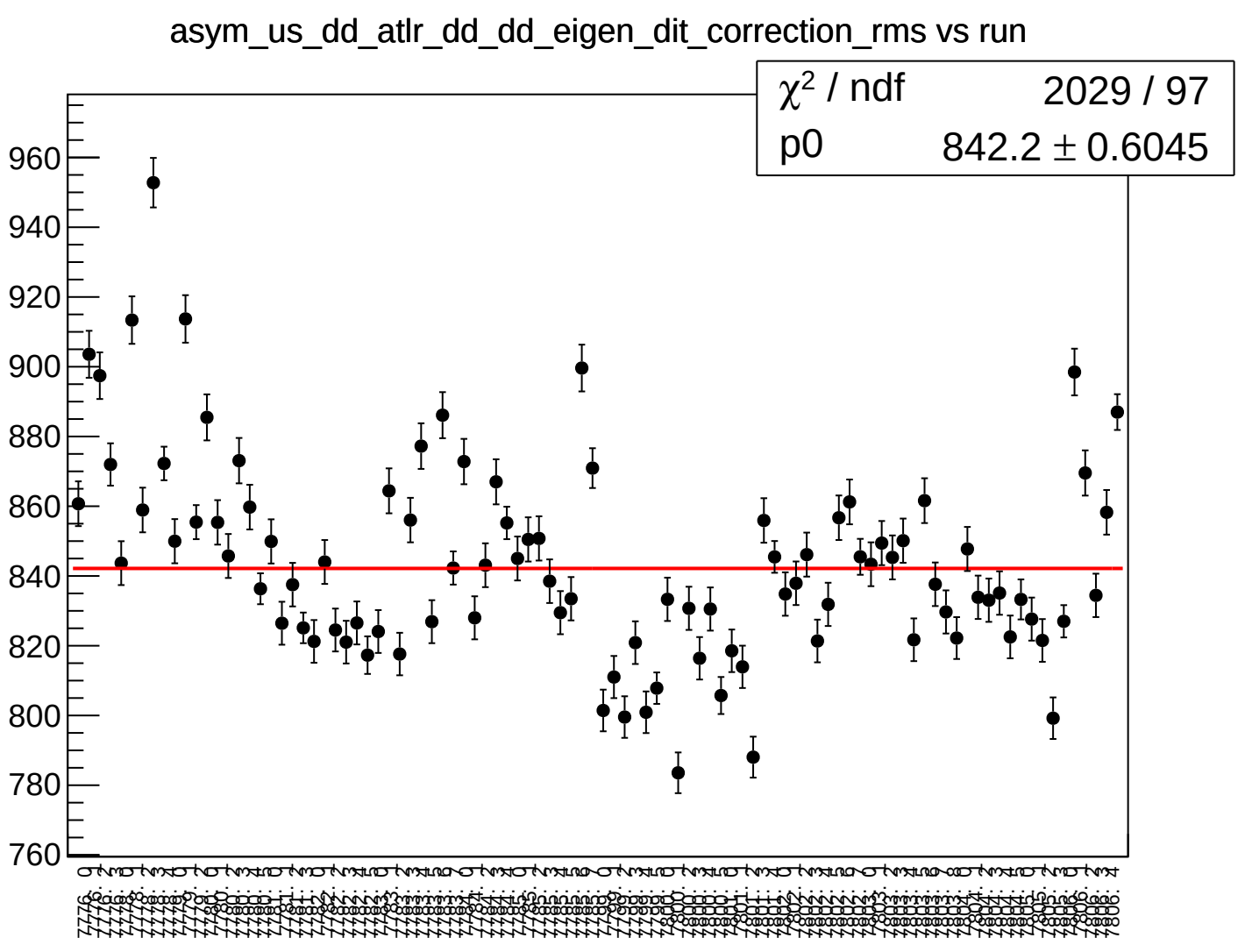

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 2029 / 97
p0 842.2 ± 0.6045
960
940
920
900
880
860
840
820
800
780
760

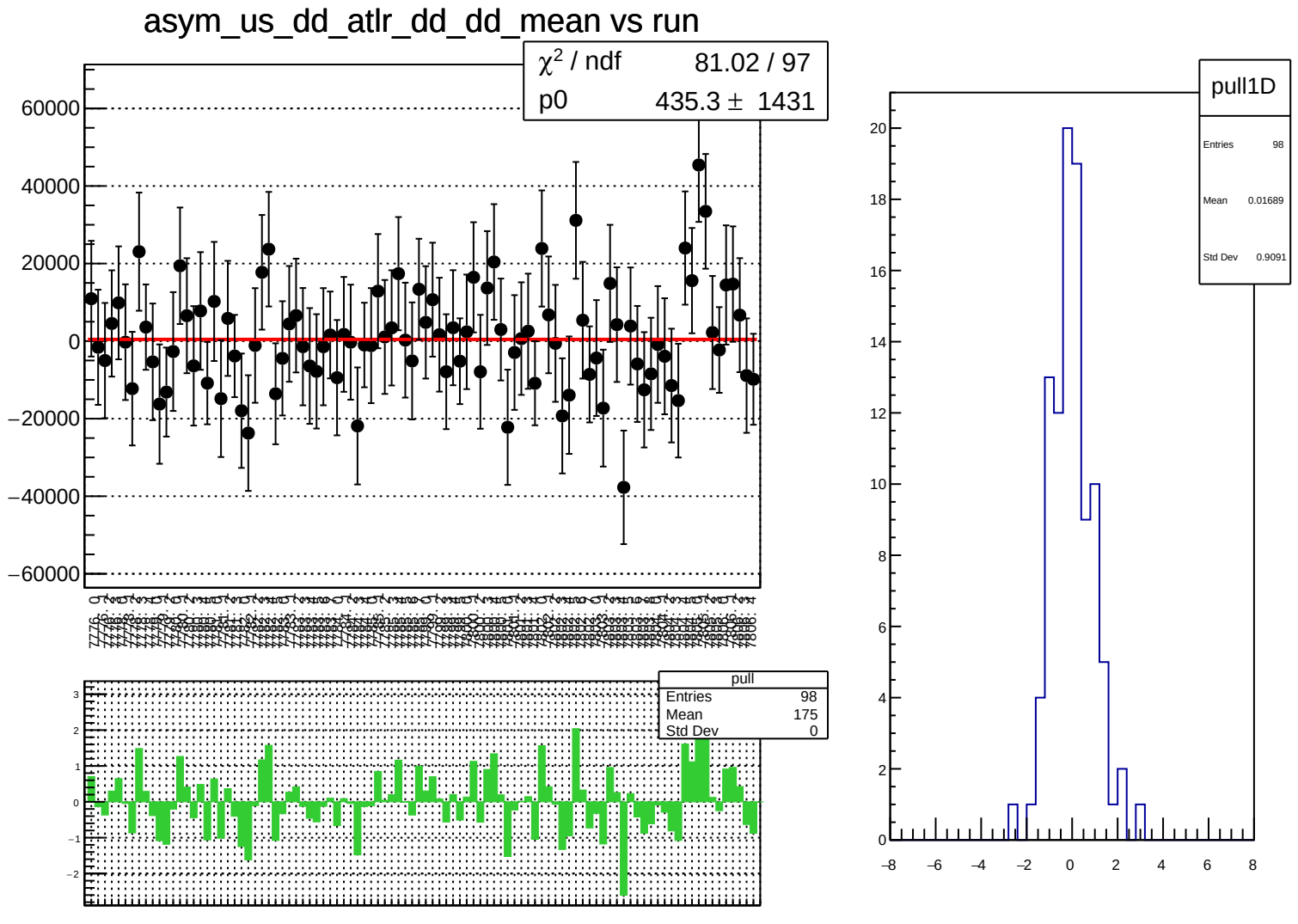

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.46 / 97
p0 972.1 ± 1147
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 204.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02595
Std Dev 0.9604
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

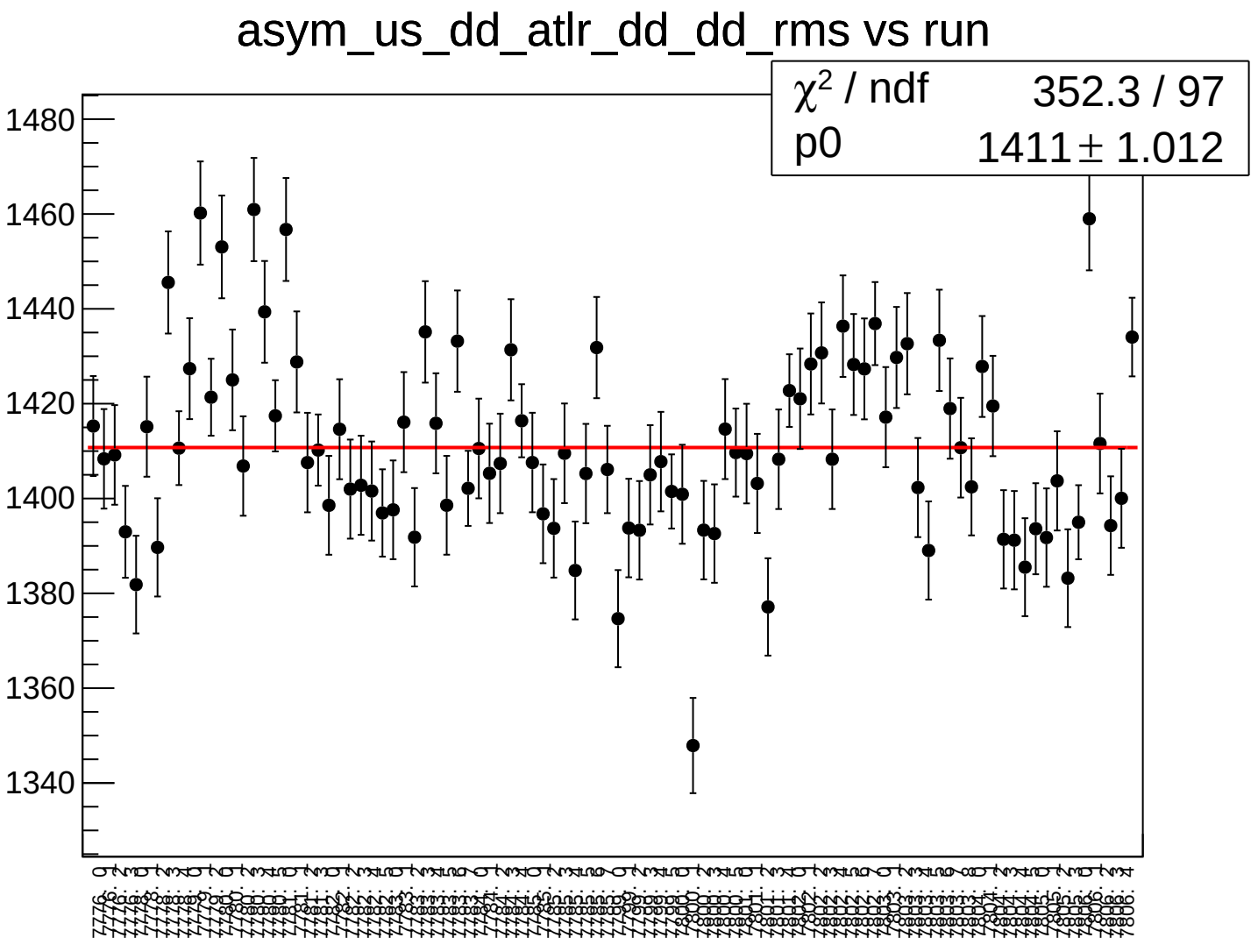

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 159.3 / 97
p0 1130 ± 0.8107
1200
1180
1160
1140
1120
1100

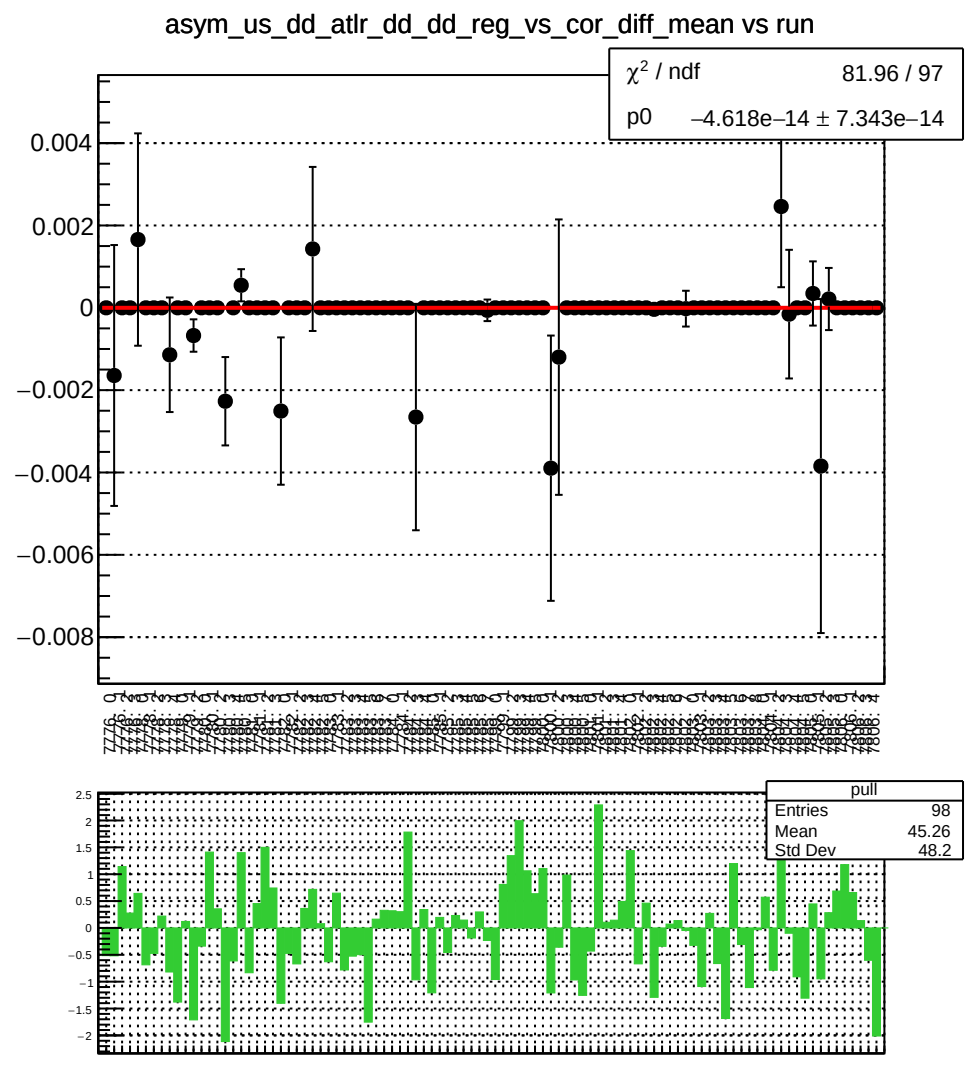

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.1 / 97
p0 590.5 ± 854.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 569.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

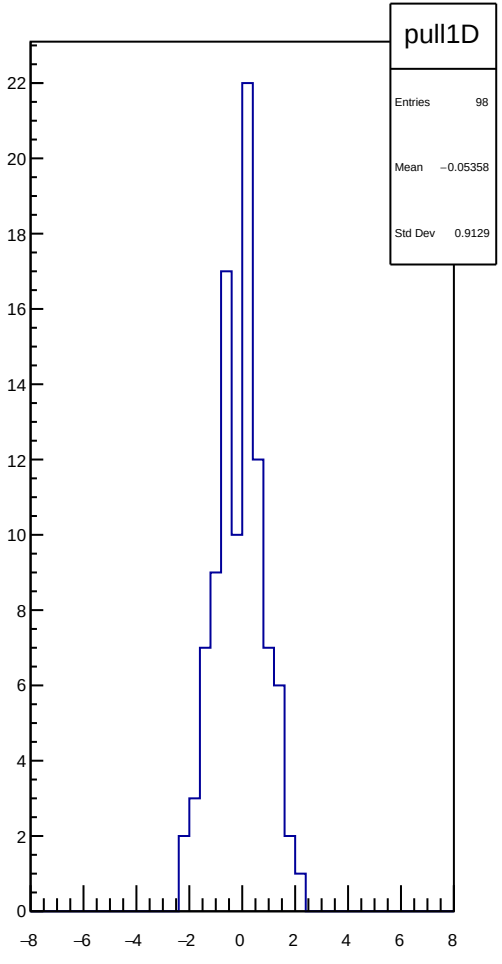

pull1D
Entries 98
Mean 0.003381
Std Dev 0.8457
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

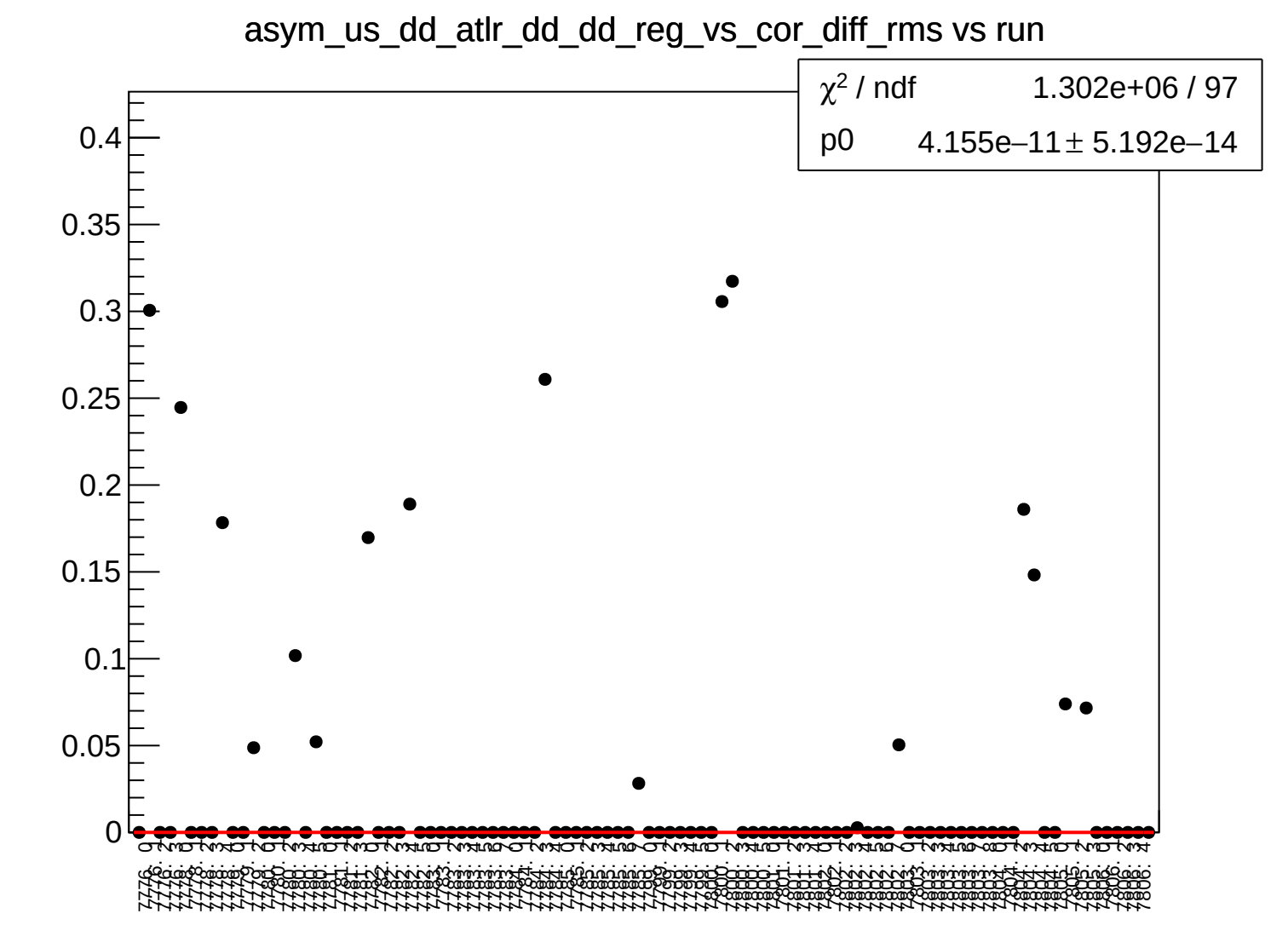

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2029 / 97
p0 842.2 ± 0.6045
960
940
920
900
880
860
840
820
800
780
760

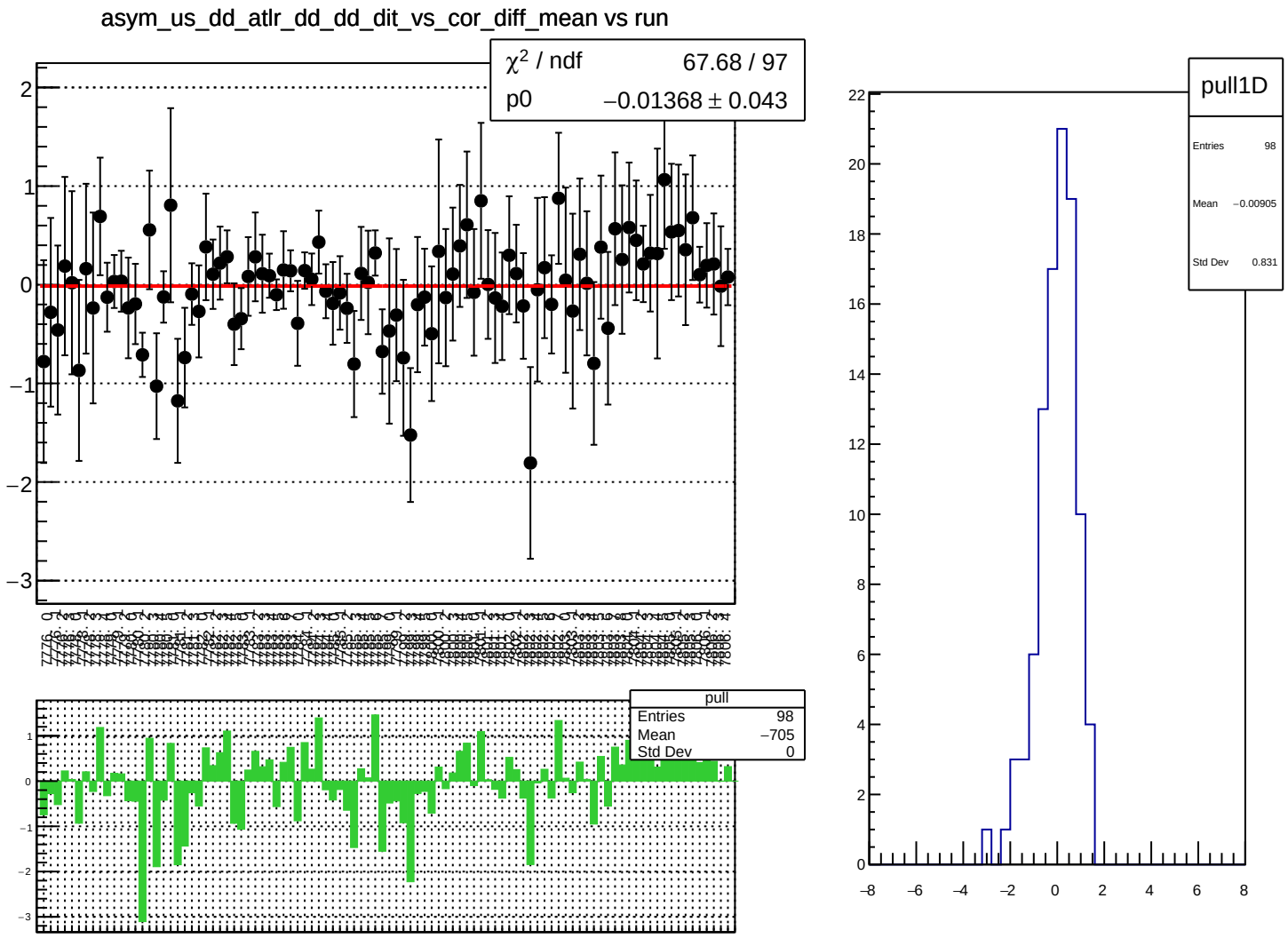

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 81.02 / 97
p0 435.3 ± 1431
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 175
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01689
Std Dev 0.9091
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

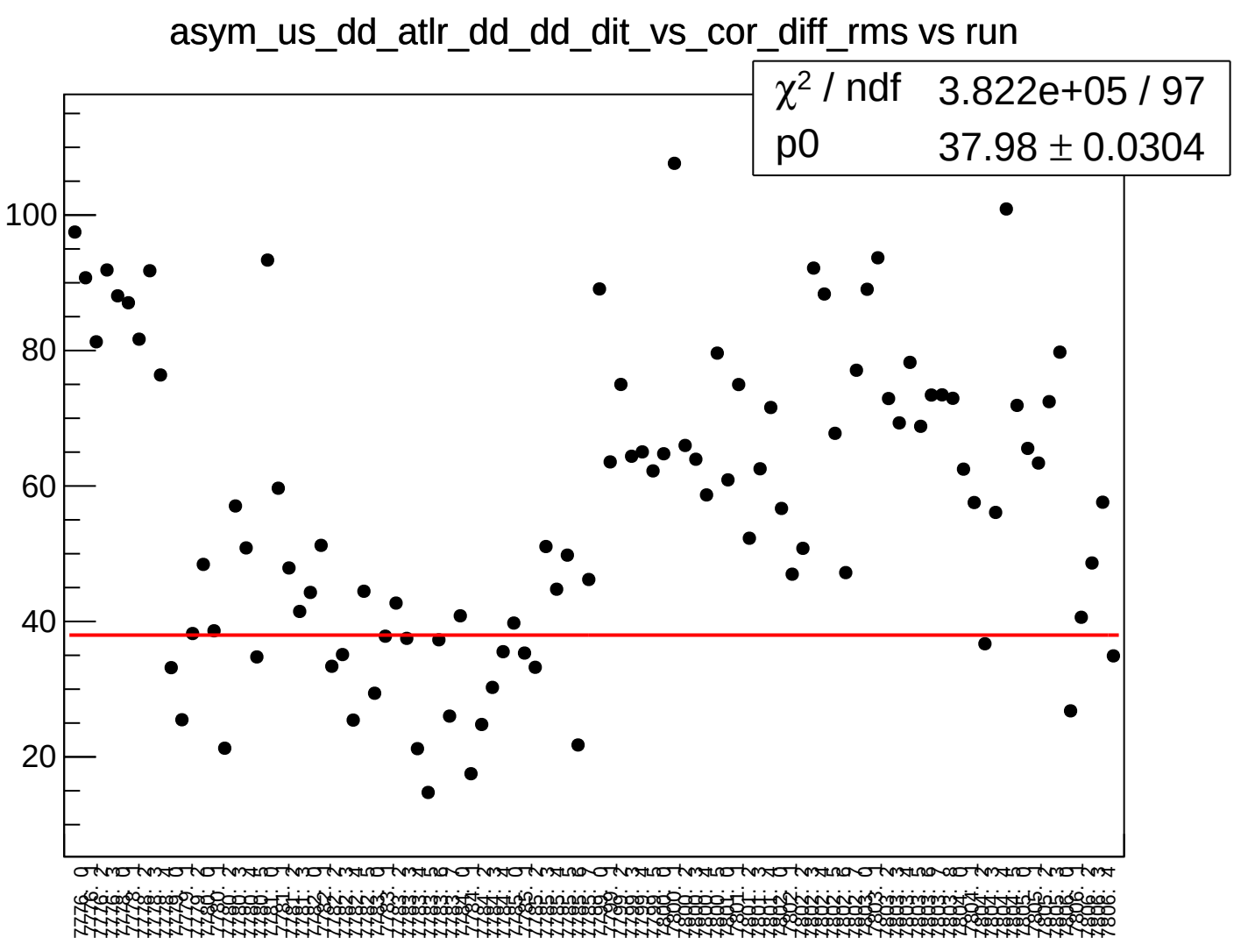

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 352.3 / 97
p0 1411 ± 1.012
1480
1460
1440
1420
1400
1380
1360
1340

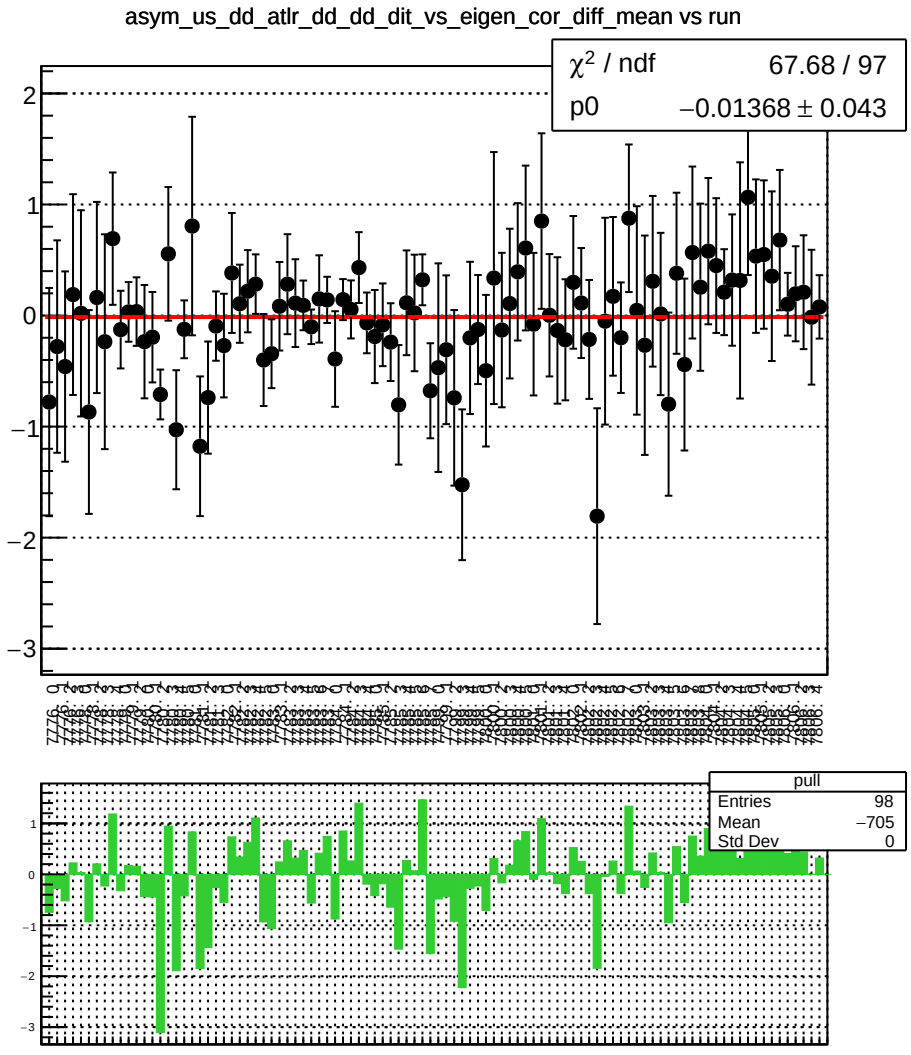

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.96 / 97
p0 −4.618e−14 ± 7.343e−14
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 98
Mean 45.26
Std Dev 48.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

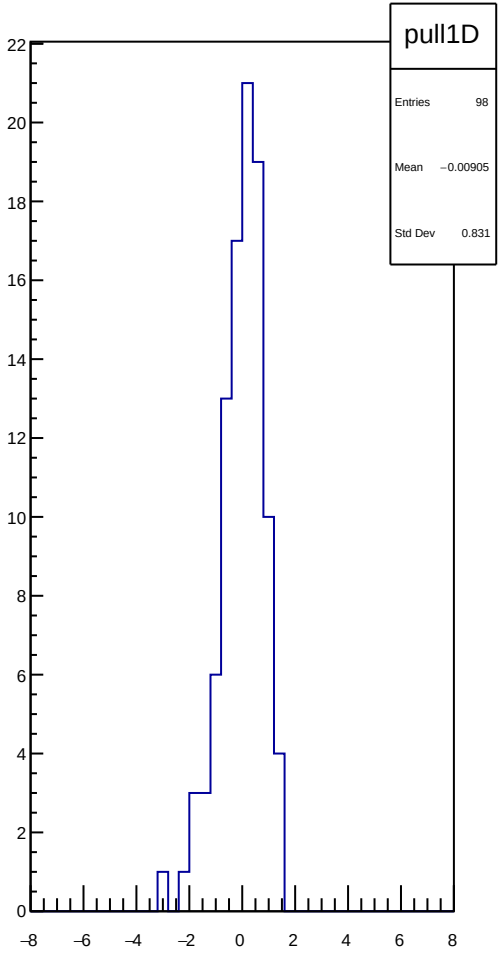

pull1D
Entries 98
Mean −0.05358
Std Dev 0.9129
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

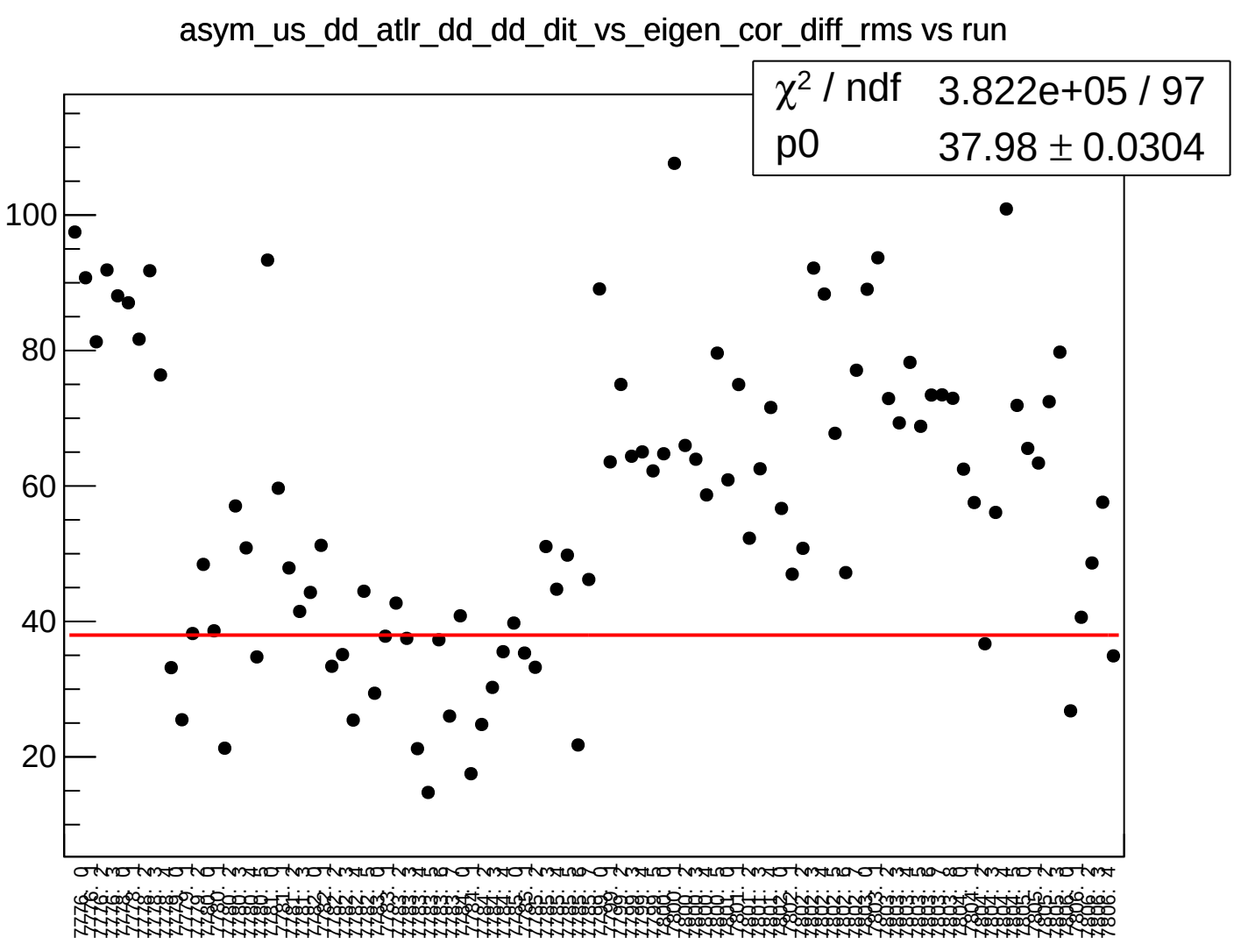

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.302e+06 / 97
p0 4.155e−11 ± 5.192e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

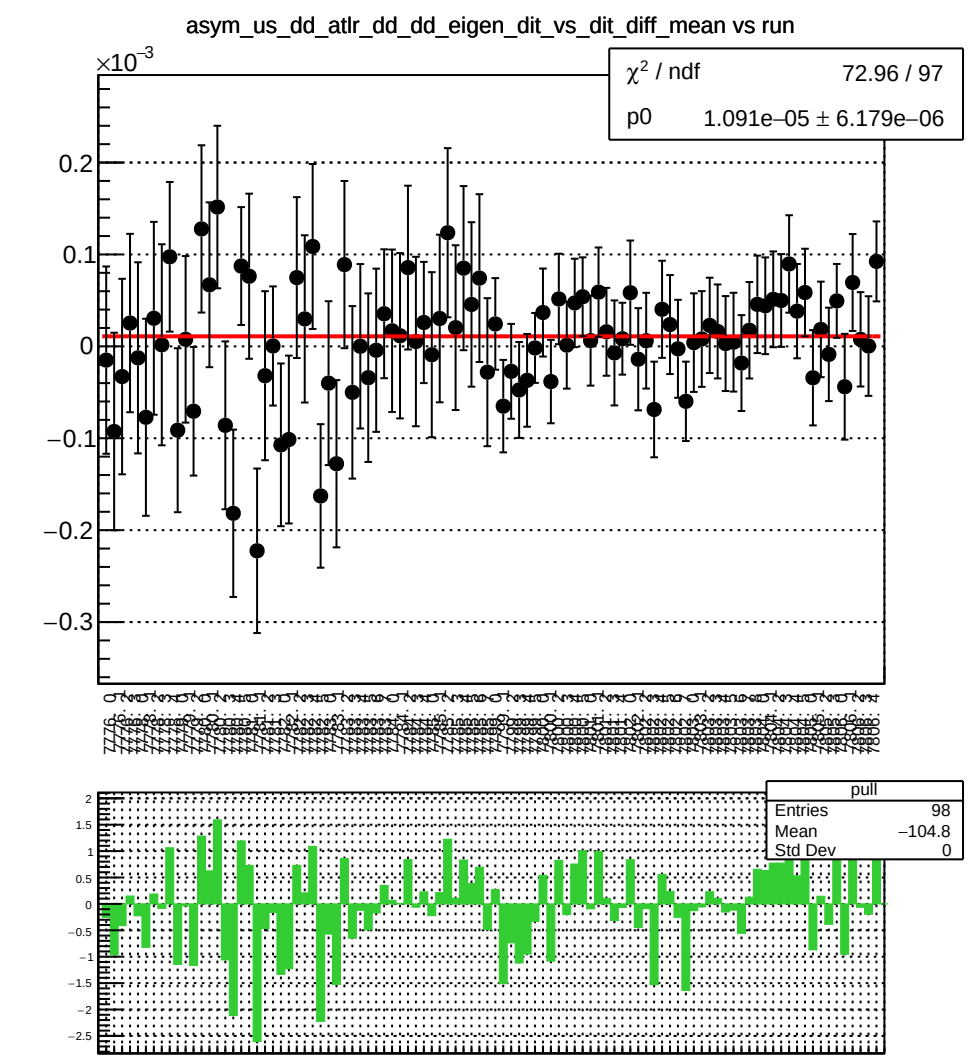

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.68 / 97
p0 −0.01368 ± 0.043
pull
Entries 98
Mean −705
Std Dev 0
pull1D
Entries 98
Mean −0.00905
Std Dev 0.831

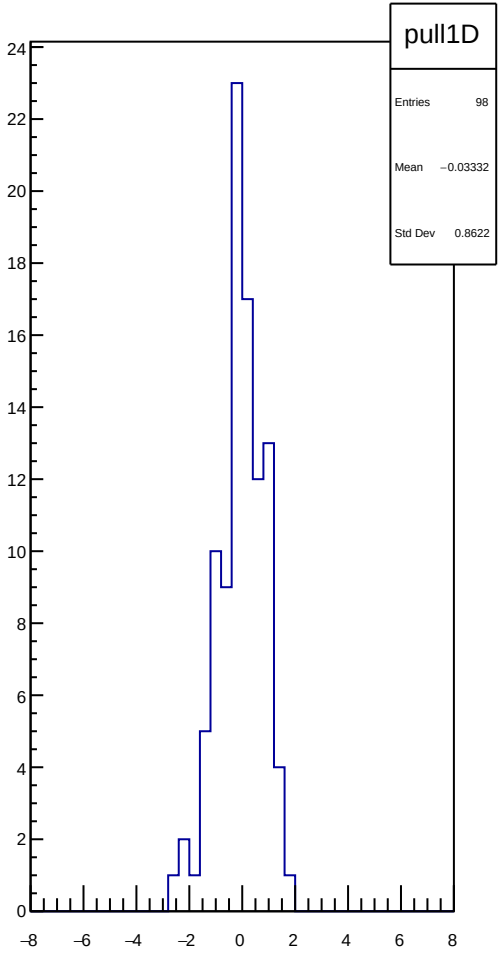

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.822e+05 / 97
p0 37.98 ± 0.0304
100
80
60
40
20

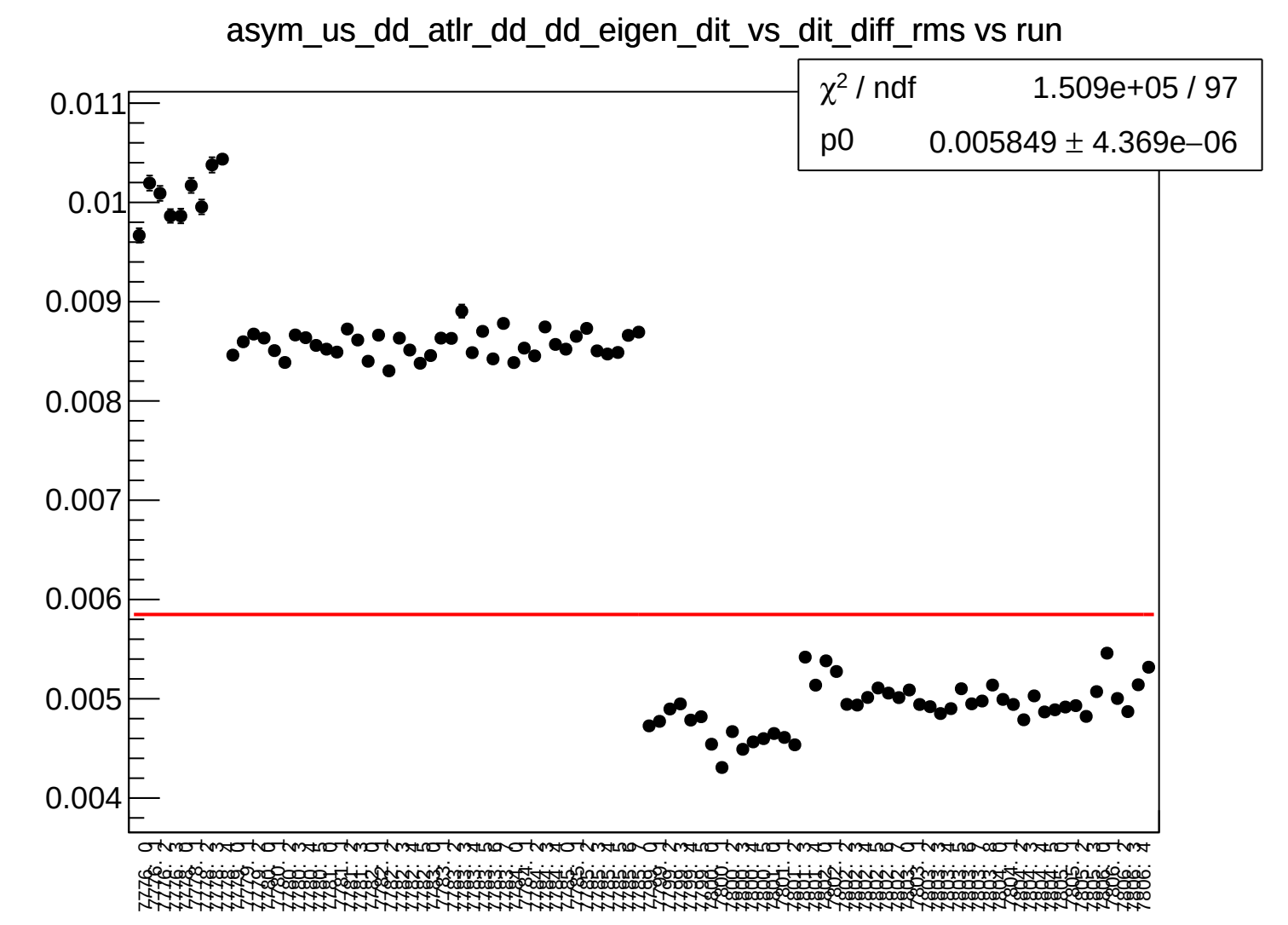

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.68 / 97
p0 −0.01368 ± 0.043
pull
Entries 98
Mean −705
Std Dev 0

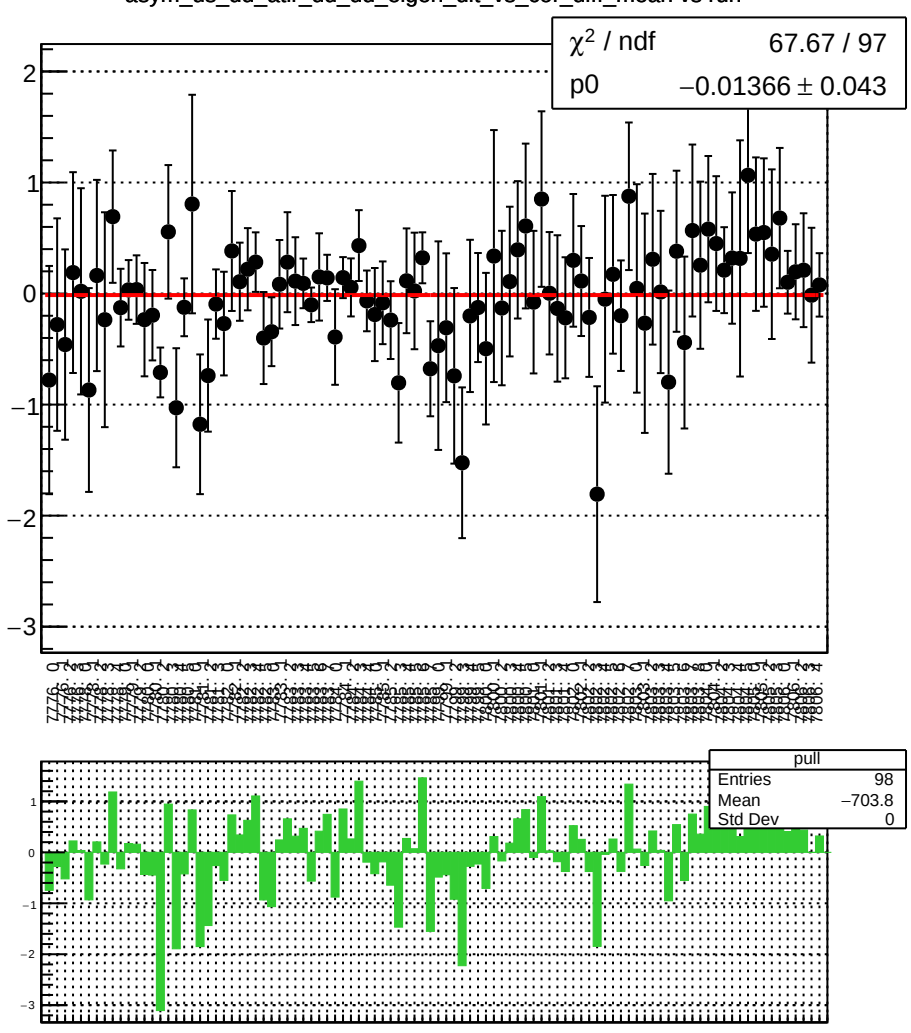

pull1D
Entries 98
Mean −0.00905
Std Dev 0.831

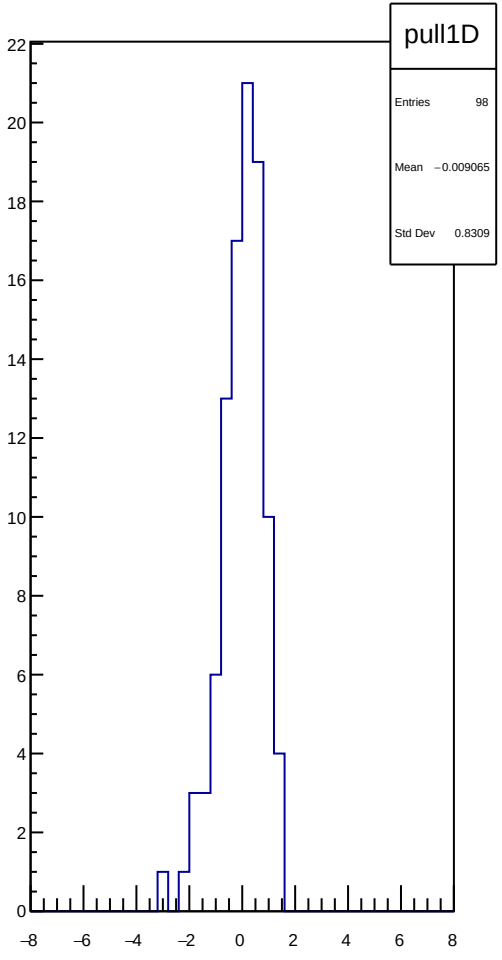

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.822e+05 / 97
p0 37.98 ± 0.0304
100
80
60
40
20

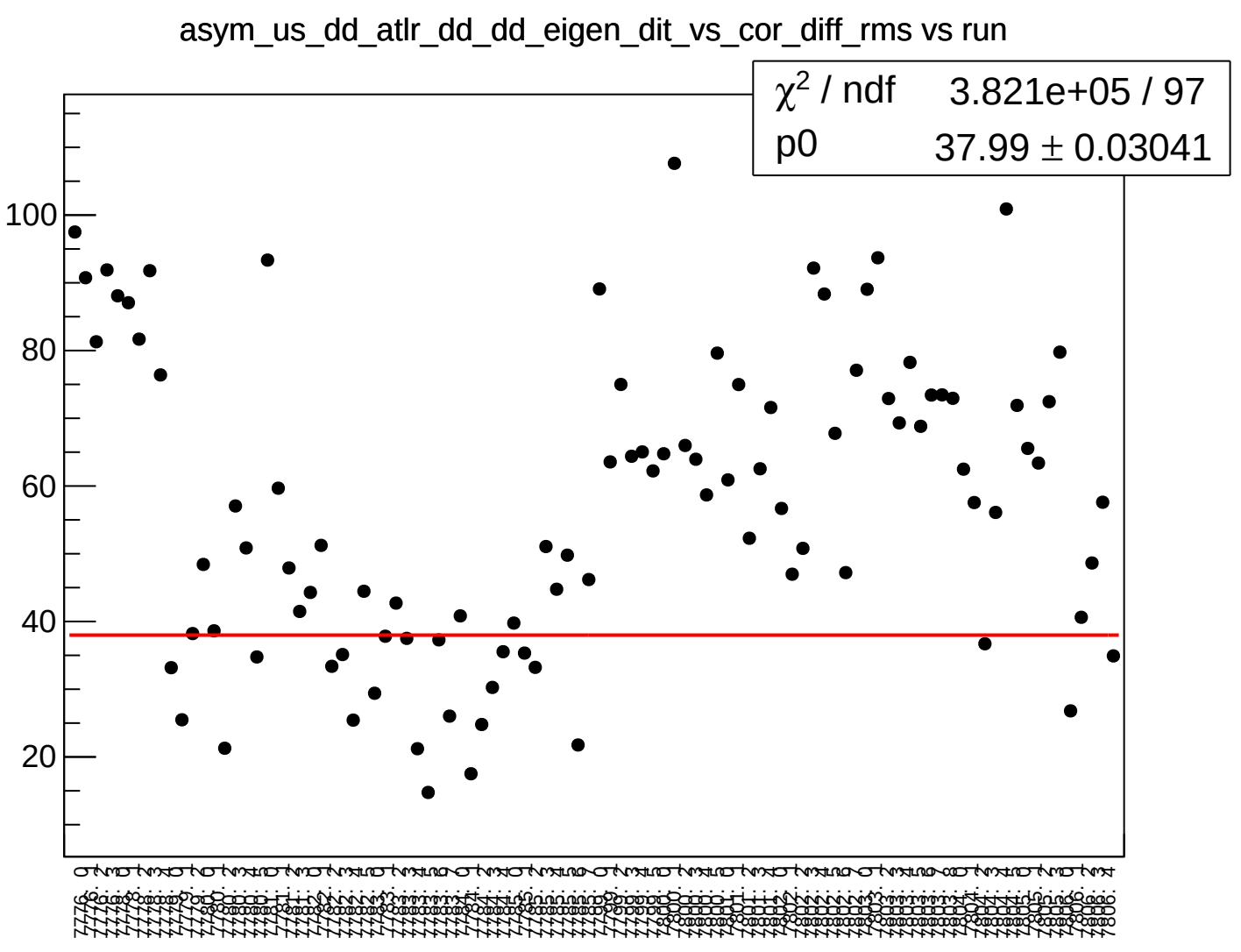

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.96 / 97
p0 1.091e−05 ± 6.179e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 98
Mean −104.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

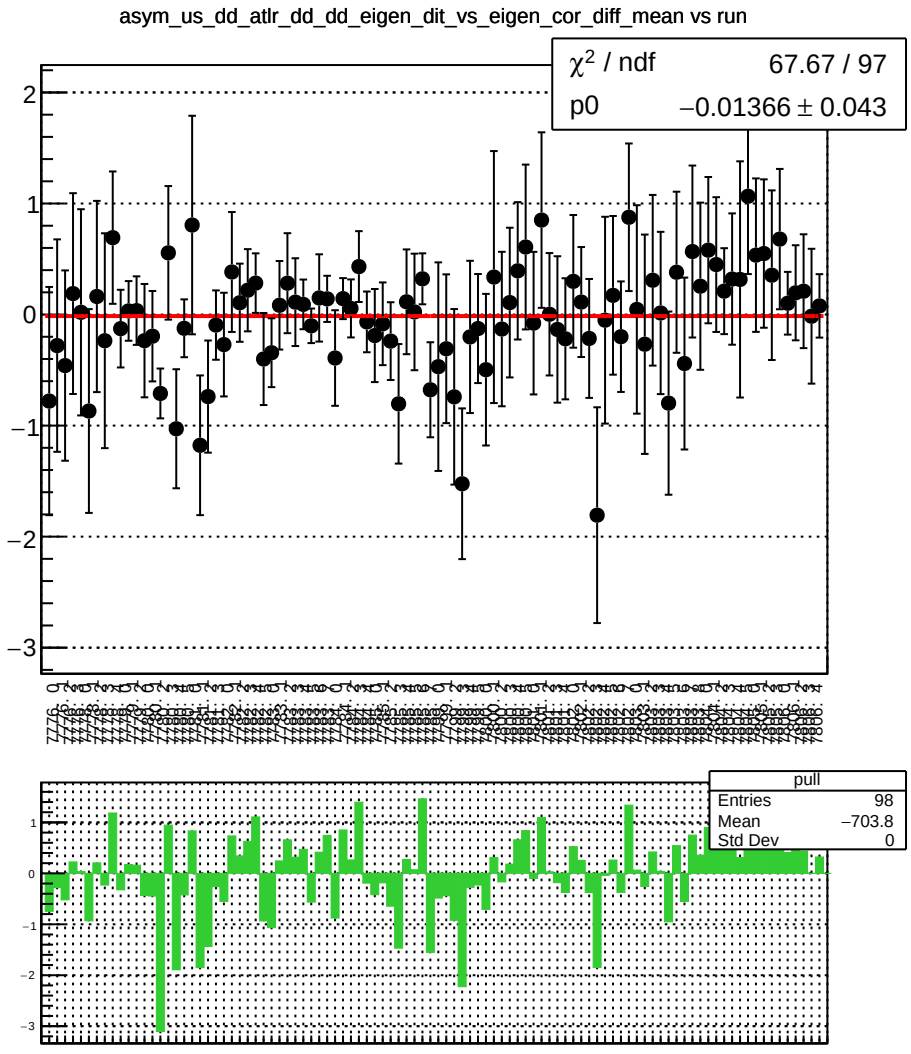

pull1D
Entries 98
Mean −0.03332
Std Dev 0.8622
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

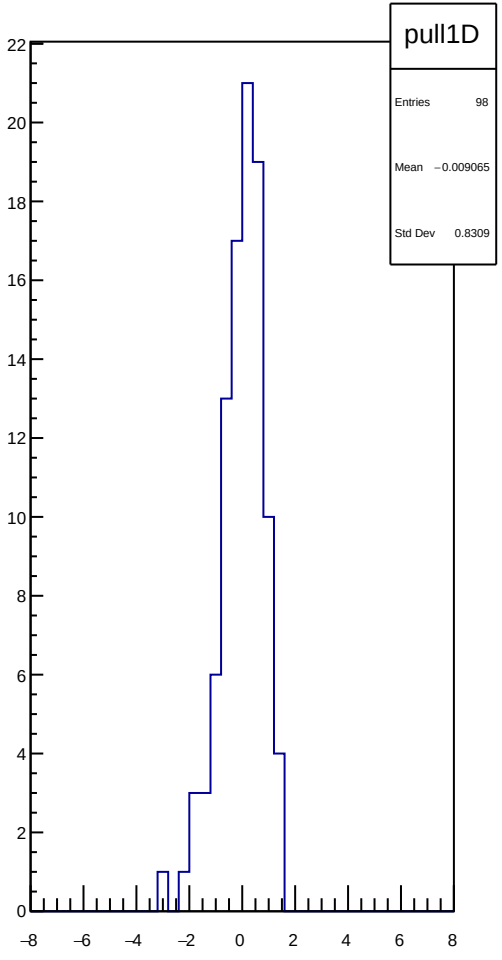

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.509e+05 / 97
p0 0.005849 ± 4.369e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

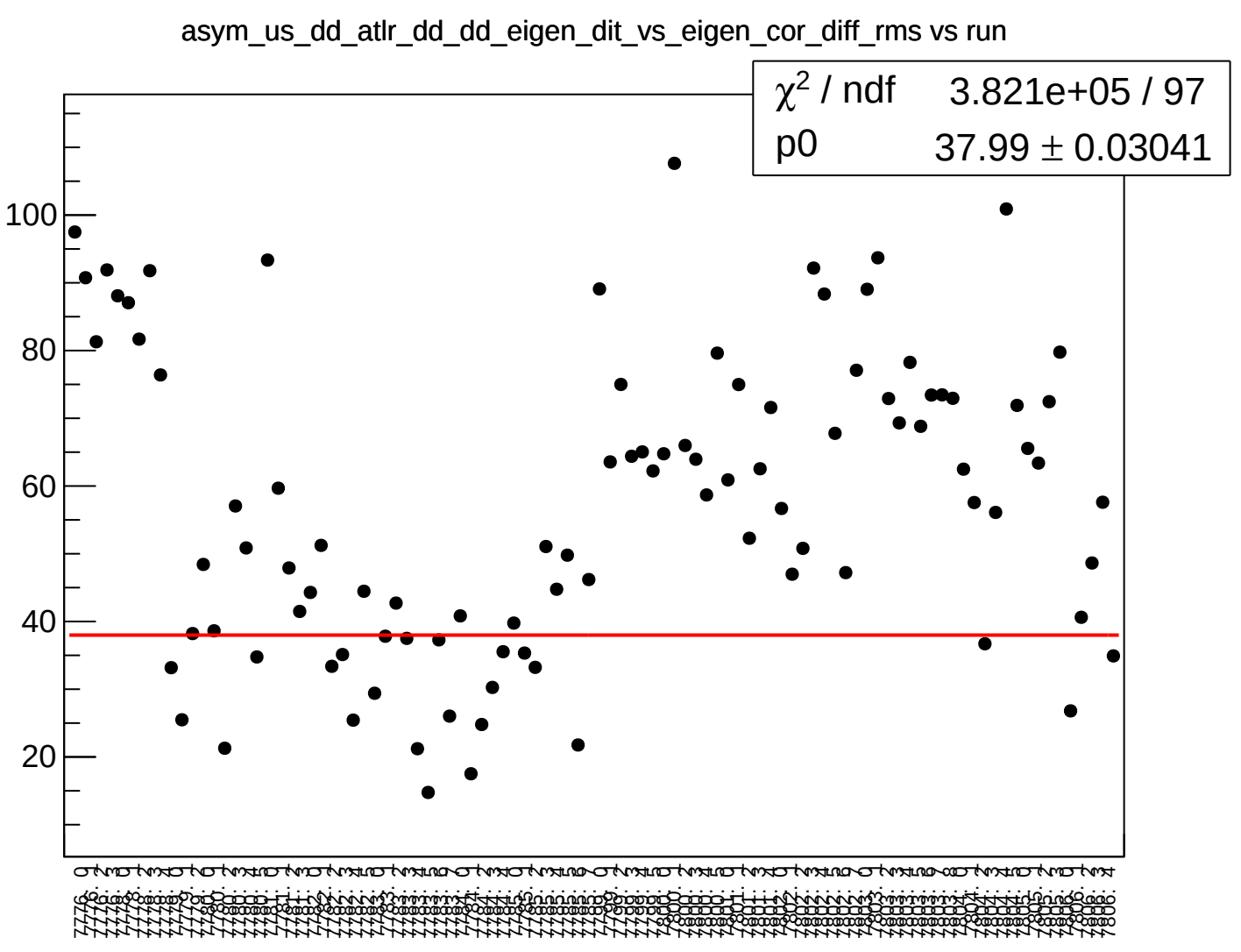

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.67 / 97
p0 −0.01366 ± 0.043
pull
Entries 98
Mean −703.8
Std Dev 0

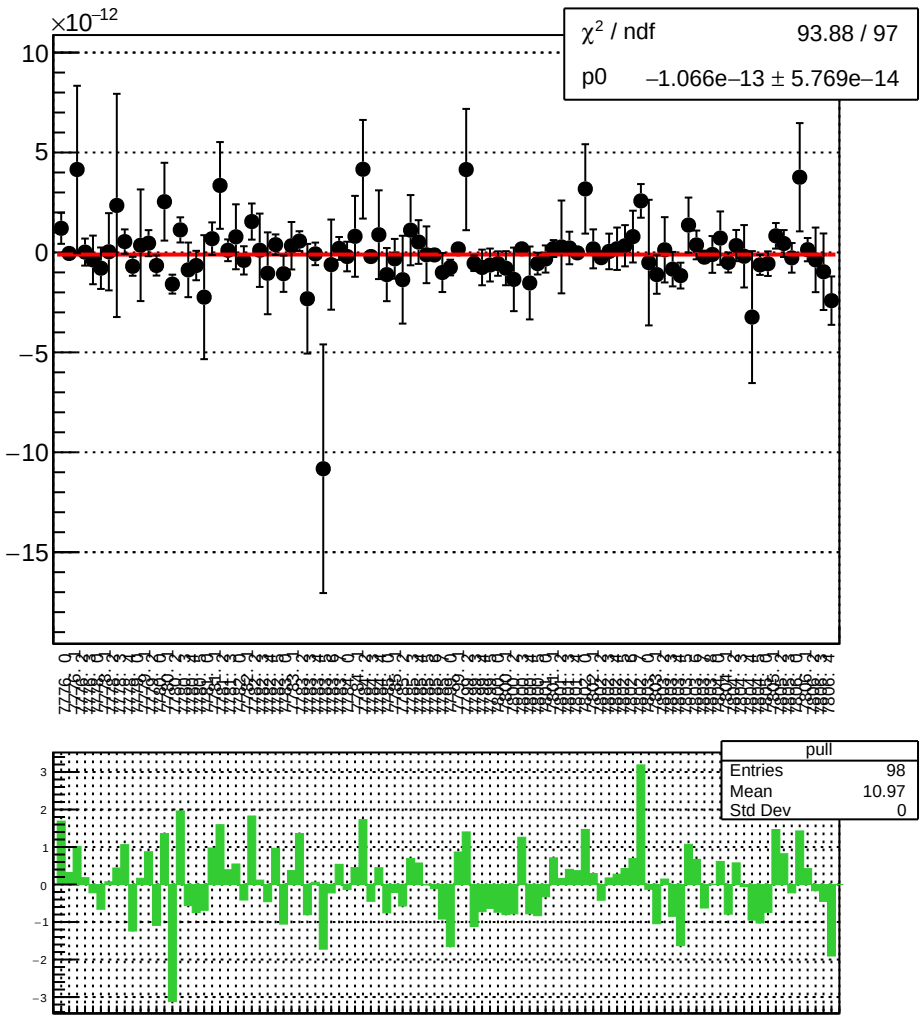

pull1D
Entries 98
Mean −0.009065
Std Dev 0.8309

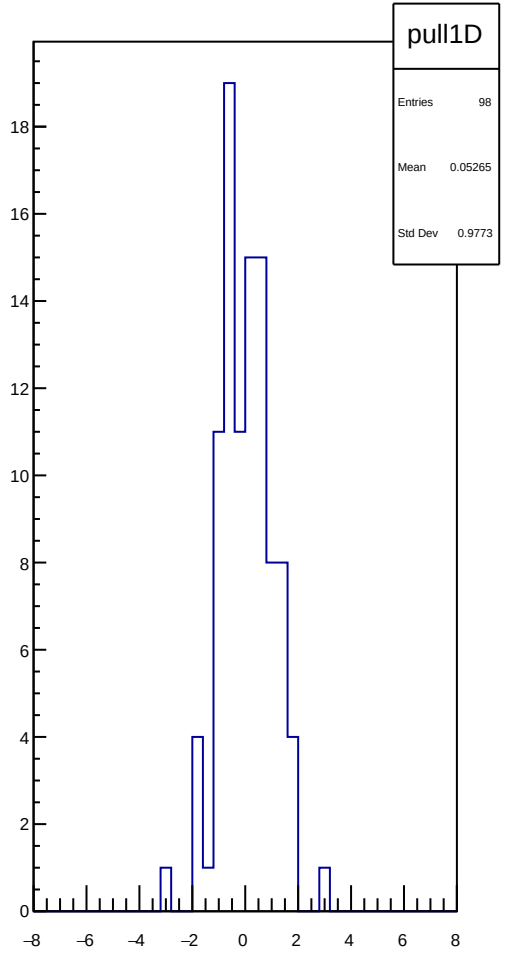

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.821e+05 / 97
p0 37.99 ± 0.03041
100
80
60
40
20

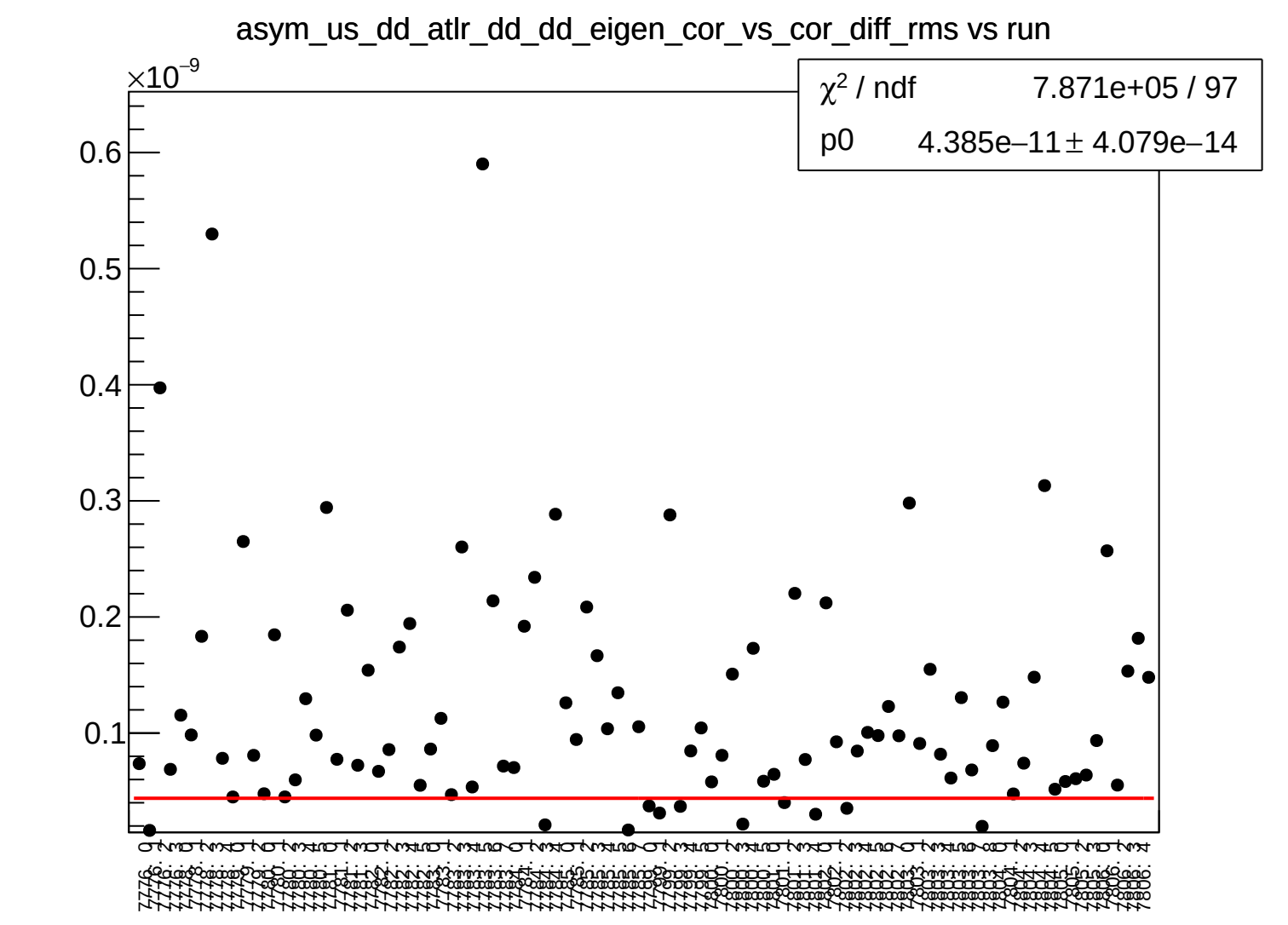

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.67 / 97
p0 −0.01366 ± 0.043
pull
Entries 98
Mean −703.8
Std Dev 0

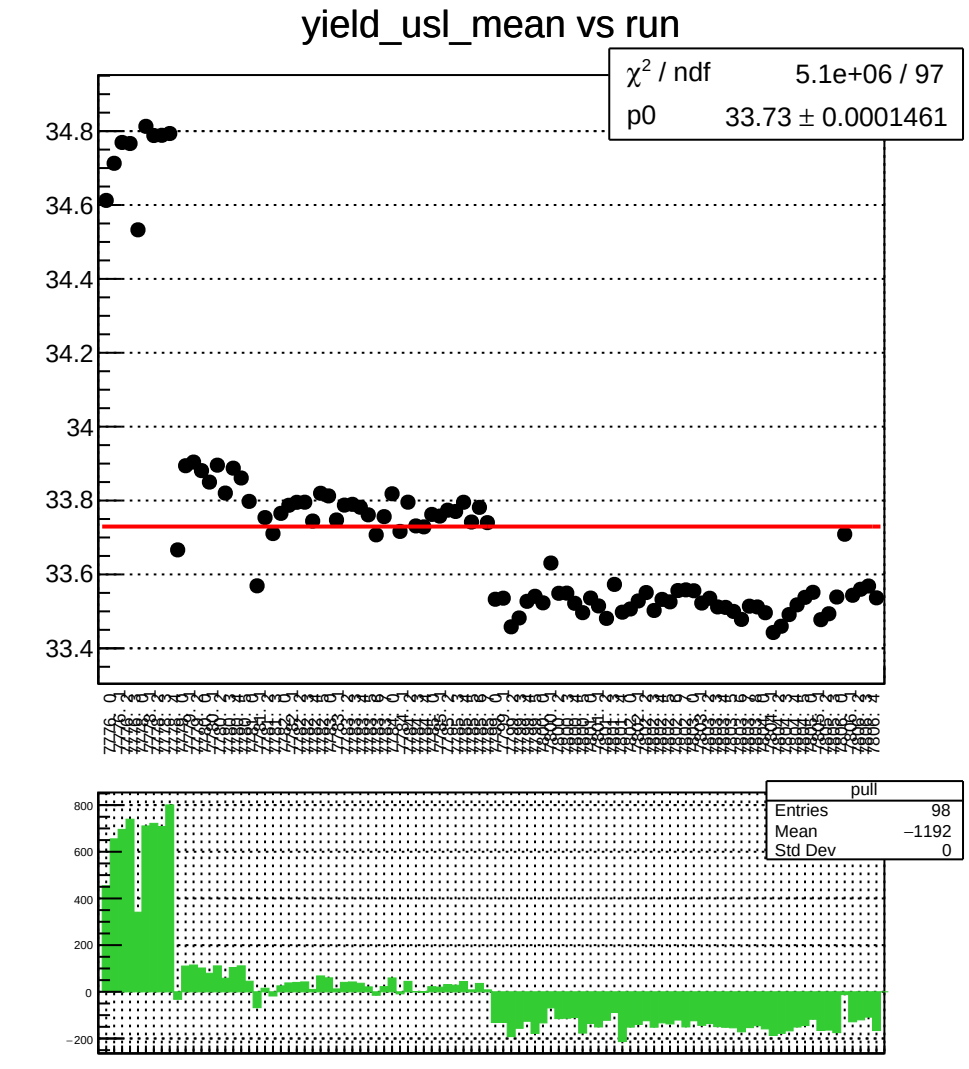

pull1D
Entries 98
Mean −0.009065
Std Dev 0.8309

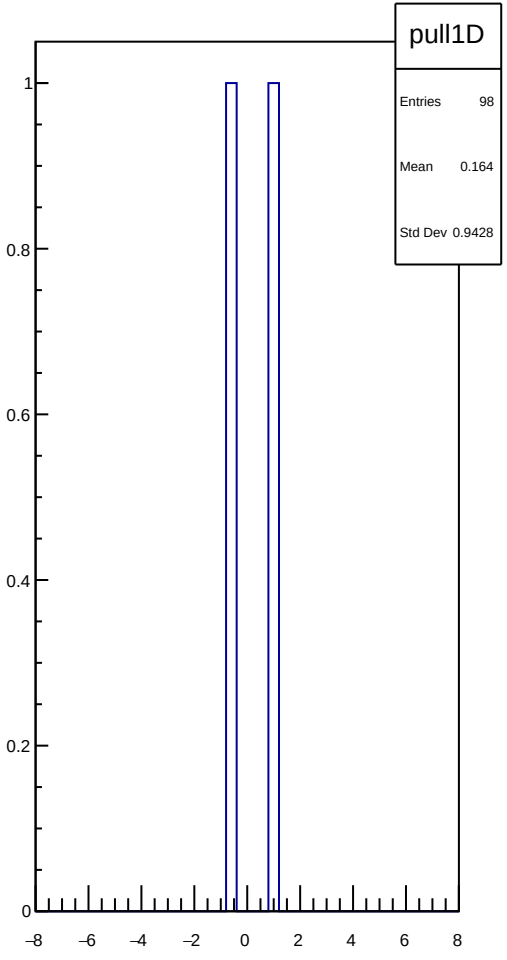

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.821e+05 / 97
p0 37.99 ± 0.03041
100
80
60
40
20

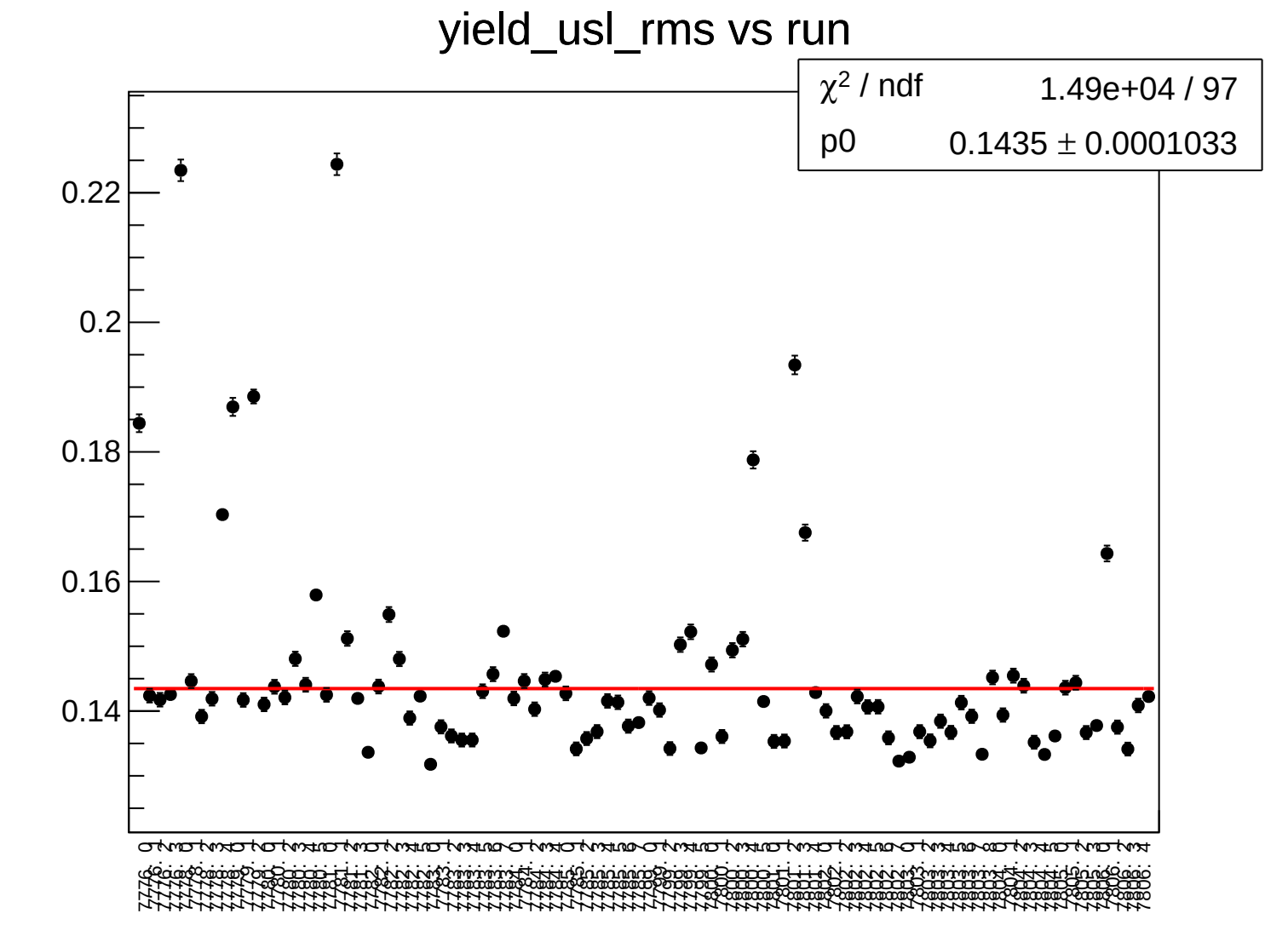

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 93.88 / 97
p0 −1.066e−13 ± 5.769e−14
pull
Entries 98
Mean 10.97
Std Dev 0

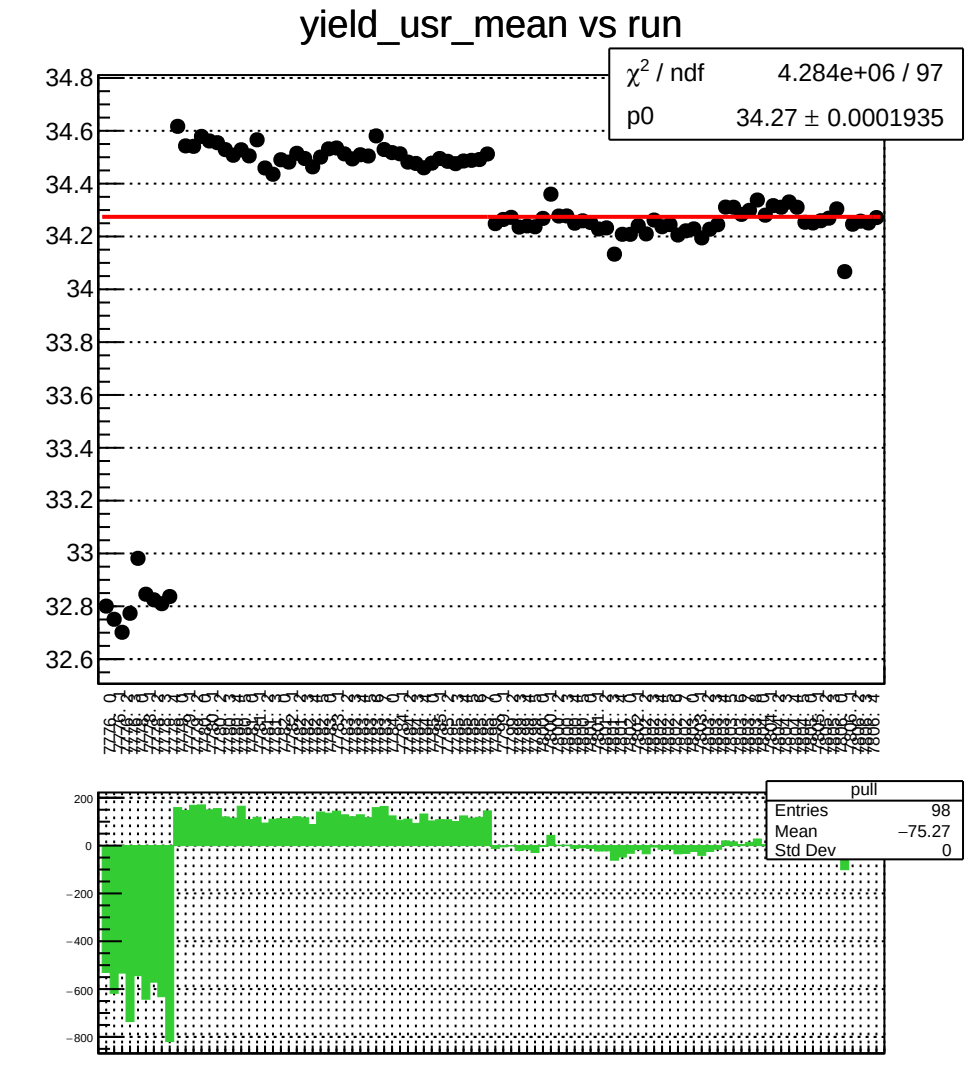

pull1D
Entries 98
Mean 0.05265
Std Dev 0.9773

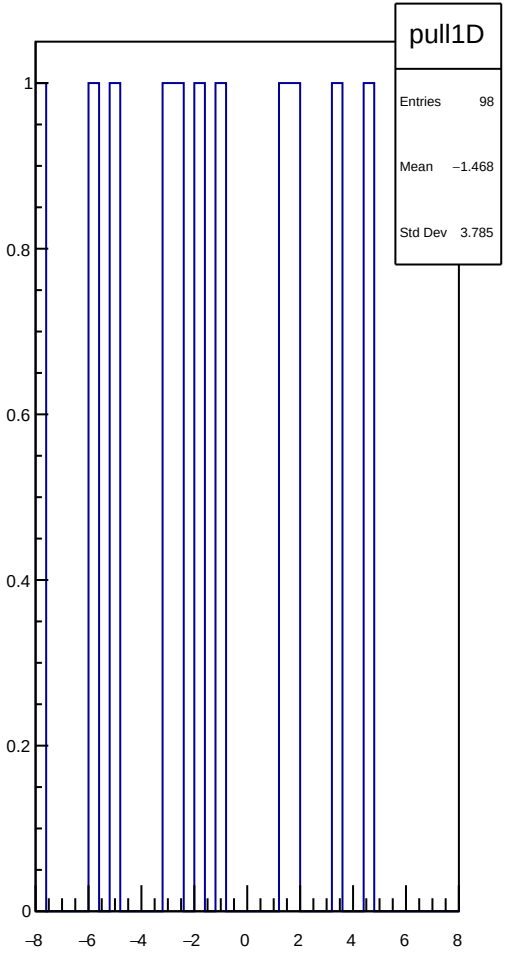

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.871e+05 / 97
p0 4.385e−11 ± 4.079e−14
0.6
0.5
0.4
0.3
0.2
0.1

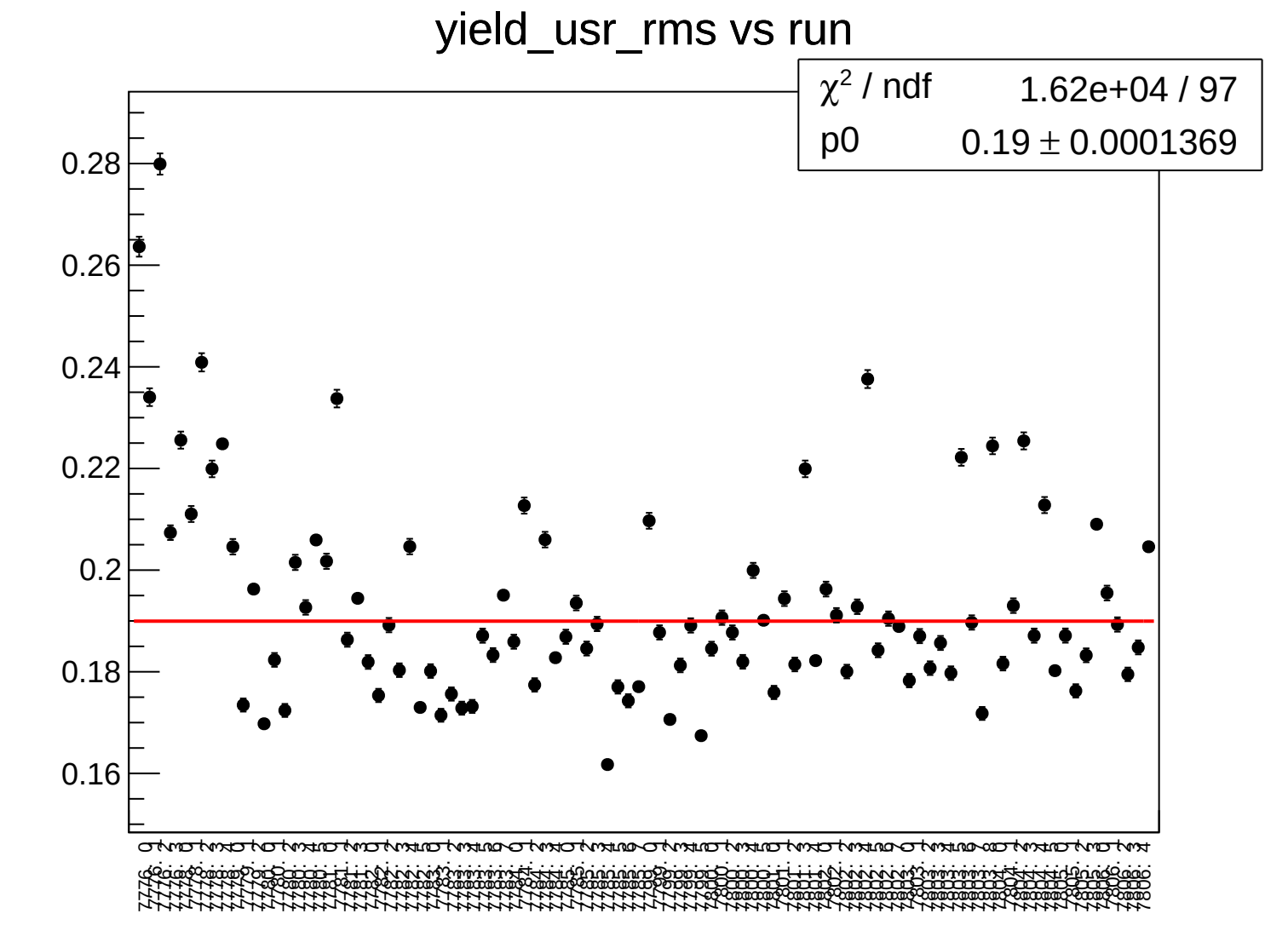

yield_usl_mean vs run
χ² / ndf 5.1e+06 / 97
p0 33.73 ± 0.0001461
34.8
34.6
34.4
34.2
34
33.8
33.6
33.4
pull
Entries 98
Mean −1192
Std Dev 0
800
600
400
200
0
−200

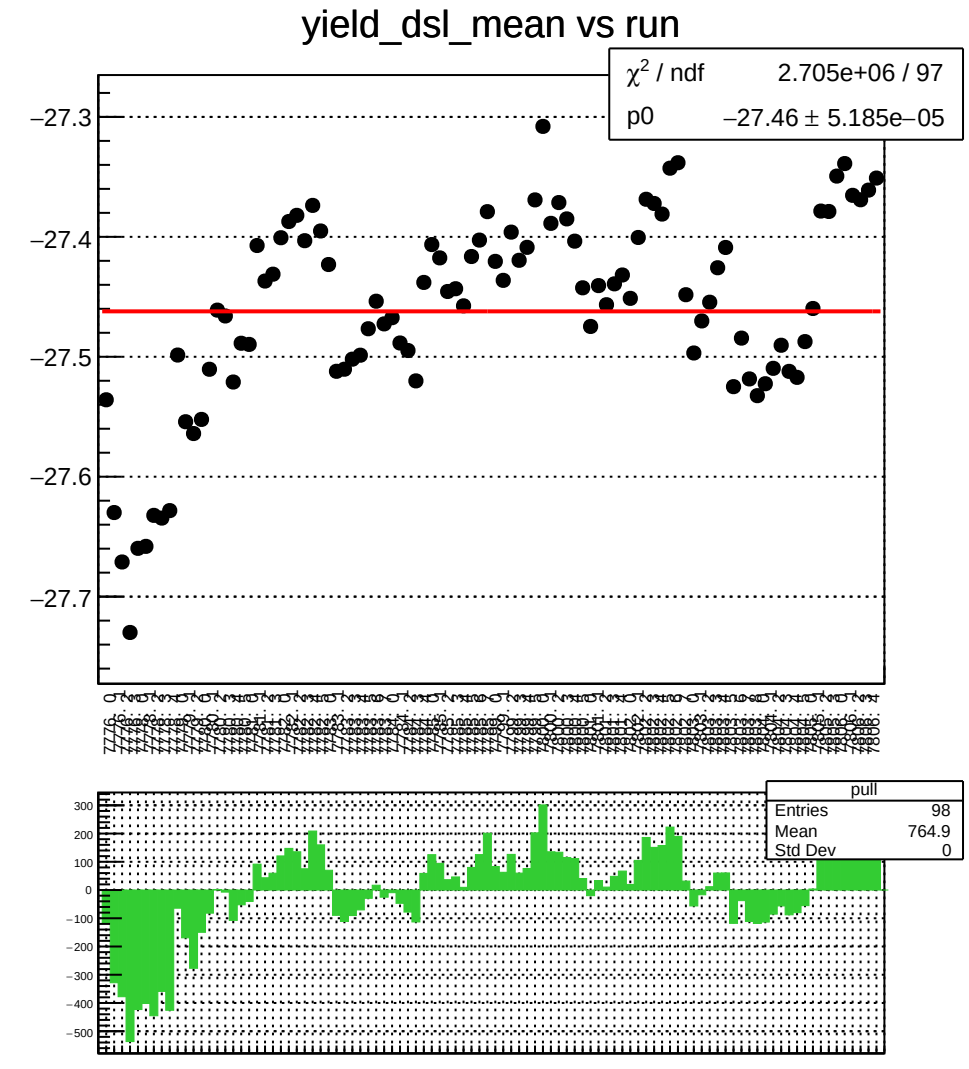

pull1D
Entries 98
Mean 0.164
Std Dev 0.9428
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

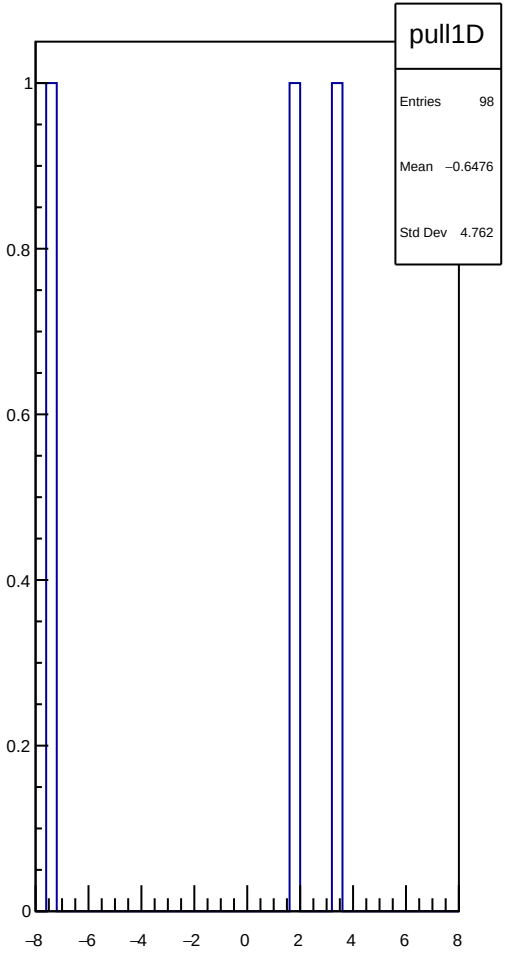

yield_usl_rms vs run
χ² / ndf 1.49e+04 / 97
p0 0.1435 ± 0.0001033
0.22
0.2
0.18
0.16
0.14

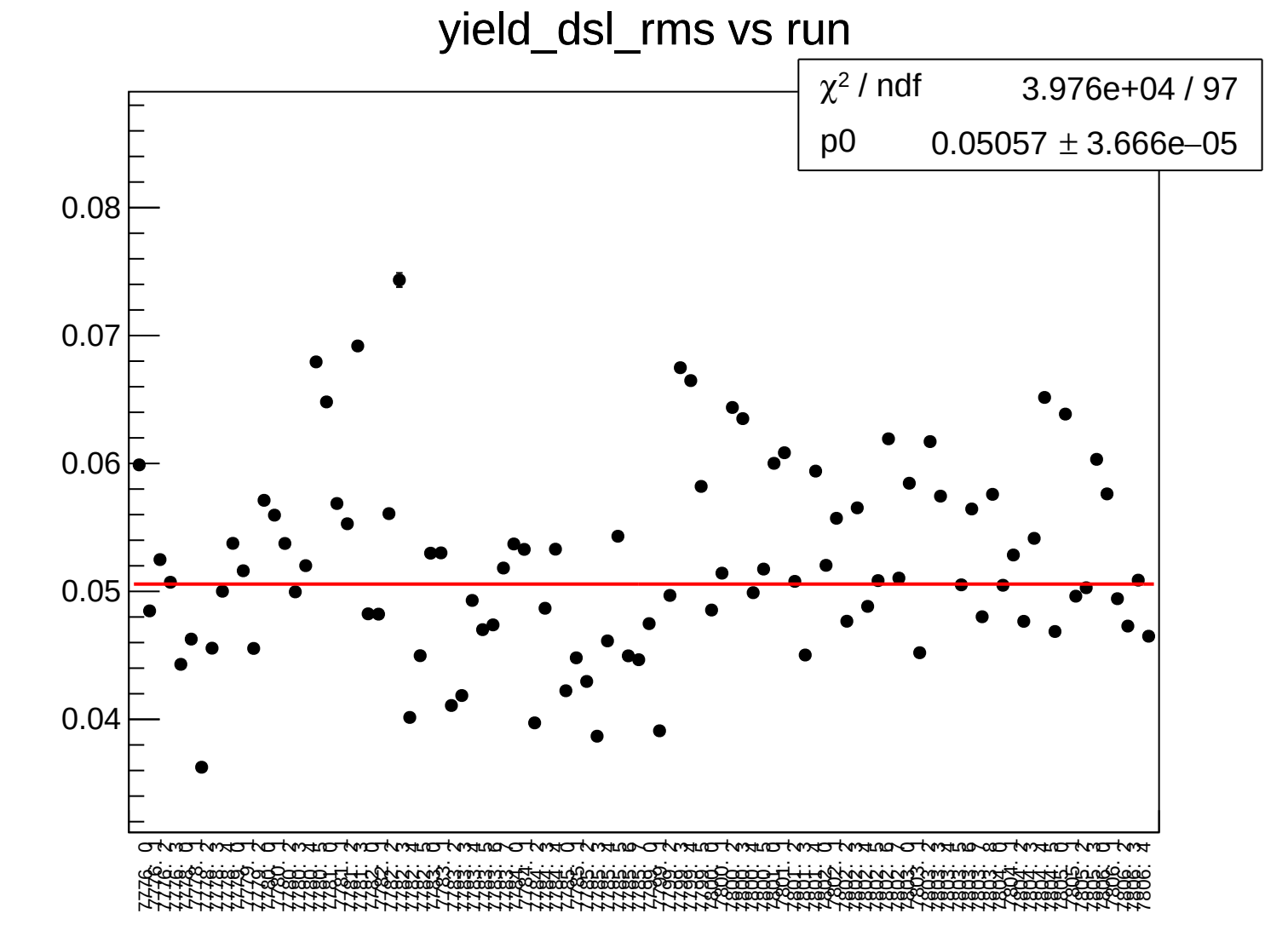

yield_usr_mean vs run
χ² / ndf 4.284e+06 / 97
p0 34.27 ± 0.0001935
34.8
34.6
34.4
34.2
34
33.8
33.6
33.4
33.2
33
32.8
32.6
pull
Entries 98
Mean −75.27
Std Dev 0
200
0
−200
−400
−600
−800

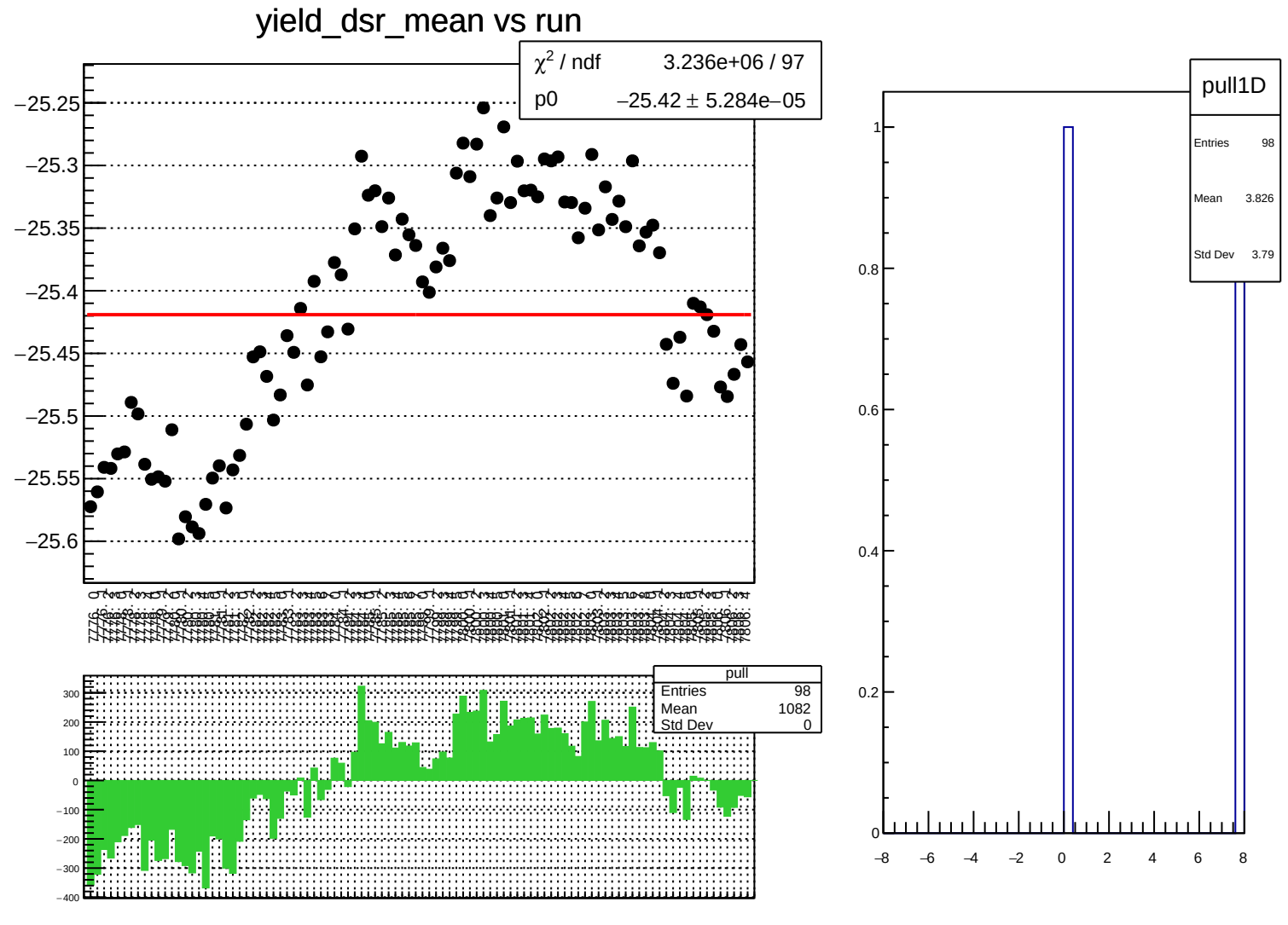

pull1D
Entries 98
Mean −1.468
Std Dev 3.785
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

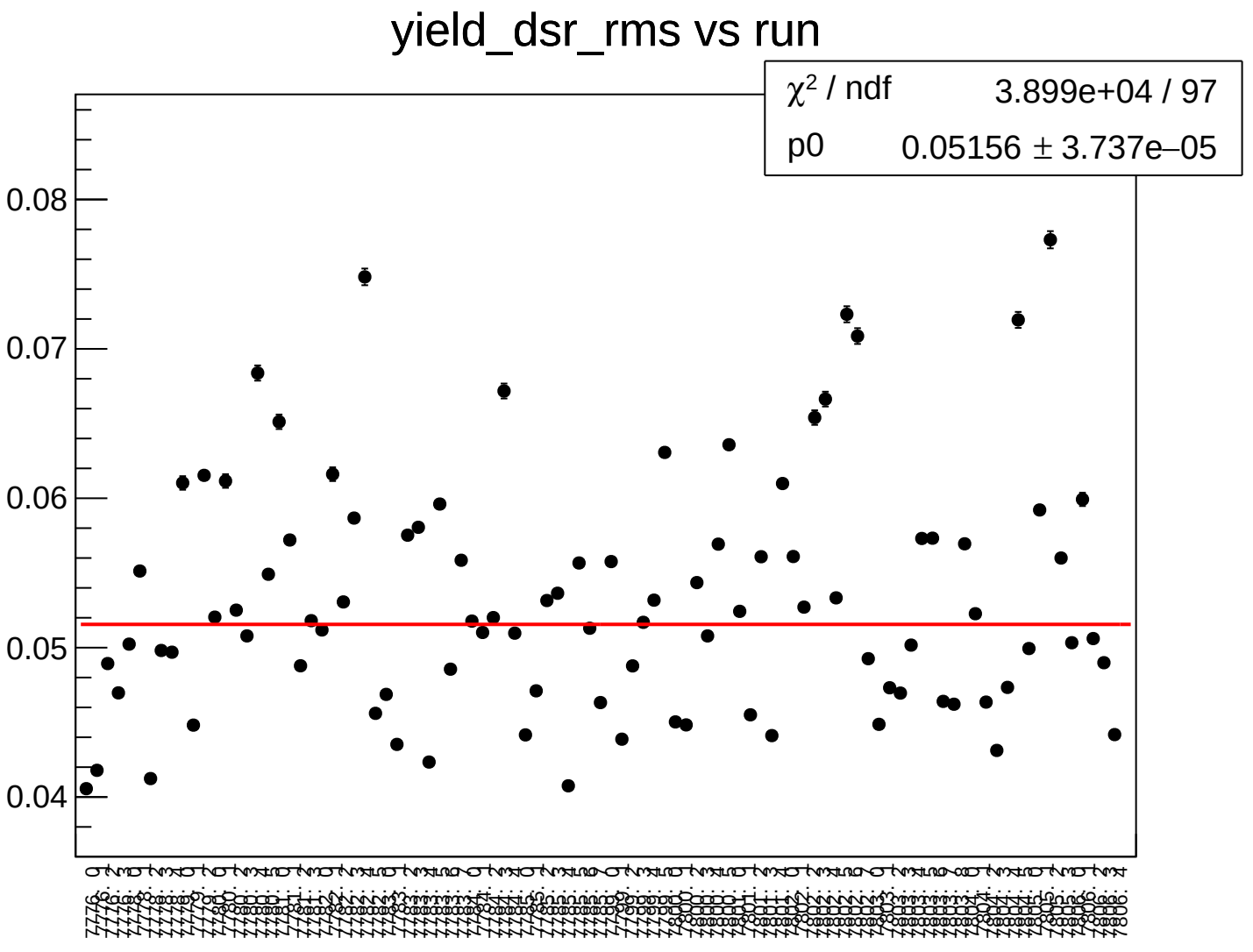

yield_usr_rms vs run
χ^2 / ndf 1.62e+04 / 97
p0 0.19 ± 0.0001369
0.28
0.26
0.24
0.22
0.2
0.18
0.16

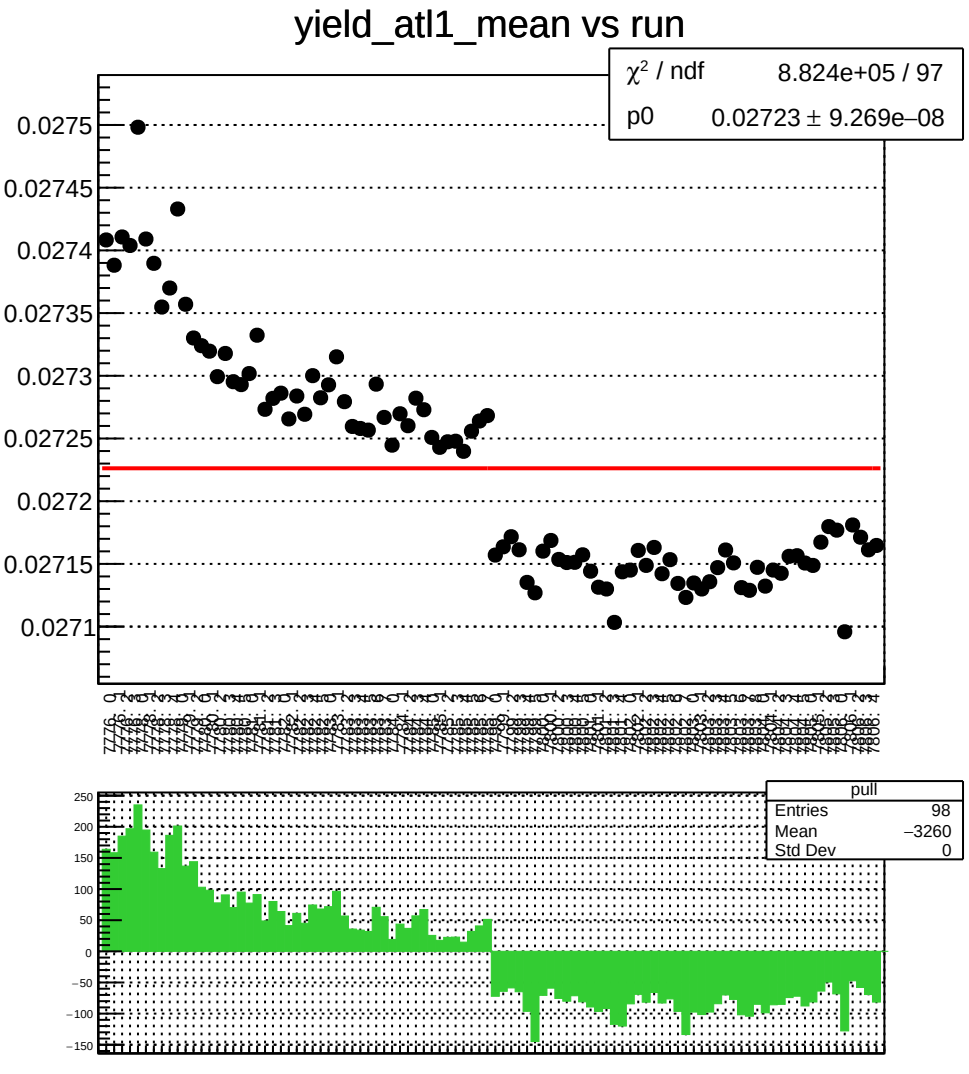

yield_dsl_mean vs run
χ² / ndf 2.705e+06 / 97
p0 −27.46 ± 5.185e−05
−27.3
−27.4
−27.5
−27.6
−27.7
pull
Entries 98
Mean 764.9
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

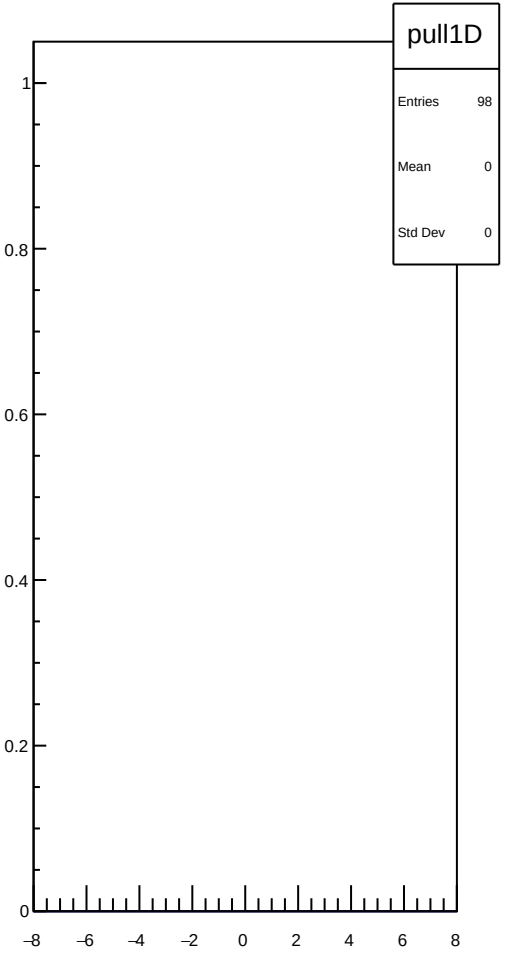

pull1D
Entries 98
Mean −0.6476
Std Dev 4.762
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

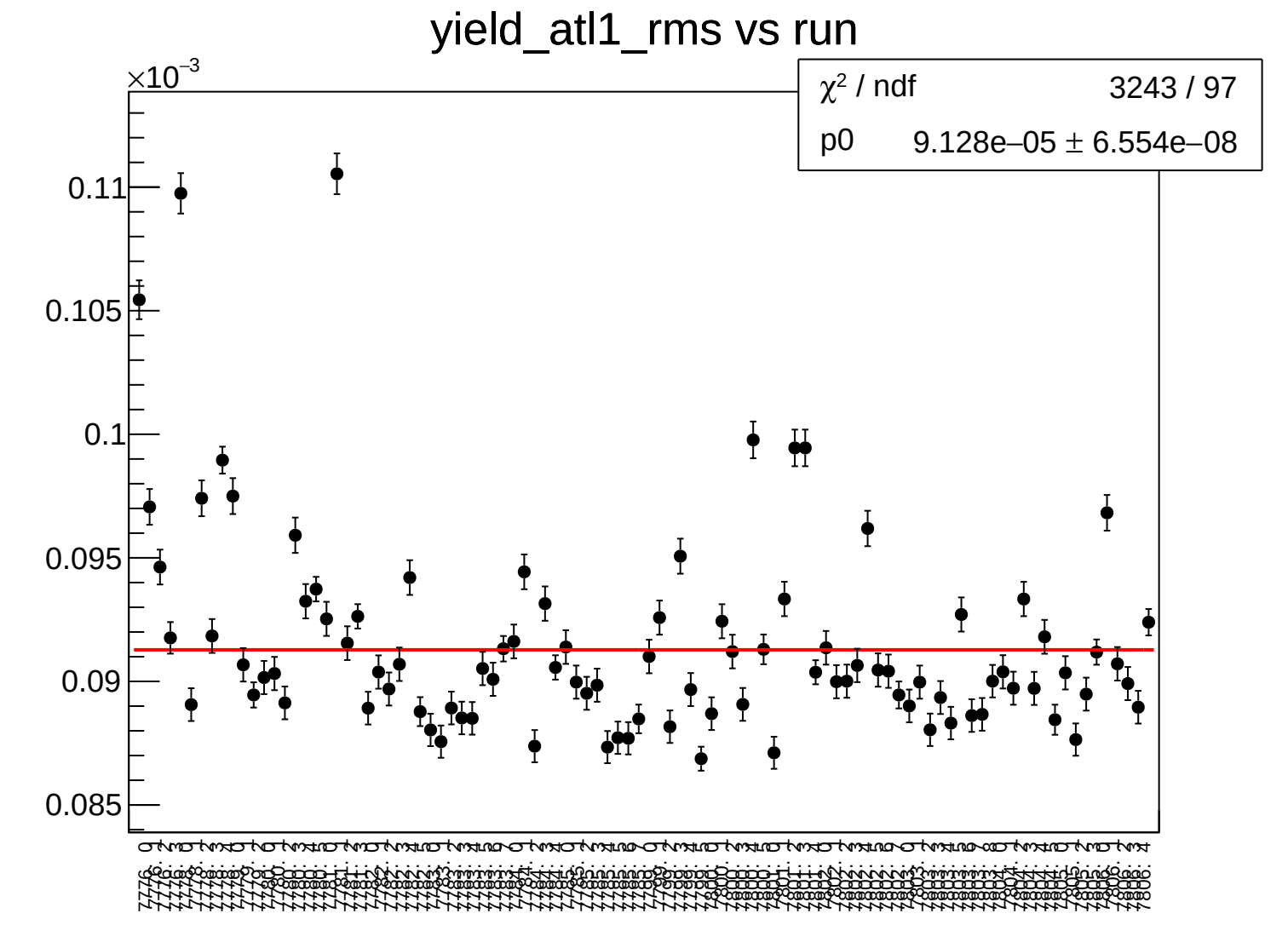

yield_dsl_rms vs run
χ² / ndf 3.976e+04 / 97
p0 0.05057 ± 3.666e−05
0.08
0.07
0.06
0.05
0.04

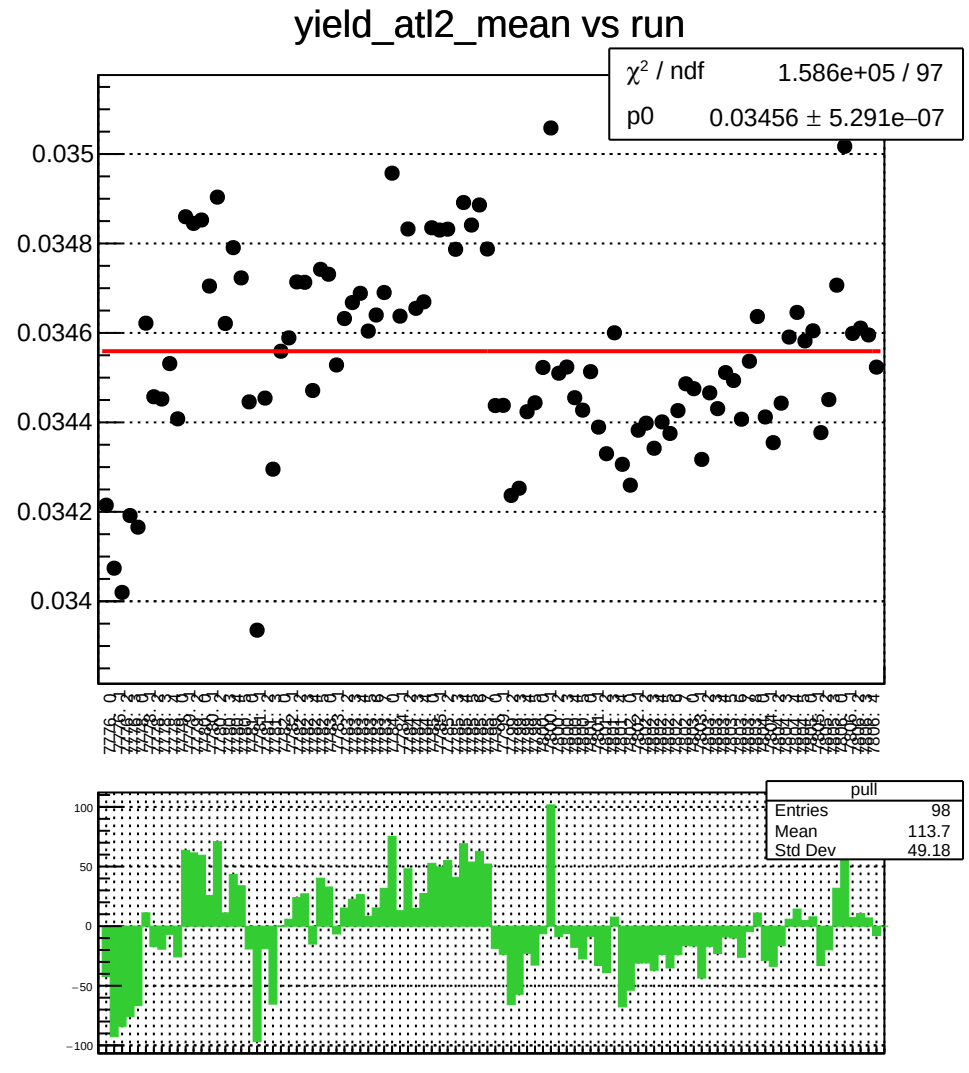

yield_dsr_mean vs run
χ² / ndf 3.236e+06 / 97
p0 −25.42 ± 5.284e−05
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
pull
Entries 98
Mean 1082
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 98
Mean 3.826
Std Dev 3.79
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

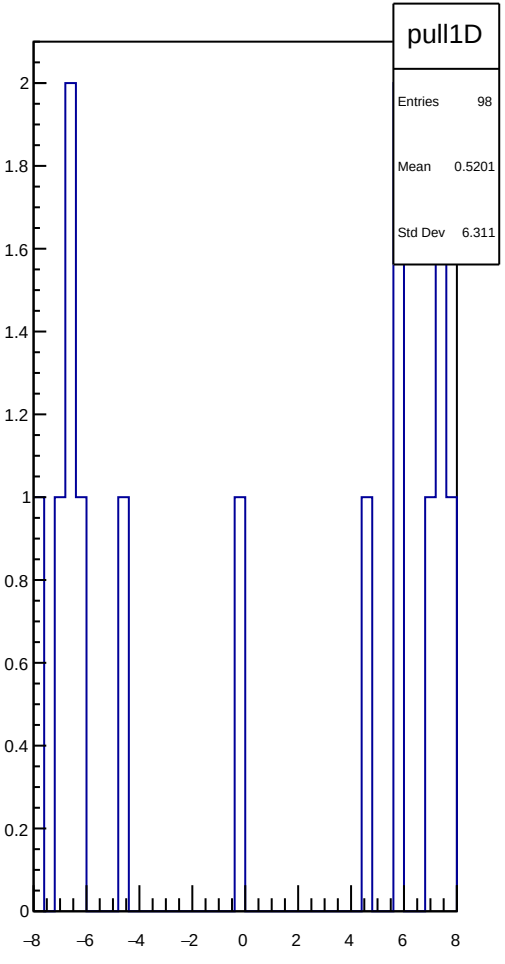

yield_dsr_rms vs run
χ² / ndf 3.899e+04 / 97
p0 0.05156 ± 3.737e–05
0.08
0.07
0.06
0.05
0.04

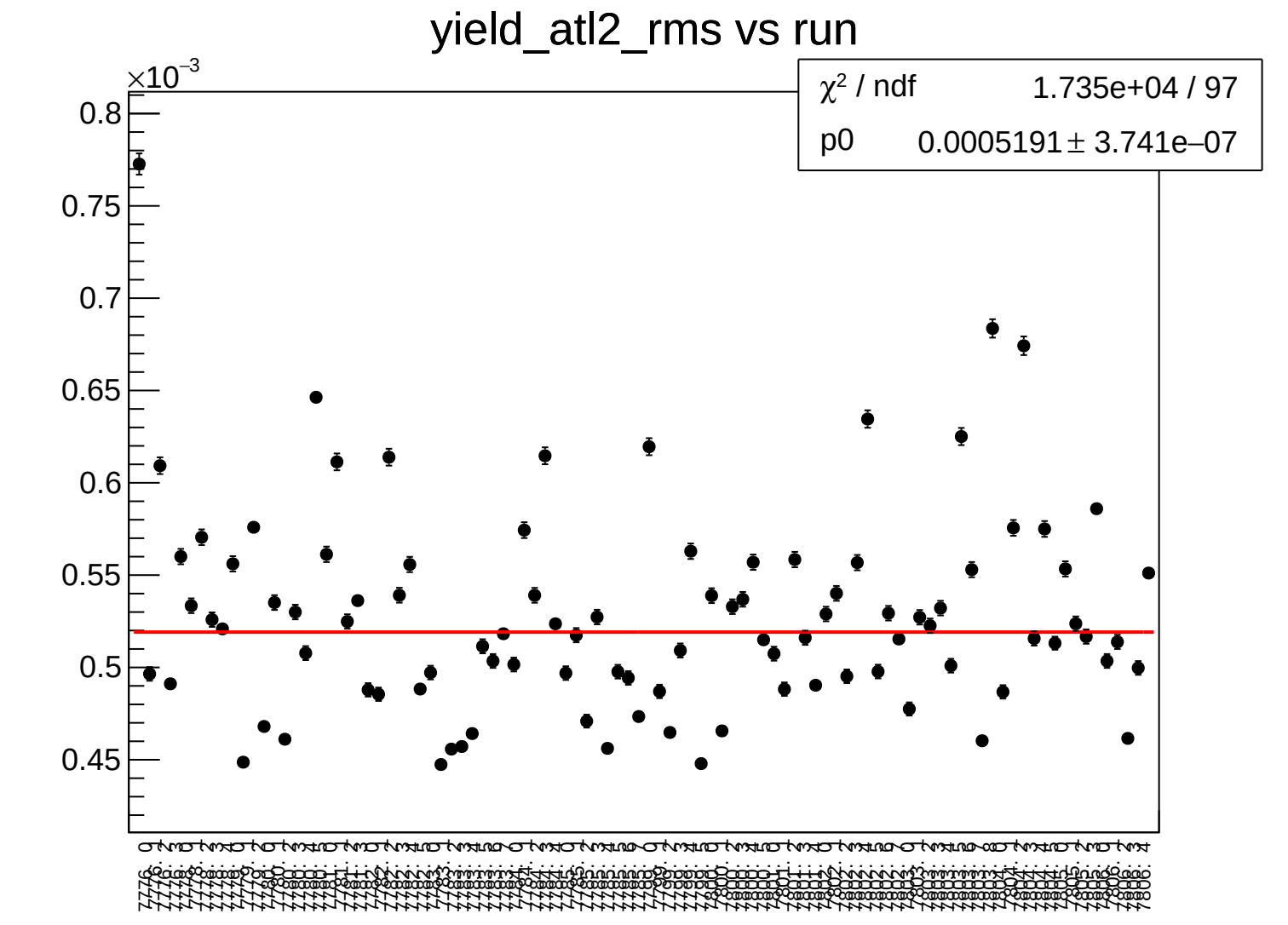

yield_atl1_mean vs run
χ² / ndf 8.824e+05 / 97
p0 0.02723 ± 9.269e−08
0.0275
0.02745
0.0274
0.02735
0.0273
0.02725
0.0272
0.02715
0.0271
pull
Entries 98
Mean −3260
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

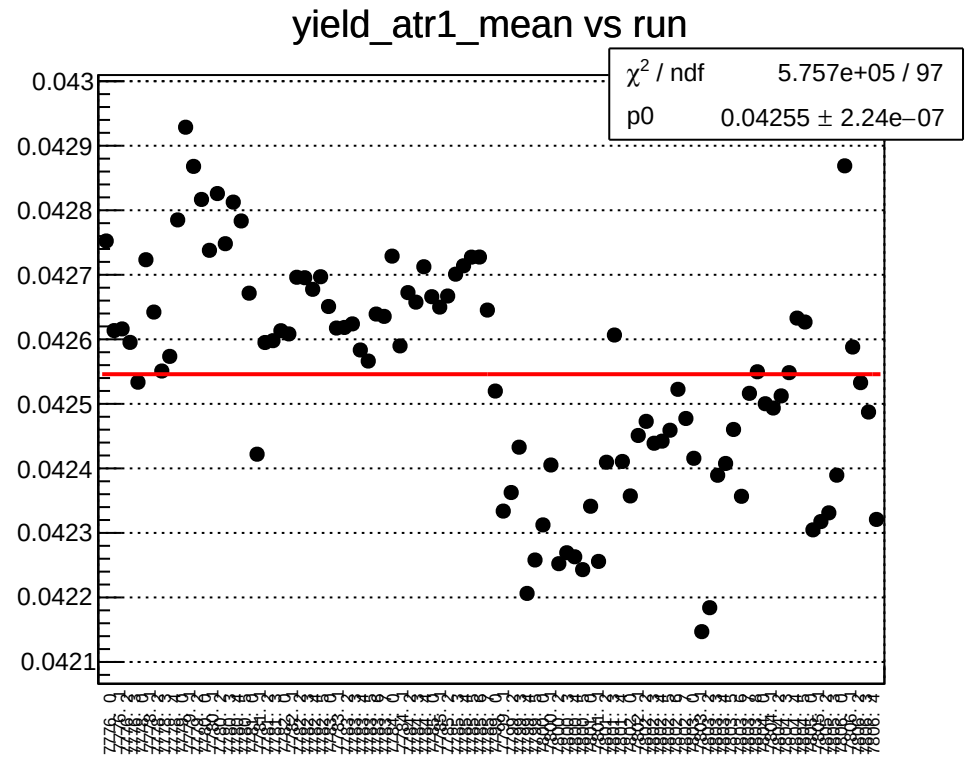

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

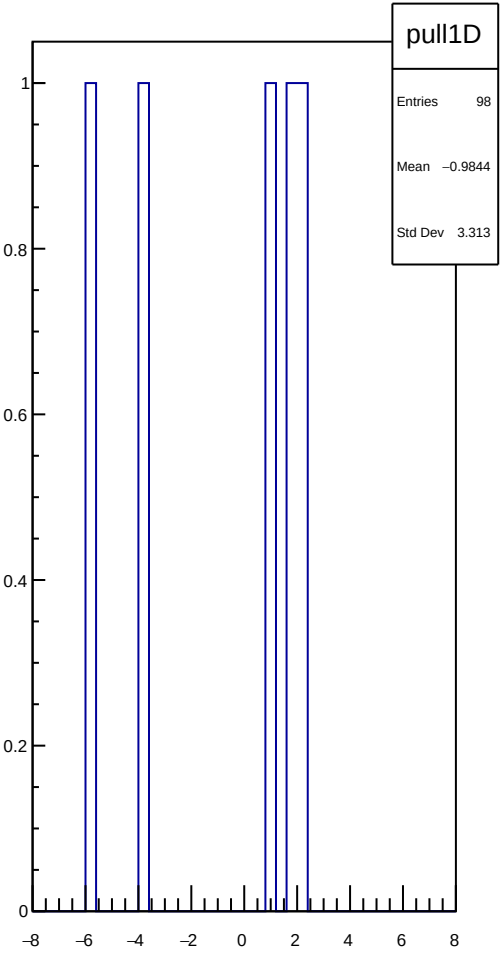

yield_atl1_rms vs run
×10⁻³
χ² / ndf 3243 / 97
p0 9.128e−05 ± 6.554e−08
0.11
0.105
0.1
0.095
0.09
0.085

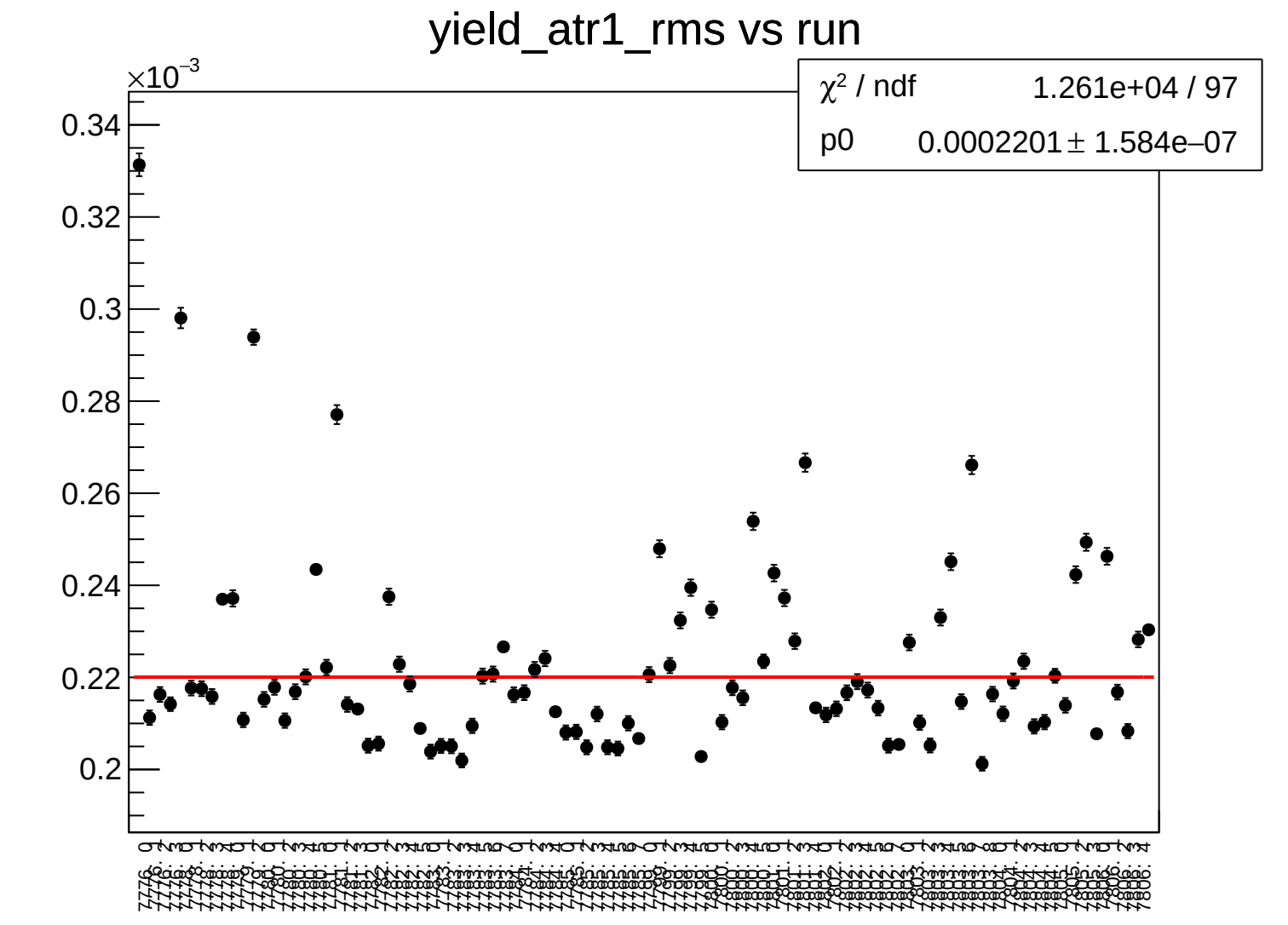

yield_atl2_mean vs run
χ² / ndf 1.586e+05 / 97
p0 0.03456 ± 5.291e−07
0.035
0.0348
0.0346
0.0344
0.0342
0.034
pull
Entries 98
Mean 113.7
Std Dev 49.18
100
50
0
−50
−100

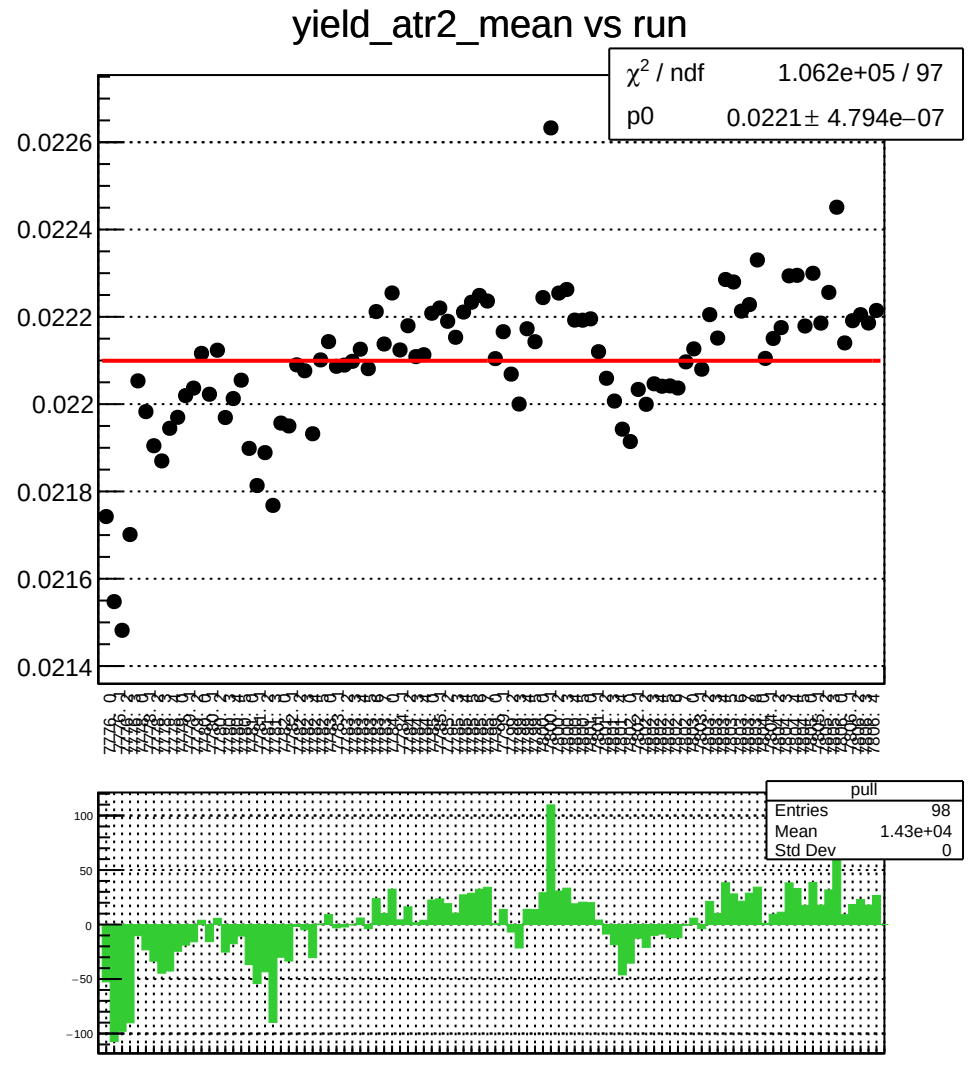

pull1D
Entries 98
Mean 0.5201
Std Dev 6.311
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

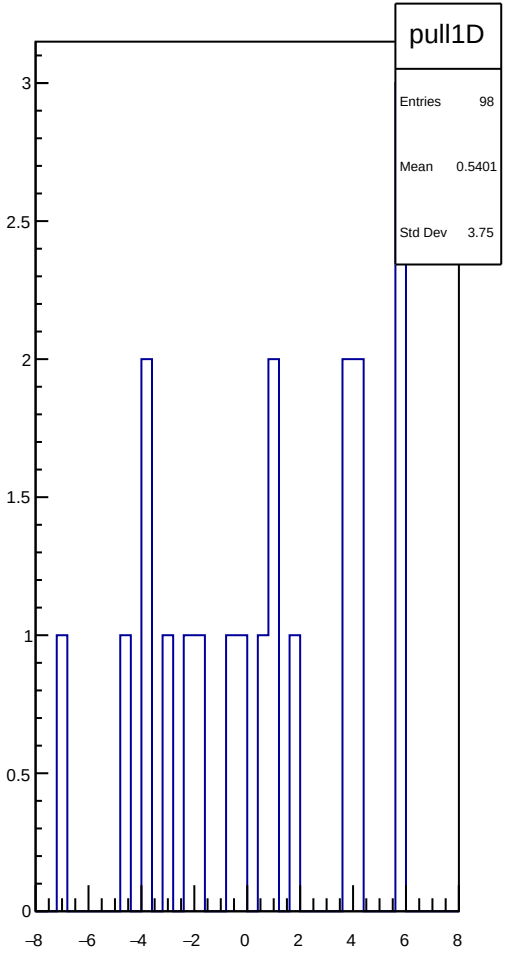

yield_atl2_rms vs run
×10⁻³
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
χ² / ndf 1.735e+04 / 97
p0 0.0005191 ± 3.741e–07

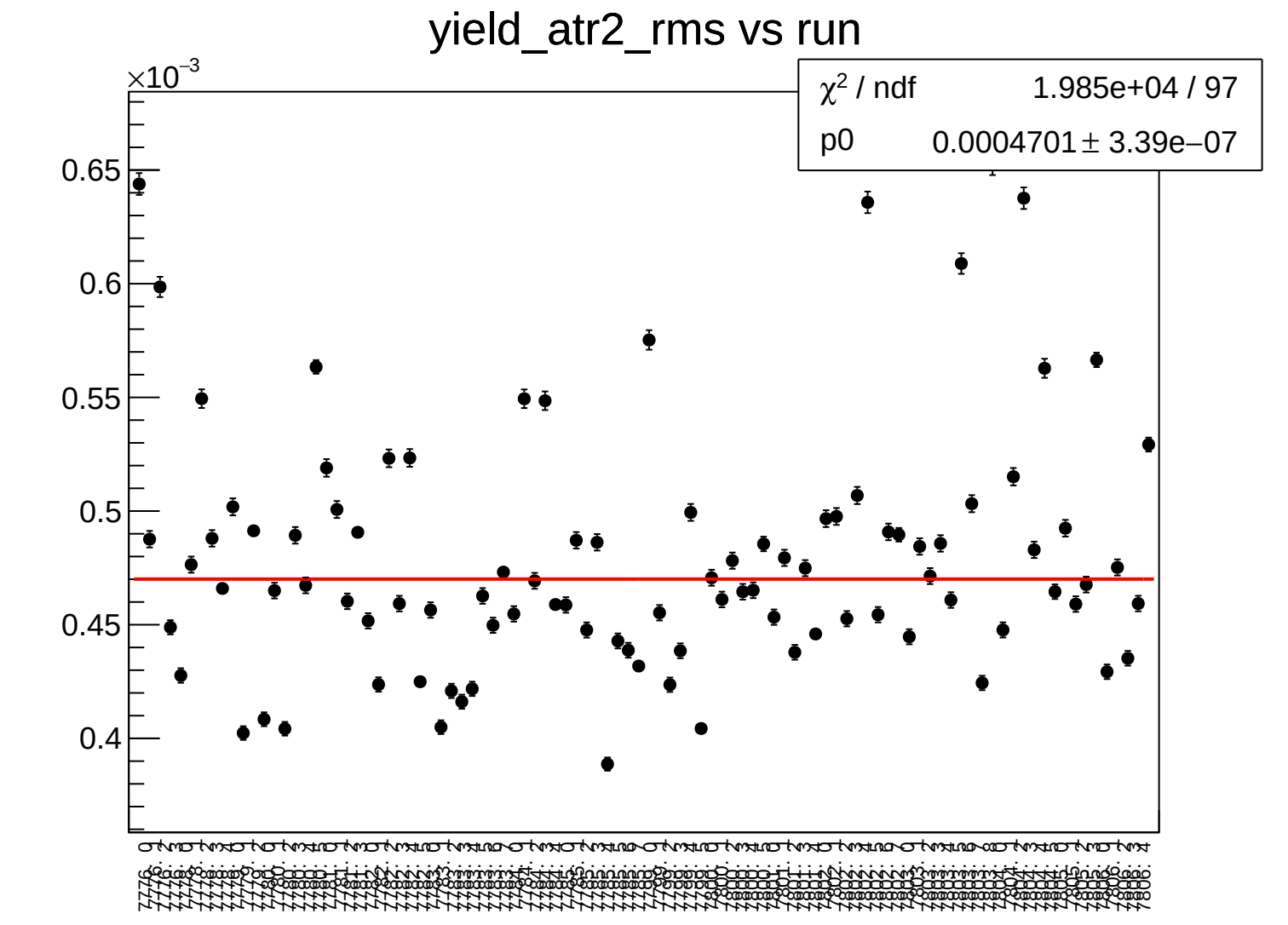

yield_atr1_mean vs run
χ² / ndf 5.757e+05 / 97
p0 0.04255 ± 2.24e−07
0.043
0.0429
0.0428
0.0427
0.0426
0.0425
0.0424
0.0423
0.0422
0.0421
pull
Entries 98
Mean 6646
Std Dev 0
150
100
50
0
−50
−100
−150

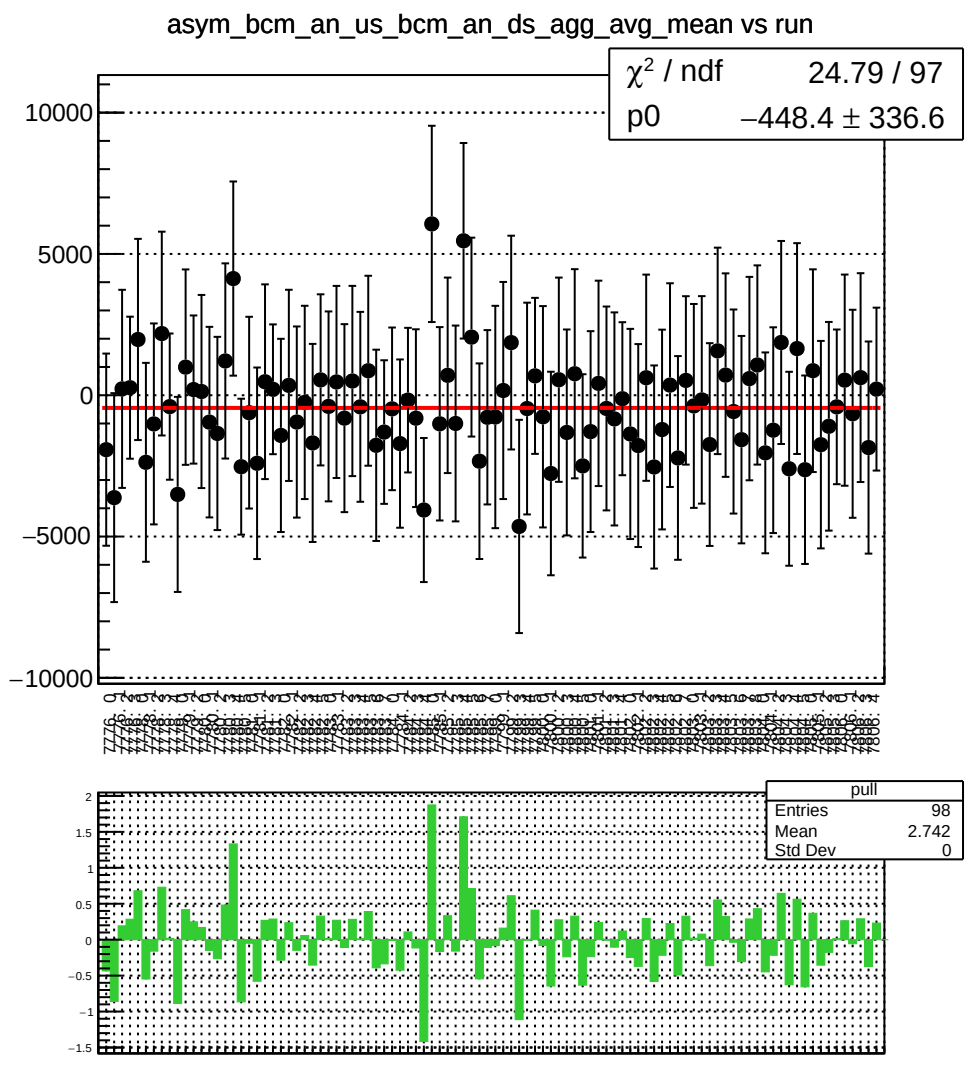

pull1D
Entries 98
Mean −0.9844
Std Dev 3.313
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

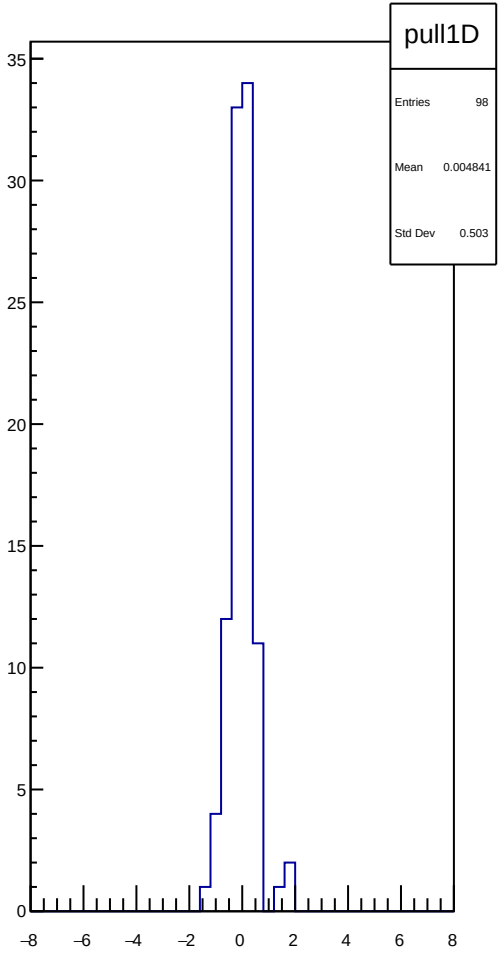

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.261e+04 / 97
p0 0.0002201 ± 1.584e−07
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2

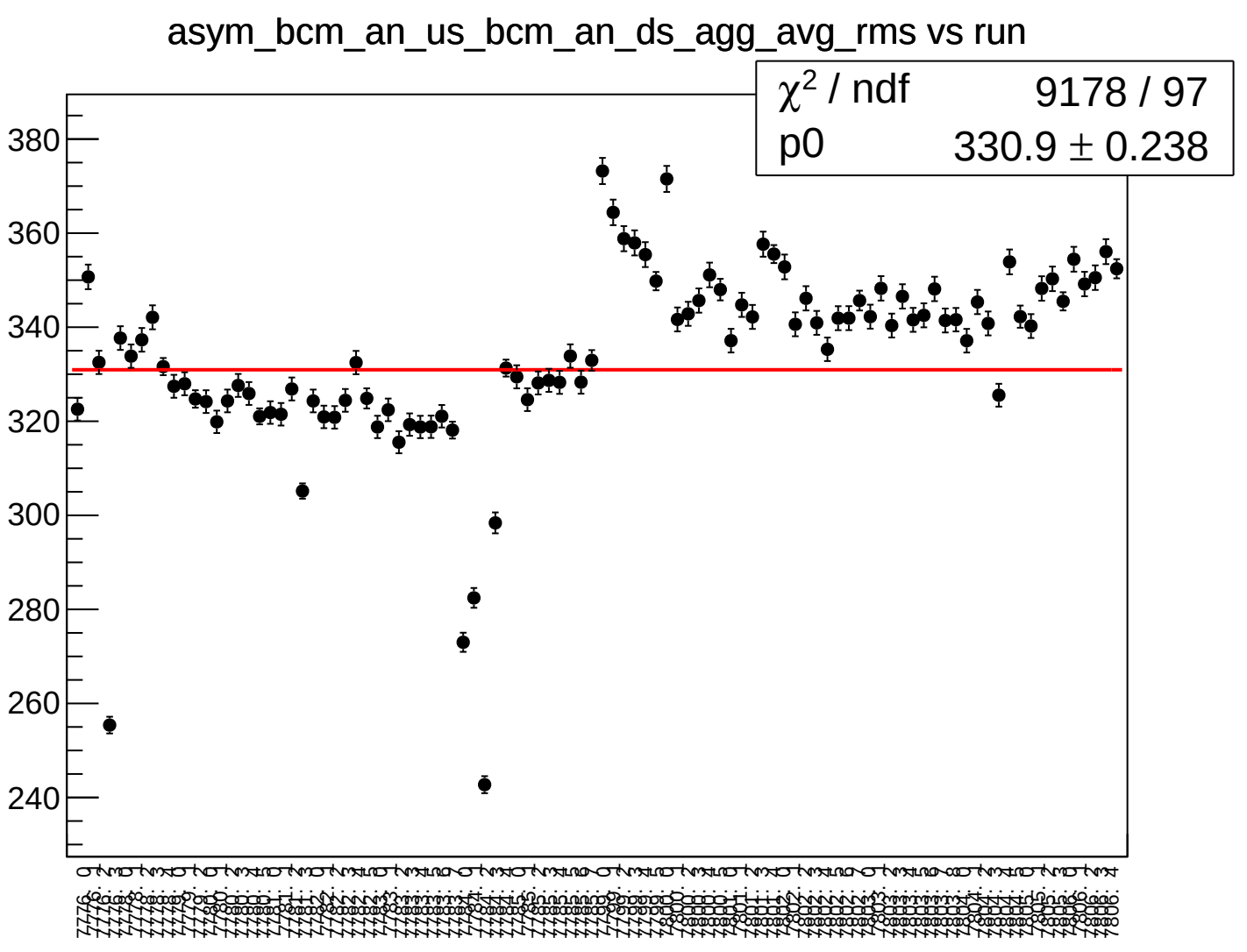

yield_atr2_mean vs run
χ² / ndf 1.062e+05 / 97
p0 0.0221 ± 4.794e−07
0.0226
0.0224
0.0222
0.022
0.0218
0.0216
0.0214
pull
Entries 98
Mean 1.43e+04
Std Dev 0
100
50
0
−50
−100

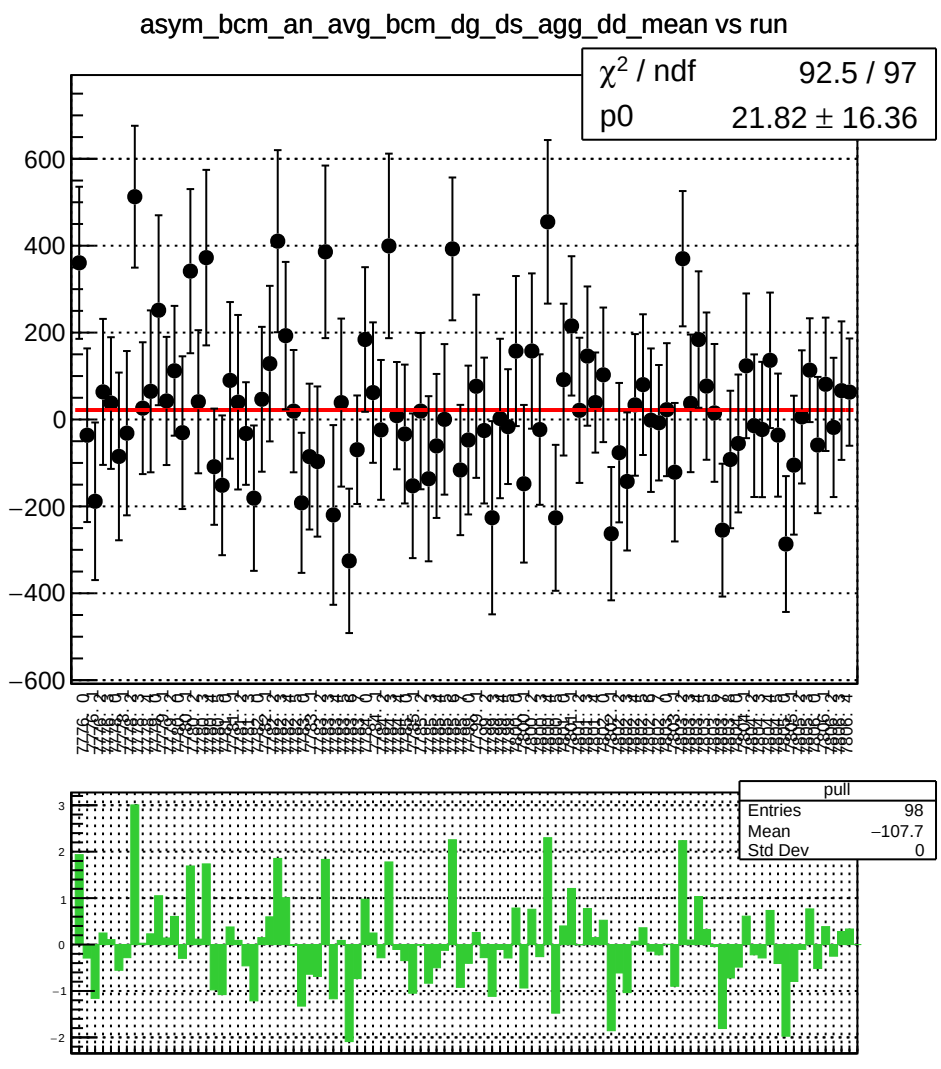

pull1D
Entries 98
Mean 0.5401
Std Dev 3.75
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

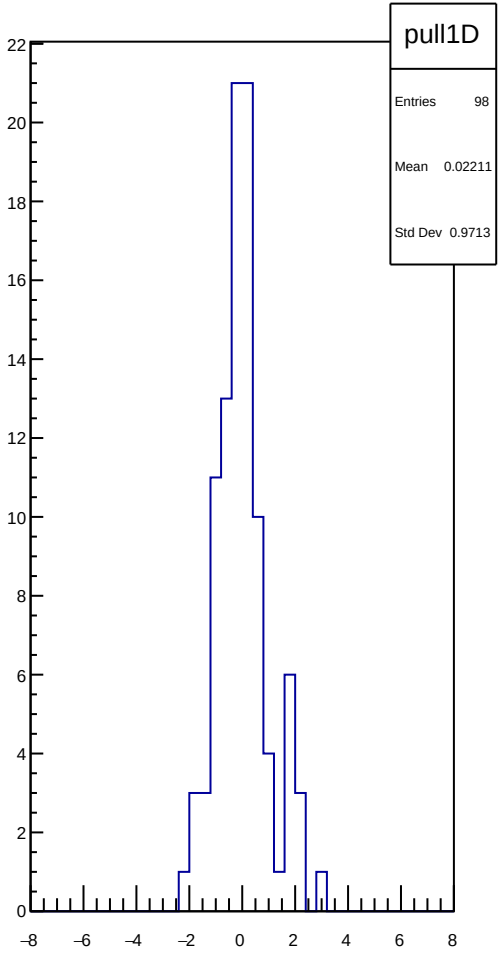

yield_atr2_rms vs run
×10⁻³
χ² / ndf 1.985e+04 / 97
p0 0.0004701 ± 3.39e−07
0.65
0.6
0.55
0.5
0.45
0.4

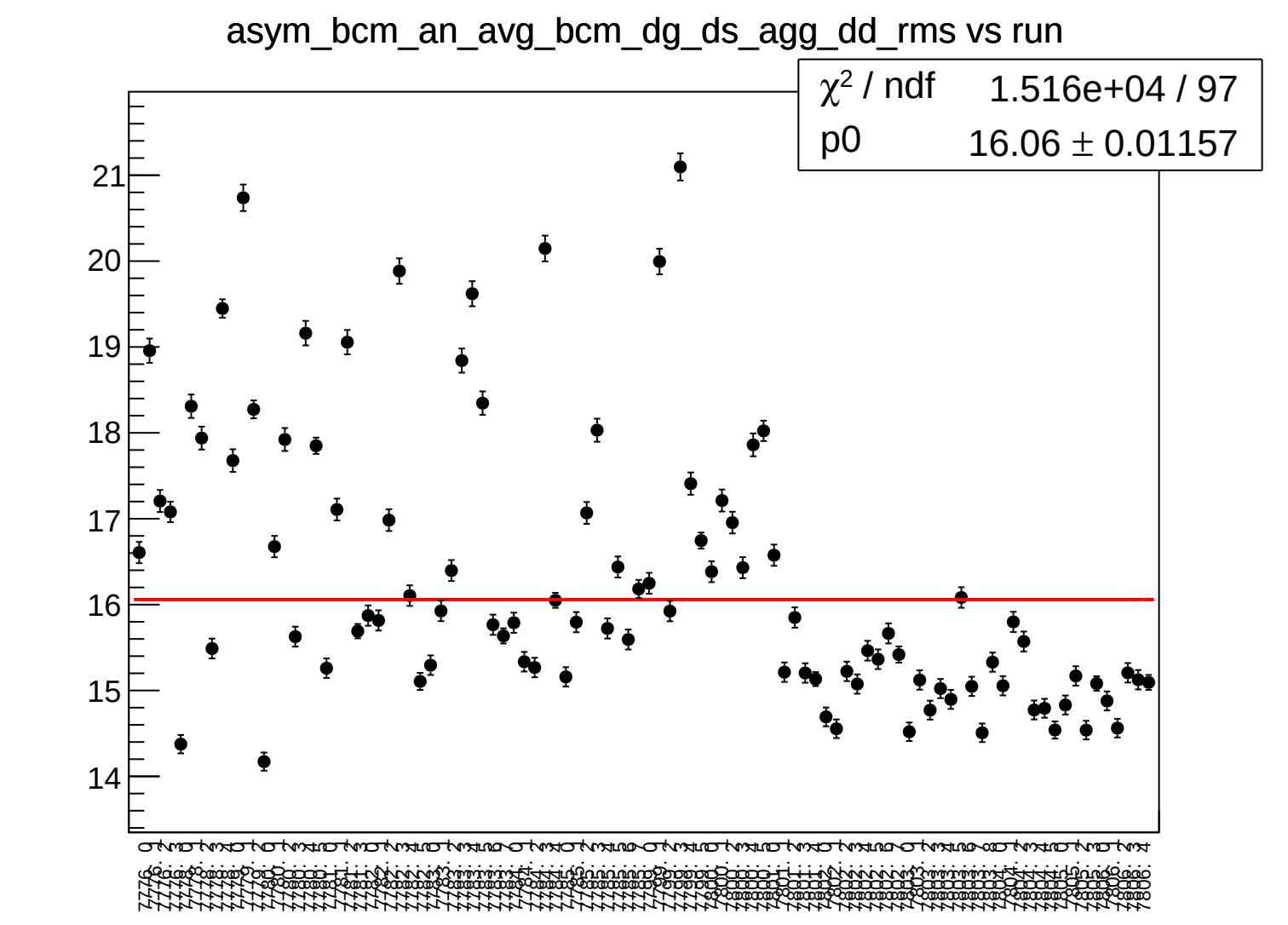

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.79 / 97
p0 −448.4 ± 336.6
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 2.742
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

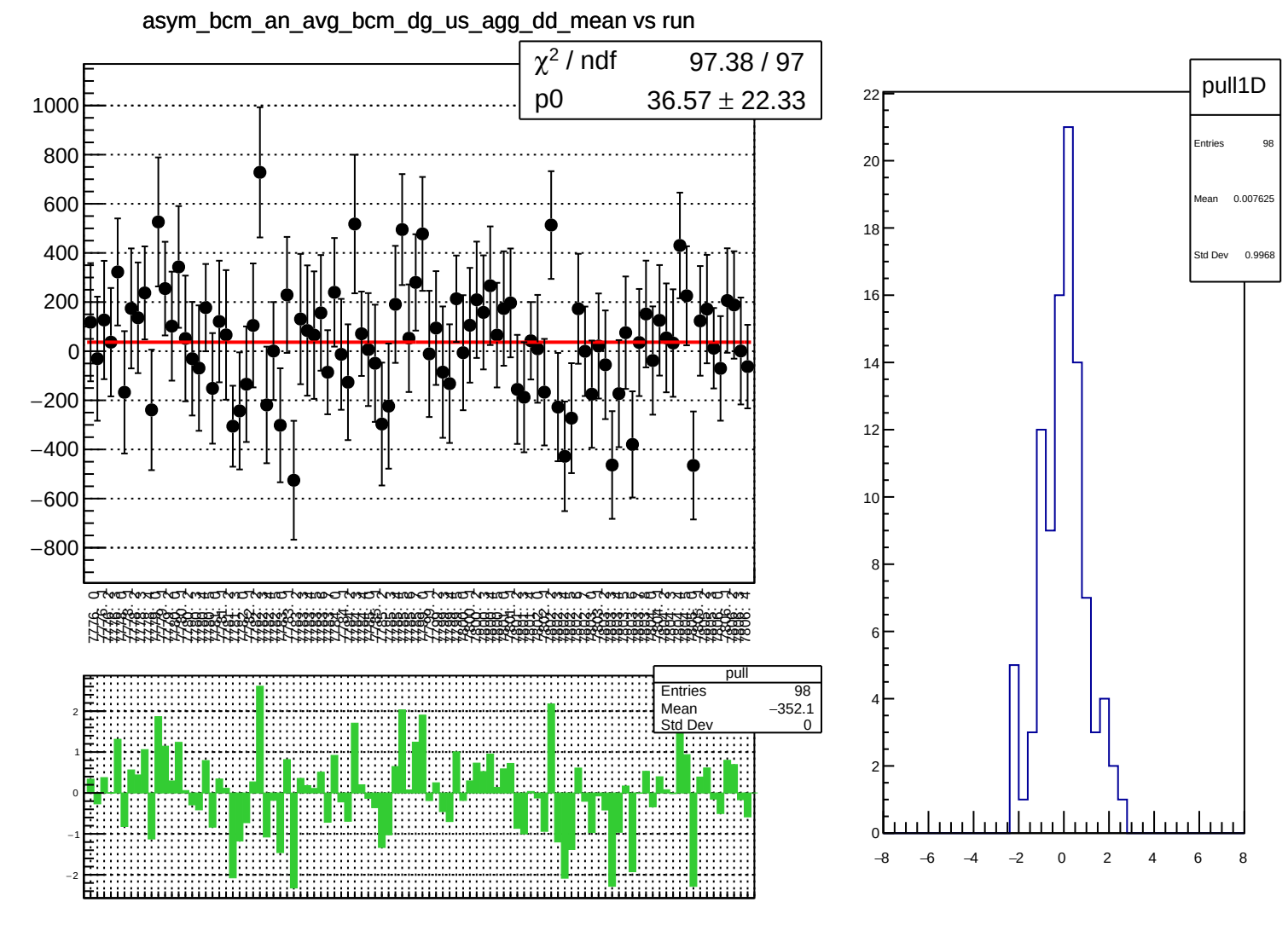

pull1D
Entries 98
Mean 0.004841
Std Dev 0.503
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

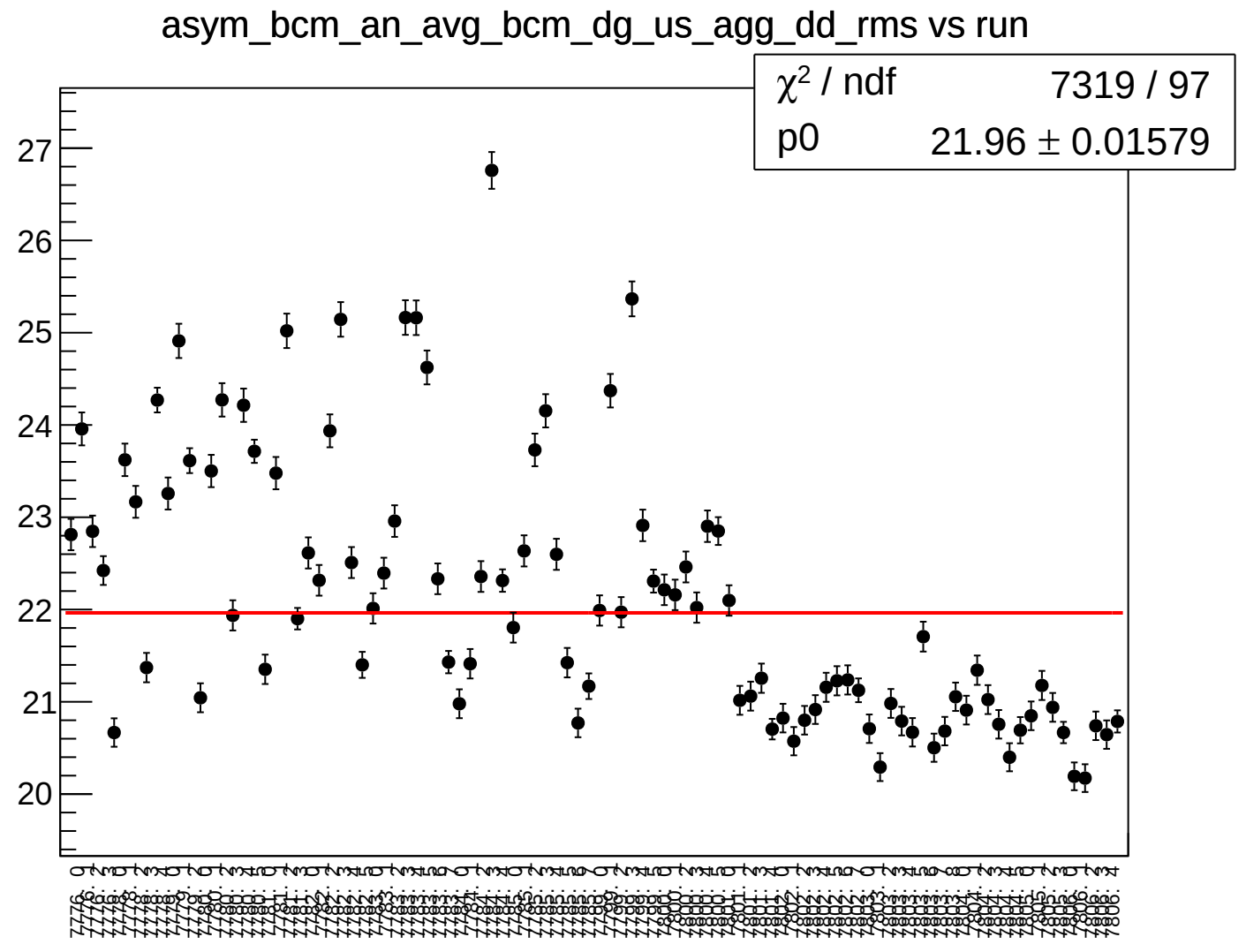

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9178 / 97
p0 330.9 ± 0.238
380
360
340
320
300
280
260
240

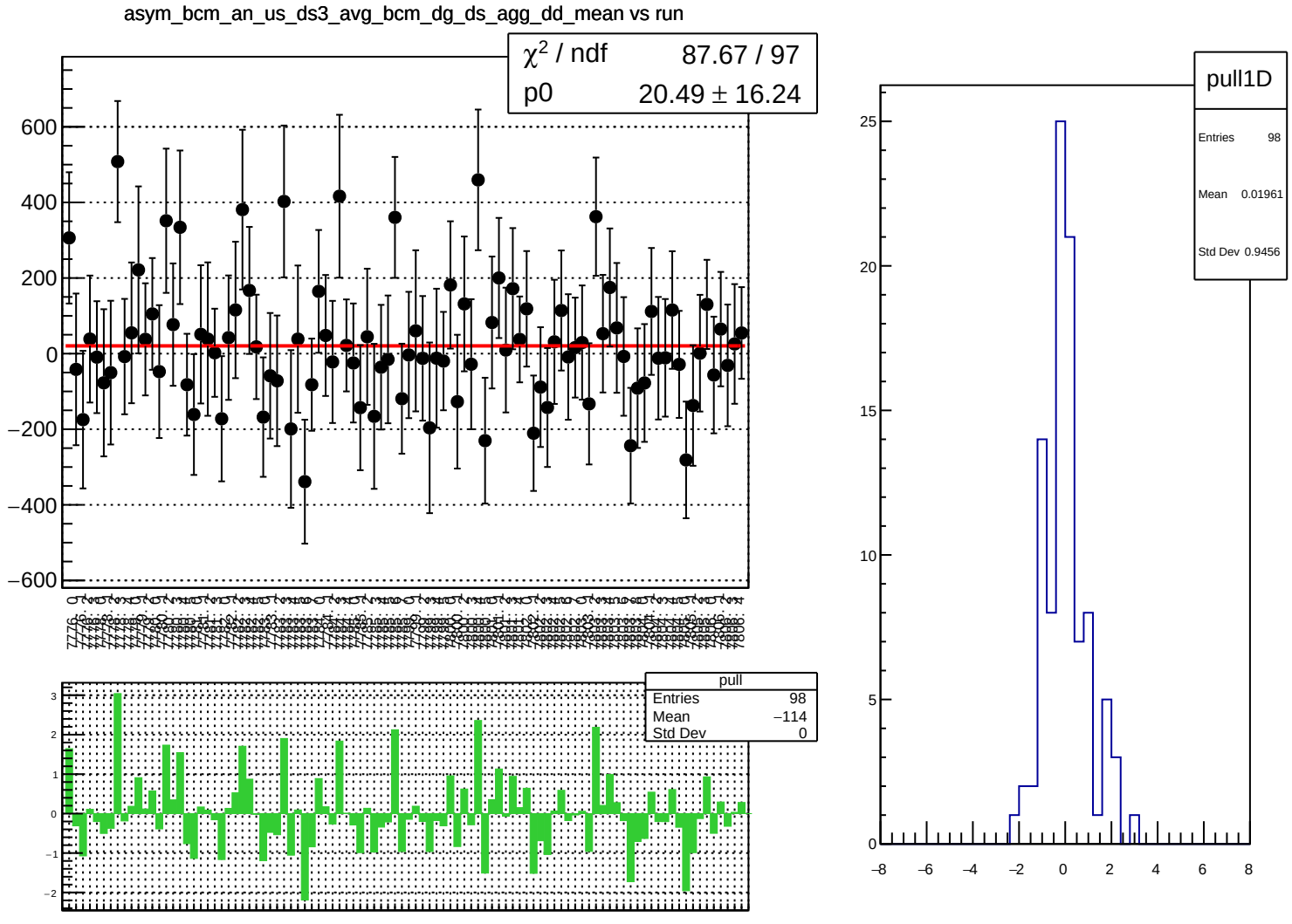

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ^2 / ndf 92.5 / 97
p0 21.82 ± 16.36
pull
Entries 98
Mean −107.7
Std Dev 0

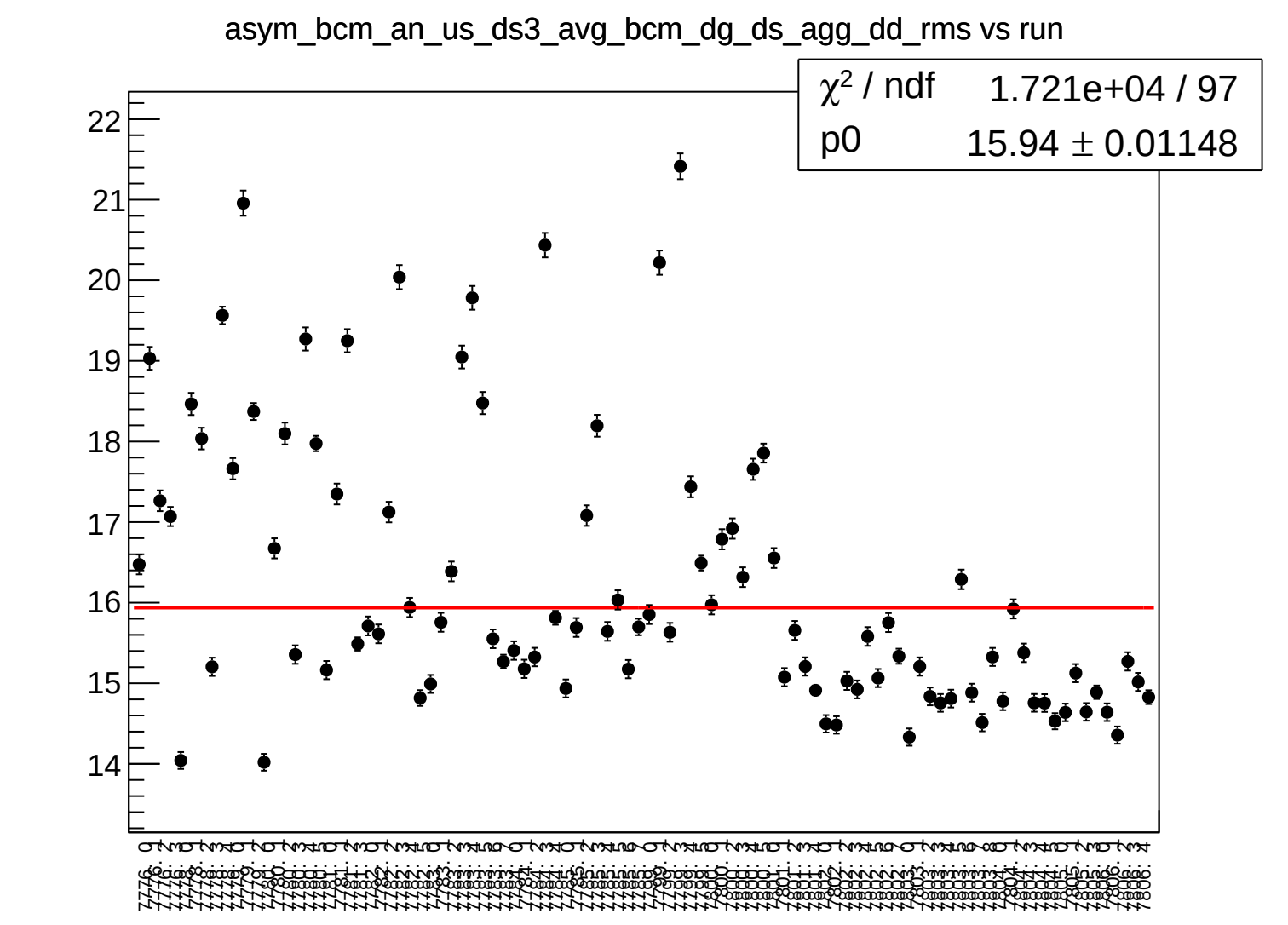

pull1D
Entries 98
Mean 0.02211
Std Dev 0.9713

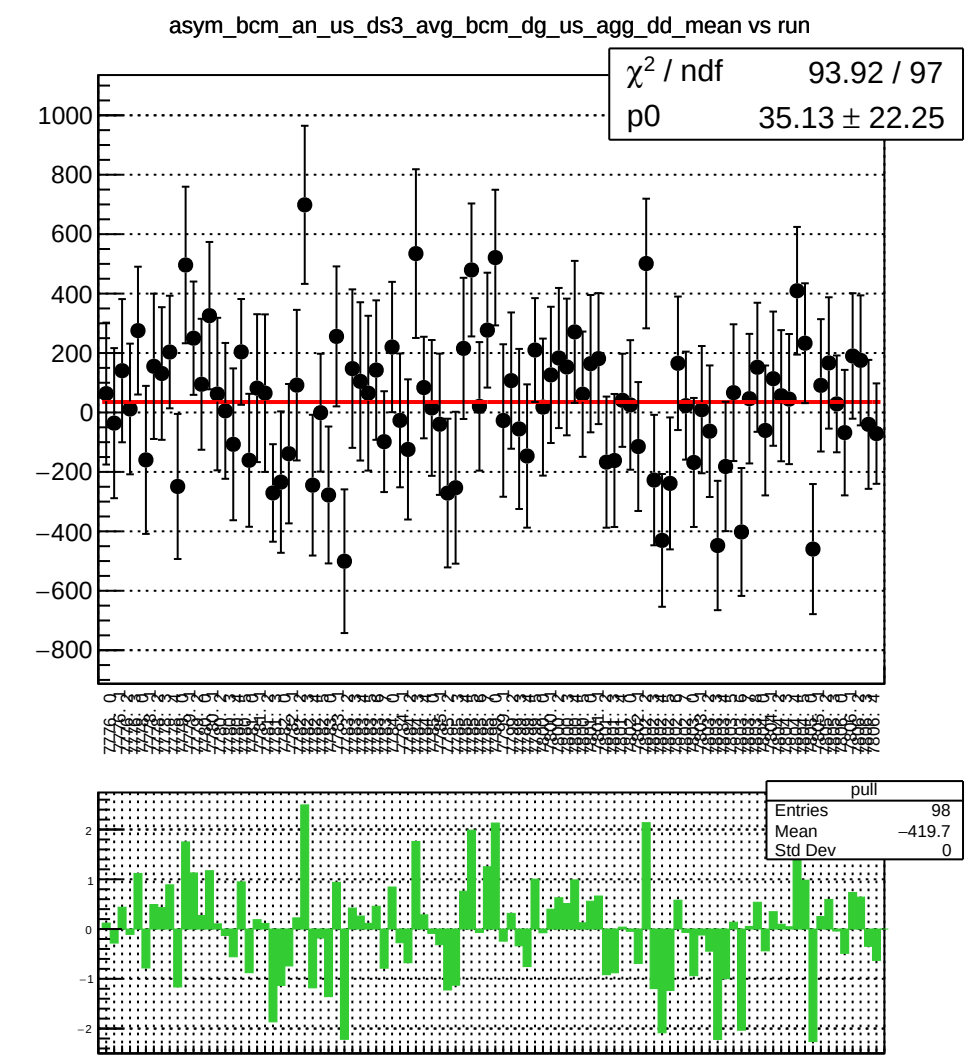

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.516e+04 / 97
p0 16.06 ± 0.01157
21
20
19
18
17
16
15
14

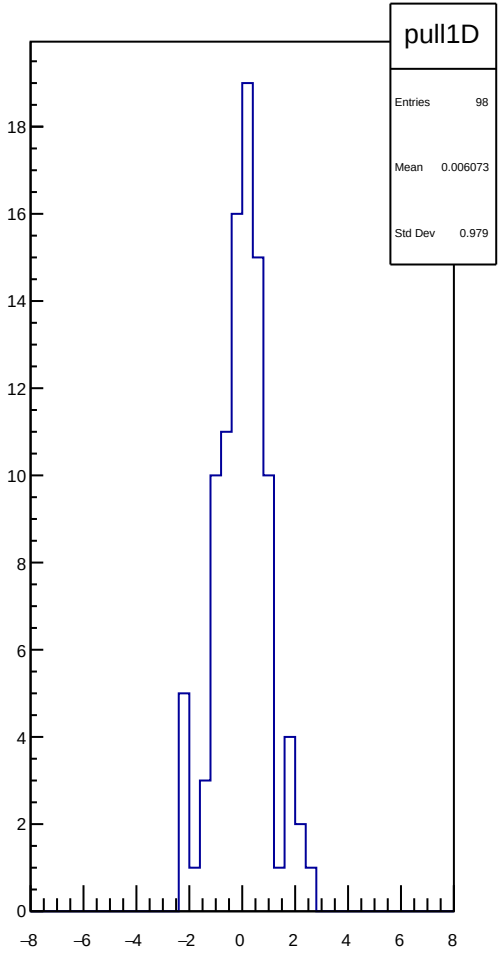

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 97.38 / 97
p0 36.57 ± 22.33
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 98
Mean −352.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.007625
Std Dev 0.9968
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

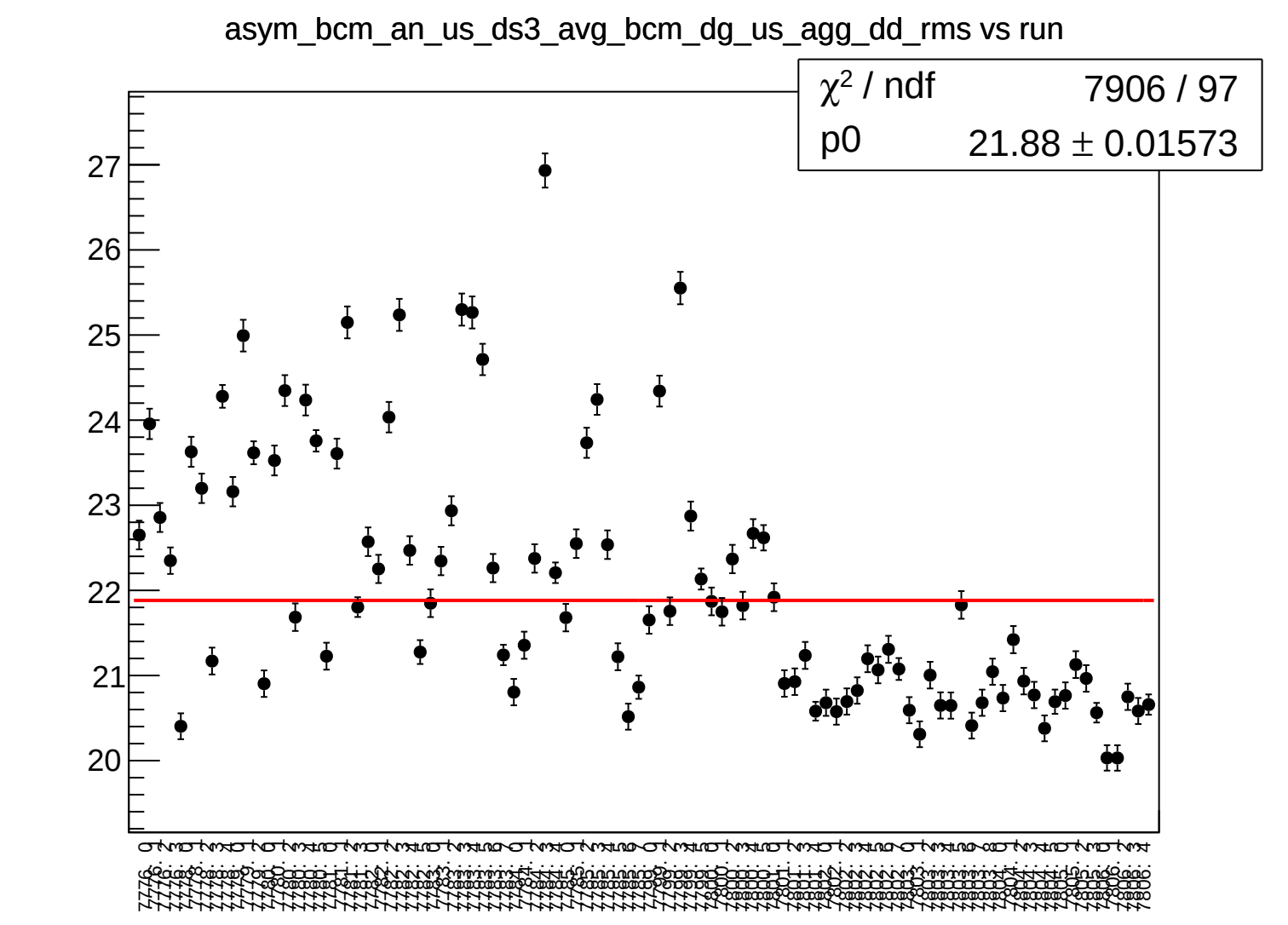

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 7319 / 97
p0 21.96 ± 0.01579
27
26
25
24
23
22
21
20

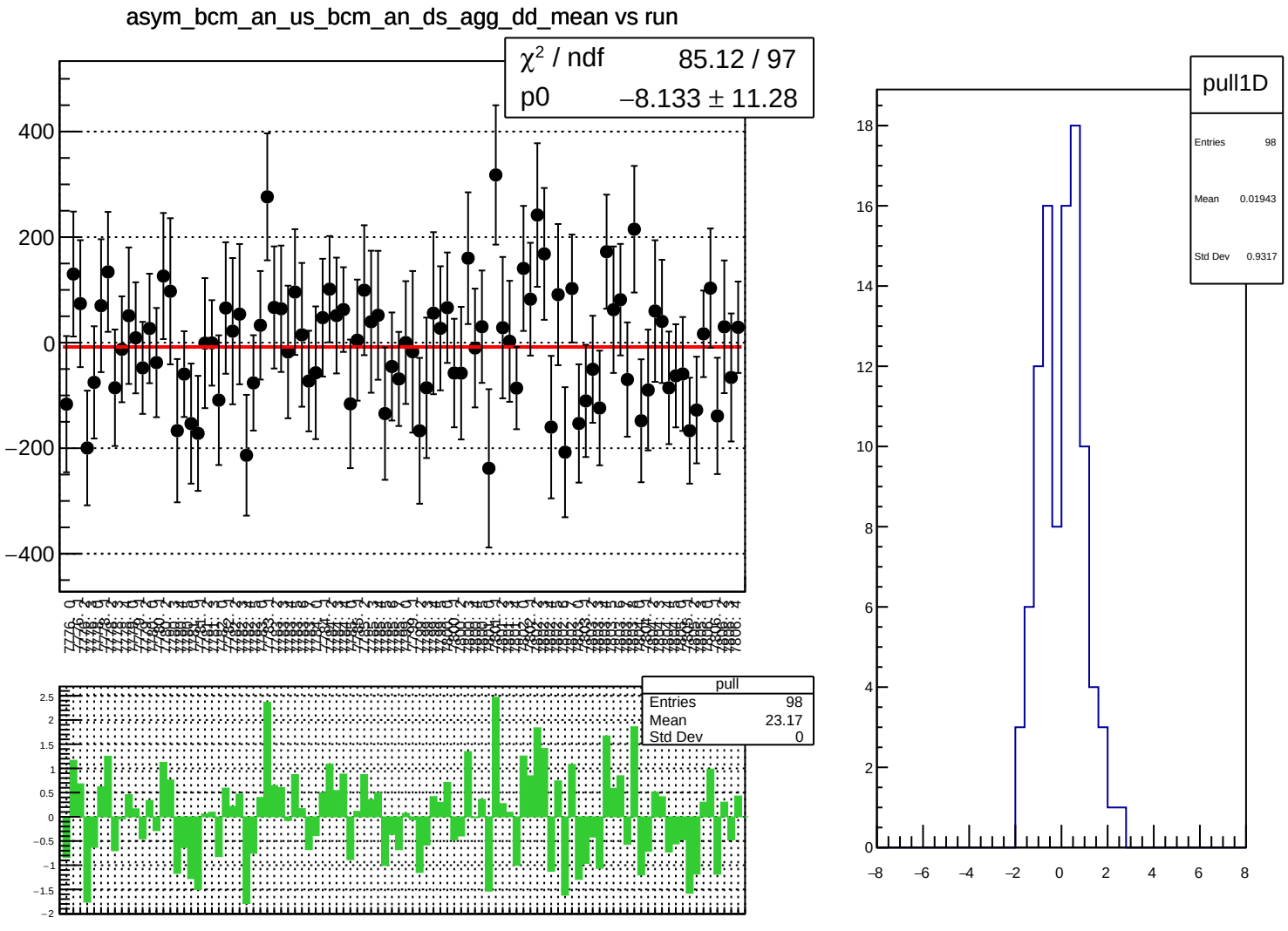

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 87.67 / 97
p0 20.49 ± 16.24
600
400
200
0
−200
−400
−600
pull
Entries 98
Mean −114
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01961
Std Dev 0.9456
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

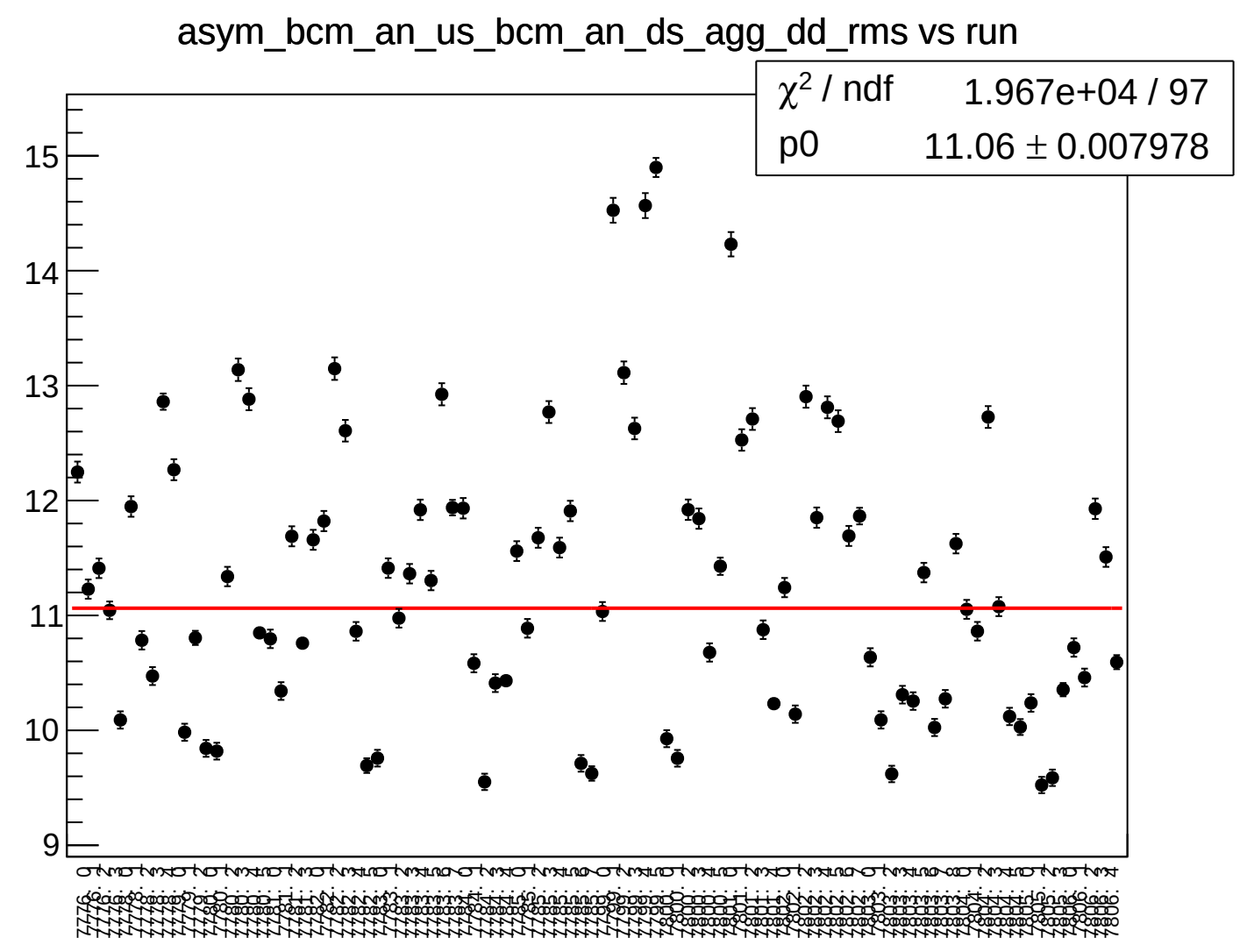

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.721e+04 / 97
p0 15.94 ± 0.01148
22
21
20
19
18
17
16
15
14

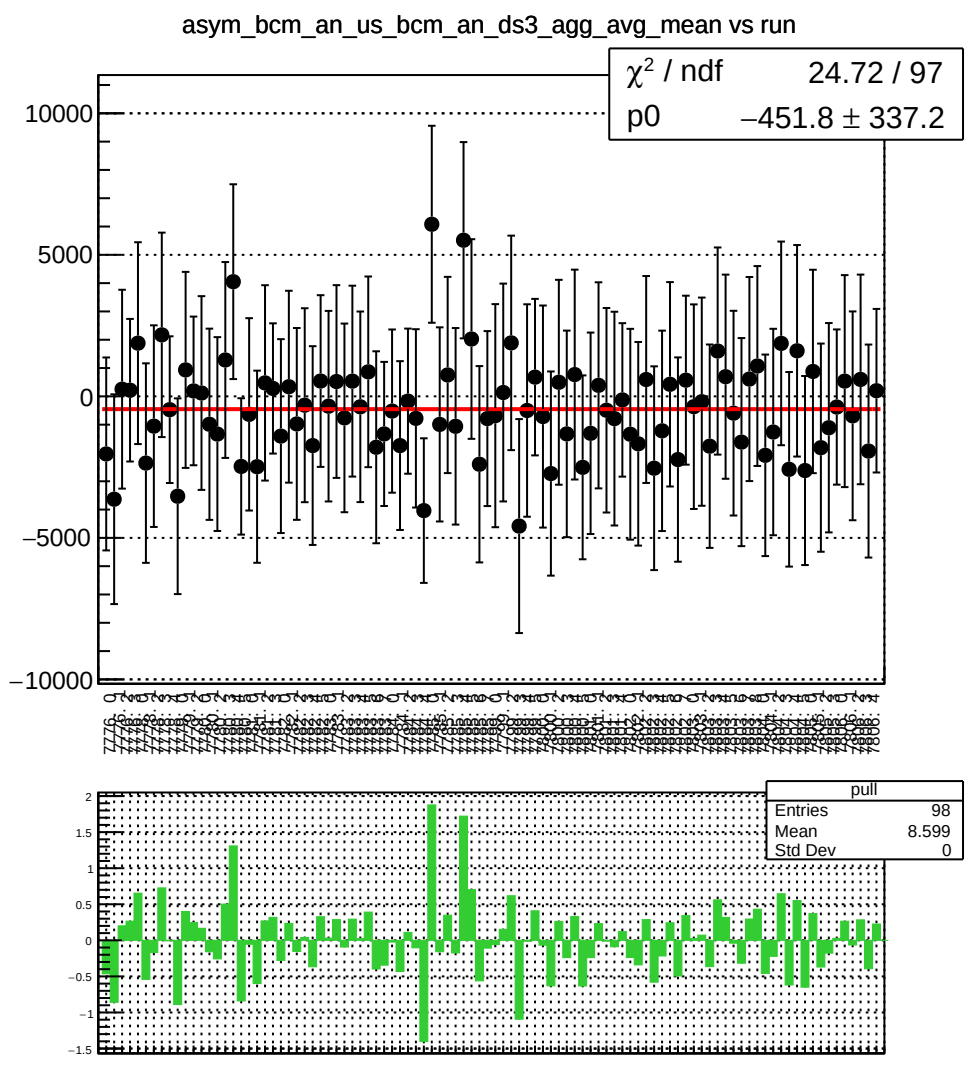

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 93.92 / 97
p0 35.13 ± 22.25
pull
Entries 98
Mean −419.7
Std Dev 0

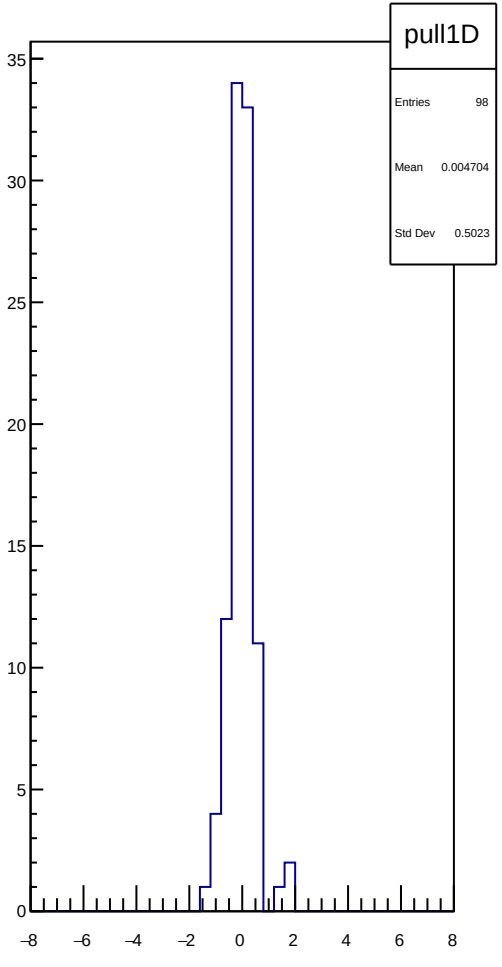

pull1D
Entries 98
Mean 0.006073
Std Dev 0.979

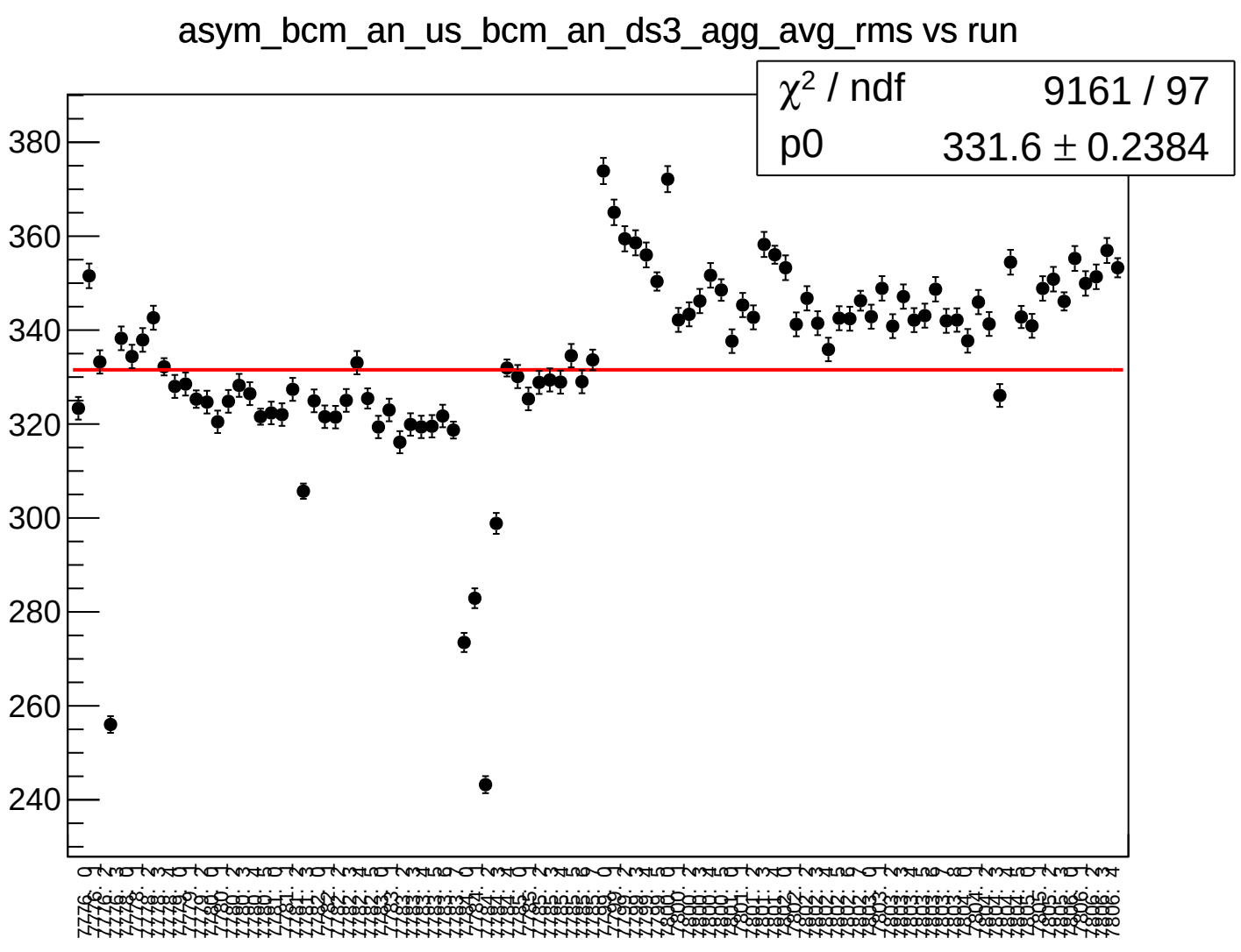

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 7906 / 97
p0 21.88 ± 0.01573
27
26
25
24
23
22
21
20

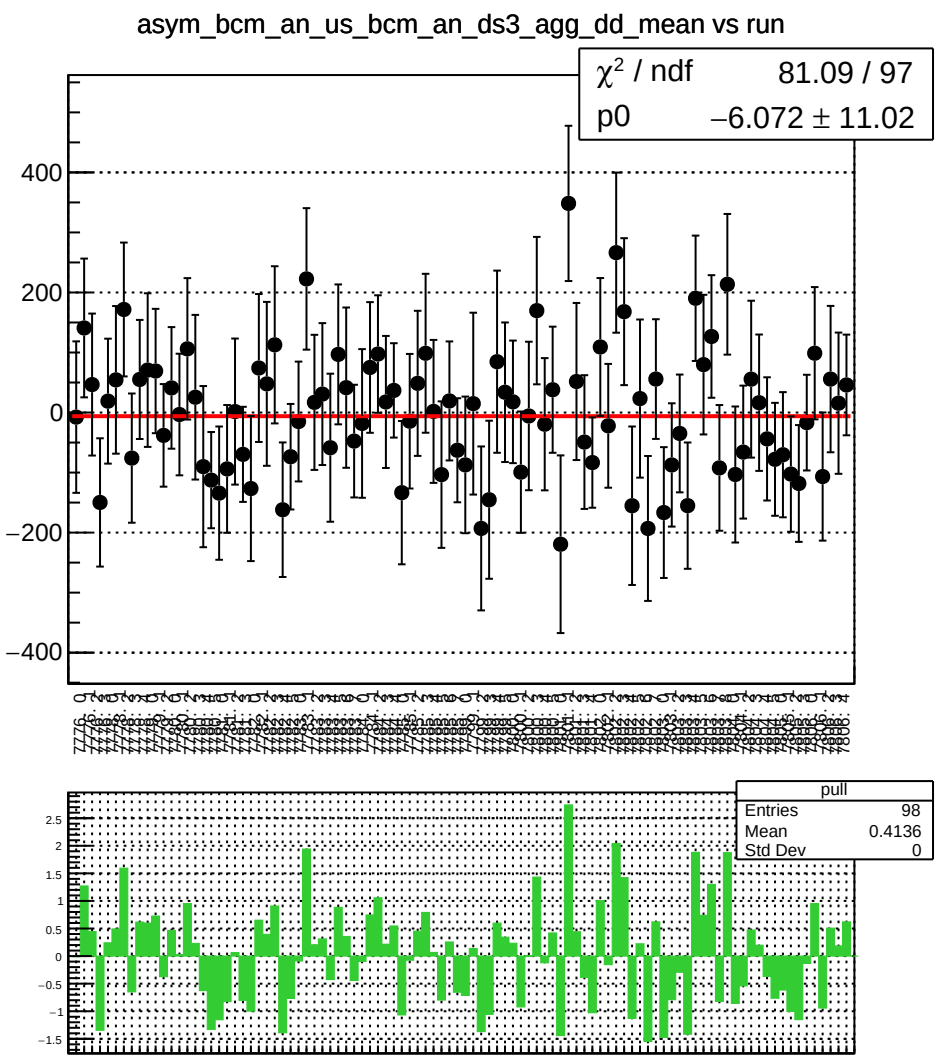

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 85.12 / 97
p0 −8.133 ± 11.28
400
200
0
−200
−400
pull
Entries 98
Mean 23.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.01943
Std Dev 0.9317
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

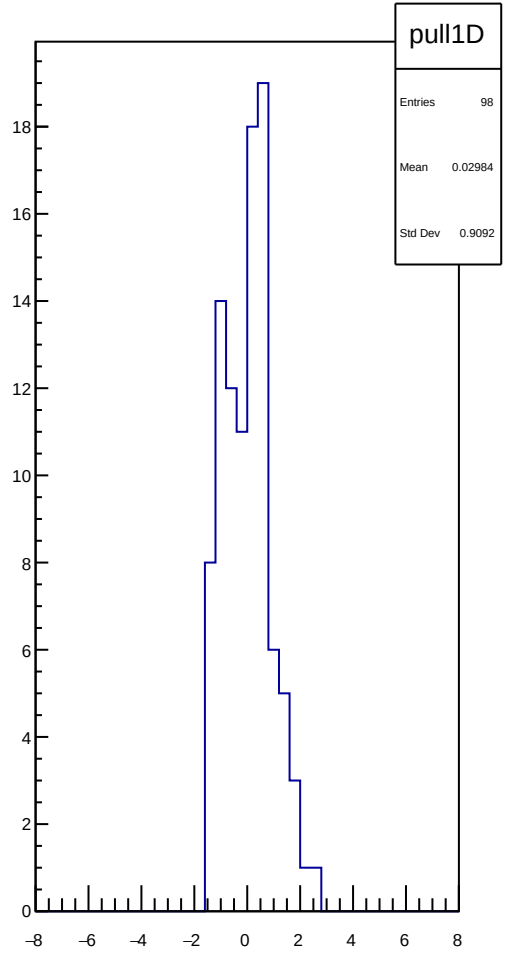

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.967e+04 / 97
p0 11.06 ± 0.007978
15
14
13
12
11
10
9

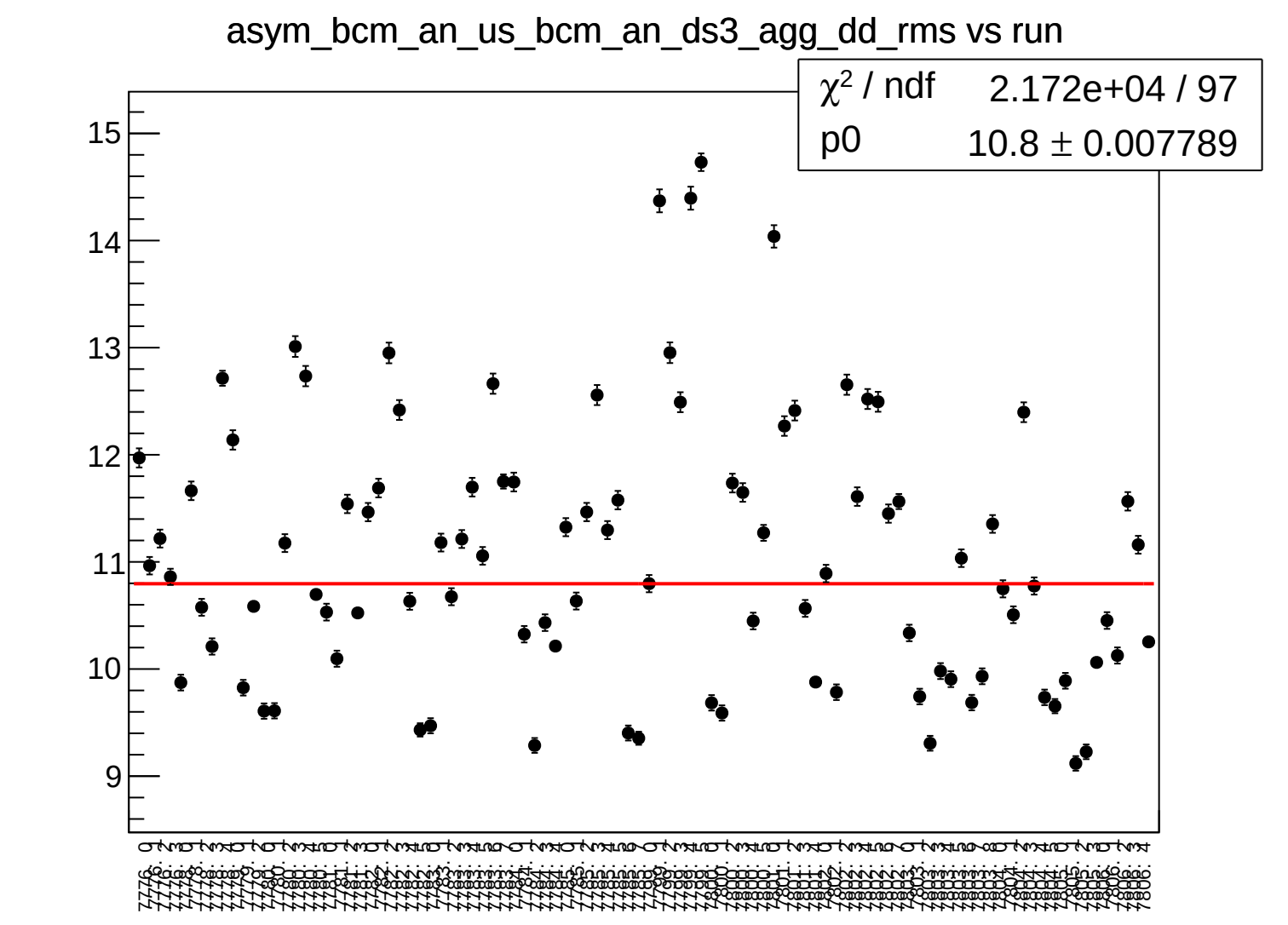

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 24.72 / 97
p0 −451.8 ± 337.2
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 8.599
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

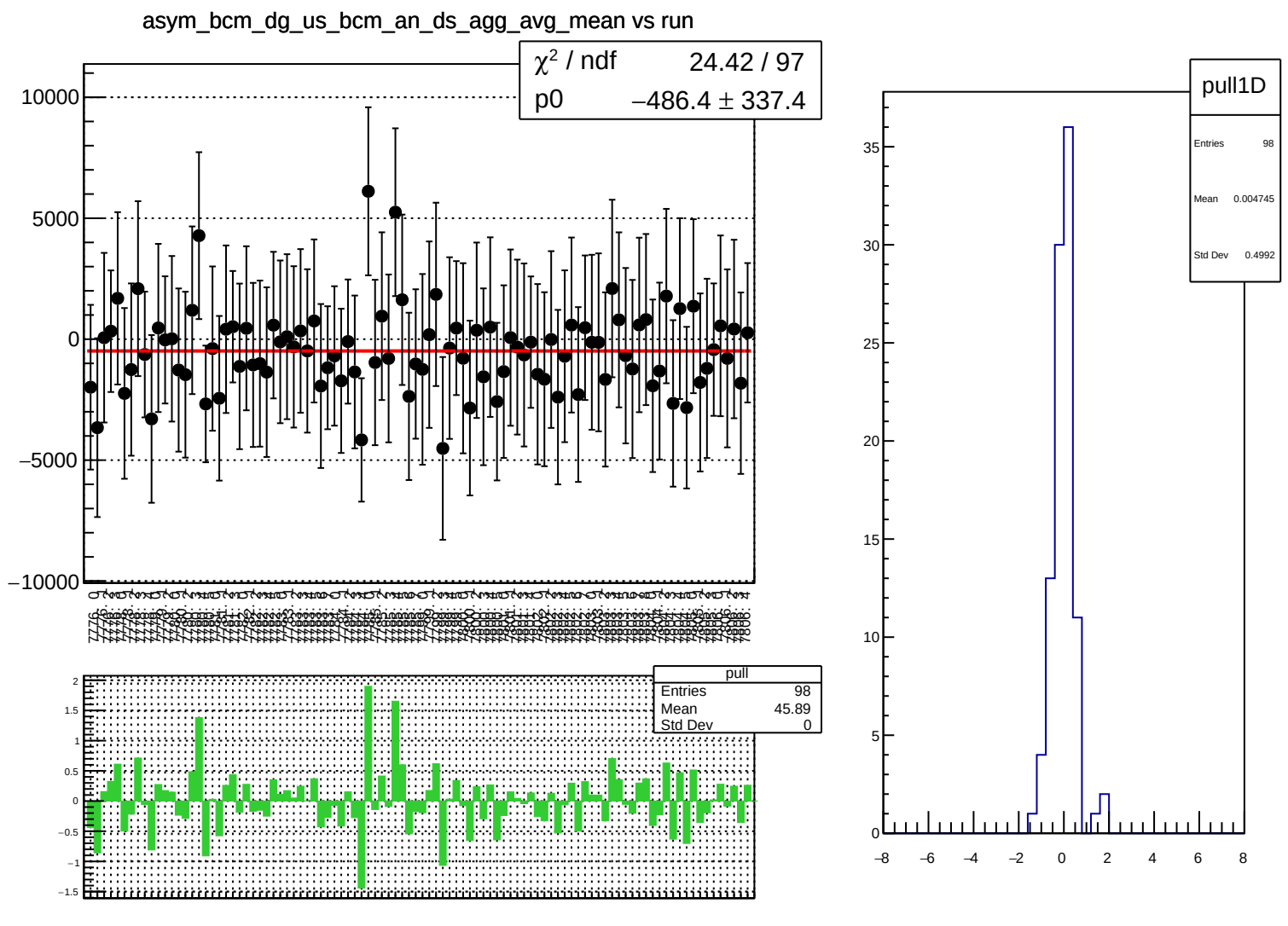

pull1D
Entries 98
Mean 0.004704
Std Dev 0.5023
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

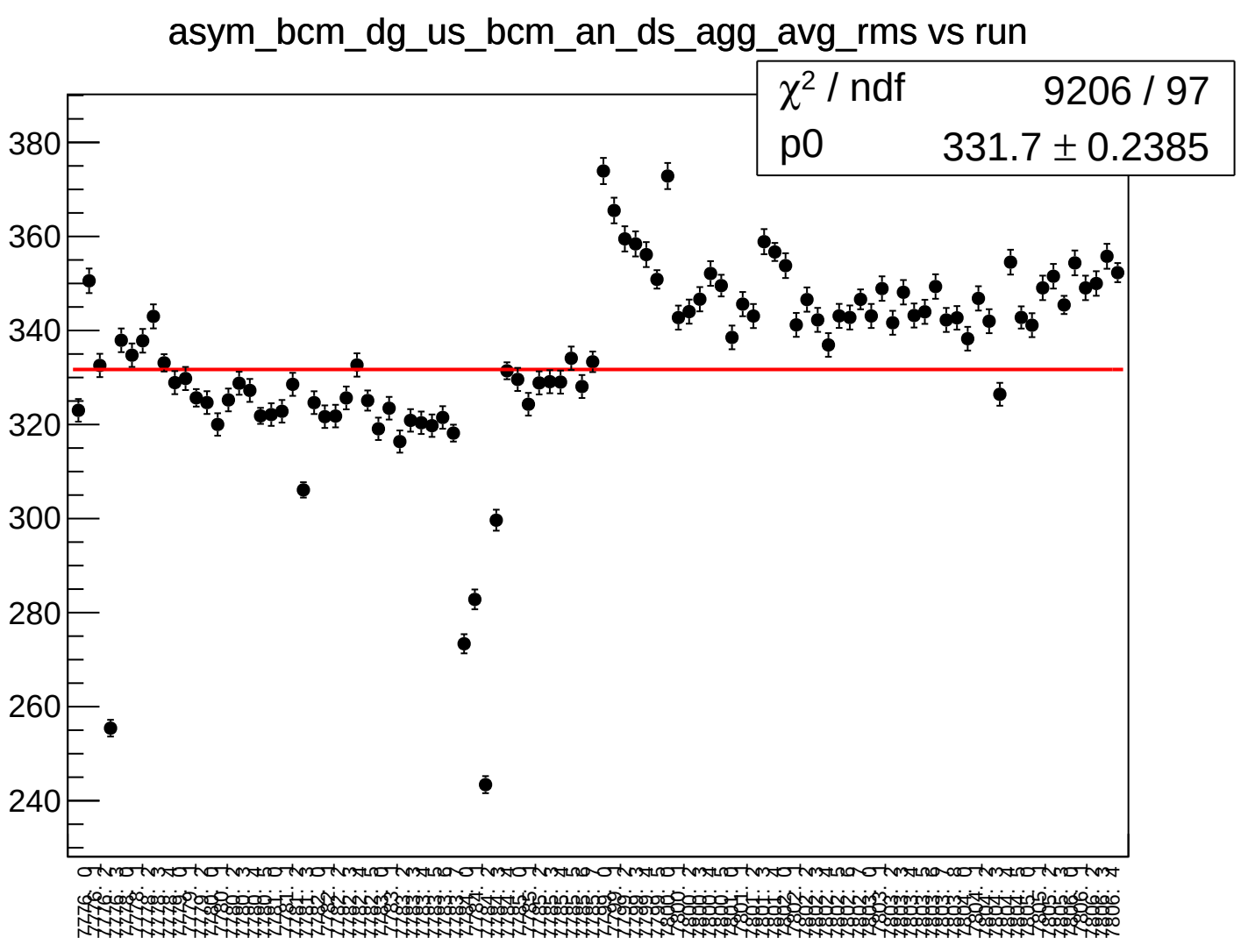

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 9161 / 97
p0 331.6 ± 0.2384
380
360
340
320
300
280
260
240

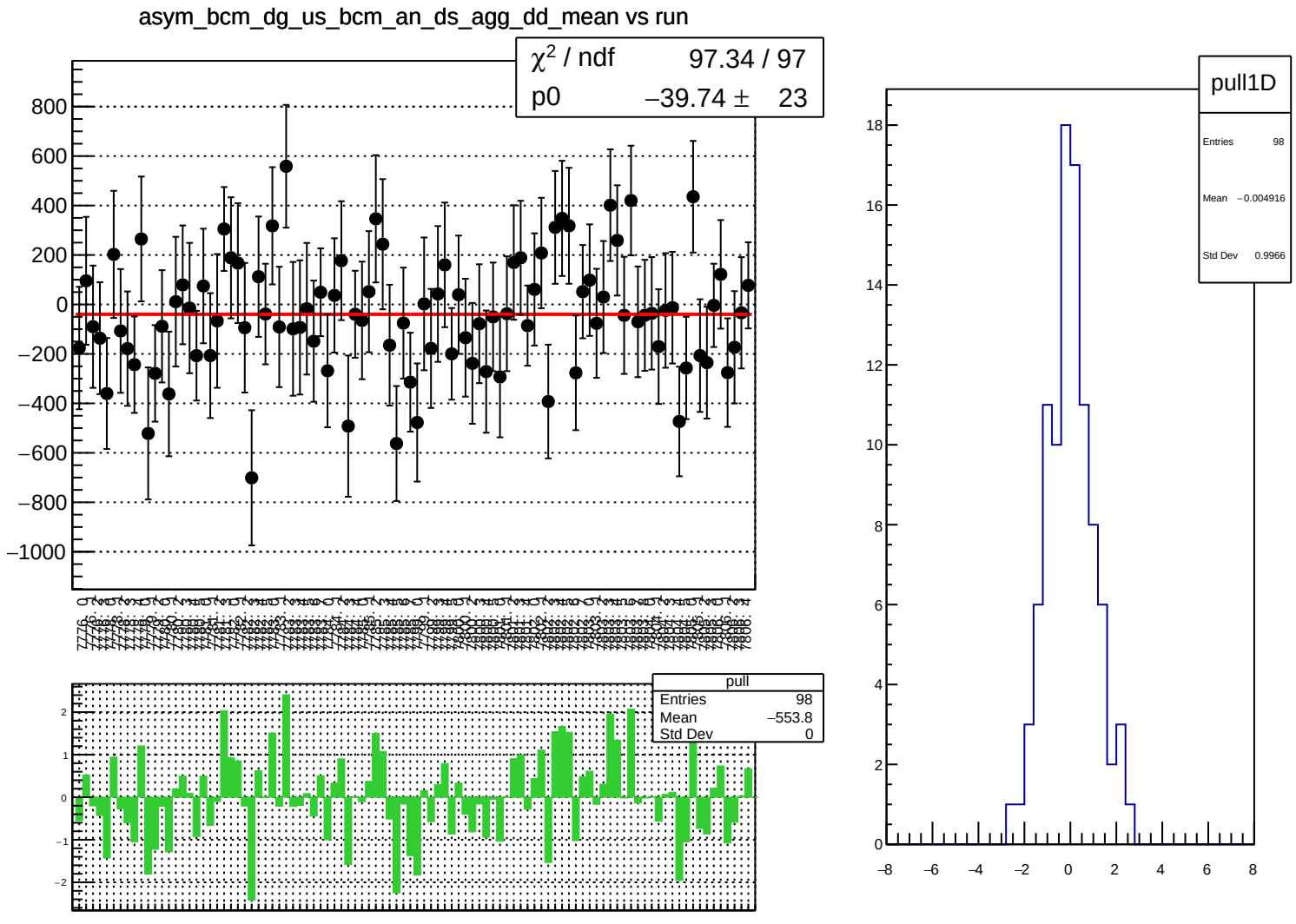

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 81.09 / 97
p0 −6.072 ± 11.02
400
200
0
−200
−400
pull
Entries 98
Mean 0.4136
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

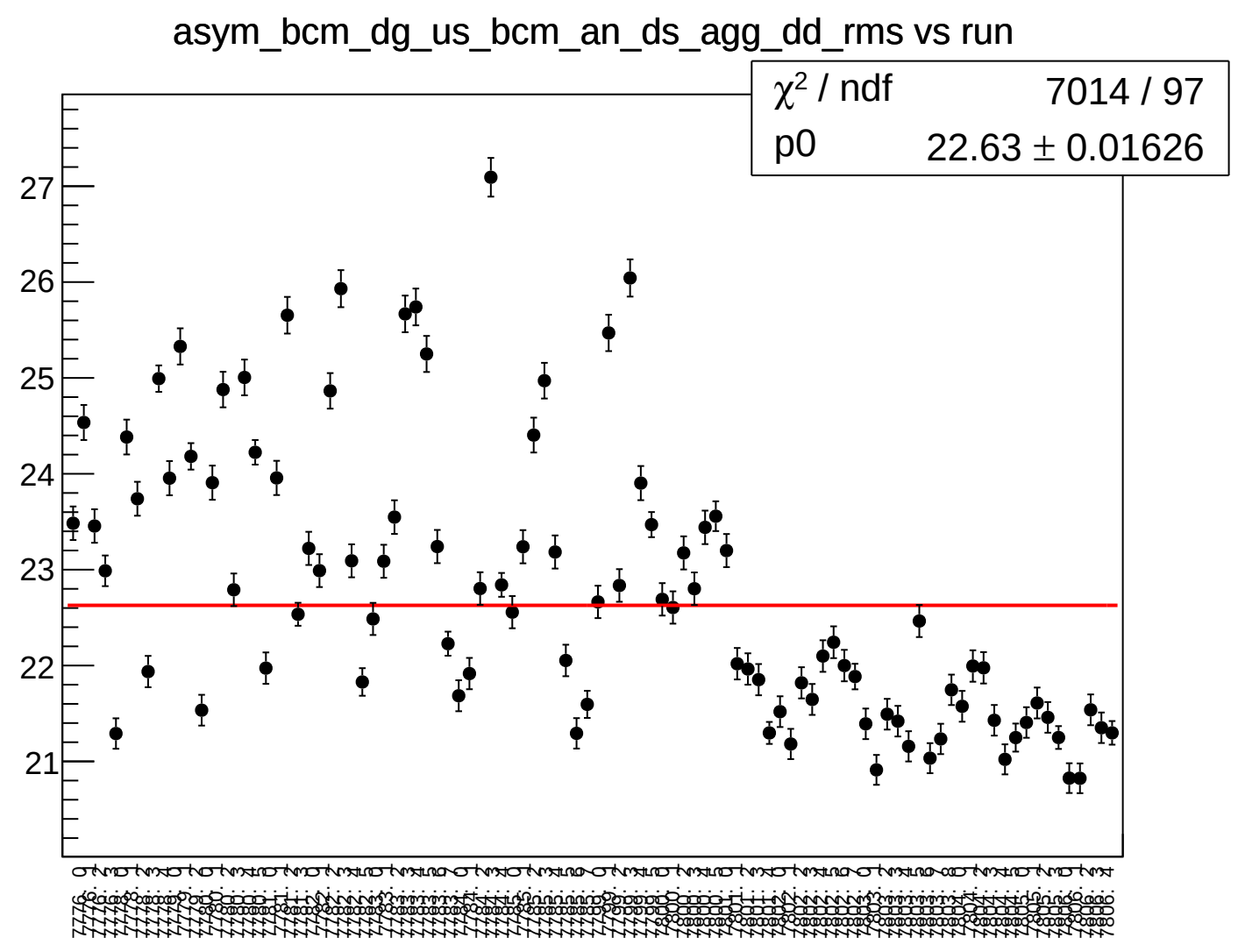

pull1D
Entries 98
Mean 0.02984
Std Dev 0.9092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

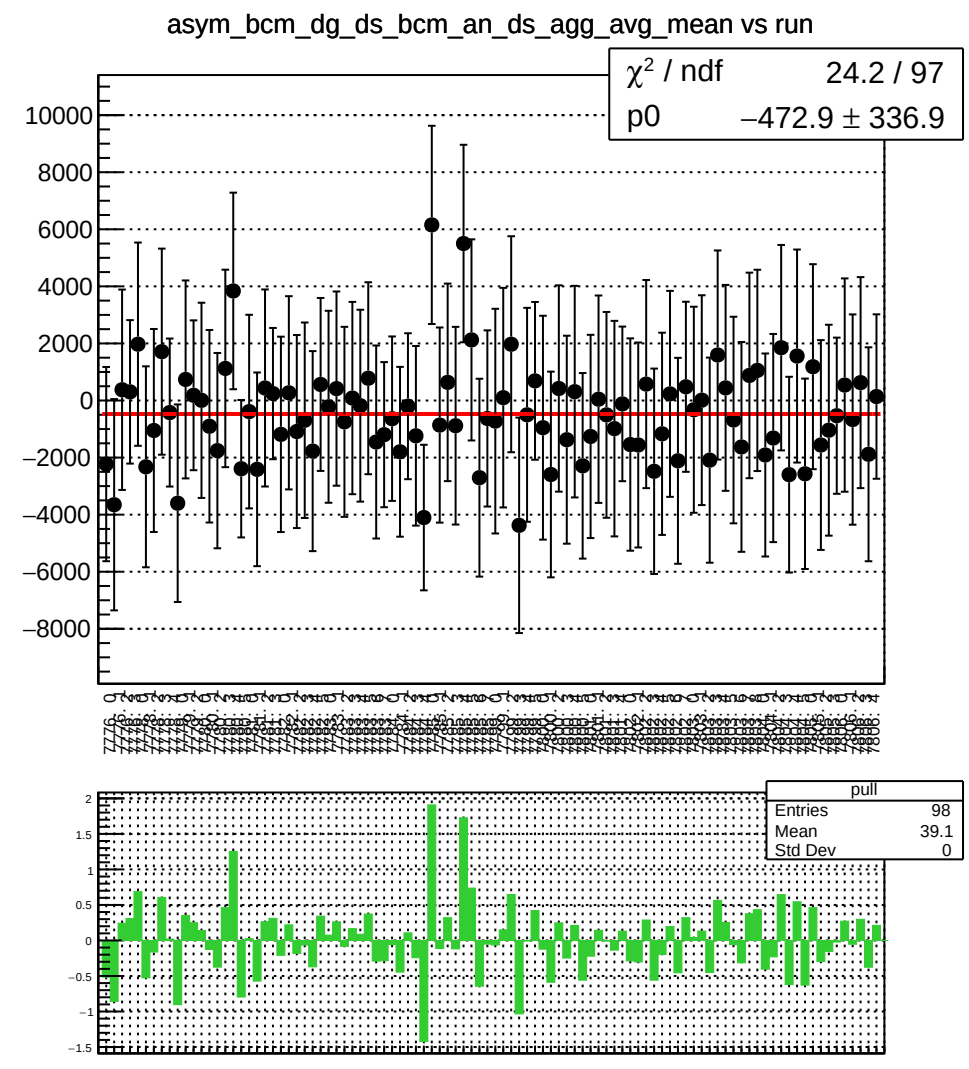

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.172e+04 / 97
p0 10.8 ± 0.007789
15
14
13
12
11
10
9

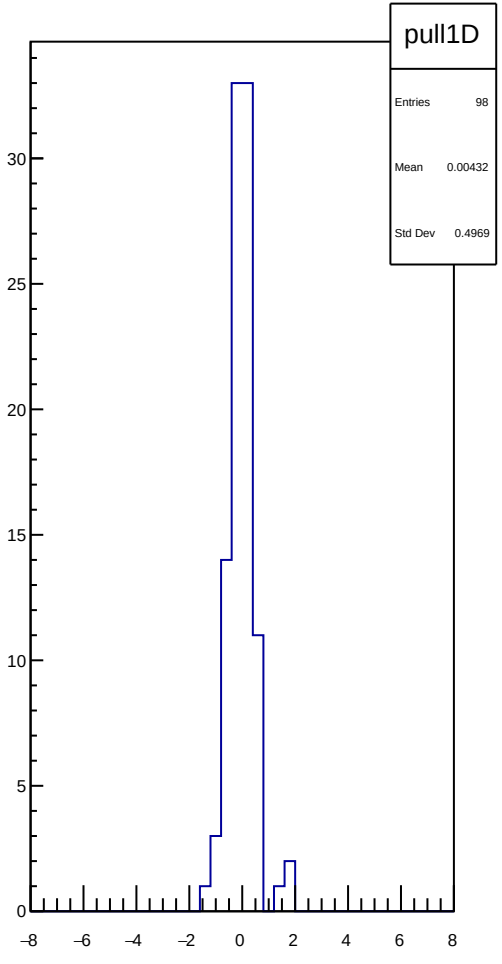

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.42 / 97
p0 −486.4 ± 337.4
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 45.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.004745
Std Dev 0.4992
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

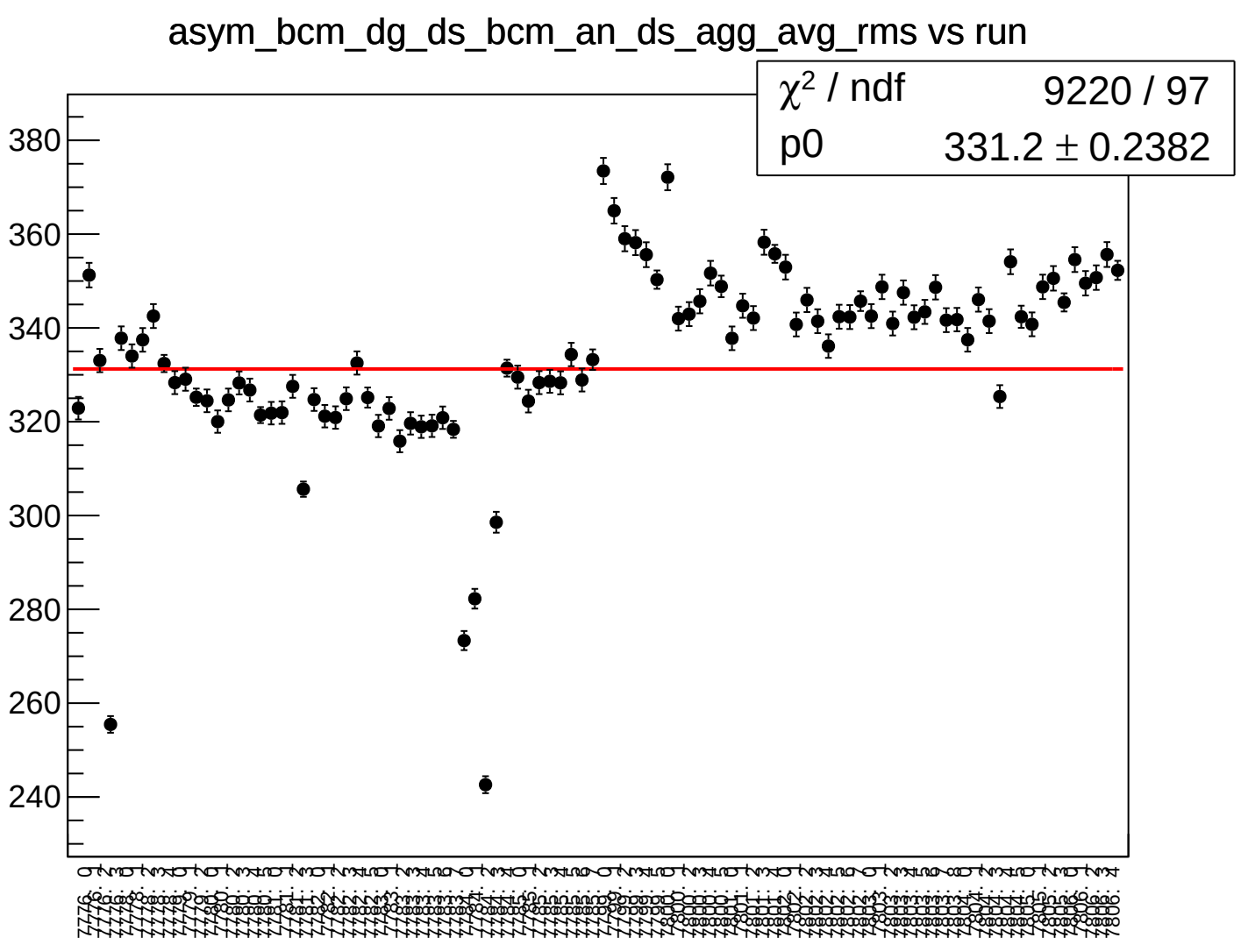

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9206 / 97
p0 331.7 ± 0.2385
380
360
340
320
300
280
260
240

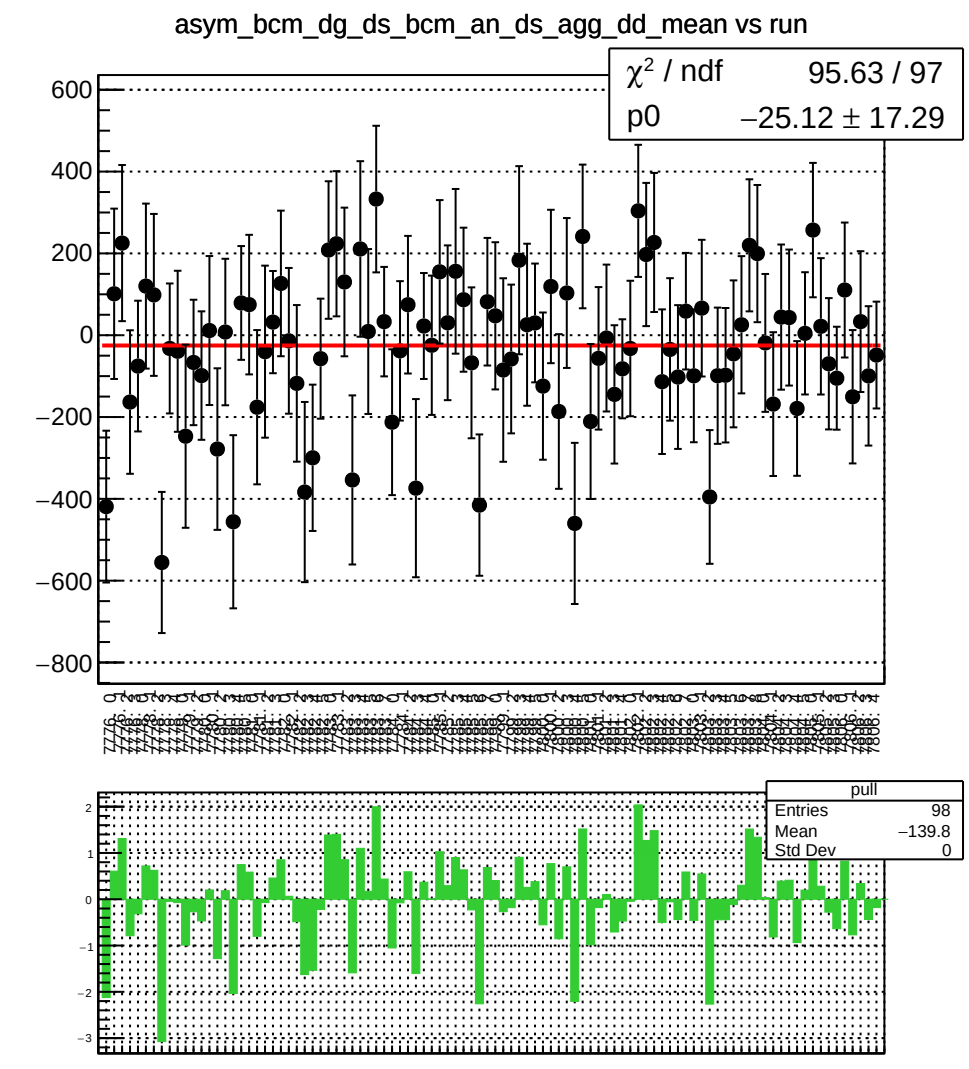

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 97.34 / 97
p0 −39.74 ± 23
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 98
Mean −553.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.004916
Std Dev 0.9966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

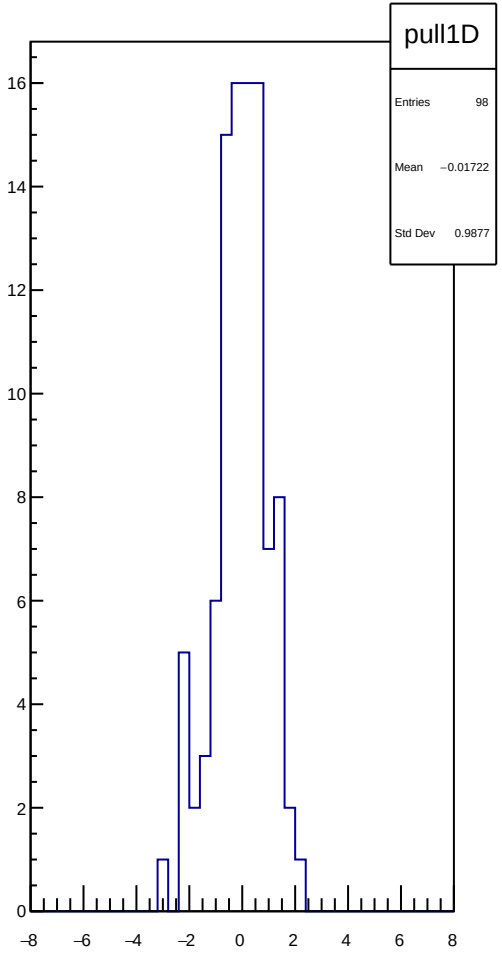

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 7014 / 97
p0 22.63 ± 0.01626
27
26
25
24
23
22
21

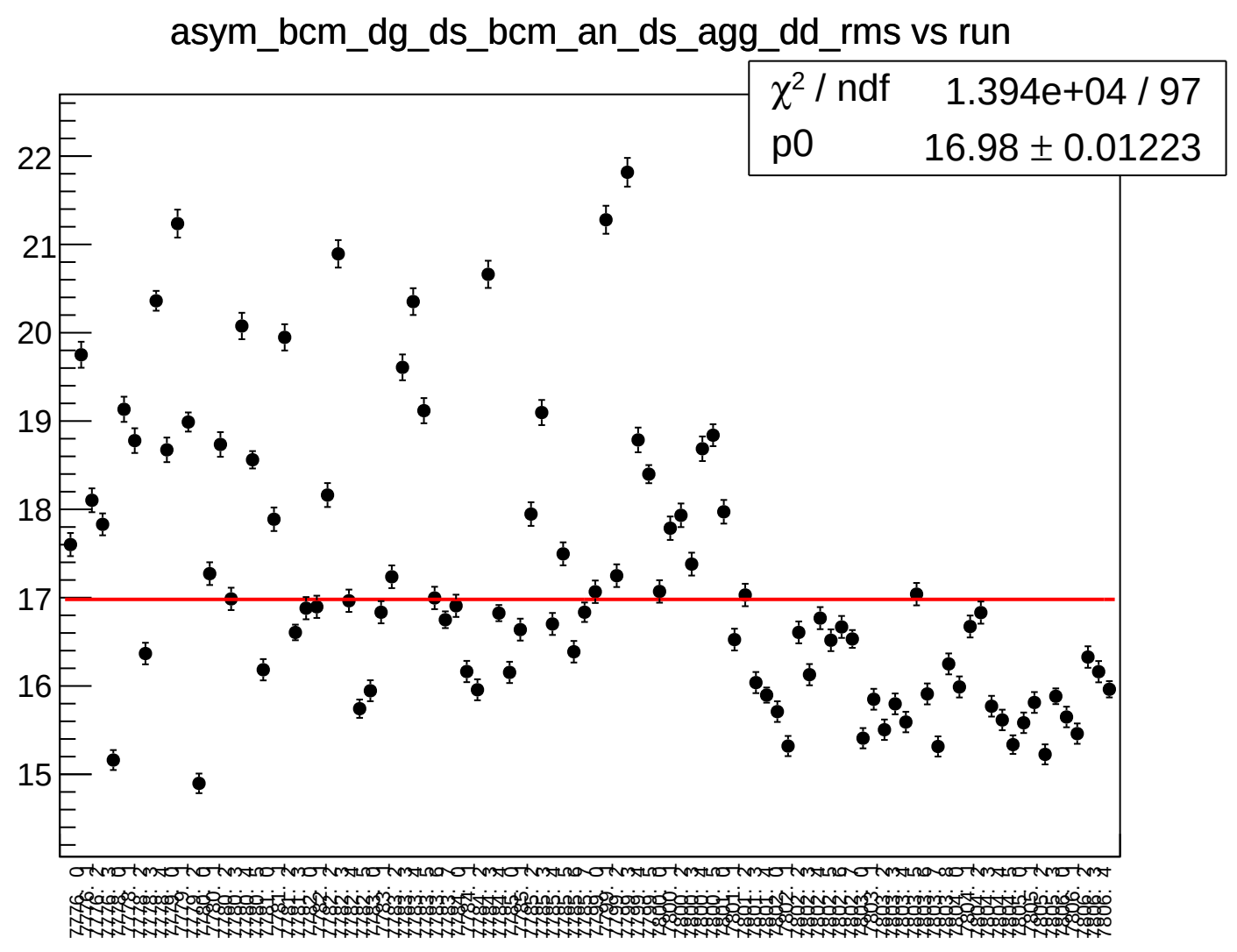

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.2 / 97
p0 −472.9 ± 336.9
pull
Entries 98
Mean 39.1
Std Dev 0

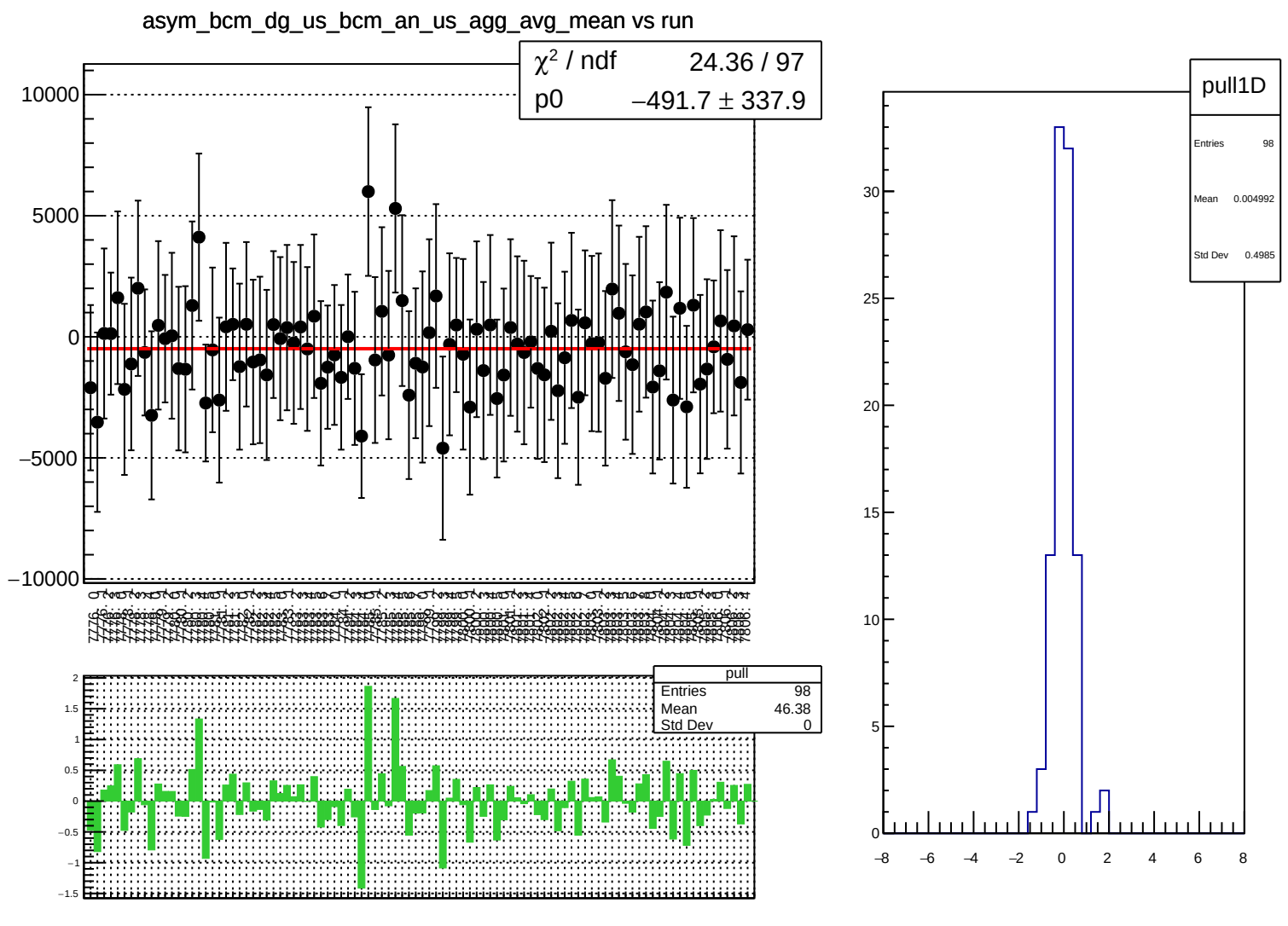

pull1D
Entries 98
Mean 0.00432
Std Dev 0.4969

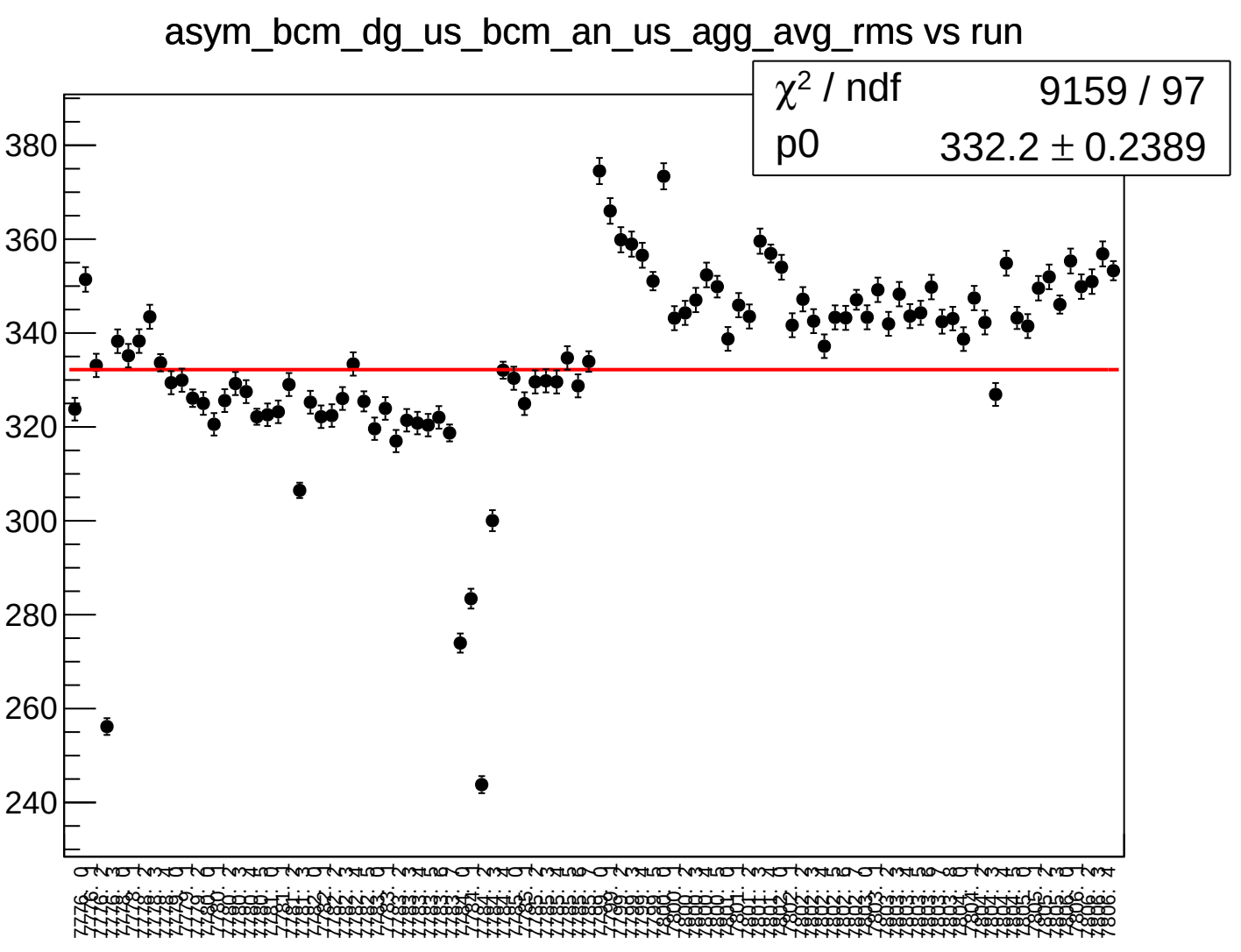

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9220 / 97
p0 331.2 ± 0.2382
380
360
340
320
300
280
260
240

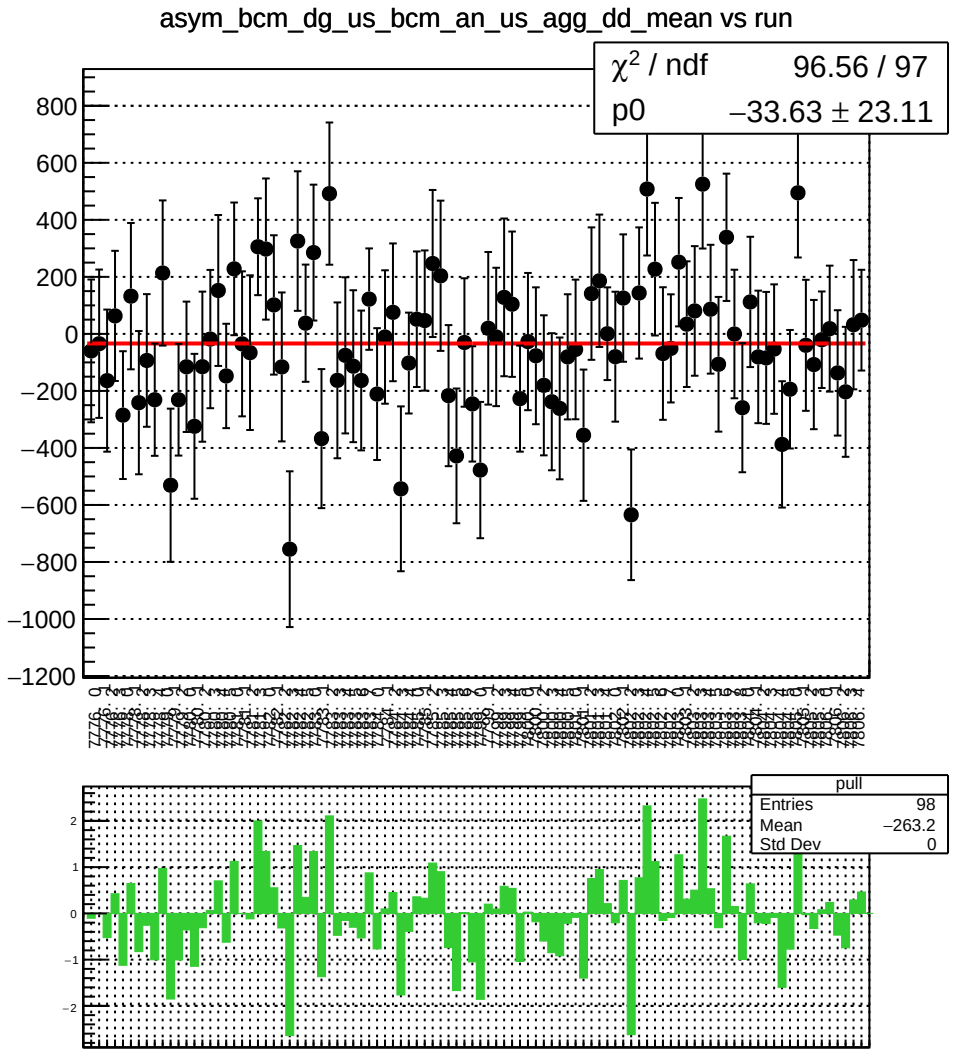

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 95.63 / 97
p0 −25.12 ± 17.29
pull
Entries 98
Mean −139.8
Std Dev 0

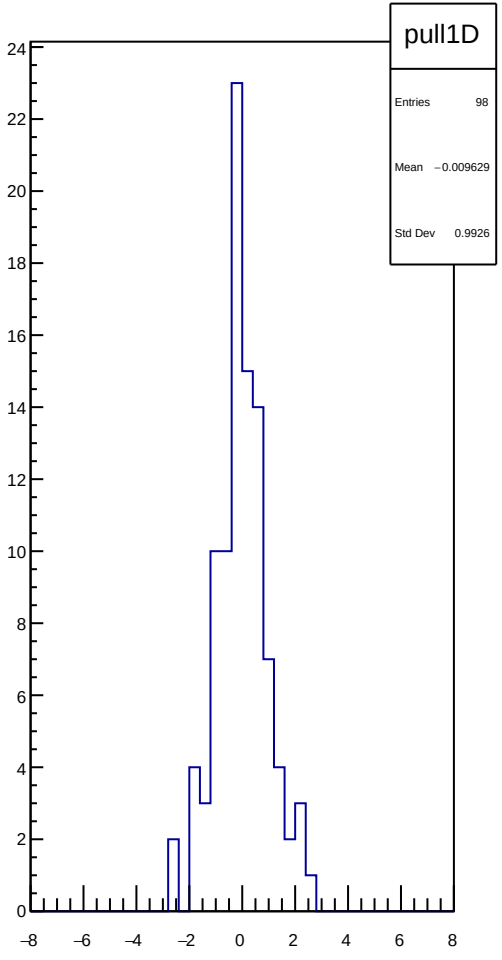

pull1D
Entries 98
Mean −0.01722
Std Dev 0.9877

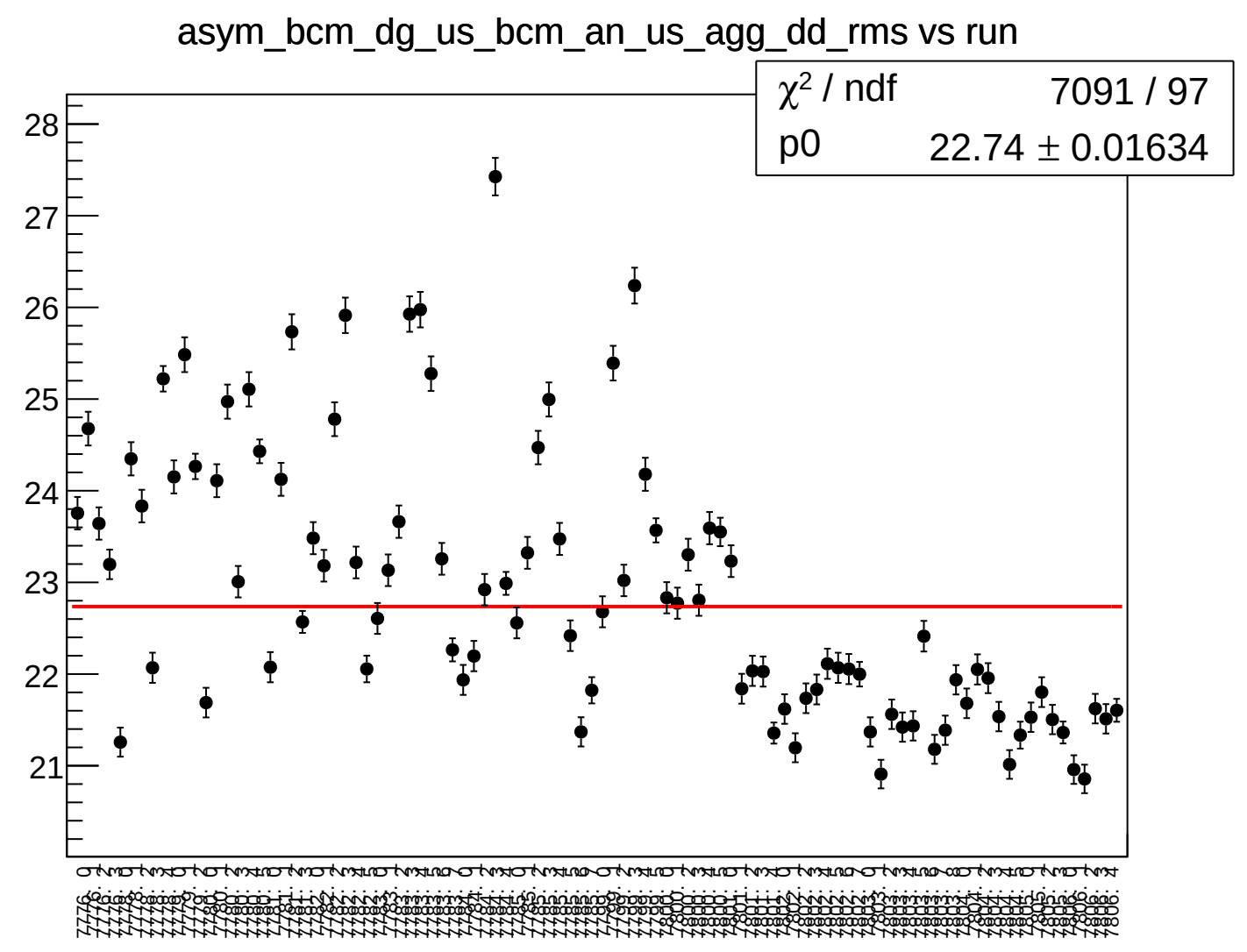

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.394e+04 / 97
p0 16.98 ± 0.01223
22
21
20
19
18
17
16
15

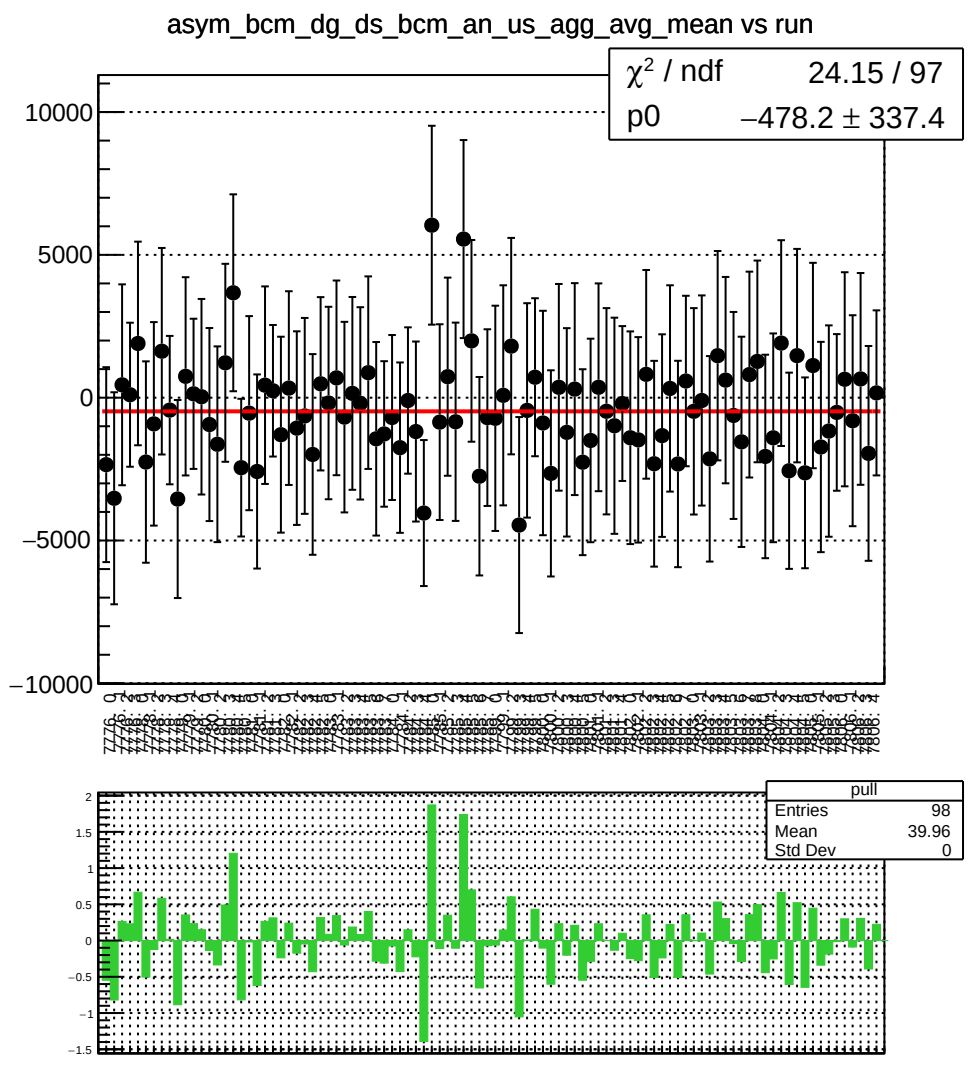

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.36 / 97
p0 −491.7 ± 337.9
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 46.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.004992
Std Dev 0.4985
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

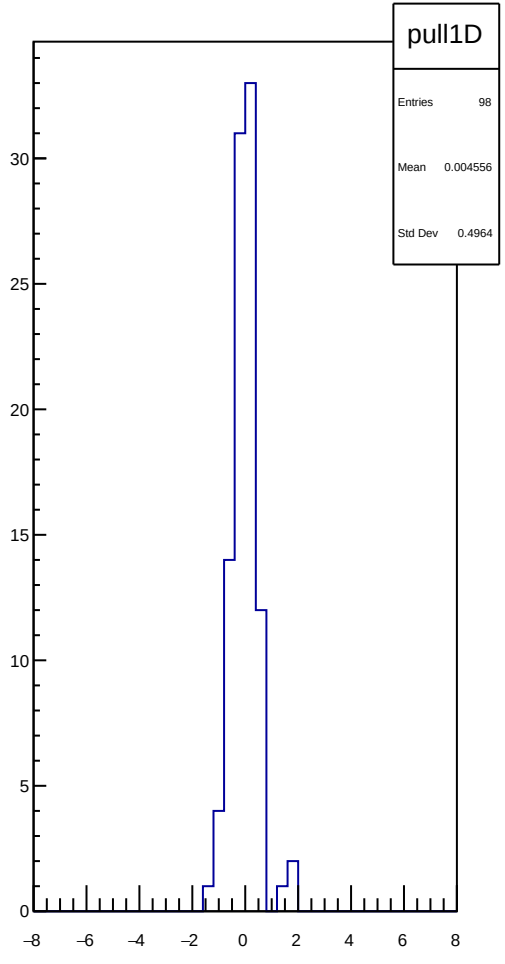

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9159 / 97
p0 332.2 ± 0.2389
380
360
340
320
300
280
260
240

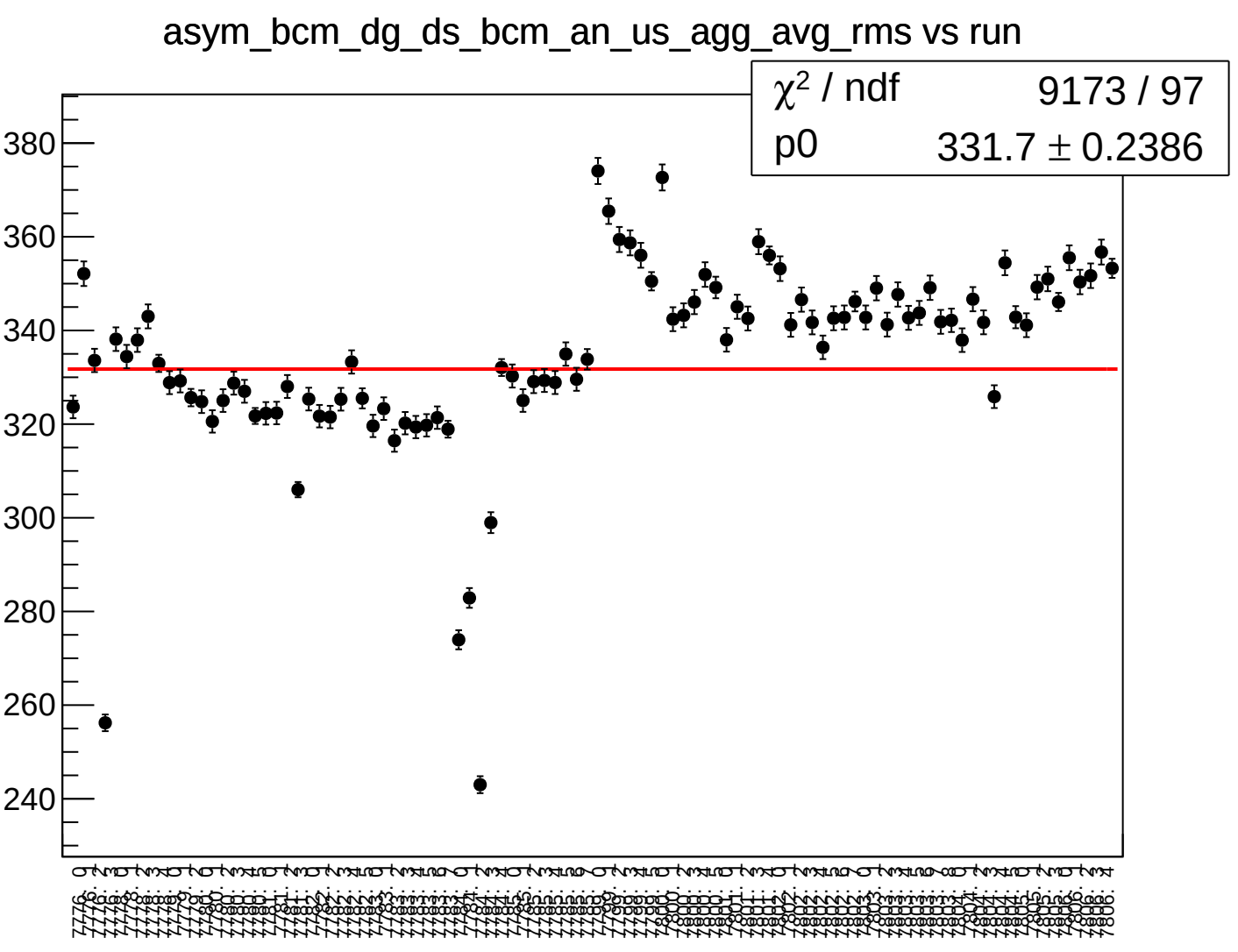

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 96.56 / 97
p0 −33.63 ± 23.11
pull
Entries 98
Mean −263.2
Std Dev 0

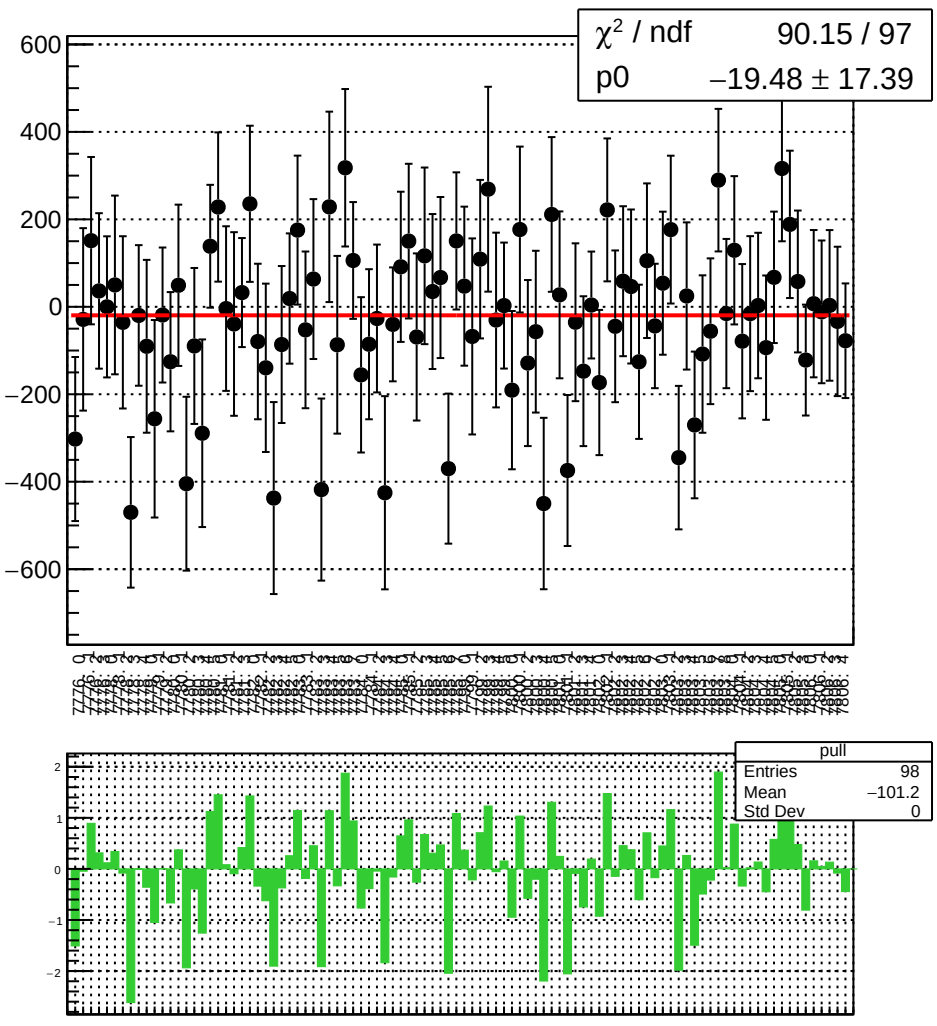

pull1D
Entries 98
Mean −0.009629
Std Dev 0.9926

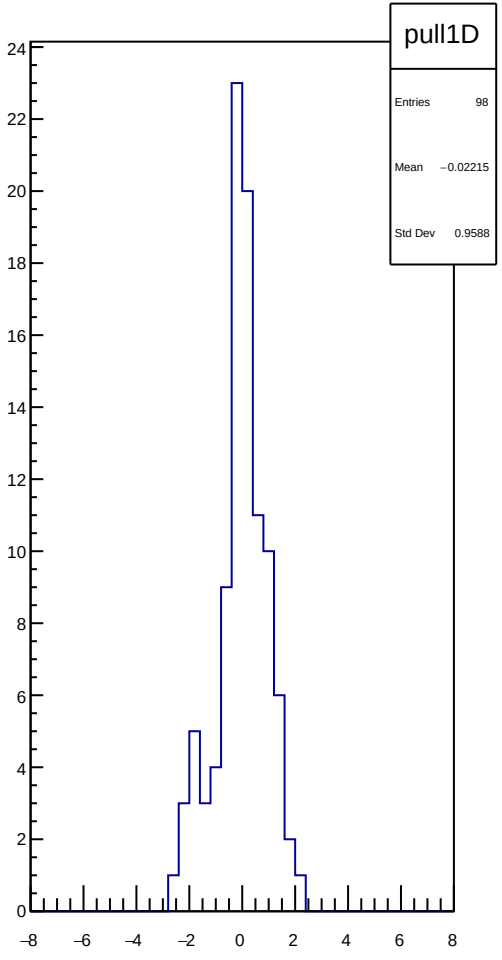

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 7091 / 97
p0 22.74 ± 0.01634
28
27
26
25
24
23
22
21

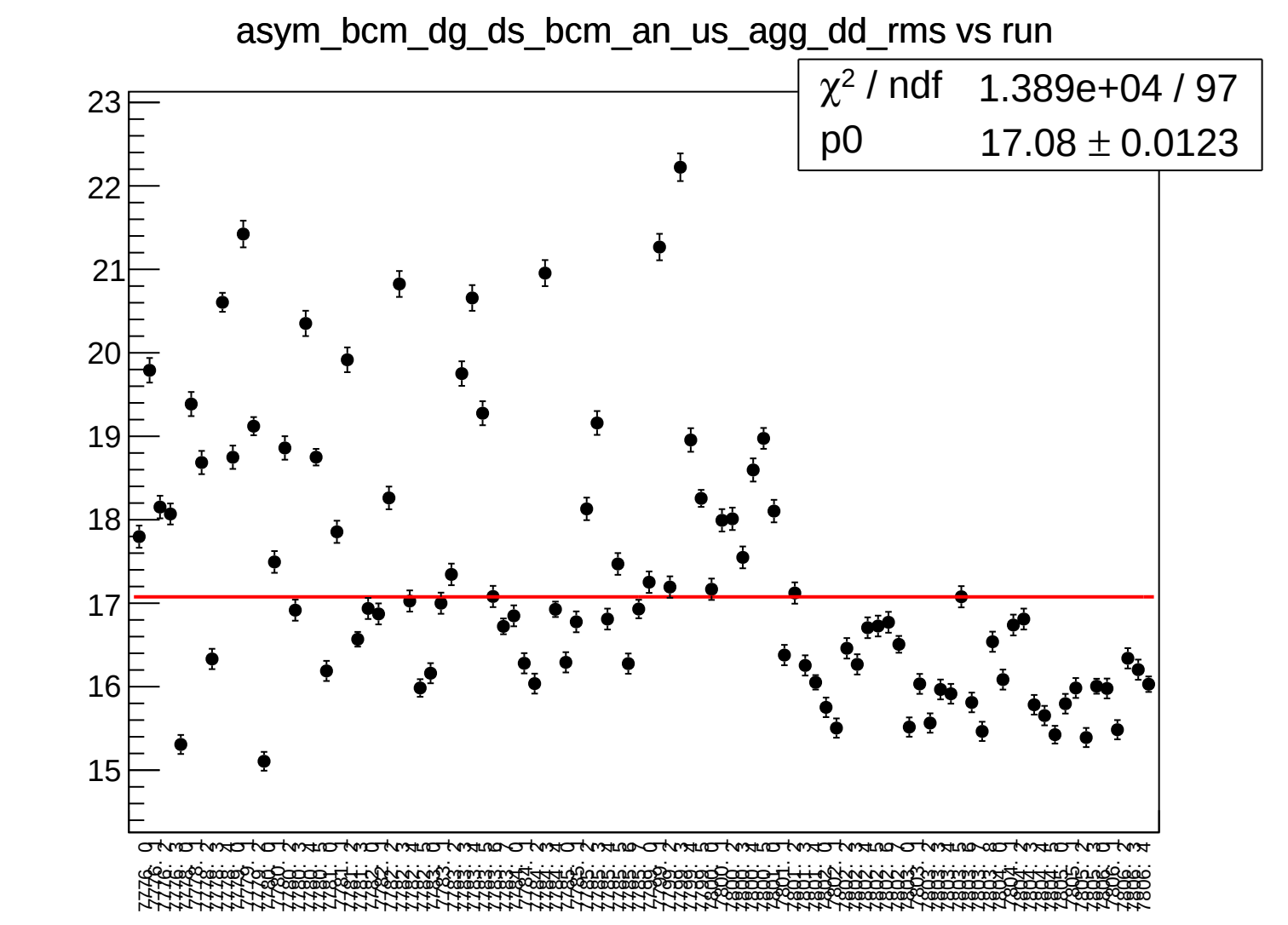

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.15 / 97
p0 −478.2 ± 337.4
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 39.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

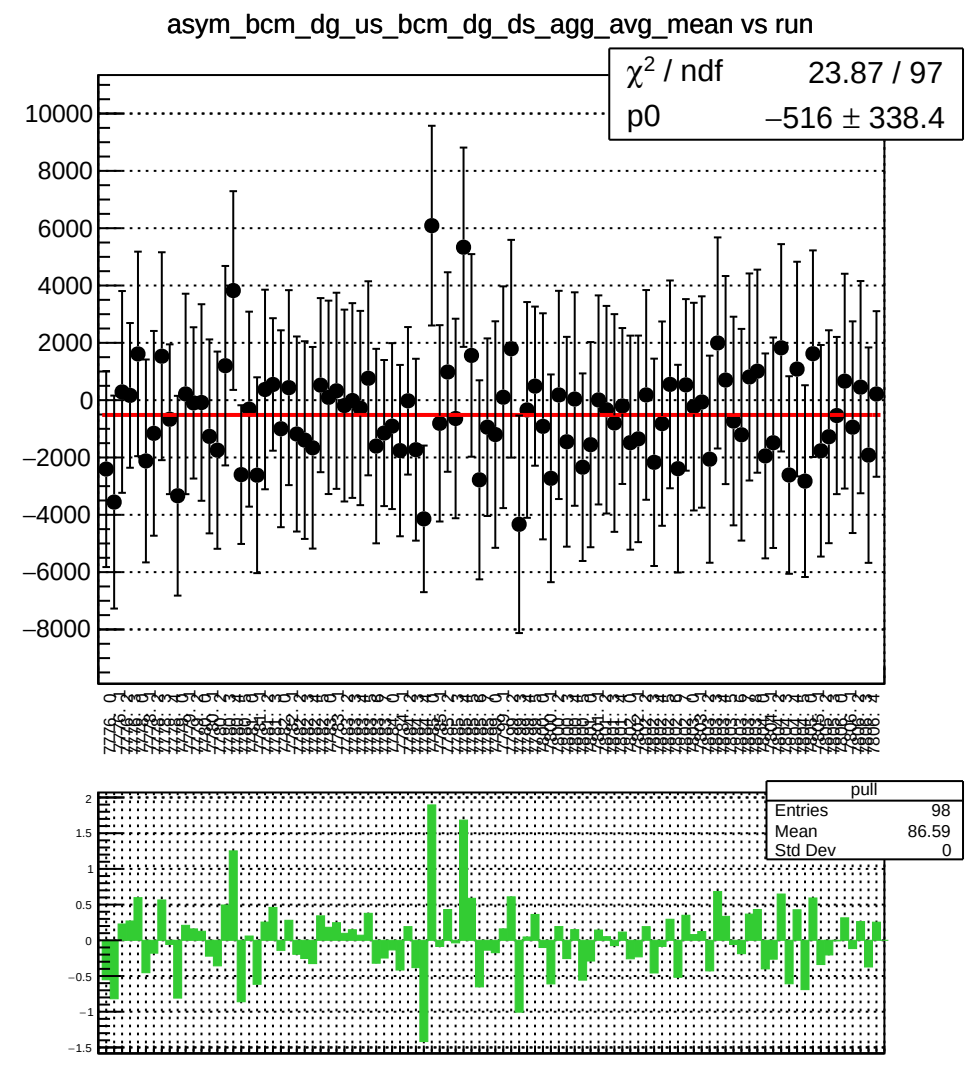

pull1D
Entries 98
Mean 0.004556
Std Dev 0.4964
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

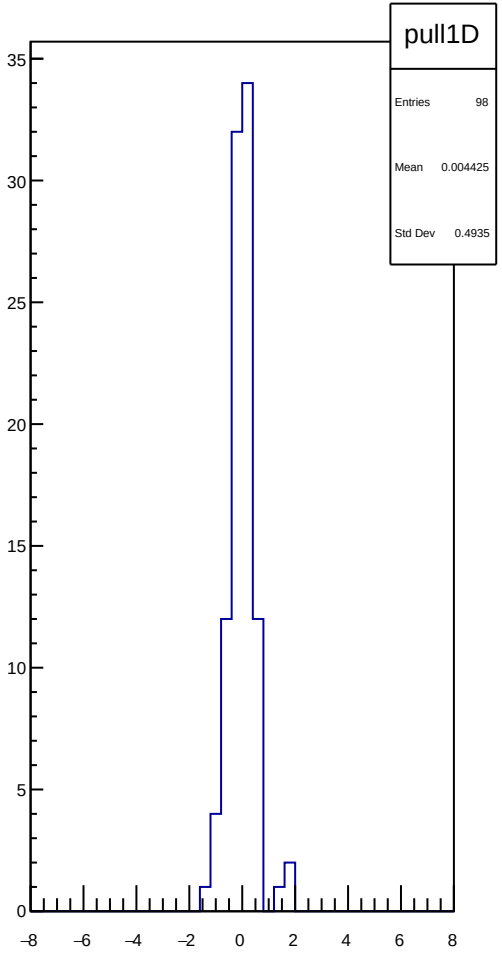

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9173 / 97
p0 331.7 ± 0.2386
380
360
340
320
300
280
260
240

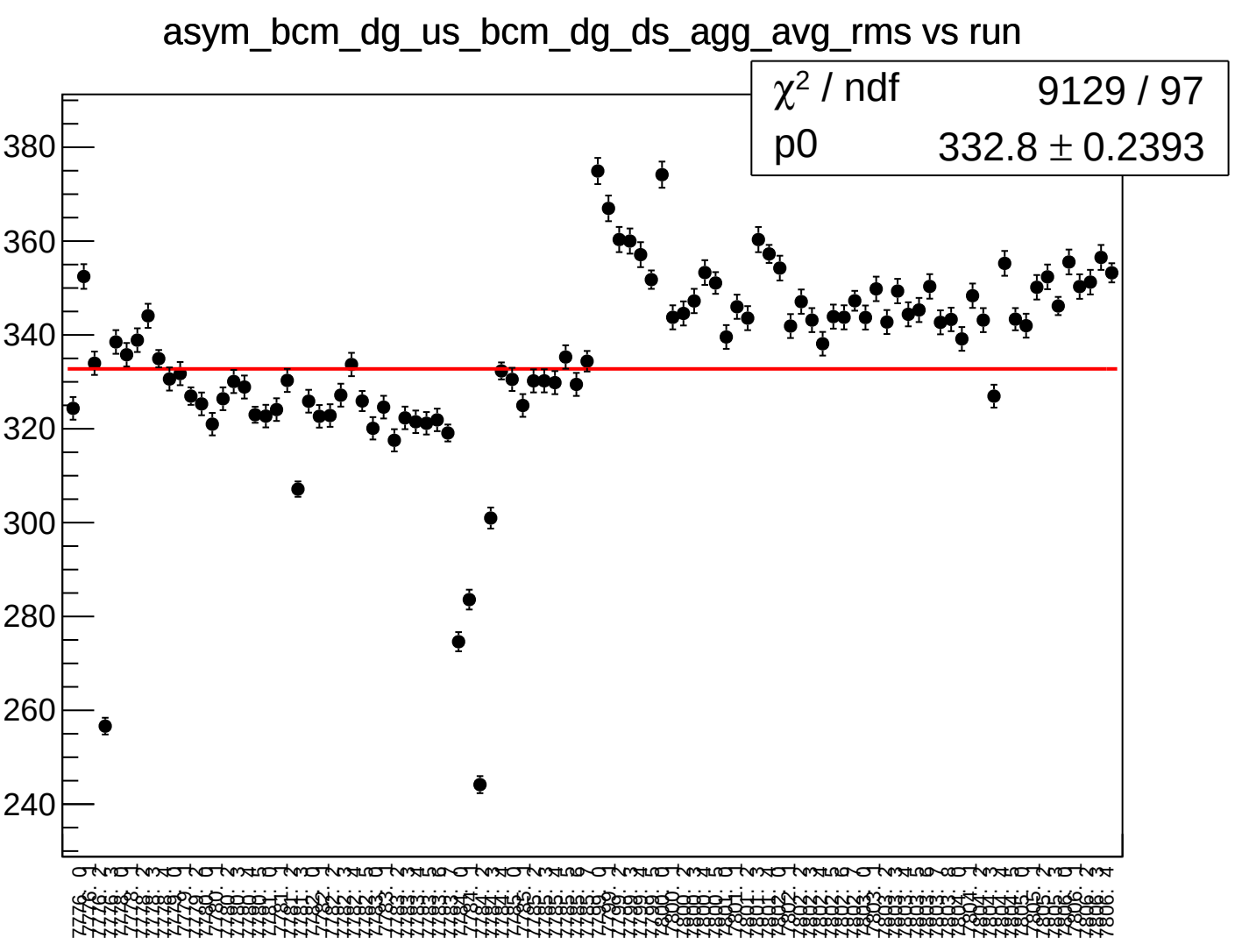

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 90.15 / 97
p0 −19.48 ± 17.39
pull
Entries 98
Mean −101.2
Std Dev 0

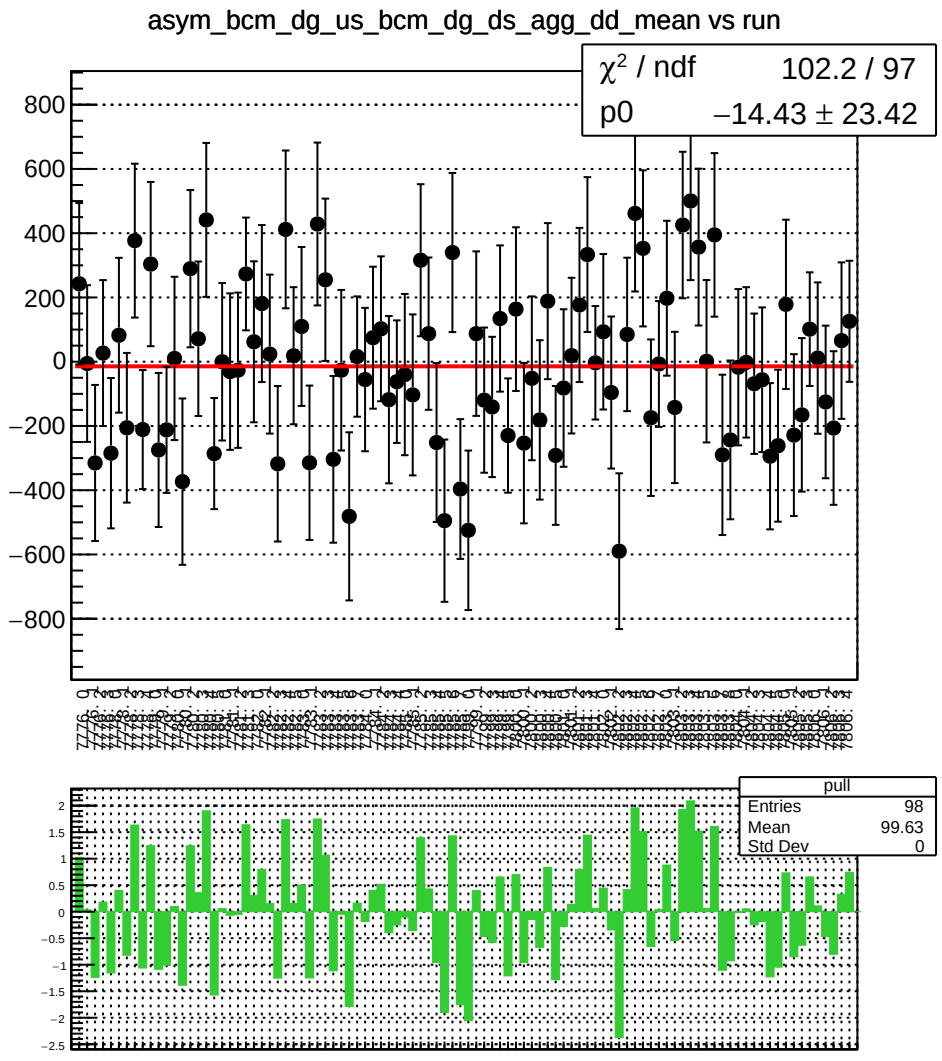

pull1D
Entries 98
Mean −0.02215
Std Dev 0.9588

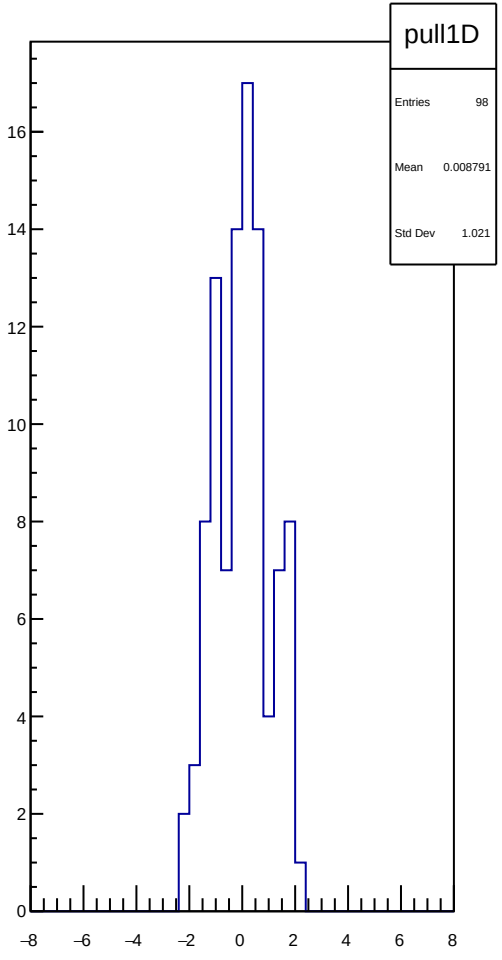

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.389e+04 / 97
p0 17.08 ± 0.0123
23
22
21
20
19
18
17
16
15

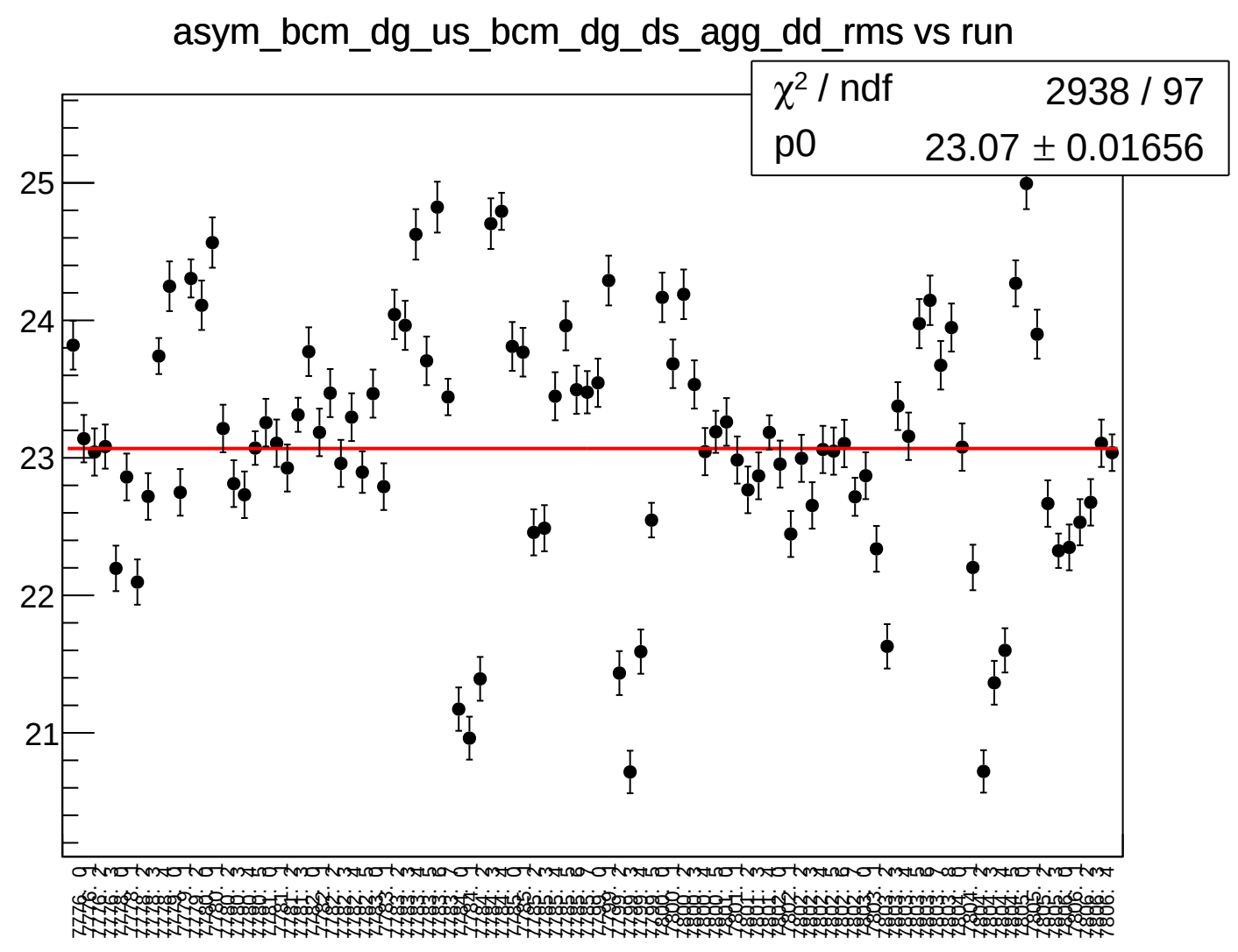

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 23.87 / 97
p0 −516 ± 338.4
pull
Entries 98
Mean 86.59
Std Dev 0

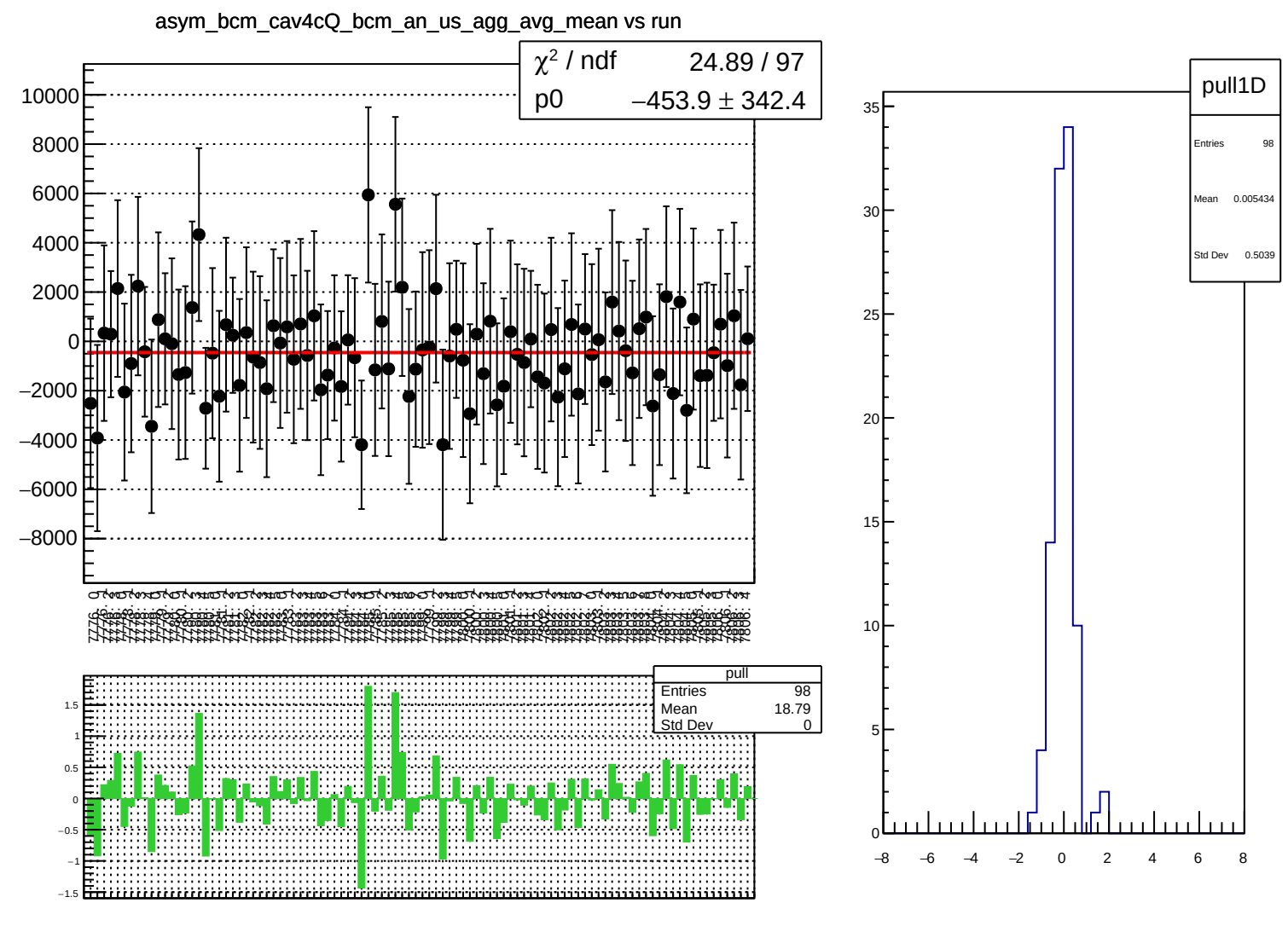

pull1D
Entries 98
Mean 0.004425
Std Dev 0.4935

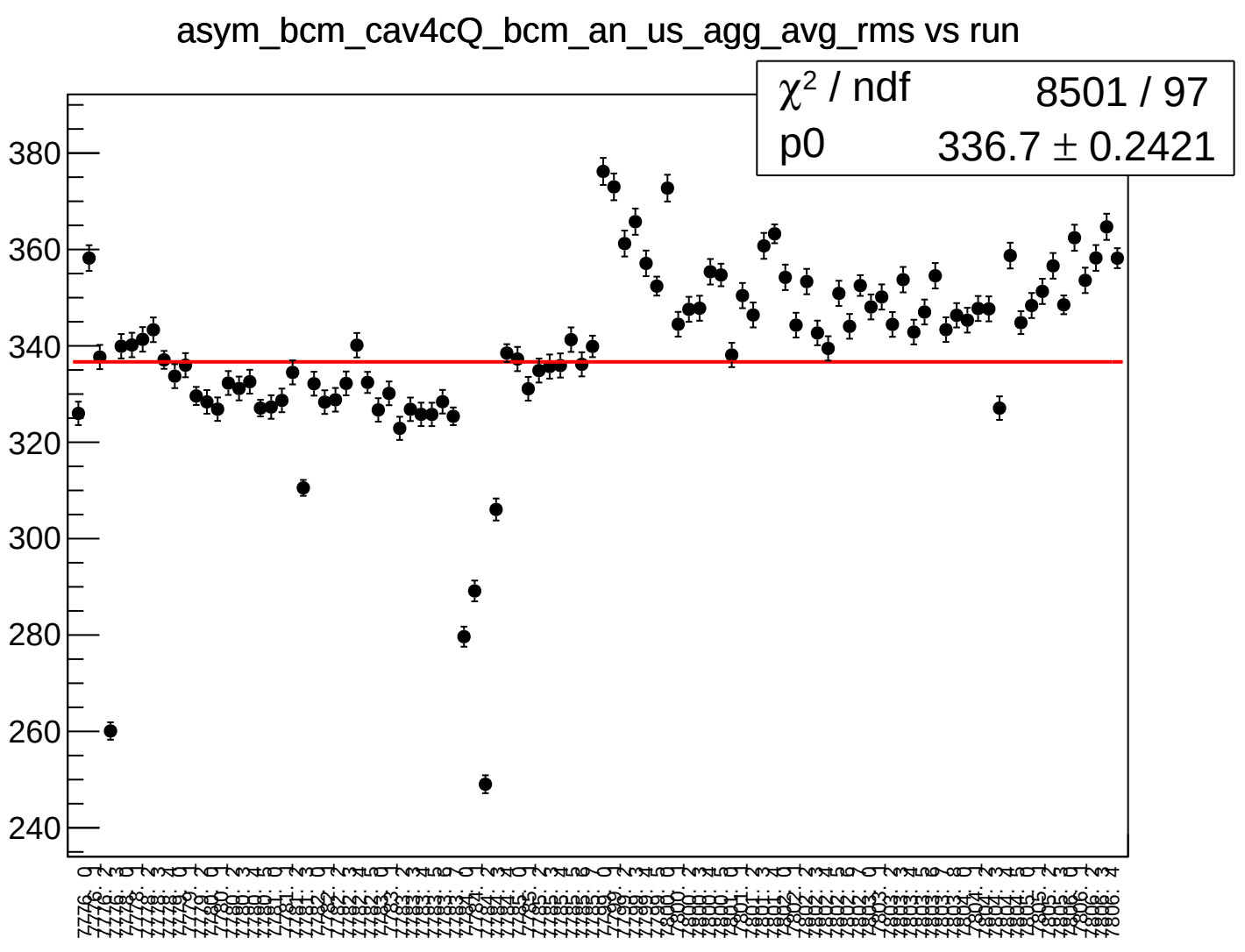

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9129 / 97
p0 332.8 ± 0.2393
380
360
340
320
300
280
260
240

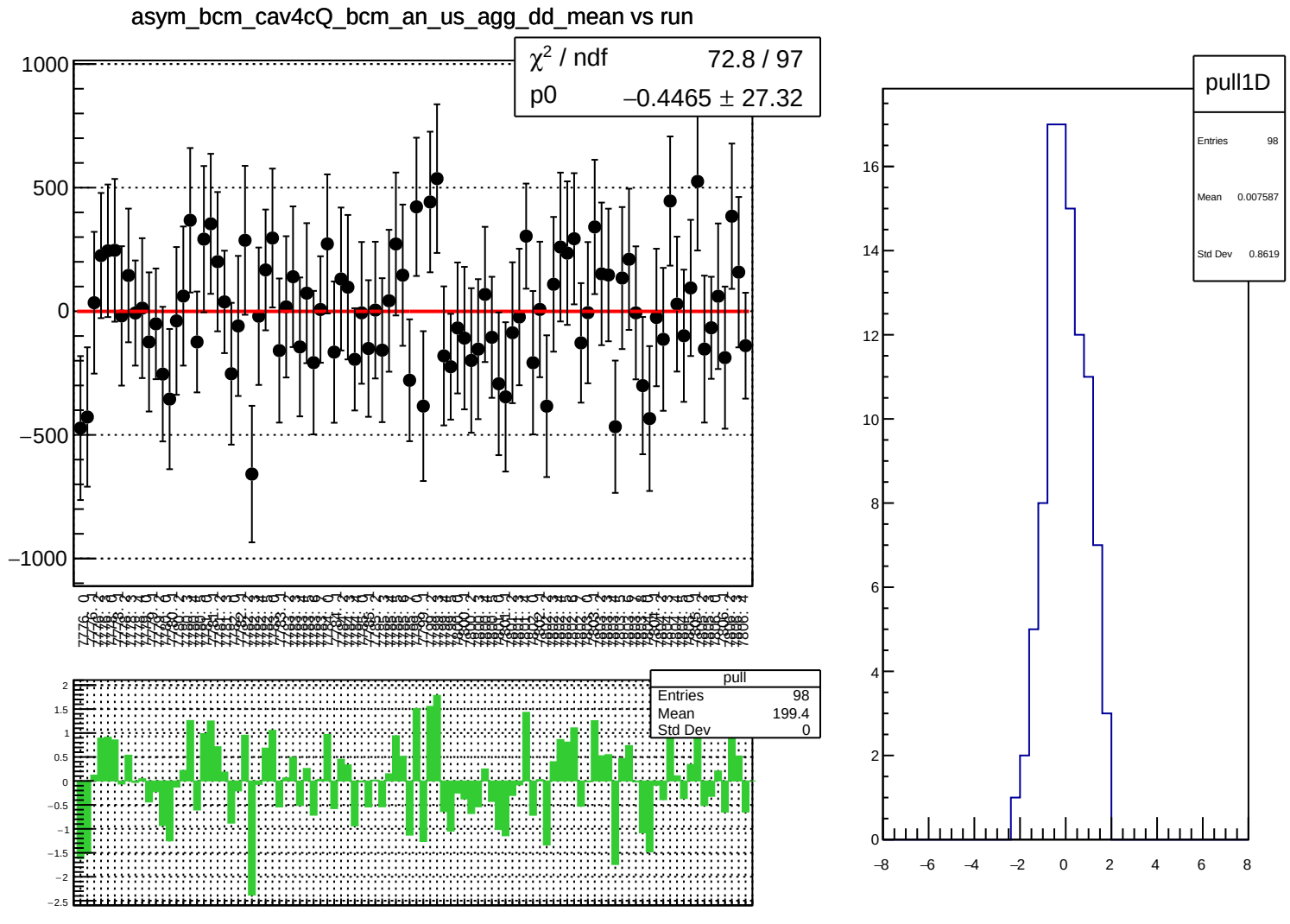

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 102.2 / 97
p0 −14.43 ± 23.42
pull
Entries 98
Mean 99.63
Std Dev 0

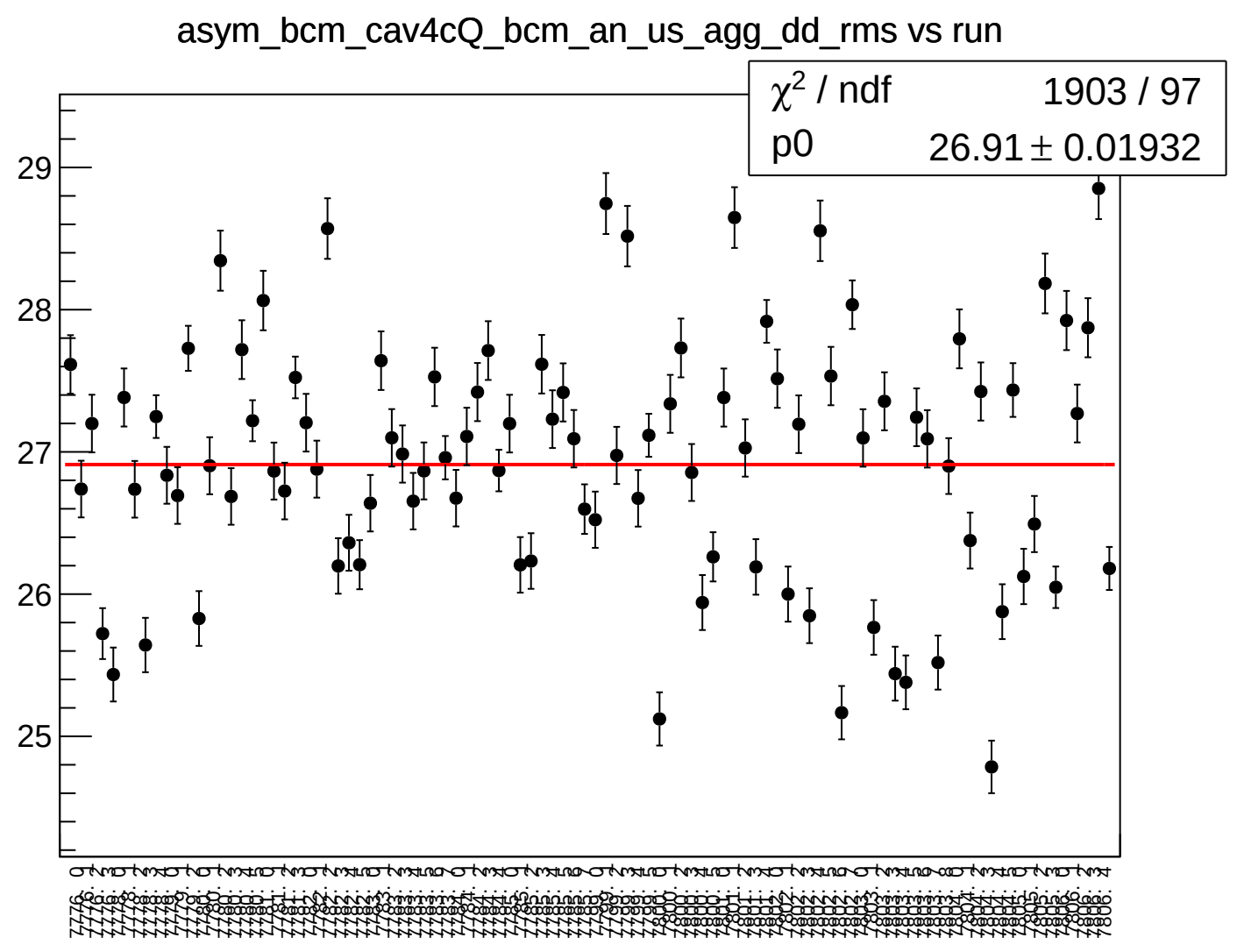

pull1D
Entries 98
Mean 0.008791
Std Dev 1.021

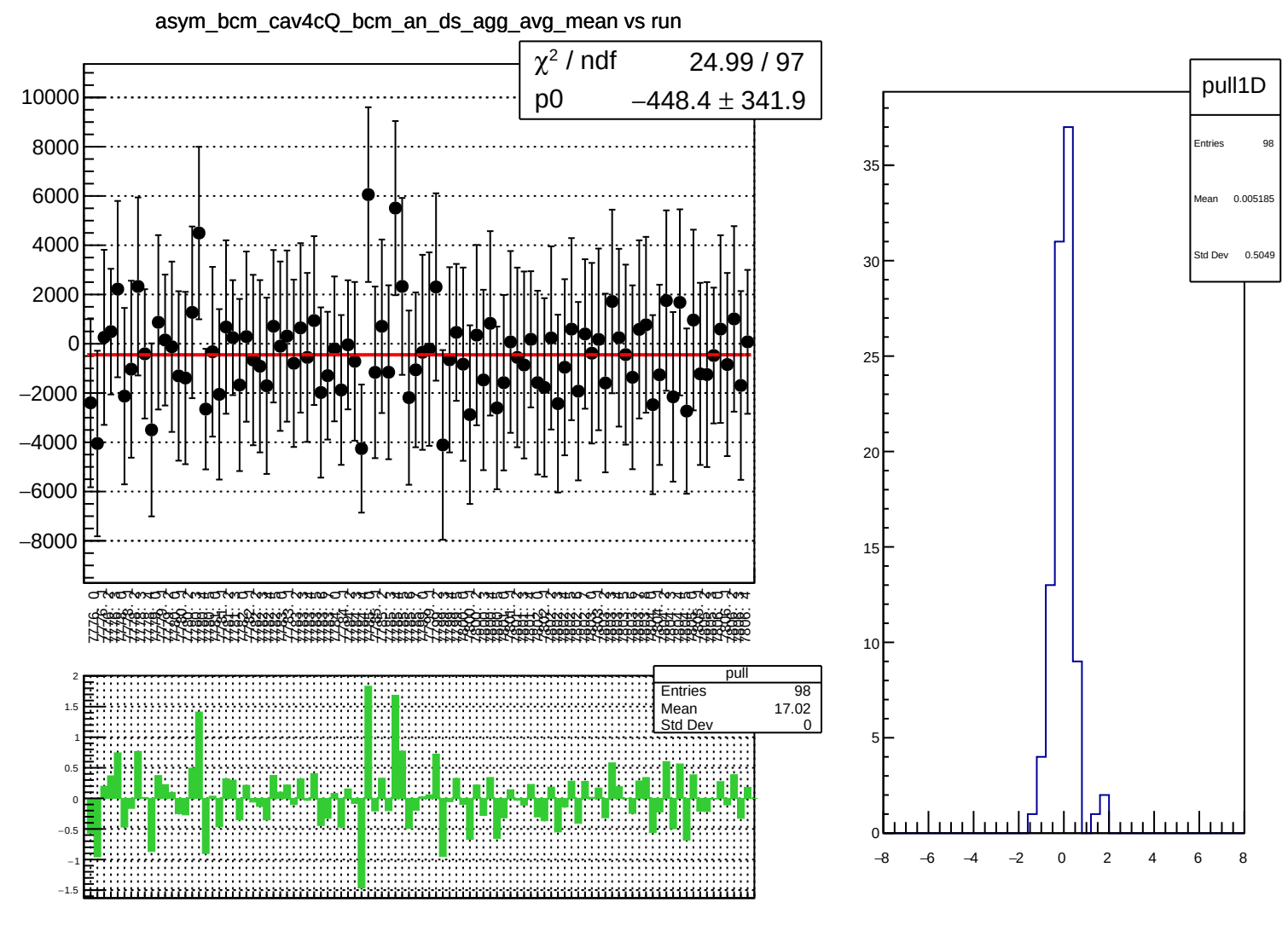

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2938 / 97
p0 23.07 ± 0.01656
25
24
23
22
21

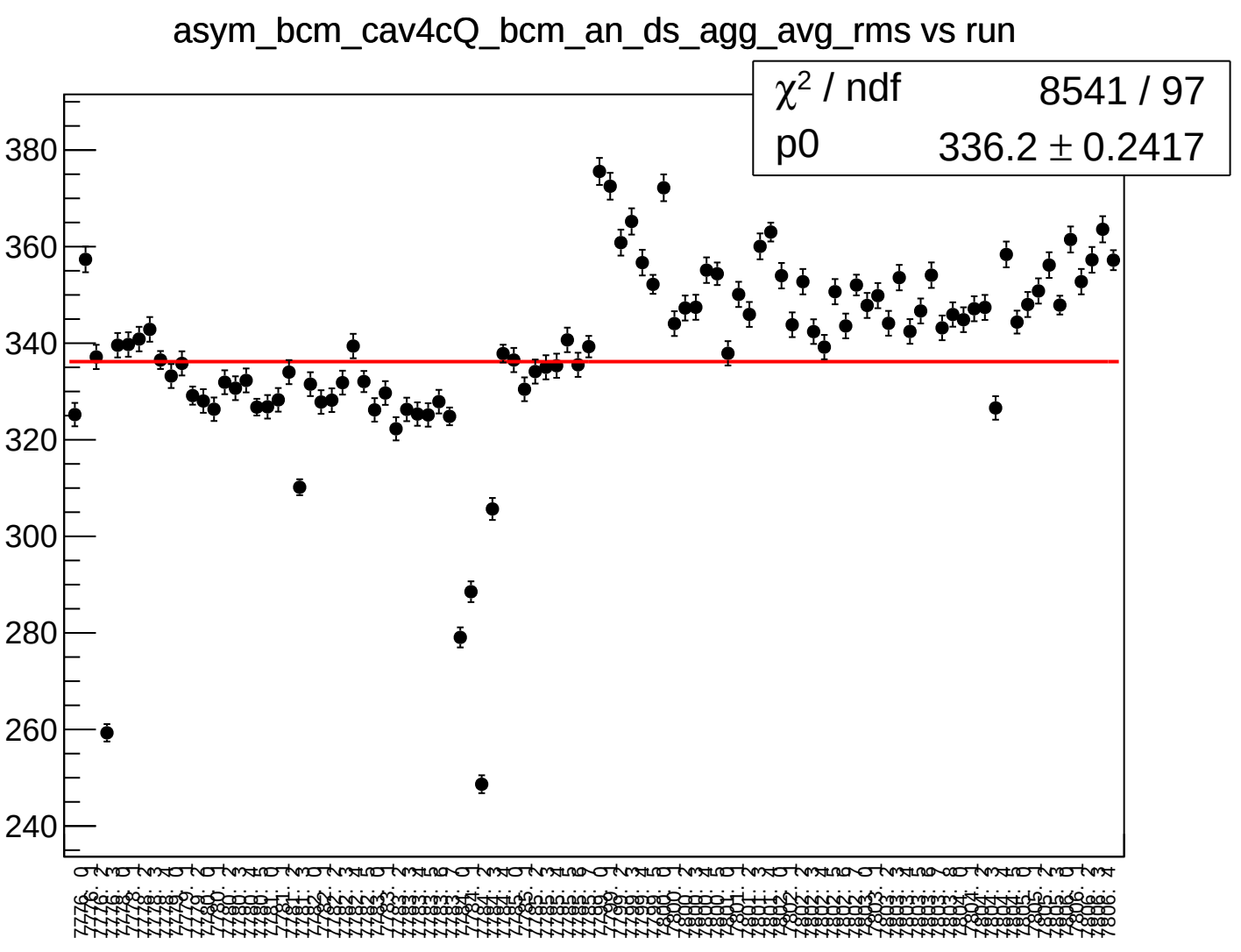

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.89 / 97
p0 −453.9 ± 342.4
pull
Entries 98
Mean 18.79
Std Dev 0
pull1D
Entries 98
Mean 0.005434
Std Dev 0.5039

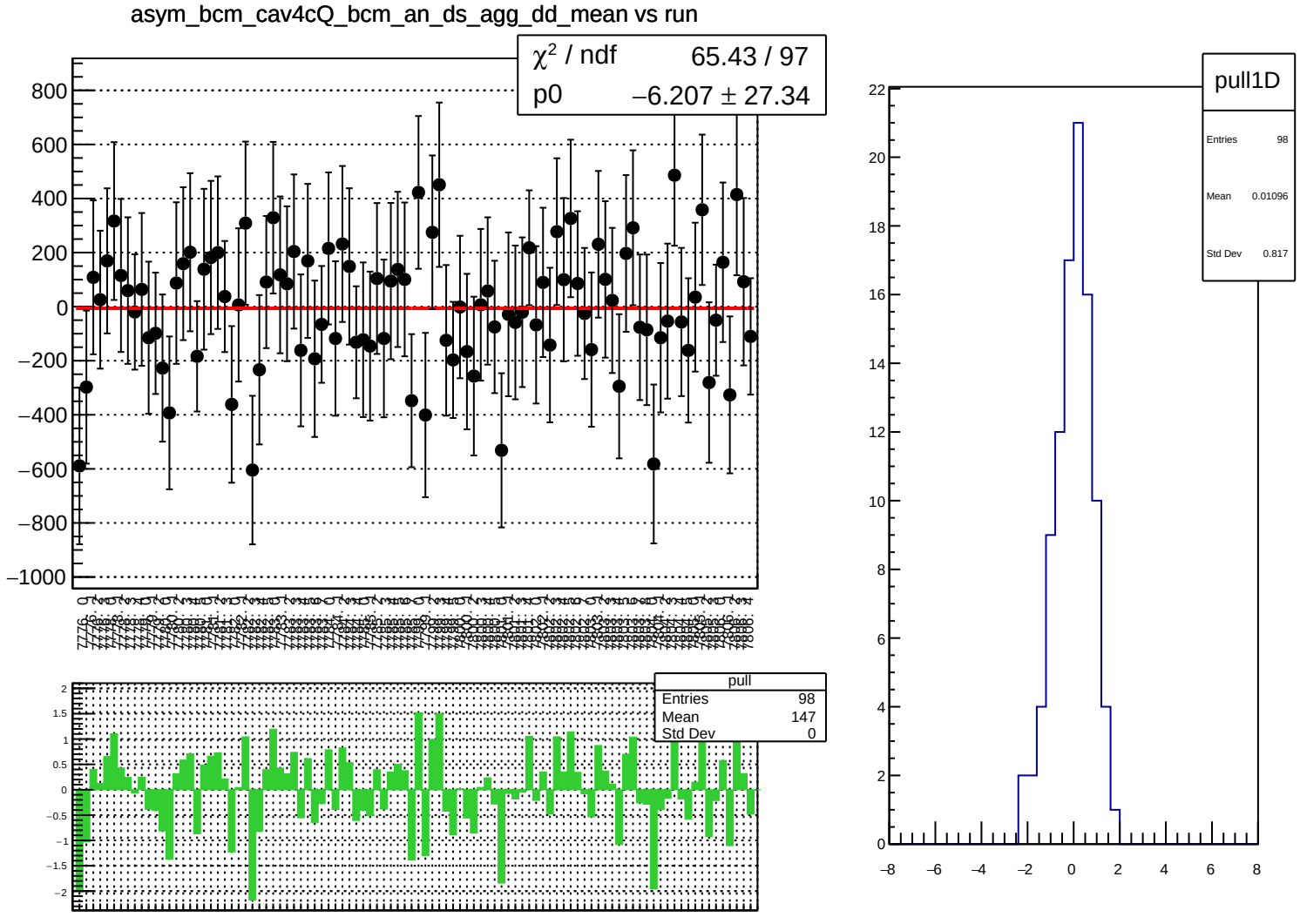

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8501 / 97
p0 336.7 ± 0.2421
380
360
340
320
300
280
260
240

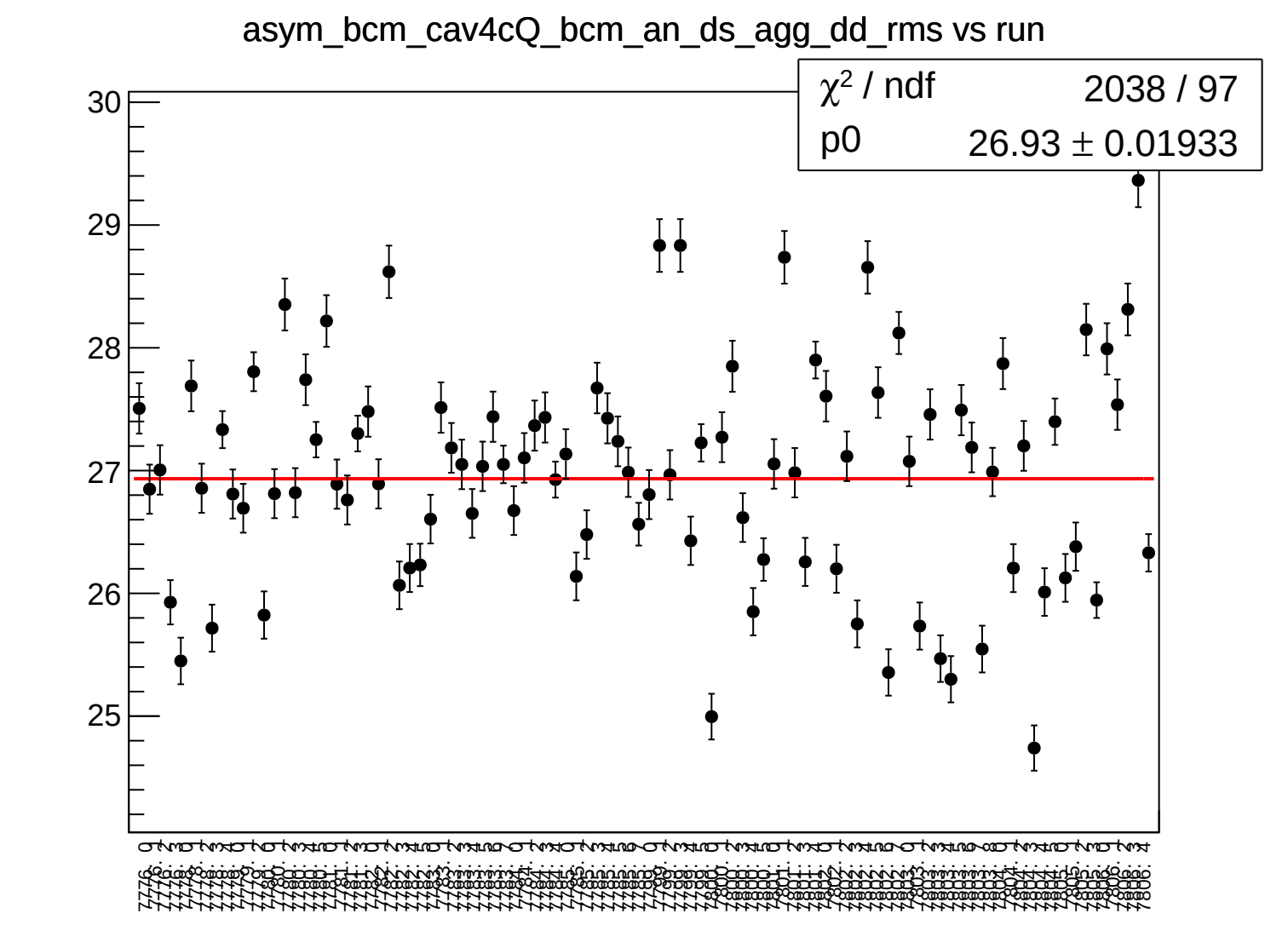

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 72.8 / 97
p0 −0.4465 ± 27.32
1000
500
0
−500
−1000
pull
Entries 98
Mean 199.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 98
Mean 0.007587
Std Dev 0.8619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

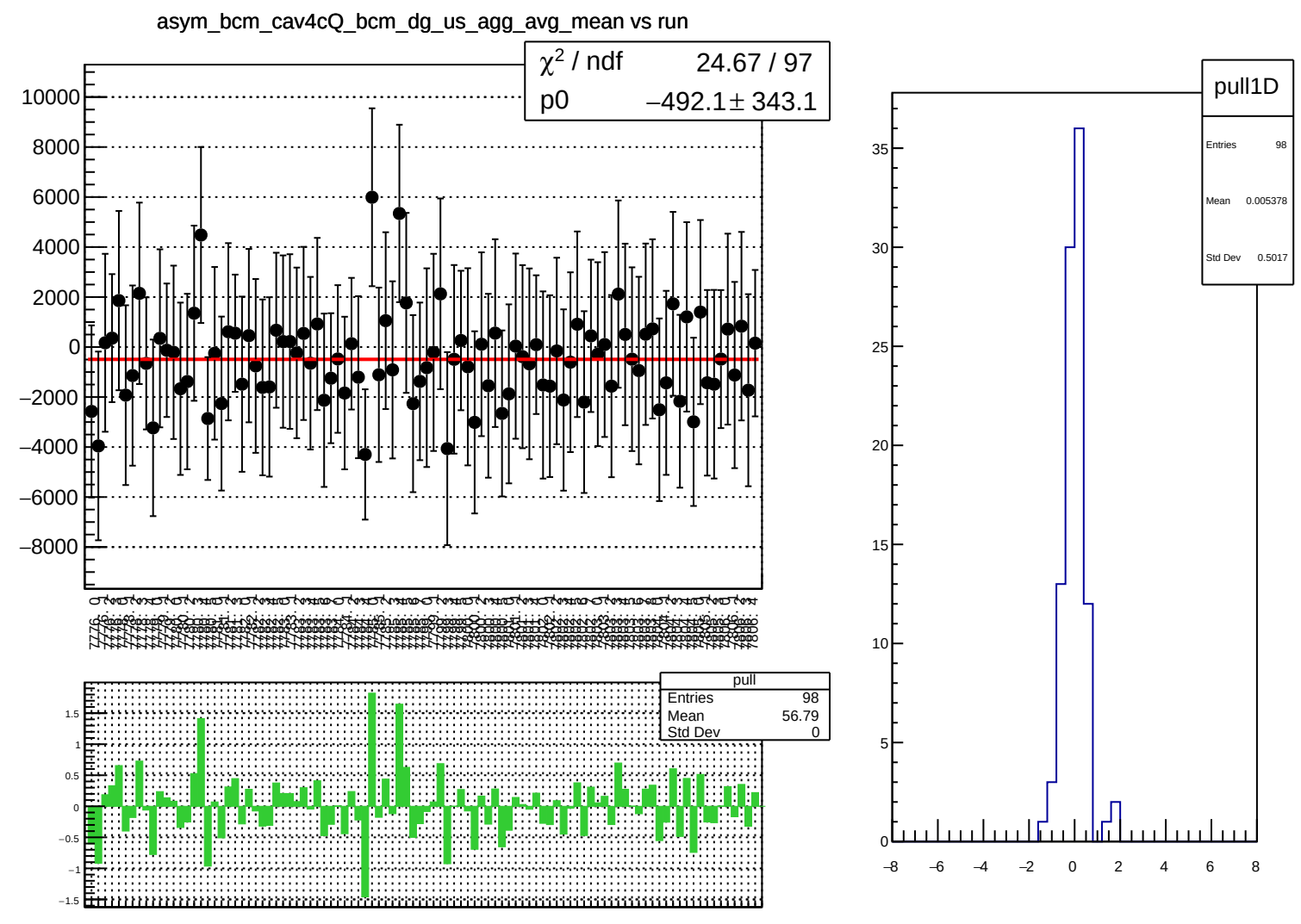

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1903 / 97
p0 26.91 ± 0.01932
29
28
27
26
25

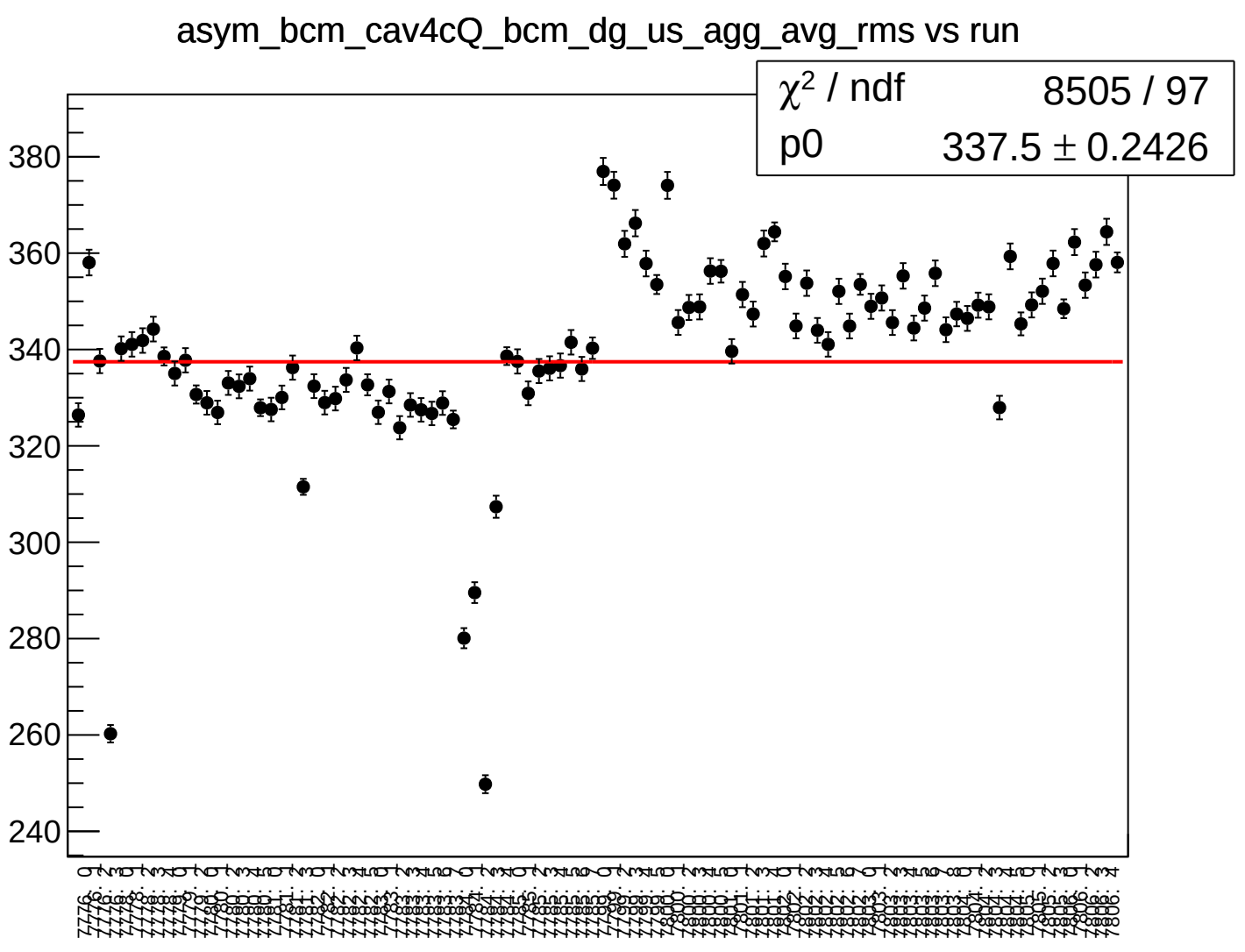

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.99 / 97
p0 −448.4 ± 341.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 98
Mean 17.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.005185
Std Dev 0.5049
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

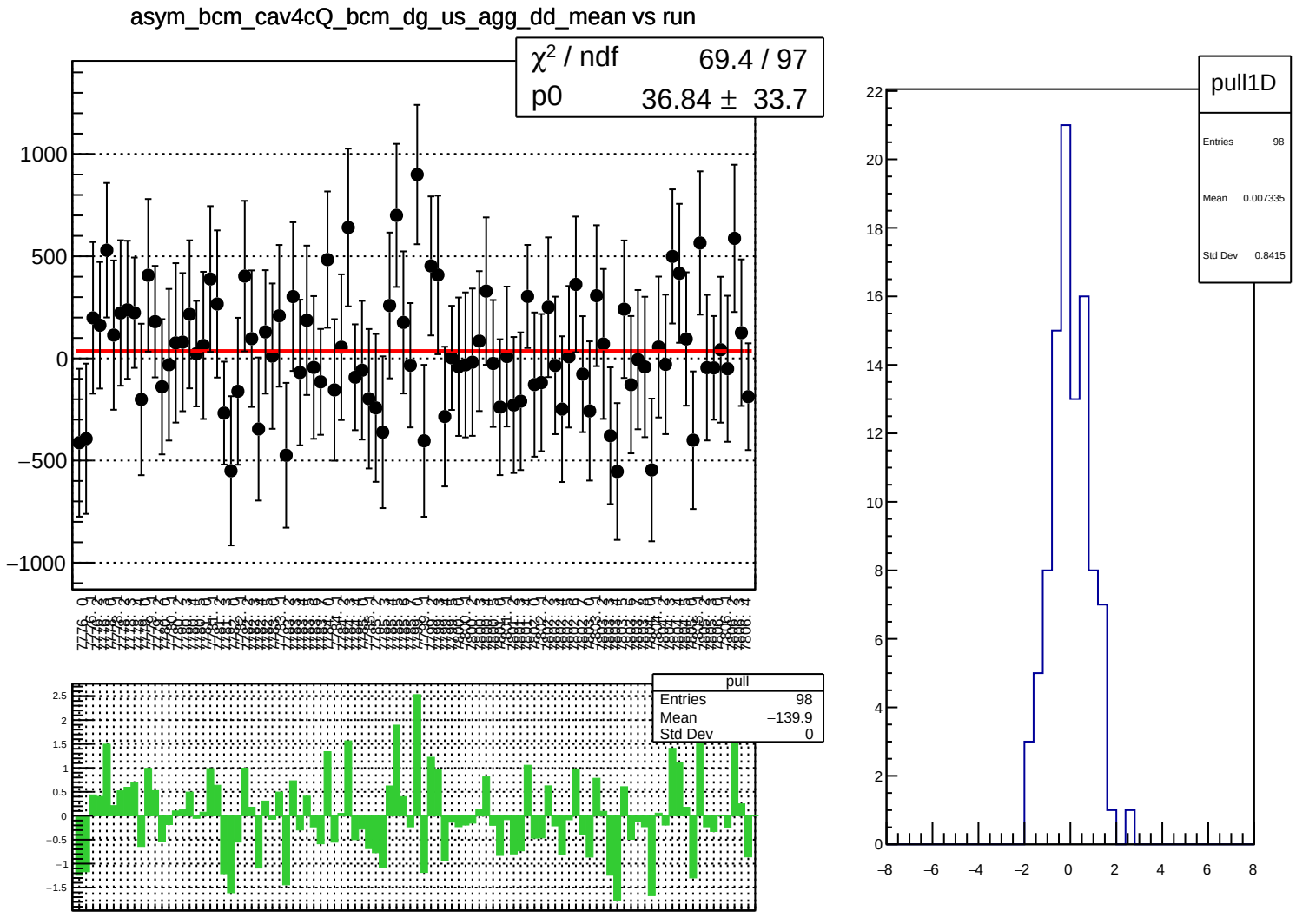

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8541 / 97
p0 336.2 ± 0.2417
380
360
340
320
300
280
260
240

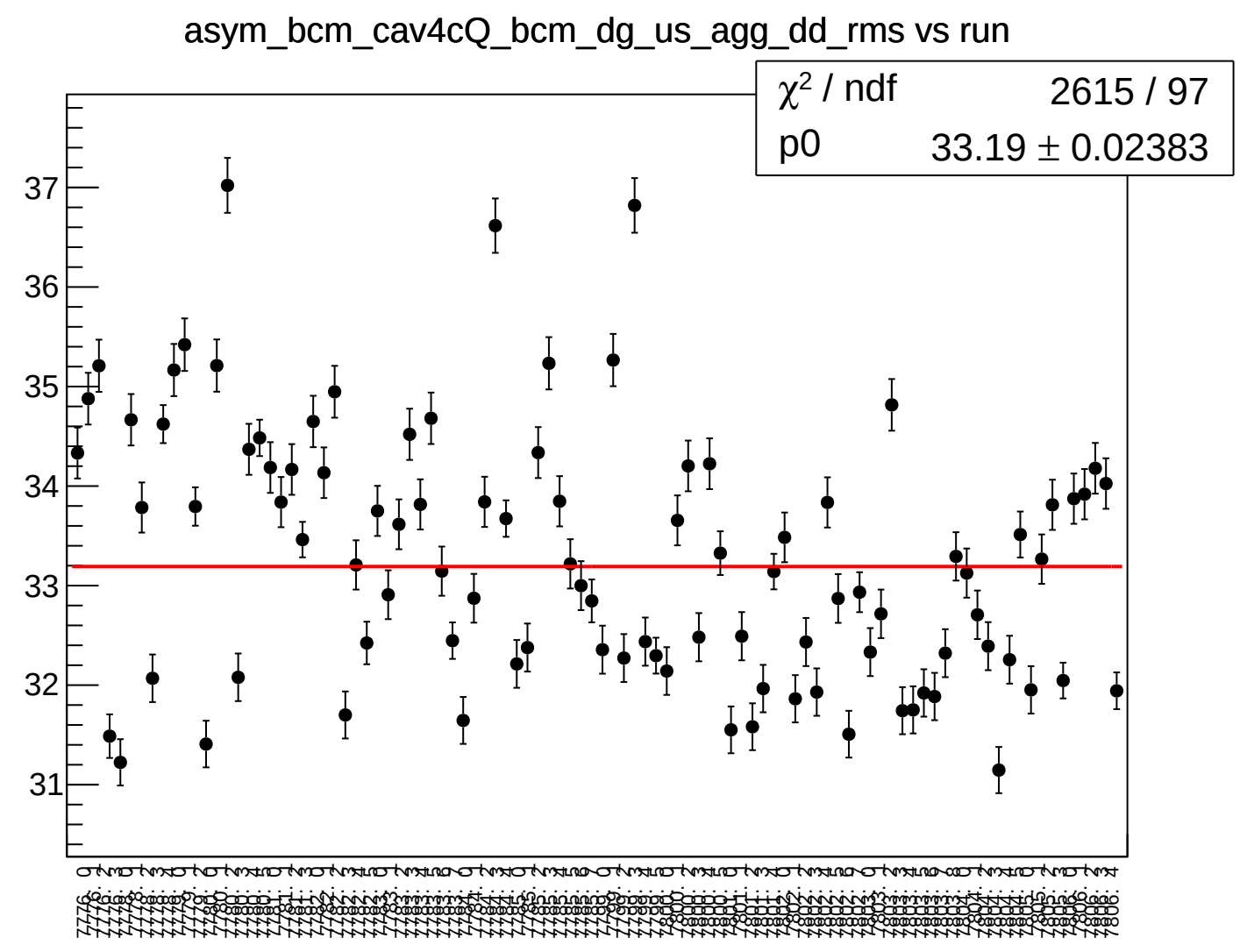

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 65.43 / 97
p0 −6.207 ± 27.34
pull
Entries 98
Mean 147
Std Dev 0
pull1D
Entries 98
Mean 0.01096
Std Dev 0.817

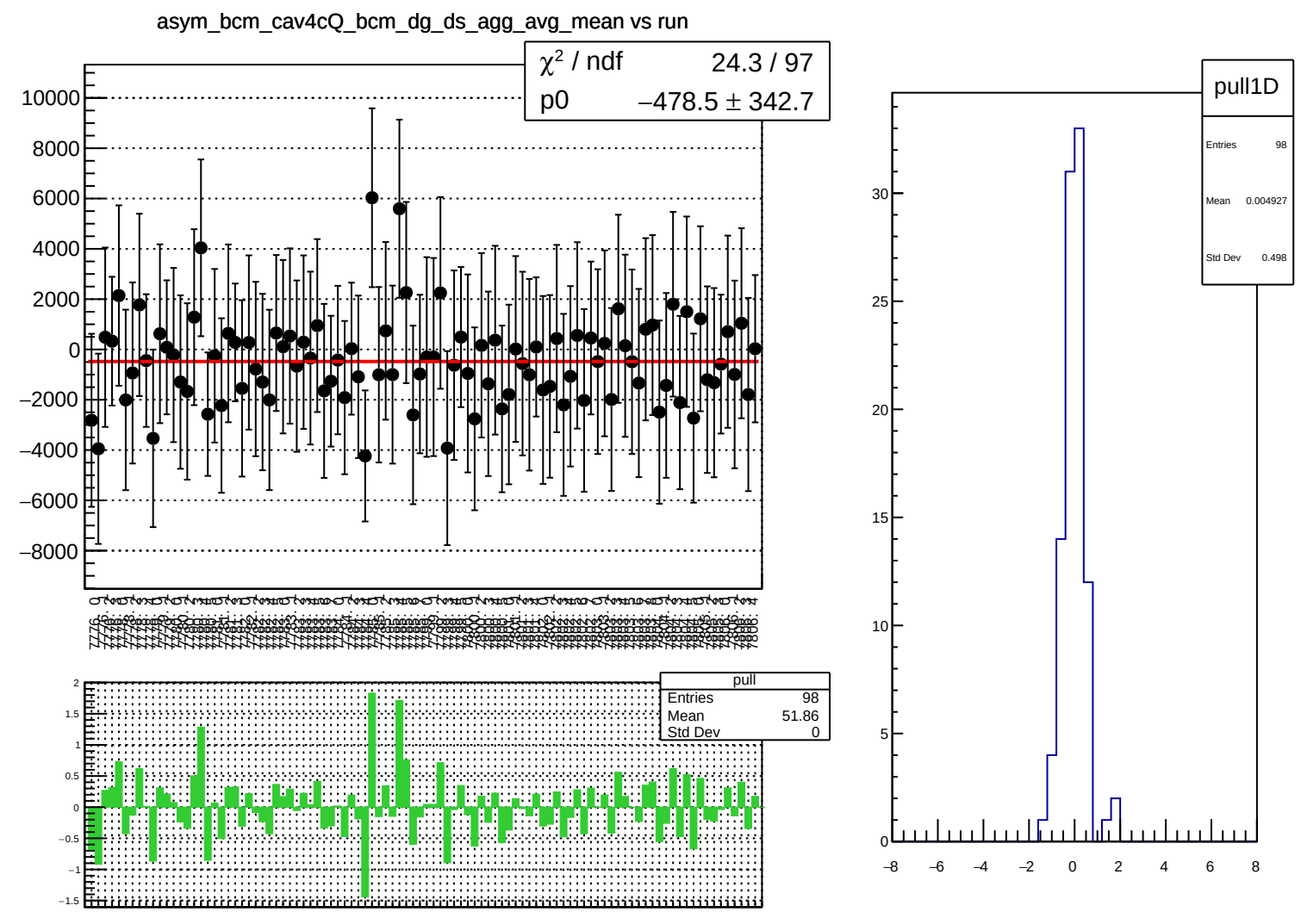

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2038 / 97
p0 26.93 ± 0.01933
30
29
28
27
26
25

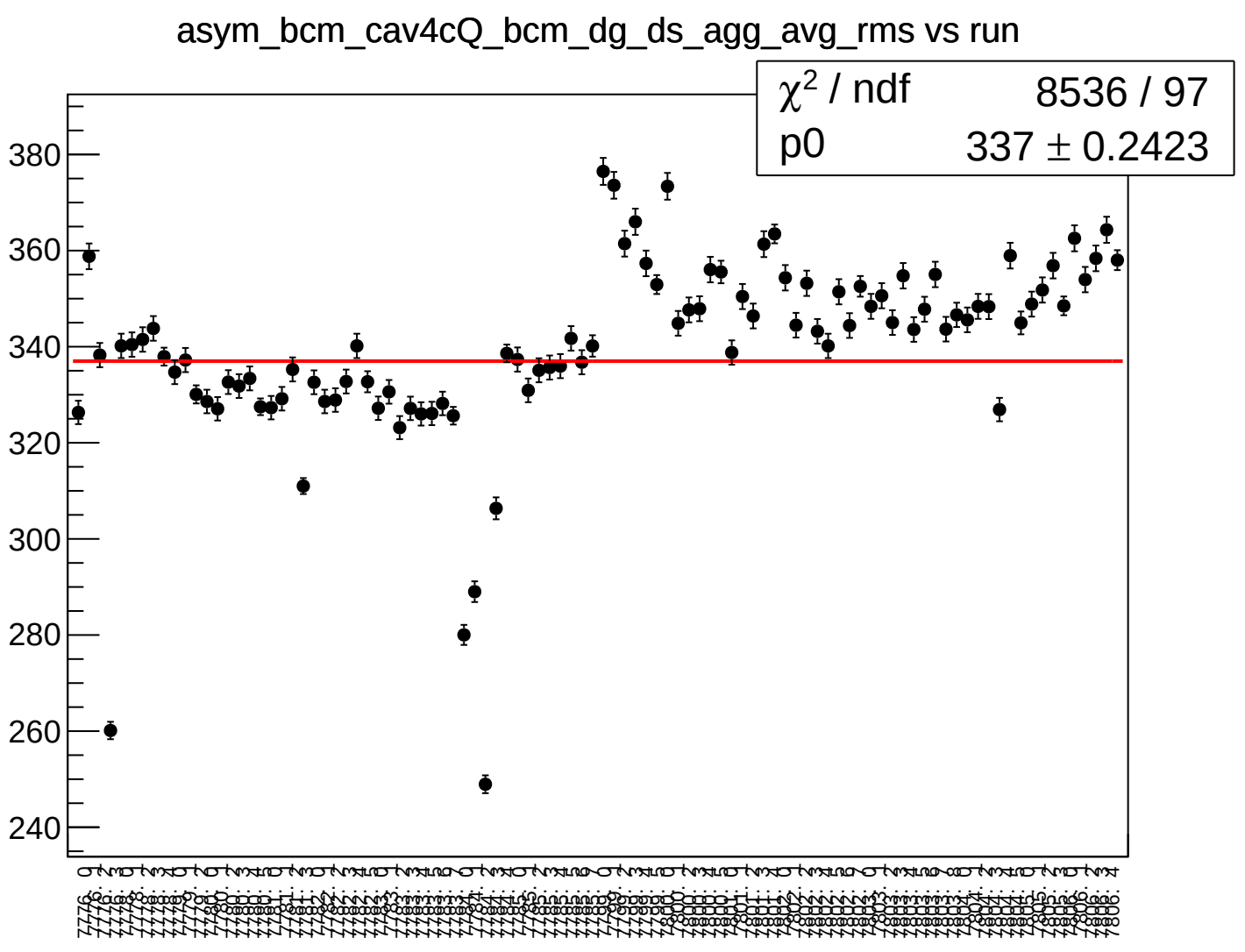

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 24.67 / 97
p0 −492.1 ± 343.1
pull
Entries 98
Mean 56.79
Std Dev 0
pull1D
Entries 98
Mean 0.005378
Std Dev 0.5017

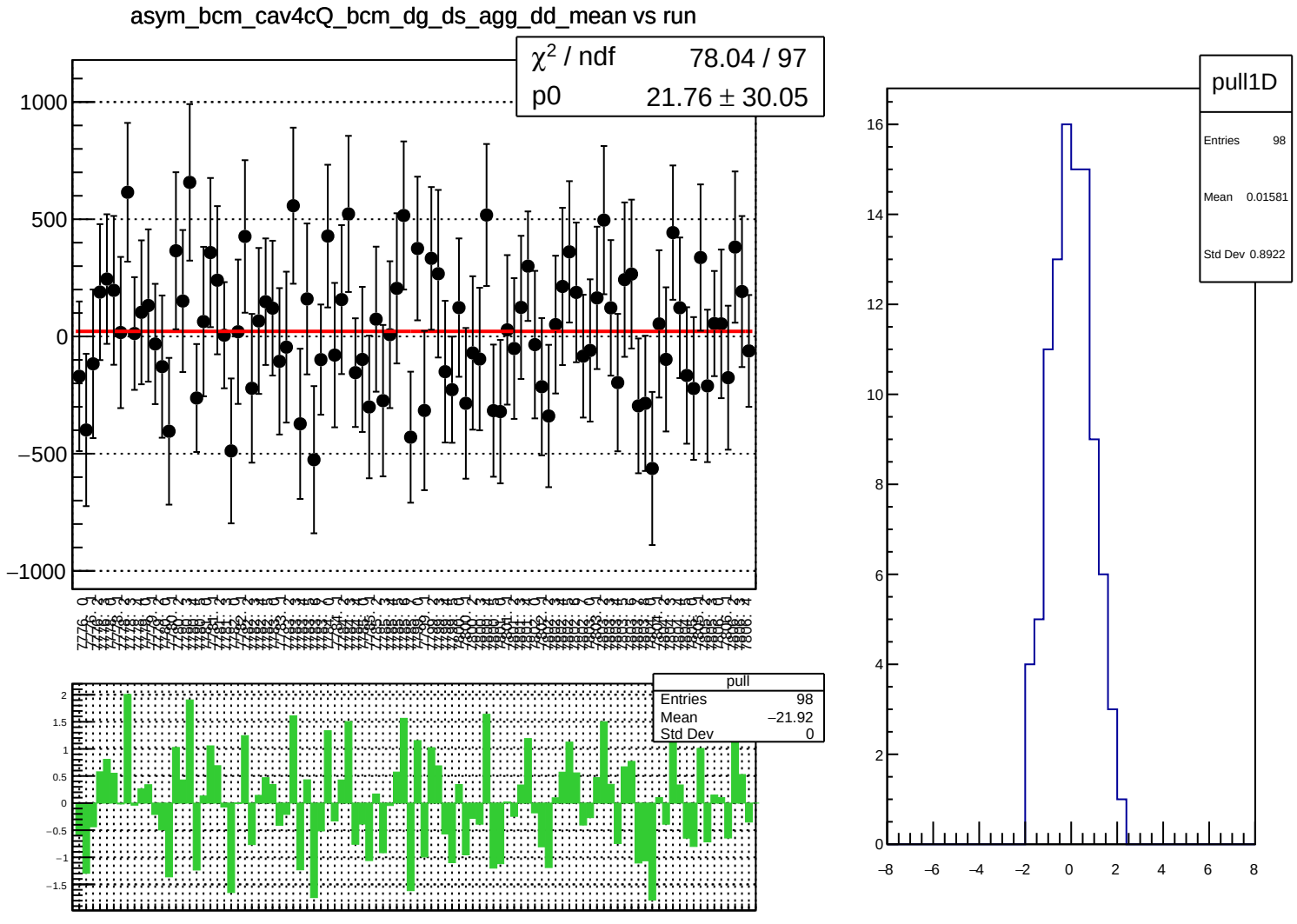

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 8505 / 97
p0 337.5 ± 0.2426
380
360
340
320
300
280
260
240

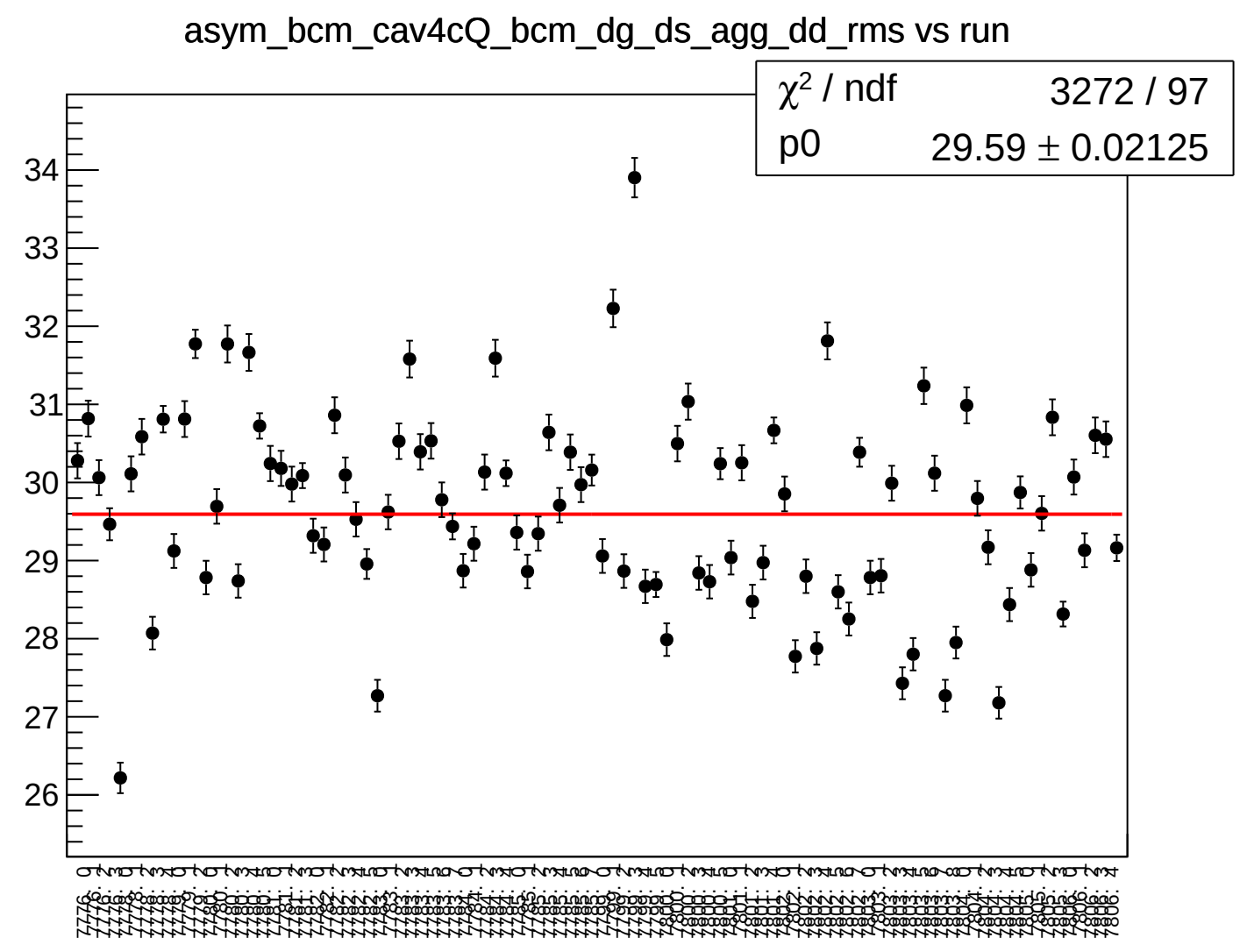

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 69.4 / 97
p0 36.84 ± 33.7
1000
500
0
−500
−1000
pull
Entries 98
Mean −139.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.007335
Std Dev 0.8415
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

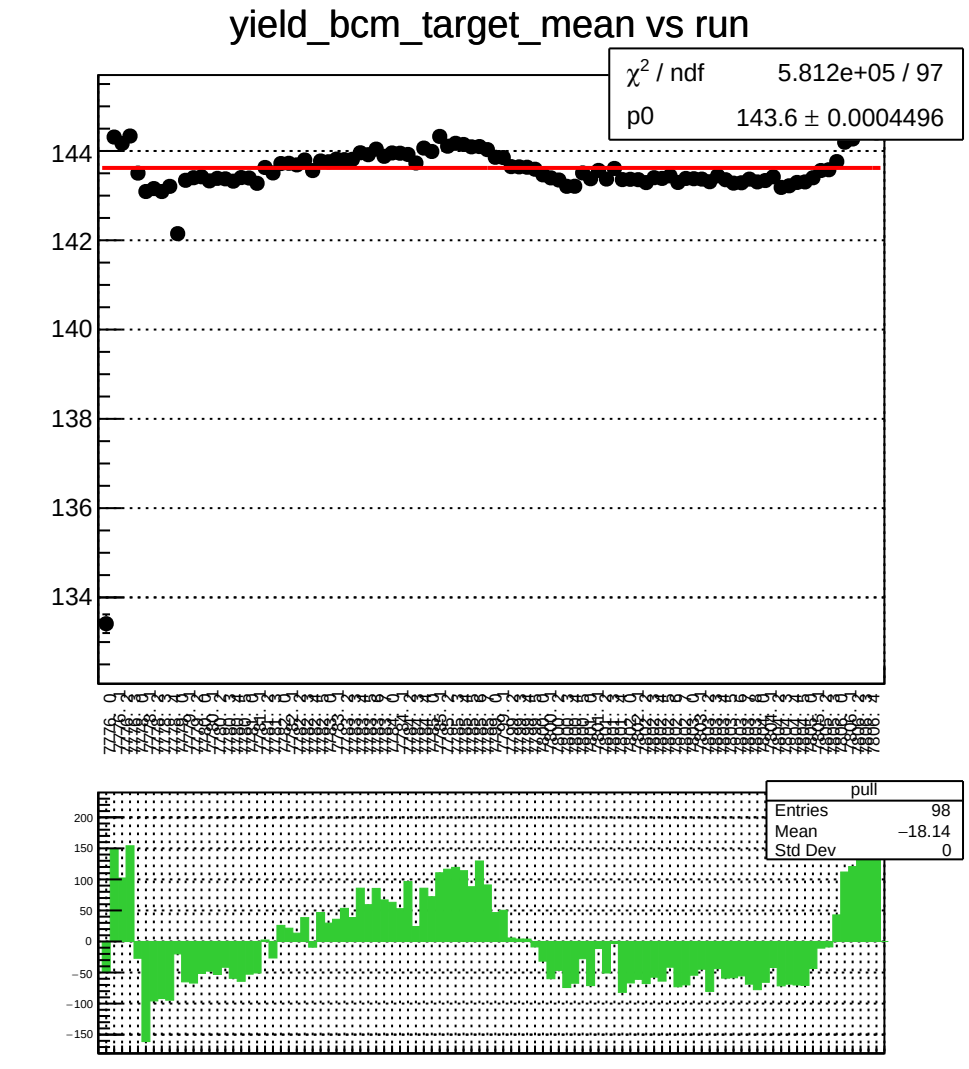

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2615 / 97
p0 33.19 ± 0.02383
37
36
35
34
33
32
31

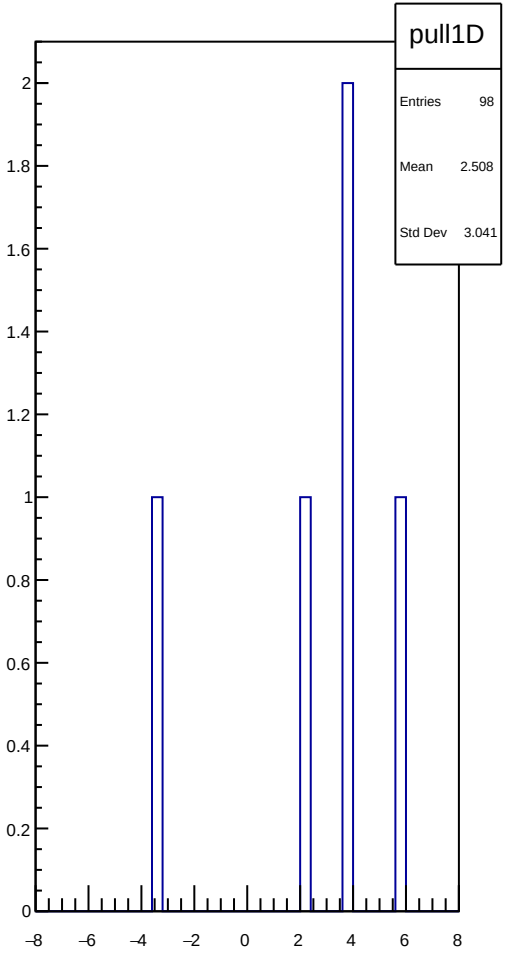

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.3 / 97
p0 −478.5 ± 342.7
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 98
Mean 51.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.004927
Std Dev 0.498
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

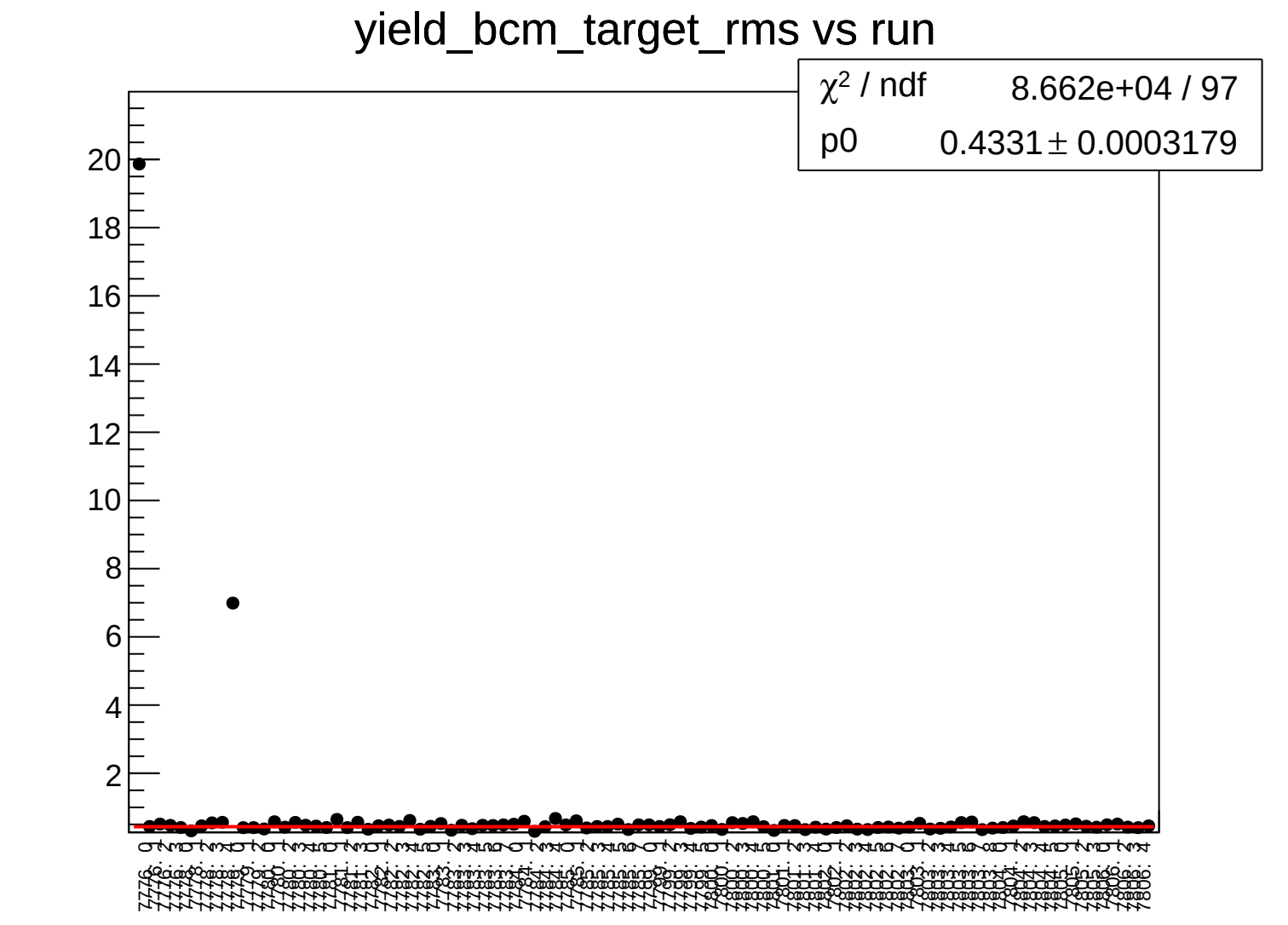

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 8536 / 97
p0 337 ± 0.2423
380
360
340
320
300
280
260
240

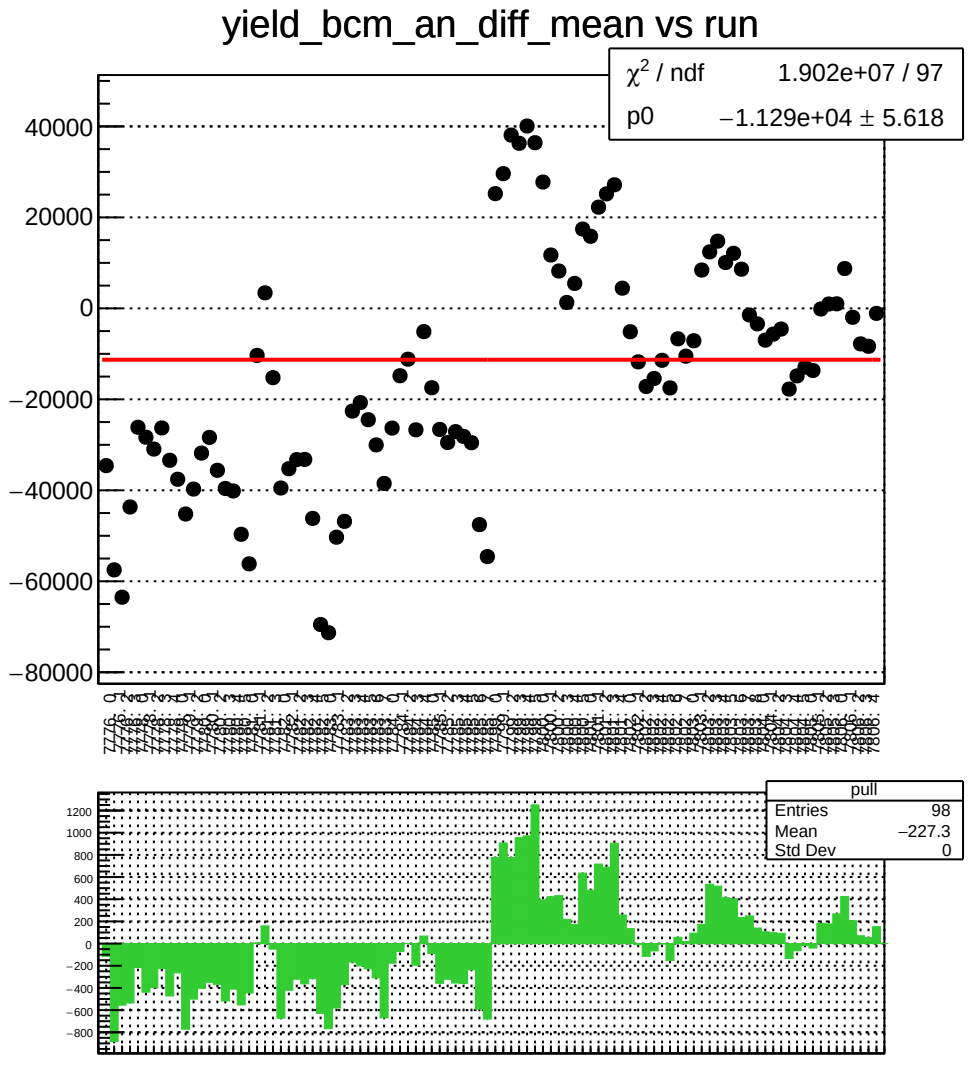

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 78.04 / 97
p0 21.76 ± 30.05
1000
500
0
−500
−1000
pull
Entries 98
Mean −21.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.01581
Std Dev 0.8922
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

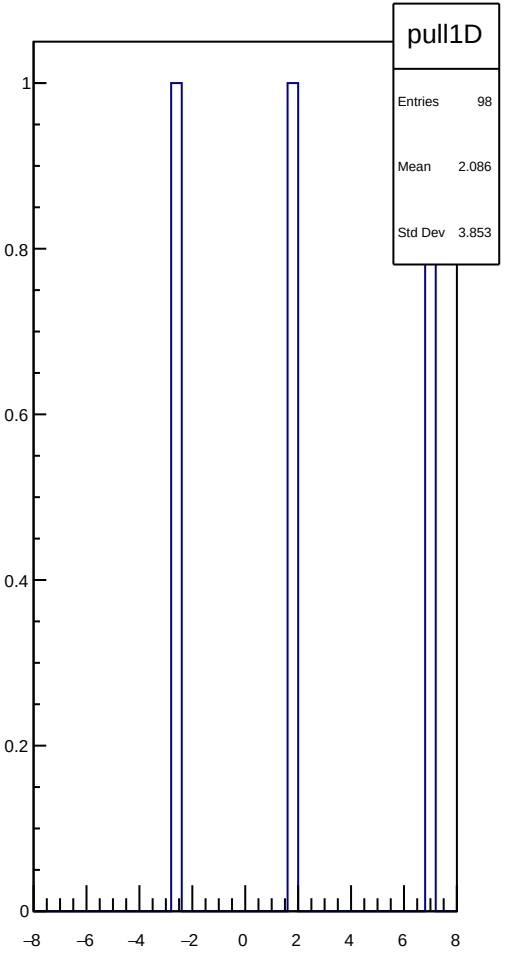

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3272 / 97
p0 29.59 ± 0.02125
34
33
32
31
30
29
28
27
26

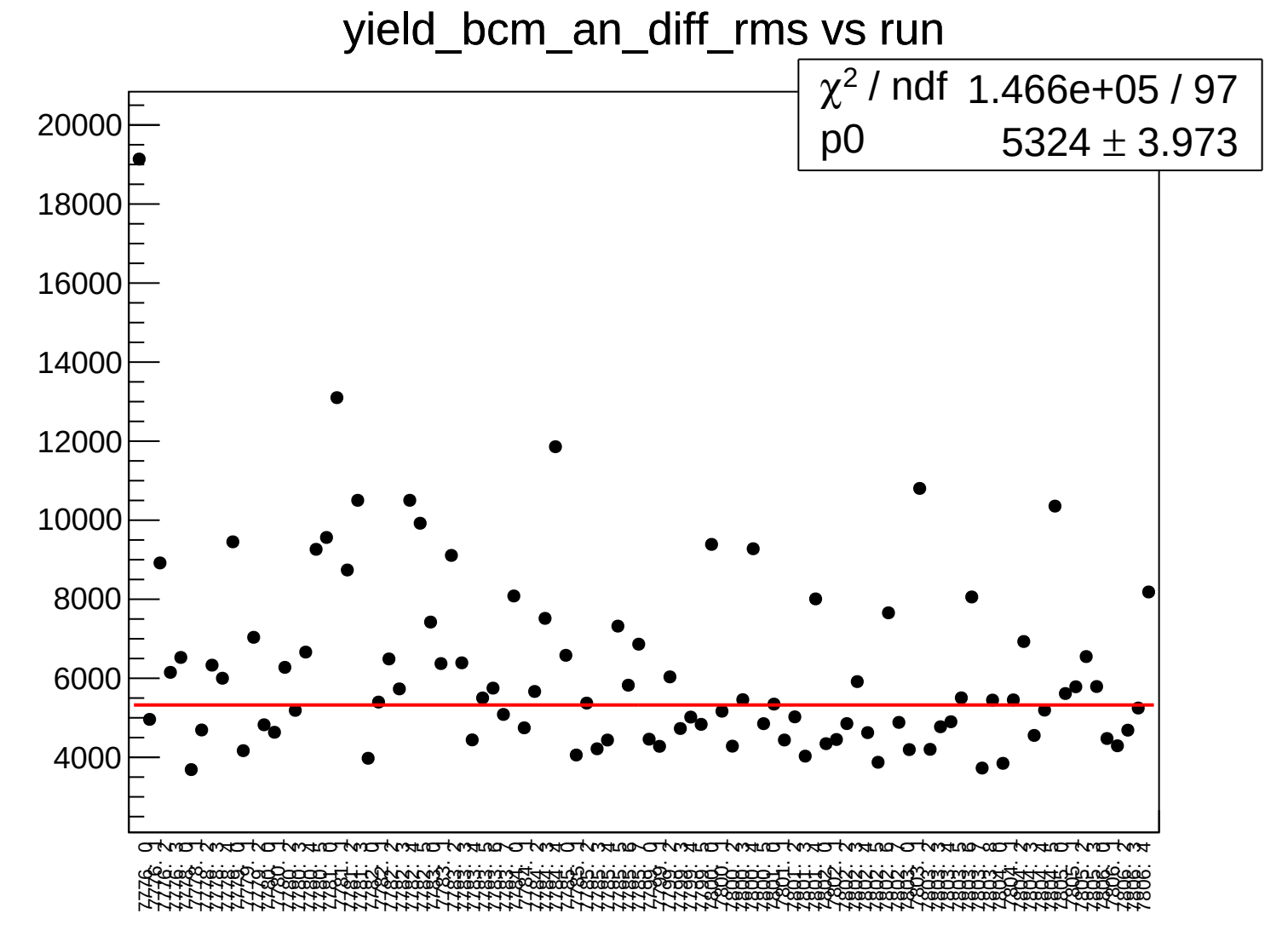

yield_bcm_target_mean vs run
χ² / ndf 5.812e+05 / 97
p0 143.6 ± 0.0004496
144
142
140
138
136
134
pull
Entries 98
Mean −18.14
Std Dev 0
200
150
100
50
0
−50
−100
−150

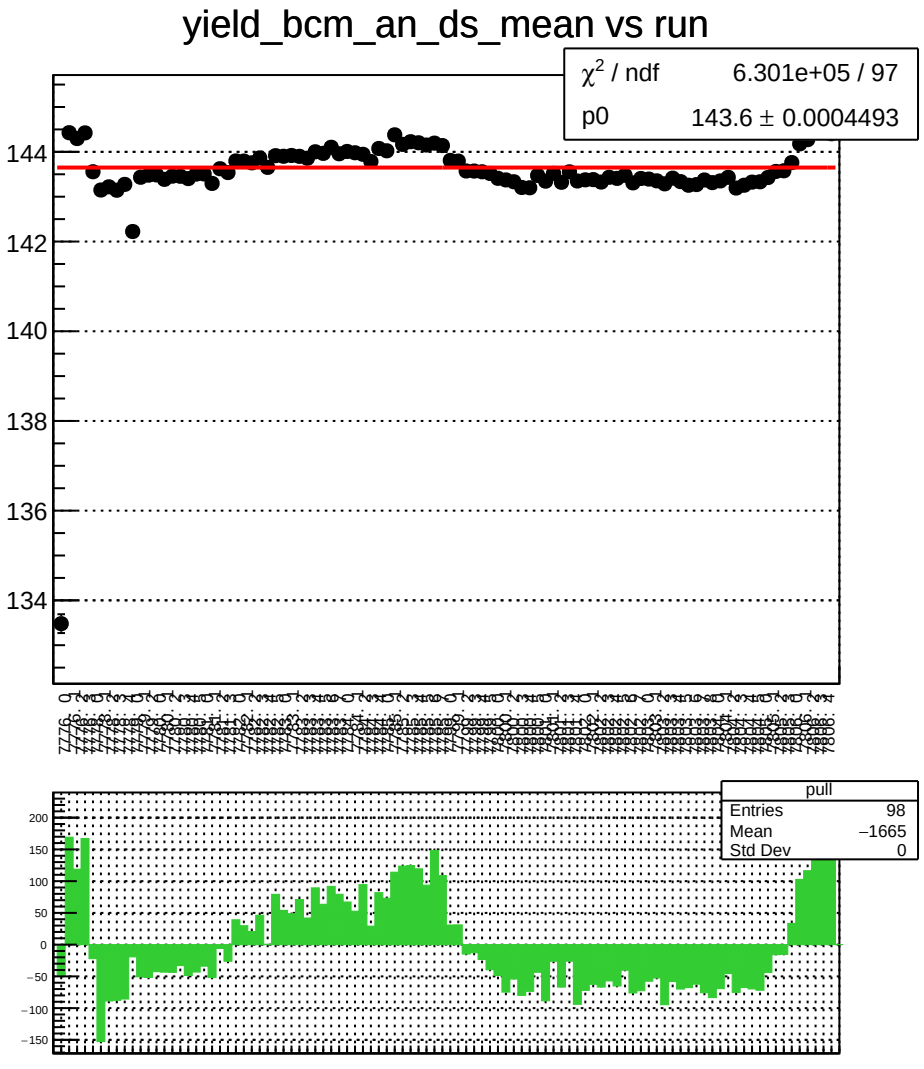

pull1D
Entries 98
Mean 2.508
Std Dev 3.041
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

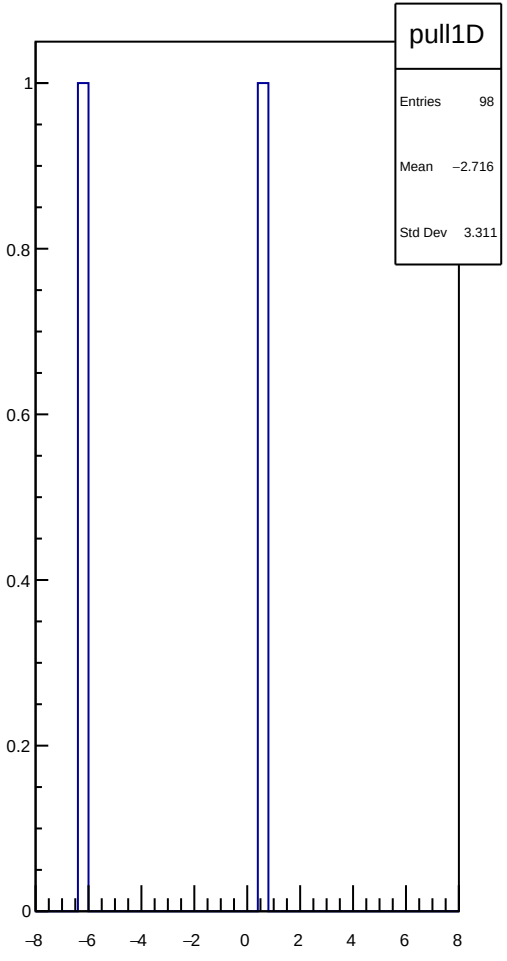

yield_bcm_target_rms vs run
χ² / ndf 8.662e+04 / 97
p0 0.4331 ± 0.0003179
20
18
16
14
12
10
8
6
4
2

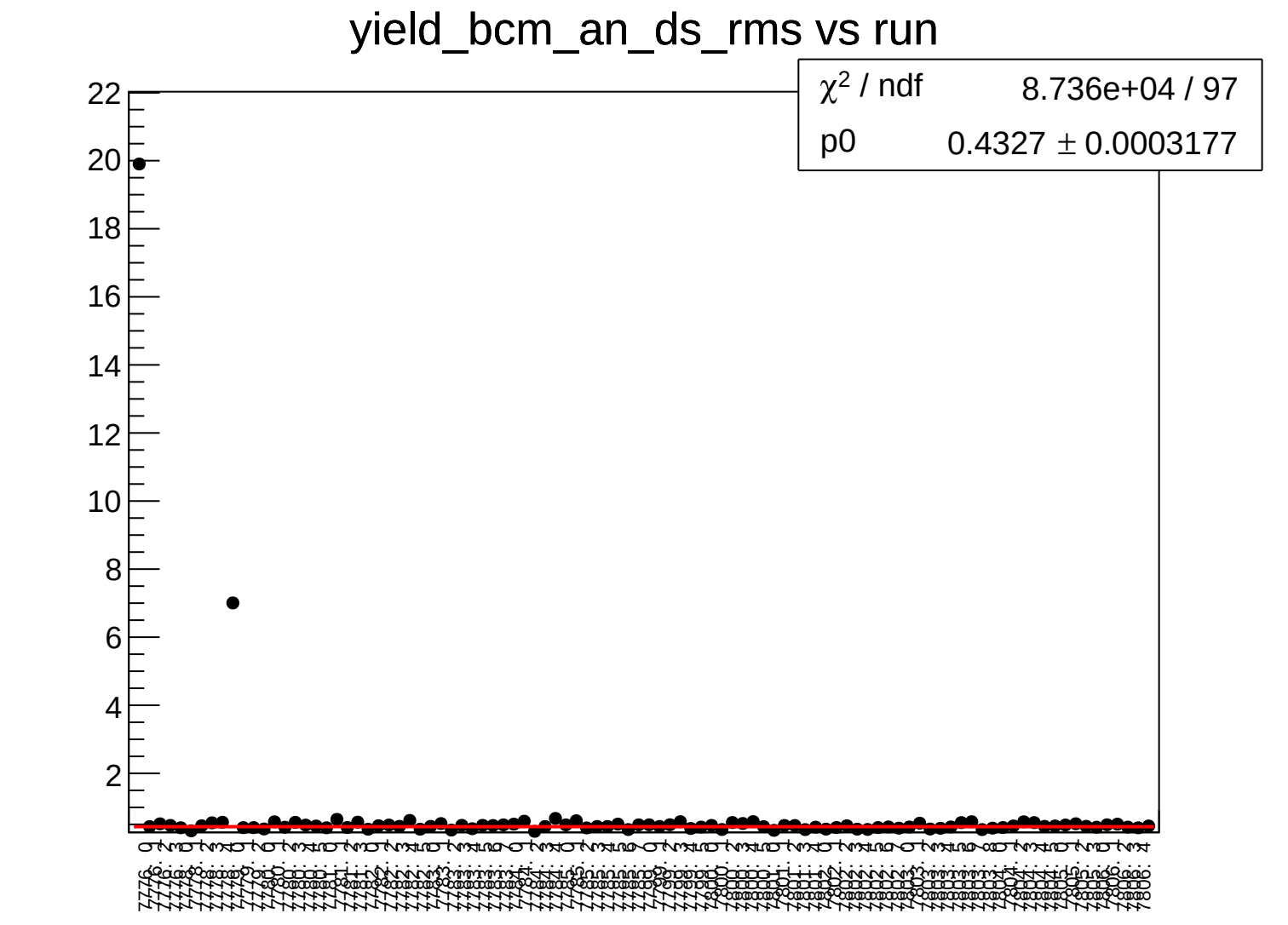

yield_bcm_an_diff_mean vs run
χ² / ndf 1.902e+07 / 97
p0 −1.129e+04 ± 5.618
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −227.3
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

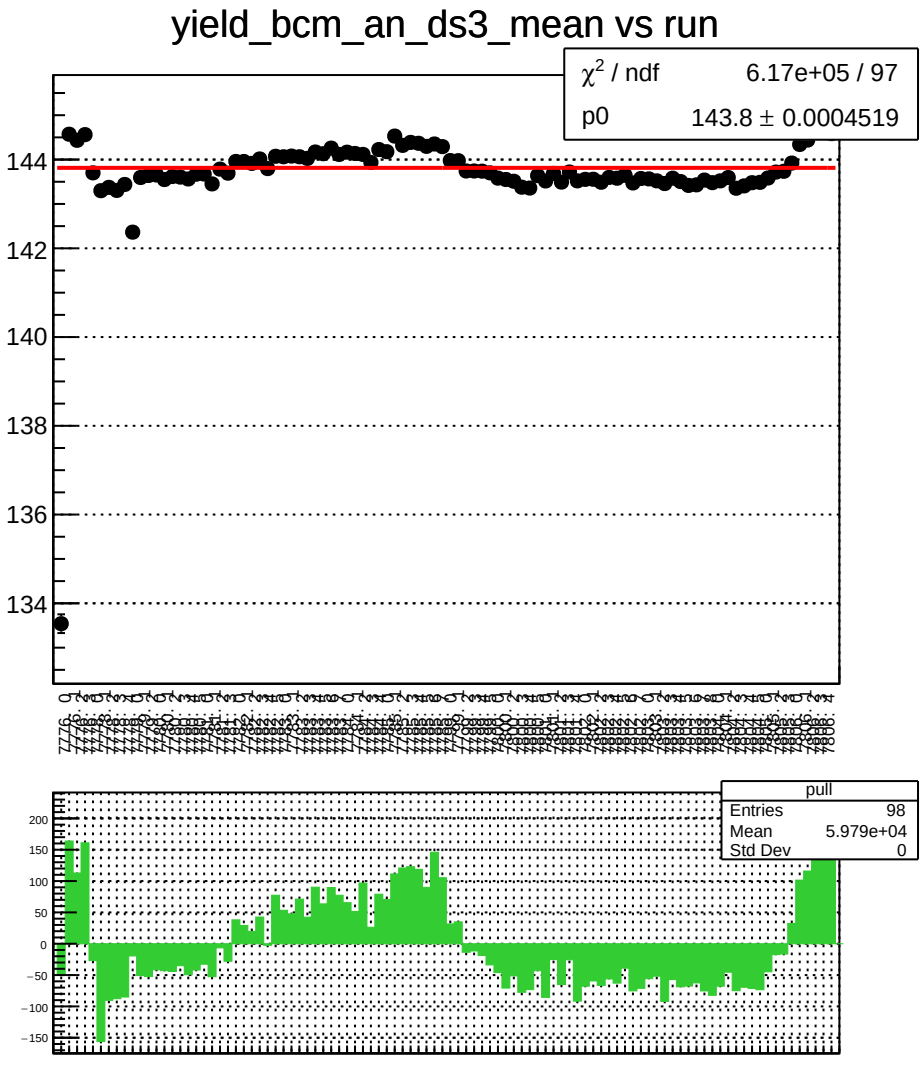

pull1D
Entries 98
Mean 2.086
Std Dev 3.853
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

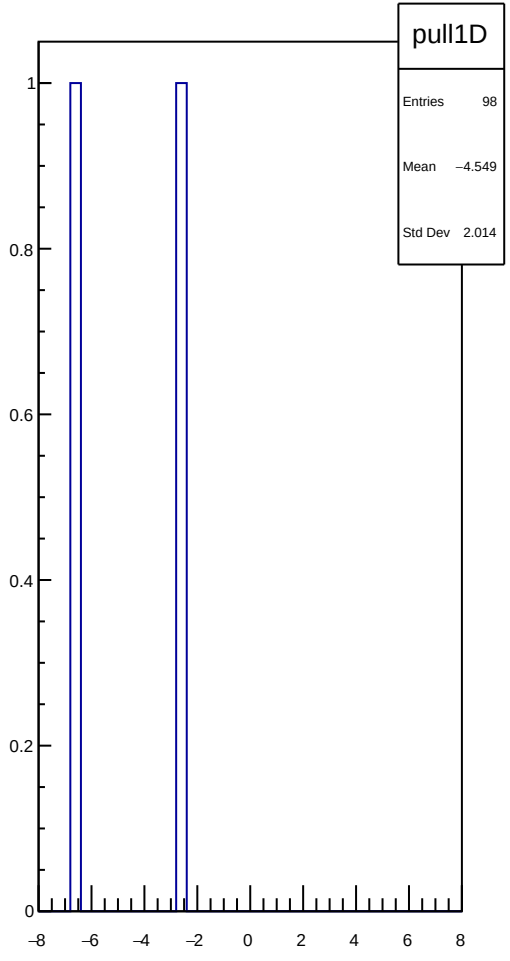

yield_bcm_an_diff_rms vs run
χ² / ndf 1.466e+05 / 97
p0 5324 ± 3.973
20000
18000
16000
14000
12000
10000
8000
6000
4000

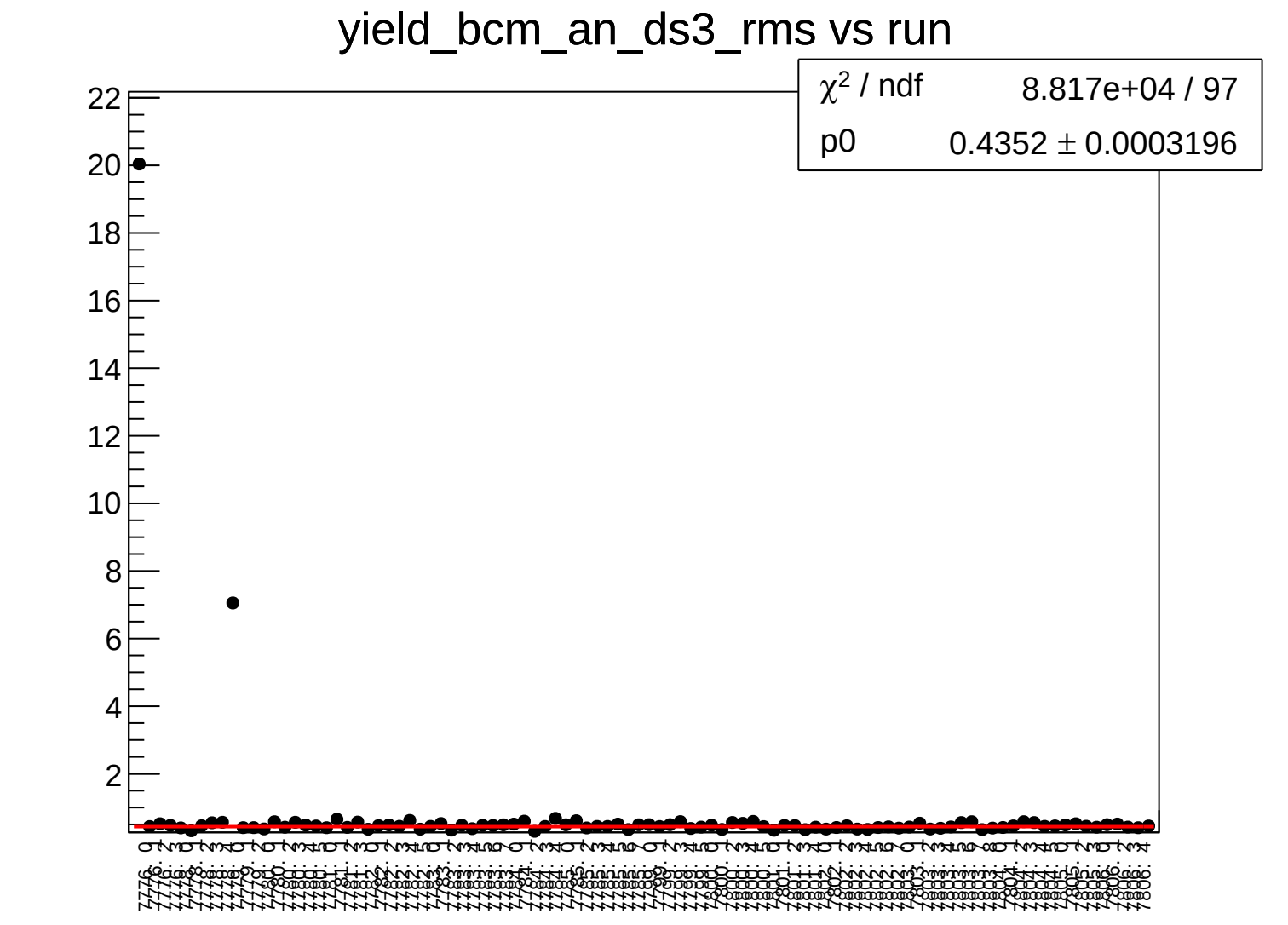

yield_bcm_an_ds_mean vs run
χ² / ndf 6.301e+05 / 97
p0 143.6 ± 0.0004493
144
142
140
138
136
134
pull
Entries 98
Mean −1665
Std Dev 0
200
150
100
50
0
−50
−100
−150

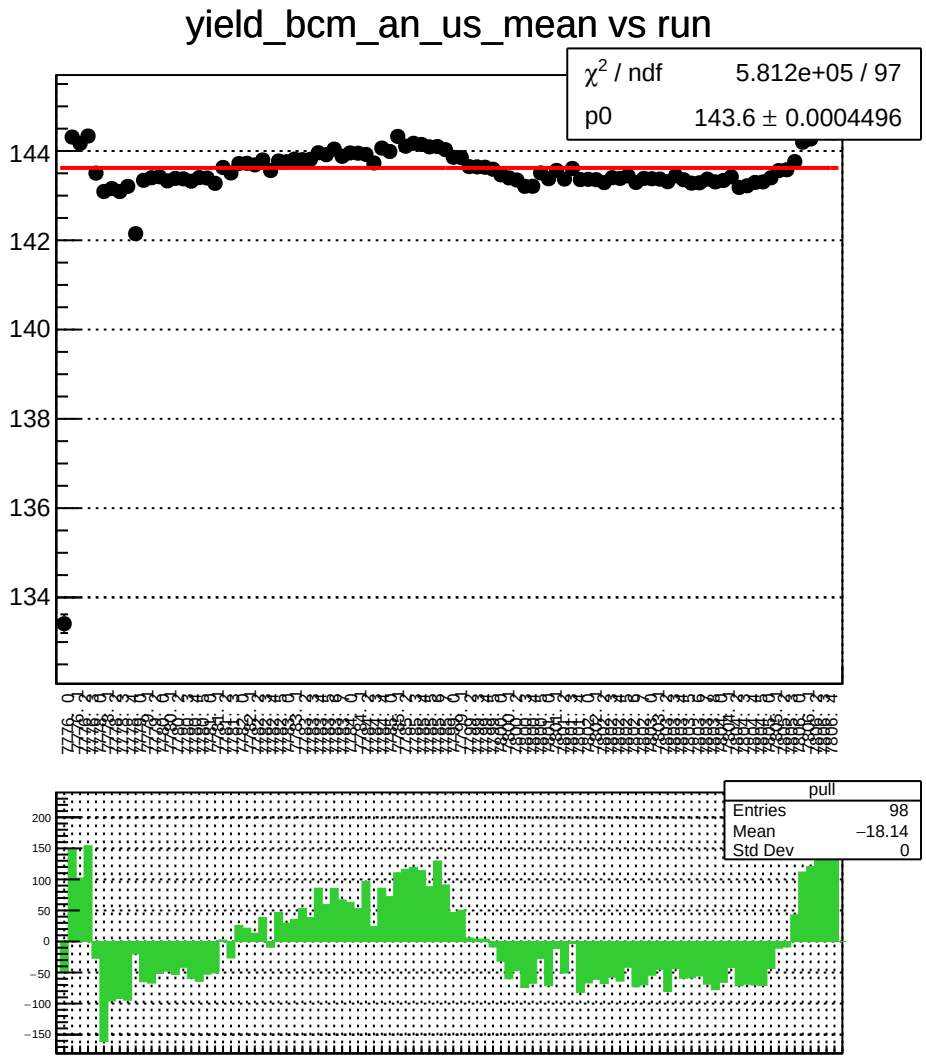

pull1D
Entries 98
Mean −2.716
Std Dev 3.311
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

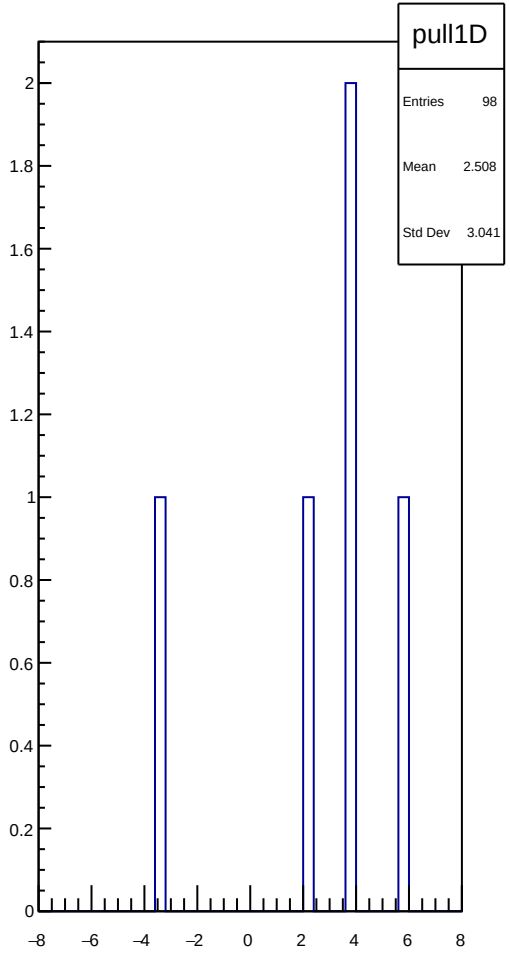

yield_bcm_an_ds_rms vs run
χ² / ndf 8.736e+04 / 97
p0 0.4327 ± 0.0003177
22
20
18
16
14
12
10
8
6
4
2

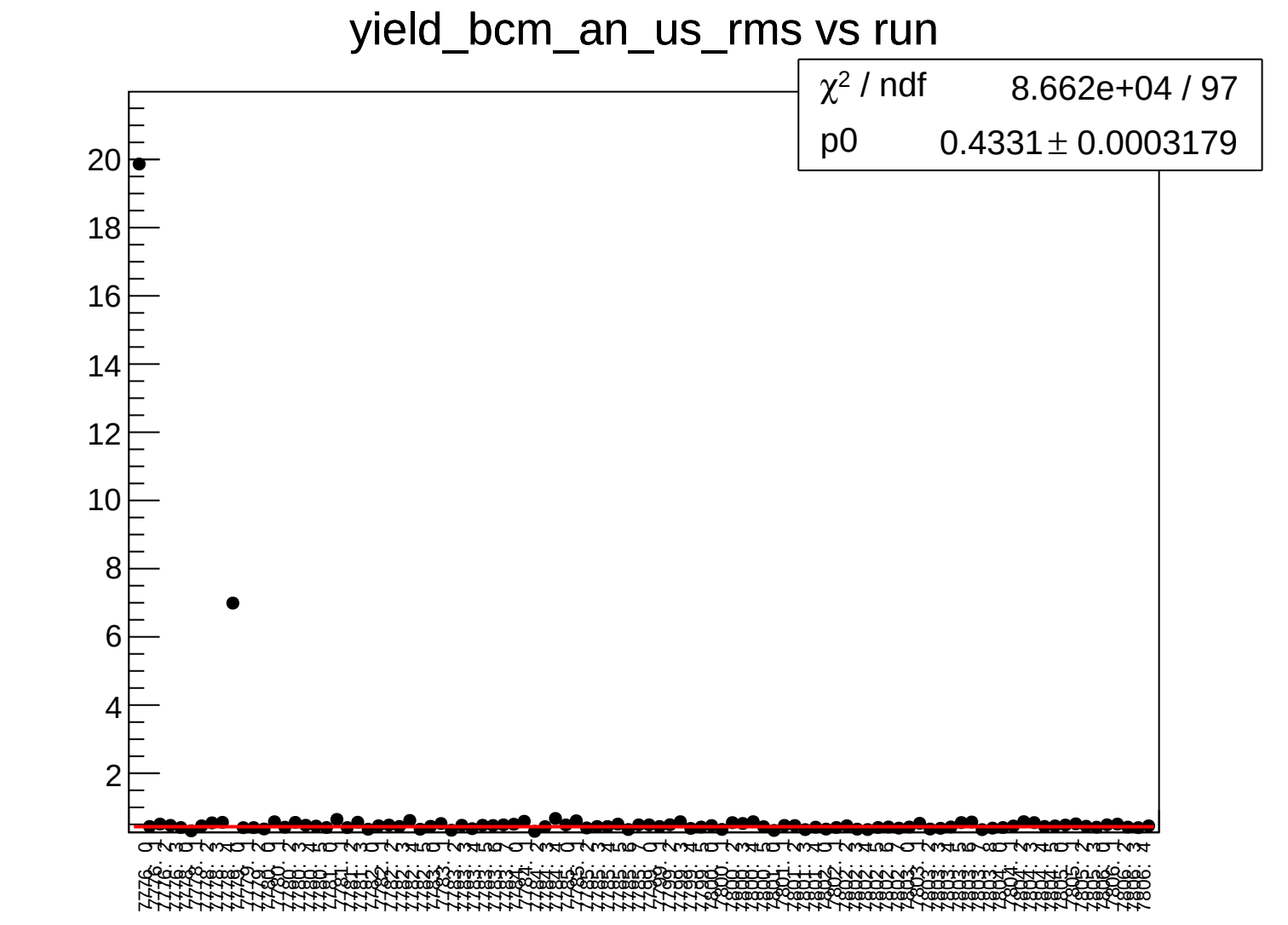

yield_bcm_an_ds3_mean vs run
χ² / ndf 6.17e+05 / 97
p0 143.8 ± 0.0004519
144
142
140
138
136
134
pull
Entries 98
Mean 5.979e+04
Std Dev 0
200
150
100
50
0
−50
−100
−150

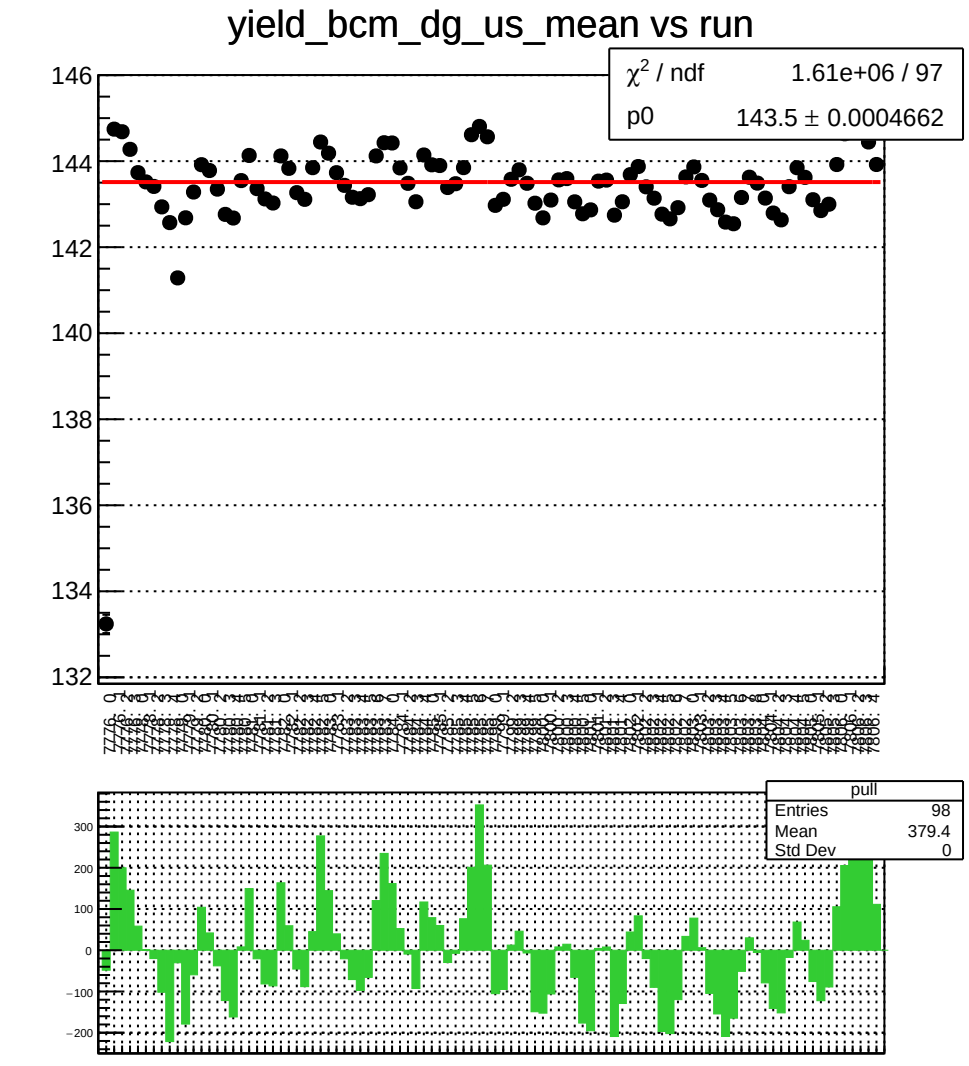

pull1D
Entries 98
Mean −4.549
Std Dev 2.014
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

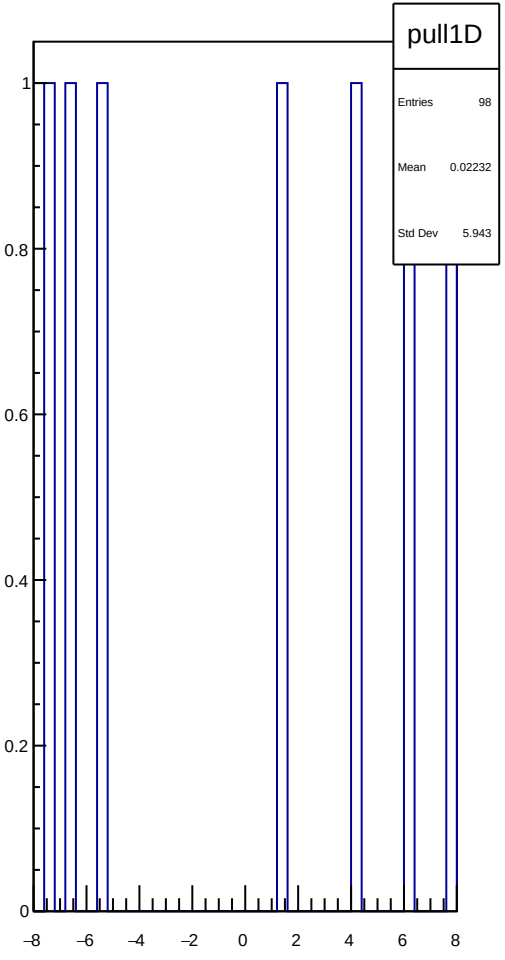

yield_bcm_an_ds3_rms vs run
χ² / ndf 8.817e+04 / 97
p0 0.4352 ± 0.0003196
22
20
18
16
14
12
10
8
6
4
2

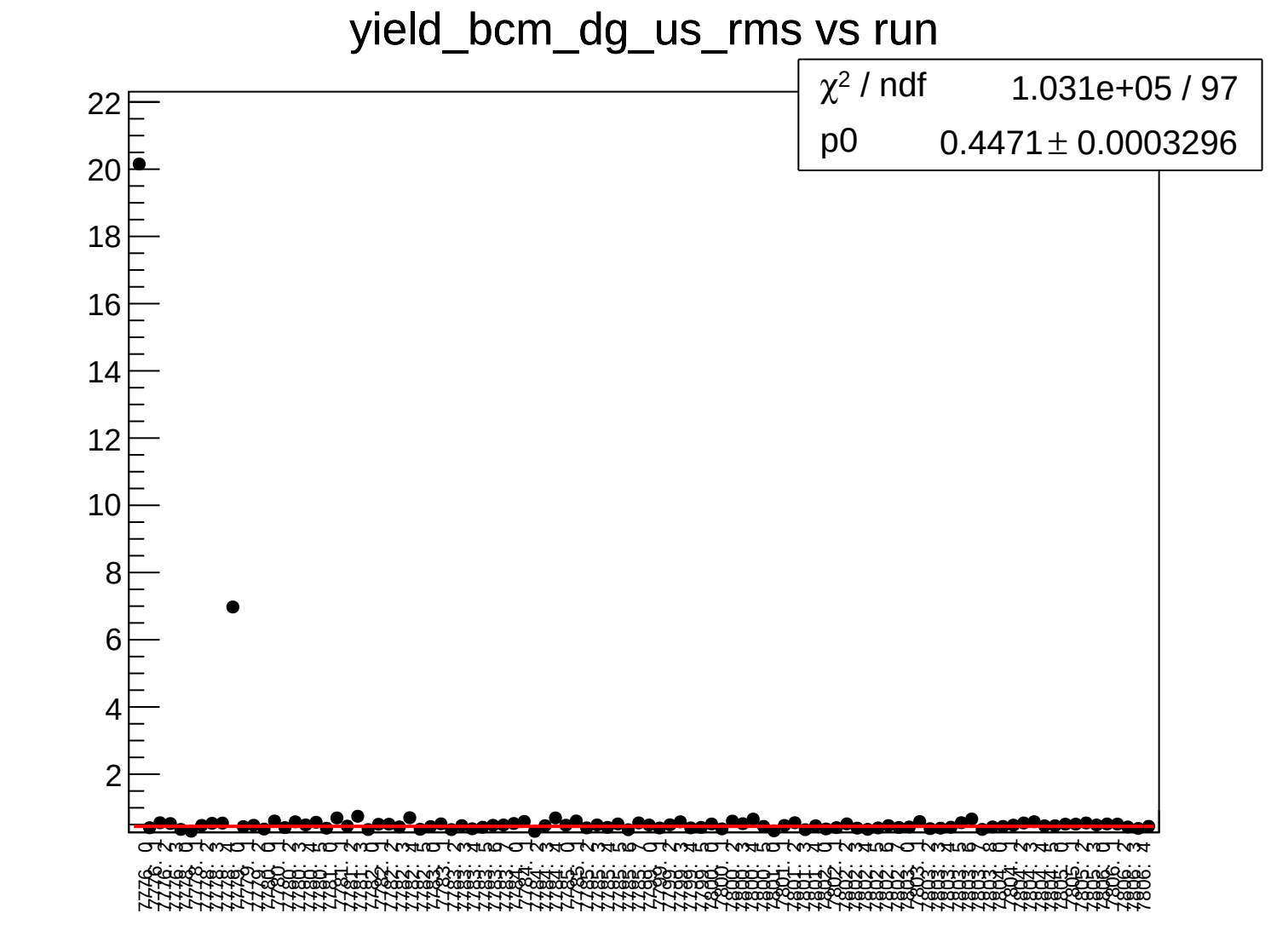

yield_bcm_an_us_mean vs run
χ² / ndf 5.812e+05 / 97
p0 143.6 ± 0.0004496
144
142
140
138
136
134
pull
Entries 98
Mean −18.14
Std Dev 0
200
150
100
50
0
−50
−100
−150

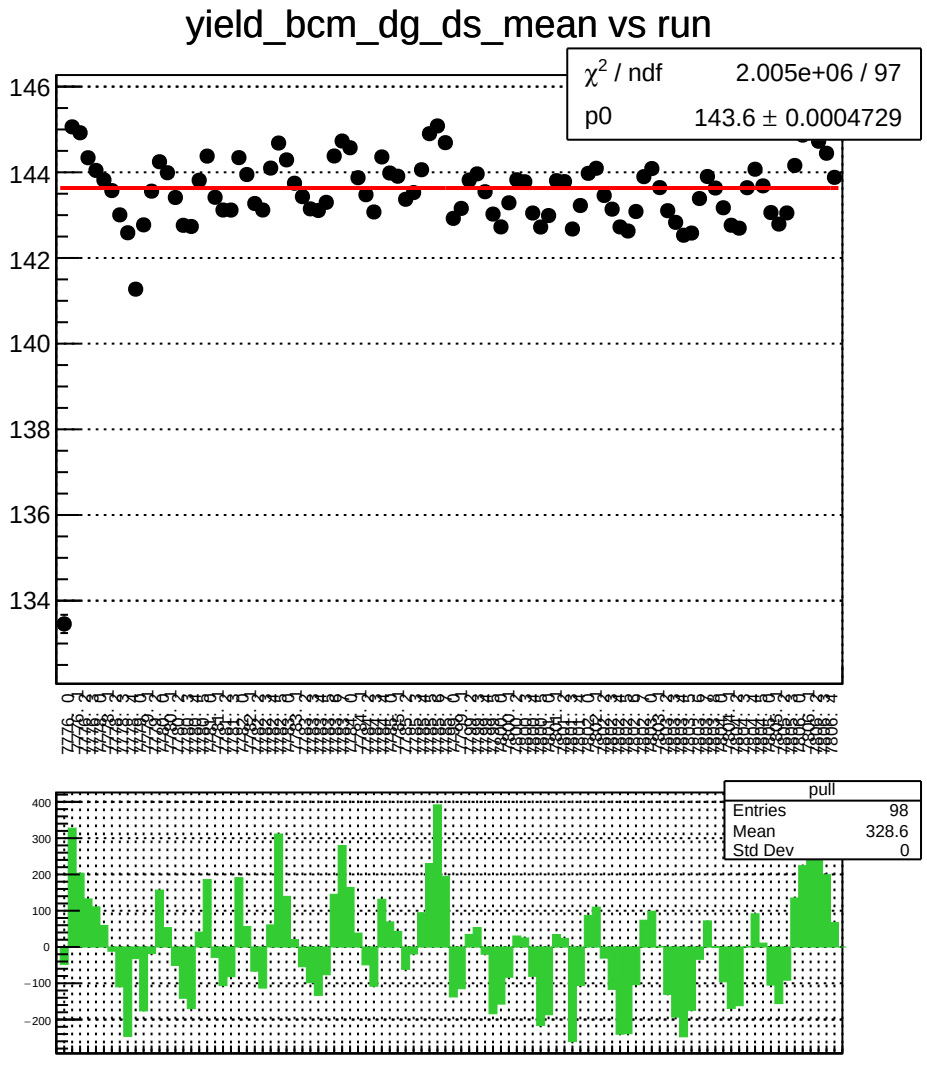

pull1D
Entries 98
Mean 2.508
Std Dev 3.041
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

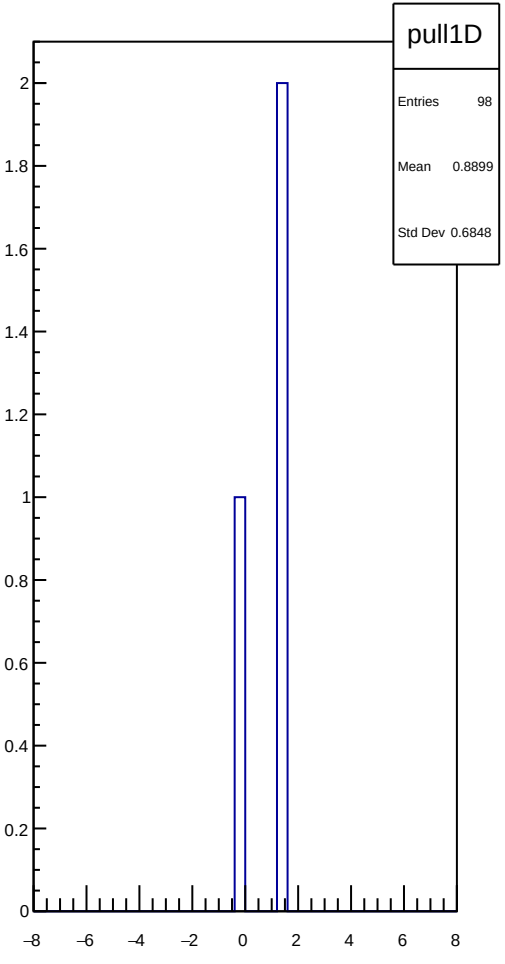

yield_bcm_an_us_rms vs run
χ² / ndf 8.662e+04 / 97
p0 0.4331 ± 0.0003179
20
18
16
14
12
10
8
6
4
2

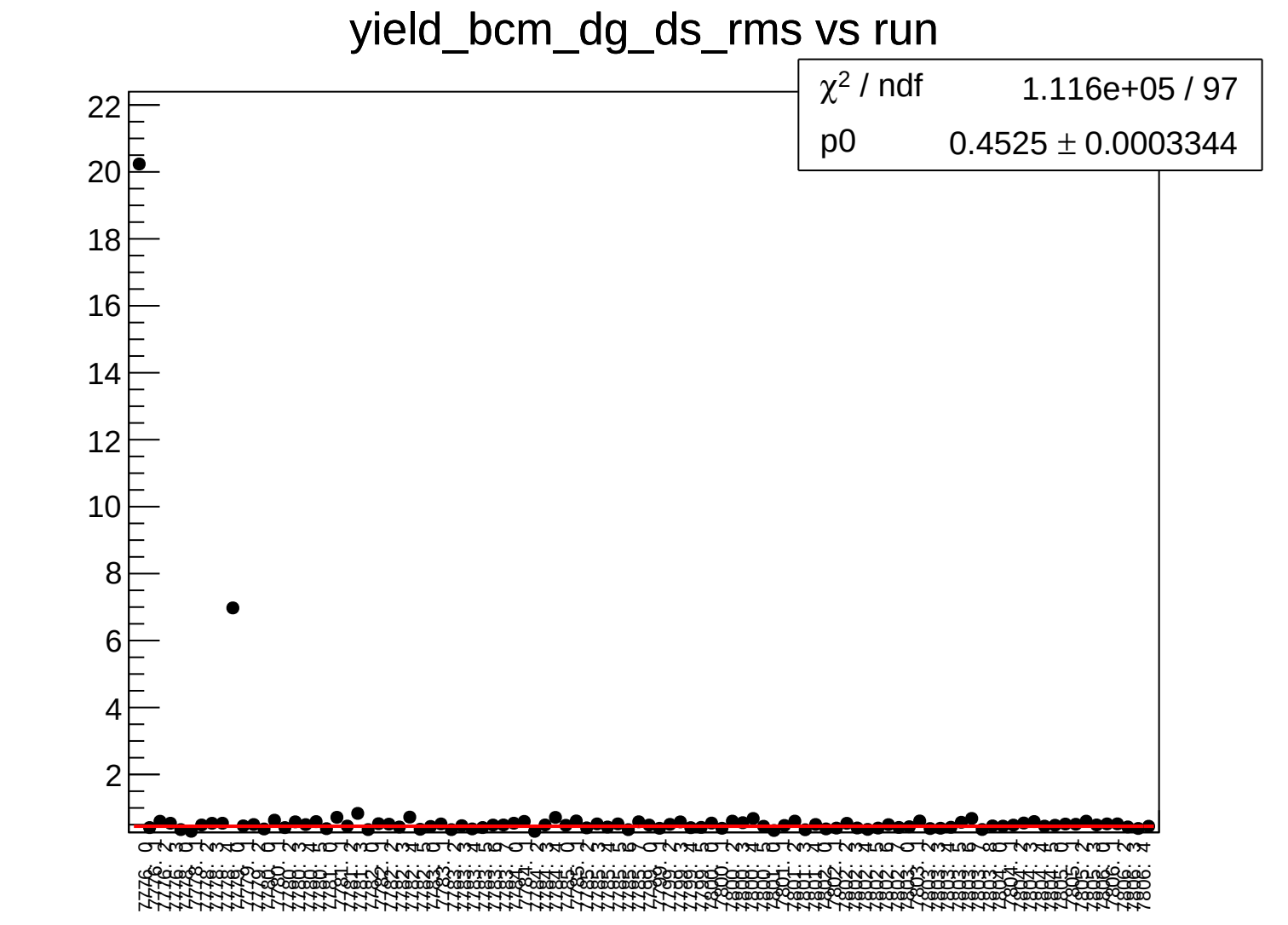

yield_bcm_dg_us_mean vs run
χ² / ndf 1.61e+06 / 97
p0 143.5 ± 0.0004662
146
144
142
140
138
136
134
132
pull
Entries 98
Mean 379.4
Std Dev 0
300
200
100
0
−100
−200

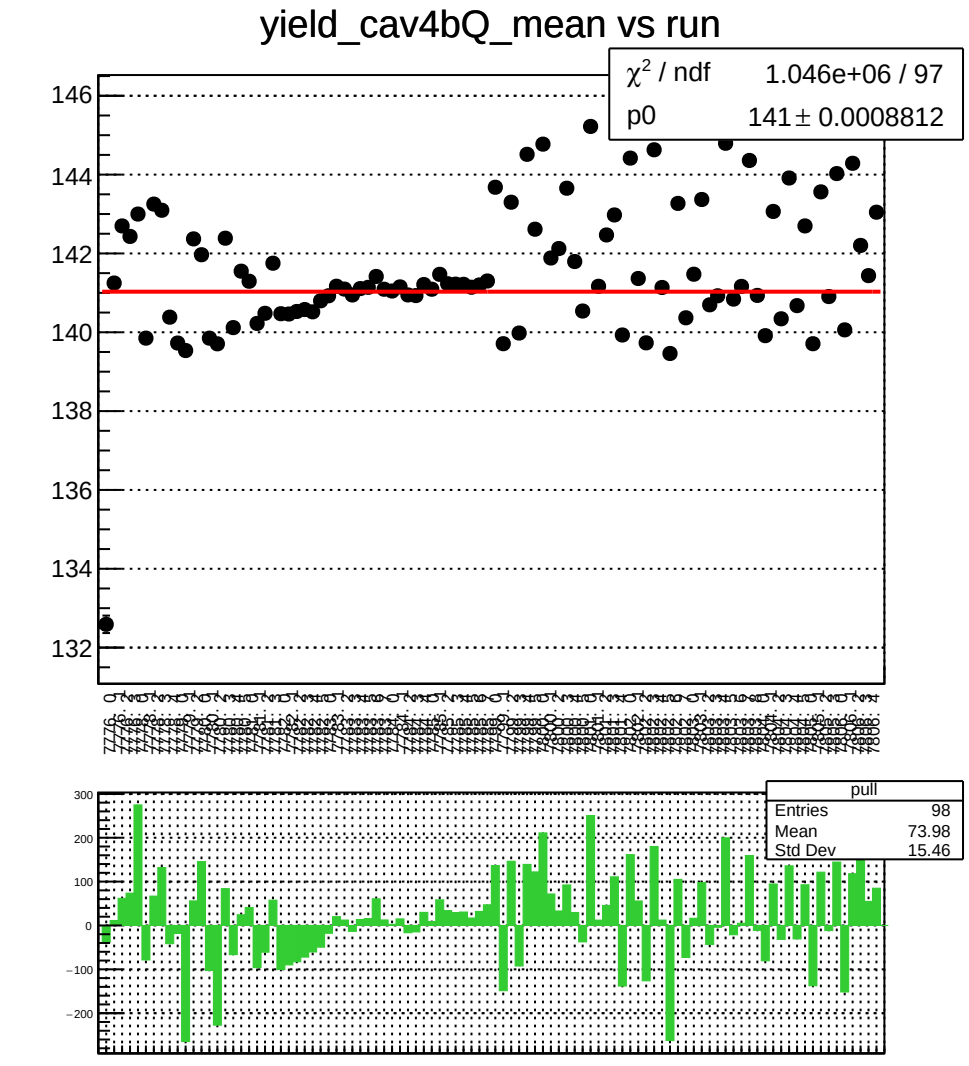

pull1D
Entries 98
Mean 0.02232
Std Dev 5.943
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

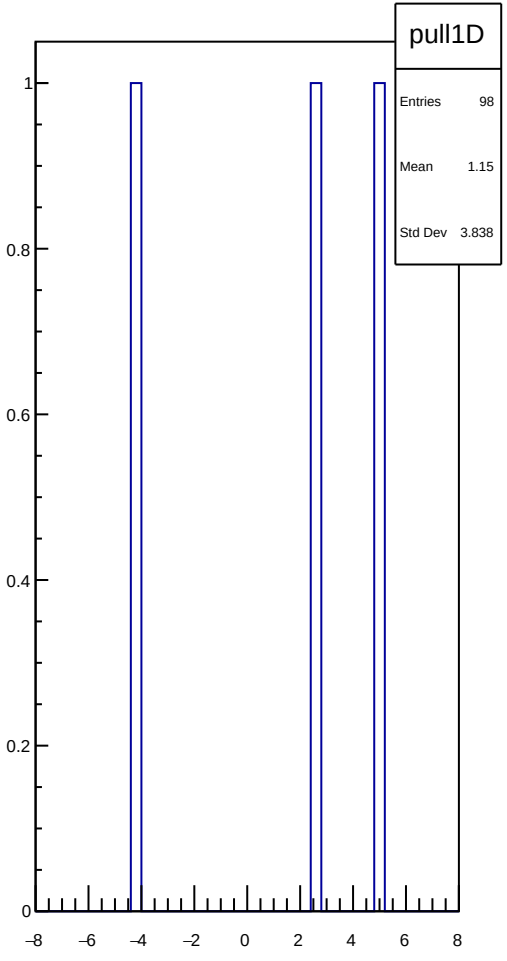

yield_bcm_dg_us_rms vs run
χ^2 / ndf 1.031e+05 / 97
p0 0.4471 ± 0.0003296
22
20
18
16
14
12
10
8
6
4
2

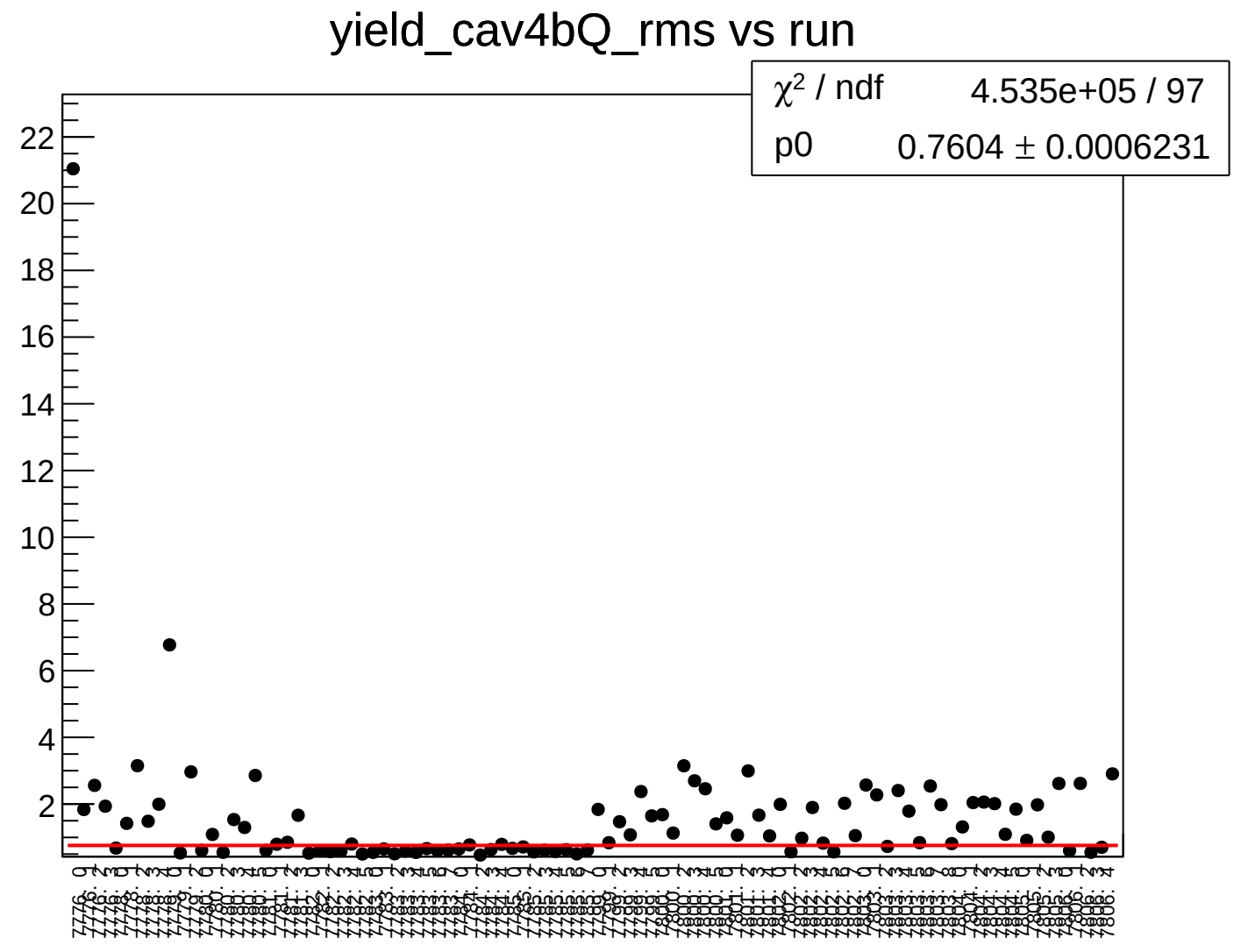

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.005e+06 / 97
p0 143.6 ± 0.0004729
146
144
142
140
138
136
134
pull
Entries 98
Mean 328.6
Std Dev 0
400
300
200
100
0
−100
−200

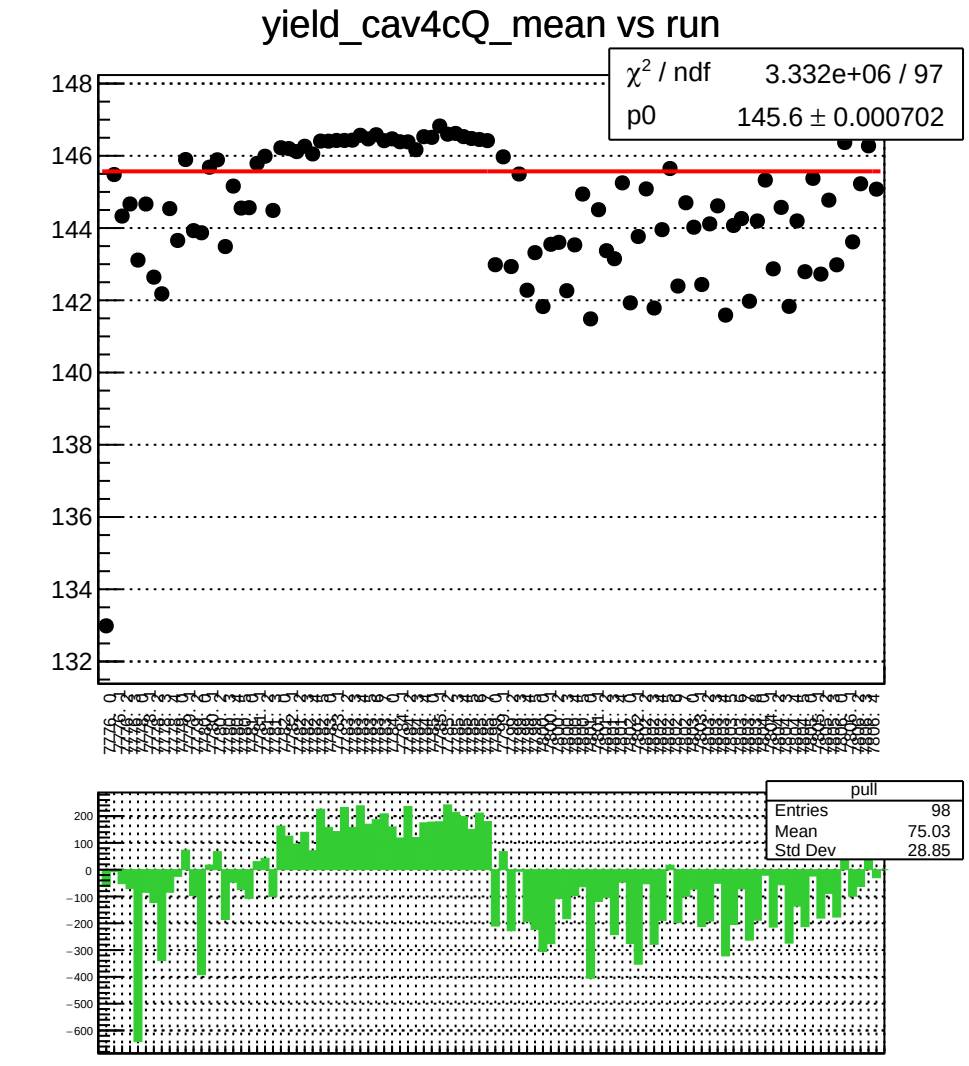

pull1D
Entries 98
Mean 0.8899
Std Dev 0.6848
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

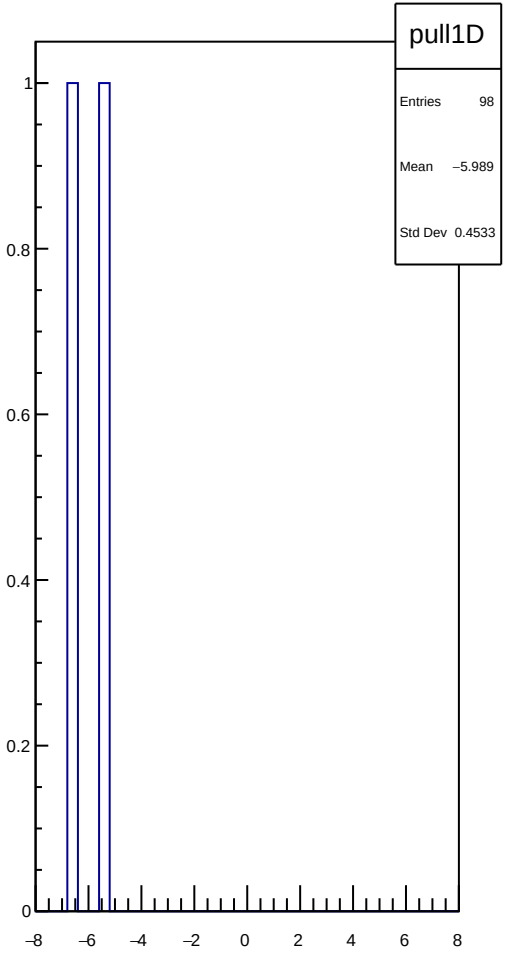

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.116e+05 / 97
p0 0.4525 ± 0.0003344
22
20
18
16
14
12
10
8
6
4
2

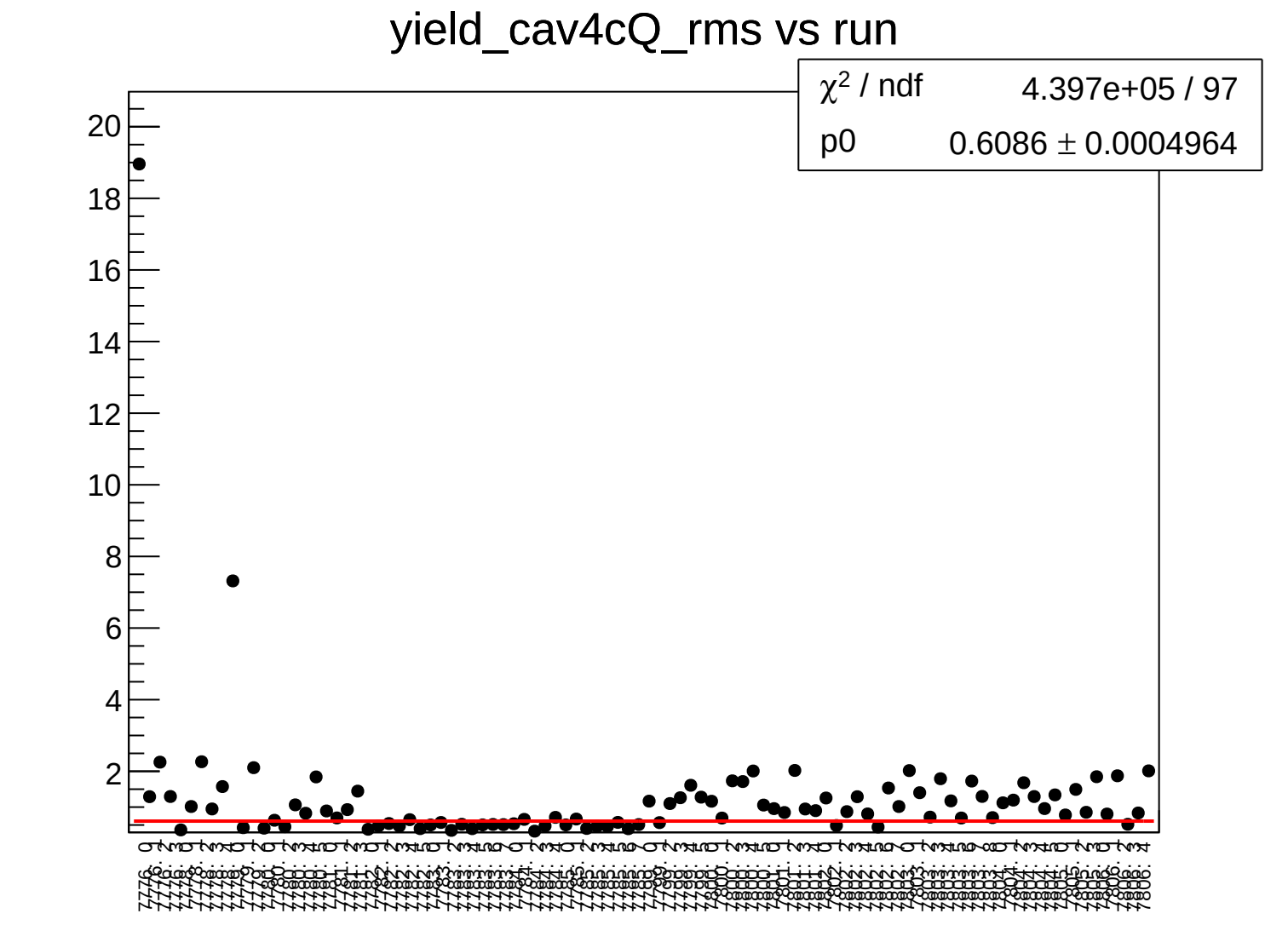

yield_cav4bQ_mean vs run
χ² / ndf 1.046e+06 / 97
p0 141 ± 0.0008812
146
144
142
140
138
136
134
132
pull
Entries 98
Mean 73.98
Std Dev 15.46
300
200
100
0
−100
−200

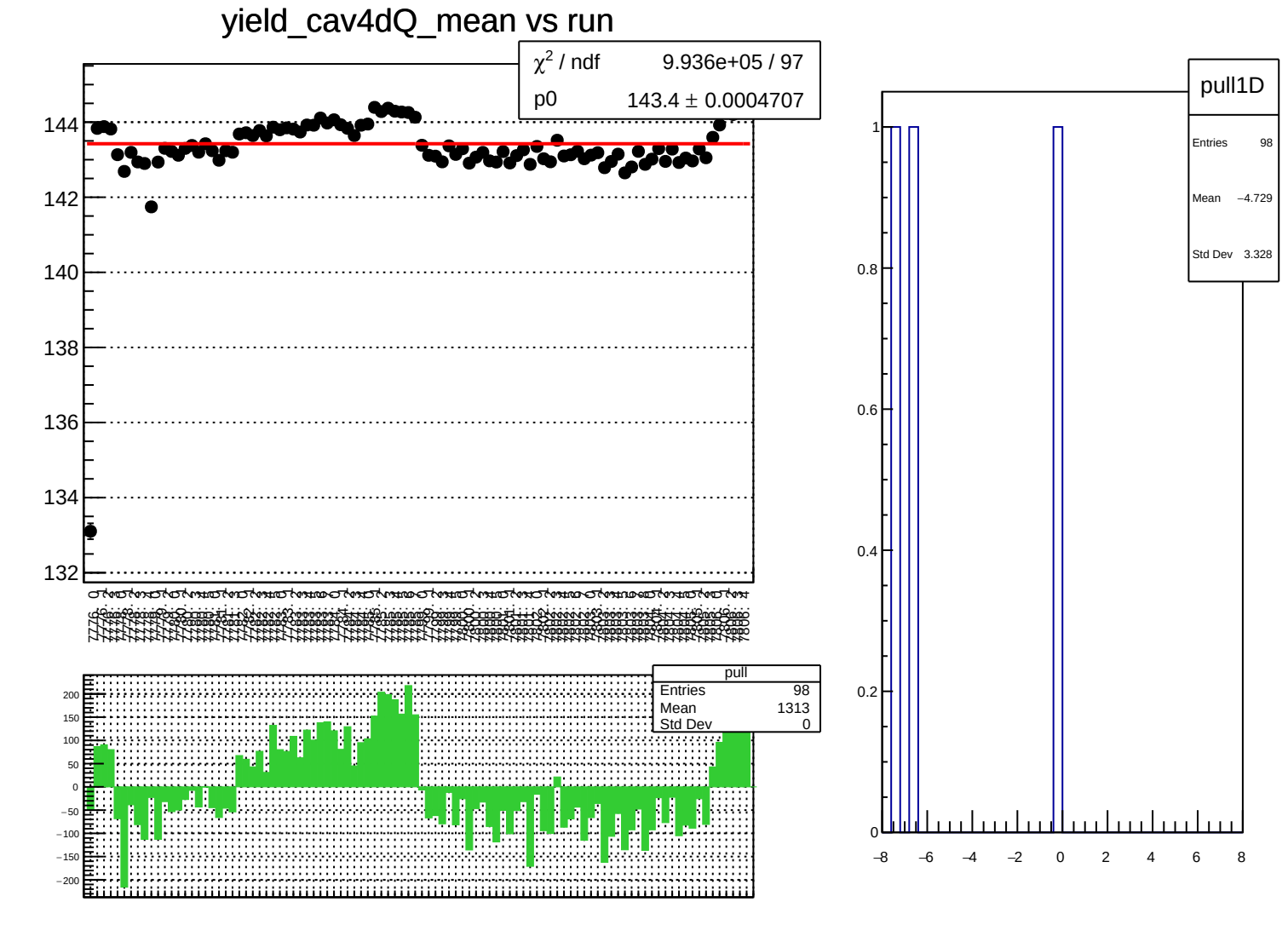

pull1D
Entries 98
Mean 1.15
Std Dev 3.838
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

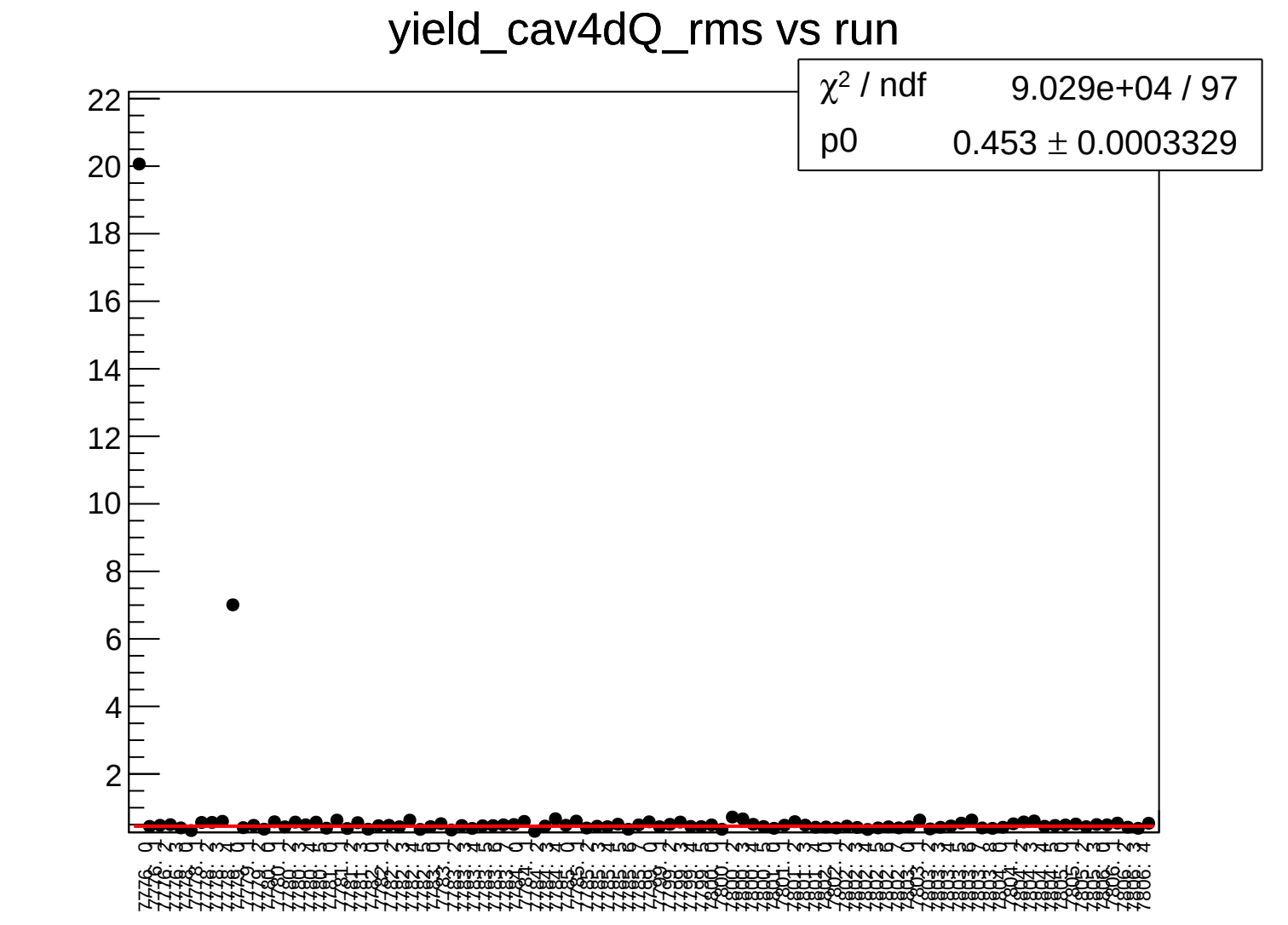

yield_cav4bQ_rms vs run
χ² / ndf 4.535e+05 / 97
p0 0.7604 ± 0.0006231
22
20
18
16
14
12
10
8
6
4
2

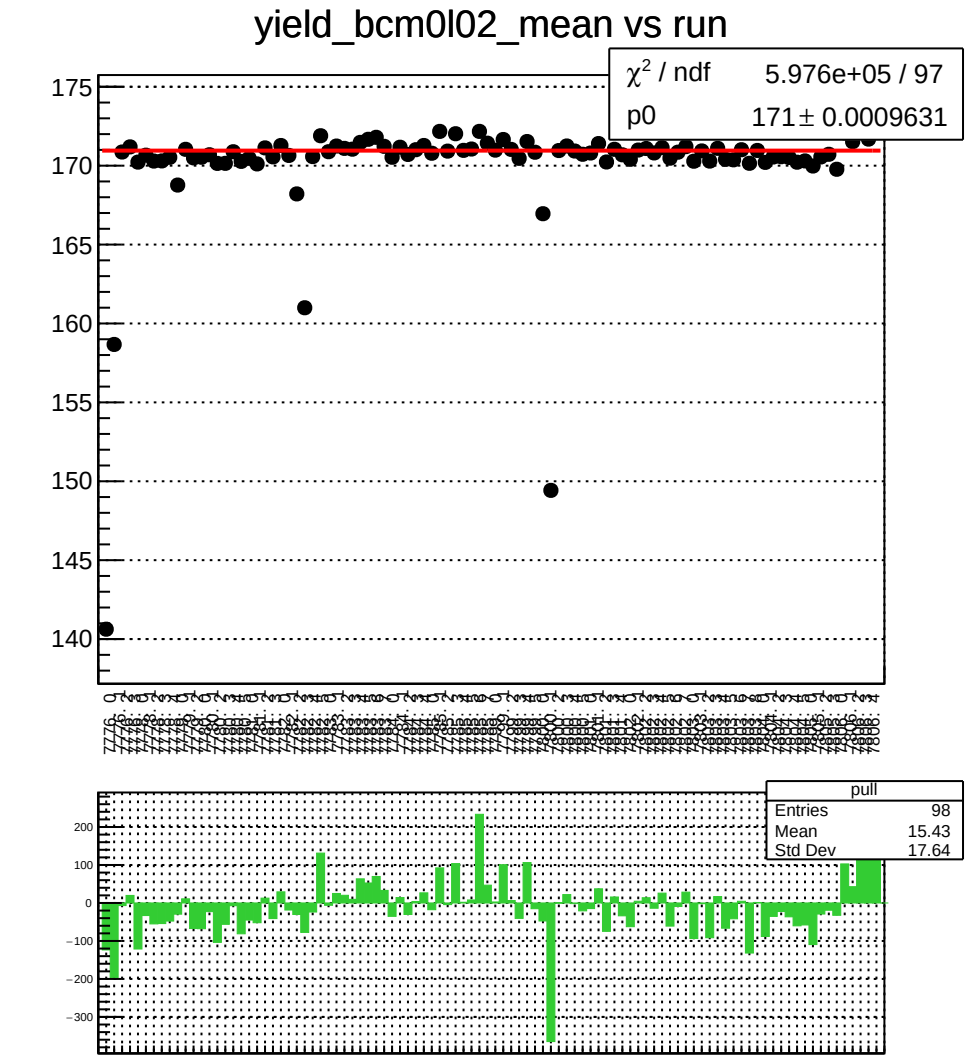

yield_cav4cQ_mean vs run
χ² / ndf 3.332e+06 / 97
p0 145.6 ± 0.000702
148
146
144
142
140
138
136
134
132
pull
Entries 98
Mean 75.03
Std Dev 28.85
200
100
0
−100
−200
−300
−400
−500
−600

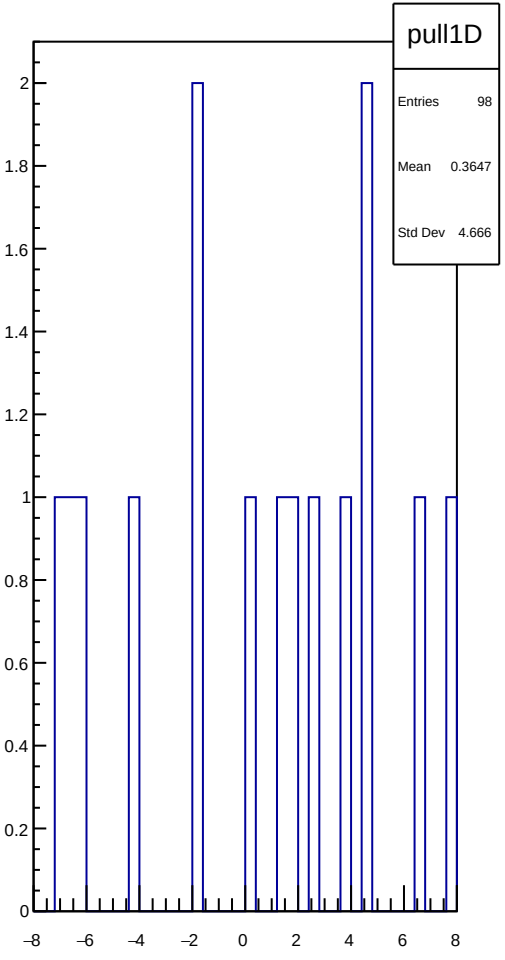

pull1D
Entries 98
Mean −5.989
Std Dev 0.4533
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

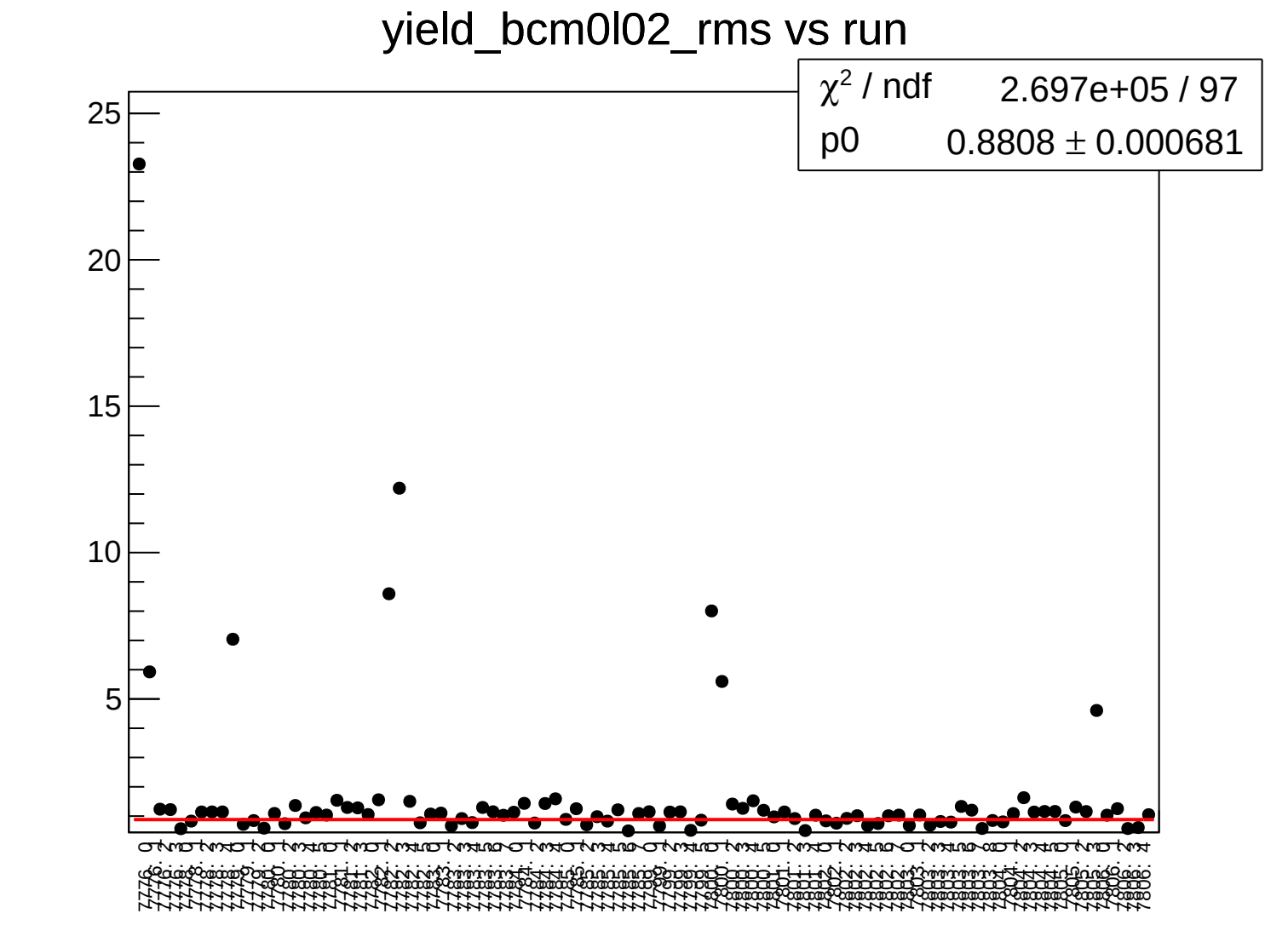

yield_cav4cQ_rms vs run
χ² / ndf 4.397e+05 / 97
p0 0.6086 ± 0.0004964
20
18
16
14
12
10
8
6
4
2

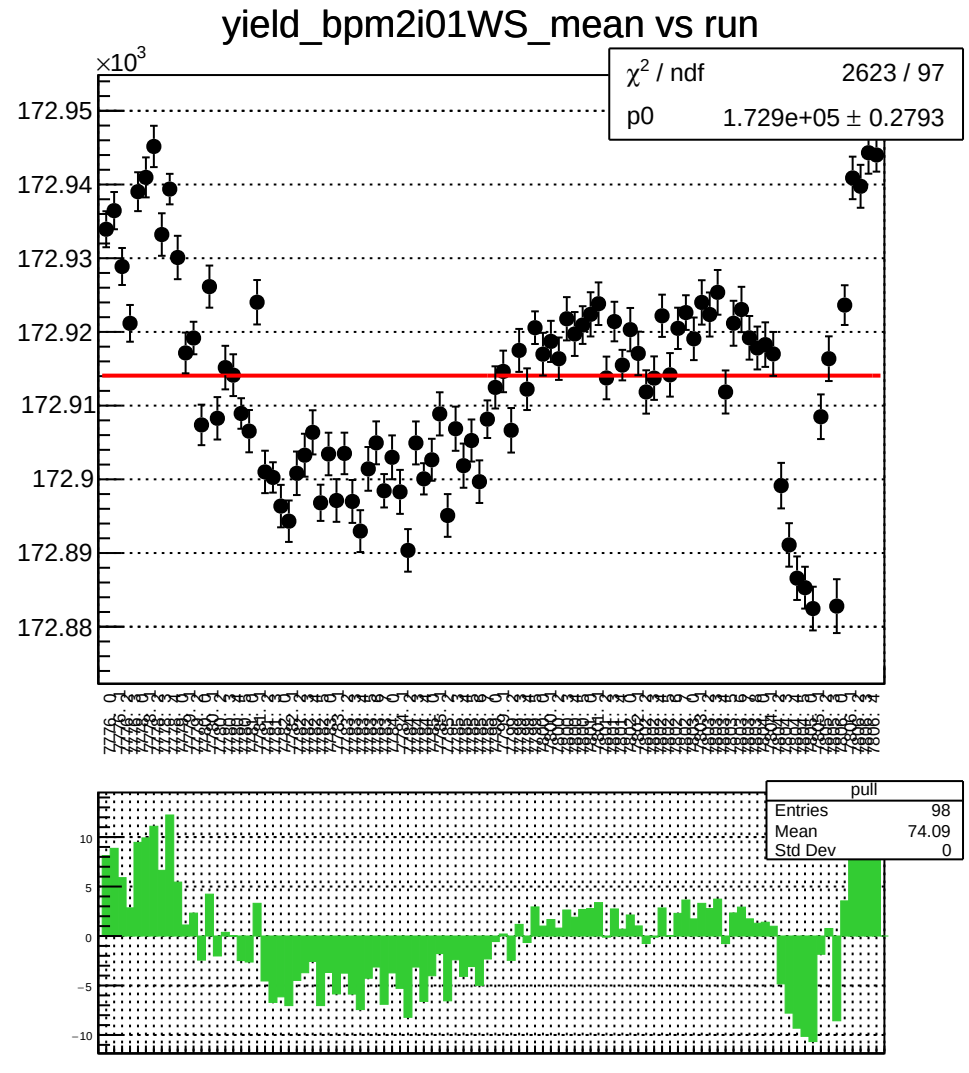

yield_cav4dQ_mean vs run
χ² / ndf 9.936e+05 / 97
p0 143.4 ± 0.0004707
144
142
140
138
136
134
132
pull
Entries 98
Mean 1313
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 98
Mean −4.729
Std Dev 3.328
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

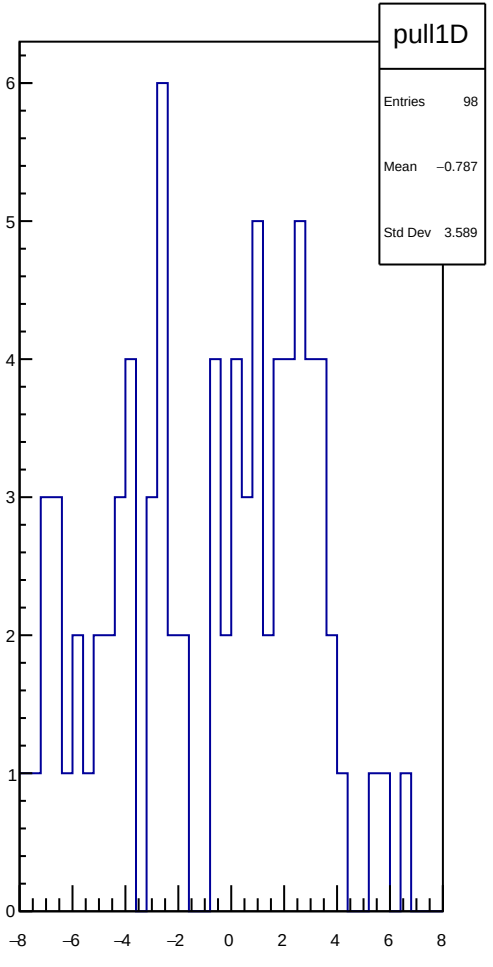

yield_cav4dQ_rms vs run
χ² / ndf 9.029e+04 / 97
p0 0.453 ± 0.0003329
22
20
18
16
14
12
10
8
6
4
2

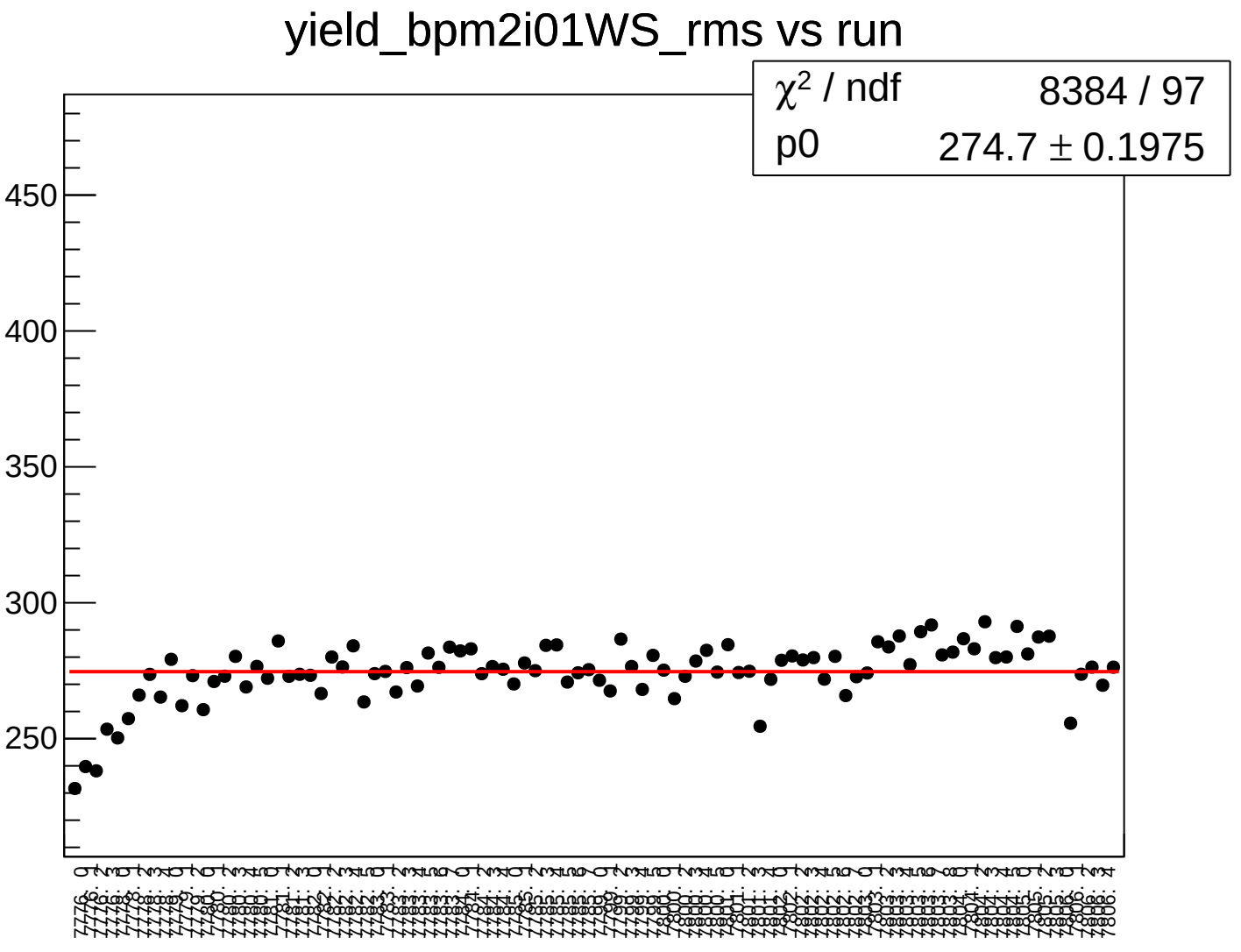

yield_bcm0l02_mean vs run
χ² / ndf 5.976e+05 / 97
p0 171 ± 0.0009631
175
170
165
160
155
150
145
140
pull
Entries 98
Mean 15.43
Std Dev 17.64
200
100
0
−100
−200
−300

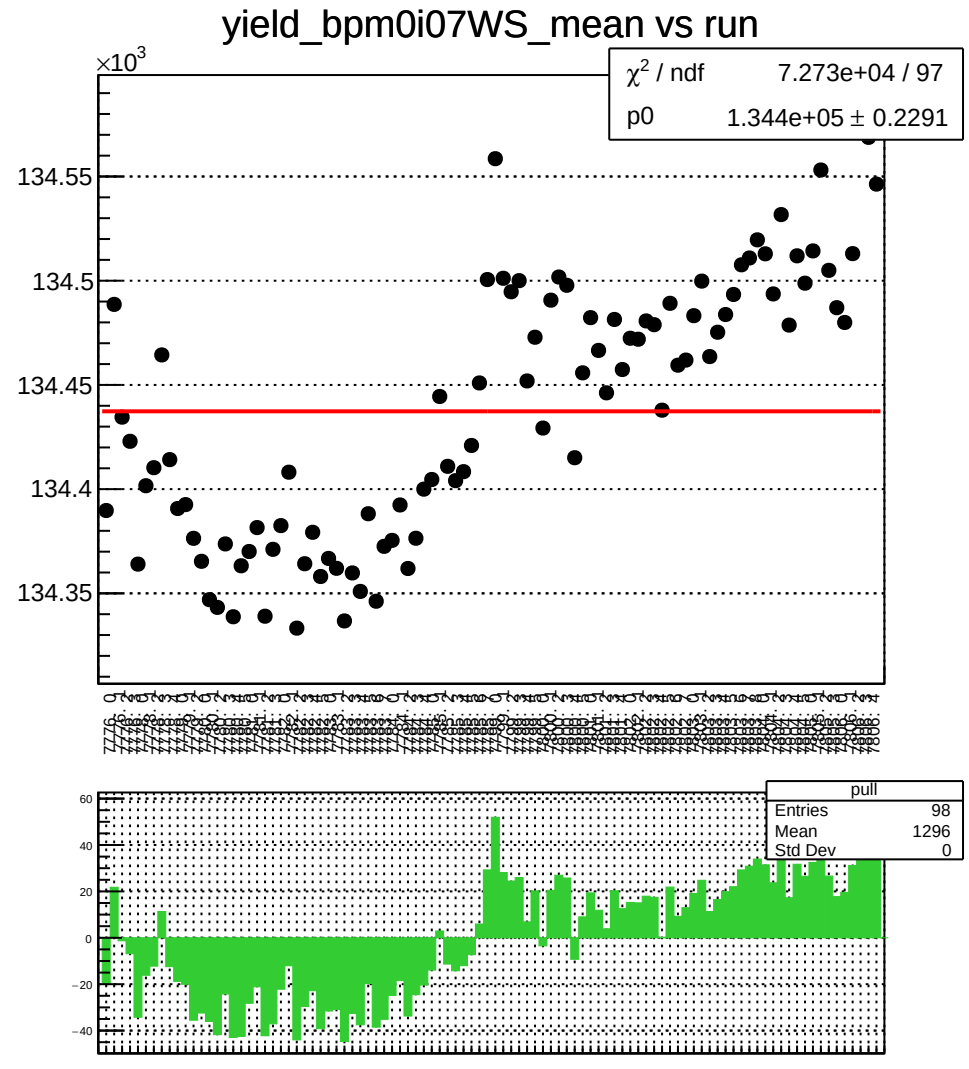

pull1D
Entries 98
Mean 0.3647
Std Dev 4.666
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

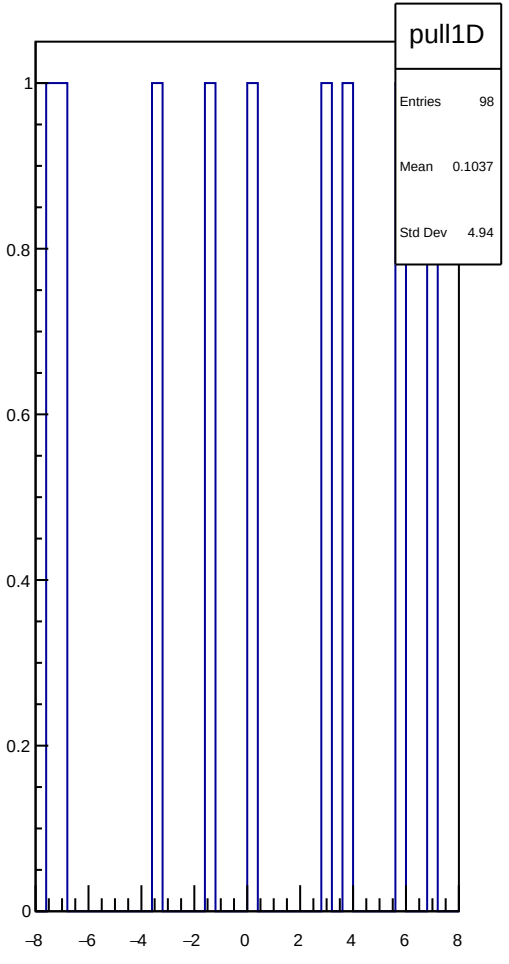

yield_bcm0l02_rms vs run
χ^2 / ndf 2.697e+05 / 97
p0 0.8808 ± 0.000681
25
20
15
10
5

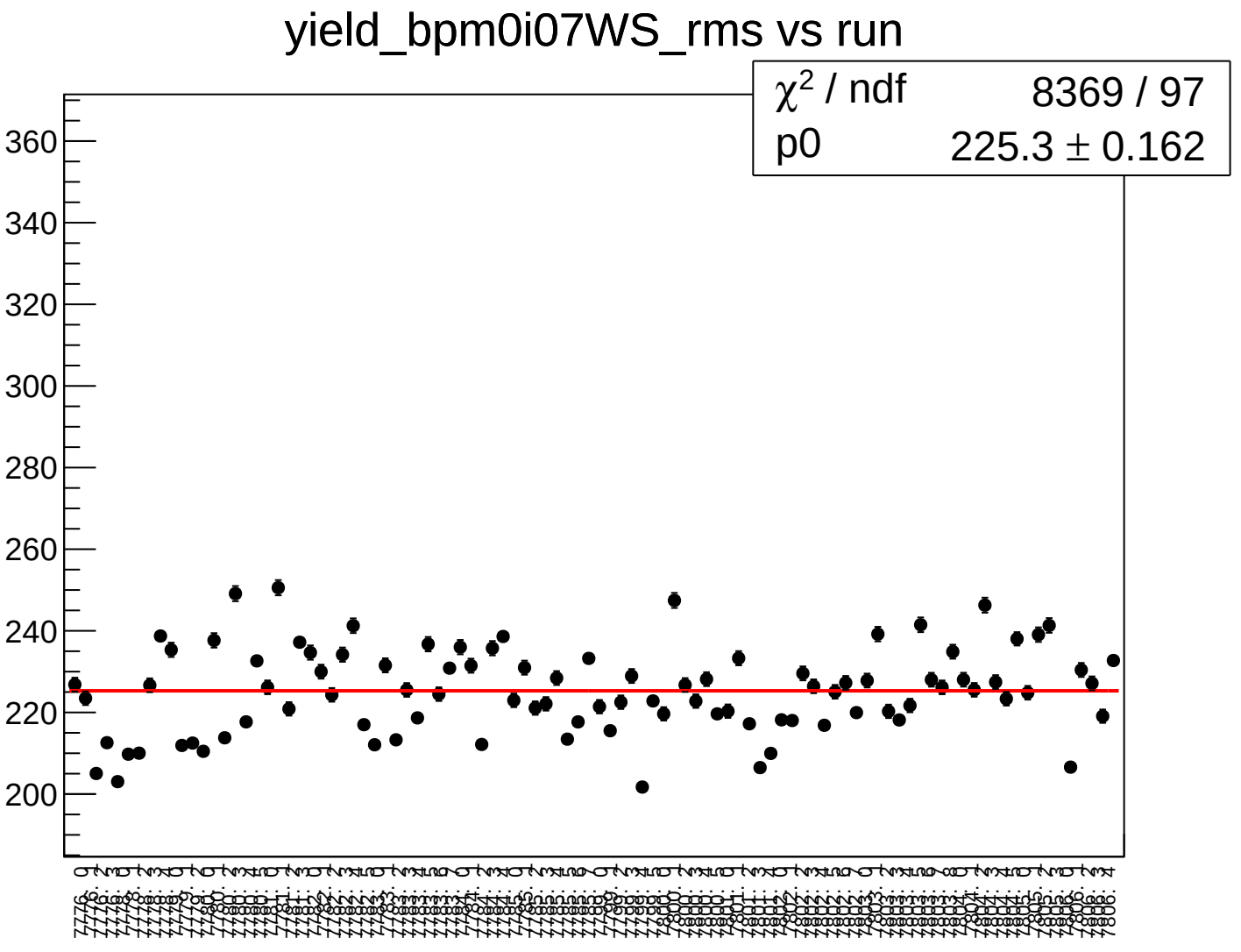

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2623 / 97
p0 1.729e+05 ± 0.2793
172.95
172.94
172.93
172.92
172.91
172.9
172.89
172.88
pull
Entries 98
Mean 74.09
Std Dev 0
10
5
0
−5
−10

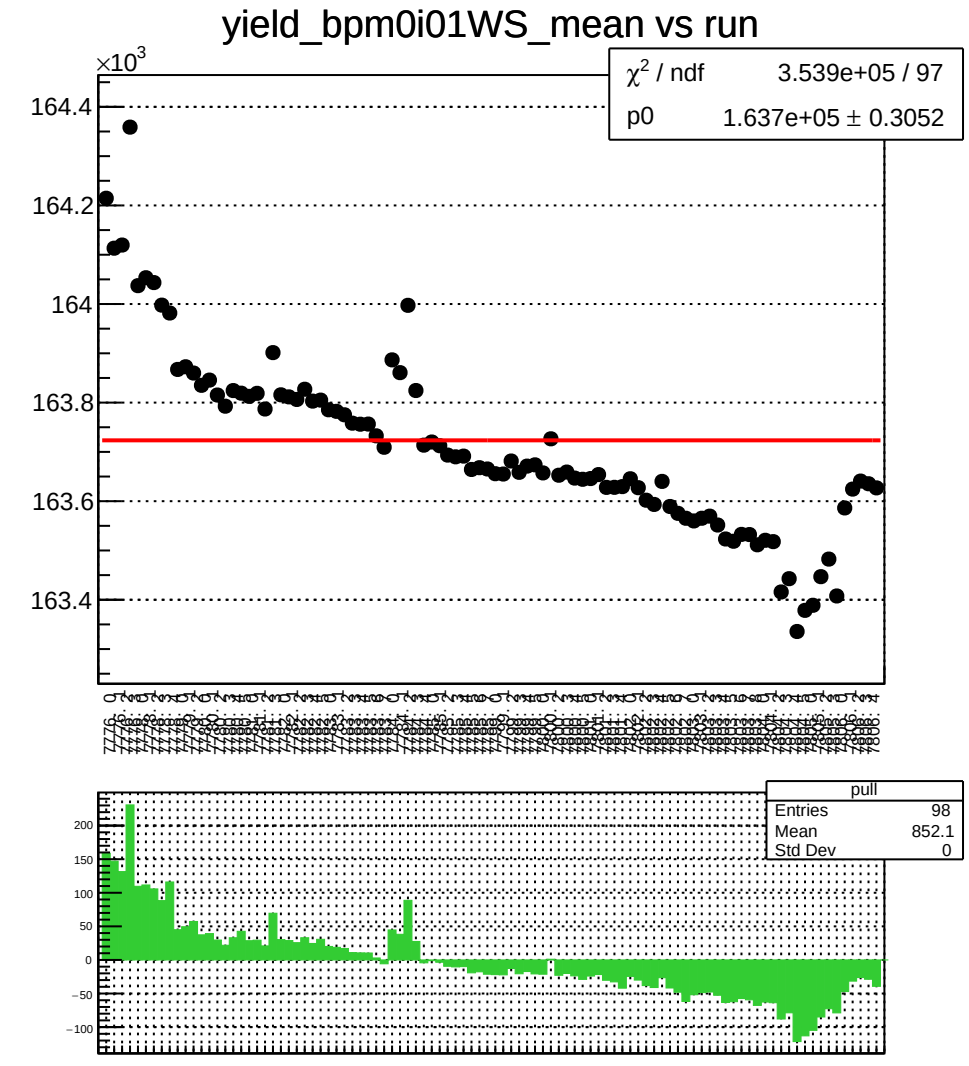

pull1D
Entries 98
Mean −0.787
Std Dev 3.589
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

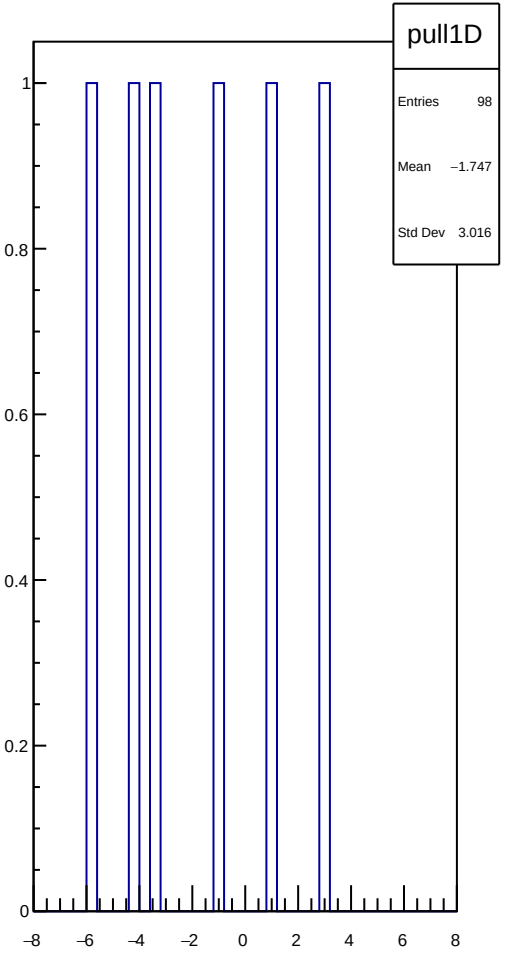

yield_bpm2i01WS_rms vs run
χ² / ndf 8384 / 97
p0 274.7 ± 0.1975
450
400
350
300
250

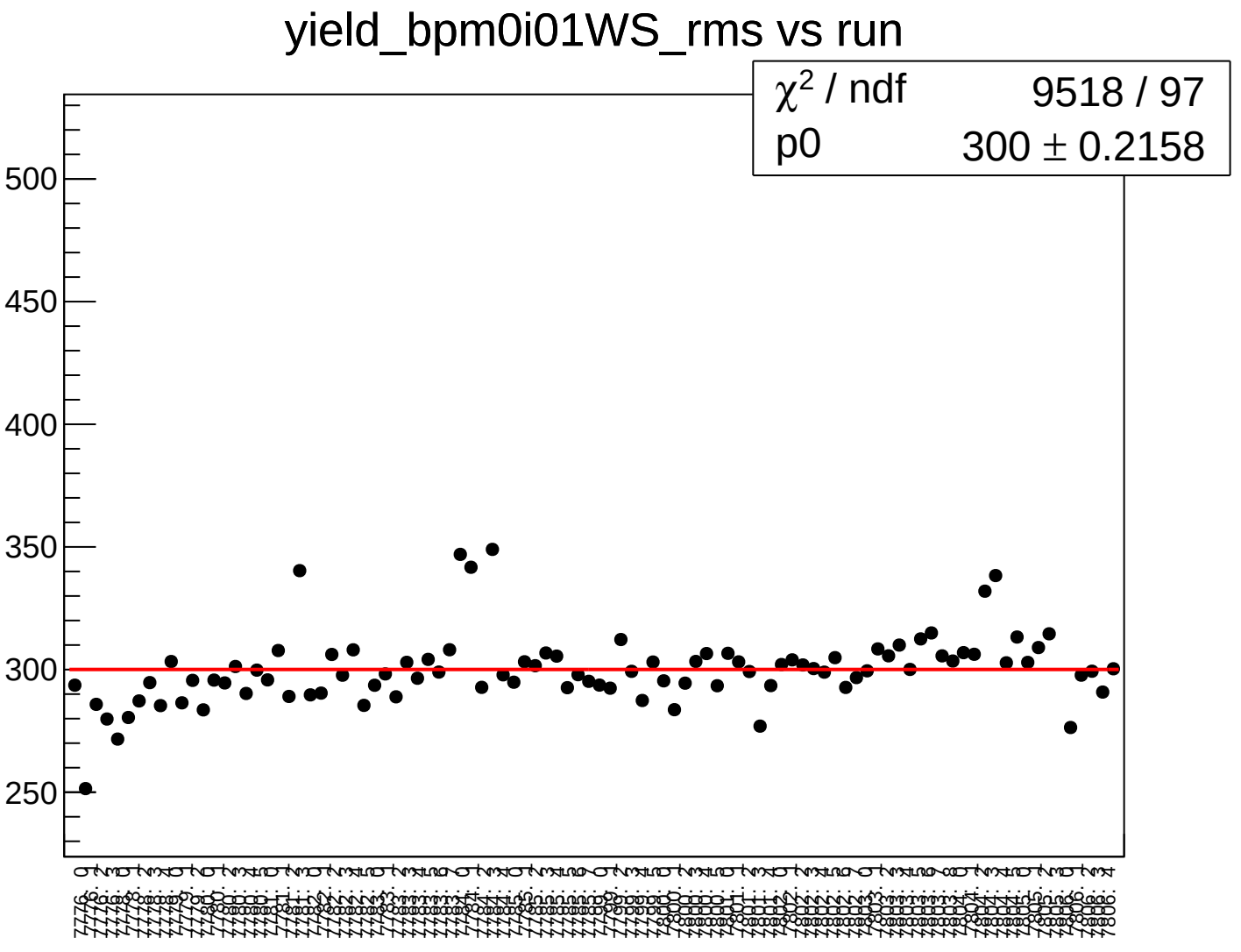

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 7.273e+04 / 97
p0 1.344e+05 ± 0.2291
134.55
134.5
134.45
134.4
134.35
pull
Entries 98
Mean 1296
Std Dev 0
60
40
20
0
−20
−40

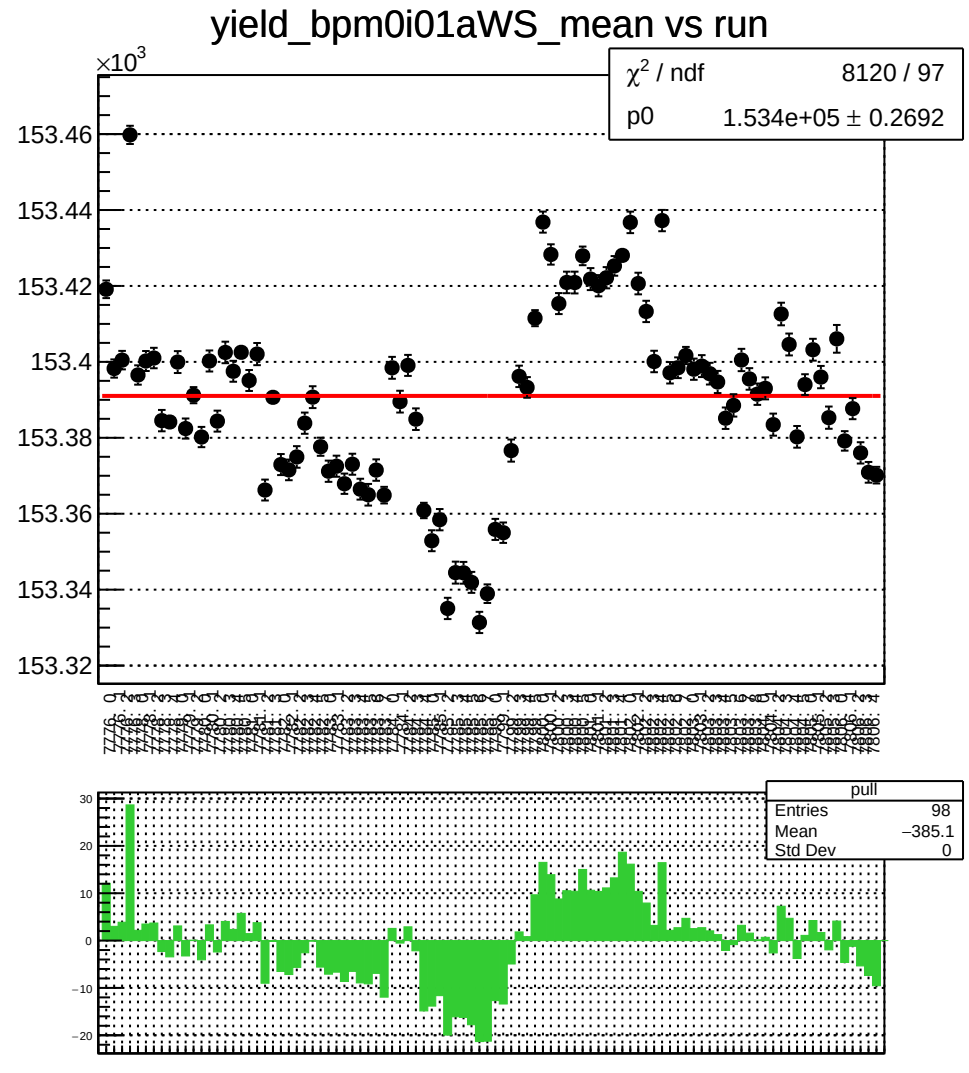

pull1D
Entries 98
Mean 0.1037
Std Dev 4.94
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

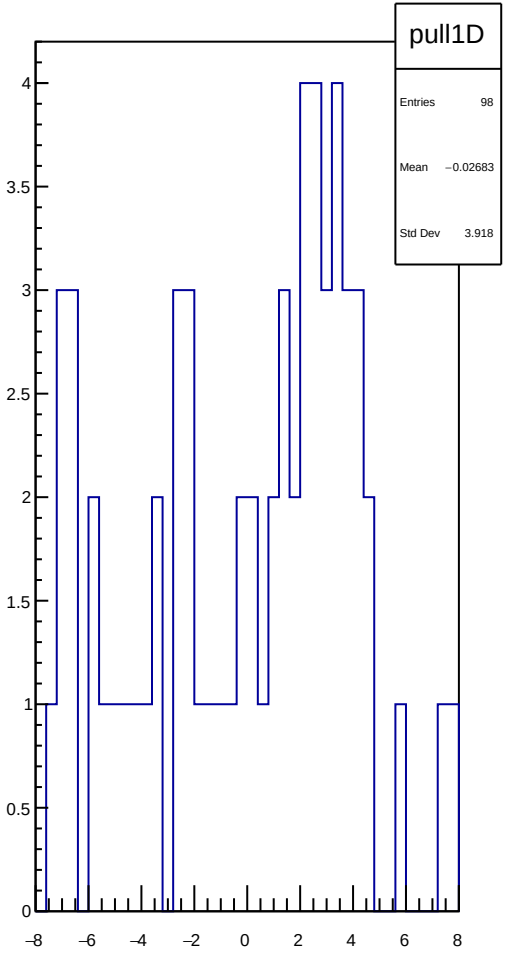

yield_bpm0i07WS_rms vs run
χ² / ndf 8369 / 97
p0 225.3 ± 0.162
360
340
320
300
280
260
240
220
200

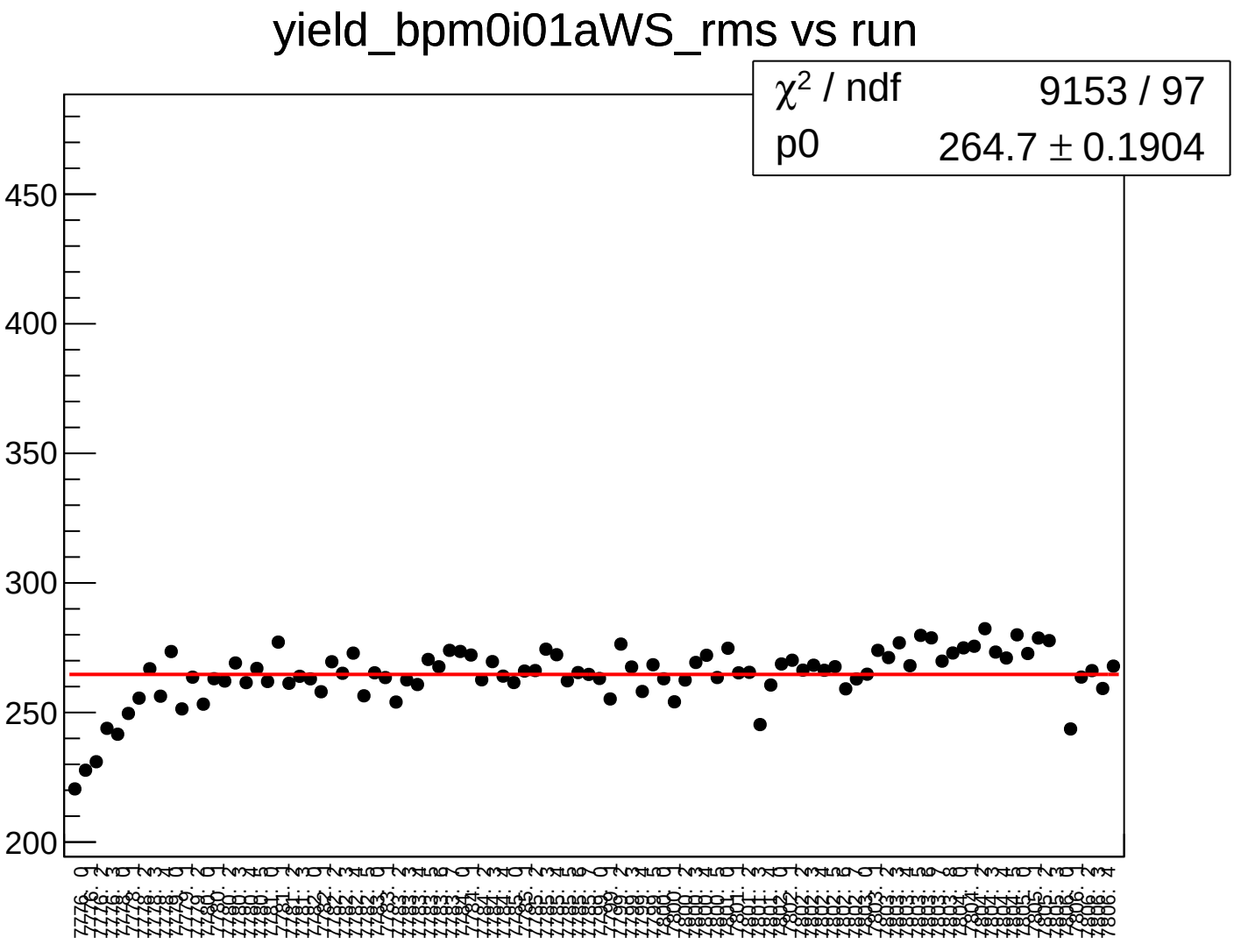

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 3.539e+05 / 97
p0 1.637e+05 ± 0.3052
164.4
164.2
164
163.8
163.6
163.4
pull
Entries 98
Mean 852.1
Std Dev 0
200
150
100
50
0
−50
−100

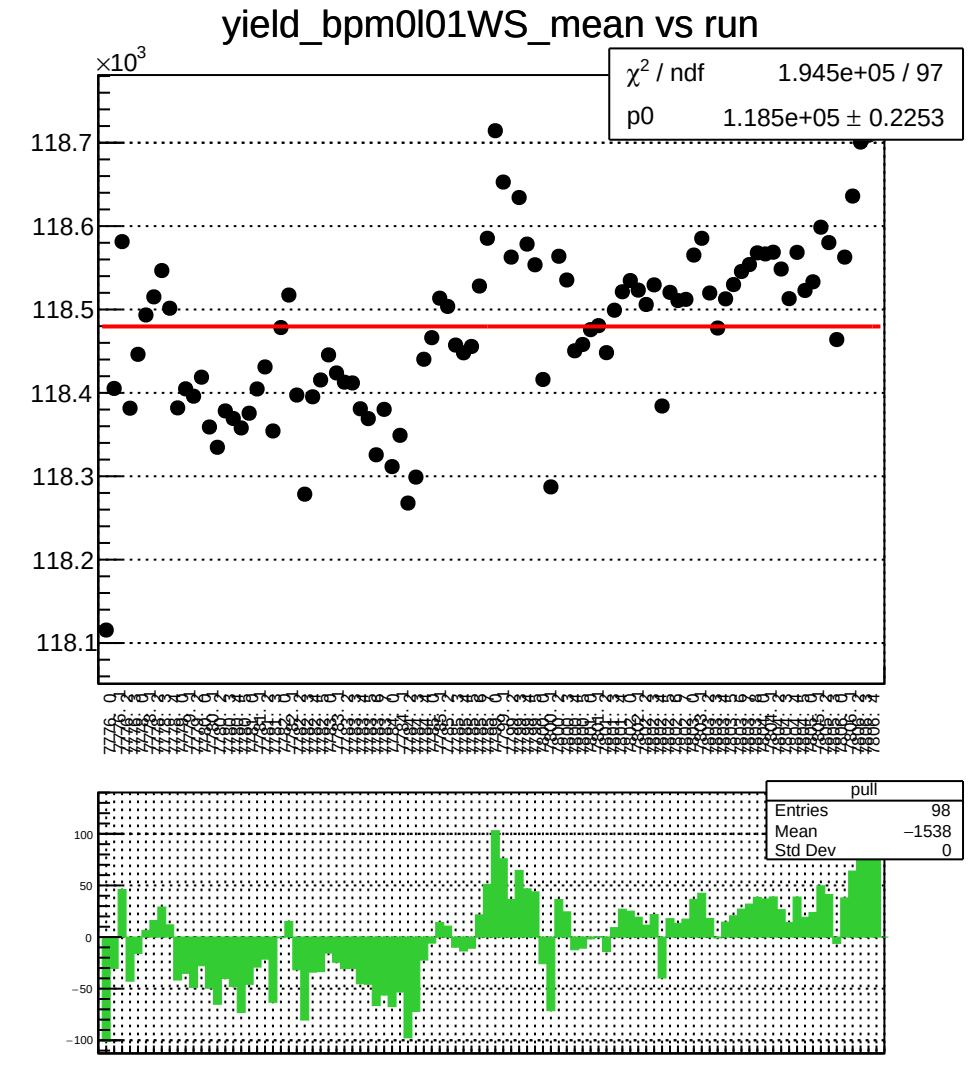

pull1D
Entries 98
Mean −1.747
Std Dev 3.016
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

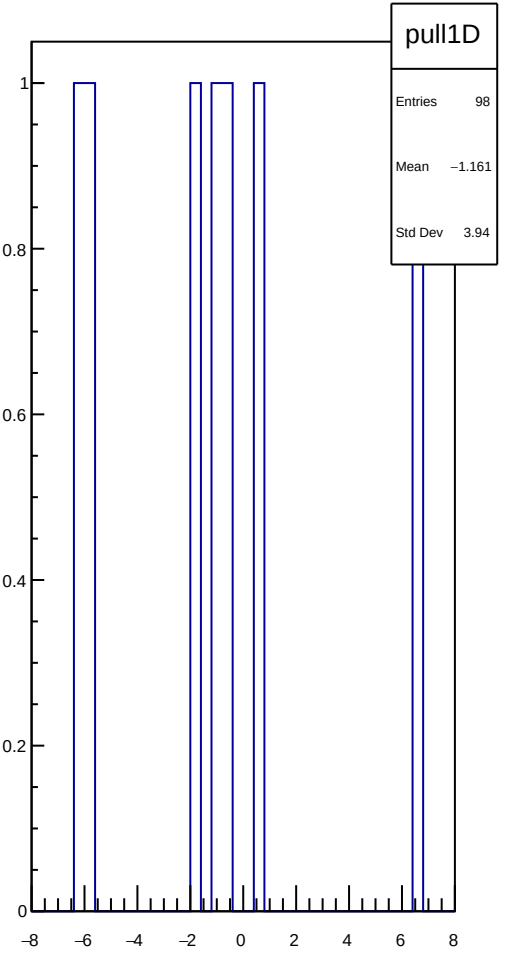

yield_bpm0i01WS_rms vs run
χ² / ndf 9518 / 97
p0 300 ± 0.2158
500
450
400
350
300
250

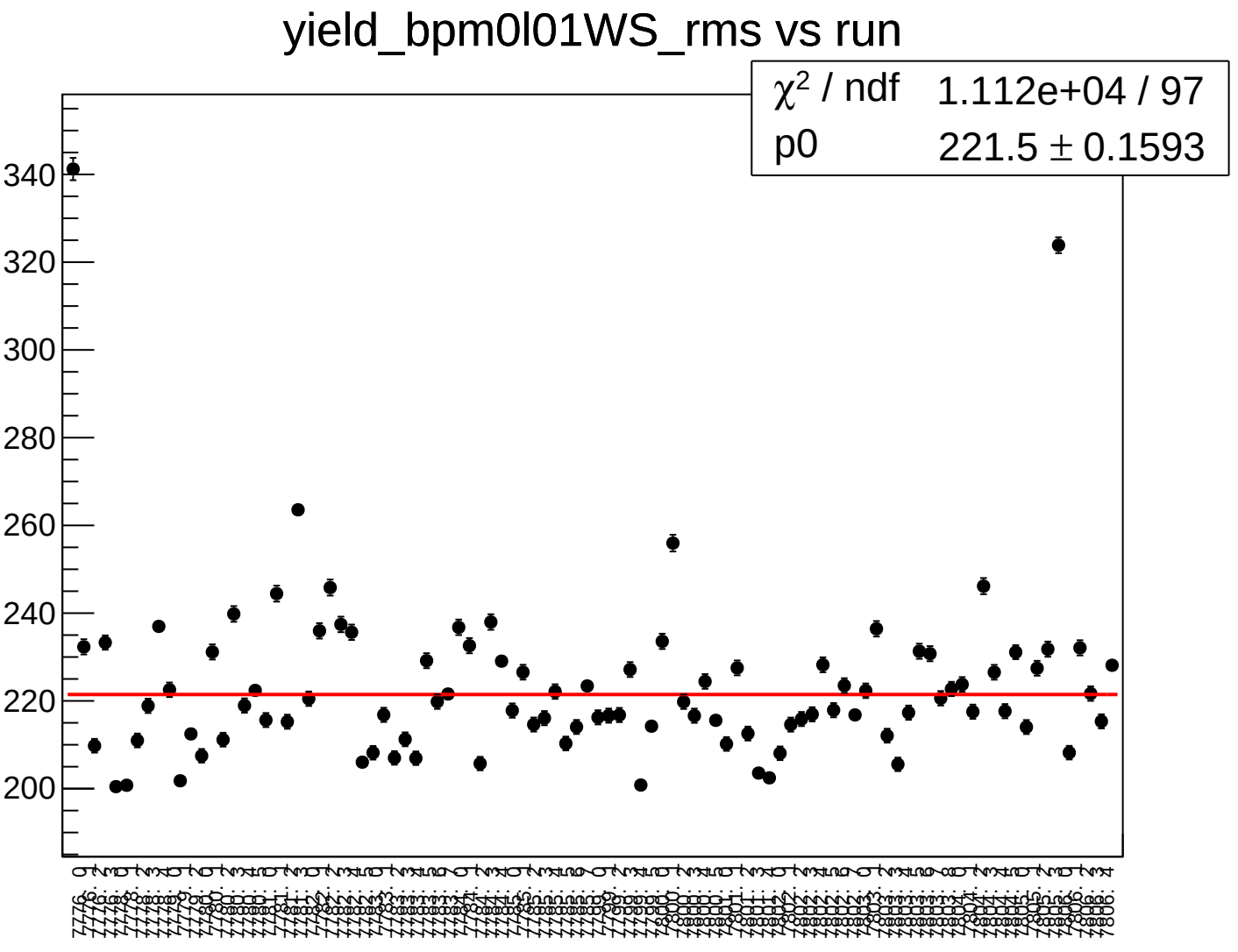

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 8120 / 97
p0 1.534e+05 ± 0.2692
153.46
153.44
153.42
153.4
153.38
153.36
153.34
153.32
pull
Entries 98
Mean −385.1
Std Dev 0
30
20
10
0
−10
−20

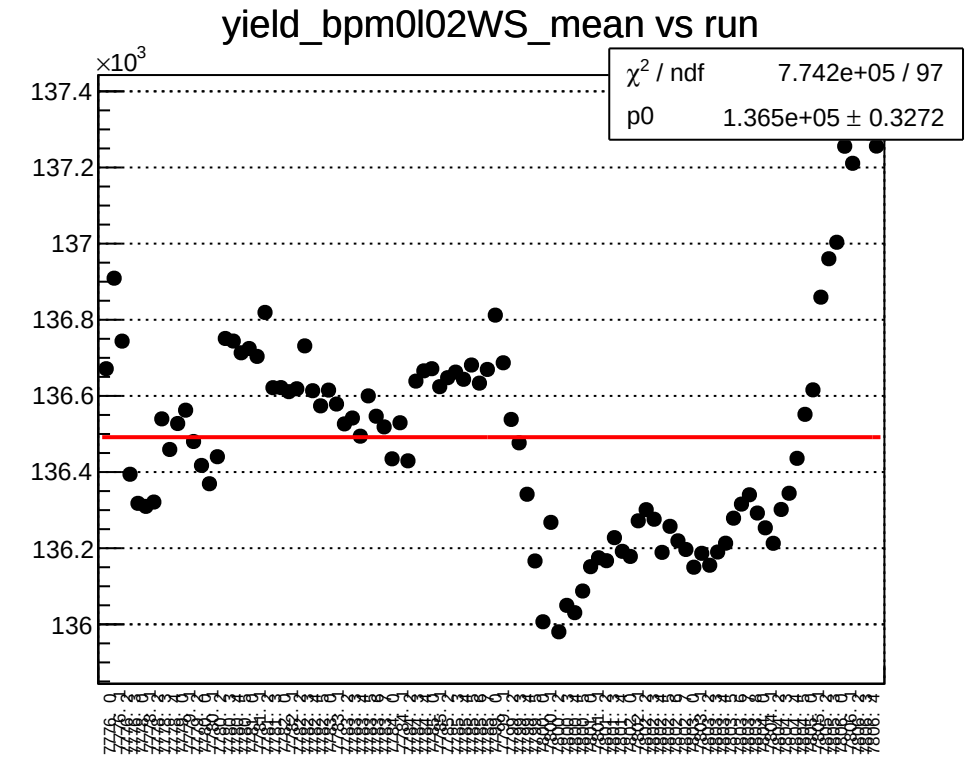

pull1D
Entries 98
Mean −0.02683
Std Dev 3.918
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

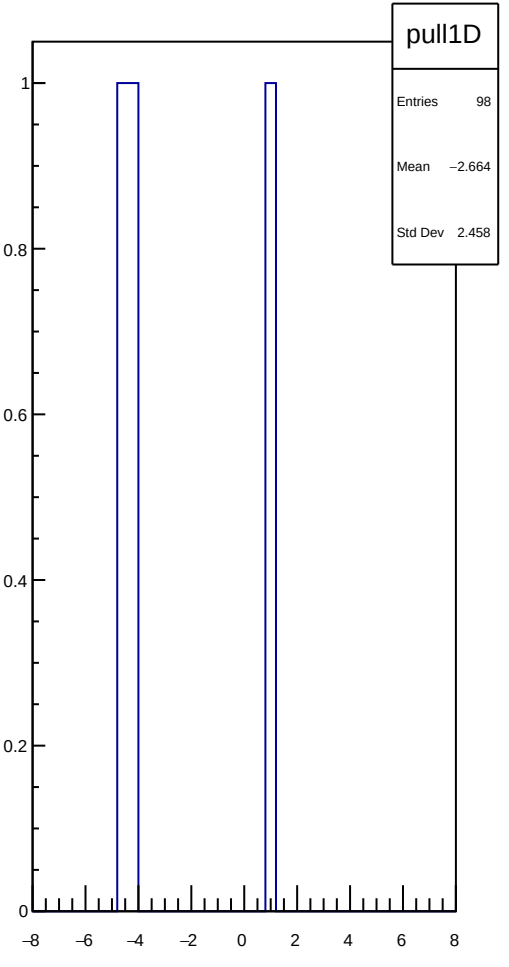

yield_bpm0i01aWS_rms vs run
χ² / ndf 9153 / 97
p0 264.7 ± 0.1904
450
400
350
300
250
200

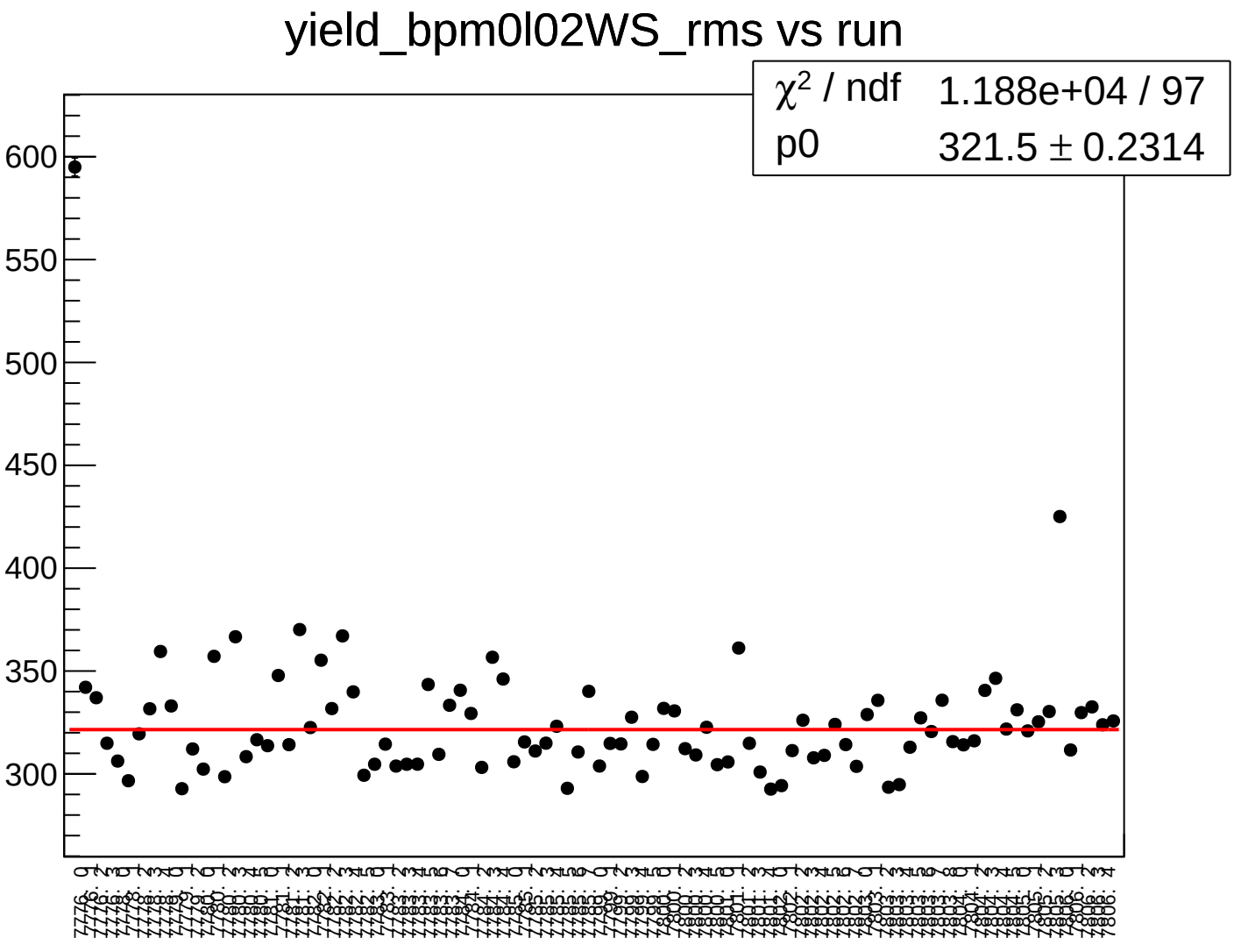

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 1.945e+05 / 97
p0 1.185e+05 ± 0.2253
118.7
118.6
118.5
118.4
118.3
118.2
118.1
pull
Entries 98
Mean −1538
Std Dev 0
100
50
0
−50
−100

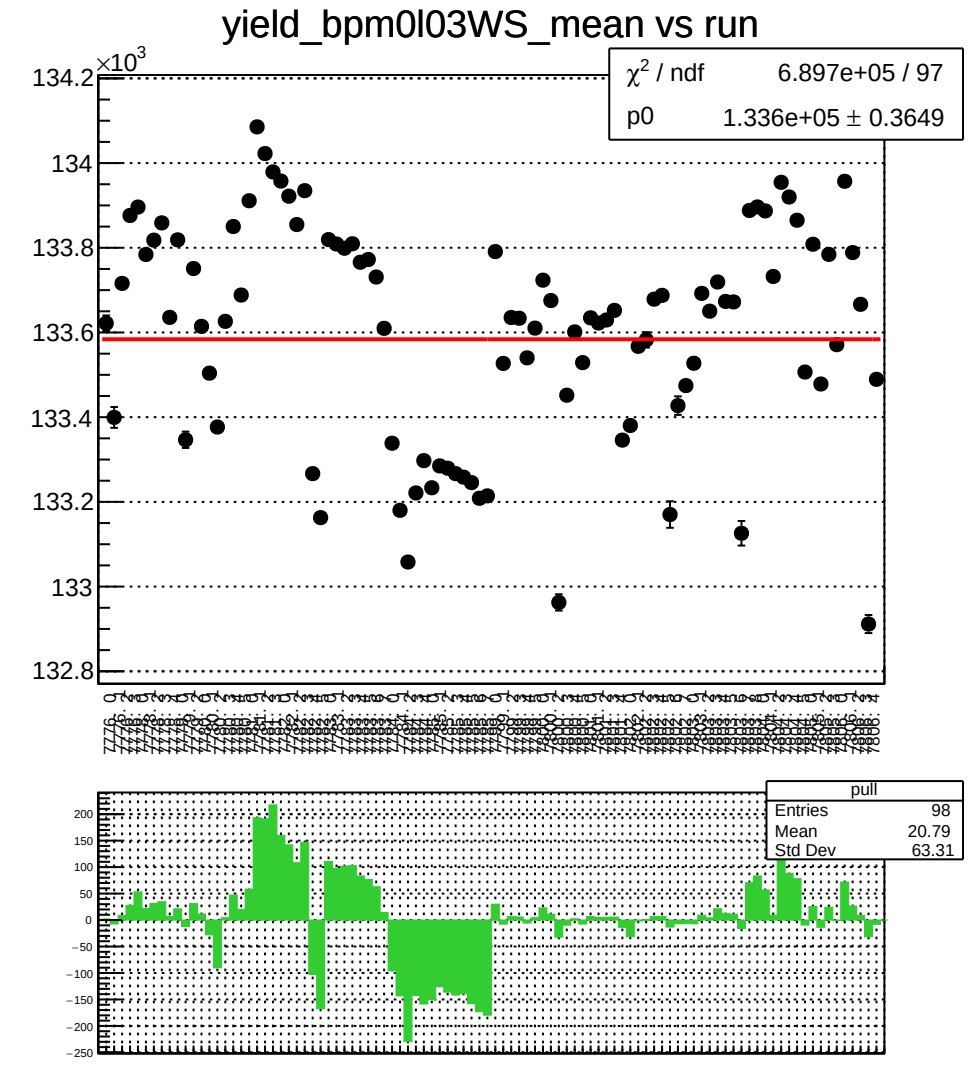

pull1D
Entries 98
Mean −1.161
Std Dev 3.94
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

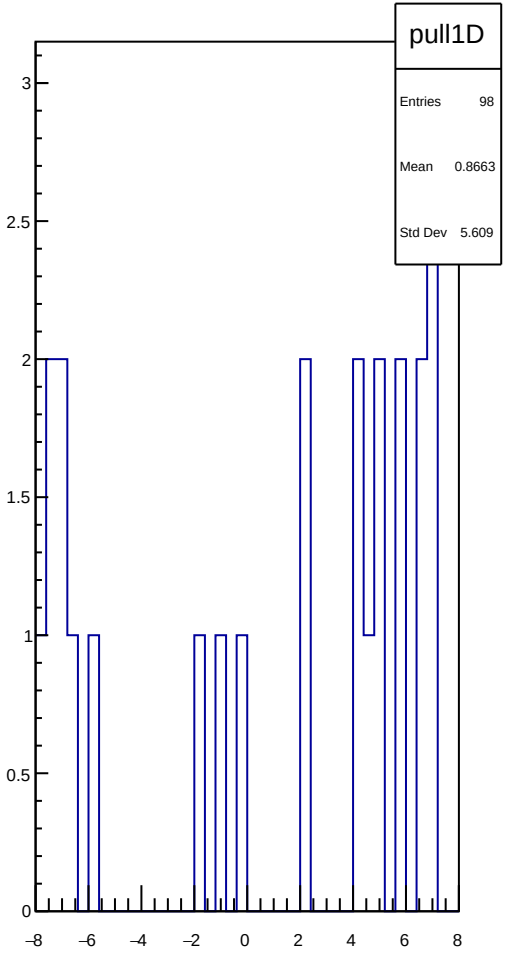

yield_bpm0l01WS_rms vs run
χ² / ndf 1.112e+04 / 97
p0 221.5 ± 0.1593
340
320
300
280
260
240
220
200

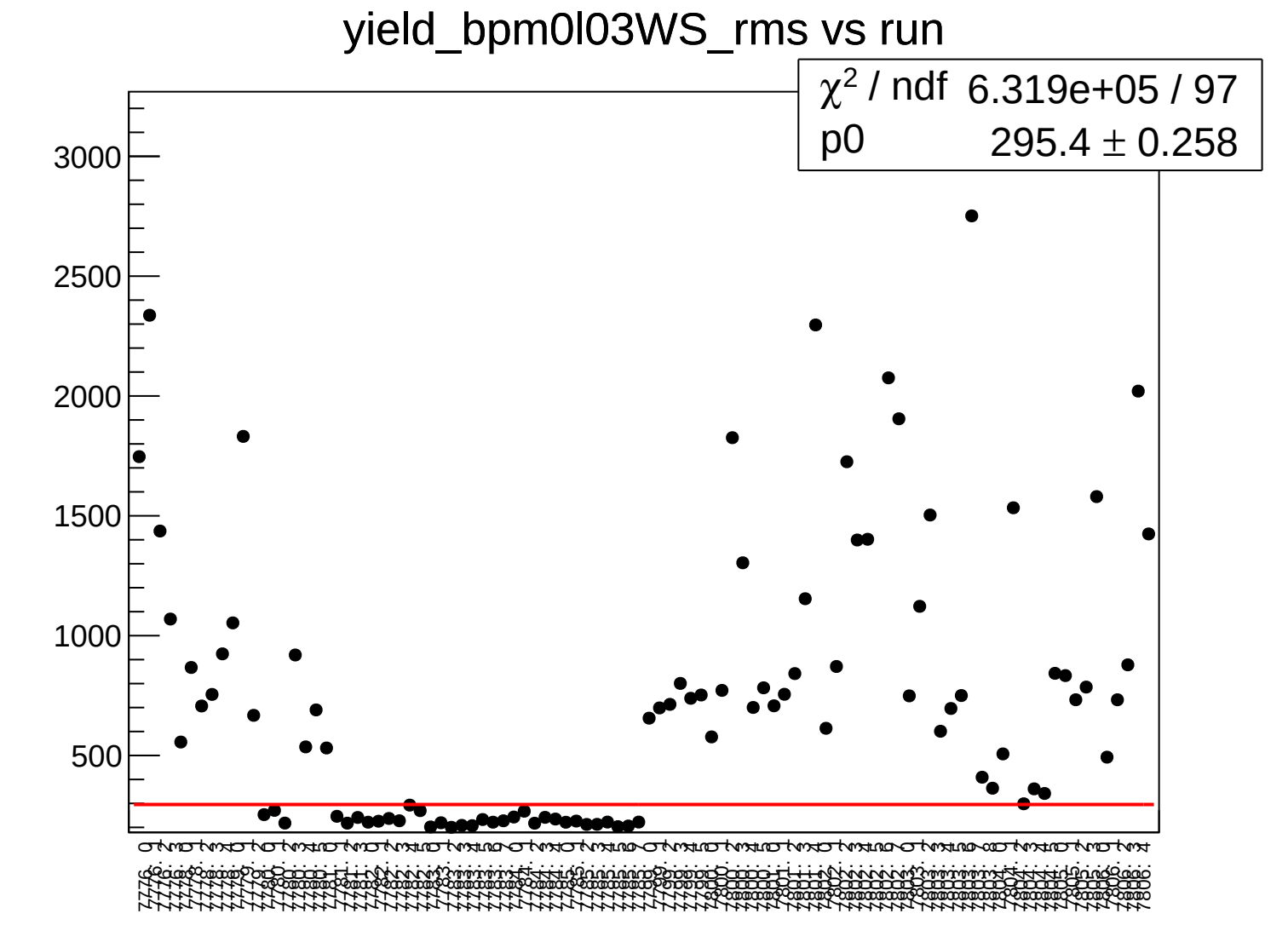

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 7.742e+05 / 97
p0 1.365e+05 ± 0.3272
137.4
137.2
137
136.8
136.6
136.4
136.2
136
pull
Entries 98
Mean −46
Std Dev 128.2
300
250
200
150
100
50
0
−50
−100
−150

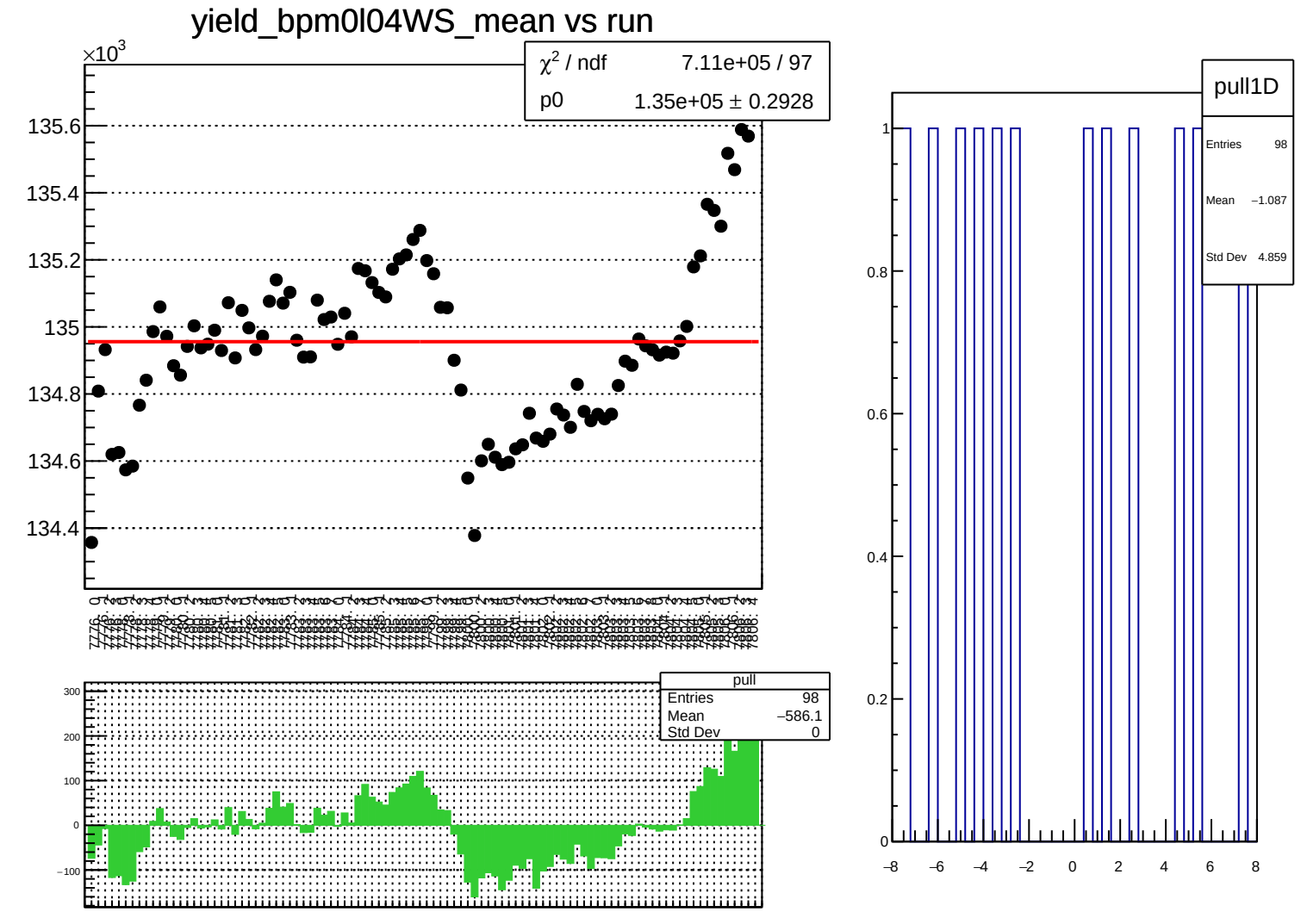

pull1D
Entries 98
Mean −2.664
Std Dev 2.458
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

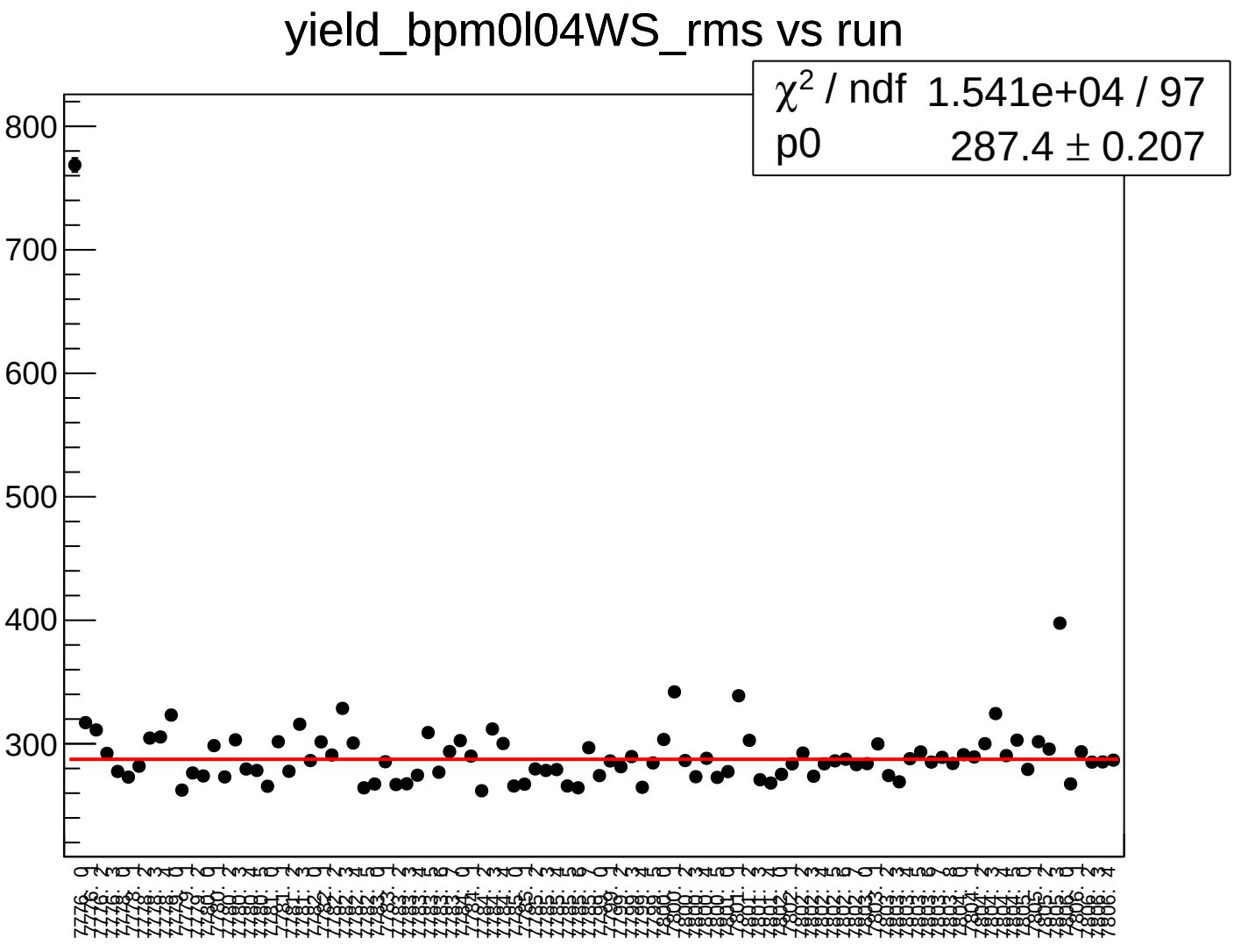

yield_bpm0l02WS_rms vs run
χ² / ndf 1.188e+04 / 97
p0 321.5 ± 0.2314
600
550
500
450
400
350
300

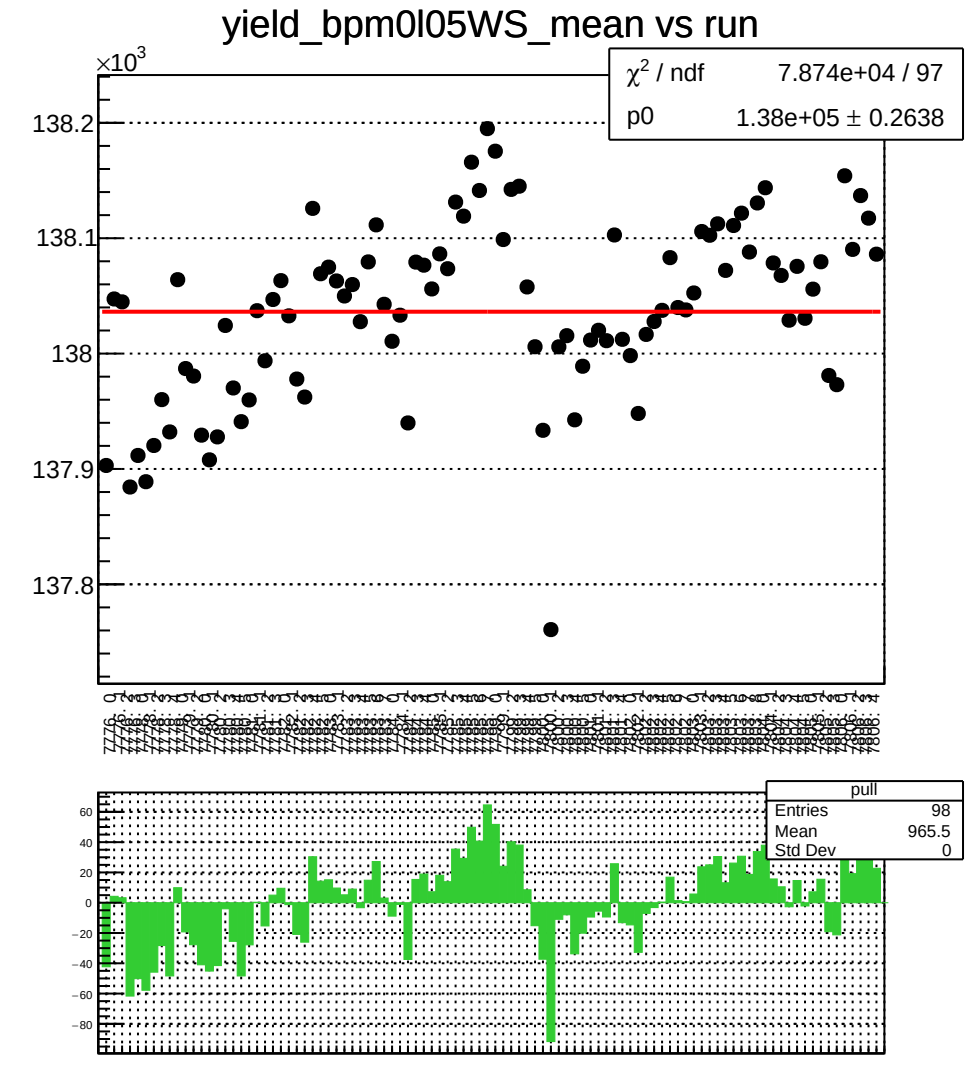

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 6.897e+05 / 97
p0 1.336e+05 ± 0.3649
134.2
134
133.8
133.6
133.4
133.2
133
132.8
pull
Entries 98
Mean 20.79
Std Dev 63.31
200
150
100
50
0
−50
−100
−150
−200
−250

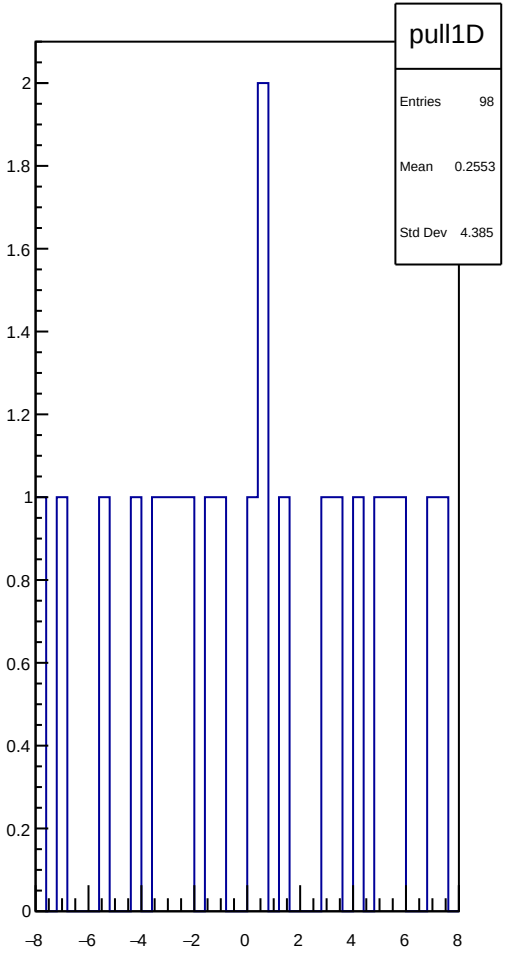

pull1D
Entries 98
Mean 0.8663
Std Dev 5.609
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

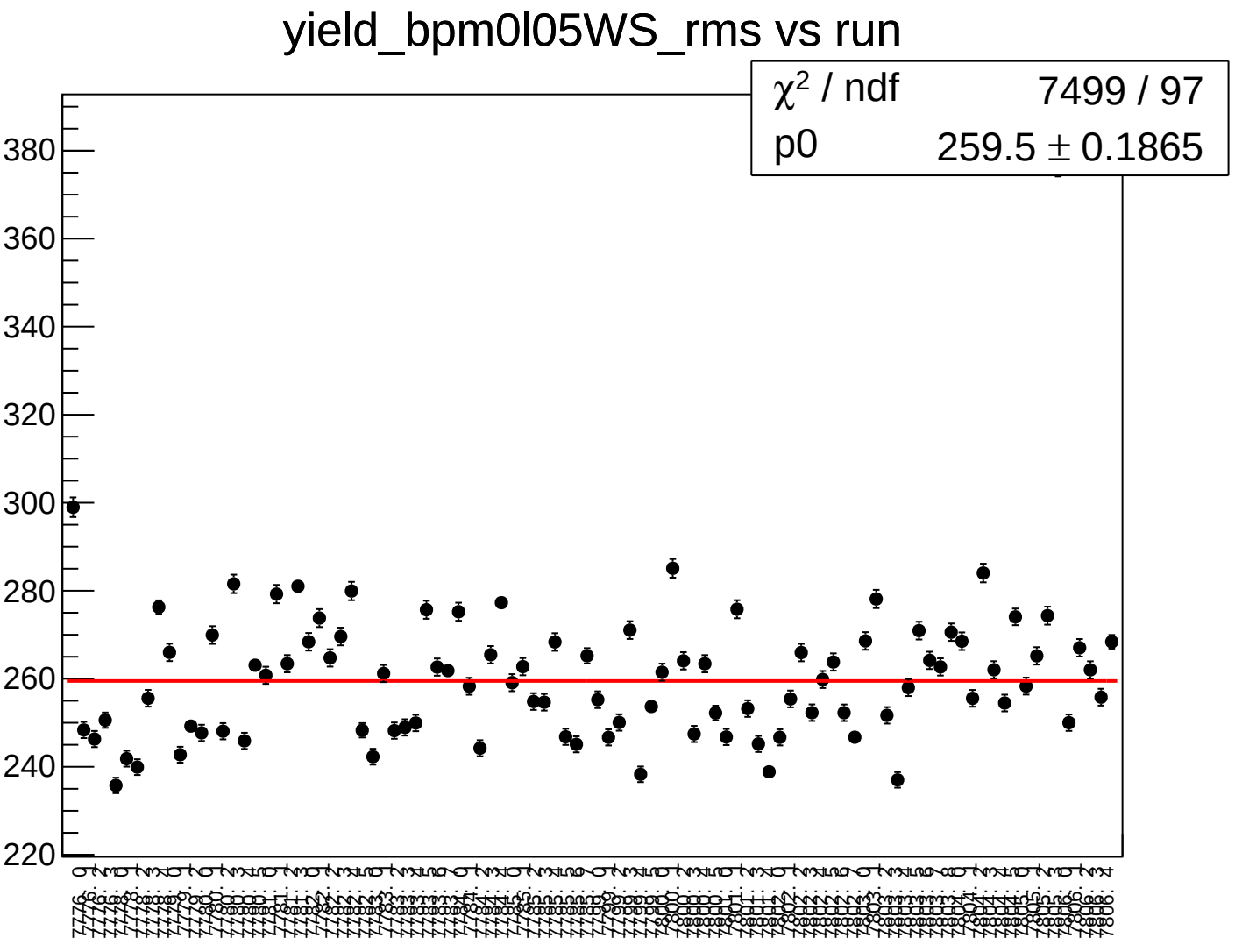

yield_bpm0l03WS_rms vs run
χ^2 / ndf 6.319e+05 / 97
p0 295.4 ± 0.258
3000
2500
2000
1500
1000
500

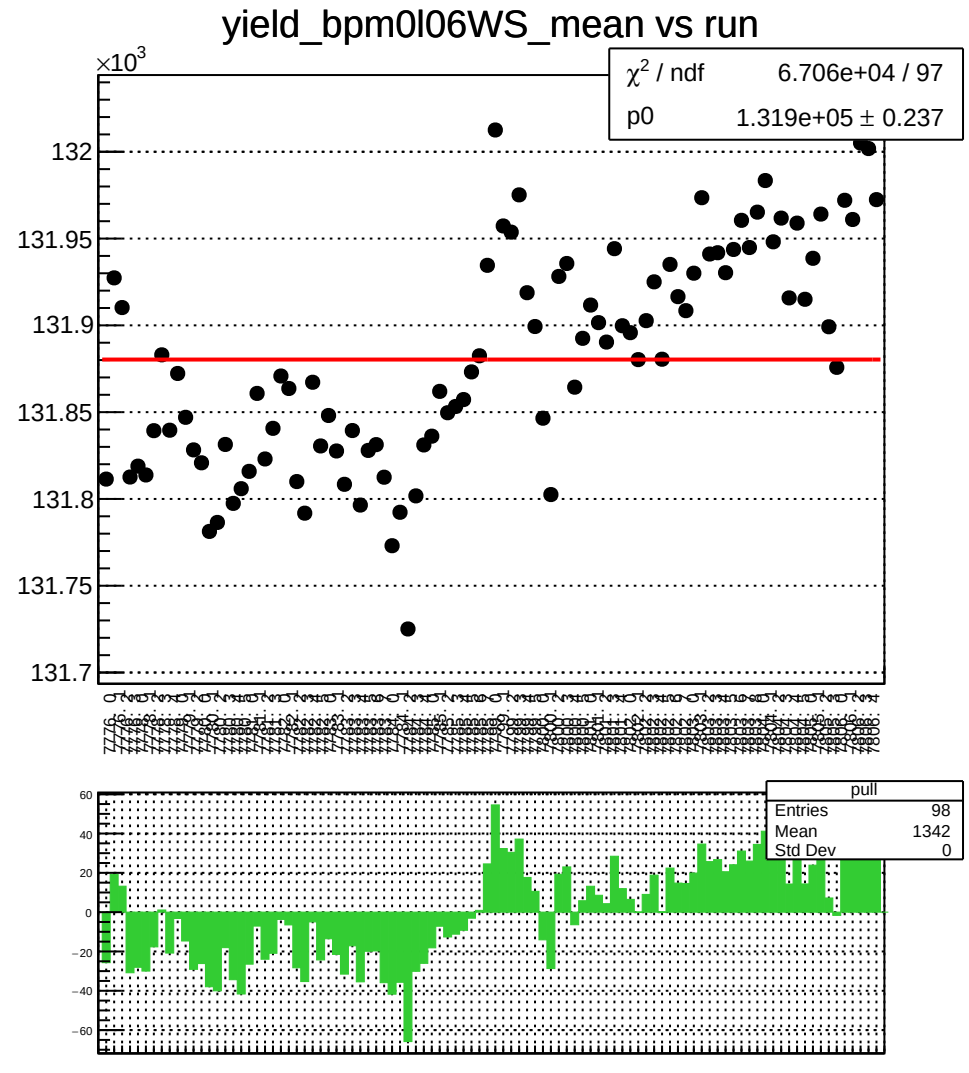

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 7.11e+05 / 97
p0 1.35e+05 ± 0.2928
135.6
135.4
135.2
135
134.8
134.6
134.4
pull
Entries 98
Mean −586.1
Std Dev 0
300
200
100
0
−100
pull1D
Entries 98
Mean −1.087
Std Dev 4.859
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

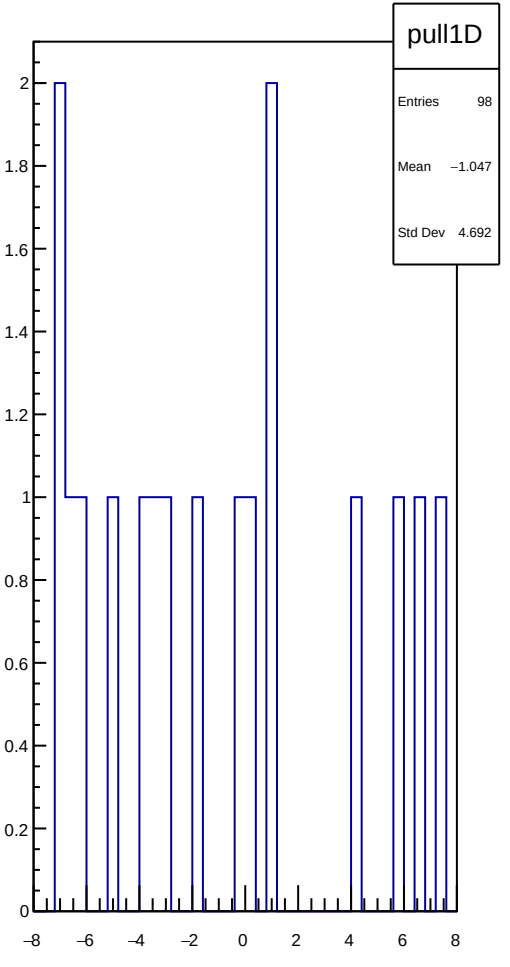

yield_bpm0l04WS_rms vs run
χ² / ndf 1.541e+04 / 97
p0 287.4 ± 0.207
800
700
600
500
400
300

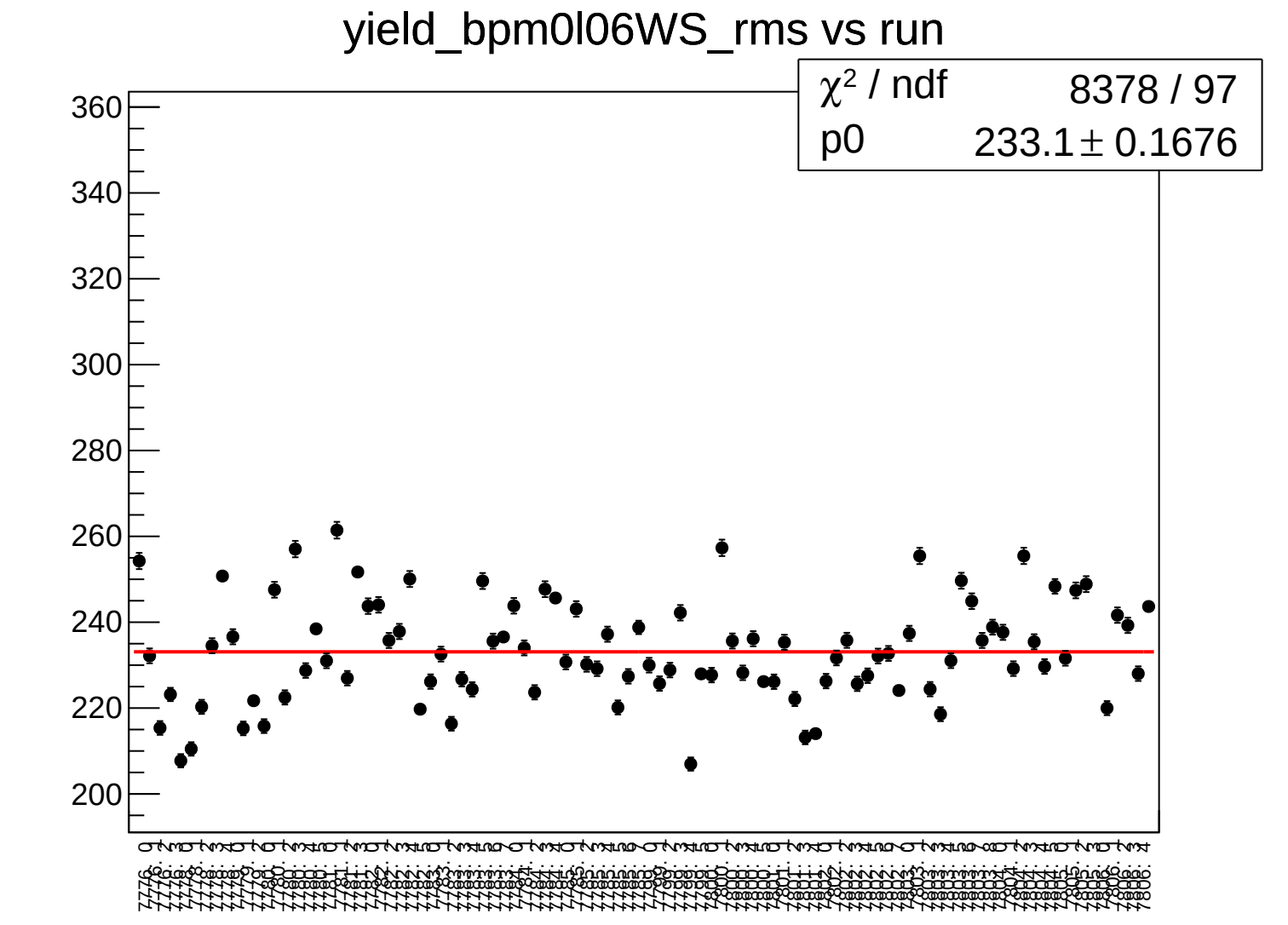

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 7.874e+04 / 97
p0 1.38e+05 ± 0.2638
138.2
138.1
138
137.9
137.8
pull
Entries 98
Mean 965.5
Std Dev 0
60
40
20
0
−20
−40
−60
−80

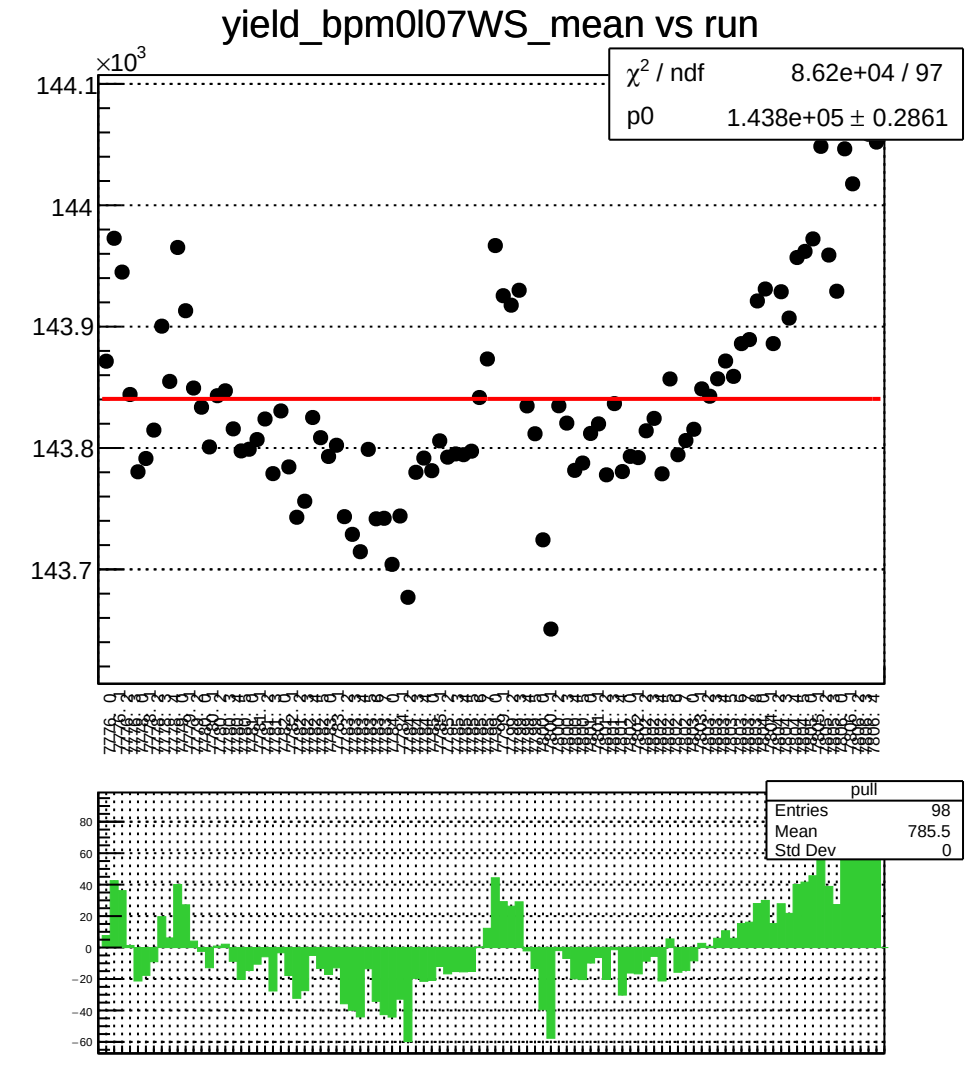

pull1D
Entries 98
Mean 0.2553
Std Dev 4.385
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

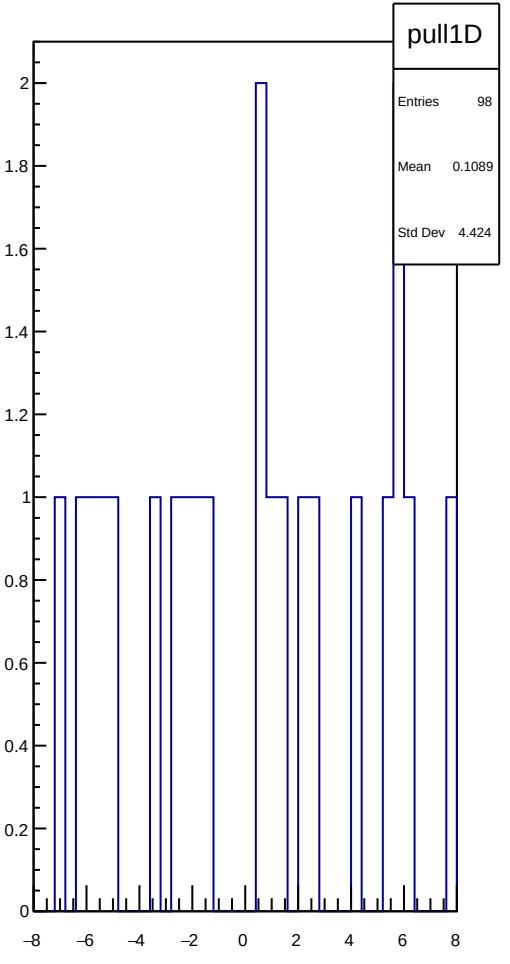

yield_bpm0l05WS_rms vs run
χ² / ndf 7499 / 97
p0 259.5 ± 0.1865
380
360
340
320
300
280
260
240
220

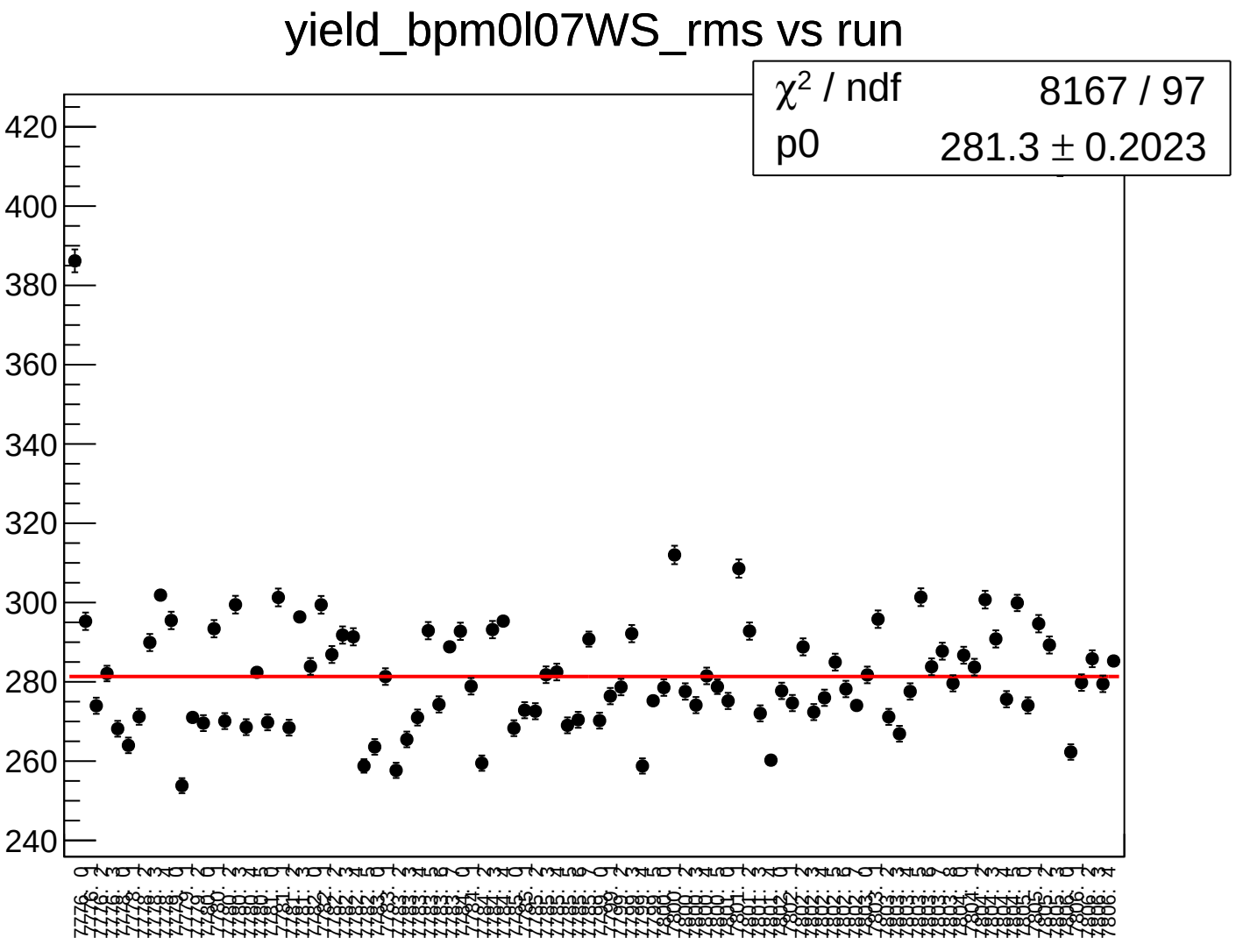

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 6.706e+04 / 97
p0 1.319e+05 ± 0.237
132
131.95
131.9
131.85
131.8
131.75
131.7
pull
Entries 98
Mean 1342
Std Dev 0
60
40
20
0
−20
−40
−60

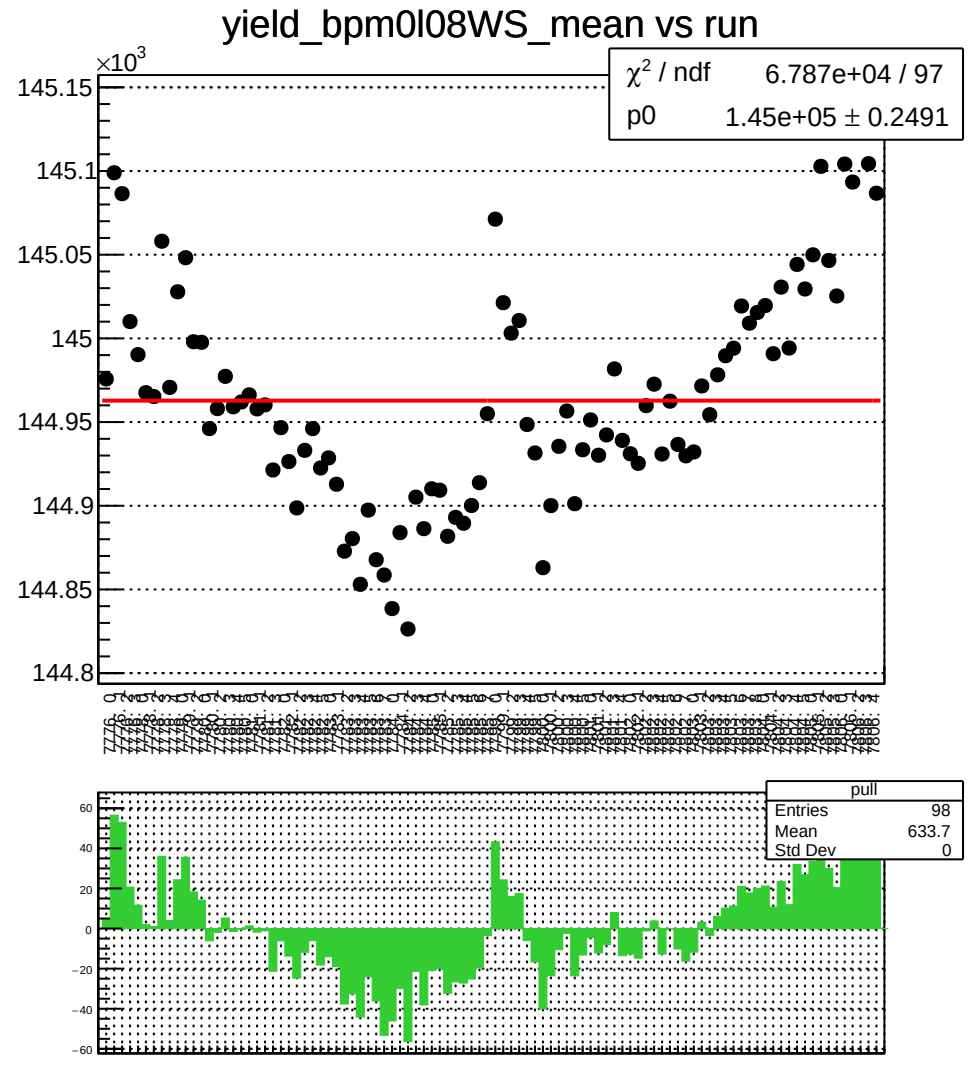

pull1D
Entries 98
Mean −1.047
Std Dev 4.692
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

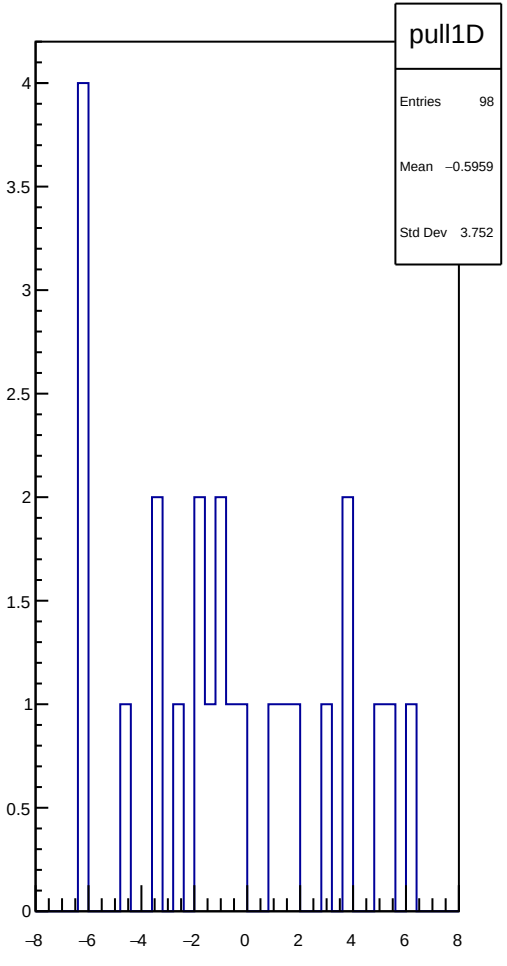

yield_bpm0l06WS_rms vs run
χ² / ndf 8378 / 97
p0 233.1 ± 0.1676
360
340
320
300
280
260
240
220
200

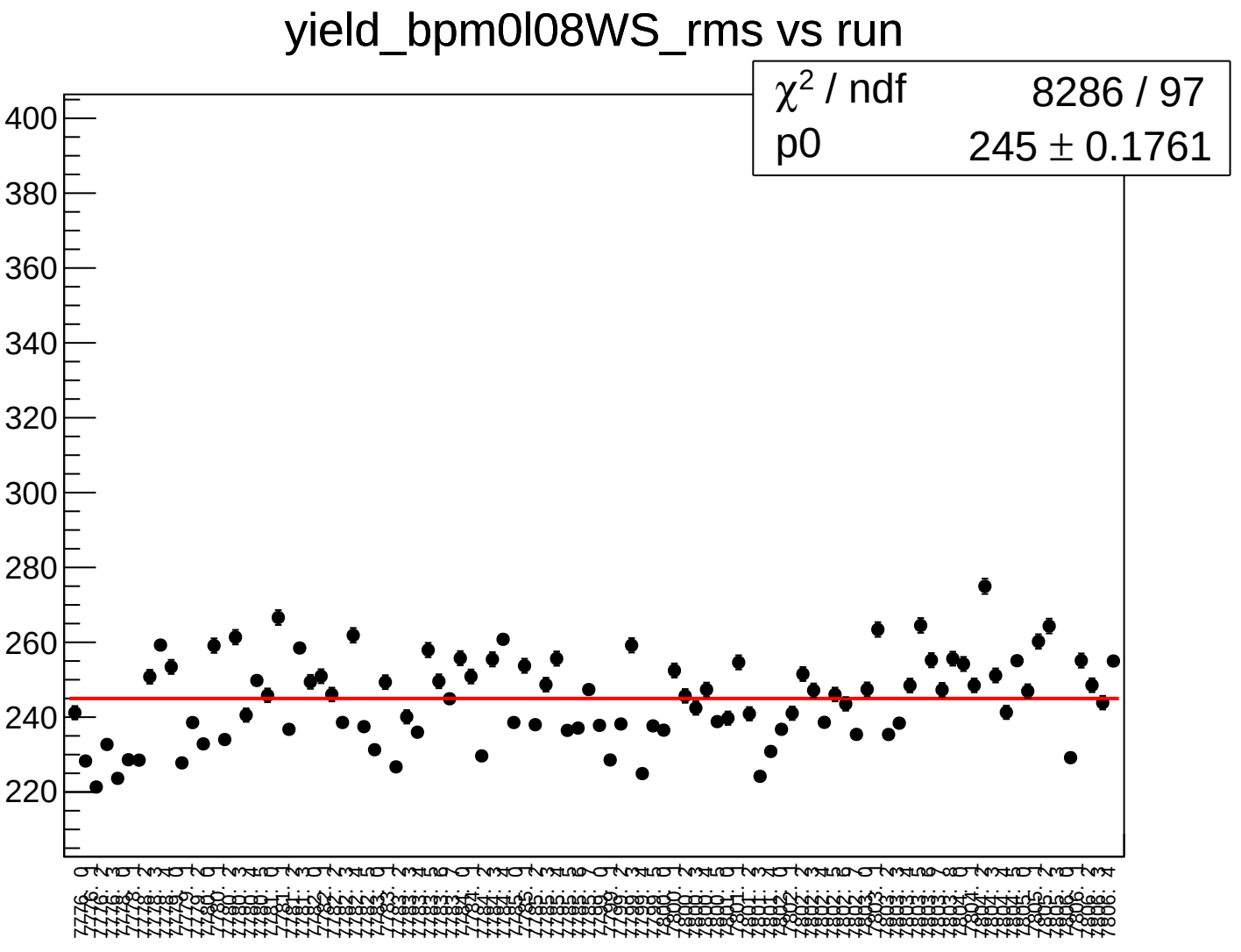

yield_bpm0l07WS_mean vs run
×10^3
144.1
144
143.9
143.8
143.7
χ² / ndf 8.62e+04 / 97
p0 1.438e+05 ± 0.2861
pull
Entries 98
Mean 785.5
Std Dev 0
80
60
40
20
0
−20
−40
−60

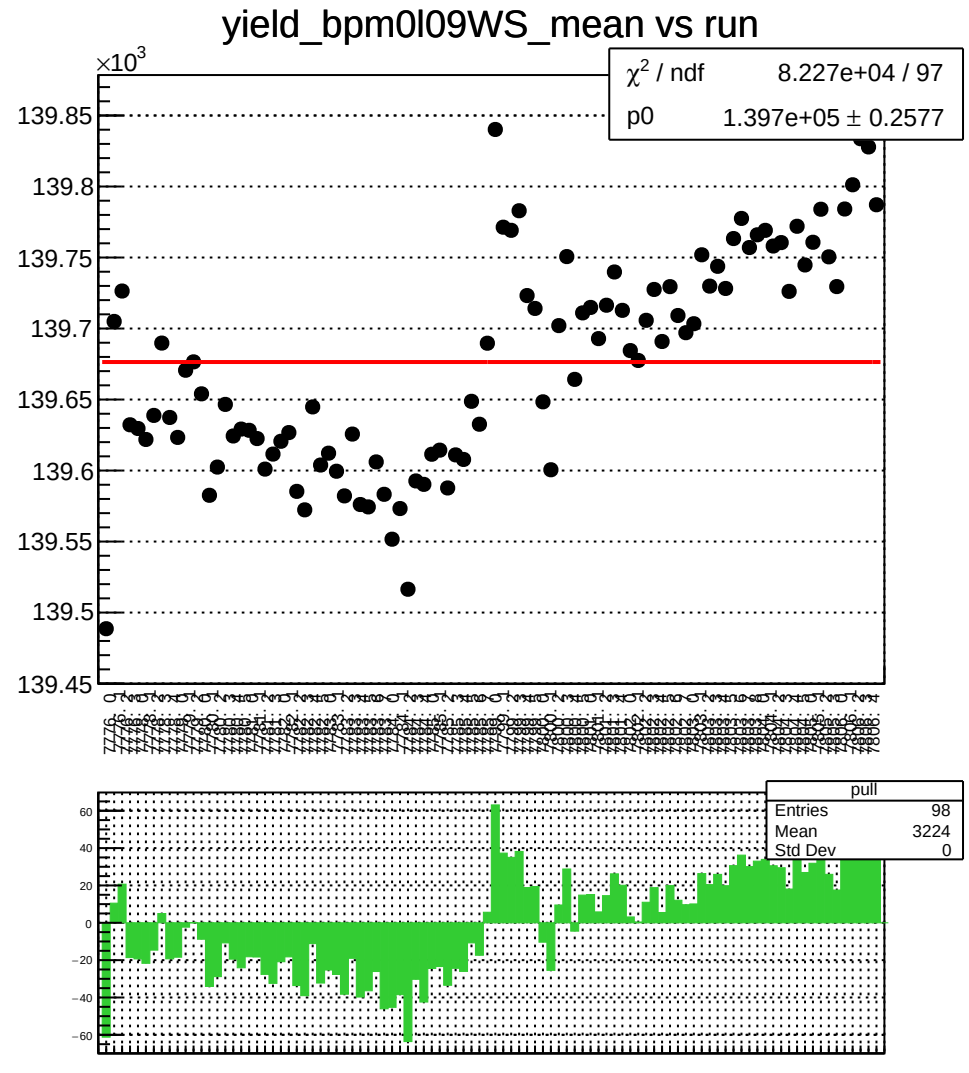

pull1D
Entries 98
Mean 0.1089
Std Dev 4.424
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

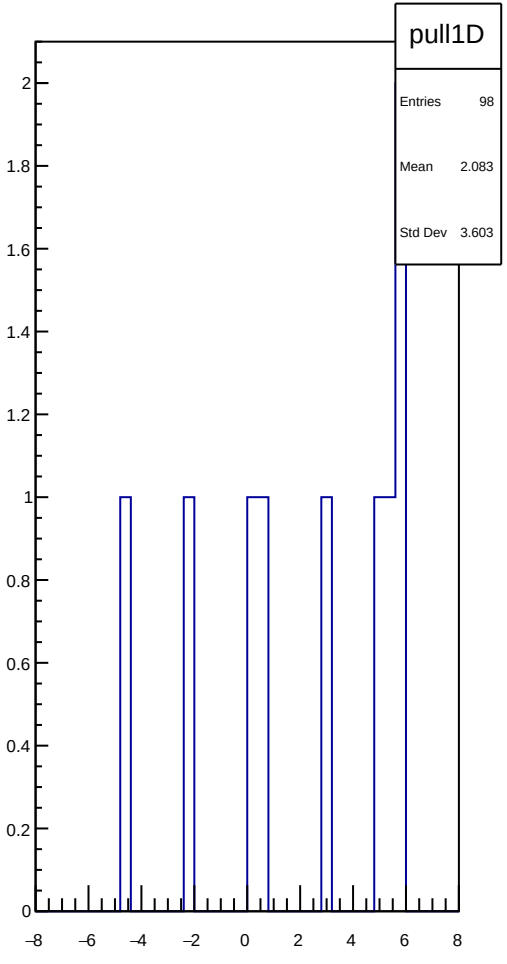

yield_bpm0l07WS_rms vs run
χ² / ndf 8167 / 97
p0 281.3 ± 0.2023
420
400
380
360
340
320
300
280
260
240

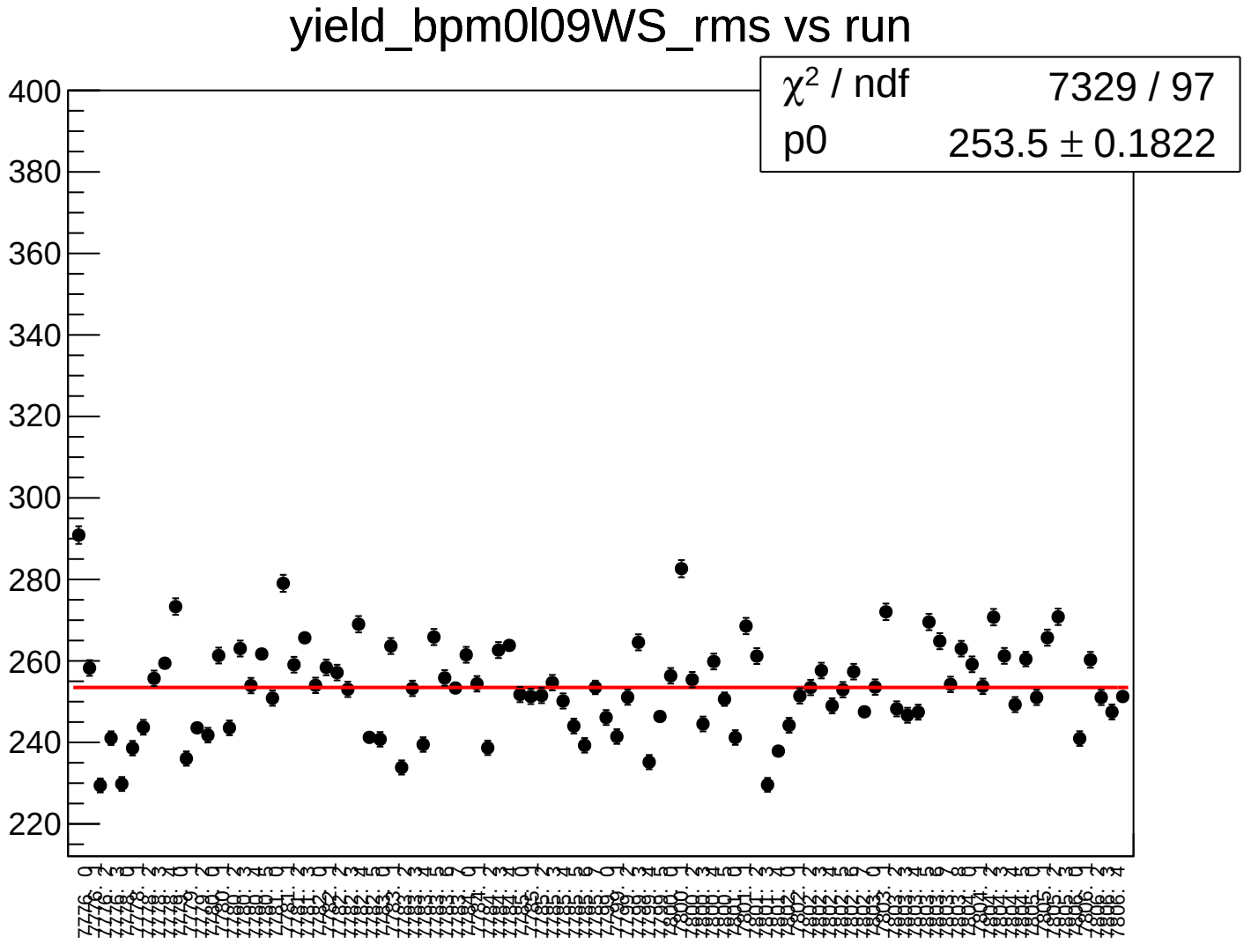

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 6.787e+04 / 97
p0 1.45e+05 ± 0.2491
145.15
145.1
145.05
145
144.95
144.9
144.85
144.8
pull
Entries 98
Mean 633.7
Std Dev 0
60
40
20
0
−20
−40
−60

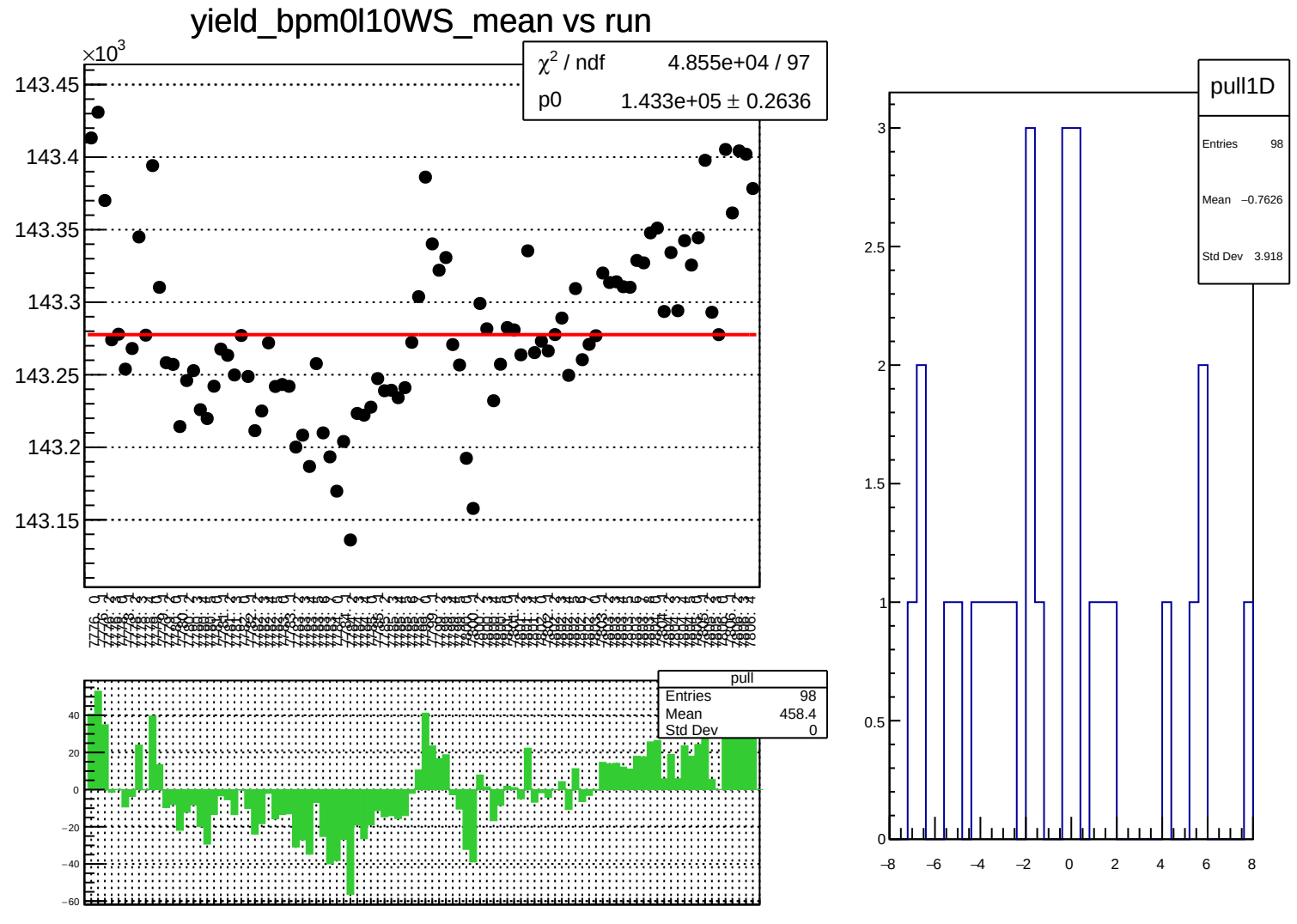

pull1D
Entries 98
Mean −0.5959
Std Dev 3.752
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

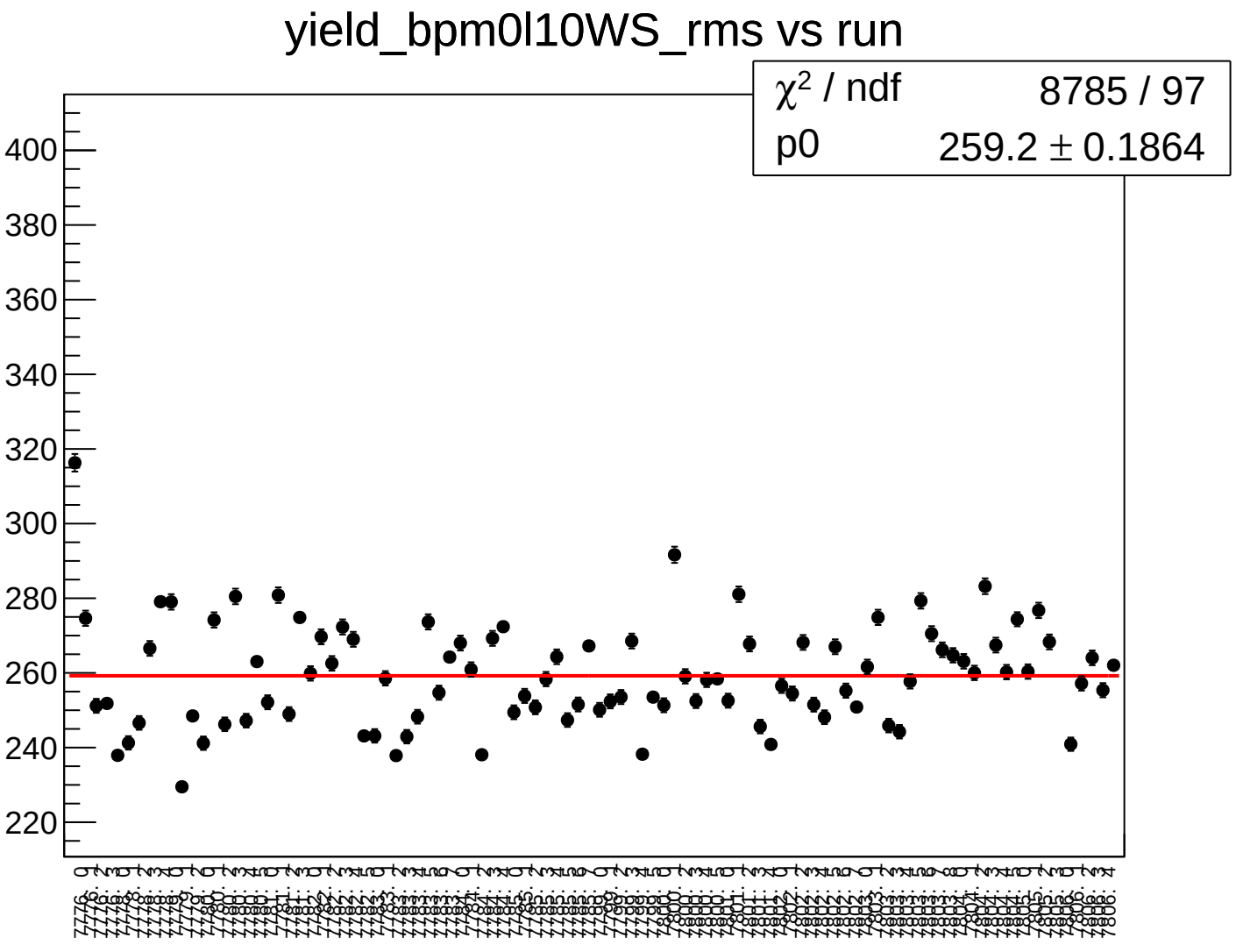

yield_bpm0l08WS_rms vs run
χ² / ndf 8286 / 97
p0 245 ± 0.1761
400
380
360
340
320
300
280
260
240
220

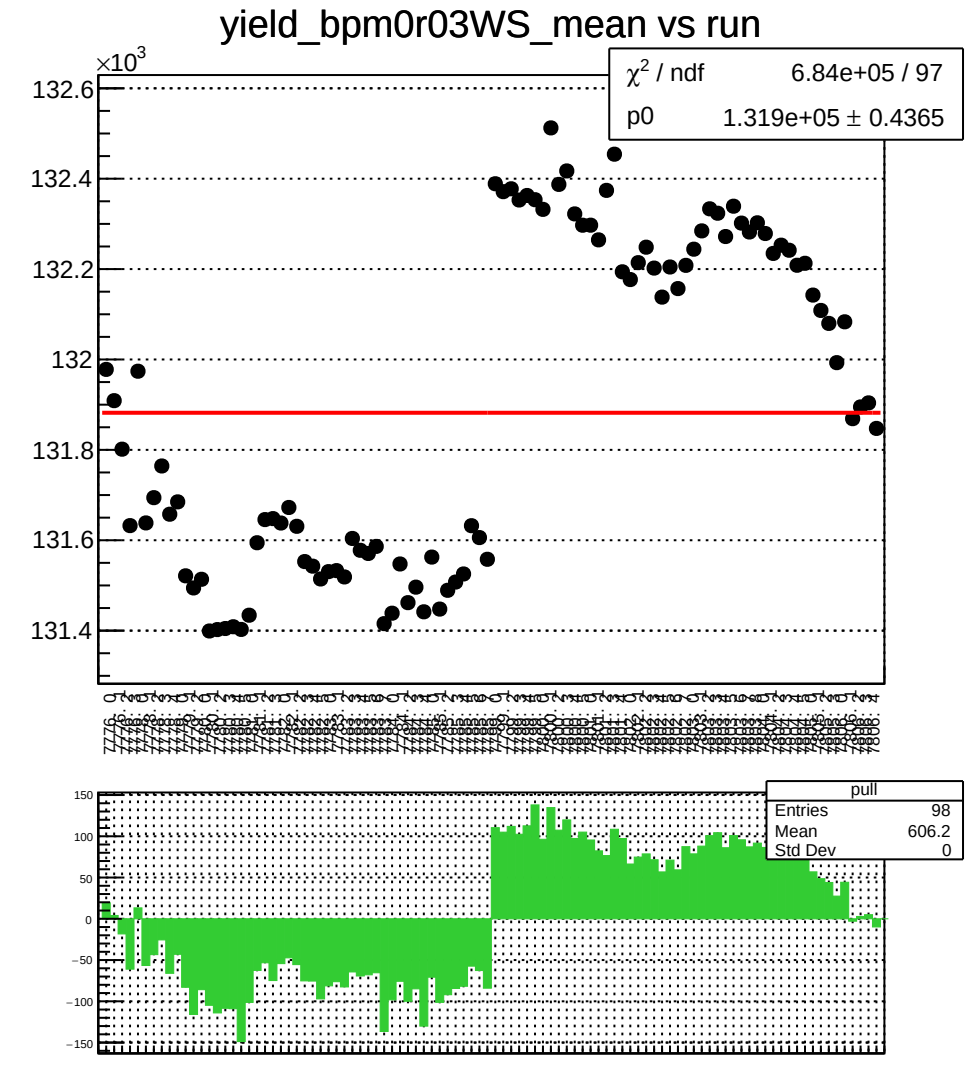

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 8.227e+04 / 97
p0 1.397e+05 ± 0.2577
139.85
139.8
139.75
139.7
139.65
139.6
139.55
139.5
139.45
pull
Entries 98
Mean 3224
Std Dev 0
60
40
20
0
−20
−40
−60

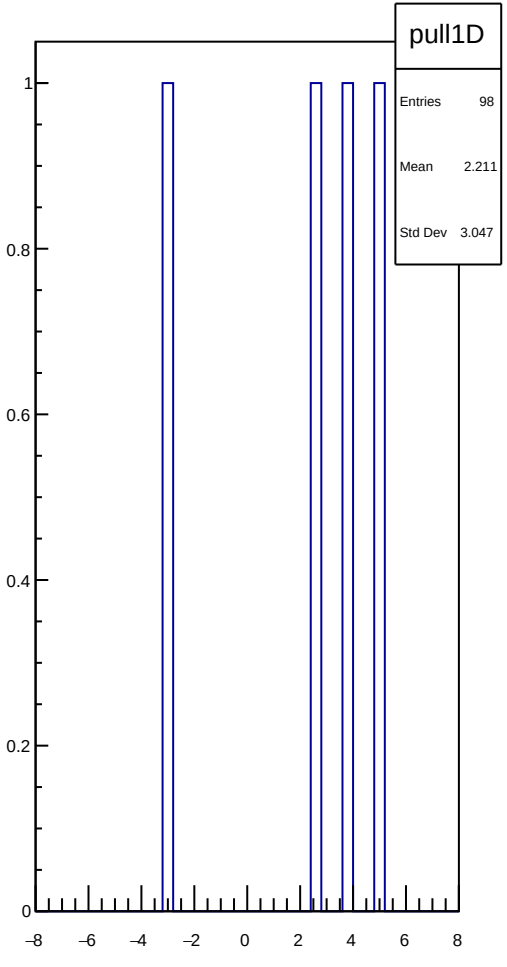

pull1D
Entries 98
Mean 2.083
Std Dev 3.603
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

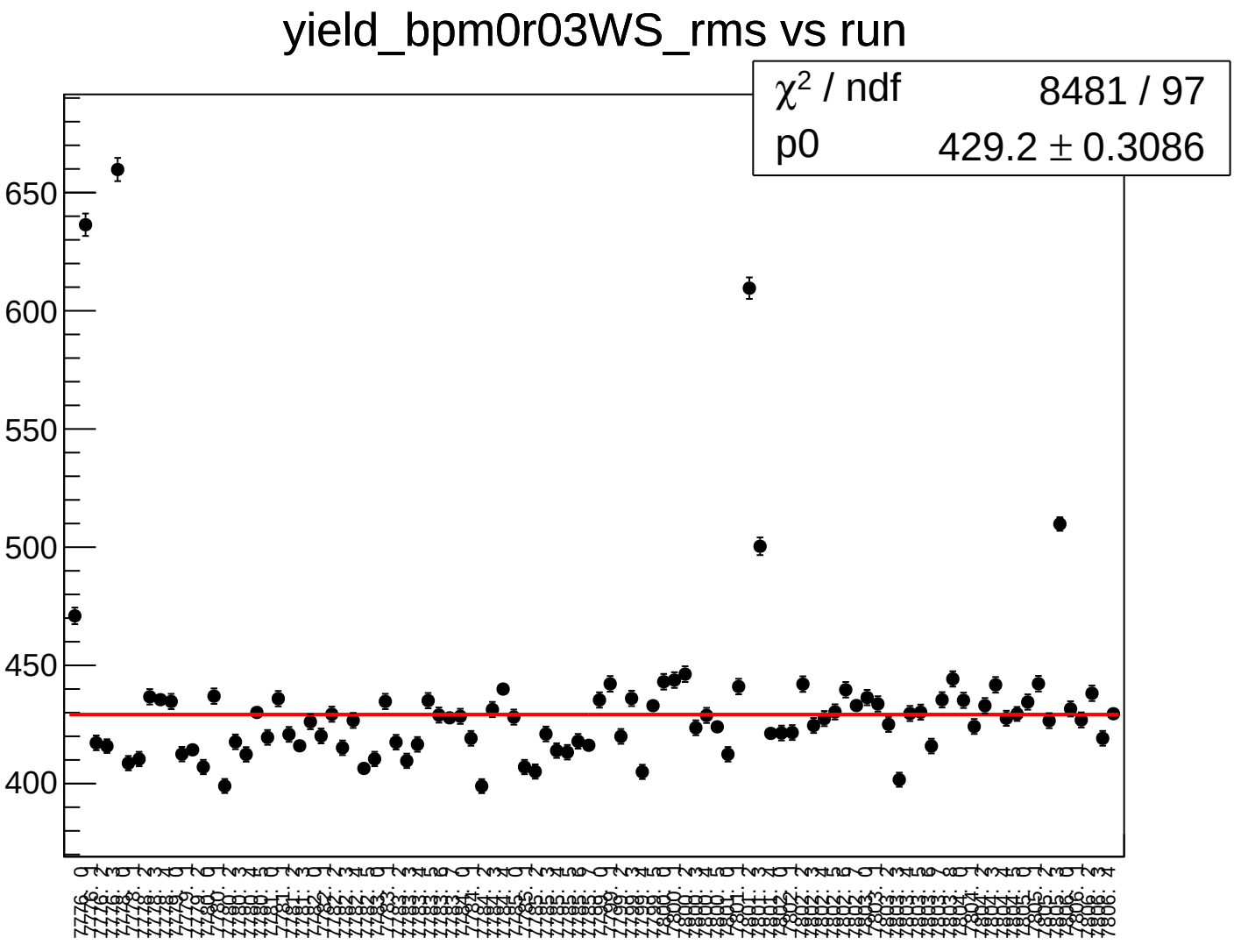

yield_bpm0l09WS_rms vs run
χ² / ndf 7329 / 97
p0 253.5 ± 0.1822
400
380
360
340
320
300
280
260
240
220

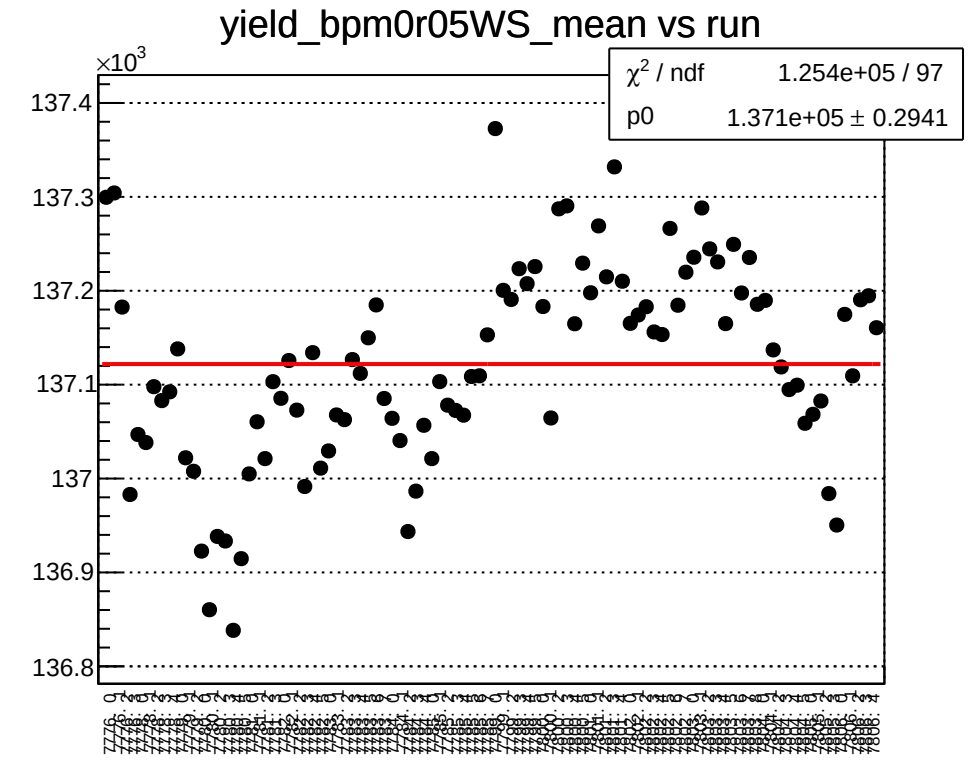

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 4.855e+04 / 97
p0 1.433e+05 ± 0.2636
143.45
143.4
143.35
143.3
143.25
143.2
143.15
pull
Entries 98
Mean 458.4
Std Dev 0
40
20
0
−20
−40
−60
pull1D
Entries 98
Mean −0.7626
Std Dev 3.918
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

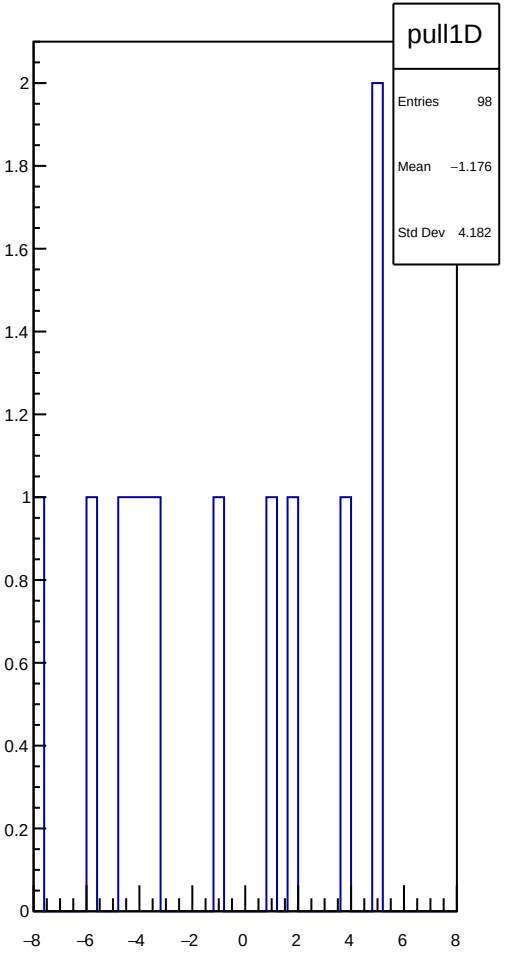

yield_bpm0l10WS_rms vs run
χ² / ndf 8785 / 97
p0 259.2 ± 0.1864
400
380
360
340
320
300
280
260
240
220

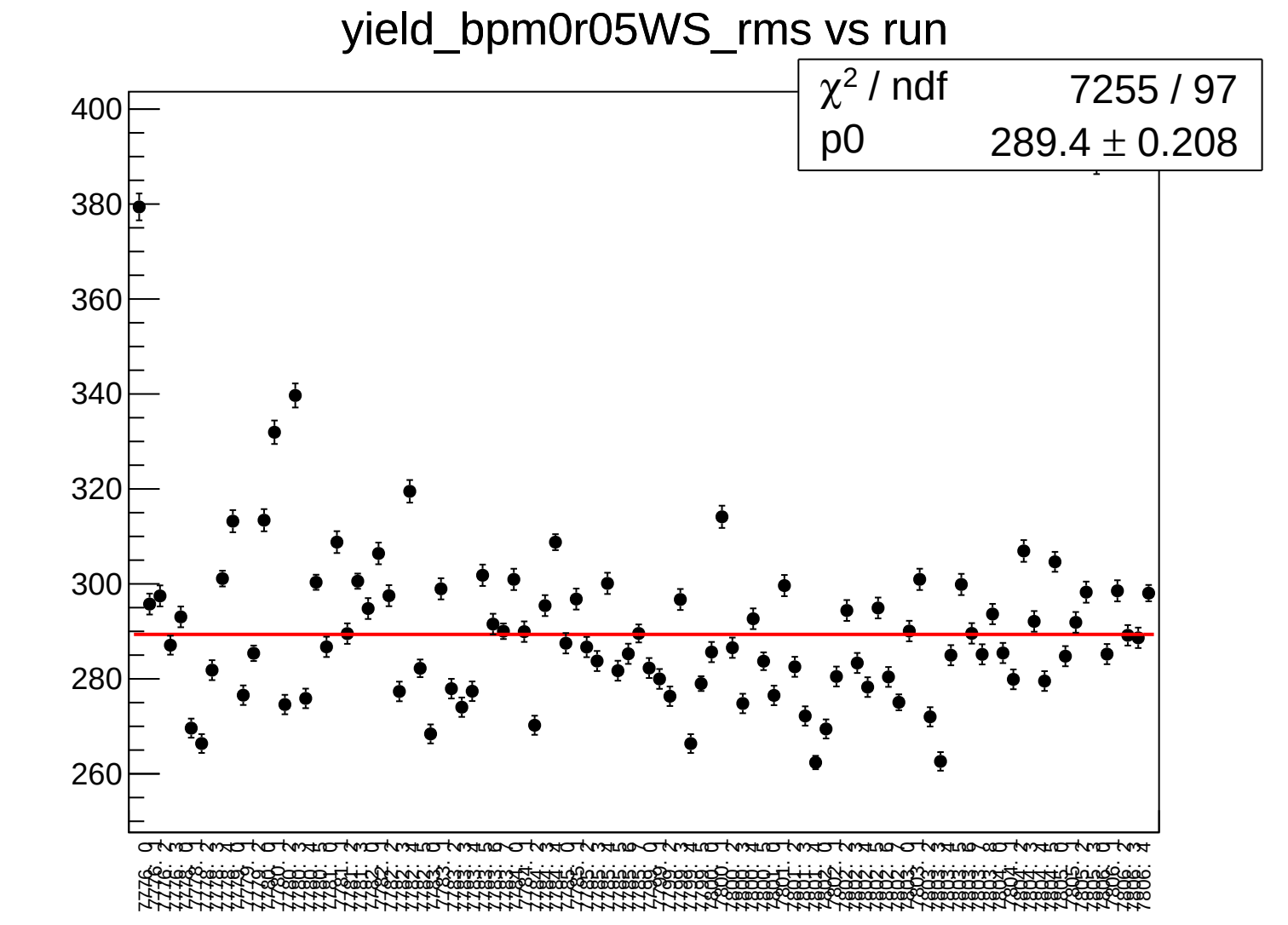

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 6.84e+05 / 97
p0 1.319e+05 ± 0.4365
132.6
132.4
132.2
132
131.8
131.6
131.4
pull
Entries 98
Mean 606.2
Std Dev 0
150
100
50
0
−50
−100
−150

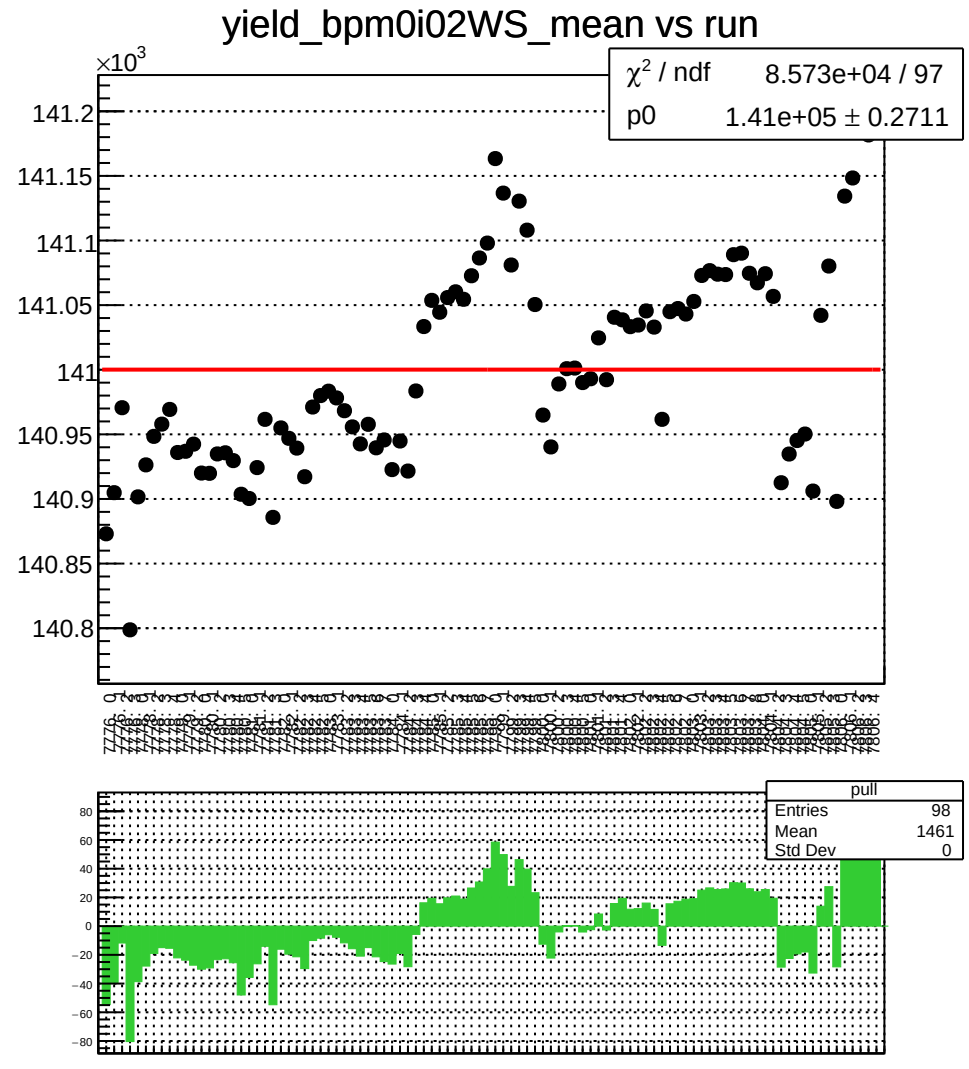

pull1D
Entries 98
Mean 2.211
Std Dev 3.047
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

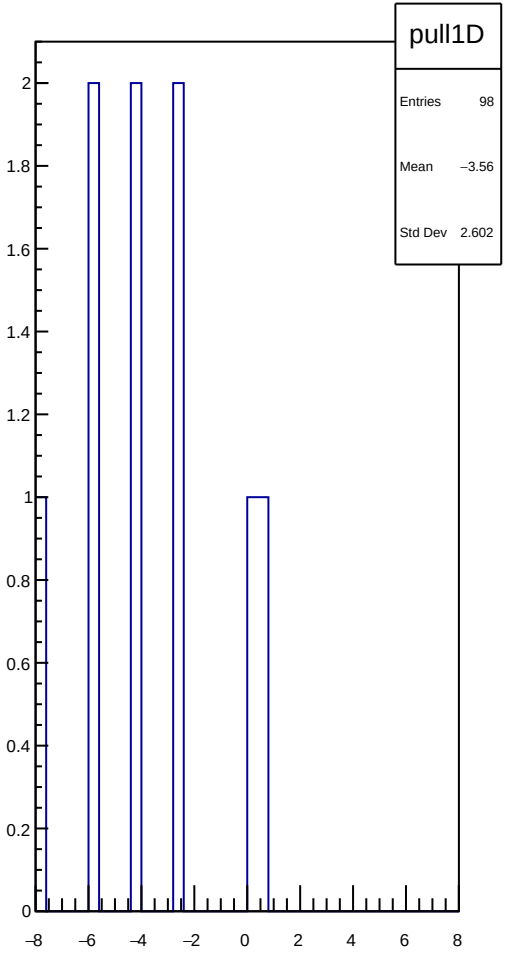

yield_bpm0r03WS_rms vs run
χ² / ndf 8481 / 97
p0 429.2 ± 0.3086
650
600
550
500
450
400

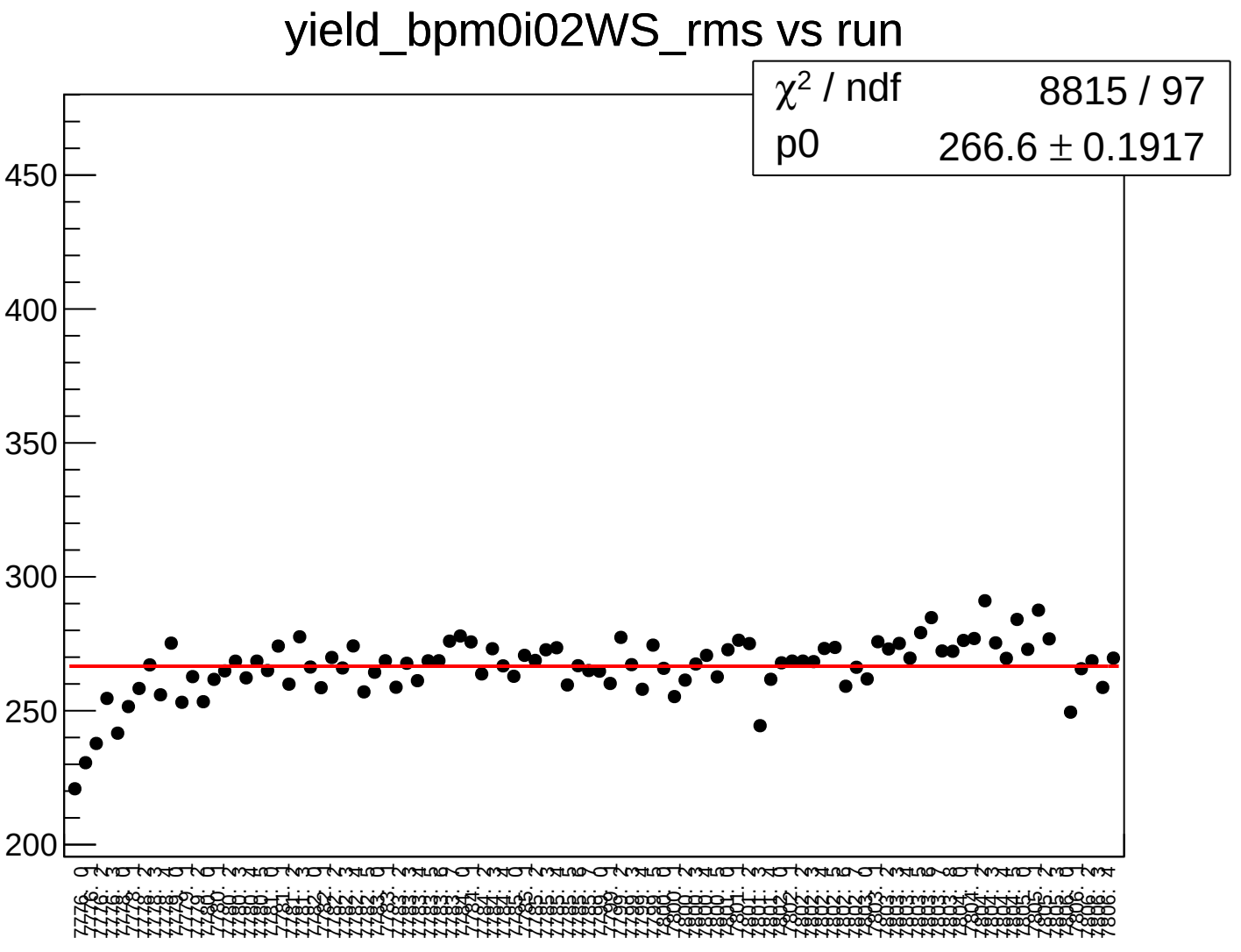

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.254e+05 / 97
p0 1.371e+05 ± 0.2941
137.4
137.3
137.2
137.1
137
136.9
136.8
pull
Entries 98
Mean 8.097e+04
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

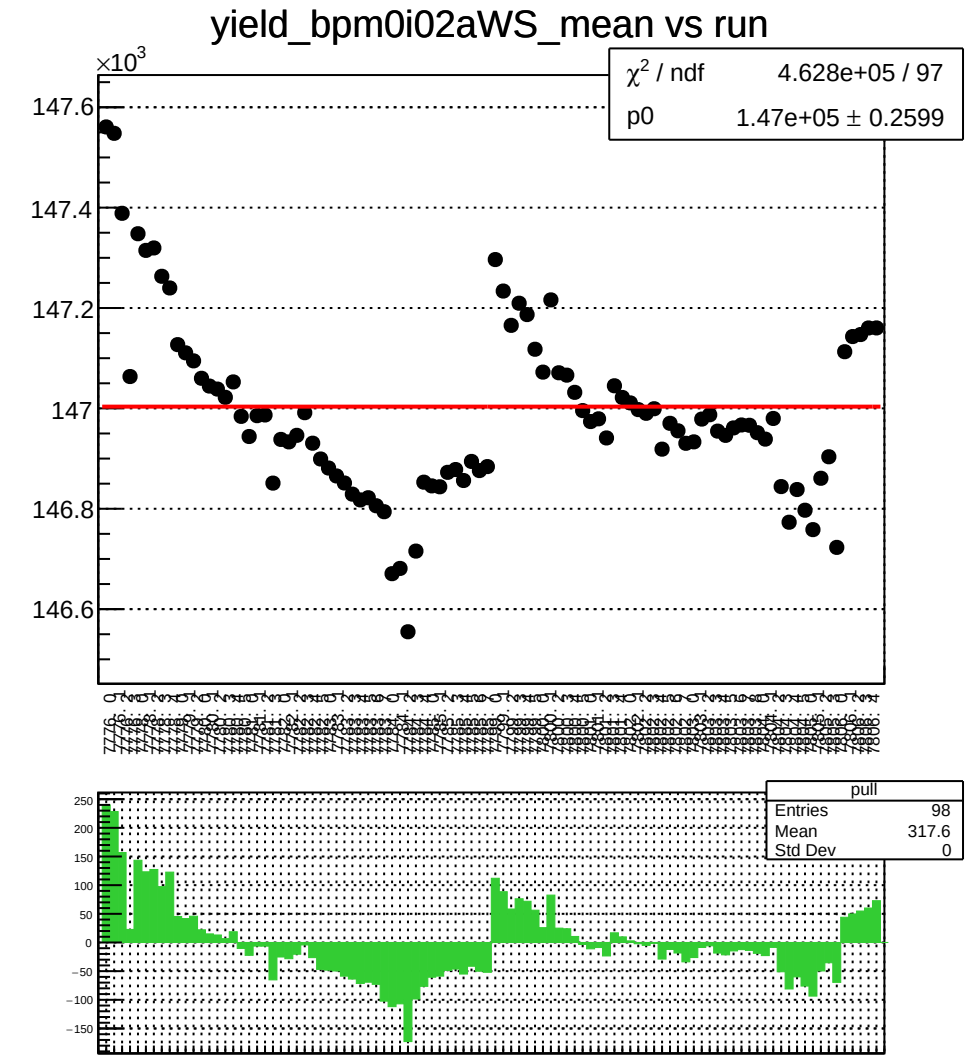

pull1D
Entries 98
Mean −1.176
Std Dev 4.182
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

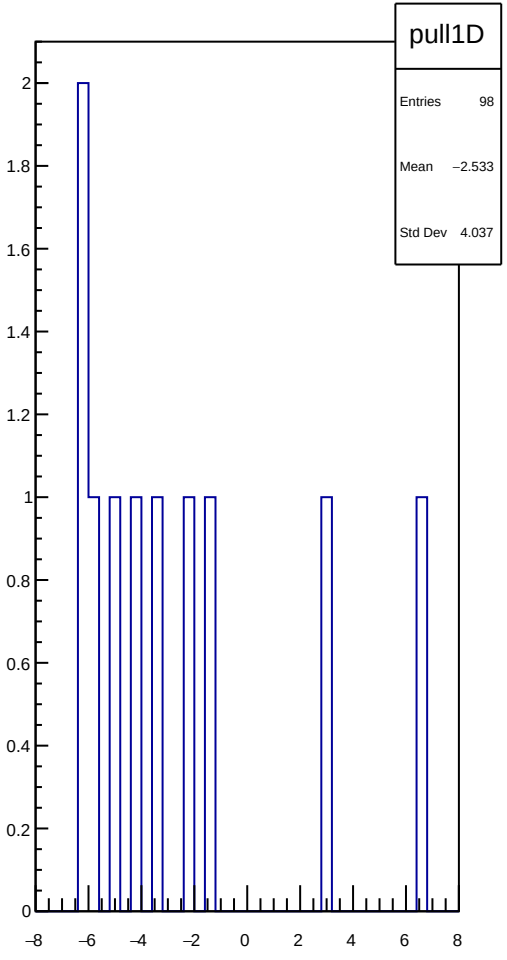

yield_bpm0r05WS_rms vs run
χ² / ndf 7255 / 97
p0 289.4 ± 0.208
400
380
360
340
320
300
280
260

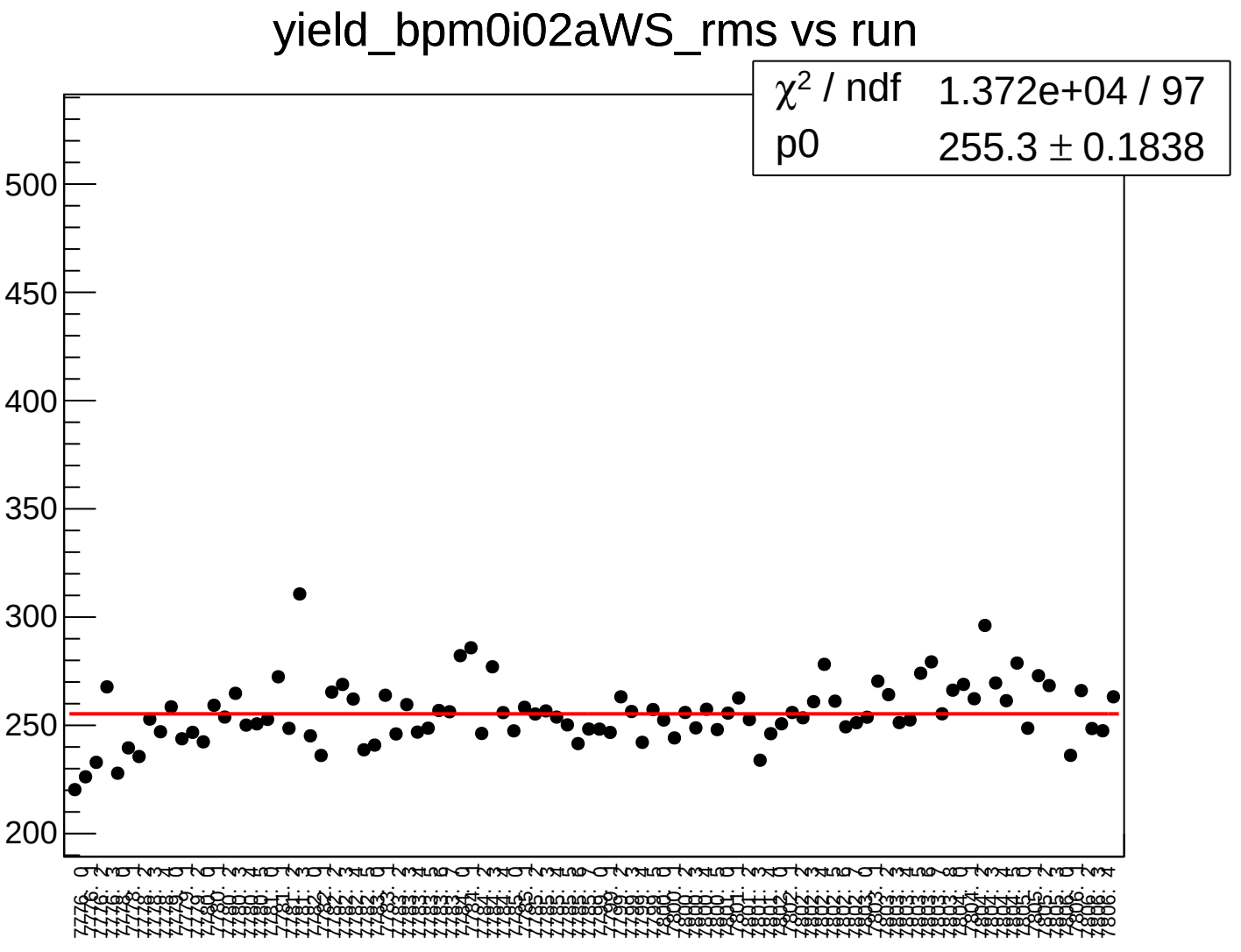

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 8.573e+04 / 97
p0 1.41e+05 ± 0.2711
141.2
141.15
141.1
141.05
141
140.95
140.9
140.85
140.8
pull
Entries 98
Mean 1461
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

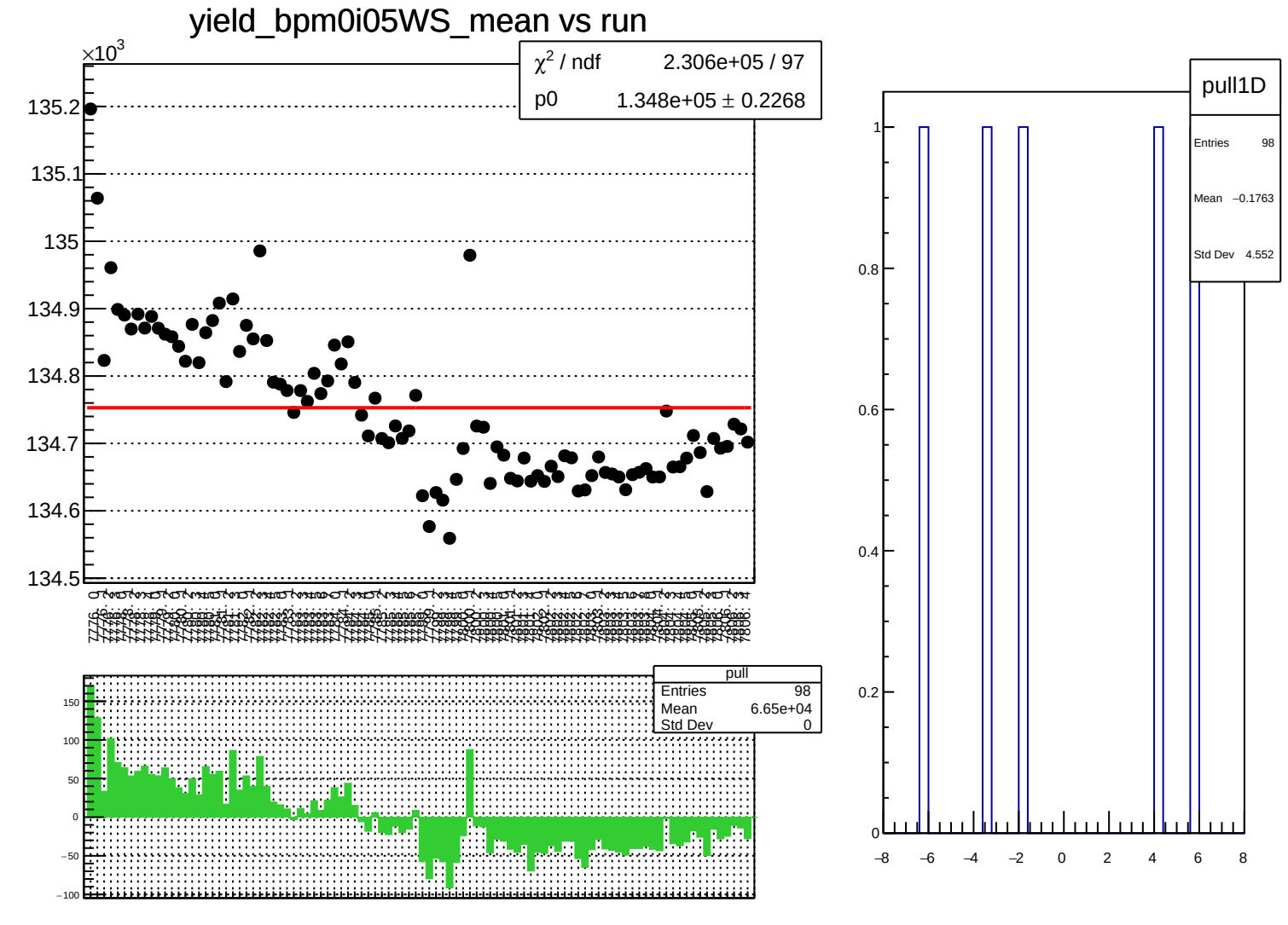

pull1D
Entries 98
Mean −3.56
Std Dev 2.602
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

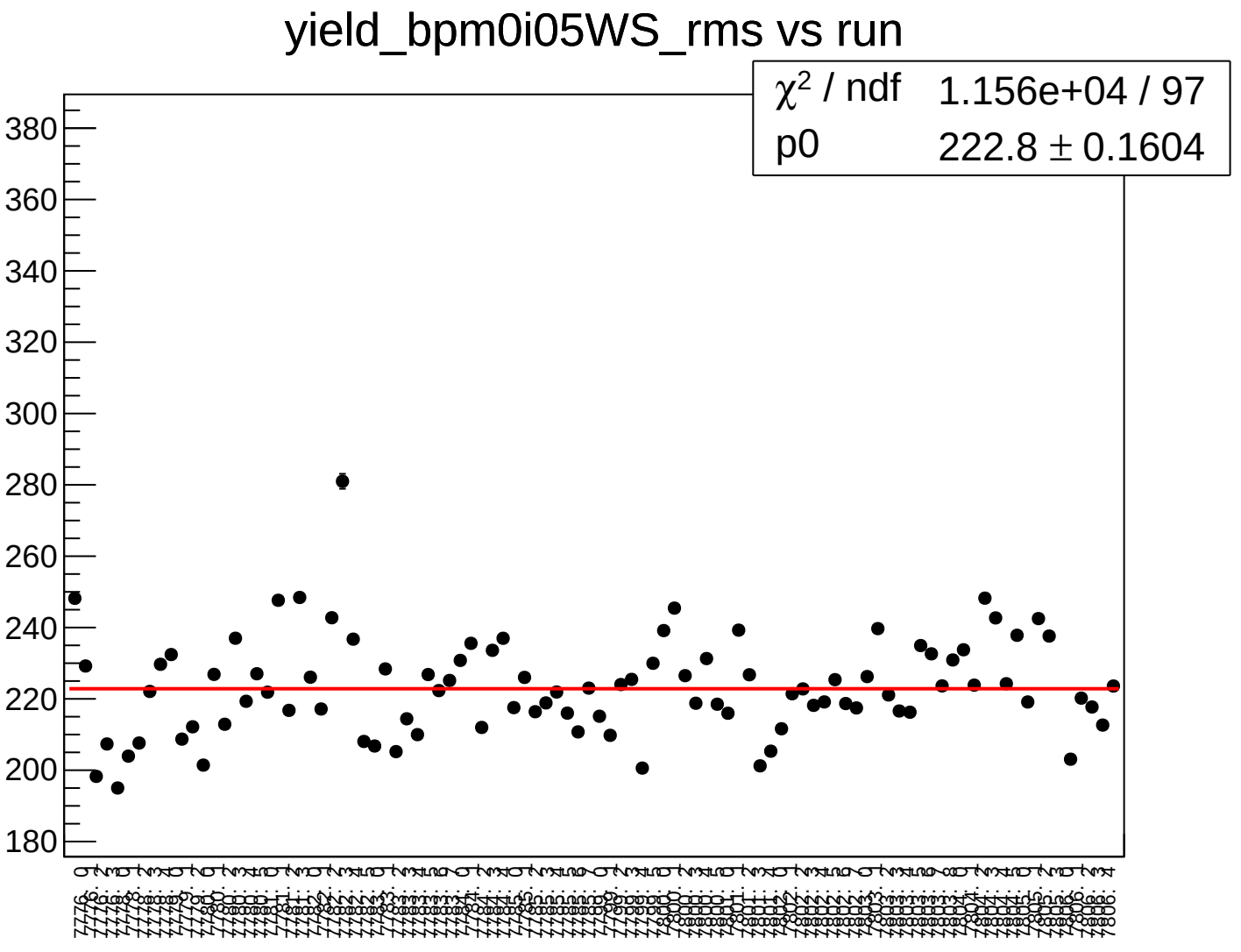

yield_bpm0i02WS_rms vs run
χ² / ndf 8815 / 97
p0 266.6 ± 0.1917
450
400
350
300
250
200

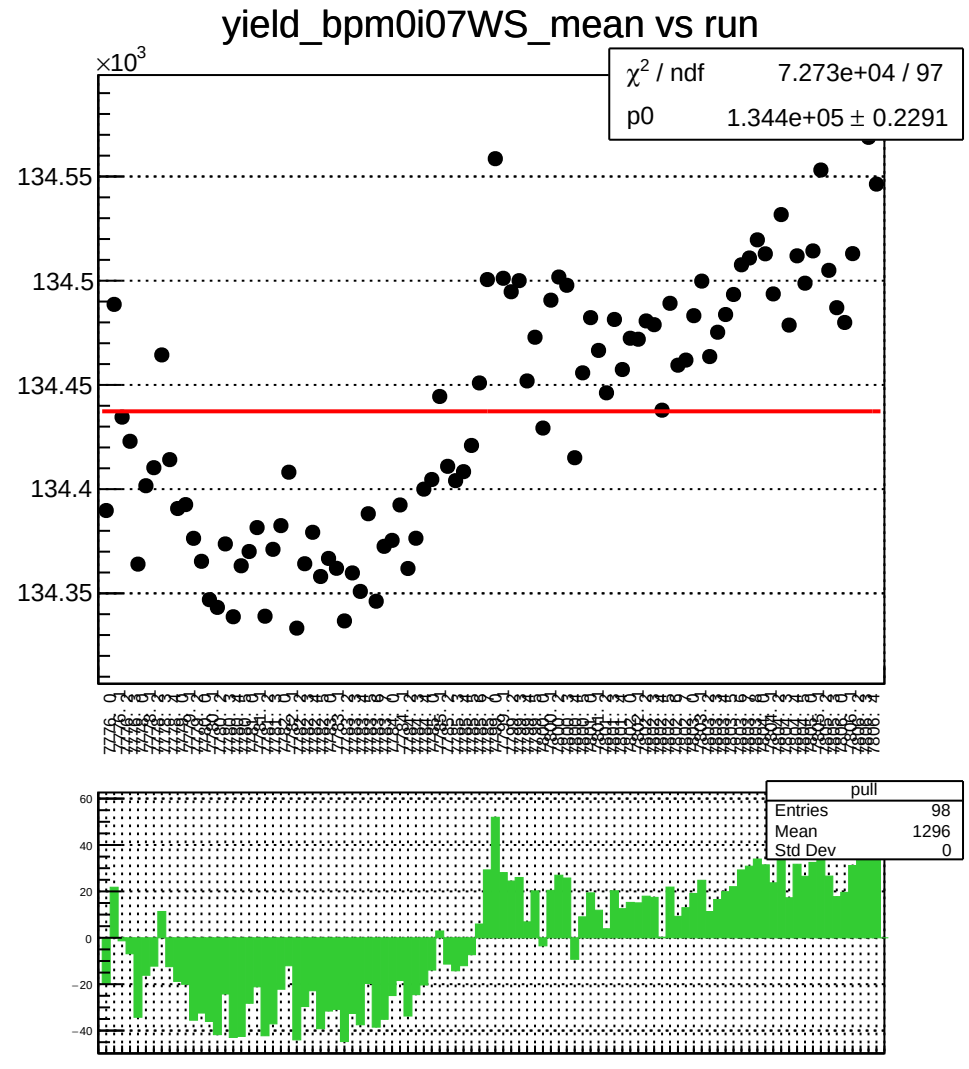

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 4.628e+05 / 97
p0 1.47e+05 ± 0.2599
147.6
147.4
147.2
147
146.8
146.6
pull
Entries 98
Mean 317.6
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

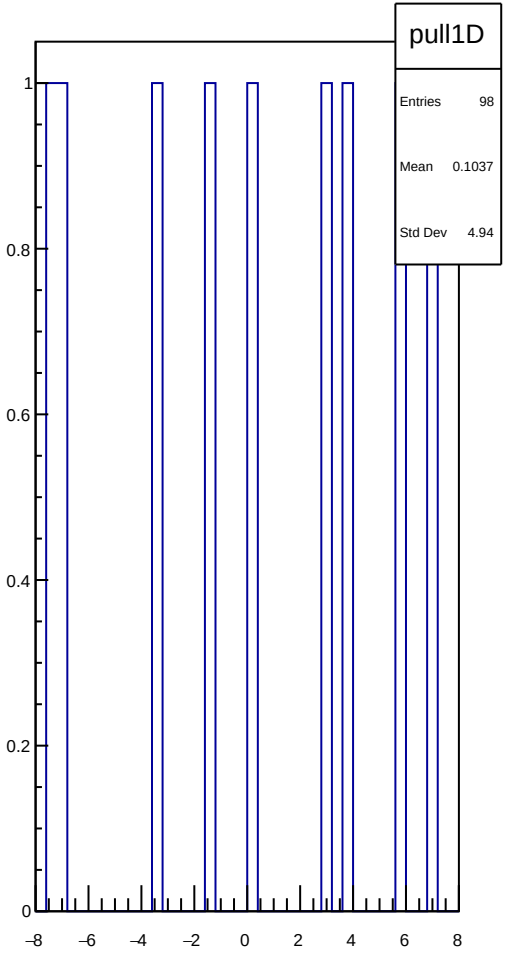

pull1D
Entries 98
Mean −2.533
Std Dev 4.037
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

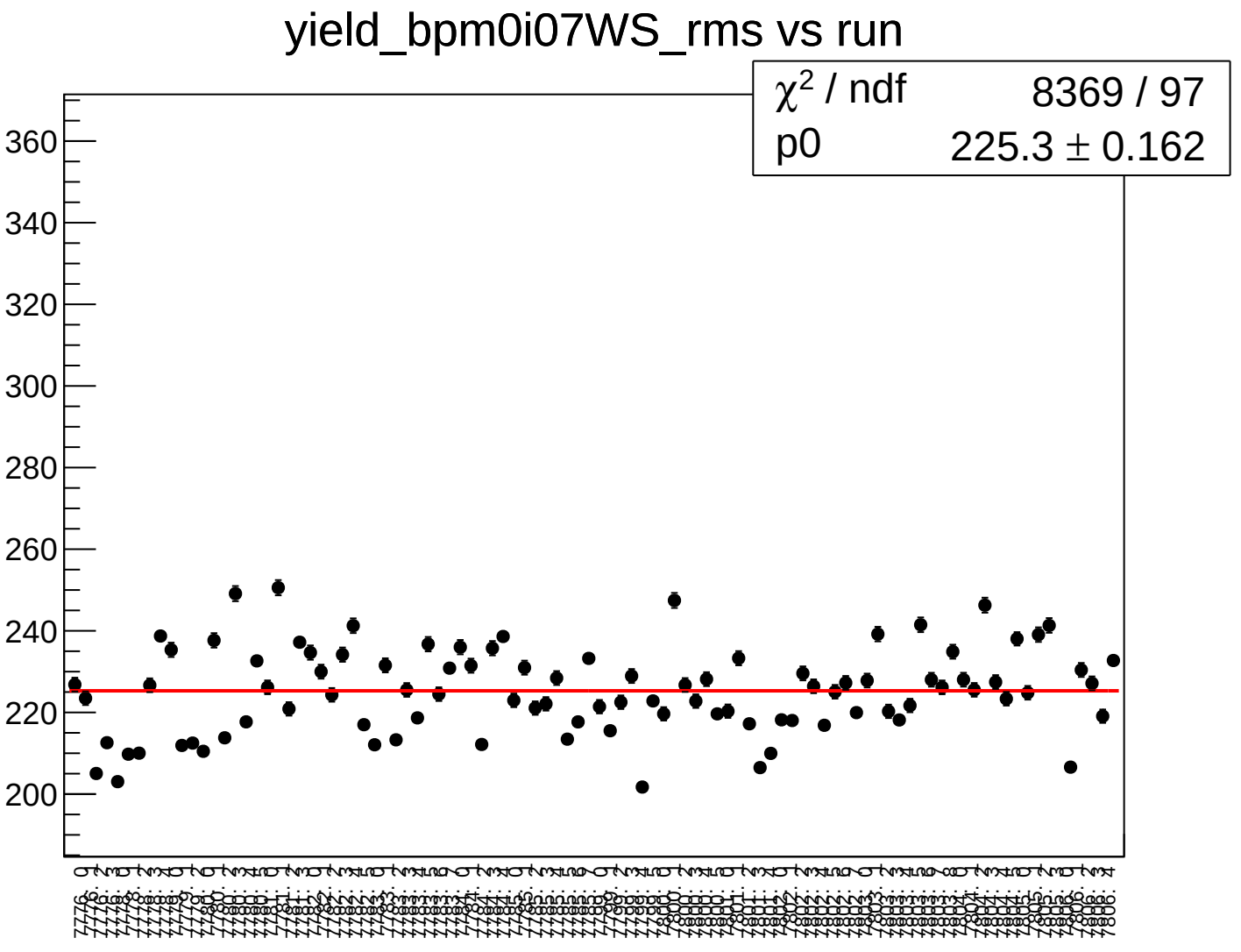

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.372e+04 / 97
p0 255.3 ± 0.1838
500
450
400
350
300
250
200

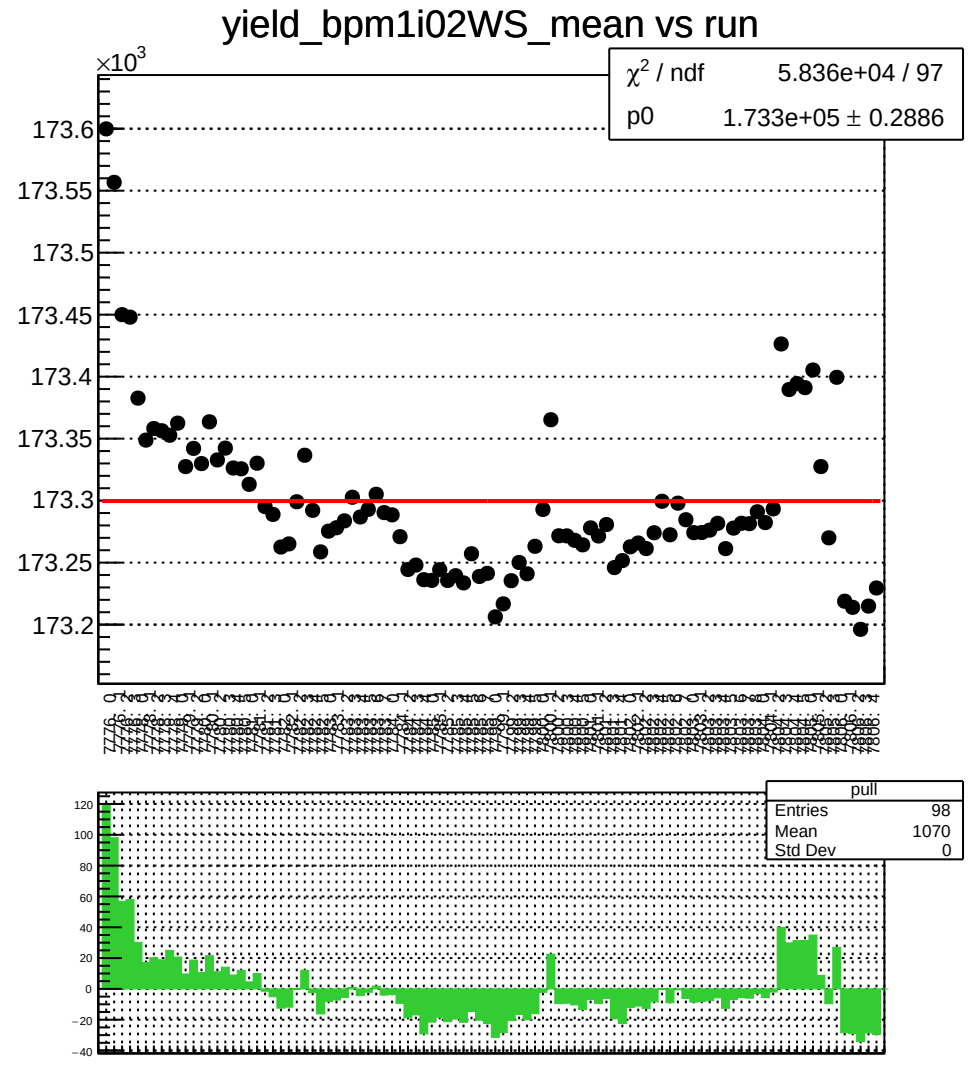

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 2.306e+05 / 97
p0 1.348e+05 ± 0.2268
135.2
135.1
135
134.9
134.8
134.7
134.6
134.5
pull
Entries 98
Mean 6.65e+04
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 98
Mean −0.1763
Std Dev 4.552
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

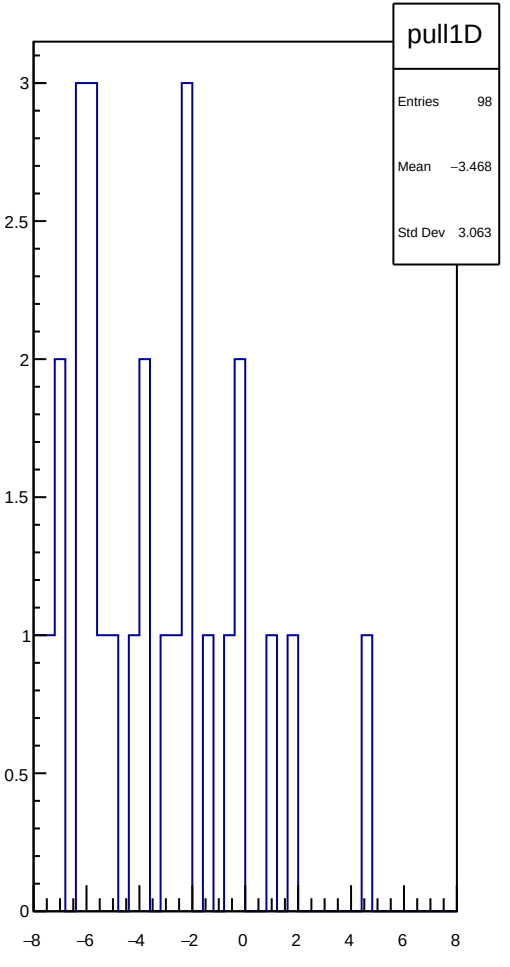

yield_bpm0i05WS_rms vs run
χ² / ndf 1.156e+04 / 97
p0 222.8 ± 0.1604
380
360
340
320
300
280
260
240
220
200
180

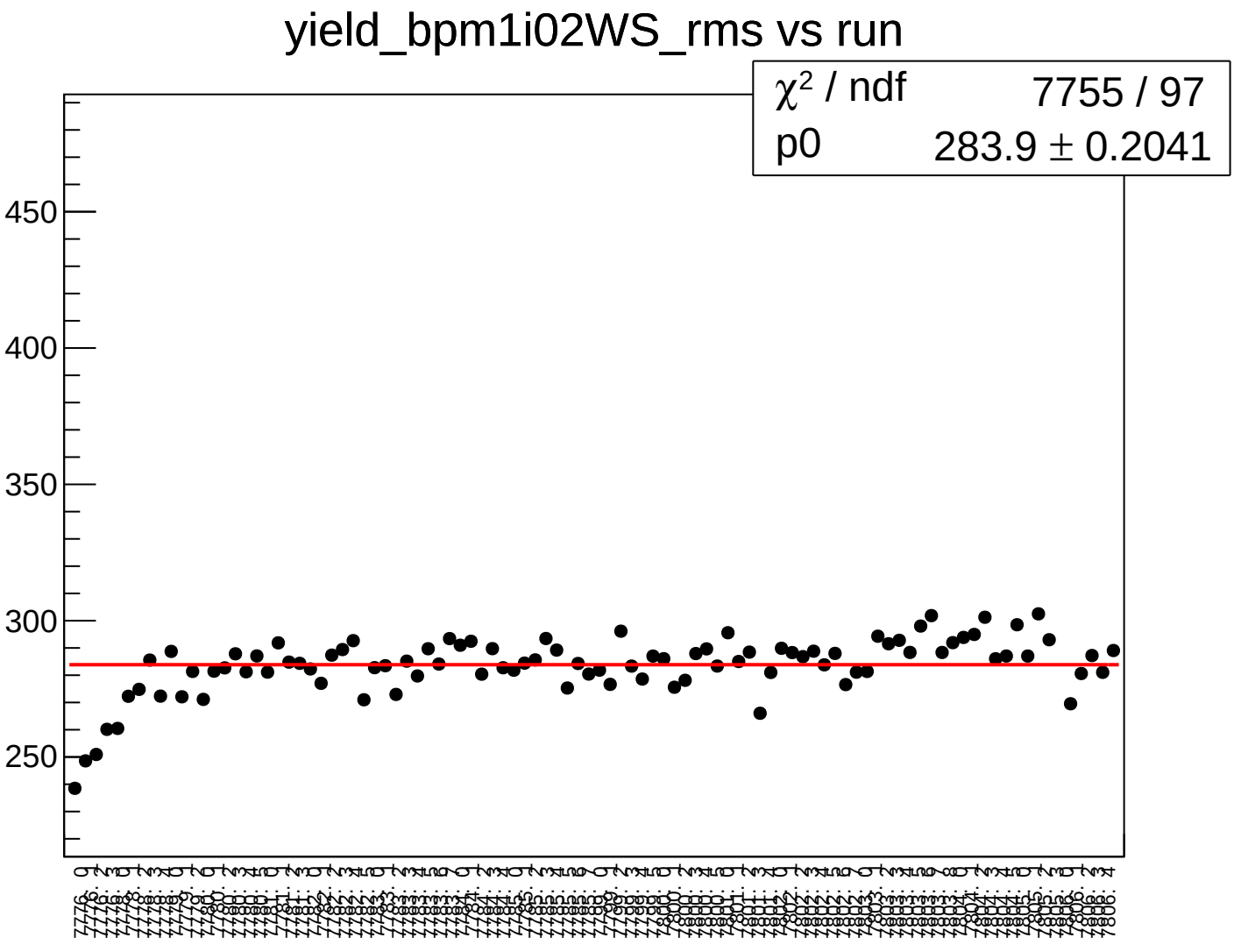

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 7.273e+04 / 97
p0 1.344e+05 ± 0.2291
134.55
134.5
134.45
134.4
134.35
pull
Entries 98
Mean 1296
Std Dev 0
60
40
20
0
−20
−40

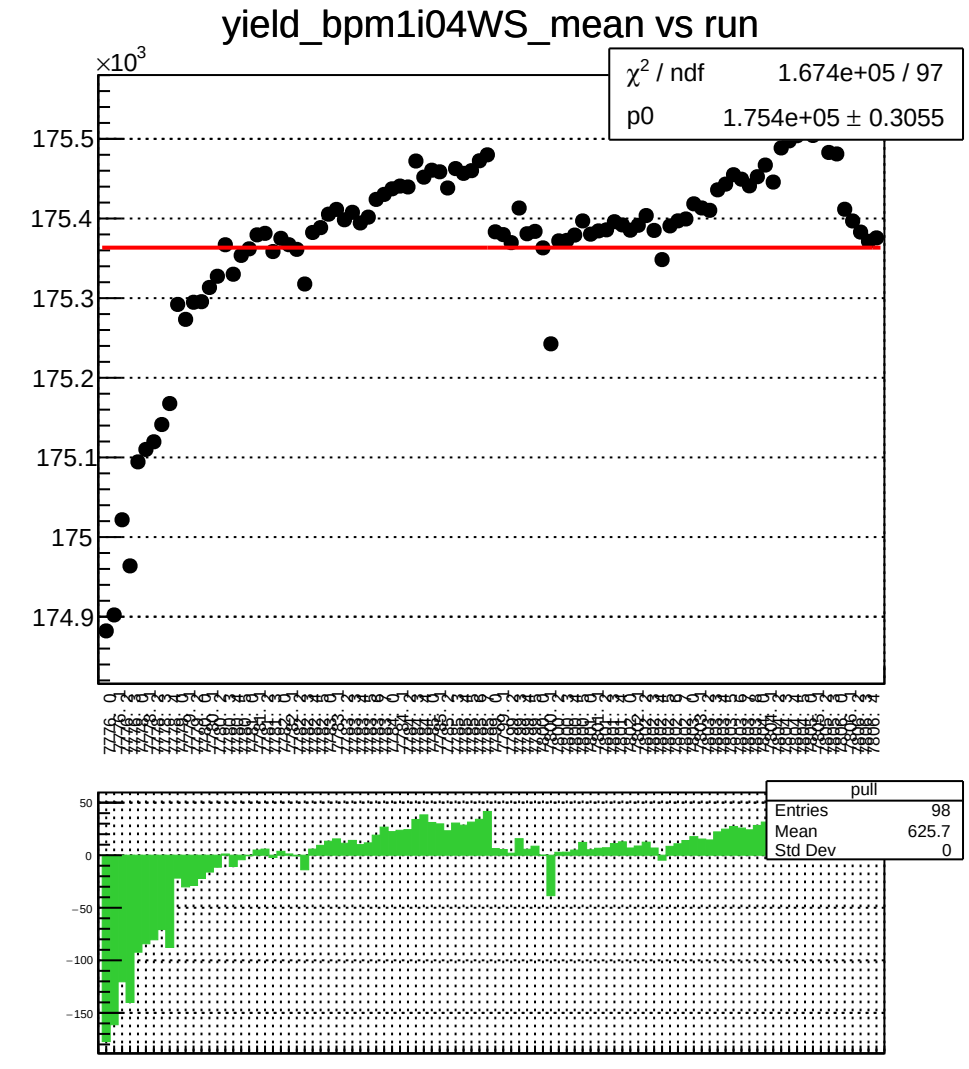

pull1D
Entries 98
Mean 0.1037
Std Dev 4.94
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

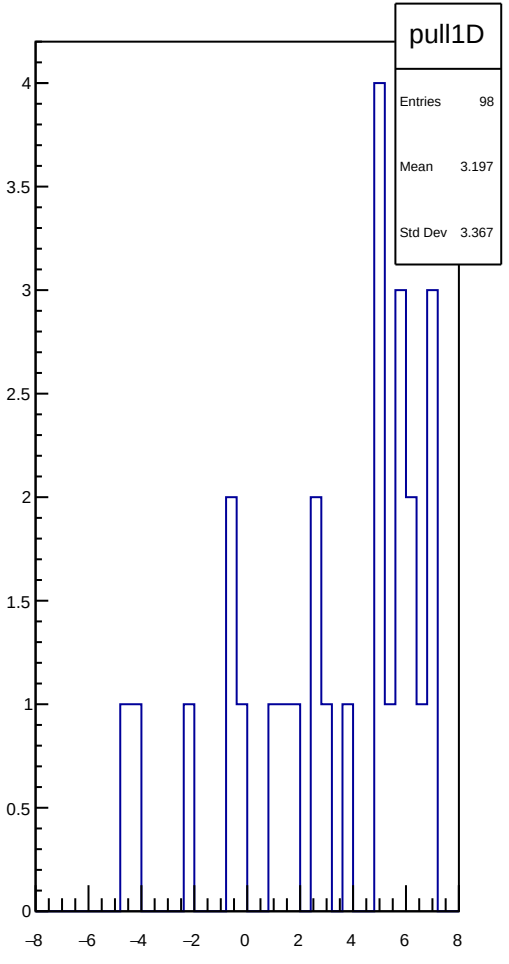

yield_bpm0i07WS_rms vs run
χ² / ndf 8369 / 97
p0 225.3 ± 0.162
360
340
320
300
280
260
240
220
200

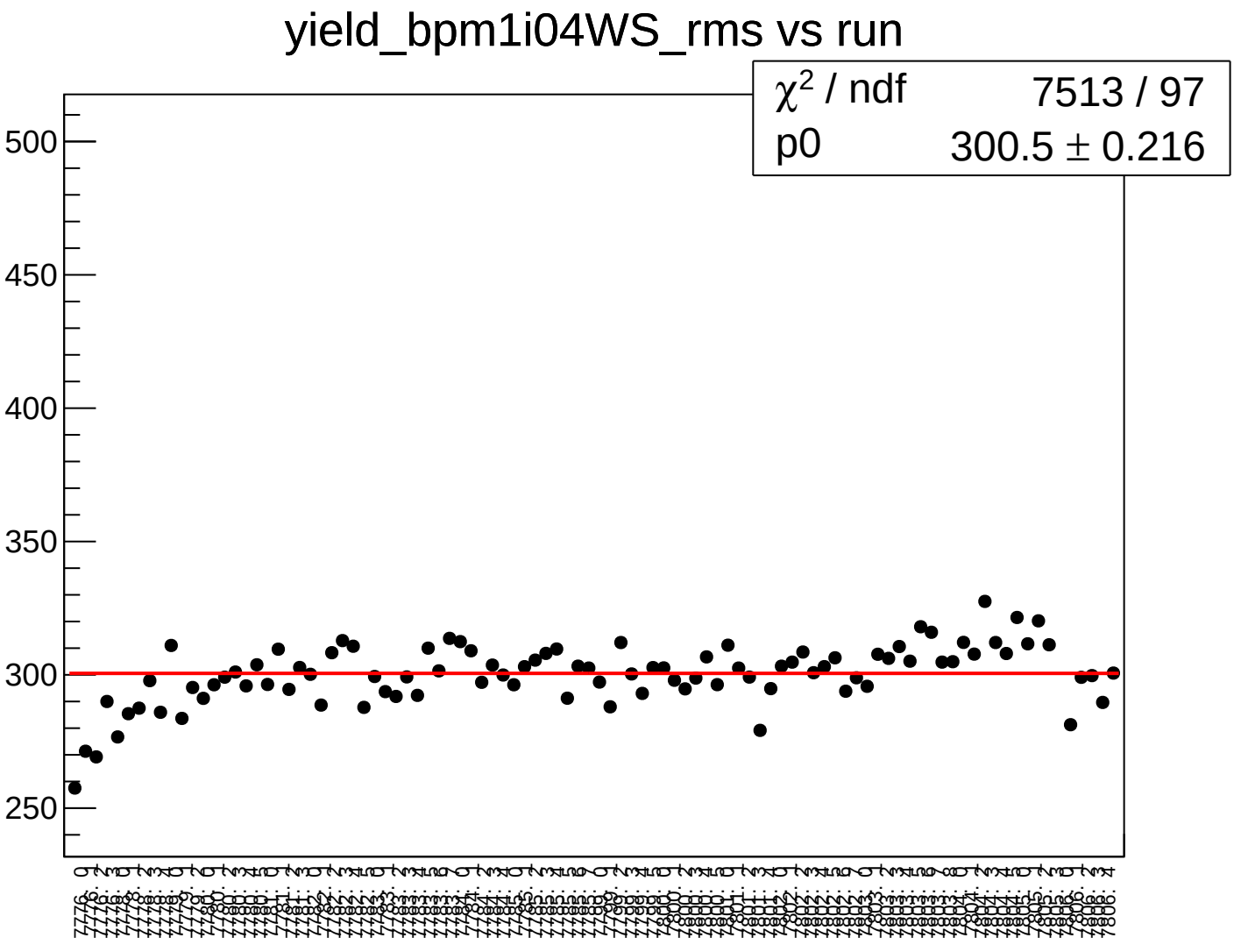

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 5.836e+04 / 97
p0 1.733e+05 ± 0.2886
173.6
173.55
173.5
173.45
173.4
173.35
173.3
173.25
173.2
pull
Entries 98
Mean 1070
Std Dev 0
120
100
80
60
40
20
0
−20
−40

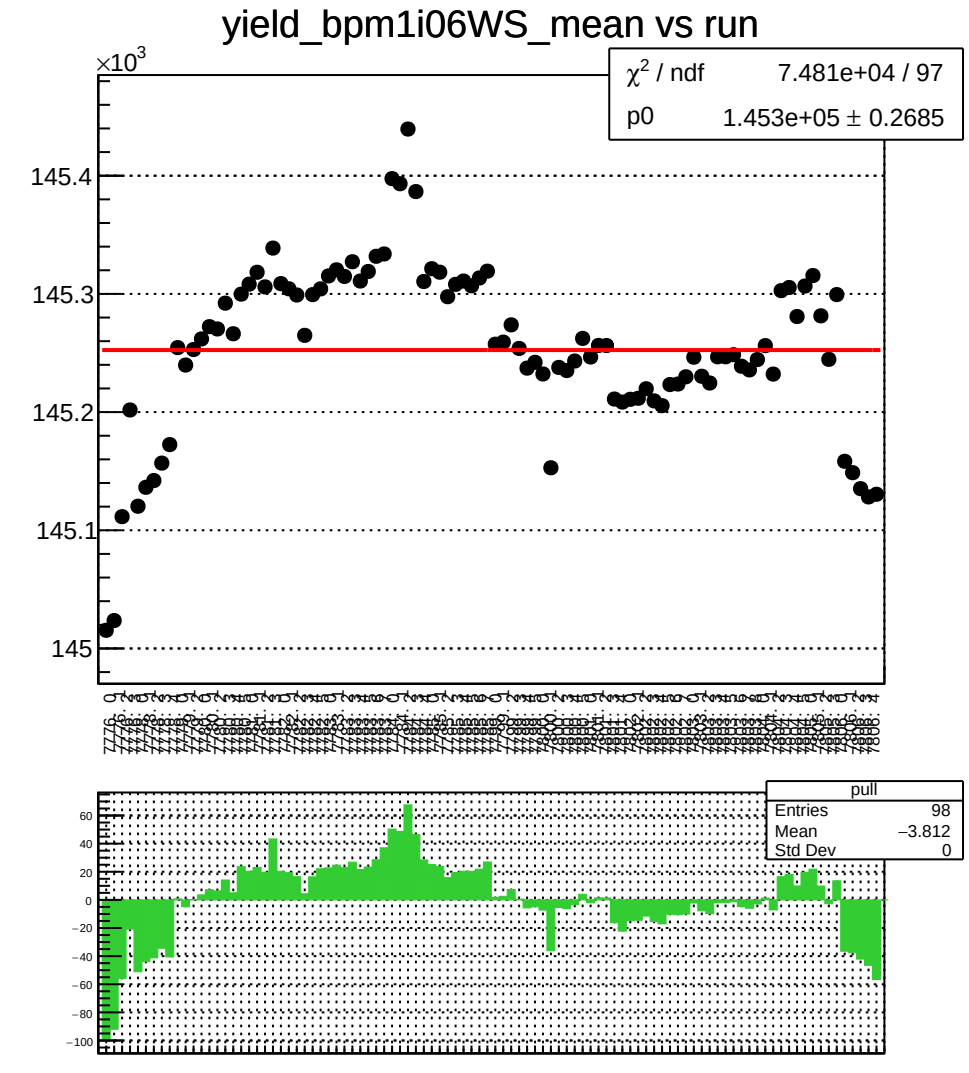

pull1D
Entries 98
Mean −3.468
Std Dev 3.063
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

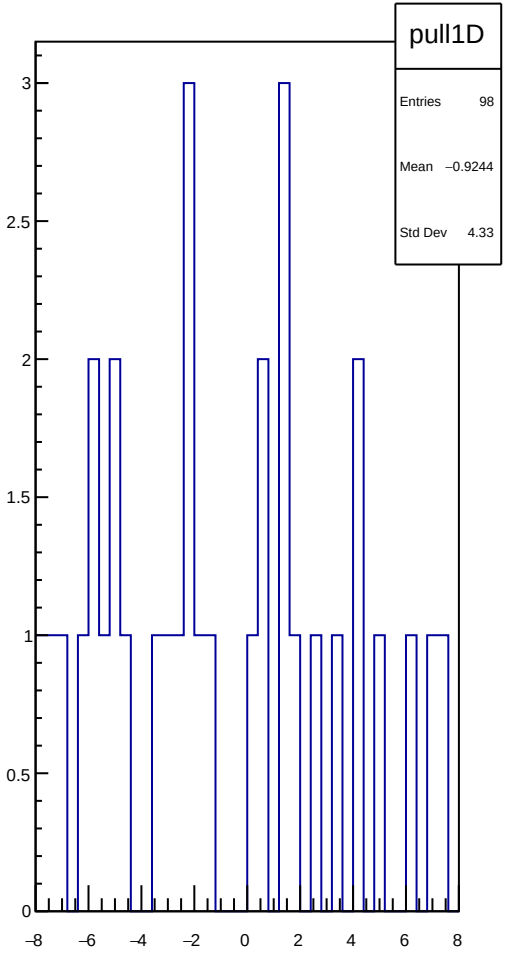

yield_bpm1i02WS_rms vs run
χ² / ndf 7755 / 97
p0 283.9 ± 0.2041
450
400
350
300
250

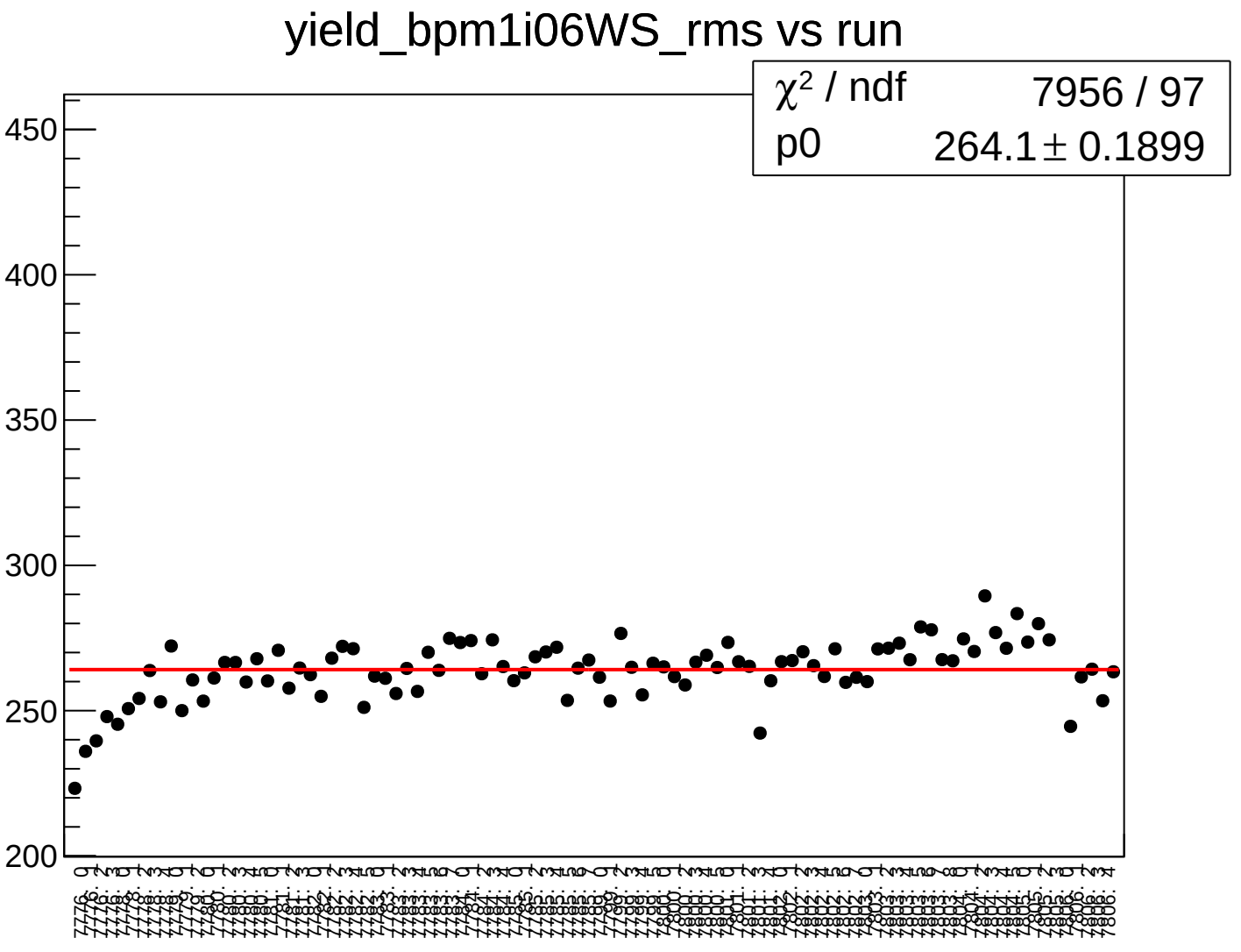

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.674e+05 / 97
p0 1.754e+05 ± 0.3055
175.5
175.4
175.3
175.2
175.1
175
174.9
pull
Entries 98
Mean 625.7
Std Dev 0
50
0
−50
−100
−150

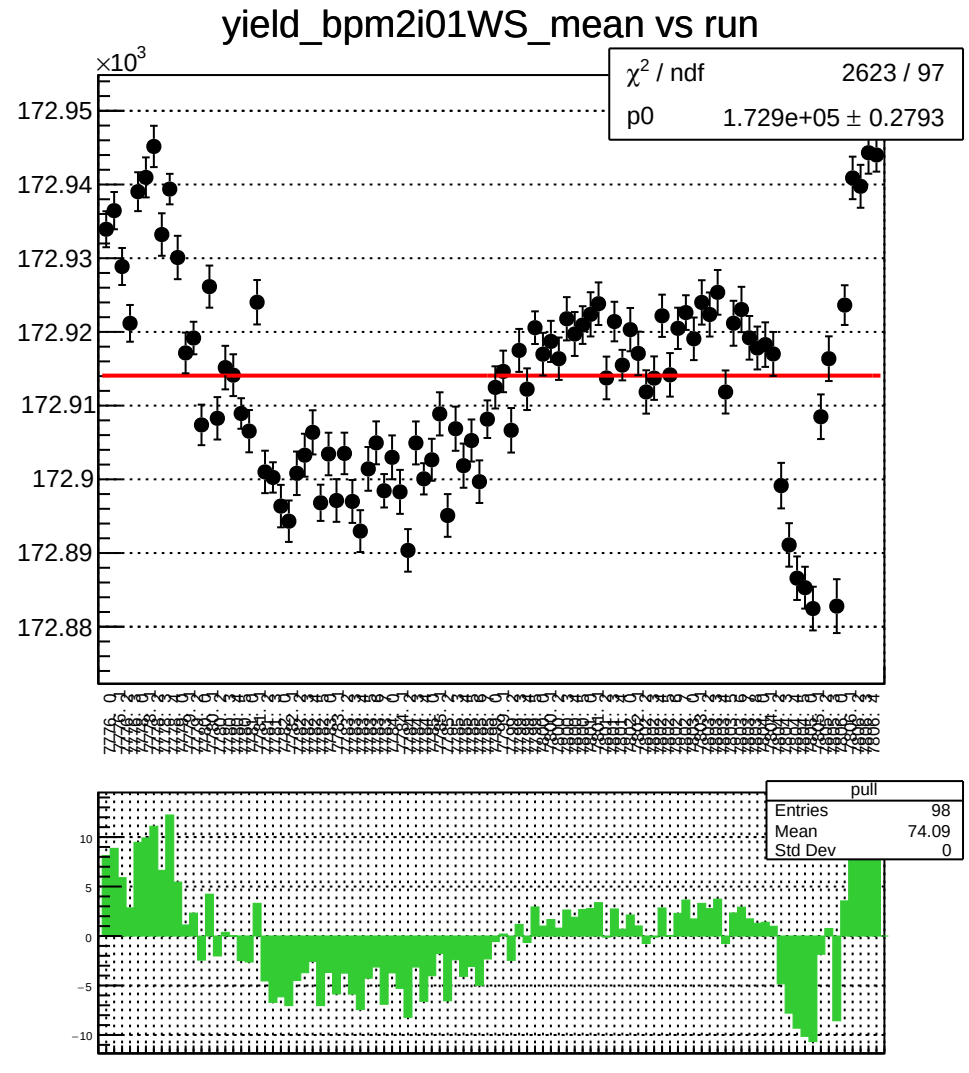

pull1D
Entries 98
Mean 3.197
Std Dev 3.367
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

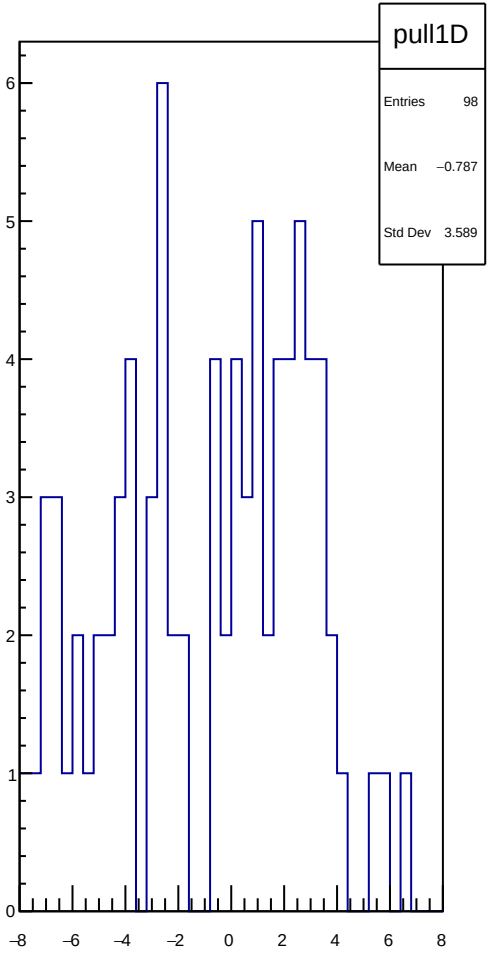

yield_bpm1i04WS_rms vs run
χ² / ndf 7513 / 97
p0 300.5 ± 0.216
500
450
400
350
300
250

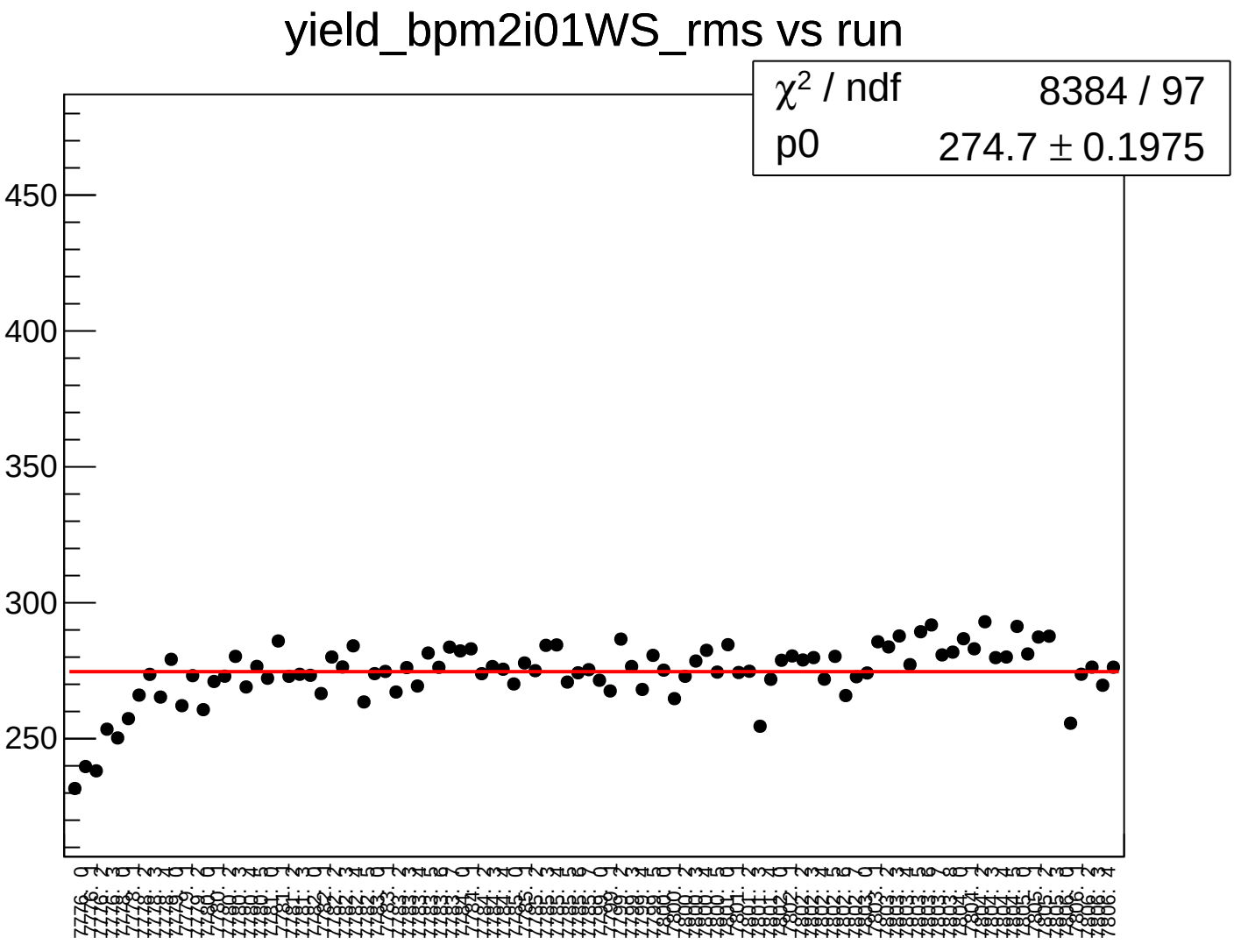

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 7.481e+04 / 97
p0 1.453e+05 ± 0.2685
145.4
145.3
145.2
145.1
145
pull
Entries 98
Mean −3.812
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

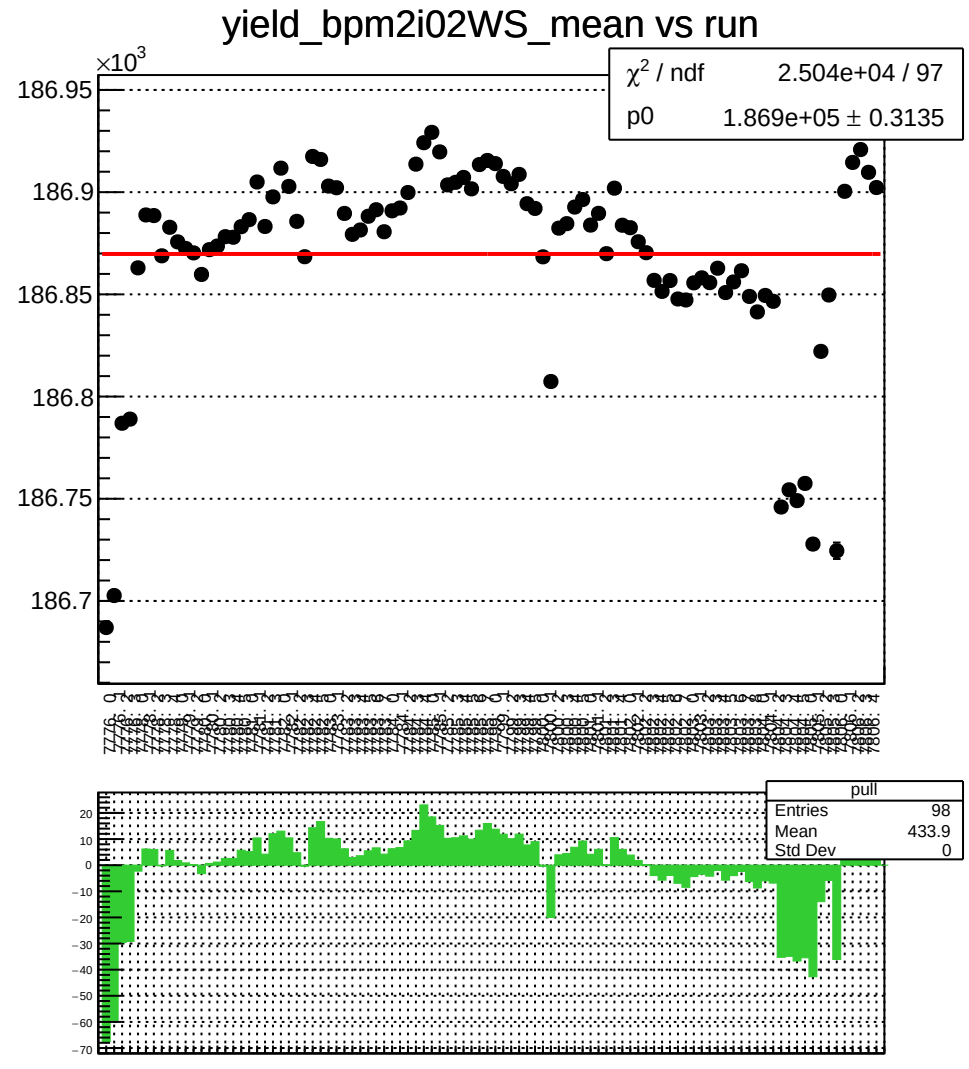

pull1D
Entries 98
Mean −0.9244
Std Dev 4.33
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

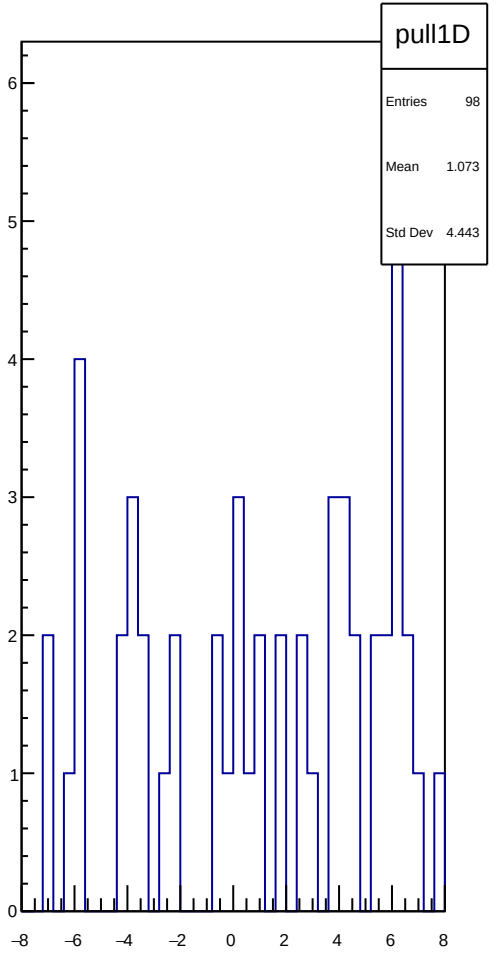

yield_bpm1i06WS_rms vs run
χ² / ndf 7956 / 97
p0 264.1 ± 0.1899
450
400
350
300
250
200

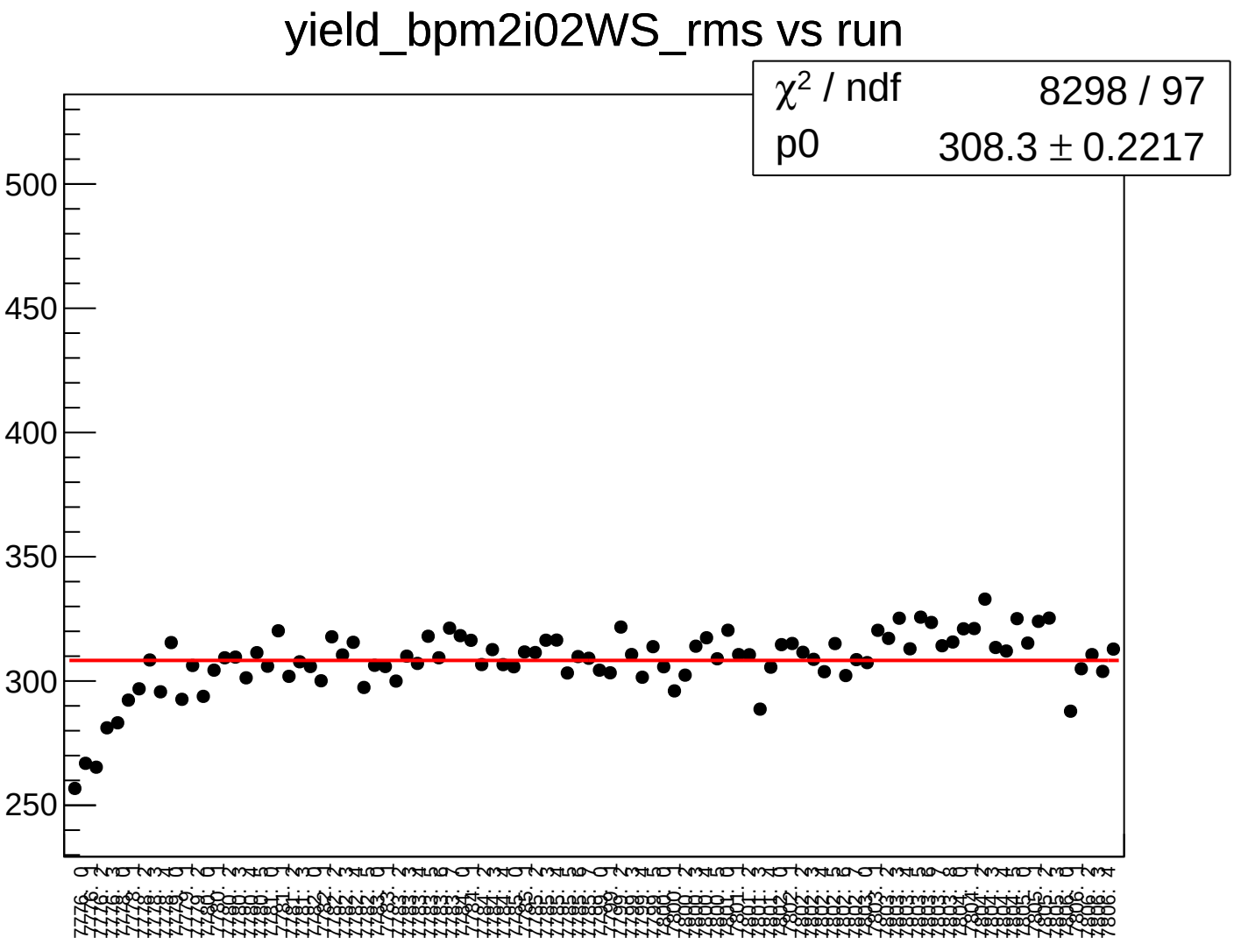

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2623 / 97
p0 1.729e+05 ± 0.2793
172.95
172.94
172.93
172.92
172.91
172.9
172.89
172.88
pull
Entries 98
Mean 74.09
Std Dev 0
10
5
0
−5
−10

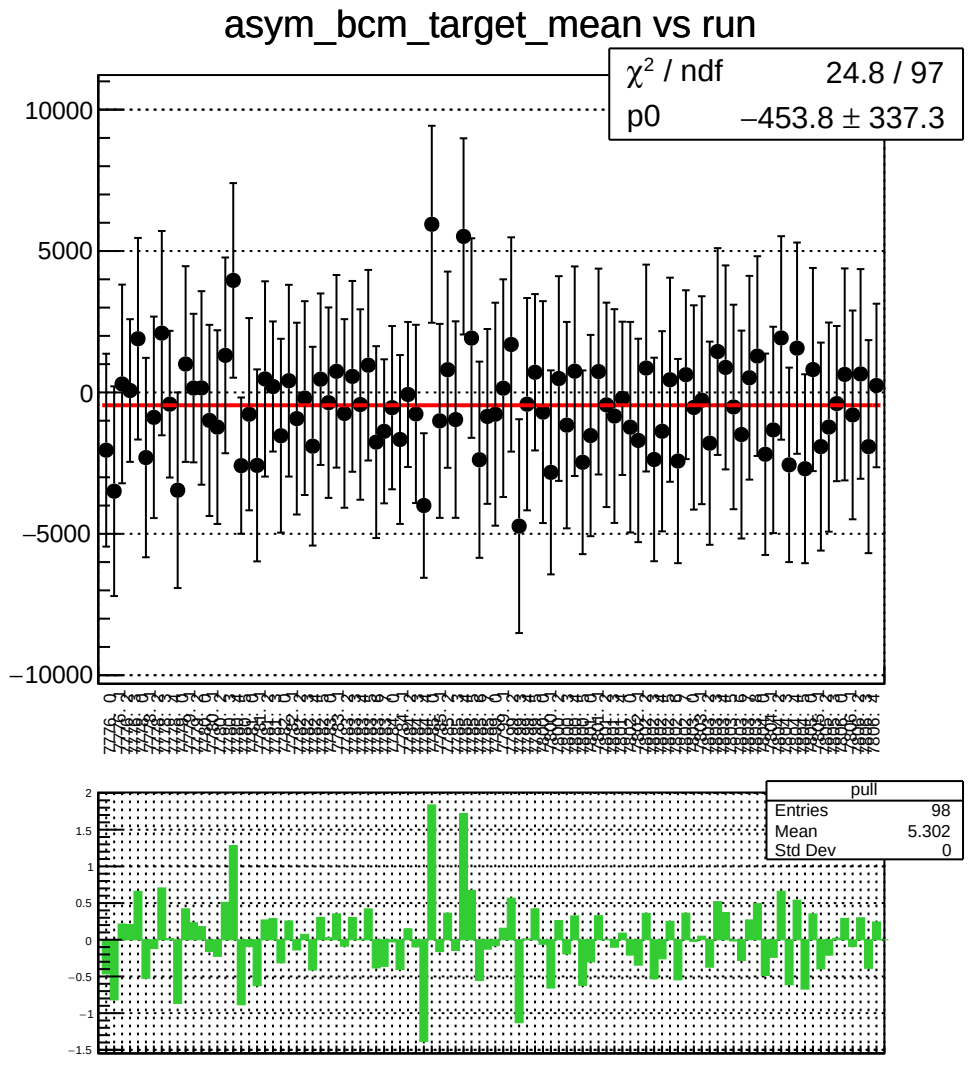

pull1D
Entries 98
Mean −0.787
Std Dev 3.589
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

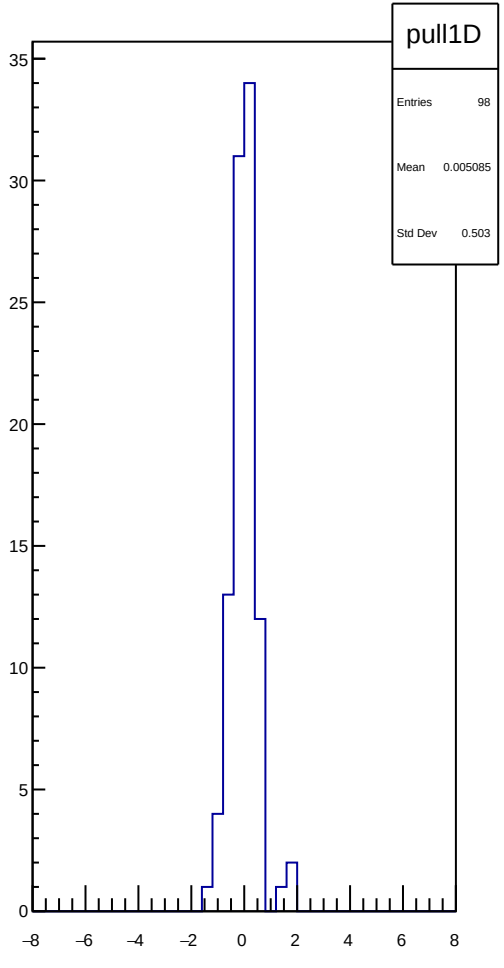

yield_bpm2i01WS_rms vs run
χ² / ndf 8384 / 97
p0 274.7 ± 0.1975
450
400
350
300
250

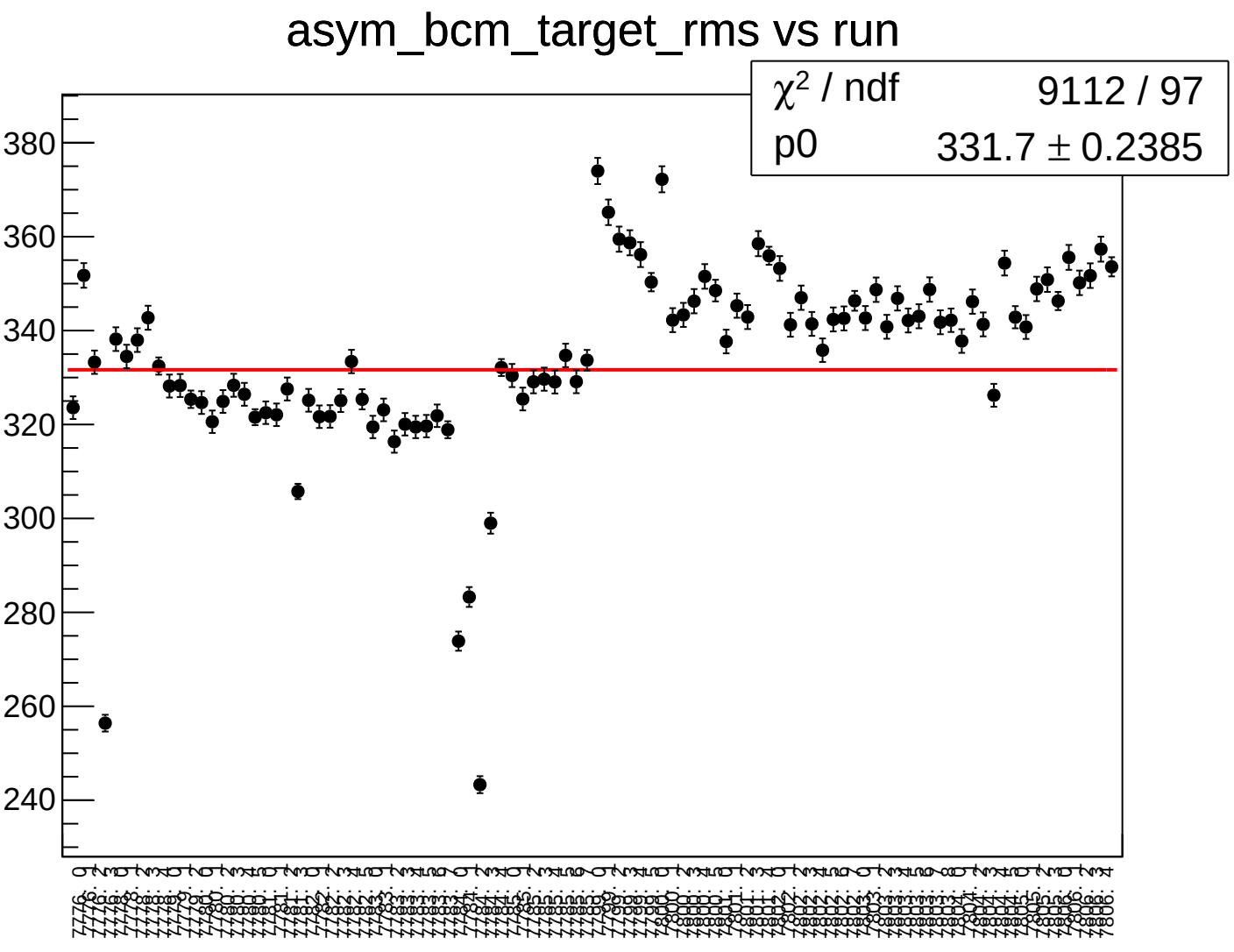

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.504e+04 / 97
p0 1.869e+05 ± 0.3135
186.95
186.9
186.85
186.8
186.75
186.7
pull
Entries 98
Mean 433.9
Std Dev 0
20
10
0
−10
−20
−30
−40
−50
−60
−70

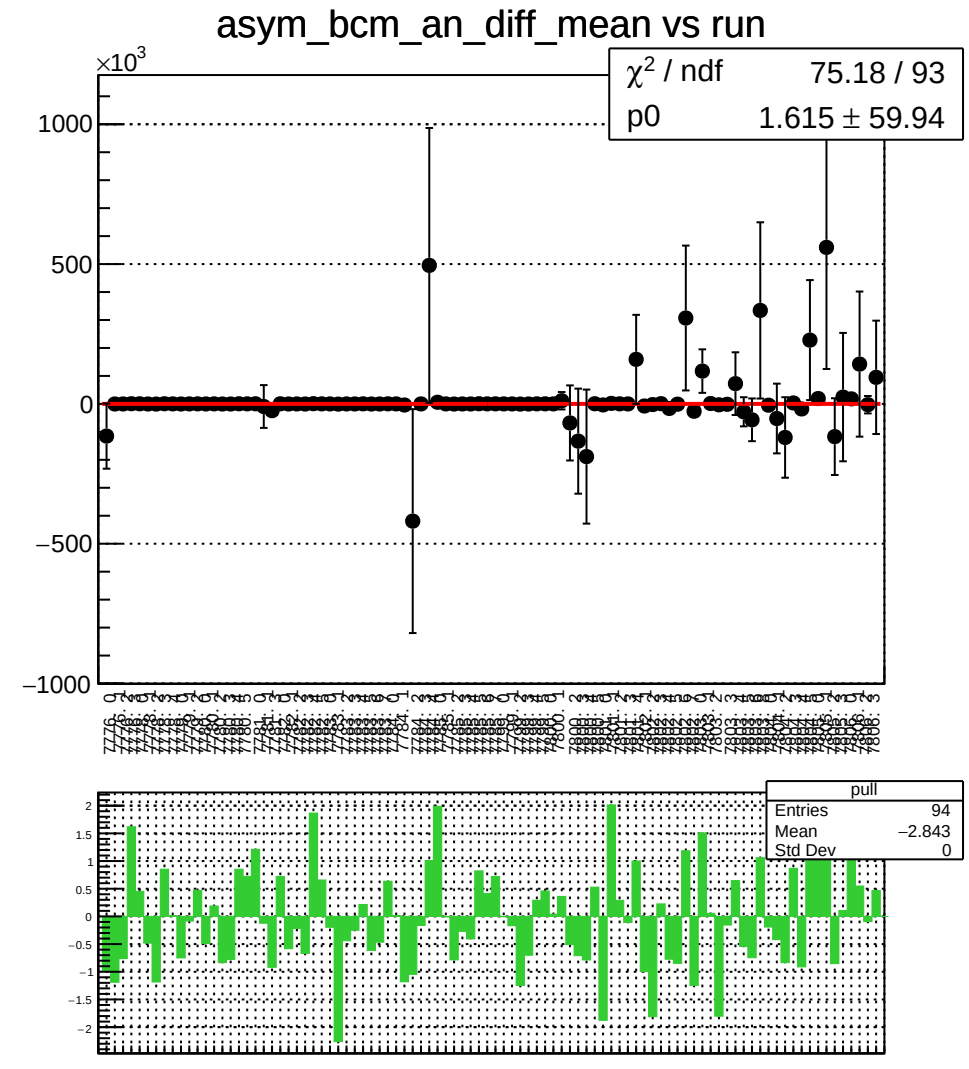

pull1D
Entries 98
Mean 1.073
Std Dev 4.443
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

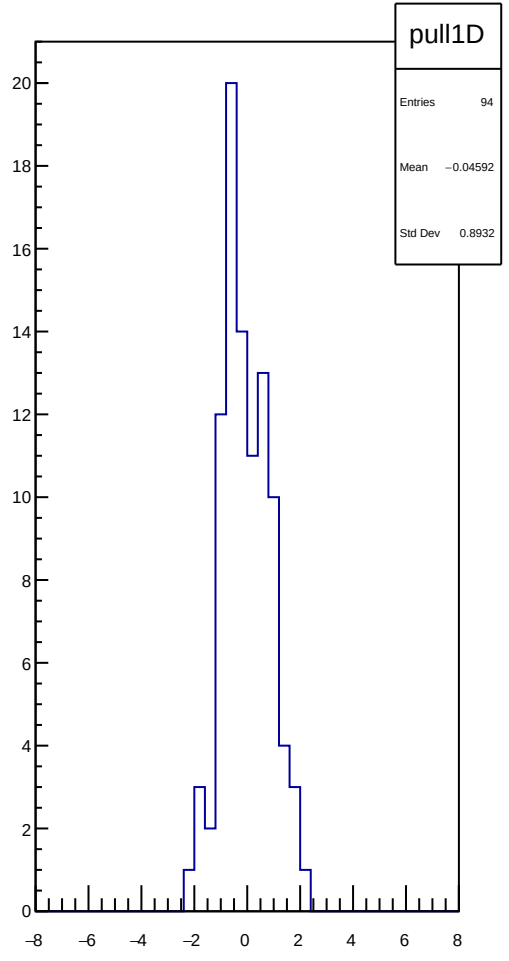

yield_bpm2i02WS_rms vs run
χ² / ndf 8298 / 97
p0 308.3 ± 0.2217
500
450
400
350
300
250

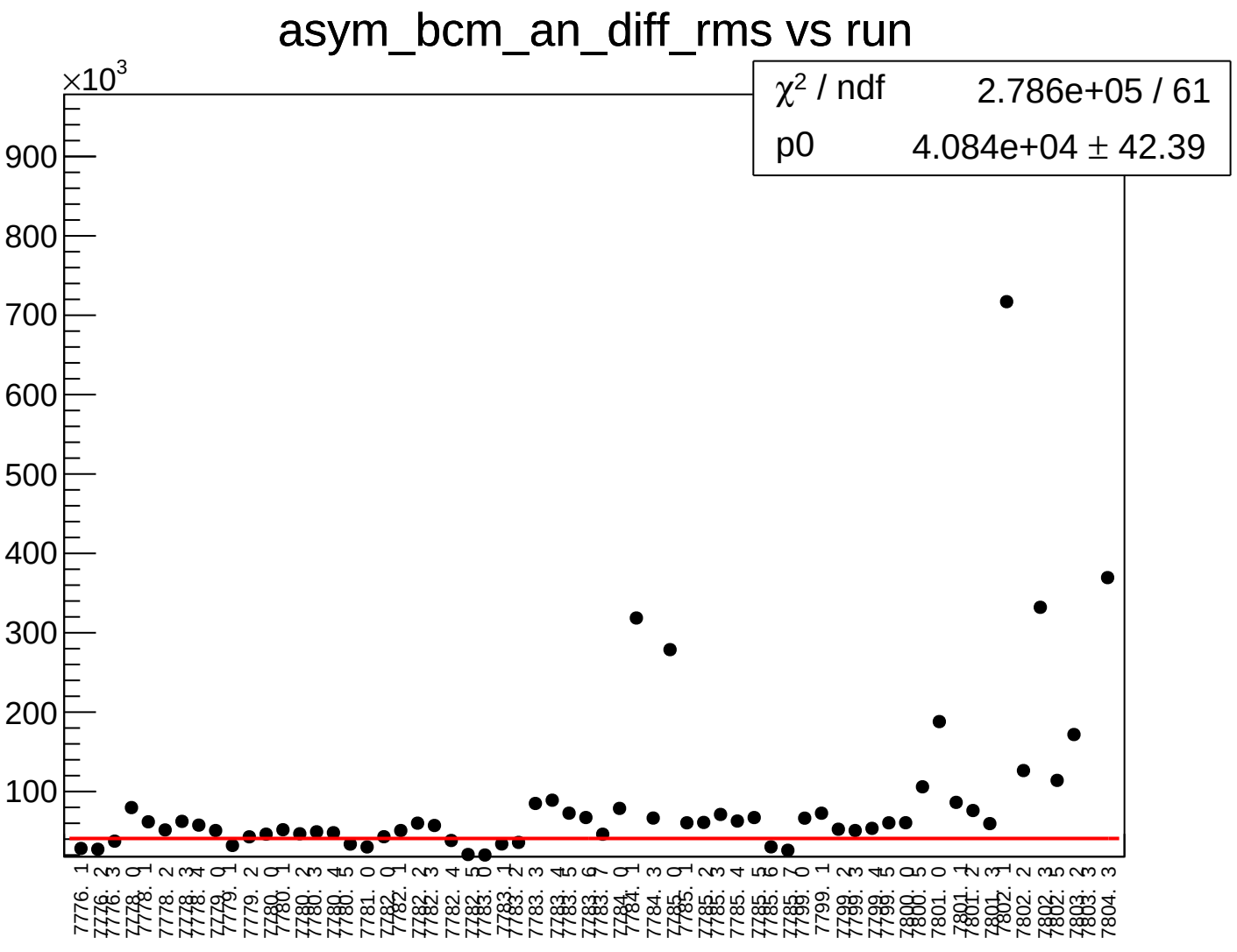

asym_bcm_target_mean vs run
χ² / ndf 24.8 / 97
p0 −453.8 ± 337.3
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 5.302
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

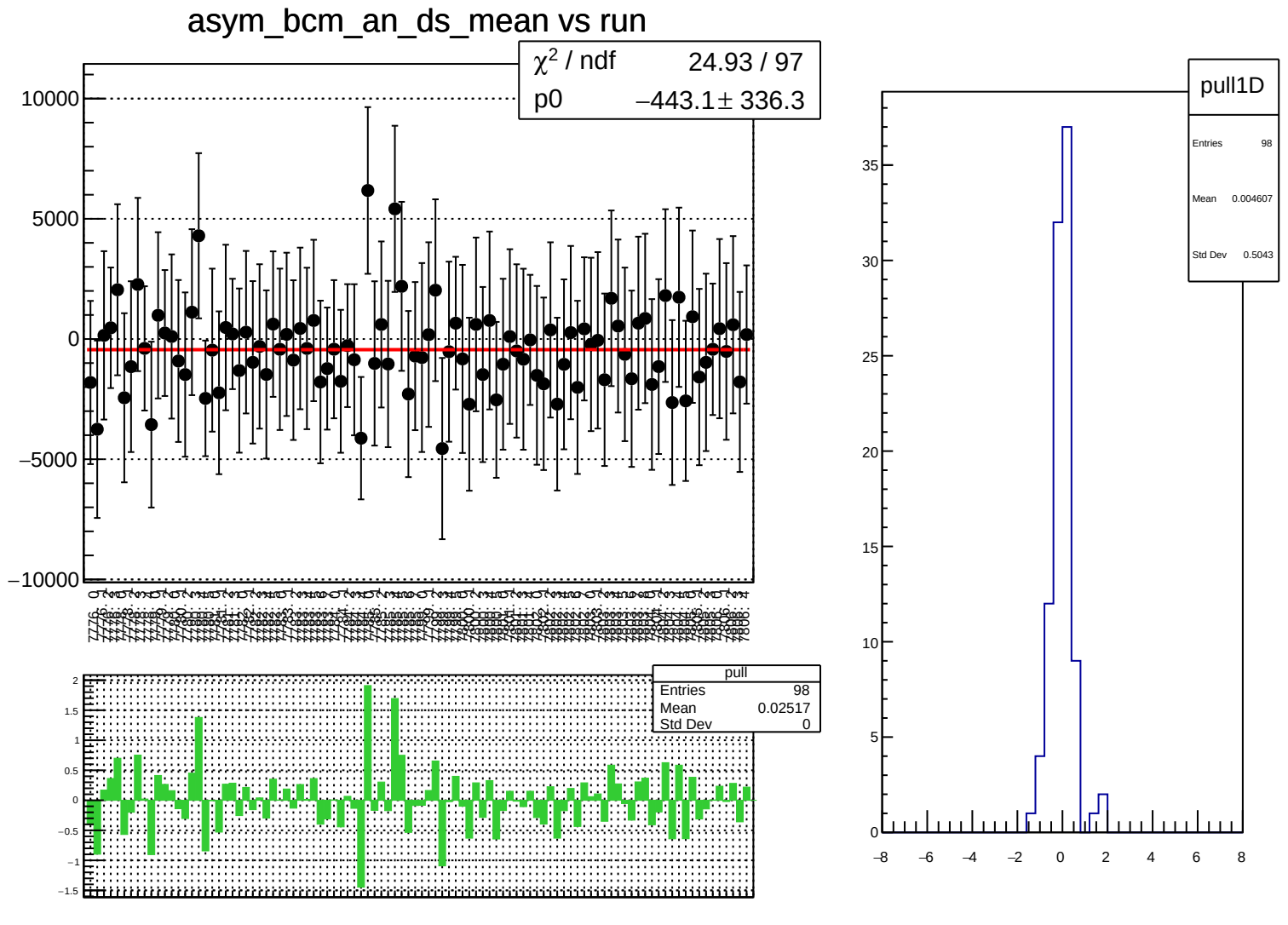

pull1D
Entries 98
Mean 0.005085
Std Dev 0.503
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

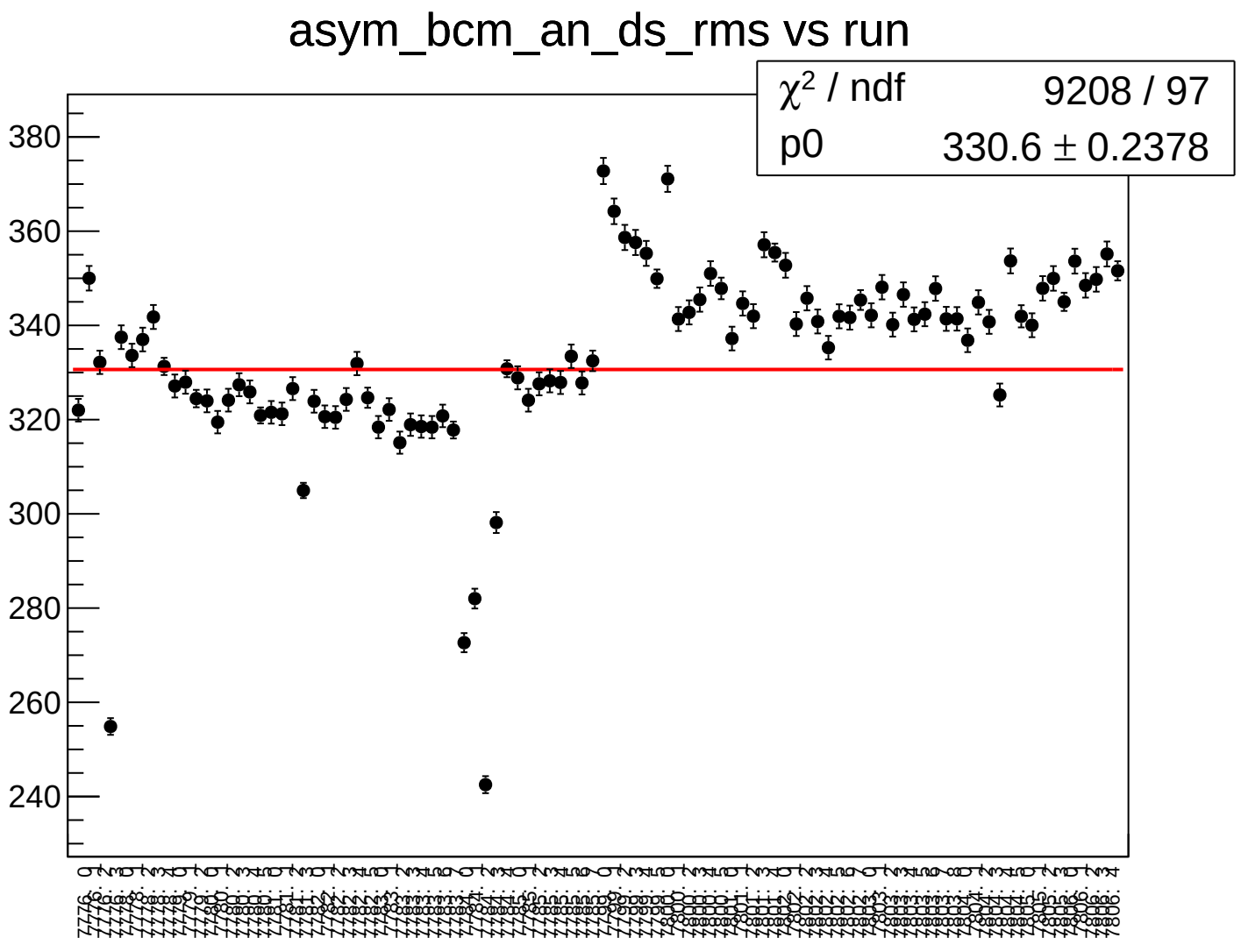

asym_bcm_target_rms vs run
χ^2 / ndf 9112 / 97
p0 331.7 ± 0.2385
380
360
340
320
300
280
260
240

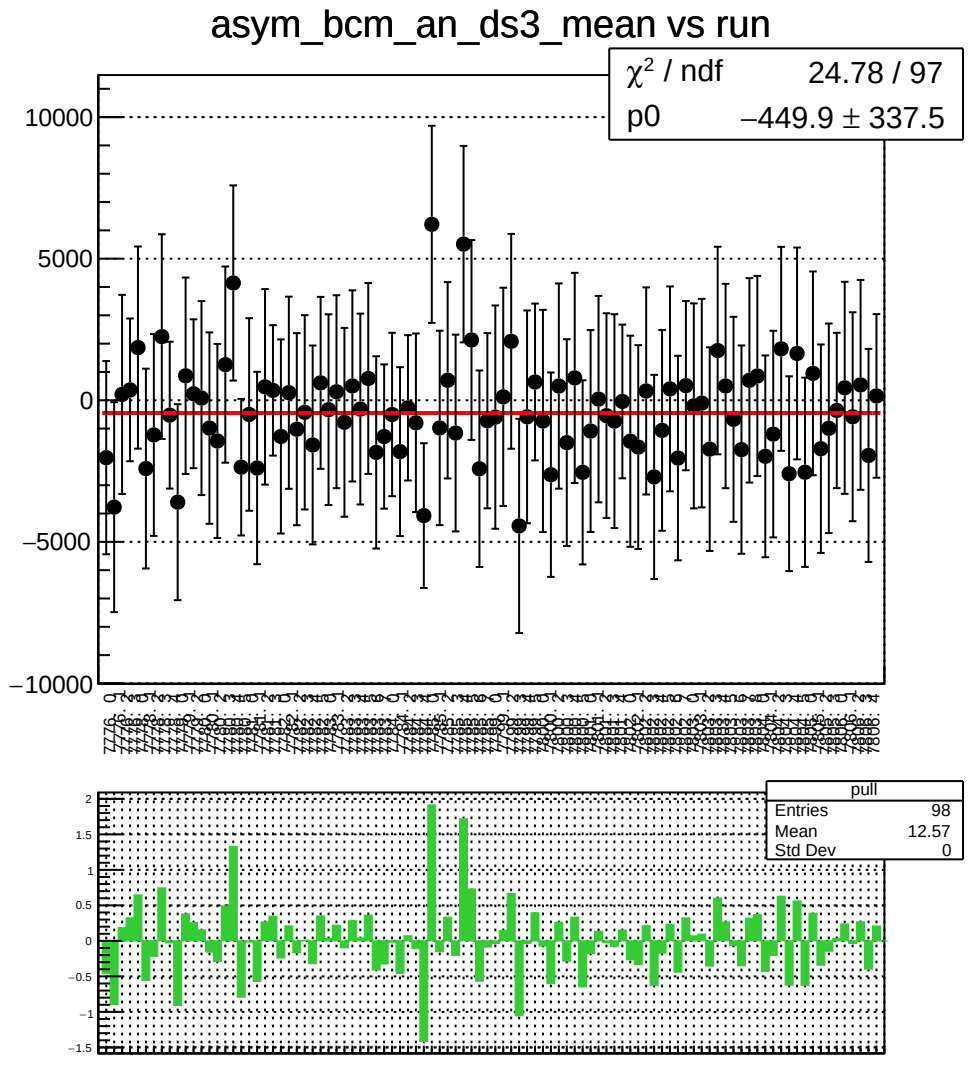

asym_bcm_an_diff_mean vs run
×10^3
χ^2 / ndf 75.18 / 93
p0 1.615 ± 59.94
1000
500
0
−500
−1000
pull
Entries 94
Mean −2.843
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

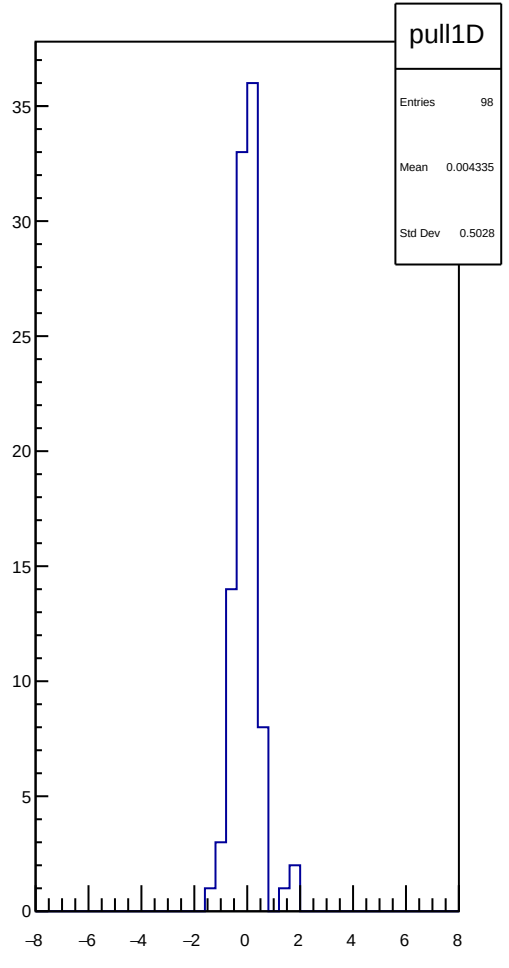

pull1D
Entries 94
Mean −0.04592
Std Dev 0.8932
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

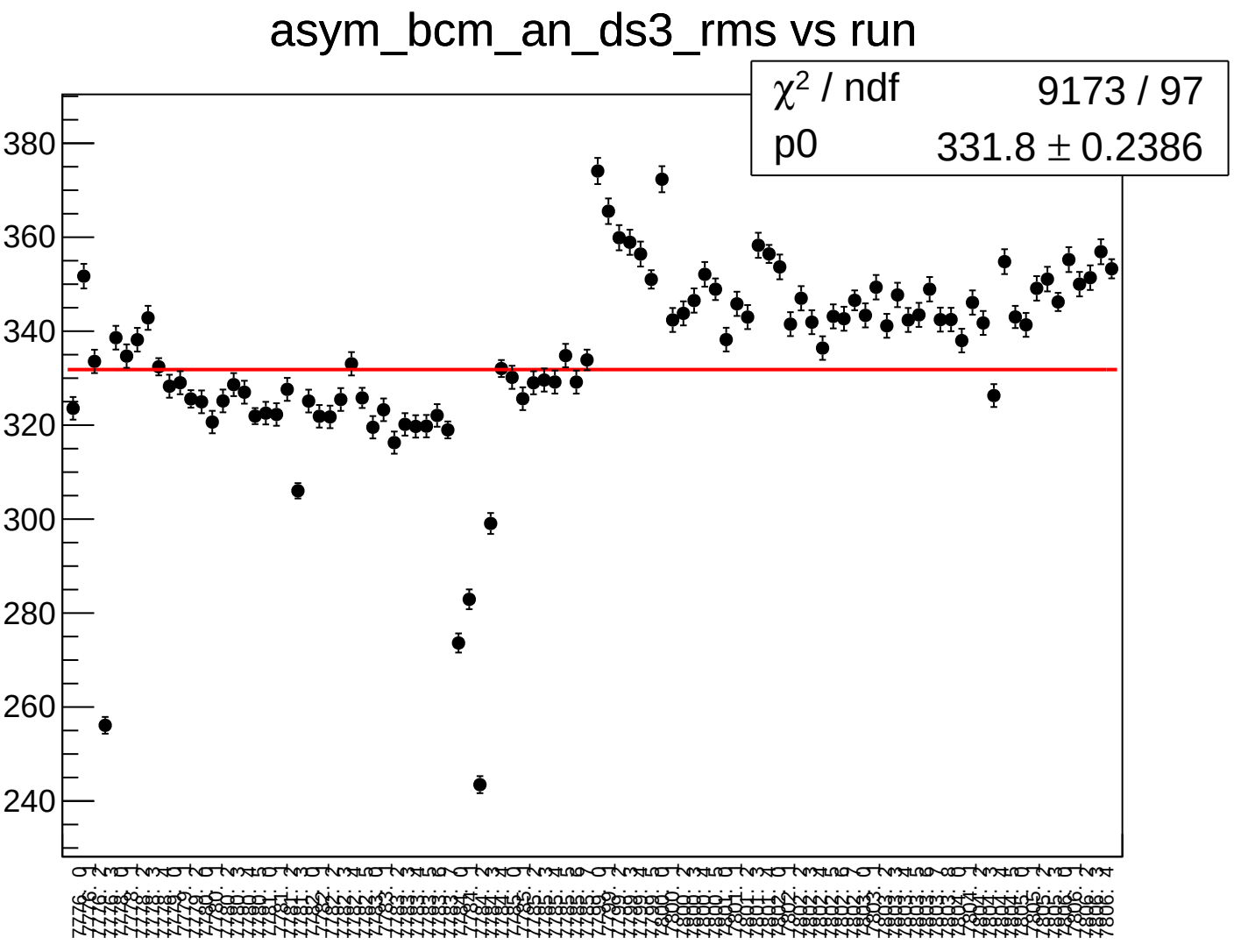

asym_bcm_an_diff_rms vs run
×10^3
χ^2 / ndf 2.786e+05 / 61
p0 4.084e+04 ± 42.39
900
800
700
600
500
400
300
200
100
7776. 1
7776. 2
7776. 3
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 3
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
7785. 6
7785. 7
7799. 0
7799. 1
7799. 2
7799. 3
7799. 4
7799. 5
7800. 0
7801. 0
7801. 1
7801. 2
7801. 3
7802. 2
7802. 3
7802. 5
7803. 2
7803. 3
7804. 3

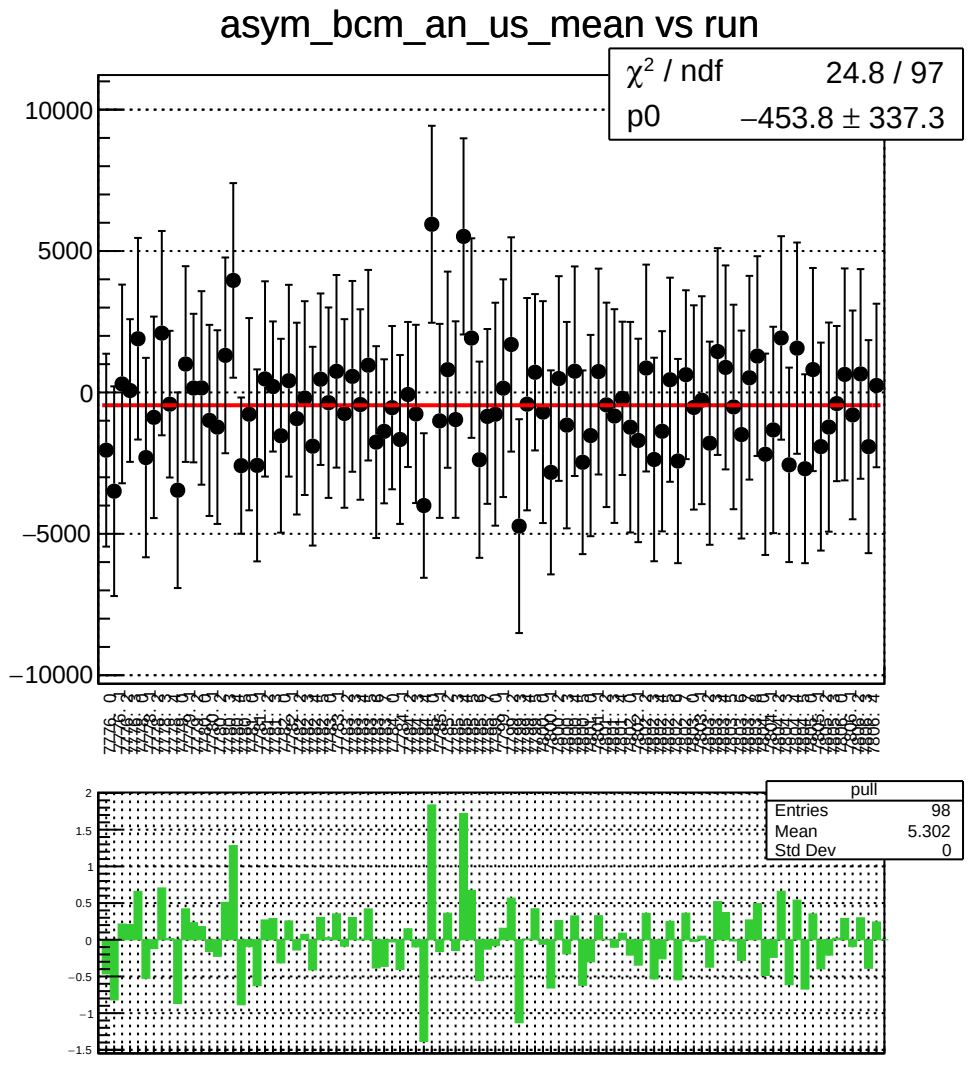

asym_bcm_an_ds_mean vs run
χ² / ndf 24.93 / 97
p0 −443.1 ± 336.3
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 0.02517
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.004607
Std Dev 0.5043
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

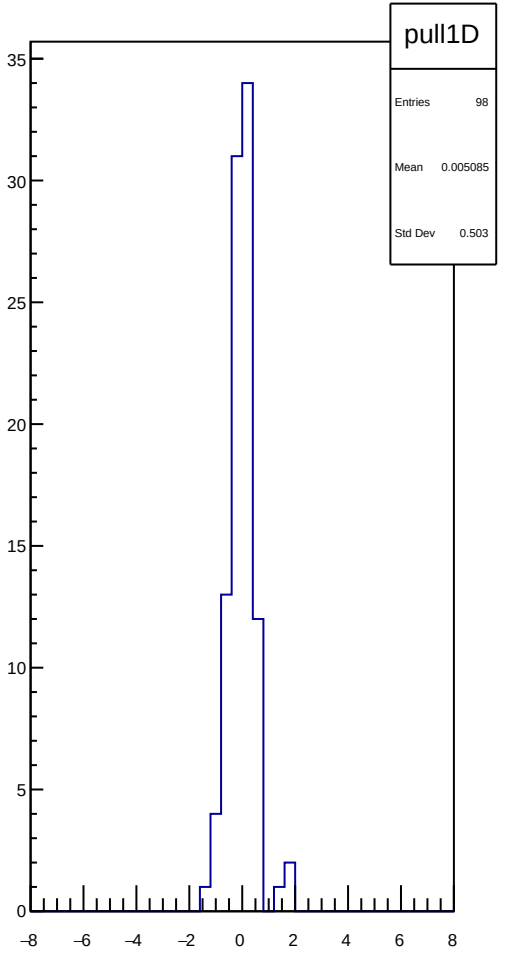

asym_bcm_an_ds_rms vs run
χ^2 / ndf 9208 / 97
p0 330.6 ± 0.2378
380
360
340
320
300
280
260
240

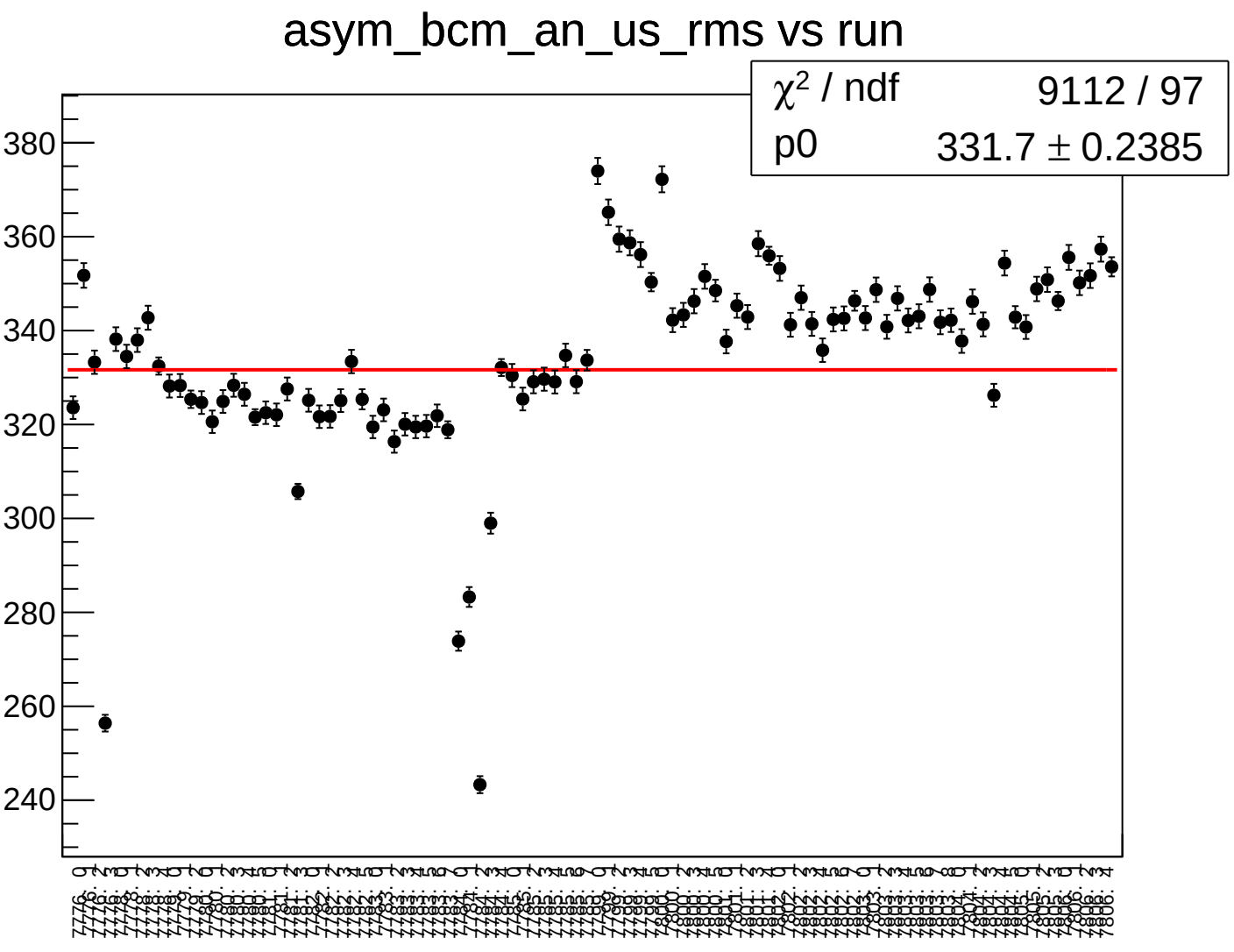

asym_bcm_an_ds3_mean vs run
χ² / ndf 24.78 / 97
p0 −449.9 ± 337.5
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 12.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

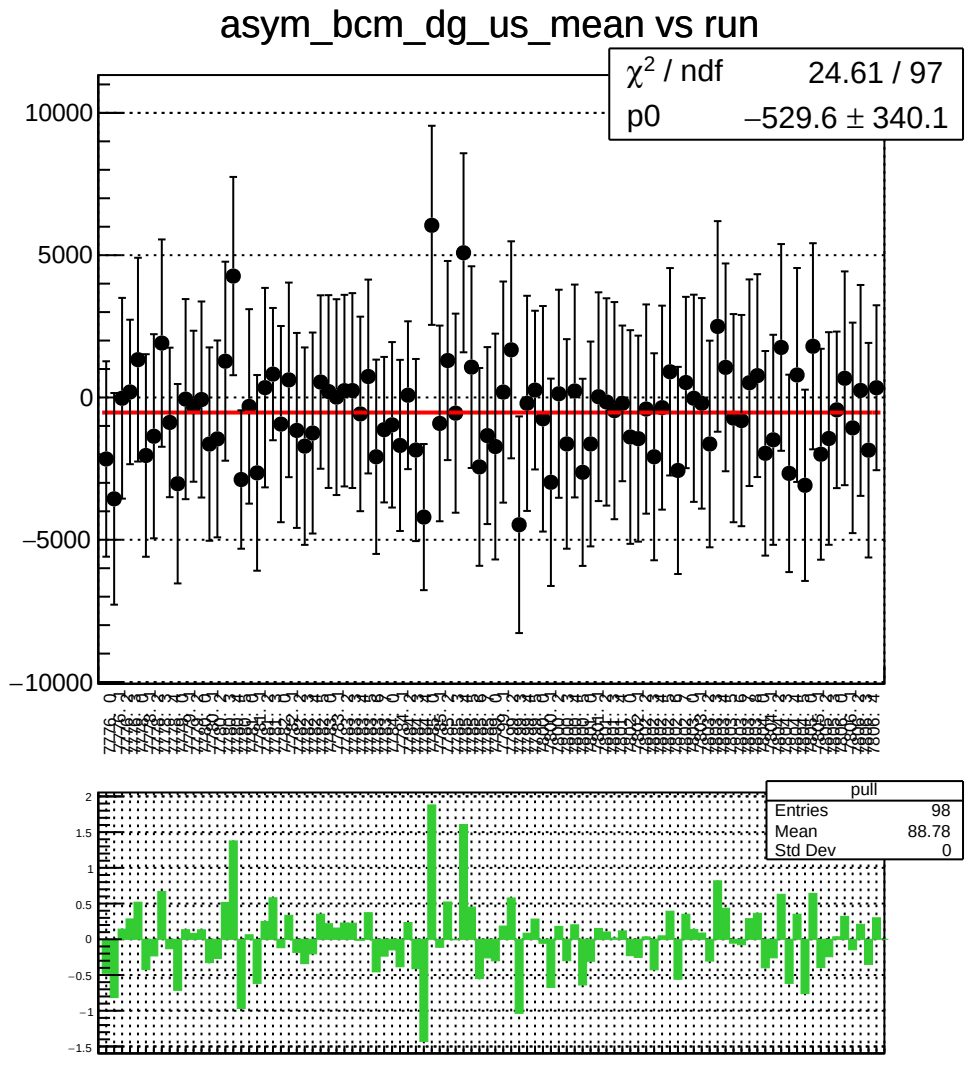

pull1D
Entries 98
Mean 0.004335
Std Dev 0.5028
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

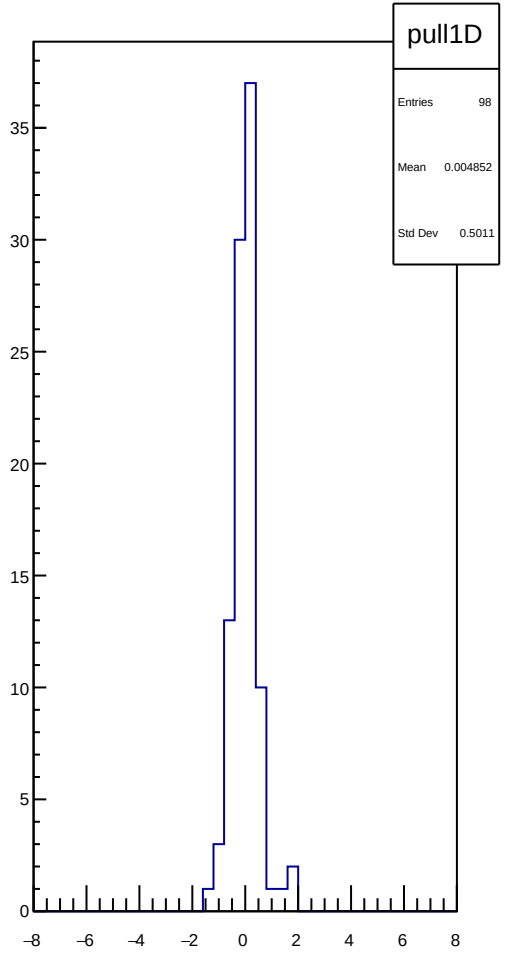

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 9173 / 97
p0 331.8 ± 0.2386
380
360
340
320
300
280
260
240

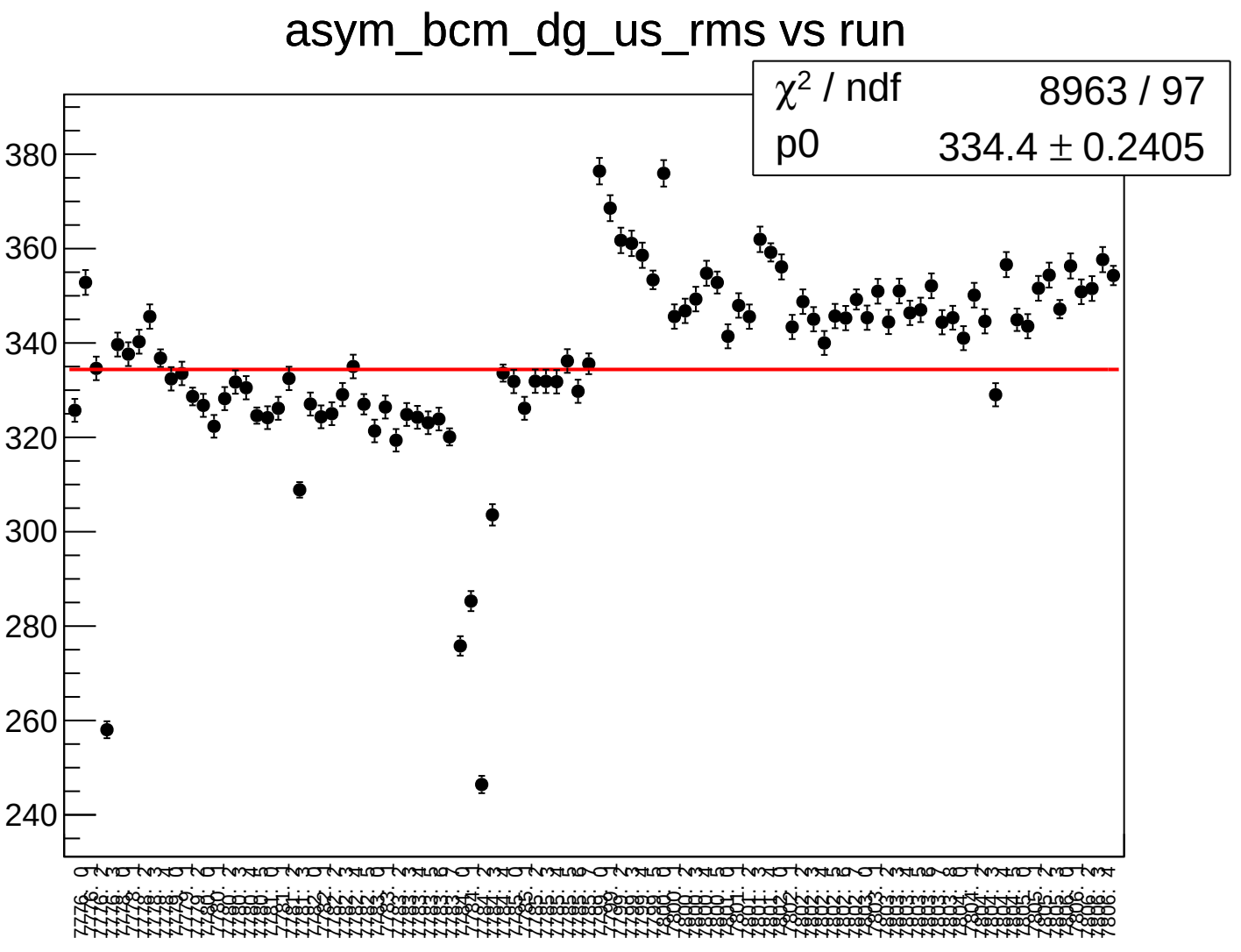

asym_bcm_an_us_mean vs run
χ² / ndf 24.8 / 97
p0 −453.8 ± 337.3
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 5.302
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

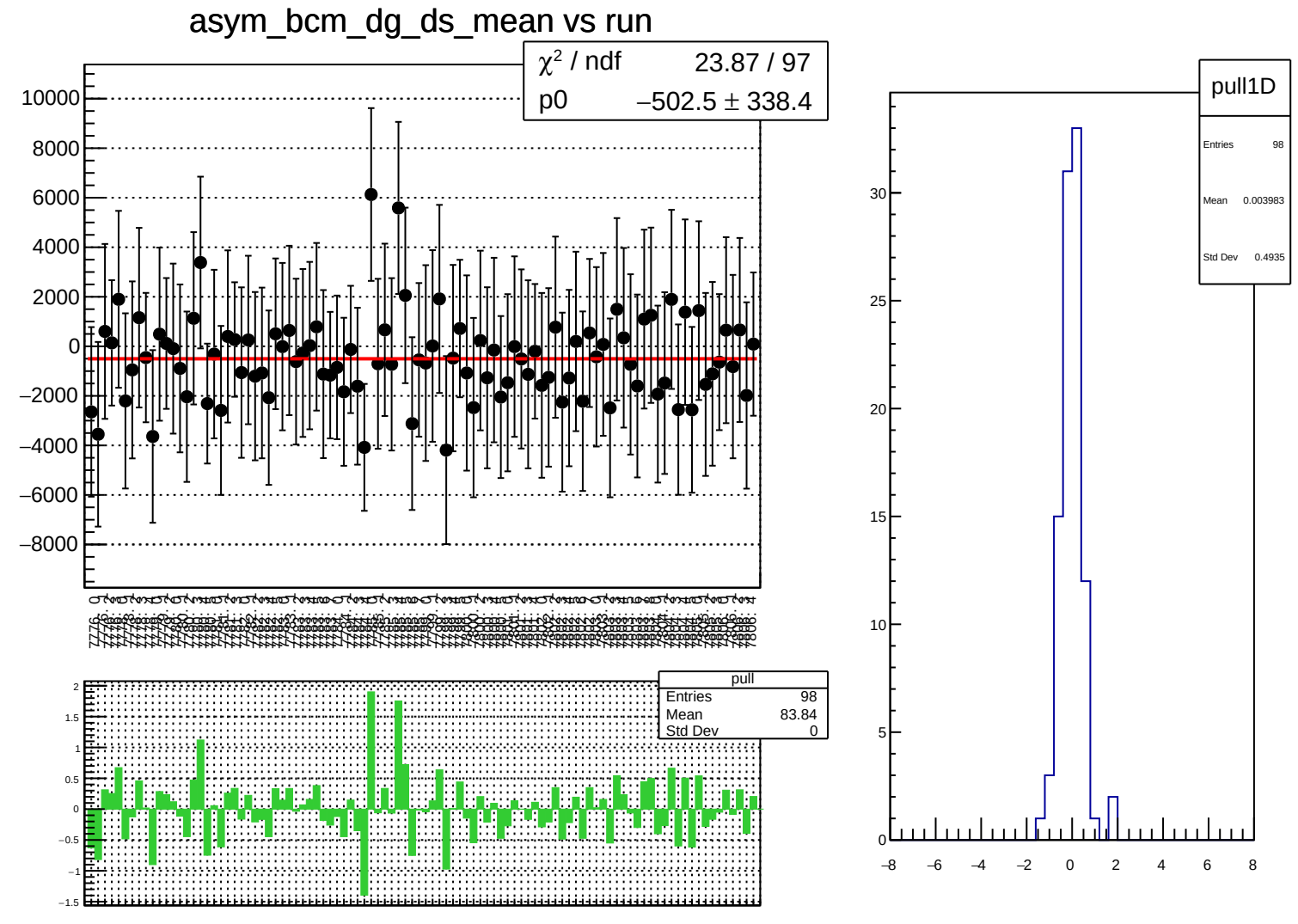

pull1D
Entries 98
Mean 0.005085
Std Dev 0.503
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

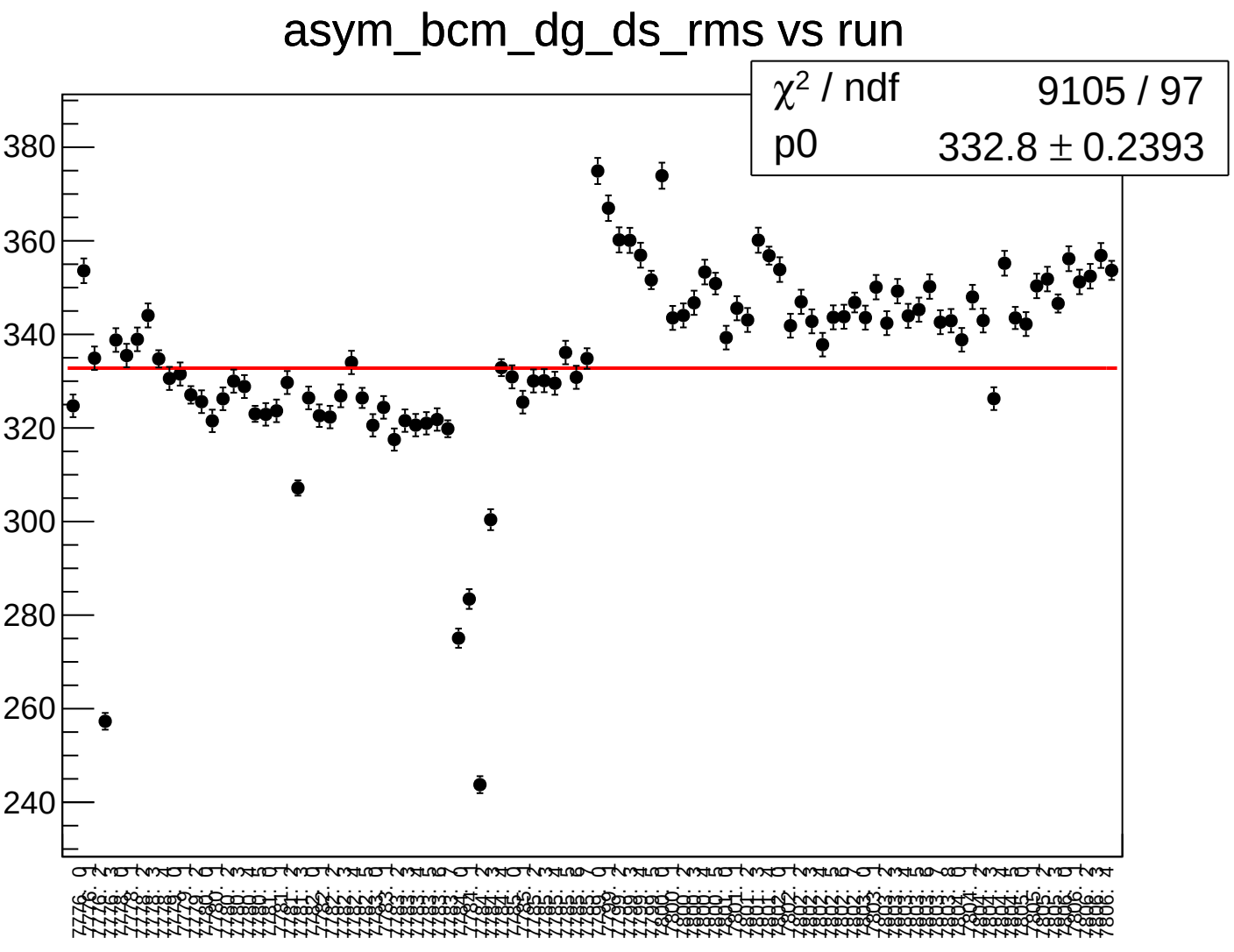

asym_bcm_an_us_rms vs run
χ^2 / ndf 9112 / 97
p0 331.7 ± 0.2385
380
360
340
320
300
280
260
240

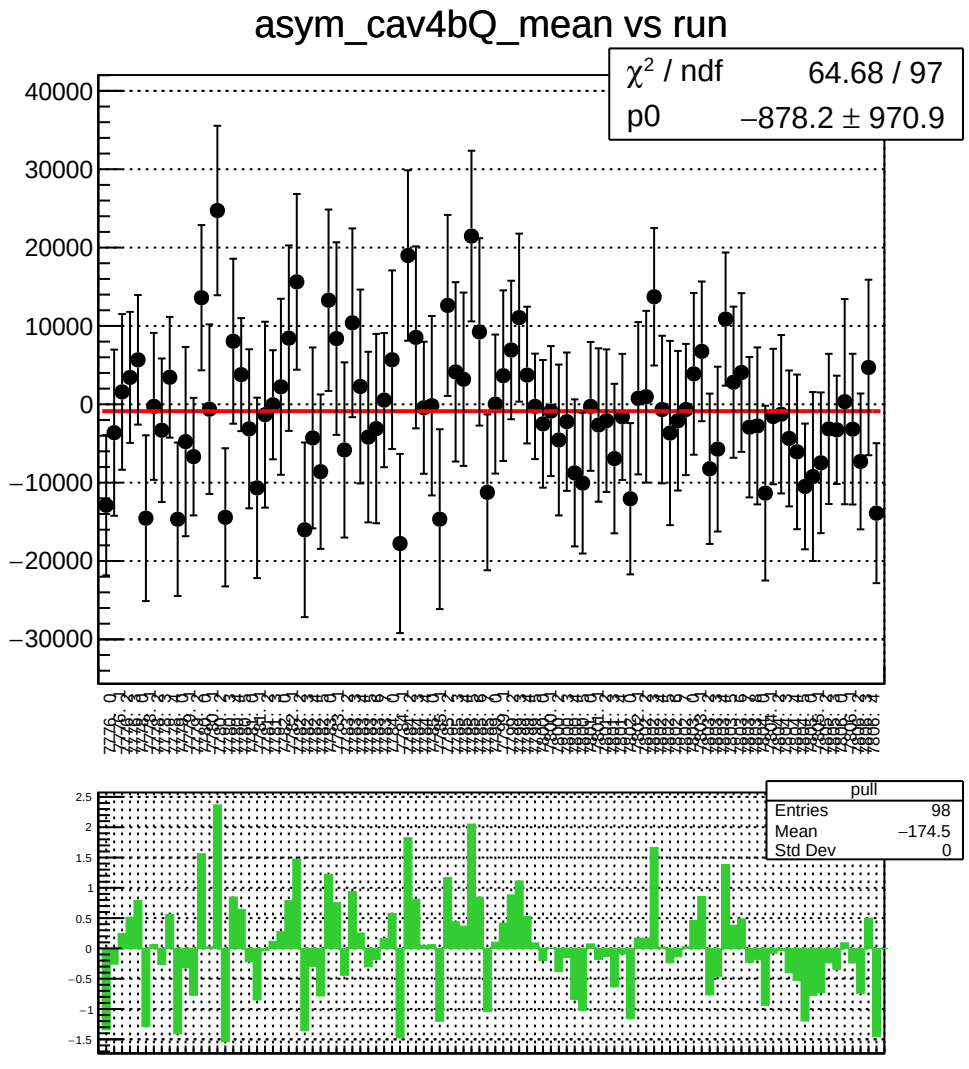

asym_bcm_dg_us_mean vs run
χ² / ndf 24.61 / 97
p0 −529.6 ± 340.1
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 88.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

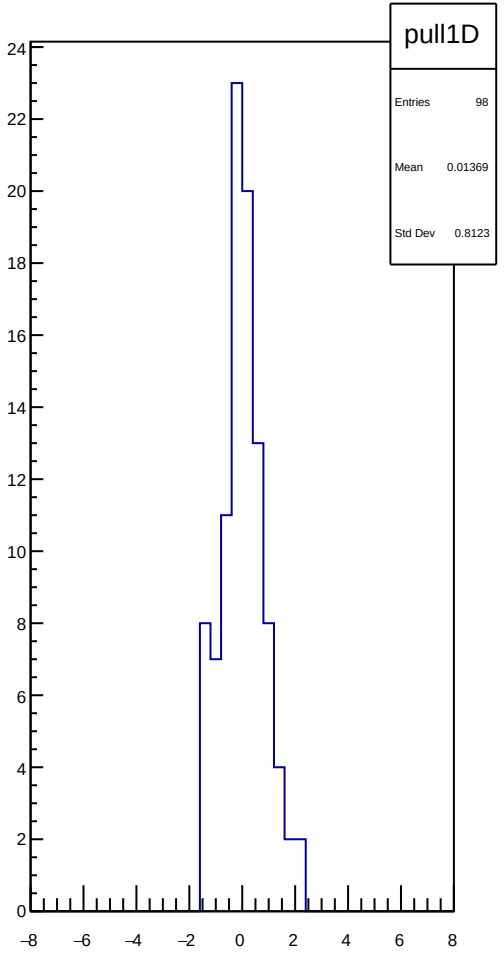

pull1D
Entries 98
Mean 0.004852
Std Dev 0.5011
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

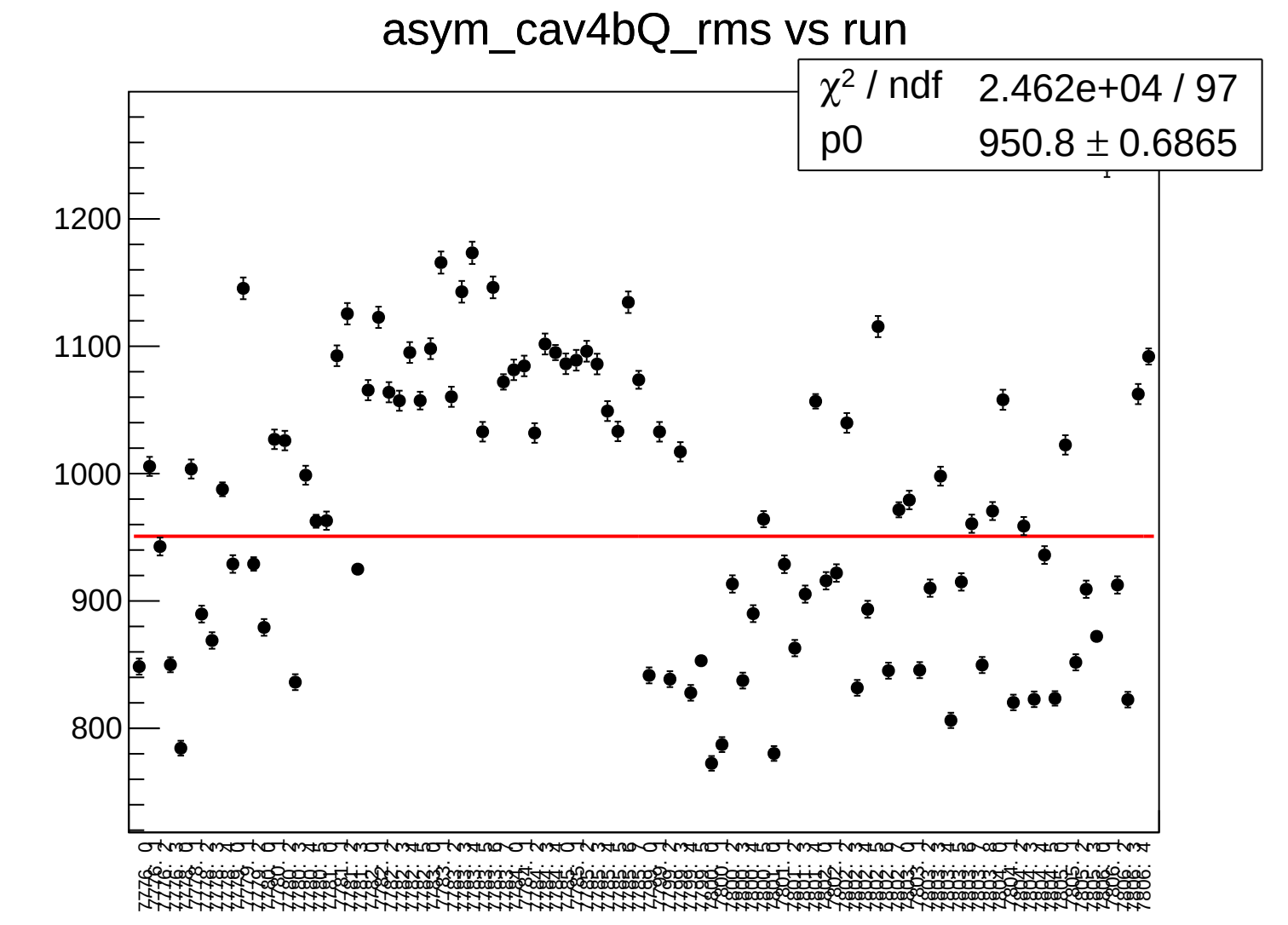

asym_bcm_dg_us_rms vs run
χ² / ndf 8963 / 97
p0 334.4 ± 0.2405
380
360
340
320
300
280
260
240

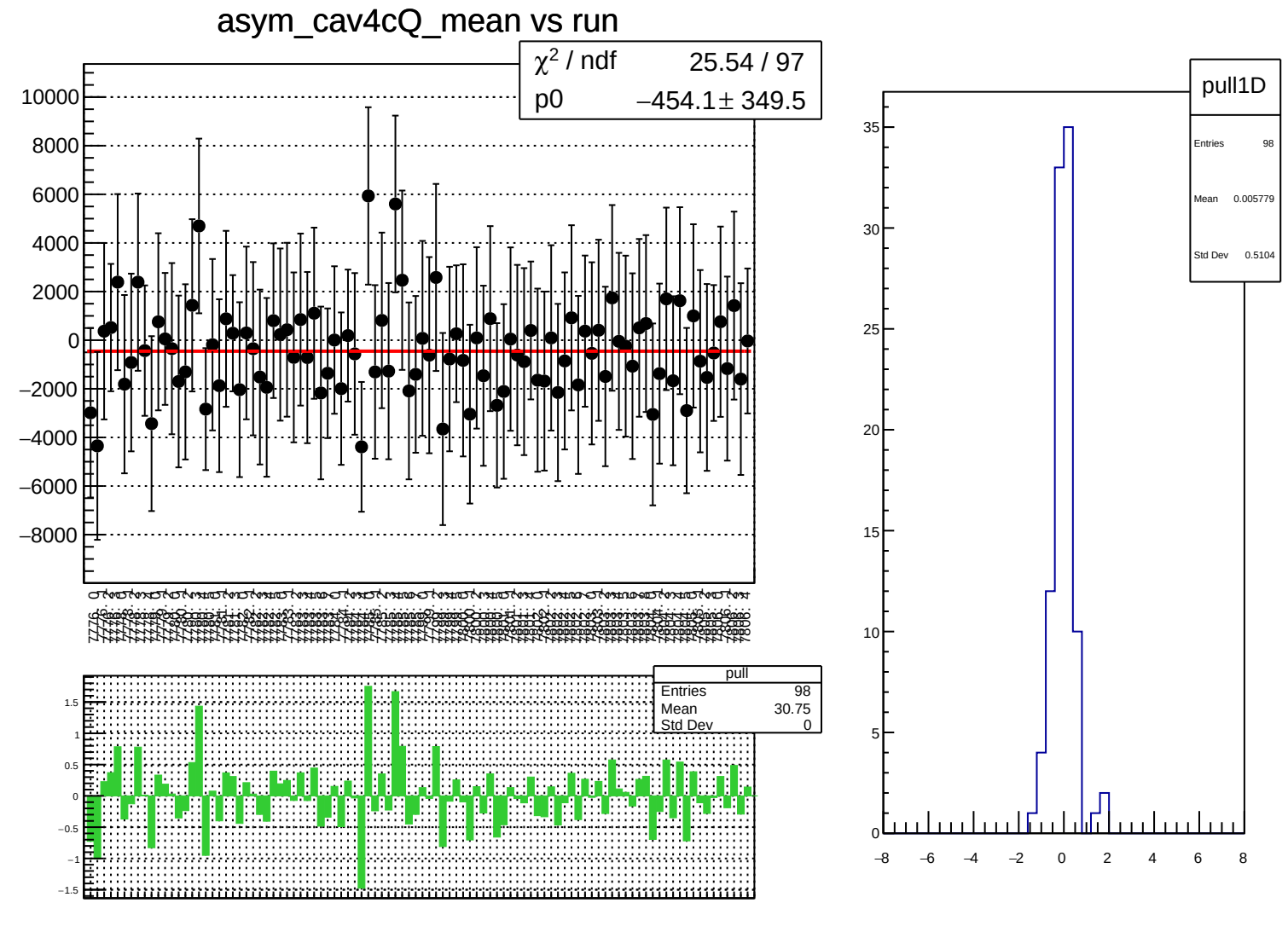

asym_bcm_dg_ds_mean vs run
χ² / ndf 23.87 / 97
p0 −502.5 ± 338.4
pull
Entries 98
Mean 83.84
Std Dev 0
pull1D
Entries 98
Mean 0.003983
Std Dev 0.4935

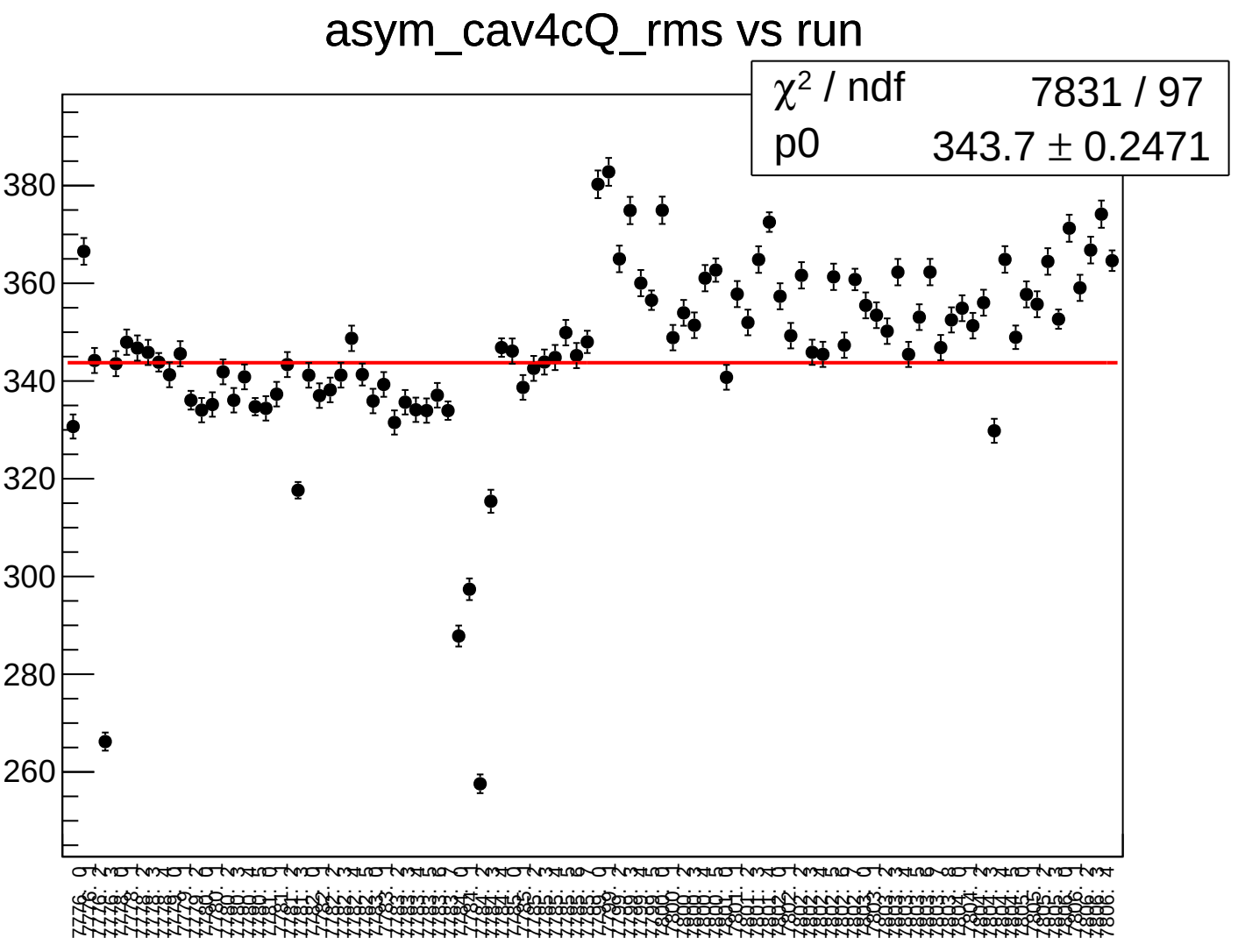

asym_bcm_dg_ds_rms vs run
χ² / ndf 9105 / 97
p0 332.8 ± 0.2393
380
360
340
320
300
280
260
240

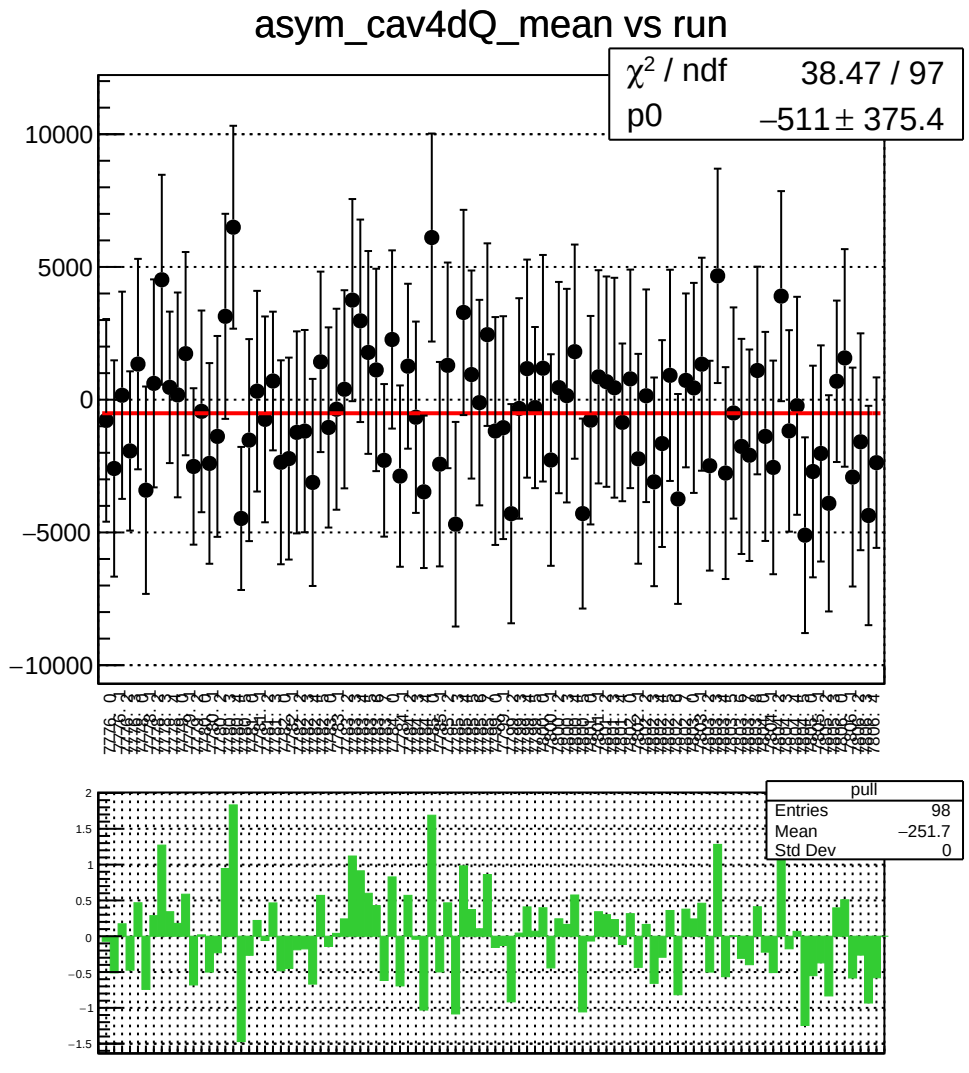

asym_cav4bQ_mean vs run
χ² / ndf 64.68 / 97
p0 −878.2 ± 970.9
pull
Entries 98
Mean −174.5
Std Dev 0

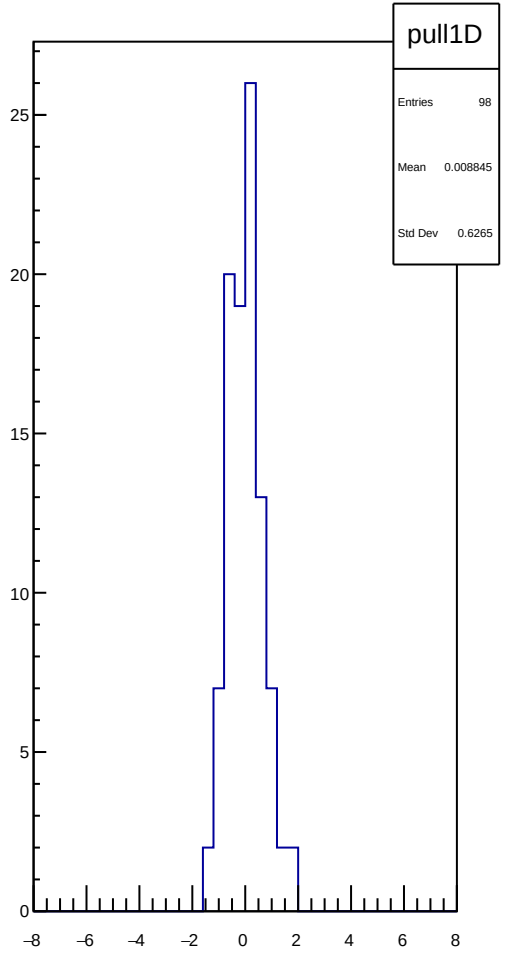

pull1D
Entries 98
Mean 0.01369
Std Dev 0.8123

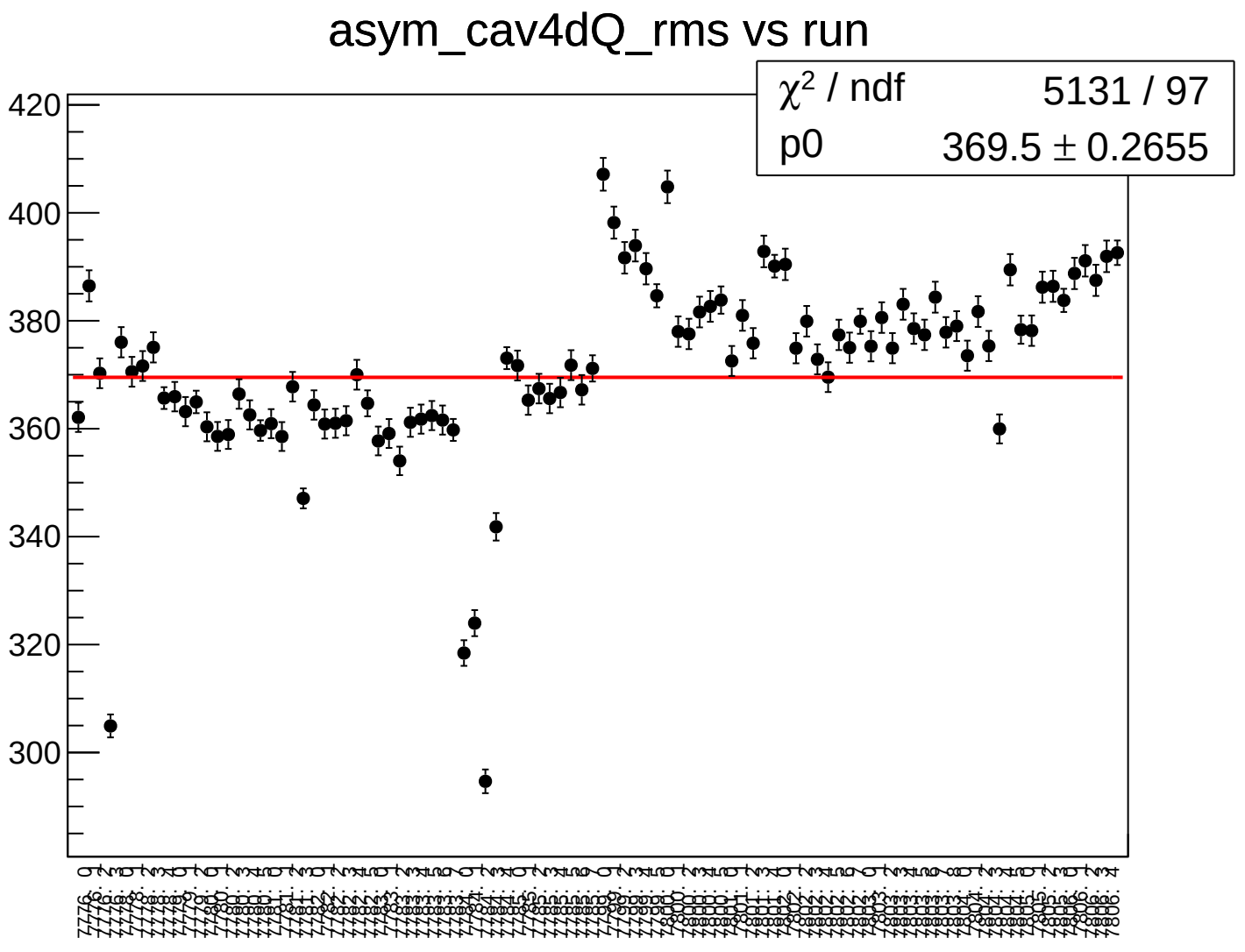

asym_cav4bQ_rms vs run
χ² / ndf 2.462e+04 / 97
p0 950.8 ± 0.6865
1200
1100
1000
900
800

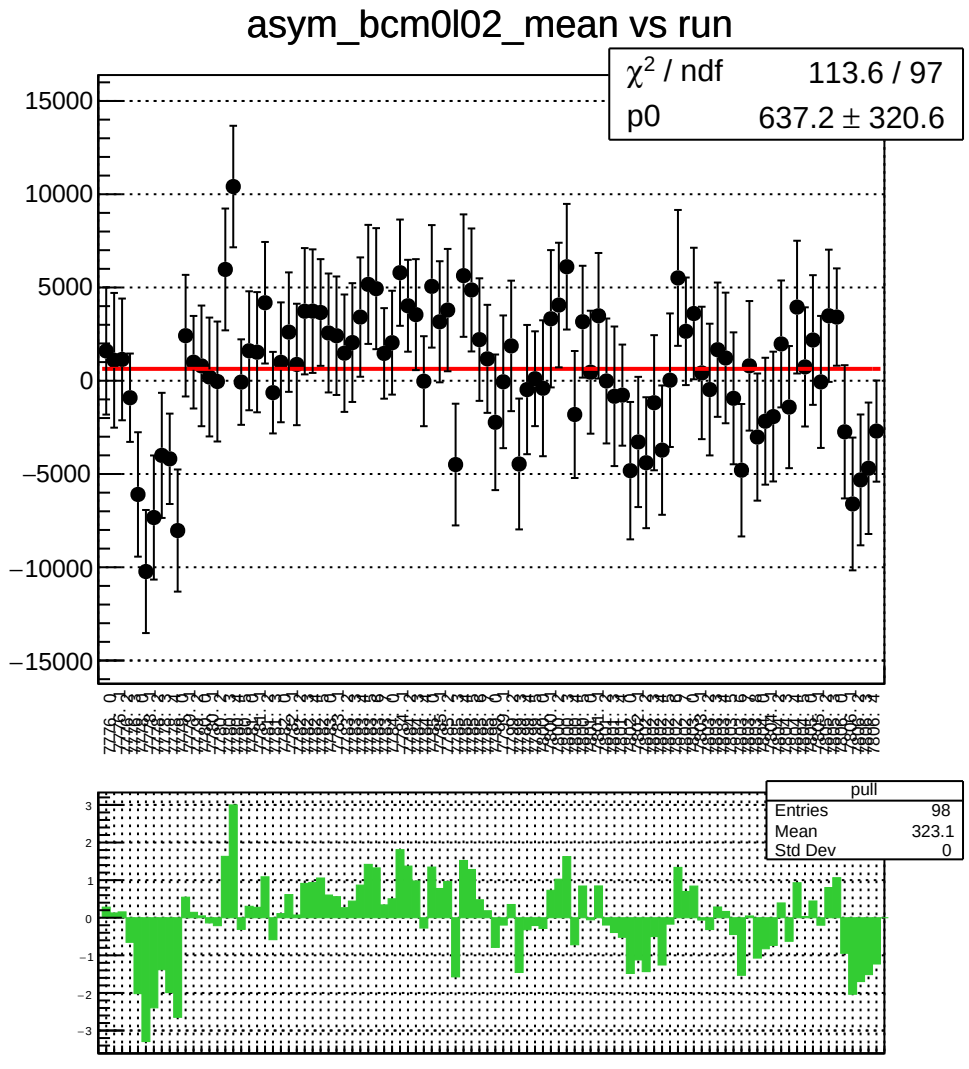

asym_cav4cQ_mean vs run
χ² / ndf 25.54 / 97
p0 −454.1± 349.5
pull
Entries 98
Mean 30.75
Std Dev 0
pull1D
Entries 98
Mean 0.005779
Std Dev 0.5104

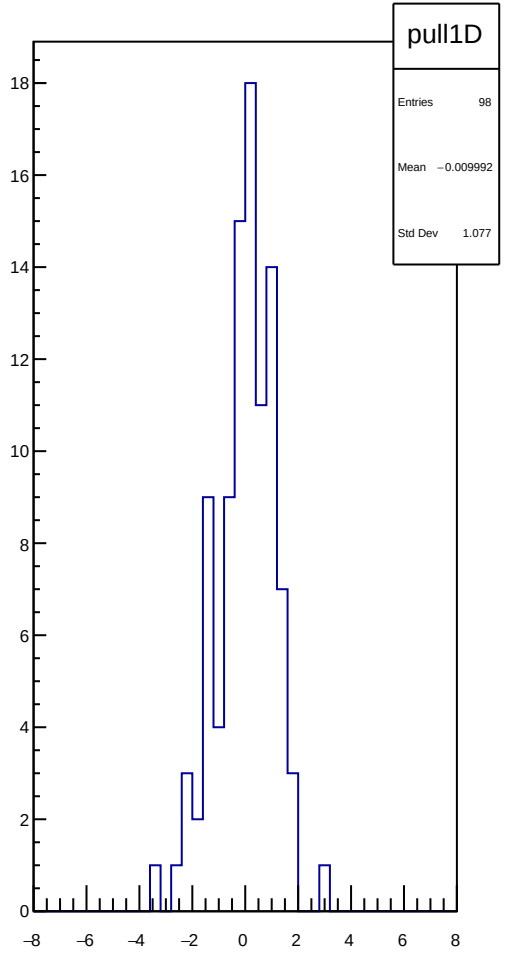

asym_cav4cQ_rms vs run
χ² / ndf 7831 / 97
p0 343.7 ± 0.2471
380
360
340
320
300
280
260

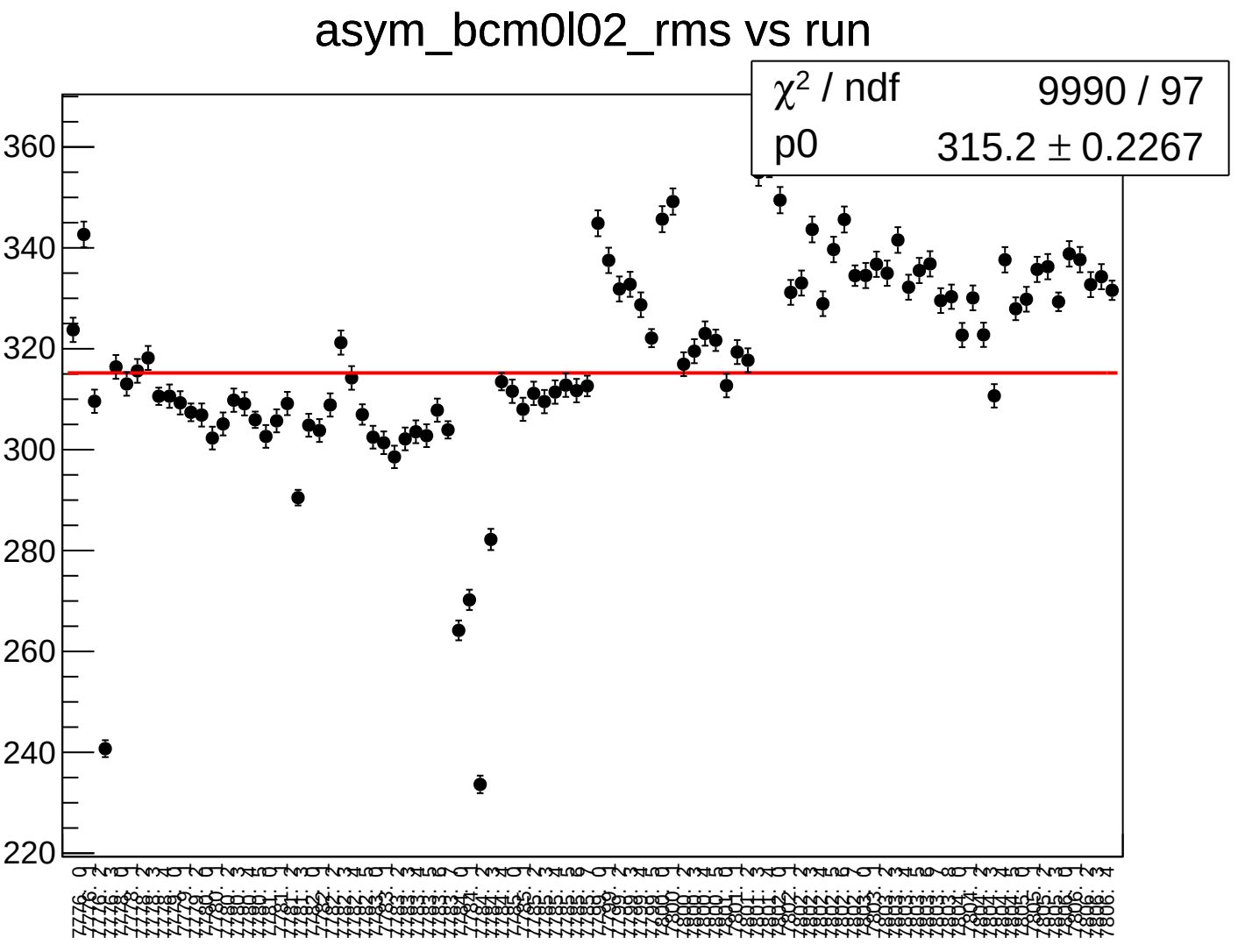

asym_cav4dQ_mean vs run
χ² / ndf 38.47 / 97
p0 −511 ± 375.4
10000
5000
0
−5000
−10000
pull
Entries 98
Mean −251.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

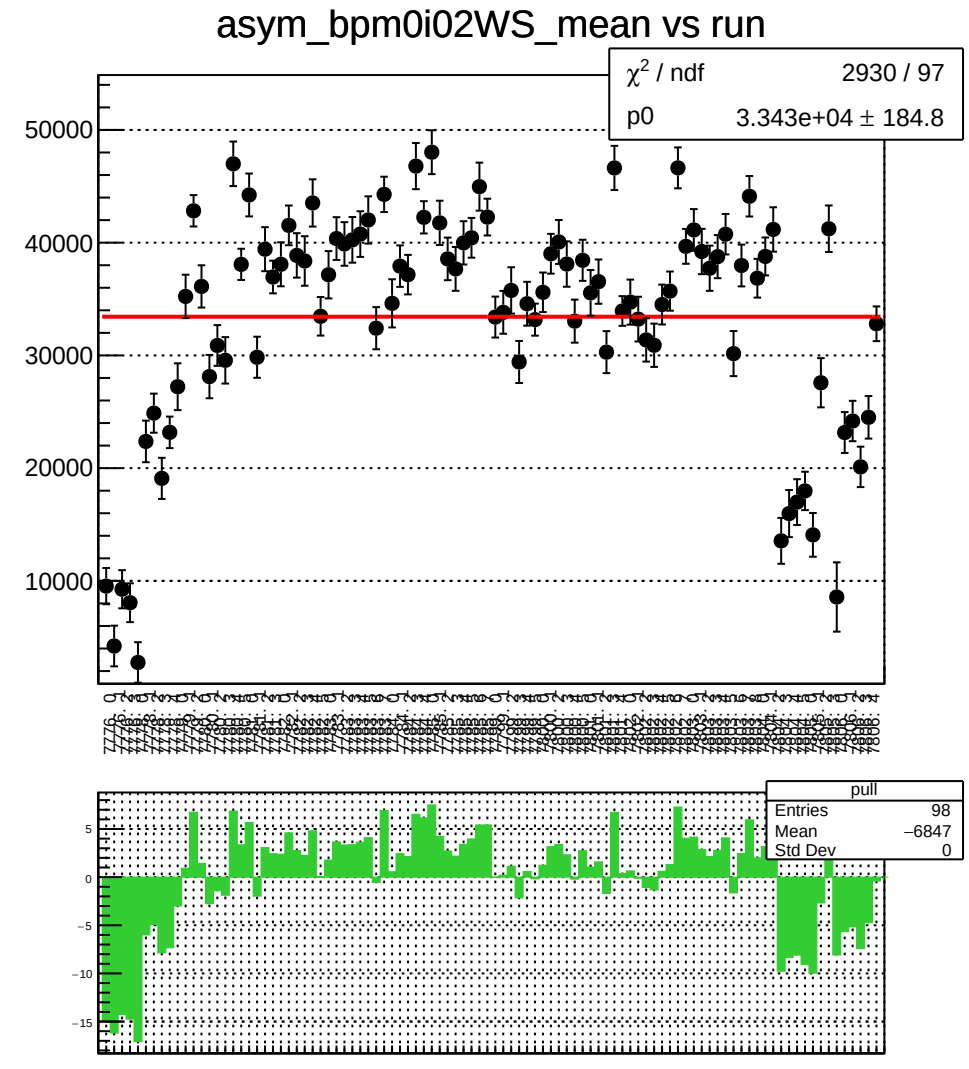

pull1D
Entries 98
Mean 0.008845
Std Dev 0.6265
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

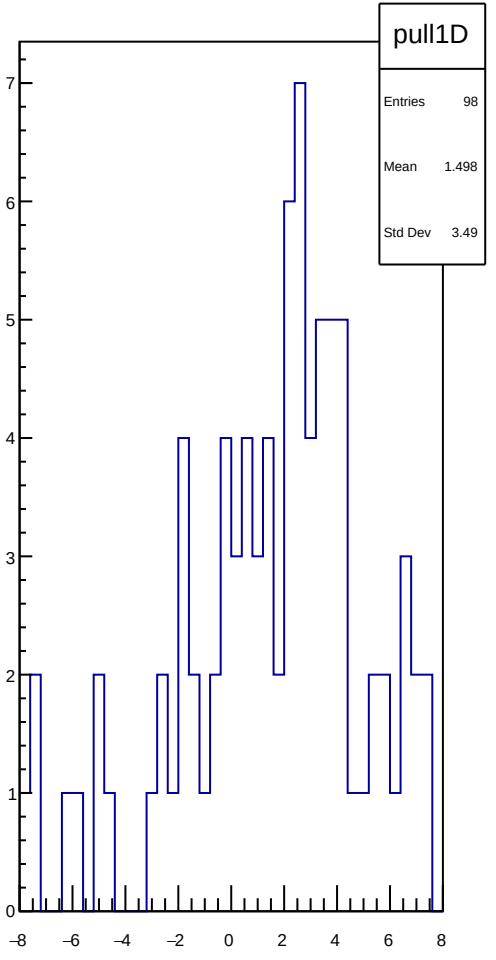

asym_cav4dQ_rms vs run
χ^2 / ndf 5131 / 97
p0 369.5 ± 0.2655
420
400
380
360
340
320
300

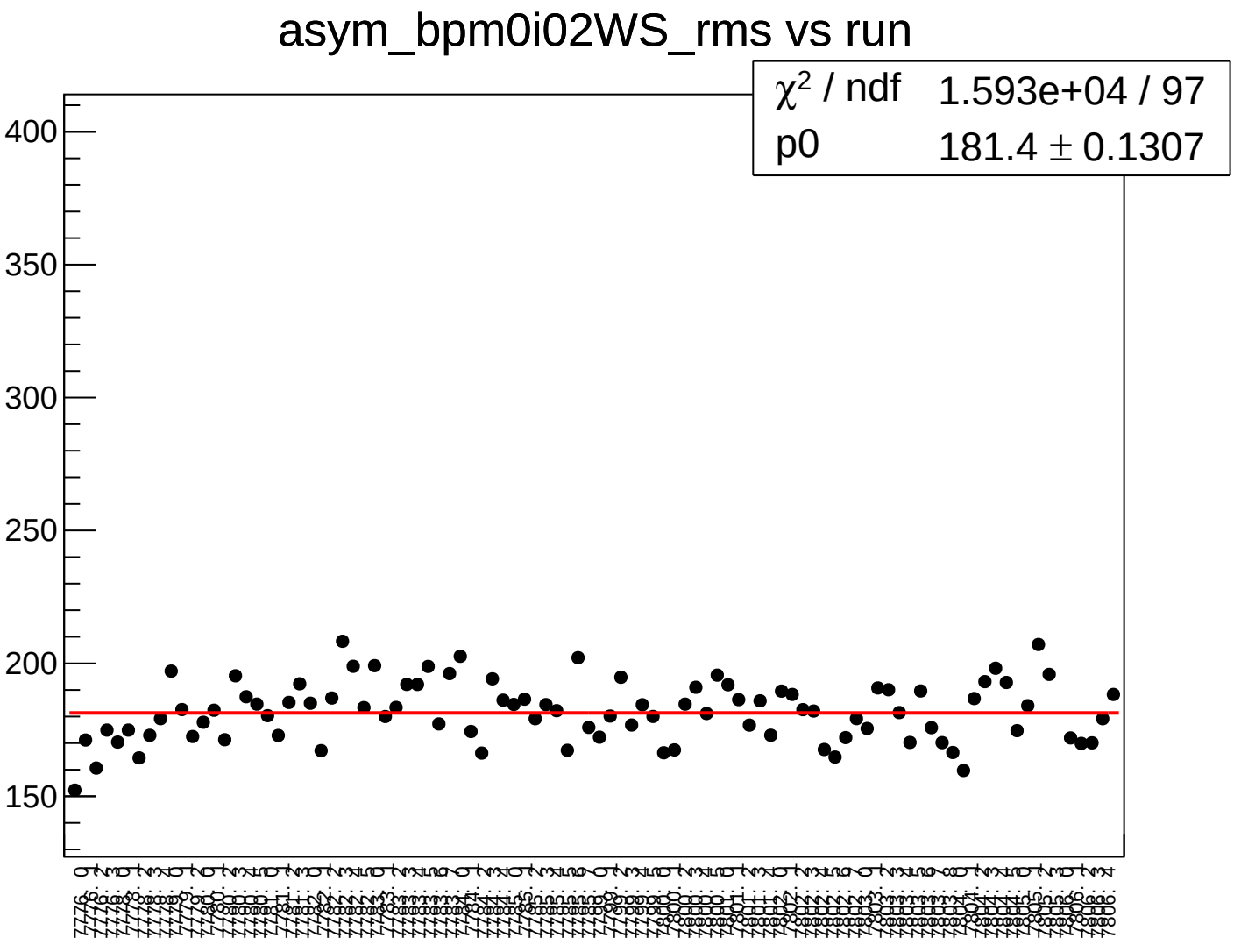

asym_bcm0l02_mean vs run
χ² / ndf 113.6 / 97
p0 637.2 ± 320.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 323.1
Std Dev 0
3
2
1
0
−1
−2
−3

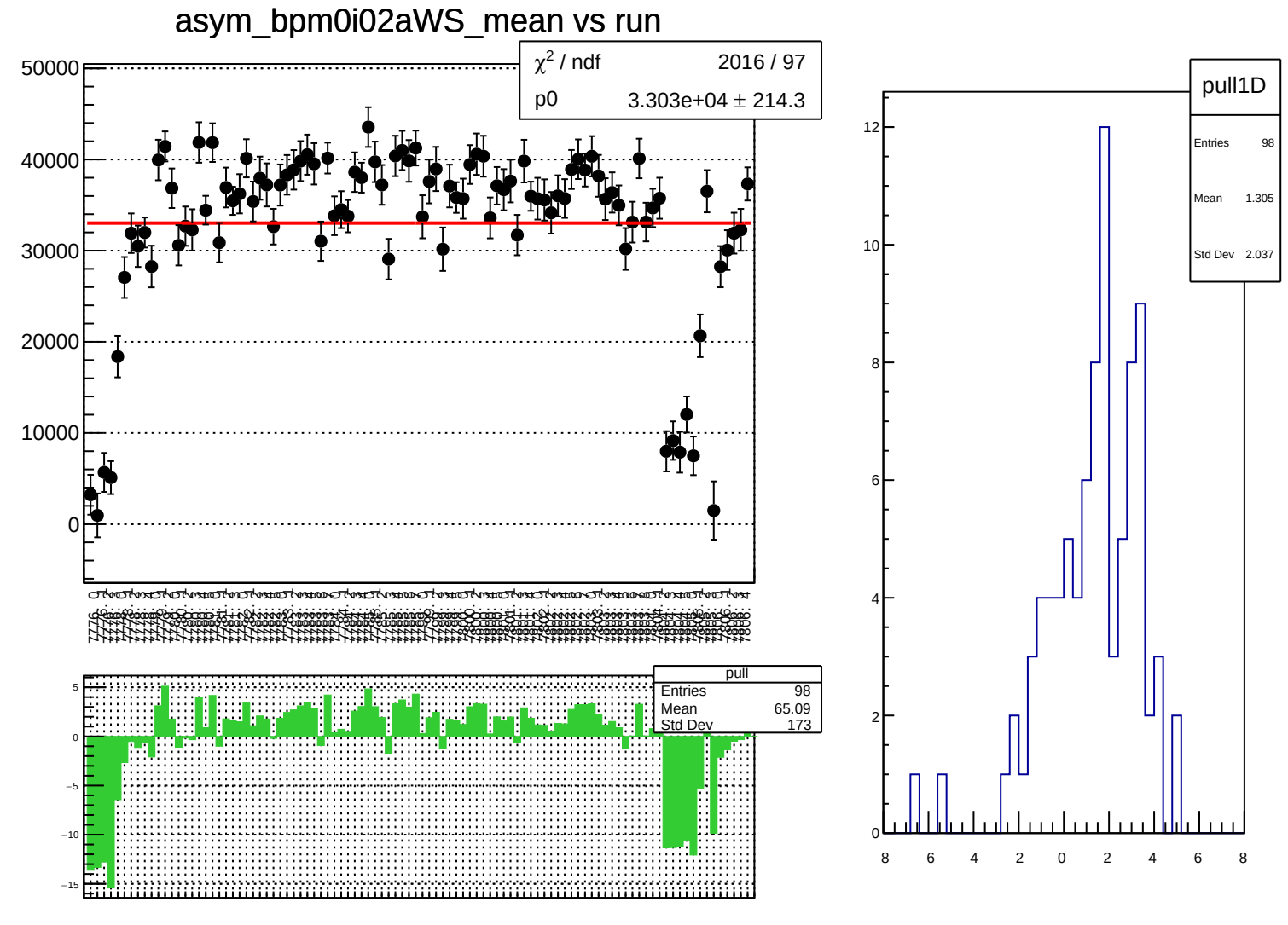

pull1D
Entries 98
Mean −0.009992
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

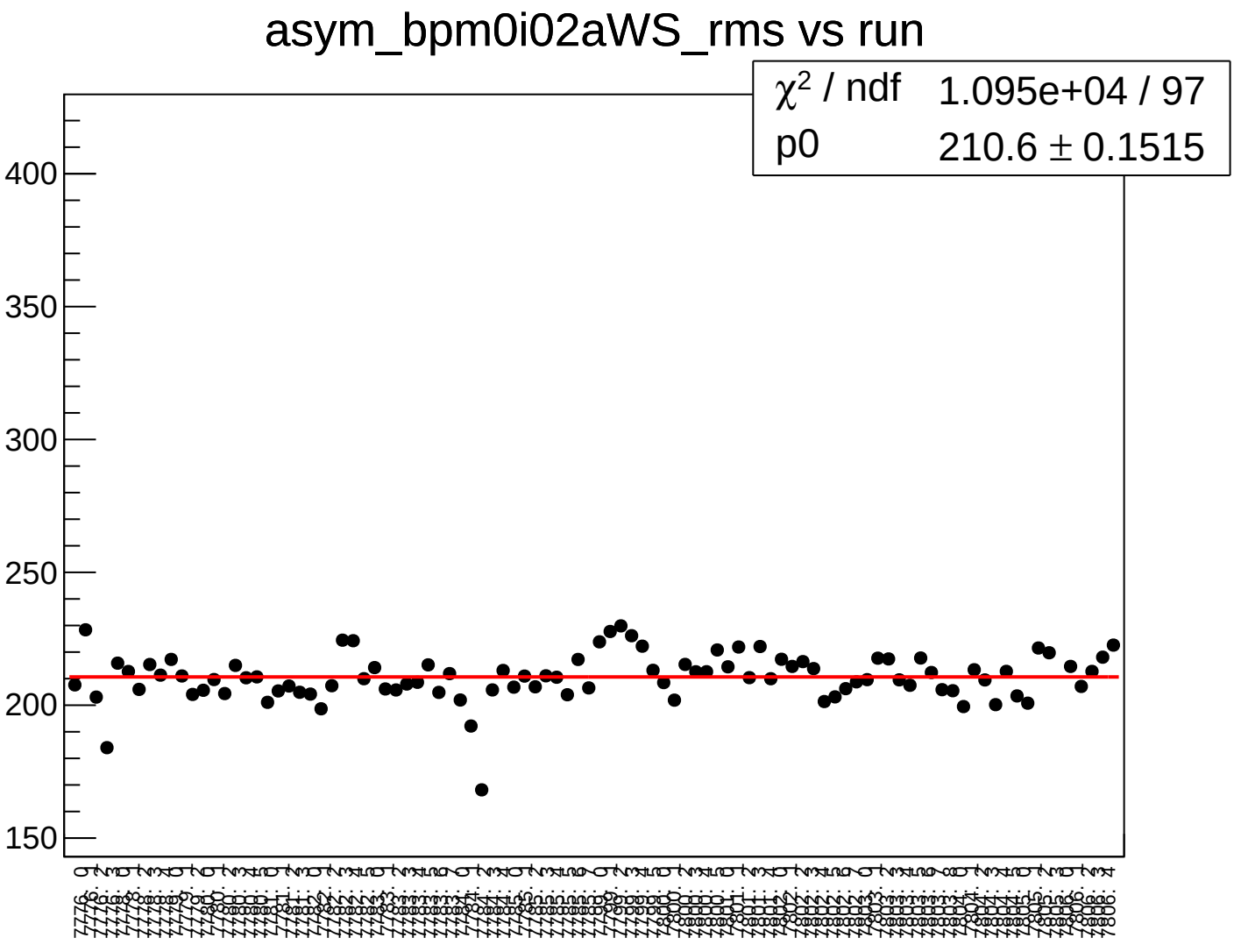

asym_bcm0l02_rms vs run
χ² / ndf 9990 / 97
p0 315.2 ± 0.2267
360
340
320
300
280
260
240
220

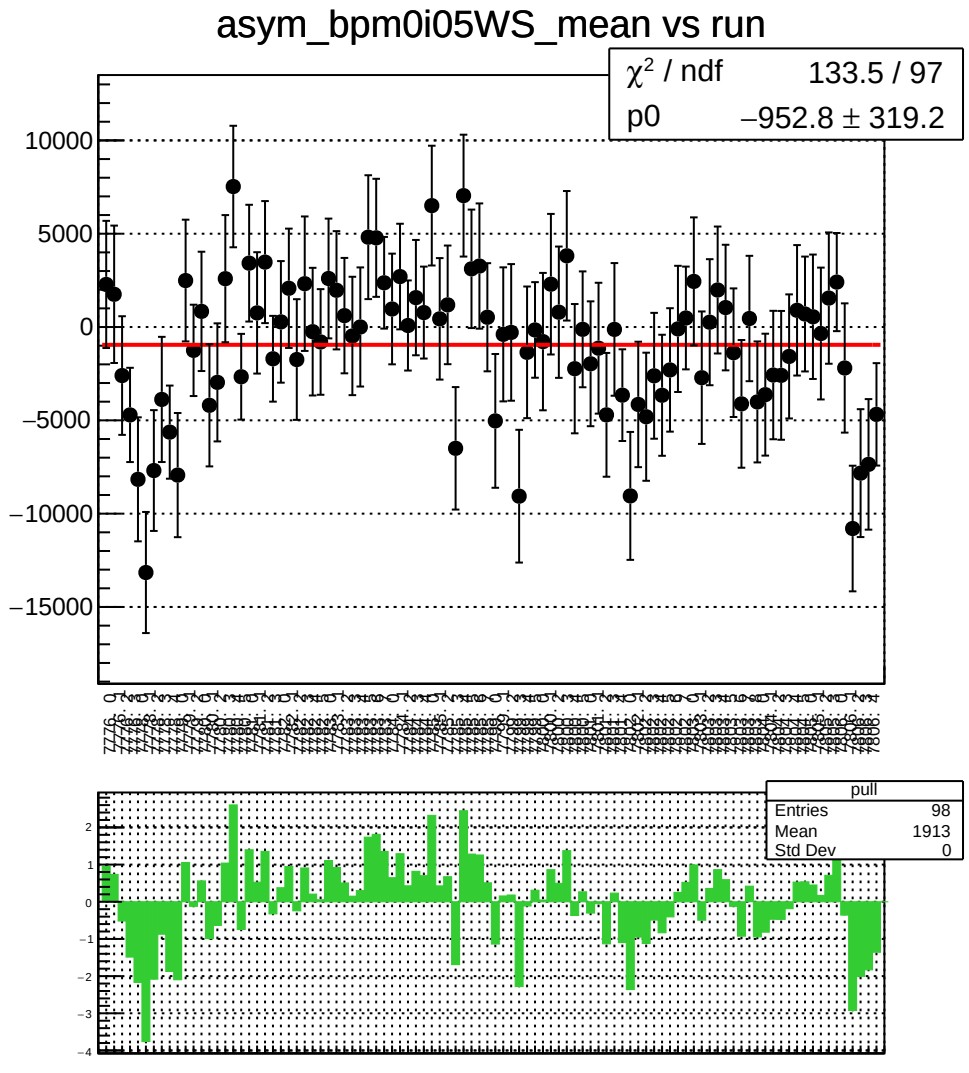

asym_bpm0i02WS_mean vs run
χ² / ndf 2930 / 97
p0 3.343e+04 ± 184.8
50000
40000
30000
20000
10000
pull
Entries 98
Mean −6847
Std Dev 0
5
0
−5
−10
−15

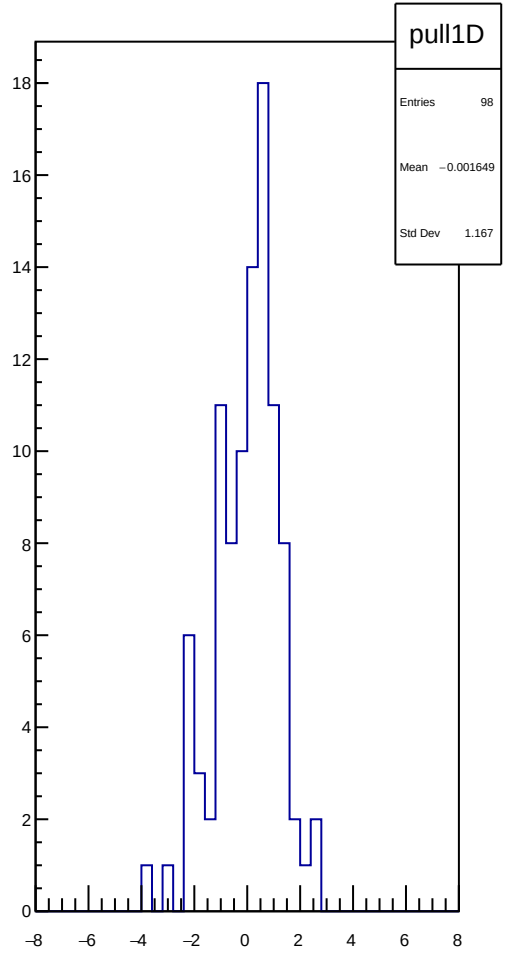

pull1D
Entries 98
Mean 1.498
Std Dev 3.49
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

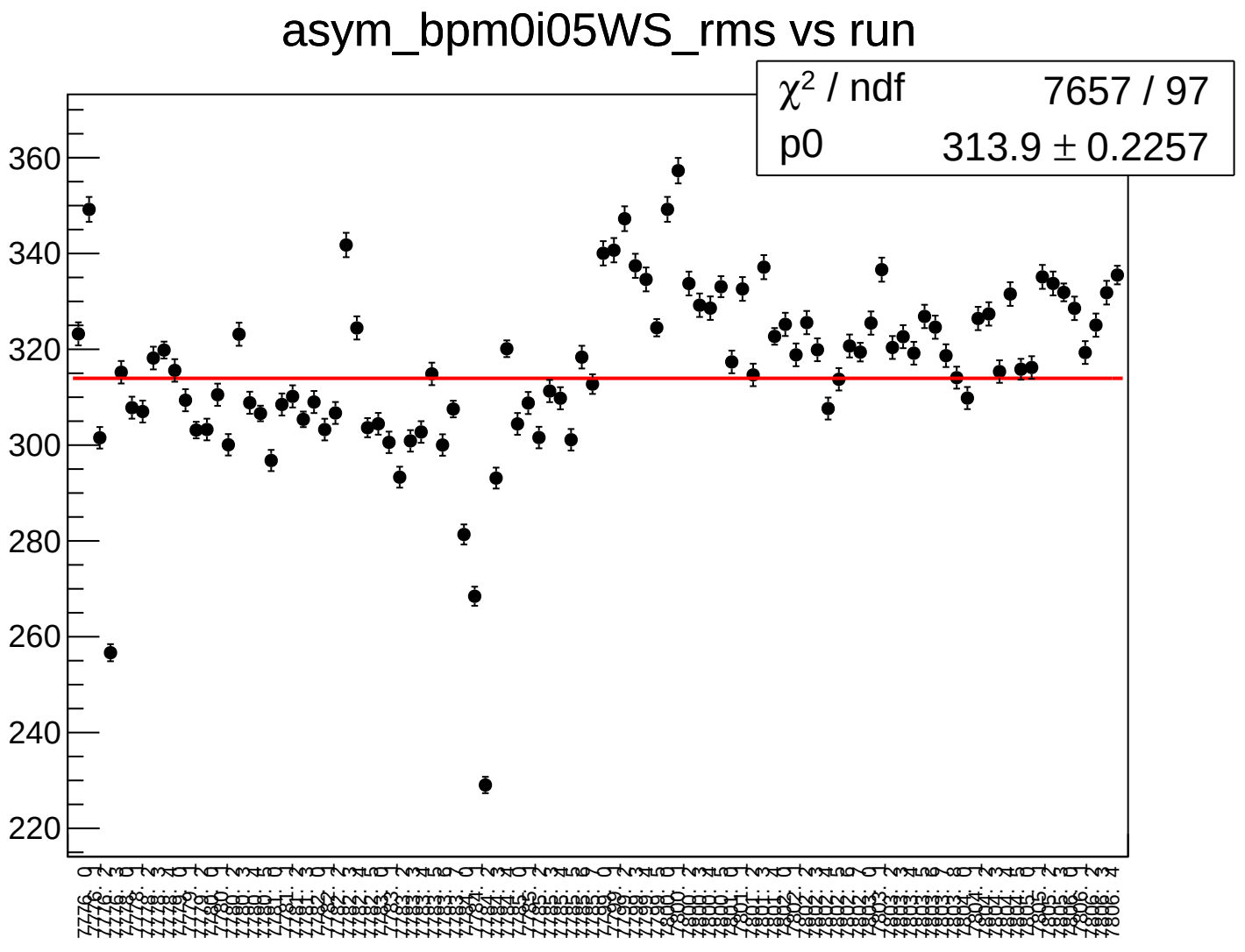

asym_bpm0i02WS_rms vs run
χ² / ndf 1.593e+04 / 97
p0 181.4 ± 0.1307
400
350
300
250
200
150

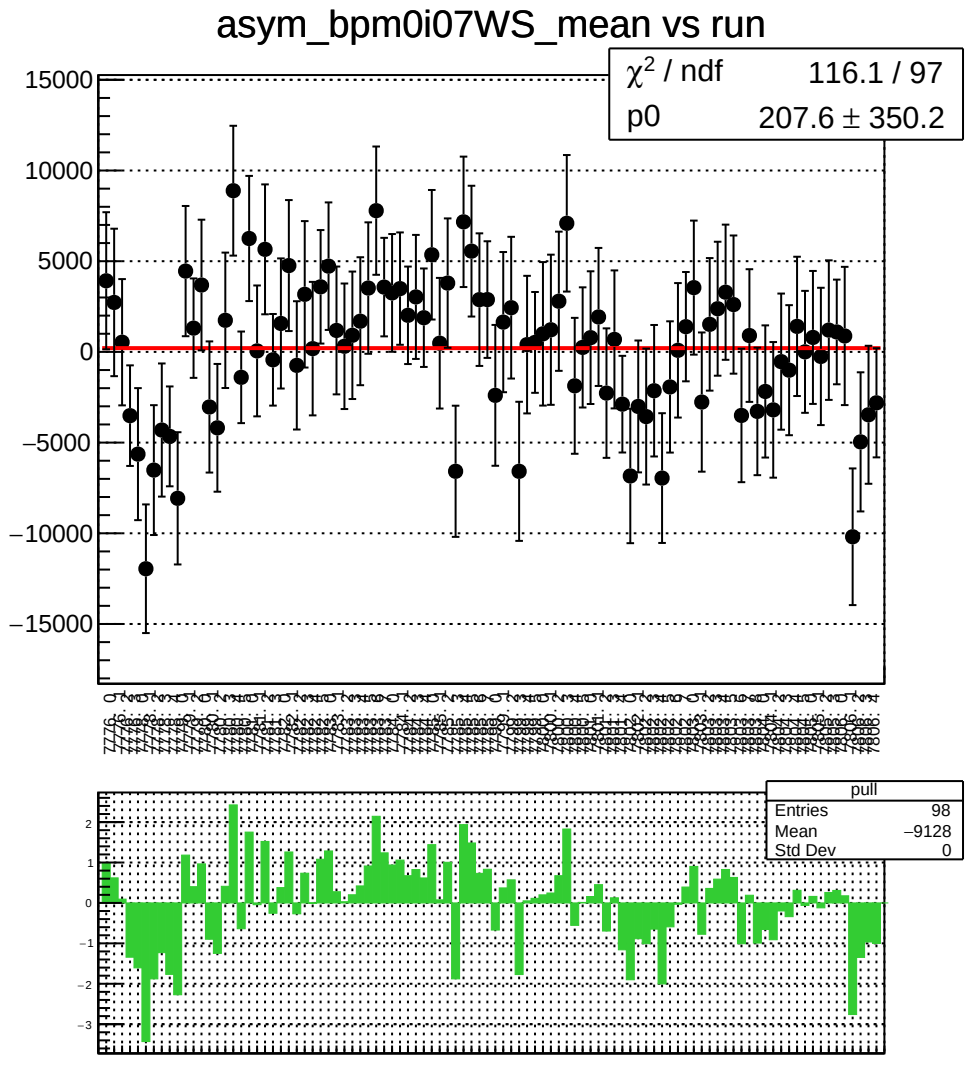

asym_bpm0i02aWS_mean vs run
χ² / ndf 2016 / 97
p0 3.303e+04 ± 214.3
50000
40000
30000
20000
10000
0
pull
Entries 98
Mean 65.09
Std Dev 173
5
0
−5
−10
−15
pull1D
Entries 98
Mean 1.305
Std Dev 2.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

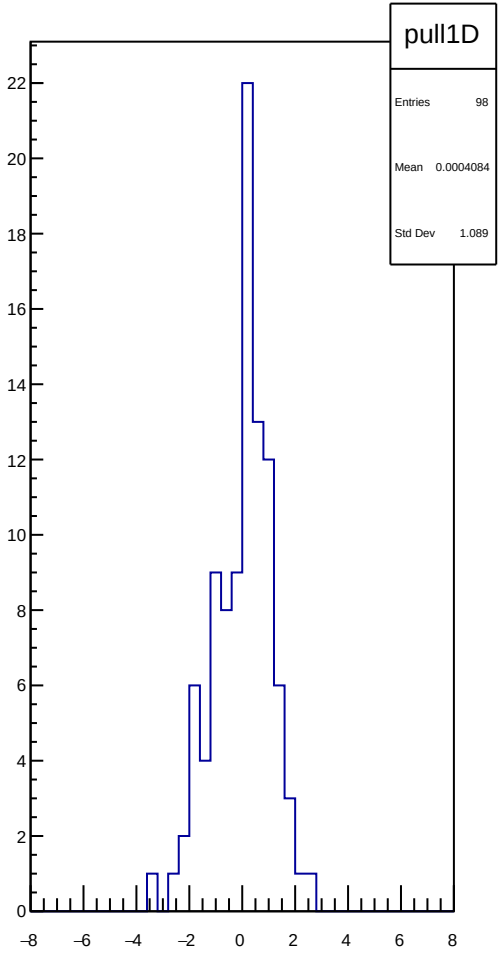

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.095e+04 / 97
p0 210.6 ± 0.1515
400
350
300
250
200
150

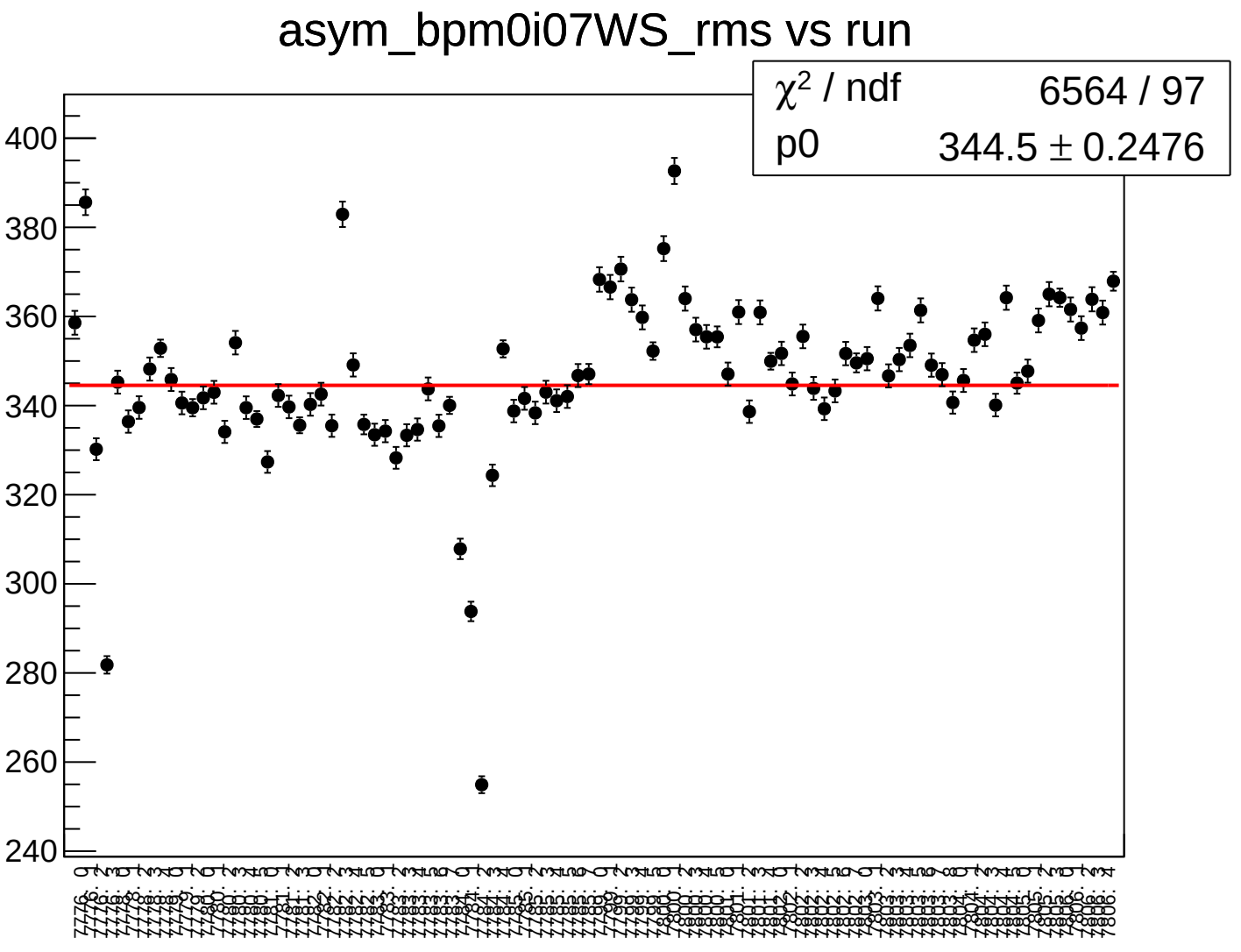

asym_bpm0i05WS_mean vs run
χ² / ndf 133.5 / 97
p0 −952.8 ± 319.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 1913
Std Dev 0
2
1
0
−1
−2
−3
−4

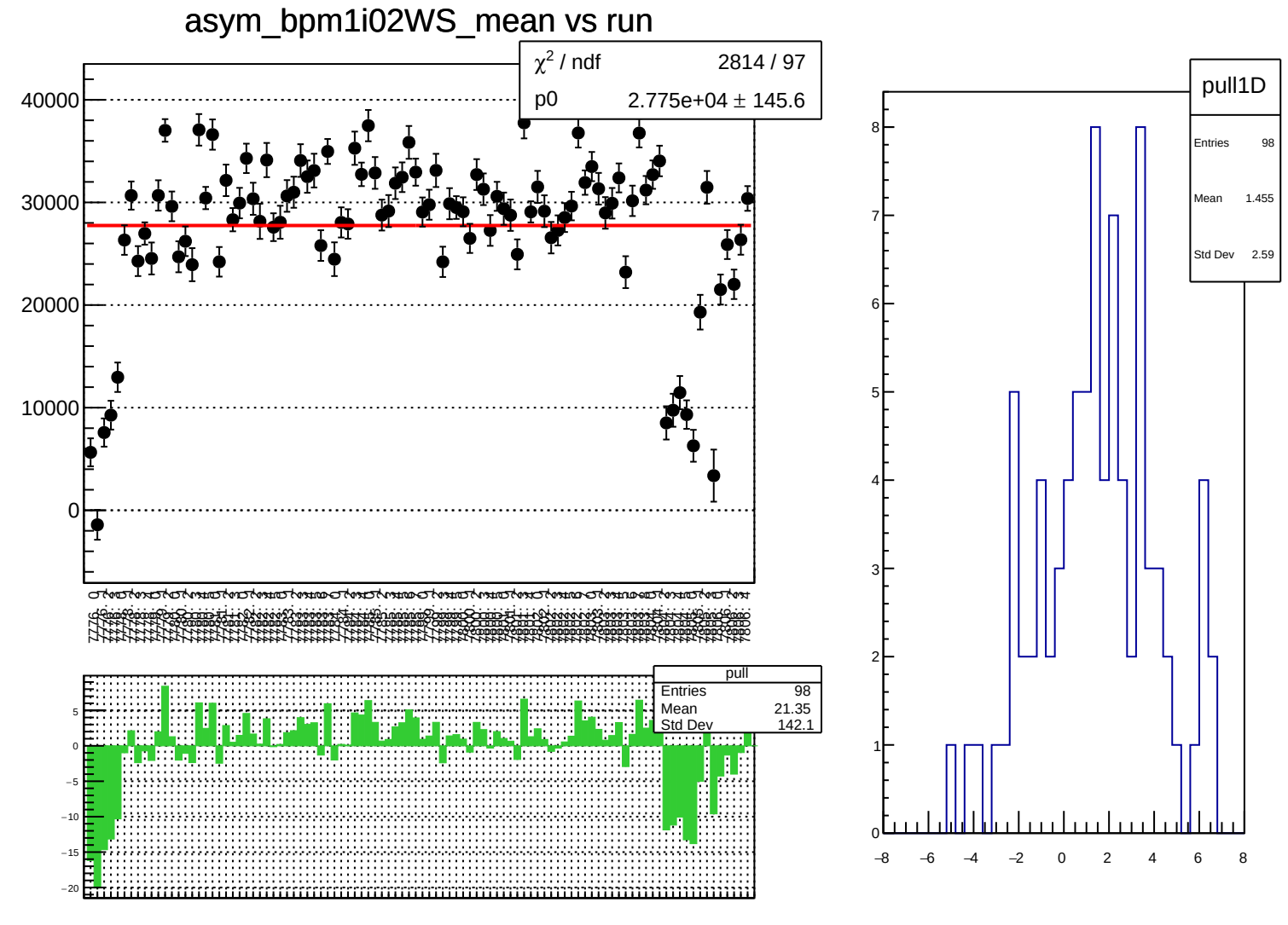

pull1D
Entries 98
Mean −0.001649
Std Dev 1.167
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

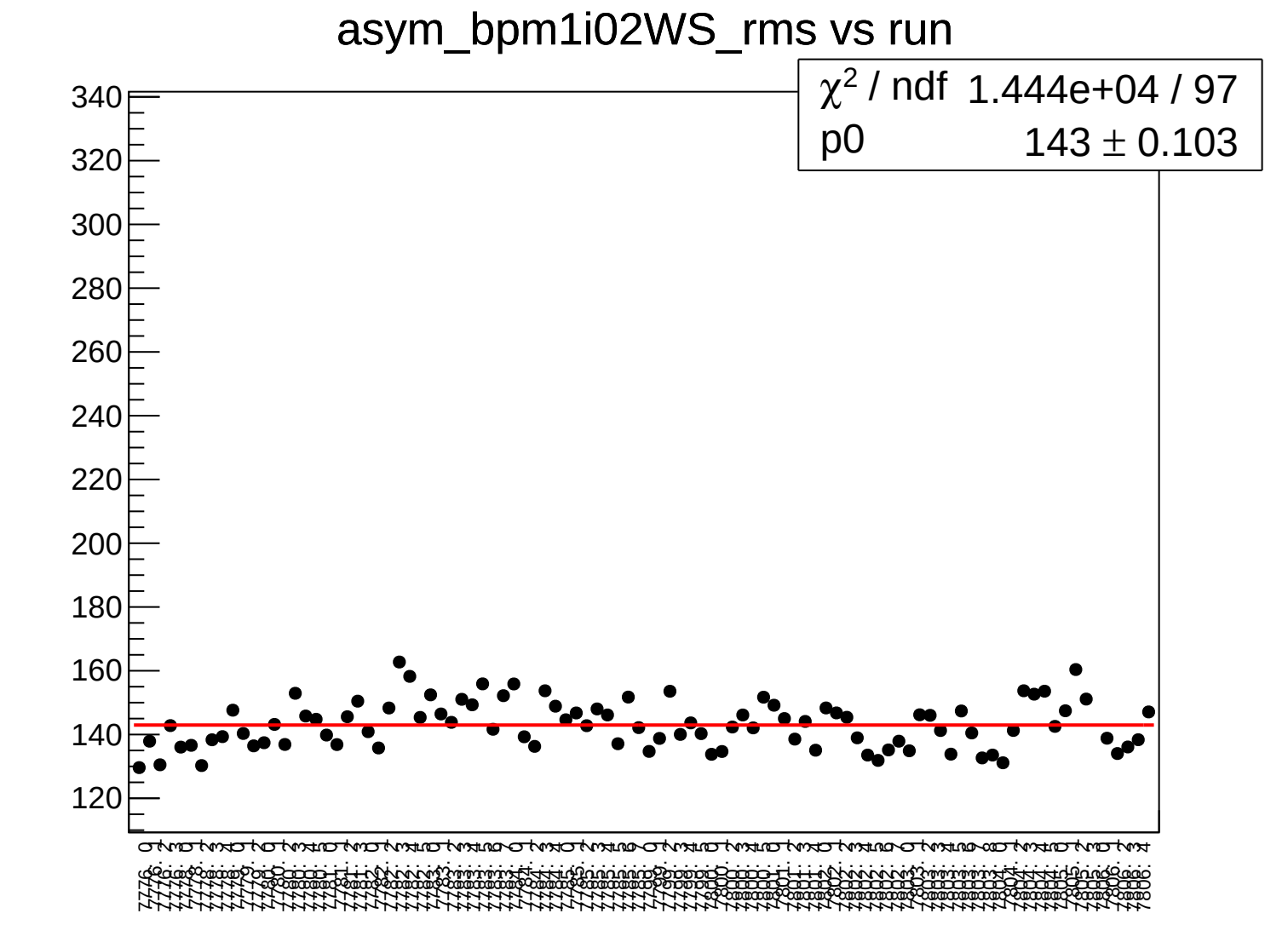

asym_bpm0i05WS_rms vs run
χ² / ndf 7657 / 97
p0 313.9 ± 0.2257
360
340
320
300
280
260
240
220

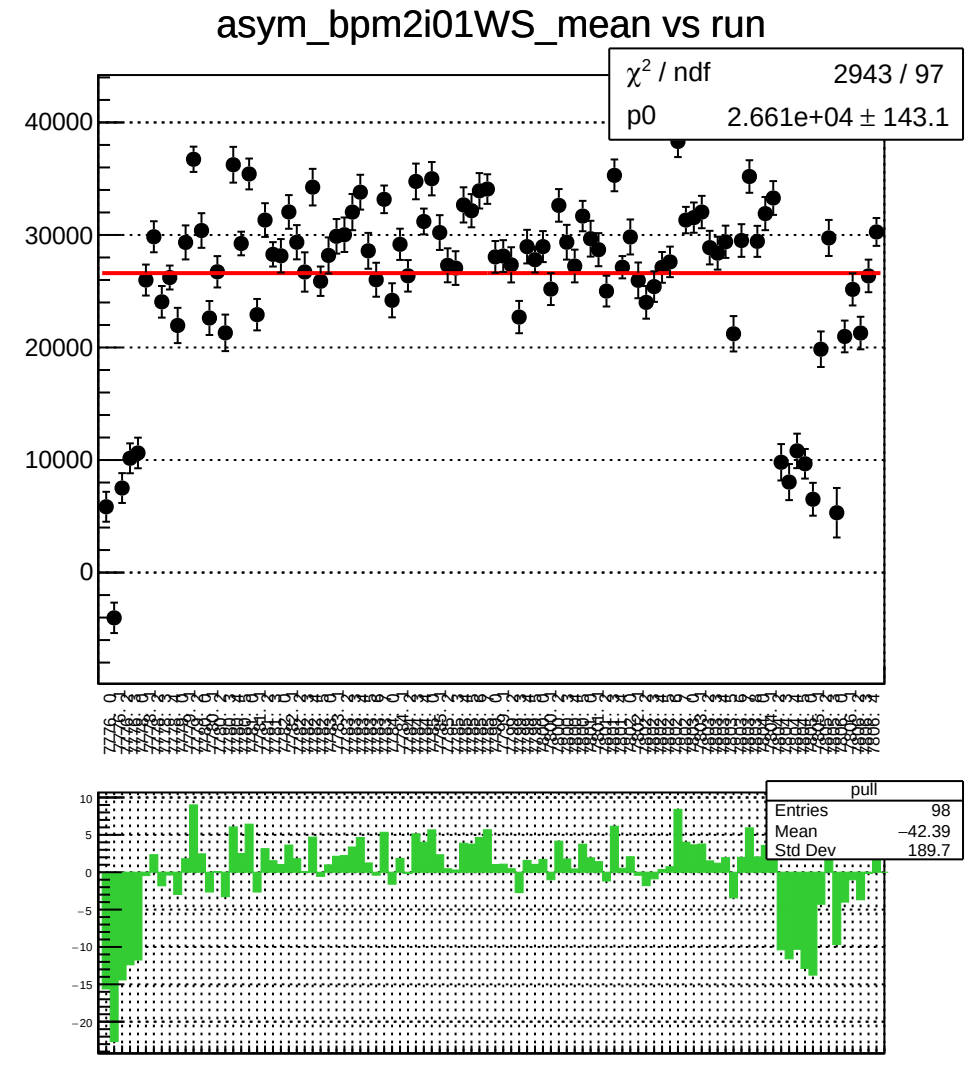

asym_bpm0i07WS_mean vs run
χ² / ndf 116.1 / 97
p0 207.6 ± 350.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean −9128
Std Dev 0
2
1
0
−1
−2
−3

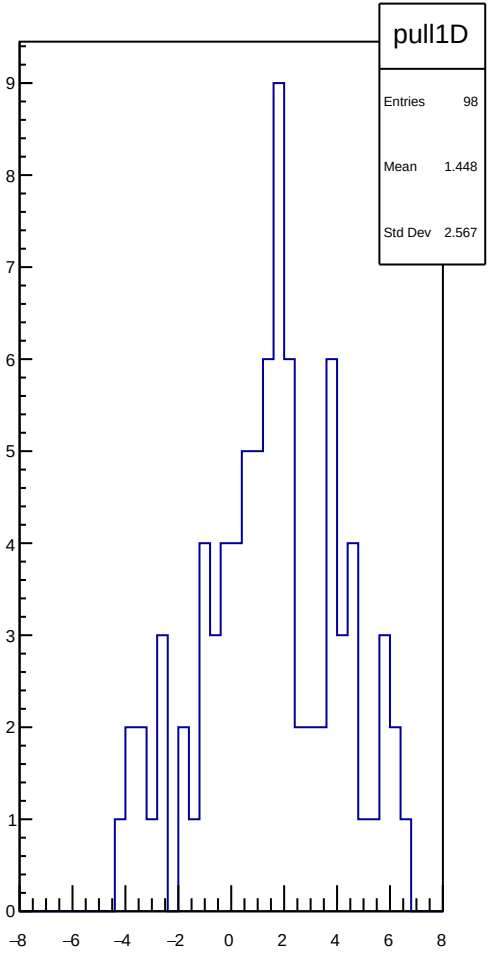

pull1D
Entries 98
Mean 0.0004084
Std Dev 1.089
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i07WS_rms vs run
χ² / ndf 6564 / 97
p0 344.5 ± 0.2476
400
380
360
340
320
300
280
260
240


asym_bpm1i02WS_mean vs run
χ² / ndf 2814 / 97
p0 2.775e+04 ± 145.6
40000
30000
20000
10000
0
pull
Entries 98
Mean 21.35
Std Dev 142.1
5
0
−5
−10
−15
−20
pull1D
Entries 98
Mean 1.455
Std Dev 2.59
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i02WS_rms vs run
χ^2 / ndf 1.444e+04 / 97
p0 143 ± 0.103
340
320
300
280
260
240
220
200
180
160
140
120


asym_bpm2i01WS_mean vs run
χ² / ndf 2943 / 97
p0 2.661e+04 ± 143.1
40000
30000
20000
10000
0
pull
Entries 98
Mean −42.39
Std Dev 189.7
10
5
0
−5
−10
−15
−20


pull1D
Entries 98
Mean 1.448
Std Dev 2.567
9
8
7
6
5
4
3
2
1
0
−8
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−4
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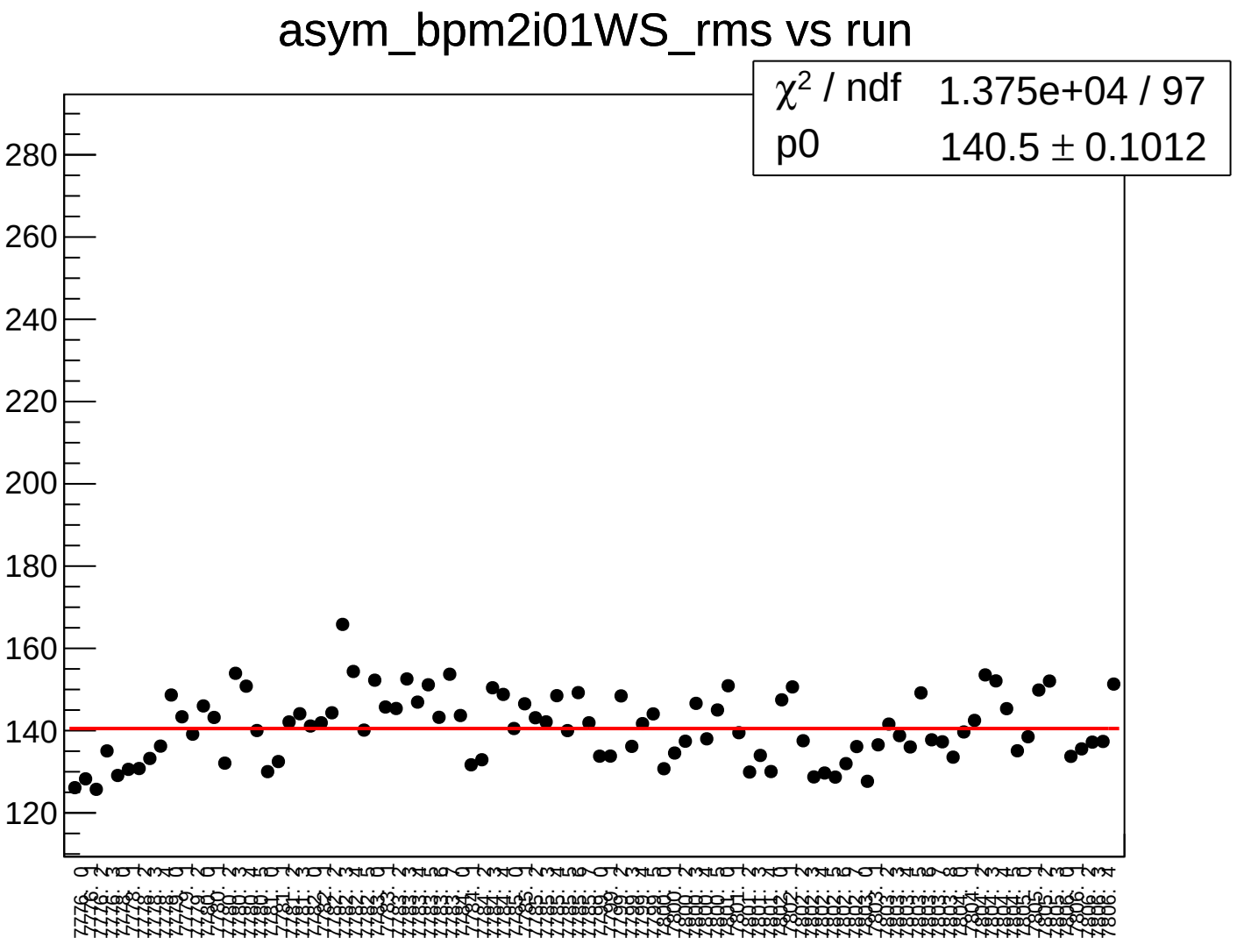
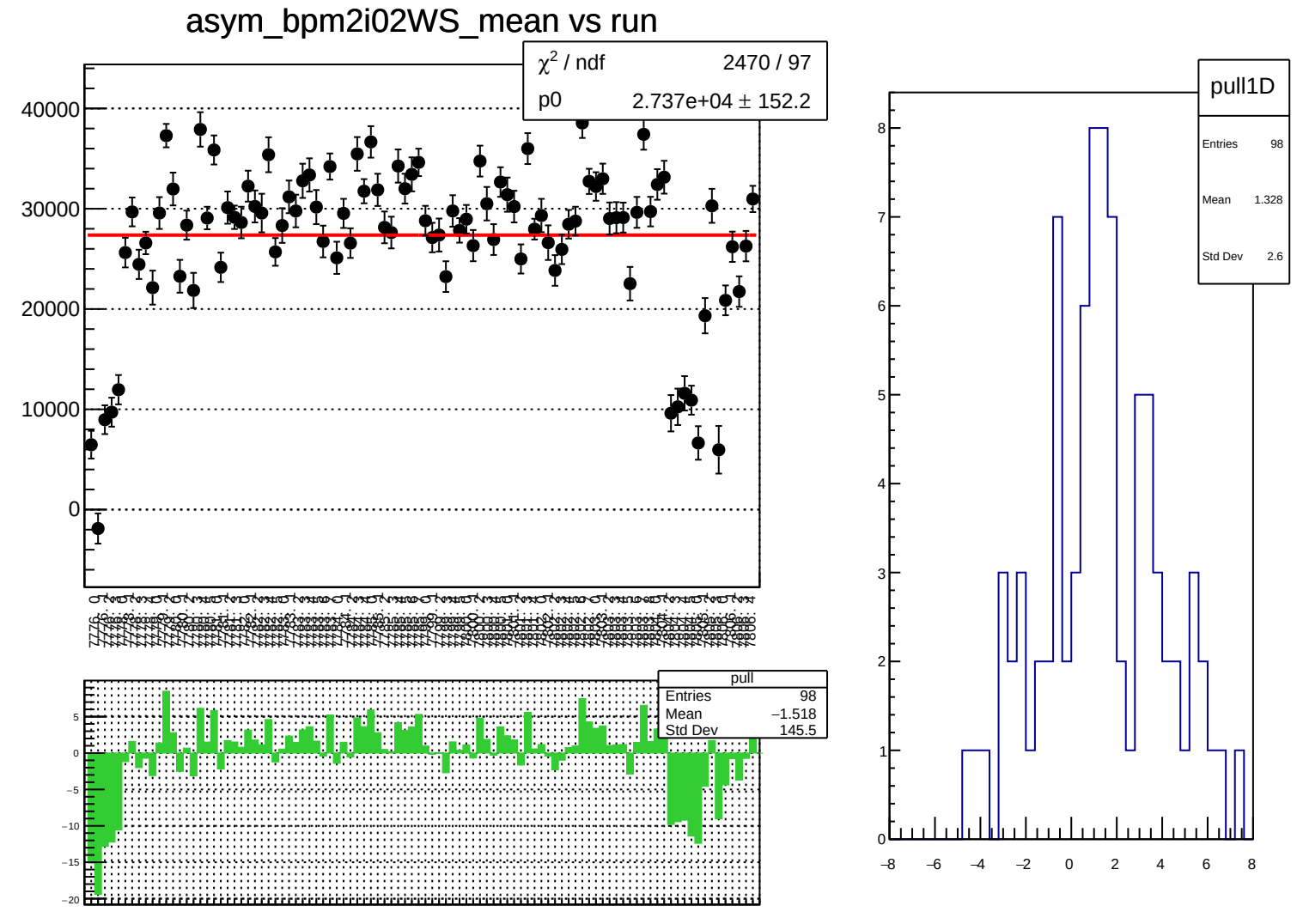
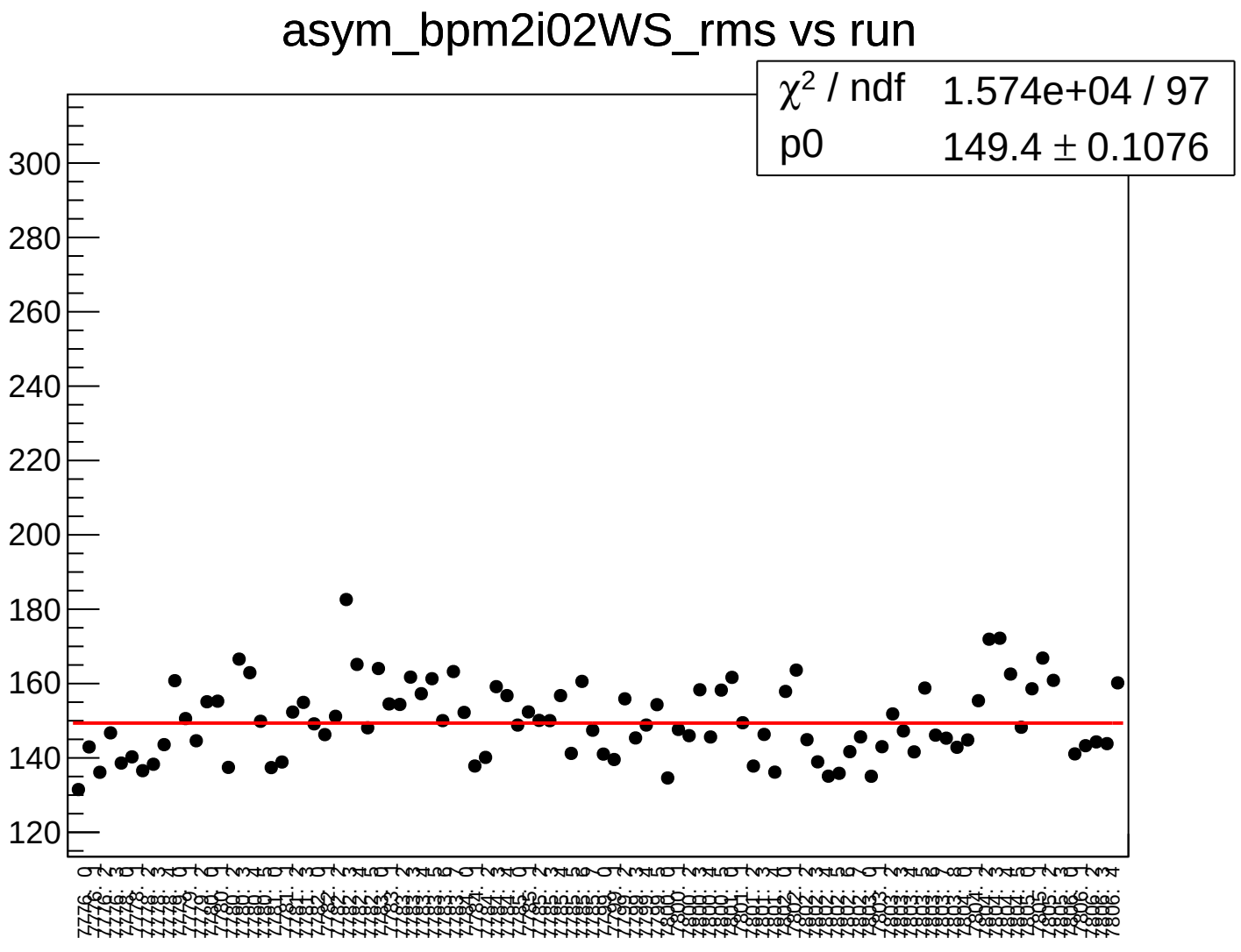
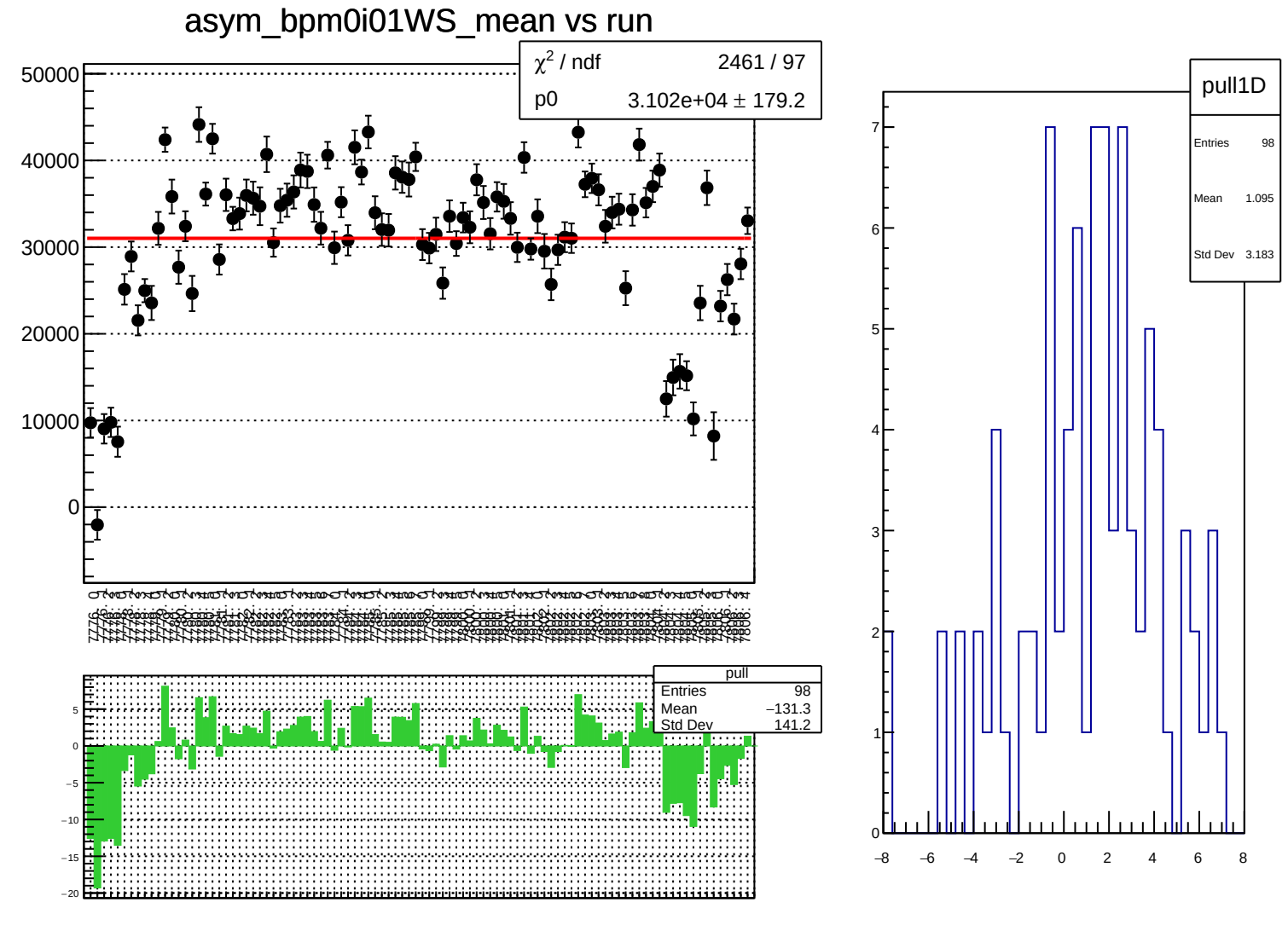
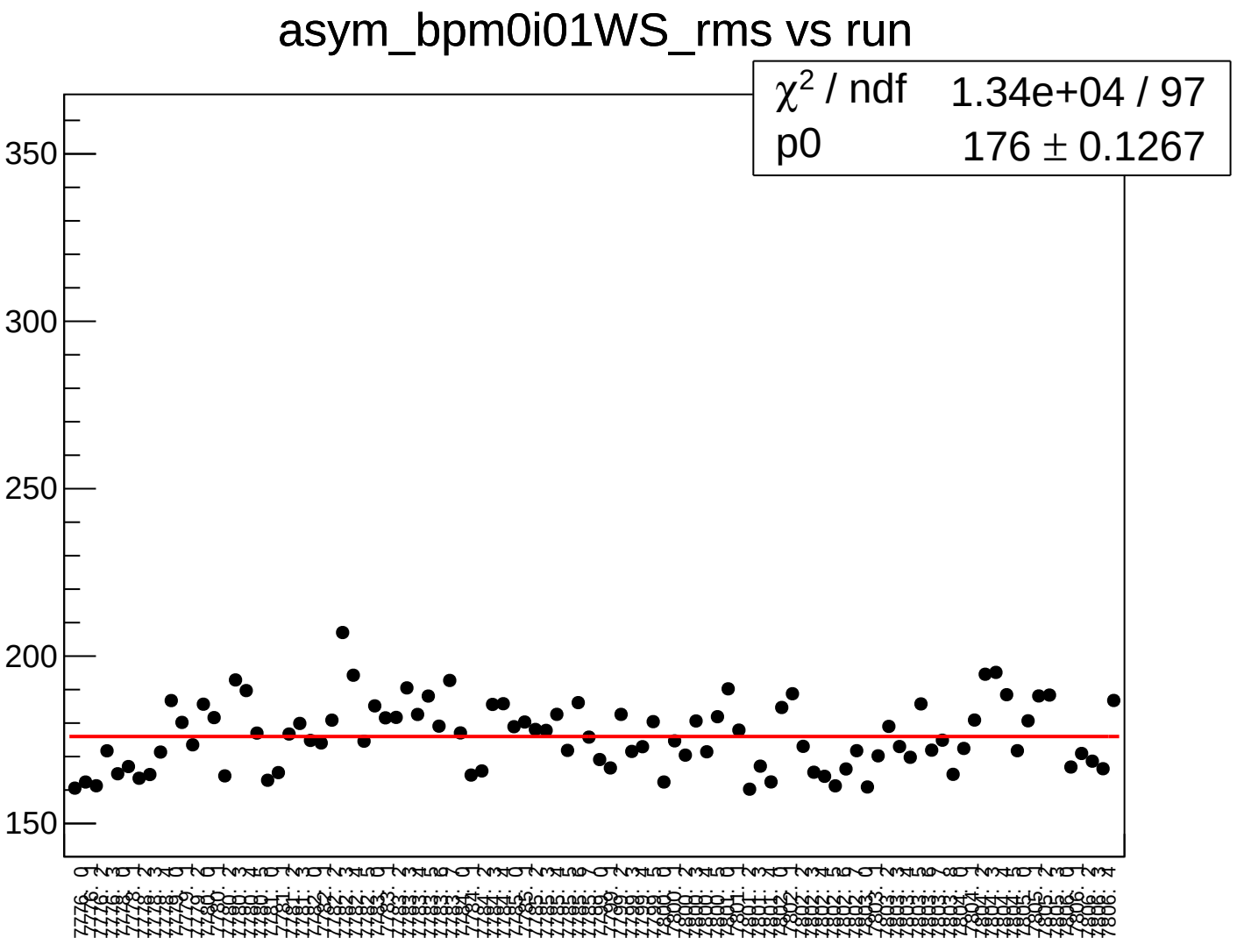
0
2
4
6
8

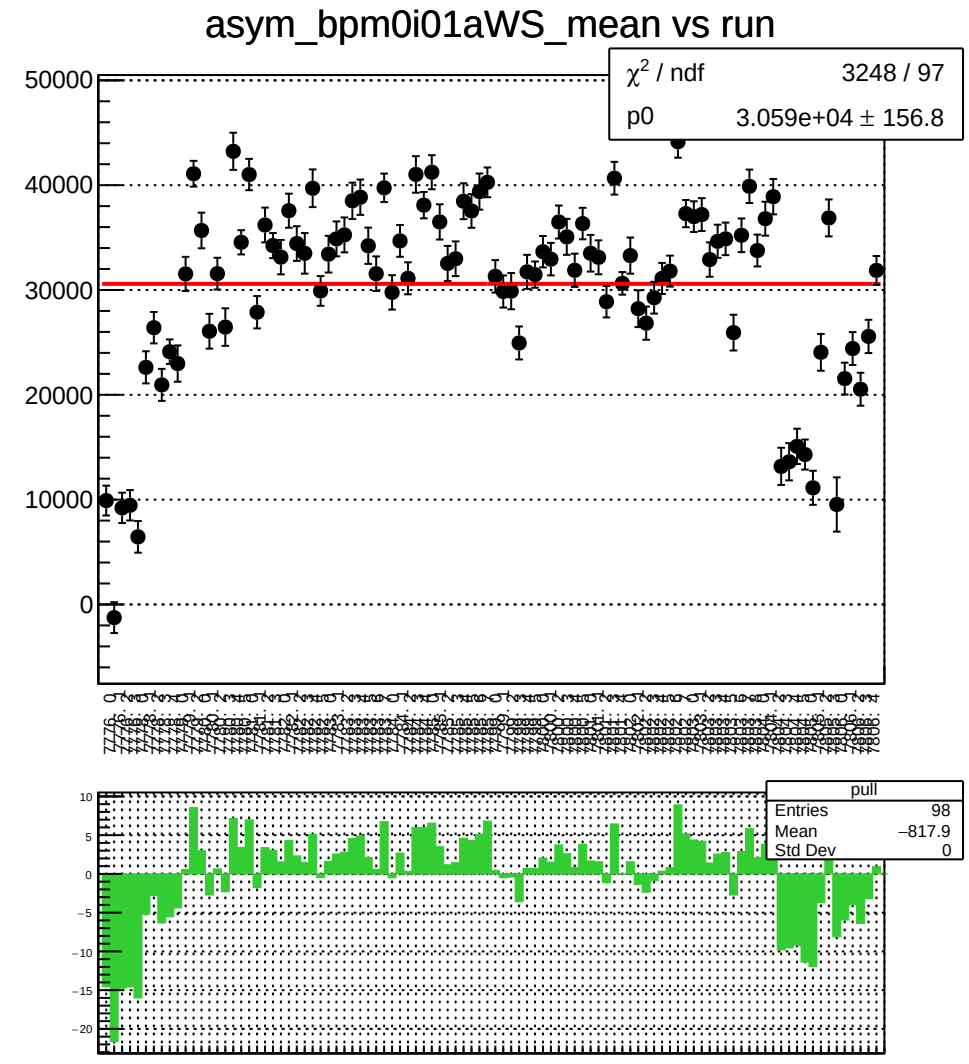

asym_bpm2i01WS_rms vs run
χ² / ndf 1.375e+04 / 97
p0 140.5 ± 0.1012
280
260
240
220
200
180
160
140
120

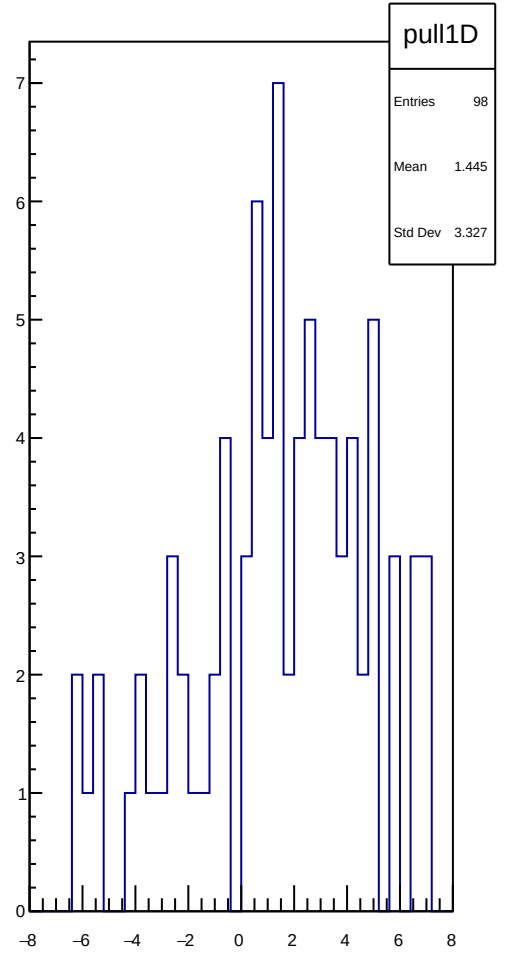

asym_bpm2i02WS_mean vs run
χ² / ndf 2470 / 97
p0 2.737e+04 ± 152.2
40000
30000
20000
10000
0
pull
Entries 98
Mean −1.518
Std Dev 145.5
5
0
−5
−10
−15
−20
pull1D
Entries 98
Mean 1.328
Std Dev 2.6
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

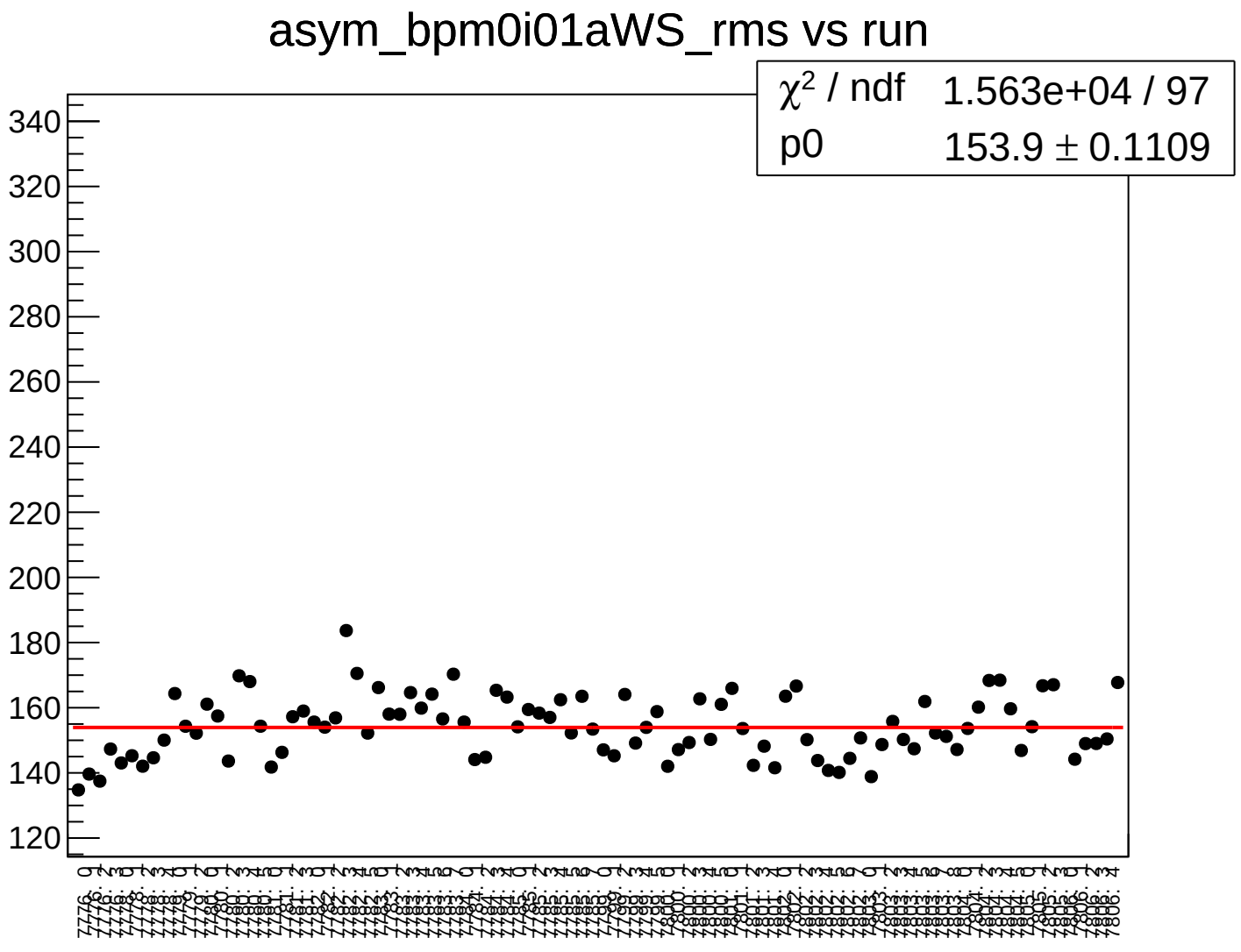

asym_bpm2i02WS_rms vs run
χ^2 / ndf 1.574e+04 / 97
p0 149.4 ± 0.1076
300
280
260
240
220
200
180
160
140
120

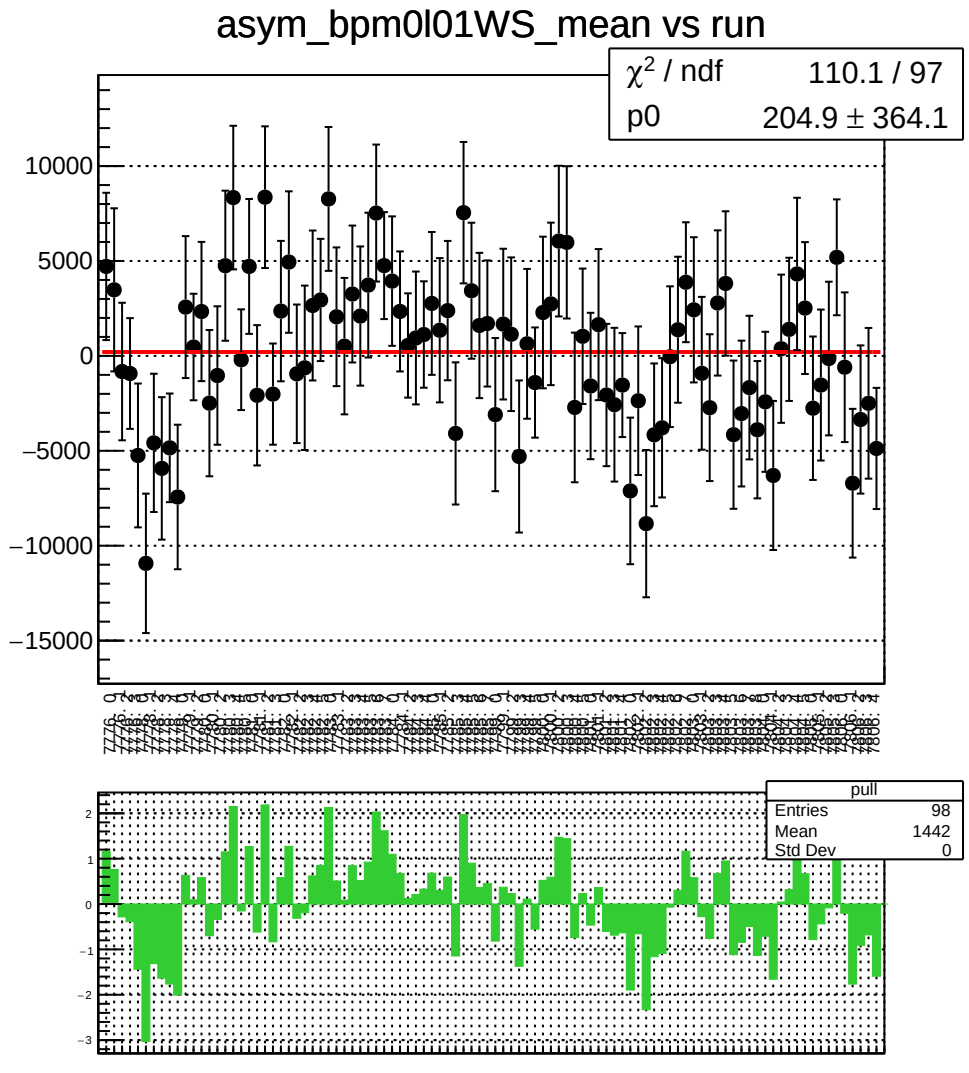

asym_bpm0i01WS_mean vs run
χ² / ndf 2461 / 97
p0 3.102e+04 ± 179.2
50000
40000
30000
20000
10000
0
pull
Entries 98
Mean −131.3
Std Dev 141.2
5
0
−5
−10
−15
−20
pull1D
Entries 98
Mean 1.095
Std Dev 3.183
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

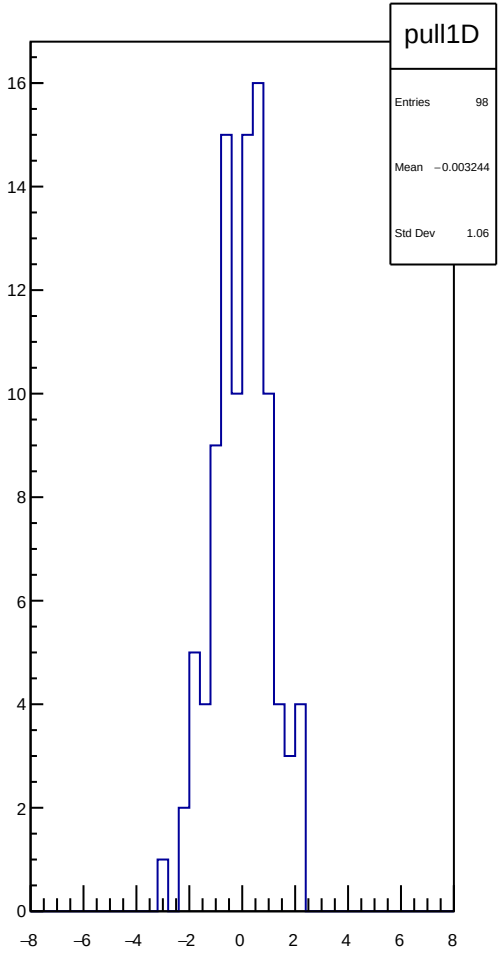

asym_bpm0i01WS_rms vs run
χ^2 / ndf 1.34e+04 / 97
p0 176 ± 0.1267
350
300
250
200
150

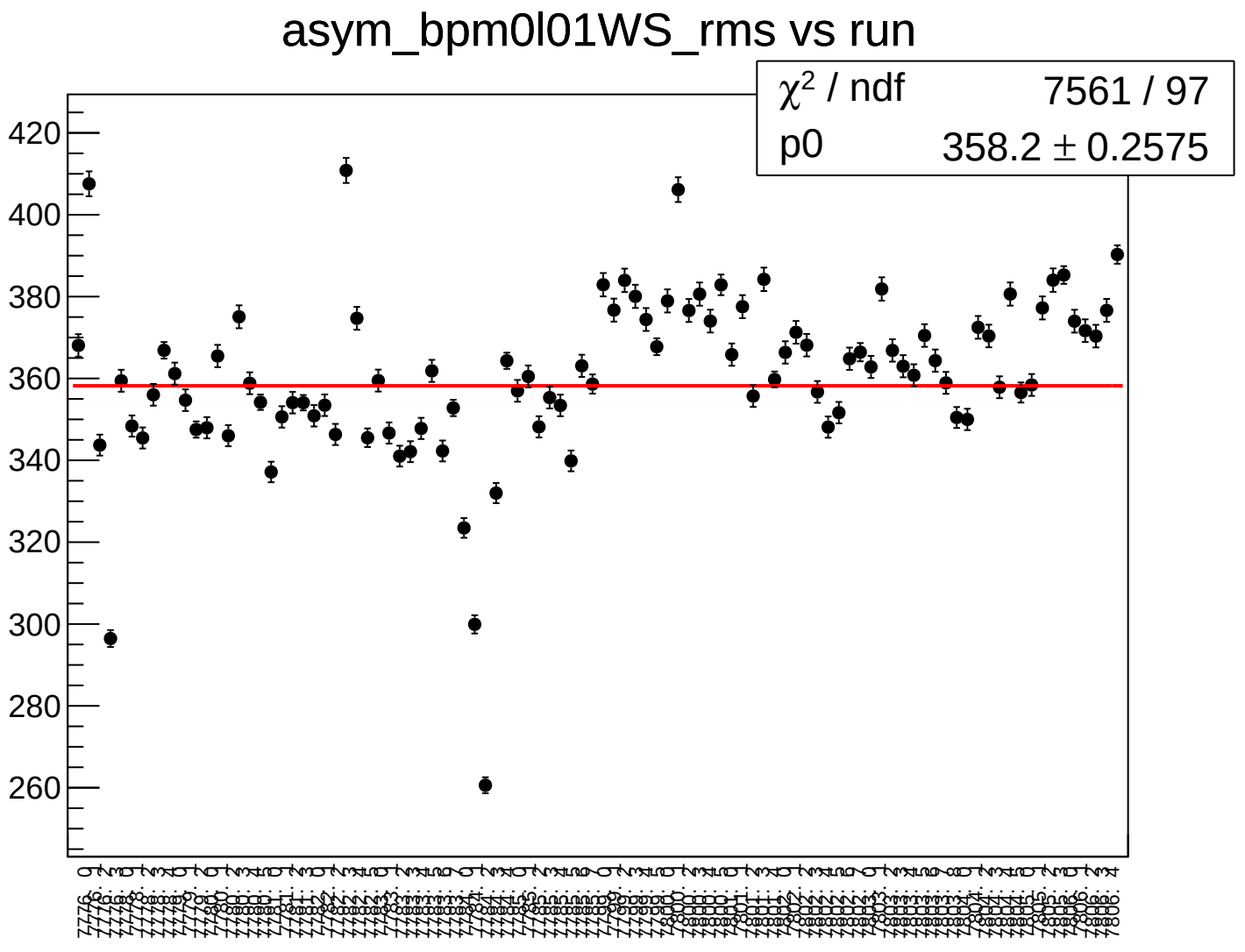

asym_bpm0i01aWS_mean vs run
χ² / ndf 3248 / 97
p0 3.059e+04 ± 156.8
50000
40000
30000
20000
10000
0
pull
Entries 98
Mean −817.9
Std Dev 0
10
5
0
−5
−10
−15
−20

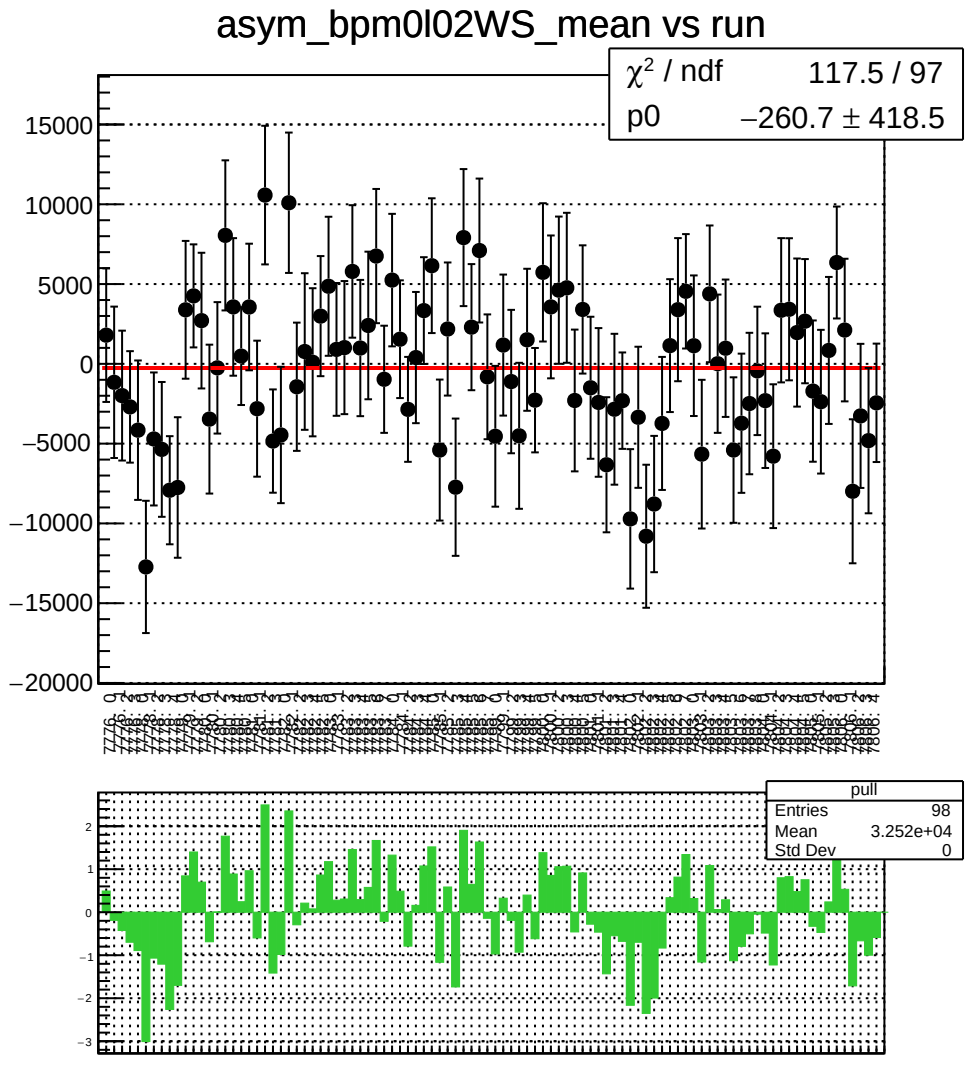

pull1D
Entries 98
Mean 1.445
Std Dev 3.327
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

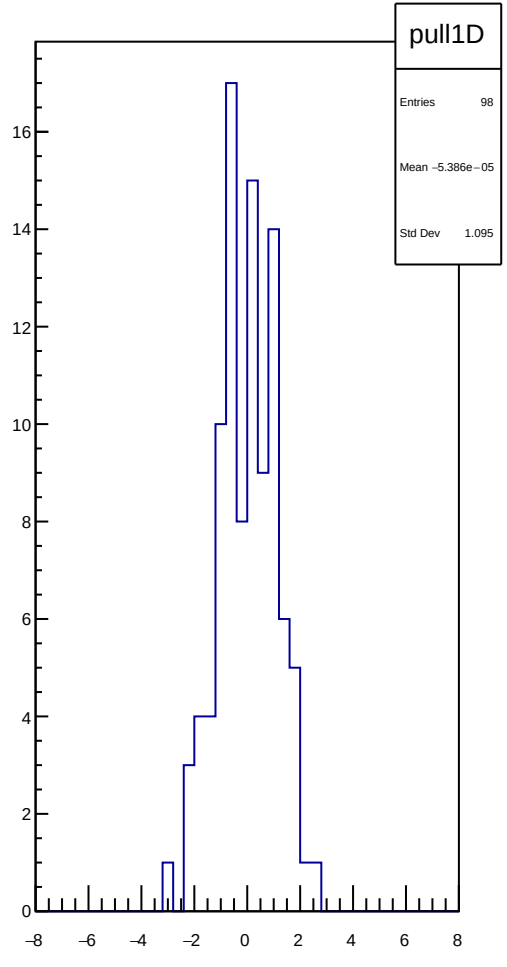

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 1.563e+04 / 97
p0 153.9 ± 0.1109
340
320
300
280
260
240
220
200
180
160
140
120

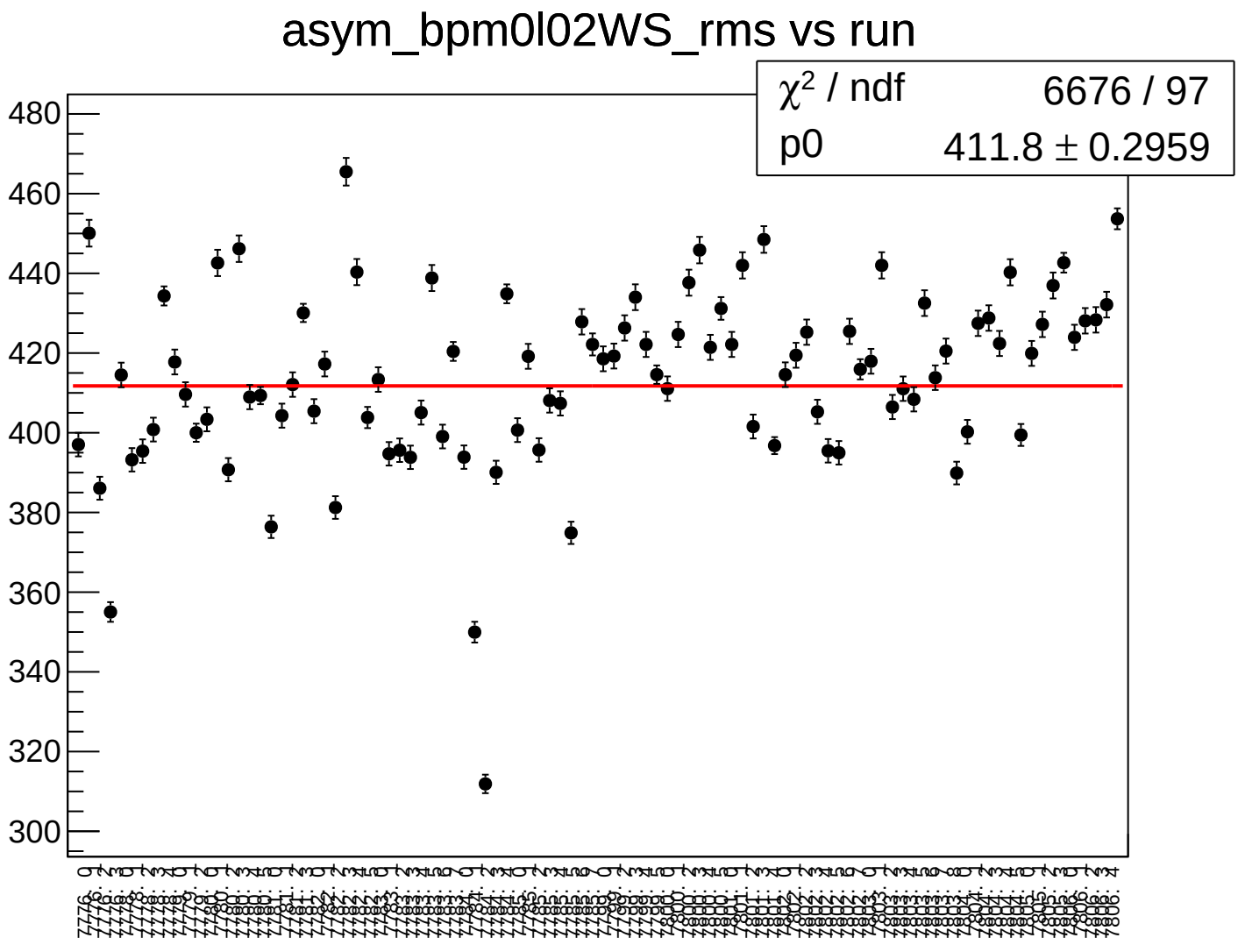

asym_bpm0l01WS_mean vs run
χ^2 / ndf 110.1 / 97
p0 204.9 ± 364.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 1442
Std Dev 0
2
1
0
−1
−2
−3

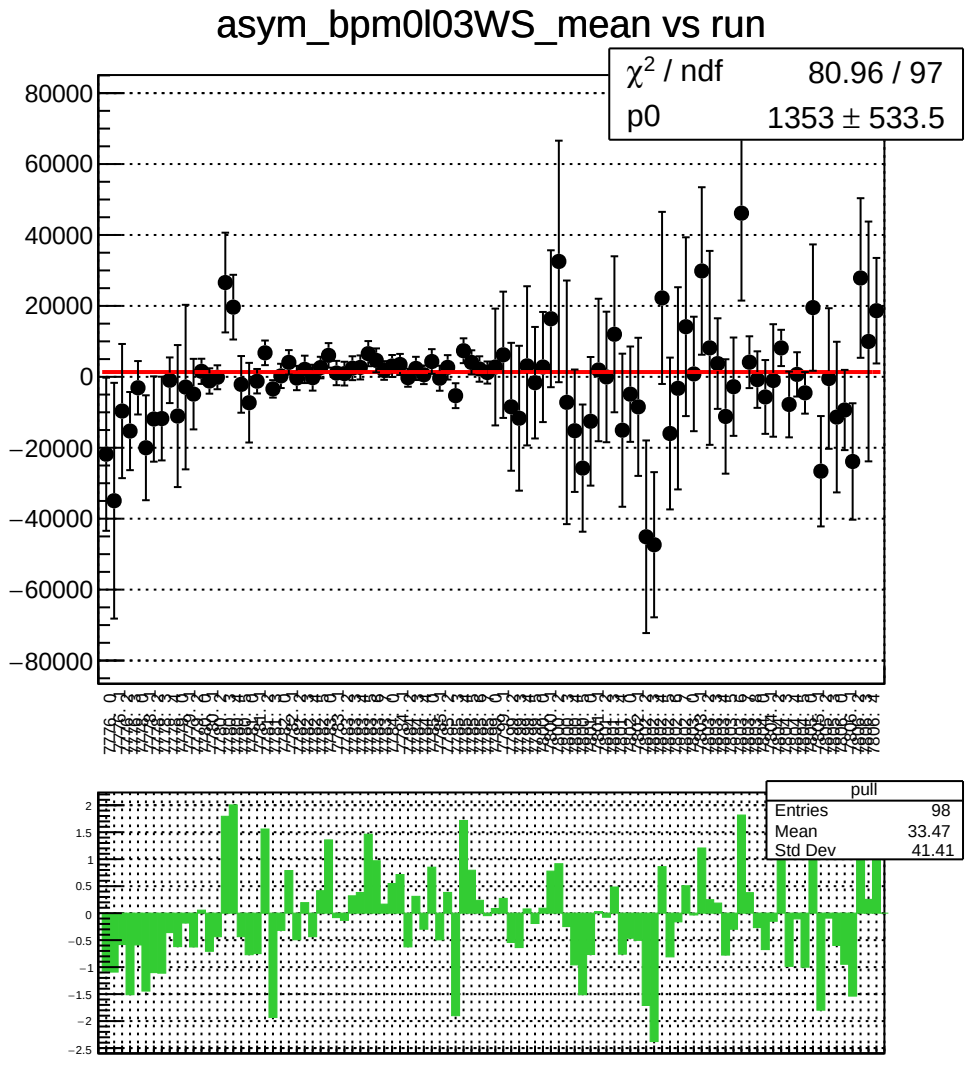

pull1D
Entries 98
Mean −0.003244
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

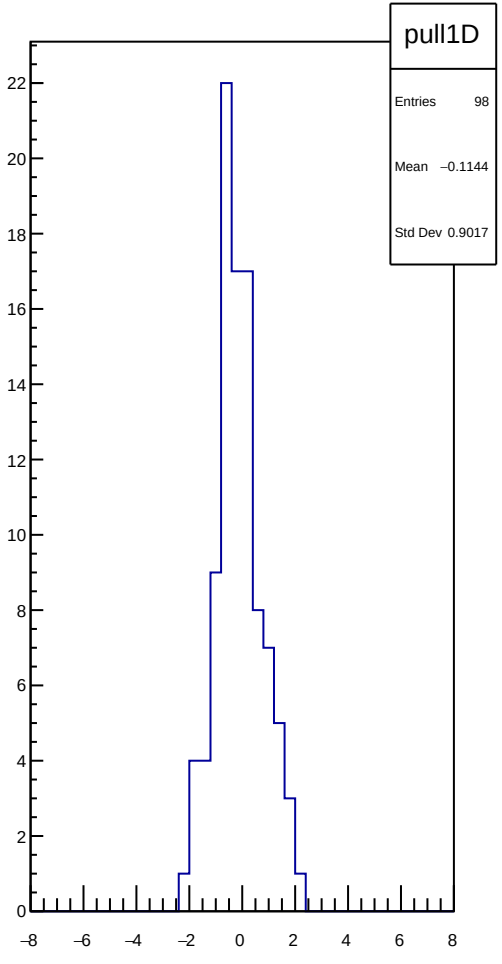

asym_bpm0l01WS_rms vs run
χ² / ndf 7561 / 97
p0 358.2 ± 0.2575
420
400
380
360
340
320
300
280
260

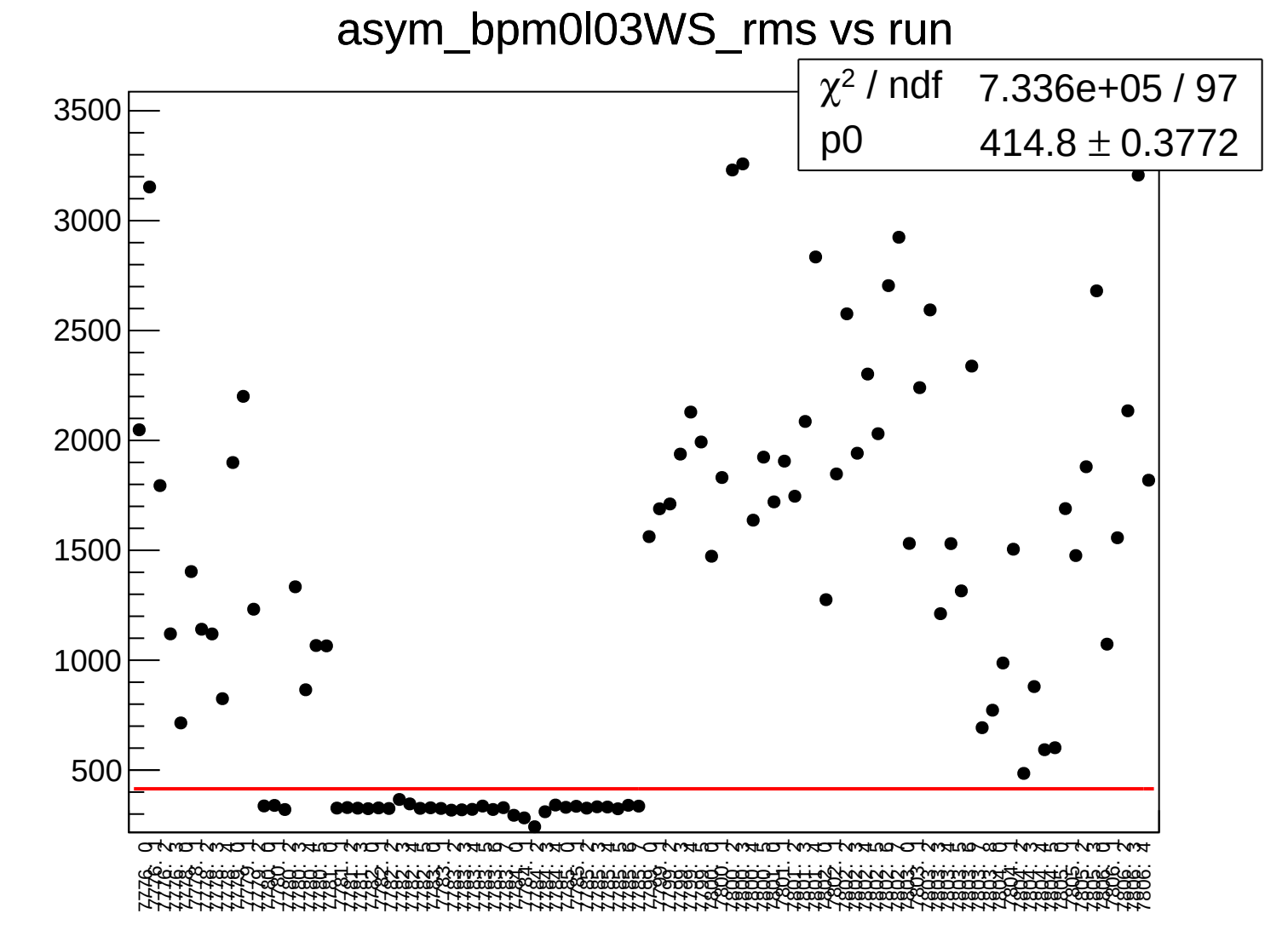

asym_bpm0l02WS_mean vs run
χ² / ndf 117.5 / 97
p0 −260.7 ± 418.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 98
Mean 3.252e+04
Std Dev 0
2
1
0
−1
−2
−3

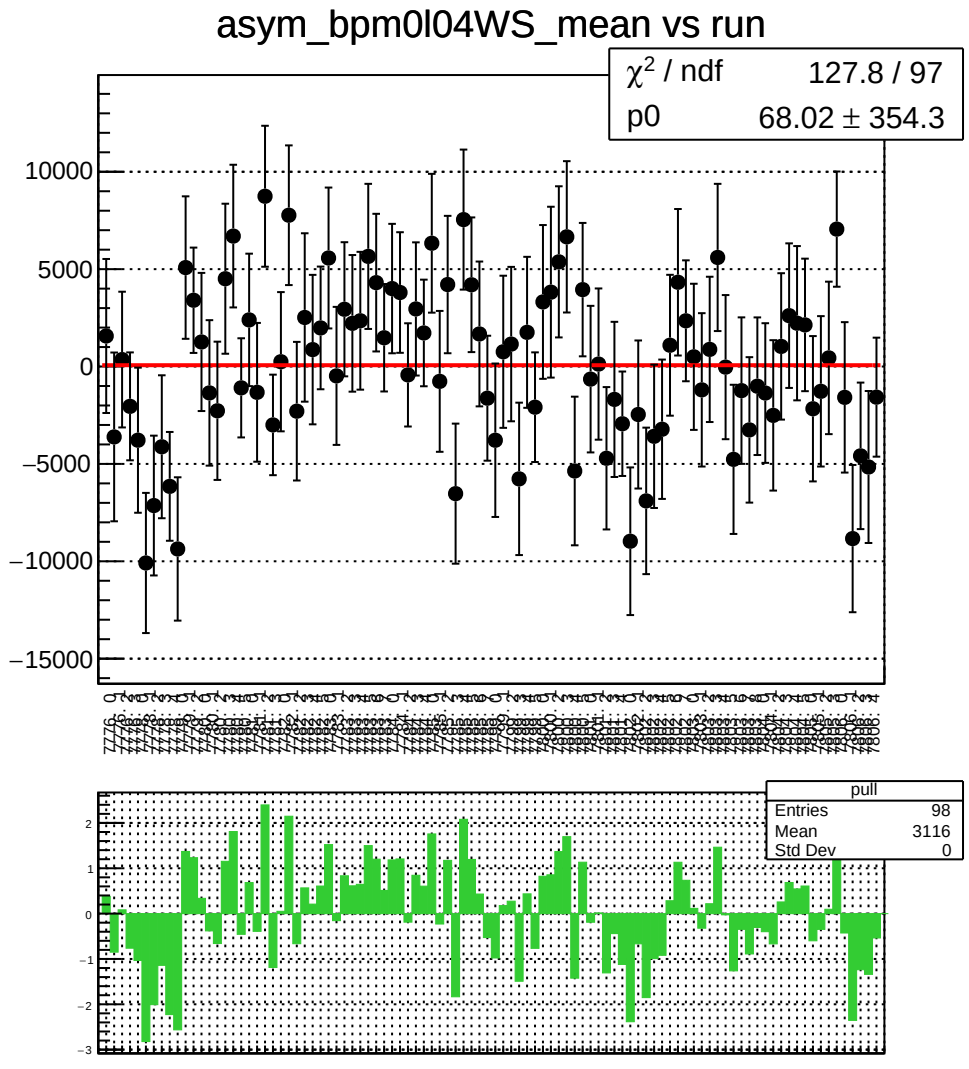

pull1D
Entries 98
Mean −5.386e−05
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

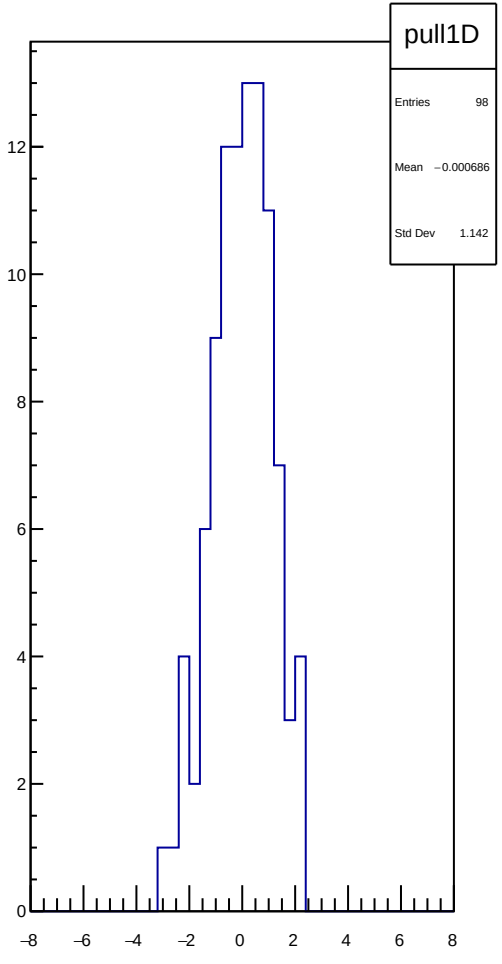

asym_bpm0l02WS_rms vs run
χ² / ndf 6676 / 97
p0 411.8 ± 0.2959
480
460
440
420
400
380
360
340
320
300

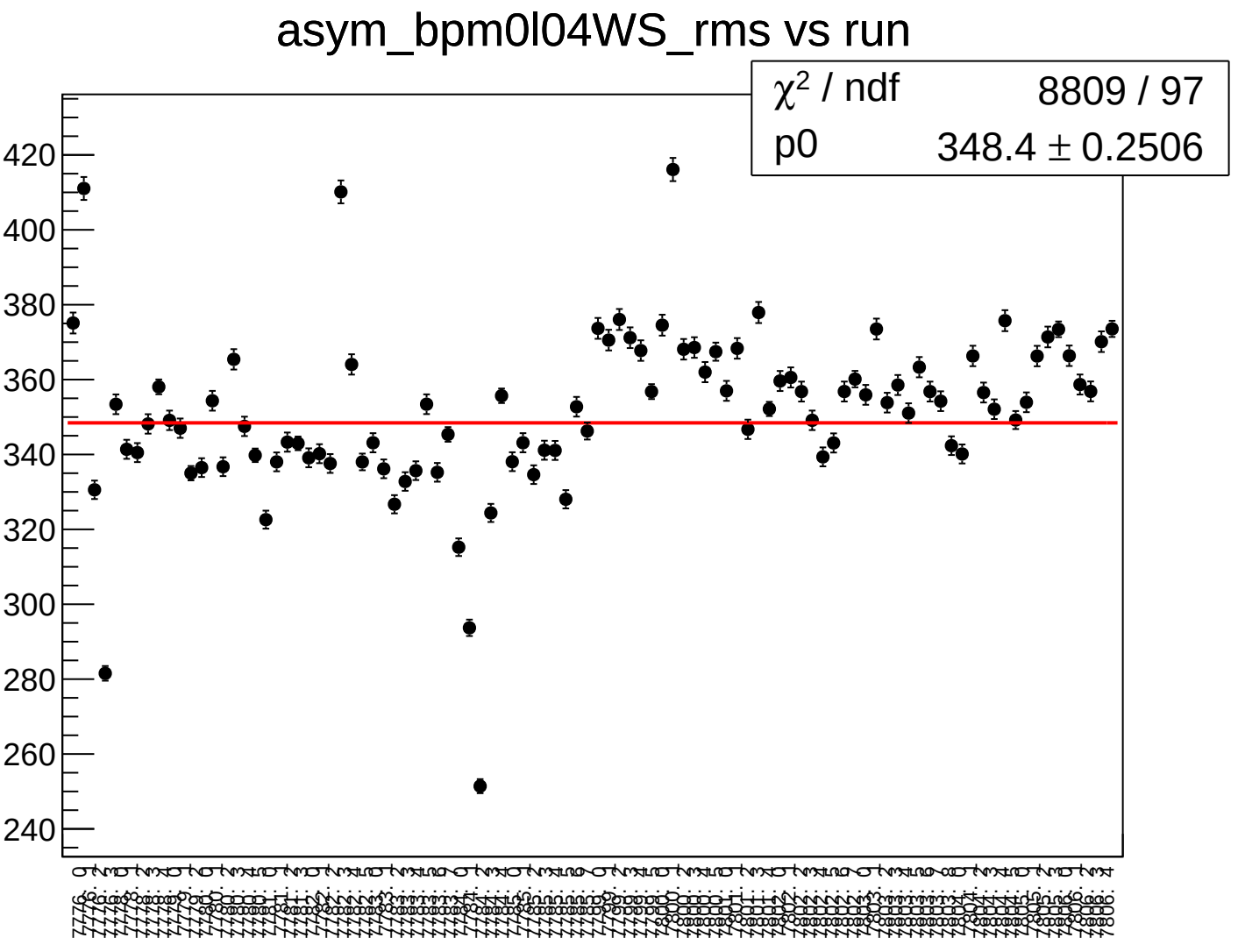

asym_bpm0l03WS_mean vs run
χ² / ndf 80.96 / 97
p0 1353 ± 533.5
pull
Entries 98
Mean 33.47
Std Dev 41.41

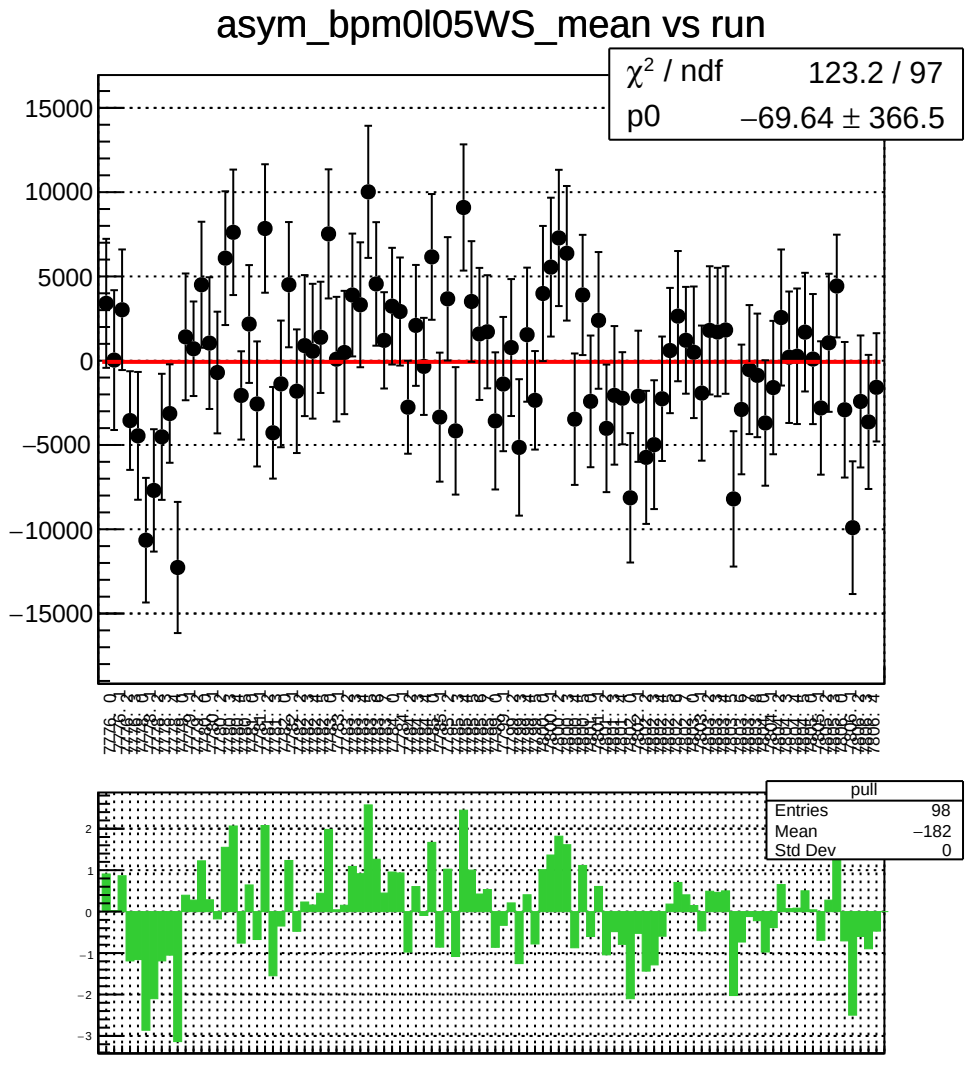

pull1D
Entries 98
Mean −0.1144
Std Dev 0.9017

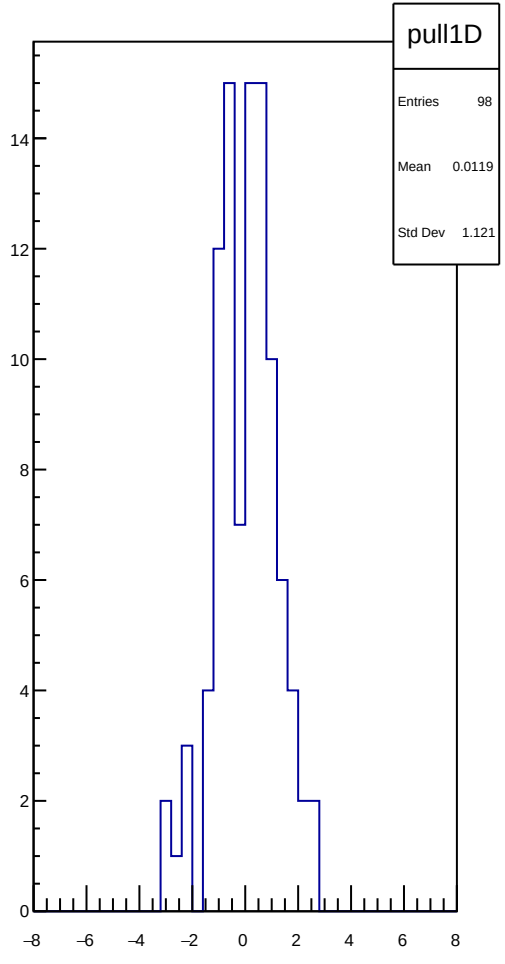

asym_bpm0l03WS_rms vs run
χ² / ndf 7.336e+05 / 97
p0 414.8 ± 0.3772
3500
3000
2500
2000
1500
1000
500

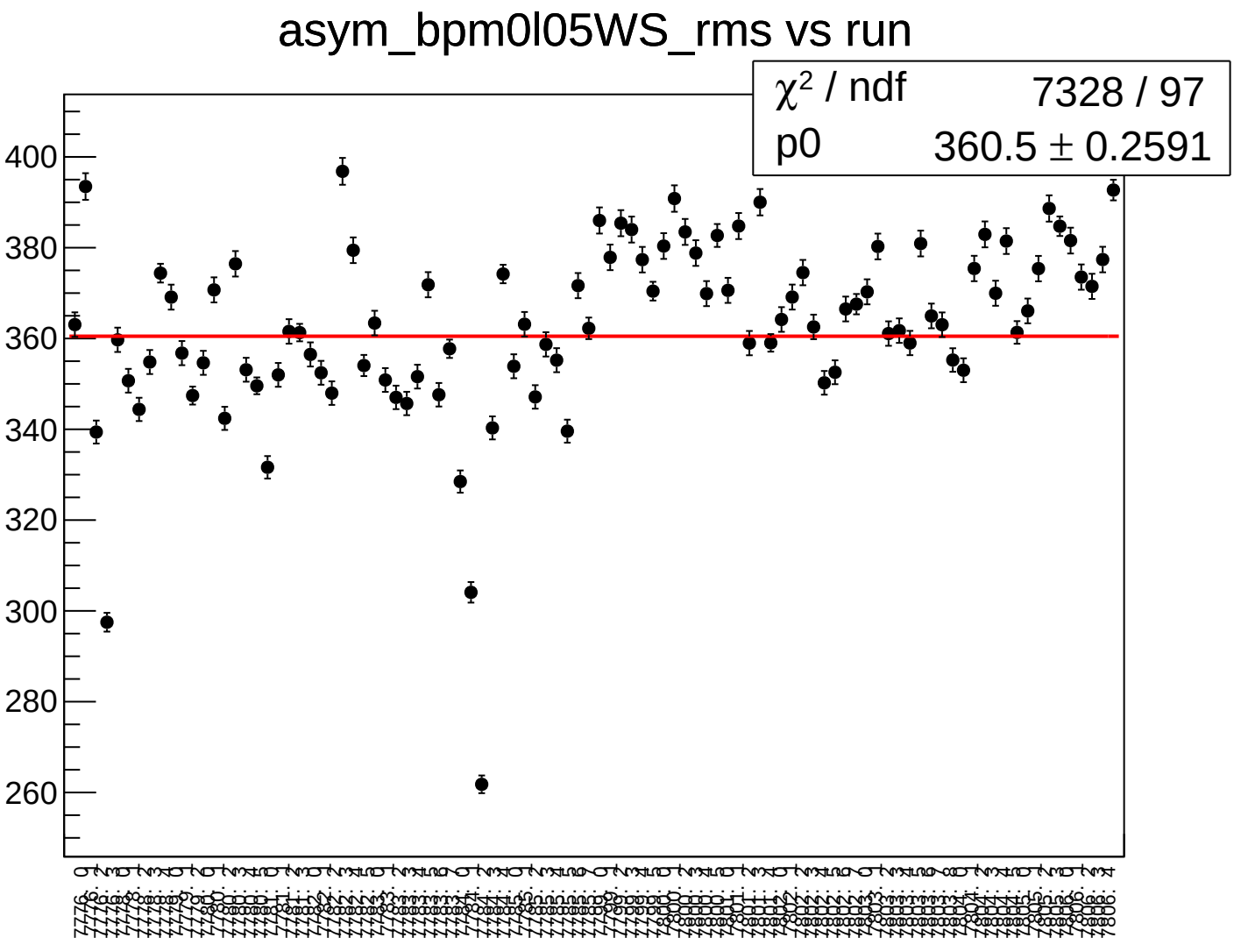

asym_bpm0l04WS_mean vs run
χ² / ndf 127.8 / 97
p0 68.02 ± 354.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 3116
Std Dev 0
2
1
0
−1
−2
−3

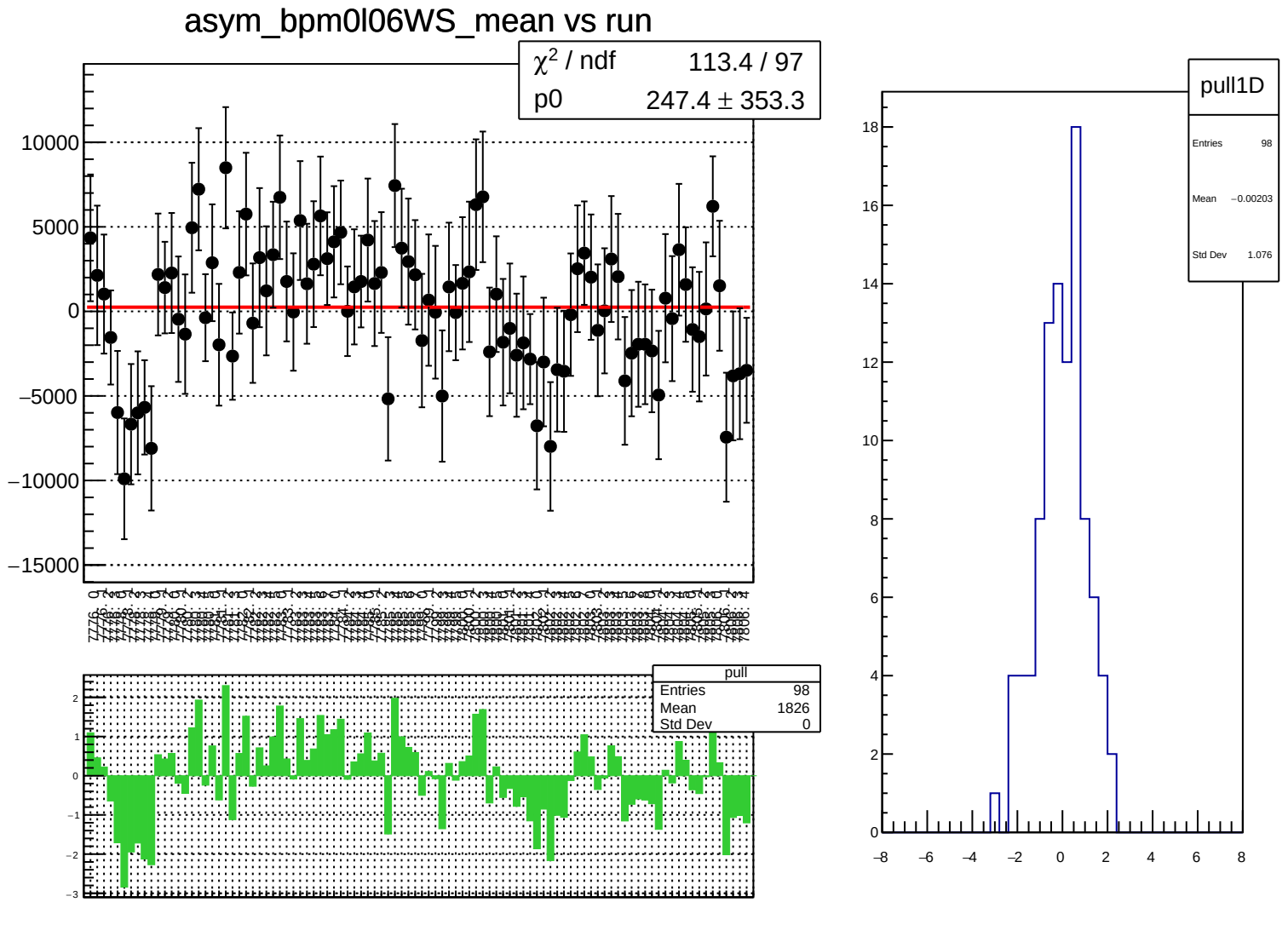

pull1D
Entries 98
Mean −0.000686
Std Dev 1.142
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

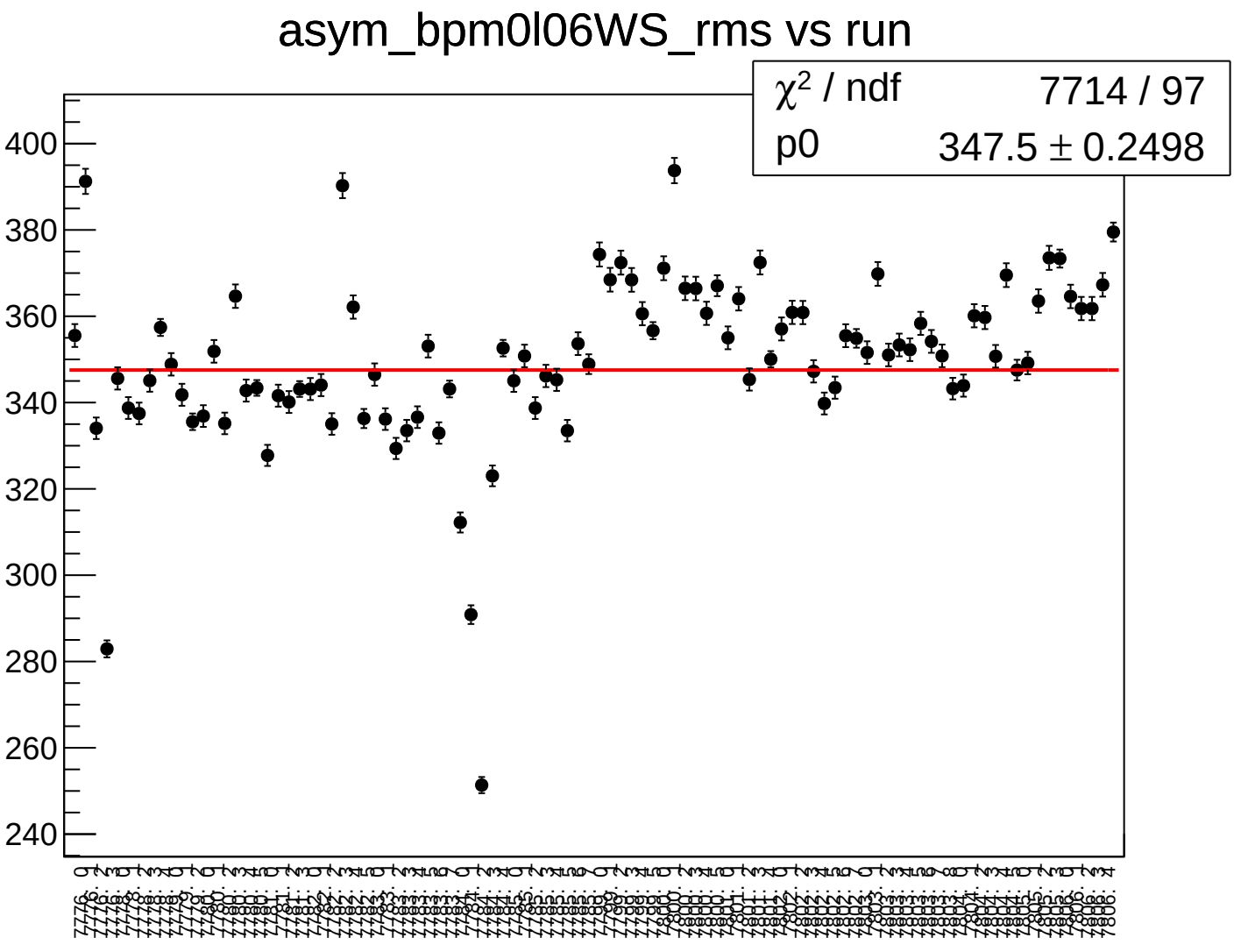

asym_bpm0l04WS_rms vs run
χ² / ndf 8809 / 97
p0 348.4 ± 0.2506
420
400
380
360
340
320
300
280
260
240

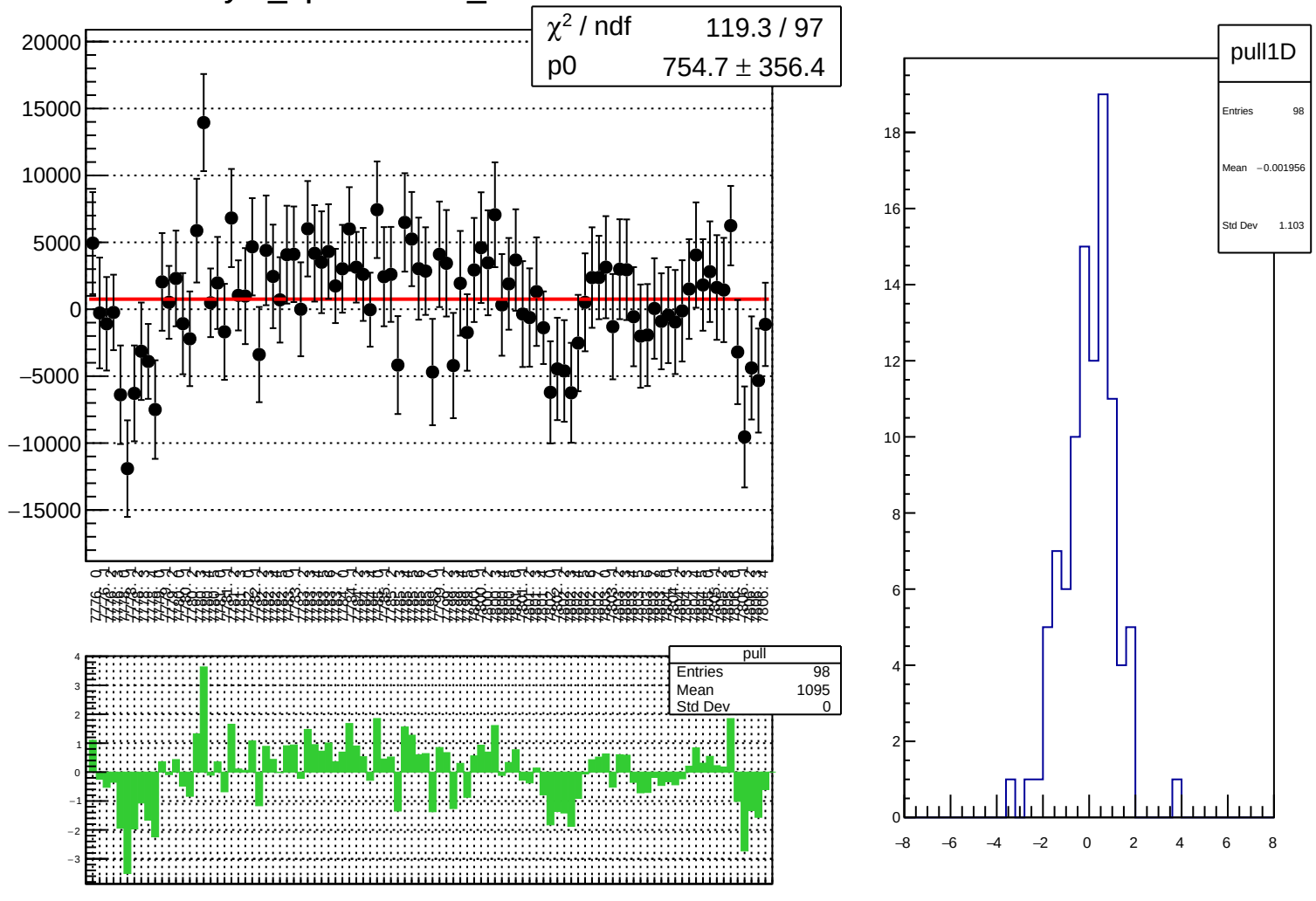

asym_bpm0l05WS_mean vs run
χ² / ndf 123.2 / 97
p0 −69.64 ± 366.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean −182
Std Dev 0
2
1
0
−1
−2
−3

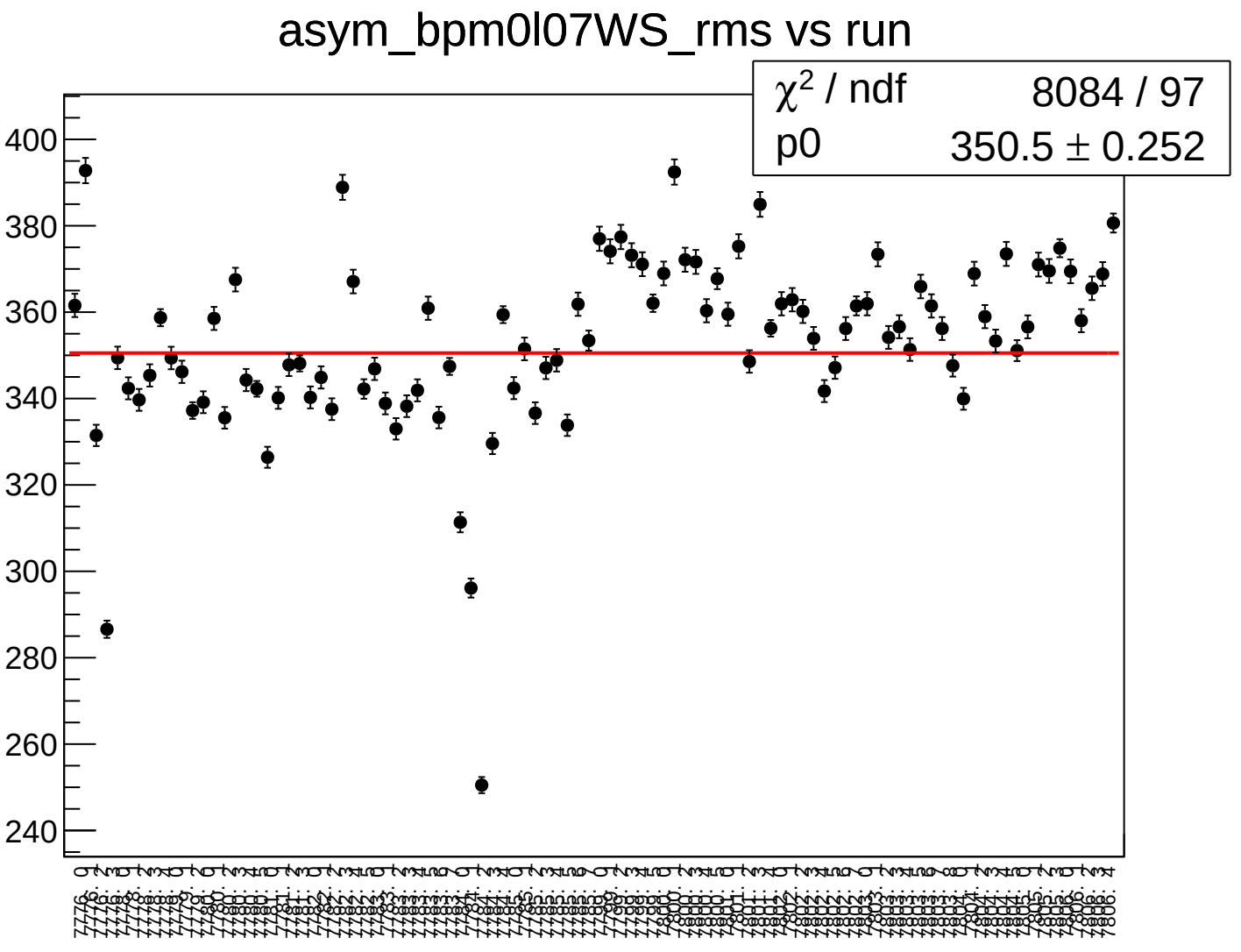

pull1D
Entries 98
Mean 0.0119
Std Dev 1.121
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

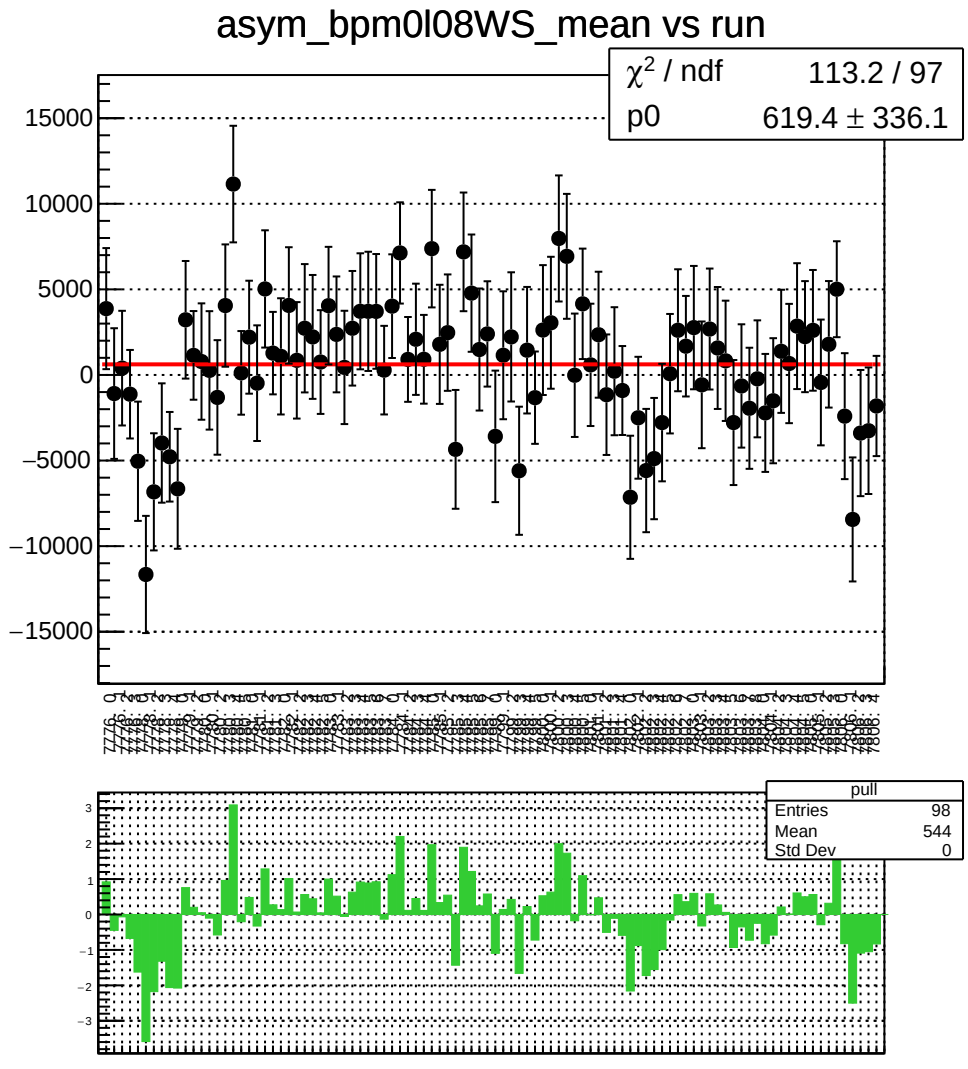

asym_bpm0l05WS_rms vs run
χ² / ndf 7328 / 97
p0 360.5 ± 0.2591
400
380
360
340
320
300
280
260

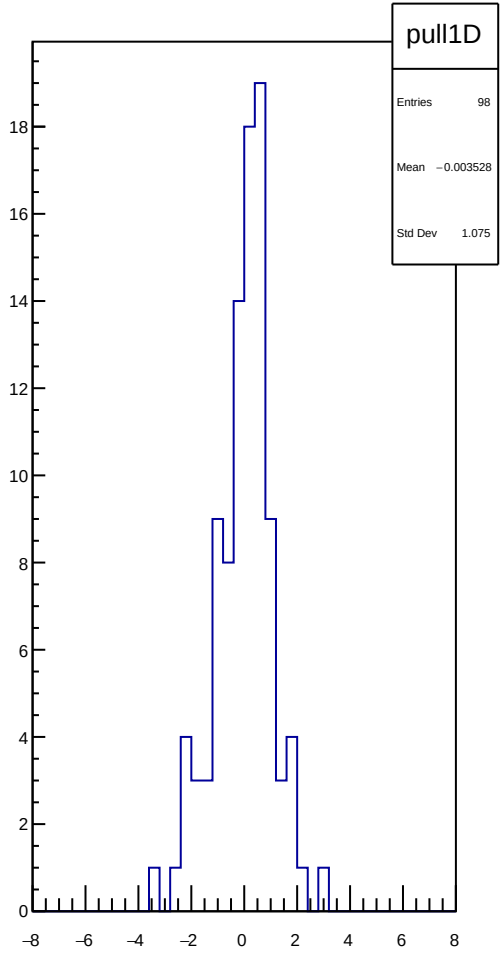

asym_bpm0l06WS_mean vs run
χ² / ndf 113.4 / 97
p0 247.4 ± 353.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 1826
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean −0.00203
Std Dev 1.076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l06WS_rms vs run
χ² / ndf 7714 / 97
p0 347.5 ± 0.2498
400
380
360
340
320
300
280
260
240


asym_bpm0l07WS_mean vs run
χ² / ndf 119.3 / 97
p0 754.7 ± 356.4
pull
Entries 98
Mean 1095
Std Dev 0
pull1D
Entries 98
Mean −0.001956
Std Dev 1.103


asym_bpm0l07WS_rms vs run
χ² / ndf 8084 / 97
p0 350.5 ± 0.252
400
380
360
340
320
300
280
260
240


asym_bpm0l08WS_mean vs run
χ² / ndf 113.2 / 97
p0 619.4 ± 336.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 544
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 98
Mean −0.003528
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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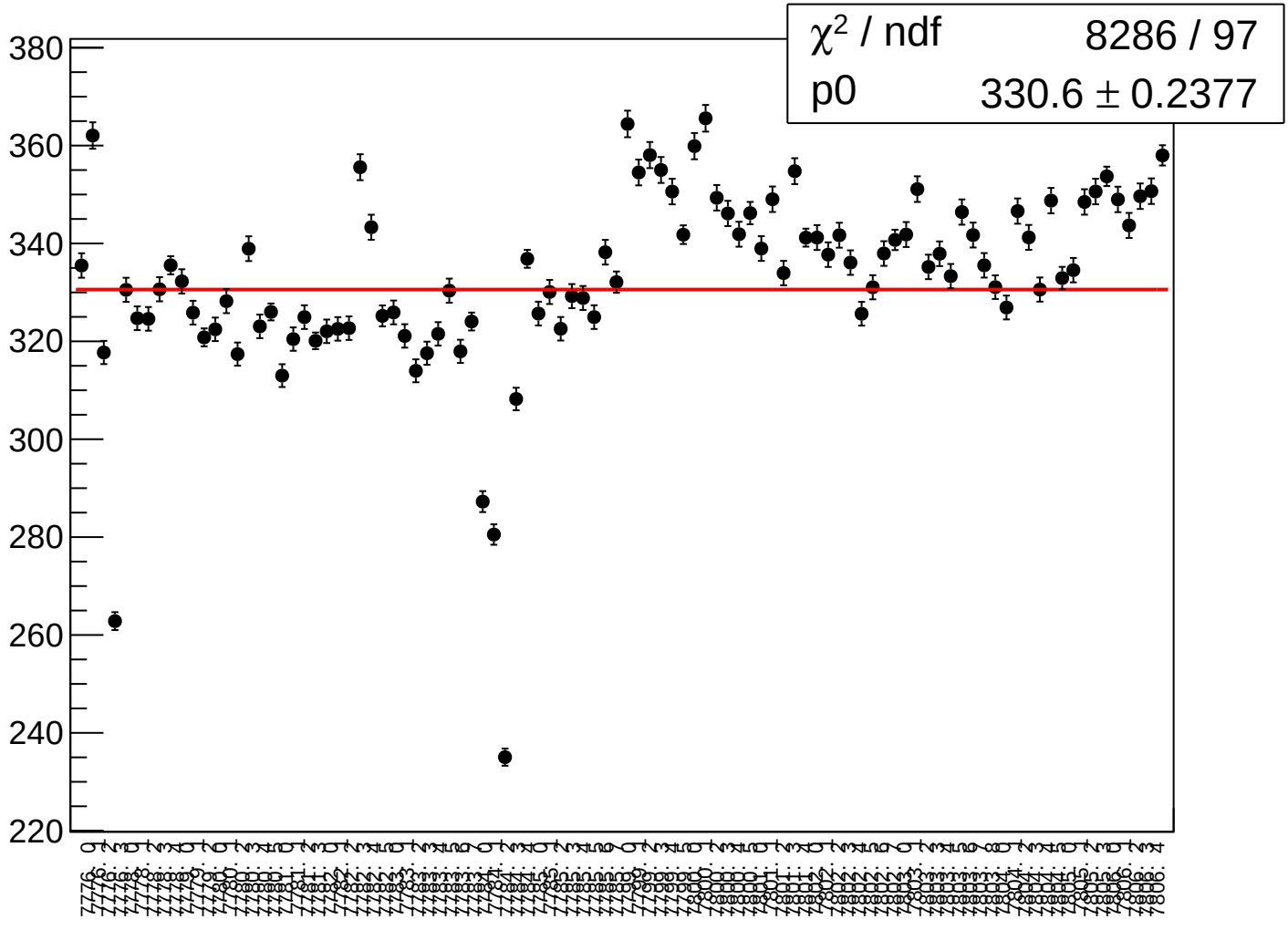
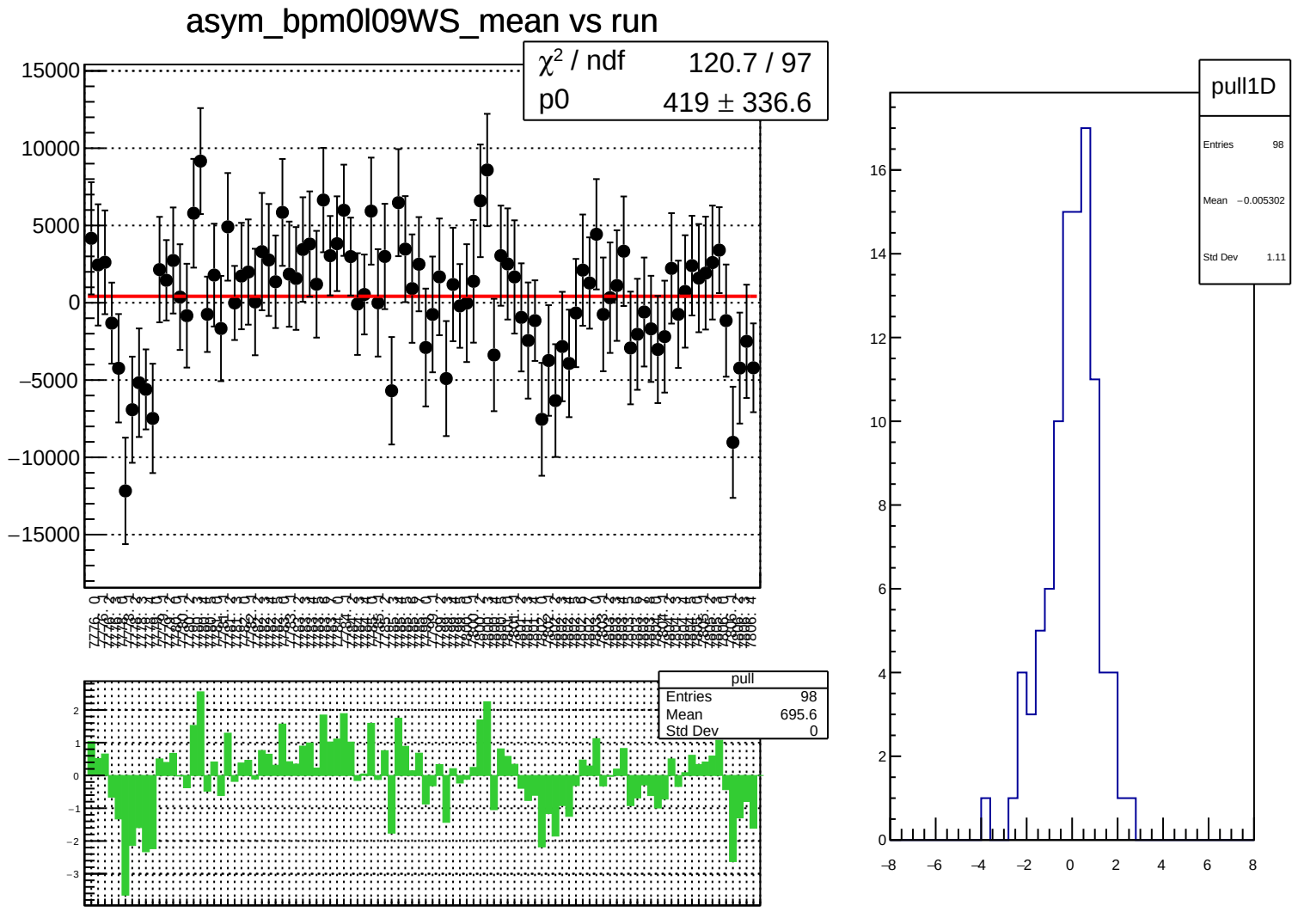
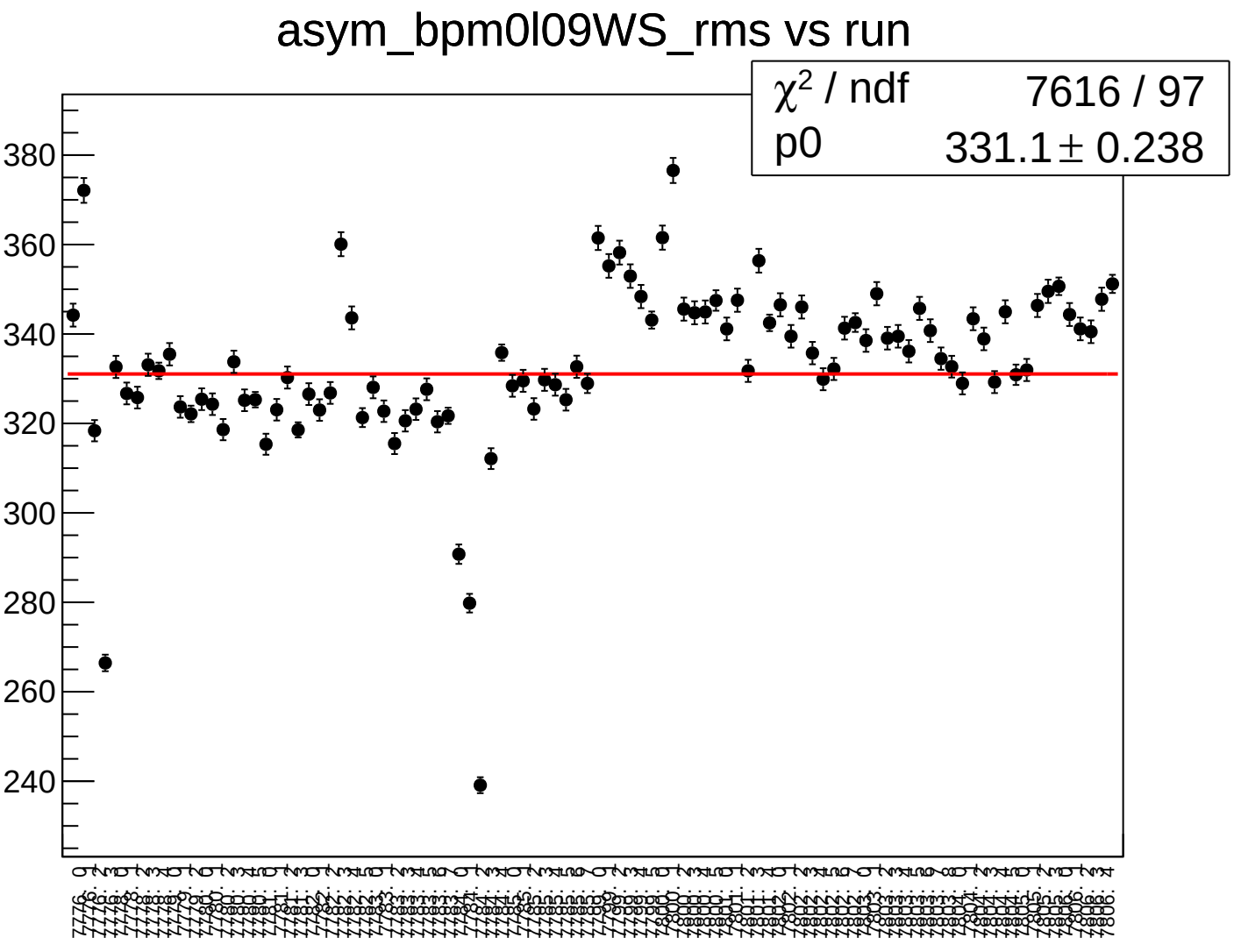
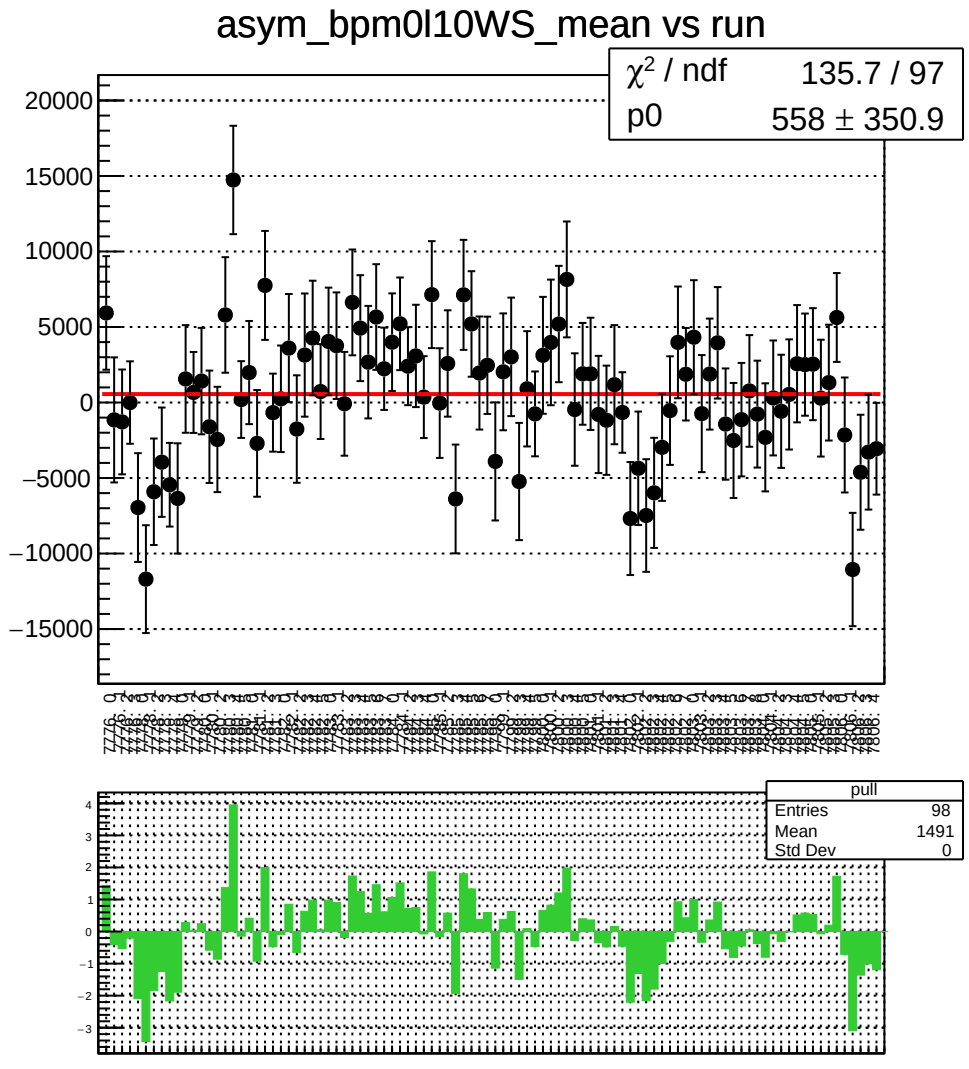
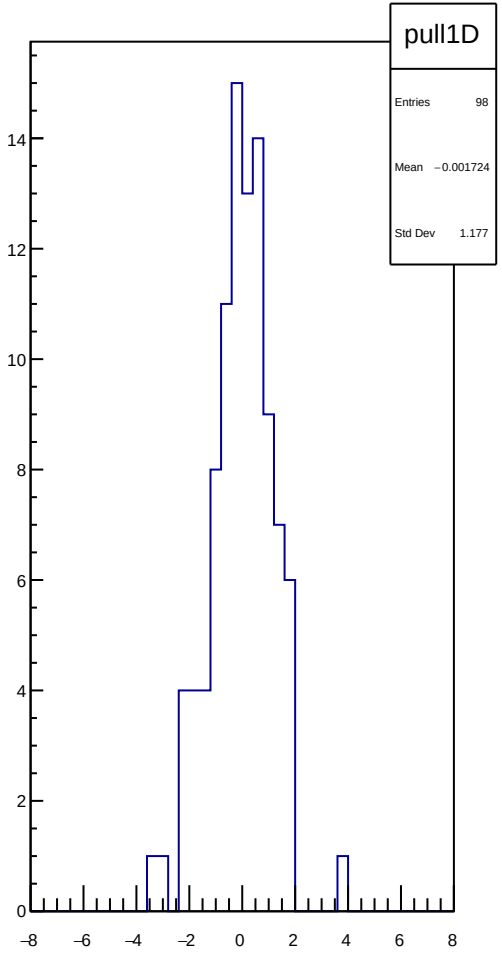
0
2
4
6
8

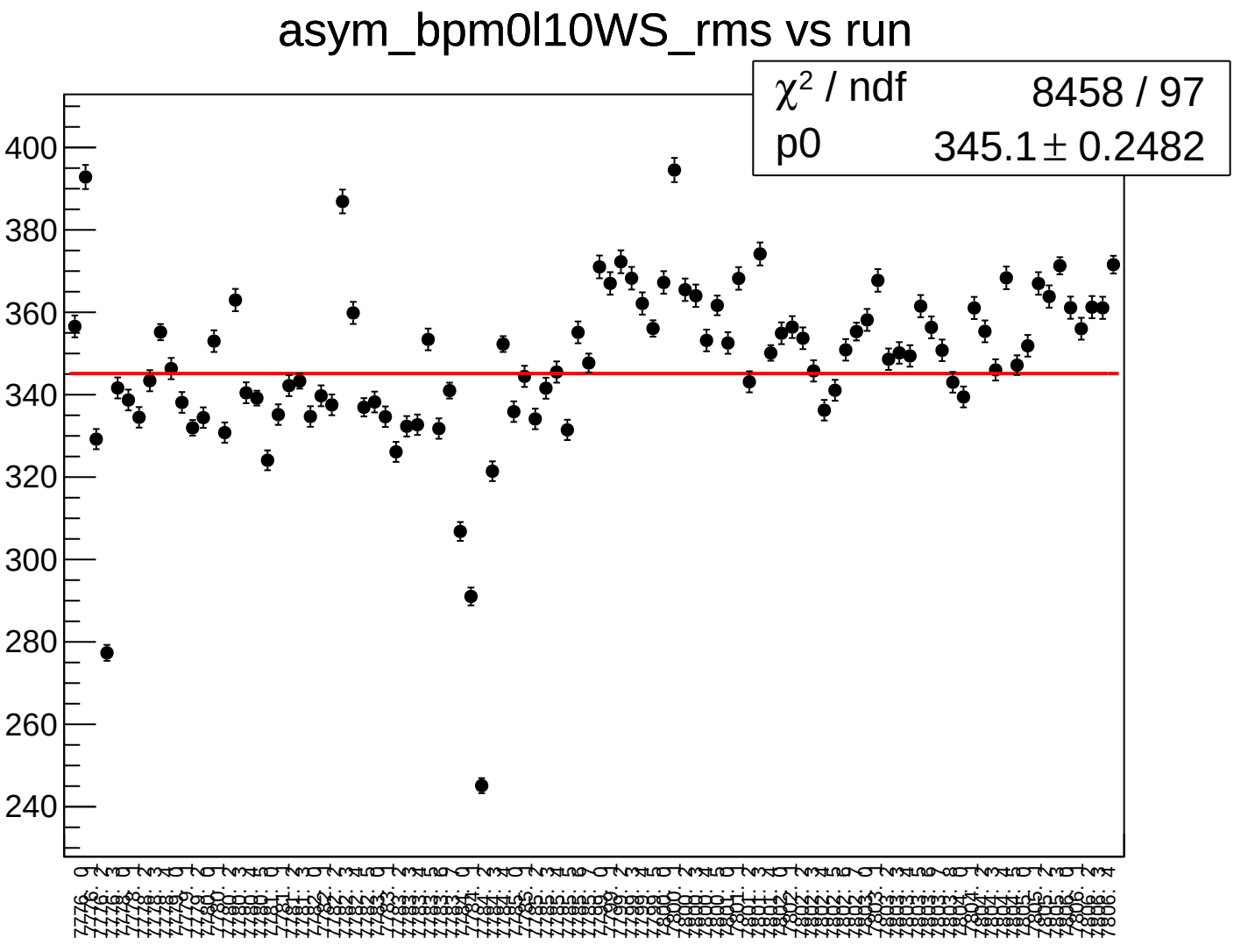

asym_bpm0l08WS_rms vs run
χ² / ndf 8286 / 97
p0 330.6 ± 0.2377
380
360
340
320
300
280
260
240
220

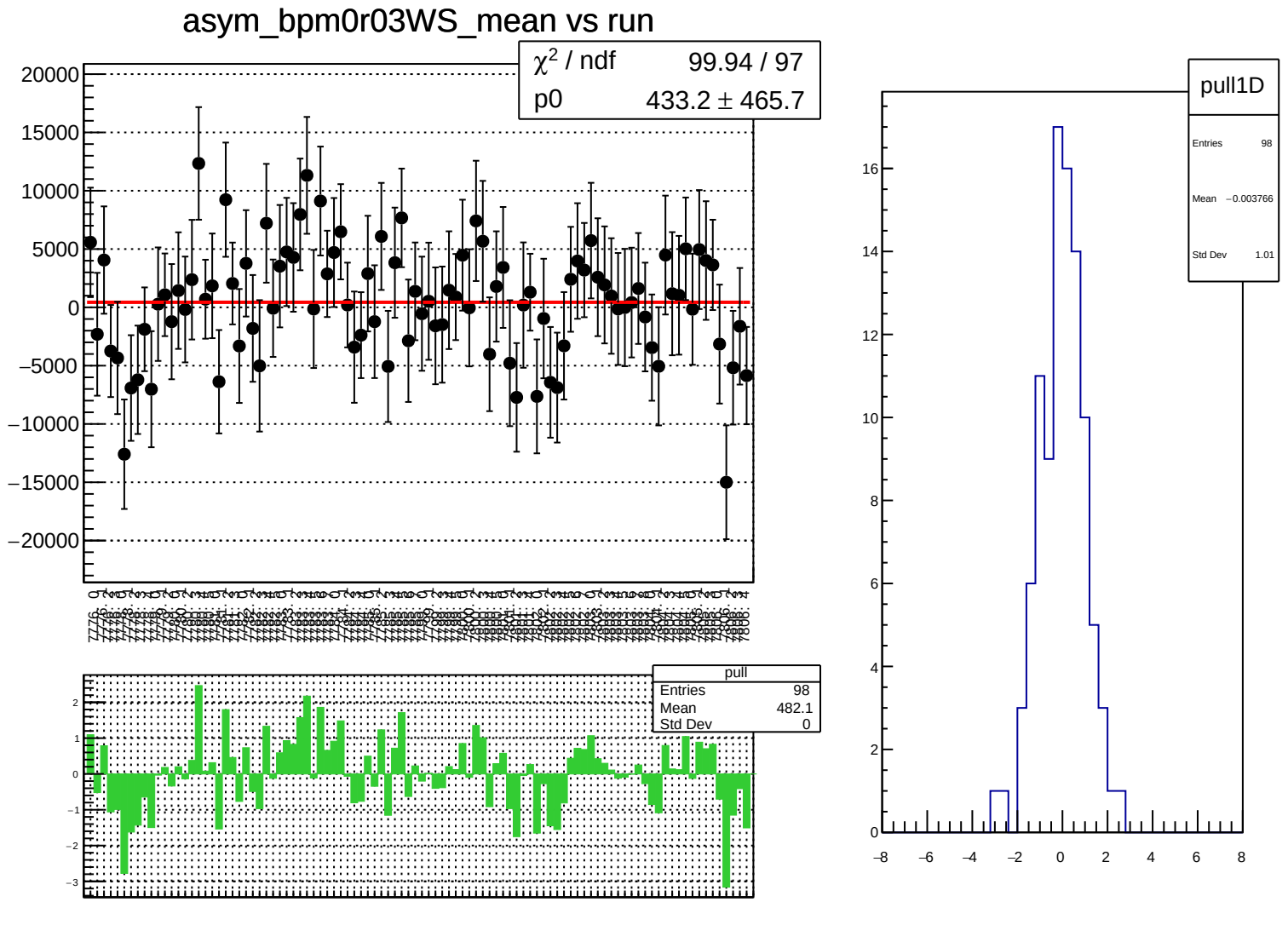

asym_bpm0l09WS_mean vs run
χ² / ndf 120.7 / 97
p0 419 ± 336.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 695.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean −0.005302
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

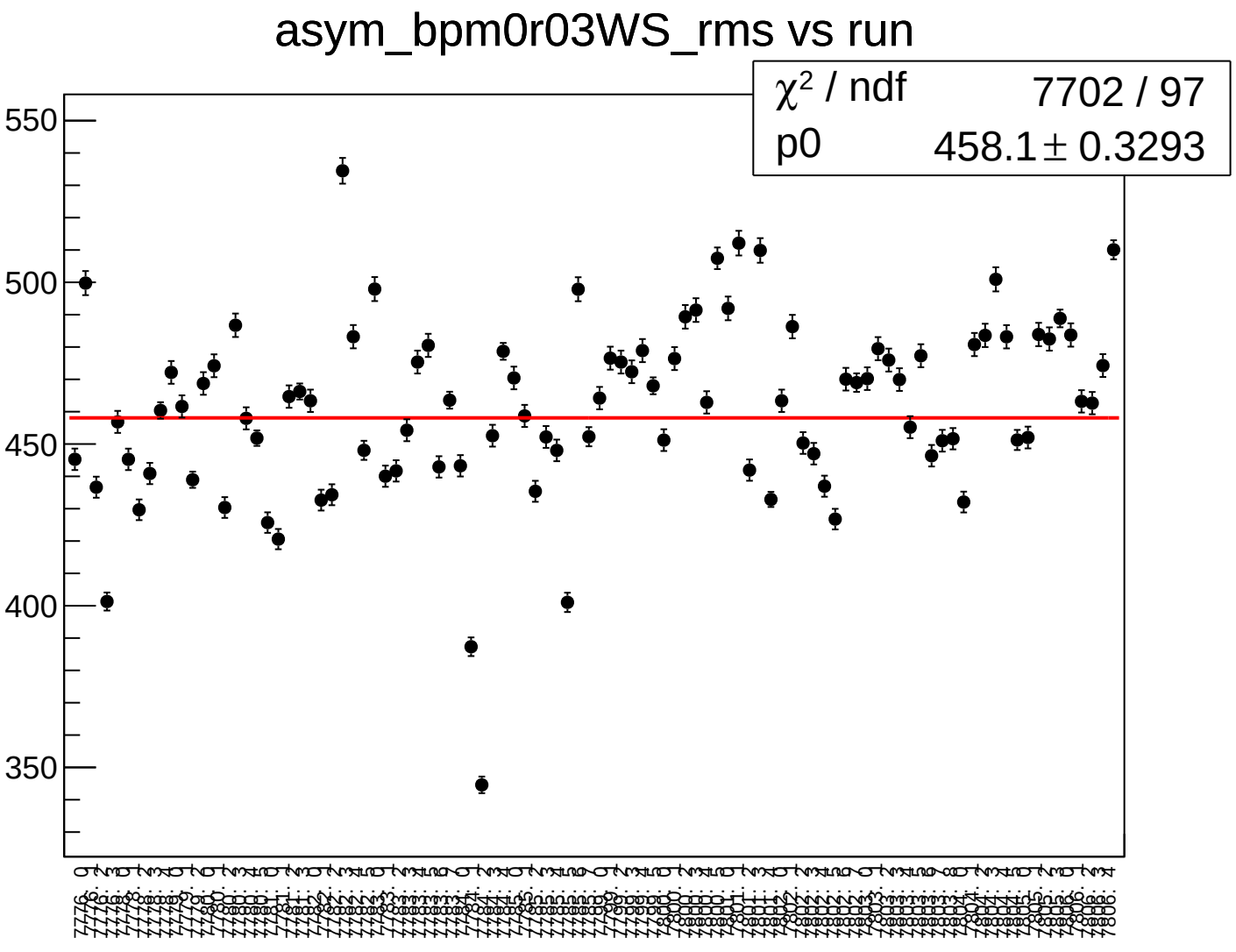

asym_bpm0l09WS_rms vs run
χ² / ndf 7616 / 97
p0 331.1 ± 0.238
380
360
340
320
300
280
260
240

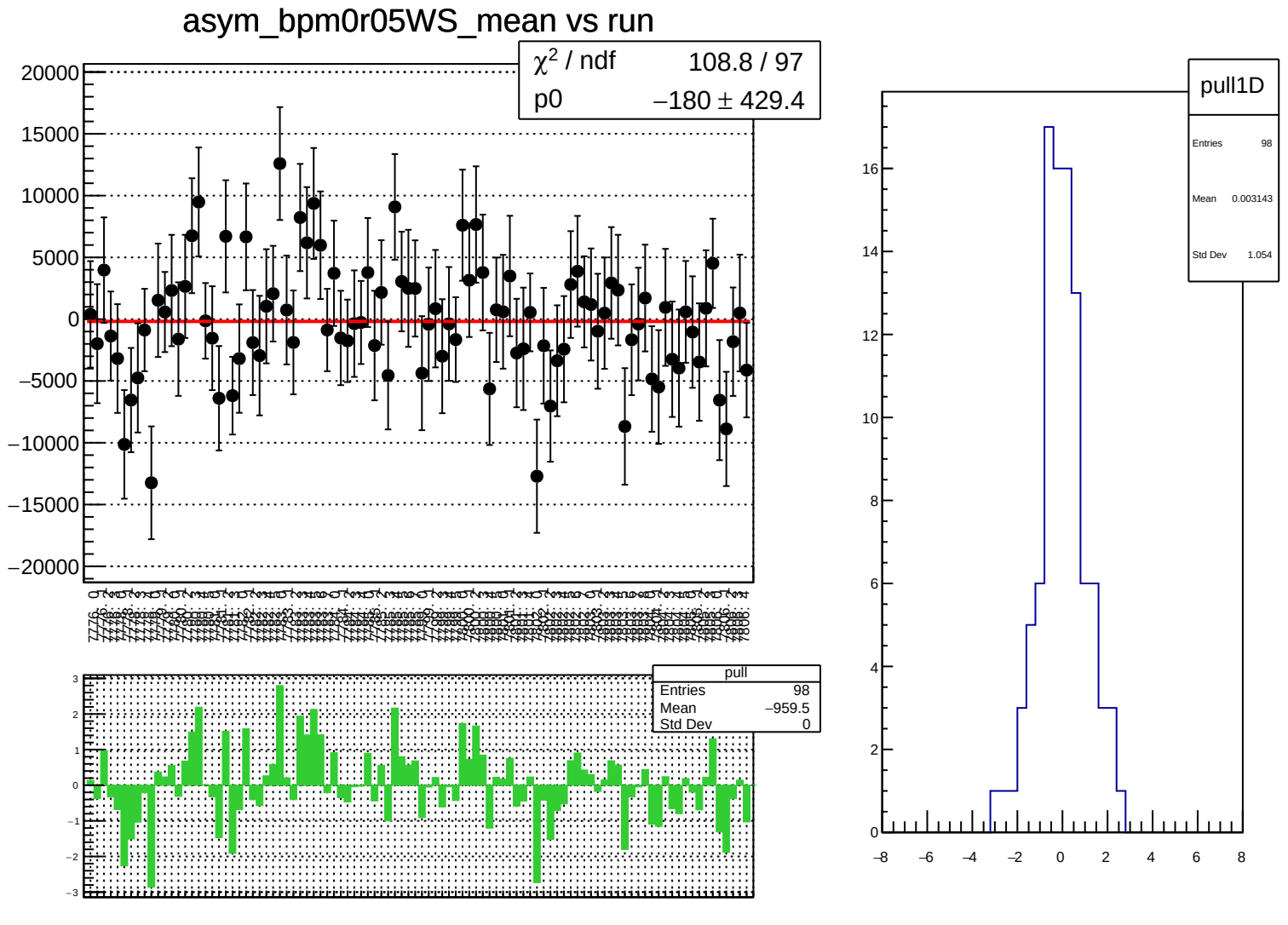

asym_bpm0l10WS_mean vs run
χ² / ndf 135.7 / 97
p0 558 ± 350.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 1491
Std Dev 0
4
3
2
1
0
−1
−2
−3

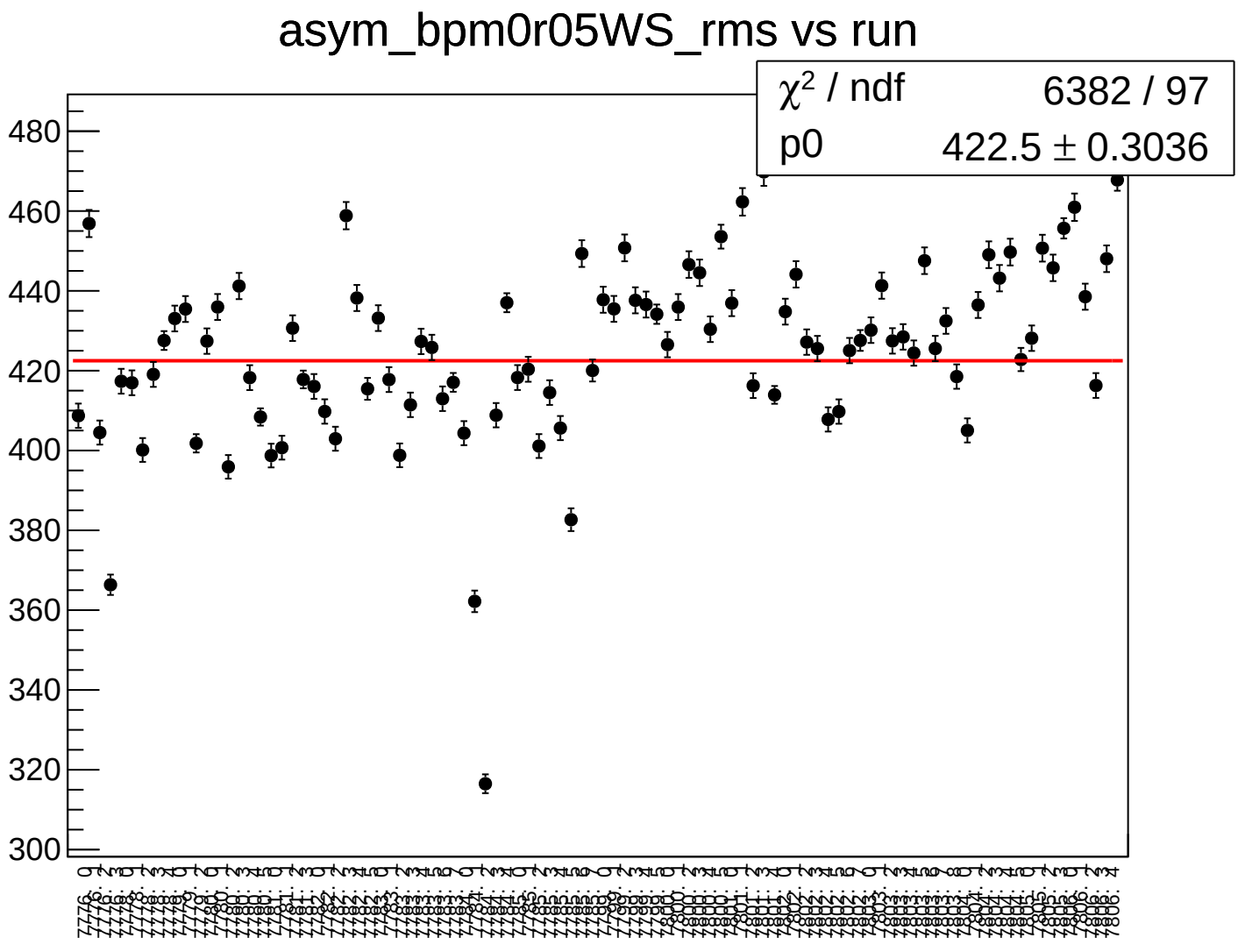

pull1D
Entries 98
Mean −0.001724
Std Dev 1.177
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

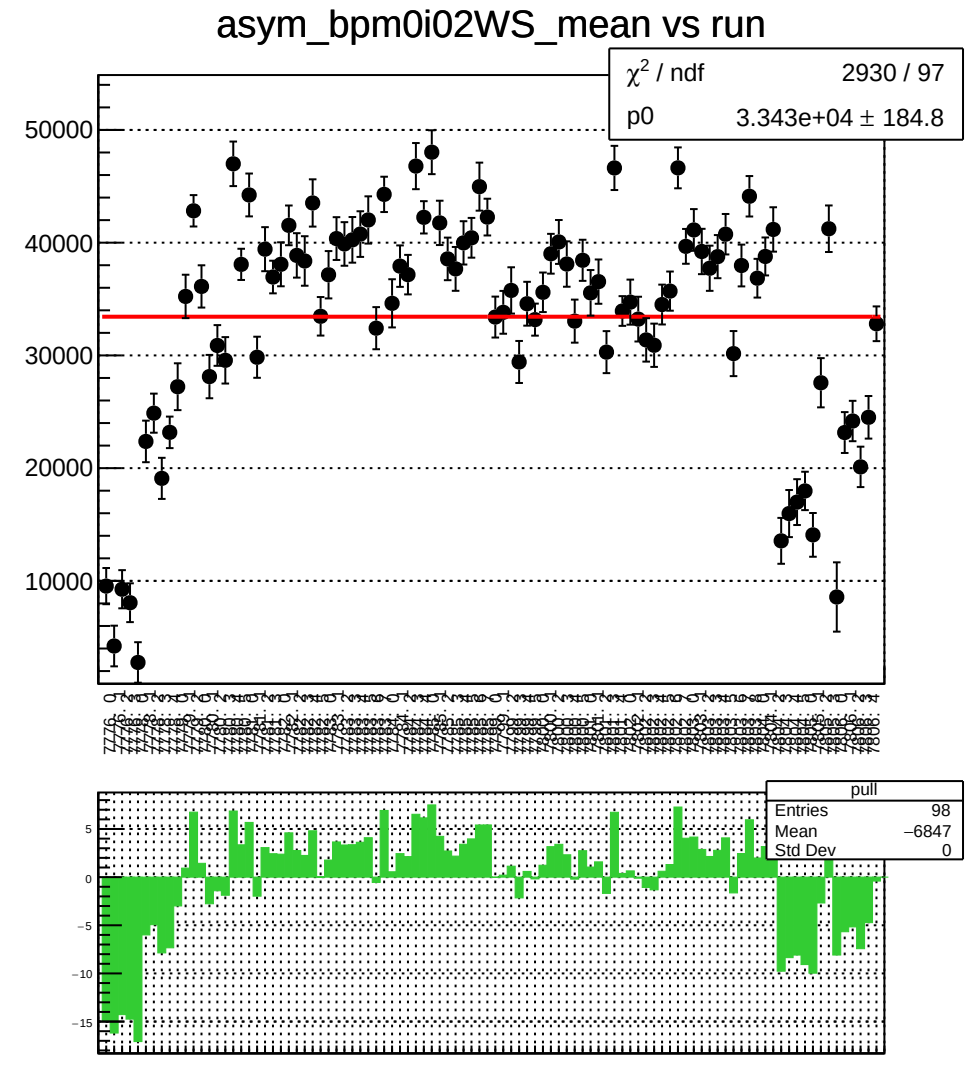

asym_bpm0l10WS_rms vs run
χ² / ndf 8458 / 97
p0 345.1 ± 0.2482
400
380
360
340
320
300
280
260
240

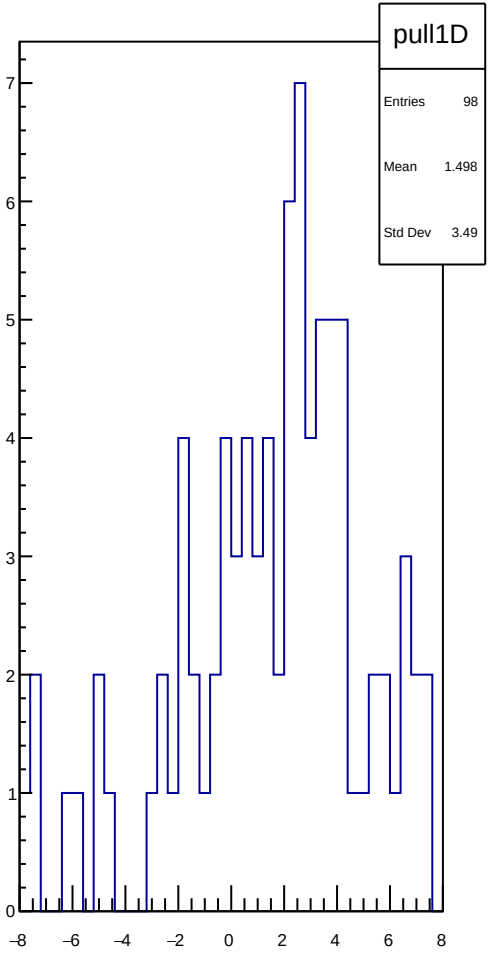

asym_bpm0r03WS_mean vs run
χ² / ndf 99.94 / 97
p0 433.2 ± 465.7
pull
Entries 98
Mean 482.1
Std Dev 0
pull1D
Entries 98
Mean −0.003766
Std Dev 1.01

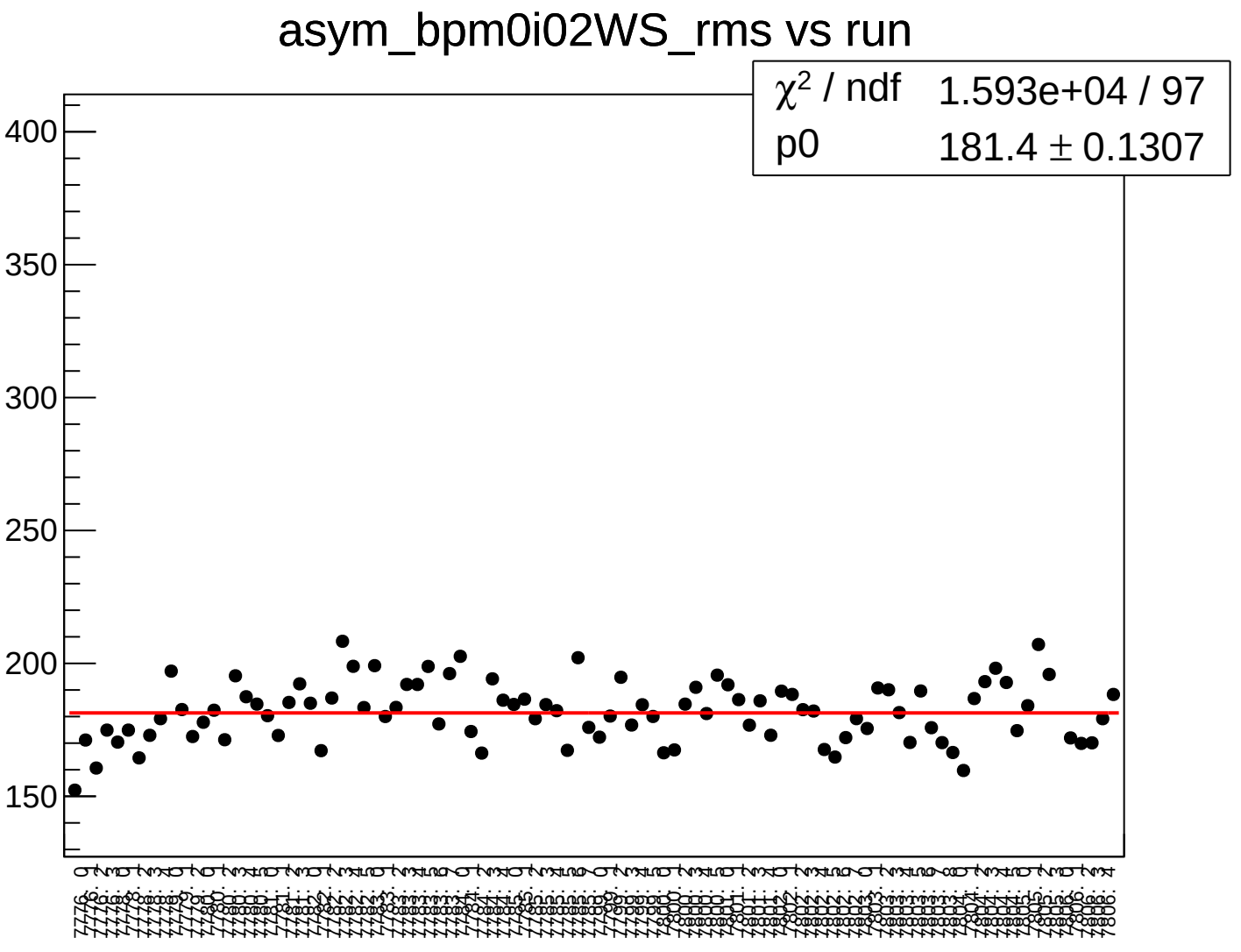

asym_bpm0r03WS_rms vs run
χ² / ndf 7702 / 97
p0 458.1 ± 0.3293
550
500
450
400
350

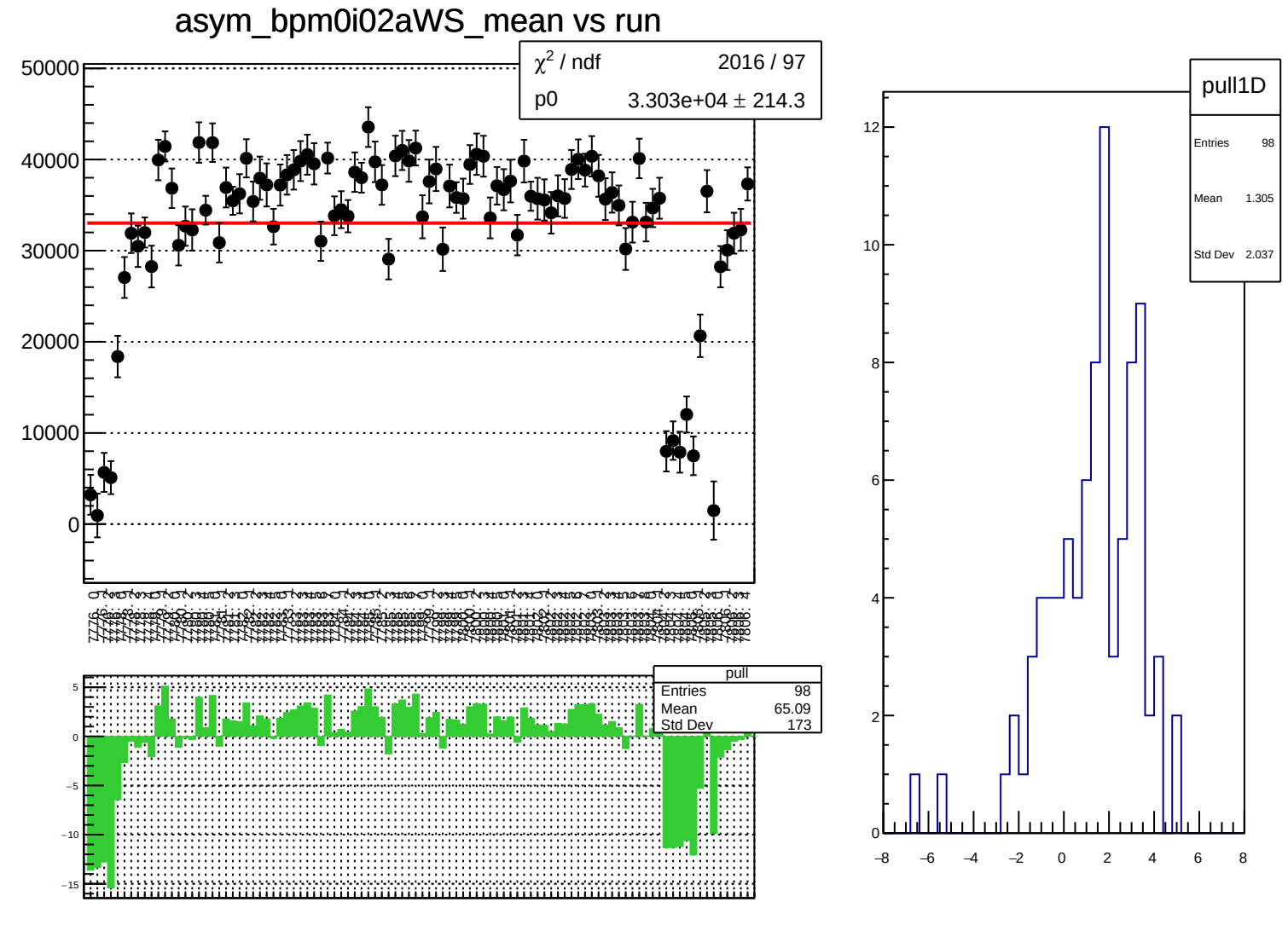

asym_bpm0r05WS_mean vs run
χ² / ndf 108.8 / 97
p0 −180 ± 429.4
pull
Entries 98
Mean −959.5
Std Dev 0
pull1D
Entries 98
Mean 0.003143
Std Dev 1.054

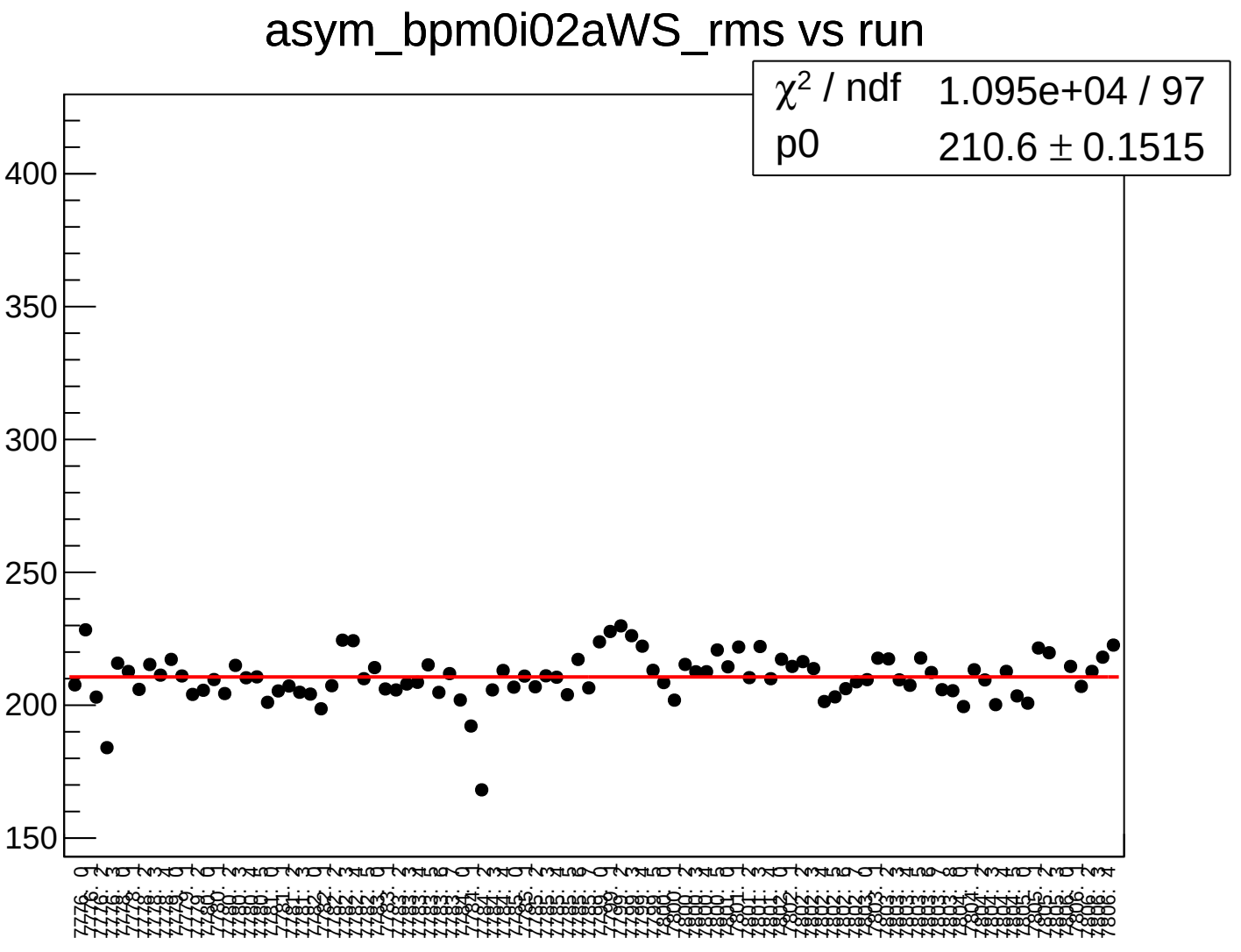

asym_bpm0r05WS_rms vs run
χ² / ndf 6382 / 97
p0 422.5 ± 0.3036
480
460
440
420
400
380
360
340
320
300

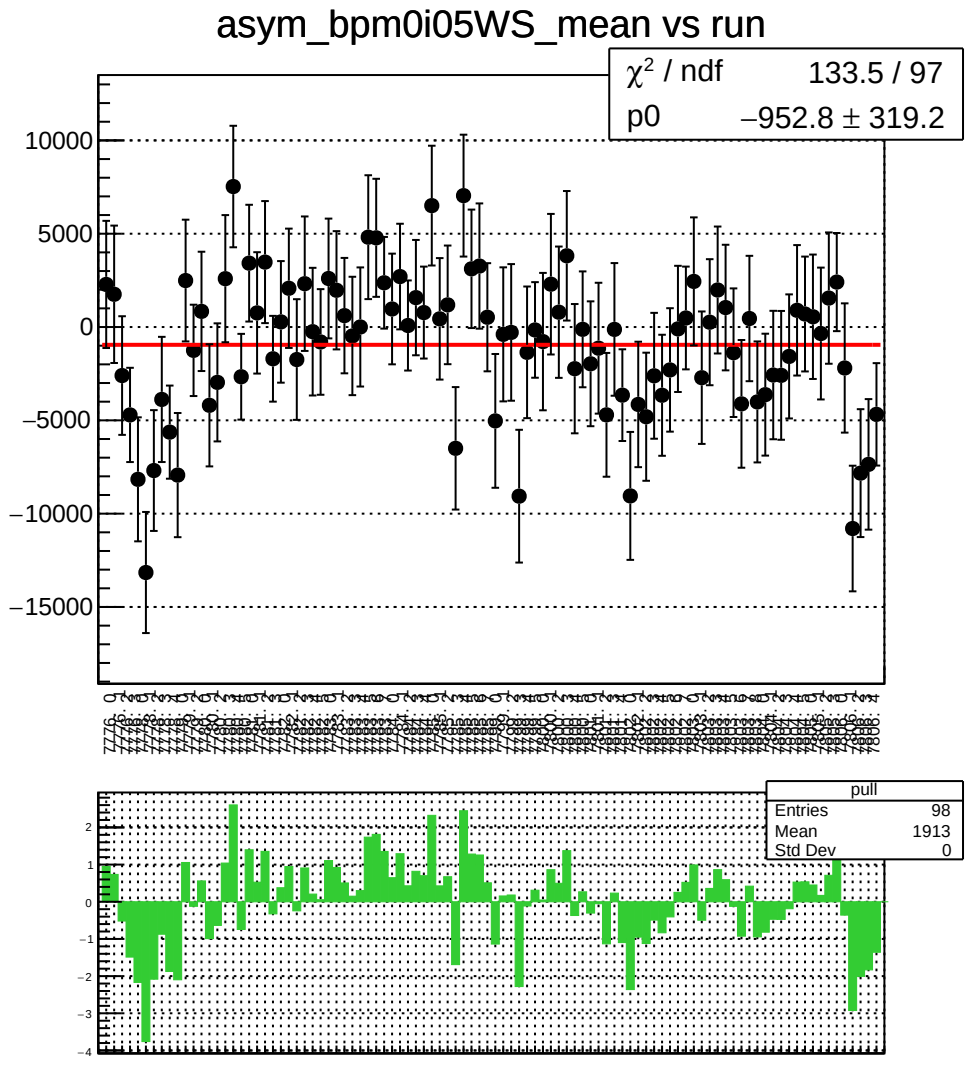

asym_bpm0i02WS_mean vs run
χ² / ndf 2930 / 97
p0 3.343e+04 ± 184.8
50000
40000
30000
20000
10000
pull
Entries 98
Mean −6847
Std Dev 0
5
0
−5
−10
−15

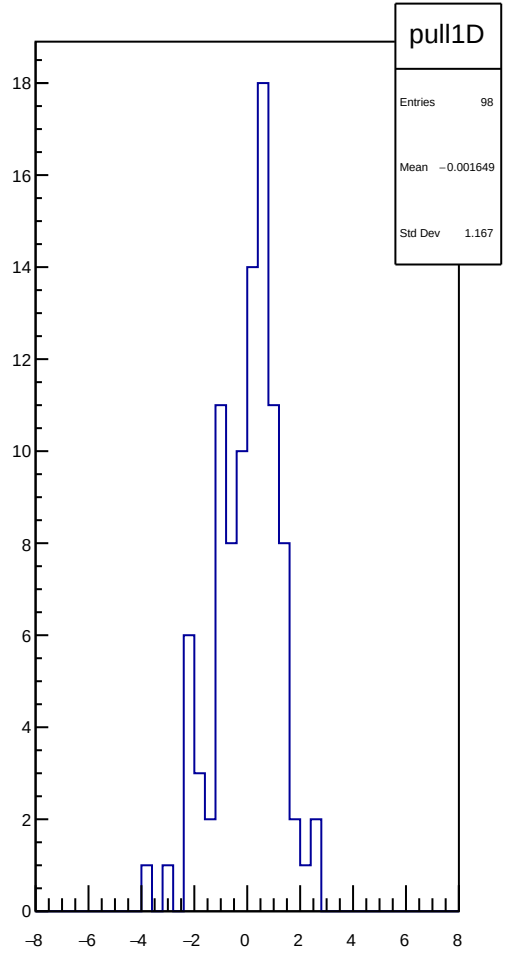

pull1D
Entries 98
Mean 1.498
Std Dev 3.49
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

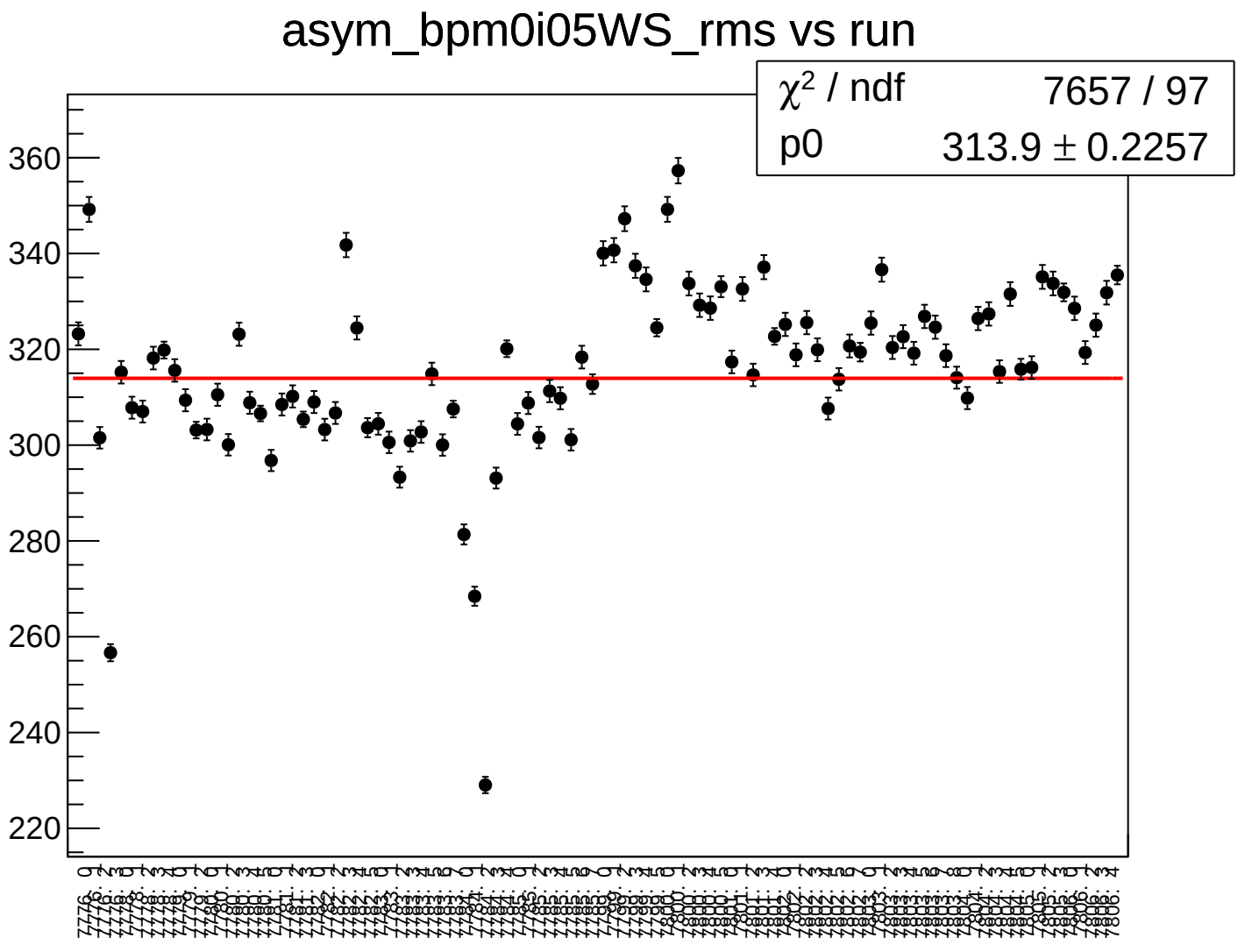

asym_bpm0i02WS_rms vs run
χ² / ndf 1.593e+04 / 97
p0 181.4 ± 0.1307
400
350
300
250
200
150

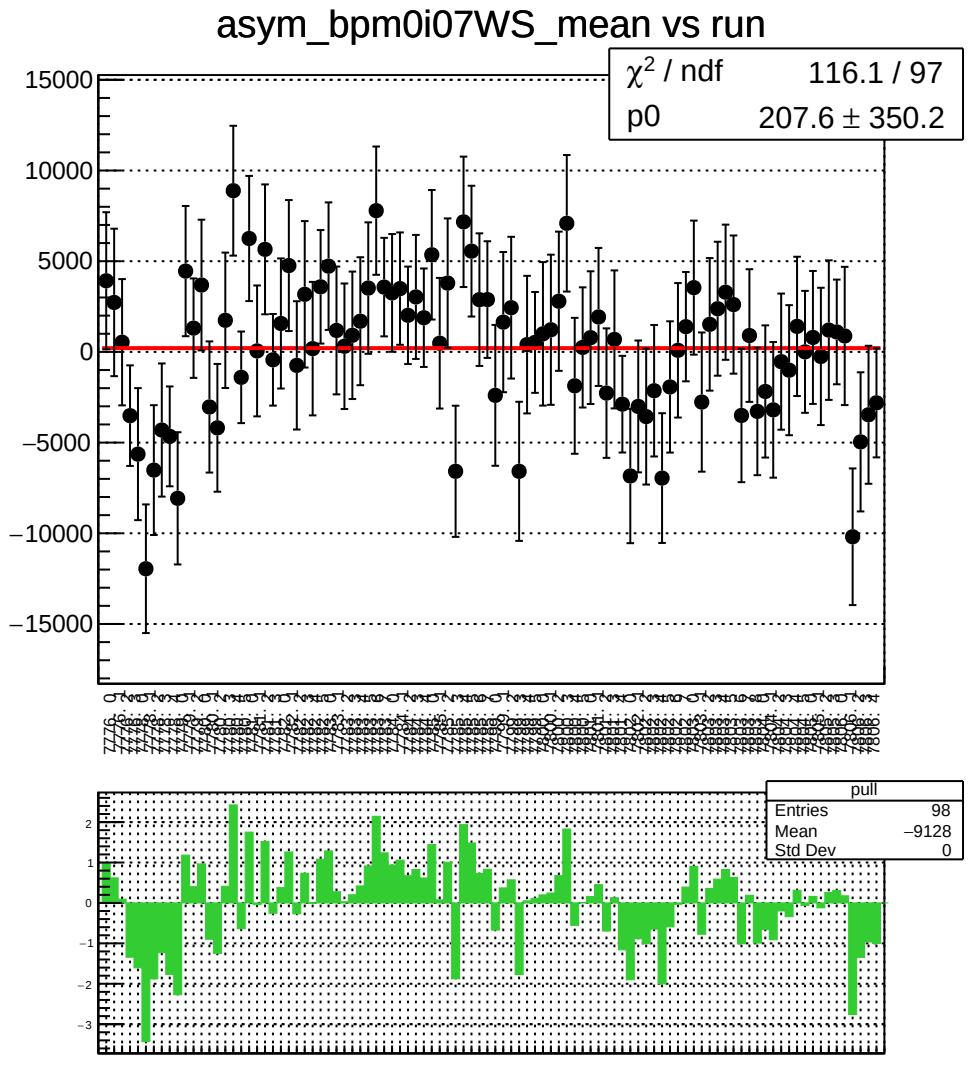

asym_bpm0i02aWS_mean vs run
χ² / ndf 2016 / 97
p0 3.303e+04 ± 214.3
50000
40000
30000
20000
10000
0
pull
Entries 98
Mean 65.09
Std Dev 173
5
0
−5
−10
−15
pull1D
Entries 98
Mean 1.305
Std Dev 2.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

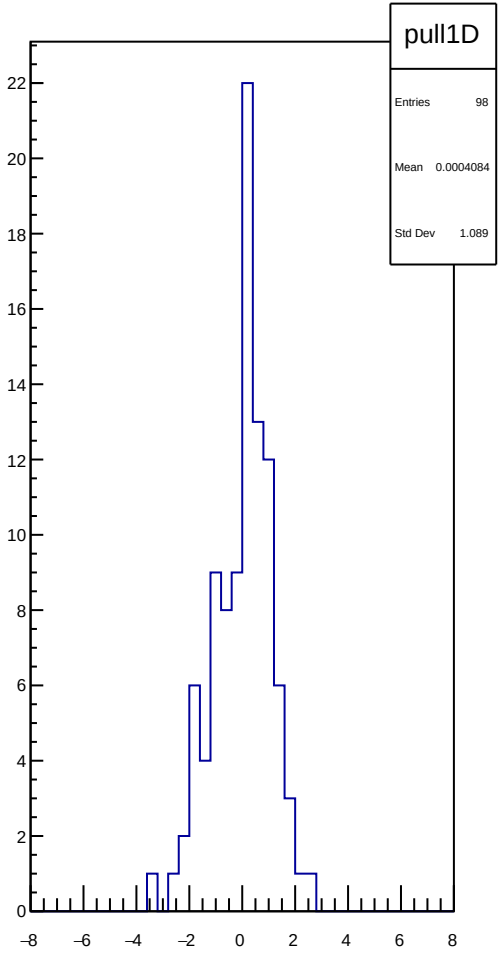

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.095e+04 / 97
p0 210.6 ± 0.1515
400
350
300
250
200
150

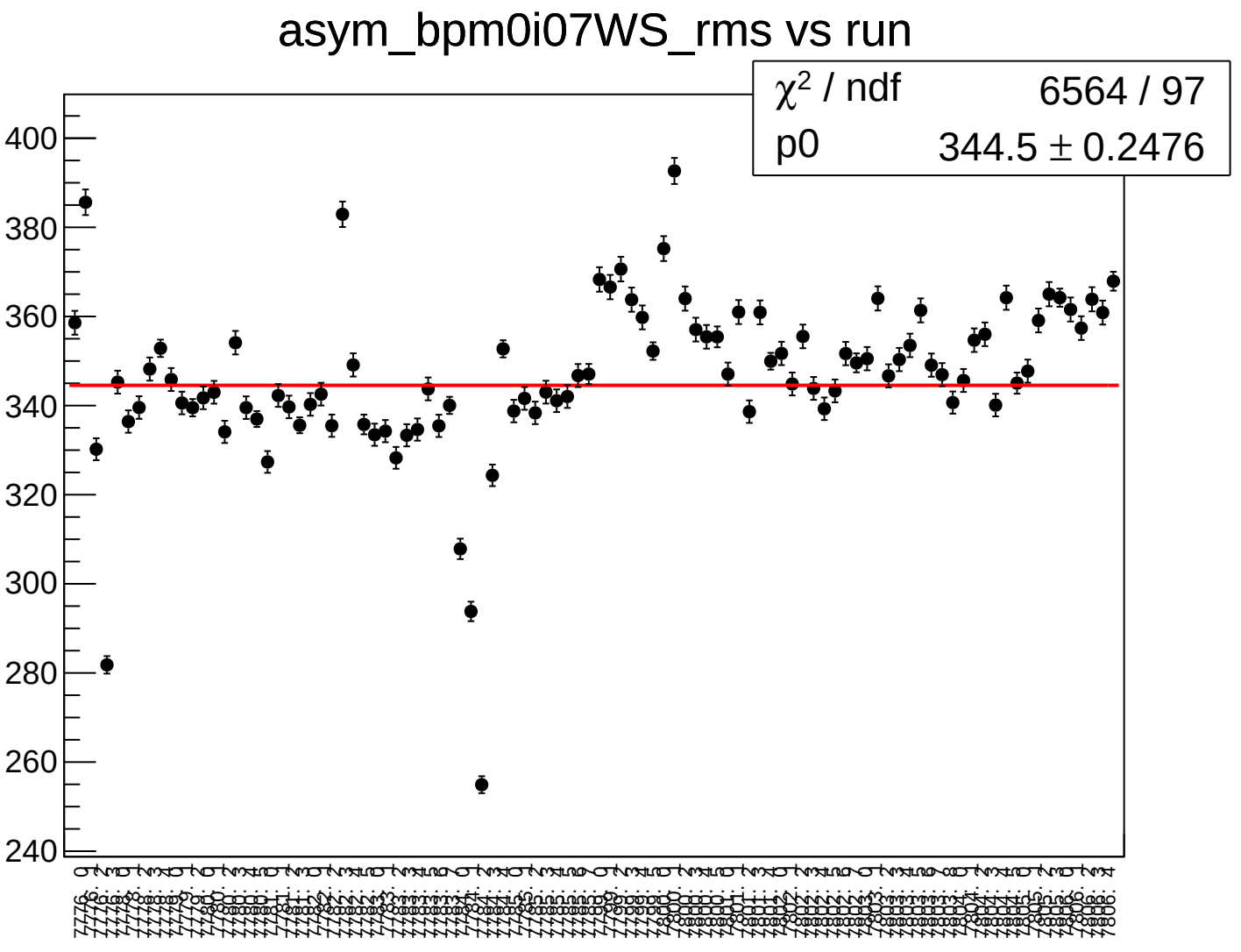

asym_bpm0i05WS_mean vs run
χ² / ndf 133.5 / 97
p0 −952.8 ± 319.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 1913
Std Dev 0
2
1
0
−1
−2
−3
−4

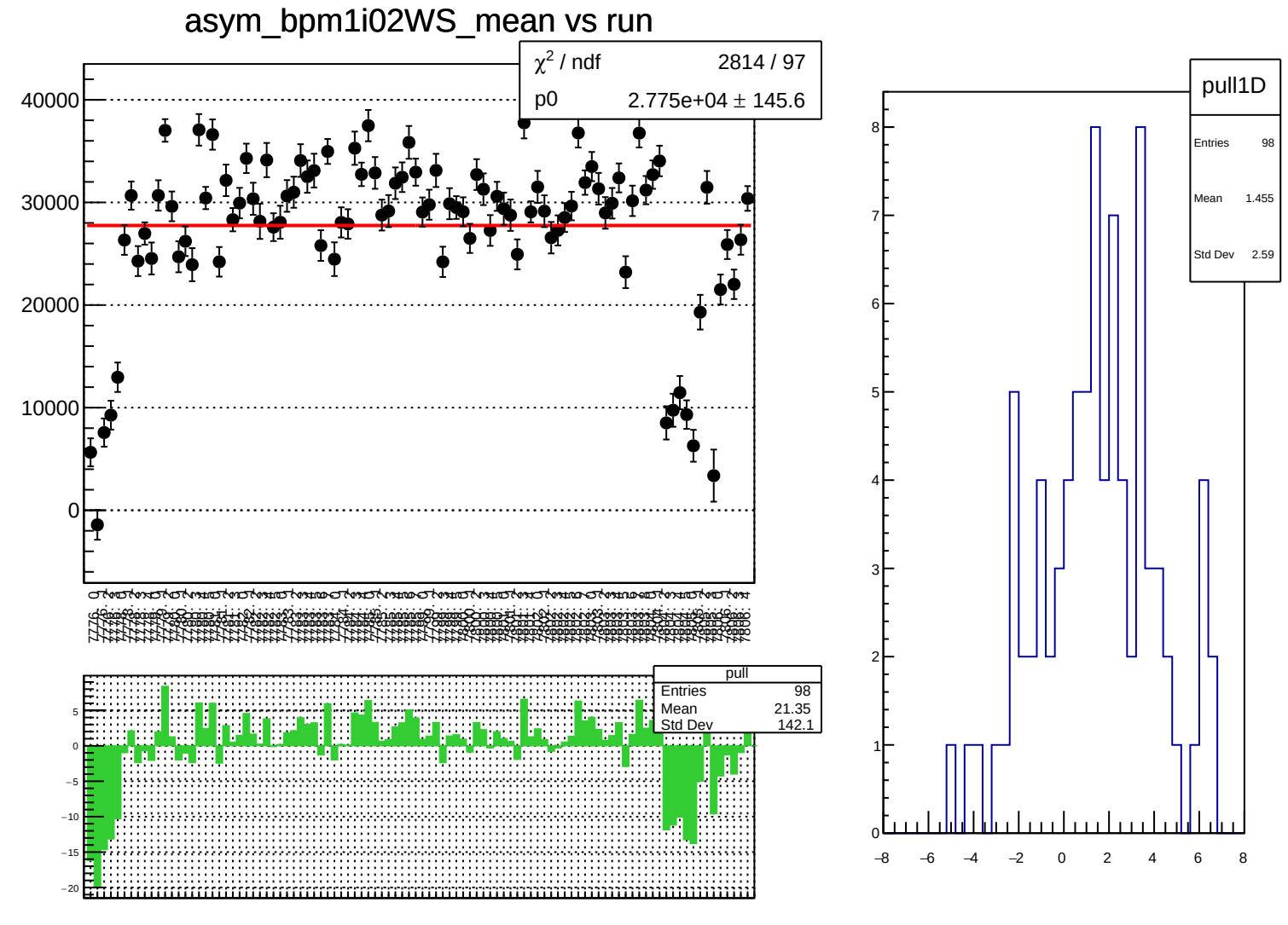

pull1D
Entries 98
Mean −0.001649
Std Dev 1.167
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

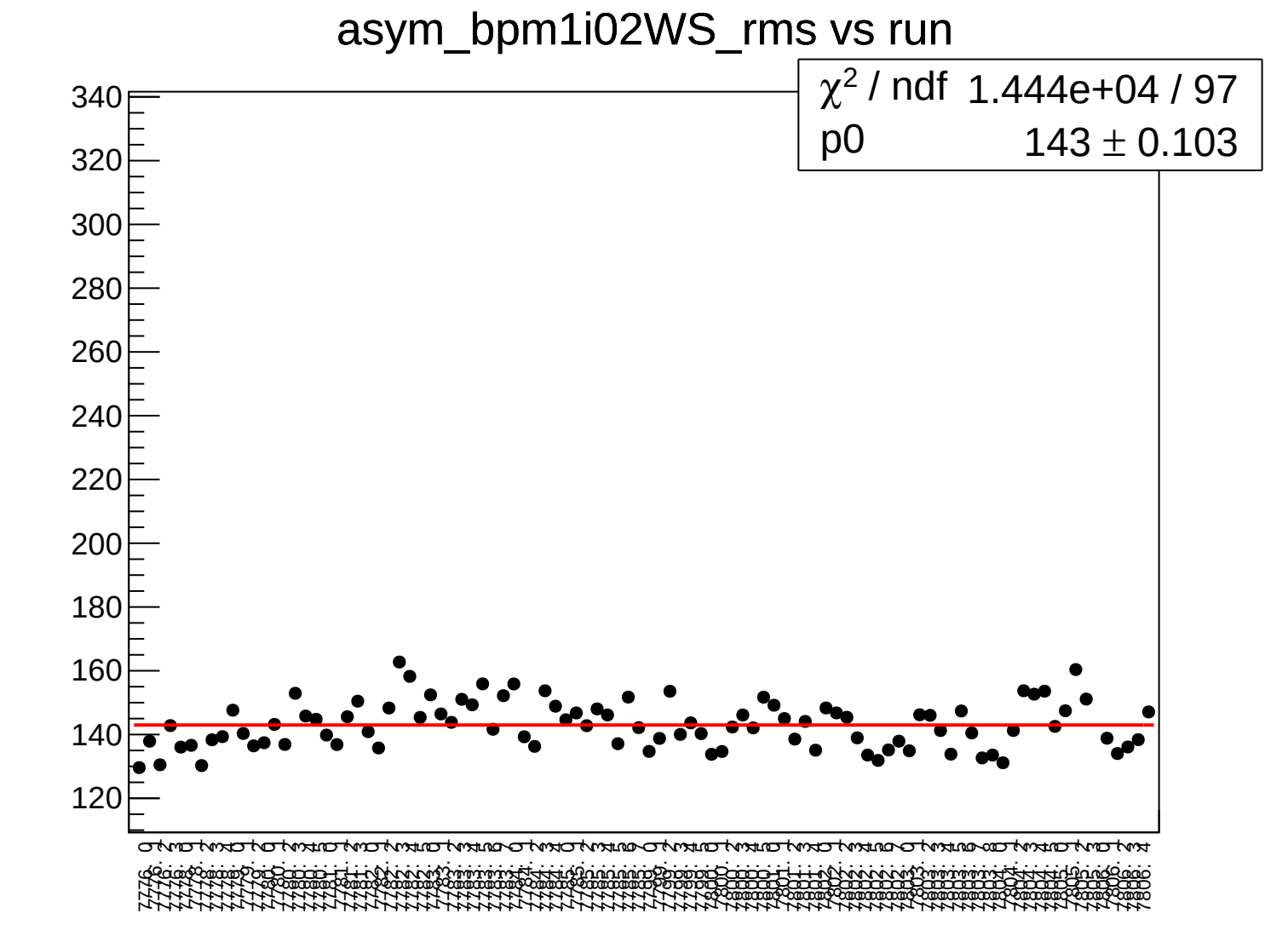

asym_bpm0i05WS_rms vs run
χ² / ndf 7657 / 97
p0 313.9 ± 0.2257
360
340
320
300
280
260
240
220

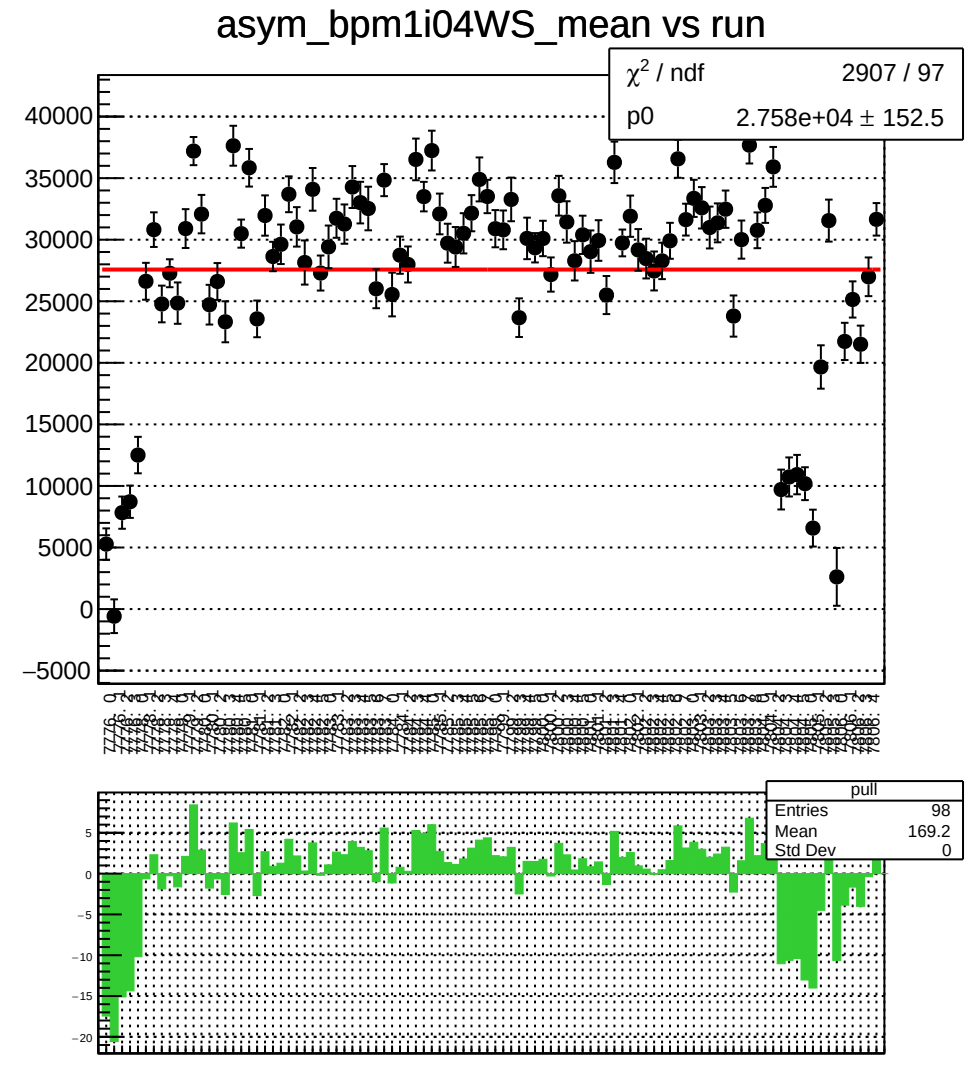

asym_bpm0i07WS_mean vs run
χ² / ndf 116.1 / 97
p0 207.6 ± 350.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean −9128
Std Dev 0
2
1
0
−1
−2
−3

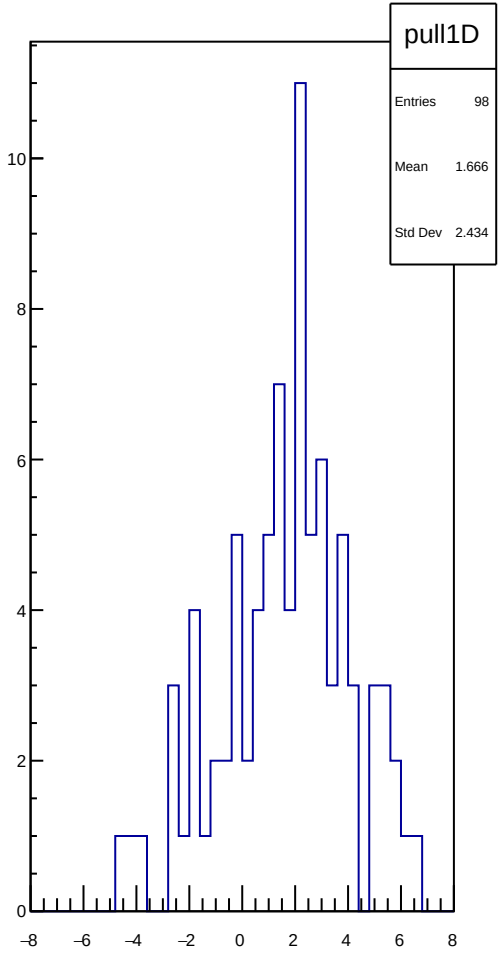

pull1D
Entries 98
Mean 0.0004084
Std Dev 1.089
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

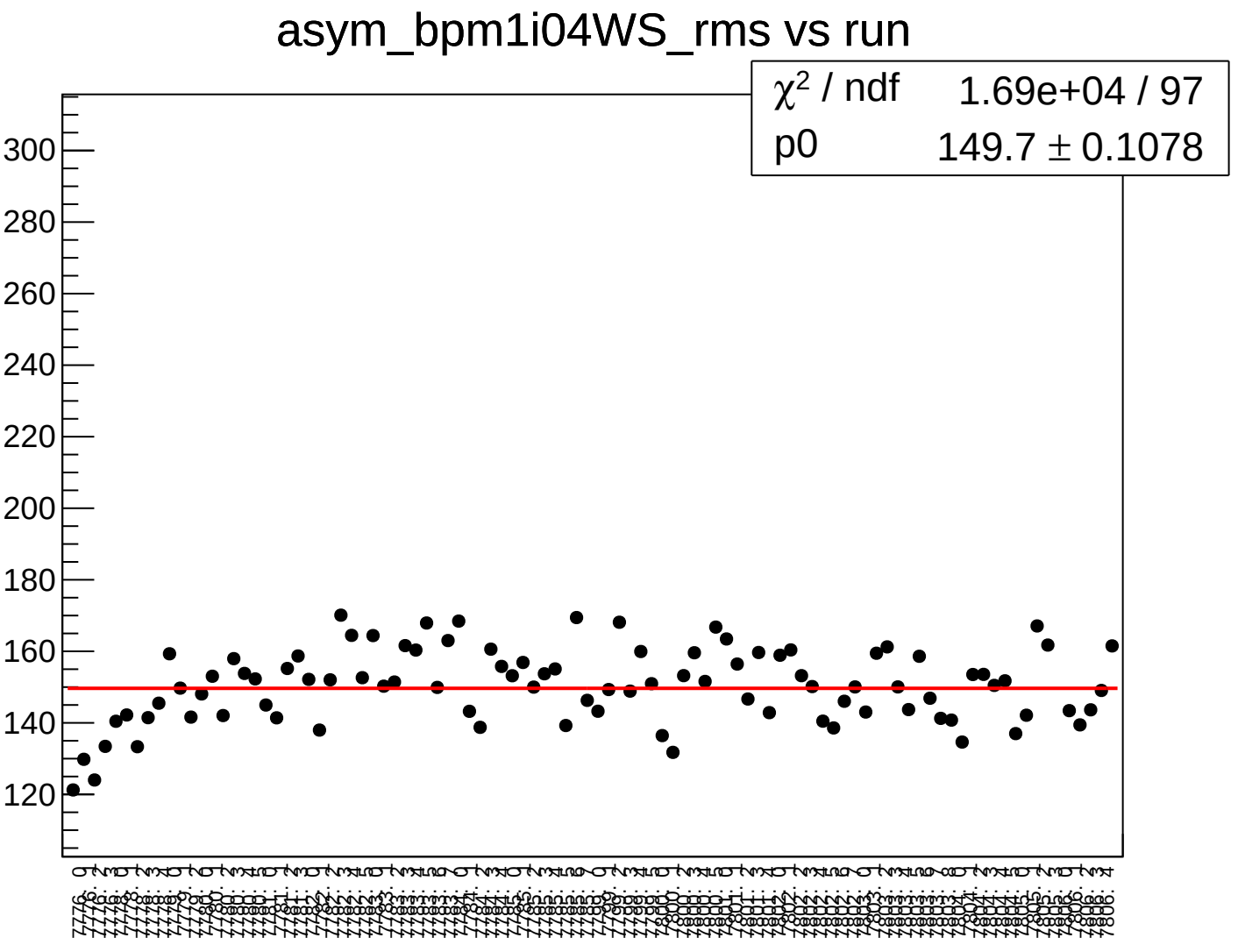

asym_bpm0i07WS_rms vs run
χ² / ndf 6564 / 97
p0 344.5 ± 0.2476
400
380
360
340
320
300
280
260
240

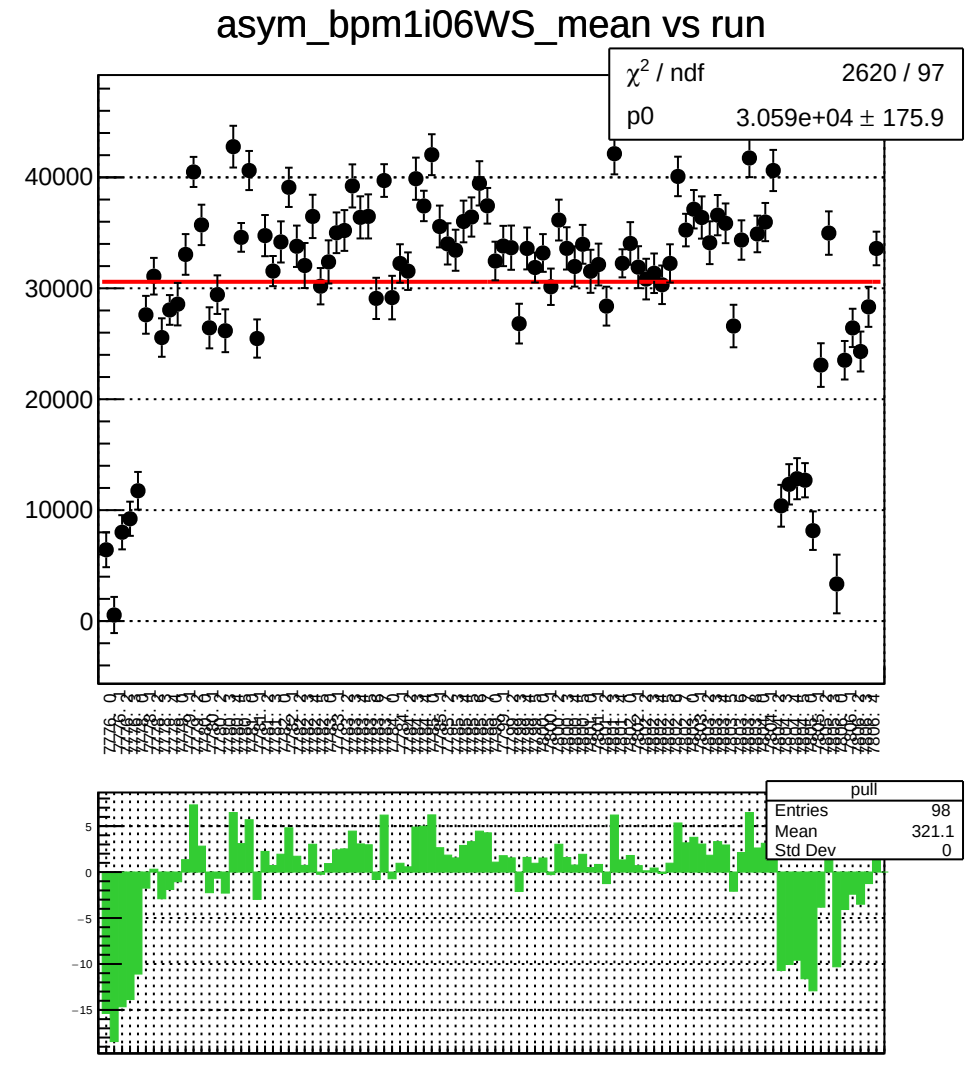

asym_bpm1i02WS_mean vs run
χ² / ndf 2814 / 97
p0 2.775e+04 ± 145.6
40000
30000
20000
10000
0
pull
Entries 98
Mean 21.35
Std Dev 142.1
5
0
−5
−10
−15
−20
pull1D
Entries 98
Mean 1.455
Std Dev 2.59
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

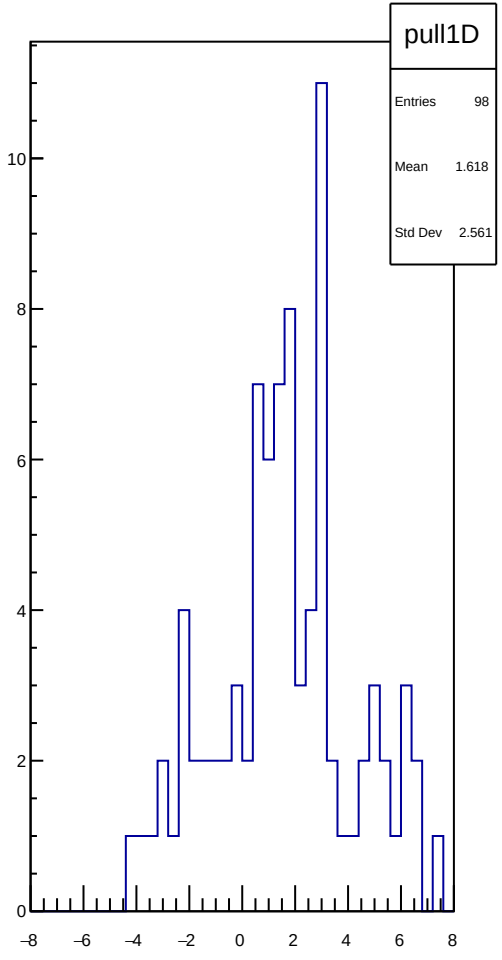

asym_bpm1i02WS_rms vs run
χ^2 / ndf 1.444e+04 / 97
p0 143 ± 0.103
340
320
300
280
260
240
220
200
180
160
140
120

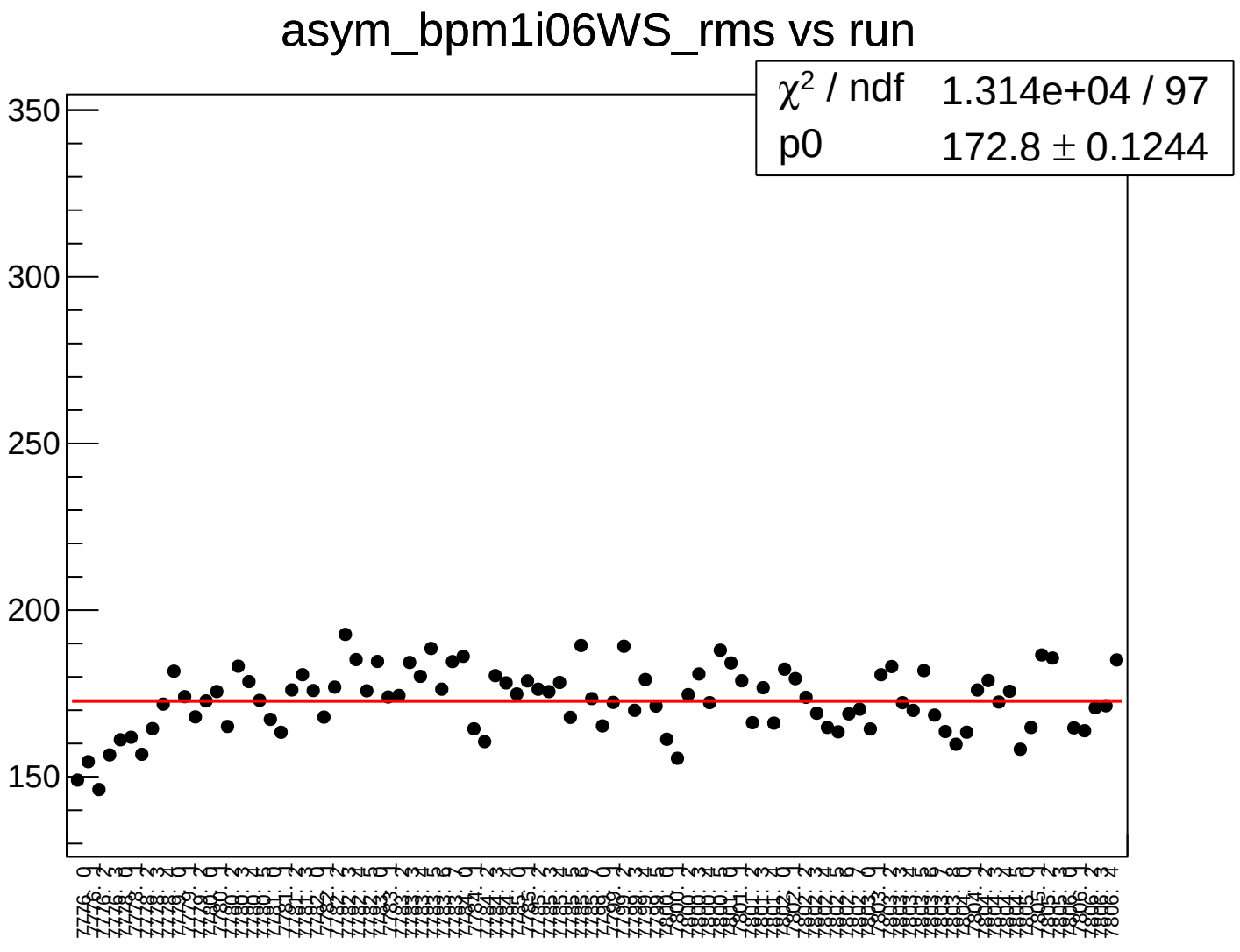

asym_bpm1i04WS_mean vs run
χ² / ndf 2907 / 97
p0 2.758e+04 ± 152.5
pull
Entries 98
Mean 169.2
Std Dev 0

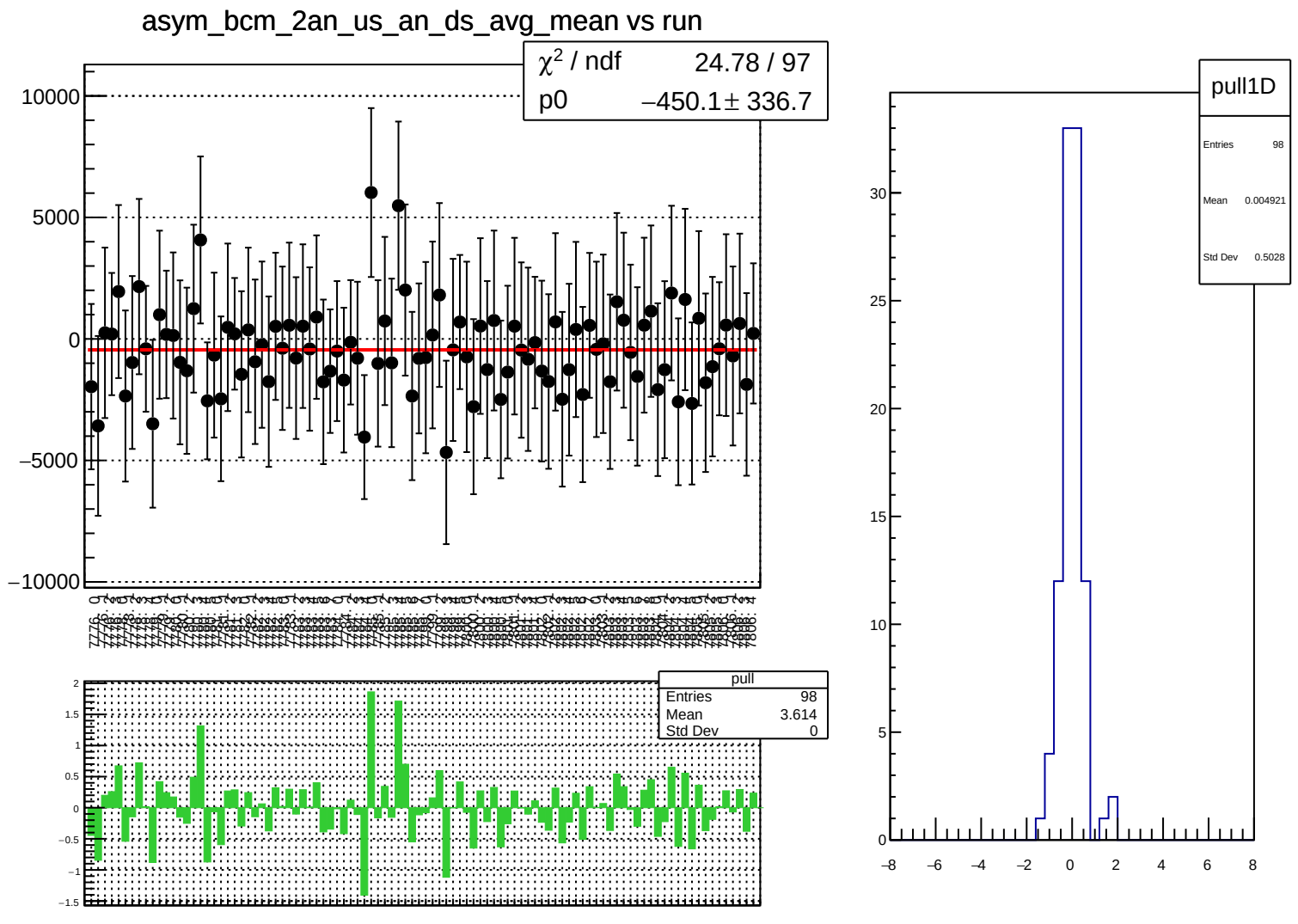

pull1D
Entries 98
Mean 1.666
Std Dev 2.434

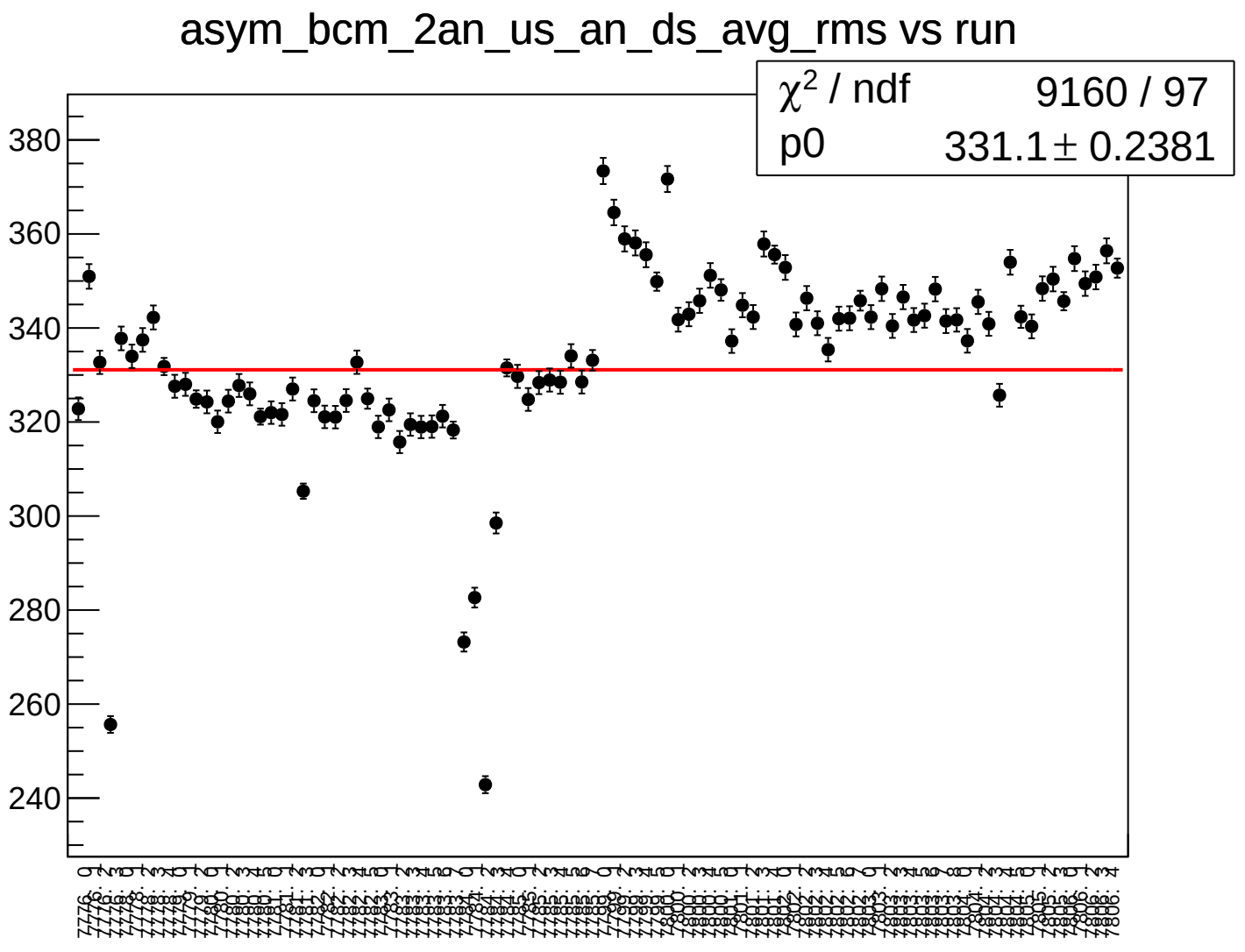

asym_bpm1i04WS_rms vs run
χ² / ndf 1.69e+04 / 97
p0 149.7 ± 0.1078
300
280
260
240
220
200
180
160
140
120

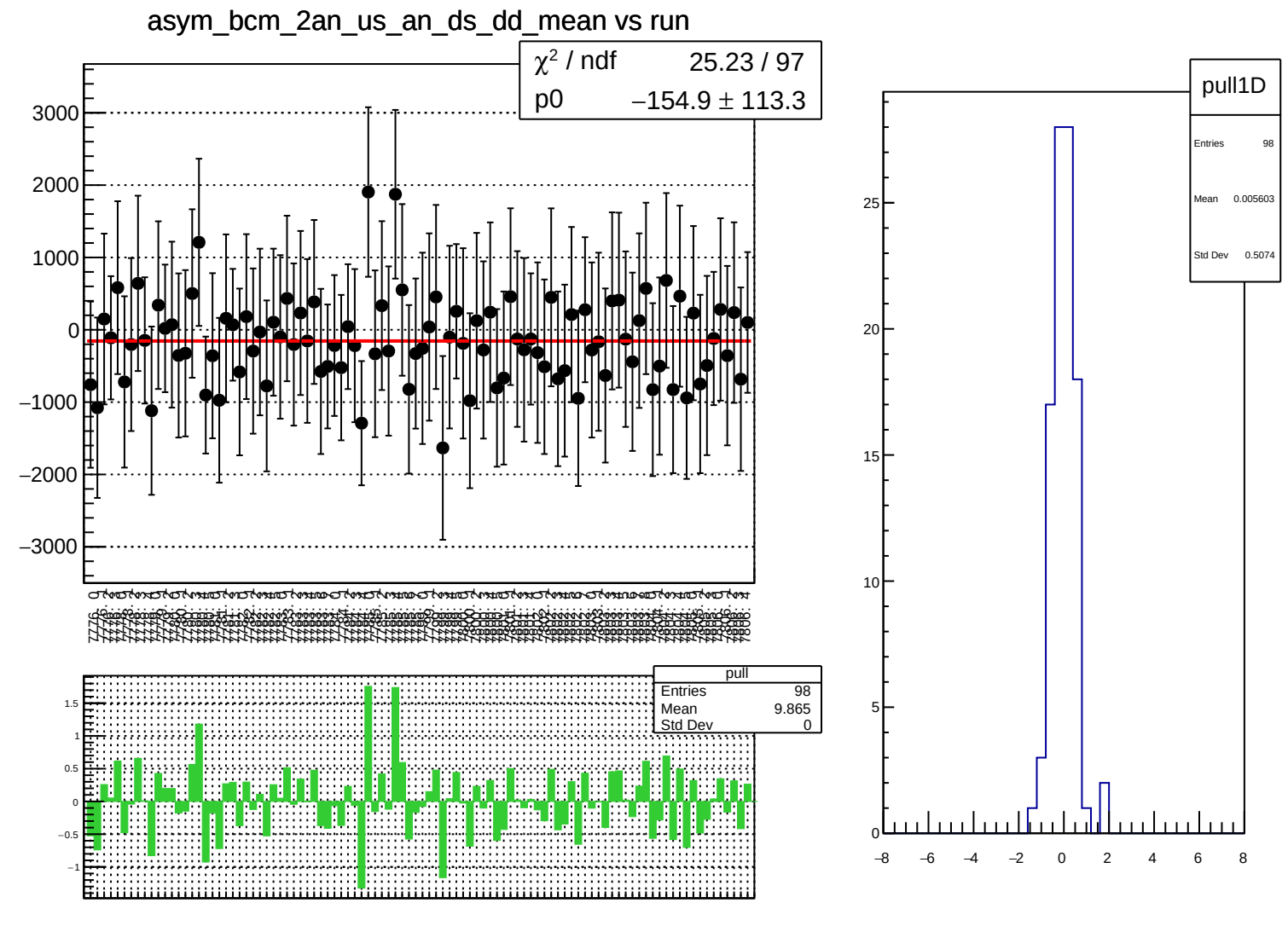

asym_bpm1i06WS_mean vs run
χ² / ndf 2620 / 97
p0 3.059e+04 ± 175.9
40000
30000
20000
10000
0
pull
Entries 98
Mean 321.1
Std Dev 0
5
0
−5
−10
−15

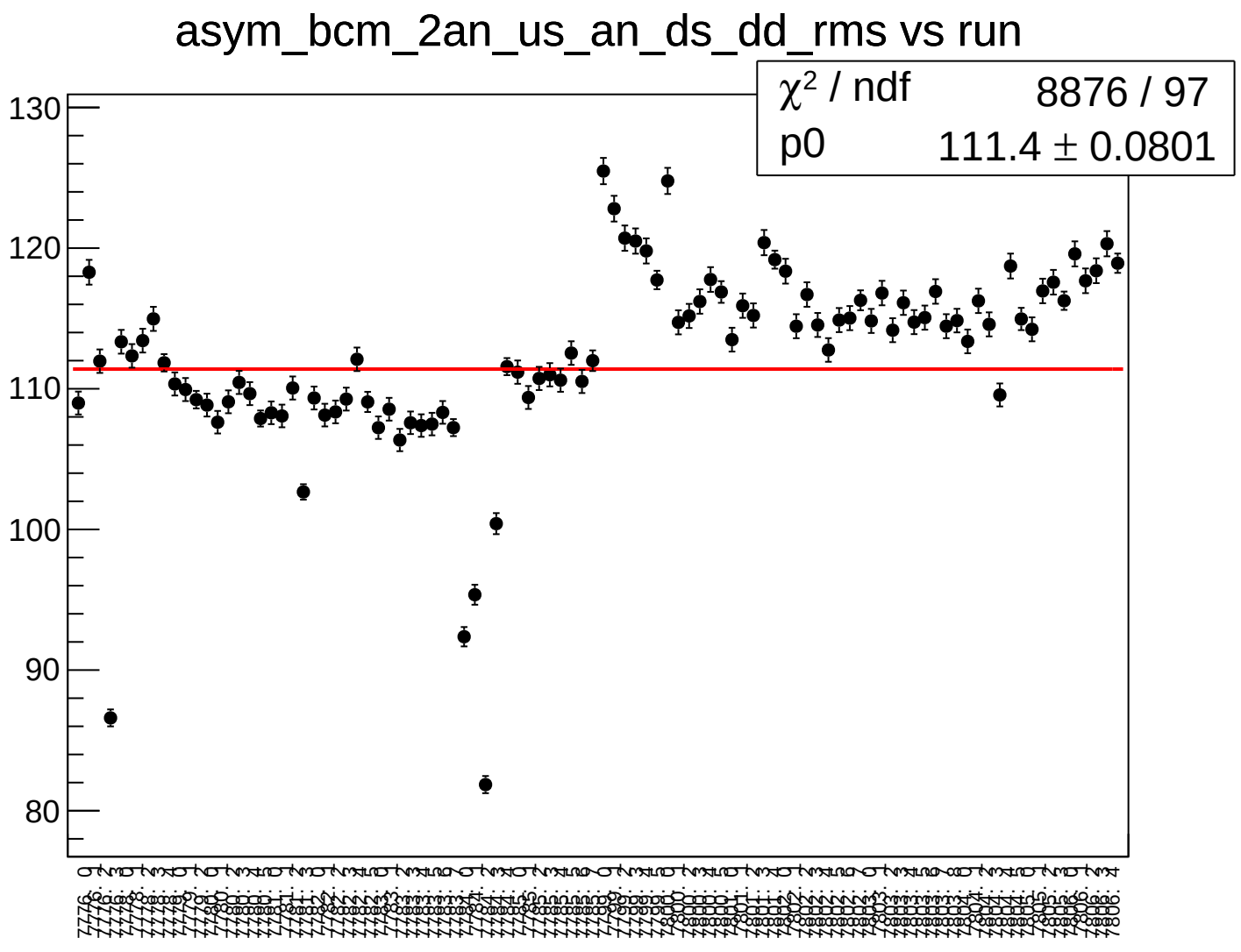

pull1D
Entries 98
Mean 1.618
Std Dev 2.561
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

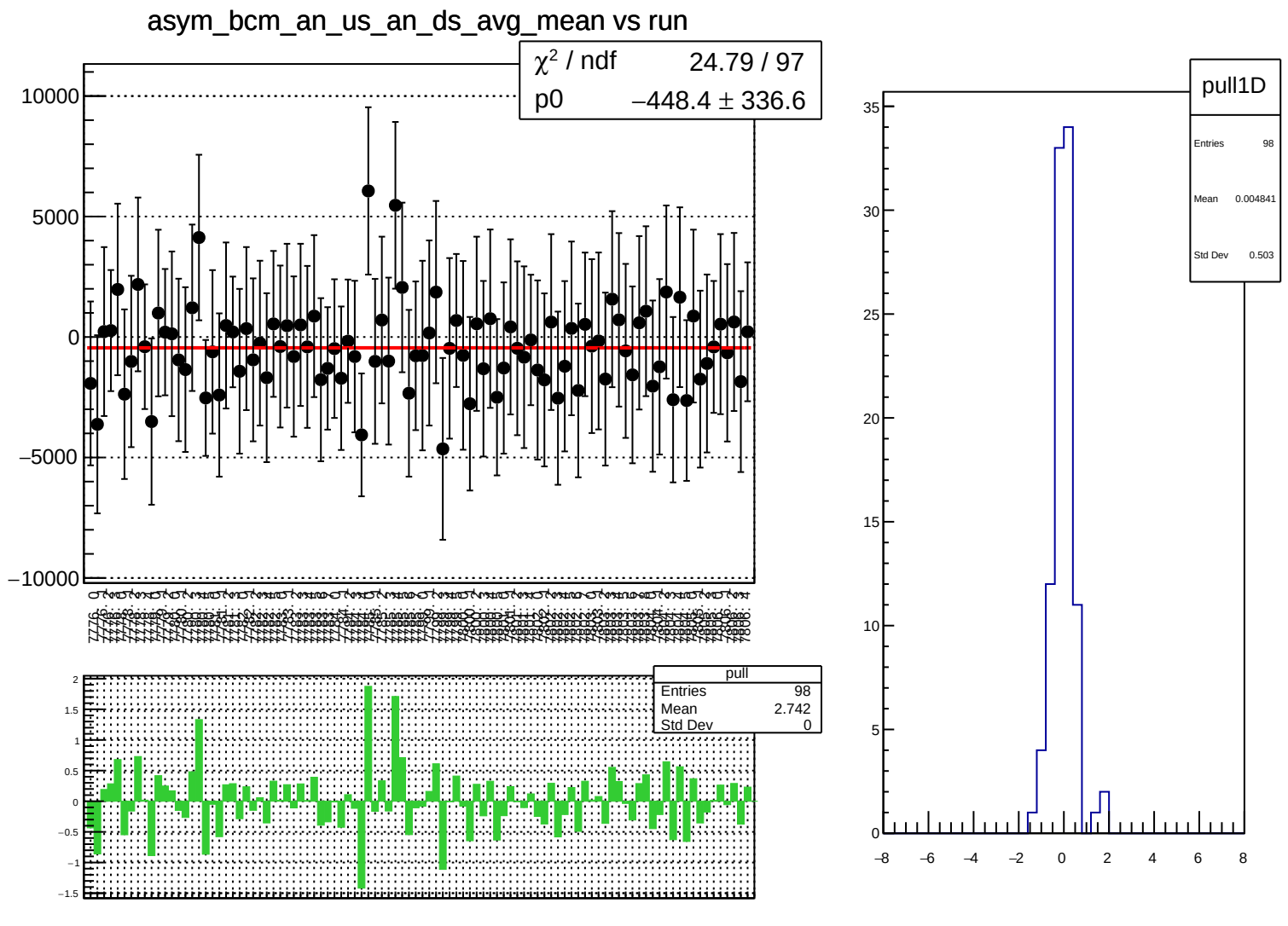

asym_bpm1i06WS_rms vs run
χ^2 / ndf 1.314e+04 / 97
p0 172.8 ± 0.1244
350
300
250
200
150

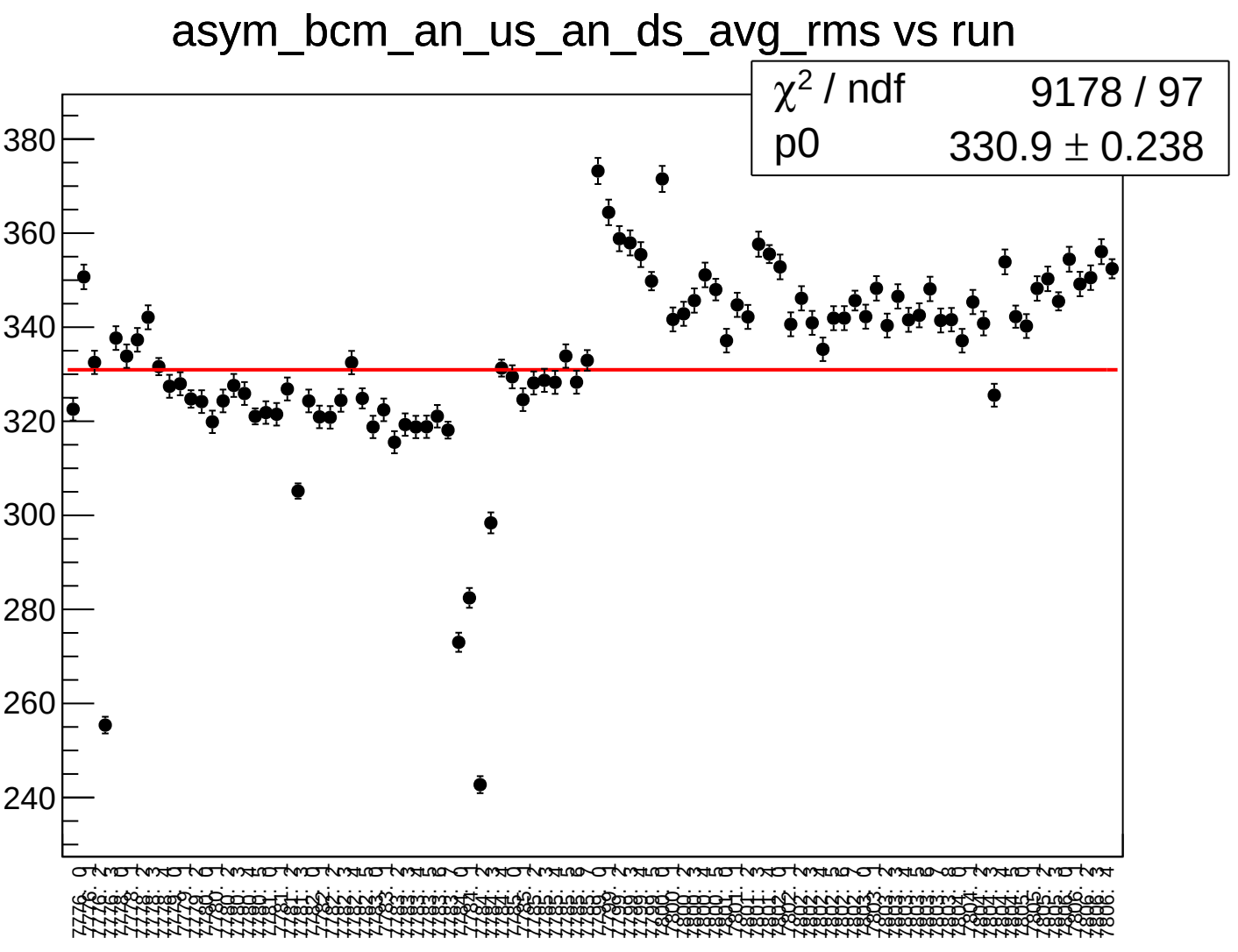

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 24.78 / 97
p0 −450.1 ± 336.7
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 3.614
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.004921
Std Dev 0.5028
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

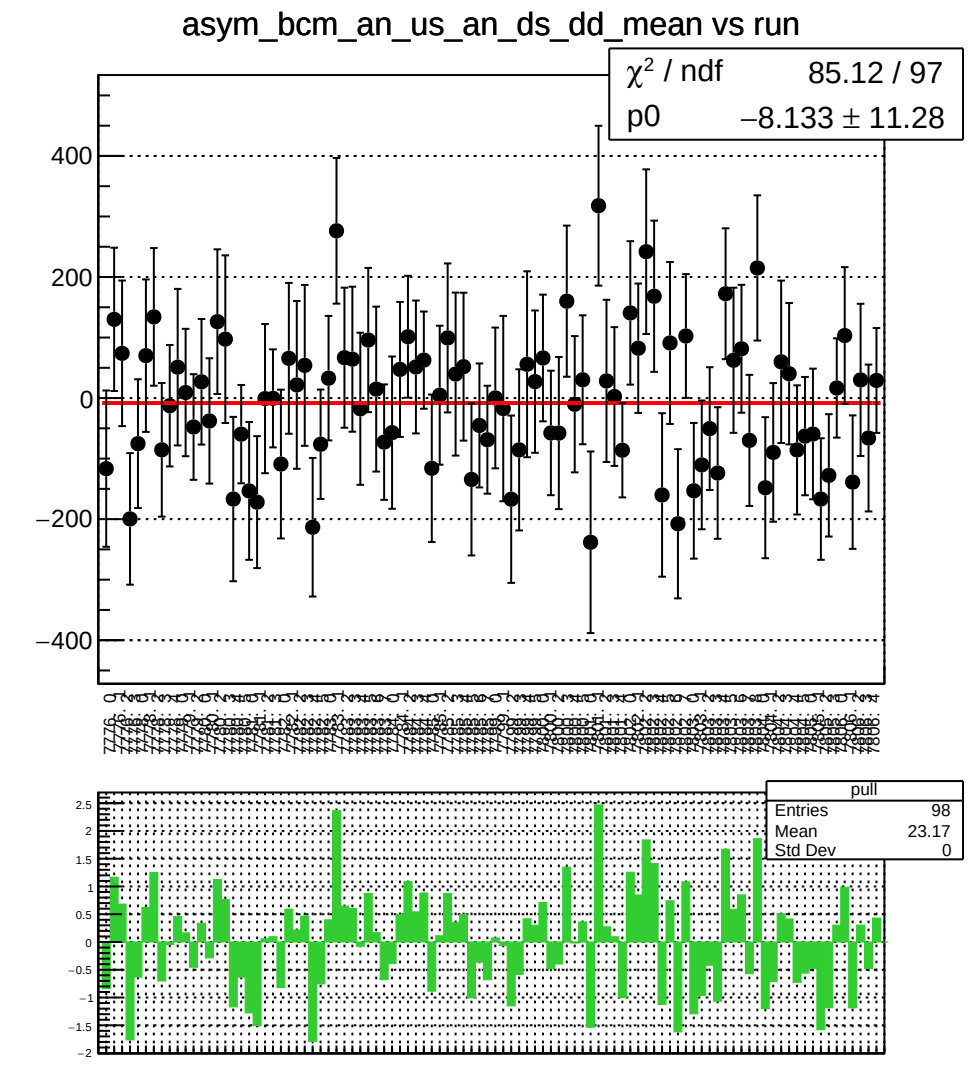

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 9160 / 97
p0 331.1 ± 0.2381
380
360
340
320
300
280
260
240

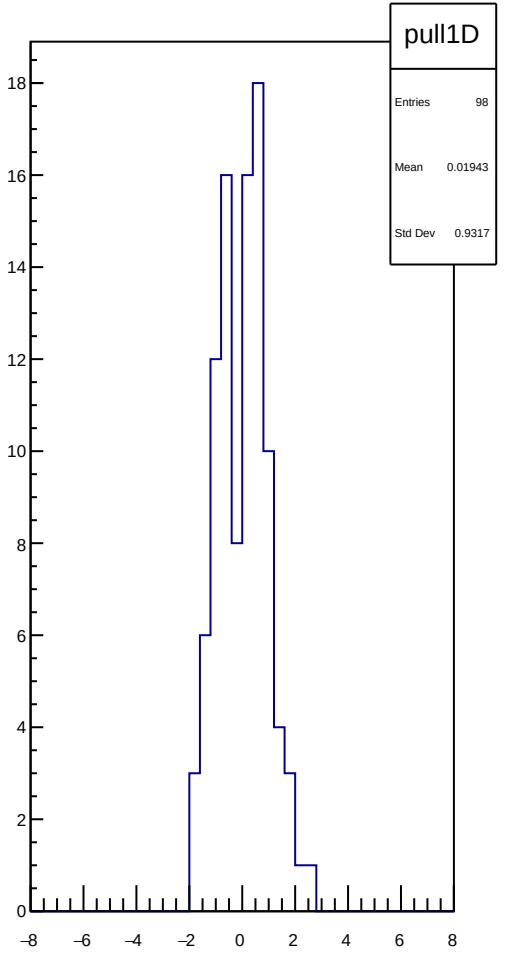

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 25.23 / 97
p0 −154.9 ± 113.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean 9.865
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean 0.005603
Std Dev 0.5074
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

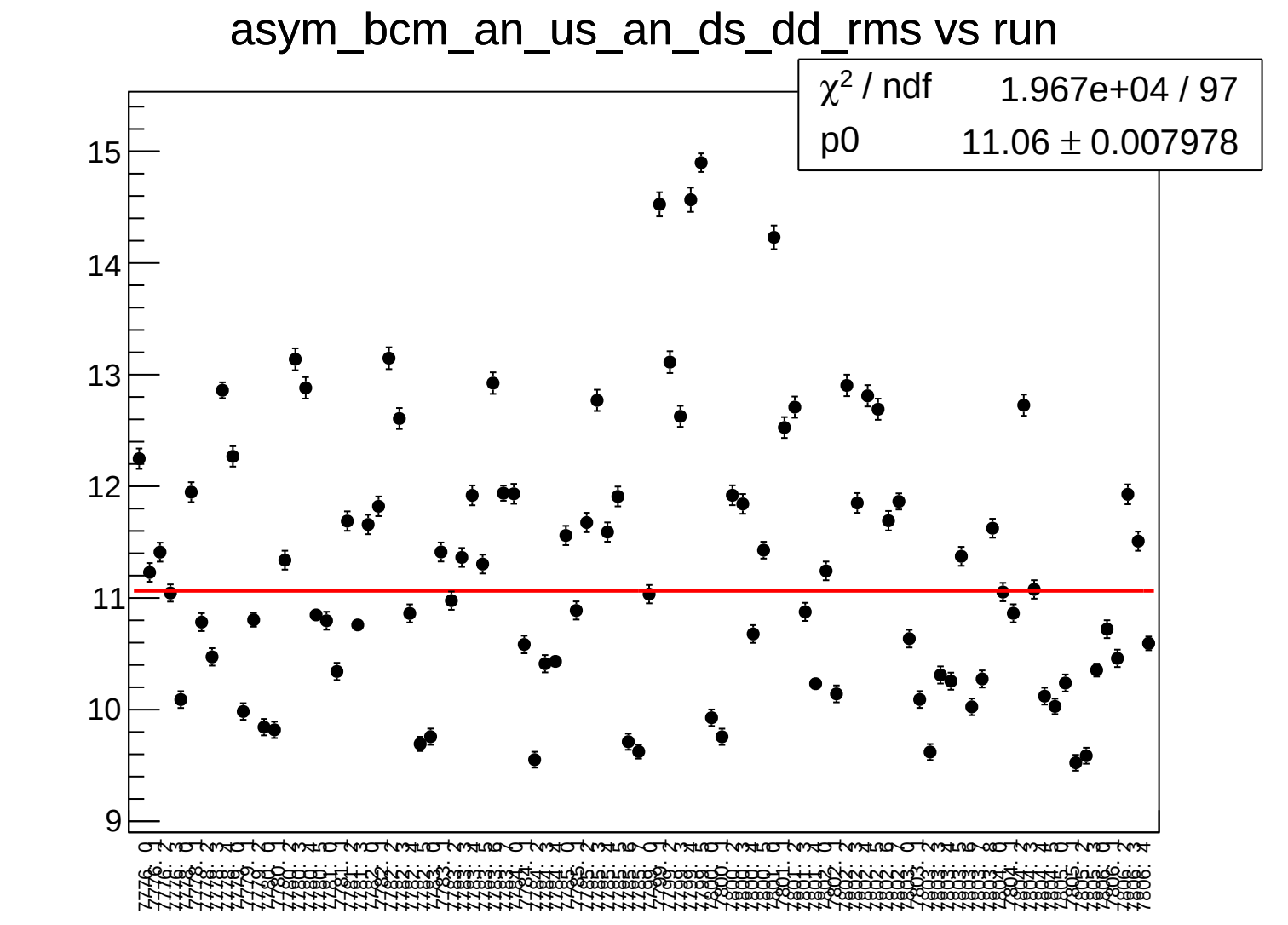

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 8876 / 97
p0 111.4 ± 0.0801
130
120
110
100
90
80

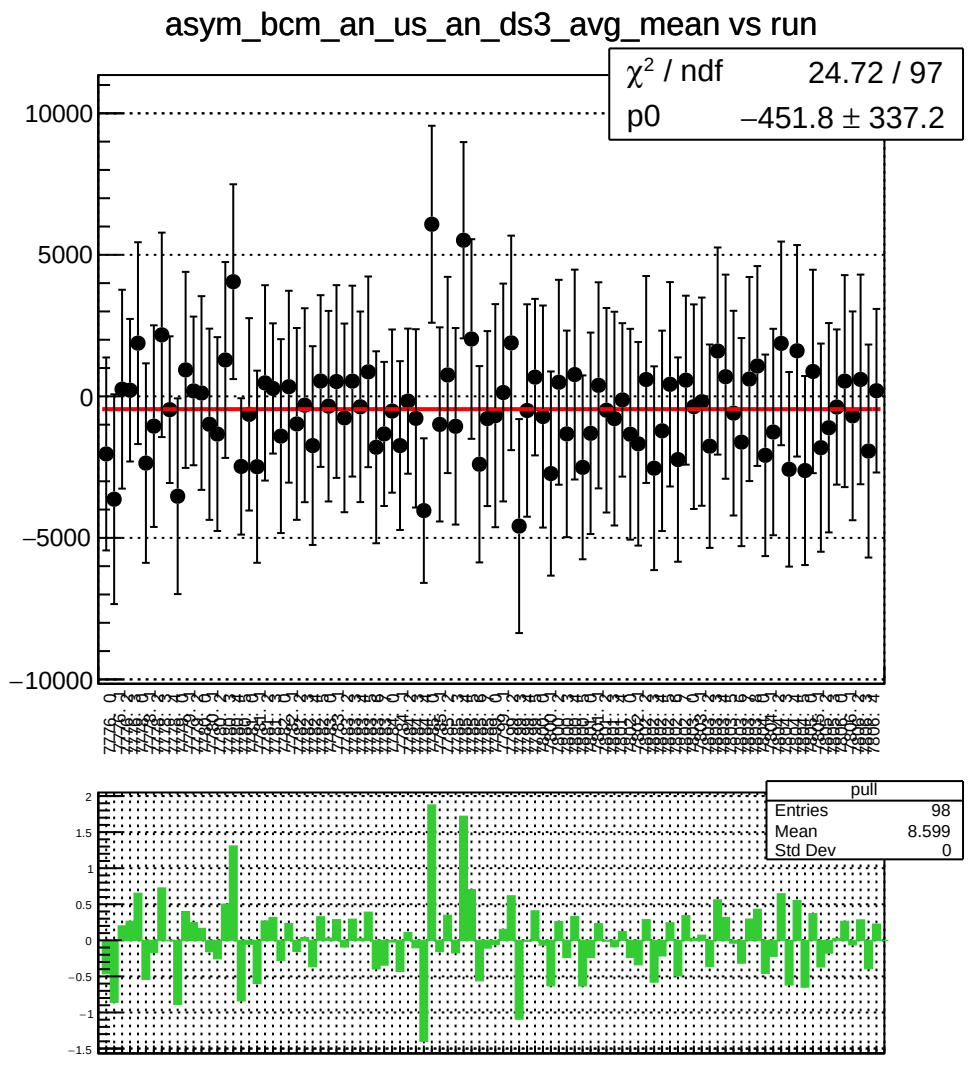

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 24.79 / 97
p0 −448.4 ± 336.6
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 2.742
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.004841
Std Dev 0.503
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

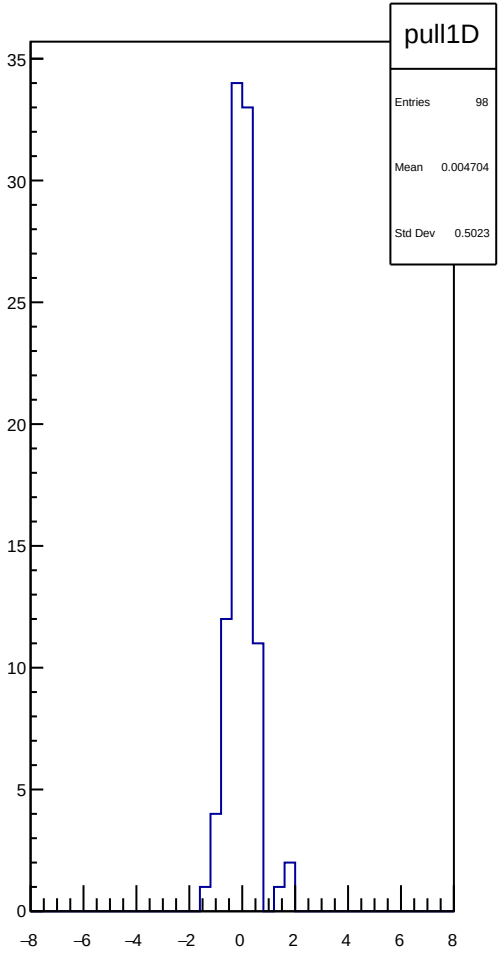

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 9178 / 97
p0 330.9 ± 0.238
380
360
340
320
300
280
260
240

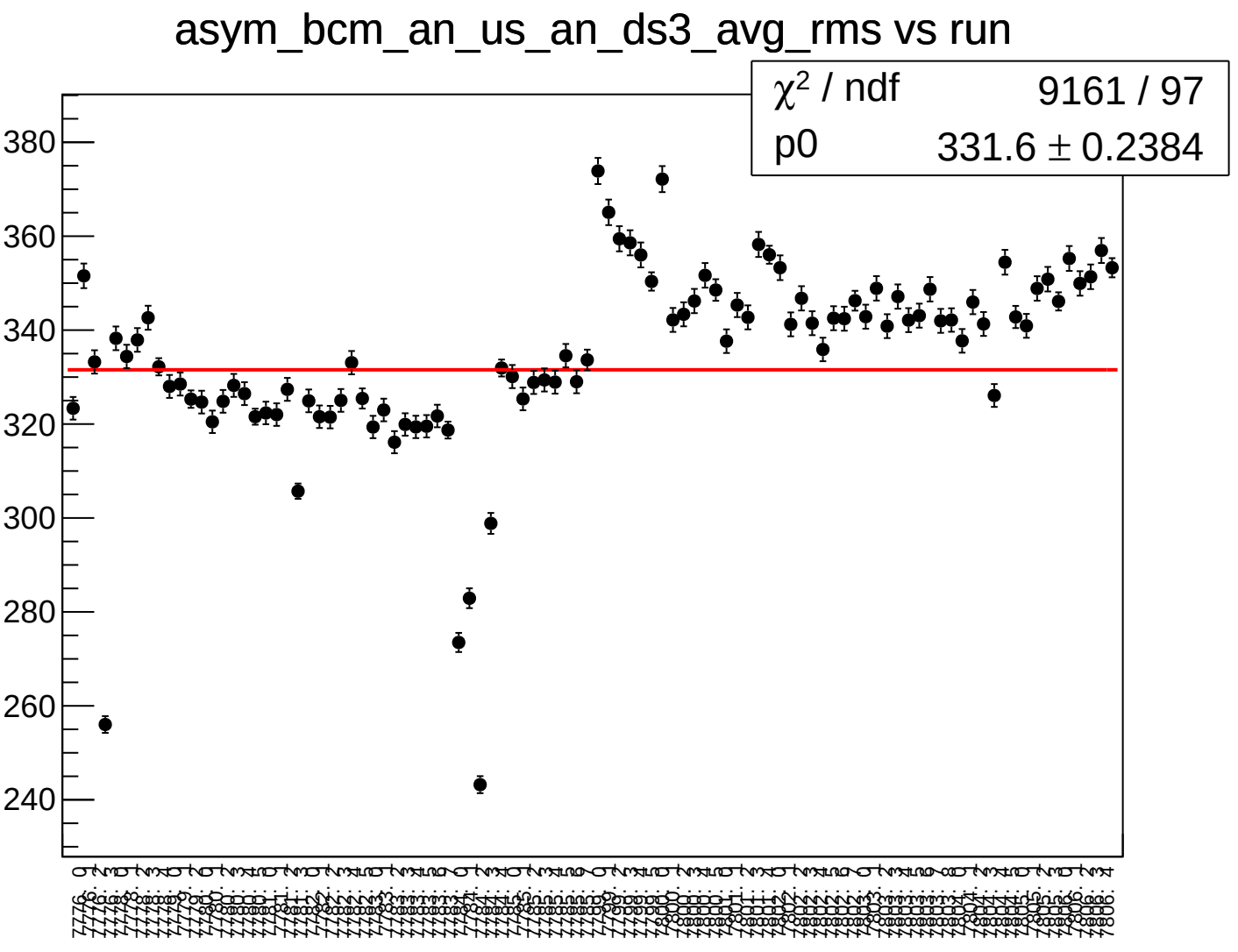

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 85.12 / 97
p0 −8.133 ± 11.28
400
200
0
−200
−400
pull
Entries 98
Mean 23.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

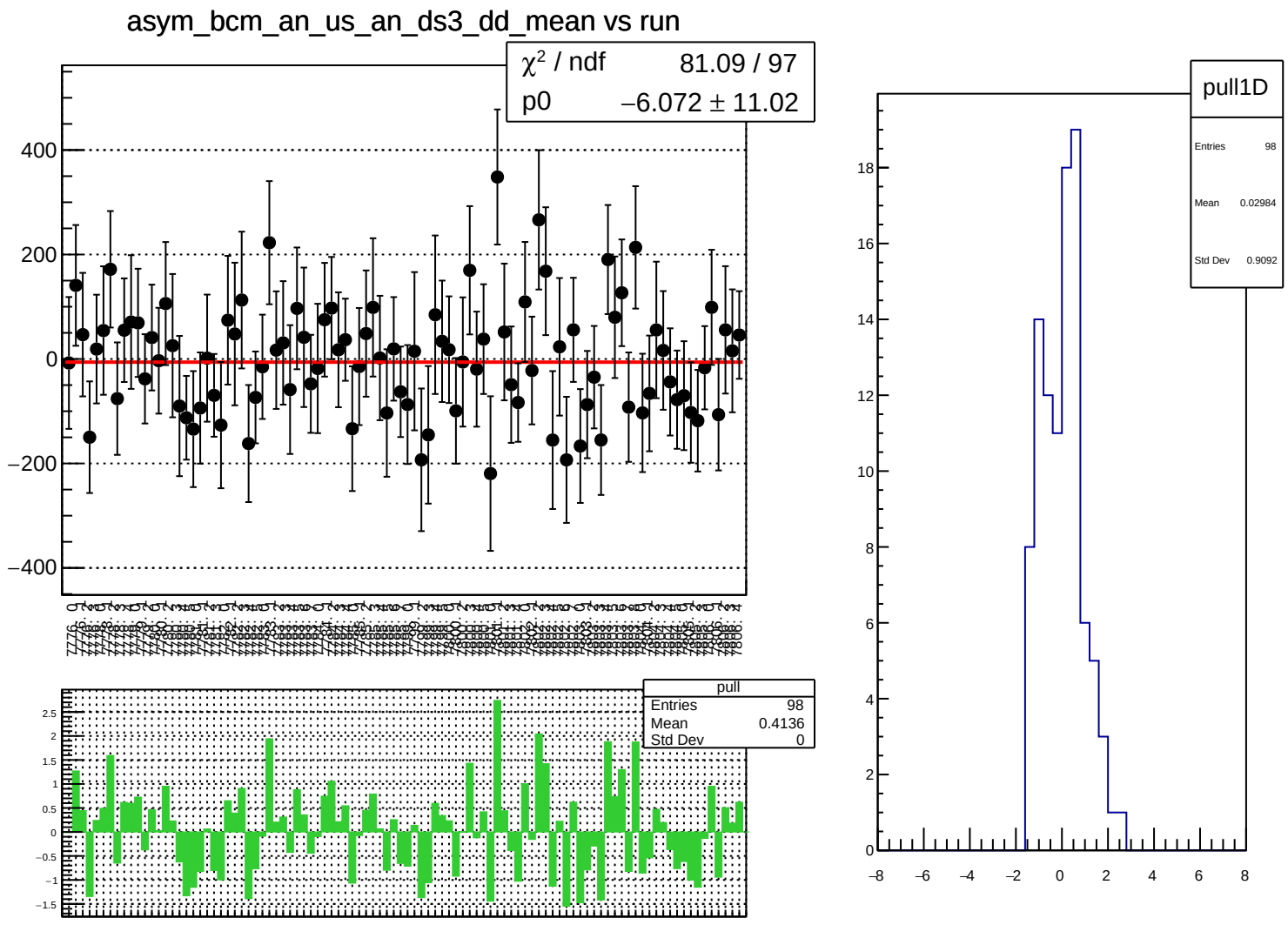

pull1D
Entries 98
Mean 0.01943
Std Dev 0.9317
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

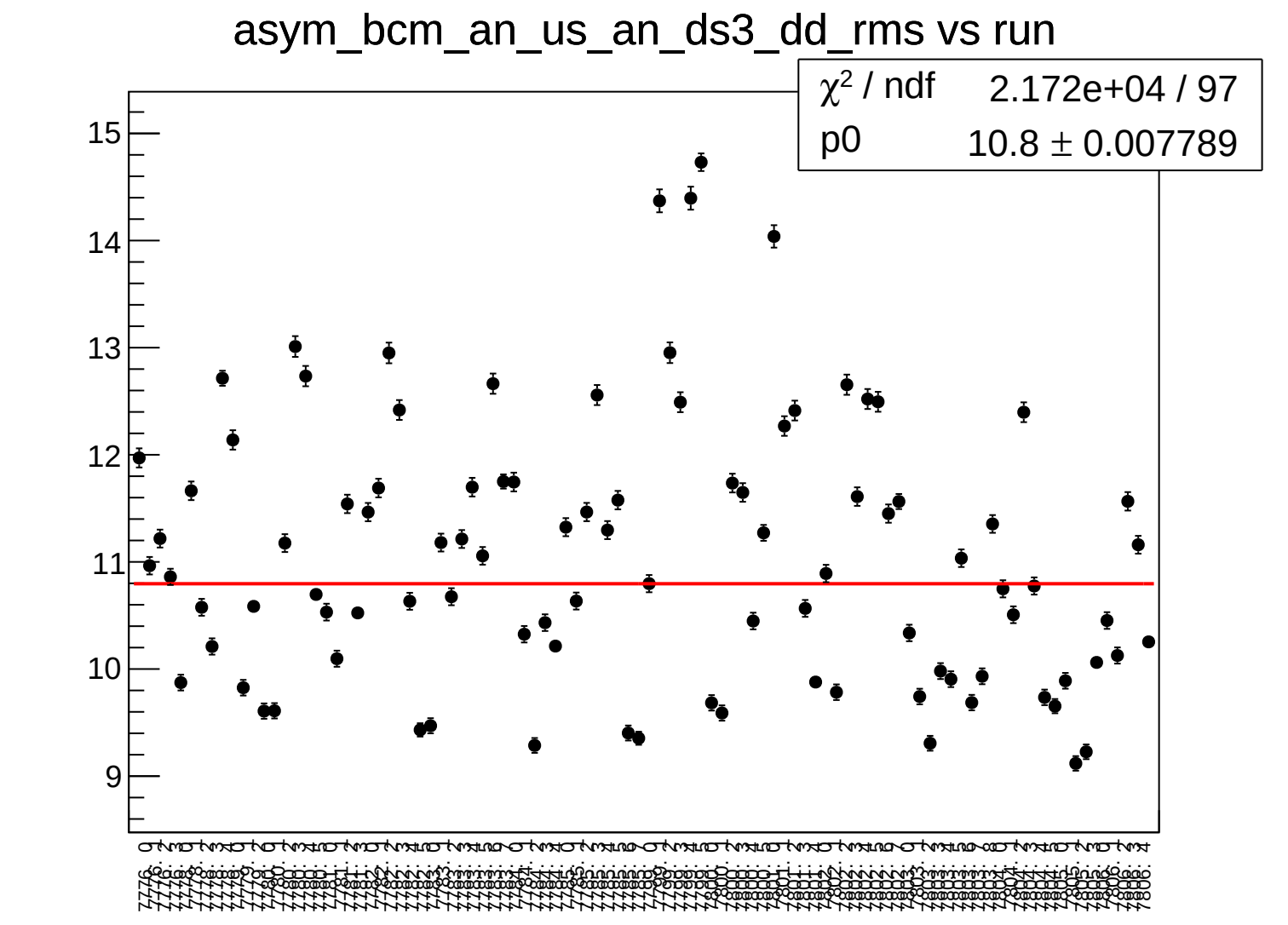

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.967e+04 / 97
p0 11.06 ± 0.007978
15
14
13
12
11
10
9

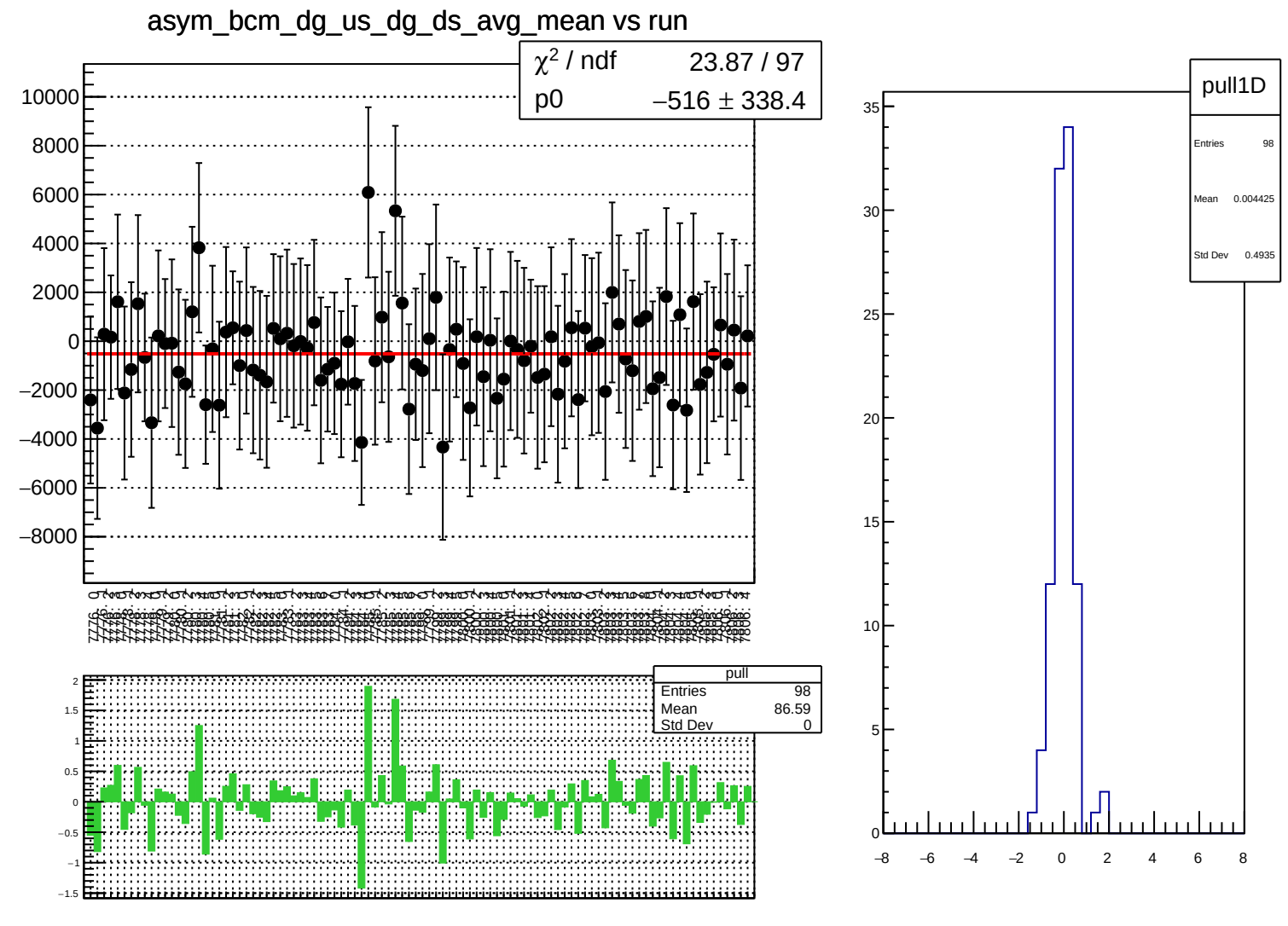

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 24.72 / 97
p0 −451.8 ± 337.2
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 8.599
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

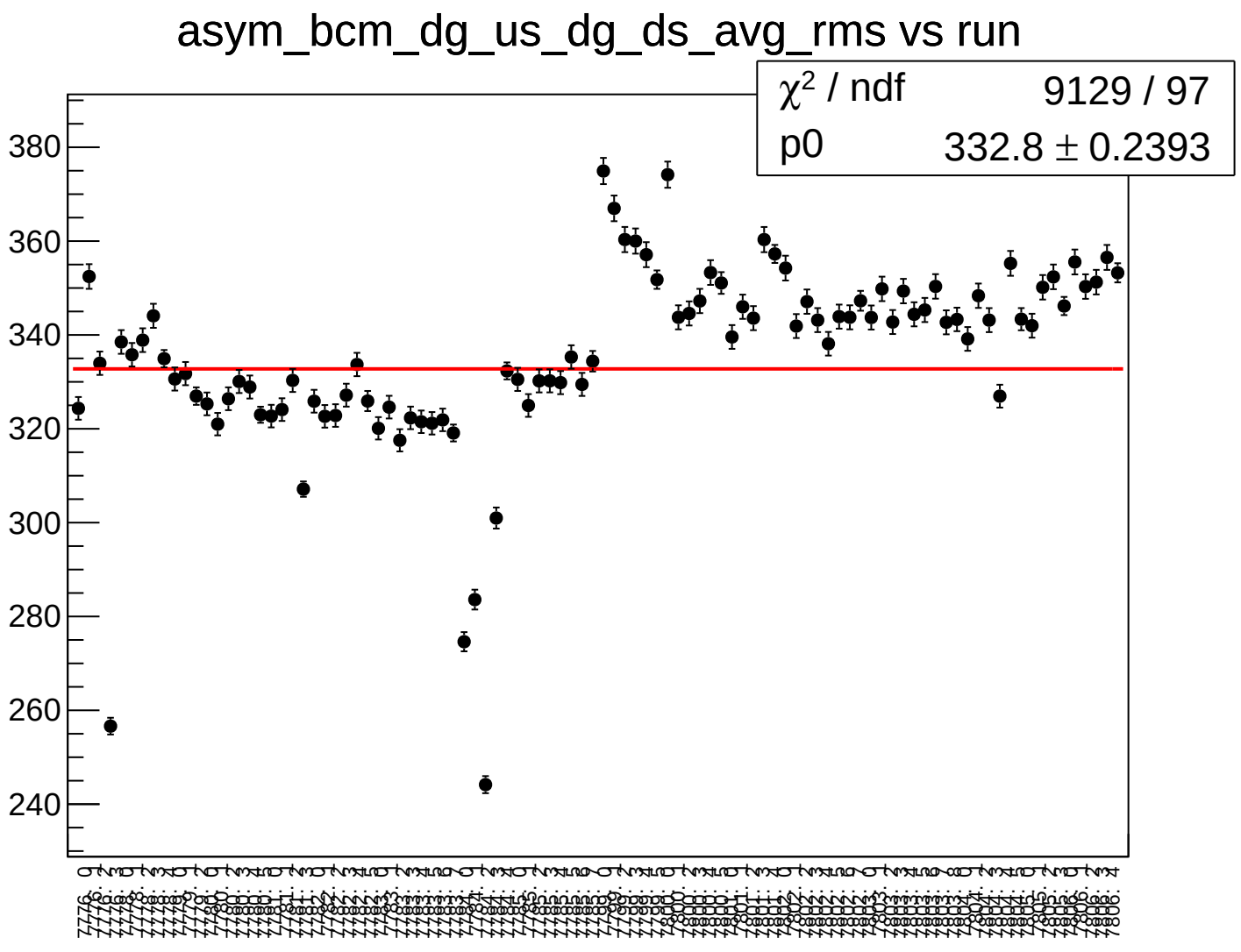

pull1D
Entries 98
Mean 0.004704
Std Dev 0.5023
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

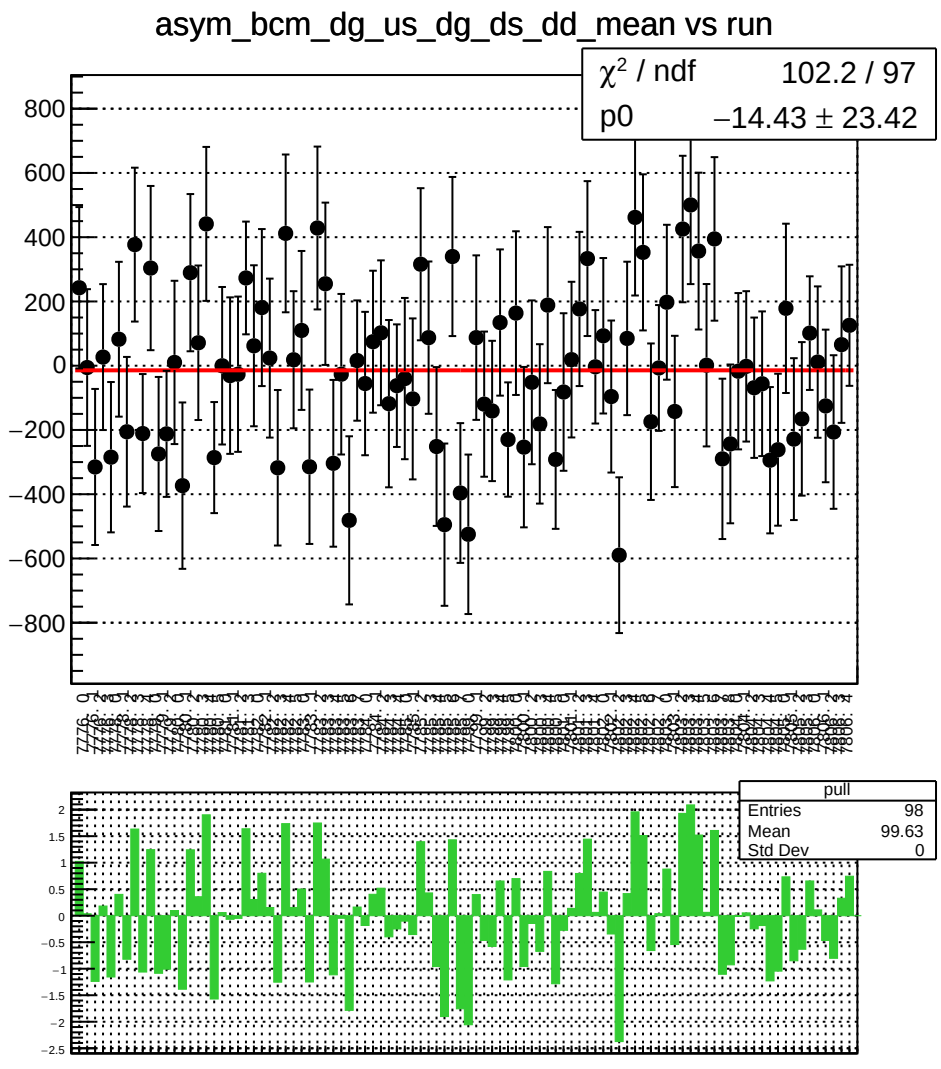

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 9161 / 97
p0 331.6 ± 0.2384
380
360
340
320
300
280
260
240

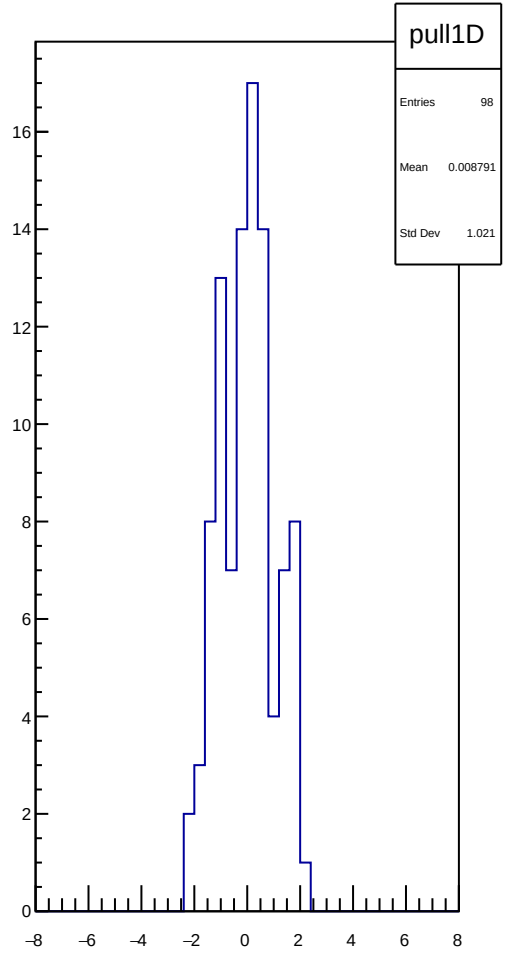

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 81.09 / 97
p0 −6.072 ± 11.02
400
200
0
−200
−400
pull
Entries 98
Mean 0.4136
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.02984
Std Dev 0.9092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

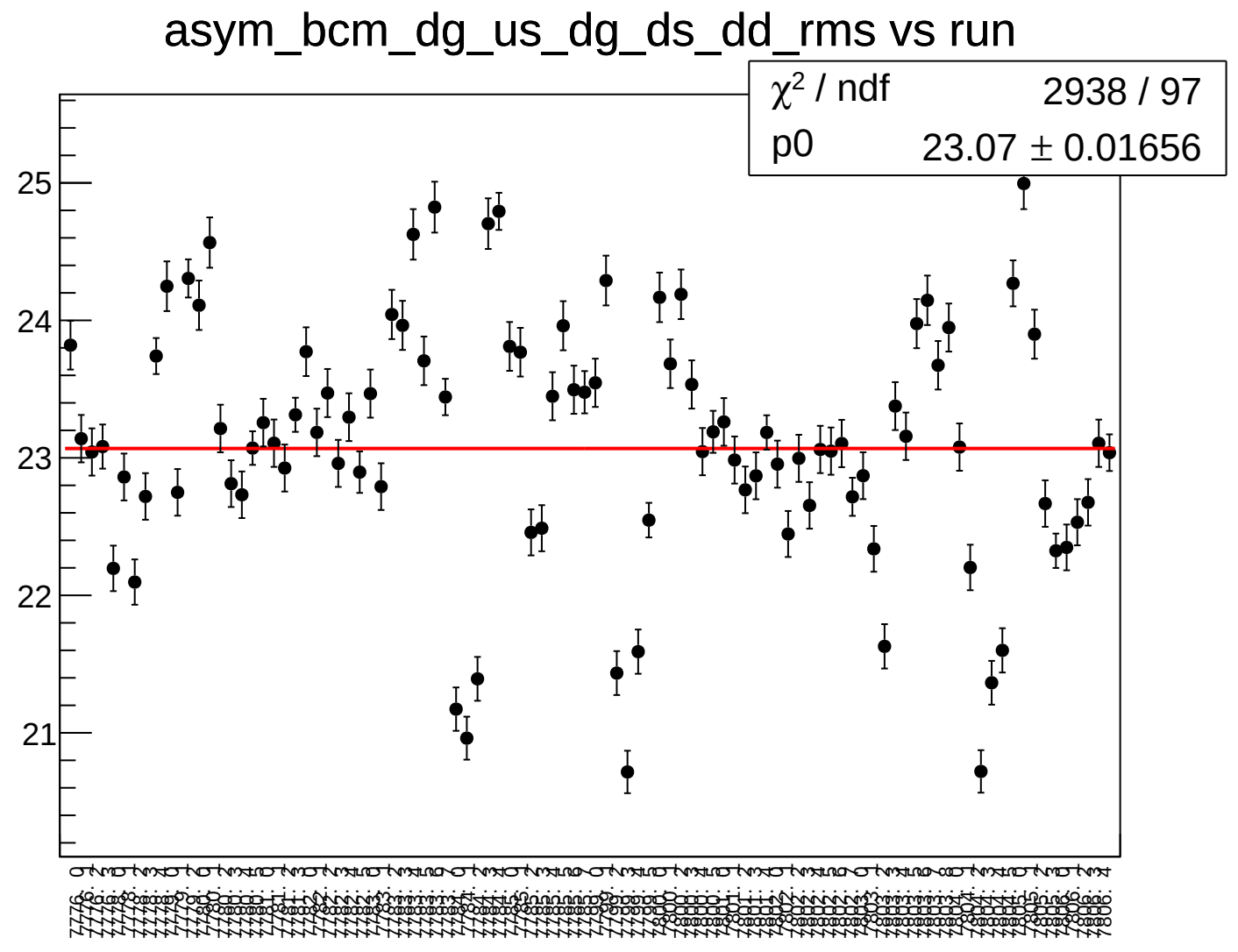

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 2.172e+04 / 97
p0 10.8 ± 0.007789
15
14
13
12
11
10
9

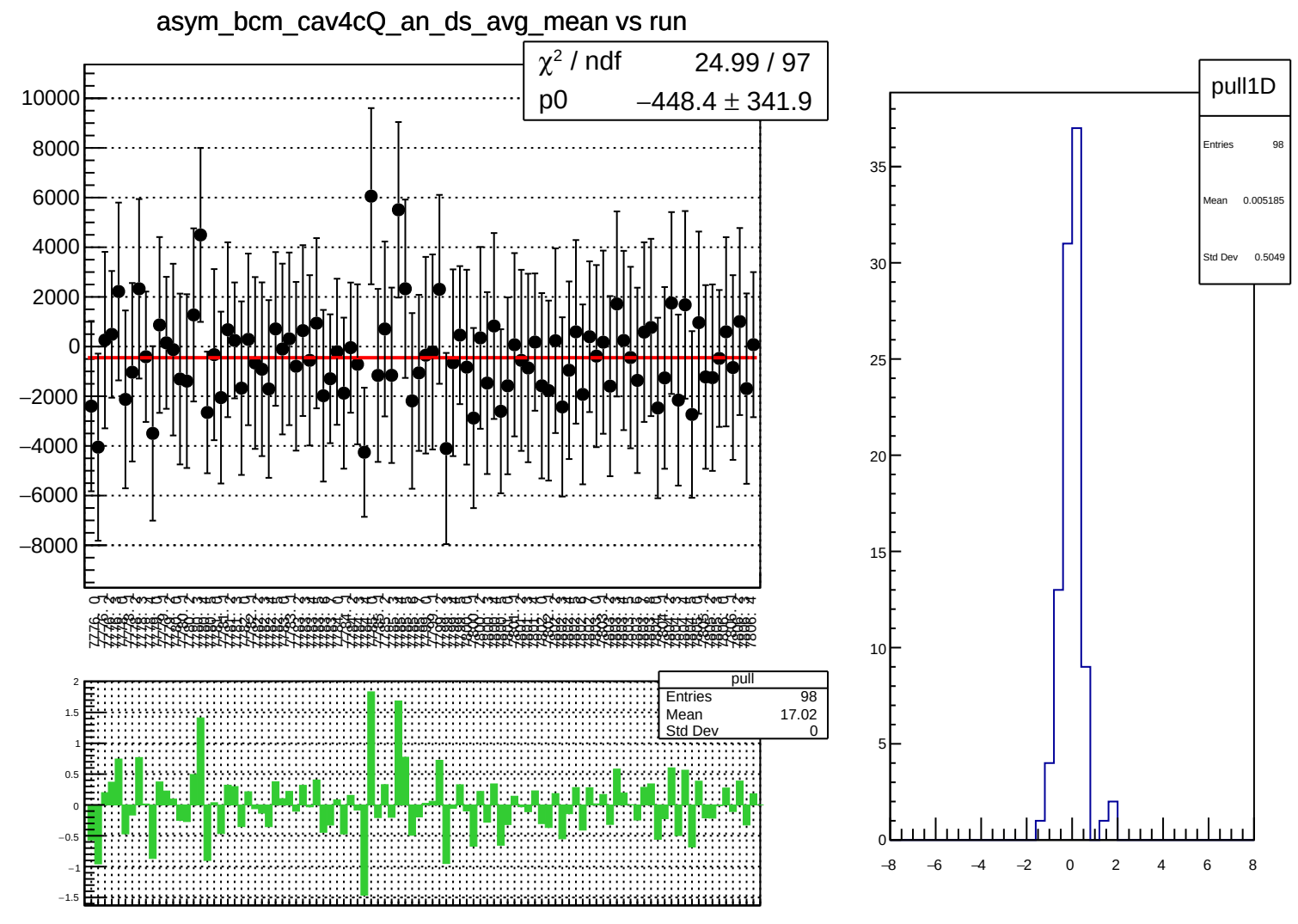

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 23.87 / 97
p0 −516 ± 338.4
pull
Entries 98
Mean 86.59
Std Dev 0
pull1D
Entries 98
Mean 0.004425
Std Dev 0.4935

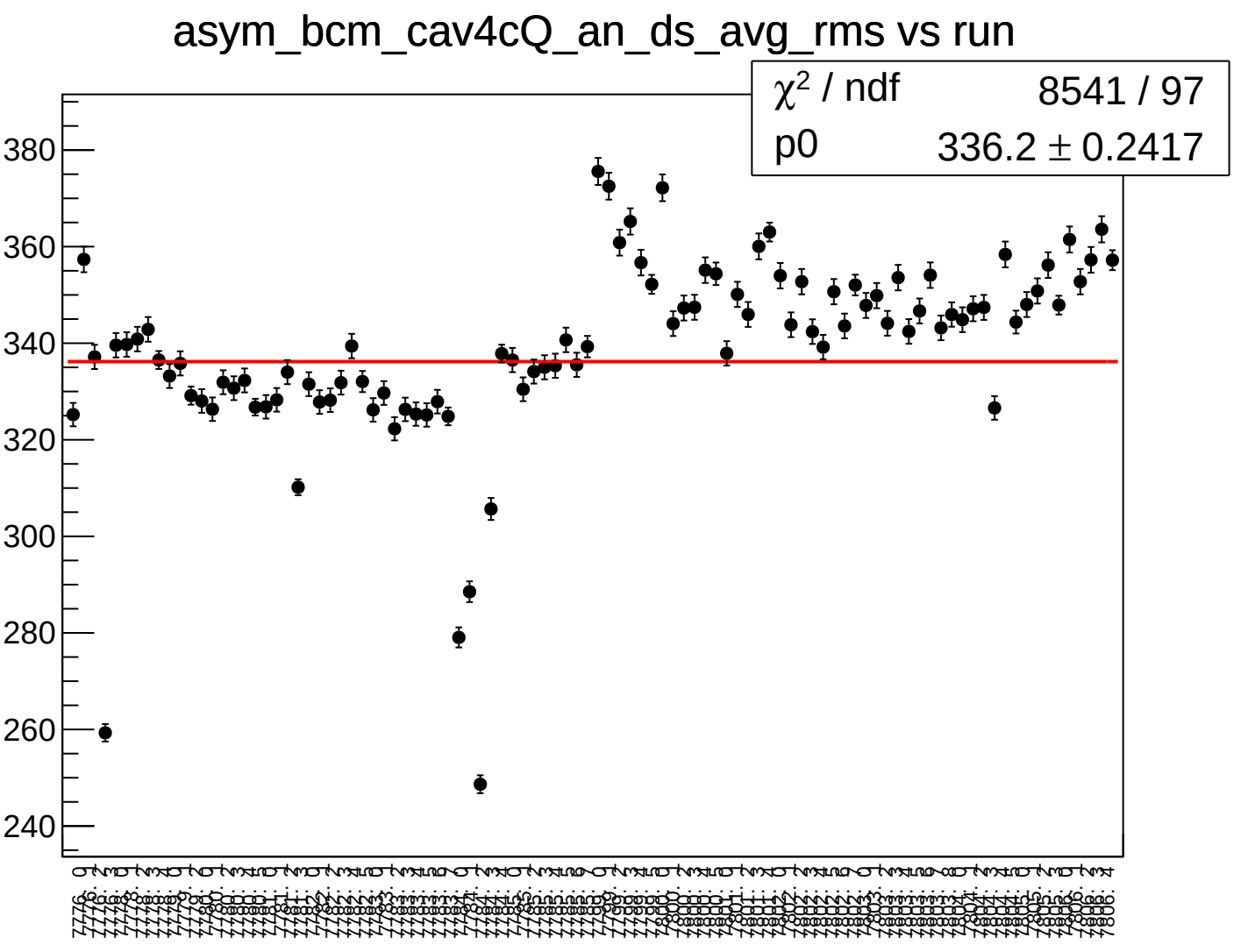

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ^2 / ndf 9129 / 97
p0 332.8 ± 0.2393
380
360
340
320
300
280
260
240

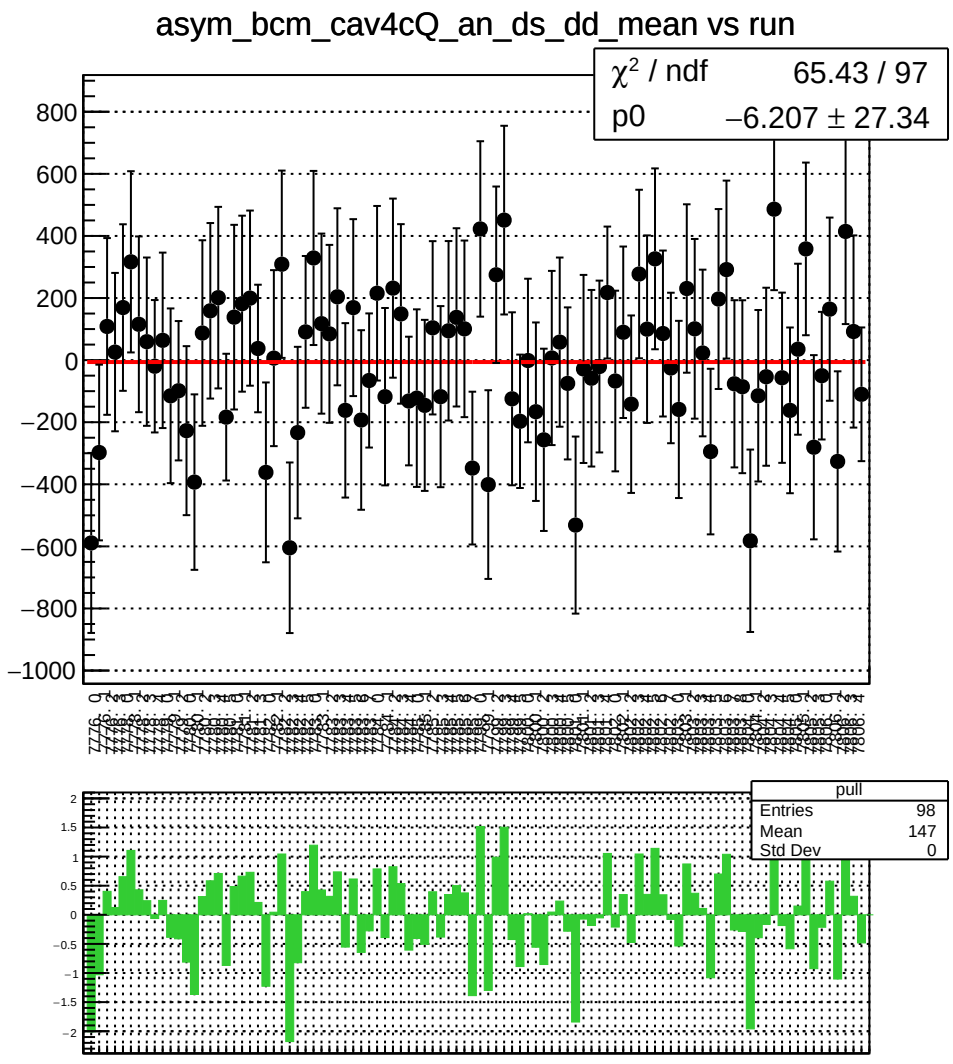

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 102.2 / 97
p0 −14.43 ± 23.42
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 98
Mean 99.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

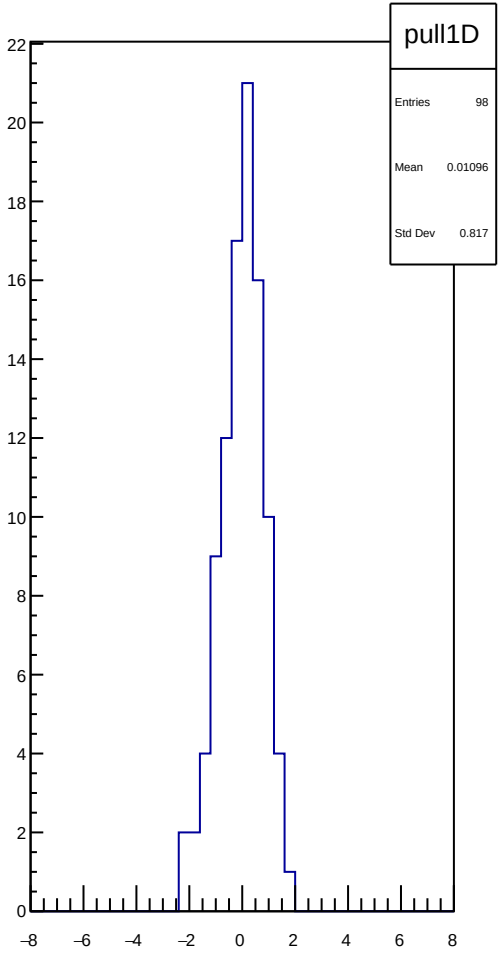

pull1D
Entries 98
Mean 0.008791
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

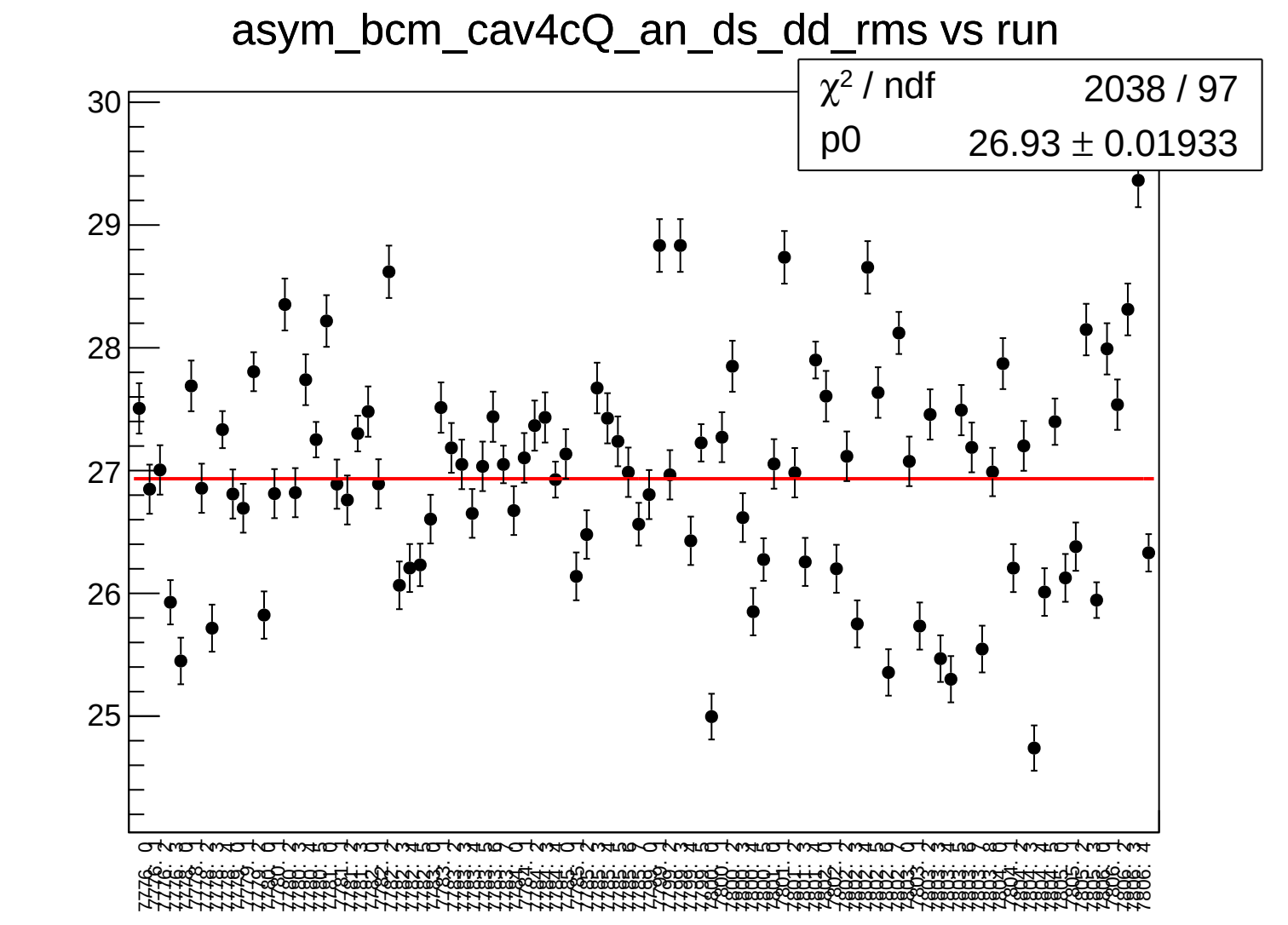

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2938 / 97
p0 23.07 ± 0.01656
25
24
23
22
21

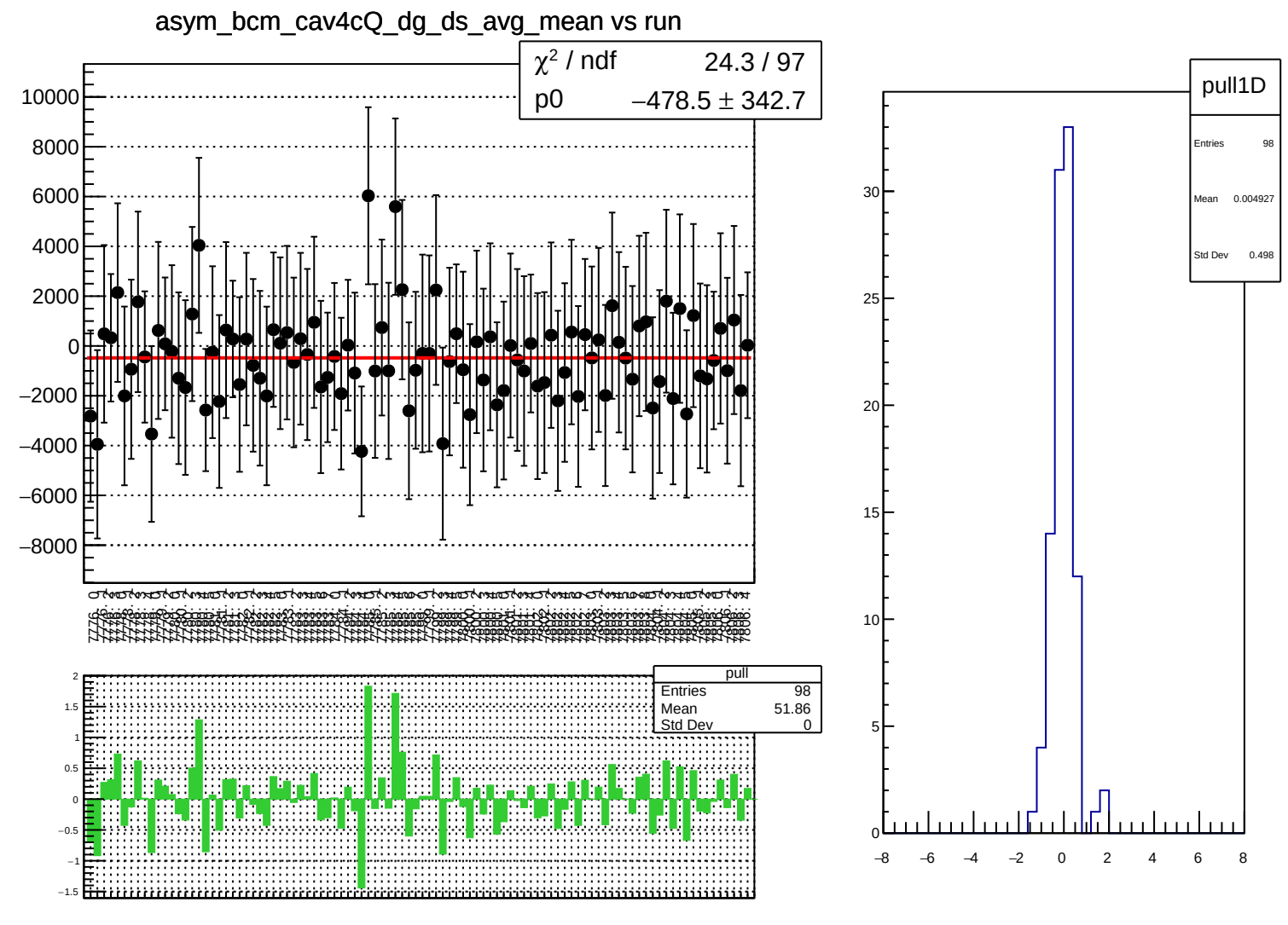

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 24.99 / 97
p0 −448.4 ± 341.9
pull
Entries 98
Mean 17.02
Std Dev 0
pull1D
Entries 98
Mean 0.005185
Std Dev 0.5049

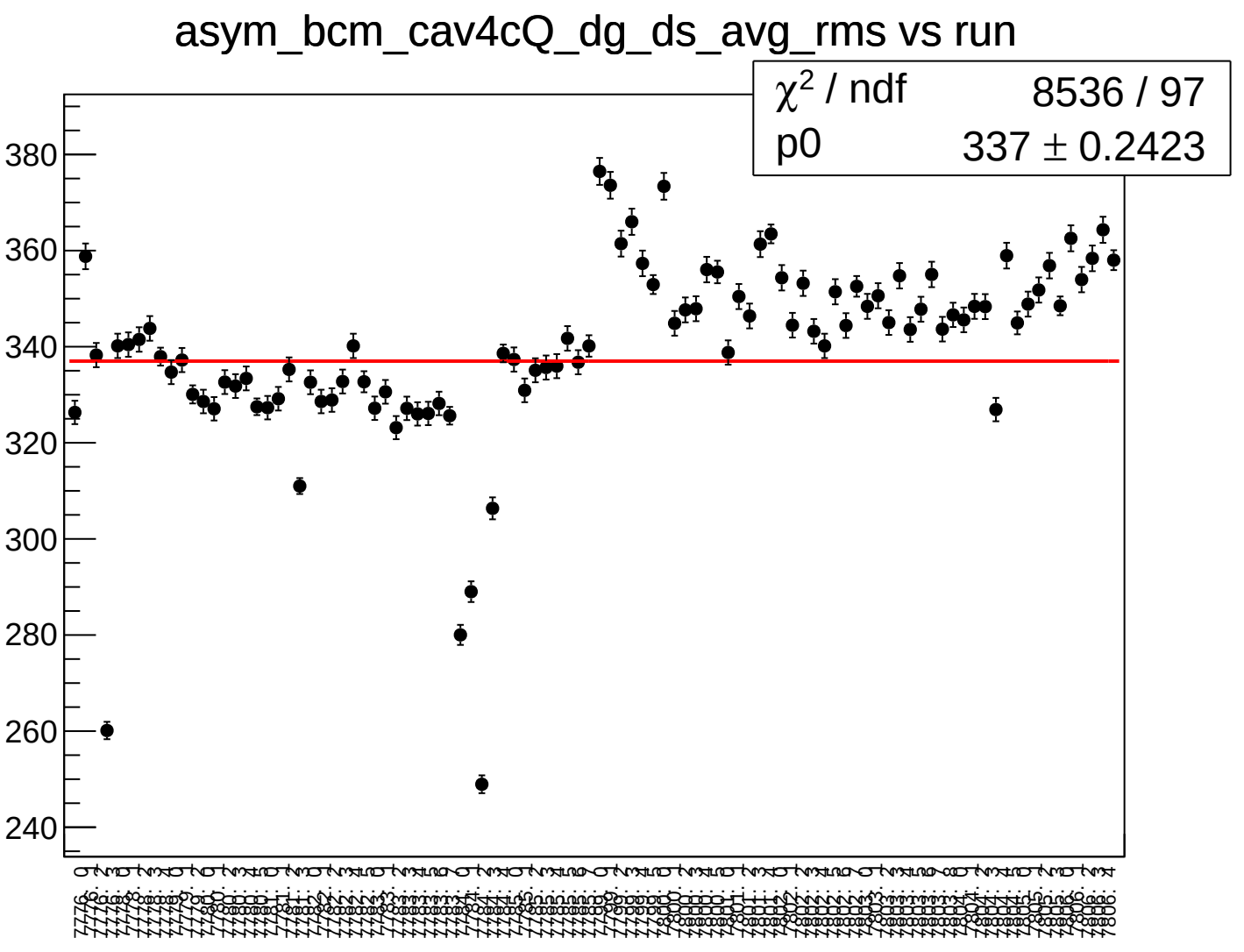

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 8541 / 97
p0 336.2 ± 0.2417
380
360
340
320
300
280
260
240

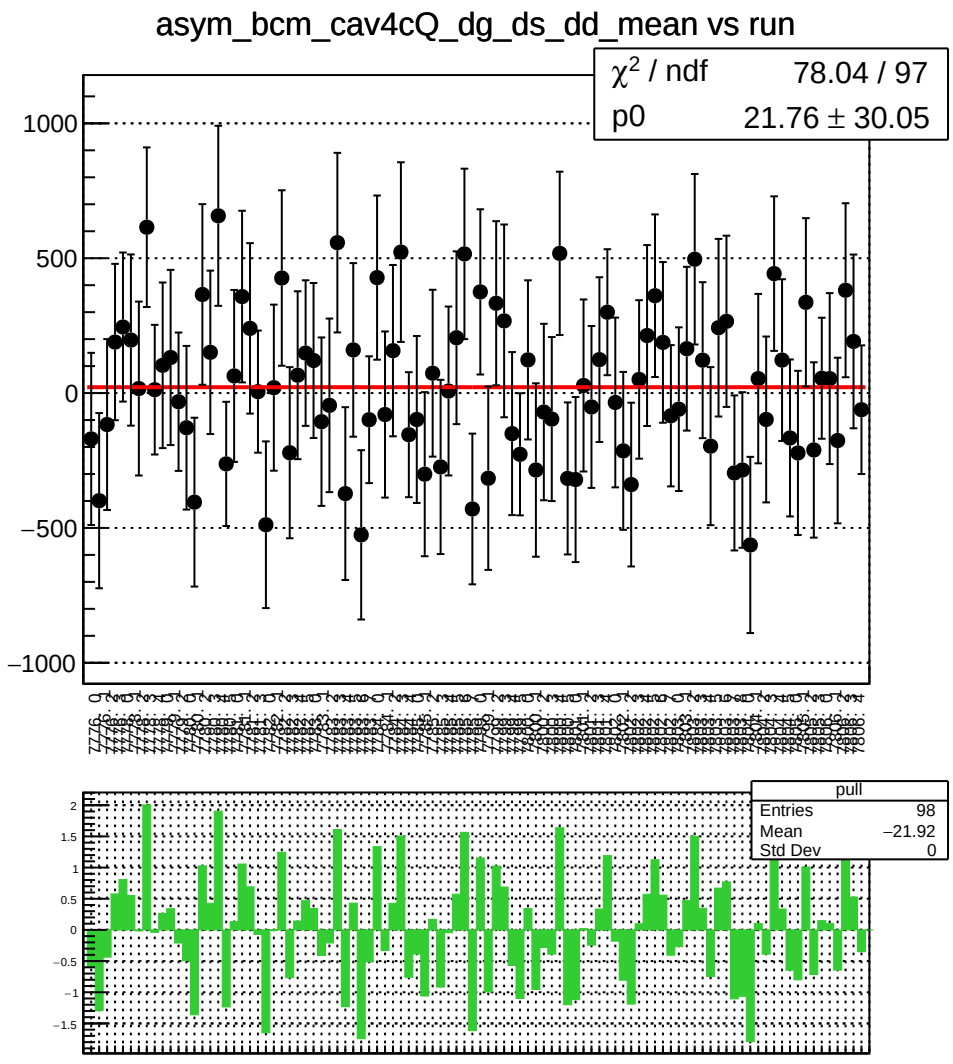

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 65.43 / 97
p0 −6.207 ± 27.34
pull
Entries 98
Mean 147
Std Dev 0

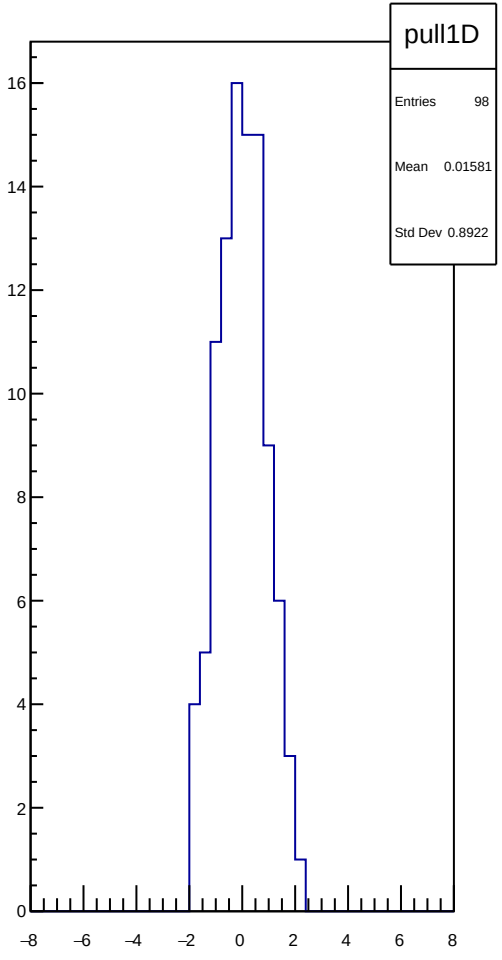

pull1D
Entries 98
Mean 0.01096
Std Dev 0.817

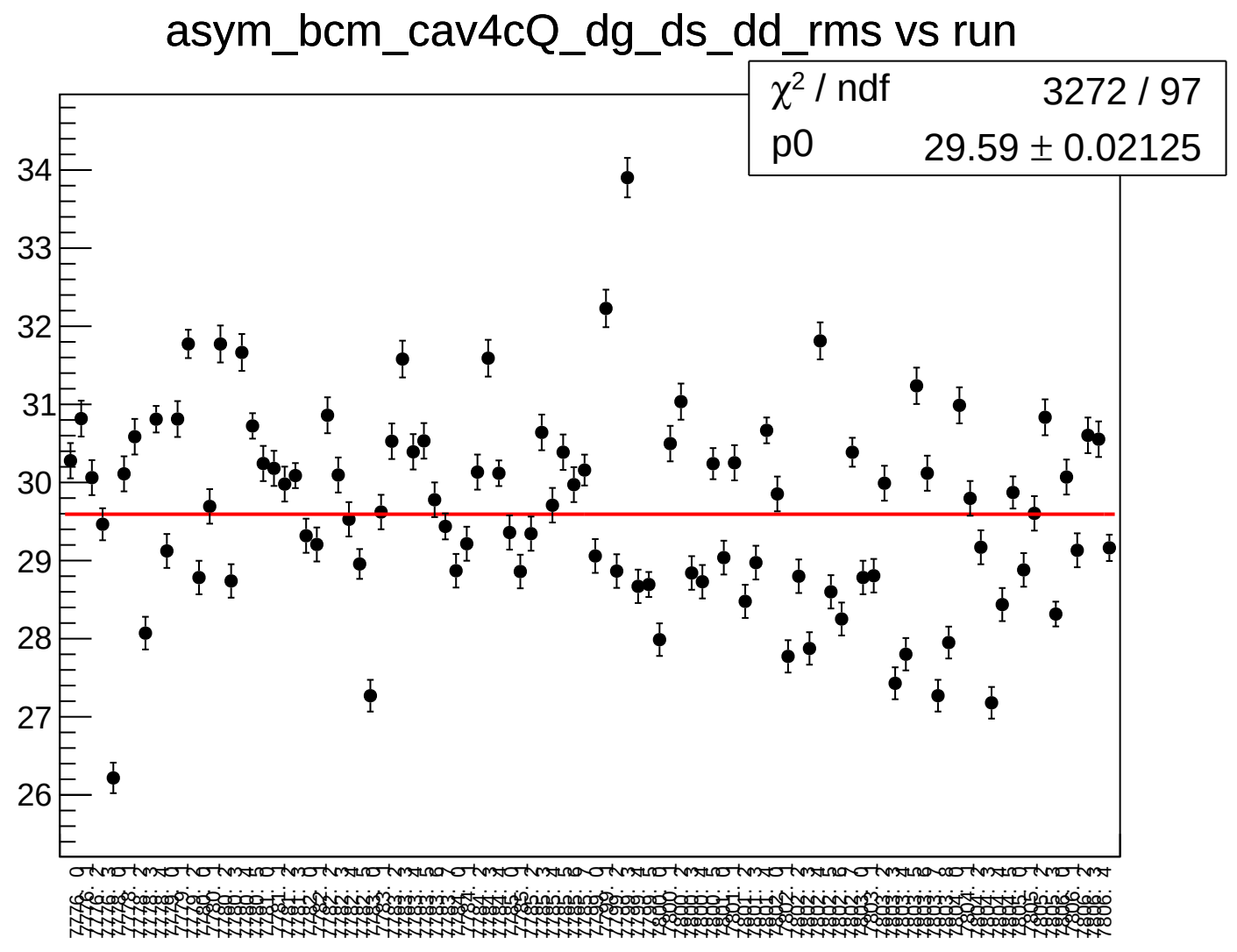

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2038 / 97
p0 26.93 ± 0.01933
30
29
28
27
26
25

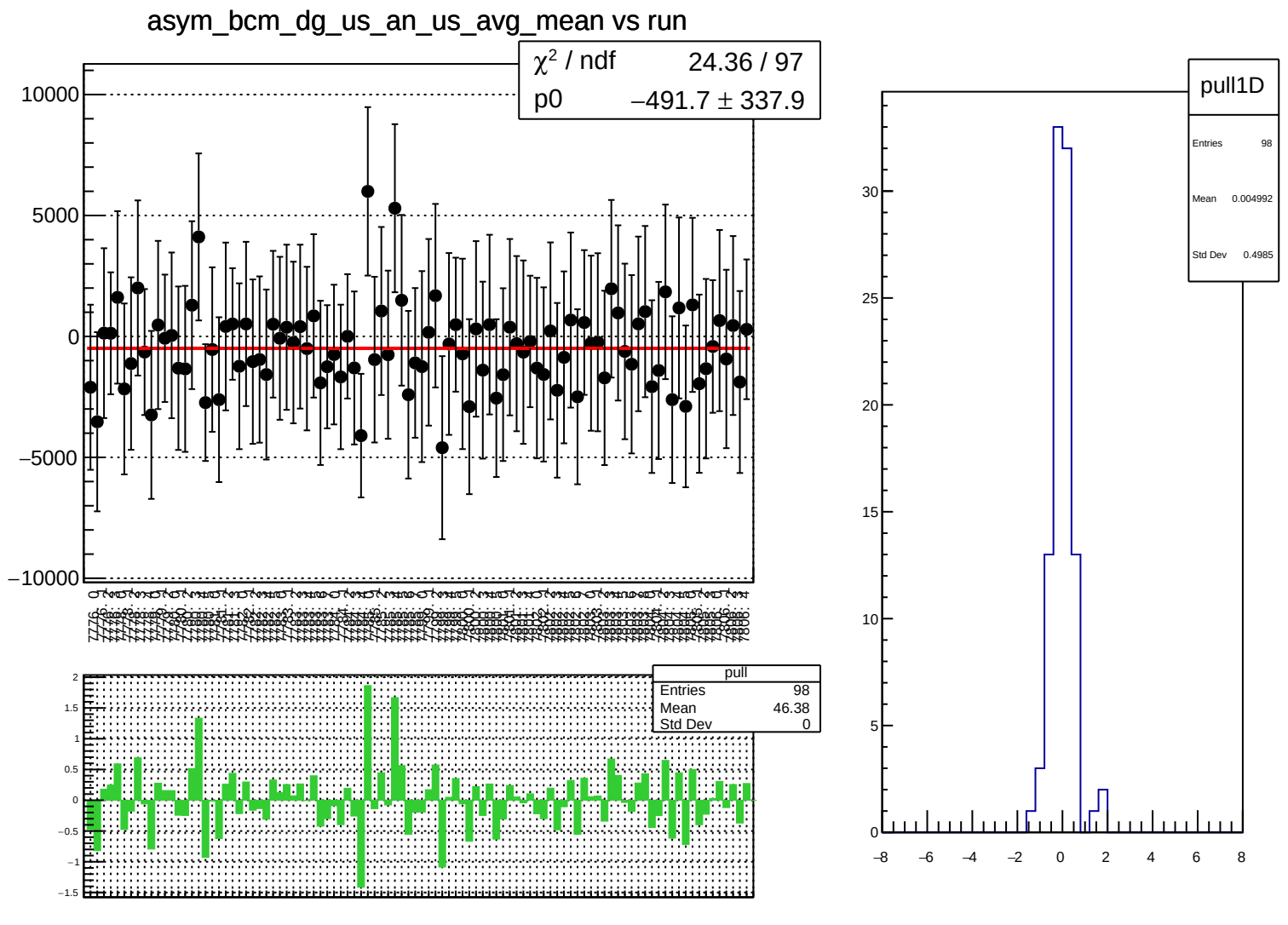

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 24.3 / 97
p0 −478.5 ± 342.7
pull
Entries 98
Mean 51.86
Std Dev 0
pull1D
Entries 98
Mean 0.004927
Std Dev 0.498

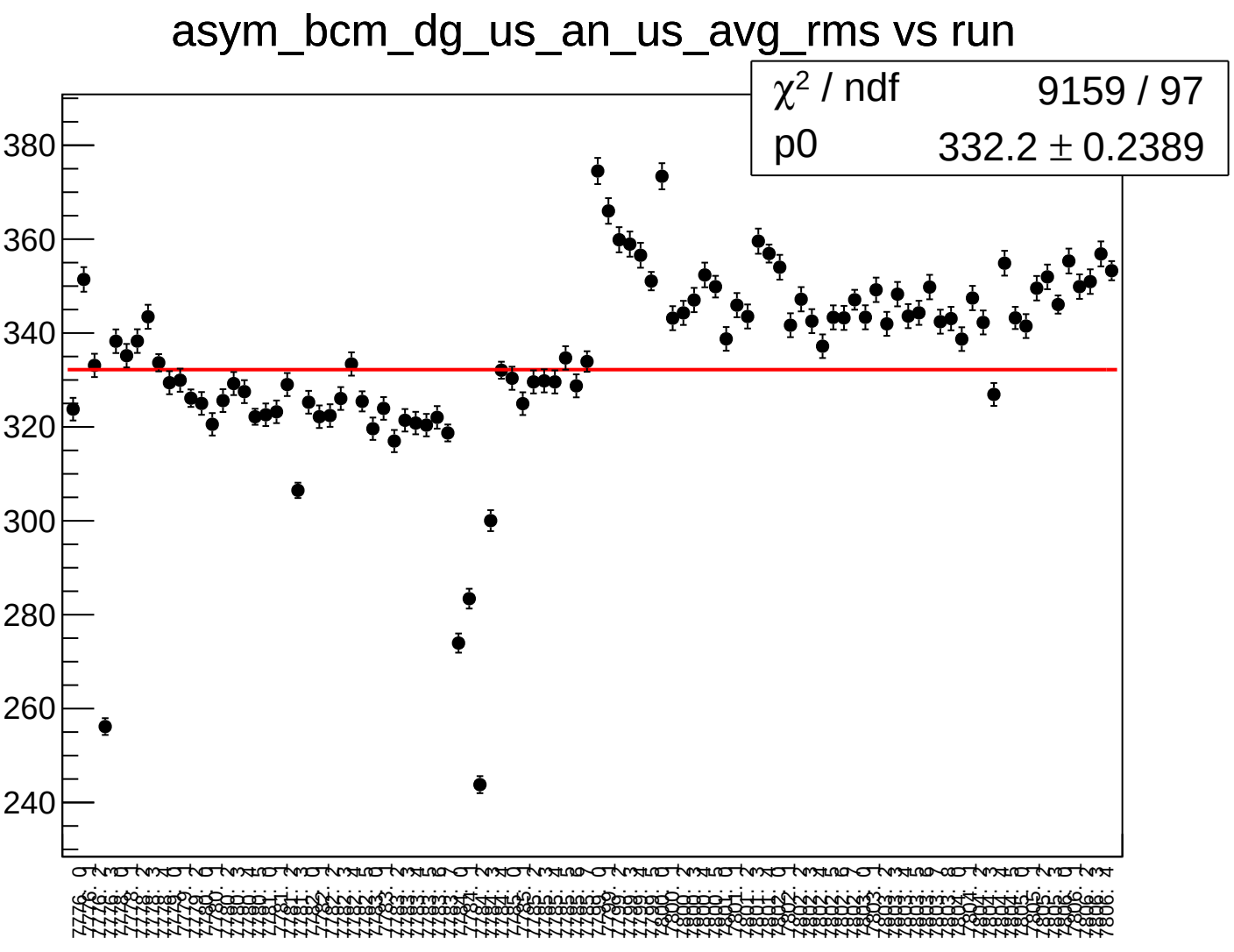

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 8536 / 97
p0 337 ± 0.2423
380
360
340
320
300
280
260
240

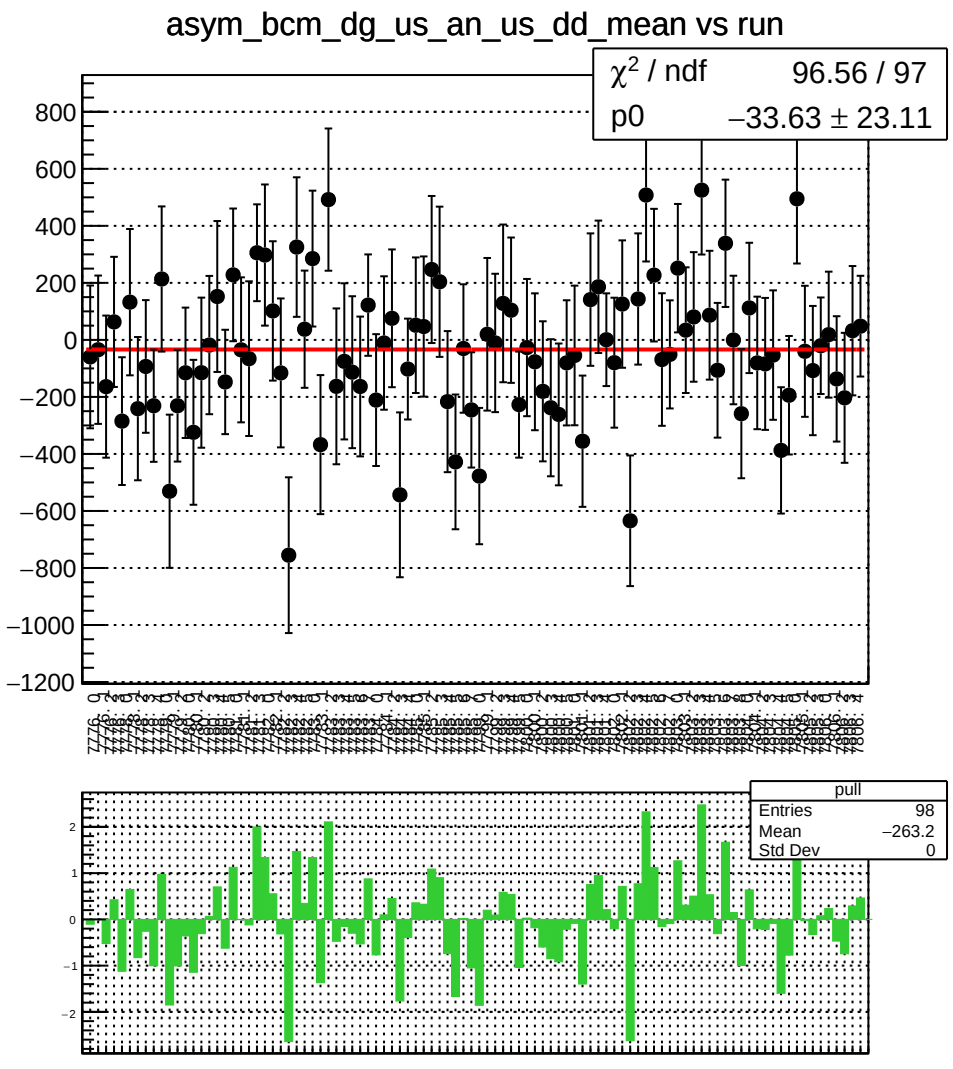

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 78.04 / 97
p0 21.76 ± 30.05
1000
500
0
−500
−1000
pull
Entries 98
Mean −21.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

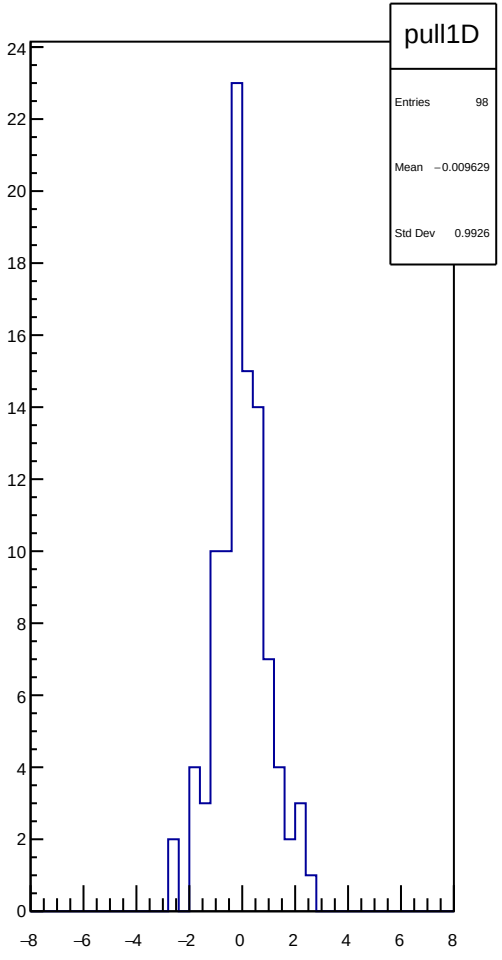

pull1D
Entries 98
Mean 0.01581
Std Dev 0.8922
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

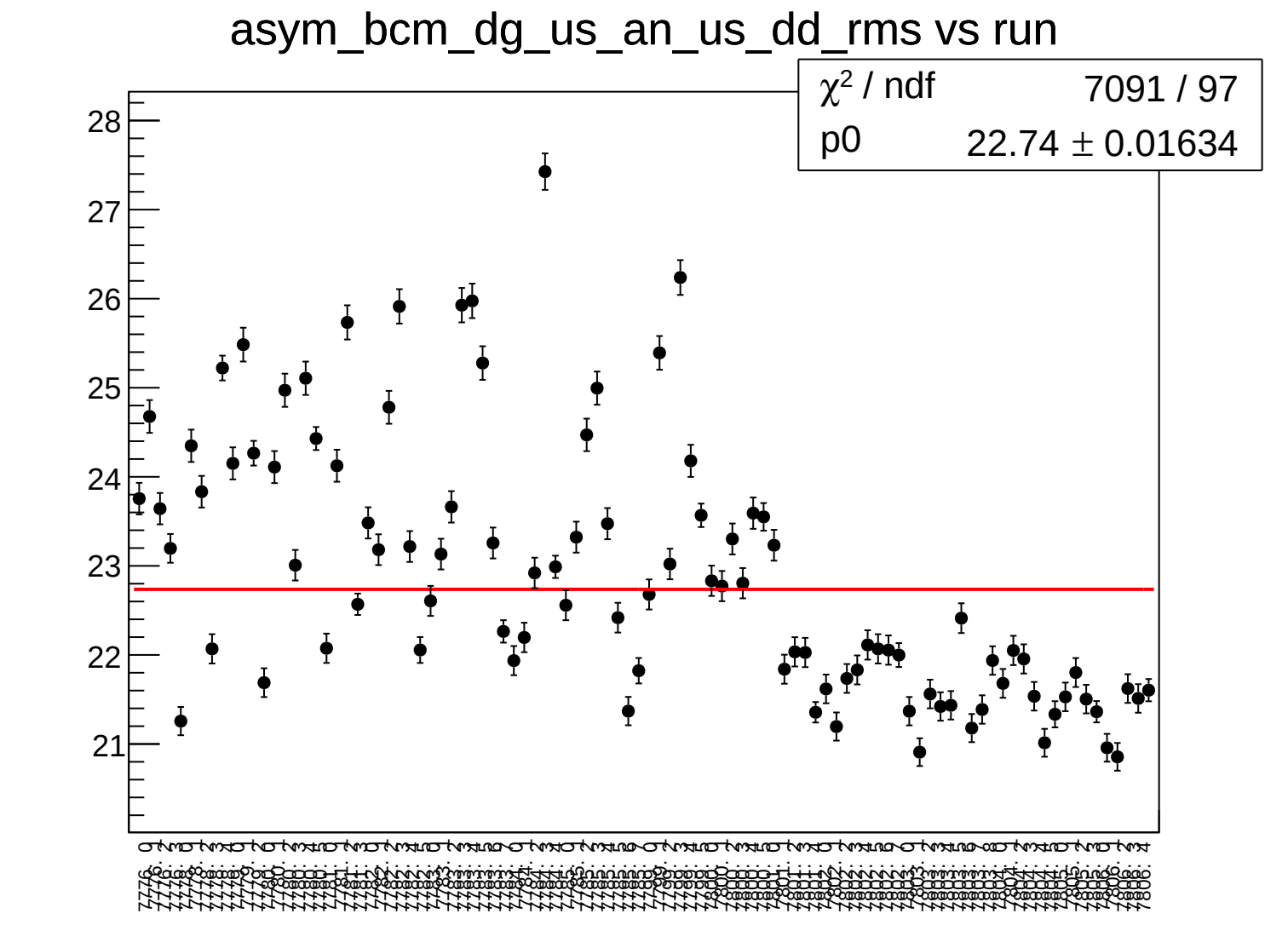

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 3272 / 97
p0 29.59 ± 0.02125
34
33
32
31
30
29
28
27
26

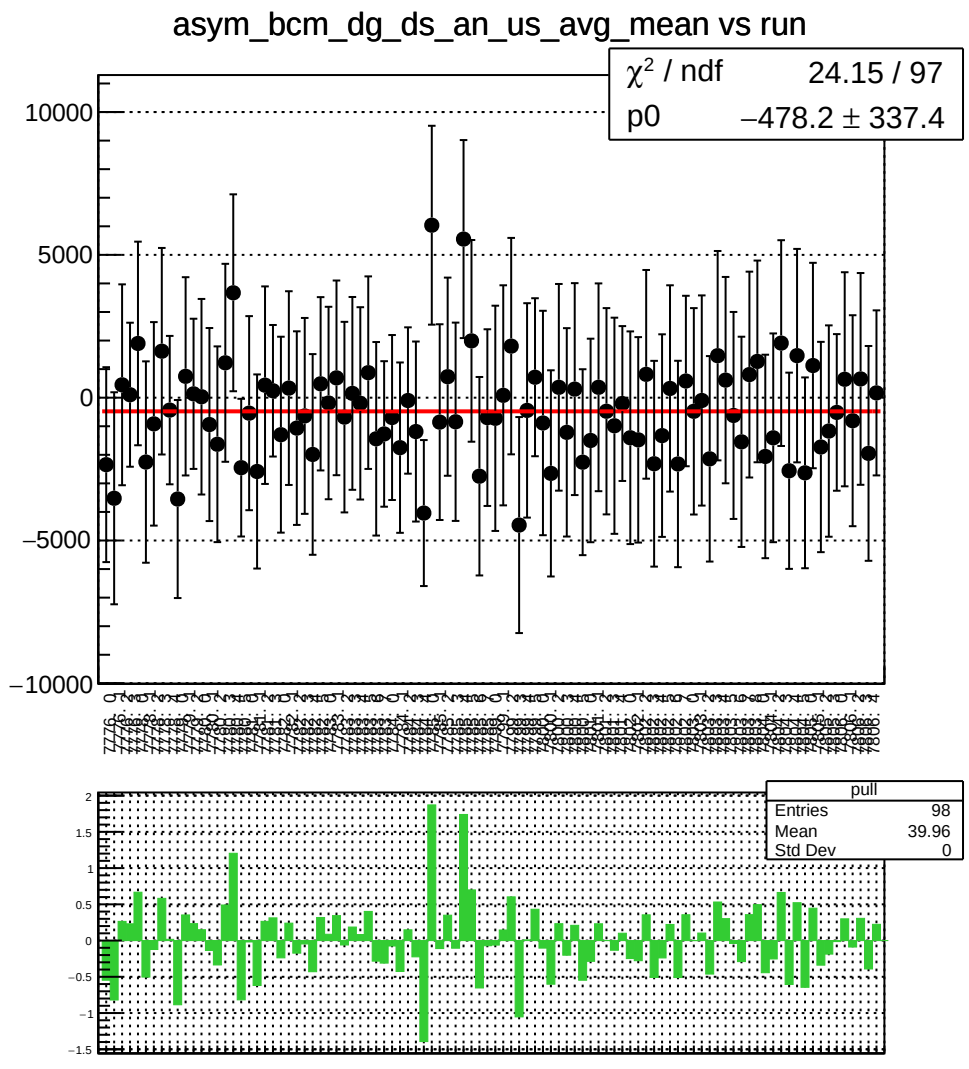

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 24.36 / 97
p0 −491.7 ± 337.9
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 46.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.004992
Std Dev 0.4985
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

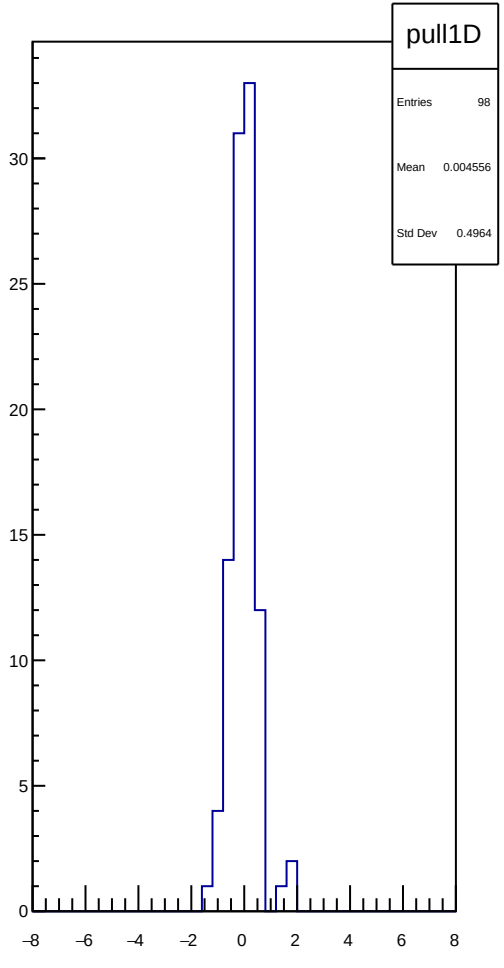

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 9159 / 97
p0 332.2 ± 0.2389
380
360
340
320
300
280
260
240

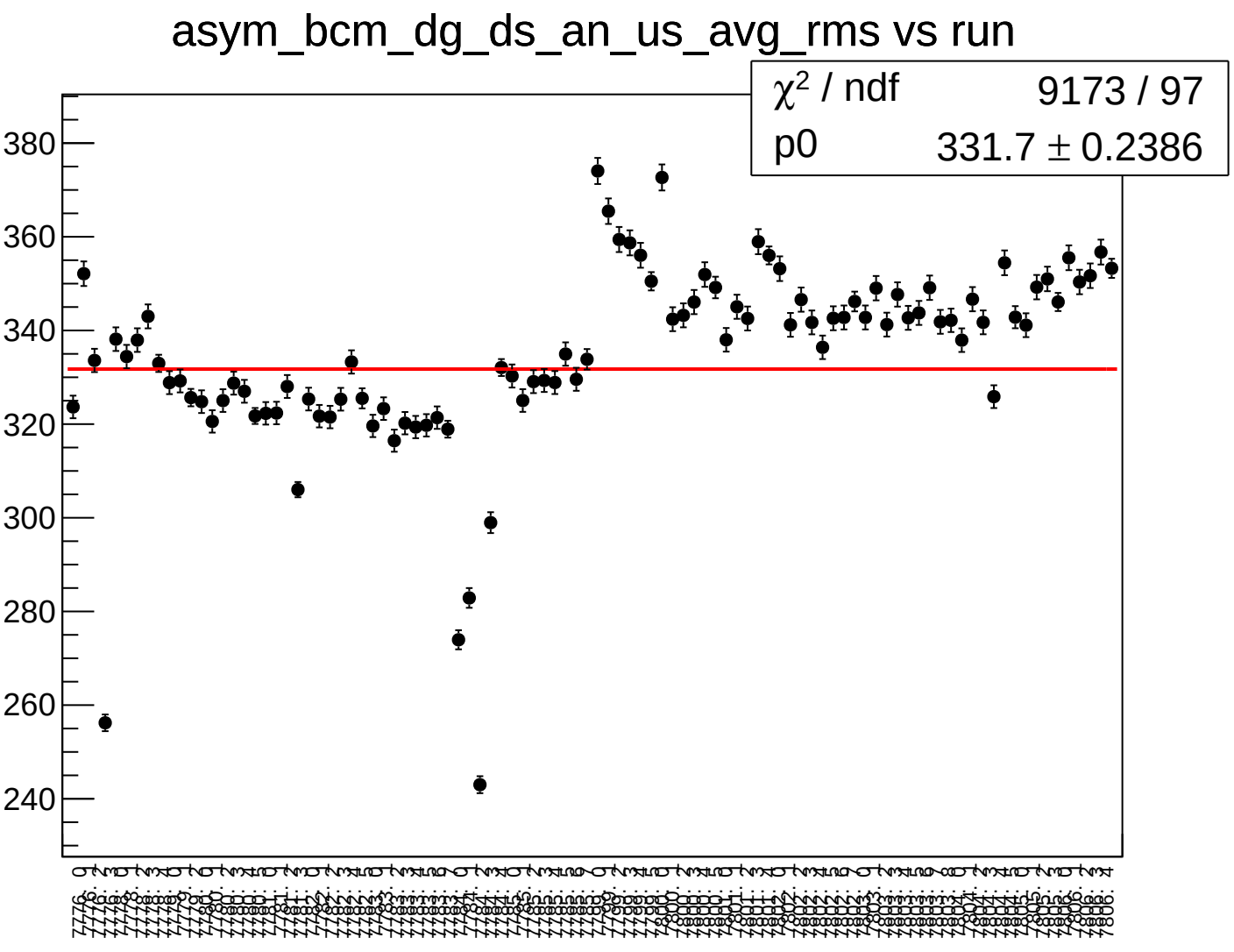

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 96.56 / 97
p0 −33.63 ± 23.11
pull
Entries 98
Mean −263.2
Std Dev 0

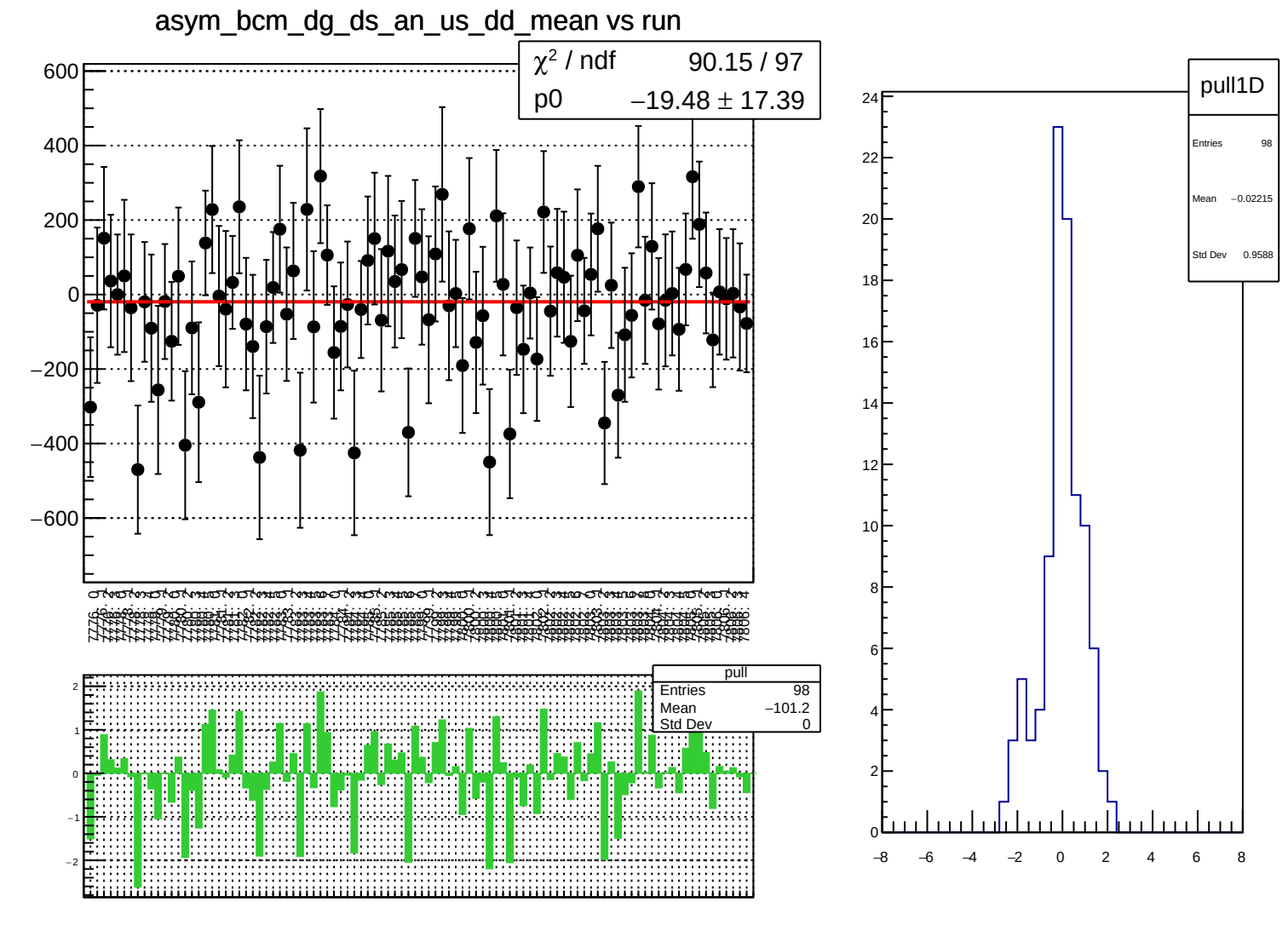

pull1D
Entries 98
Mean −0.009629
Std Dev 0.9926

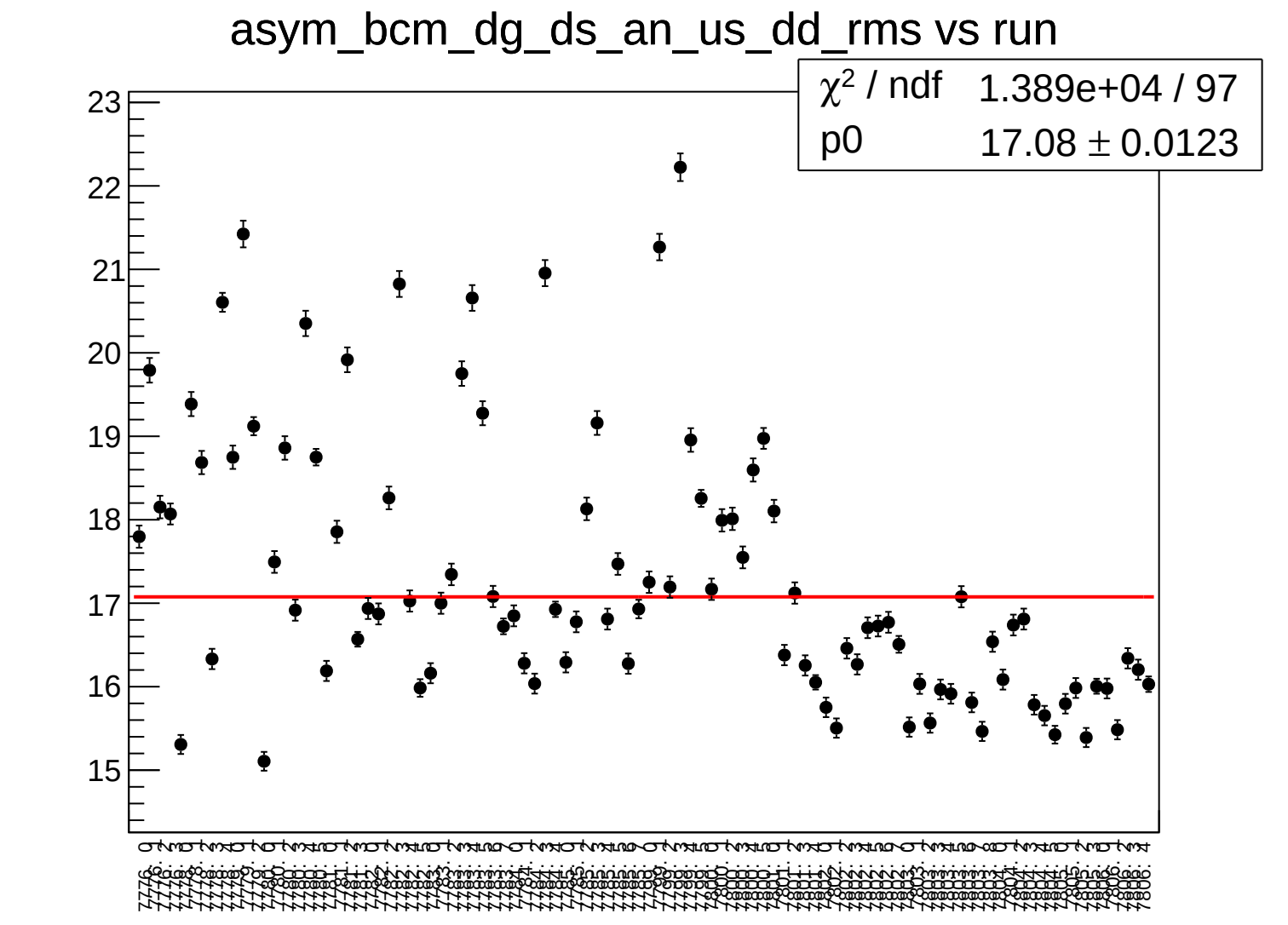

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 7091 / 97
p0 22.74 ± 0.01634
28
27
26
25
24
23
22
21

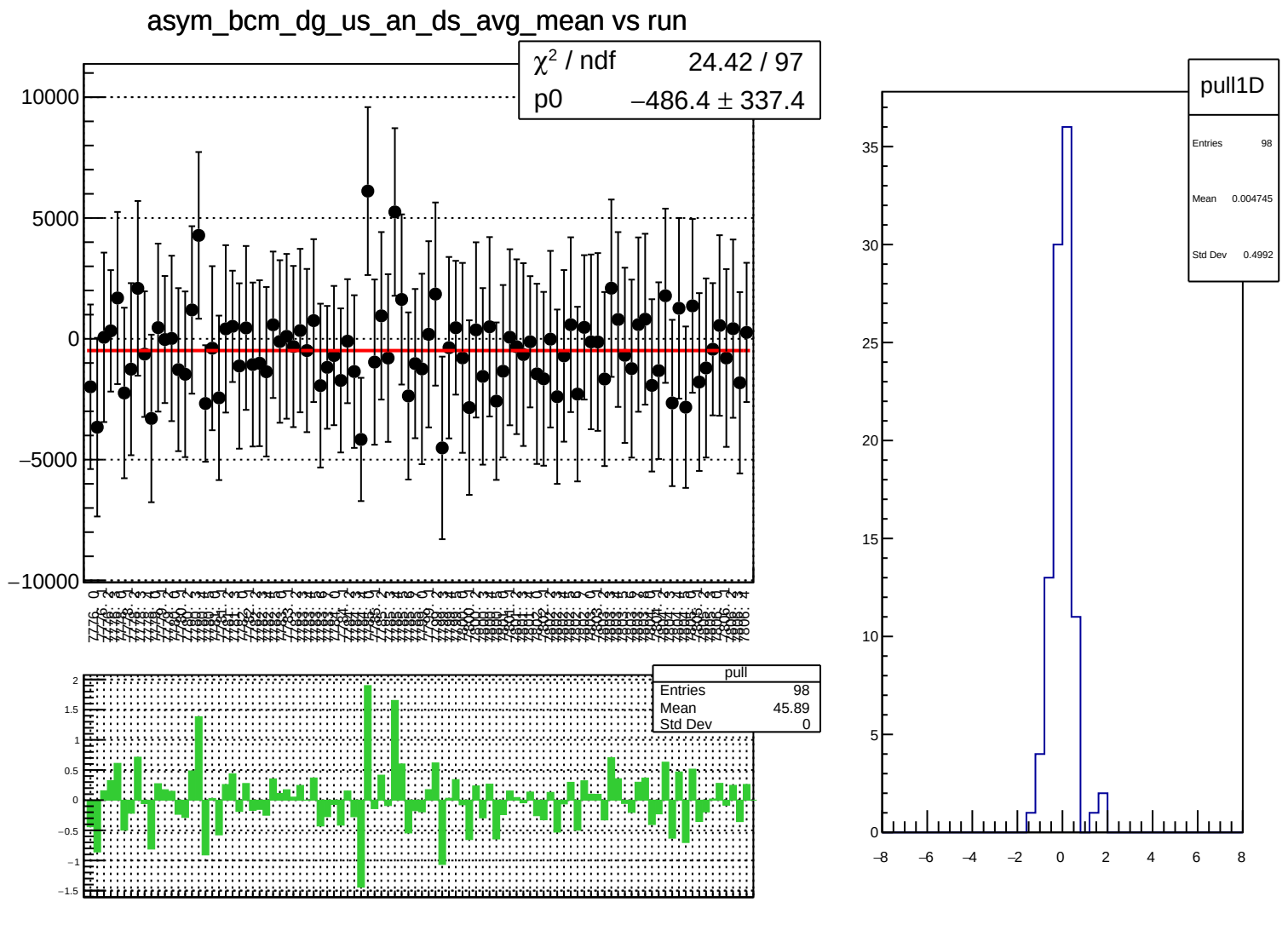

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 24.15 / 97
p0 −478.2 ± 337.4
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 39.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

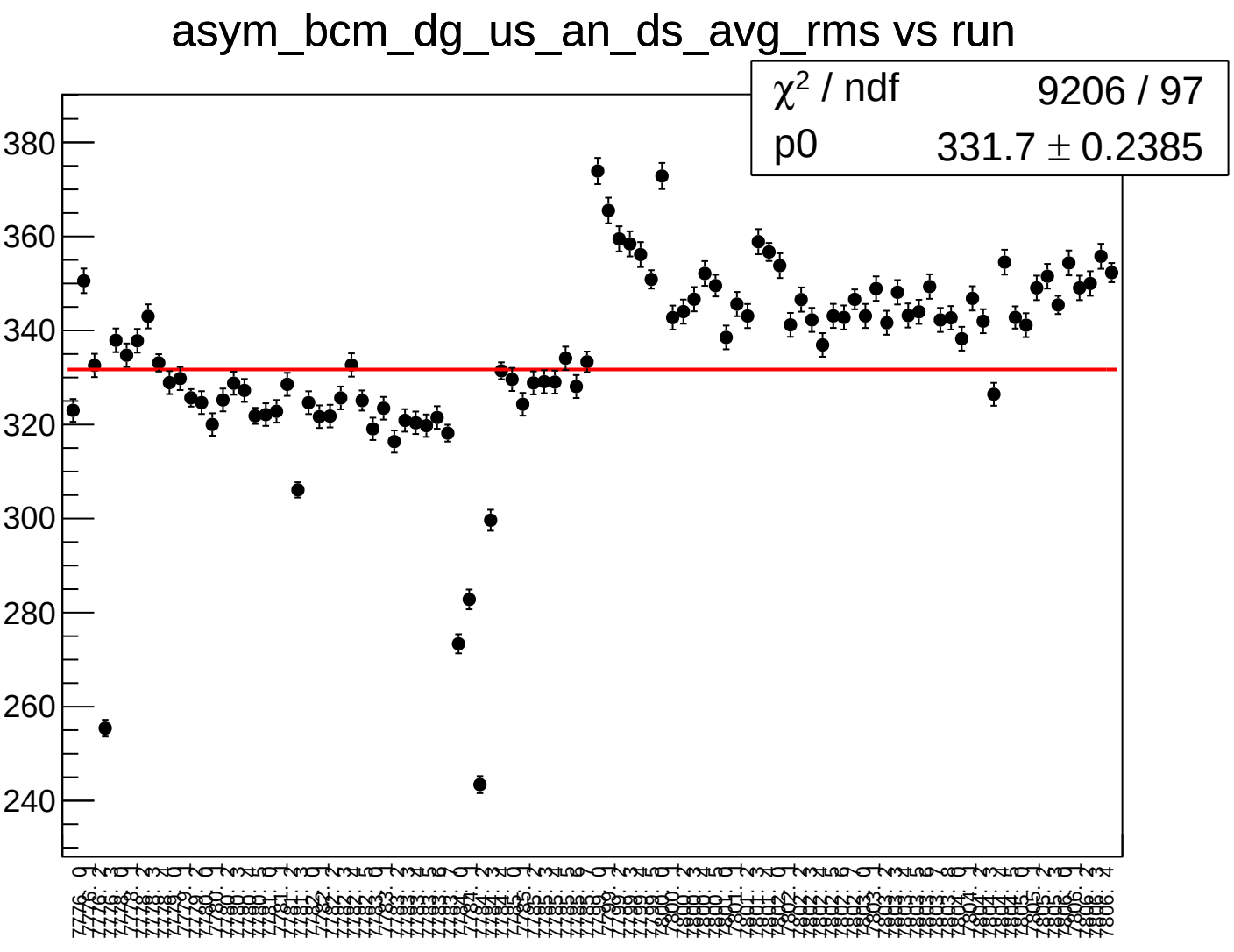

pull1D
Entries 98
Mean 0.004556
Std Dev 0.4964
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

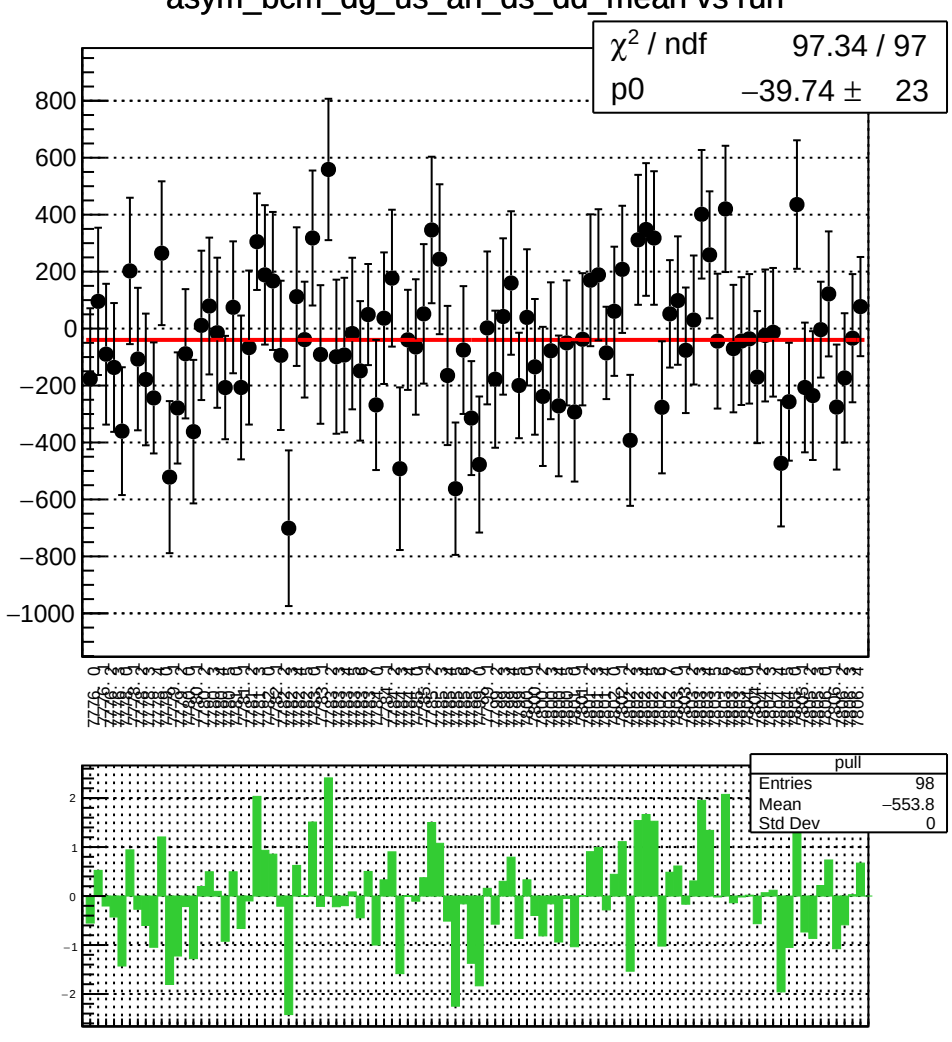

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 9173 / 97
p0 331.7 ± 0.2386
380
360
340
320
300
280
260
240

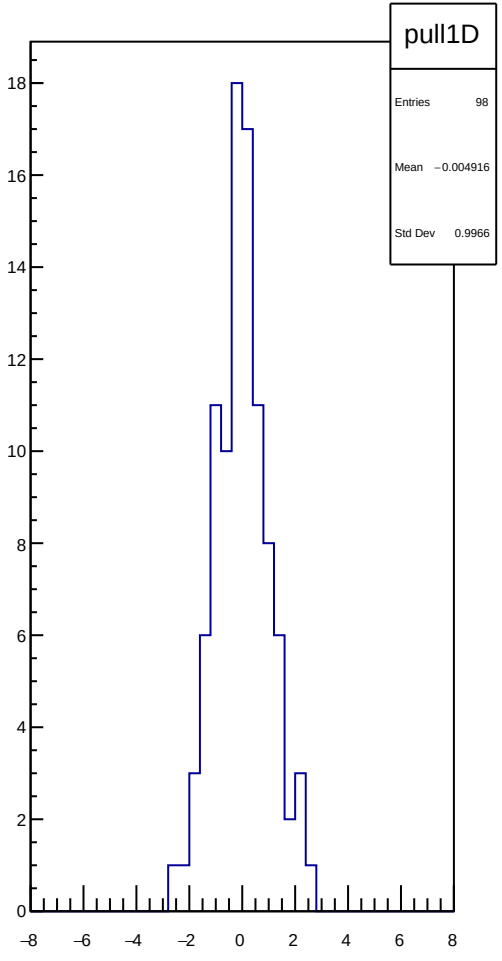

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 90.15 / 97
p0 −19.48 ± 17.39
600
400
200
0
−200
−400
−600
pull
Entries 98
Mean −101.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.02215
Std Dev 0.9588
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

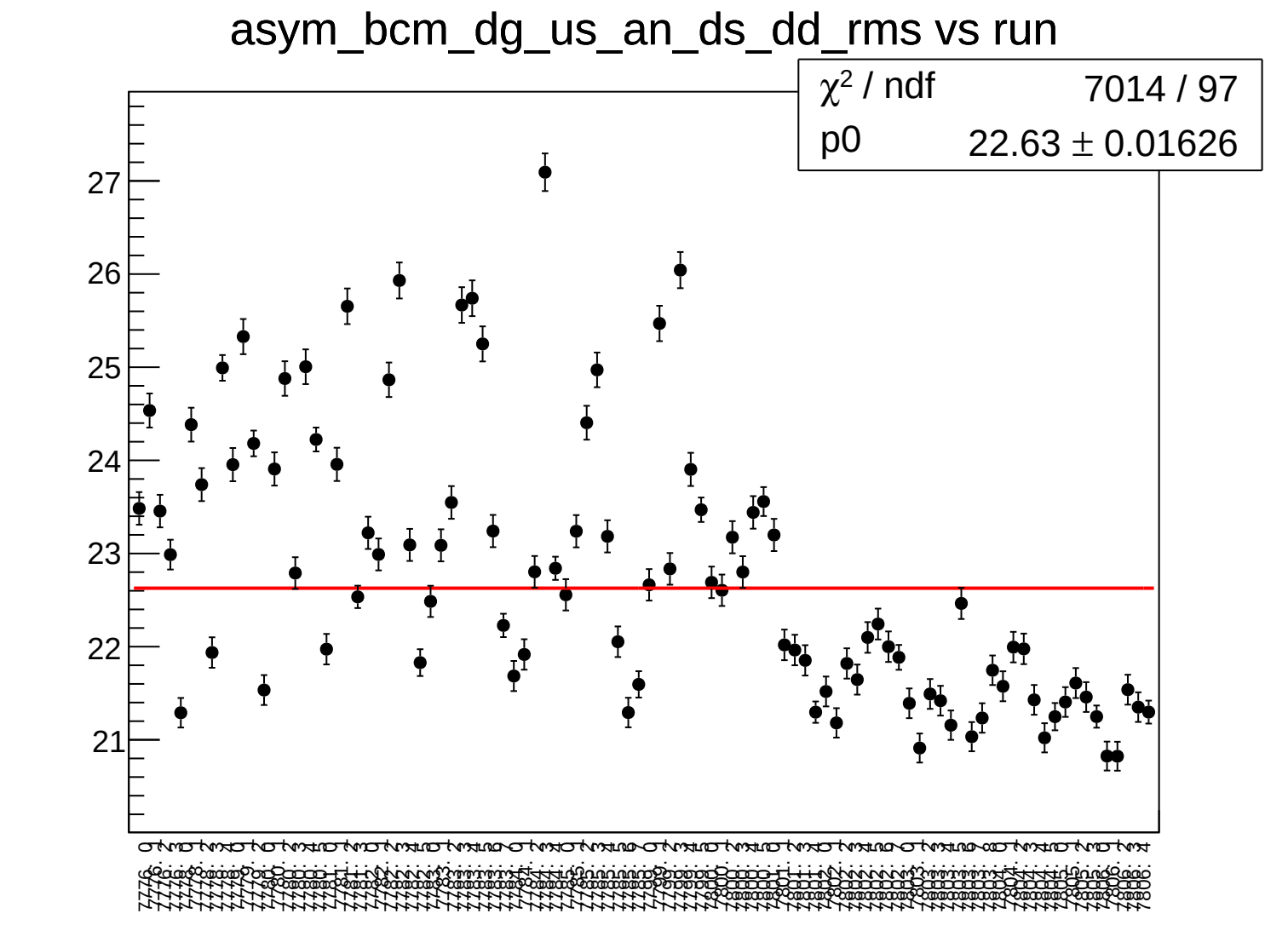

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1.389e+04 / 97
p0 17.08 ± 0.0123
23
22
21
20
19
18
17
16
15

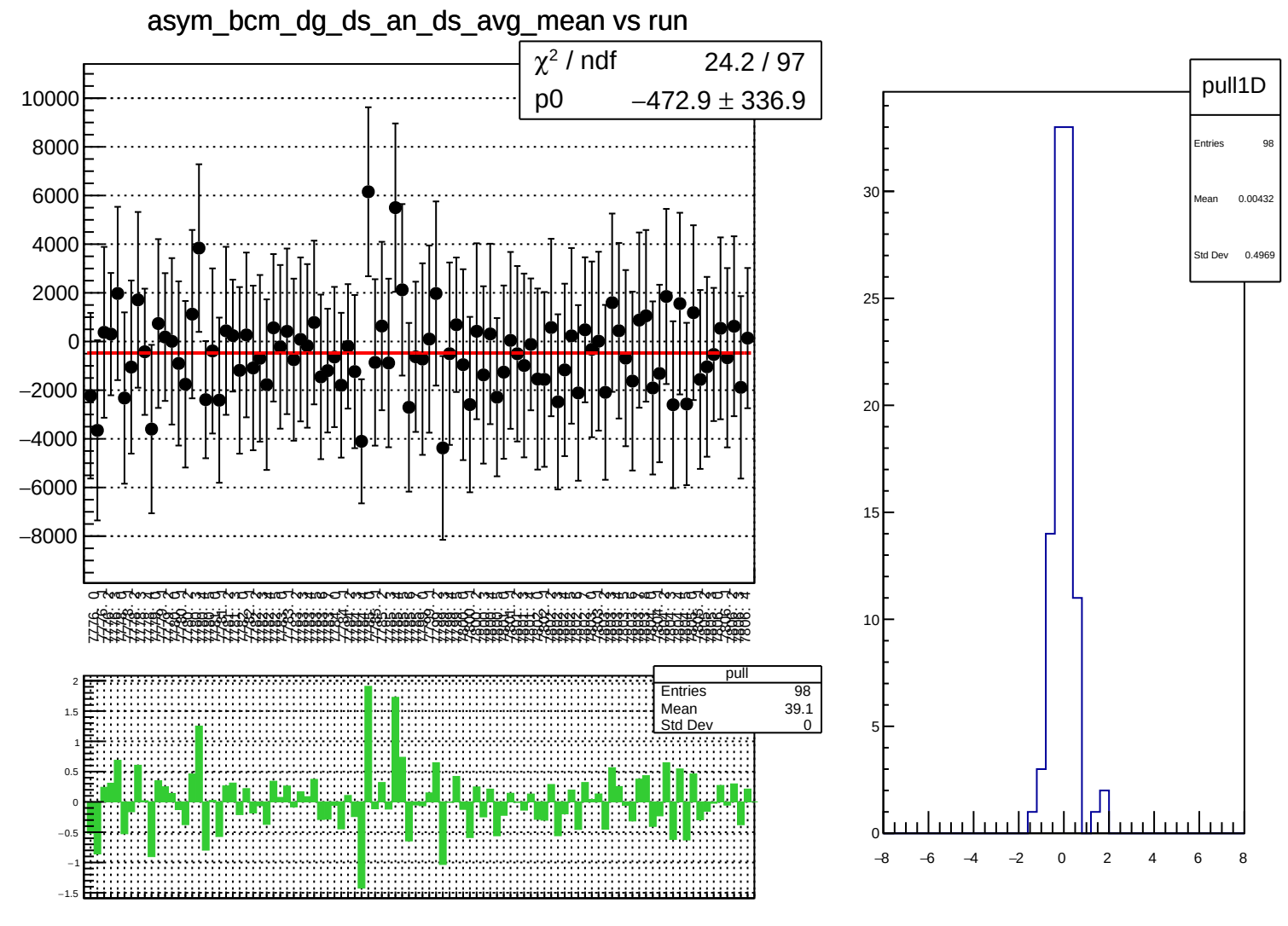

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 24.42 / 97
p0 −486.4 ± 337.4
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 45.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.004745
Std Dev 0.4992
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

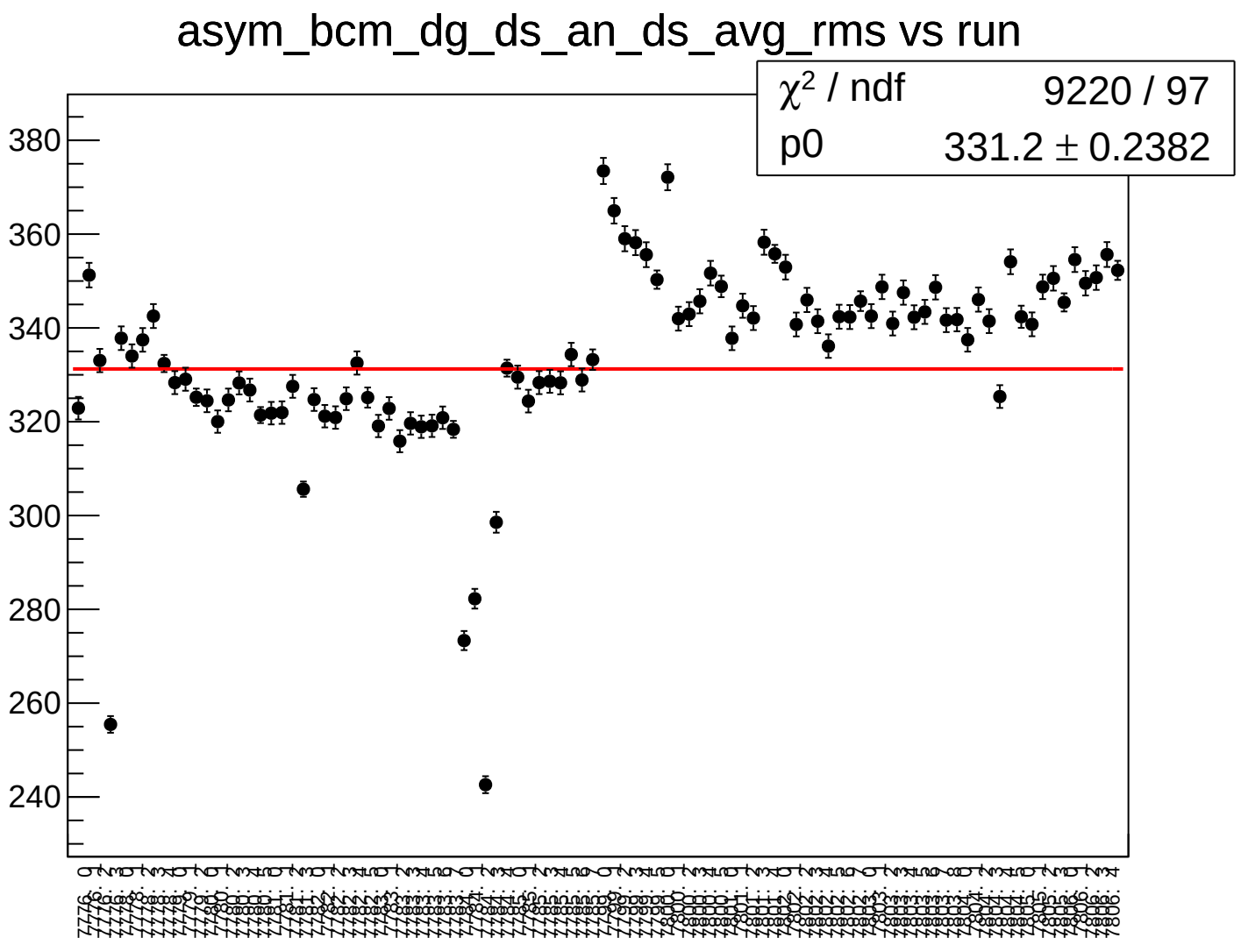

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 9206 / 97
p0 331.7 ± 0.2385
380
360
340
320
300
280
260
240

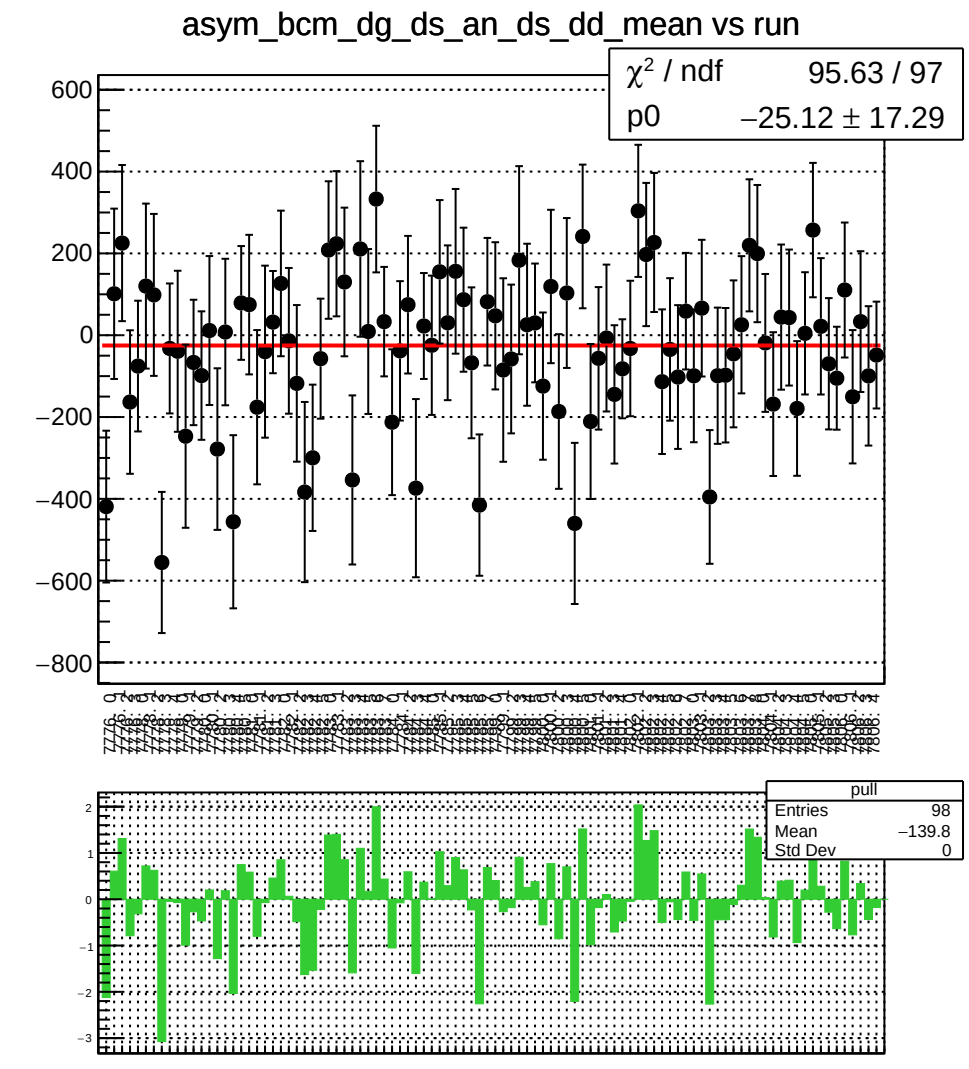

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 97.34 / 97
p0 −39.74 ± 23
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 98
Mean −553.8
Std Dev 0
2
1
0
−1
−2

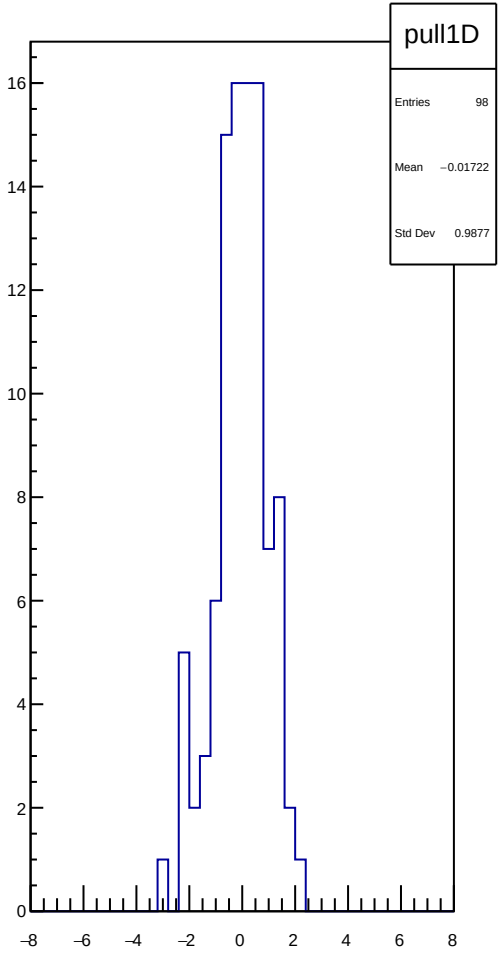

pull1D
Entries 98
Mean −0.004916
Std Dev 0.9966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

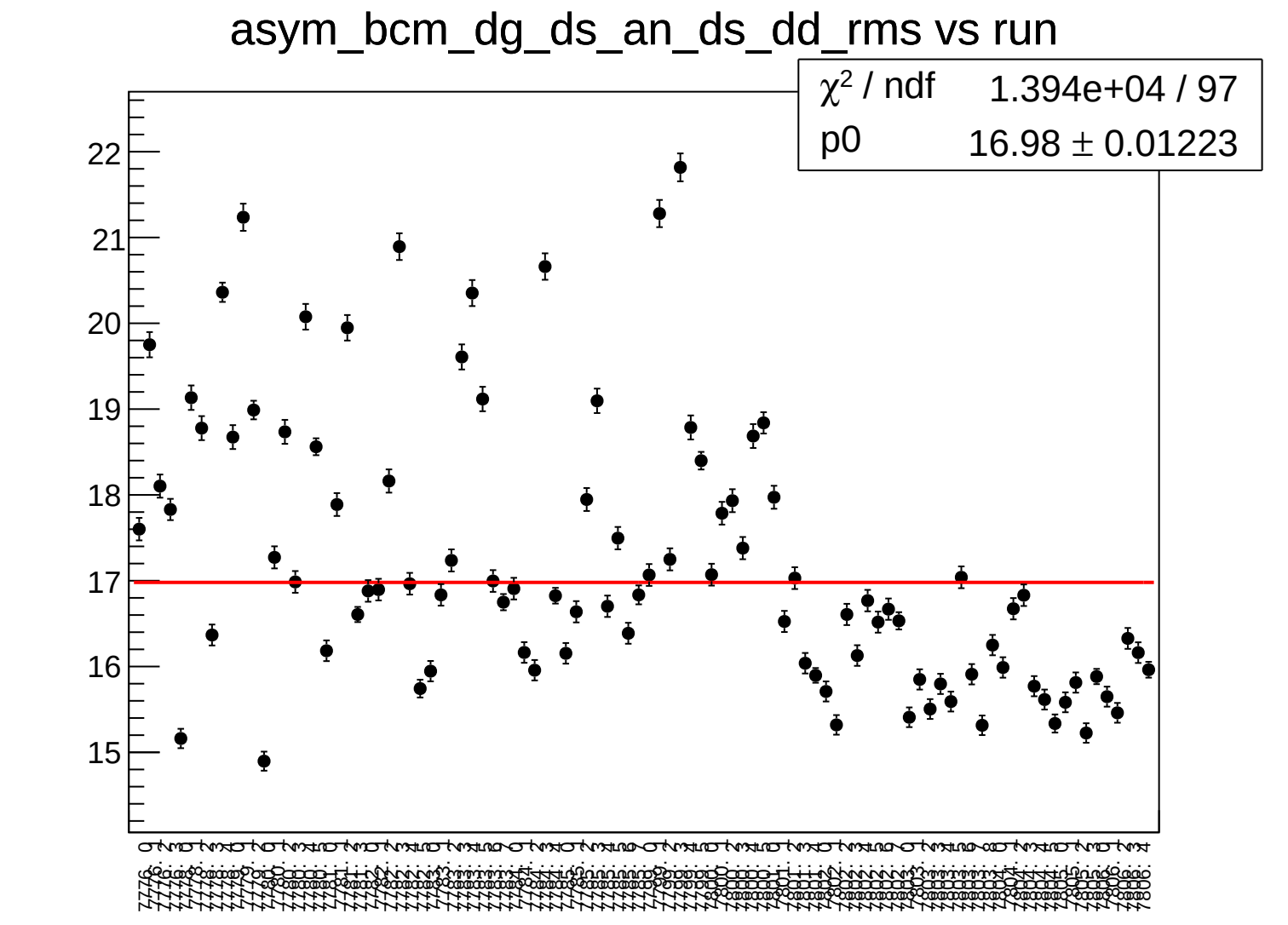

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 7014 / 97
p0 22.63 ± 0.01626
27
26
25
24
23
22
21

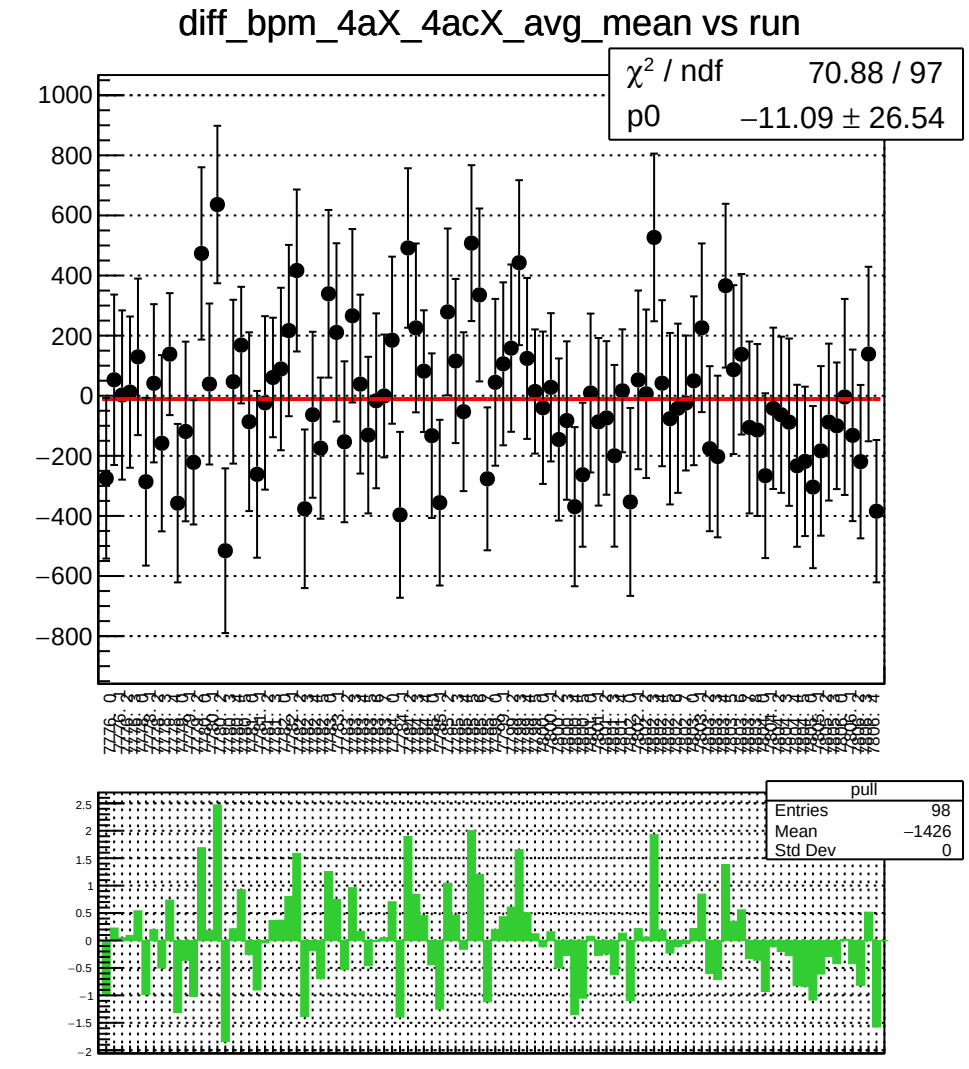

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 24.2 / 97
p0 −472.9 ± 336.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 98
Mean 39.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.00432
Std Dev 0.4969
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

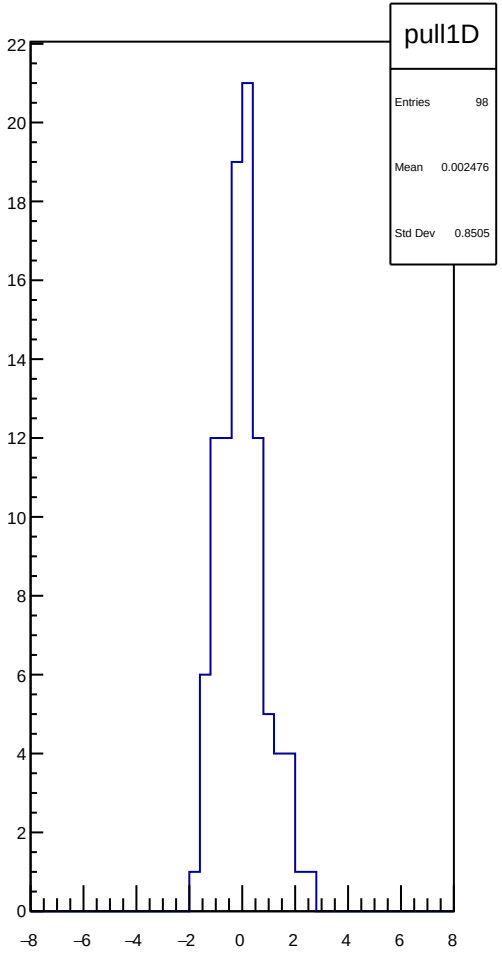

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 9220 / 97
p0 331.2 ± 0.2382
380
360
340
320
300
280
260
240

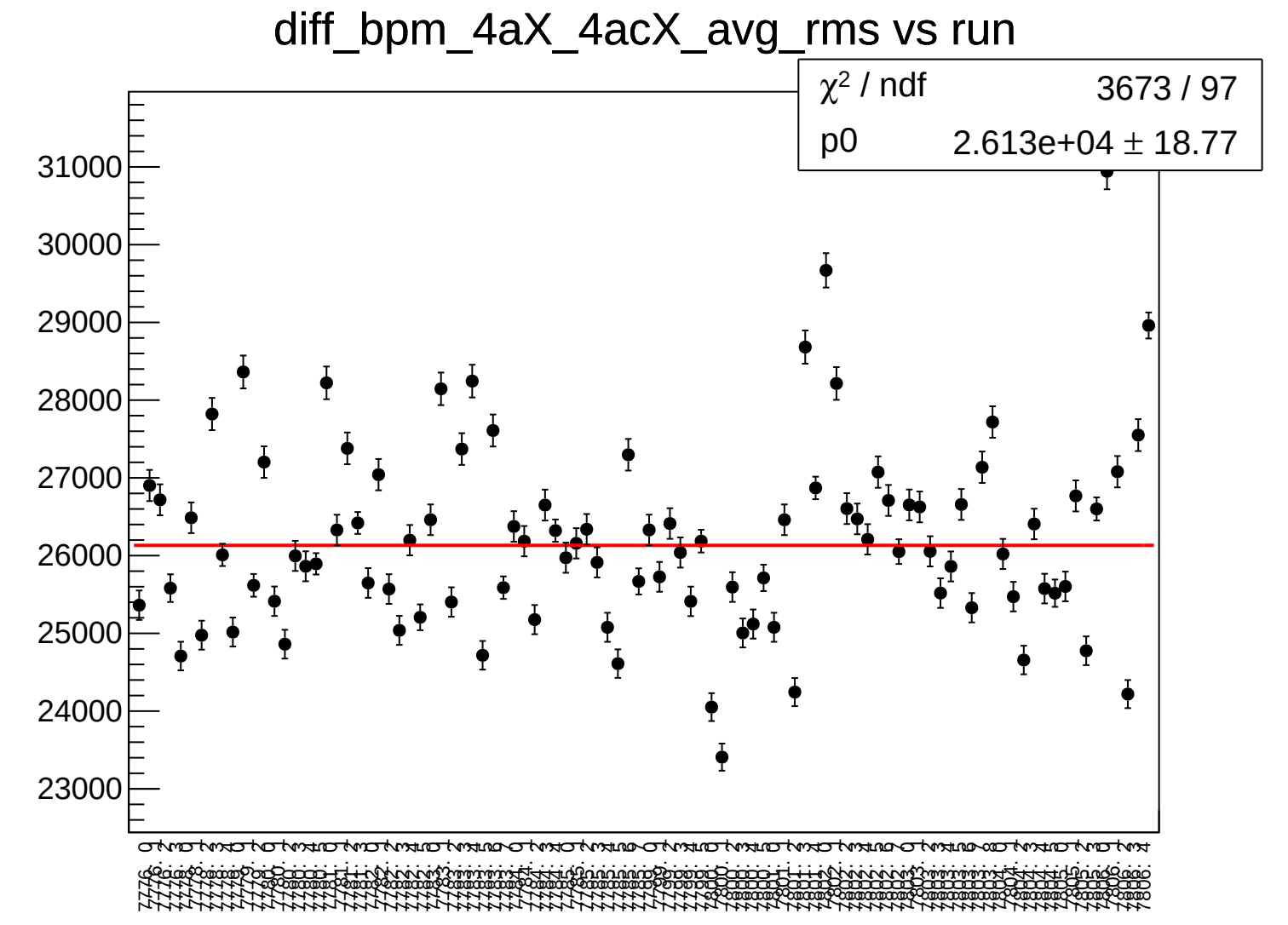

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 95.63 / 97
p0 −25.12 ± 17.29
pull
Entries 98
Mean −139.8
Std Dev 0

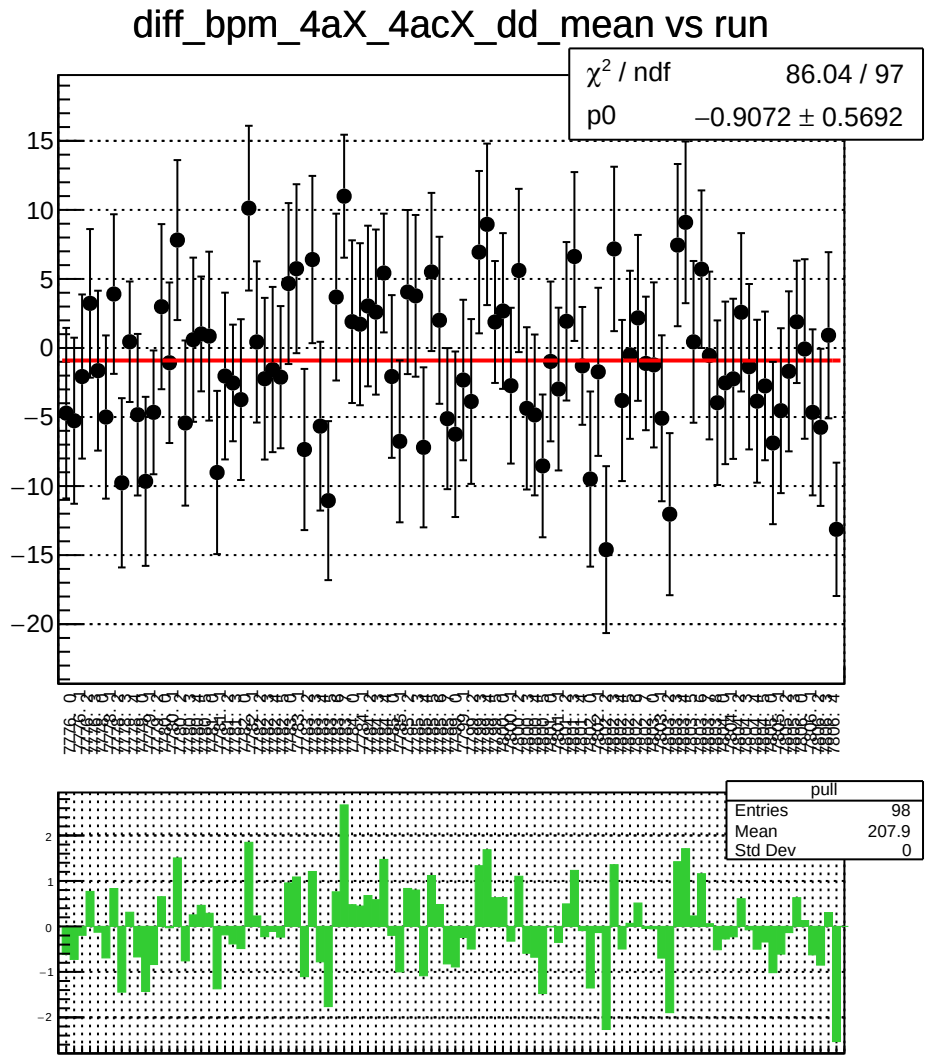

pull1D
Entries 98
Mean −0.01722
Std Dev 0.9877

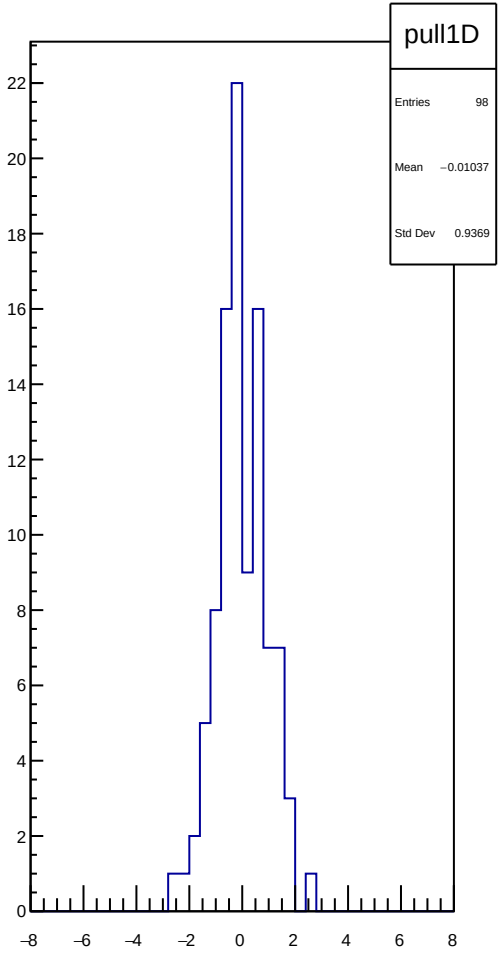

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1.394e+04 / 97
p0 16.98 ± 0.01223
22
21
20
19
18
17
16
15

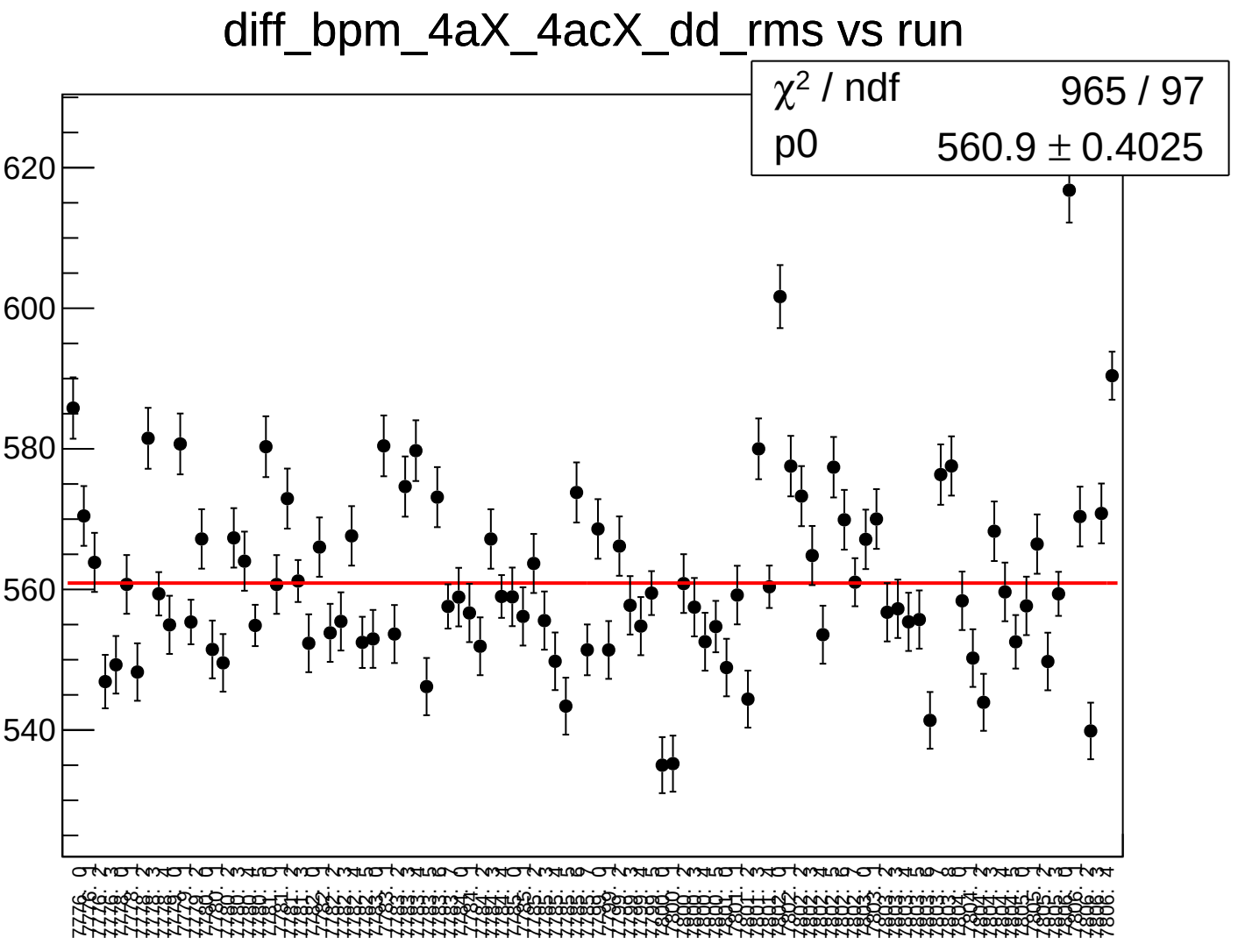

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 70.88 / 97
p0 −11.09 ± 26.54
pull
Entries 98
Mean −1426
Std Dev 0

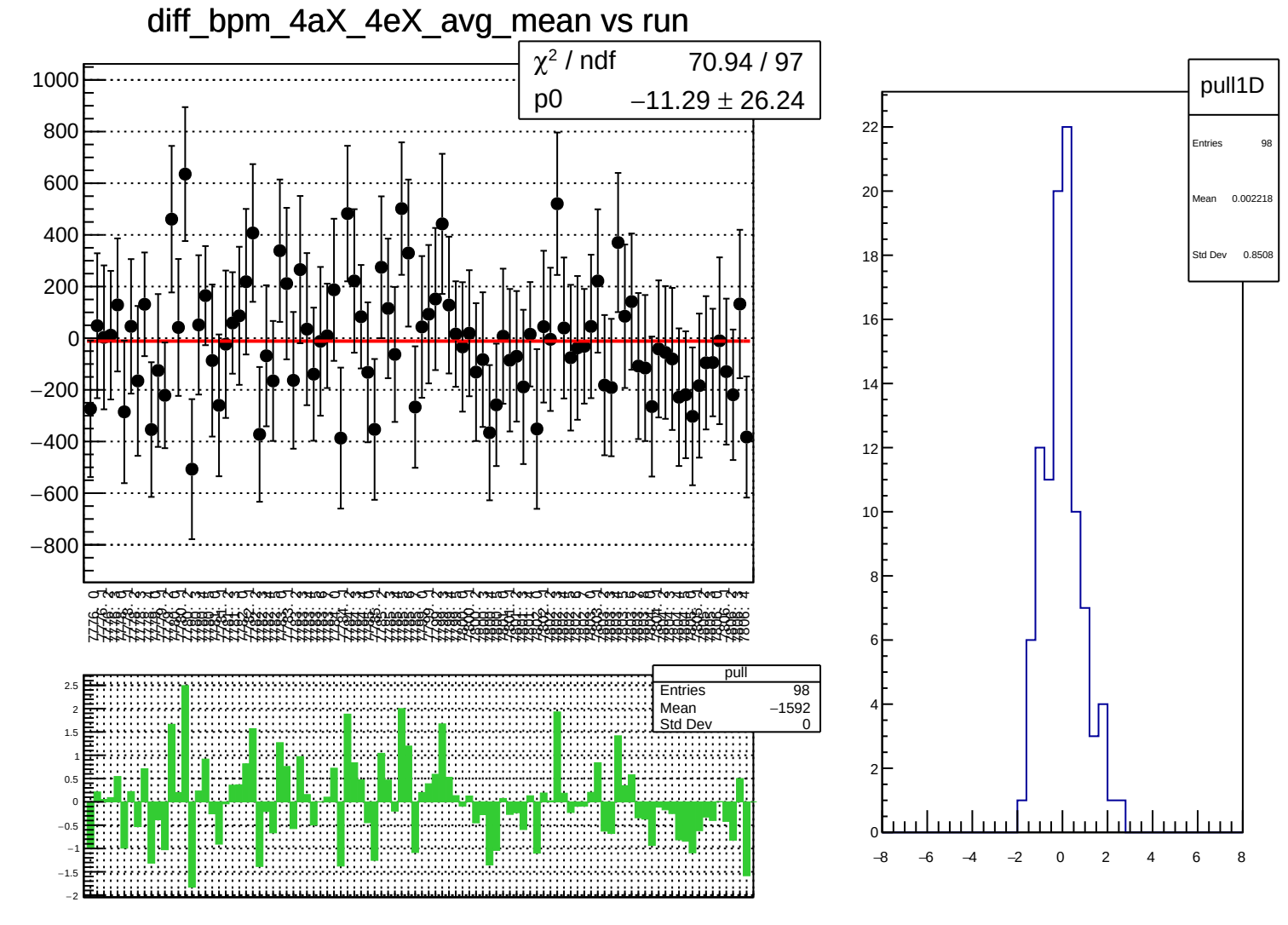

pull1D
Entries 98
Mean 0.002476
Std Dev 0.8505

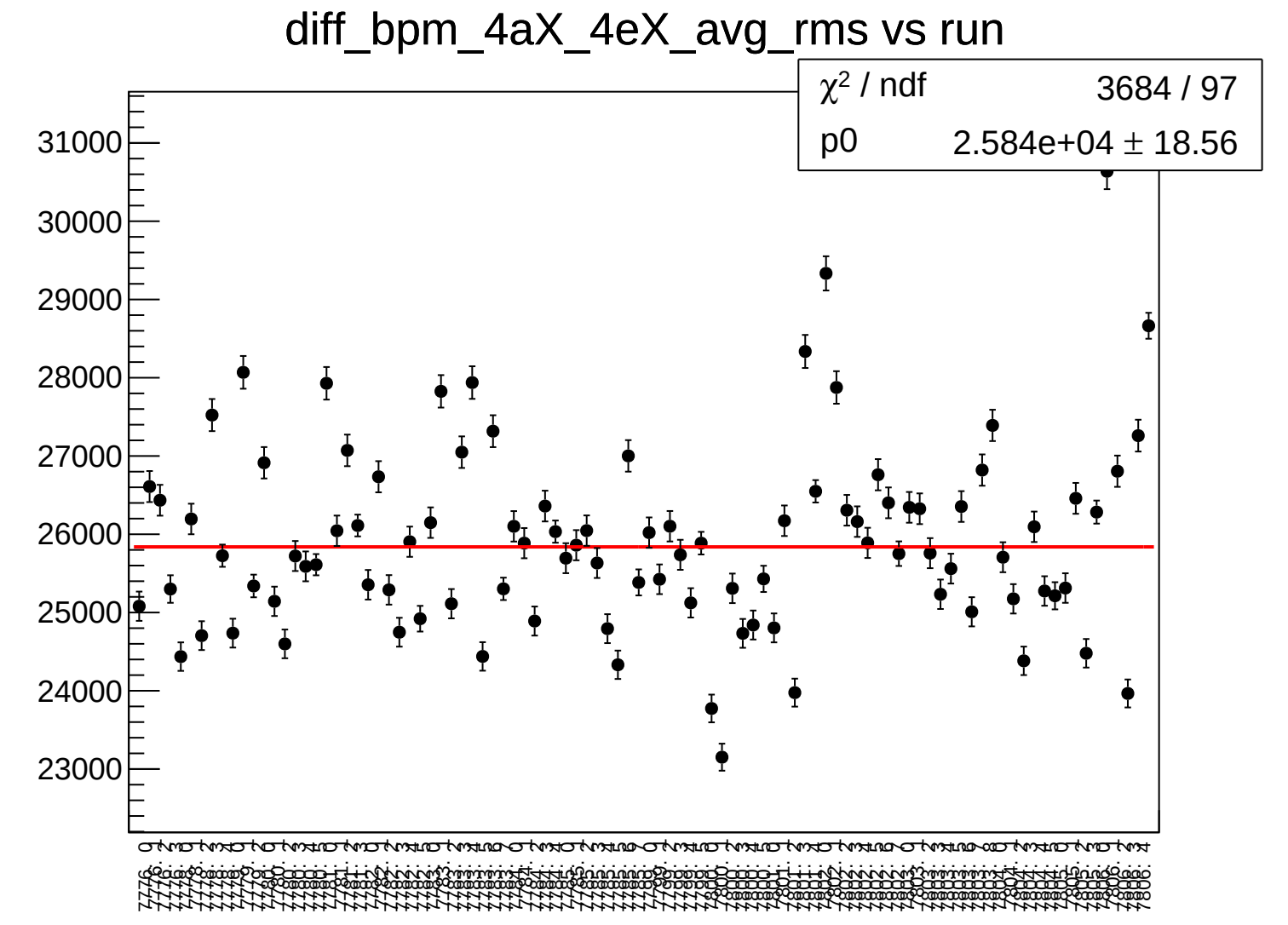

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 3673 / 97
p0 2.613e+04 ± 18.77
31000
30000
29000
28000
27000
26000
25000
24000
23000

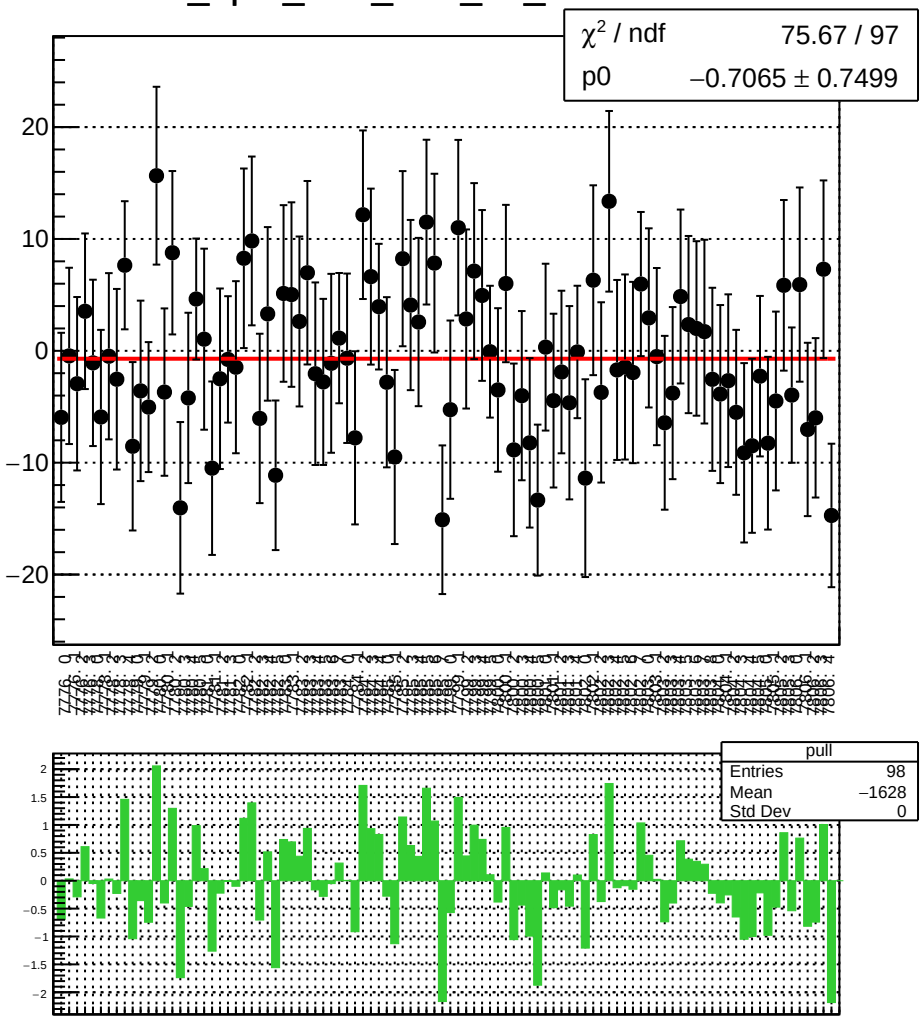

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 86.04 / 97
p0 −0.9072 ± 0.5692
pull
Entries 98
Mean 207.9
Std Dev 0

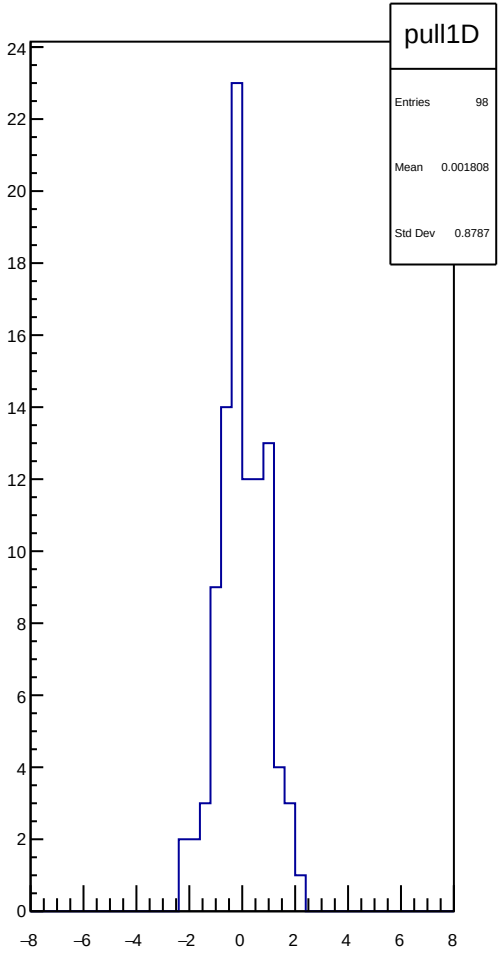

pull1D
Entries 98
Mean −0.01037
Std Dev 0.9369

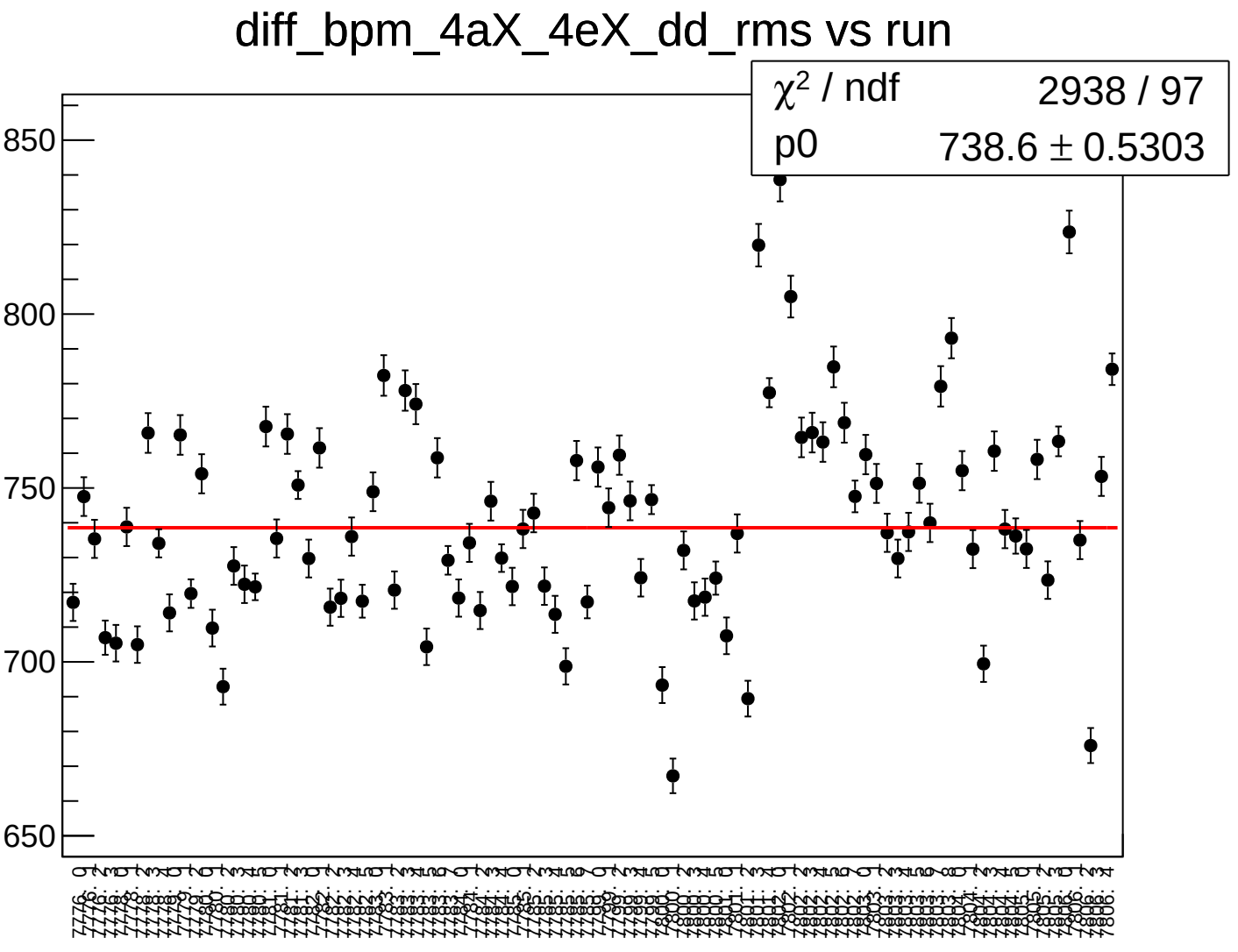

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 965 / 97
p0 560.9 ± 0.4025
620
600
580
560
540

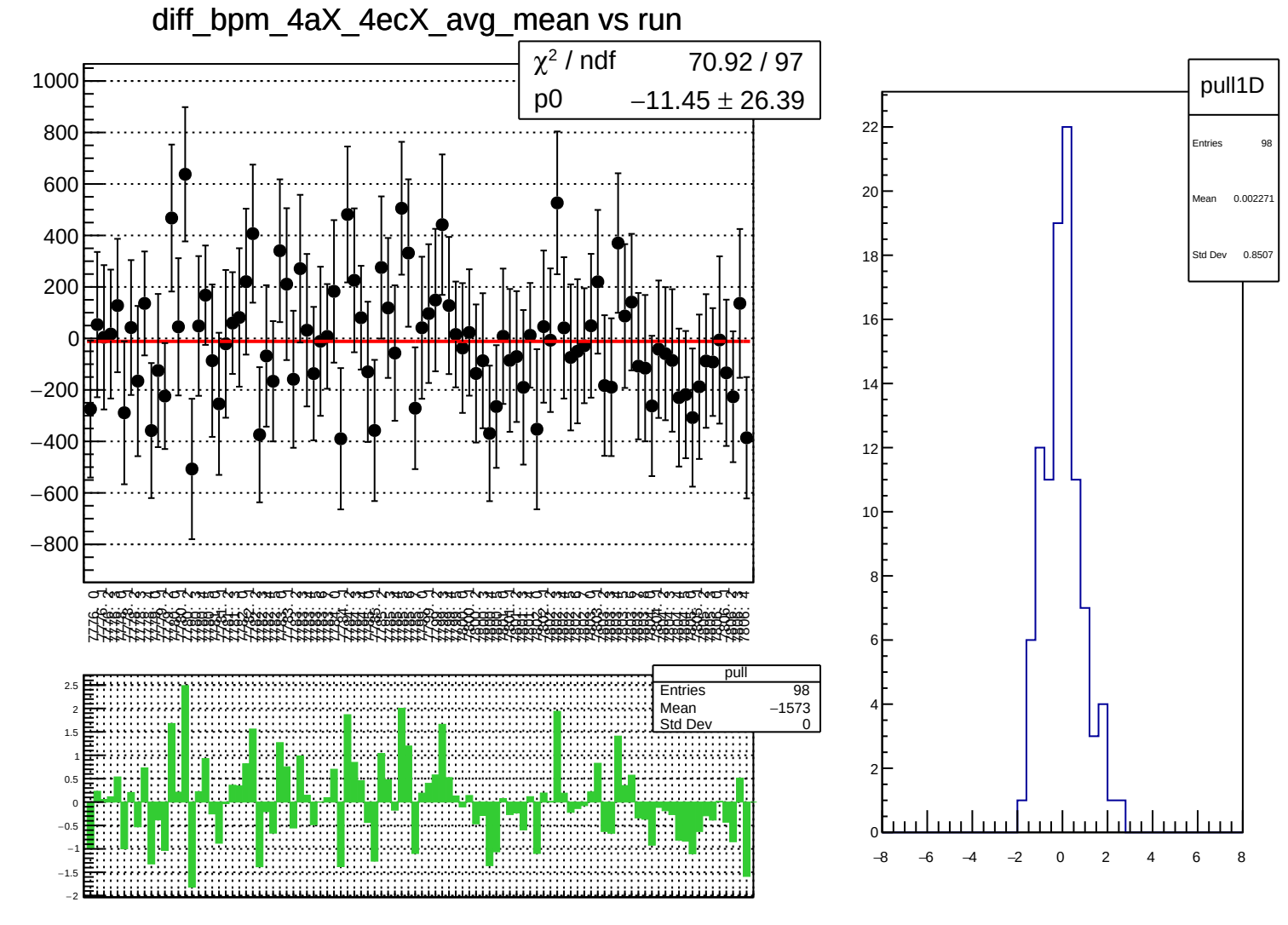

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 70.94 / 97
p0 −11.29 ± 26.24
pull
Entries 98
Mean −1592
Std Dev 0
pull1D
Entries 98
Mean 0.002218
Std Dev 0.8508

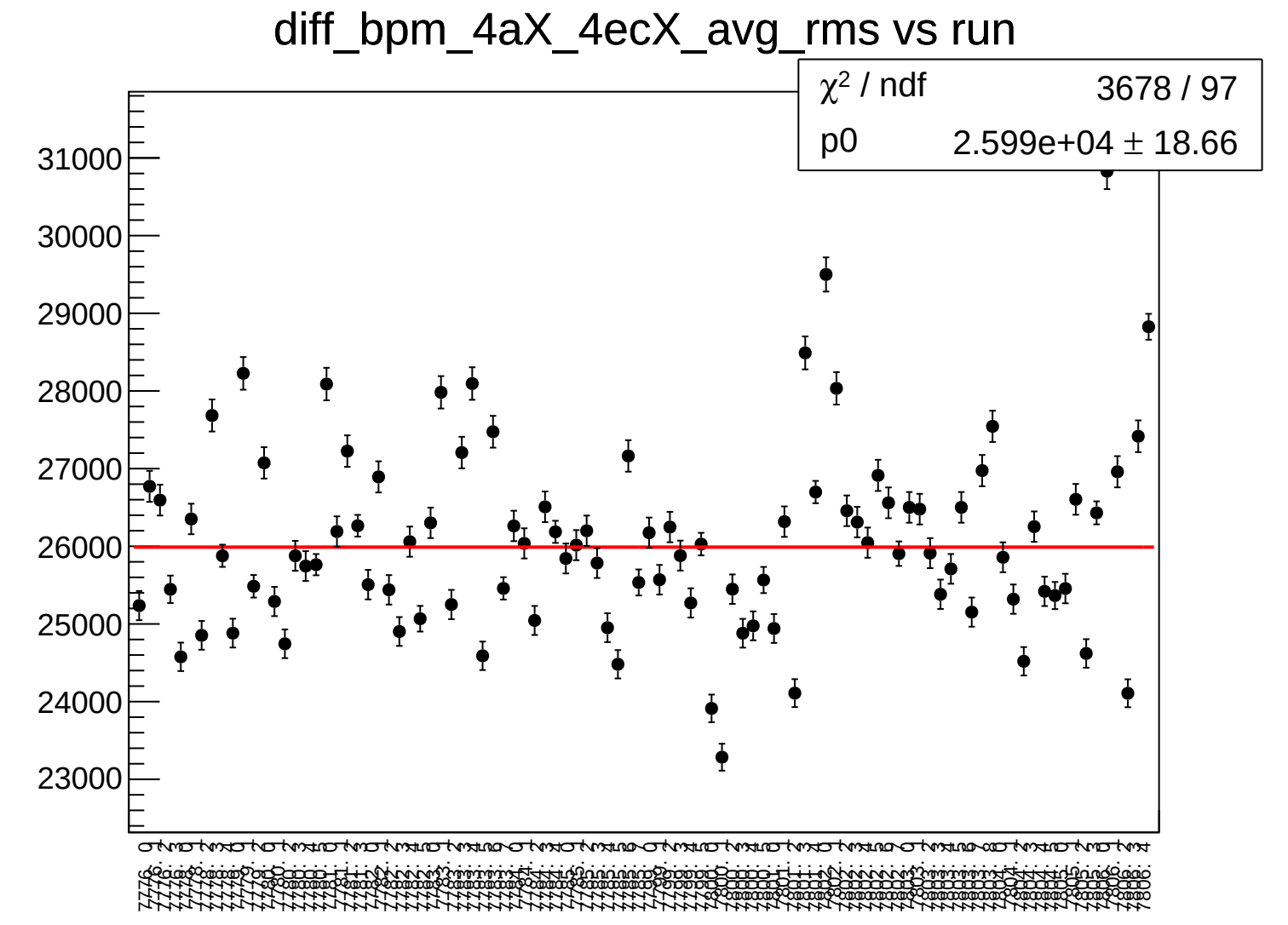

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 3684 / 97
p0 2.584e+04 ± 18.56
31000
30000
29000
28000
27000
26000
25000
24000
23000

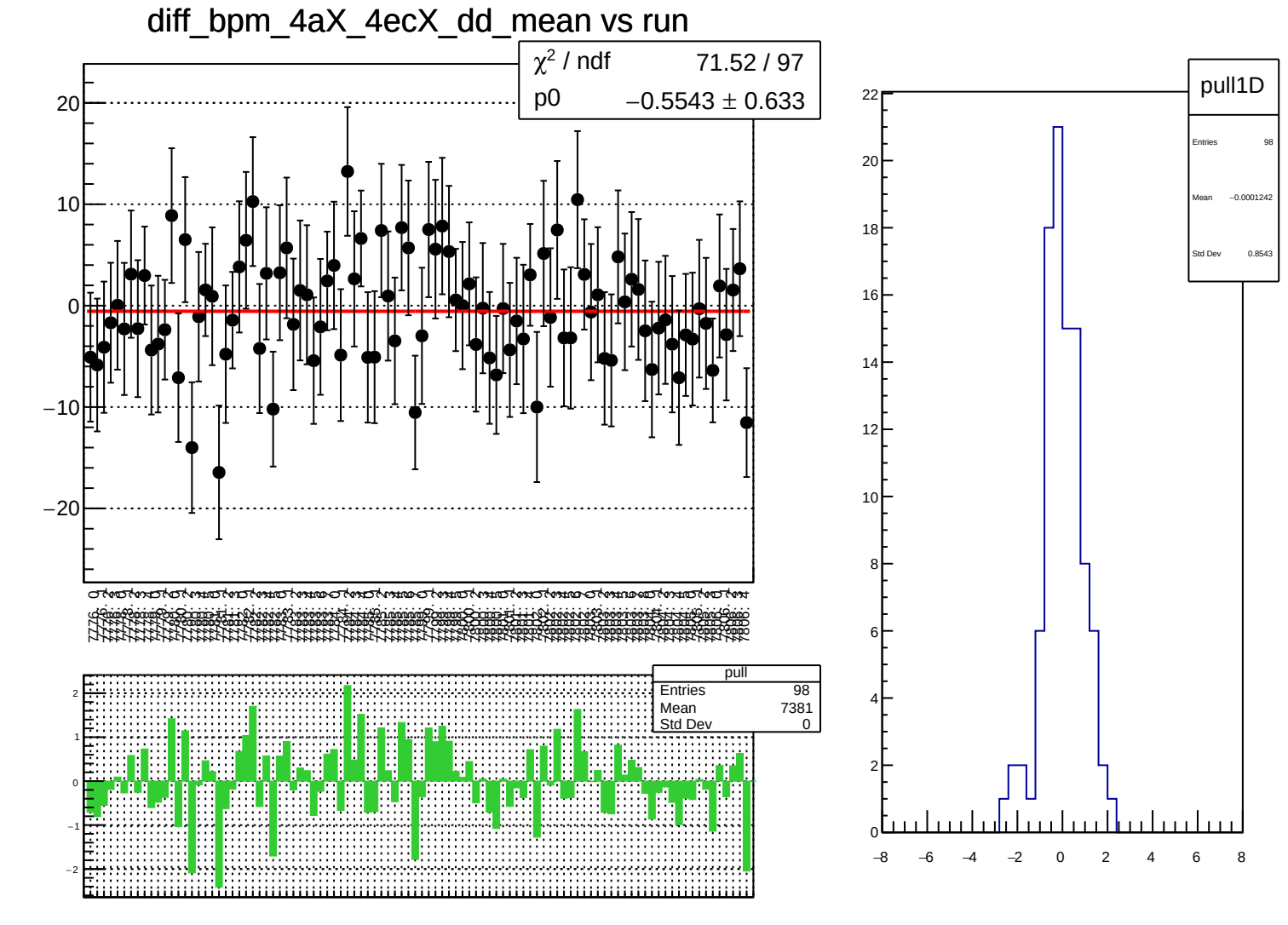

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 75.67 / 97
p0 −0.7065 ± 0.7499
pull
Entries 98
Mean −1628
Std Dev 0

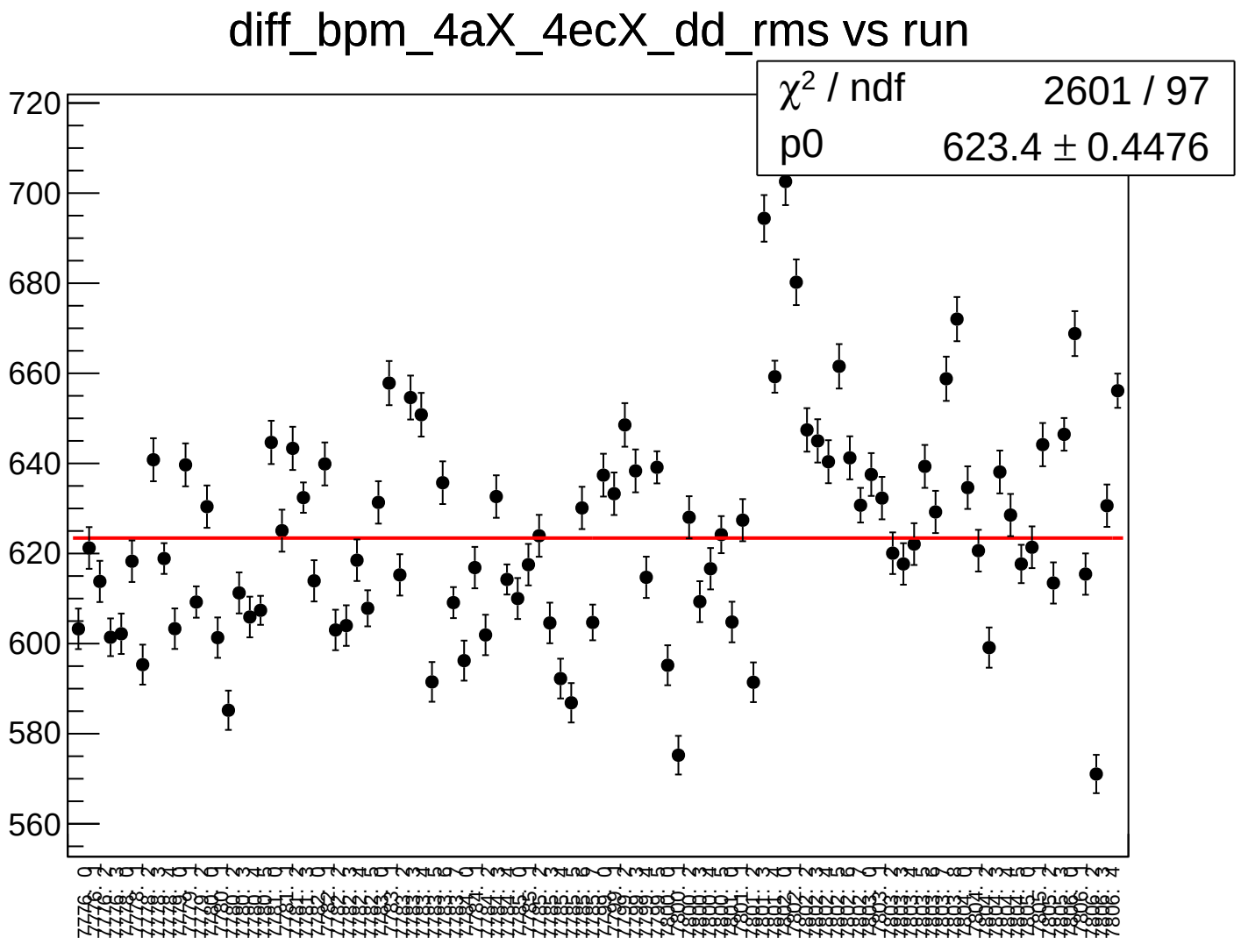

pull1D
Entries 98
Mean 0.001808
Std Dev 0.8787

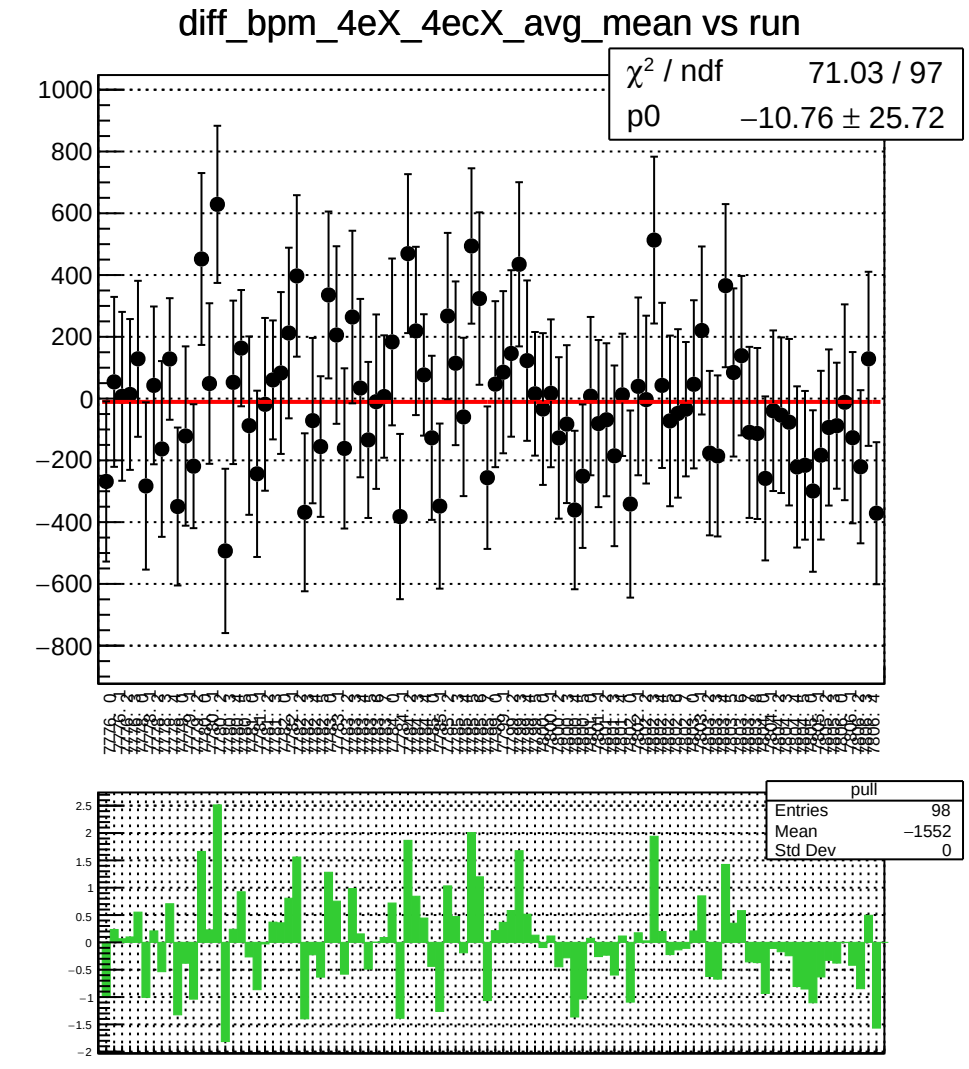

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2938 / 97
p0 738.6 ± 0.5303
850
800
750
700
650

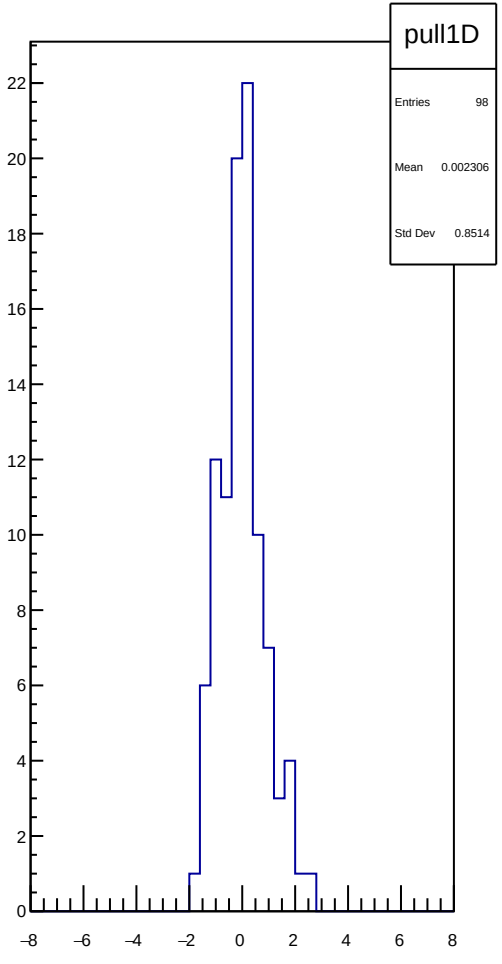

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 70.92 / 97
p0 −11.45 ± 26.39
pull
Entries 98
Mean −1573
Std Dev 0
pull1D
Entries 98
Mean 0.002271
Std Dev 0.8507

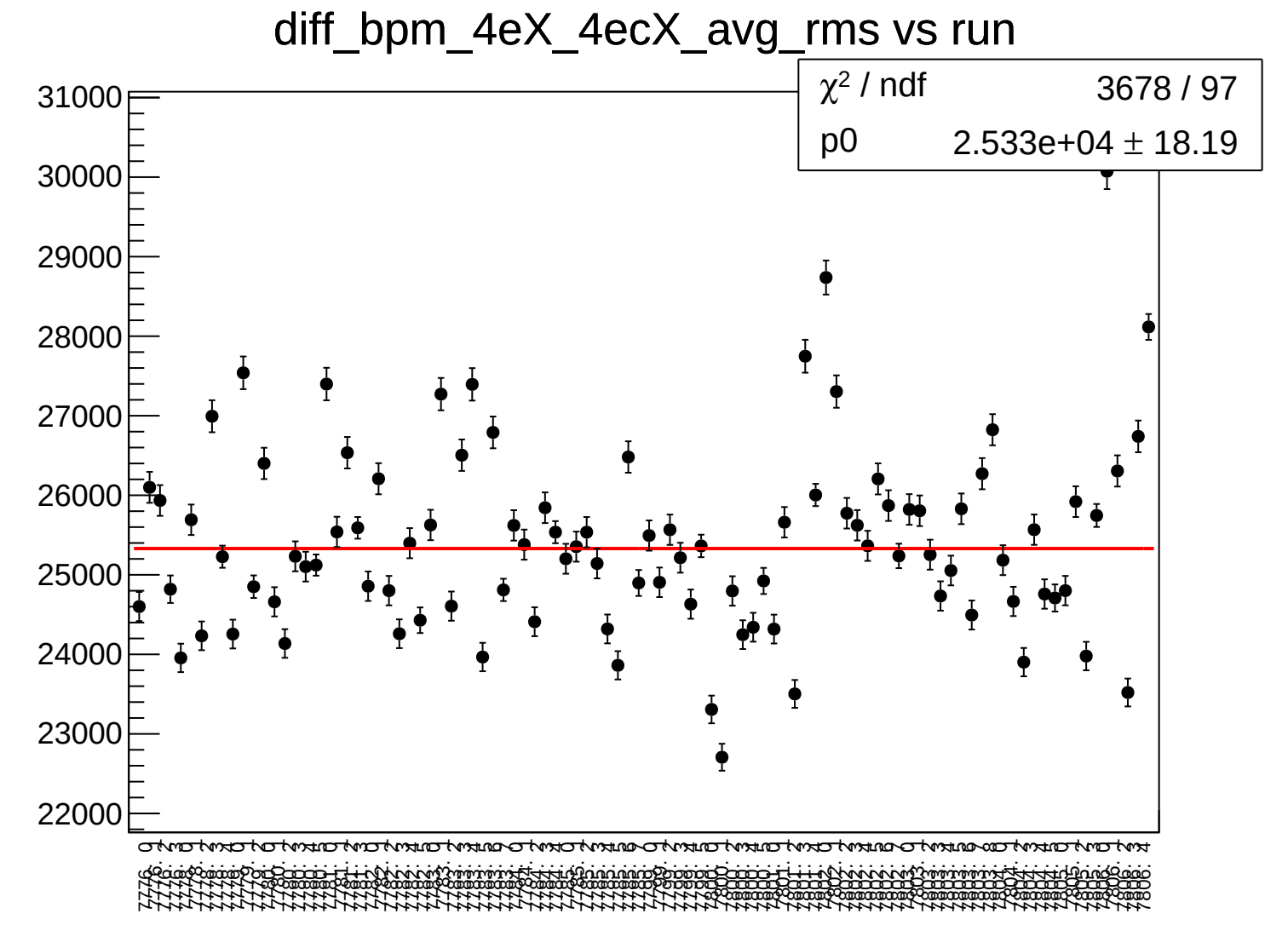

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 3678 / 97
p0 2.599e+04 ± 18.66
31000
30000
29000
28000
27000
26000
25000
24000
23000

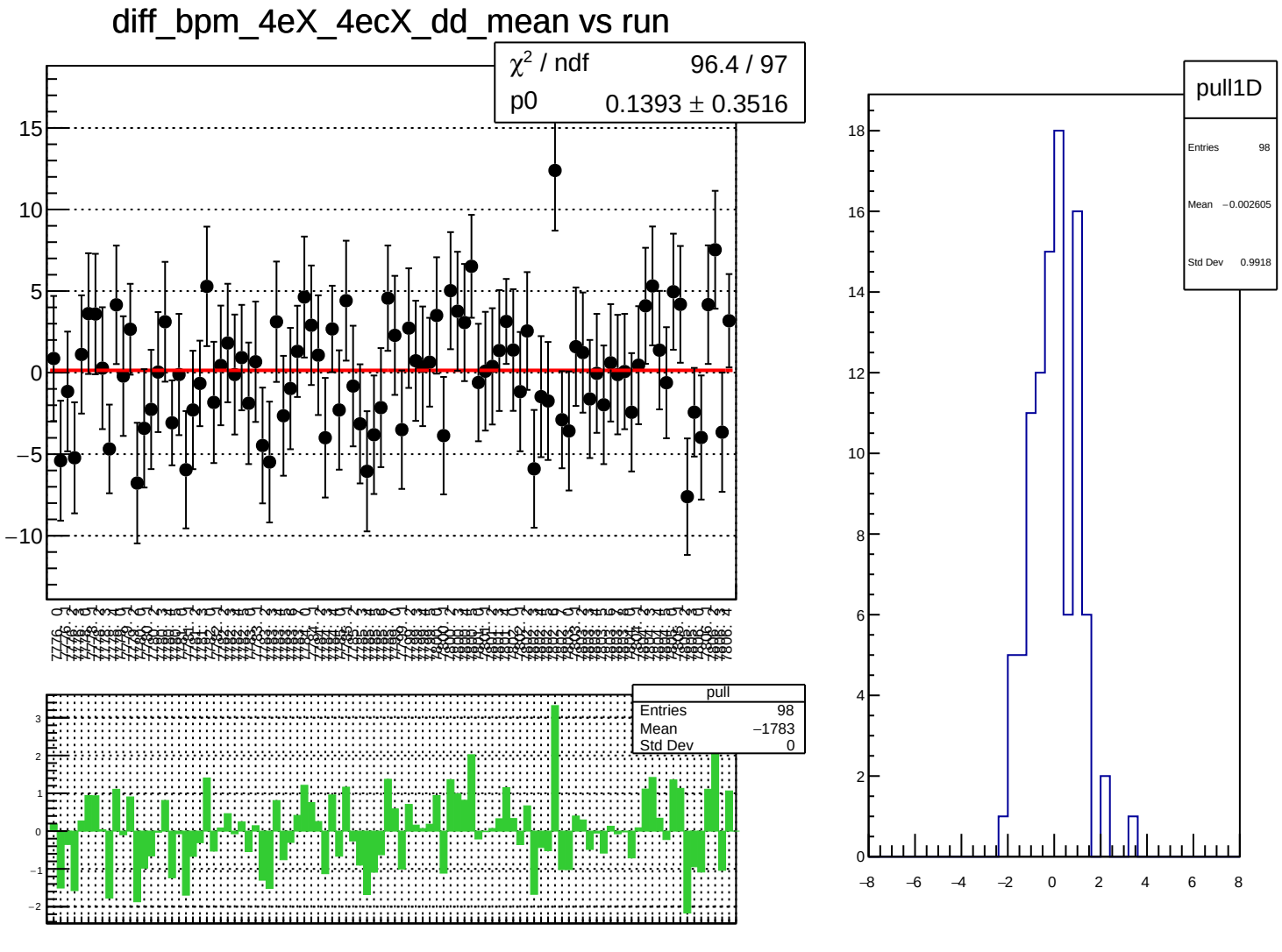

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 71.52 / 97
p0 −0.5543 ± 0.633
pull
Entries 98
Mean 7381
Std Dev 0
pull1D
Entries 98
Mean −0.0001242
Std Dev 0.8543

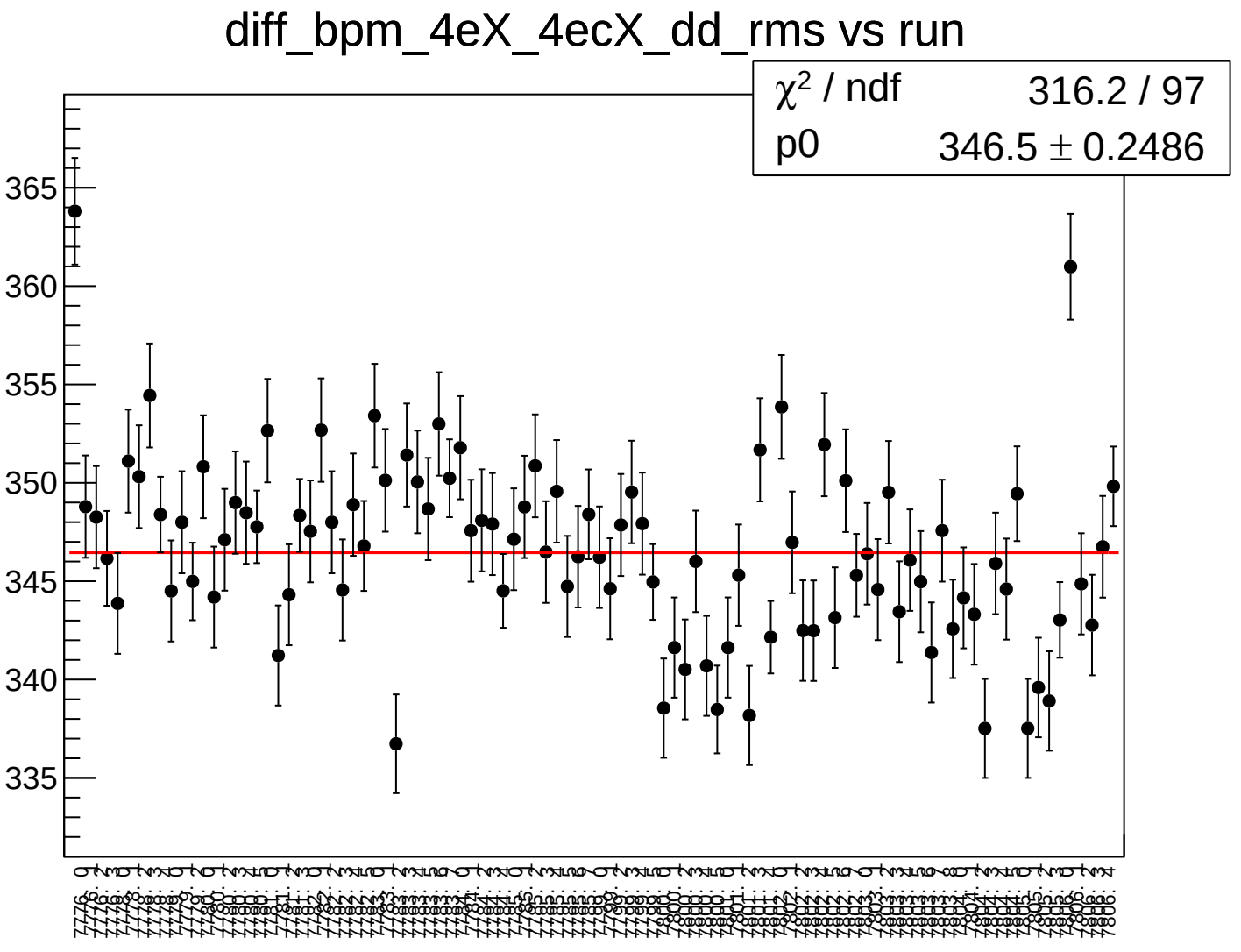

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 2601 / 97
p0 623.4 ± 0.4476
720
700
680
660
640
620
600
580
560

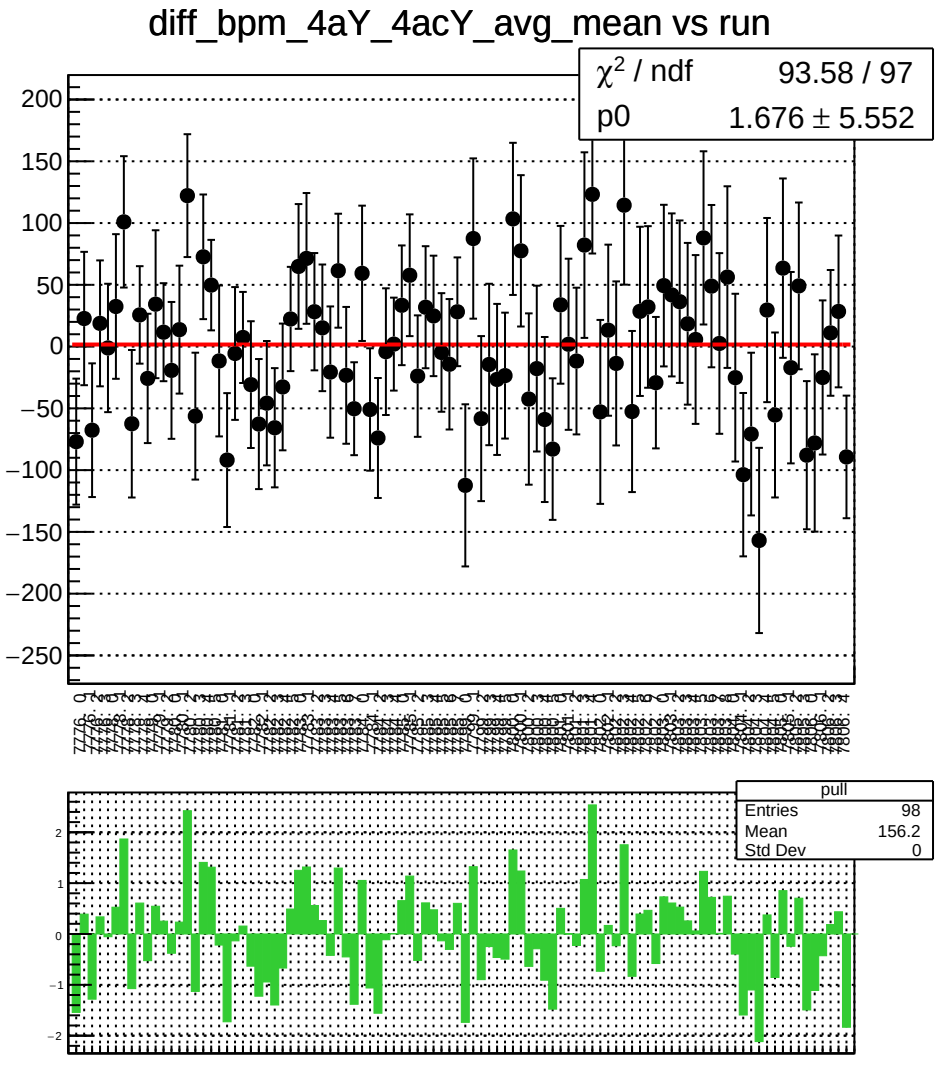

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 71.03 / 97
p0 −10.76 ± 25.72
pull
Entries 98
Mean −1552
Std Dev 0

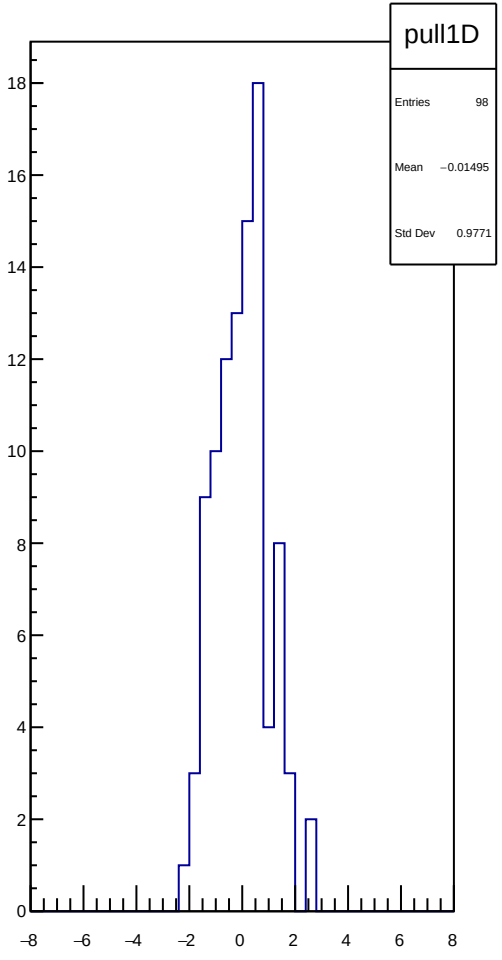

pull1D
Entries 98
Mean 0.002306
Std Dev 0.8514

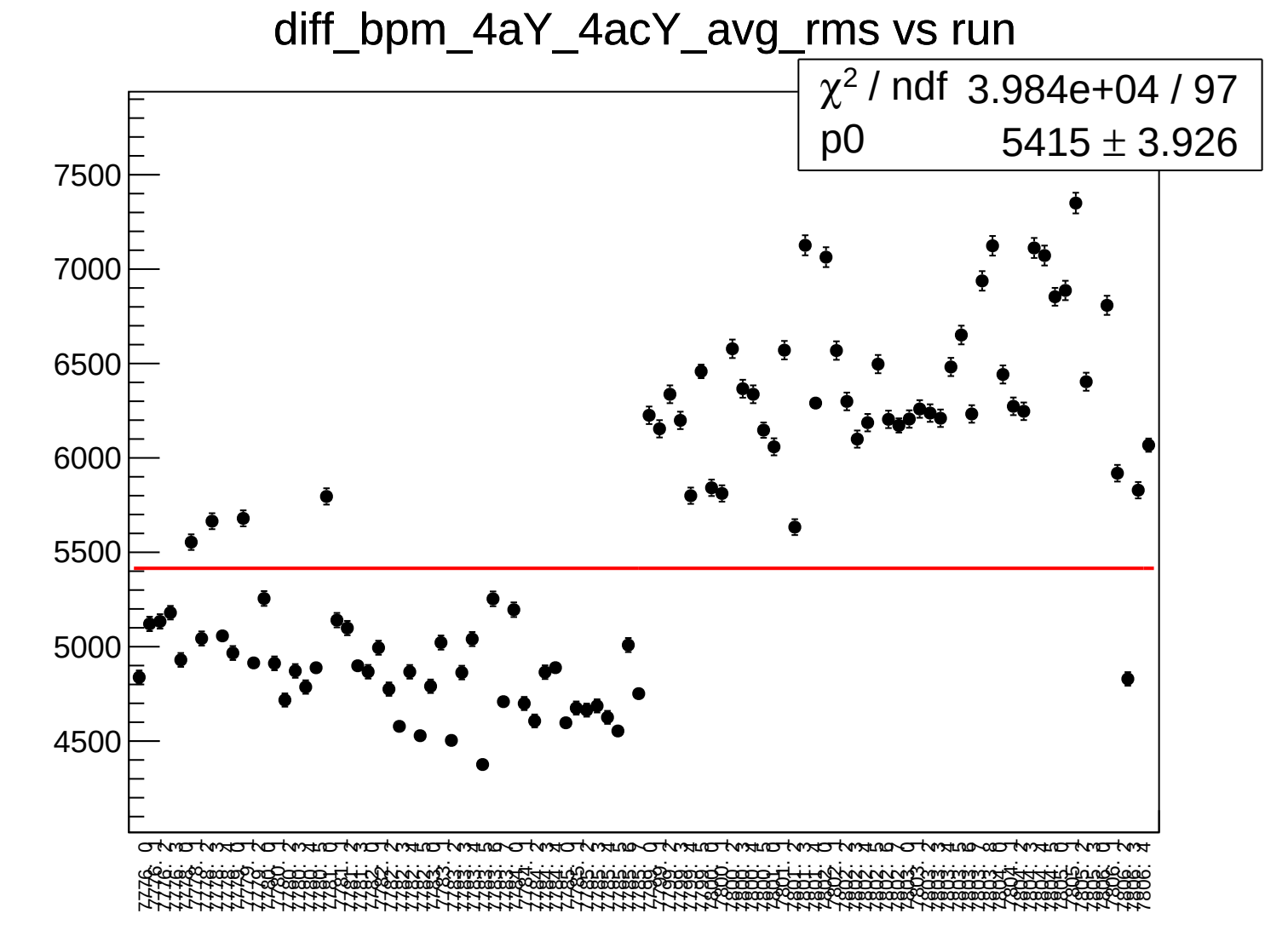

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 3678 / 97
p0 2.533e+04 ± 18.19
31000
30000
29000
28000
27000
26000
25000
24000
23000
22000

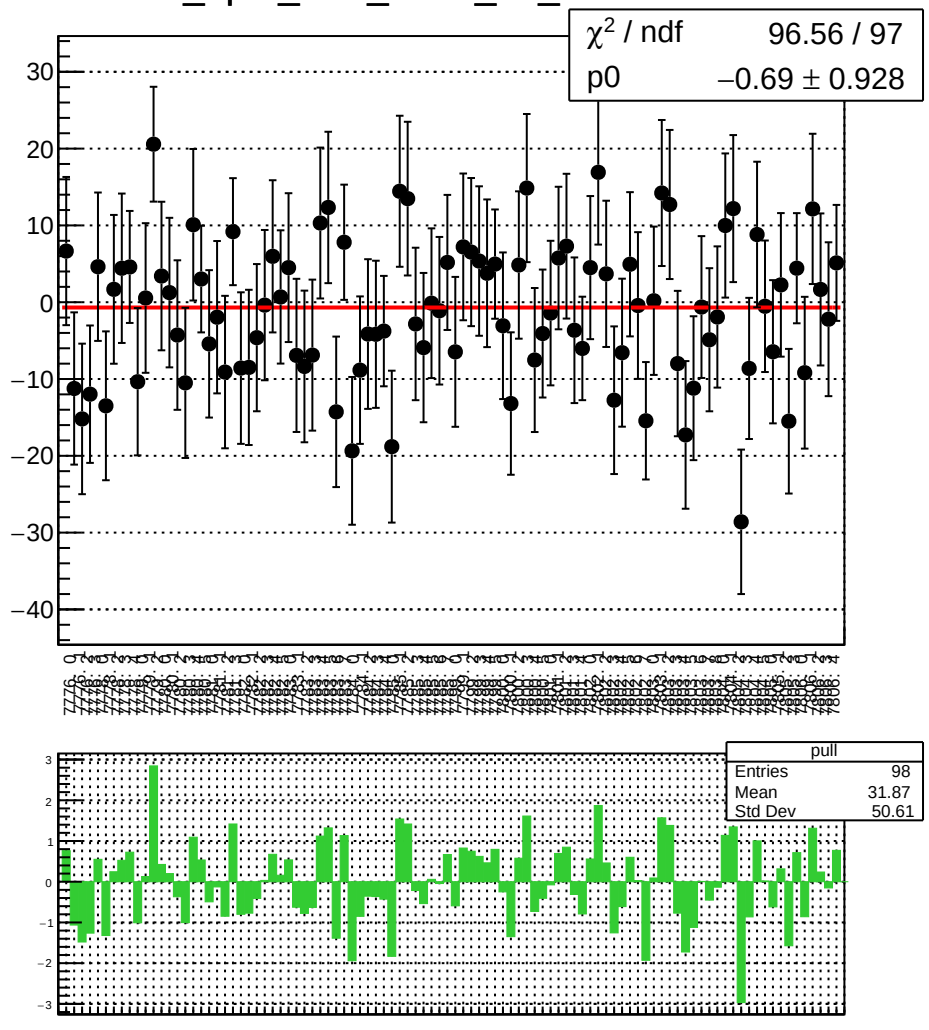

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 96.4 / 97
p0 0.1393 ± 0.3516
pull
Entries 98
Mean −1783
Std Dev 0
pull1D
Entries 98
Mean −0.002605
Std Dev 0.9918

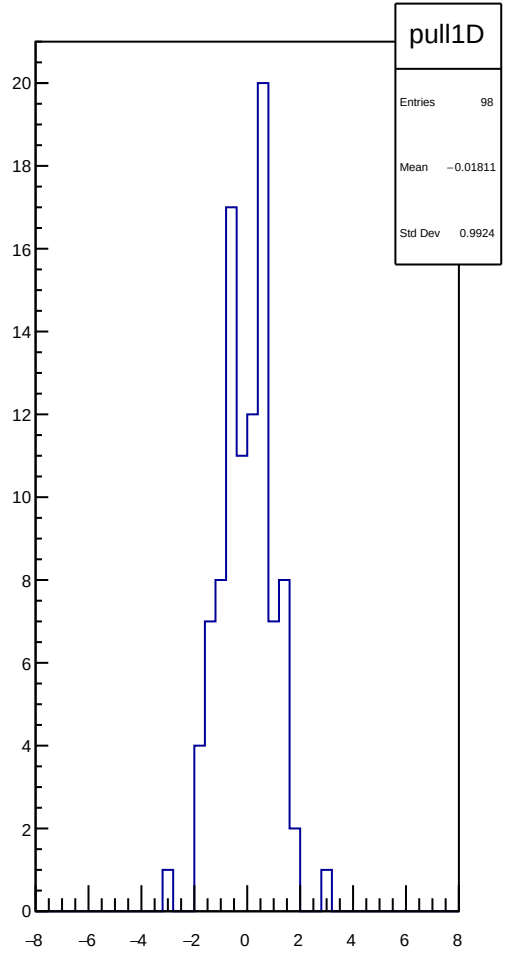

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 316.2 / 97
p0 346.5 ± 0.2486
365
360
355
350
345
340
335

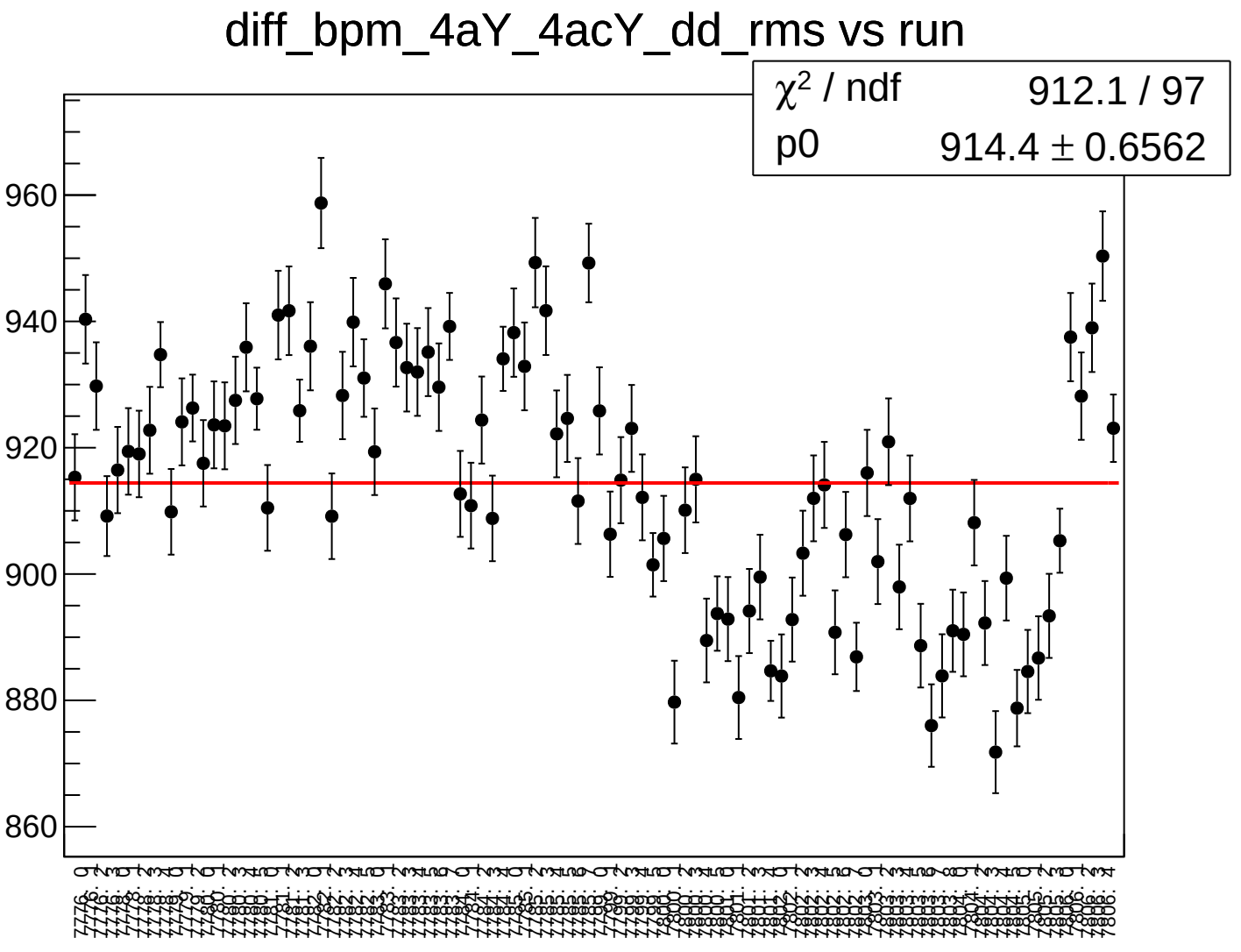

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 93.58 / 97
p0 1.676 ± 5.552
pull
Entries 98
Mean 156.2
Std Dev 0

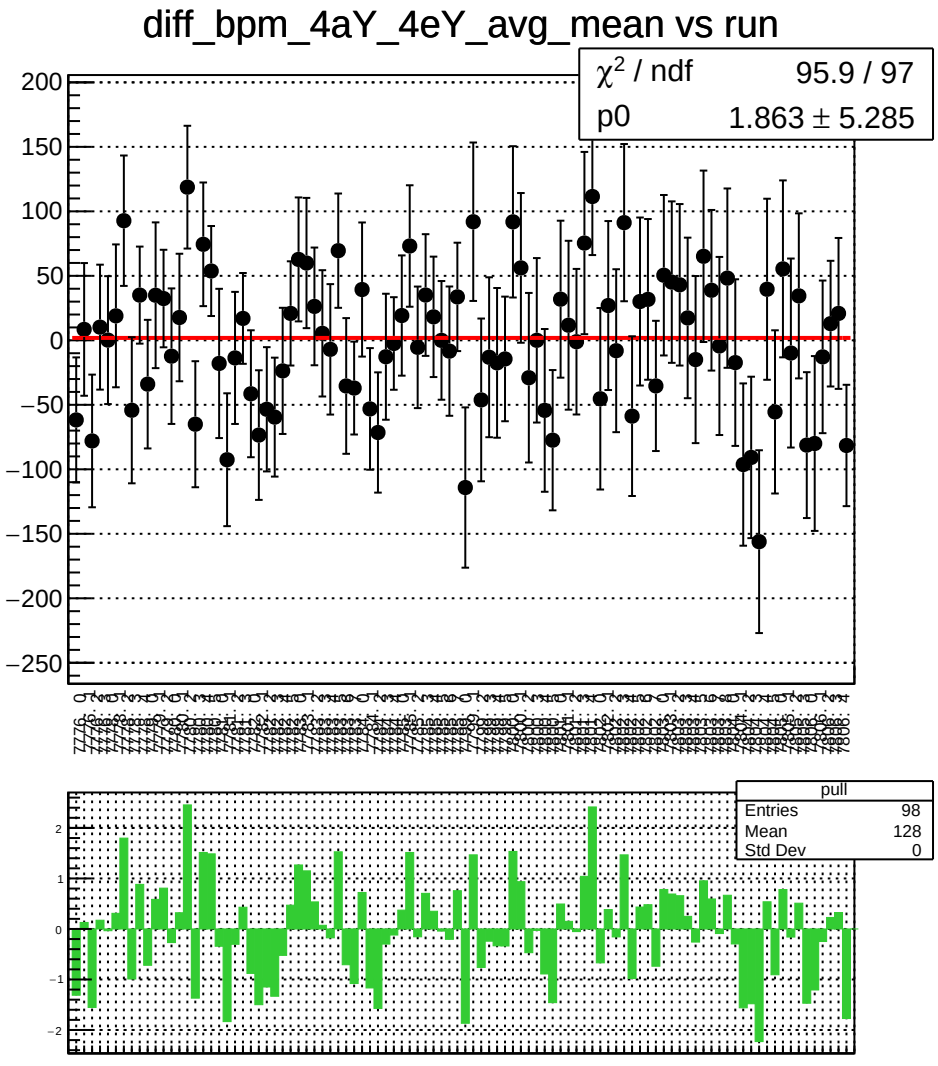

pull1D
Entries 98
Mean −0.01495
Std Dev 0.9771

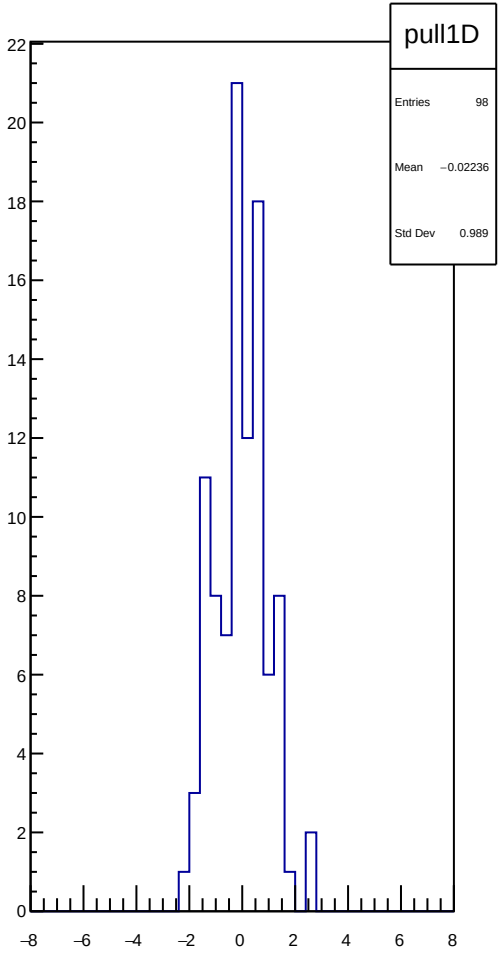

diff_bpm_4aY_4acY_avg_rms vs run
χ^2 / ndf 3.984e+04 / 97
p0 5415 ± 3.926
7500
7000
6500
6000
5500
5000
4500

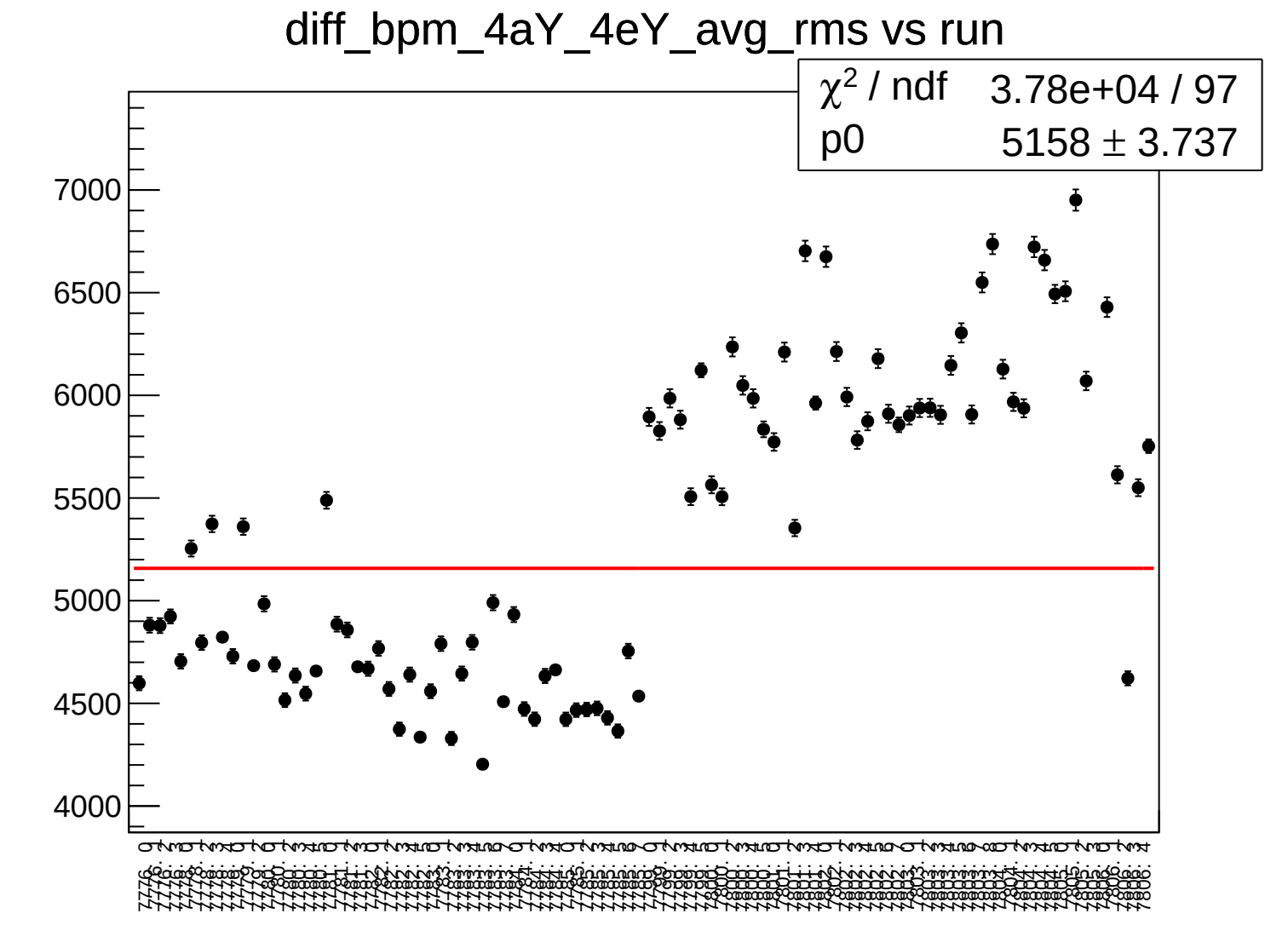

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 96.56 / 97
p0 −0.69 ± 0.928
pull
Entries 98
Mean 31.87
Std Dev 50.61

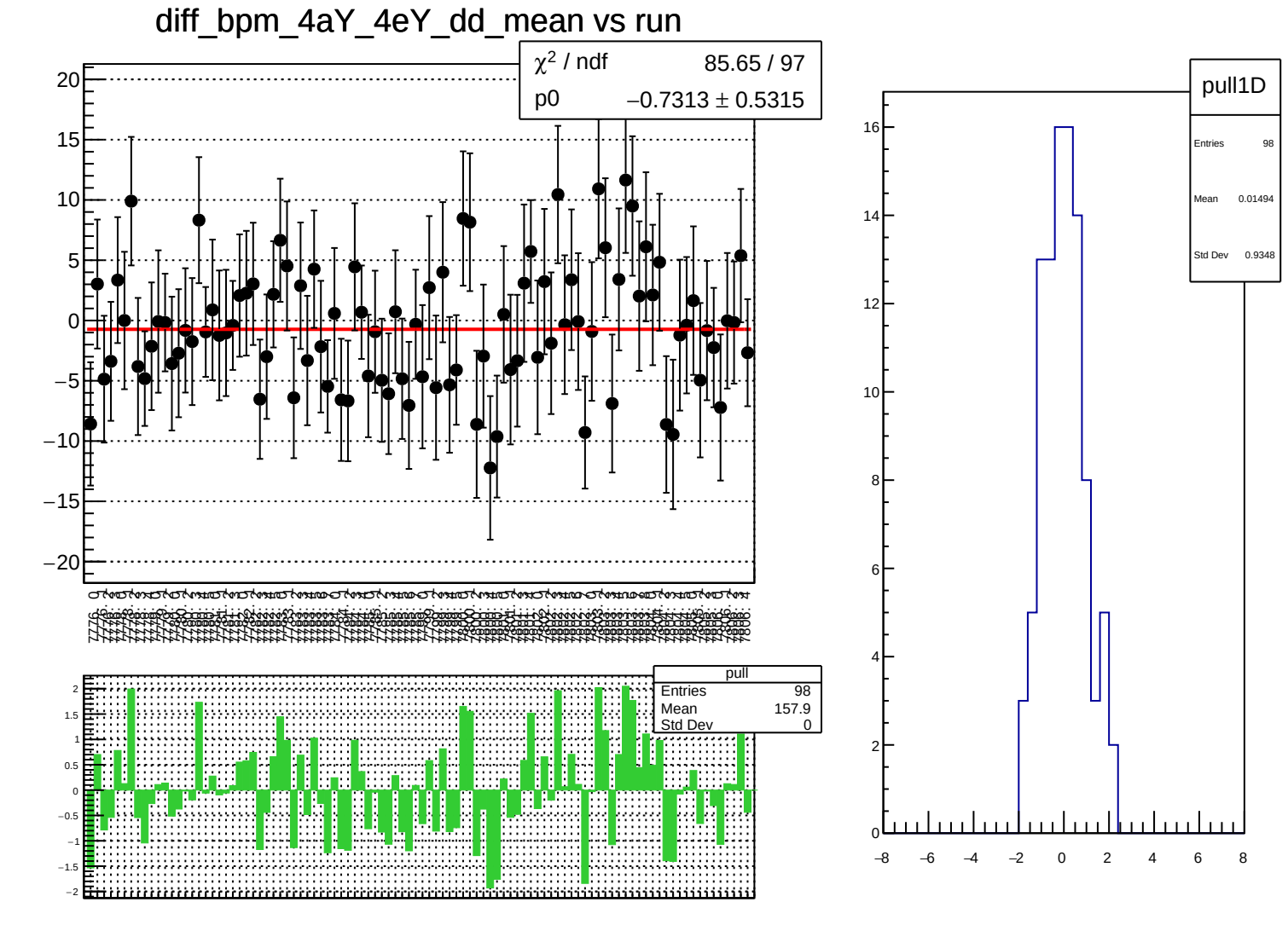

pull1D
Entries 98
Mean −0.01811
Std Dev 0.9924

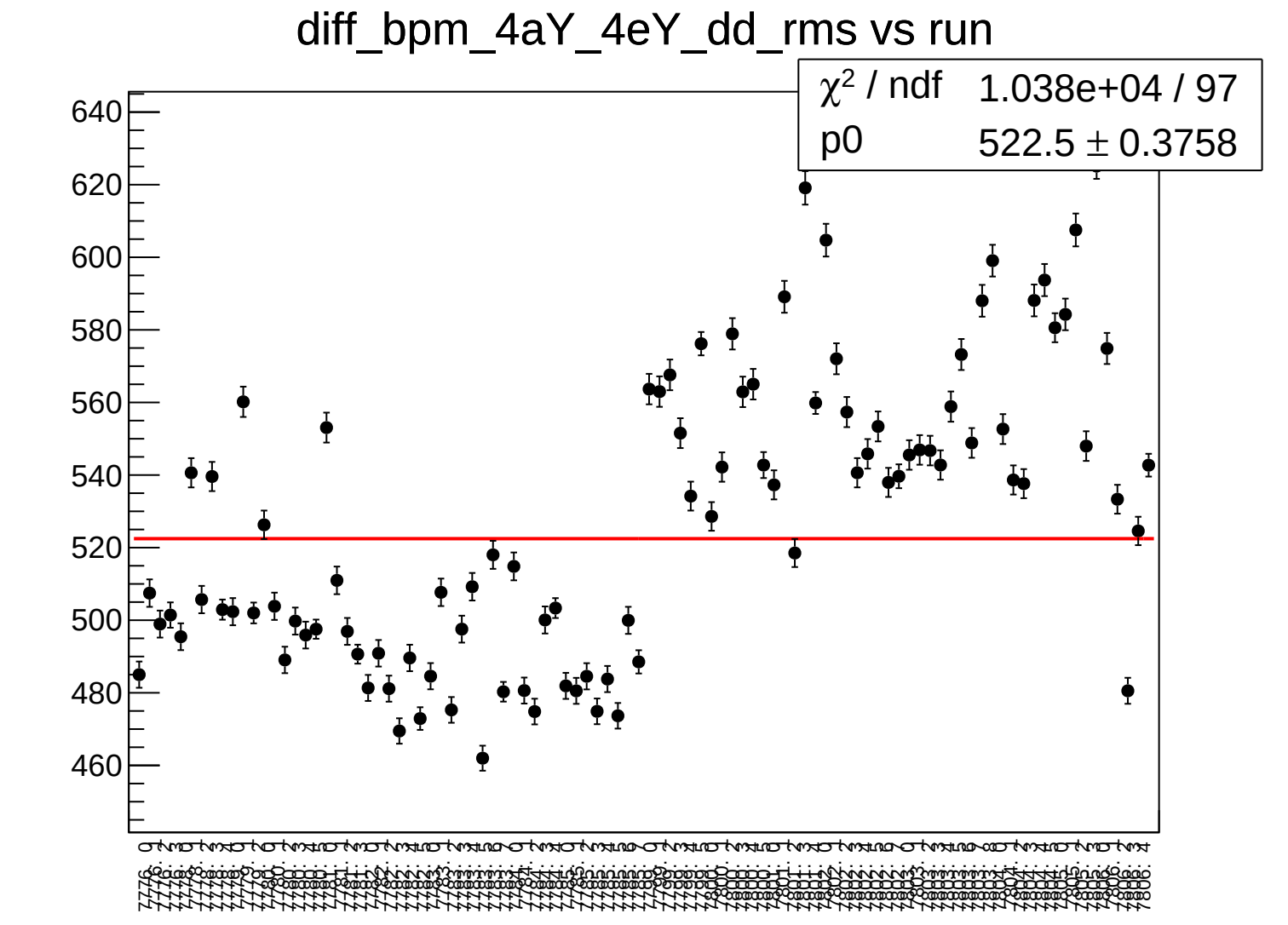

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 912.1 / 97
p0 914.4 ± 0.6562
960
940
920
900
880
860

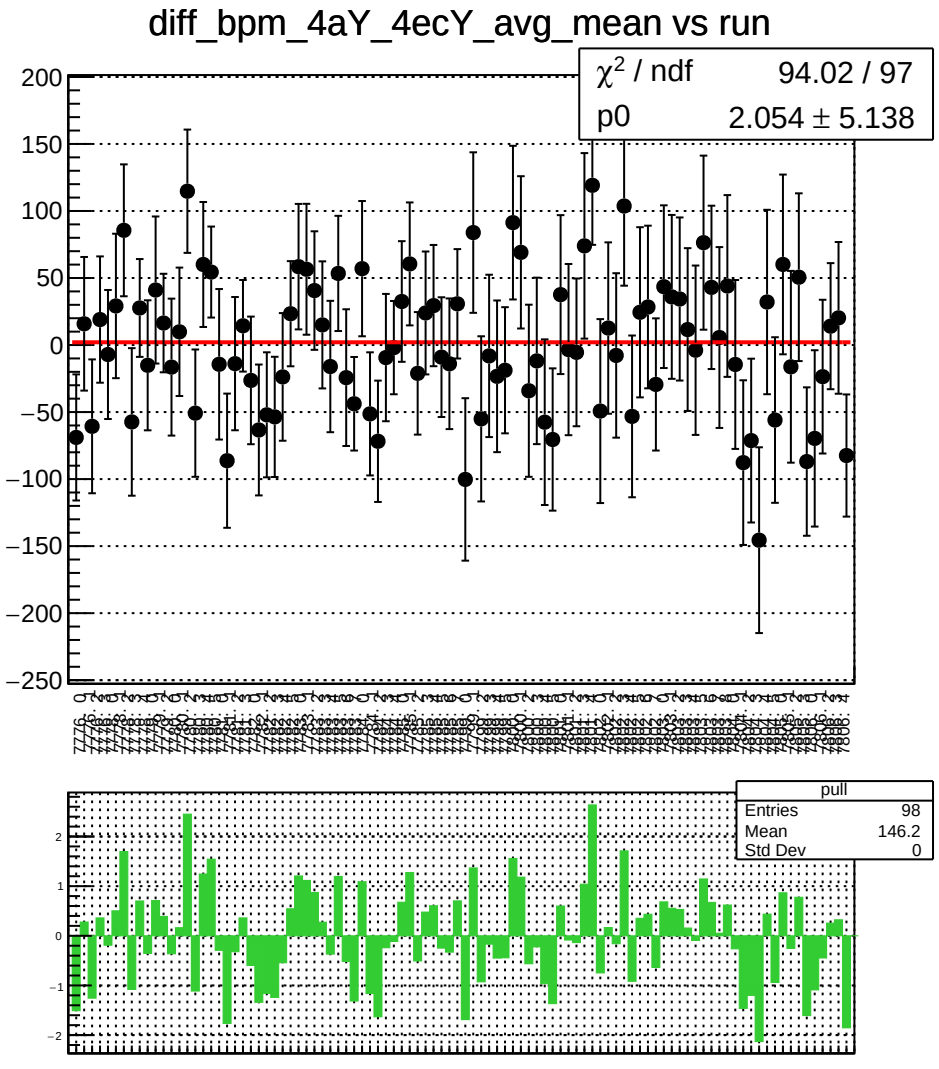

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 95.9 / 97
p0 1.863 ± 5.285
pull
Entries 98
Mean 128
Std Dev 0

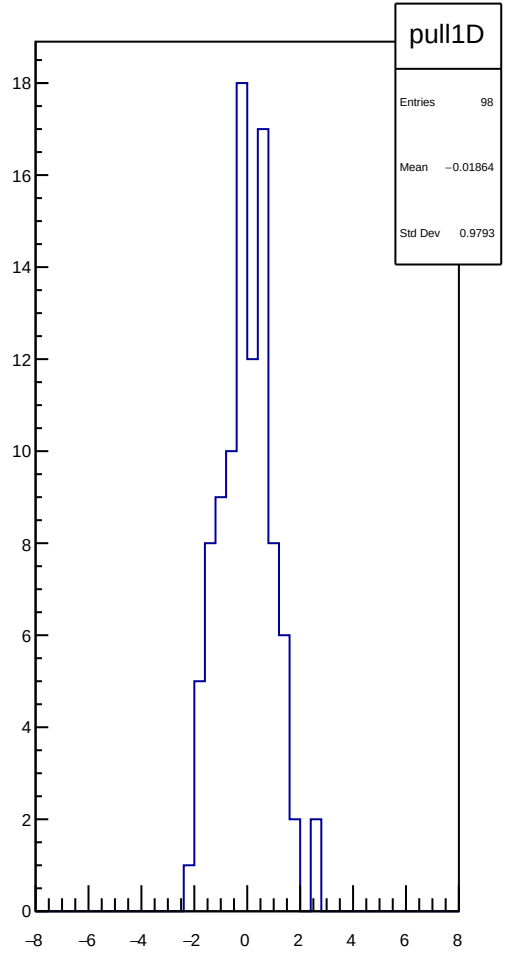

pull1D
Entries 98
Mean −0.02236
Std Dev 0.989

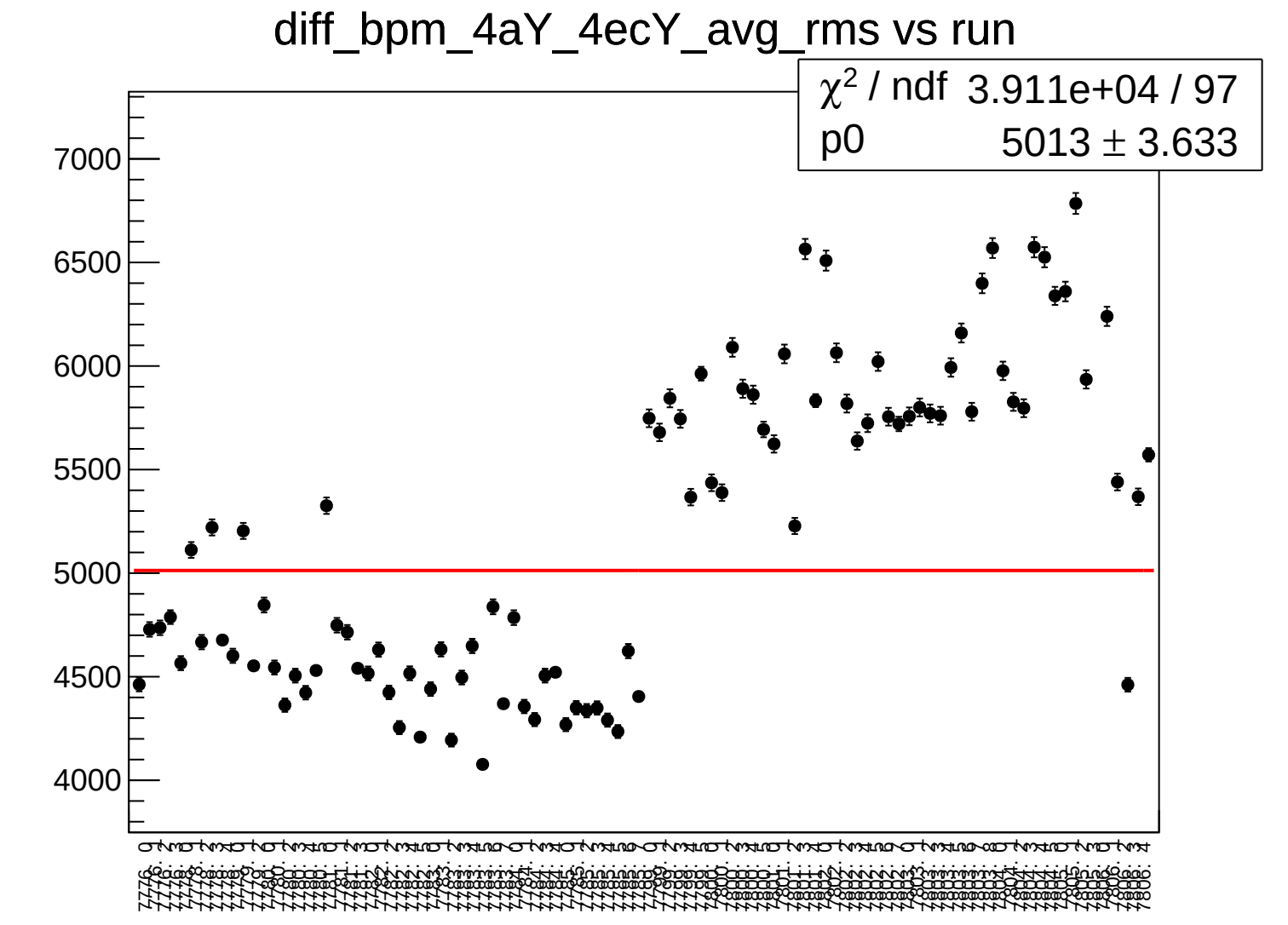

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 3.78e+04 / 97
p0 5158 ± 3.737
7000
6500
6000
5500
5000
4500
4000

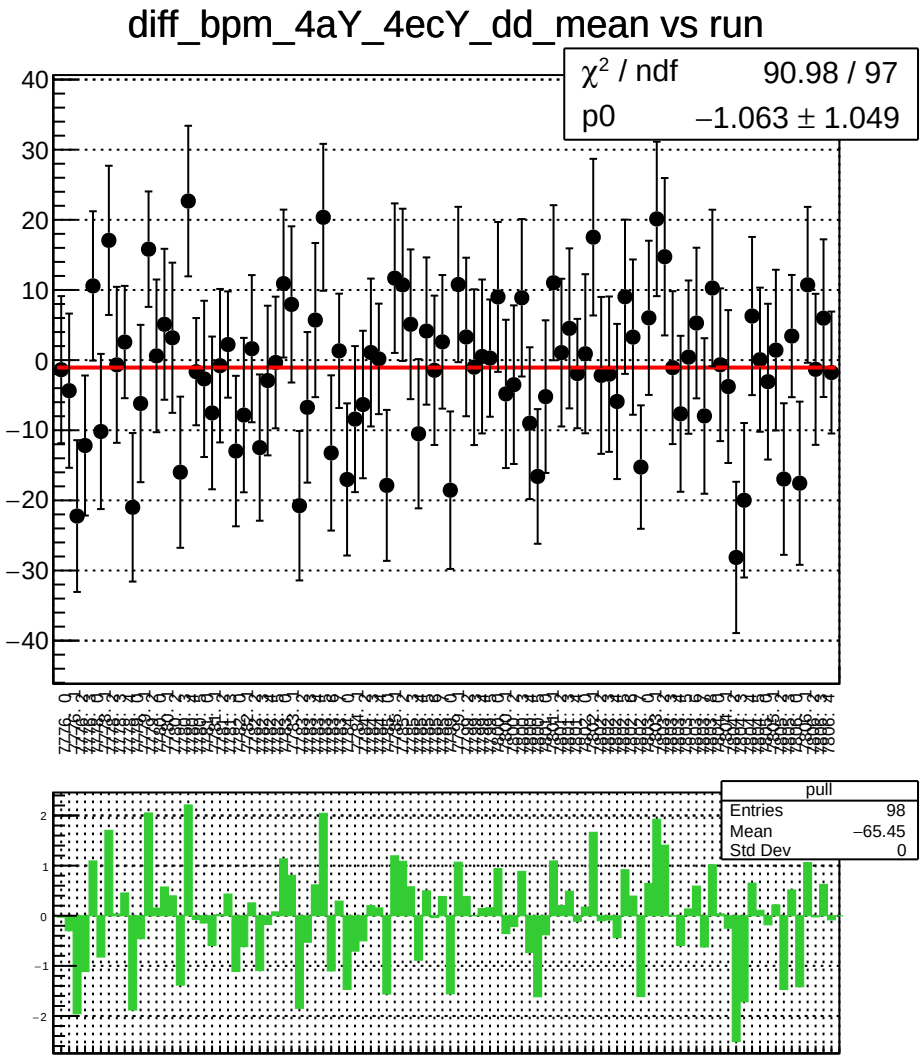

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 85.65 / 97
p0 −0.7313 ± 0.5315
pull
Entries 98
Mean 157.9
Std Dev 0
pull1D
Entries 98
Mean 0.01494
Std Dev 0.9348

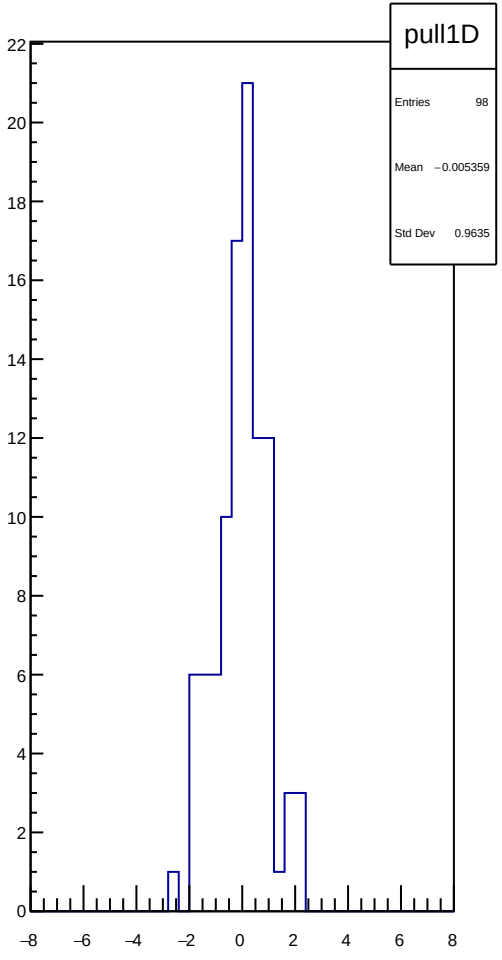

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.038e+04 / 97
p0 522.5 ± 0.3758
640
620
600
580
560
540
520
500
480
460

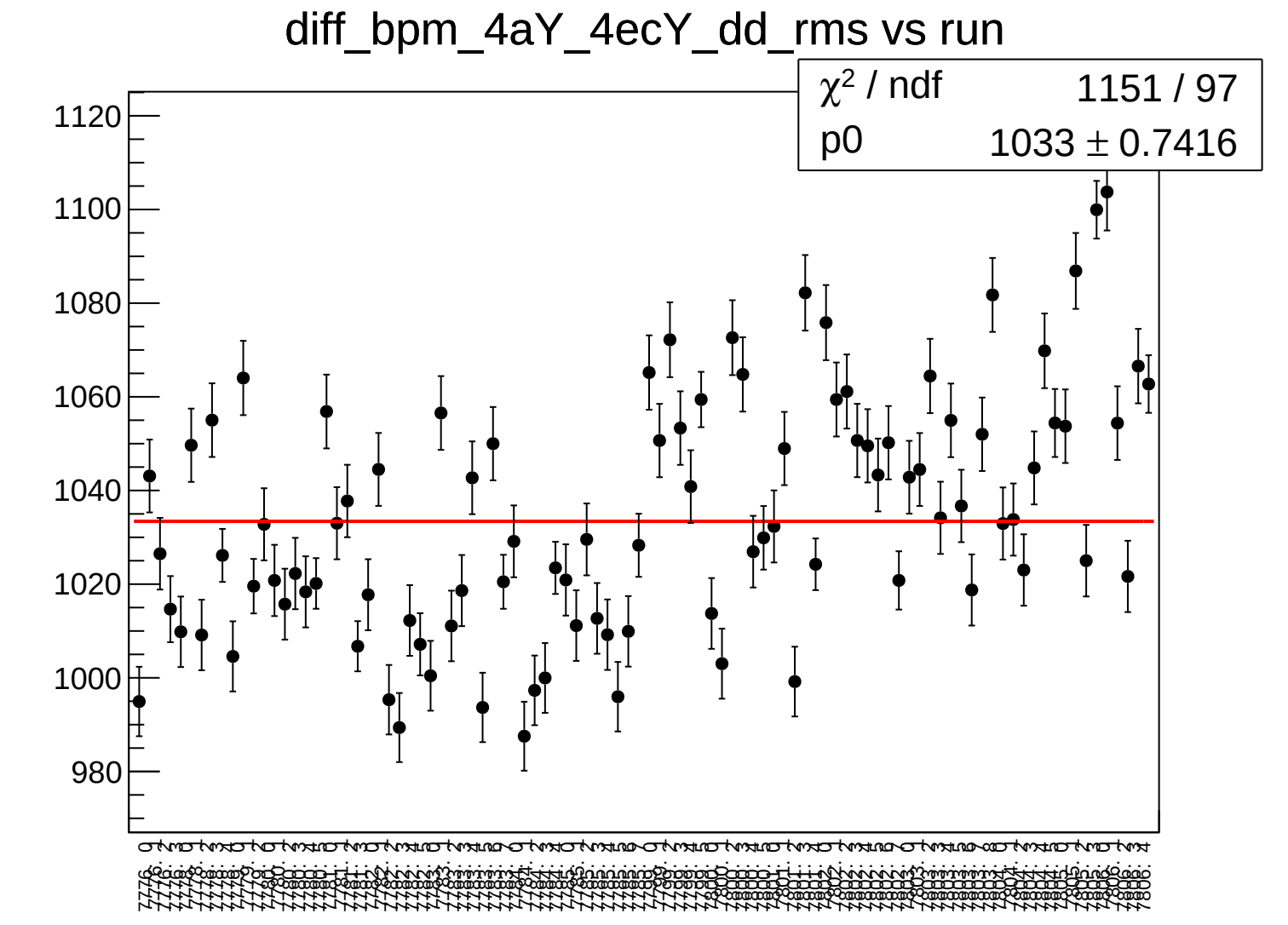

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 94.02 / 97
p0 2.054 ± 5.138
pull
Entries 98
Mean 146.2
Std Dev 0

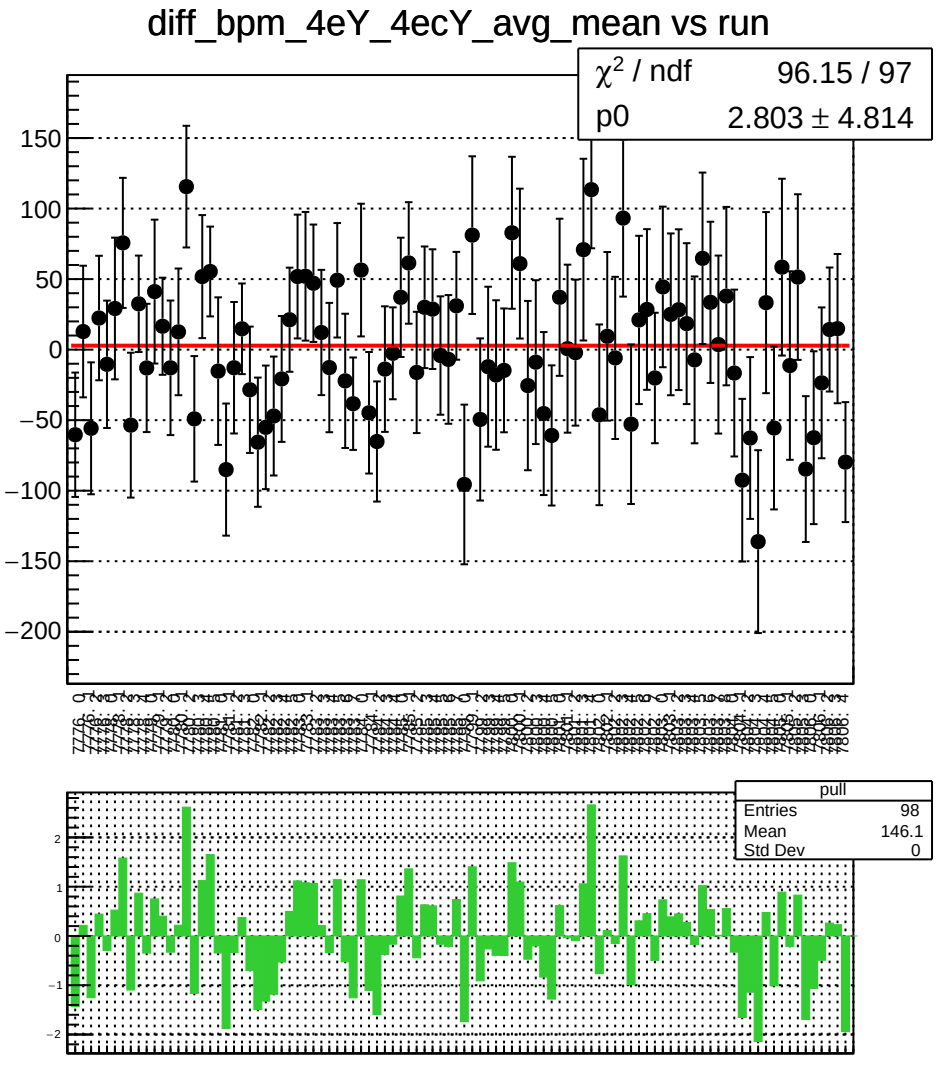

pull1D
Entries 98
Mean −0.01864
Std Dev 0.9793

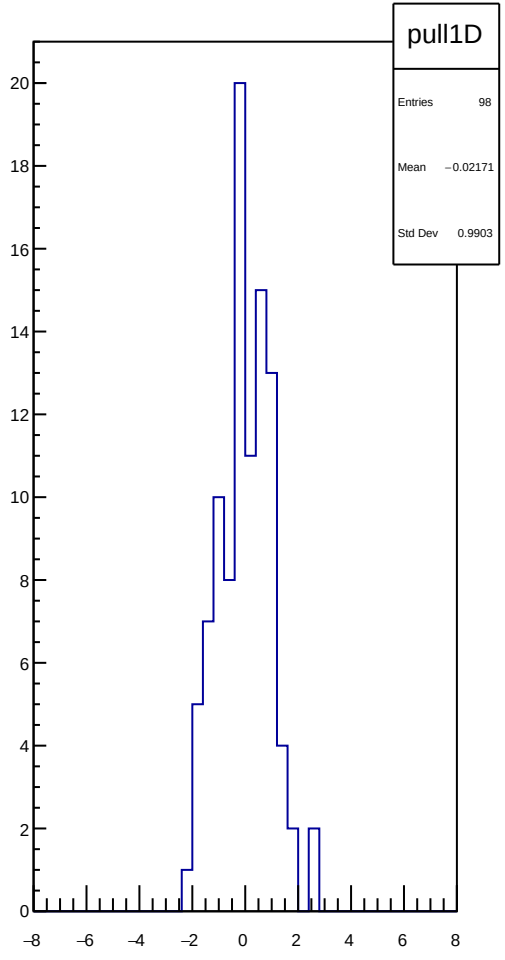

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 3.911e+04 / 97
p0 5013 ± 3.633
7000
6500
6000
5500
5000
4500
4000

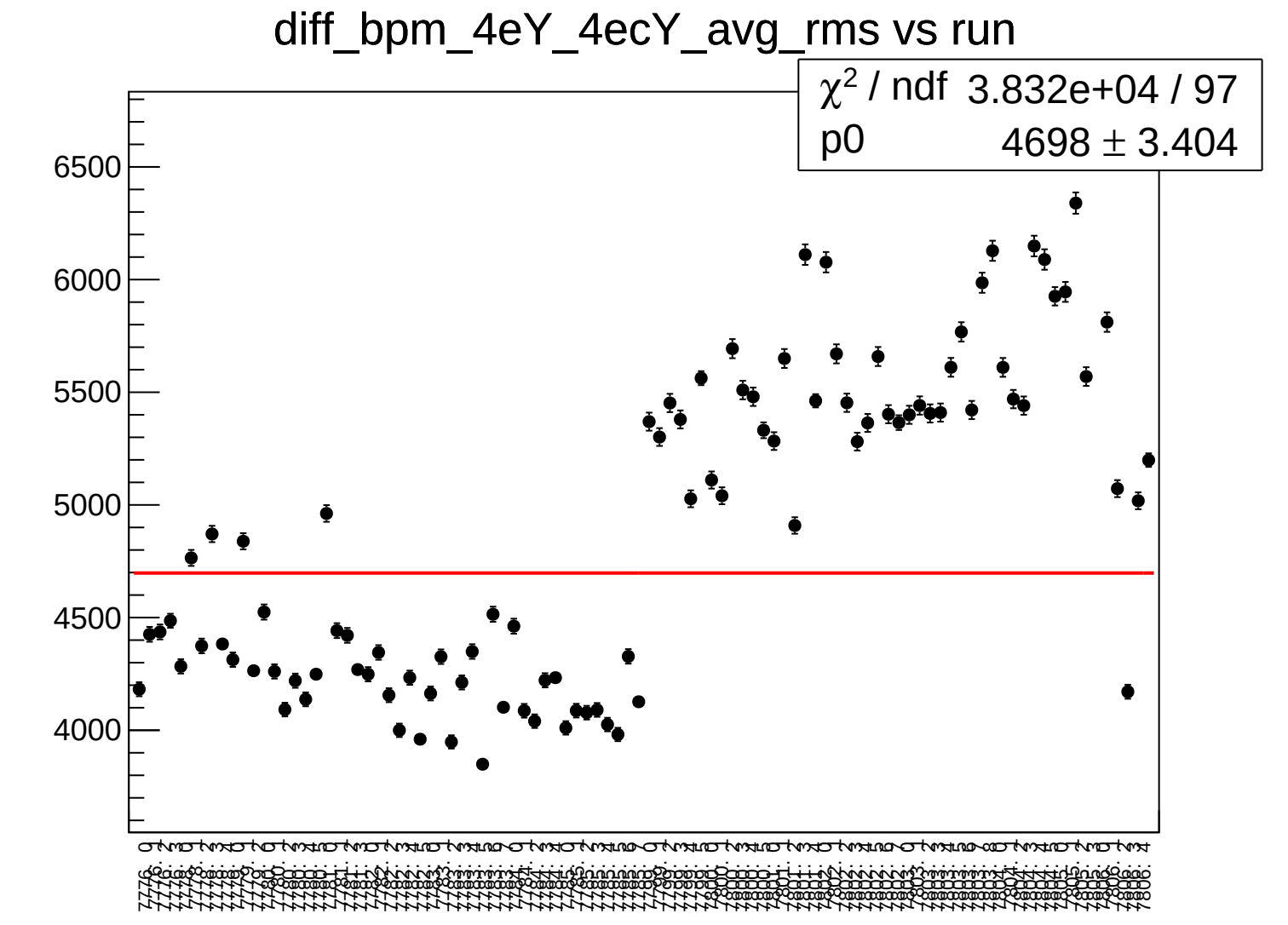

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 90.98 / 97
p0 −1.063 ± 1.049
pull
Entries 98
Mean −65.45
Std Dev 0

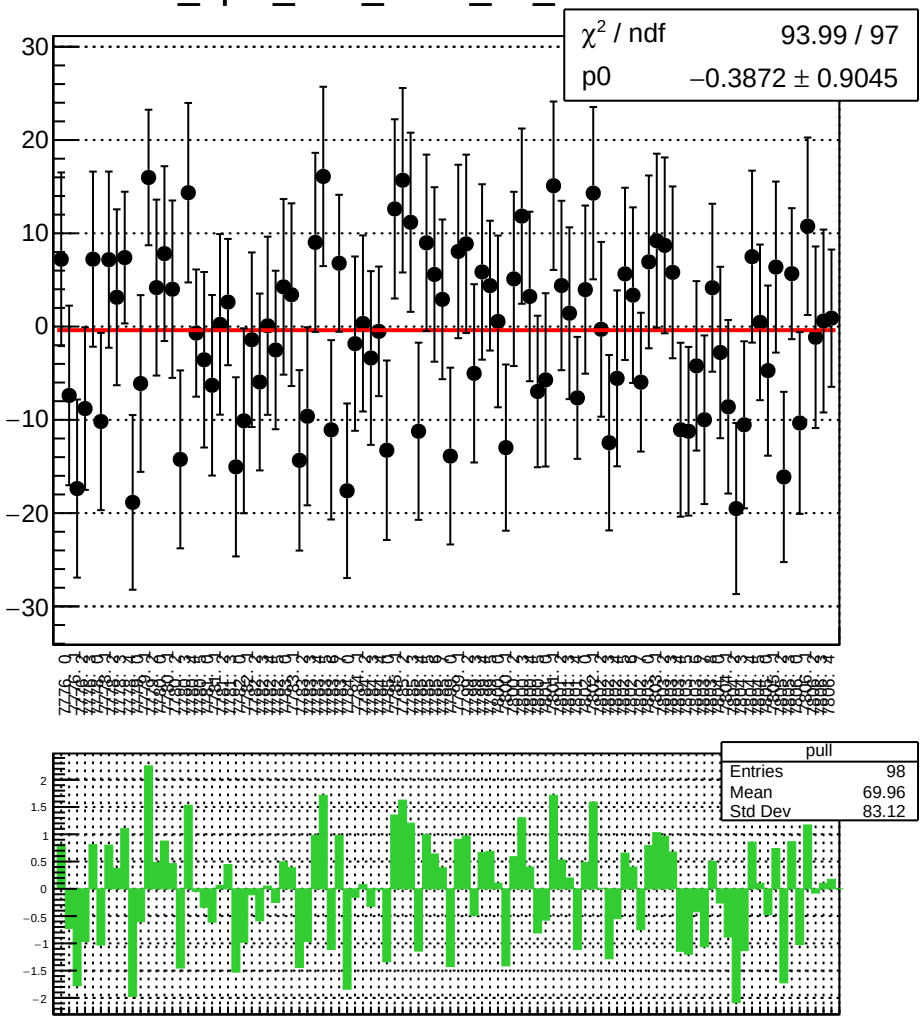

pull1D
Entries 98
Mean −0.005359
Std Dev 0.9635

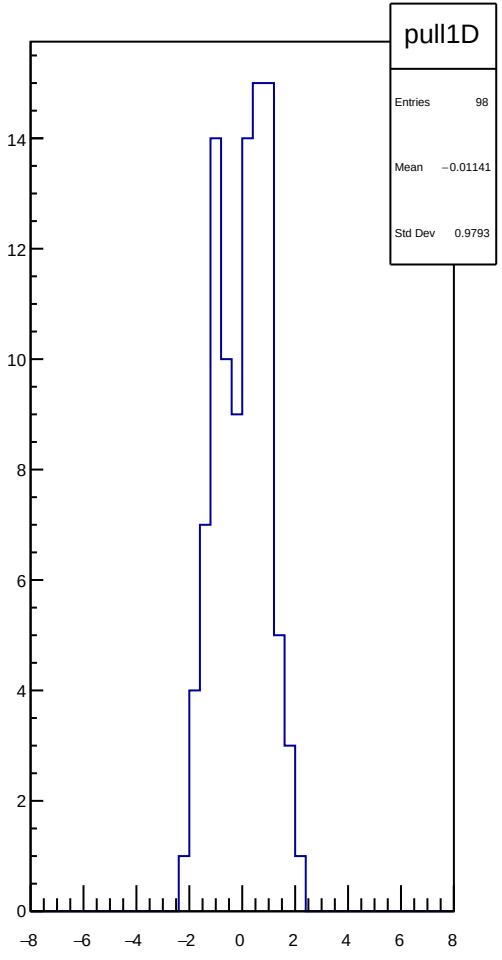

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1151 / 97
p0 1033 ± 0.7416
1120
1100
1080
1060
1040
1020
1000
980

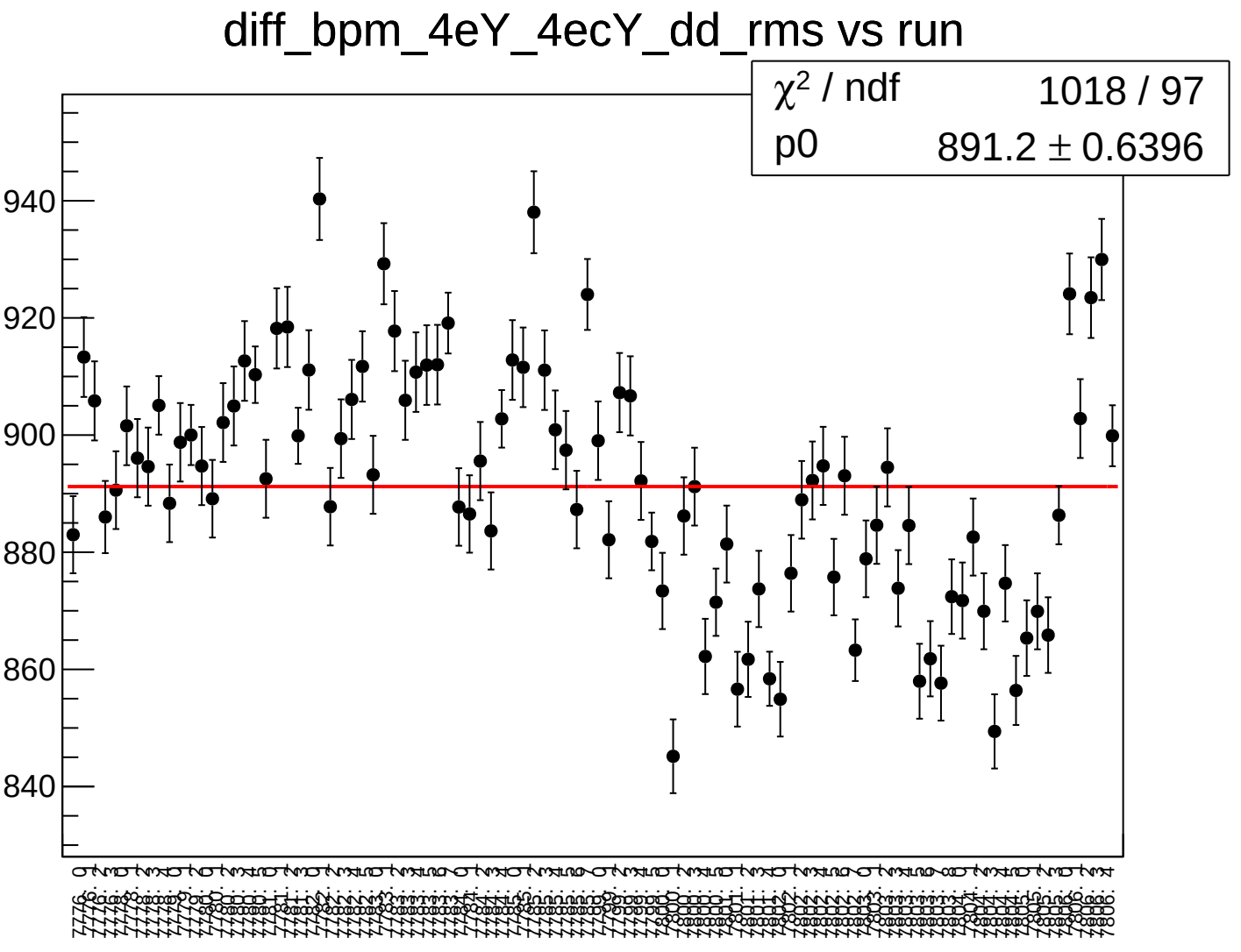

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 96.15 / 97
p0 2.803 ± 4.814
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 146.1
Std Dev 0
2
1
0
−1
−2

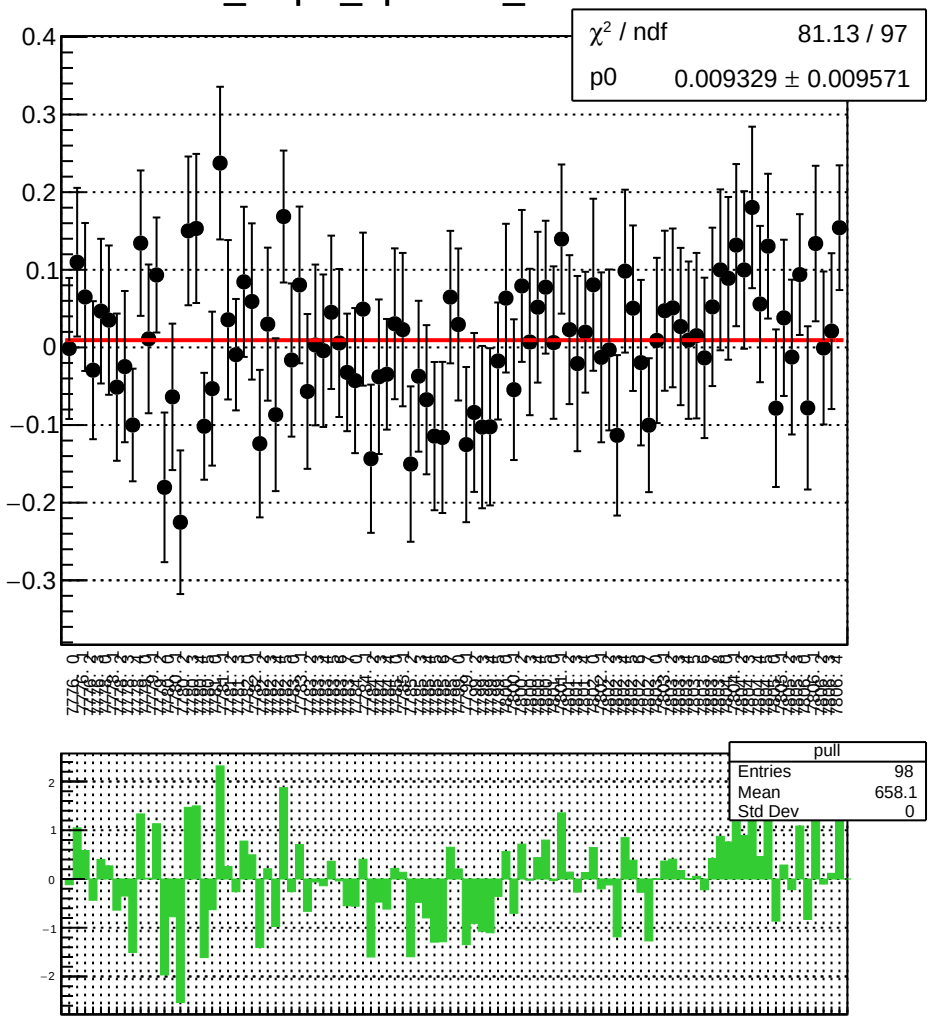

pull1D
Entries 98
Mean −0.02171
Std Dev 0.9903
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

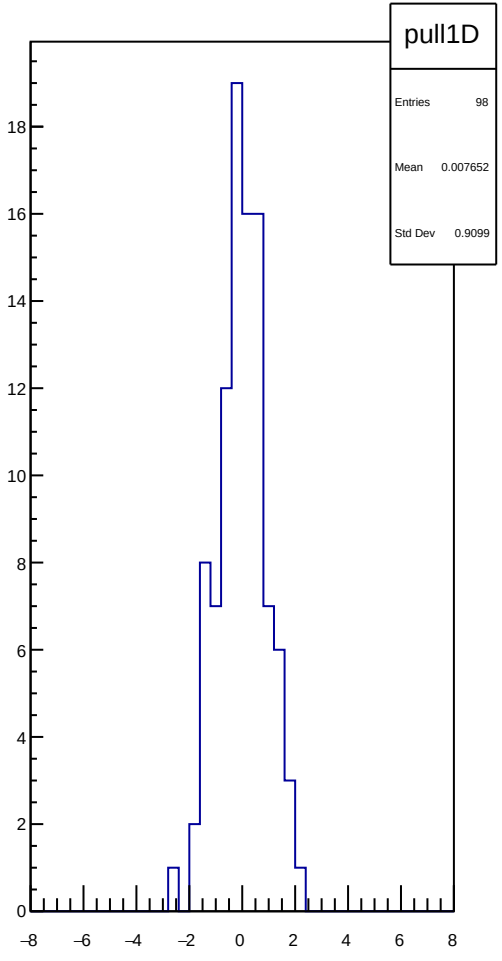

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3.832e+04 / 97
p0 4698 ± 3.404
6500
6000
5500
5000
4500
4000

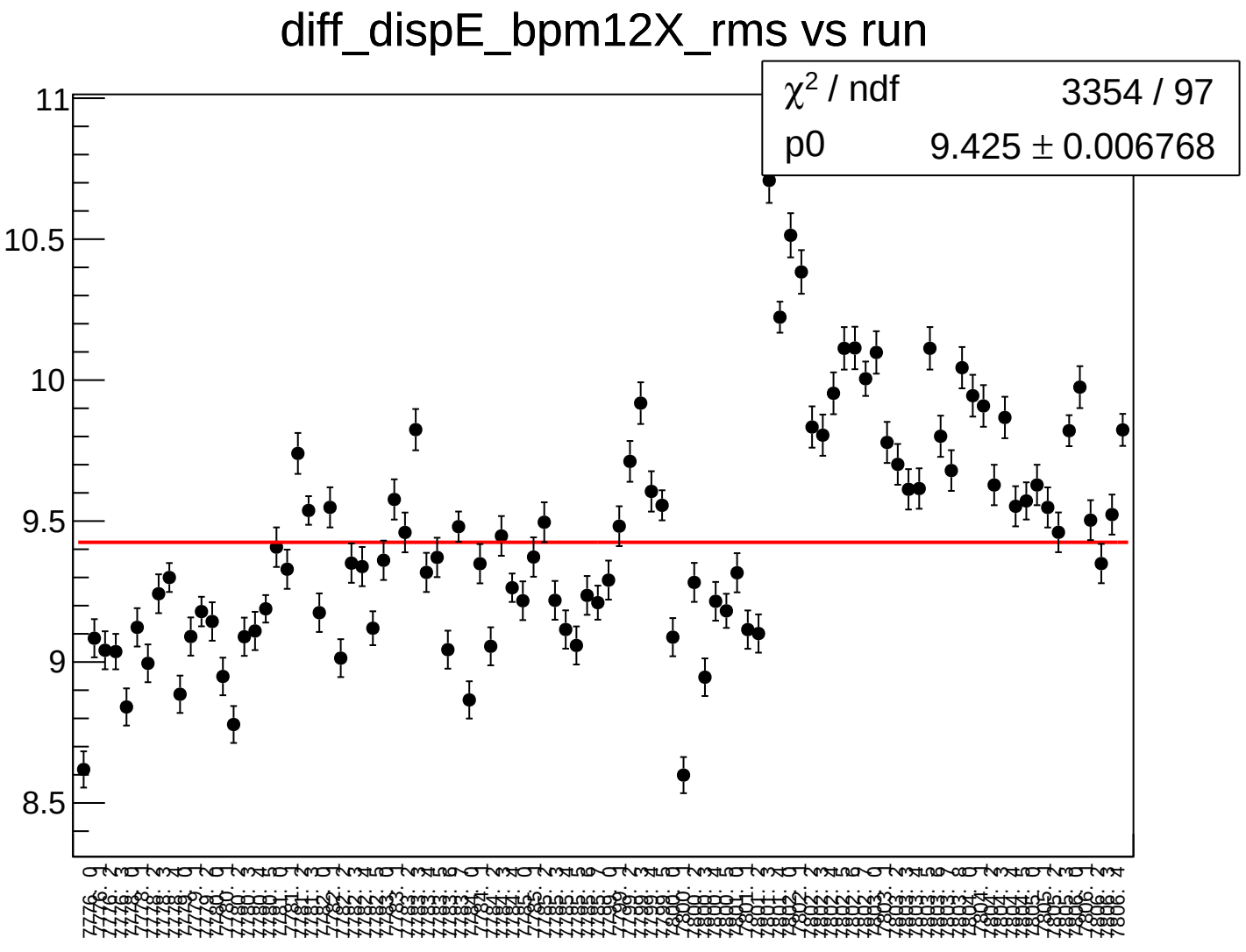

diff_bpm_4eY_4ecY_dd_mean vs run
χ^2 / ndf 93.99 / 97
p0 −0.3872 ± 0.9045
pull
Entries 98
Mean 69.96
Std Dev 83.12

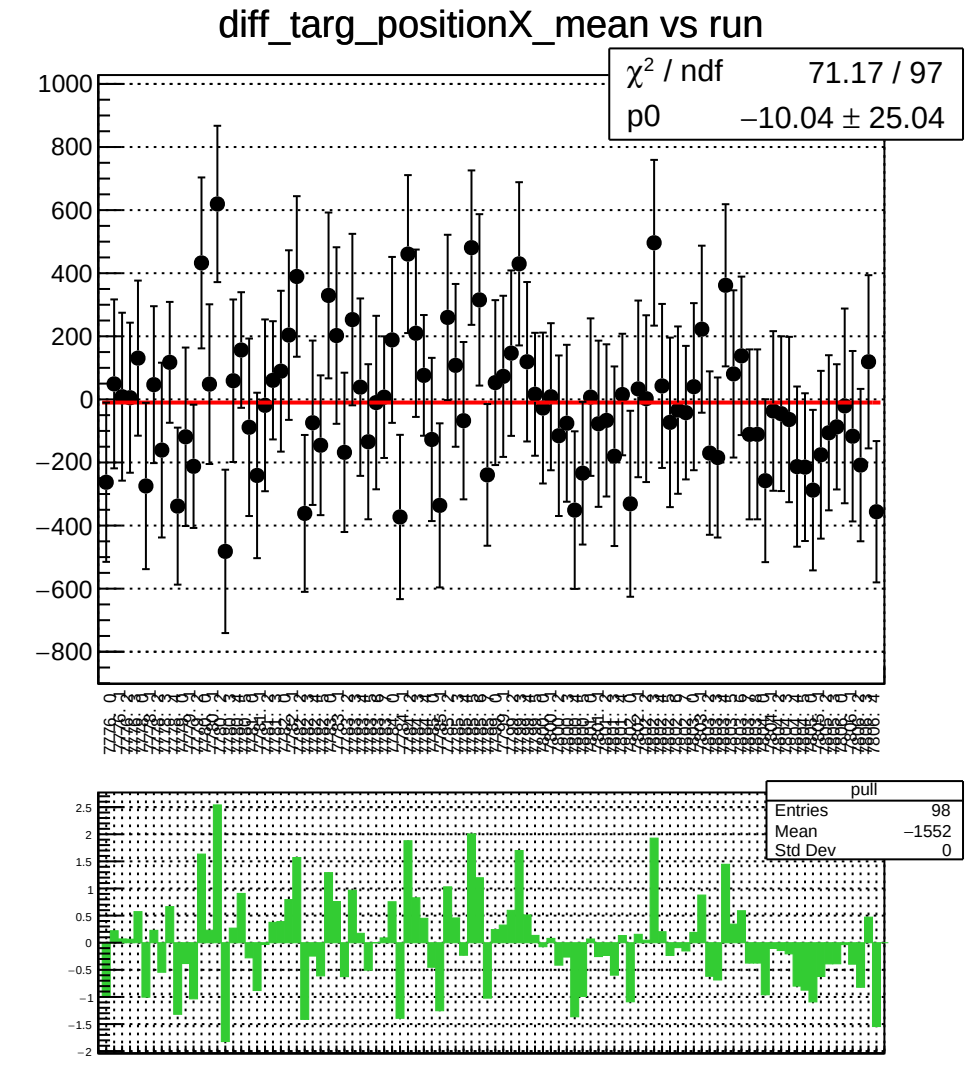

pull1D
Entries 98
Mean −0.01141
Std Dev 0.9793

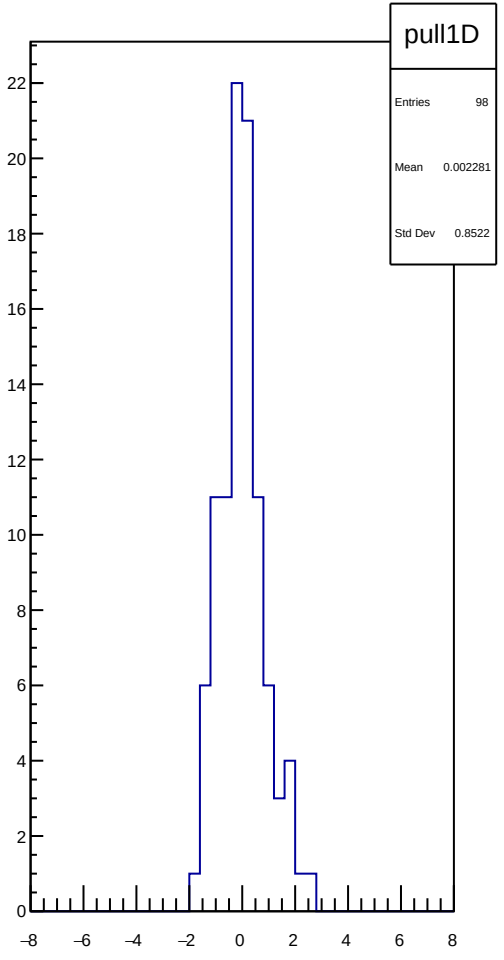

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 1018 / 97
p0 891.2 ± 0.6396
940
920
900
880
860
840

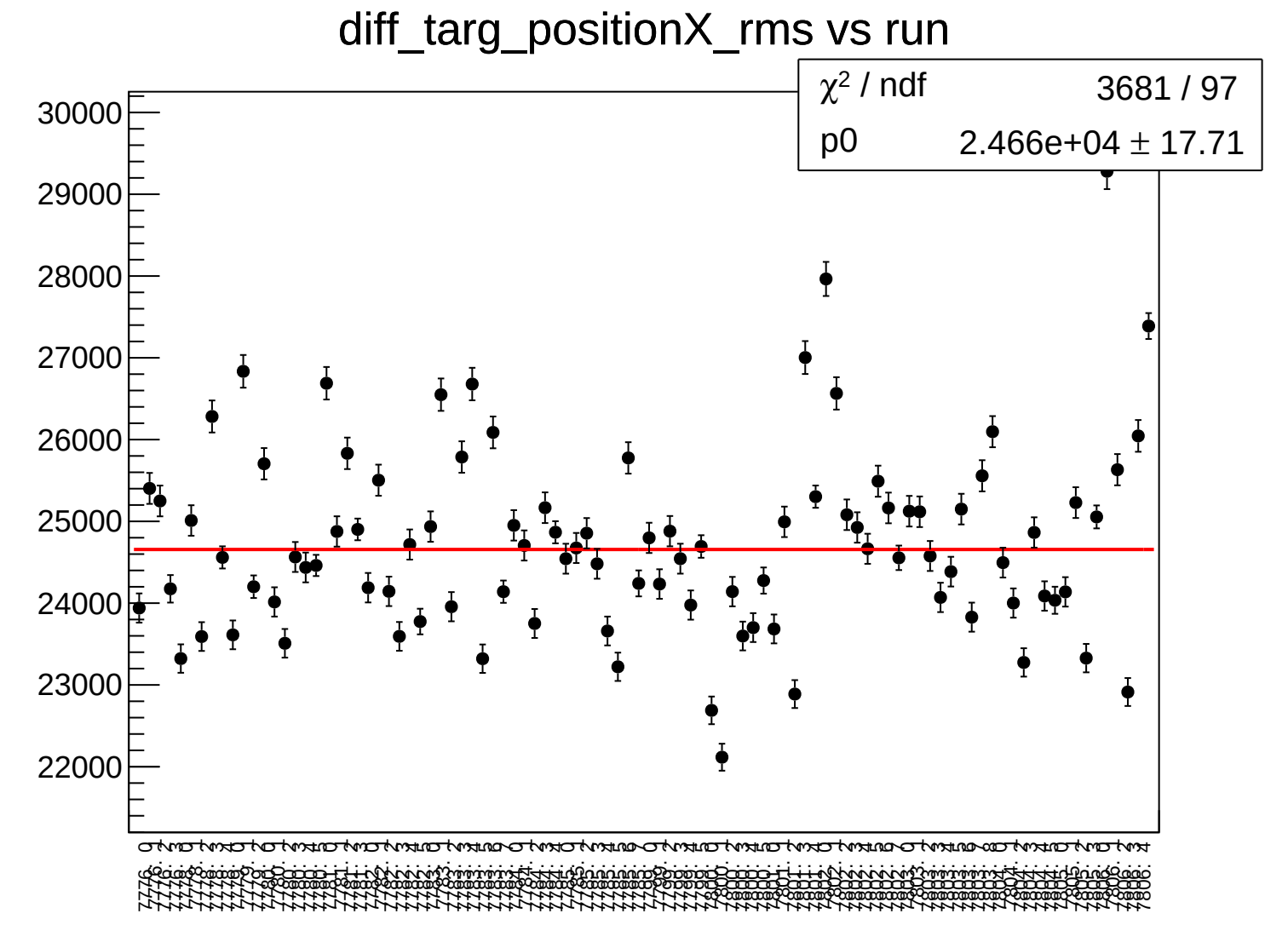

diff_dispE_bpm12X_mean vs run
χ² / ndf 81.13 / 97
p0 0.009329 ± 0.009571
pull
Entries 98
Mean 658.1
Std Dev 0

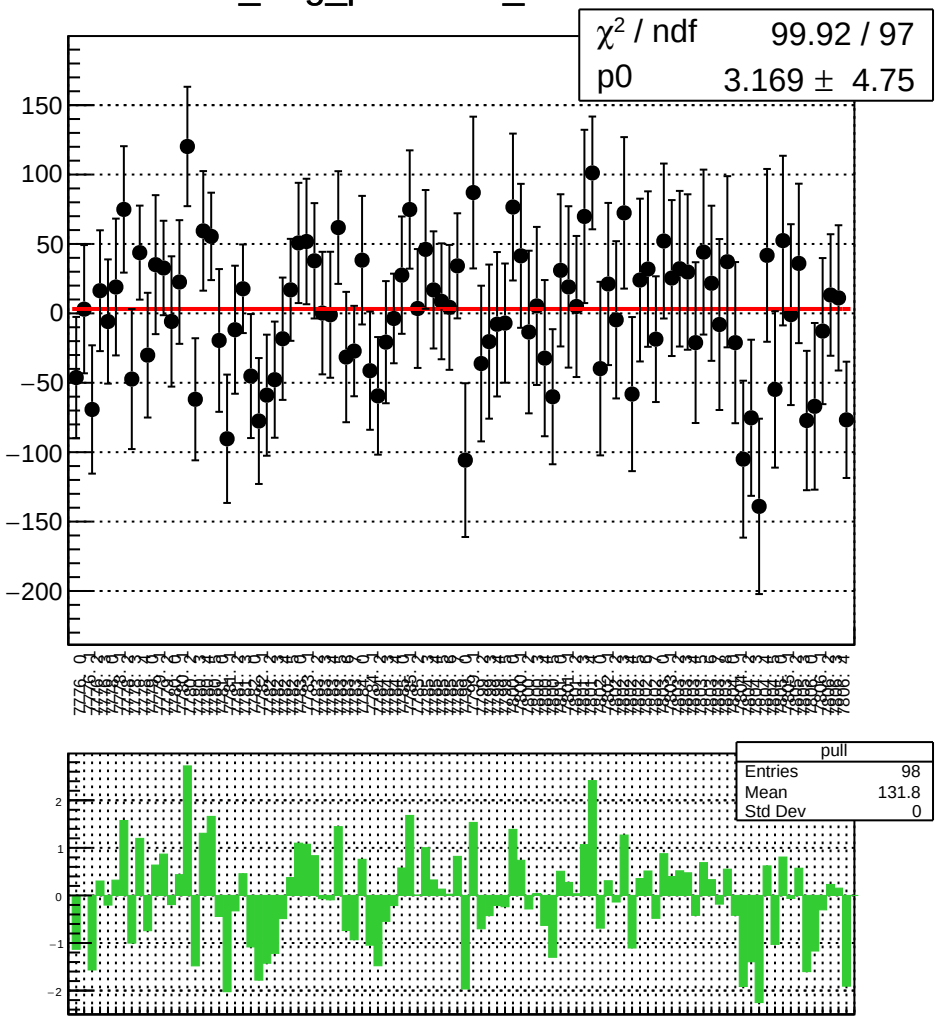

pull1D
Entries 98
Mean 0.007652
Std Dev 0.9099

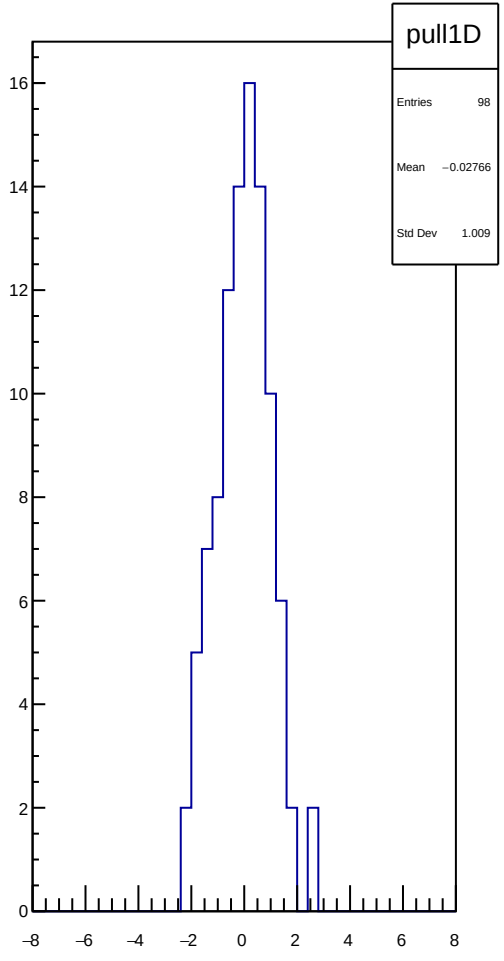

diff_dispE_bpm12X_rms vs run
χ² / ndf 3354 / 97
p0 9.425 ± 0.006768
11
10.5
10
9.5
9
8.5

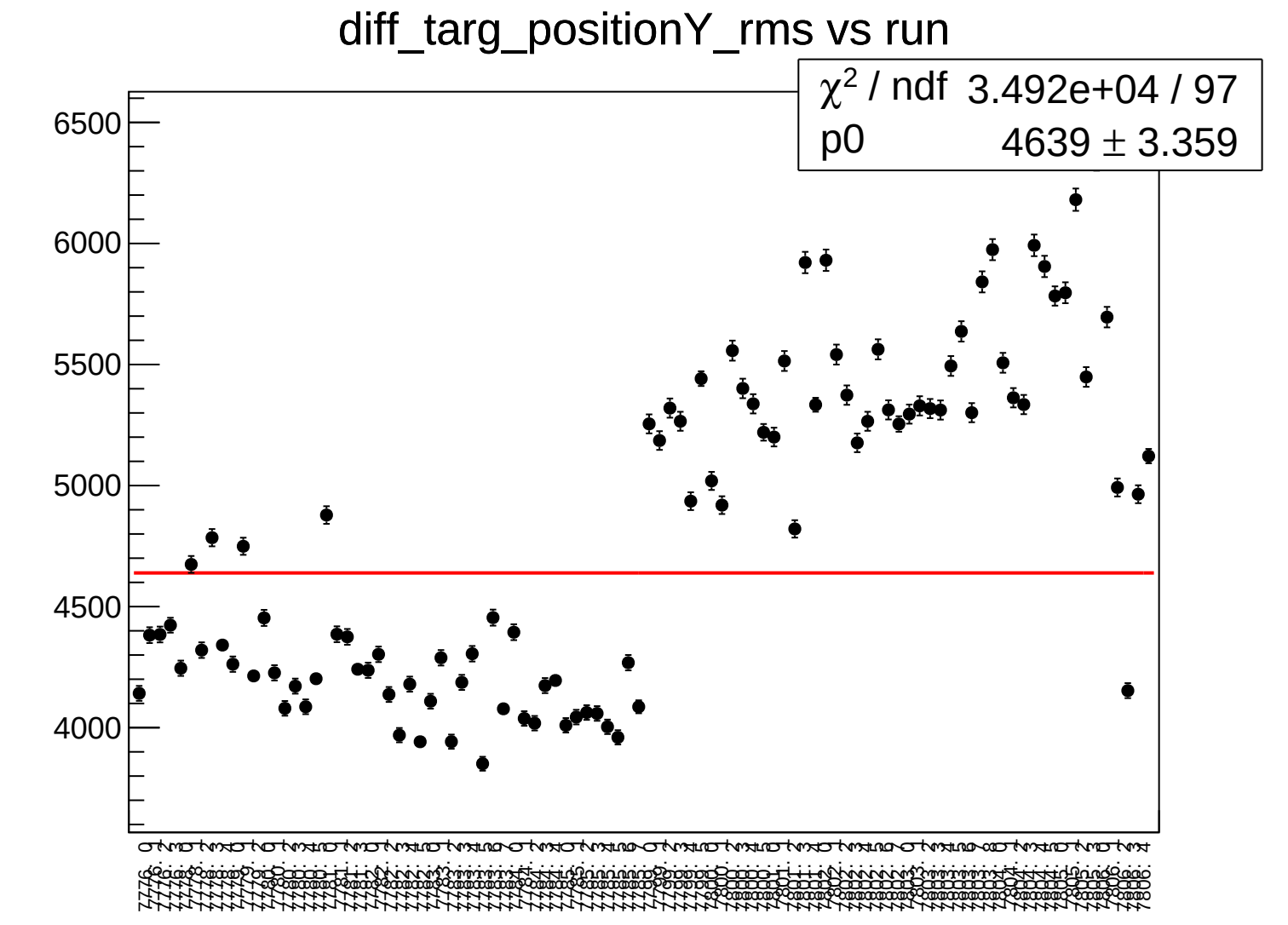

diff_targ_positionX_mean vs run
χ² / ndf 71.17 / 97
p0 −10.04 ± 25.04
pull
Entries 98
Mean −1552
Std Dev 0

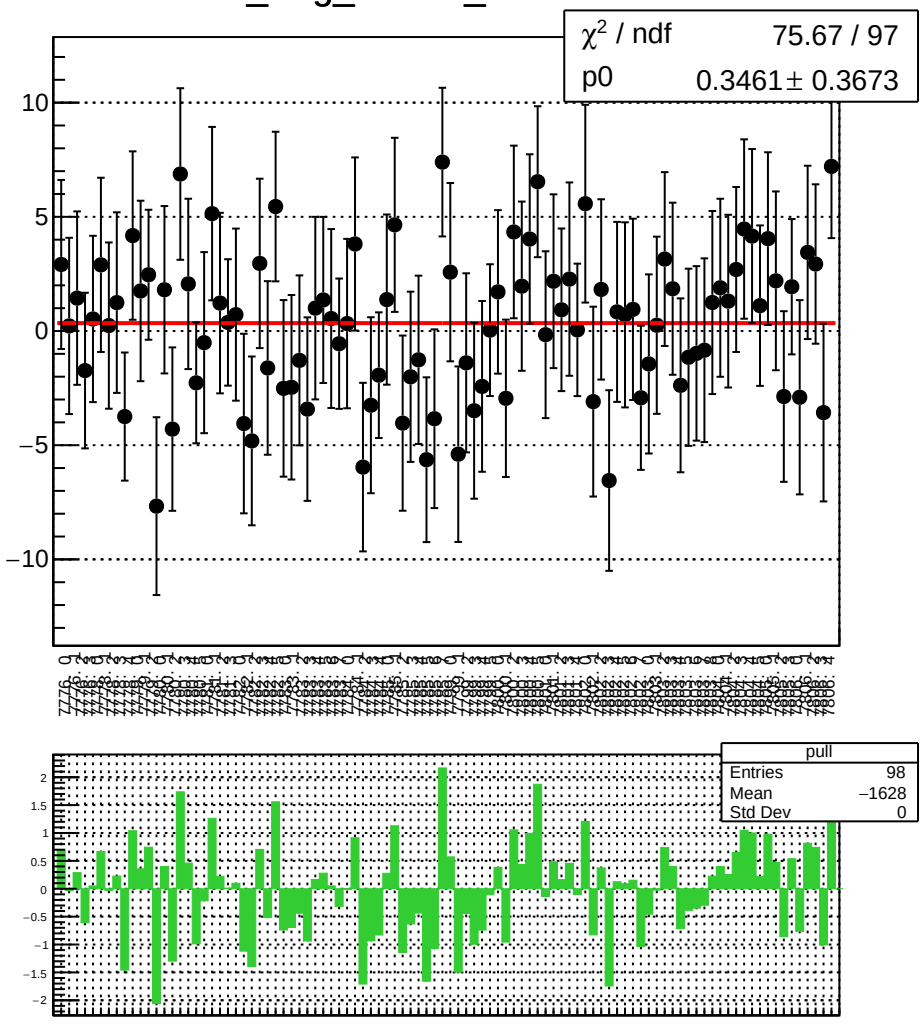

pull1D
Entries 98
Mean 0.002281
Std Dev 0.8522

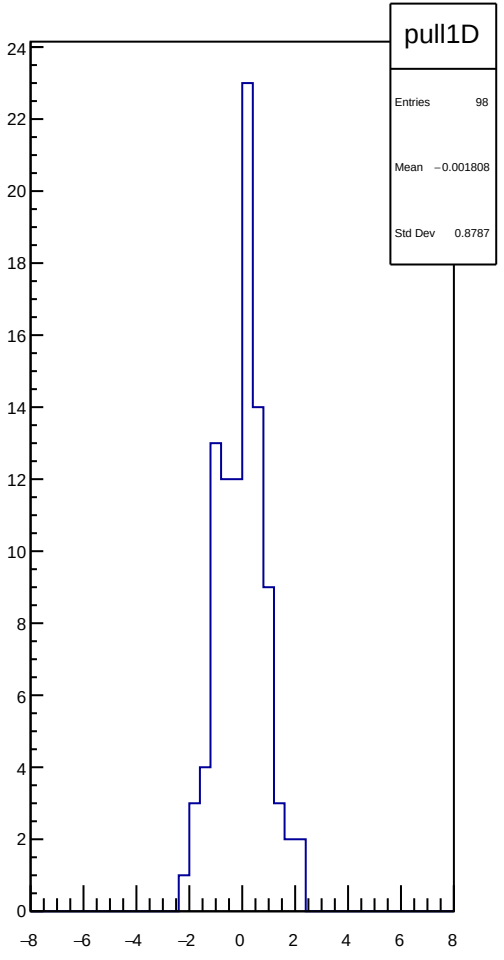

diff_targ_positionX_rms vs run
χ² / ndf 3681 / 97
p0 2.466e+04 ± 17.71
30000
29000
28000
27000
26000
25000
24000
23000
22000

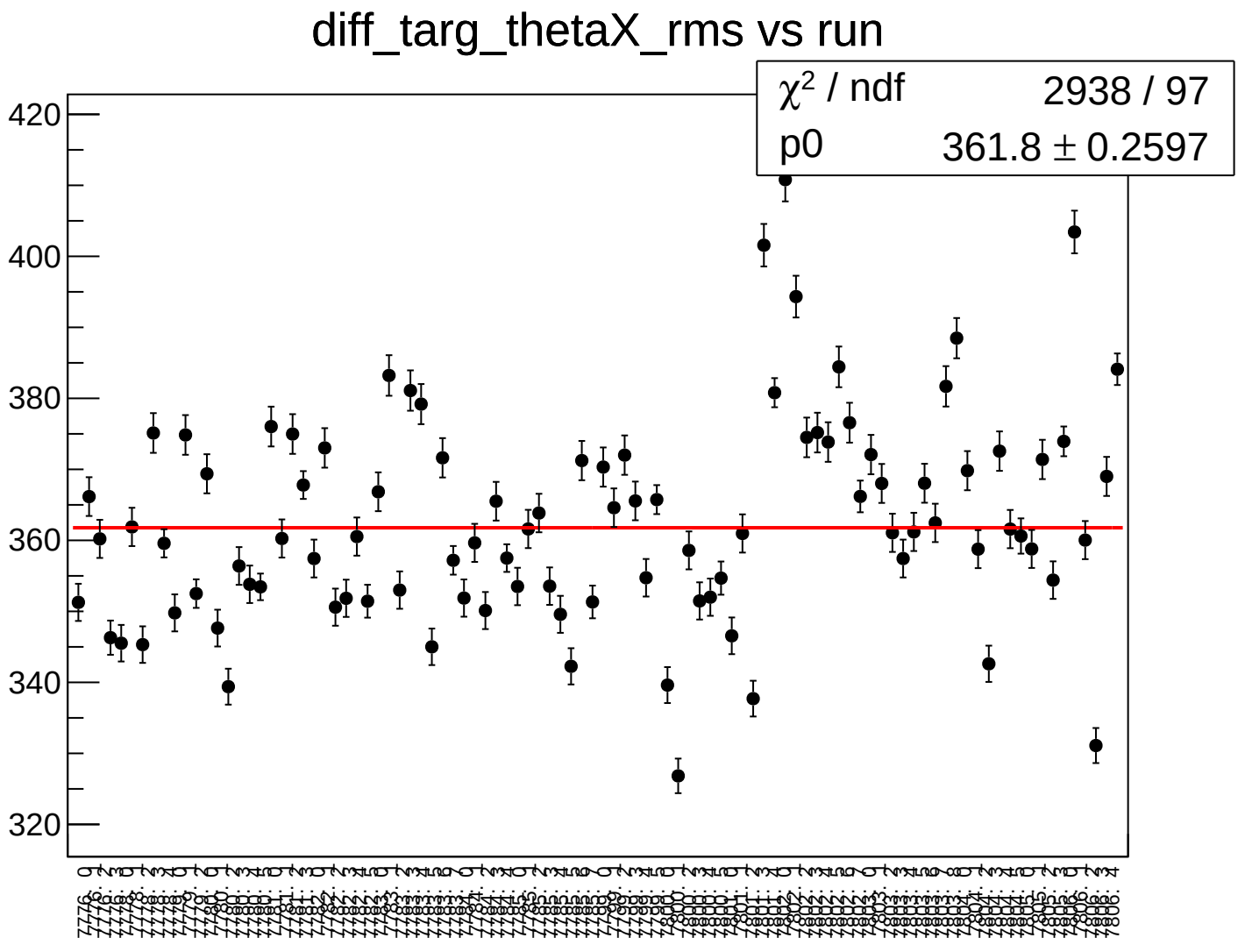

diff_targ_positionY_mean vs run
χ² / ndf 99.92 / 97
p0 3.169 ± 4.75
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 131.8
Std Dev 0
2
1
0
−1
−2

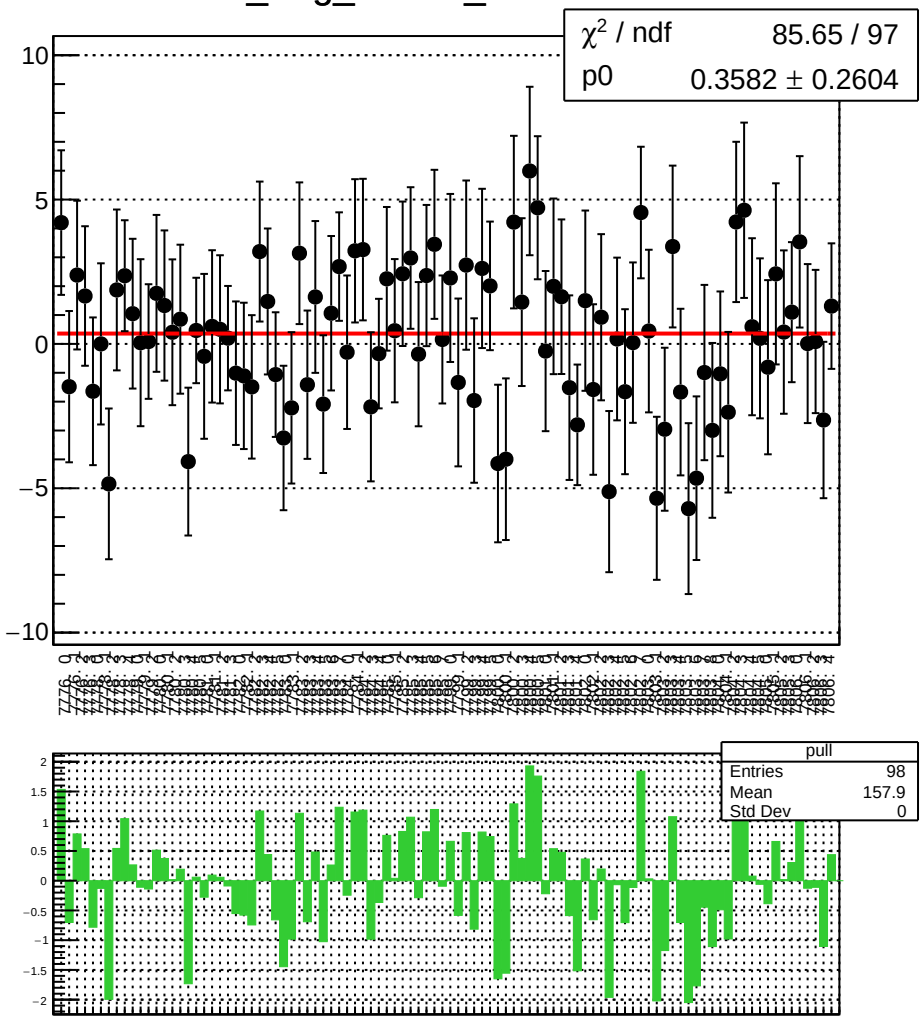

pull1D
Entries 98
Mean −0.02766
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

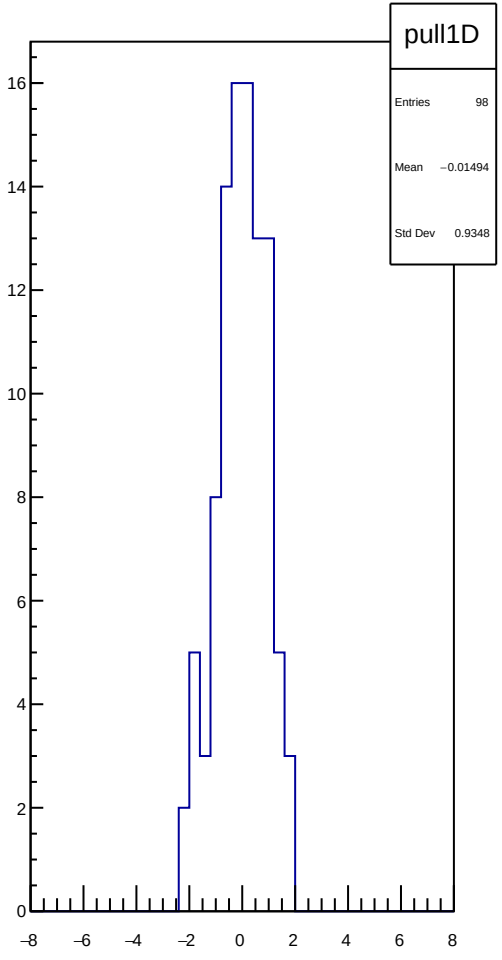

diff_targ_positionY_rms vs run
χ² / ndf 3.492e+04 / 97
p0 4639 ± 3.359
6500
6000
5500
5000
4500
4000

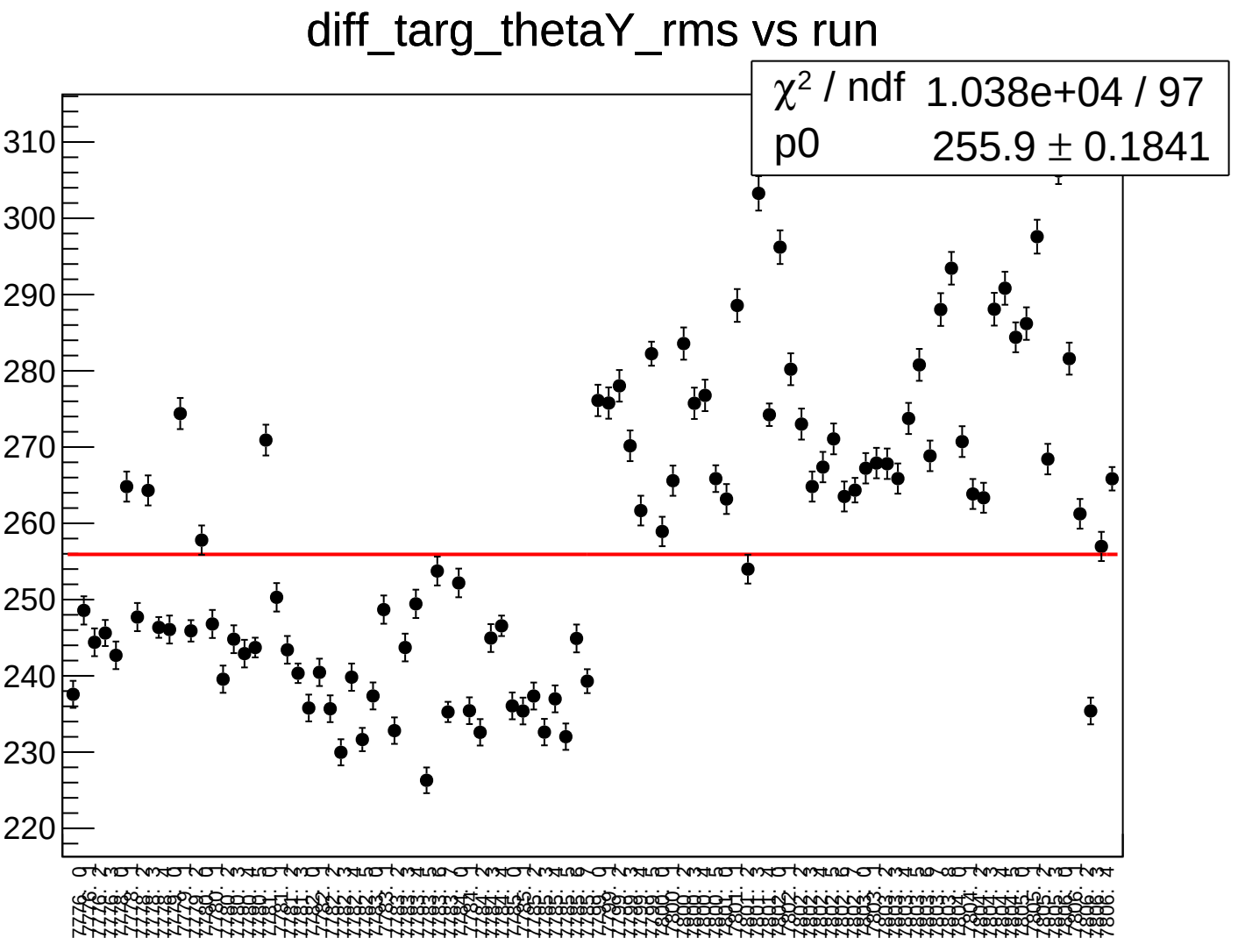

diff_targ_thetaX_mean vs run
χ² / ndf 75.67 / 97
p0 0.3461 ± 0.3673
pull
Entries 98
Mean −1628
Std Dev 0

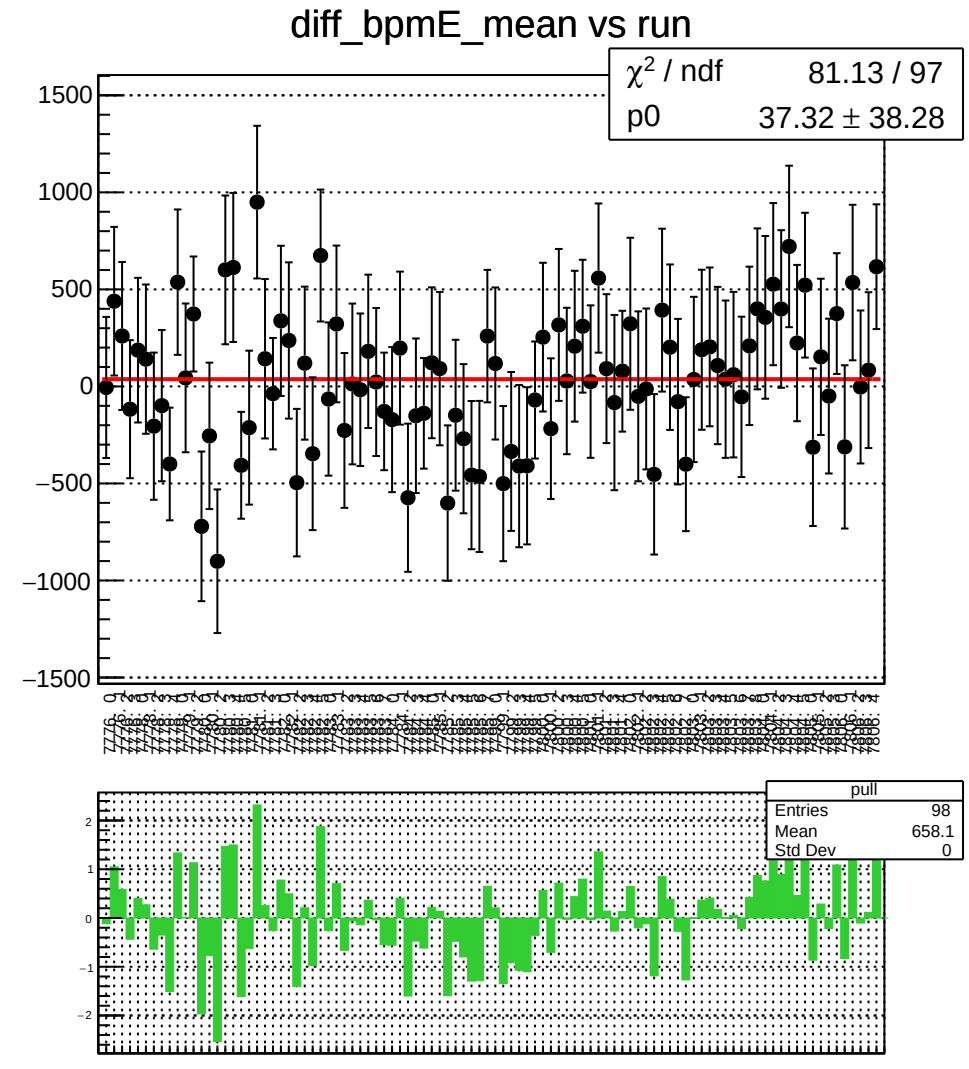

pull1D
Entries 98
Mean −0.001808
Std Dev 0.8787

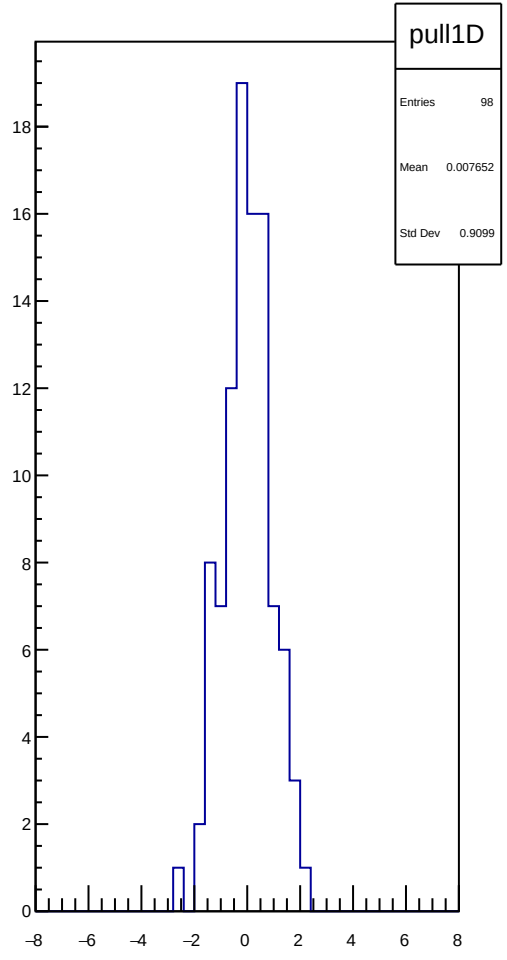

diff_targ_thetaX_rms vs run
χ² / ndf 2938 / 97
p0 361.8 ± 0.2597
420
400
380
360
340
320

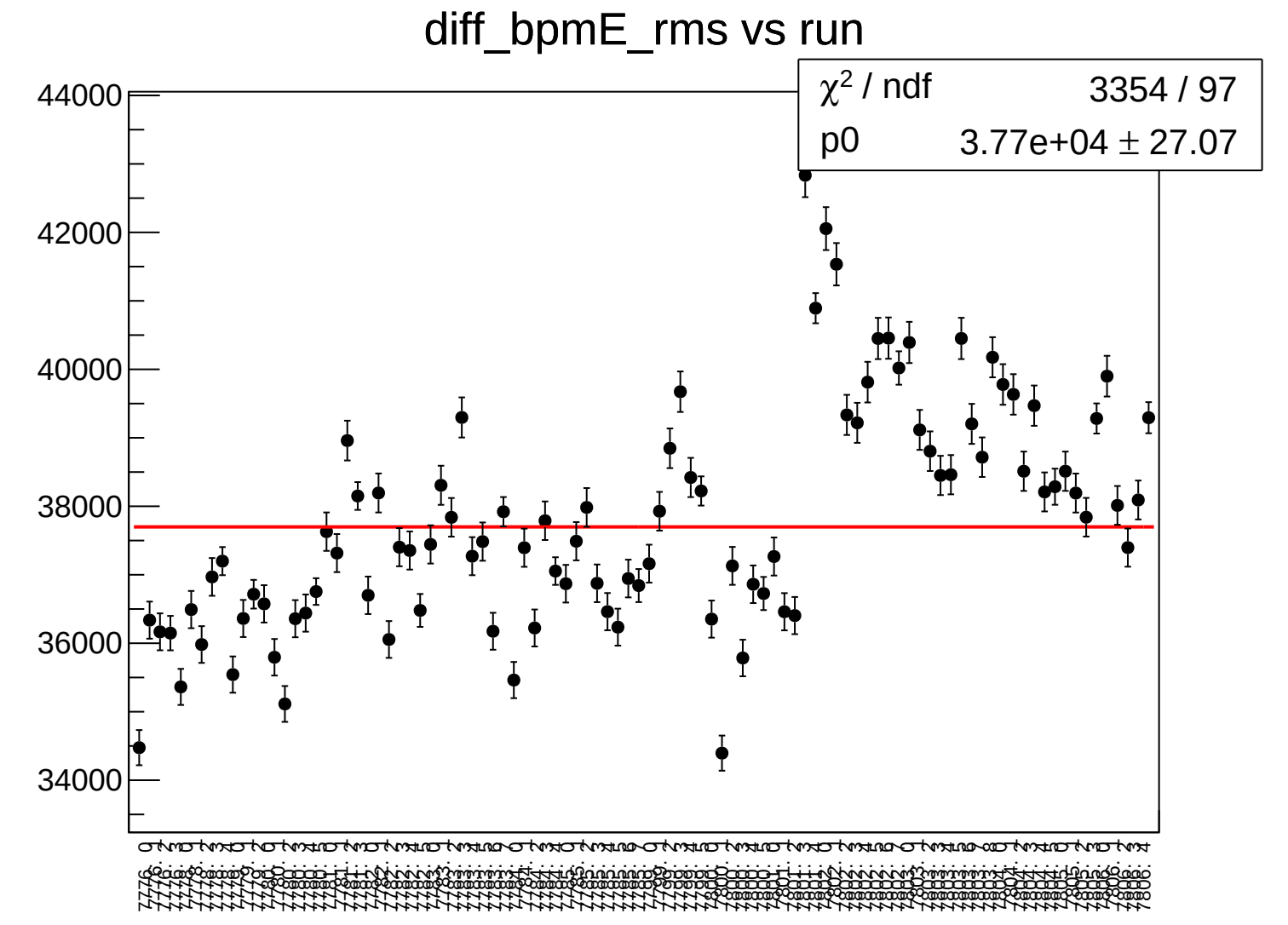

diff_targ_thetaY_mean vs run
χ² / ndf 85.65 / 97
p0 0.3582 ± 0.2604
pull
Entries 98
Mean 157.9
Std Dev 0

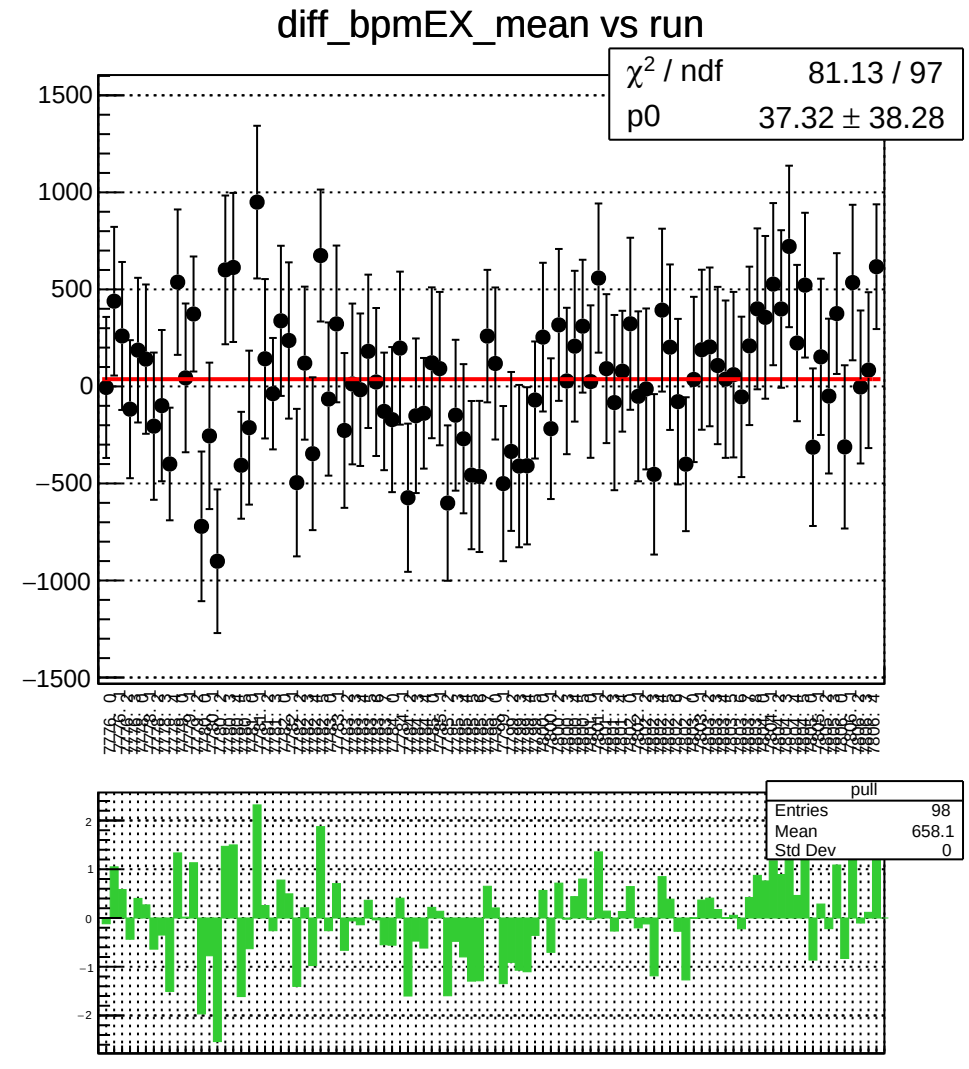

pull1D
Entries 98
Mean −0.01494
Std Dev 0.9348

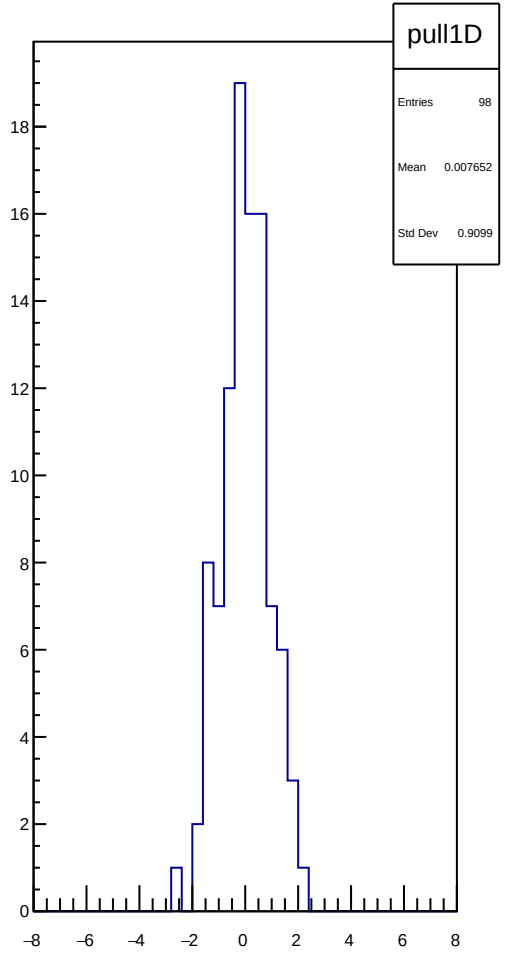

diff_targ_thetaY_rms vs run
χ² / ndf 1.038e+04 / 97
p0 255.9 ± 0.1841
310
300
290
280
270
260
250
240
230
220

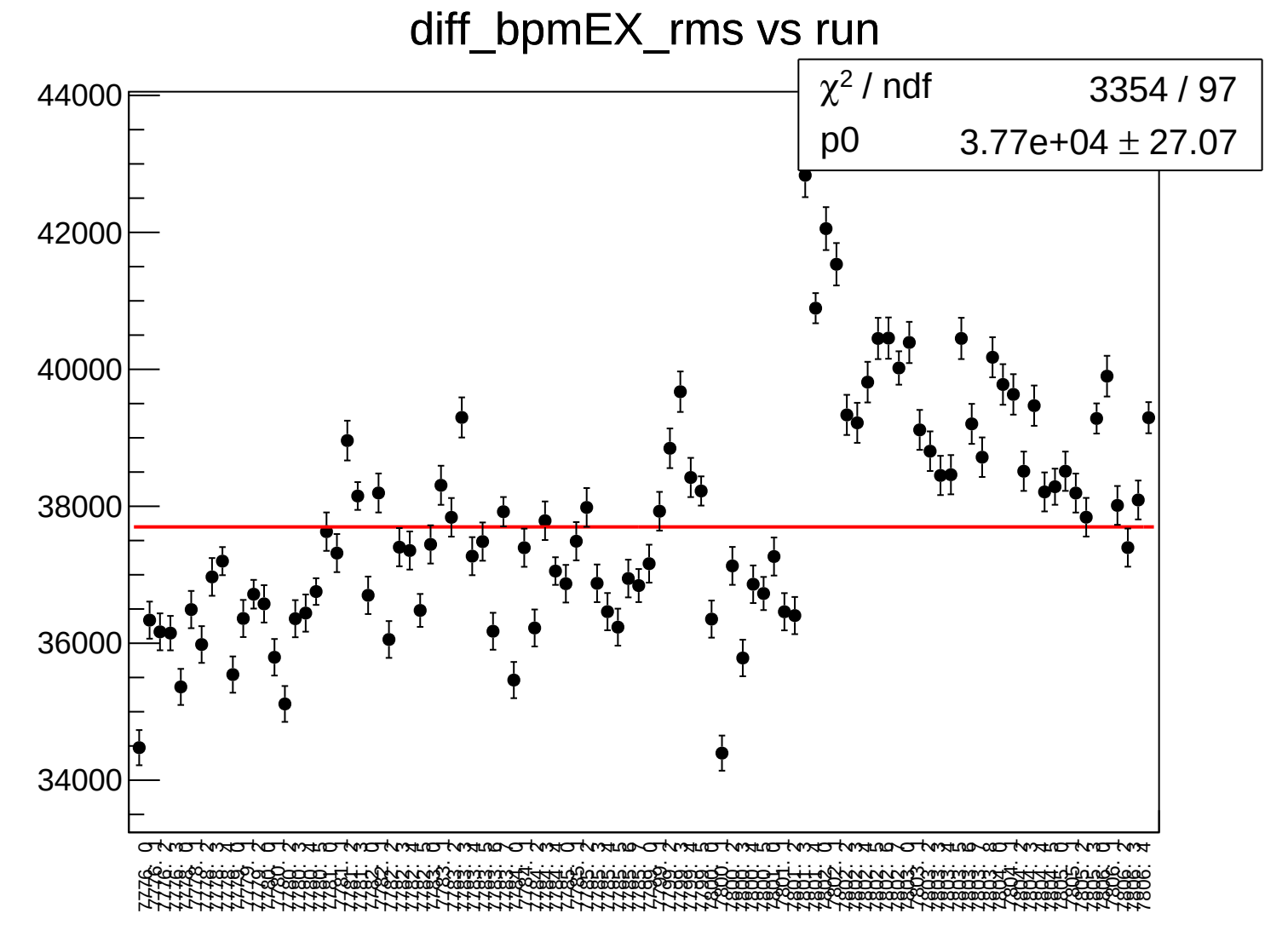

diff_bpmE_mean vs run
χ² / ndf 81.13 / 97
p0 37.32 ± 38.28
pull
Entries 98
Mean 658.1
Std Dev 0

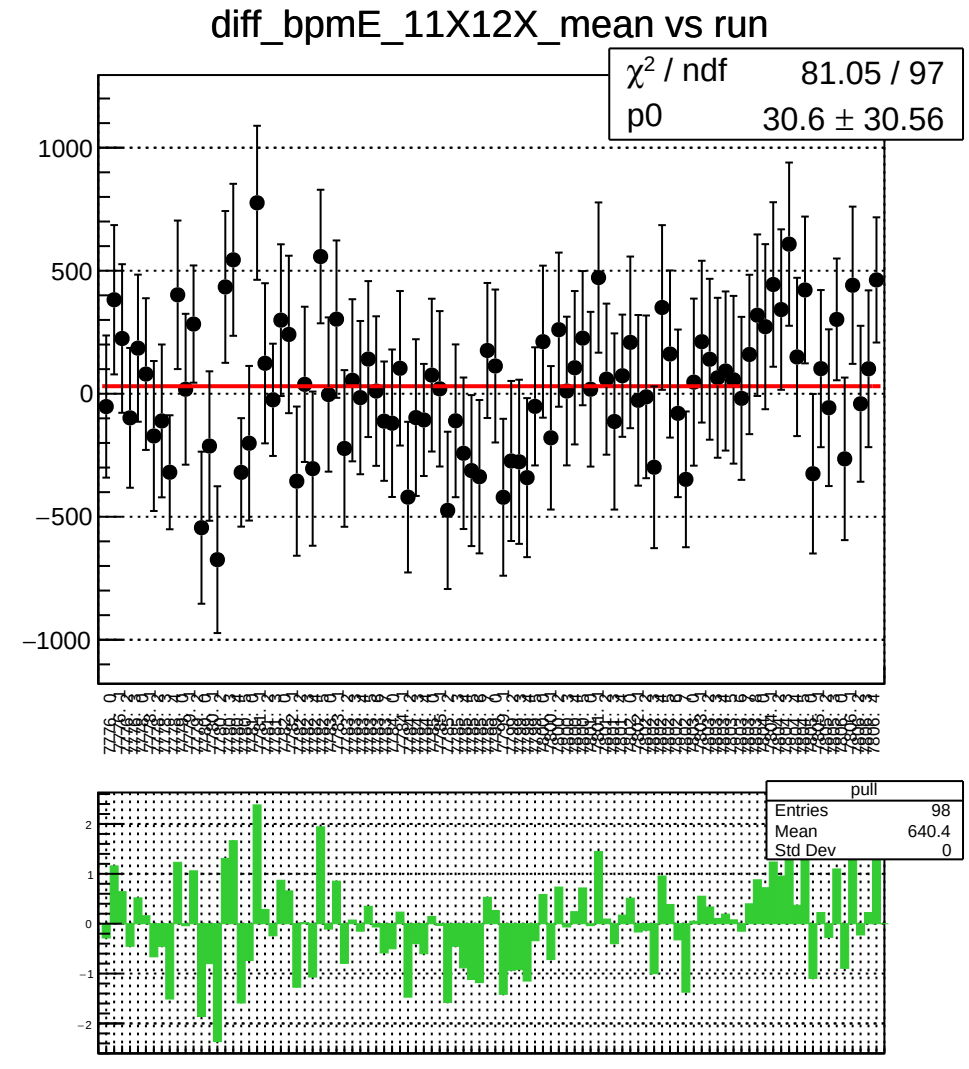

pull1D
Entries 98
Mean 0.007652
Std Dev 0.9099

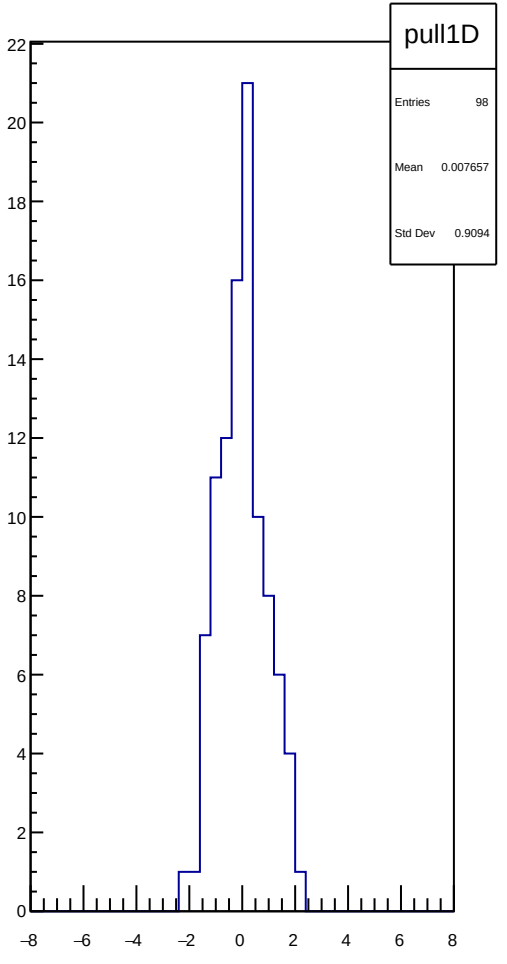

diff_bpmE_rms vs run
χ² / ndf 3354 / 97
p0 3.77e+04 ± 27.07
44000
42000
40000
38000
36000
34000

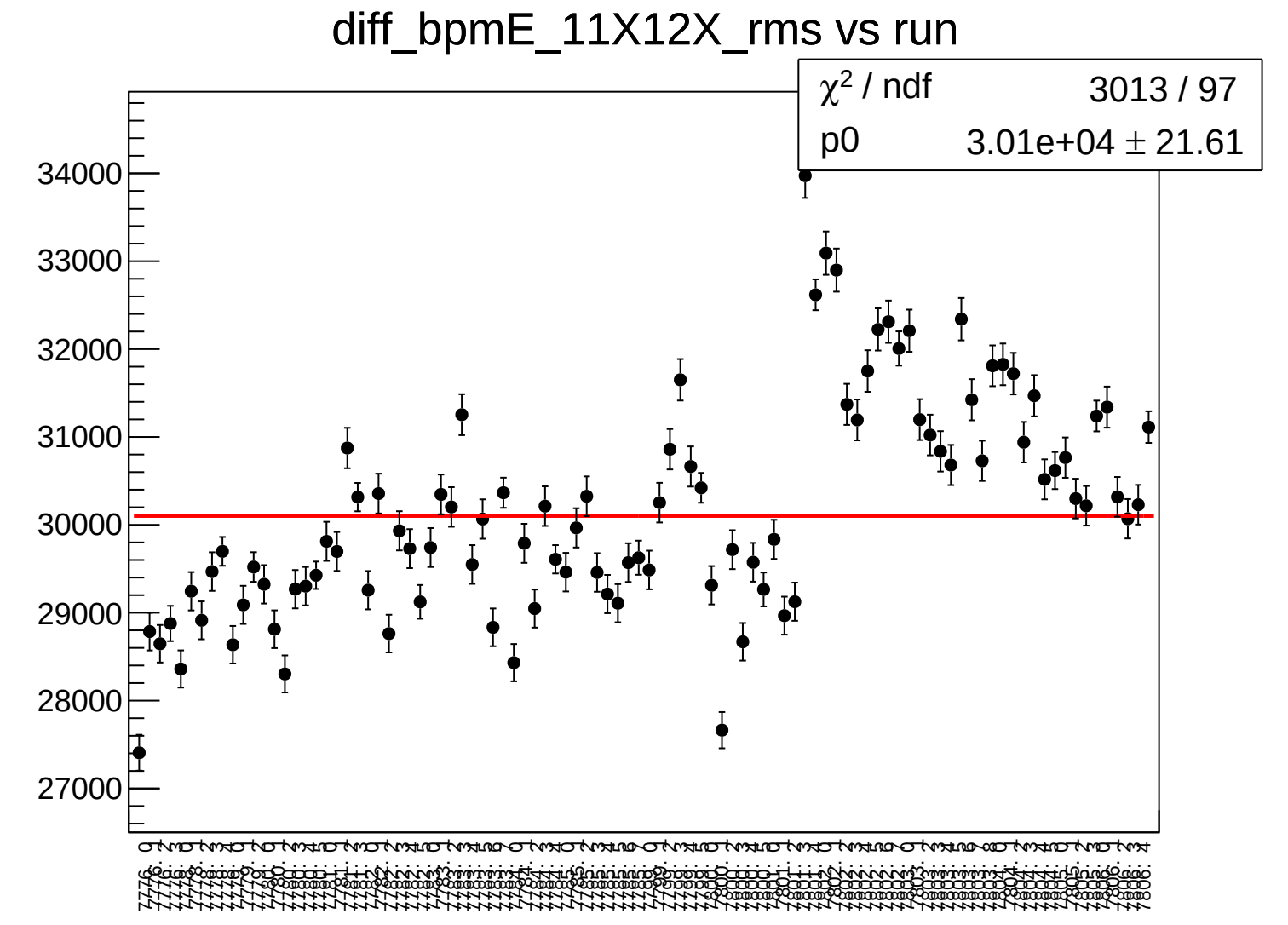

diff_bpmEX_mean vs run
χ² / ndf 81.13 / 97
p0 37.32 ± 38.28
1500
1000
500
0
−500
−1000
−1500
pull
Entries 98
Mean 658.1
Std Dev 0
2
1
0
−1
−2

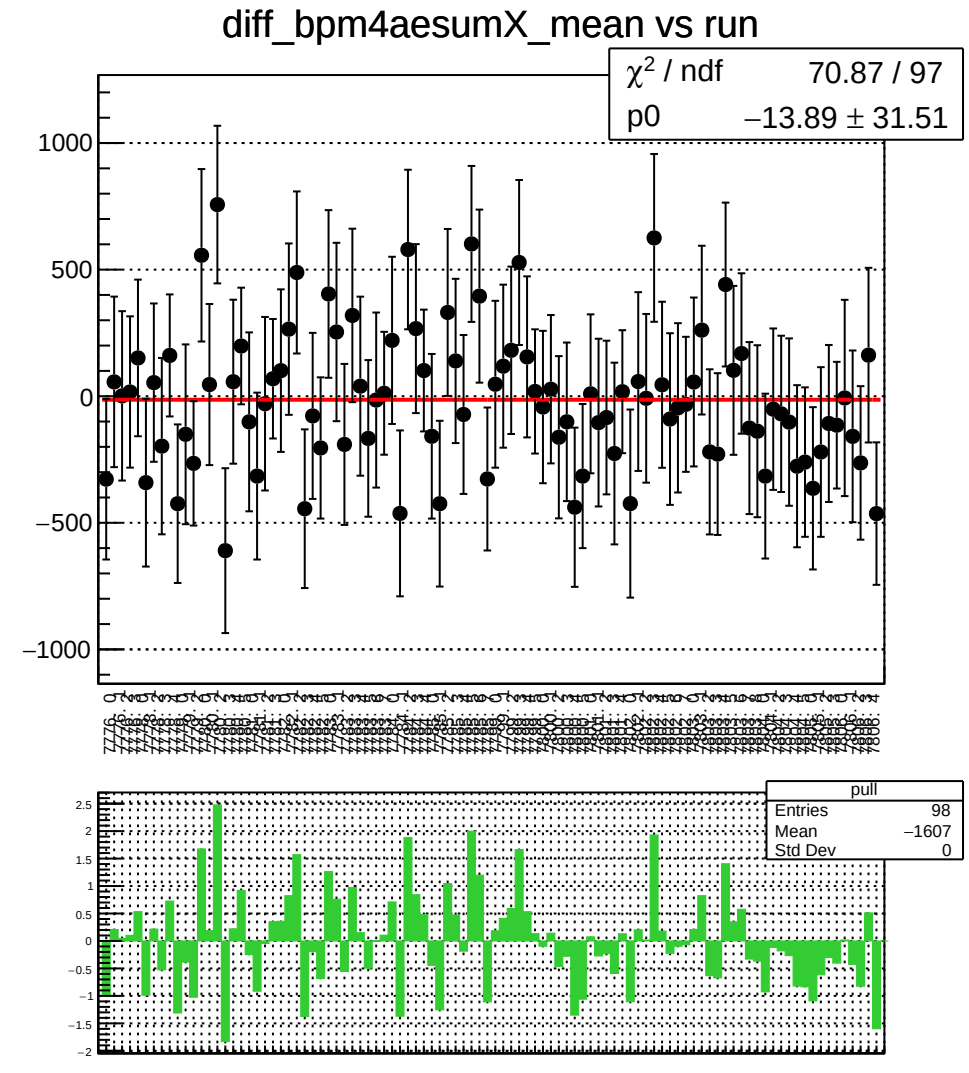

pull1D
Entries 98
Mean 0.007652
Std Dev 0.9099
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

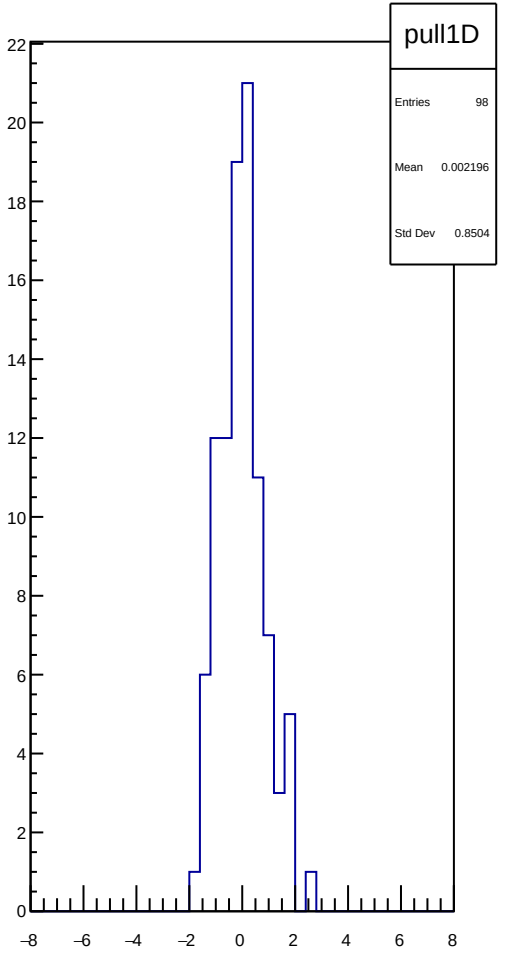

diff_bpmEX_rms vs run
χ^2 / ndf 3354 / 97
p0 3.77e+04 ± 27.07
44000
42000
40000
38000
36000
34000

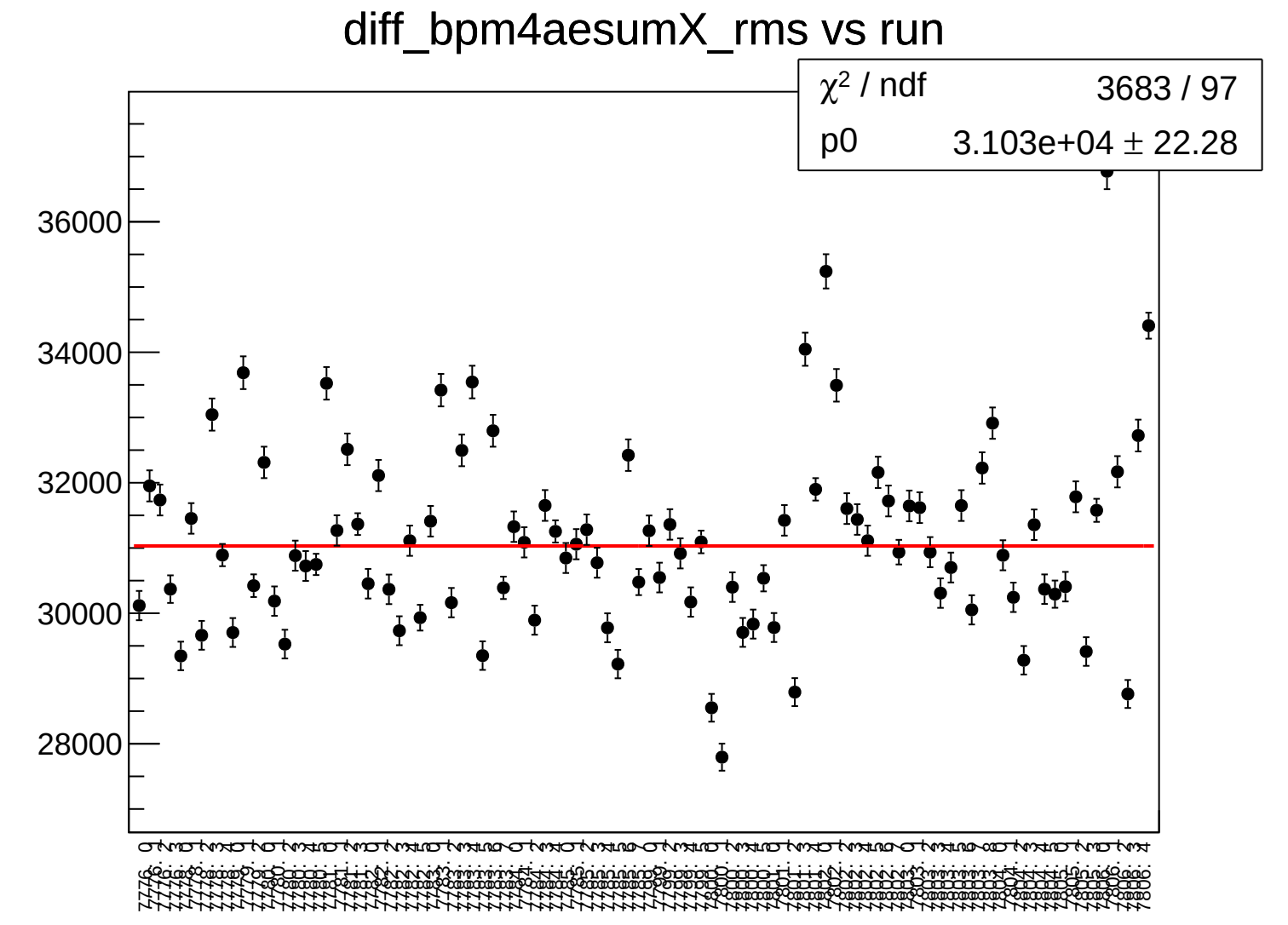

diff_bpmE_11X12X_mean vs run
χ^2 / ndf 81.05 / 97
p0 30.6 ± 30.56
1000
500
0
−500
−1000
pull
Entries 98
Mean 640.4
Std Dev 0
2
1
0
−1
−2

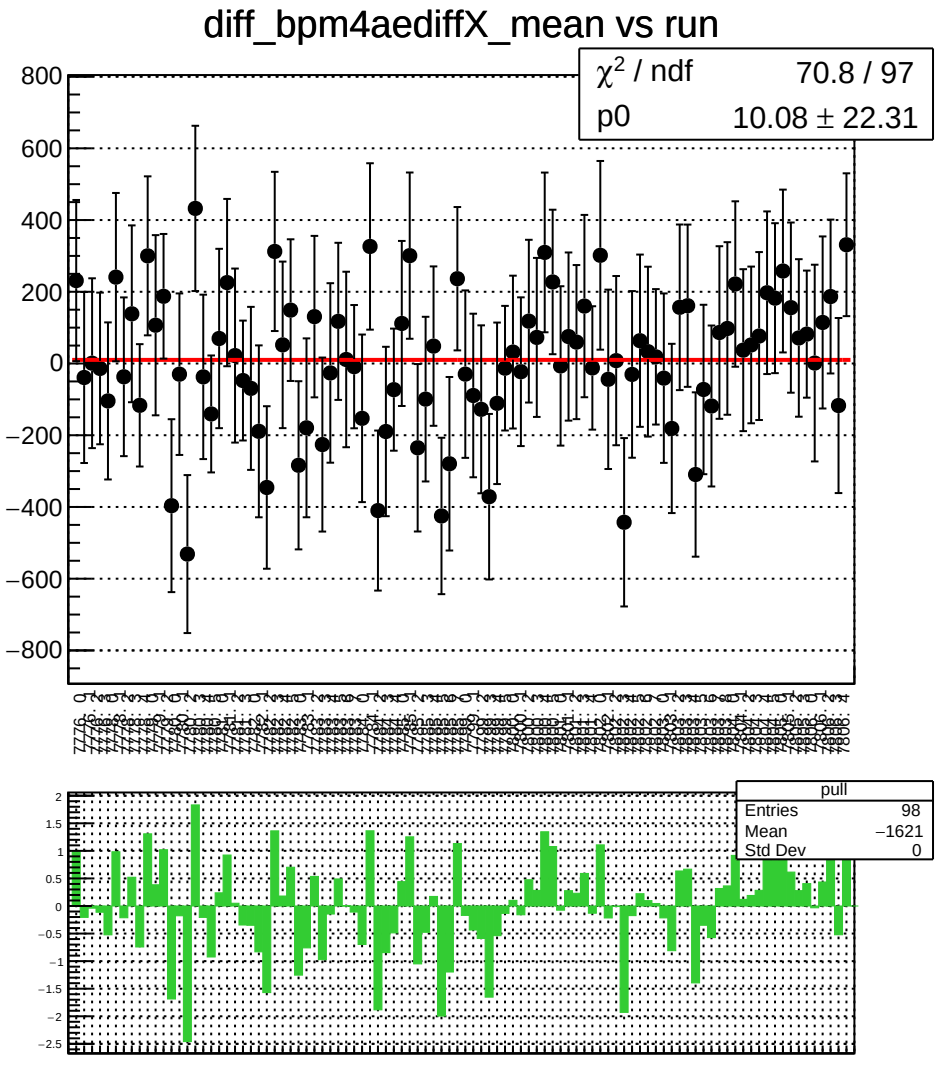

pull1D
Entries 98
Mean 0.007657
Std Dev 0.9094
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

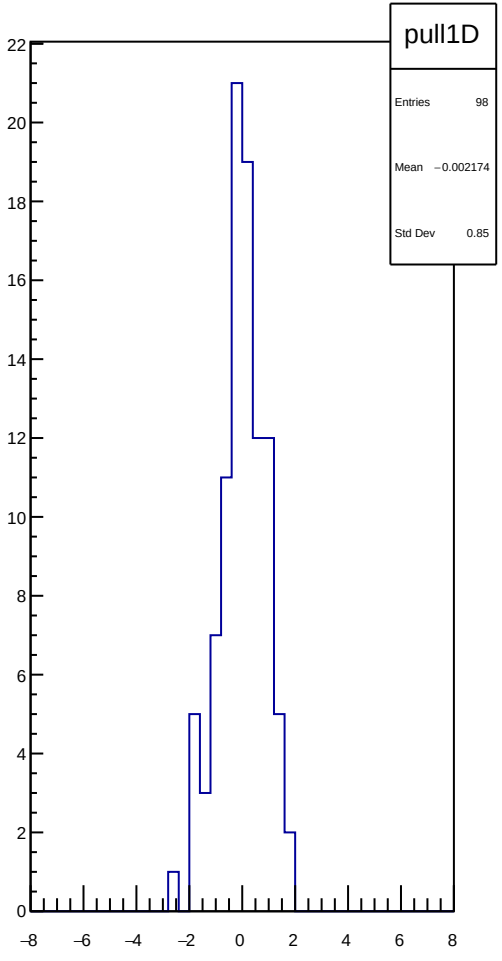

diff_bpmE_11X12X_rms vs run
χ² / ndf 3013 / 97
p0 3.01e+04 ± 21.61
34000
33000
32000
31000
30000
29000
28000
27000

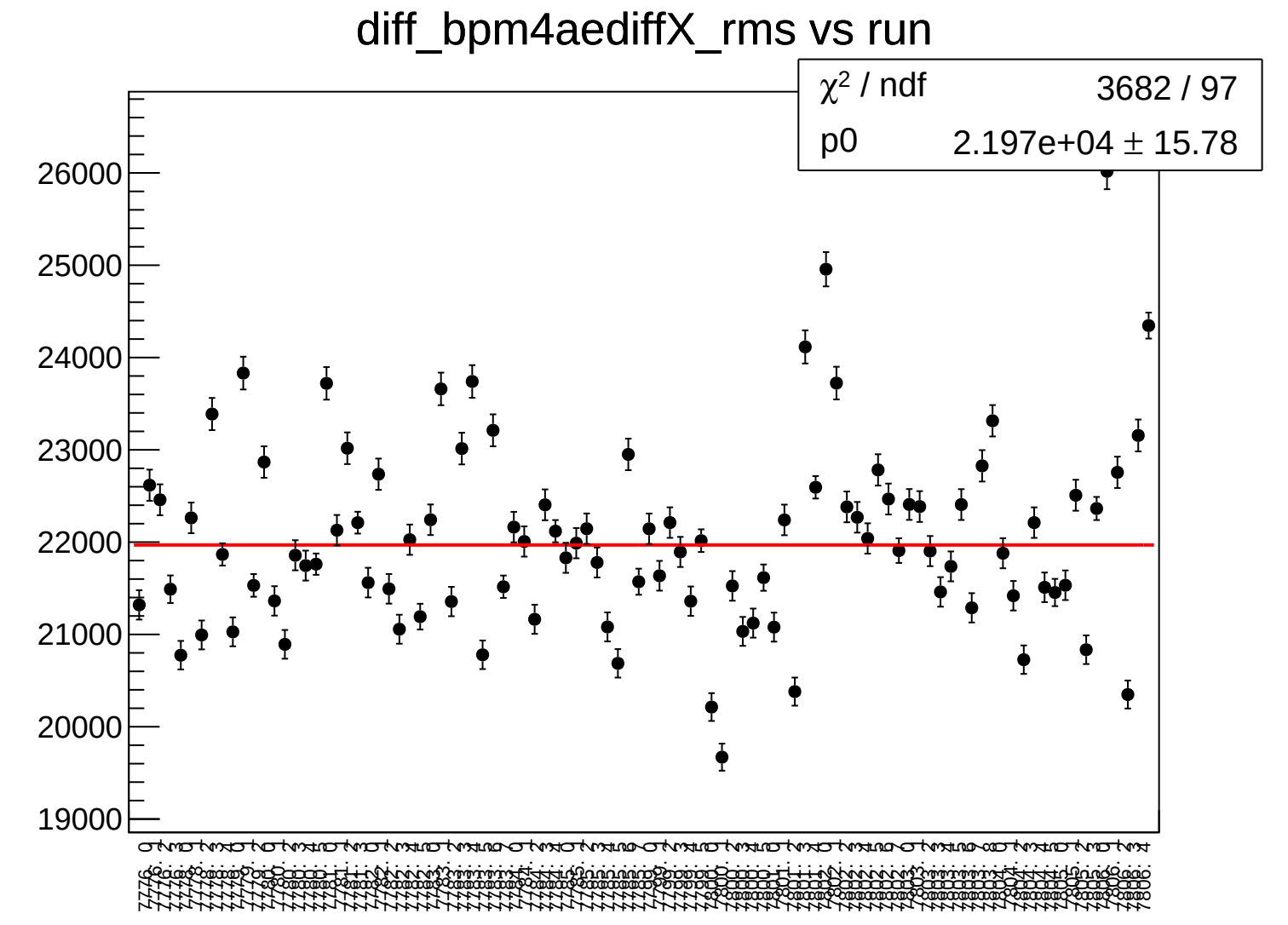

diff_bpm4aesumX_mean vs run
χ² / ndf 70.87 / 97
p0 −13.89 ± 31.51
1000
500
0
−500
−1000
pull
Entries 98
Mean −1607
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

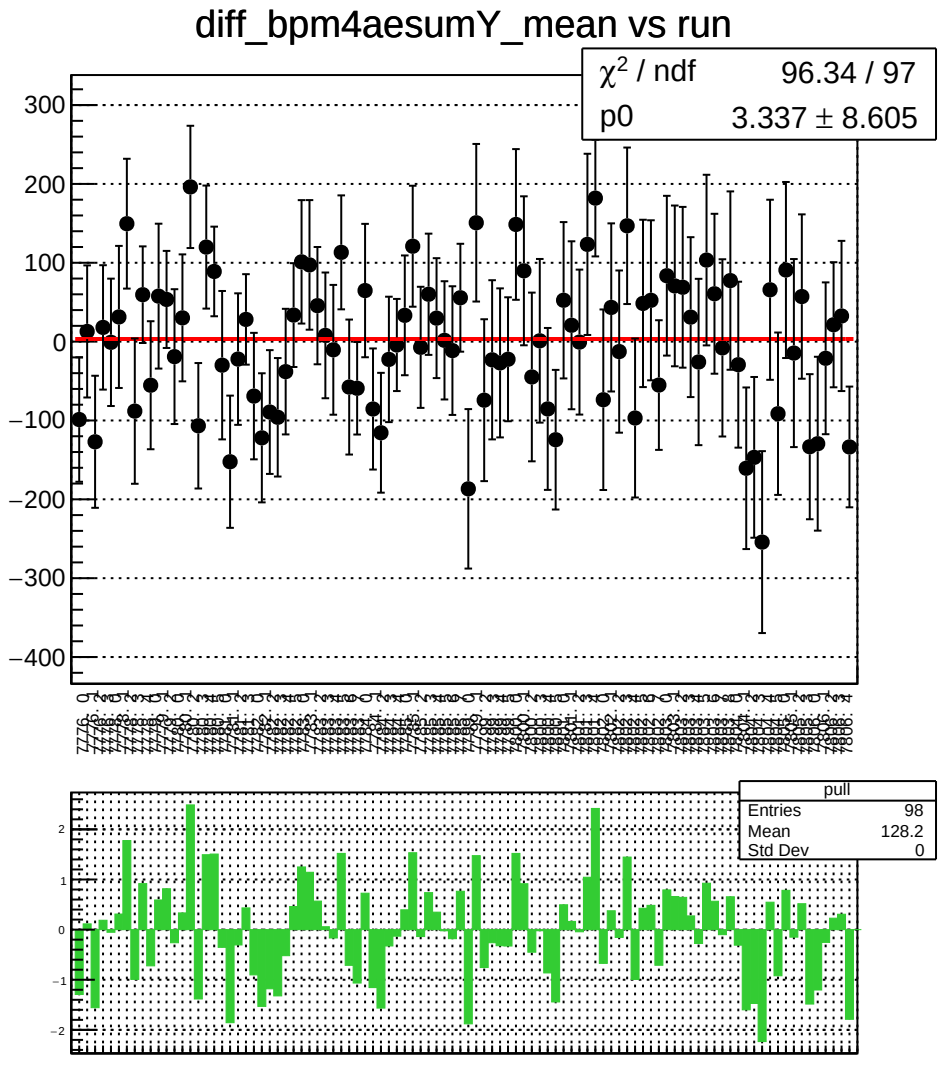

pull1D
Entries 98
Mean 0.002196
Std Dev 0.8504
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

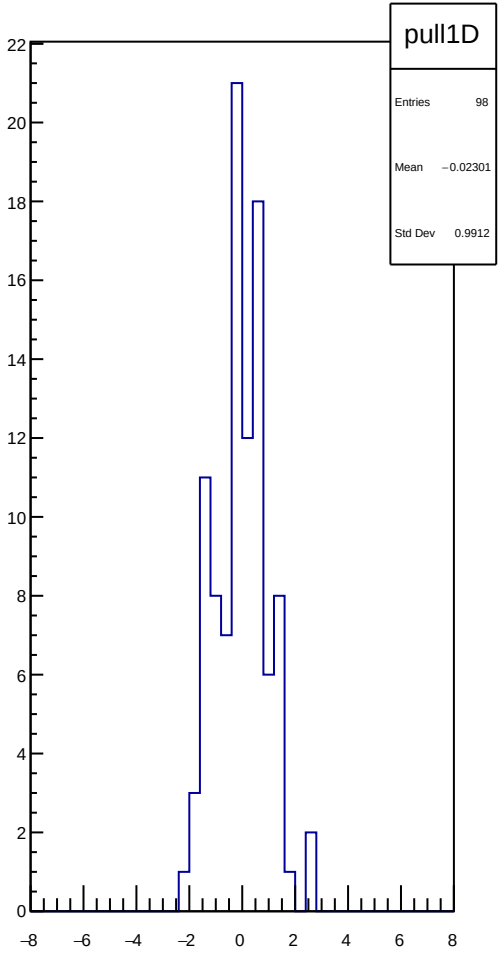

diff_bpm4aesumX_rms vs run
χ² / ndf 3683 / 97
p0 3.103e+04 ± 22.28
36000
34000
32000
30000
28000

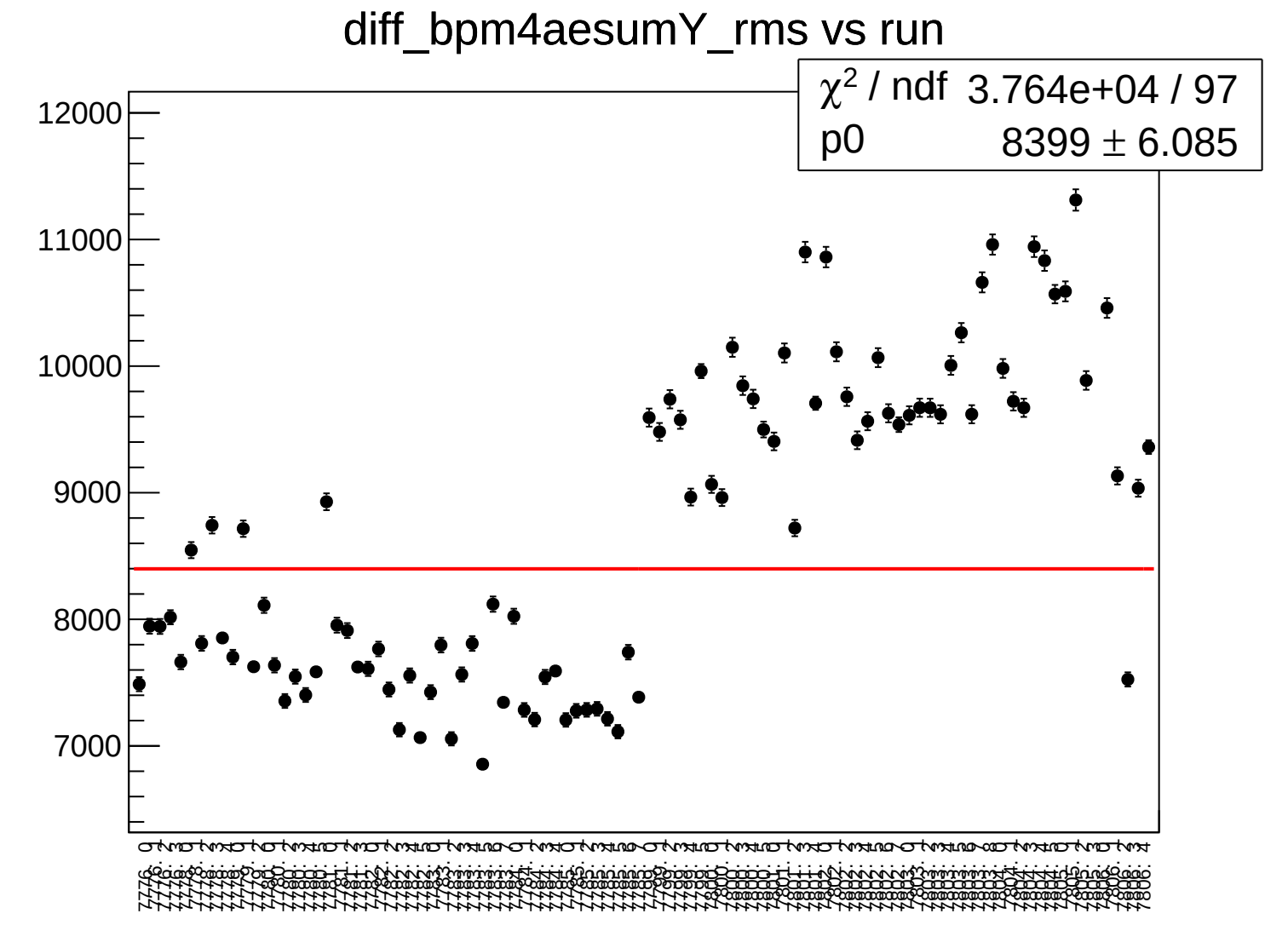

diff_bpm4aediffX_mean vs run
χ^2 / ndf 70.8 / 97
p0 10.08 ± 22.31
pull
Entries 98
Mean −1621
Std Dev 0

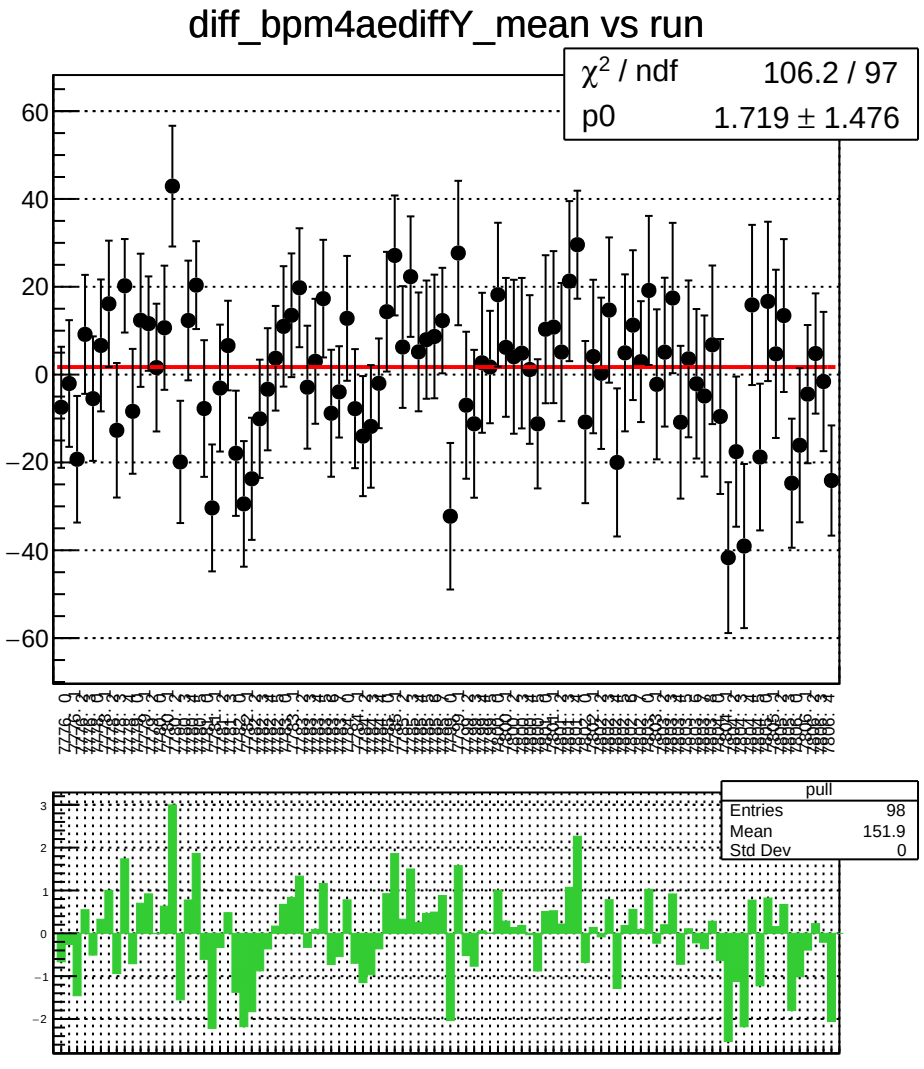

pull1D
Entries 98
Mean −0.002174
Std Dev 0.85

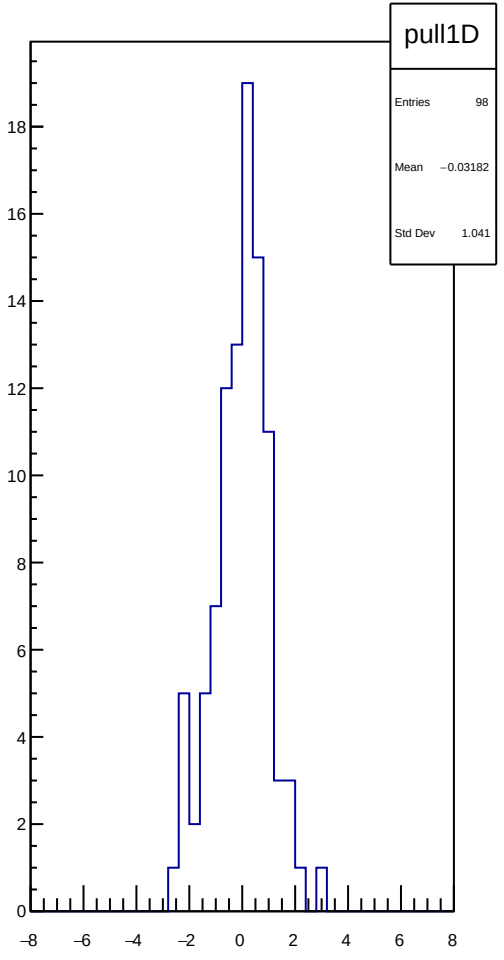

diff_bpm4aediffX_rms vs run
χ² / ndf 3682 / 97
p0 2.197e+04 ± 15.78
26000
25000
24000
23000
22000
21000
20000
19000

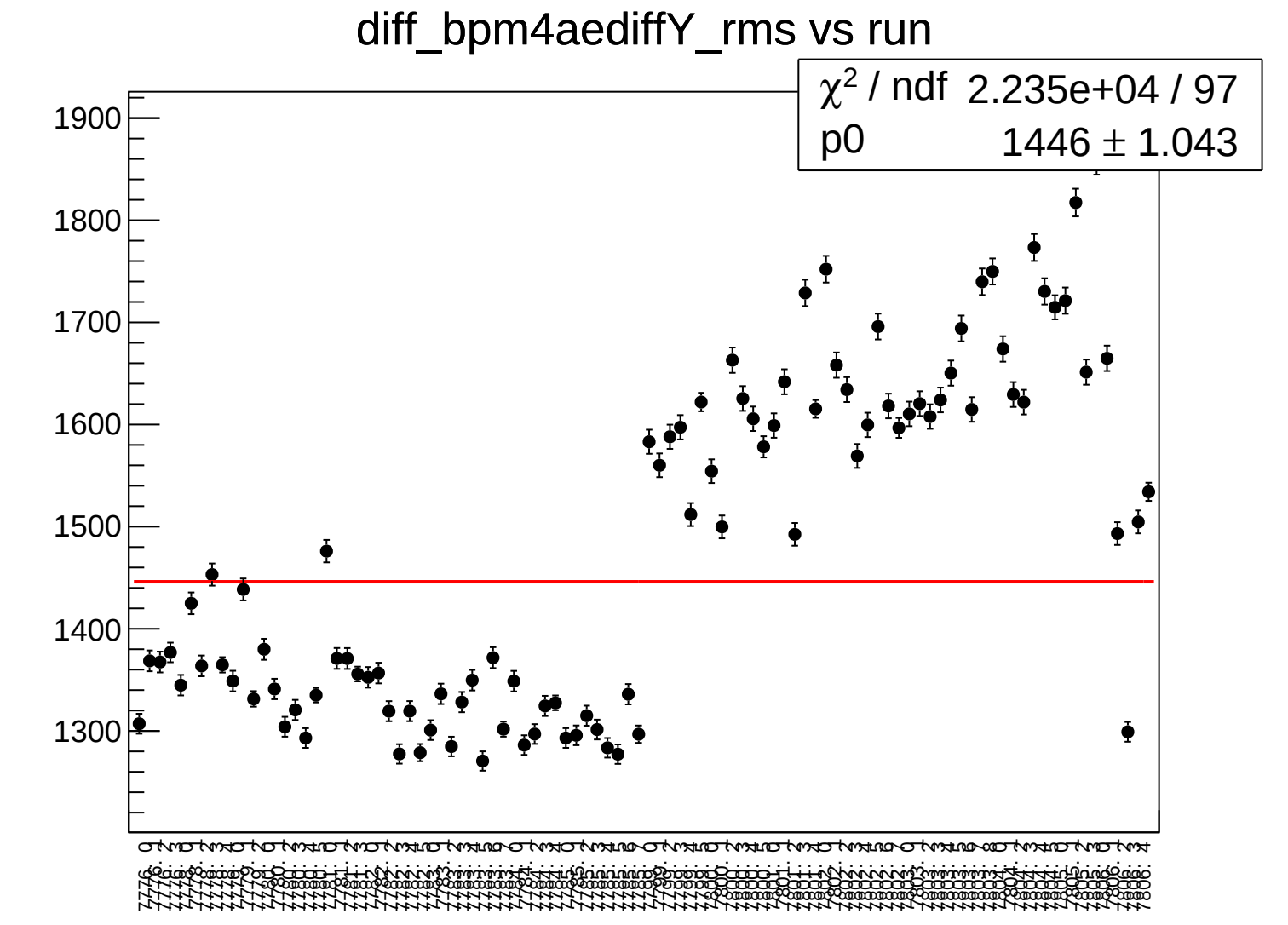

diff_bpm4aesumY_mean vs run
χ² / ndf 96.34 / 97
p0 3.337 ± 8.605
300
200
100
0
−100
−200
−300
−400
pull
Entries 98
Mean 128.2
Std Dev 0
2
1
0
−1
−2

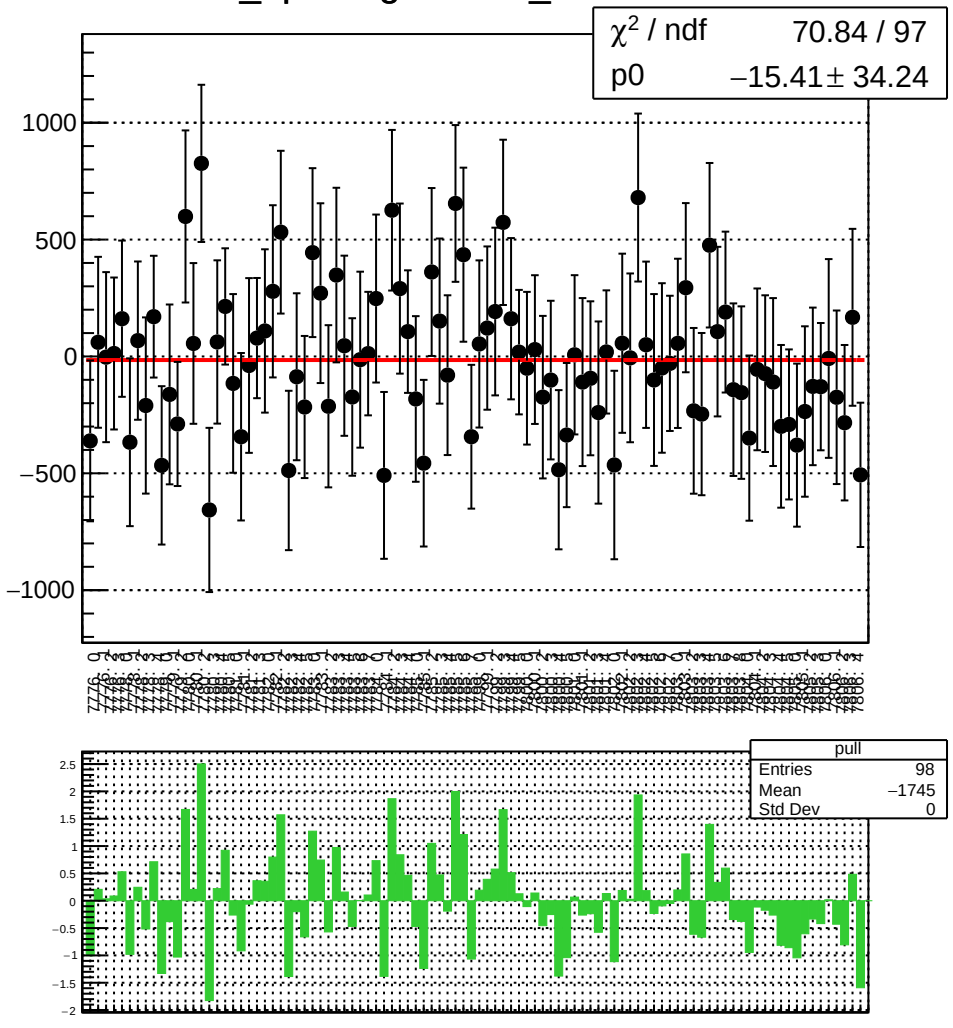

pull1D
Entries 98
Mean −0.02301
Std Dev 0.9912
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

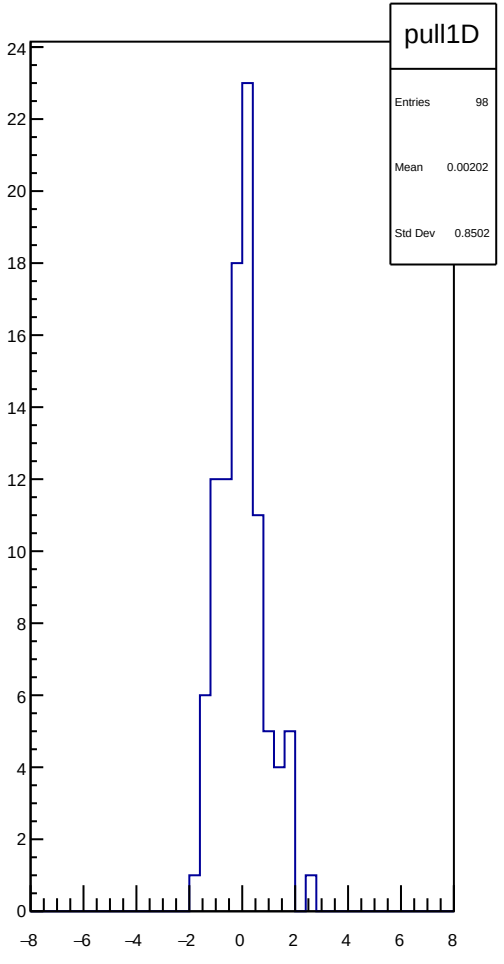

diff_bpm4aesumY_rms vs run
χ² / ndf 3.764e+04 / 97
p0 8399 ± 6.085
12000
11000
10000
9000
8000
7000

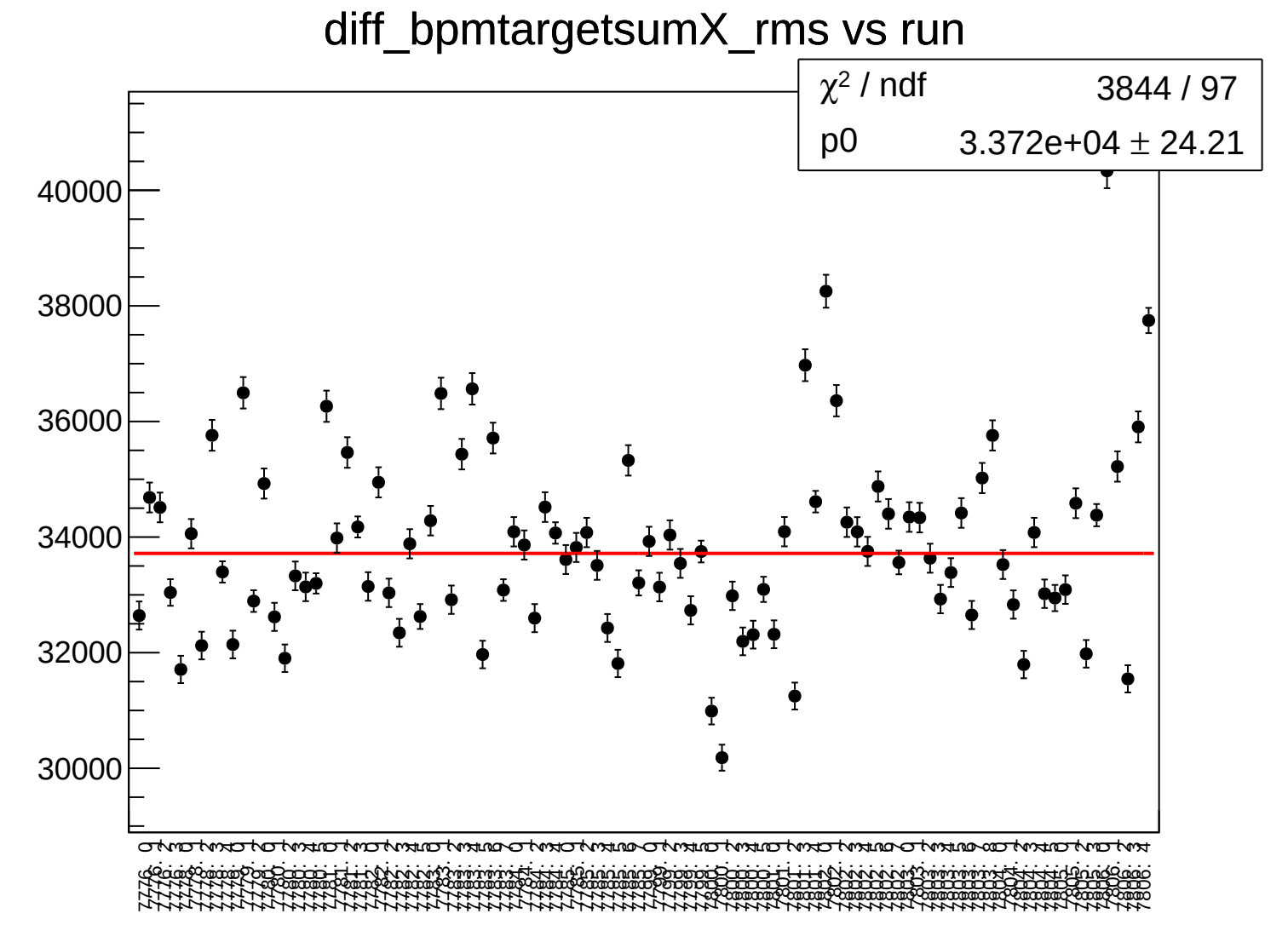

diff_bpm4aediffY_mean vs run
χ² / ndf 106.2 / 97
p0 1.719 ± 1.476
pull
Entries 98
Mean 151.9
Std Dev 0

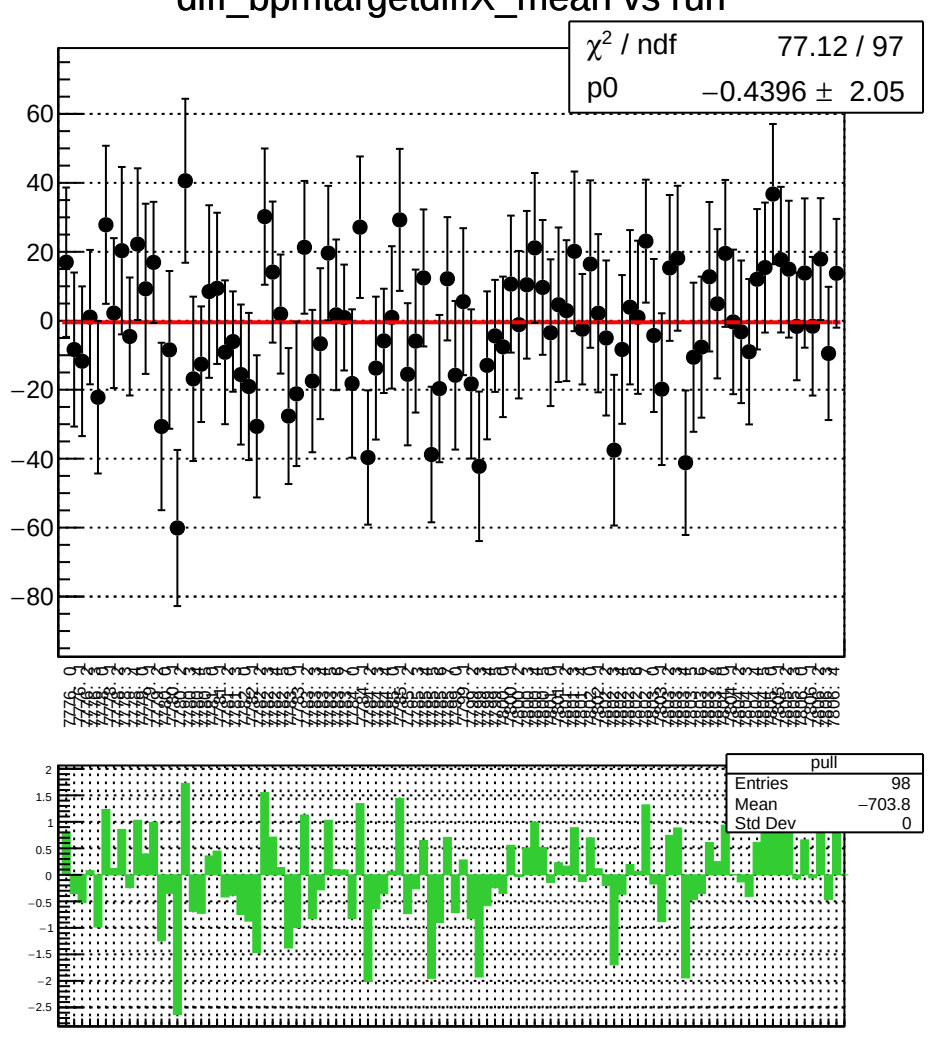

pull1D
Entries 98
Mean −0.03182
Std Dev 1.041

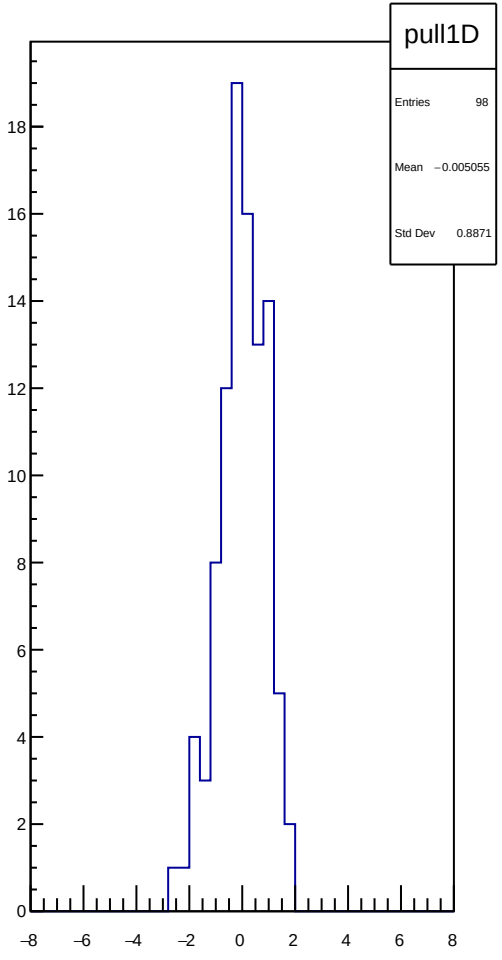

diff_bpm4aediffY_rms vs run
χ² / ndf 2.235e+04 / 97
p0 1446 ± 1.043
1900
1800
1700
1600
1500
1400
1300

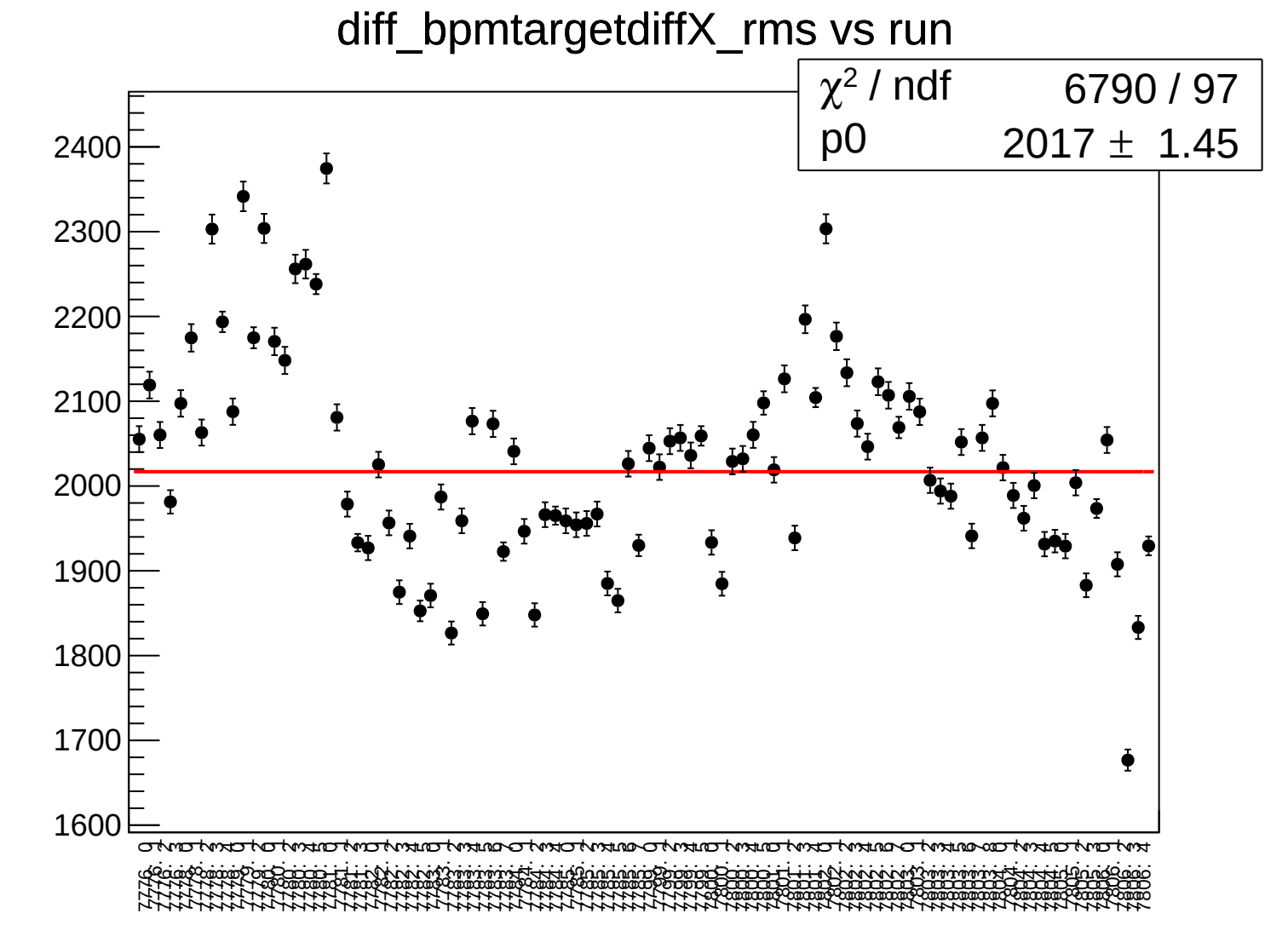

diff_bpmtargetsumX_mean vs run
χ² / ndf 70.84 / 97
p0 −15.41 ± 34.24
1000
500
0
−500
−1000
pull
Entries 98
Mean −1745
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

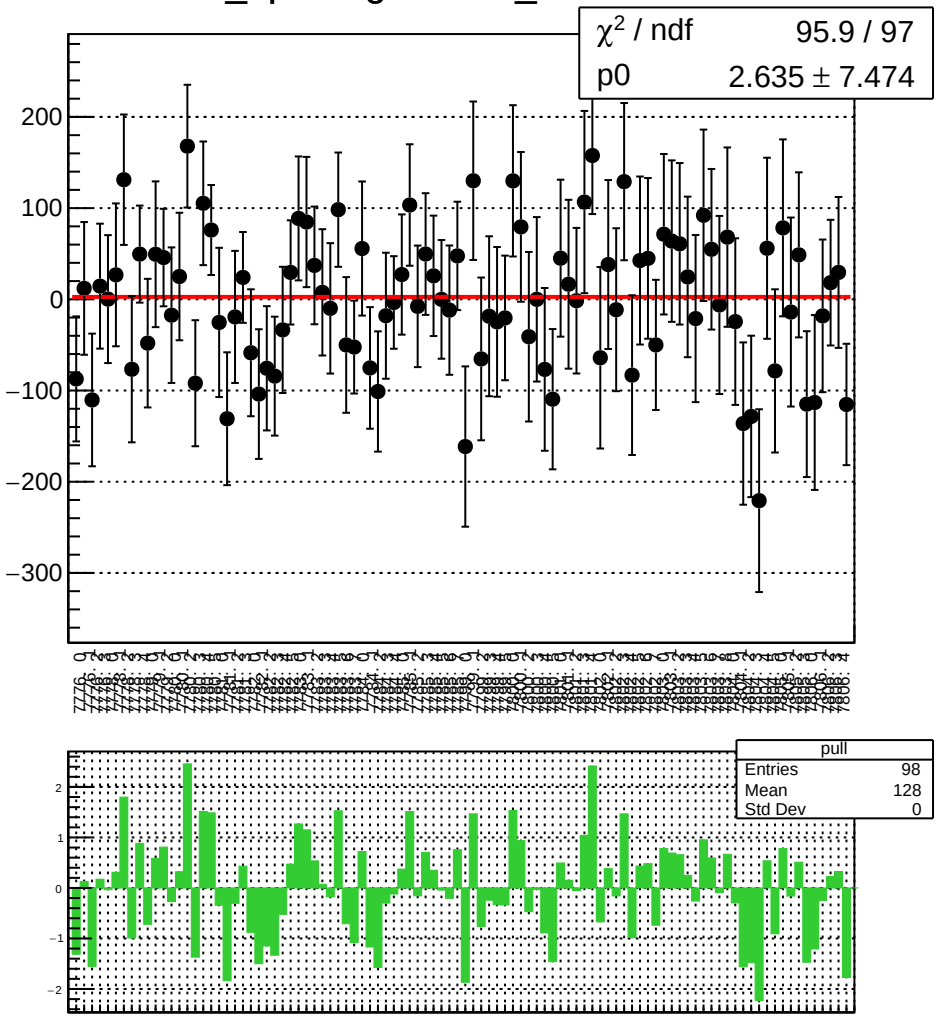

pull1D
Entries 98
Mean 0.00202
Std Dev 0.8502
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

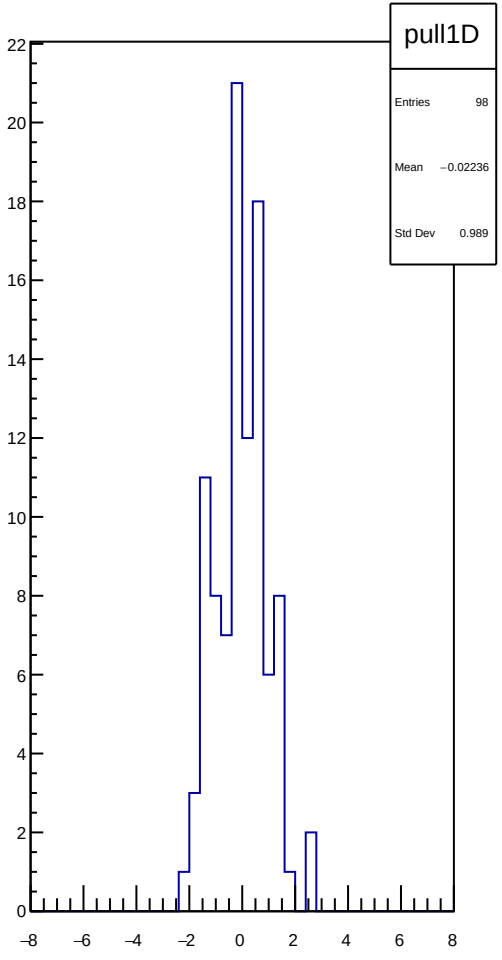

diff_bpmtargetsumX_rms vs run
χ² / ndf 3844 / 97
p0 3.372e+04 ± 24.21
40000
38000
36000
34000
32000
30000

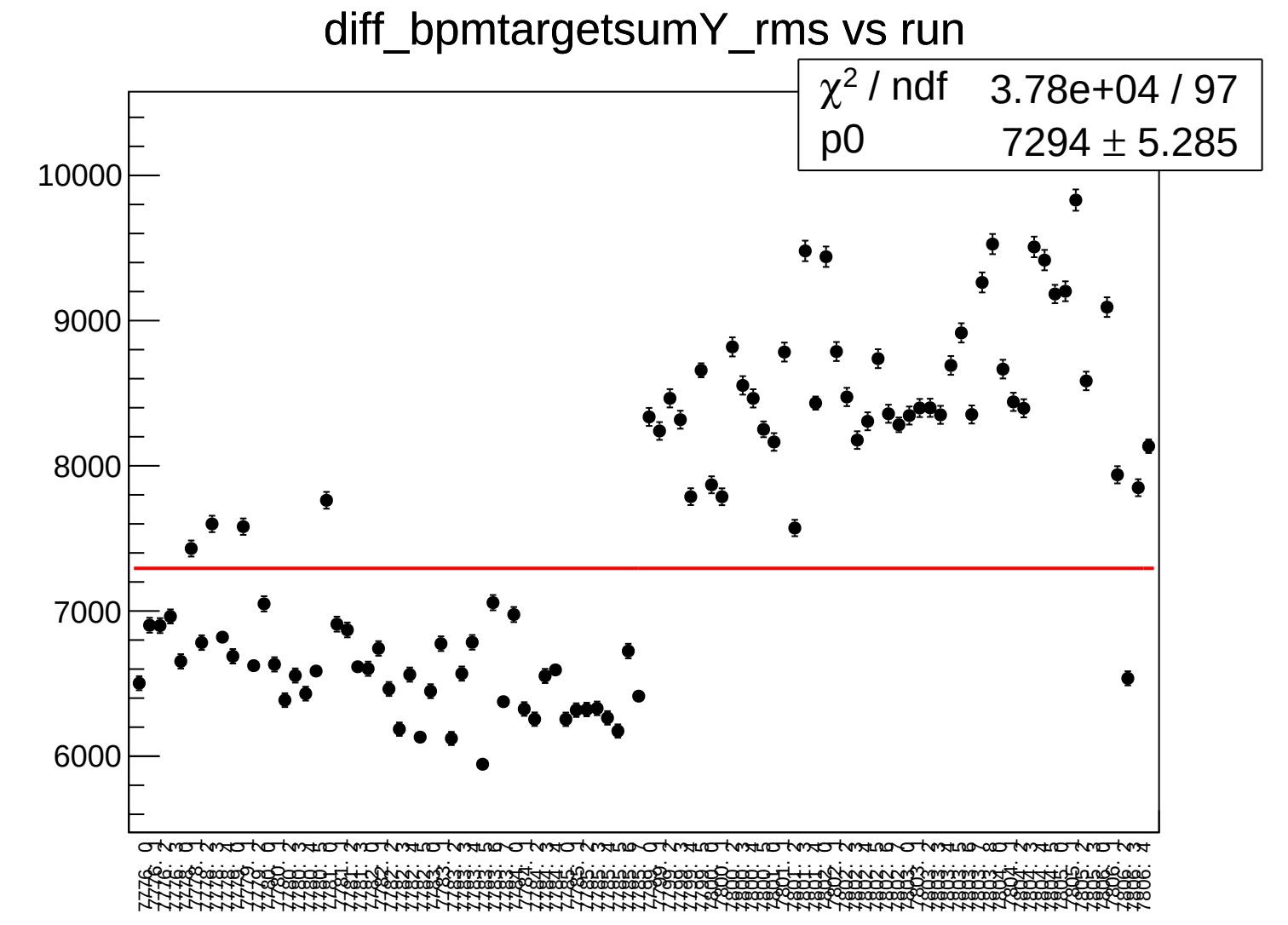

diff_bpmtargetdiffX_mean vs run
χ² / ndf 77.12 / 97
p0 −0.4396 ± 2.05
pull
Entries 98
Mean −703.8
Std Dev 0

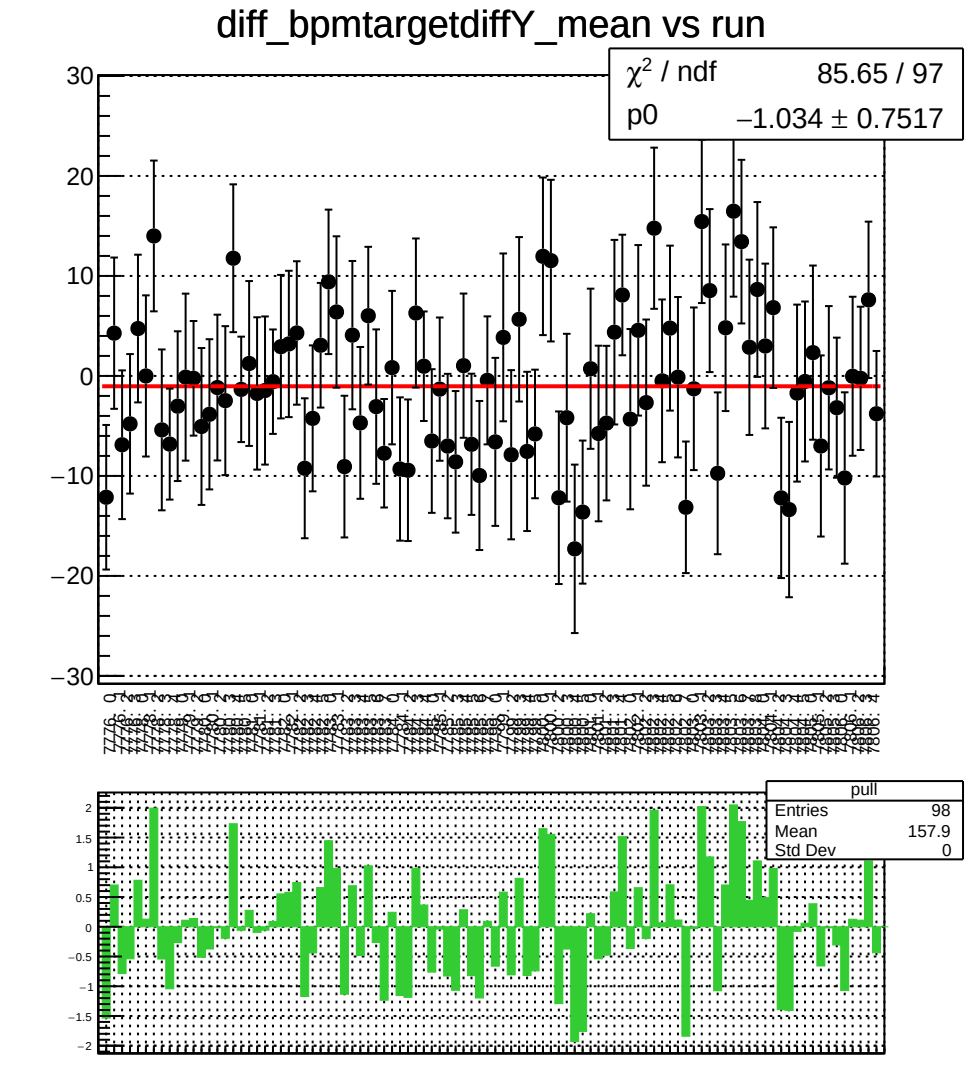

pull1D
Entries 98
Mean −0.005055
Std Dev 0.8871

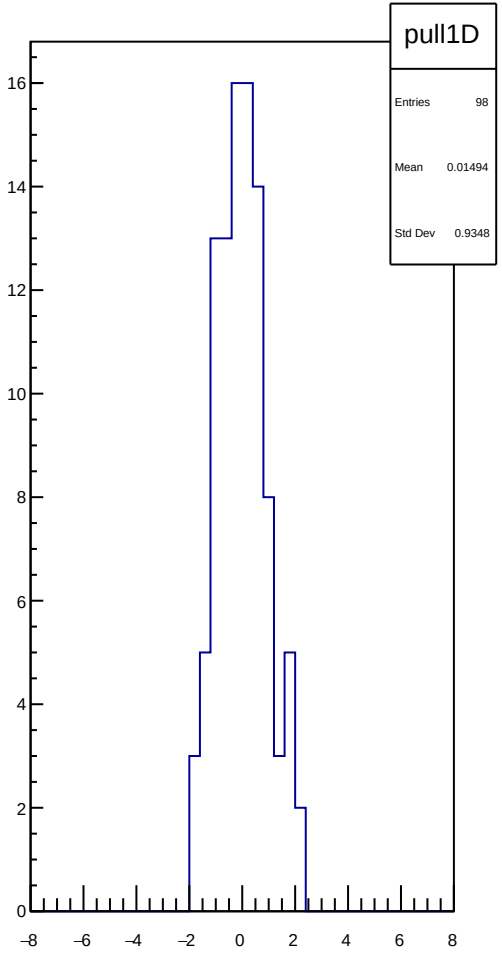

diff_bpmtargetdiffX_rms vs run
χ² / ndf 6790 / 97
p0 2017 ± 1.45
2400
2300
2200
2100
2000
1900
1800
1700
1600

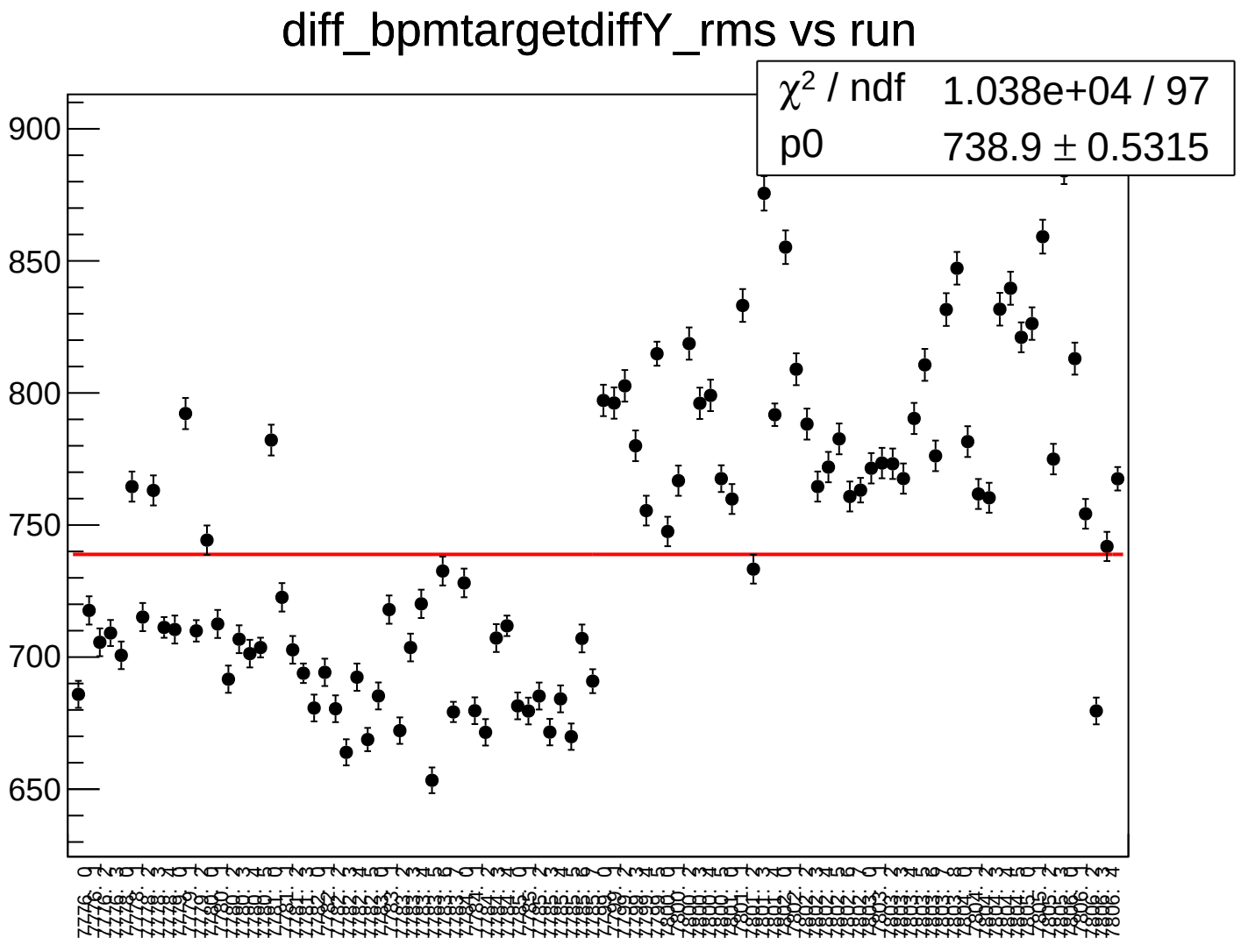

diff_bpmtargetsumY_mean vs run
χ² / ndf 95.9 / 97
p0 2.635 ± 7.474
pull
Entries 98
Mean 128
Std Dev 0

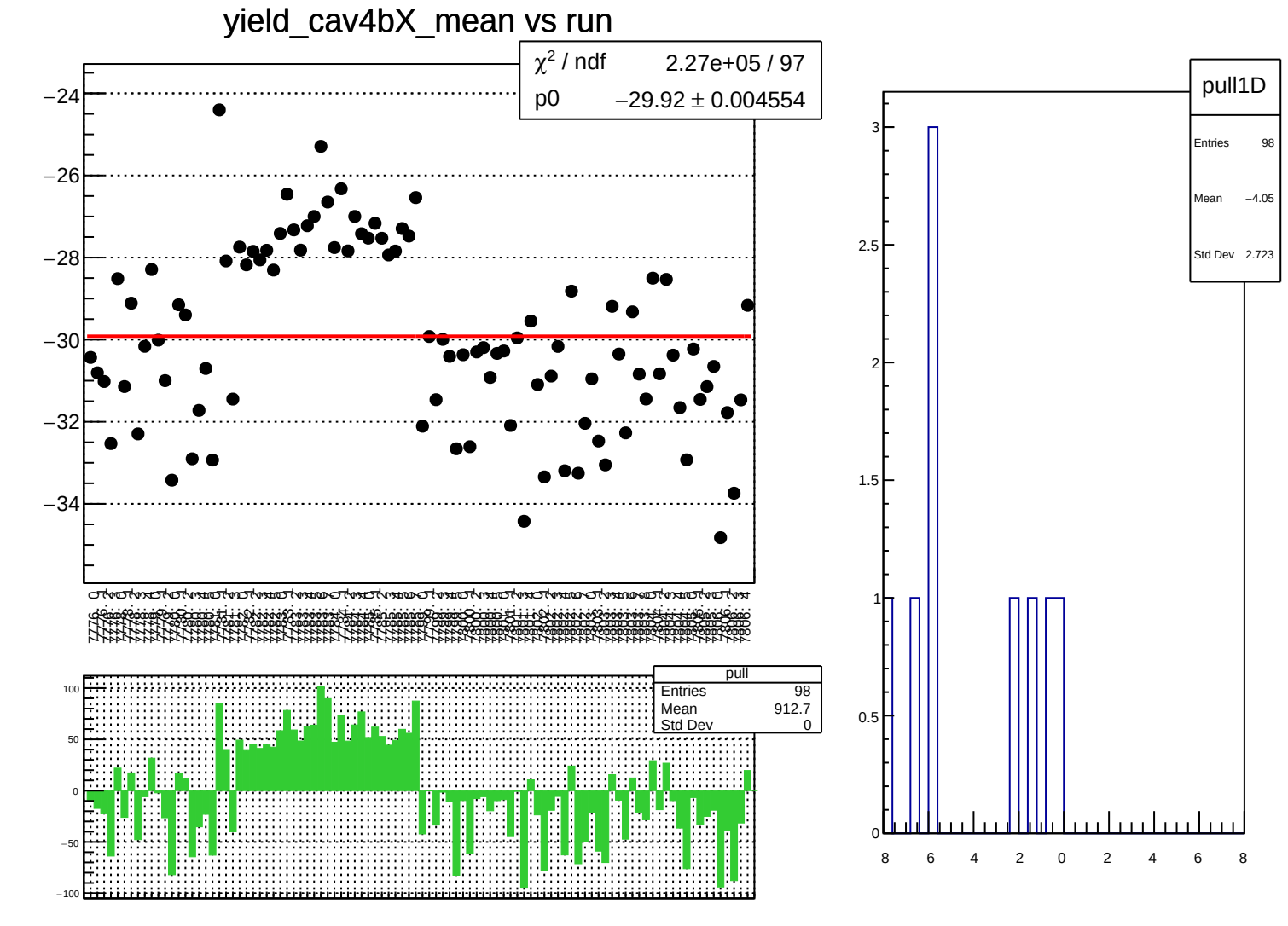

pull1D
Entries 98
Mean −0.02236
Std Dev 0.989

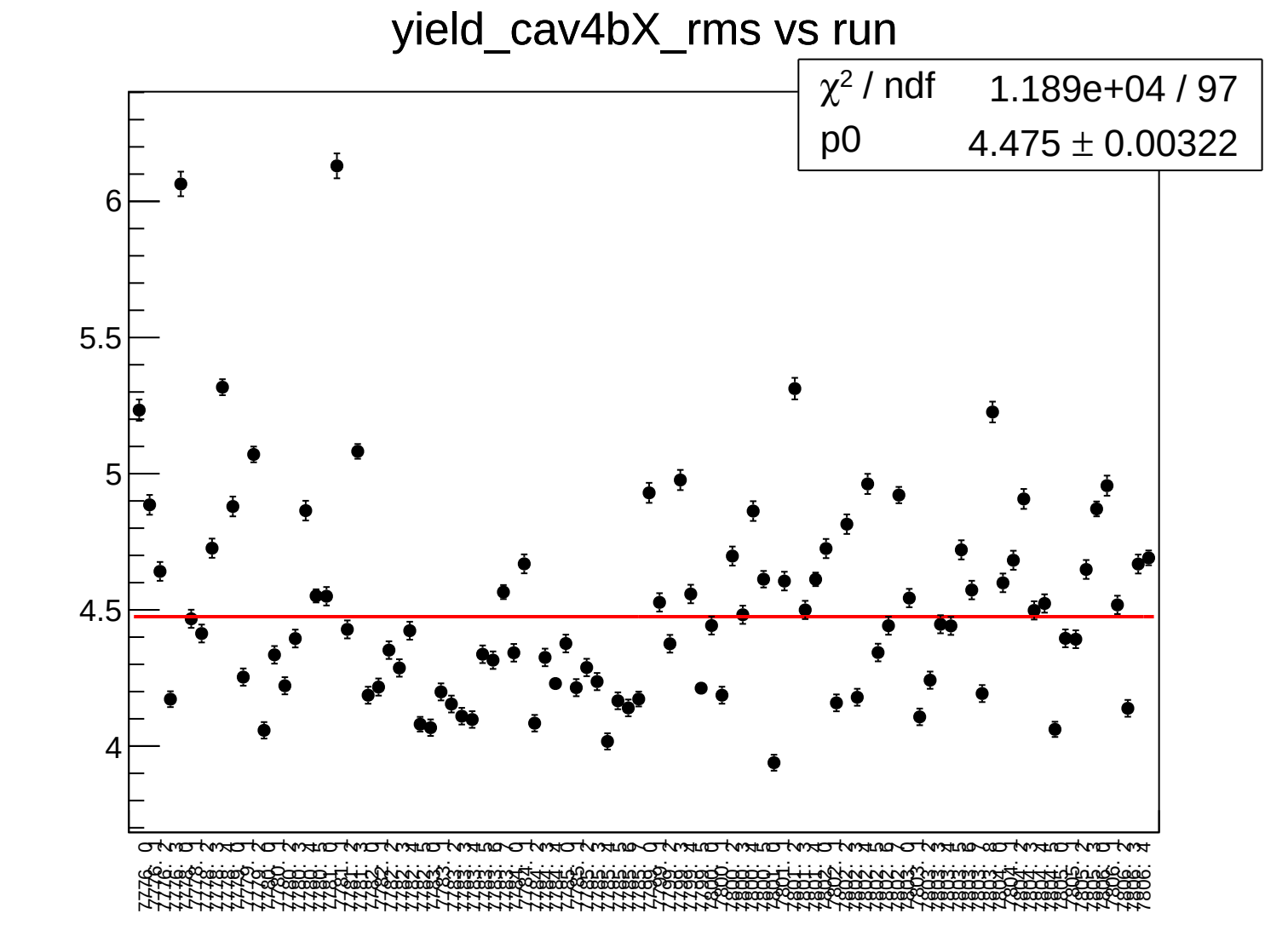

diff_bpmtargetsumY_rms vs run
χ² / ndf 3.78e+04 / 97
p0 7294 ± 5.285
10000
9000
8000
7000
6000

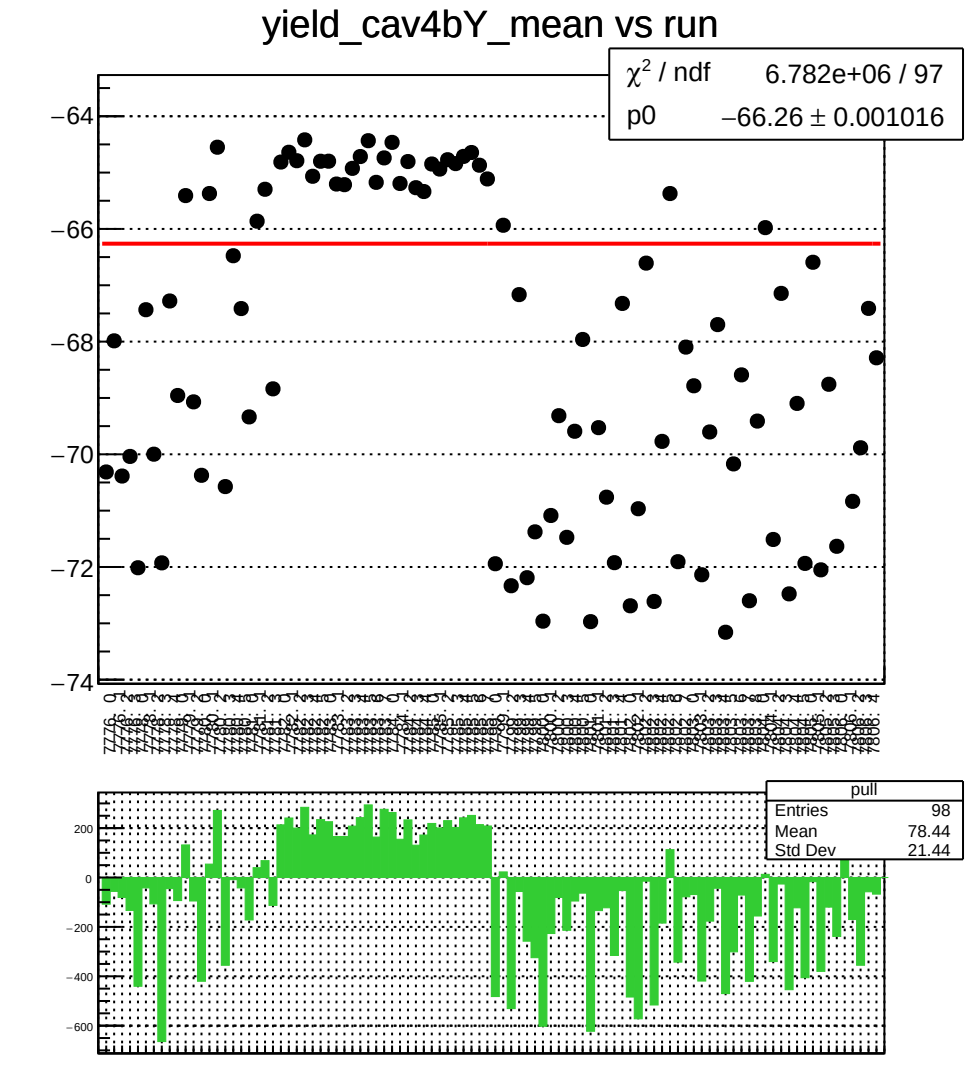

diff_bpmtargetdiffY_mean vs run
χ² / ndf 85.65 / 97
p0 −1.034 ± 0.7517
pull
Entries 98
Mean 157.9
Std Dev 0

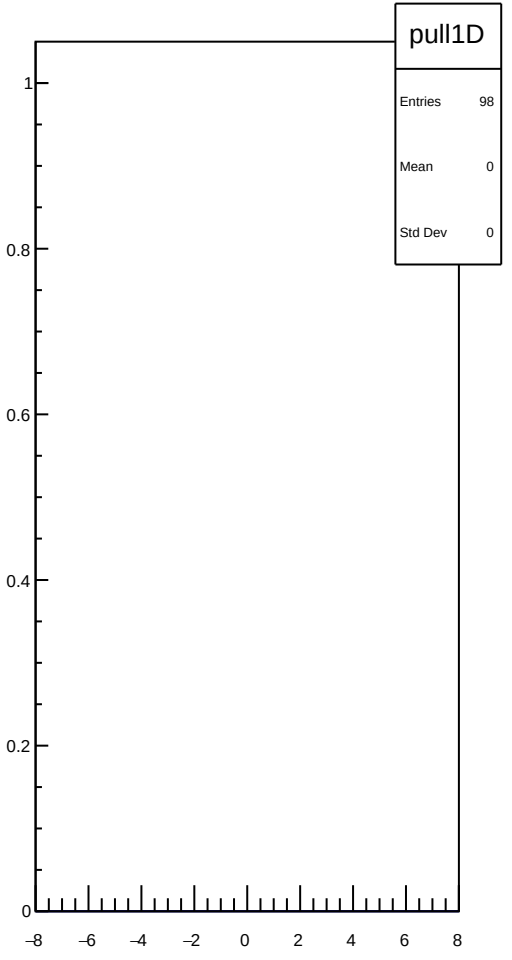

pull1D
Entries 98
Mean 0.01494
Std Dev 0.9348

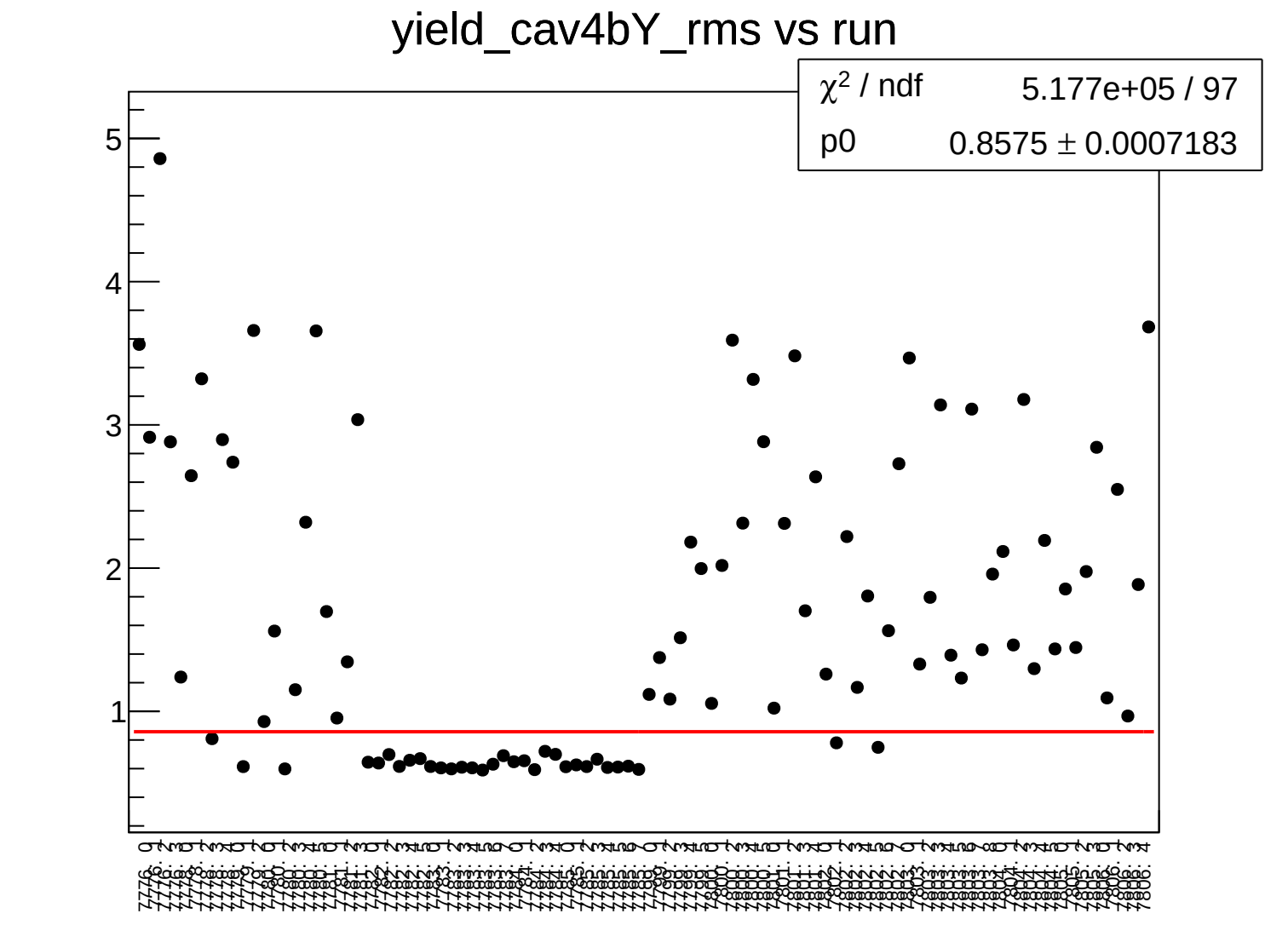

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.038e+04 / 97
p0 738.9 ± 0.5315
900
850
800
750
700
650

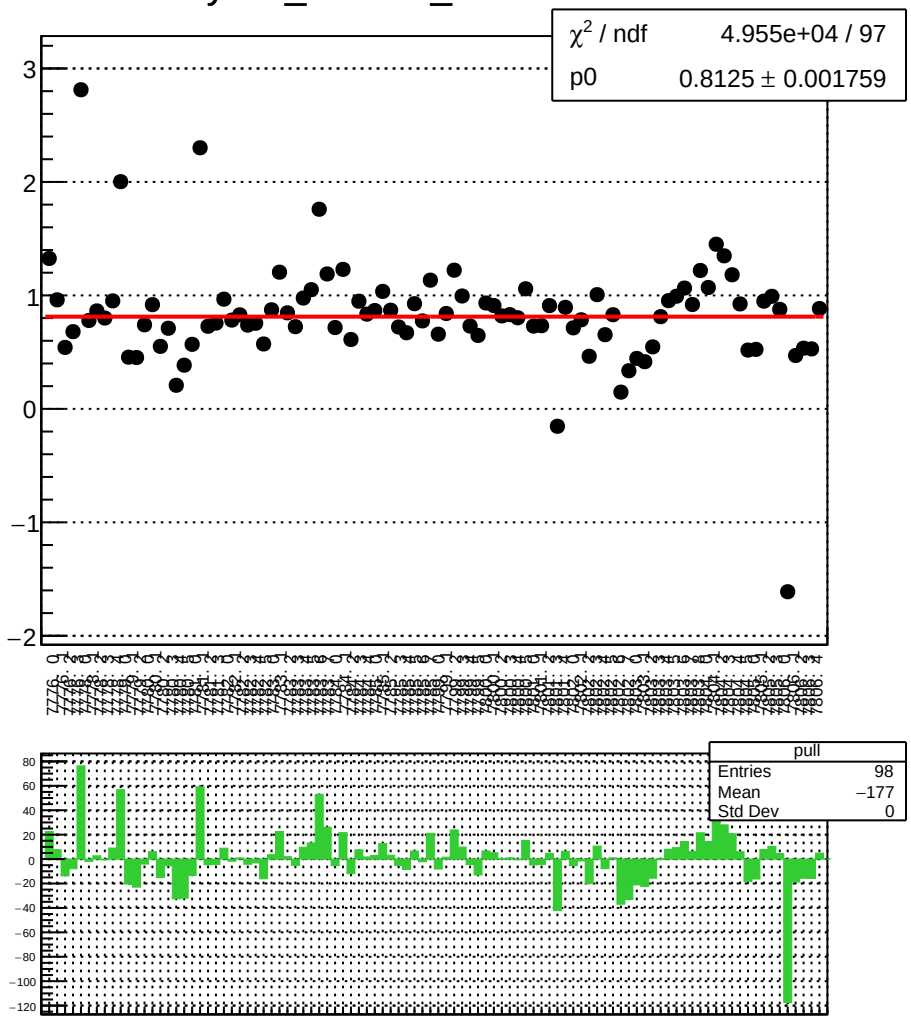

yield_cav4bX_mean vs run
χ² / ndf 2.27e+05 / 97
p0 −29.92 ± 0.004554
−24
−26
−28
−30
−32
−34
pull
Entries 98
Mean 912.7
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 98
Mean −4.05
Std Dev 2.723
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

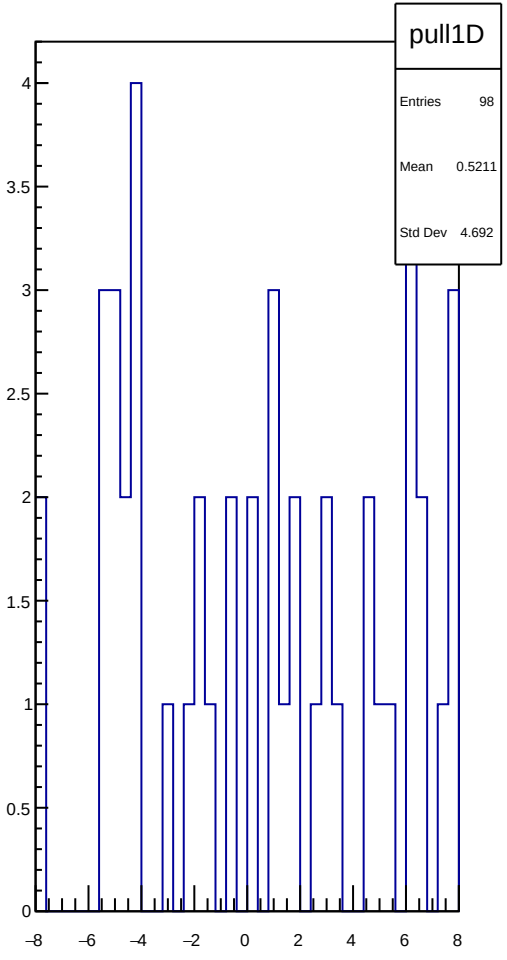

yield_cav4bX_rms vs run
χ² / ndf 1.189e+04 / 97
p0 4.475 ± 0.00322
6
5.5
5
4.5
4

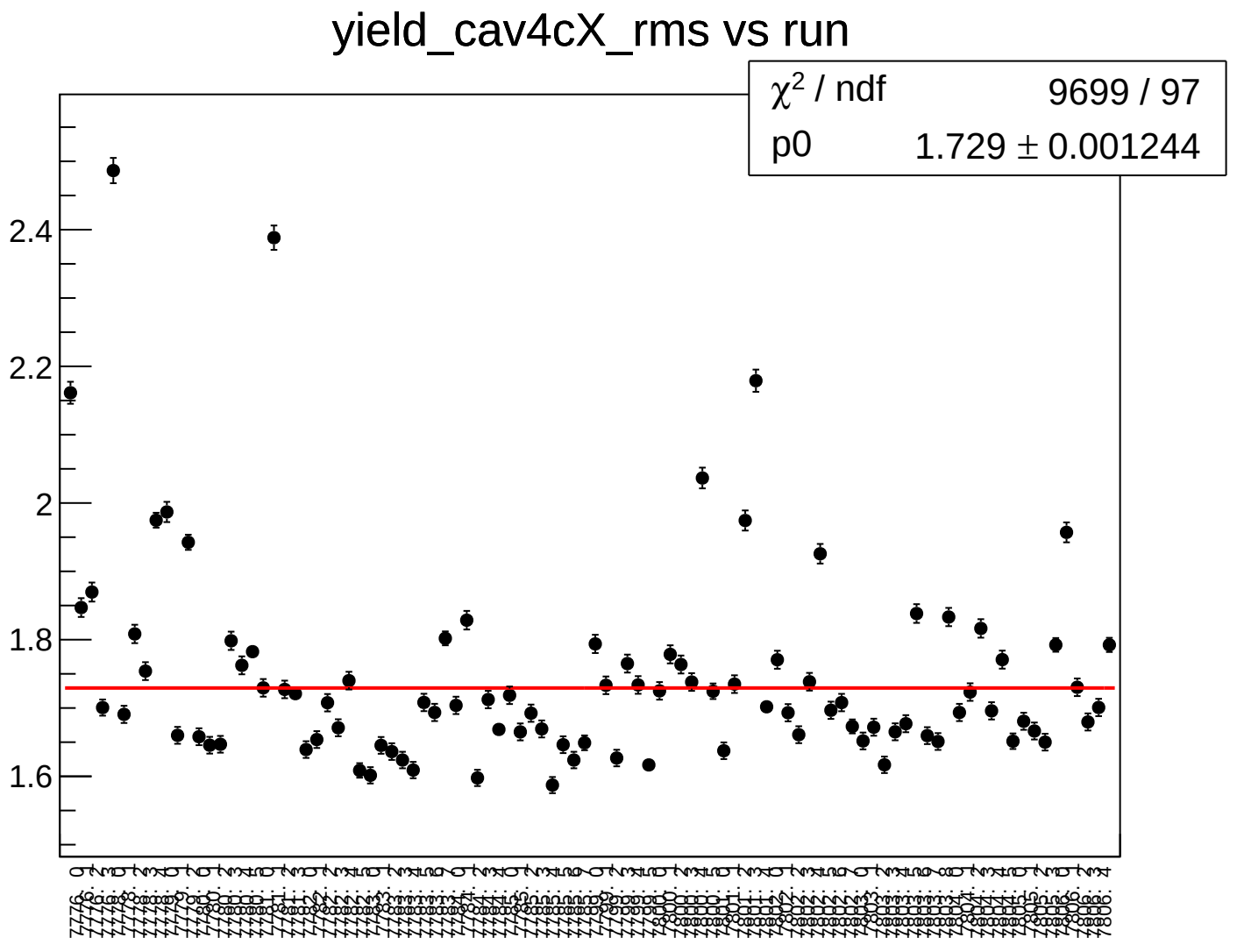

yield_cav4bY_mean vs run
χ² / ndf 6.782e+06 / 97
p0 −66.26 ± 0.001016
−64
−66
−68
−70
−72
−74
pull
Entries 98
Mean 78.44
Std Dev 21.44
200
0
−200
−400
−600

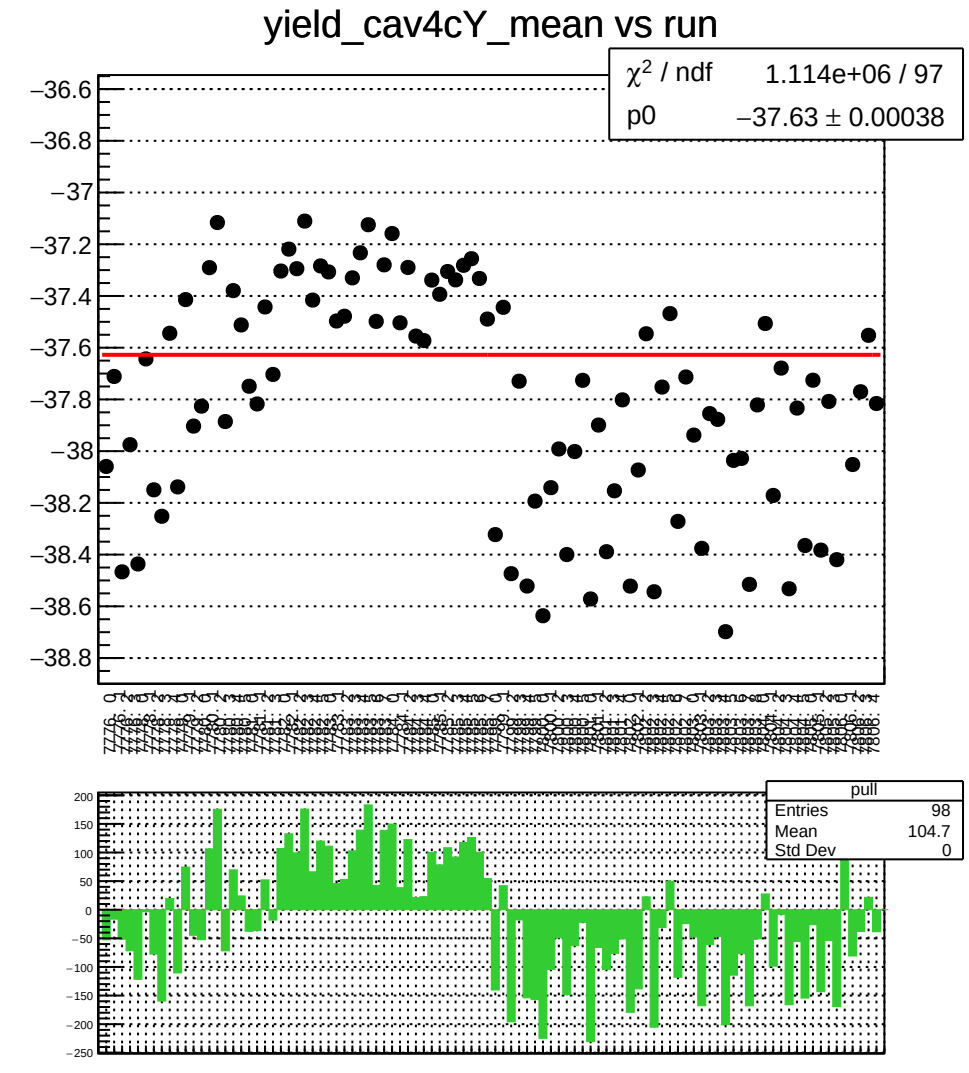

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

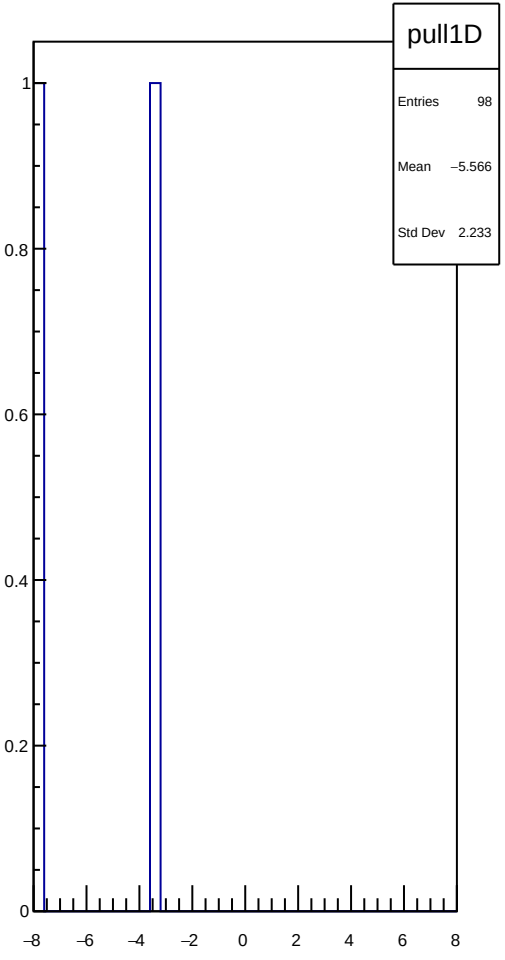

yield_cav4bY_rms vs run
χ^2 / ndf 5.177e+05 / 97
p0 0.8575 ± 0.0007183
5
4
3
2
1

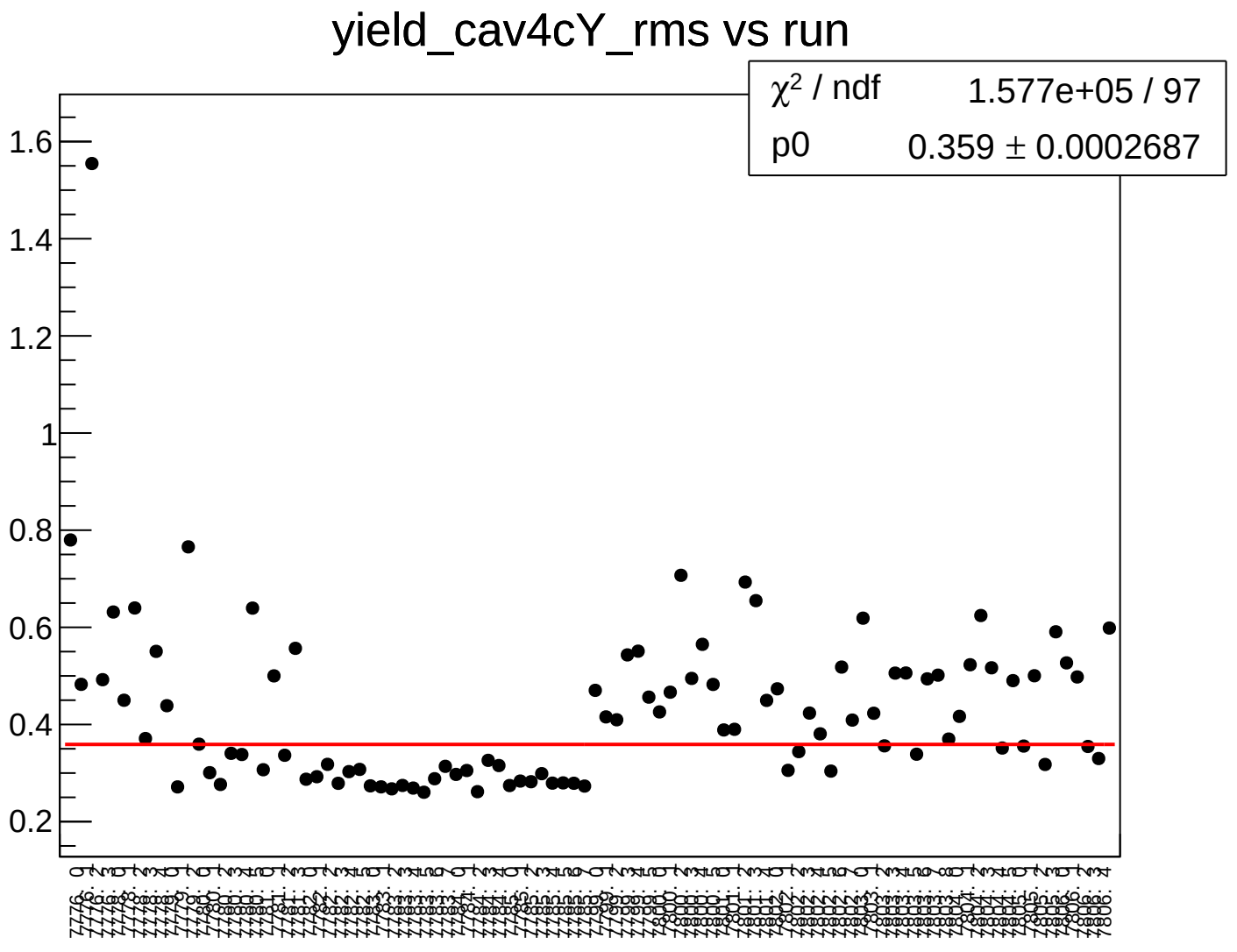

yield_cav4cX_mean vs run
χ² / ndf 4.955e+04 / 97
p0 0.8125 ± 0.001759
pull
Entries 98
Mean −177
Std Dev 0

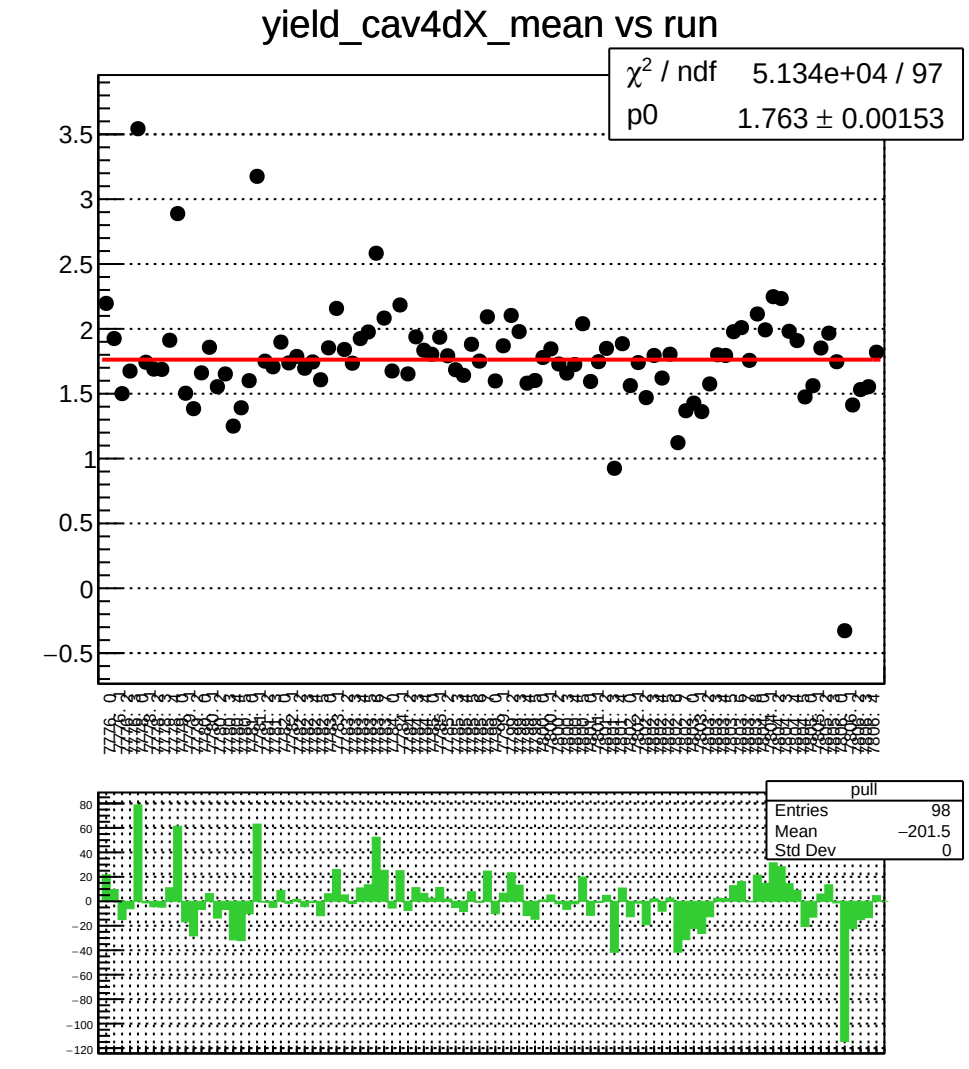

pull1D
Entries 98
Mean 0.5211
Std Dev 4.692

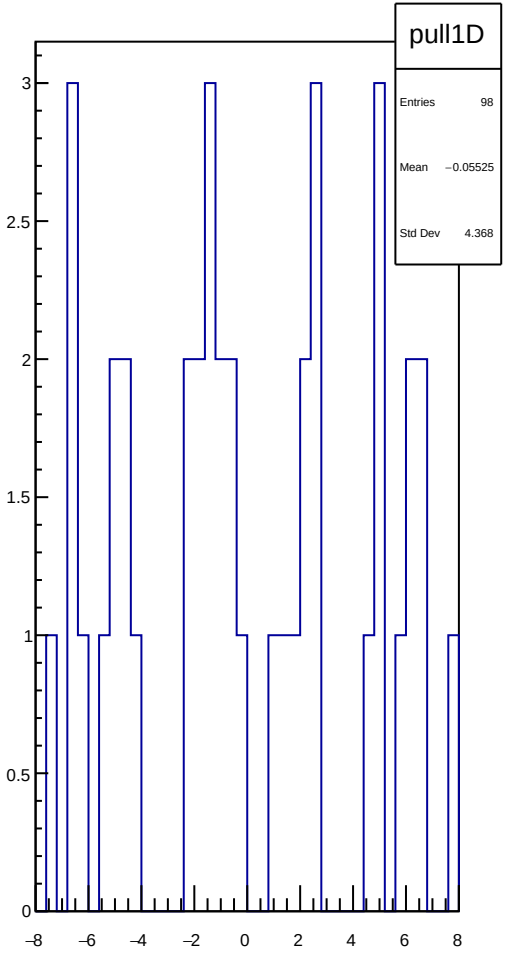

yield_cav4cX_rms vs run
χ^2 / ndf 9699 / 97
p0 1.729 ± 0.001244
2.4
2.2
2
1.8
1.6

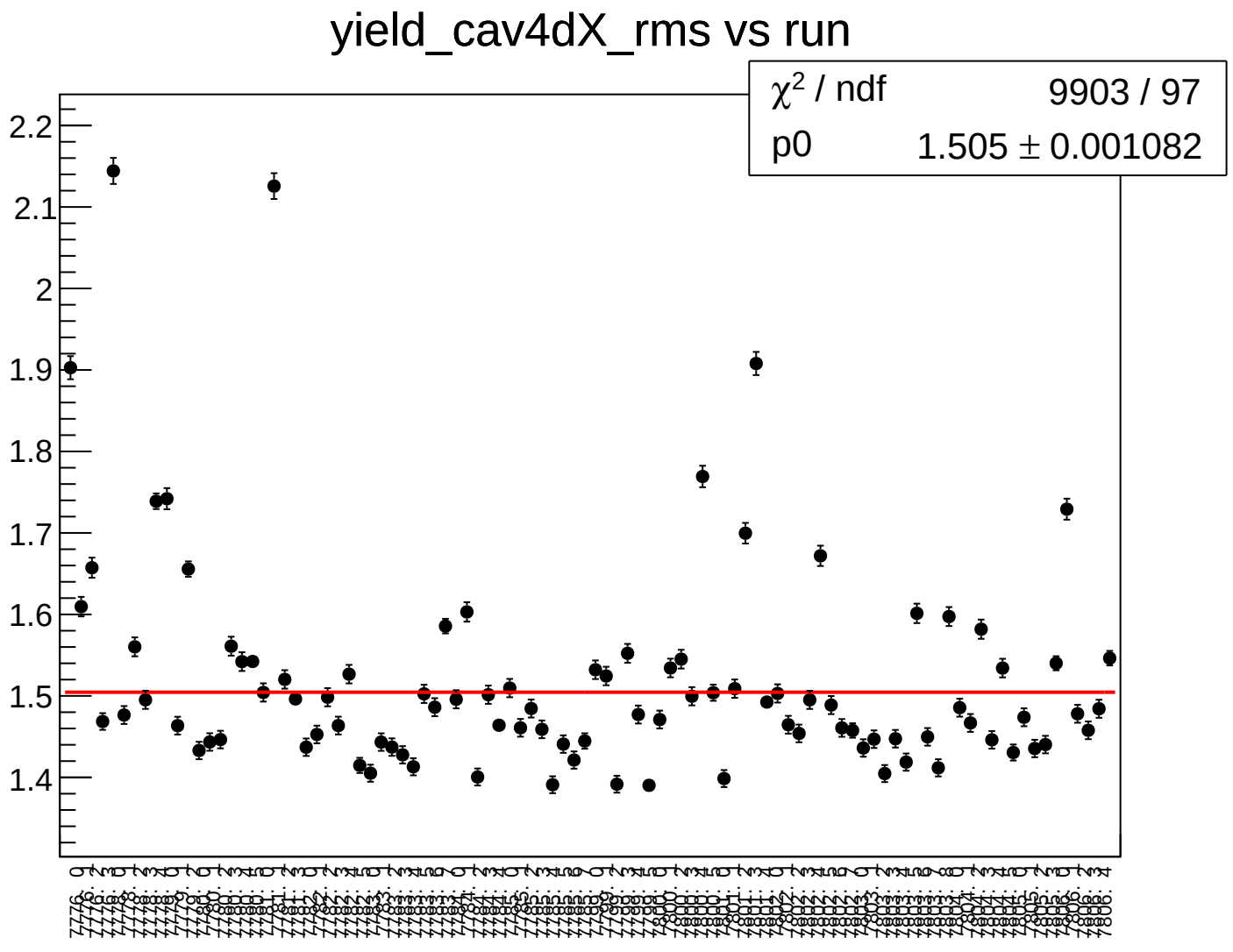

yield_cav4cY_mean vs run
χ² / ndf 1.114e+06 / 97
p0 −37.63 ± 0.00038
−36.6
−36.8
−37
−37.2
−37.4
−37.6
−37.8
−38
−38.2
−38.4
−38.6
−38.8
pull
Entries 98
Mean 104.7
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

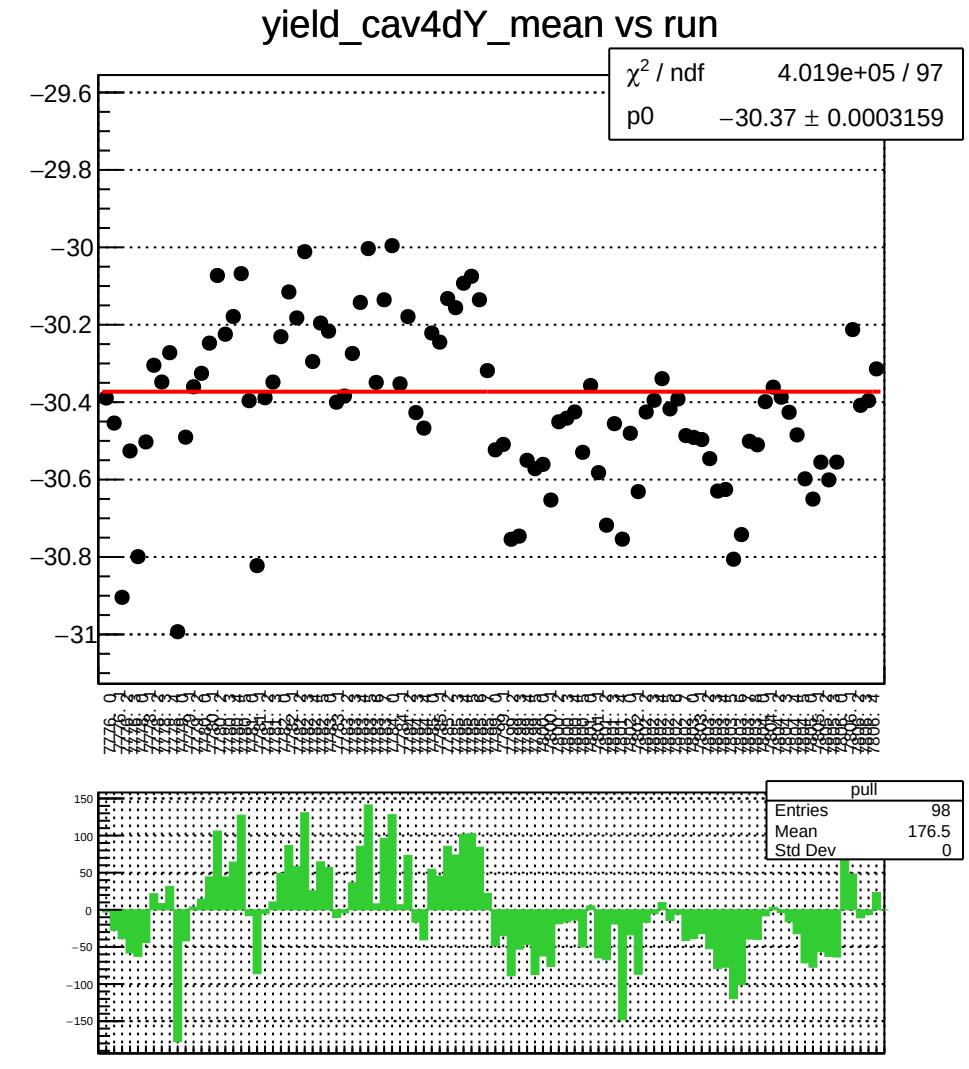

pull1D
Entries 98
Mean −5.566
Std Dev 2.233
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

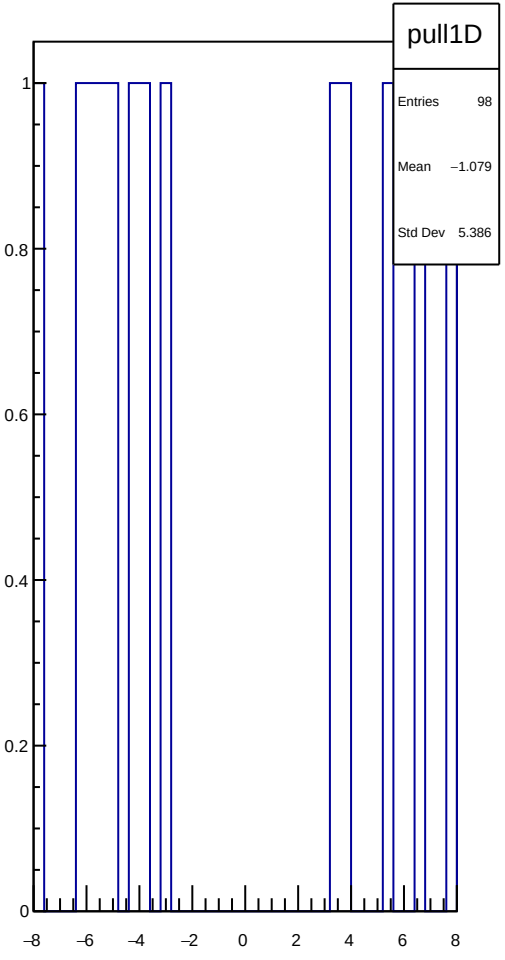

yield_cav4cY_rms vs run
χ² / ndf 1.577e+05 / 97
p0 0.359 ± 0.0002687
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

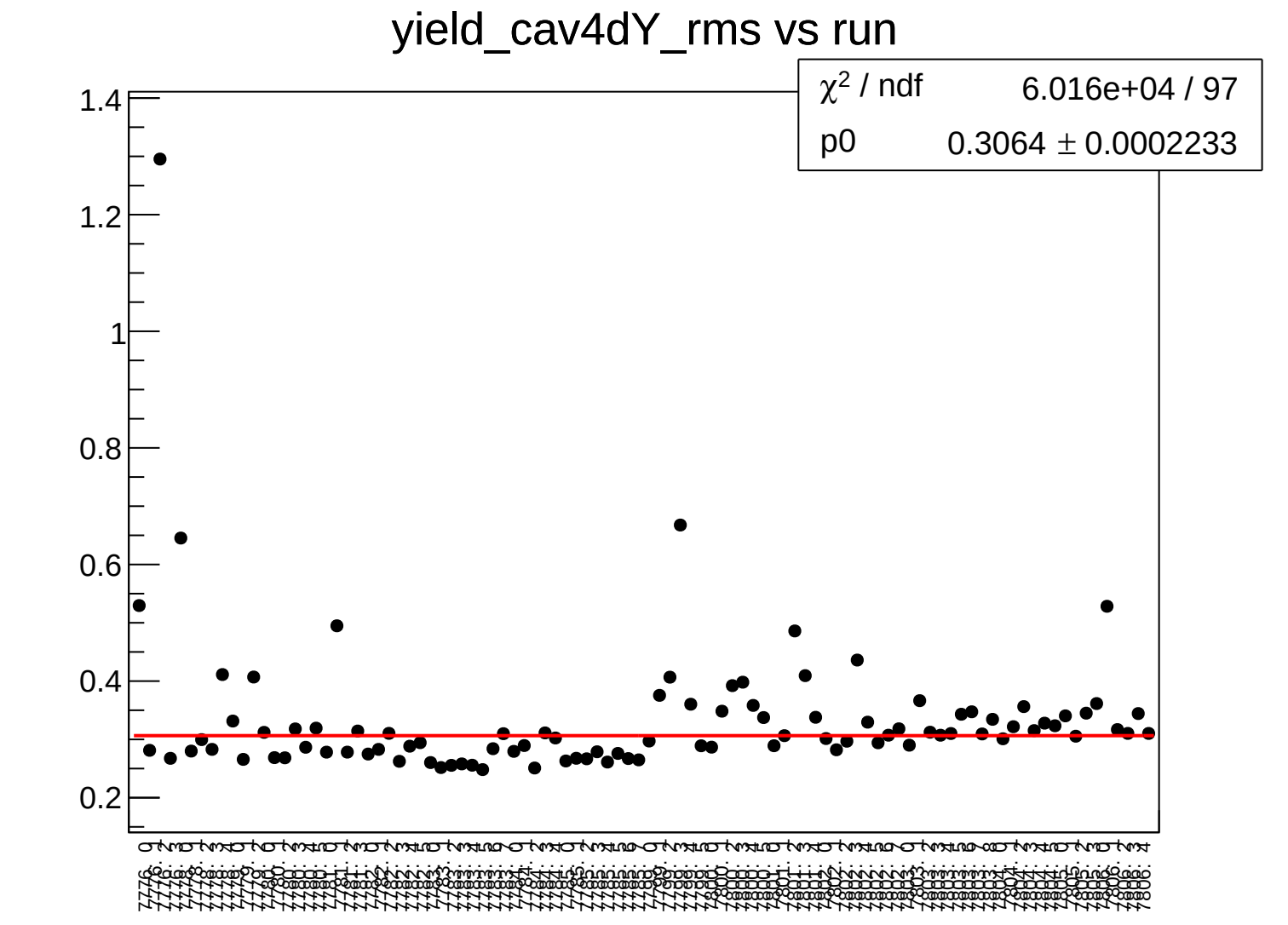

yield_cav4dX_mean vs run
χ² / ndf 5.134e+04 / 97
p0 1.763 ± 0.00153
pull
Entries 98
Mean −201.5
Std Dev 0

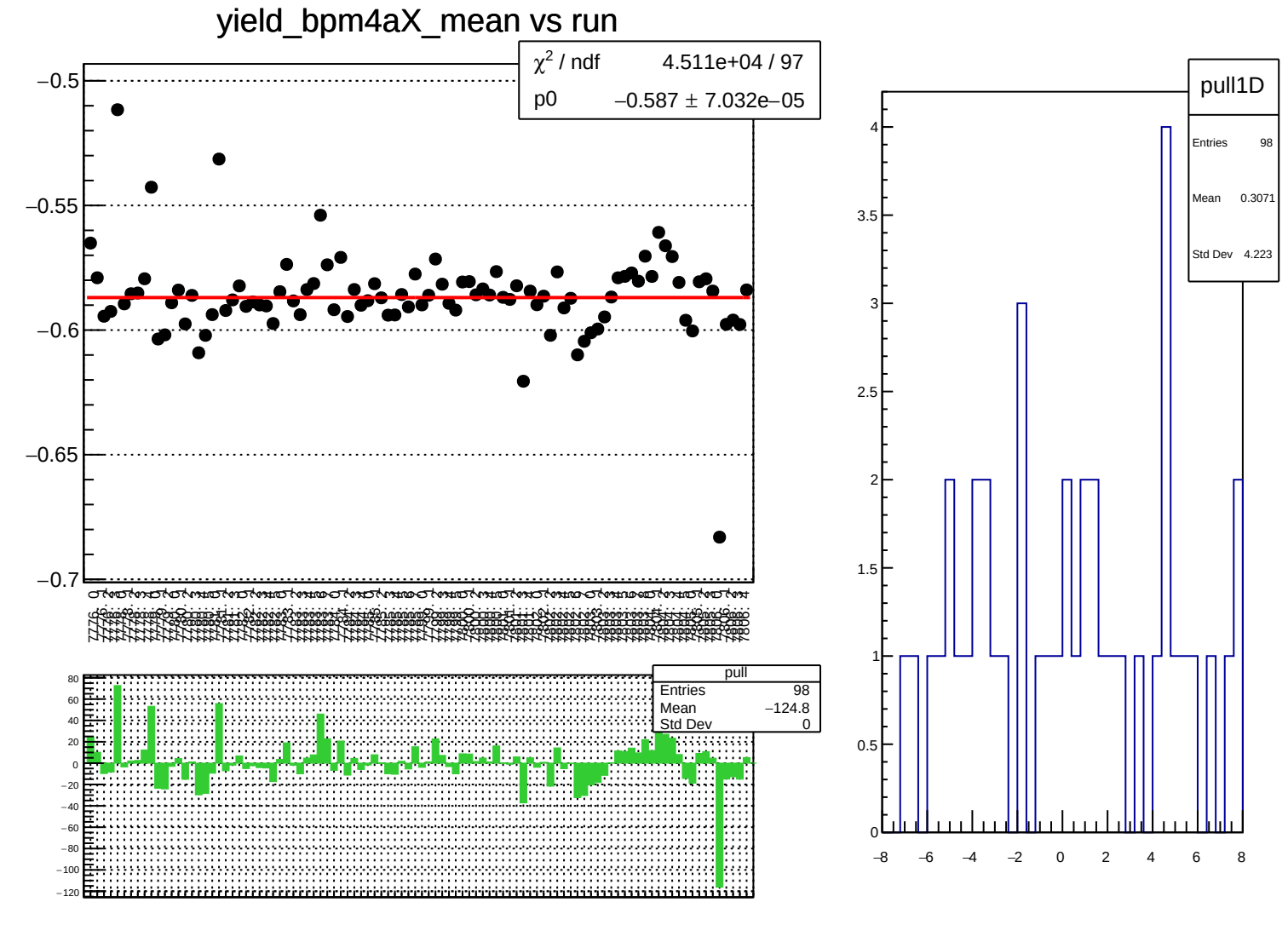

pull1D
Entries 98
Mean −0.05525
Std Dev 4.368

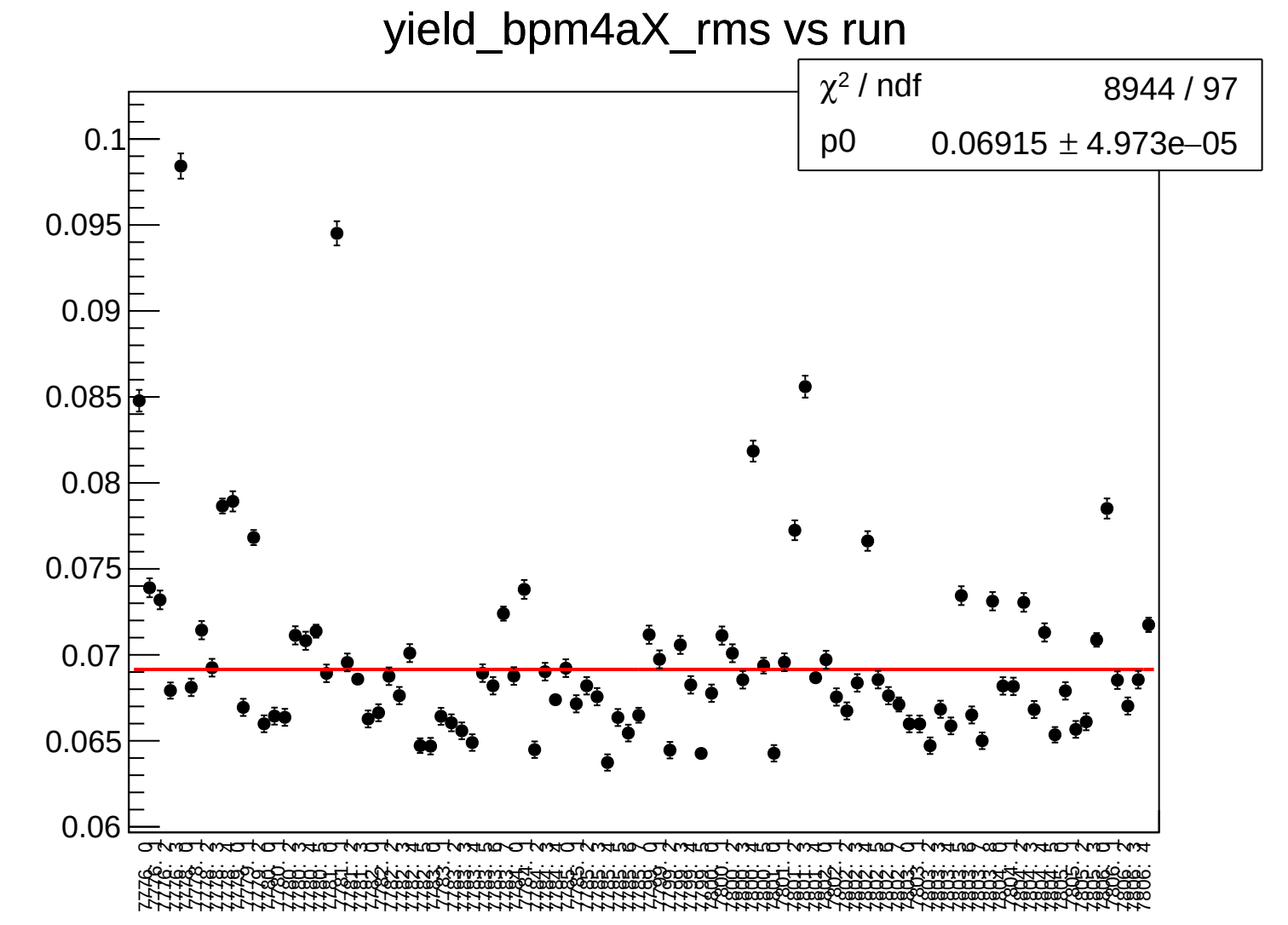

yield_cav4dX_rms vs run
χ^2 / ndf 9903 / 97
p0 1.505 ± 0.001082
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4

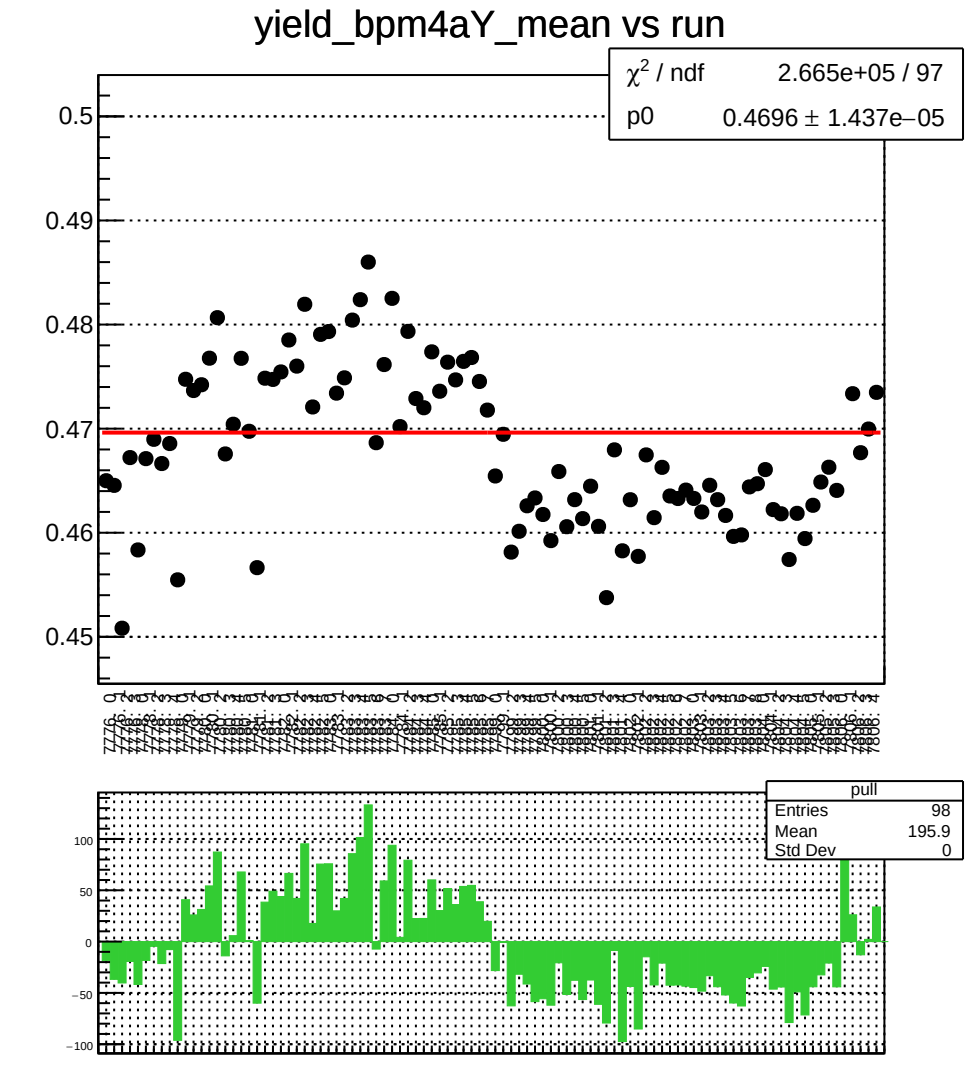

yield_cav4dY_mean vs run
χ² / ndf 4.019e+05 / 97
p0 −30.37 ± 0.0003159
−29.6
−29.8
−30
−30.2
−30.4
−30.6
−30.8
−31
pull
Entries 98
Mean 176.5
Std Dev 0
150
100
50
0
−50
−100
−150

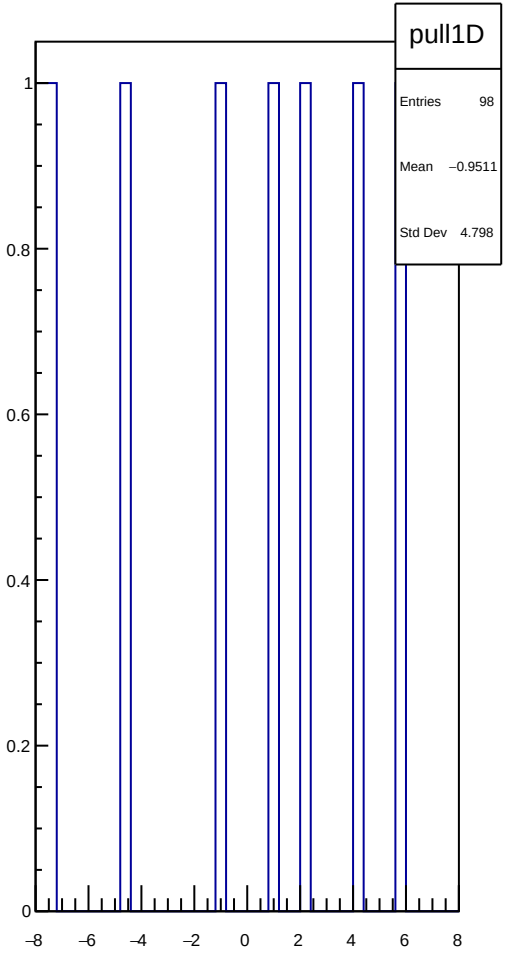

pull1D
Entries 98
Mean −1.079
Std Dev 5.386
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

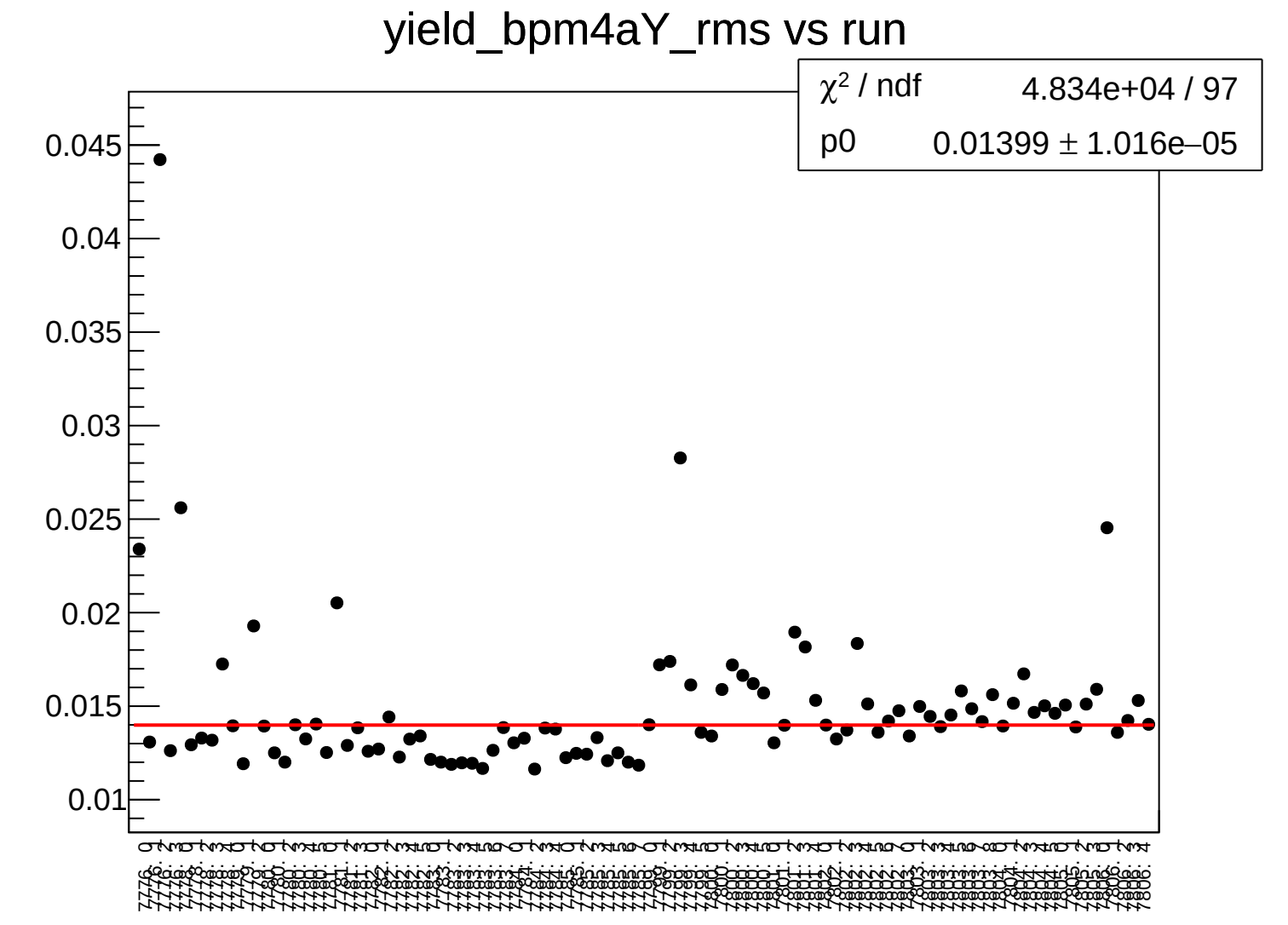

yield_cav4dY_rms vs run
χ² / ndf 6.016e+04 / 97
p0 0.3064 ± 0.0002233
1.4
1.2
1
0.8
0.6
0.4
0.2

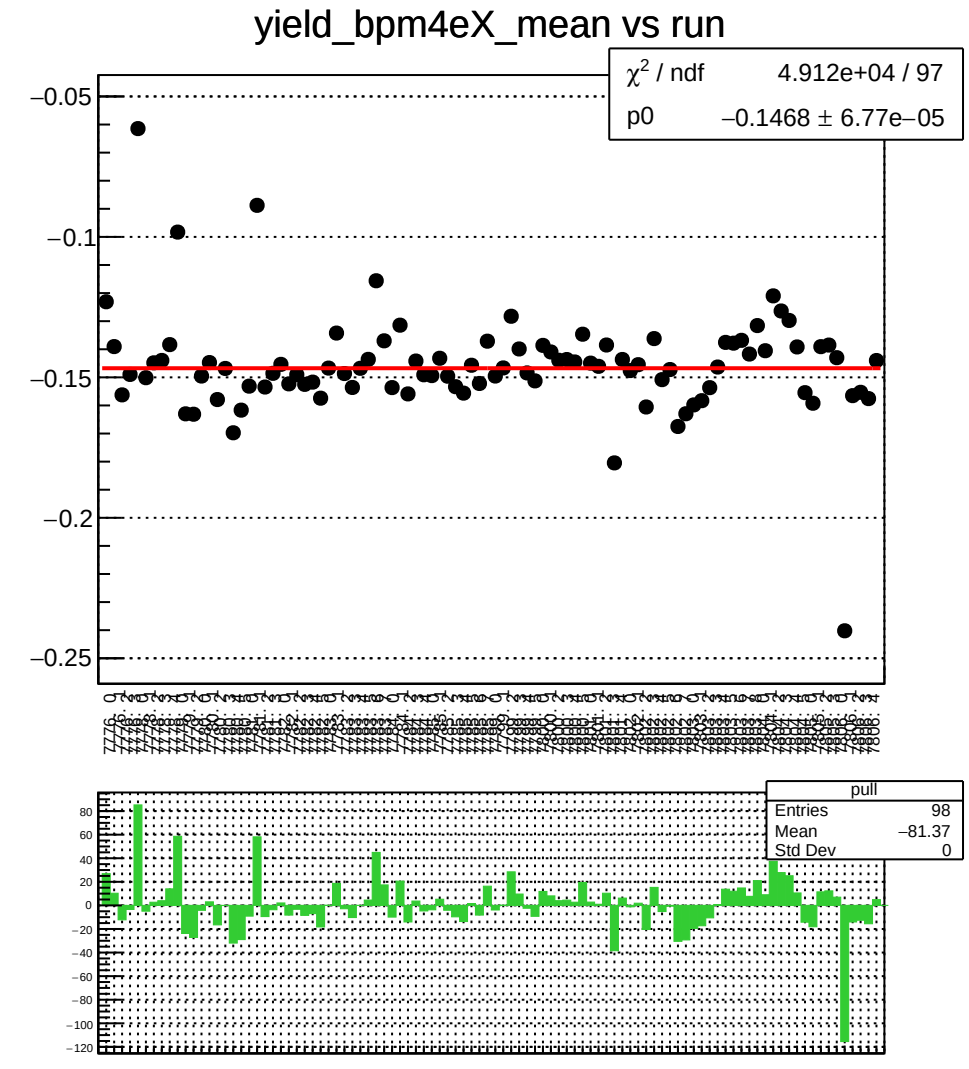

yield_bpm4aX_mean vs run
χ² / ndf 4.511e+04 / 97
p0 −0.587 ± 7.032e−05
−0.5
−0.55
−0.6
−0.65
−0.7
pull
Entries 98
Mean −124.8
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 98
Mean 0.3071
Std Dev 4.223
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

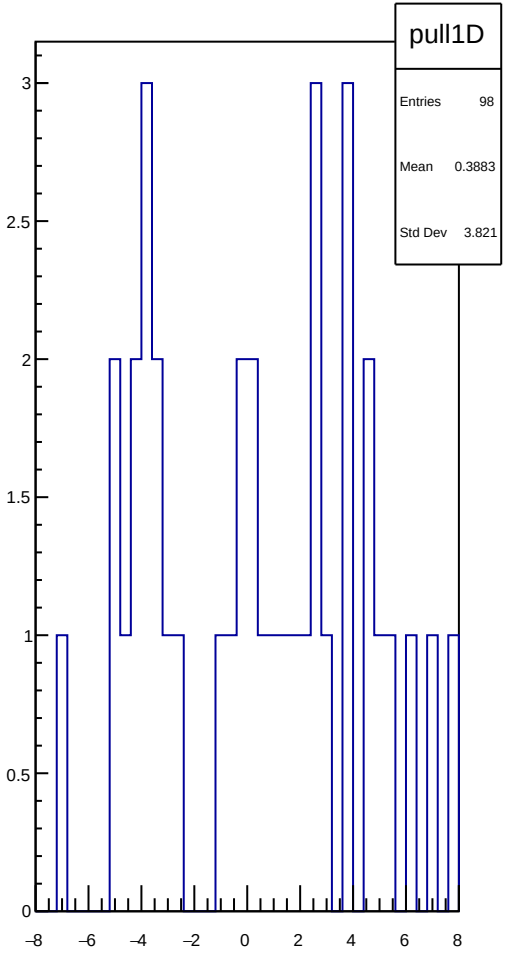

yield_bpm4aX_rms vs run
χ² / ndf 8944 / 97
p0 0.06915 ± 4.973e–05
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06

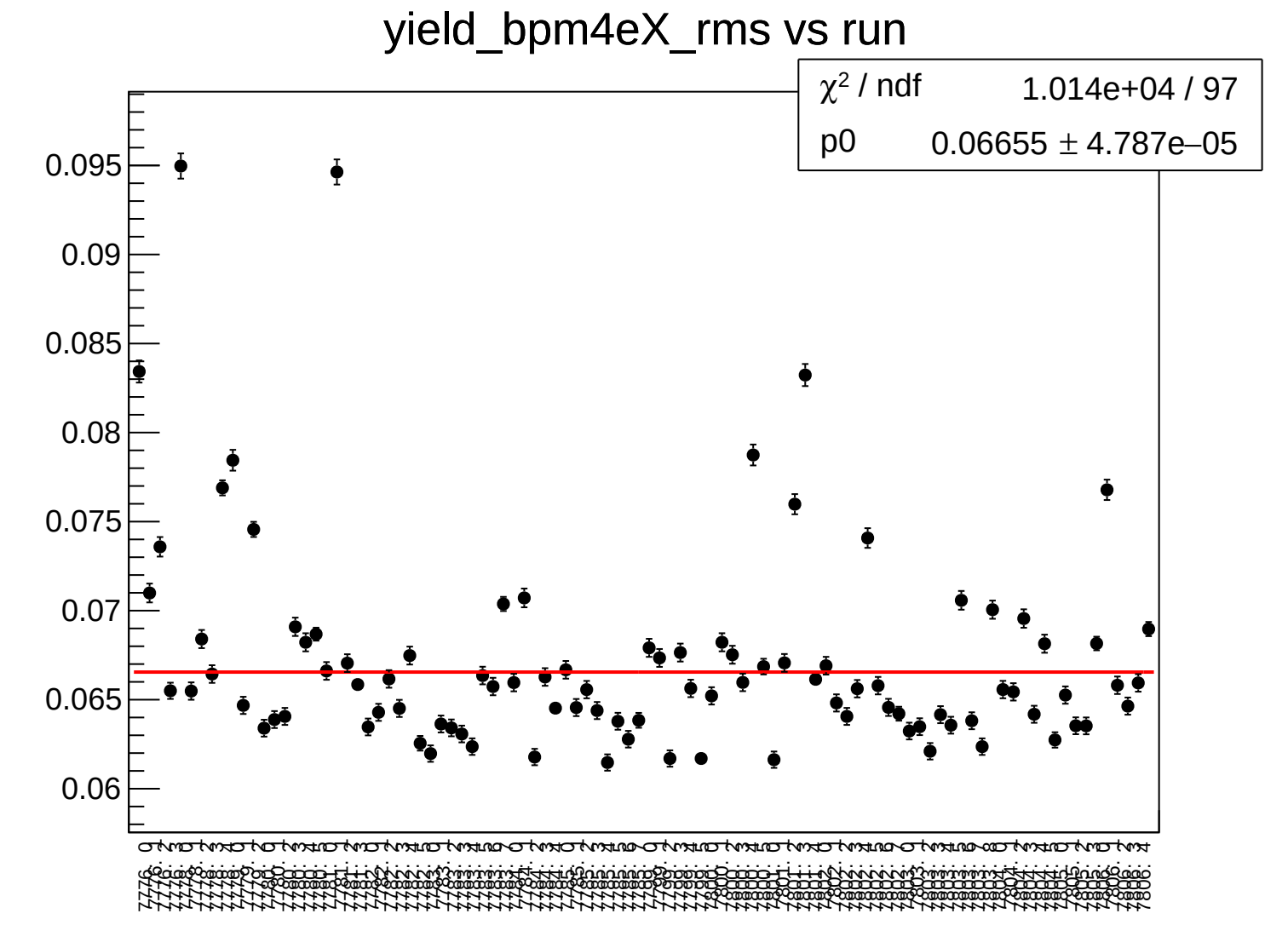

yield_bpm4aY_mean vs run
χ² / ndf 2.665e+05 / 97
p0 0.4696 ± 1.437e−05
0.5
0.49
0.48
0.47
0.46
0.45
pull
Entries 98
Mean 195.9
Std Dev 0
100
50
0
−50
−100

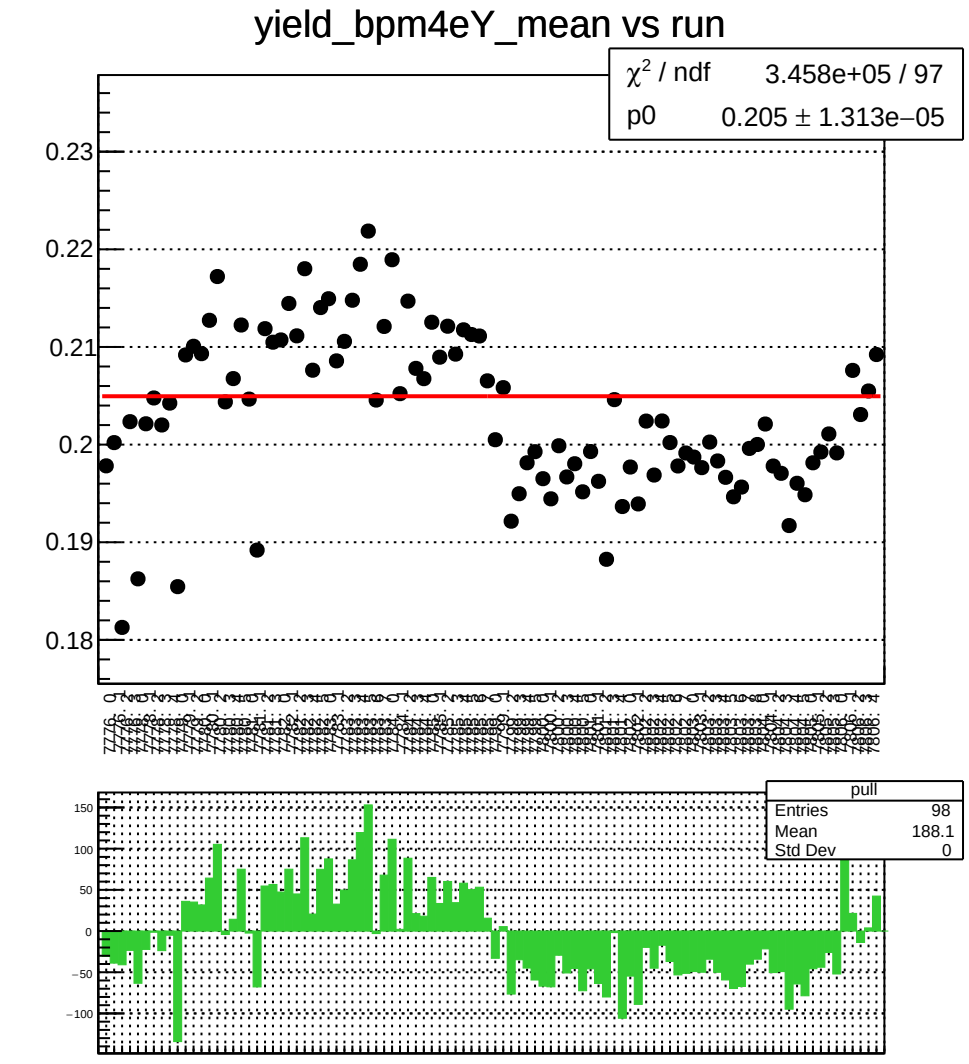

pull1D
Entries 98
Mean −0.9511
Std Dev 4.798
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

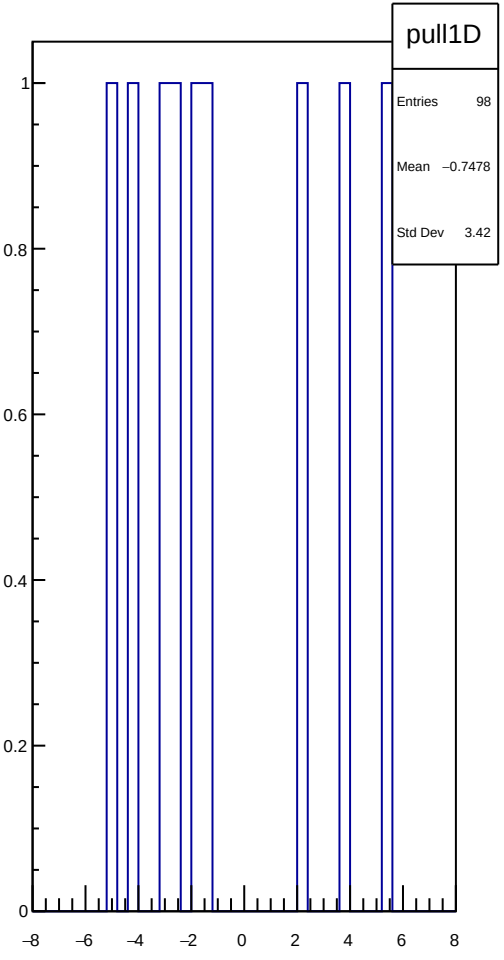

yield_bpm4aY_rms vs run
χ² / ndf 4.834e+04 / 97
p0 0.01399 ± 1.016e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

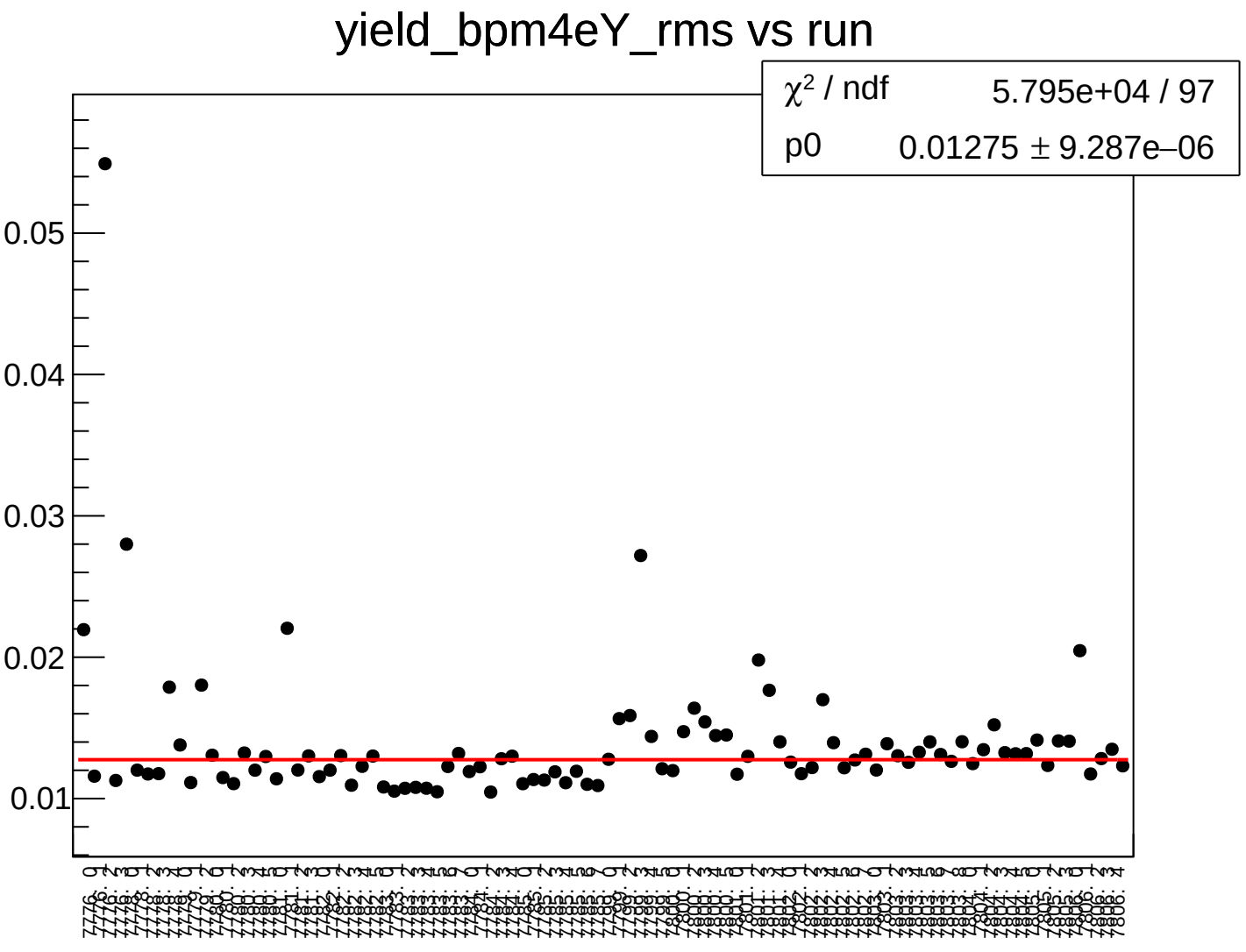

yield_bpm4eX_mean vs run
χ² / ndf 4.912e+04 / 97
p0 −0.1468 ± 6.77e−05
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 98
Mean −81.37
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

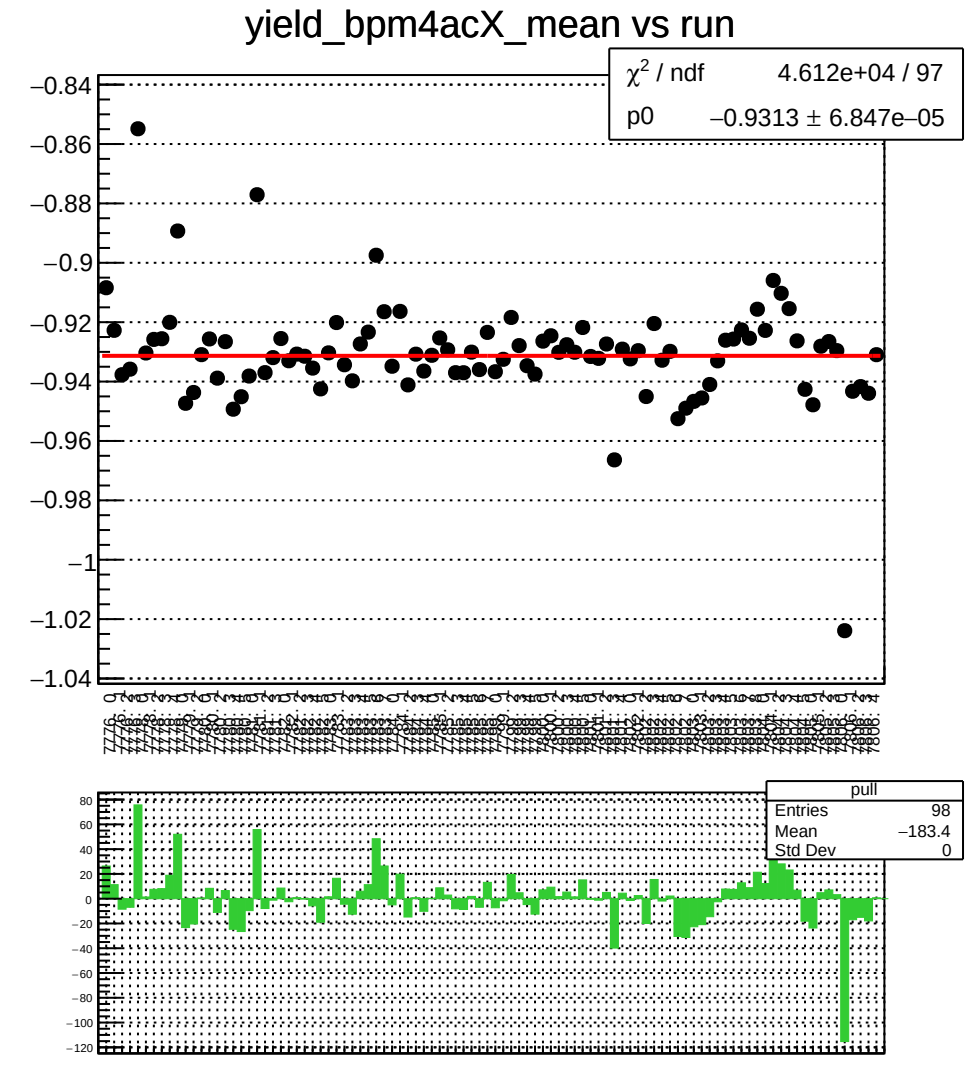

pull1D
Entries 98
Mean 0.3883
Std Dev 3.821
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

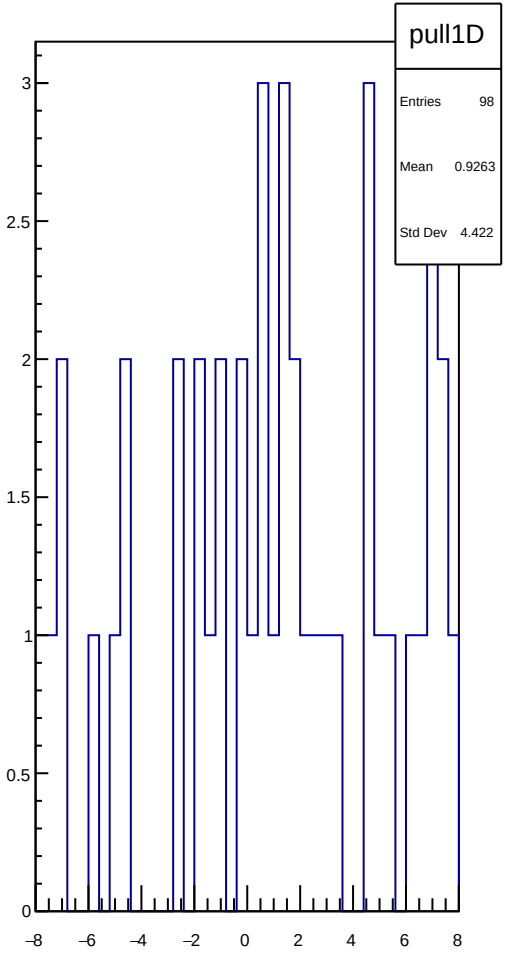

yield_bpm4eX_rms vs run
χ² / ndf 1.014e+04 / 97
p0 0.06655 ± 4.787e–05
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06

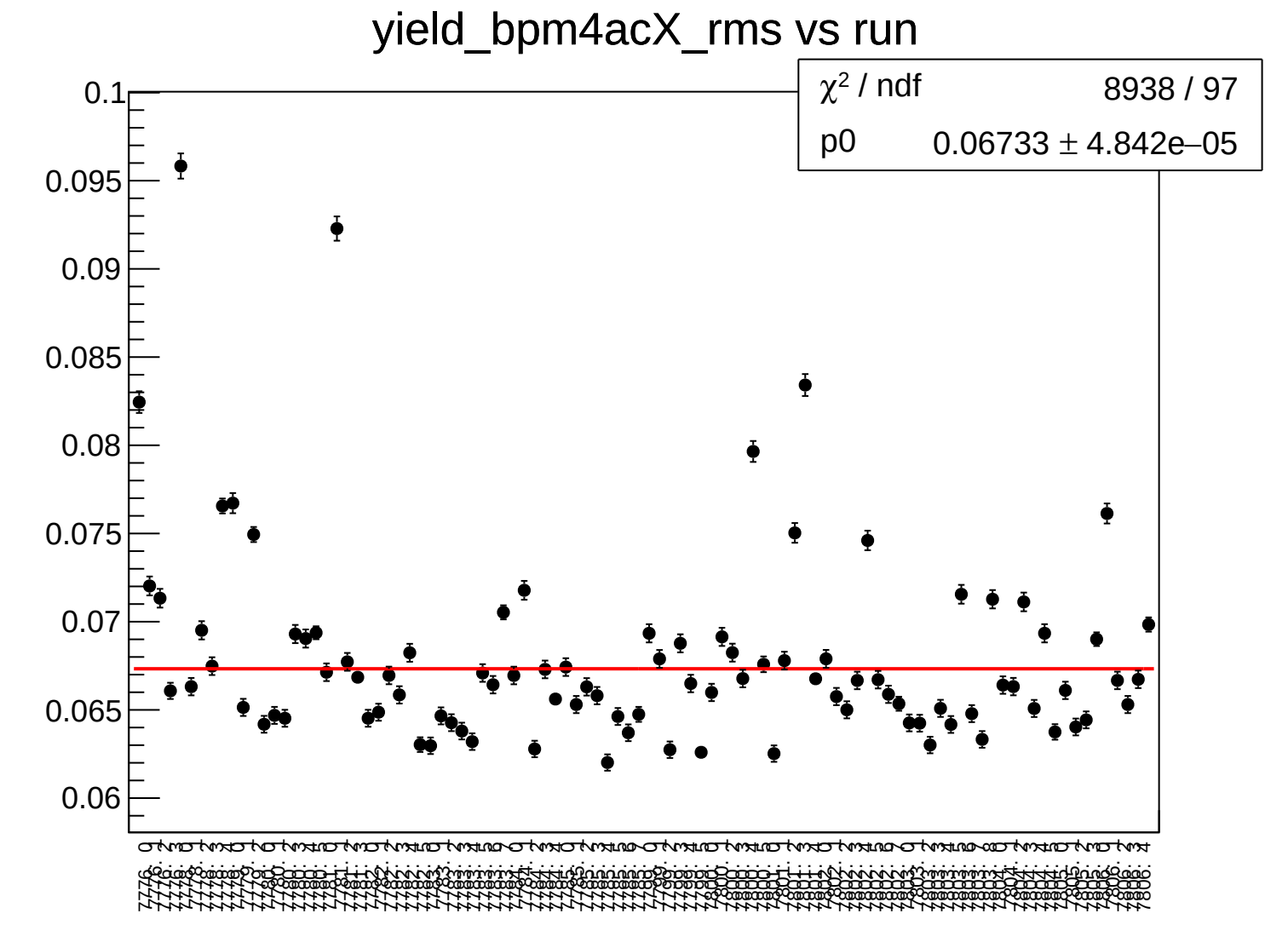

yield_bpm4eY_mean vs run
χ² / ndf 3.458e+05 / 97
p0 0.205 ± 1.313e−05
0.23
0.22
0.21
0.2
0.19
0.18
pull
Entries 98
Mean 188.1
Std Dev 0
150
100
50
0
−50
−100

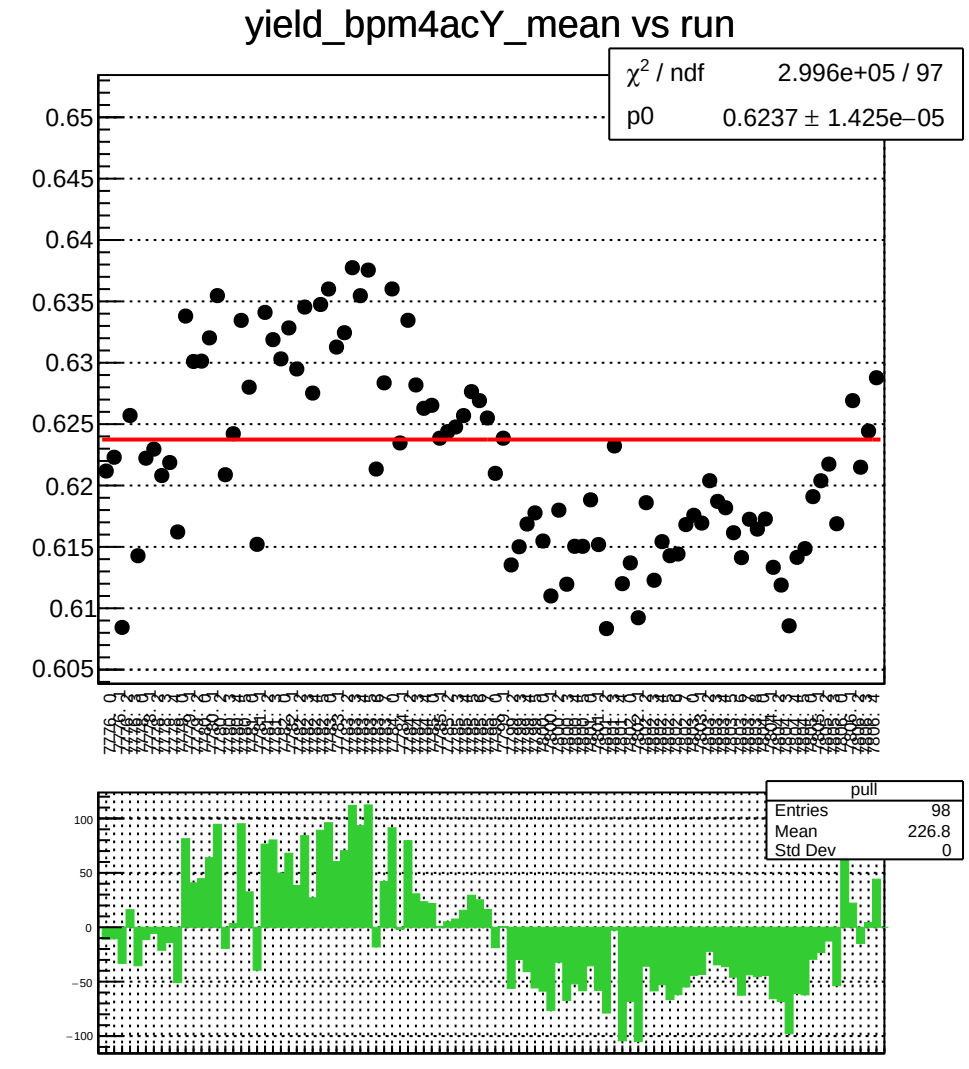

pull1D
Entries 98
Mean −0.7478
Std Dev 3.42
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

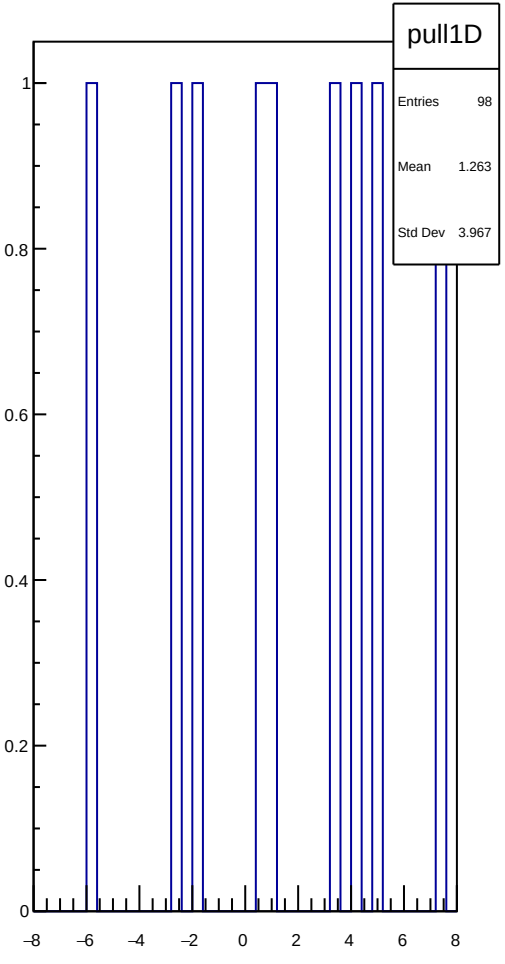

yield_bpm4eY_rms vs run
χ² / ndf 5.795e+04 / 97
p0 0.01275 ± 9.287e–06
0.05
0.04
0.03
0.02
0.01

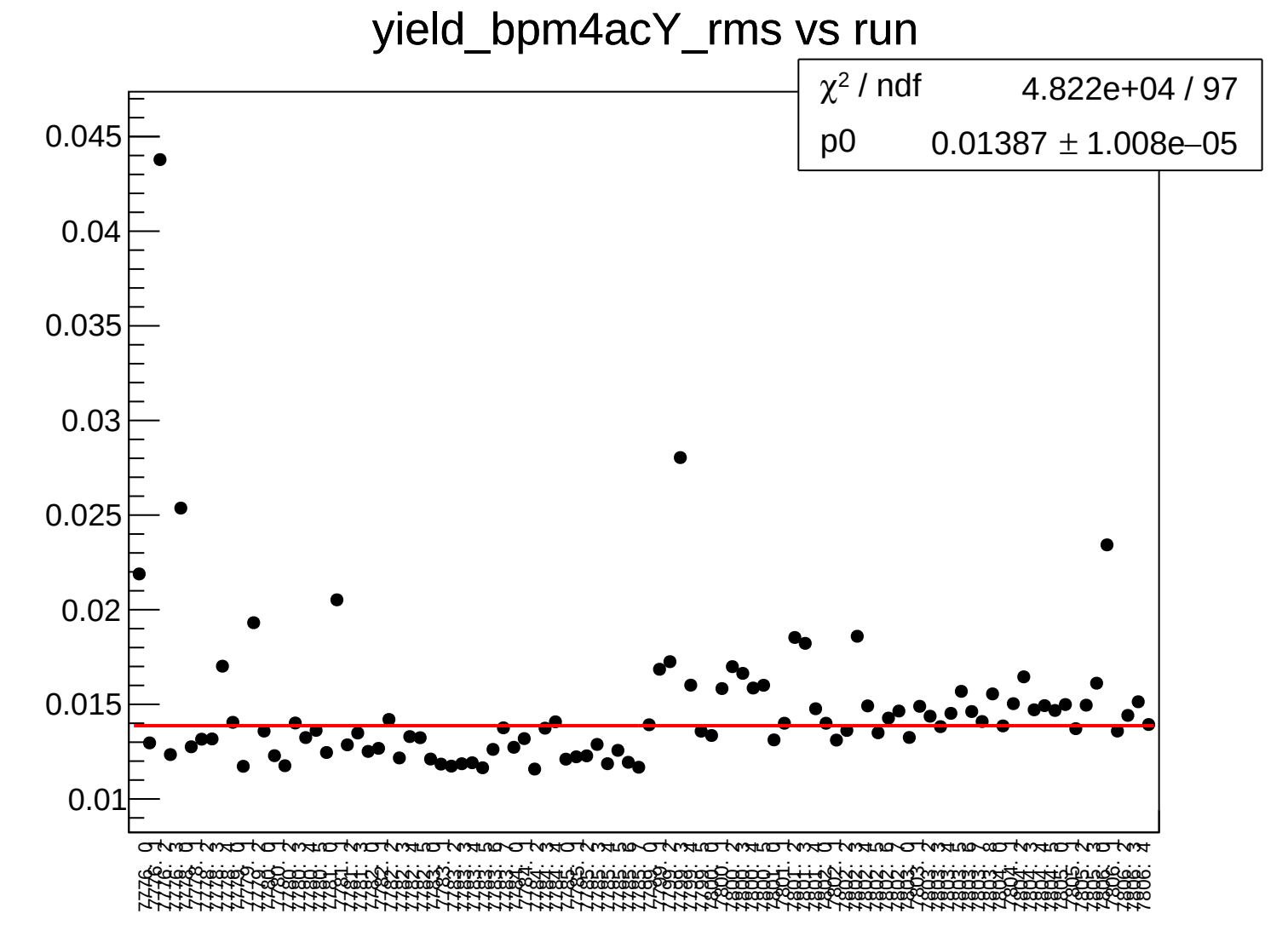

yield_bpm4acX_mean vs run
χ² / ndf 4.612e+04 / 97
p0 −0.9313 ± 6.847e−05
pull
Entries 98
Mean −183.4
Std Dev 0

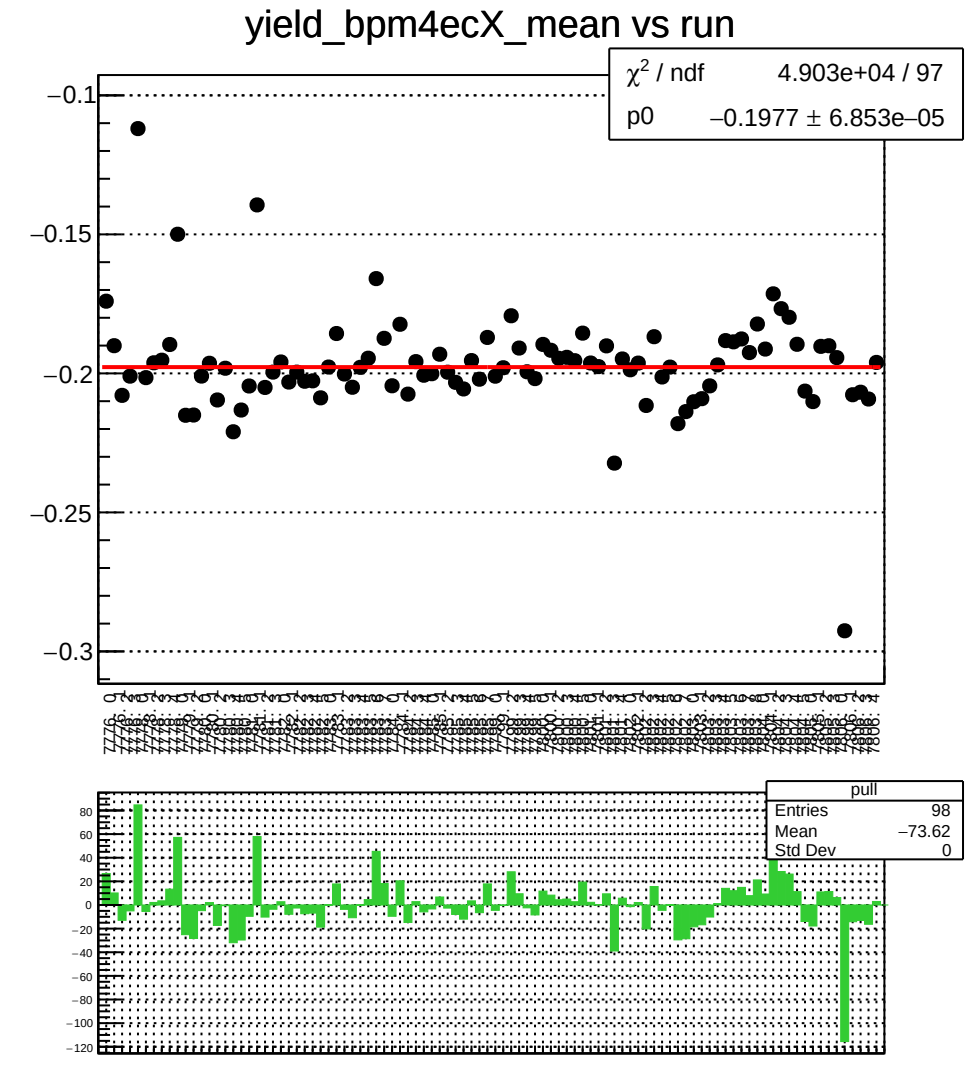

pull1D
Entries 98
Mean 0.9263
Std Dev 4.422

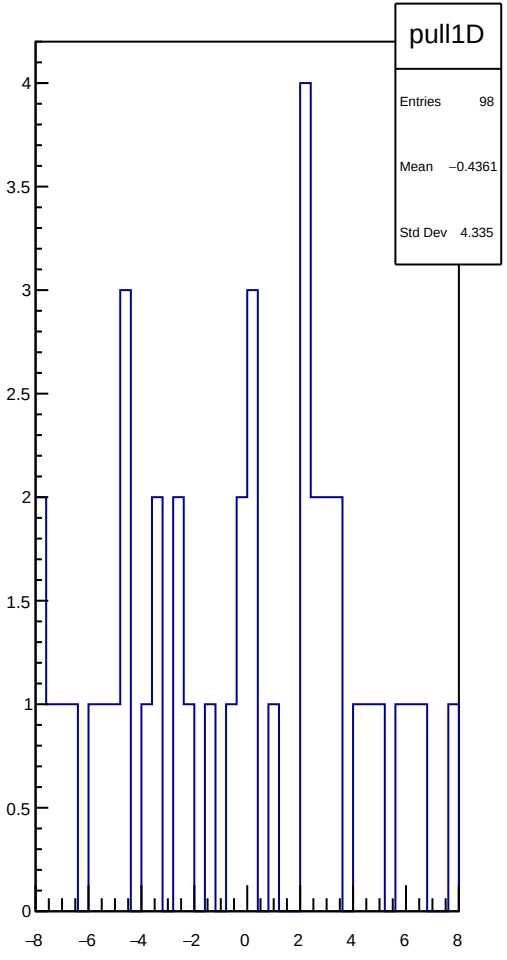

yield_bpm4acX_rms vs run
χ² / ndf 8938 / 97
p0 0.06733 ± 4.842e–05
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06

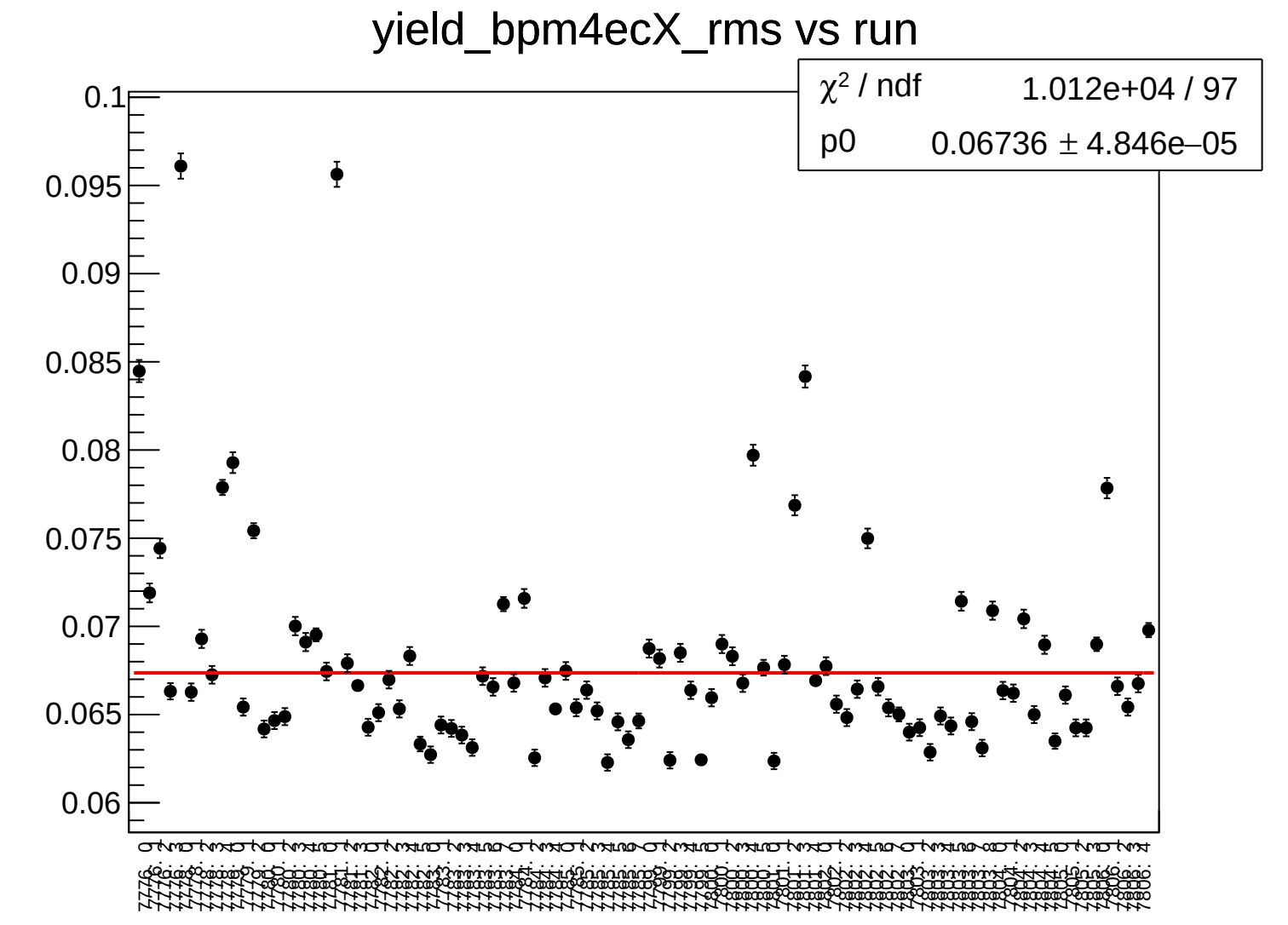

yield_bpm4acY_mean vs run
χ² / ndf 2.996e+05 / 97
p0 0.6237 ± 1.425e−05
0.65
0.645
0.64
0.635
0.63
0.625
0.62
0.615
0.61
0.605
pull
Entries 98
Mean 226.8
Std Dev 0
100
50
0
−50
−100

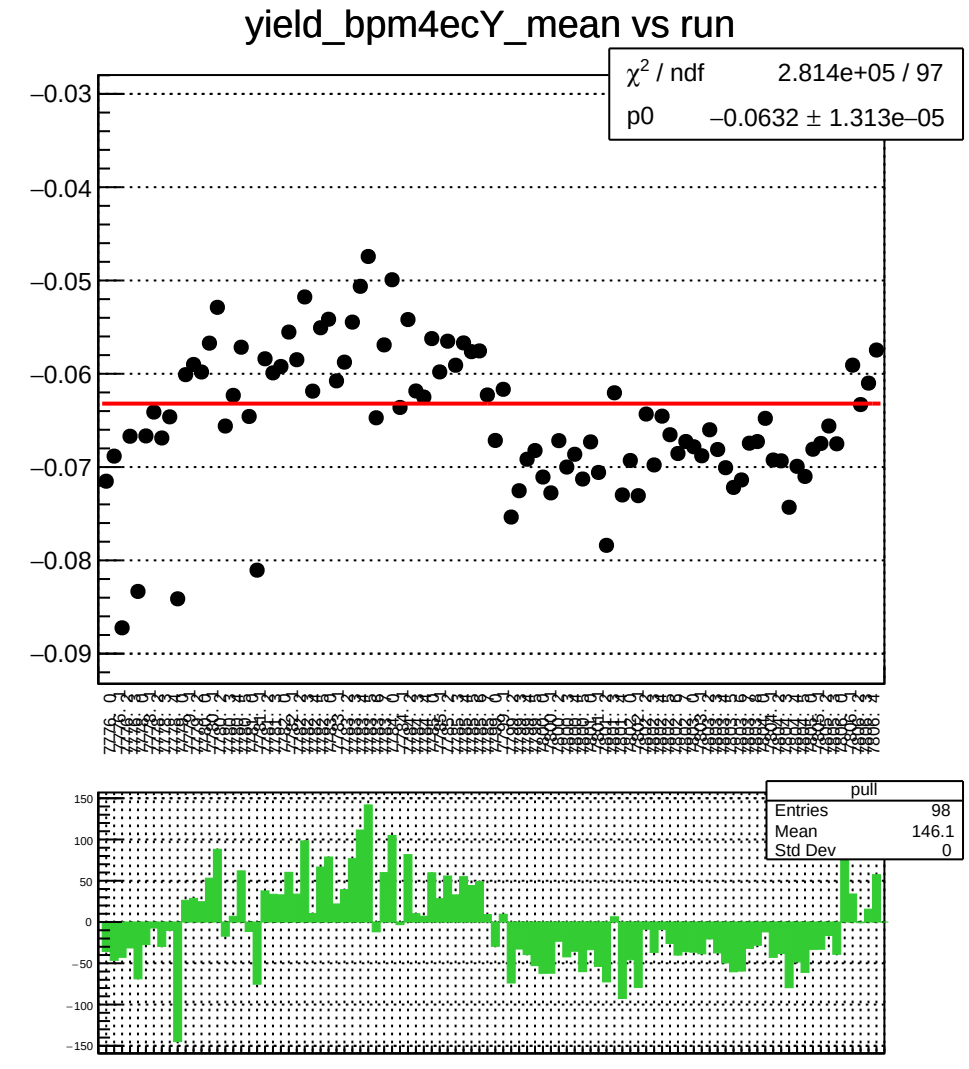

pull1D
Entries 98
Mean 1.263
Std Dev 3.967
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

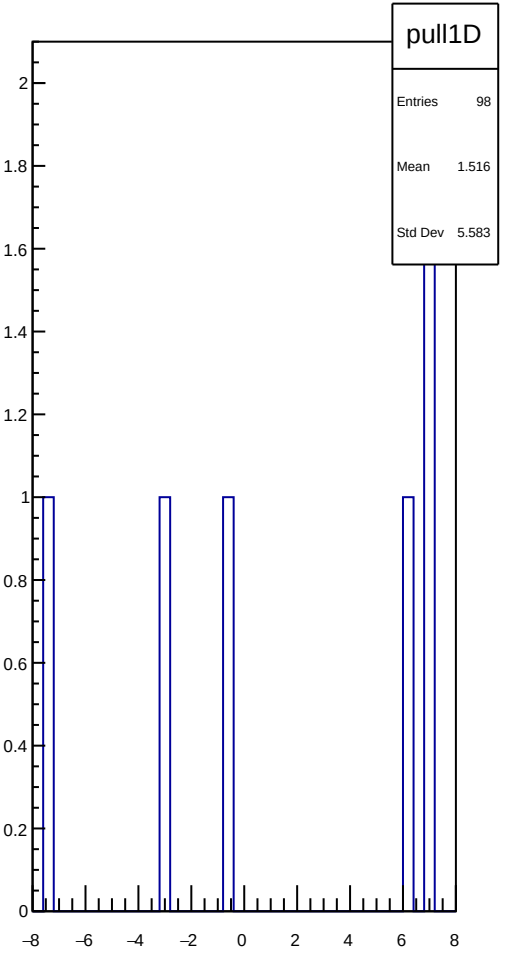

yield_bpm4acY_rms vs run
χ² / ndf 4.822e+04 / 97
p0 0.01387 ± 1.008e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

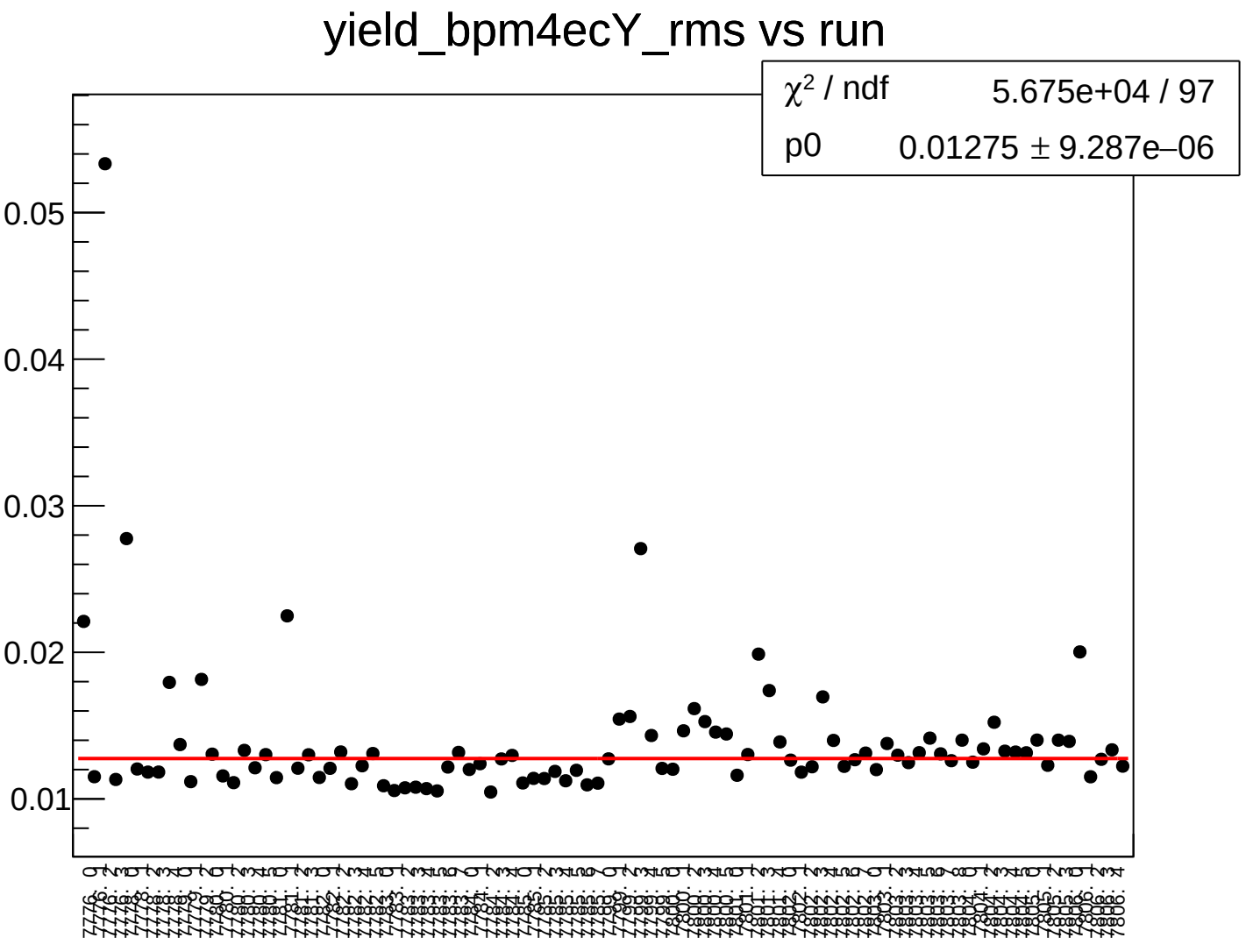

yield_bpm4ecX_mean vs run
χ² / ndf 4.903e+04 / 97
p0 −0.1977 ± 6.853e−05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 98
Mean −73.62
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

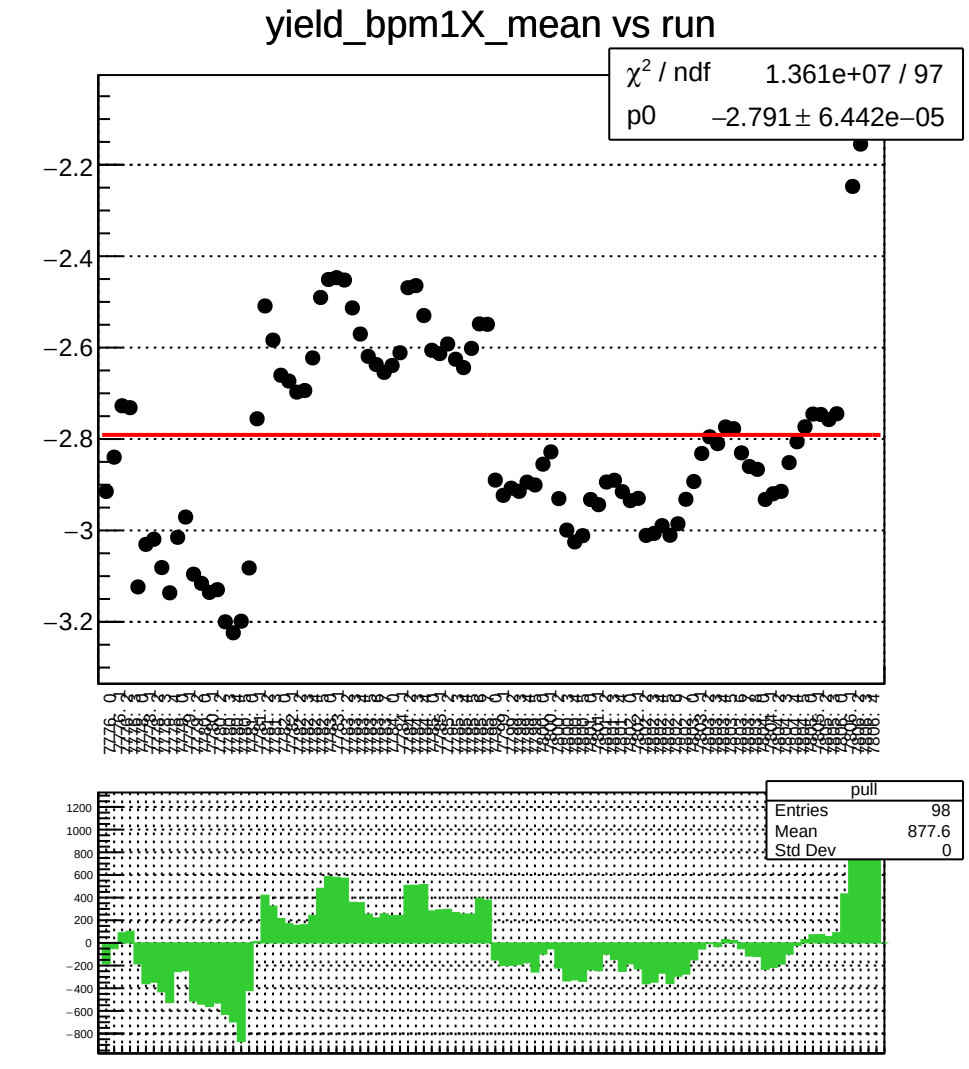

pull1D
Entries 98
Mean −0.4361
Std Dev 4.335
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

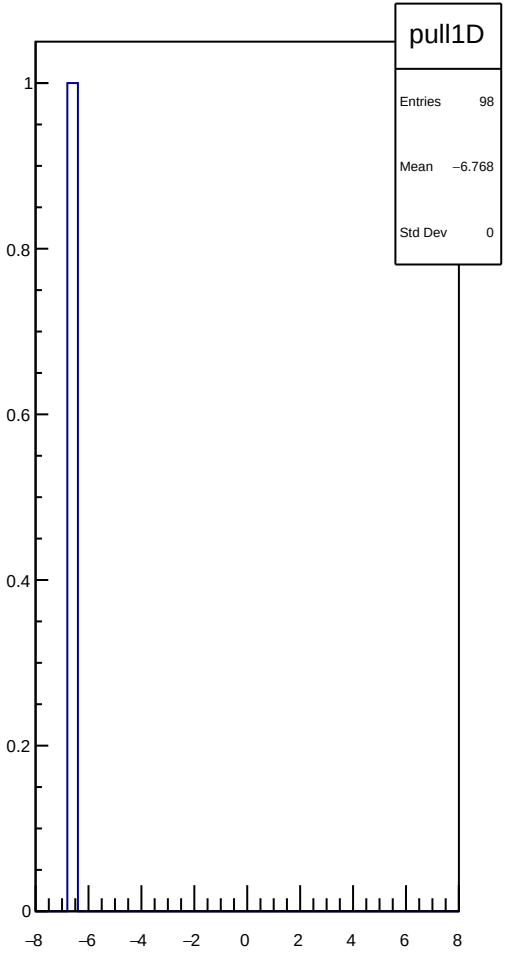

yield_bpm4ecX_rms vs run
χ² / ndf 1.012e+04 / 97
p0 0.06736 ± 4.846e–05
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06

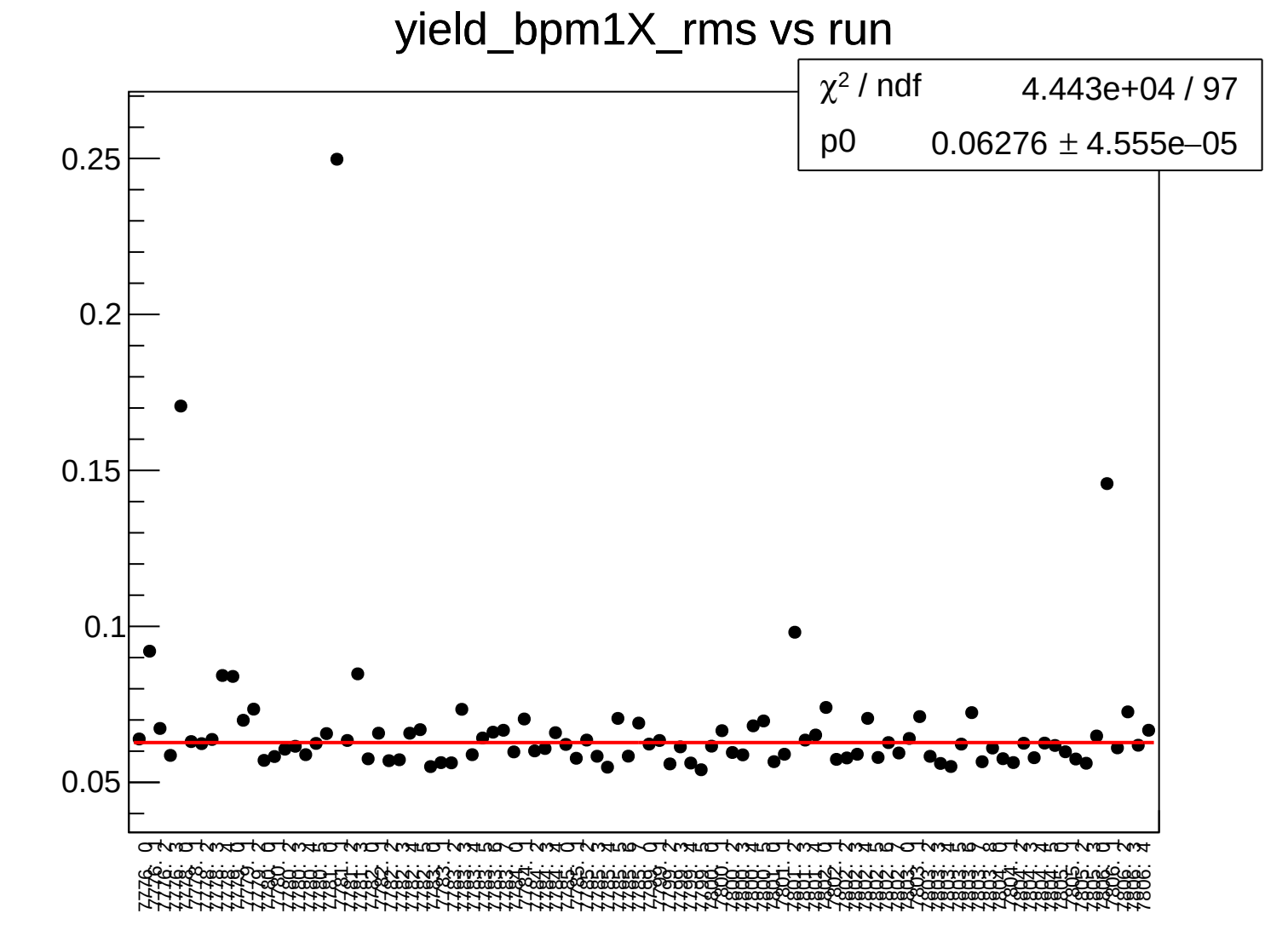

yield_bpm4ecY_mean vs run
χ² / ndf 2.814e+05 / 97
p0 −0.0632 ± 1.313e−05
−0.03
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
pull
Entries 98
Mean 146.1
Std Dev 0
150
100
50
0
−50
−100
−150

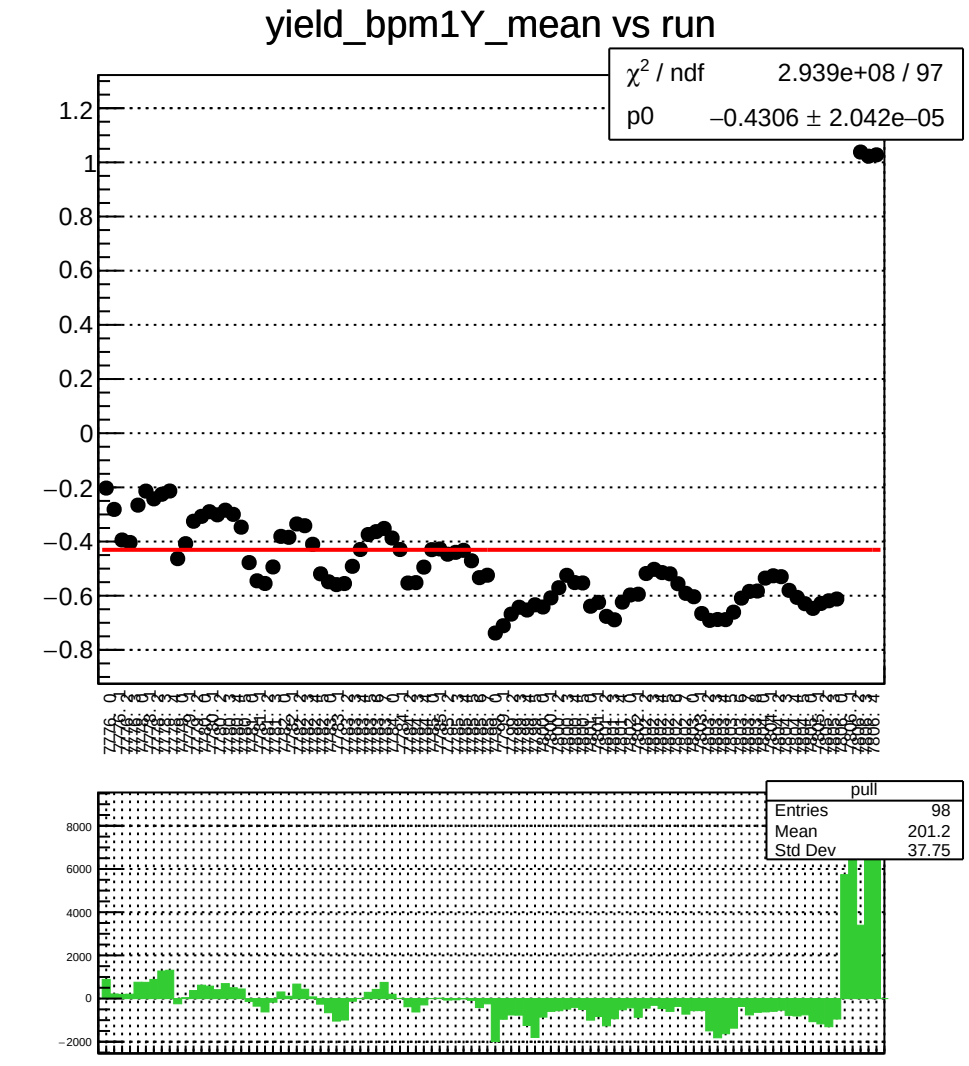

pull1D
Entries 98
Mean 1.516
Std Dev 5.583
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

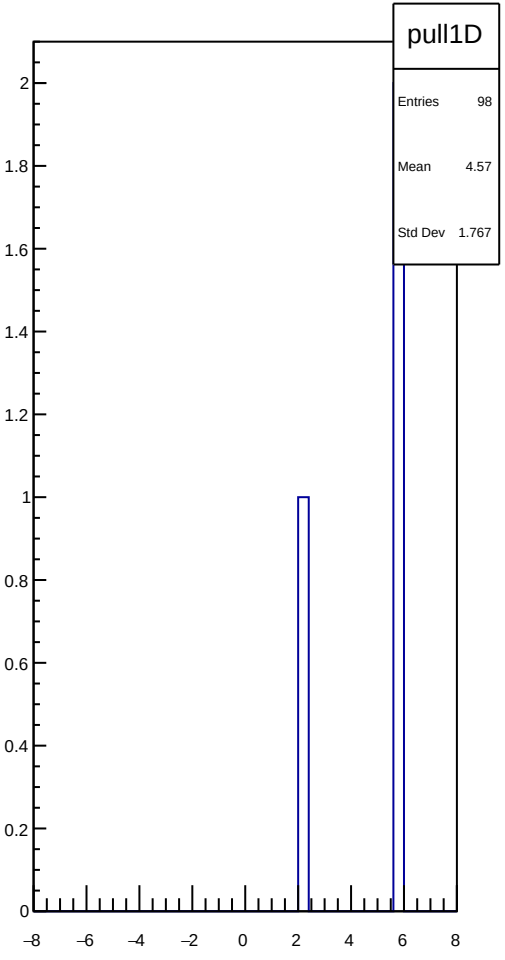

yield_bpm4ecY_rms vs run
χ² / ndf 5.675e+04 / 97
p0 0.01275 ± 9.287e–06
0.05
0.04
0.03
0.02
0.01

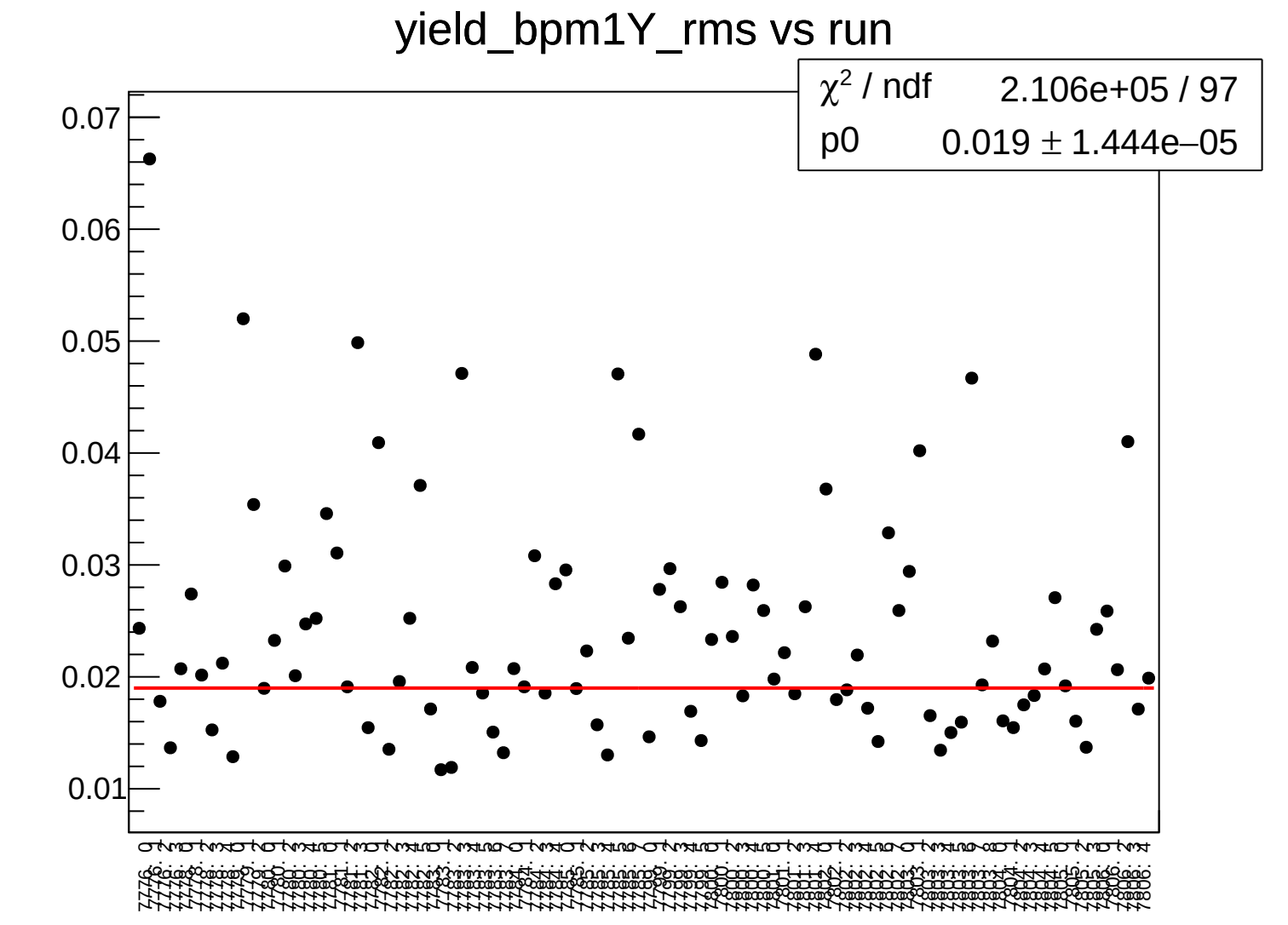

yield_bpm1X_mean vs run
χ² / ndf 1.361e+07 / 97
p0 −2.791 ± 6.442e−05
−2.2
−2.4
−2.6
−2.8
−3
−3.2
pull
Entries 98
Mean 877.6
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

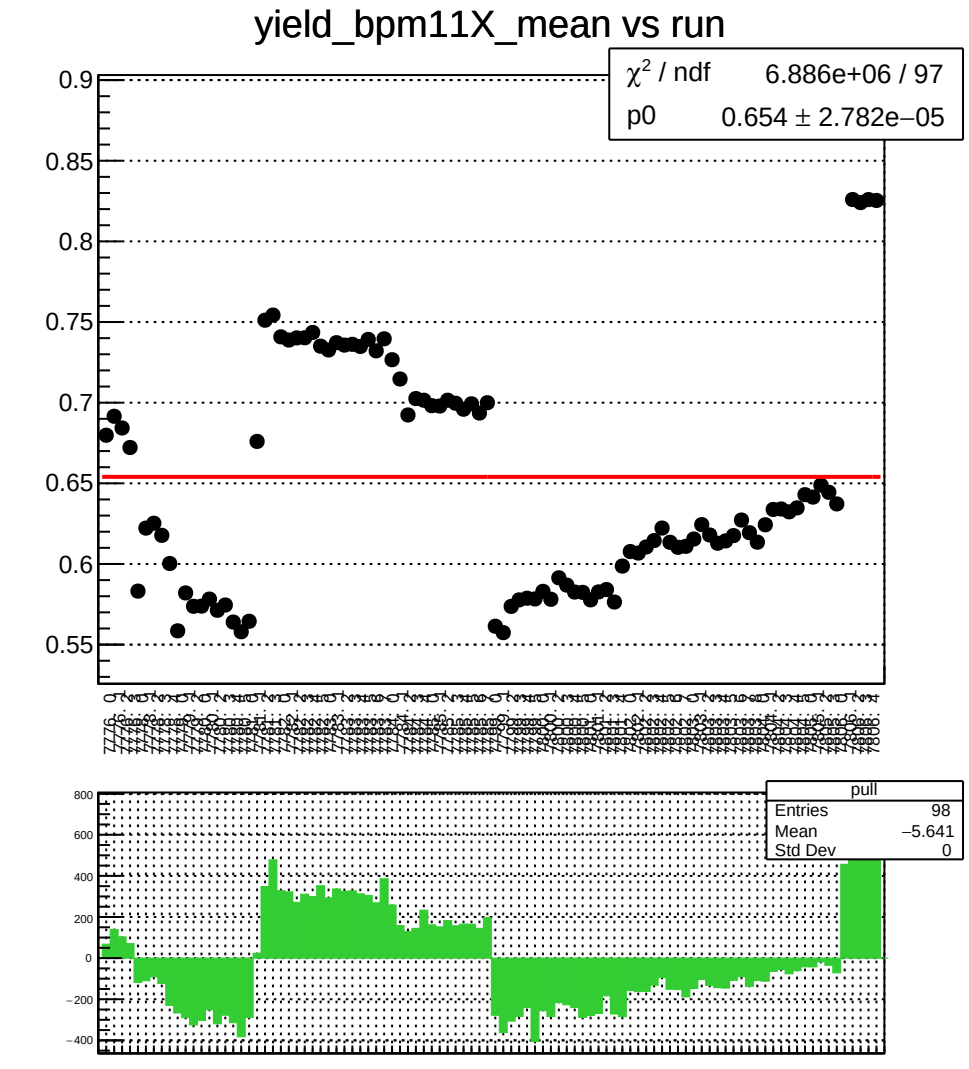

pull1D
Entries 98
Mean −6.768
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

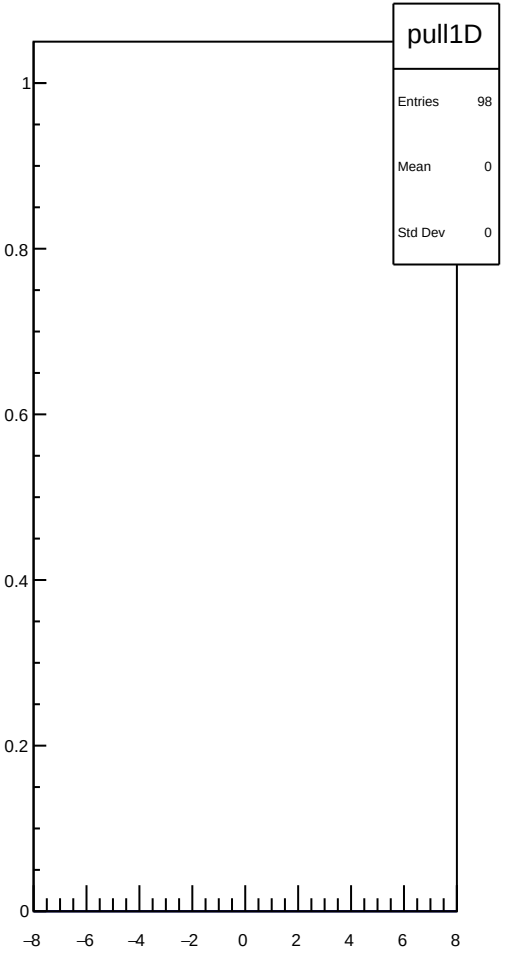

yield_bpm1X_rms vs run
χ² / ndf 4.443e+04 / 97
p0 0.06276 ± 4.555e–05
0.25
0.2
0.15
0.1
0.05

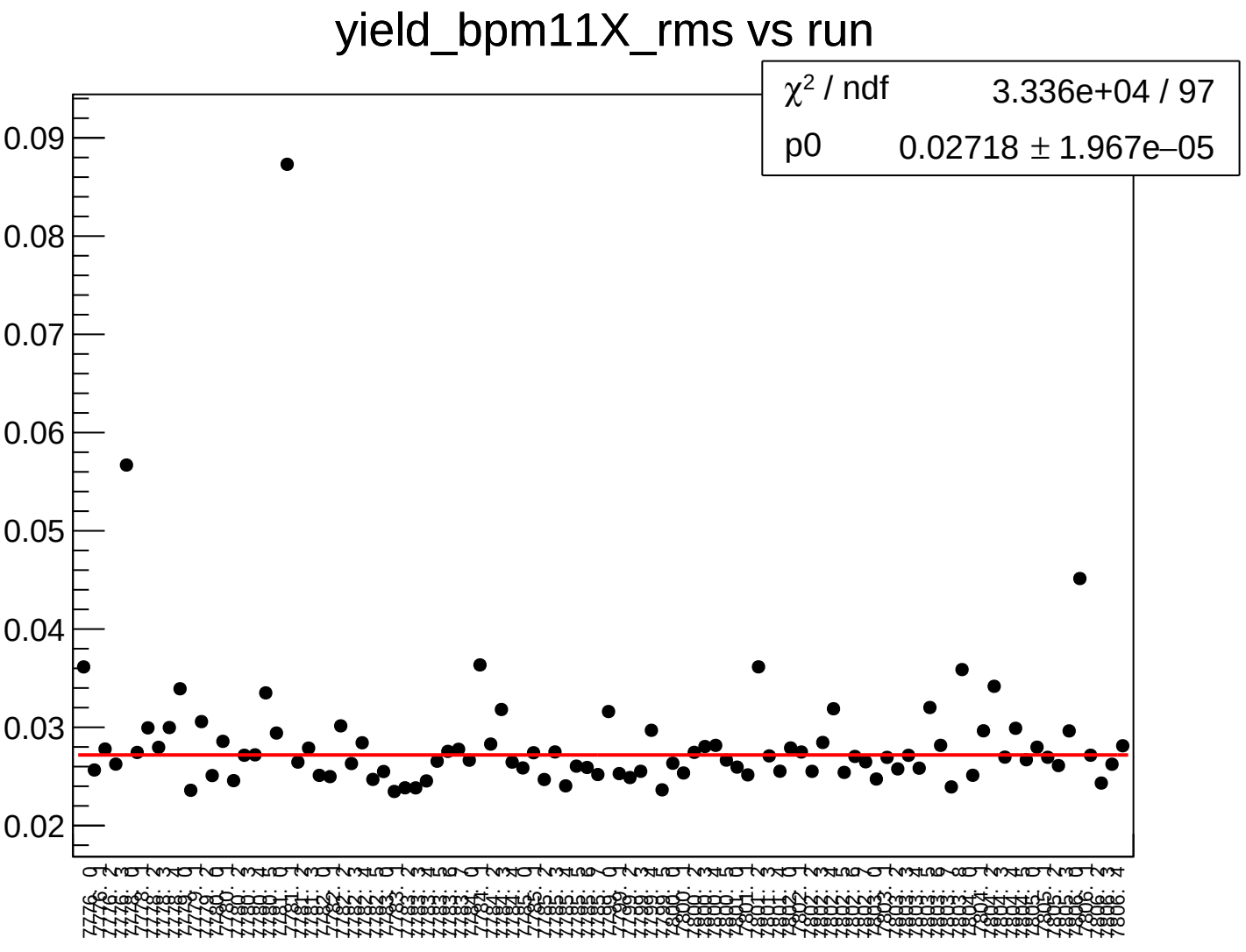

yield_bpm1Y_mean vs run
χ² / ndf 2.939e+08 / 97
p0 −0.4306 ± 2.042e−05
pull
Entries 98
Mean 201.2
Std Dev 37.75

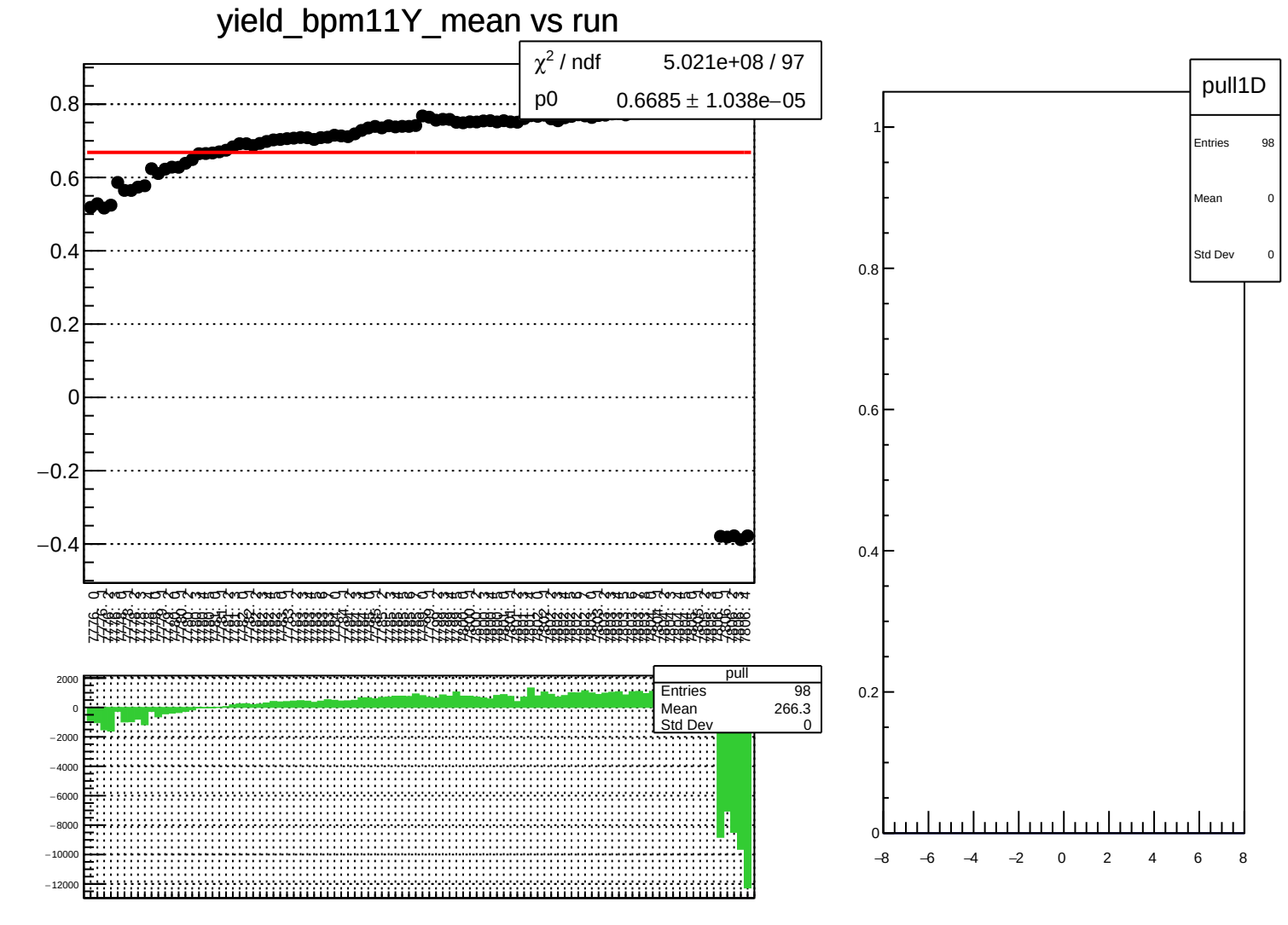

pull1D
Entries 98
Mean 4.57
Std Dev 1.767

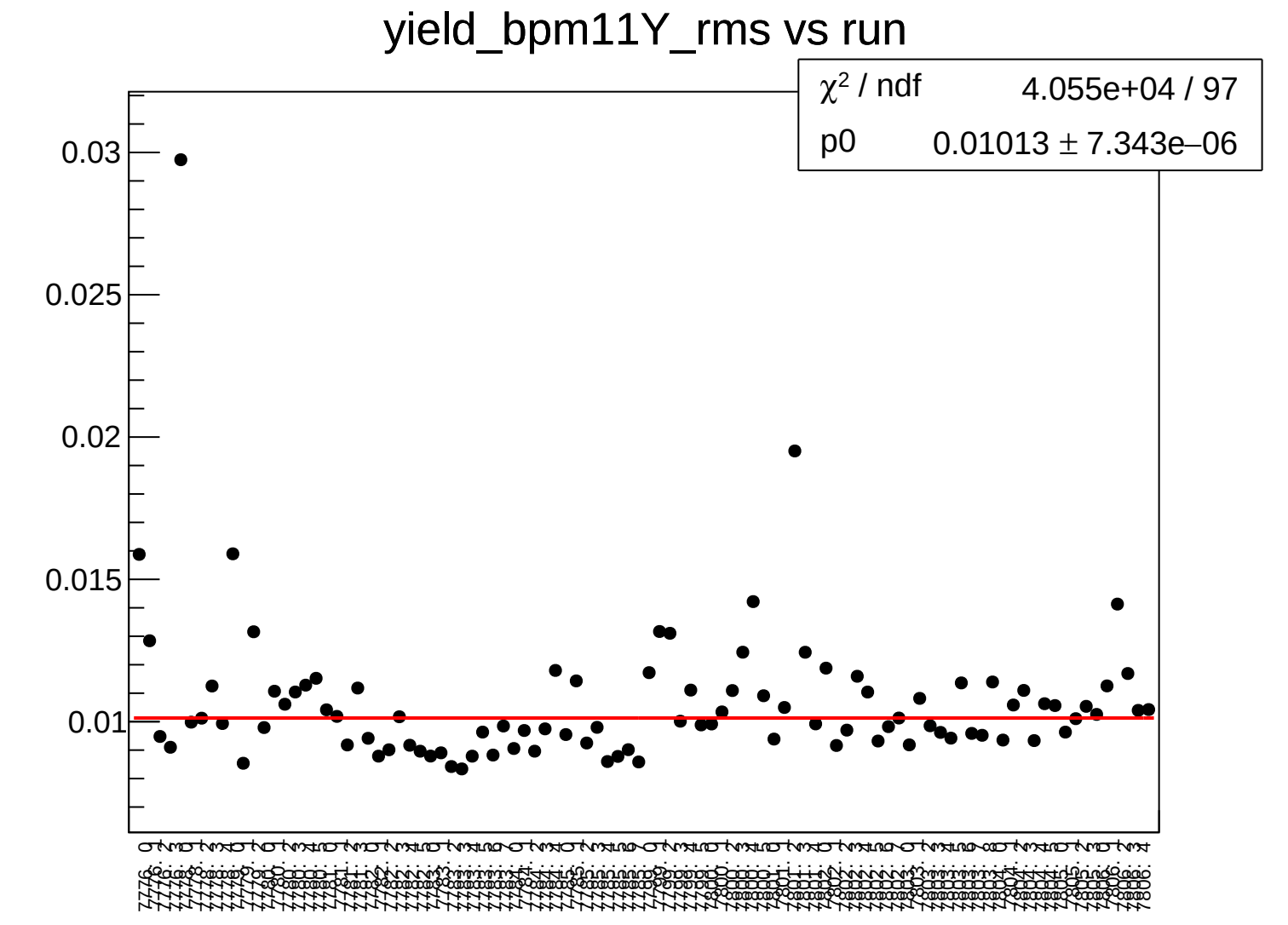

yield_bpm1Y_rms vs run
χ^2 / ndf 2.106e+05 / 97
p0 0.019 ± 1.444e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

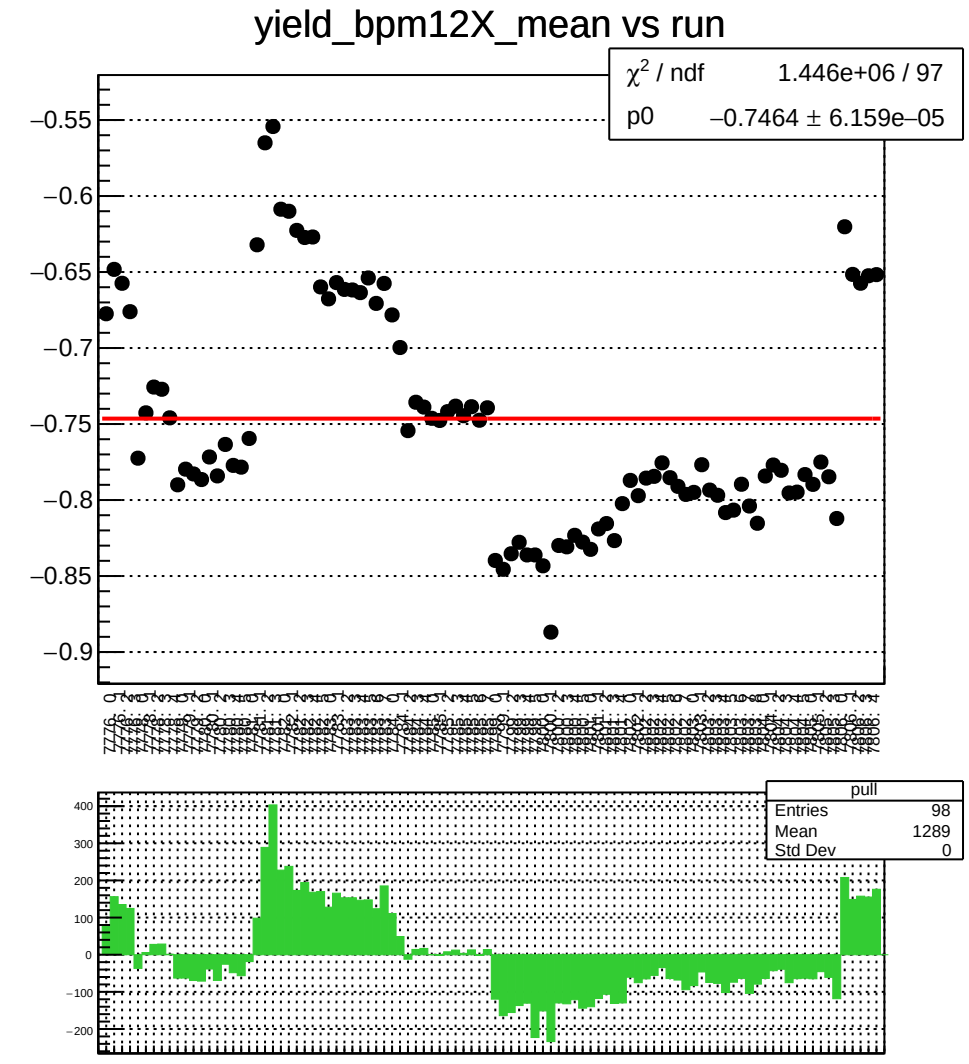

yield_bpm11X_mean vs run
χ² / ndf 6.886e+06 / 97
p0 0.654 ± 2.782e−05
pull
Entries 98
Mean −5.641
Std Dev 0

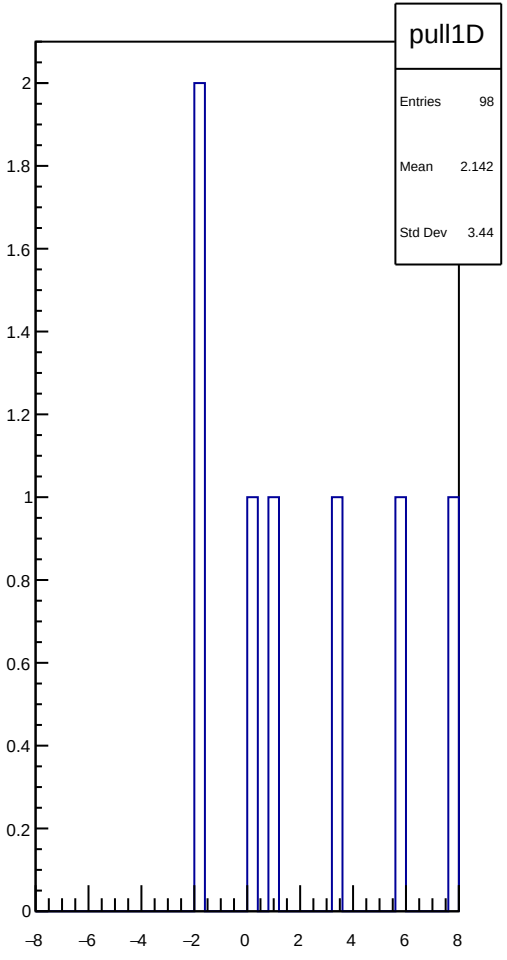

pull1D
Entries 98
Mean 0
Std Dev 0

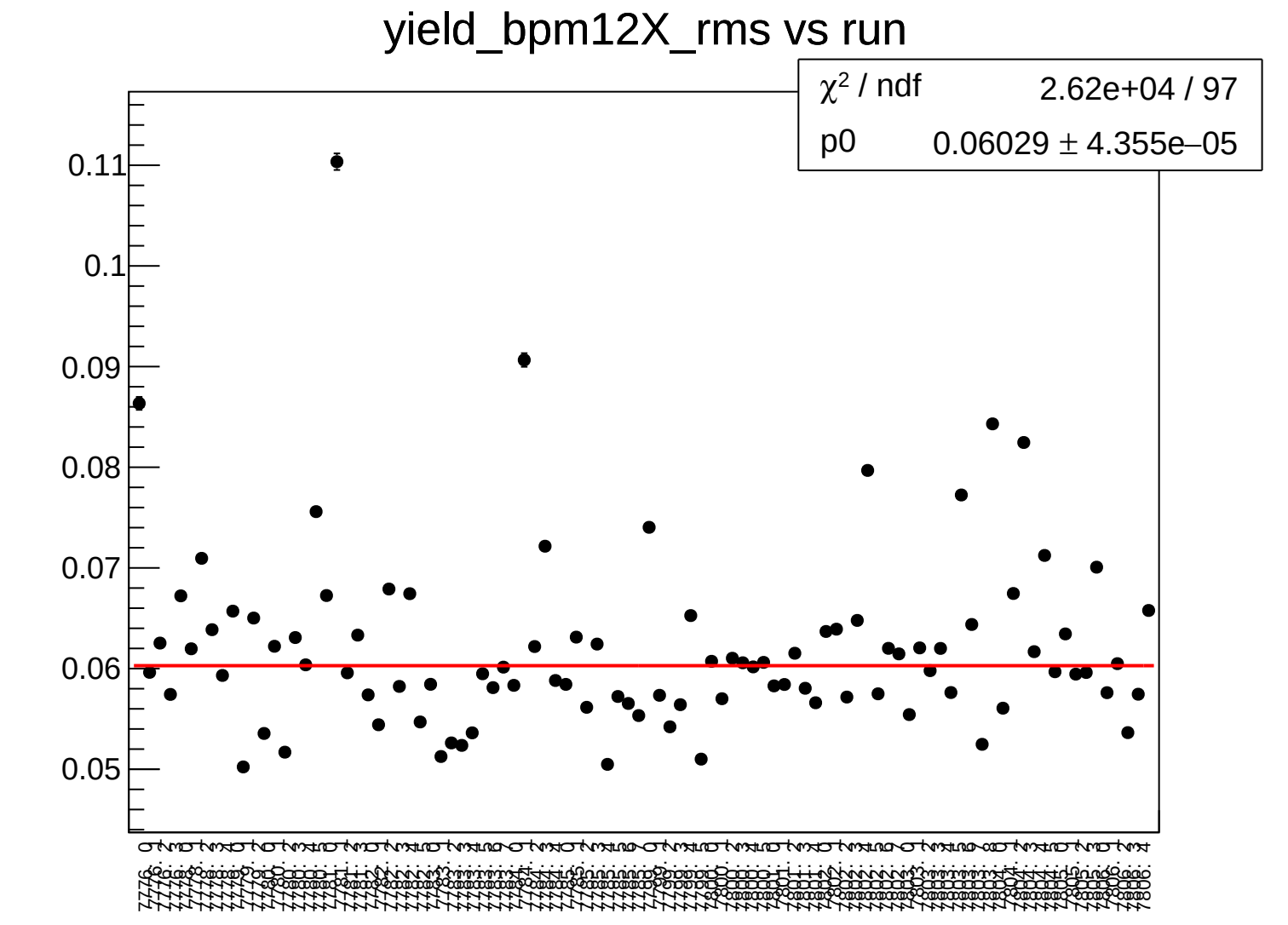

yield_bpm11X_rms vs run
χ² / ndf 3.336e+04 / 97
p0 0.02718 ± 1.967e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

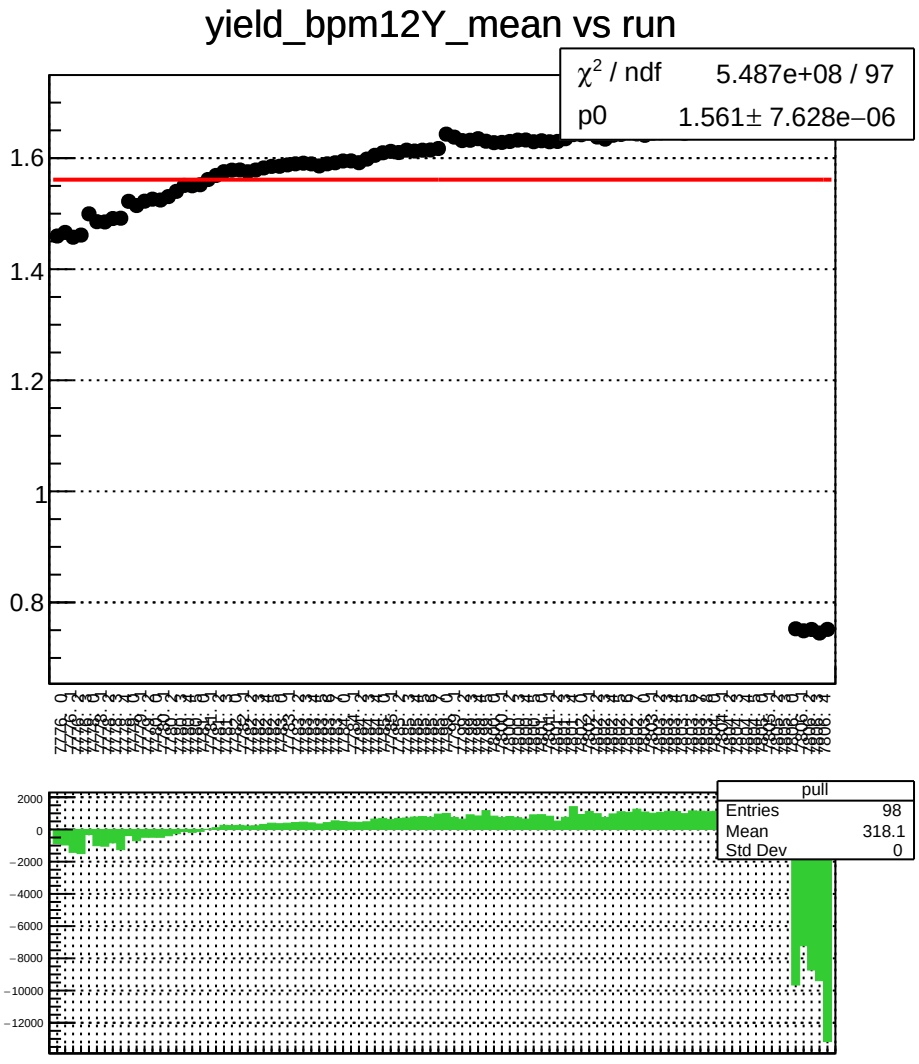

yield_bpm11Y_mean vs run
χ² / ndf 5.021e+08 / 97
p0 0.6685 ± 1.038e−05
pull
Entries 98
Mean 266.3
Std Dev 0
pull1D
Entries 98
Mean 0
Std Dev 0

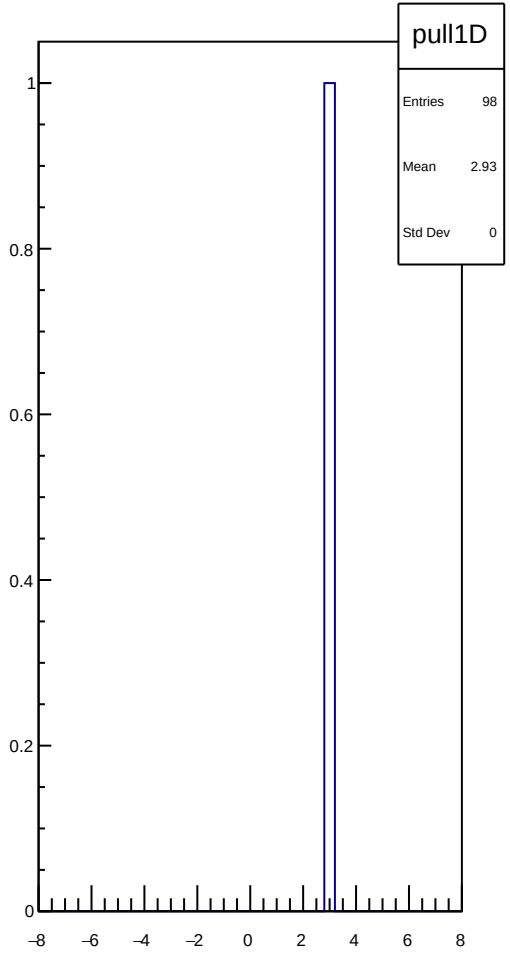

yield_bpm11Y_rms vs run
χ² / ndf 4.055e+04 / 97
p0 0.01013 ± 7.343e–06
0.03
0.025
0.02
0.015
0.01

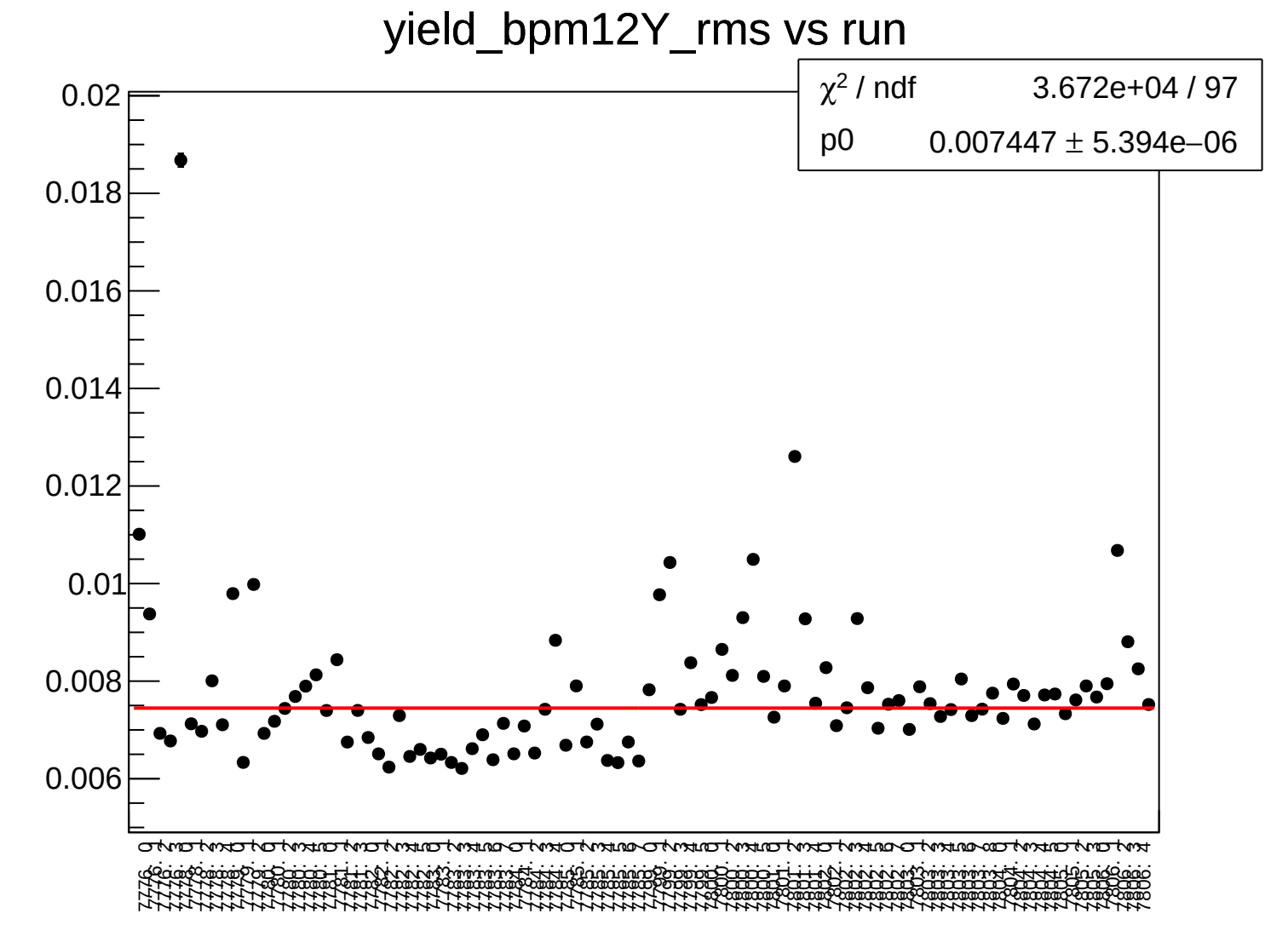

yield_bpm12X_mean vs run
χ² / ndf 1.446e+06 / 97
p0 −0.7464 ± 6.159e−05
pull
Entries 98
Mean 1289
Std Dev 0

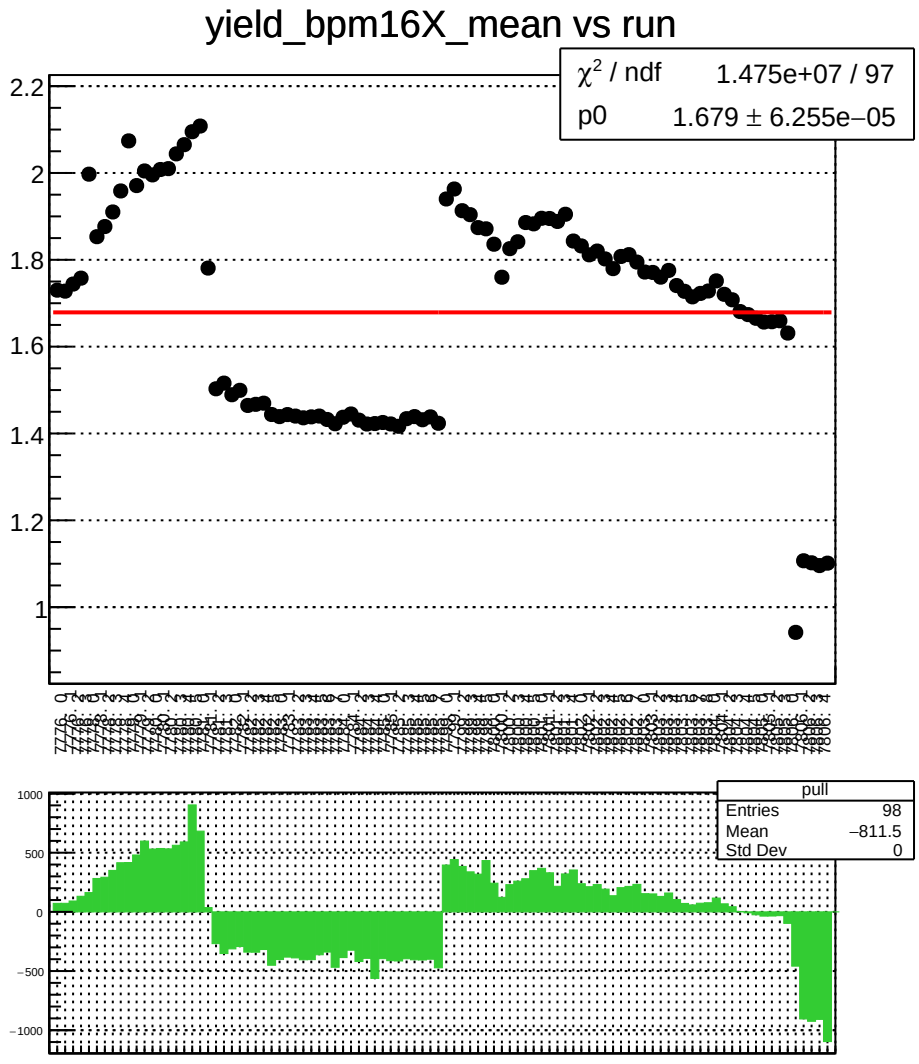

pull1D
Entries 98
Mean 2.142
Std Dev 3.44

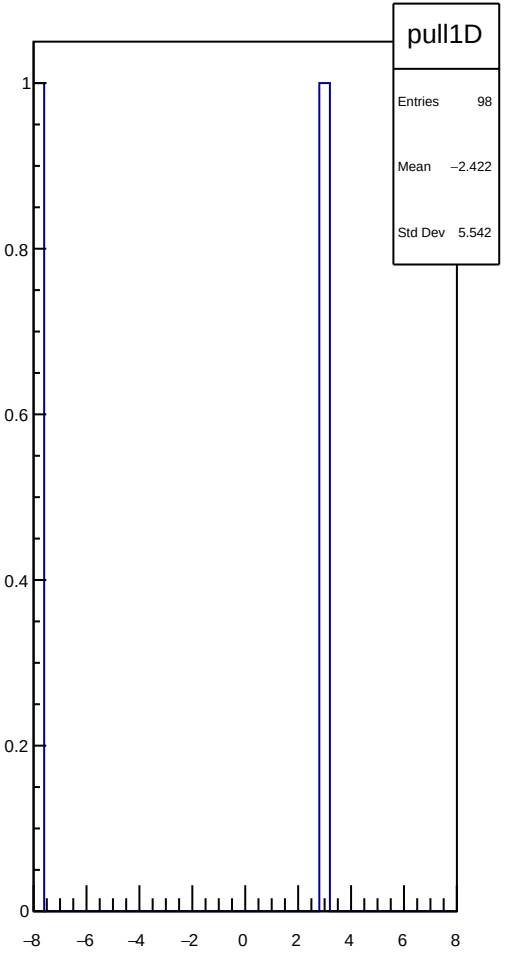

yield_bpm12X_rms vs run
χ² / ndf 2.62e+04 / 97
p0 0.06029 ± 4.355e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05

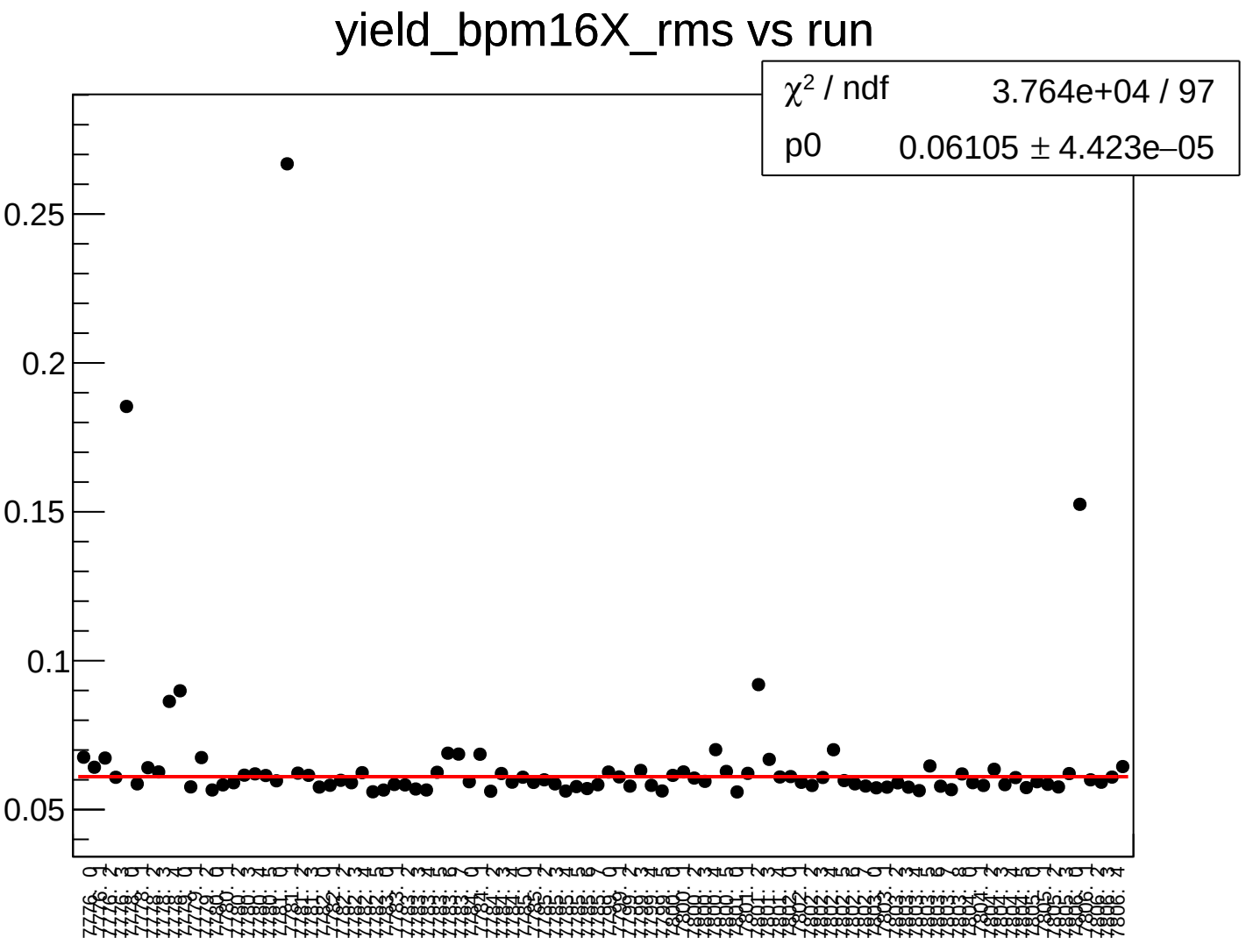

yield_bpm12Y_mean vs run
χ² / ndf 5.487e+08 / 97
p0 1.561± 7.628e−06
1.6
1.4
1.2
1
0.8
pull
Entries 98
Mean 318.1
Std Dev 0
2000
0
−2000
−4000
−6000
−8000
−10000
−12000

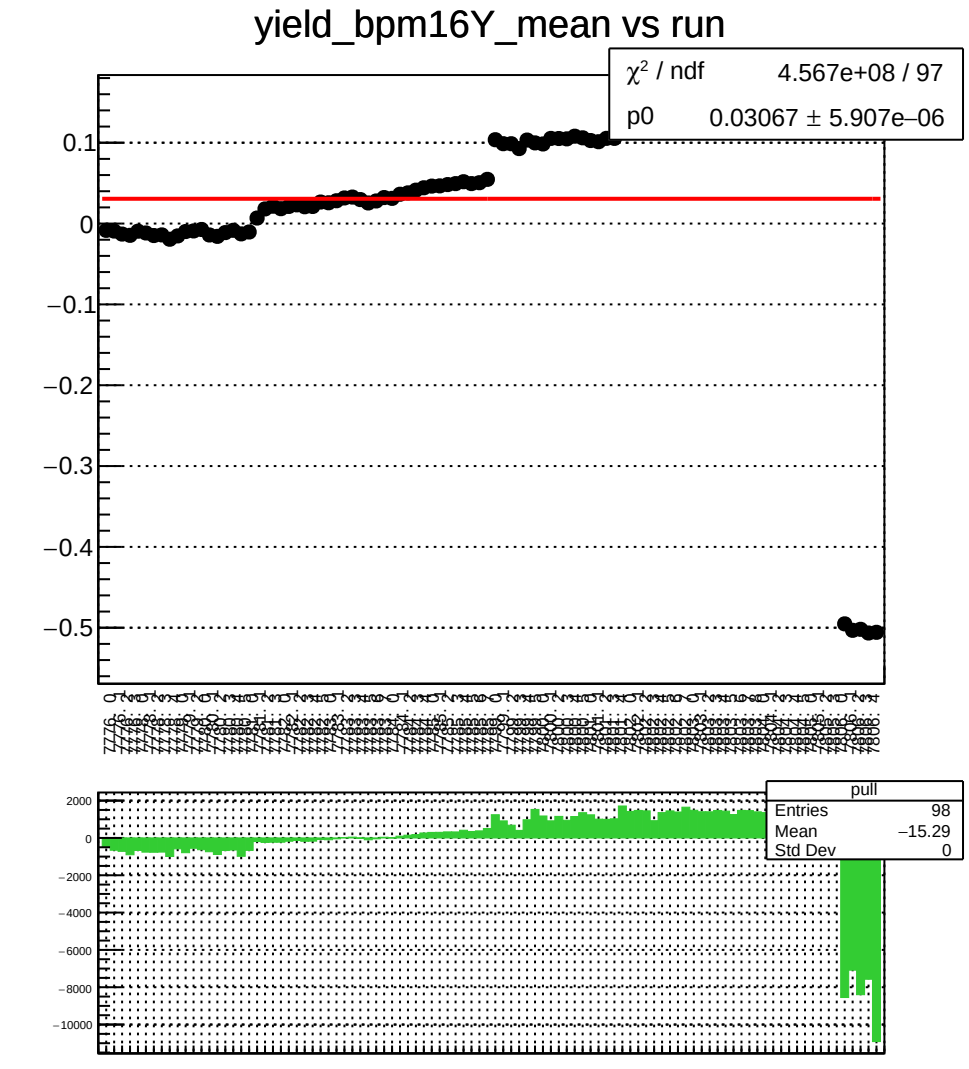

pull1D
Entries 98
Mean 2.93
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

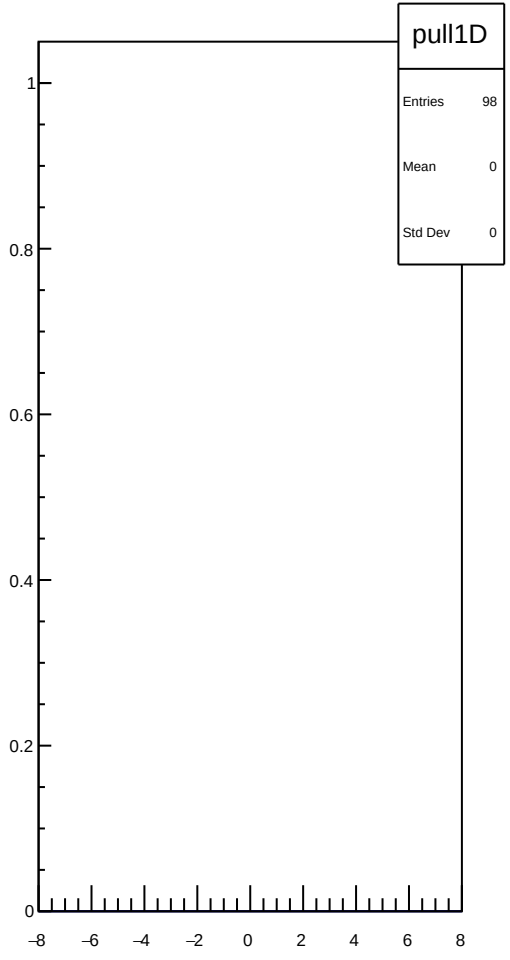

yield_bpm12Y_rms vs run
χ² / ndf 3.672e+04 / 97
p0 0.007447 ± 5.394e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

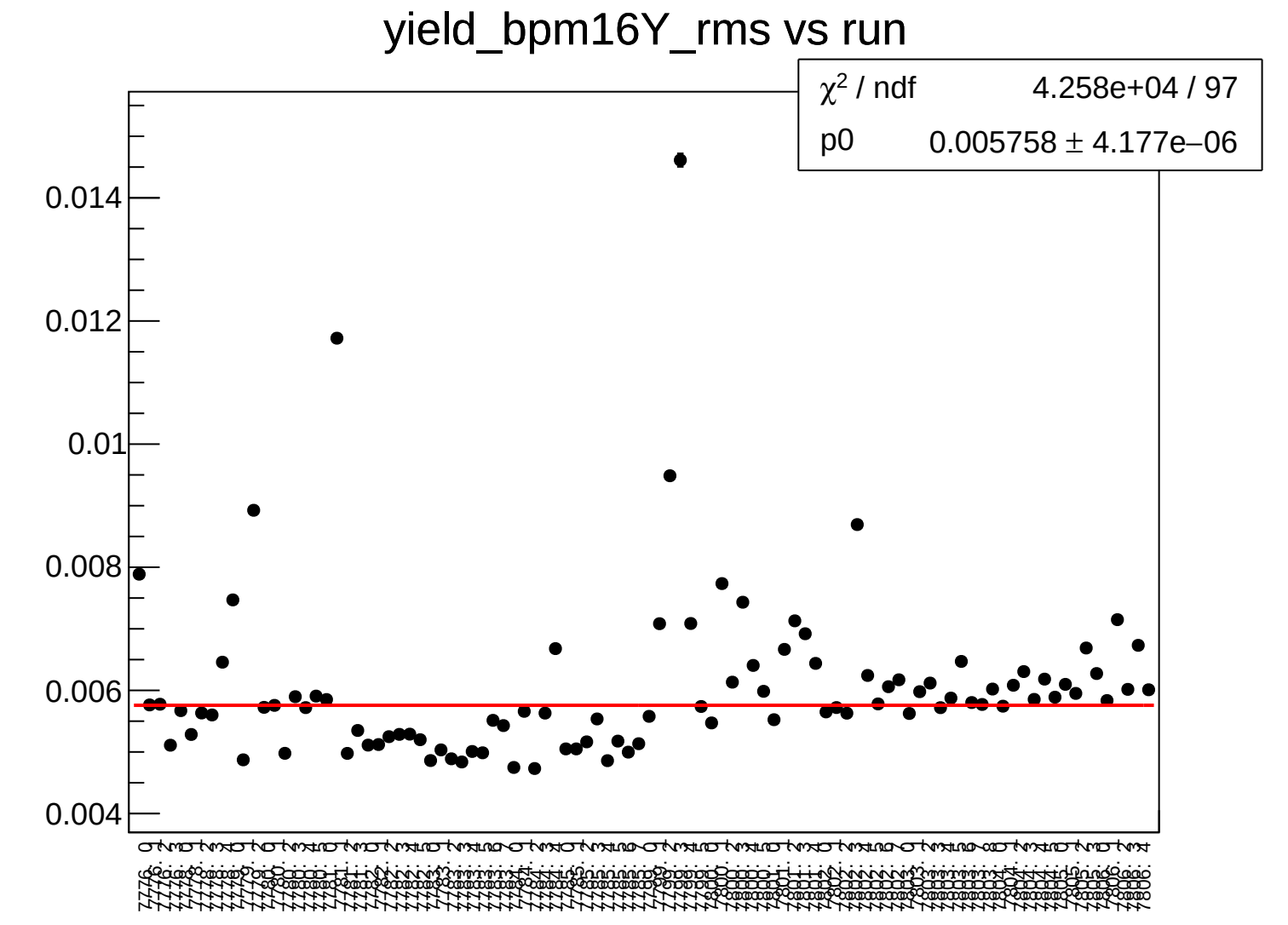

yield_bpm16X_mean vs run
χ² / ndf 1.475e+07 / 97
p0 1.679 ± 6.255e−05
2.2
2
1.8
1.6
1.4
1.2
1
pull
Entries 98
Mean −811.5
Std Dev 0
1000
500
0
−500
−1000

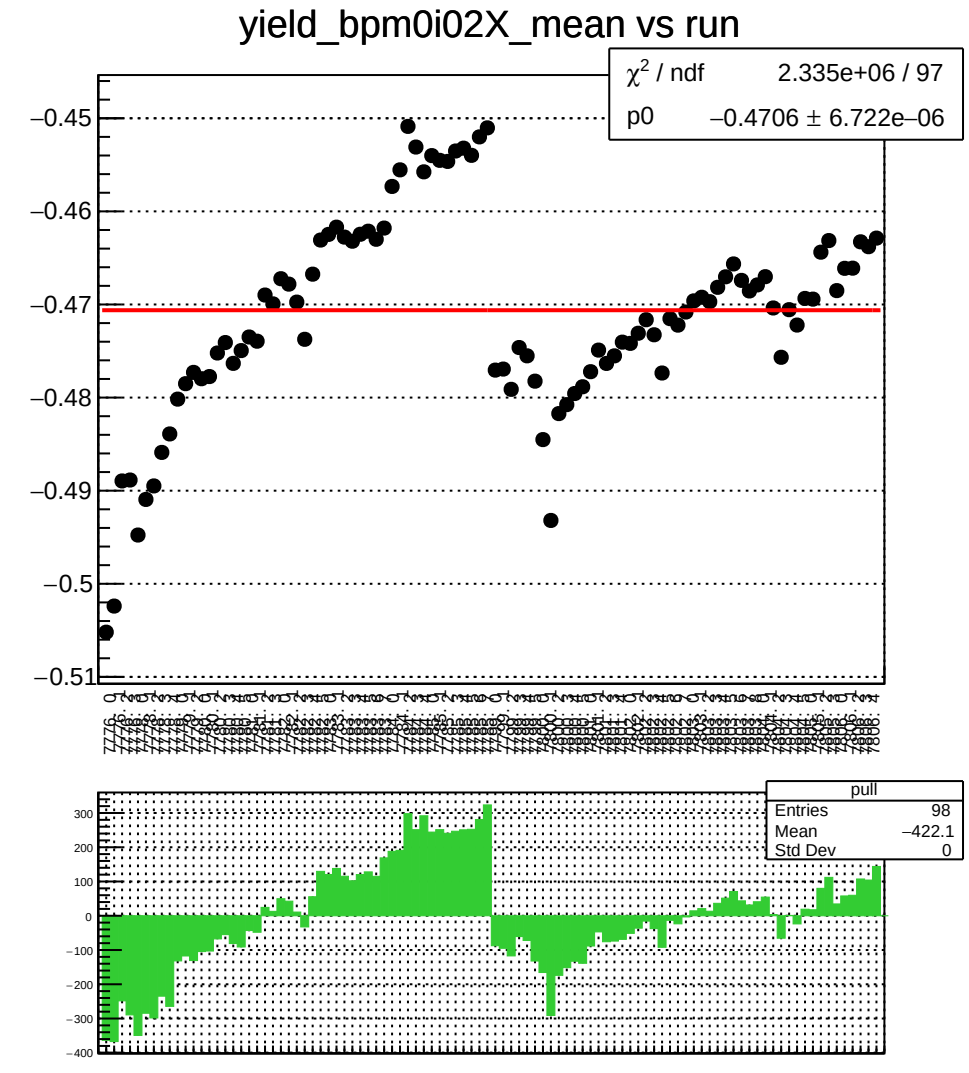

pull1D
Entries 98
Mean −2.422
Std Dev 5.542
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

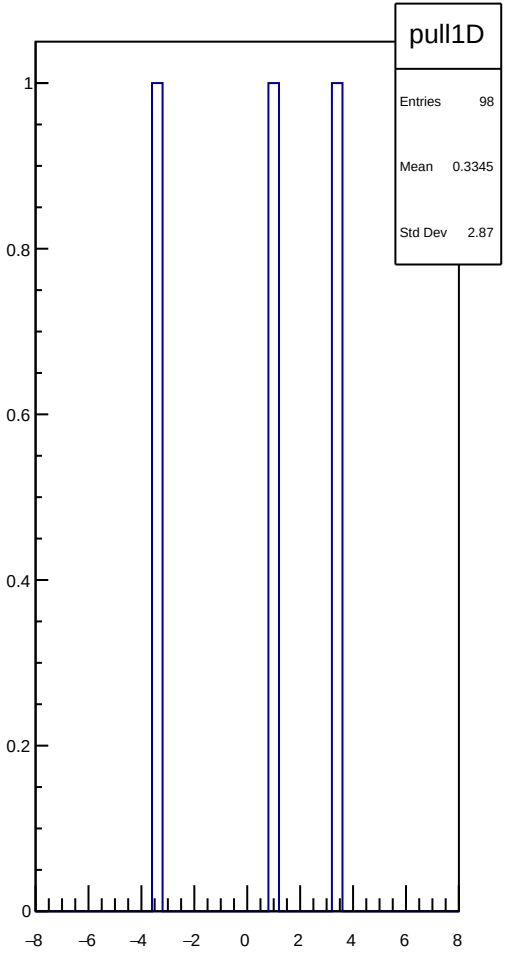

yield_bpm16X_rms vs run
χ² / ndf 3.764e+04 / 97
p0 0.06105 ± 4.423e–05
0.25
0.2
0.15
0.1
0.05

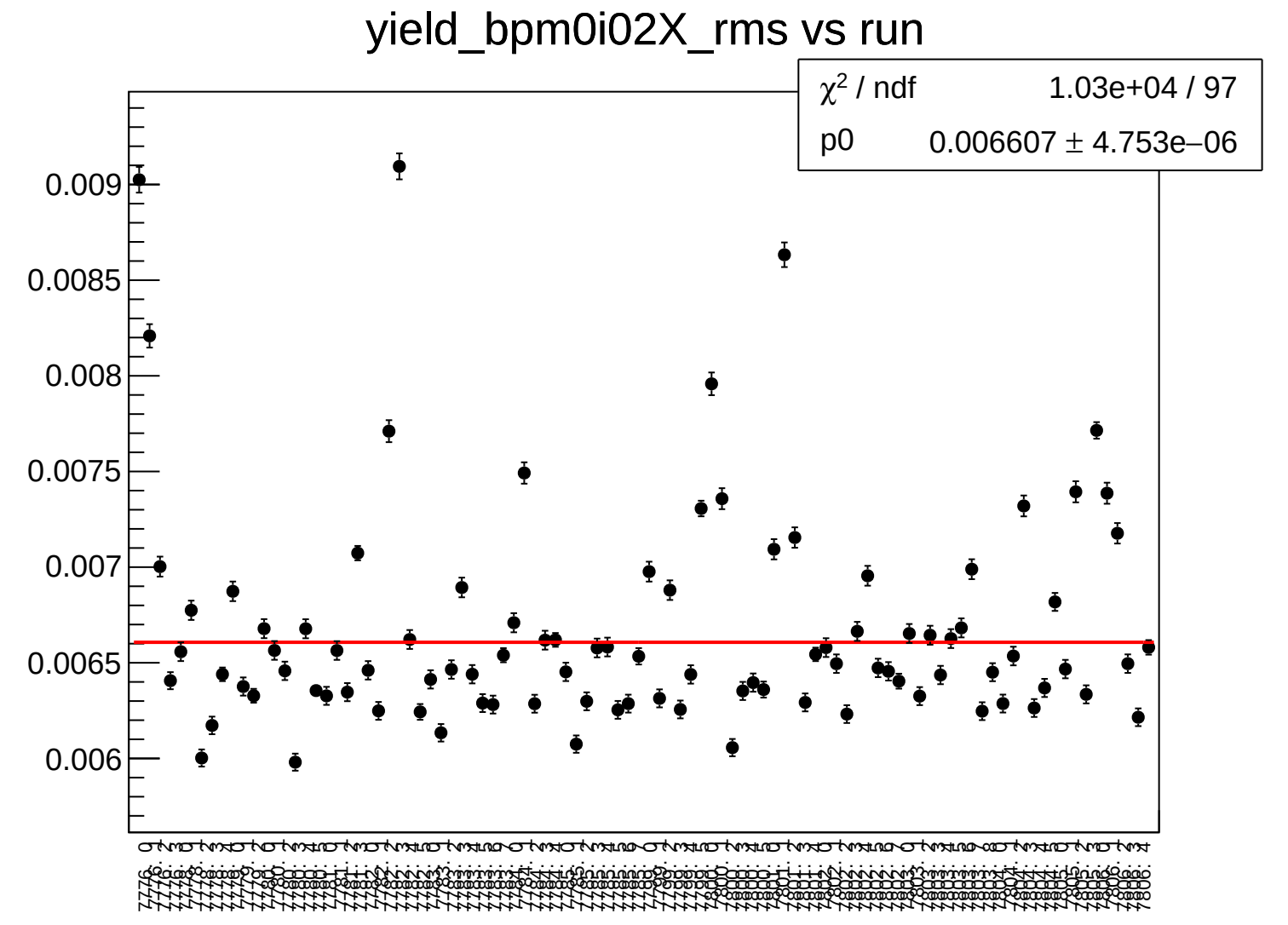

yield_bpm16Y_mean vs run
χ² / ndf 4.567e+08 / 97
p0 0.03067 ± 5.907e−06
pull
Entries 98
Mean −15.29
Std Dev 0

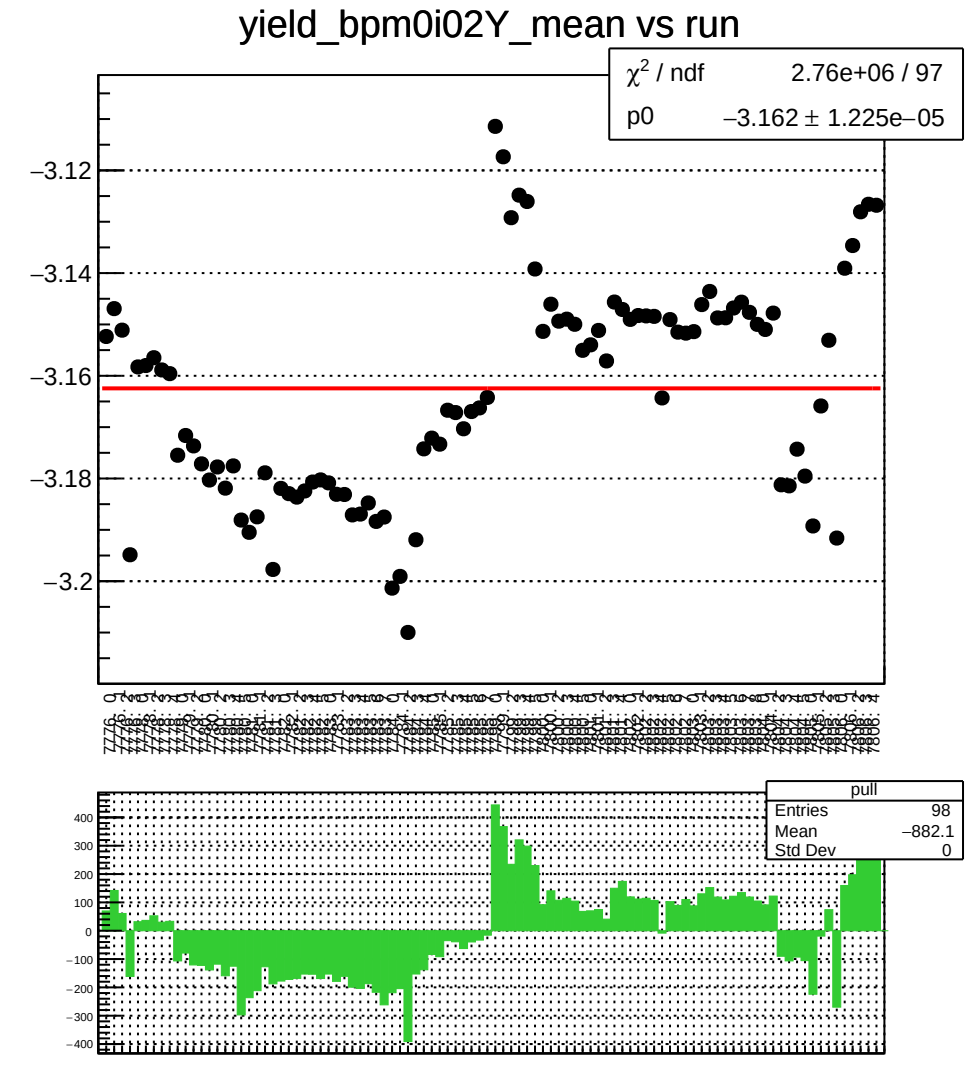

pull1D
Entries 98
Mean 0
Std Dev 0

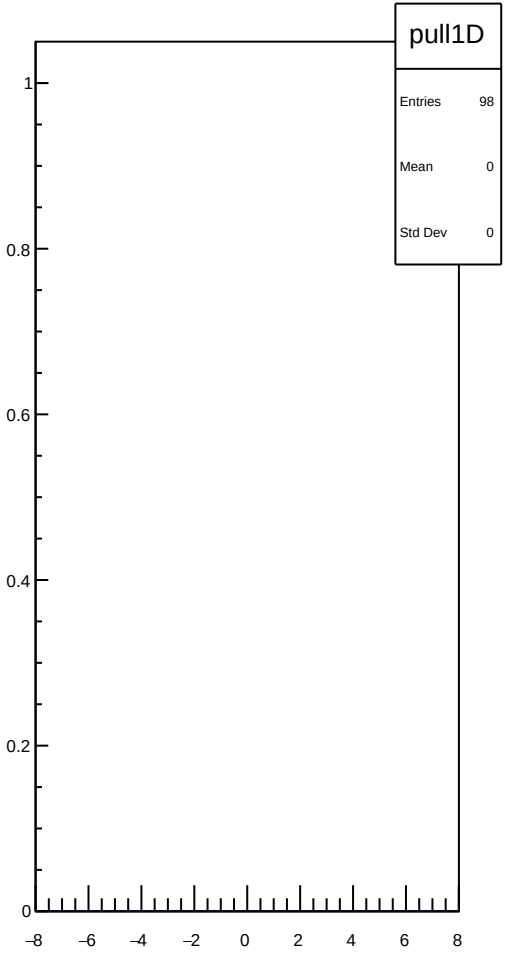

yield_bpm16Y_rms vs run
χ² / ndf 4.258e+04 / 97
p0 0.005758 ± 4.177e−06
0.014
0.012
0.01
0.008
0.006
0.004

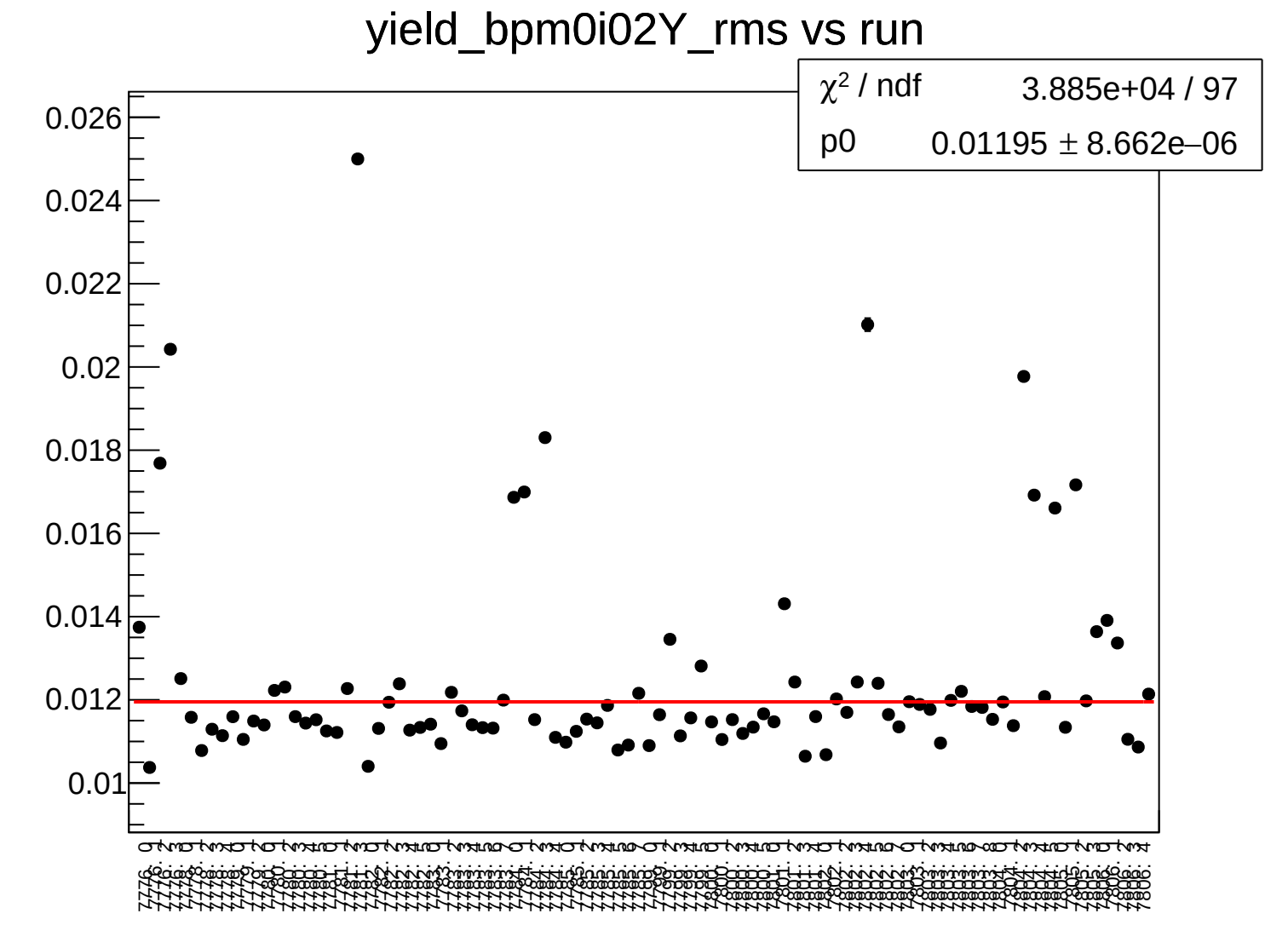

yield_bpm0i02X_mean vs run
χ² / ndf 2.335e+06 / 97
p0 −0.4706 ± 6.722e−06
−0.45
−0.46
−0.47
−0.48
−0.49
−0.5
−0.51
pull
Entries 98
Mean −422.1
Std Dev 0
300
200
100
0
−100
−200
−300
−400

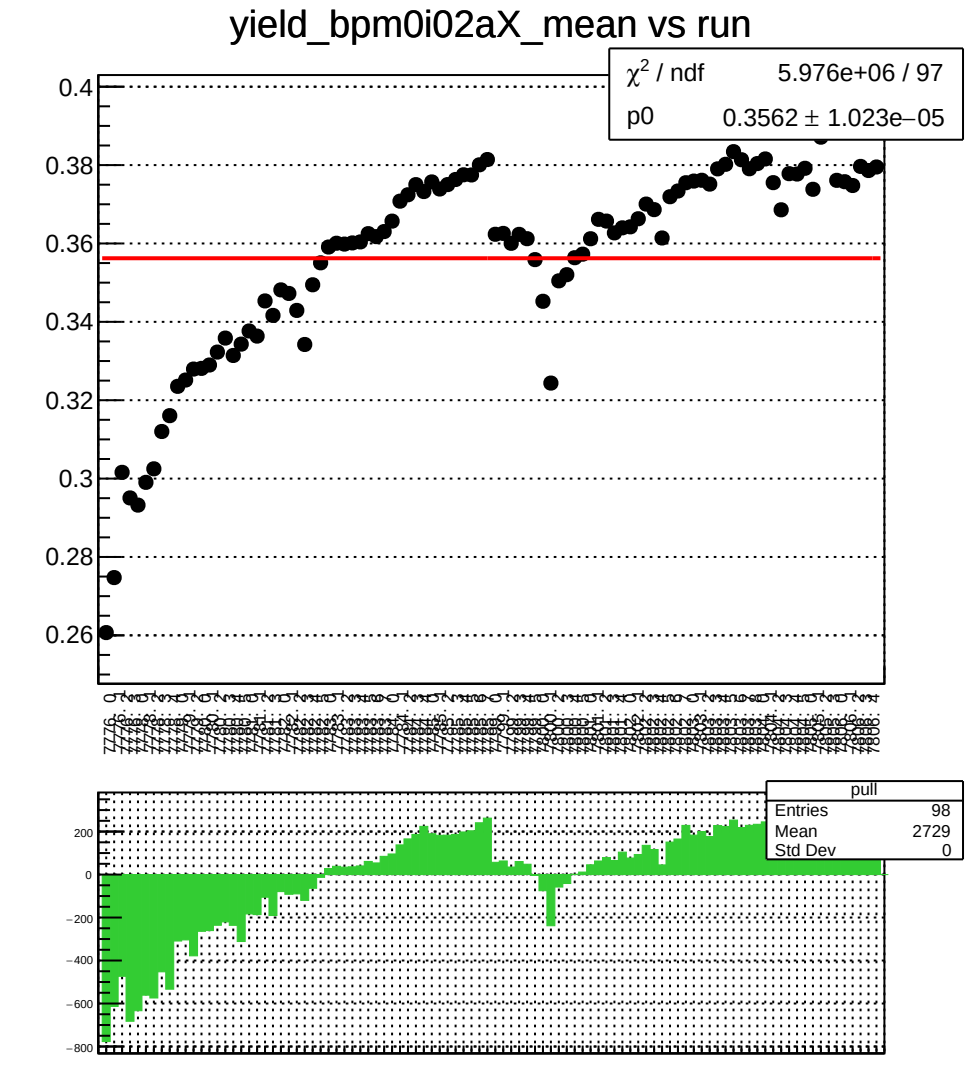

pull1D
Entries 98
Mean 0.3345
Std Dev 2.87
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

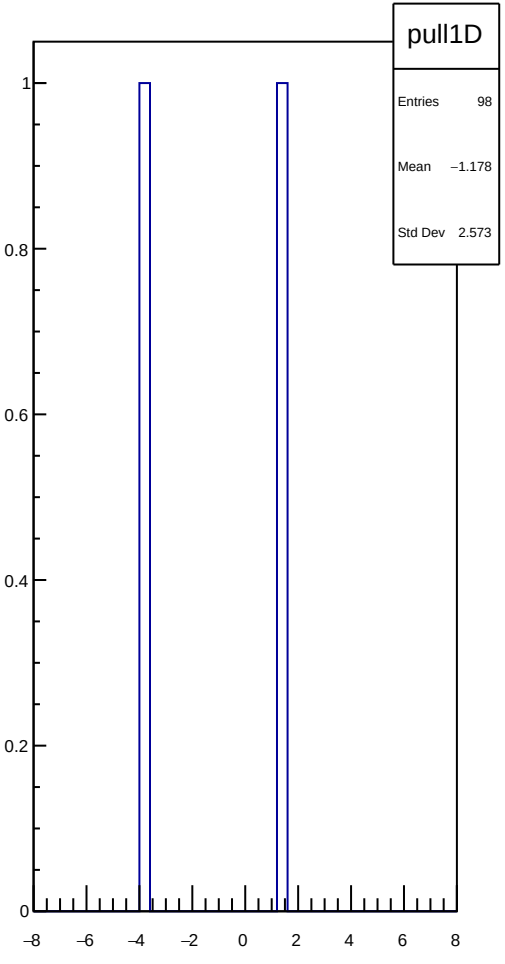

yield_bpm0i02X_rms vs run
χ² / ndf 1.03e+04 / 97
p0 0.006607 ± 4.753e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

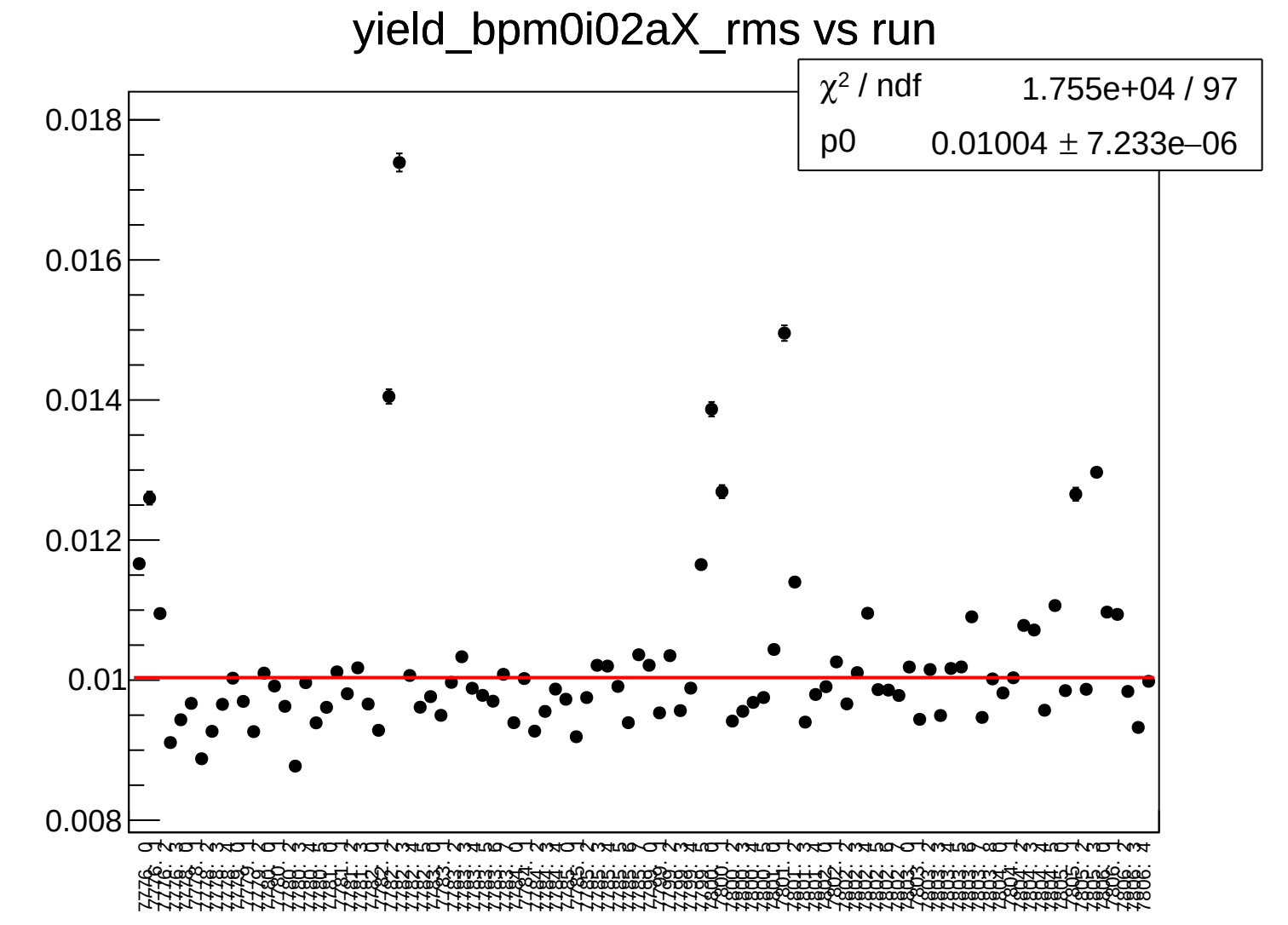

yield_bpm0i02Y_mean vs run
χ² / ndf 2.76e+06 / 97
p0 −3.162 ± 1.225e−05
−3.12
−3.14
−3.16
−3.18
−3.2
pull
Entries 98
Mean −882.1
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

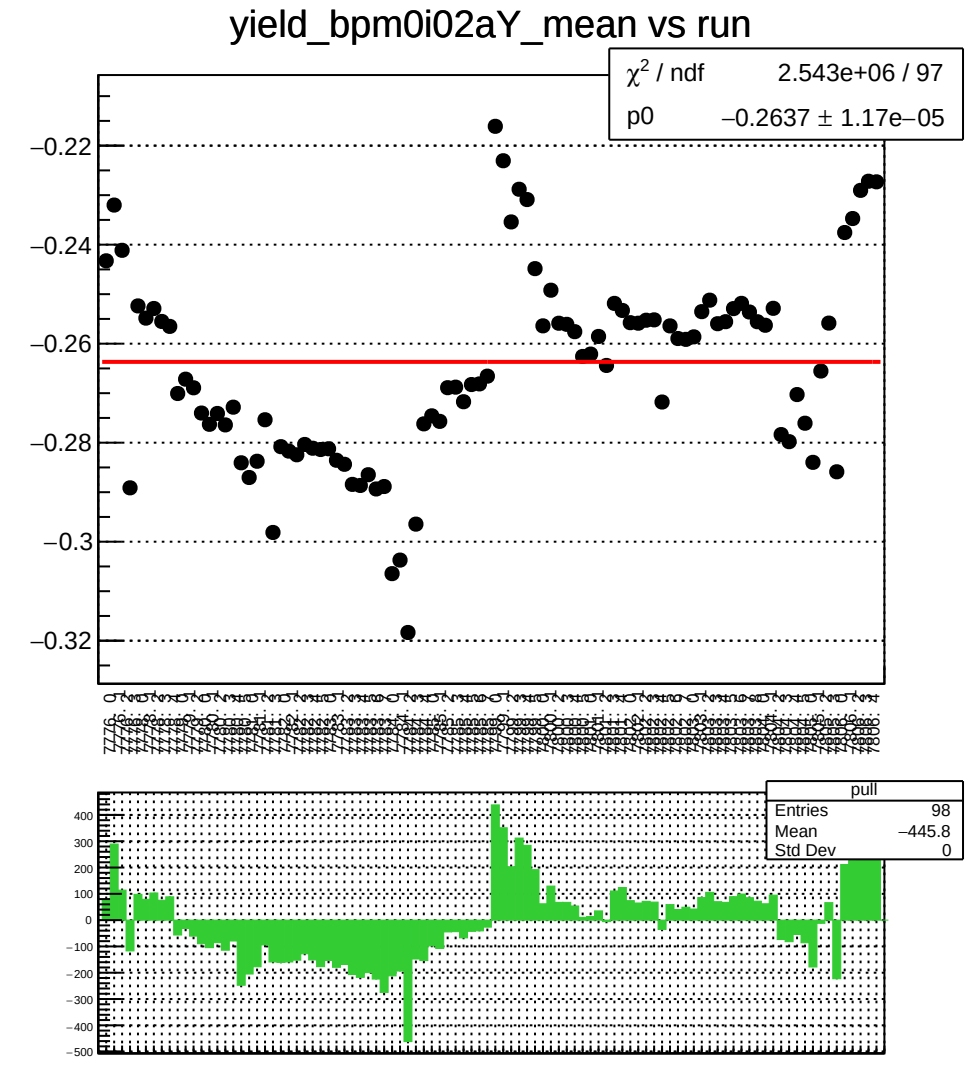

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

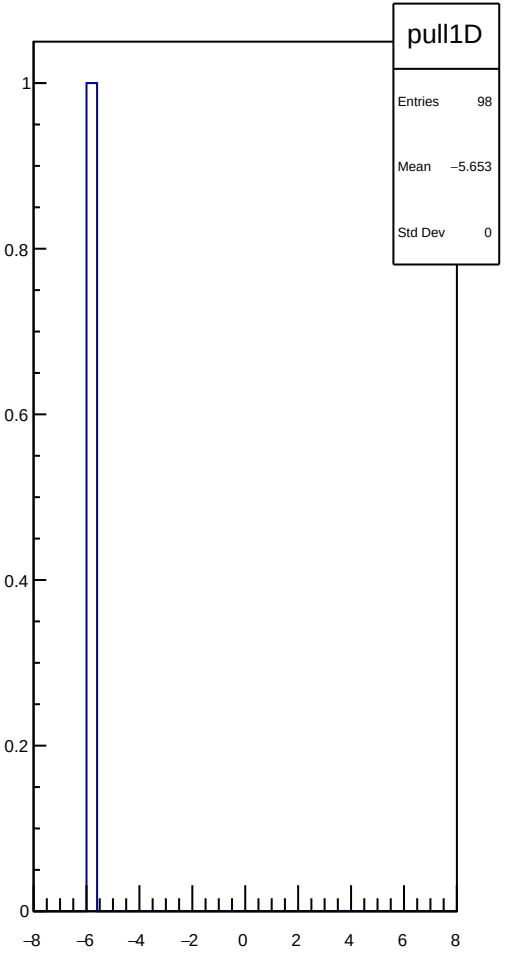

yield_bpm0i02Y_rms vs run
χ² / ndf 3.885e+04 / 97
p0 0.01195 ± 8.662e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

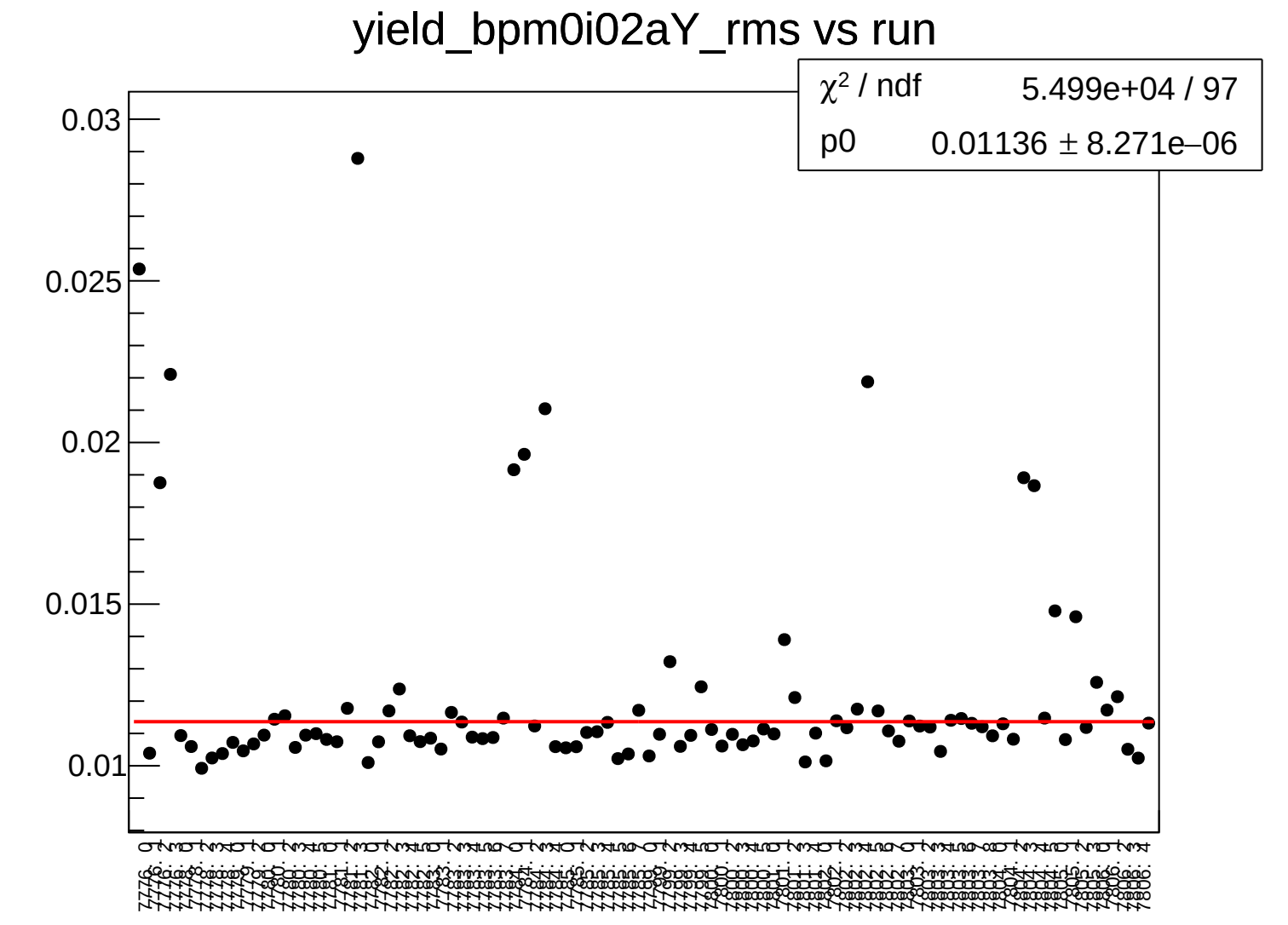

yield_bpm0i02aX_mean vs run
χ² / ndf 5.976e+06 / 97
p0 0.3562 ± 1.023e−05
0.4
0.38
0.36
0.34
0.32
0.3
0.28
0.26
pull
Entries 98
Mean 2729
Std Dev 0
200
0
−200
−400
−600
−800

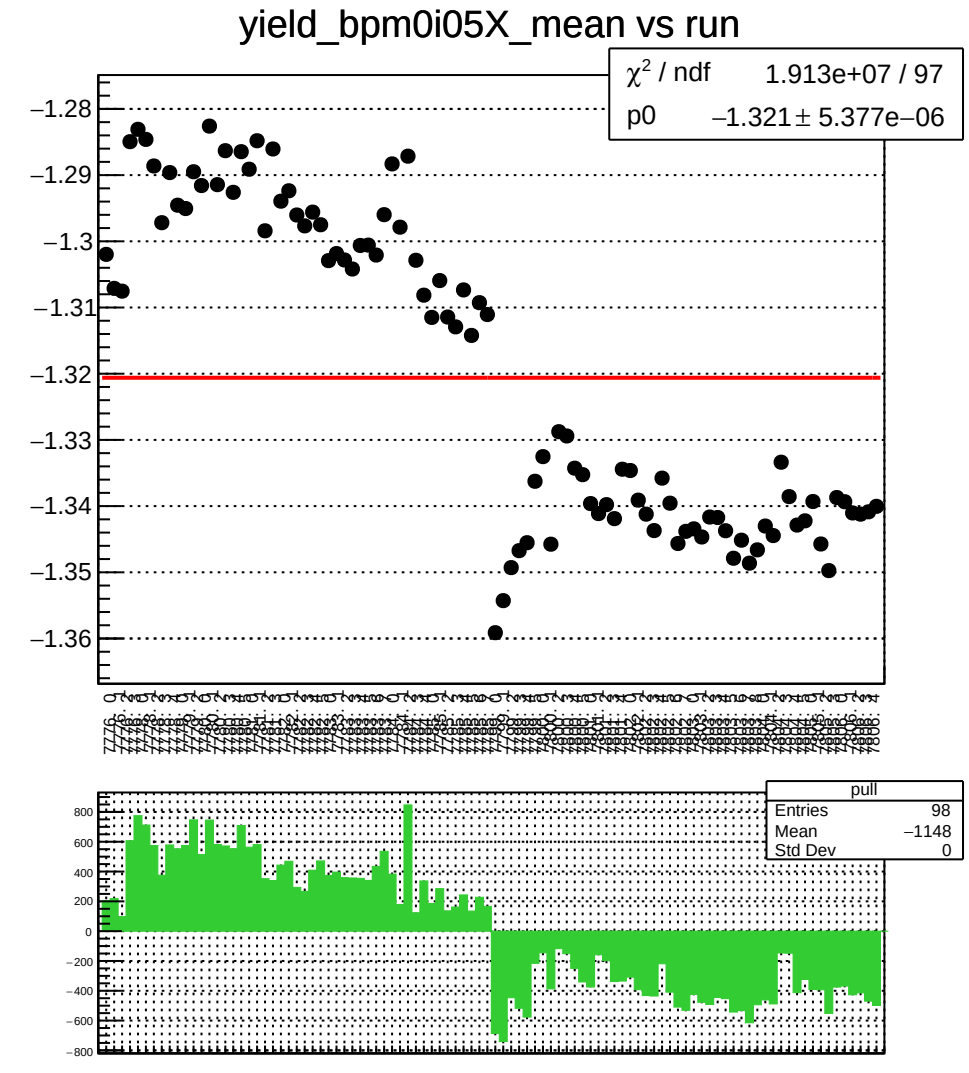

pull1D
Entries 98
Mean −1.178
Std Dev 2.573
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

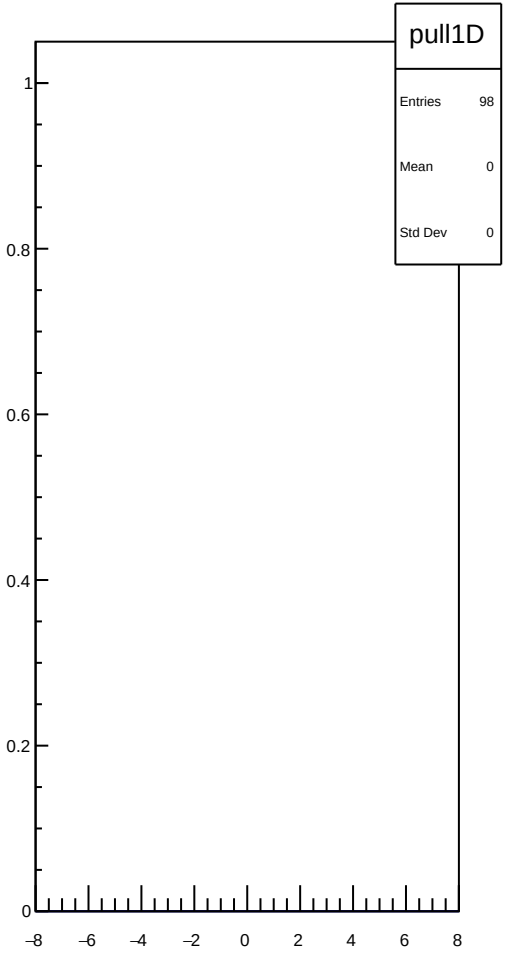

yield_bpm0i02aX_rms vs run
χ² / ndf 1.755e+04 / 97
p0 0.01004 ± 7.233e–06
0.018
0.016
0.014
0.012
0.01
0.008

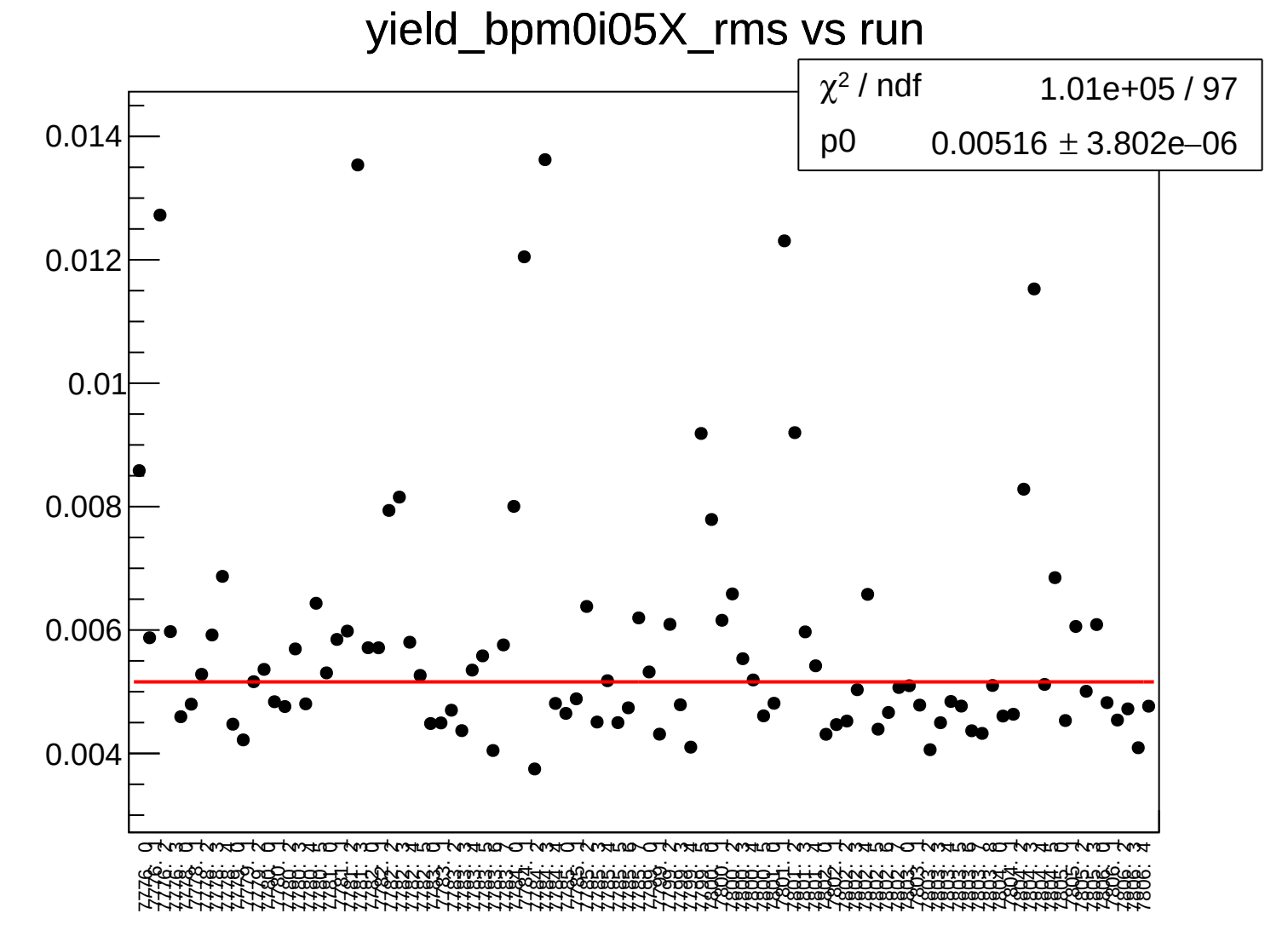

yield_bpm0i02aY_mean vs run
χ² / ndf 2.543e+06 / 97
p0 −0.2637 ± 1.17e−05
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
pull
Entries 98
Mean −445.8
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

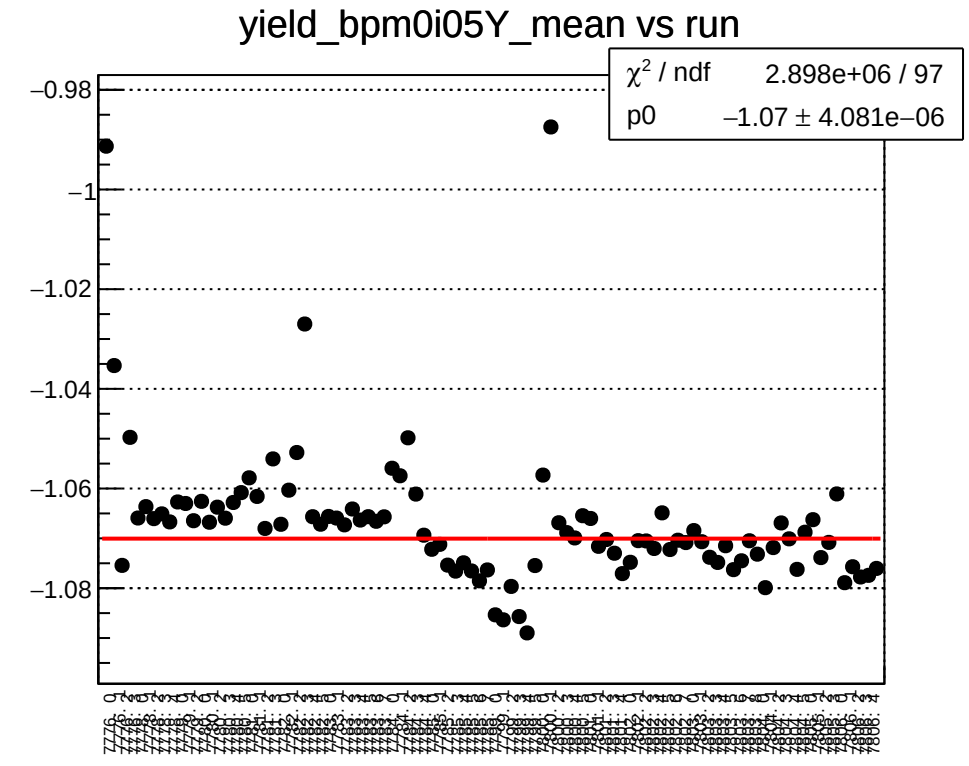

pull1D
Entries 98
Mean −5.653
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

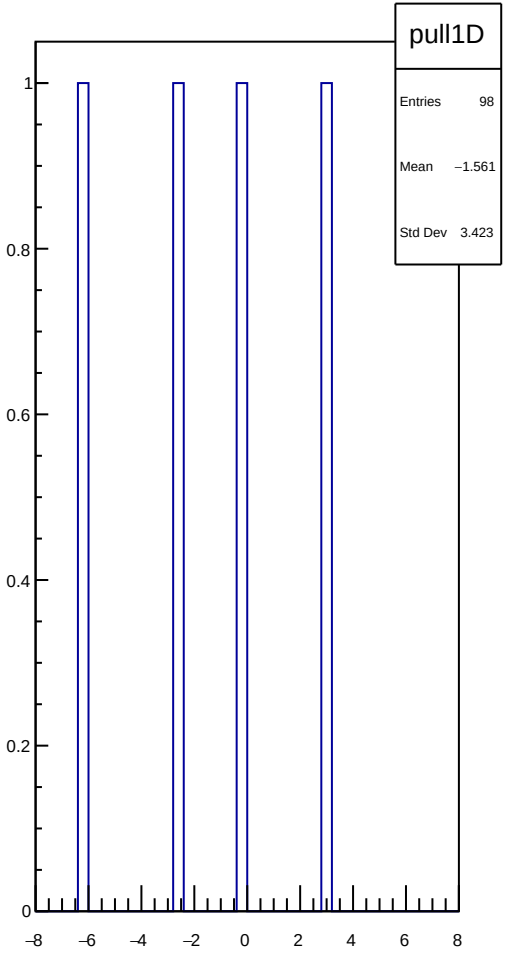

yield_bpm0i02aY_rms vs run
χ² / ndf 5.499e+04 / 97
p0 0.01136 ± 8.271e–06
0.03
0.025
0.02
0.015
0.01

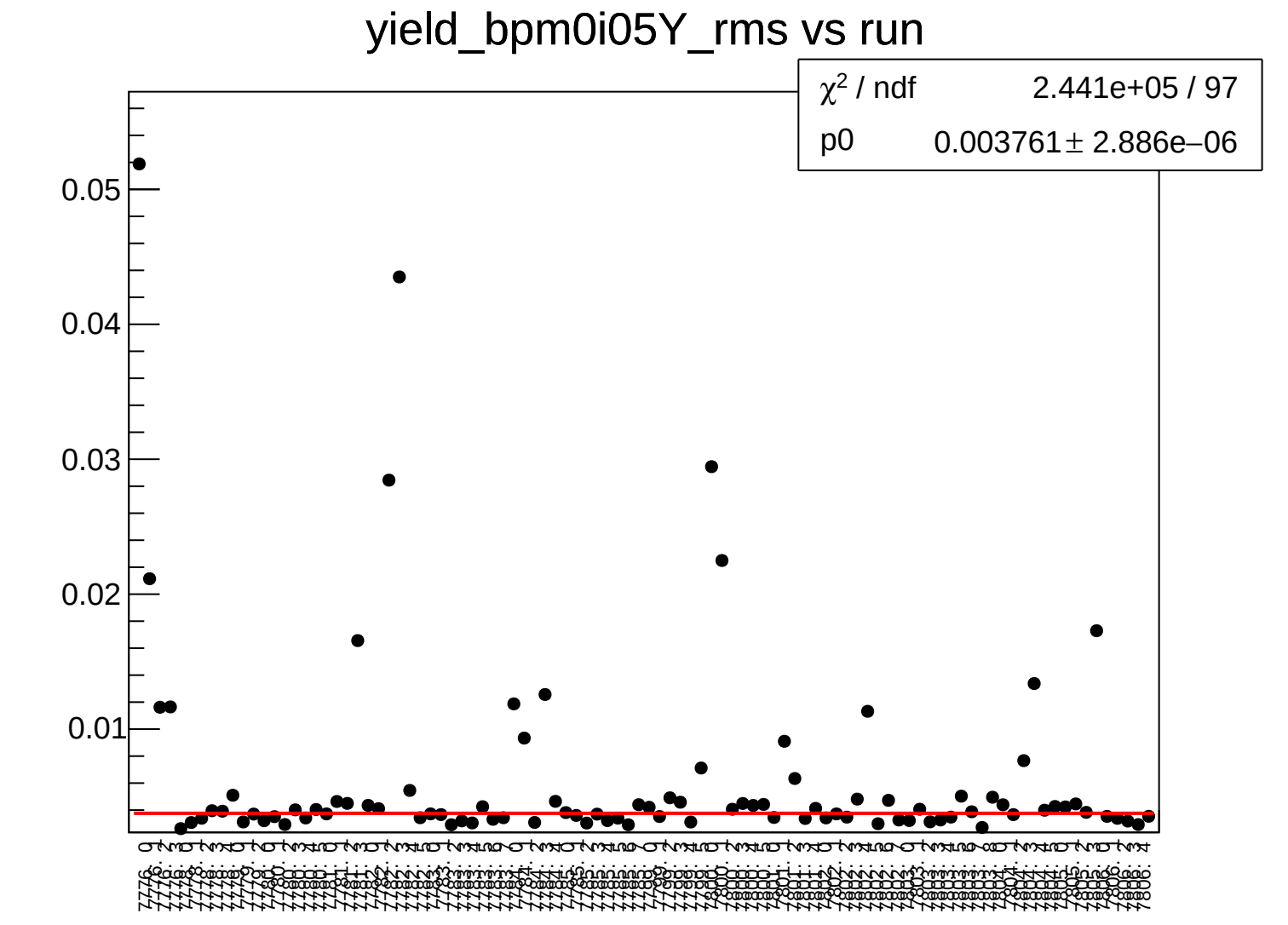

yield_bpm0i05X_mean vs run
χ² / ndf 1.913e+07 / 97
p0 −1.321 ± 5.377e−06
−1.28
−1.29
−1.3
−1.31
−1.32
−1.33
−1.34
−1.35
−1.36
pull
Entries 98
Mean −1148
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

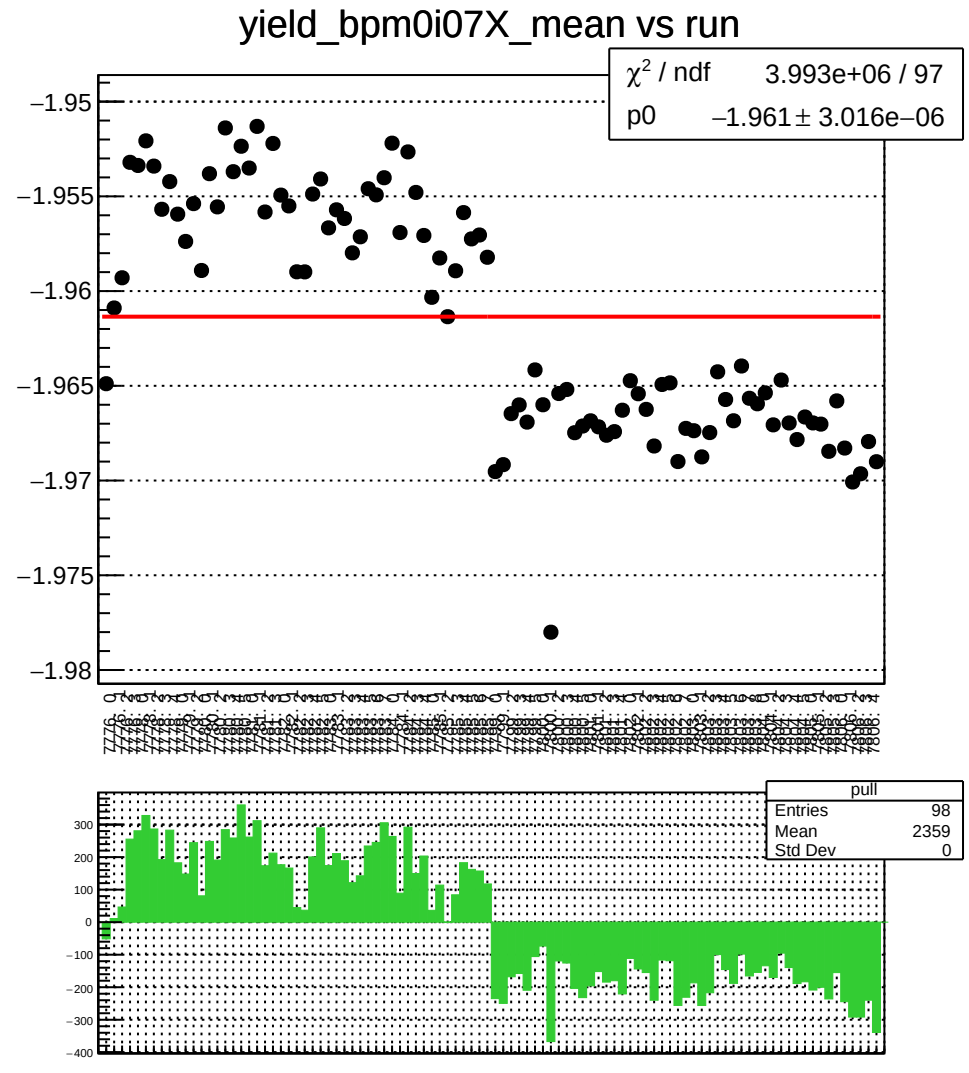

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

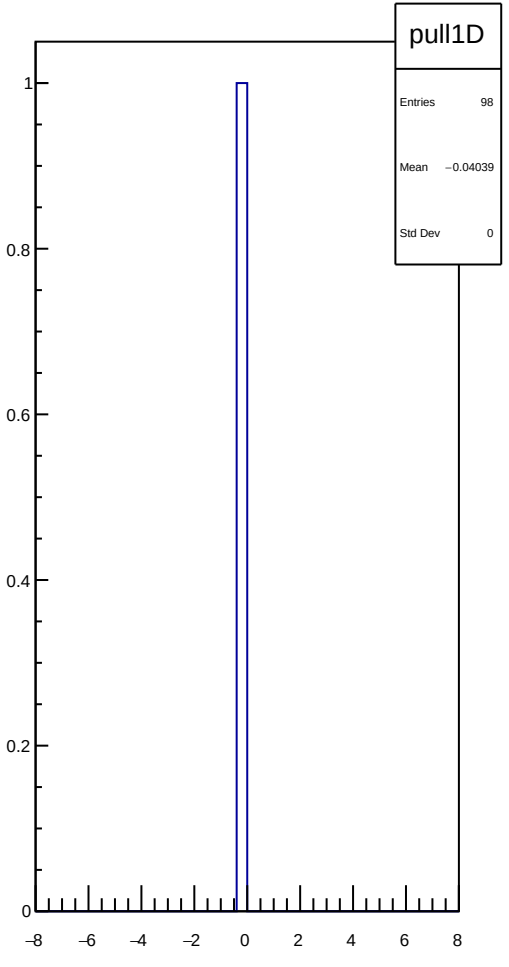

yield_bpm0i05X_rms vs run
χ² / ndf 1.01e+05 / 97
p0 0.00516 ± 3.802e–06
0.014
0.012
0.01
0.008
0.006
0.004

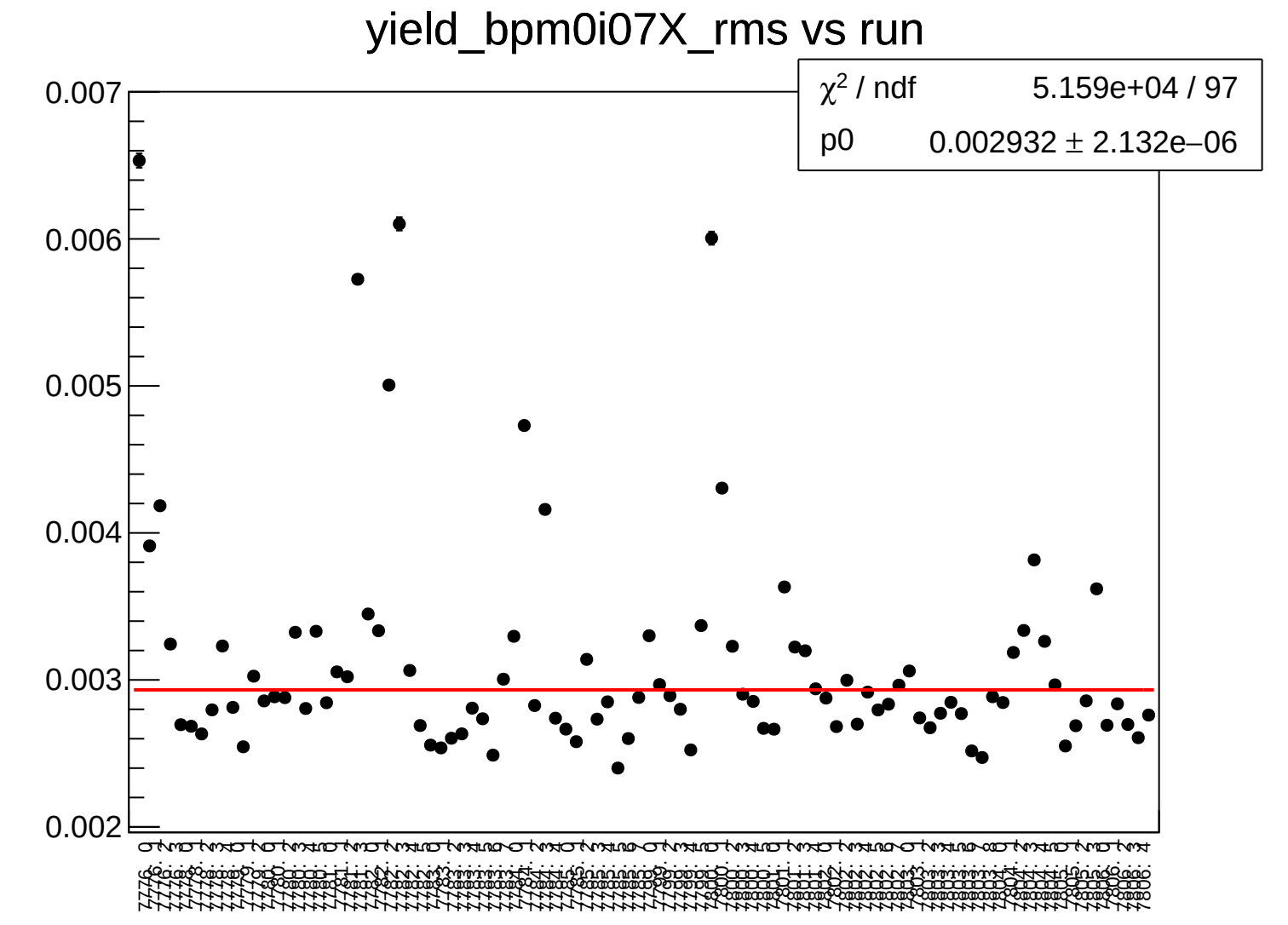

yield_bpm0i05Y_mean vs run
χ² / ndf 2.898e+06 / 97
p0 −1.07 ± 4.081e−06
−0.98
−1
−1.02
−1.04
−1.06
−1.08
pull
Entries 98
Mean −206.9
Std Dev 0
600
400
200
0
−200
−400
−600

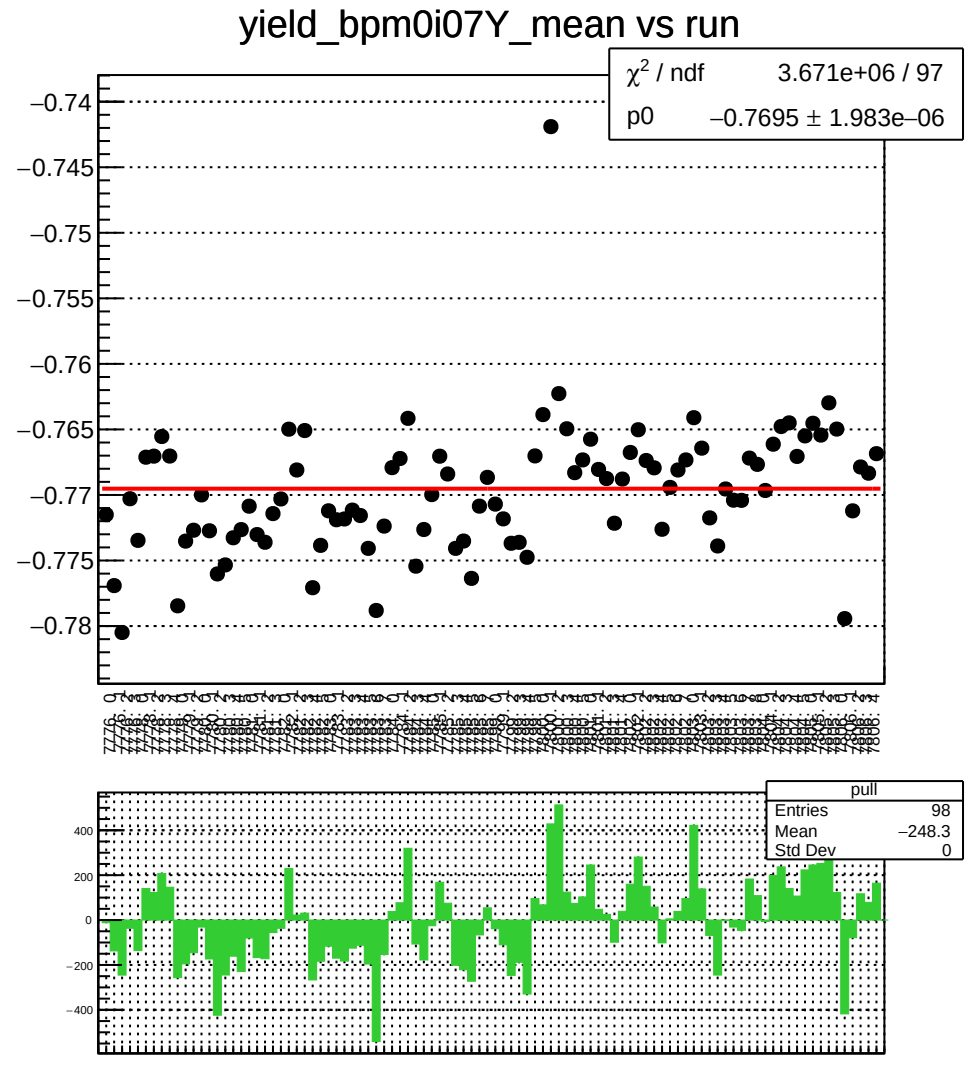

pull1D
Entries 98
Mean −1.561
Std Dev 3.423
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

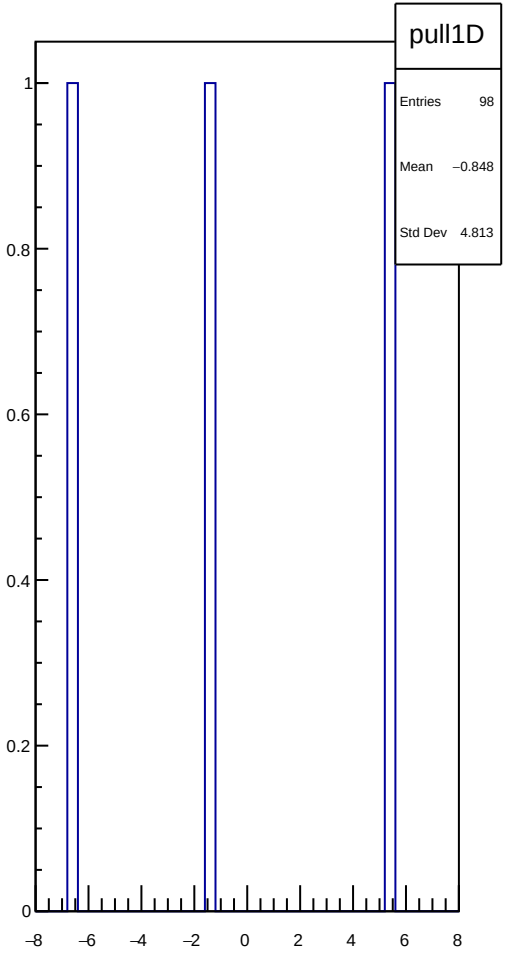

yield_bpm0i05Y_rms vs run
χ² / ndf 2.441e+05 / 97
p0 0.003761 ± 2.886e−06
0.05
0.04
0.03
0.02
0.01

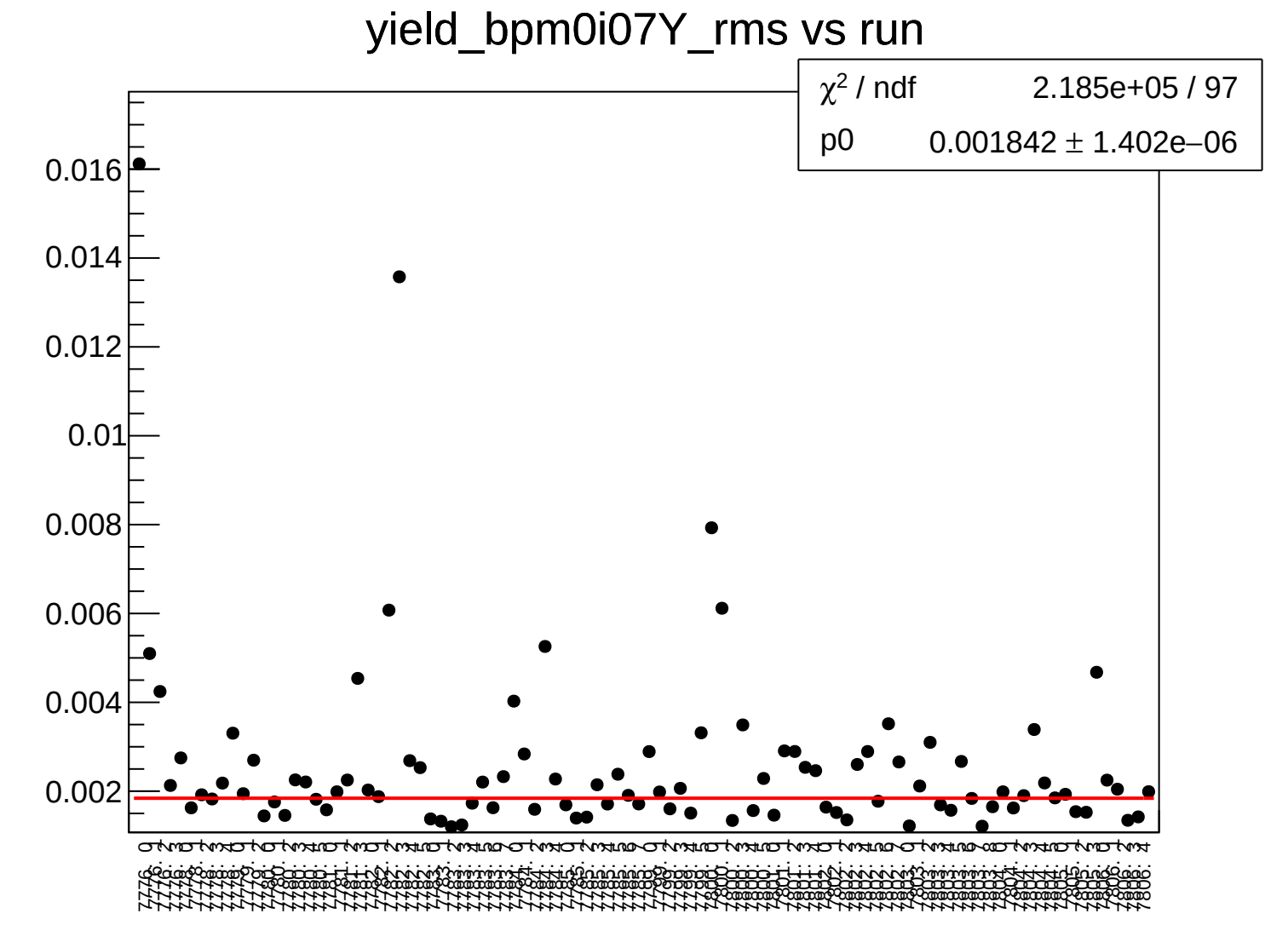

yield_bpm0i07X_mean vs run
χ² / ndf 3.993e+06 / 97
p0 −1.961 ± 3.016e−06
−1.95
−1.955
−1.96
−1.965
−1.97
−1.975
−1.98
pull
Entries 98
Mean 2359
Std Dev 0
300
200
100
0
−100
−200
−300
−400

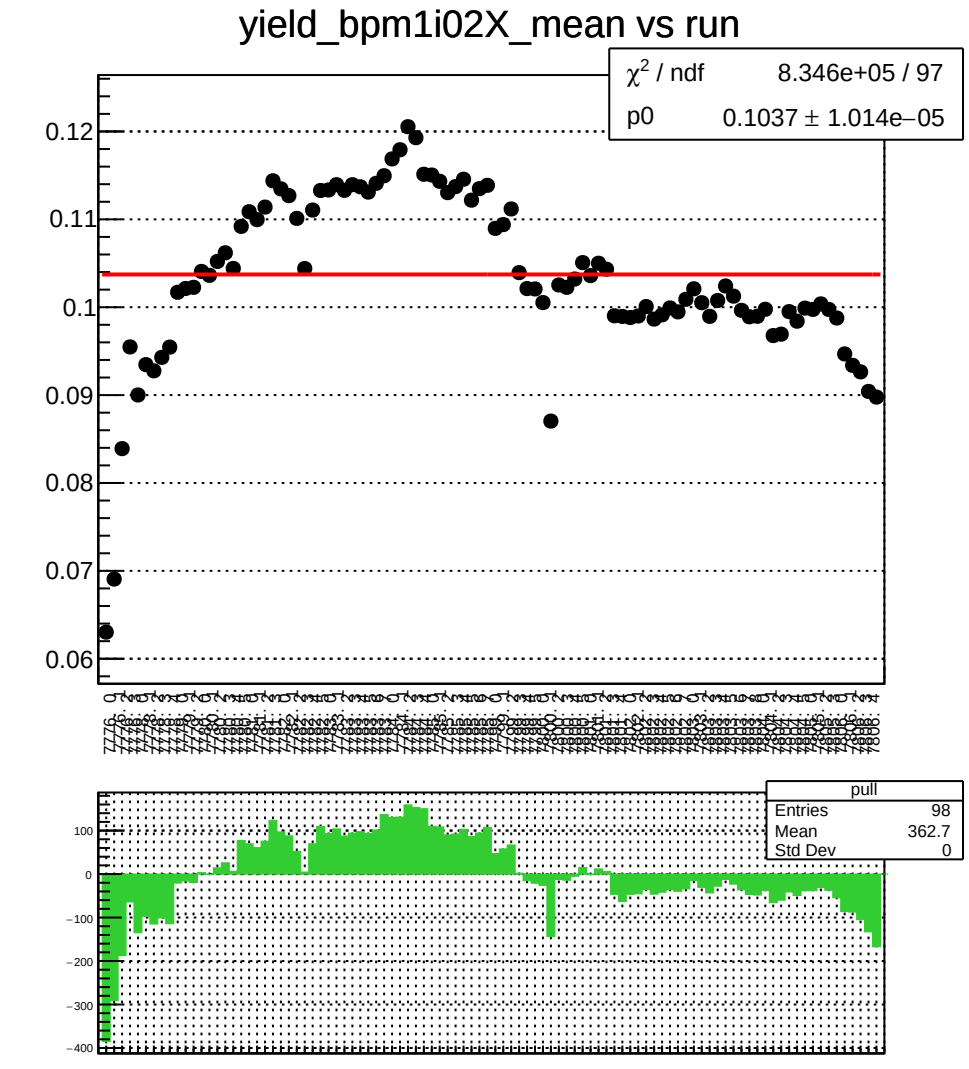

pull1D
Entries 98
Mean −0.04039
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

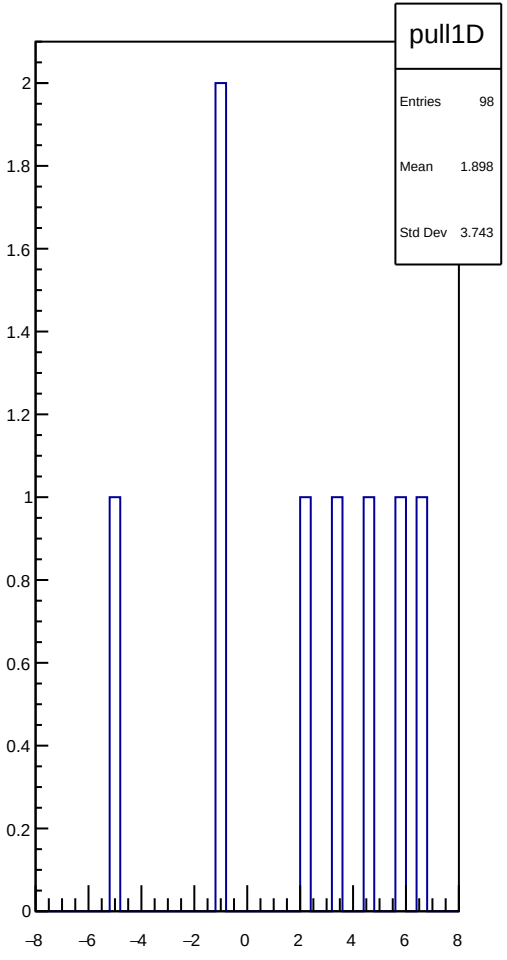

yield_bpm0i07X_rms vs run
χ^2 / ndf 5.159e+04 / 97
p0 0.002932 ± 2.132e−06
0.007
0.006
0.005
0.004
0.003
0.002

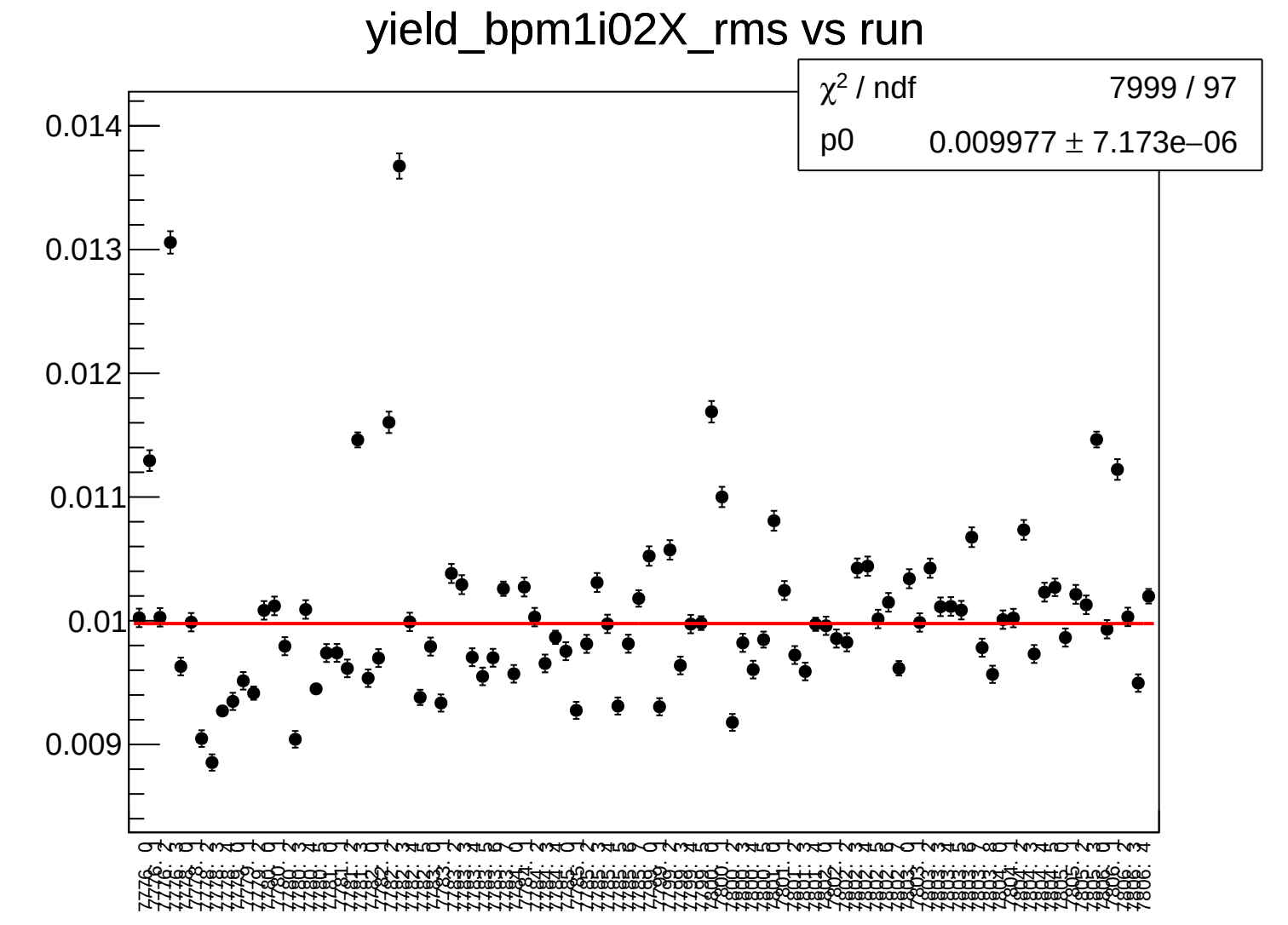

yield_bpm0i07Y_mean vs run
χ² / ndf 3.671e+06 / 97
p0 −0.7695 ± 1.983e−06
−0.74
−0.745
−0.75
−0.755
−0.76
−0.765
−0.77
−0.775
−0.78
pull
Entries 98
Mean −248.3
Std Dev 0
400
200
0
−200
−400

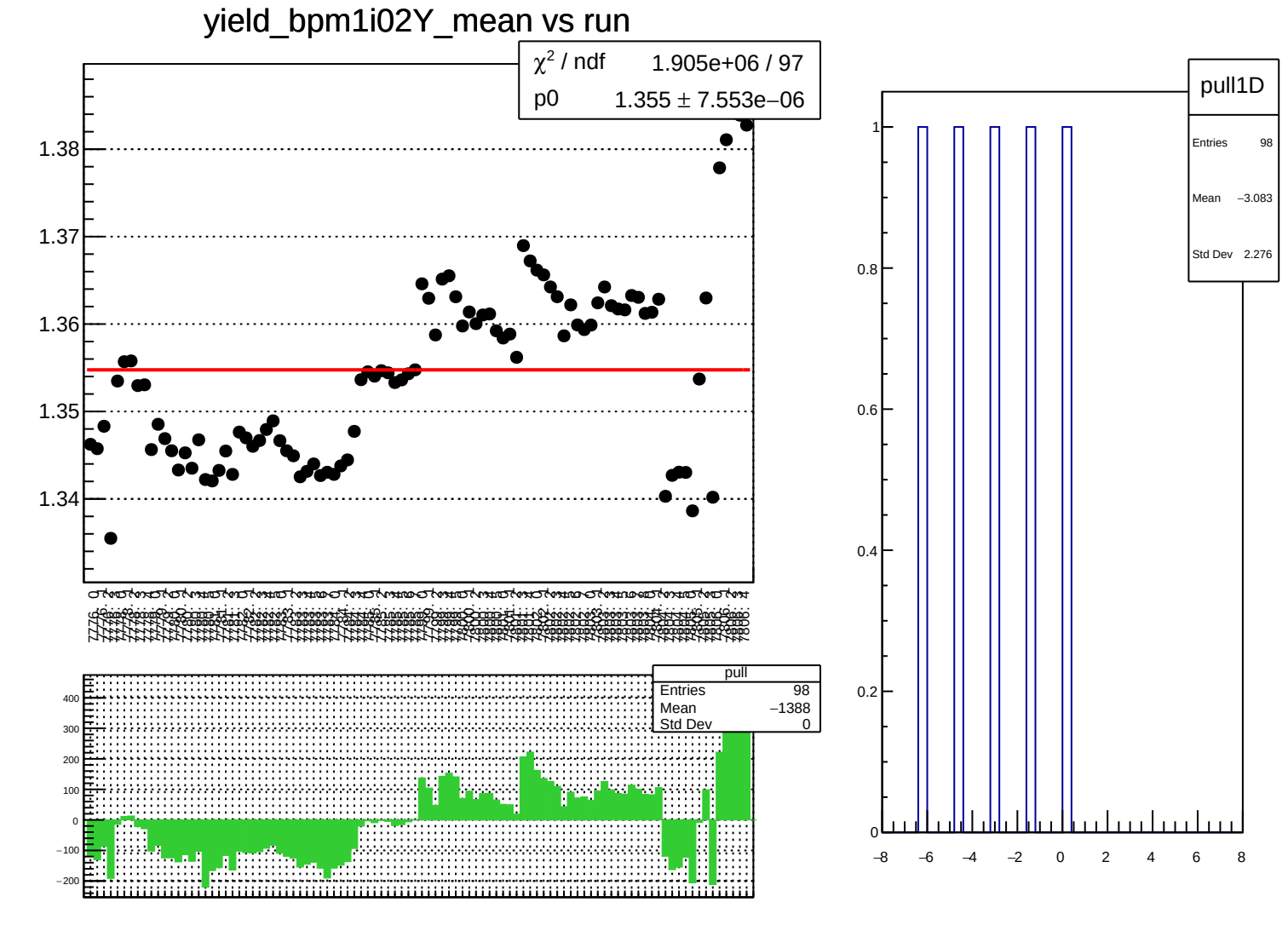

pull1D
Entries 98
Mean −0.848
Std Dev 4.813
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

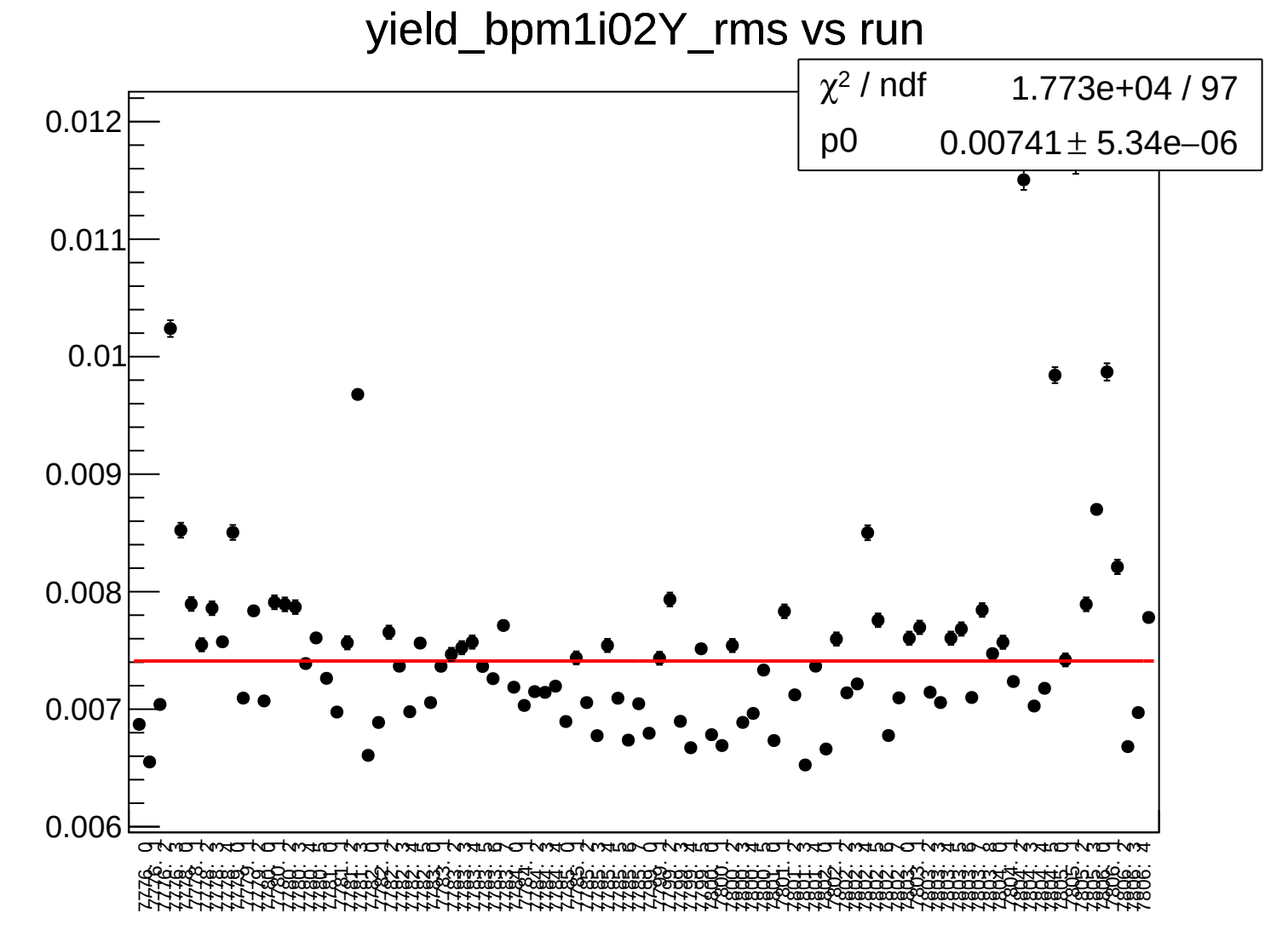

yield_bpm0i07Y_rms vs run
χ² / ndf 2.185e+05 / 97
p0 0.001842 ± 1.402e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

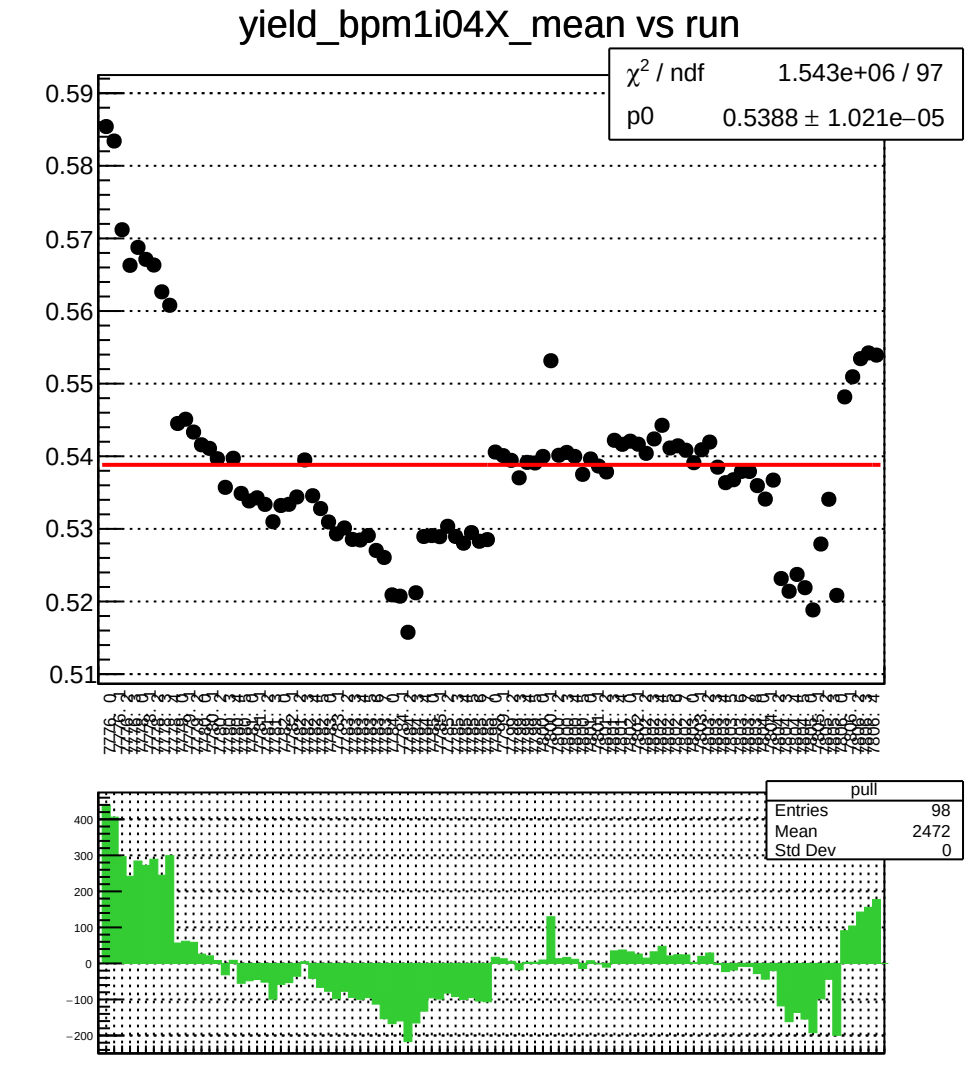

yield_bpm1i02X_mean vs run
χ² / ndf 8.346e+05 / 97
p0 0.1037 ± 1.014e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
pull
Entries 98
Mean 362.7
Std Dev 0
100
0
−100
−200
−300
−400

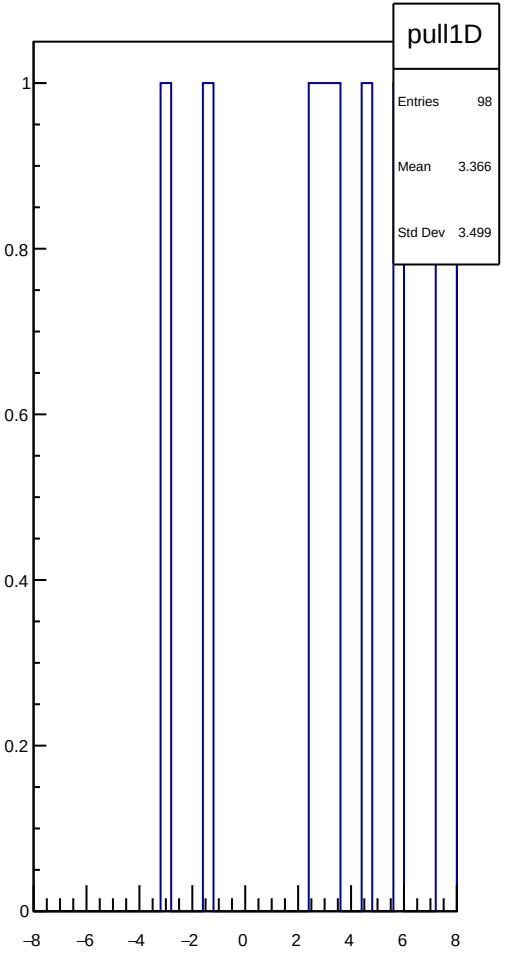

pull1D
Entries 98
Mean 1.898
Std Dev 3.743
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

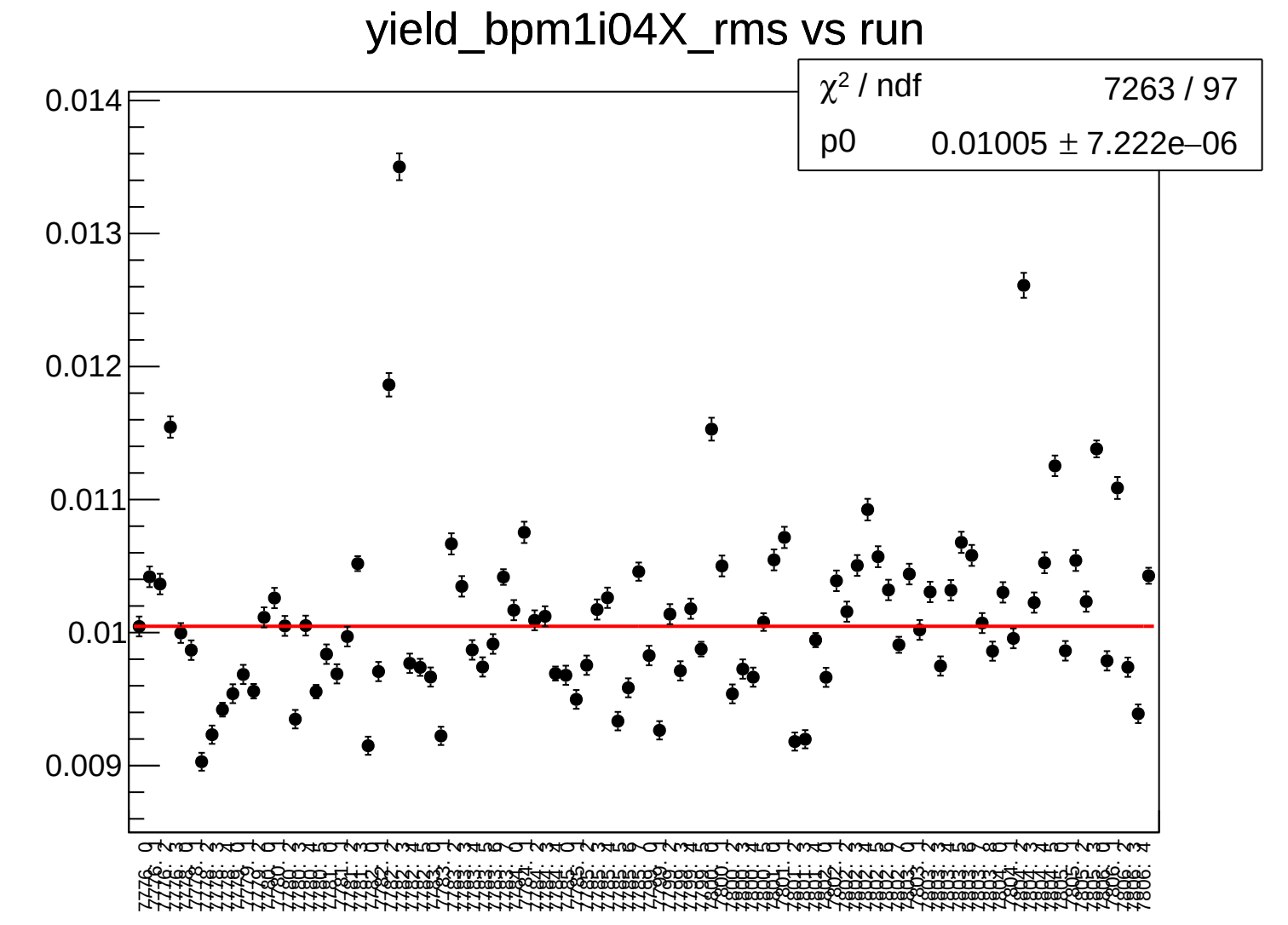

yield_bpm1i02X_rms vs run
χ² / ndf 7999 / 97
p0 0.009977 ± 7.173e−06
0.014
0.013
0.012
0.011
0.01
0.009

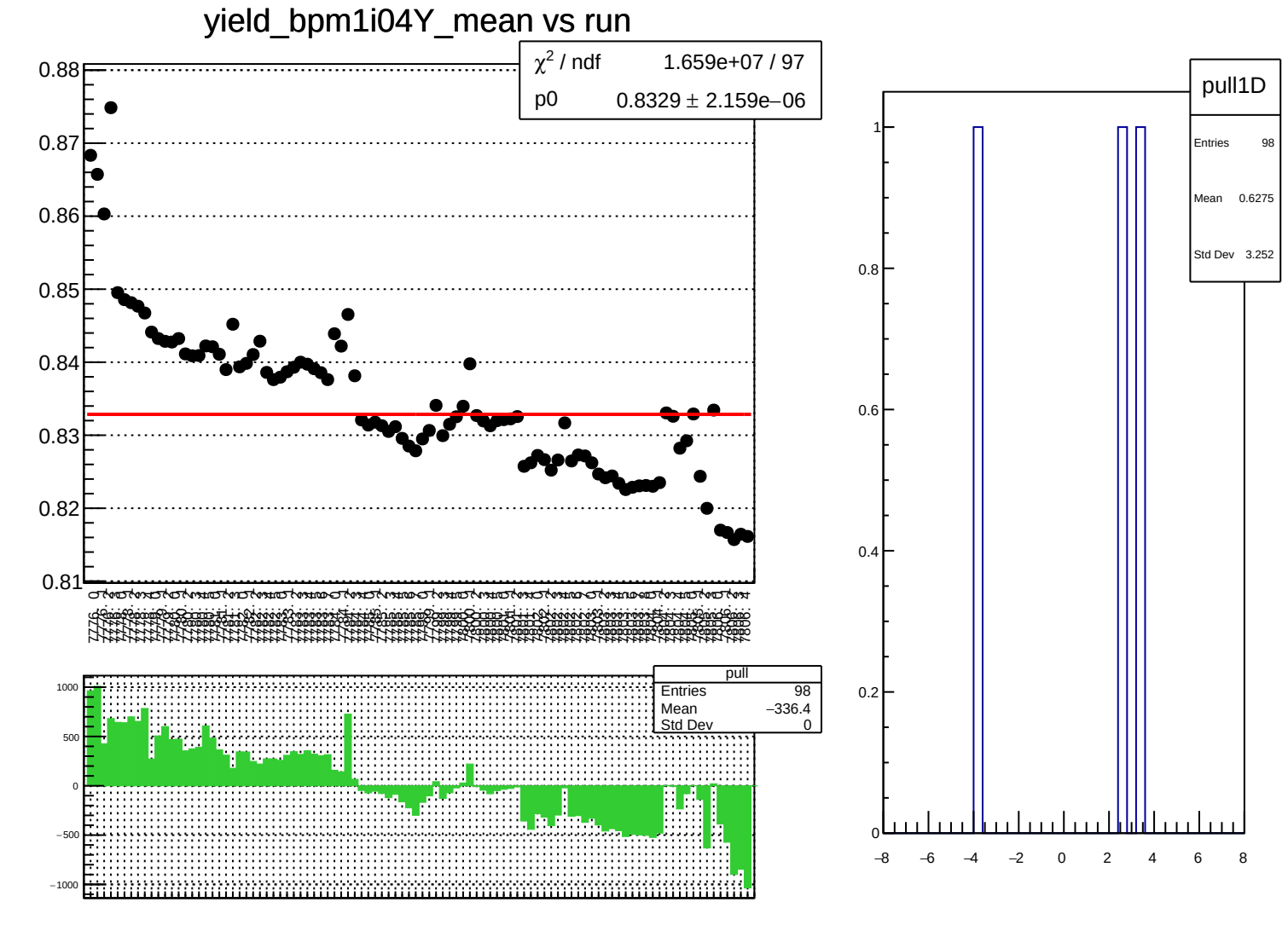

yield_bpm1i02Y_mean vs run
χ² / ndf 1.905e+06 / 97
p0 1.355 ± 7.553e−06
1.38
1.37
1.36
1.35
1.34
pull
Entries 98
Mean −1388
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 98
Mean −3.083
Std Dev 2.276
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

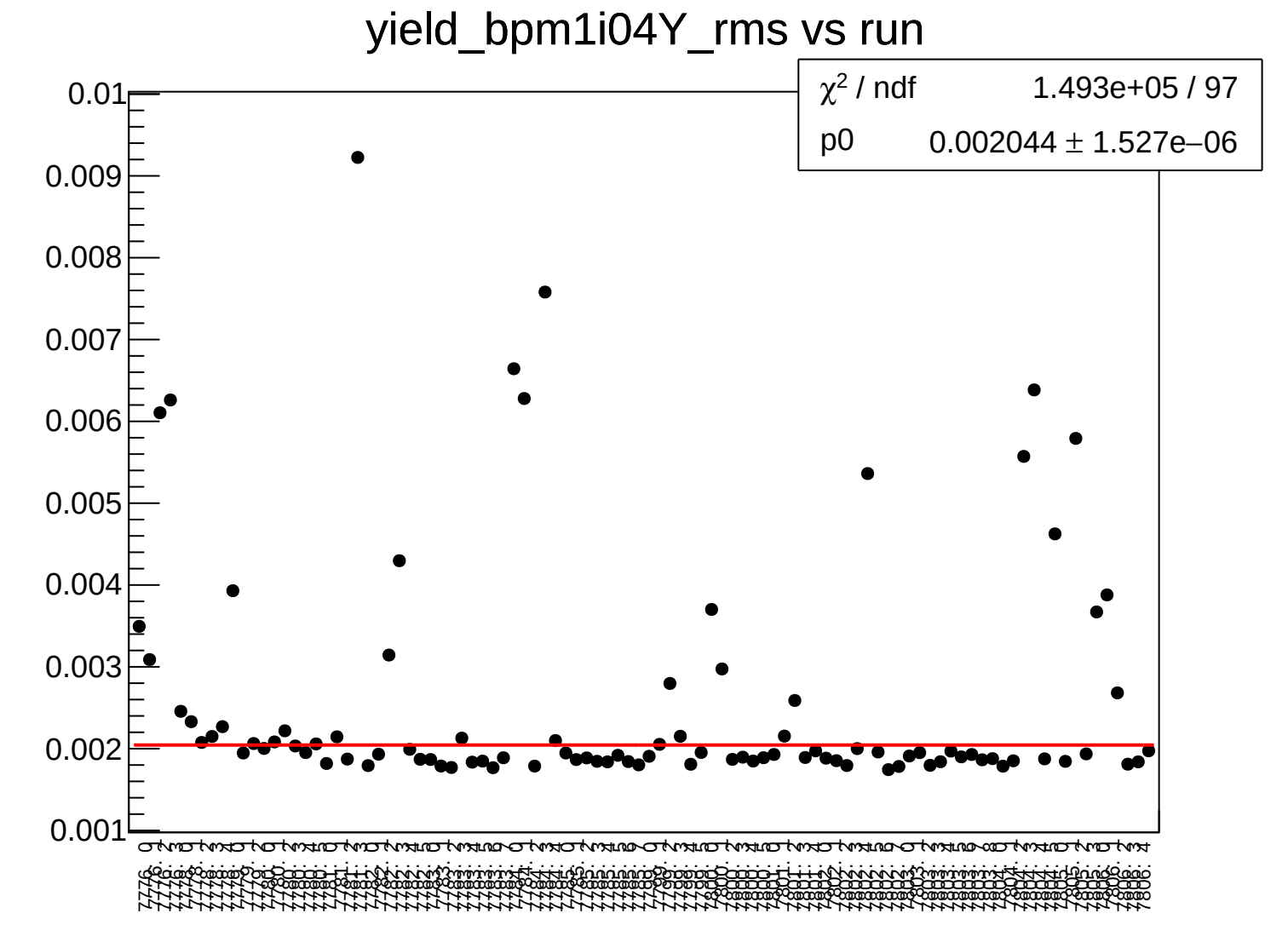

yield_bpm1i02Y_rms vs run
χ² / ndf 1.773e+04 / 97
p0 0.00741 ± 5.34e–06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

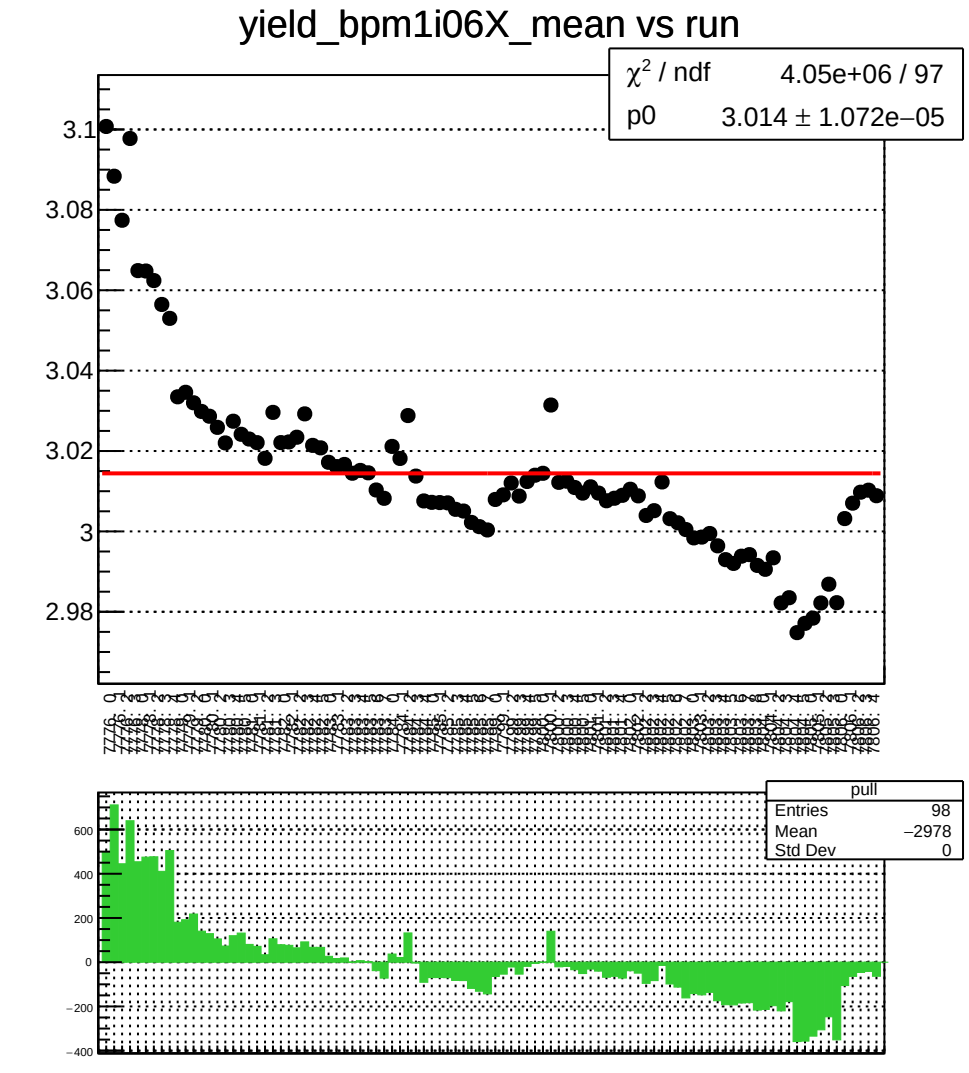

yield_bpm1i04X_mean vs run
χ² / ndf 1.543e+06 / 97
p0 0.5388 ± 1.021e−05
0.59
0.58
0.57
0.56
0.55
0.54
0.53
0.52
0.51
pull
Entries 98
Mean 2472
Std Dev 0
400
300
200
100
0
−100
−200

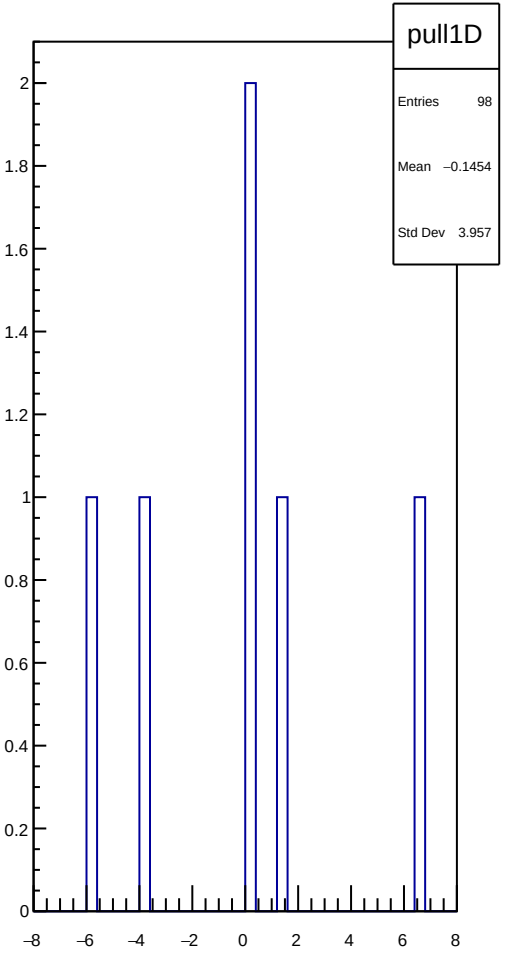

pull1D
Entries 98
Mean 3.366
Std Dev 3.499
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

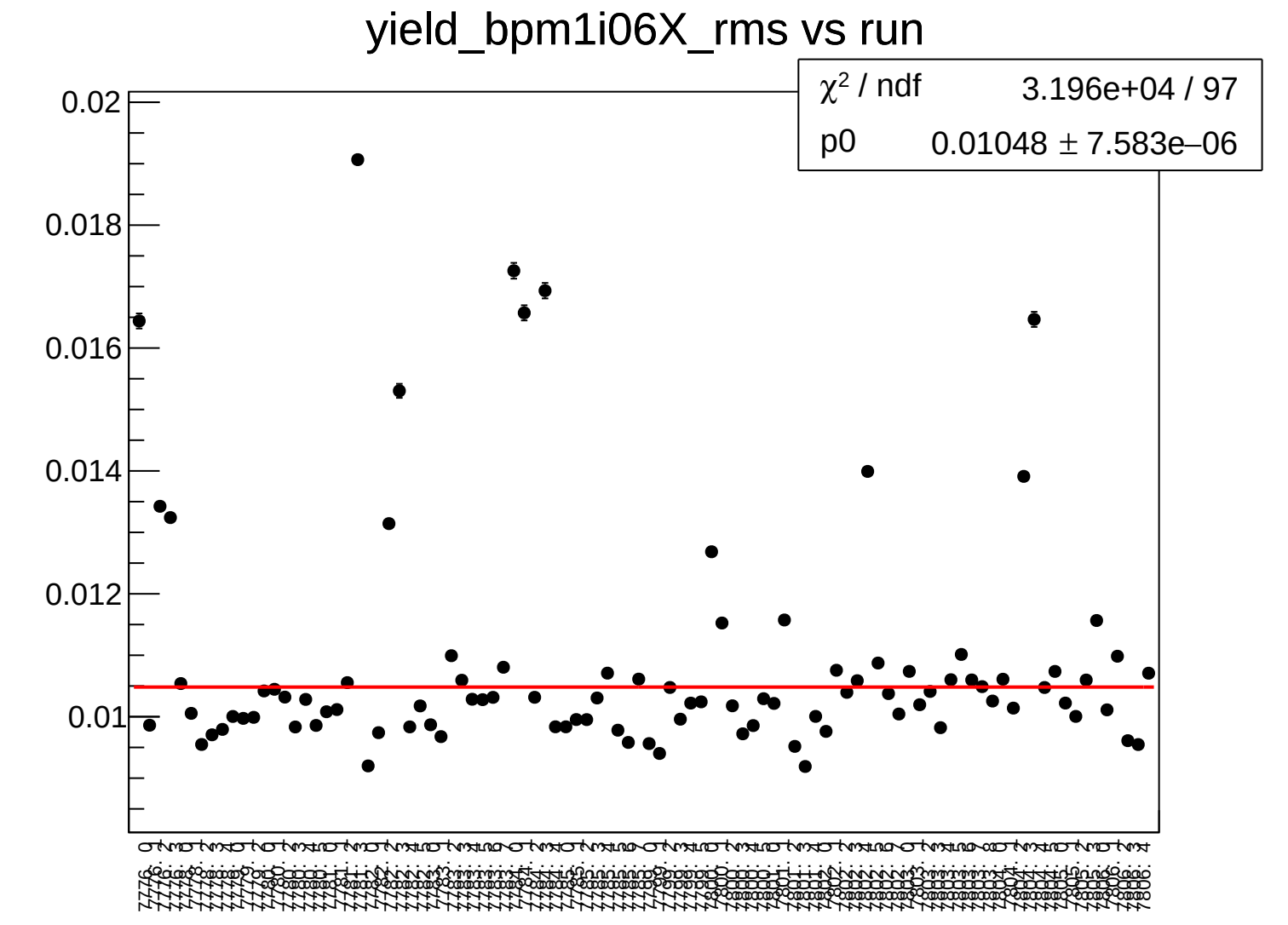

yield_bpm1i04X_rms vs run
χ² / ndf 7263 / 97
p0 0.01005 ± 7.222e–06
0.014
0.013
0.012
0.011
0.01
0.009

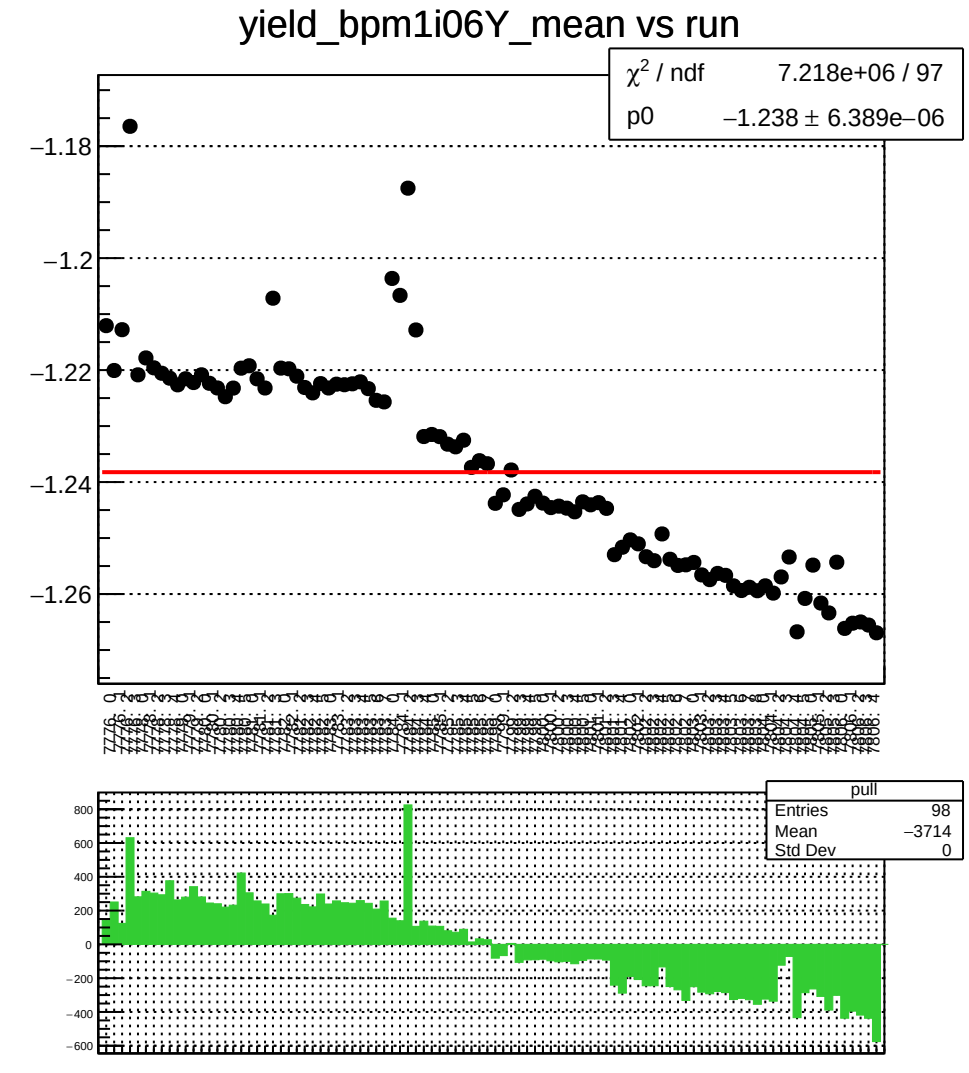

yield_bpm1i04Y_mean vs run
χ² / ndf 1.659e+07 / 97
p0 0.8329 ± 2.159e−06
0.88
0.87
0.86
0.85
0.84
0.83
0.82
0.81
pull
Entries 98
Mean −336.4
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 98
Mean 0.6275
Std Dev 3.252
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

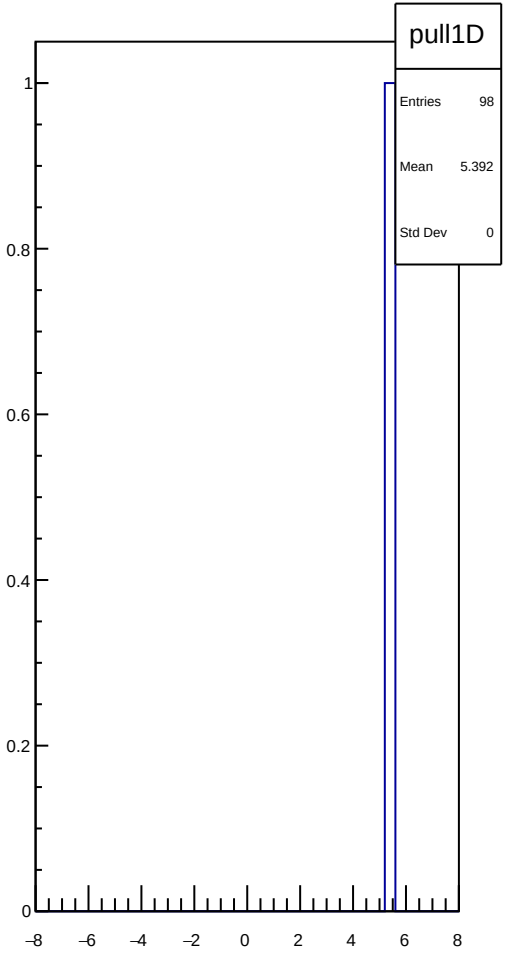

yield_bpm1i04Y_rms vs run
χ^2 / ndf 1.493e+05 / 97
p0 0.002044 ± 1.527e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

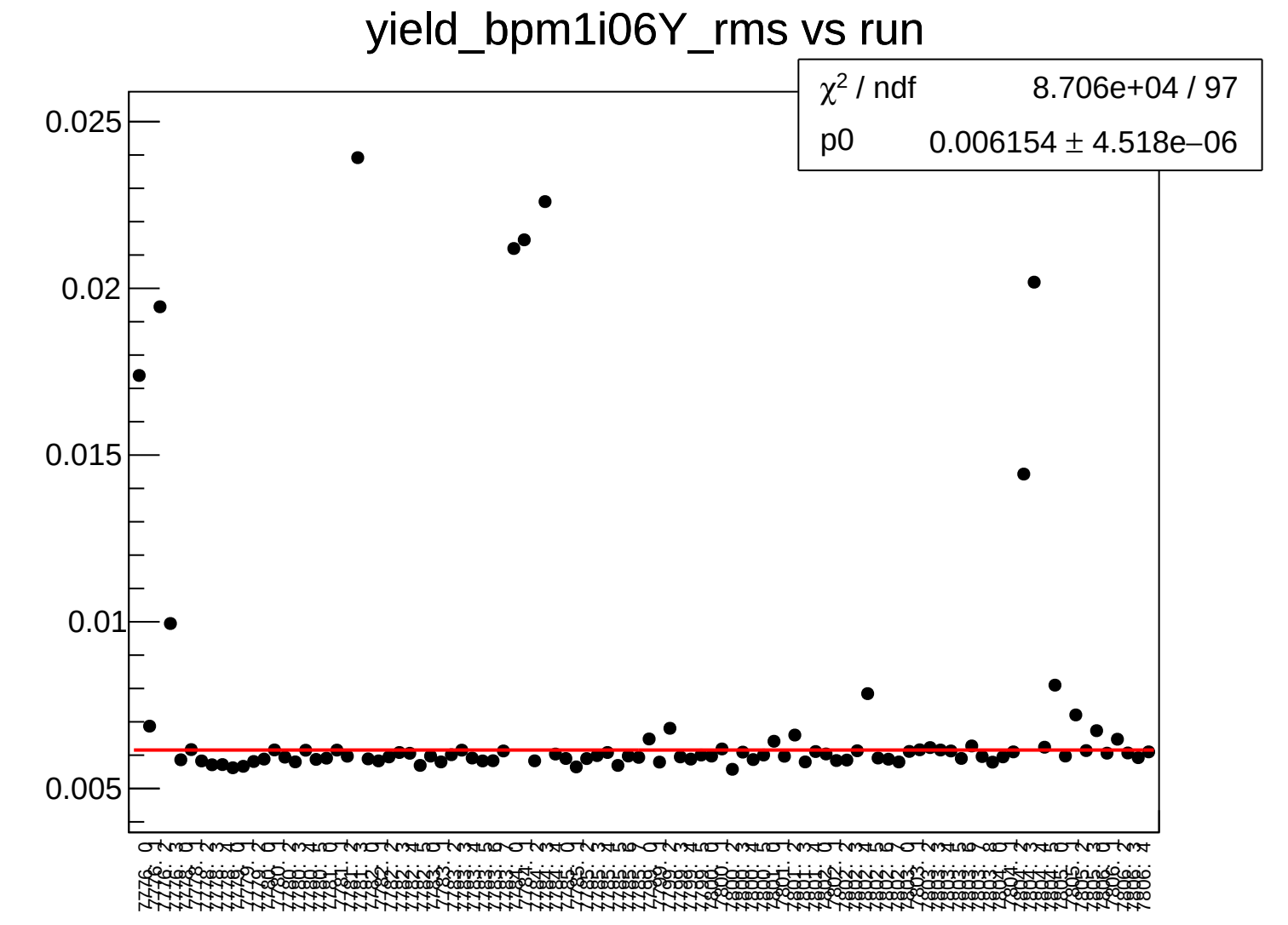

yield_bpm1i06X_mean vs run
χ² / ndf 4.05e+06 / 97
p0 3.014 ± 1.072e−05
3.1
3.08
3.06
3.04
3.02
3
2.98
pull
Entries 98
Mean −2978
Std Dev 0
600
400
200
0
−200
−400

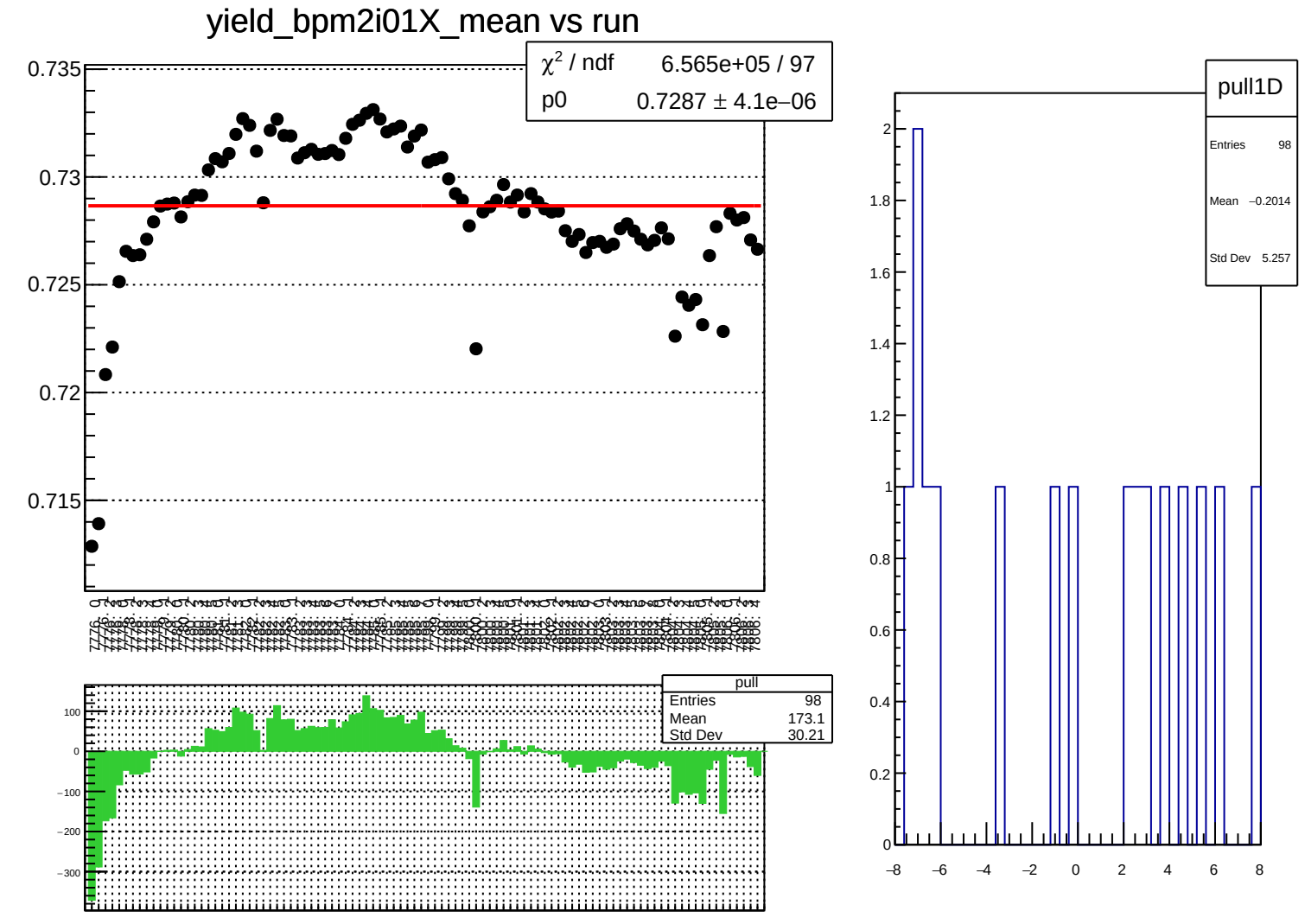

pull1D
Entries 98
Mean −0.1454
Std Dev 3.957
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

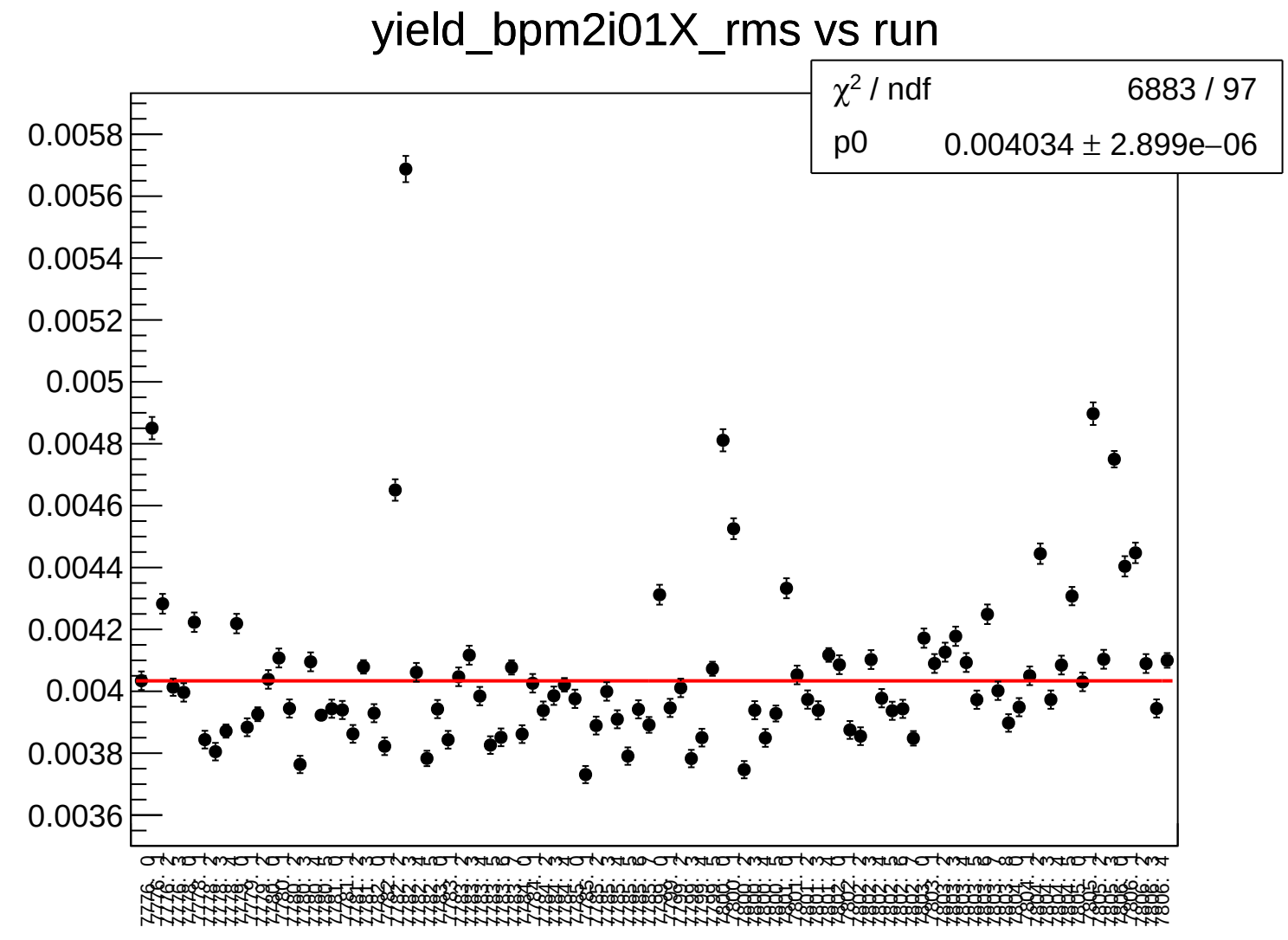

yield_bpm1i06X_rms vs run
χ² / ndf 3.196e+04 / 97
p0 0.01048 ± 7.583e–06
0.02
0.018
0.016
0.014
0.012
0.01

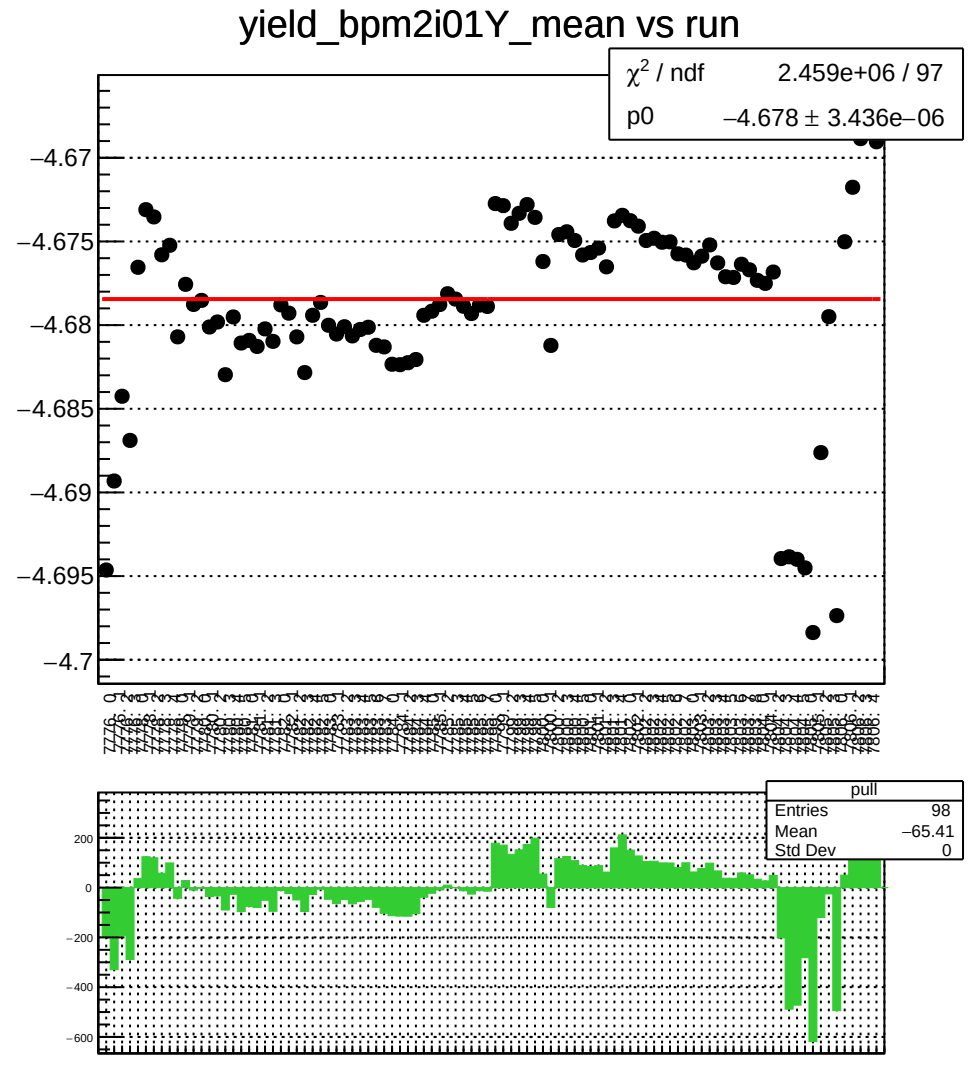

yield_bpm1i06Y_mean vs run
χ² / ndf 7.218e+06 / 97
p0 −1.238 ± 6.389e−06
−1.18
−1.2
−1.22
−1.24
−1.26
pull
Entries 98
Mean −3714
Std Dev 0
800
600
400
200
0
−200
−400
−600

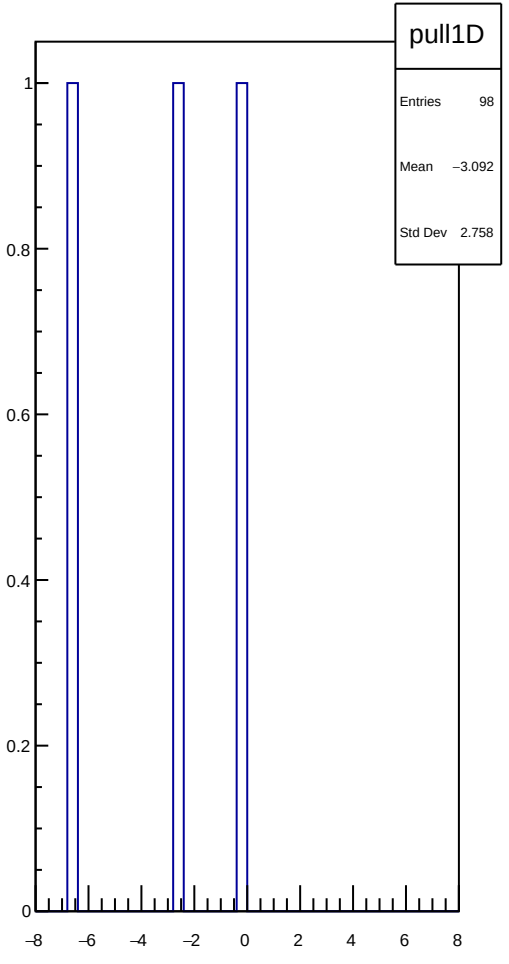

pull1D
Entries 98
Mean 5.392
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

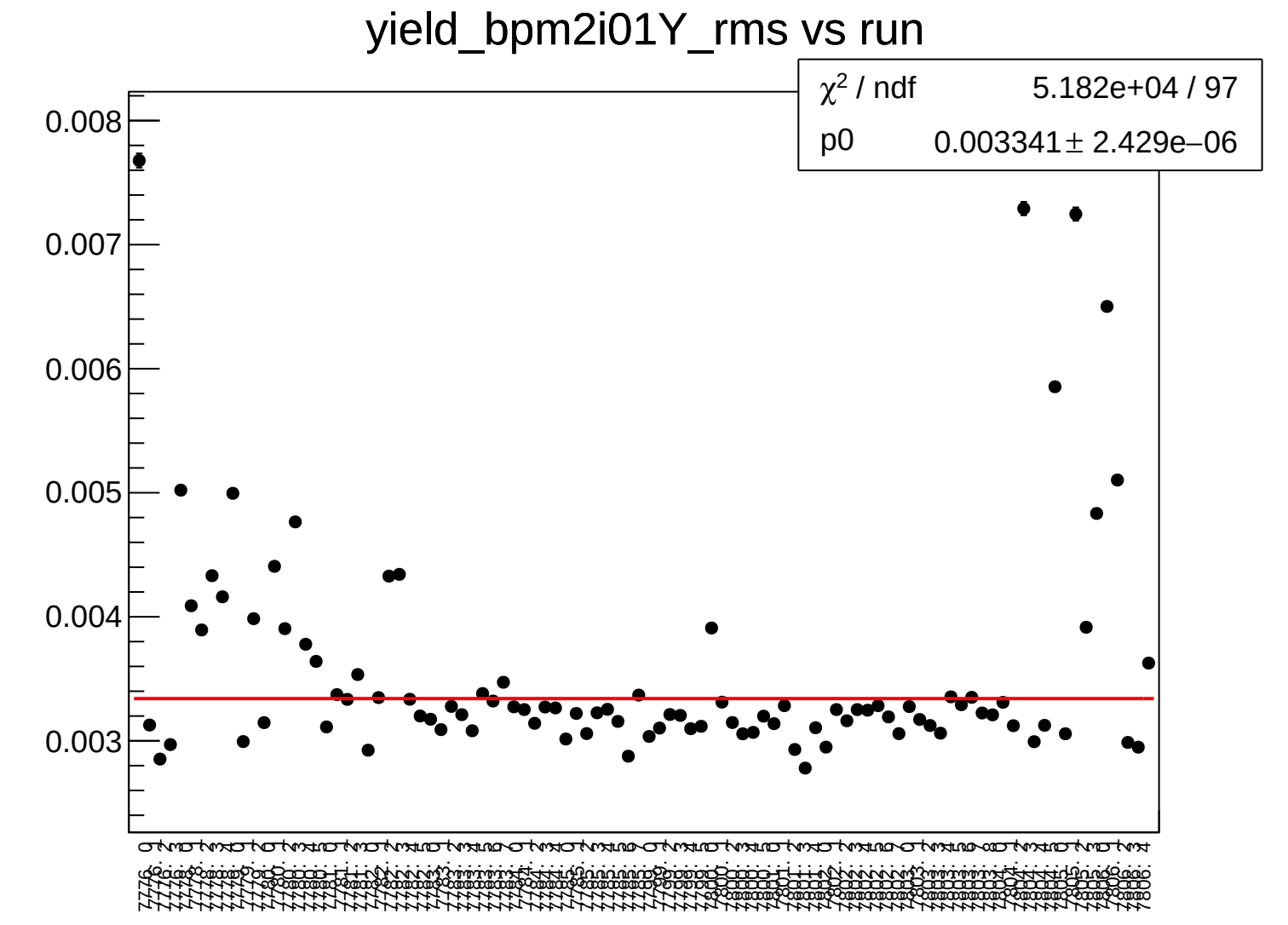

yield_bpm1i06Y_rms vs run
χ² / ndf 8.706e+04 / 97
p0 0.006154 ± 4.518e−06
0.025
0.02
0.015
0.01
0.005

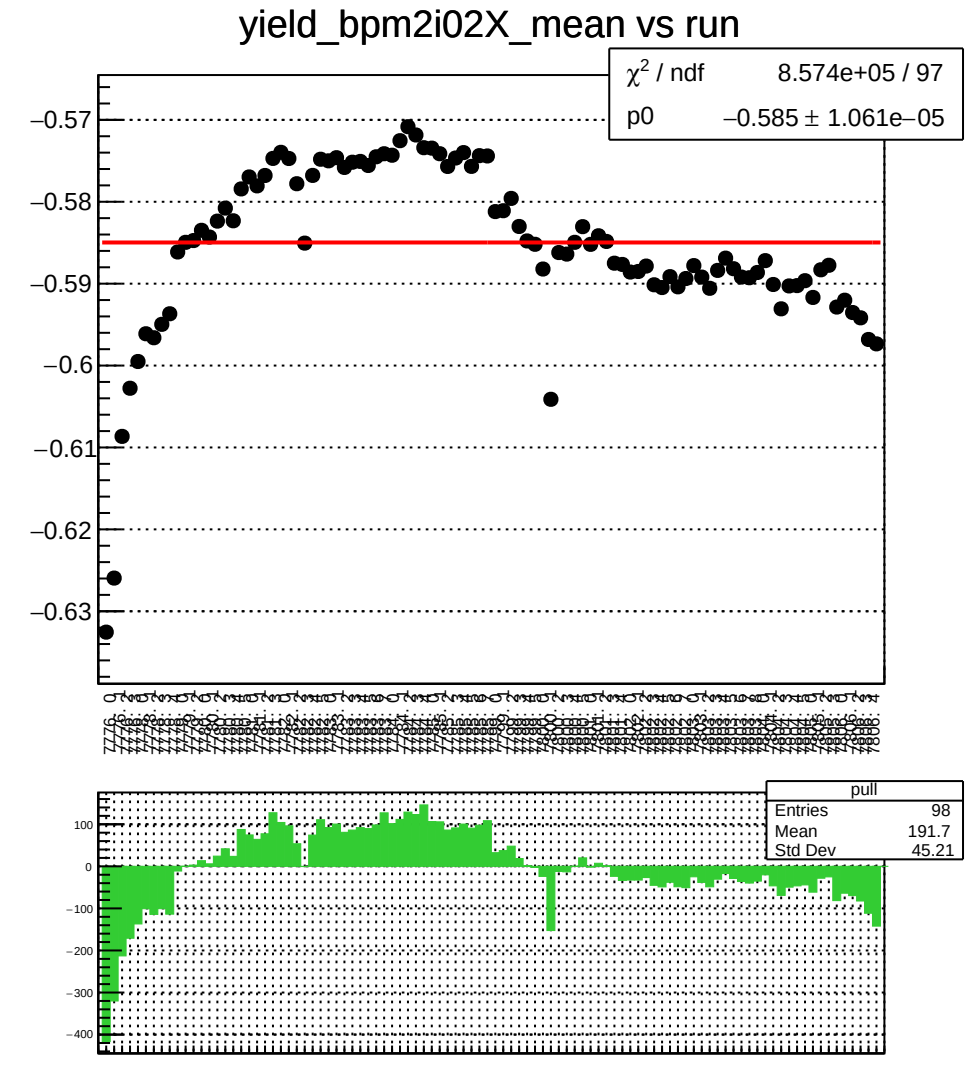

yield_bpm2i01X_mean vs run
χ² / ndf 6.565e+05 / 97
p0 0.7287 ± 4.1e−06
0.735
0.73
0.725
0.72
0.715
pull
Entries 98
Mean 173.1
Std Dev 30.21
100
0
−100
−200
−300
pull1D
Entries 98
Mean −0.2014
Std Dev 5.257
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

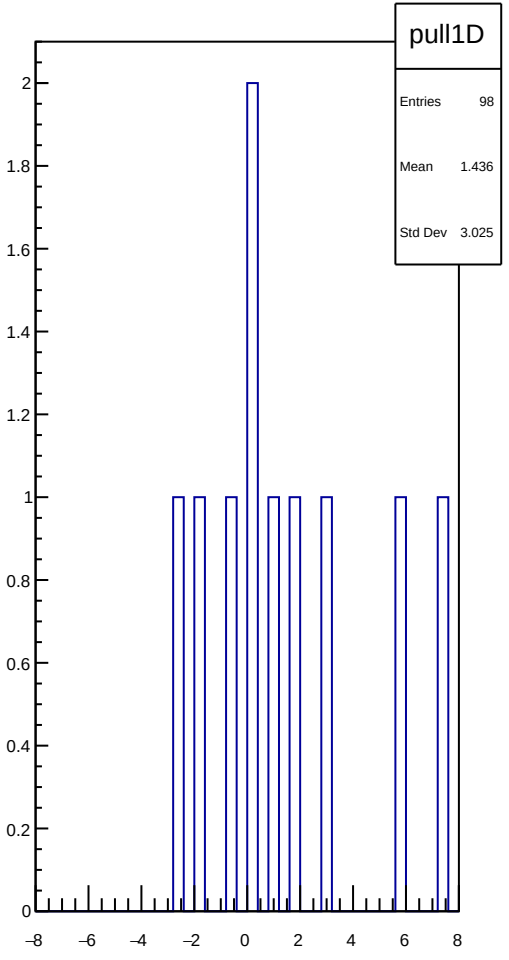

yield_bpm2i01X_rms vs run
χ² / ndf 6883 / 97
p0 0.004034 ± 2.899e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

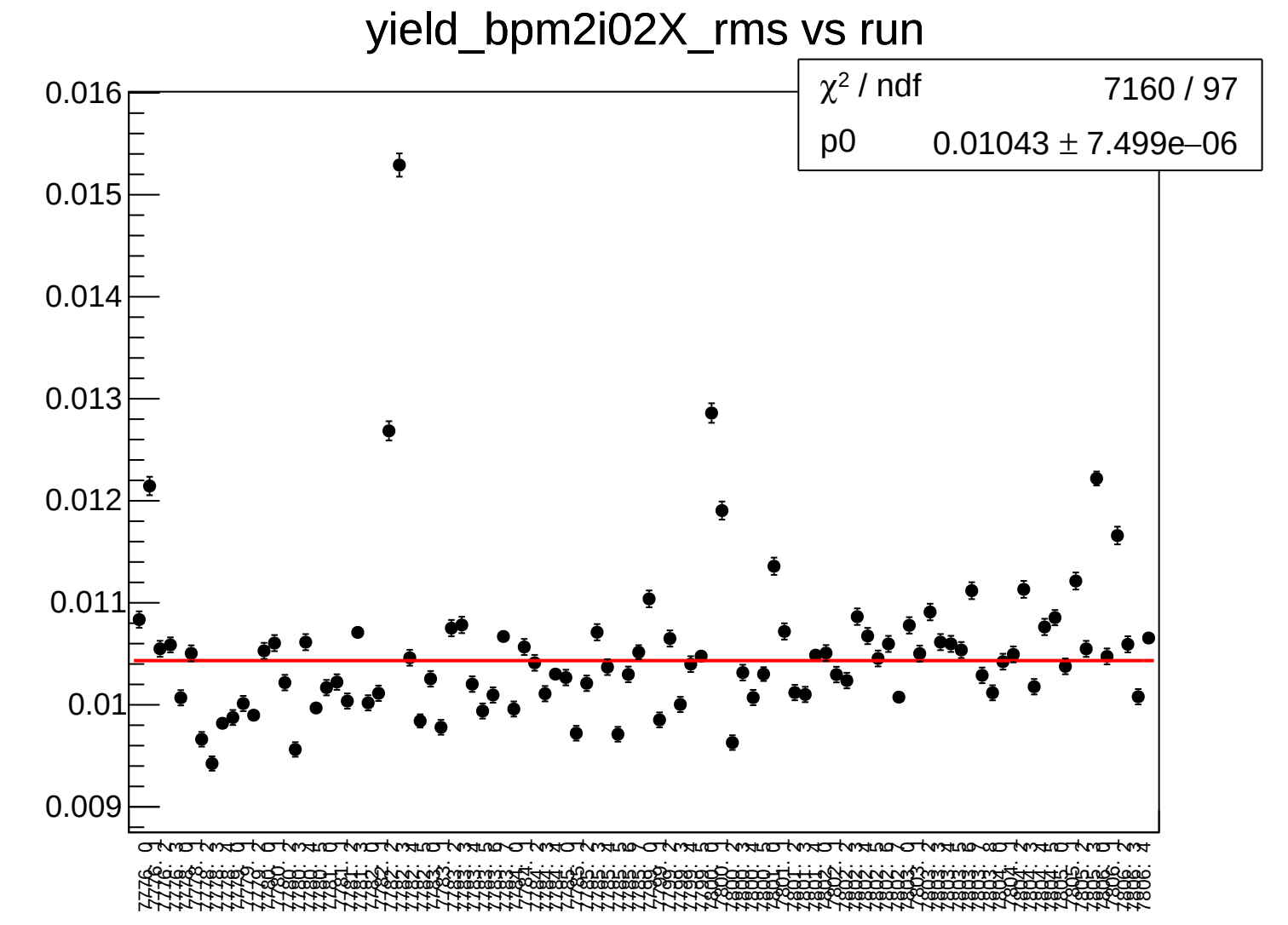

yield_bpm2i01Y_mean vs run
χ² / ndf 2.459e+06 / 97
p0 −4.678 ± 3.436e−06
−4.67
−4.675
−4.68
−4.685
−4.69
−4.695
−4.7
pull
Entries 98
Mean −65.41
Std Dev 0
200
0
−200
−400
−600

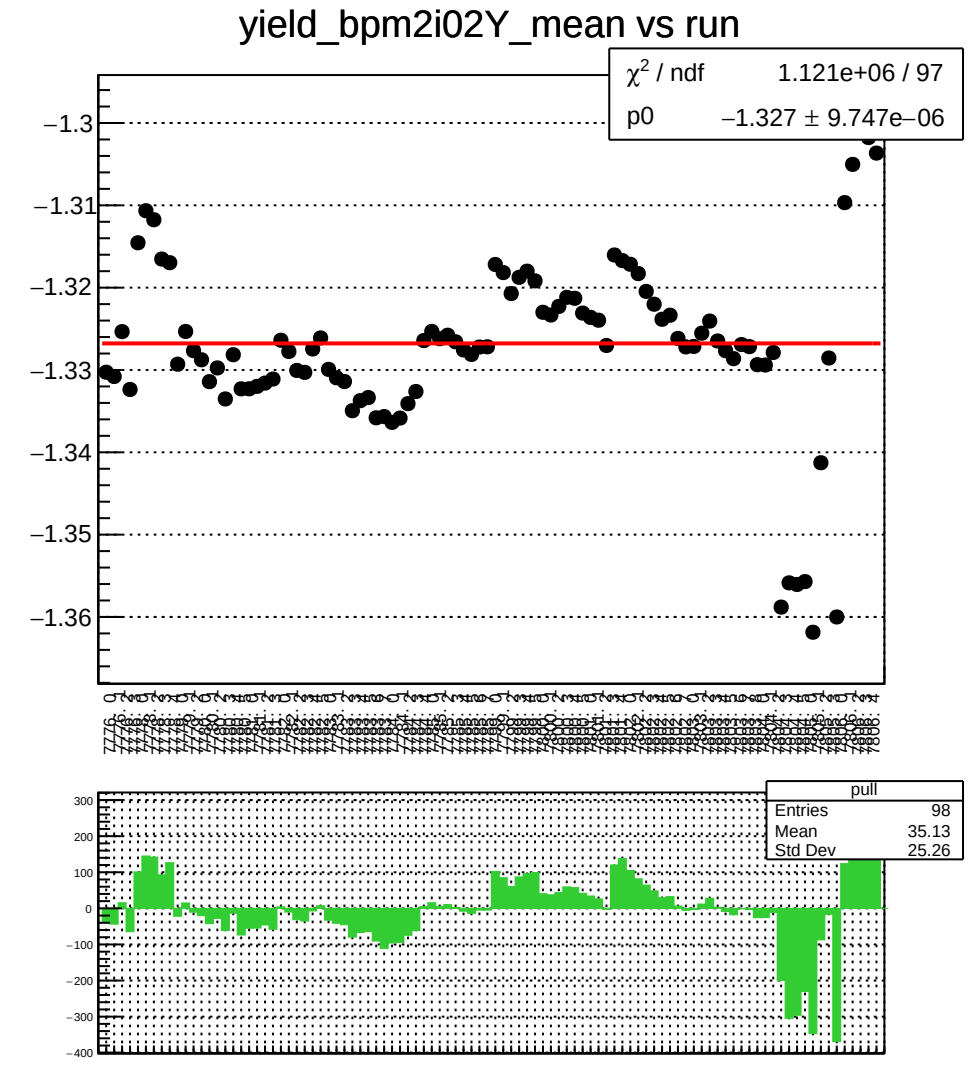

pull1D
Entries 98
Mean −3.092
Std Dev 2.758
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

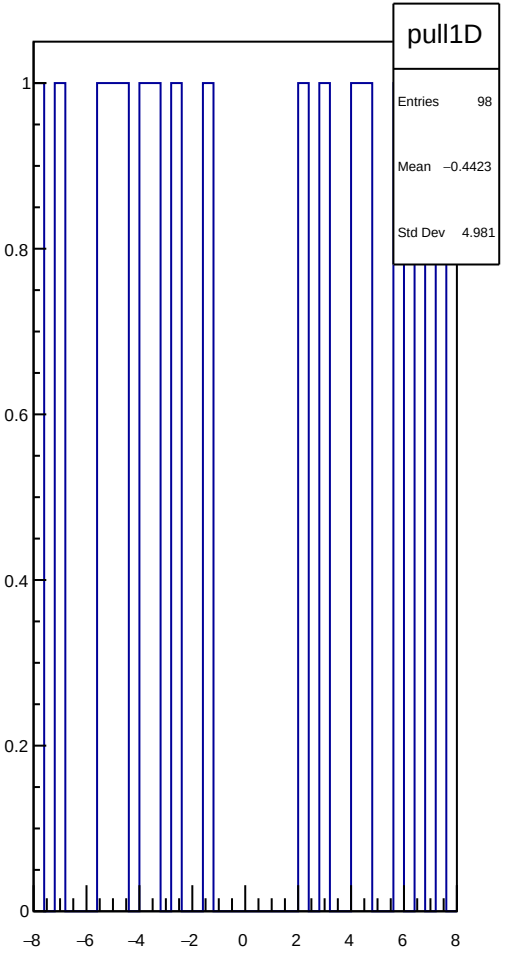

yield_bpm2i01Y_rms vs run
χ² / ndf 5.182e+04 / 97
p0 0.003341 ± 2.429e−06
0.008
0.007
0.006
0.005
0.004
0.003

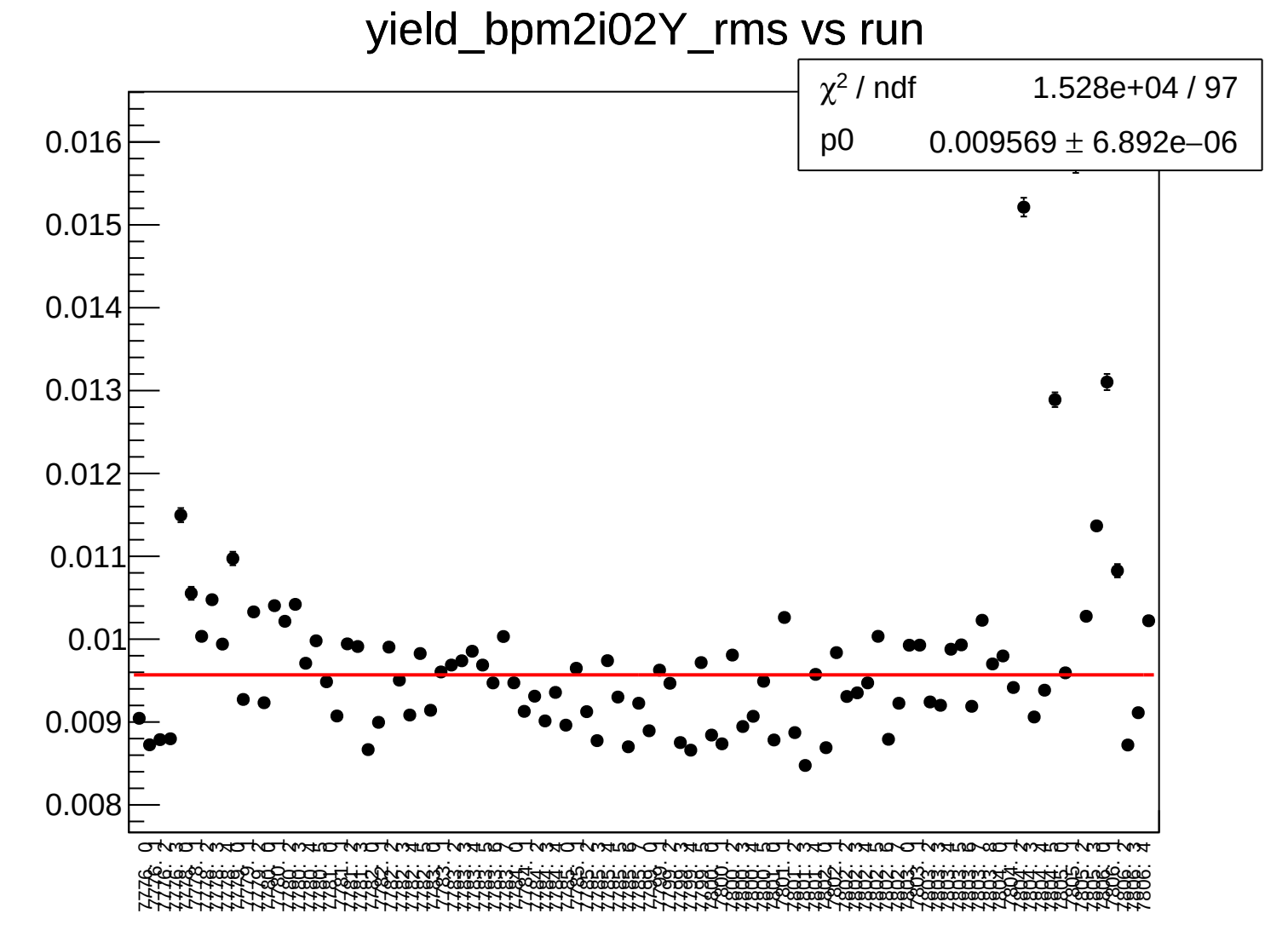

yield_bpm2i02X_mean vs run
χ² / ndf 8.574e+05 / 97
p0 −0.585 ± 1.061e−05
−0.57
−0.58
−0.59
−0.6
−0.61
−0.62
−0.63
pull
Entries 98
Mean 191.7
Std Dev 45.21
100
0
−100
−200
−300
−400

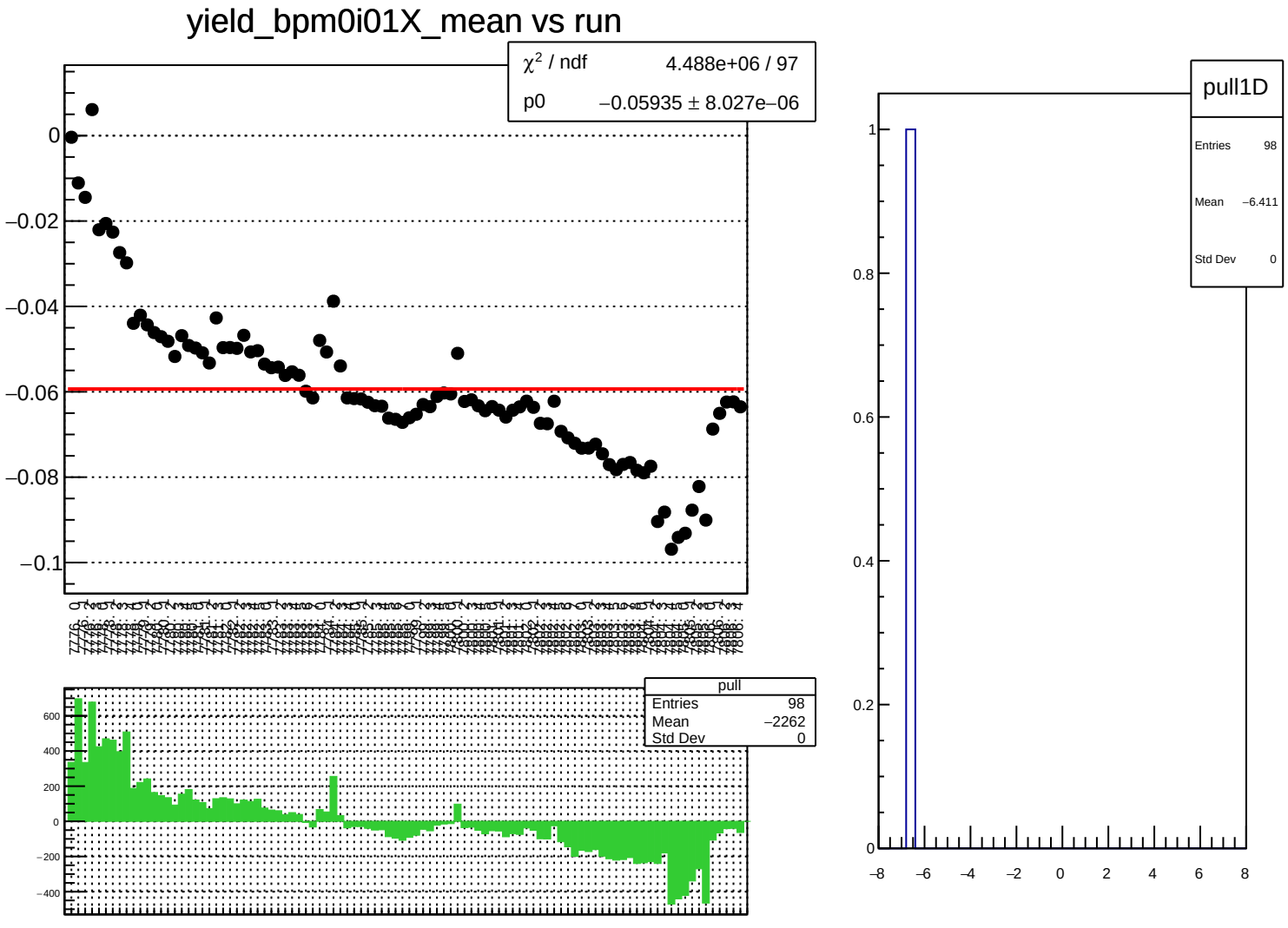

pull1D
Entries 98
Mean 1.436
Std Dev 3.025
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

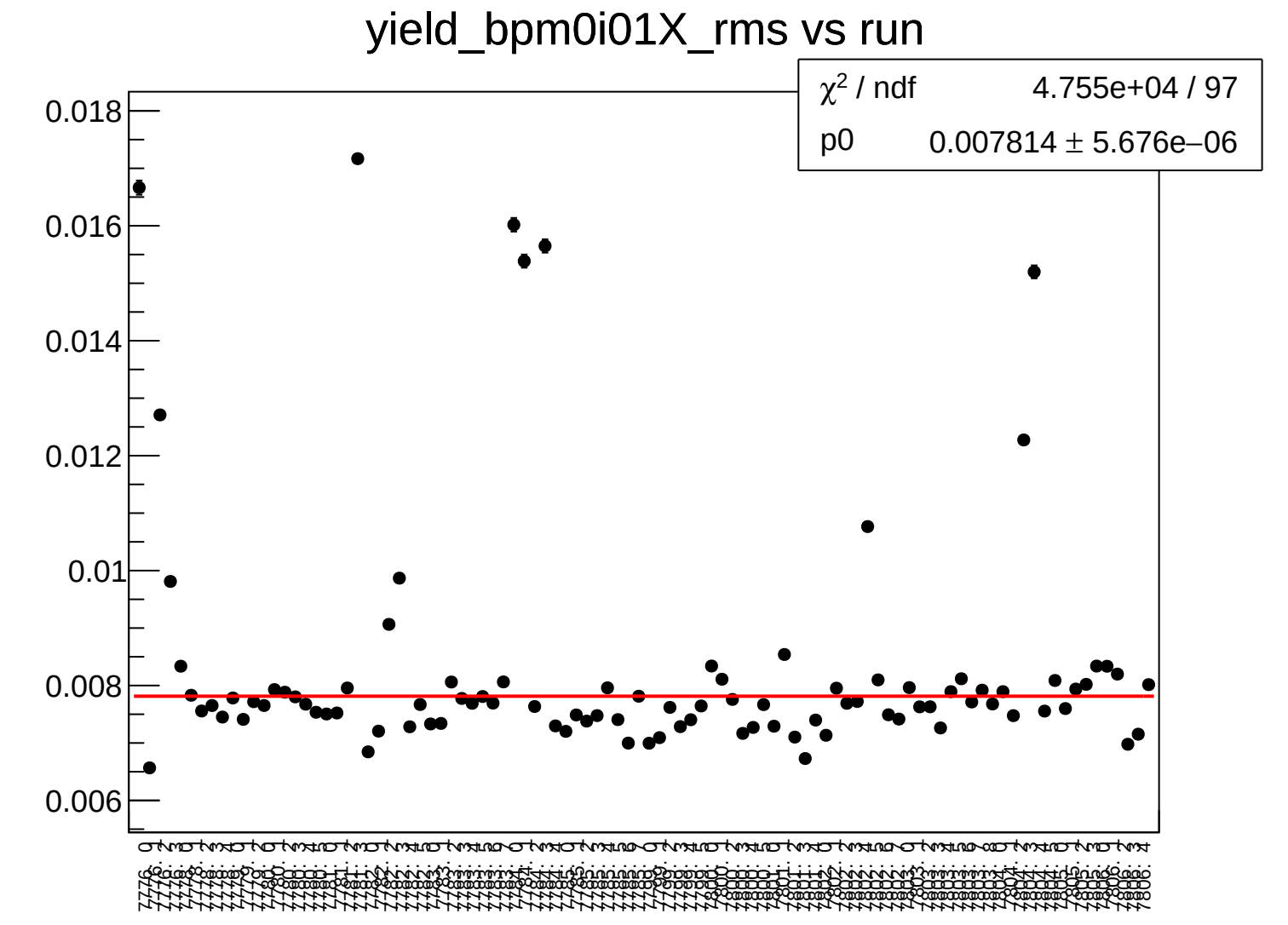

yield_bpm2i02X_rms vs run
χ² / ndf 7160 / 97
p0 0.01043 ± 7.499e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

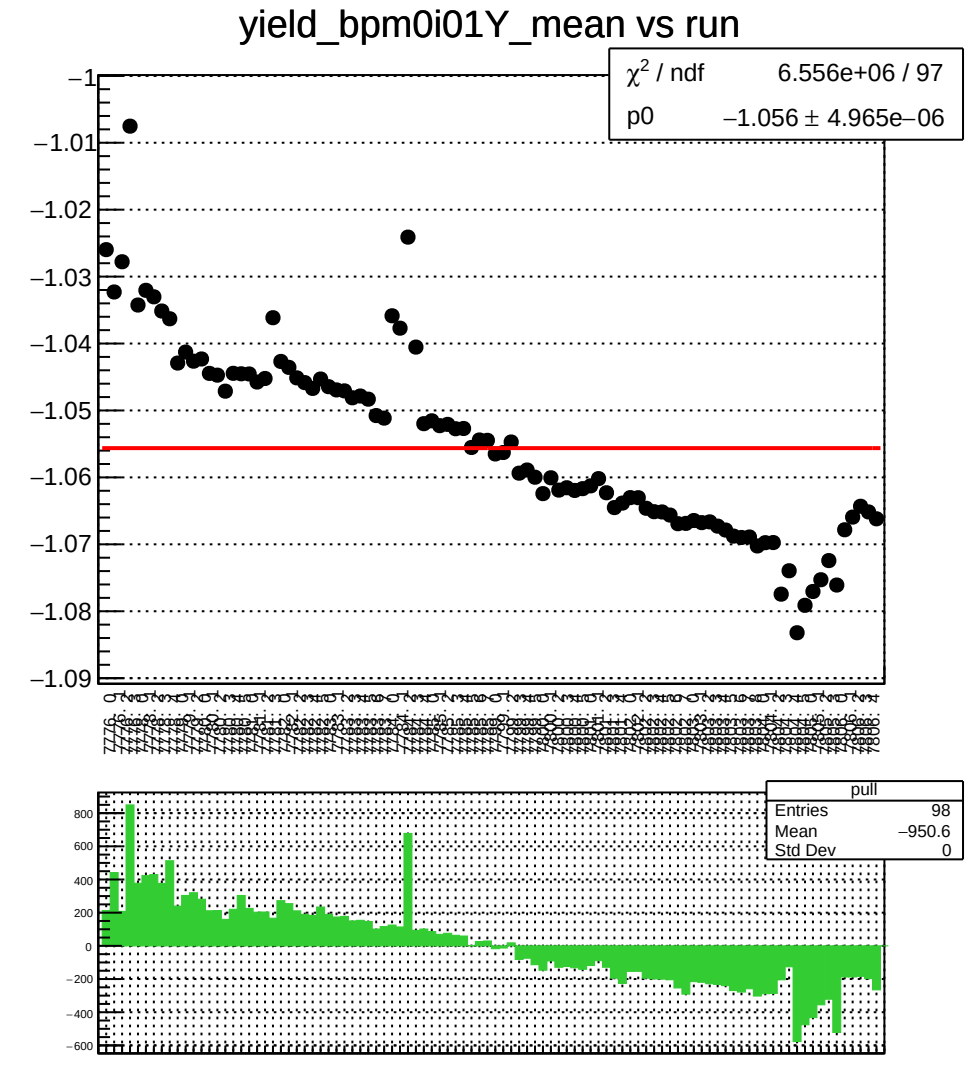

yield_bpm2i02Y_mean vs run
χ² / ndf 1.121e+06 / 97
p0 −1.327 ± 9.747e−06
−1.3
−1.31
−1.32
−1.33
−1.34
−1.35
−1.36
pull
Entries 98
Mean 35.13
Std Dev 25.26
300
200
100
0
−100
−200
−300
−400

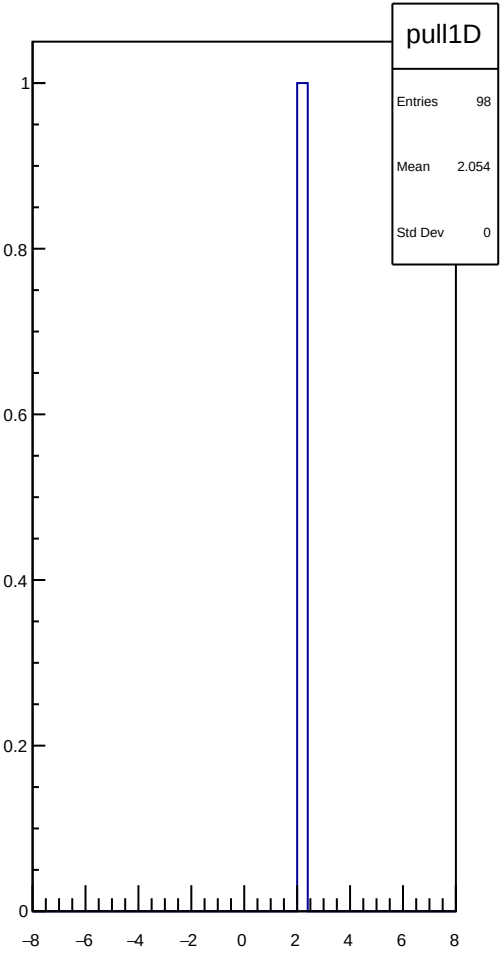

pull1D
Entries 98
Mean −0.4423
Std Dev 4.981
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

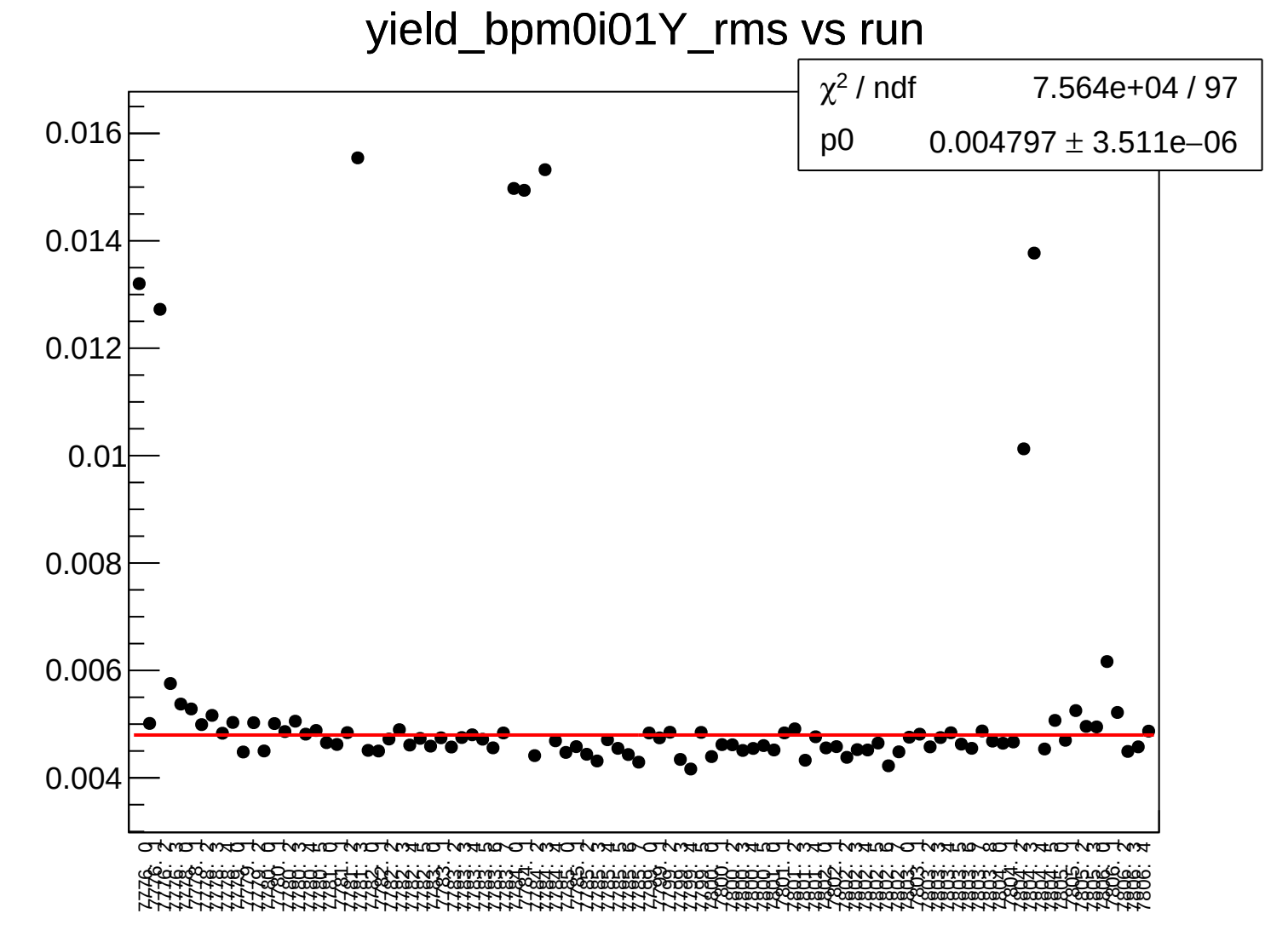

yield_bpm2i02Y_rms vs run
χ² / ndf 1.528e+04 / 97
p0 0.009569 ± 6.892e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

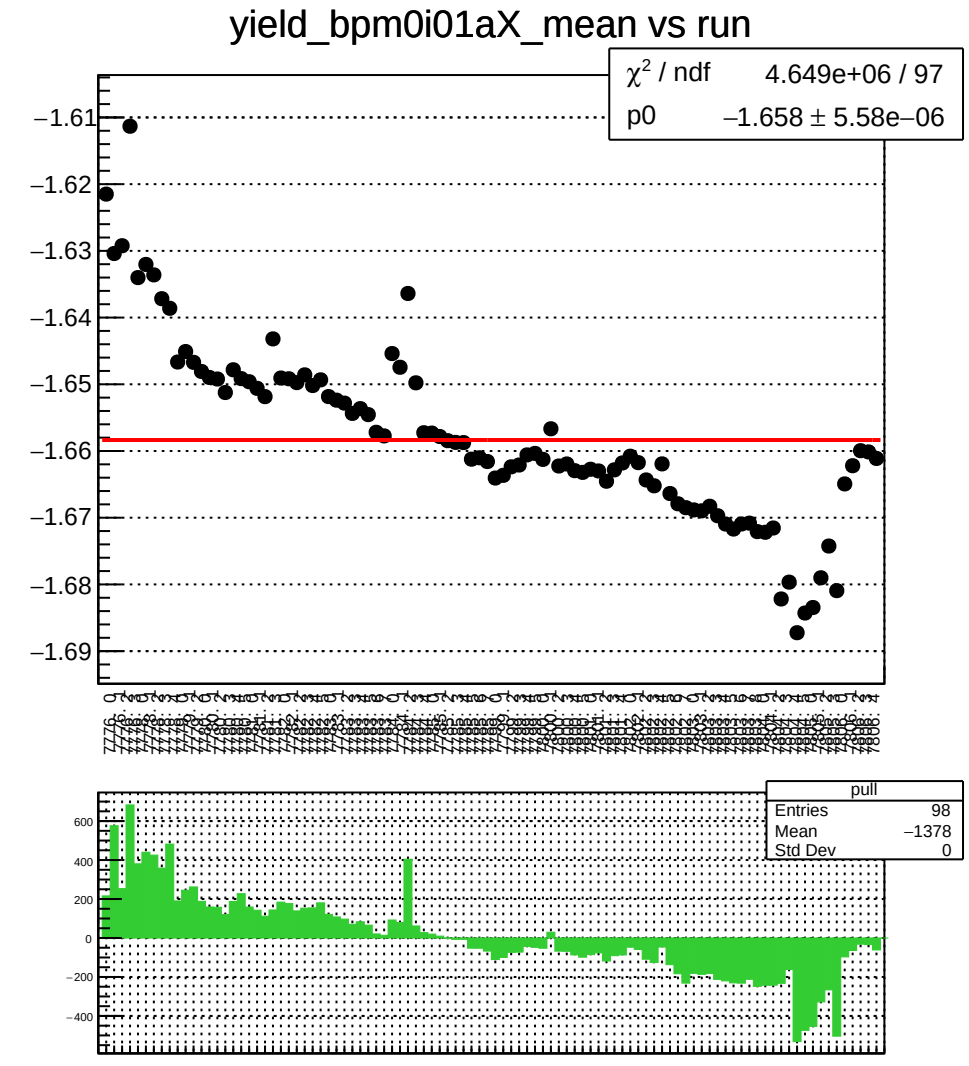

yield_bpm0i01X_mean vs run
χ² / ndf 4.488e+06 / 97
p0 −0.05935 ± 8.027e−06
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 98
Mean −2262
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 98
Mean −6.411
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

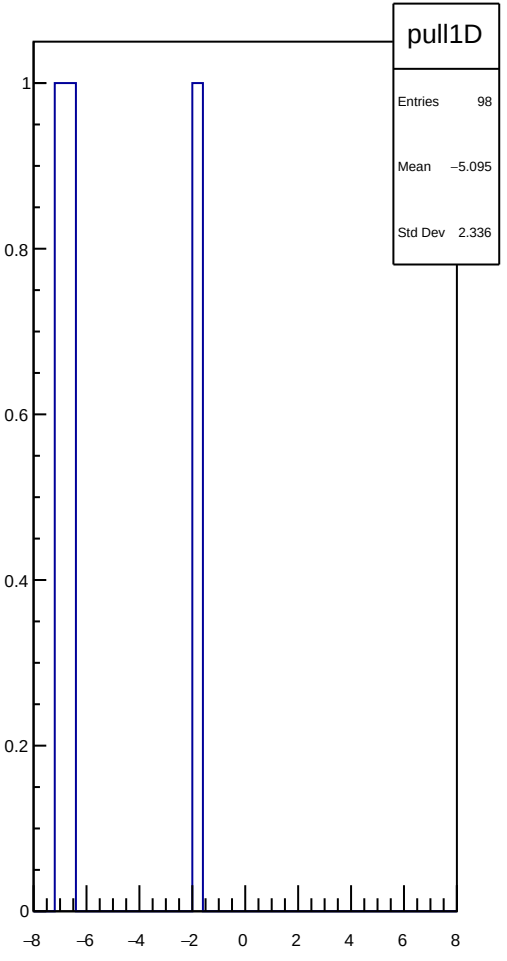

yield_bpm0i01X_rms vs run
χ² / ndf 4.755e+04 / 97
p0 0.007814 ± 5.676e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

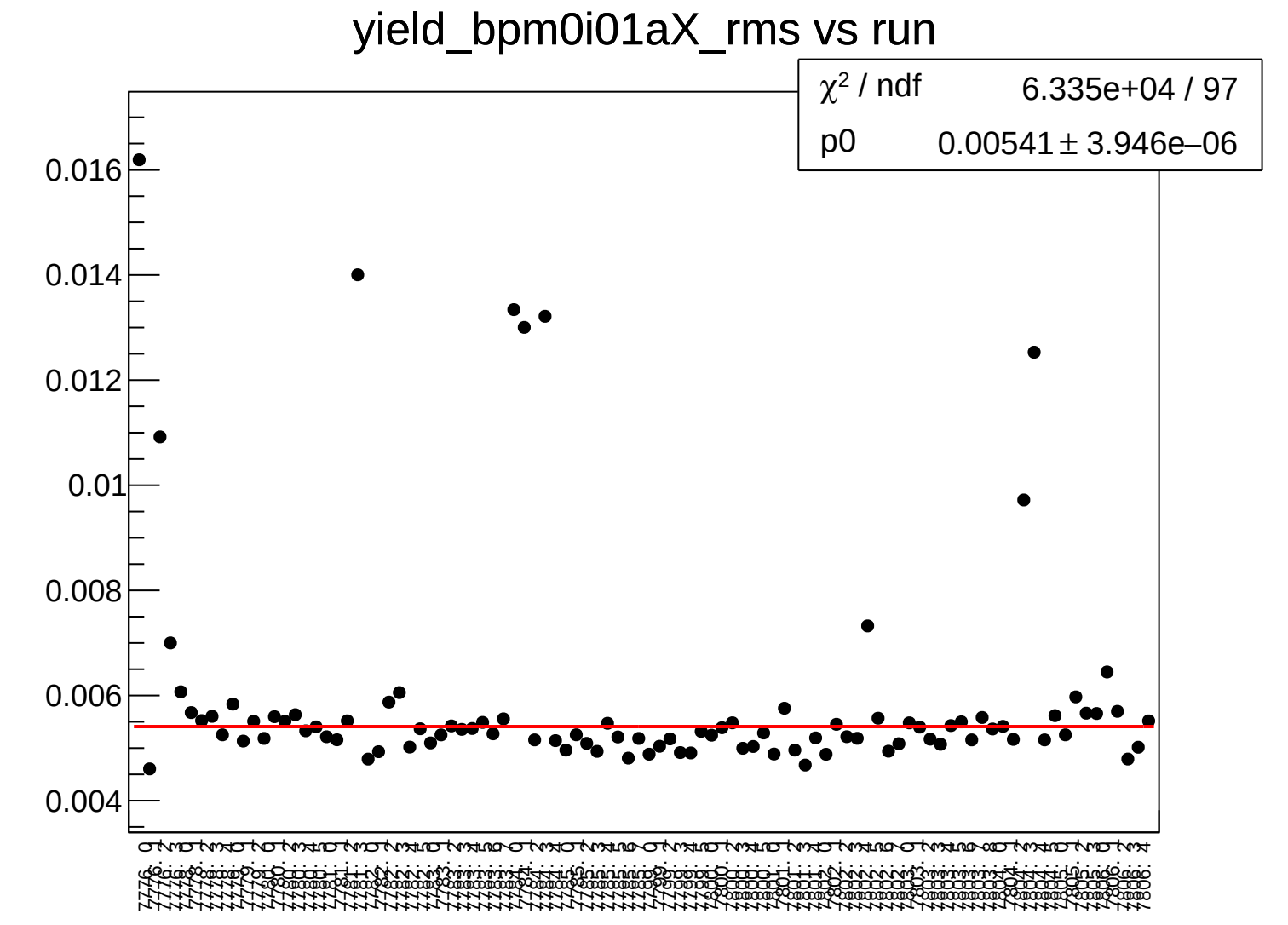

yield_bpm0i01Y_mean vs run
χ² / ndf 6.556e+06 / 97
p0 −1.056 ± 4.965e−06
pull
Entries 98
Mean −950.6
Std Dev 0

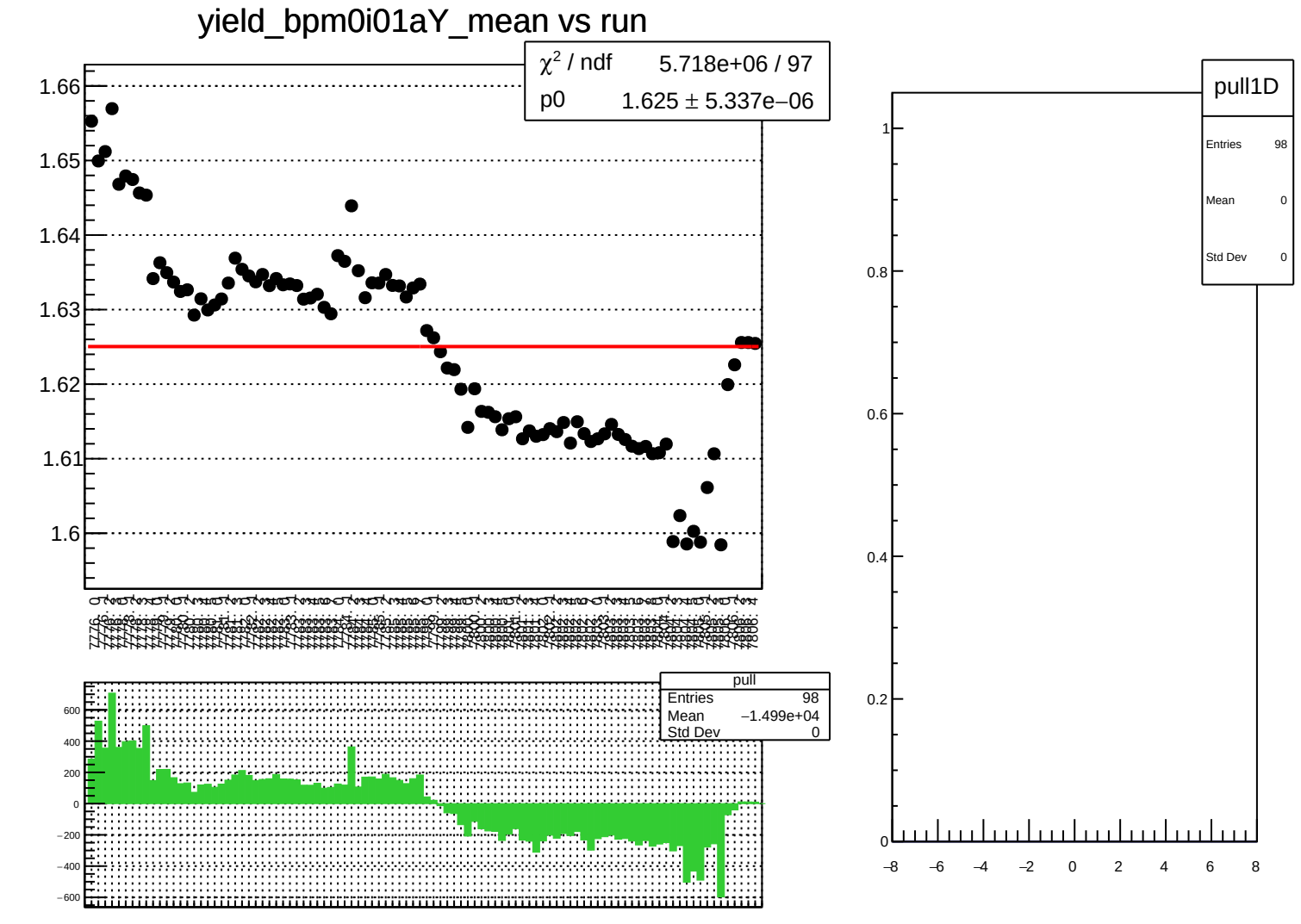

pull1D
Entries 98
Mean 2.054
Std Dev 0

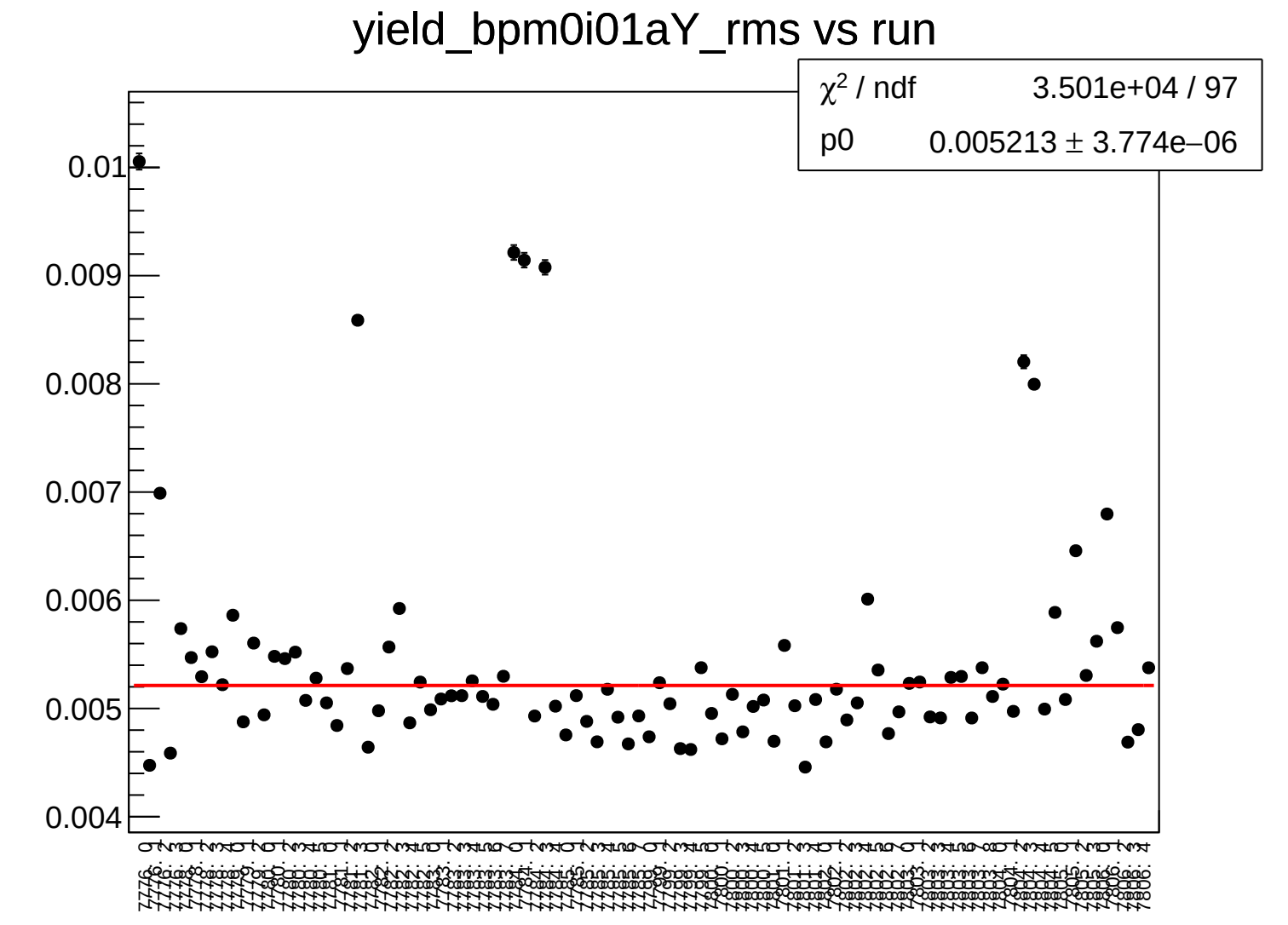

yield_bpm0i01Y_rms vs run
χ² / ndf 7.564e+04 / 97
p0 0.004797 ± 3.511e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

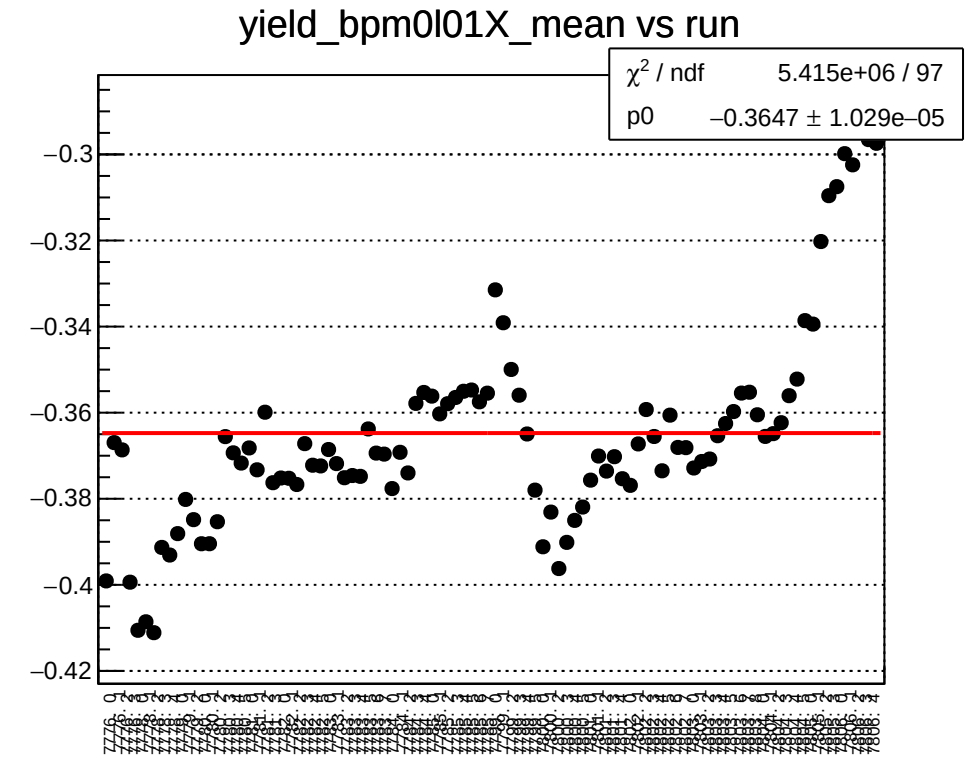

yield_bpm0i01aX_mean vs run
χ² / ndf 4.649e+06 / 97
p0 −1.658 ± 5.58e−06
−1.61
−1.62
−1.63
−1.64
−1.65
−1.66
−1.67
−1.68
−1.69
pull
Entries 98
Mean −1378
Std Dev 0
600
400
200
0
−200
−400

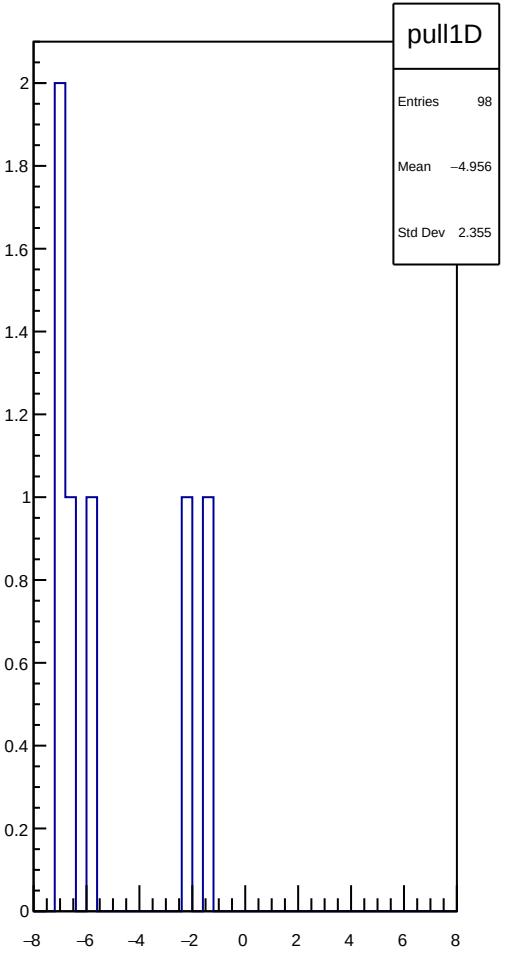

pull1D
Entries 98
Mean −5.095
Std Dev 2.336
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

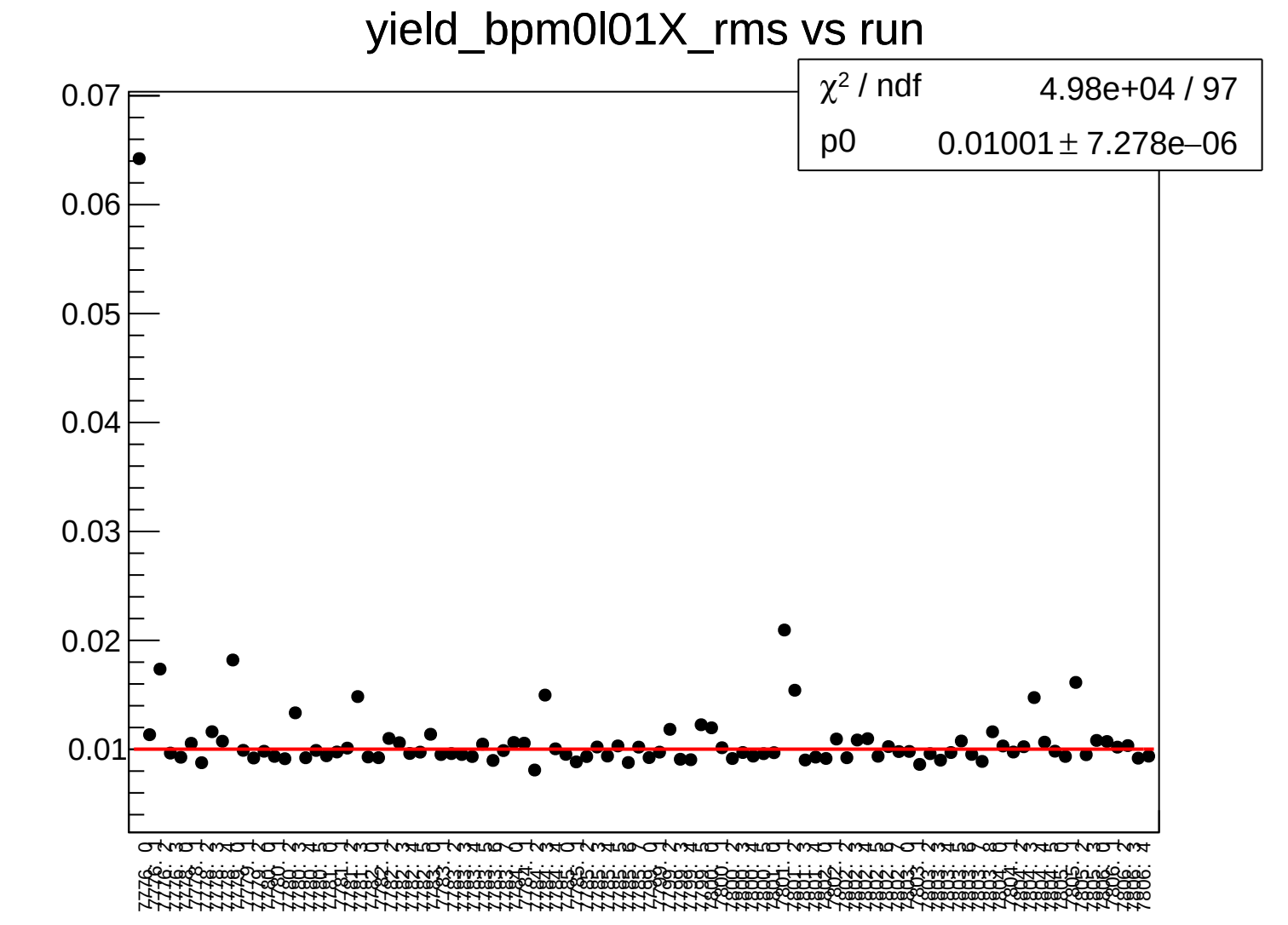

yield_bpm0i01aX_rms vs run
χ² / ndf 6.335e+04 / 97
p0 0.00541 ± 3.946e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

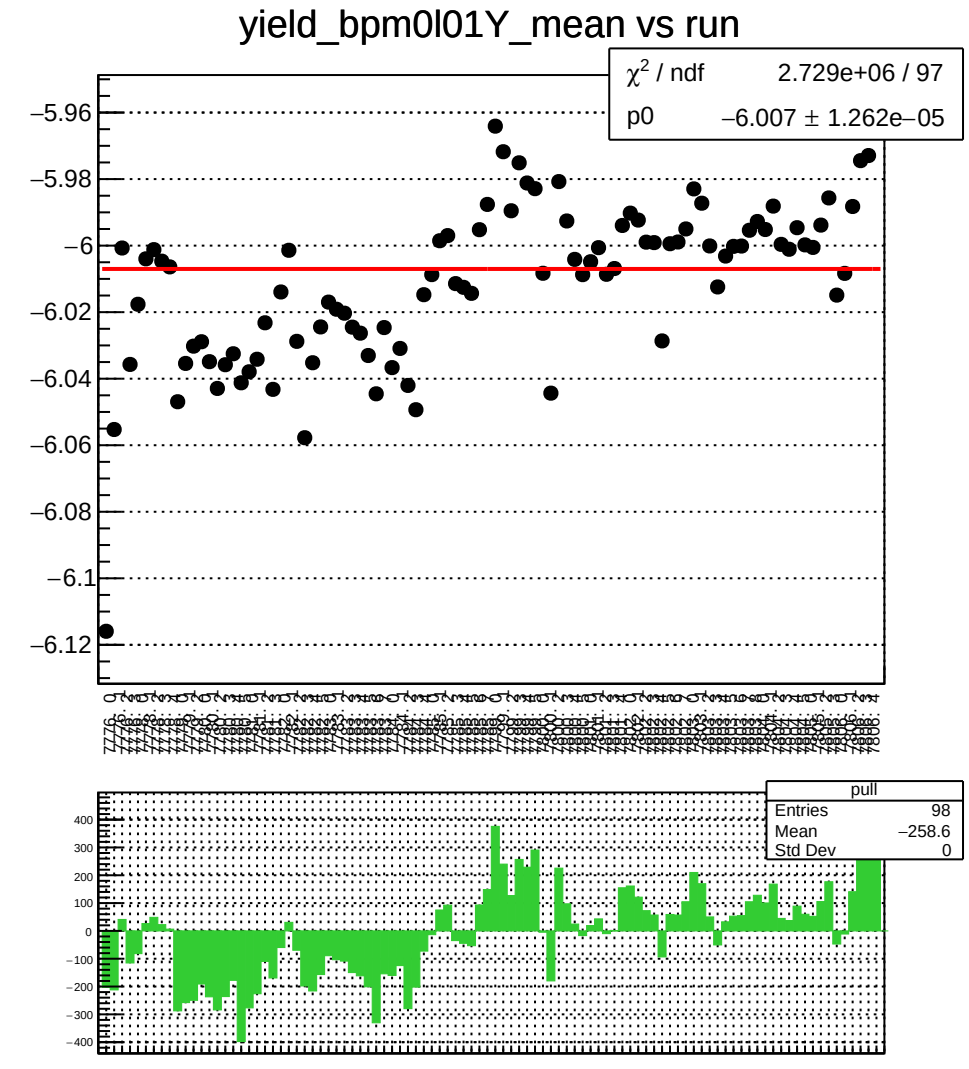

yield_bpm0i01aY_mean vs run
χ² / ndf 5.718e+06 / 97
p0 1.625 ± 5.337e−06
1.66
1.65
1.64
1.63
1.62
1.61
1.6
pull
Entries 98
Mean −1.499e+04
Std Dev 0
600
400
200
0
−200
−400
−600
pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

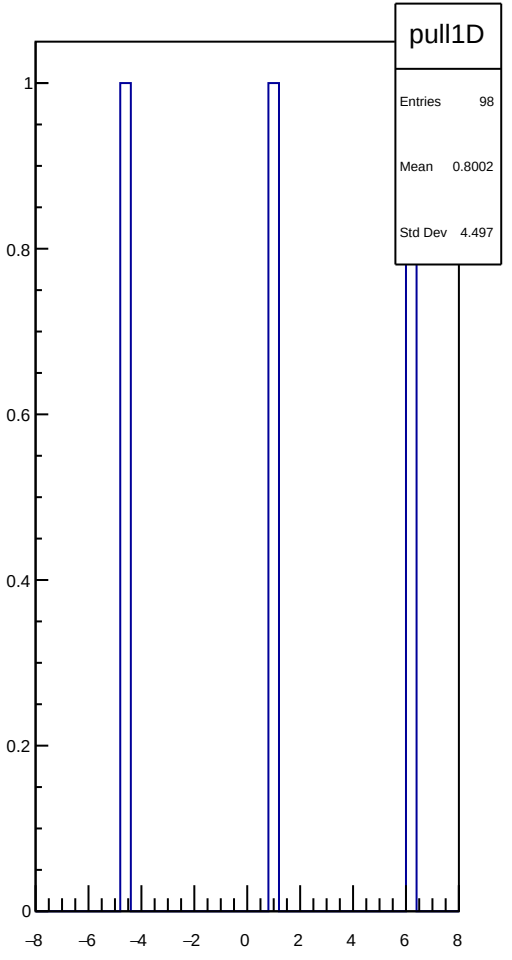

yield_bpm0i01aY_rms vs run
χ² / ndf 3.501e+04 / 97
p0 0.005213 ± 3.774e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

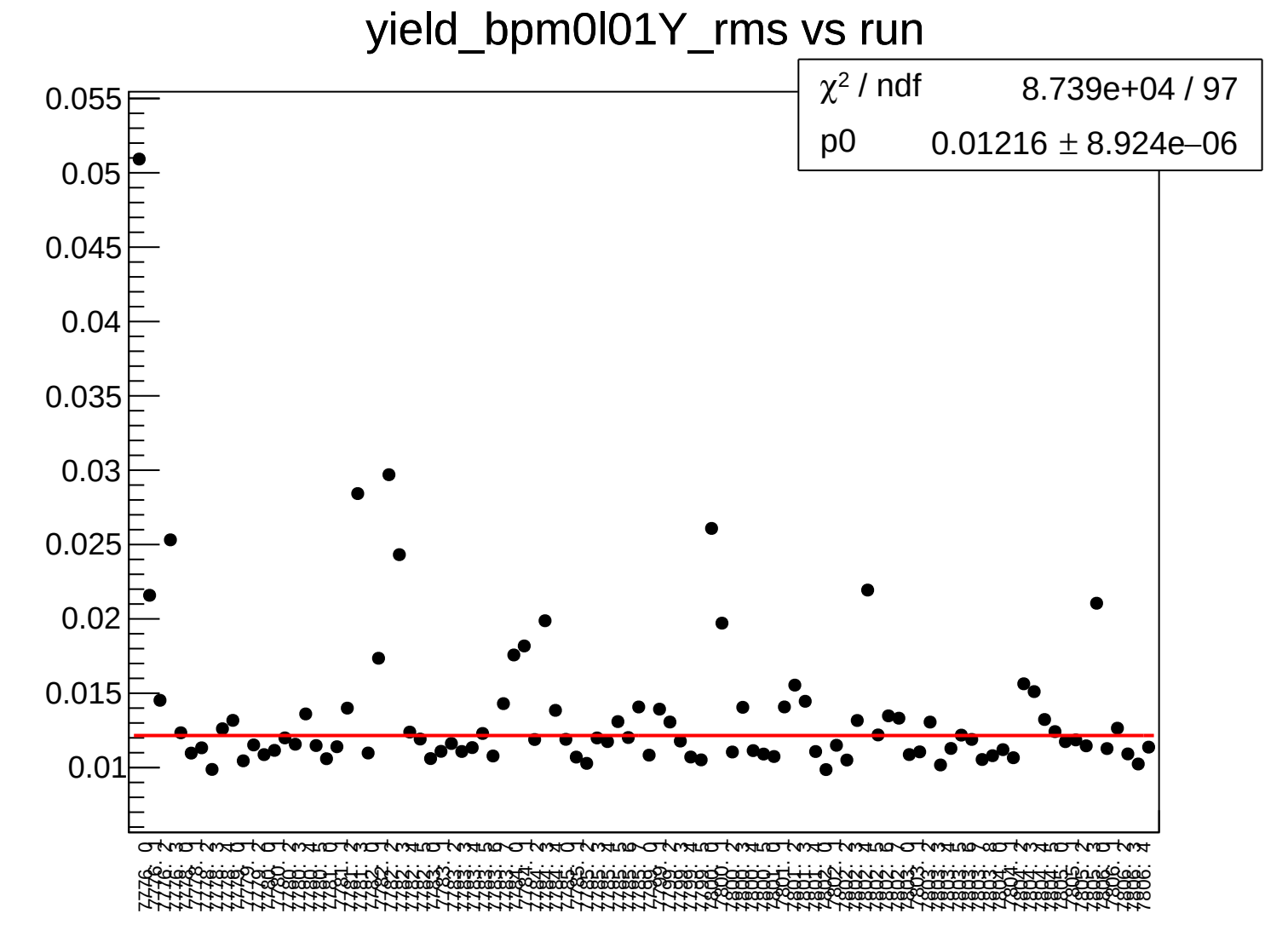

yield_bpm0l01X_mean vs run
χ² / ndf 5.415e+06 / 97
p0 −0.3647 ± 1.029e−05
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
−0.42
pull
Entries 98
Mean −1.004e+04
Std Dev 0
800
600
400
200
0
−200
−400

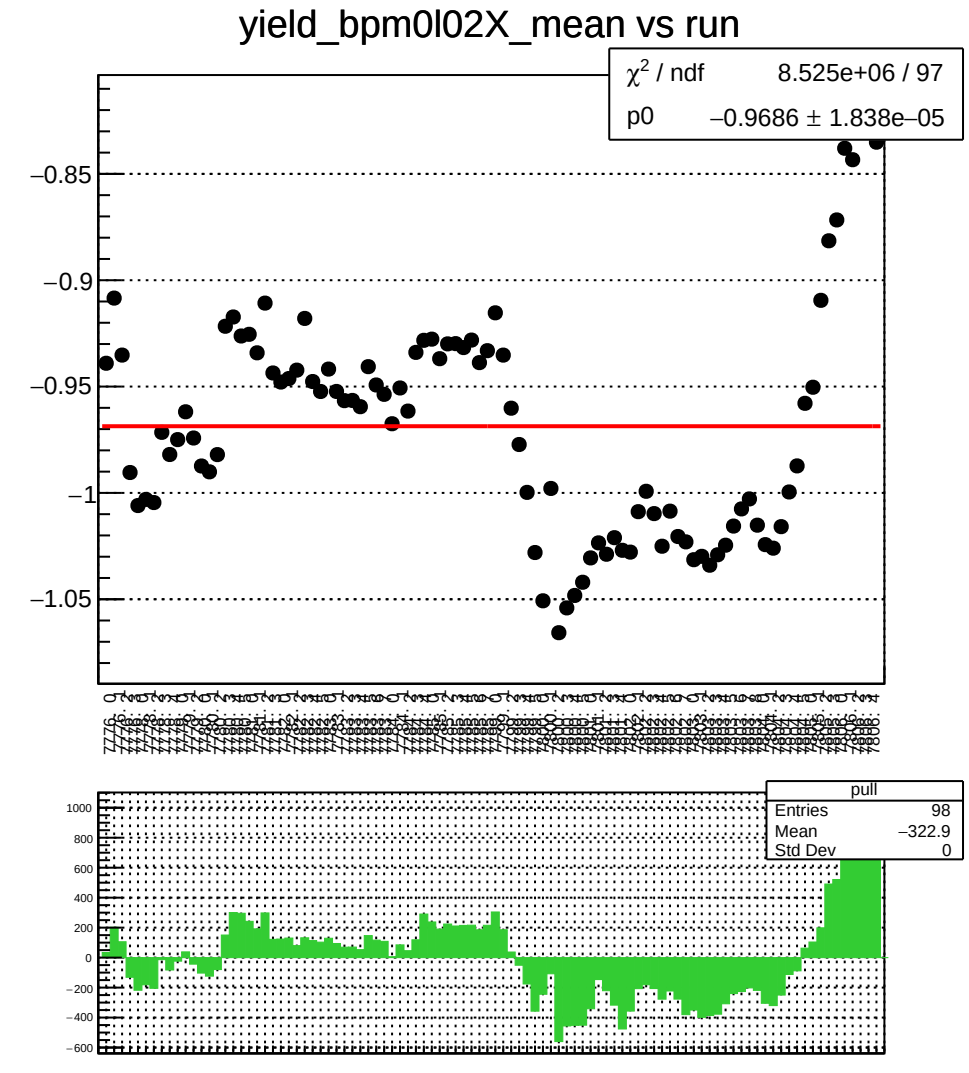

pull1D
Entries 98
Mean −4.956
Std Dev 2.355
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

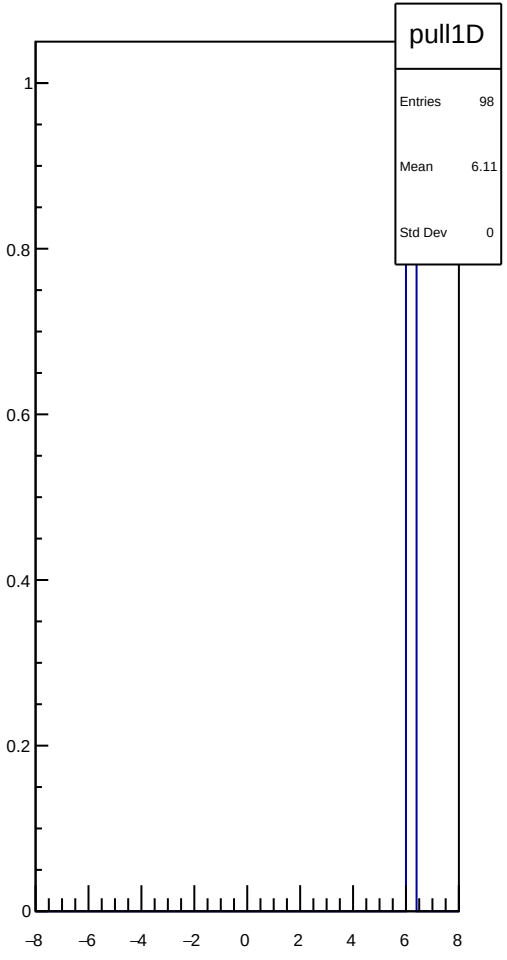

yield_bpm0l01X_rms vs run
χ² / ndf 4.98e+04 / 97
p0 0.01001 ± 7.278e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

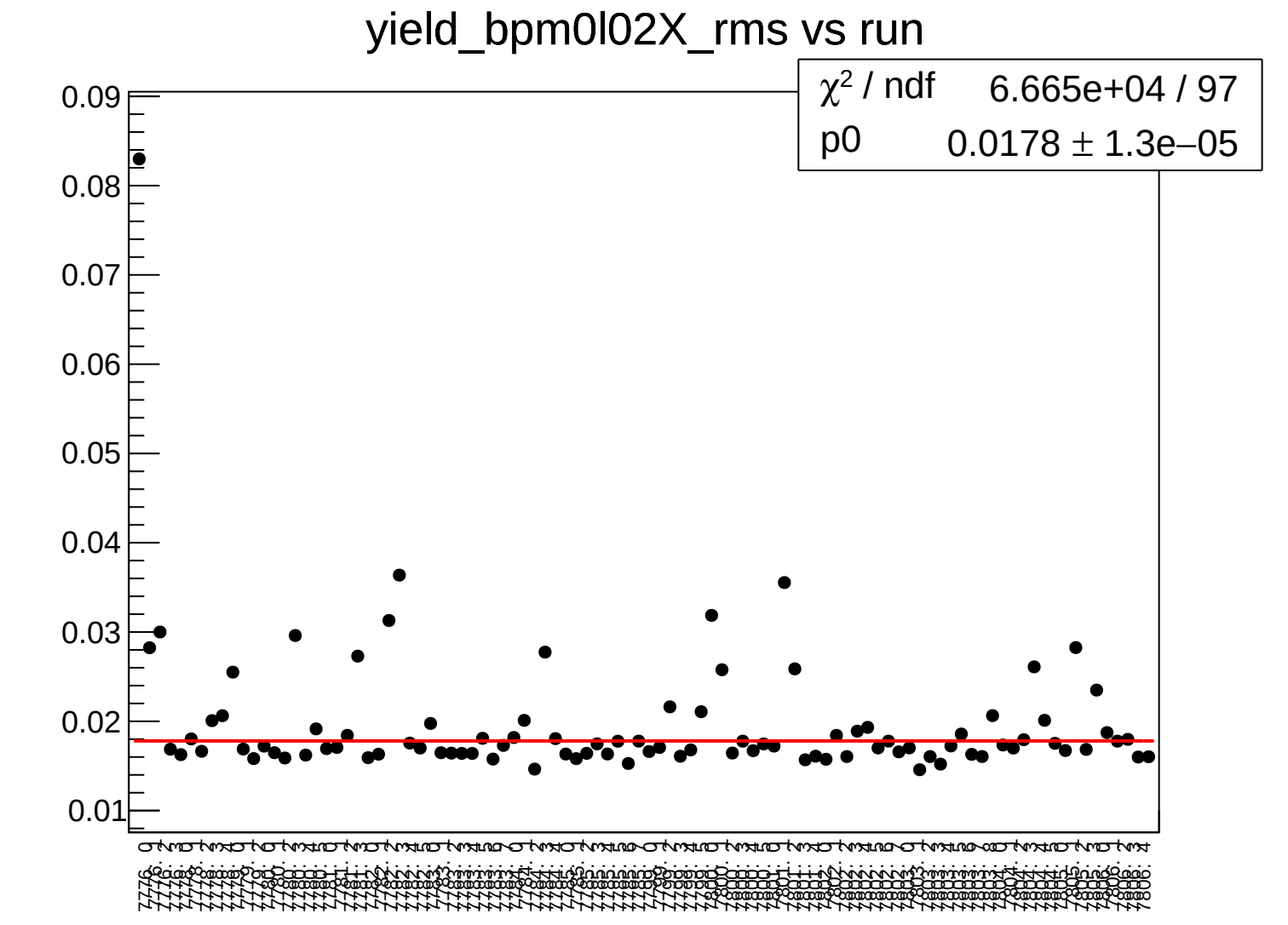

yield_bpm0l01Y_mean vs run
χ² / ndf 2.729e+06 / 97
p0 −6.007 ± 1.262e−05
−5.96
−5.98
−6
−6.02
−6.04
−6.06
−6.08
−6.1
−6.12
pull
Entries 98
Mean −258.6
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

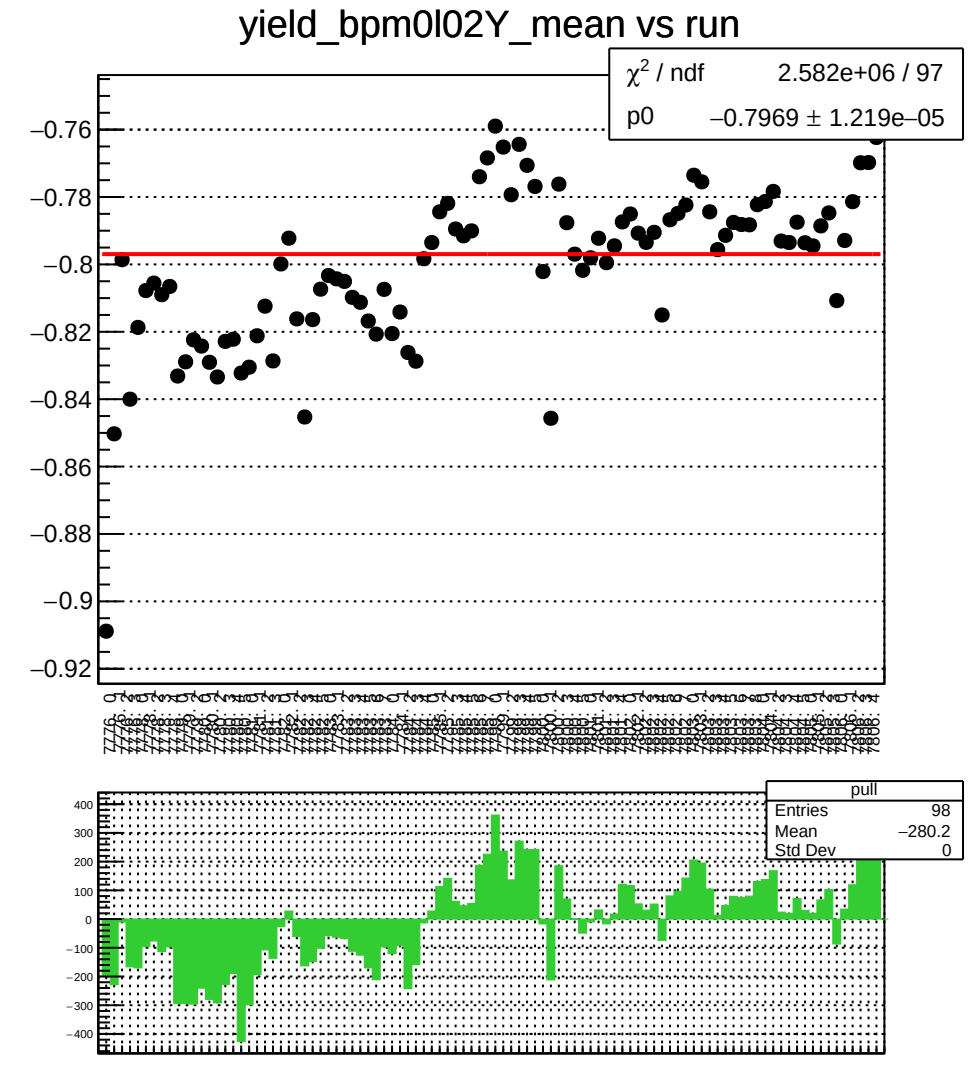

pull1D
Entries 98
Mean 0.8002
Std Dev 4.497
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

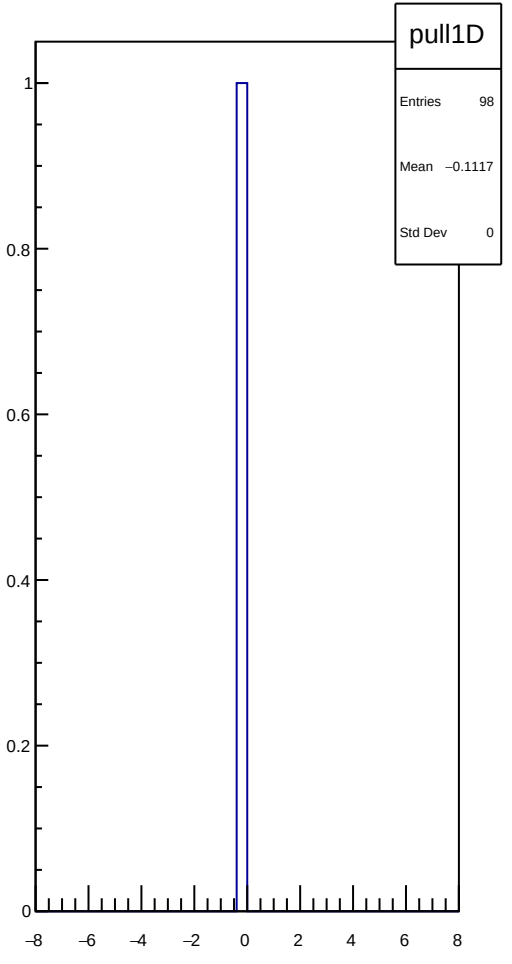

yield_bpm0l01Y_rms vs run
χ² / ndf 8.739e+04 / 97
p0 0.01216 ± 8.924e–06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

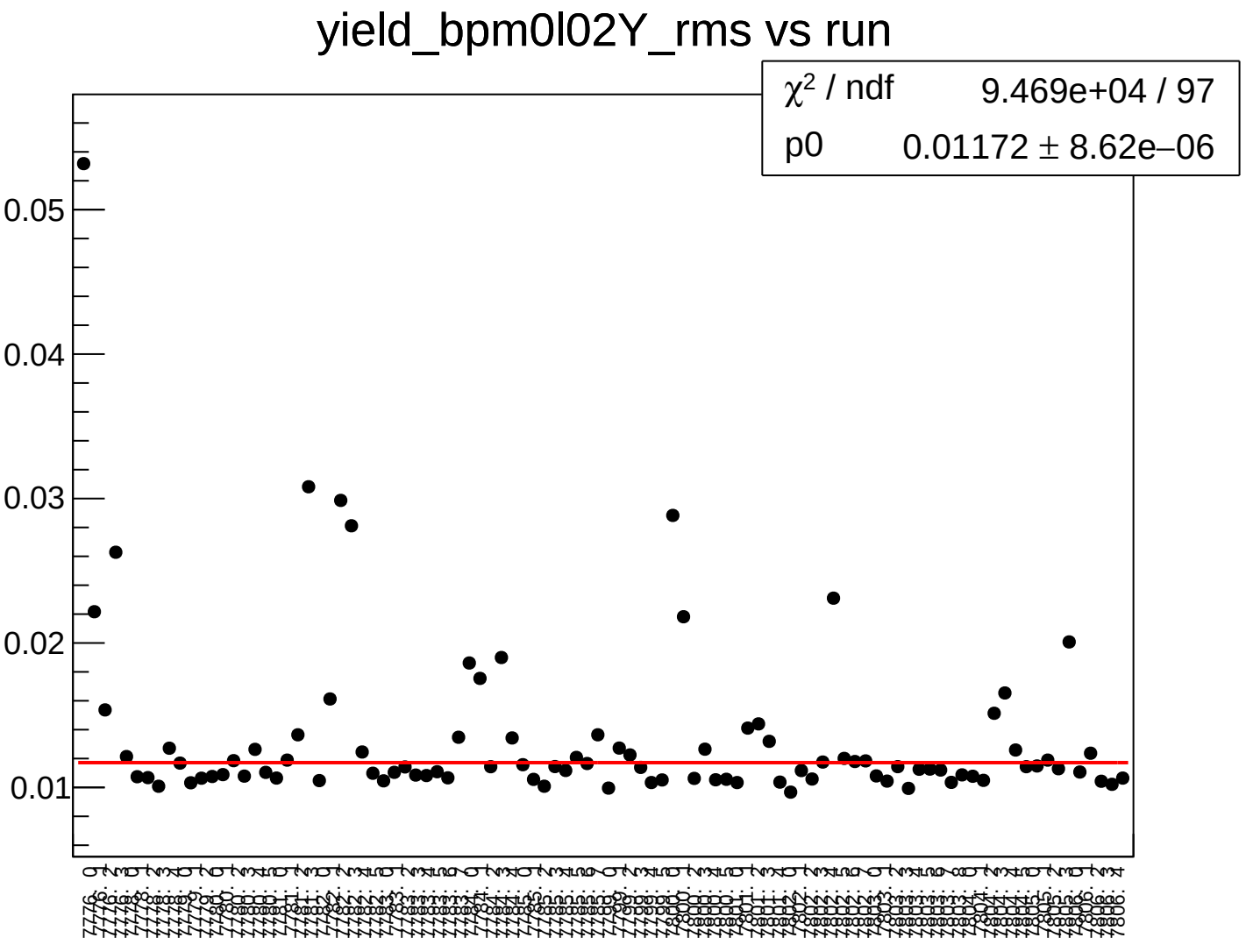

yield_bpm0l02X_mean vs run
χ² / ndf 8.525e+06 / 97
p0 −0.9686 ± 1.838e−05
−0.85
−0.9
−0.95
−1
−1.05
pull
Entries 98
Mean −322.9
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

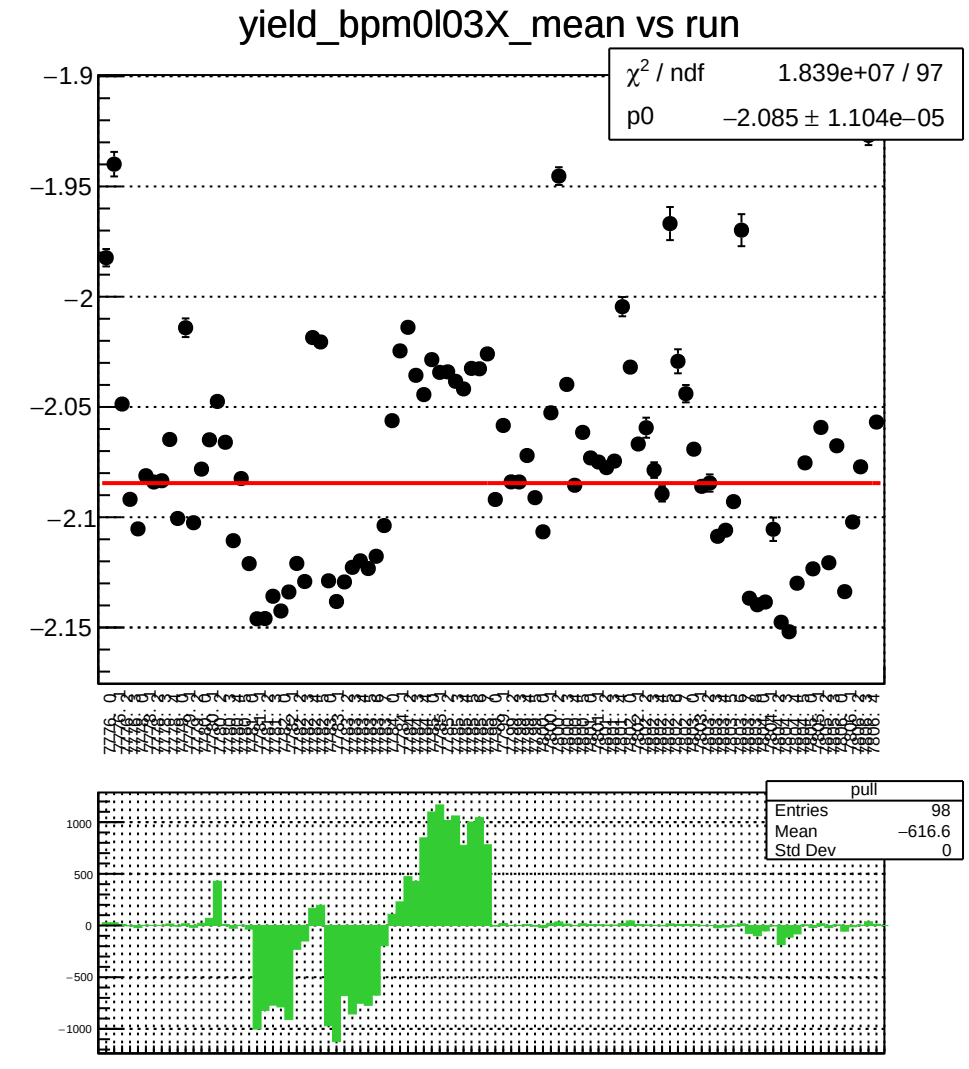

pull1D
Entries 98
Mean 6.11
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

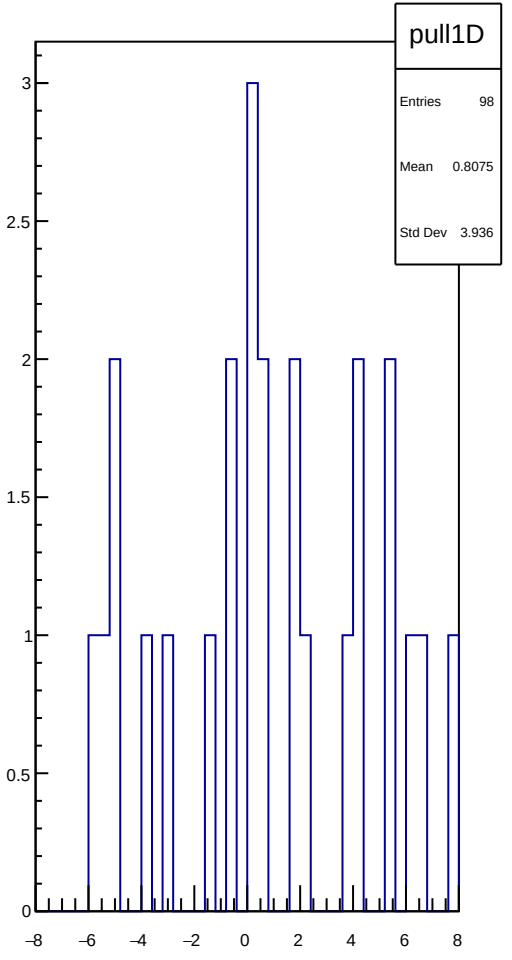

yield_bpm0l02X_rms vs run
χ² / ndf 6.665e+04 / 97
p0 0.0178 ± 1.3e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

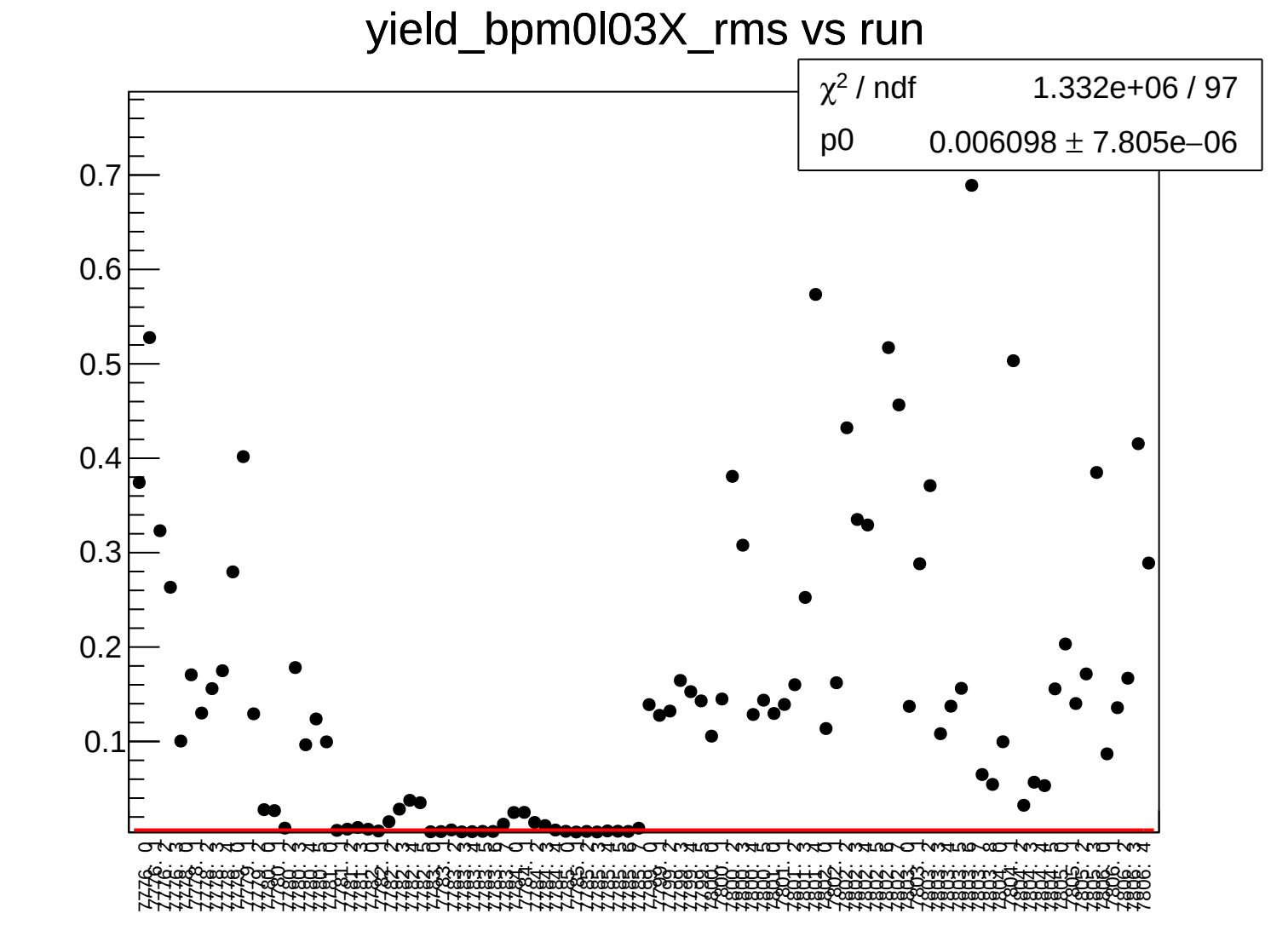

yield_bpm0l02Y_mean vs run
χ² / ndf 2.582e+06 / 97
p0 −0.7969 ± 1.219e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
pull
Entries 98
Mean −280.2
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

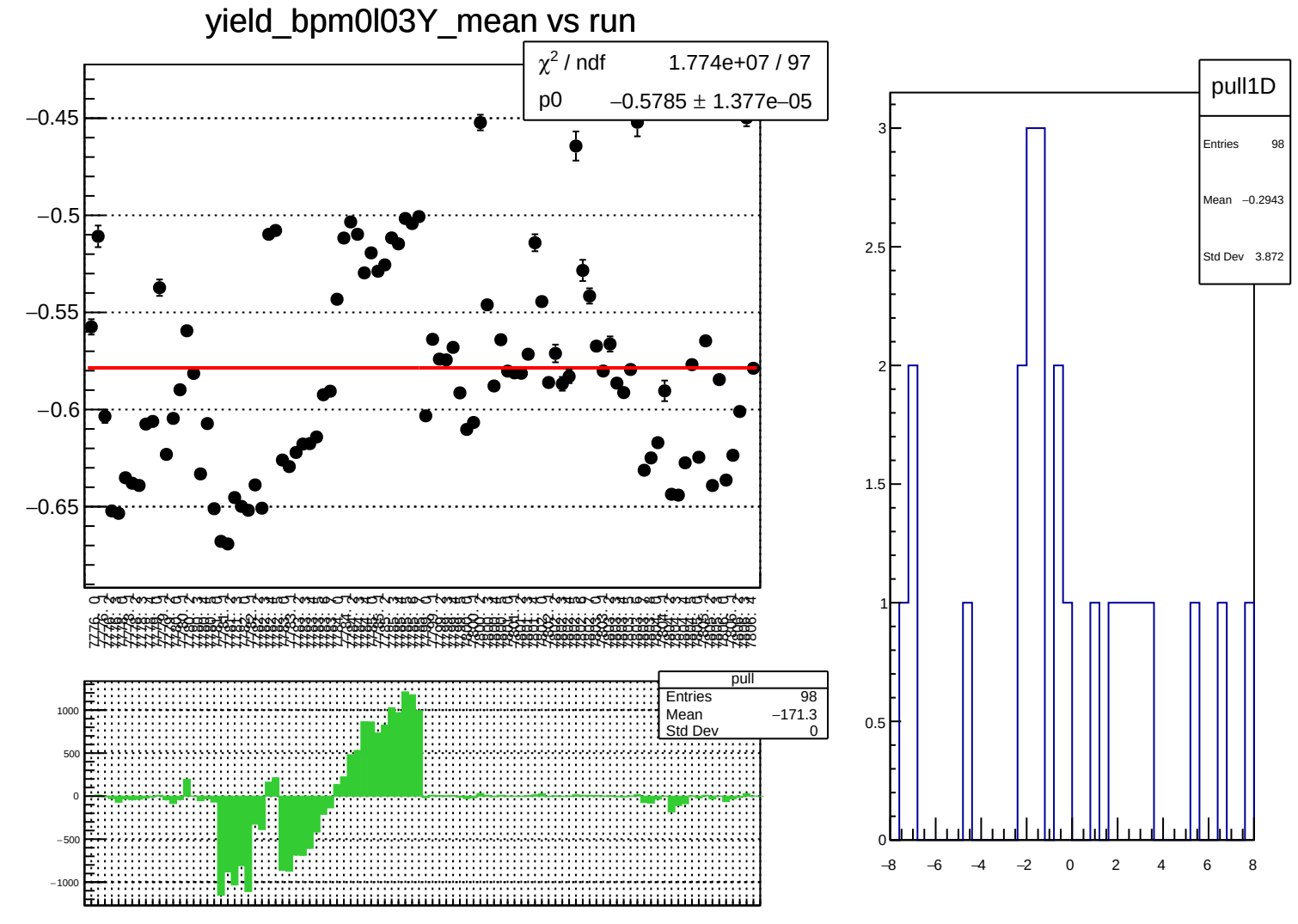

pull1D
Entries 98
Mean −0.1117
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

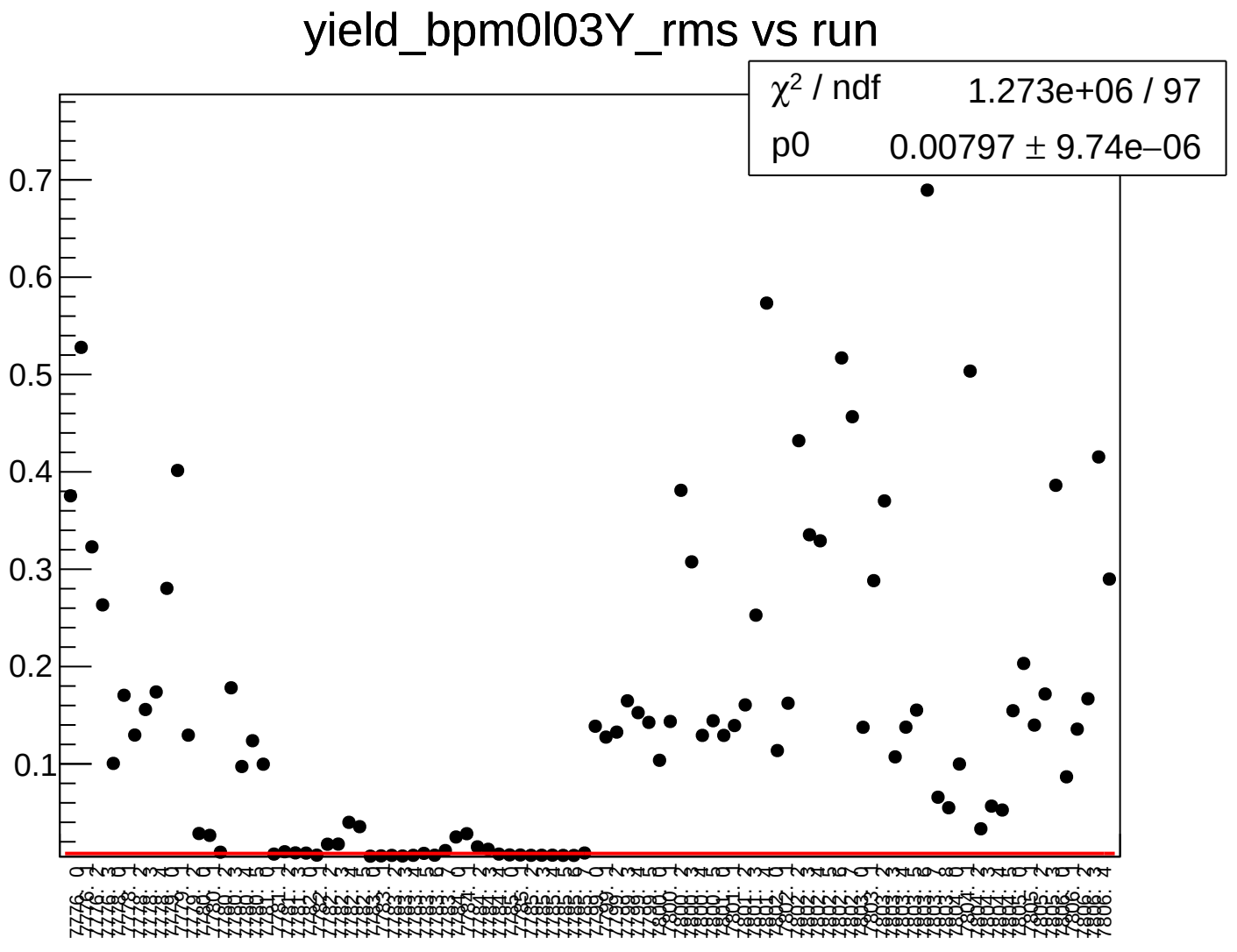

yield_bpm0l02Y_rms vs run
χ² / ndf 9.469e+04 / 97
p0 0.01172 ± 8.62e−06
0.05
0.04
0.03
0.02
0.01

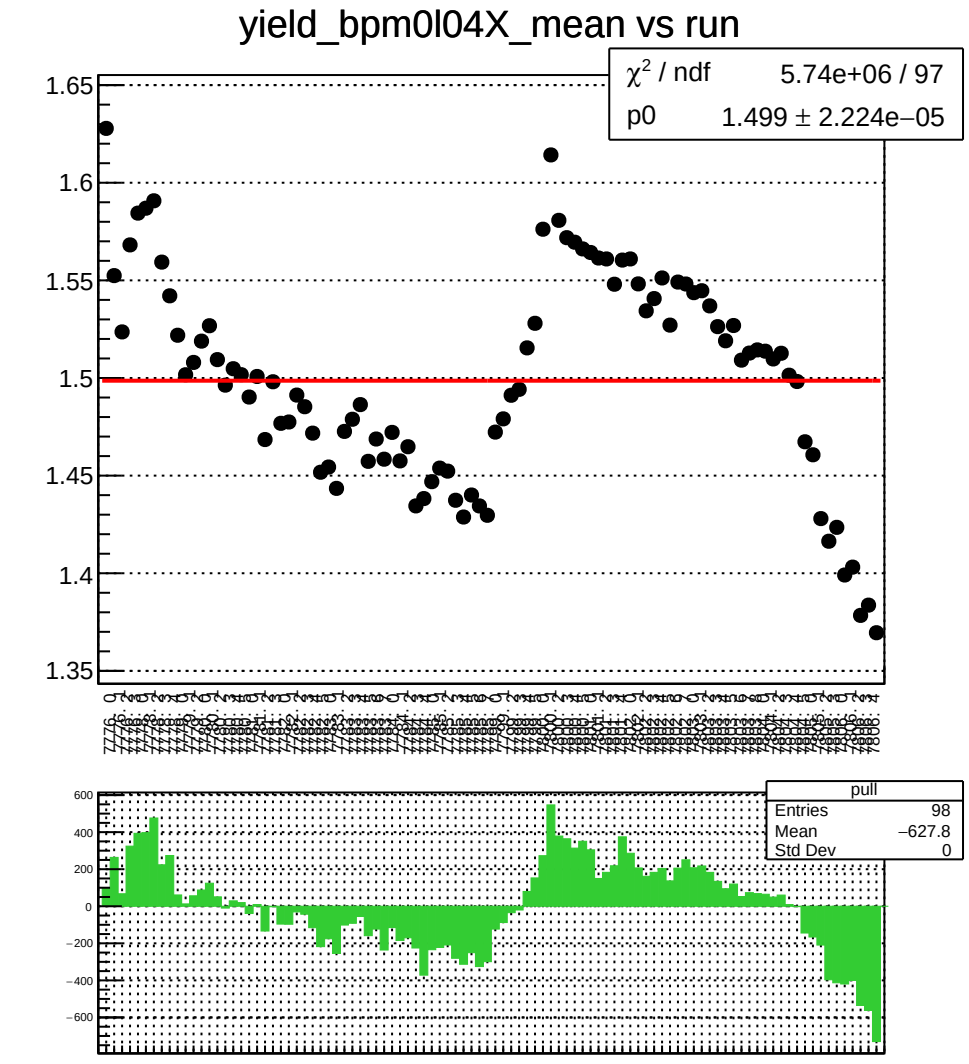

yield_bpm0l03X_mean vs run
χ² / ndf 1.839e+07 / 97
p0 −2.085 ± 1.104e−05
−1.9
−1.95
−2
−2.05
−2.1
−2.15
pull
Entries 98
Mean −616.6
Std Dev 0
1000
500
0
−500
−1000

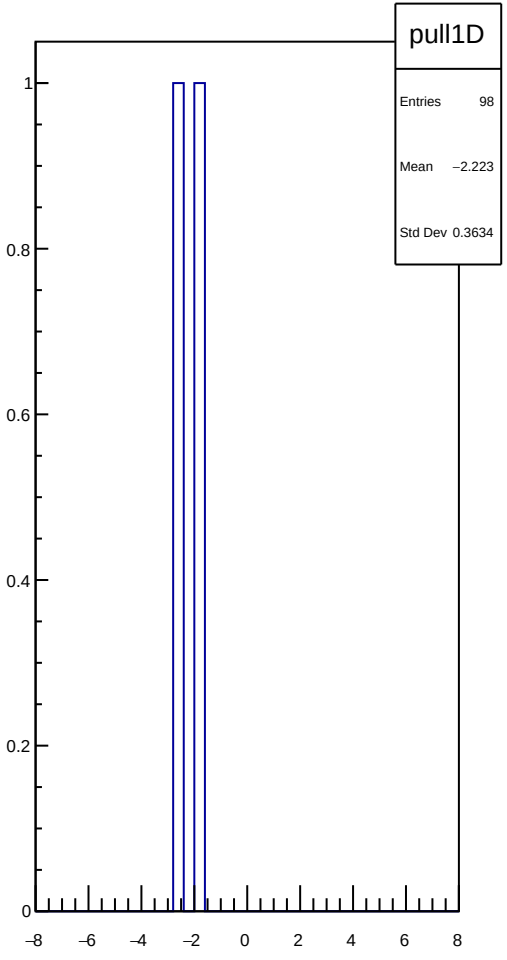

pull1D
Entries 98
Mean 0.8075
Std Dev 3.936
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

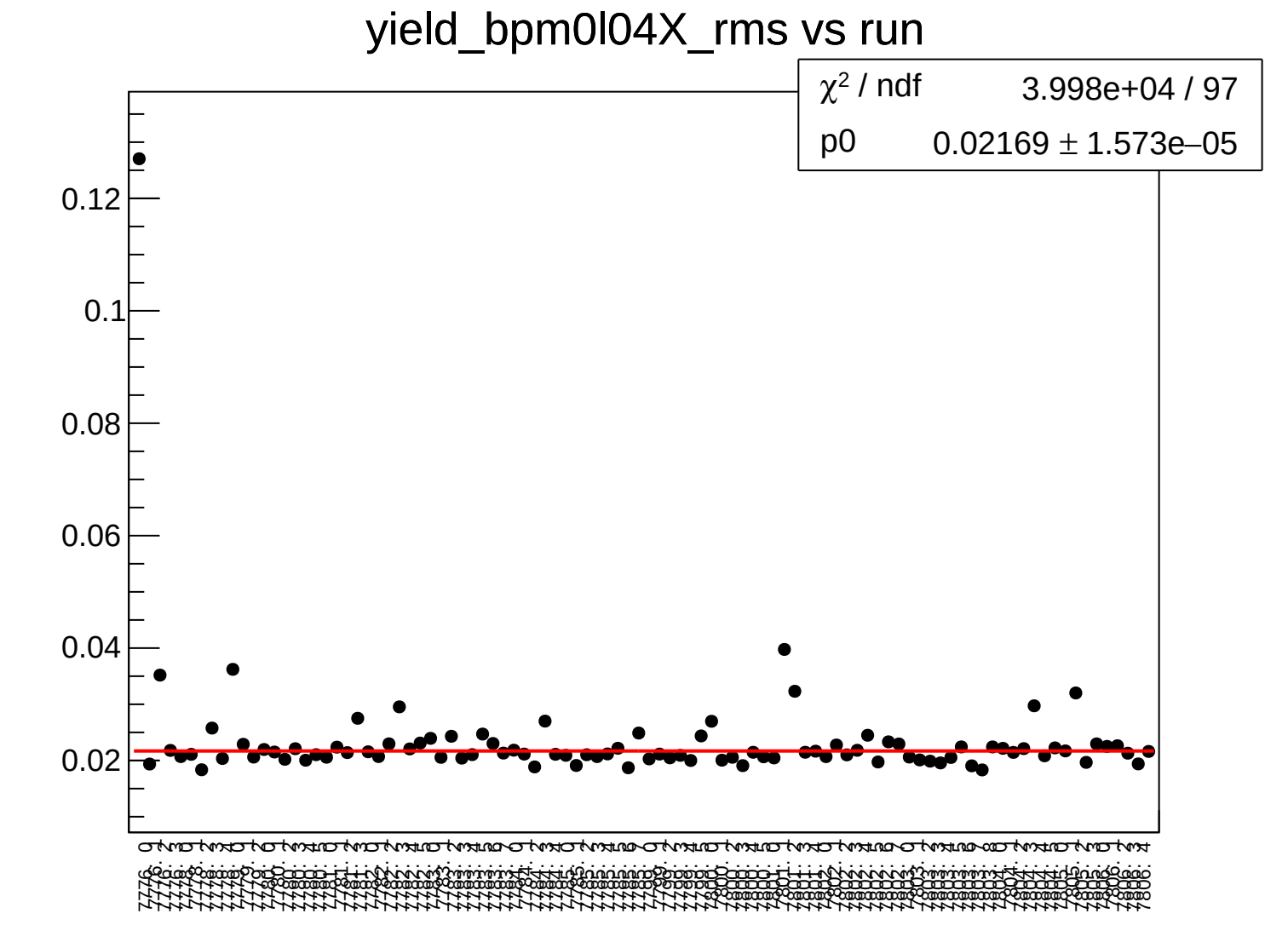

yield_bpm0l03X_rms vs run
χ² / ndf 1.332e+06 / 97
p0 0.006098 ± 7.805e−06
0.7
0.6
0.5
0.4
0.3
0.2
0.1

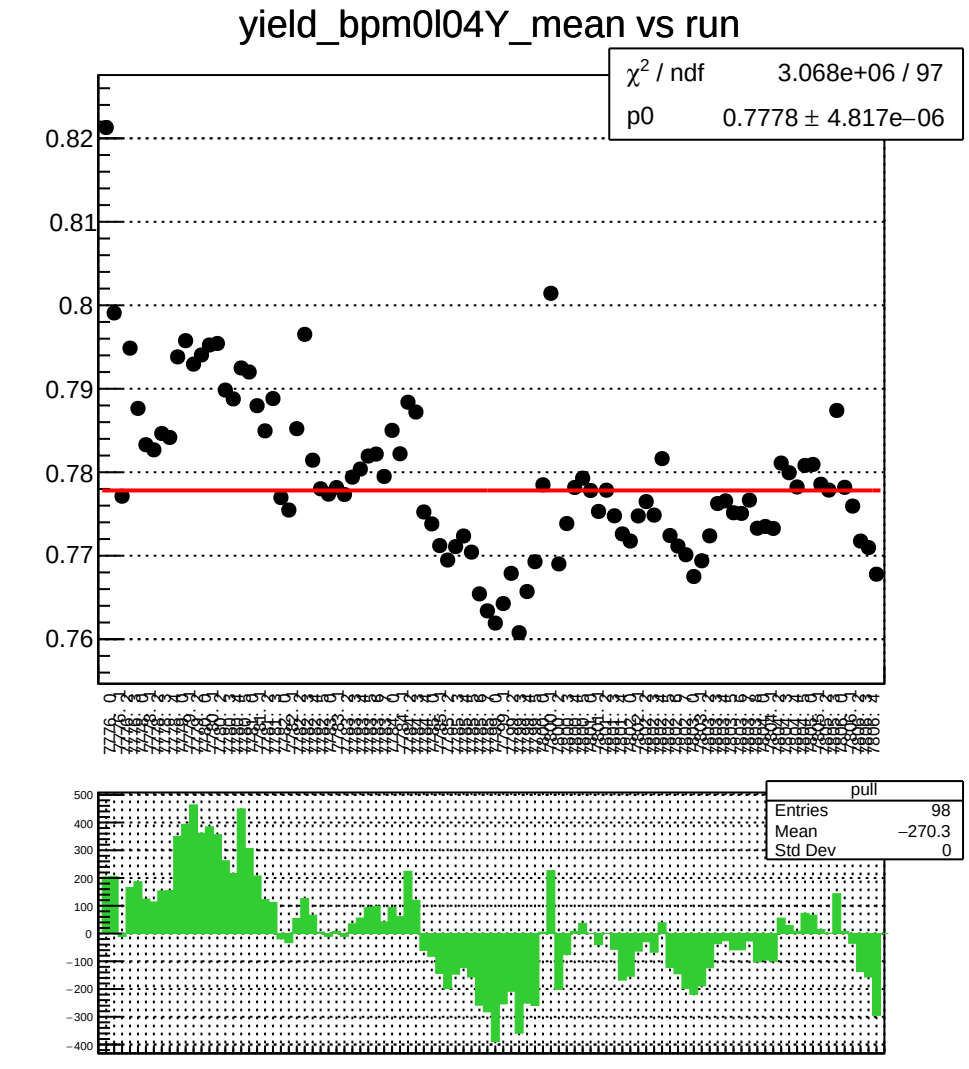

yield_bpm0l03Y_mean vs run
χ² / ndf 1.774e+07 / 97
p0 −0.5785 ± 1.377e−05
−0.45
−0.5
−0.55
−0.6
−0.65
pull
Entries 98
Mean −171.3
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 98
Mean −0.2943
Std Dev 3.872
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

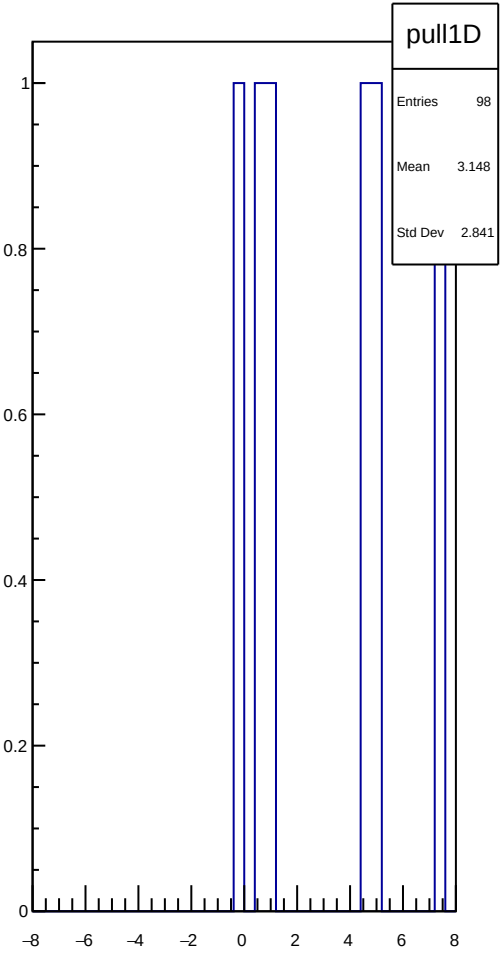

yield_bpm0l03Y_rms vs run
χ² / ndf 1.273e+06 / 97
p0 0.00797 ± 9.74e−06
0.7
0.6
0.5
0.4
0.3
0.2
0.1

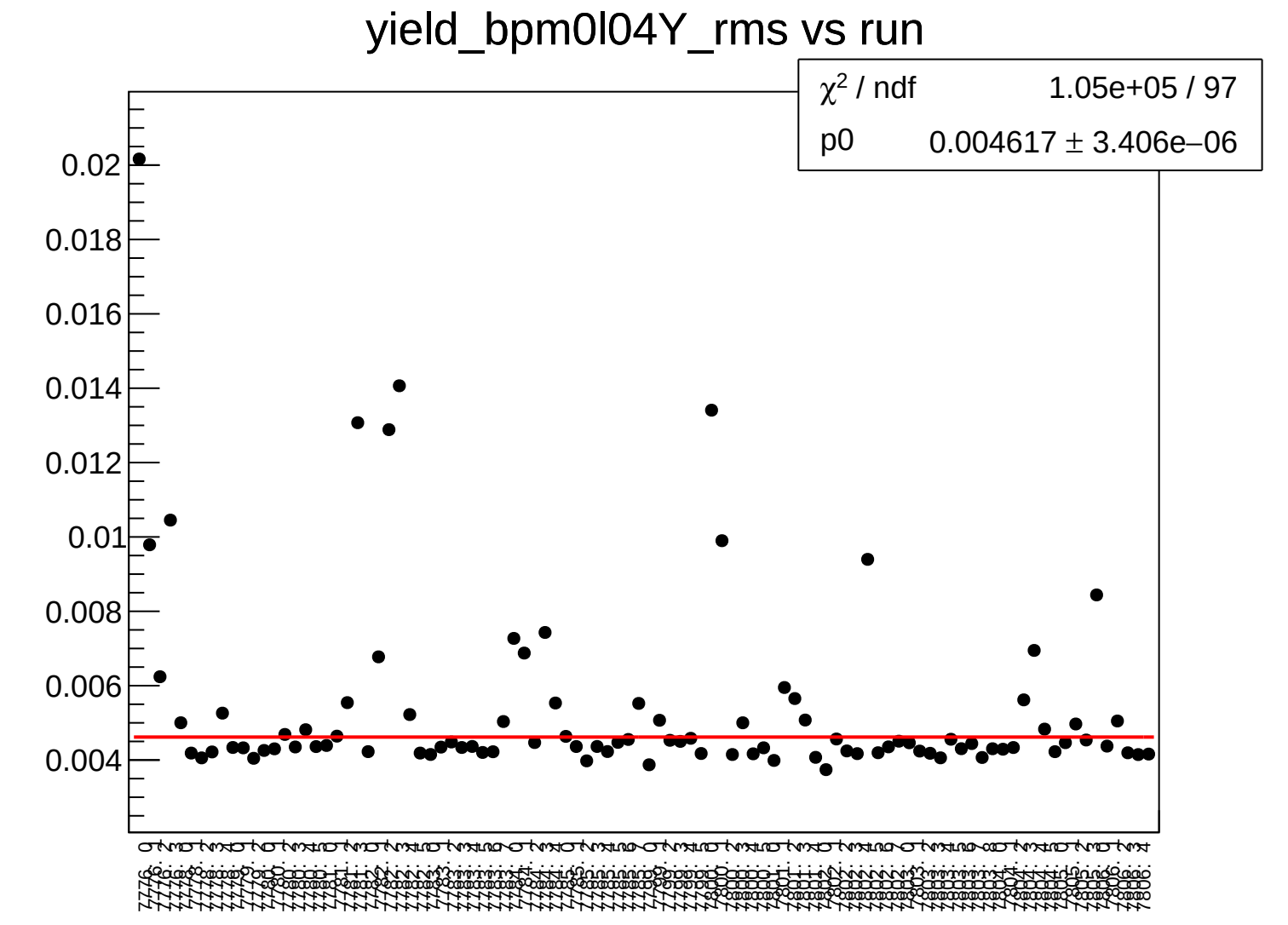

yield_bpm0l04X_mean vs run
χ² / ndf 5.74e+06 / 97
p0 1.499 ± 2.224e−05
1.65
1.6
1.55
1.5
1.45
1.4
1.35
pull
Entries 98
Mean −627.8
Std Dev 0
600
400
200
0
−200
−400
−600

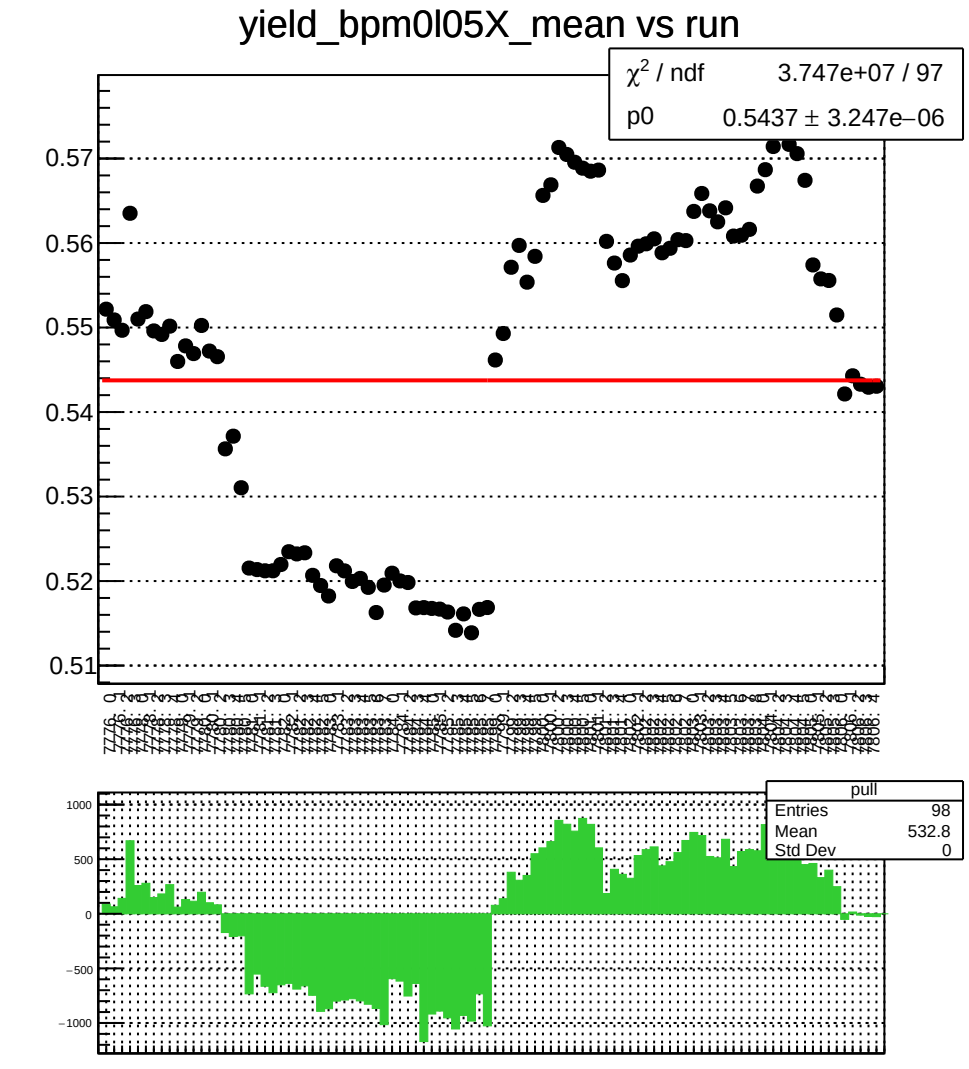

pull1D
Entries 98
Mean −2.223
Std Dev 0.3634
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

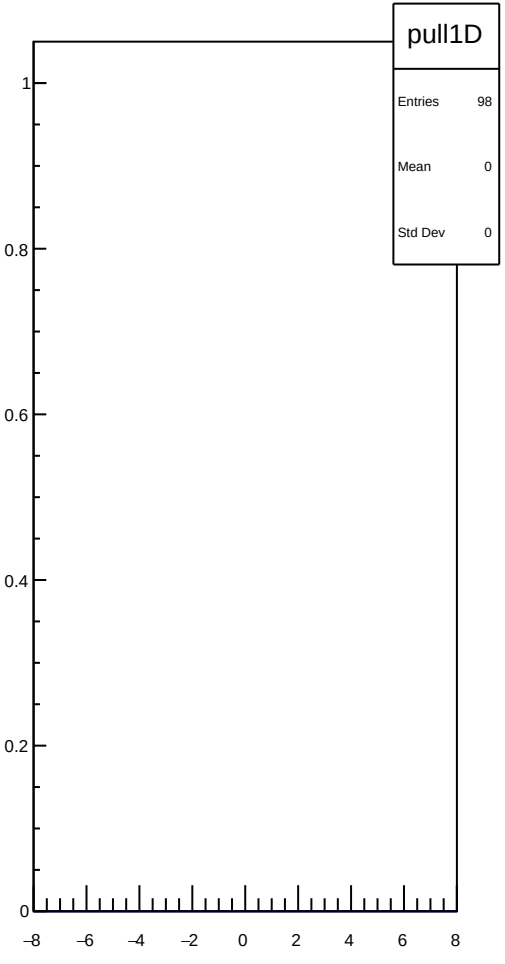

yield_bpm0l04X_rms vs run
χ² / ndf 3.998e+04 / 97
p0 0.02169 ± 1.573e–05
0.12
0.1
0.08
0.06
0.04
0.02

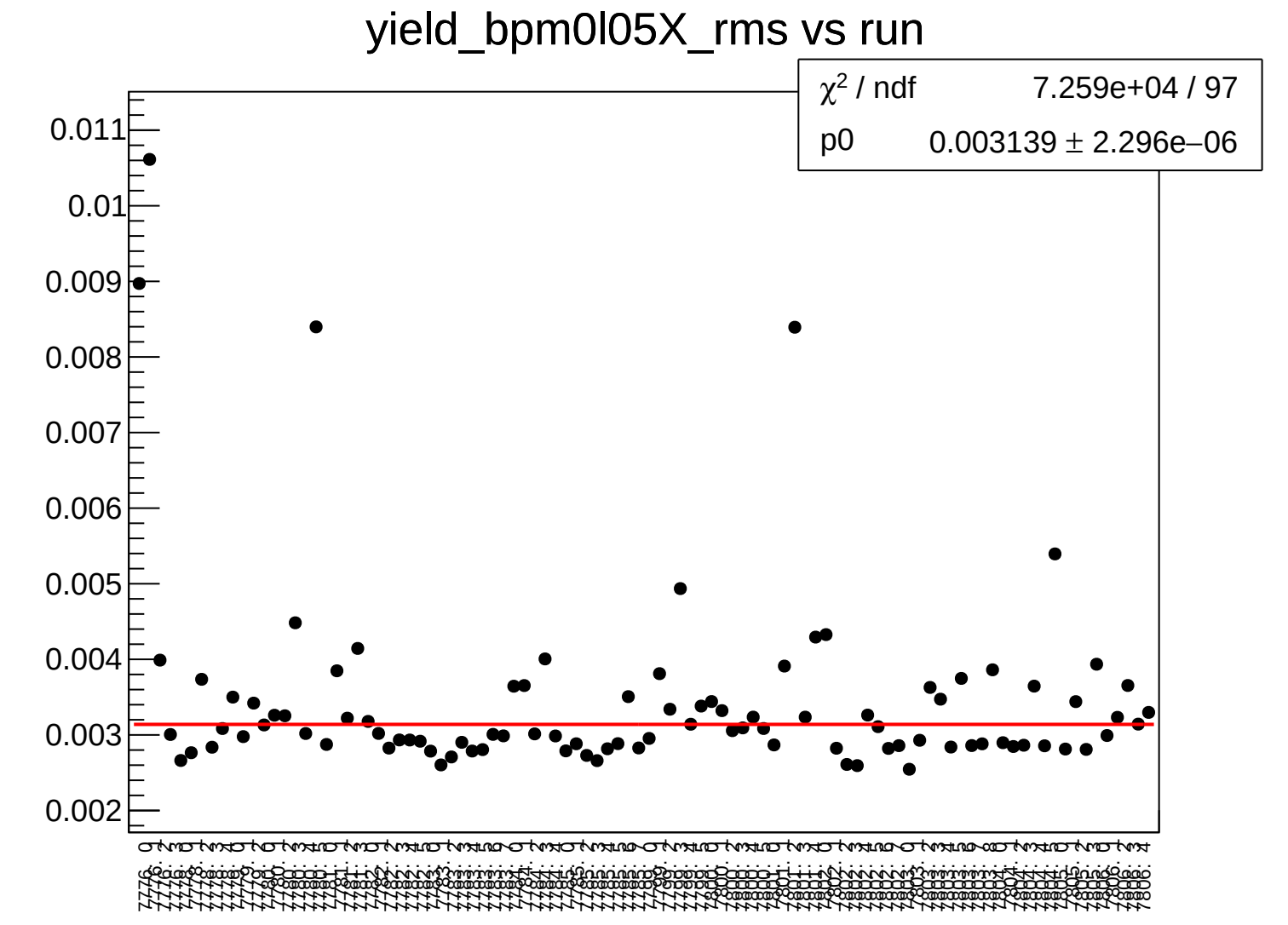

yield_bpm0l04Y_mean vs run
χ² / ndf 3.068e+06 / 97
p0 0.7778 ± 4.817e−06
0.82
0.81
0.8
0.79
0.78
0.77
0.76
pull
Entries 98
Mean −270.3
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

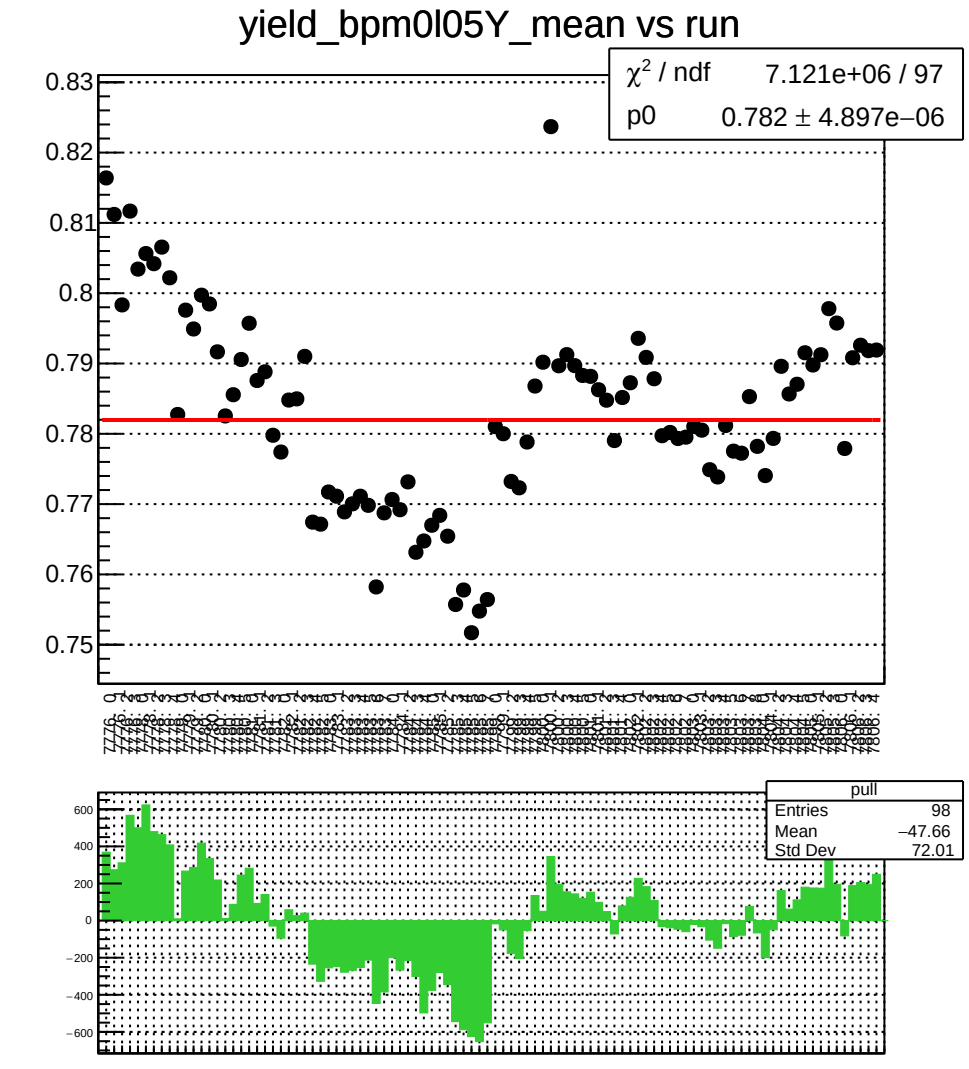

pull1D
Entries 98
Mean 3.148
Std Dev 2.841
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

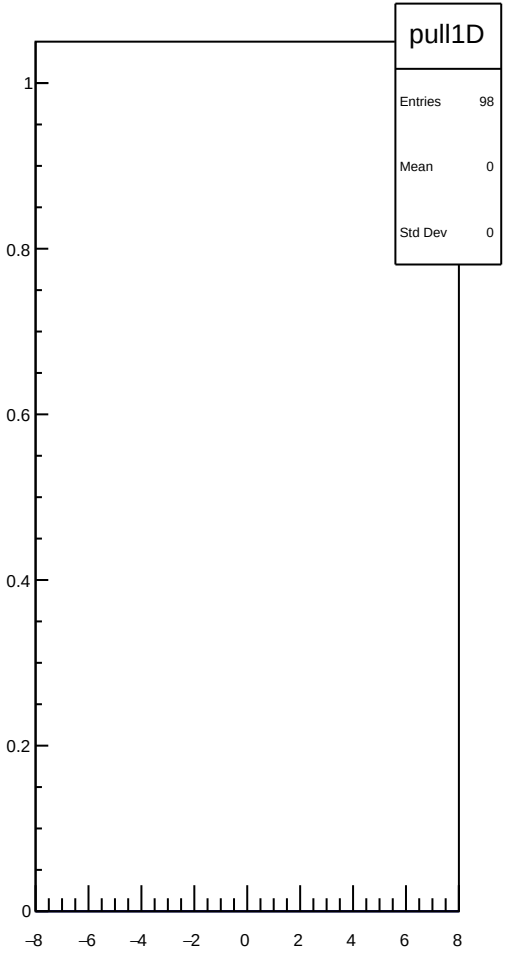

yield_bpm0l04Y_rms vs run
χ^2 / ndf 1.05e+05 / 97
p0 0.004617 ± 3.406e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

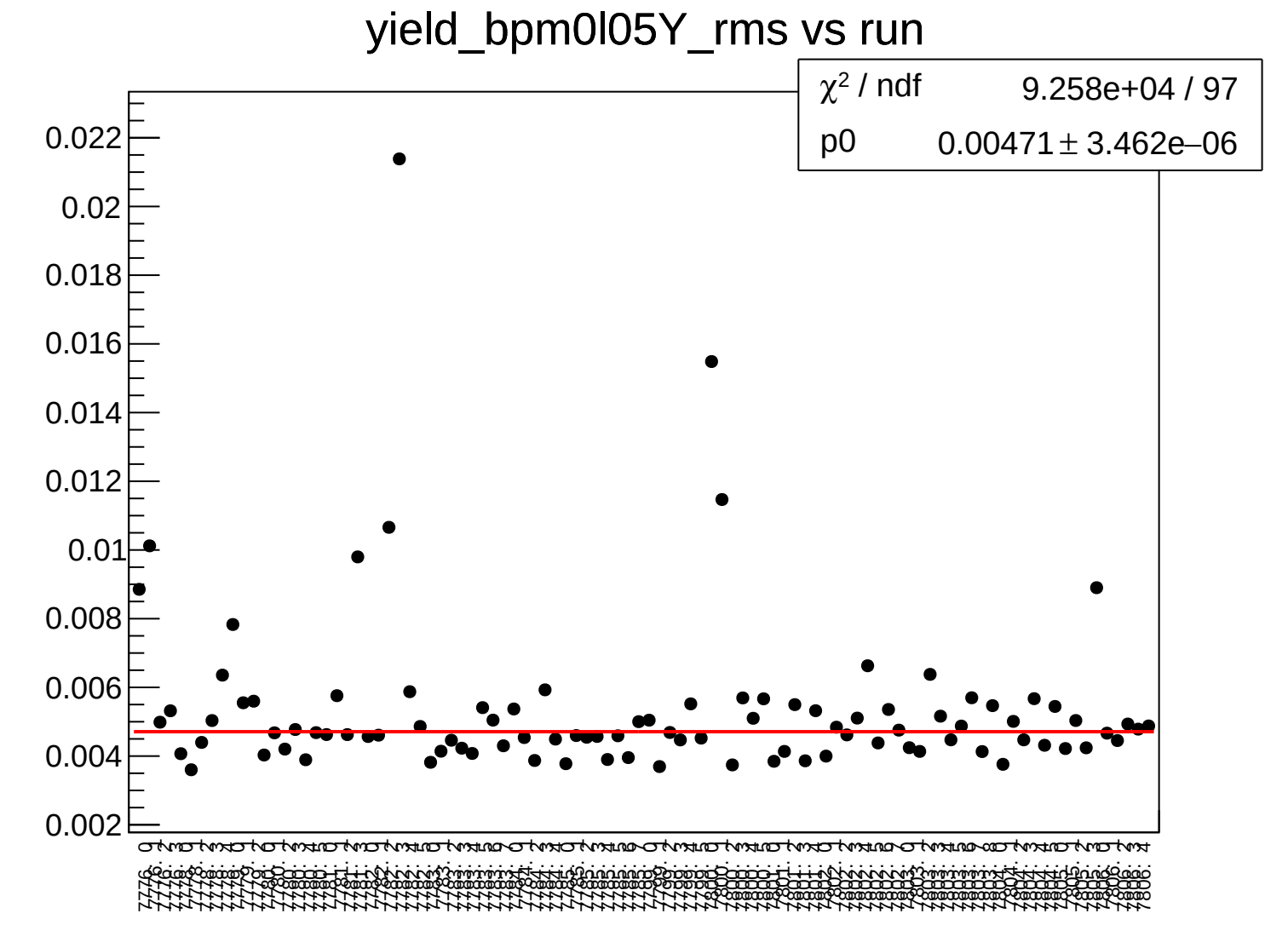

yield_bpm0l05X_mean vs run
χ² / ndf 3.747e+07 / 97
p0 0.5437 ± 3.247e−06
0.57
0.56
0.55
0.54
0.53
0.52
0.51
pull
Entries 98
Mean 532.8
Std Dev 0
1000
500
0
−500
−1000

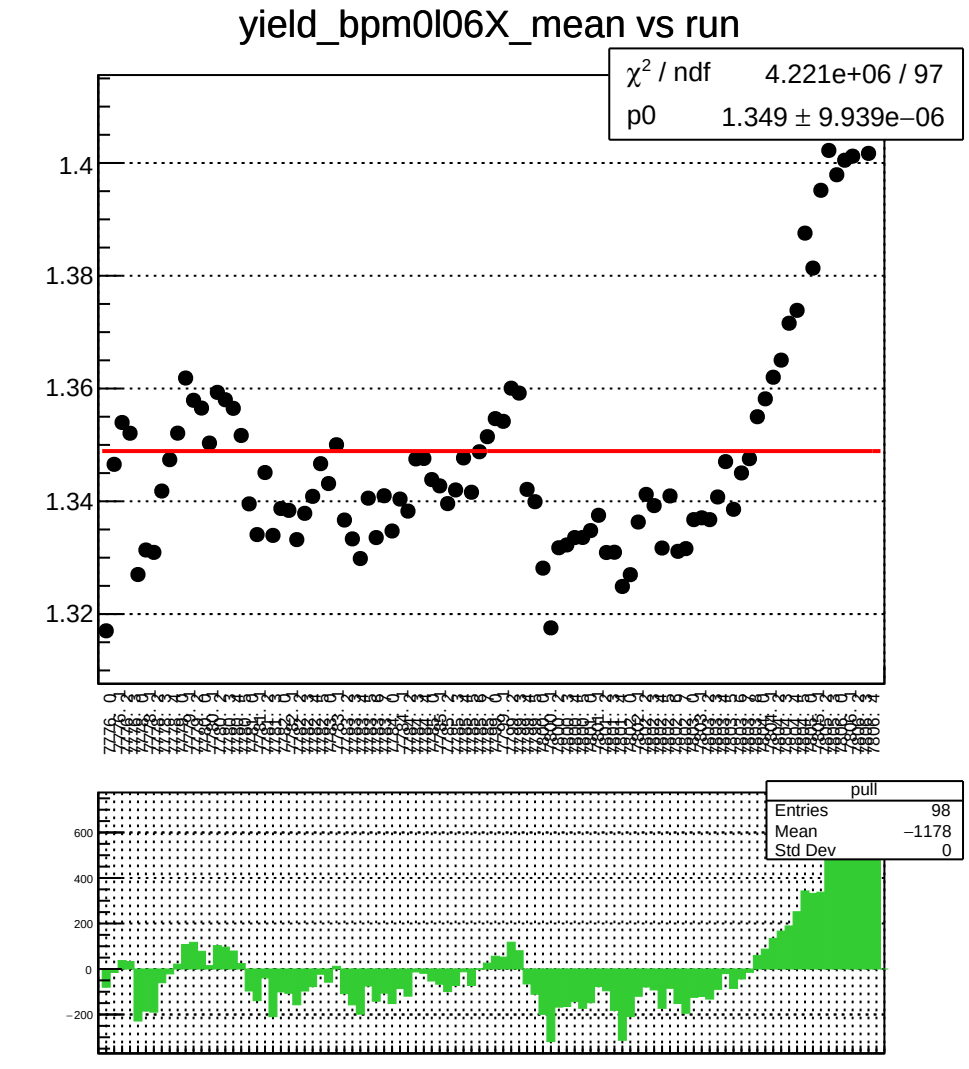

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

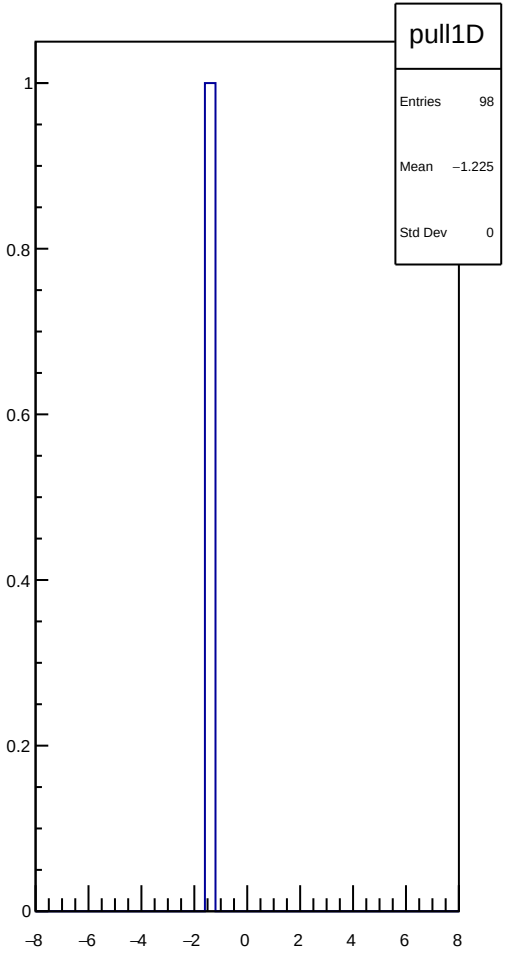

yield_bpm0l05X_rms vs run
χ² / ndf 7.259e+04 / 97
p0 0.003139 ± 2.296e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

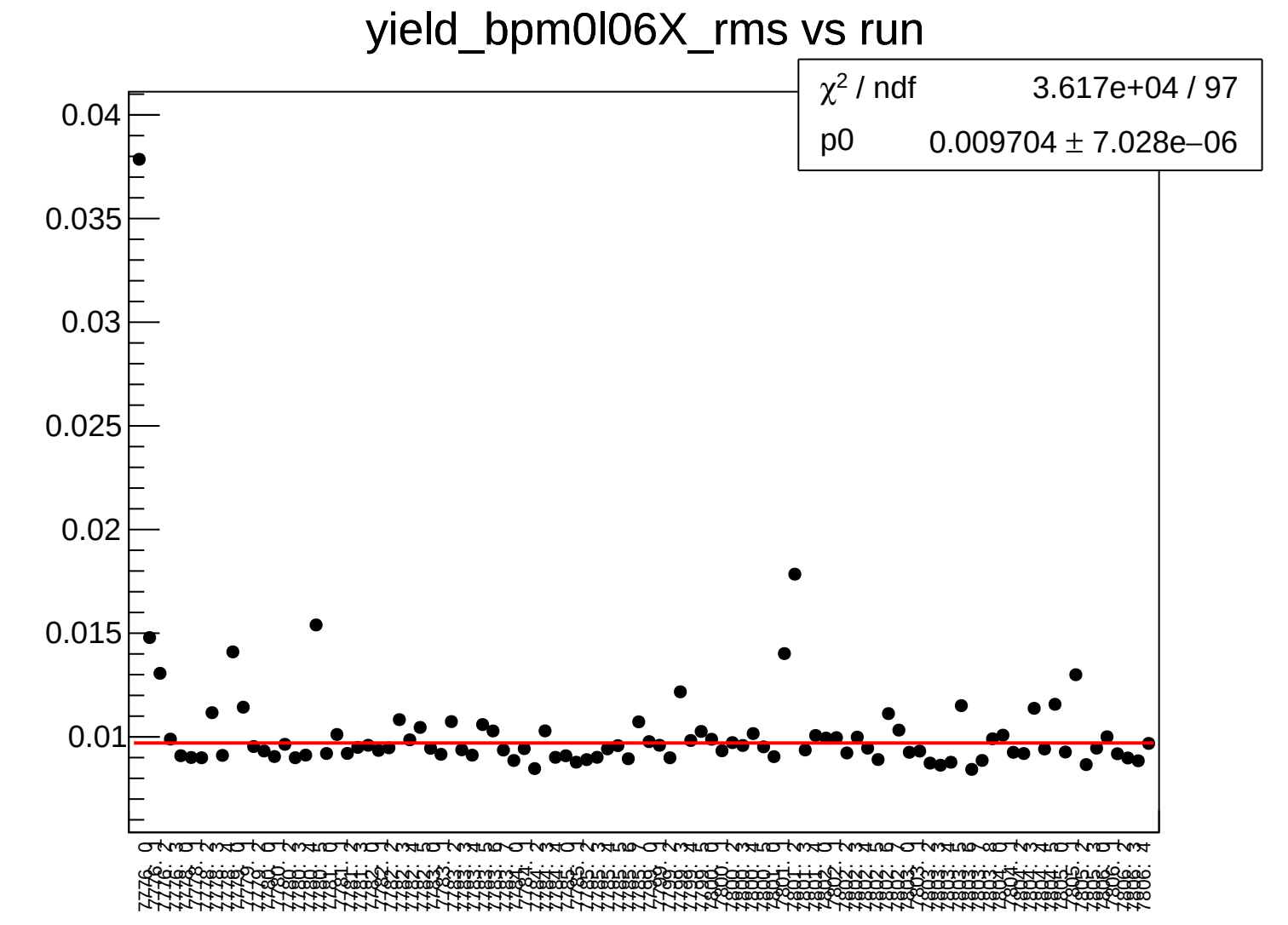

yield_bpm0l05Y_mean vs run
χ² / ndf 7.121e+06 / 97
p0 0.782 ± 4.897e−06
0.83
0.82
0.81
0.8
0.79
0.78
0.77
0.76
0.75
pull
Entries 98
Mean −47.66
Std Dev 72.01
600
400
200
0
−200
−400
−600

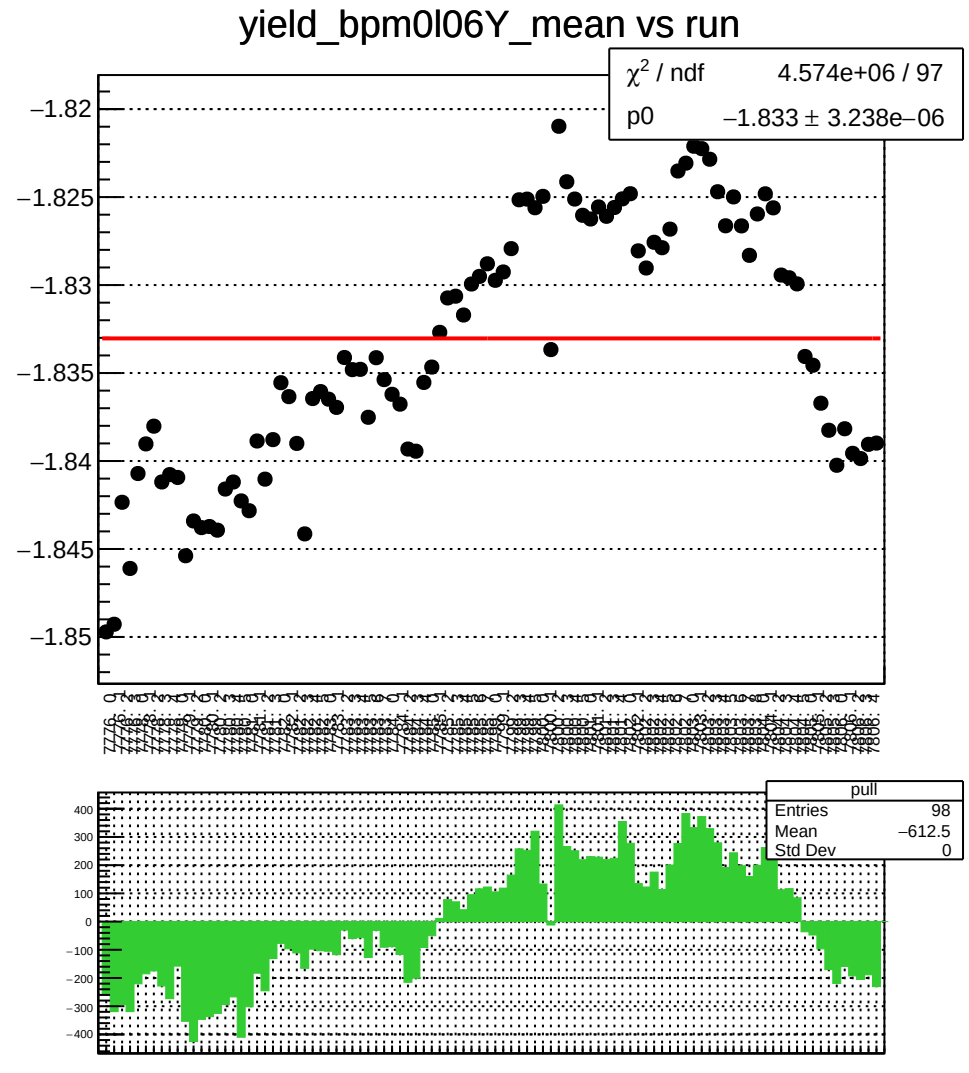

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

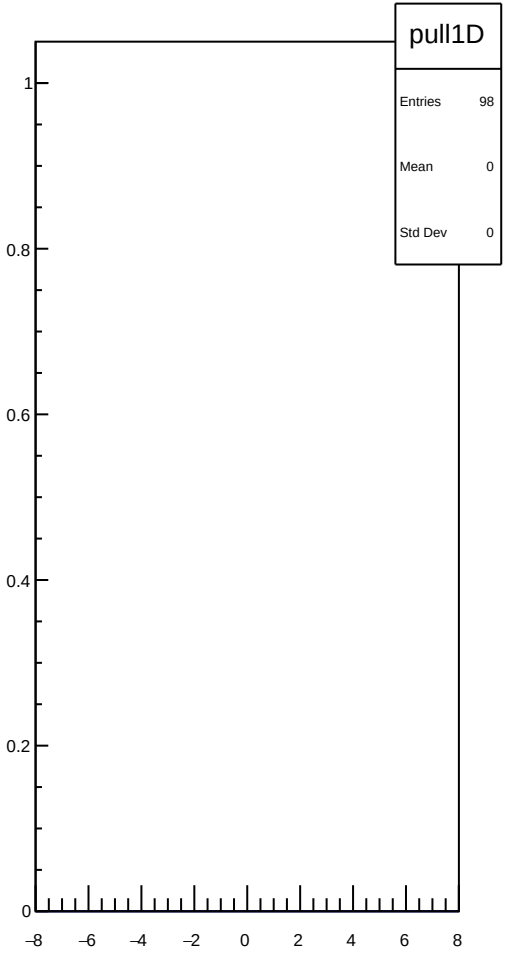

yield_bpm0l05Y_rms vs run
χ^2 / ndf 9.258e+04 / 97
p0 0.00471 ± 3.462e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

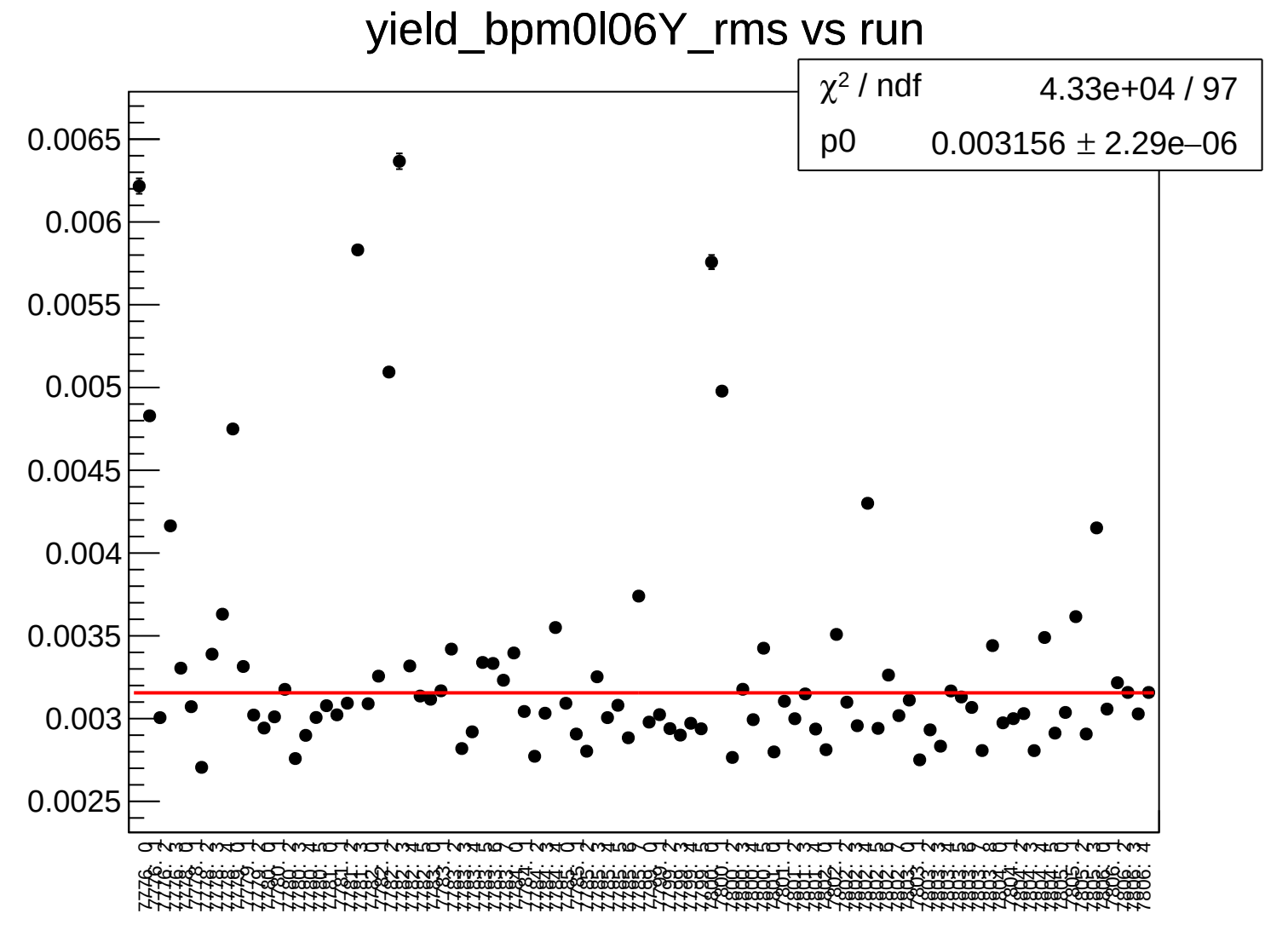

yield_bpm0l06X_mean vs run
χ² / ndf 4.221e+06 / 97
p0 1.349 ± 9.939e−06
1.4
1.38
1.36
1.34
1.32
pull
Entries 98
Mean −1178
Std Dev 0
600
400
200
0
−200

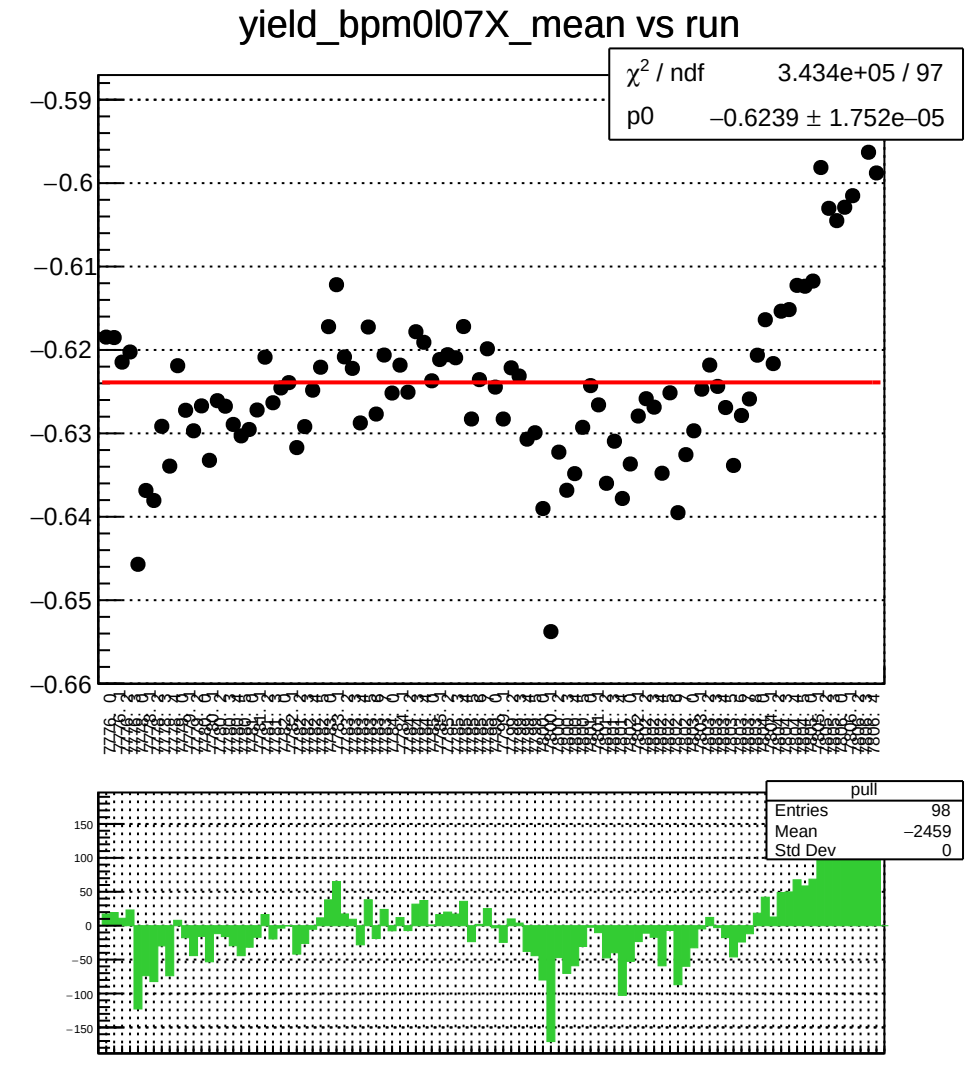

pull1D
Entries 98
Mean −1.225
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

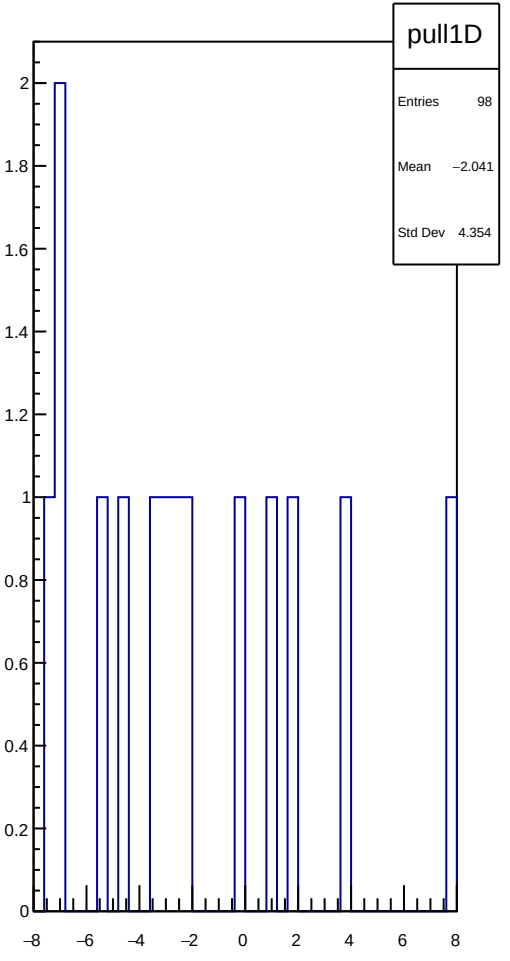

yield_bpm0l06X_rms vs run
χ² / ndf 3.617e+04 / 97
p0 0.009704 ± 7.028e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

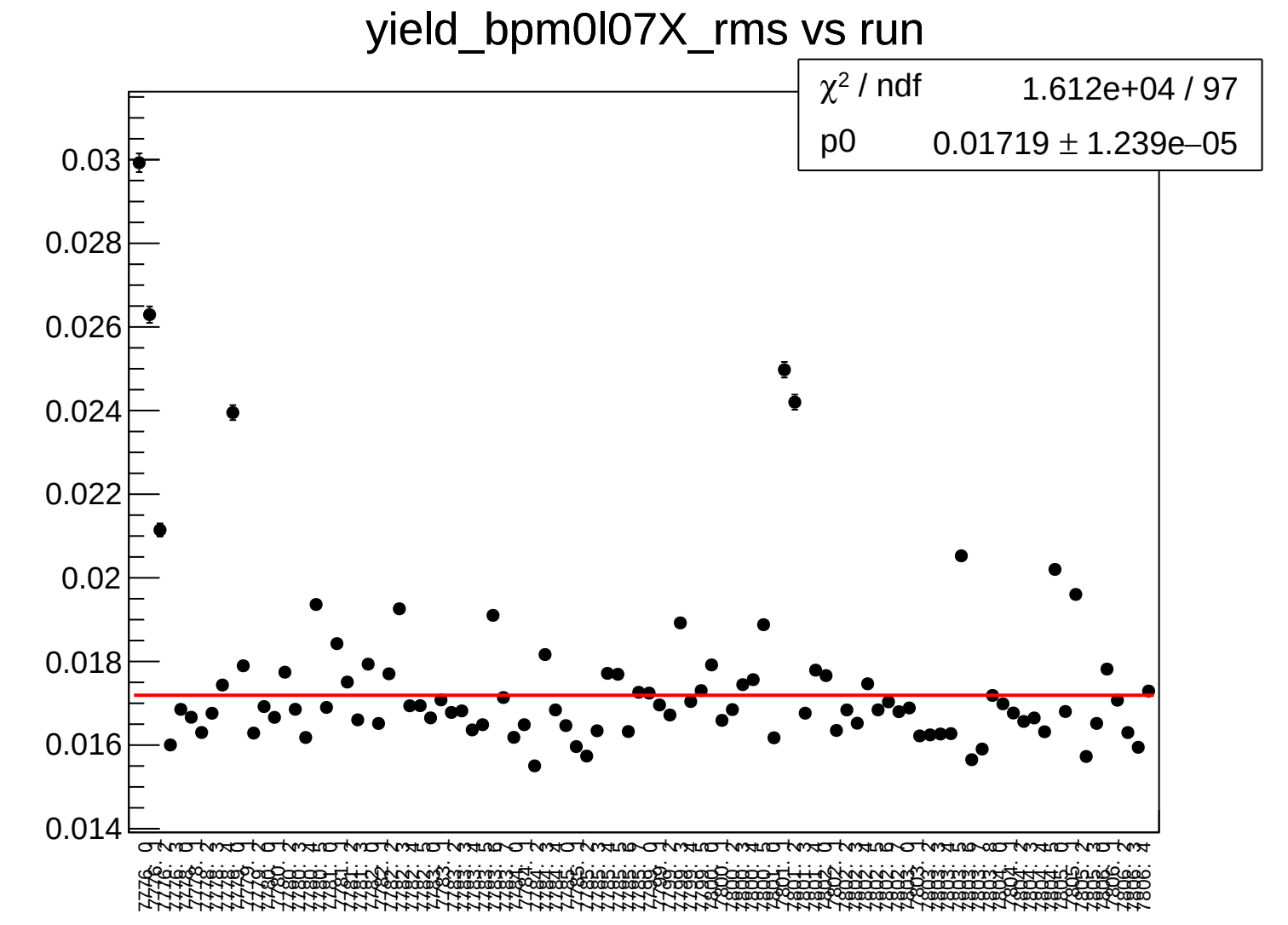

yield_bpm0l06Y_mean vs run
χ² / ndf 4.574e+06 / 97
p0 −1.833 ± 3.238e−06
−1.82
−1.825
−1.83
−1.835
−1.84
−1.845
−1.85
pull
Entries 98
Mean −612.5
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

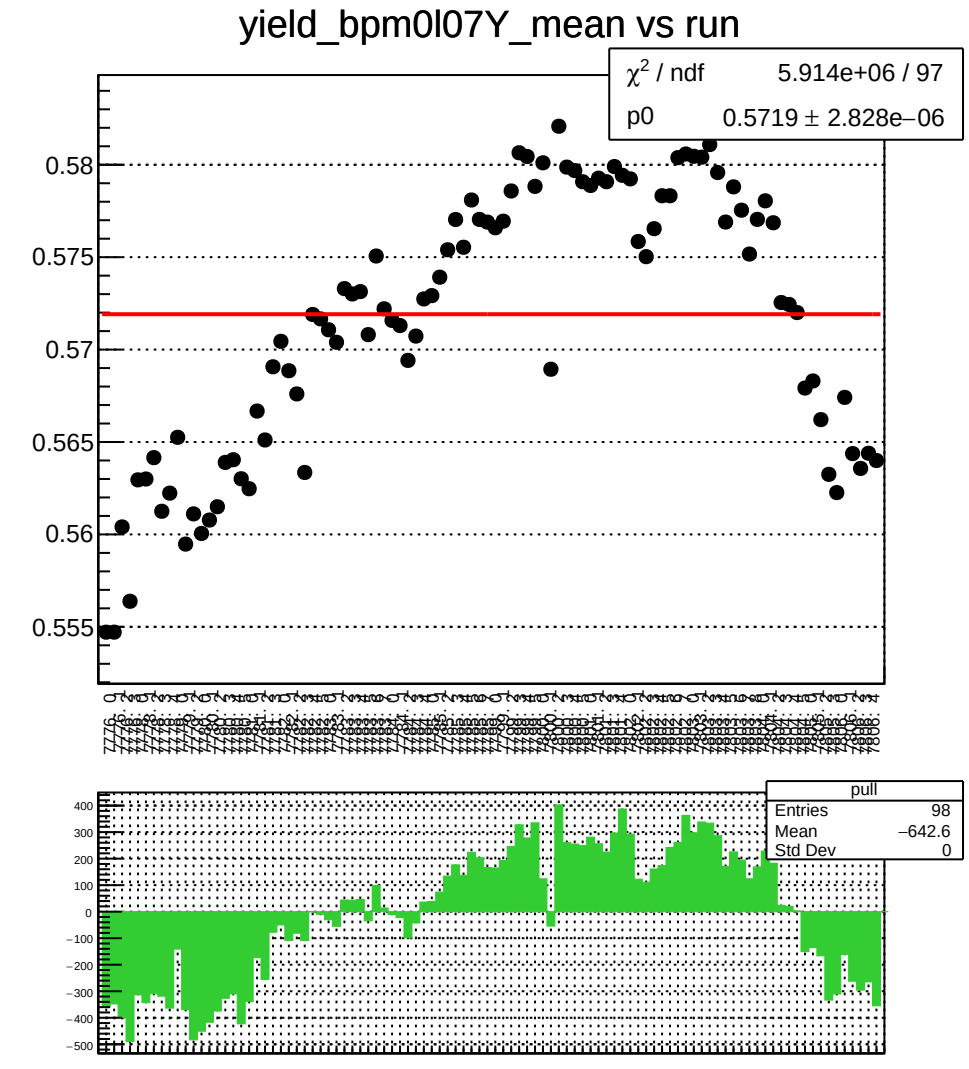

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

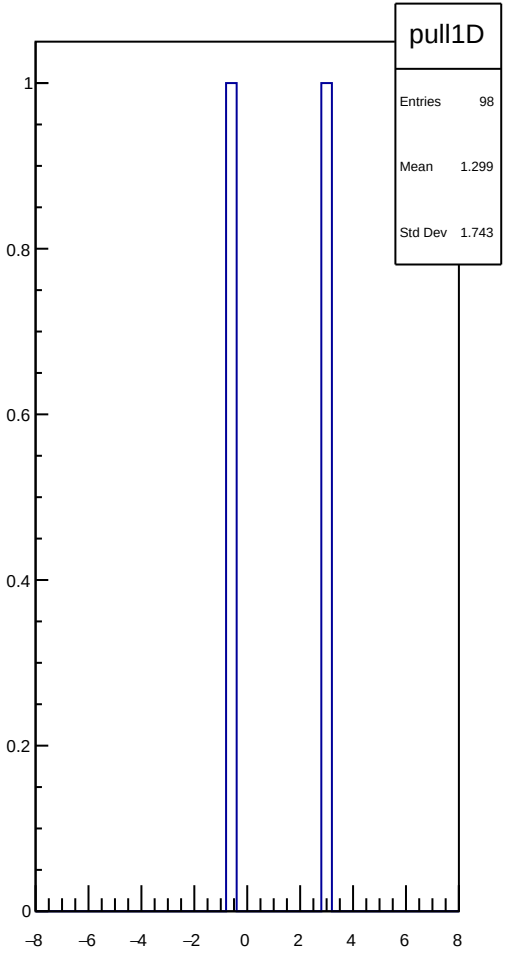

yield_bpm0l06Y_rms vs run
χ² / ndf 4.33e+04 / 97
p0 0.003156 ± 2.29e–06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

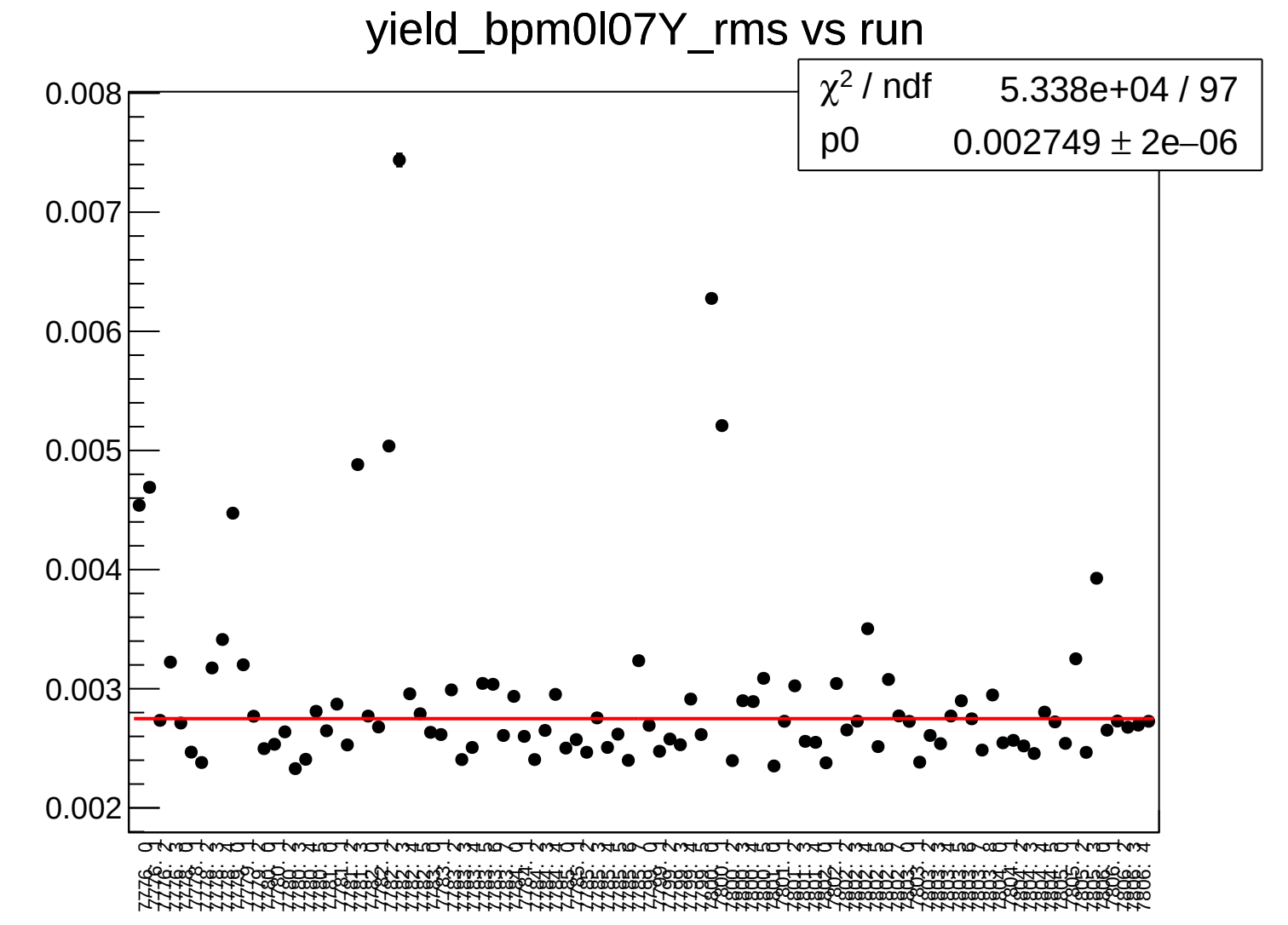

yield_bpm0l07X_mean vs run
χ² / ndf 3.434e+05 / 97
p0 −0.6239 ± 1.752e−05
−0.59
−0.6
−0.61
−0.62
−0.63
−0.64
−0.65
−0.66
pull
Entries 98
Mean −2459
Std Dev 0
150
100
50
0
−50
−100
−150

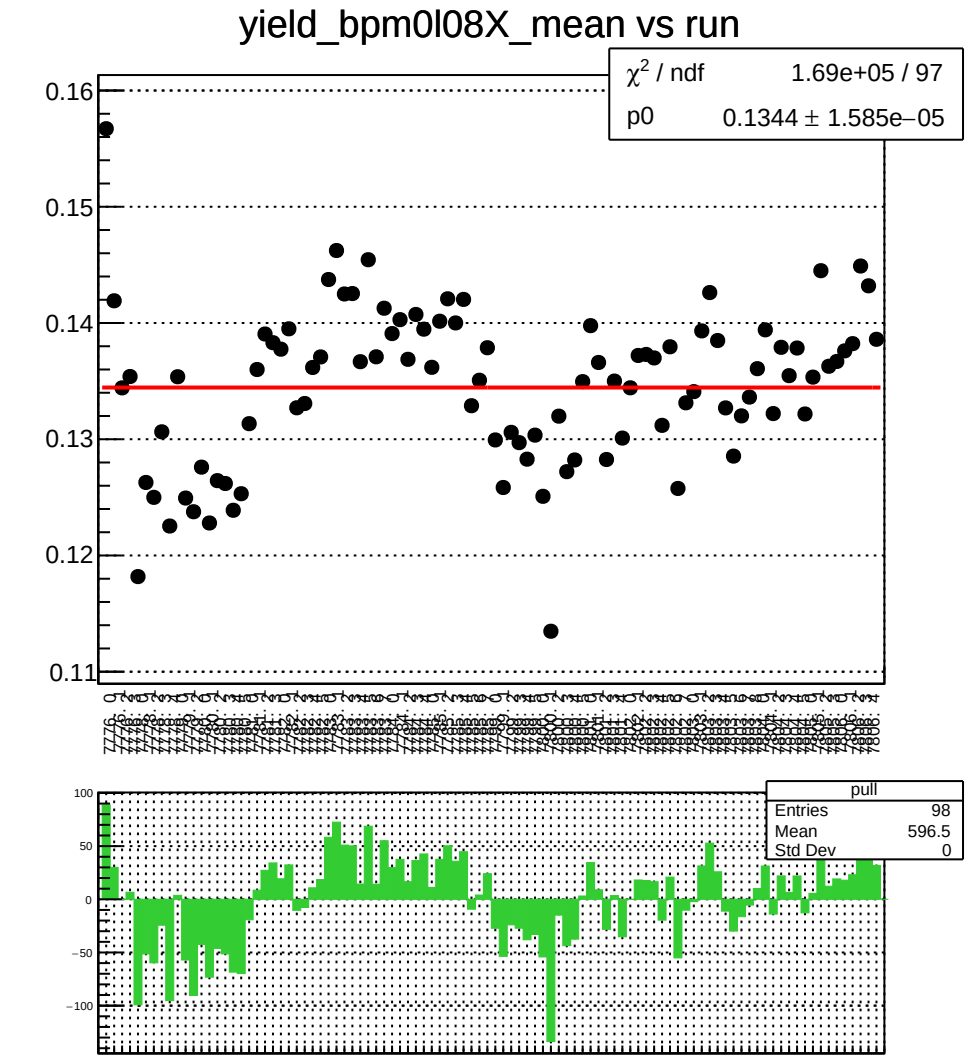

pull1D
Entries 98
Mean −2.041
Std Dev 4.354
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

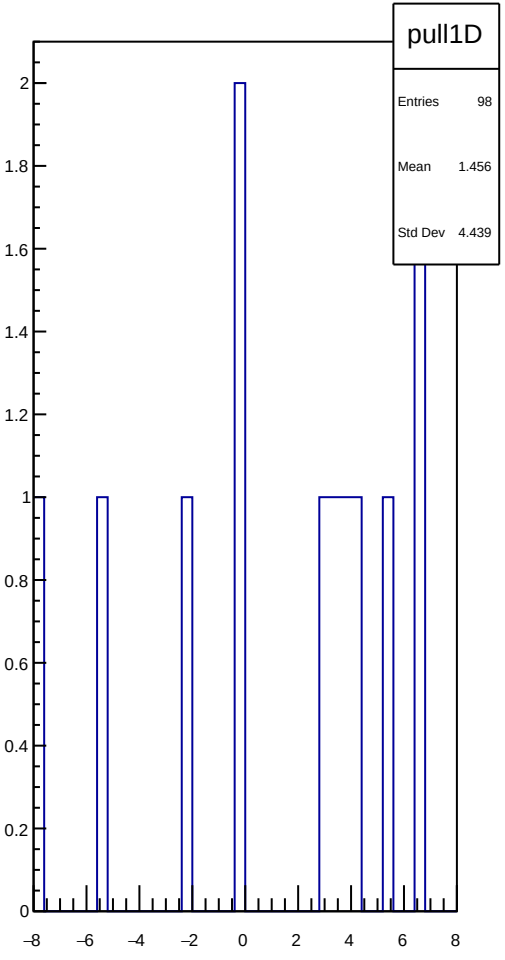

yield_bpm0l07X_rms vs run
χ² / ndf 1.612e+04 / 97
p0 0.01719 ± 1.239e–05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

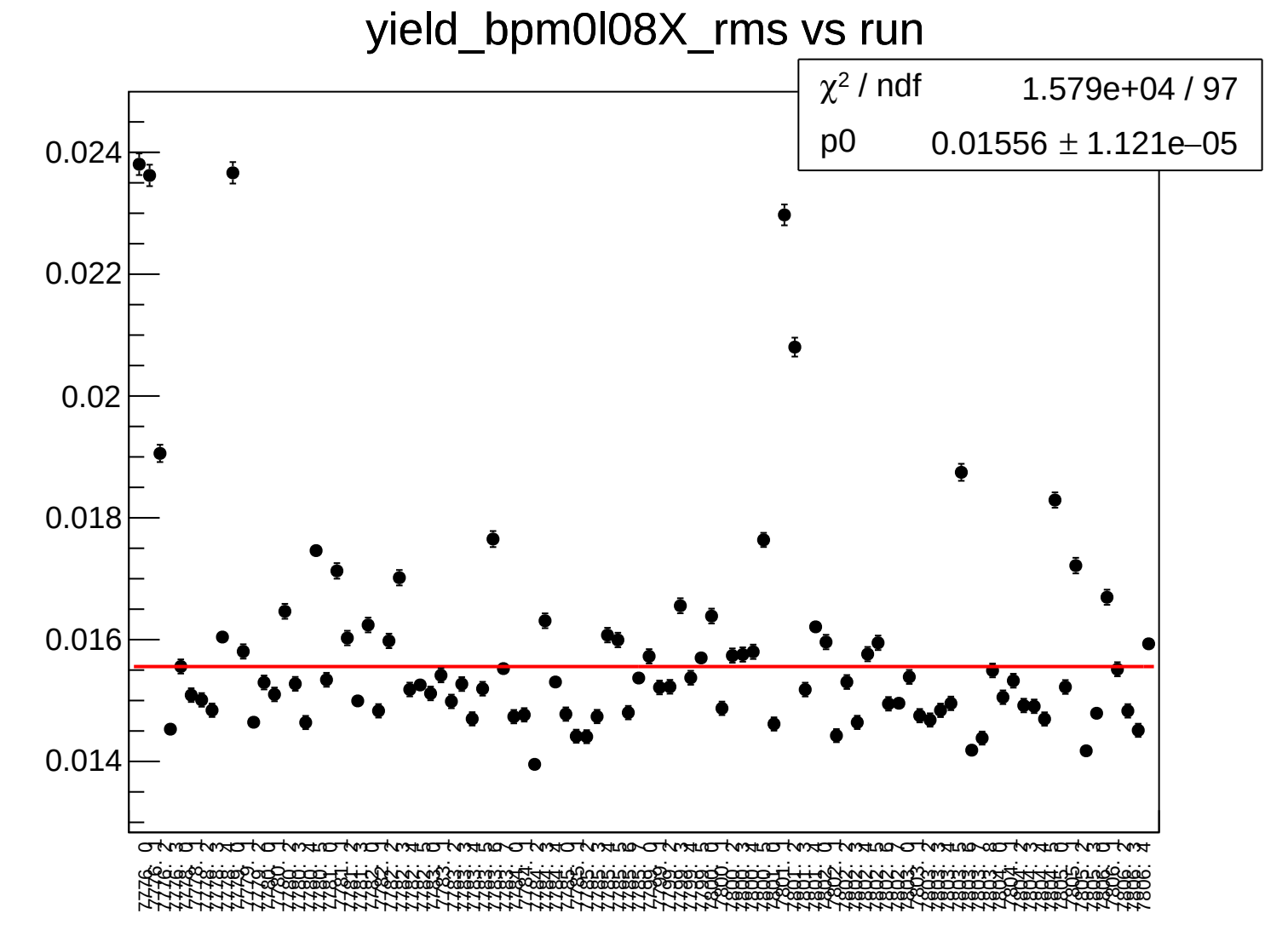

yield_bpm0l07Y_mean vs run
χ² / ndf 5.914e+06 / 97
p0 0.5719 ± 2.828e−06
0.58
0.575
0.57
0.565
0.56
0.555
pull
Entries 98
Mean −642.6
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

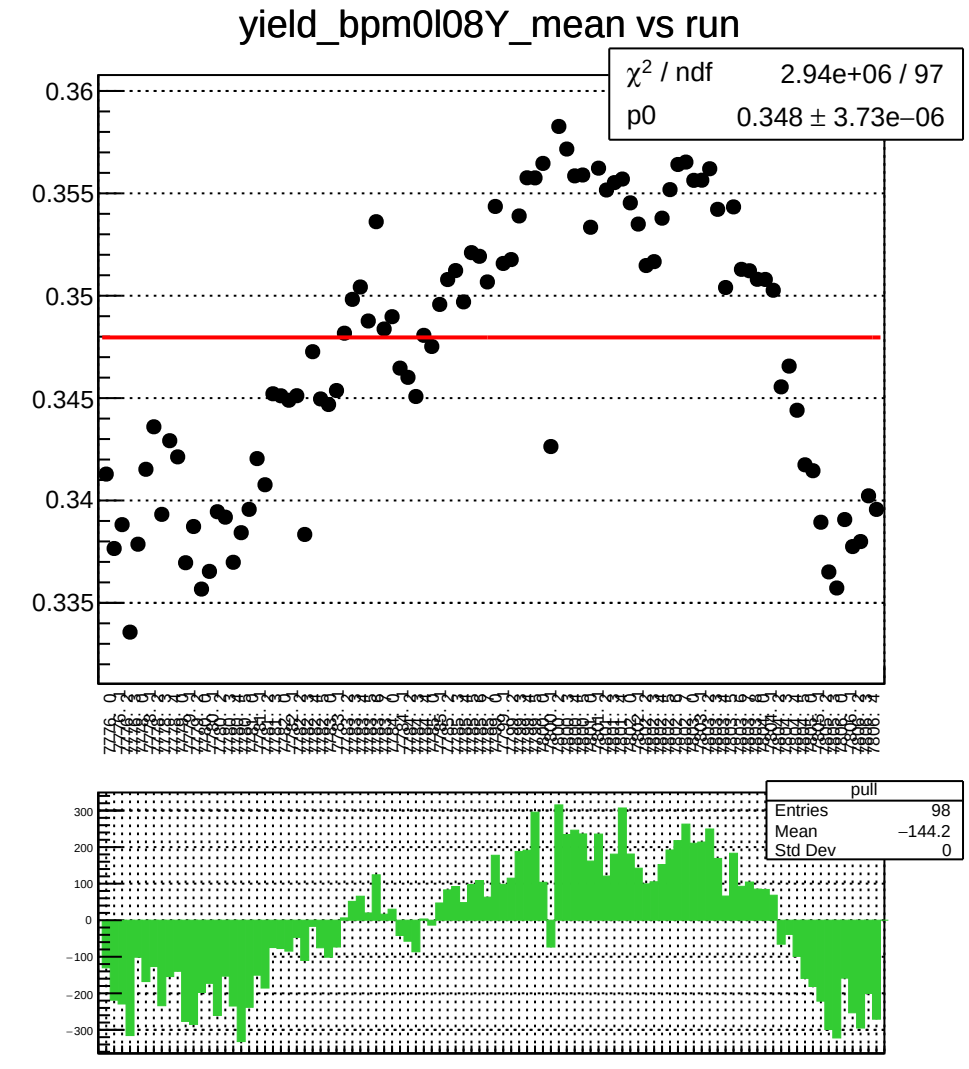

pull1D
Entries 98
Mean 1.299
Std Dev 1.743
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

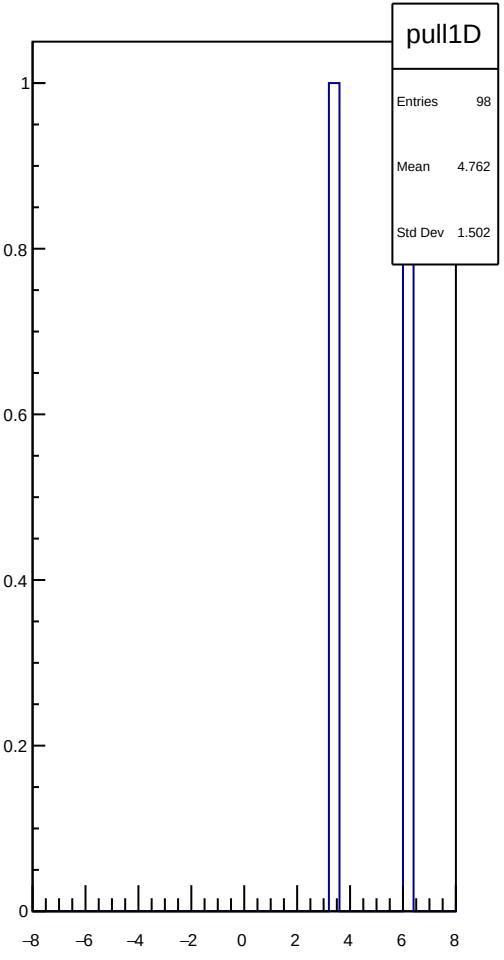

yield_bpm0l07Y_rms vs run
χ^2 / ndf 5.338e+04 / 97
p0 0.002749 ± 2e–06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

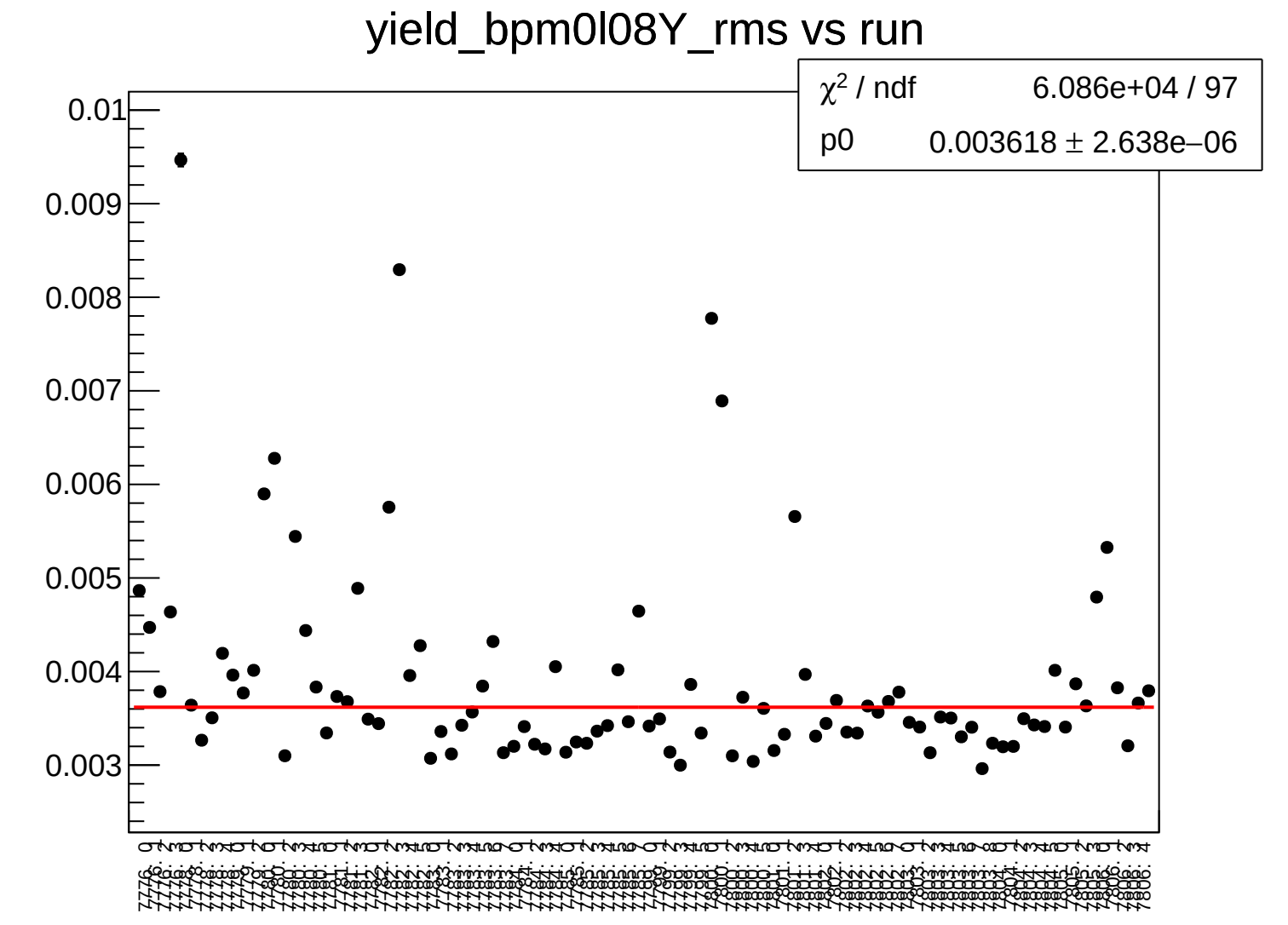

yield_bpm0l08X_mean vs run
χ² / ndf 1.69e+05 / 97
p0 0.1344 ± 1.585e−05
0.16
0.15
0.14
0.13
0.12
0.11
pull
Entries 98
Mean 596.5
Std Dev 0
100
50
0
−50
−100

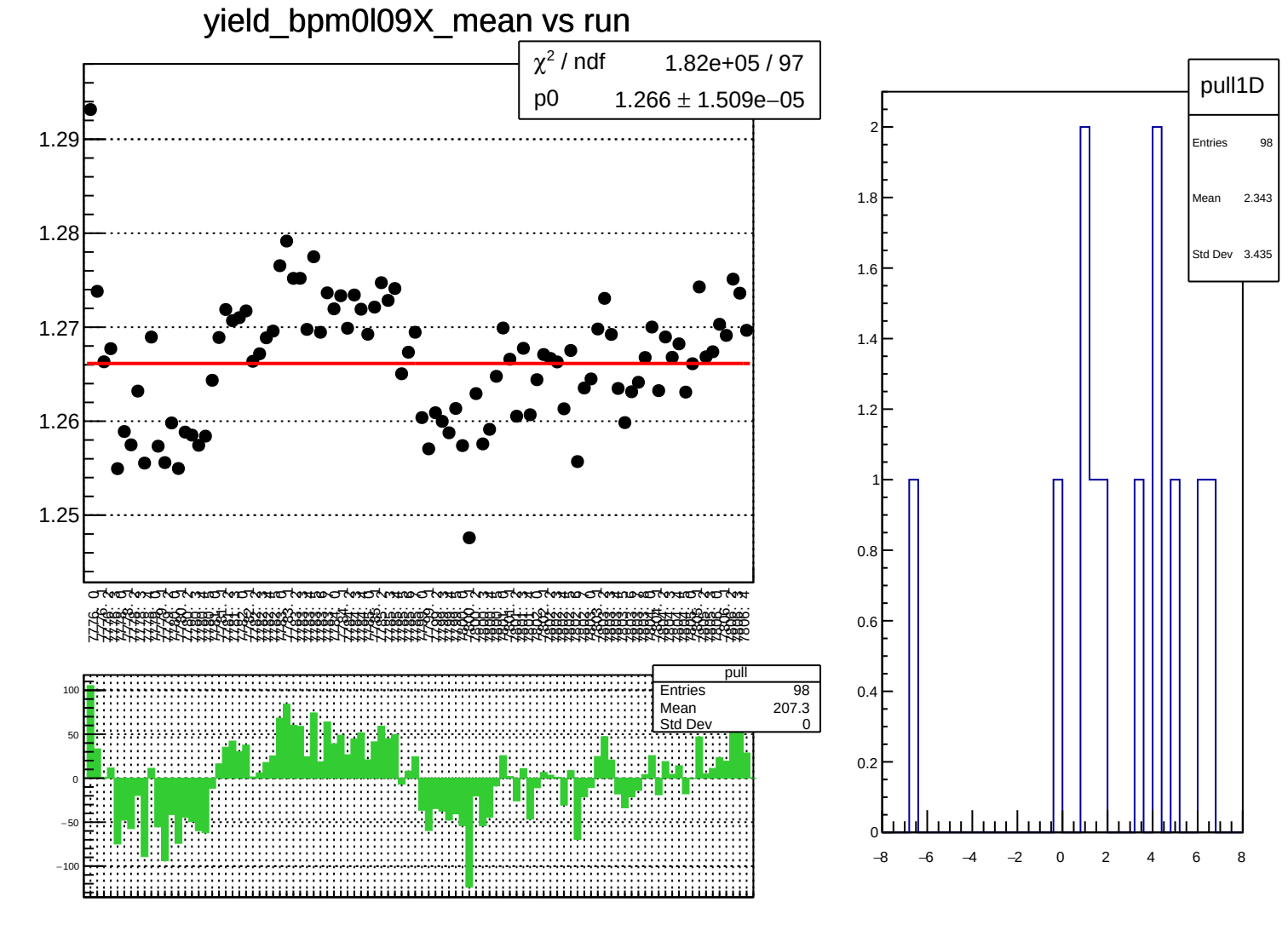

pull1D
Entries 98
Mean 1.456
Std Dev 4.439
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

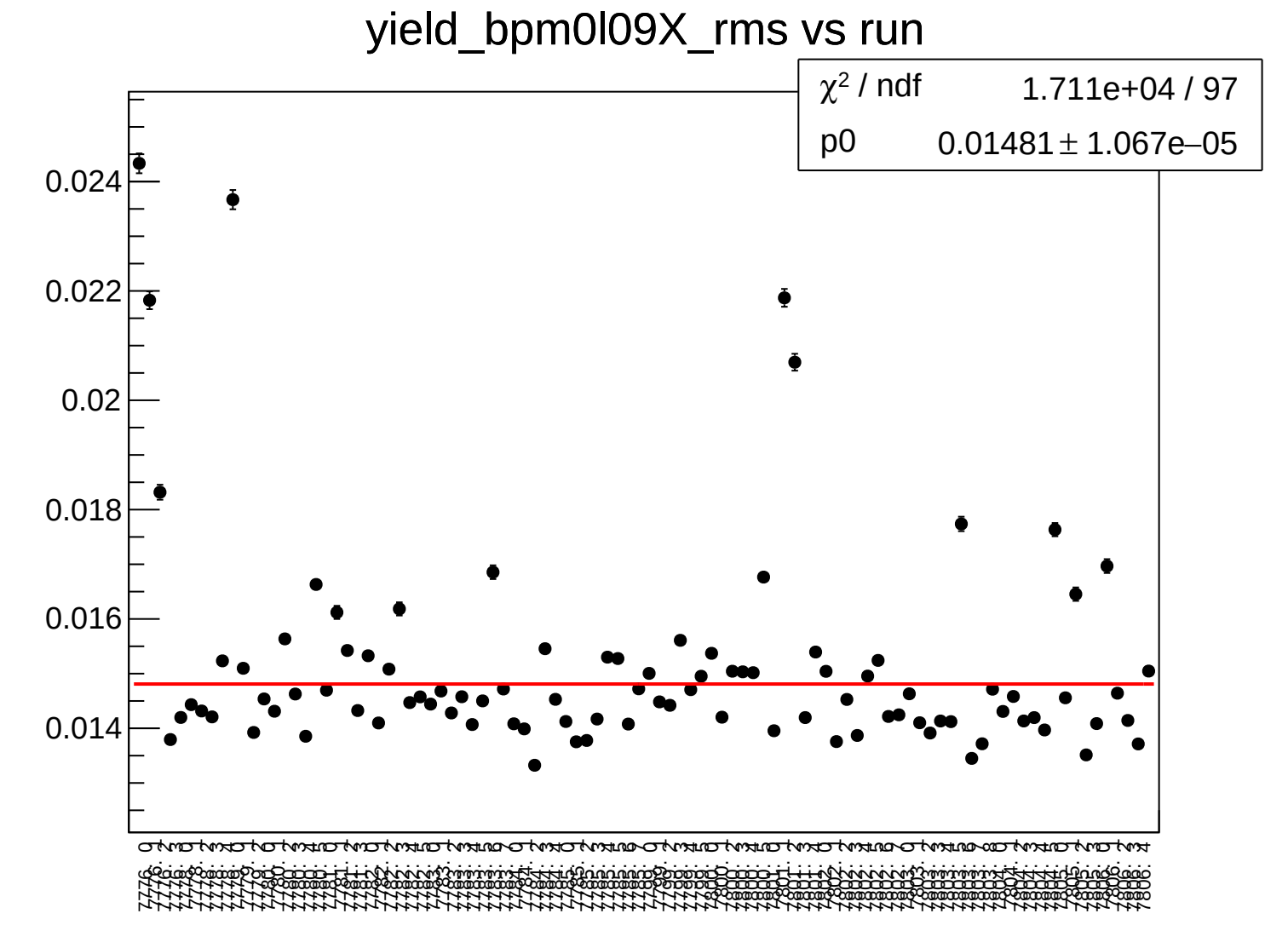

yield_bpm0l08X_rms vs run
χ² / ndf 1.579e+04 / 97
p0 0.01556 ± 1.121e–05
0.024
0.022
0.02
0.018
0.016
0.014

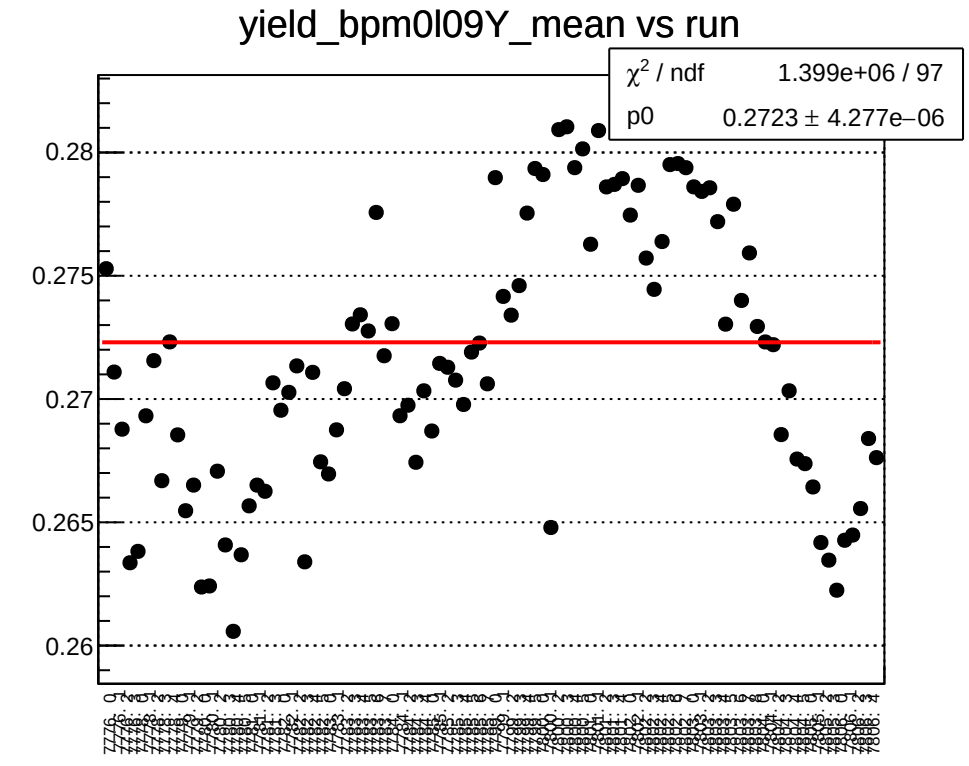

yield_bpm0l08Y_mean vs run
χ² / ndf 2.94e+06 / 97
p0 0.348 ± 3.73e−06
0.36
0.355
0.35
0.345
0.34
0.335
pull
Entries 98
Mean −144.2
Std Dev 0
300
200
100
0
−100
−200
−300

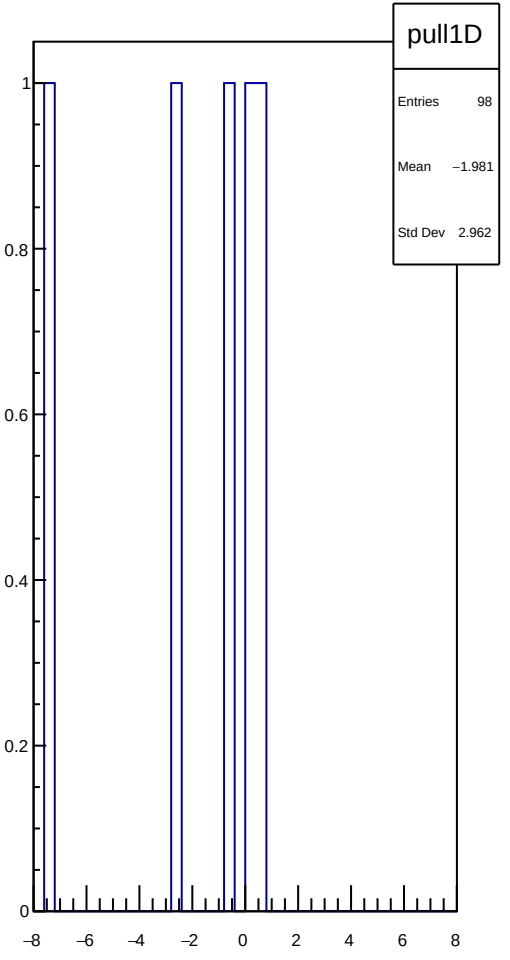

pull1D
Entries 98
Mean 4.762
Std Dev 1.502
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

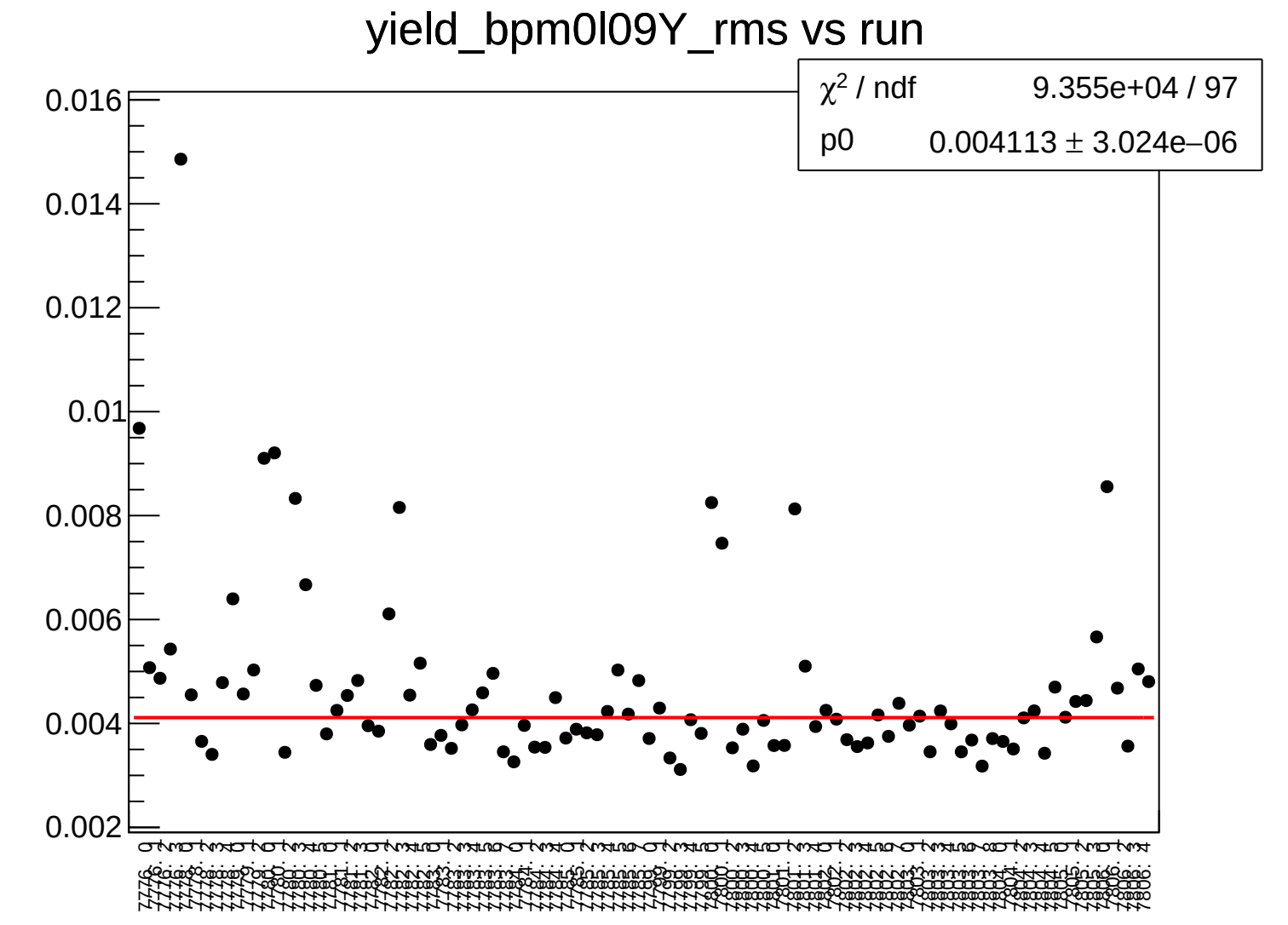

yield_bpm0l08Y_rms vs run
χ² / ndf 6.086e+04 / 97
p0 0.003618 ± 2.638e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

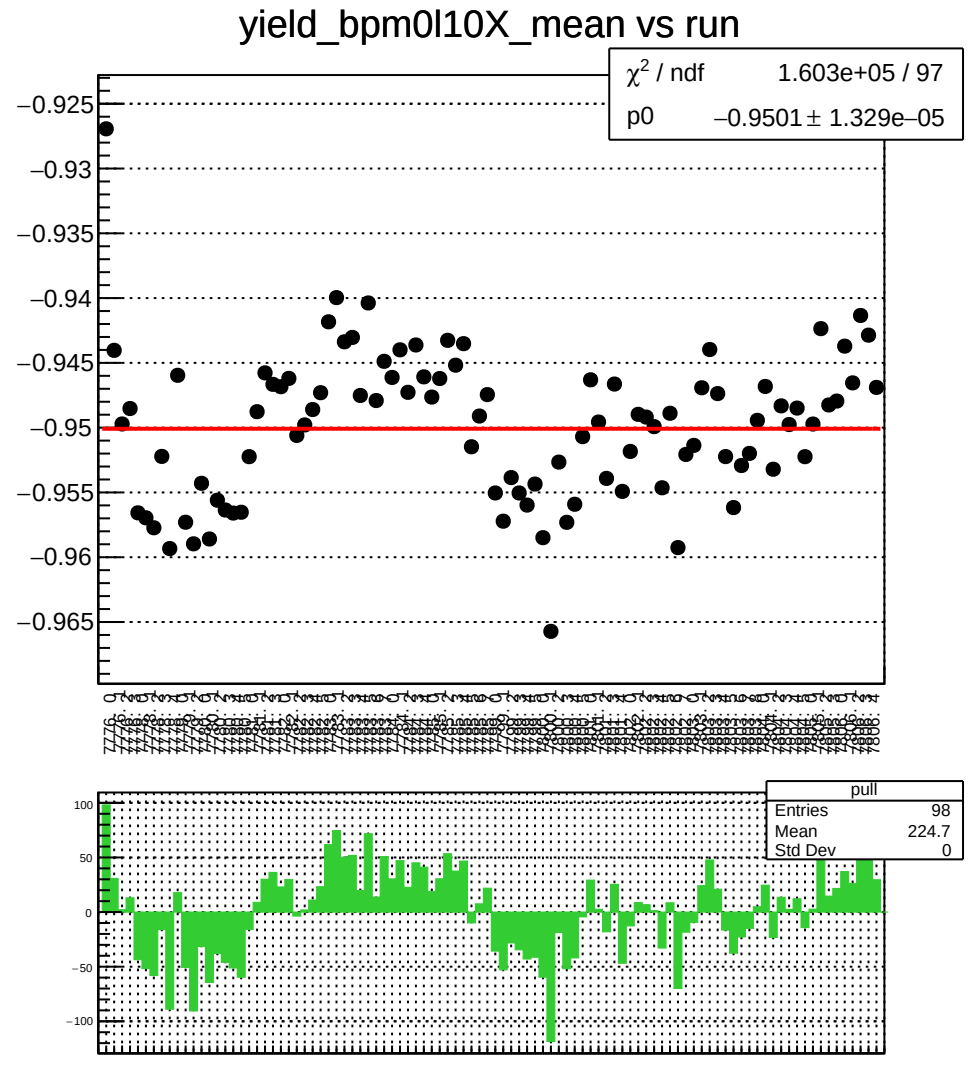

yield_bpm0l09X_mean vs run
χ² / ndf 1.82e+05 / 97
p0 1.266 ± 1.509e−05
1.29
1.28
1.27
1.26
1.25
pull
Entries 98
Mean 207.3
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 98
Mean 2.343
Std Dev 3.435
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

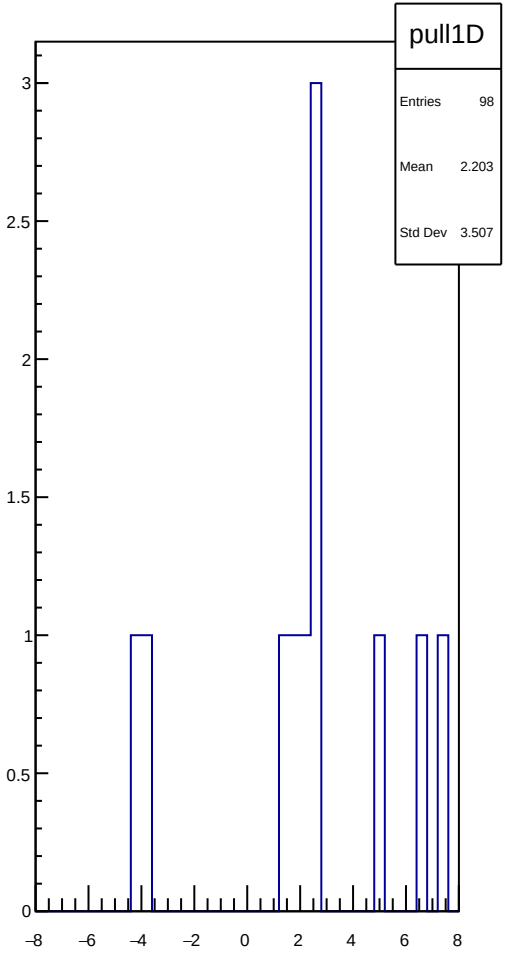

yield_bpm0l09X_rms vs run
χ² / ndf 1.711e+04 / 97
p0 0.01481 ± 1.067e–05
0.024
0.022
0.02
0.018
0.016
0.014

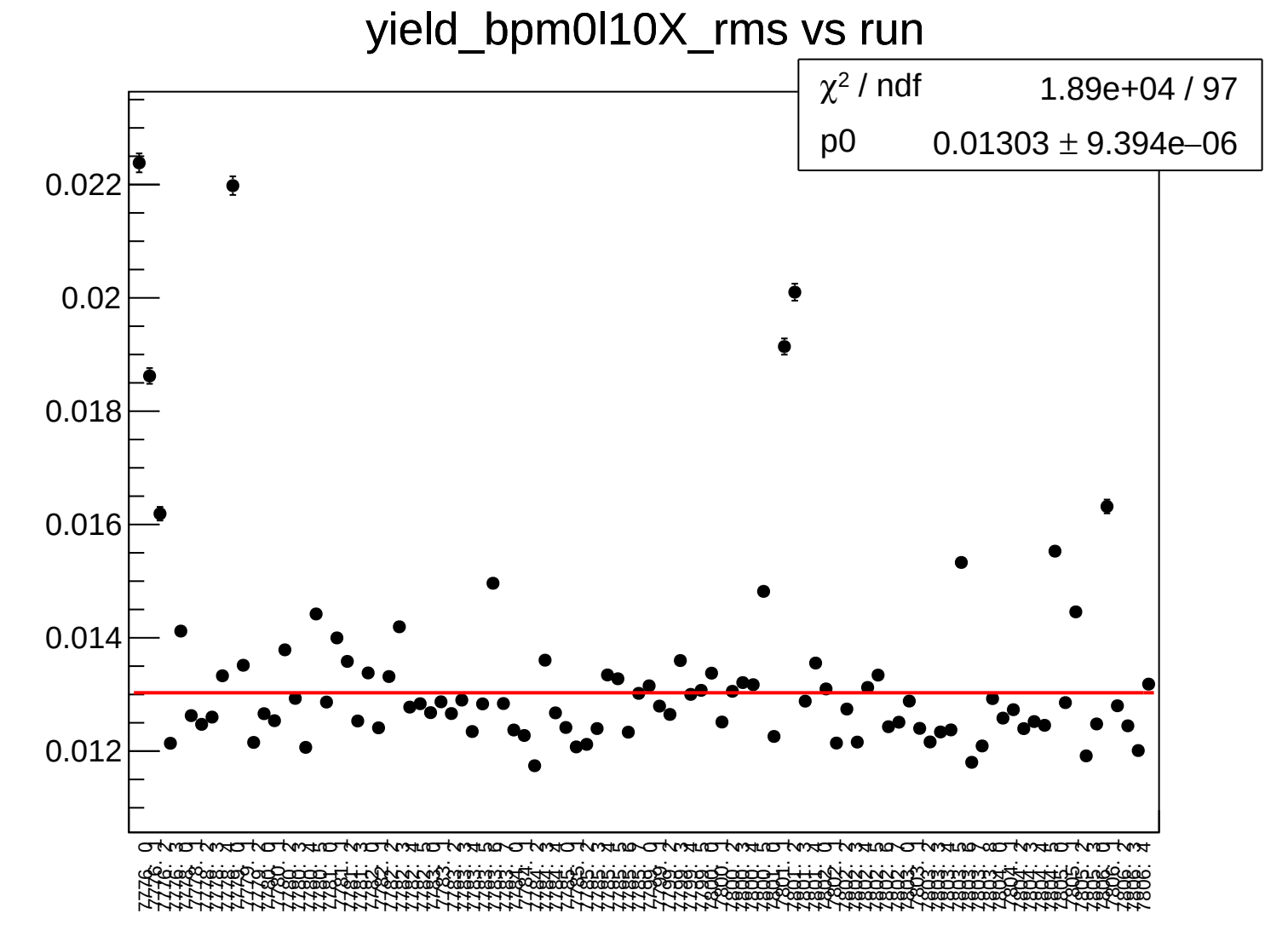

yield_bpm0l09Y_mean vs run
χ² / ndf 1.399e+06 / 97
p0 0.2723 ± 4.277e−06
0.28
0.275
0.27
0.265
0.26
pull
Entries 98
Mean −71.7
Std Dev 0
200
100
0
−100
−200

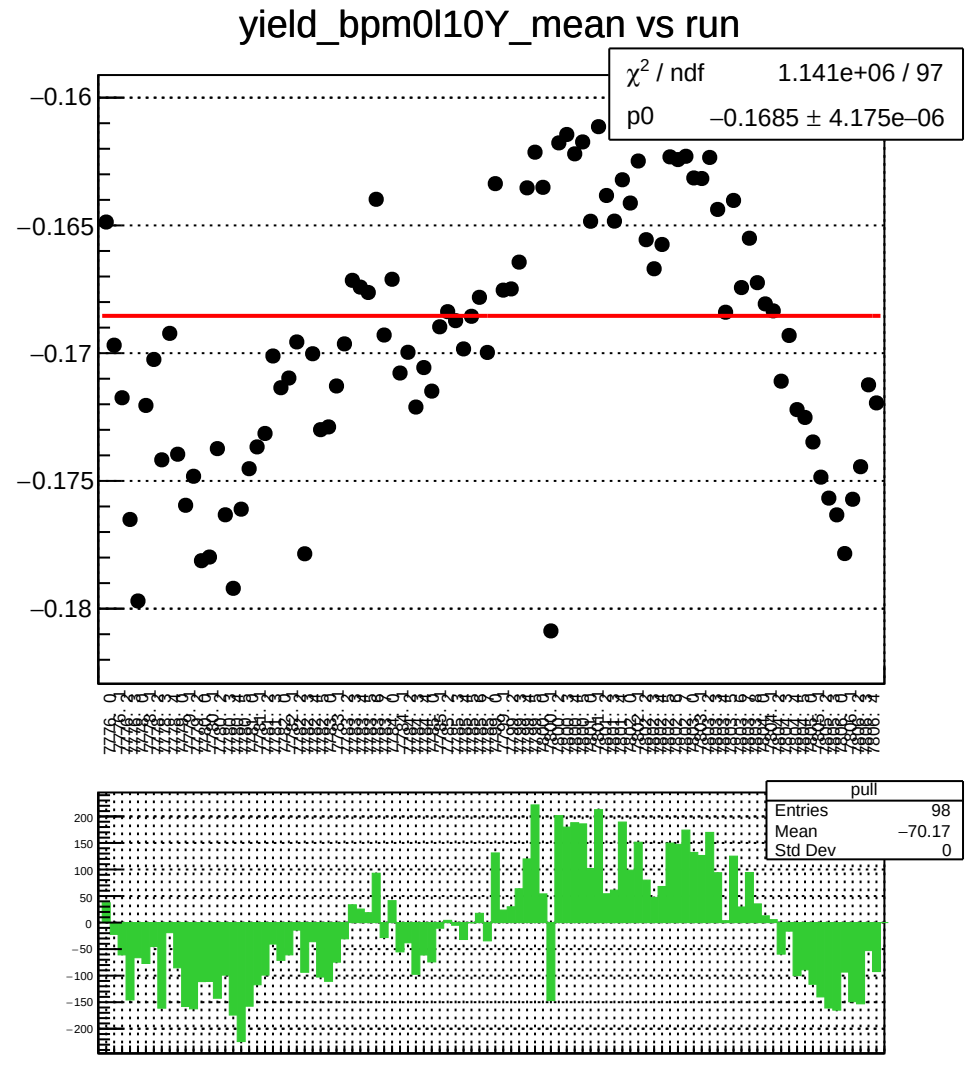

pull1D
Entries 98
Mean −1.981
Std Dev 2.962
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

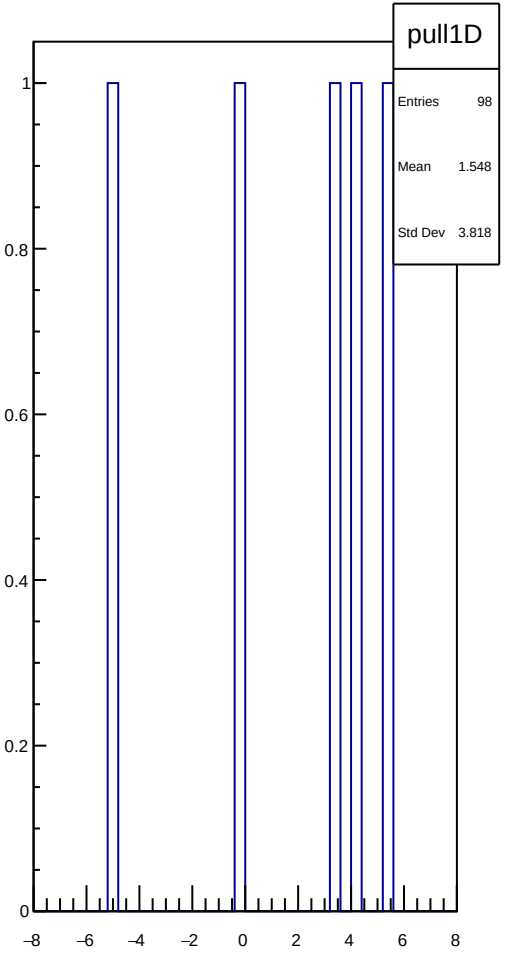

yield_bpm0l09Y_rms vs run
χ^2 / ndf 9.355e+04 / 97
p0 0.004113 ± 3.024e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

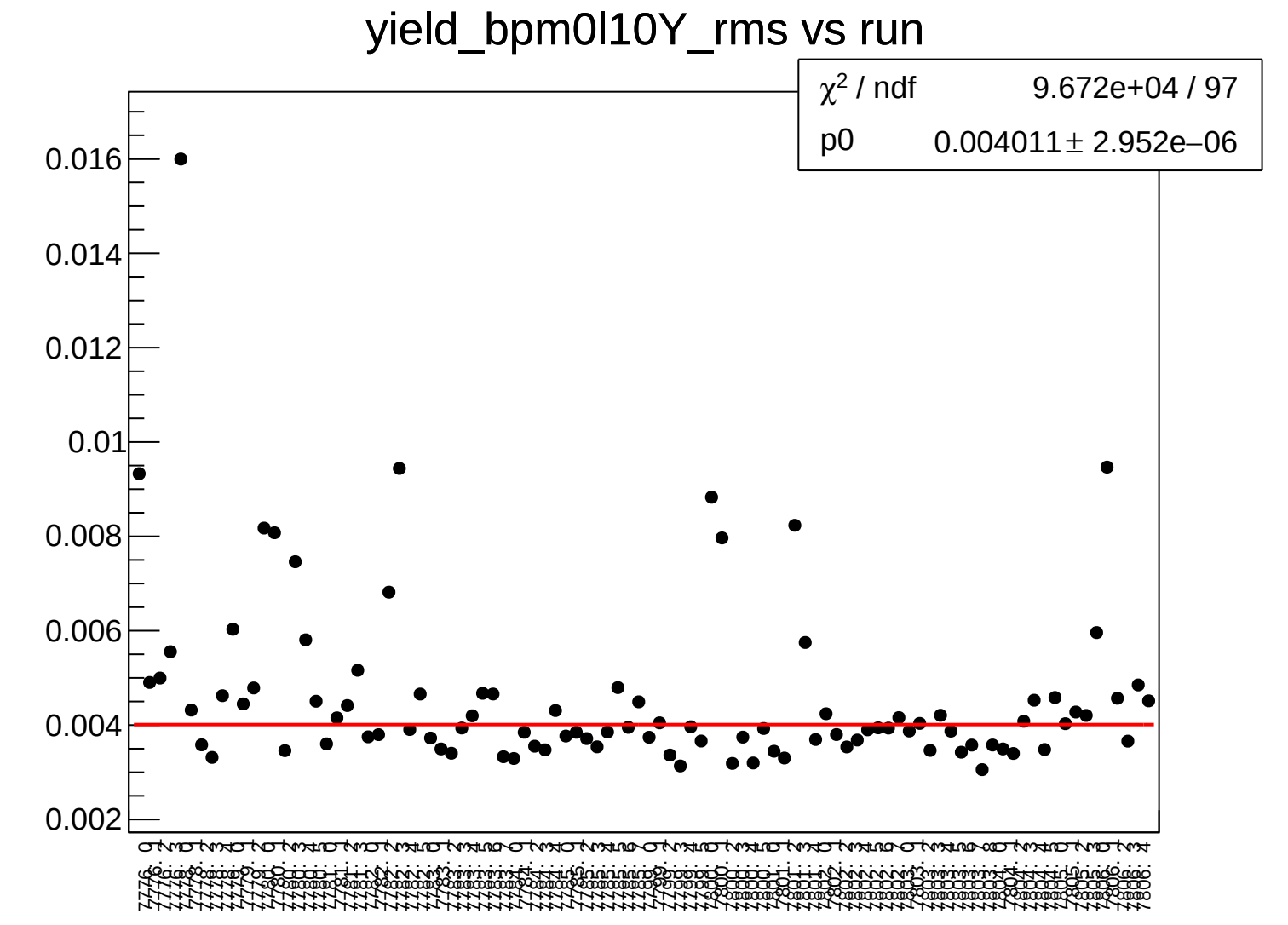

yield_bpm0l10X_mean vs run
χ² / ndf 1.603e+05 / 97
p0 −0.9501 ± 1.329e−05
−0.925
−0.93
−0.935
−0.94
−0.945
−0.95
−0.955
−0.96
−0.965
pull
Entries 98
Mean 224.7
Std Dev 0
100
50
0
−50
−100

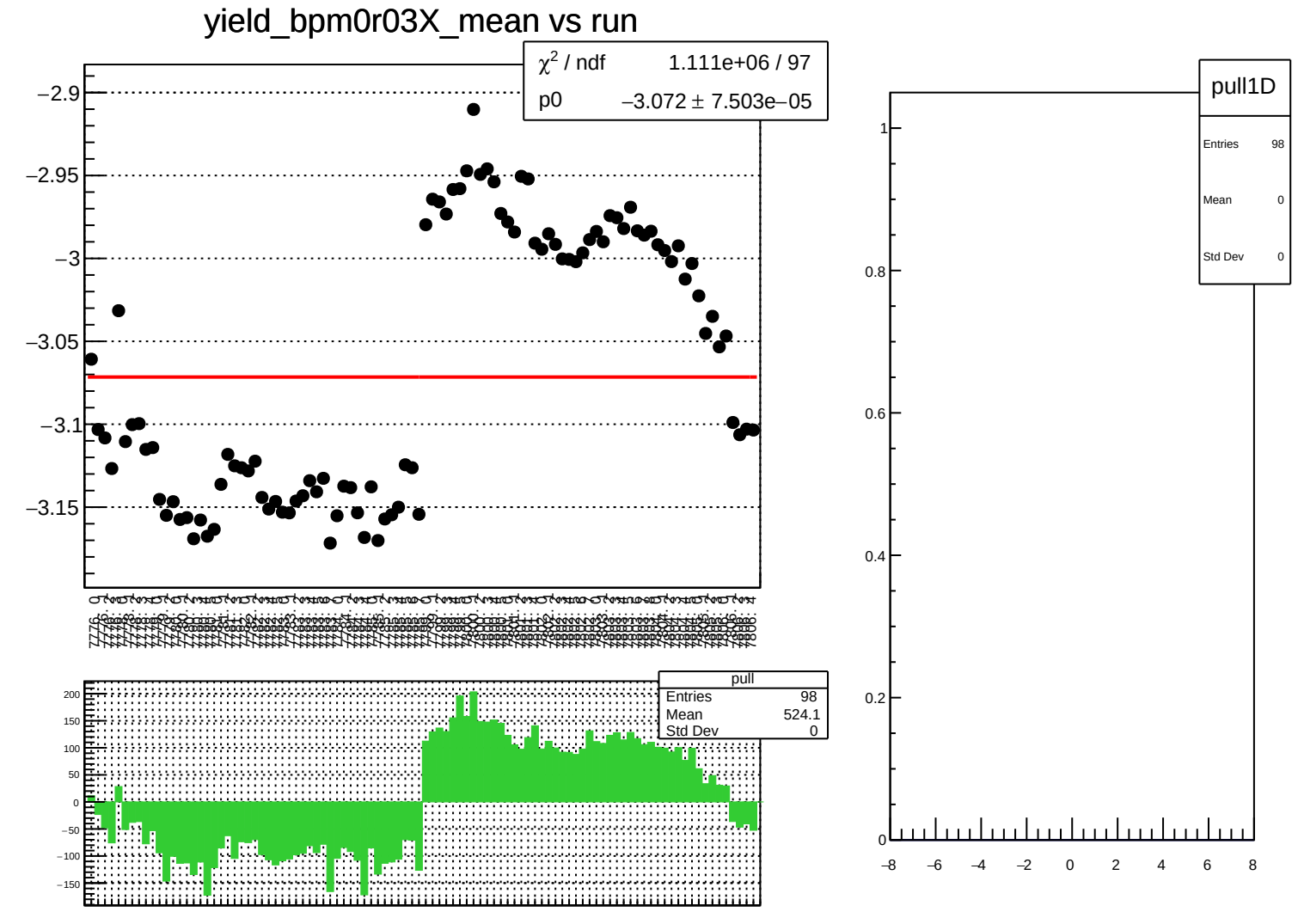

pull1D
Entries 98
Mean 2.203
Std Dev 3.507
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

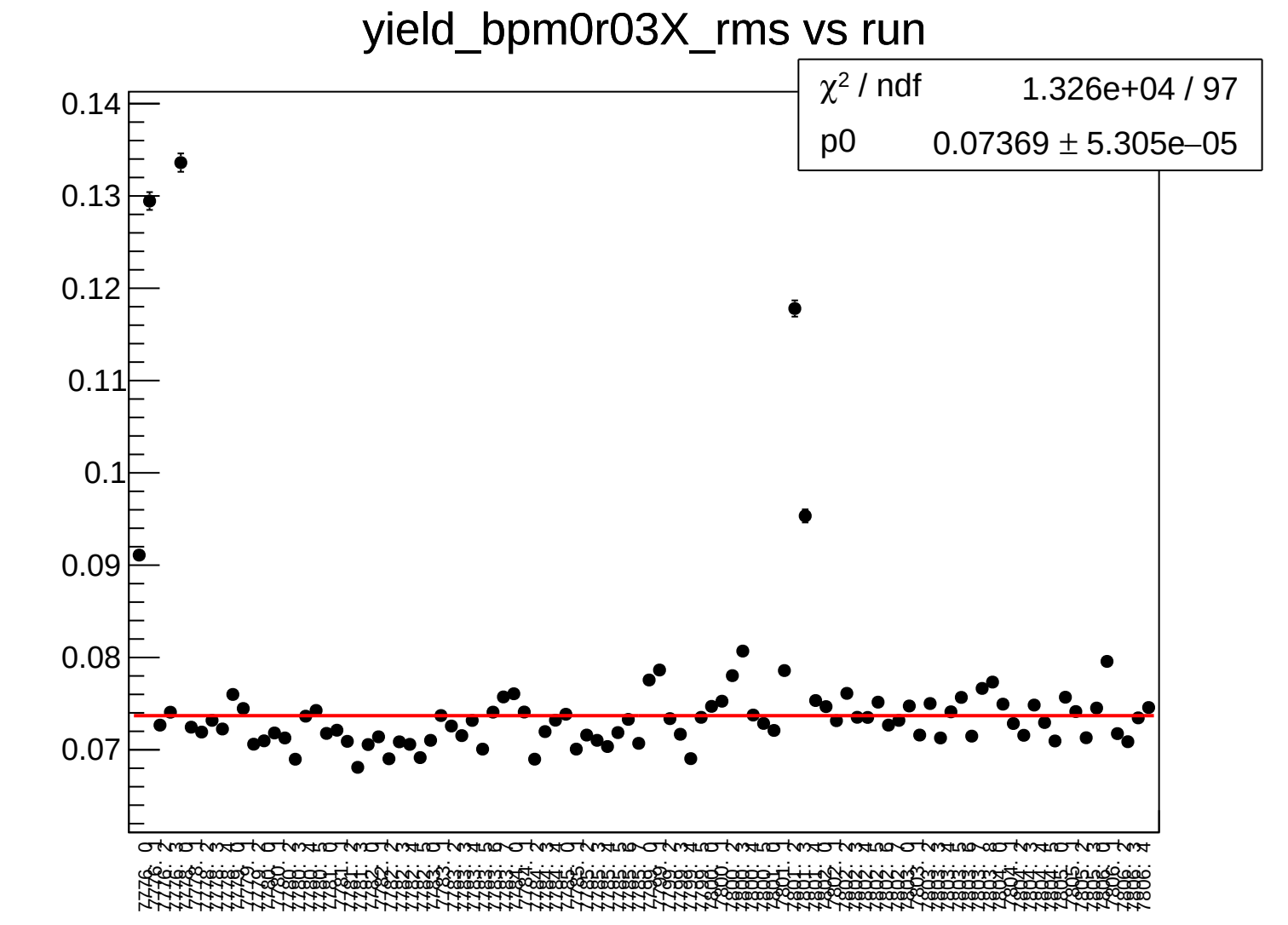

yield_bpm0l10X_rms vs run
χ^2 / ndf 1.89e+04 / 97
p0 0.01303 ± 9.394e−06
0.022
0.02
0.018
0.016
0.014
0.012

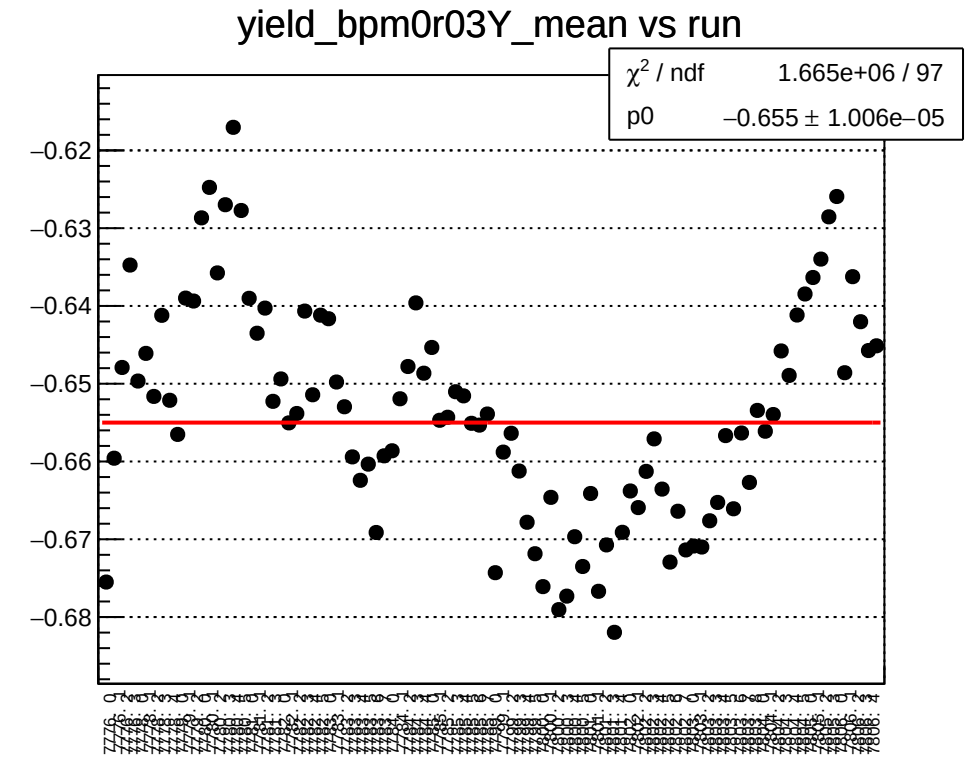

yield_bpm0l10Y_mean vs run
χ² / ndf 1.141e+06 / 97
p0 −0.1685 ± 4.175e−06
−0.16
−0.165
−0.17
−0.175
−0.18
pull
Entries 98
Mean −70.17
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

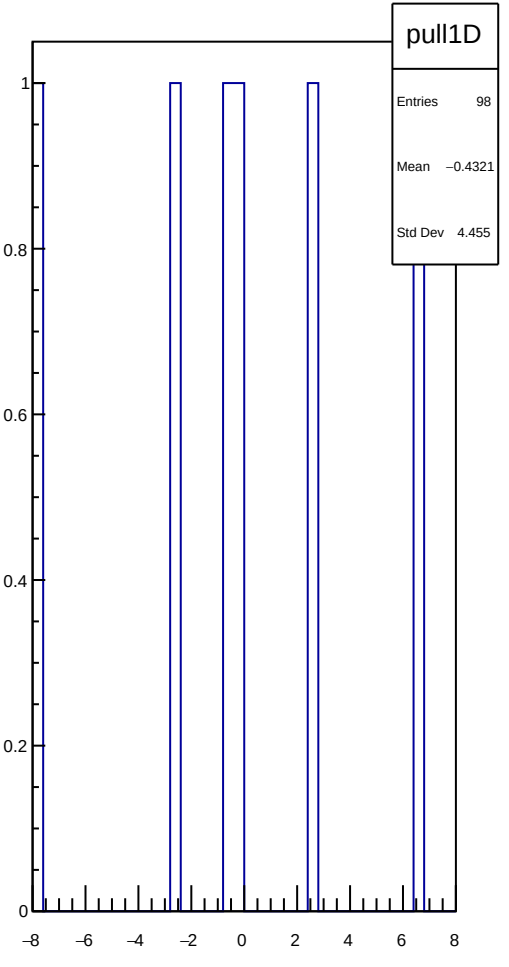

pull1D
Entries 98
Mean 1.548
Std Dev 3.818
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

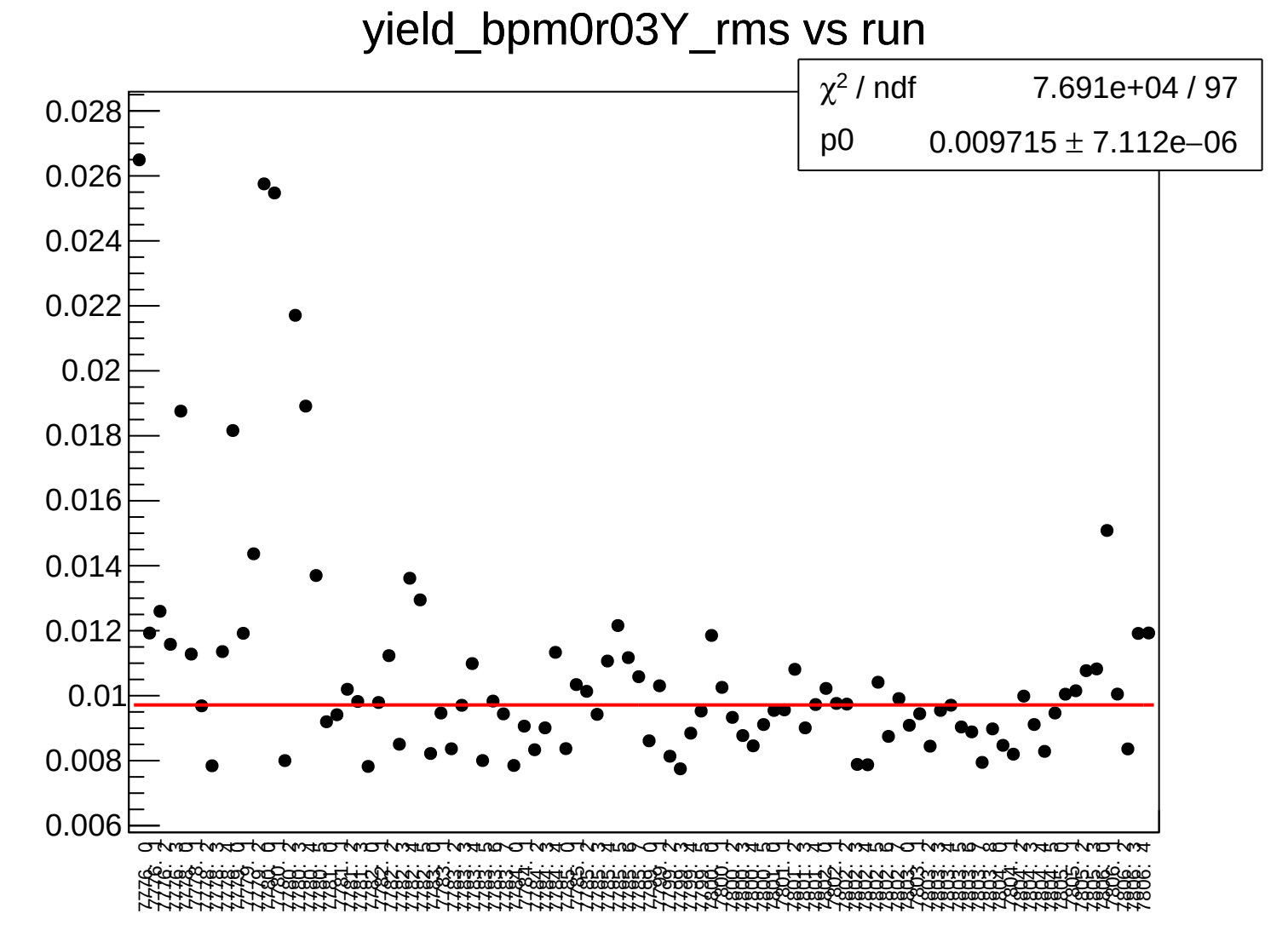

yield_bpm0l10Y_rms vs run
χ^2 / ndf 9.672e+04 / 97
p0 0.004011 ± 2.952e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

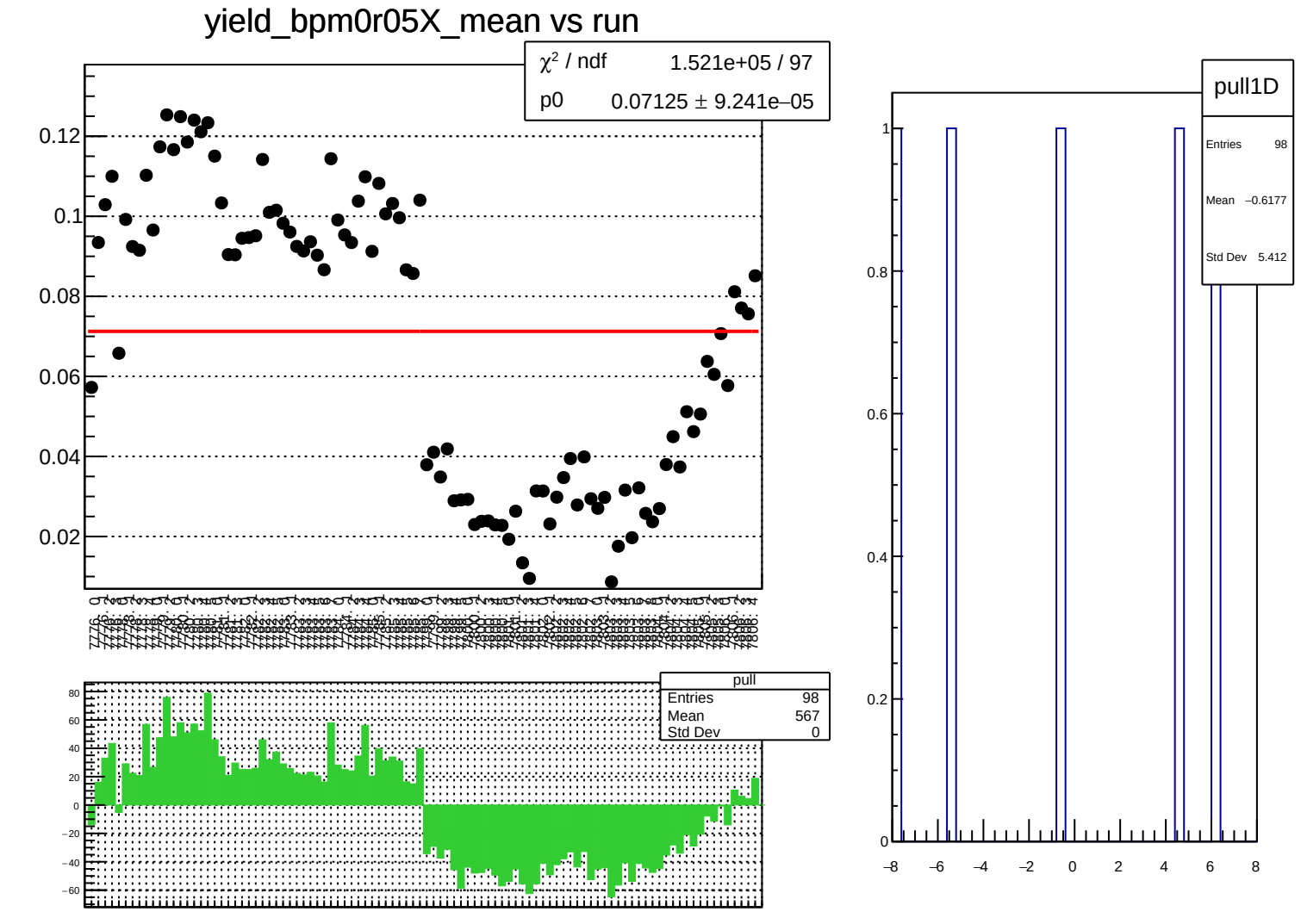

yield_bpm0r03X_mean vs run
χ² / ndf 1.111e+06 / 97
p0 −3.072 ± 7.503e−05
−2.9
−2.95
−3
−3.05
−3.1
−3.15
pull
Entries 98
Mean 524.1
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

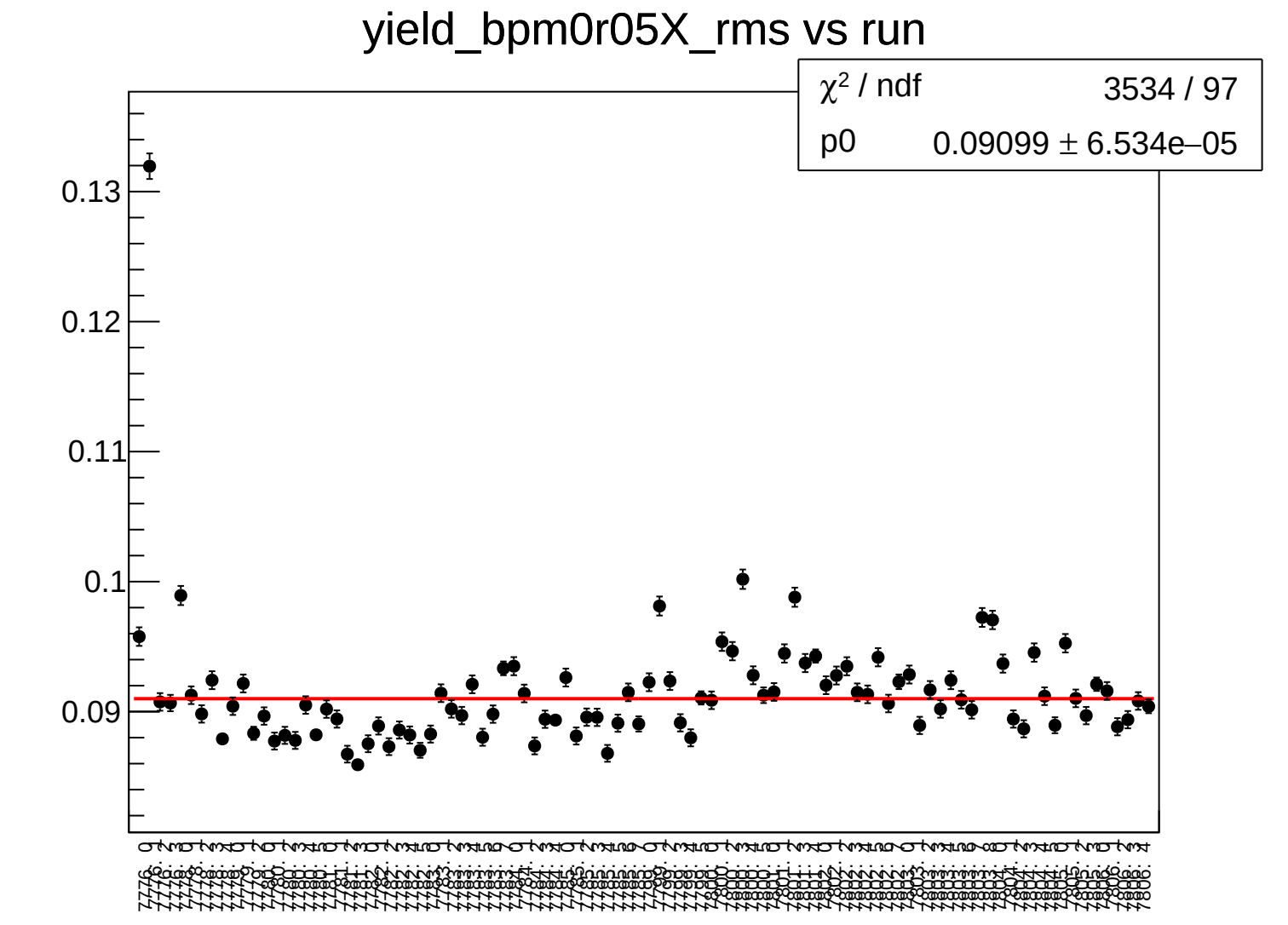

yield_bpm0r03X_rms vs run
χ² / ndf 1.326e+04 / 97
p0 0.07369 ± 5.305e−05
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07

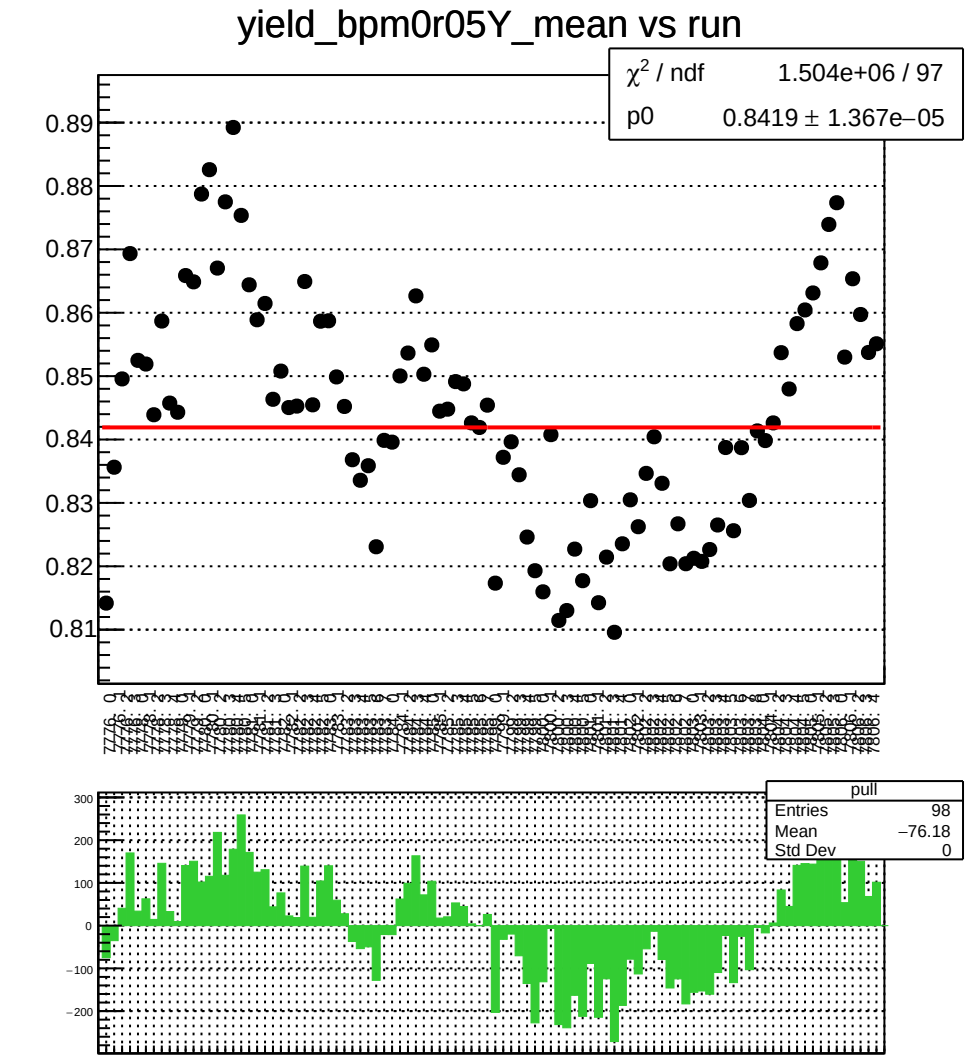

yield_bpm0r03Y_mean vs run
χ² / ndf 1.665e+06 / 97
p0 −0.655 ± 1.006e−05
−0.62
−0.63
−0.64
−0.65
−0.66
−0.67
−0.68
pull
Entries 98
Mean −93.19
Std Dev 0
300
200
100
0
−100
−200
−300

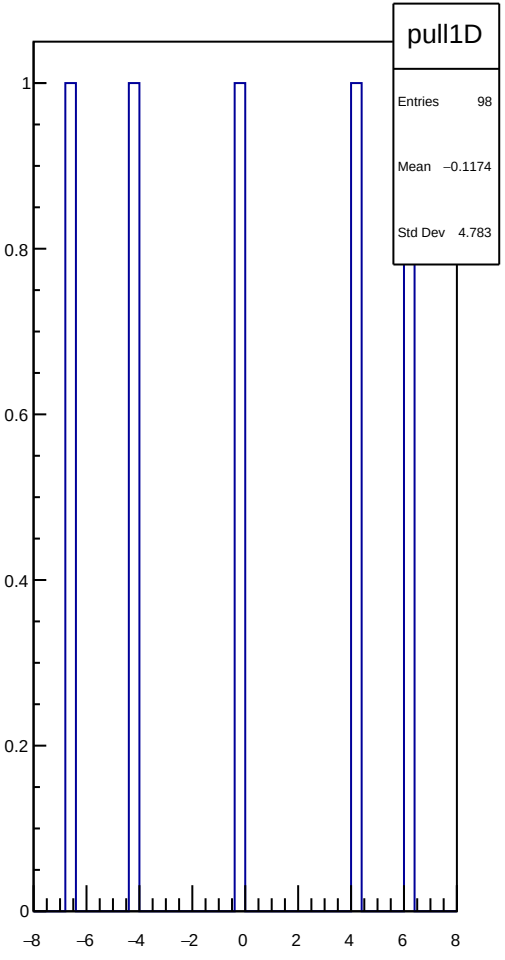

pull1D
Entries 98
Mean −0.4321
Std Dev 4.455
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

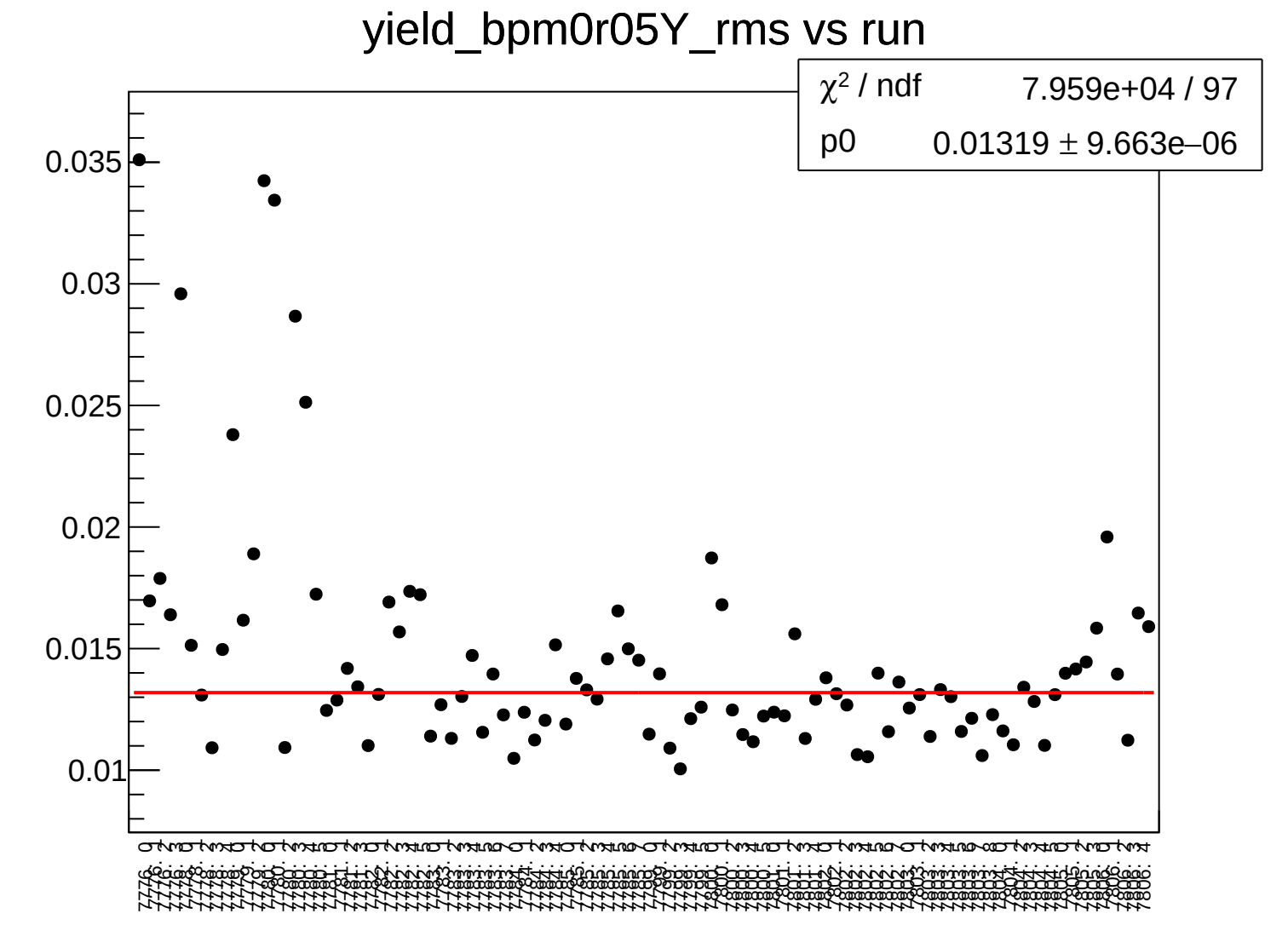

yield_bpm0r03Y_rms vs run
χ^2 / ndf 7.691e+04 / 97
p0 0.009715 ± 7.112e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

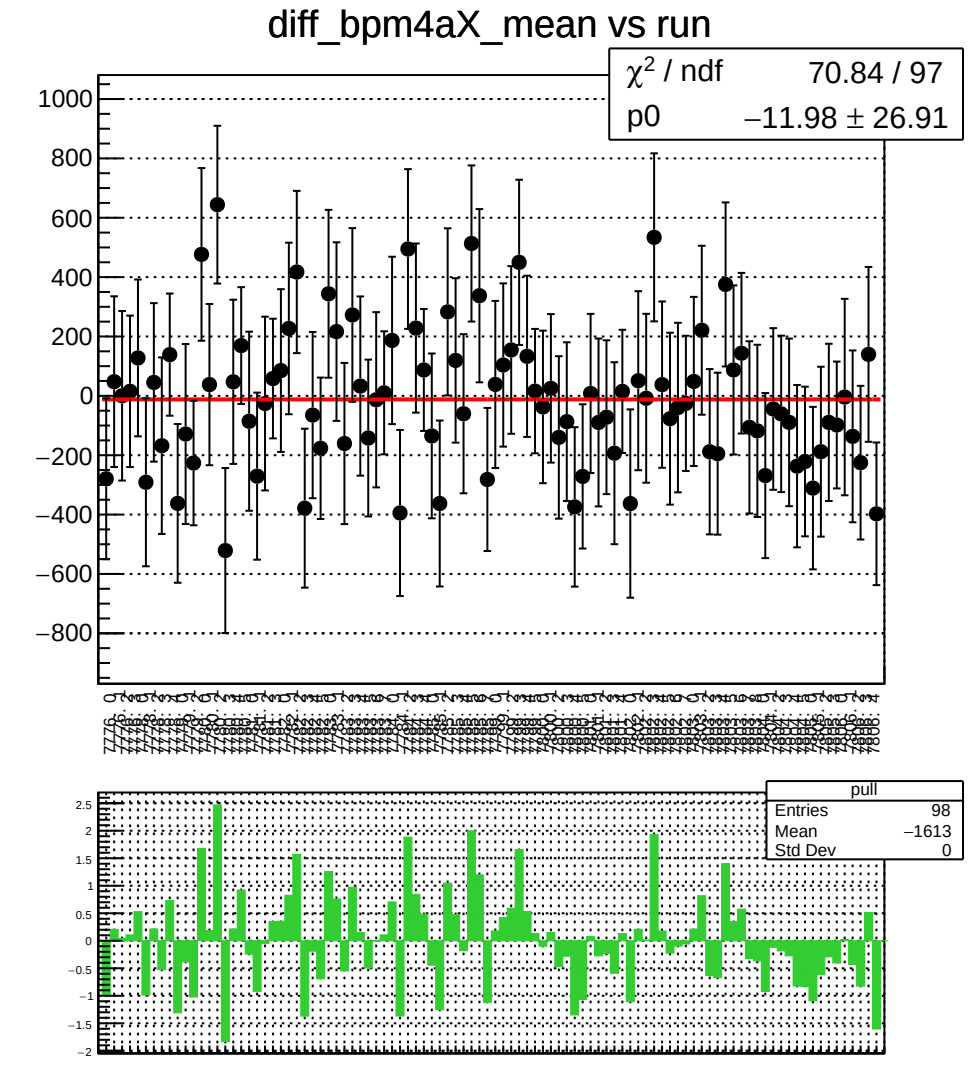

yield_bpm0r05X_mean vs run
χ² / ndf 1.521e+05 / 97
p0 0.07125 ± 9.241e−05
0.12
0.1
0.08
0.06
0.04
0.02
pull
Entries 98
Mean 567
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 98
Mean −0.6177
Std Dev 5.412
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

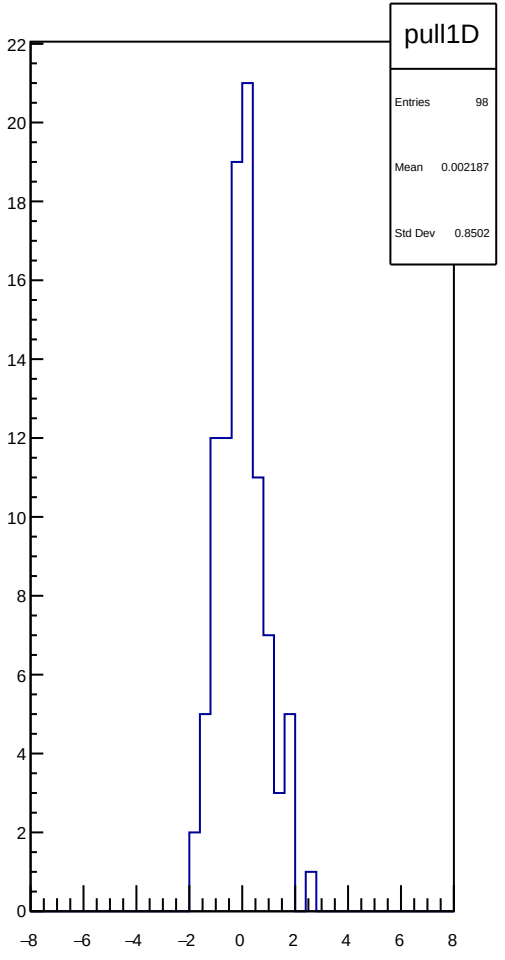

yield_bpm0r05X_rms vs run
χ² / ndf 3534 / 97
p0 0.09099 ± 6.534e–05
0.13
0.12
0.11
0.1
0.09

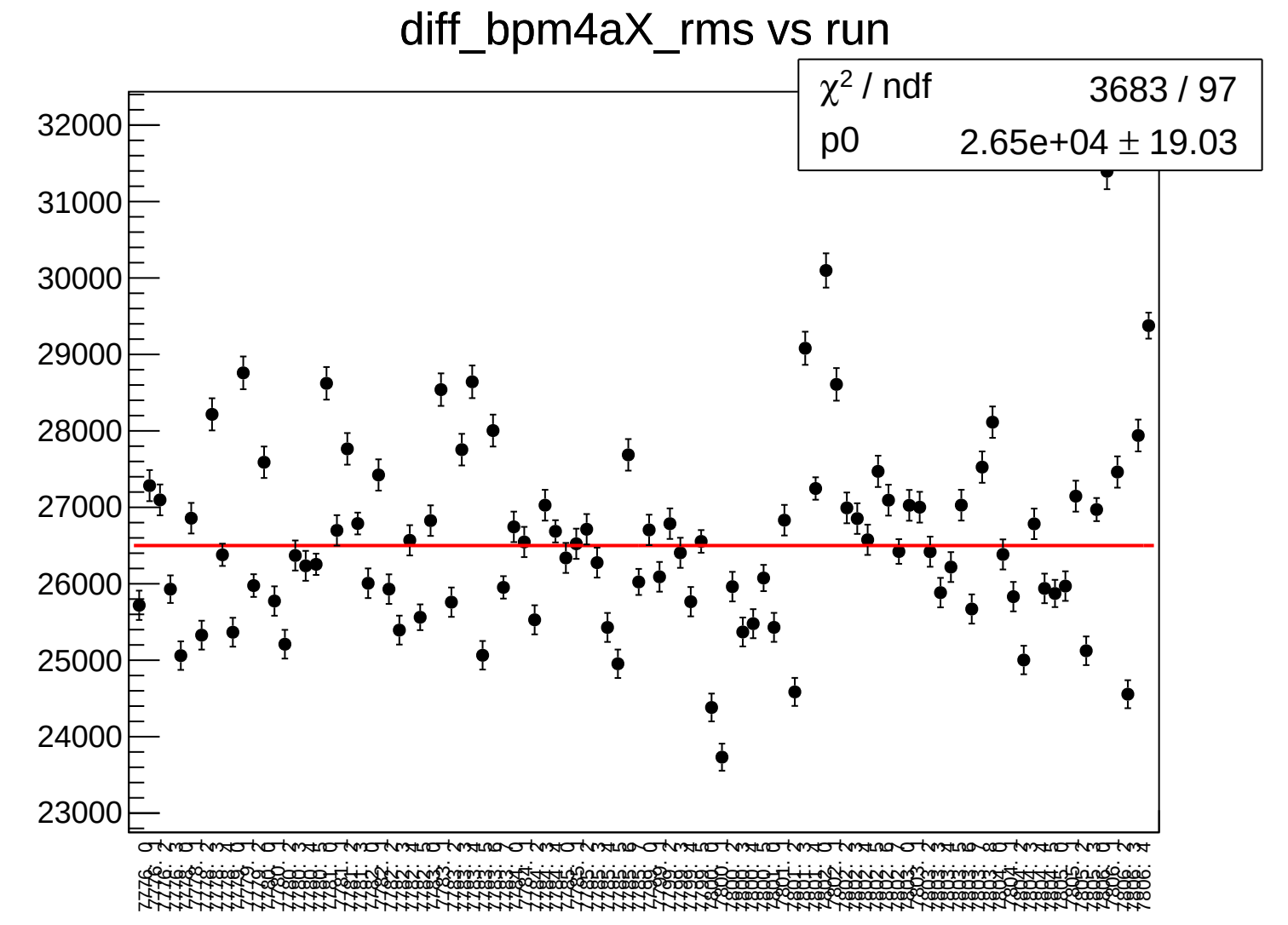

yield_bpm0r05Y_mean vs run
χ² / ndf 1.504e+06 / 97
p0 0.8419 ± 1.367e−05
0.89
0.88
0.87
0.86
0.85
0.84
0.83
0.82
0.81
pull
Entries 98
Mean −76.18
Std Dev 0
300
200
100
0
−100
−200

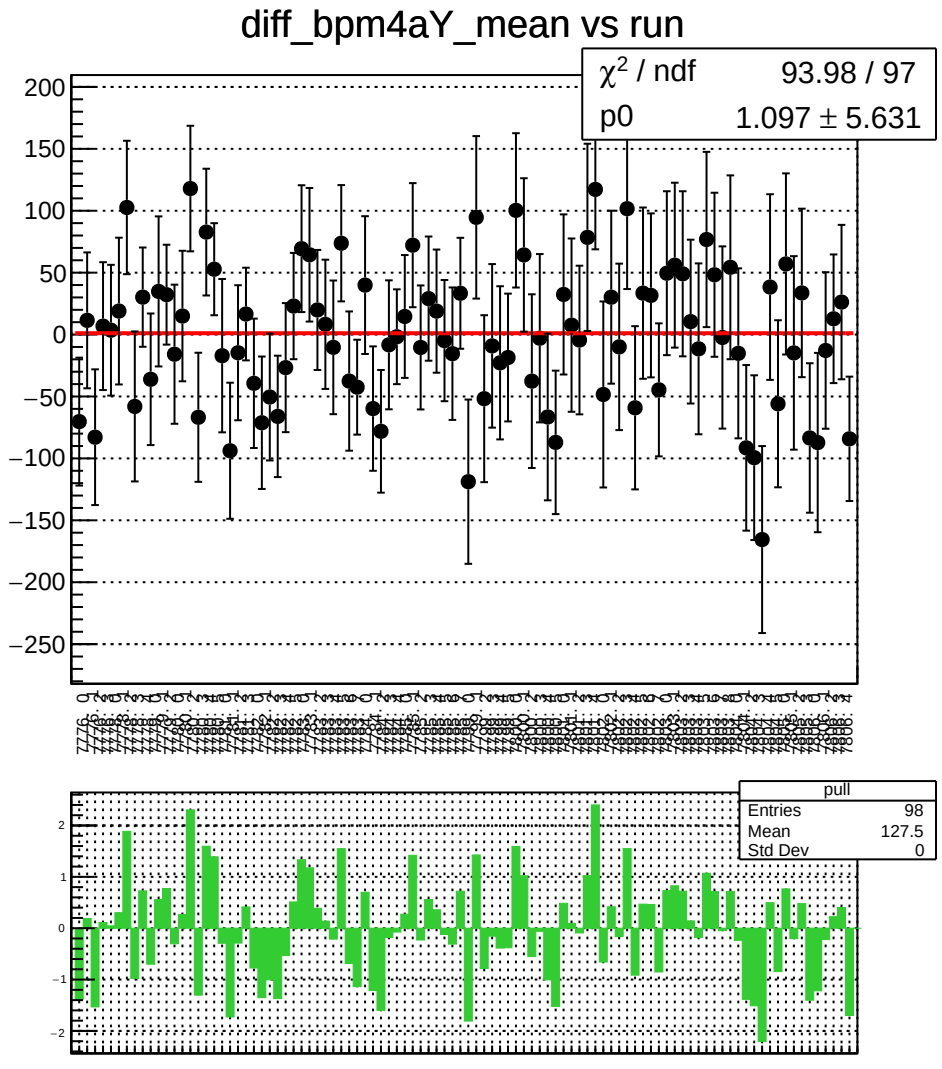

pull1D
Entries 98
Mean −0.1174
Std Dev 4.783
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

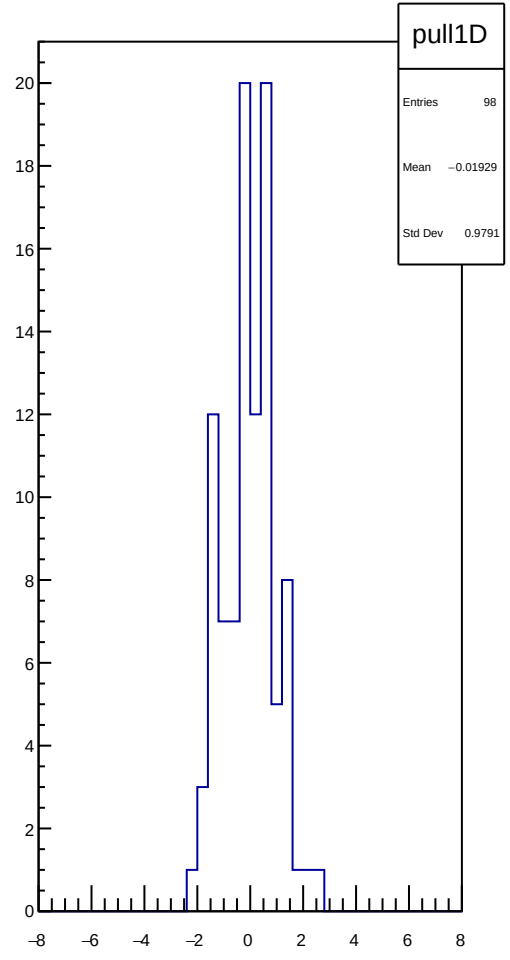

yield_bpm0r05Y_rms vs run
χ² / ndf 7.959e+04 / 97
p0 0.01319 ± 9.663e−06
0.035
0.03
0.025
0.02
0.015
0.01

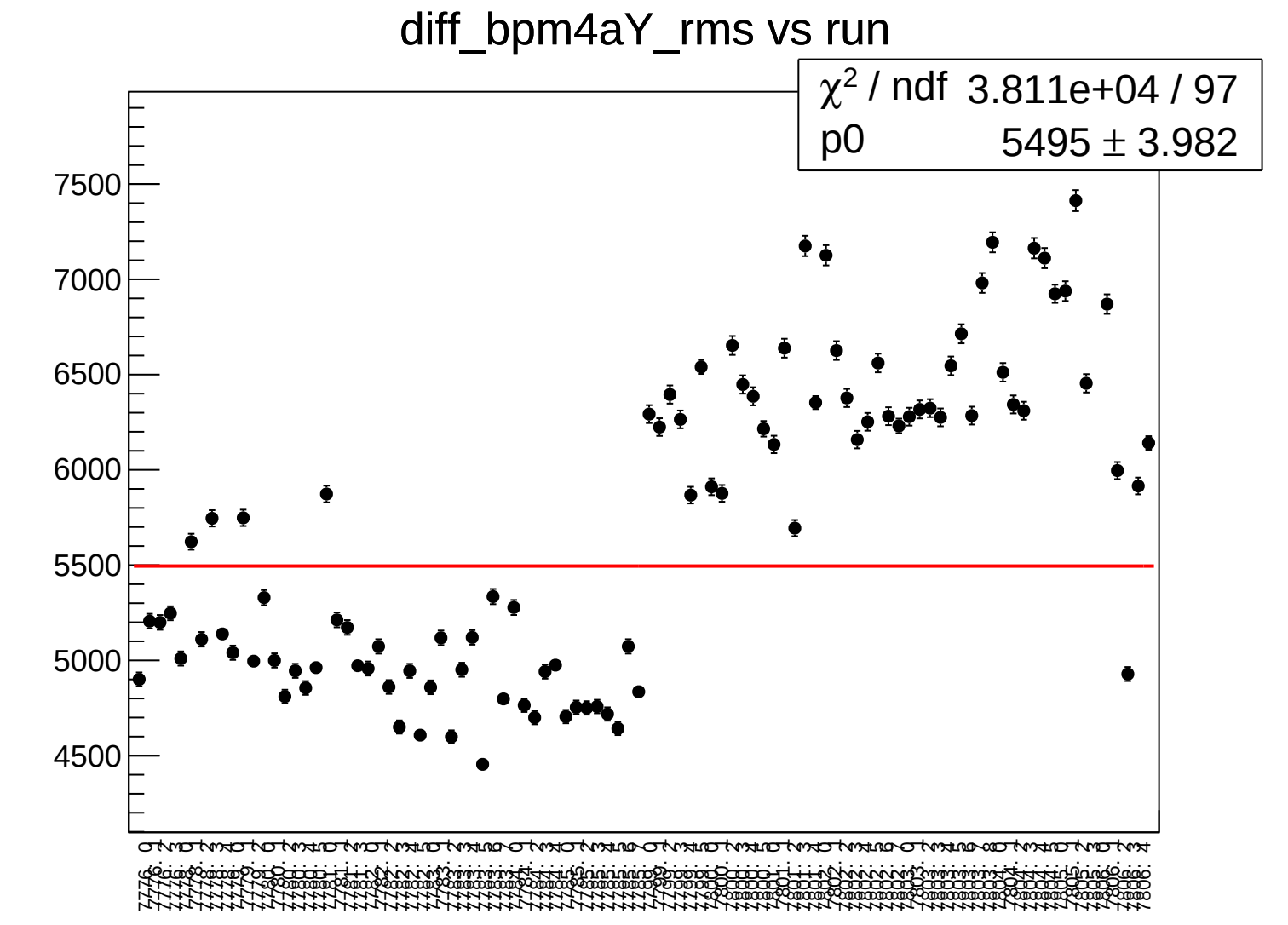

diff_bpm4aX_mean vs run
χ² / ndf 70.84 / 97
p0 −11.98 ± 26.91
pull
Entries 98
Mean −1613
Std Dev 0

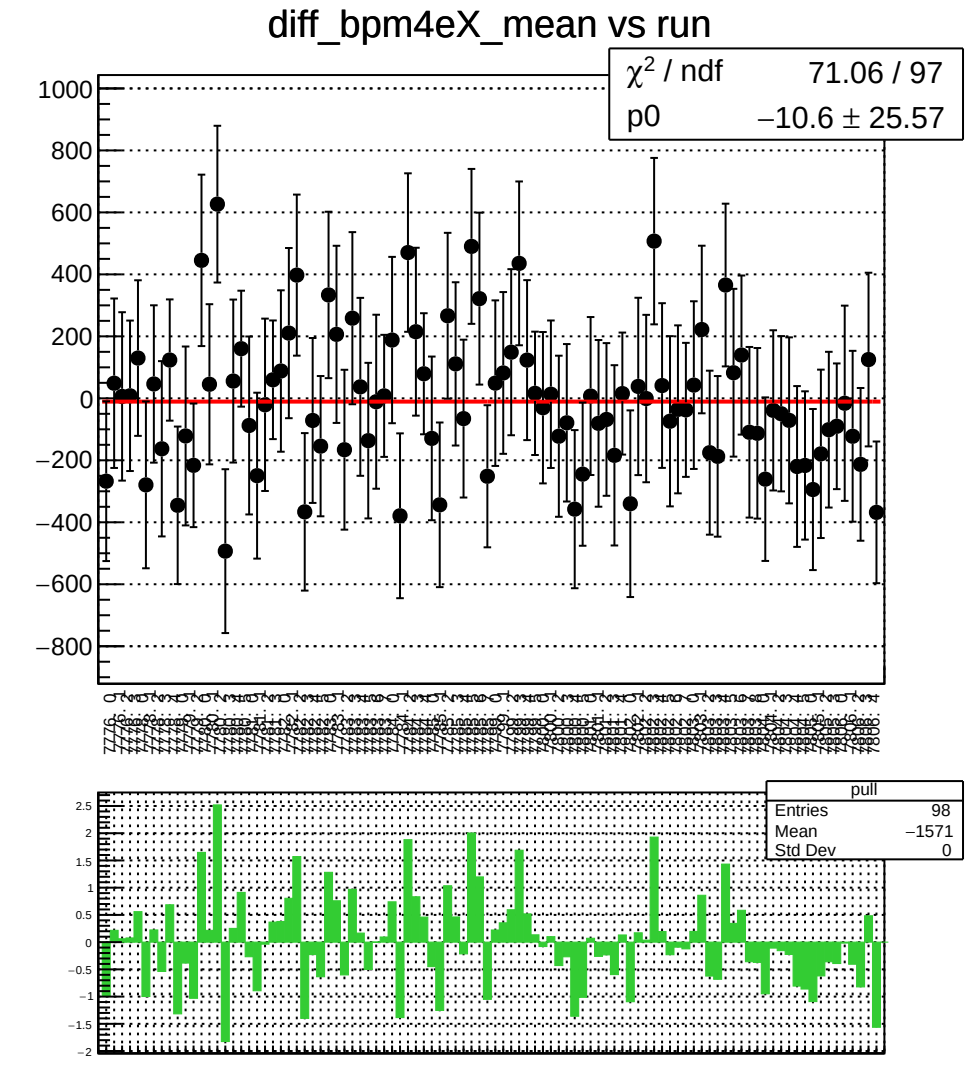

pull1D
Entries 98
Mean 0.002187
Std Dev 0.8502

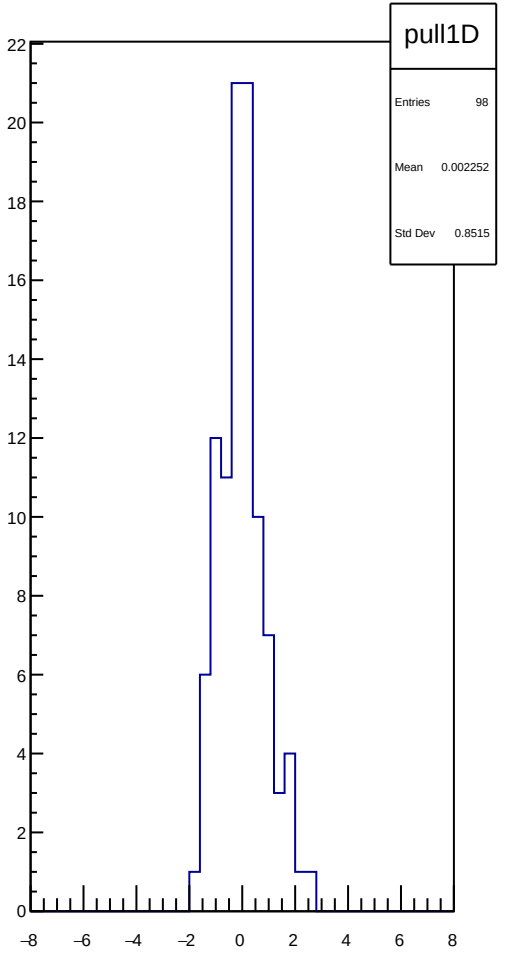

diff_bpm4aX_rms vs run
χ² / ndf 3683 / 97
p0 2.65e+04 ± 19.03
32000
31000
30000
29000
28000
27000
26000
25000
24000
23000

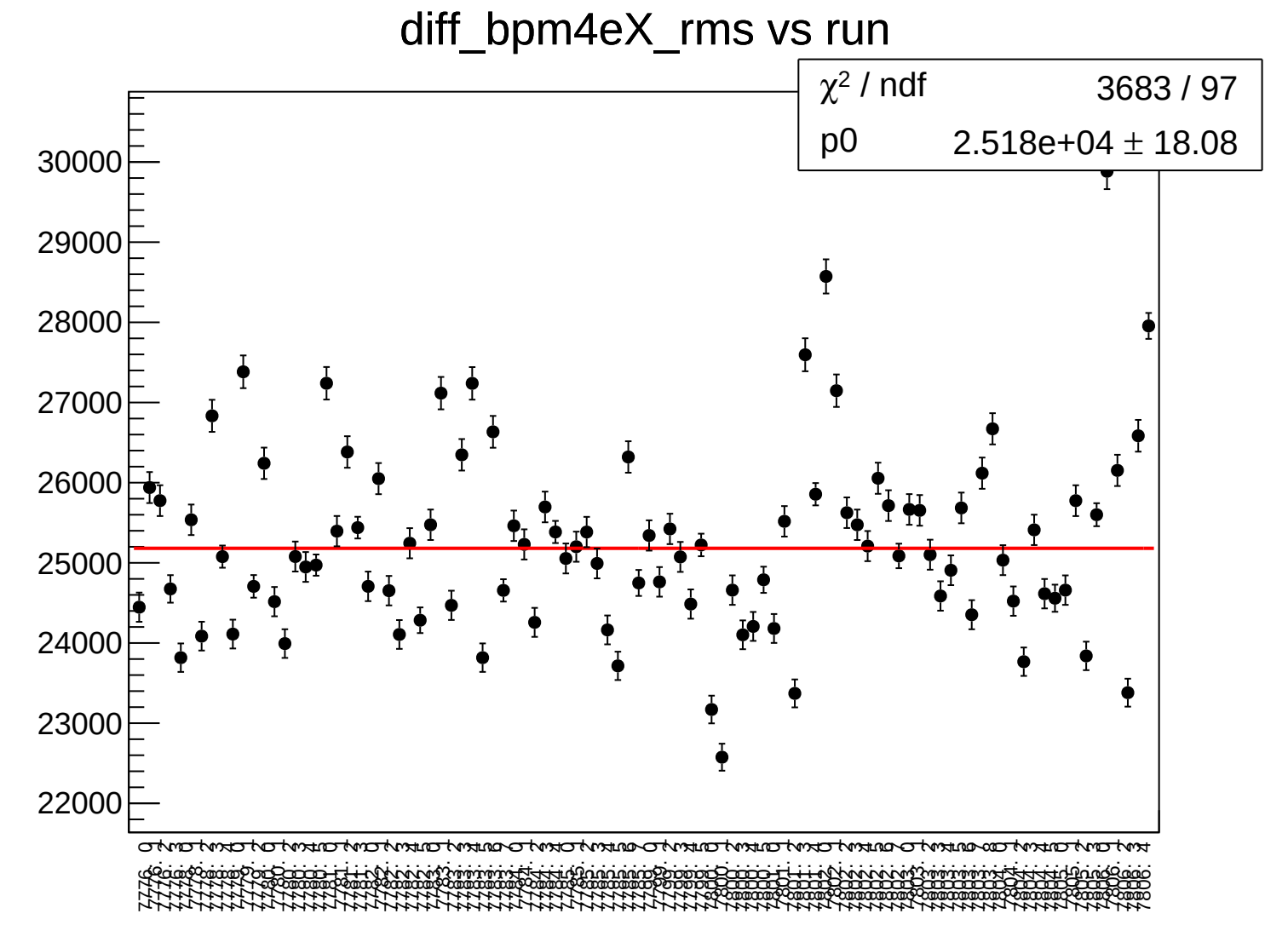

diff_bpm4aY_mean vs run
χ^2 / ndf 93.98 / 97
p0 1.097 ± 5.631
pull
Entries 98
Mean 127.5
Std Dev 0

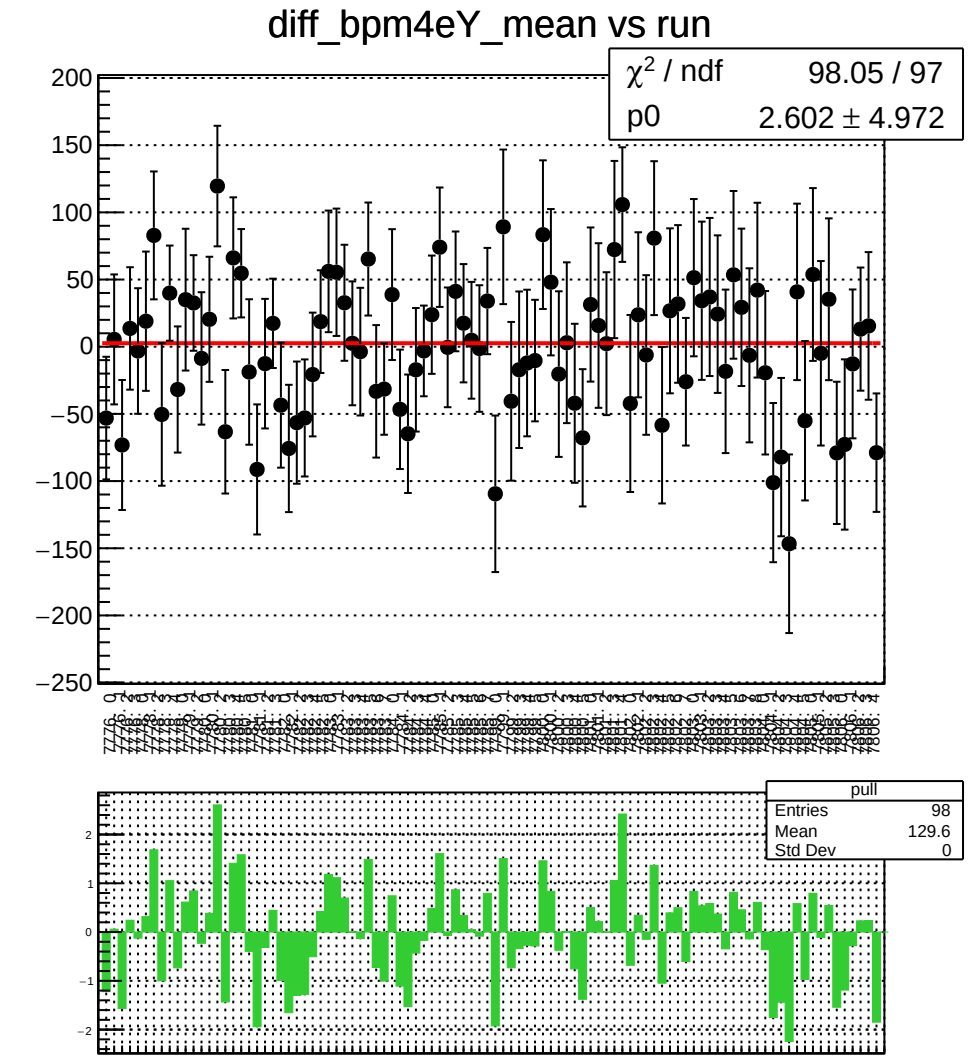

pull1D
Entries 98
Mean −0.01929
Std Dev 0.9791

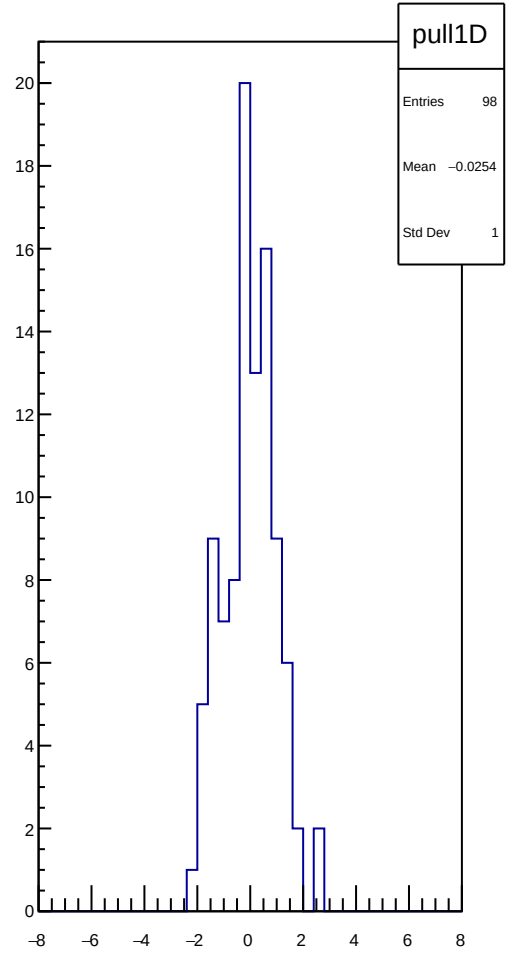

diff_bpm4aY_rms vs run
χ^2 / ndf 3.811e+04 / 97
p0 5495 ± 3.982
7500
7000
6500
6000
5500
5000
4500

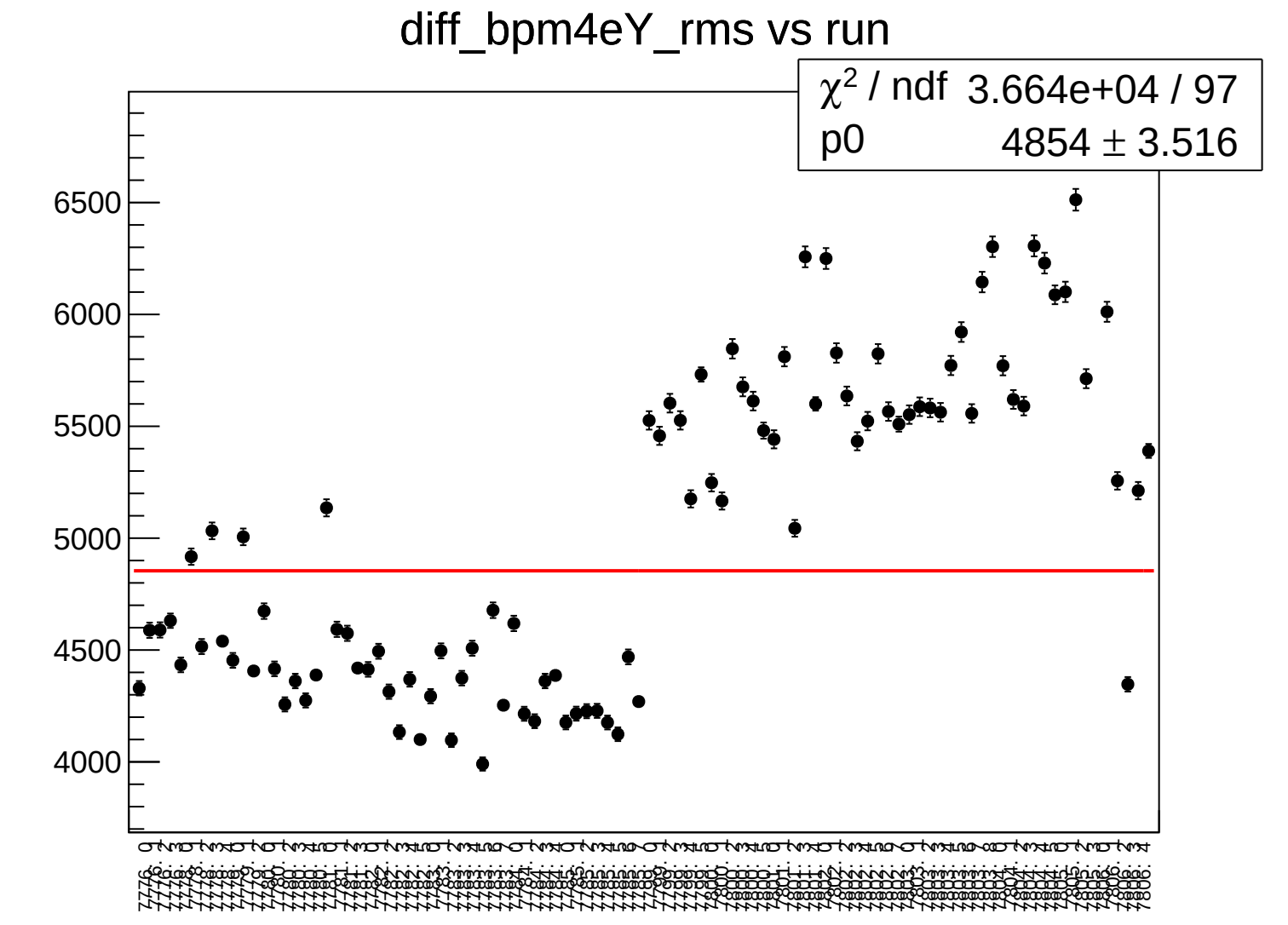

diff_bpm4eX_mean vs run
χ² / ndf 71.06 / 97
p0 −10.6 ± 25.57
pull
Entries 98
Mean −1571
Std Dev 0

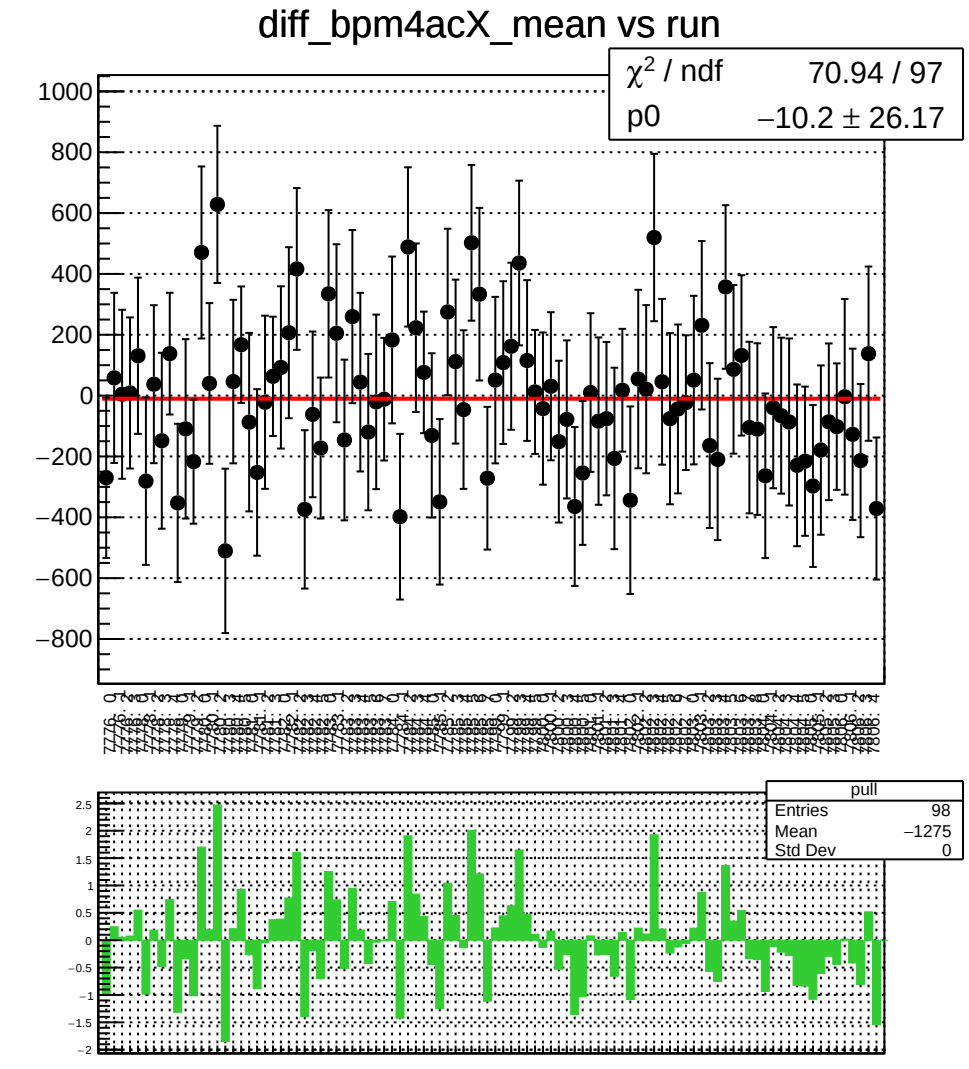

pull1D
Entries 98
Mean 0.002252
Std Dev 0.8515

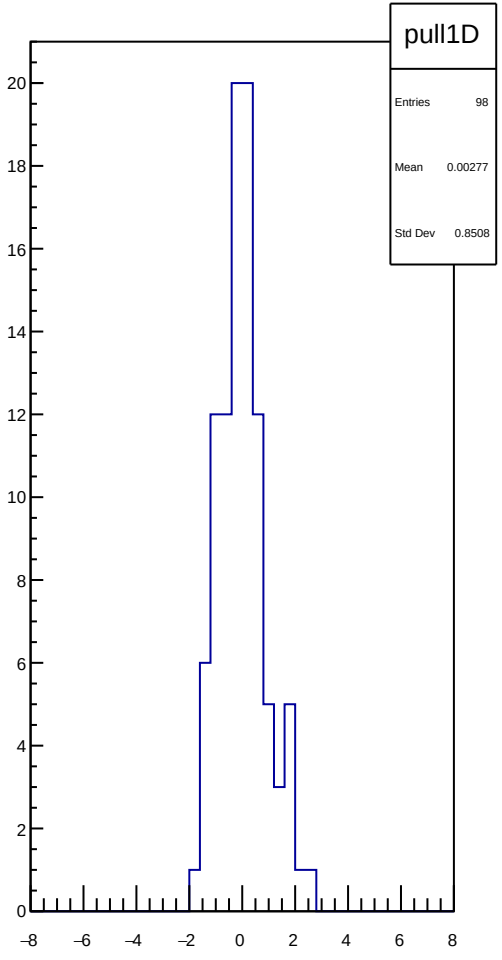

diff_bpm4eX_rms vs run
χ² / ndf 3683 / 97
p0 2.518e+04 ± 18.08
30000
29000
28000
27000
26000
25000
24000
23000
22000


diff_bpm4eY_mean vs run
χ² / ndf 98.05 / 97
p0 2.602 ± 4.972
pull
Entries 98
Mean 129.6
Std Dev 0

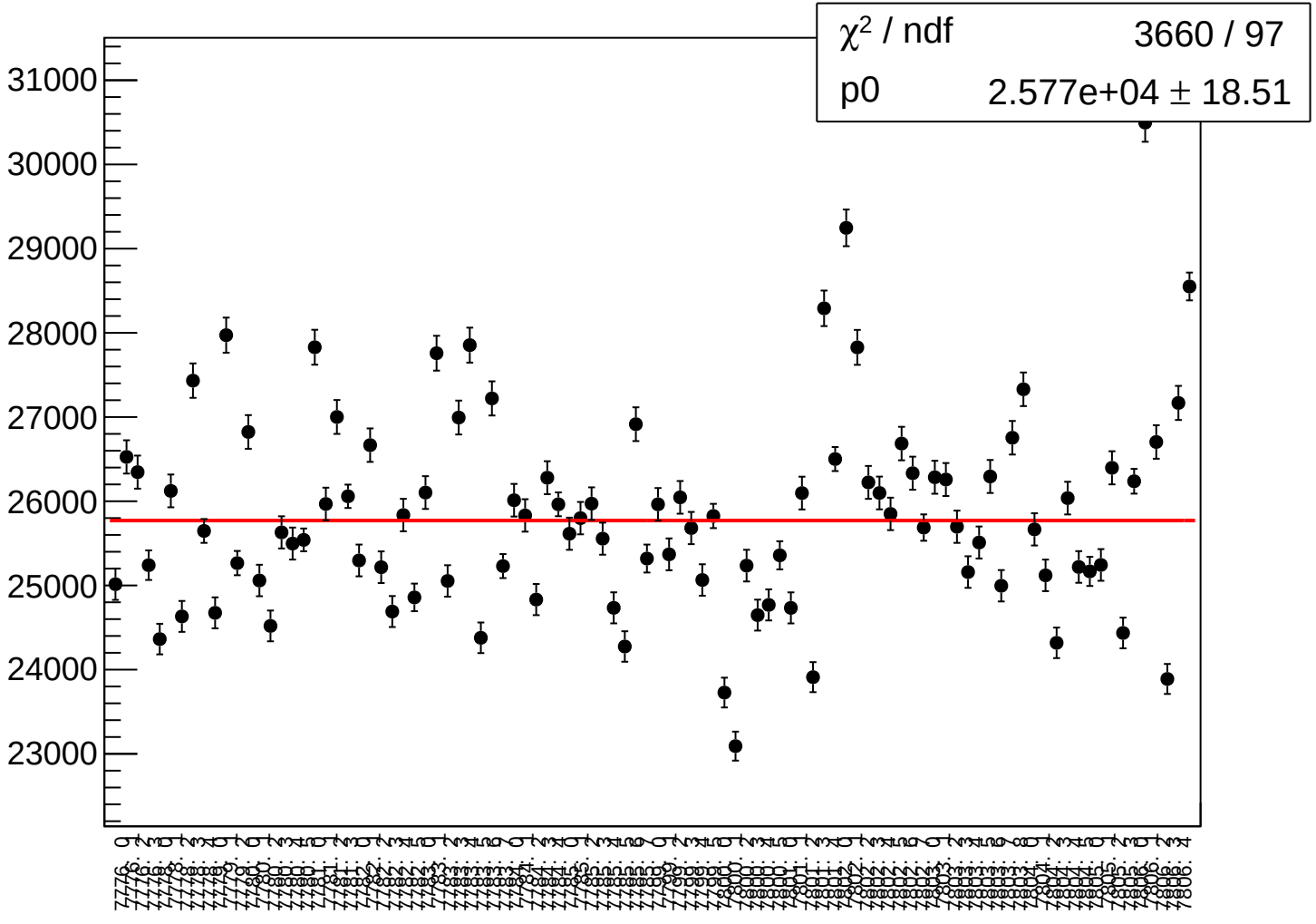

pull1D
Entries 98
Mean −0.0254
Std Dev 1

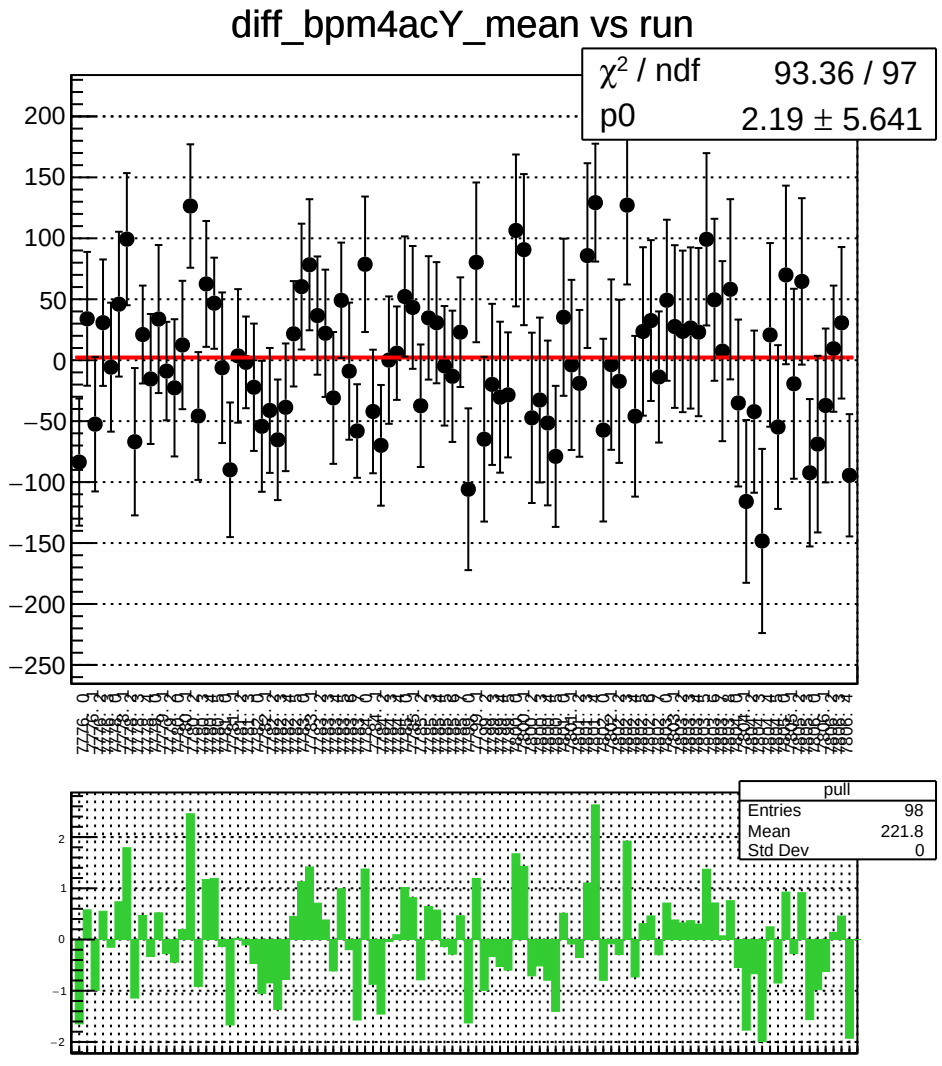

diff_bpm4eY_rms vs run
χ² / ndf 3.664e+04 / 97
p0 4854 ± 3.516
6500
6000
5500
5000
4500
4000

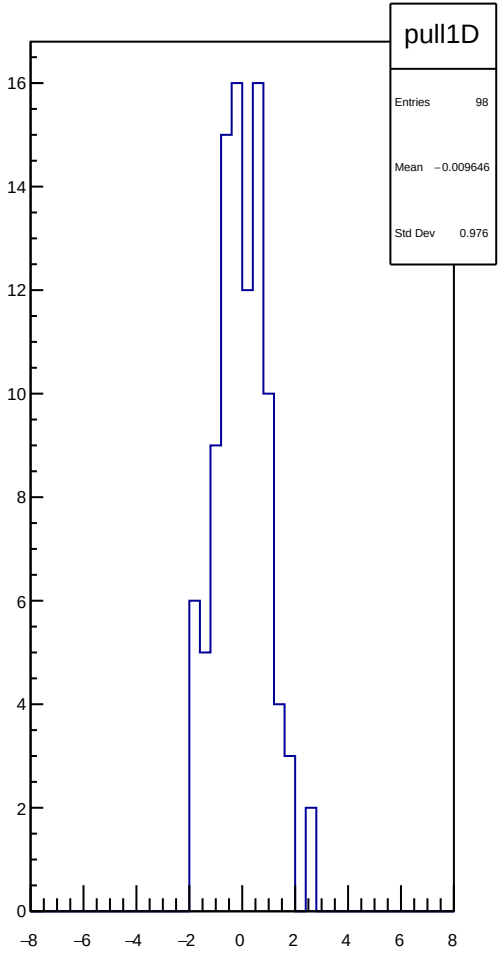

diff_bpm4acX_mean vs run
χ² / ndf 70.94 / 97
p0 −10.2 ± 26.17
pull
Entries 98
Mean −1275
Std Dev 0

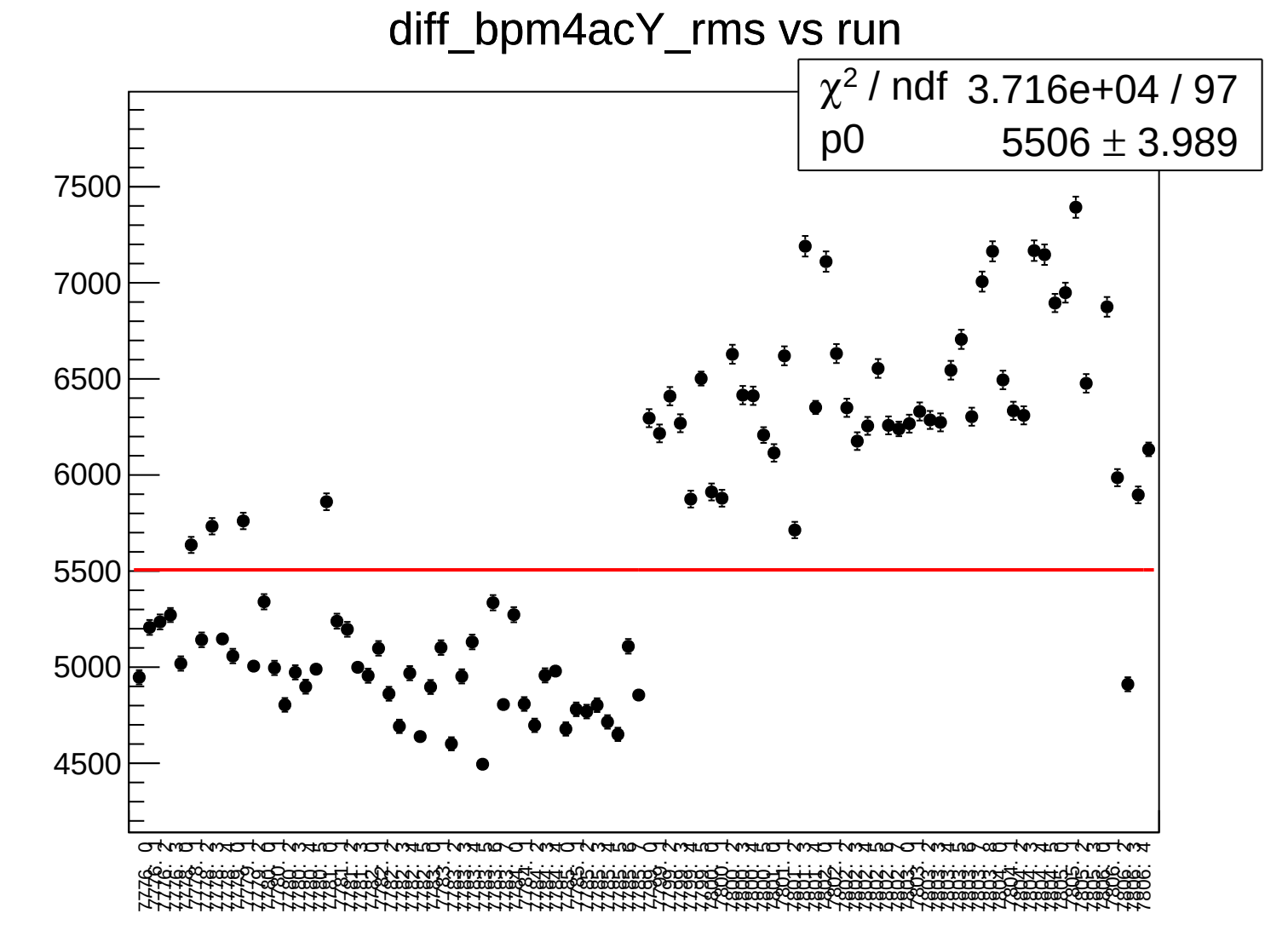

pull1D
Entries 98
Mean 0.00277
Std Dev 0.8508

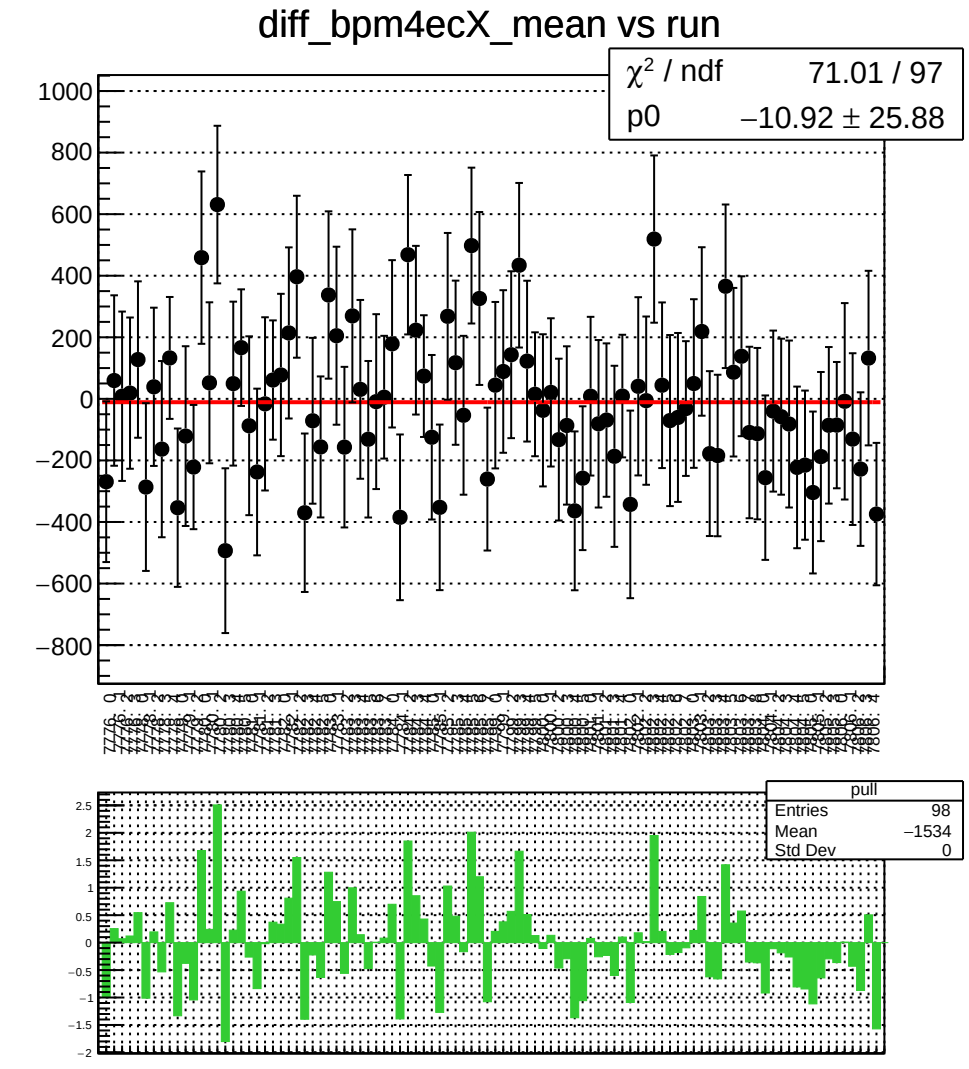
diff_bpm4acX_rms vs run

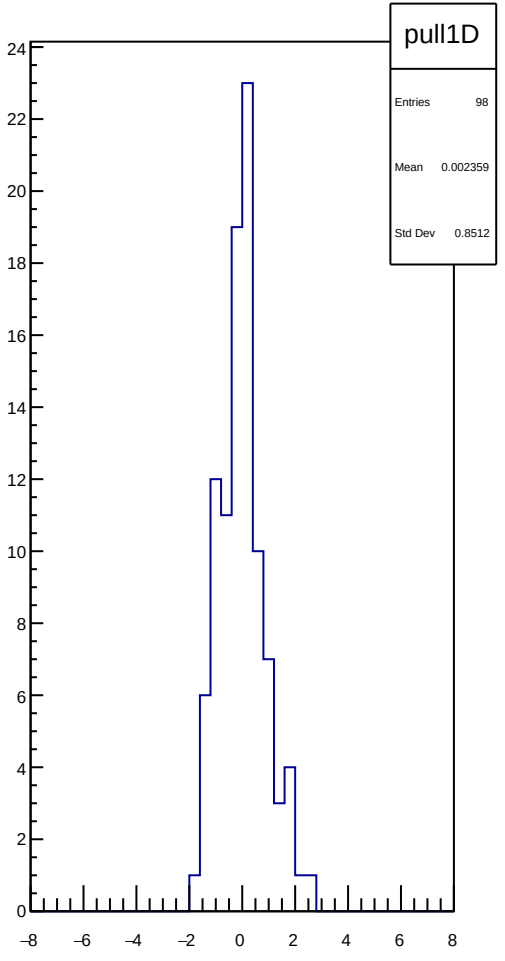


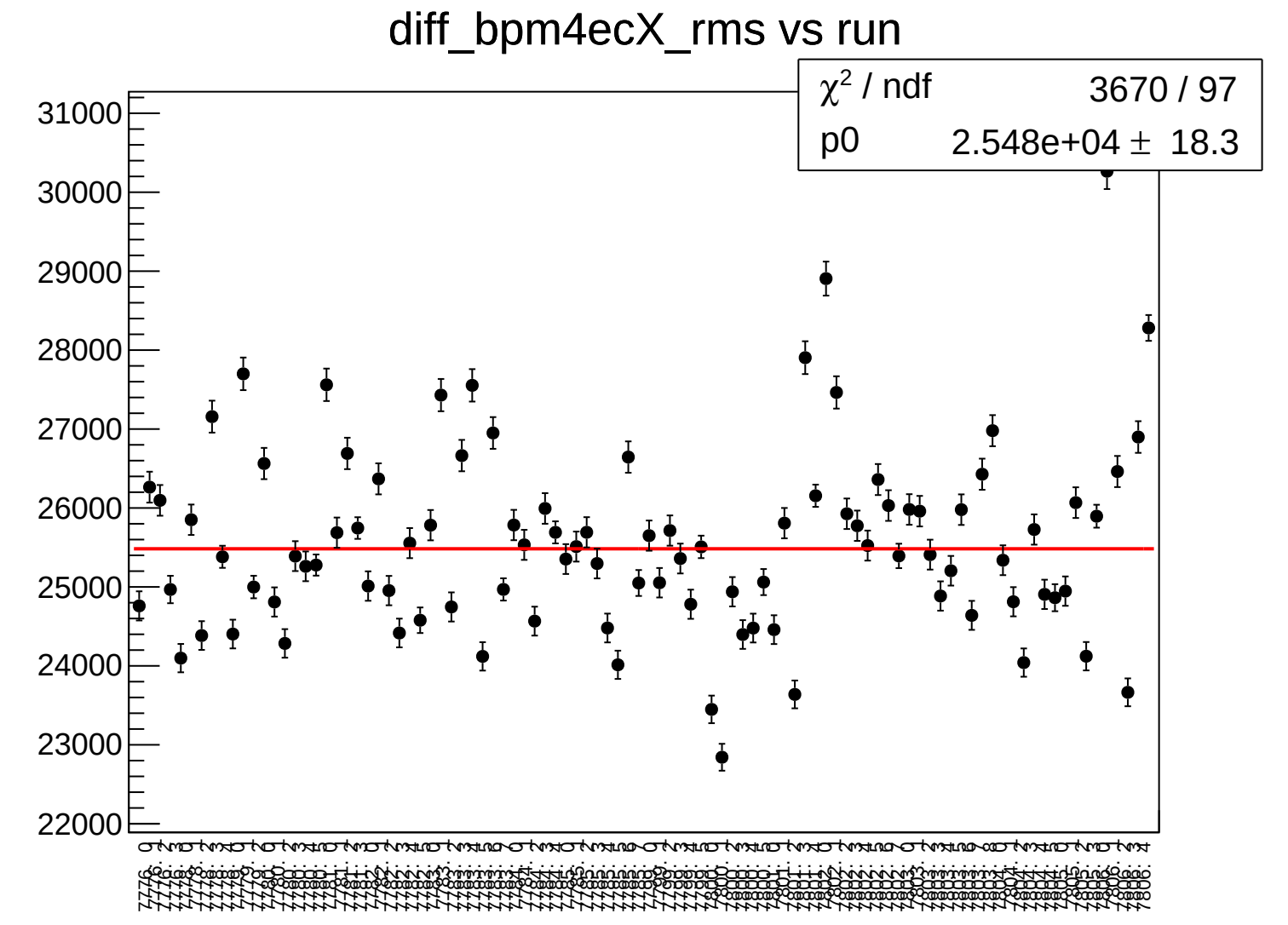

diff_bpm4acY_mean vs run
χ² / ndf 93.36 / 97
p0 2.19 ± 5.641
pull
Entries 98
Mean 221.8
Std Dev 0

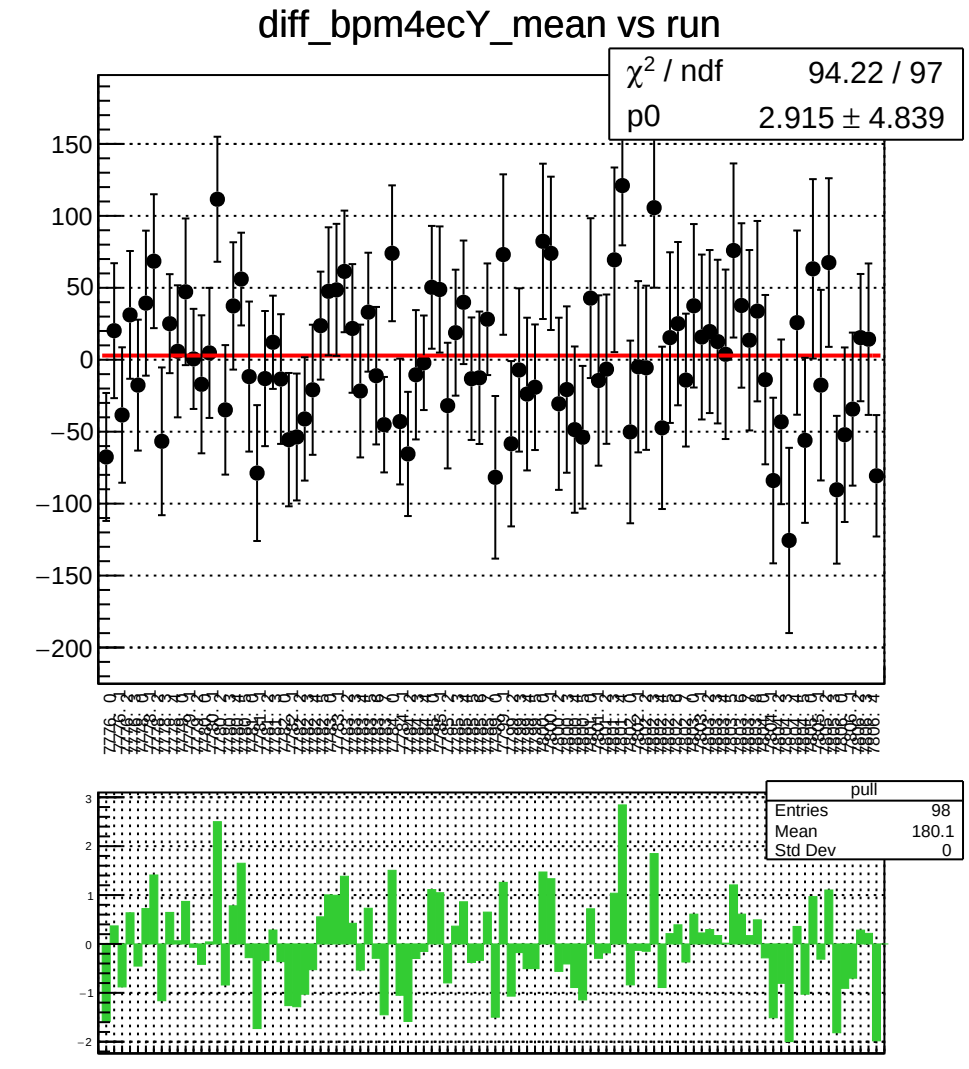

pull1D
Entries 98
Mean −0.009646
Std Dev 0.976

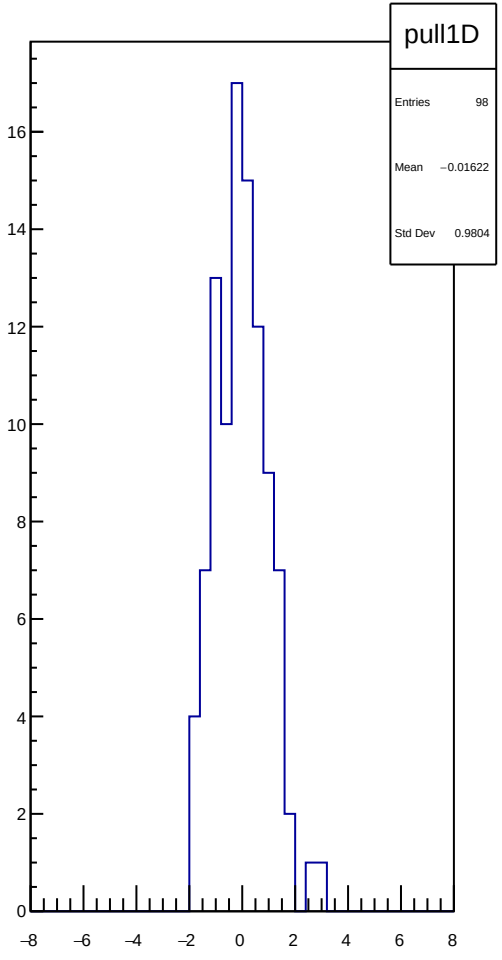

diff_bpm4acY_rms vs run
χ^2 / ndf 3.716e+04 / 97
p0 5506 ± 3.989
7500
7000
6500
6000
5500
5000
4500

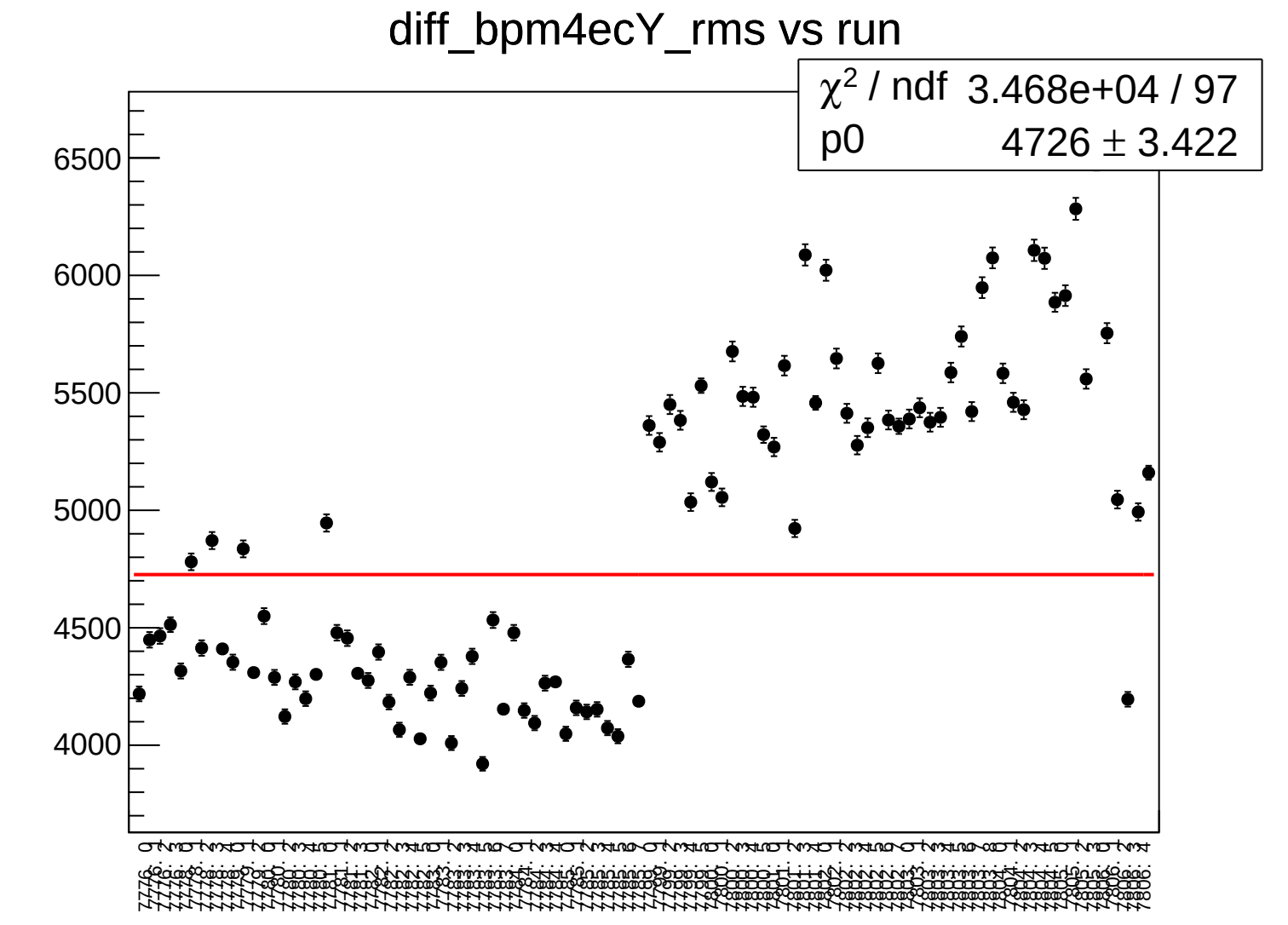

diff_bpm4ecX_mean vs run
χ² / ndf 71.01 / 97
p0 −10.92 ± 25.88
pull
Entries 98
Mean −1534
Std Dev 0

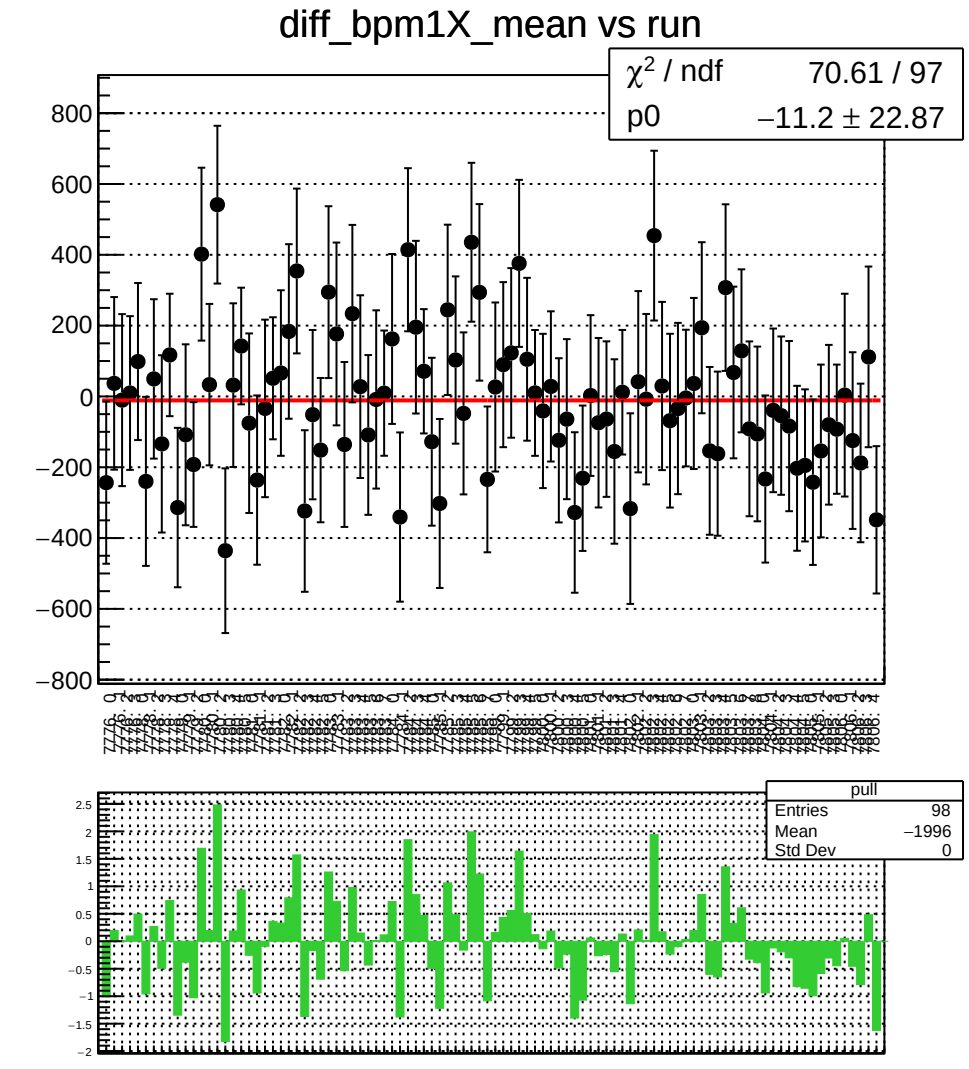

pull1D
Entries 98
Mean 0.002359
Std Dev 0.8512

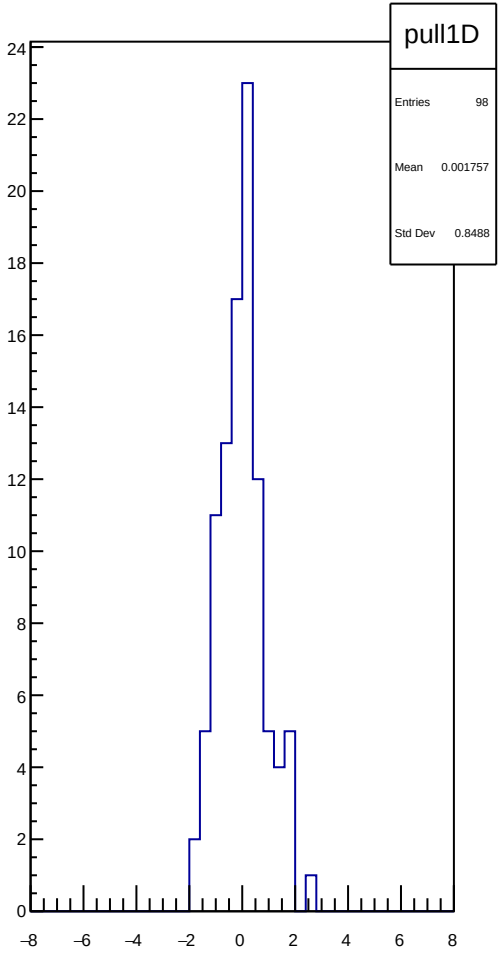

diff_bpm4ecX_rms vs run
χ² / ndf 3670 / 97
p0 2.548e+04 ± 18.3
31000
30000
29000
28000
27000
26000
25000
24000
23000
22000

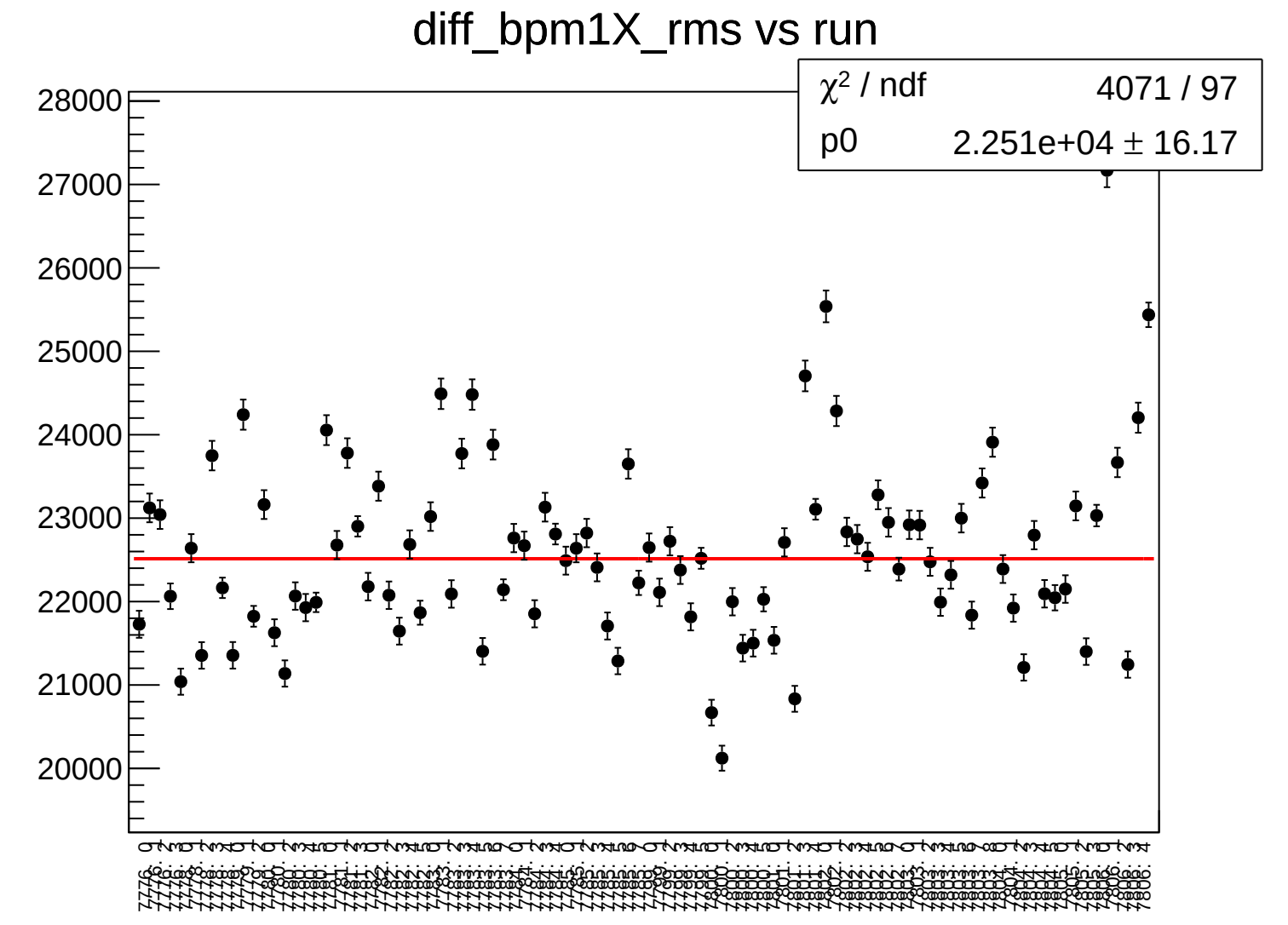

diff_bpm4ecY_mean vs run
χ^2 / ndf 94.22 / 97
p0 2.915 ± 4.839
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 180.1
Std Dev 0
3
2
1
0
−1
−2

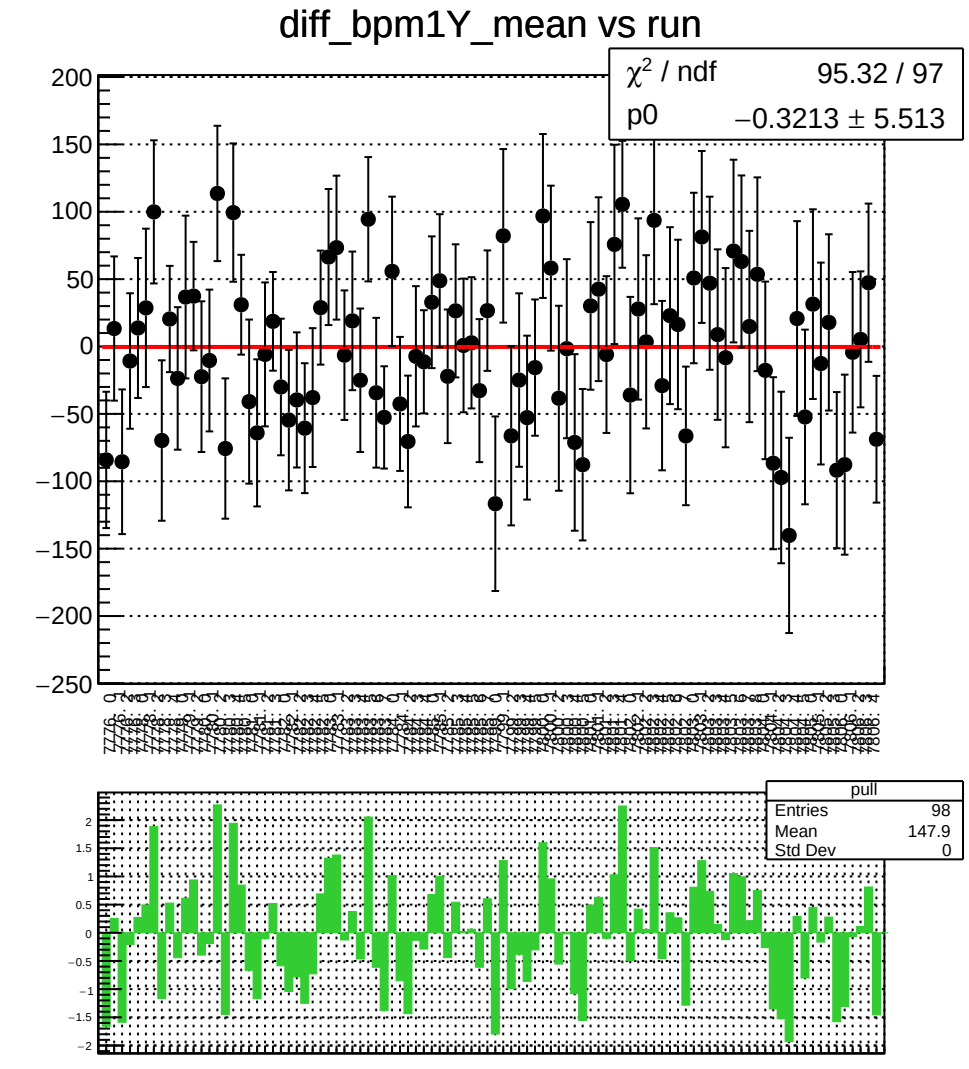

pull1D
Entries 98
Mean −0.01622
Std Dev 0.9804
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

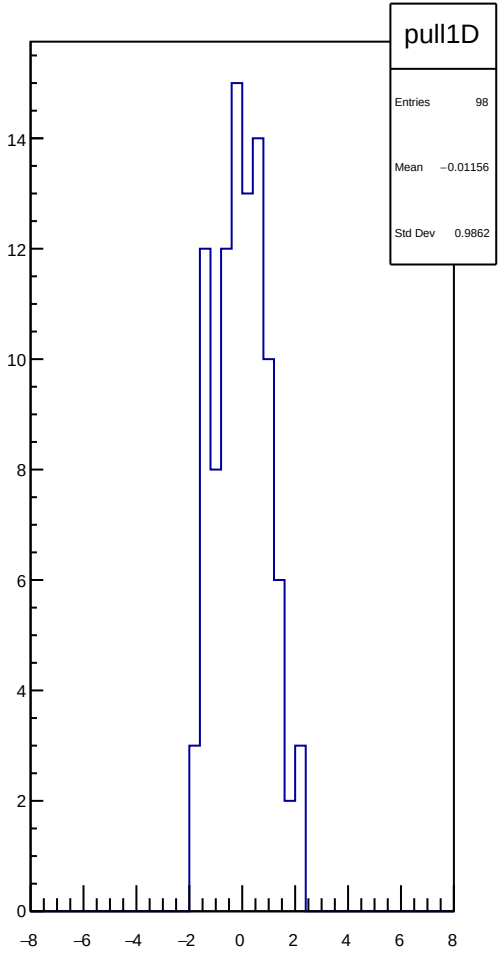

diff_bpm4ecY_rms vs run
χ² / ndf 3.468e+04 / 97
p0 4726 ± 3.422
6500
6000
5500
5000
4500
4000

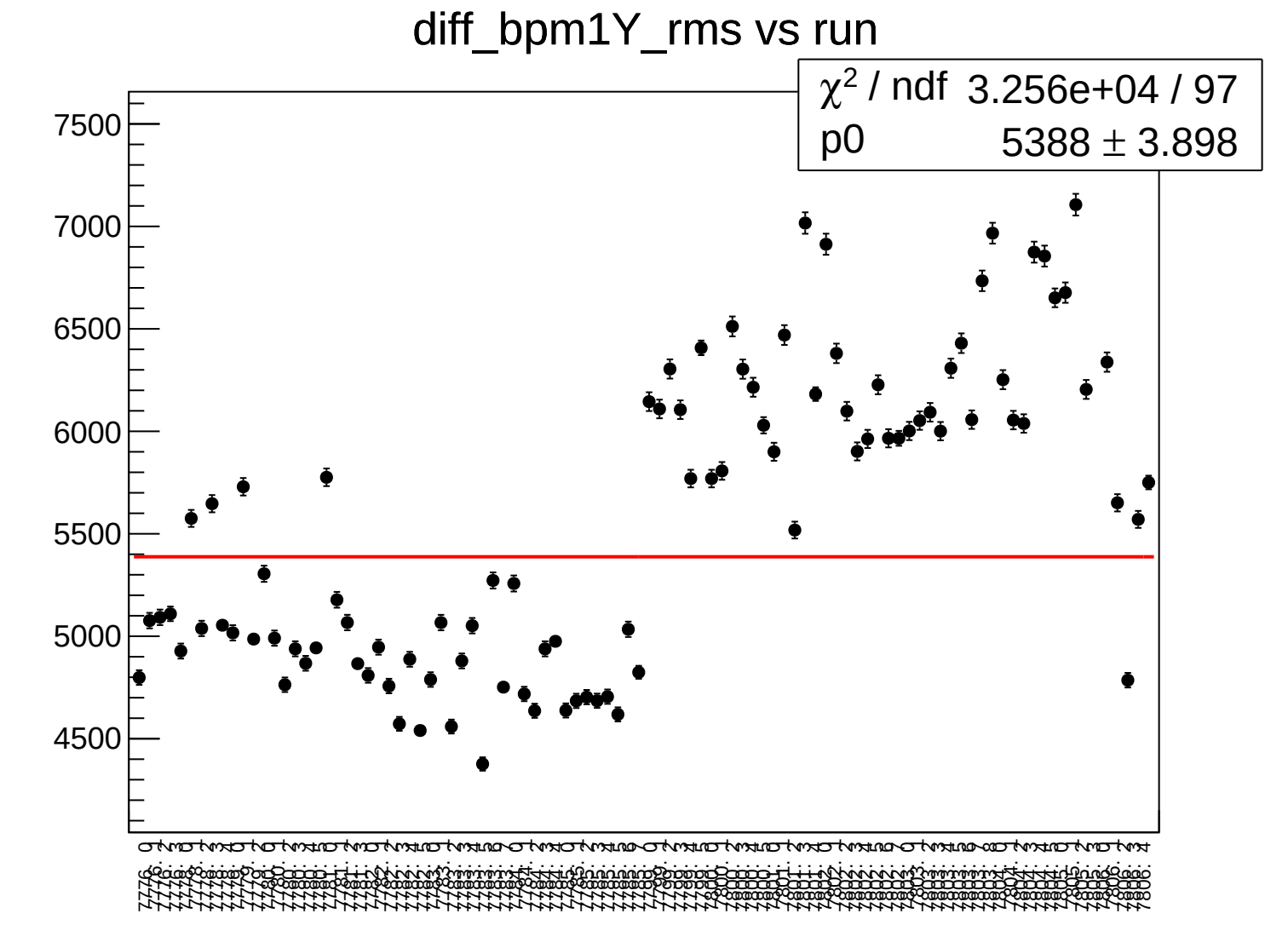

diff_bpm1X_mean vs run
χ^2 / ndf 70.61 / 97
p0 −11.2 ± 22.87
pull
Entries 98
Mean −1996
Std Dev 0

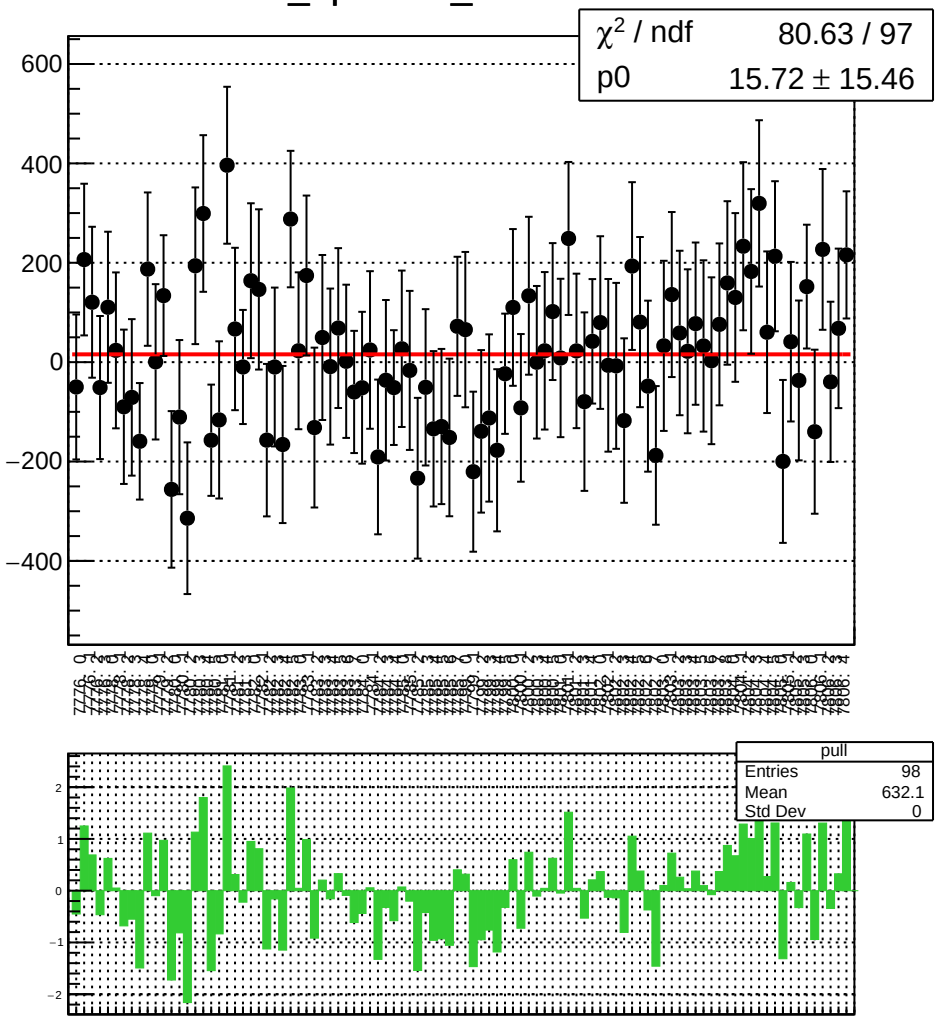

pull1D
Entries 98
Mean 0.001757
Std Dev 0.8488

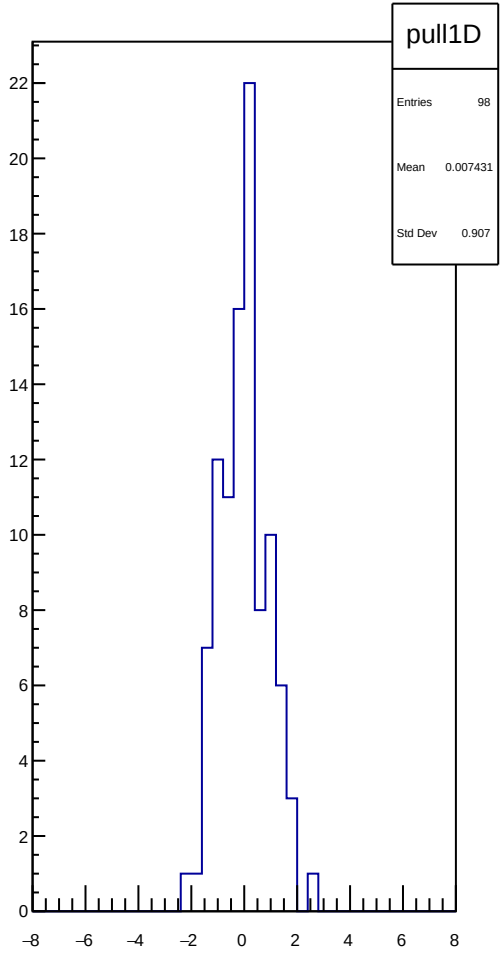

diff_bpm1X_rms vs run
χ² / ndf 4071 / 97
p0 2.251e+04 ± 16.17
28000
27000
26000
25000
24000
23000
22000
21000
20000

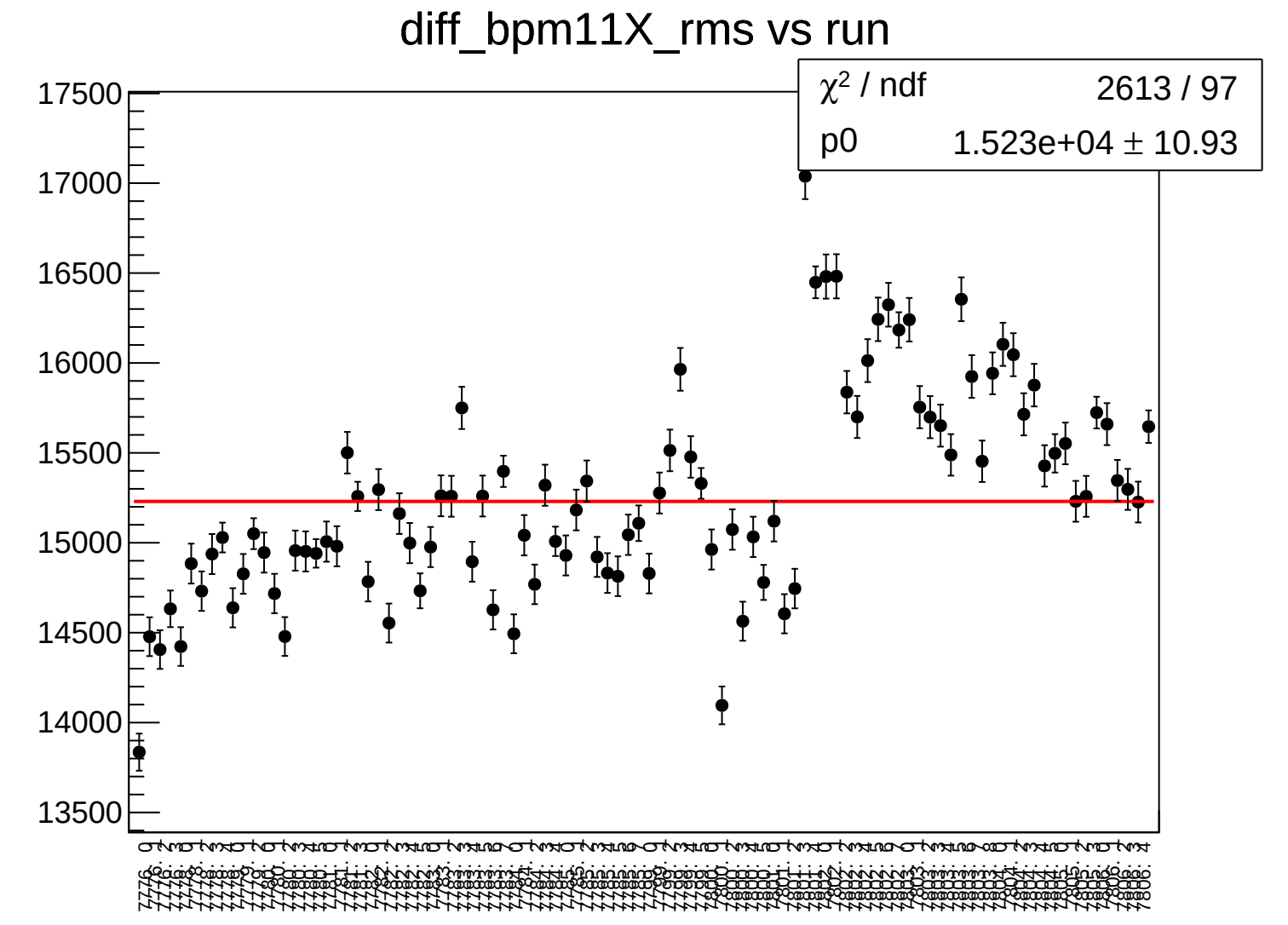

diff_bpm1Y_mean vs run
χ² / ndf 95.32 / 97
p0 −0.3213 ± 5.513
pull
Entries 98
Mean 147.9
Std Dev 0

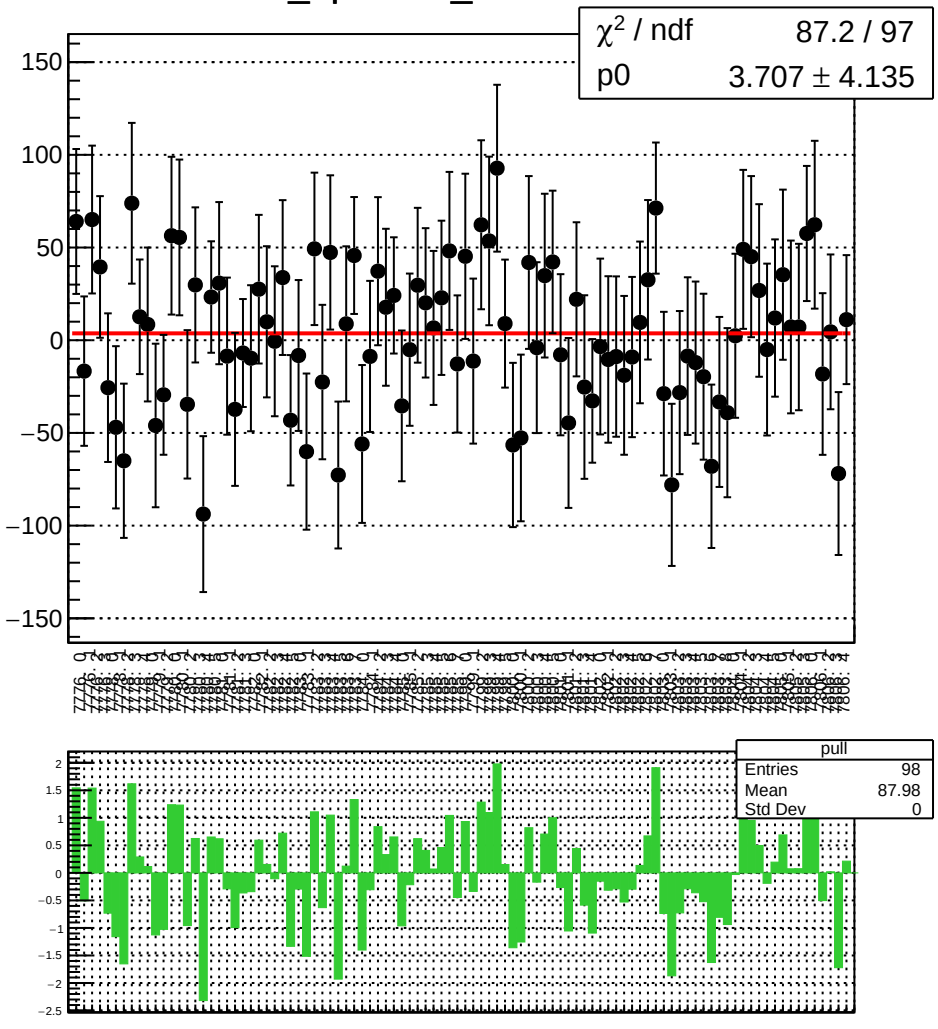

pull1D
Entries 98
Mean −0.01156
Std Dev 0.9862

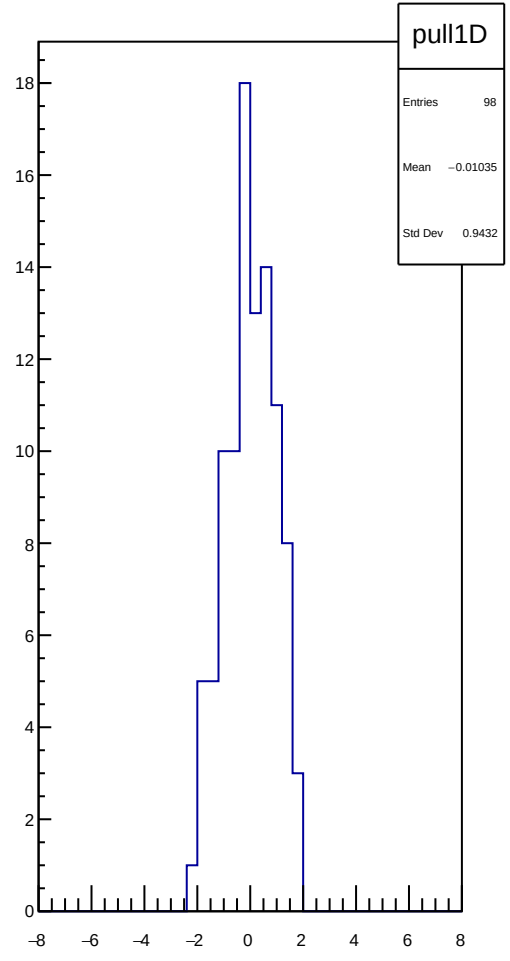

diff_bpm1Y_rms vs run
χ^2 / ndf 3.256e+04 / 97
p0 5388 ± 3.898
7500
7000
6500
6000
5500
5000
4500

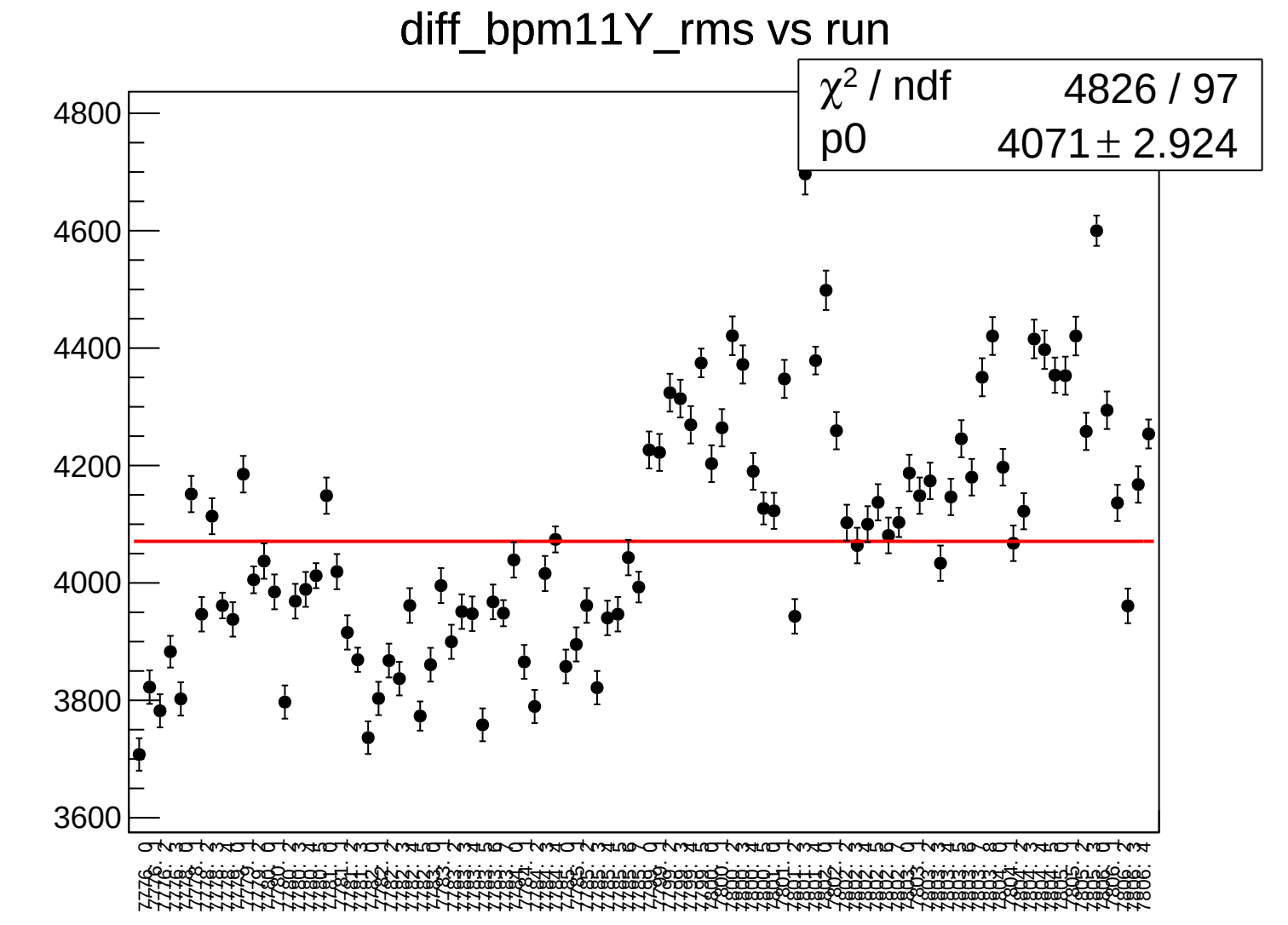

diff_bpm11X_mean vs run
χ² / ndf 80.63 / 97
p0 15.72 ± 15.46
600
400
200
0
−200
−400
pull
Entries 98
Mean 632.1
Std Dev 0
2
1
0
−1
−2

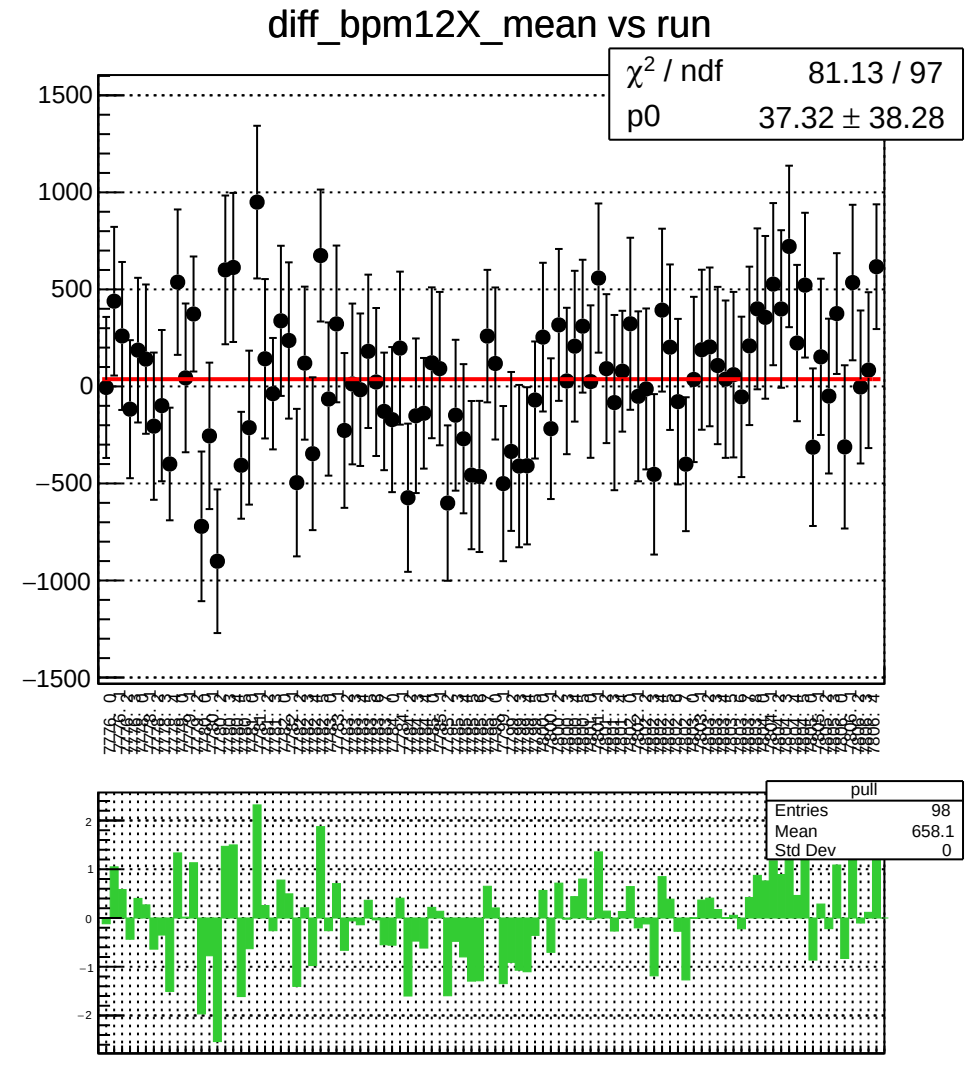

pull1D
Entries 98
Mean 0.007431
Std Dev 0.907
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

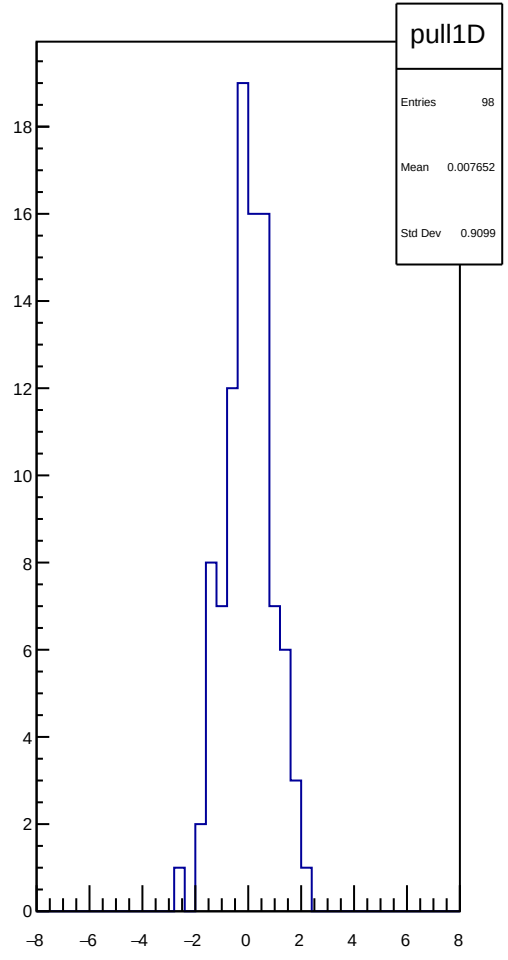

diff_bpm11X_rms vs run
χ² / ndf 2613 / 97
p0 1.523e+04 ± 10.93
17500
17000
16500
16000
15500
15000
14500
14000
13500

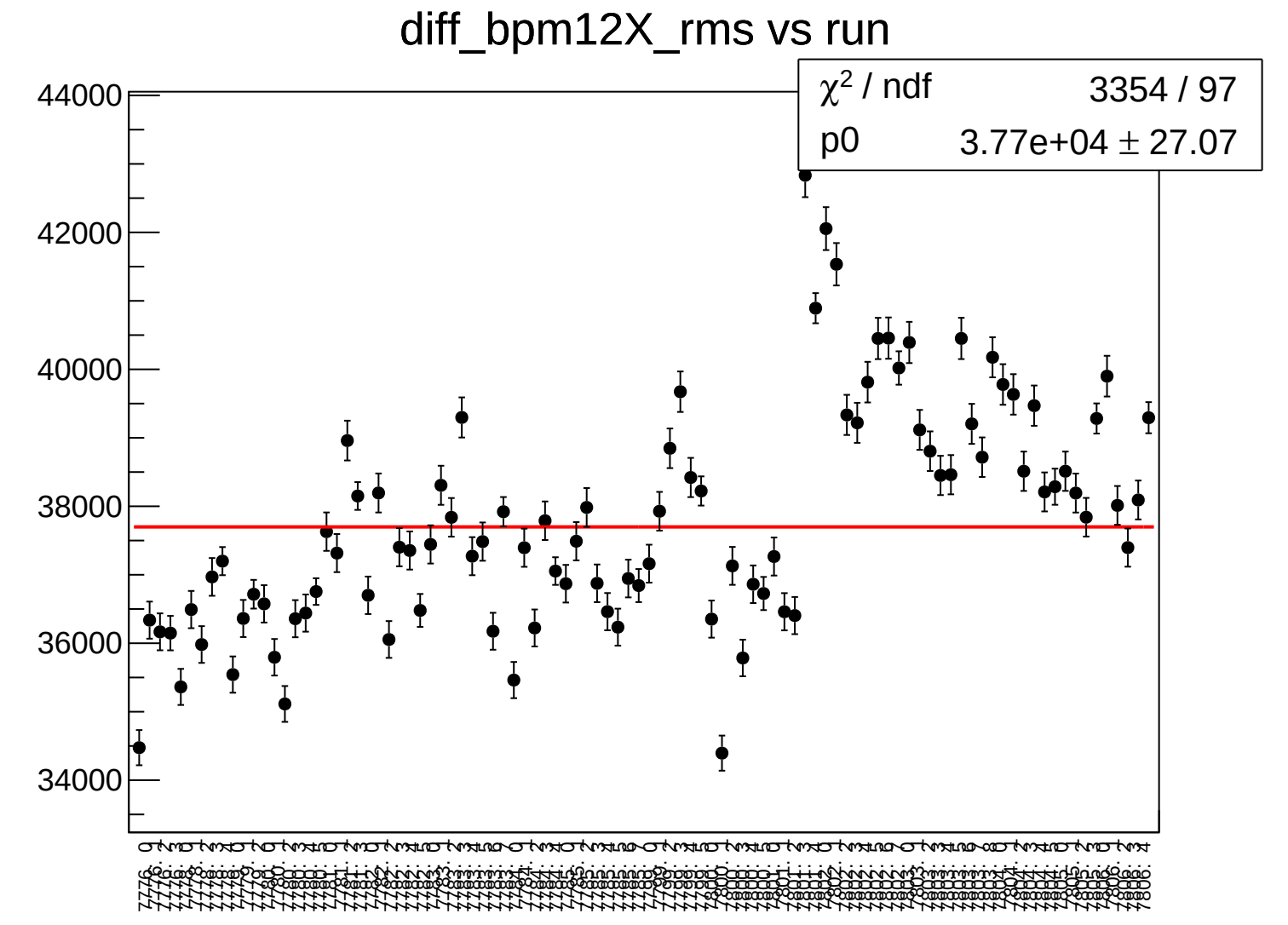

diff_bpm11Y_mean vs run
χ^2 / ndf 87.2 / 97
p0 3.707 ± 4.135
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 87.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

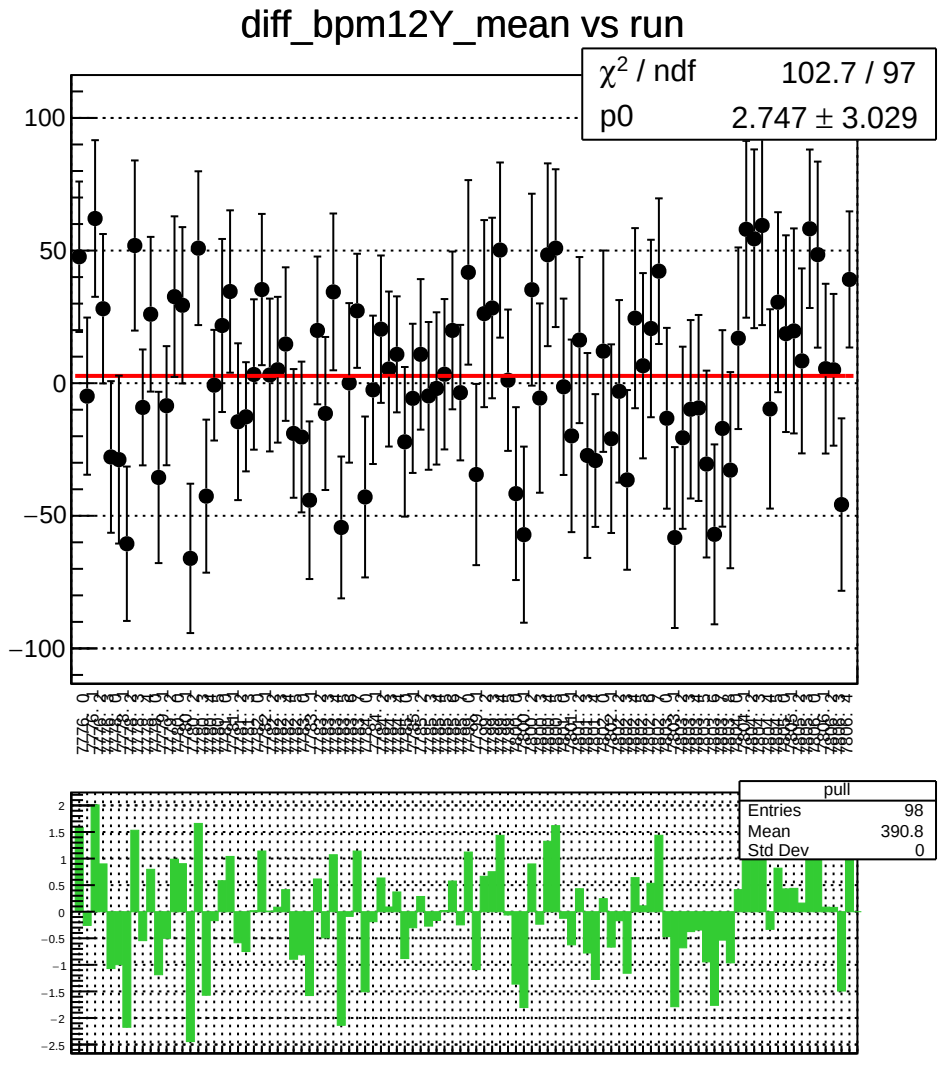

pull1D
Entries 98
Mean −0.01035
Std Dev 0.9432
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

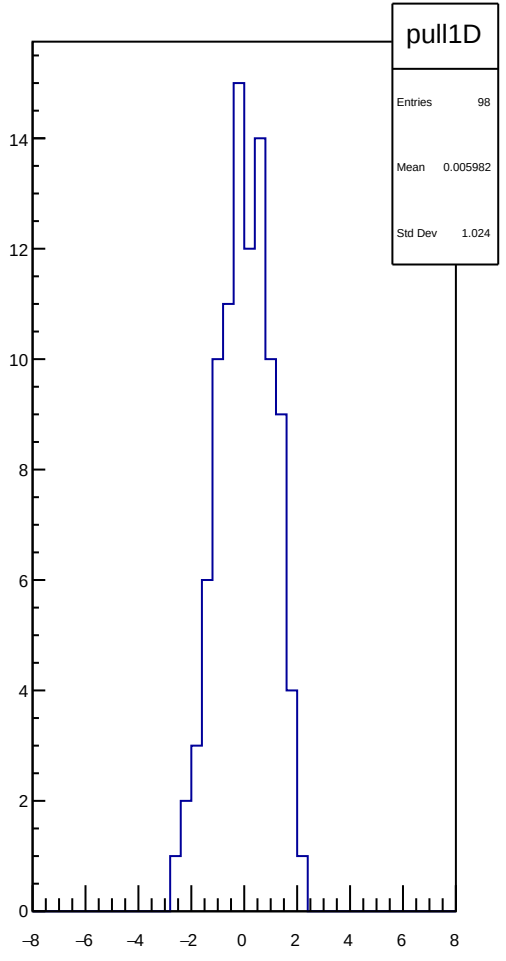

diff_bpm11Y_rms vs run
χ² / ndf 4826 / 97
p0 4071 ± 2.924
4800
4600
4400
4200
4000
3800
3600

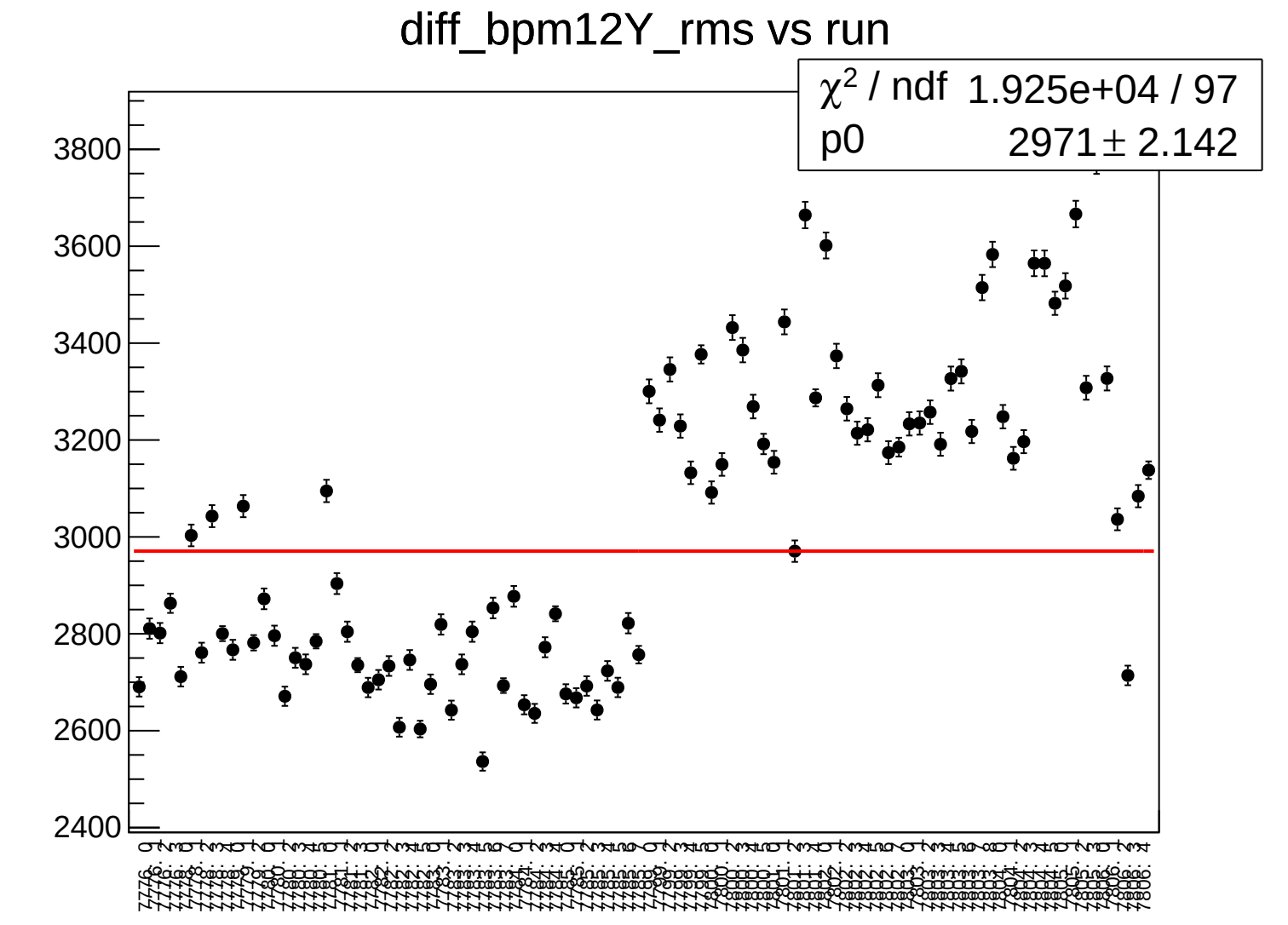

diff_bpm12X_mean vs run
χ² / ndf 81.13 / 97
p0 37.32 ± 38.28
pull
Entries 98
Mean 658.1
Std Dev 0

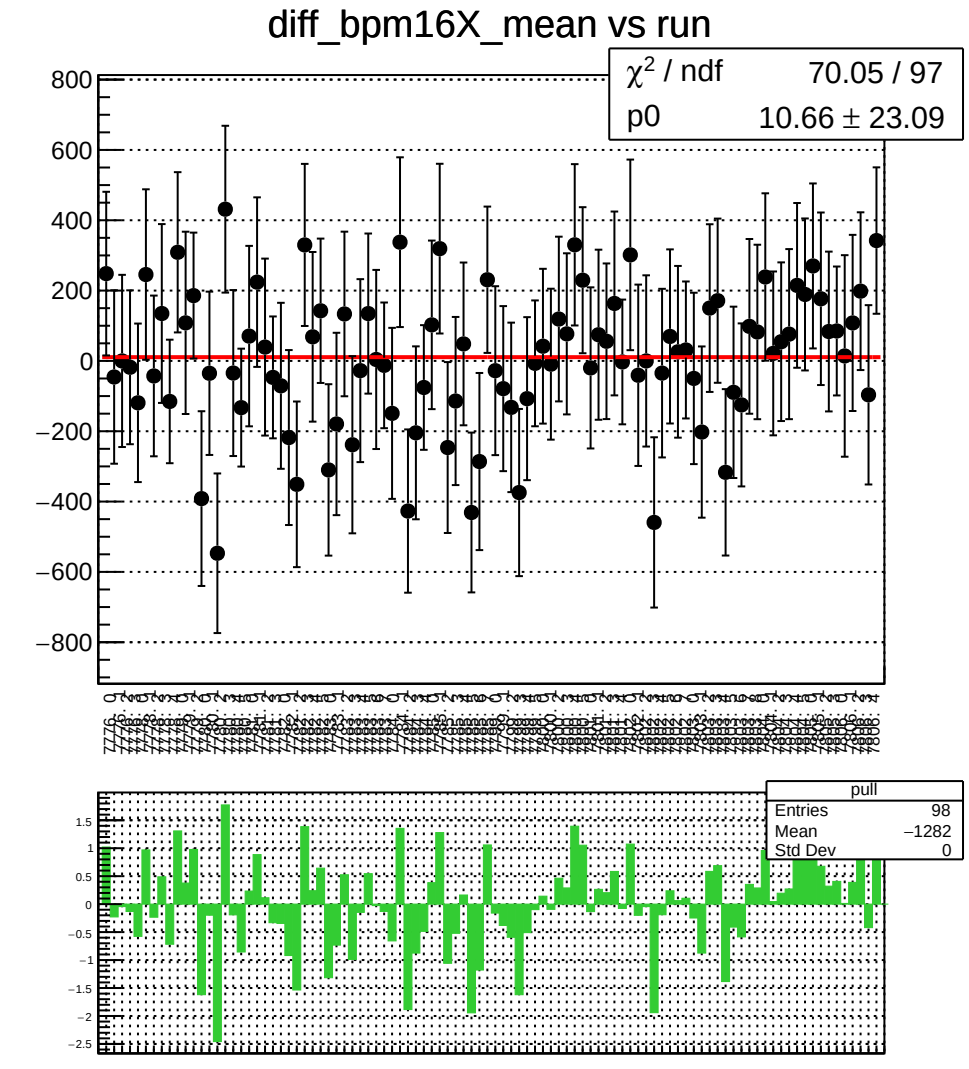

pull1D
Entries 98
Mean 0.007652
Std Dev 0.9099

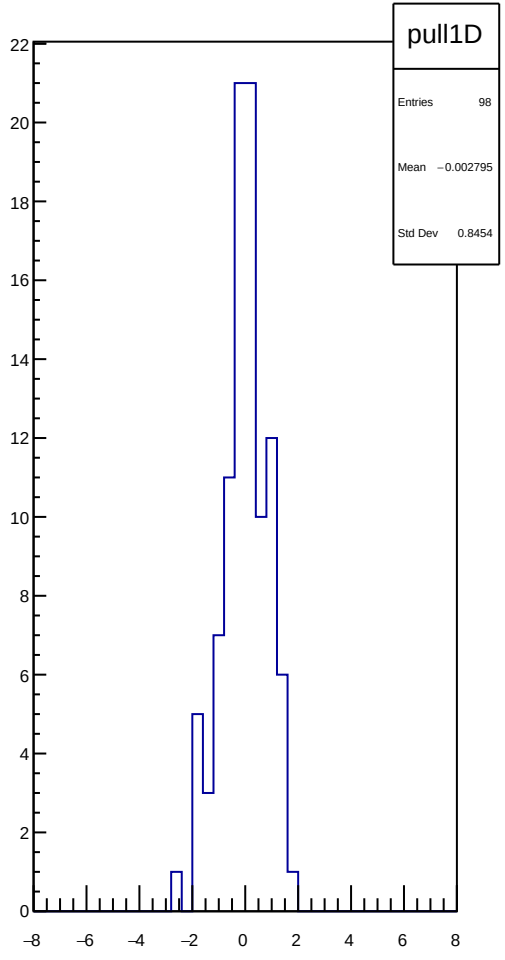

diff_bpm12X_rms vs run
χ^2 / ndf 3354 / 97
p0 3.77e+04 ± 27.07
44000
42000
40000
38000
36000
34000

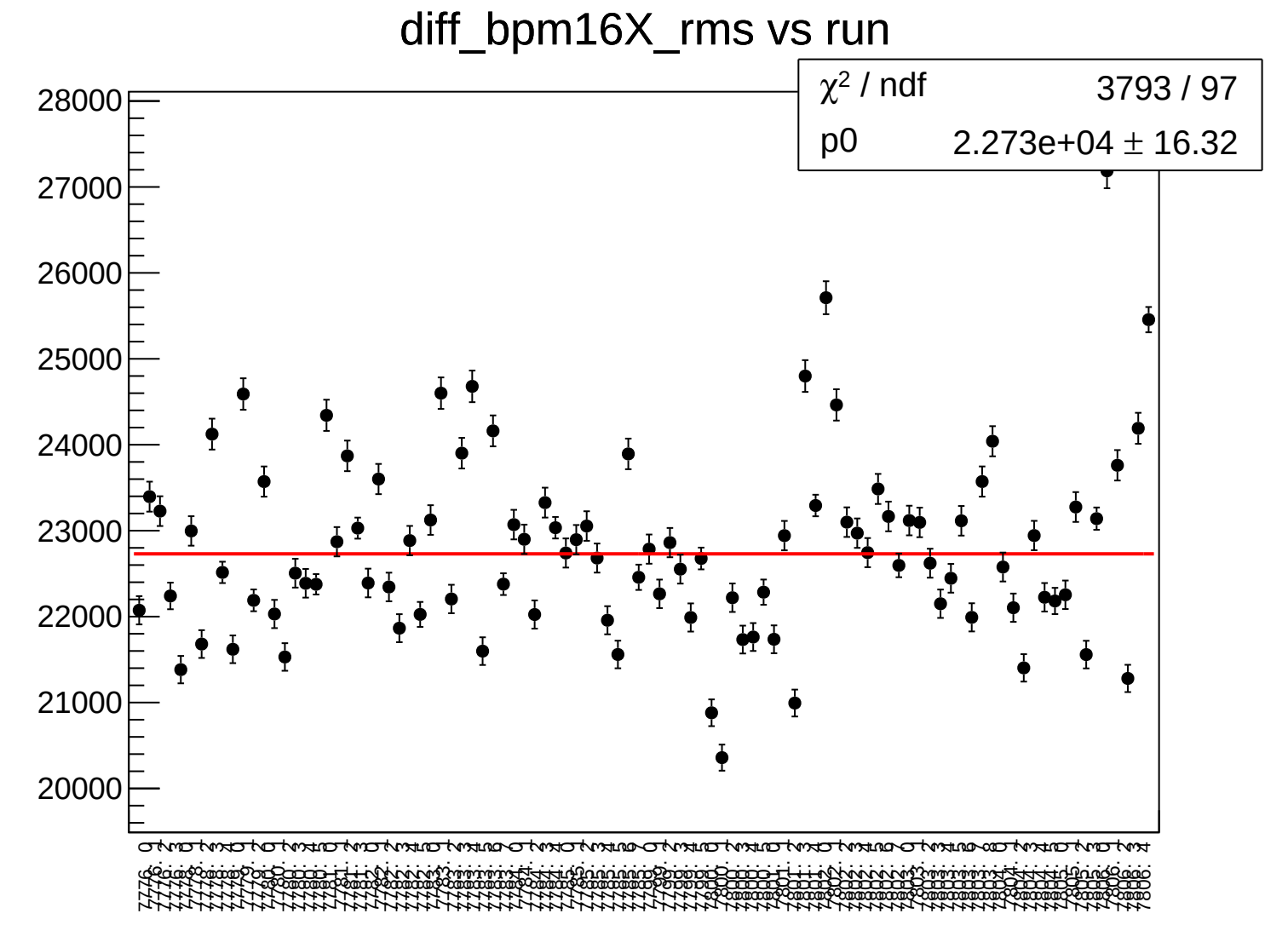

diff_bpm12Y_mean vs run
χ^2 / ndf 102.7 / 97
p0 2.747 ± 3.029
100
50
0
−50
−100
pull
Entries 98
Mean 390.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

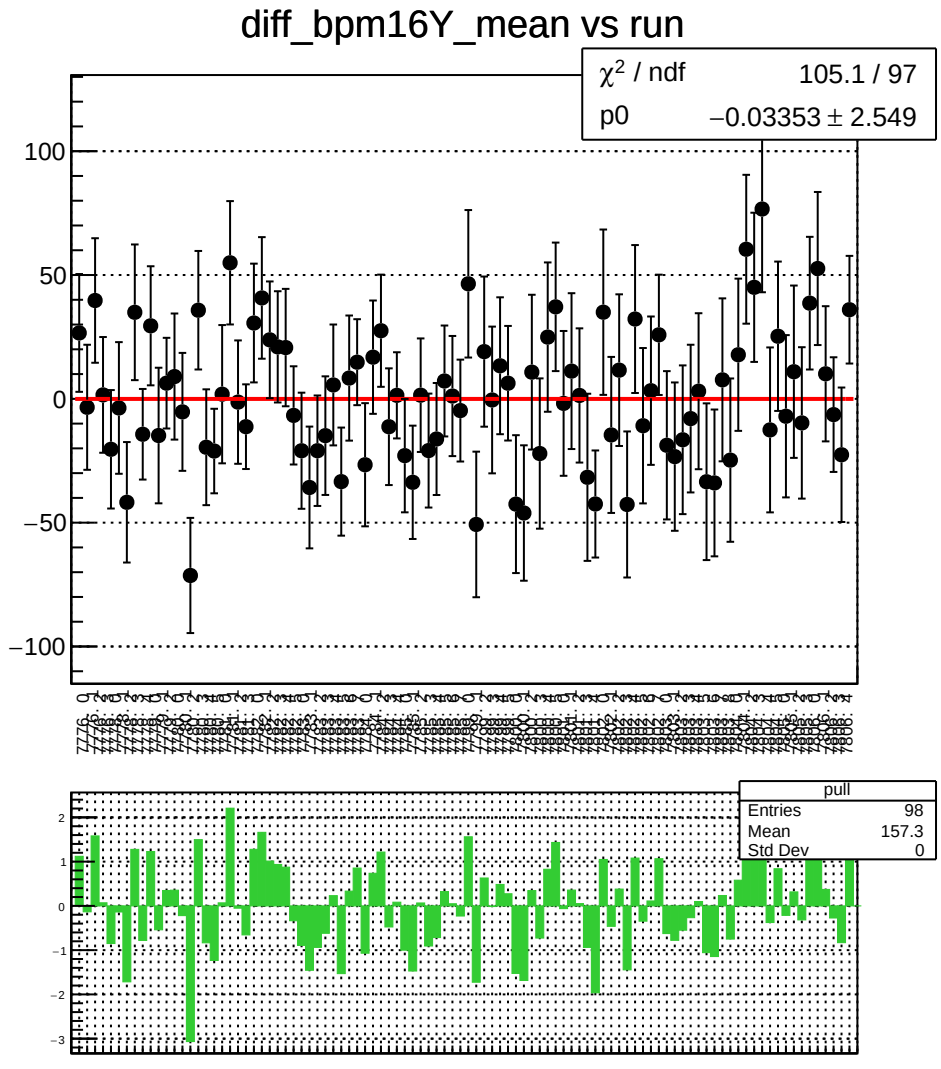

pull1D
Entries 98
Mean 0.005982
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

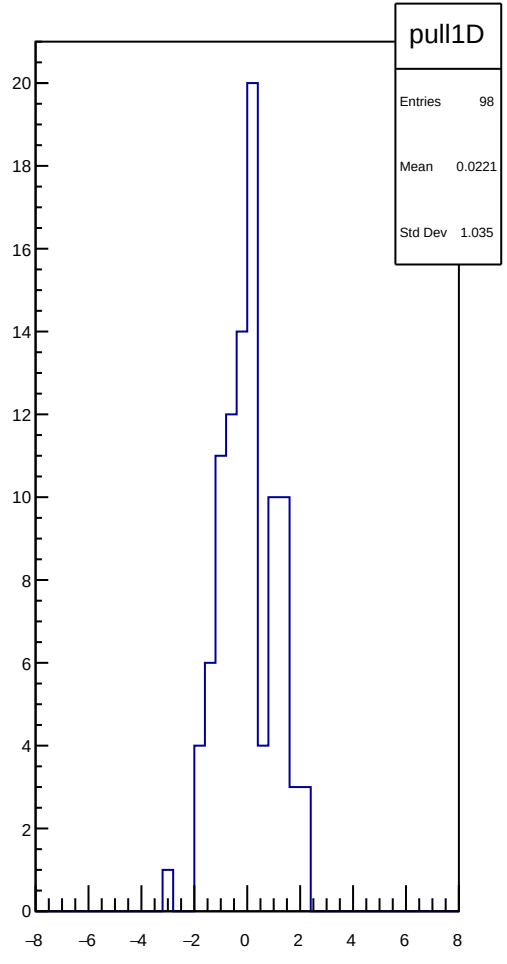

diff_bpm12Y_rms vs run
χ² / ndf 1.925e+04 / 97
p0 2971 ± 2.142
3800
3600
3400
3200
3000
2800
2600
2400

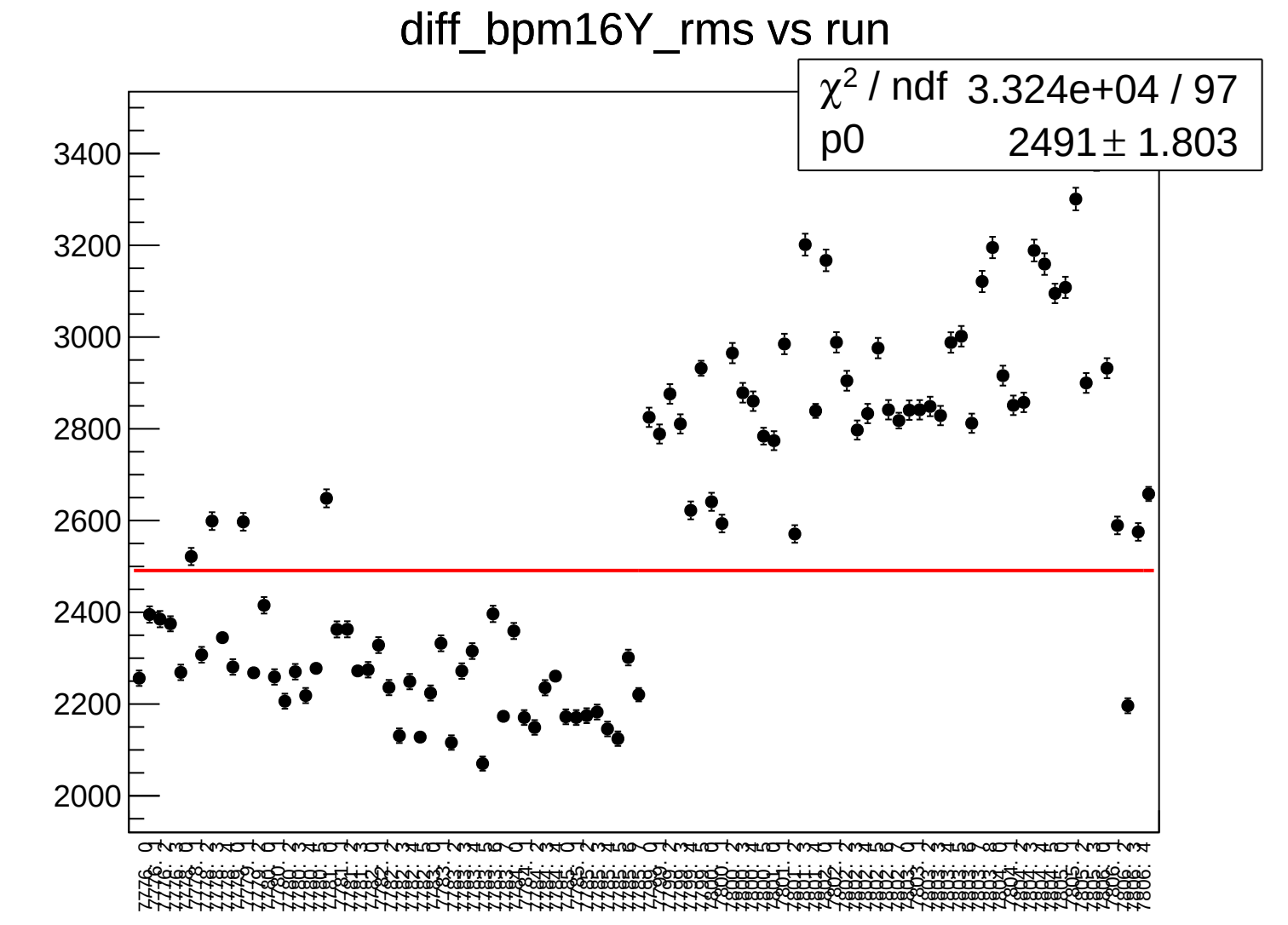

diff_bpm16X_mean vs run
χ^2 / ndf 70.05 / 97
p0 10.66 ± 23.09
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 98
Mean −1282
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

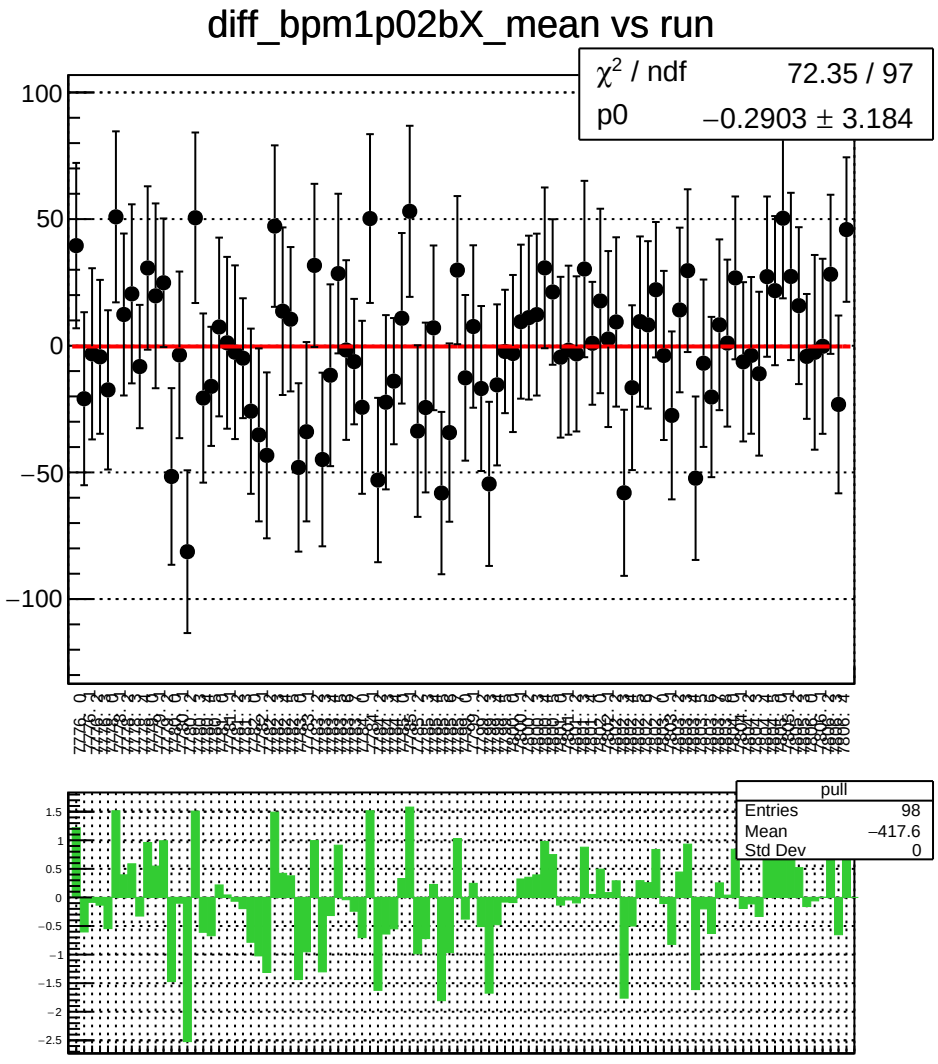

pull1D
Entries 98
Mean −0.002795
Std Dev 0.8454
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

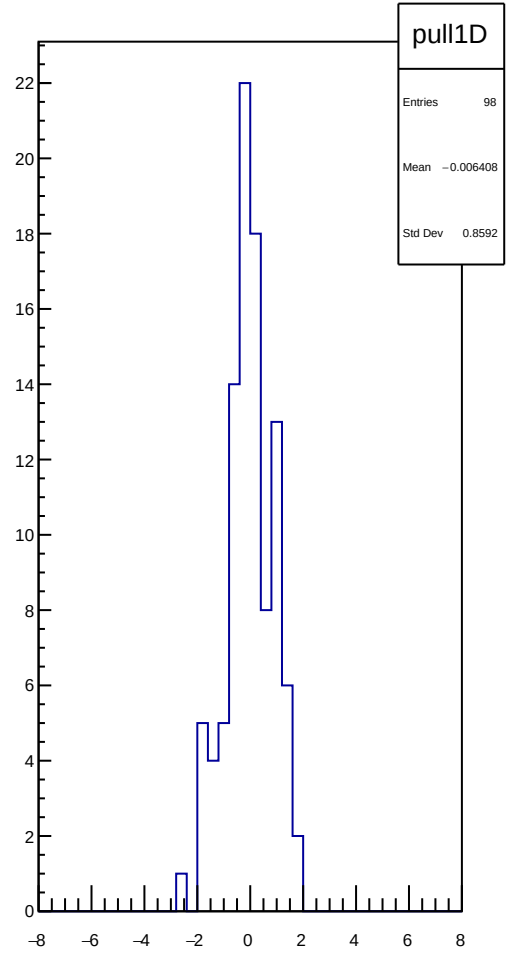

diff_bpm16X_rms vs run
χ² / ndf 3793 / 97
p0 2.273e+04 ± 16.32
28000
27000
26000
25000
24000
23000
22000
21000
20000

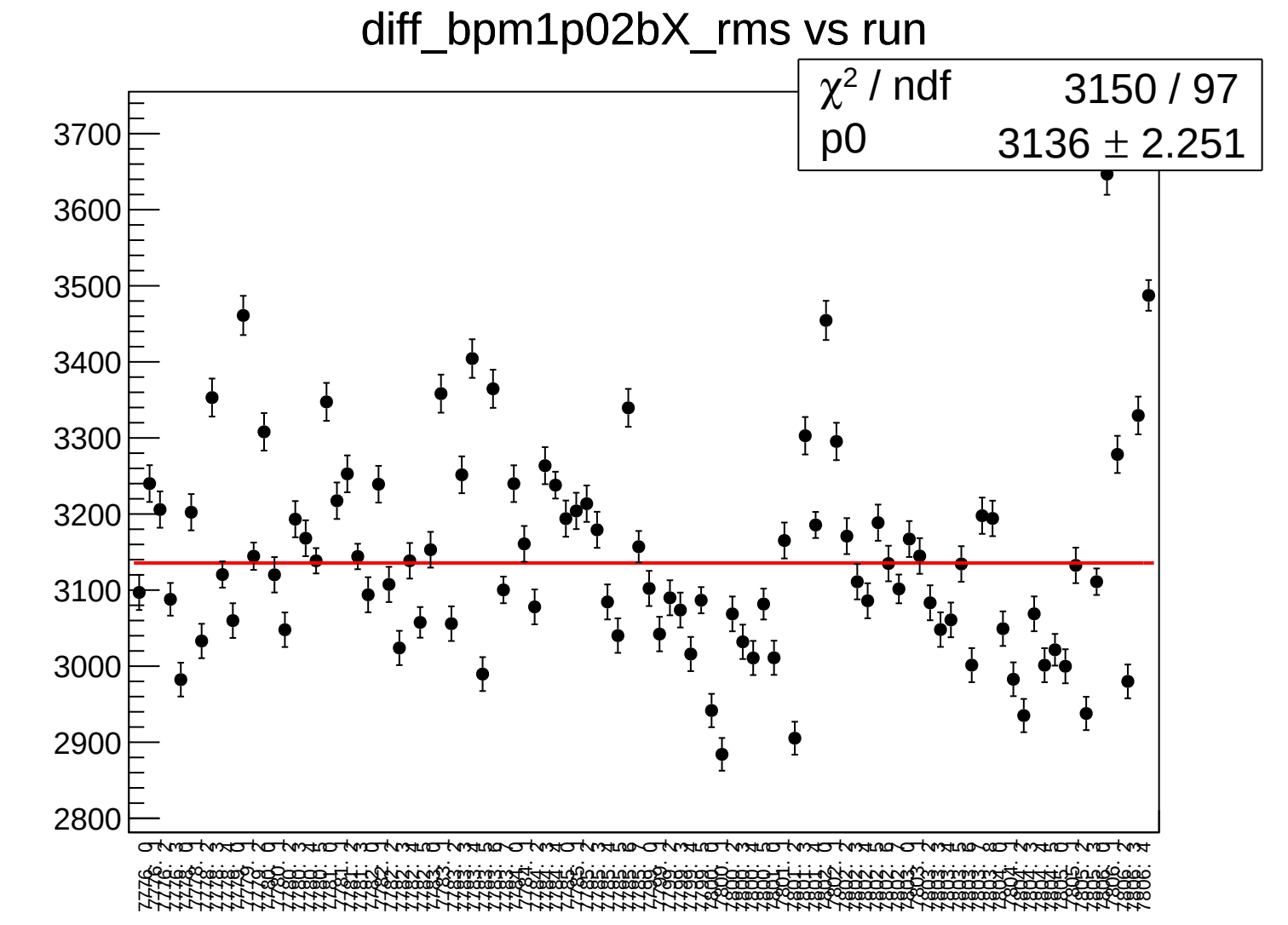

diff_bpm16Y_mean vs run
χ² / ndf 105.1 / 97
p0 −0.03353 ± 2.549
100
50
0
−50
−100
pull
Entries 98
Mean 157.3
Std Dev 0
2
1
0
−1
−2
−3

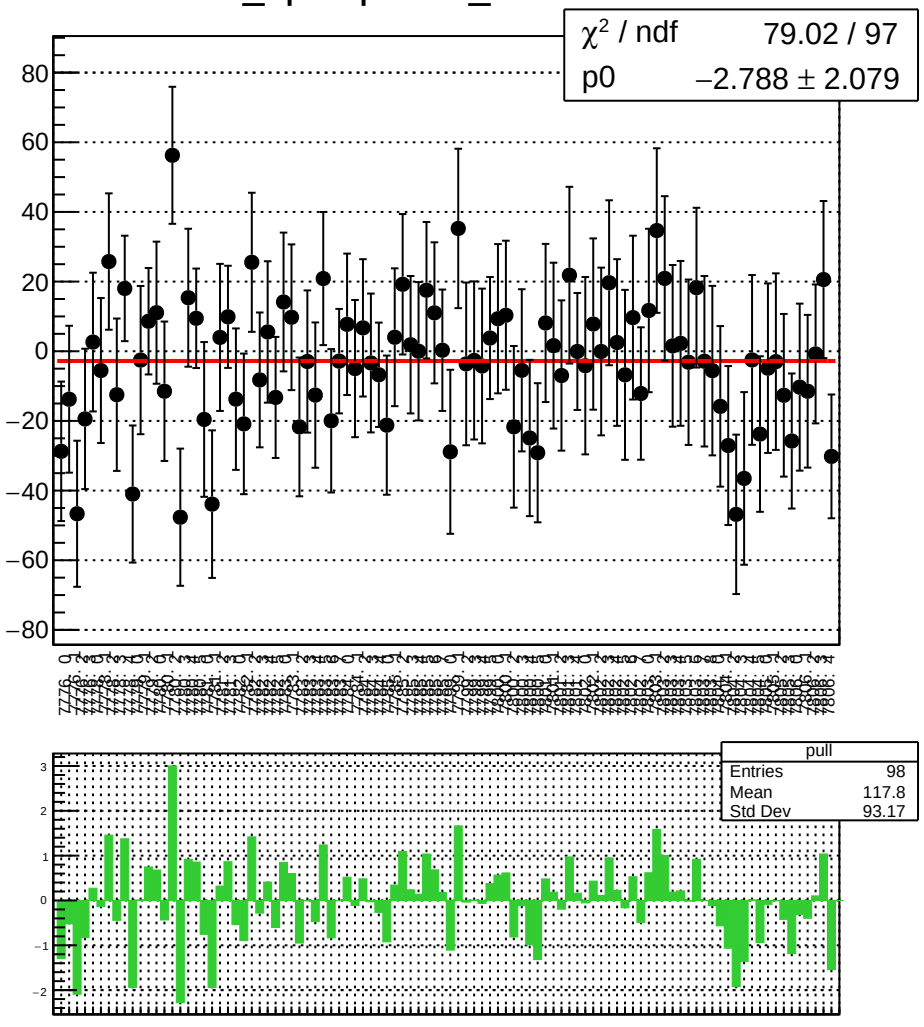

pull1D
Entries 98
Mean 0.0221
Std Dev 1.035
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

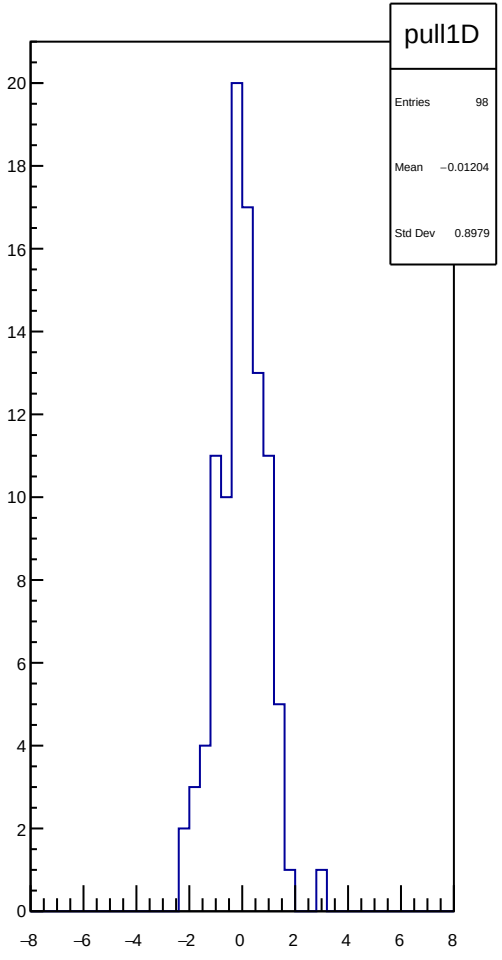

diff_bpm16Y_rms vs run
χ² / ndf 3.324e+04 / 97
p0 2491 ± 1.803
3400
3200
3000
2800
2600
2400
2200
2000

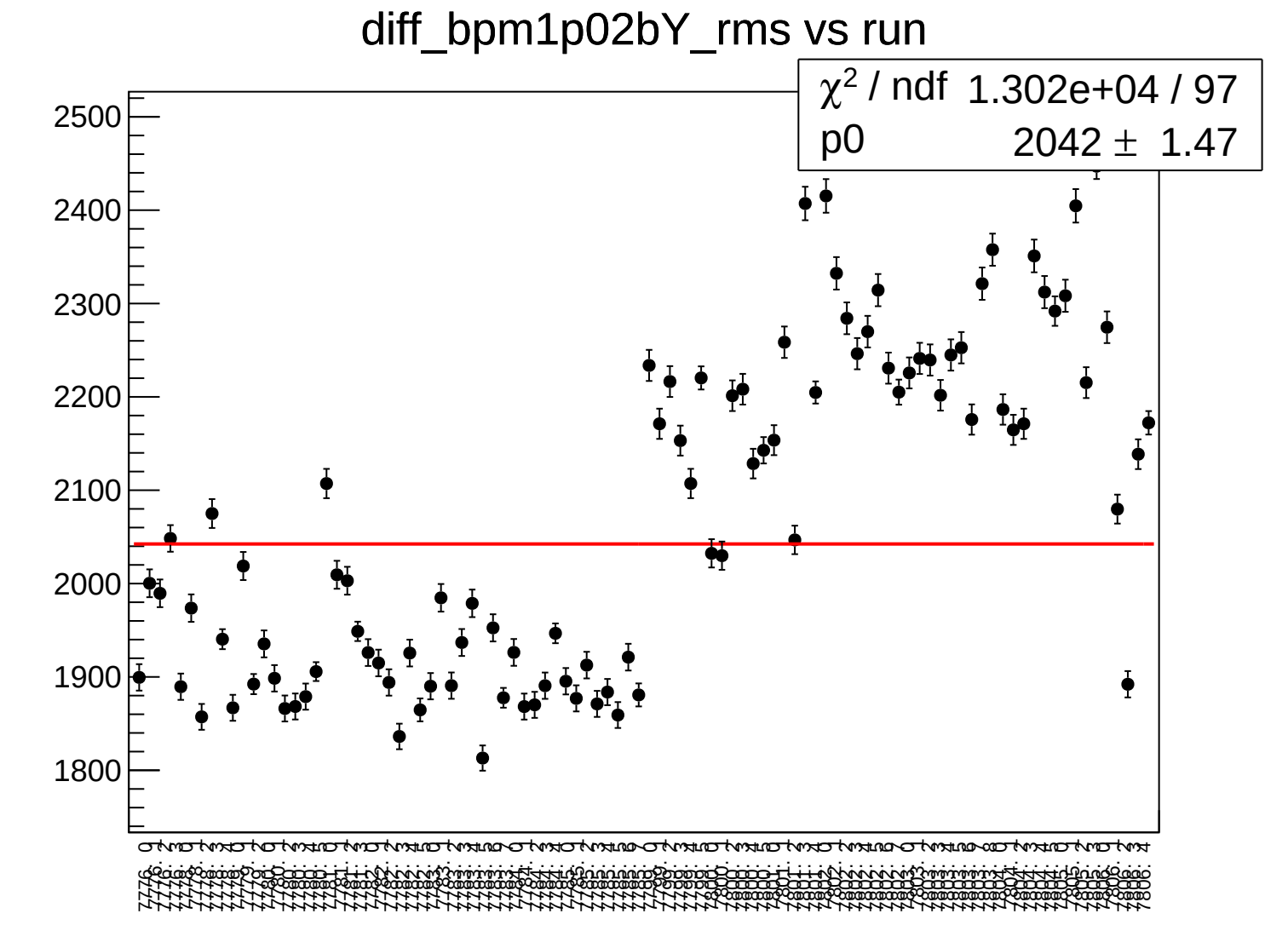

diff_bpm1p02bX_mean vs run
χ² / ndf 72.35 / 97
p0 −0.2903 ± 3.184
pull
Entries 98
Mean −417.6
Std Dev 0

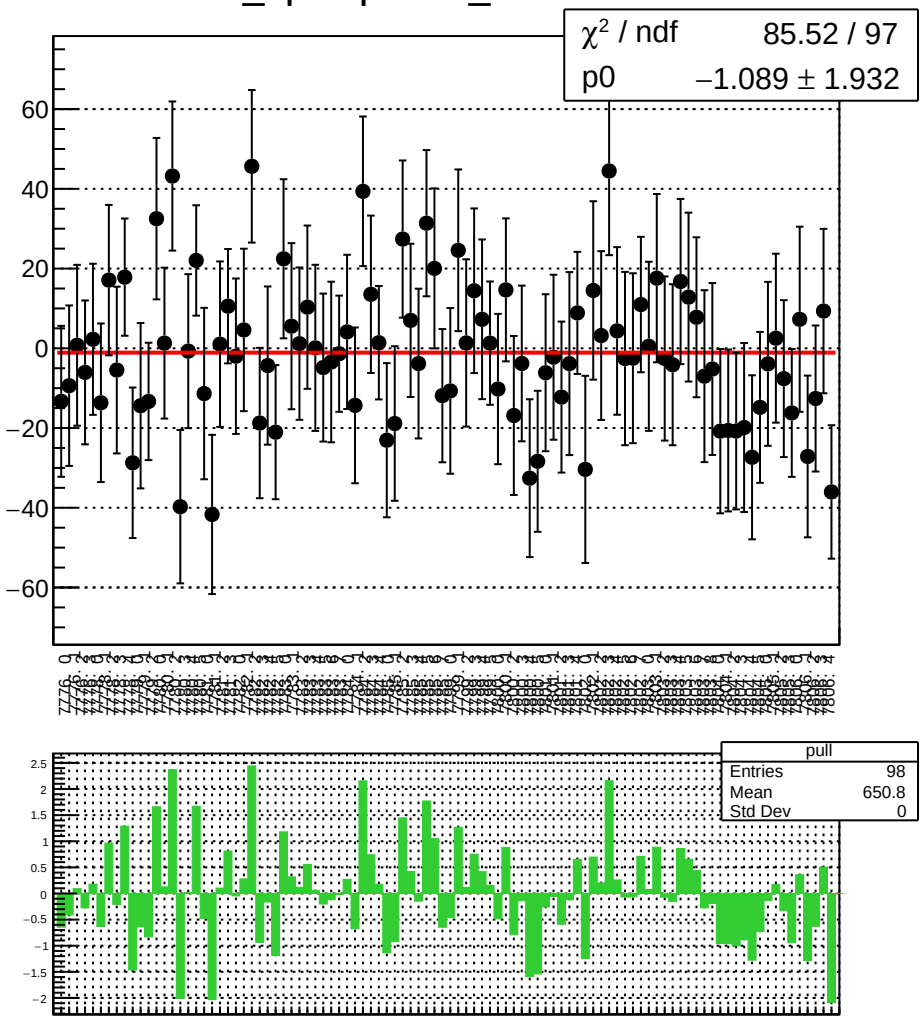

pull1D
Entries 98
Mean −0.006408
Std Dev 0.8592

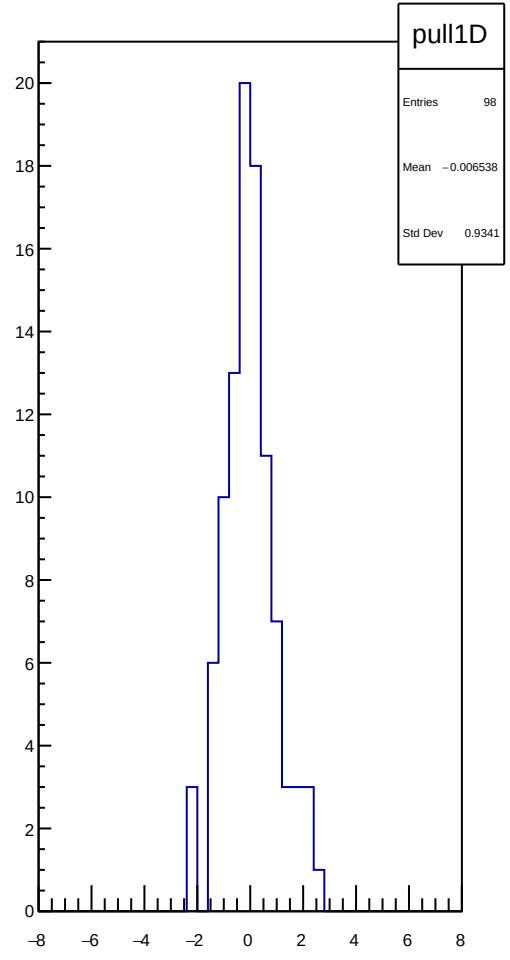

diff_bpm1p02bX_rms vs run
χ² / ndf 3150 / 97
p0 3136 ± 2.251
3700
3600
3500
3400
3300
3200
3100
3000
2900
2800

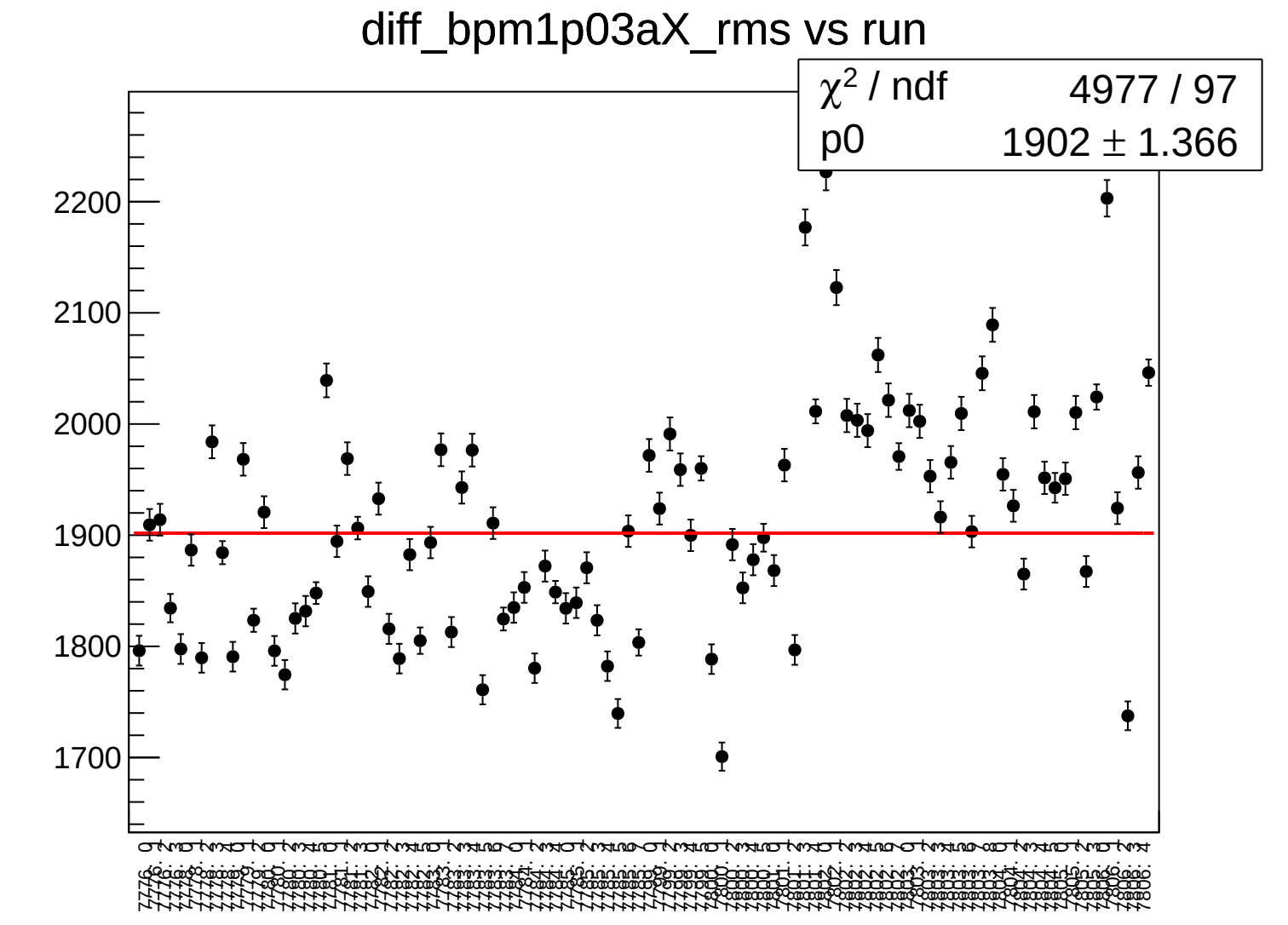

diff_bpm1p02bY_mean vs run
χ² / ndf 79.02 / 97
p0 −2.788 ± 2.079
pull
Entries 98
Mean 117.8
Std Dev 93.17

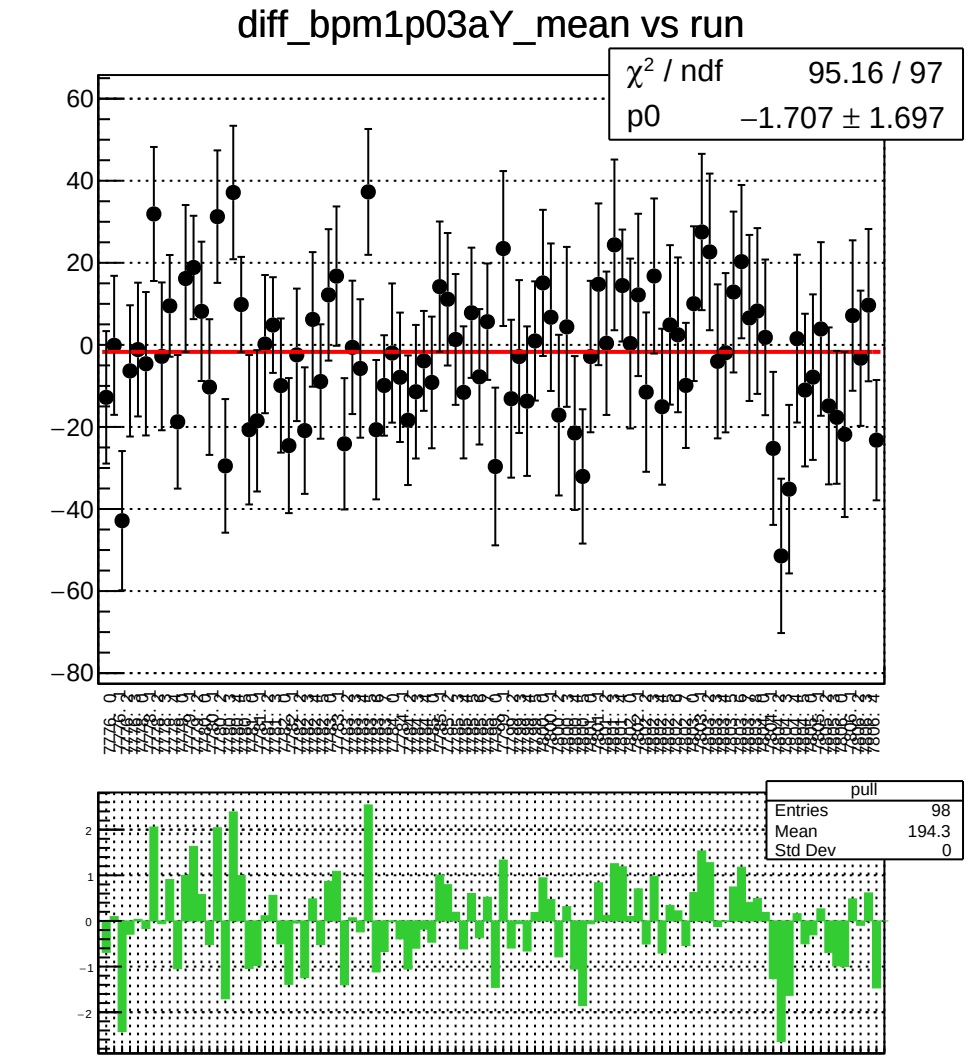

pull1D
Entries 98
Mean −0.01204
Std Dev 0.8979

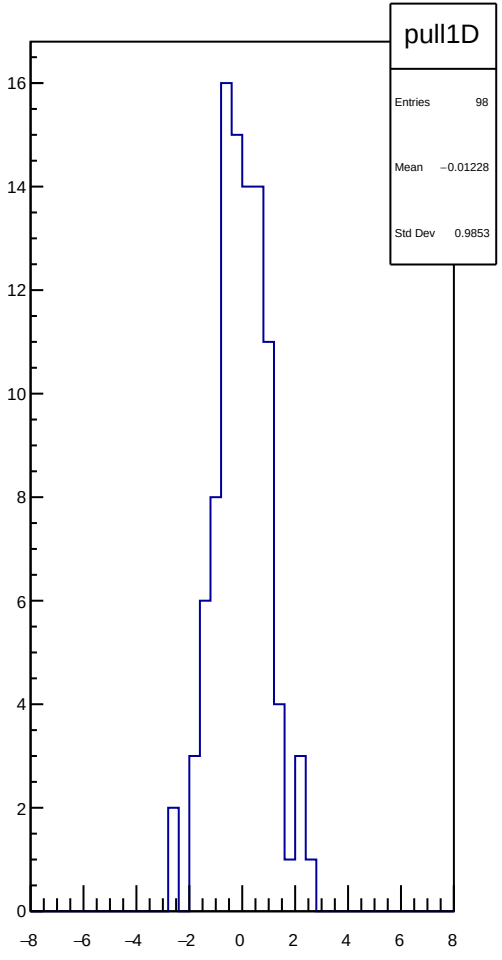

diff_bpm1p02bY_rms vs run
χ² / ndf 1.302e+04 / 97
p0 2042 ± 1.47
2500
2400
2300
2200
2100
2000
1900
1800

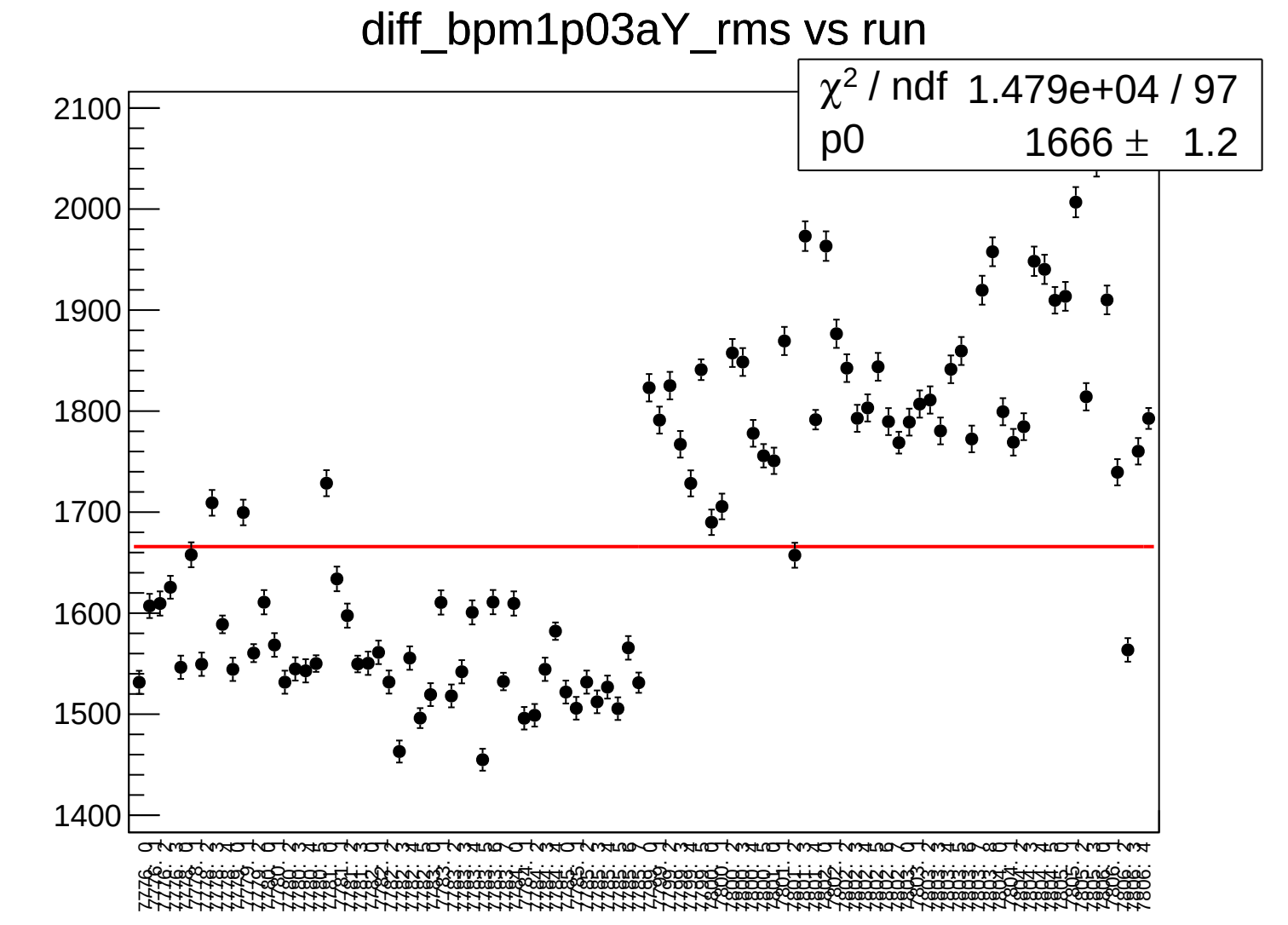

diff_bpm1p03aX_mean vs run
χ² / ndf 85.52 / 97
p0 −1.089 ± 1.932
pull
Entries 98
Mean 650.8
Std Dev 0

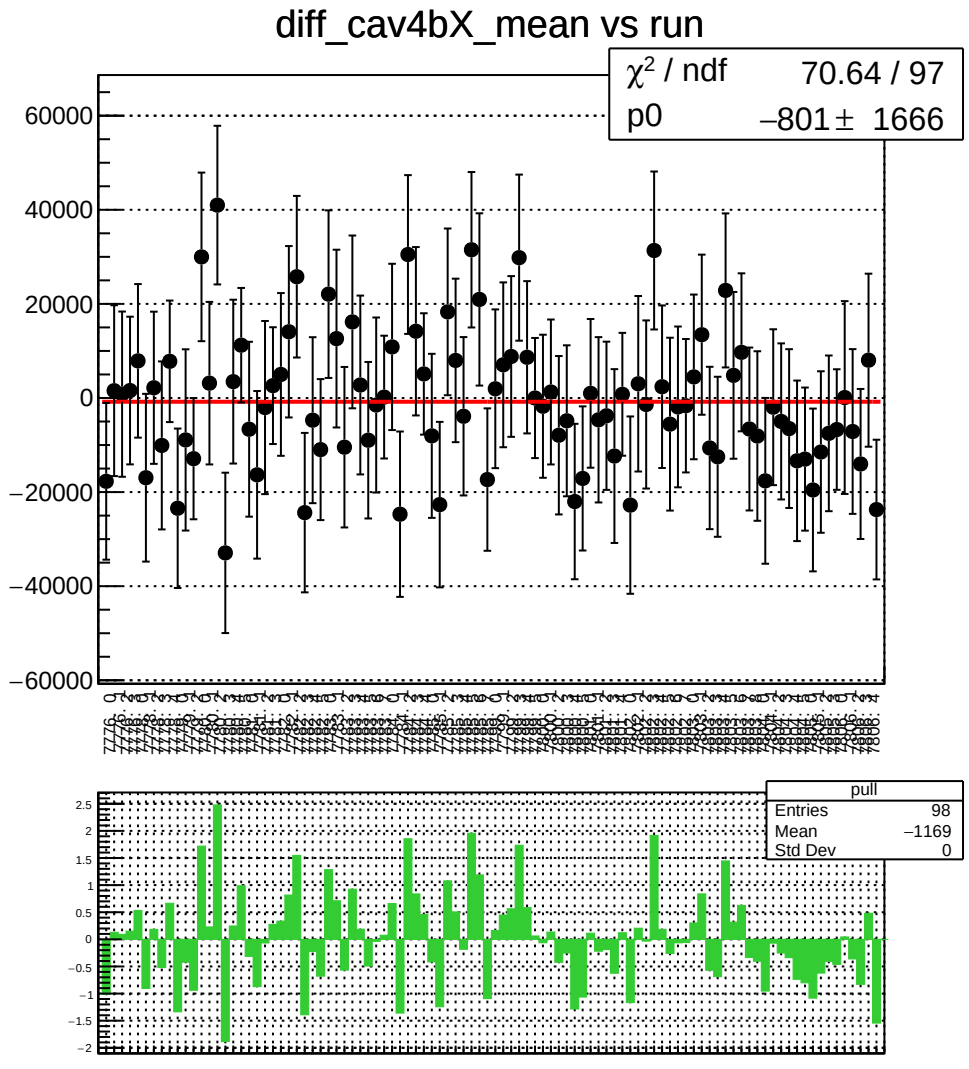

pull1D
Entries 98
Mean −0.006538
Std Dev 0.9341

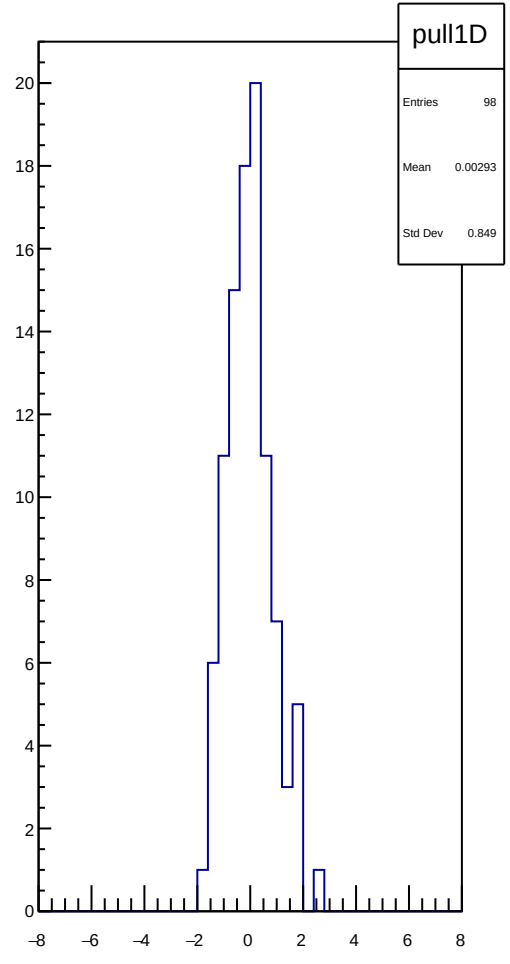

diff_bpm1p03aX_rms vs run
χ² / ndf 4977 / 97
p0 1902 ± 1.366
2200
2100
2000
1900
1800
1700

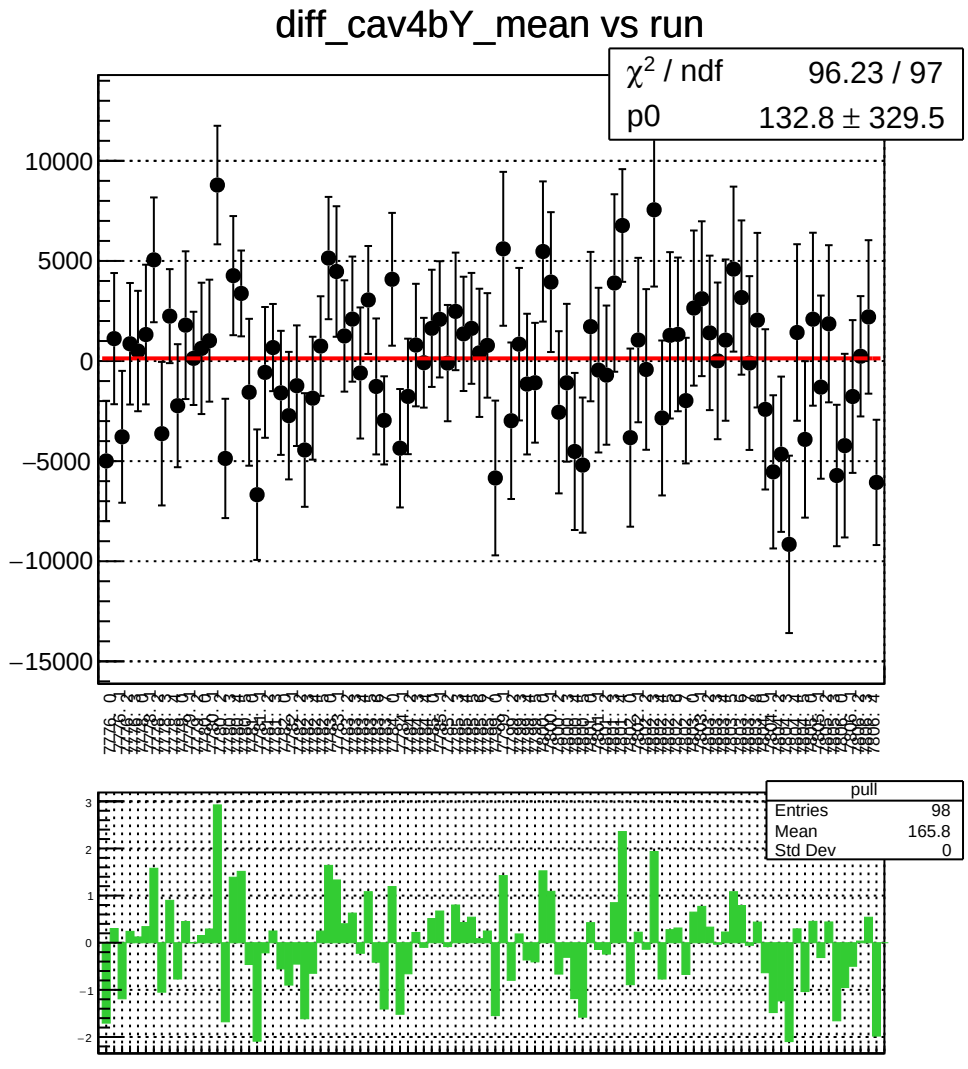

diff_bpm1p03aY_mean vs run
χ² / ndf 95.16 / 97
p0 −1.707 ± 1.697
pull
Entries 98
Mean 194.3
Std Dev 0

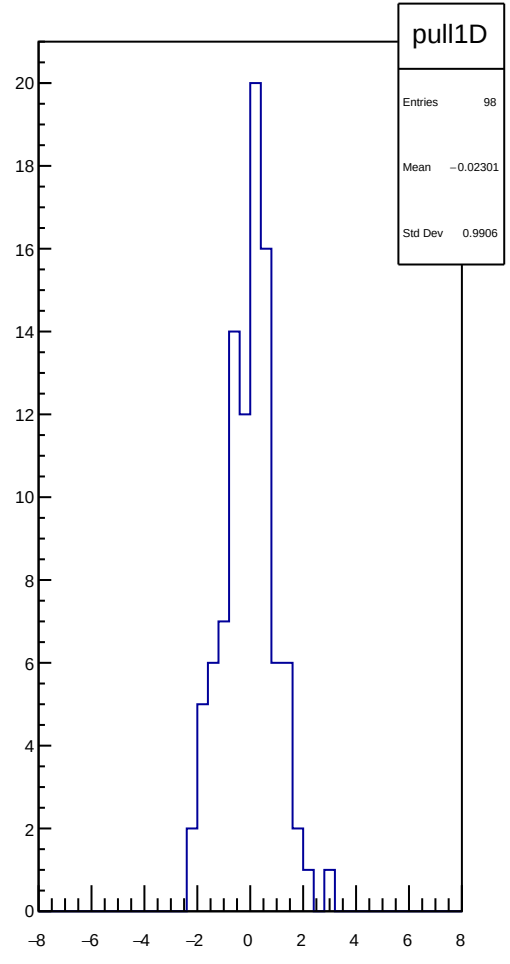

pull1D
Entries 98
Mean −0.01228
Std Dev 0.9853

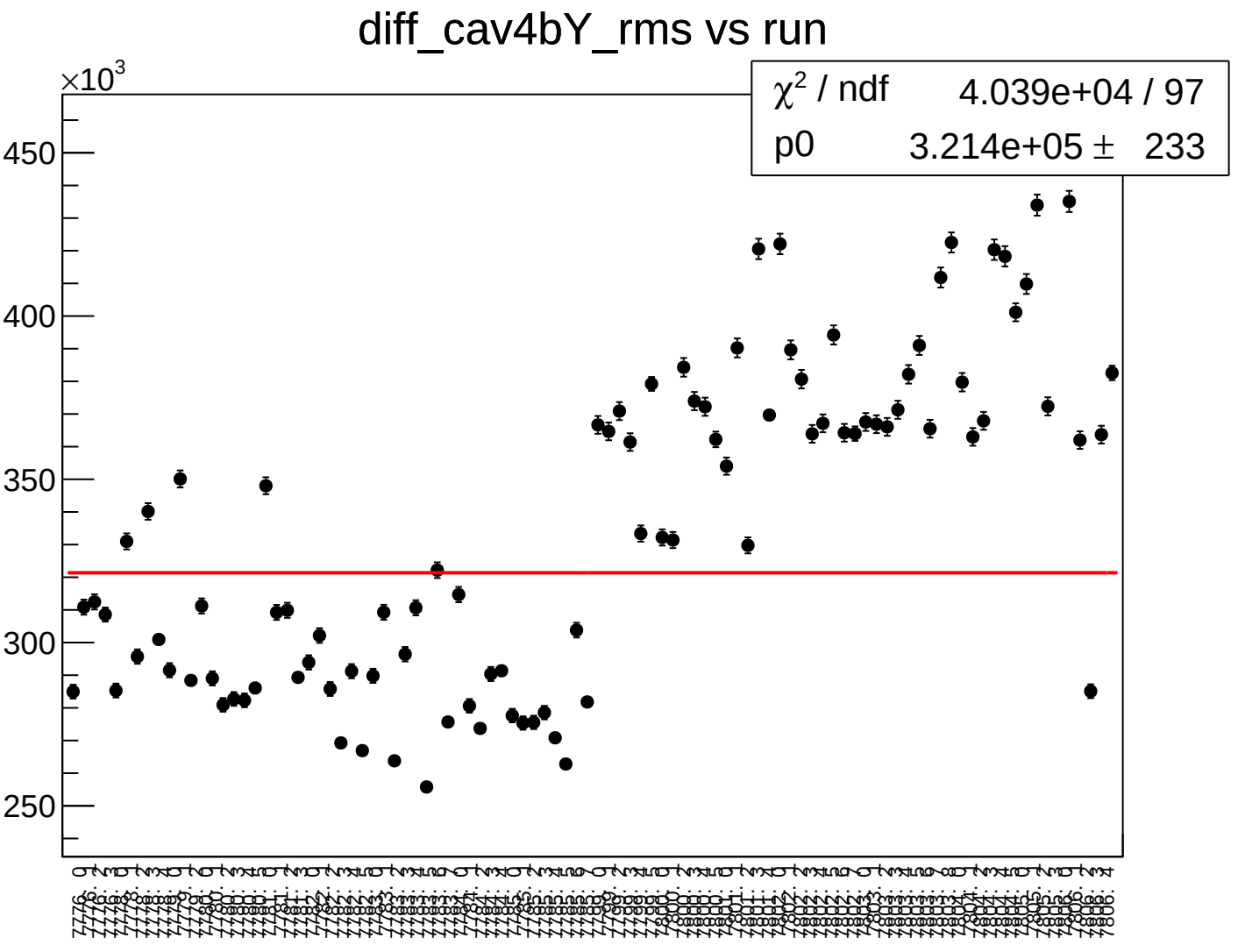

diff_bpm1p03aY_rms vs run
χ² / ndf 1.479e+04 / 97
p0 1666 ± 1.2
2100
2000
1900
1800
1700
1600
1500
1400

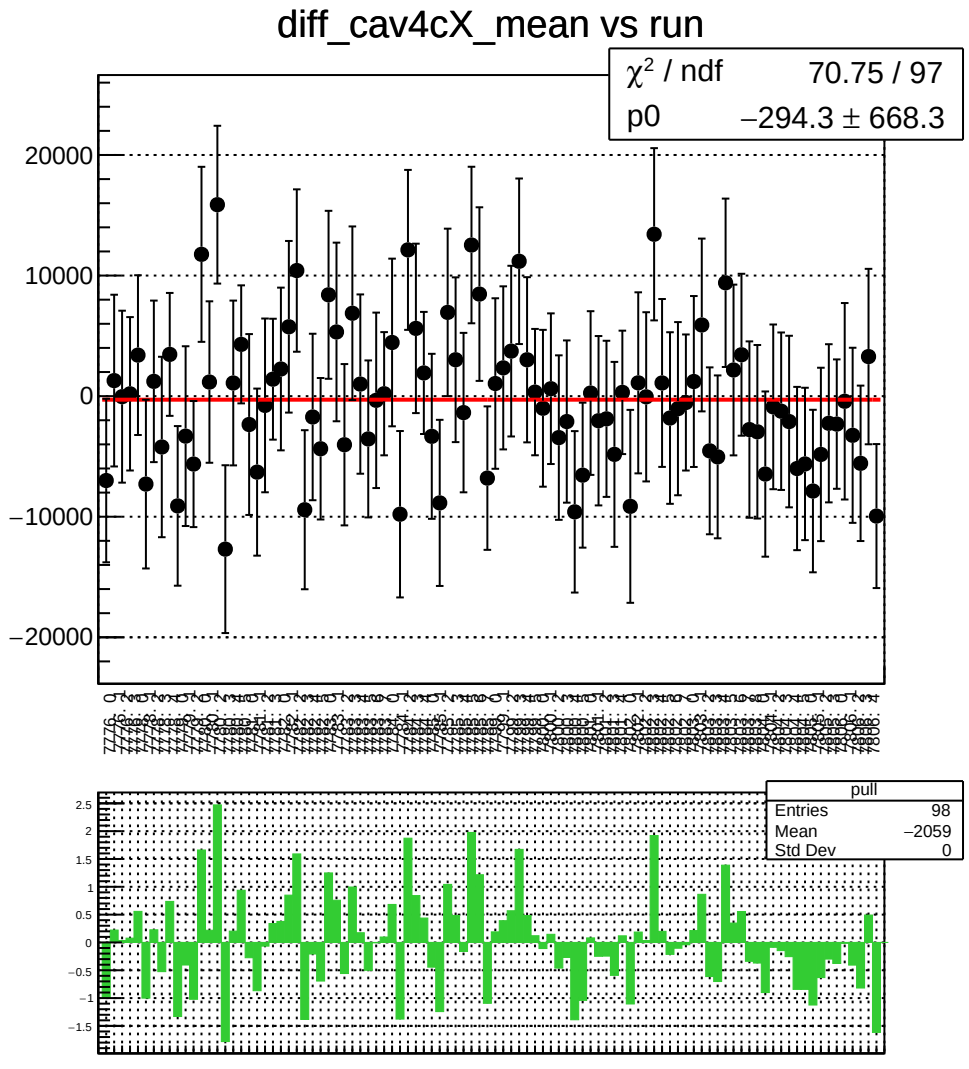

diff_cav4bX_mean vs run
χ² / ndf 70.64 / 97
p0 −801 ± 1666
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −1169
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

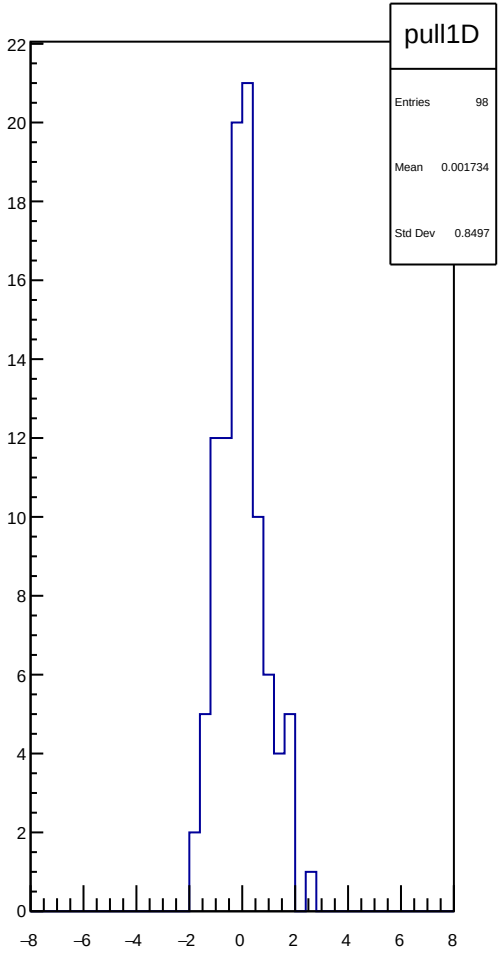

pull1D
Entries 98
Mean 0.00293
Std Dev 0.849
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

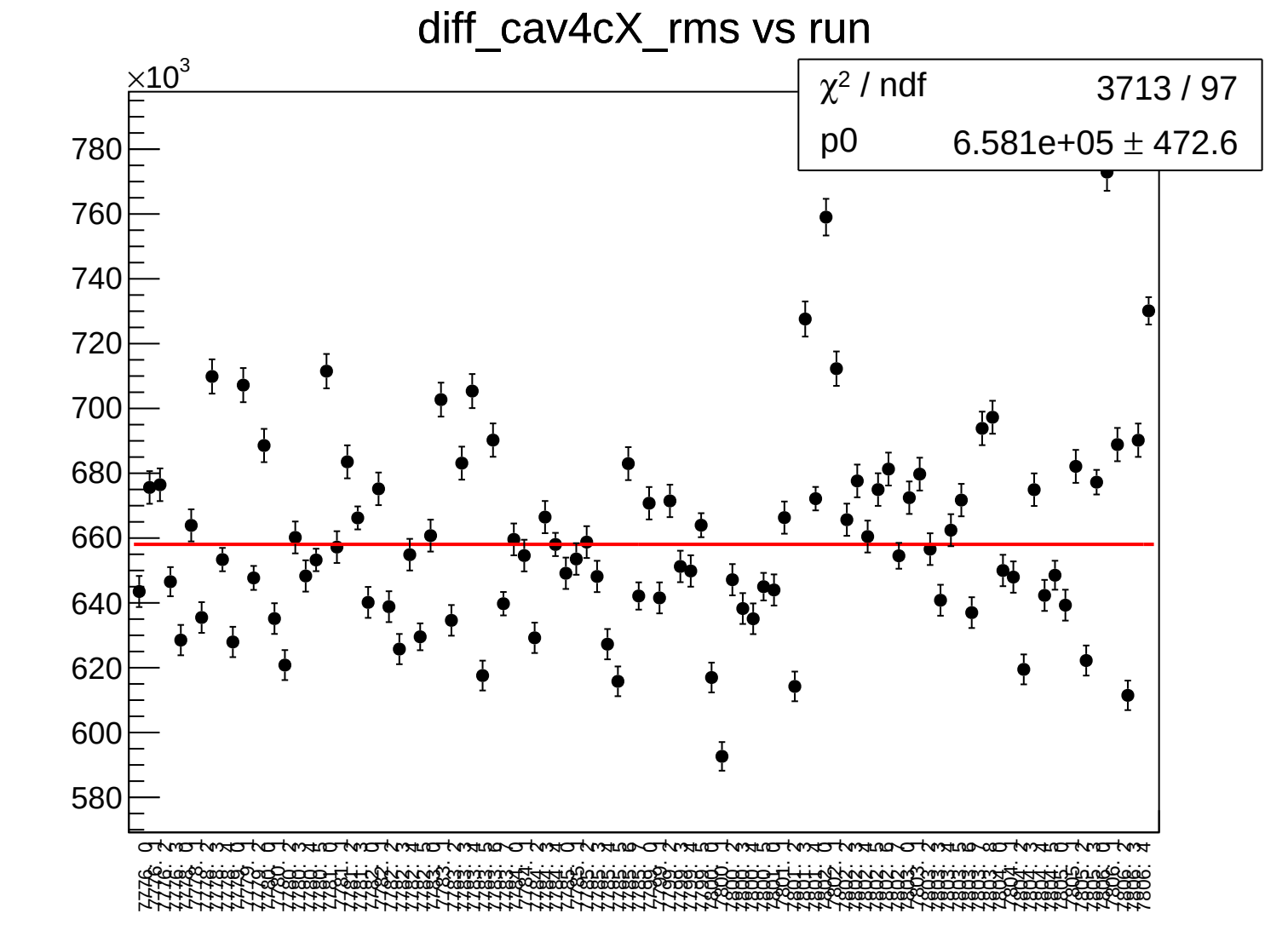

diff_cav4bY_mean vs run
χ² / ndf 96.23 / 97
p0 132.8 ± 329.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 165.8
Std Dev 0
3
2
1
0
−1
−2

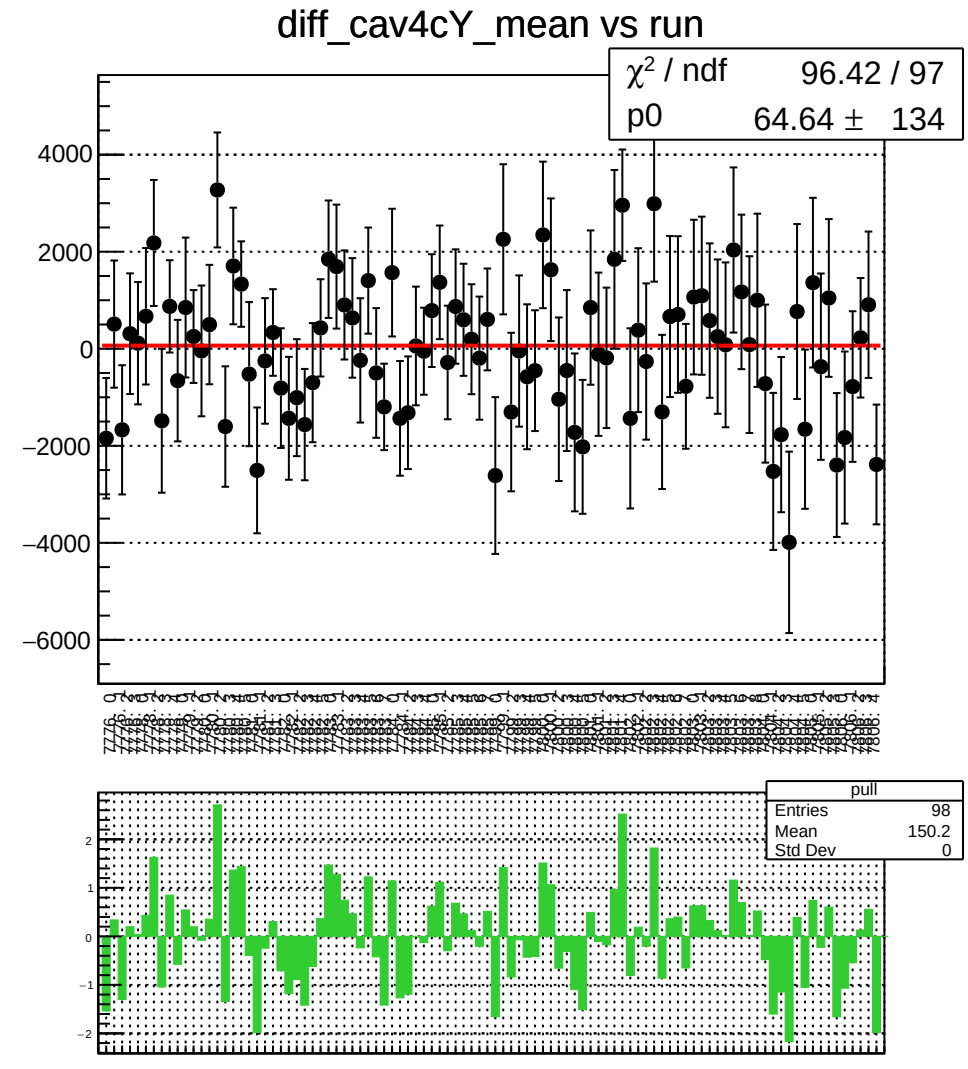

pull1D
Entries 98
Mean −0.02301
Std Dev 0.9906
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

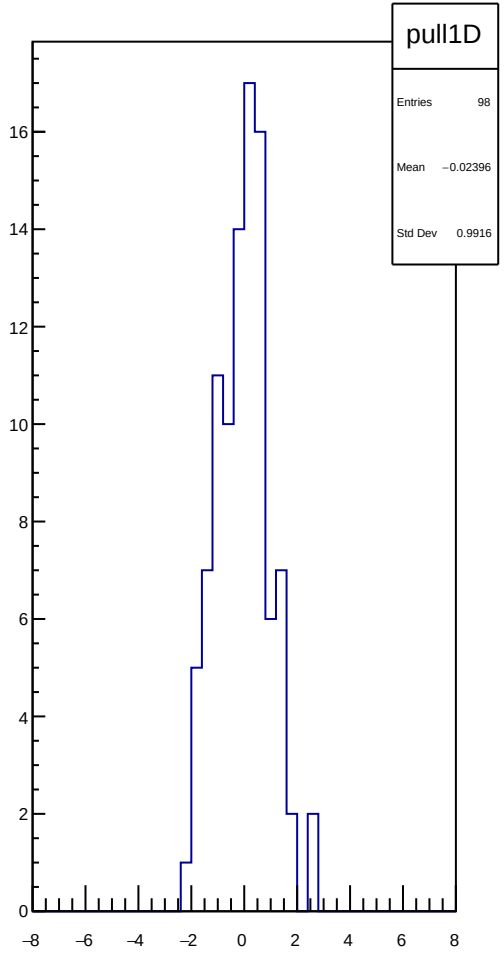

diff_cav4bY_rms vs run
×10^3
χ^2 / ndf 4.039e+04 / 97
p0 3.214e+05 ± 233
450
400
350
300
250

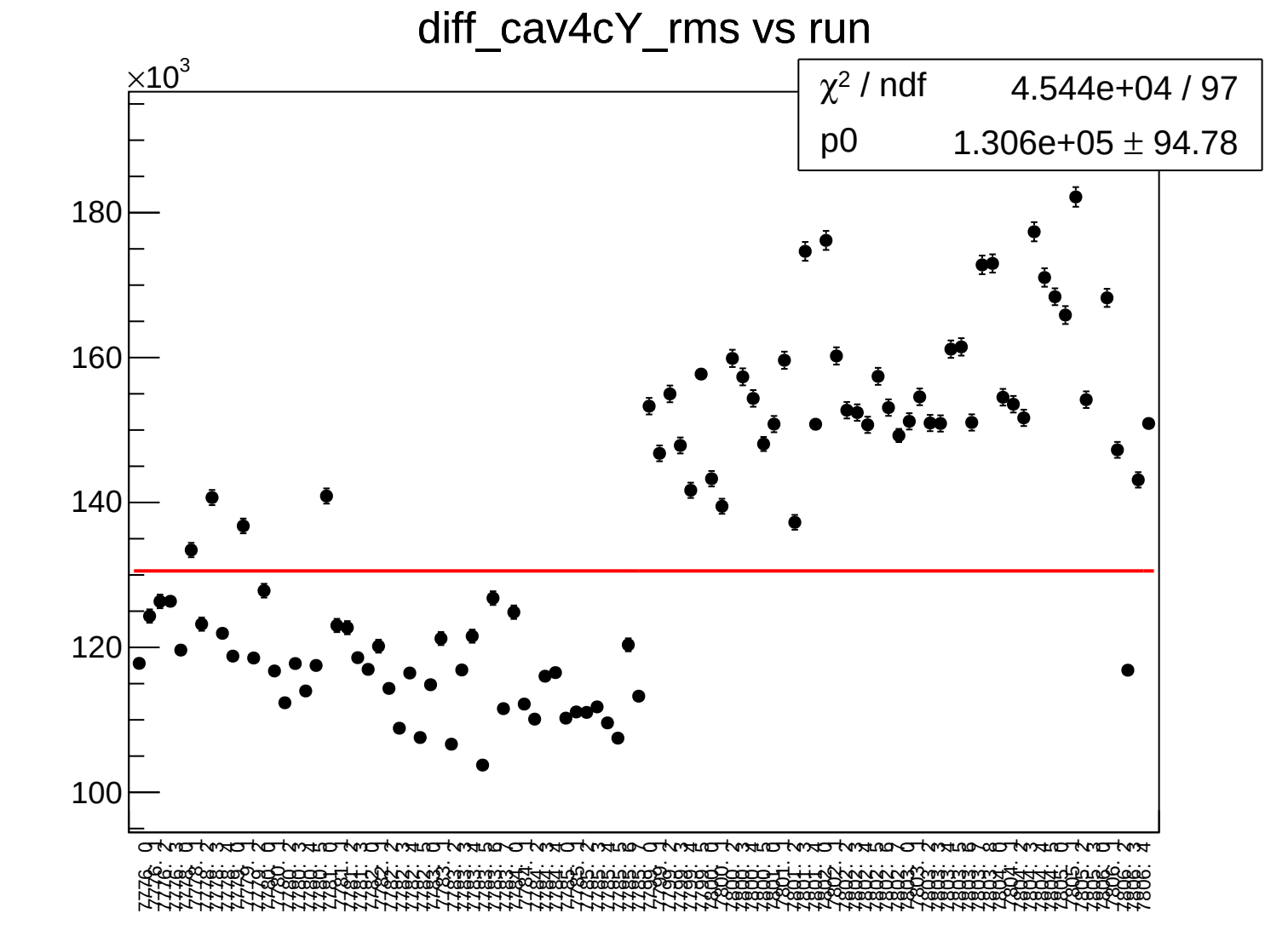

diff_cav4cX_mean vs run
χ² / ndf 70.75 / 97
p0 −294.3 ± 668.3
20000
10000
0
−10000
−20000
pull
Entries 98
Mean −2059
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

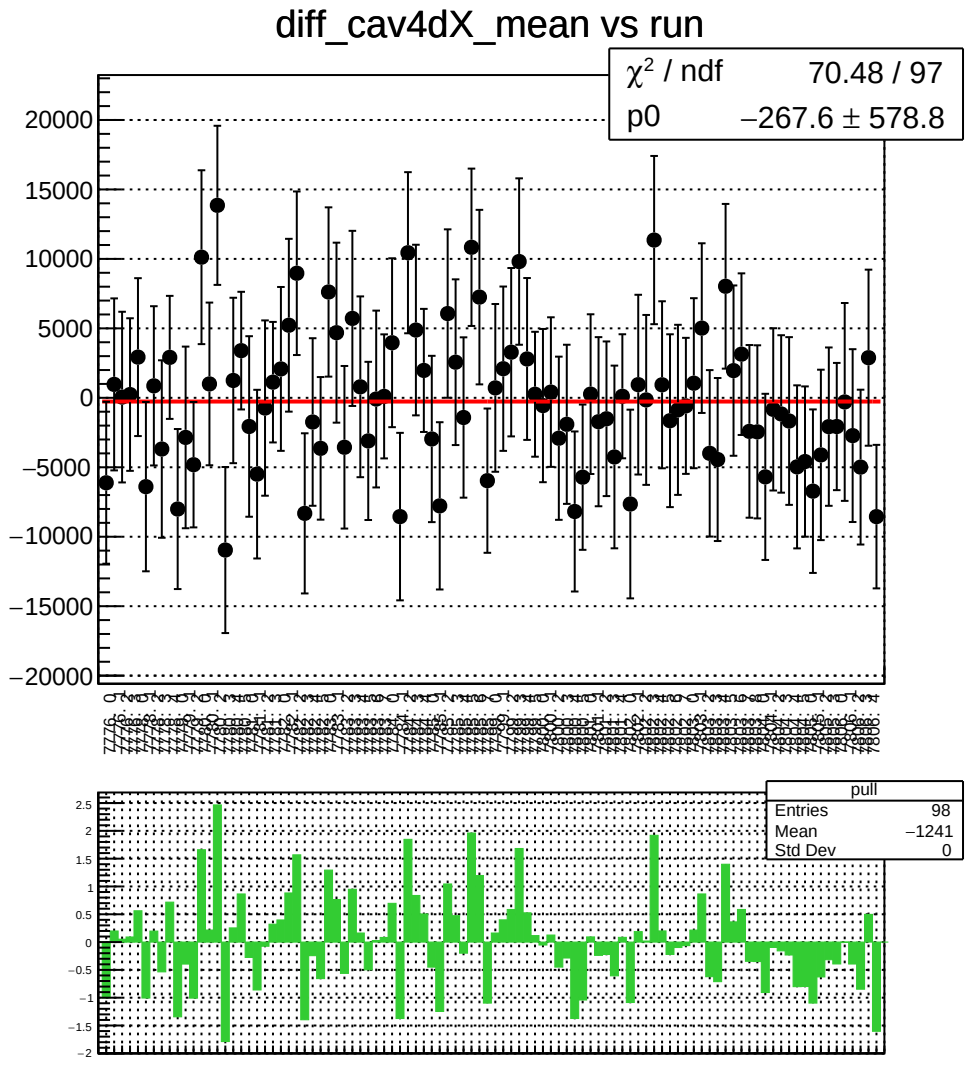

pull1D
Entries 98
Mean 0.001734
Std Dev 0.8497
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

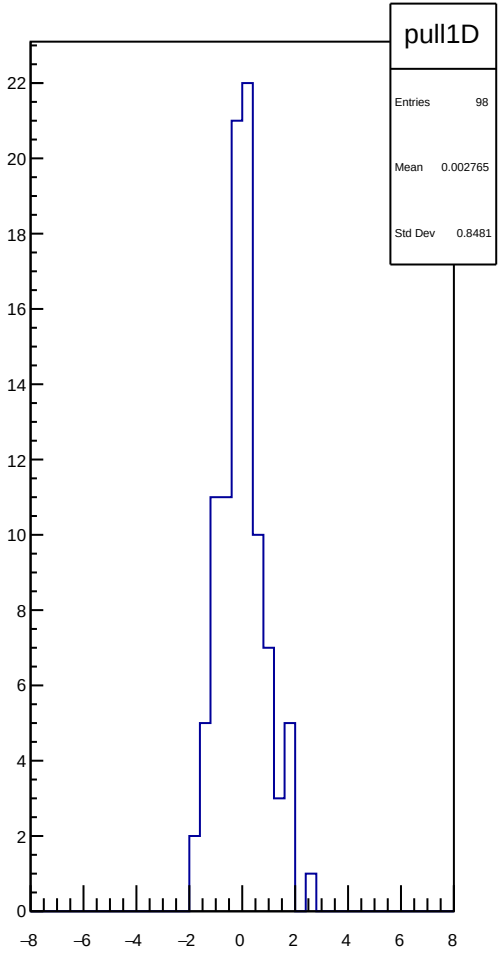

diff_cav4cX_rms vs run
×10^3
χ² / ndf 3713 / 97
p0 6.581e+05 ± 472.6
780
760
740
720
700
680
660
640
620
600
580

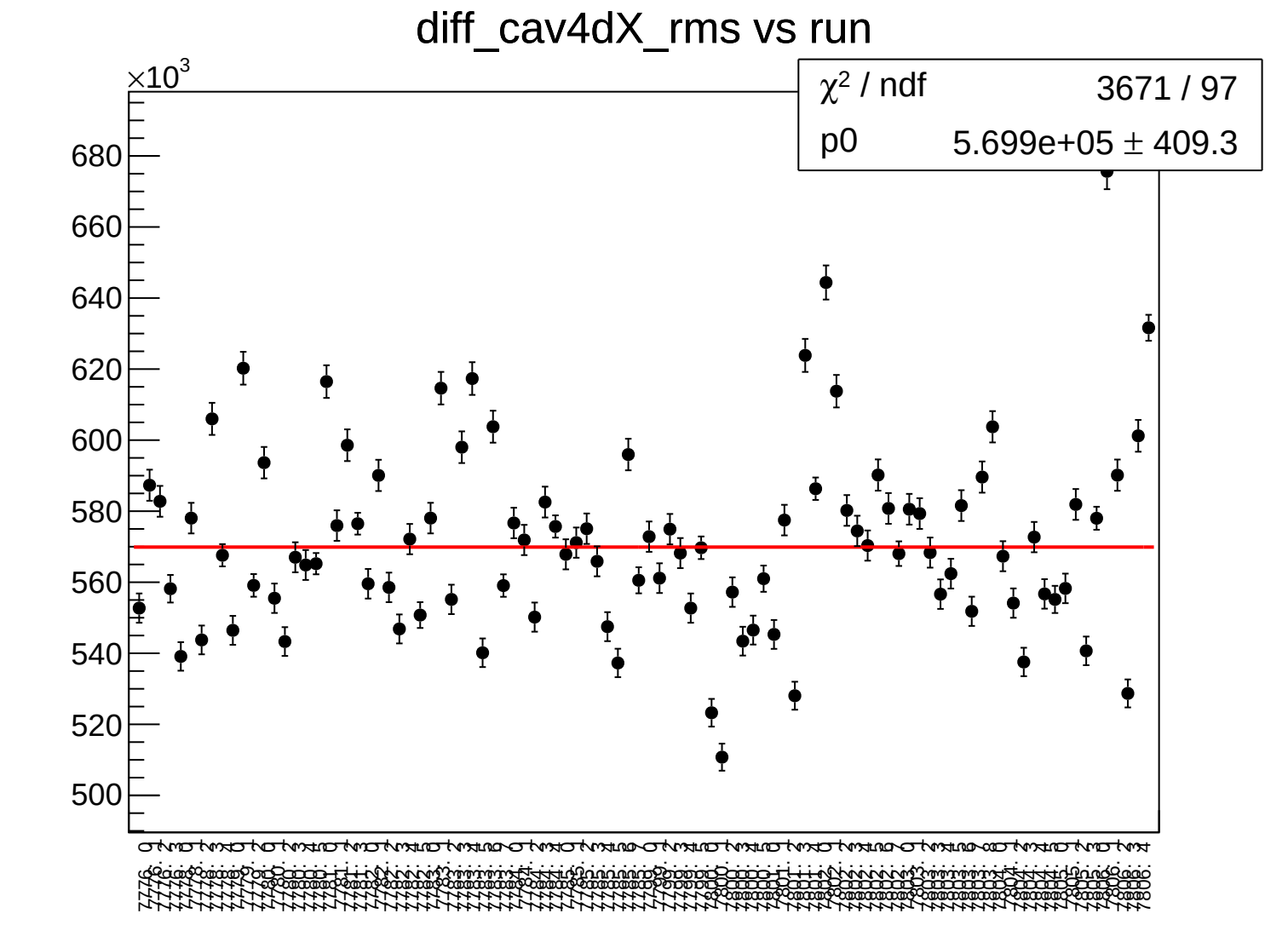

diff_cav4cY_mean vs run
χ² / ndf 96.42 / 97
p0 64.64 ± 134
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 150.2
Std Dev 0
2
1
0
−1
−2

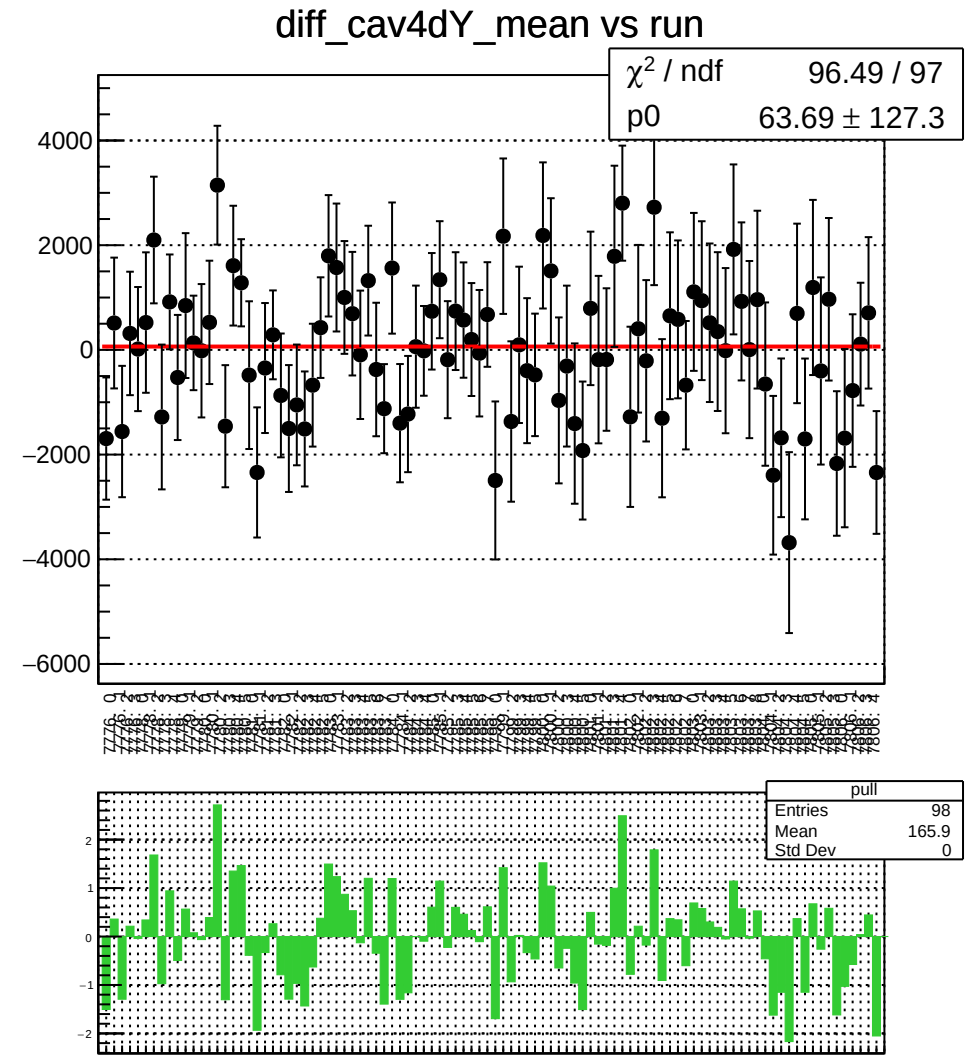

pull1D
Entries 98
Mean −0.02396
Std Dev 0.9916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

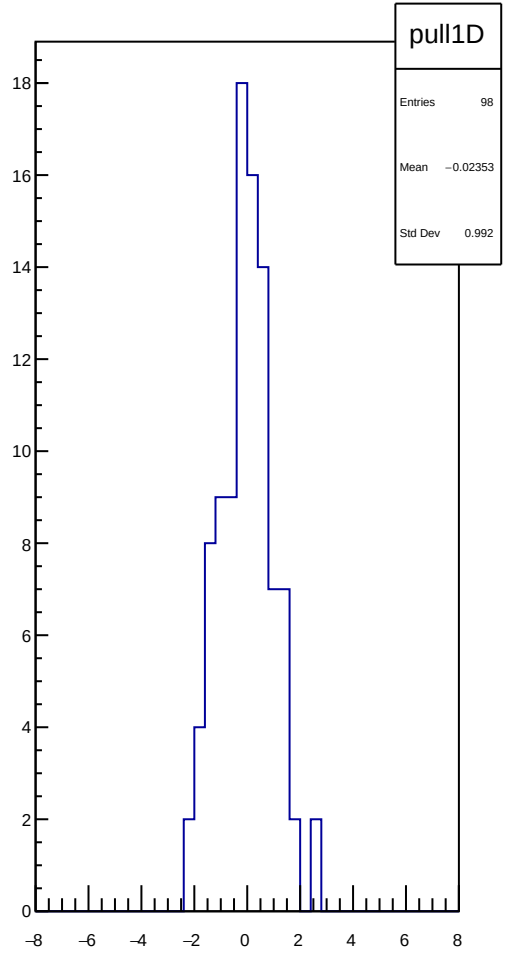

diff_cav4cY_rms vs run
×10^3
χ² / ndf 4.544e+04 / 97
p0 1.306e+05 ± 94.78
180
160
140
120
100

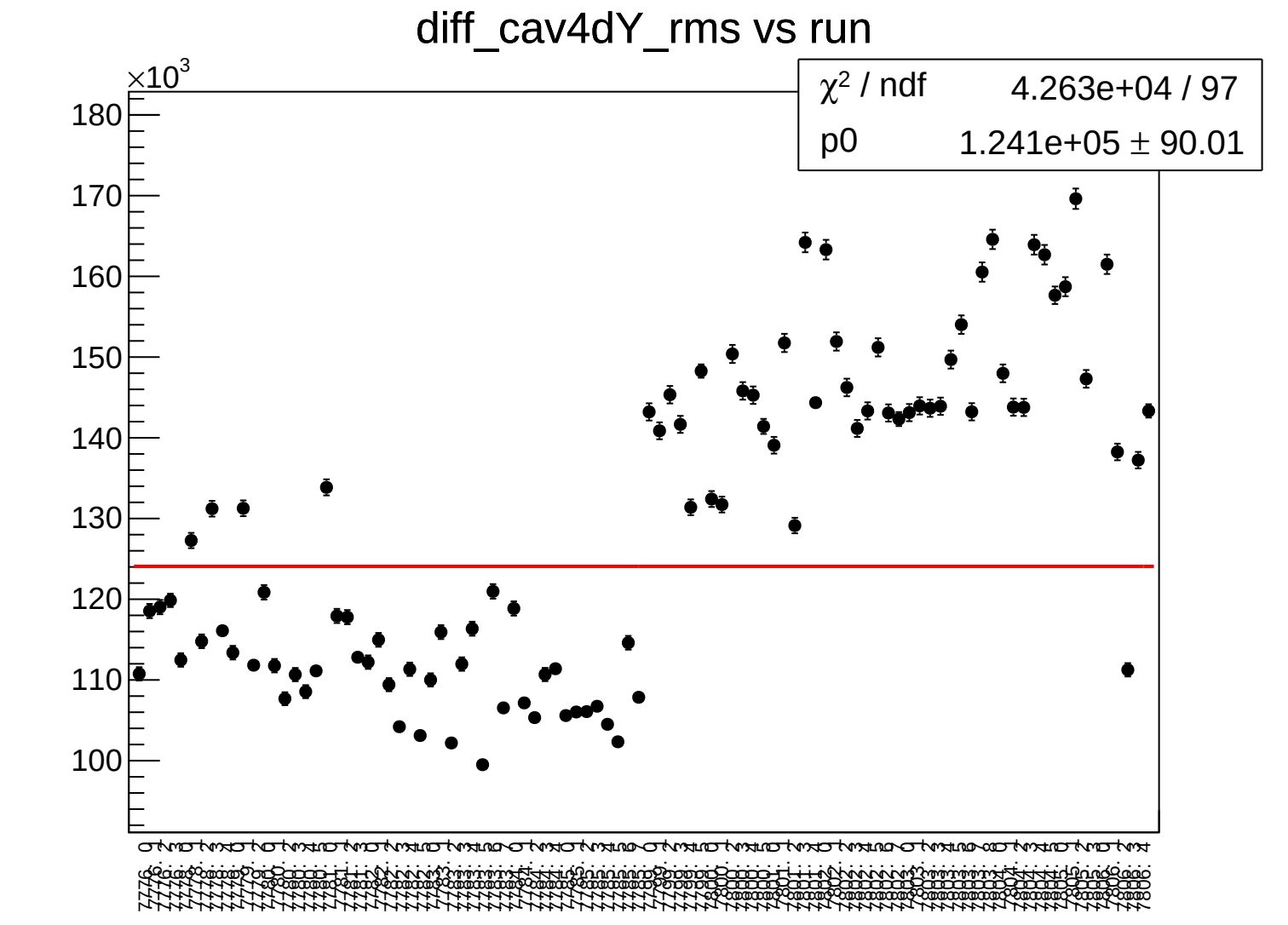

diff_cav4dX_mean vs run
χ² / ndf 70.48 / 97
p0 −267.6 ± 578.8
pull
Entries 98
Mean −1241
Std Dev 0

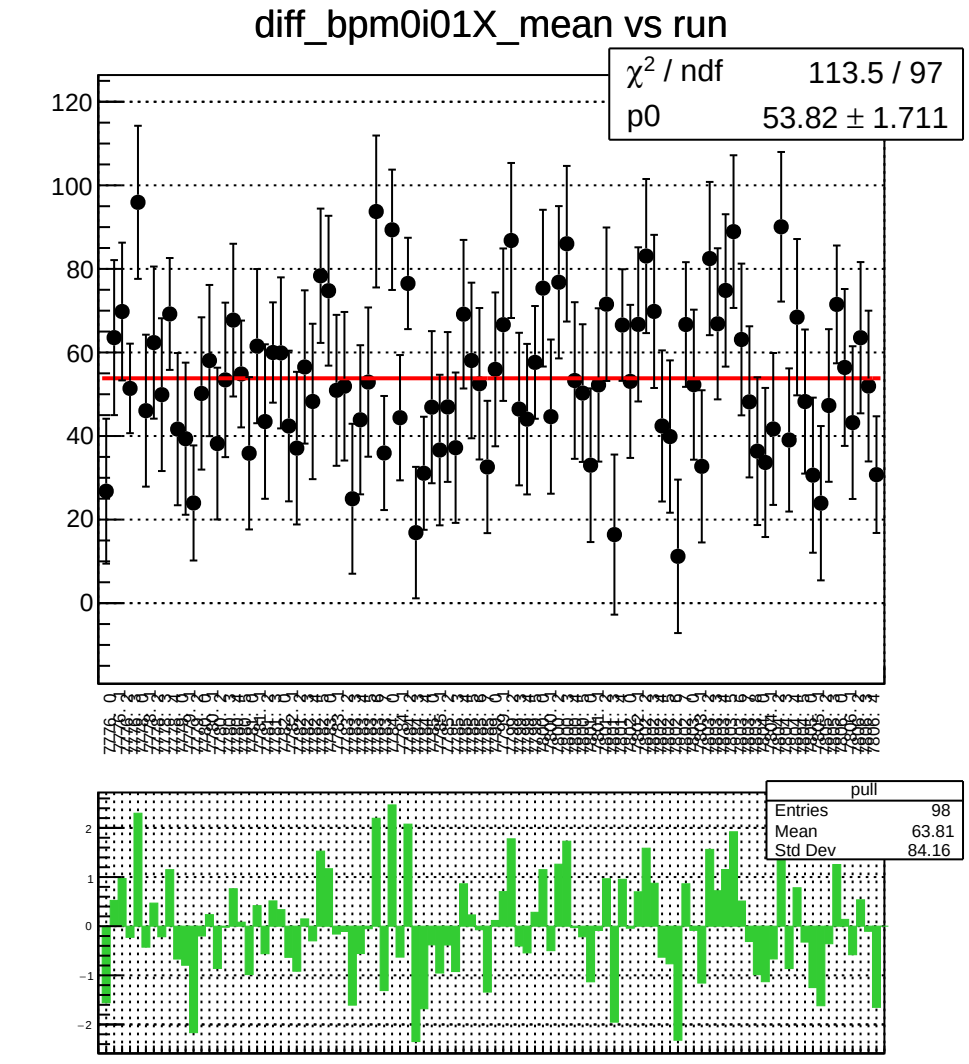

pull1D
Entries 98
Mean 0.002765
Std Dev 0.8481

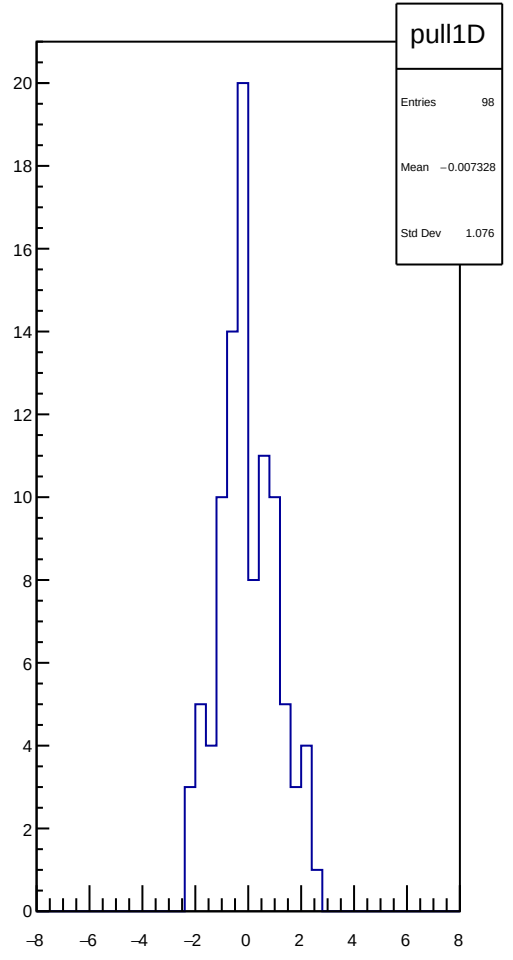

diff_cav4dX_rms vs run
×10^3
680
660
640
620
600
580
560
540
520
500
χ² / ndf 3671 / 97
p0 5.699e+05 ± 409.3

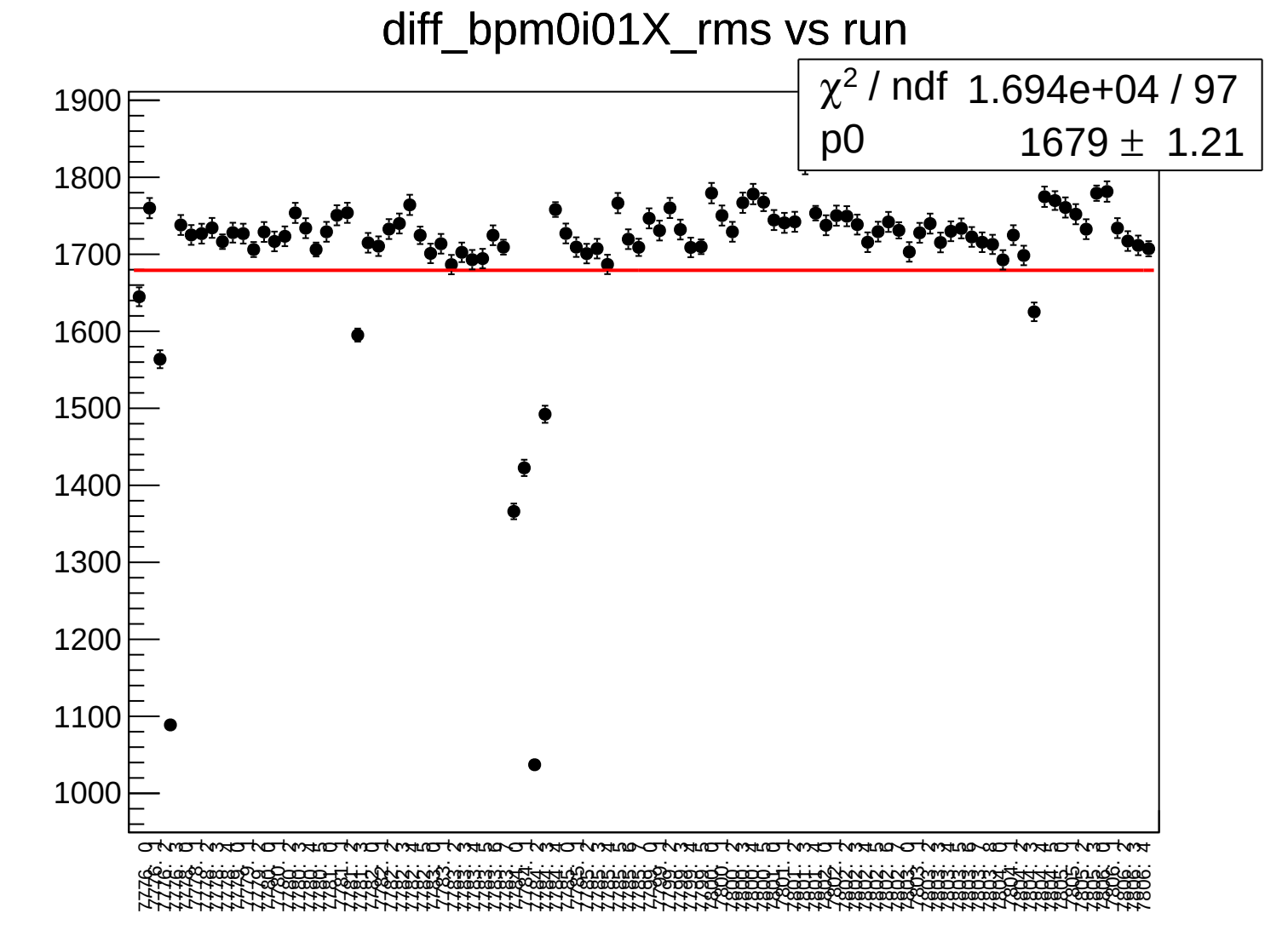

diff_cav4dY_mean vs run
χ^2 / ndf 96.49 / 97
p0 63.69 ± 127.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 165.9
Std Dev 0
2
1
0
−1
−2

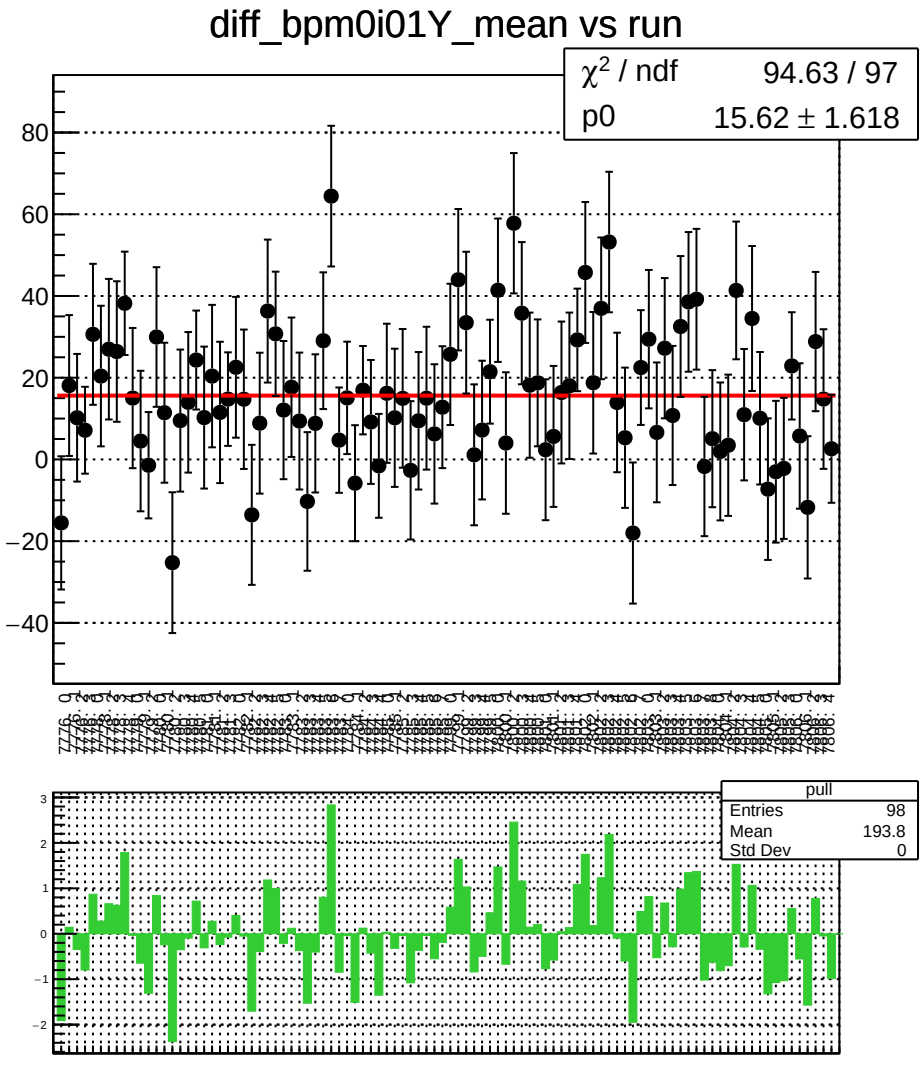

pull1D
Entries 98
Mean −0.02353
Std Dev 0.992
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

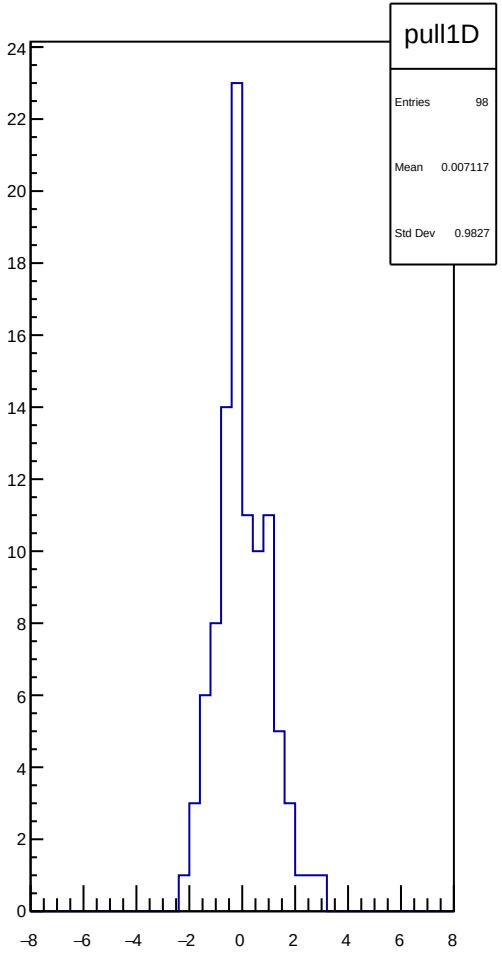

diff_cav4dY_rms vs run
×10^3
χ² / ndf 4.263e+04 / 97
p0 1.241e+05 ± 90.01
180
170
160
150
140
130
120
110
100

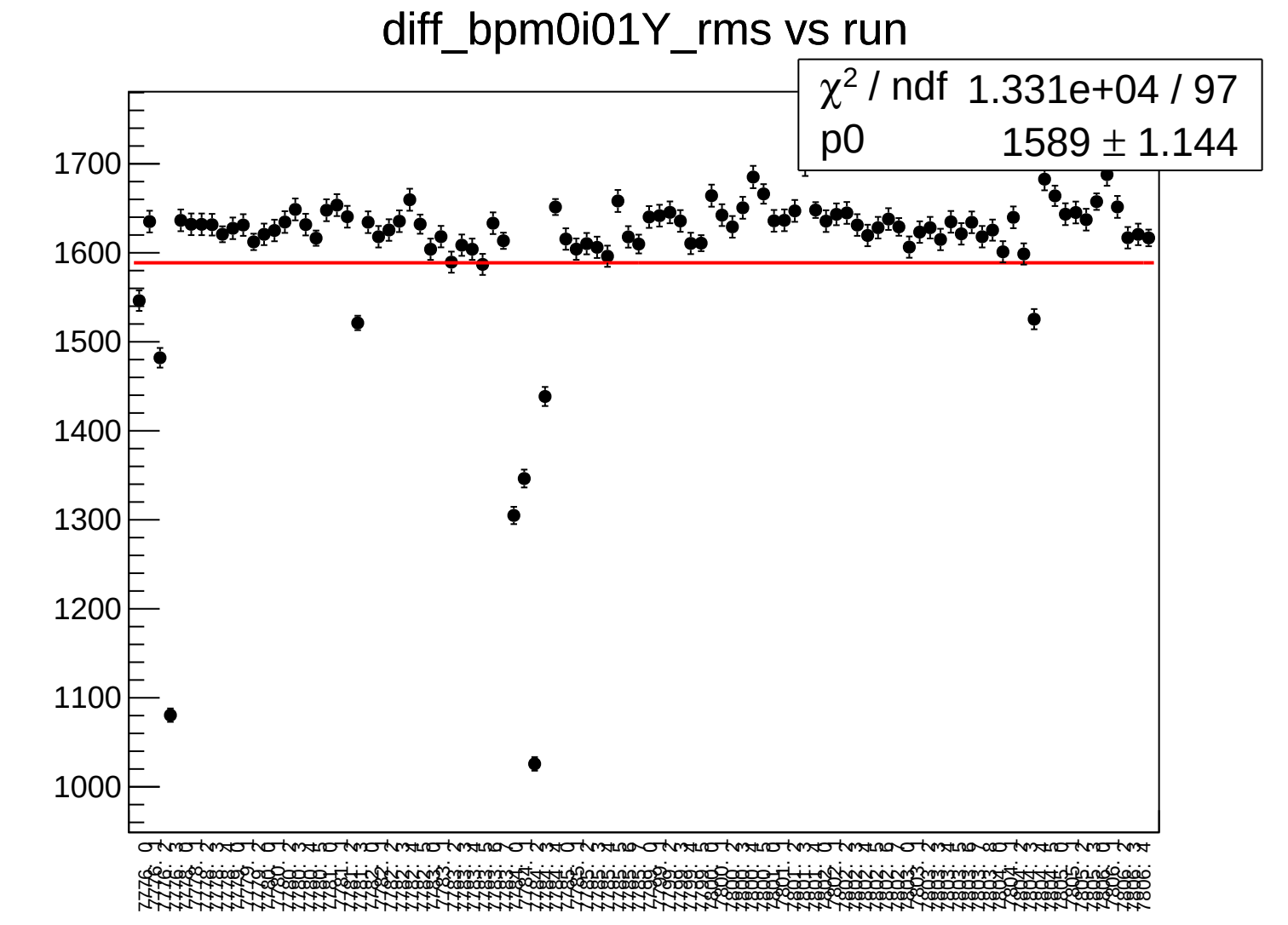

diff_bpm0i01X_mean vs run
χ^2 / ndf 113.5 / 97
p0 53.82 ± 1.711
120
100
80
60
40
20
0
pull
Entries 98
Mean 63.81
Std Dev 84.16
2
1
0
−1
−2

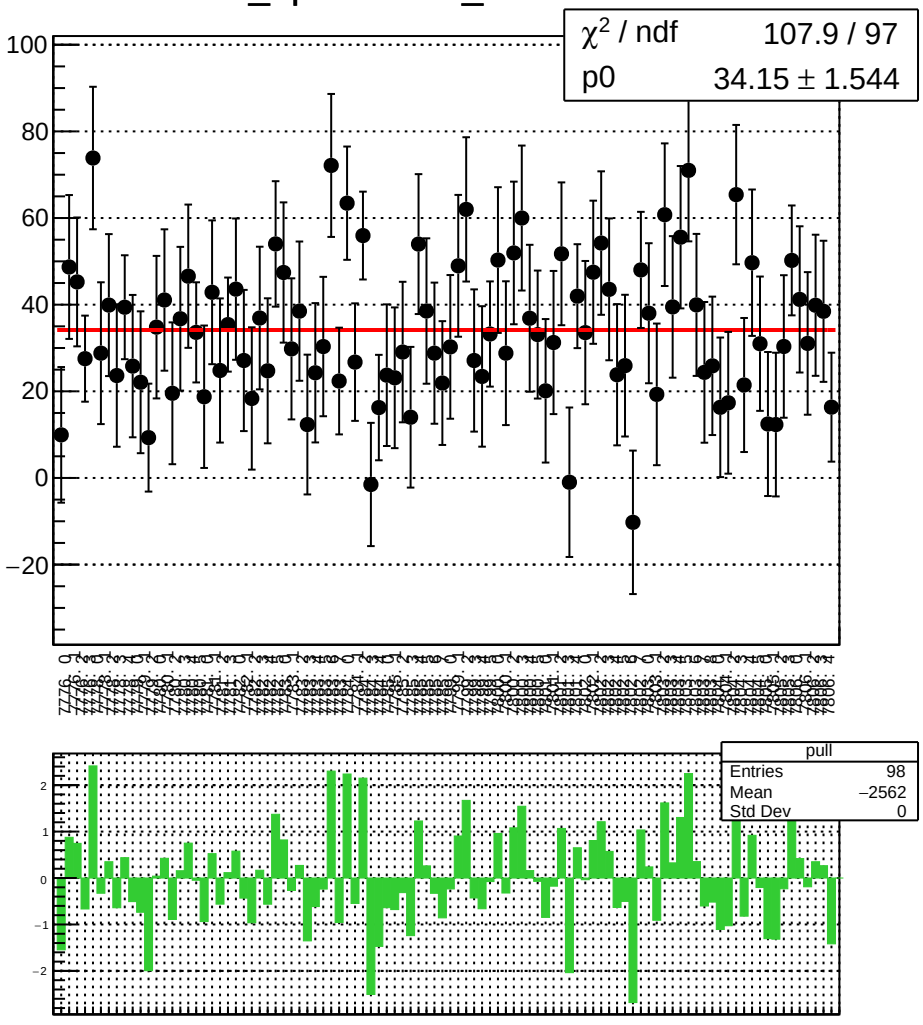

pull1D
Entries 98
Mean −0.007328
Std Dev 1.076
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

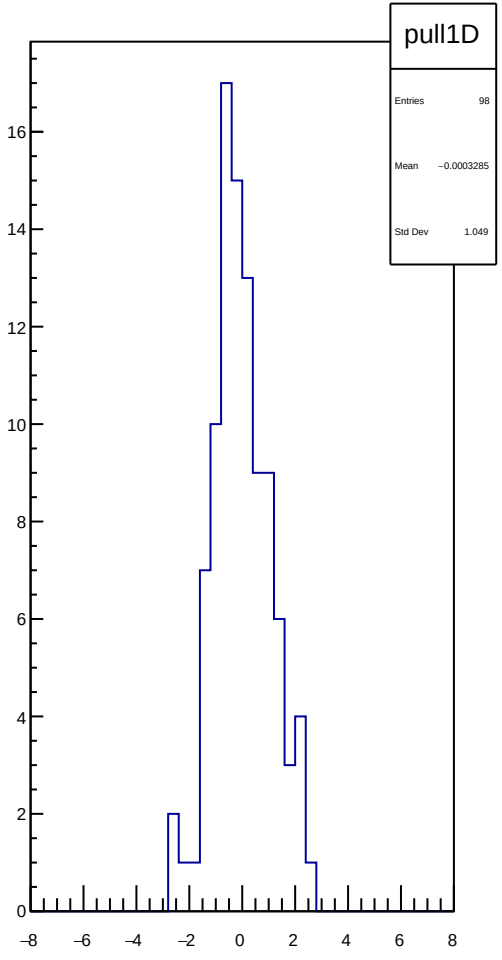

diff_bpm0i01X_rms vs run
χ² / ndf 1.694e+04 / 97
p0 1679 ± 1.21
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

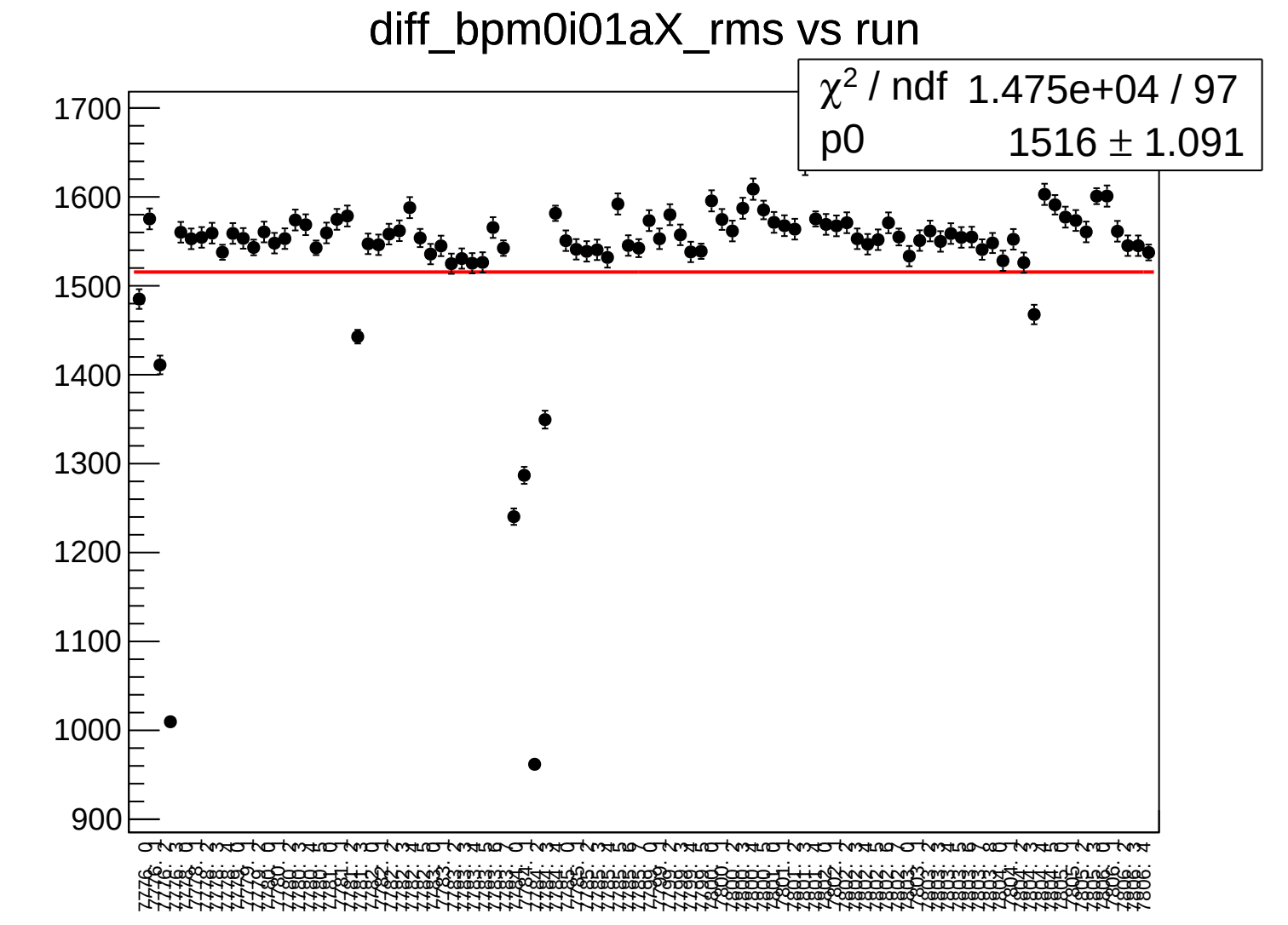

diff_bpm0i01Y_mean vs run
χ^2 / ndf 94.63 / 97
p0 15.62 ± 1.618
pull
Entries 98
Mean 193.8
Std Dev 0

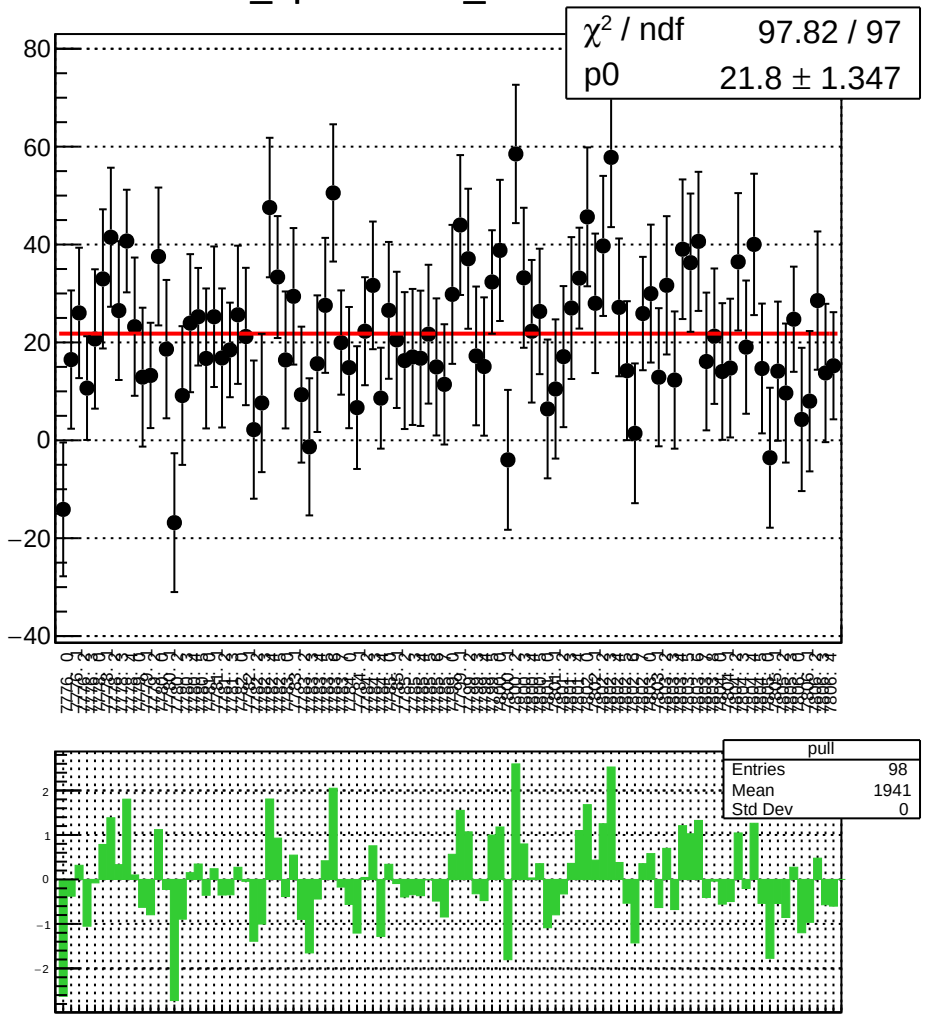

pull1D
Entries 98
Mean 0.007117
Std Dev 0.9827

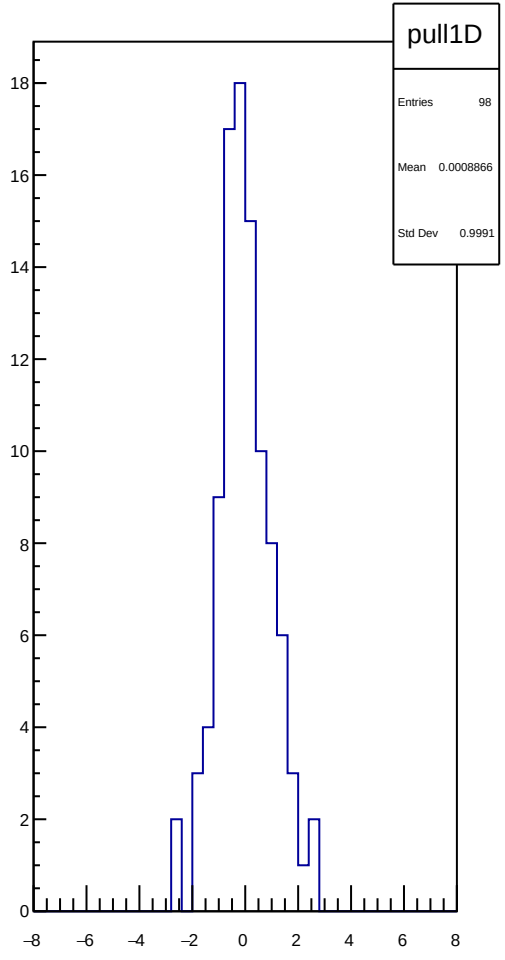

diff_bpm0i01Y_rms vs run
χ² / ndf 1.331e+04 / 97
p0 1589 ± 1.144
1700
1600
1500
1400
1300
1200
1100
1000

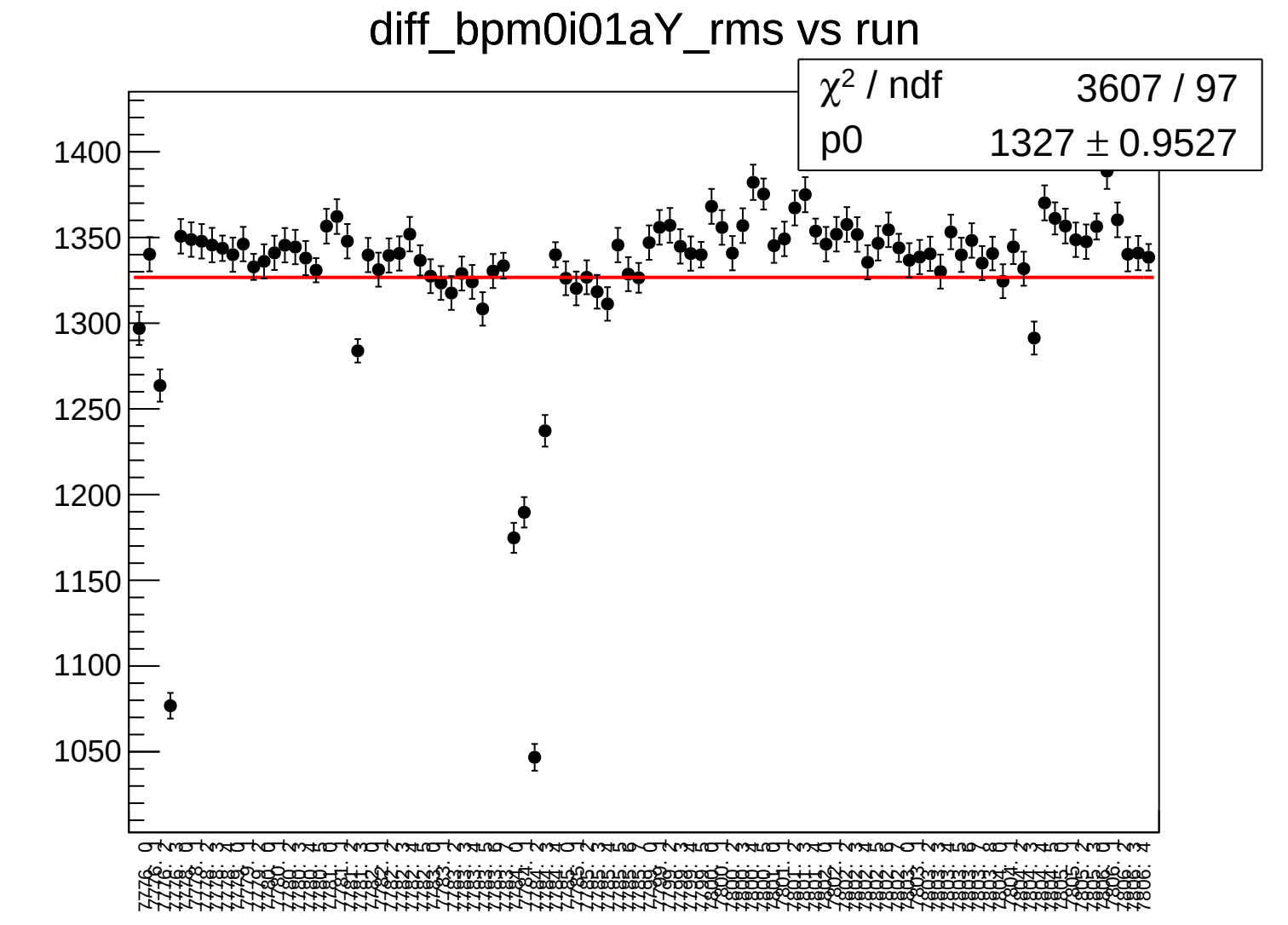

diff_bpm0i01aX_mean vs run
χ^2 / ndf 107.9 / 97
p0 34.15 ± 1.544
pull
Entries 98
Mean −2562
Std Dev 0

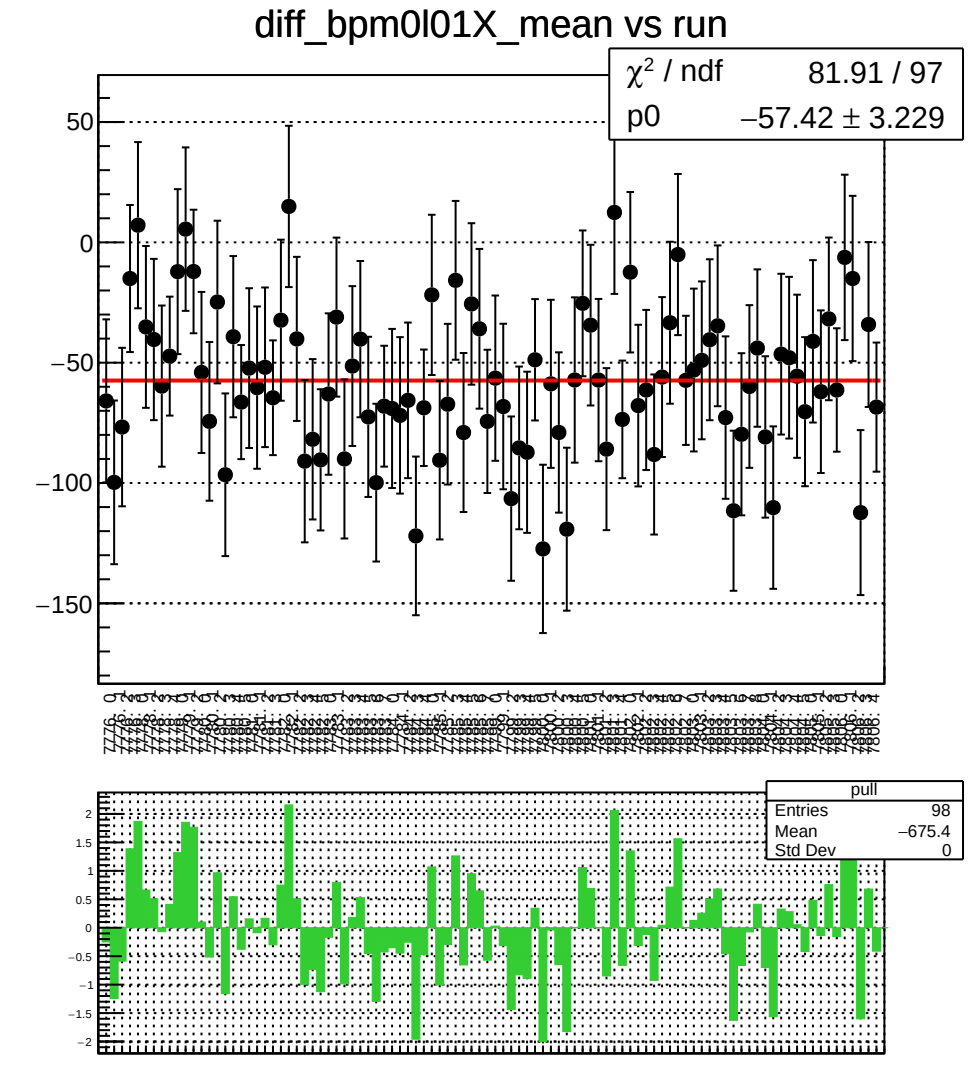

pull1D
Entries 98
Mean −0.0003285
Std Dev 1.049

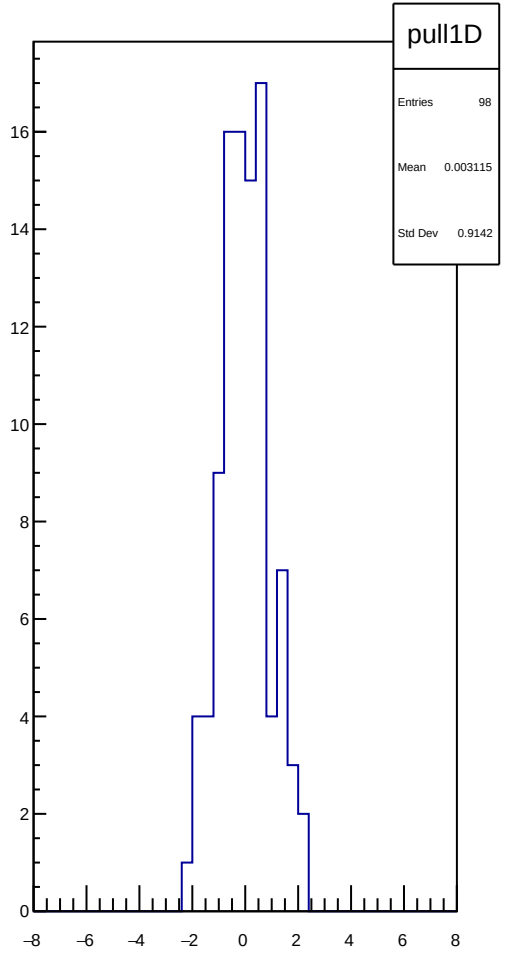

diff_bpm0i01aX_rms vs run
χ² / ndf 1.475e+04 / 97
p0 1516 ± 1.091
1700
1600
1500
1400
1300
1200
1100
1000
900

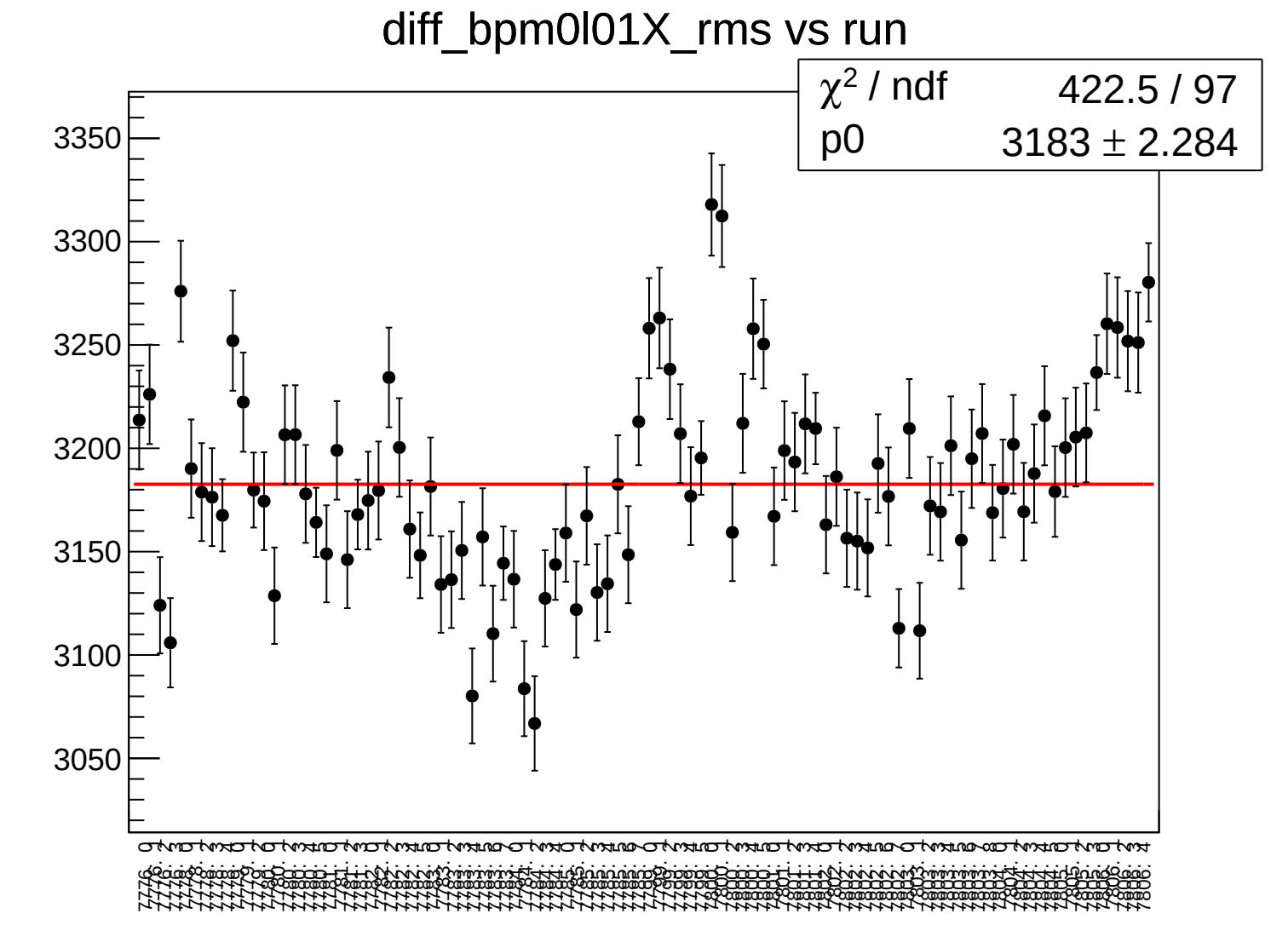

diff_bpm0i01aY_mean vs run
χ² / ndf 97.82 / 97
p0 21.8 ± 1.347
pull
Entries 98
Mean 1941
Std Dev 0

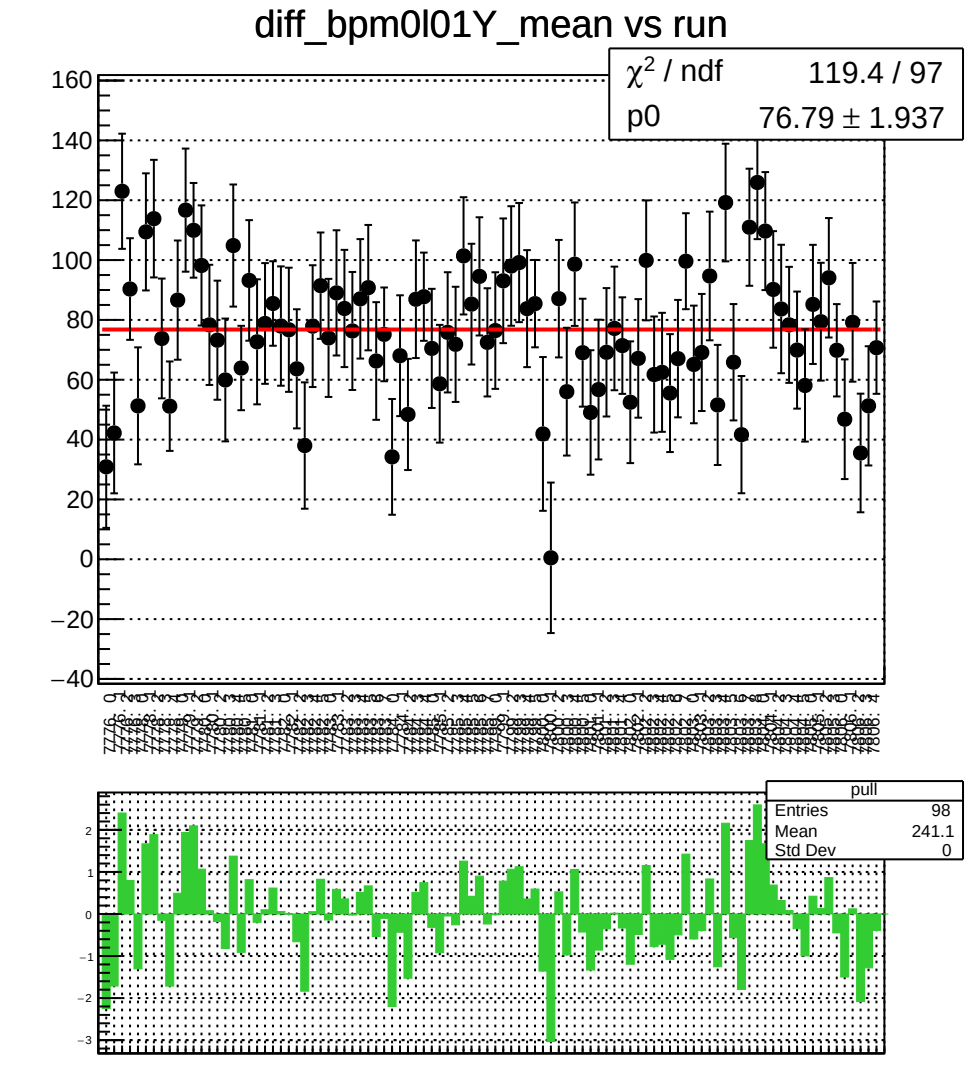

pull1D
Entries 98
Mean 0.0008866
Std Dev 0.9991

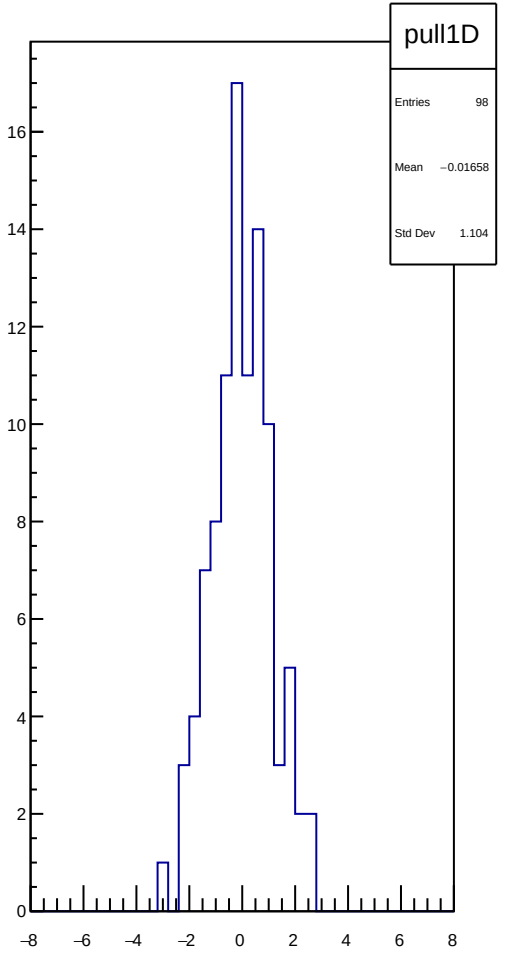

diff_bpm0i01aY_rms vs run
χ² / ndf 3607 / 97
p0 1327 ± 0.9527
1400
1350
1300
1250
1200
1150
1100
1050

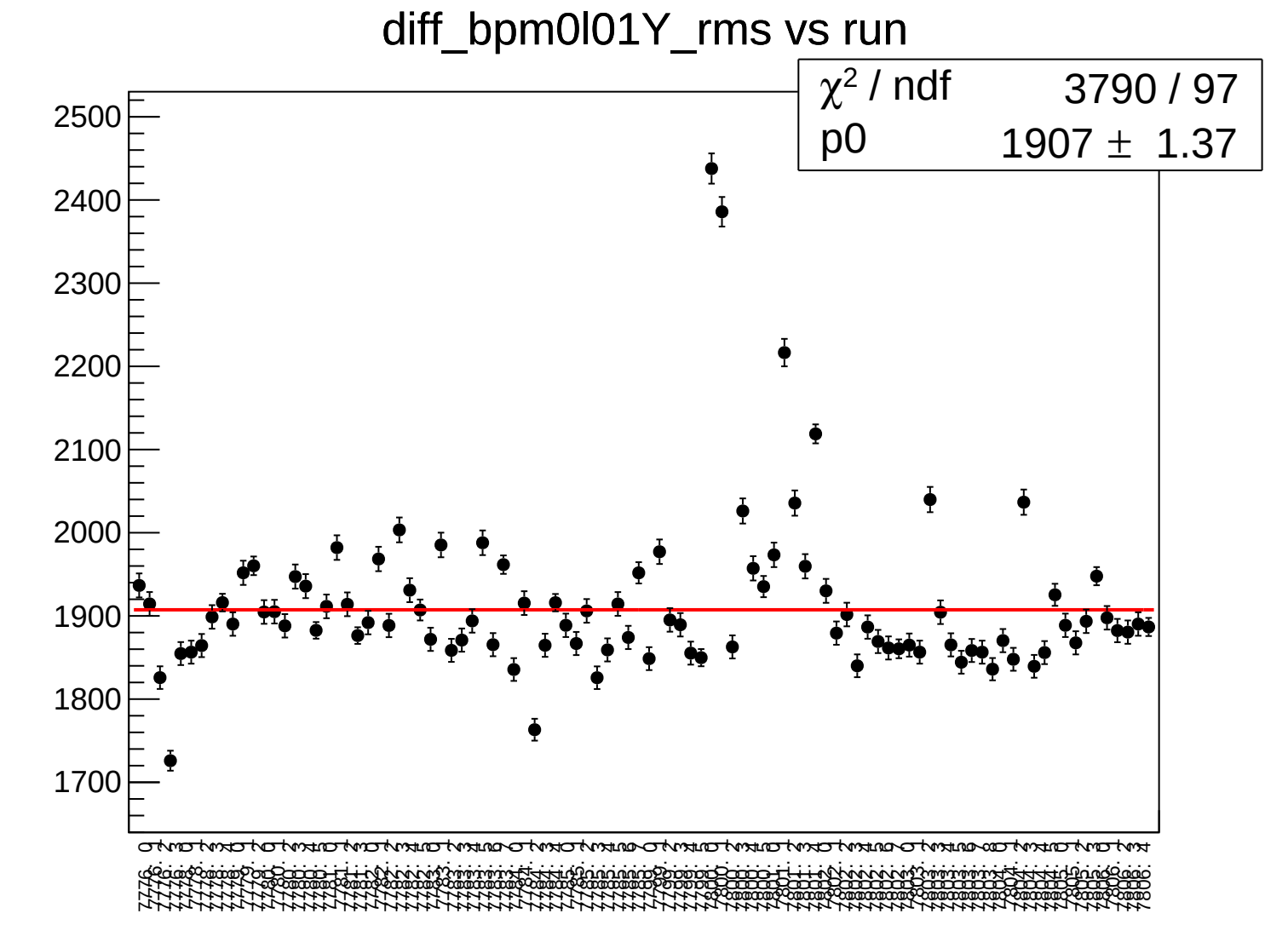

diff_bpm0l01X_mean vs run
χ² / ndf 81.91 / 97
p0 −57.42 ± 3.229
50
0
−50
−100
−150
pull
Entries 98
Mean −675.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

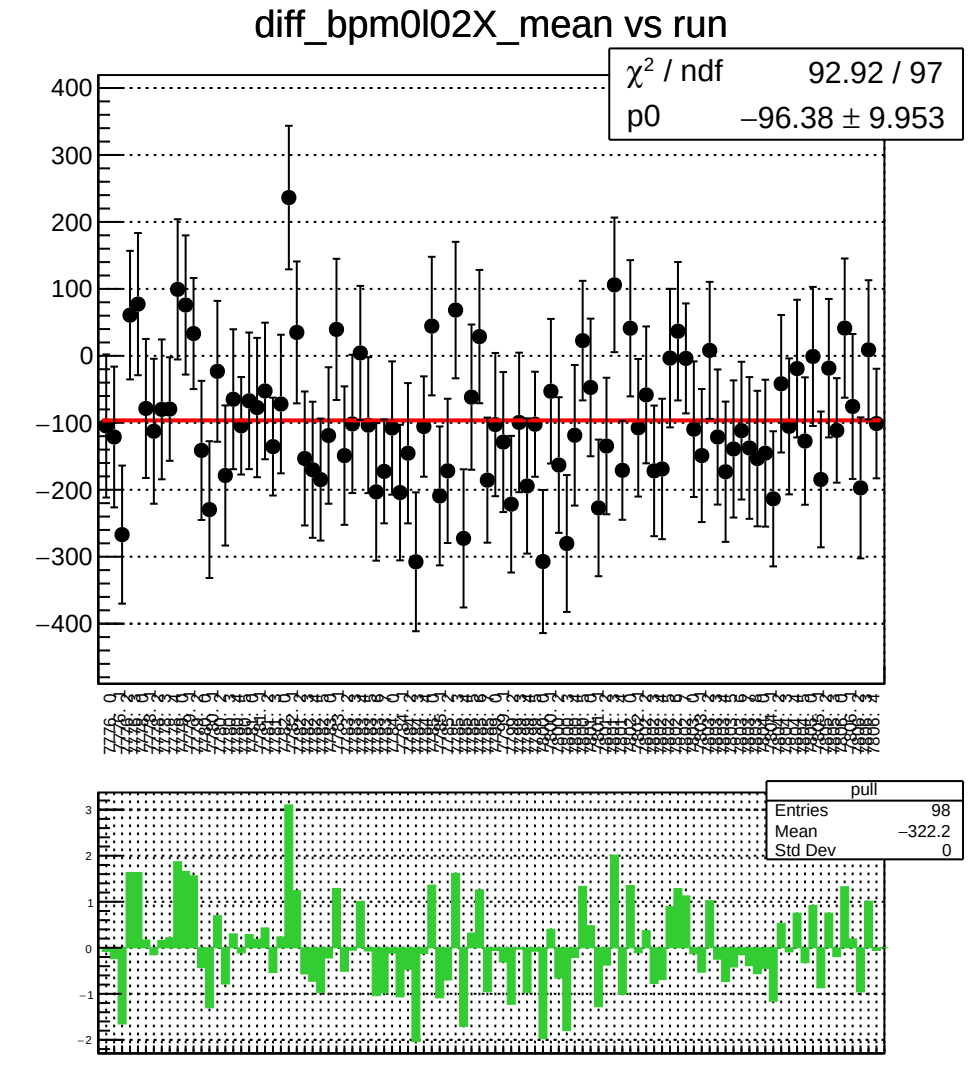

pull1D
Entries 98
Mean 0.003115
Std Dev 0.9142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

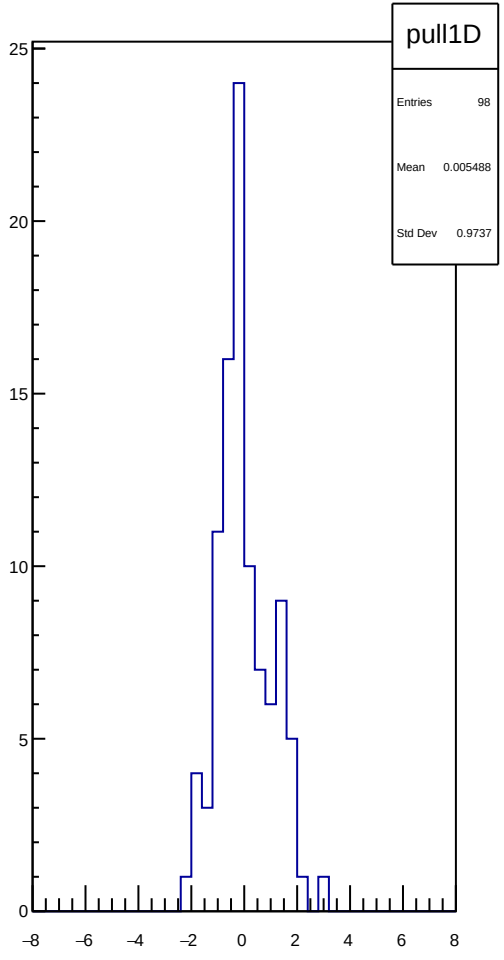

diff_bpm0l01X_rms vs run
χ² / ndf 422.5 / 97
p0 3183 ± 2.284
3350
3300
3250
3200
3150
3100
3050

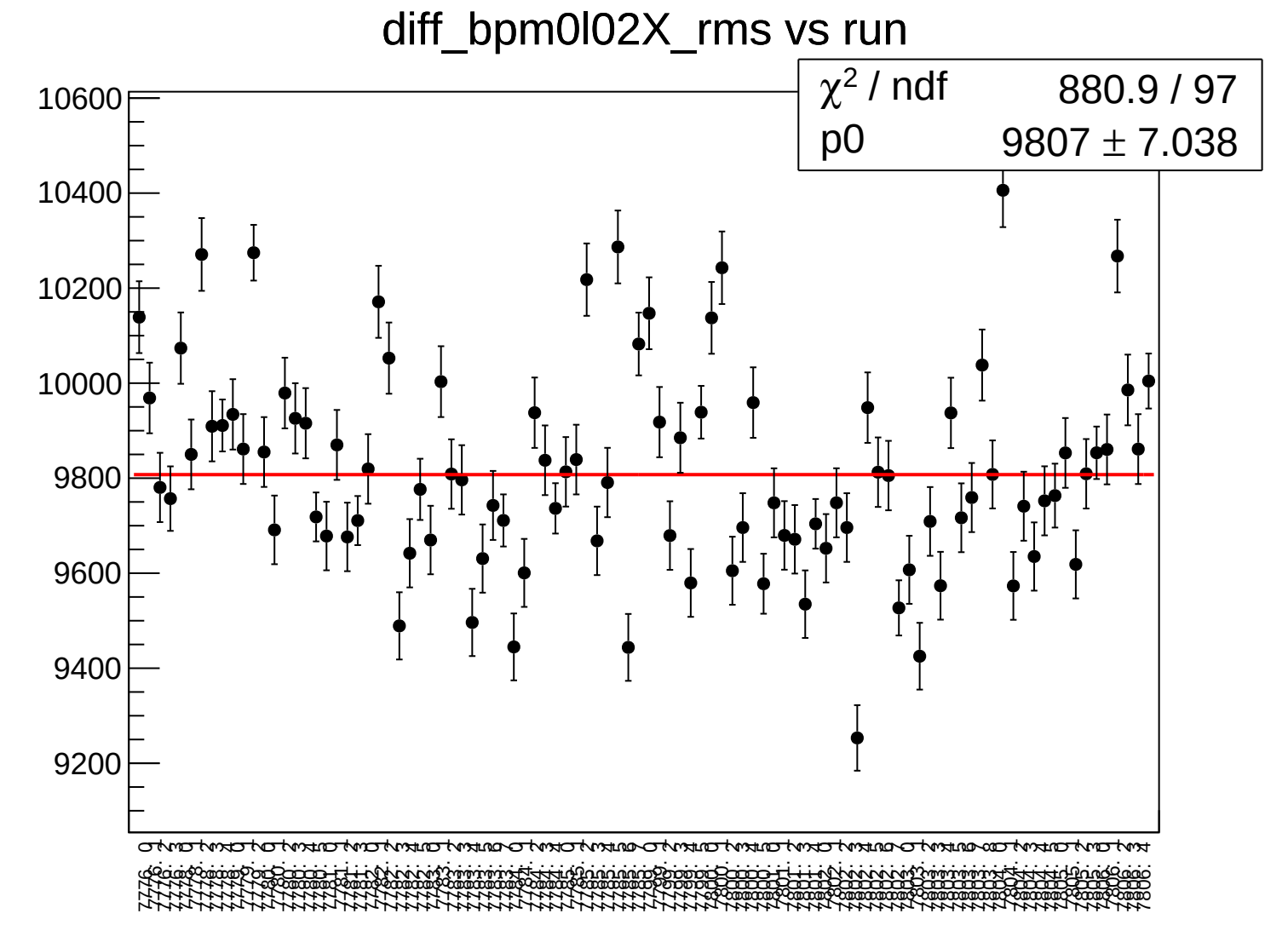

diff_bpm0l01Y_mean vs run
χ² / ndf 119.4 / 97
p0 76.79 ± 1.937
pull
Entries 98
Mean 241.1
Std Dev 0

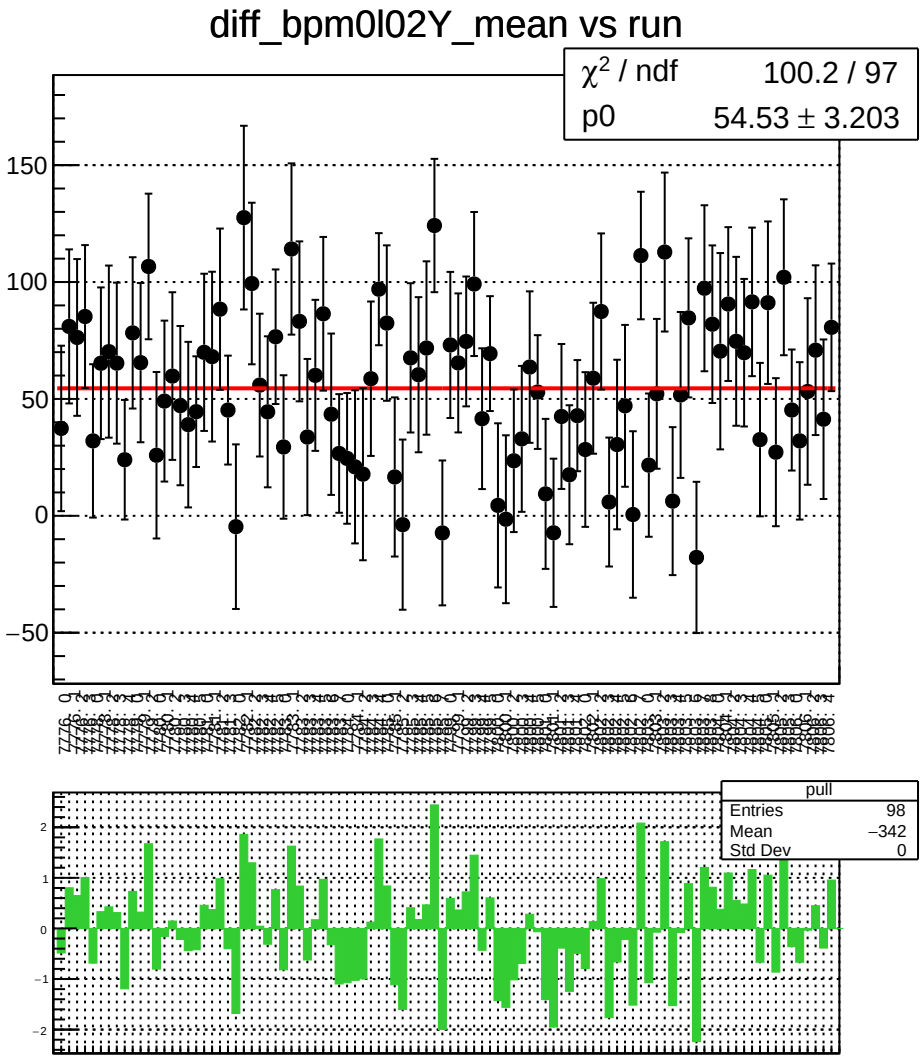

pull1D
Entries 98
Mean −0.01658
Std Dev 1.104

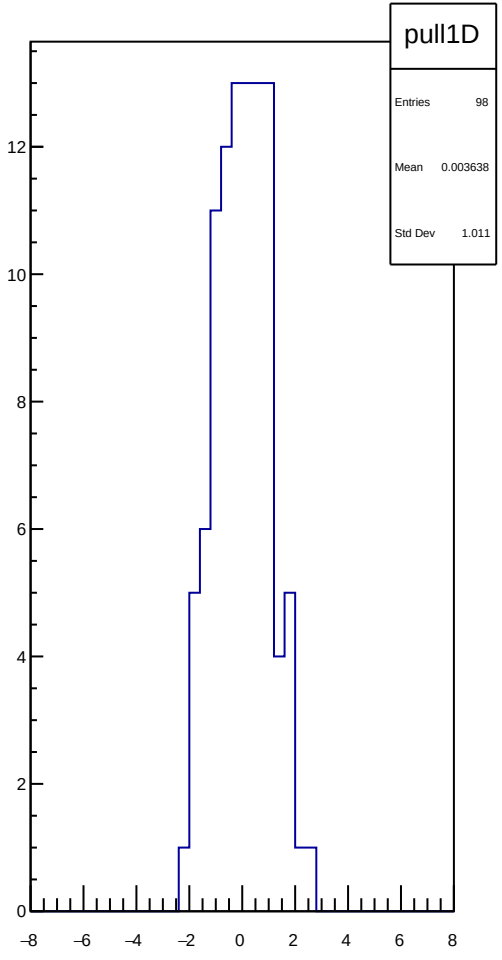

diff_bpm0l01Y_rms vs run
χ² / ndf 3790 / 97
p0 1907 ± 1.37
2500
2400
2300
2200
2100
2000
1900
1800
1700

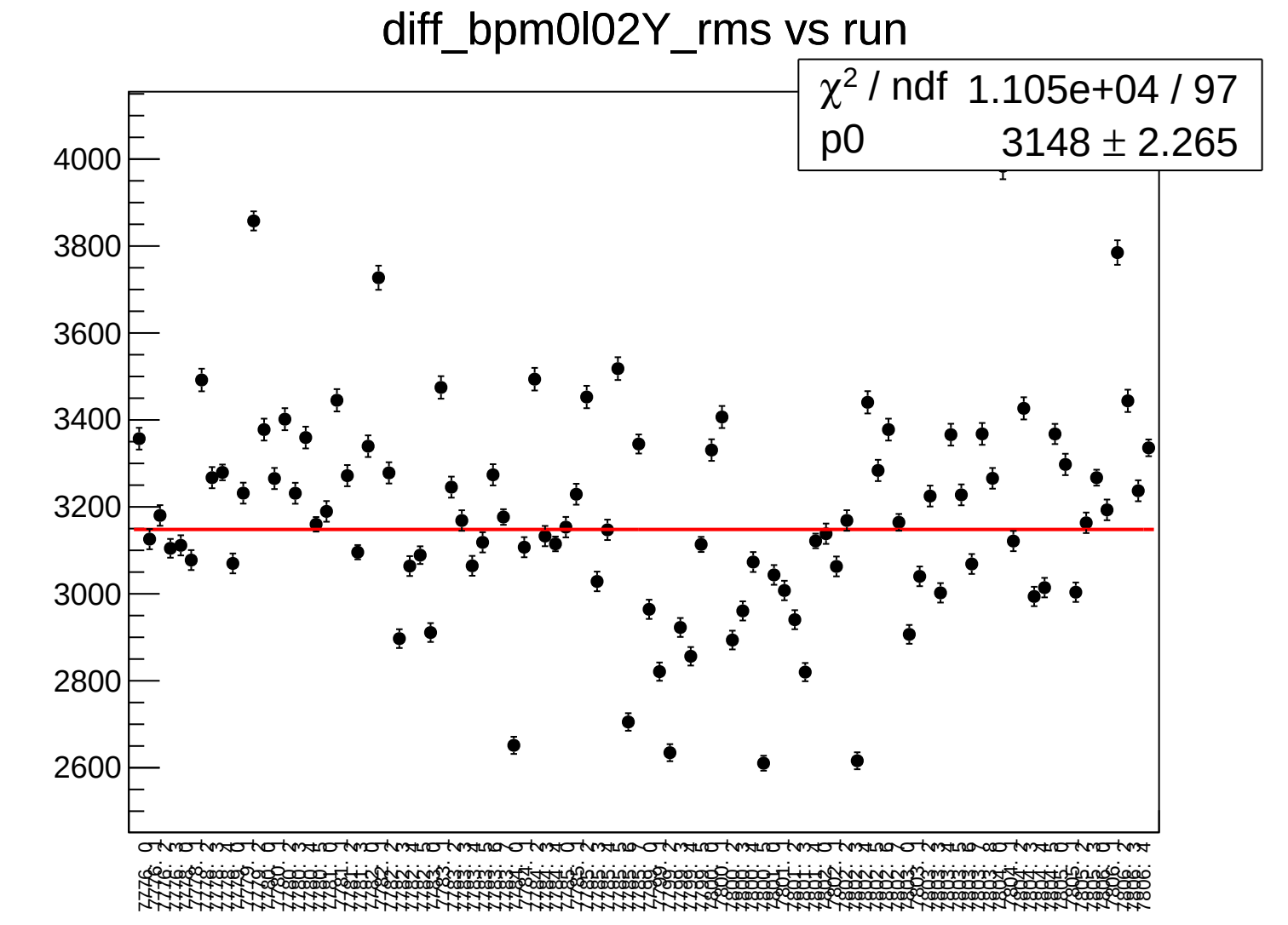

diff_bpm0l02X_mean vs run
χ² / ndf 92.92 / 97
p0 −96.38 ± 9.953
pull
Entries 98
Mean −322.2
Std Dev 0

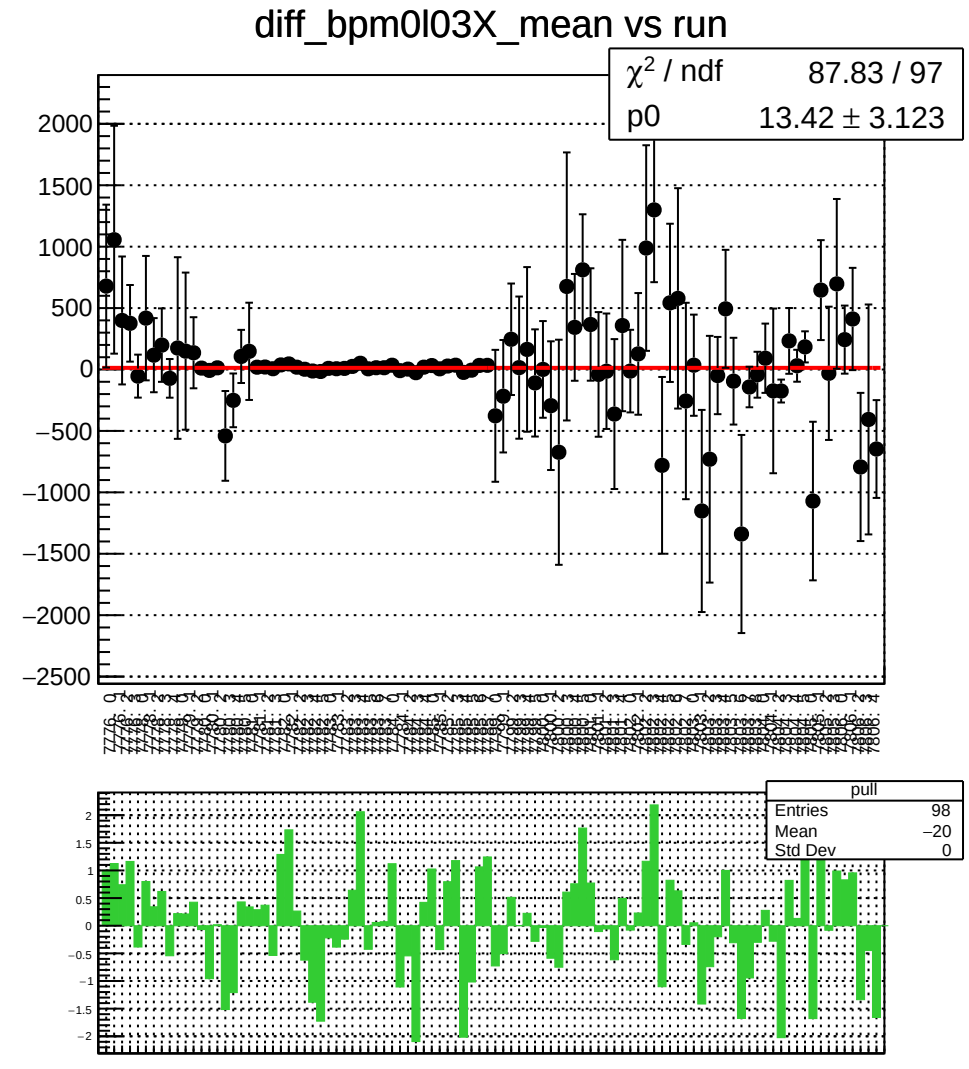

pull1D
Entries 98
Mean 0.005488
Std Dev 0.9737

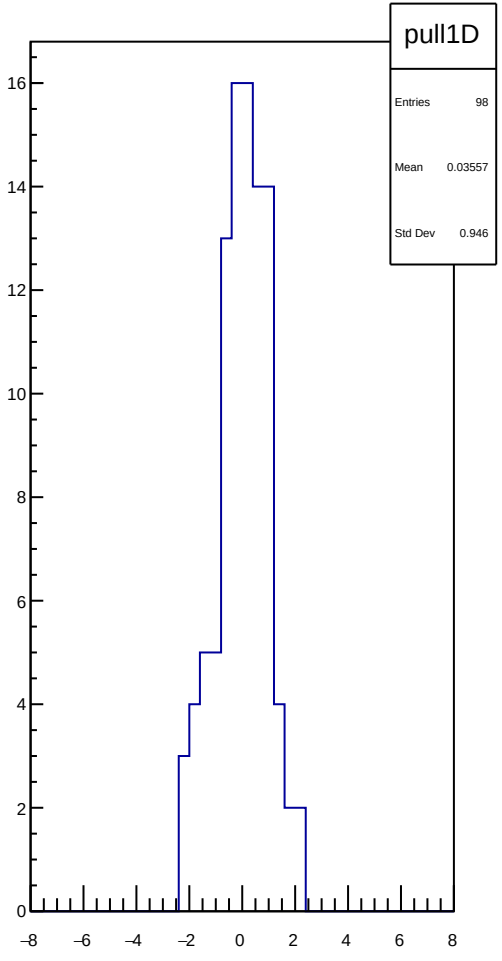

diff_bpm0l02X_rms vs run
χ² / ndf 880.9 / 97
p0 9807 ± 7.038
10600
10400
10200
10000
9800
9600
9400
9200

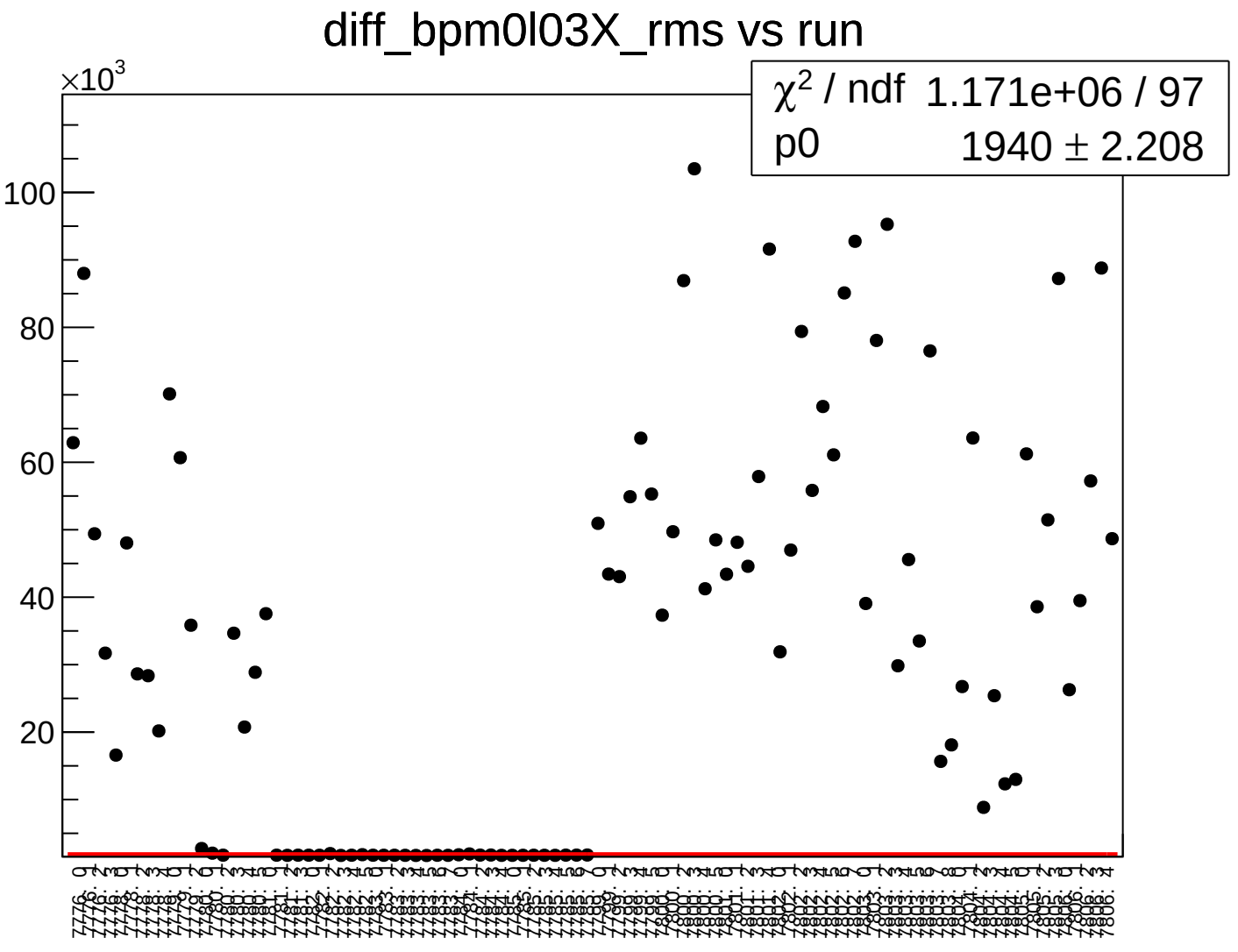

diff_bpm0l02Y_mean vs run
χ^2 / ndf 100.2 / 97
p0 54.53 ± 3.203
150
100
50
0
−50
pull
Entries 98
Mean −342
Std Dev 0
2
1
0
−1
−2

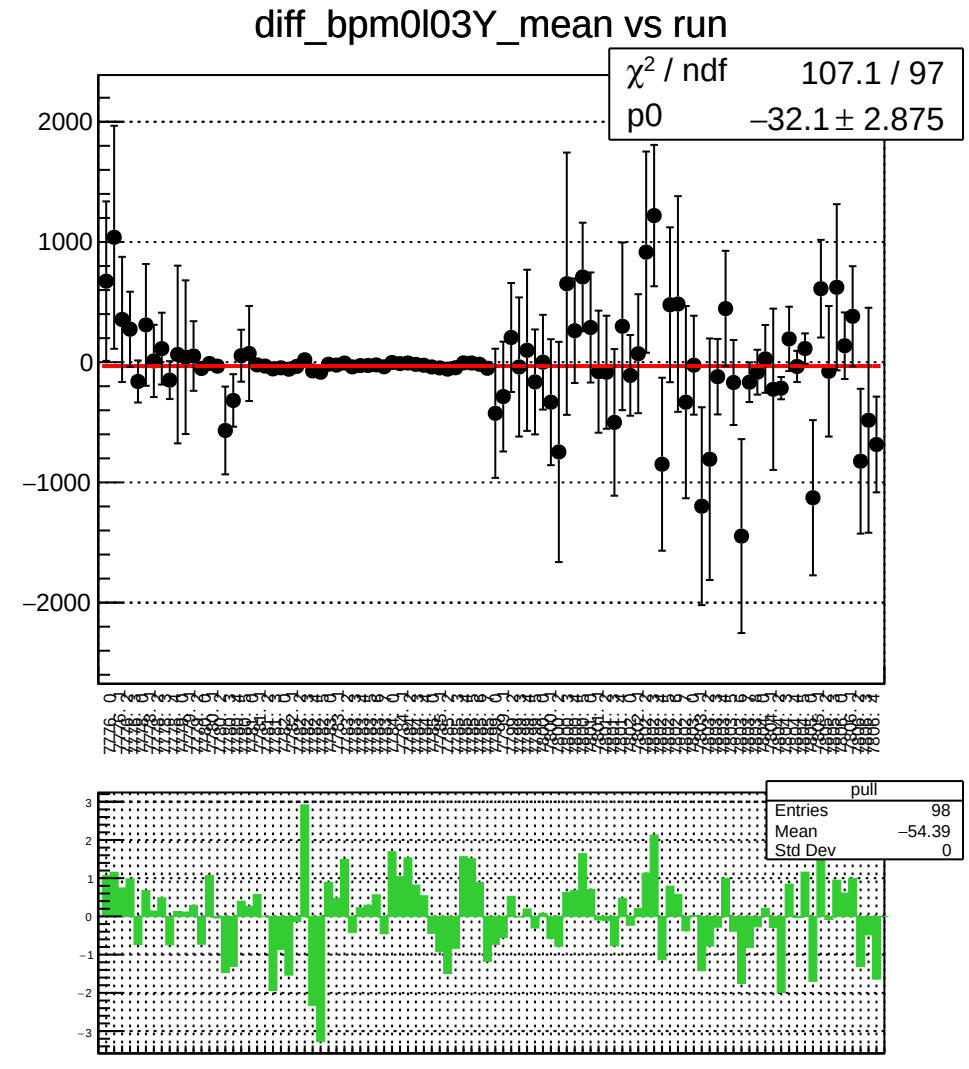

pull1D
Entries 98
Mean 0.003638
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

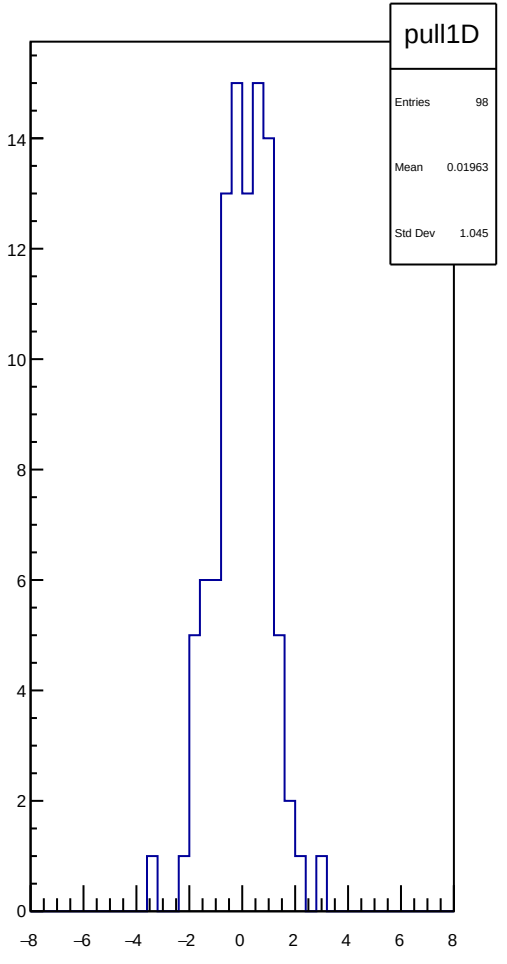

diff_bpm0l02Y_rms vs run
χ² / ndf 1.105e+04 / 97
p0 3148 ± 2.265
4000
3800
3600
3400
3200
3000
2800
2600

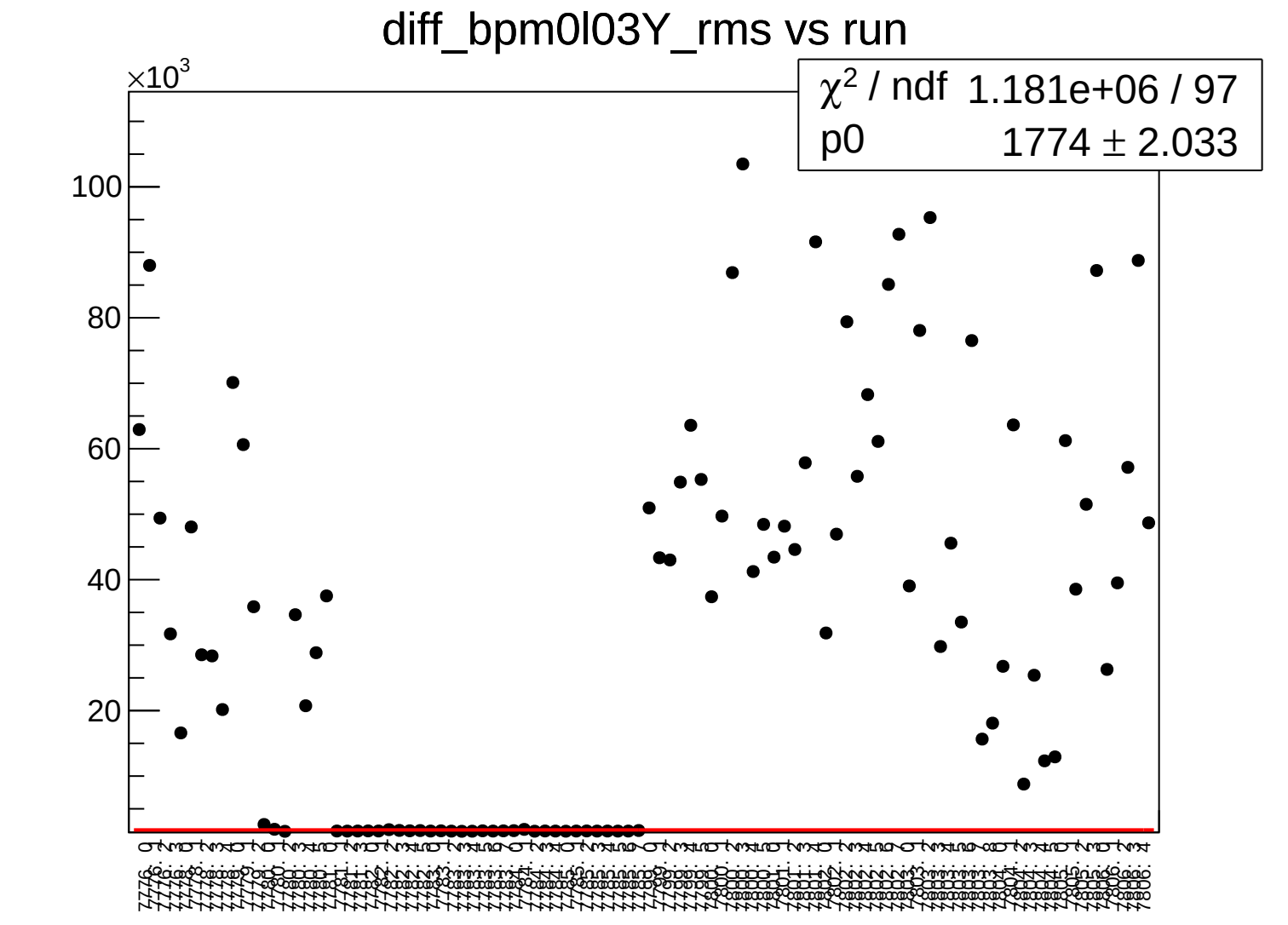

diff_bpm0l03X_mean vs run
χ^2 / ndf 87.83 / 97
p0 13.42 ± 3.123
pull
Entries 98
Mean −20
Std Dev 0

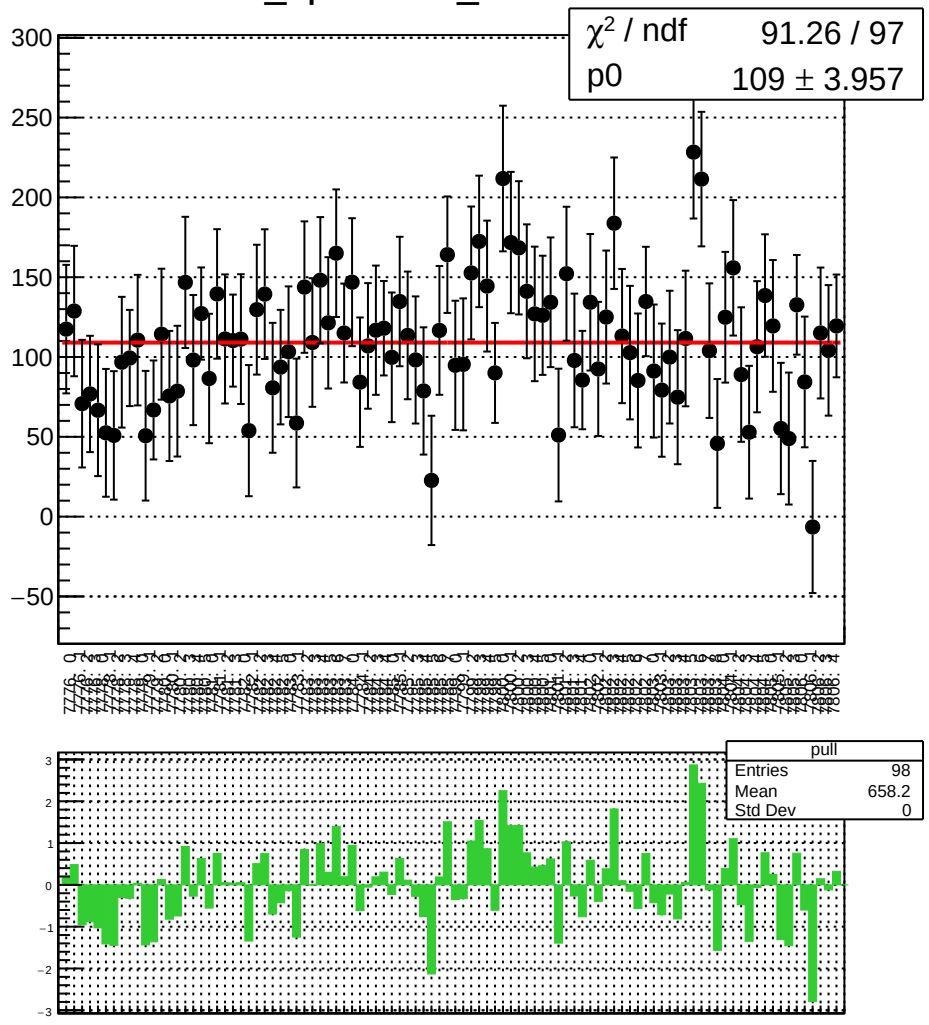

pull1D
Entries 98
Mean 0.03557
Std Dev 0.946

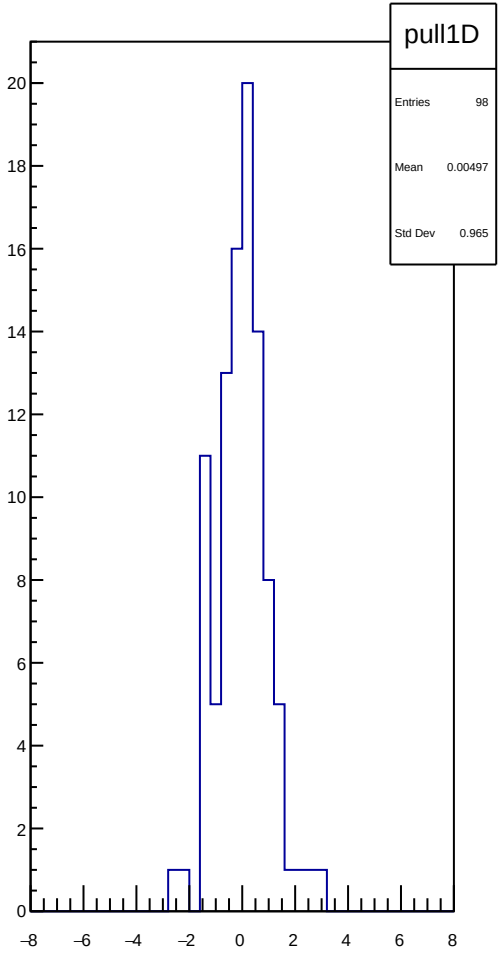

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 1.171e+06 / 97
p0 1940 ± 2.208
100
80
60
40
20

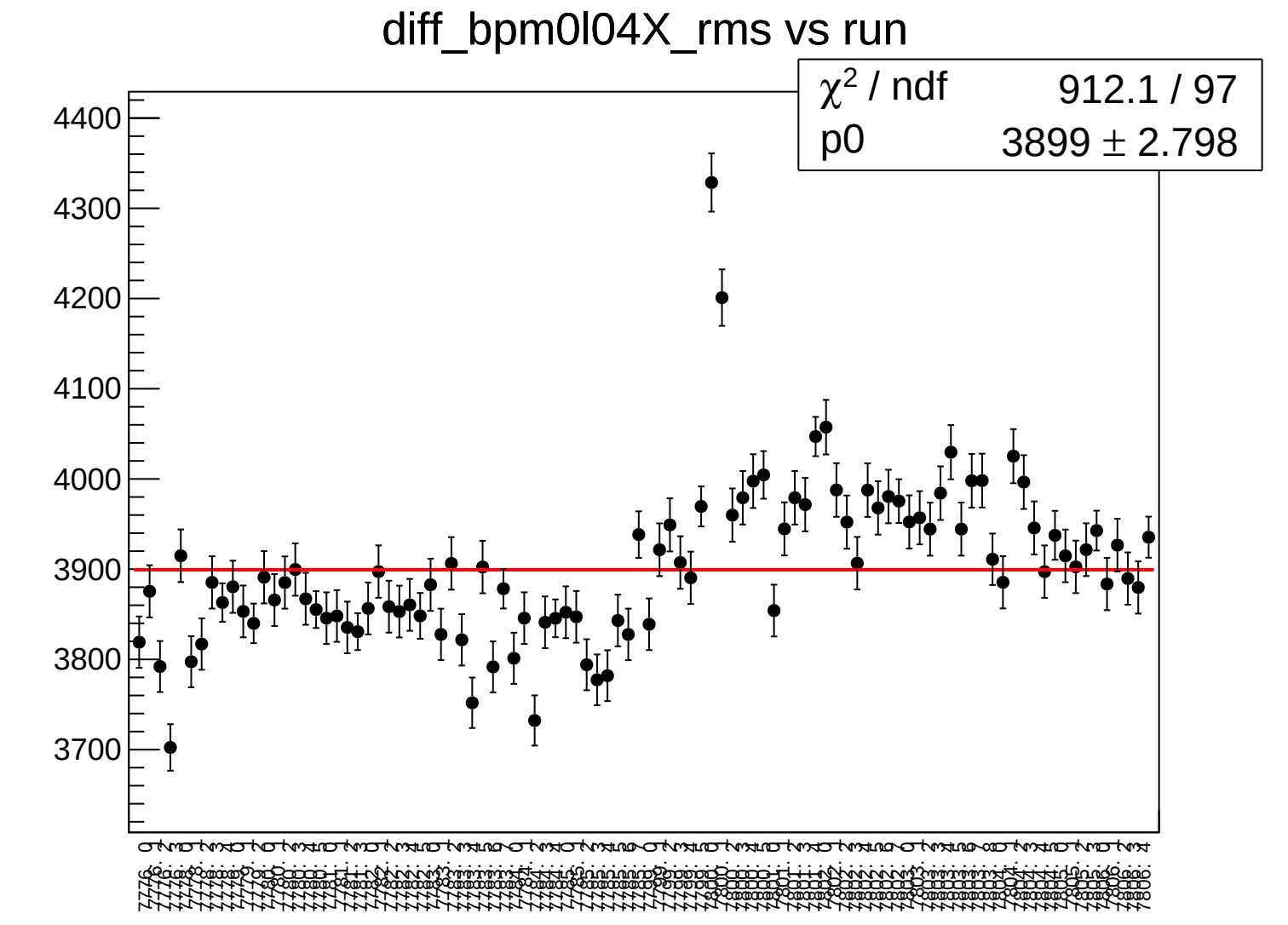

diff_bpm0l03Y_mean vs run
χ² / ndf 107.1 / 97
p0 −32.1 ± 2.875
2000
1000
0
−1000
−2000
pull
Entries 98
Mean −54.39
Std Dev 0
3
2
1
0
−1
−2
−3

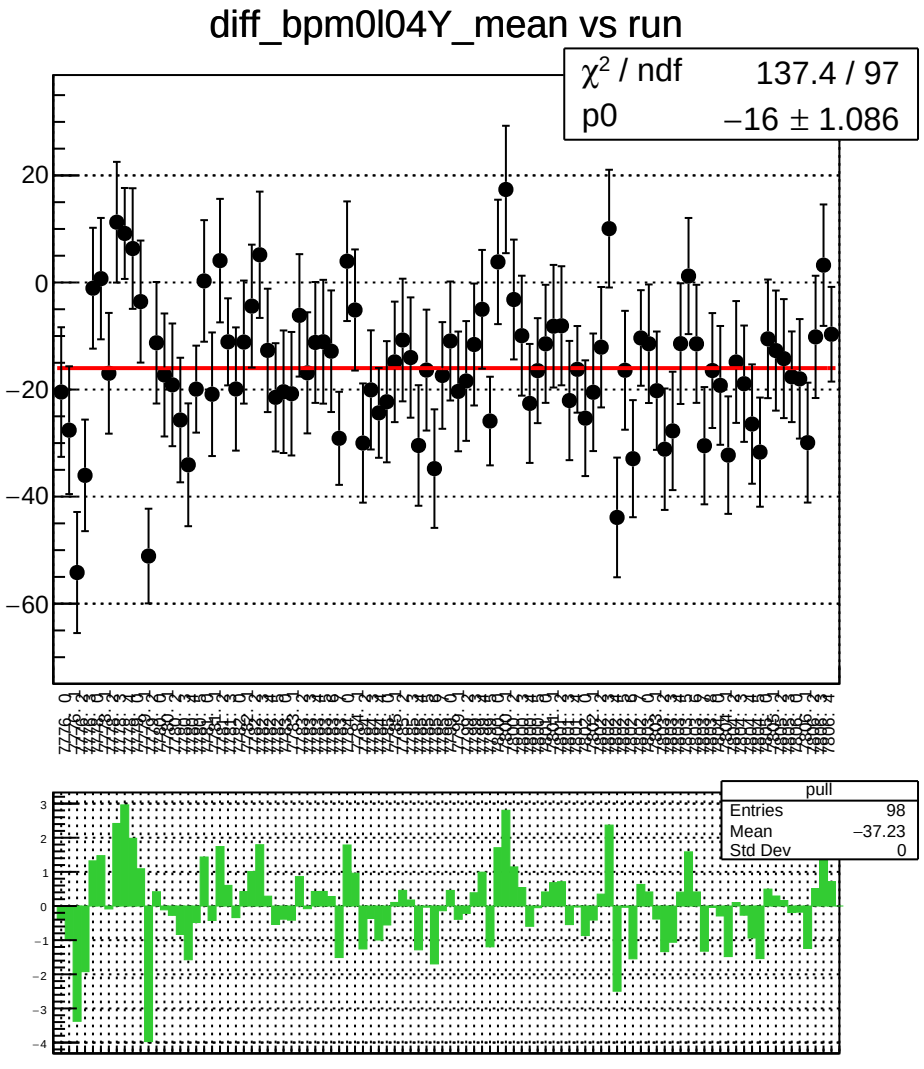

pull1D
Entries 98
Mean 0.01963
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

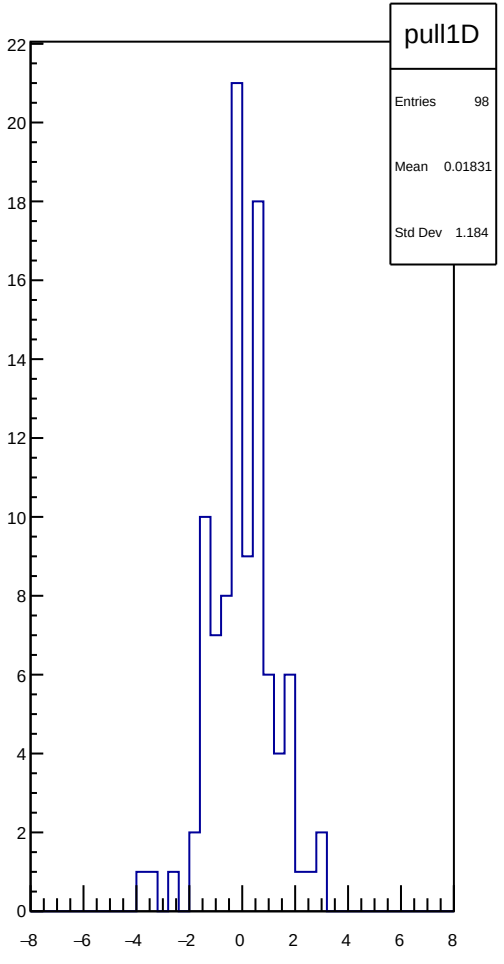

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 1.181e+06 / 97
p0 1774 ± 2.033
100
80
60
40
20

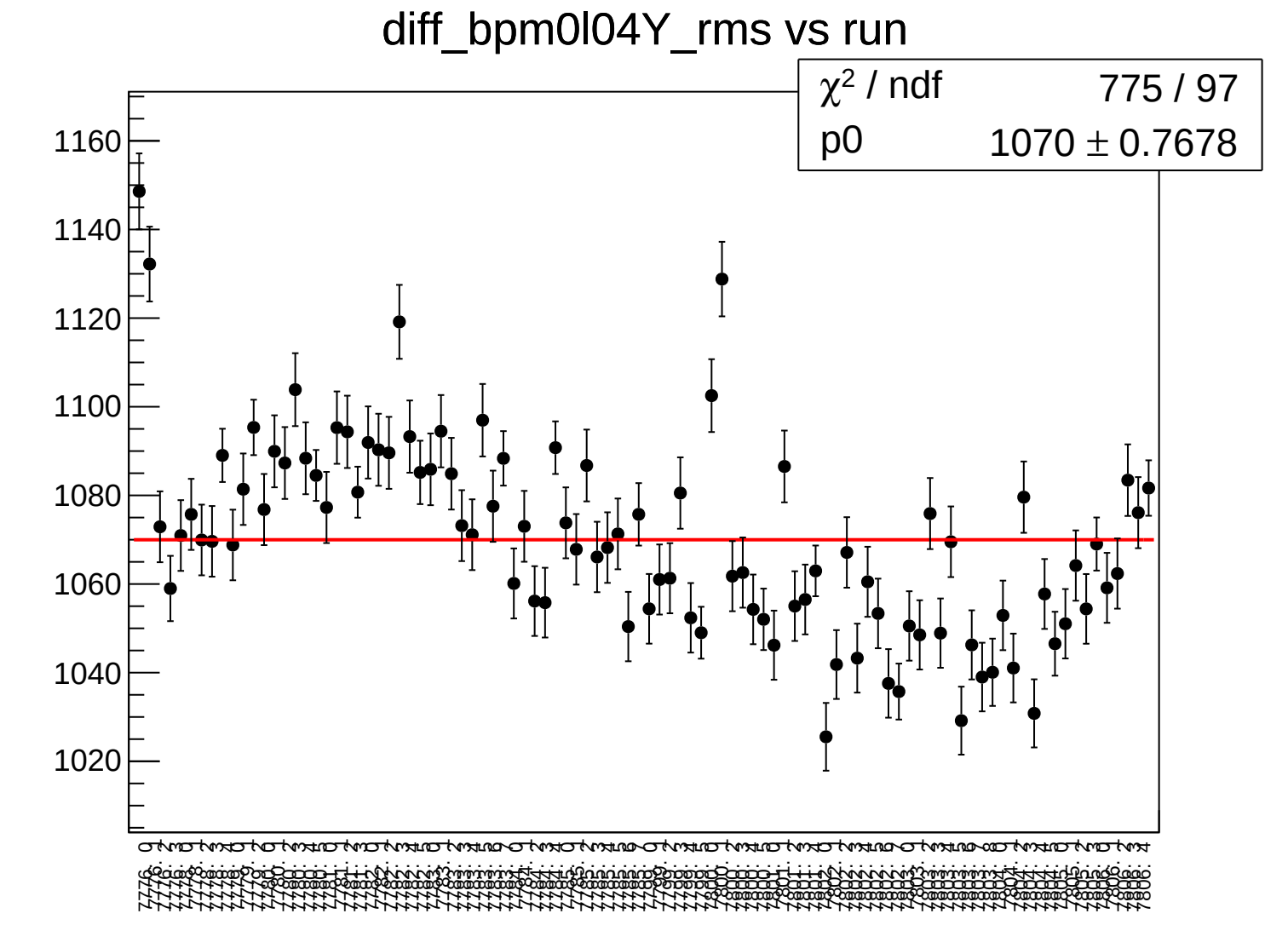

diff_bpm0l04X_mean vs run
χ² / ndf 91.26 / 97
p0 109 ± 3.957
pull
Entries 98
Mean 658.2
Std Dev 0

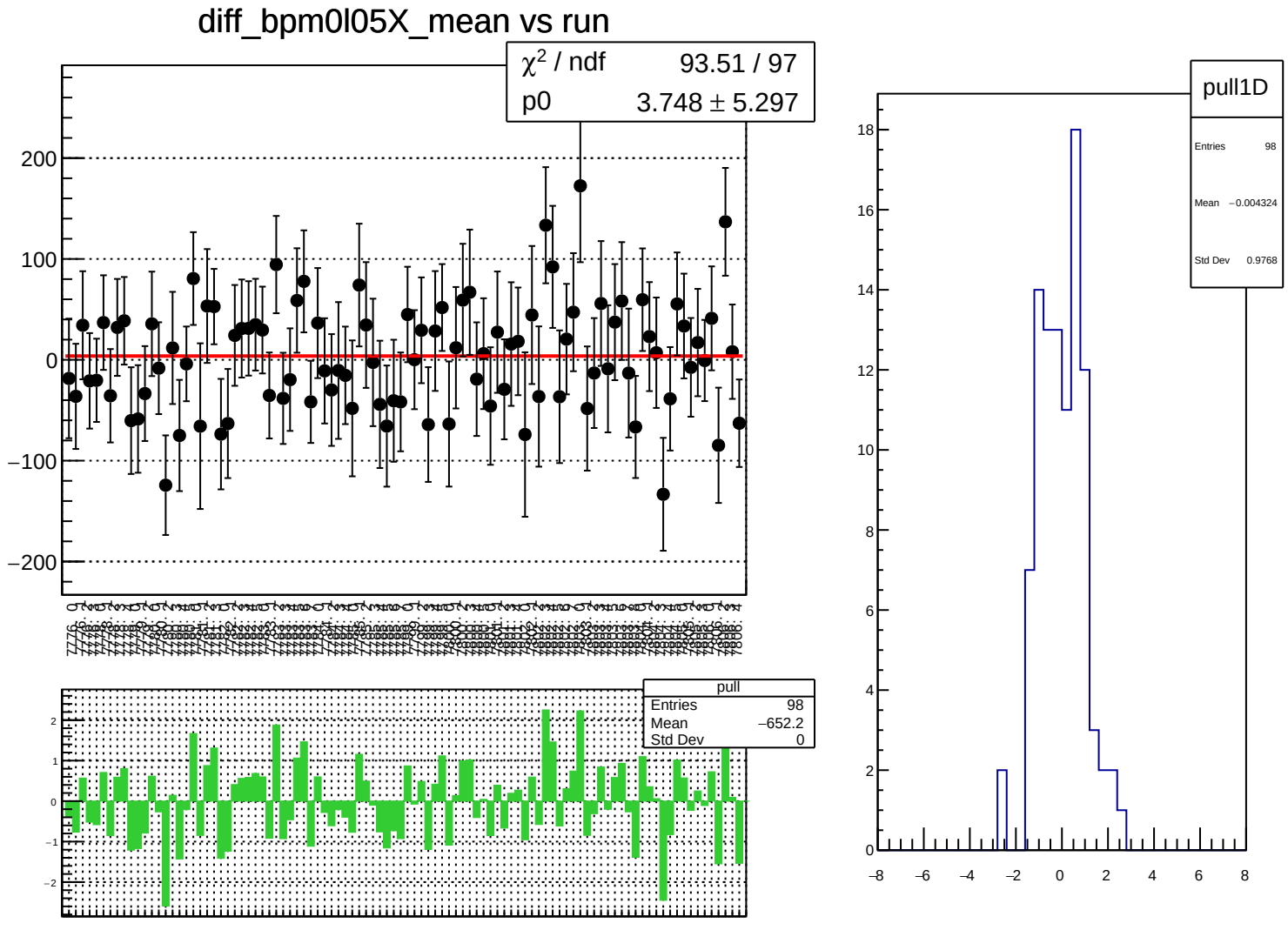

pull1D
Entries 98
Mean 0.00497
Std Dev 0.965

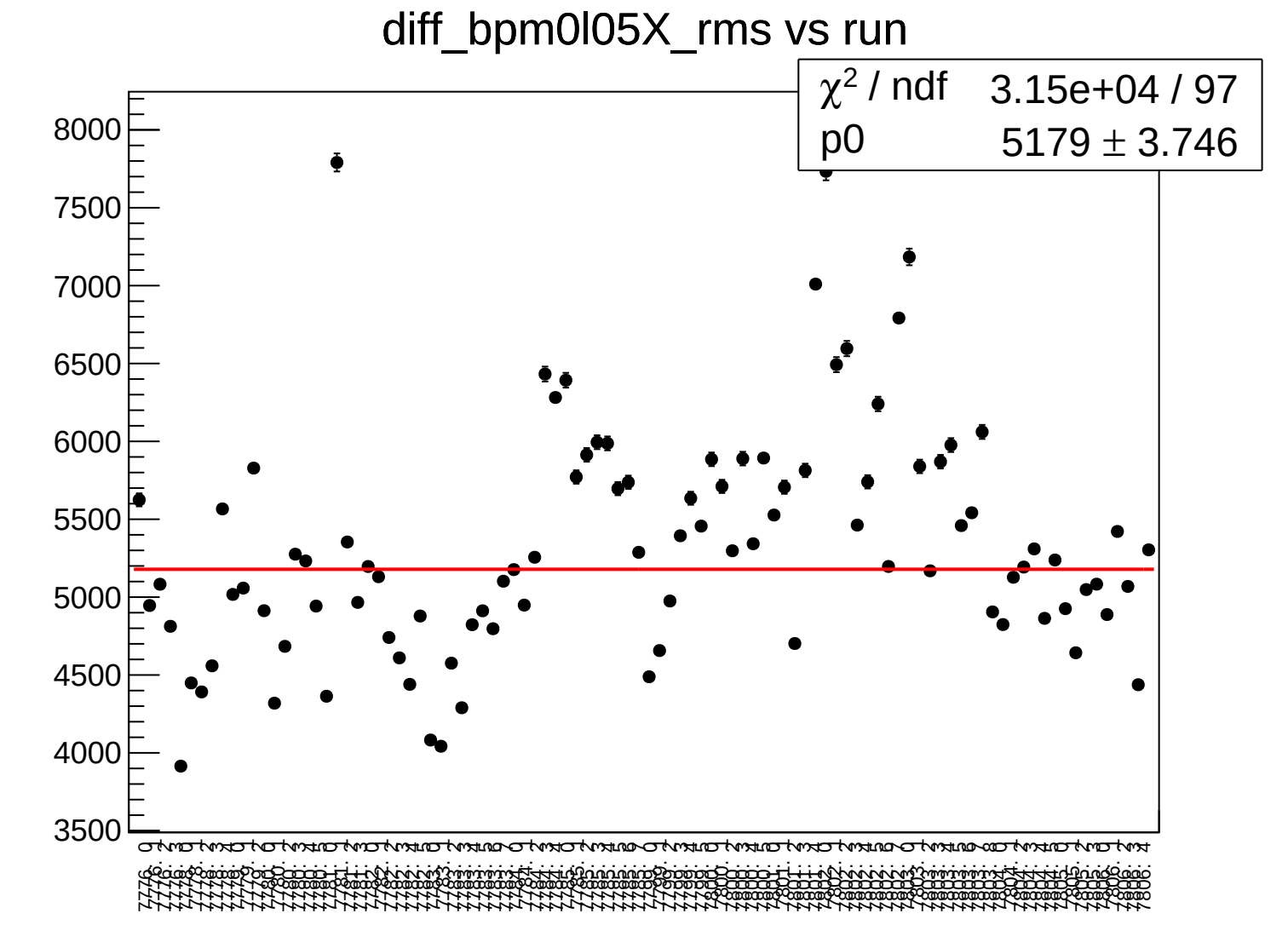

diff_bpm0l04X_rms vs run
χ² / ndf 912.1 / 97
p0 3899 ± 2.798
4400
4300
4200
4100
4000
3900
3800
3700

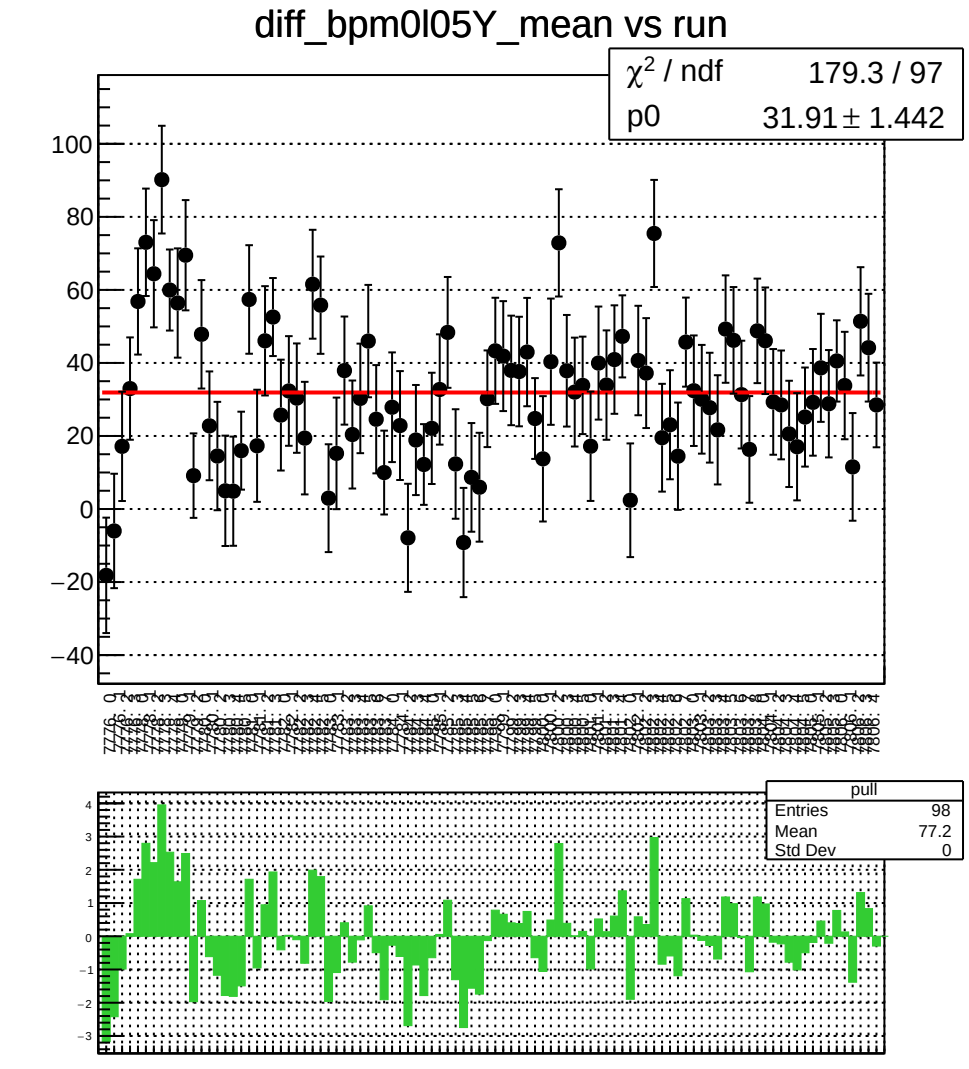

diff_bpm0l04Y_mean vs run
χ² / ndf 137.4 / 97
p0 −16 ± 1.086
20
0
−20
−40
−60
pull
Entries 98
Mean −37.23
Std Dev 0
3
2
1
0
−1
−2
−3
−4

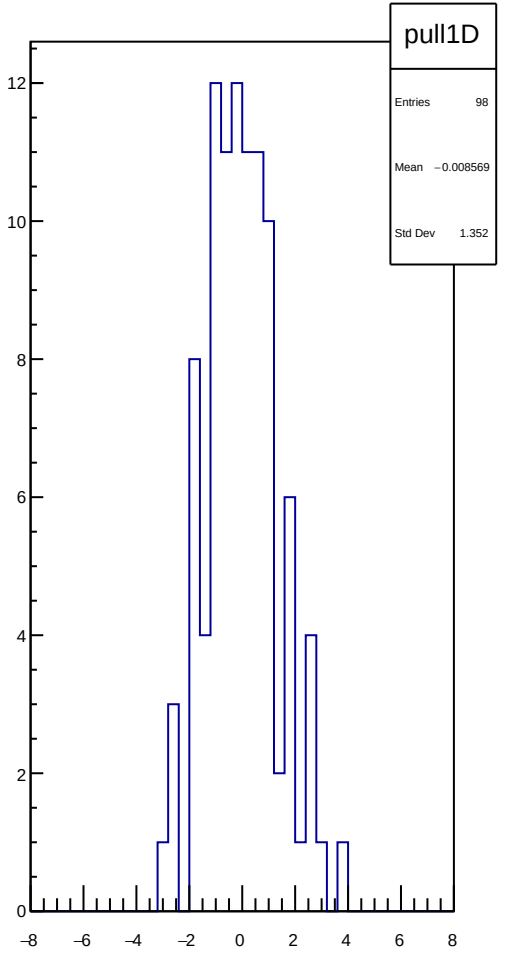

pull1D
Entries 98
Mean 0.01831
Std Dev 1.184
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

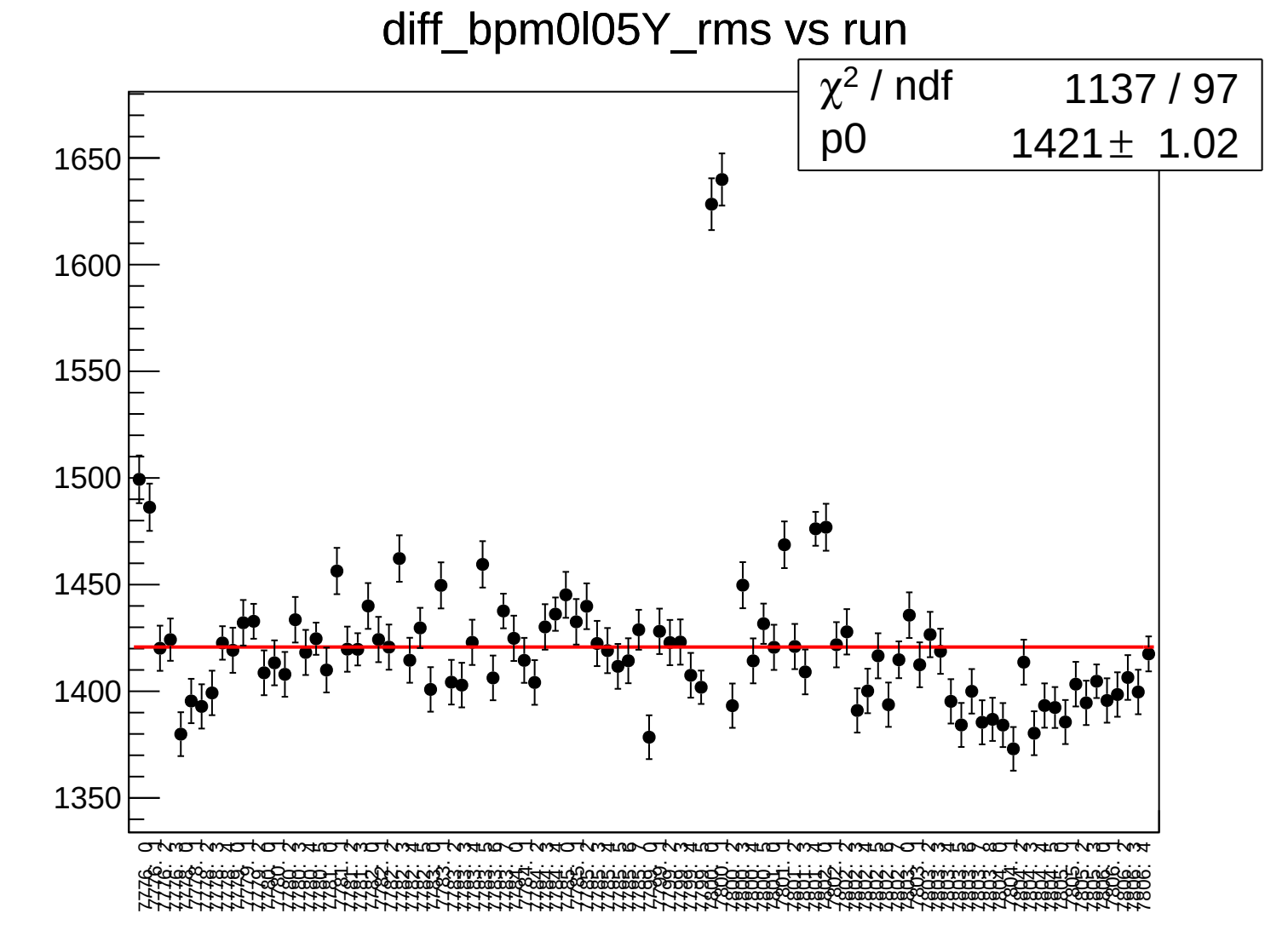

diff_bpm0l04Y_rms vs run
χ² / ndf 775 / 97
p0 1070 ± 0.7678
1160
1140
1120
1100
1080
1060
1040
1020

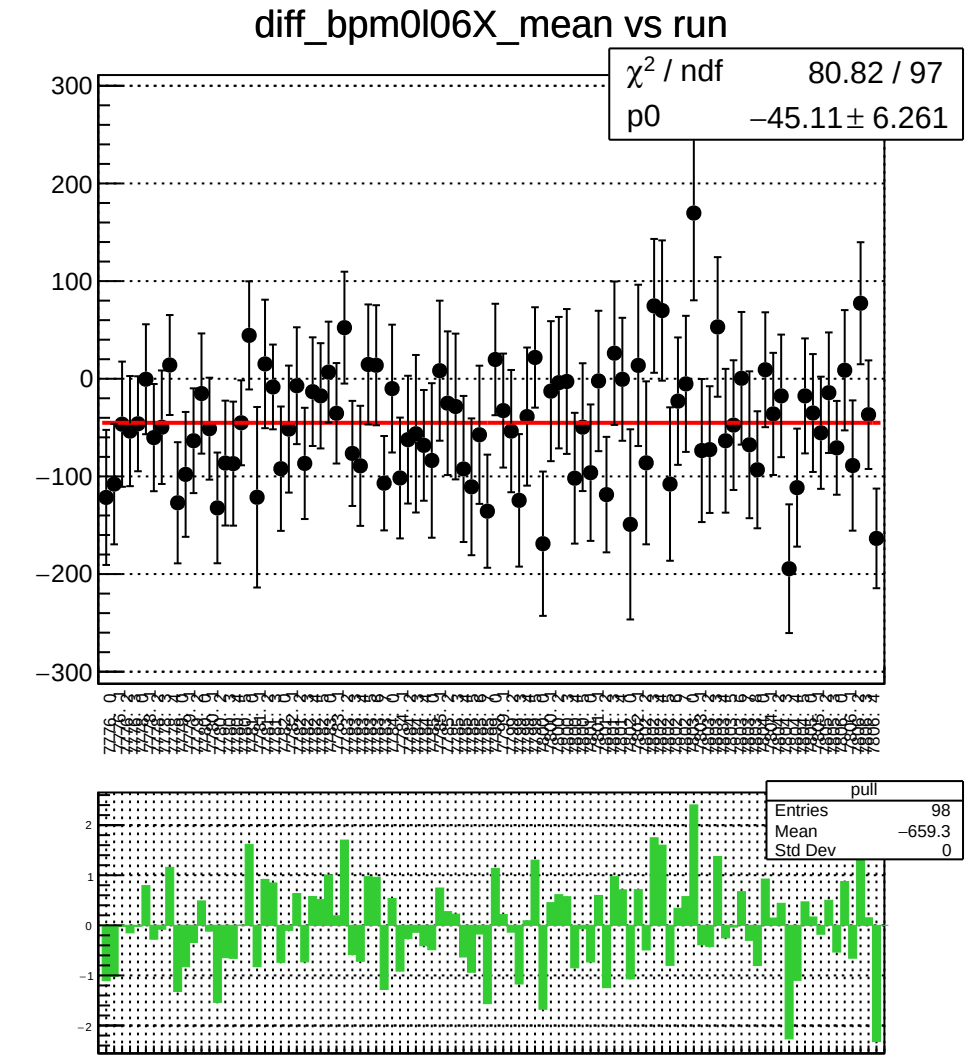

diff_bpm0l05X_mean vs run
χ² / ndf 93.51 / 97
p0 3.748 ± 5.297
200
100
0
−100
−200
pull
Entries 98
Mean −652.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.004324
Std Dev 0.9768
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

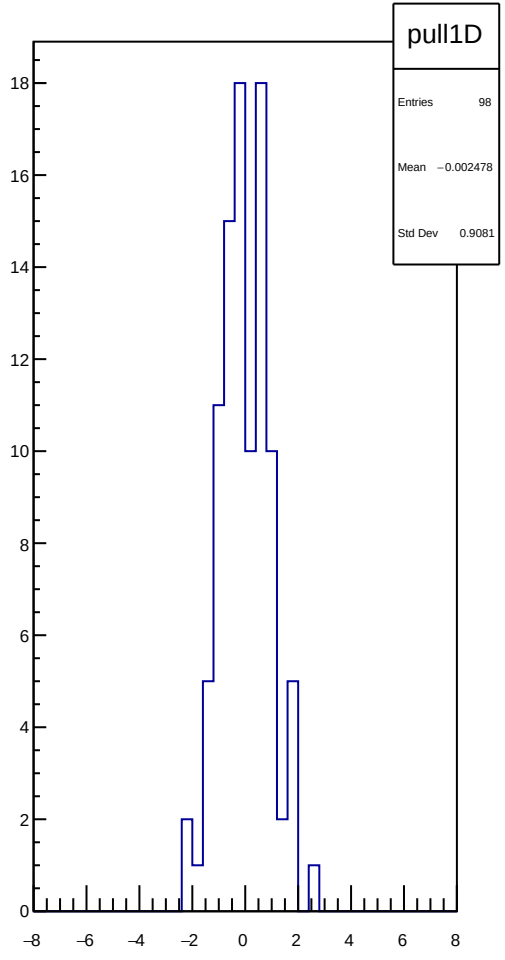

diff_bpm0l05X_rms vs run
χ² / ndf 3.15e+04 / 97
p0 5179 ± 3.746
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500

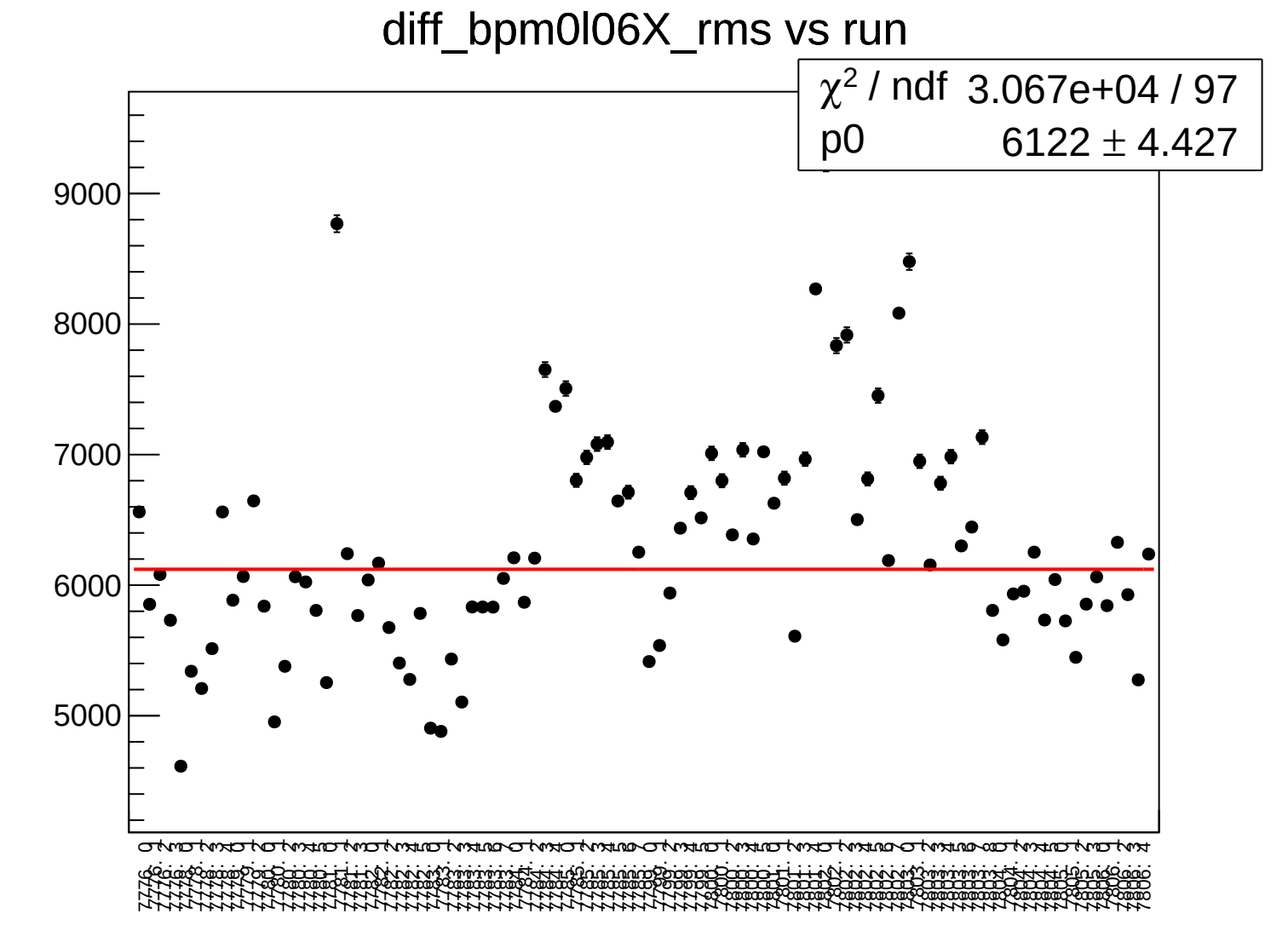

diff_bpm0l05Y_mean vs run
χ² / ndf 179.3 / 97
p0 31.91 ± 1.442
pull
Entries 98
Mean 77.2
Std Dev 0

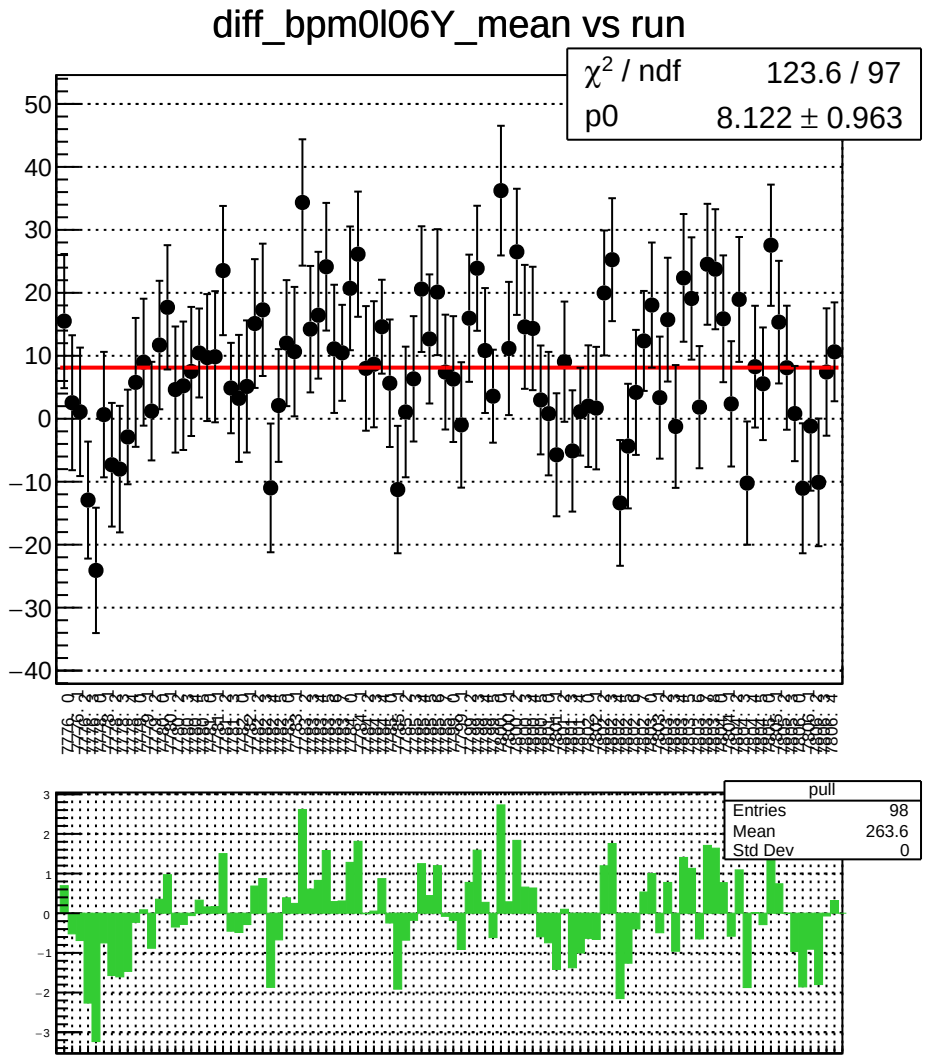

pull1D
Entries 98
Mean −0.008569
Std Dev 1.352

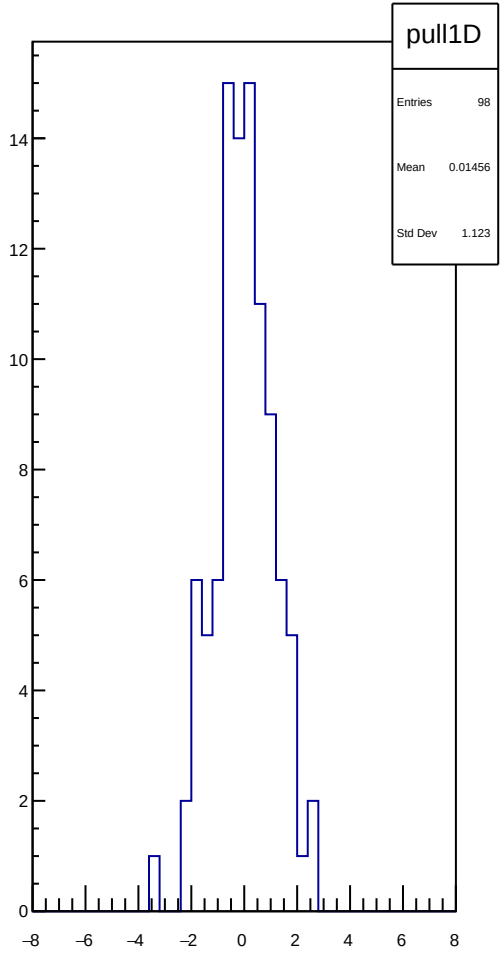

diff_bpm0l05Y_rms vs run
χ² / ndf 1137 / 97
p0 1421 ± 1.02
1650
1600
1550
1500
1450
1400
1350

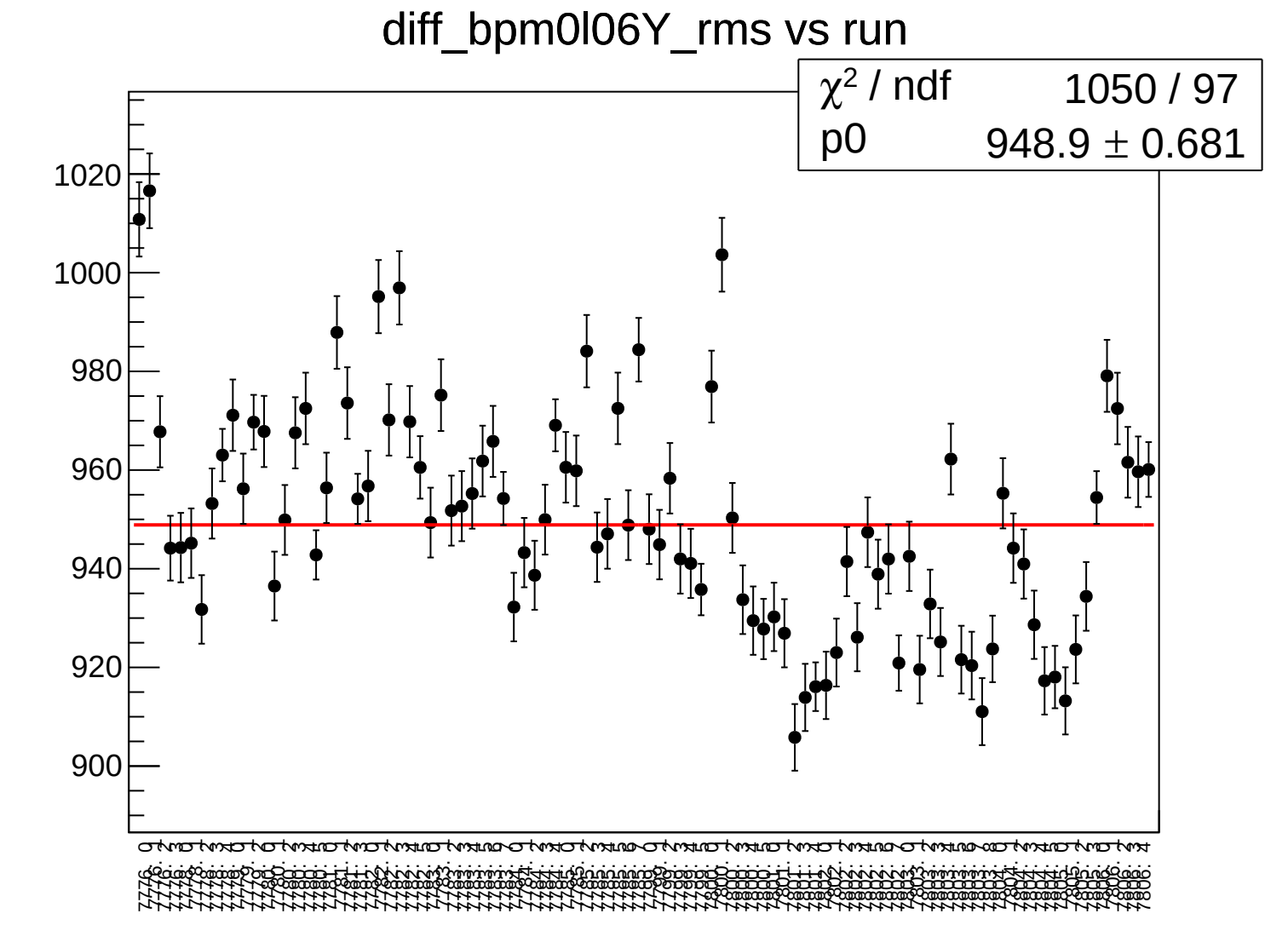

diff_bpm0l06X_mean vs run
χ² / ndf 80.82 / 97
p0 −45.11 ± 6.261
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean −659.3
Std Dev 0
2
1
0
−1
−2

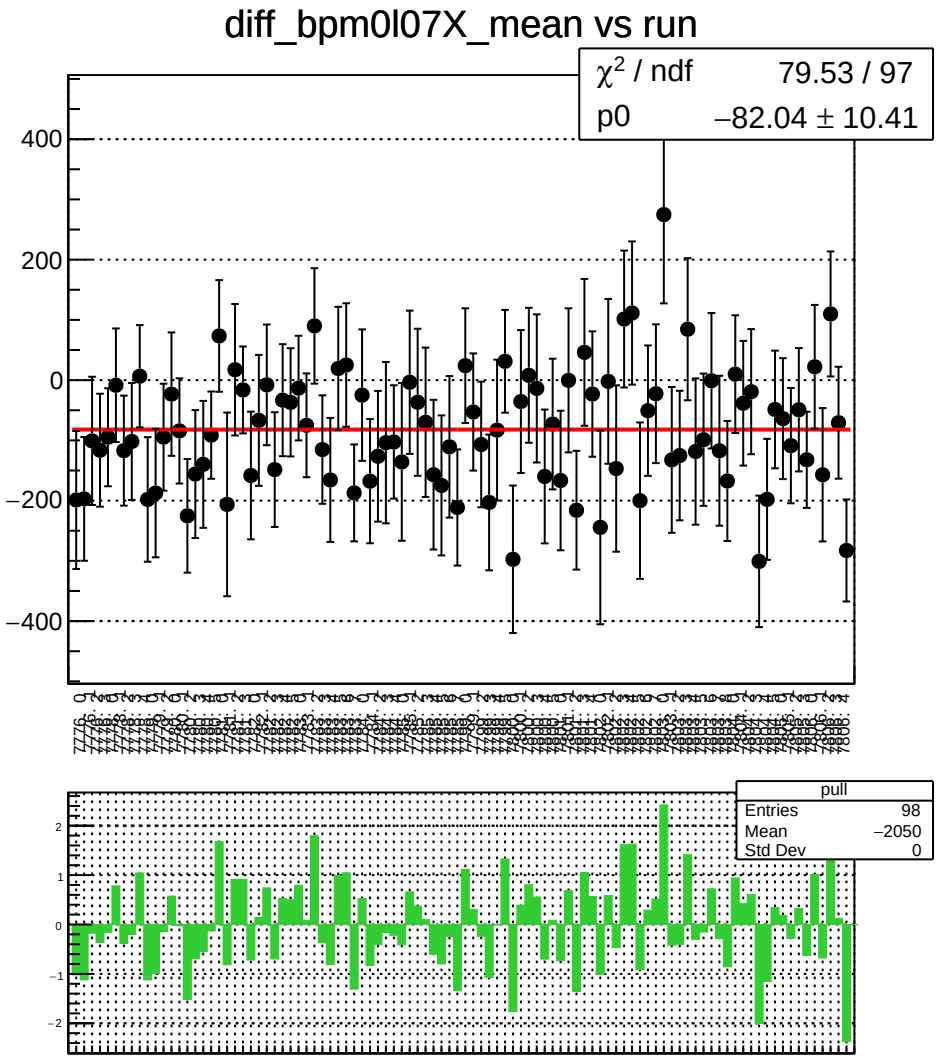

pull1D
Entries 98
Mean −0.002478
Std Dev 0.9081
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

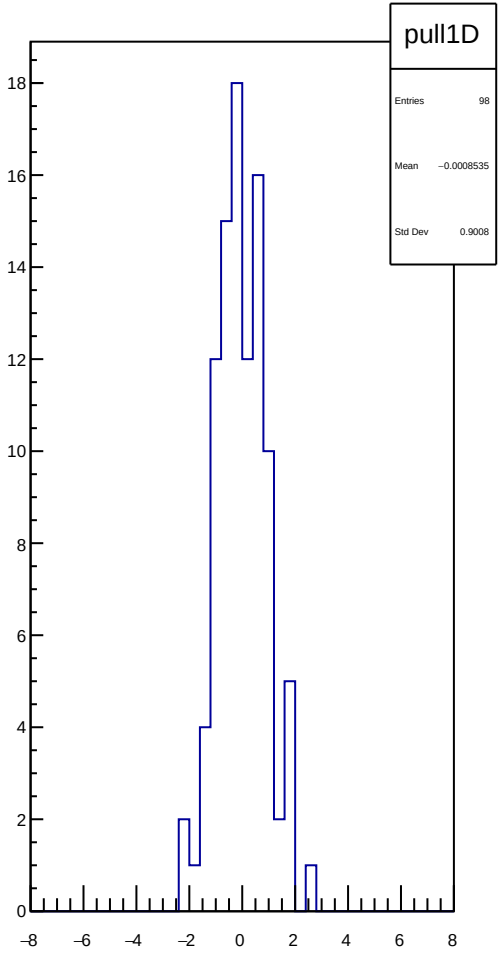

diff_bpm0l06X_rms vs run
χ² / ndf 3.067e+04 / 97
p0 6122 ± 4.427
9000
8000
7000
6000
5000

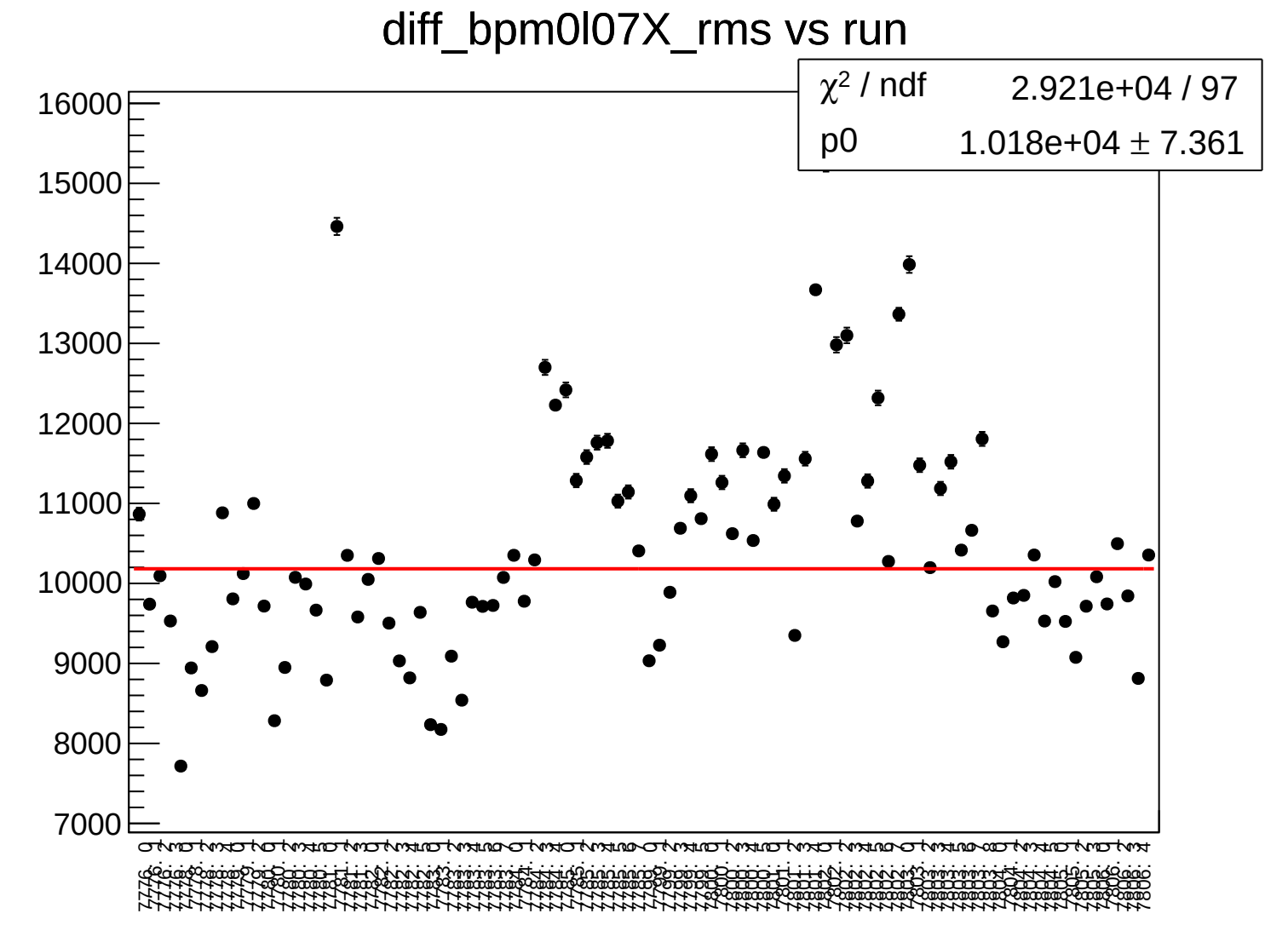

diff_bpm0l06Y_mean vs run
χ^2 / ndf 123.6 / 97
p0 8.122 ± 0.963
pull
Entries 98
Mean 263.6
Std Dev 0

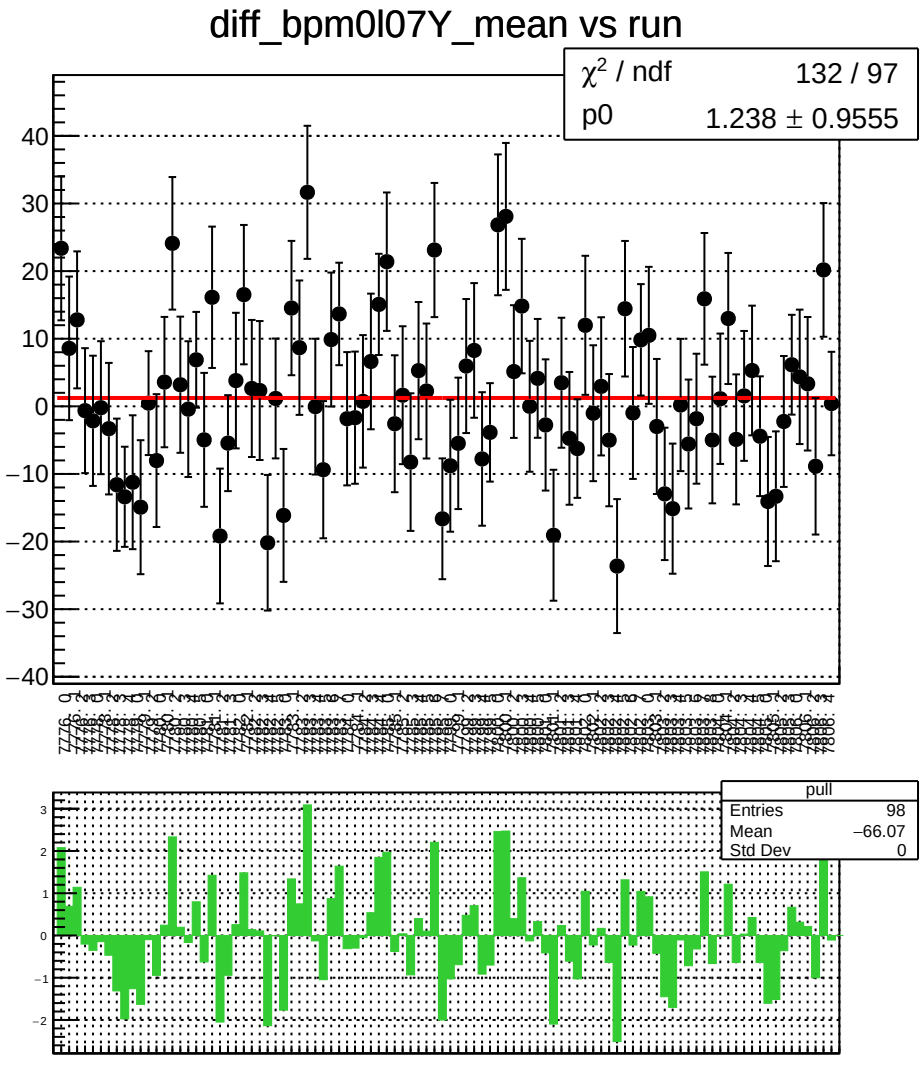

pull1D
Entries 98
Mean 0.01456
Std Dev 1.123

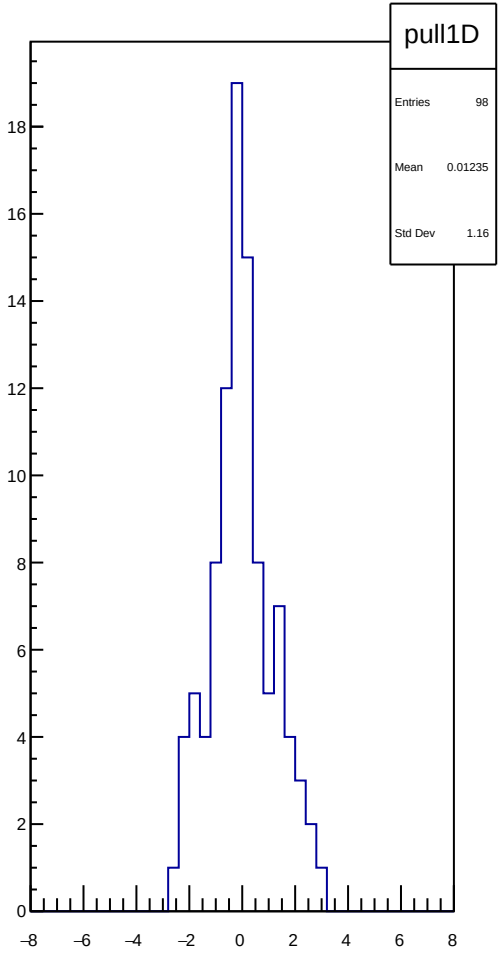

diff_bpm0l06Y_rms vs run
χ² / ndf 1050 / 97
p0 948.9 ± 0.681
1020
1000
980
960
940
920
900

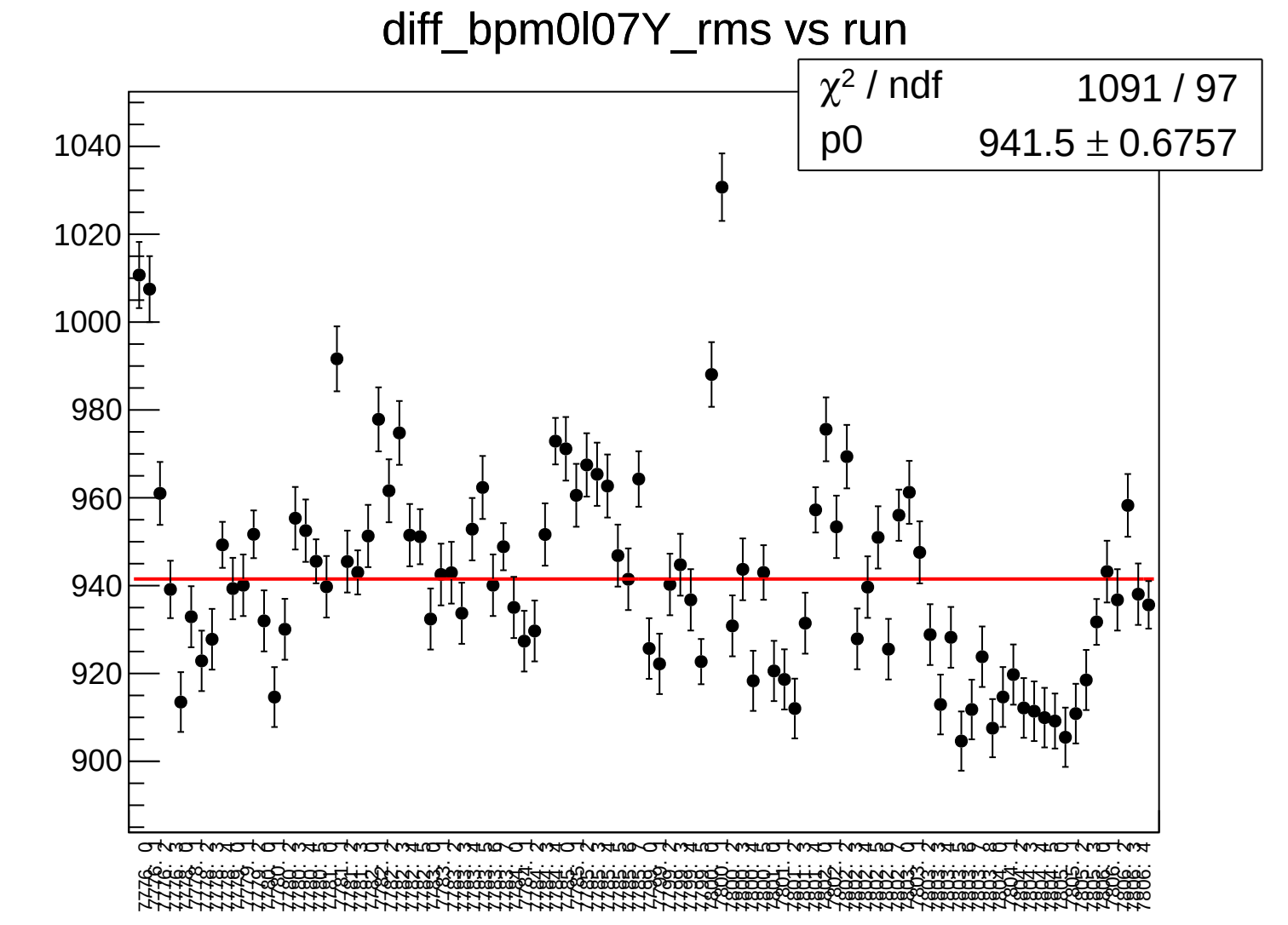

diff_bpm0l07X_mean vs run
χ² / ndf 79.53 / 97
p0 −82.04 ± 10.41
400
200
0
−200
−400
pull
Entries 98
Mean −2050
Std Dev 0
2
1
0
−1
−2

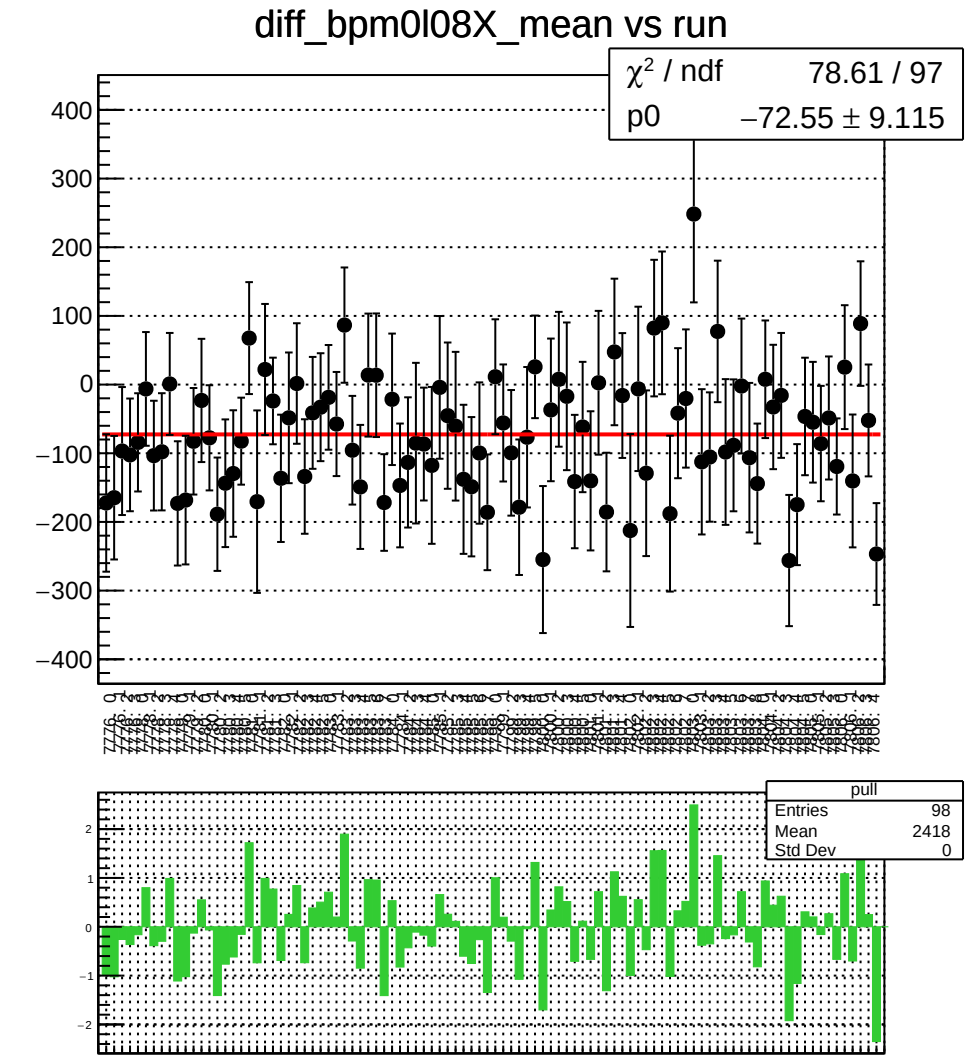

pull1D
Entries 98
Mean −0.0008535
Std Dev 0.9008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

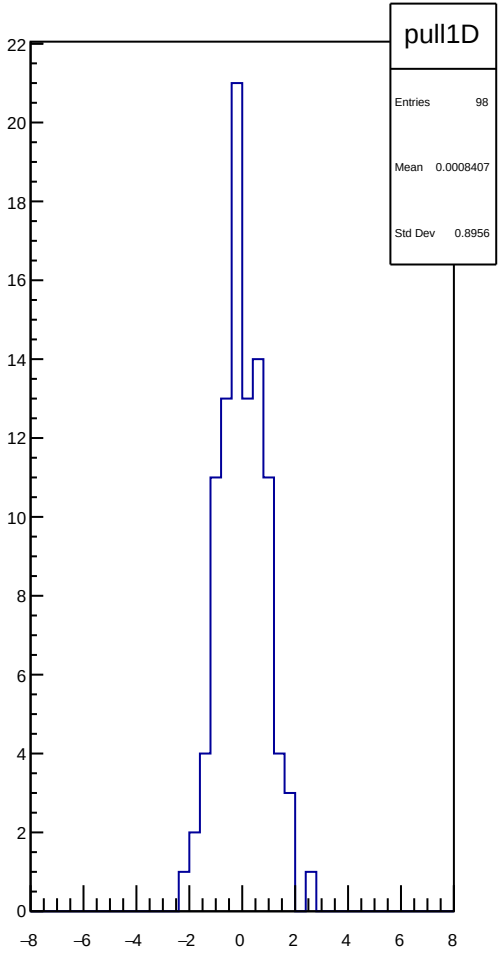

diff_bpm0l07X_rms vs run
χ² / ndf 2.921e+04 / 97
p0 1.018e+04 ± 7.361
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000

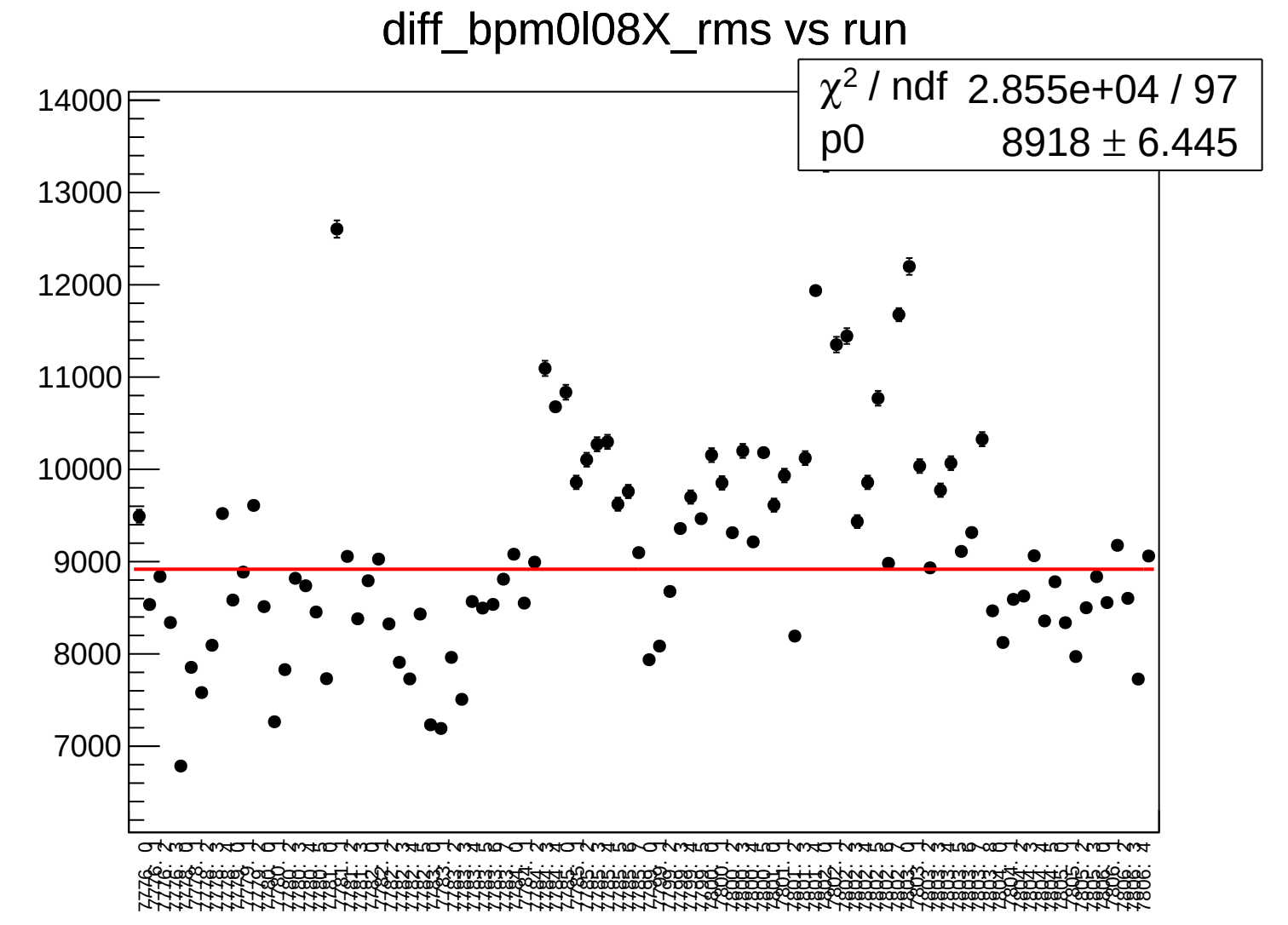

diff_bpm0l07Y_mean vs run
χ² / ndf 132 / 97
p0 1.238 ± 0.9555
pull
Entries 98
Mean −66.07
Std Dev 0

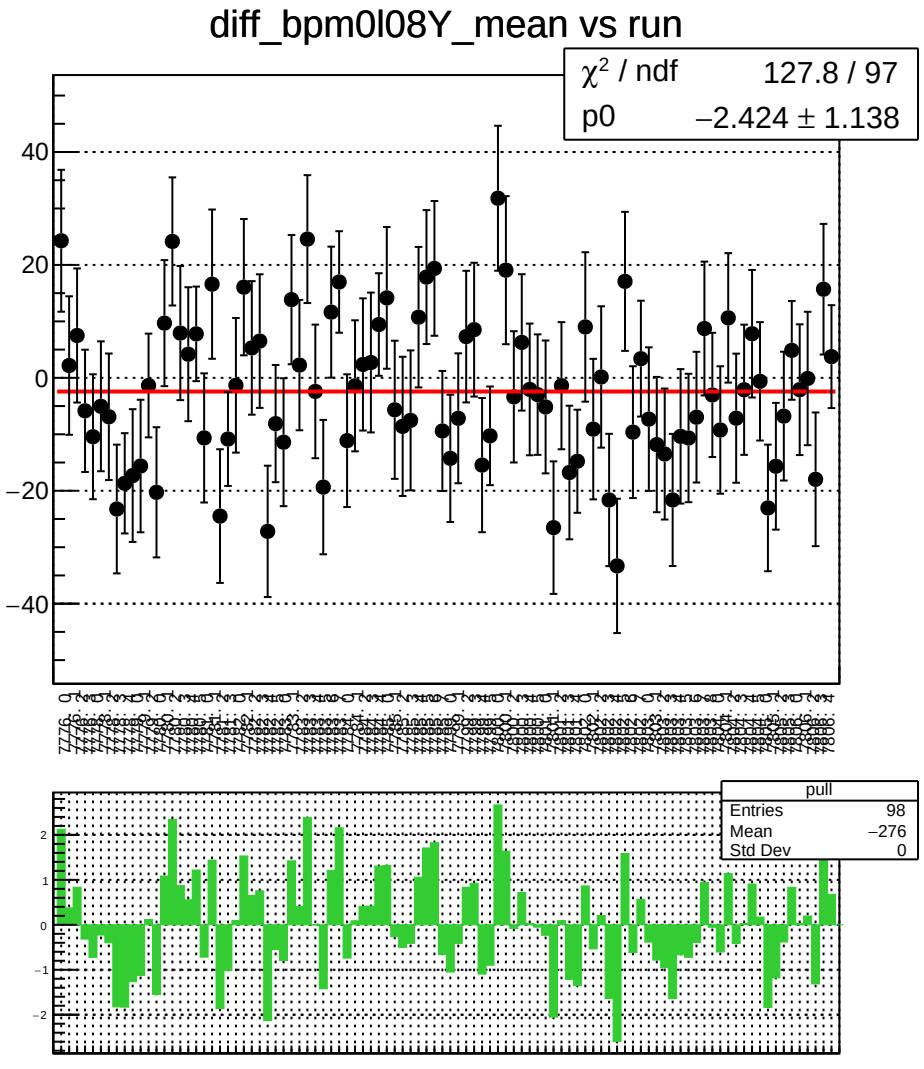

pull1D
Entries 98
Mean 0.01235
Std Dev 1.16

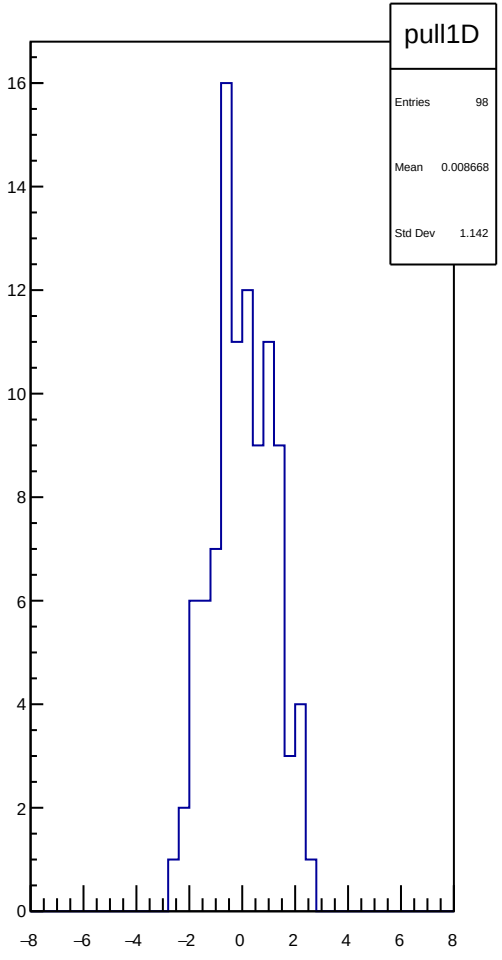

diff_bpm0l07Y_rms vs run
χ² / ndf 1091 / 97
p0 941.5 ± 0.6757
1040
1020
1000
980
960
940
920
900

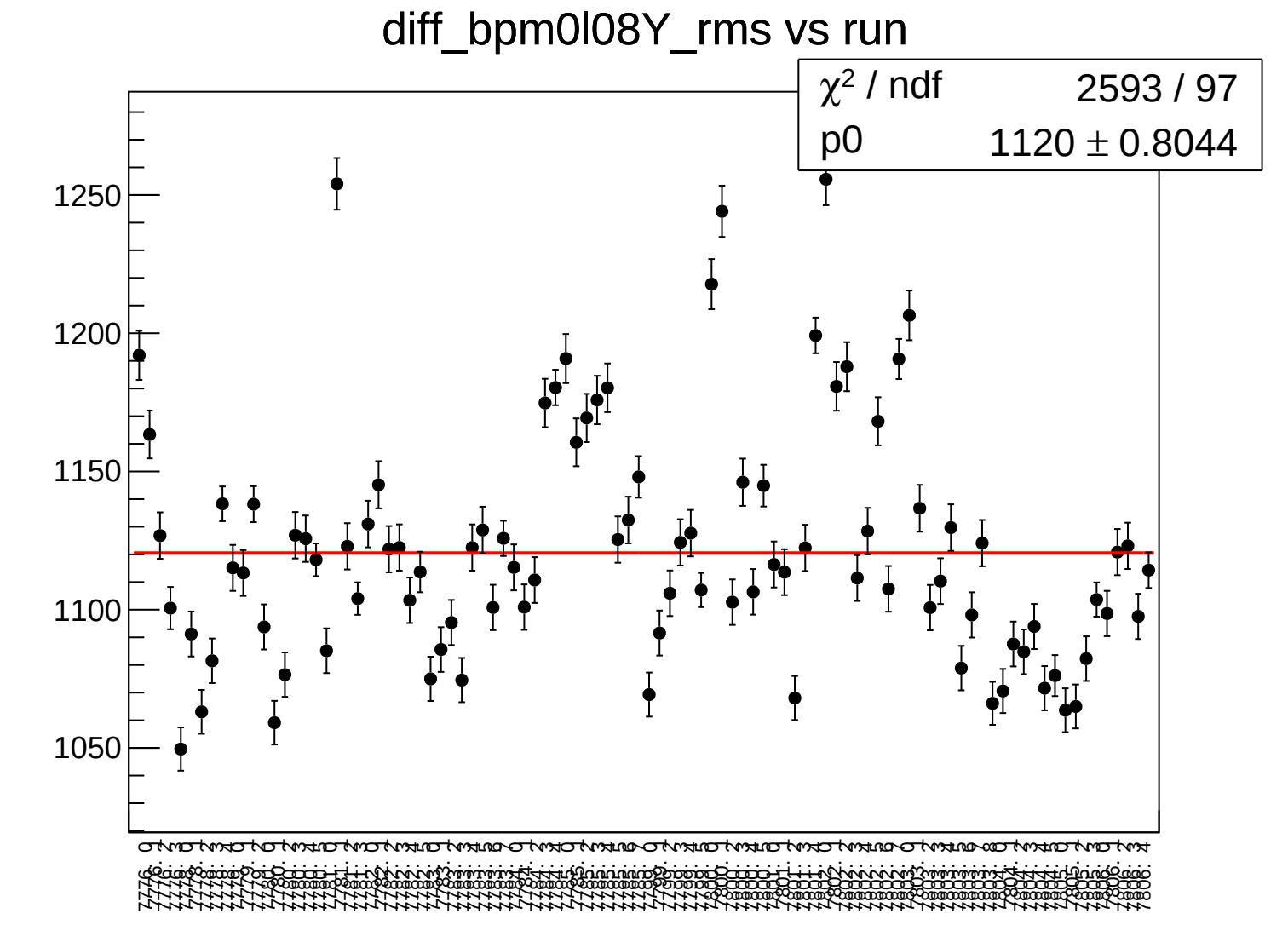

diff_bpm0l08X_mean vs run
χ² / ndf 78.61 / 97
p0 −72.55 ± 9.115
pull
Entries 98
Mean 2418
Std Dev 0

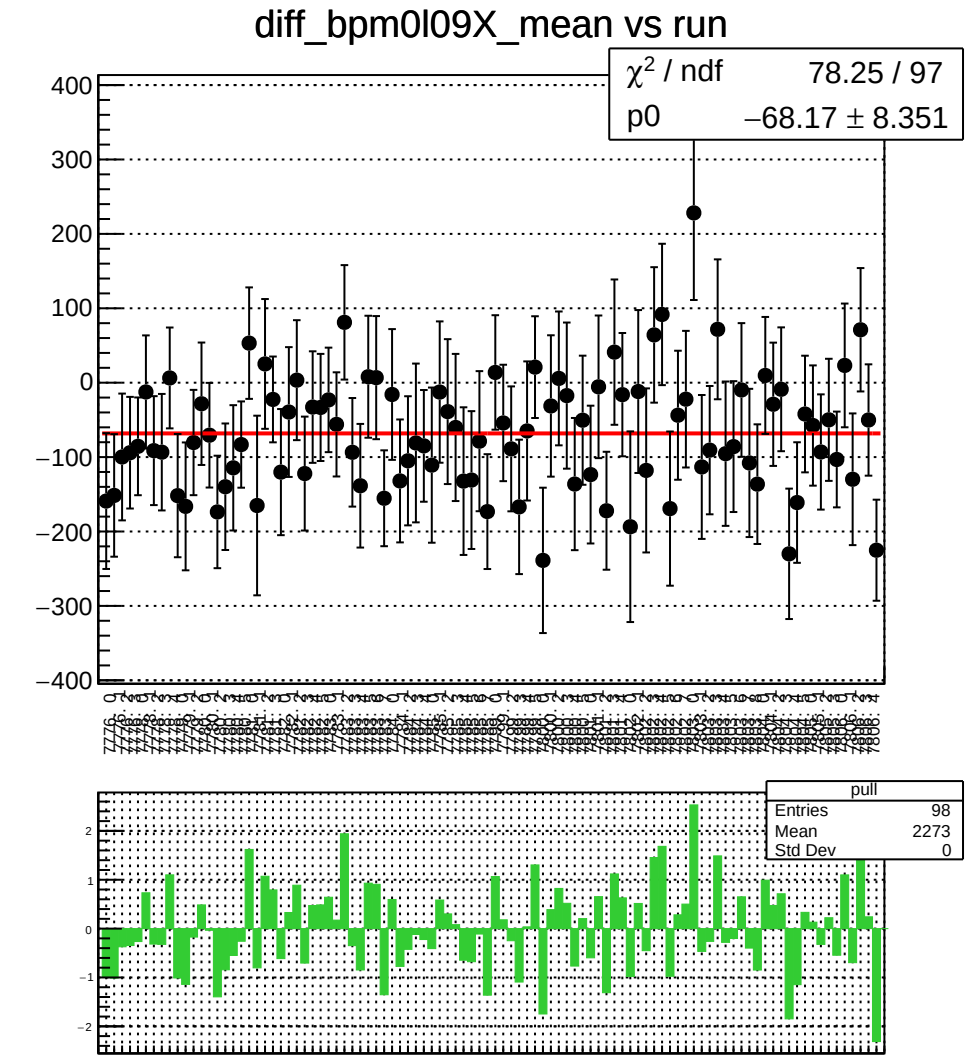

pull1D
Entries 98
Mean 0.0008407
Std Dev 0.8956

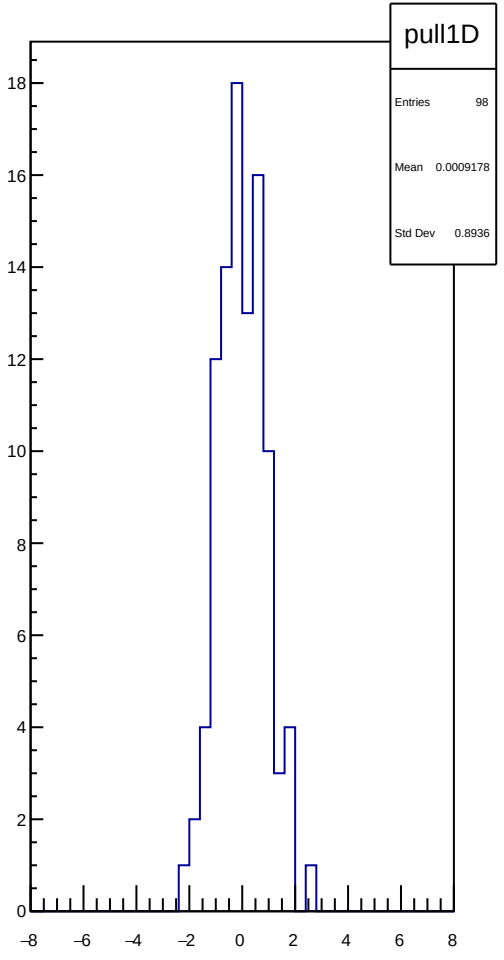

diff_bpm0l08X_rms vs run
χ² / ndf 2.855e+04 / 97
p0 8918 ± 6.445
14000
13000
12000
11000
10000
9000
8000
7000

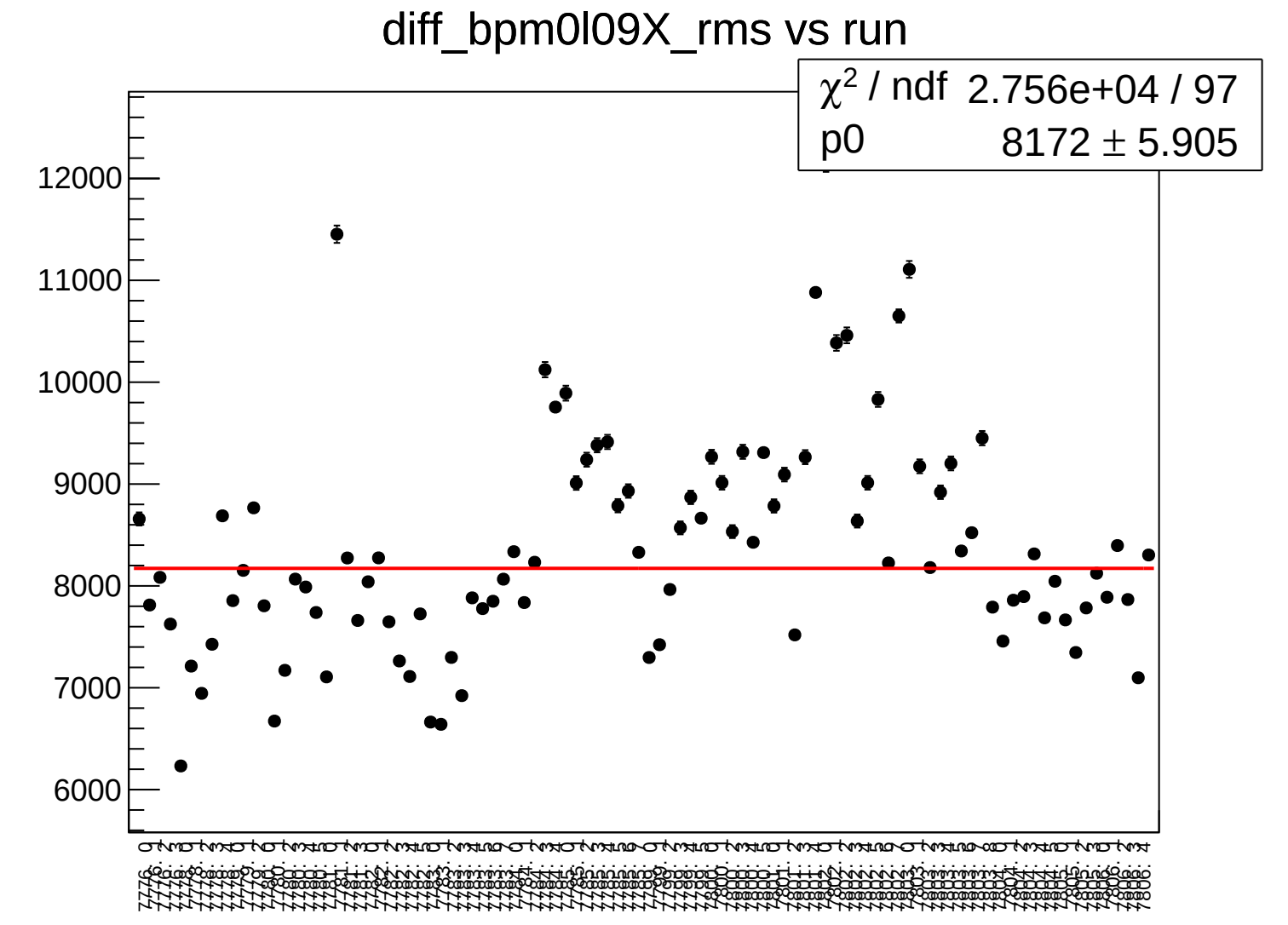

diff_bpm0l08Y_mean vs run
χ² / ndf 127.8 / 97
p0 −2.424 ± 1.138
40
20
0
−20
−40
pull
Entries 98
Mean −276
Std Dev 0
2
1
0
−1
−2

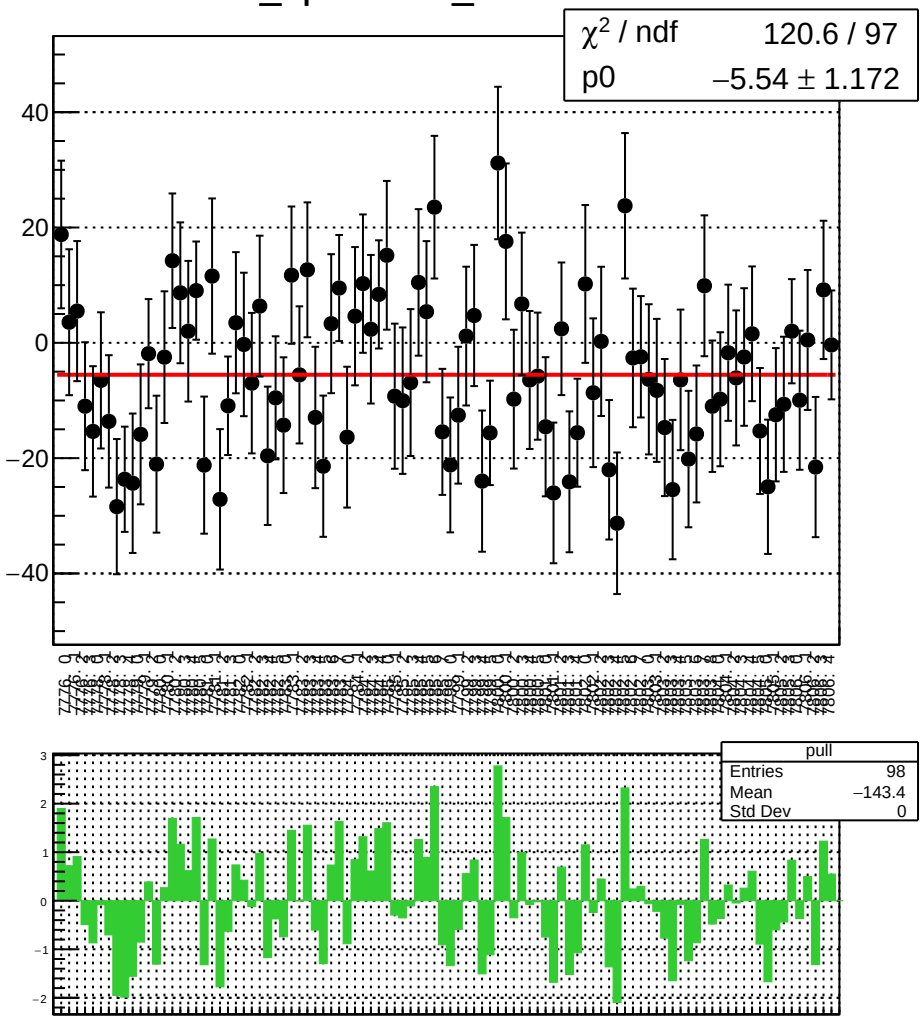

pull1D
Entries 98
Mean 0.008668
Std Dev 1.142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

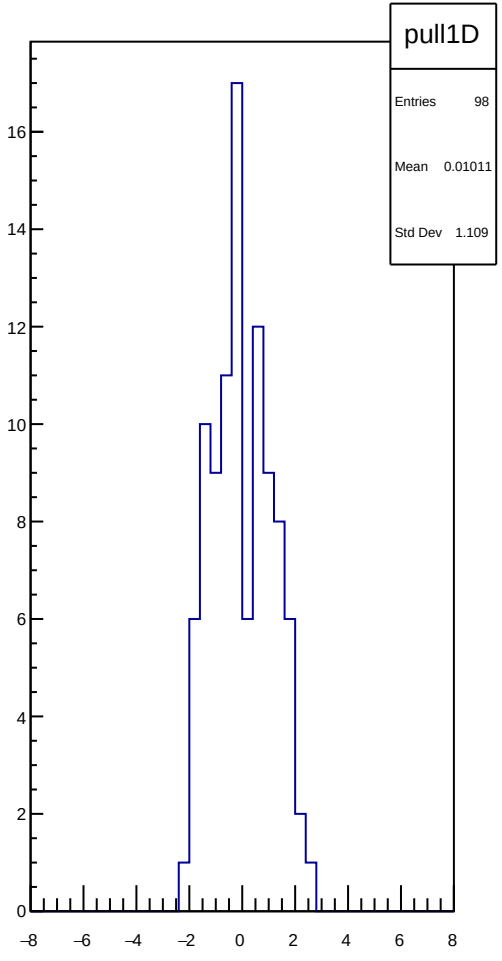

diff_bpm0l08Y_rms vs run
χ² / ndf 2593 / 97
p0 1120 ± 0.8044
1250
1200
1150
1100
1050

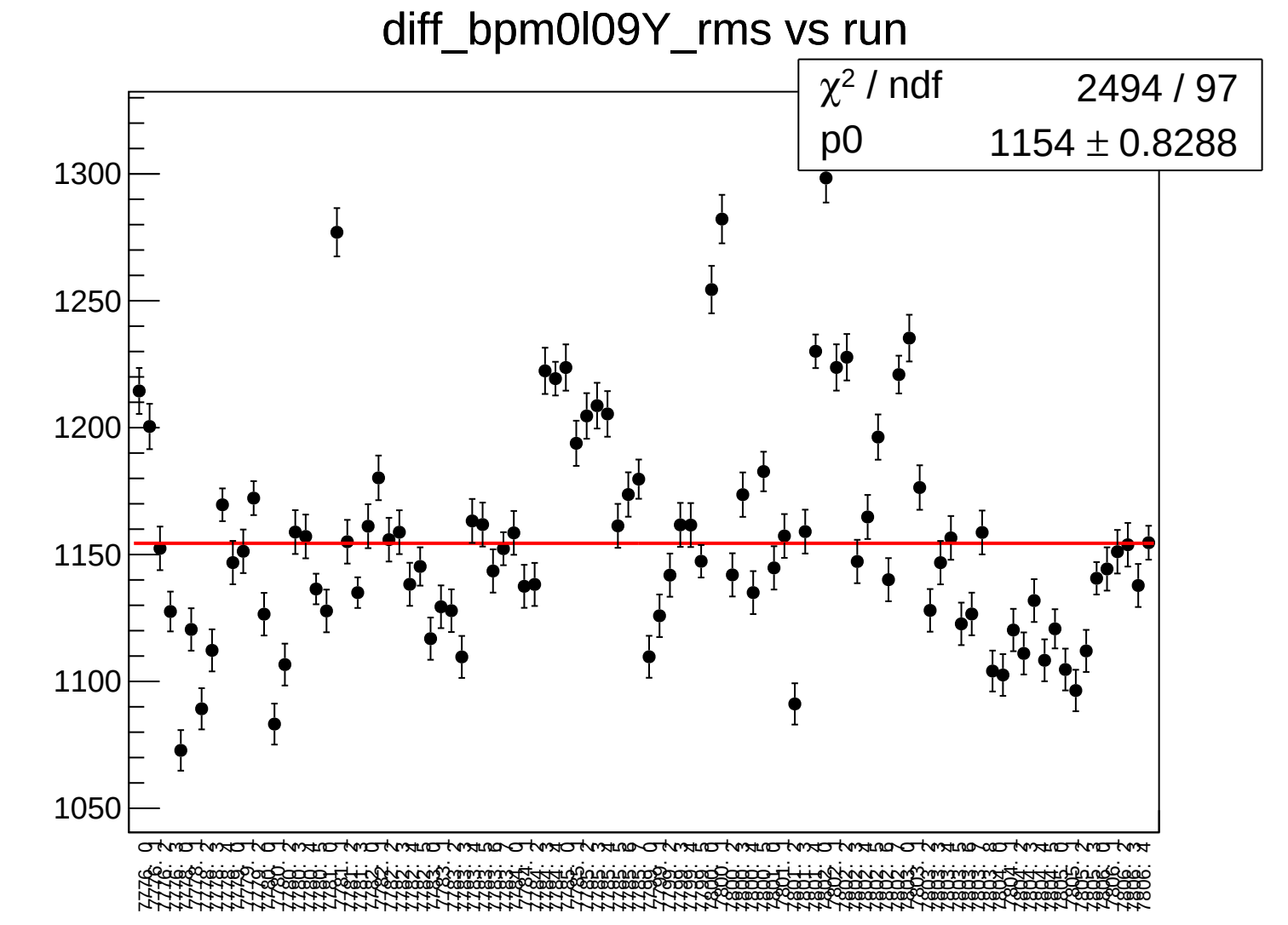

diff_bpm0l09X_mean vs run
χ² / ndf 78.25 / 97
p0 −68.17 ± 8.351
pull
Entries 98
Mean 2273
Std Dev 0

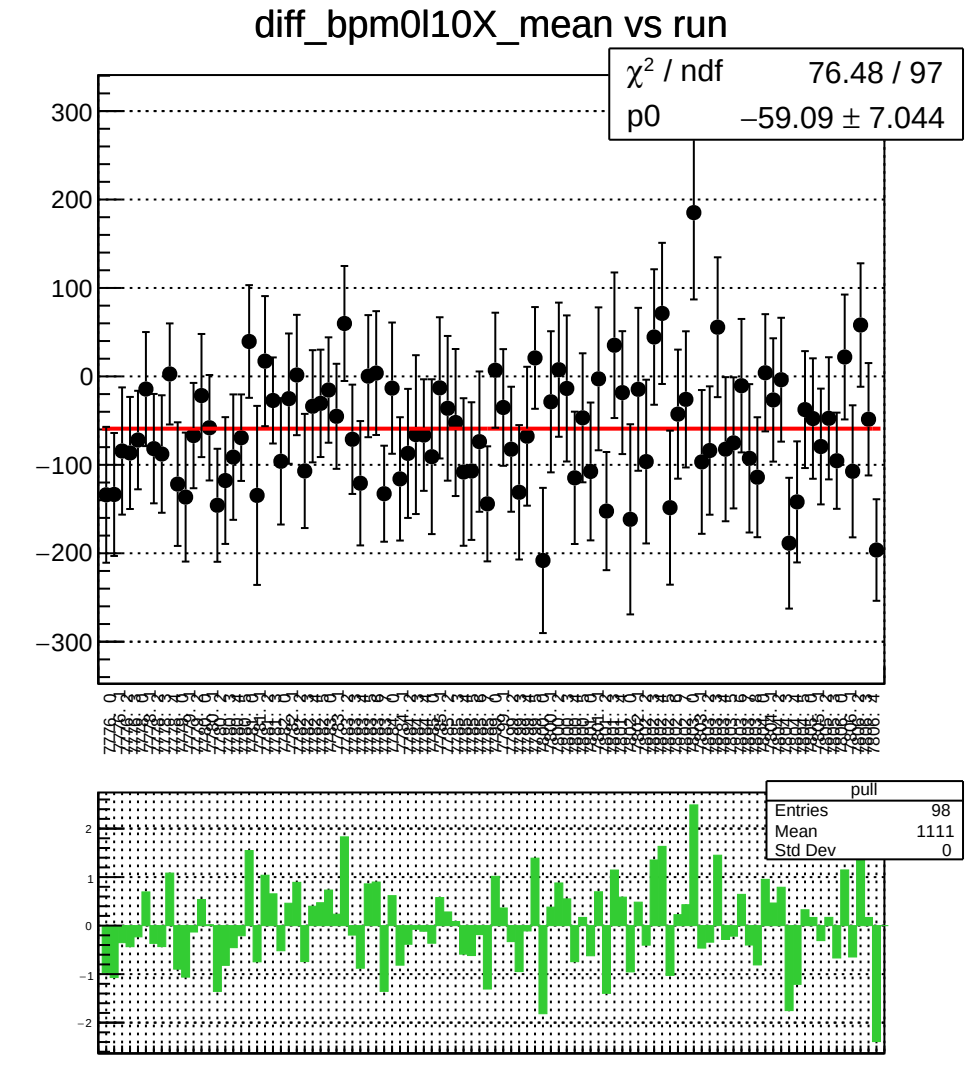

pull1D
Entries 98
Mean 0.0009178
Std Dev 0.8936

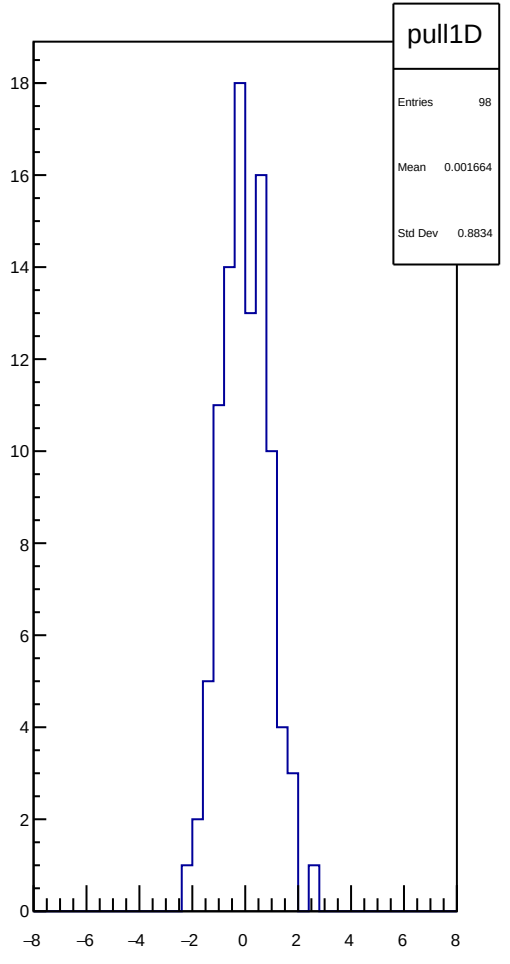

diff_bpm0l09X_rms vs run
χ² / ndf 2.756e+04 / 97
p0 8172 ± 5.905
12000
11000
10000
9000
8000
7000
6000

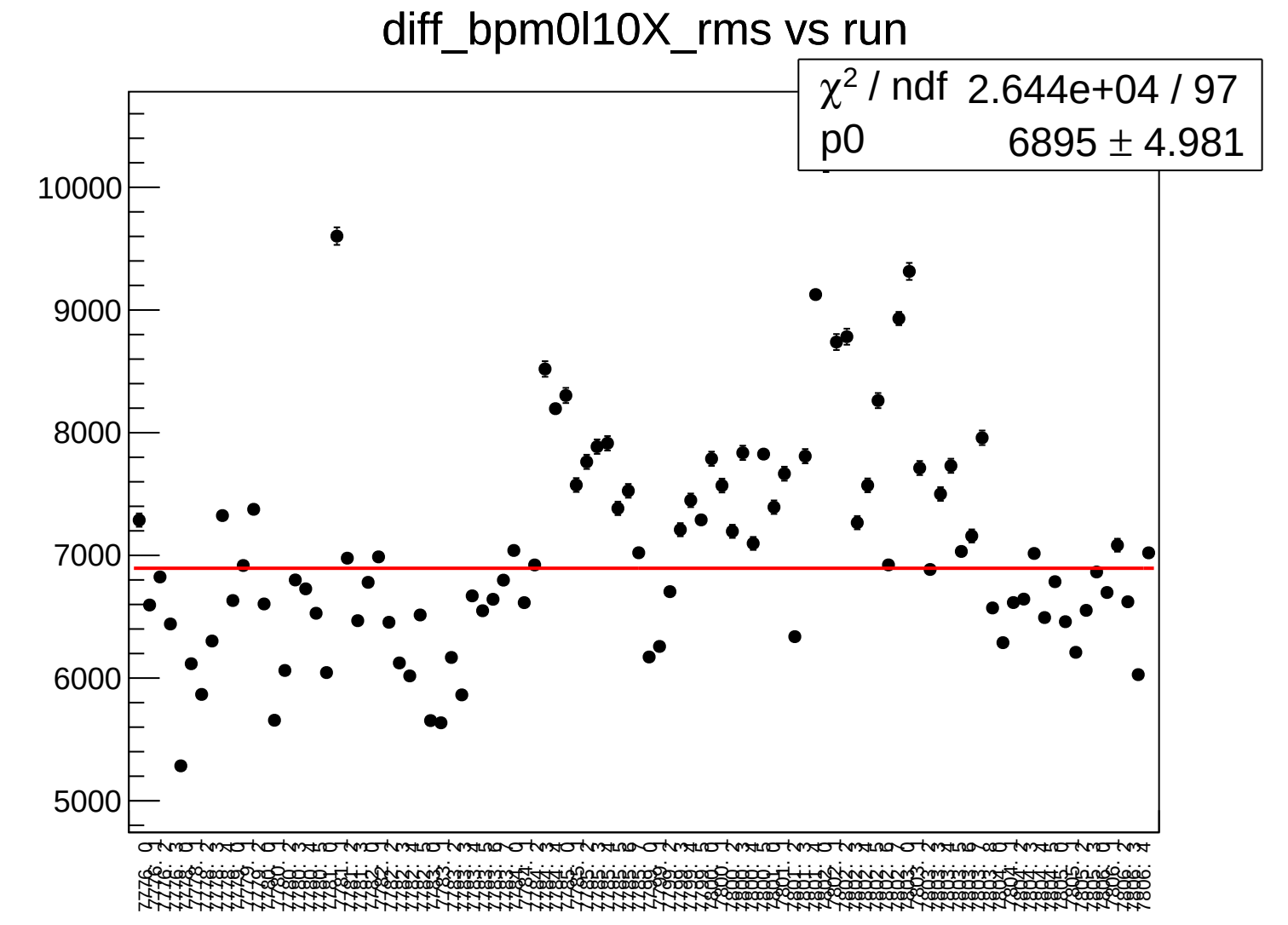

diff_bpm0l09Y_mean vs run
χ² / ndf 120.6 / 97
p0 −5.54 ± 1.172
pull
Entries 98
Mean −143.4
Std Dev 0

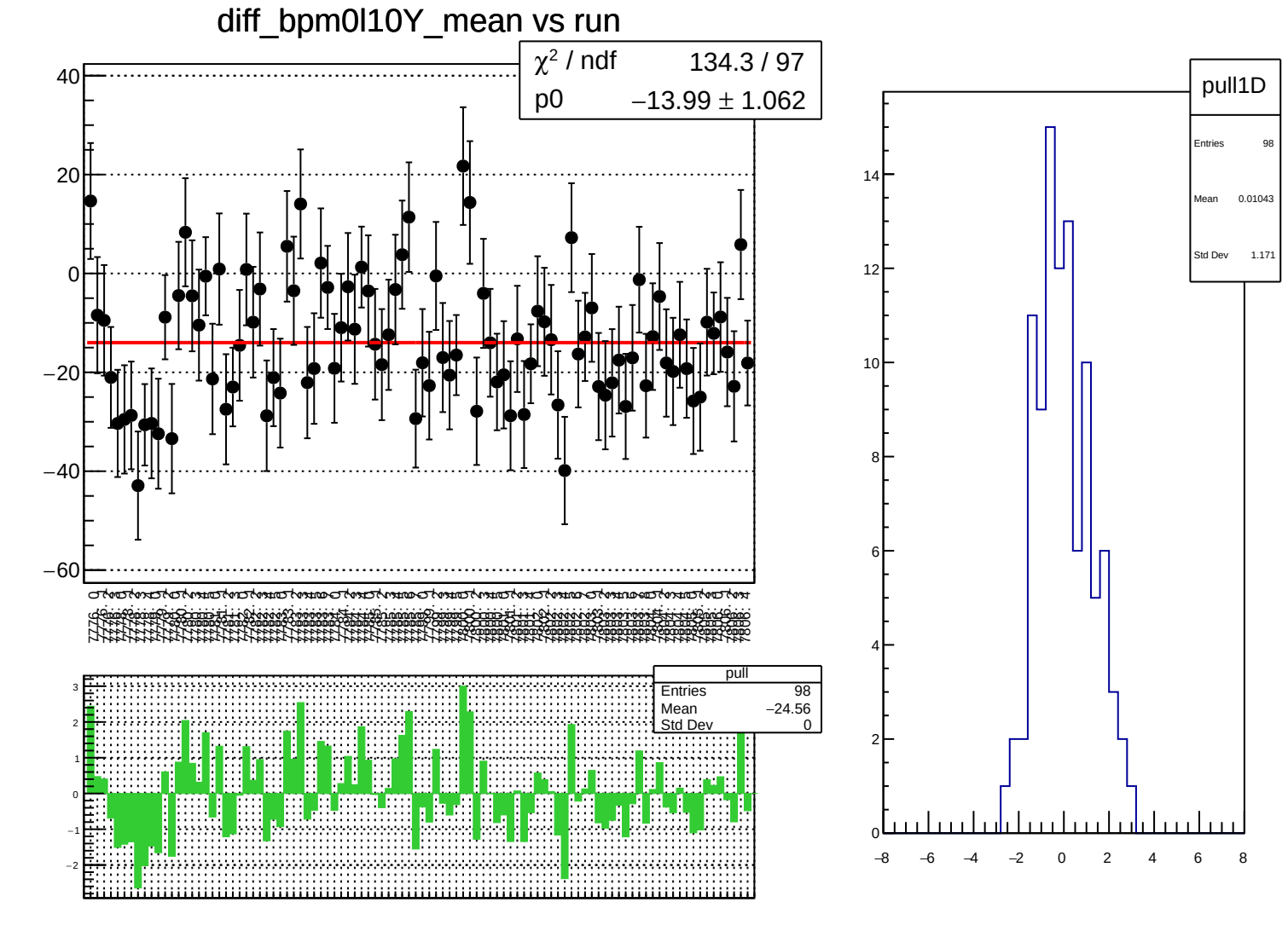

pull1D
Entries 98
Mean 0.01011
Std Dev 1.109

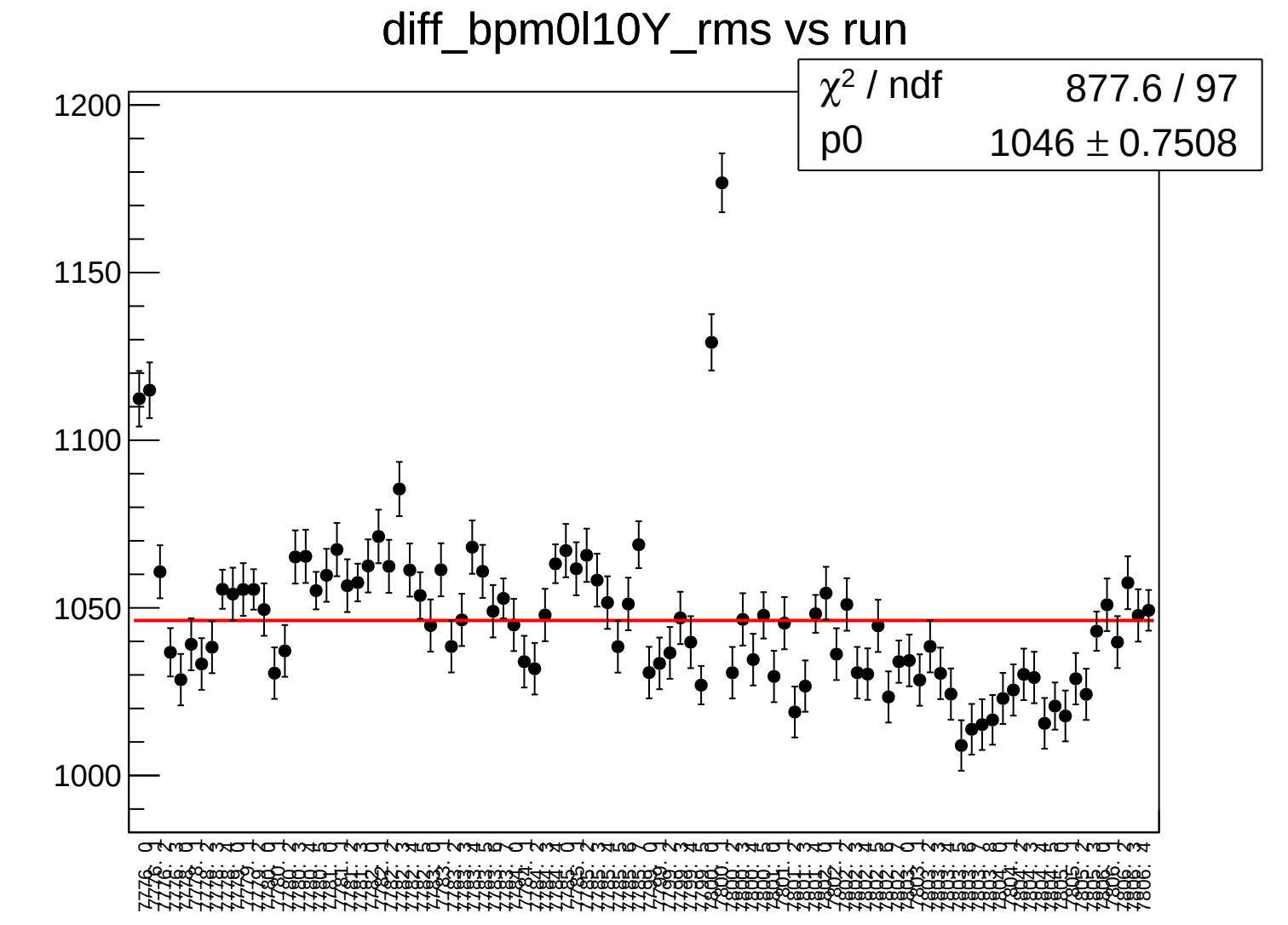

diff_bpm0l09Y_rms vs run
χ² / ndf 2494 / 97
p0 1154 ± 0.8288
1300
1250
1200
1150
1100
1050

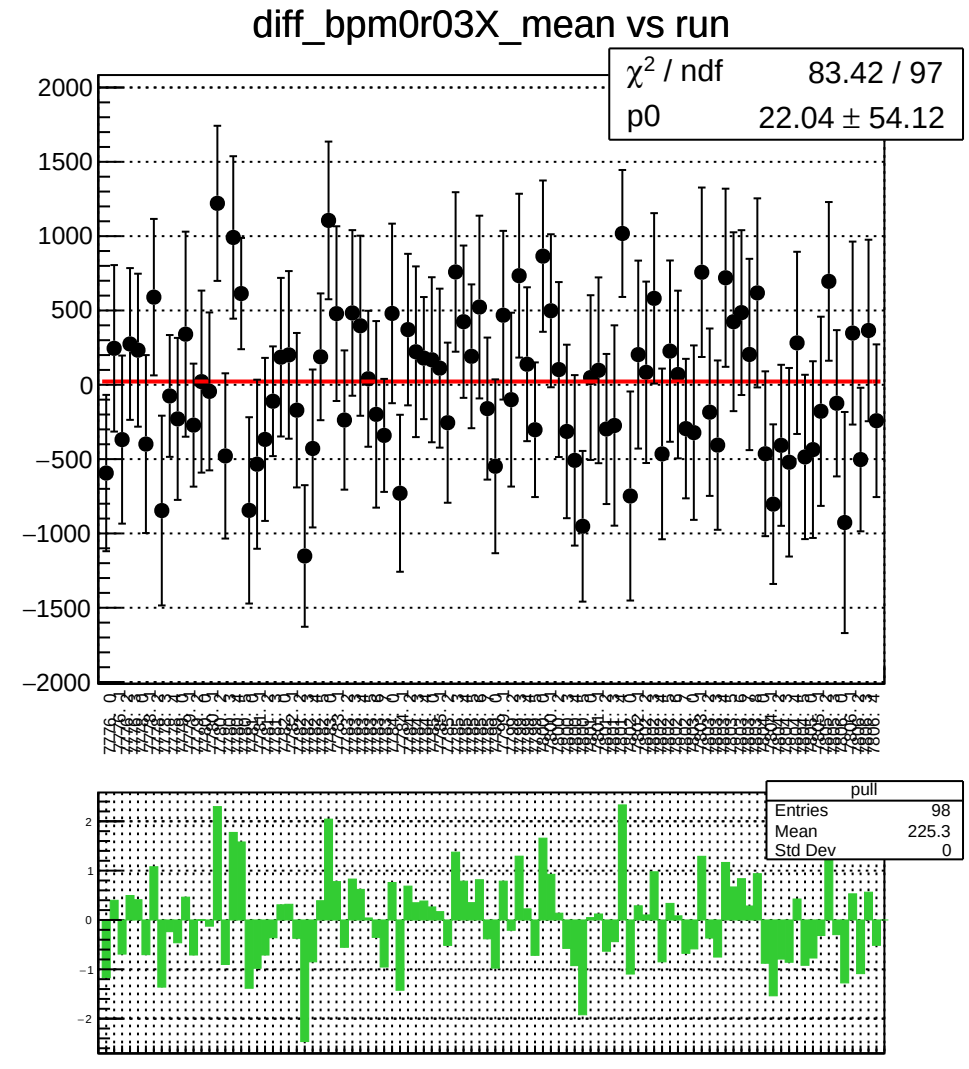

diff_bpm0l10X_mean vs run
χ² / ndf 76.48 / 97
p0 −59.09 ± 7.044
300
200
100
0
−100
−200
−300
pull
Entries 98
Mean 1111
Std Dev 0
2
1
0
−1
−2

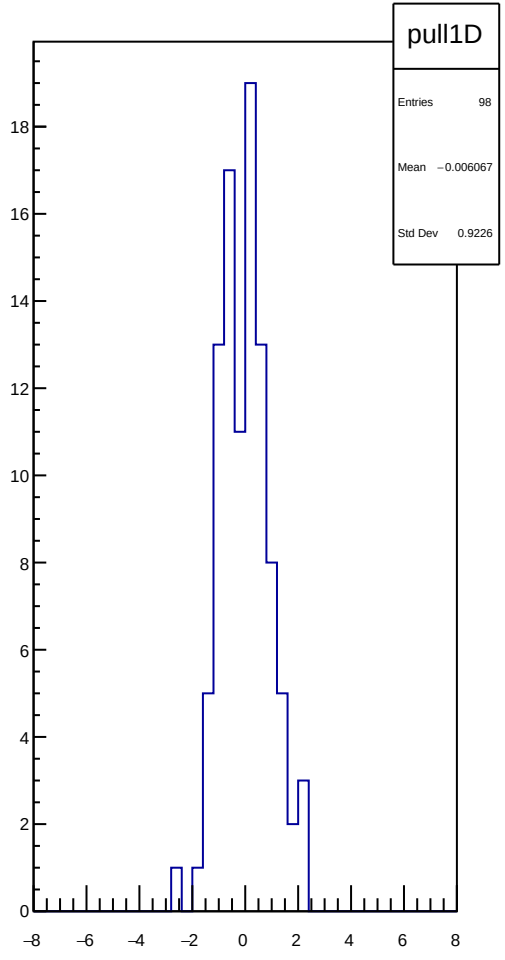

pull1D
Entries 98
Mean 0.001664
Std Dev 0.8834
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

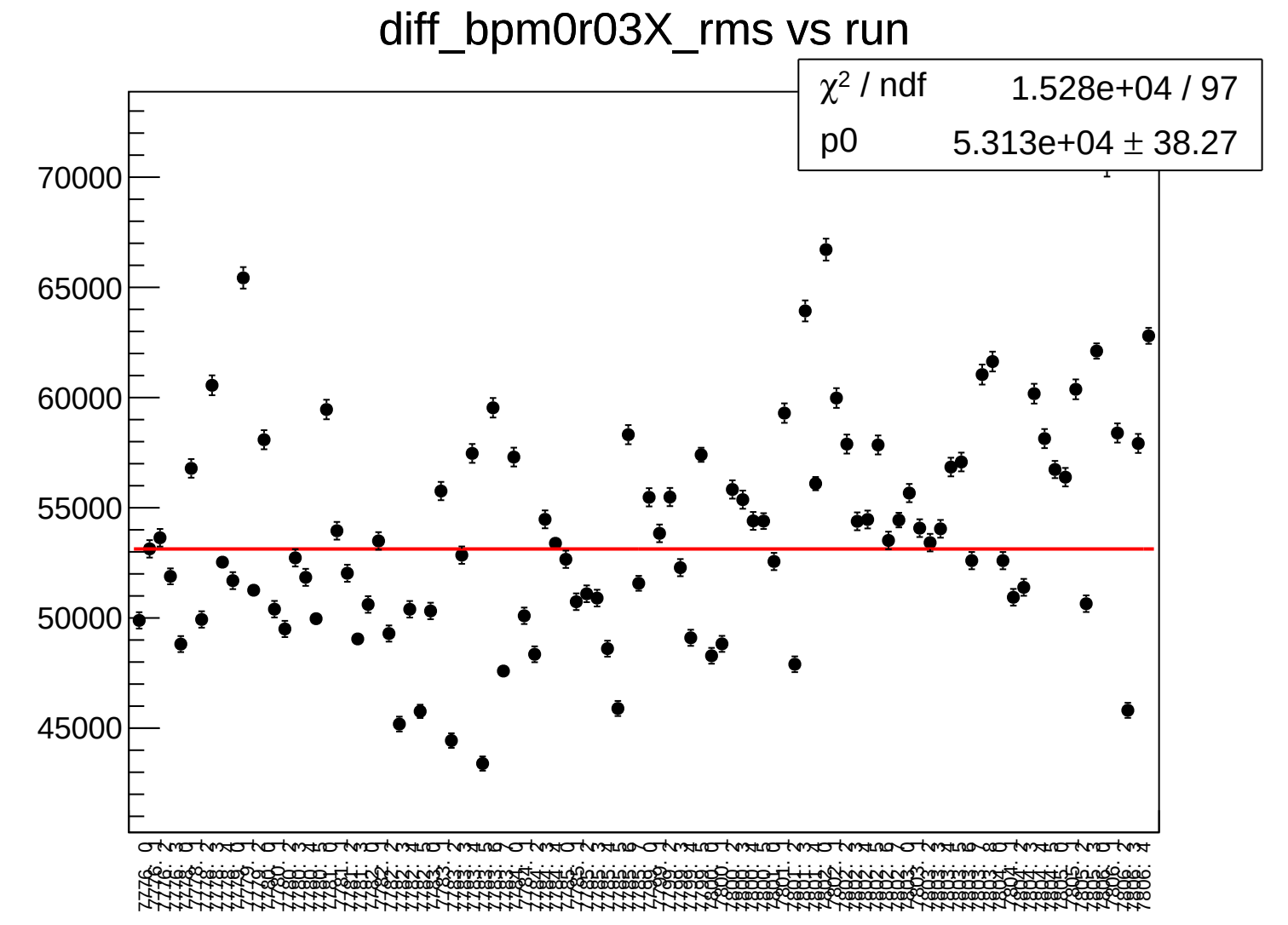

diff_bpm0l10X_rms vs run
χ² / ndf 2.644e+04 / 97
p0 6895 ± 4.981
10000
9000
8000
7000
6000
5000

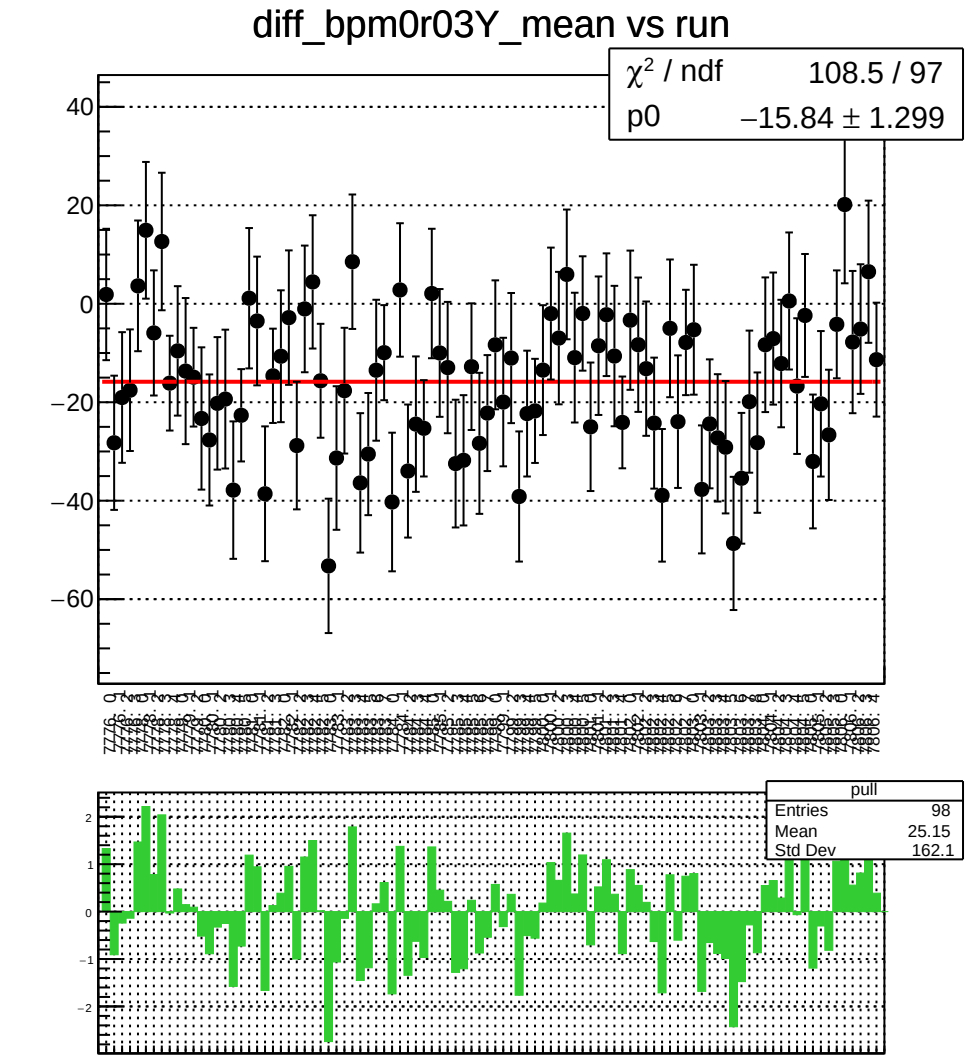

diff_bpm0l10Y_mean vs run
χ² / ndf 134.3 / 97
p0 −13.99 ± 1.062
pull
Entries 98
Mean −24.56
Std Dev 0
pull1D
Entries 98
Mean 0.01043
Std Dev 1.171

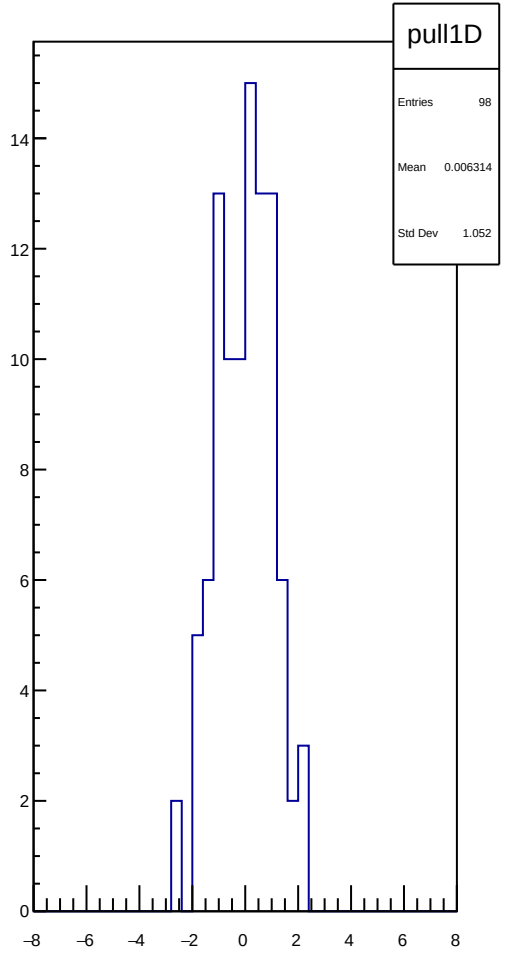

diff_bpm0l10Y_rms vs run
χ² / ndf 877.6 / 97
p0 1046 ± 0.7508
1200
1150
1100
1050
1000

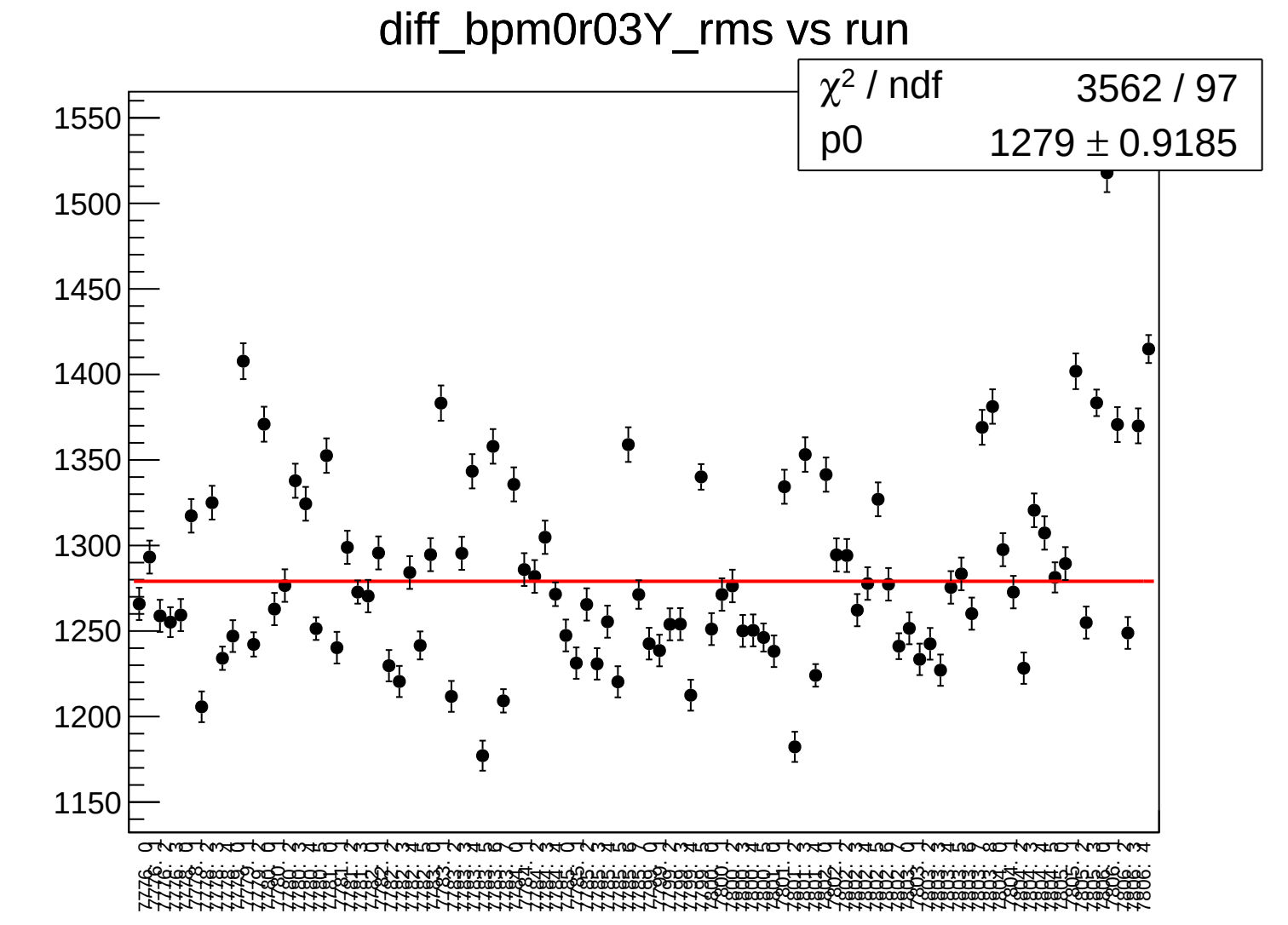

diff_bpm0r03X_mean vs run
χ^2 / ndf 83.42 / 97
p0 22.04 ± 54.12
pull
Entries 98
Mean 225.3
Std Dev 0

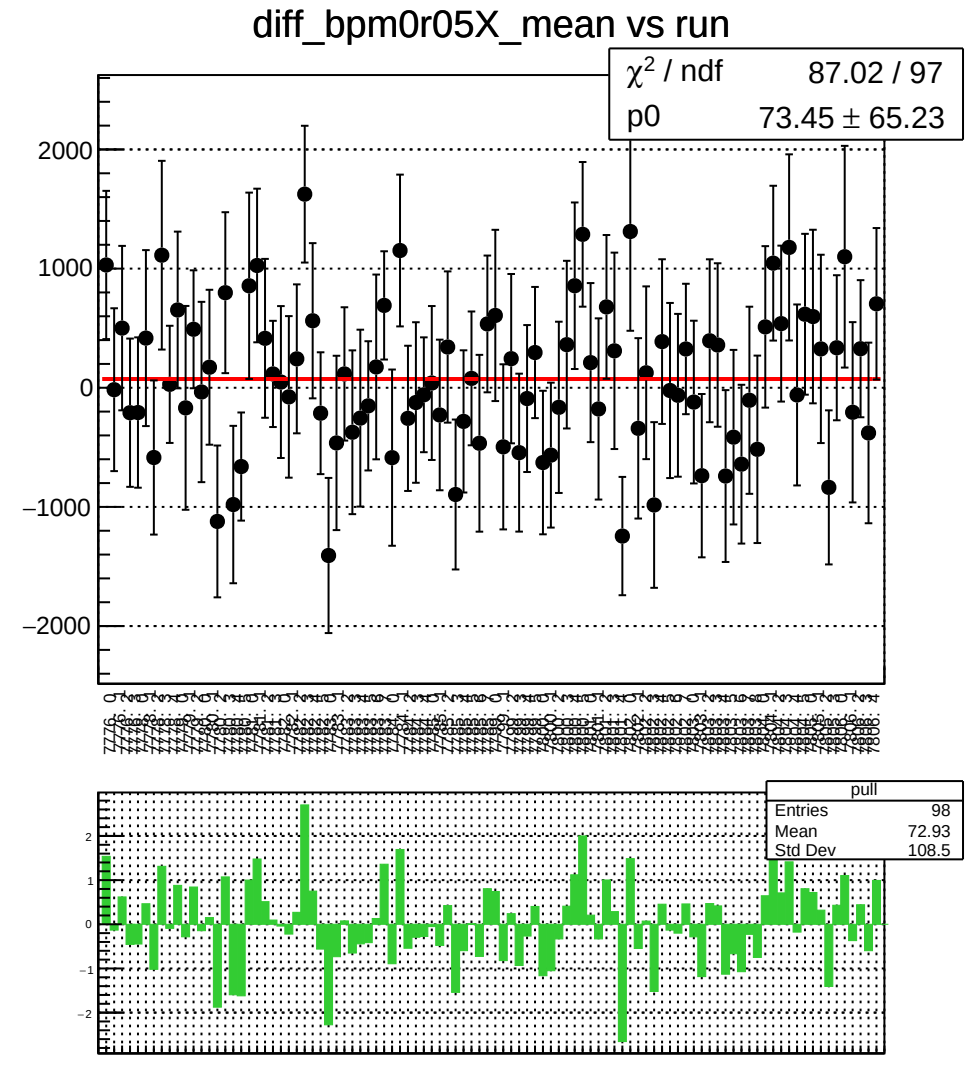

pull1D
Entries 98
Mean −0.006067
Std Dev 0.9226

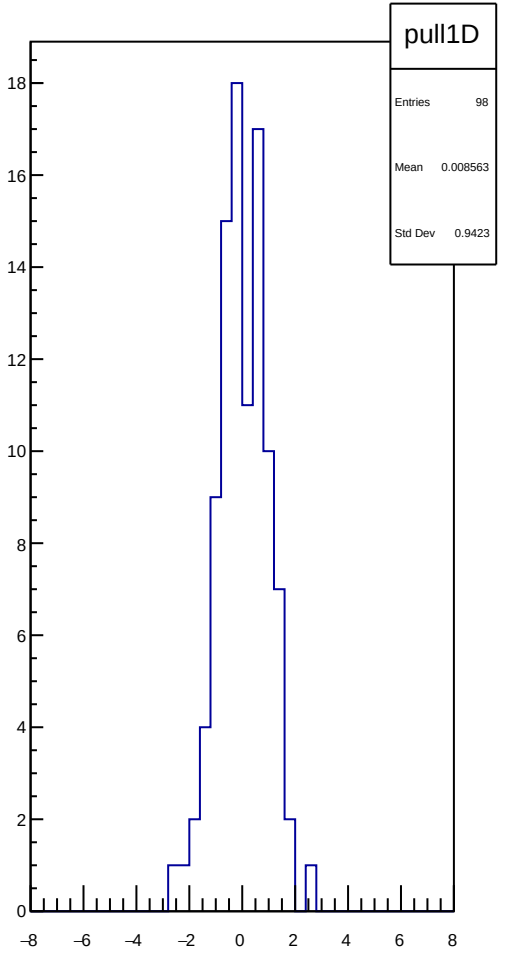

diff_bpm0r03X_rms vs run
χ^2 / ndf 1.528e+04 / 97
p0 5.313e+04 ± 38.27
70000
65000
60000
55000
50000
45000

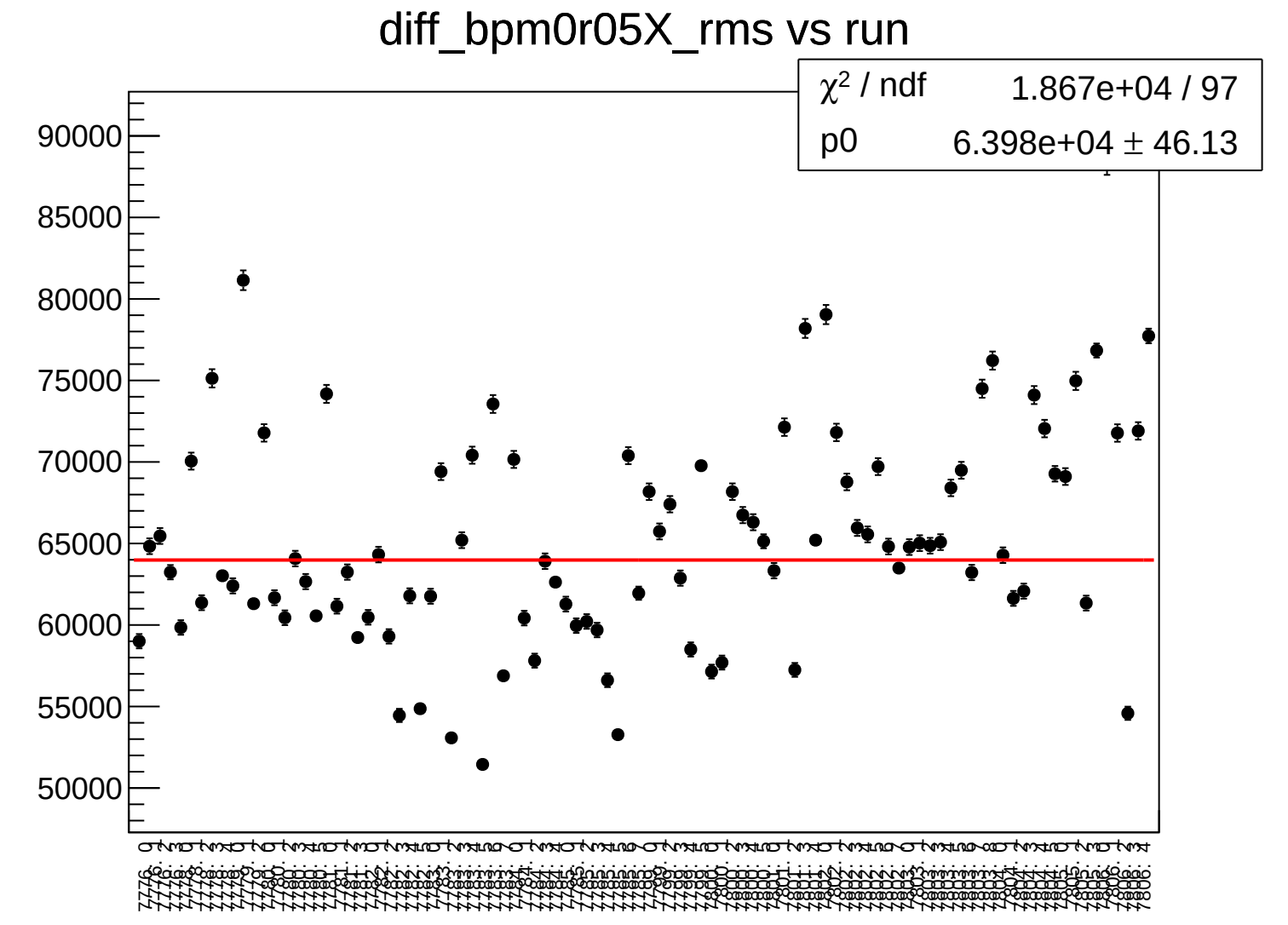

diff_bpm0r03Y_mean vs run
χ² / ndf 108.5 / 97
p0 −15.84 ± 1.299
pull
Entries 98
Mean 25.15
Std Dev 162.1

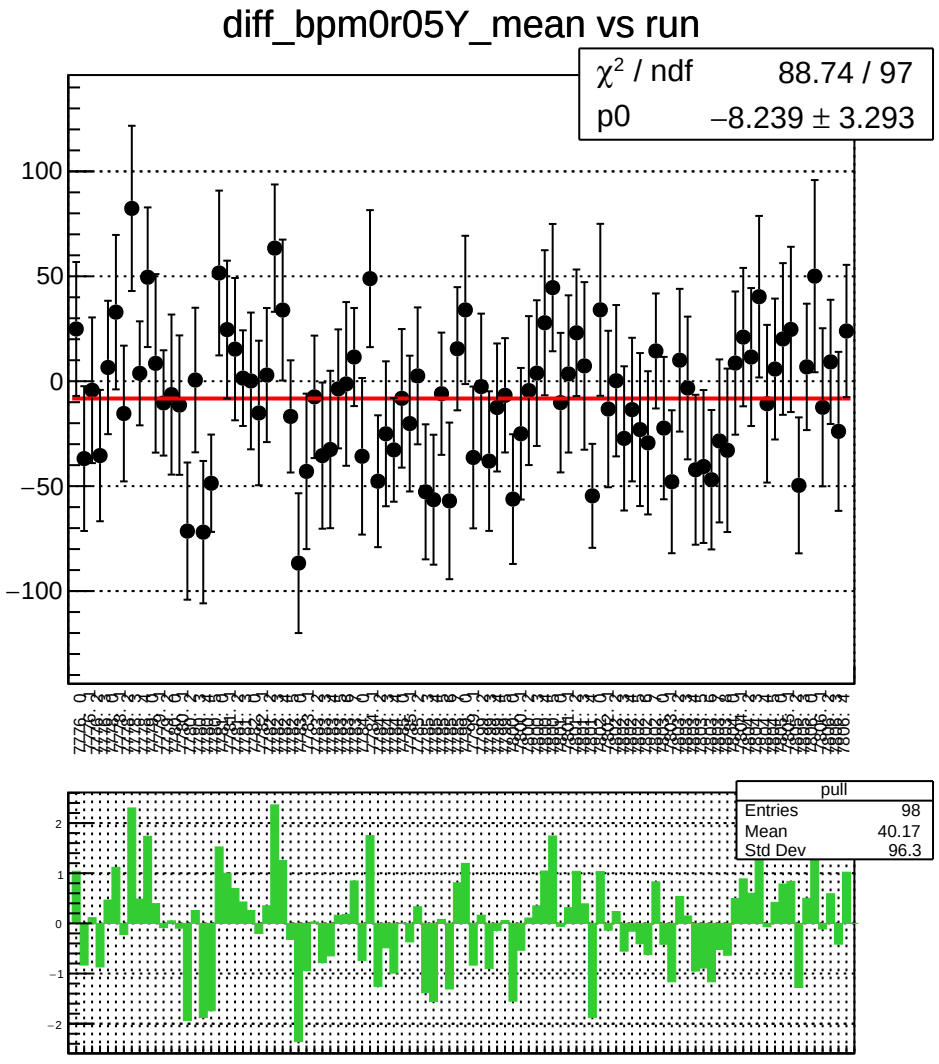

pull1D
Entries 98
Mean 0.006314
Std Dev 1.052

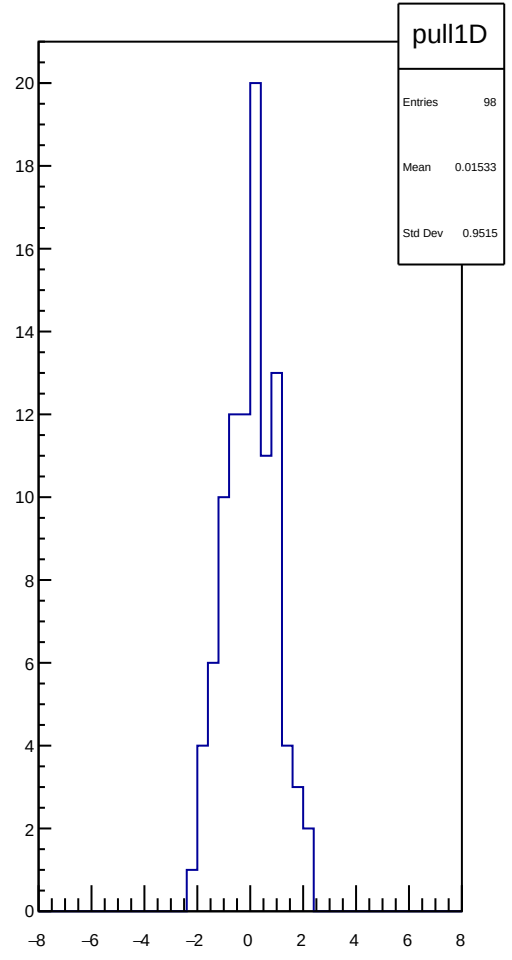

diff_bpm0r03Y_rms vs run
χ² / ndf 3562 / 97
p0 1279 ± 0.9185
1550
1500
1450
1400
1350
1300
1250
1200
1150

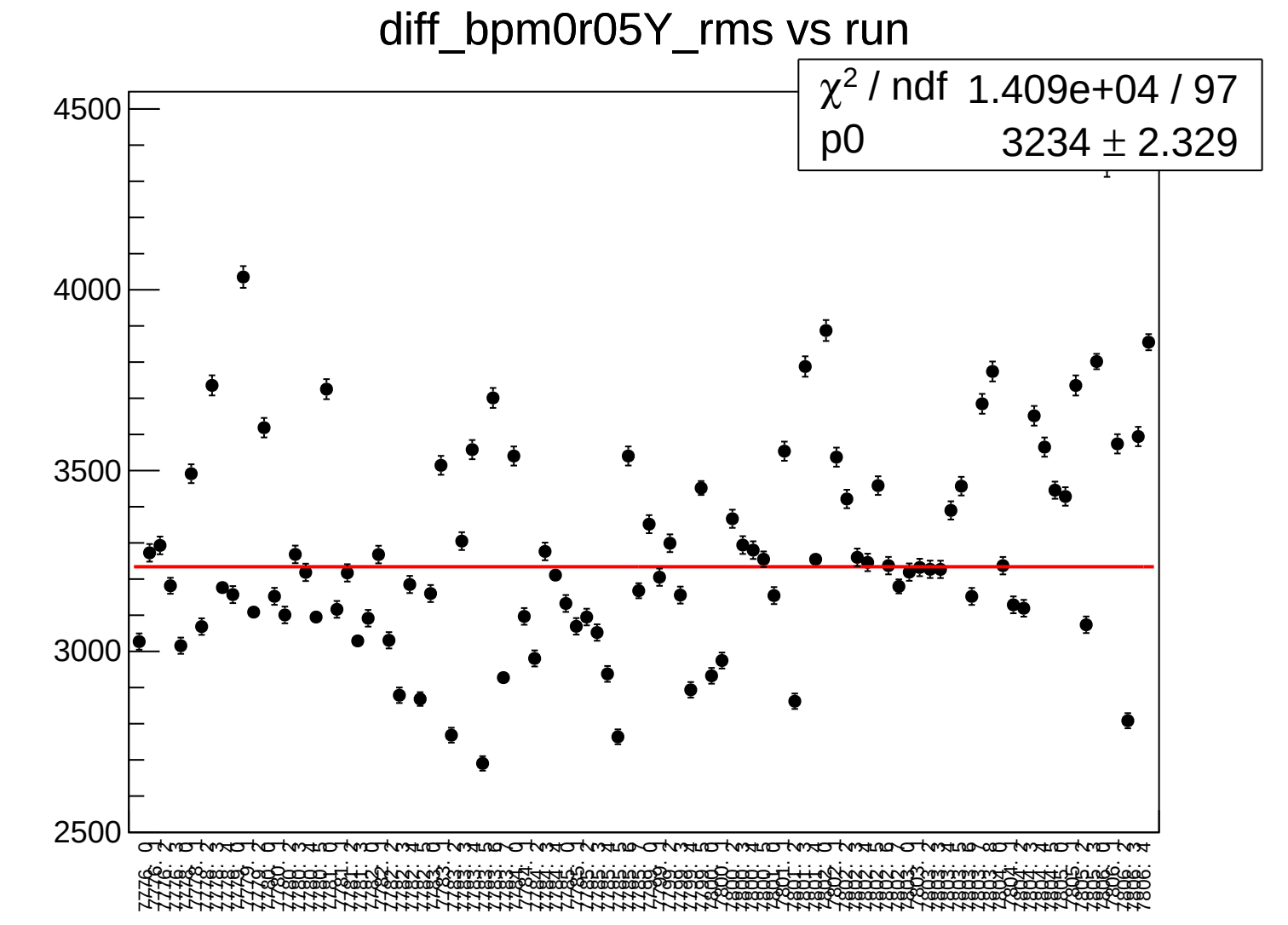

diff_bpm0r05X_mean vs run
χ^2 / ndf 87.02 / 97
p0 73.45 ± 65.23
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 72.93
Std Dev 108.5
2
1
0
−1
−2

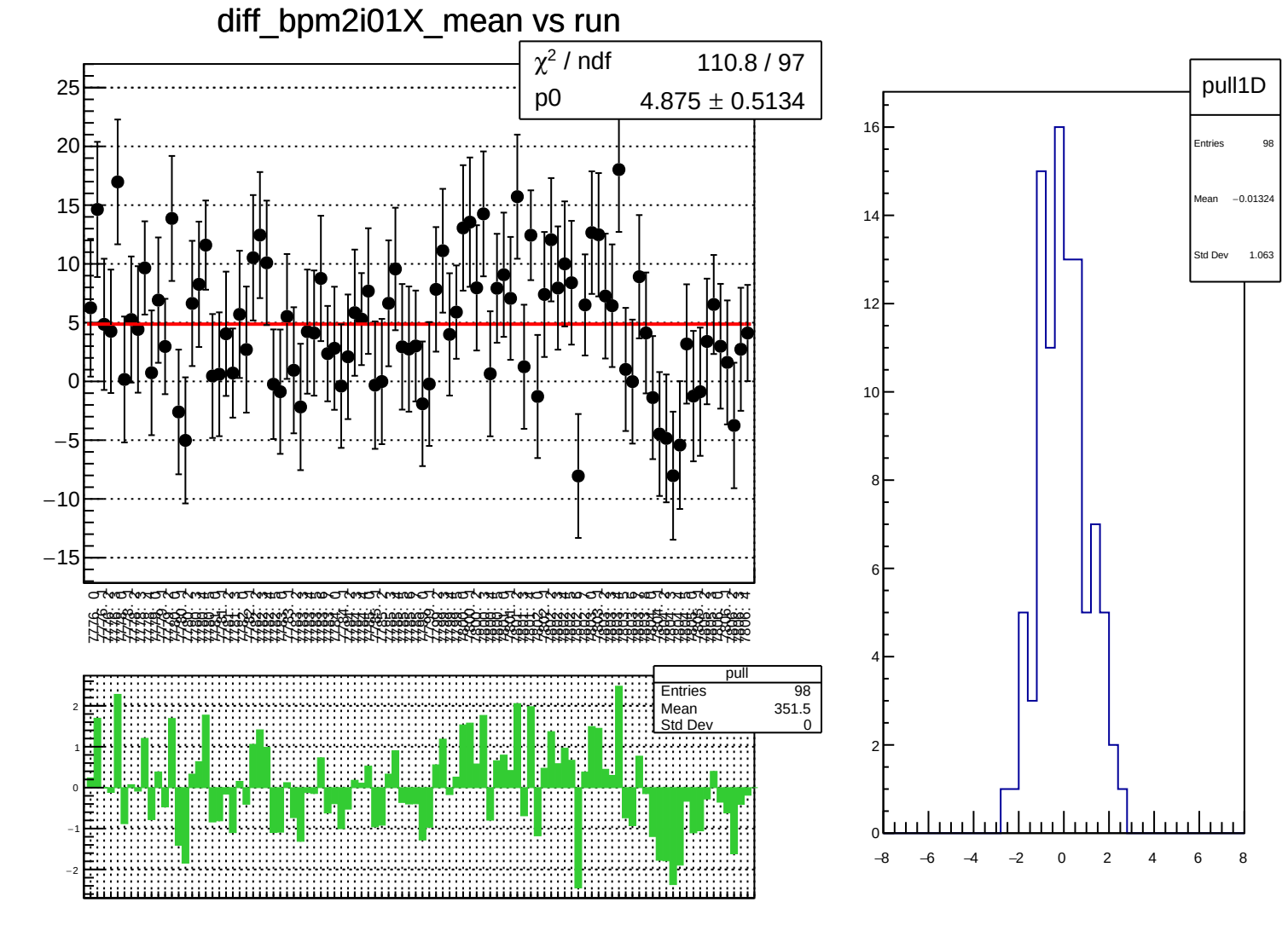

pull1D
Entries 98
Mean 0.008563
Std Dev 0.9423
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

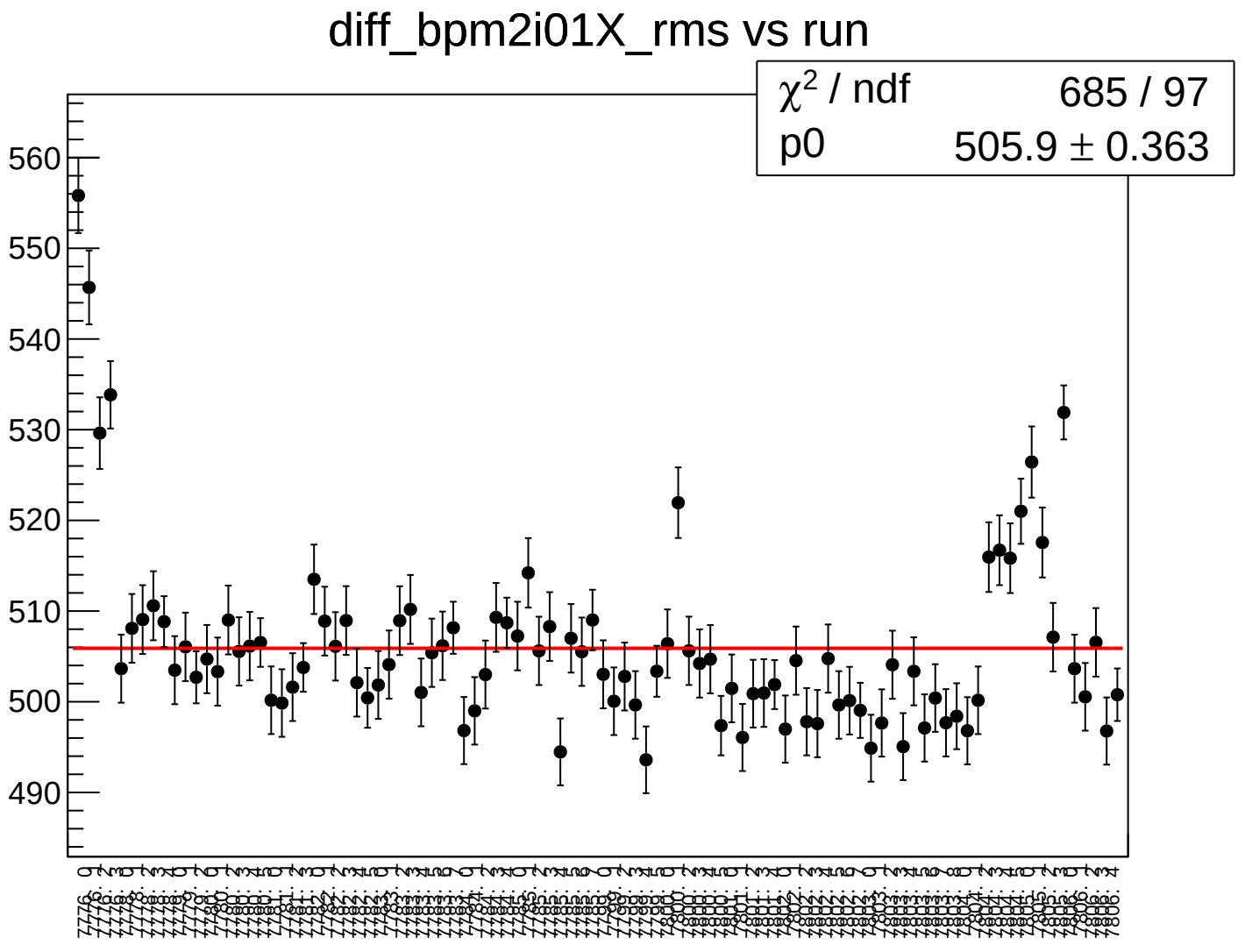

diff_bpm0r05X_rms vs run
χ^2 / ndf 1.867e+04 / 97
p0 6.398e+04 ± 46.13
90000
85000
80000
75000
70000
65000
60000
55000
50000

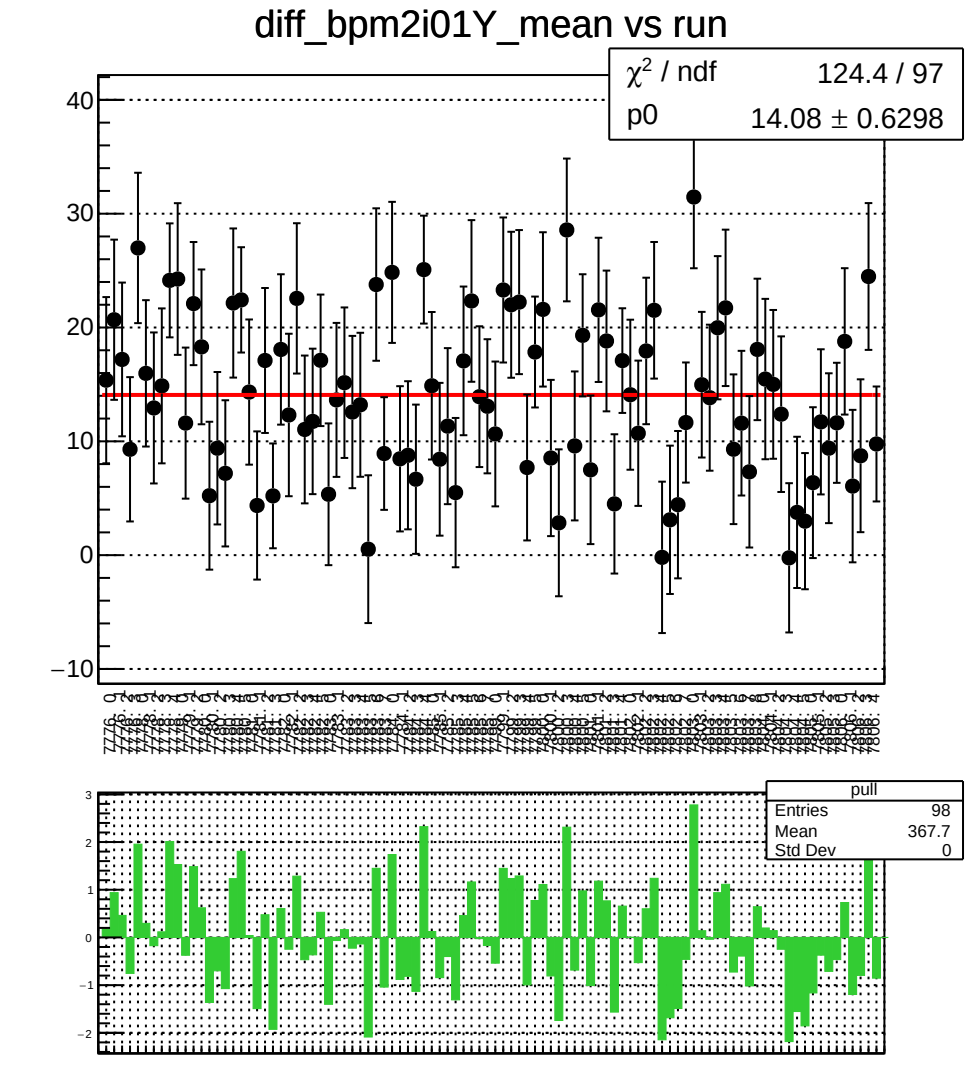

diff_bpm0r05Y_mean vs run
χ² / ndf 88.74 / 97
p0 −8.239 ± 3.293
100
50
0
−50
−100
pull
Entries 98
Mean 40.17
Std Dev 96.3
2
1
0
−1
−2

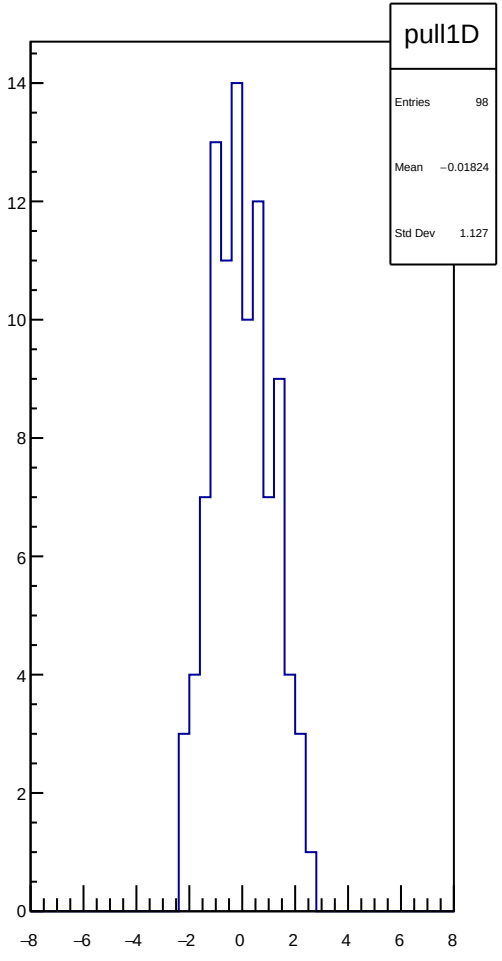

pull1D
Entries 98
Mean 0.01533
Std Dev 0.9515
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

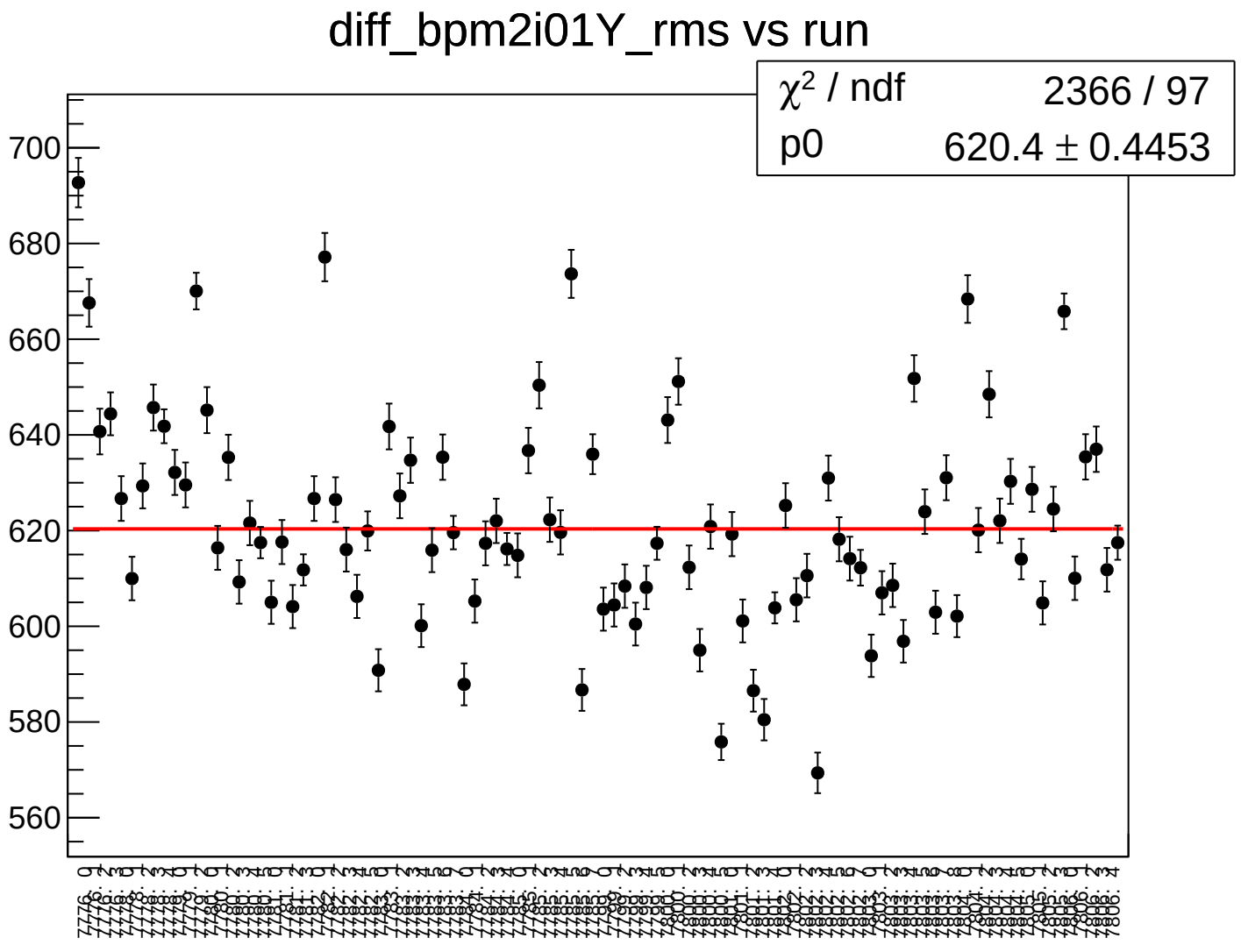

diff_bpm0r05Y_rms vs run
χ² / ndf 1.409e+04 / 97
p0 3234 ± 2.329
4500
4000
3500
3000
2500

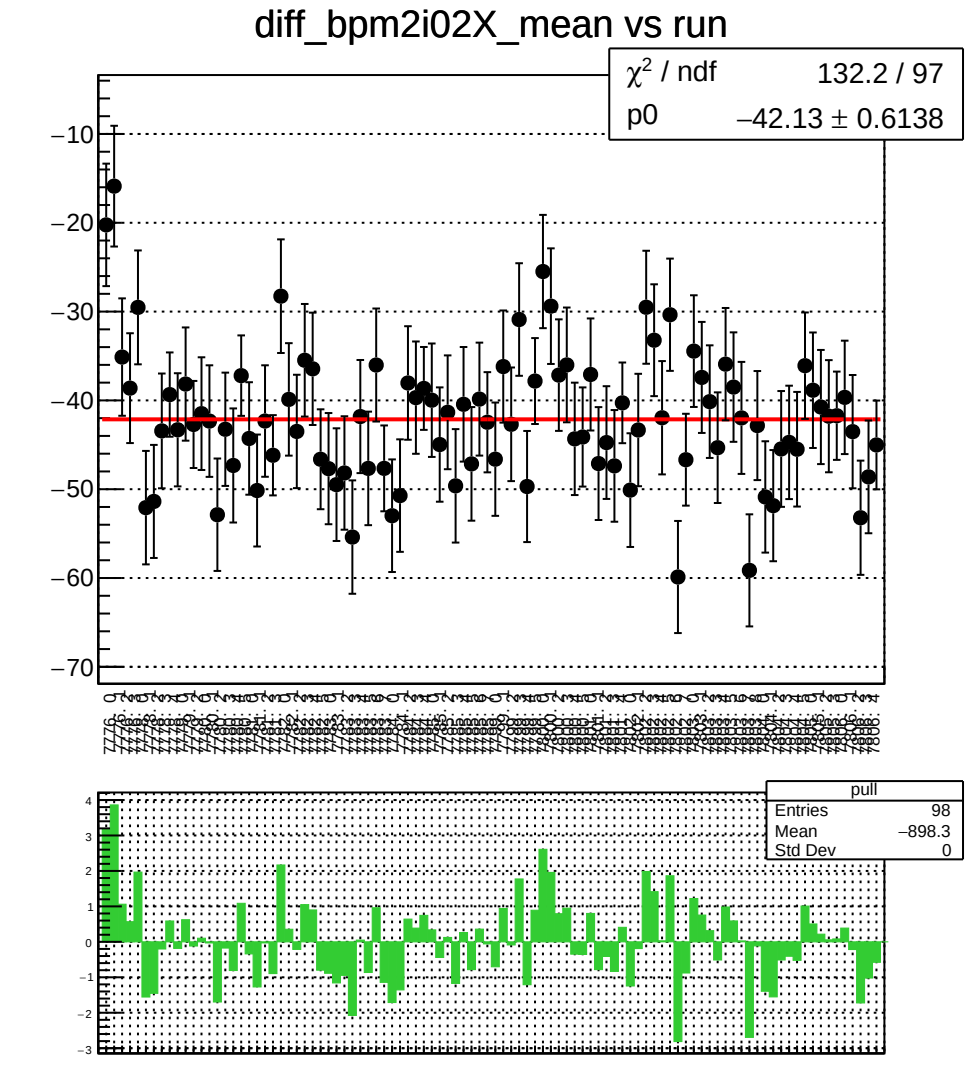

diff_bpm2i01X_mean vs run
χ² / ndf 110.8 / 97
p0 4.875 ± 0.5134
pull
Entries 98
Mean 351.5
Std Dev 0
pull1D
Entries 98
Mean −0.01324
Std Dev 1.063

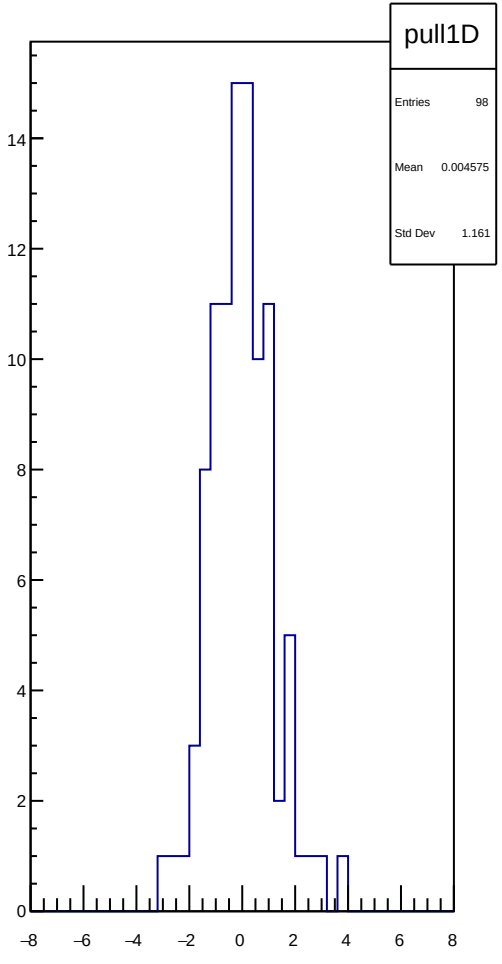

diff_bpm2i01X_rms vs run
χ² / ndf 685 / 97
p0 505.9 ± 0.363
560
550
540
530
520
510
500
490

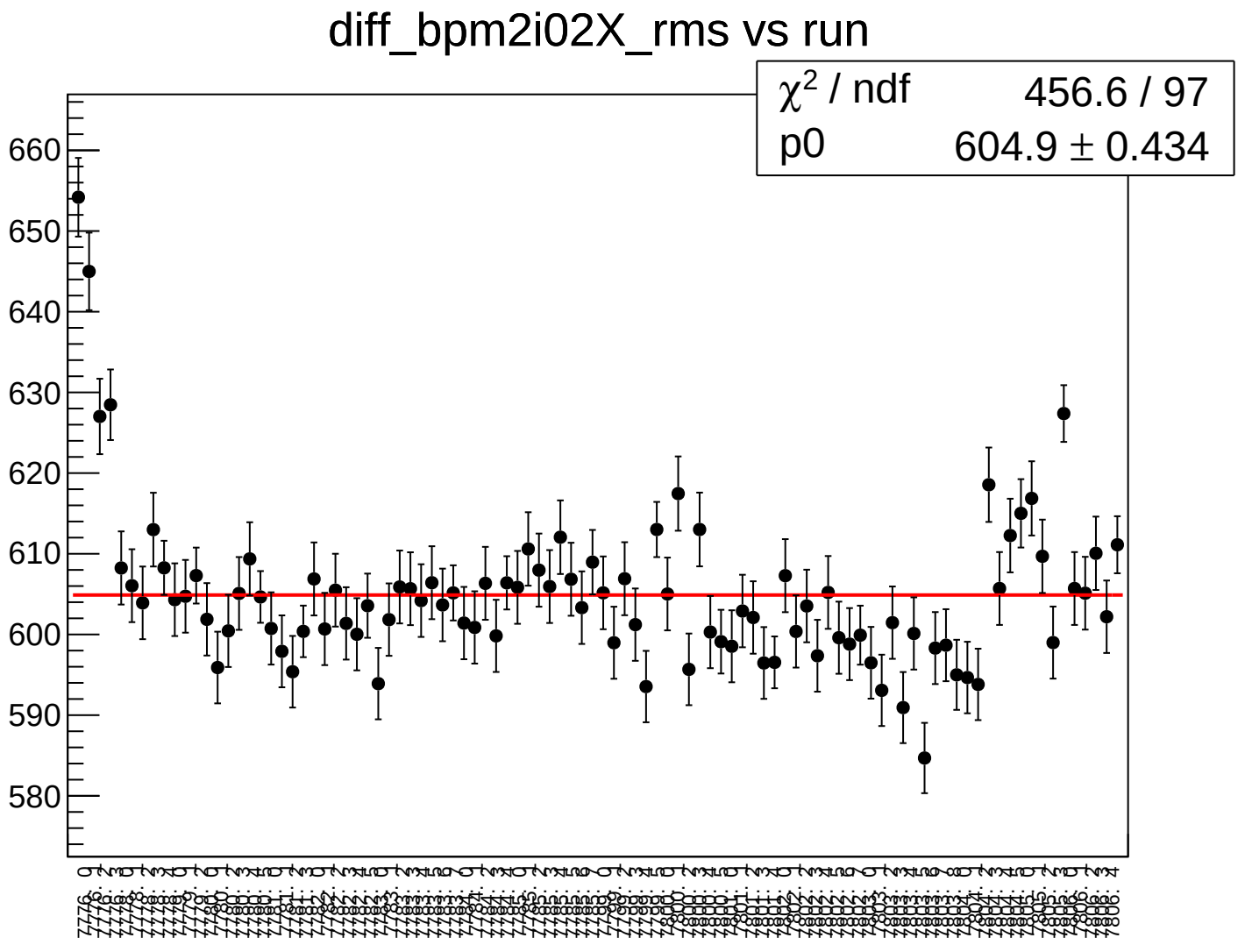

diff_bpm2i01Y_mean vs run
χ² / ndf 124.4 / 97
p0 14.08 ± 0.6298
pull
Entries 98
Mean 367.7
Std Dev 0

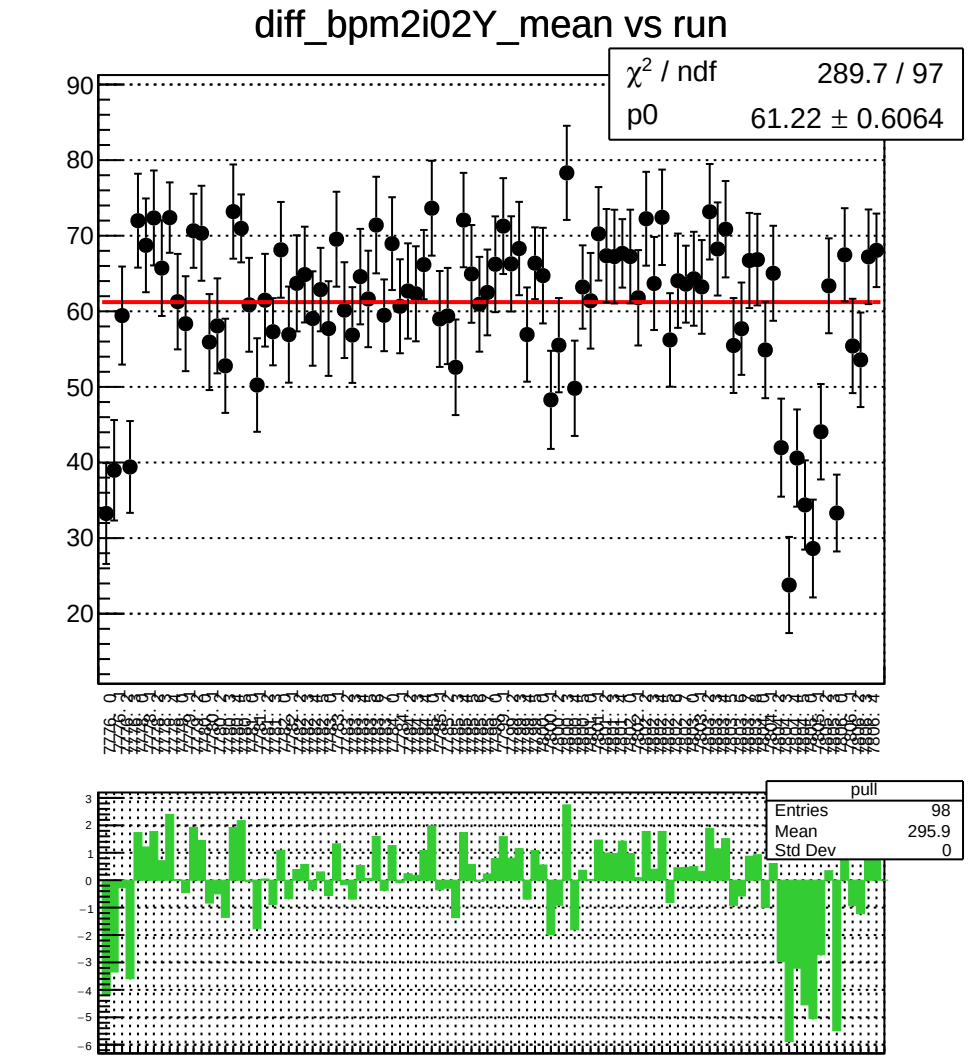

pull1D
Entries 98
Mean −0.01824
Std Dev 1.127

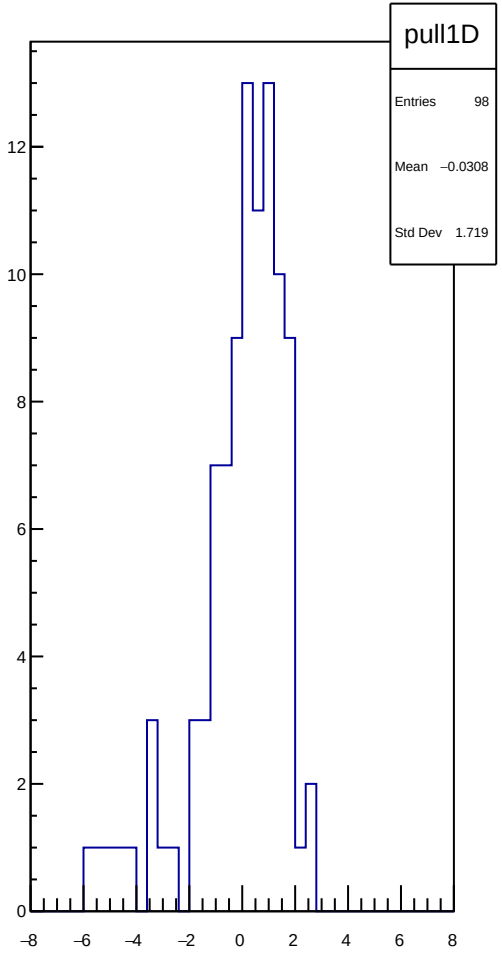

diff_bpm2i01Y_rms vs run
χ² / ndf 2366 / 97
p0 620.4 ± 0.4453
700
680
660
640
620
600
580
560

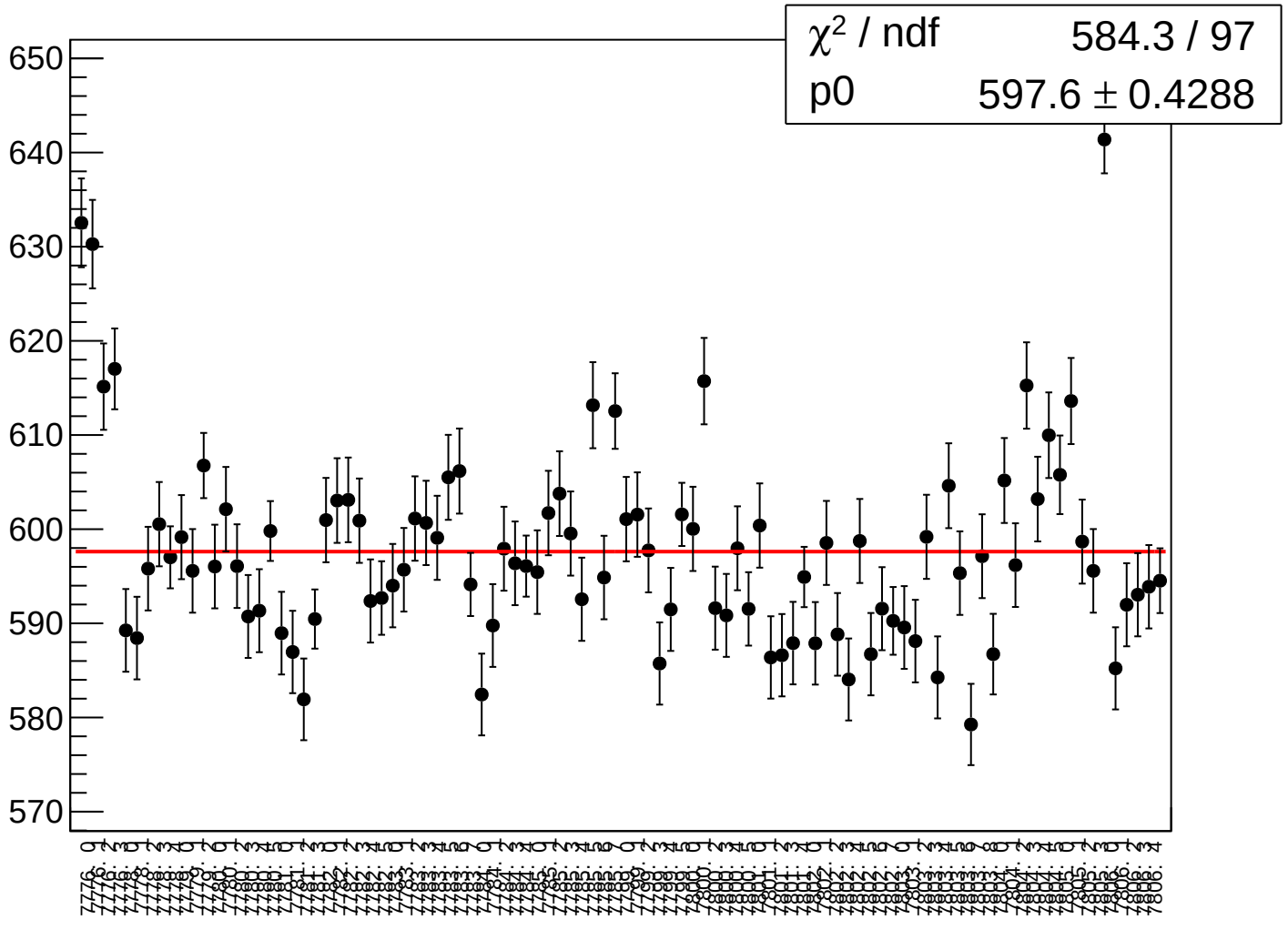

diff_bpm2i02X_mean vs run
χ² / ndf 132.2 / 97
p0 −42.13 ± 0.6138
pull
Entries 98
Mean −898.3
Std Dev 0

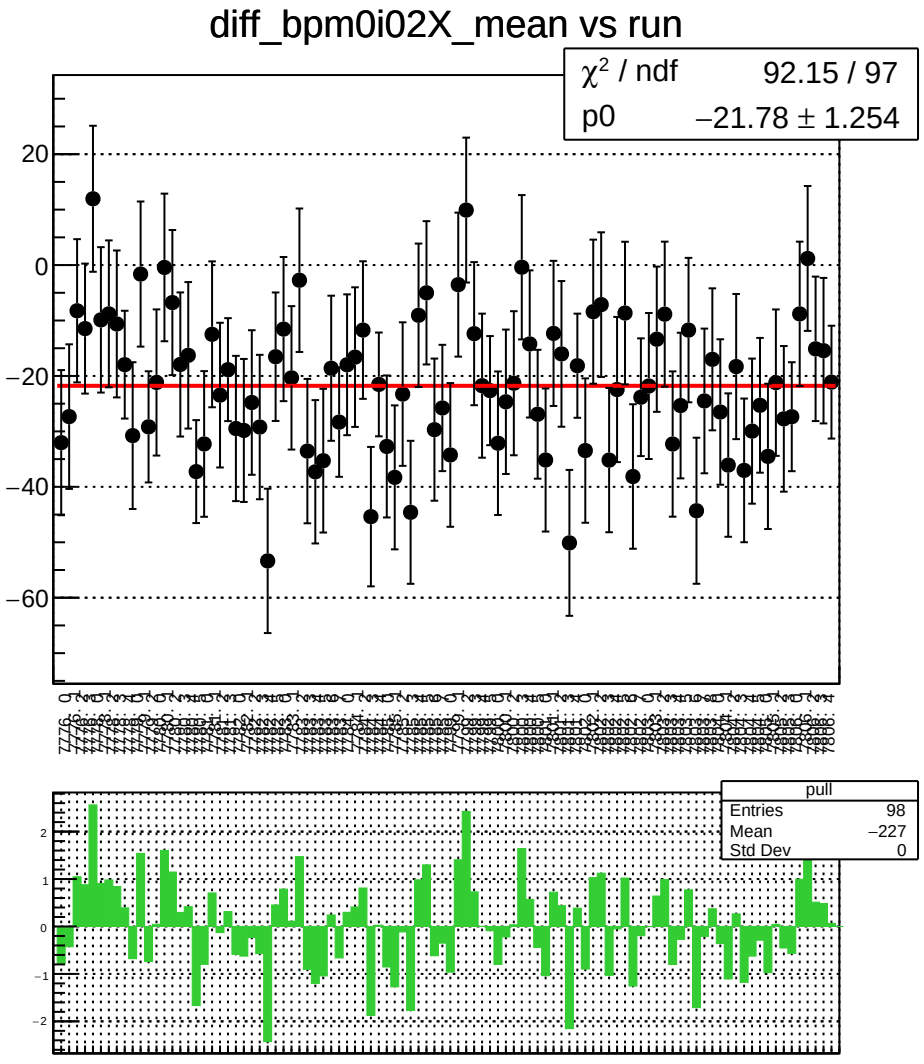

pull1D
Entries 98
Mean 0.004575
Std Dev 1.161

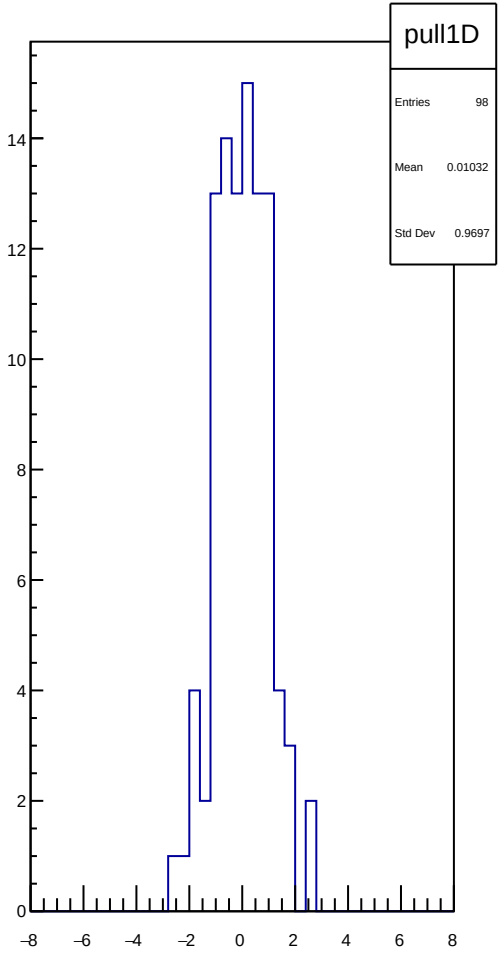

diff_bpm2i02X_rms vs run
χ² / ndf 456.6 / 97
p0 604.9 ± 0.434
660
650
640
630
620
610
600
590
580

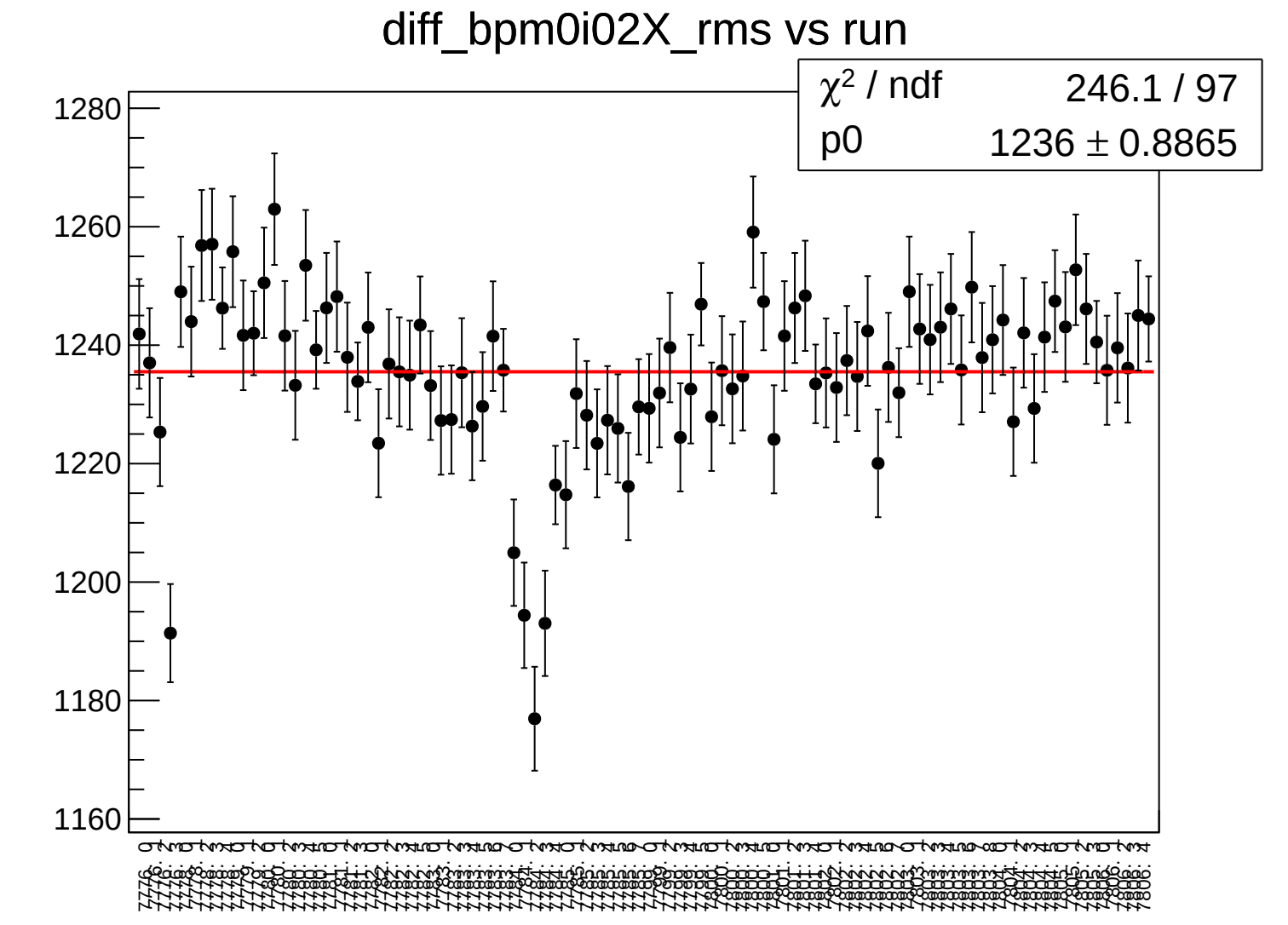

diff_bpm2i02Y_mean vs run
χ² / ndf 289.7 / 97
p0 61.22 ± 0.6064
pull
Entries 98
Mean 295.9
Std Dev 0

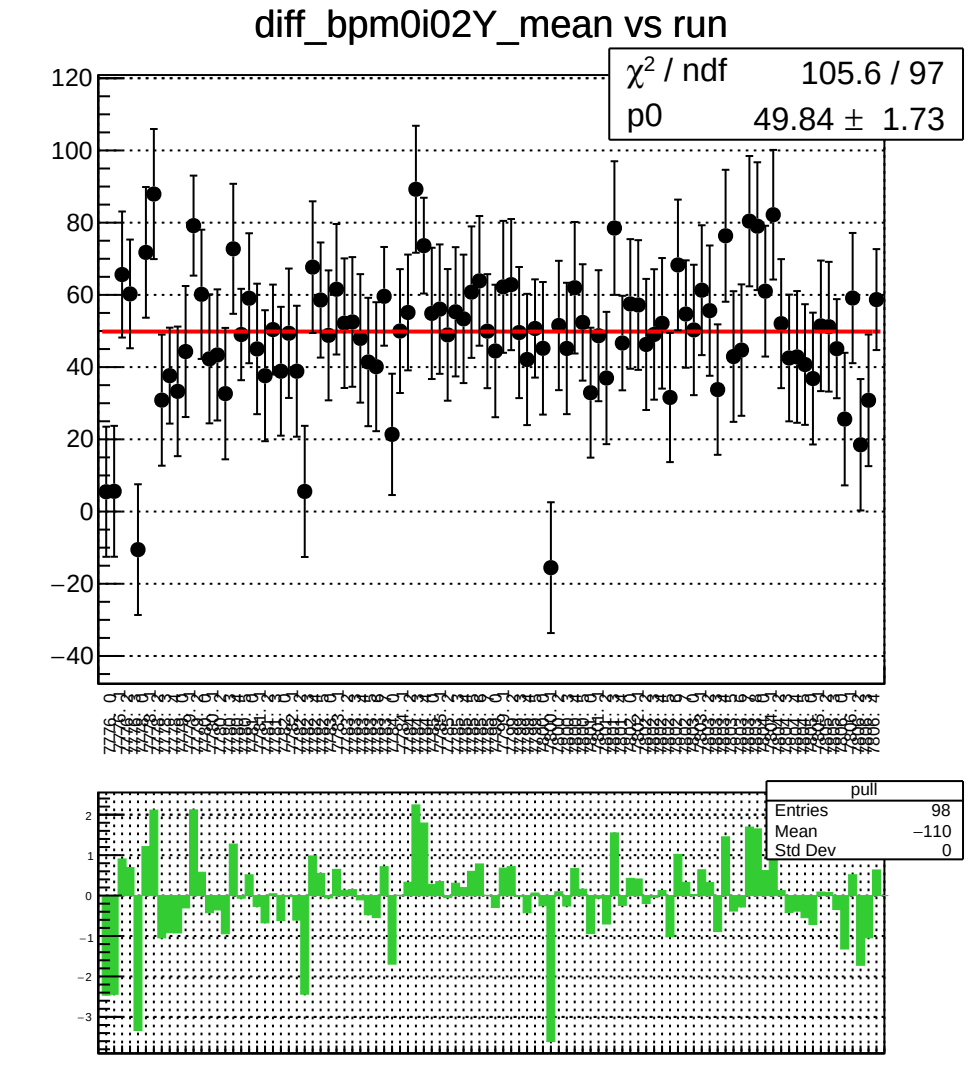

pull1D
Entries 98
Mean −0.0308
Std Dev 1.719

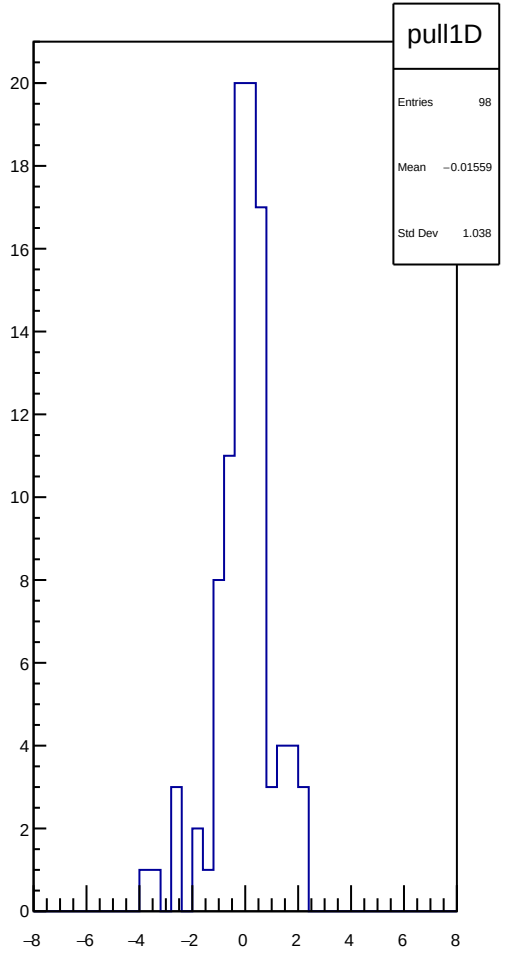

diff_bpm2i02Y_rms vs run
χ² / ndf 584.3 / 97
p0 597.6 ± 0.4288
650
640
630
620
610
600
590
580
570

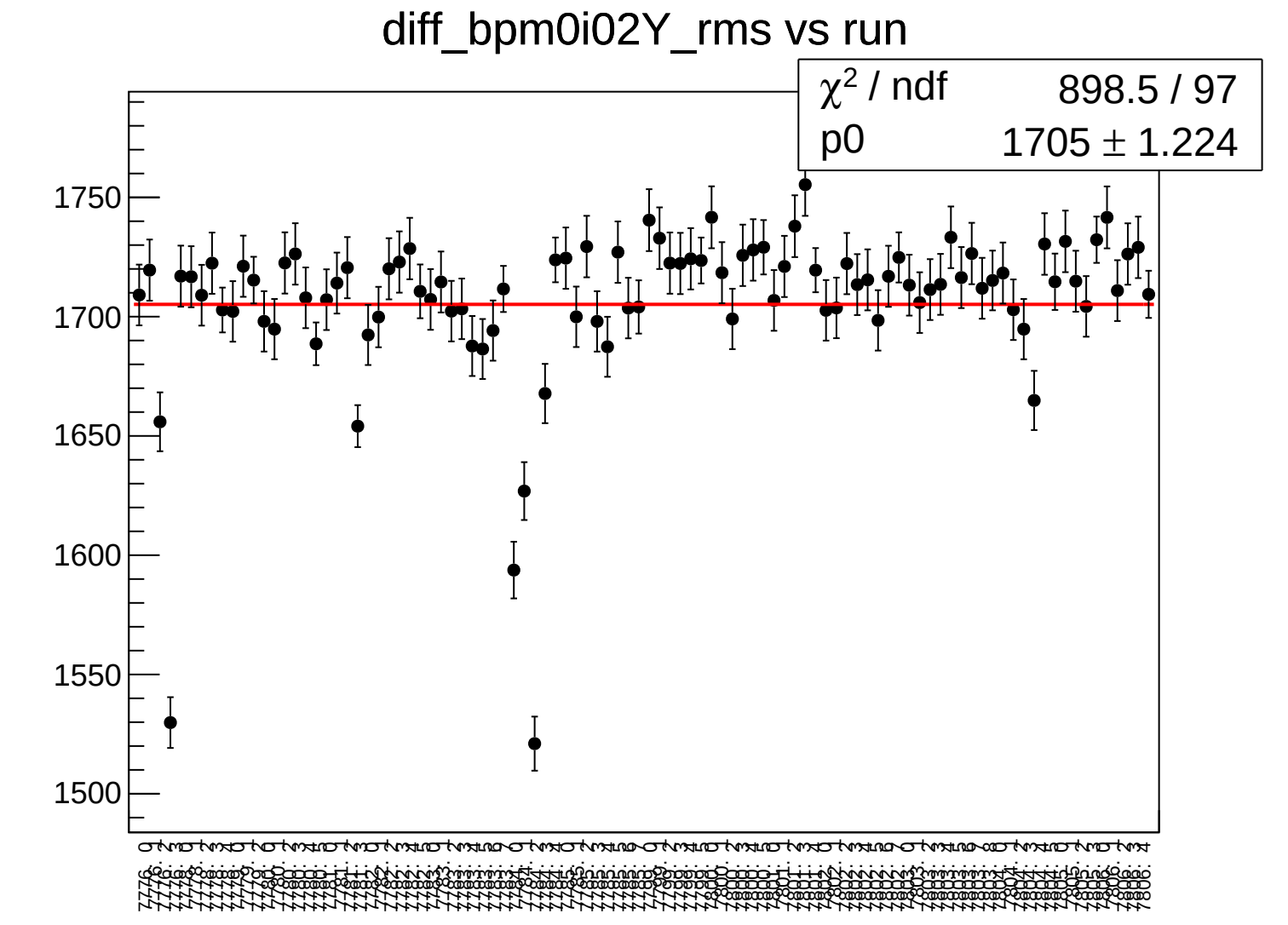

diff_bpm0i02X_mean vs run
χ² / ndf 92.15 / 97
p0 −21.78 ± 1.254
20
0
−20
−40
−60
pull
Entries 98
Mean −227
Std Dev 0
2
1
0
−1
−2

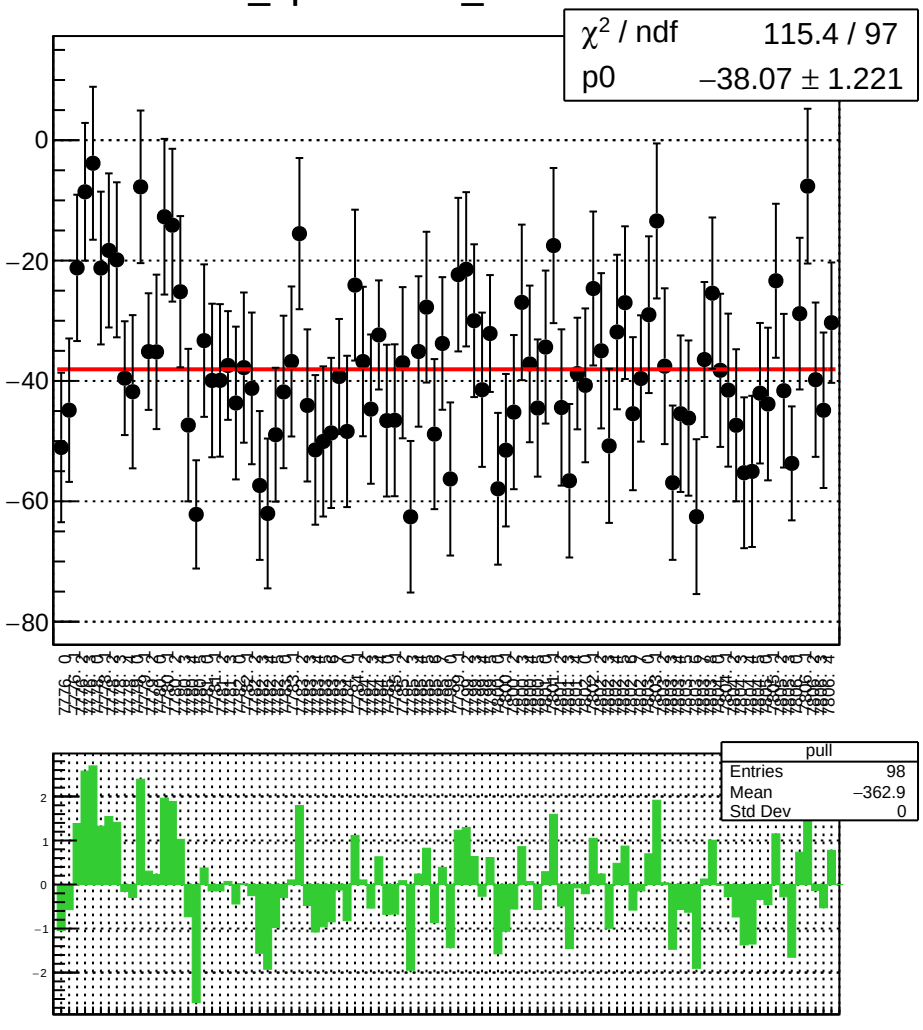

pull1D
Entries 98
Mean 0.01032
Std Dev 0.9697
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

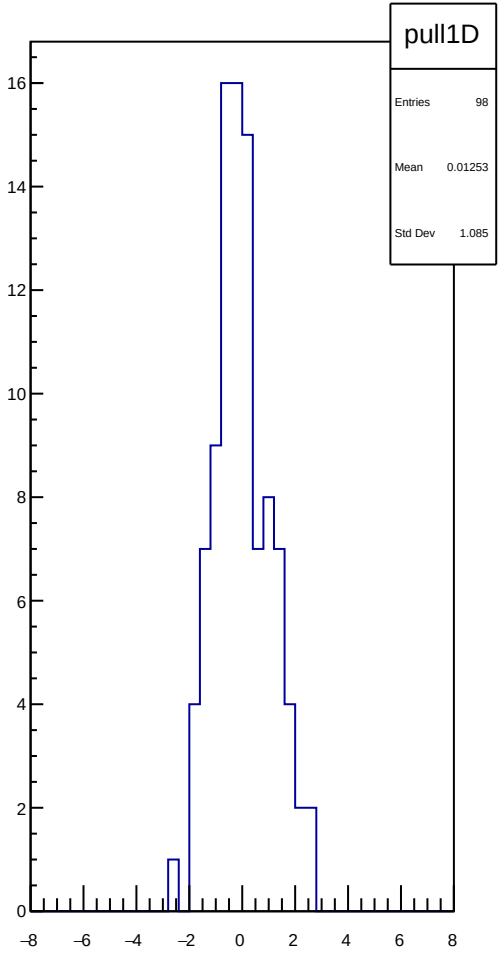

diff_bpm0i02X_rms vs run
χ² / ndf 246.1 / 97
p0 1236 ± 0.8865
1280
1260
1240
1220
1200
1180
1160

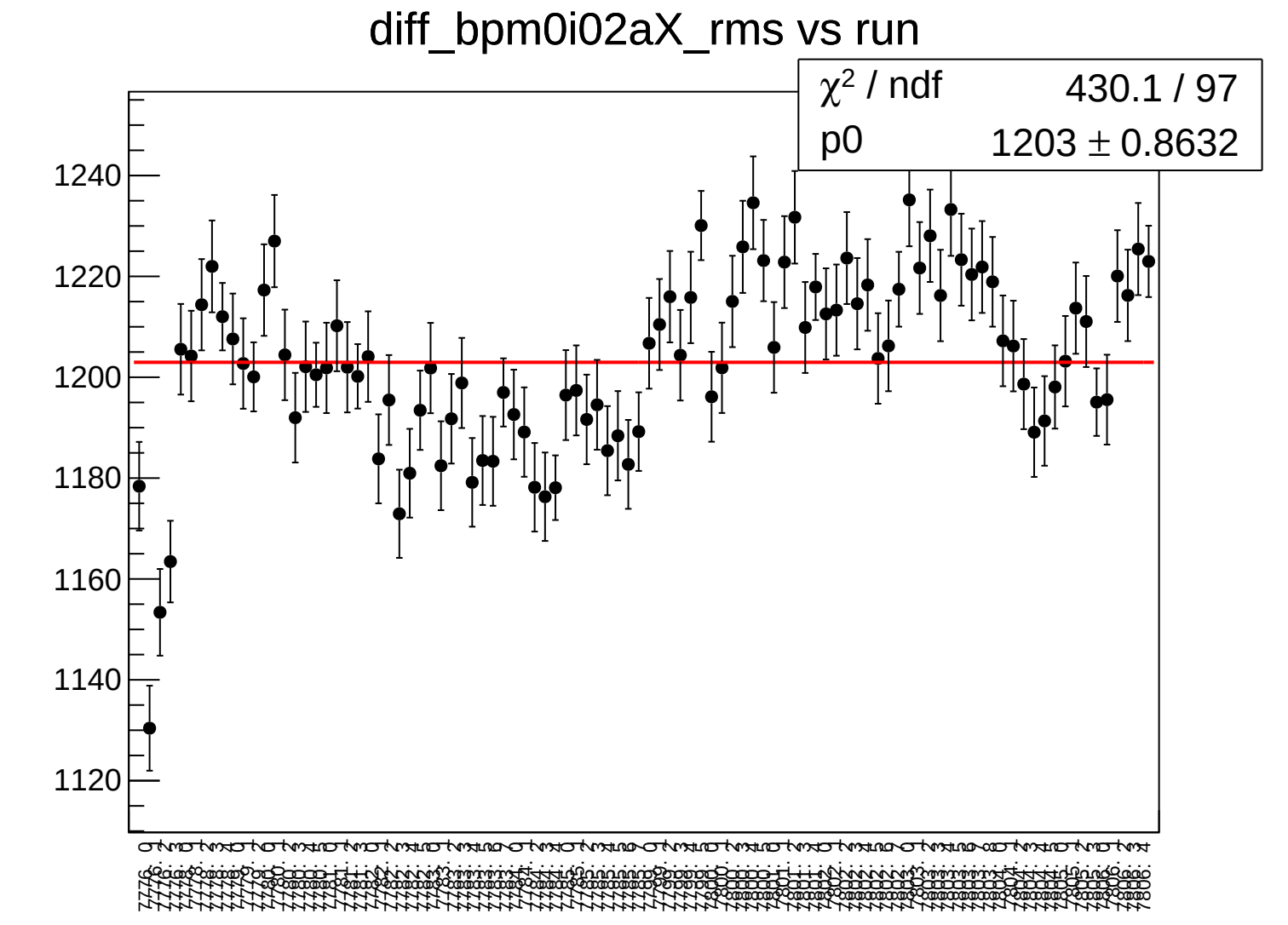

diff_bpm0i02Y_mean vs run
χ² / ndf 105.6 / 97
p0 49.84 ± 1.73
pull
Entries 98
Mean −110
Std Dev 0

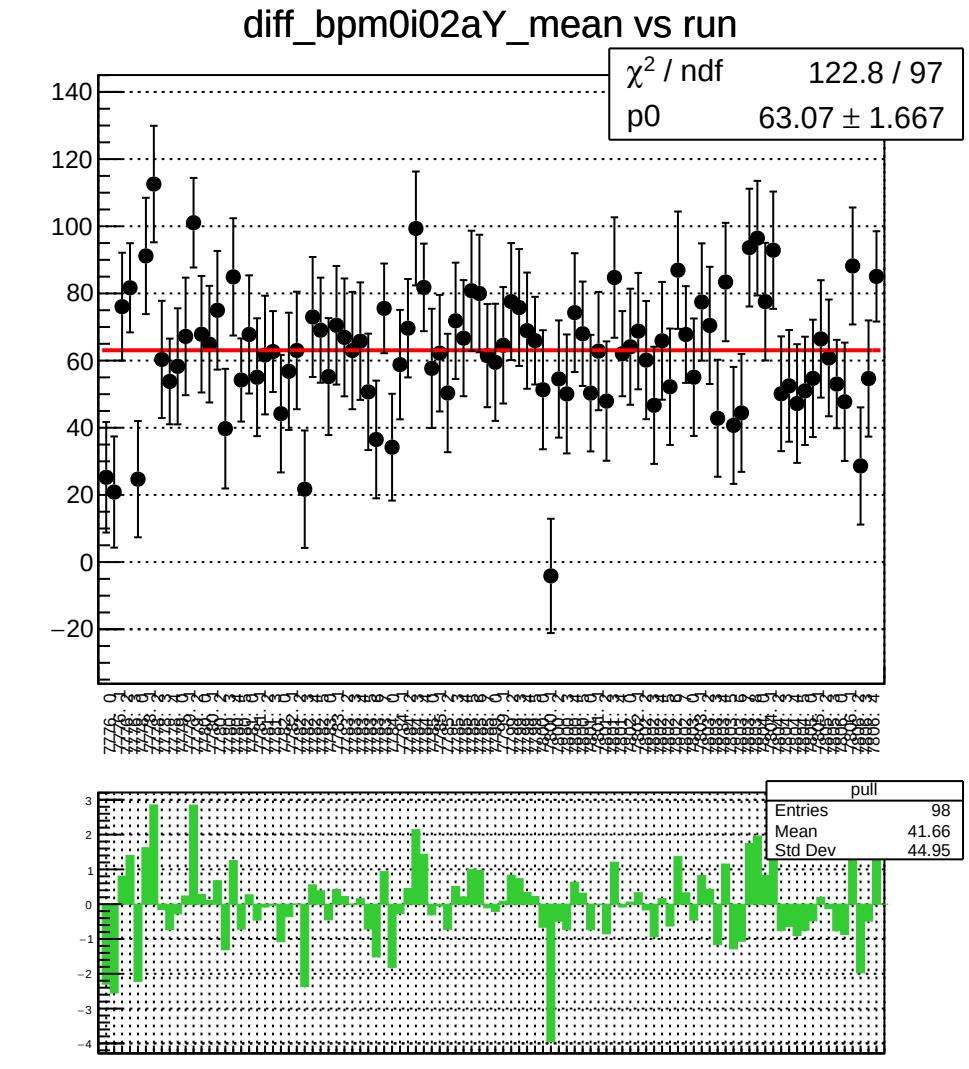

pull1D
Entries 98
Mean −0.01559
Std Dev 1.038

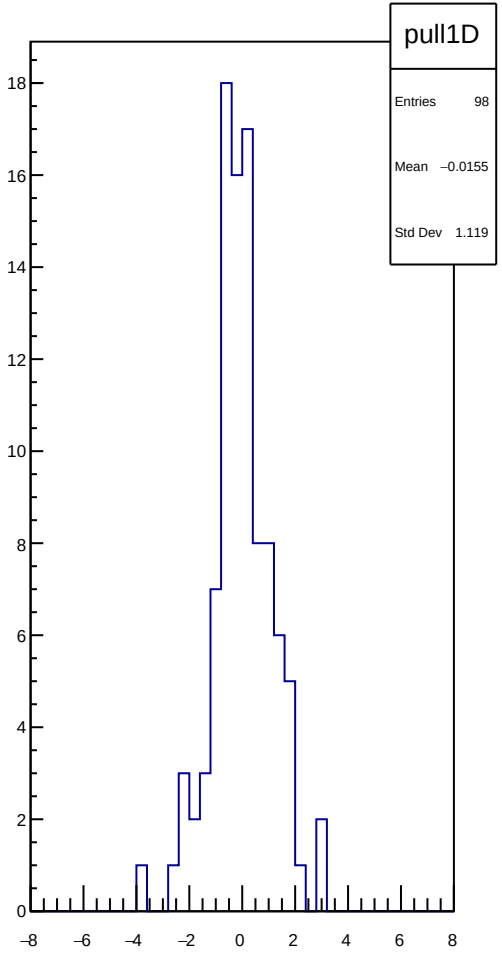

diff_bpm0i02Y_rms vs run
χ^2 / ndf 898.5 / 97
p0 1705 ± 1.224
1750
1700
1650
1600
1550
1500

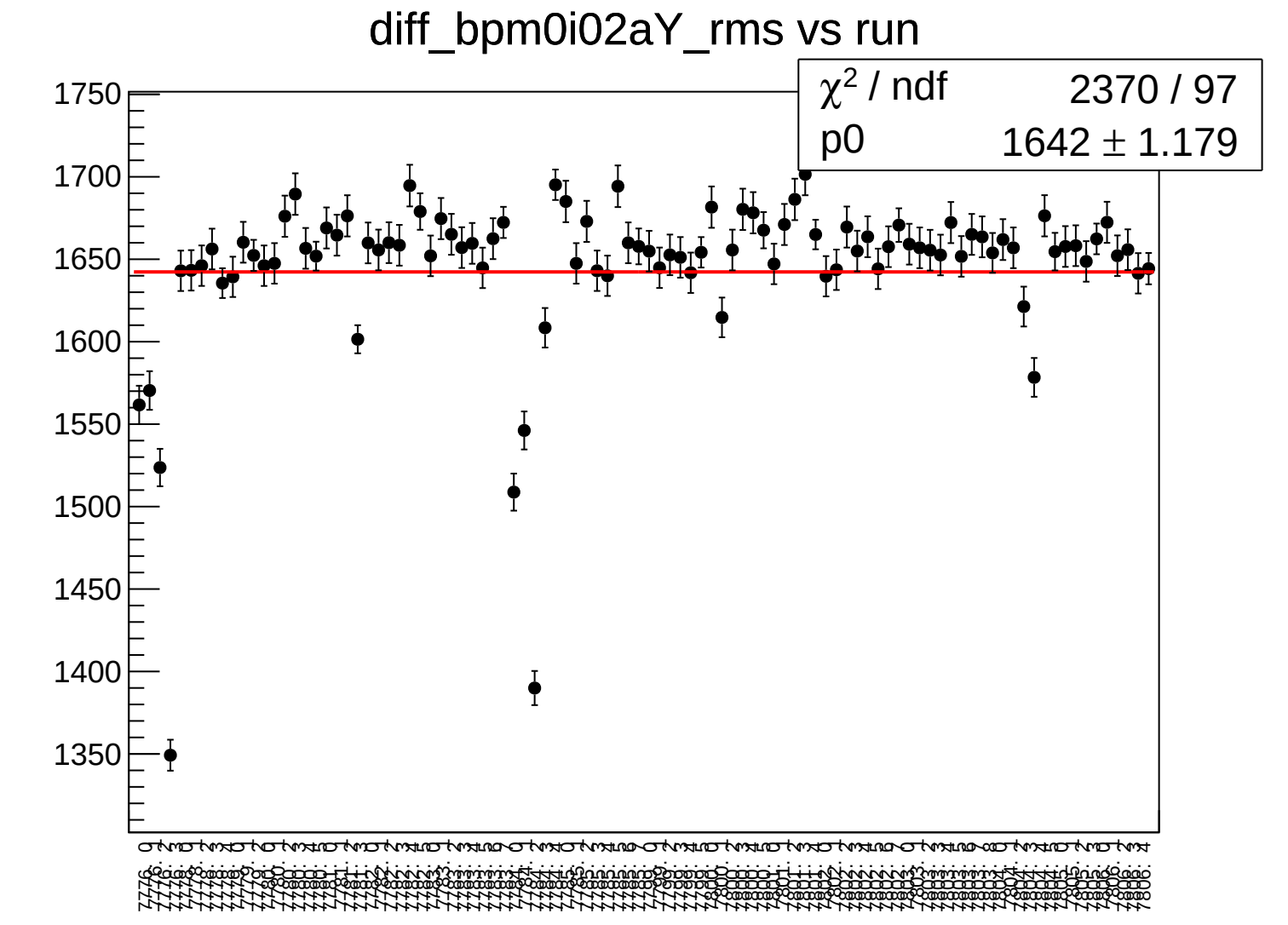

diff_bpm0i02aX_mean vs run
χ² / ndf 115.4 / 97
p0 −38.07 ± 1.221
0
−20
−40
−60
−80
pull
Entries 98
Mean −362.9
Std Dev 0
2
1
0
−1
−2

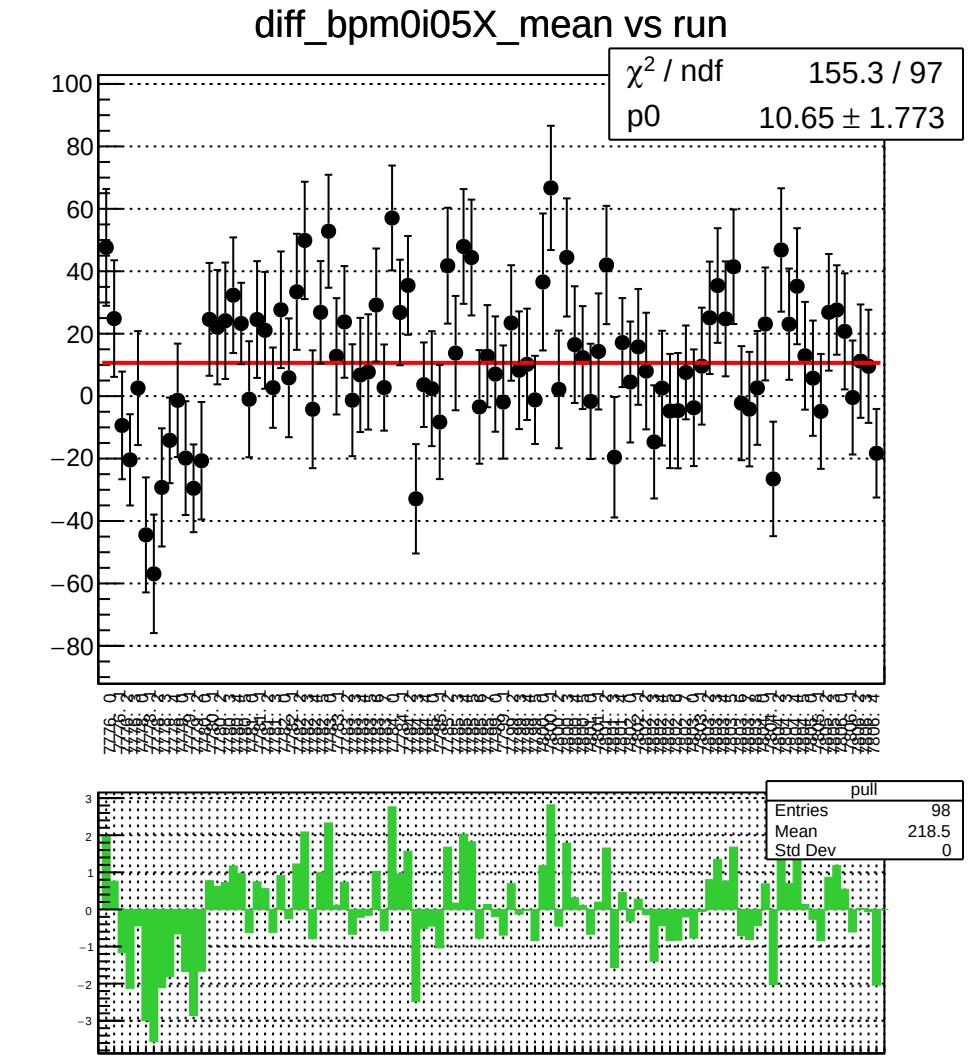

pull1D
Entries 98
Mean 0.01253
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

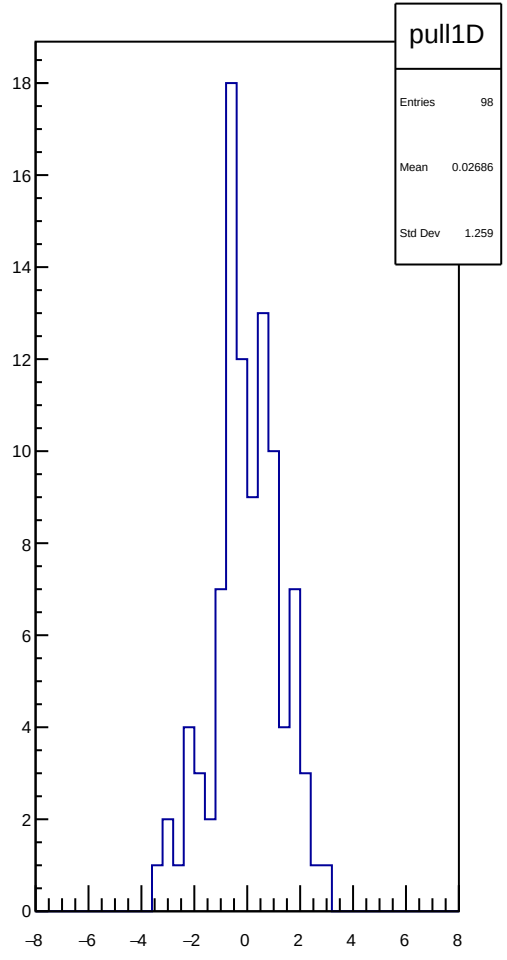

diff_bpm0i02aX_rms vs run
χ² / ndf 430.1 / 97
p0 1203 ± 0.8632
1240
1220
1200
1180
1160
1140
1120

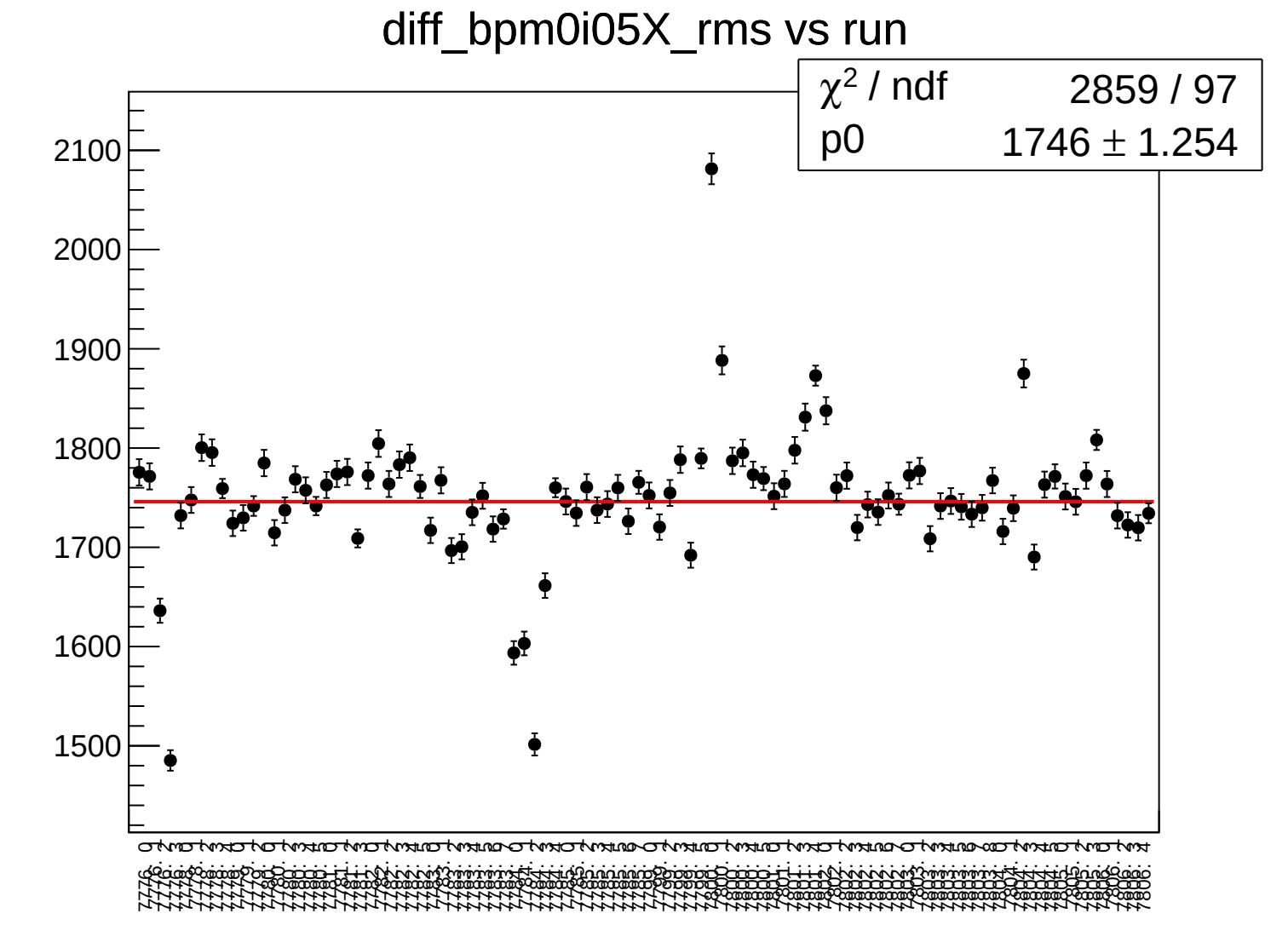

diff_bpm0i02aY_mean vs run
χ^2 / ndf 122.8 / 97
p0 63.07 ± 1.667
pull
Entries 98
Mean 41.66
Std Dev 44.95

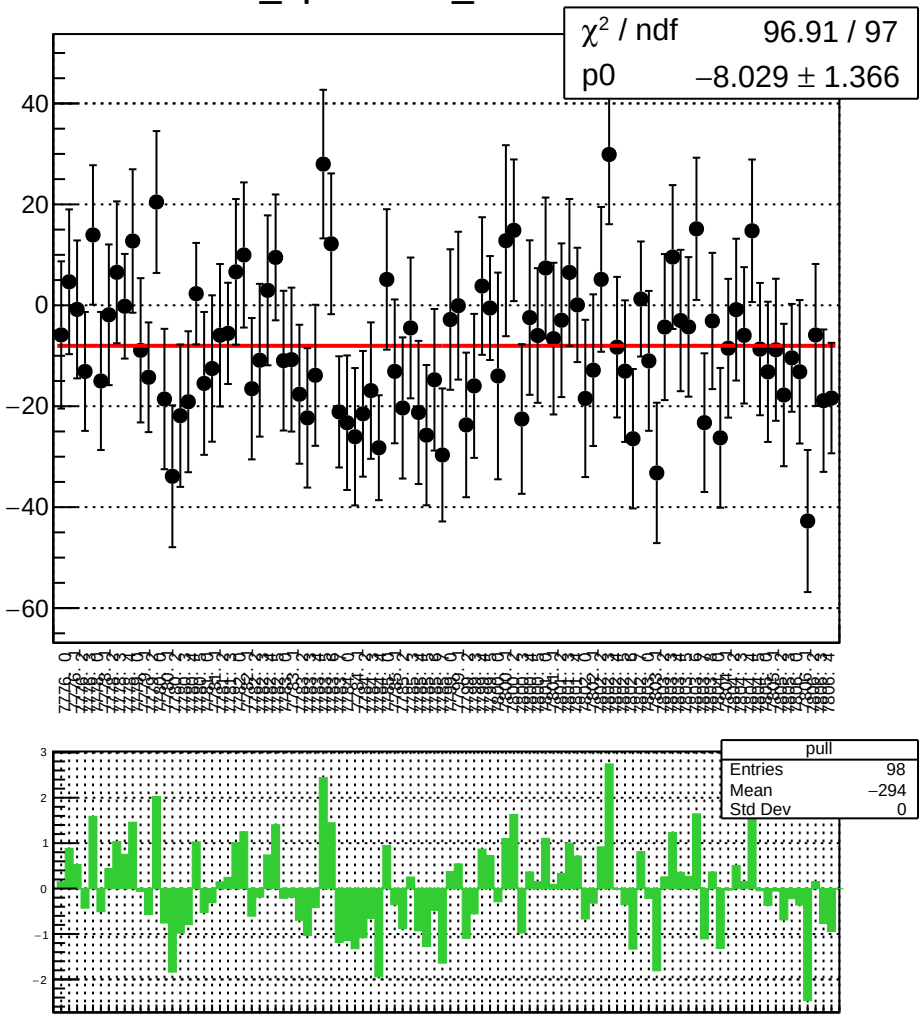

pull1D
Entries 98
Mean −0.0155
Std Dev 1.119

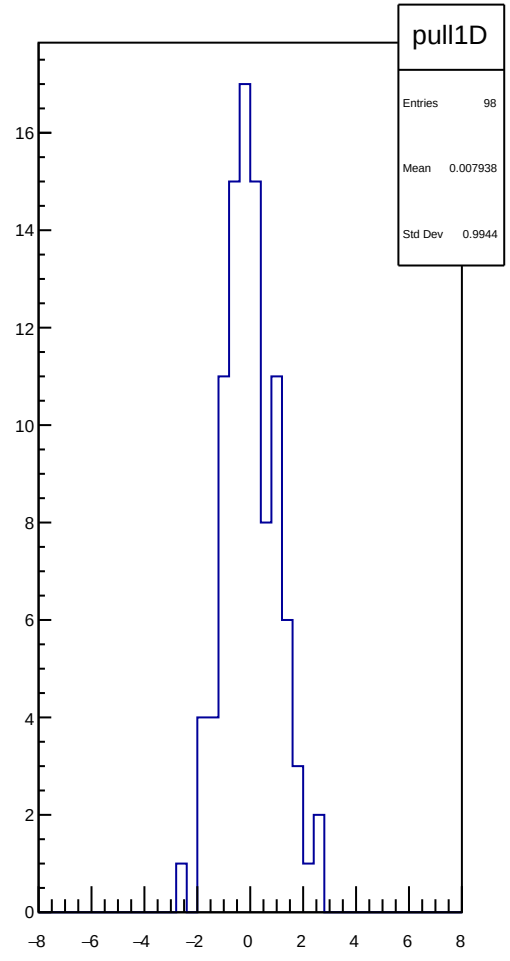

diff_bpm0i02aY_rms vs run
χ² / ndf 2370 / 97
p0 1642 ± 1.179
1750
1700
1650
1600
1550
1500
1450
1400
1350

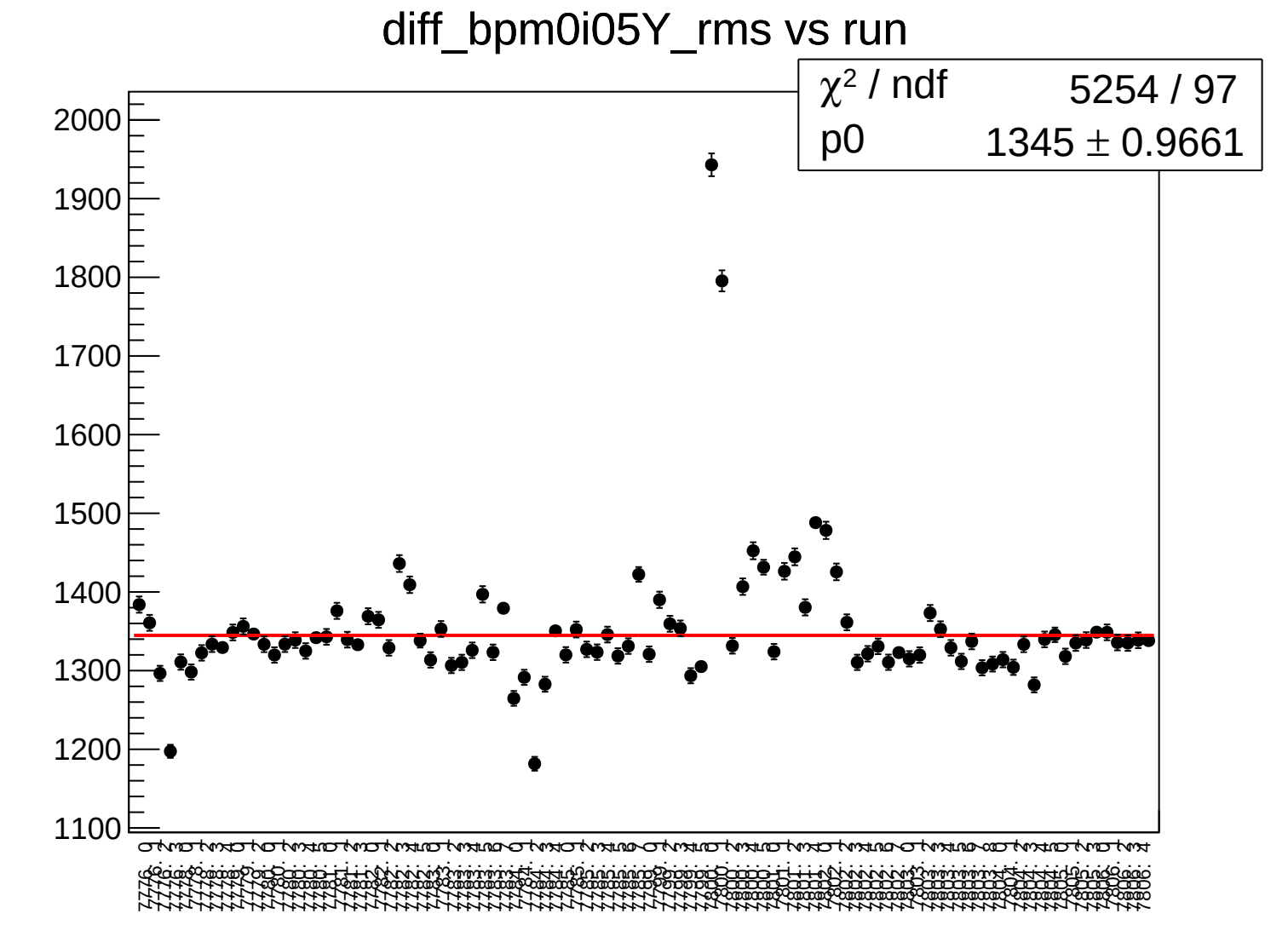

diff_bpm0i05X_mean vs run
χ^2 / ndf 155.3 / 97
p0 10.65 ± 1.773
pull
Entries 98
Mean 218.5
Std Dev 0

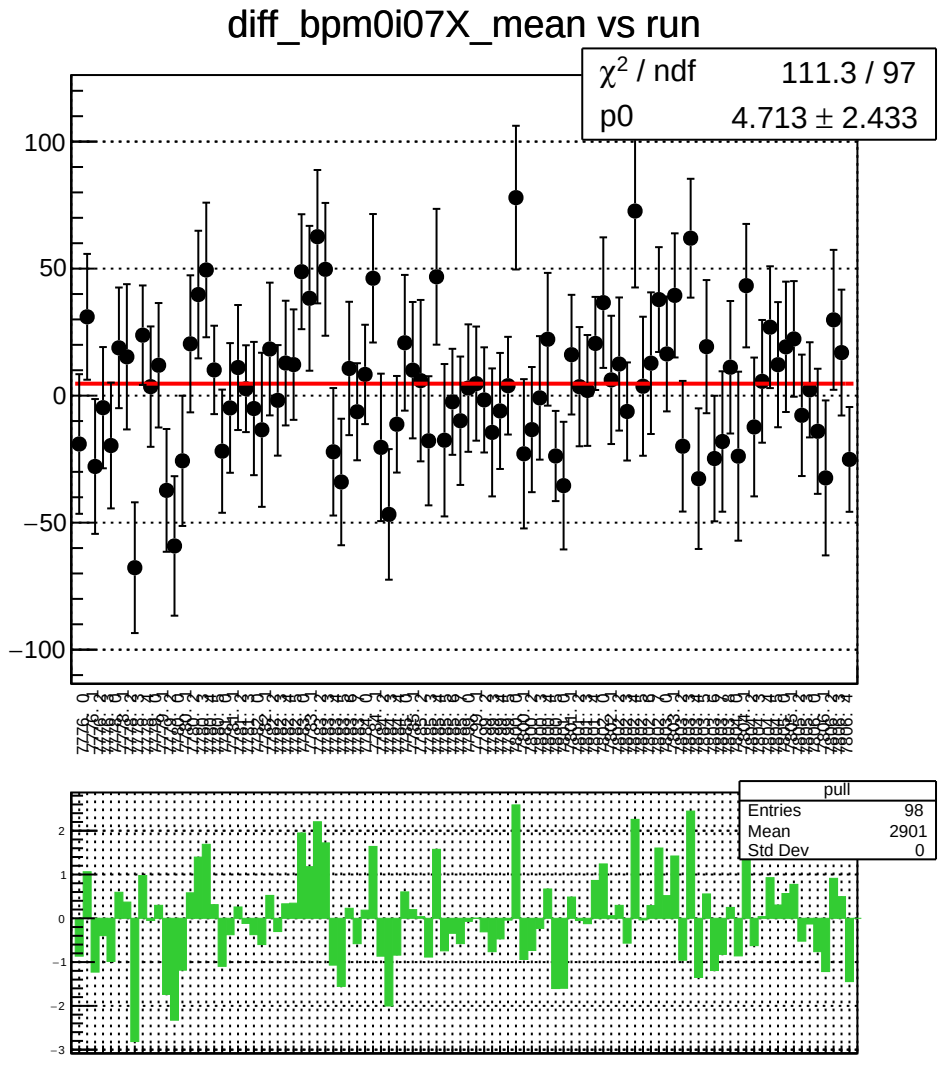

pull1D
Entries 98
Mean 0.02686
Std Dev 1.259

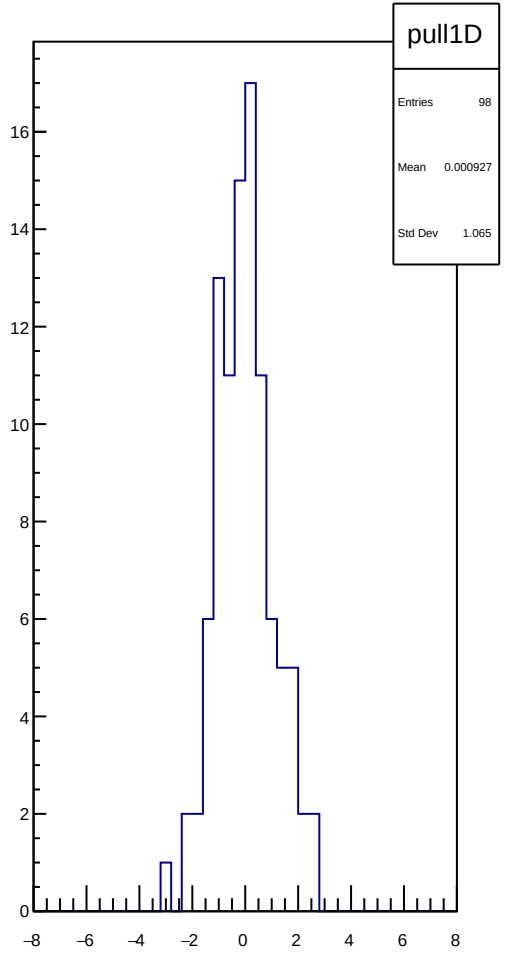

diff_bpm0i05X_rms vs run
χ² / ndf 2859 / 97
p0 1746 ± 1.254
2100
2000
1900
1800
1700
1600
1500

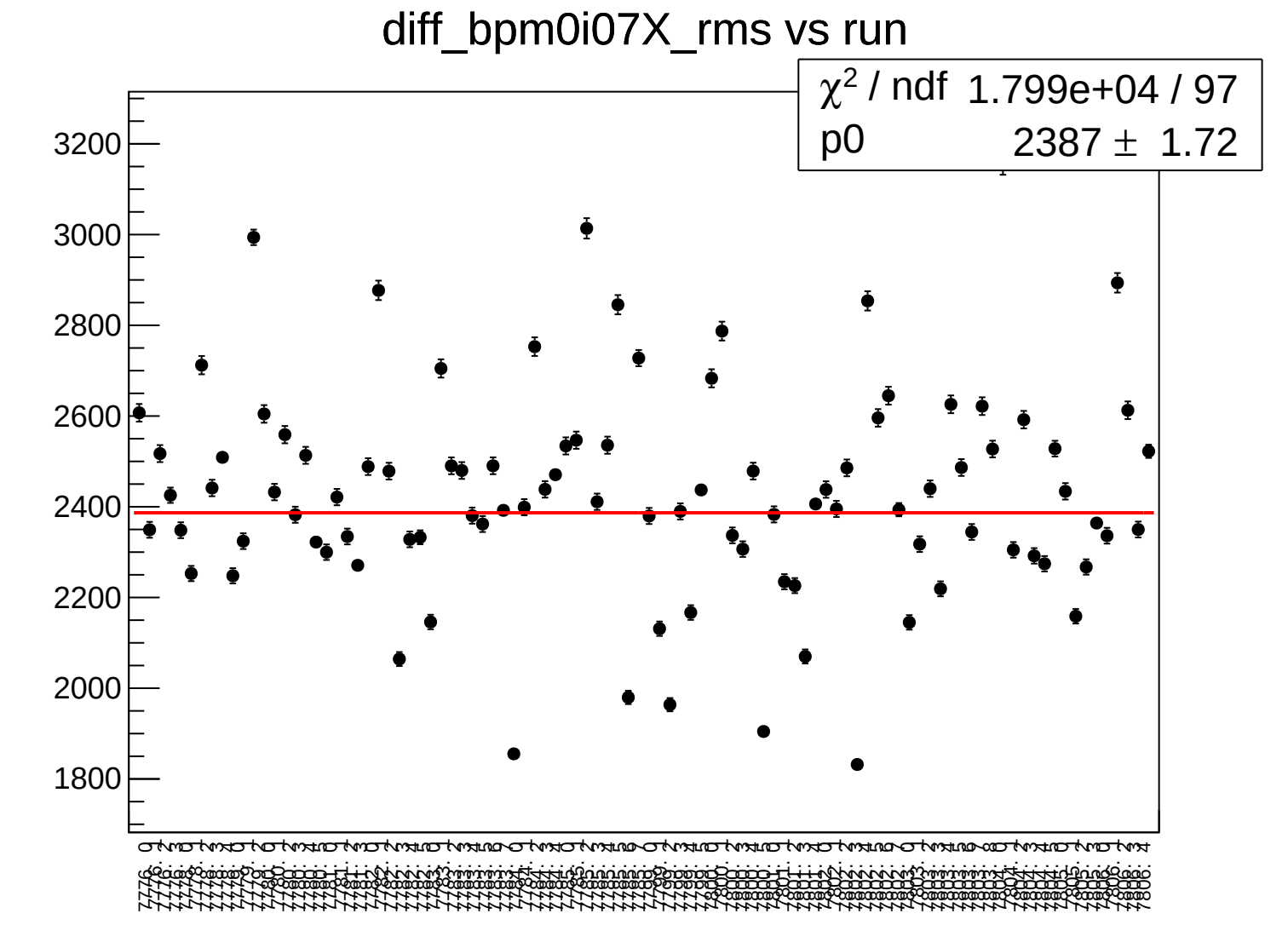

diff_bpm0i05Y_mean vs run
χ² / ndf 96.91 / 97
p0 −8.029 ± 1.366
pull
Entries 98
Mean −294
Std Dev 0

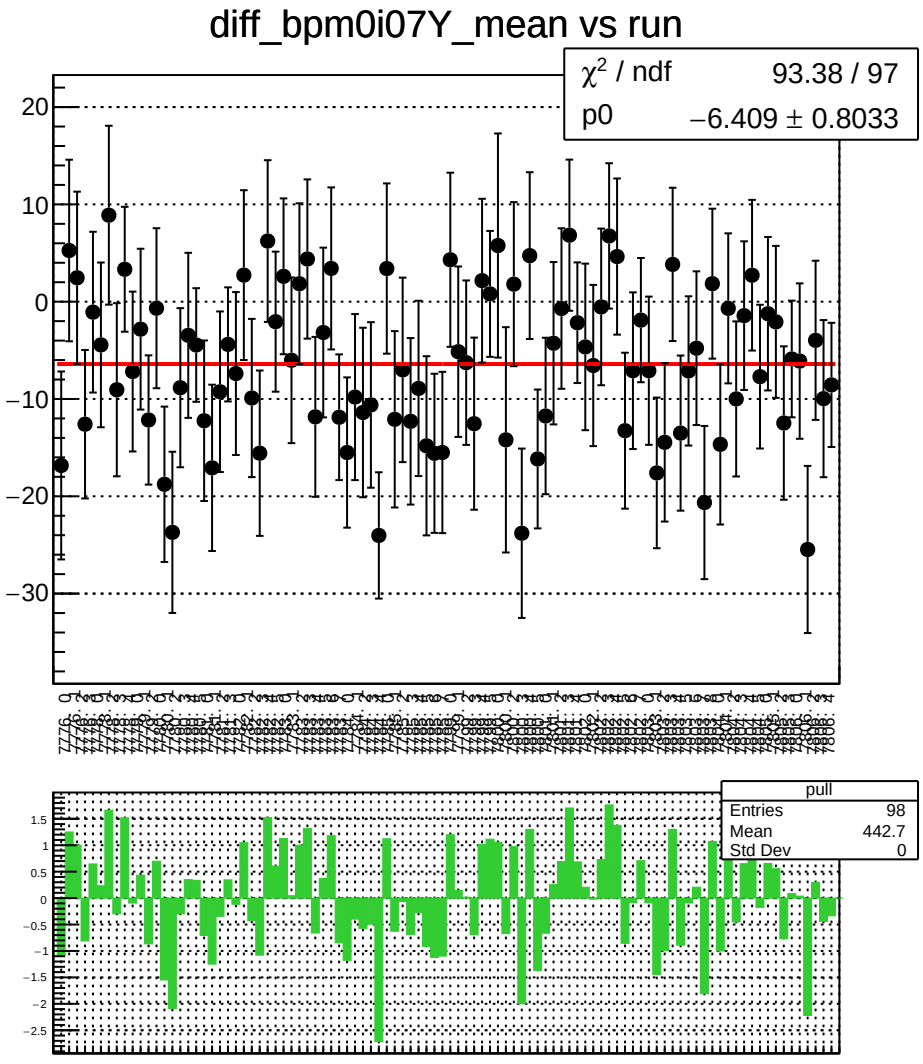

pull1D
Entries 98
Mean 0.007938
Std Dev 0.9944

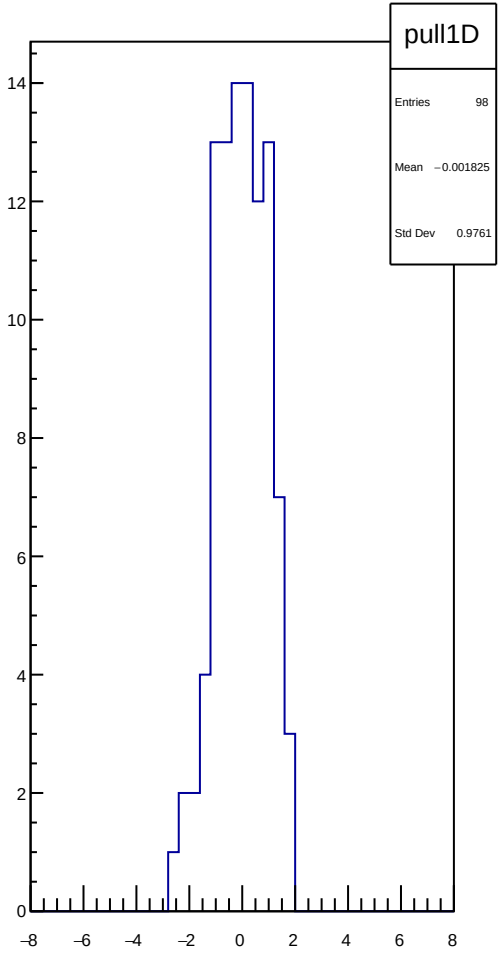

diff_bpm0i05Y_rms vs run
χ² / ndf 5254 / 97
p0 1345 ± 0.9661
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

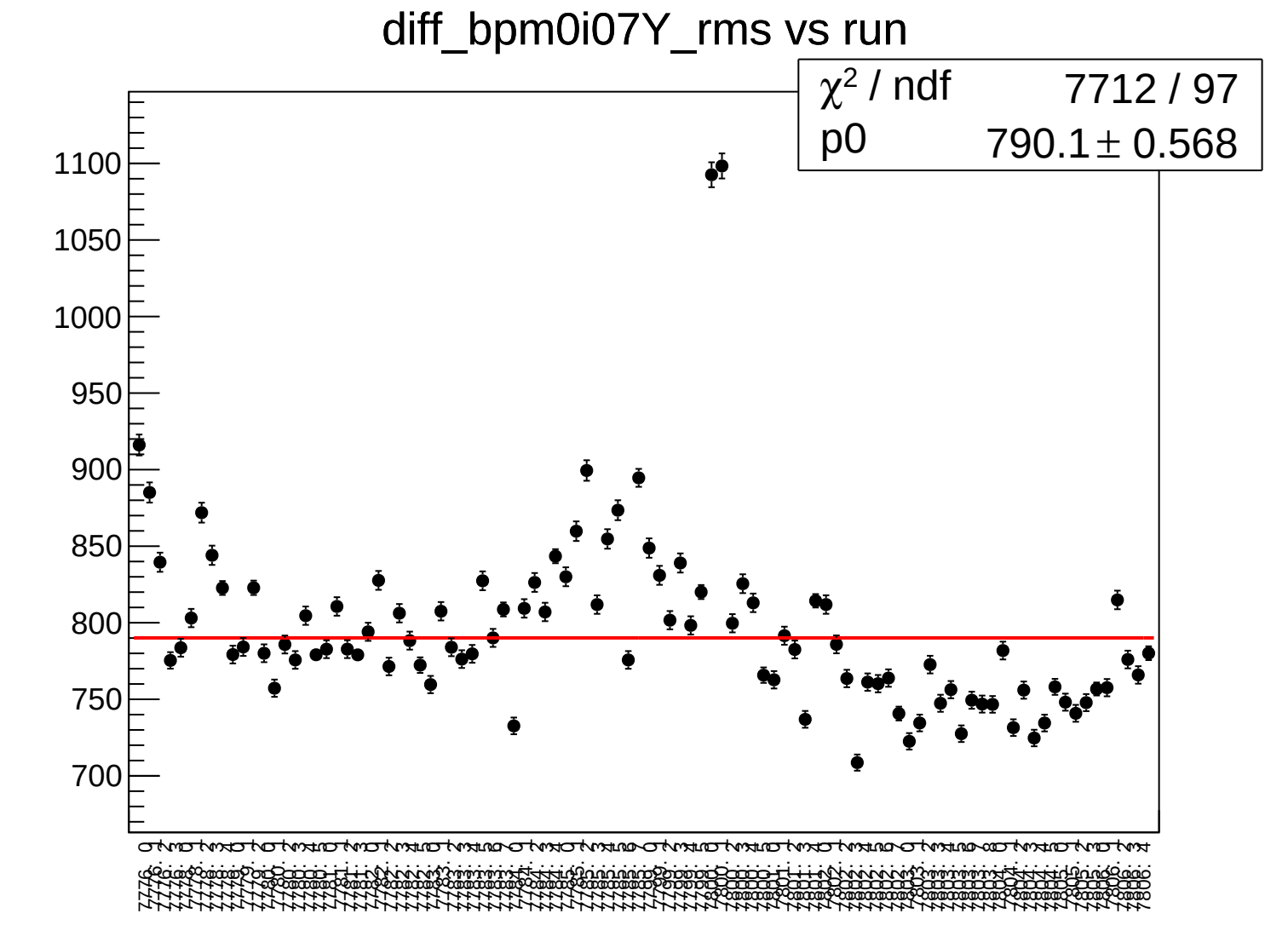

diff_bpm0i07X_mean vs run
χ² / ndf 111.3 / 97
p0 4.713 ± 2.433
100
50
0
−50
−100
pull
Entries 98
Mean 2901
Std Dev 0
2
1
0
−1
−2
−3

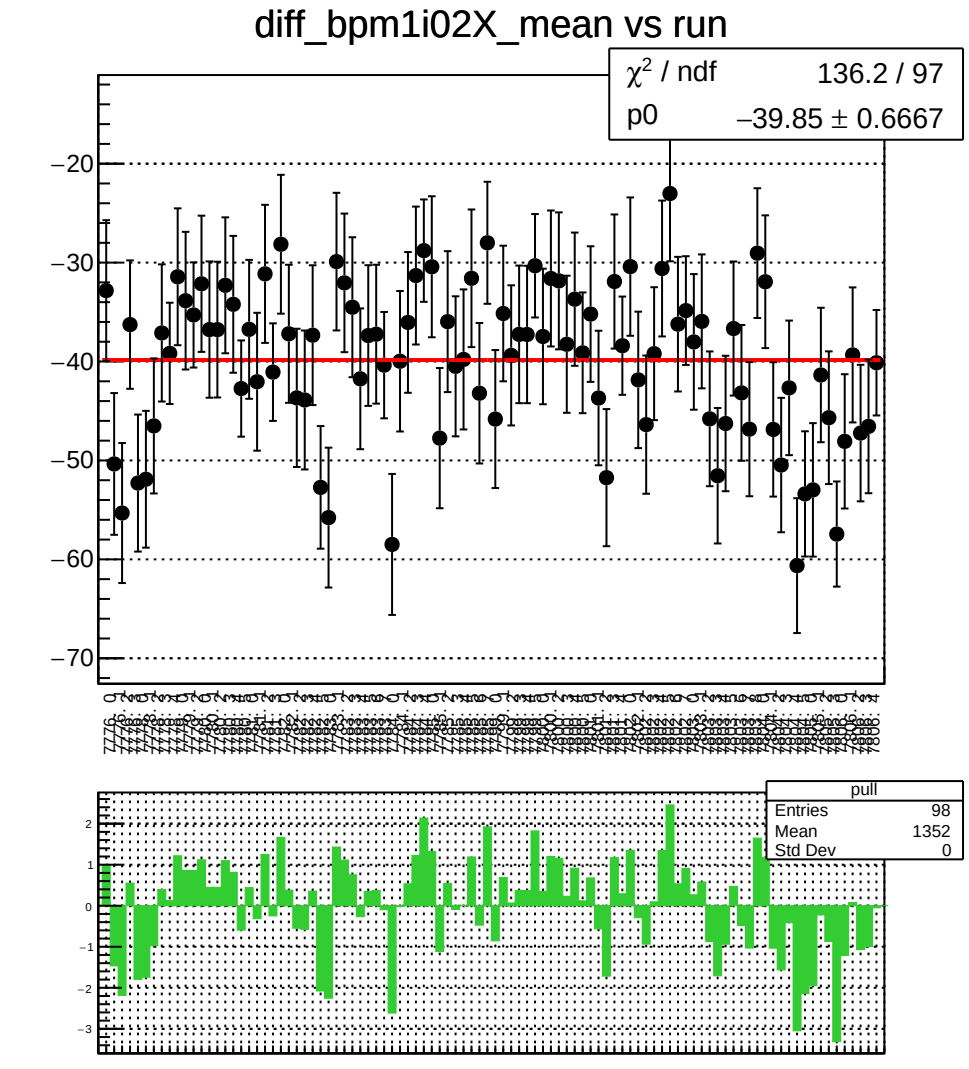

pull1D
Entries 98
Mean 0.000927
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

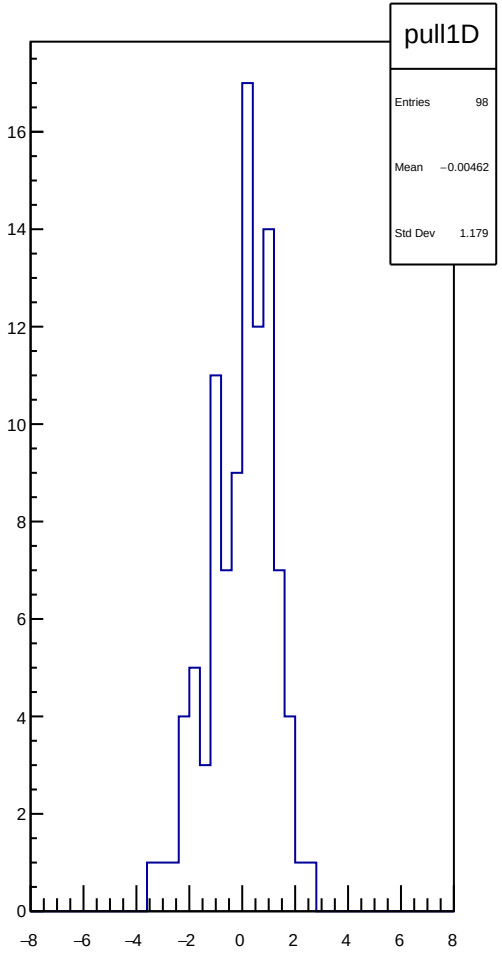

diff_bpm0i07X_rms vs run
χ² / ndf 1.799e+04 / 97
p0 2387 ± 1.72
3200
3000
2800
2600
2400
2200
2000
1800

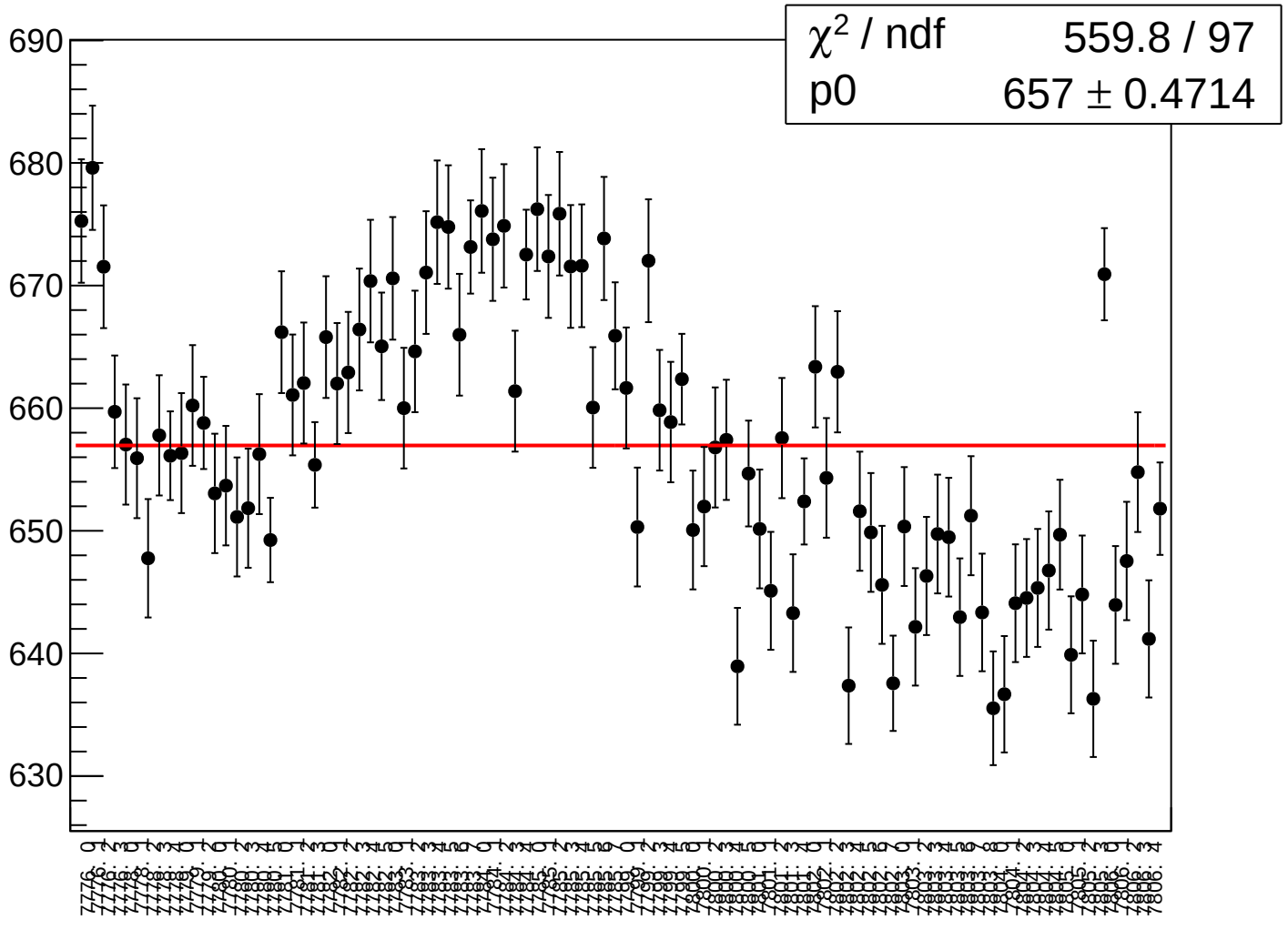

diff_bpm0i07Y_mean vs run
χ² / ndf 93.38 / 97
p0 −6.409 ± 0.8033
pull
Entries 98
Mean 442.7
Std Dev 0

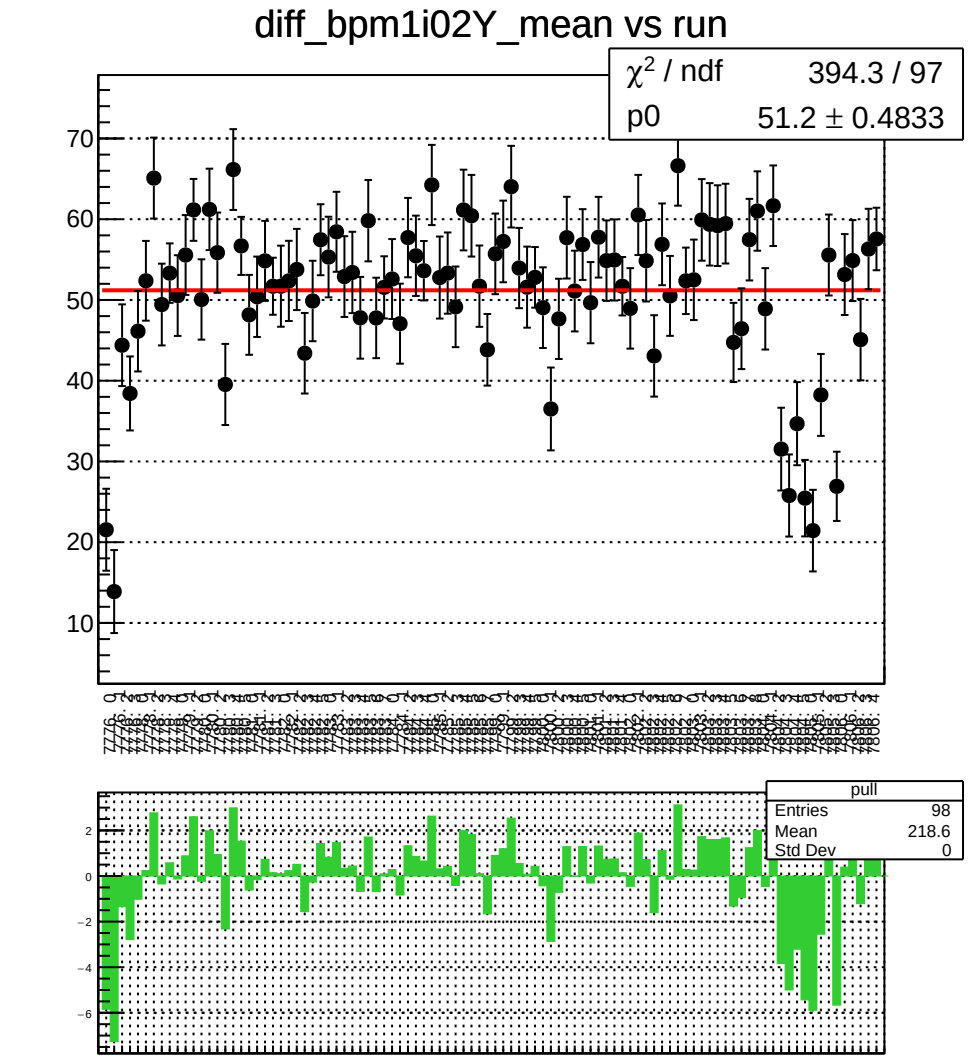

pull1D
Entries 98
Mean −0.001825
Std Dev 0.9761

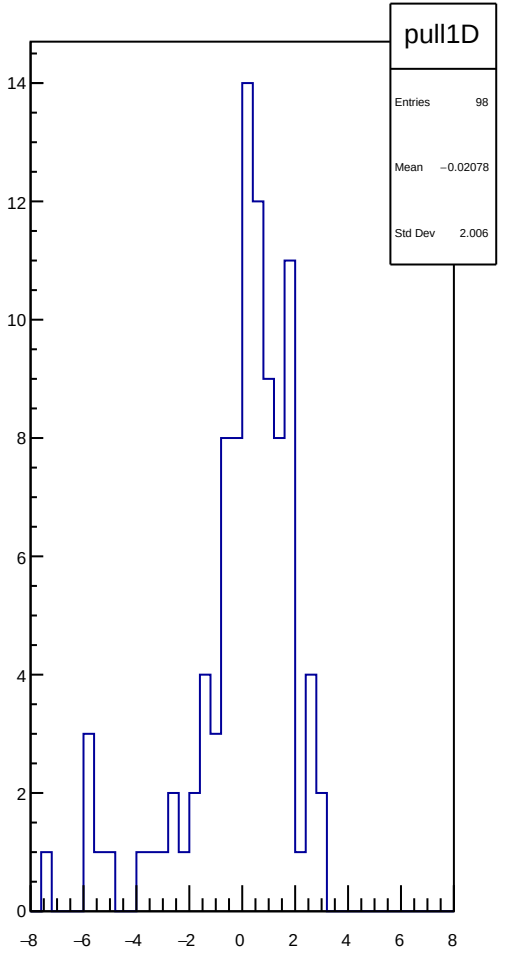

diff_bpm0i07Y_rms vs run
χ² / ndf 7712 / 97
p0 790.1 ± 0.568
1100
1050
1000
950
900
850
800
750
700

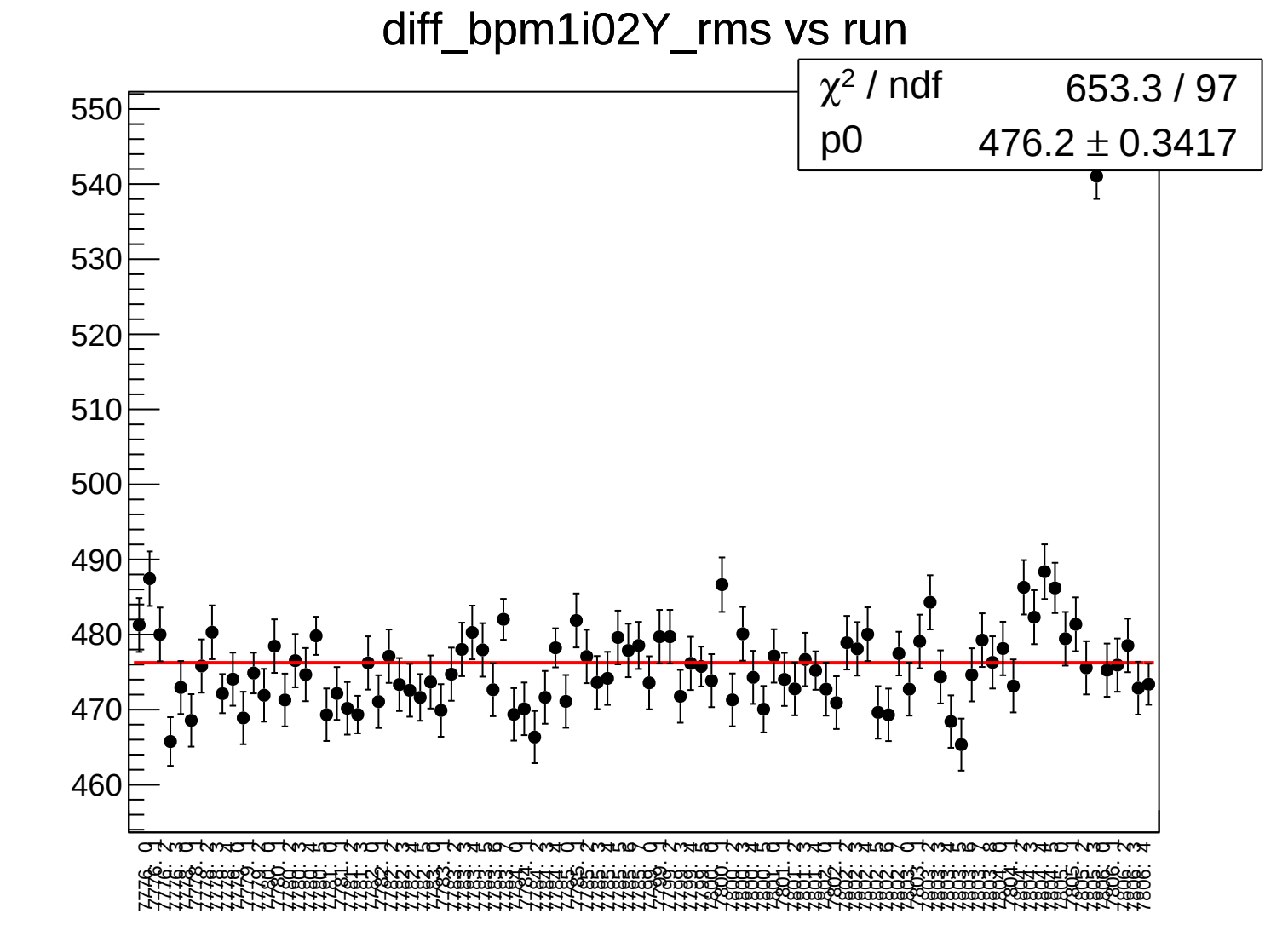

diff_bpm1i02X_mean vs run
χ² / ndf 136.2 / 97
p0 −39.85 ± 0.6667
pull
Entries 98
Mean 1352
Std Dev 0

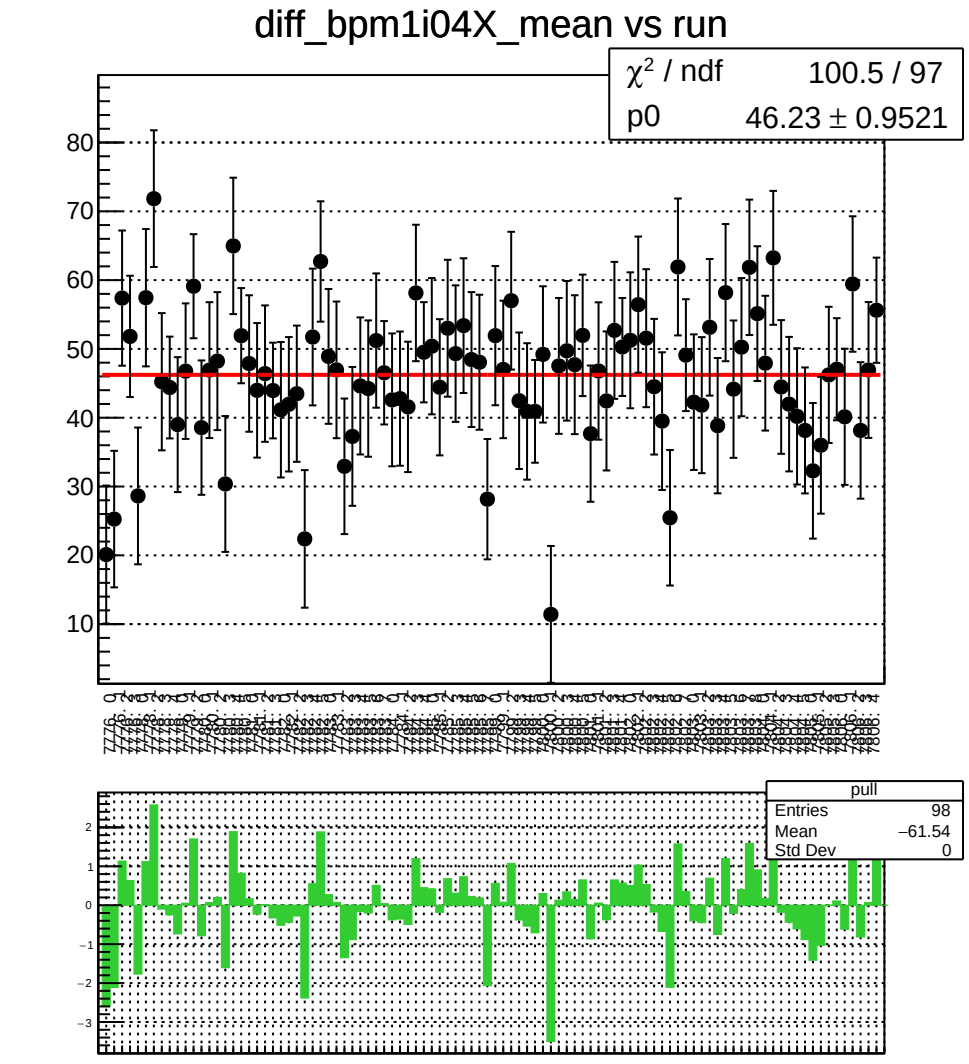

pull1D
Entries 98
Mean −0.00462
Std Dev 1.179

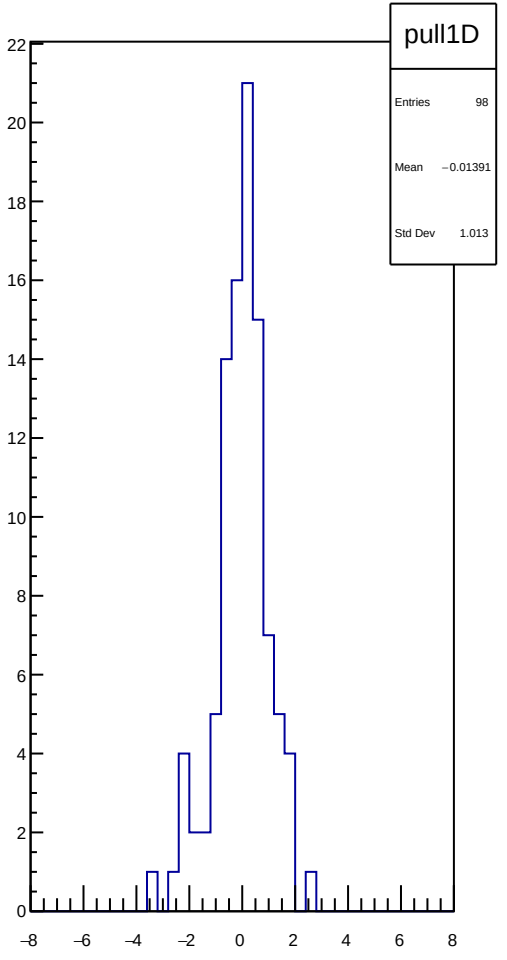

diff_bpm1i02X_rms vs run
χ² / ndf 559.8 / 97
p0 657 ± 0.4714
690
680
670
660
650
640
630

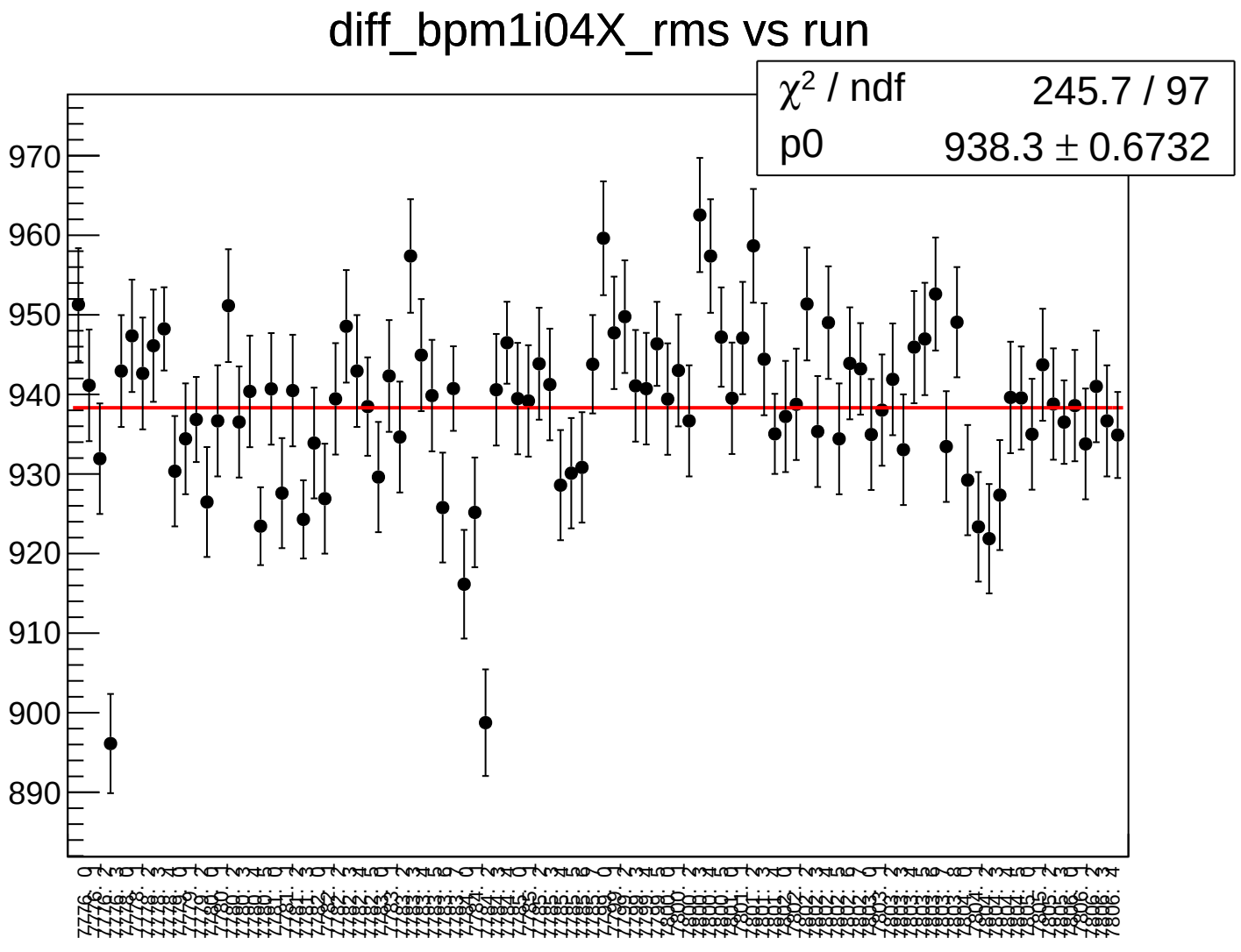

diff_bpm1i02Y_mean vs run
χ^2 / ndf 394.3 / 97
p0 51.2 ± 0.4833
70
60
50
40
30
20
10
pull
Entries 98
Mean 218.6
Std Dev 0
2
0
−2
−4
−6

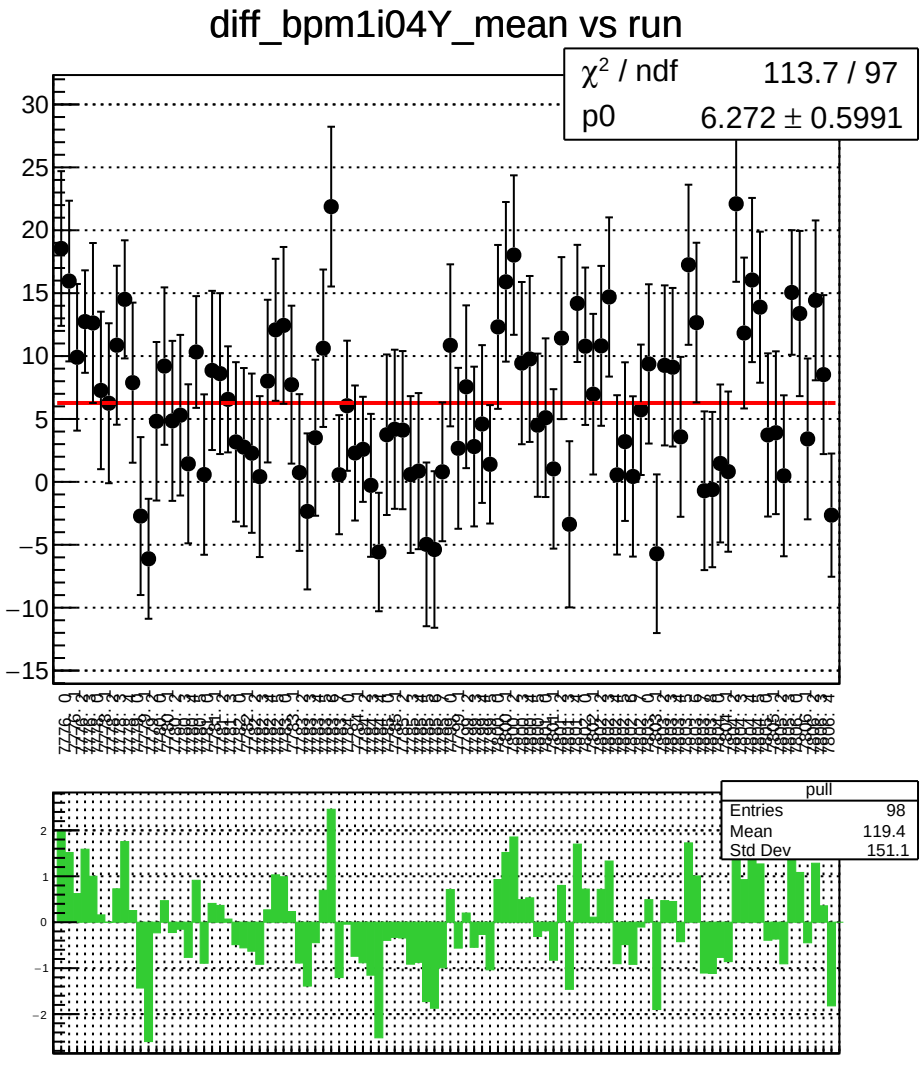

pull1D
Entries 98
Mean −0.02078
Std Dev 2.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

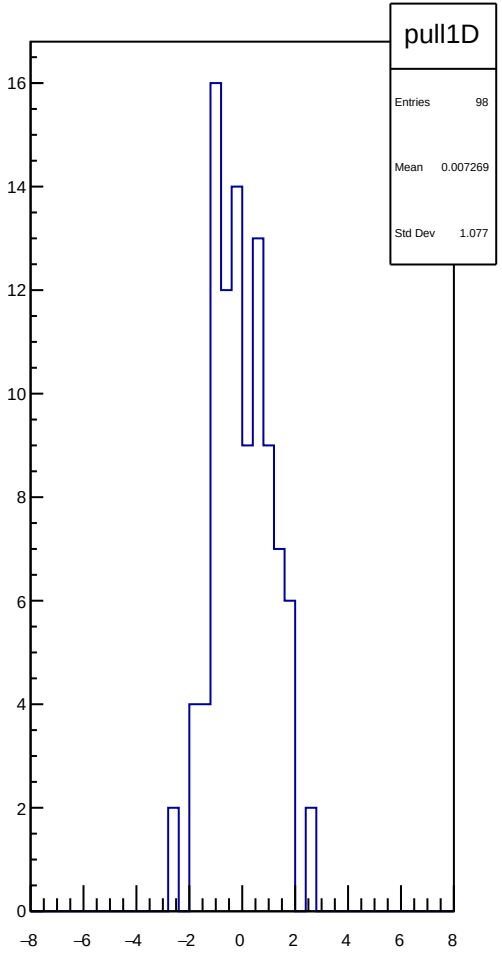

diff_bpm1i02Y_rms vs run
χ² / ndf 653.3 / 97
p0 476.2 ± 0.3417
550
540
530
520
510
500
490
480
470
460

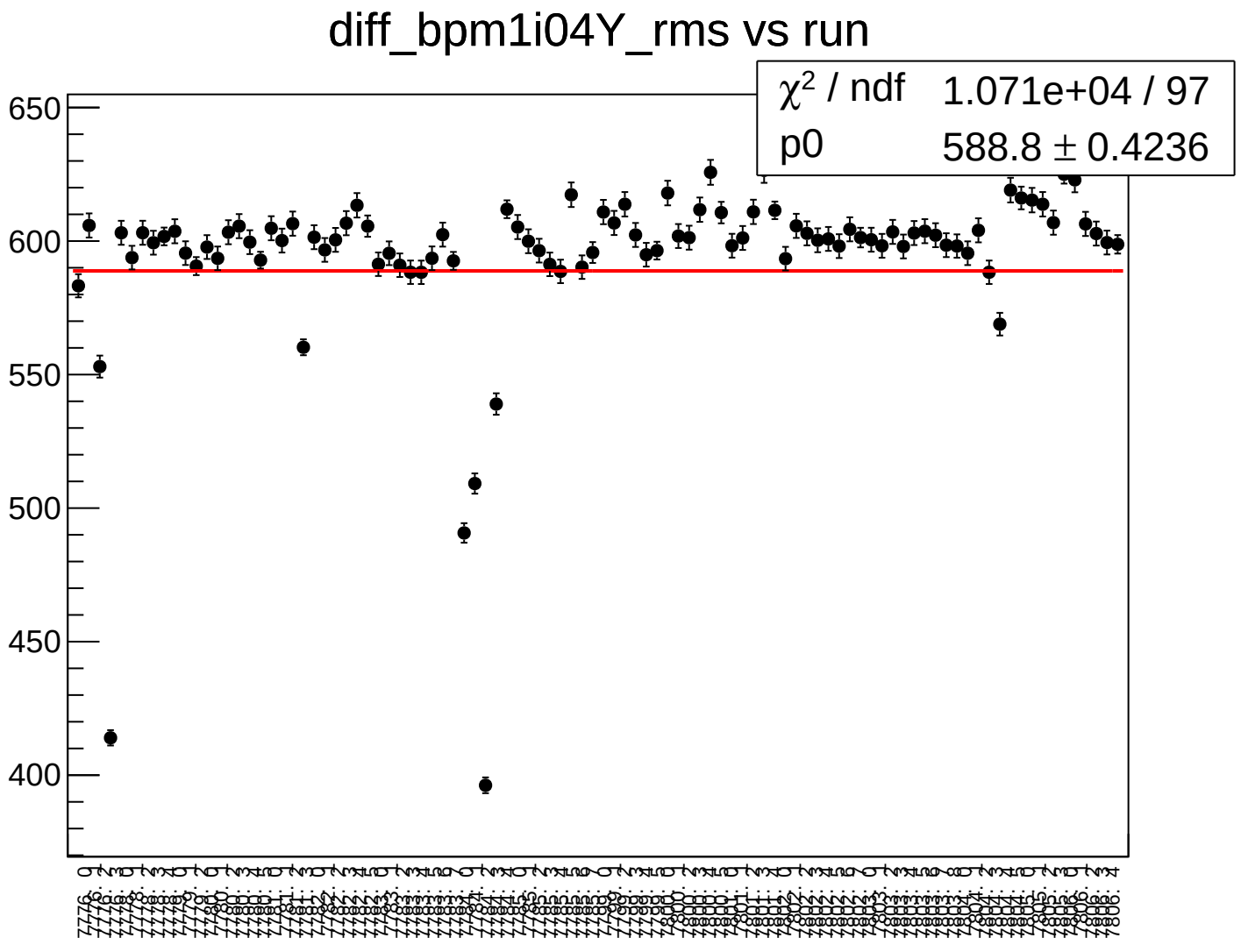

diff_bpm1i04X_mean vs run
χ² / ndf 100.5 / 97
p0 46.23 ± 0.9521
pull
Entries 98
Mean −61.54
Std Dev 0

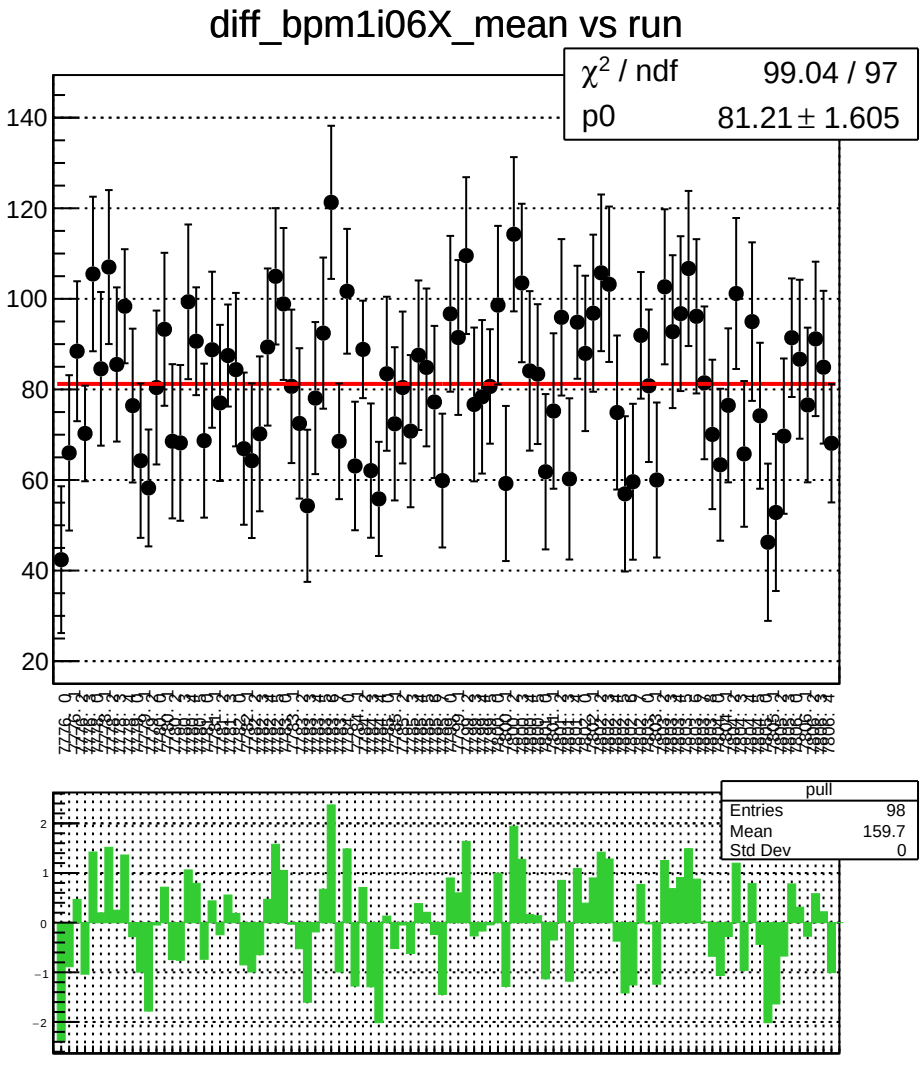

pull1D
Entries 98
Mean −0.01391
Std Dev 1.013

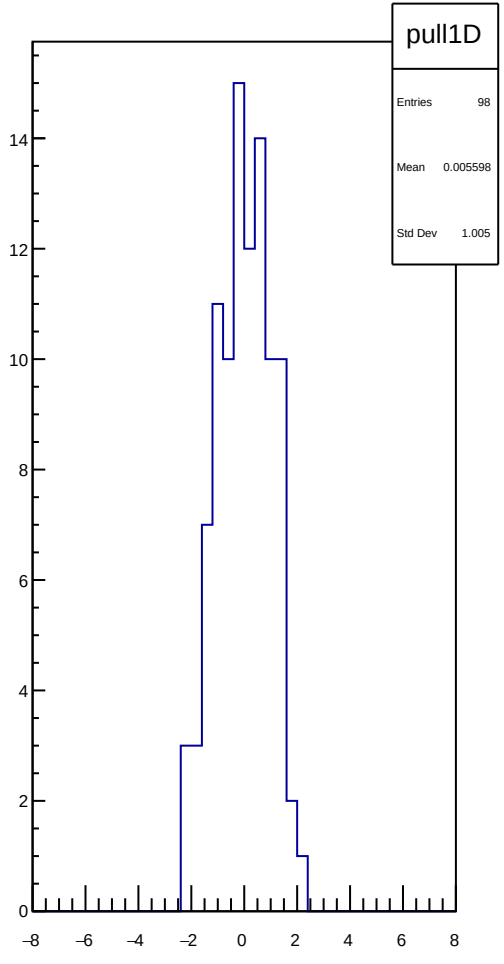

diff_bpm1i04X_rms vs run
χ² / ndf 245.7 / 97
p0 938.3 ± 0.6732
970
960
950
940
930
920
910
900
890

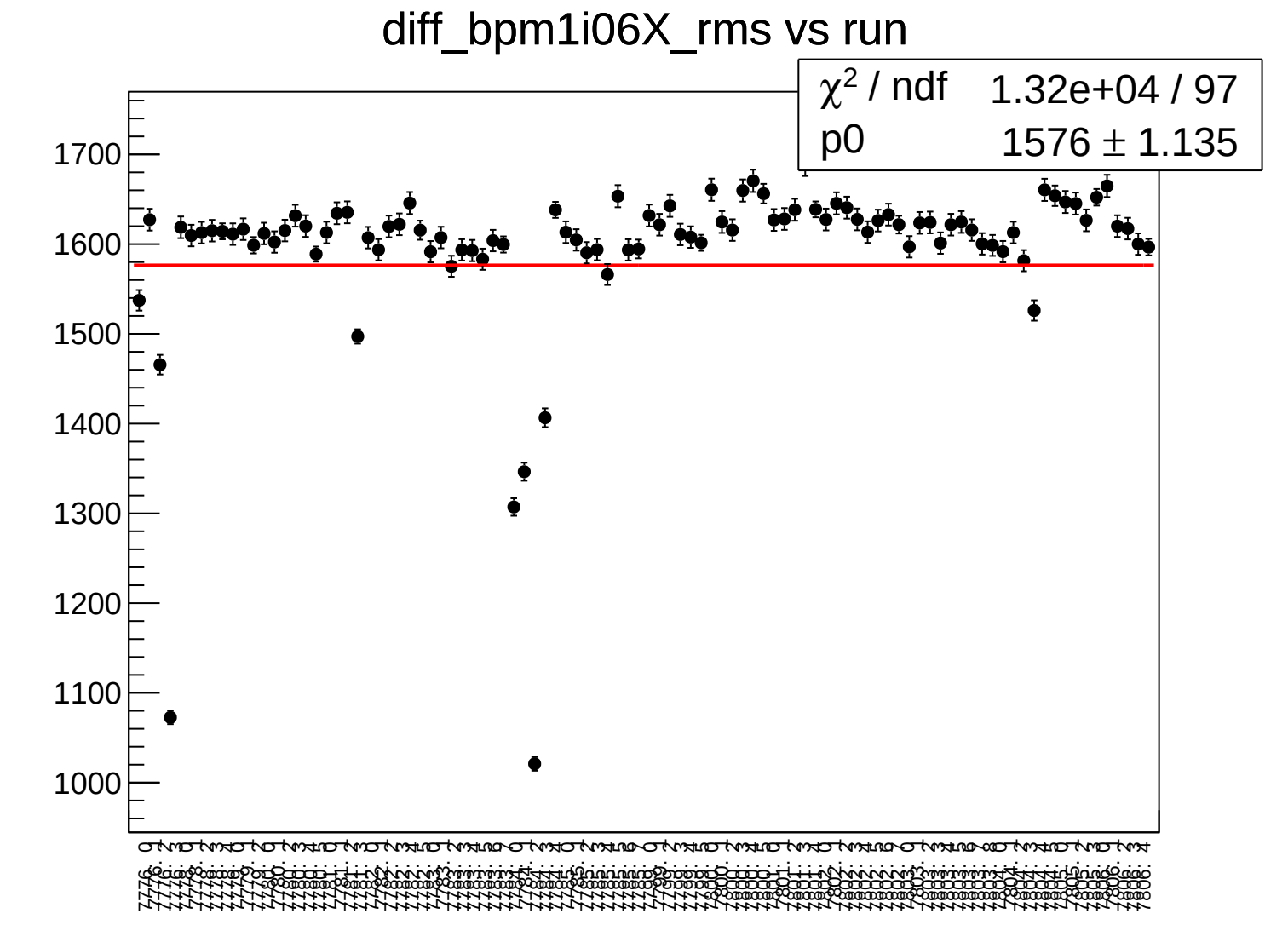

diff_bpm1i04Y_mean vs run
χ^2 / ndf 113.7 / 97
p0 6.272 ± 0.5991
pull
Entries 98
Mean 119.4
Std Dev 151.1

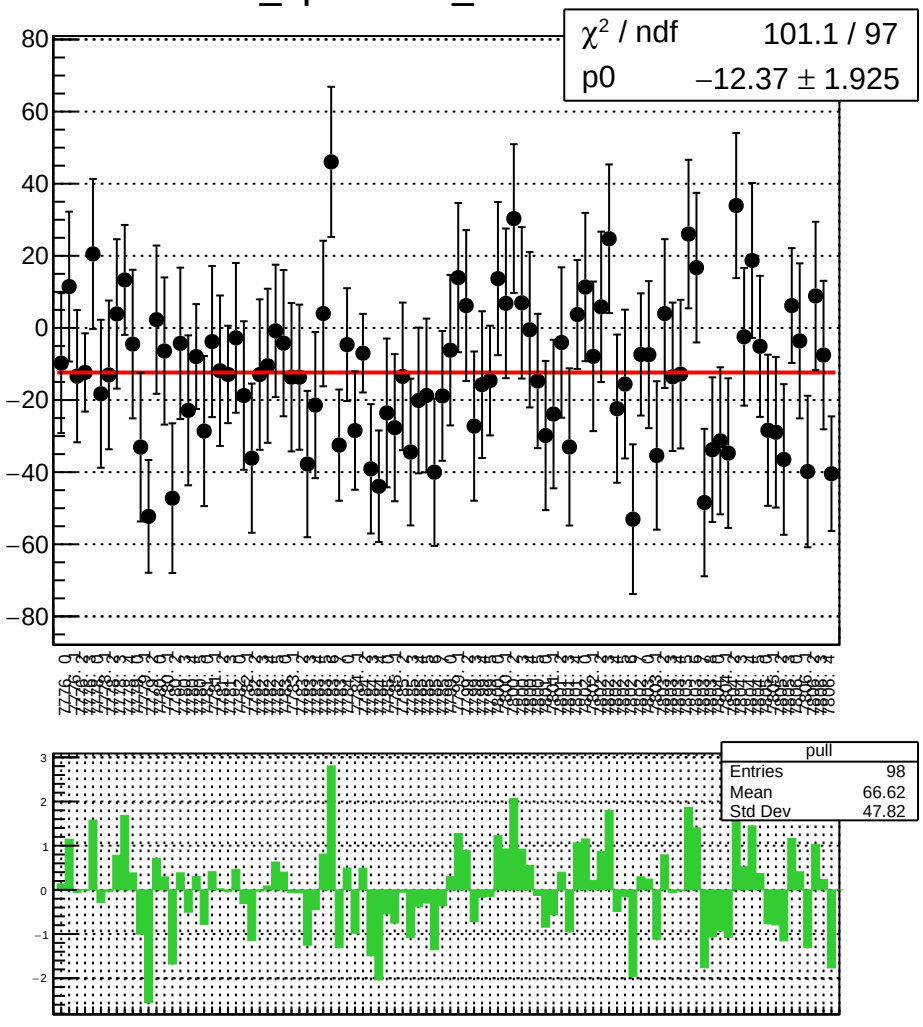

pull1D
Entries 98
Mean 0.007269
Std Dev 1.077

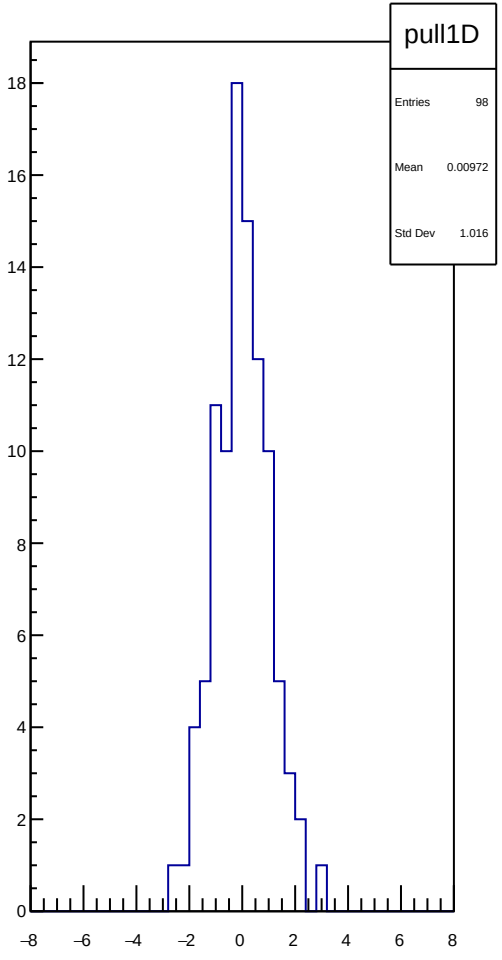

diff_bpm1i04Y_rms vs run
χ² / ndf 1.071e+04 / 97
p0 588.8 ± 0.4236
650
600
550
500
450
400

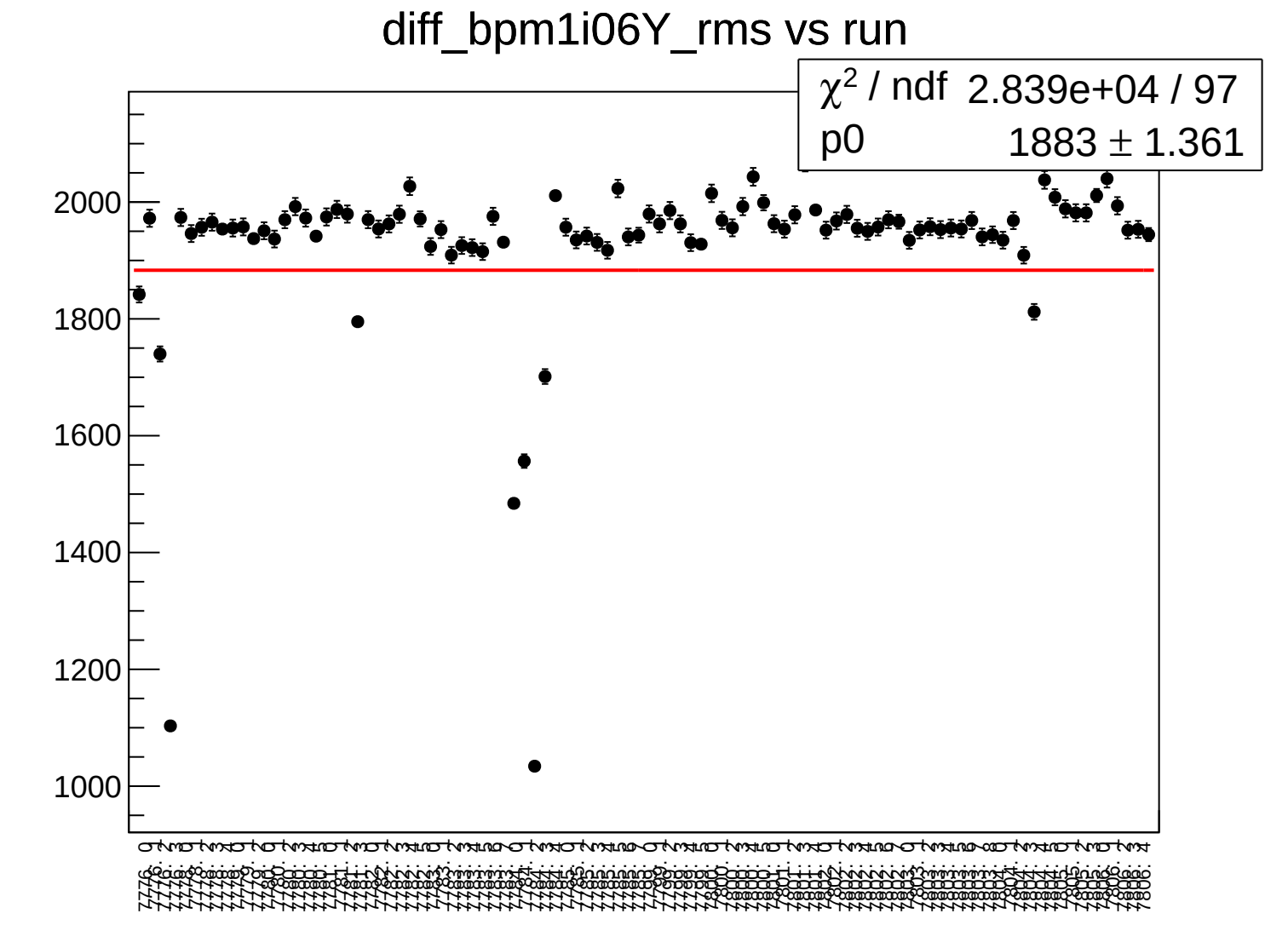

diff_bpm1i06X_mean vs run
χ^2 / ndf 99.04 / 97
p0 81.21 ± 1.605
140
120
100
80
60
40
20
pull
Entries 98
Mean 159.7
Std Dev 0
2
1
0
−1
−2

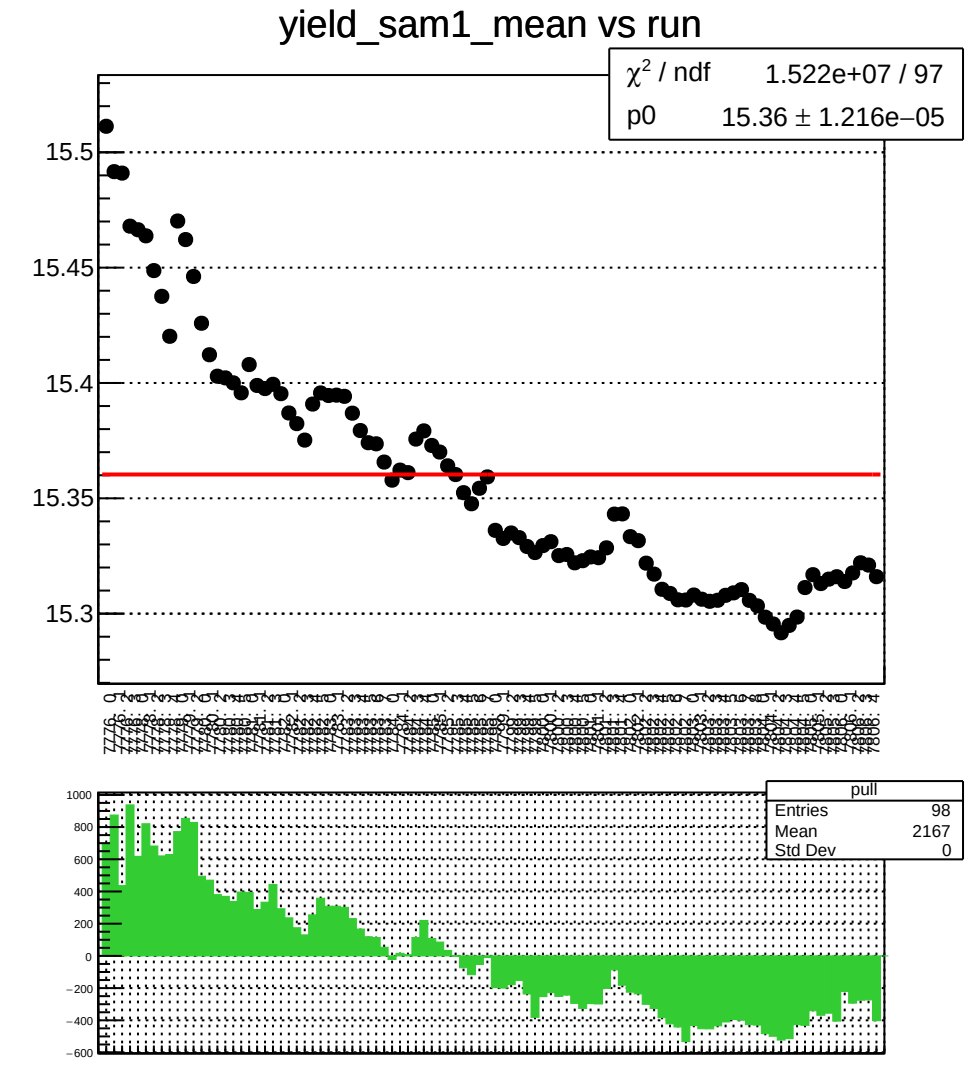

pull1D
Entries 98
Mean 0.005598
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

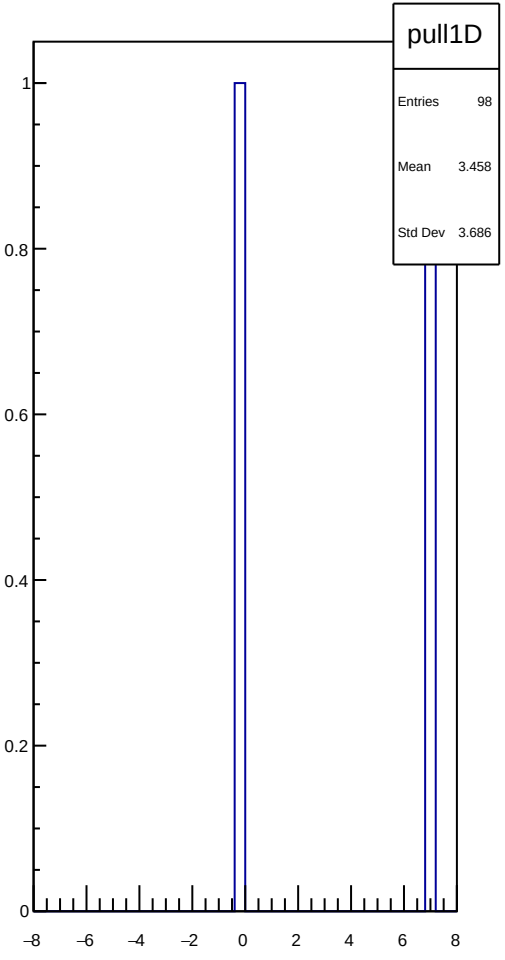

diff_bpm1i06X_rms vs run
χ² / ndf 1.32e+04 / 97
p0 1576 ± 1.135
1700
1600
1500
1400
1300
1200
1100
1000

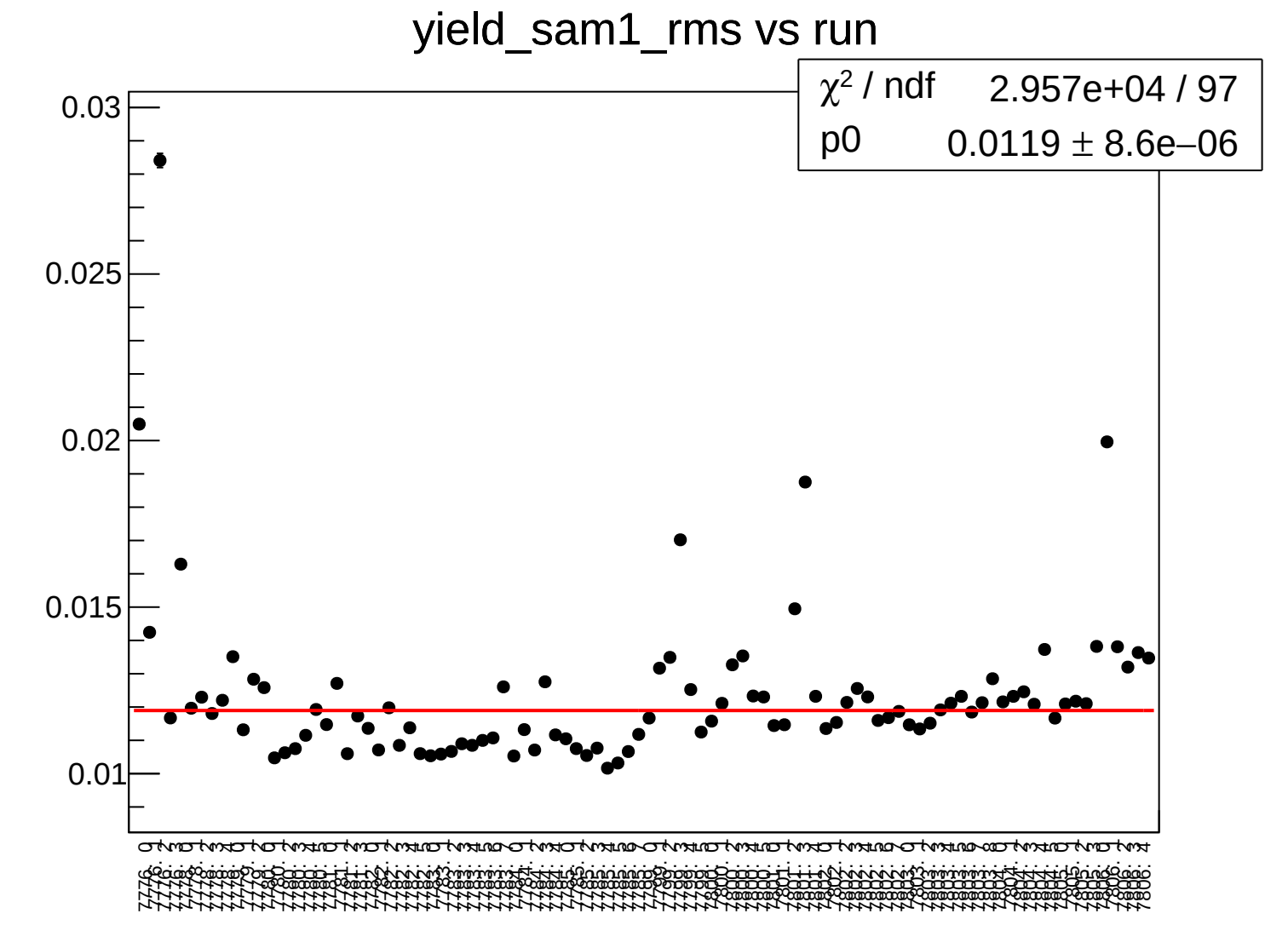

diff_bpm1i06Y_mean vs run
χ² / ndf 101.1 / 97
p0 −12.37 ± 1.925
pull
Entries 98
Mean 66.62
Std Dev 47.82

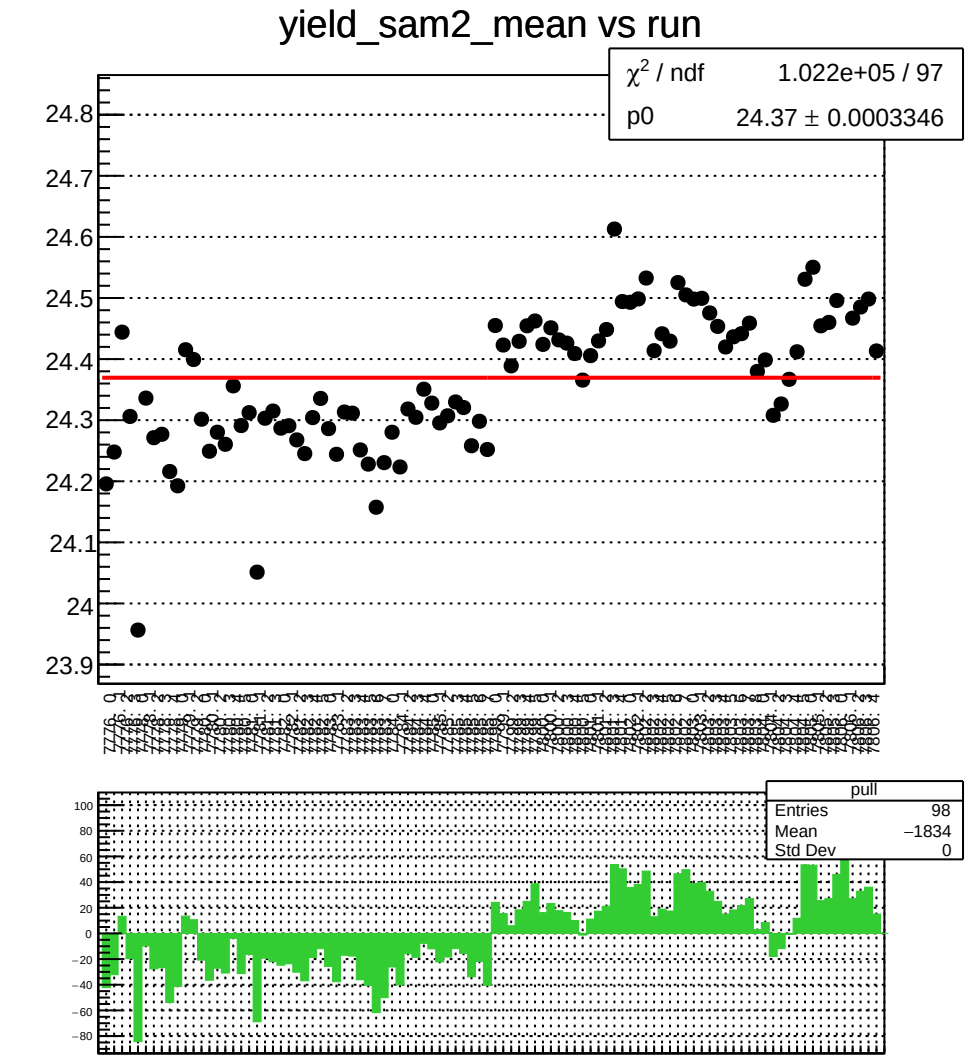

pull1D
Entries 98
Mean 0.00972
Std Dev 1.016

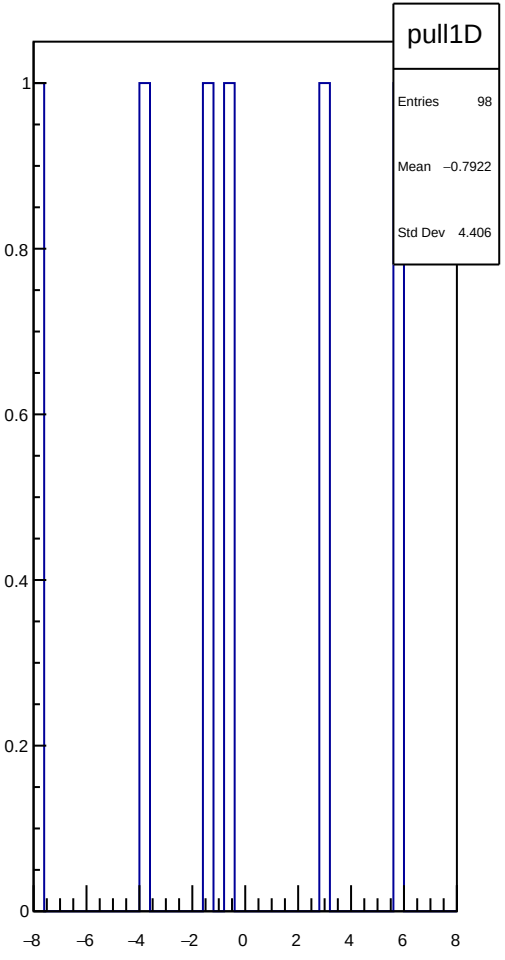

diff_bpm1i06Y_rms vs run
χ² / ndf 2.839e+04 / 97
p0 1883 ± 1.361
2000
1800
1600
1400
1200
1000

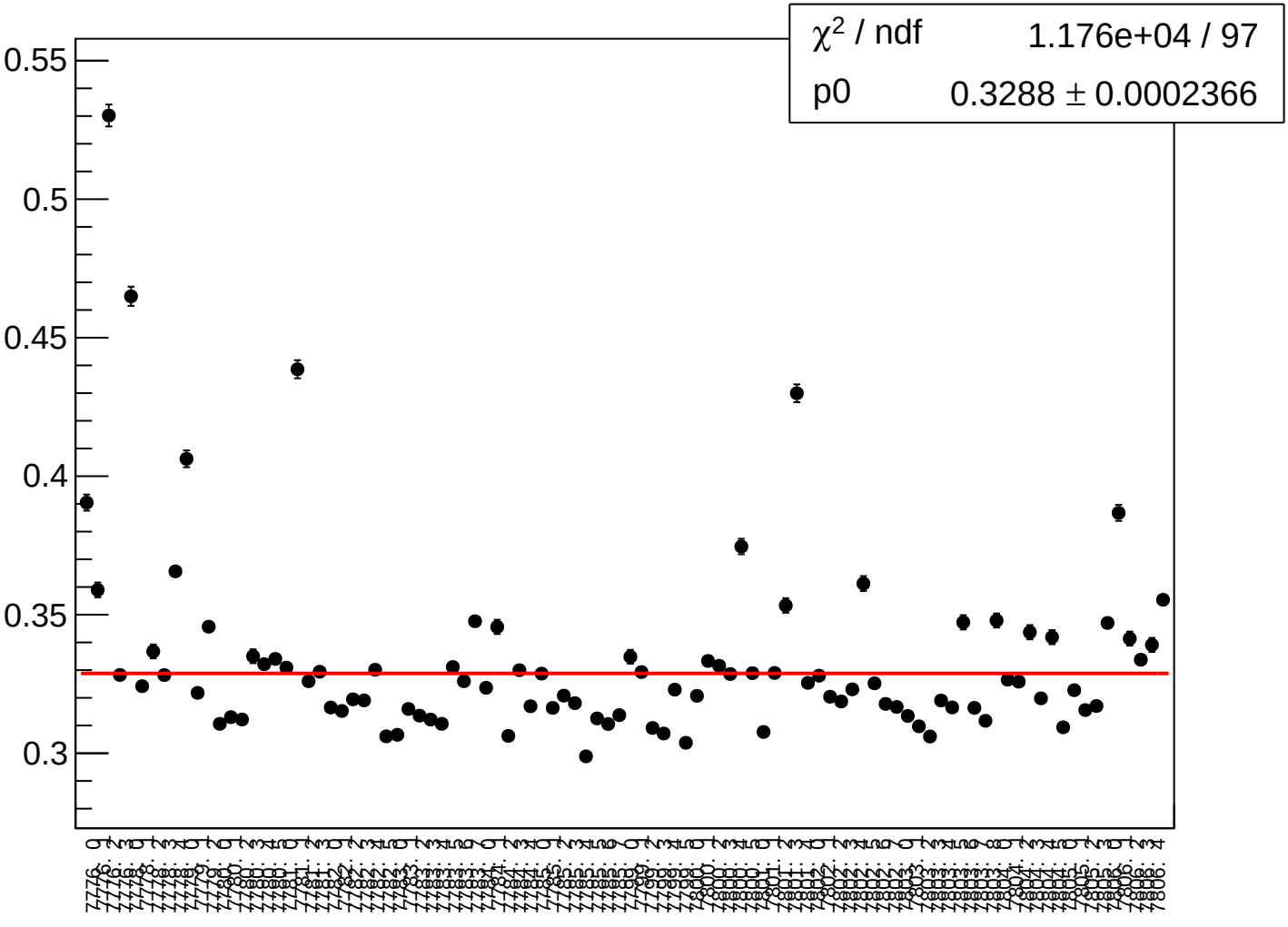

yield_sam1_mean vs run
χ² / ndf 1.522e+07 / 97
p0 15.36 ± 1.216e−05
15.5
15.45
15.4
15.35
15.3
pull
Entries 98
Mean 2167
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

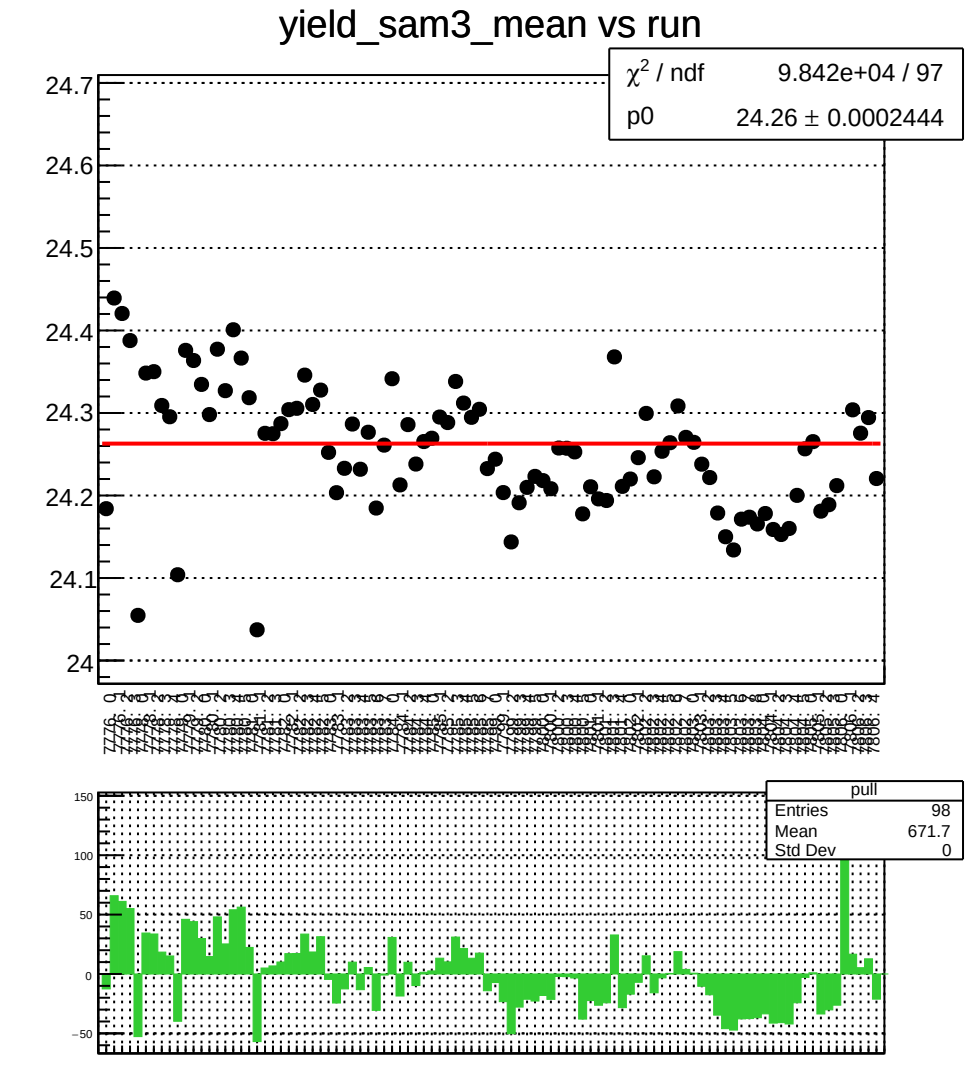

pull1D
Entries 98
Mean 3.458
Std Dev 3.686
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

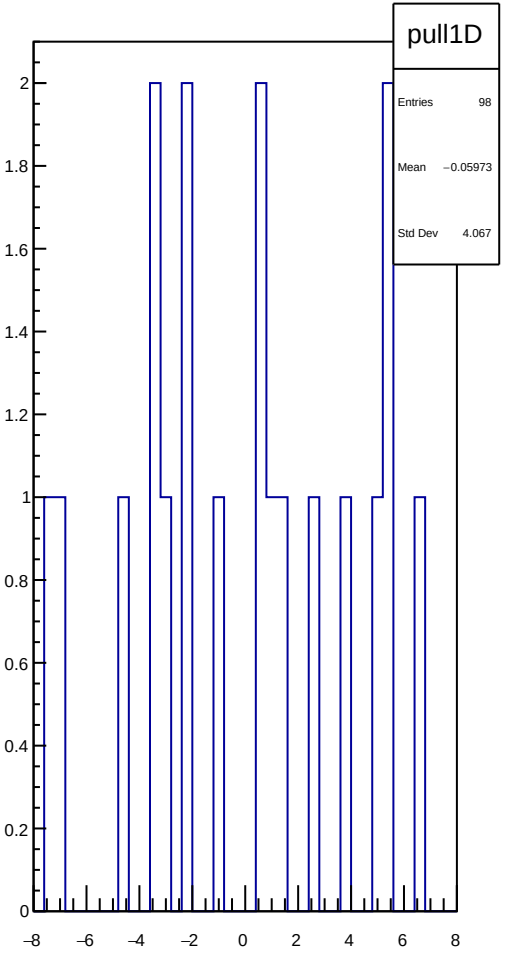

yield_sam1_rms vs run
χ² / ndf 2.957e+04 / 97
p0 0.0119 ± 8.6e−06
0.03
0.025
0.02
0.015
0.01

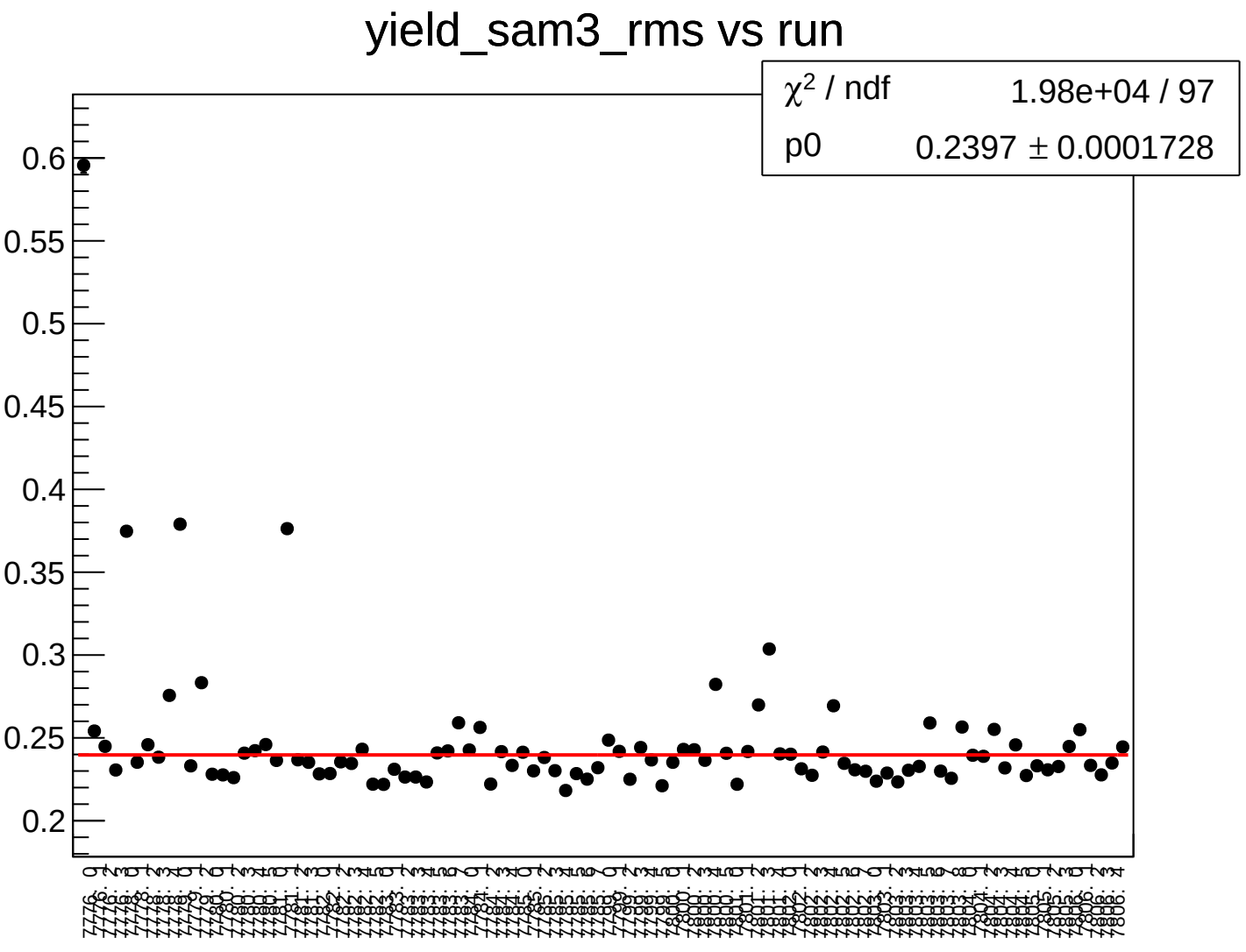

yield_sam2_mean vs run
χ² / ndf 1.022e+05 / 97
p0 24.37 ± 0.0003346
24.8
24.7
24.6
24.5
24.4
24.3
24.2
24.1
24
23.9
pull
Entries 98
Mean −1834
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

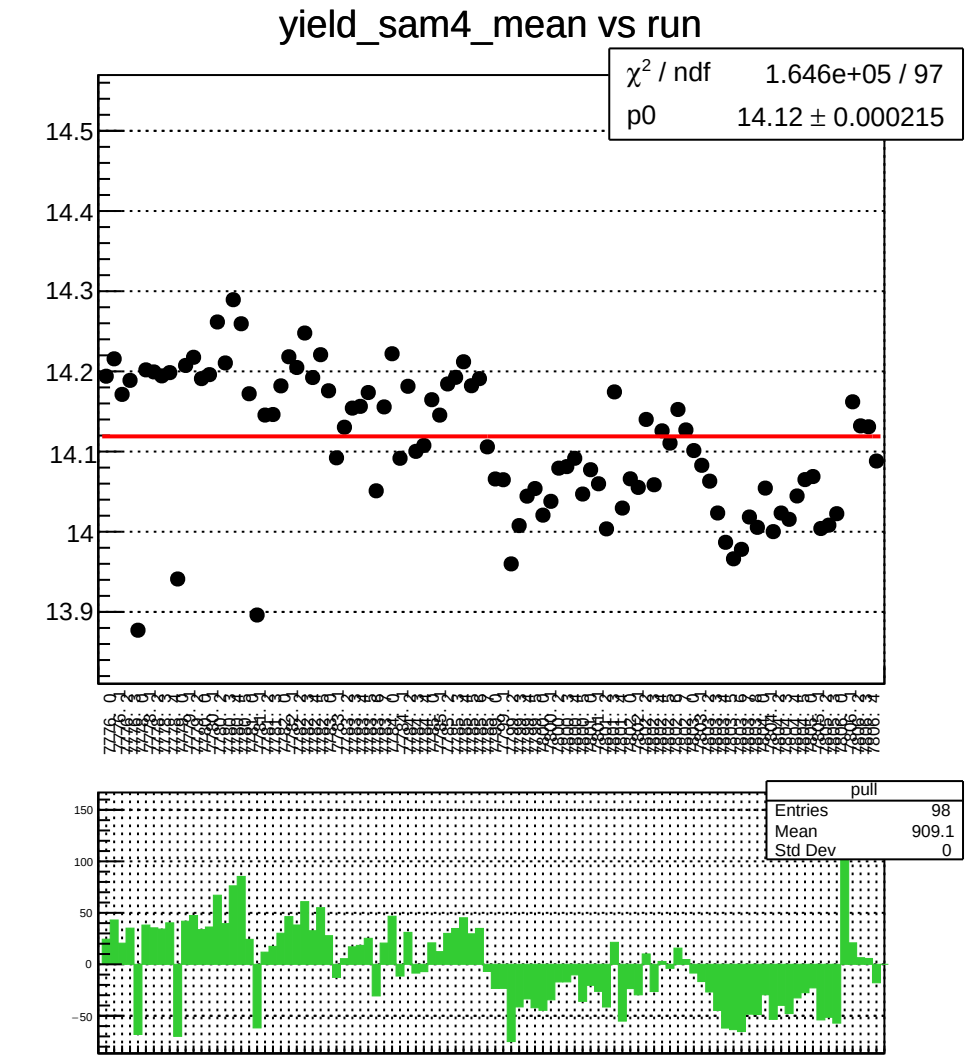

pull1D
Entries 98
Mean −0.7922
Std Dev 4.406
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

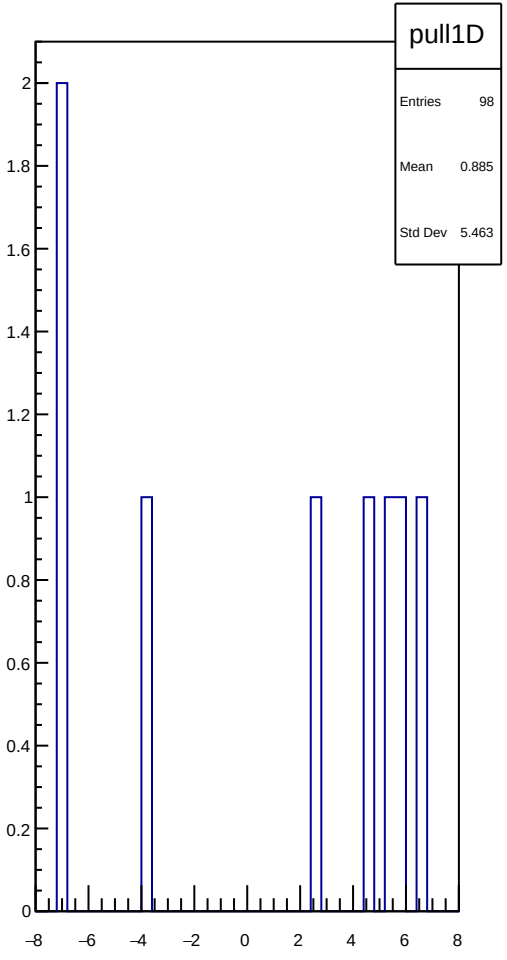

yield_sam2_rms vs run
χ² / ndf 1.176e+04 / 97
p0 0.3288 ± 0.0002366
0.55
0.5
0.45
0.4
0.35
0.3

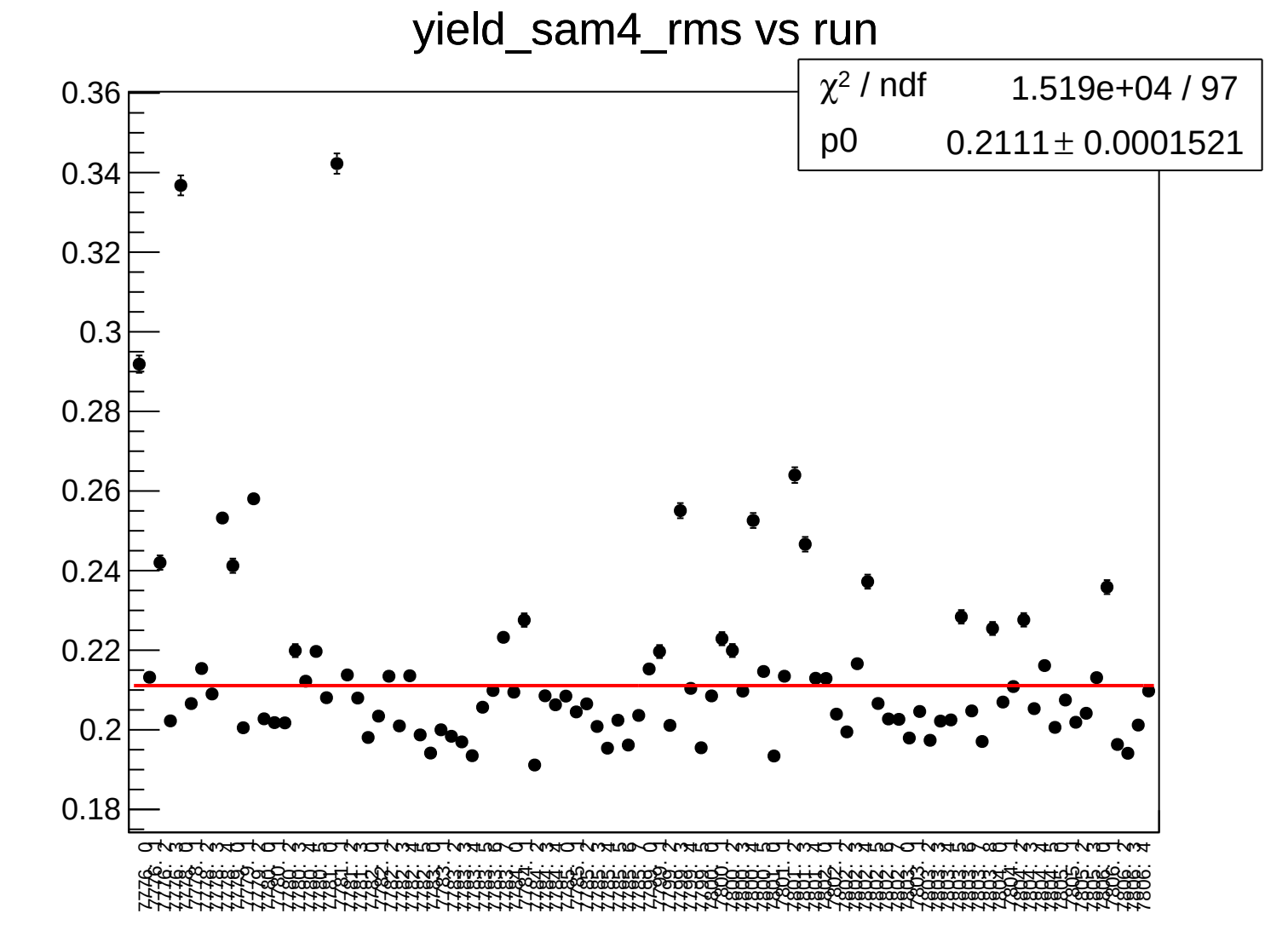

yield_sam3_mean vs run
χ² / ndf 9.842e+04 / 97
p0 24.26 ± 0.0002444
24.7
24.6
24.5
24.4
24.3
24.2
24.1
24
pull
Entries 98
Mean 671.7
Std Dev 0
150
100
50
0
−50

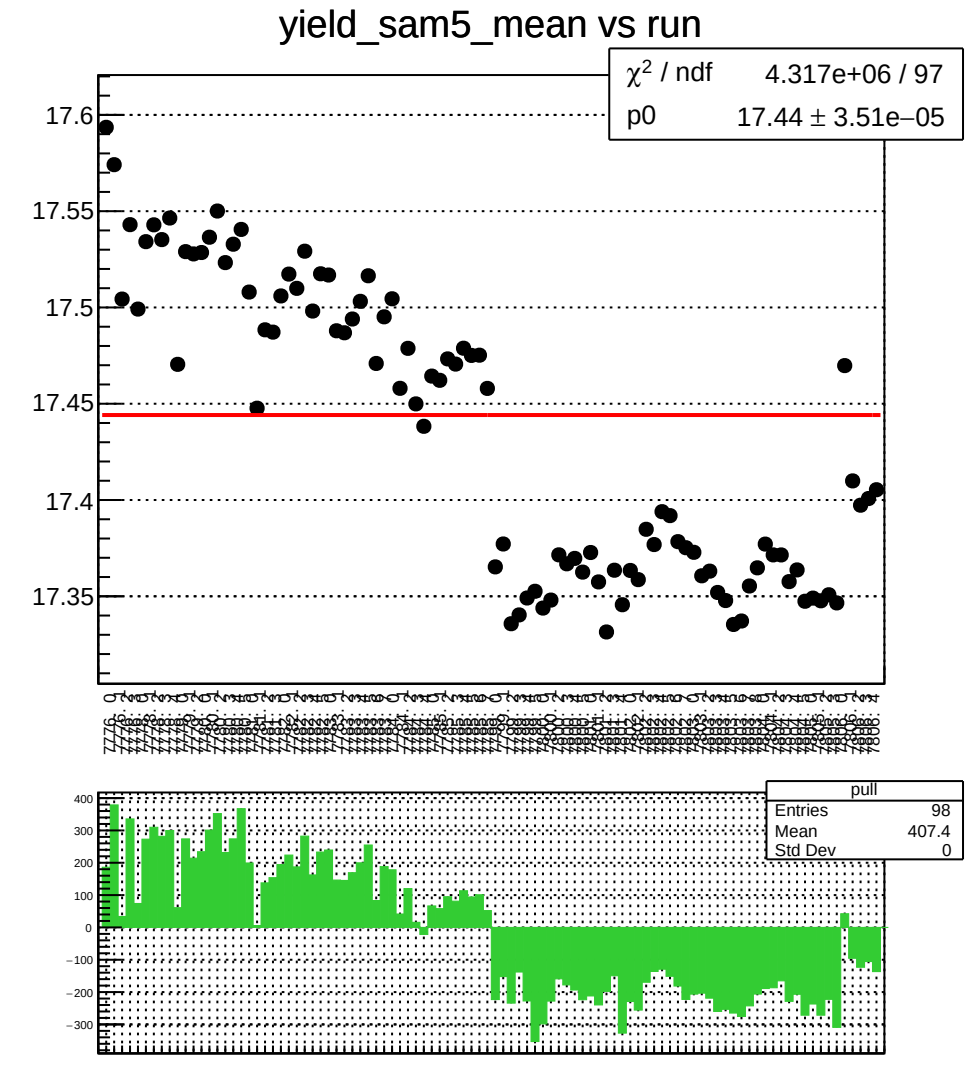

pull1D
Entries 98
Mean −0.05973
Std Dev 4.067
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

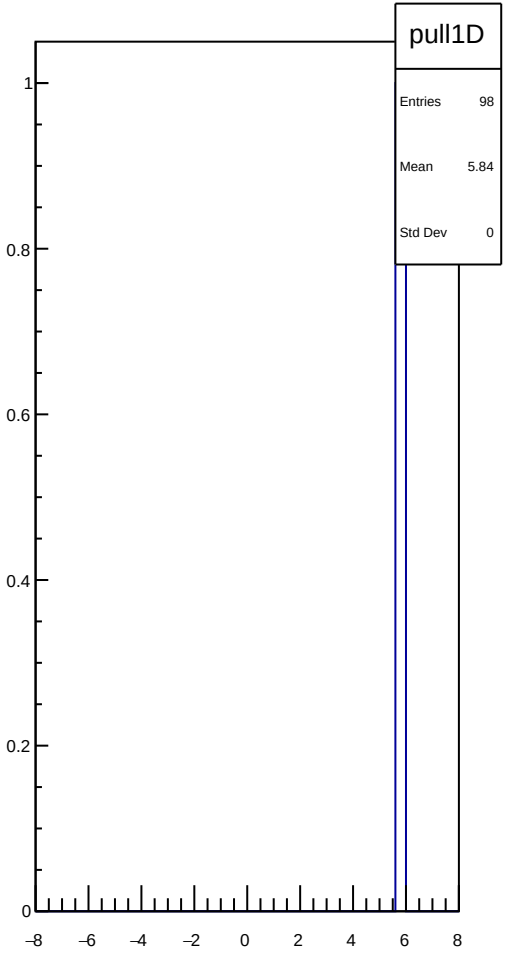

yield_sam3_rms vs run
χ² / ndf 1.98e+04 / 97
p0 0.2397 ± 0.0001728
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

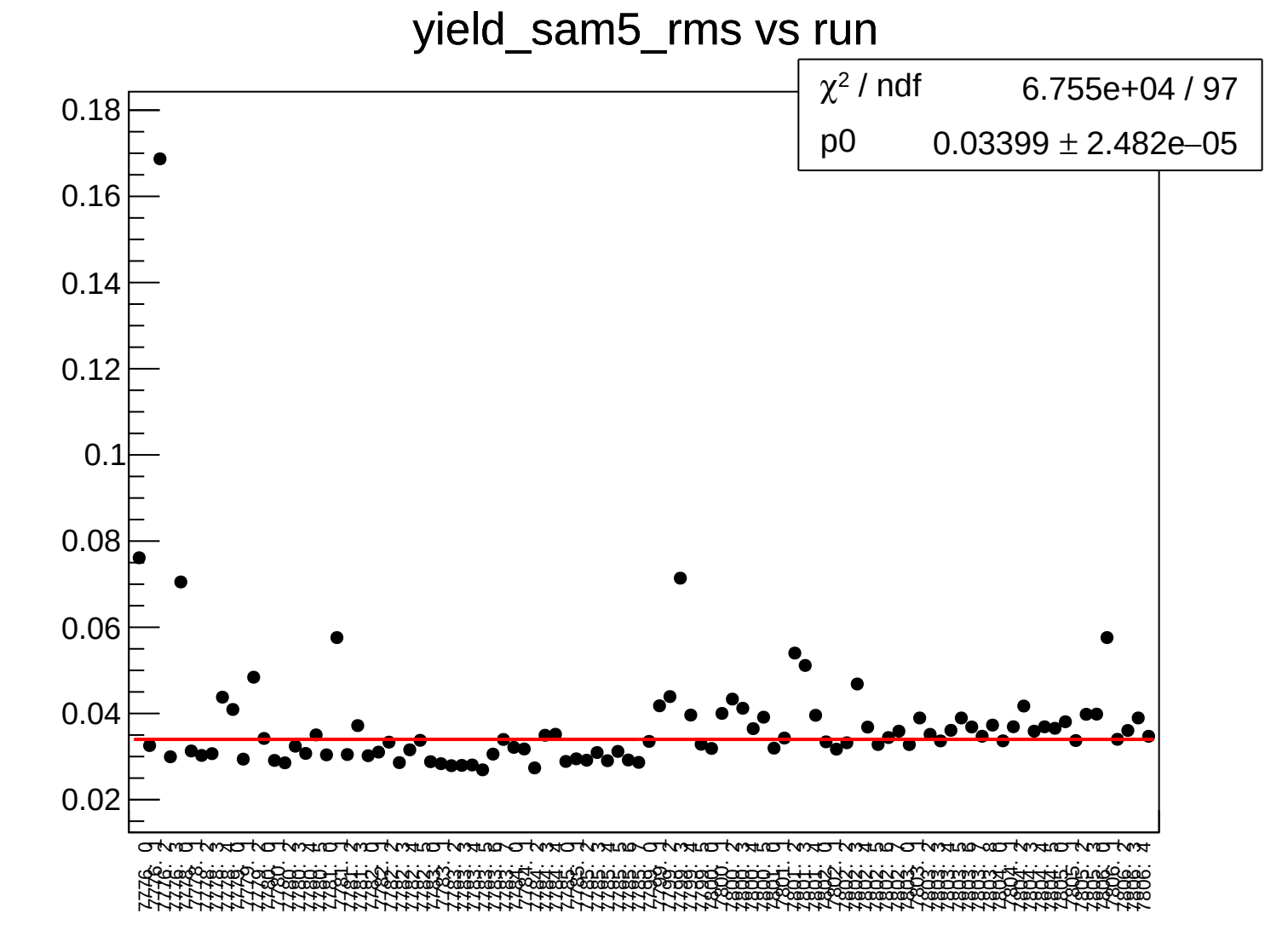

yield_sam4_mean vs run
χ² / ndf 1.646e+05 / 97
p0 14.12 ± 0.000215
14.5
14.4
14.3
14.2
14.1
14
13.9
pull
Entries 98
Mean 909.1
Std Dev 0
150
100
50
0
−50

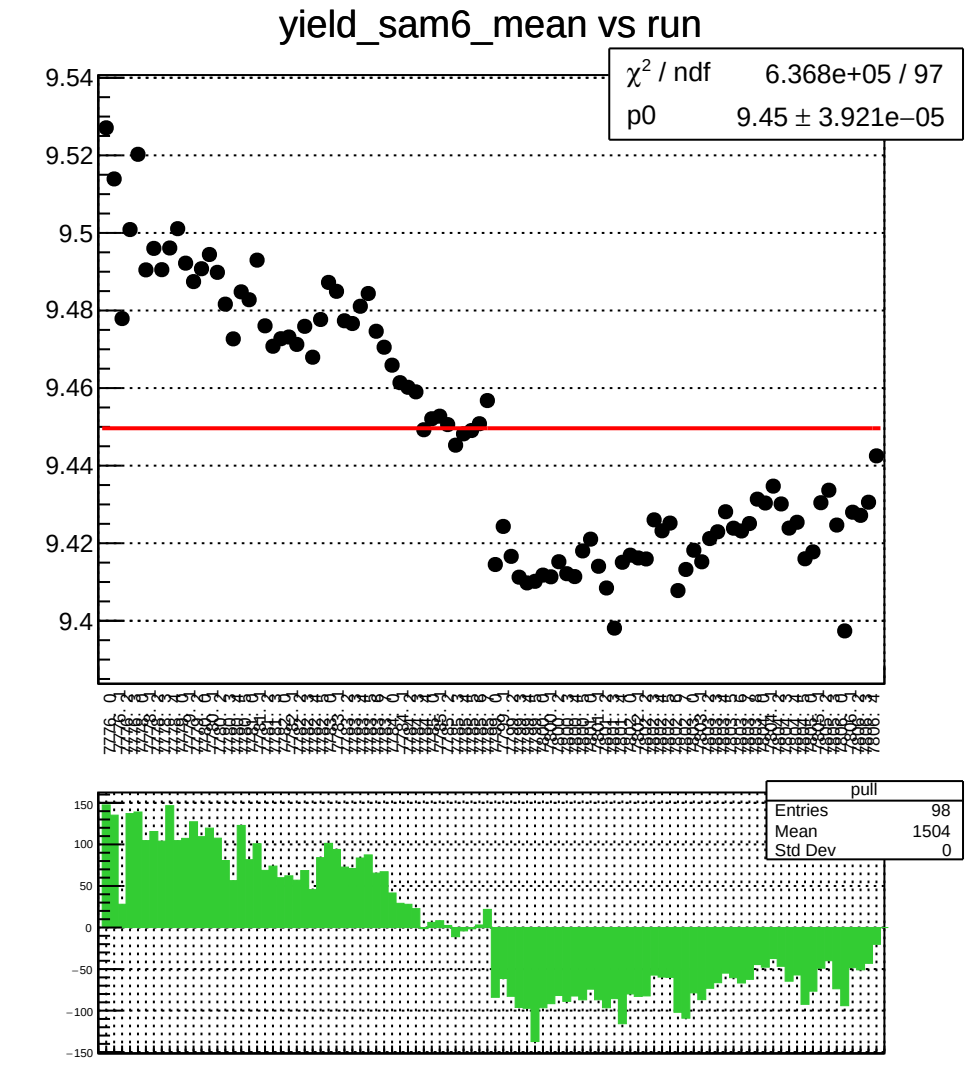

pull1D
Entries 98
Mean 0.885
Std Dev 5.463
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

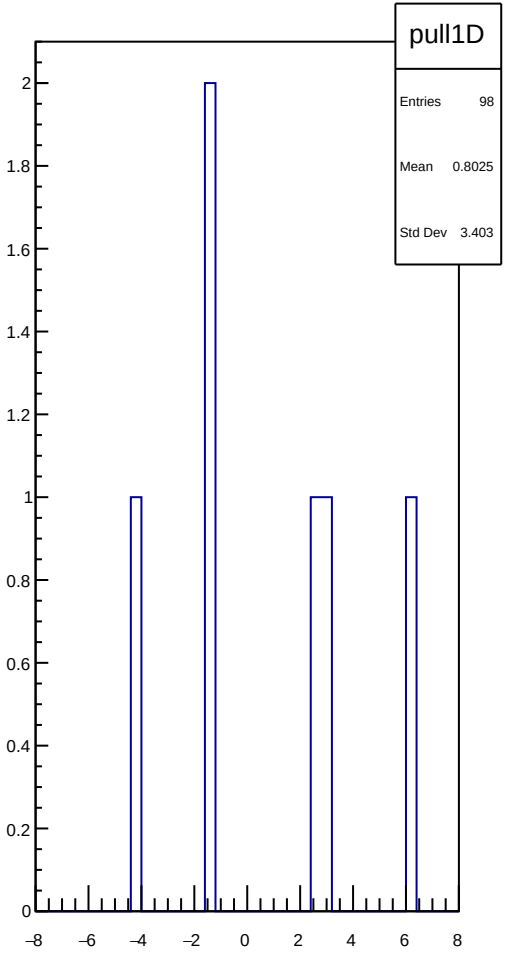

yield_sam4_rms vs run
χ² / ndf 1.519e+04 / 97
p0 0.2111 ± 0.0001521
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18

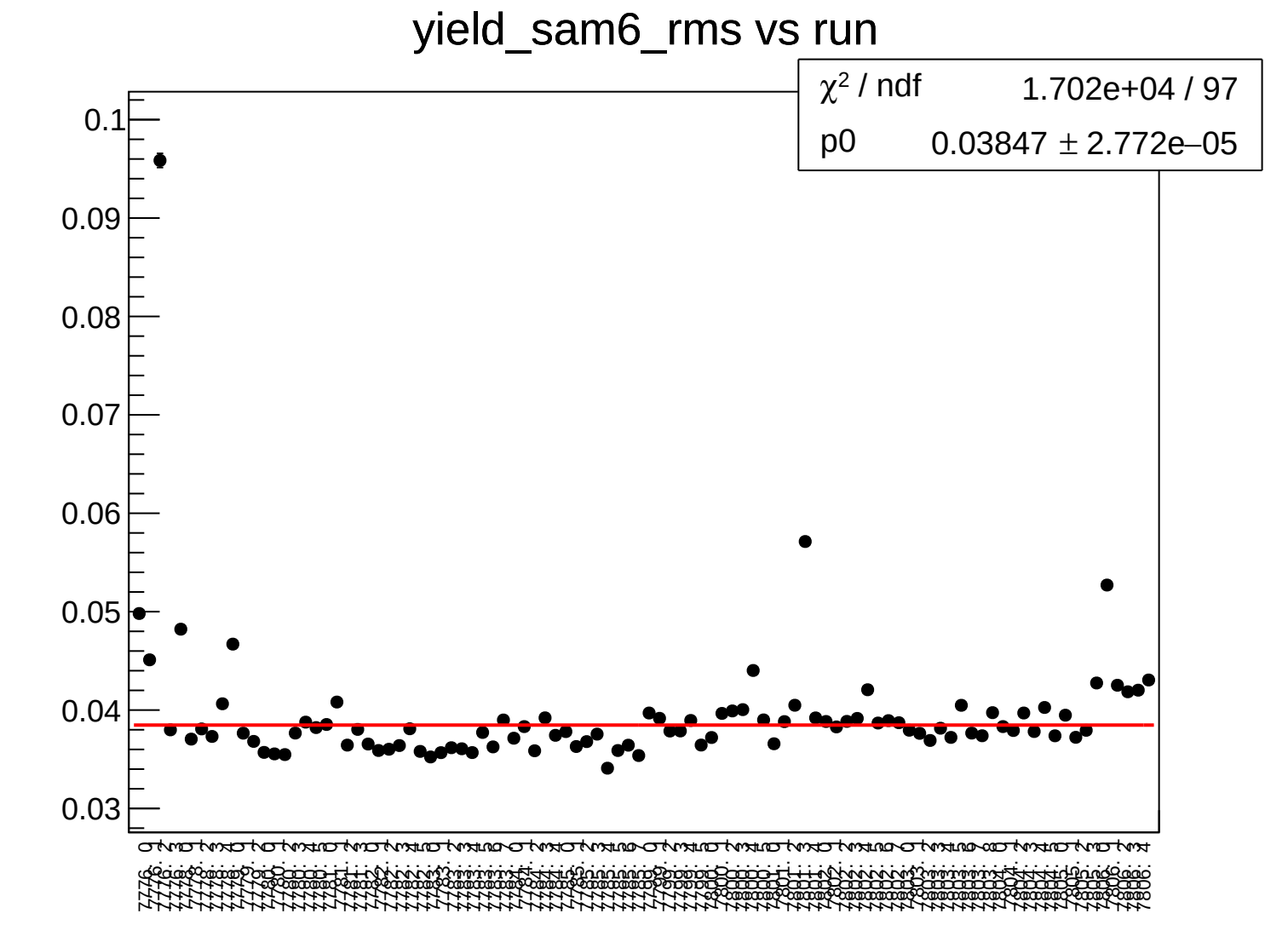

yield_sam5_mean vs run
χ² / ndf 4.317e+06 / 97
p0 17.44 ± 3.51e−05
17.6
17.55
17.5
17.45
17.4
17.35
pull
Entries 98
Mean 407.4
Std Dev 0
400
300
200
100
0
−100
−200
−300

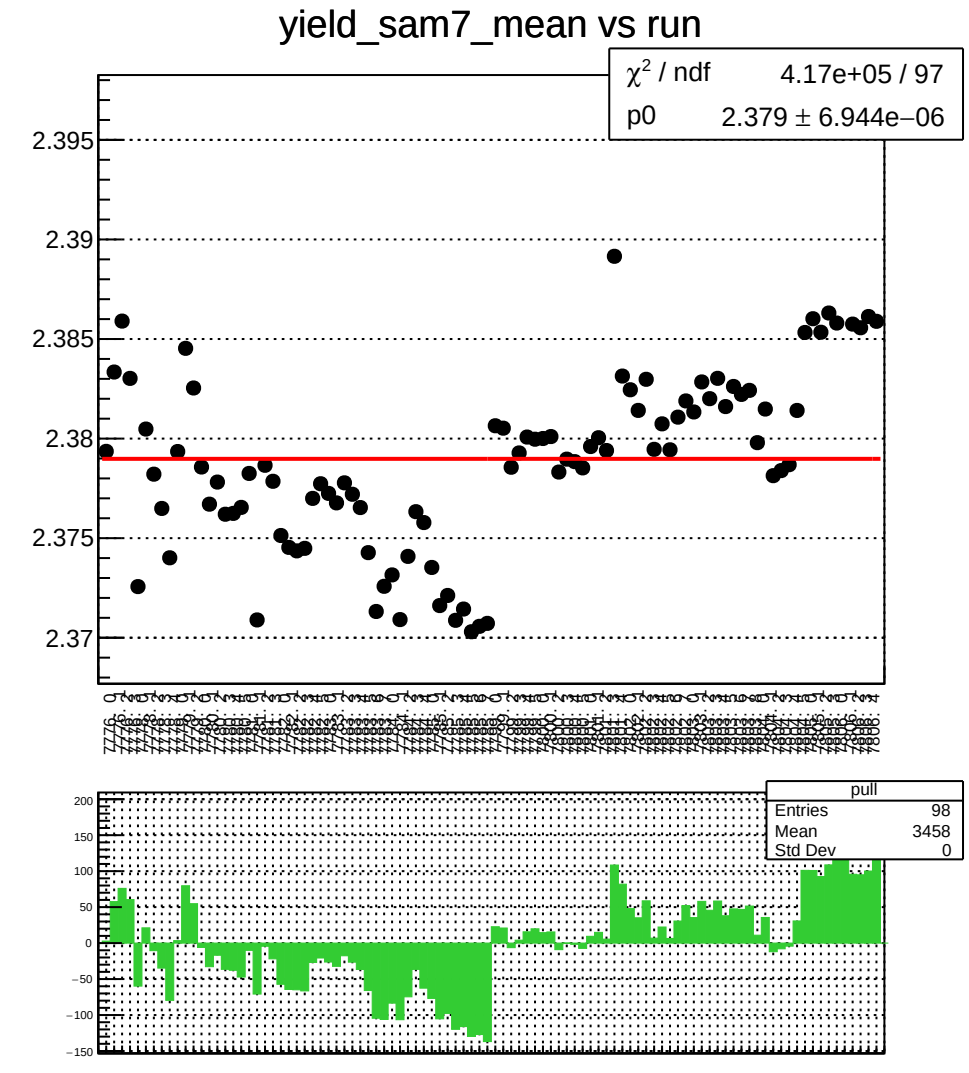

pull1D
Entries 98
Mean 5.84
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

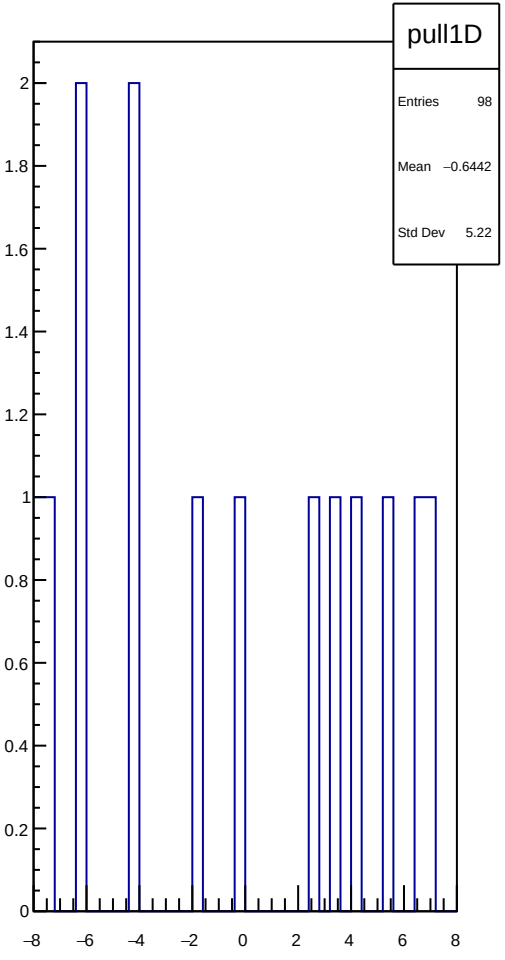

yield_sam5_rms vs run
χ² / ndf 6.755e+04 / 97
p0 0.03399 ± 2.482e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

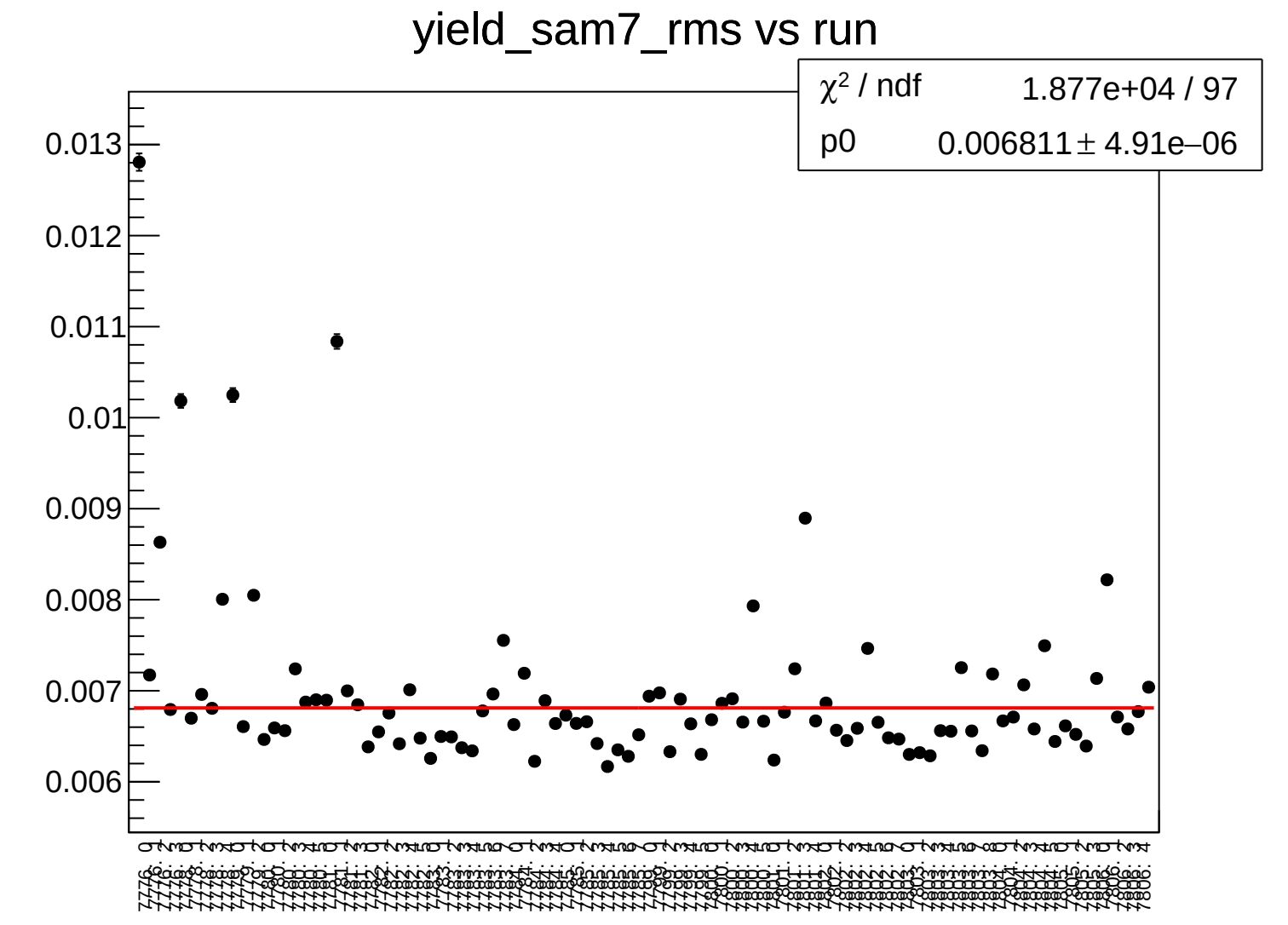

yield_sam6_mean vs run
χ² / ndf 6.368e+05 / 97
p0 9.45 ± 3.921e−05
9.54
9.52
9.5
9.48
9.46
9.44
9.42
9.4
pull
Entries 98
Mean 1504
Std Dev 0
150
100
50
0
−50
−100
−150

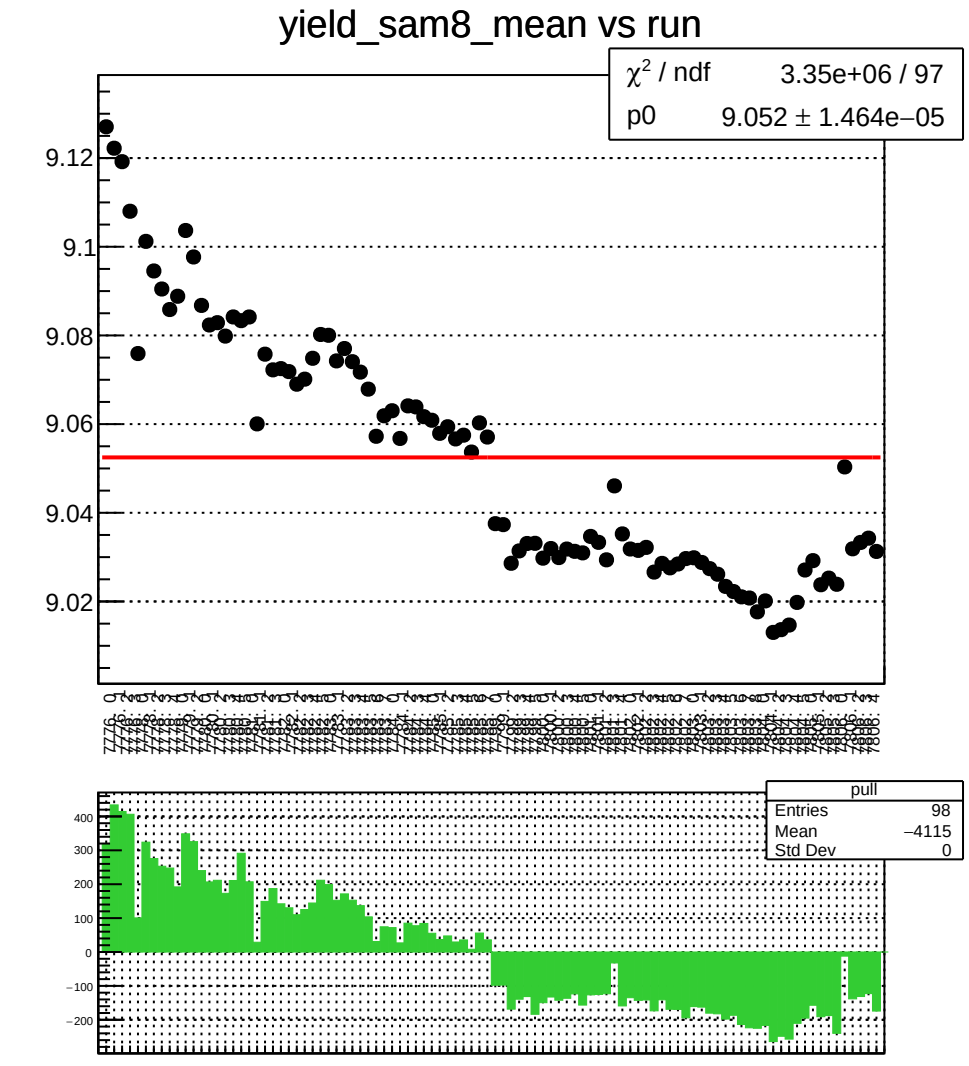

pull1D
Entries 98
Mean 0.8025
Std Dev 3.403
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

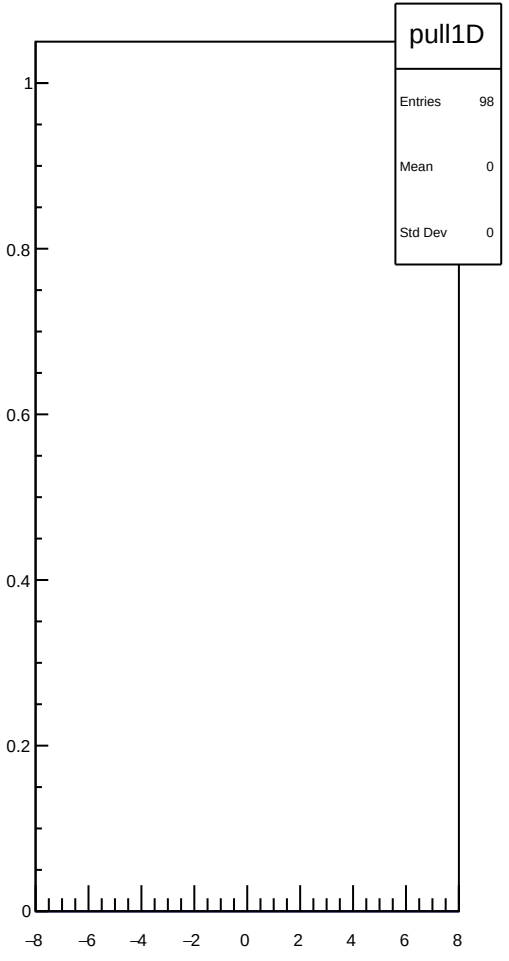

yield_sam6_rms vs run
χ² / ndf 1.702e+04 / 97
p0 0.03847 ± 2.772e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03


yield_sam7_mean vs run
χ² / ndf 4.17e+05 / 97
p0 2.379 ± 6.944e−06
2.395
2.39
2.385
2.38
2.375
2.37
pull
Entries 98
Mean 3458
Std Dev 0
200
150
100
50
0
−50
−100
−150

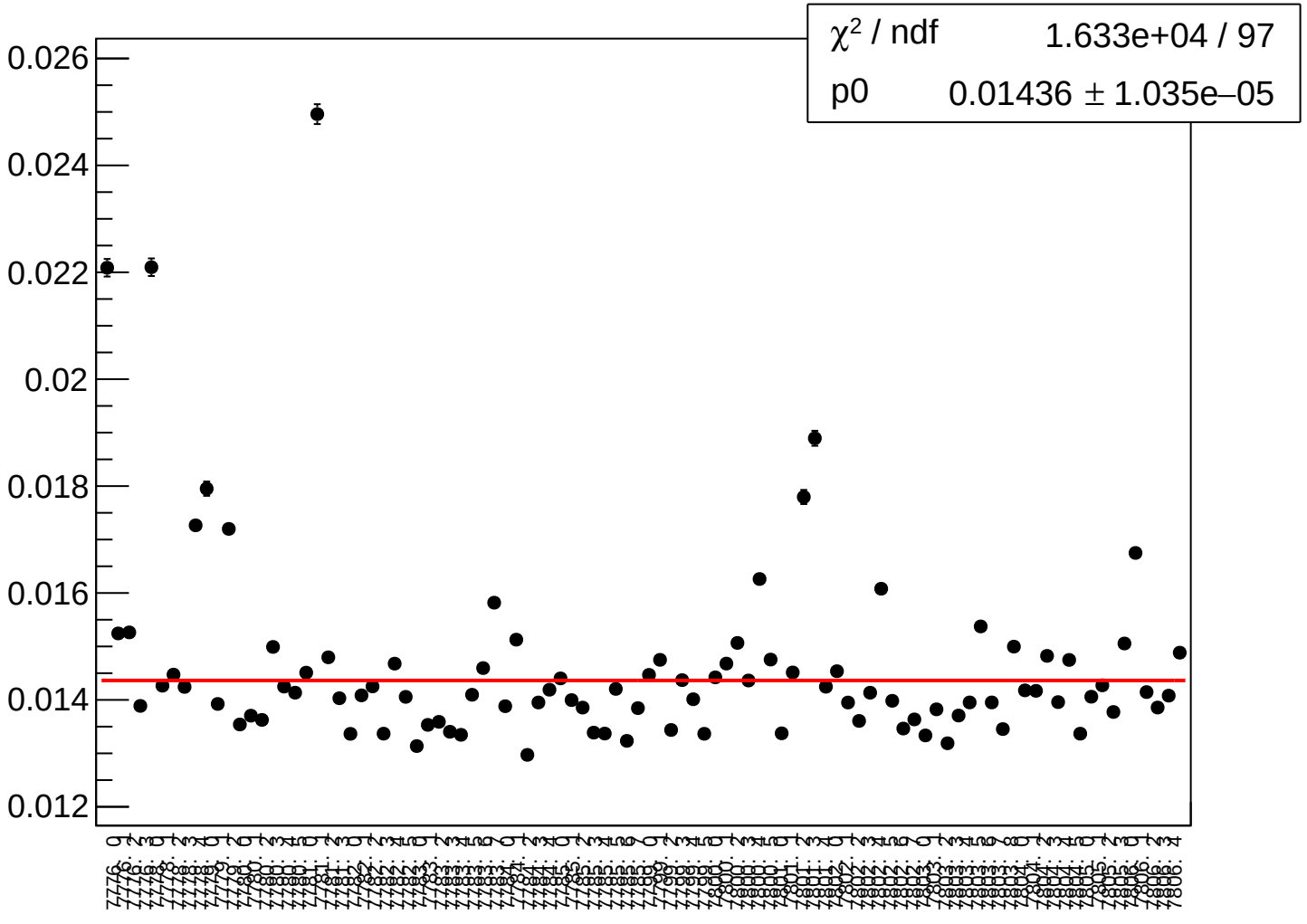

pull1D
Entries 98
Mean −0.6442
Std Dev 5.22
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

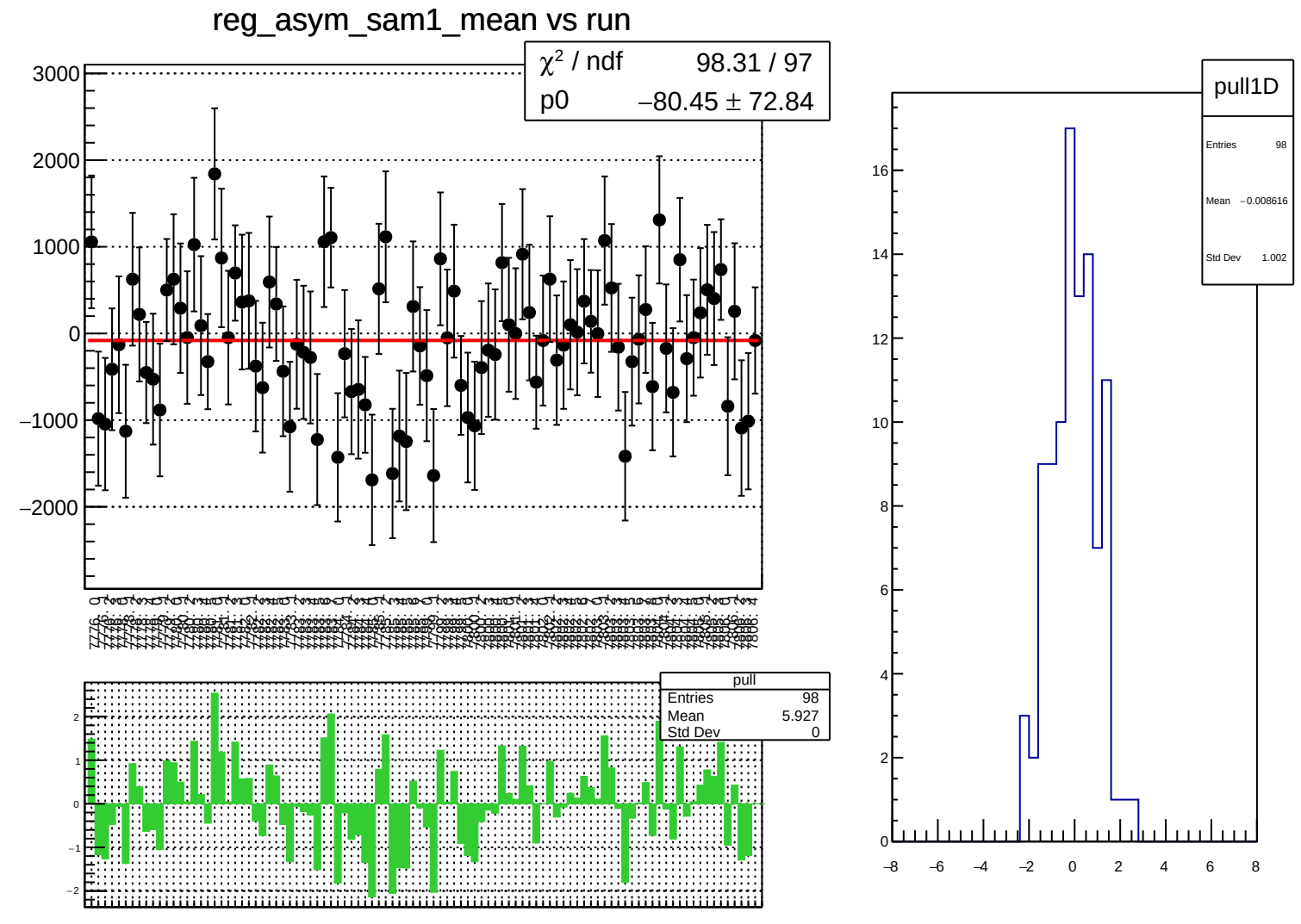

yield_sam7_rms vs run
χ² / ndf 1.877e+04 / 97
p0 0.006811 ± 4.91e–06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

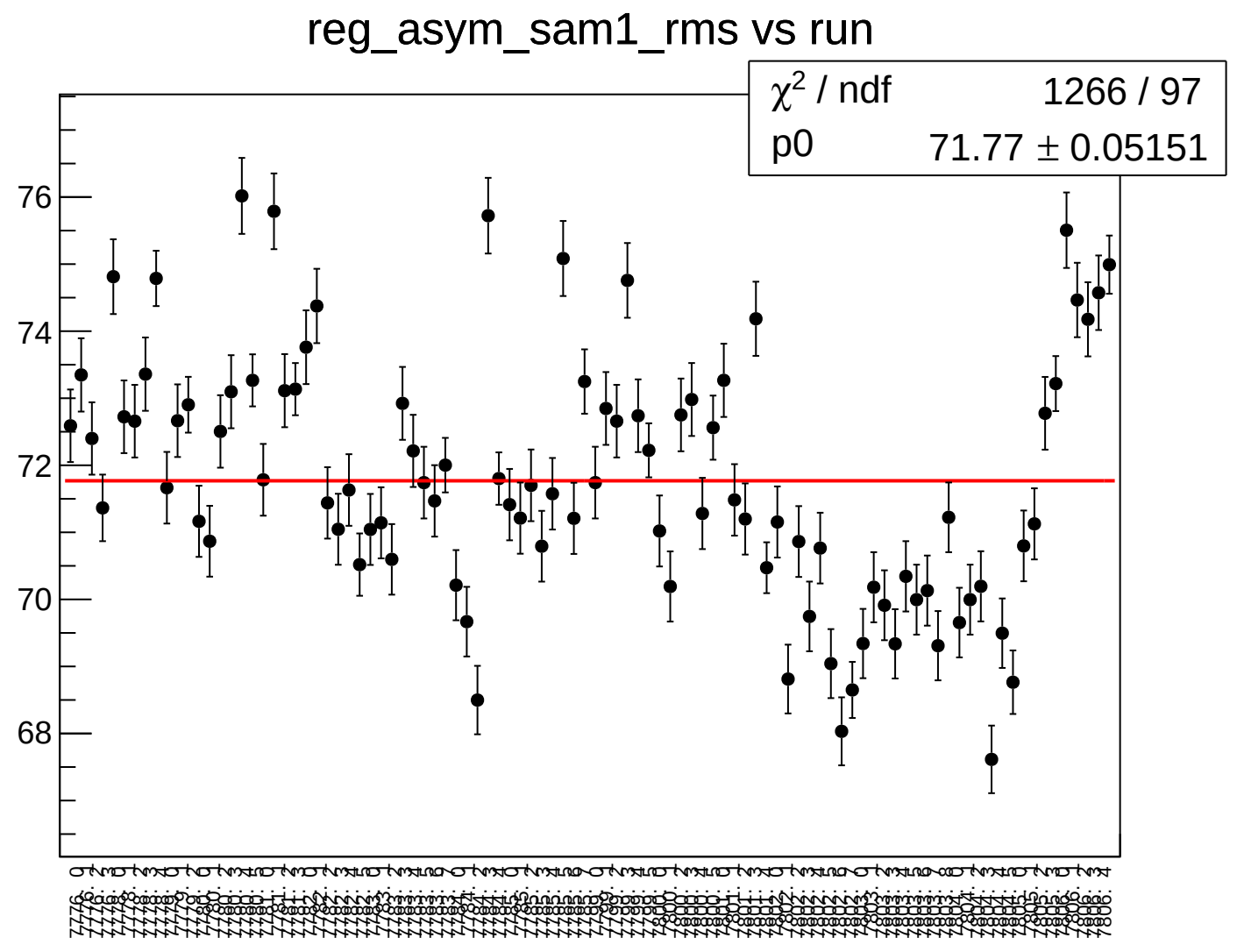

yield_sam8_mean vs run
χ² / ndf 3.35e+06 / 97
p0 9.052 ± 1.464e−05
9.12
9.1
9.08
9.06
9.04
9.02
pull
Entries 98
Mean −4115
Std Dev 0
400
300
200
100
0
−100
−200

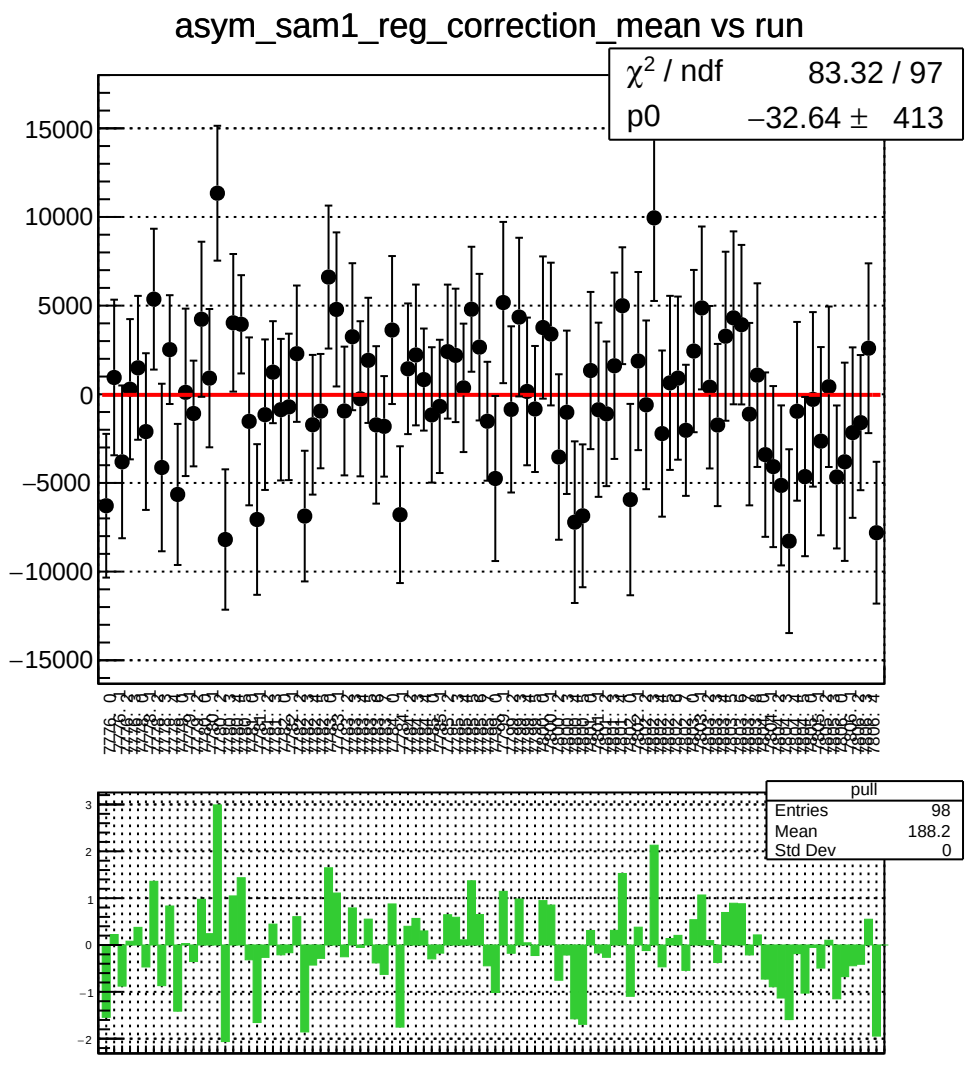

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

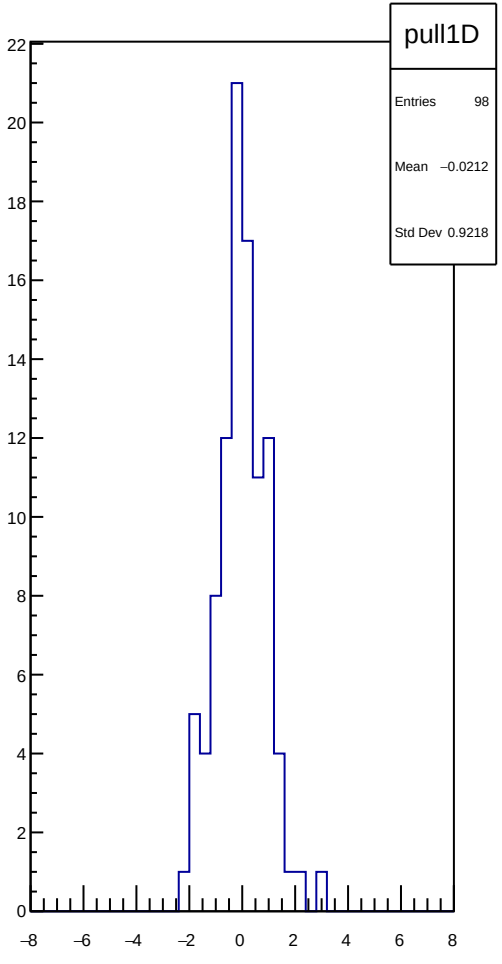
yield_sam8_rms vs run

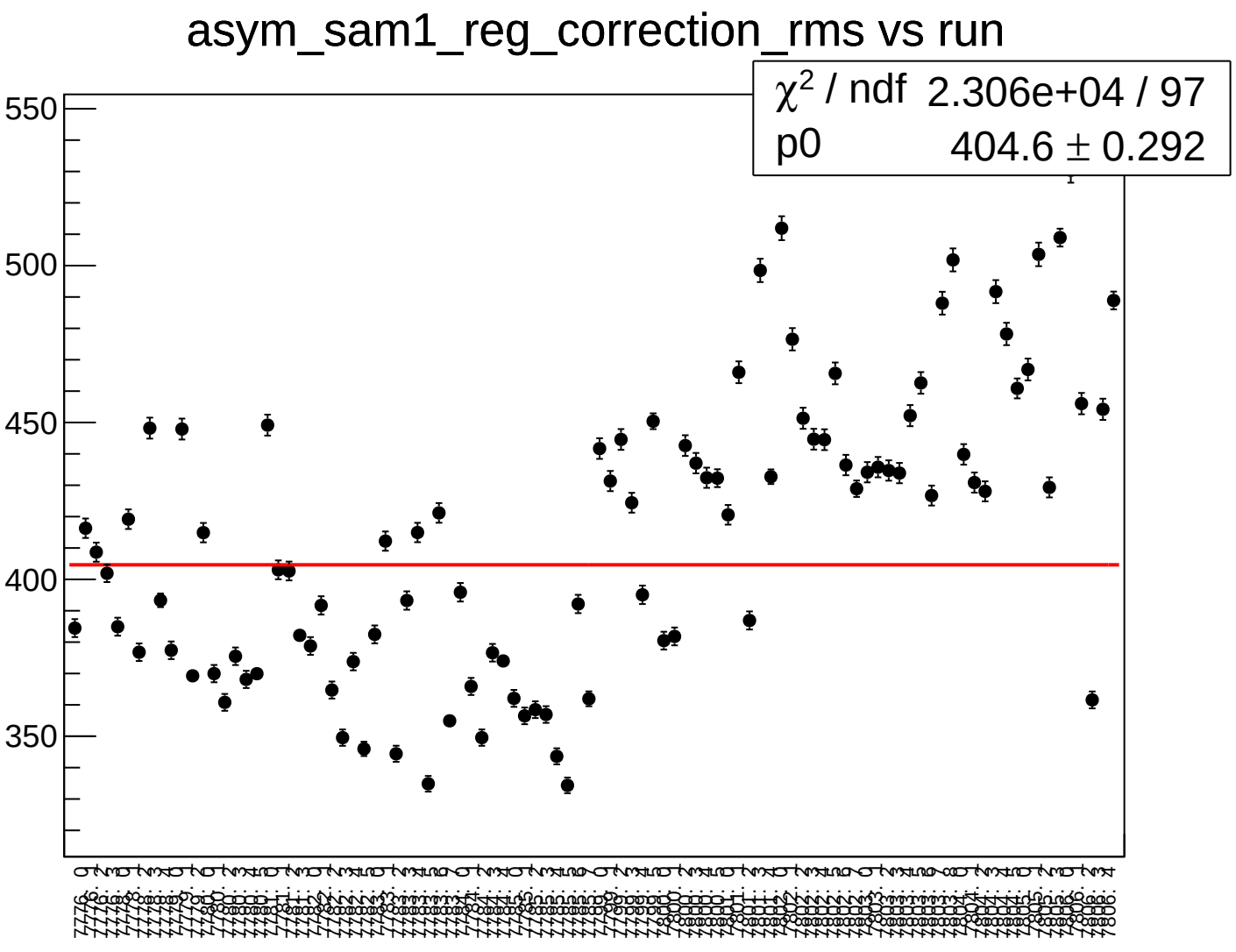


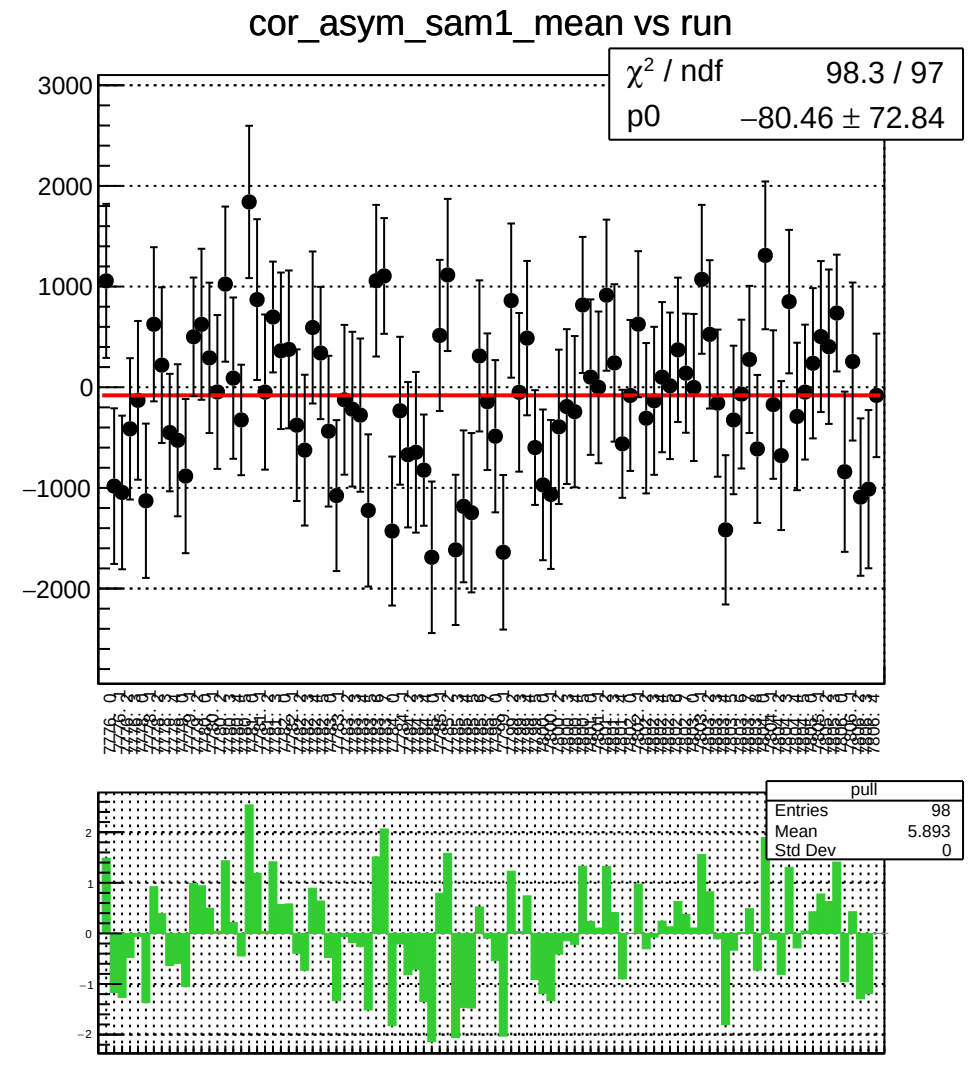

reg_asym_sam1_mean vs run
χ² / ndf 98.31 / 97
p0 −80.45 ± 72.84
3000
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 5.927
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.008616
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

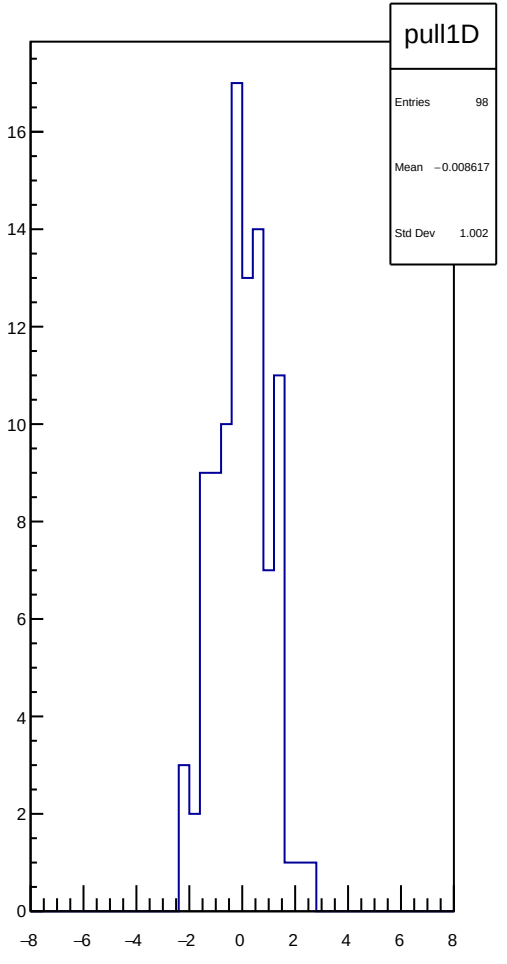

reg_asym_sam1_rms vs run
χ^2 / ndf 1266 / 97
p0 71.77 ± 0.05151
76
74
72
70
68

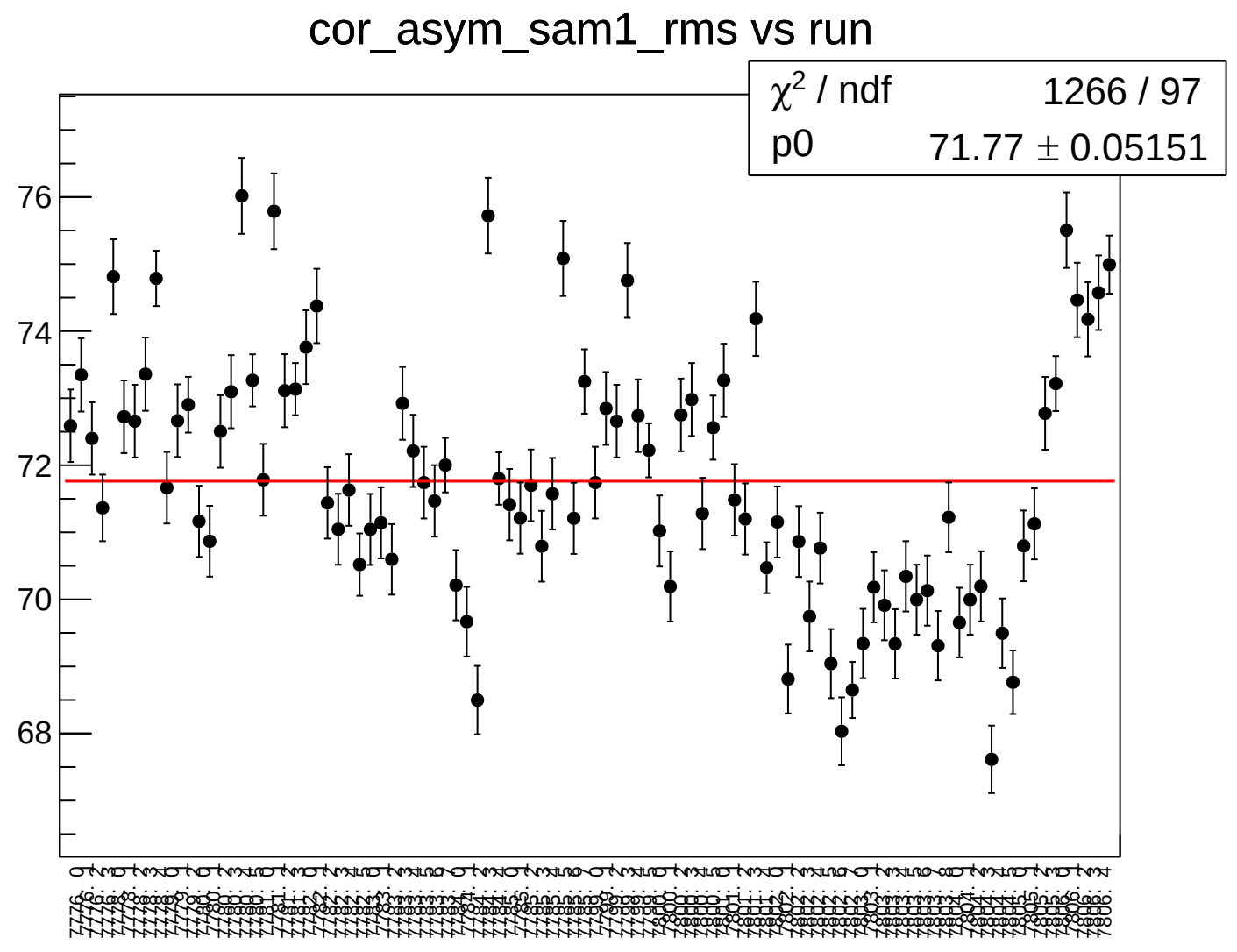

asym_sam1_reg_correction_mean vs run
χ² / ndf 83.32 / 97
p0 −32.64 ± 413
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 188.2
Std Dev 0
3
2
1
0
−1
−2

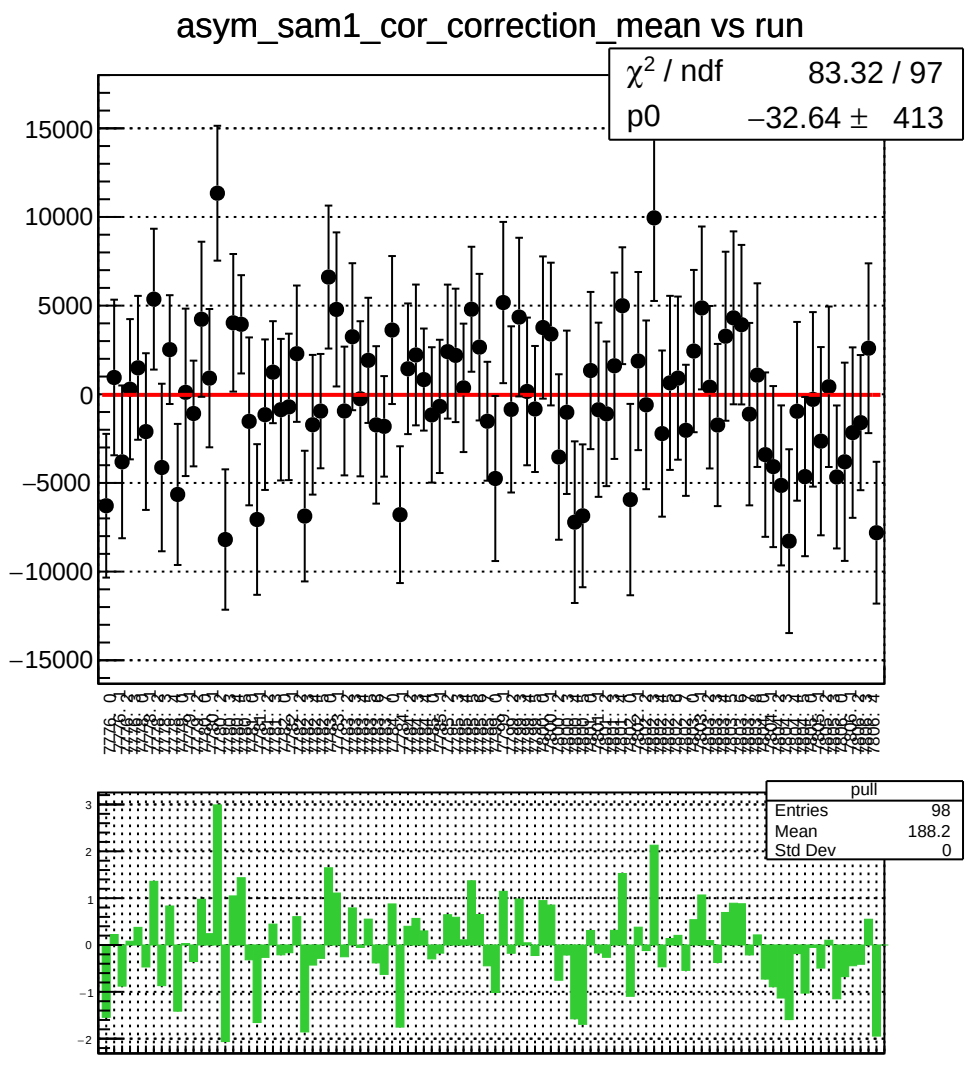

pull1D
Entries 98
Mean −0.0212
Std Dev 0.9218
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

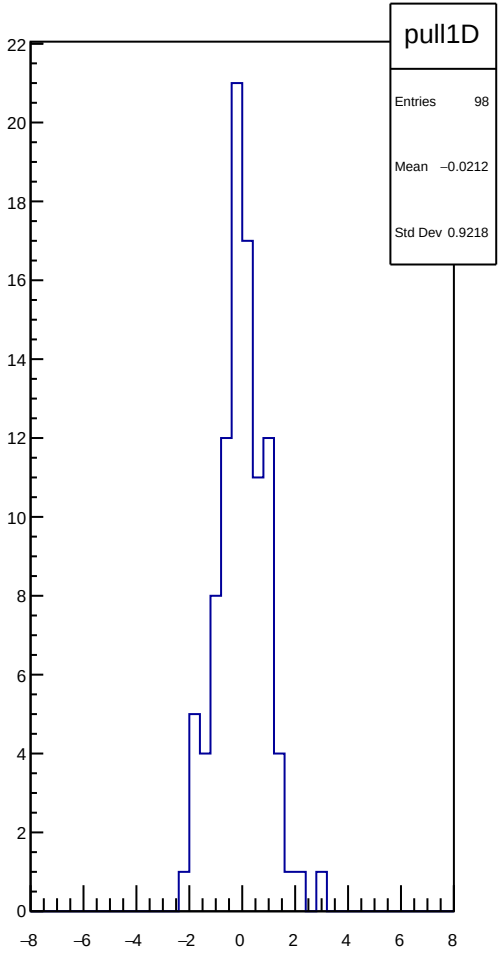

asym_sam1_reg_correction_rms vs run
χ² / ndf 2.306e+04 / 97
p0 404.6 ± 0.292
550
500
450
400
350

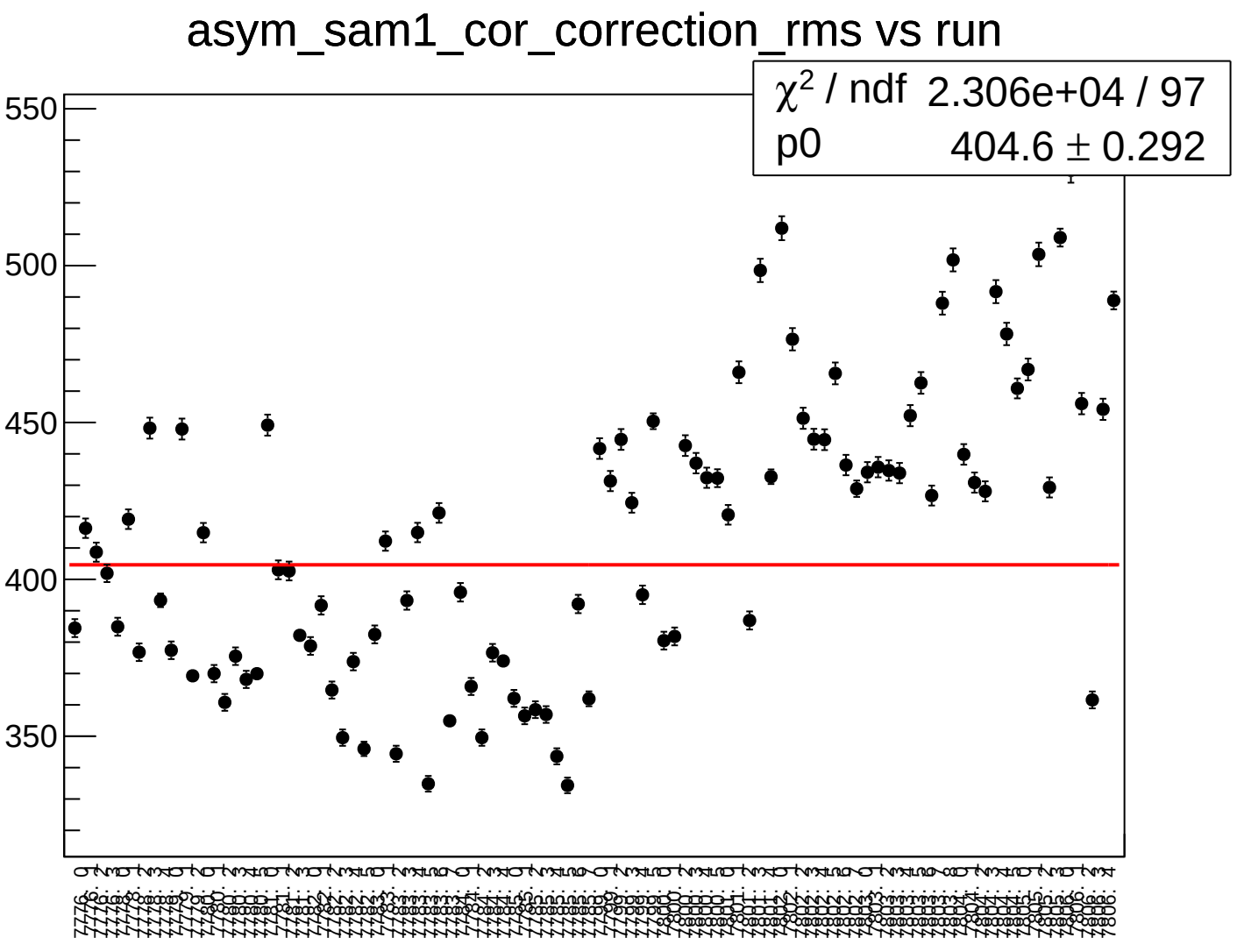

cor_asym_sam1_mean vs run
χ² / ndf 98.3 / 97
p0 −80.46 ± 72.84
3000
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 5.893
Std Dev 0
2
1
0
−1
−2

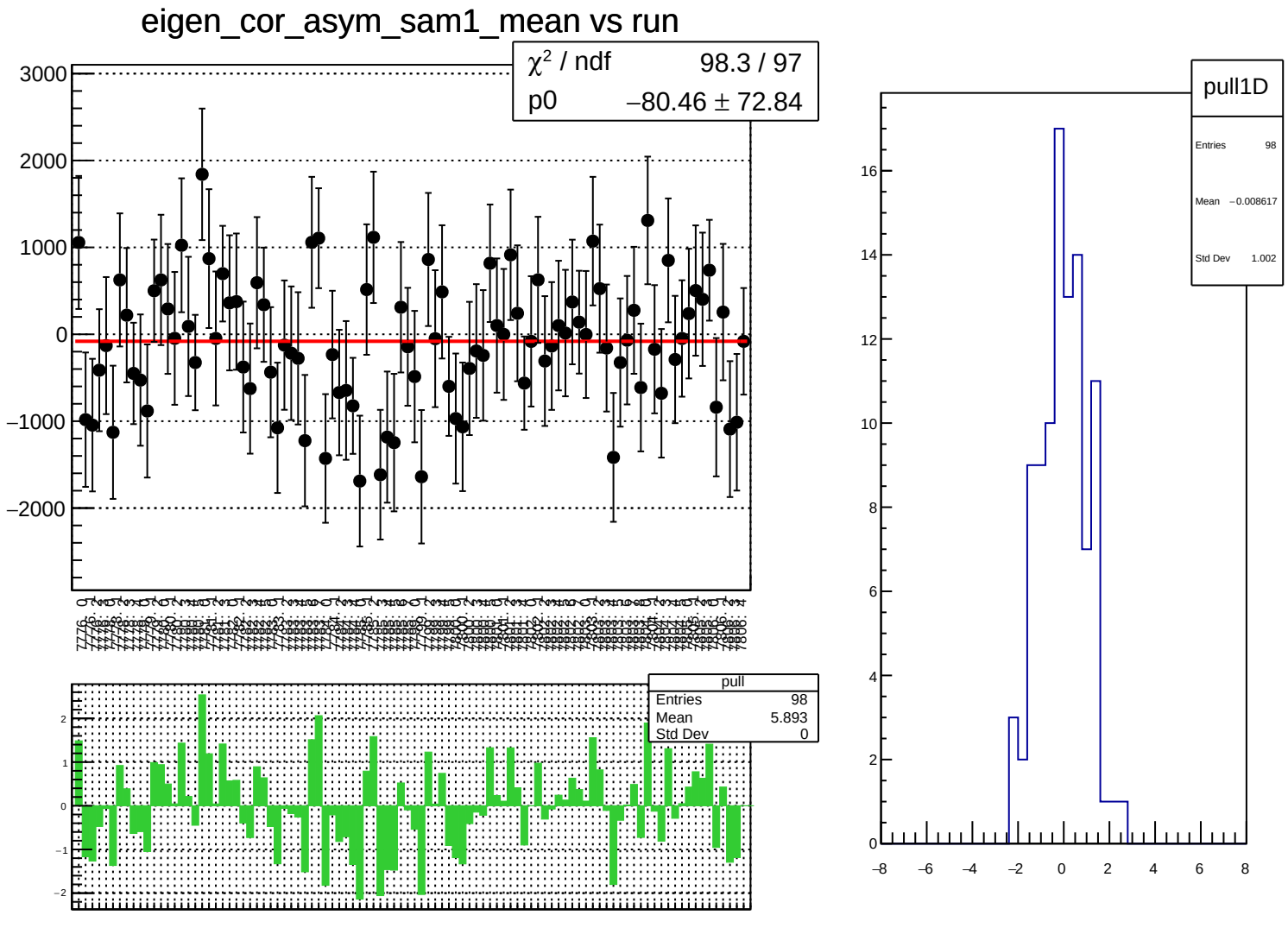

pull1D
Entries 98
Mean −0.008617
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

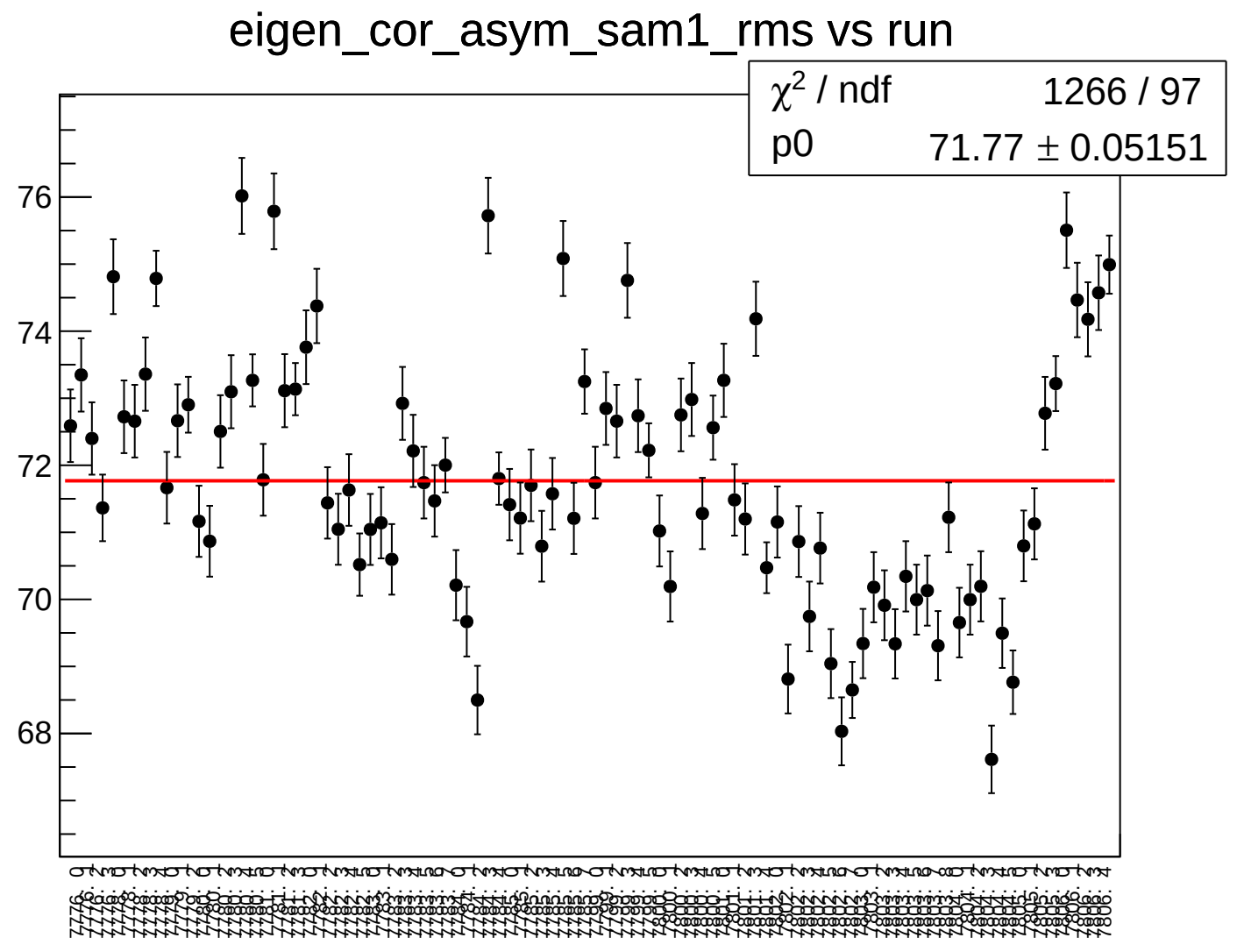

cor_asym_sam1_rms vs run
χ^2 / ndf 1266 / 97
p0 71.77 ± 0.05151
76
74
72
70
68

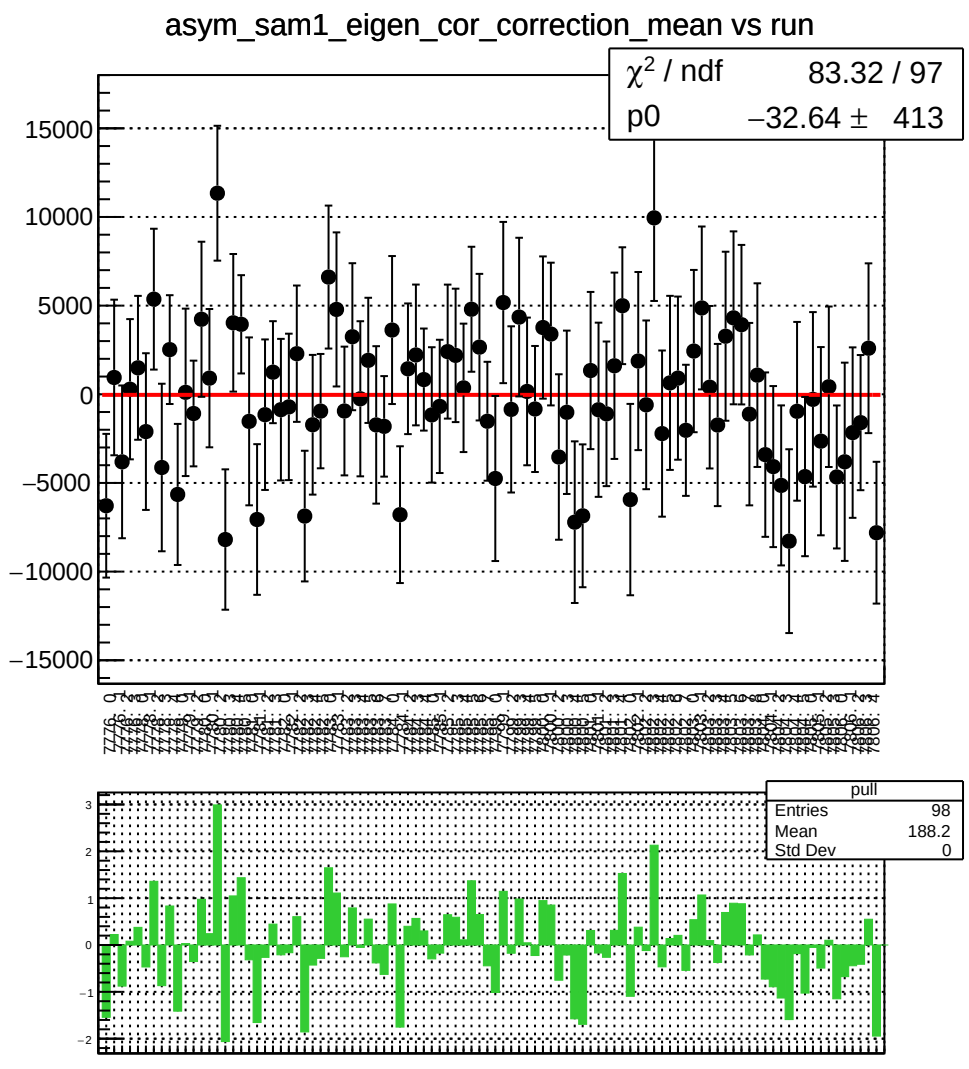

asym_sam1_cor_correction_mean vs run
χ² / ndf 83.32 / 97
p0 −32.64 ± 413
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 188.2
Std Dev 0
3
2
1
0
−1
−2

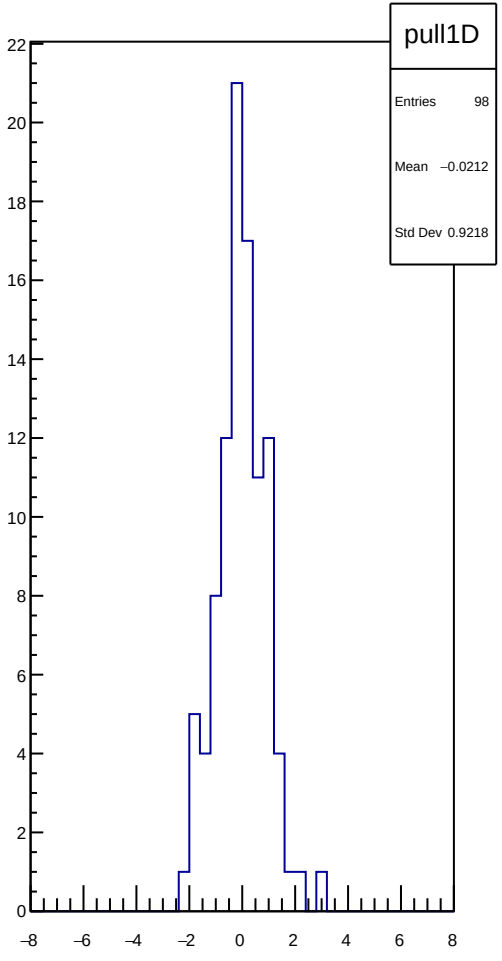

pull1D
Entries 98
Mean −0.0212
Std Dev 0.9218
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

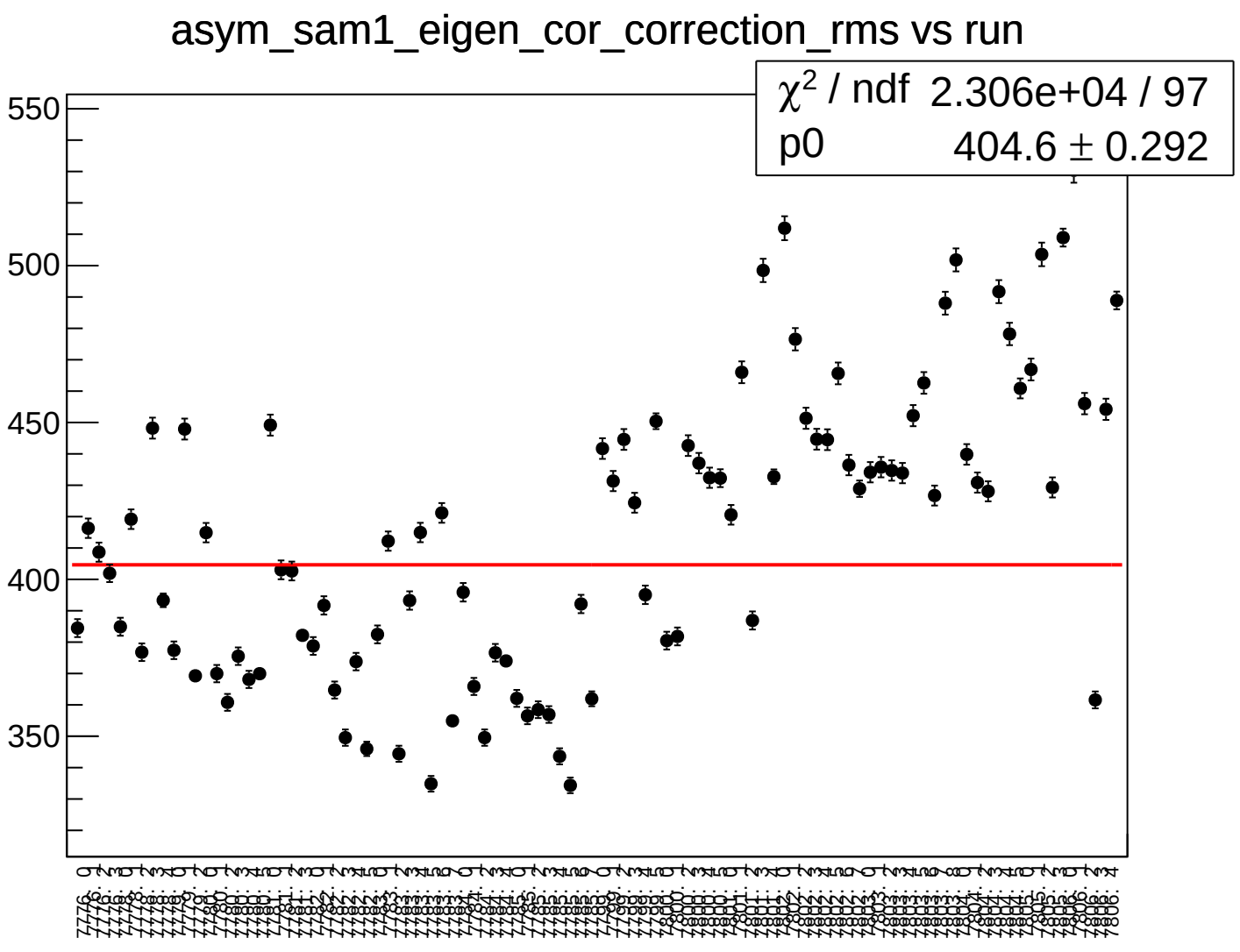

asym_sam1_cor_correction_rms vs run
χ² / ndf 2.306e+04 / 97
p0 404.6 ± 0.292
550
500
450
400
350

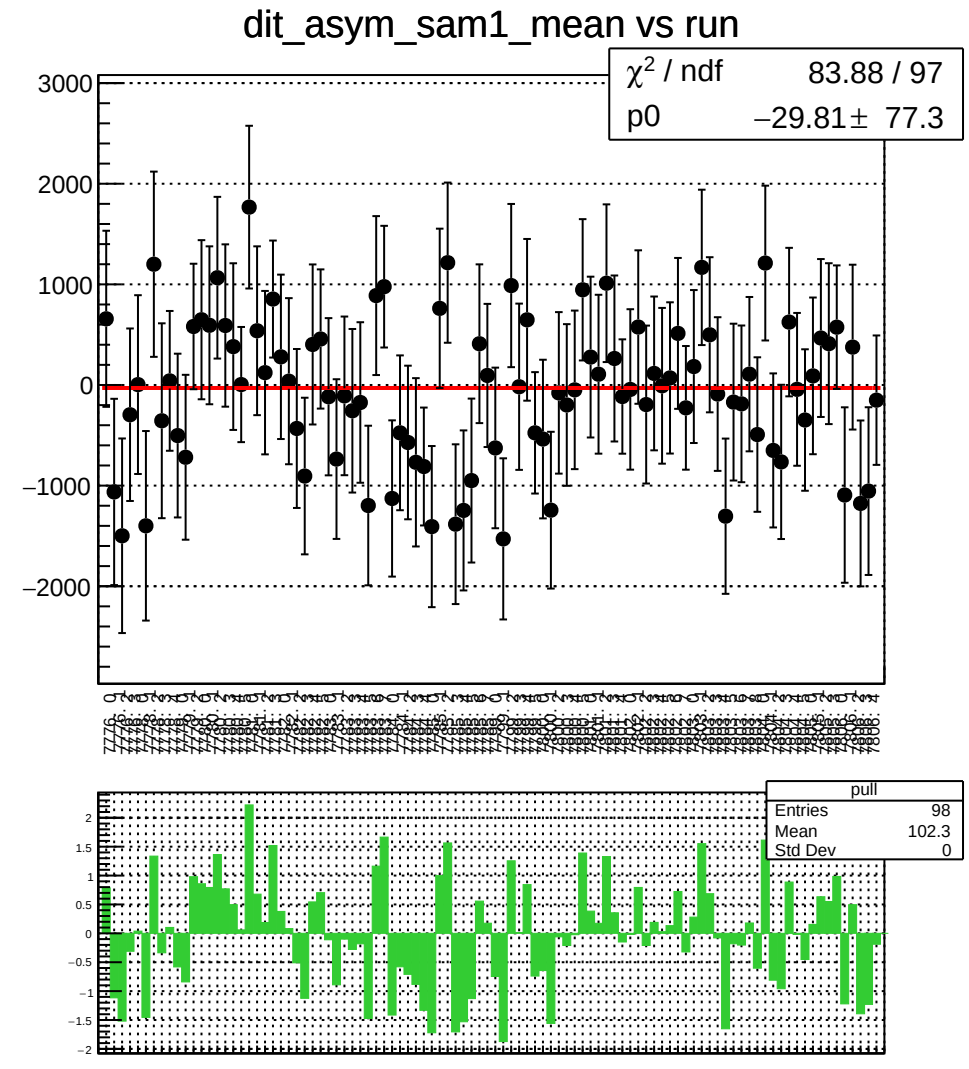

eigen_cor_asym_sam1_mean vs run
χ² / ndf 98.3 / 97
p0 −80.46 ± 72.84
3000
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 5.893
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.008617
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

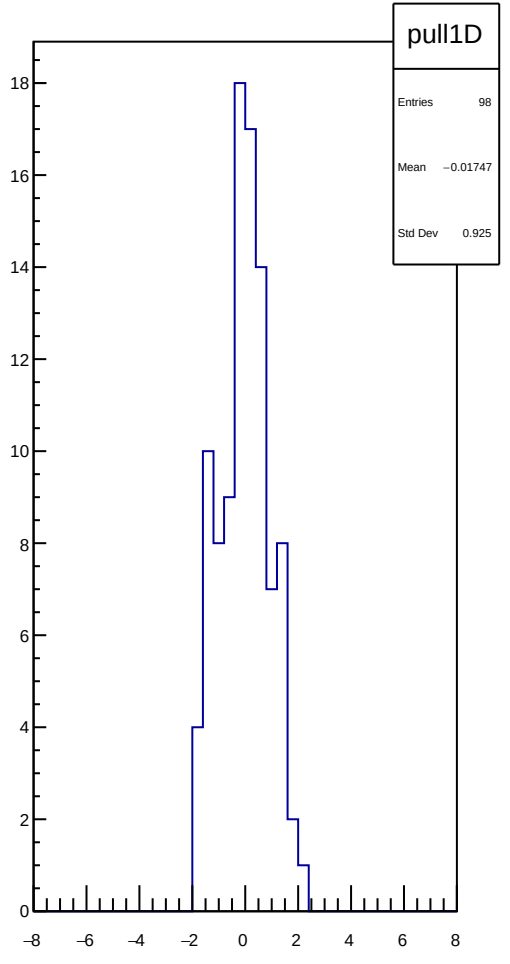

eigen_cor_asym_sam1_rms vs run
χ² / ndf 1266 / 97
p0 71.77 ± 0.05151
76
74
72
70
68

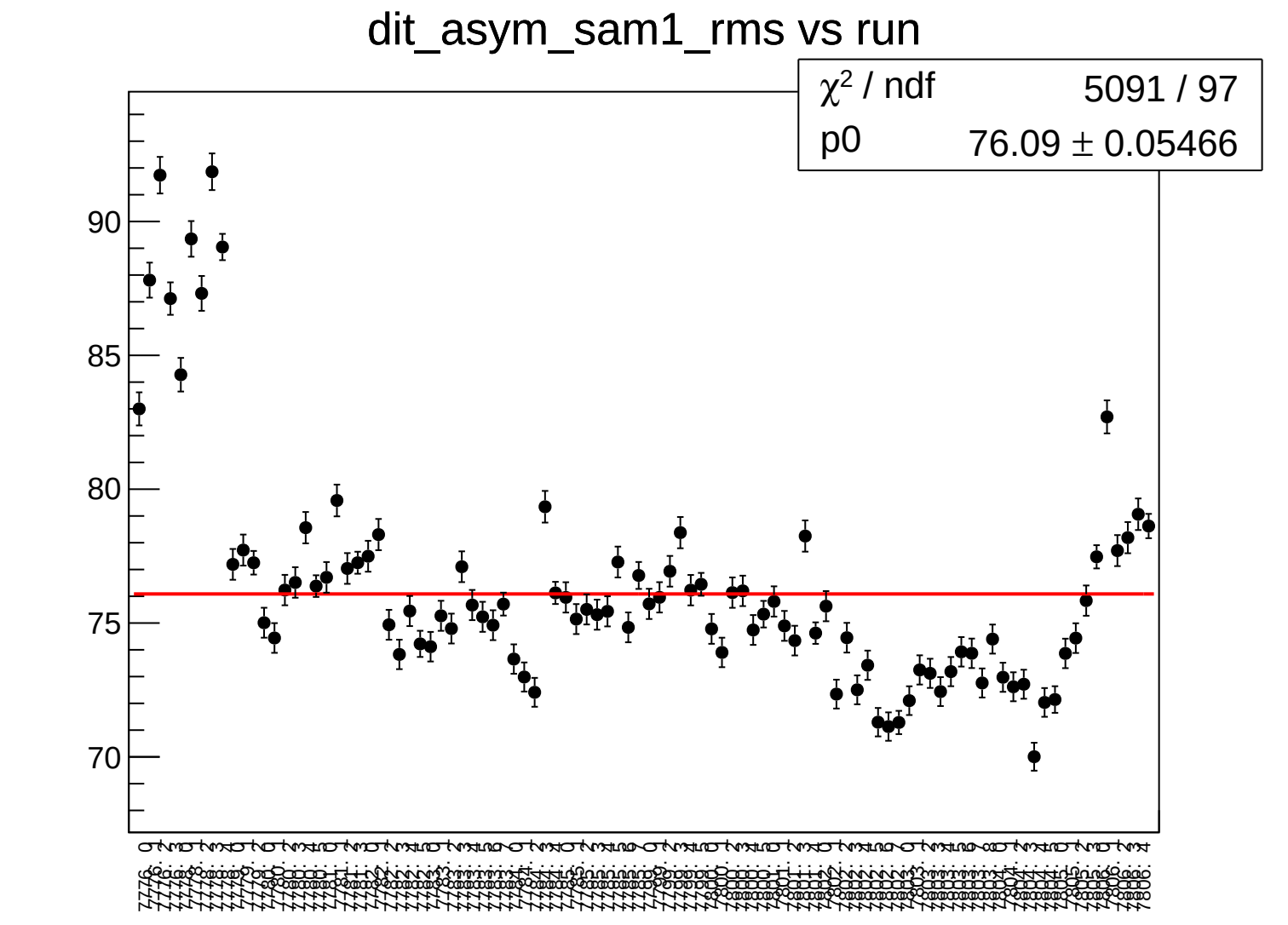

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 83.32 / 97
p0 −32.64 ± 413
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 188.2
Std Dev 0
3
2
1
0
−1
−2

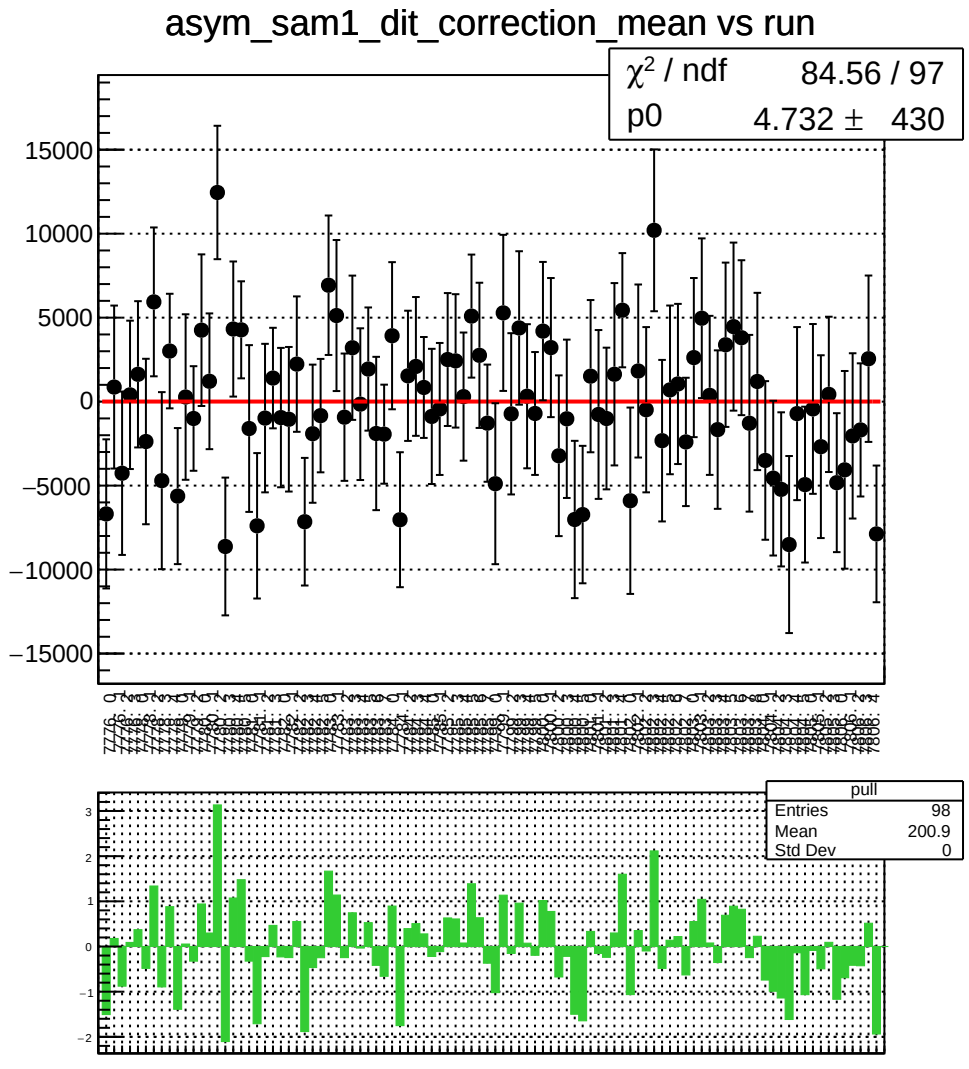

pull1D
Entries 98
Mean −0.0212
Std Dev 0.9218
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

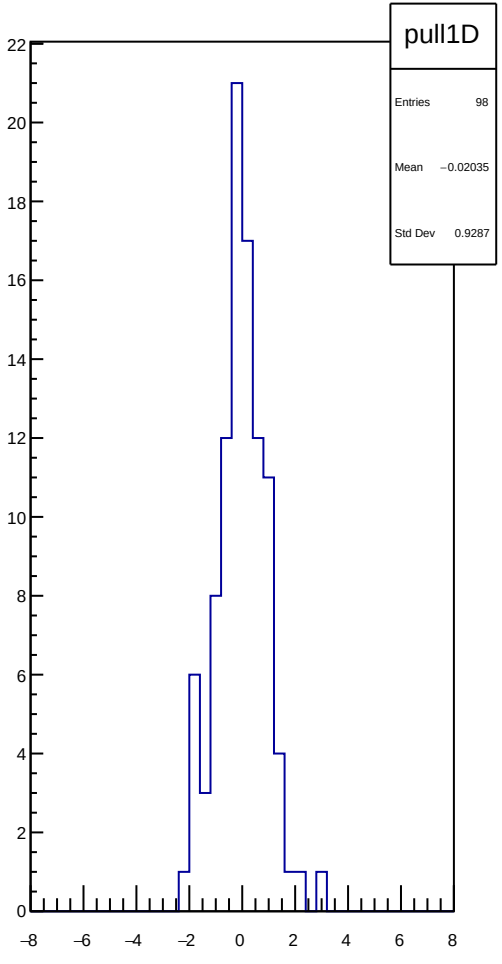

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 2.306e+04 / 97
p0 404.6 ± 0.292
550
500
450
400
350

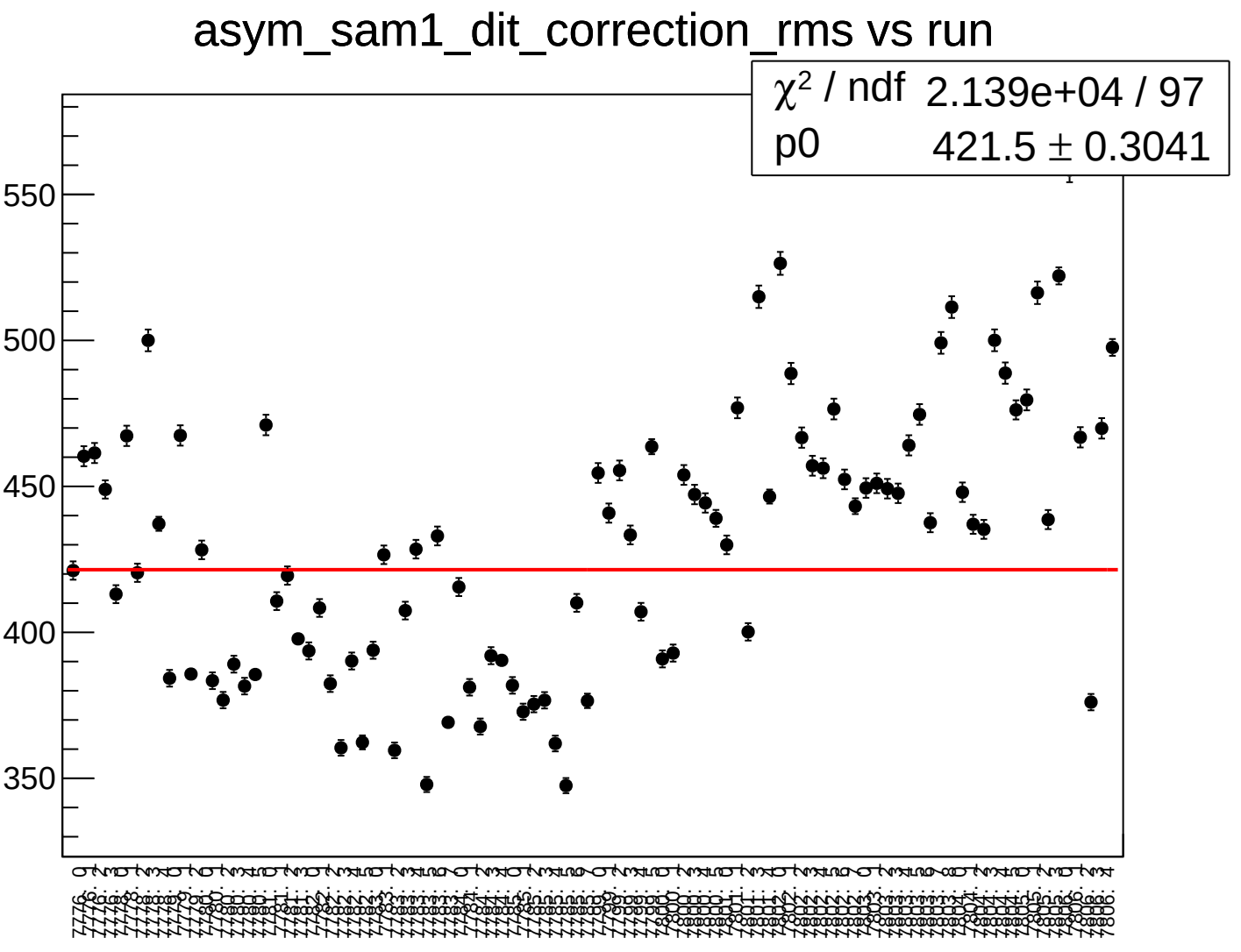

dit_asym_sam1_mean vs run
χ² / ndf 83.88 / 97
p0 −29.81± 77.3
3000
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 102.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

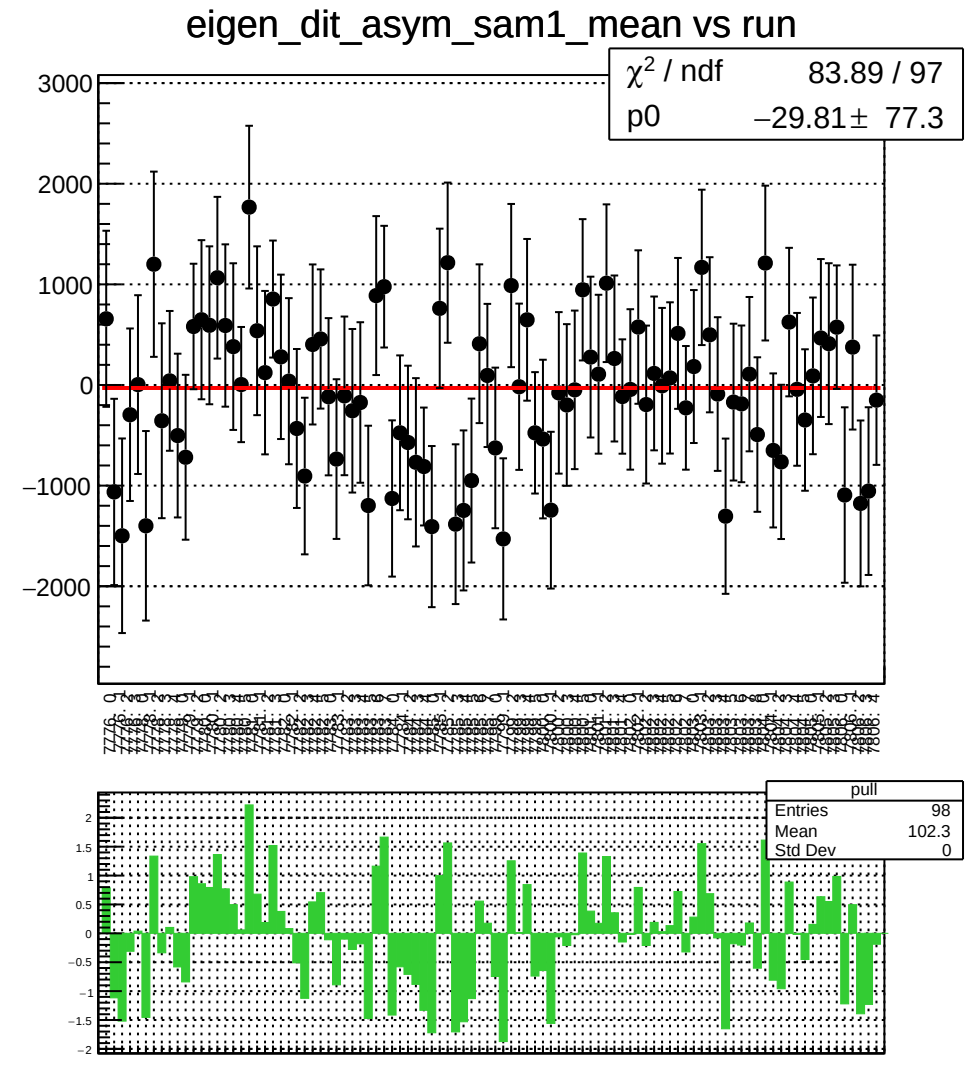

pull1D
Entries 98
Mean −0.01747
Std Dev 0.925
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

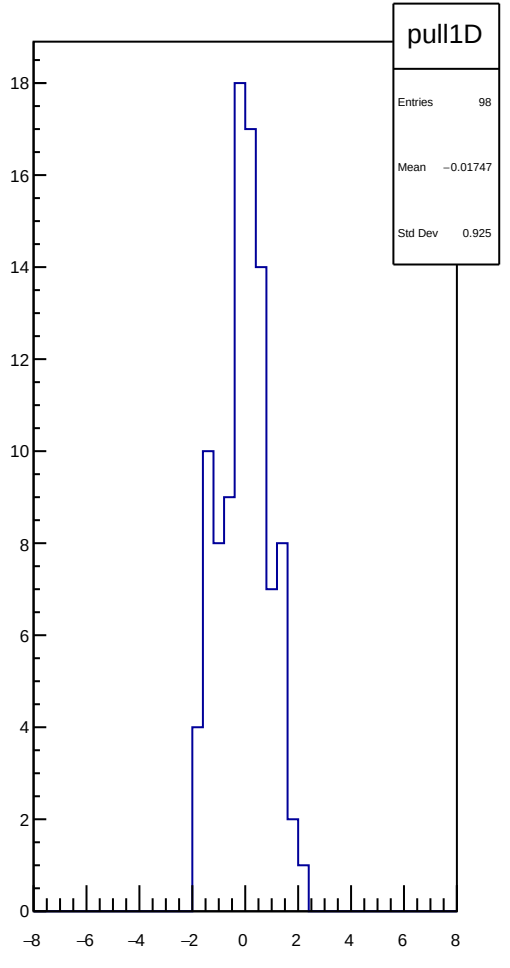

dit_asym_sam1_rms vs run
χ^2 / ndf 5091 / 97
p0 76.09 ± 0.05466
90
85
80
75
70

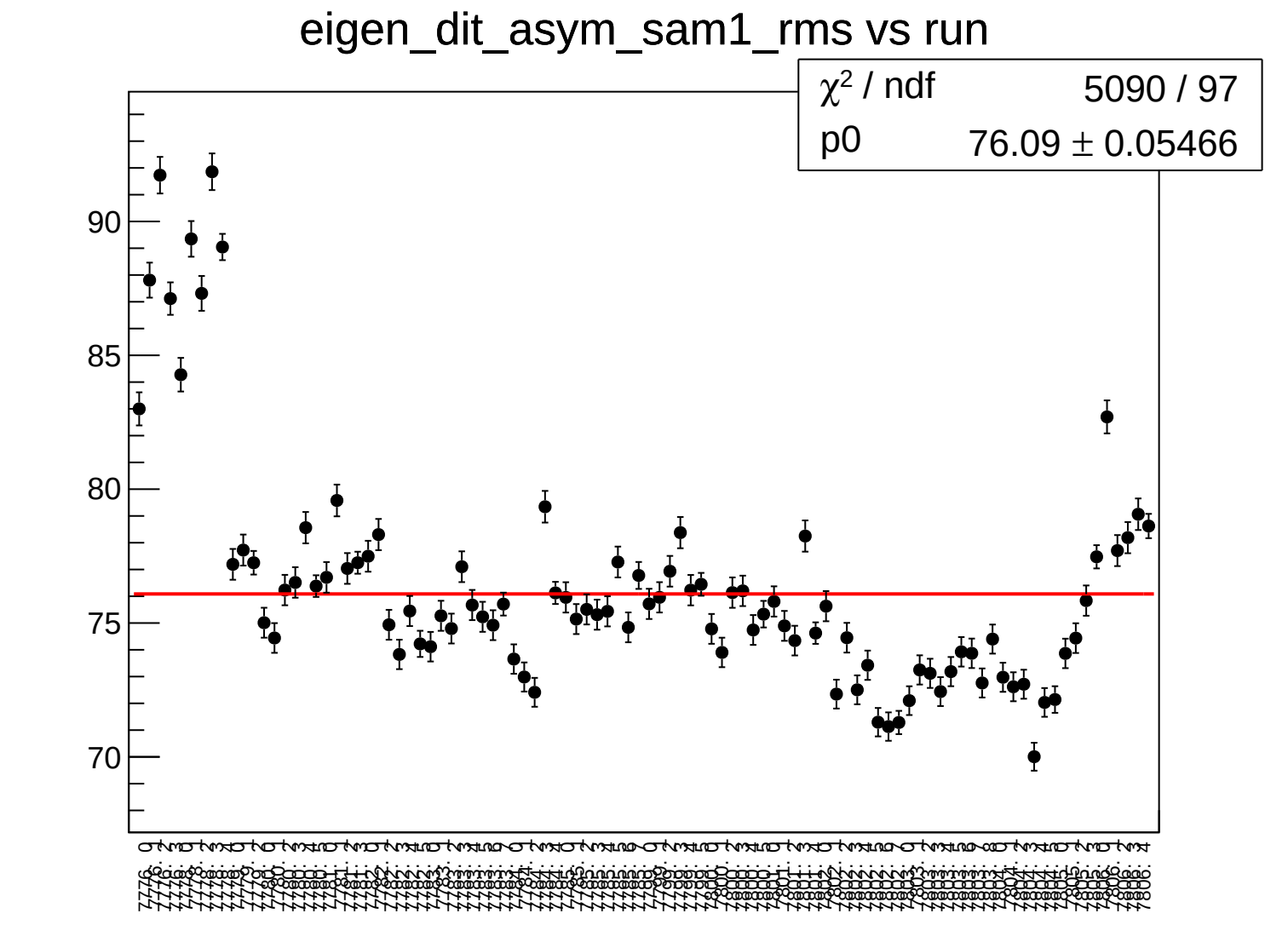

asym_sam1_dit_correction_mean vs run
χ² / ndf 84.56 / 97
p0 4.732 ± 430
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 200.9
Std Dev 0
3
2
1
0
−1
−2

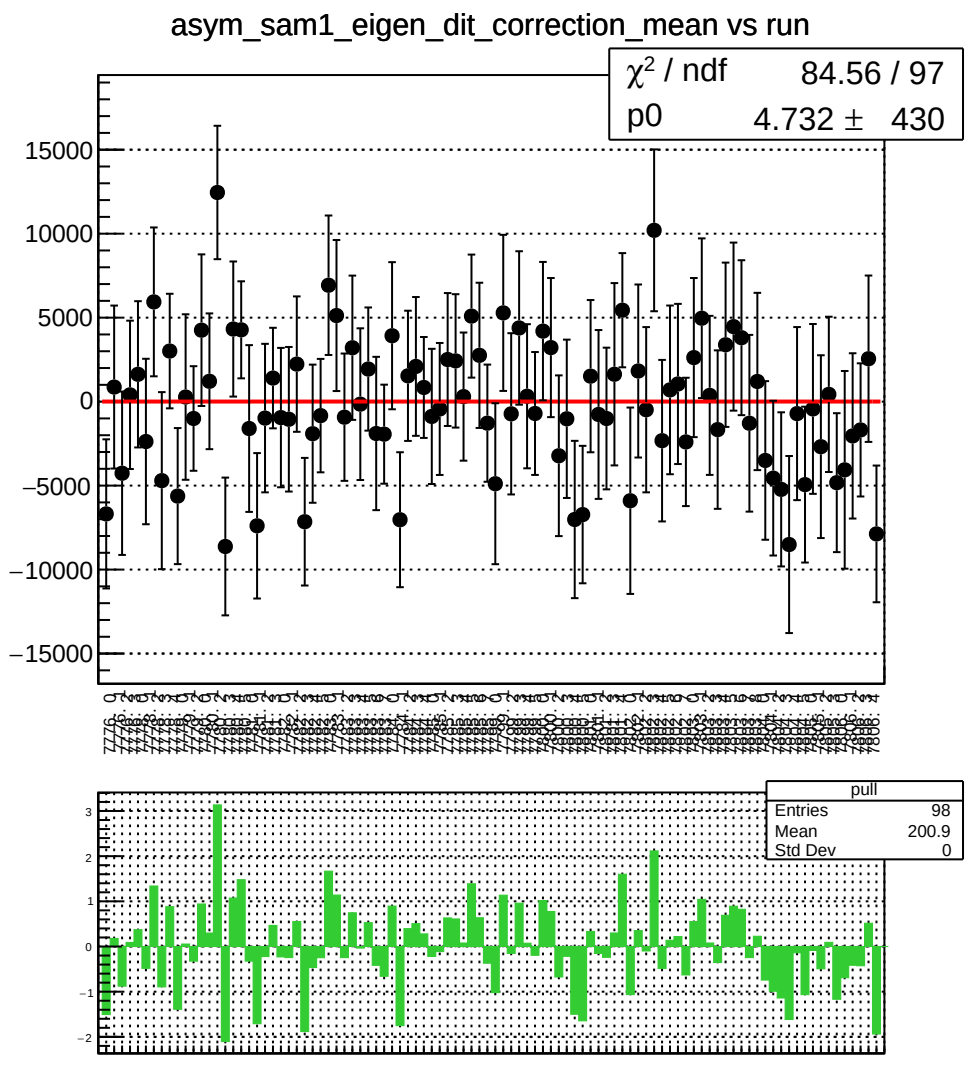

pull1D
Entries 98
Mean −0.02035
Std Dev 0.9287
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

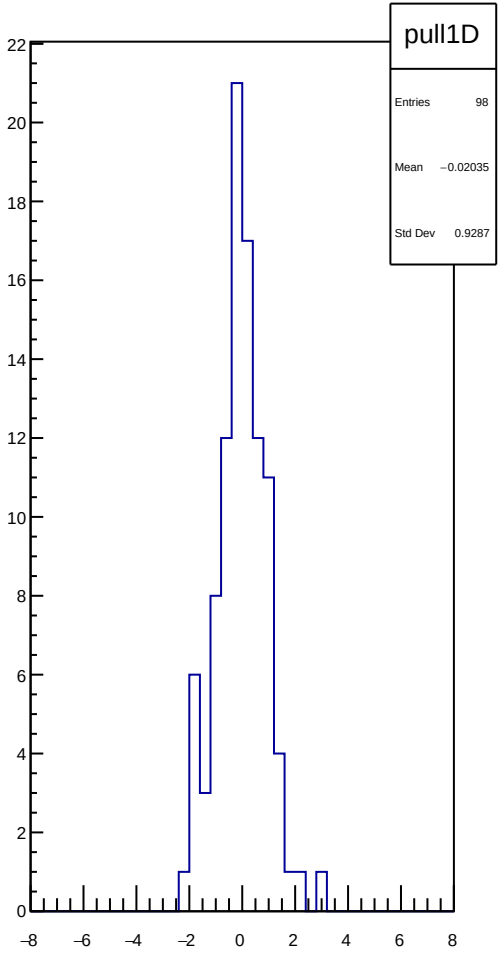

asym_sam1_dit_correction_rms vs run
χ² / ndf 2.139e+04 / 97
p0 421.5 ± 0.3041
550
500
450
400
350

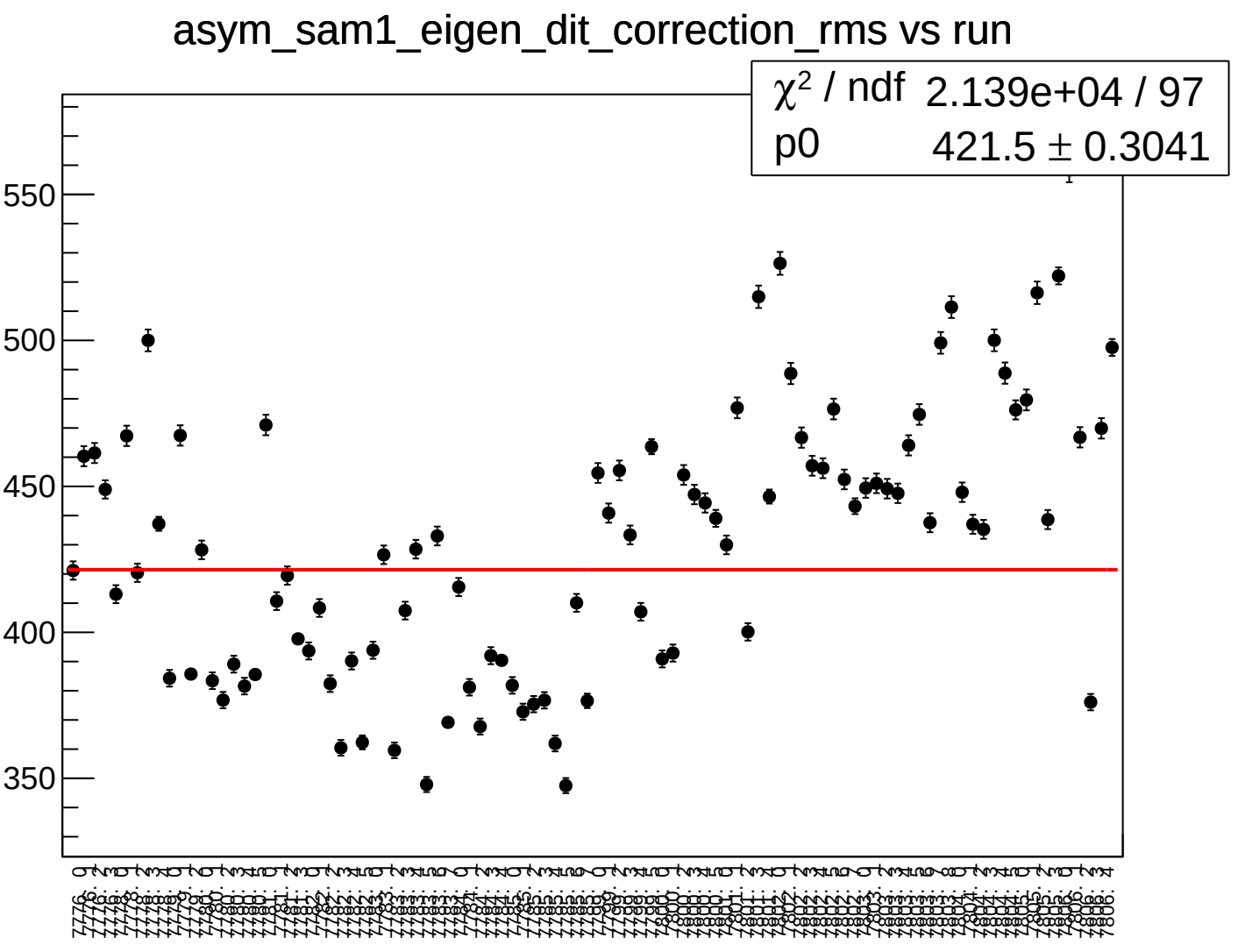

eigen_dit_asym_sam1_mean vs run
χ² / ndf 83.89 / 97
p0 −29.81± 77.3
3000
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 102.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

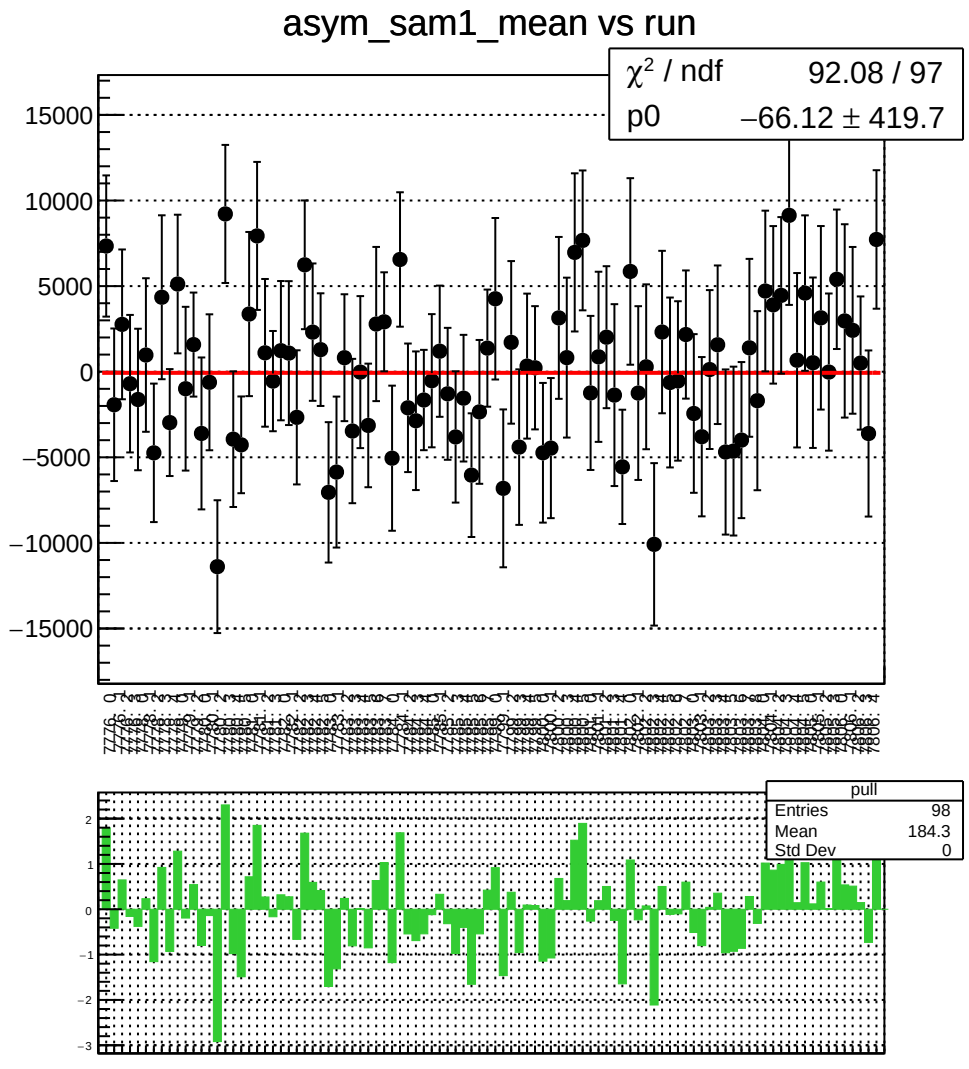

pull1D
Entries 98
Mean −0.01747
Std Dev 0.925
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

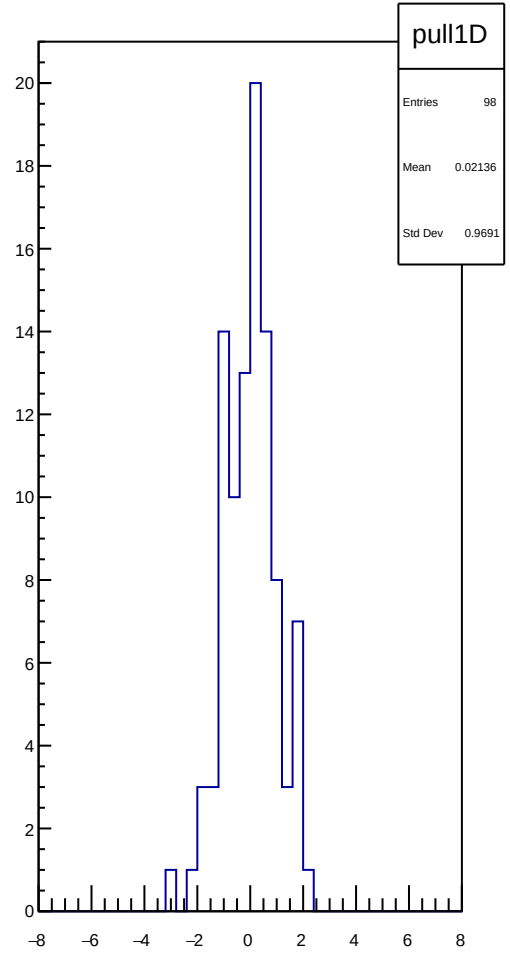

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 5090 / 97
p0 76.09 ± 0.05466
90
85
80
75
70

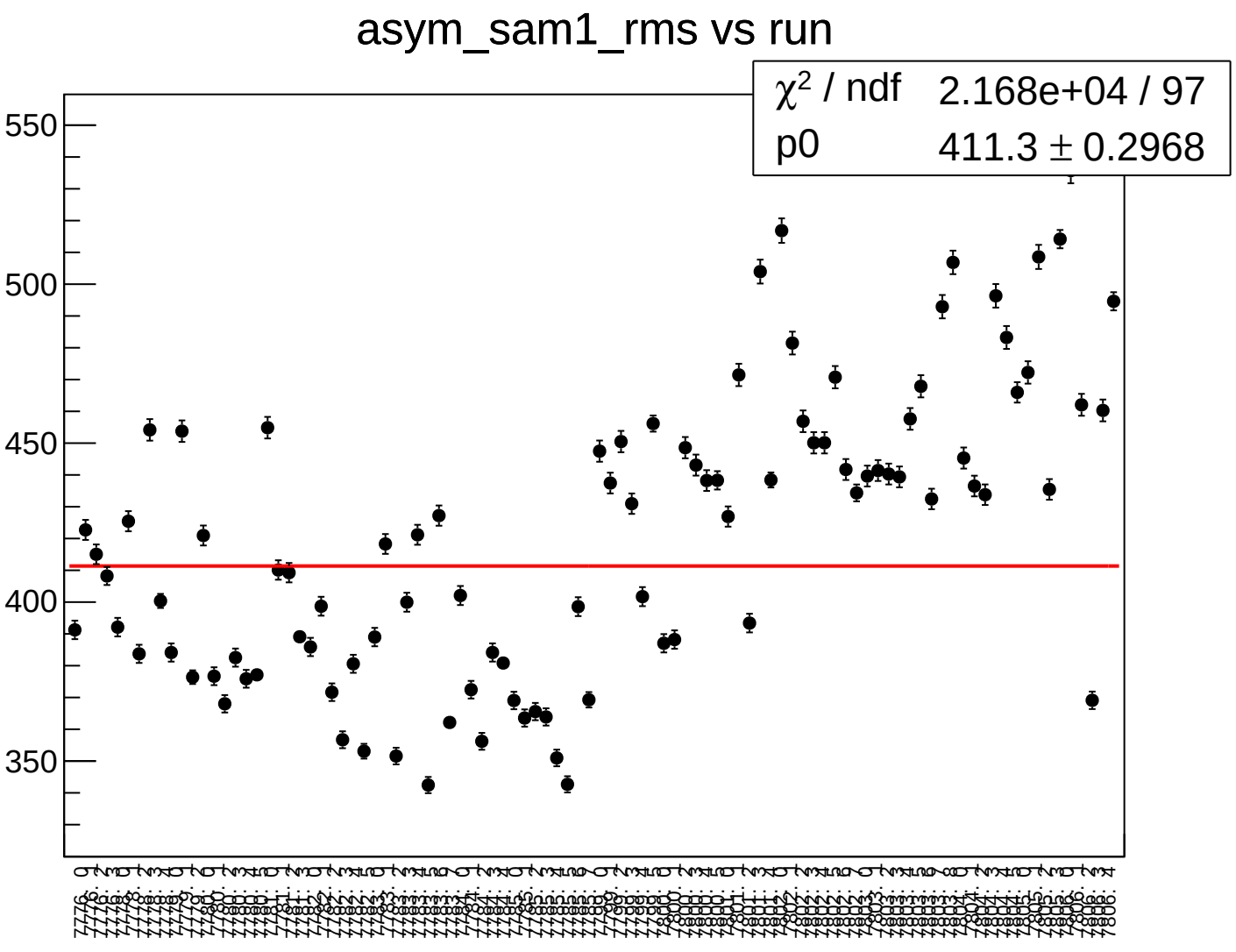

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 84.56 / 97
p0 4.732 ± 430
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 200.9
Std Dev 0
3
2
1
0
−1
−2

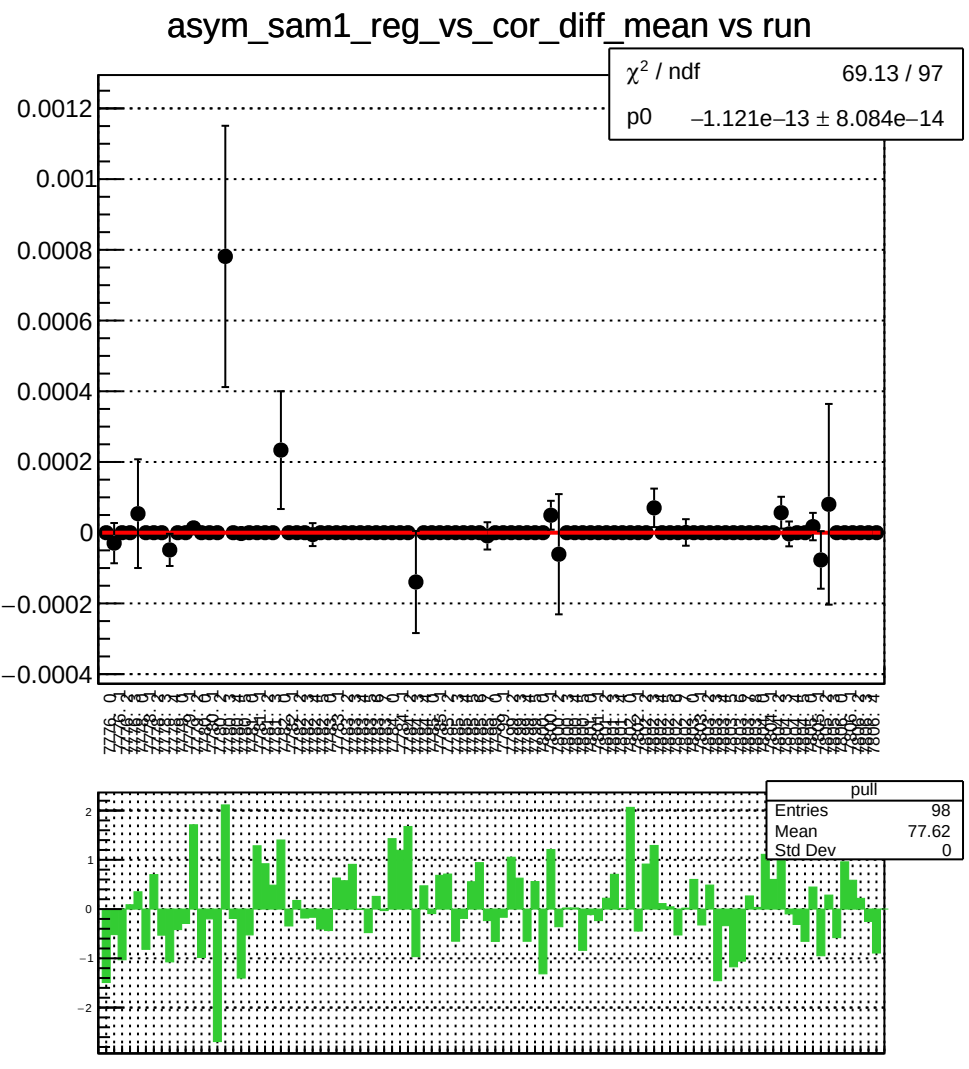

pull1D
Entries 98
Mean −0.02035
Std Dev 0.9287
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

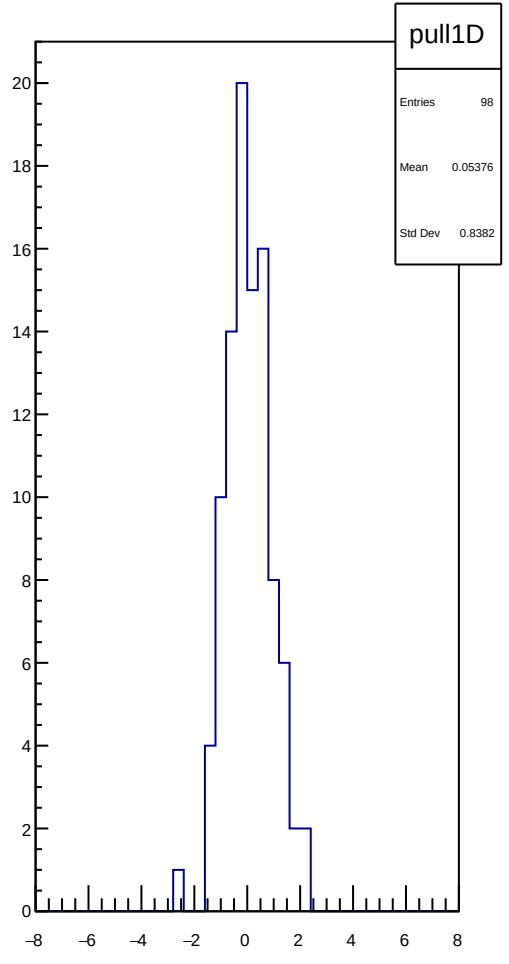

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2.139e+04 / 97
p0 421.5 ± 0.3041
550
500
450
400
350

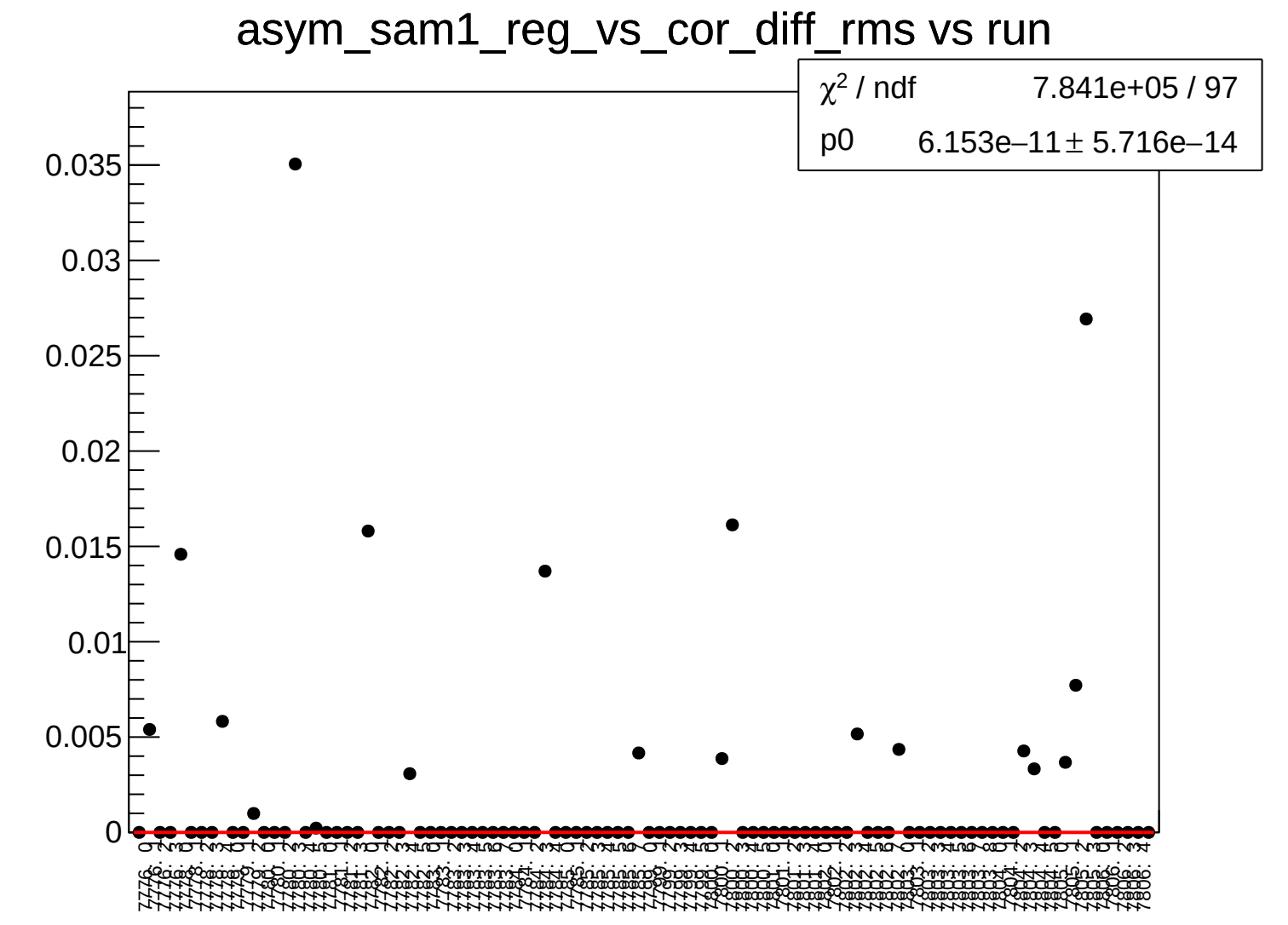

asym_sam1_mean vs run
χ² / ndf 92.08 / 97
p0 −66.12 ± 419.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 184.3
Std Dev 0
2
1
0
−1
−2
−3

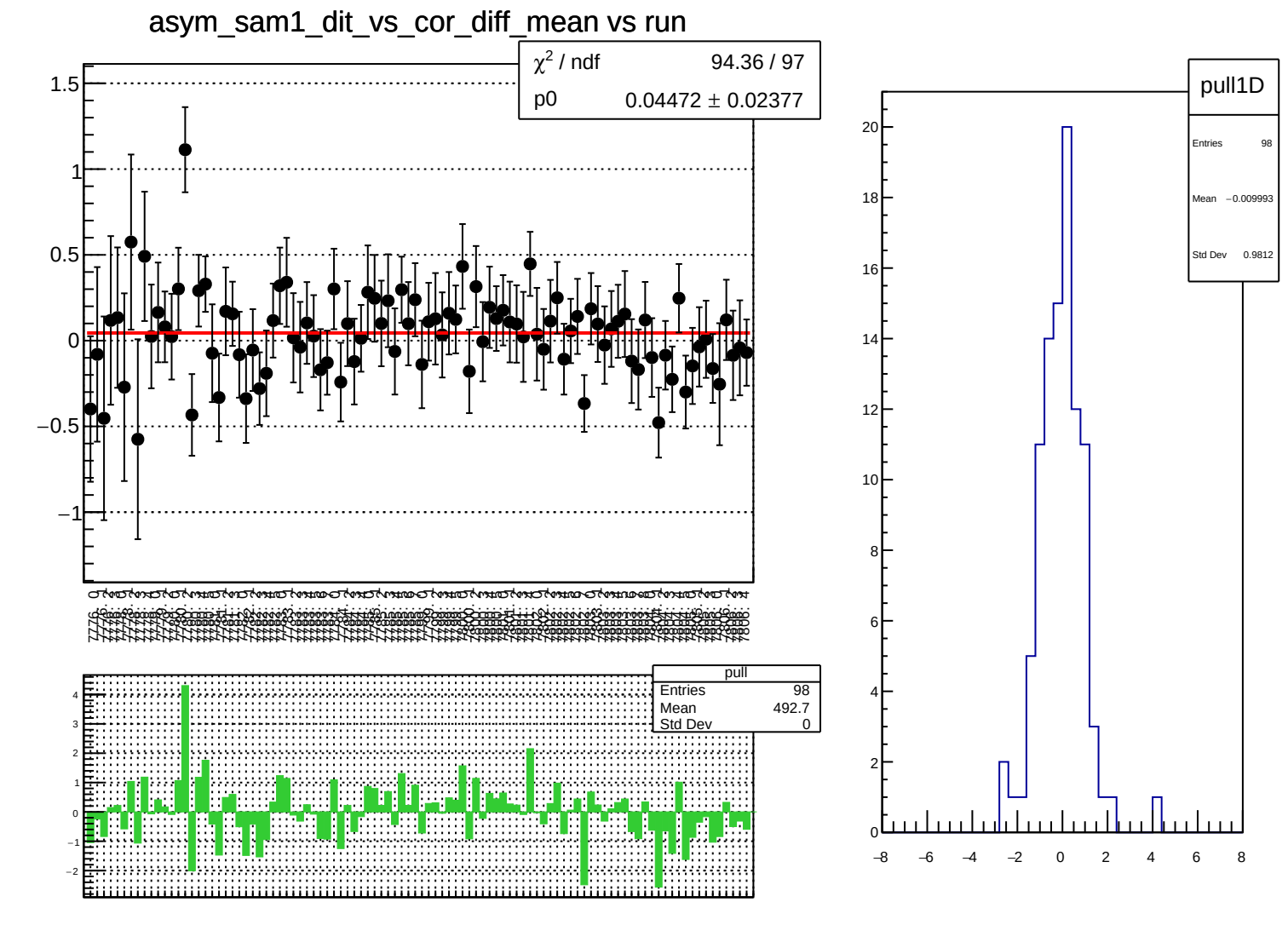

pull1D
Entries 98
Mean 0.02136
Std Dev 0.9691
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

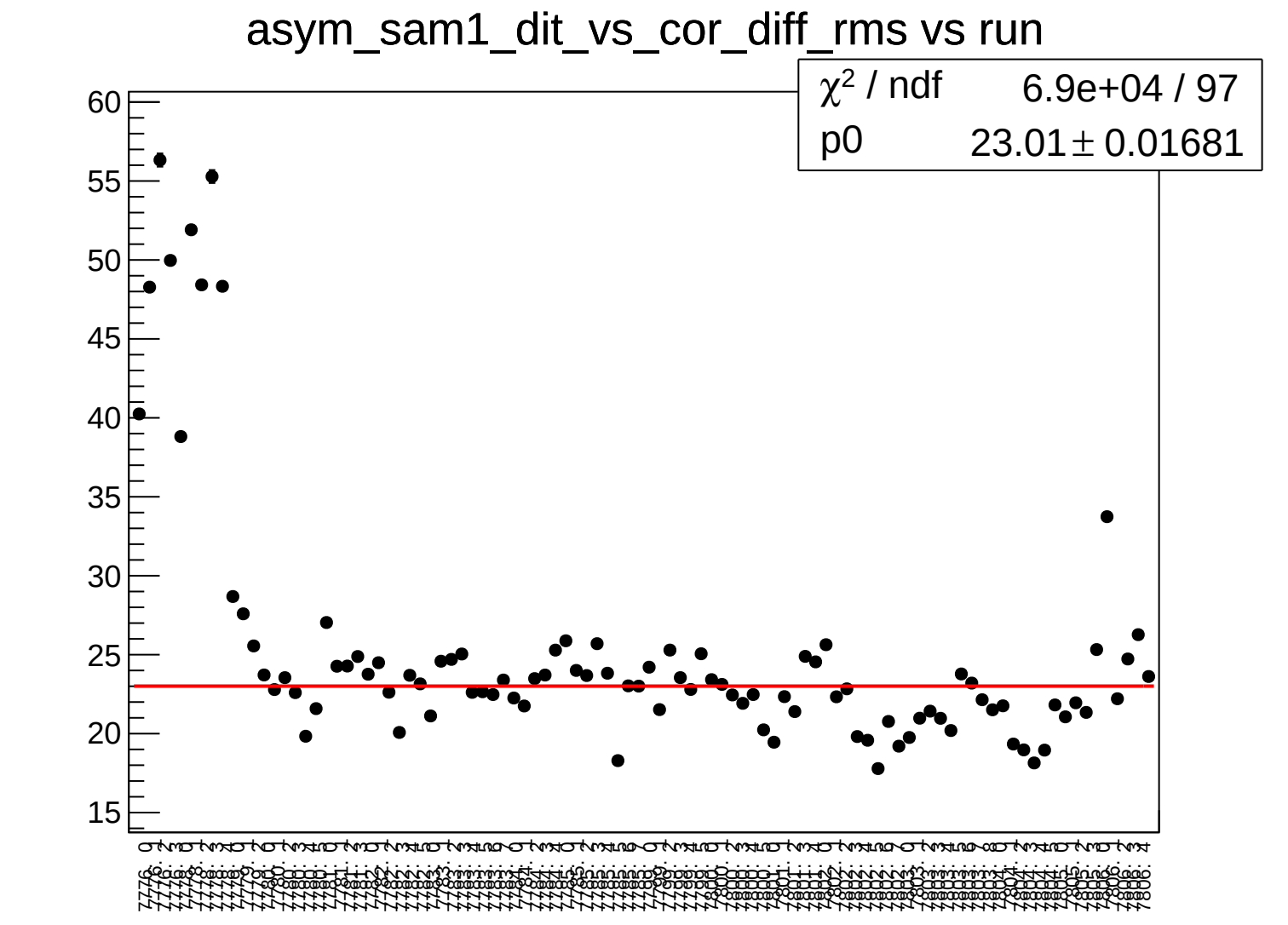

asym_sam1_rms vs run
χ^2 / ndf 2.168e+04 / 97
p0 411.3 ± 0.2968
550
500
450
400
350

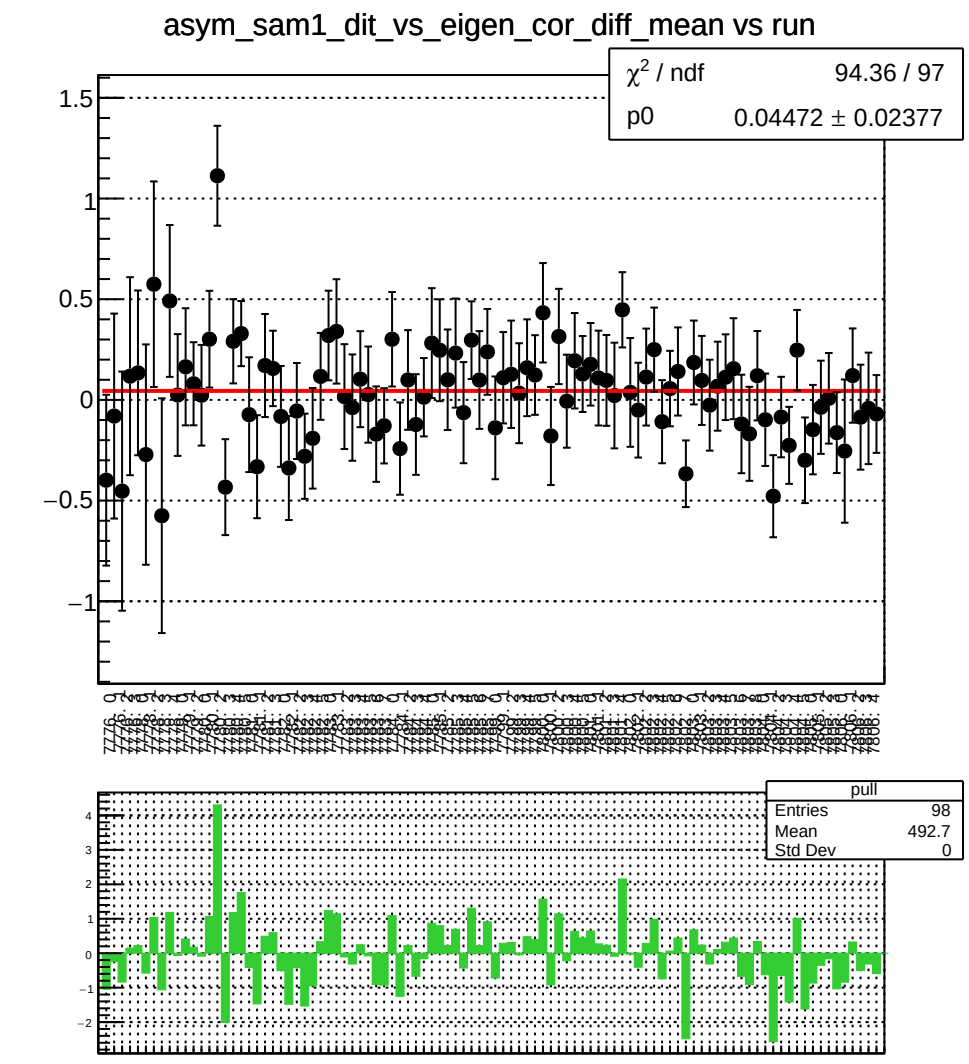

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 69.13 / 97
p0 −1.121e−13 ± 8.084e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 98
Mean 77.62
Std Dev 0
2
1
0
−1
−2

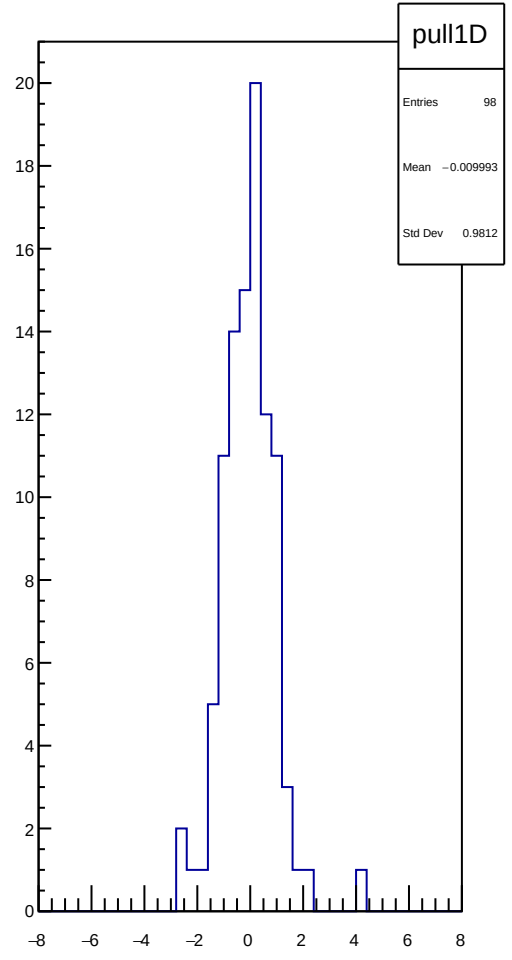

pull1D
Entries 98
Mean 0.05376
Std Dev 0.8382
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

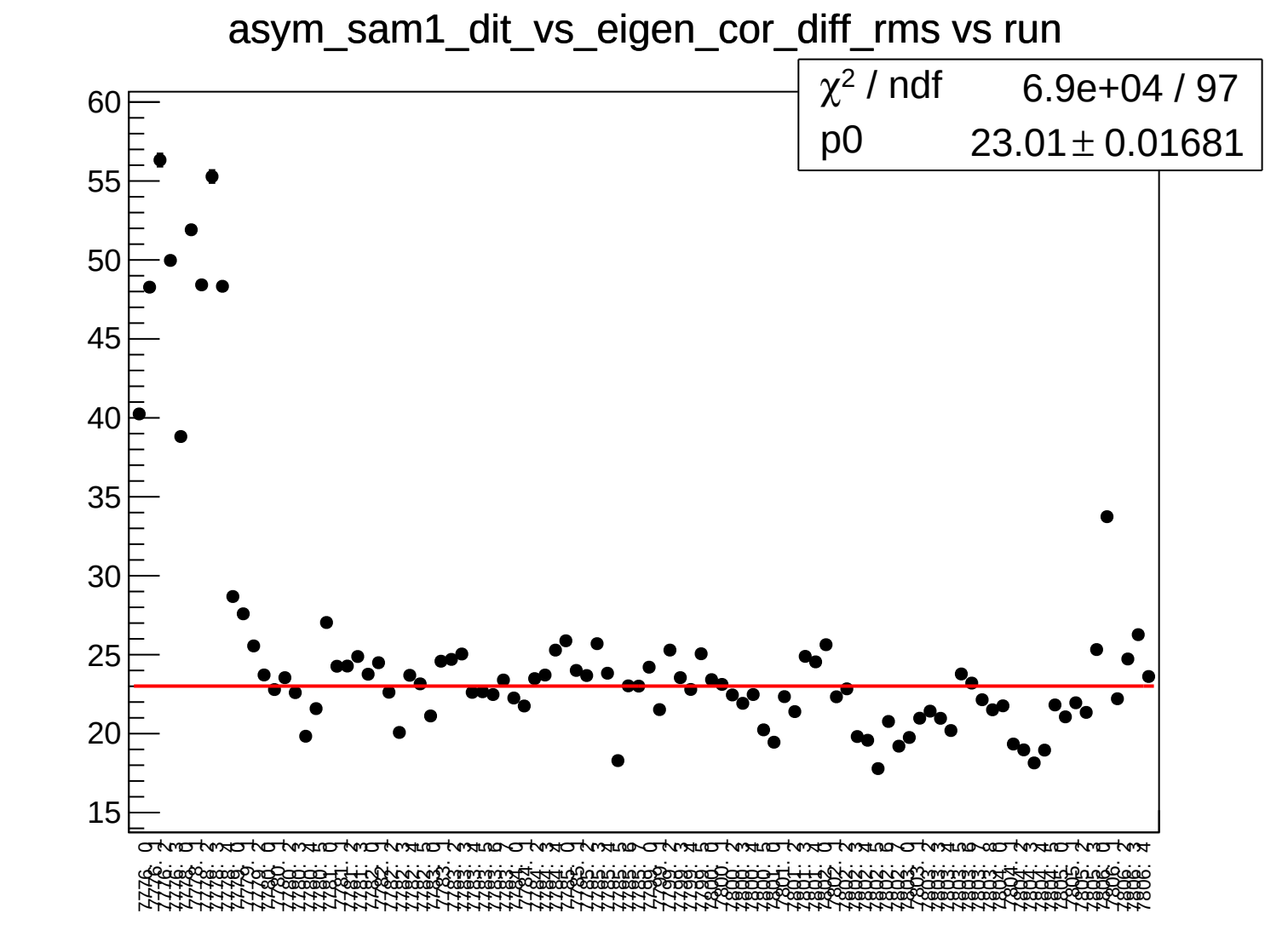

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 7.841e+05 / 97
p0 6.153e−11 ± 5.716e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

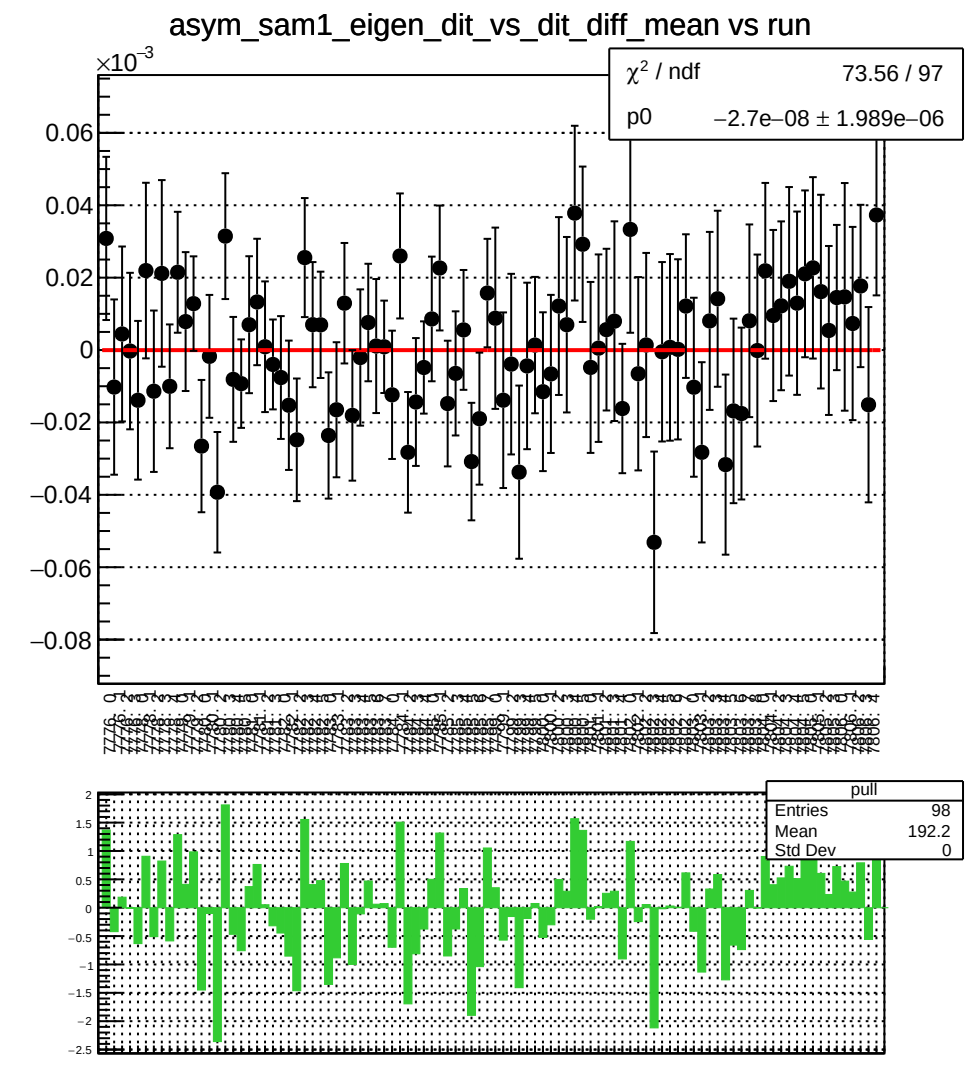

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 94.36 / 97
p0 0.04472 ± 0.02377
pull
Entries 98
Mean 492.7
Std Dev 0
pull1D
Entries 98
Mean −0.009993
Std Dev 0.9812

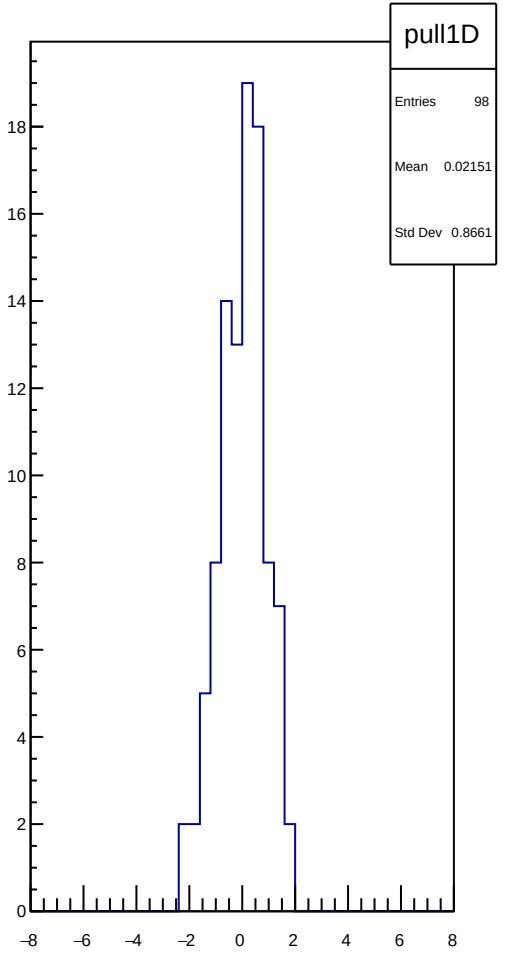

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 6.9e+04 / 97
p0 23.01 ± 0.01681
60
55
50
45
40
35
30
25
20
15

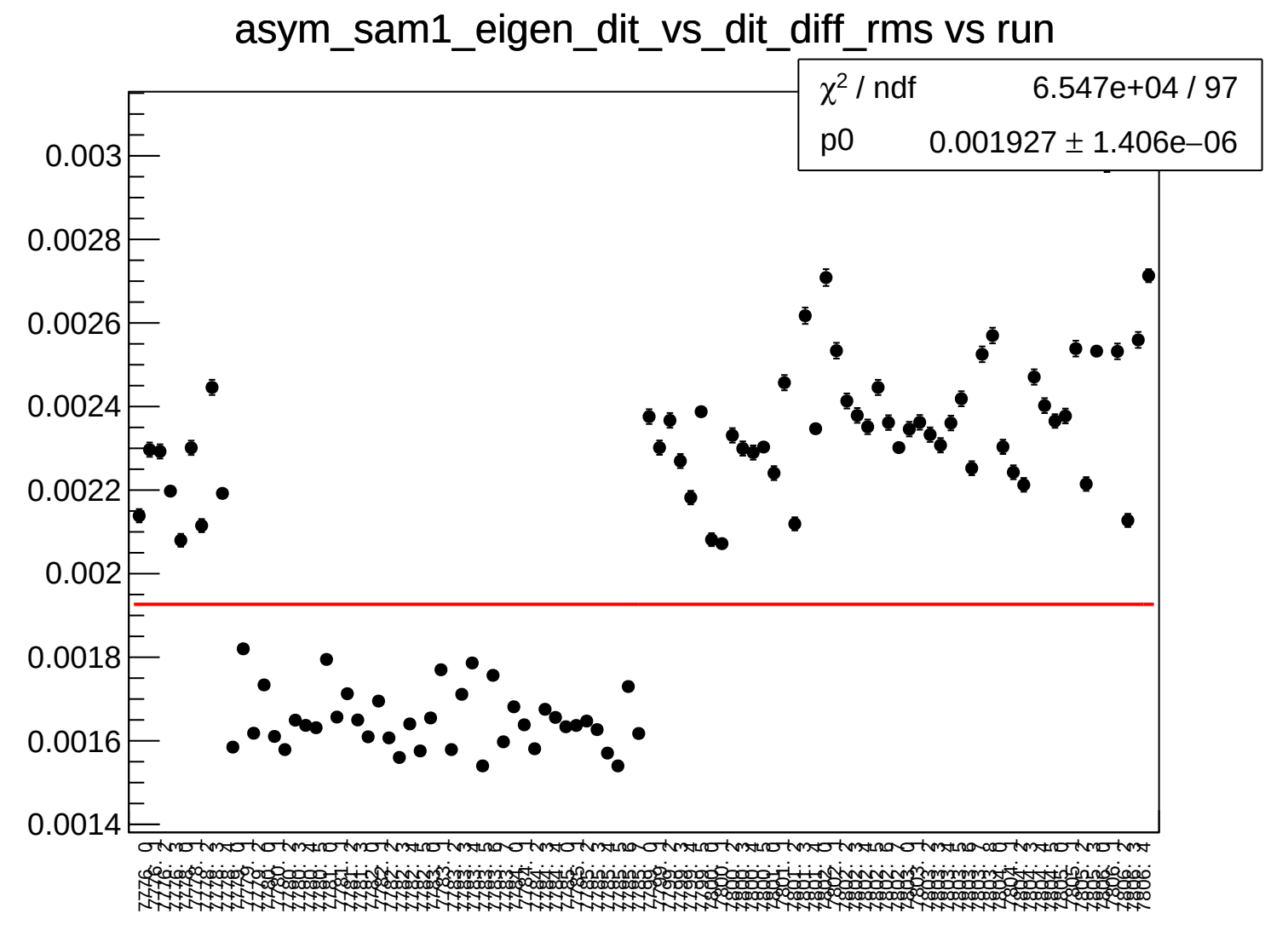

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.36 / 97
p0 0.04472 ± 0.02377
pull
Entries 98
Mean 492.7
Std Dev 0

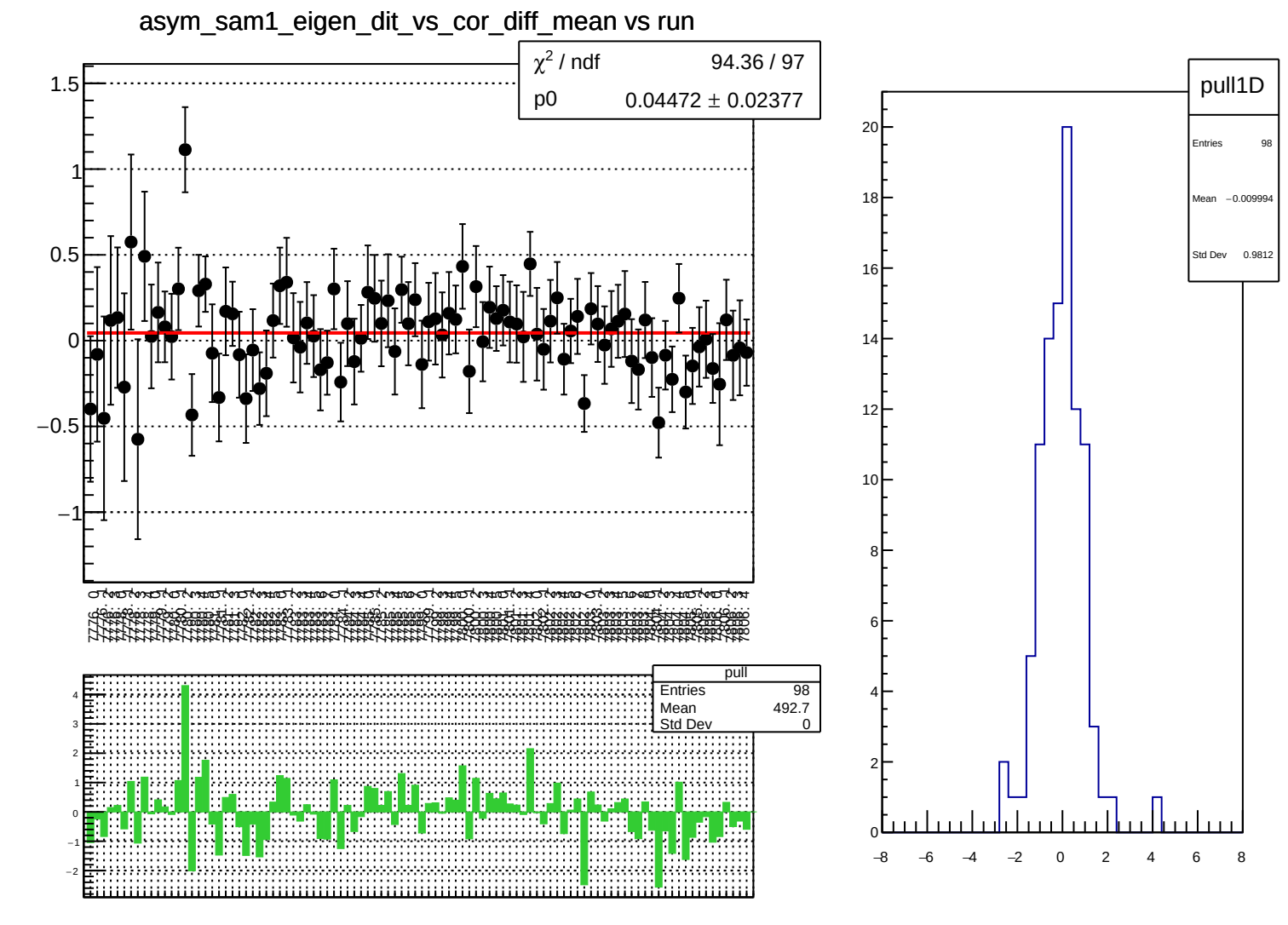

pull1D
Entries 98
Mean −0.009993
Std Dev 0.9812

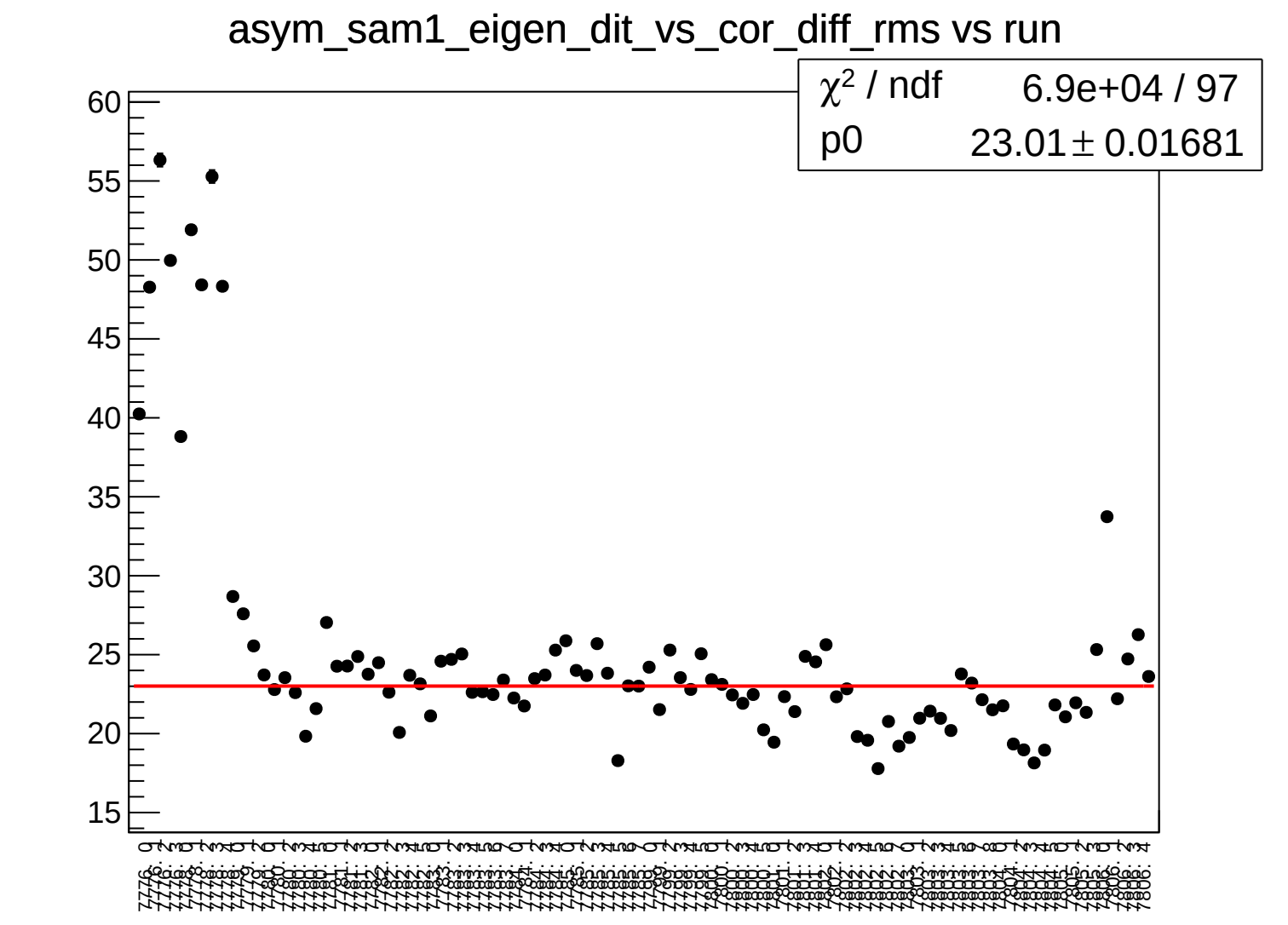

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.9e+04 / 97
p0 23.01 ± 0.01681
60
55
50
45
40
35
30
25
20
15

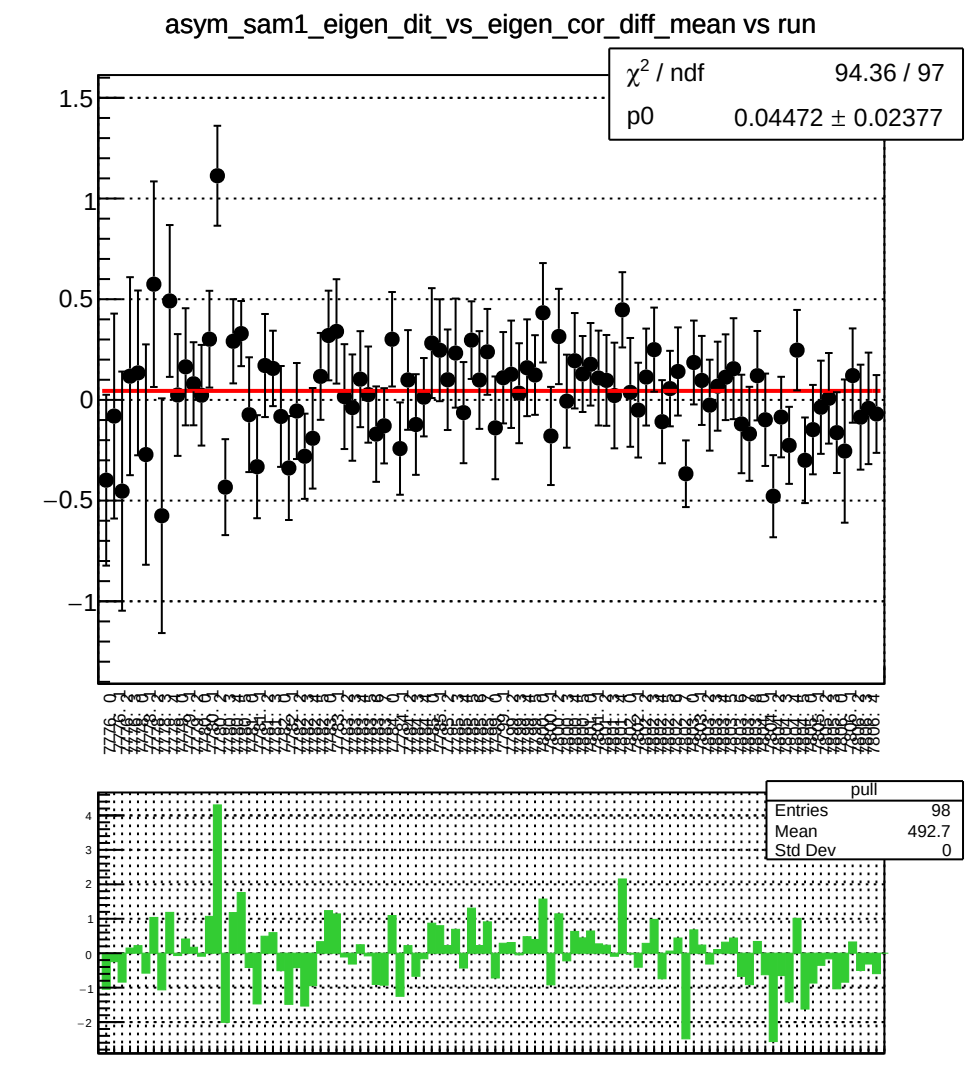

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.56 / 97
p0 −2.7e−08 ± 1.989e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 98
Mean 192.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

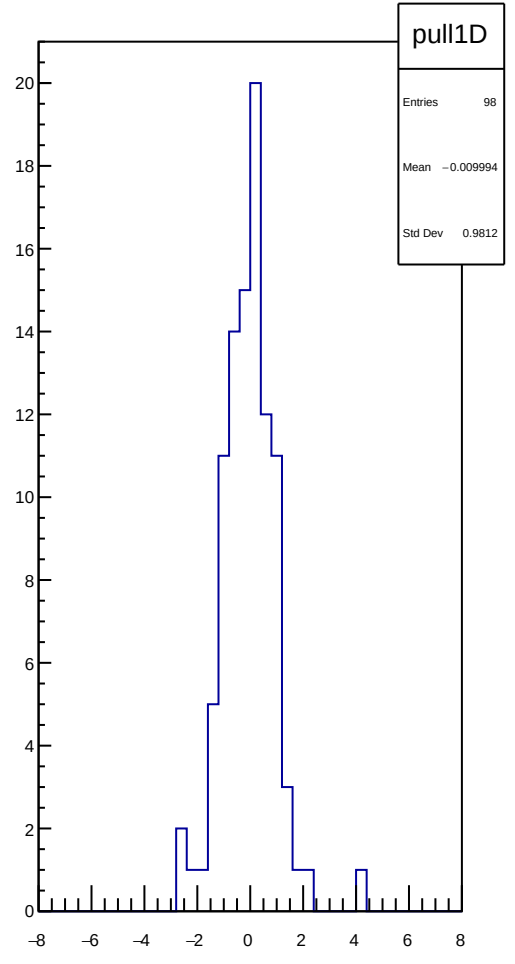

pull1D
Entries 98
Mean 0.02151
Std Dev 0.8661
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

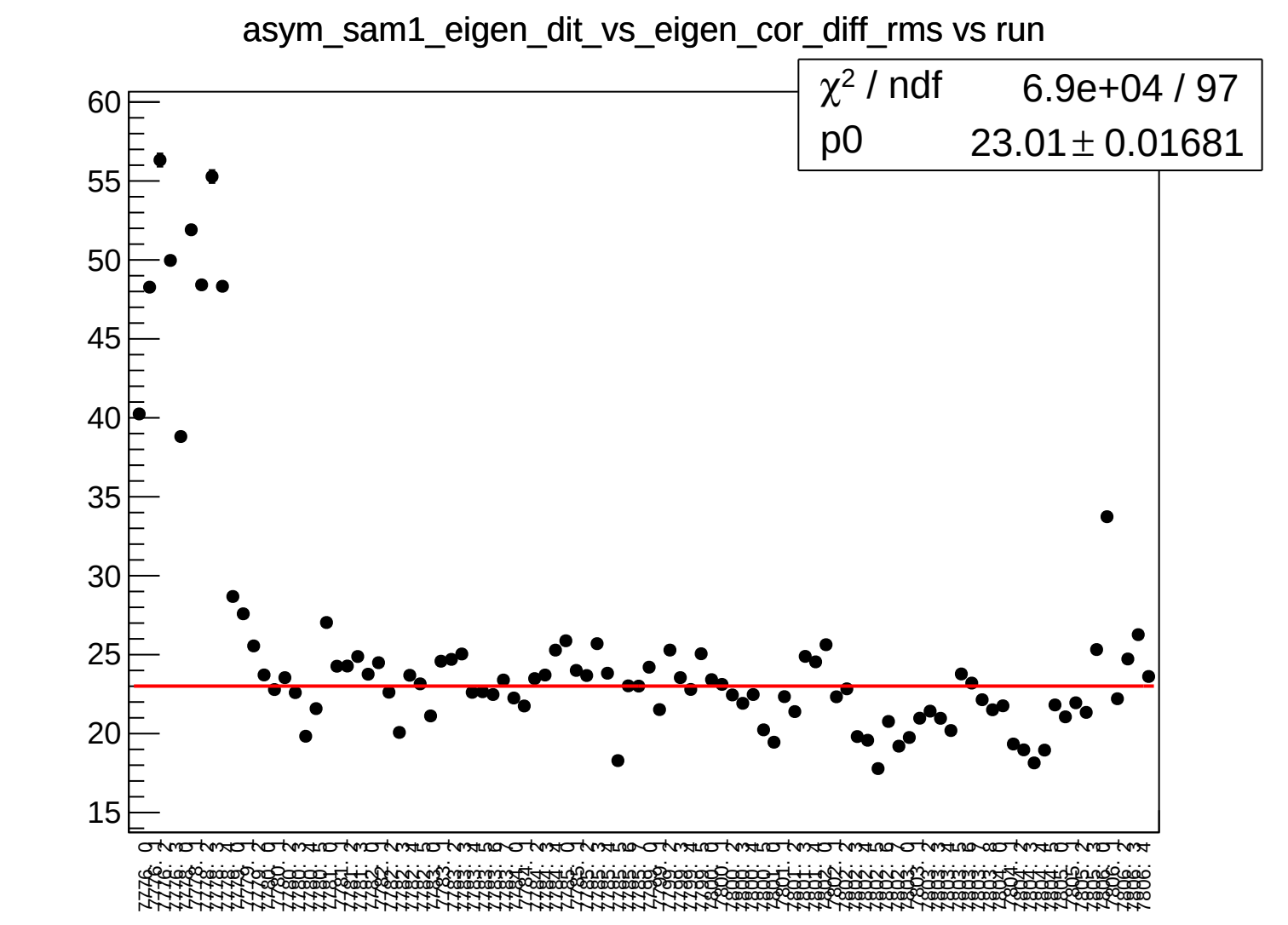

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.547e+04 / 97
p0 0.001927 ± 1.406e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

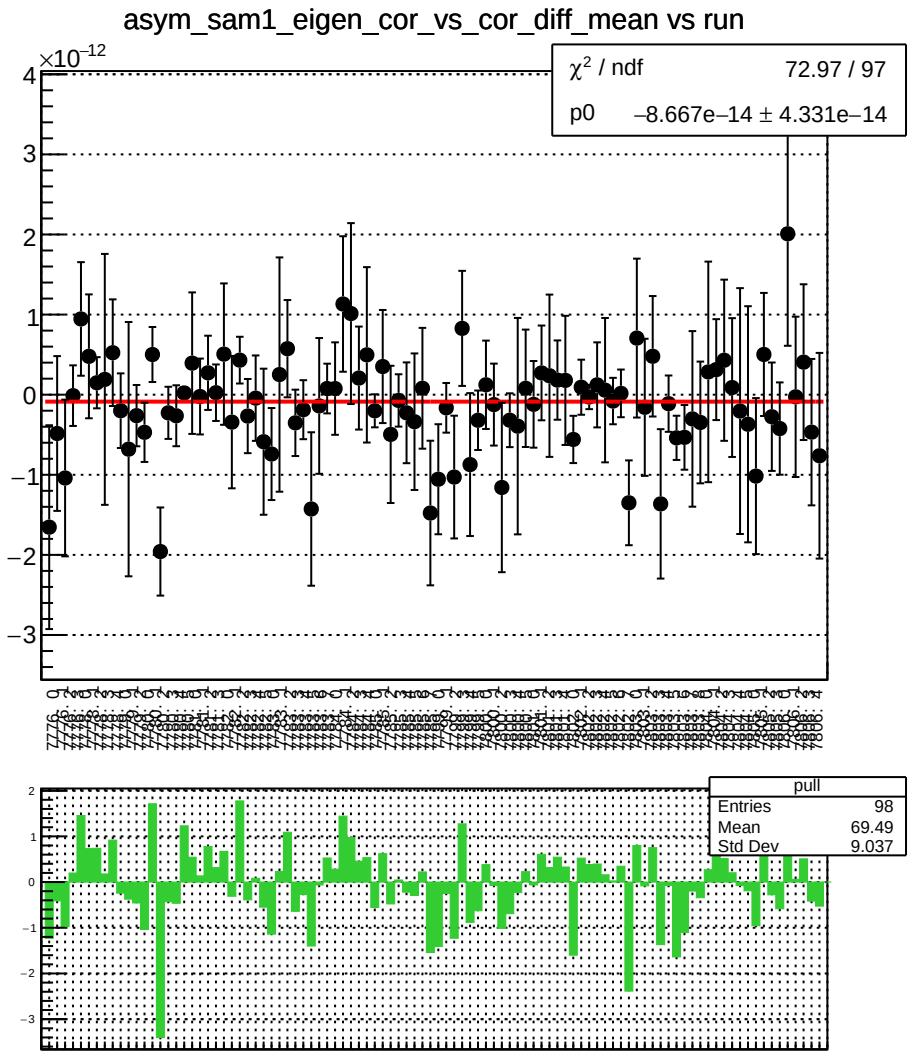

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.36 / 97
p0 0.04472 ± 0.02377
pull
Entries 98
Mean 492.7
Std Dev 0
pull1D
Entries 98
Mean −0.009994
Std Dev 0.9812

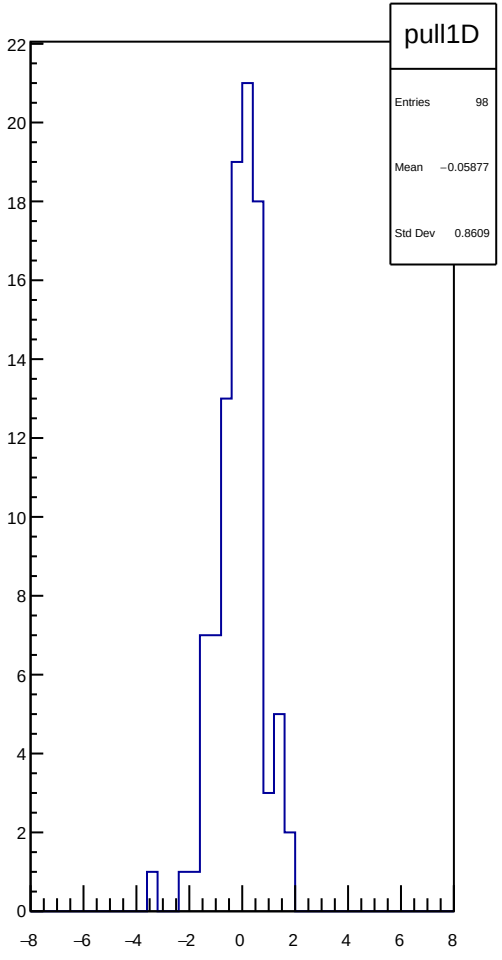

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.9e+04 / 97
p0 23.01 ± 0.01681
60
55
50
45
40
35
30
25
20
15

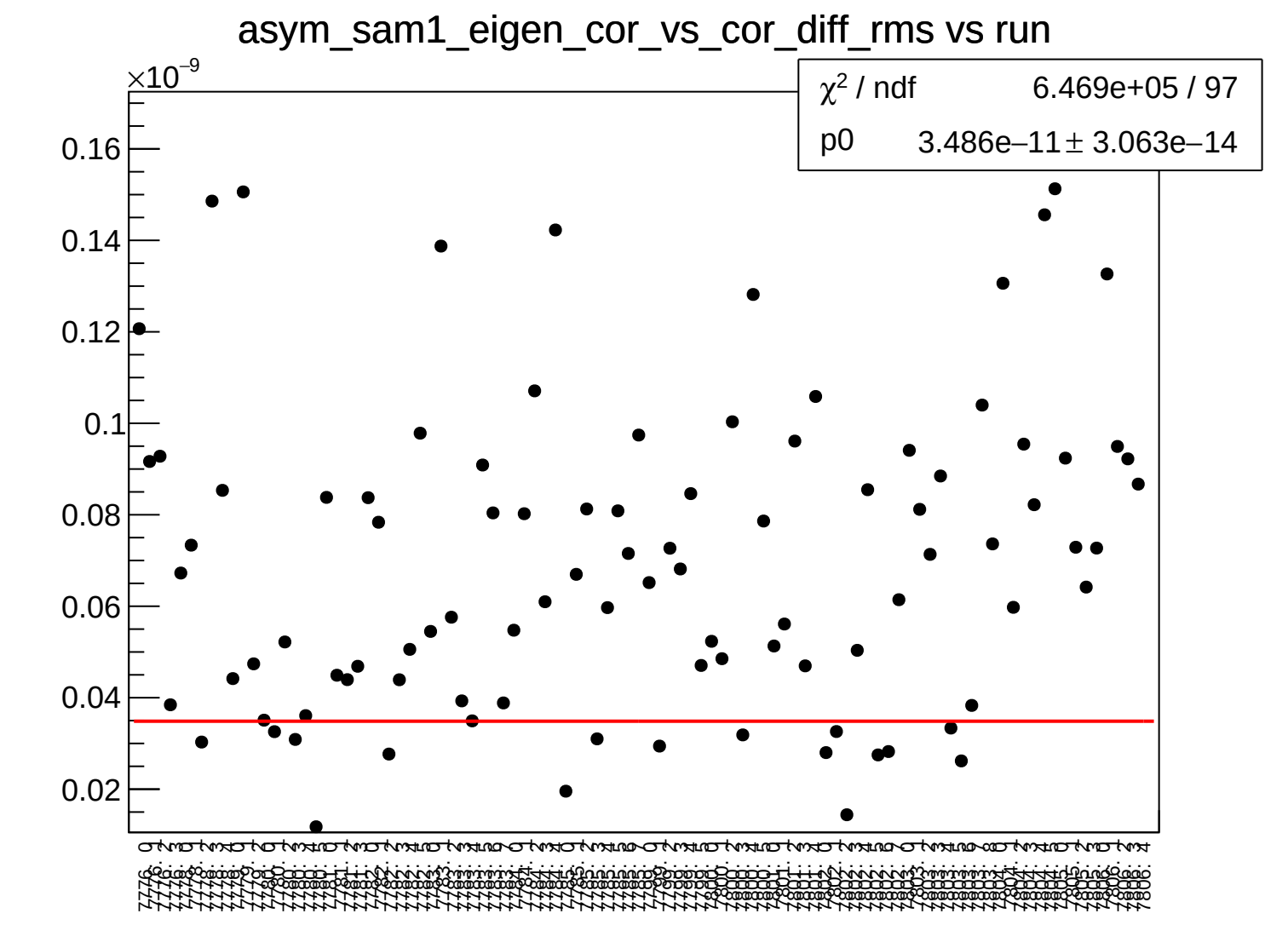

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.36 / 97
p0 0.04472 ± 0.02377
pull
Entries 98
Mean 492.7
Std Dev 0

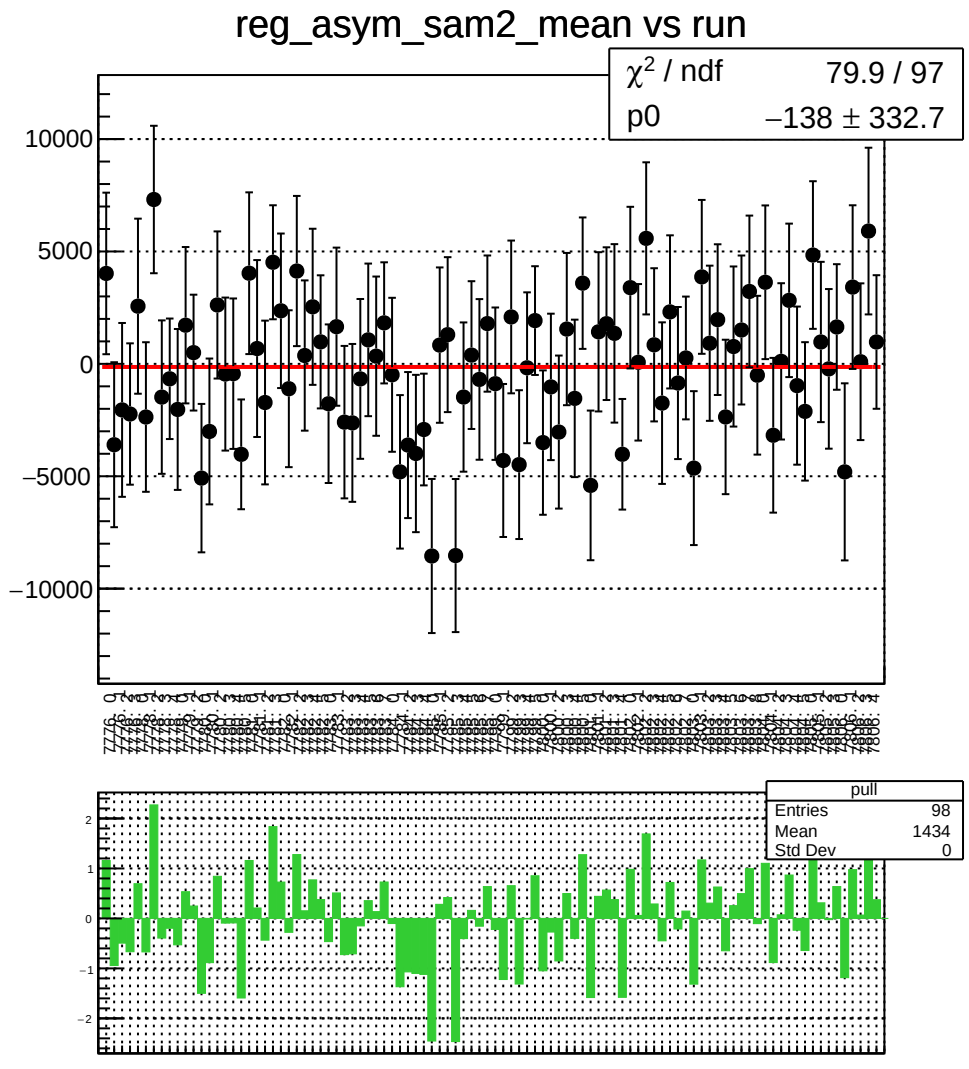

pull1D
Entries 98
Mean −0.009994
Std Dev 0.9812

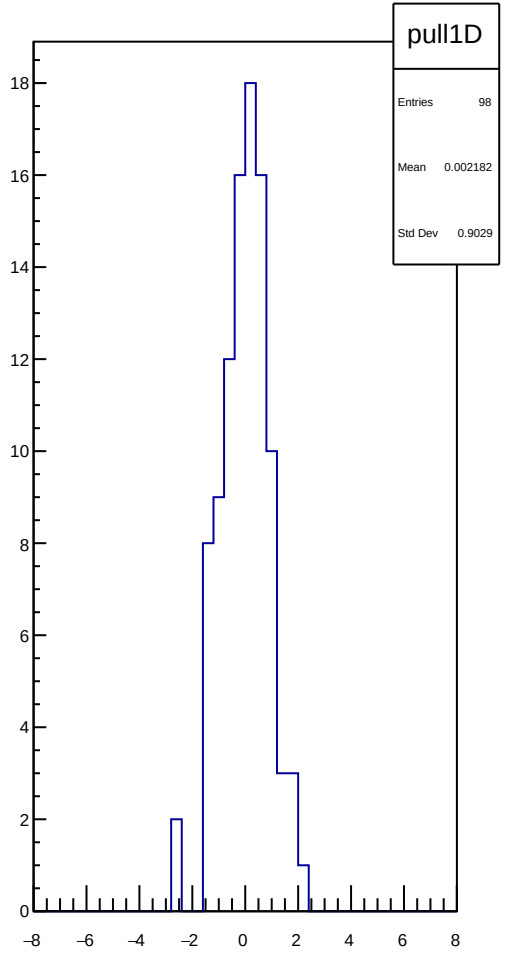

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.9e+04 / 97
p0 23.01 ± 0.01681
60
55
50
45
40
35
30
25
20
15

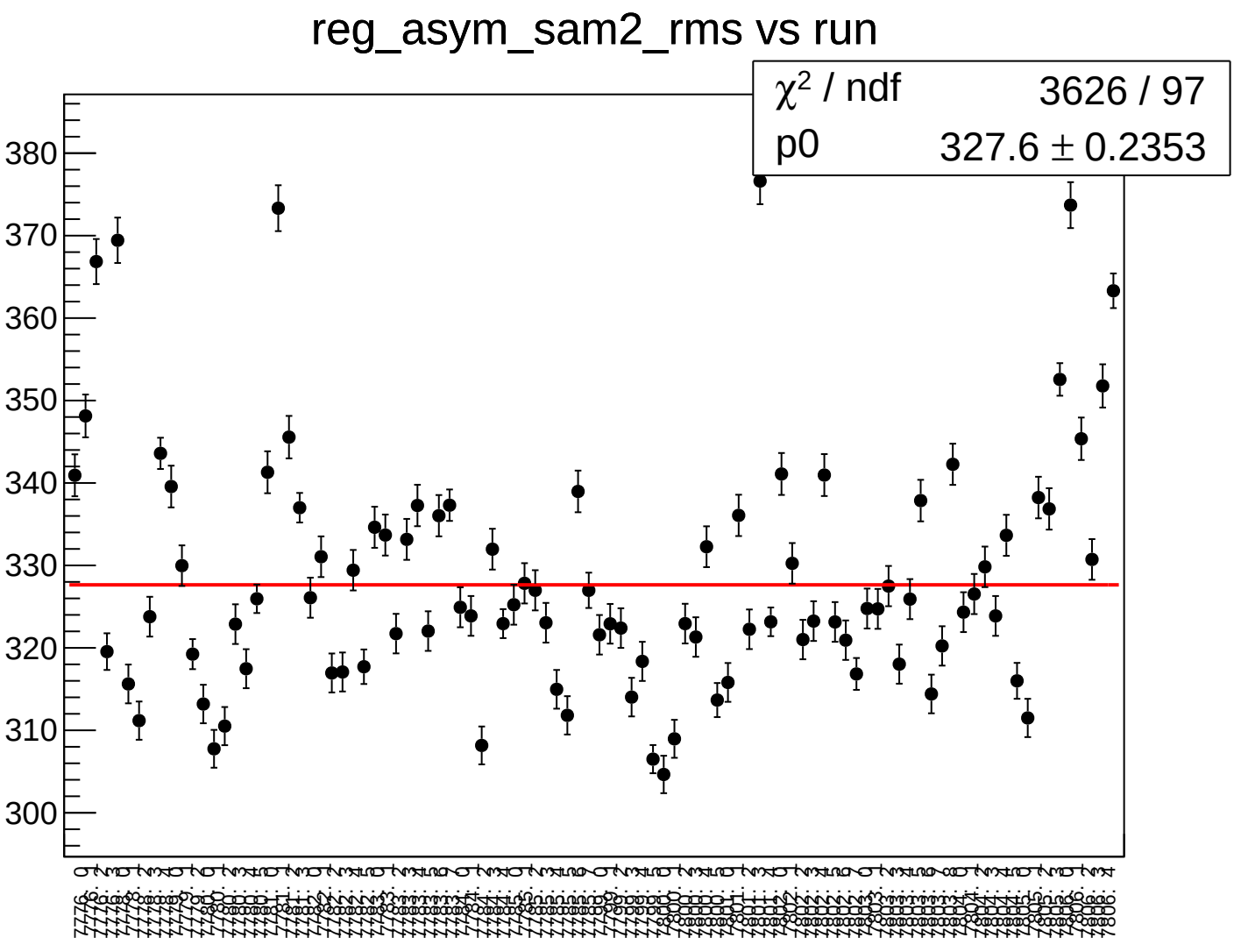

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.97 / 97
p0 −8.667e−14 ± 4.331e−14
pull
Entries 98
Mean 69.49
Std Dev 9.037

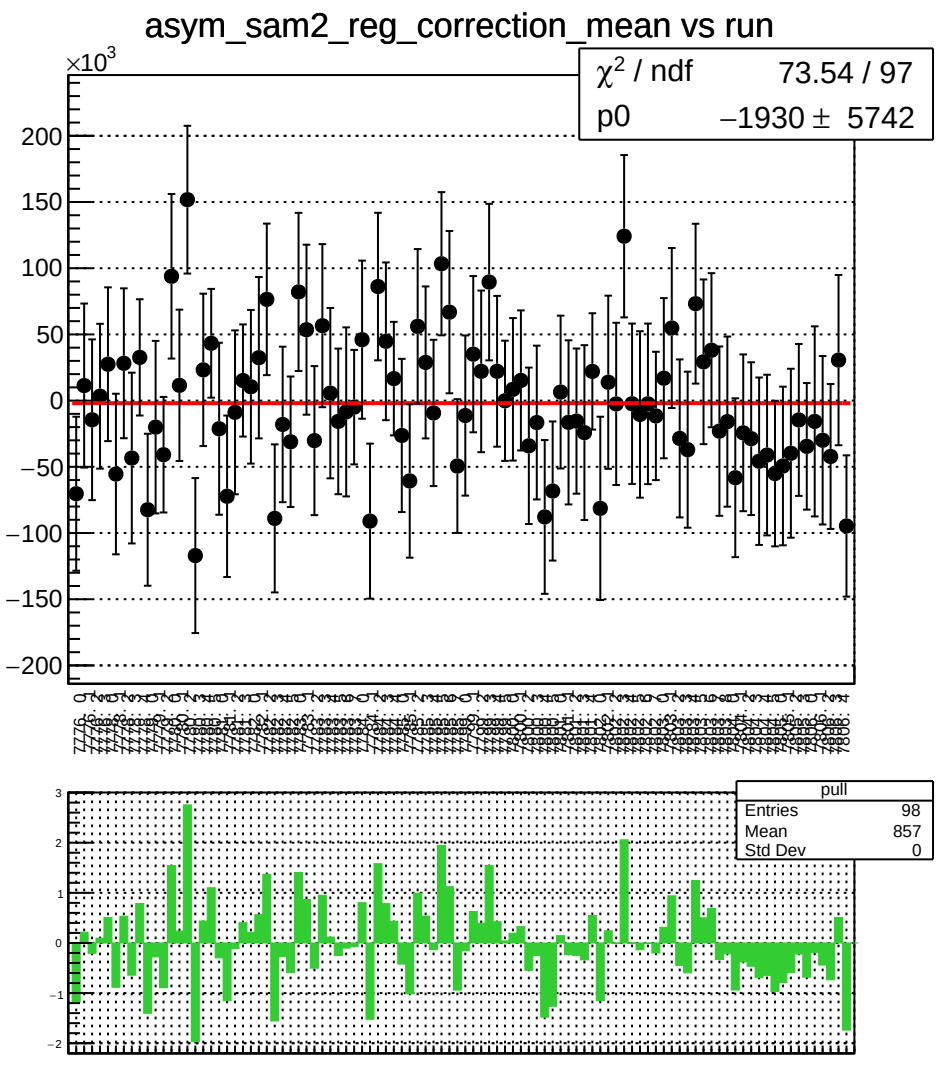

pull1D
Entries 98
Mean −0.05877
Std Dev 0.8609

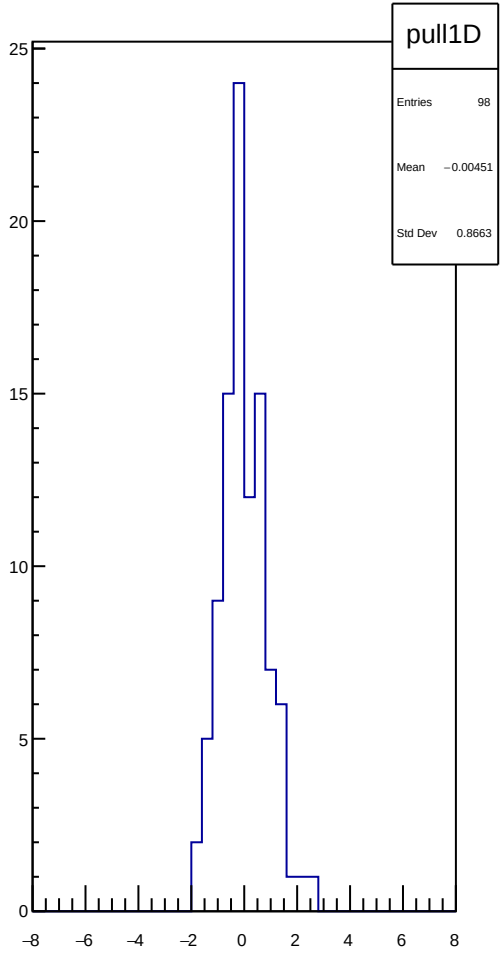

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.469e+05 / 97
p0 3.486e−11 ± 3.063e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

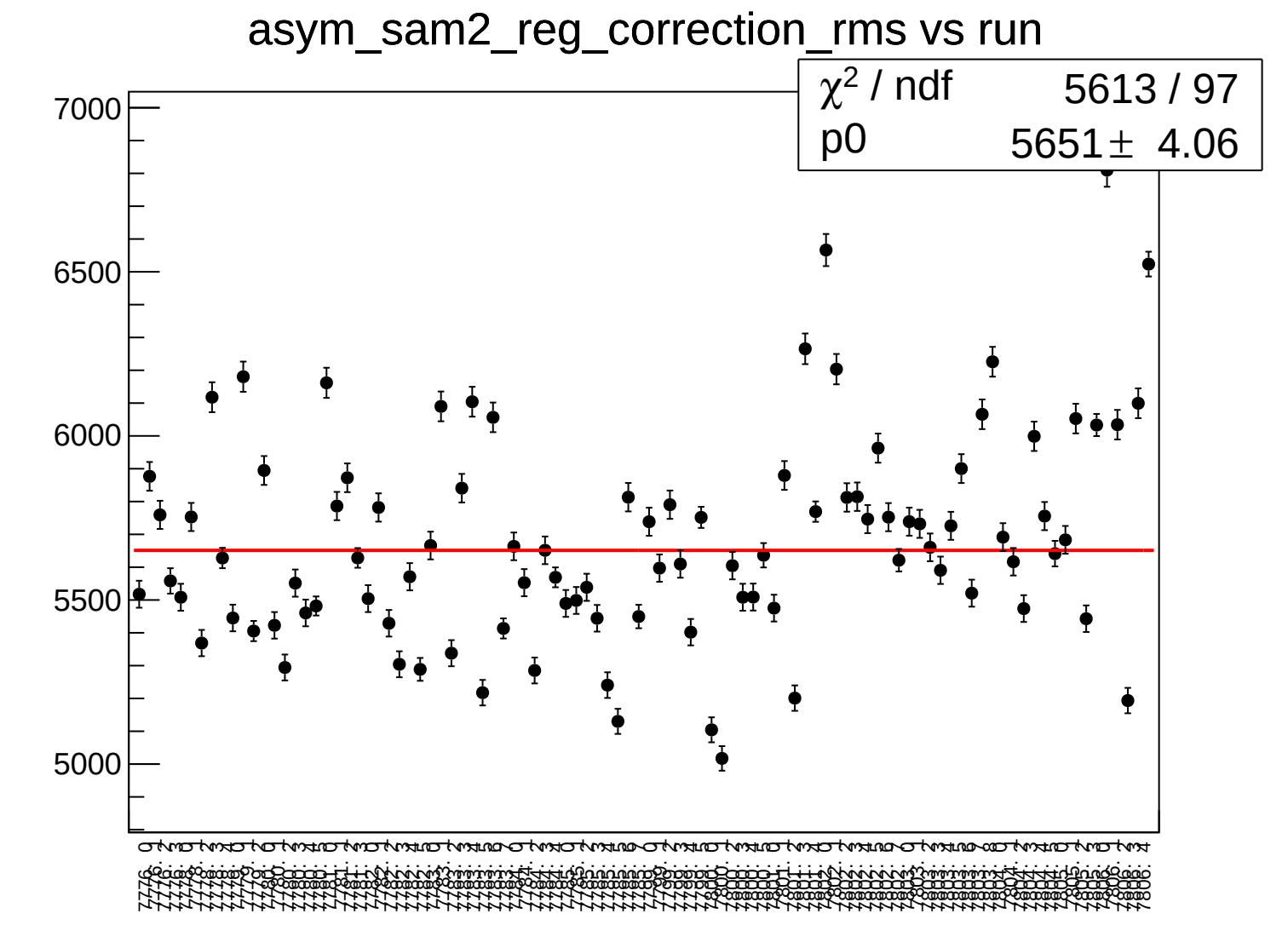

reg_asym_sam2_mean vs run
χ² / ndf 79.9 / 97
p0 −138 ± 332.7
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 1434
Std Dev 0
2
1
0
−1
−2

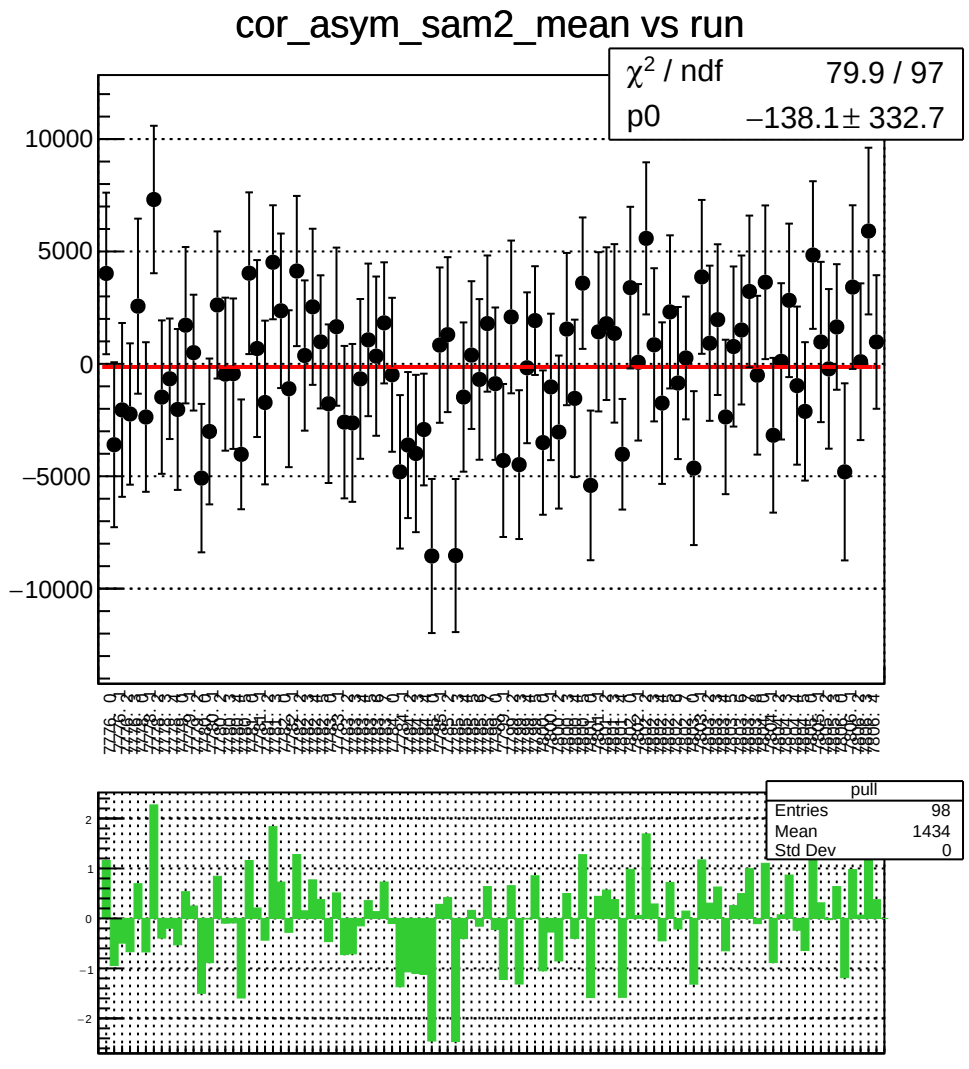

pull1D
Entries 98
Mean 0.002182
Std Dev 0.9029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

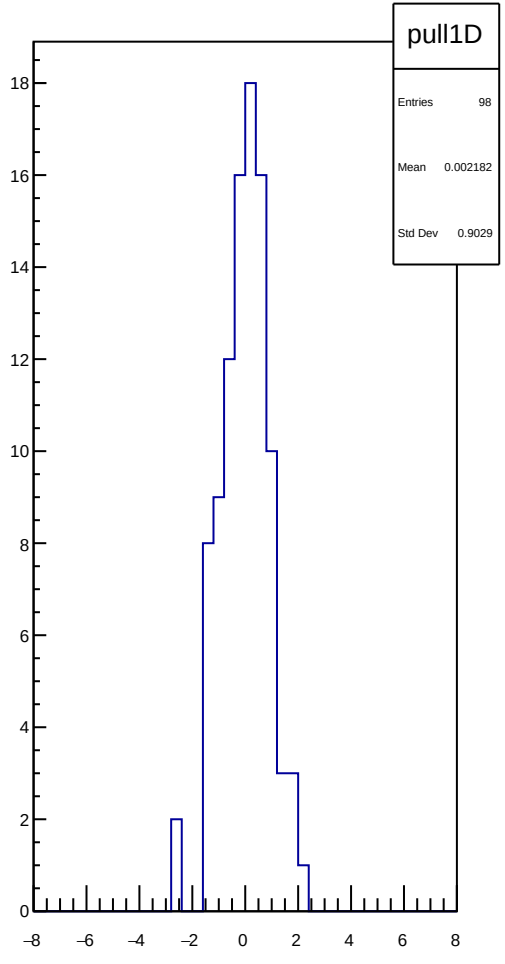

reg_asym_sam2_rms vs run
χ² / ndf 3626 / 97
p0 327.6 ± 0.2353
380
370
360
350
340
330
320
310
300

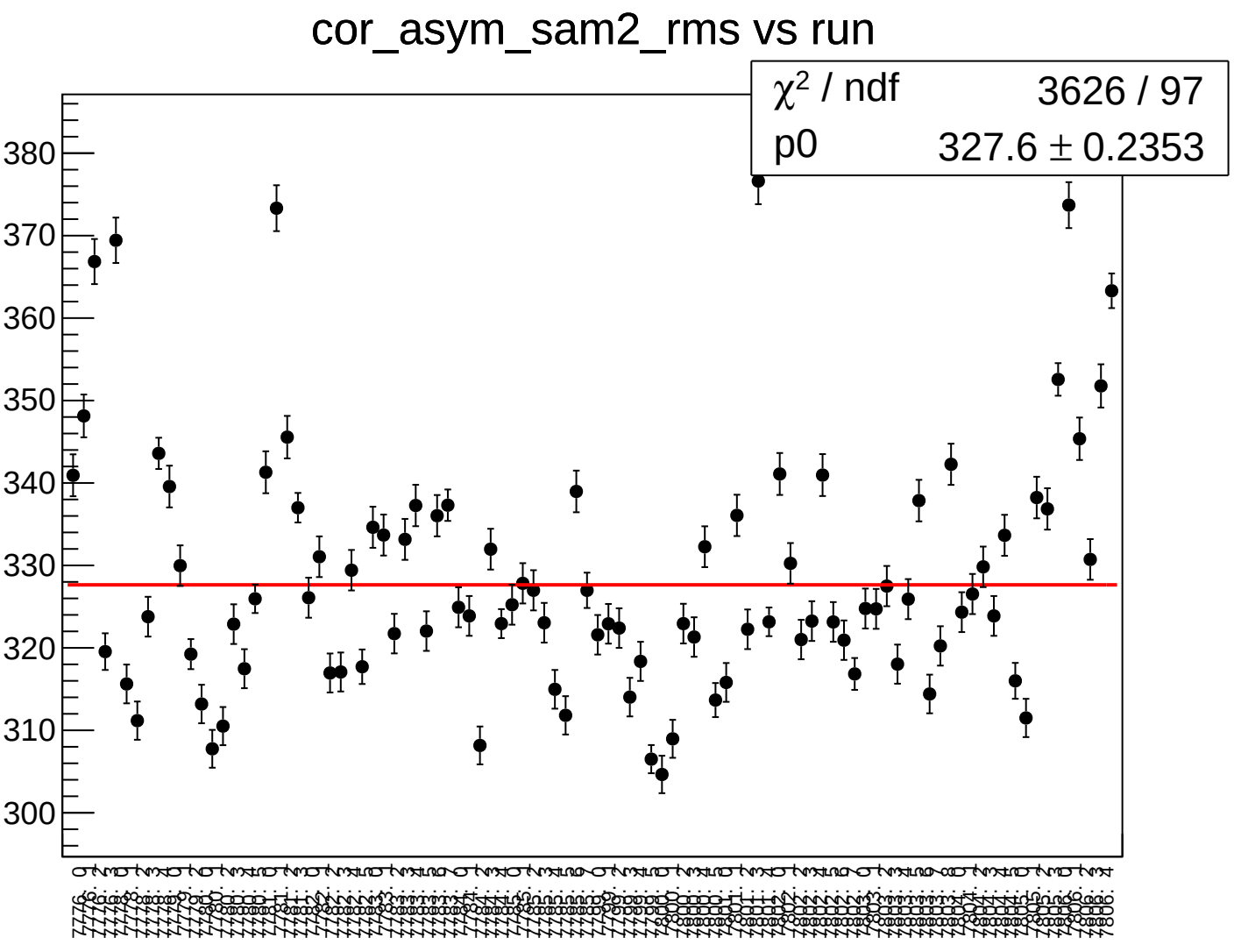

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 73.54 / 97
p0 −1930 ± 5742
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 857
Std Dev 0
3
2
1
0
−1
−2

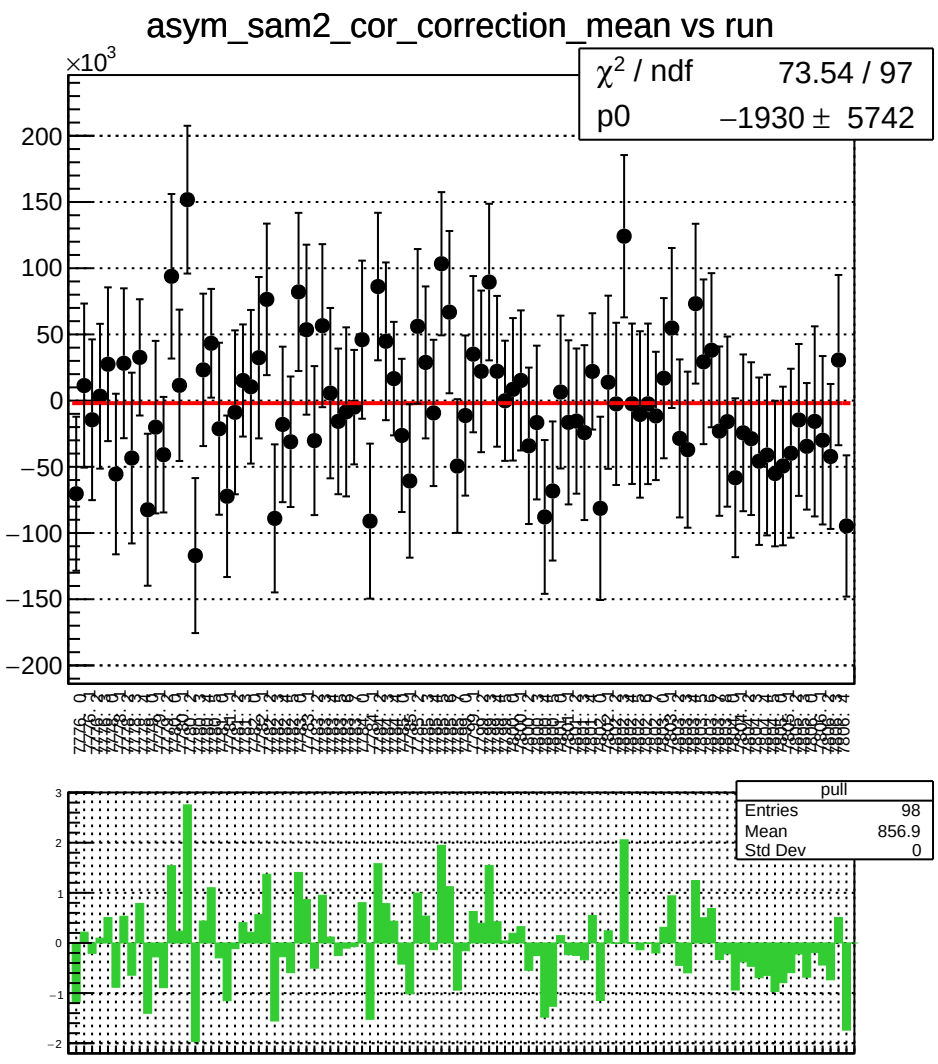

pull1D
Entries 98
Mean −0.00451
Std Dev 0.8663
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

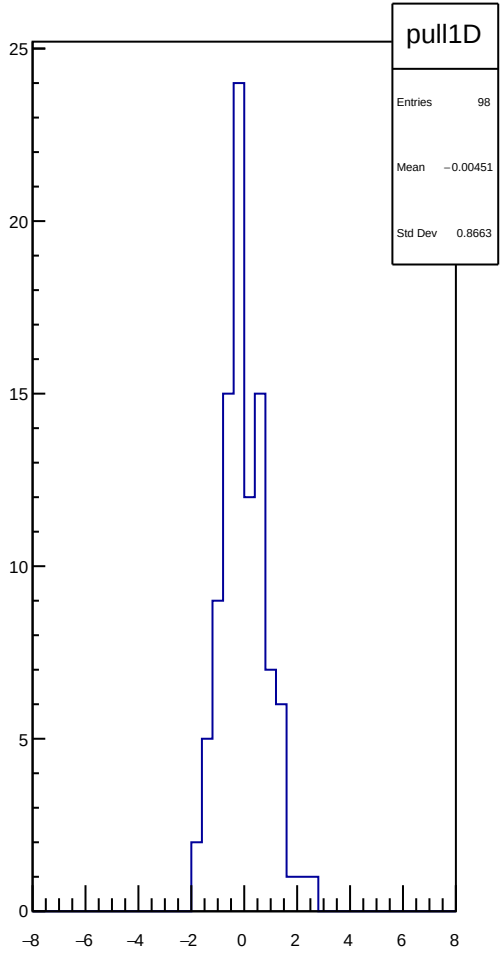

asym_sam2_reg_correction_rms vs run
χ^2 / ndf 5613 / 97
p0 5651 ± 4.06
7000
6500
6000
5500
5000

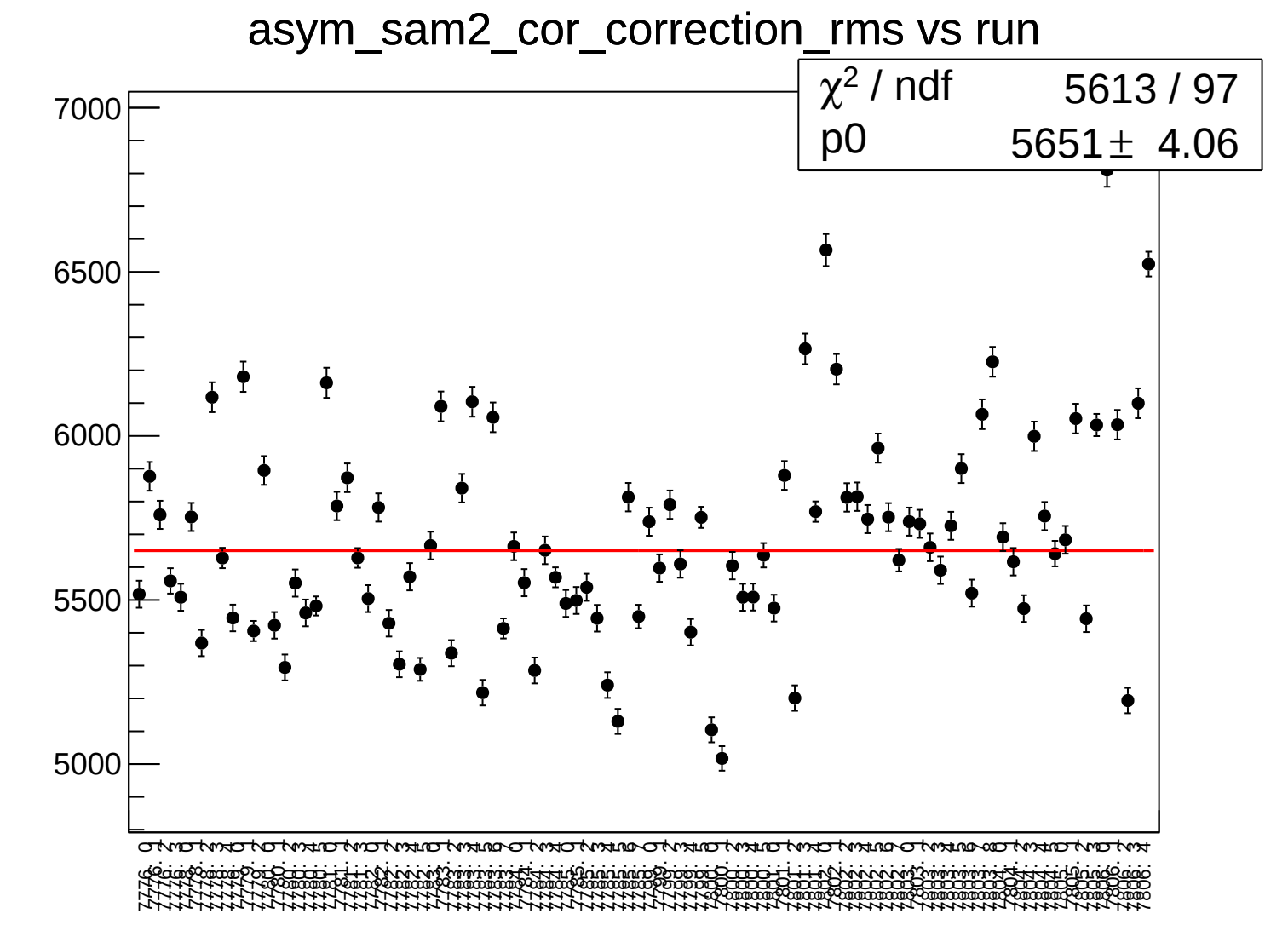

cor_asym_sam2_mean vs run
χ² / ndf 79.9 / 97
p0 −138.1± 332.7
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 1434
Std Dev 0
2
1
0
−1
−2

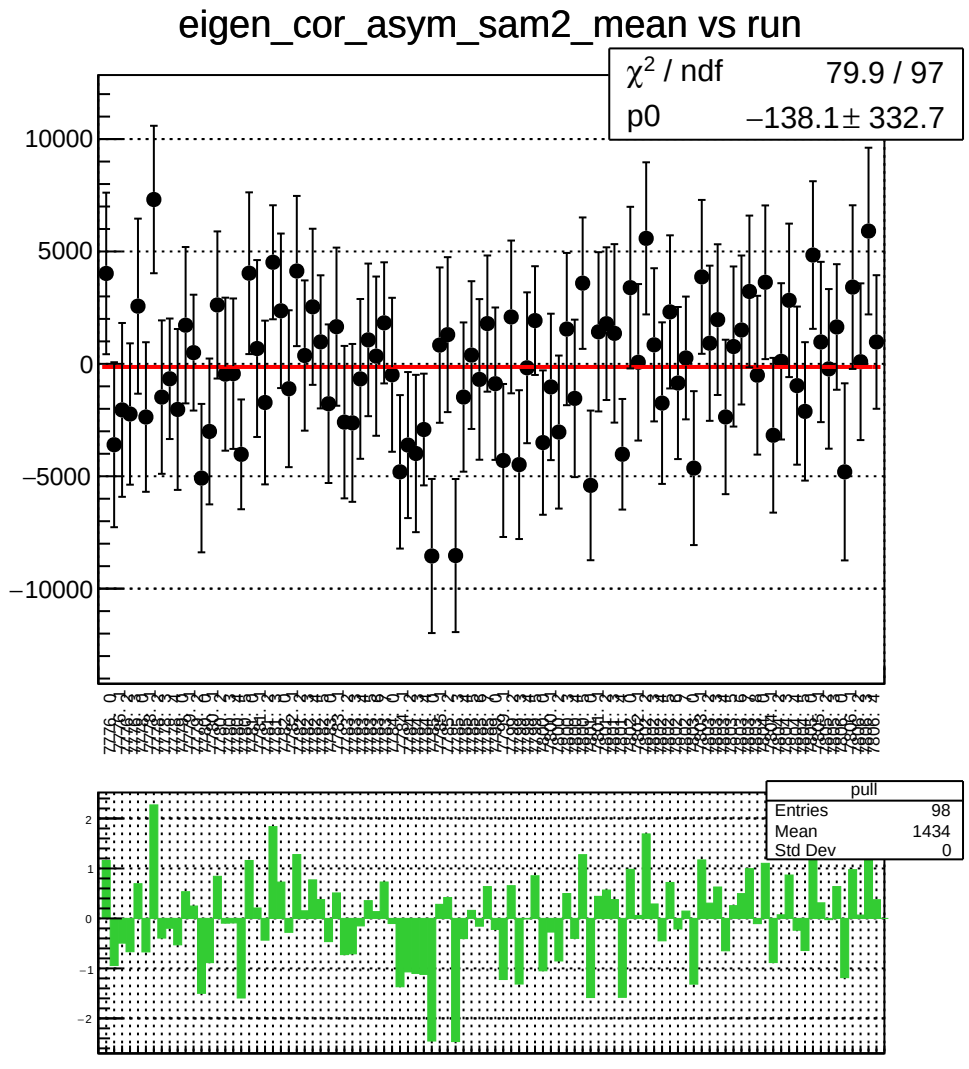

pull1D
Entries 98
Mean 0.002182
Std Dev 0.9029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

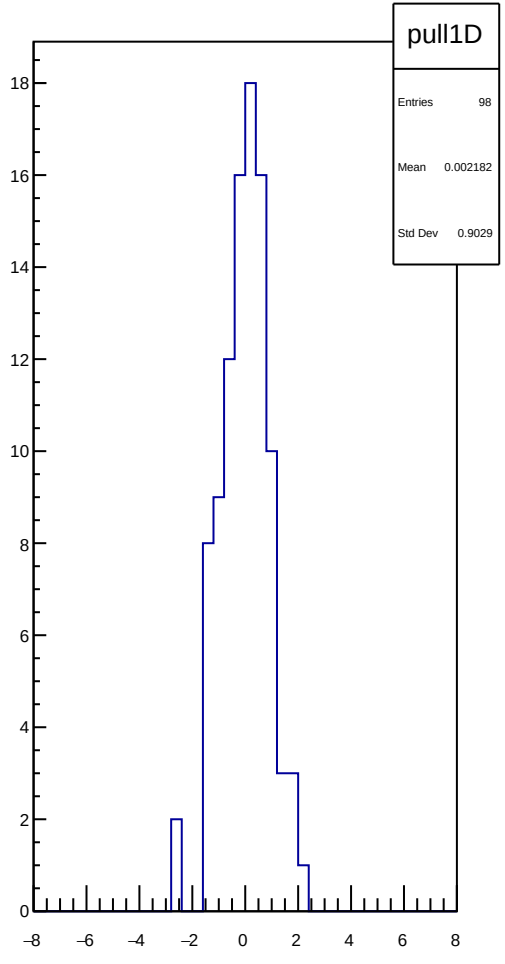

cor_asym_sam2_rms vs run
χ² / ndf 3626 / 97
p0 327.6 ± 0.2353
380
370
360
350
340
330
320
310
300

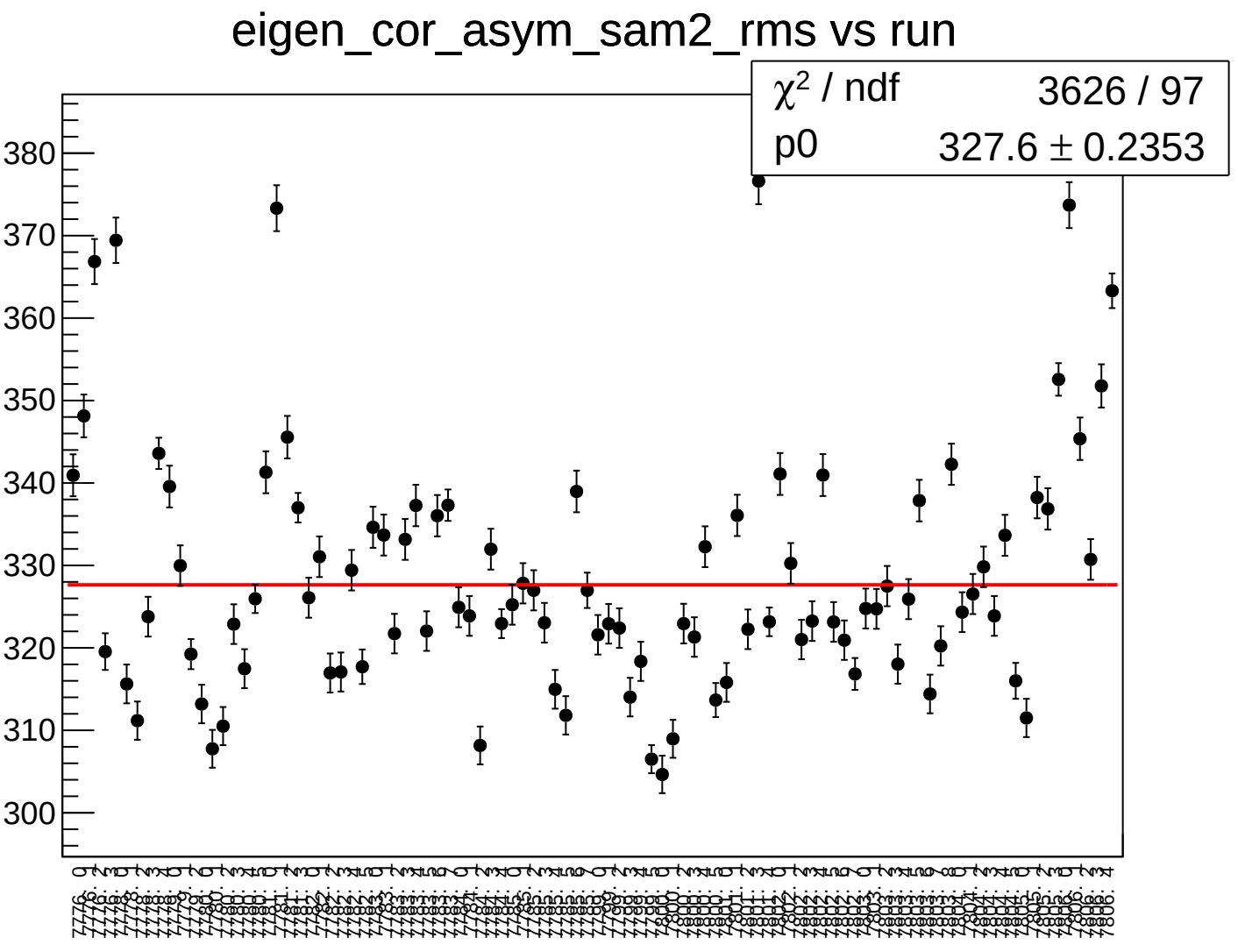

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 73.54 / 97
p0 −1930 ± 5742
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 856.9
Std Dev 0
3
2
1
0
−1
−2

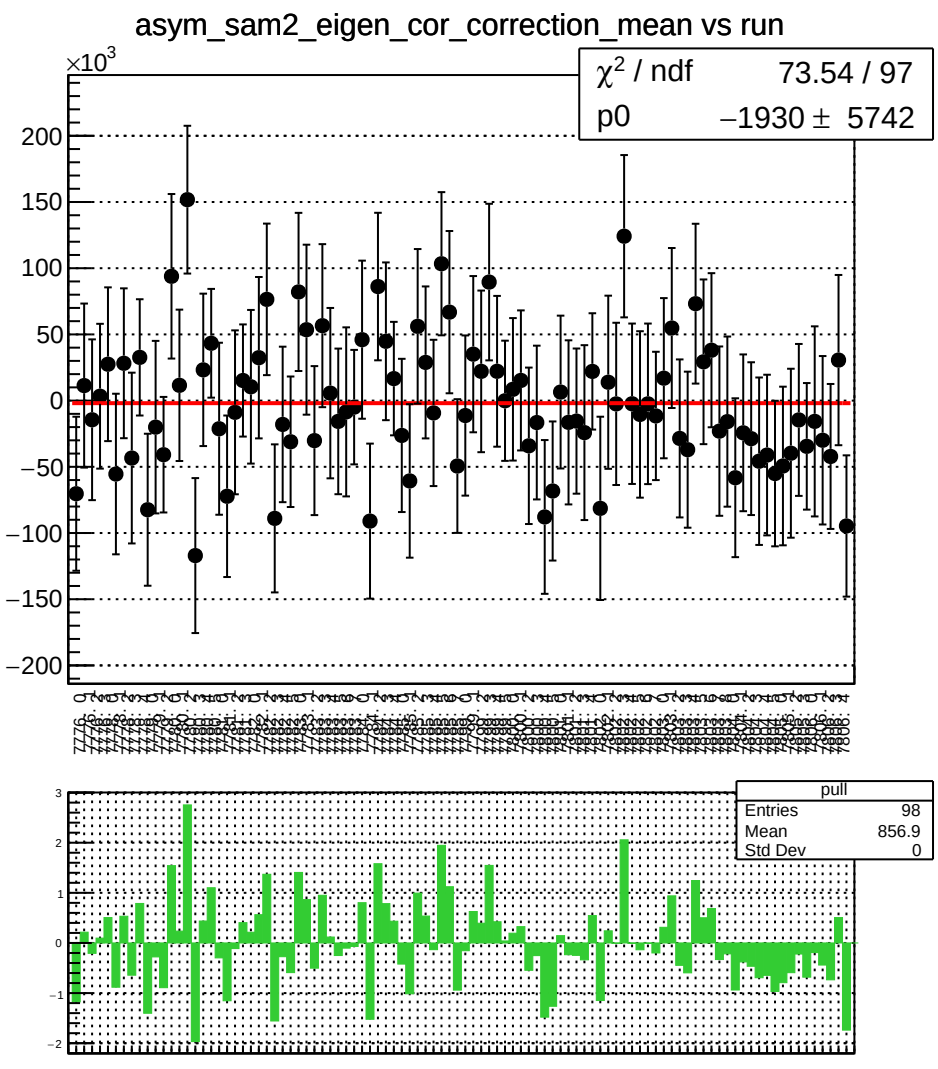

pull1D
Entries 98
Mean −0.00451
Std Dev 0.8663
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

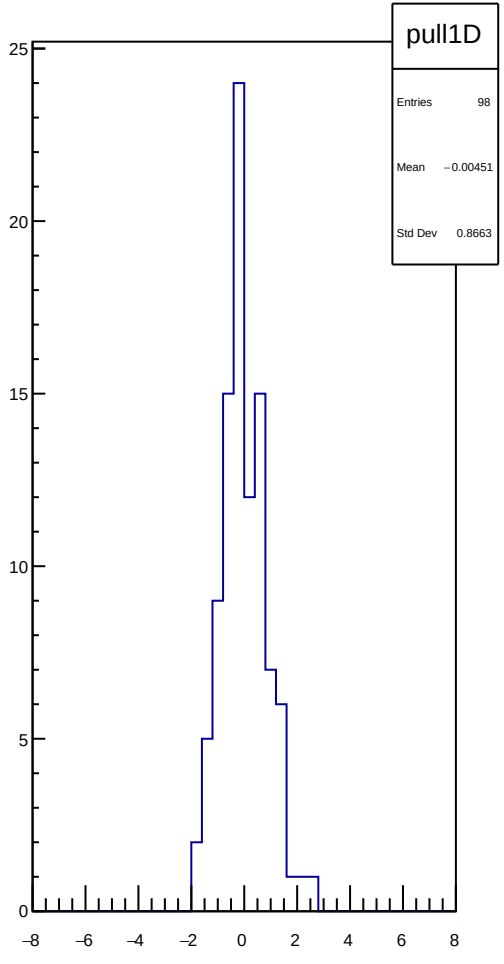

asym_sam2_cor_correction_rms vs run
χ^2 / ndf 5613 / 97
p0 5651 ± 4.06
7000
6500
6000
5500
5000

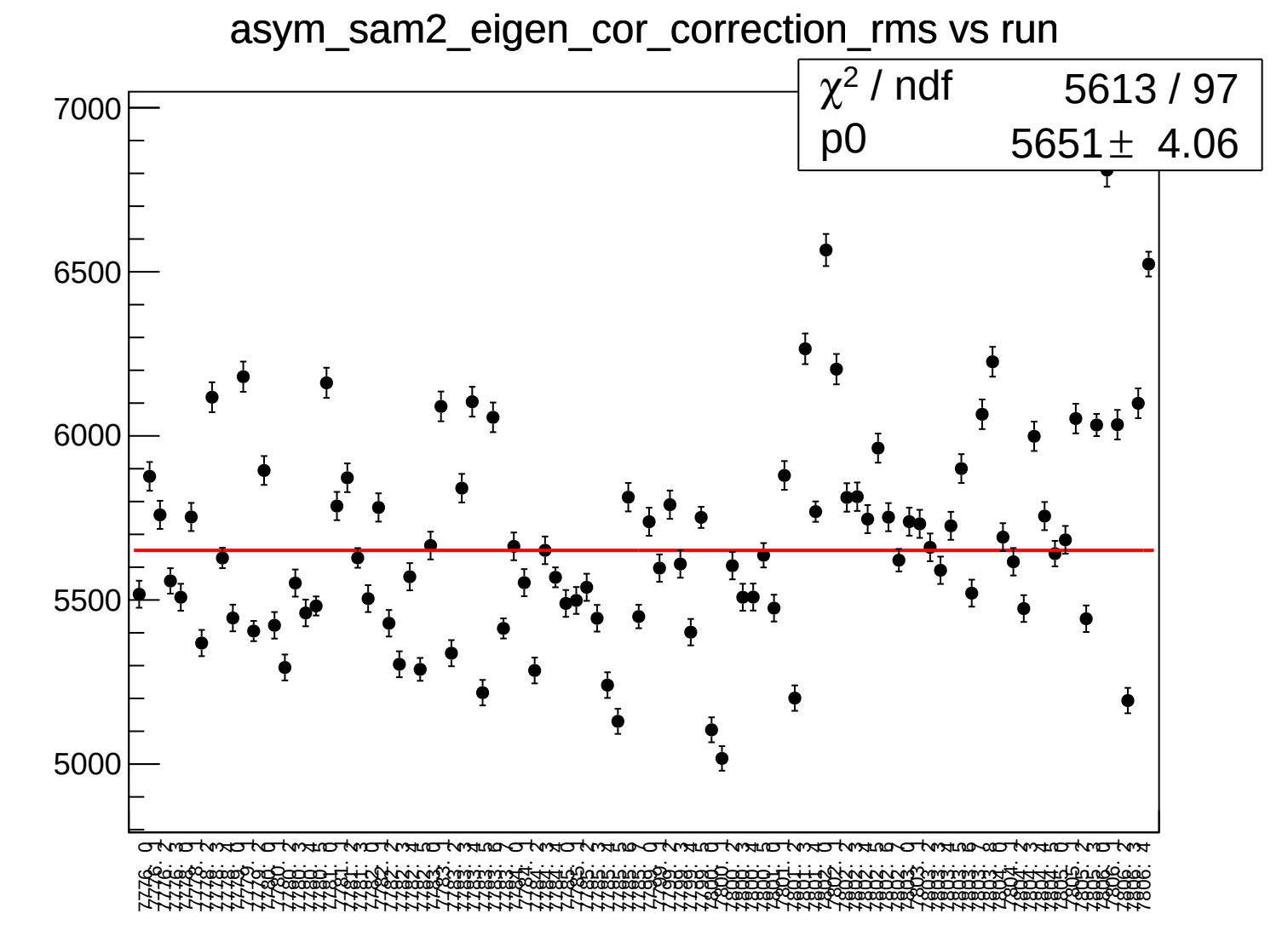

eigen_cor_asym_sam2_mean vs run
χ² / ndf 79.9 / 97
p0 −138.1± 332.7
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 1434
Std Dev 0
2
1
0
−1
−2

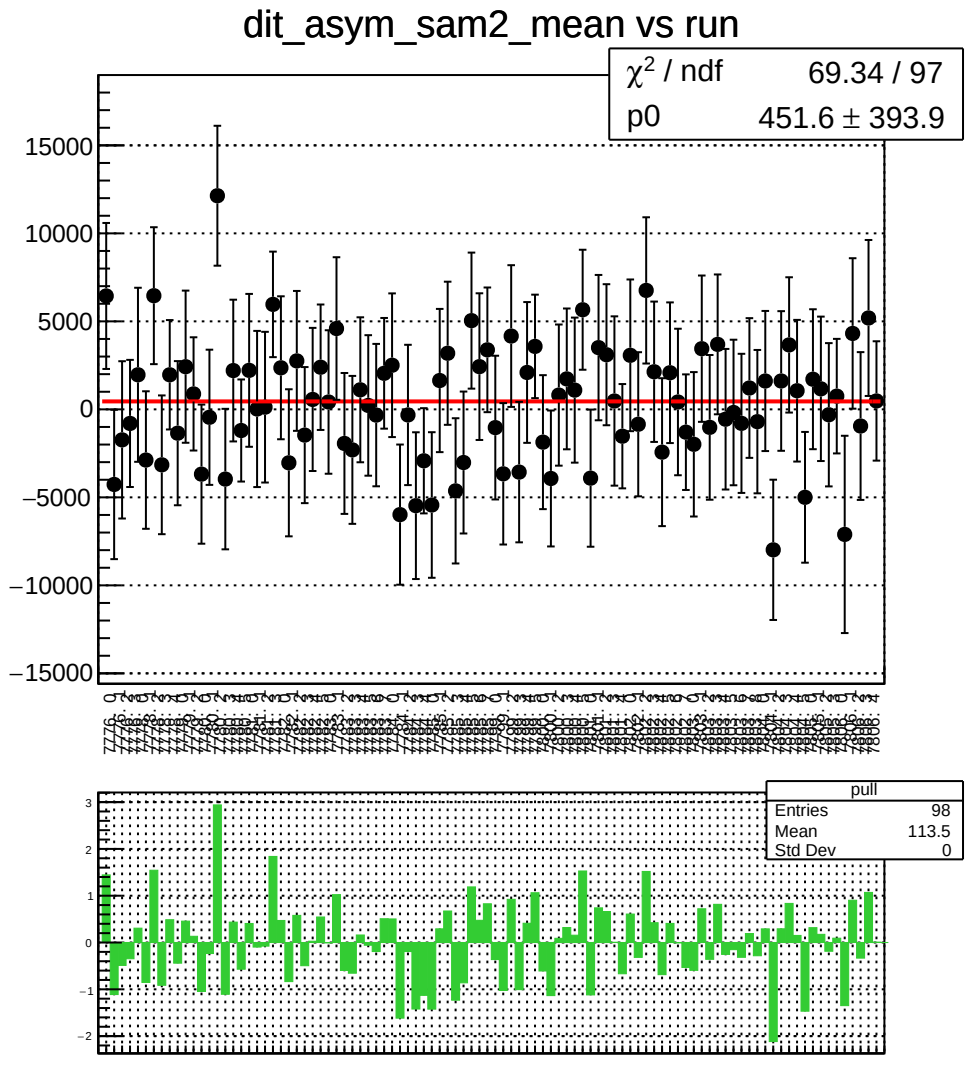

pull1D
Entries 98
Mean 0.002182
Std Dev 0.9029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

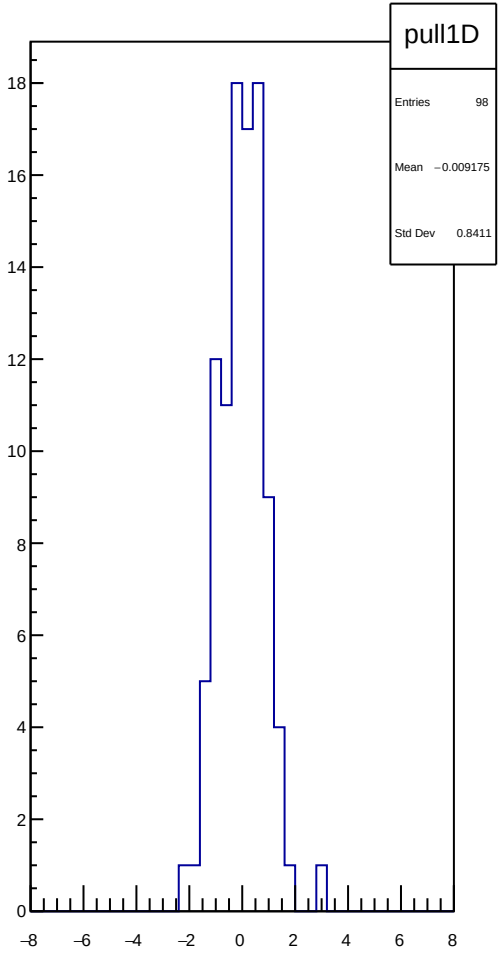

eigen_cor_asym_sam2_rms vs run
χ² / ndf 3626 / 97
p0 327.6 ± 0.2353
380
370
360
350
340
330
320
310
300

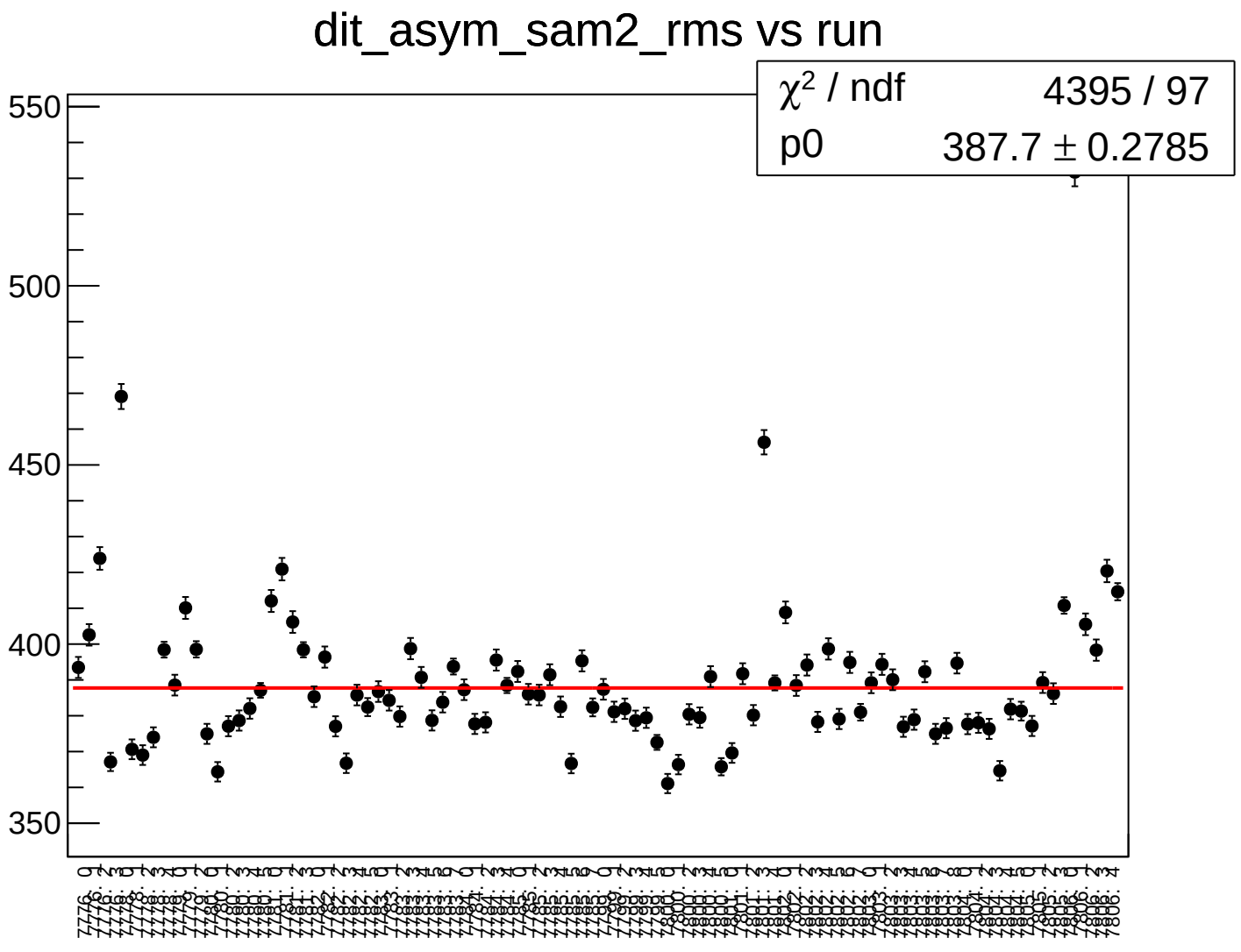

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 73.54 / 97
p0 −1930 ± 5742
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 856.9
Std Dev 0
3
2
1
0
−1
−2

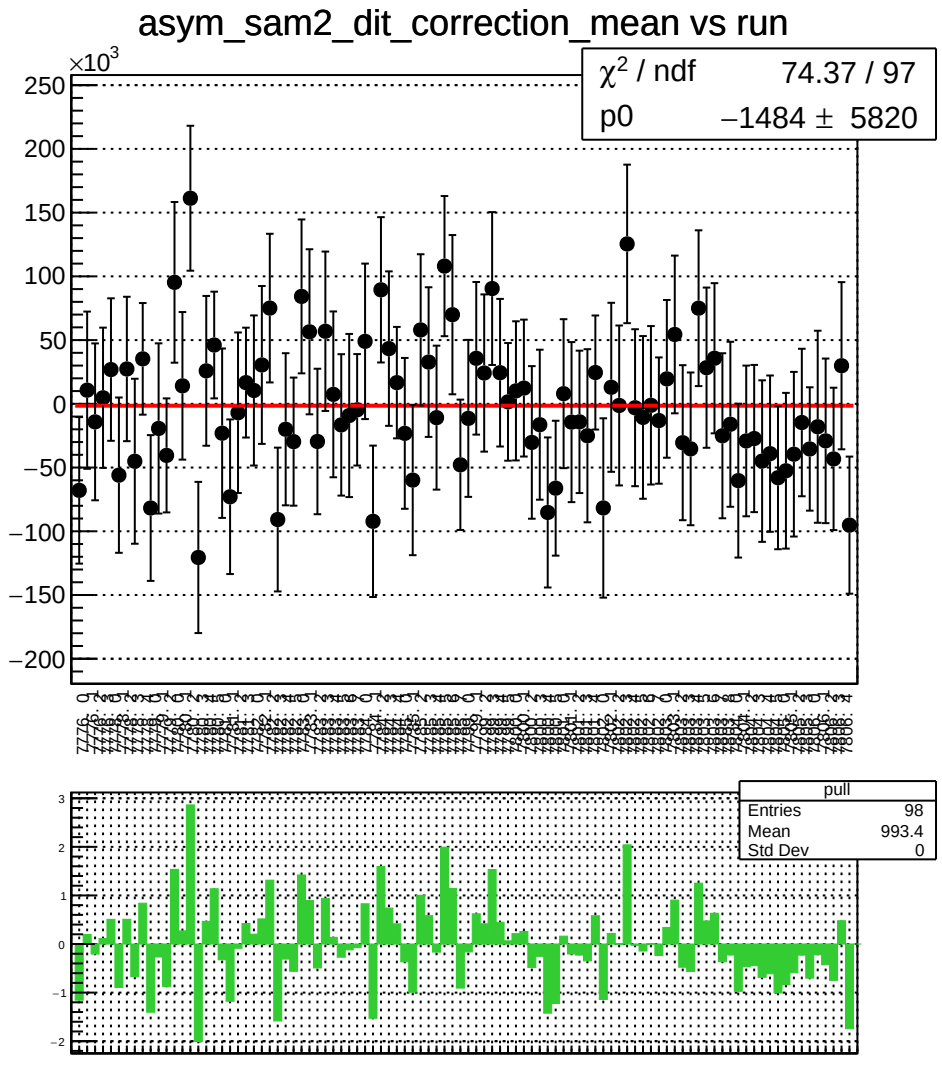

pull1D
Entries 98
Mean −0.00451
Std Dev 0.8663
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

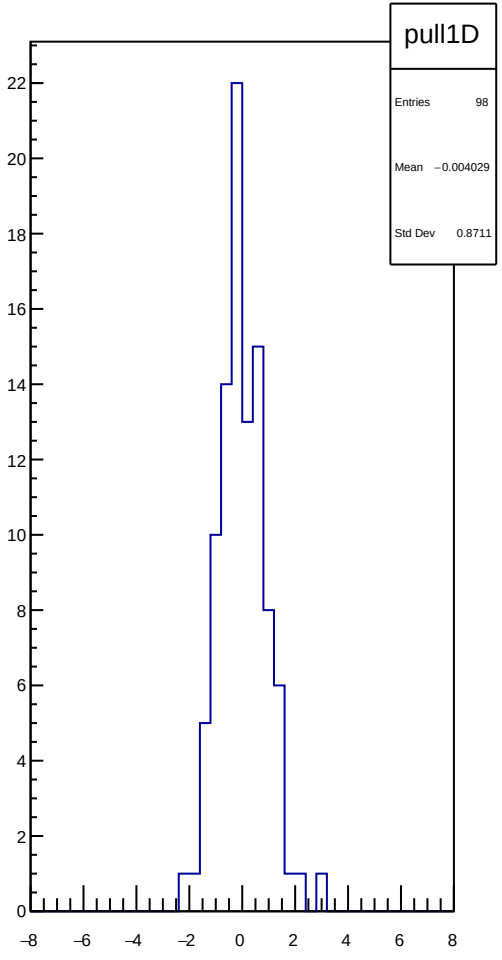

asym_sam2_eigen_cor_correction_rms vs run
χ^2 / ndf 5613 / 97
p0 5651 ± 4.06
7000
6500
6000
5500
5000

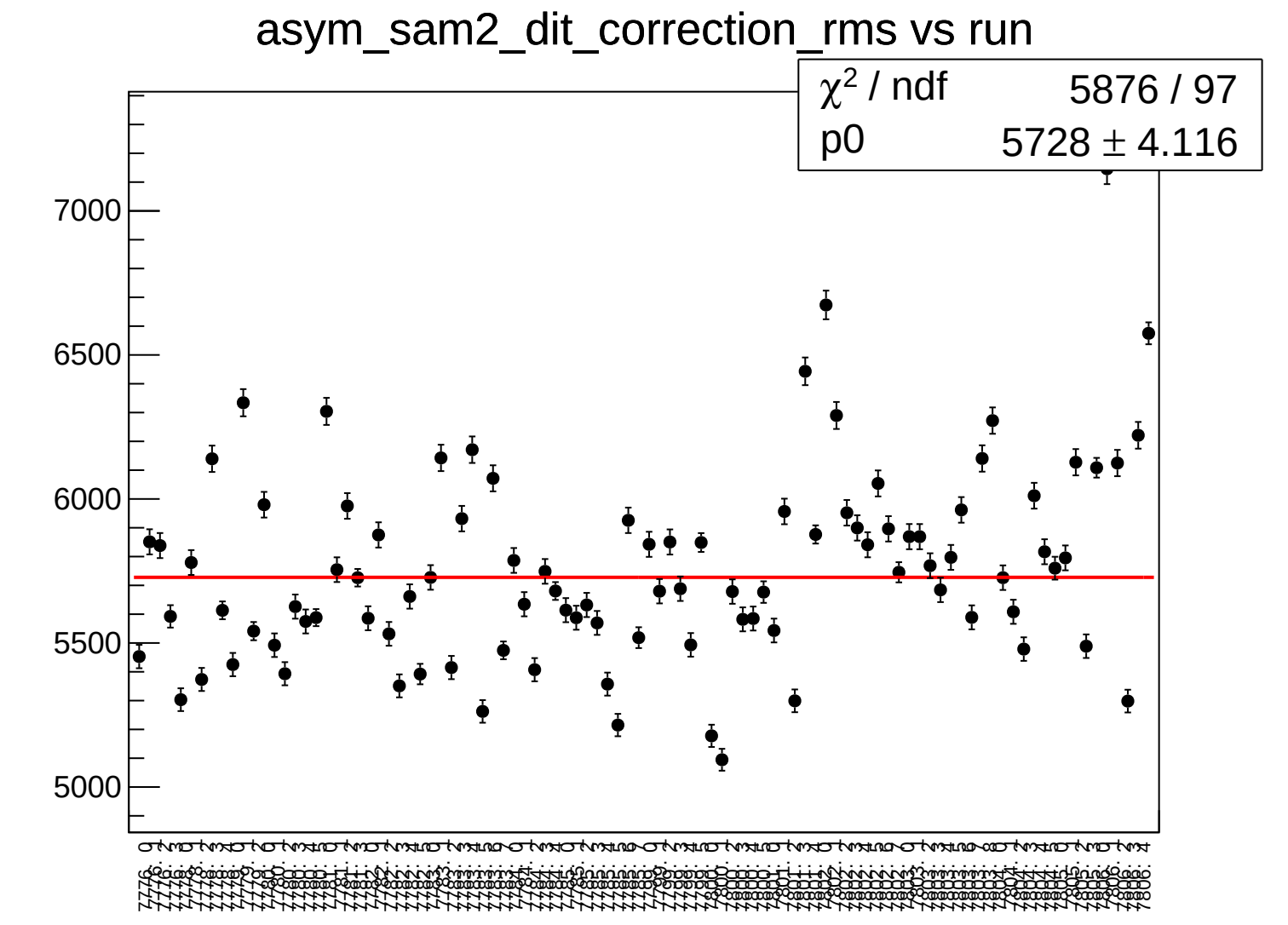

dit_asym_sam2_mean vs run
χ² / ndf 69.34 / 97
p0 451.6 ± 393.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 113.5
Std Dev 0
3
2
1
0
−1
−2

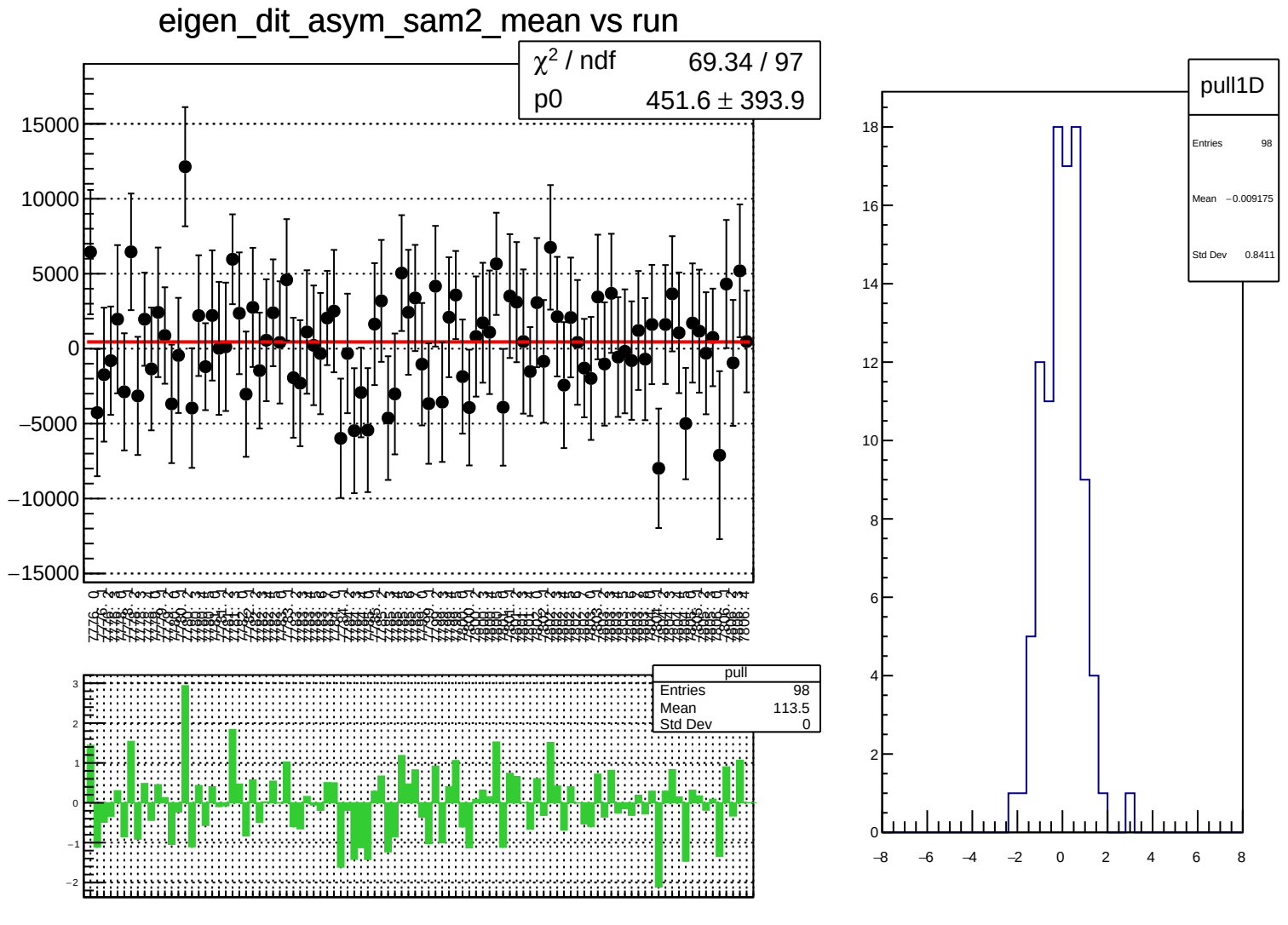

pull1D
Entries 98
Mean −0.009175
Std Dev 0.8411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

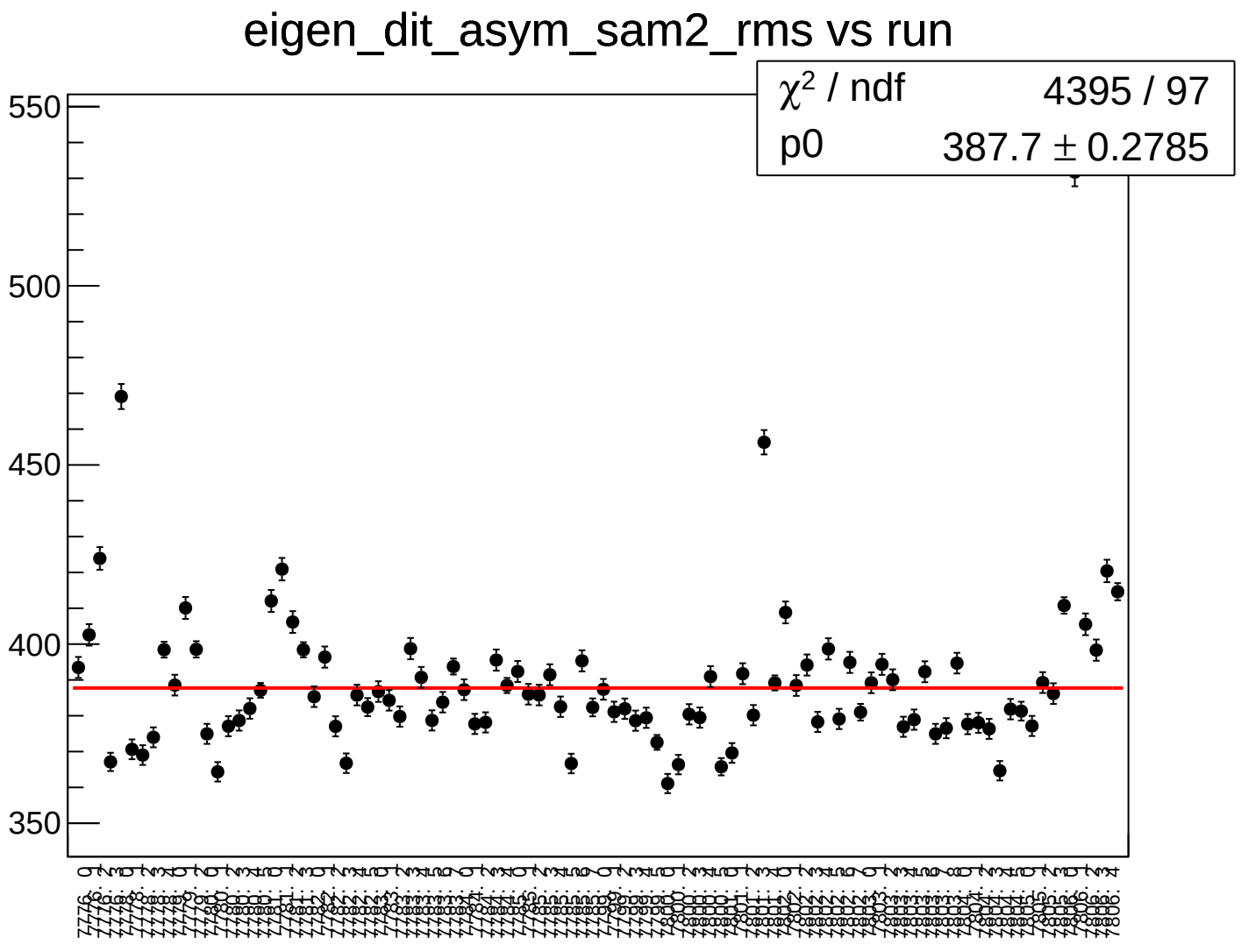

dit_asym_sam2_rms vs run
χ² / ndf 4395 / 97
p0 387.7 ± 0.2785
550
500
450
400
350

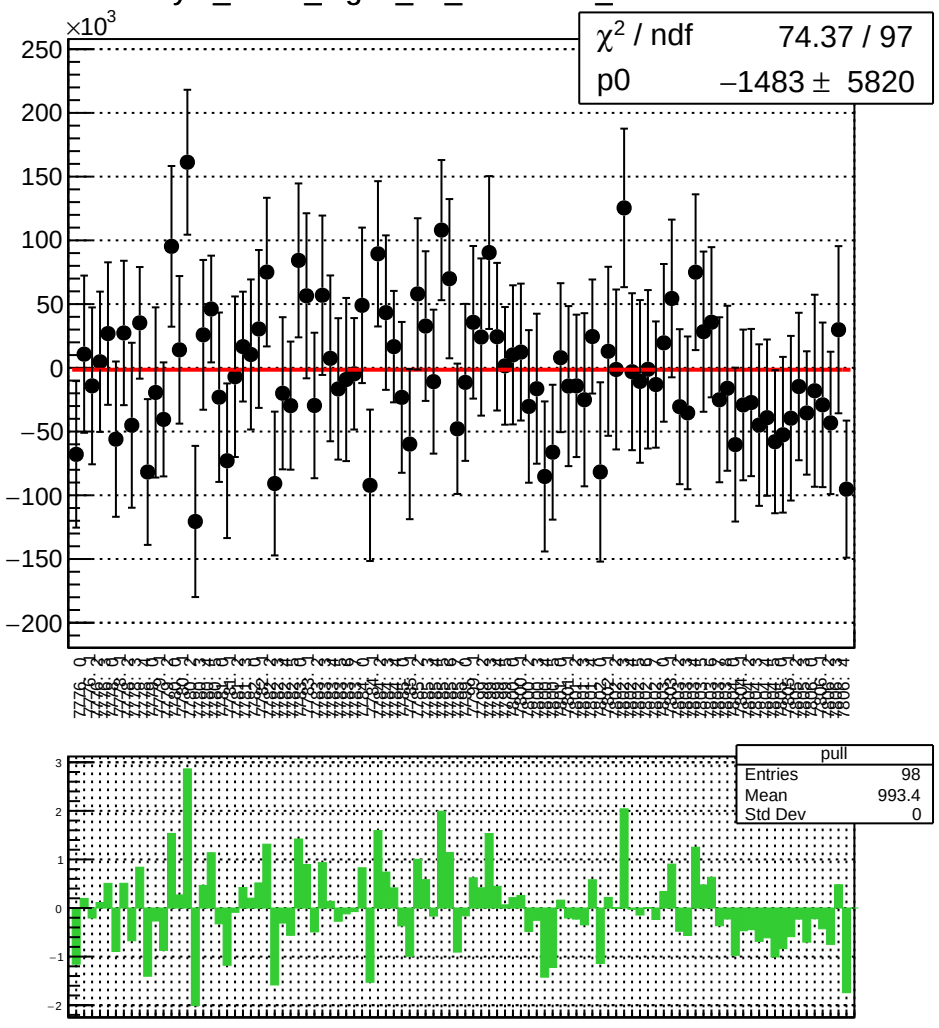

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 74.37 / 97
p0 −1484 ± 5820
pull
Entries 98
Mean 993.4
Std Dev 0

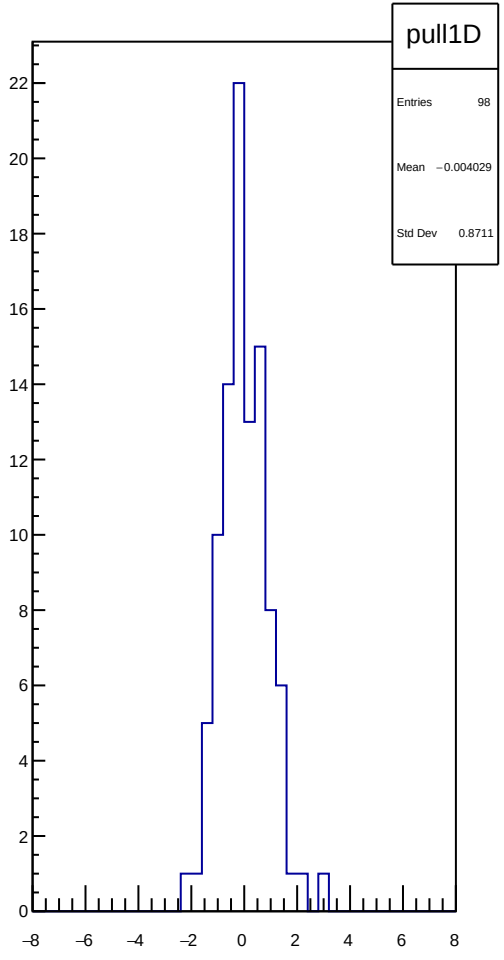

pull1D
Entries 98
Mean −0.004029
Std Dev 0.8711

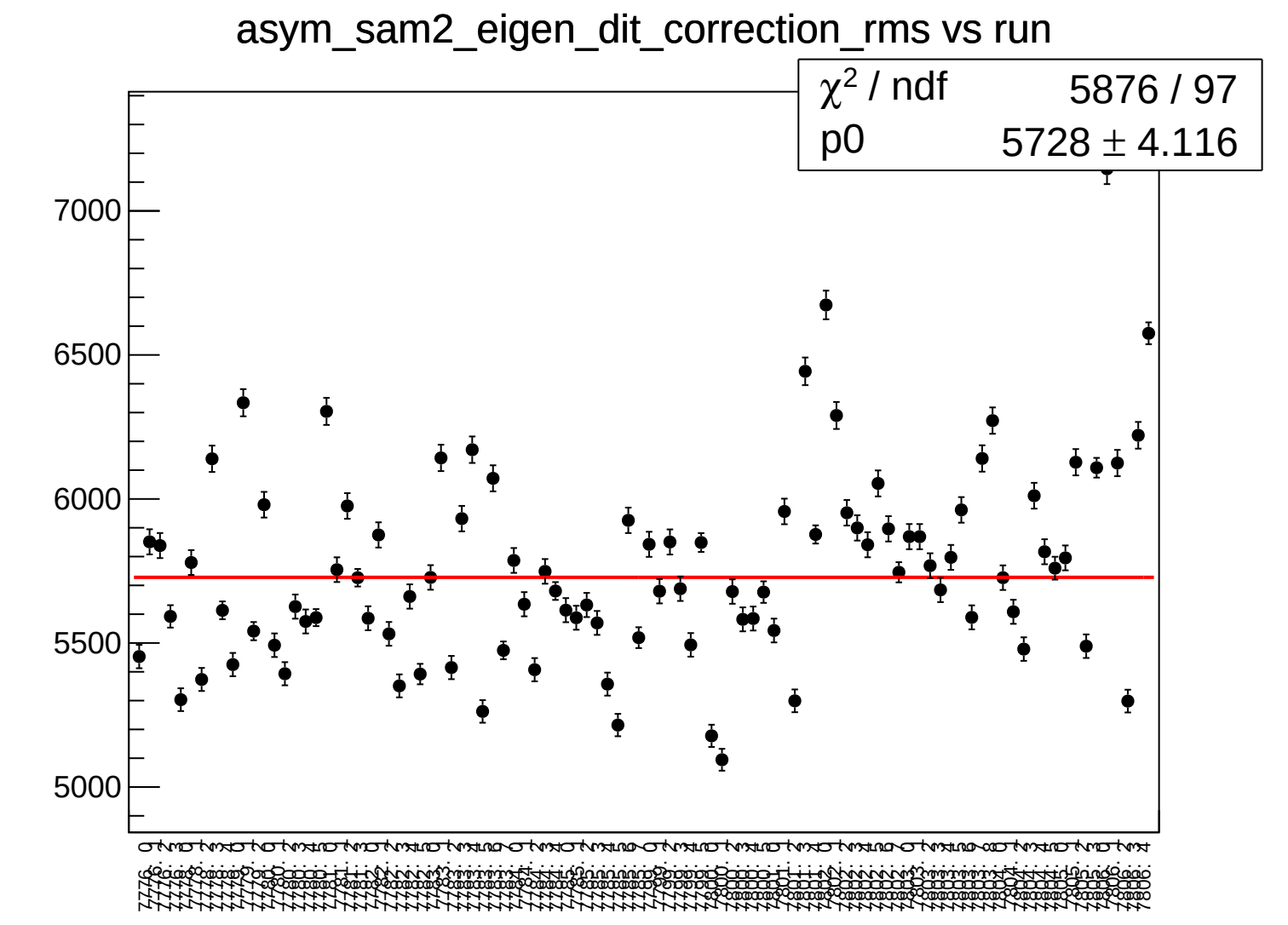

asym_sam2_dit_correction_rms vs run
χ^2 / ndf 5876 / 97
p0 5728 ± 4.116
7000
6500
6000
5500
5000

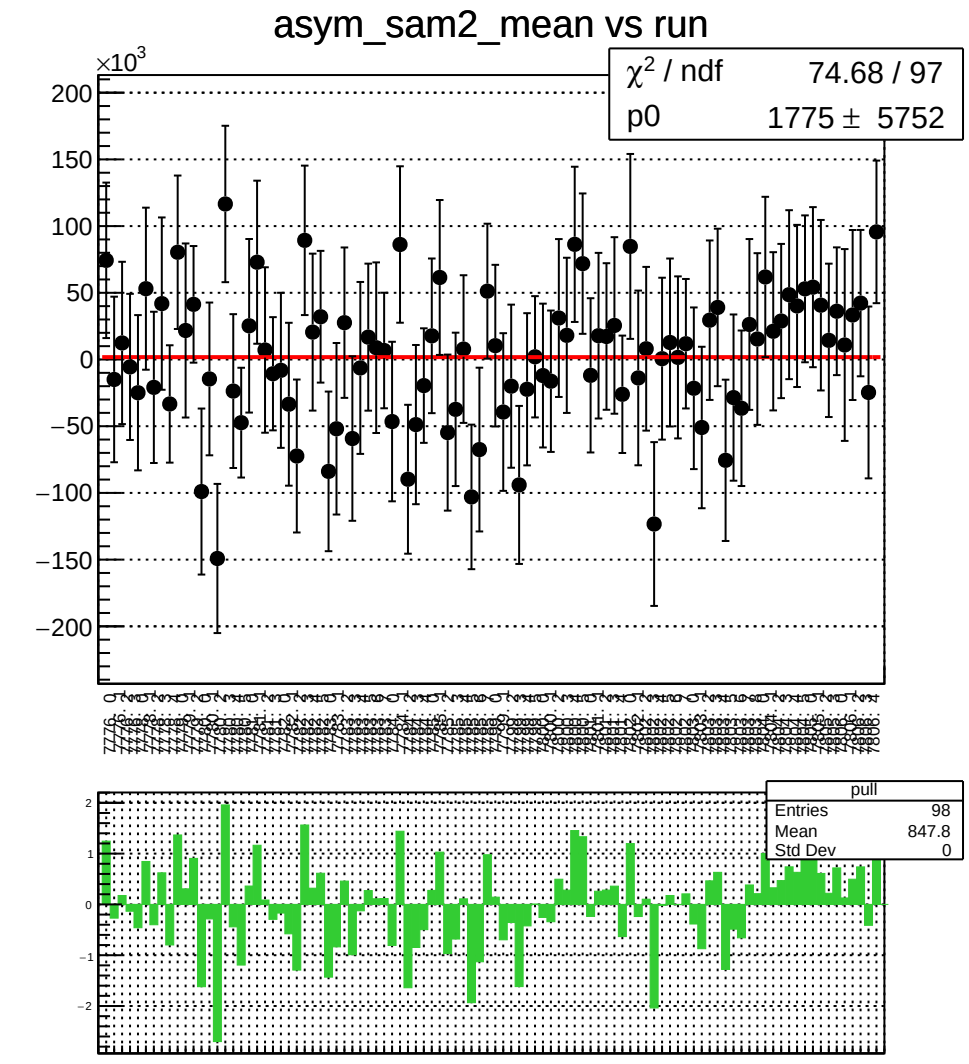

eigen_dit_asym_sam2_mean vs run
χ² / ndf 69.34 / 97
p0 451.6 ± 393.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 113.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.009175
Std Dev 0.8411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

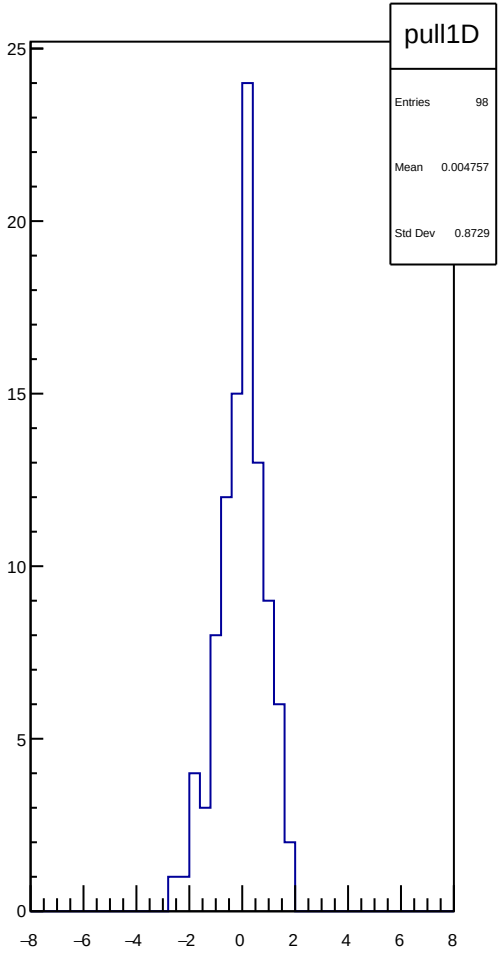

eigen_dit_asym_sam2_rms vs run
χ² / ndf 4395 / 97
p0 387.7 ± 0.2785
550
500
450
400
350

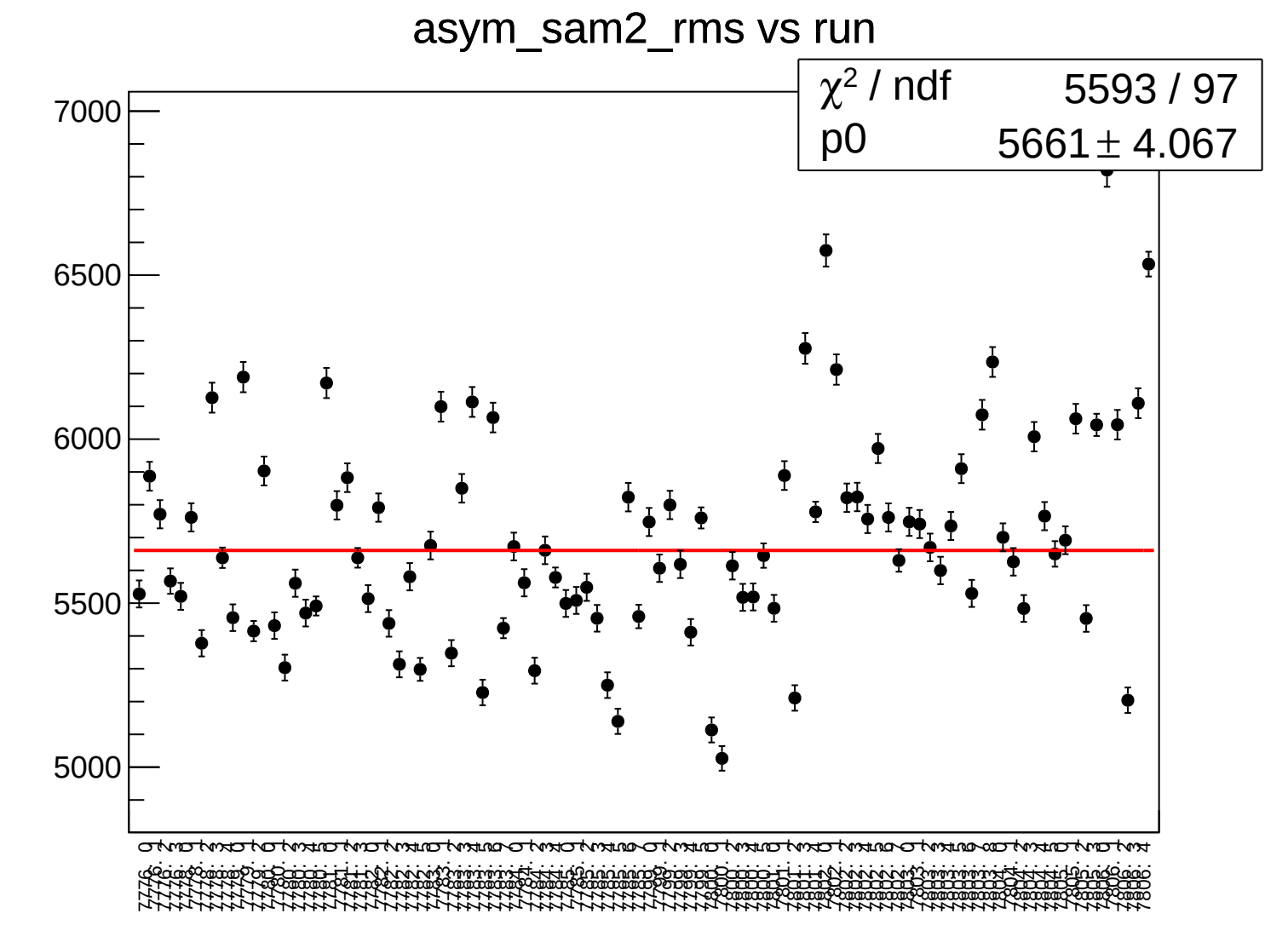

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.37 / 97
p0 −1483 ± 5820
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 993.4
Std Dev 0
3
2
1
0
−1
−2

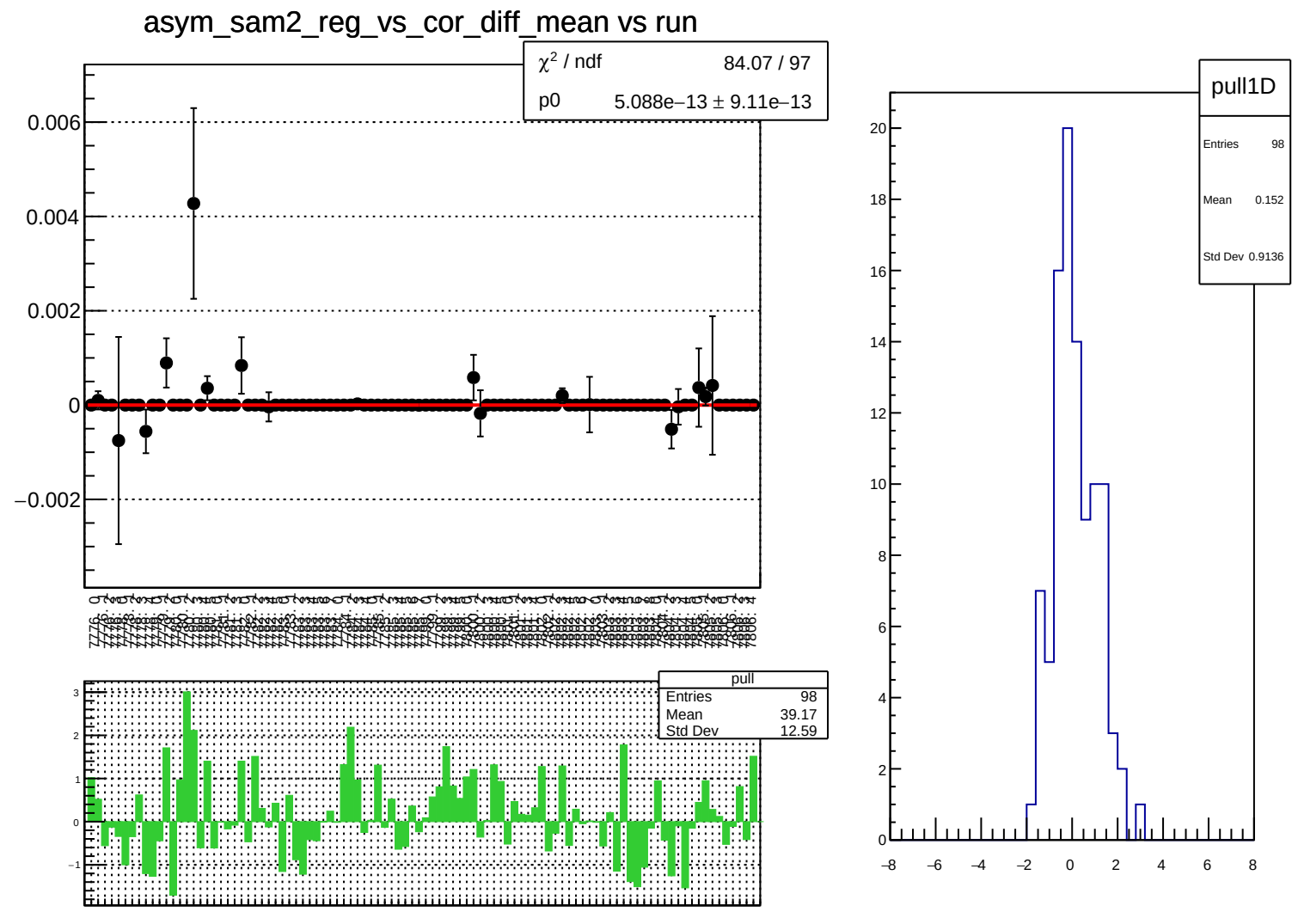

pull1D
Entries 98
Mean −0.004029
Std Dev 0.8711
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

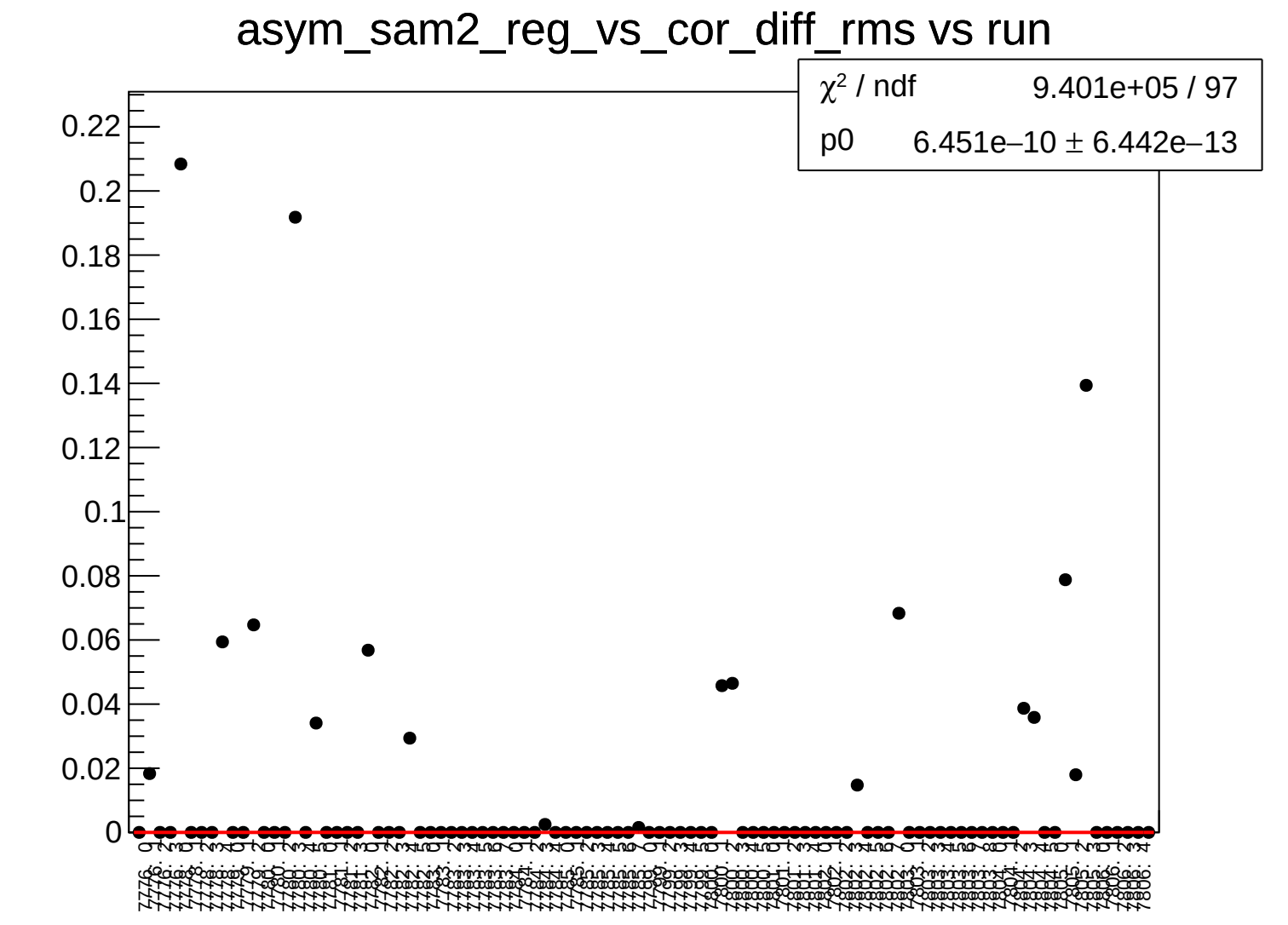

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 5876 / 97
p0 5728 ± 4.116
7000
6500
6000
5500
5000

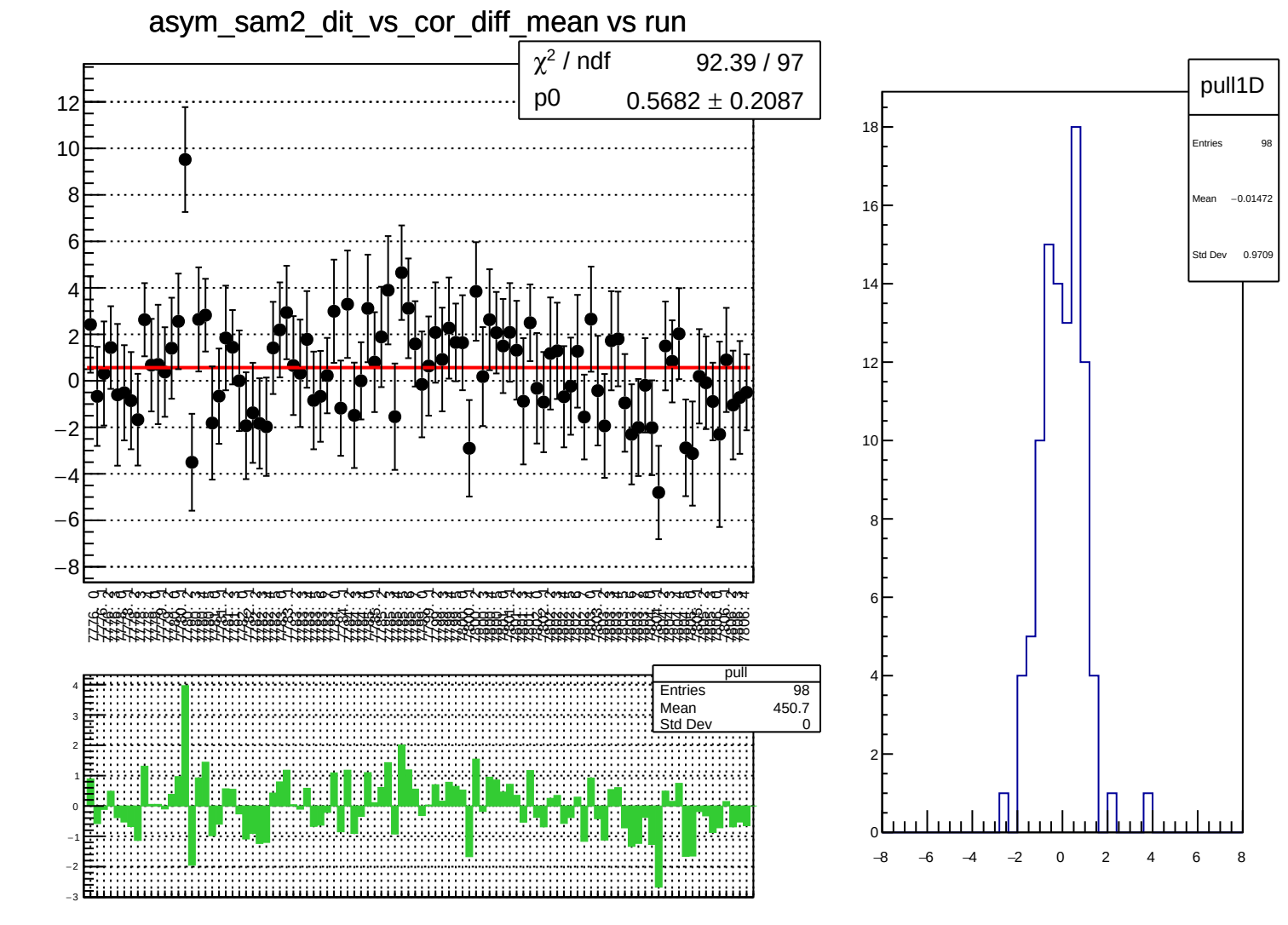

asym_sam2_mean vs run
×10^3
χ^2 / ndf 74.68 / 97
p0 1775 ± 5752
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 847.8
Std Dev 0
2
1
0
−1
−2

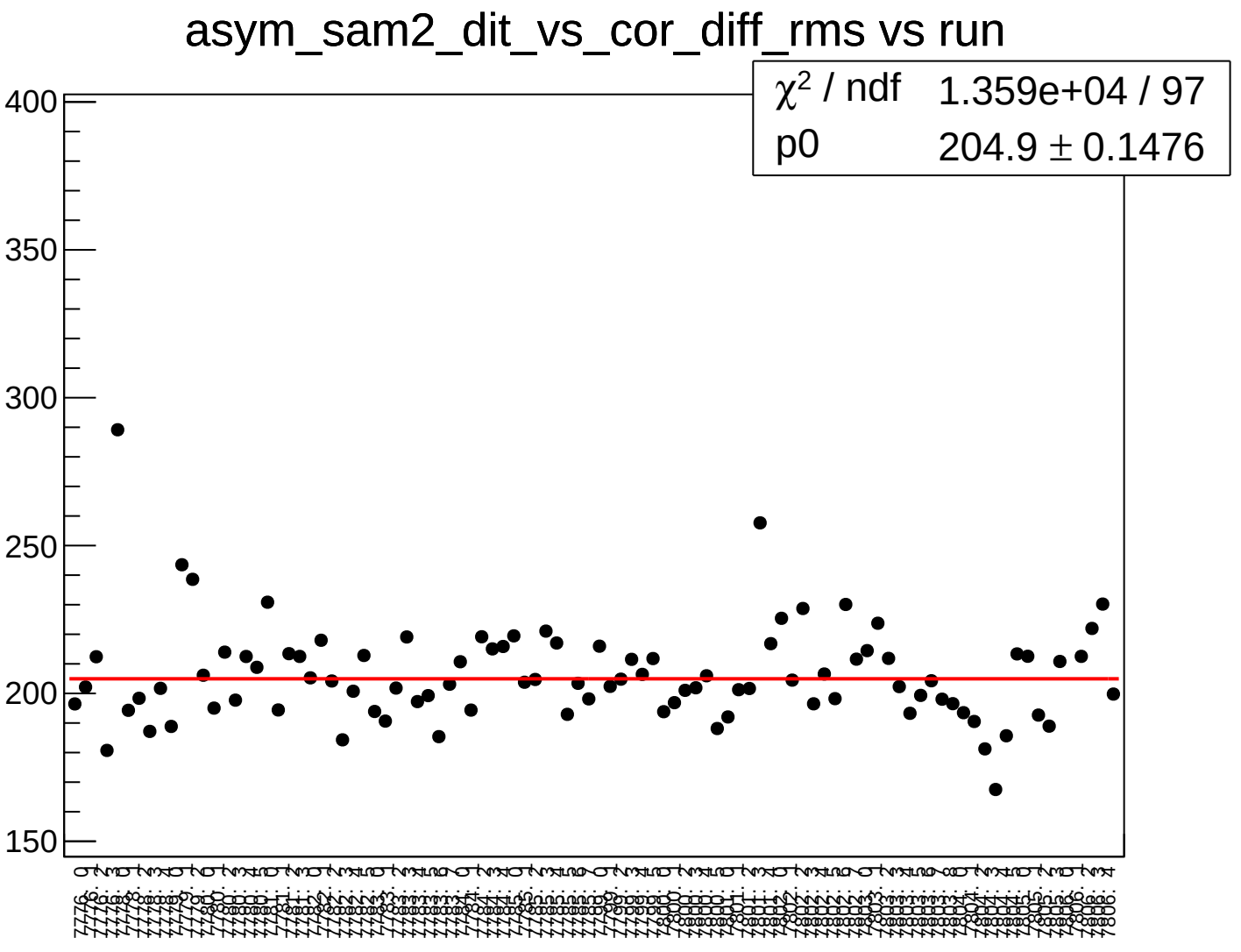

pull1D
Entries 98
Mean 0.004757
Std Dev 0.8729
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

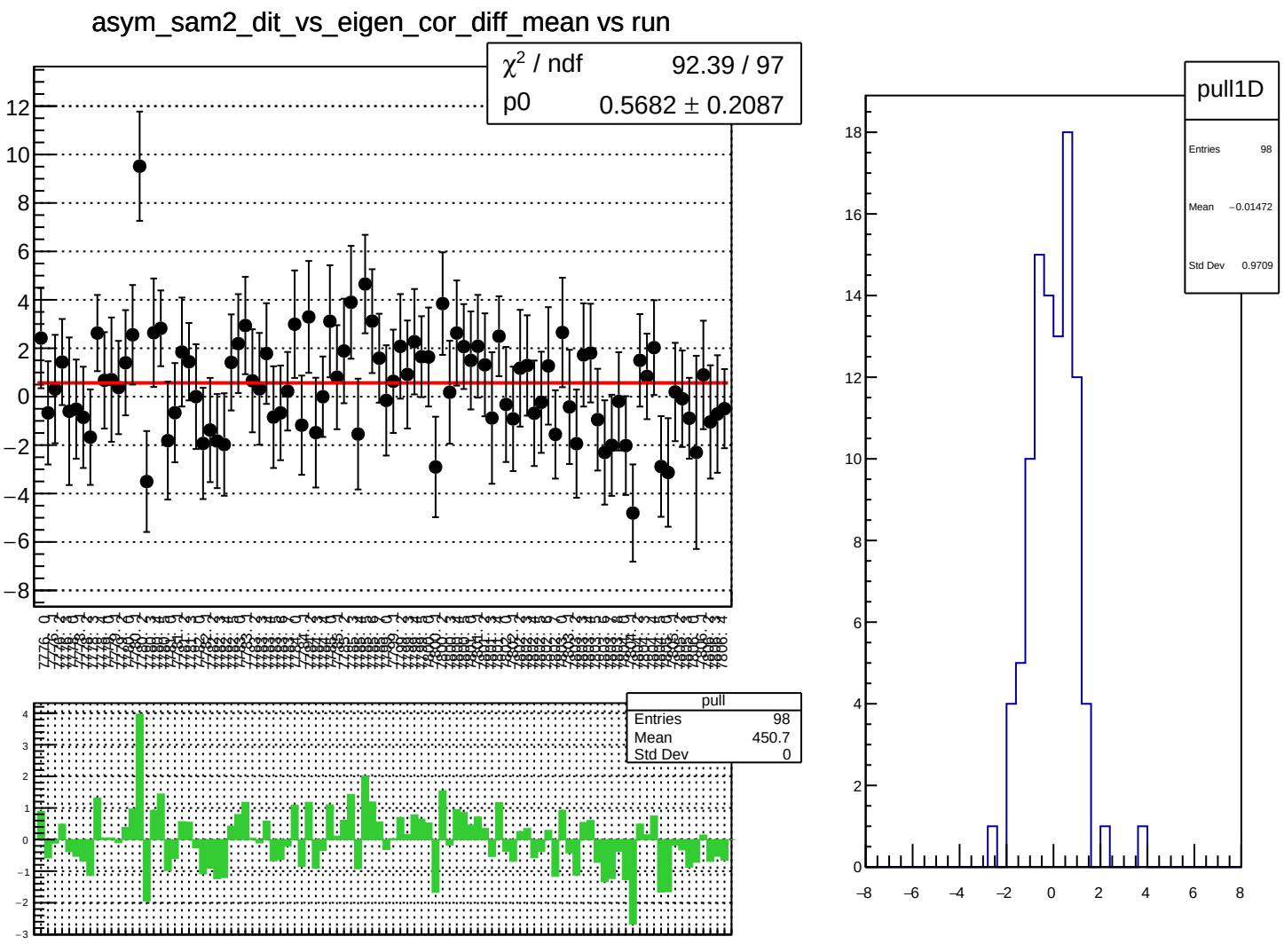

asym_sam2_rms vs run
χ^2 / ndf 5593 / 97
p0 5661 ± 4.067
7000
6500
6000
5500
5000

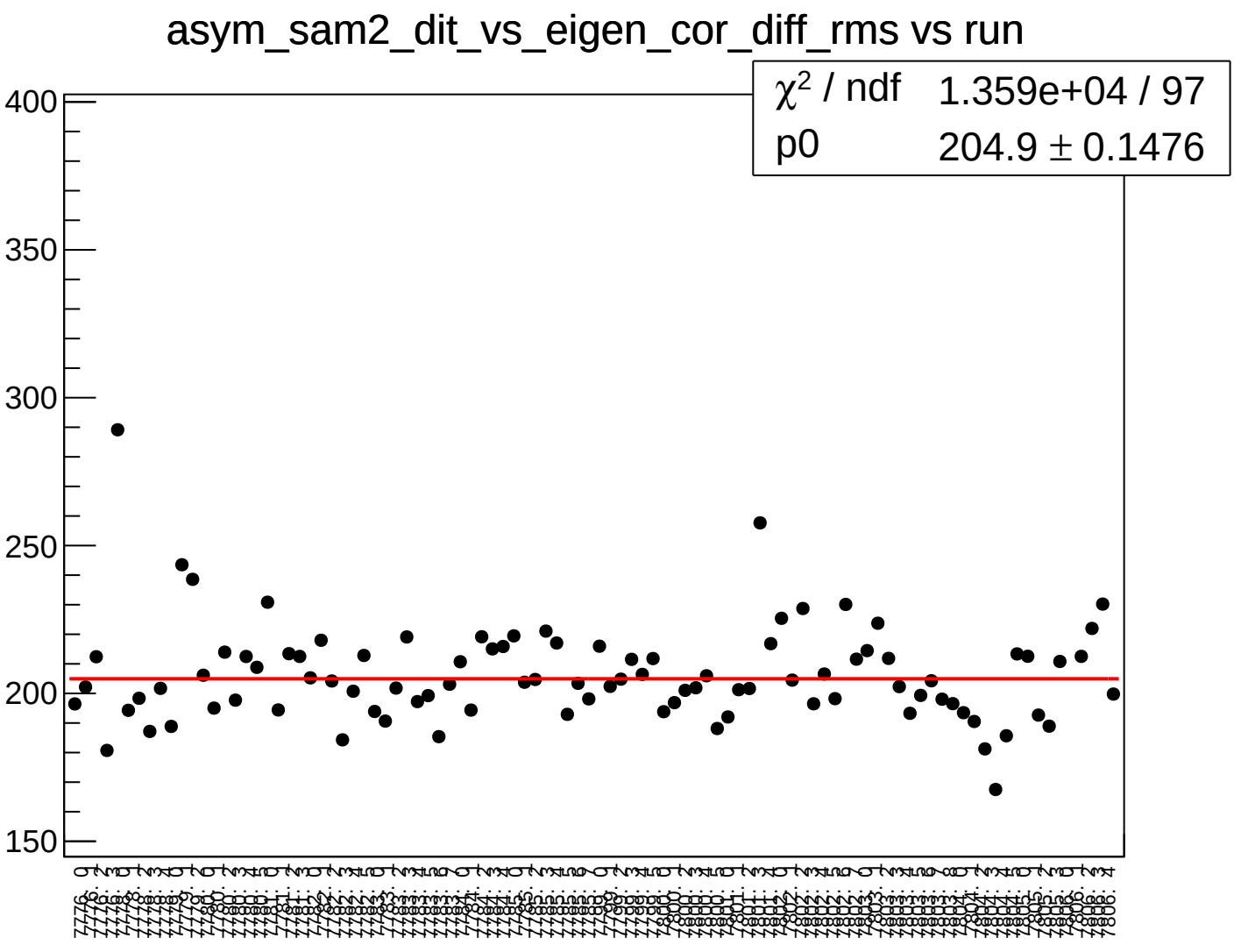

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 84.07 / 97
p0 5.088e−13 ± 9.11e−13
0.006
0.004
0.002
0
−0.002
pull
Entries 98
Mean 39.17
Std Dev 12.59
pull1D
Entries 98
Mean 0.152
Std Dev 0.9136

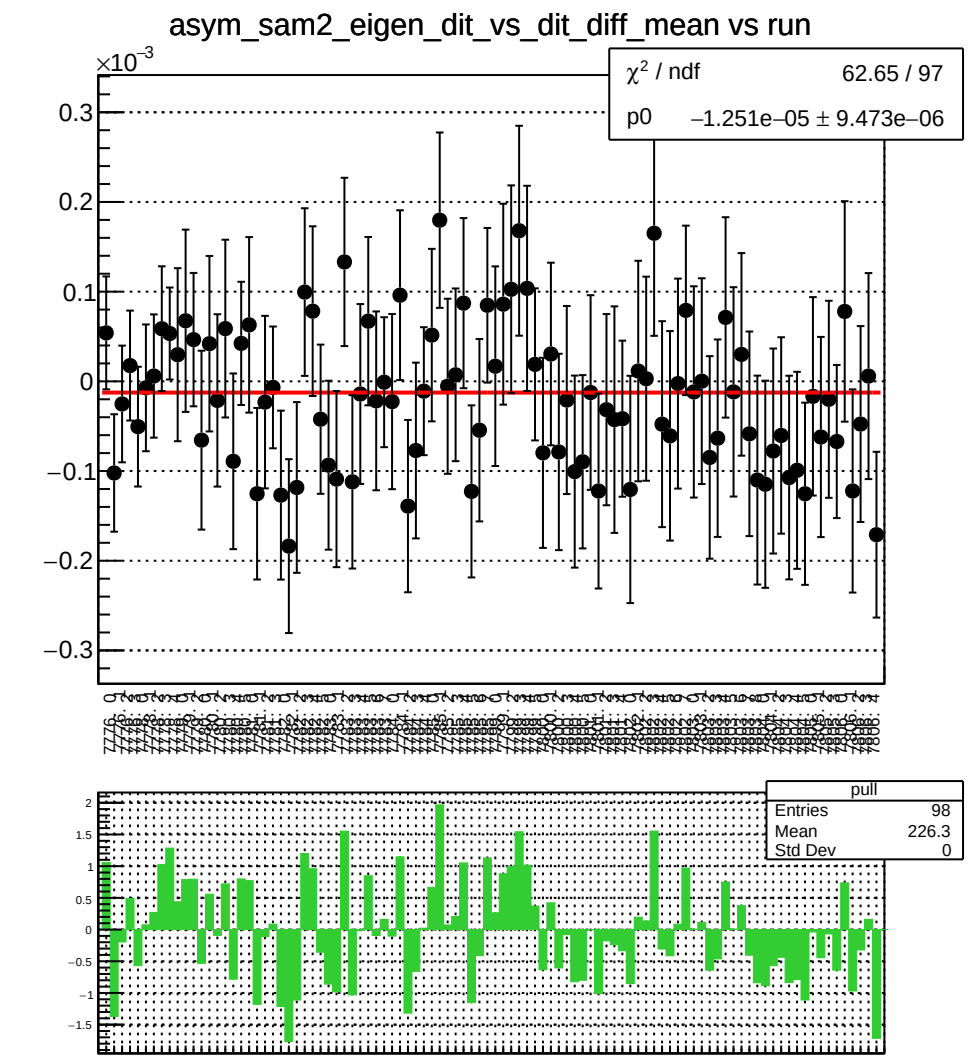

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.401e+05 / 97
p0 6.451e−10 ± 6.442e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

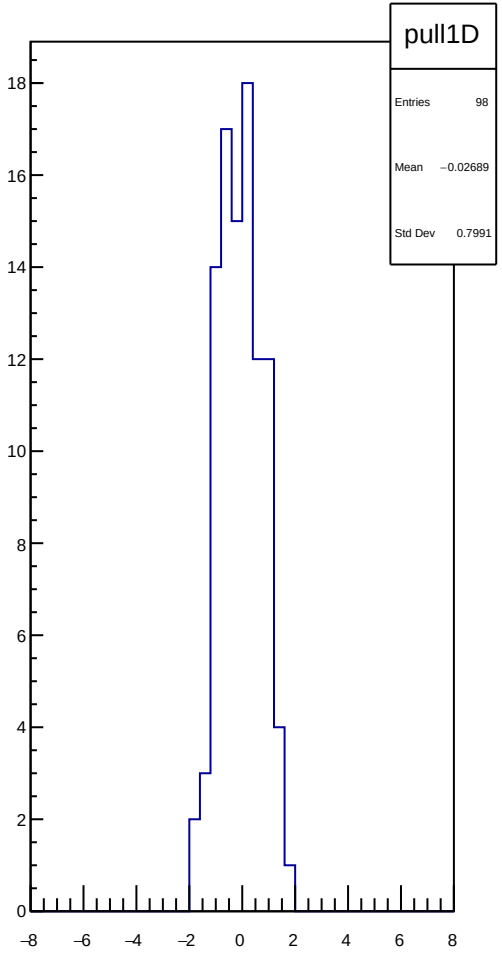

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 92.39 / 97
p0 0.5682 ± 0.2087
pull
Entries 98
Mean 450.7
Std Dev 0
pull1D
Entries 98
Mean −0.01472
Std Dev 0.9709

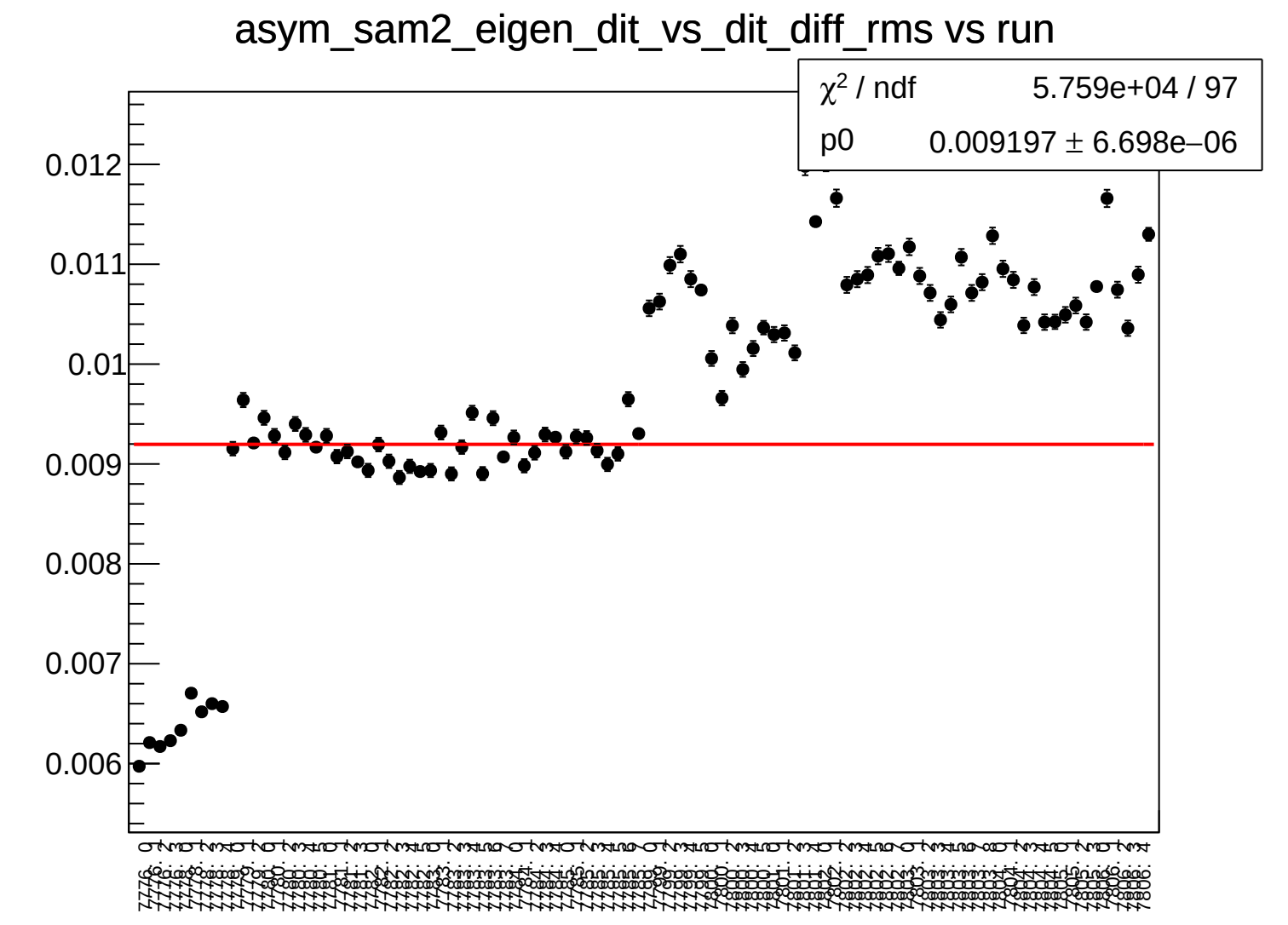

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.359e+04 / 97
p0 204.9 ± 0.1476
400
350
300
250
200
150

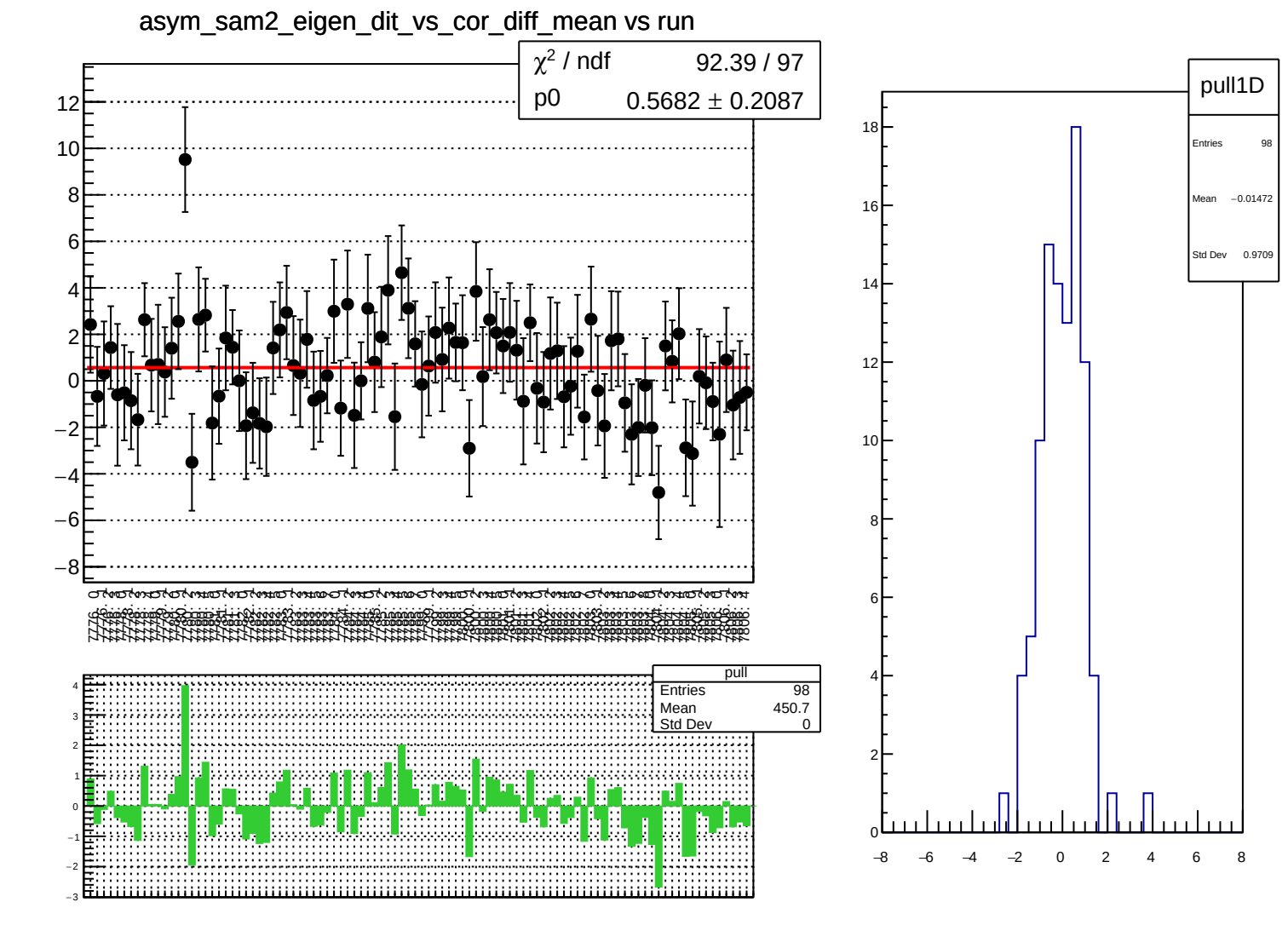

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.39 / 97
p0 0.5682 ± 0.2087
pull
Entries 98
Mean 450.7
Std Dev 0
pull1D
Entries 98
Mean −0.01472
Std Dev 0.9709

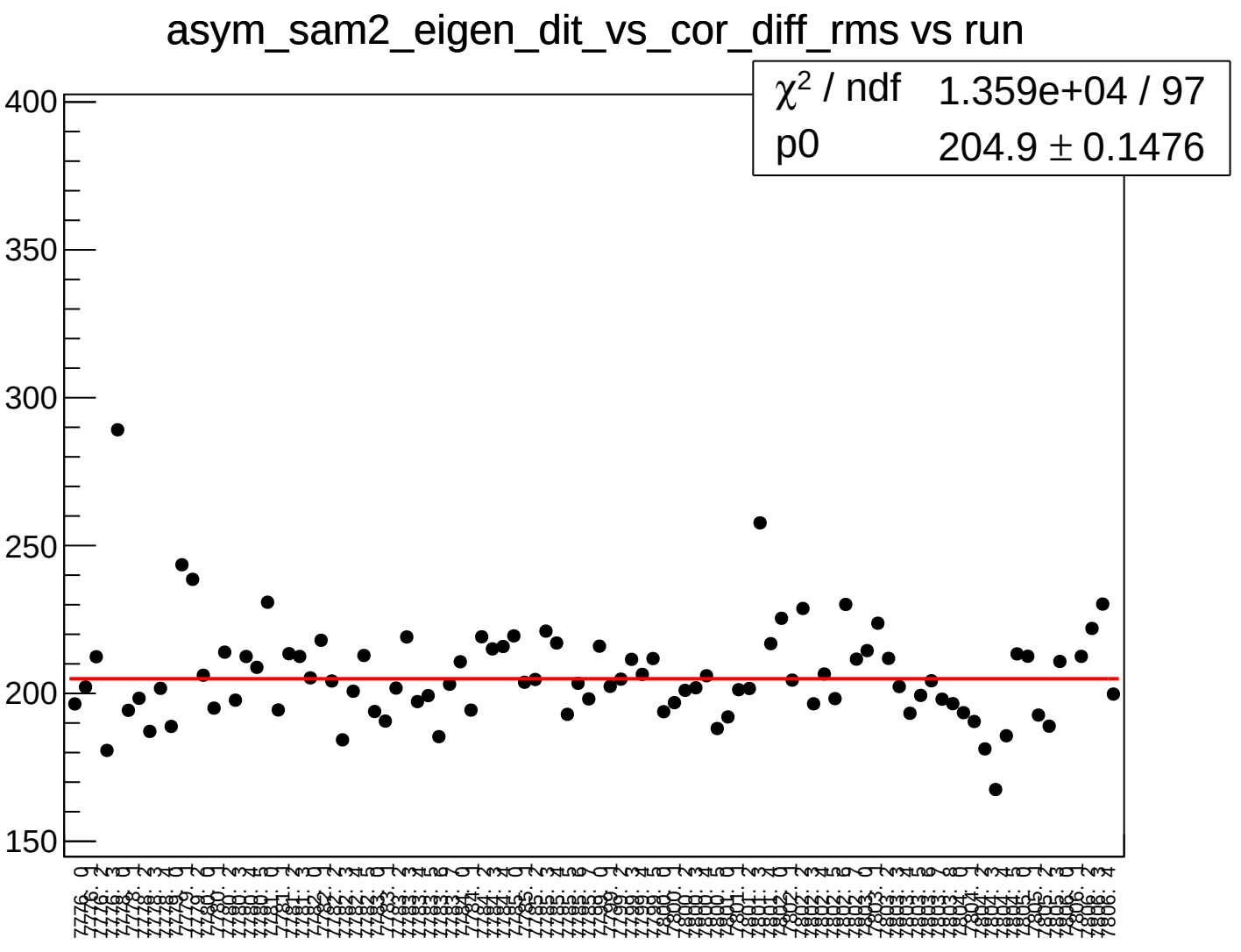

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.359e+04 / 97
p0 204.9 ± 0.1476
400
350
300
250
200
150

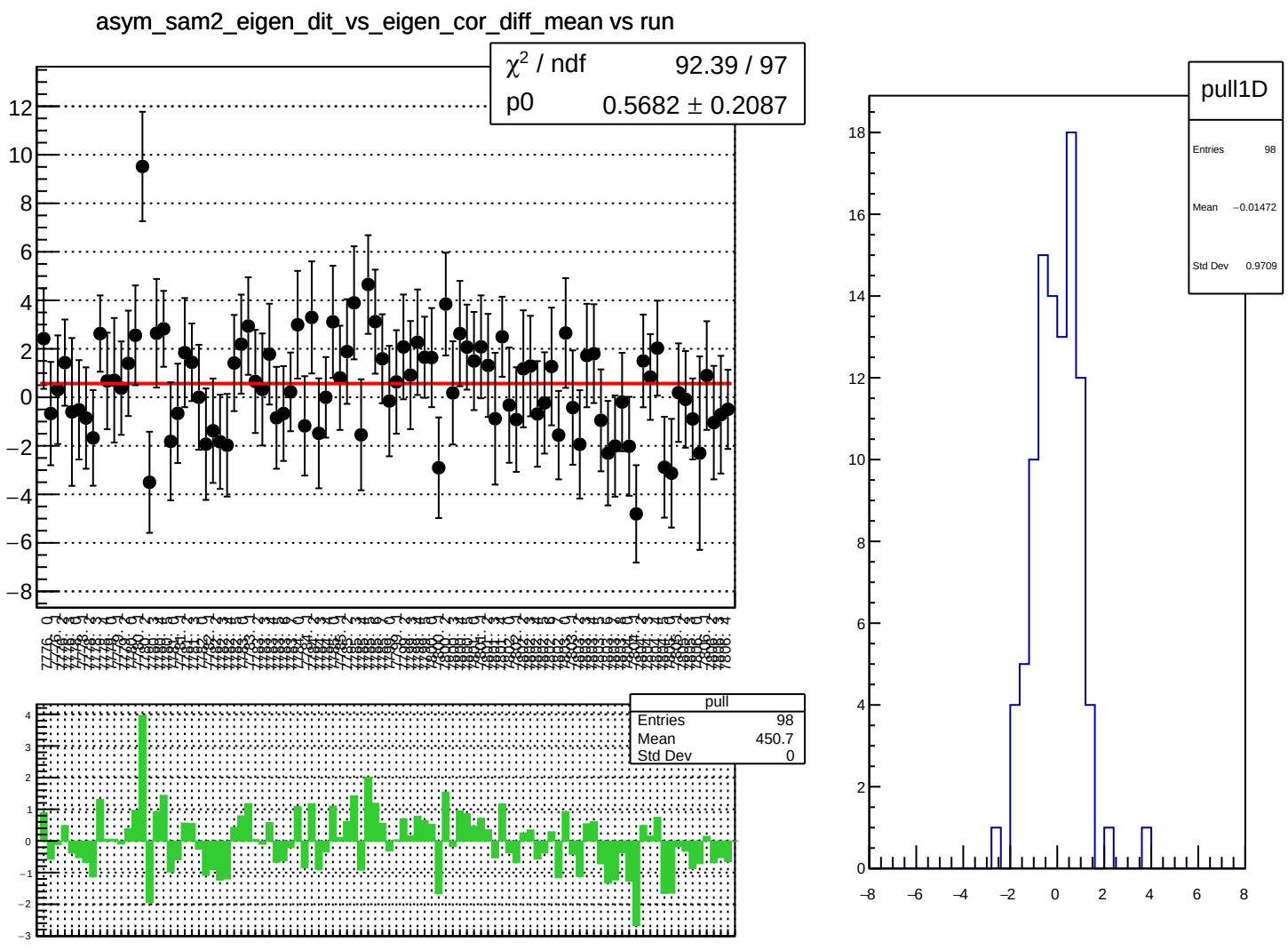

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.65 / 97
p0 −1.251e−05 ± 9.473e−06
pull
Entries 98
Mean 226.3
Std Dev 0

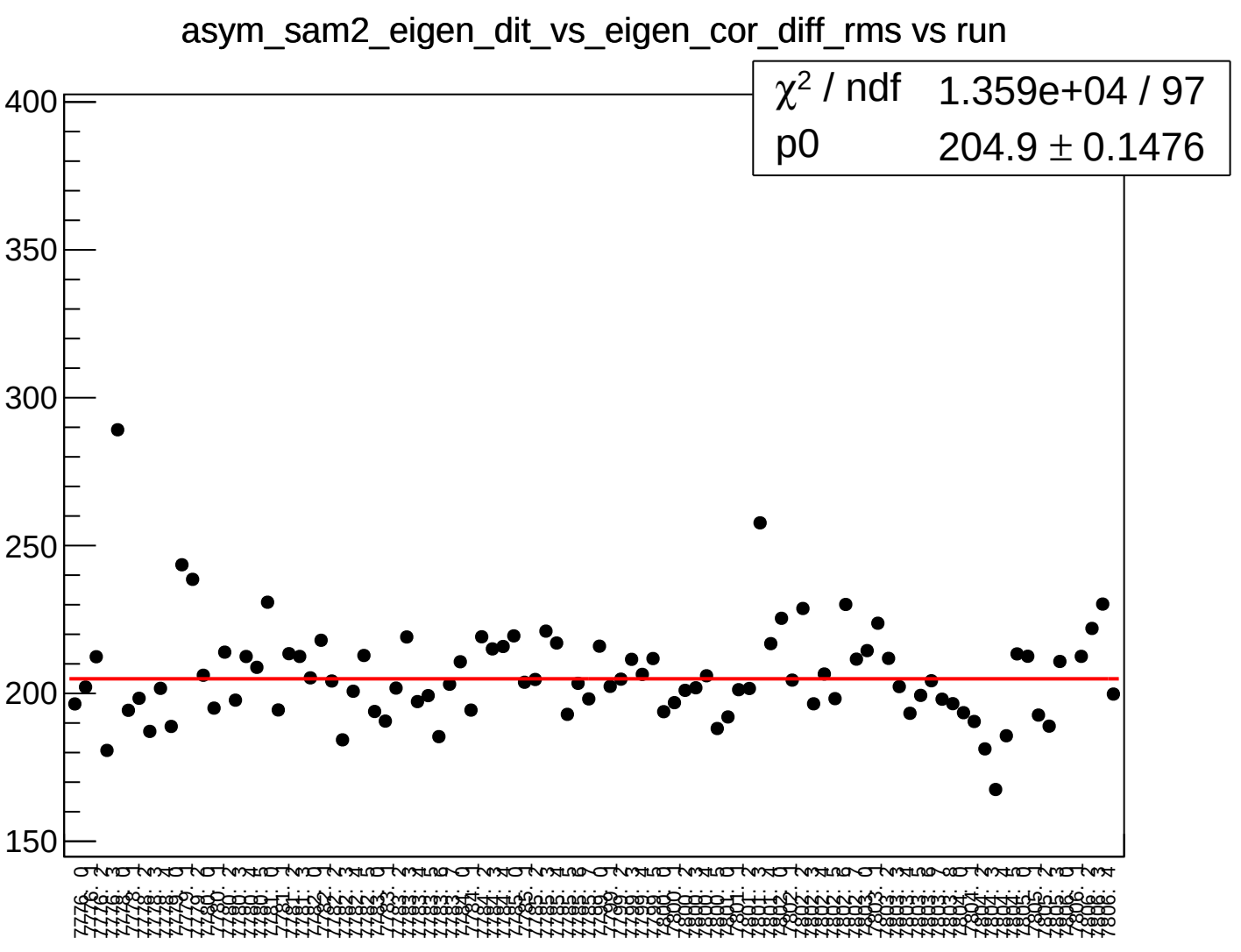

pull1D
Entries 98
Mean −0.02689
Std Dev 0.7991

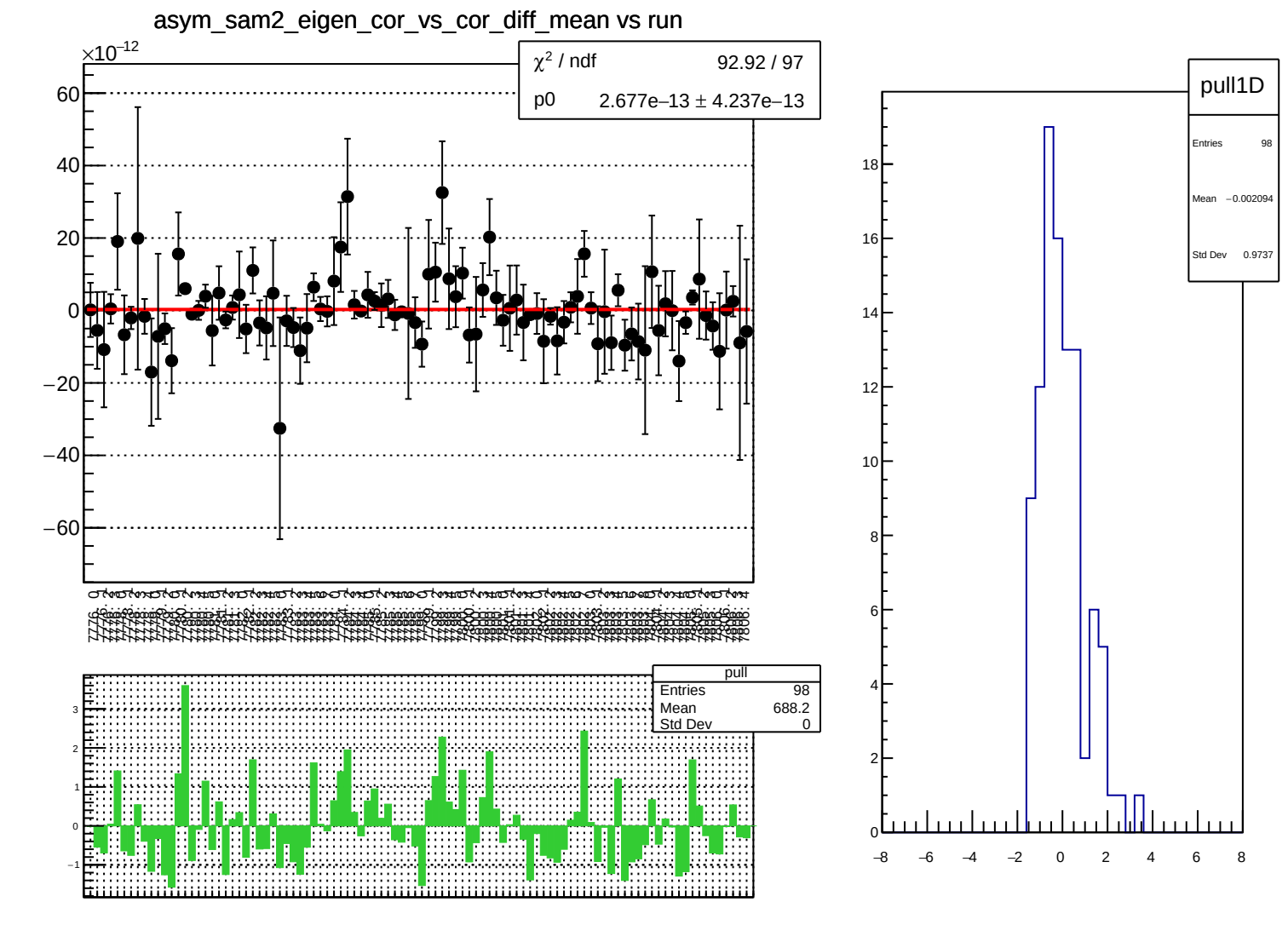

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.759e+04 / 97
p0 0.009197 ± 6.698e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

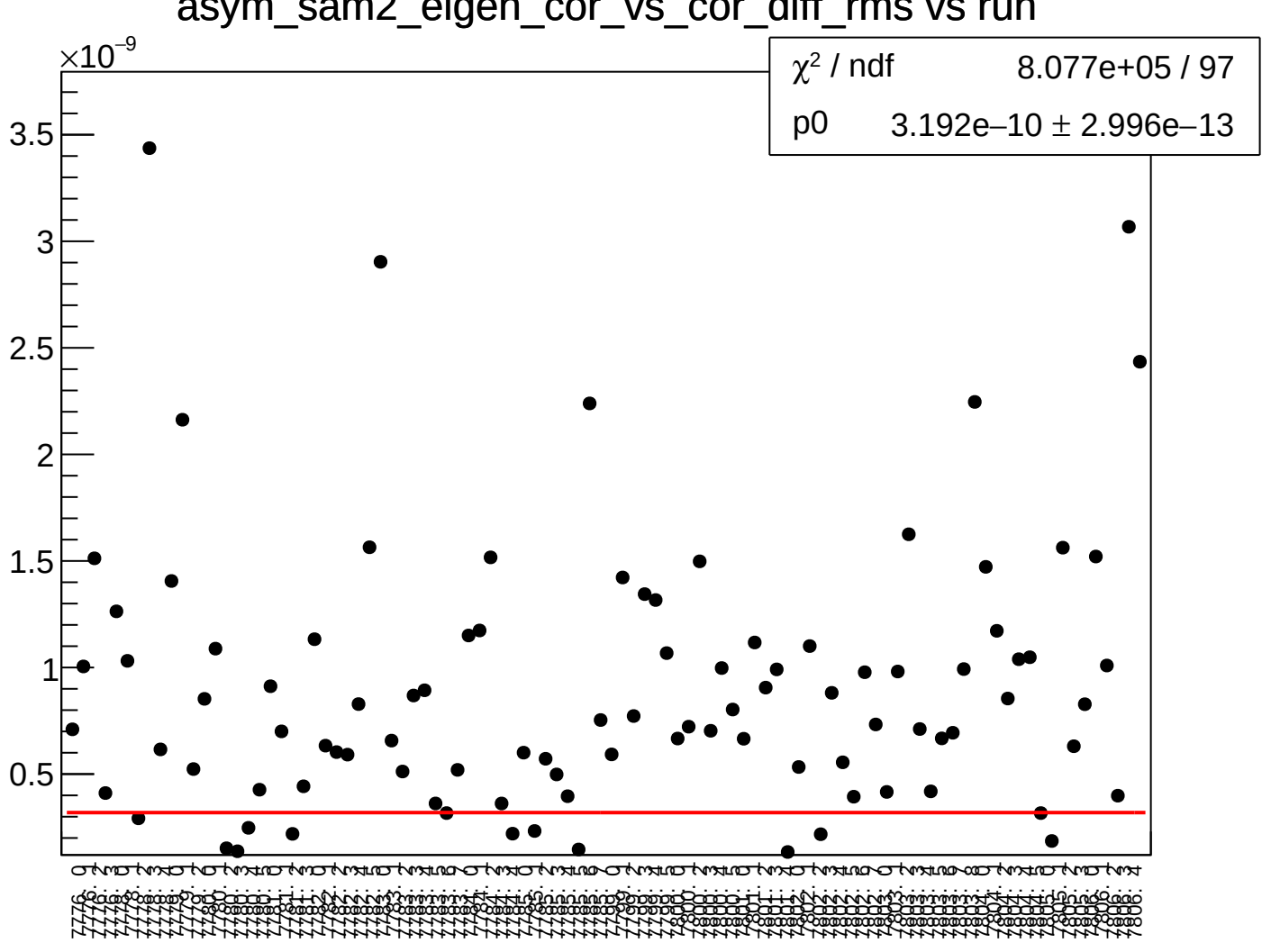

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.39 / 97
p0 0.5682 ± 0.2087
pull
Entries 98
Mean 450.7
Std Dev 0
pull1D
Entries 98
Mean −0.01472
Std Dev 0.9709

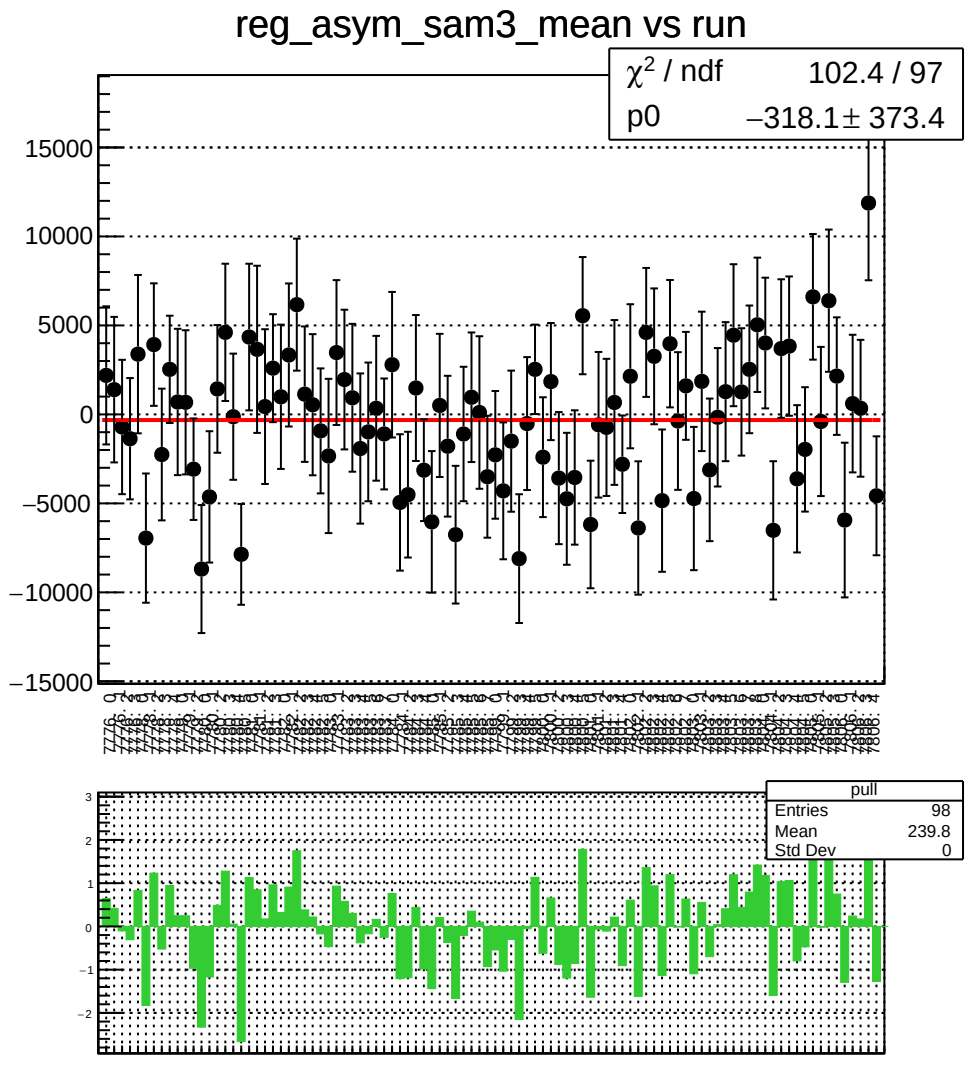

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.359e+04 / 97
p0 204.9 ± 0.1476
400
350
300
250
200
150

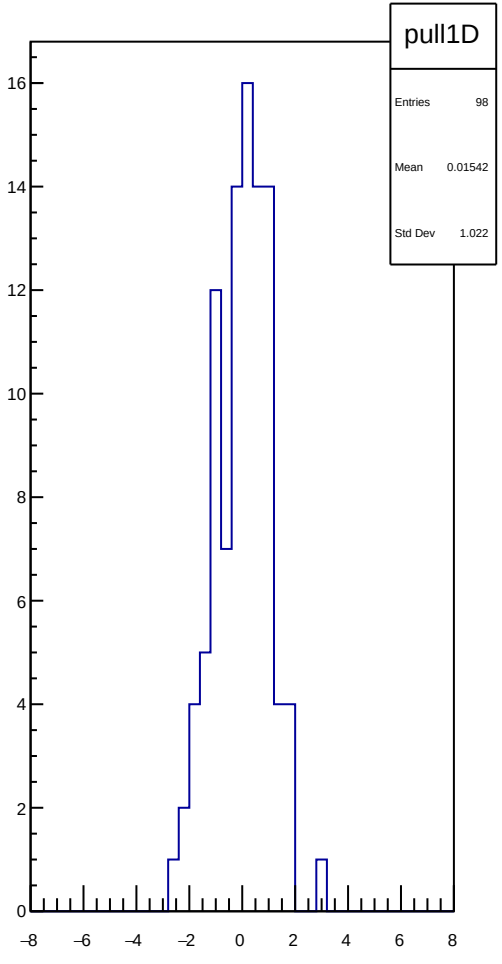

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.39 / 97
p0 0.5682 ± 0.2087
pull
Entries 98
Mean 450.7
Std Dev 0
pull1D
Entries 98
Mean −0.01472
Std Dev 0.9709

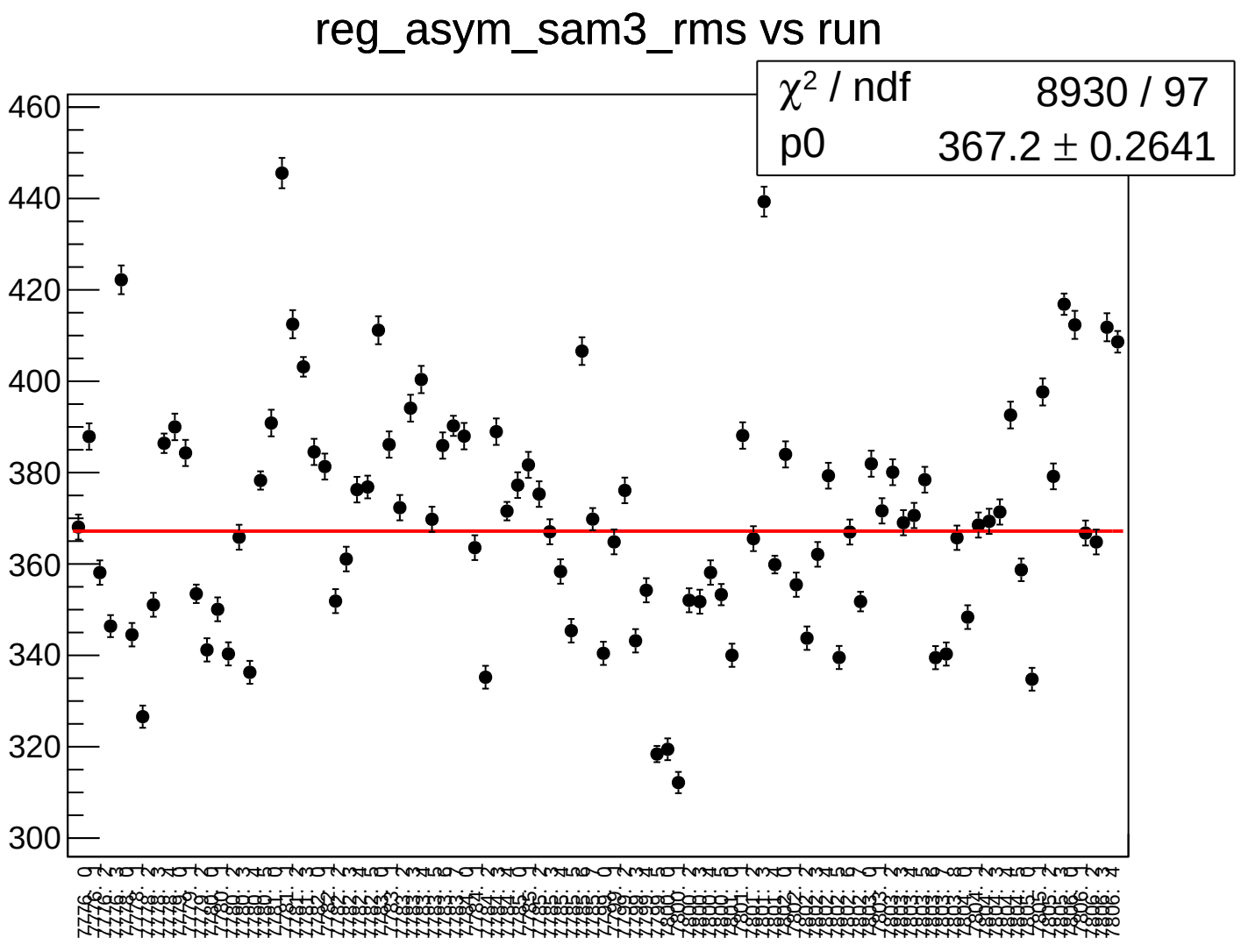

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.359e+04 / 97
p0 204.9 ± 0.1476
400
350
300
250
200
150

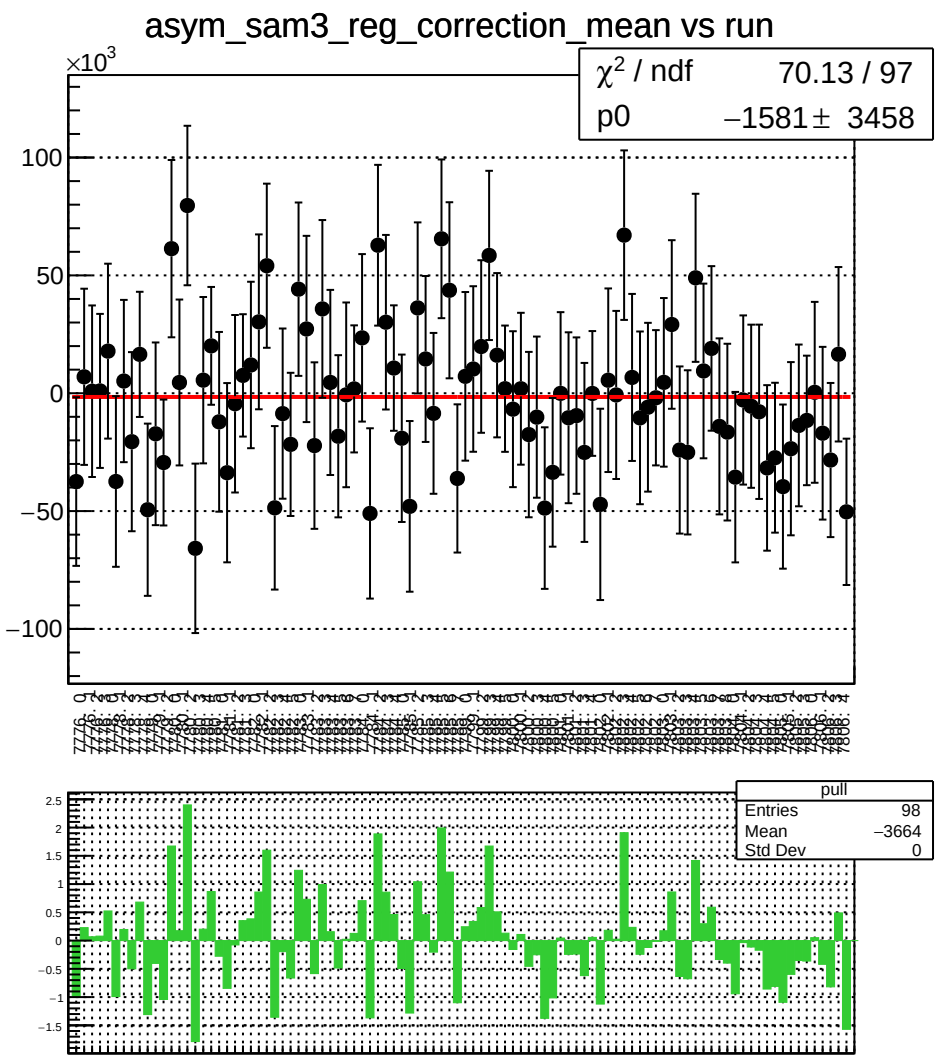

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.92 / 97
p0 2.677e−13 ± 4.237e−13
pull
Entries 98
Mean 688.2
Std Dev 0
pull1D
Entries 98
Mean −0.002094
Std Dev 0.9737

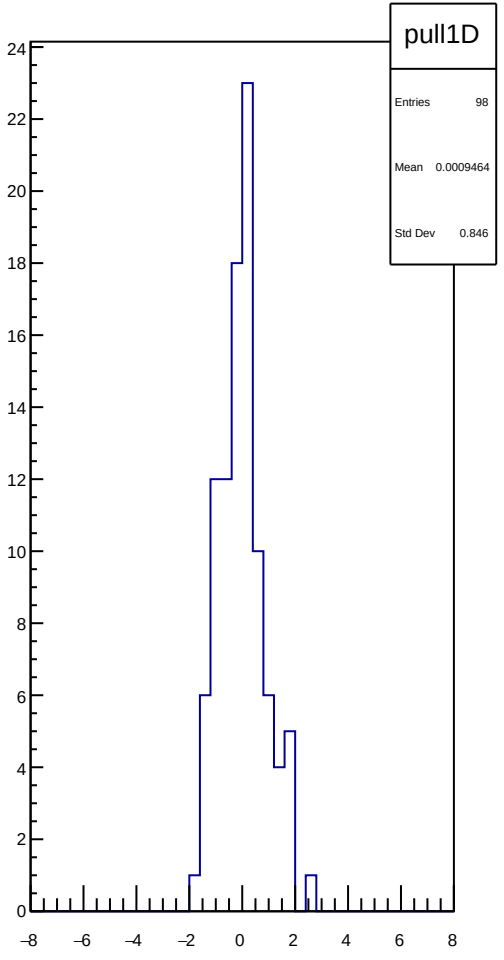

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.077e+05 / 97
p0 3.192e−10 ± 2.996e−13
3.5
3
2.5
2
1.5
1
0.5

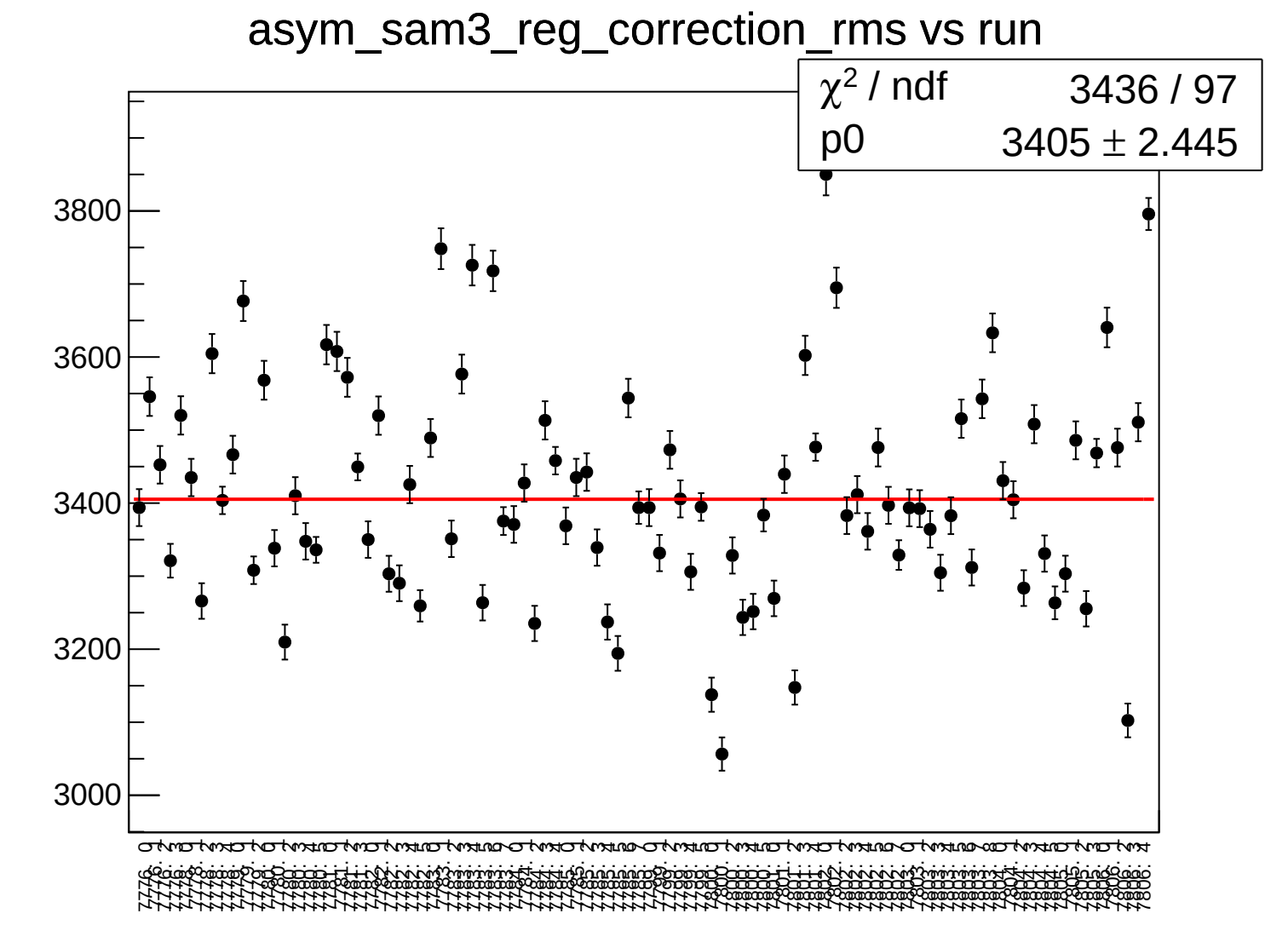

reg_asym_sam3_mean vs run
χ² / ndf 102.4 / 97
p0 −318.1± 373.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 239.8
Std Dev 0
3
2
1
0
−1
−2

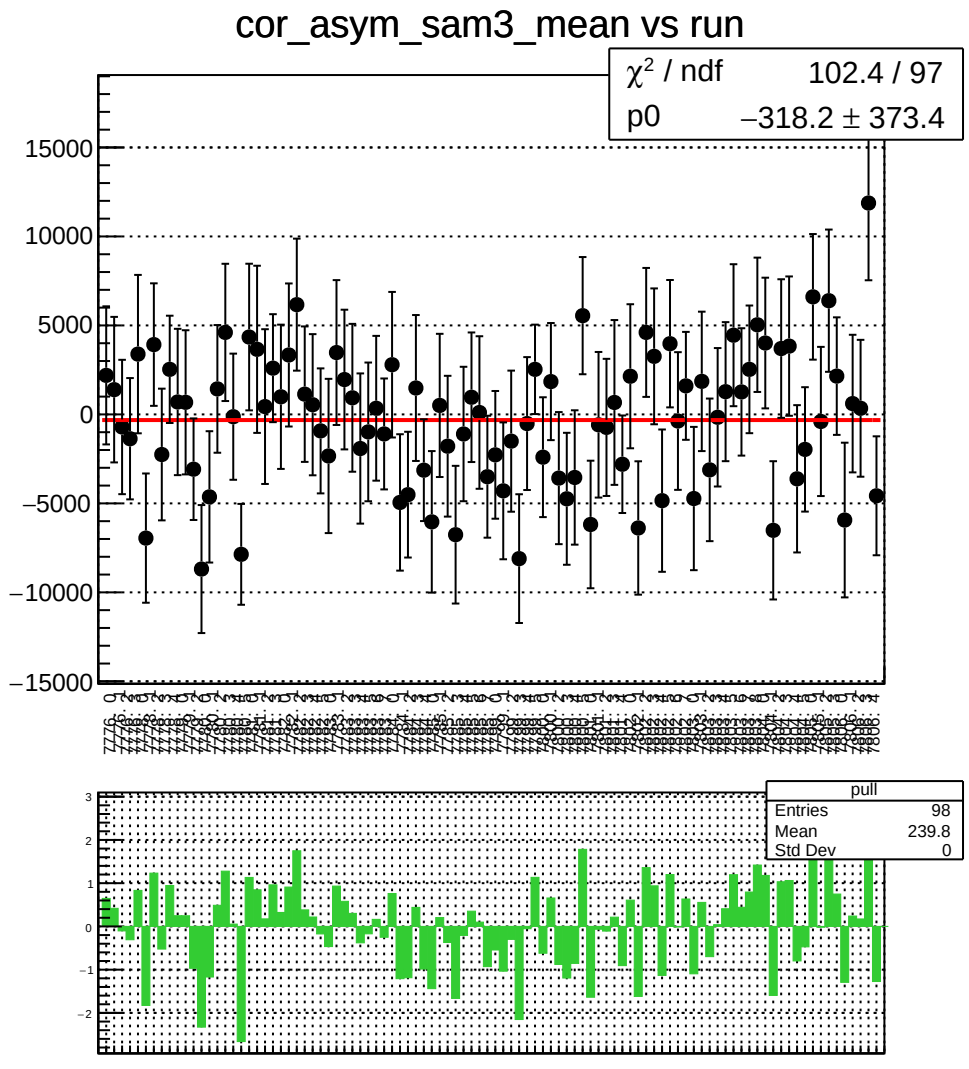

pull1D
Entries 98
Mean 0.01542
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

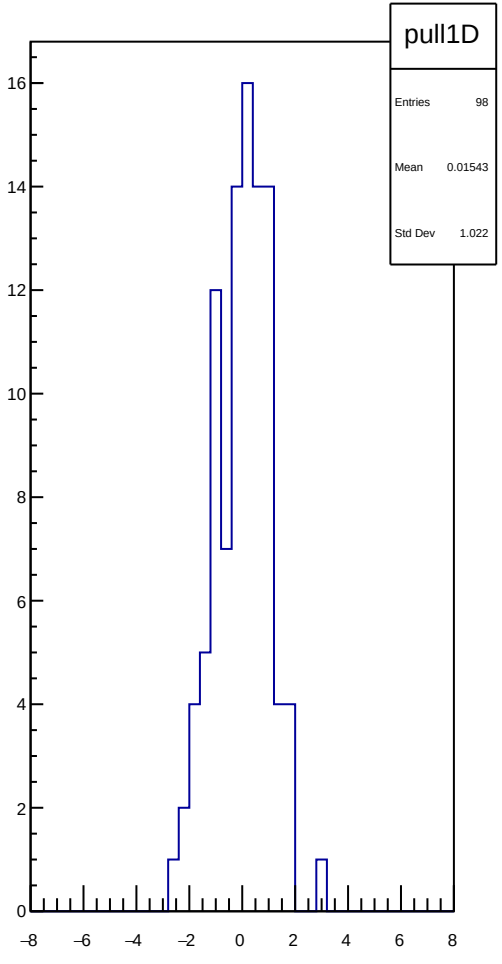

reg_asym_sam3_rms vs run
χ² / ndf 8930 / 97
p0 367.2 ± 0.2641
460
440
420
400
380
360
340
320
300

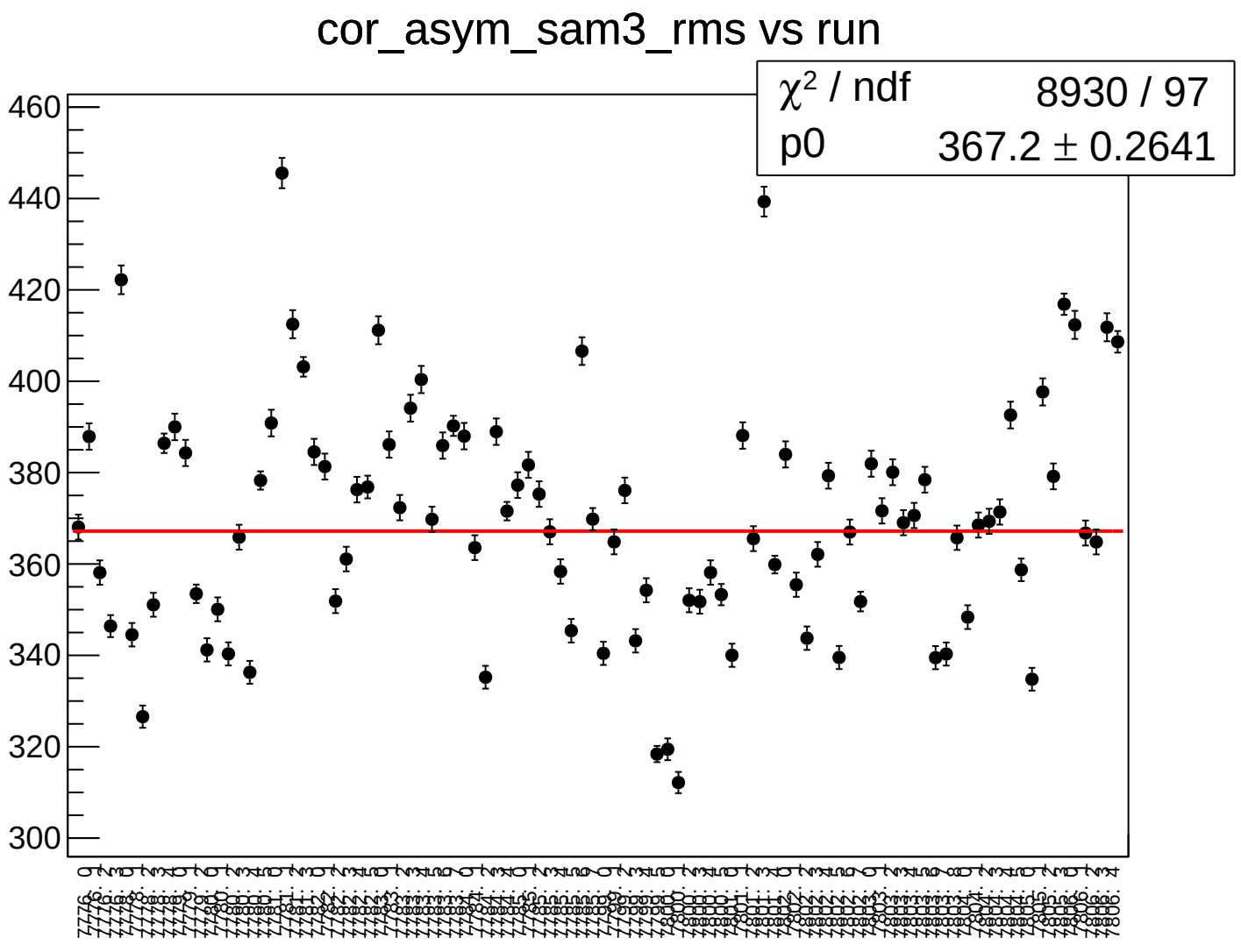

asym_sam3_reg_correction_mean vs run
×10^3
χ^2 / ndf 70.13 / 97
p0 −1581 ± 3458
100
50
0
−50
−100
pull
Entries 98
Mean −3664
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

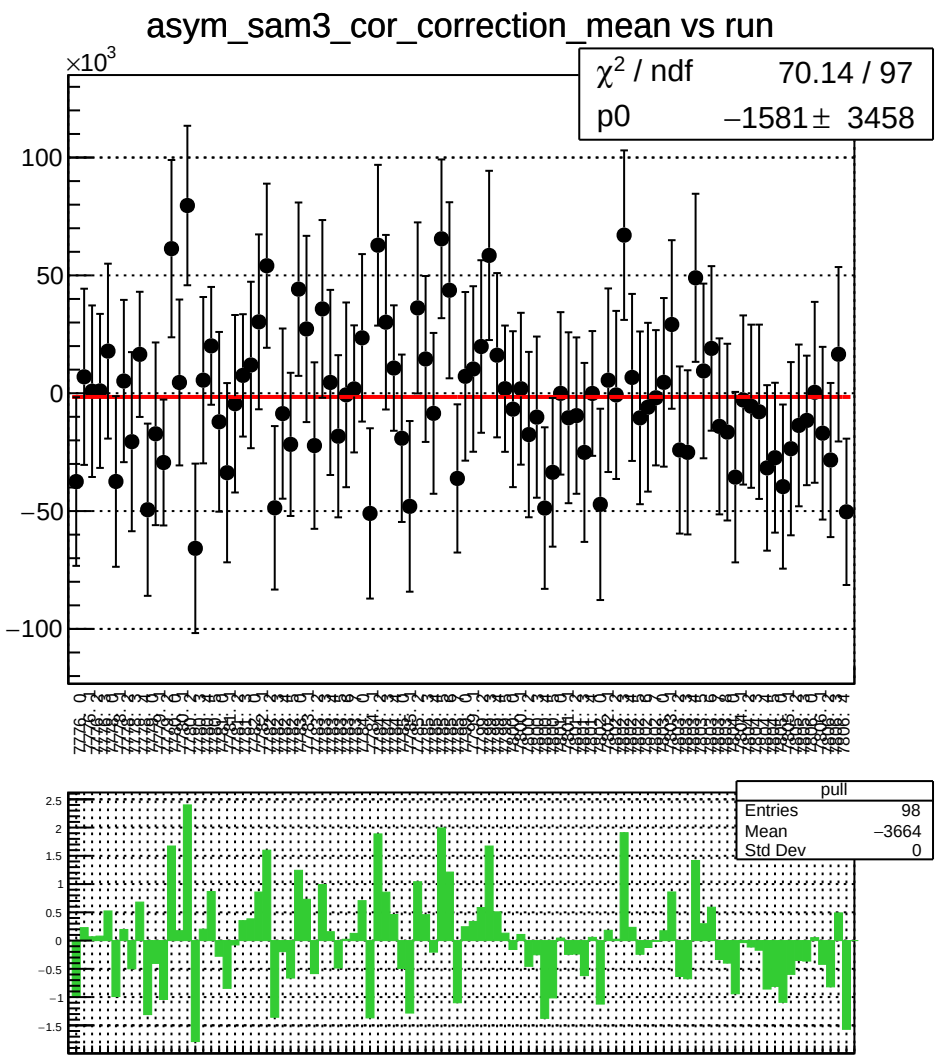

pull1D
Entries 98
Mean 0.0009464
Std Dev 0.846
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

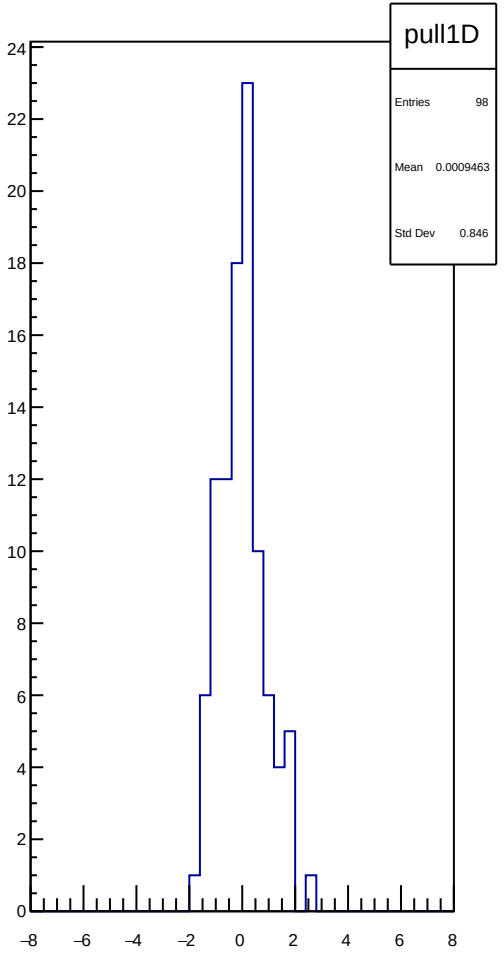

asym_sam3_reg_correction_rms vs run
χ² / ndf 3436 / 97
p0 3405 ± 2.445
3800
3600
3400
3200
3000

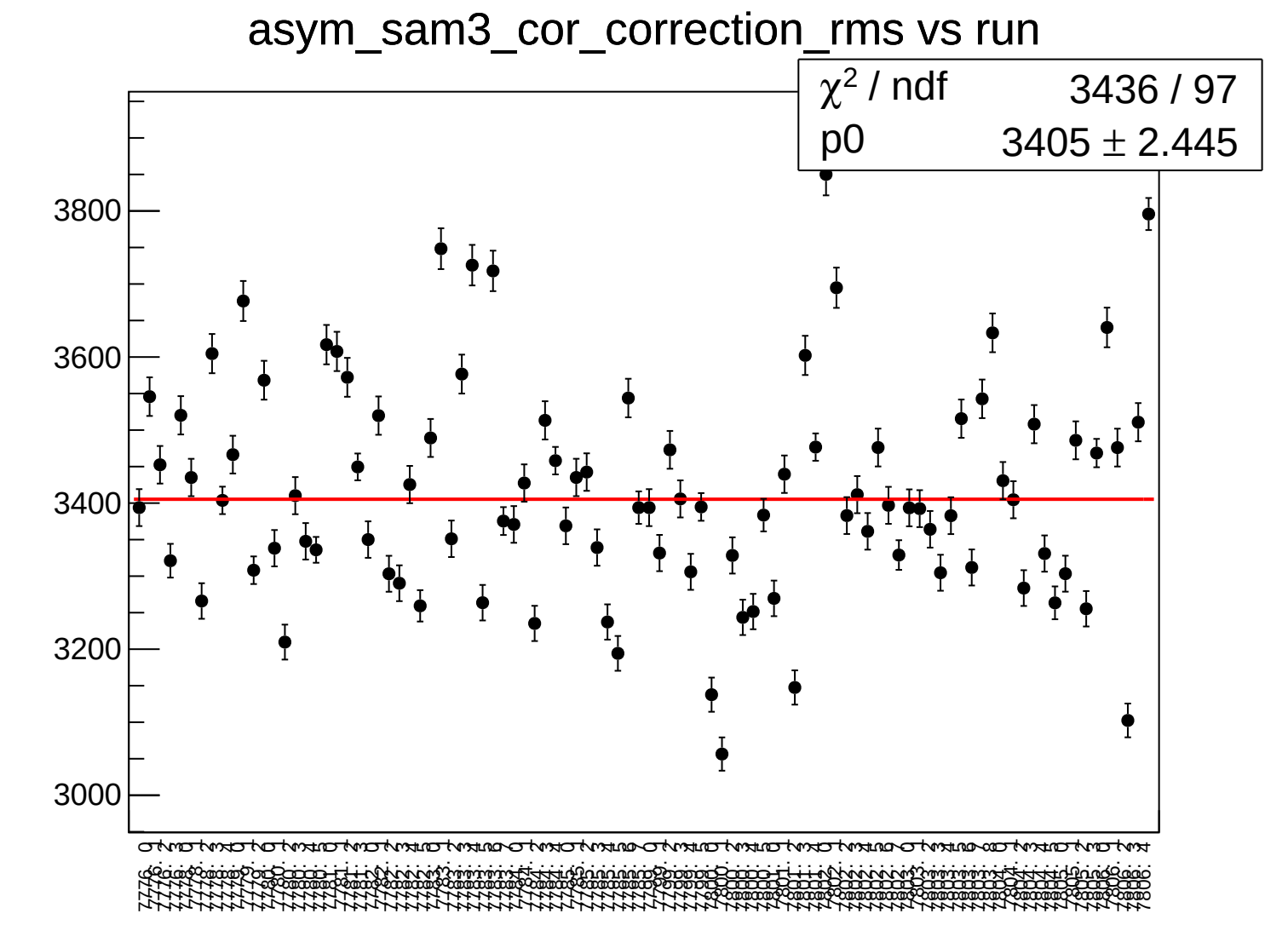

cor_asym_sam3_mean vs run
χ² / ndf 102.4 / 97
p0 −318.2 ± 373.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 239.8
Std Dev 0
3
2
1
0
−1
−2

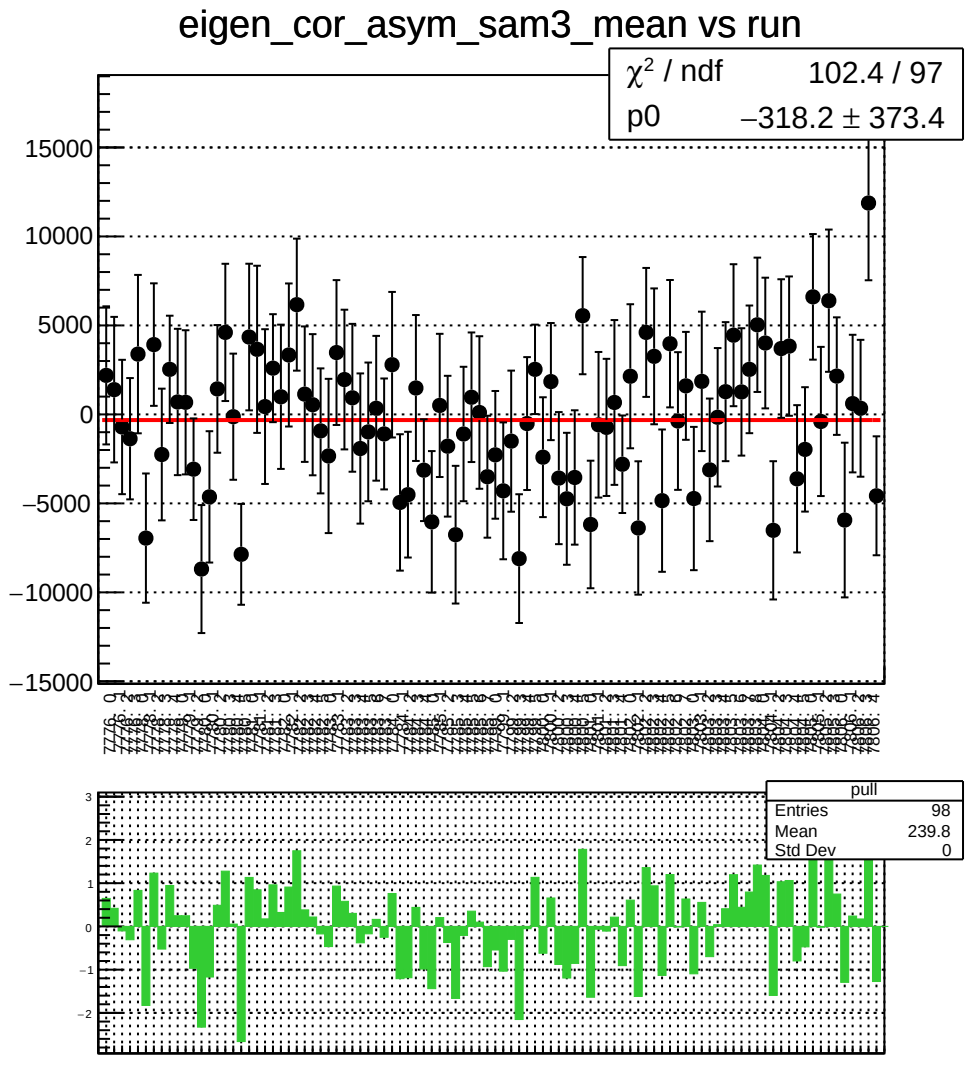

pull1D
Entries 98
Mean 0.01543
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

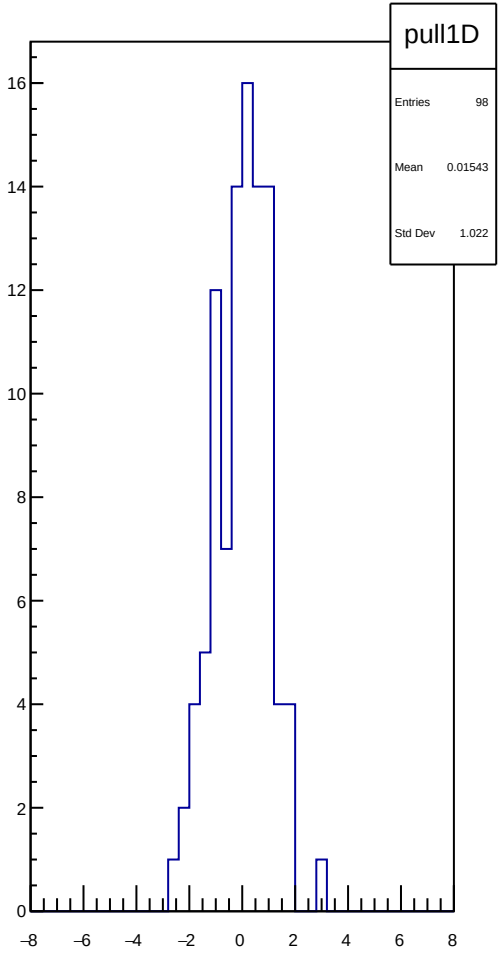

cor_asym_sam3_rms vs run
χ² / ndf 8930 / 97
p0 367.2 ± 0.2641
460
440
420
400
380
360
340
320
300

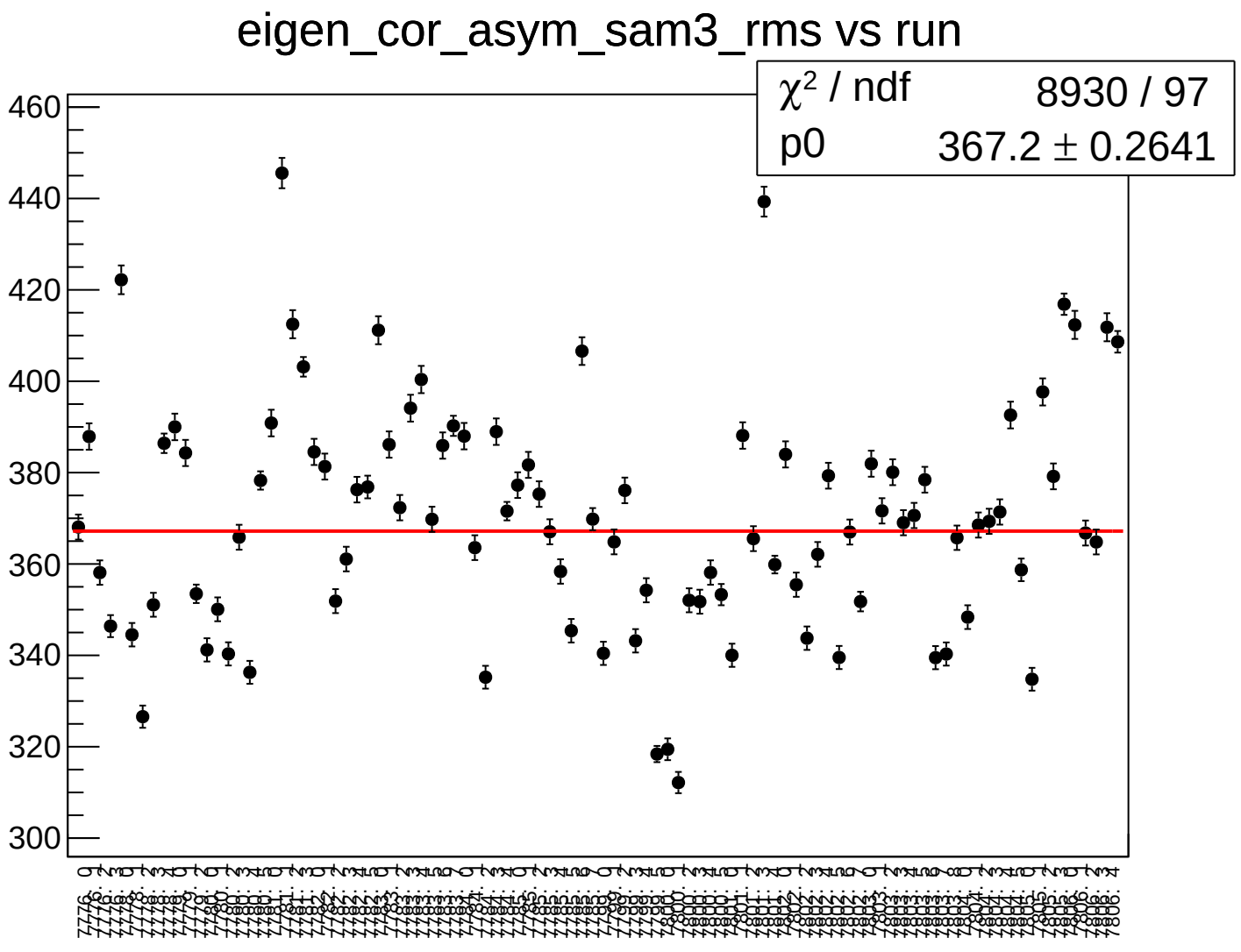

asym_sam3_cor_correction_mean vs run
×10^3
χ^2 / ndf 70.14 / 97
p0 −1581 ± 3458
100
50
0
−50
−100
pull
Entries 98
Mean −3664
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

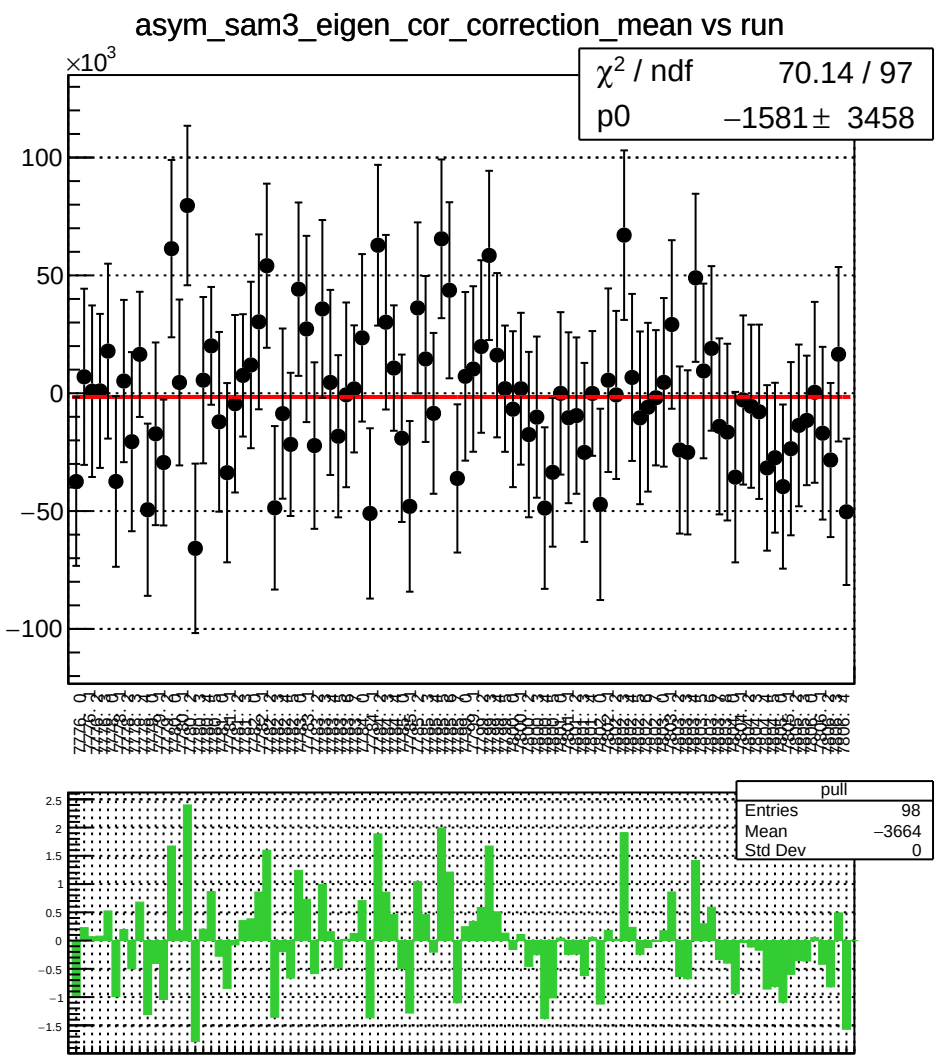

pull1D
Entries 98
Mean 0.0009463
Std Dev 0.846
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

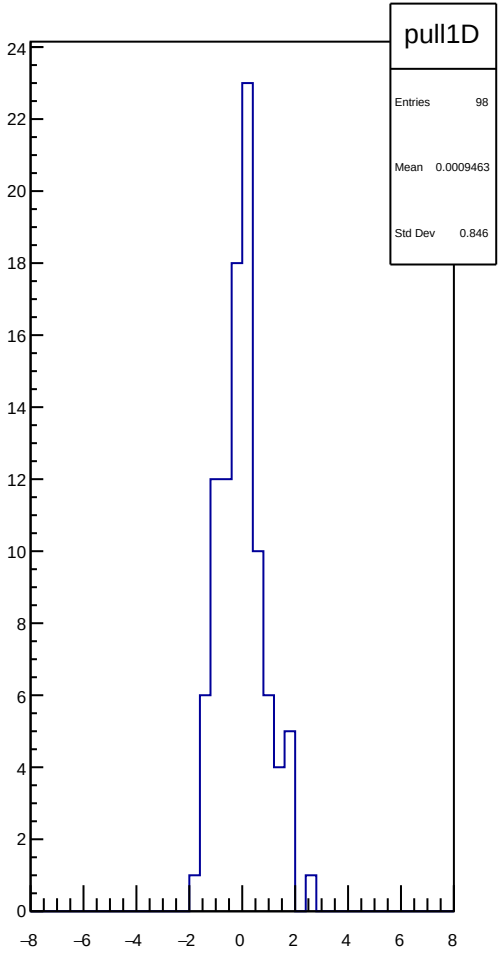

asym_sam3_cor_correction_rms vs run
χ² / ndf 3436 / 97
p0 3405 ± 2.445
3800
3600
3400
3200
3000

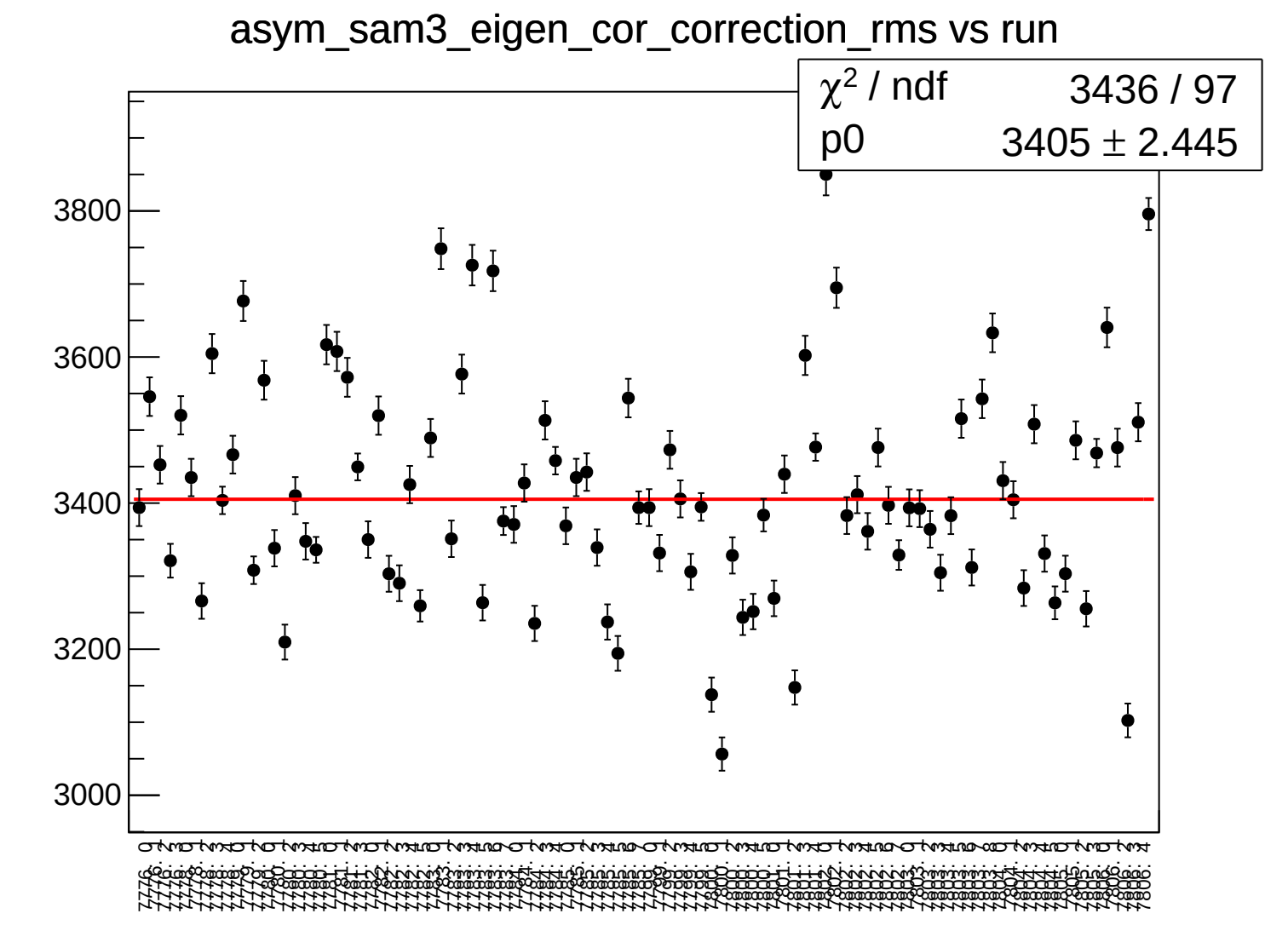

eigen_cor_asym_sam3_mean vs run
χ² / ndf 102.4 / 97
p0 −318.2 ± 373.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 239.8
Std Dev 0
3
2
1
0
−1
−2

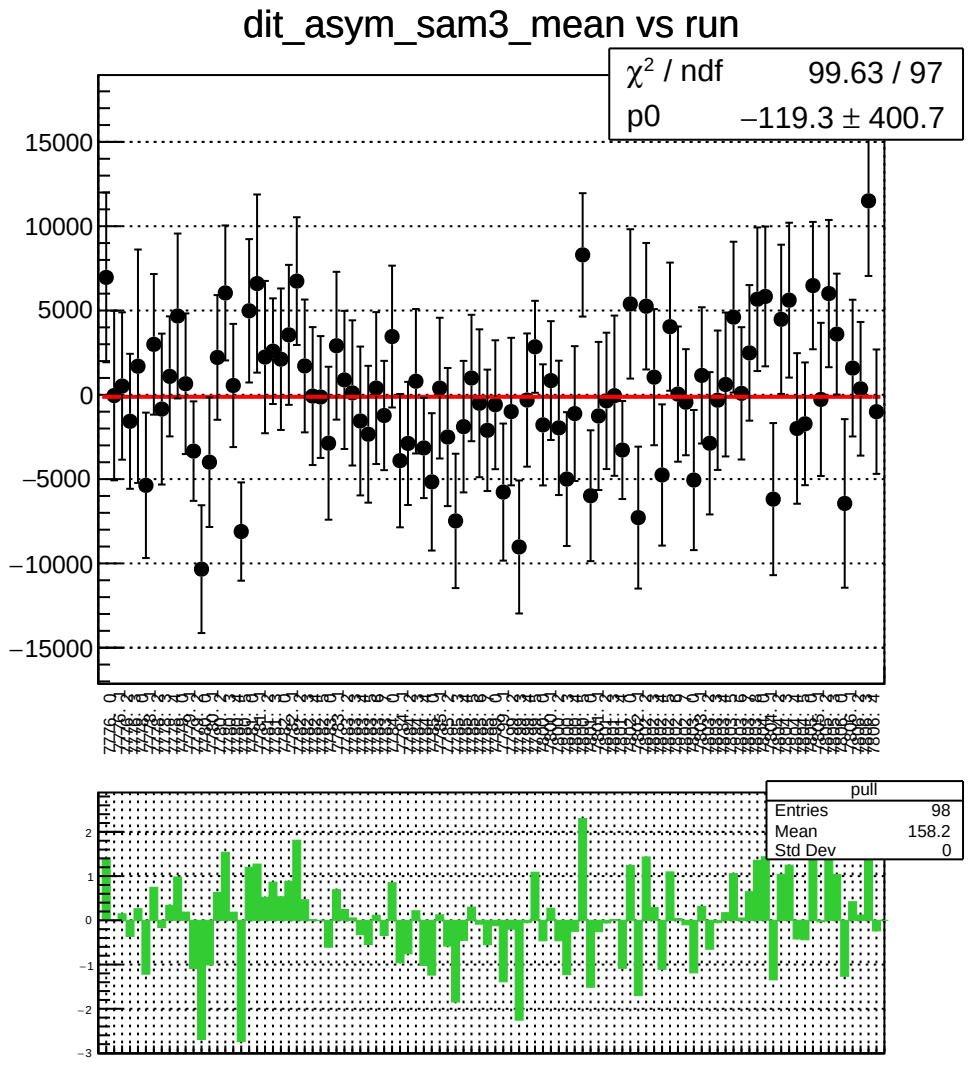

pull1D
Entries 98
Mean 0.01543
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

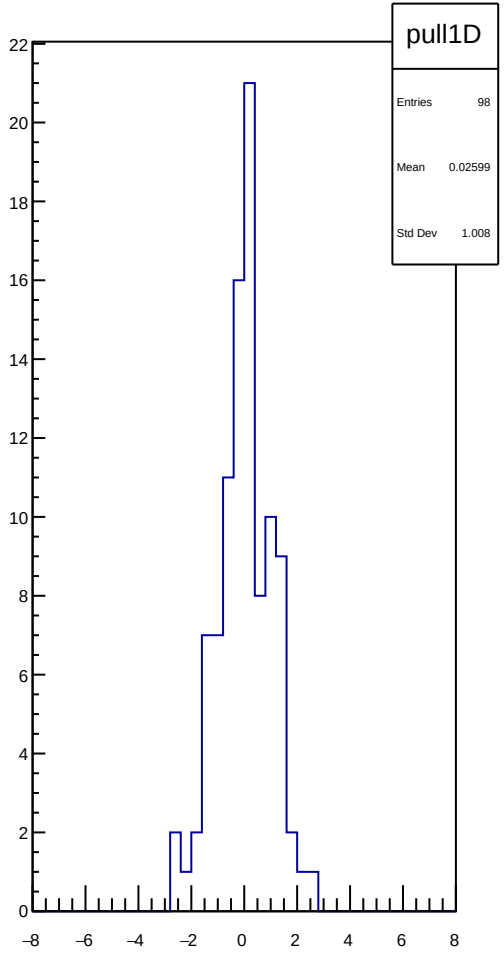

eigen_cor_asym_sam3_rms vs run
χ² / ndf 8930 / 97
p0 367.2 ± 0.2641
460
440
420
400
380
360
340
320
300

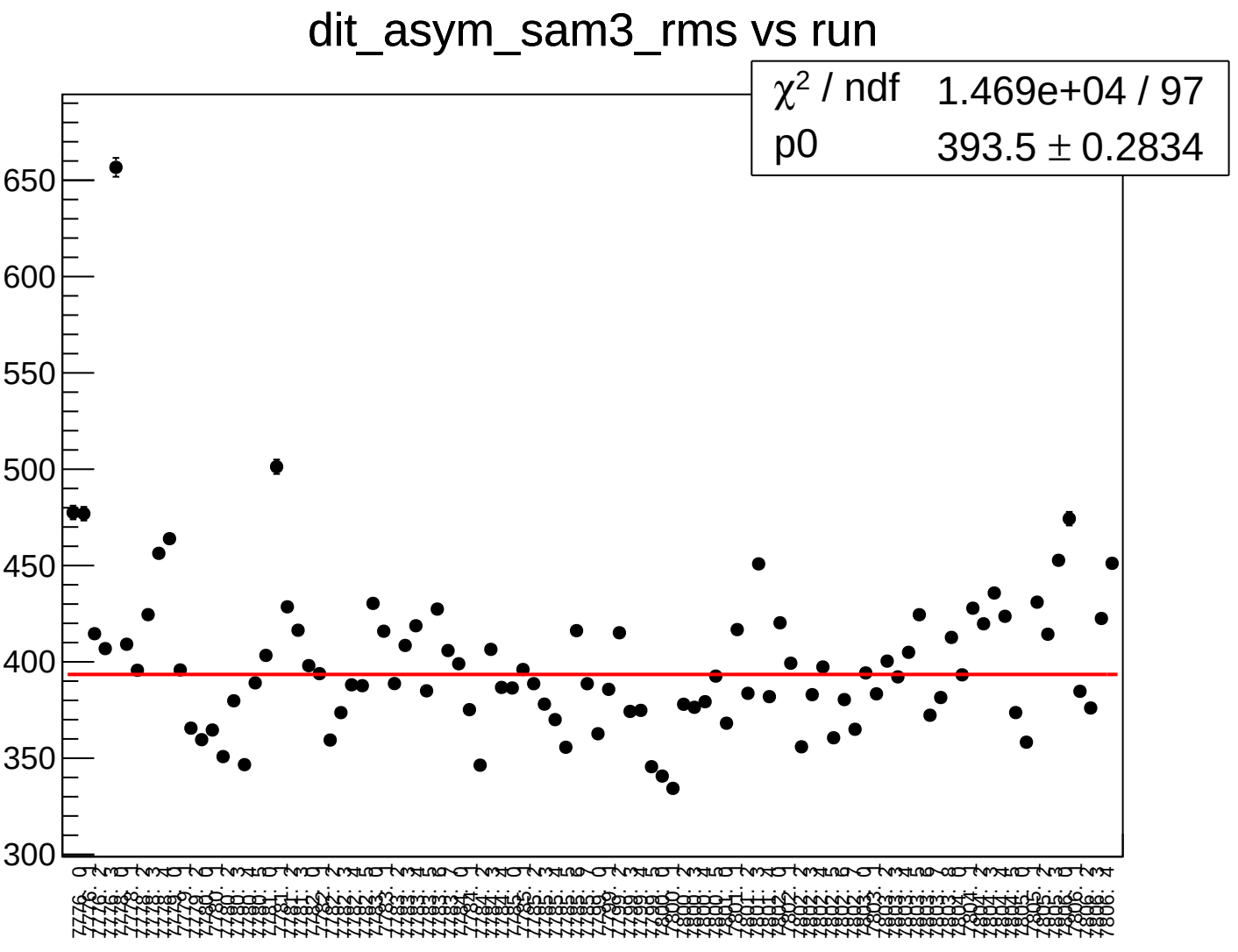

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 70.14 / 97
p0 −1581 ± 3458
100
50
0
−50
−100
pull
Entries 98
Mean −3664
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

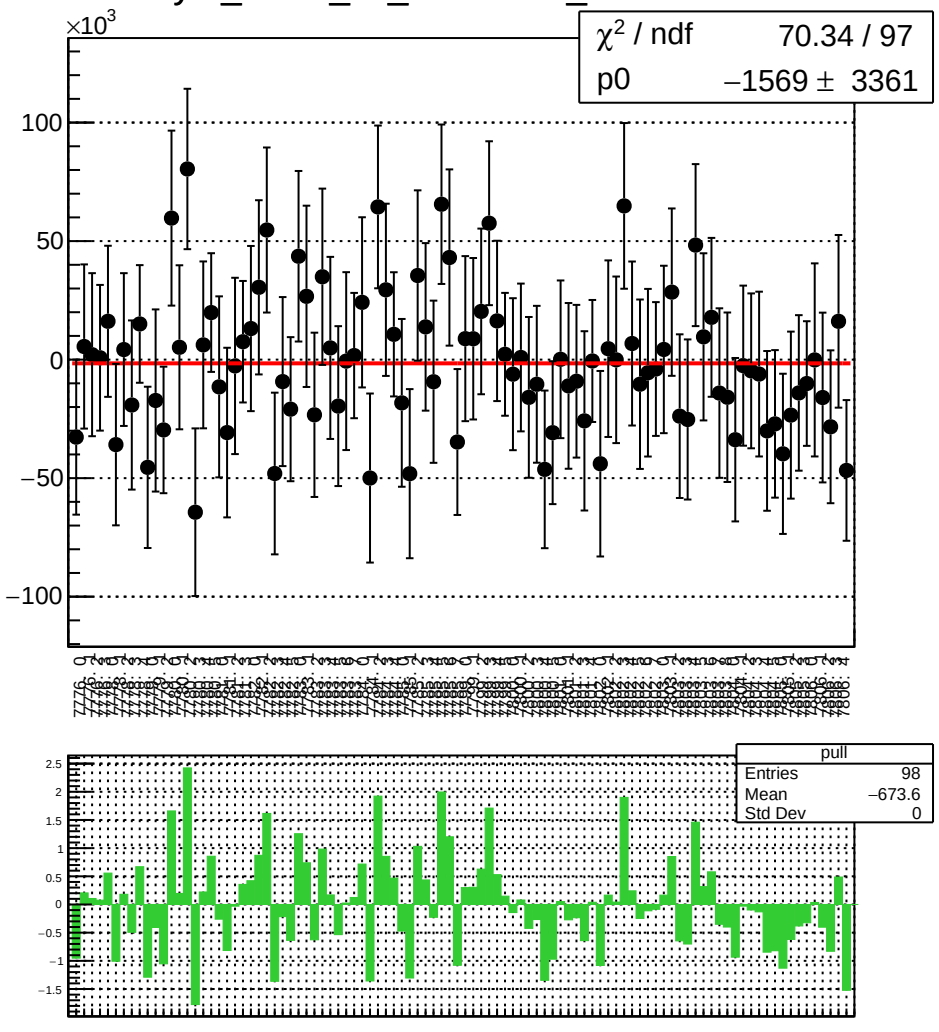

pull1D
Entries 98
Mean 0.0009463
Std Dev 0.846
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

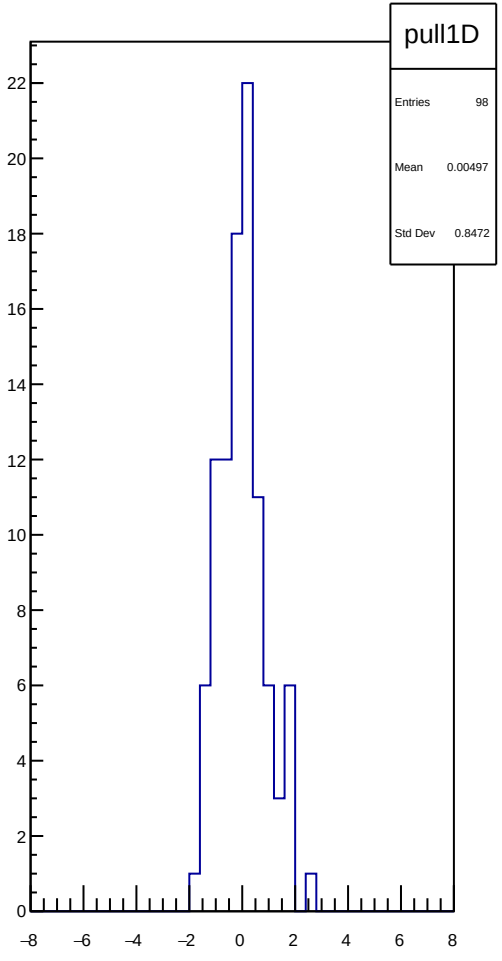

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 3436 / 97
p0 3405 ± 2.445
3800
3600
3400
3200
3000

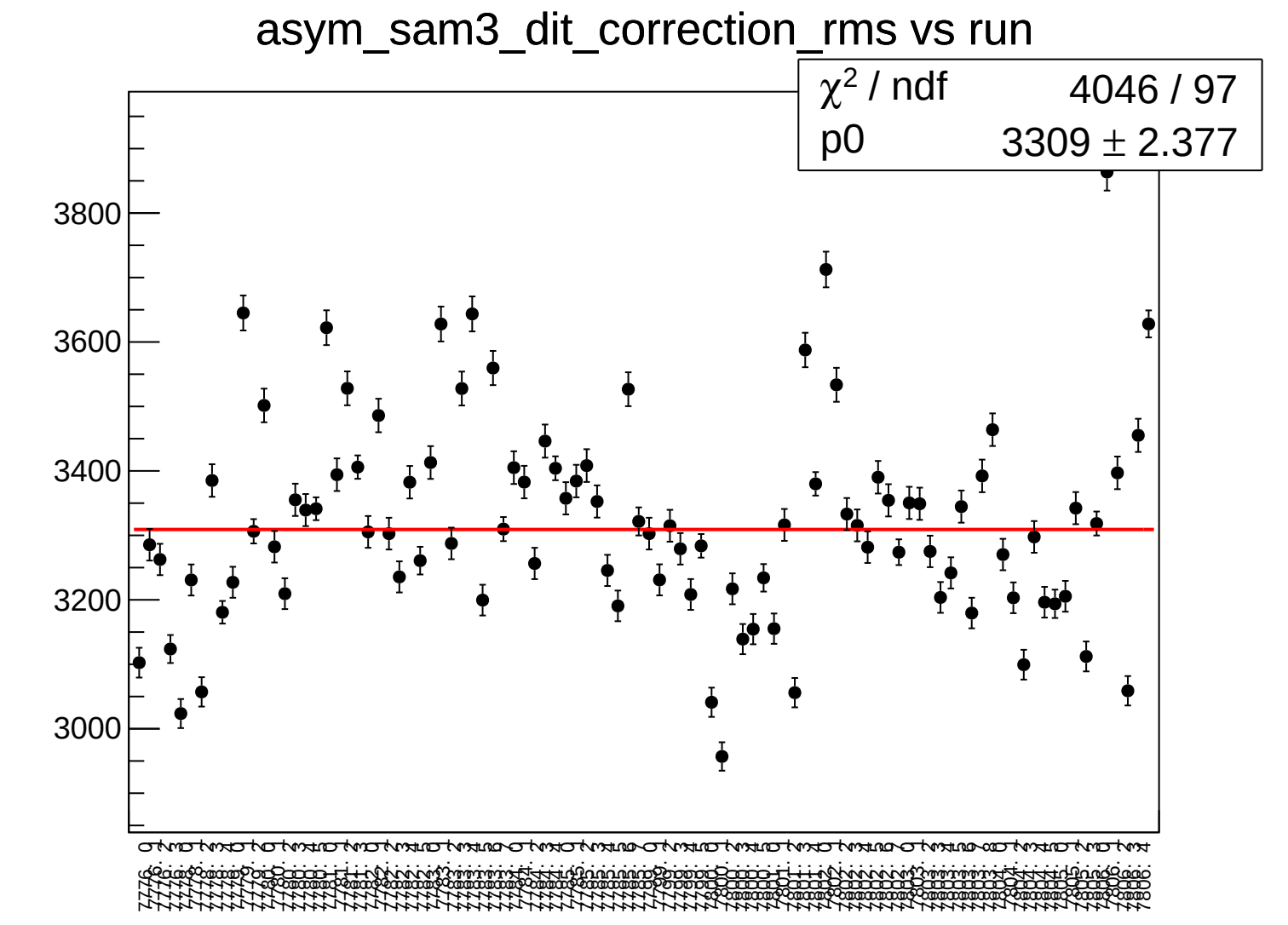

dit_asym_sam3_mean vs run
χ² / ndf 99.63 / 97
p0 −119.3 ± 400.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 158.2
Std Dev 0
2
1
0
−1
−2
−3

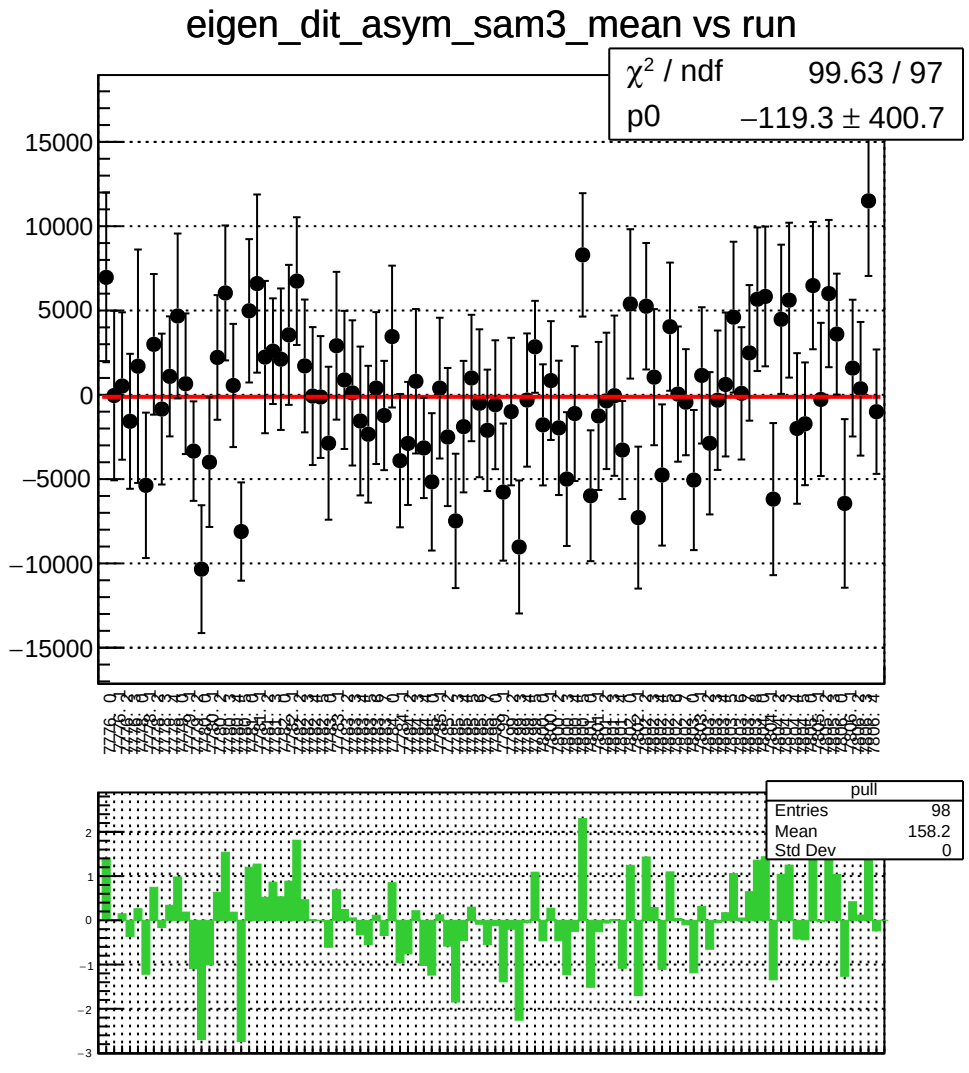

pull1D
Entries 98
Mean 0.02599
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

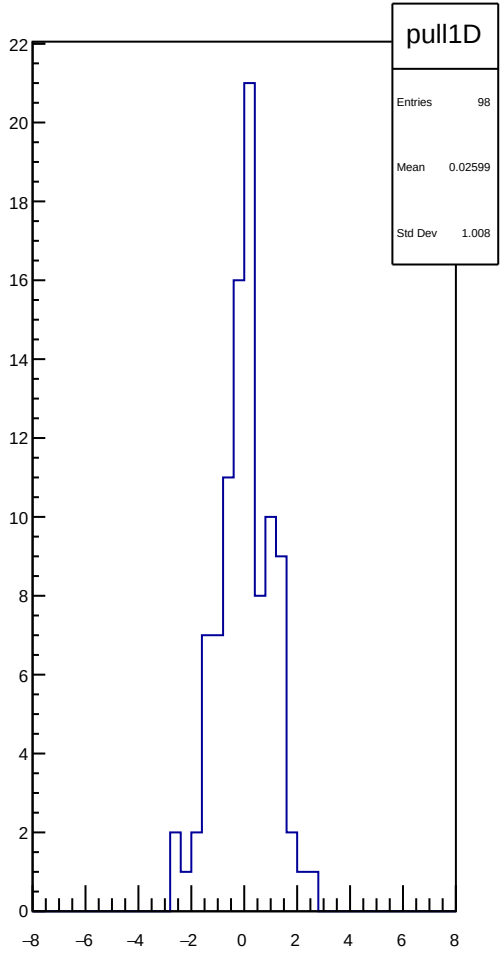

dit_asym_sam3_rms vs run
χ² / ndf 1.469e+04 / 97
p0 393.5 ± 0.2834
650
600
550
500
450
400
350
300

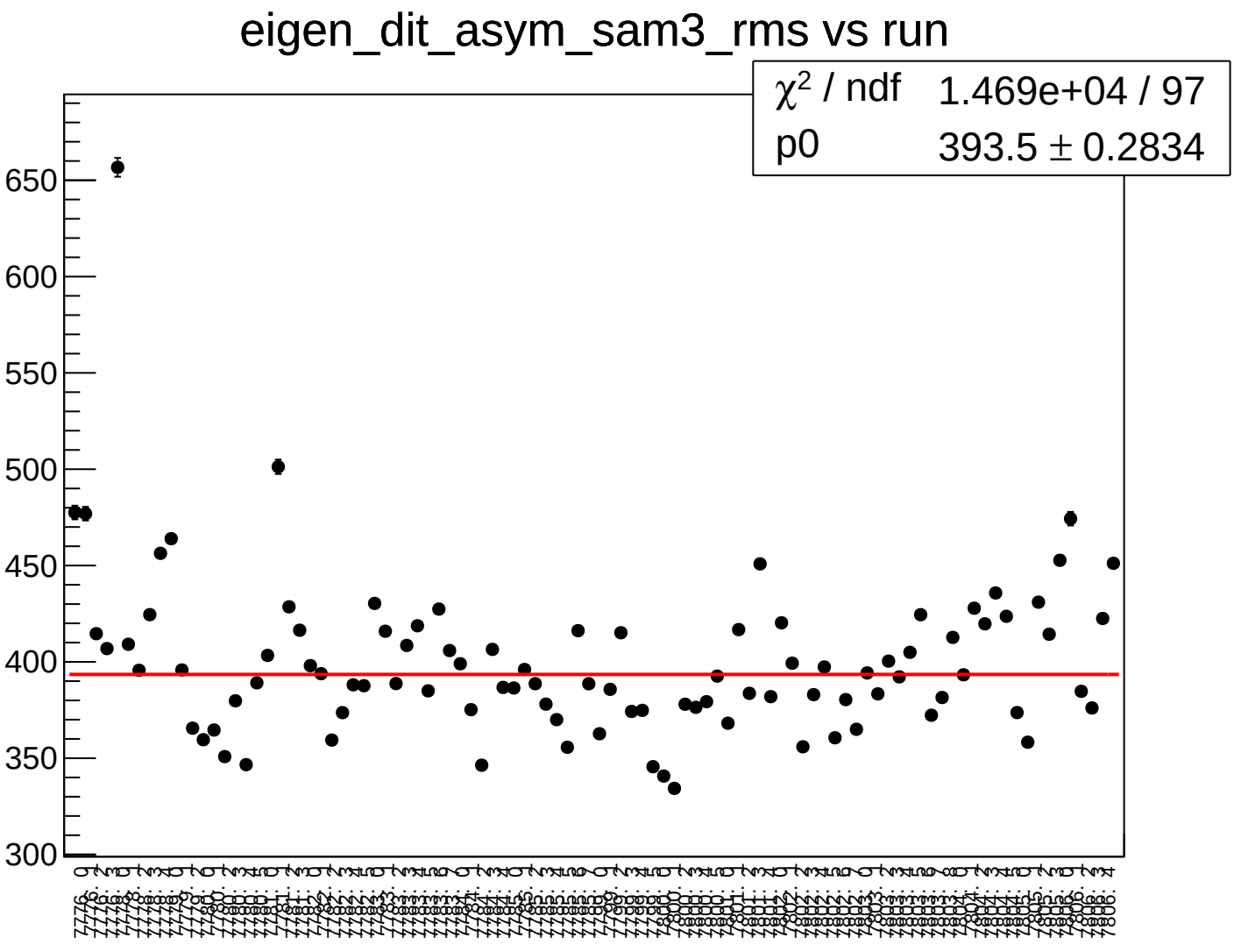

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 70.34 / 97
p0 −1569 ± 3361
100
50
0
−50
−100
pull
Entries 98
Mean −673.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

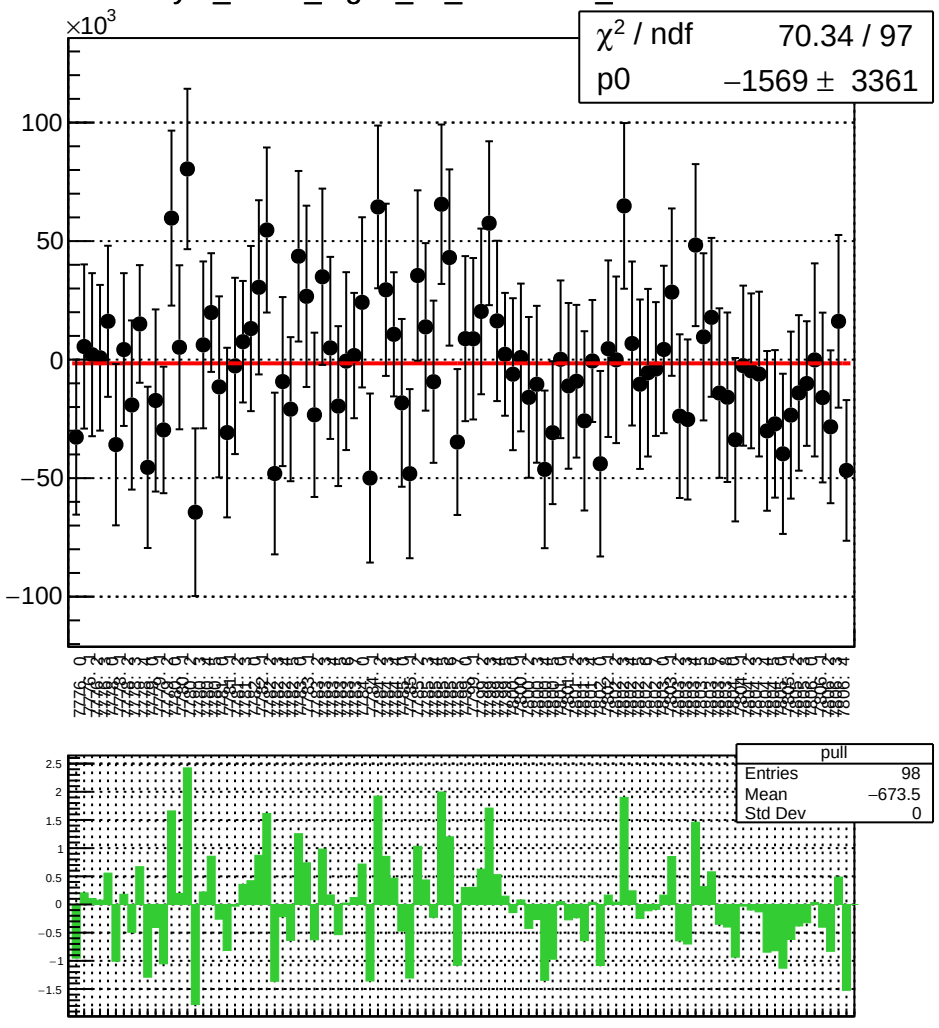

pull1D
Entries 98
Mean 0.00497
Std Dev 0.8472
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

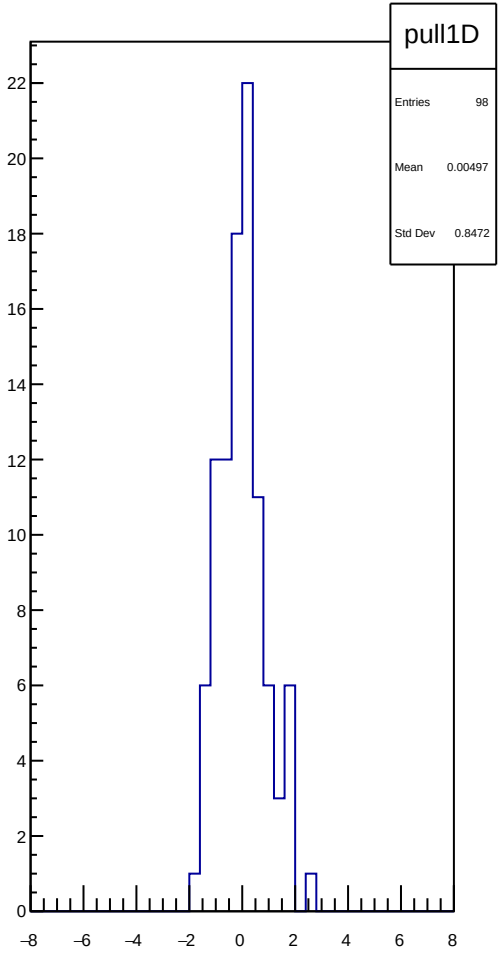

asym_sam3_dit_correction_rms vs run
χ² / ndf 4046 / 97
p0 3309 ± 2.377
3800
3600
3400
3200
3000

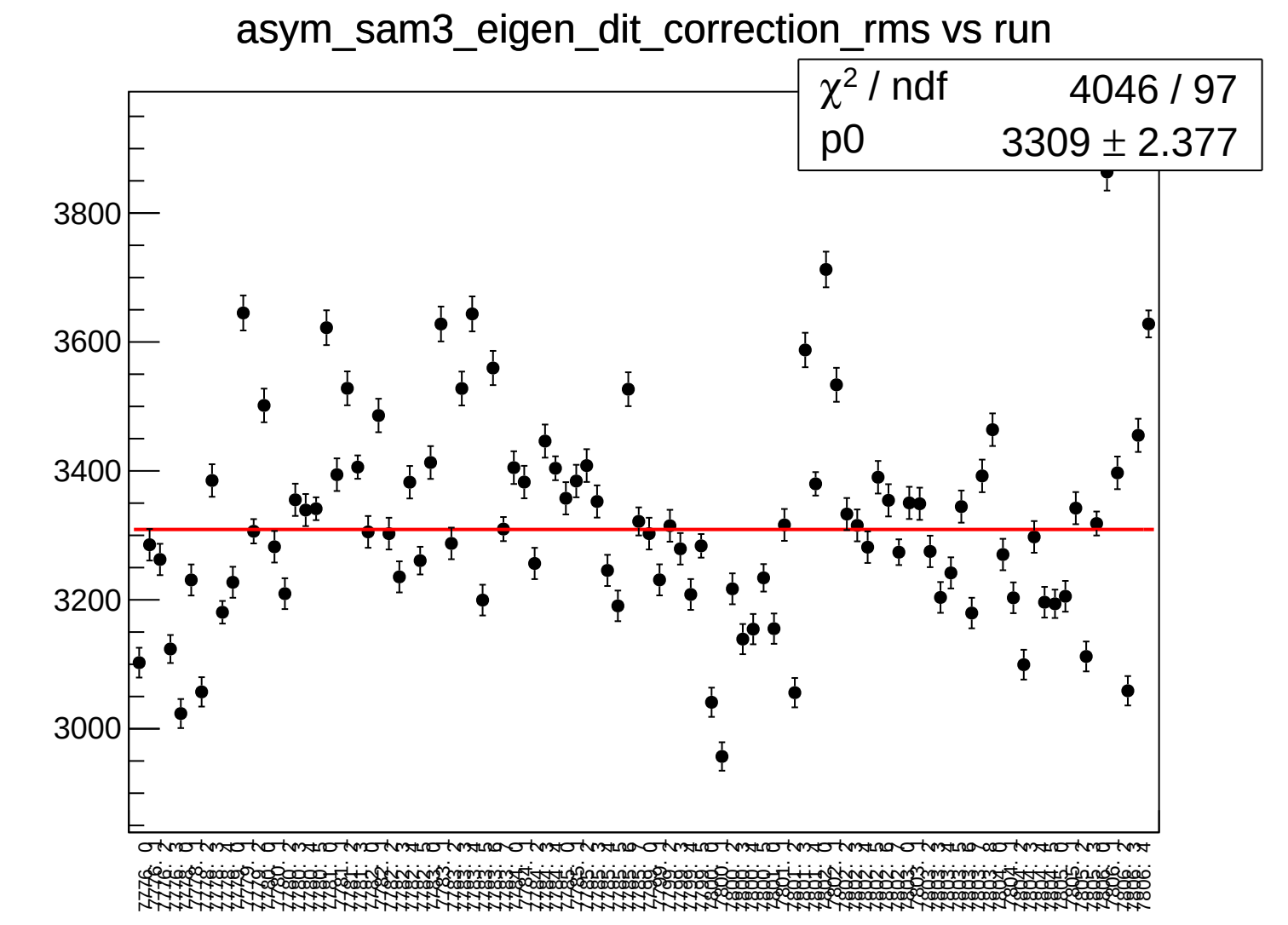

eigen_dit_asym_sam3_mean vs run
χ² / ndf 99.63 / 97
p0 −119.3 ± 400.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 158.2
Std Dev 0
2
1
0
−1
−2
−3

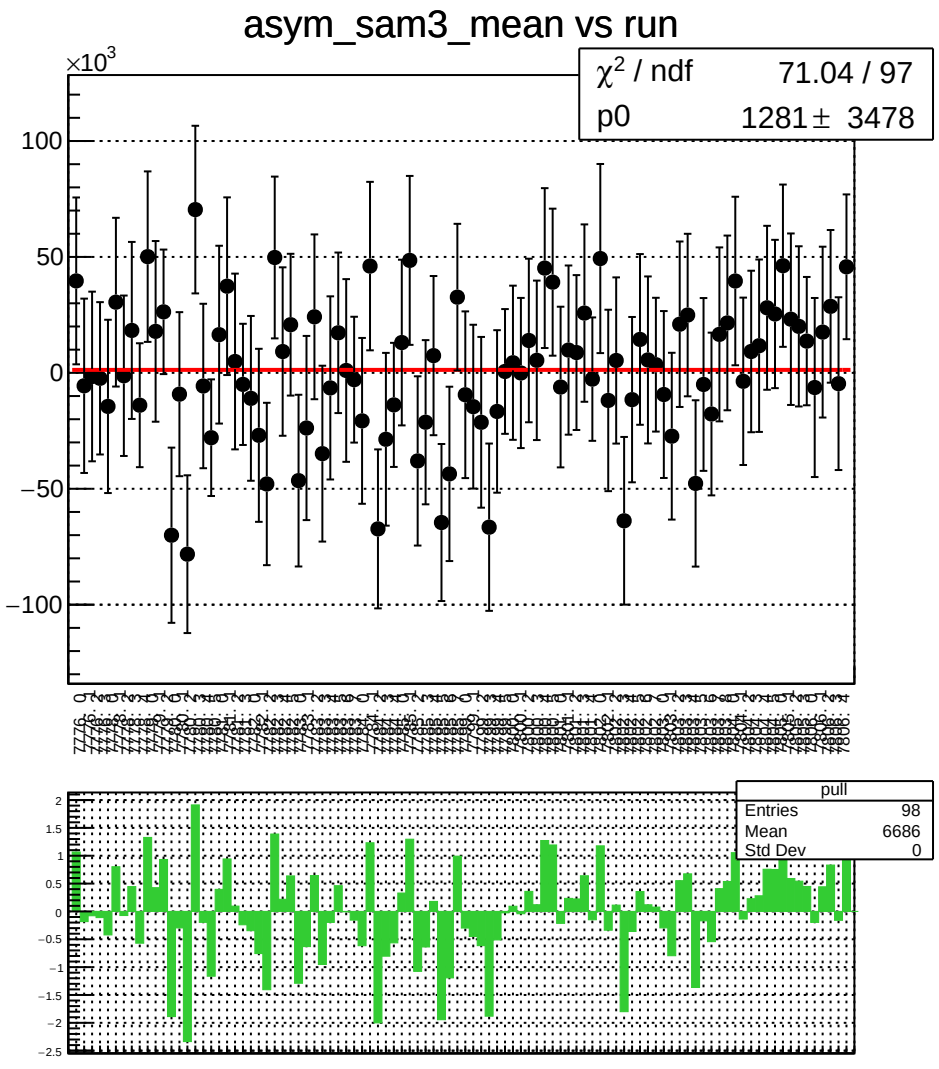

pull1D
Entries 98
Mean 0.02599
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

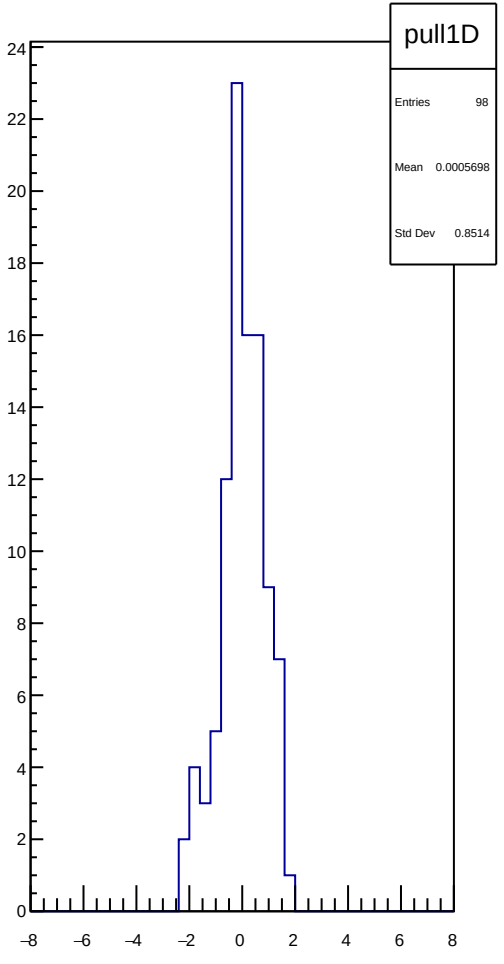

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.469e+04 / 97
p0 393.5 ± 0.2834
650
600
550
500
450
400
350
300

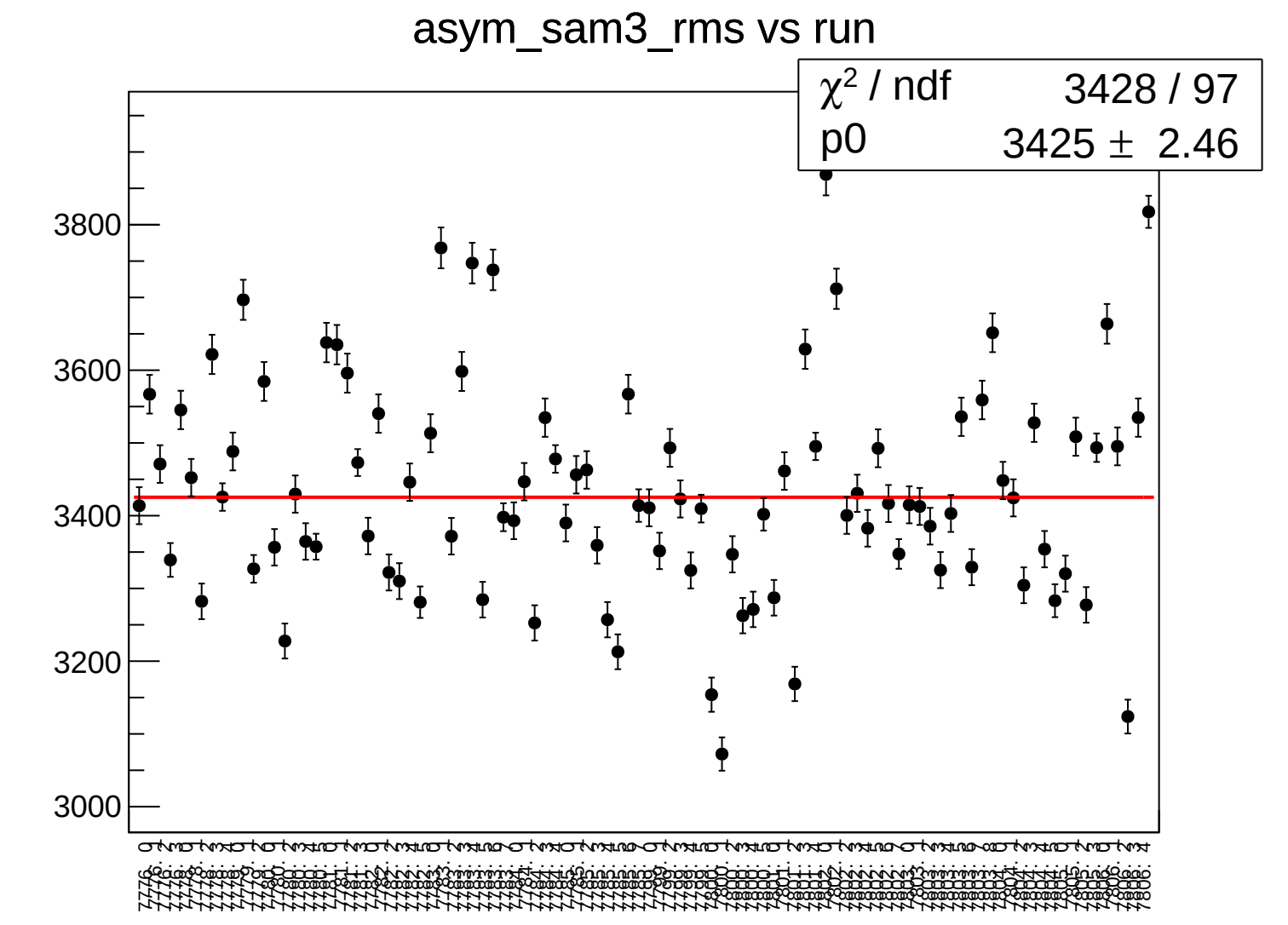

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 70.34 / 97
p0 −1569 ± 3361
100
50
0
−50
−100
pull
Entries 98
Mean −673.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

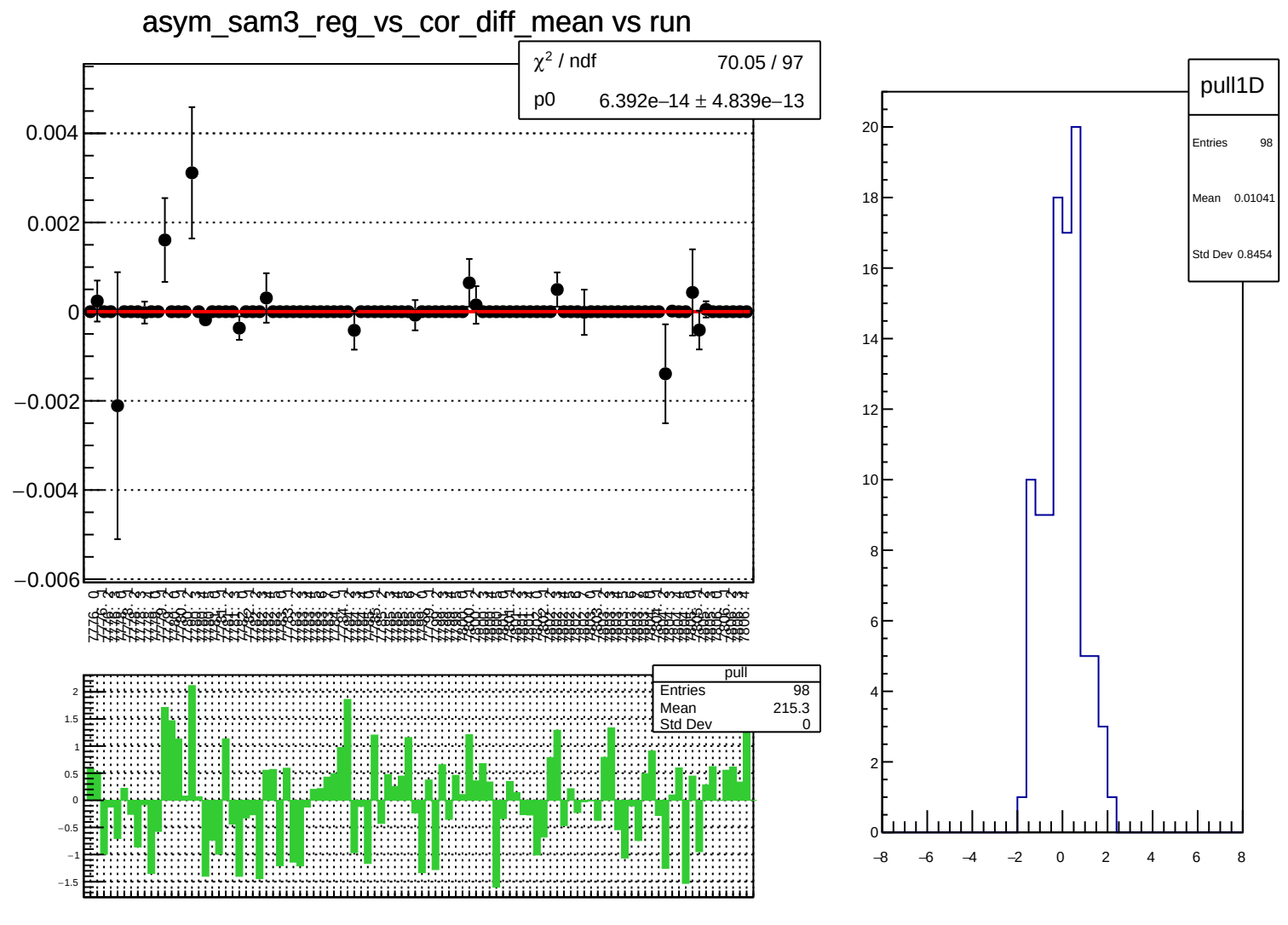

pull1D
Entries 98
Mean 0.00497
Std Dev 0.8472
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

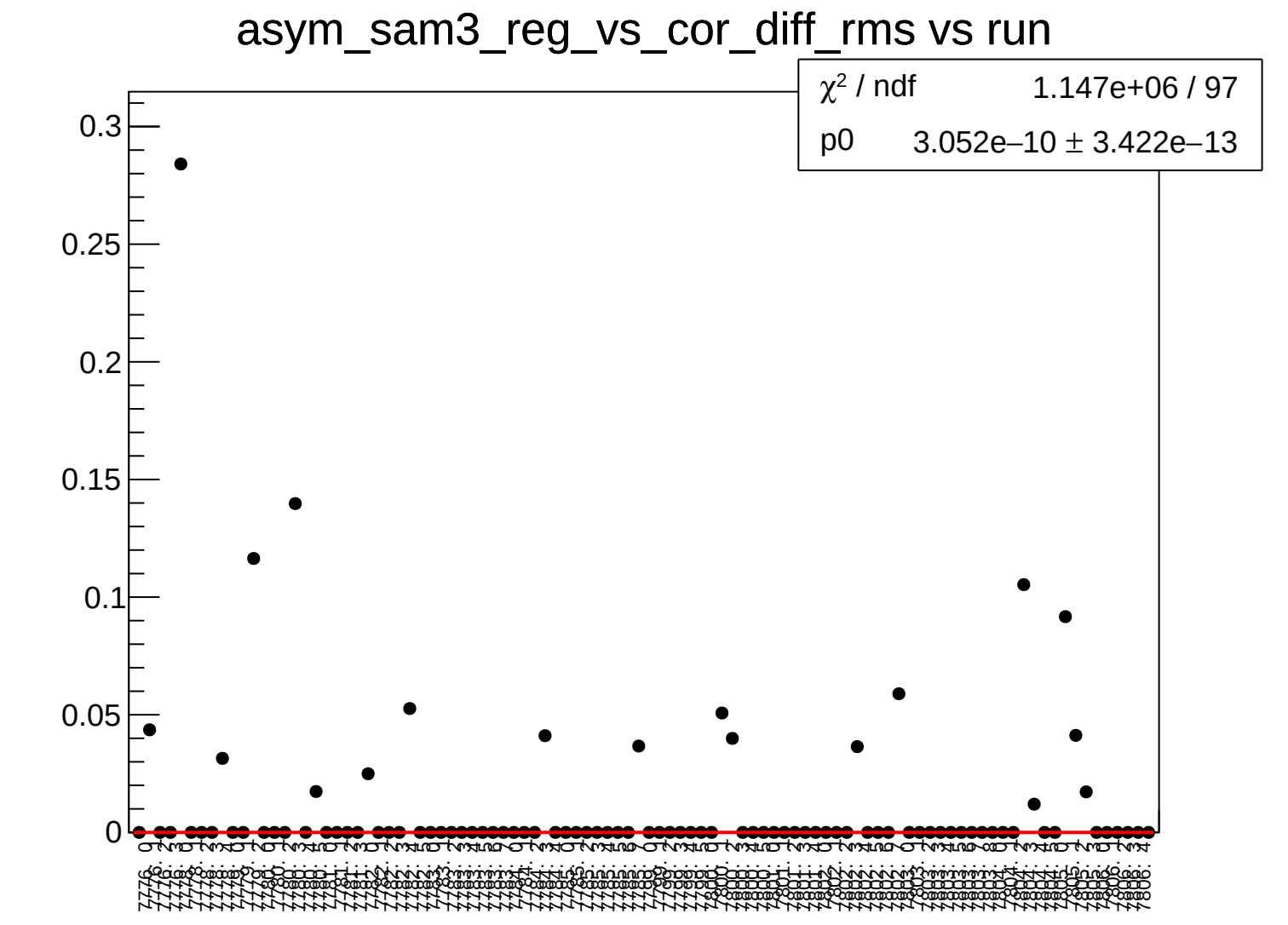

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 4046 / 97
p0 3309 ± 2.377
3800
3600
3400
3200
3000

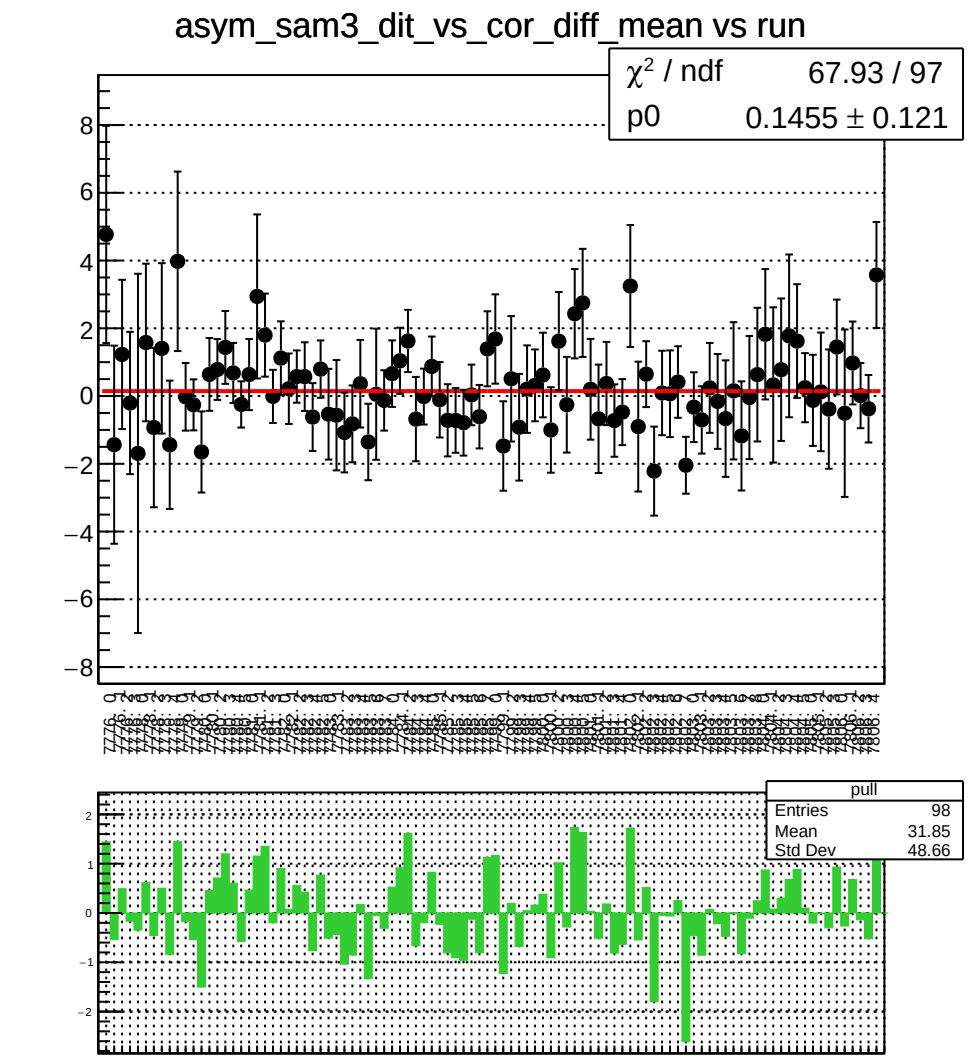

asym_sam3_mean vs run
×10^3
χ² / ndf 71.04 / 97
p0 1281 ± 3478
100
50
0
−50
−100
pull
Entries 98
Mean 6686
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

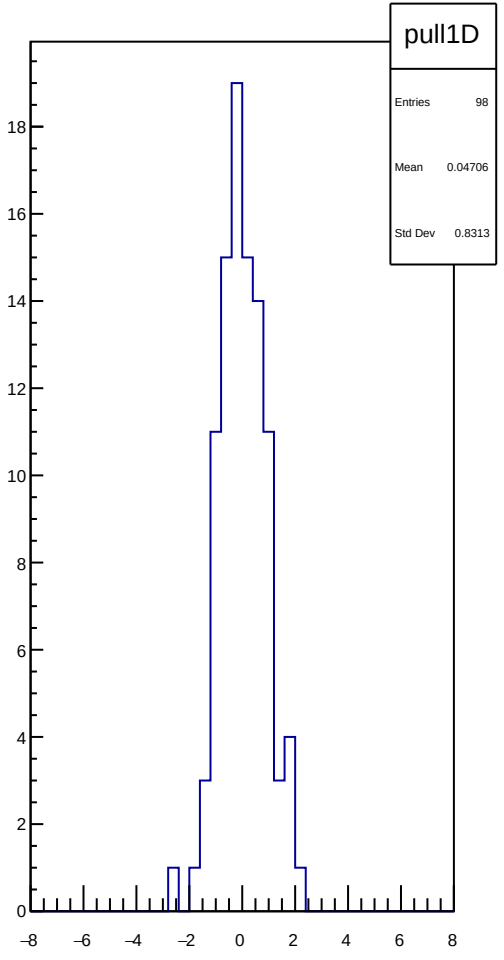

pull1D
Entries 98
Mean 0.0005698
Std Dev 0.8514
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

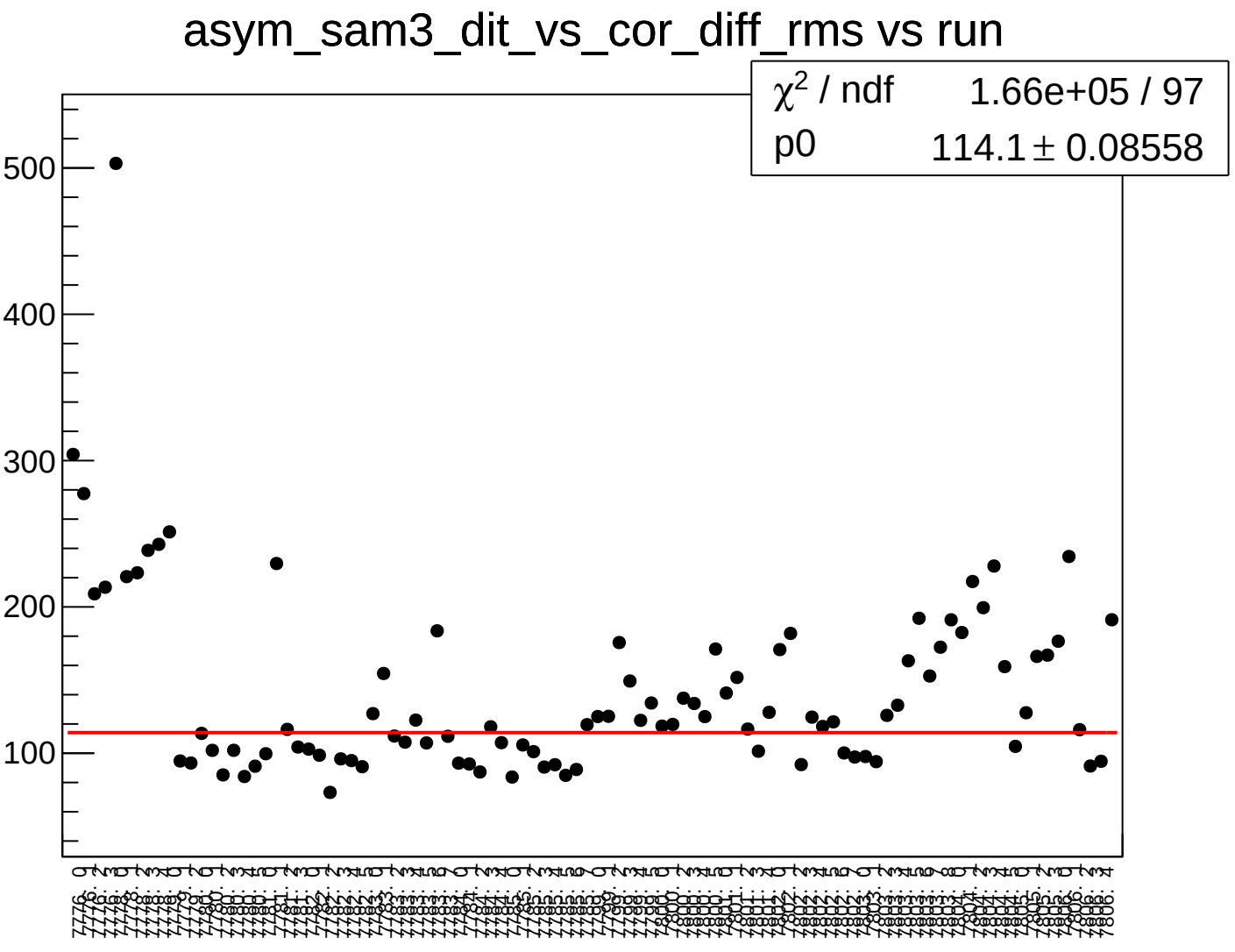

asym_sam3_rms vs run
χ² / ndf 3428 / 97
p0 3425 ± 2.46
3800
3600
3400
3200
3000

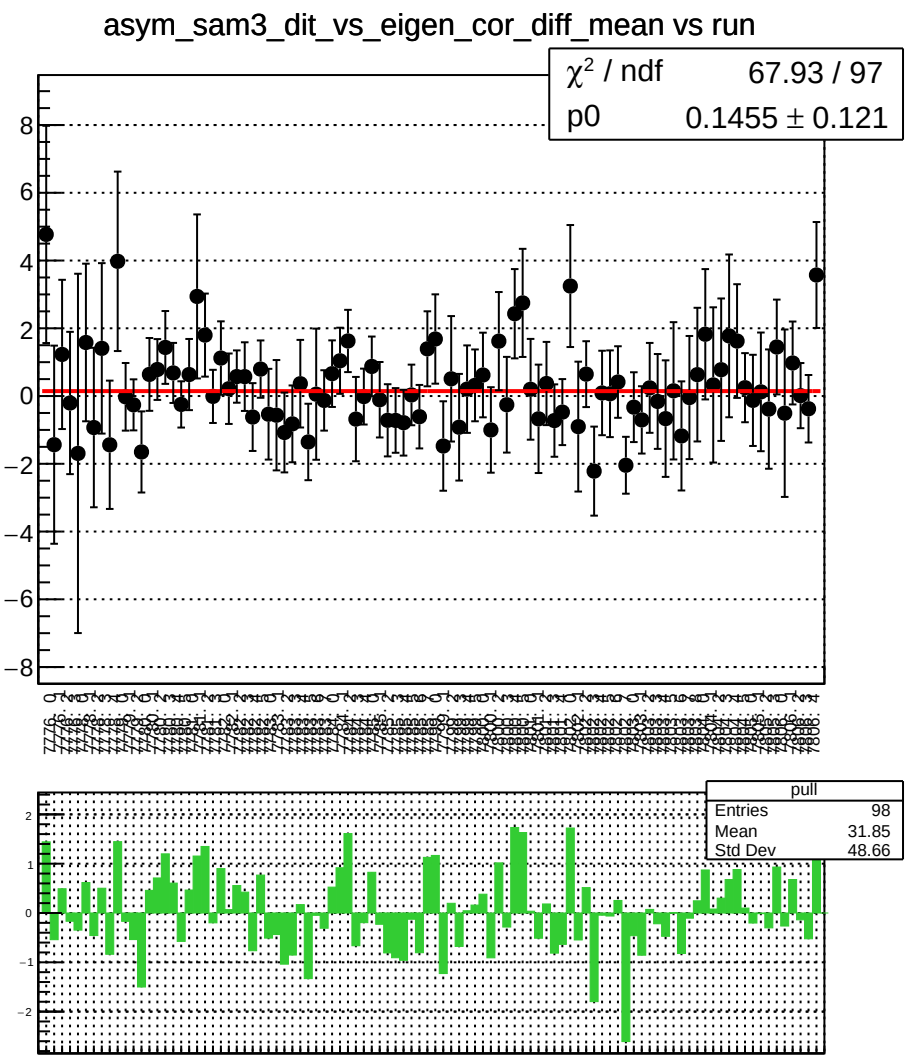

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 70.05 / 97
p0 6.392e−14 ± 4.839e−13
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 98
Mean 215.3
Std Dev 0
pull1D
Entries 98
Mean 0.01041
Std Dev 0.8454

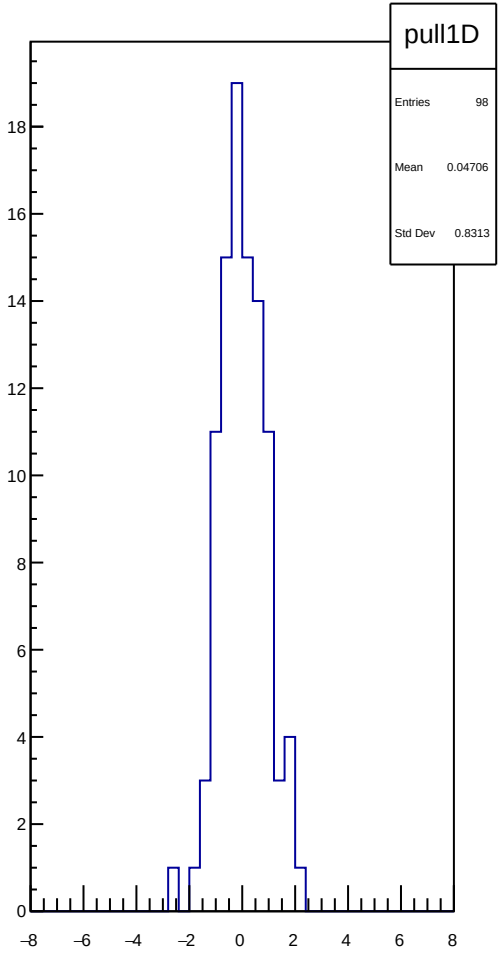

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.147e+06 / 97
p0 3.052e−10 ± 3.422e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

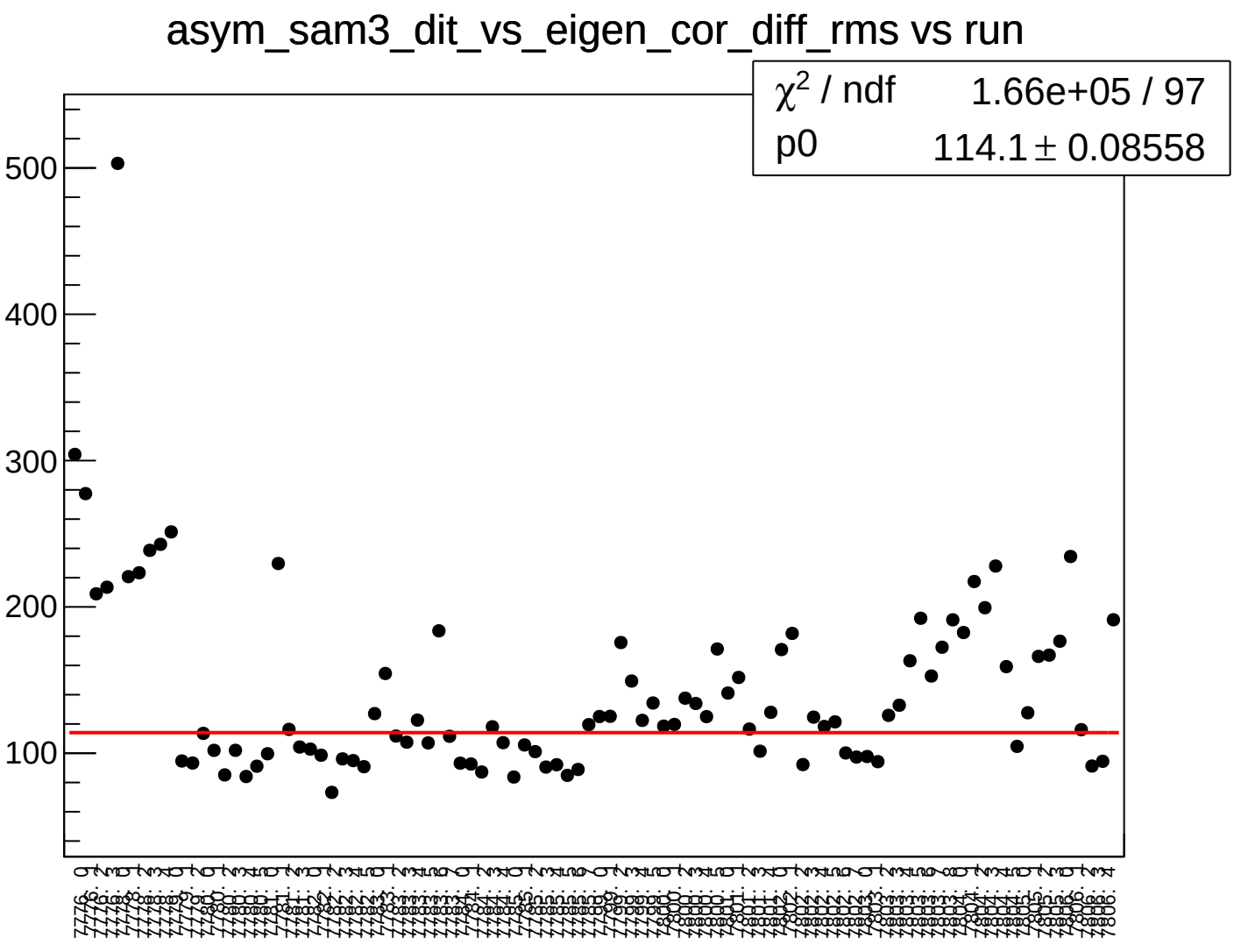

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 67.93 / 97
p0 0.1455 ± 0.121
pull
Entries 98
Mean 31.85
Std Dev 48.66

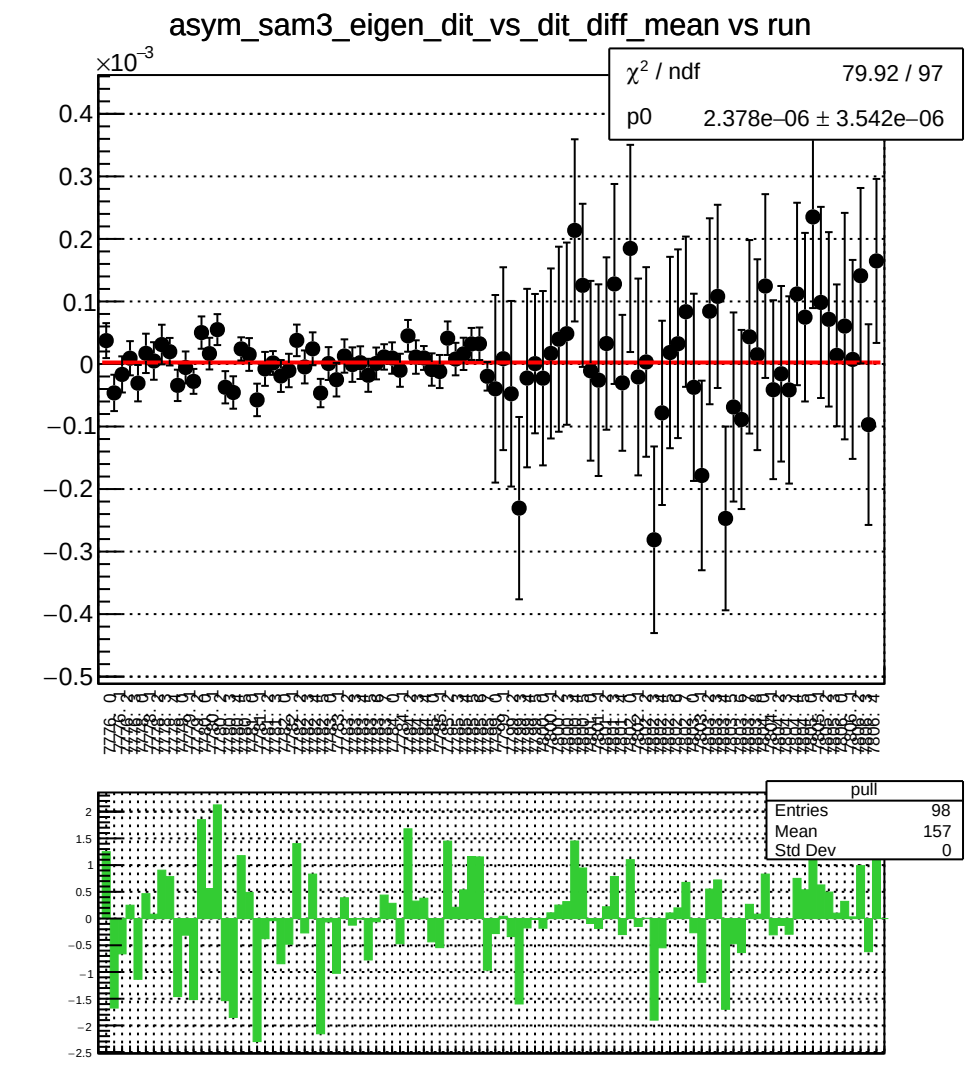

pull1D
Entries 98
Mean 0.04706
Std Dev 0.8313

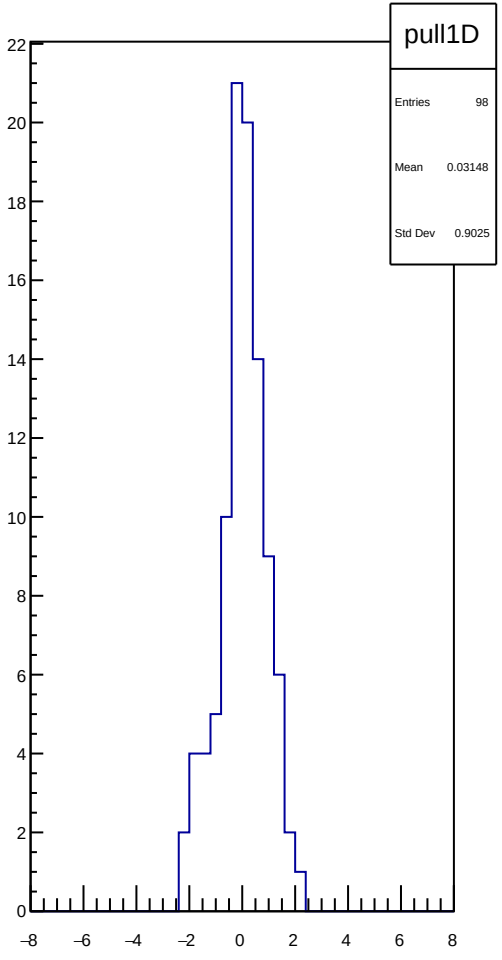

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 97
p0 114.1 ± 0.08558
500
400
300
200
100

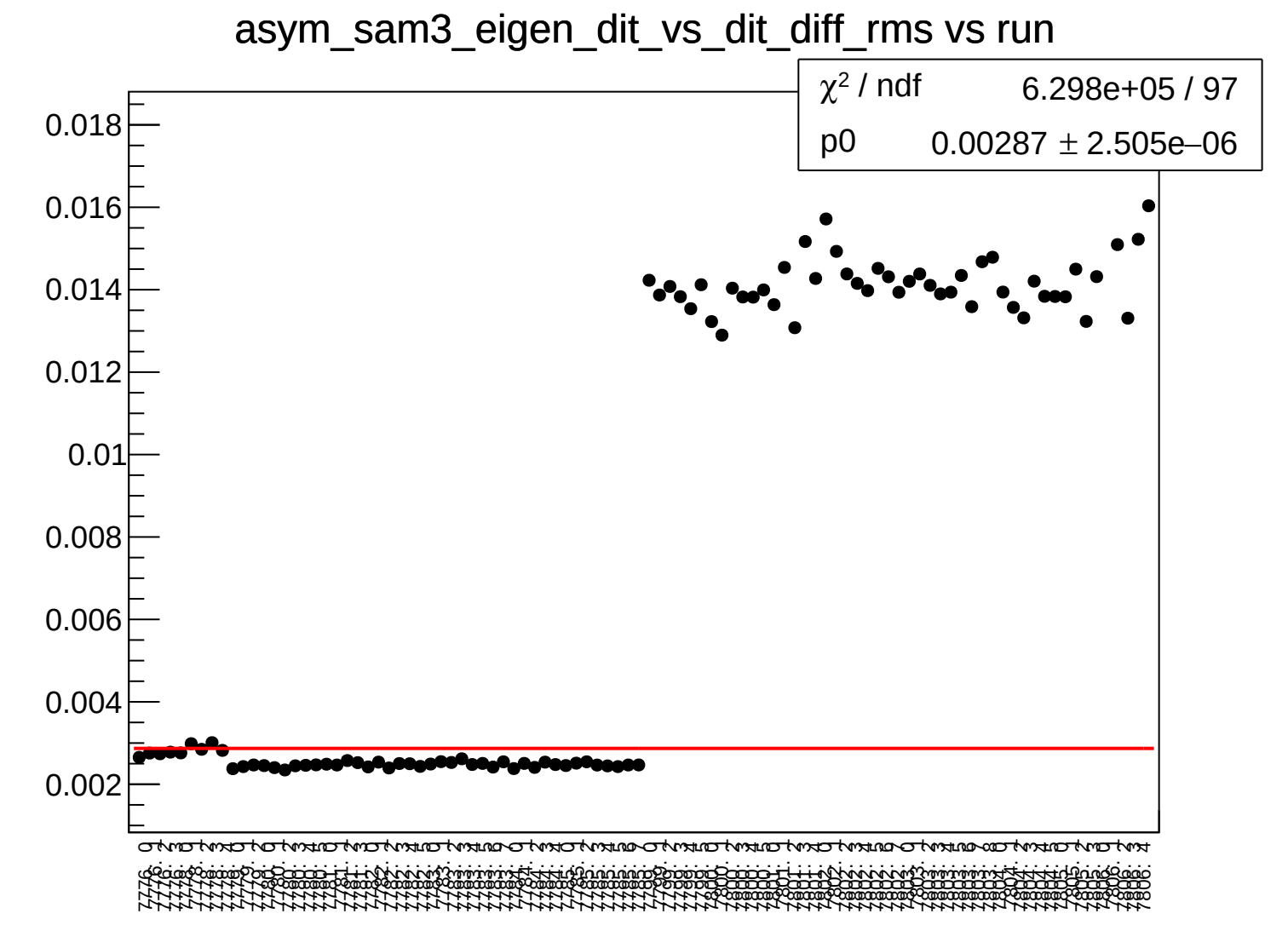

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.93 / 97
p0 0.1455 ± 0.121
pull
Entries 98
Mean 31.85
Std Dev 48.66

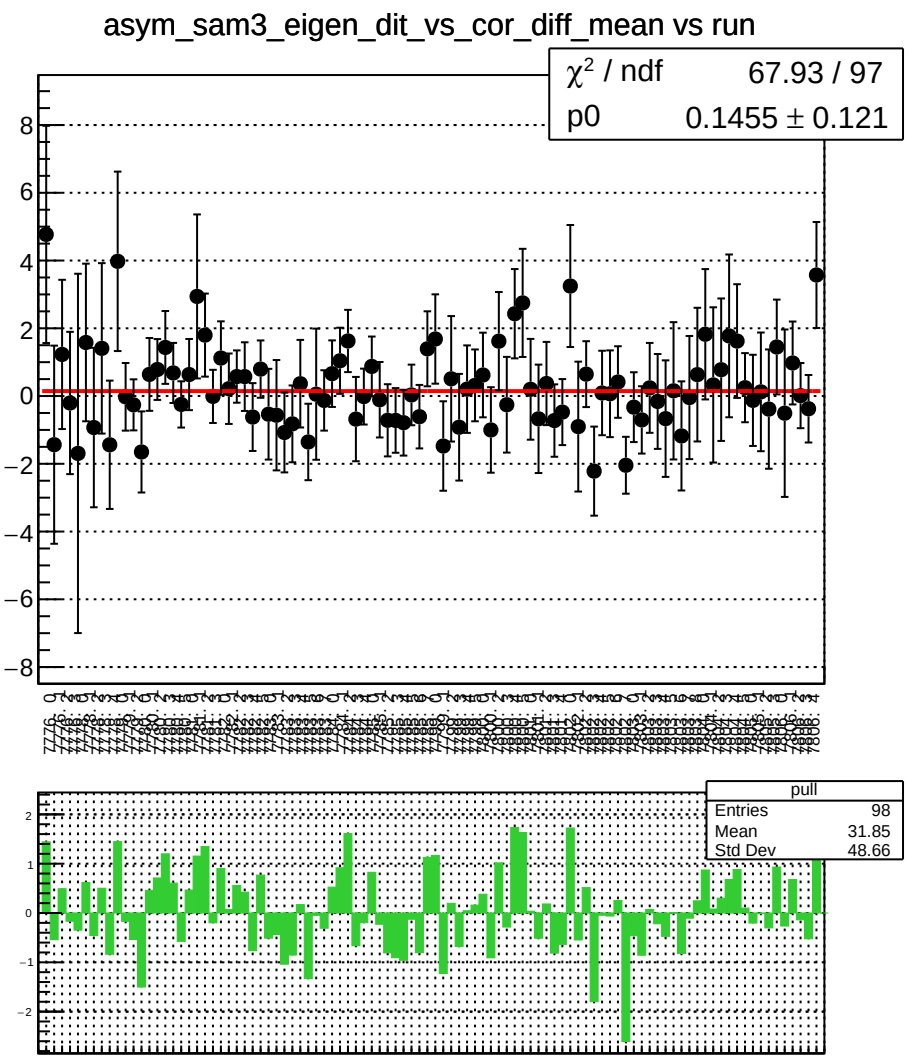

pull1D
Entries 98
Mean 0.04706
Std Dev 0.8313

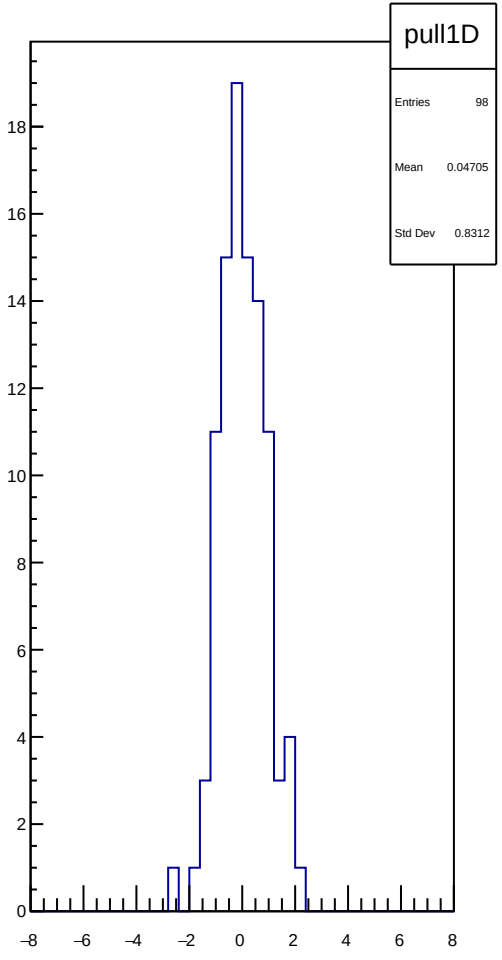

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 97
p0 114.1 ± 0.08558
500
400
300
200
100

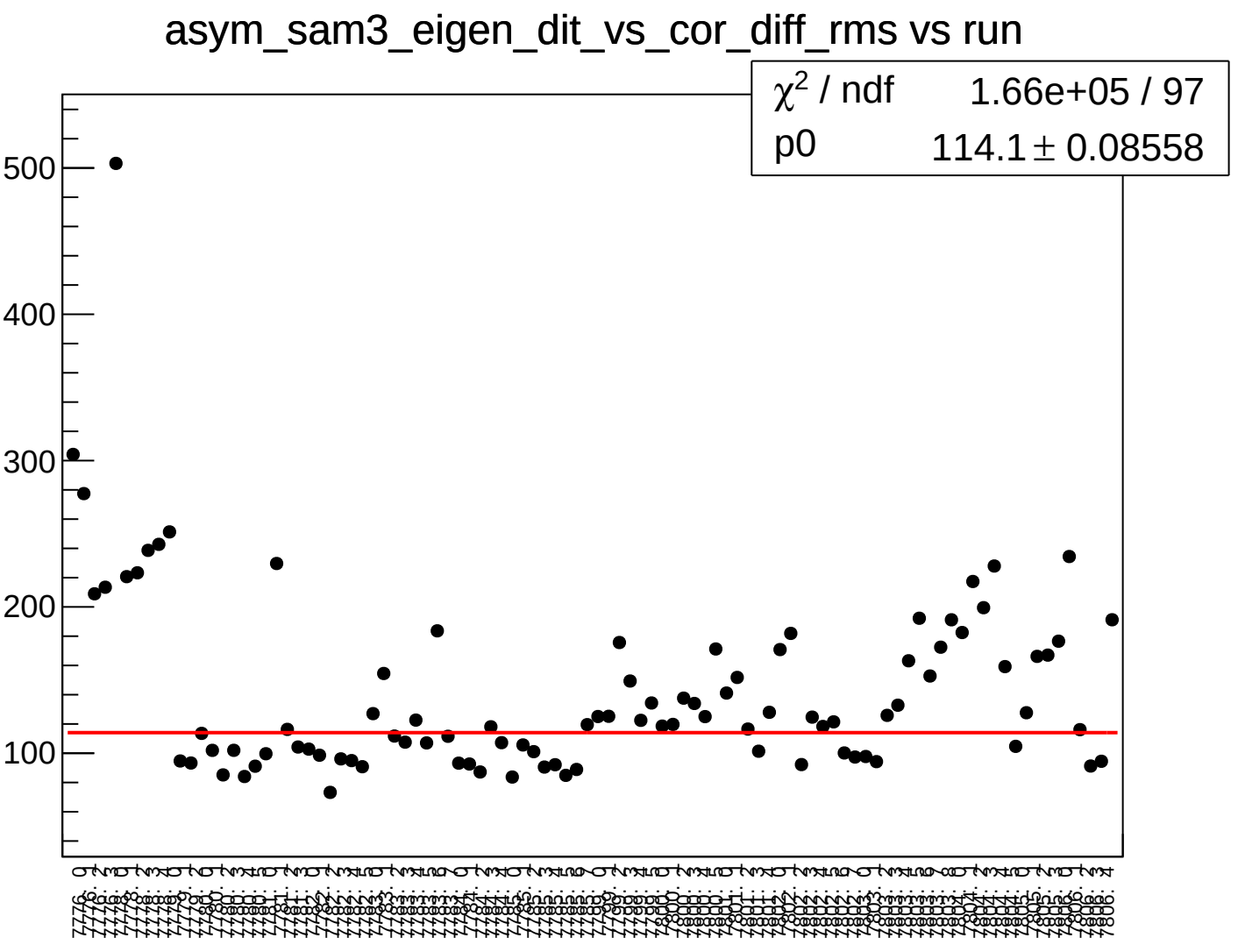

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.92 / 97
p0 2.378e−06 ± 3.542e−06
pull
Entries 98
Mean 157
Std Dev 0

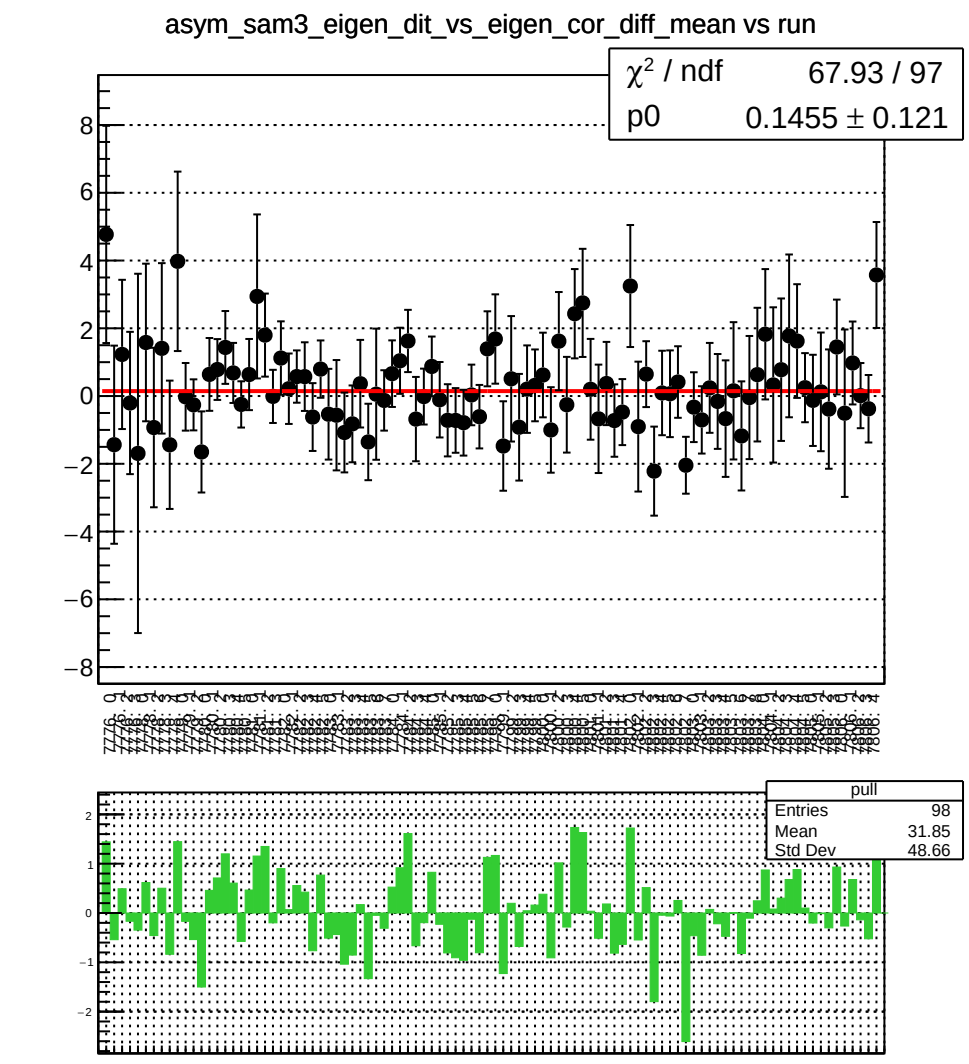

pull1D
Entries 98
Mean 0.03148
Std Dev 0.9025

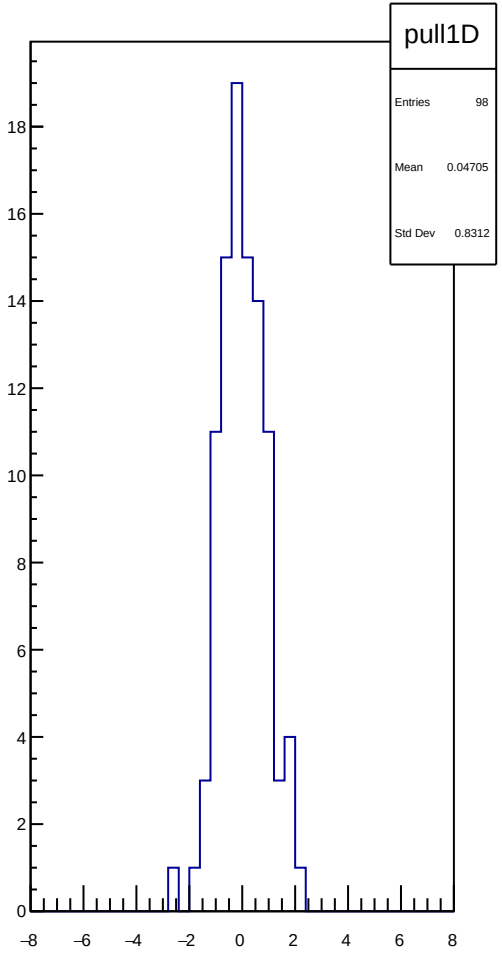

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.298e+05 / 97
p0 0.00287 ± 2.505e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

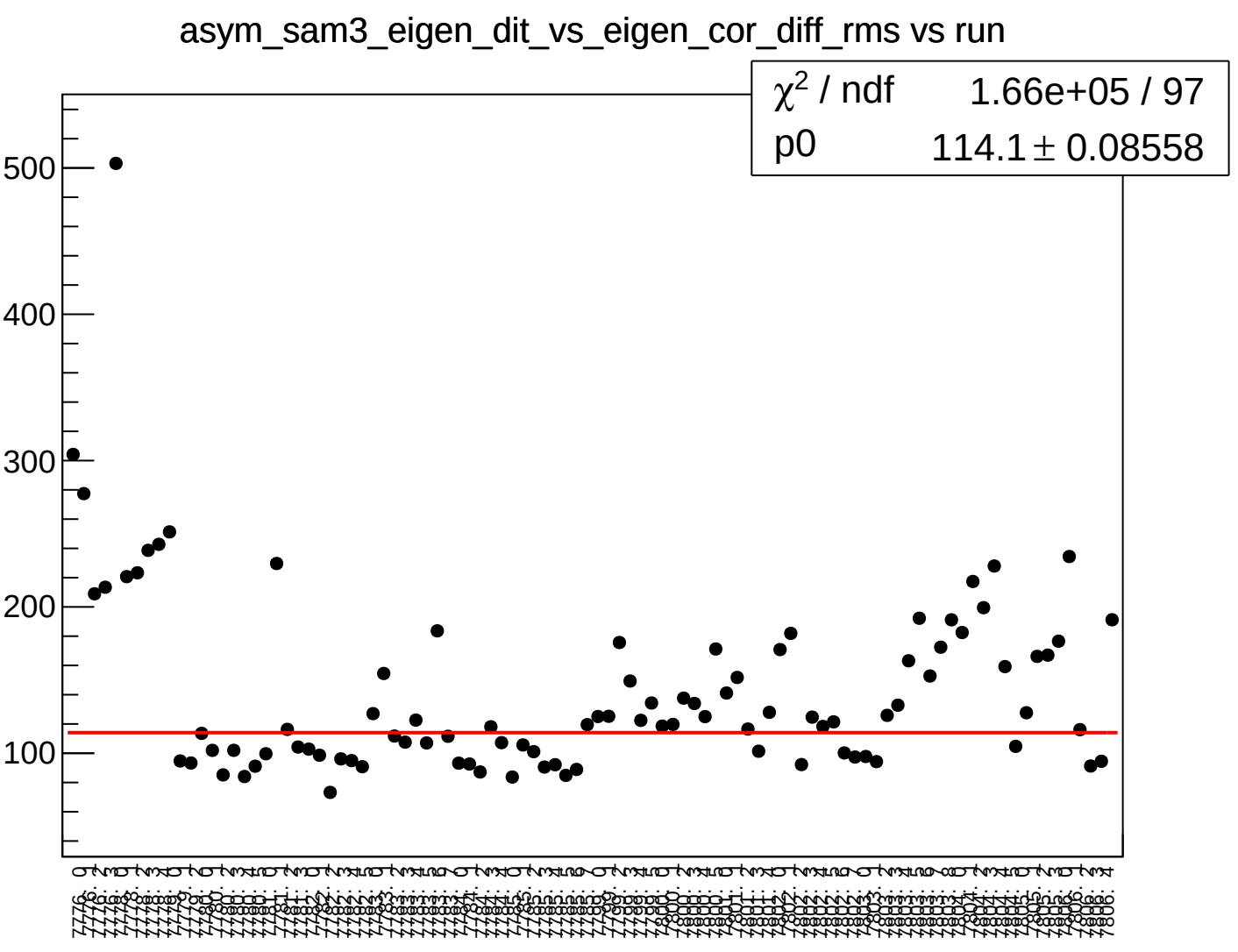

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.93 / 97
p0 0.1455 ± 0.121
pull
Entries 98
Mean 31.85
Std Dev 48.66

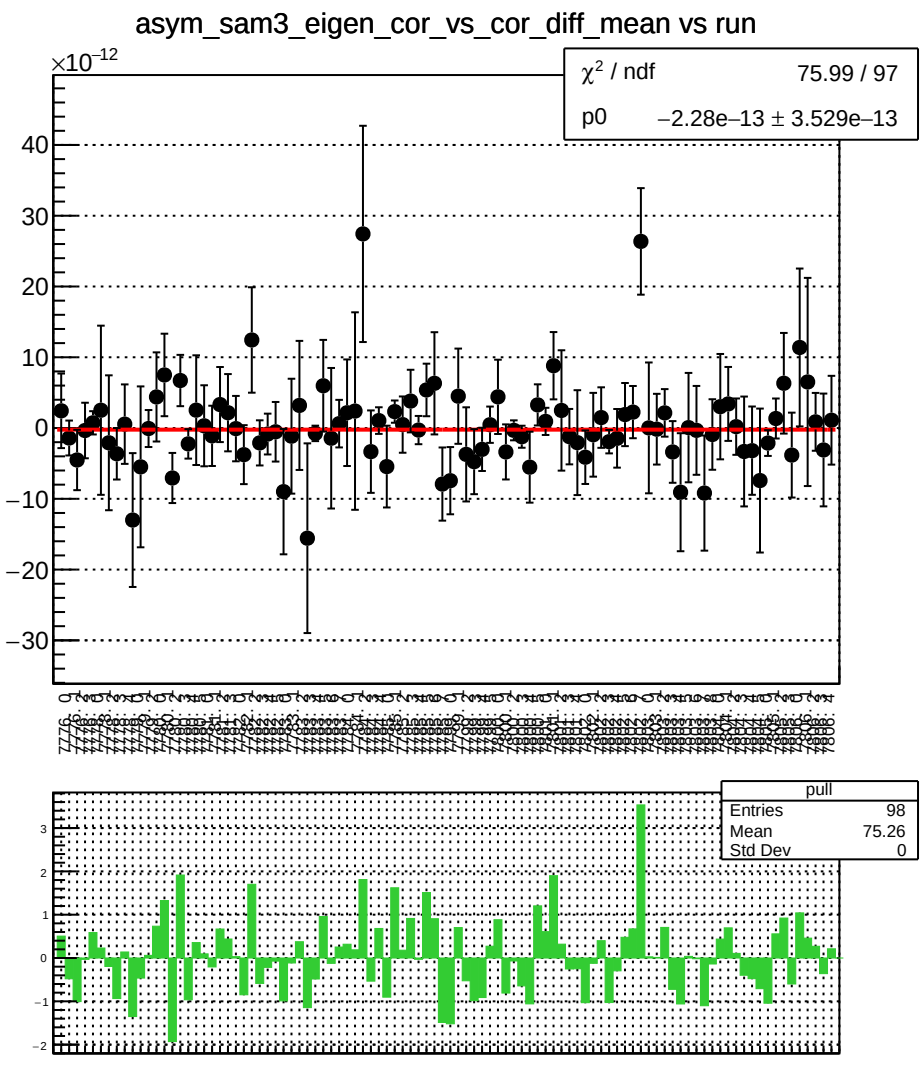

pull1D
Entries 98
Mean 0.04705
Std Dev 0.8312

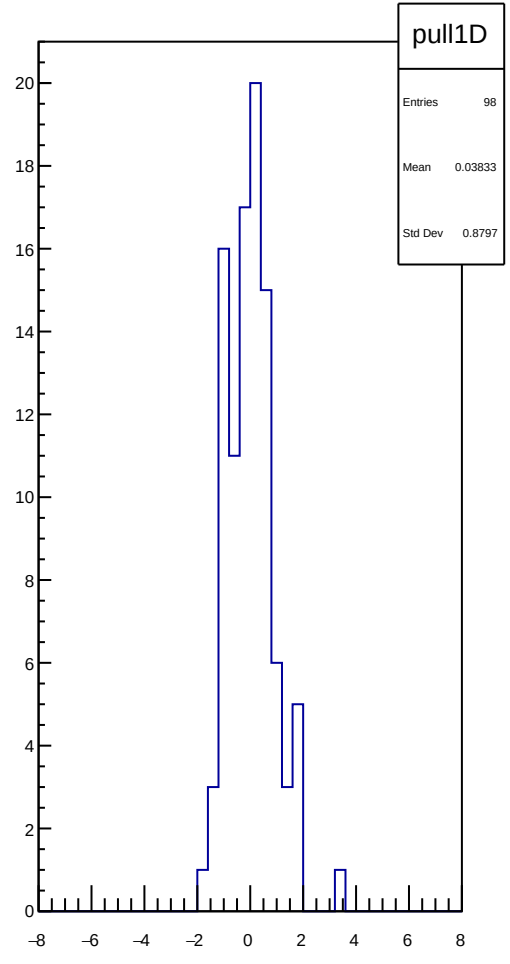

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 97
p0 114.1 ± 0.08558
500
400
300
200
100

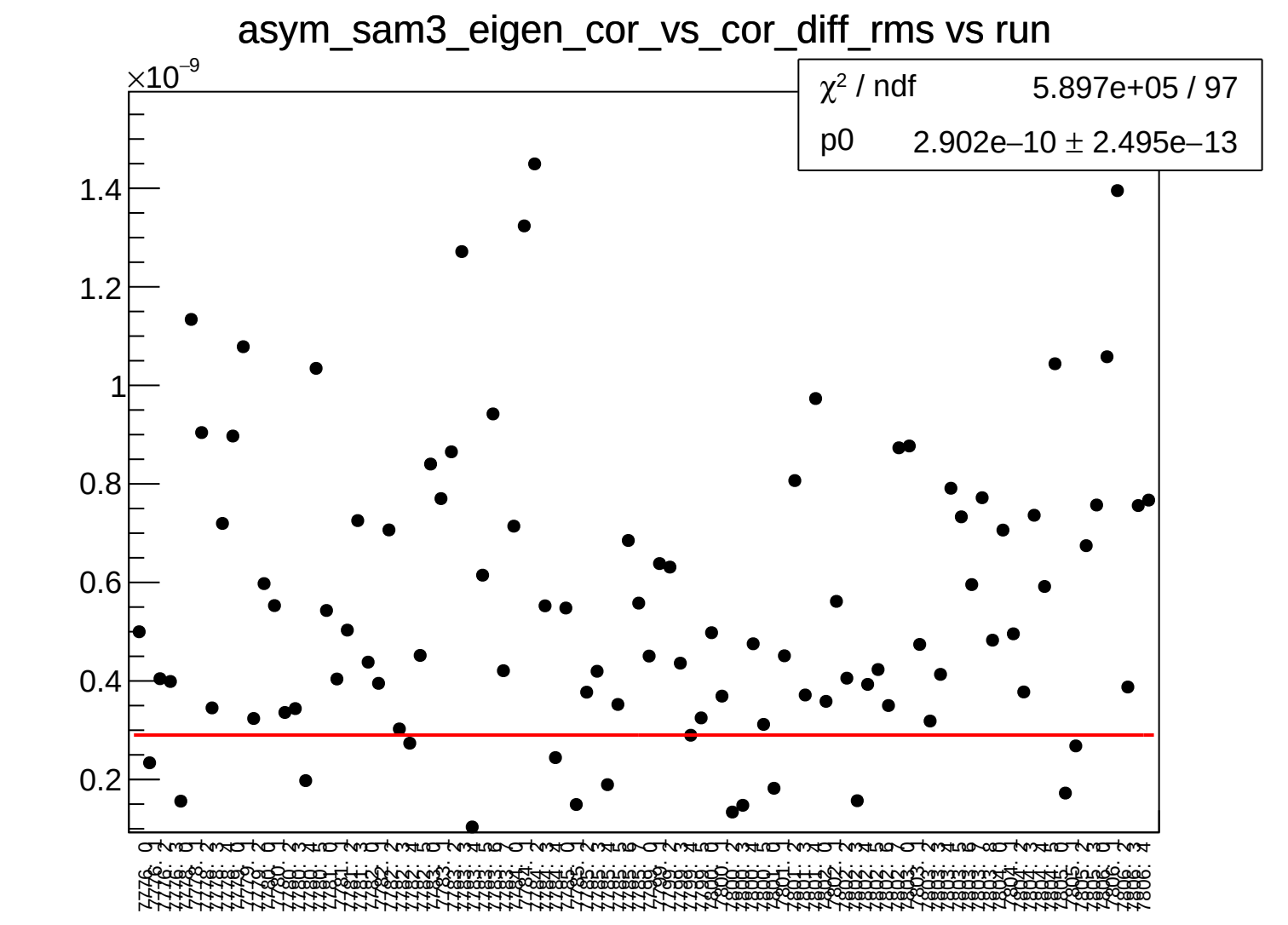

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.93 / 97
p0 0.1455 ± 0.121
pull
Entries 98
Mean 31.85
Std Dev 48.66

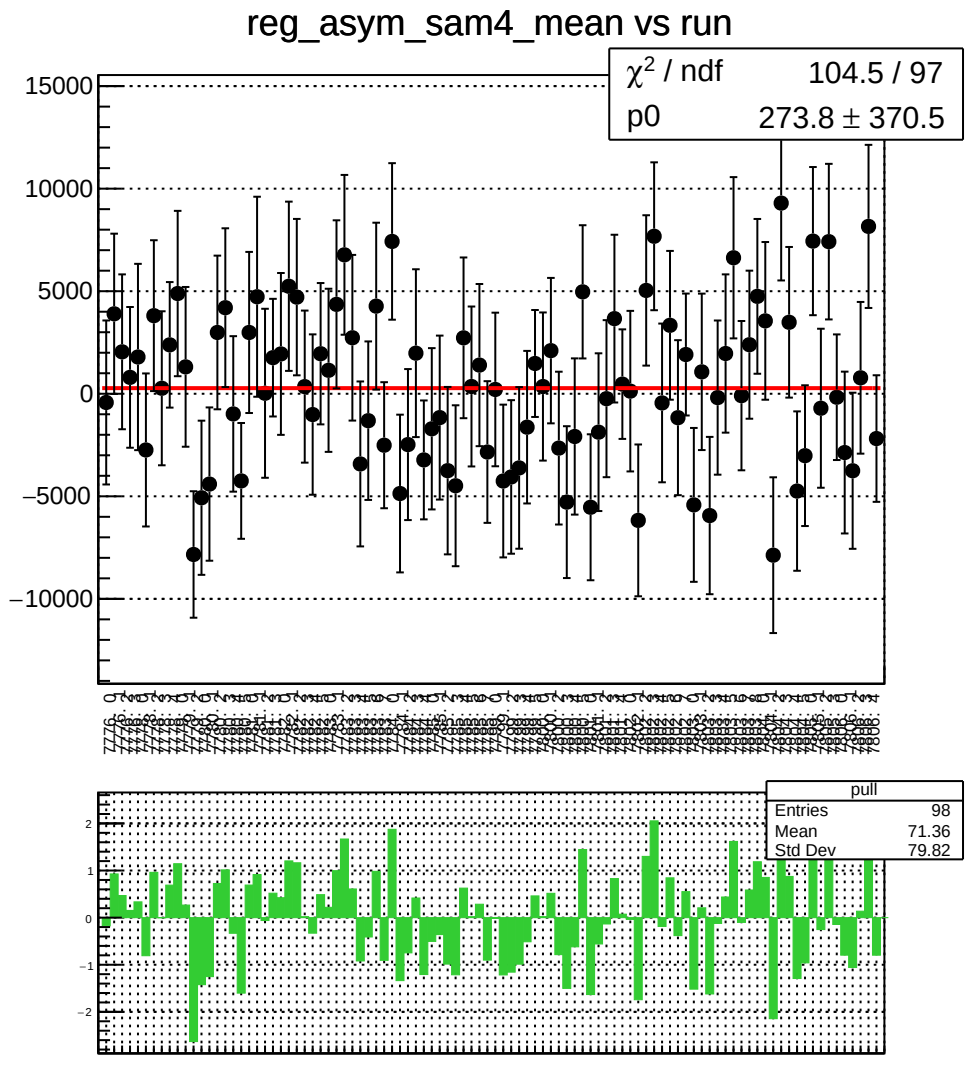

pull1D
Entries 98
Mean 0.04705
Std Dev 0.8312

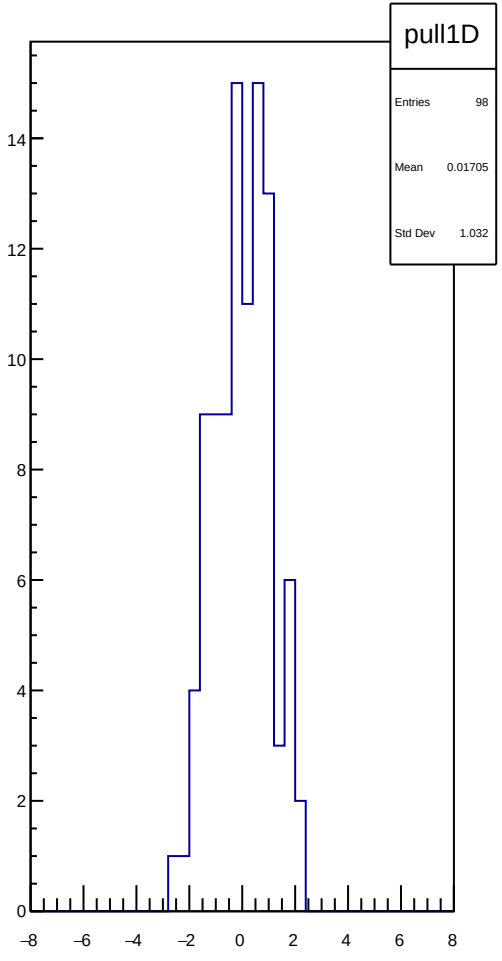

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 97
p0 114.1 ± 0.08558
500
400
300
200
100

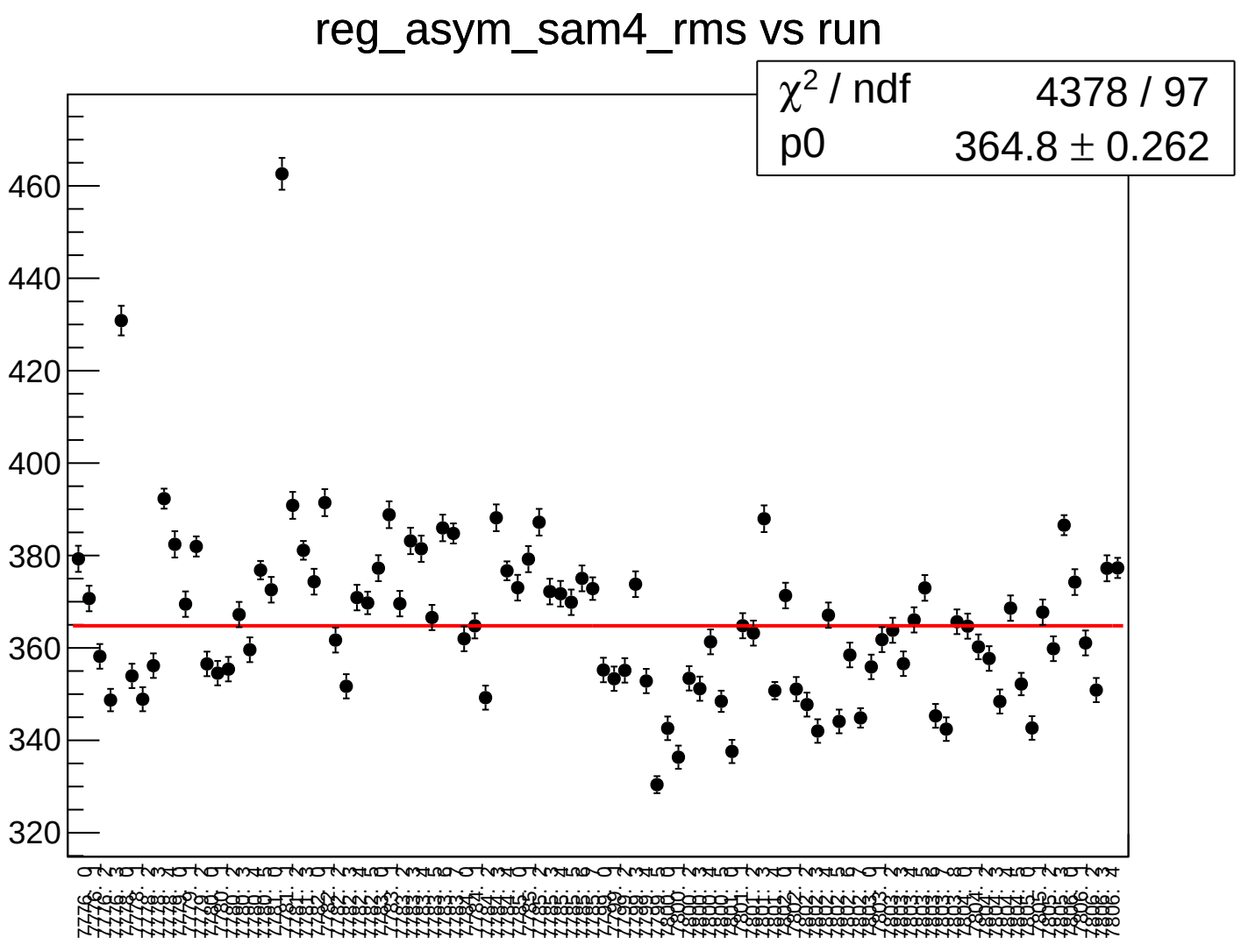

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.99 / 97
p0 −2.28e−13 ± 3.529e−13
40
30
20
10
0
−10
−20
−30
pull
Entries 98
Mean 75.26
Std Dev 0
3
2
1
0
−1
−2

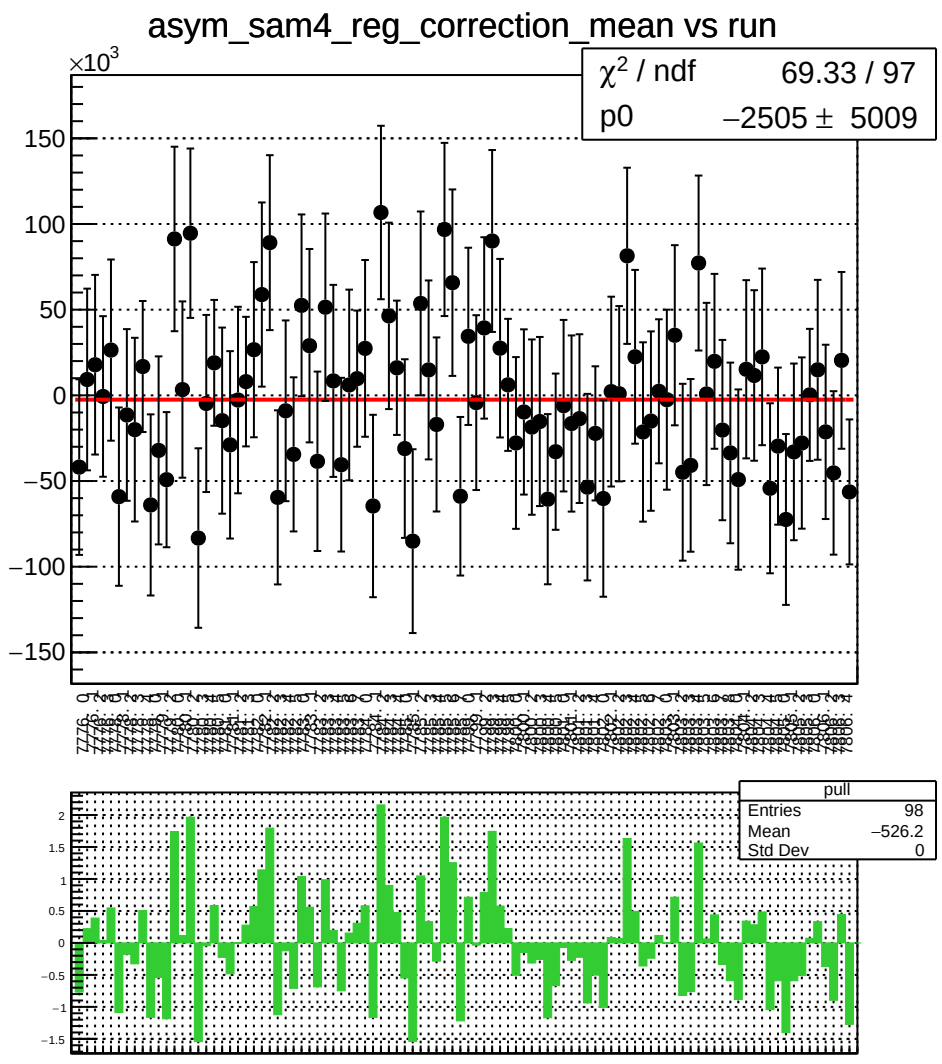

pull1D
Entries 98
Mean 0.03833
Std Dev 0.8797
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

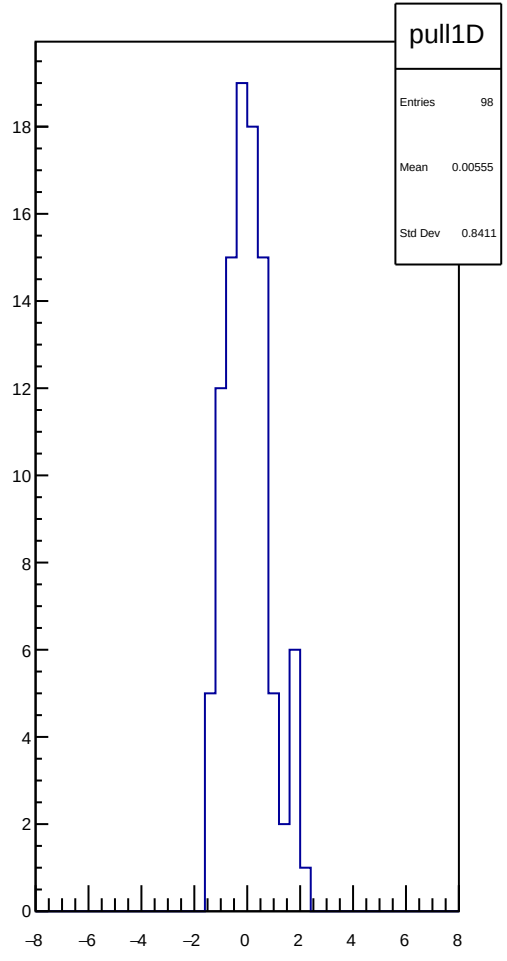

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.897e+05 / 97
p0 2.902e−10 ± 2.495e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

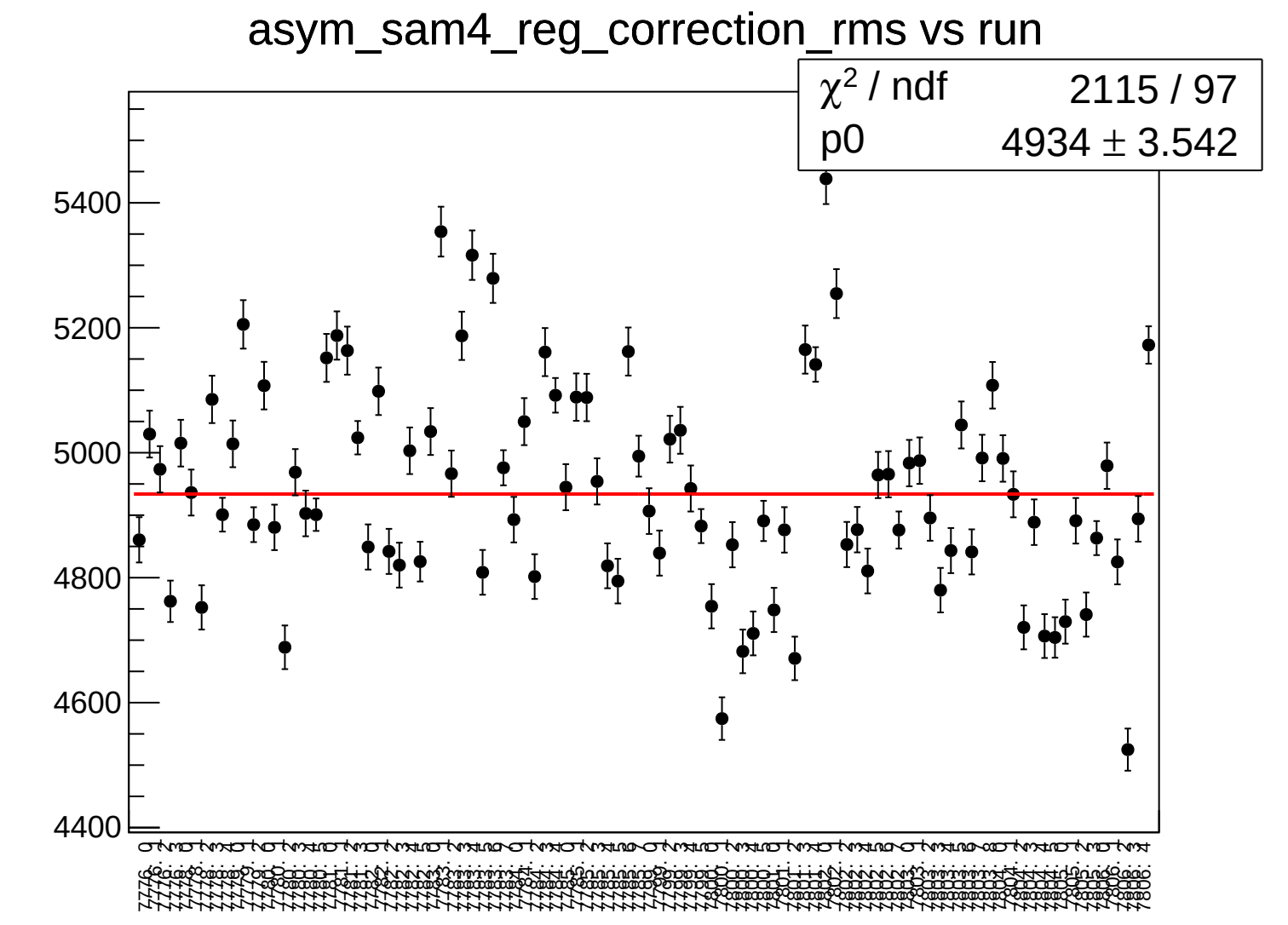

reg_asym_sam4_mean vs run
χ² / ndf 104.5 / 97
p0 273.8 ± 370.5
15000
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 71.36
Std Dev 79.82
2
1
0
−1
−2

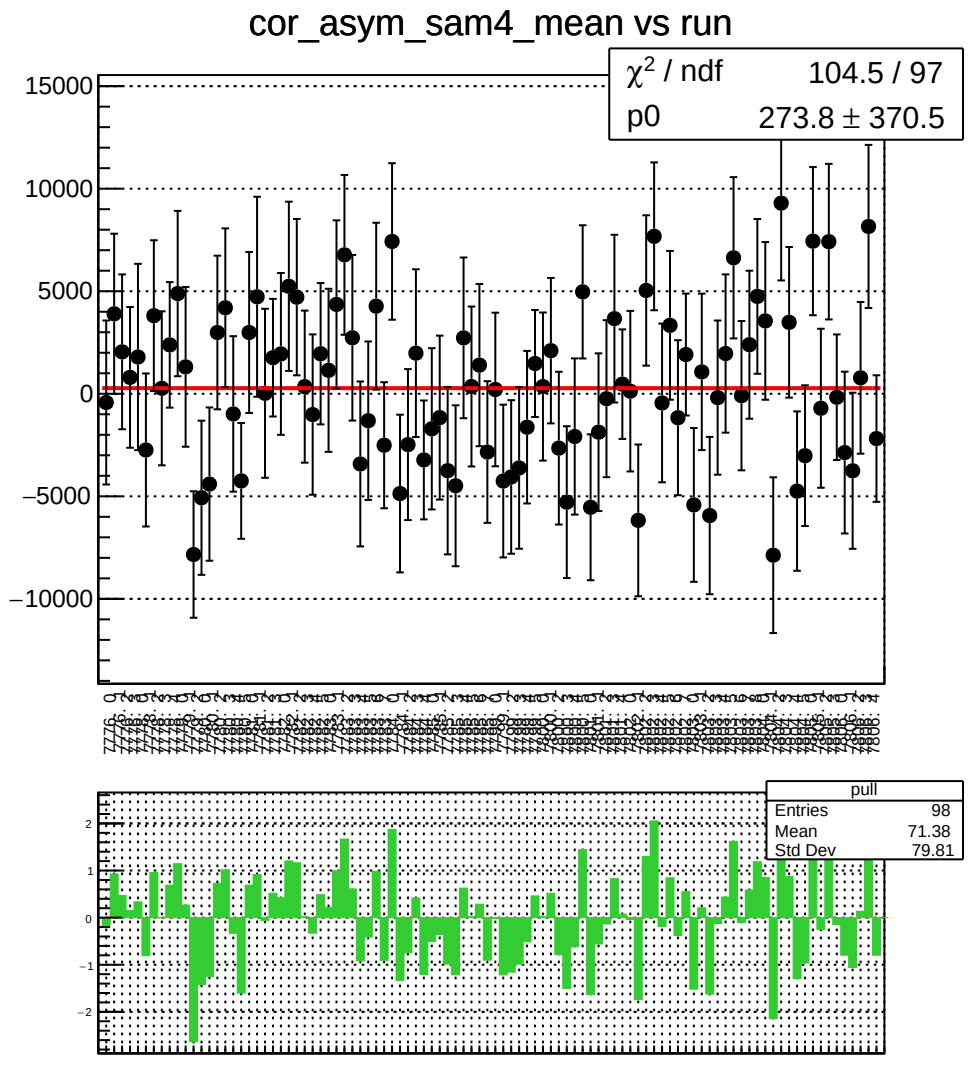

pull1D
Entries 98
Mean 0.01705
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

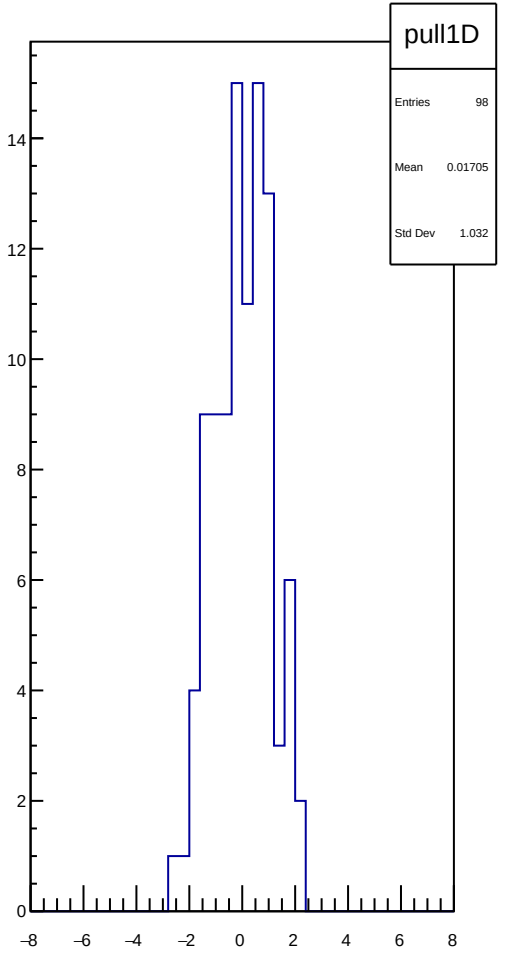

reg_asym_sam4_rms vs run
χ^2 / ndf 4378 / 97
p0 364.8 ± 0.262
460
440
420
400
380
360
340
320

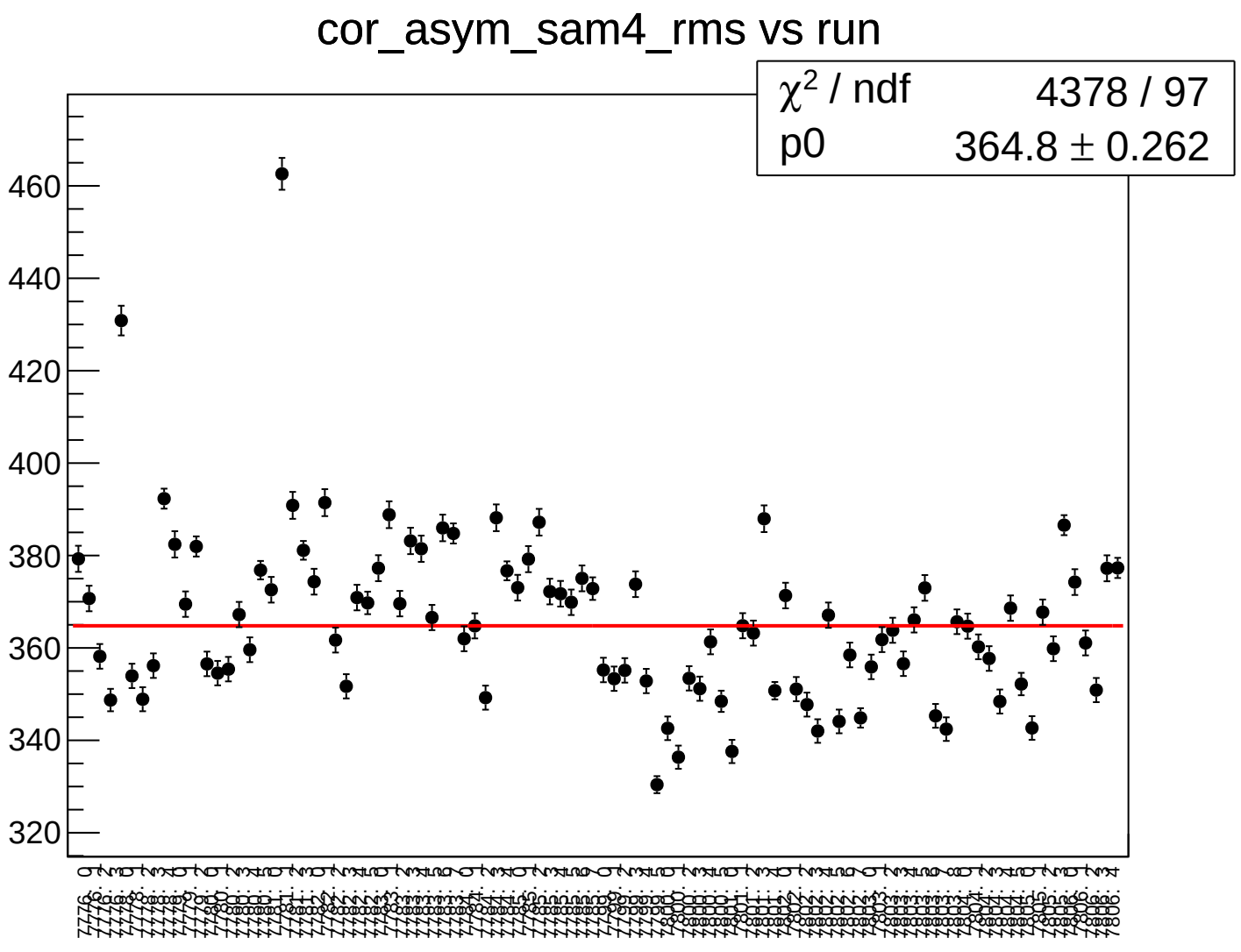

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 69.33 / 97
p0 −2505 ± 5009
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −526.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

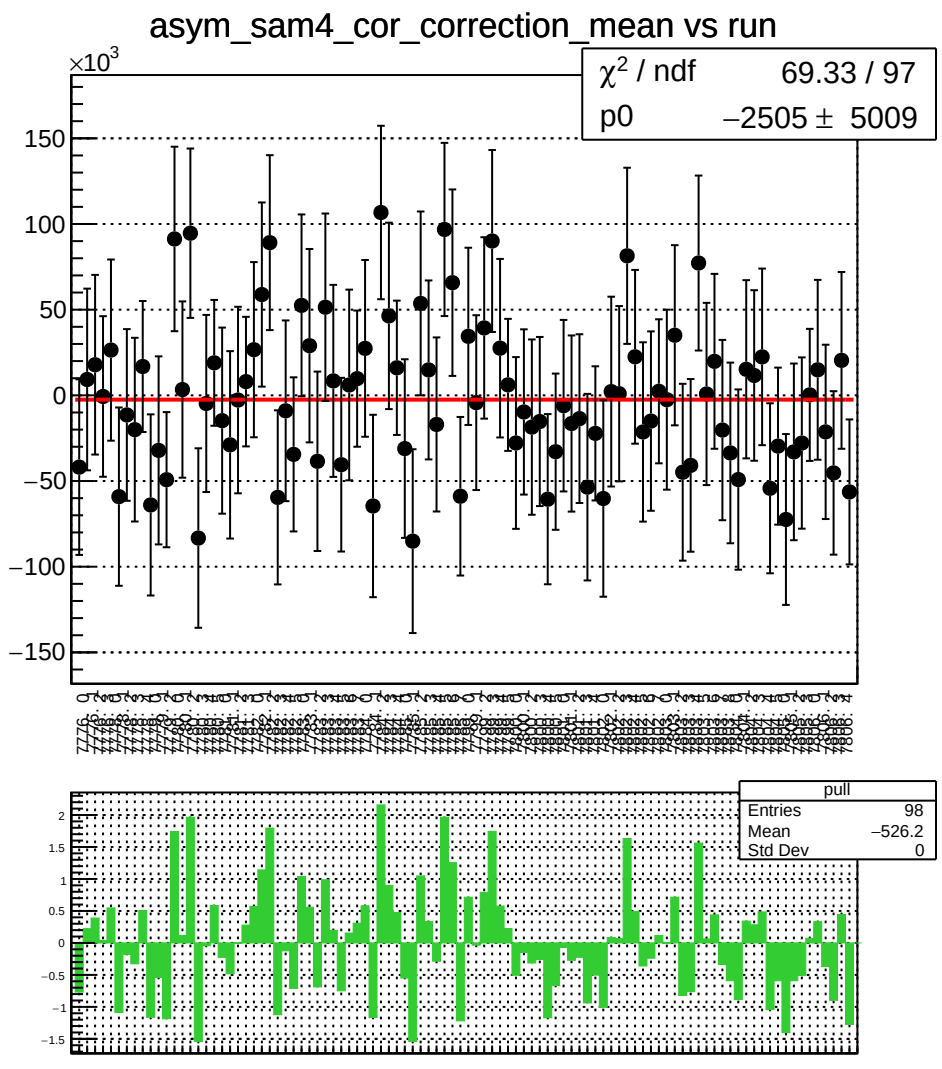

pull1D
Entries 98
Mean 0.00555
Std Dev 0.8411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

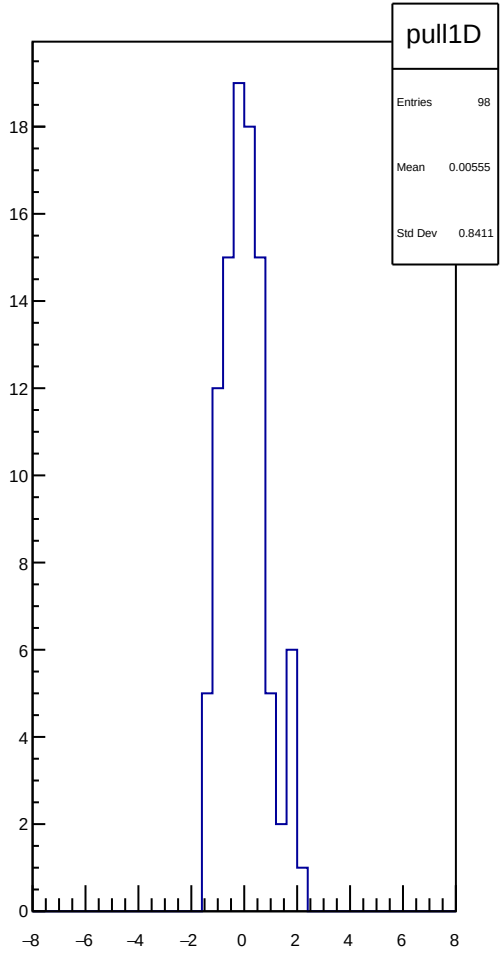

asym_sam4_reg_correction_rms vs run
χ² / ndf 2115 / 97
p0 4934 ± 3.542
5400
5200
5000
4800
4600
4400

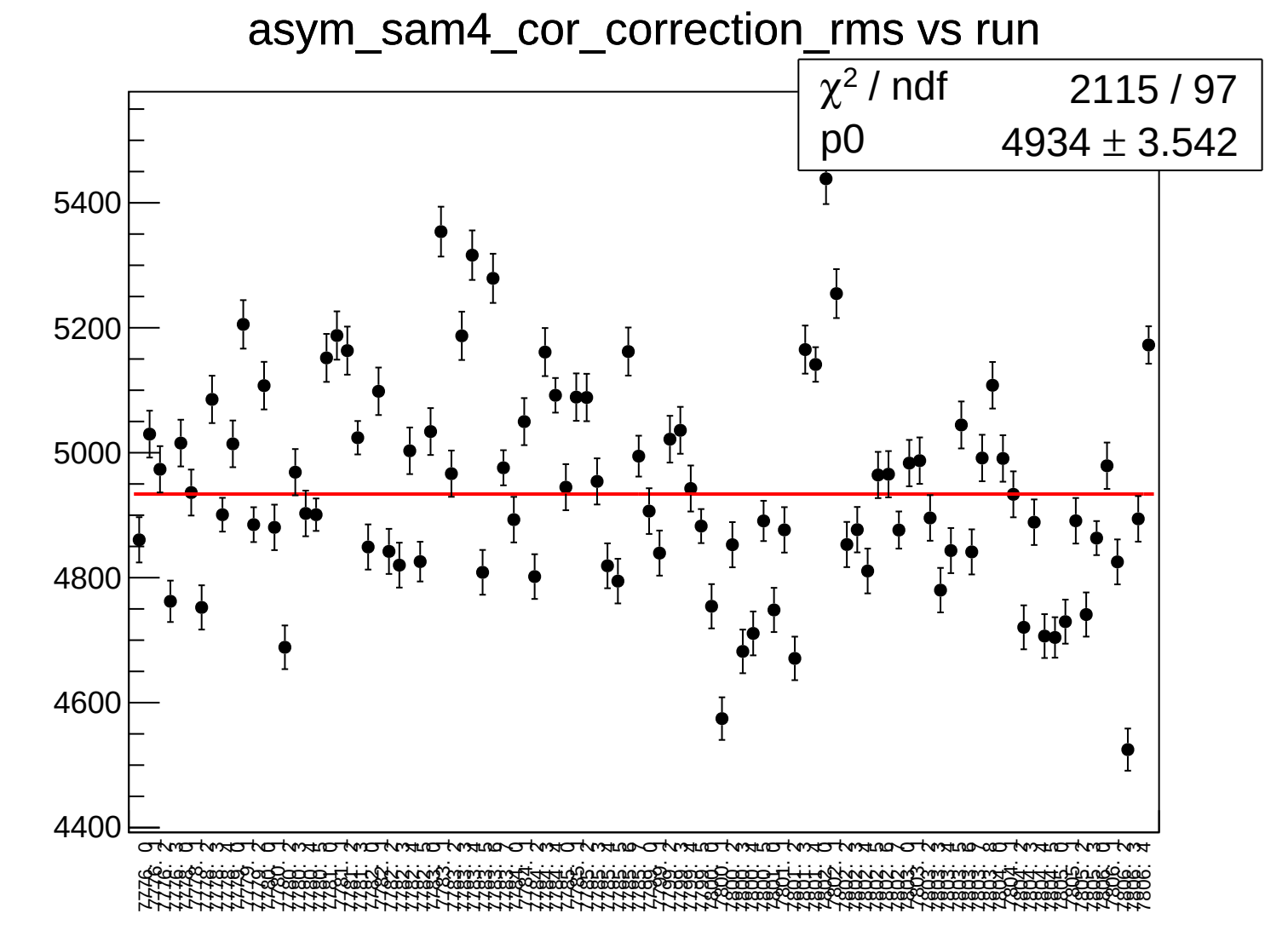

cor_asym_sam4_mean vs run
χ² / ndf 104.5 / 97
p0 273.8 ± 370.5
15000
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 71.38
Std Dev 79.81
2
1
0
−1
−2

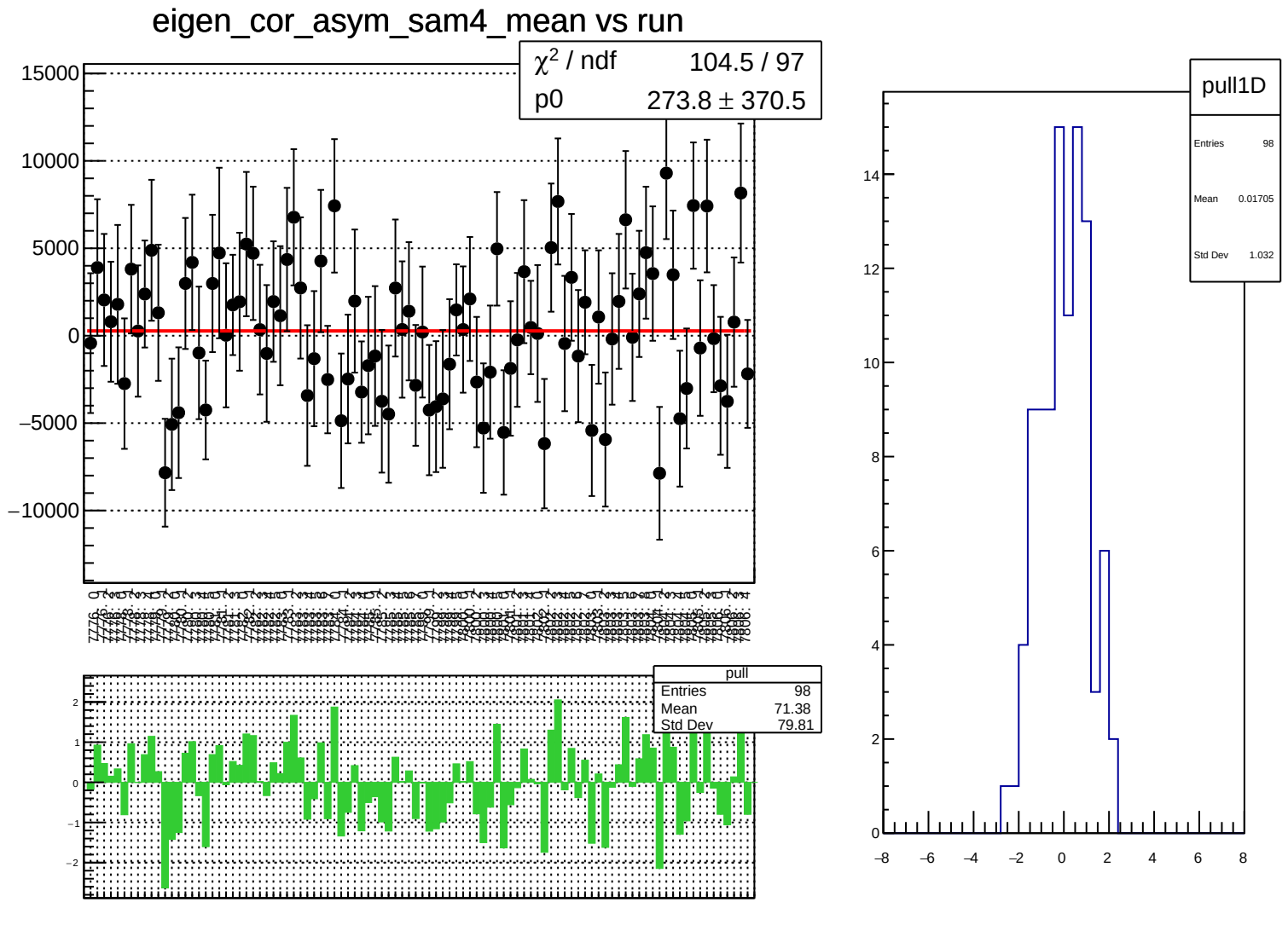

pull1D
Entries 98
Mean 0.01705
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

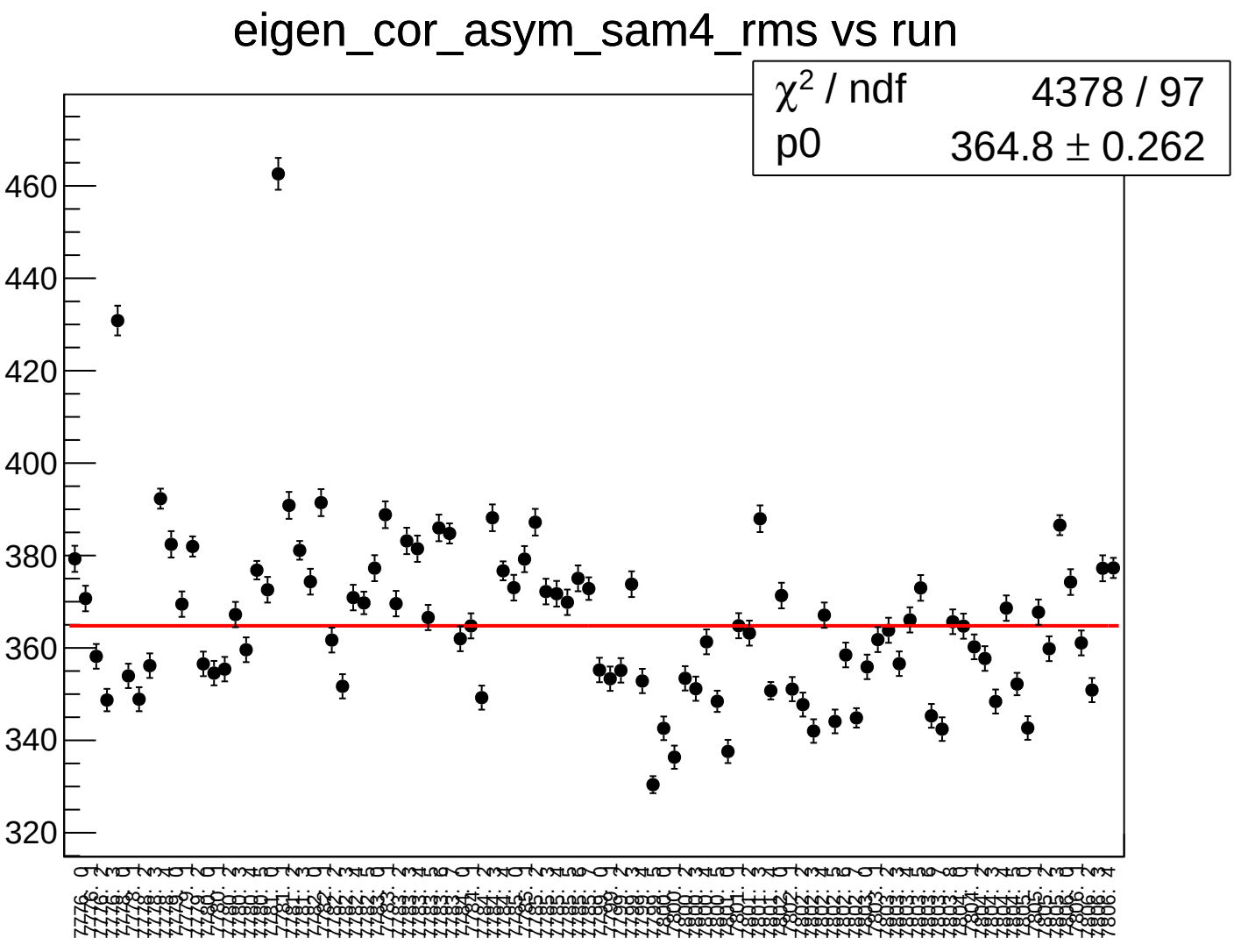

cor_asym_sam4_rms vs run
χ² / ndf 4378 / 97
p0 364.8 ± 0.262
460
440
420
400
380
360
340
320

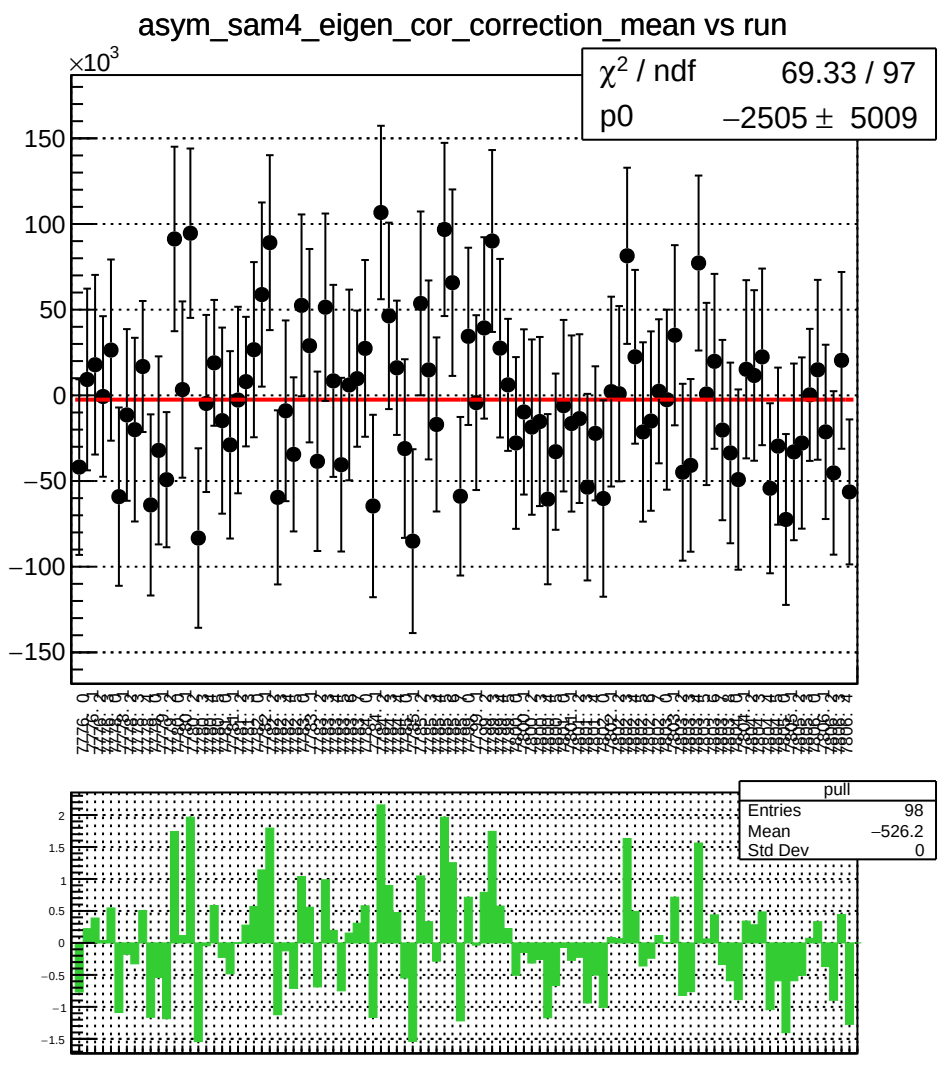

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 69.33 / 97
p0 −2505 ± 5009
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −526.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

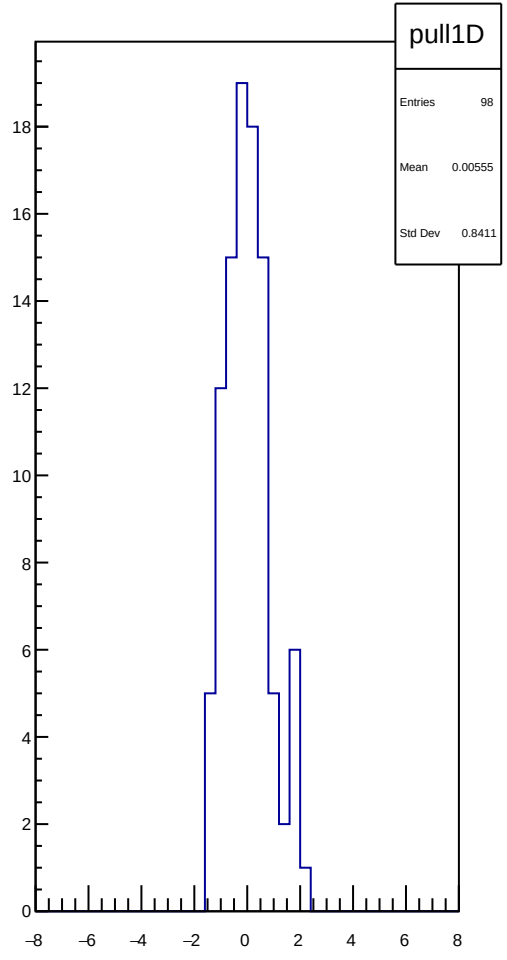

pull1D
Entries 98
Mean 0.00555
Std Dev 0.8411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

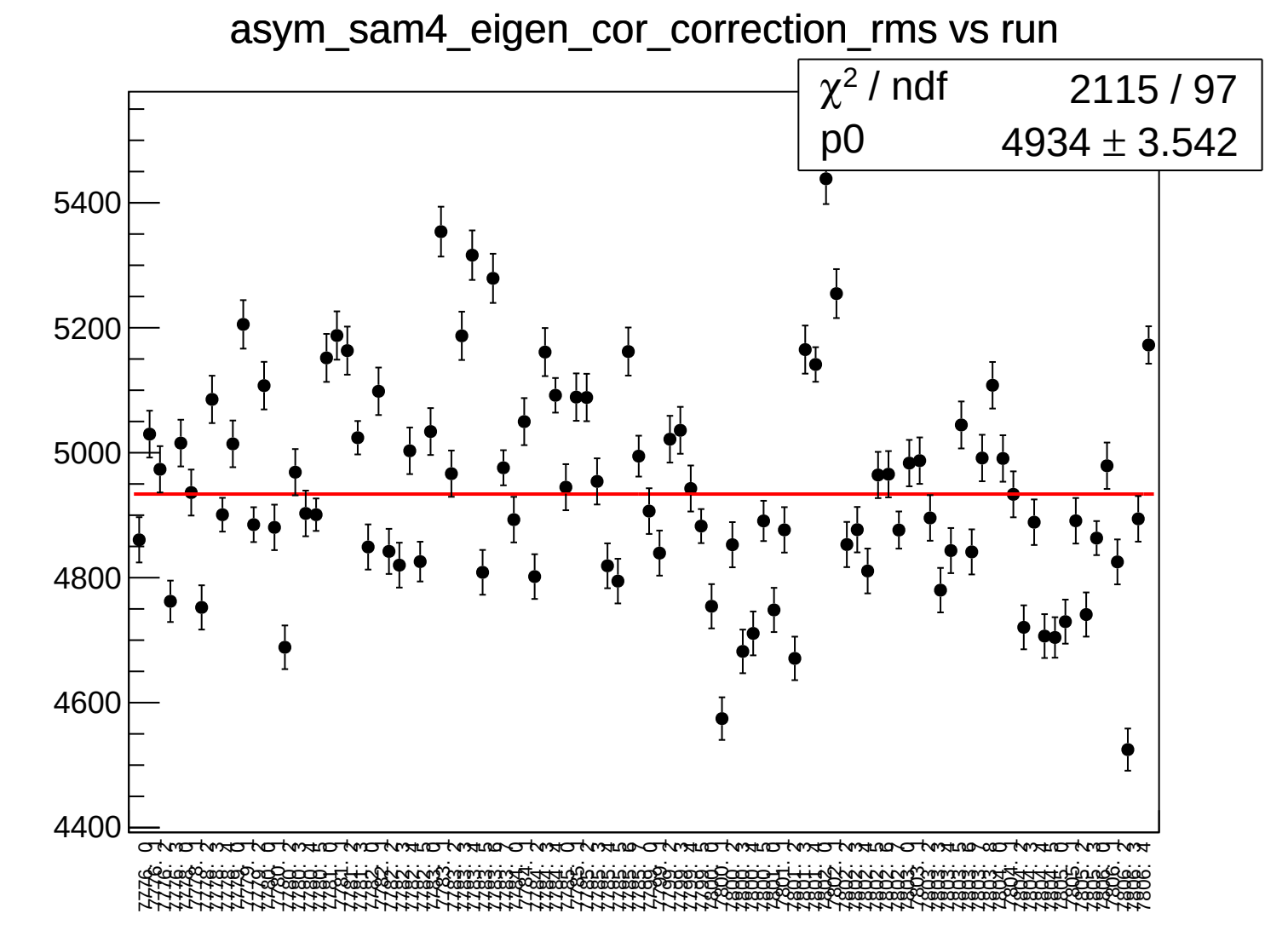

asym_sam4_cor_correction_rms vs run
χ^2 / ndf 2115 / 97
p0 4934 ± 3.542
5400
5200
5000
4800
4600
4400

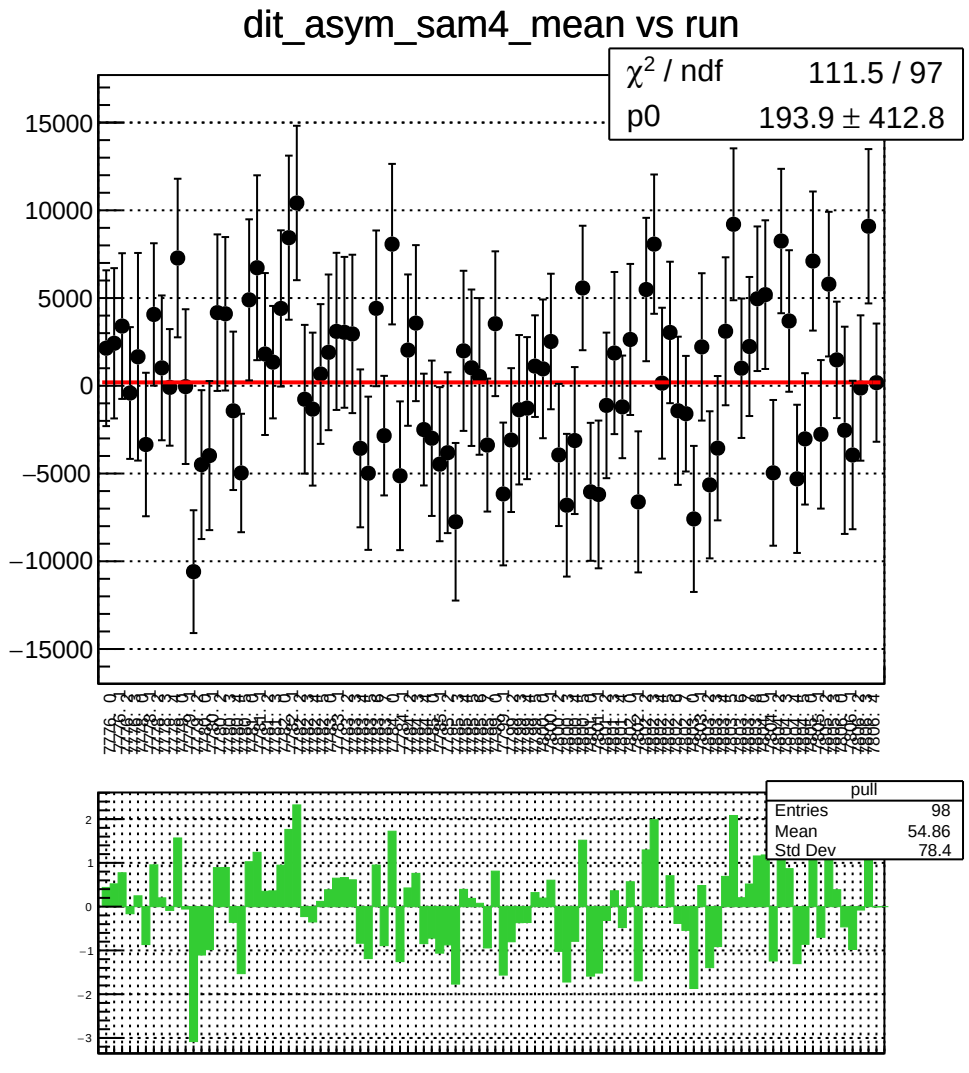

eigen_cor_asym_sam4_mean vs run
χ² / ndf 104.5 / 97
p0 273.8 ± 370.5
15000
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 71.38
Std Dev 79.81
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01705
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

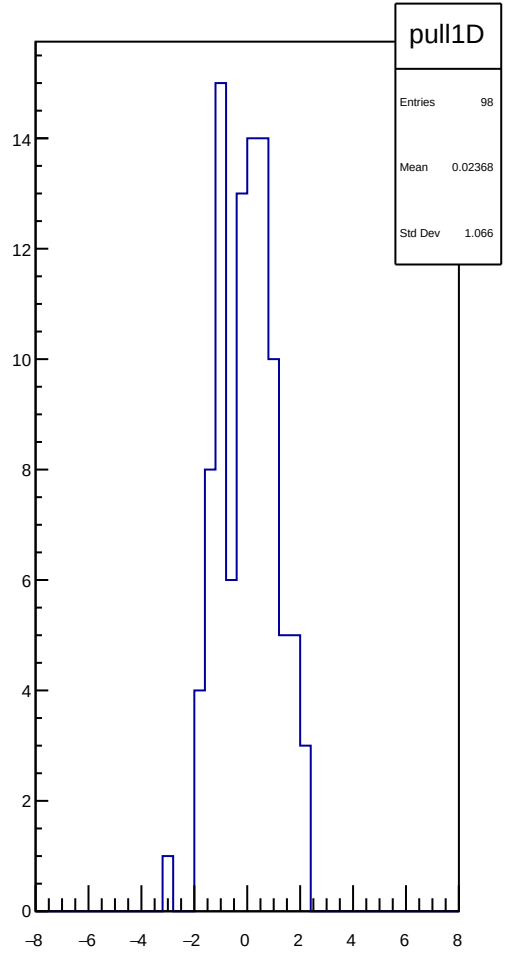

eigen_cor_asym_sam4_rms vs run
χ² / ndf 4378 / 97
p0 364.8 ± 0.262
460
440
420
400
380
360
340
320

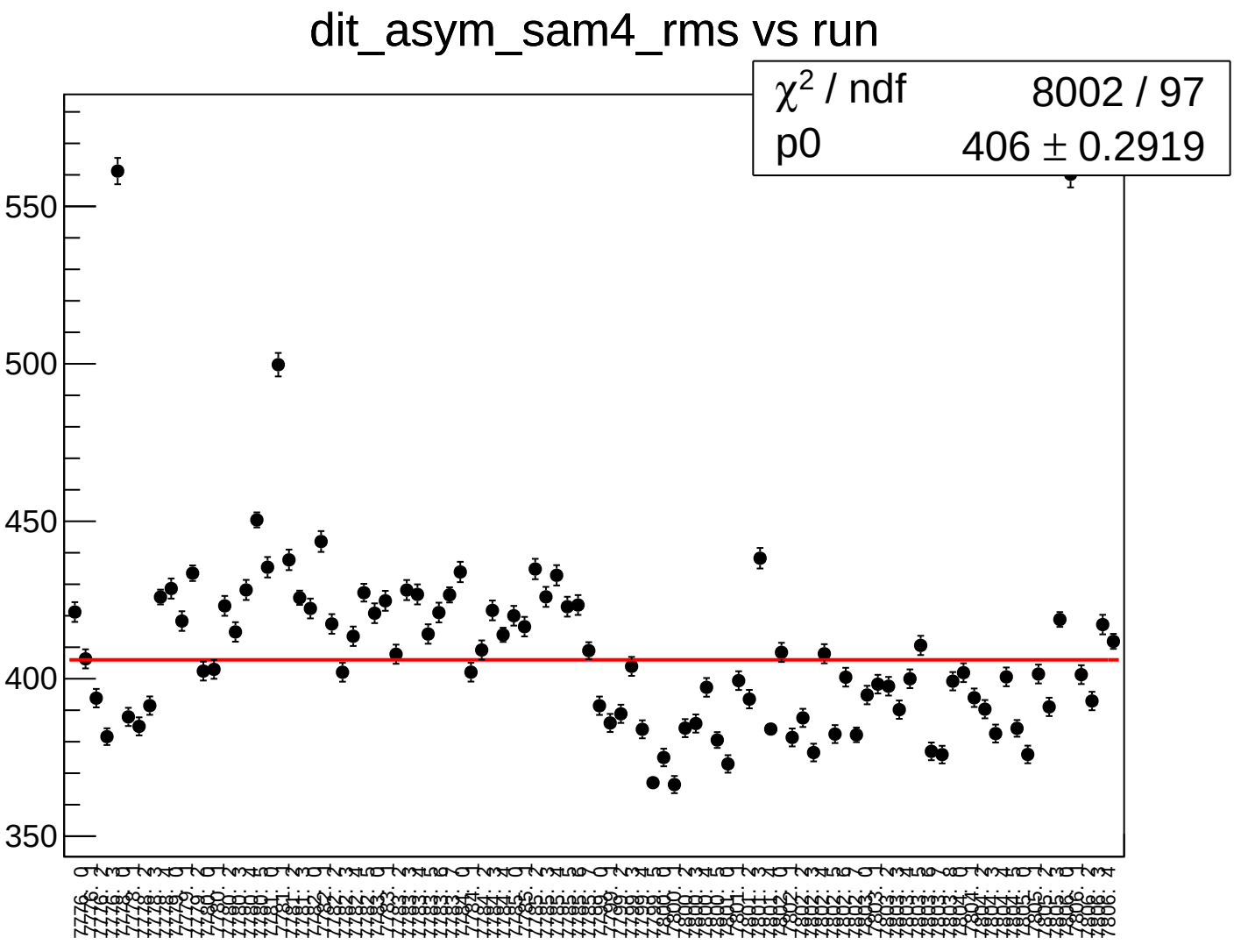

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.33 / 97
p0 −2505 ± 5009
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −526.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

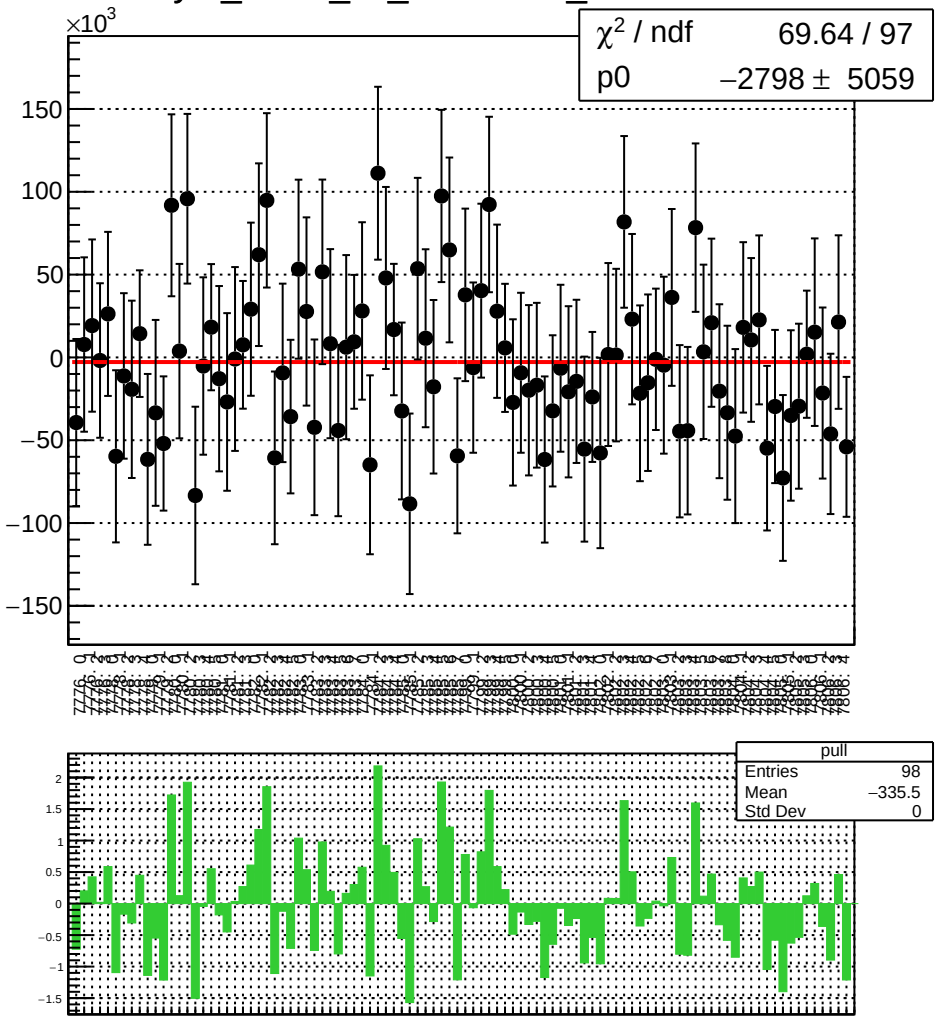

pull1D
Entries 98
Mean 0.00555
Std Dev 0.8411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

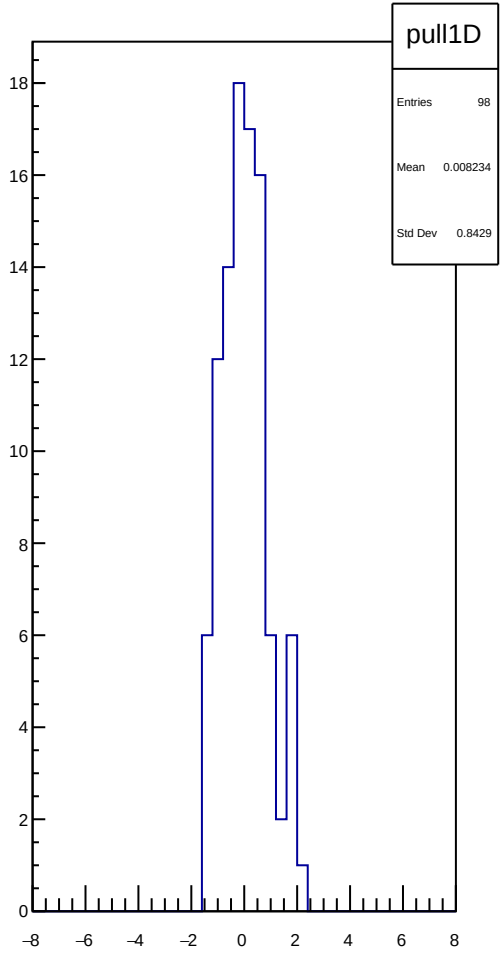

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 2115 / 97
p0 4934 ± 3.542
5400
5200
5000
4800
4600
4400

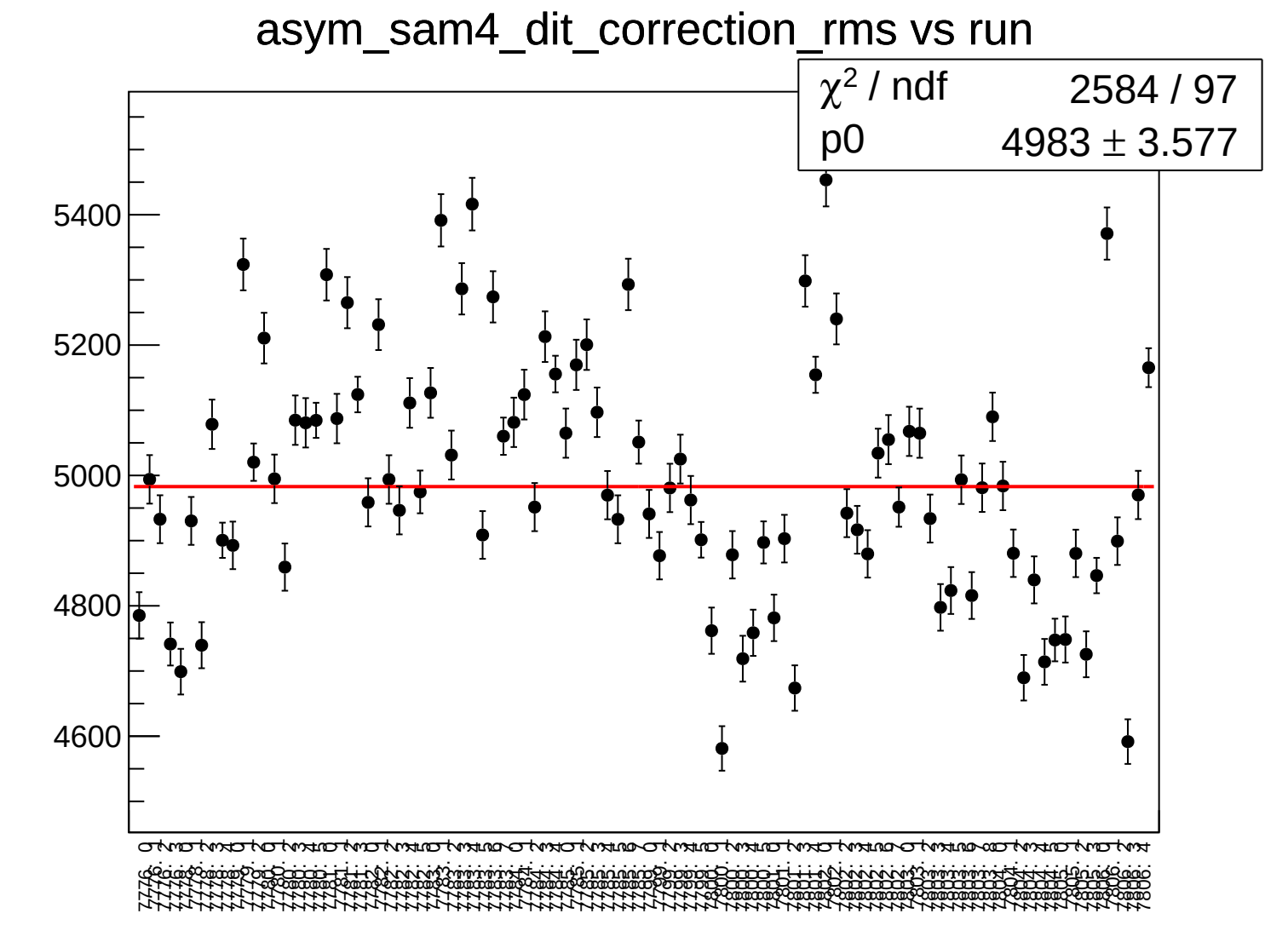

dit_asym_sam4_mean vs run
χ^2 / ndf 111.5 / 97
p0 193.9 ± 412.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 54.86
Std Dev 78.4
2
1
0
−1
−2
−3

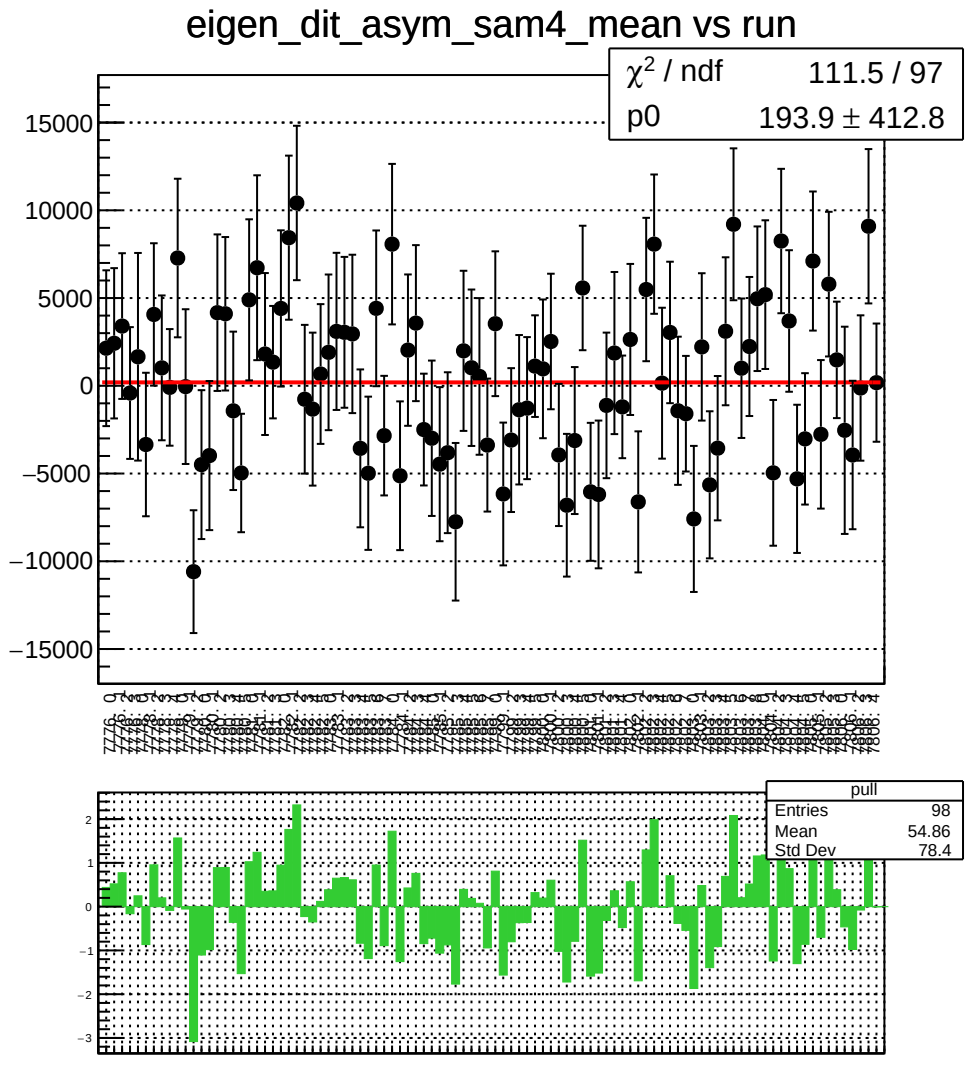

pull1D
Entries 98
Mean 0.02368
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

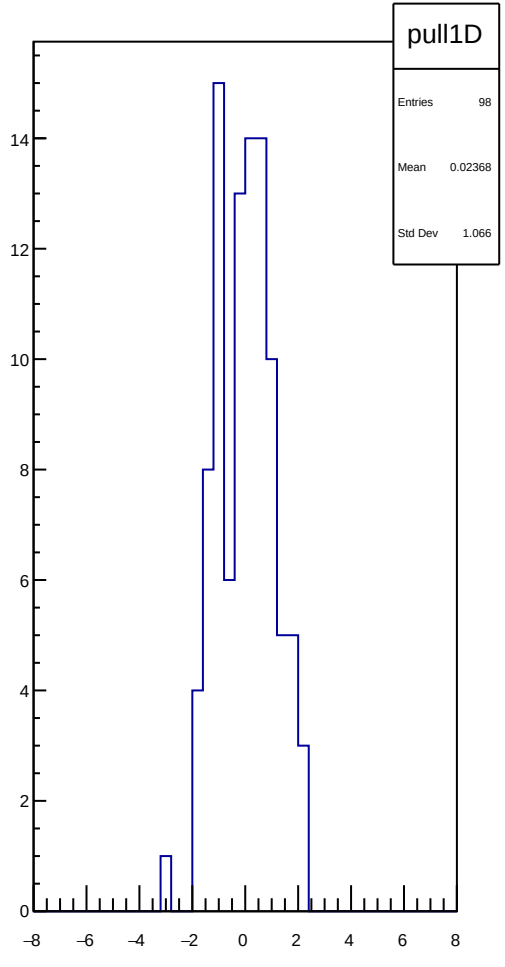

dit_asym_sam4_rms vs run
χ² / ndf 8002 / 97
p0 406 ± 0.2919
550
500
450
400
350

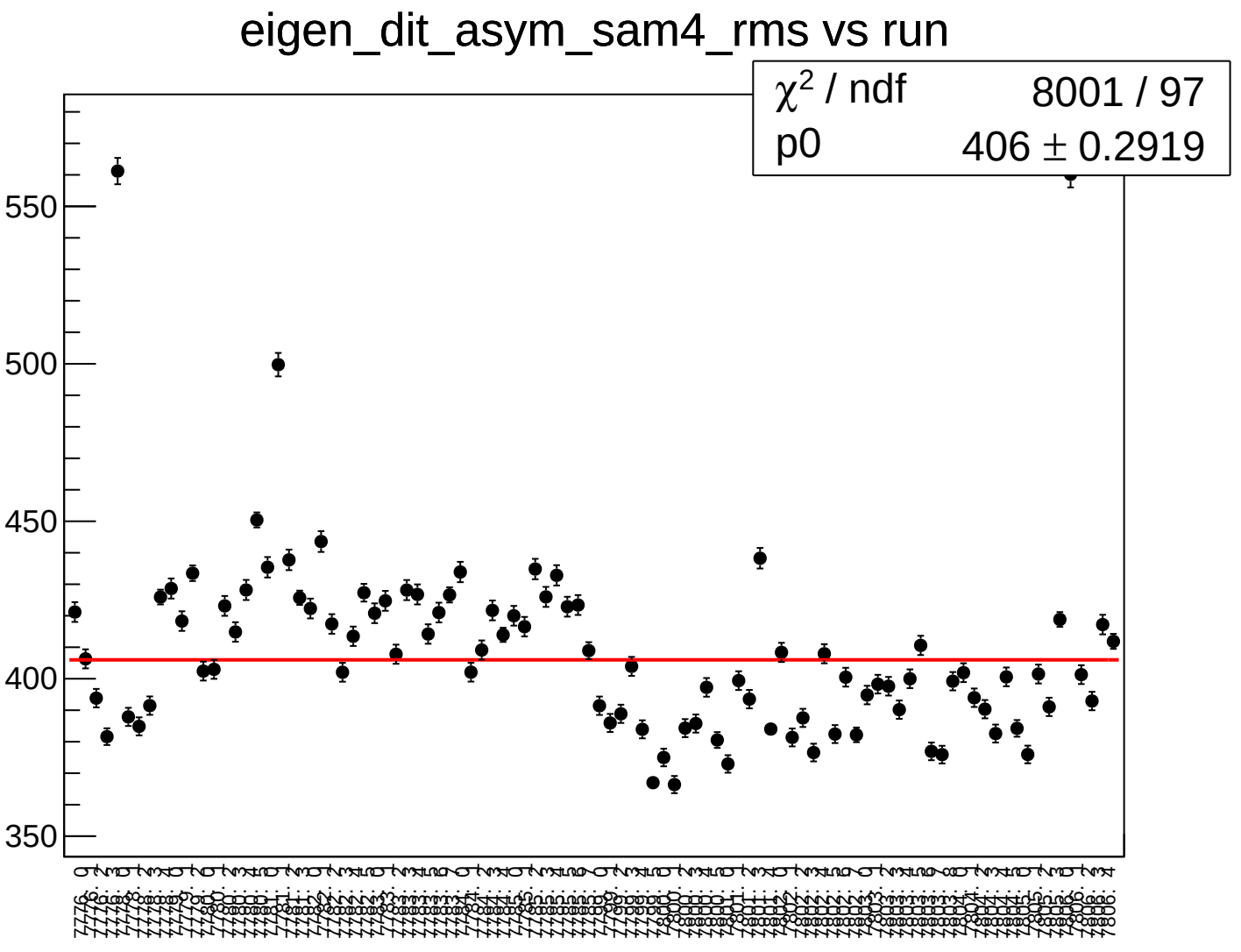

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 69.64 / 97
p0 −2798 ± 5059
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −335.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

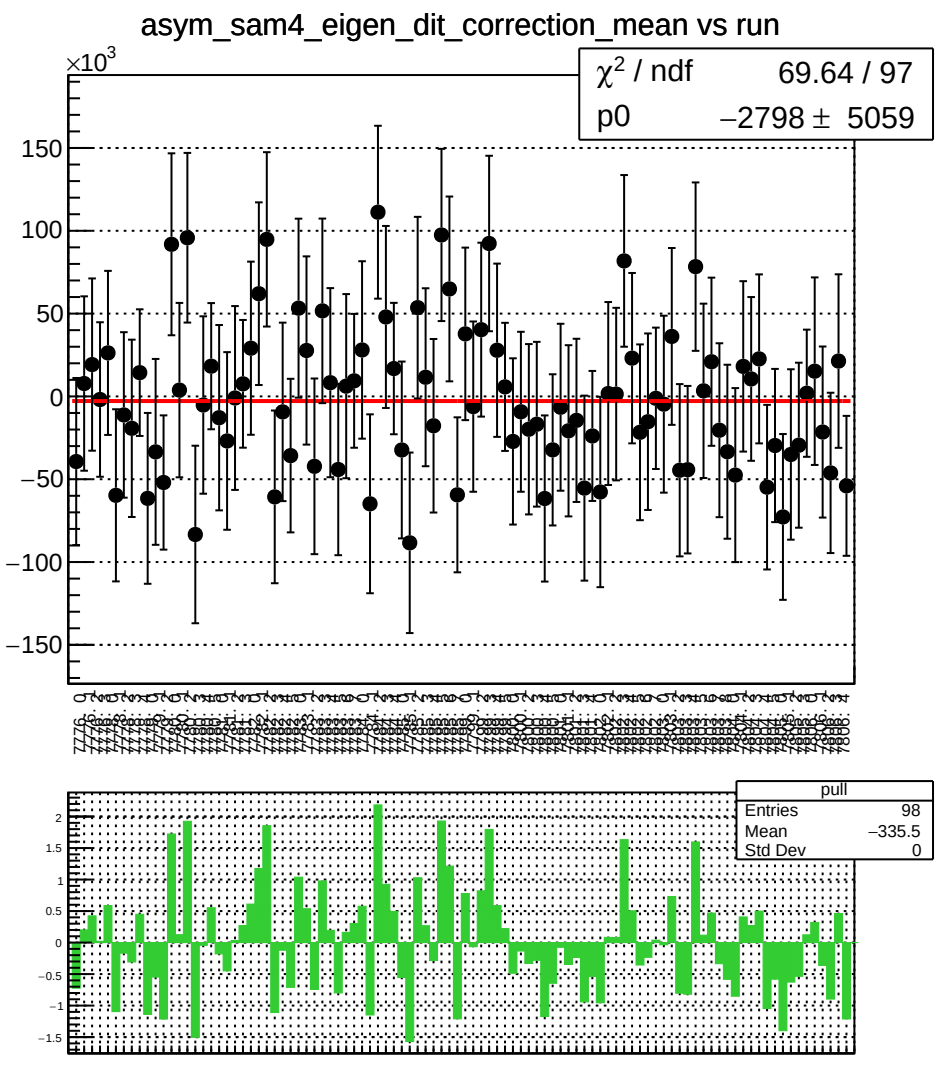

pull1D
Entries 98
Mean 0.008234
Std Dev 0.8429
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

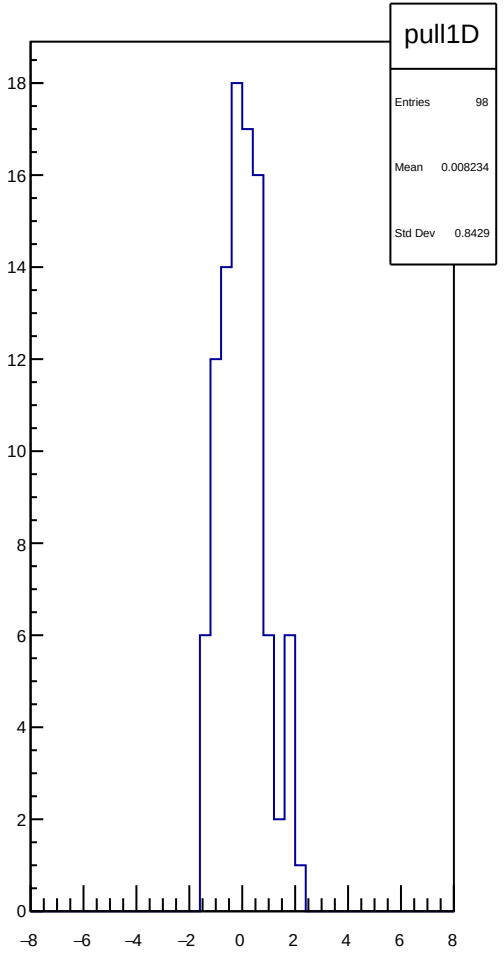

asym_sam4_dit_correction_rms vs run
χ² / ndf 2584 / 97
p0 4983 ± 3.577
5400
5200
5000
4800
4600


eigen_dit_asym_sam4_mean vs run
χ² / ndf 111.5 / 97
p0 193.9 ± 412.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean 54.86
Std Dev 78.4
2
1
0
−1
−2
−3


pull1D
Entries 98
Mean 0.02368
Std Dev 1.066
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 8001 / 97
p0 406 ± 0.2919
550
500
450
400
350


asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.64 / 97
p0 −2798 ± 5059
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −335.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 98
Mean 0.008234
Std Dev 0.8429
18
16
14
12
10
8
6
4
2
0
−8
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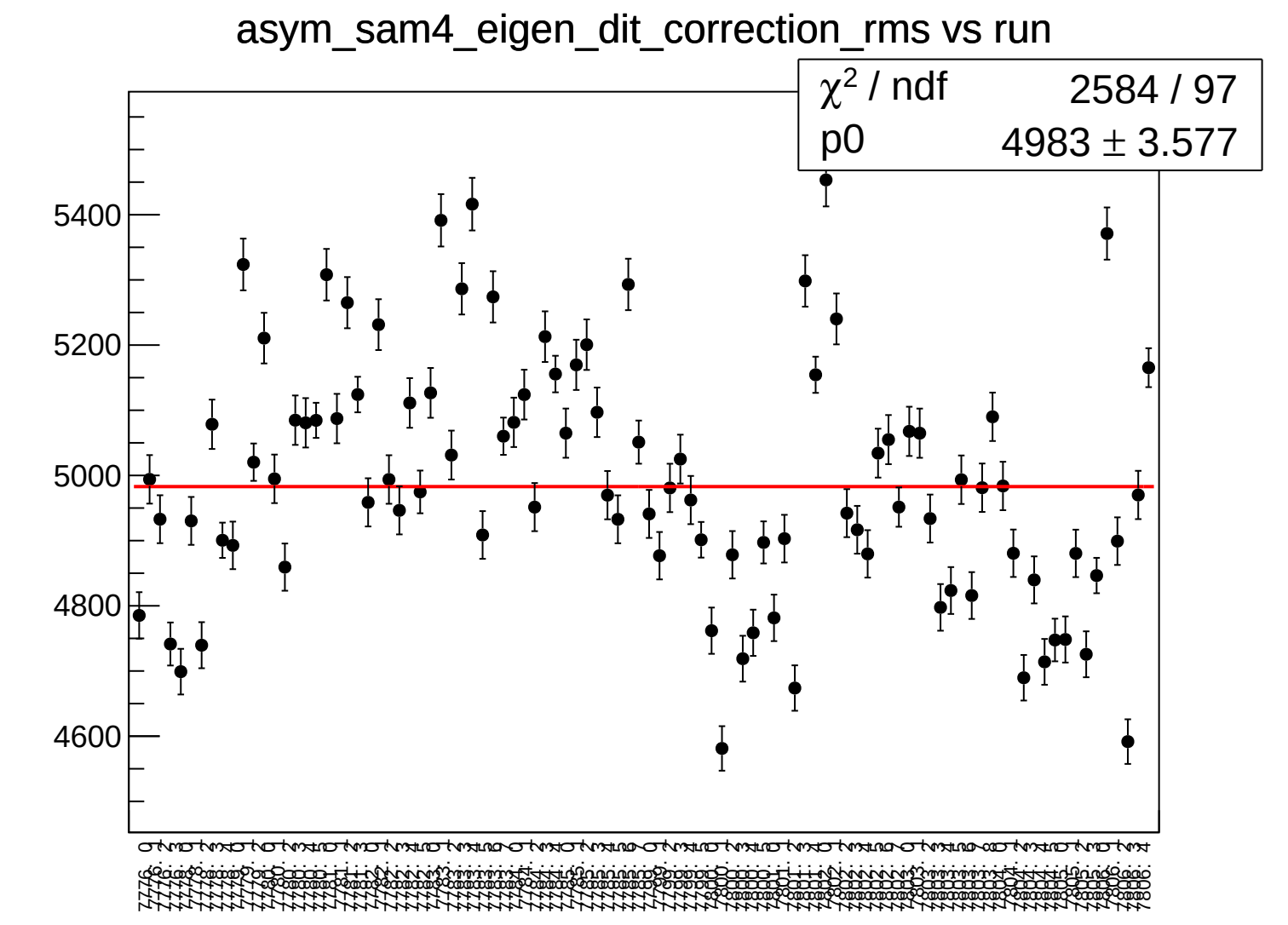
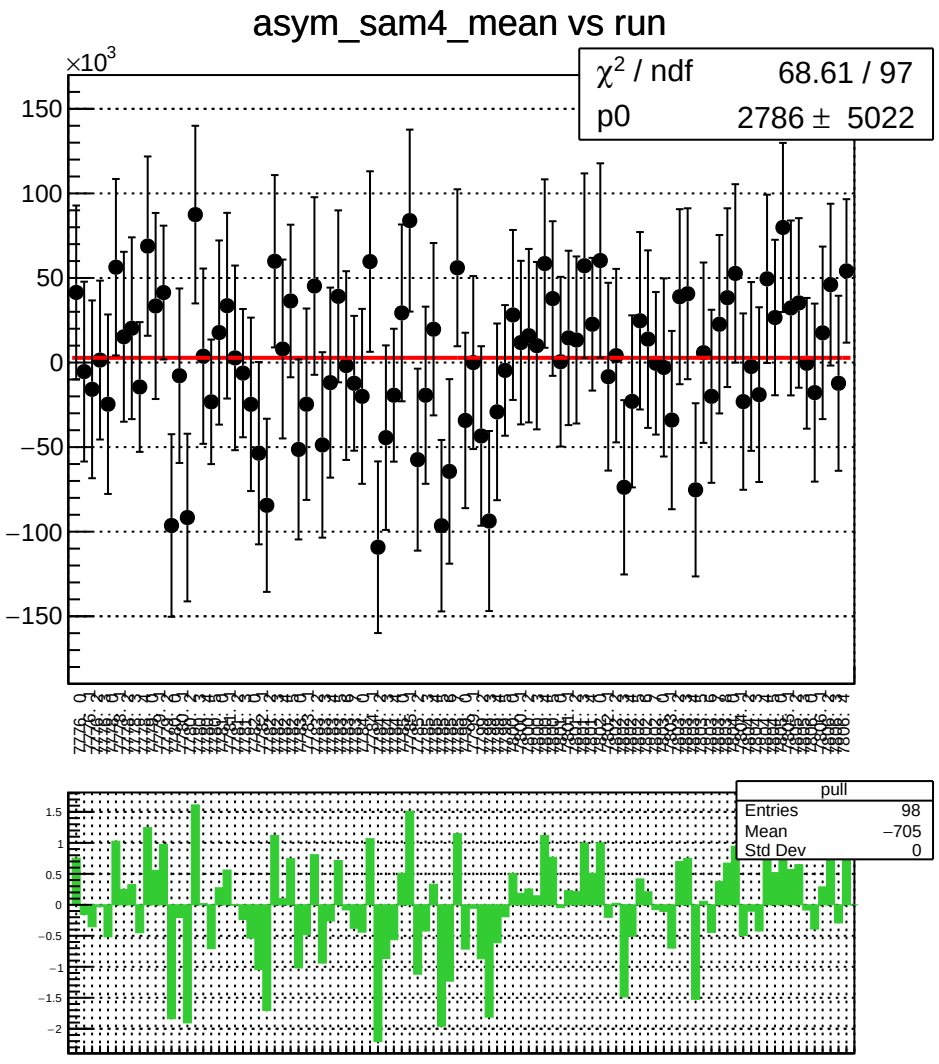
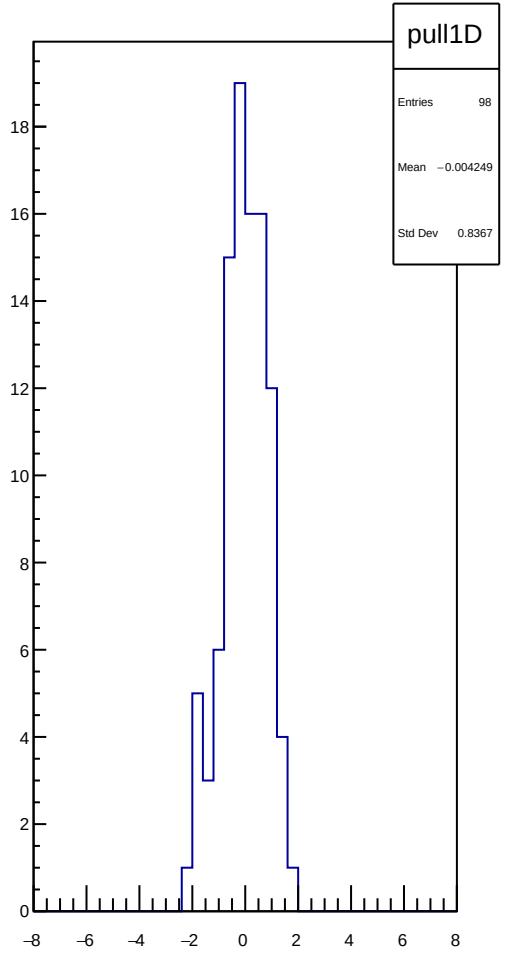
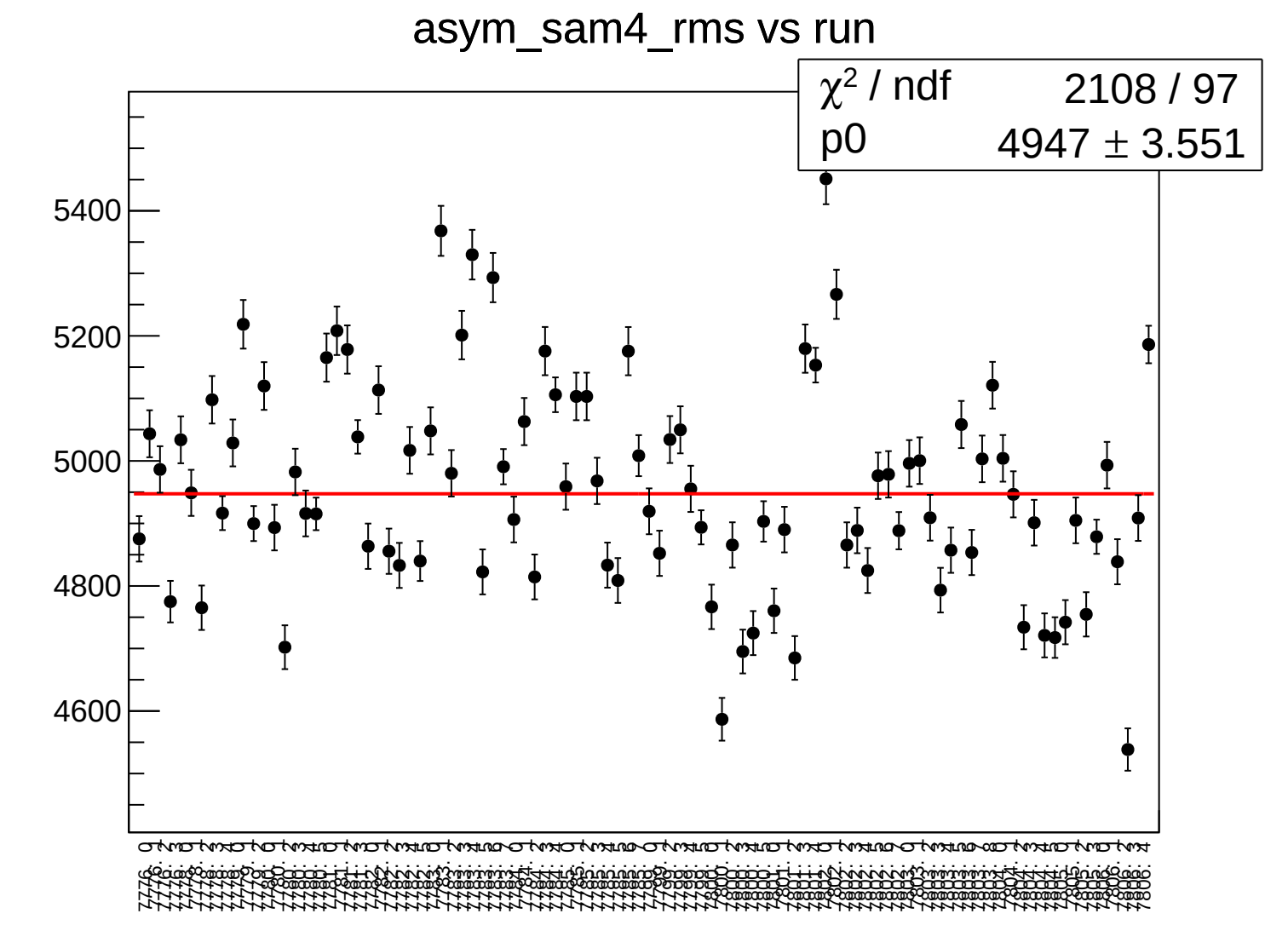
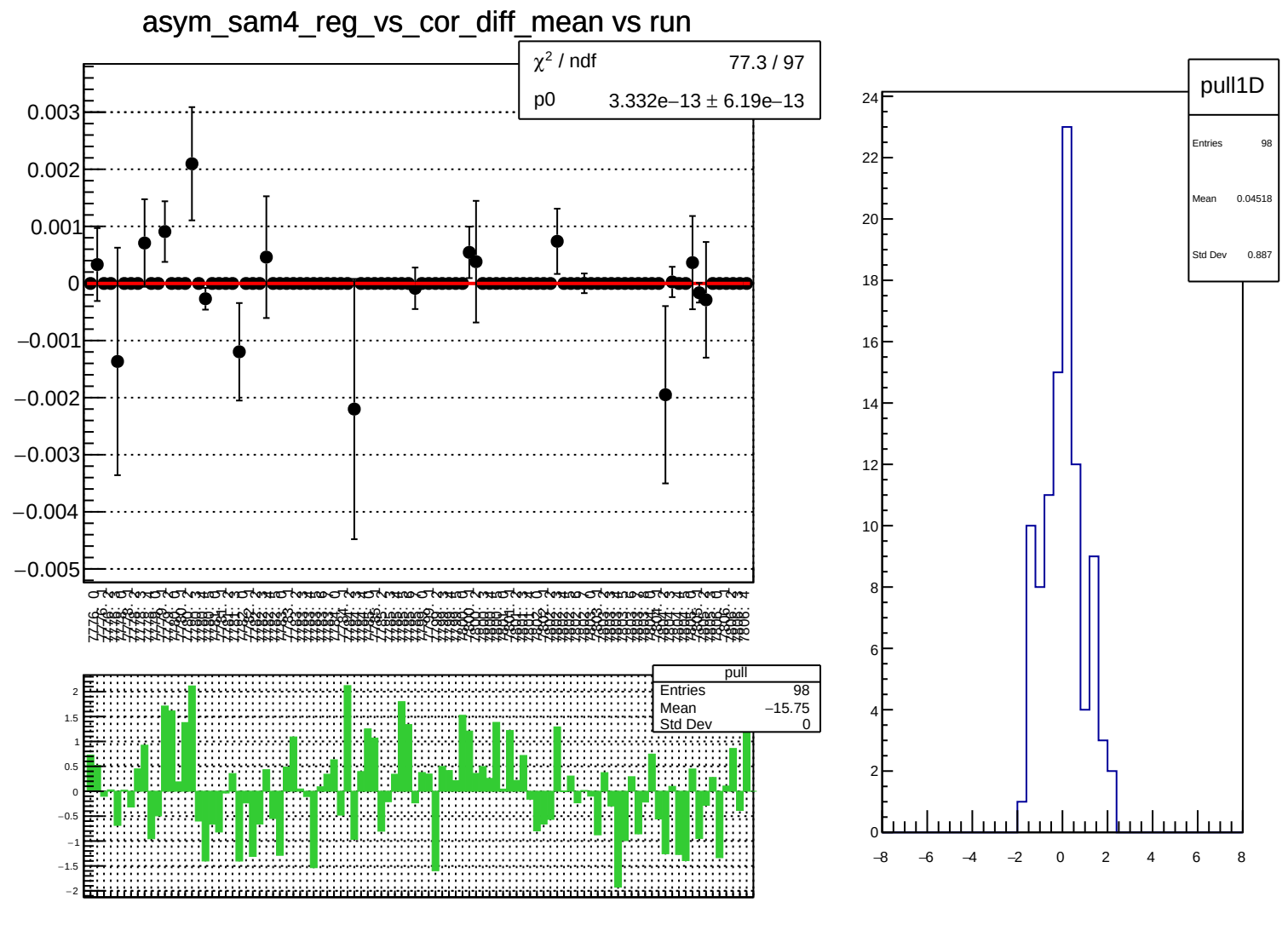
−4
−2
0
2
4
6
8

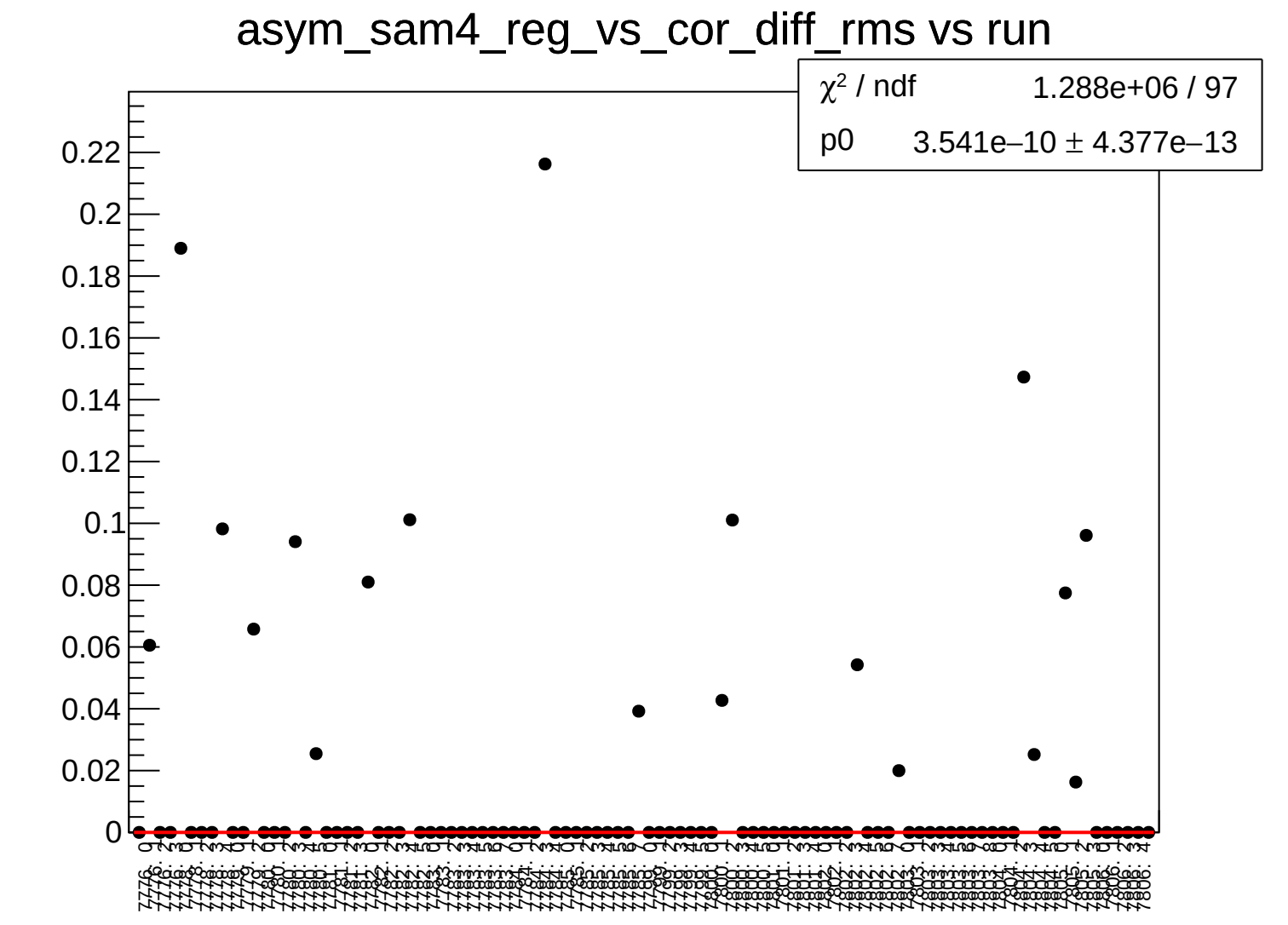

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2584 / 97
p0 4983 ± 3.577
5400
5200
5000
4800
4600

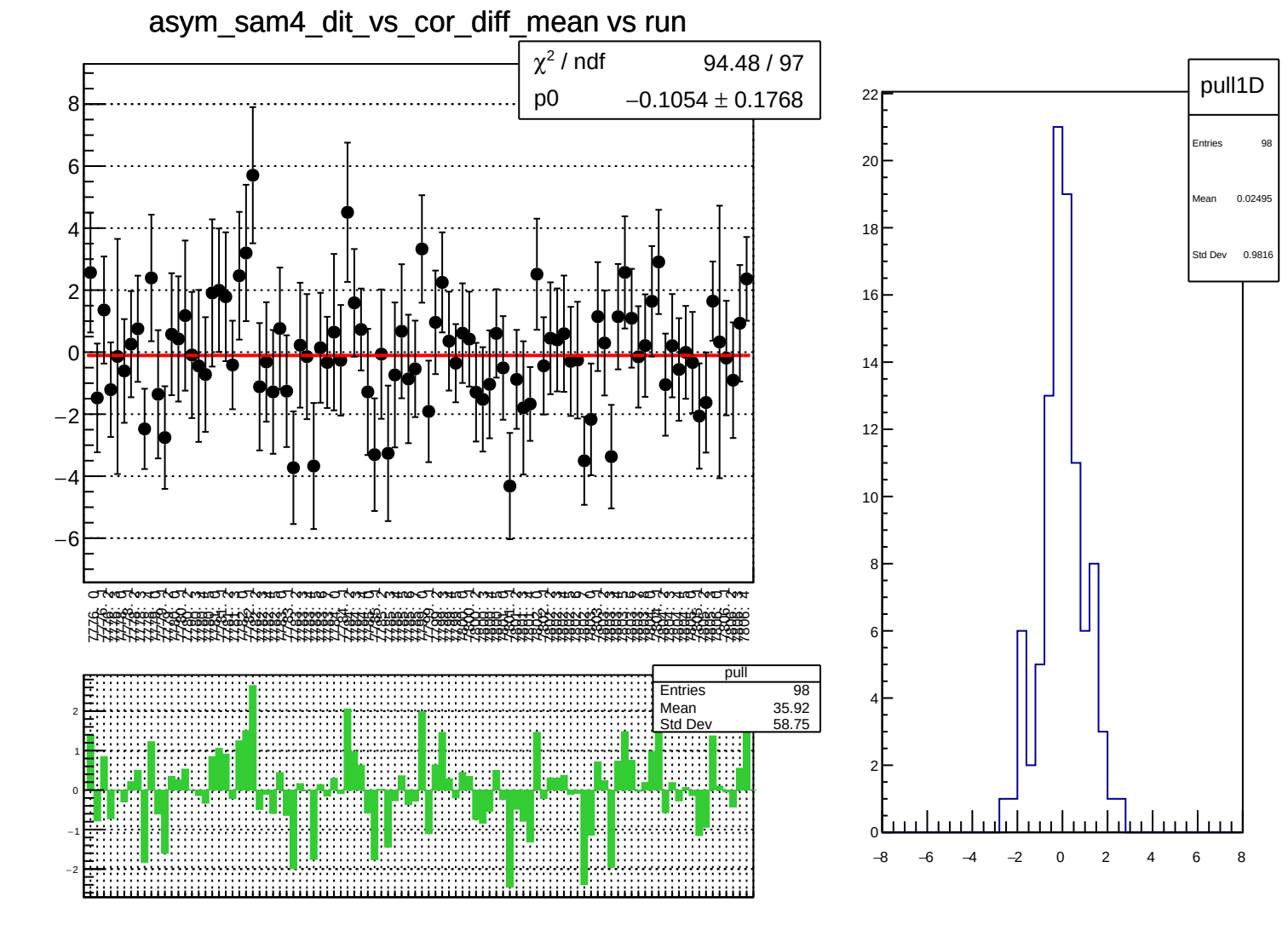

asym_sam4_mean vs run
×10^3
χ^2 / ndf 68.61 / 97
p0 2786 ± 5022
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −705
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

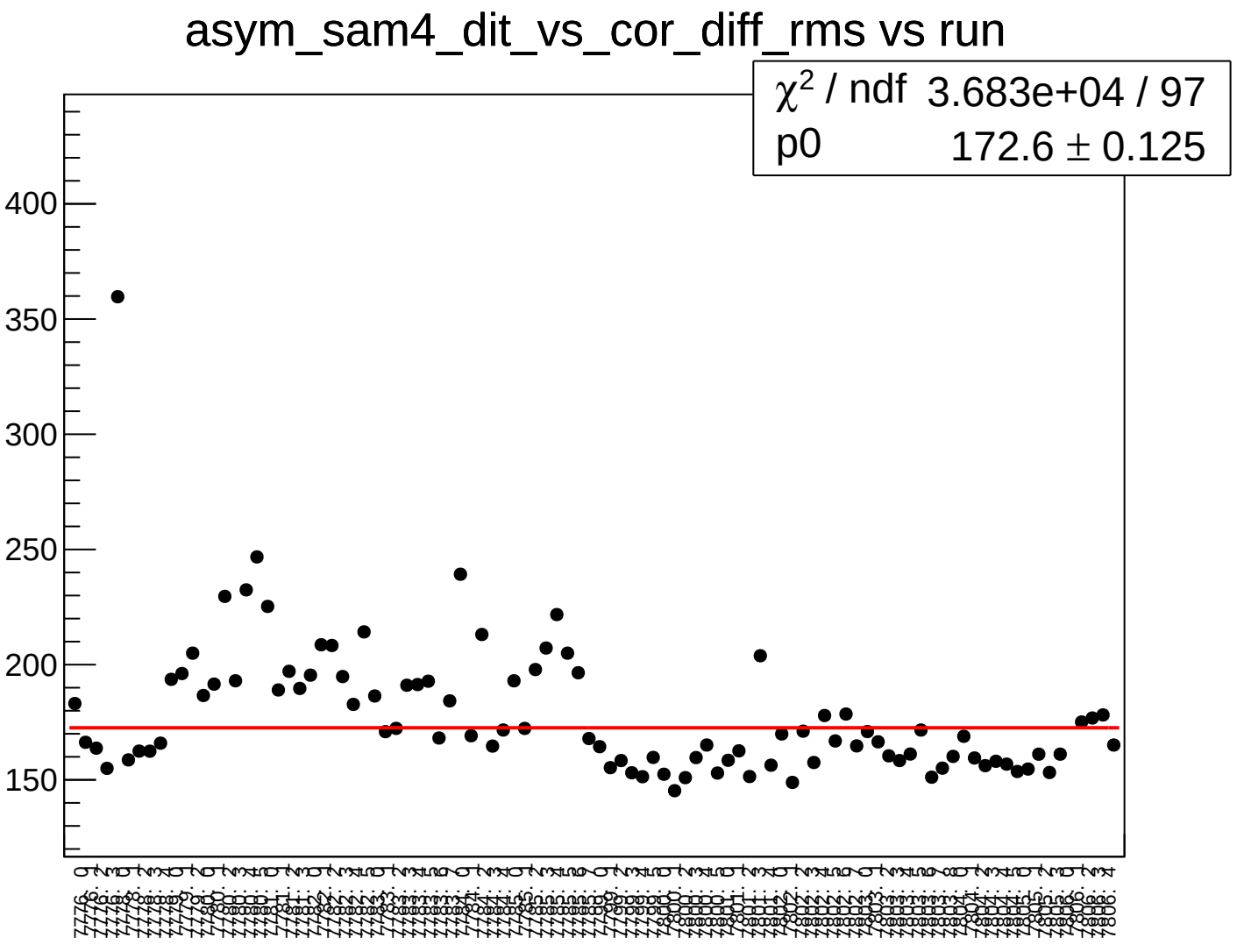

pull1D
Entries 98
Mean −0.004249
Std Dev 0.8367
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

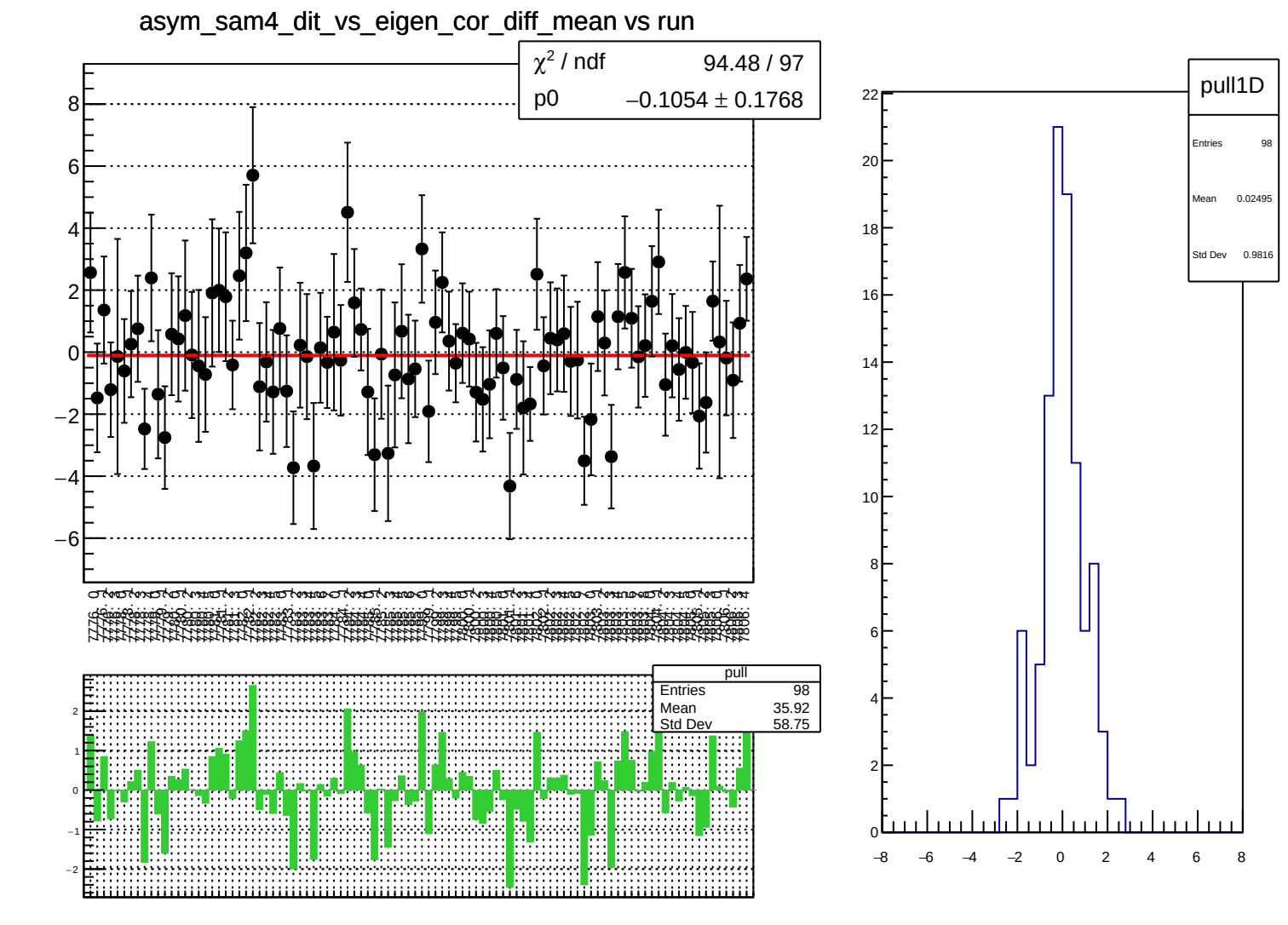

asym_sam4_rms vs run
χ^2 / ndf 2108 / 97
p0 4947 ± 3.551
5400
5200
5000
4800
4600

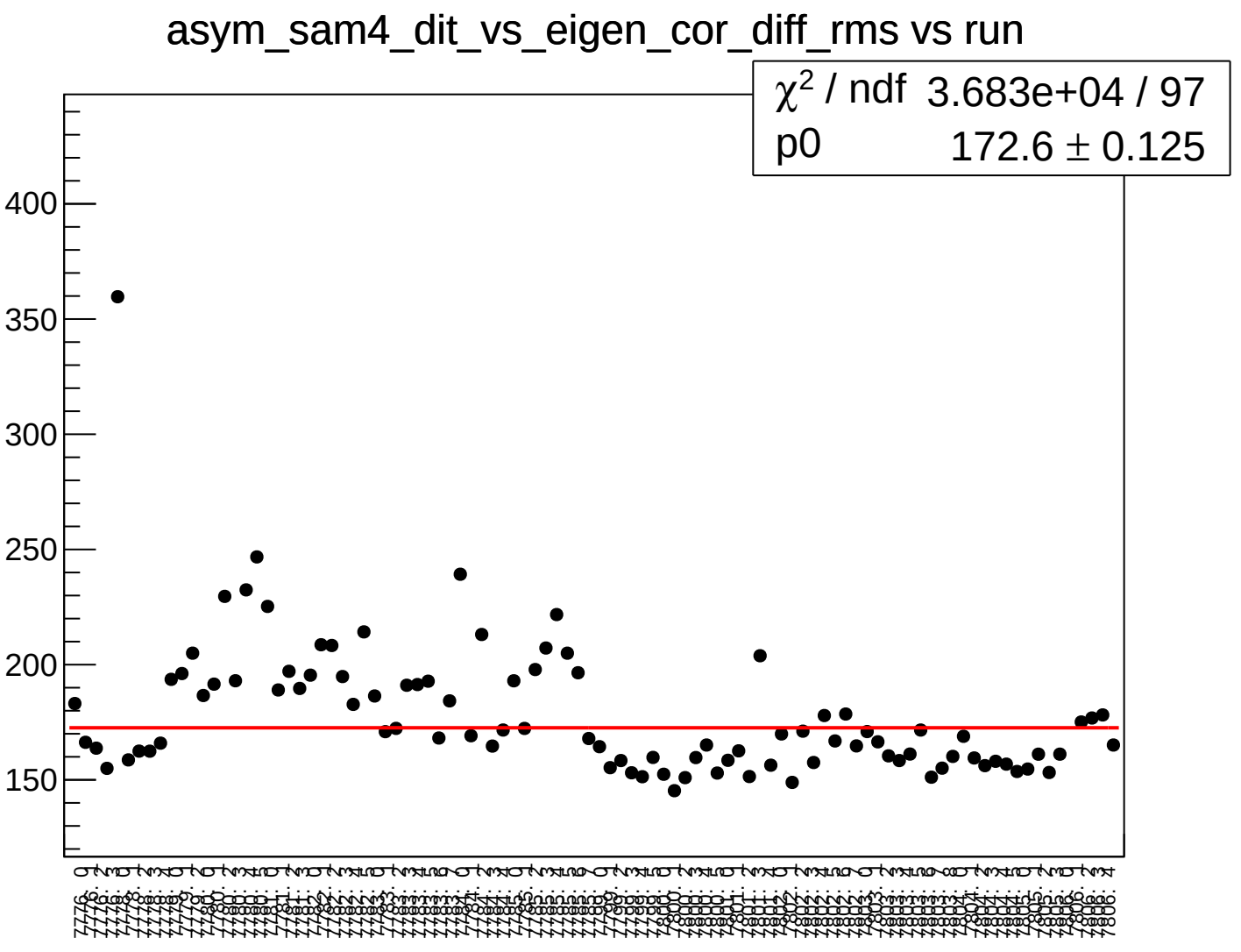

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 77.3 / 97
p0 3.332e−13 ± 6.19e−13
pull
Entries 98
Mean −15.75
Std Dev 0
pull1D
Entries 98
Mean 0.04518
Std Dev 0.887

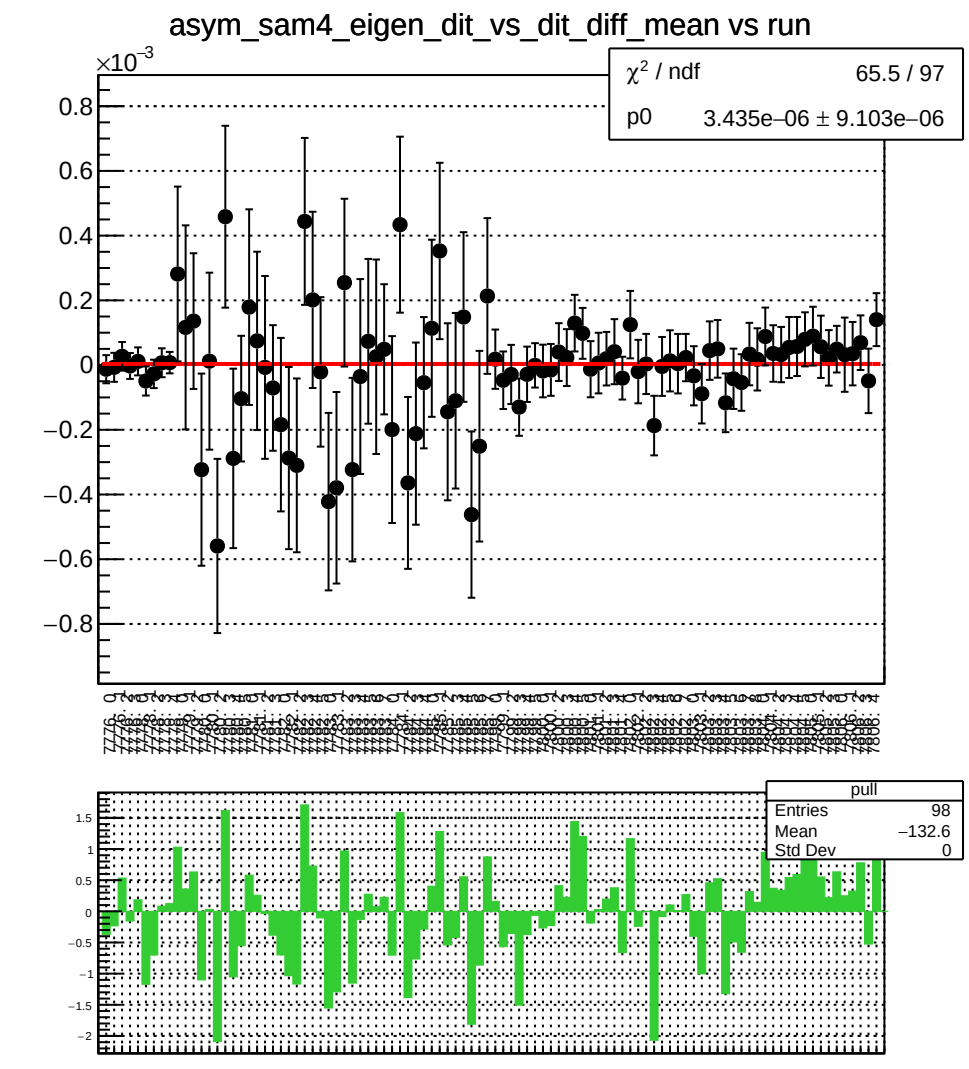

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.288e+06 / 97
p0 3.541e−10 ± 4.377e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

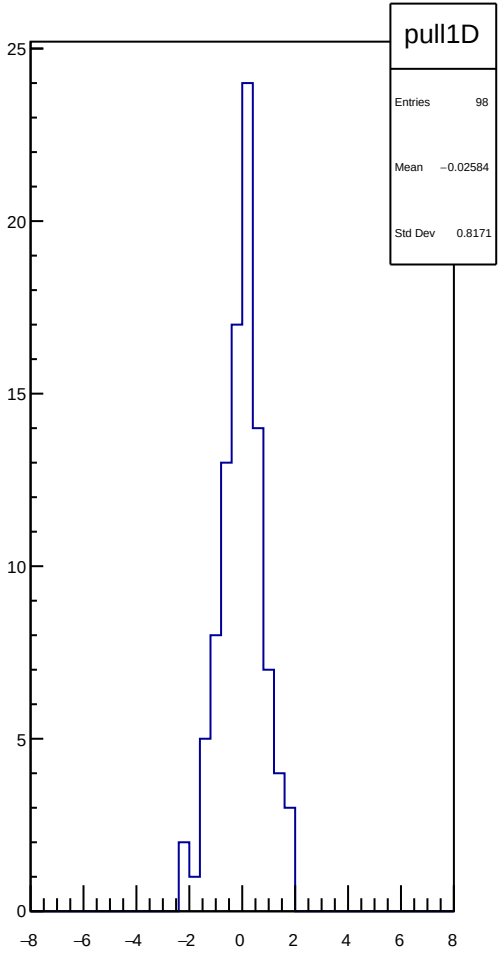

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 94.48 / 97
p0 −0.1054 ± 0.1768
pull
Entries 98
Mean 35.92
Std Dev 58.75
pull1D
Entries 98
Mean 0.02495
Std Dev 0.9816

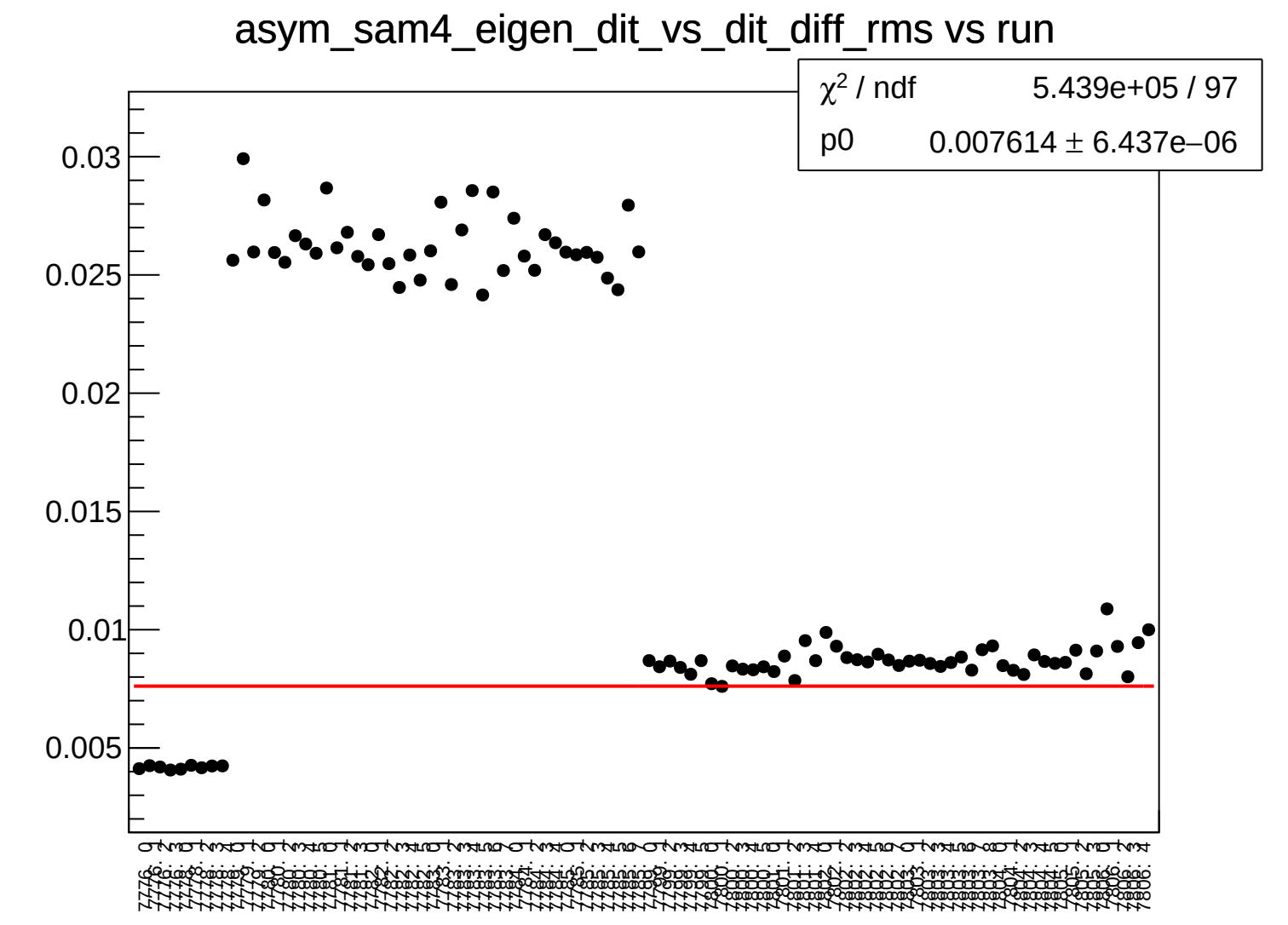

asym_sam4_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.683e+04 / 97
p0 172.6 ± 0.125
400
350
300
250
200
150

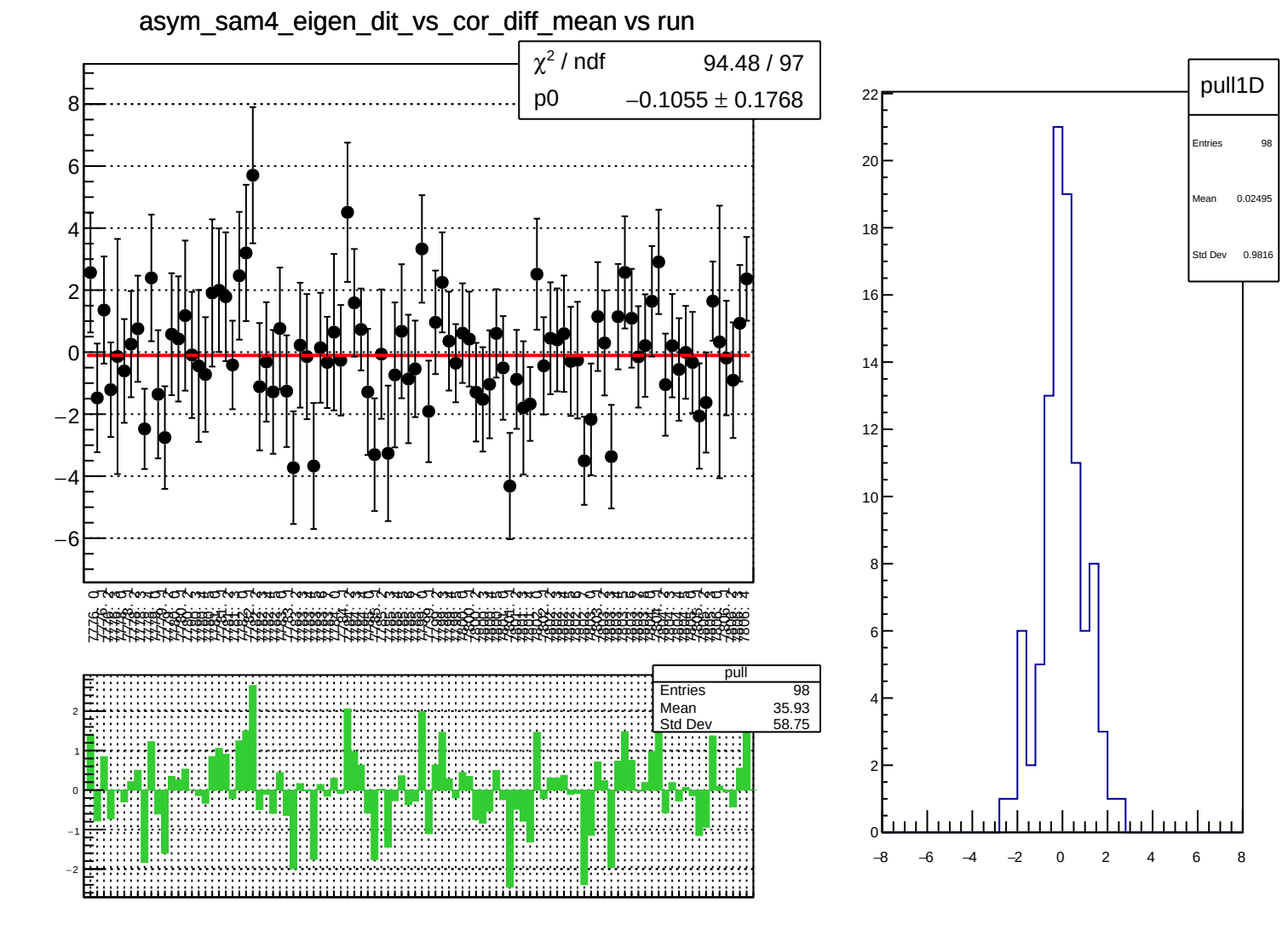

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.48 / 97
p0 −0.1054 ± 0.1768
pull
Entries 98
Mean 35.92
Std Dev 58.75
pull1D
Entries 98
Mean 0.02495
Std Dev 0.9816

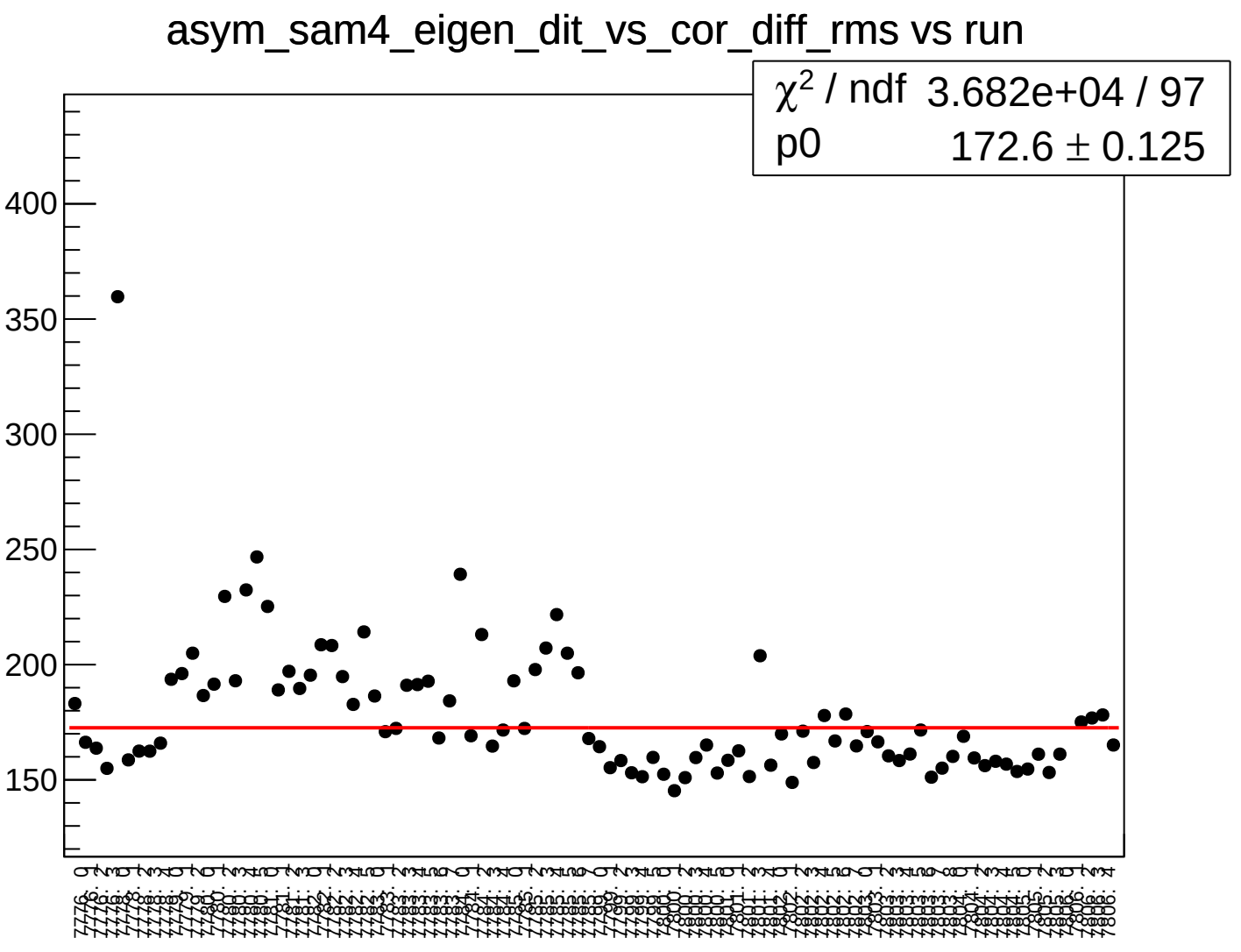

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.683e+04 / 97
p0 172.6 ± 0.125
400
350
300
250
200
150

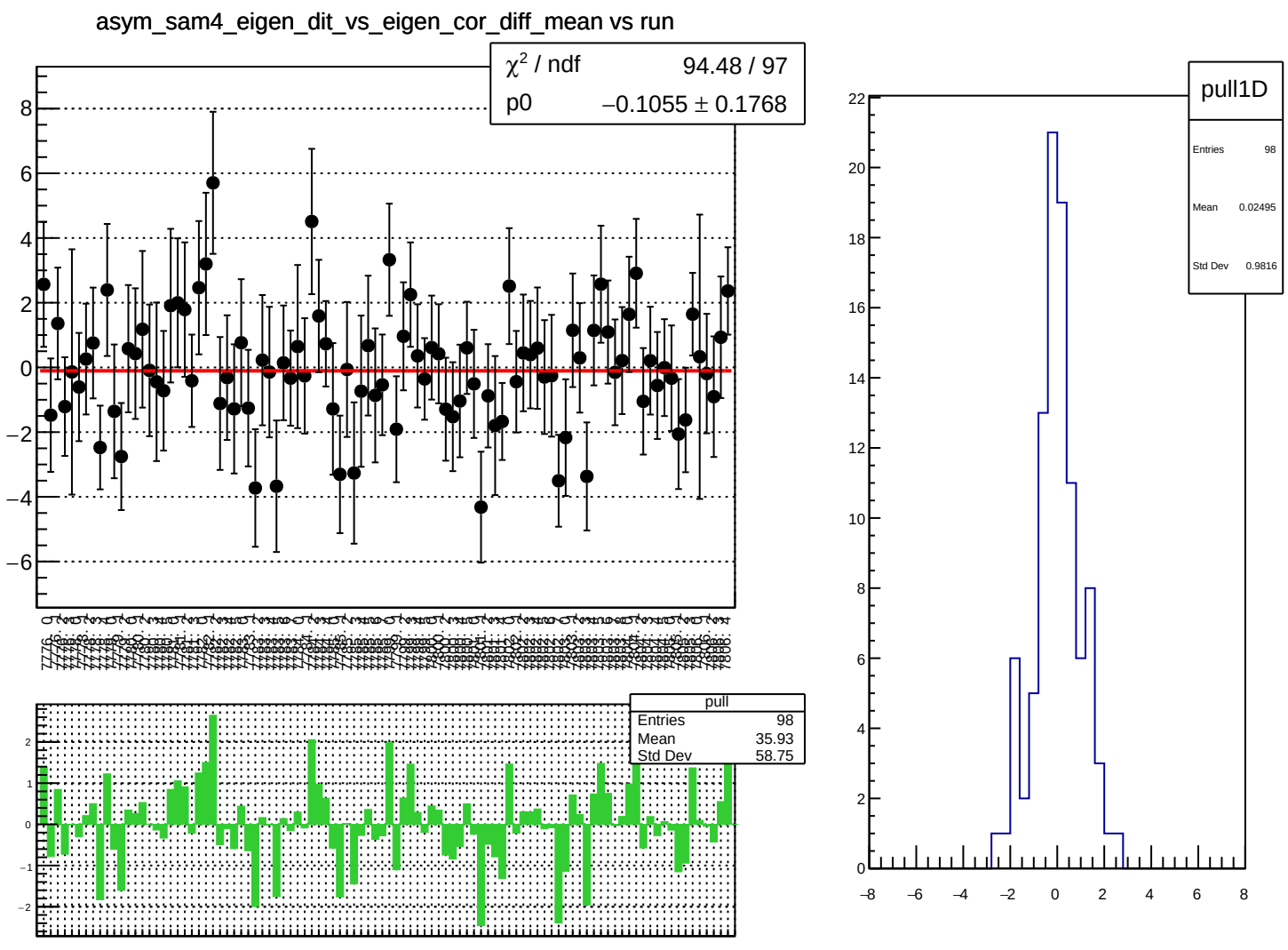

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.5 / 97
p0 3.435e−06 ± 9.103e−06
pull
Entries 98
Mean −132.6
Std Dev 0

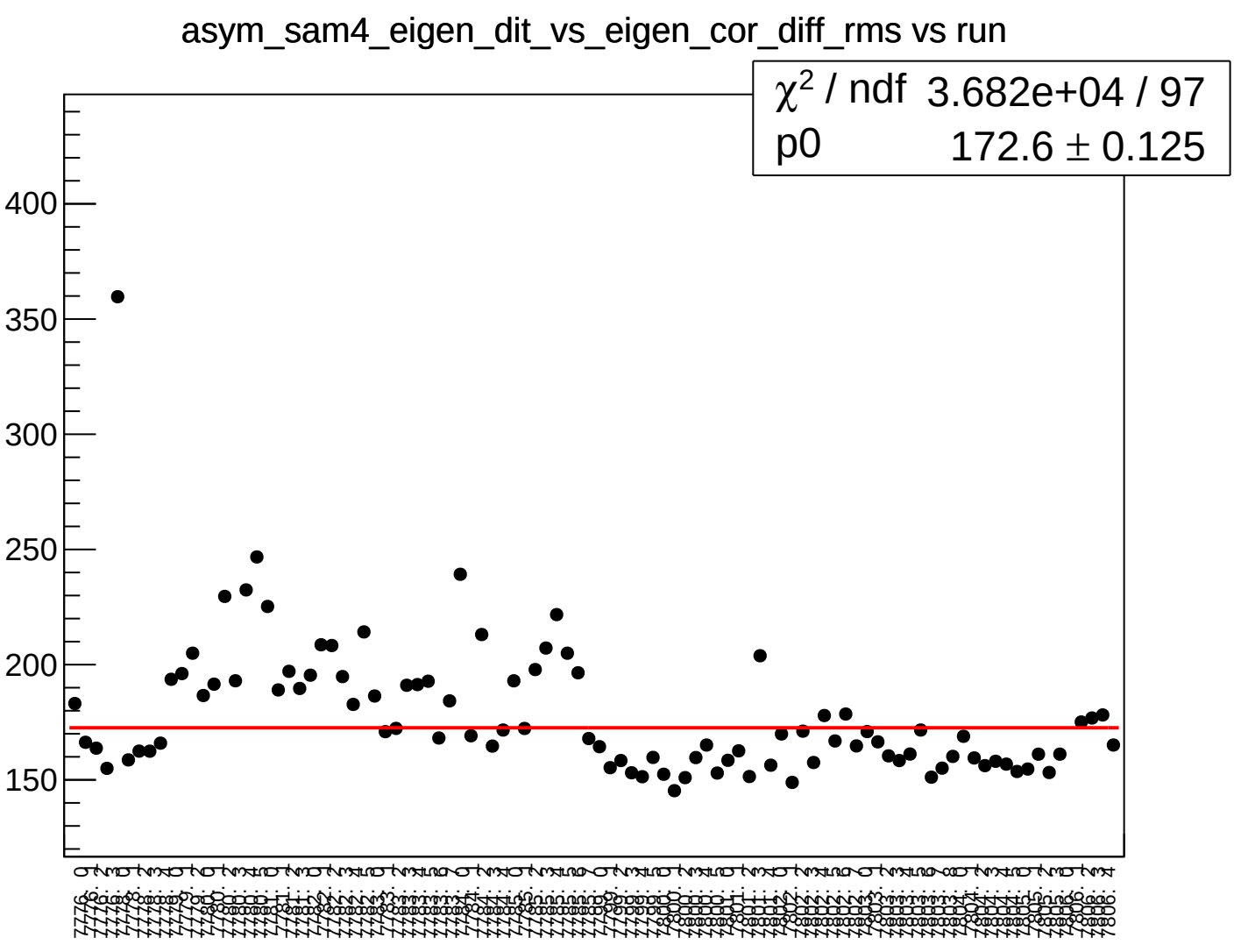

pull1D
Entries 98
Mean −0.02584
Std Dev 0.8171

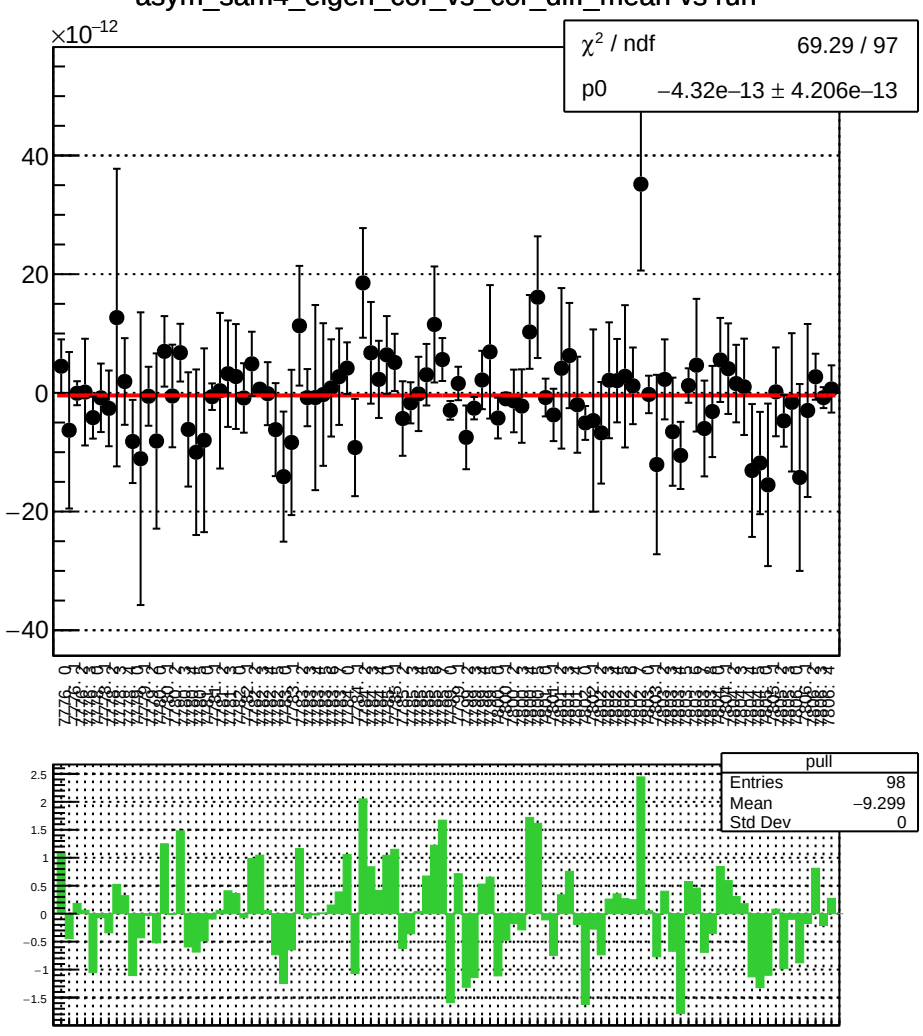

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.439e+05 / 97
p0 0.007614 ± 6.437e−06
0.03
0.025
0.02
0.015
0.01
0.005

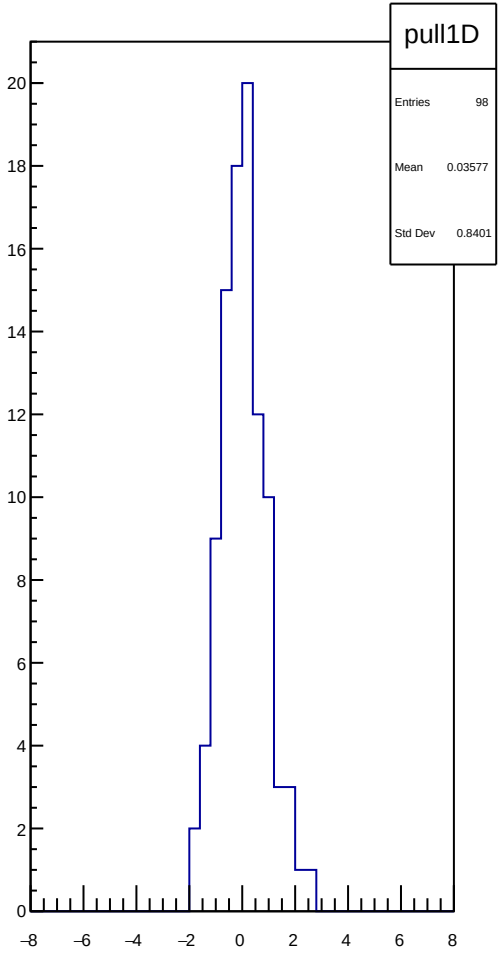

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.48 / 97
p0 −0.1055 ± 0.1768
pull
Entries 98
Mean 35.93
Std Dev 58.75
pull1D
Entries 98
Mean 0.02495
Std Dev 0.9816

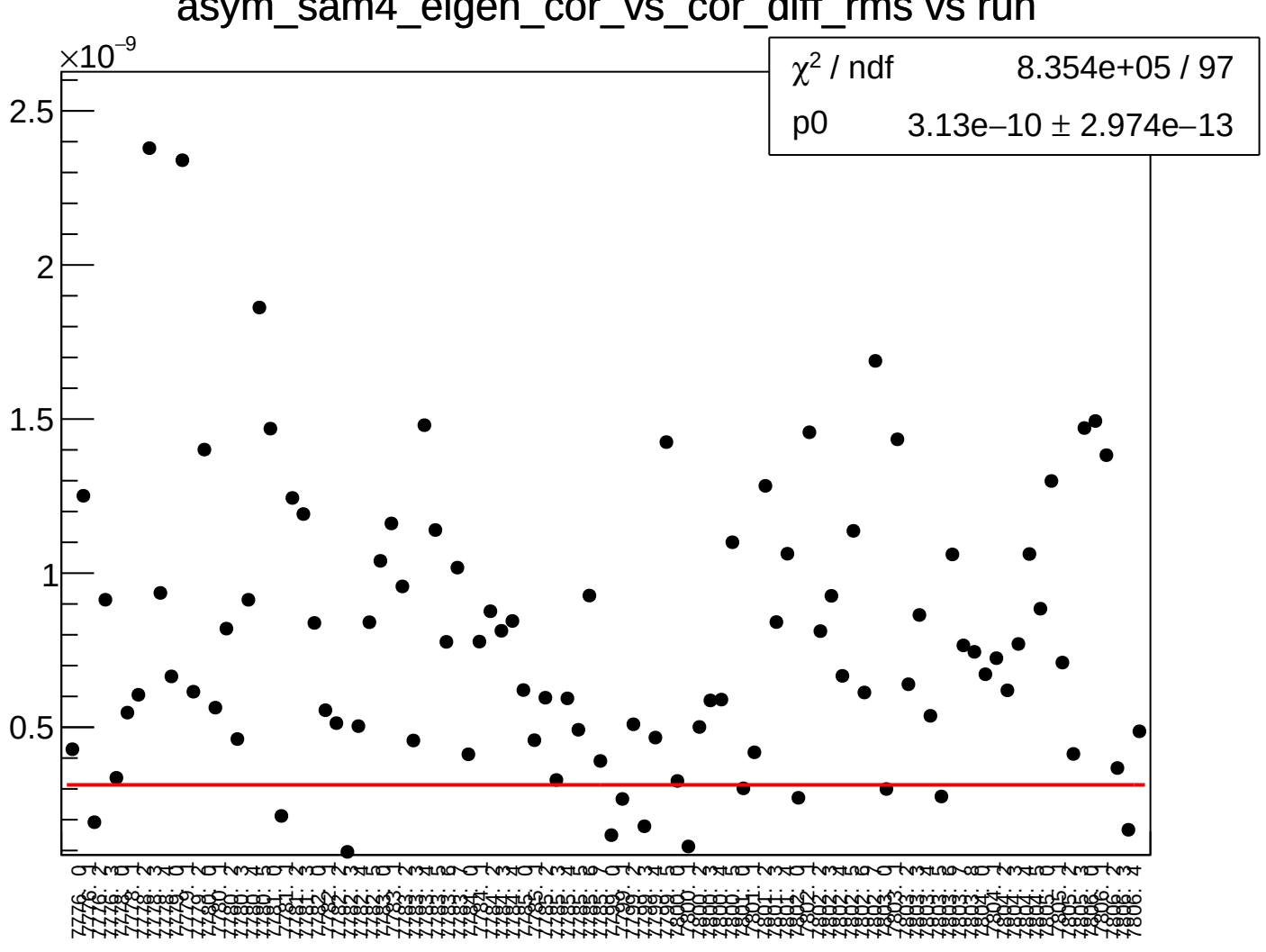

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.682e+04 / 97
p0 172.6 ± 0.125
400
350
300
250
200
150

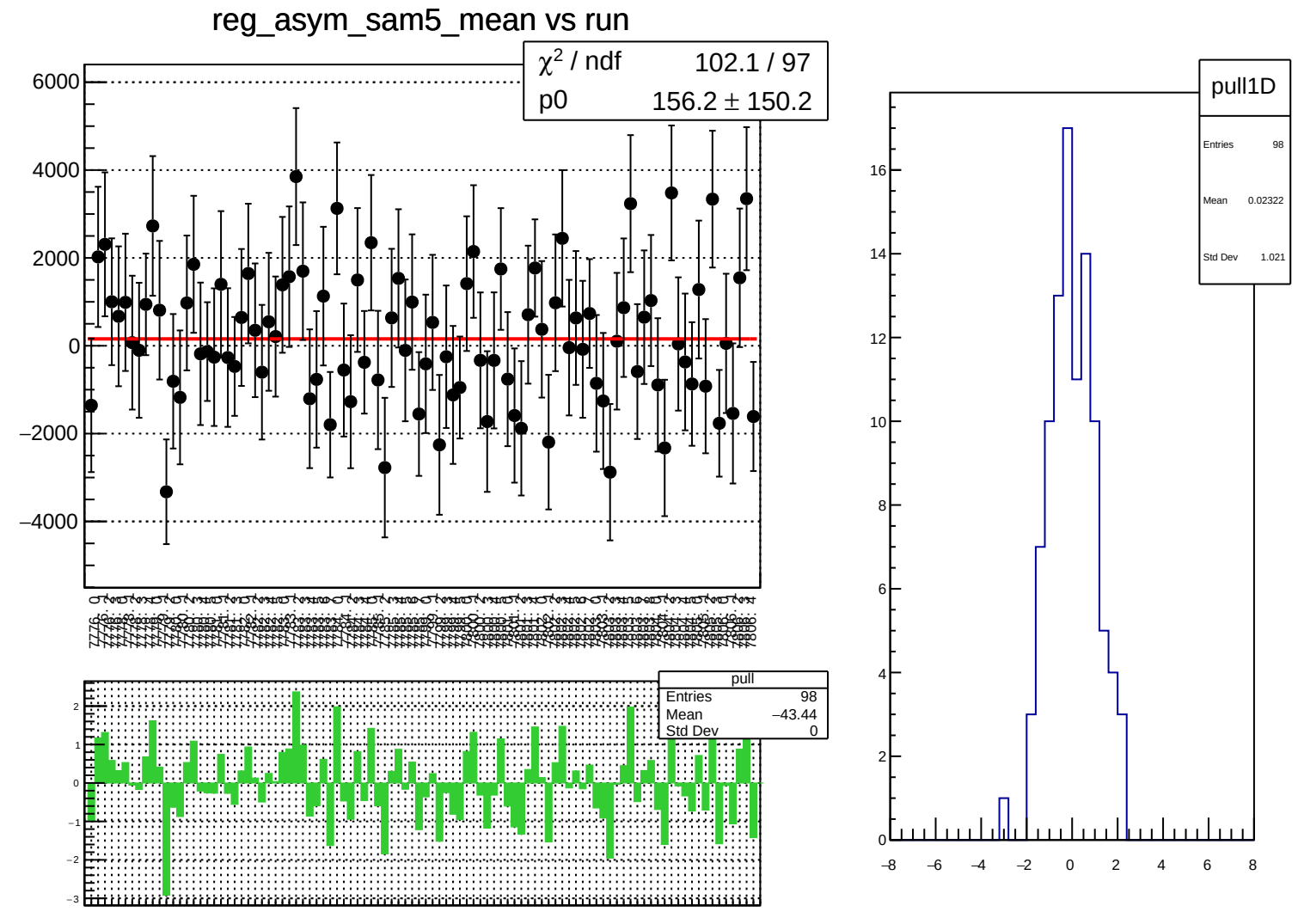

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.48 / 97
p0 −0.1055 ± 0.1768
pull
Entries 98
Mean 35.93
Std Dev 58.75
pull1D
Entries 98
Mean 0.02495
Std Dev 0.9816

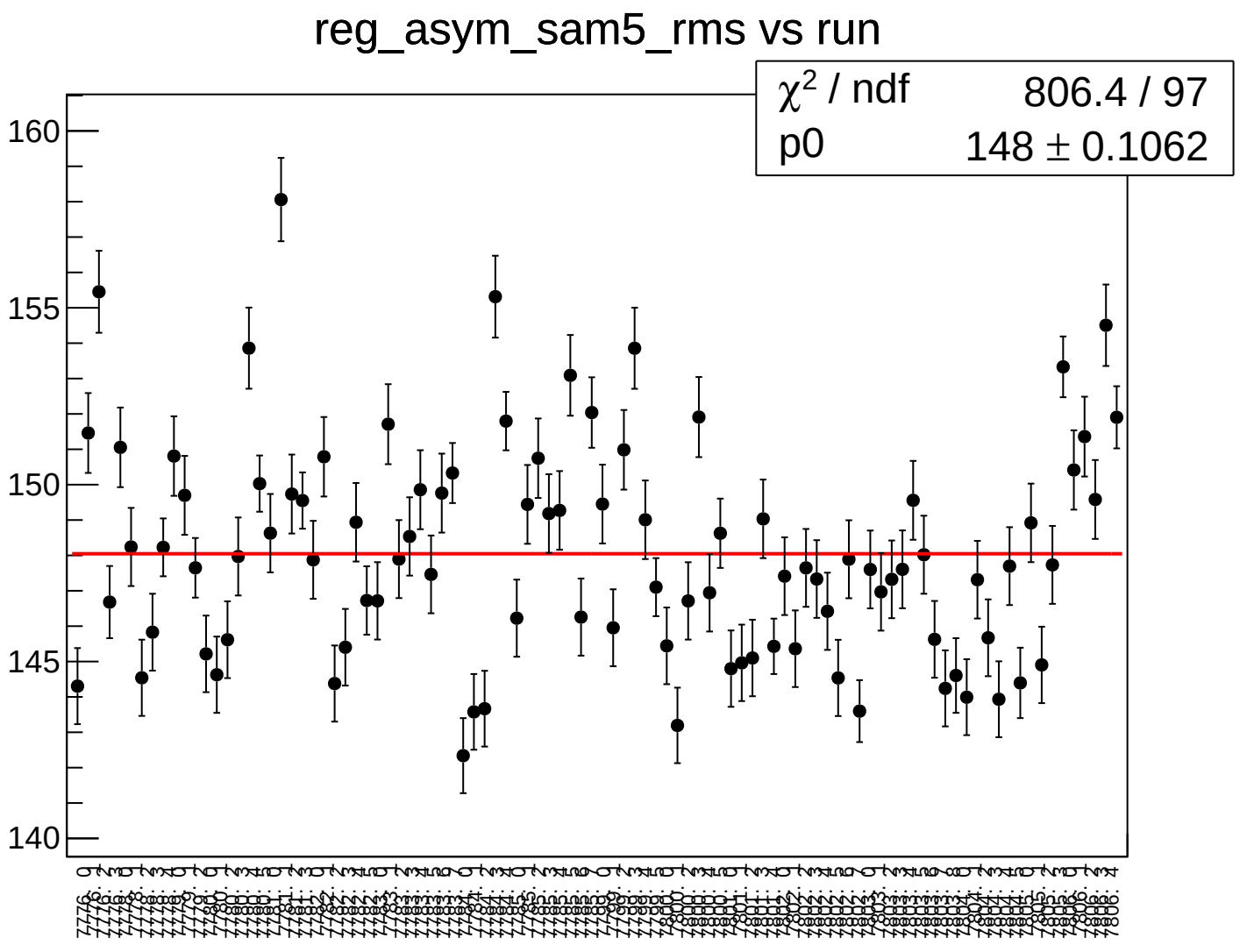

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.682e+04 / 97
p0 172.6 ± 0.125
400
350
300
250
200
150

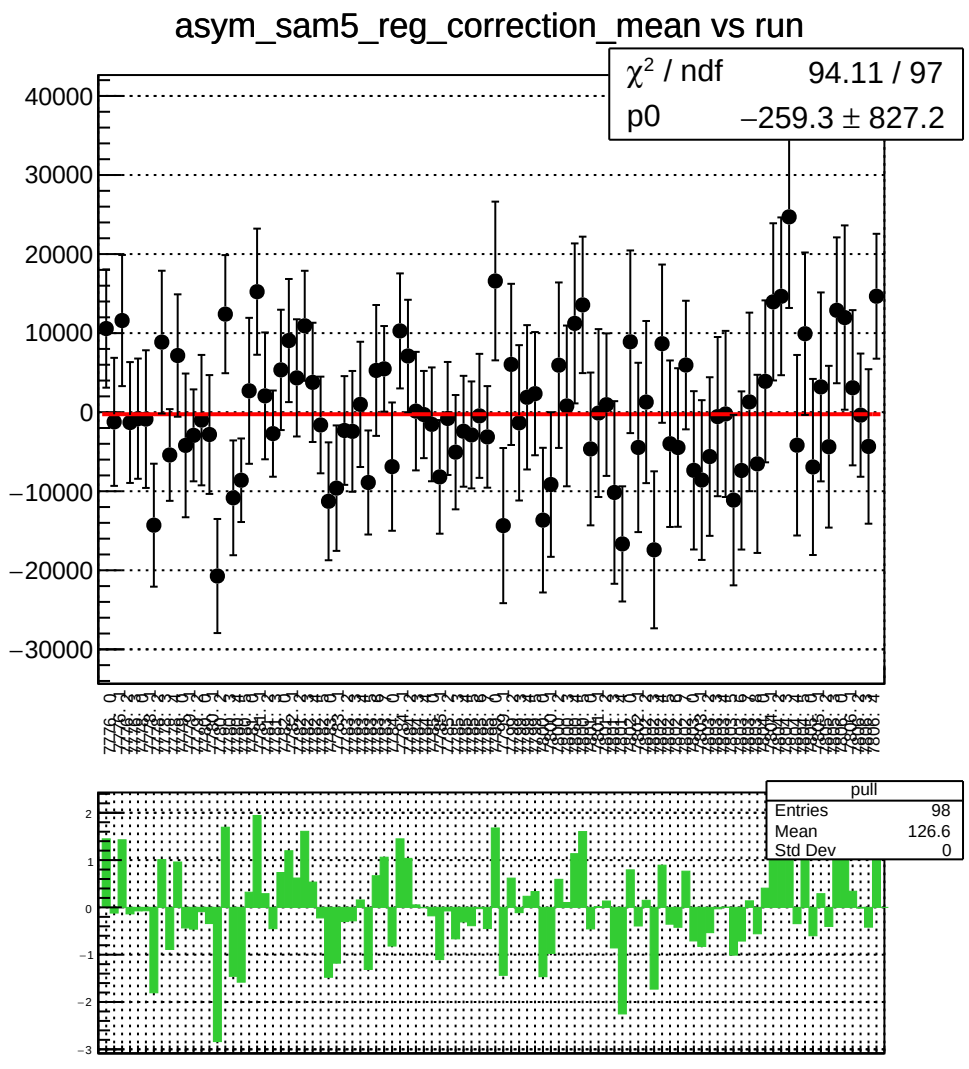

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.29 / 97
p0 −4.32e−13 ± 4.206e−13
40
20
0
−20
−40
pull
Entries 98
Mean −9.299
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

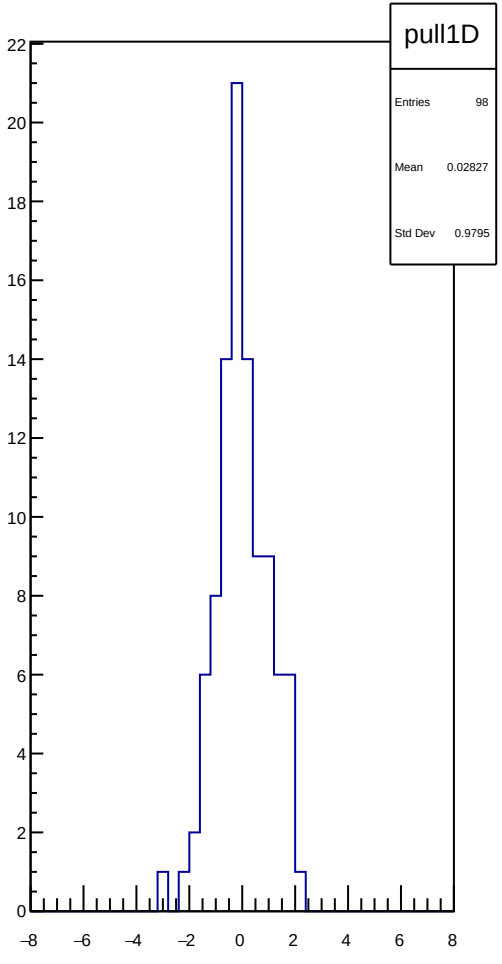

pull1D
Entries 98
Mean 0.03577
Std Dev 0.8401
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

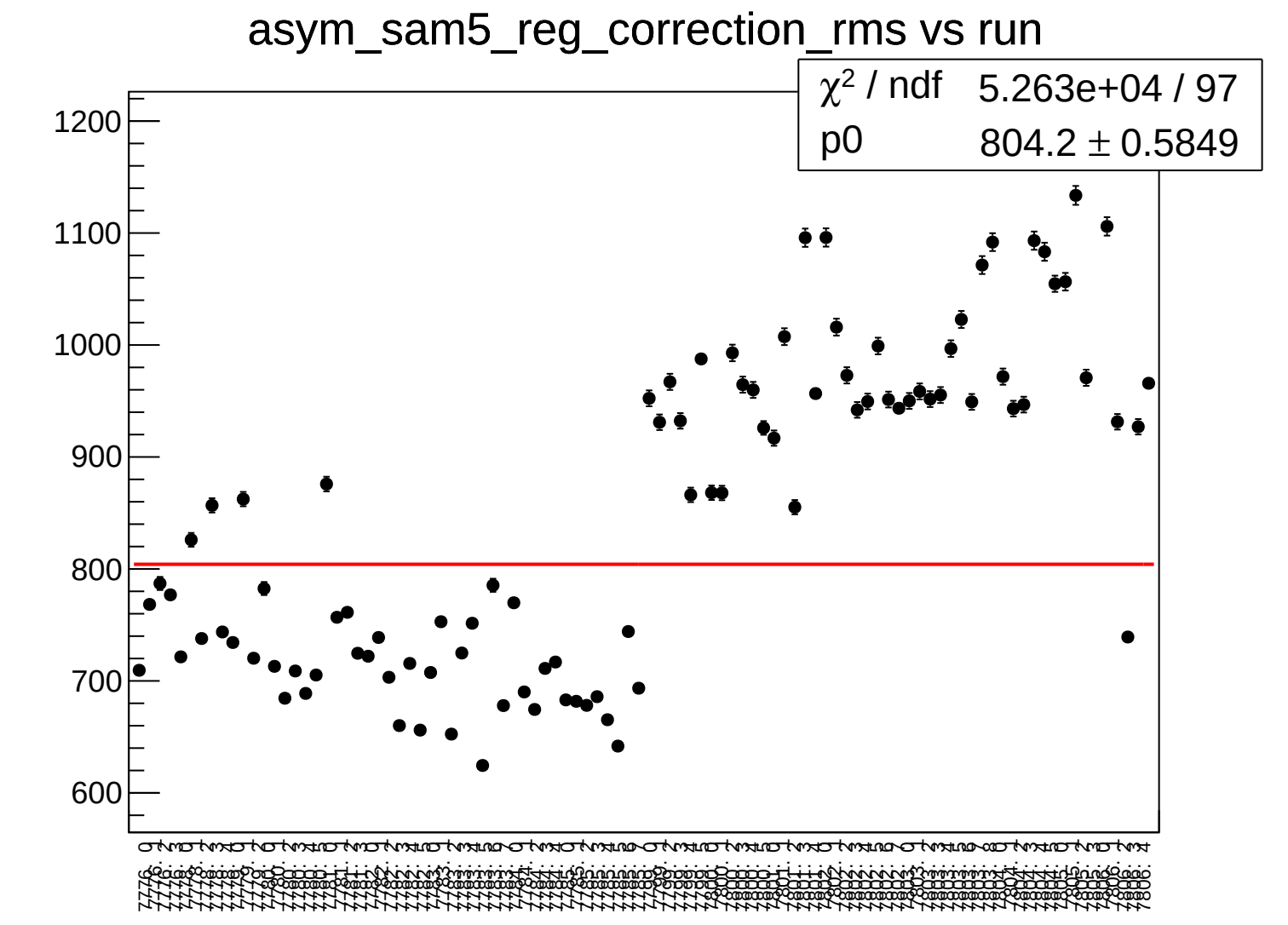

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.354e+05 / 97
p0 3.13e−10 ± 2.974e−13
2.5
2
1.5
1
0.5

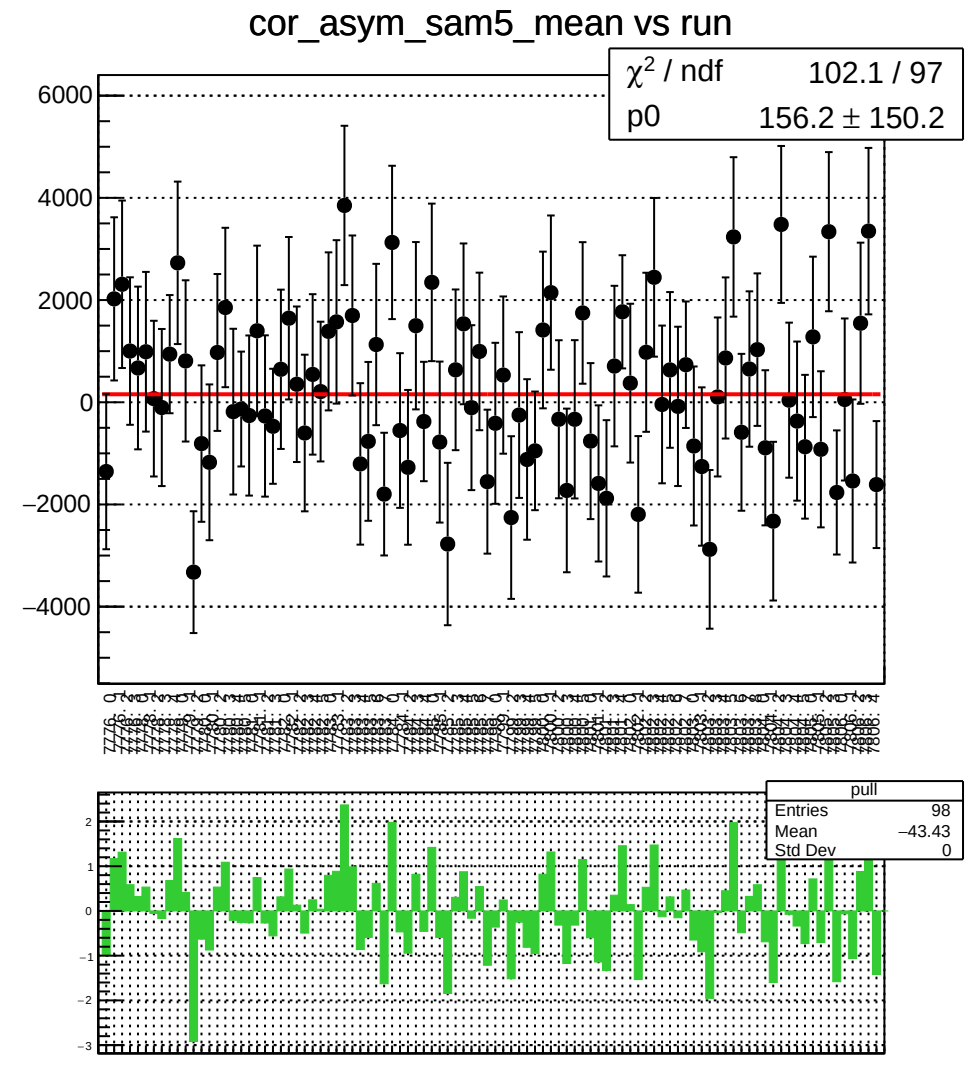

reg_asym_sam5_mean vs run
χ² / ndf 102.1 / 97
p0 156.2 ± 150.2
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean −43.44
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.02322
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

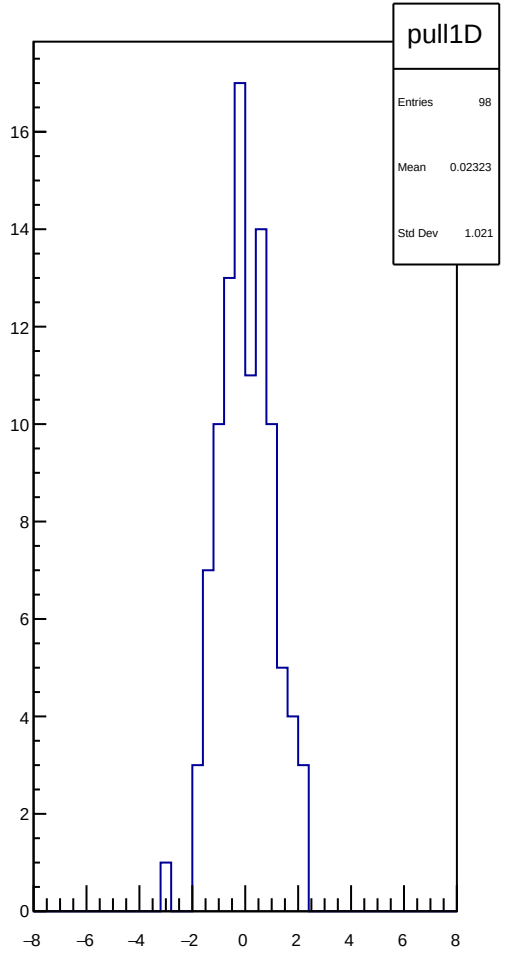

reg_asym_sam5_rms vs run
χ² / ndf 806.4 / 97
p0 148 ± 0.1062
160
155
150
145
140

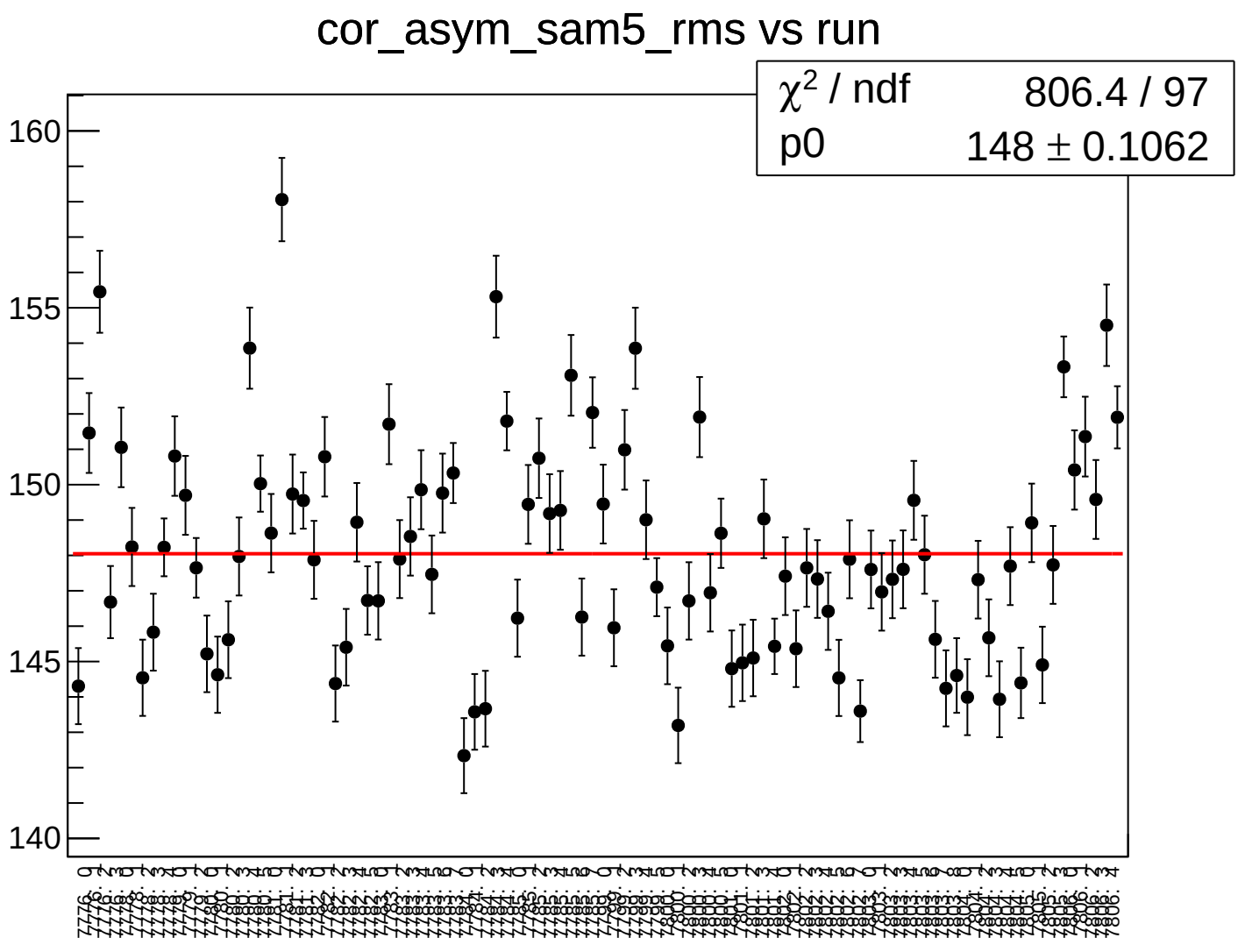

asym_sam5_reg_correction_mean vs run
χ² / ndf 94.11 / 97
p0 −259.3 ± 827.2
pull
Entries 98
Mean 126.6
Std Dev 0

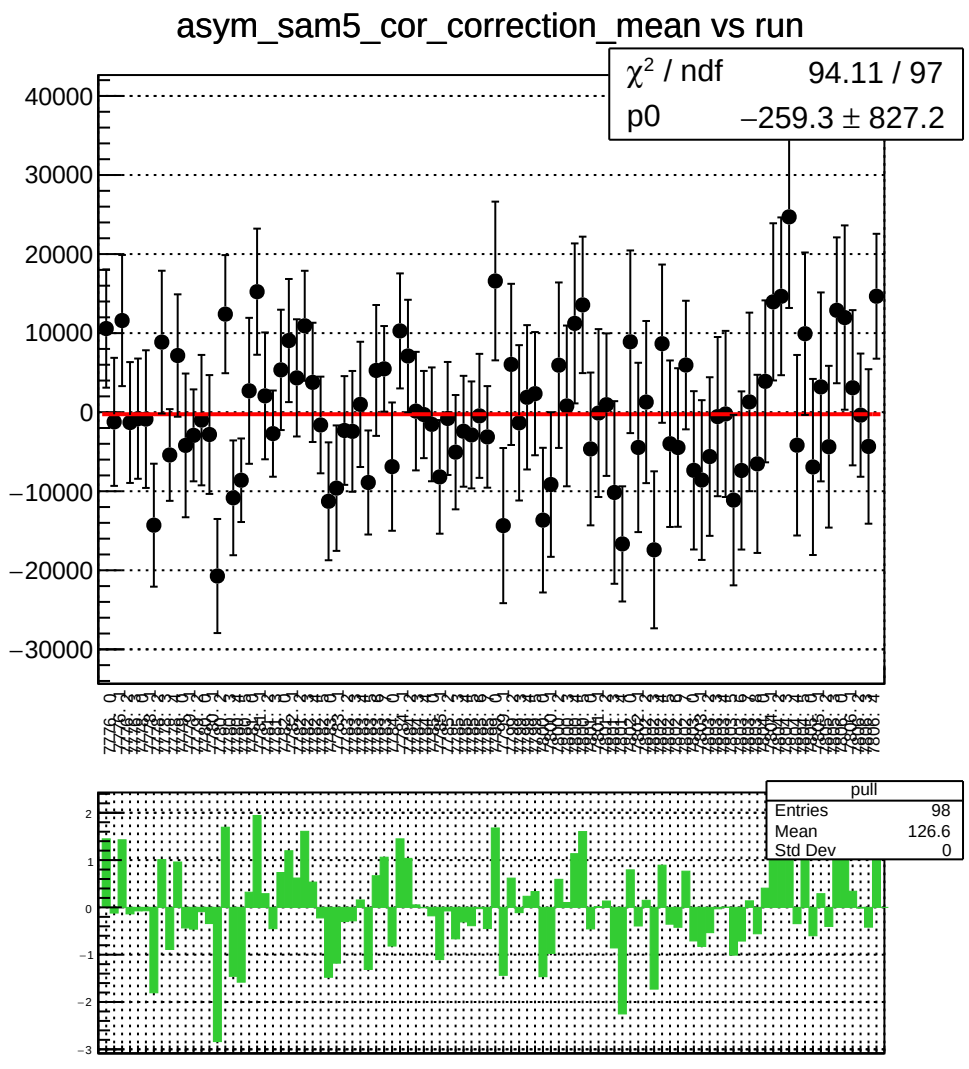

pull1D
Entries 98
Mean 0.02827
Std Dev 0.9795

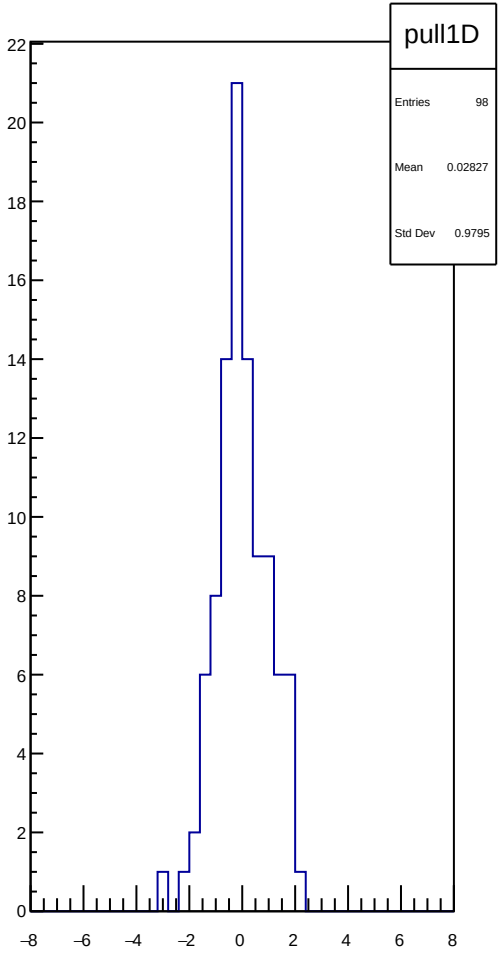

asym_sam5_reg_correction_rms vs run
χ² / ndf 5.263e+04 / 97
p0 804.2 ± 0.5849
1200
1100
1000
900
800
700
600

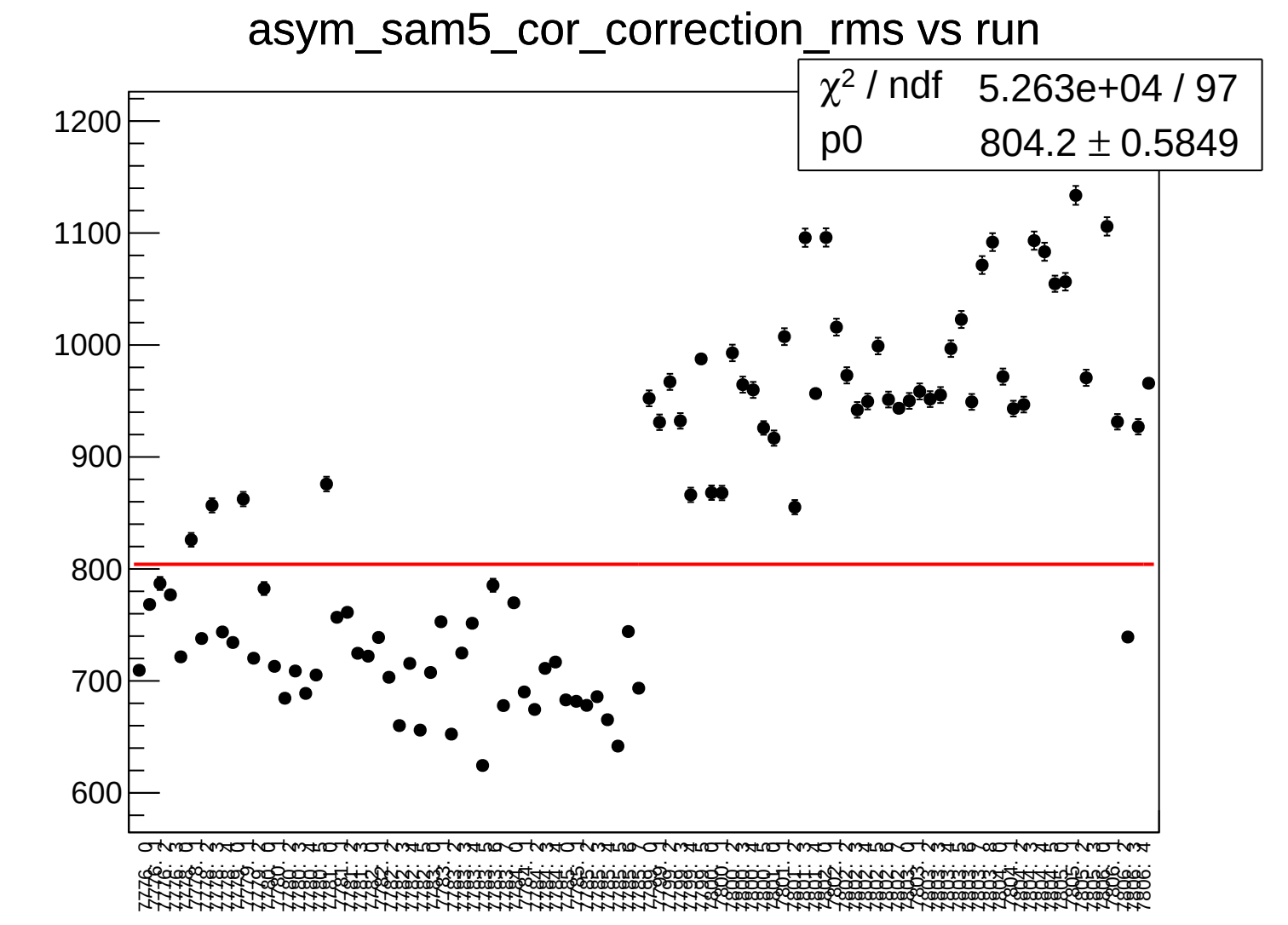

cor_asym_sam5_mean vs run
χ² / ndf 102.1 / 97
p0 156.2 ± 150.2
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean −43.43
Std Dev 0
2
1
0
−1
−2
−3

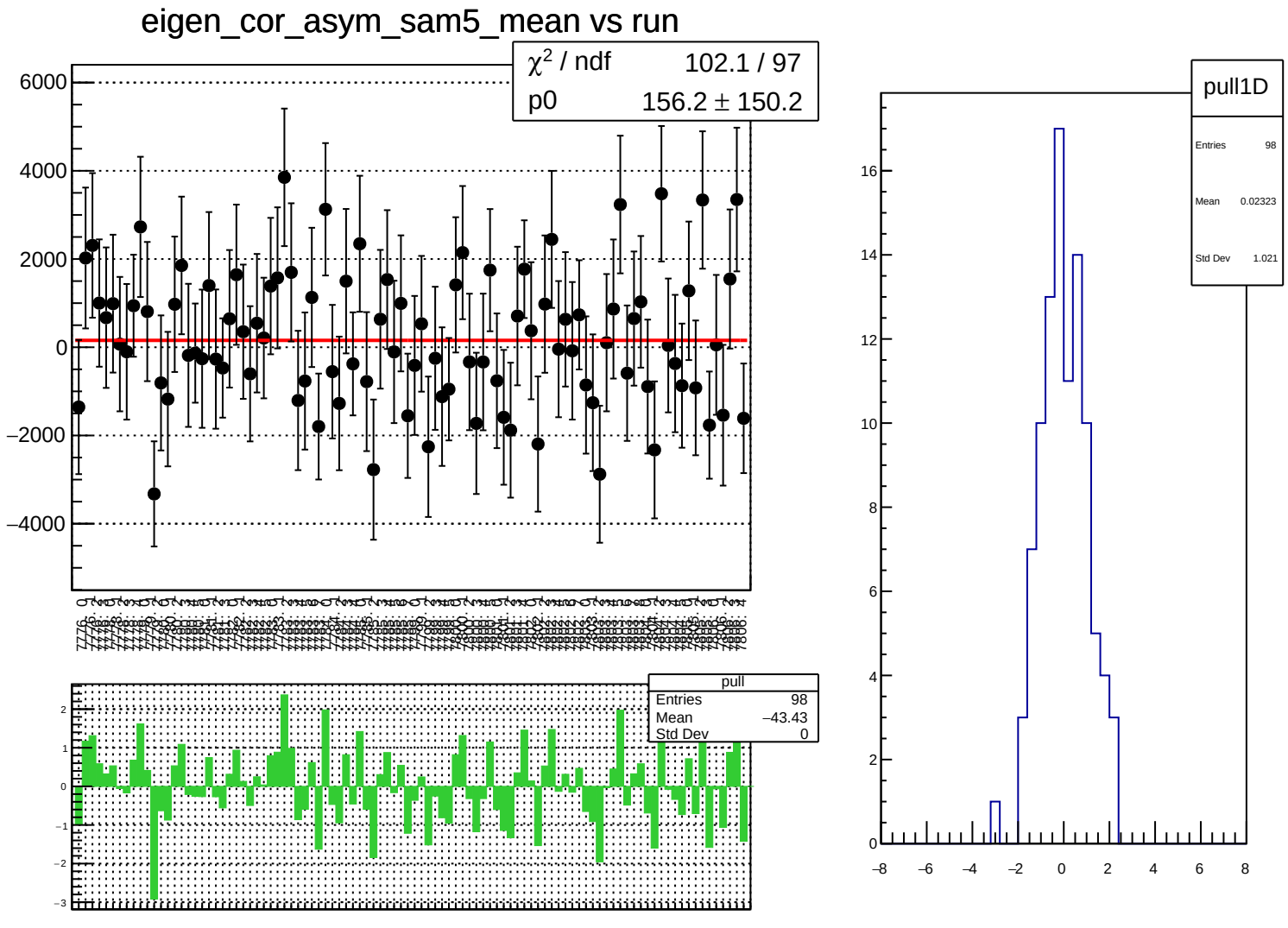

pull1D
Entries 98
Mean 0.02323
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

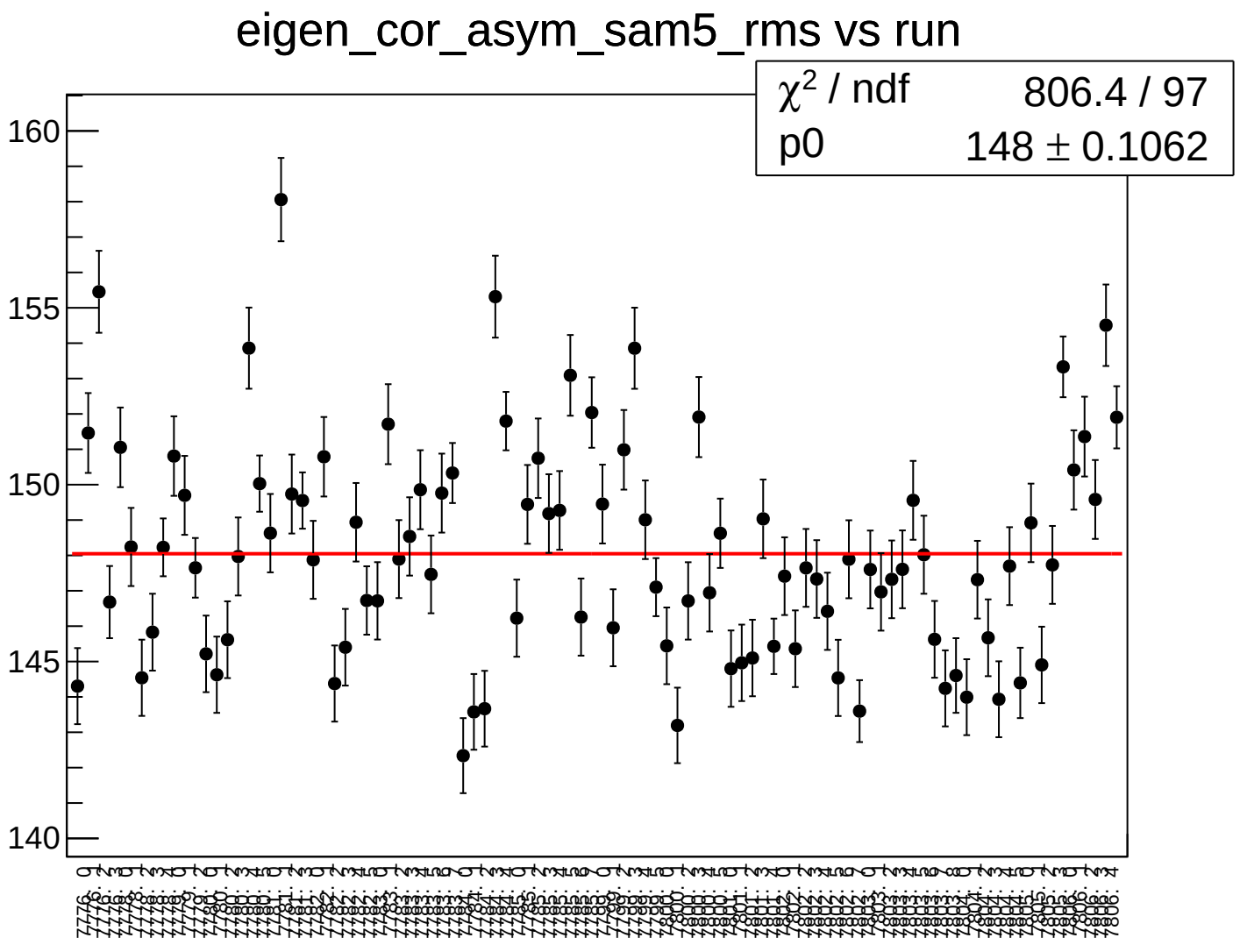

cor_asym_sam5_rms vs run
χ² / ndf 806.4 / 97
p0 148 ± 0.1062
160
155
150
145
140

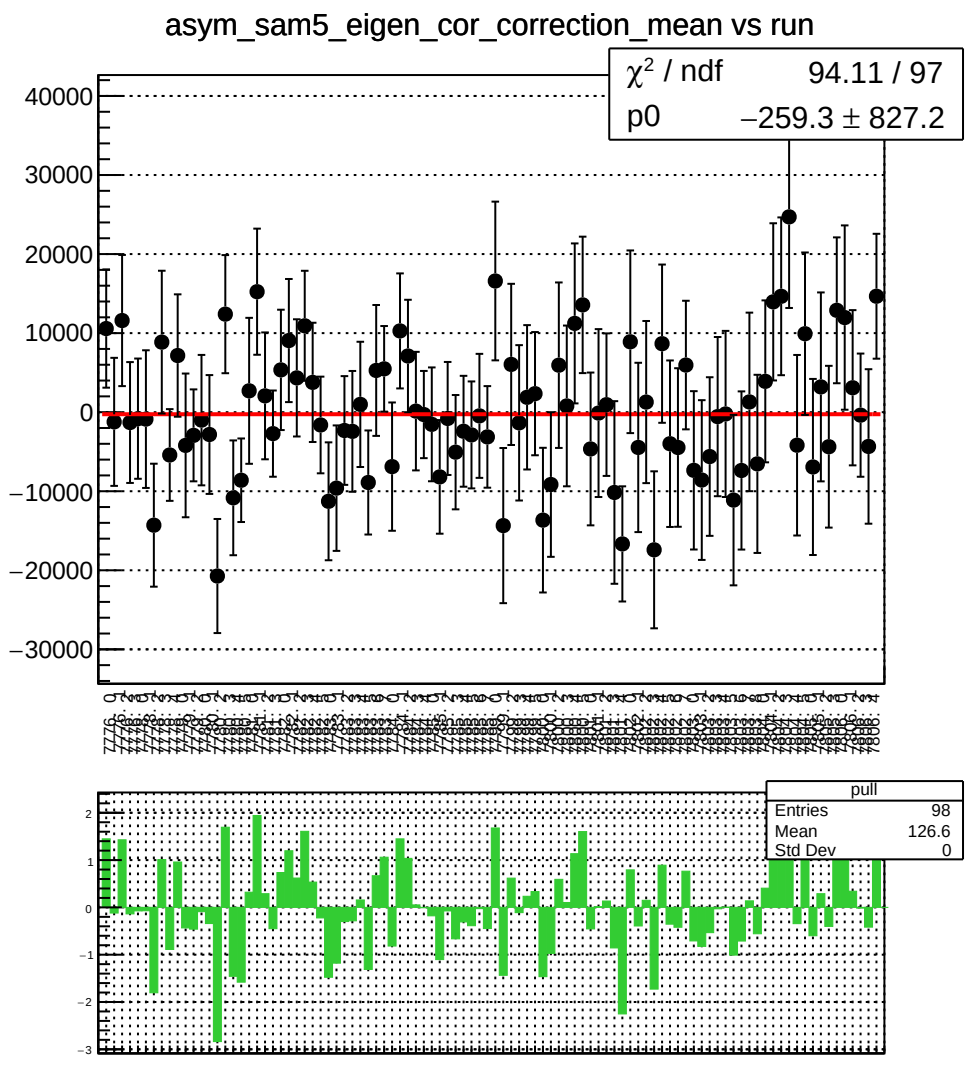

asym_sam5_cor_correction_mean vs run
χ² / ndf 94.11 / 97
p0 −259.3 ± 827.2
pull
Entries 98
Mean 126.6
Std Dev 0

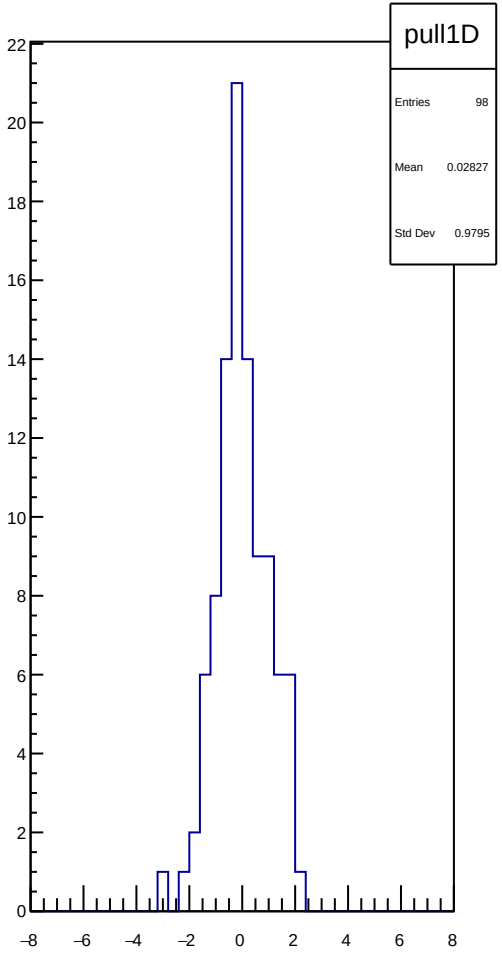

pull1D
Entries 98
Mean 0.02827
Std Dev 0.9795

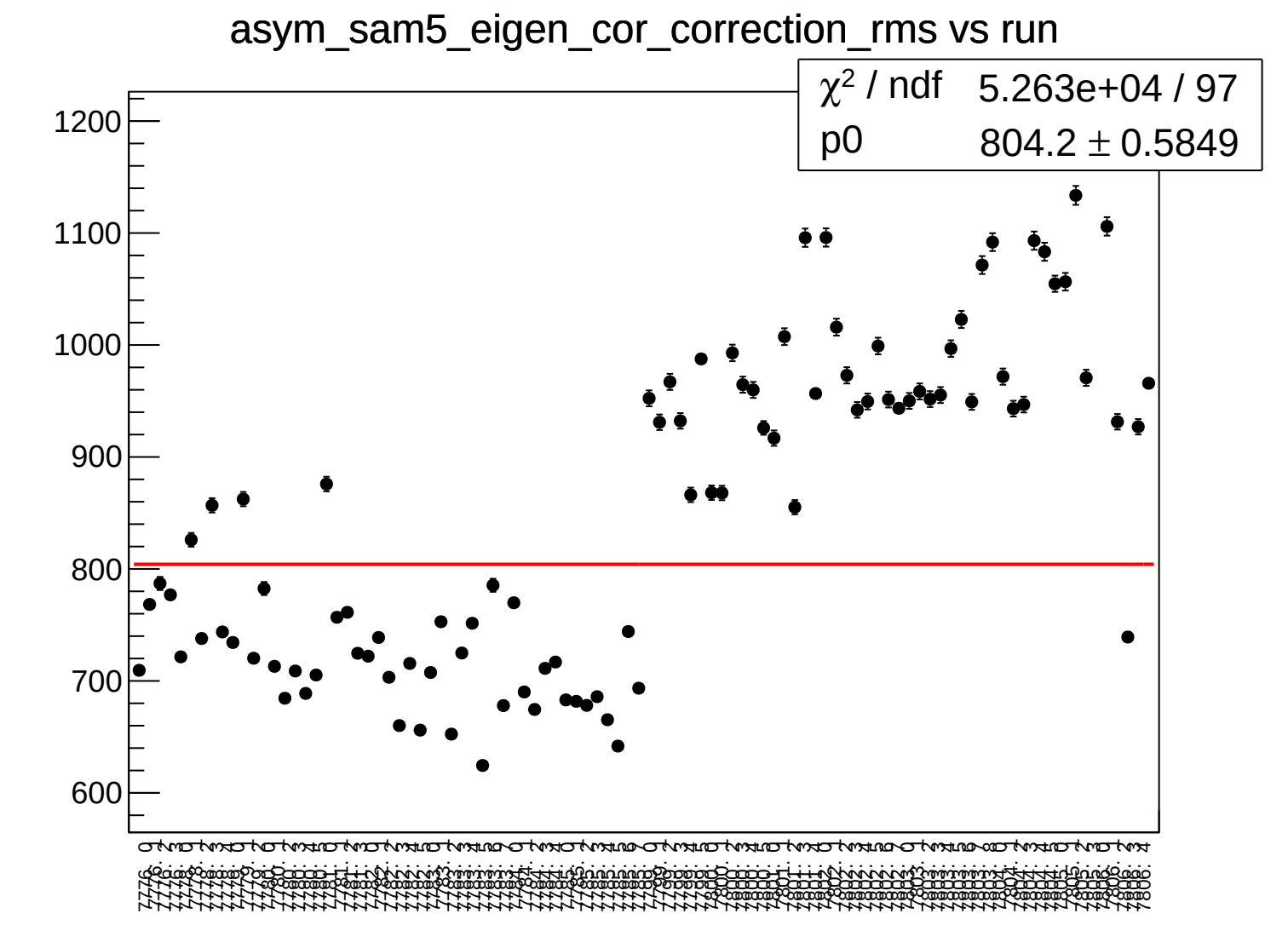

asym_sam5_cor_correction_rms vs run
χ² / ndf 5.263e+04 / 97
p0 804.2 ± 0.5849
1200
1100
1000
900
800
700
600

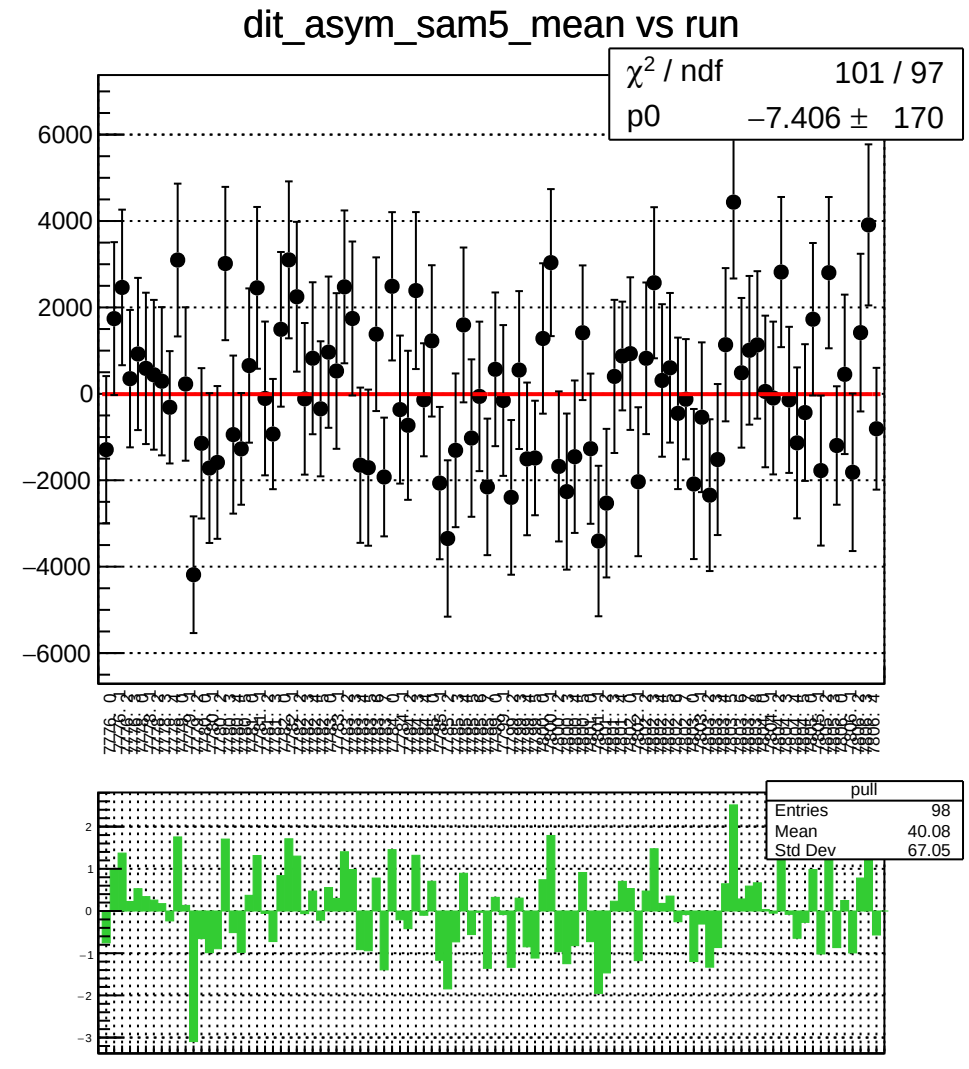

eigen_cor_asym_sam5_mean vs run
χ² / ndf 102.1 / 97
p0 156.2 ± 150.2
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean −43.43
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.02323
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

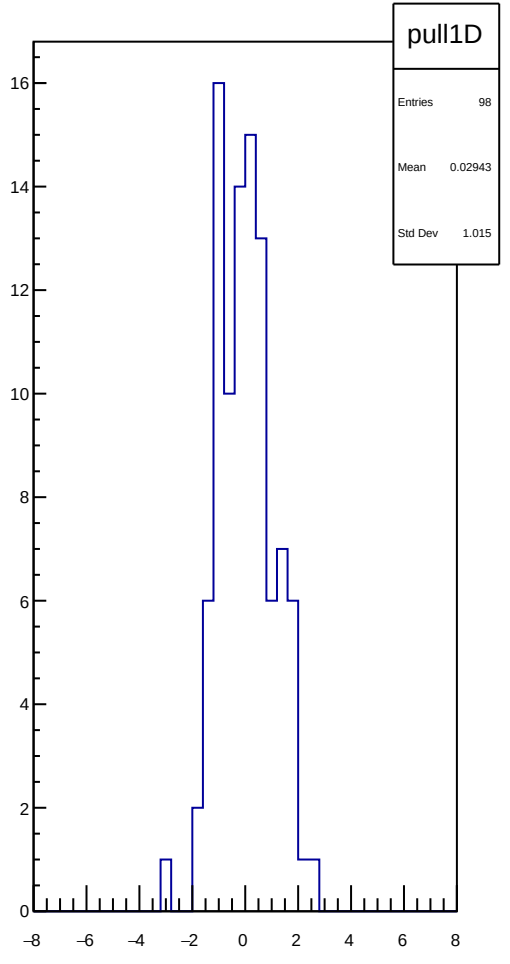

eigen_cor_asym_sam5_rms vs run
χ² / ndf 806.4 / 97
p0 148 ± 0.1062
160
155
150
145
140

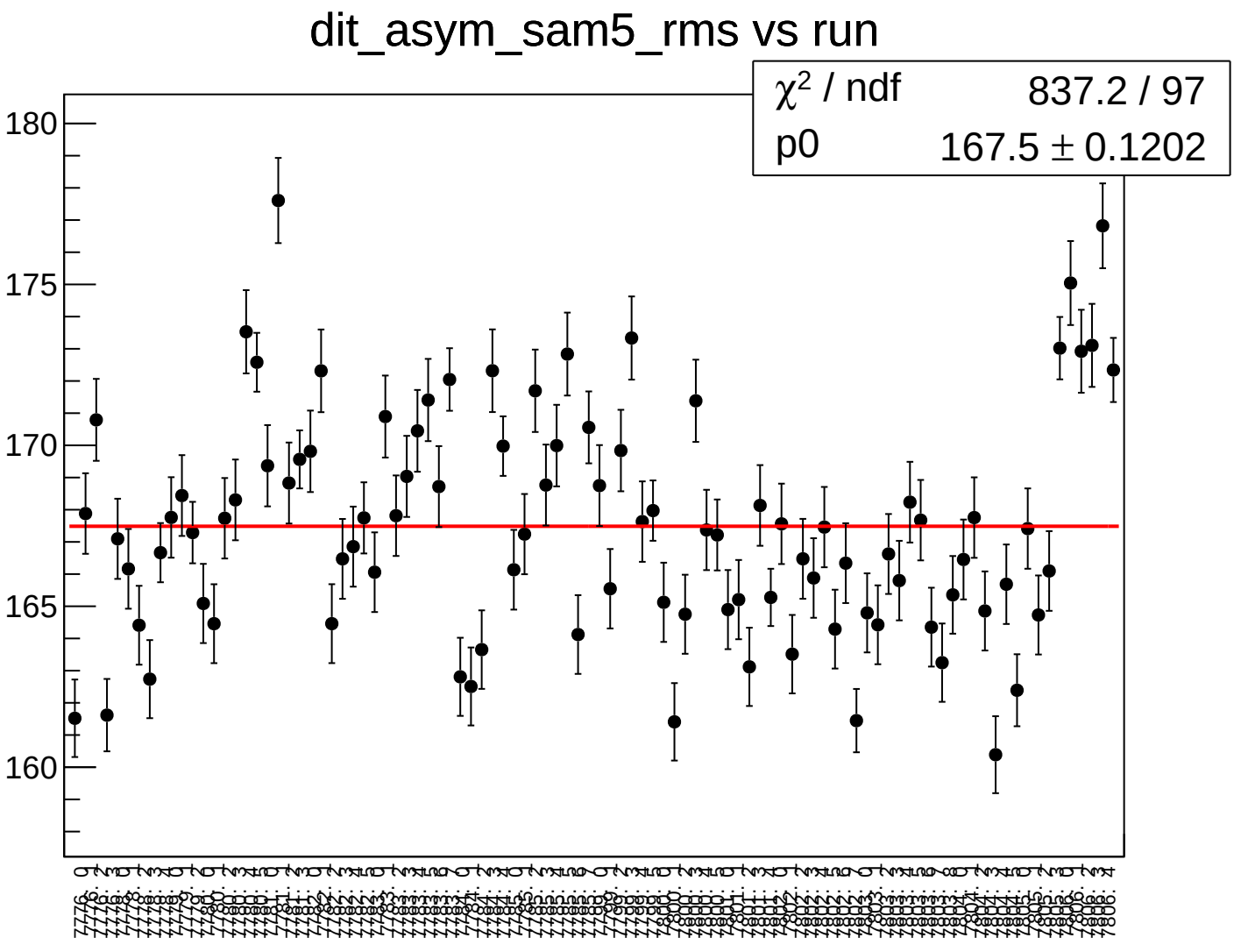

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 94.11 / 97
p0 −259.3 ± 827.2
pull
Entries 98
Mean 126.6
Std Dev 0

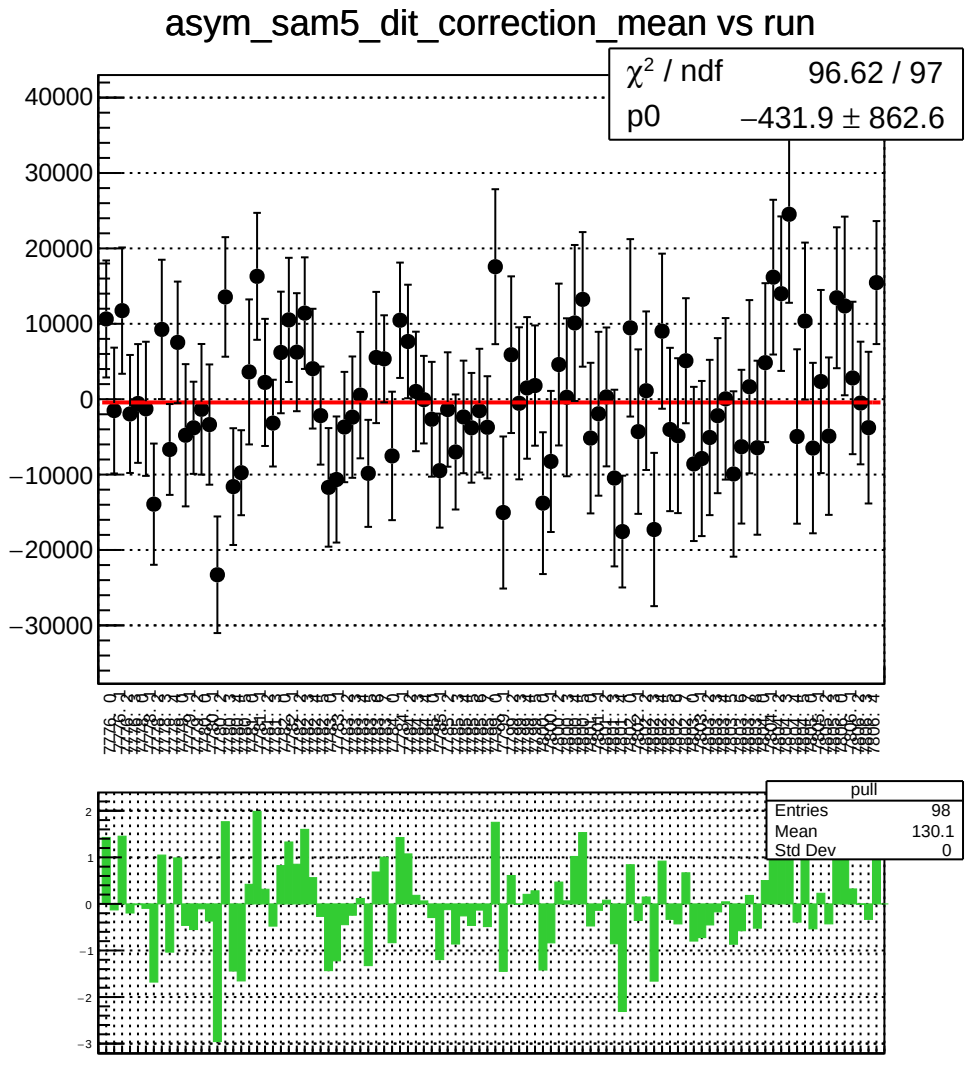

pull1D
Entries 98
Mean 0.02827
Std Dev 0.9795

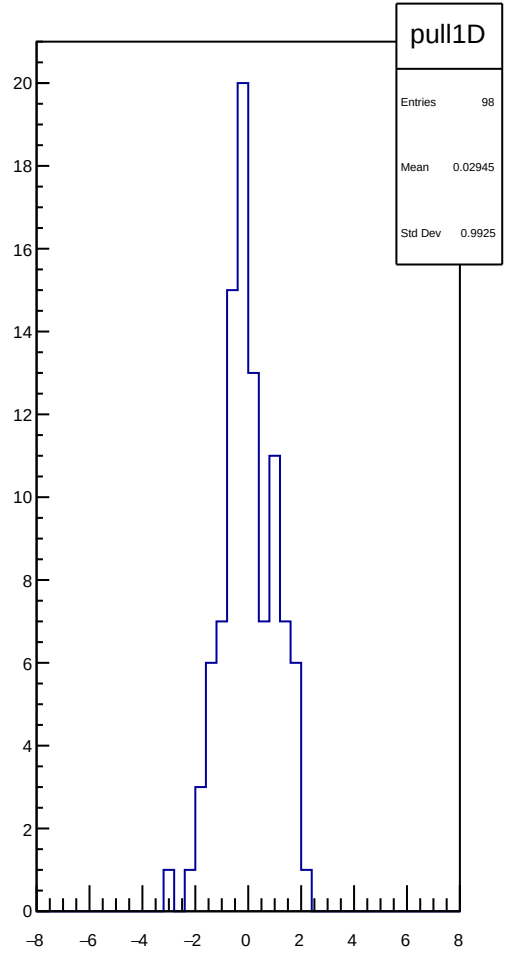

asym_sam5_eigen_cor_correction_rms vs run
χ^2 / ndf 5.263e+04 / 97
p0 804.2 ± 0.5849
1200
1100
1000
900
800
700
600

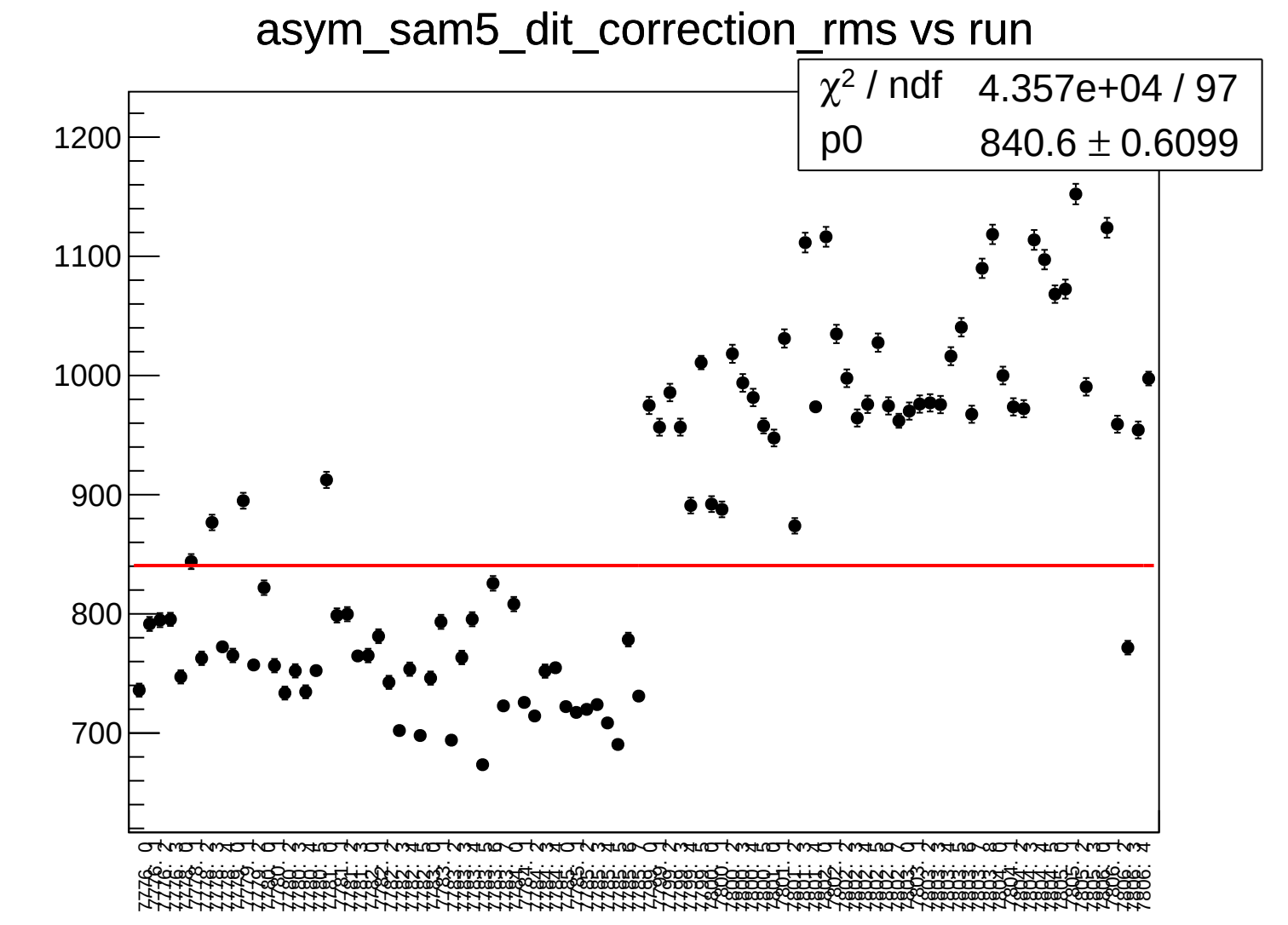

dit_asym_sam5_mean vs run
χ² / ndf 101 / 97
p0 −7.406 ± 170
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 40.08
Std Dev 67.05
2
1
0
−1
−2
−3

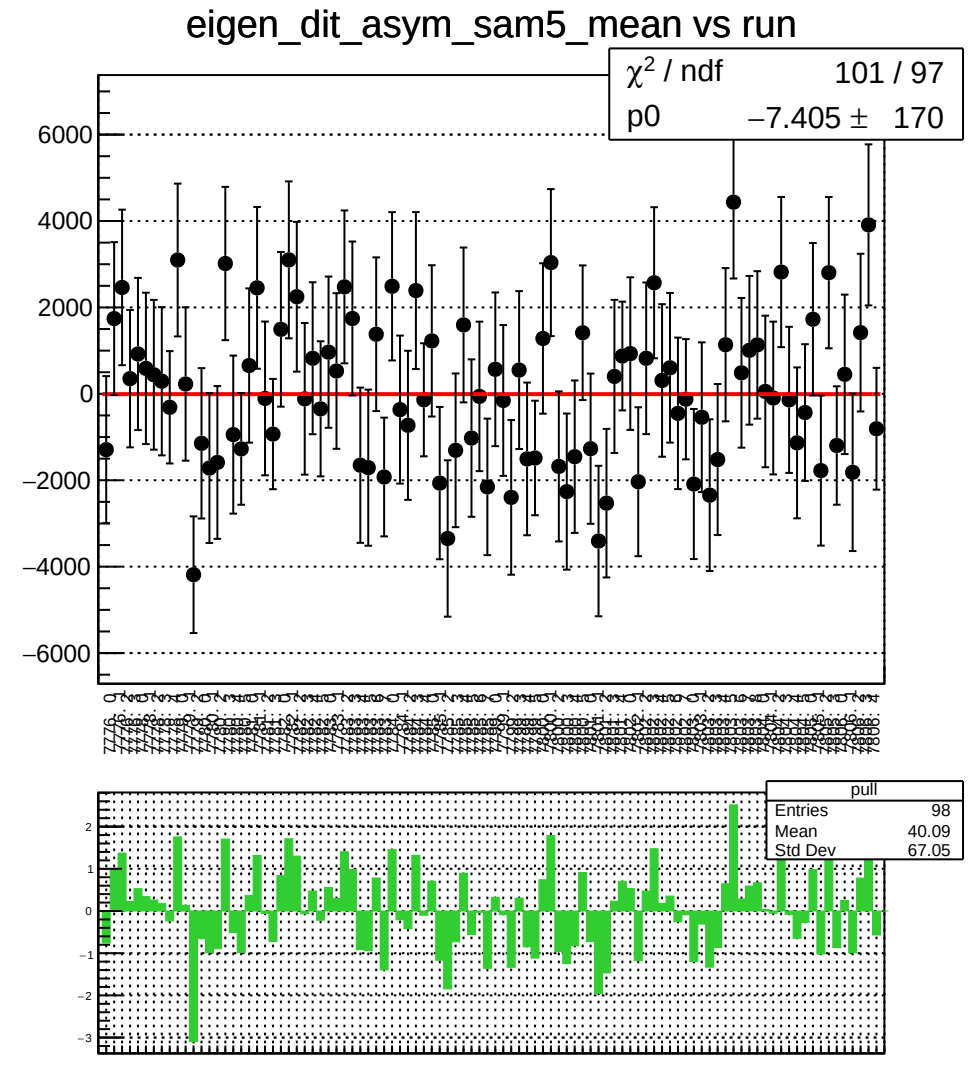

pull1D
Entries 98
Mean 0.02943
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

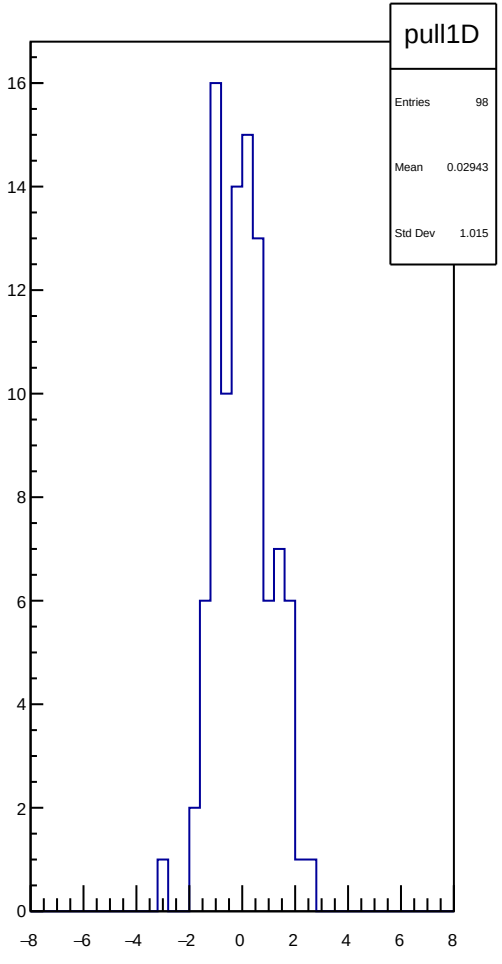

dit_asym_sam5_rms vs run
χ² / ndf 837.2 / 97
p0 167.5 ± 0.1202
180
175
170
165
160

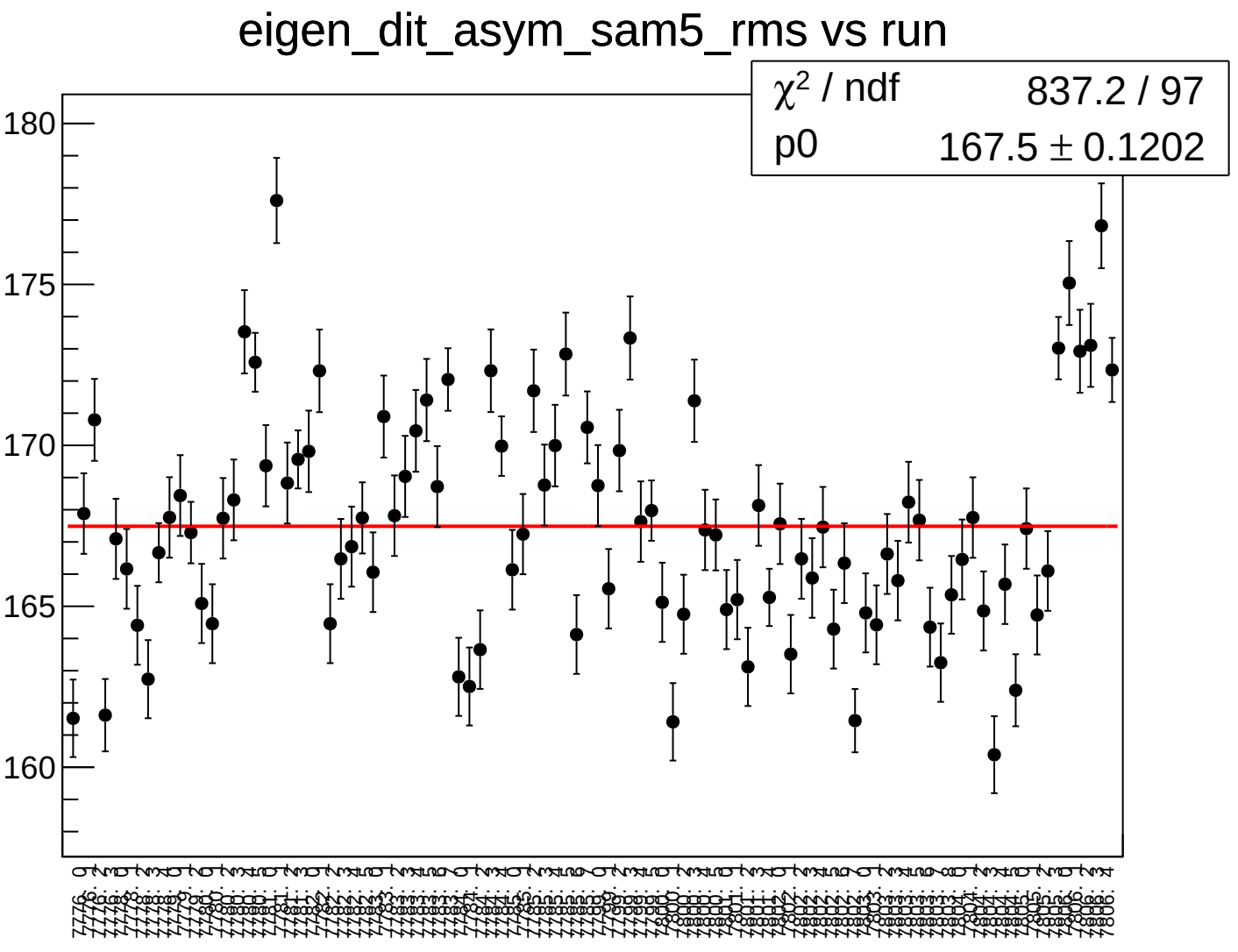

asym_sam5_dit_correction_mean vs run
χ² / ndf 96.62 / 97
p0 −431.9 ± 862.6
pull
Entries 98
Mean 130.1
Std Dev 0

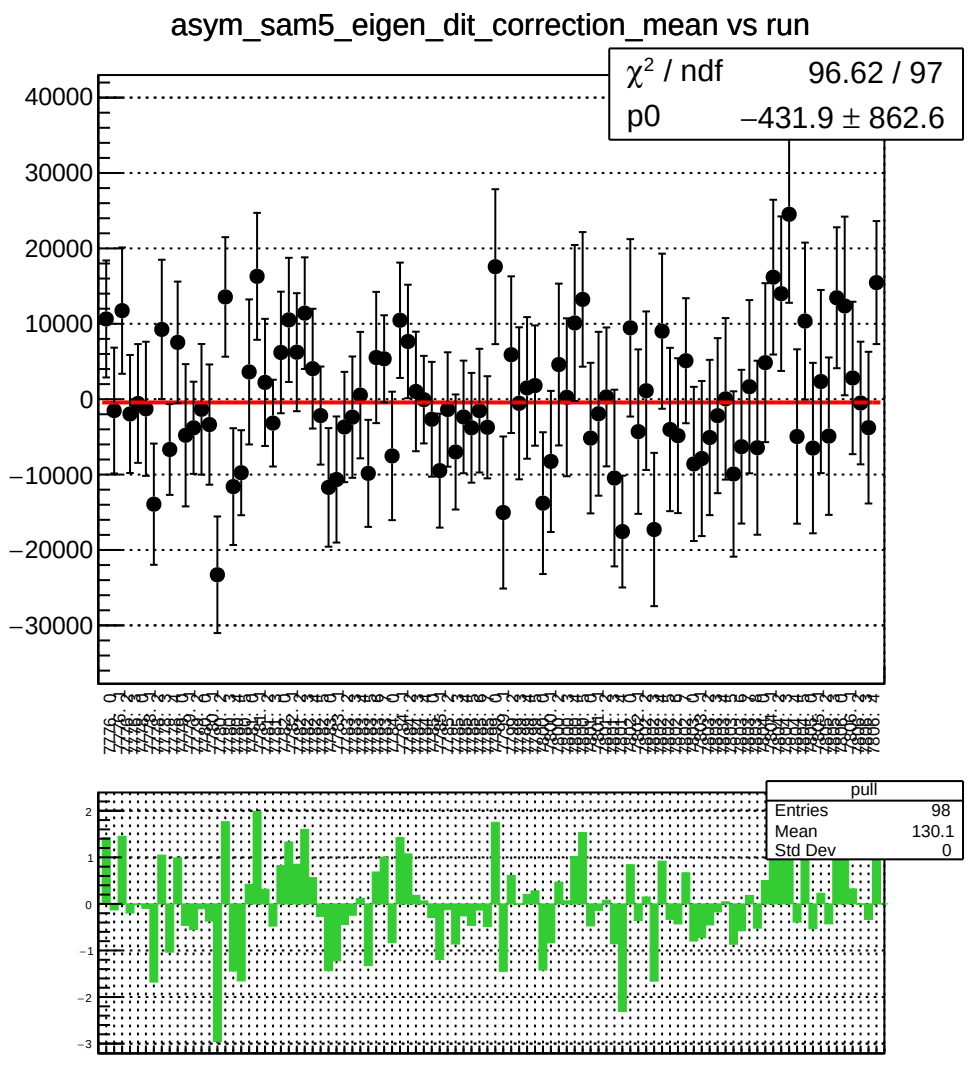

pull1D
Entries 98
Mean 0.02945
Std Dev 0.9925

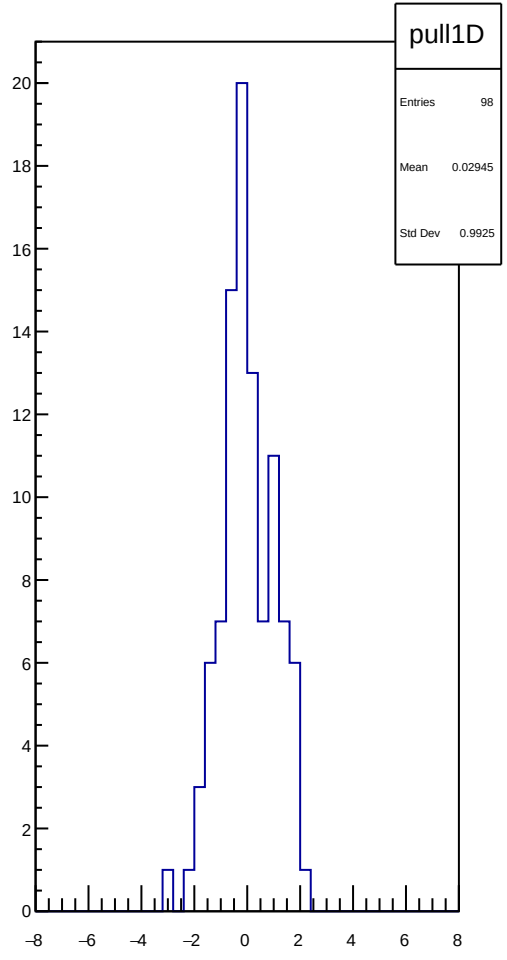

asym_sam5_dit_correction_rms vs run
χ² / ndf 4.357e+04 / 97
p0 840.6 ± 0.6099
1200
1100
1000
900
800
700

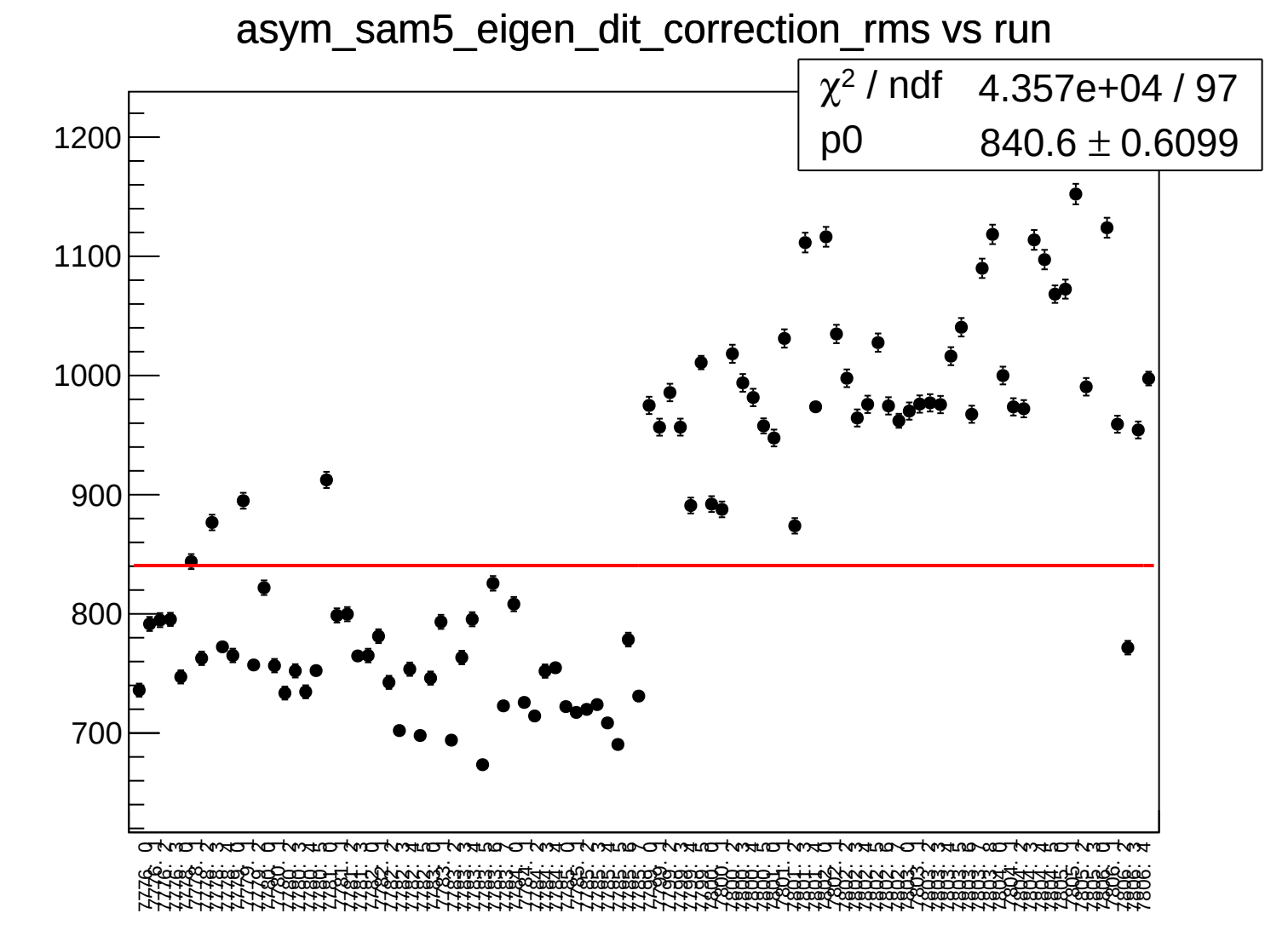

eigen_dit_asym_sam5_mean vs run
χ² / ndf 101 / 97
p0 −7.405 ± 170
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 40.09
Std Dev 67.05
2
1
0
−1
−2
−3

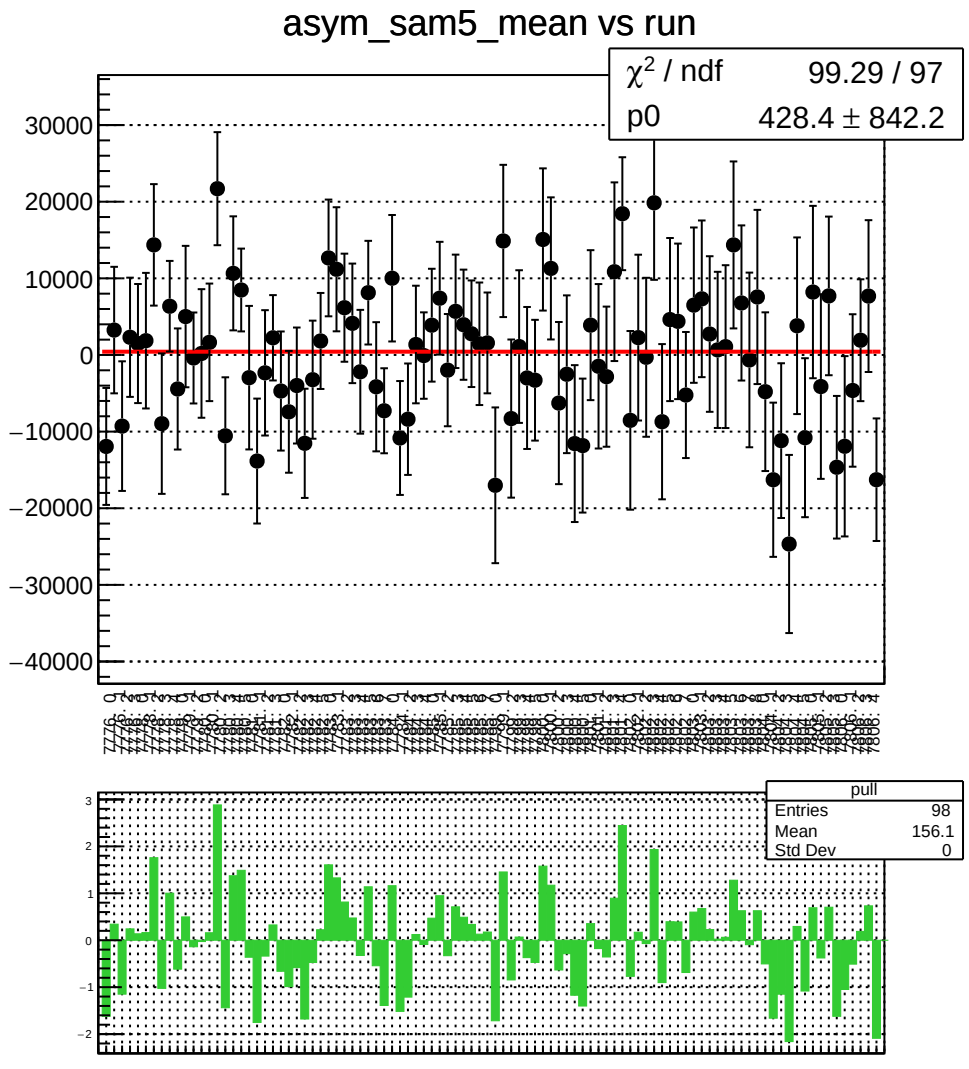

pull1D
Entries 98
Mean 0.02943
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

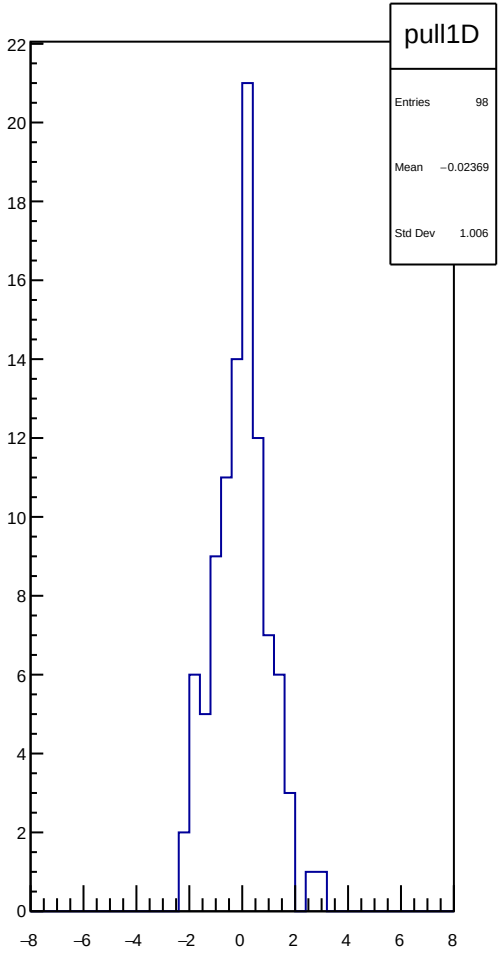

eigen_dit_asym_sam5_rms vs run
χ² / ndf 837.2 / 97
p0 167.5 ± 0.1202
180
175
170
165
160

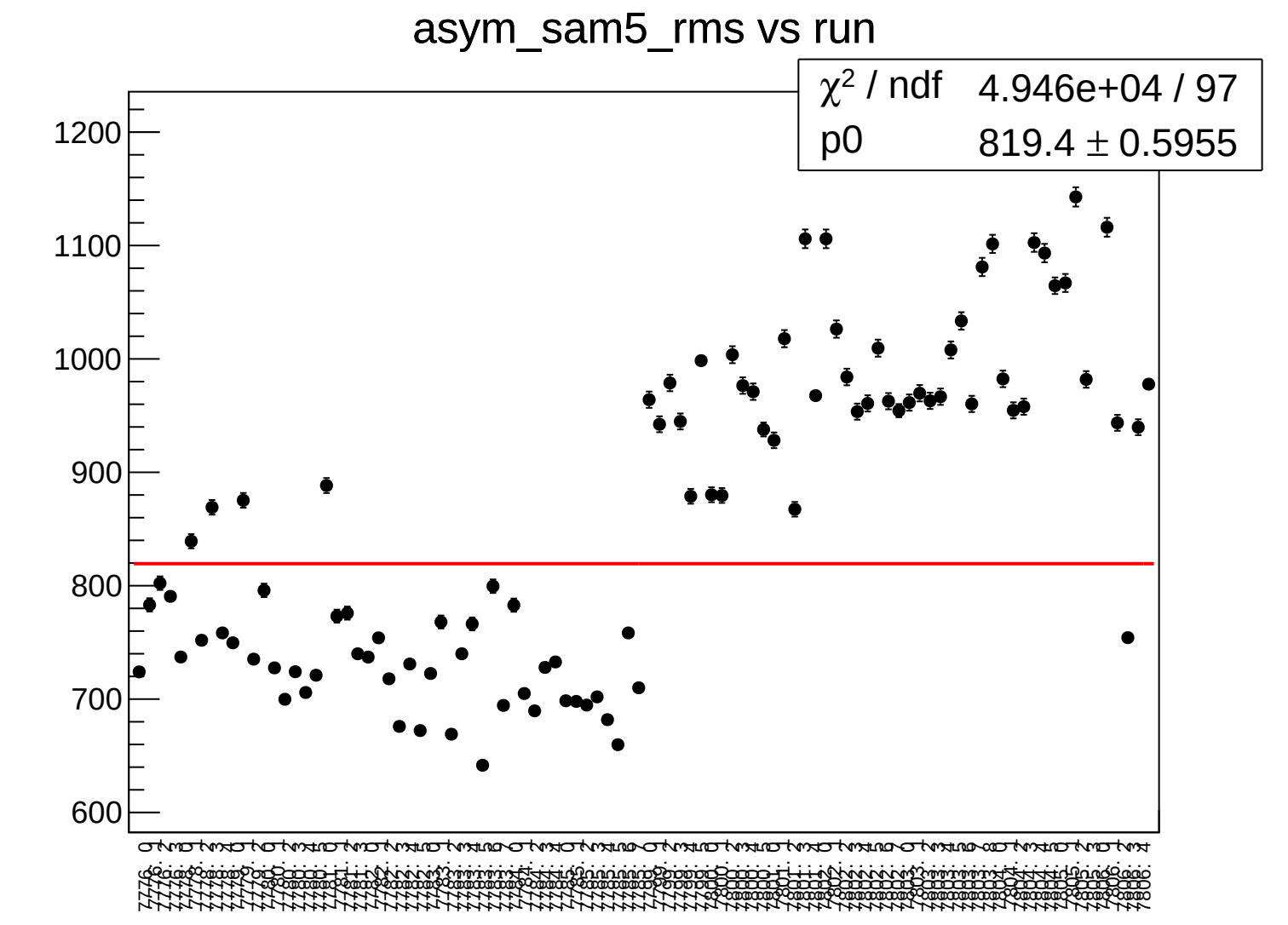

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 96.62 / 97
p0 −431.9 ± 862.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 130.1
Std Dev 0
2
1
0
−1
−2
−3

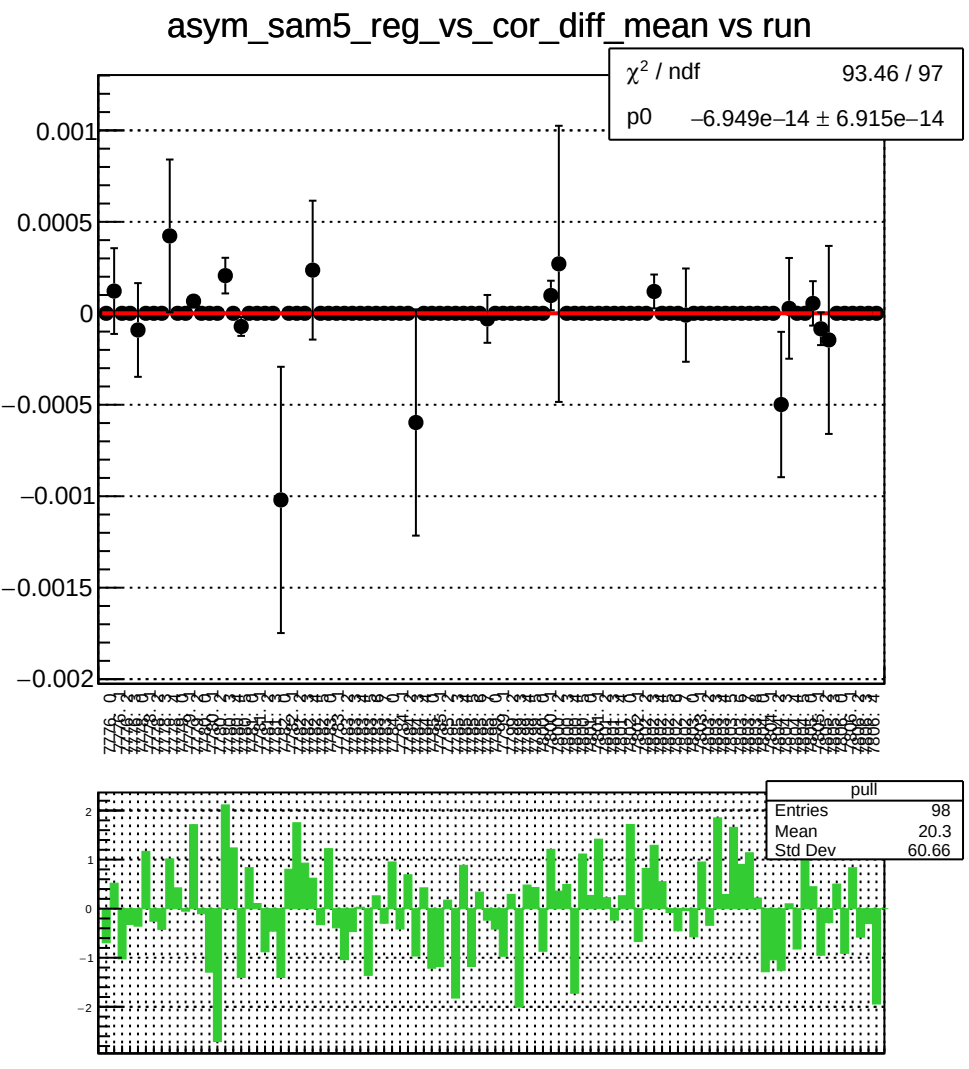

pull1D
Entries 98
Mean 0.02945
Std Dev 0.9925
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

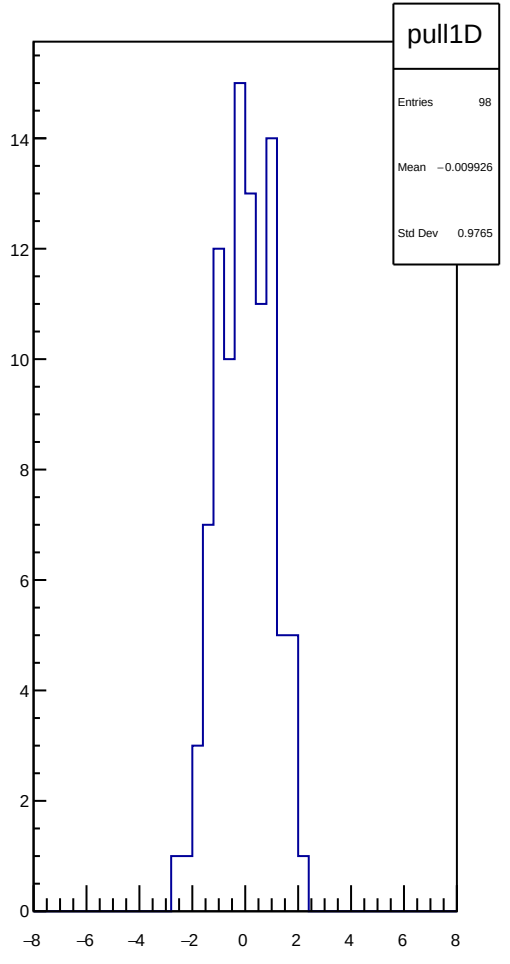

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 4.357e+04 / 97
p0 840.6 ± 0.6099
1200
1100
1000
900
800
700

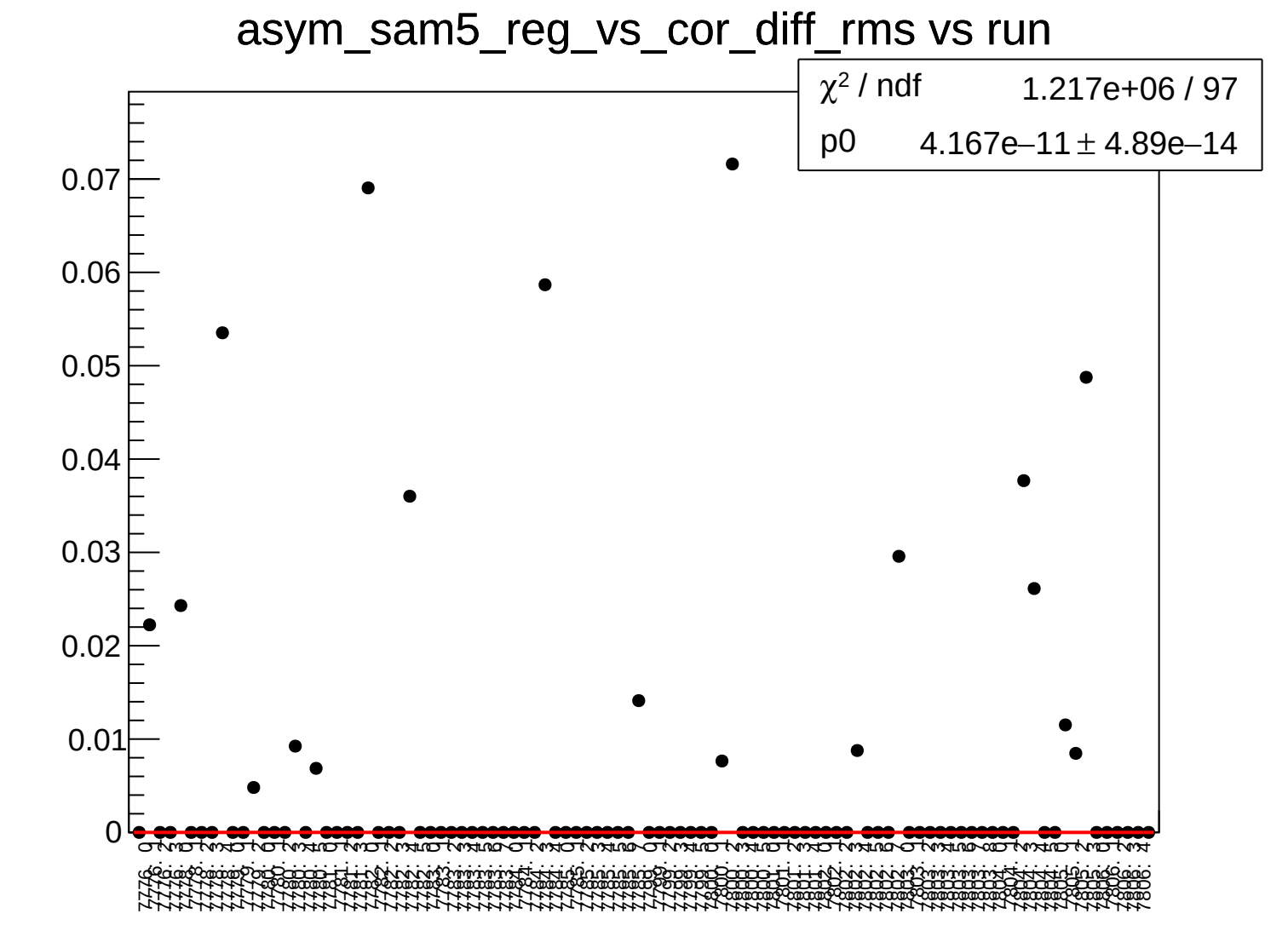

asym_sam5_mean vs run
χ^2 / ndf 99.29 / 97
p0 428.4 ± 842.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 156.1
Std Dev 0
3
2
1
0
−1
−2

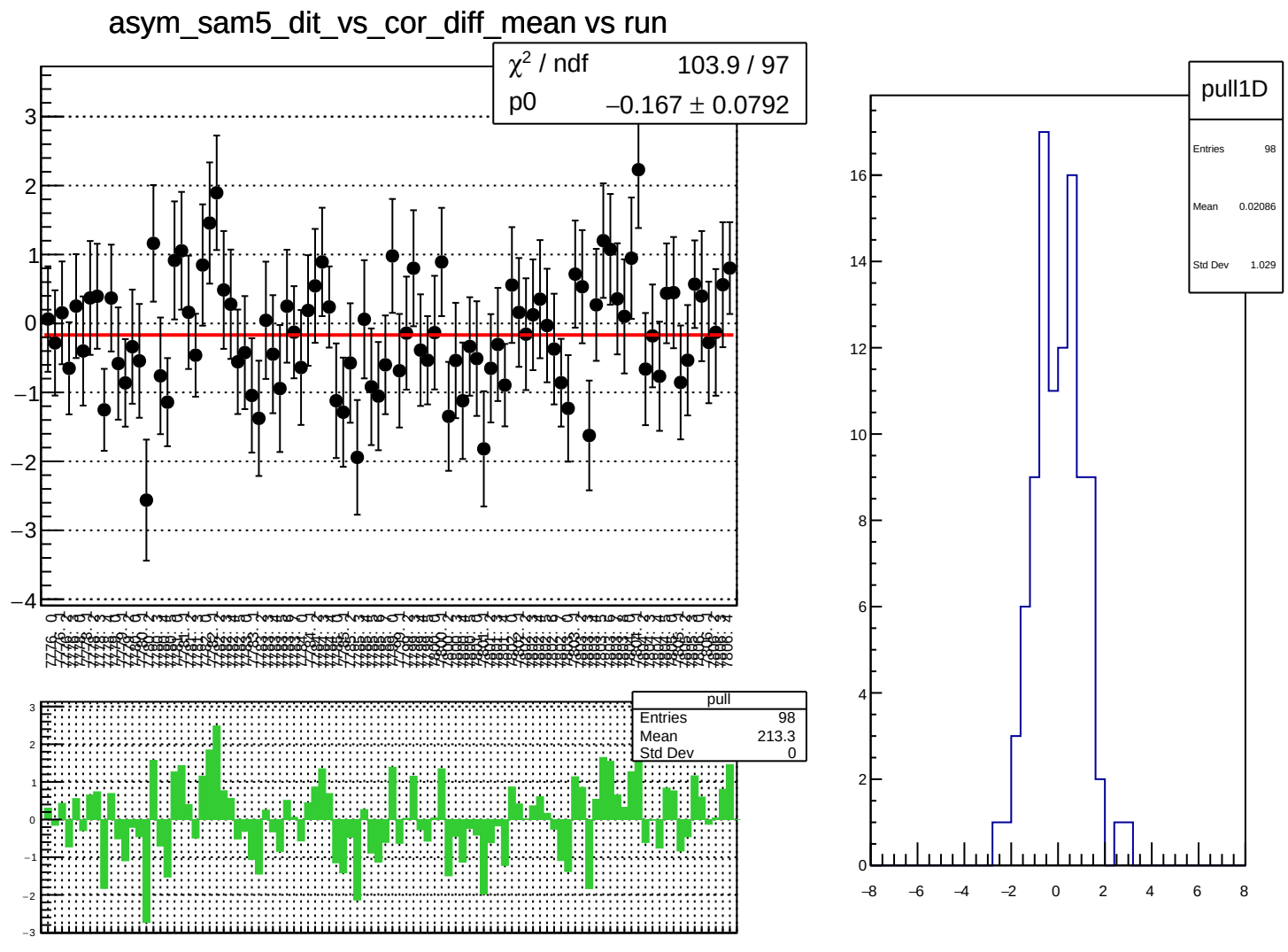

pull1D
Entries 98
Mean −0.02369
Std Dev 1.006
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

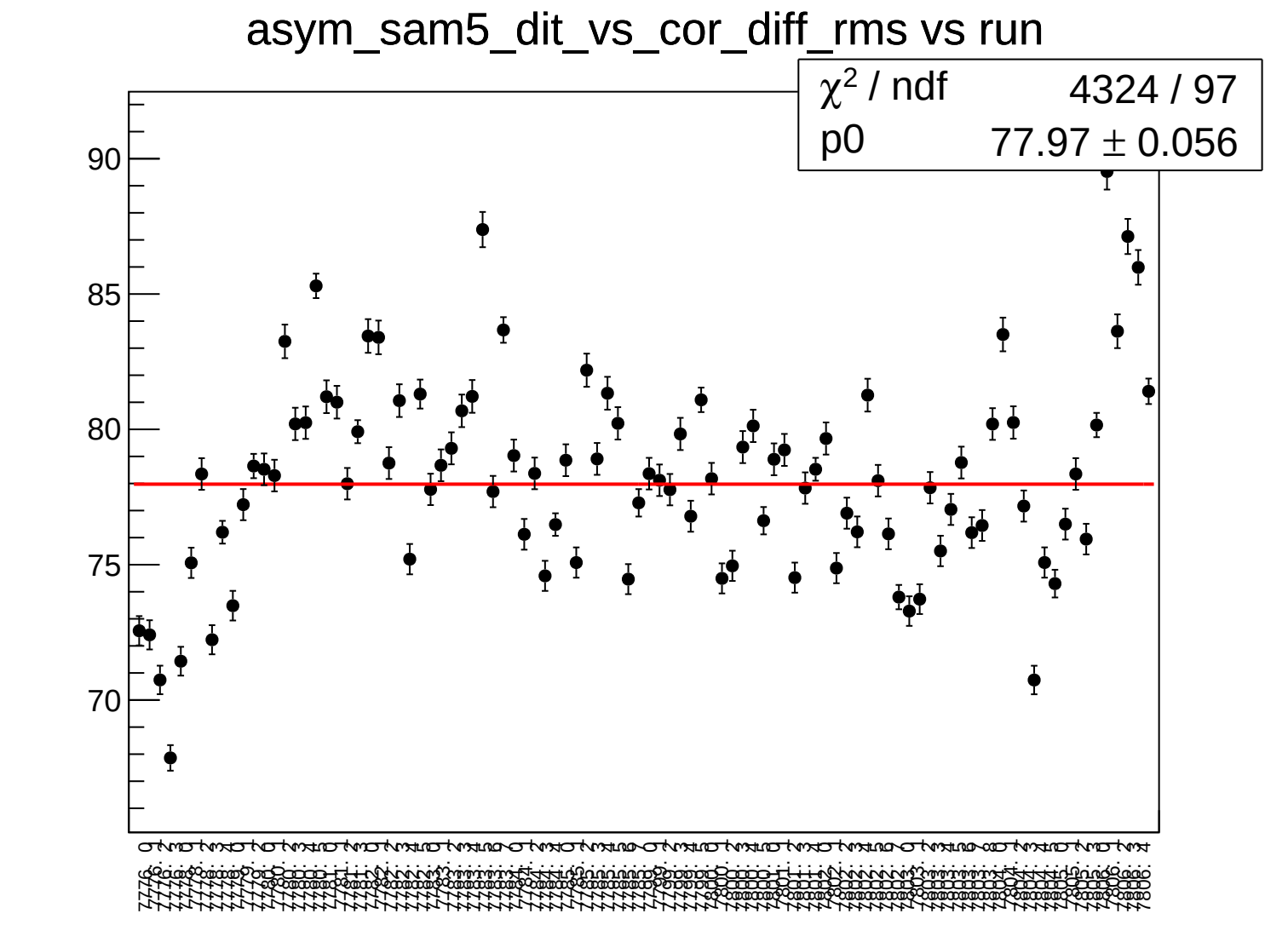

asym_sam5_rms vs run
χ^2 / ndf 4.946e+04 / 97
p0 819.4 ± 0.5955
1200
1100
1000
900
800
700
600

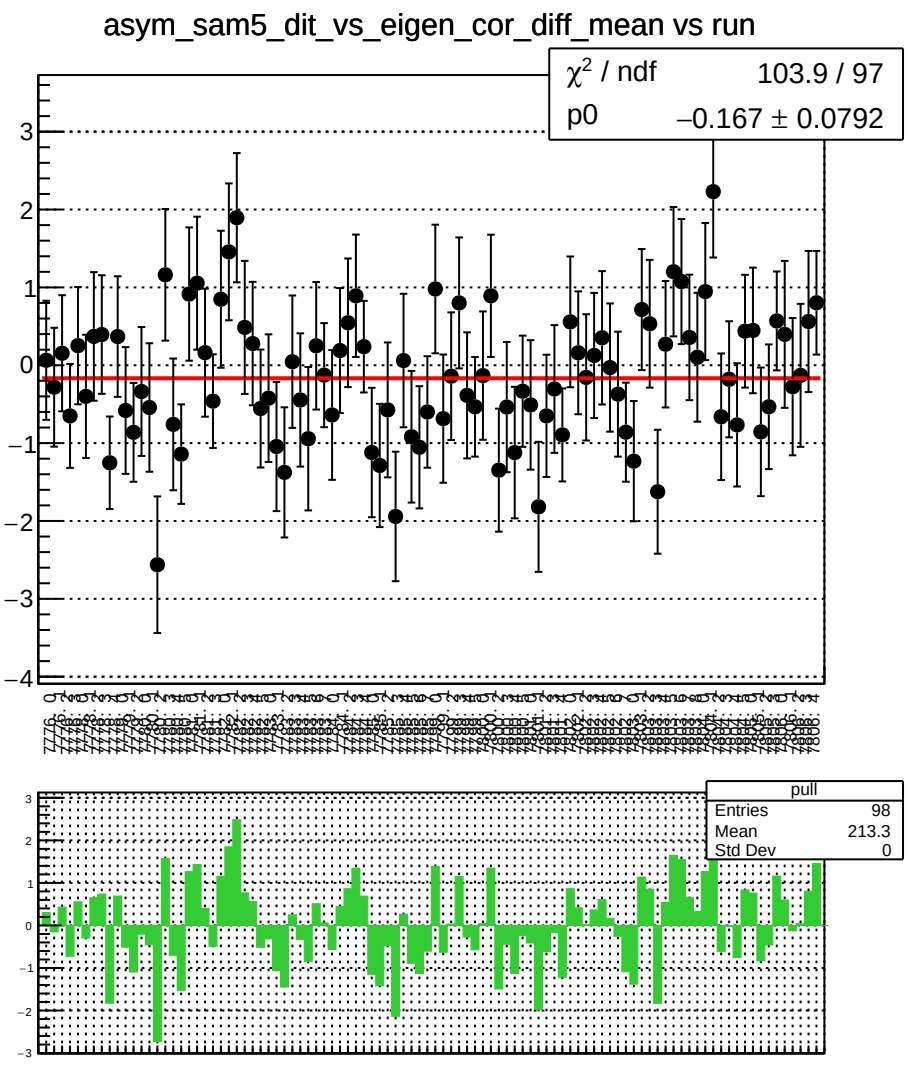

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 93.46 / 97
p0 −6.949e−14 ± 6.915e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 98
Mean 20.3
Std Dev 60.66
2
1
0
−1
−2

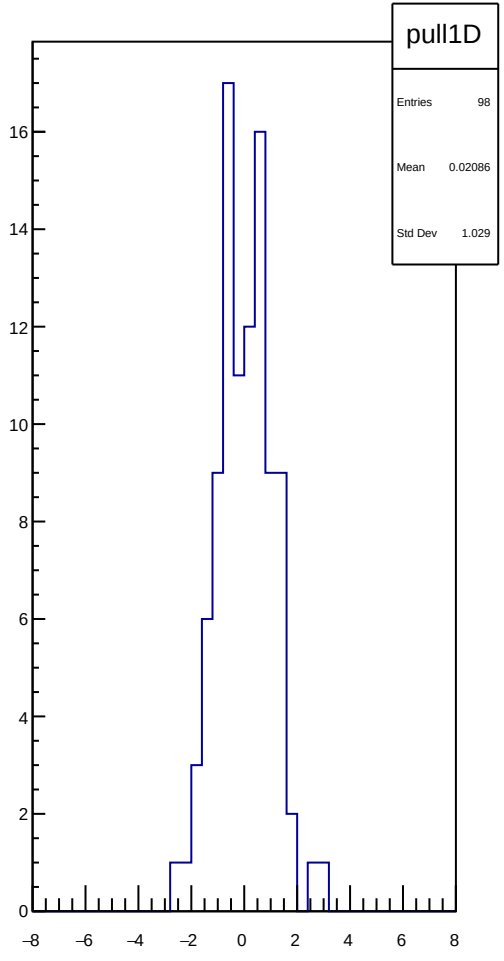

pull1D
Entries 98
Mean −0.009926
Std Dev 0.9765
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

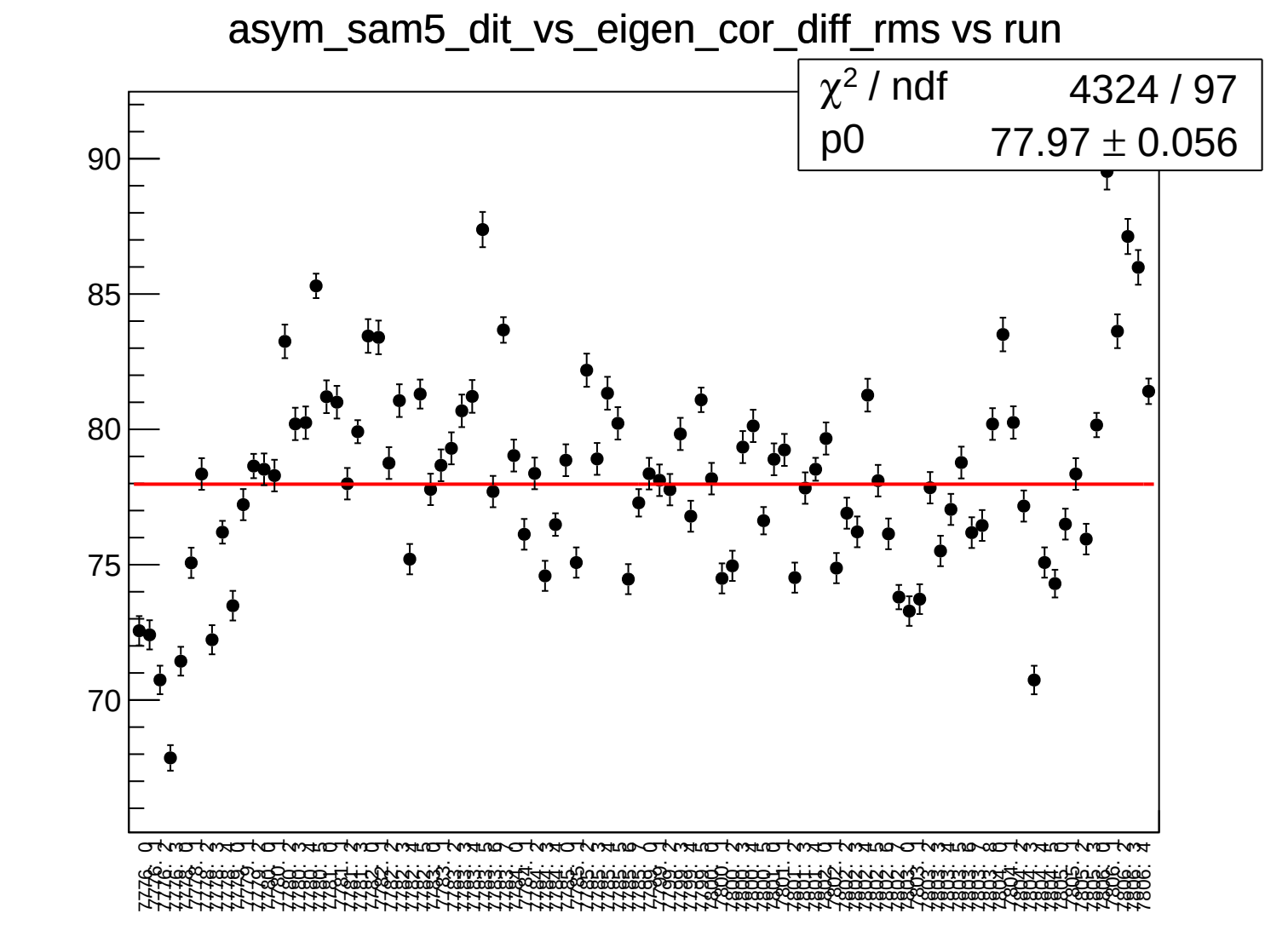

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.217e+06 / 97
p0 4.167e−11 ± 4.89e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

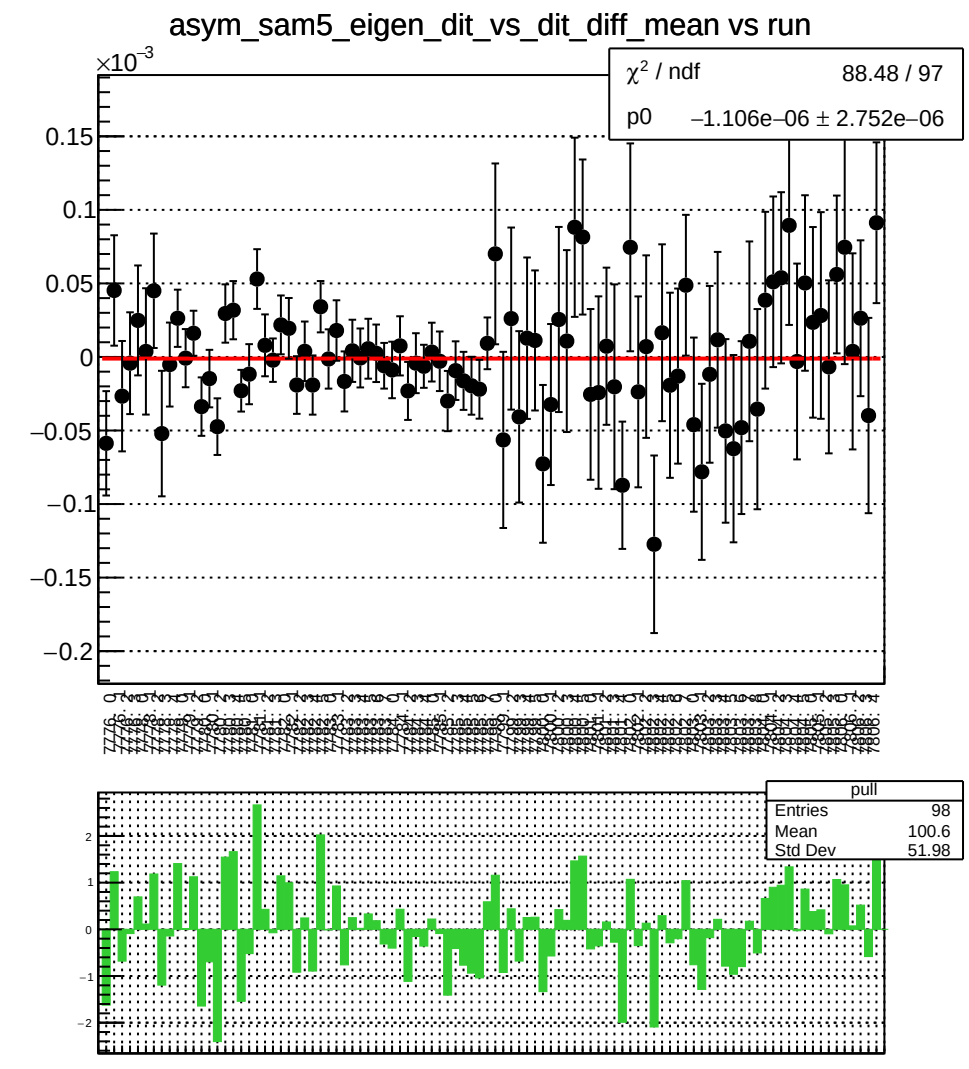

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 97
p0 −0.167 ± 0.0792
pull
Entries 98
Mean 213.3
Std Dev 0
pull1D
Entries 98
Mean 0.02086
Std Dev 1.029

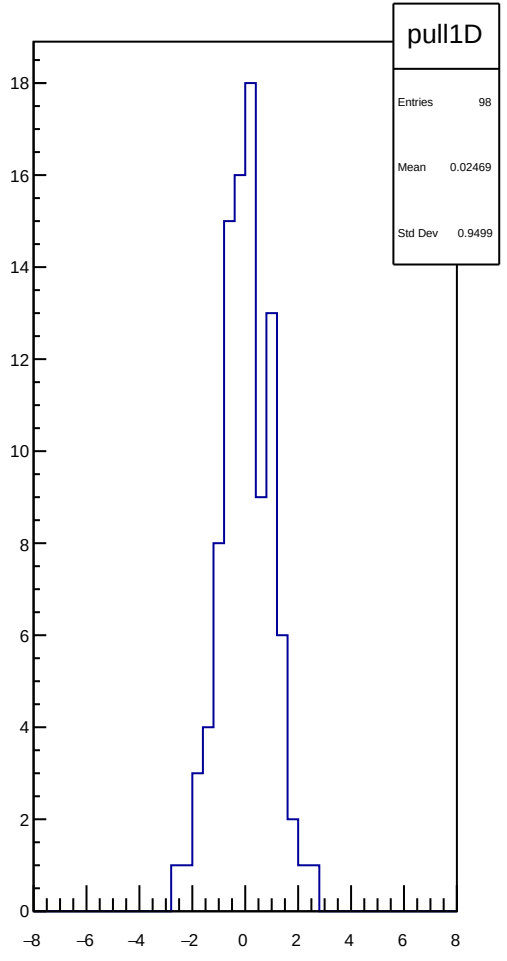

asym_sam5_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4324 / 97
p0 77.97 ± 0.056
90
85
80
75
70

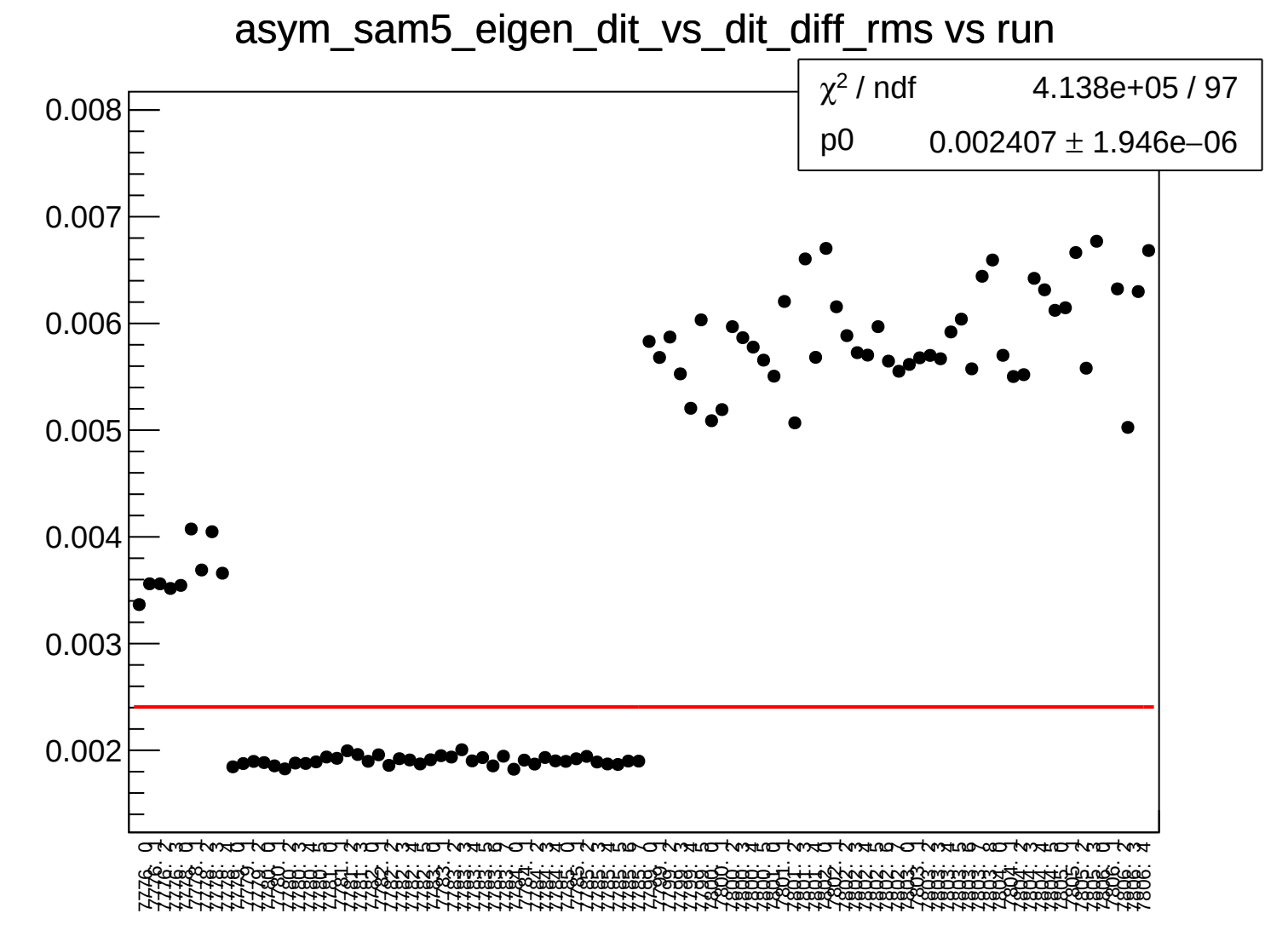

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 97
p0 −0.167 ± 0.0792
pull
Entries 98
Mean 213.3
Std Dev 0

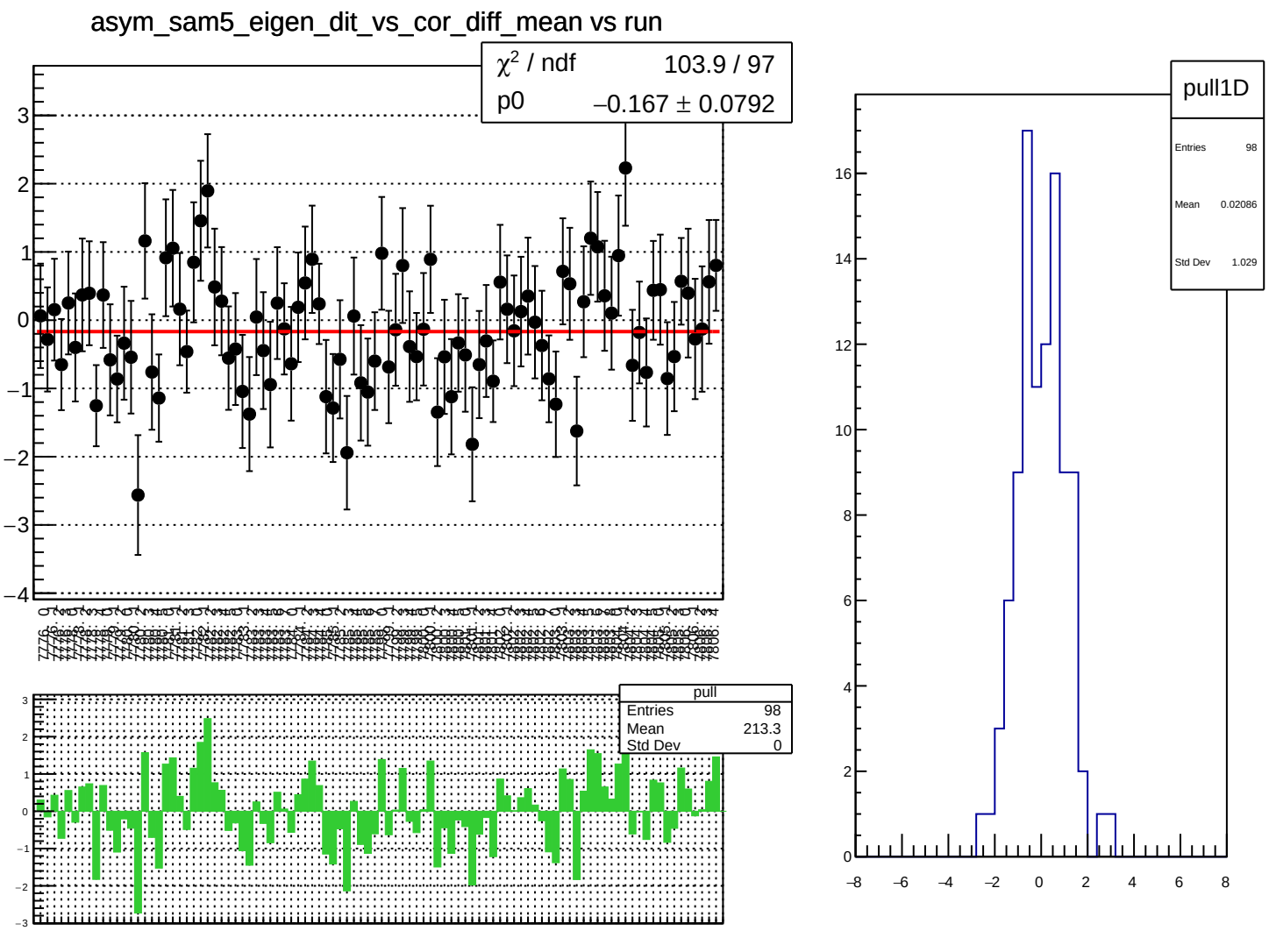

pull1D
Entries 98
Mean 0.02086
Std Dev 1.029

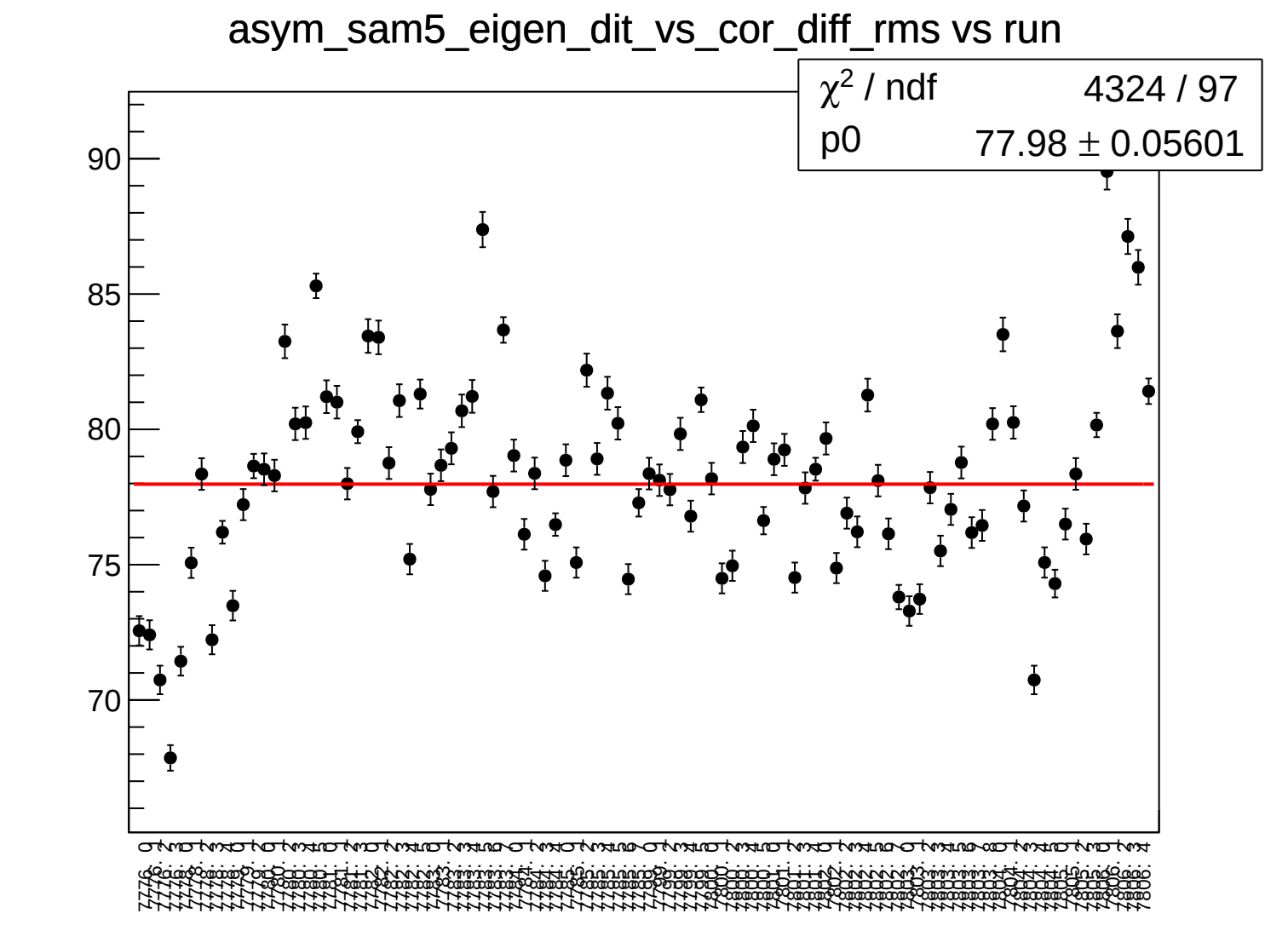

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4324 / 97
p0 77.97 ± 0.056
90
85
80
75
70

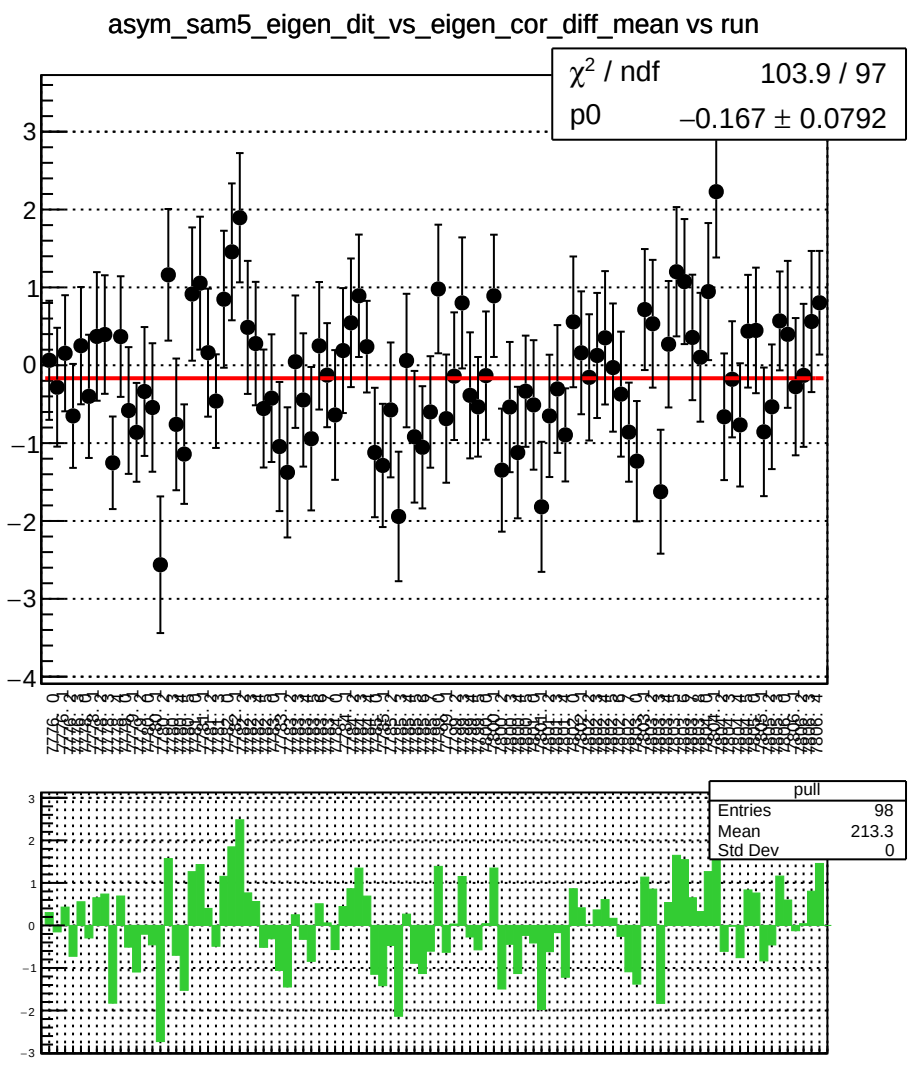

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.48 / 97
p0 −1.106e−06 ± 2.752e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 98
Mean 100.6
Std Dev 51.98
2
1
0
−1
−2

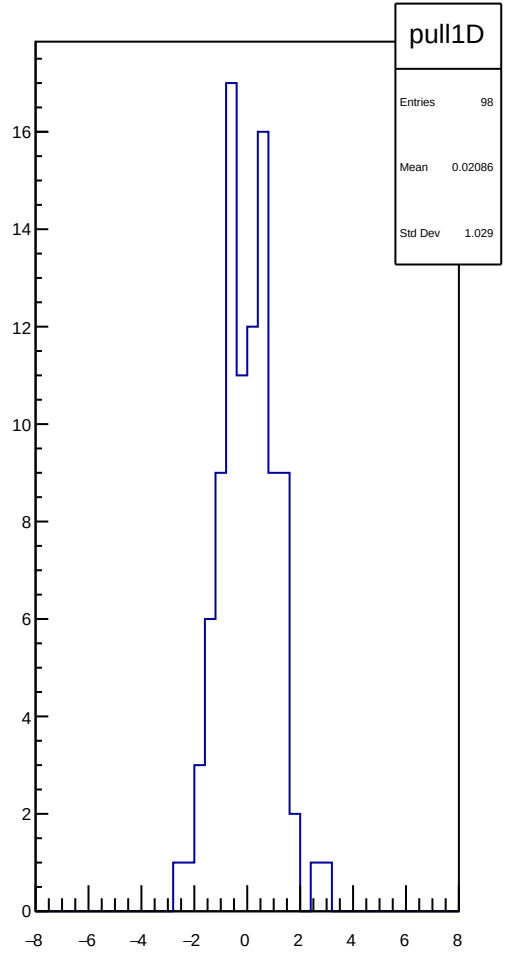

pull1D
Entries 98
Mean 0.02469
Std Dev 0.9499
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

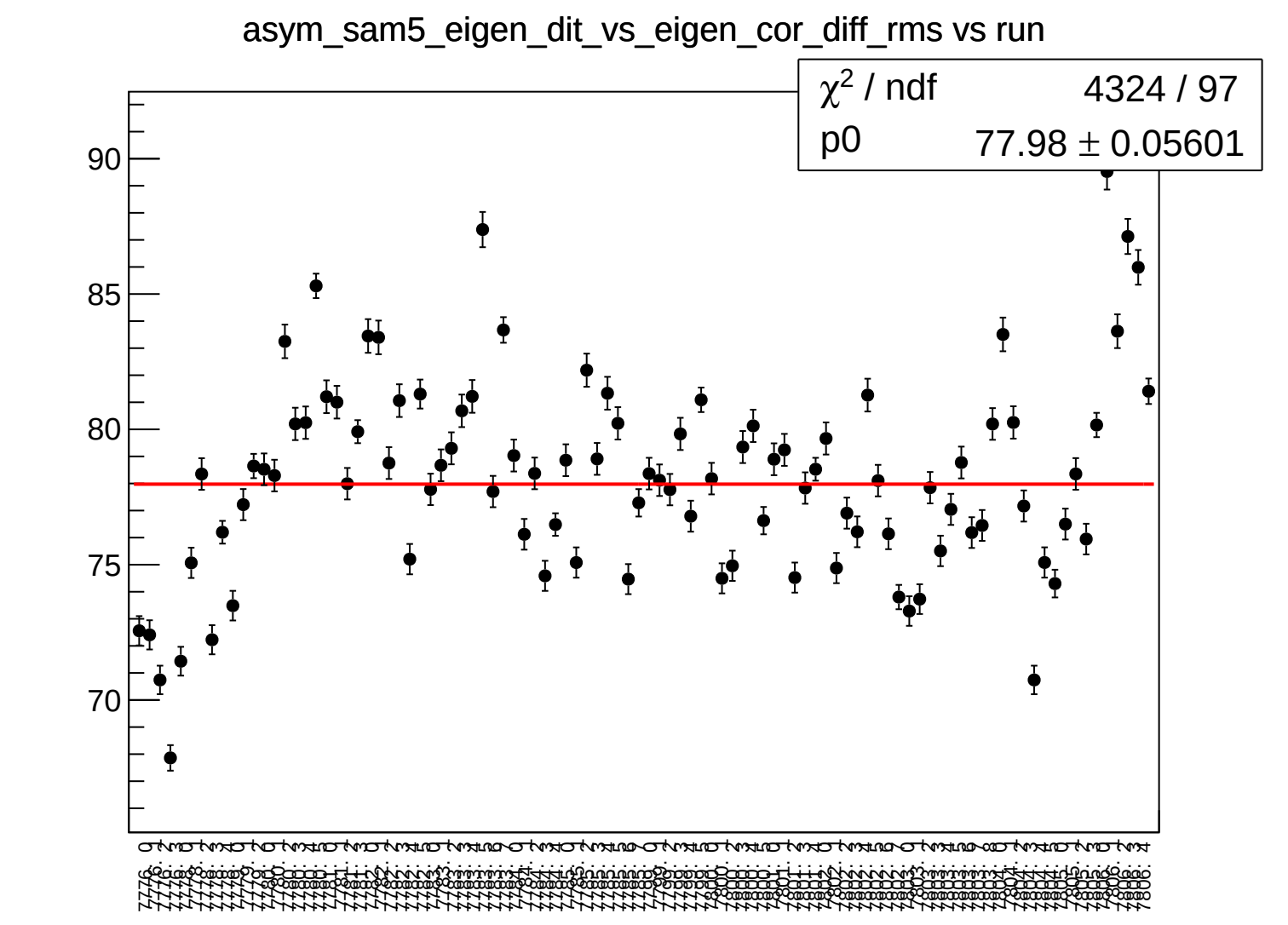

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.138e+05 / 97
p0 0.002407 ± 1.946e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

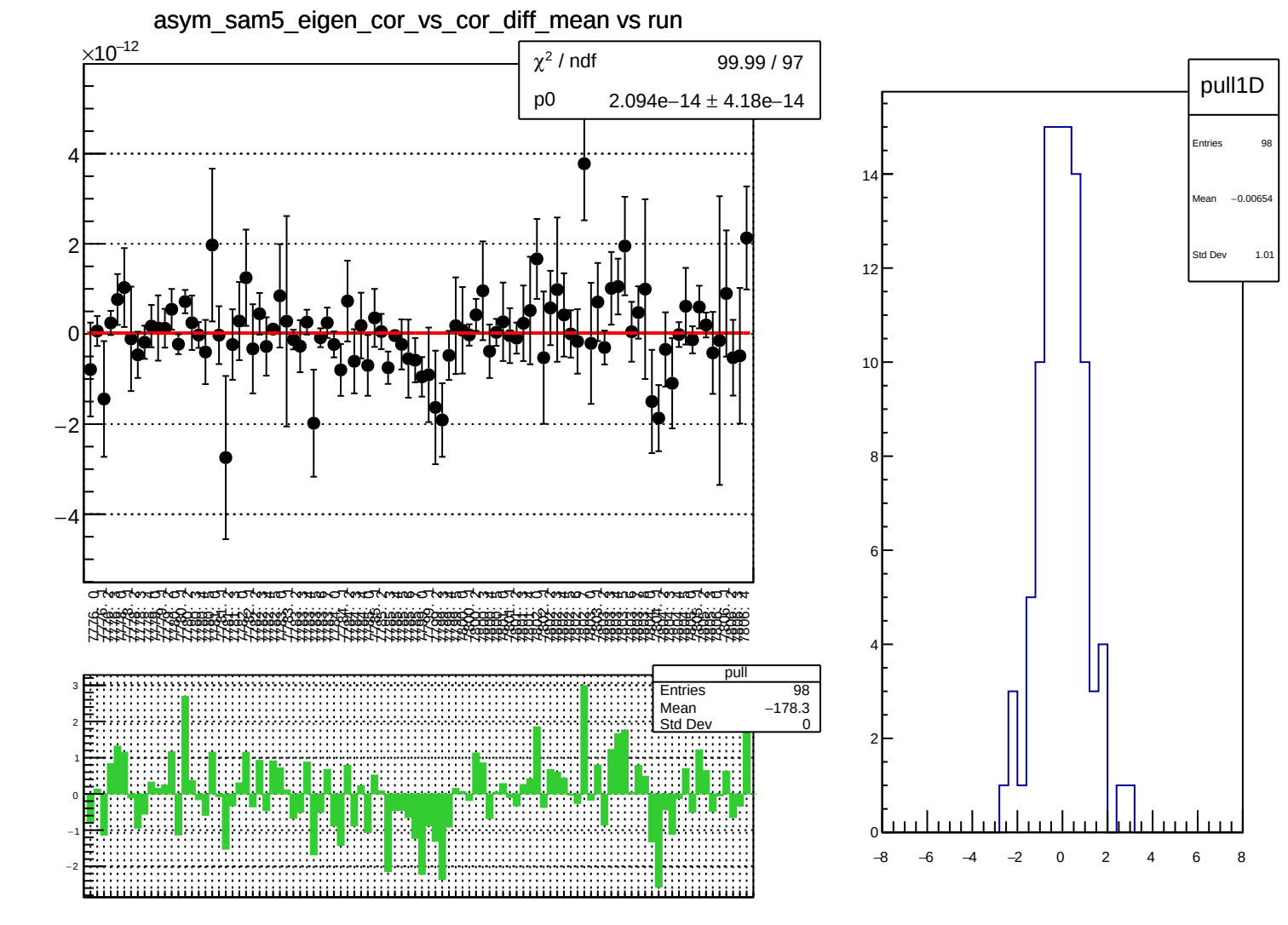

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 97
p0 −0.167 ± 0.0792
pull
Entries 98
Mean 213.3
Std Dev 0
pull1D
Entries 98
Mean 0.02086
Std Dev 1.029

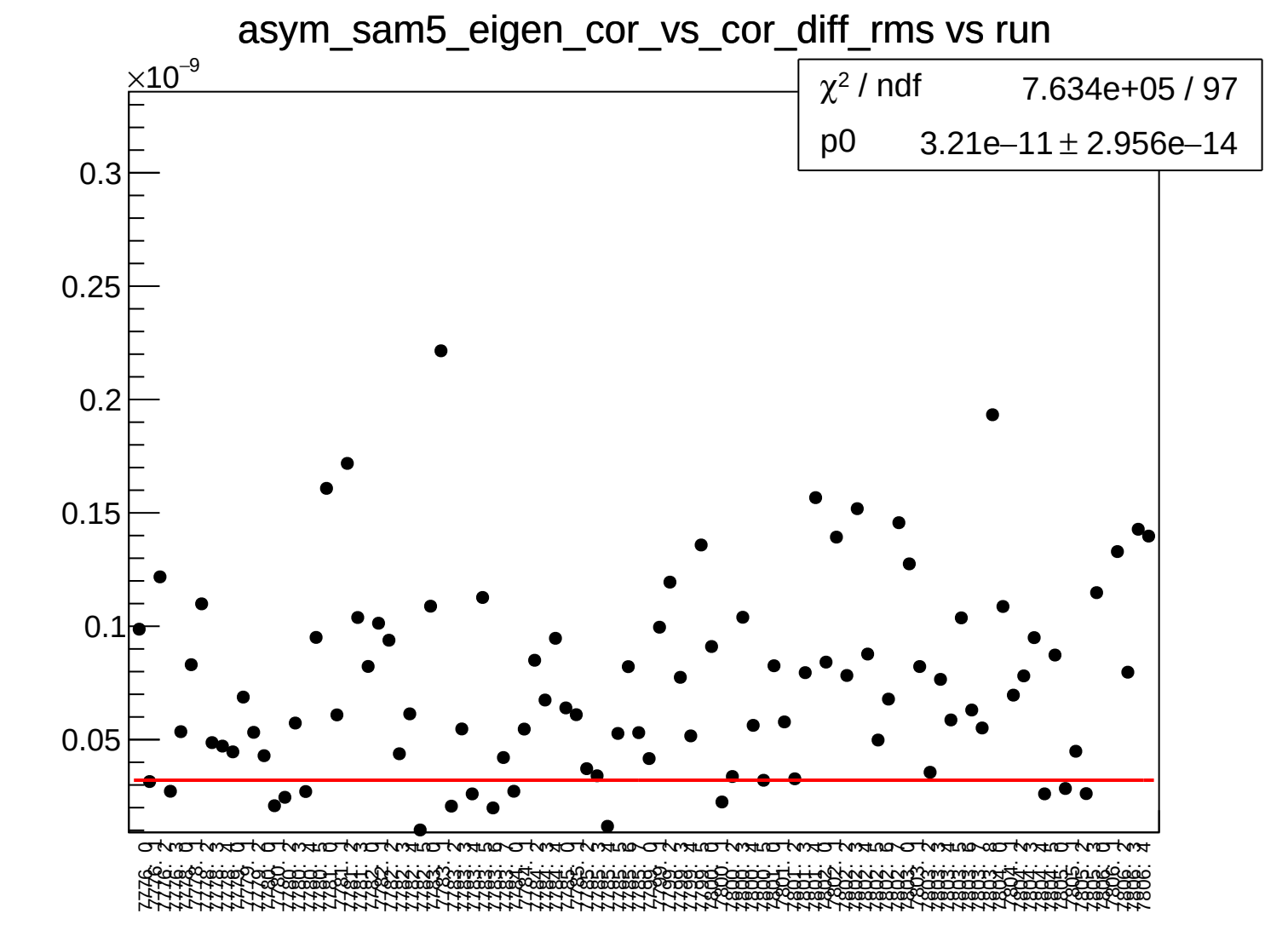

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4324 / 97
p0 77.98 ± 0.05601
90
85
80
75
70

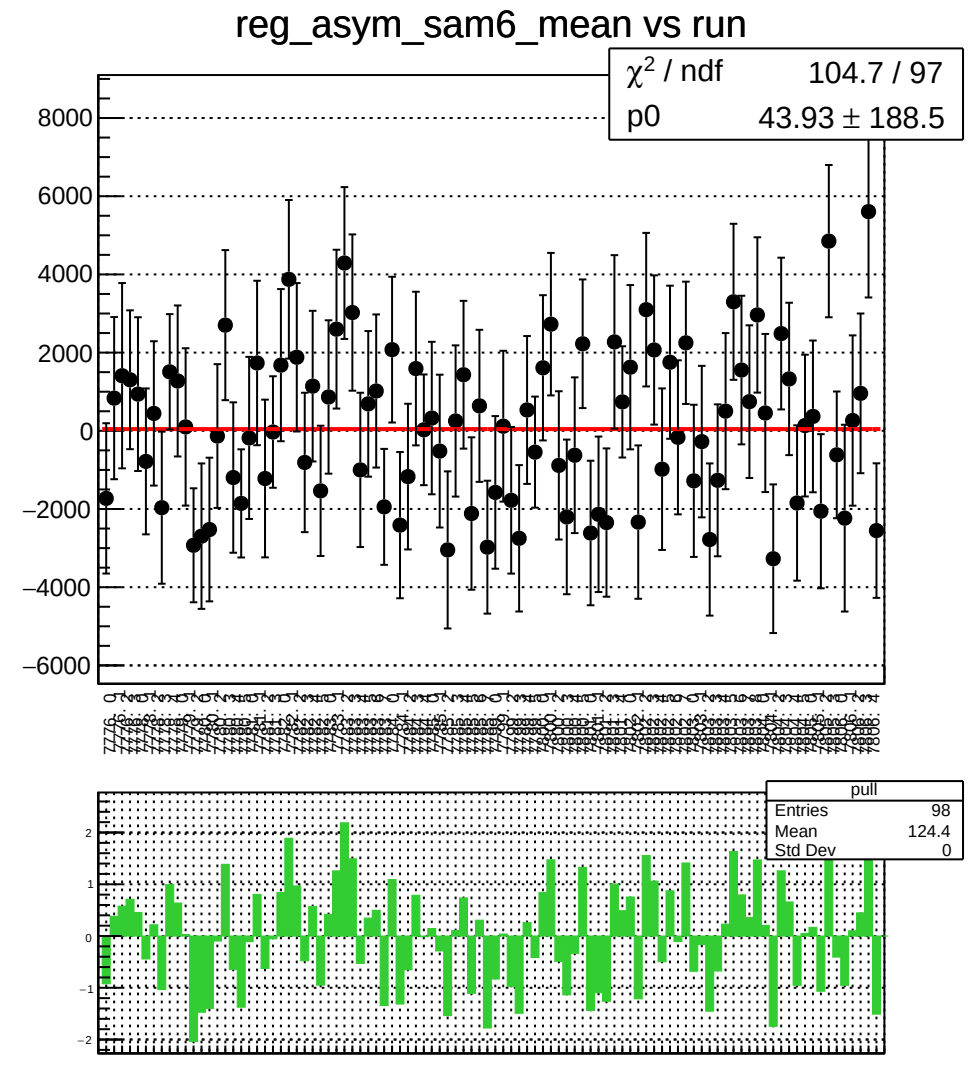

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 97
p0 −0.167 ± 0.0792
pull
Entries 98
Mean 213.3
Std Dev 0

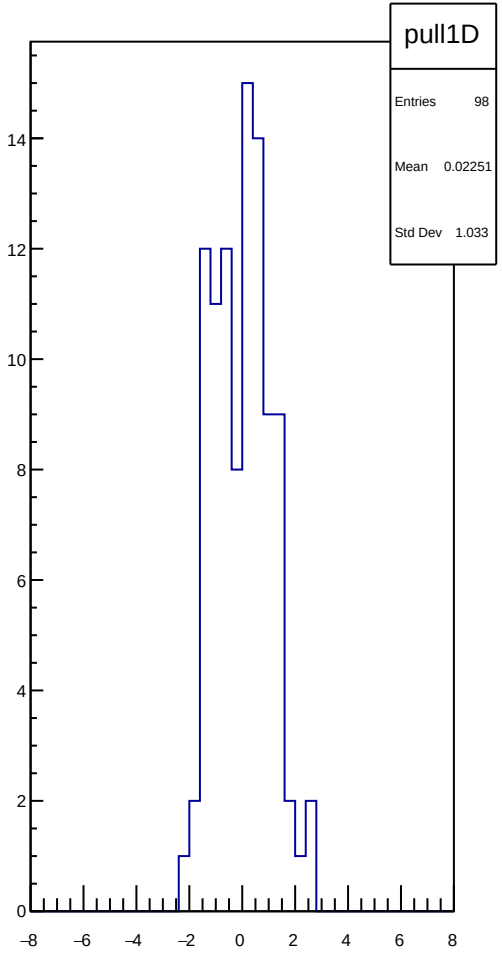

pull1D
Entries 98
Mean 0.02086
Std Dev 1.029

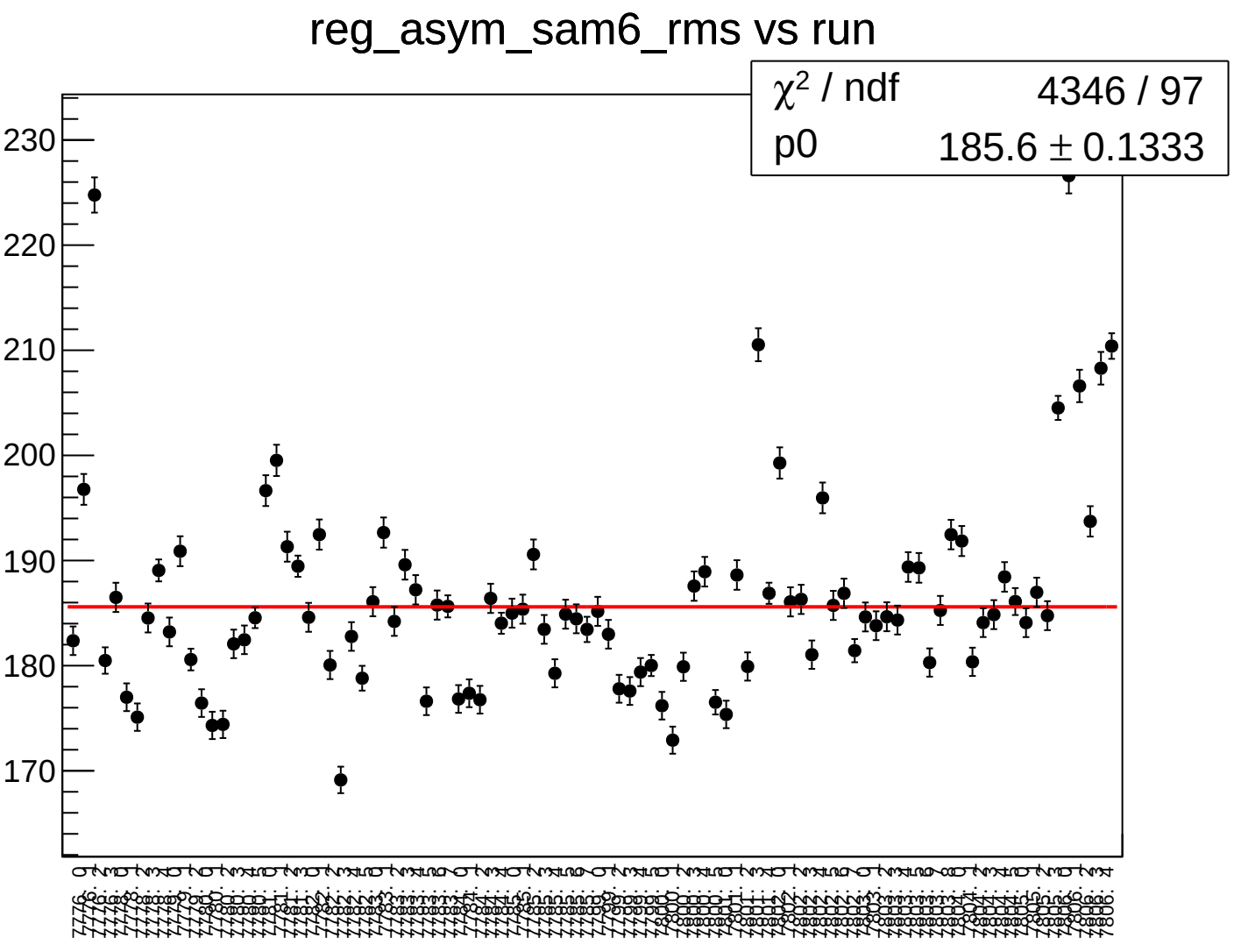

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4324 / 97
p0 77.98 ± 0.05601
90
85
80
75
70

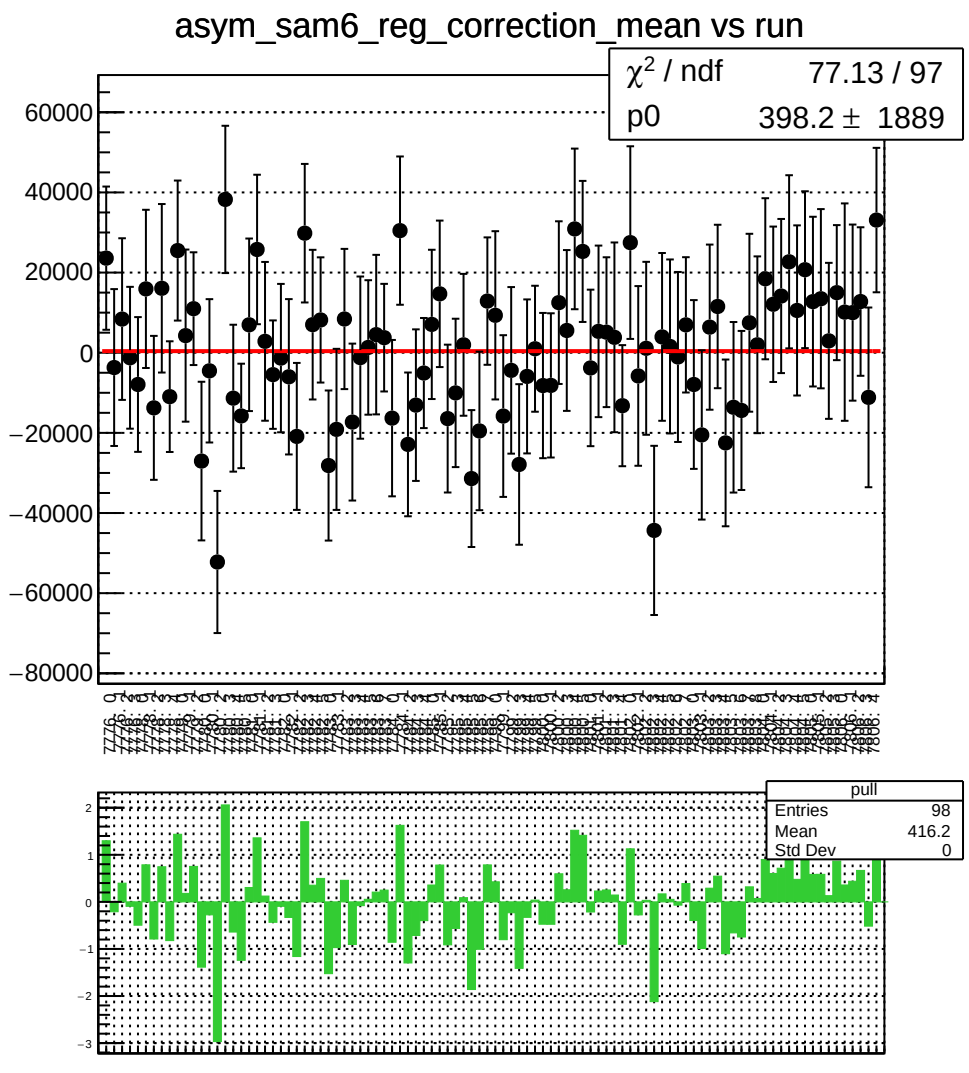

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.99 / 97
p0 2.094e−14 ± 4.18e−14
pull
Entries 98
Mean −178.3
Std Dev 0
pull1D
Entries 98
Mean −0.00654
Std Dev 1.01

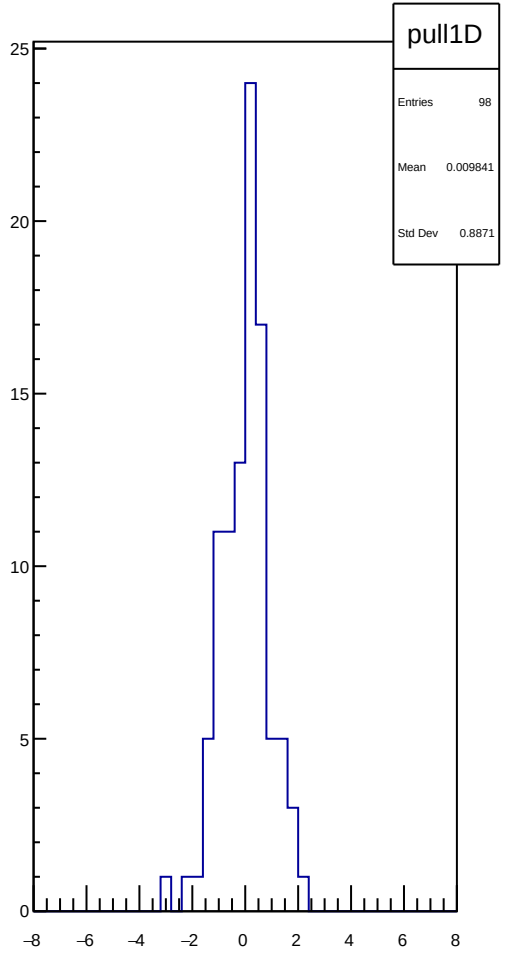

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.634e+05 / 97
p0 3.21e−11 ± 2.956e−14
0.3
0.25
0.2
0.15
0.1
0.05

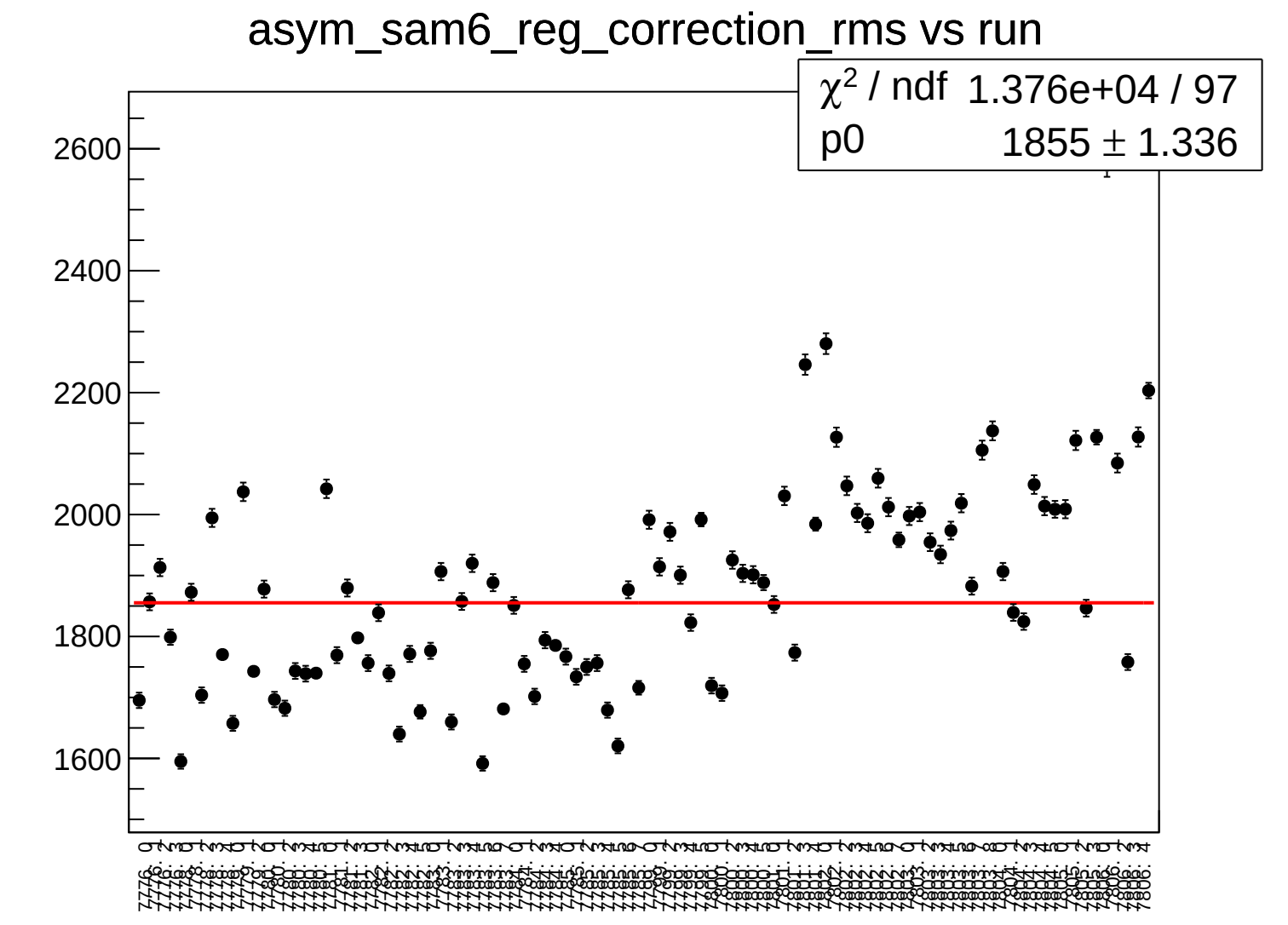

reg_asym_sam6_mean vs run
χ² / ndf 104.7 / 97
p0 43.93 ± 188.5
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 124.4
Std Dev 0
2
1
0
−1
−2

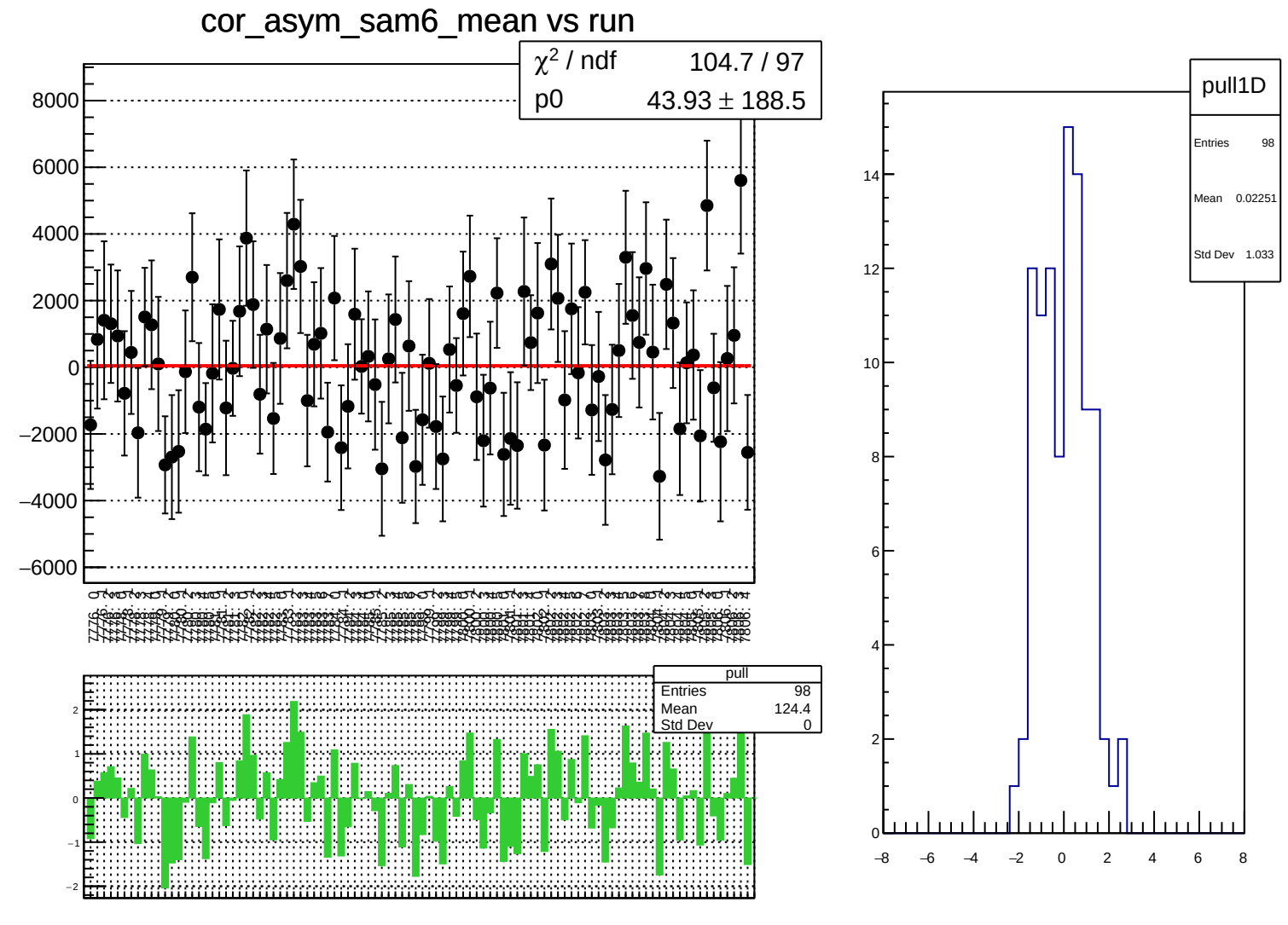

pull1D
Entries 98
Mean 0.02251
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

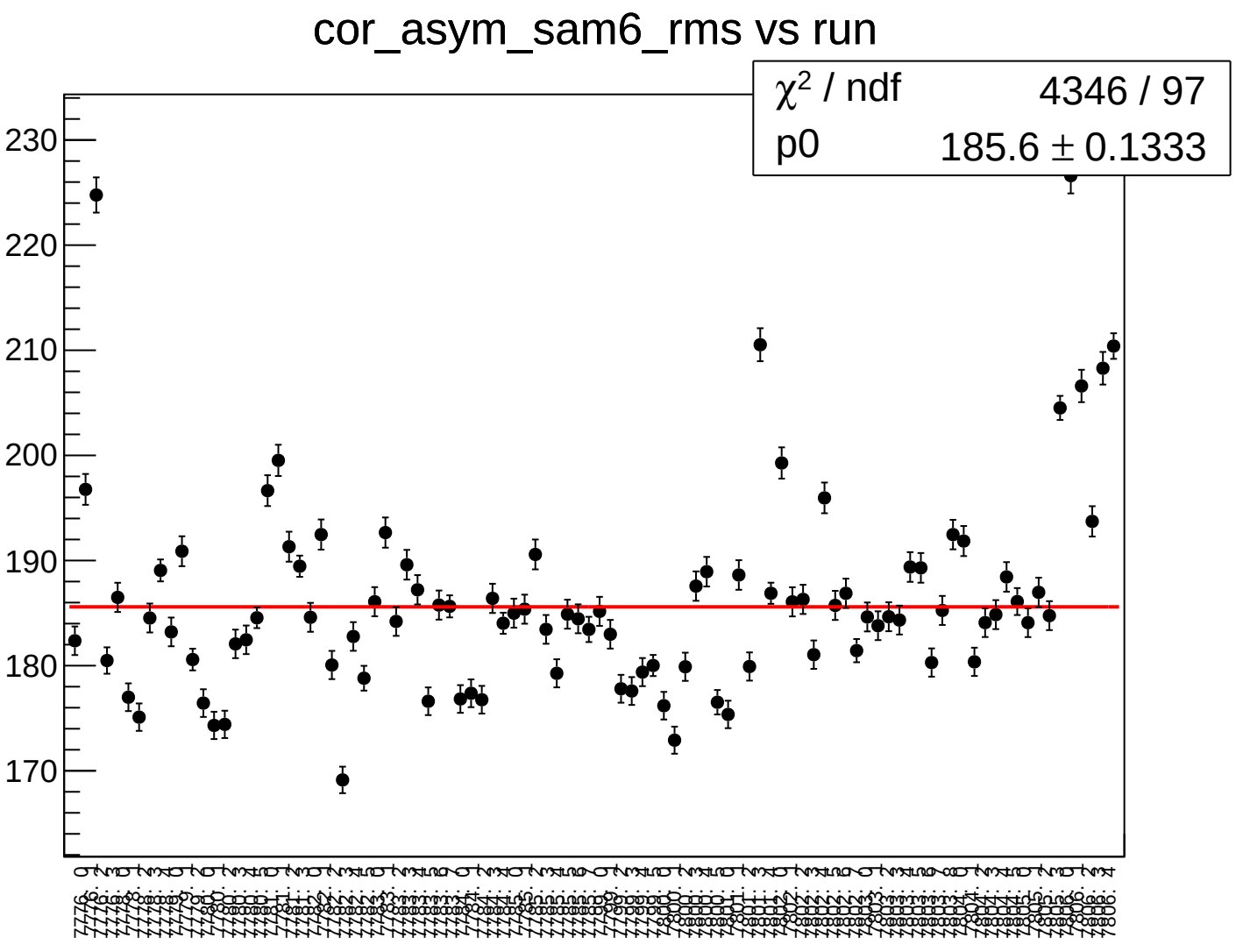

reg_asym_sam6_rms vs run
χ² / ndf 4346 / 97
p0 185.6 ± 0.1333
230
220
210
200
190
180
170

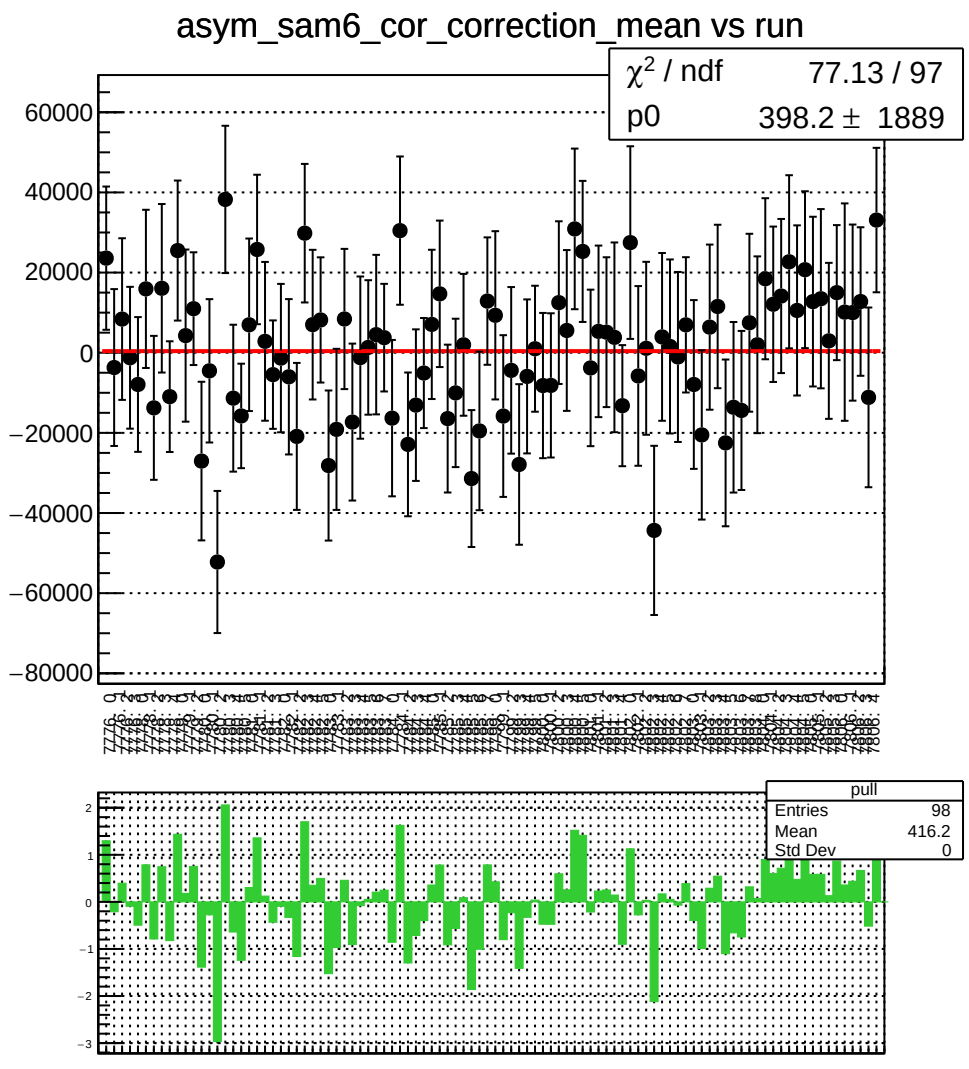

asym_sam6_reg_correction_mean vs run
χ² / ndf 77.13 / 97
p0 398.2 ± 1889
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 416.2
Std Dev 0
2
1
0
−1
−2
−3

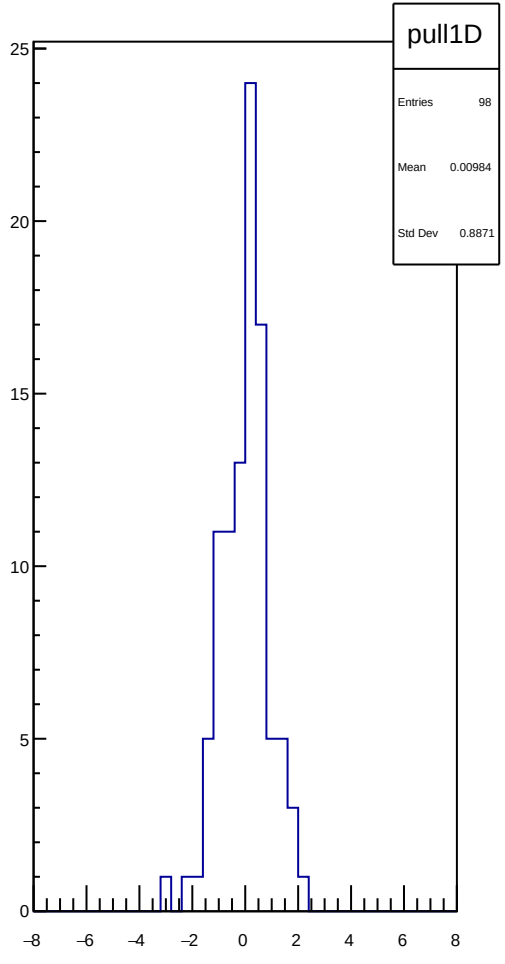

pull1D
Entries 98
Mean 0.009841
Std Dev 0.8871
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

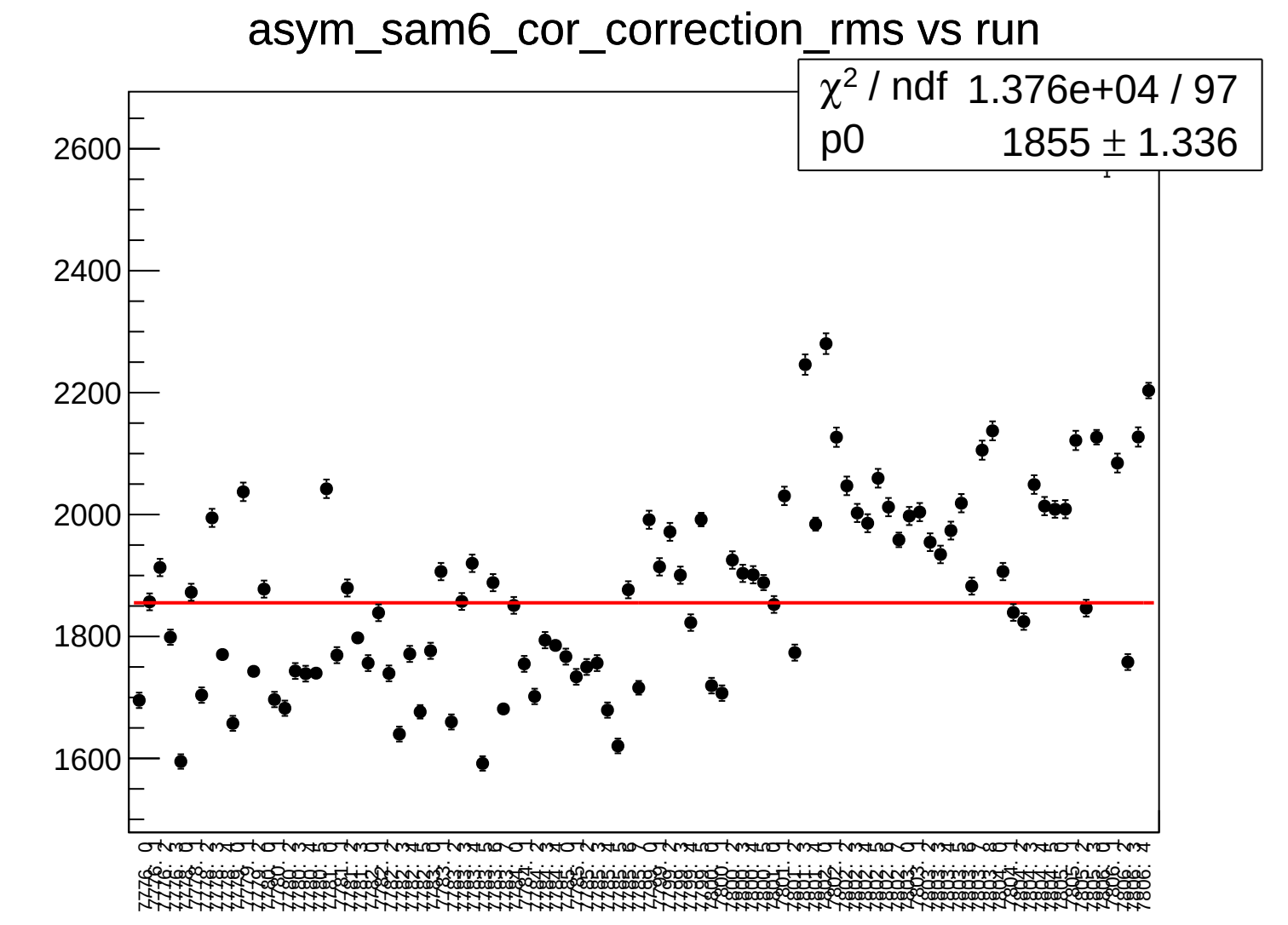

asym_sam6_reg_correction_rms vs run
χ^2 / ndf 1.376e+04 / 97
p0 1855 ± 1.336
2600
2400
2200
2000
1800
1600

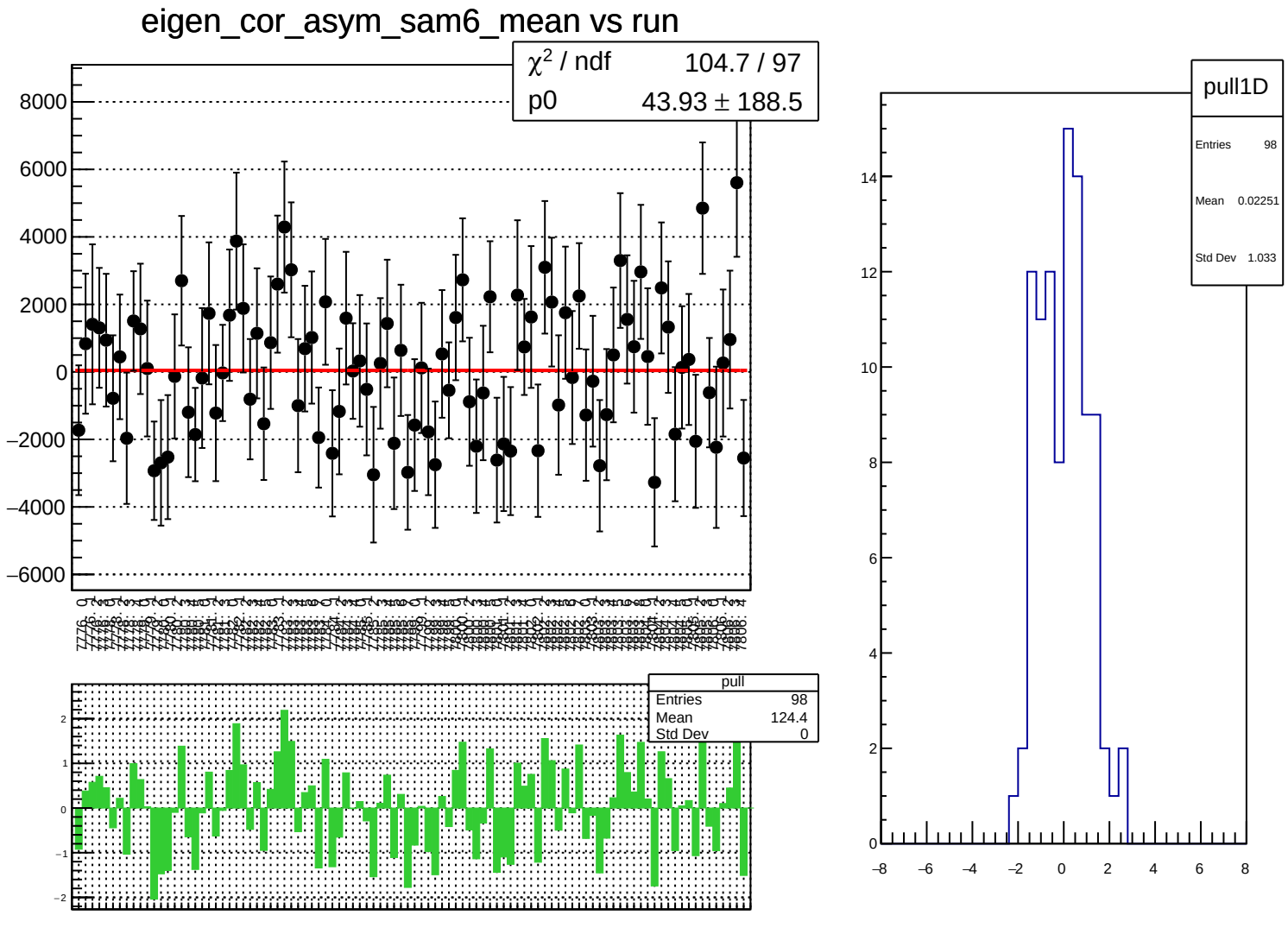

cor_asym_sam6_mean vs run
χ² / ndf 104.7 / 97
p0 43.93 ± 188.5
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 124.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02251
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

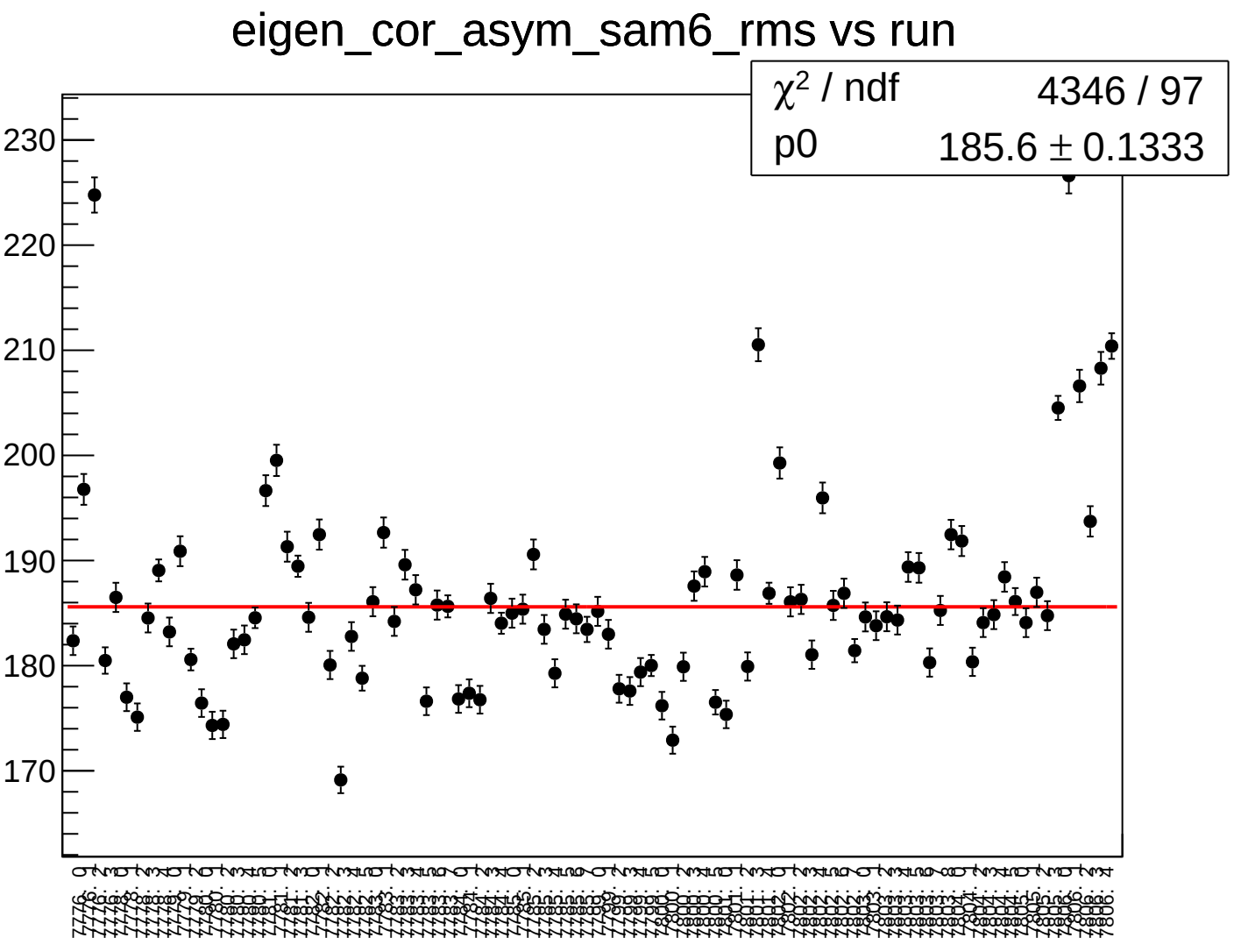

cor_asym_sam6_rms vs run
χ² / ndf 4346 / 97
p0 185.6 ± 0.1333
230
220
210
200
190
180
170

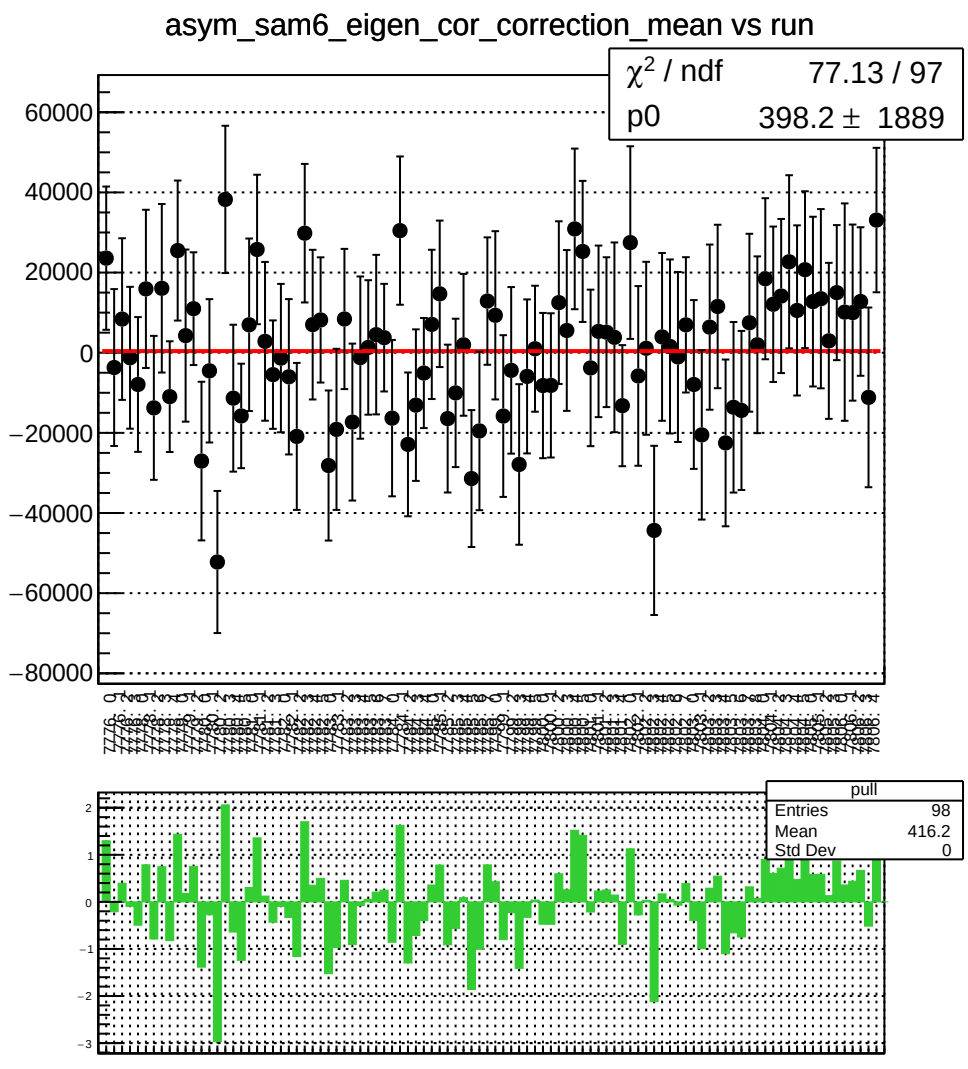

asym_sam6_cor_correction_mean vs run
χ² / ndf 77.13 / 97
p0 398.2 ± 1889
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 416.2
Std Dev 0
2
1
0
−1
−2
−3

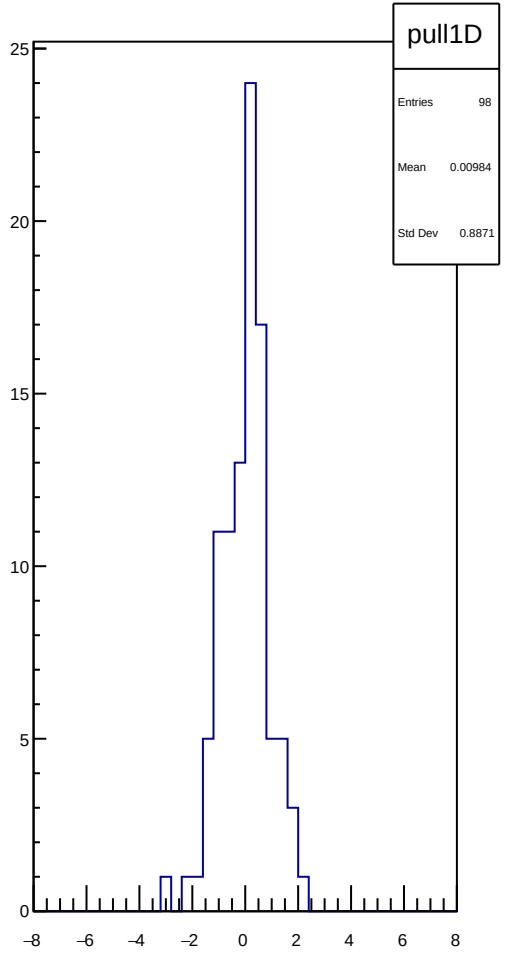

pull1D
Entries 98
Mean 0.00984
Std Dev 0.8871
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

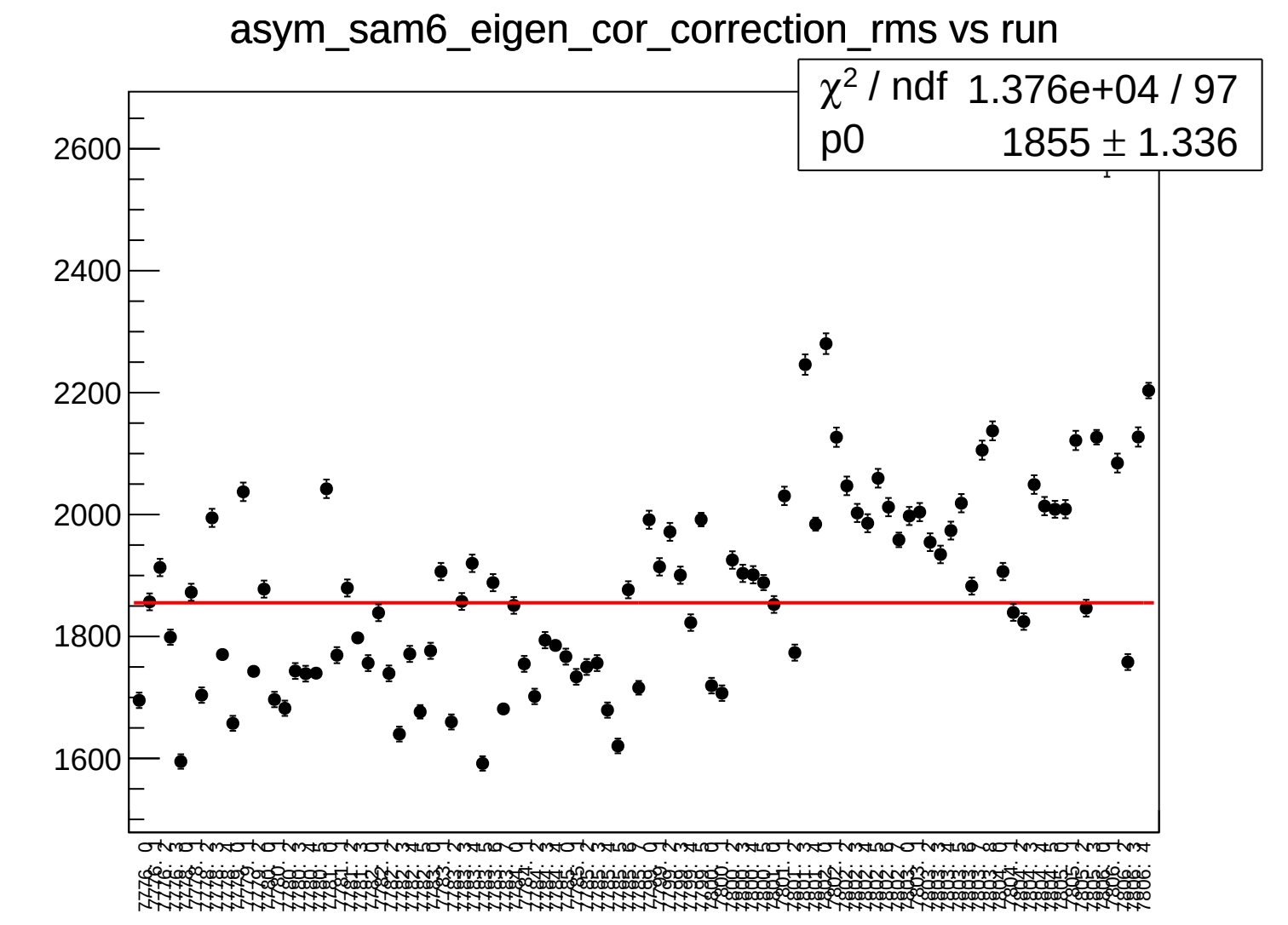

asym_sam6_cor_correction_rms vs run
χ² / ndf 1.376e+04 / 97
p0 1855 ± 1.336
2600
2400
2200
2000
1800
1600

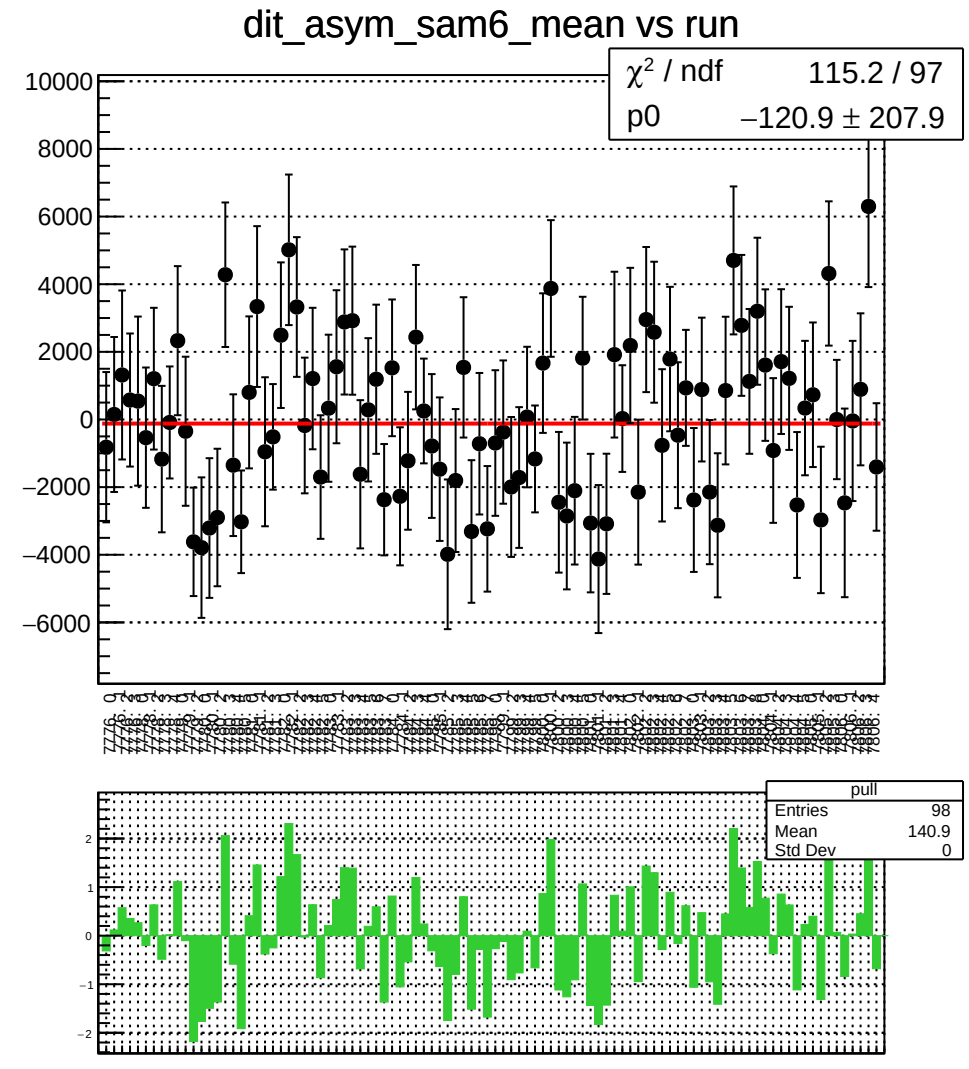

eigen_cor_asym_sam6_mean vs run
χ² / ndf 104.7 / 97
p0 43.93 ± 188.5
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 124.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02251
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

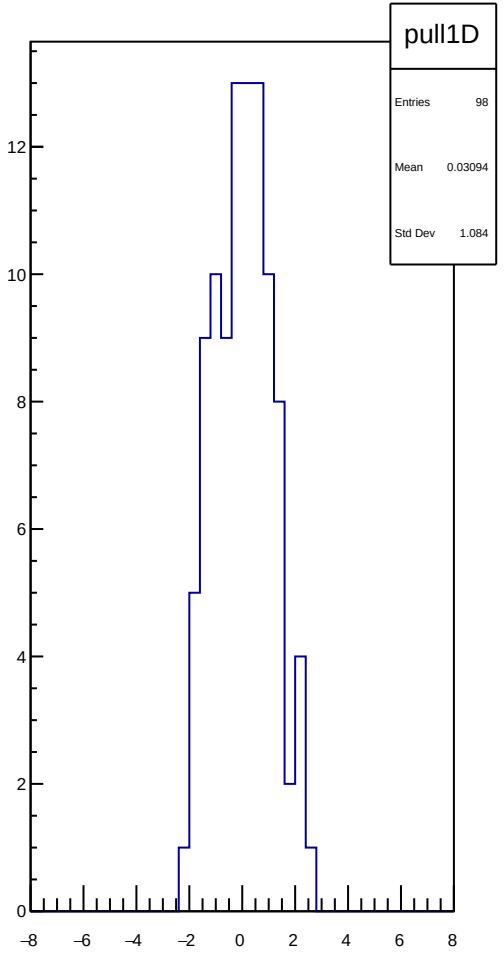

eigen_cor_asym_sam6_rms vs run
χ² / ndf 4346 / 97
p0 185.6 ± 0.1333
230
220
210
200
190
180
170

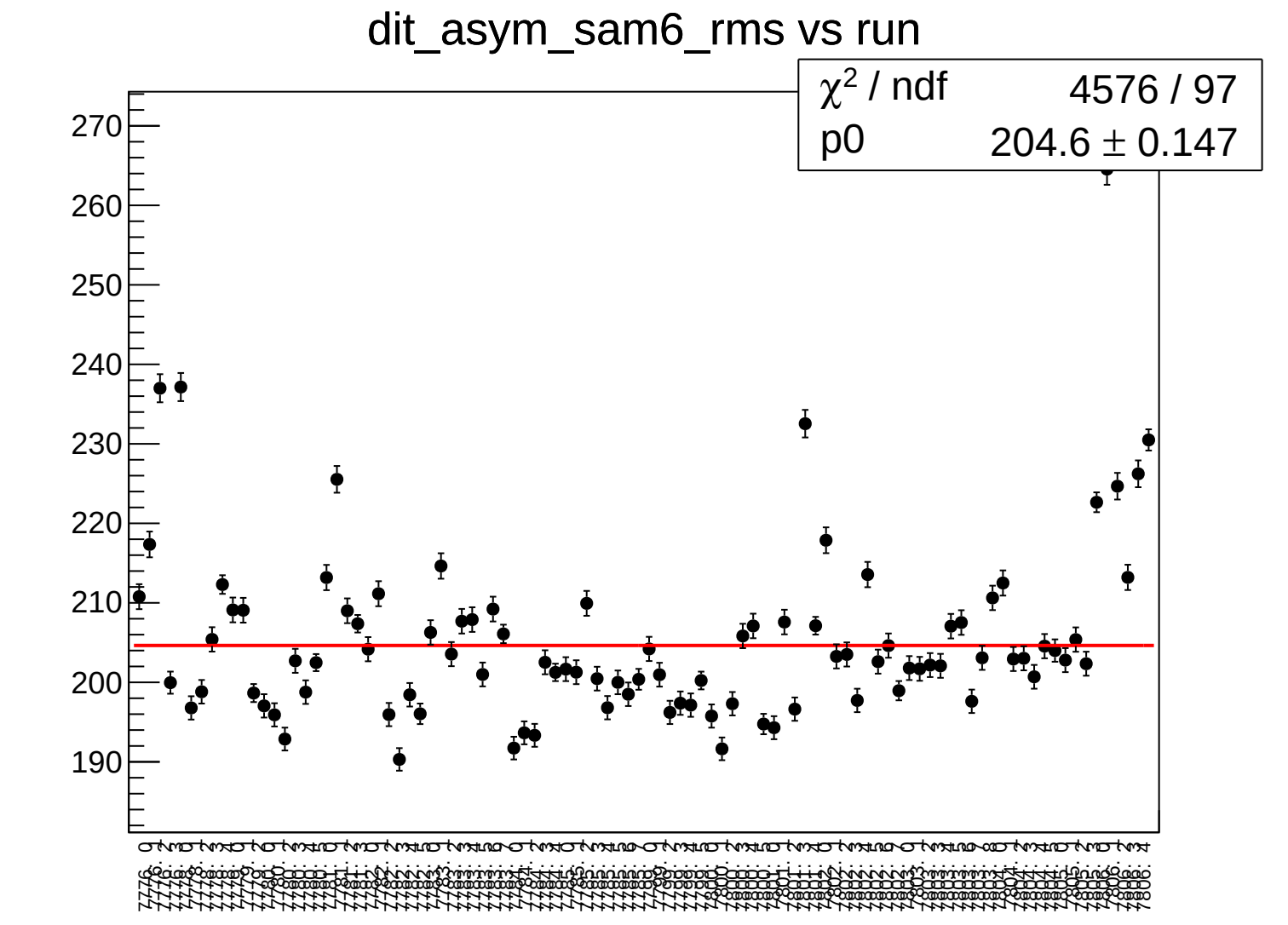

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 77.13 / 97
p0 398.2 ± 1889
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 416.2
Std Dev 0
2
1
0
−1
−2
−3

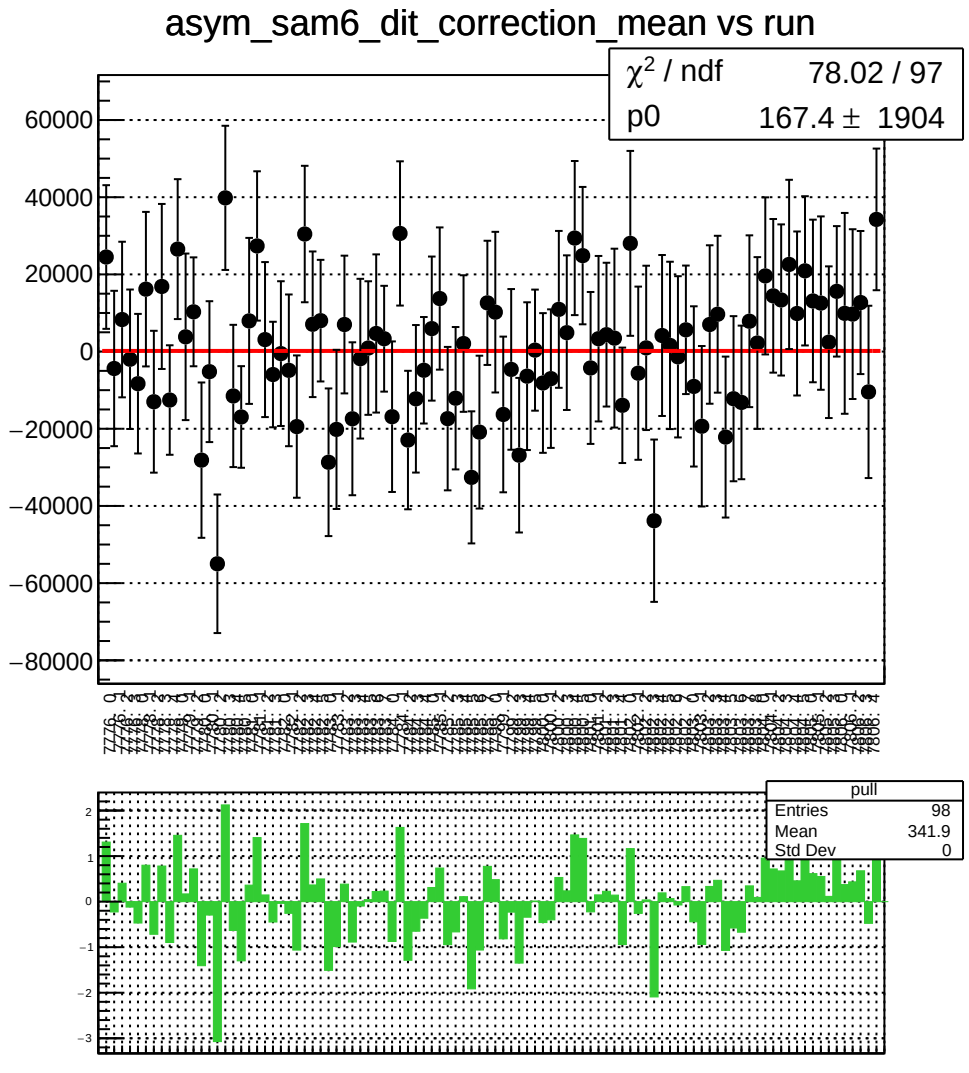

pull1D
Entries 98
Mean 0.00984
Std Dev 0.8871
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

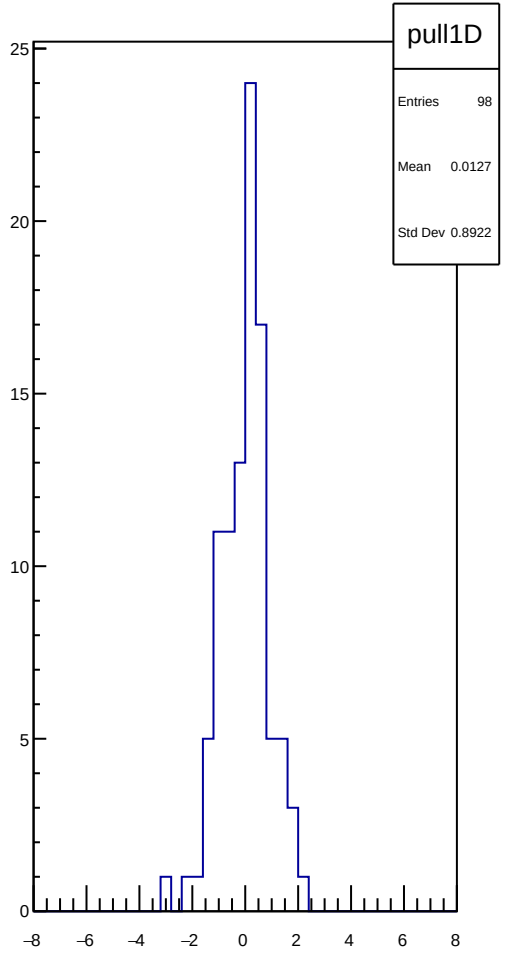

asym_sam6_eigen_cor_correction_rms vs run
χ^2 / ndf 1.376e+04 / 97
p0 1855 ± 1.336
2600
2400
2200
2000
1800
1600

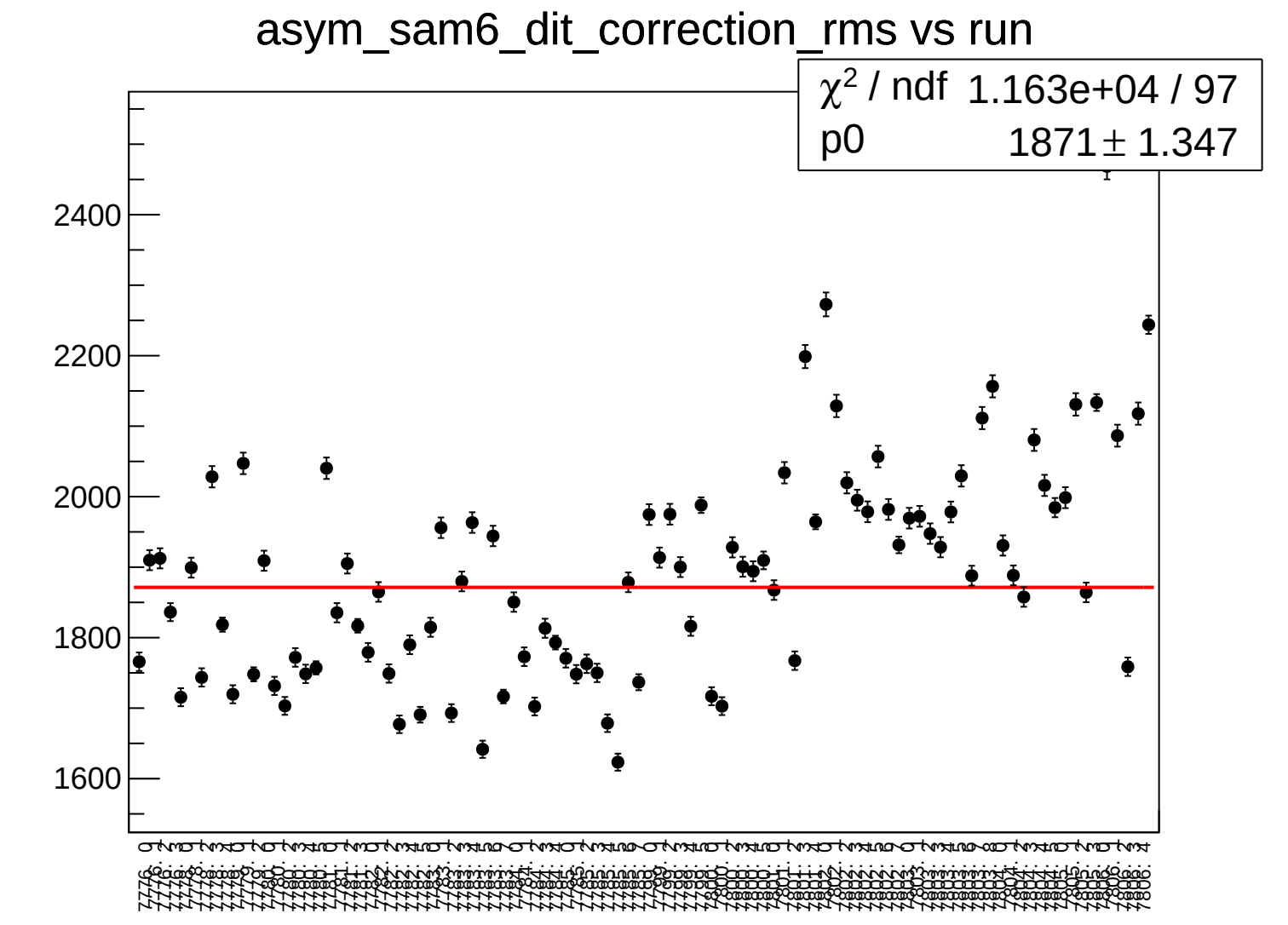

dit_asym_sam6_mean vs run
χ² / ndf 115.2 / 97
p0 −120.9 ± 207.9
pull
Entries 98
Mean 140.9
Std Dev 0

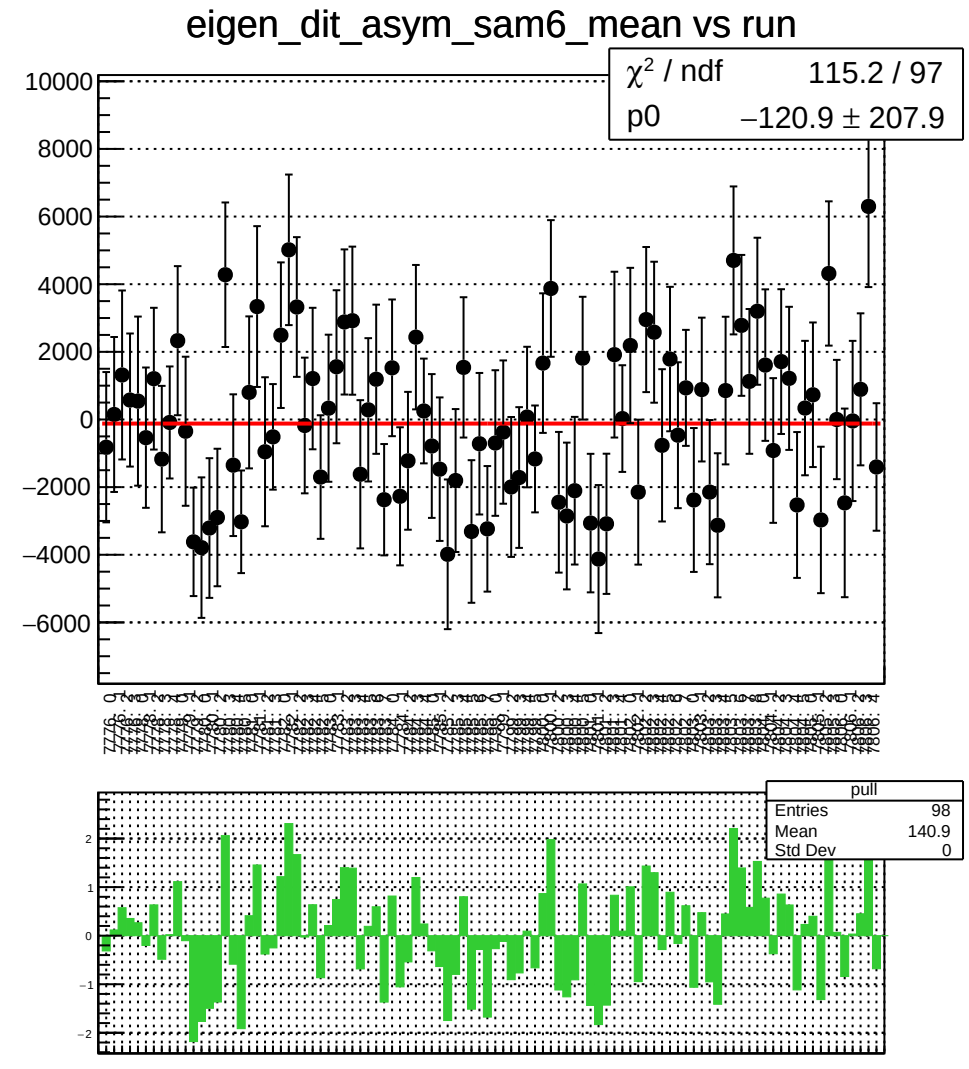

pull1D
Entries 98
Mean 0.03094
Std Dev 1.084

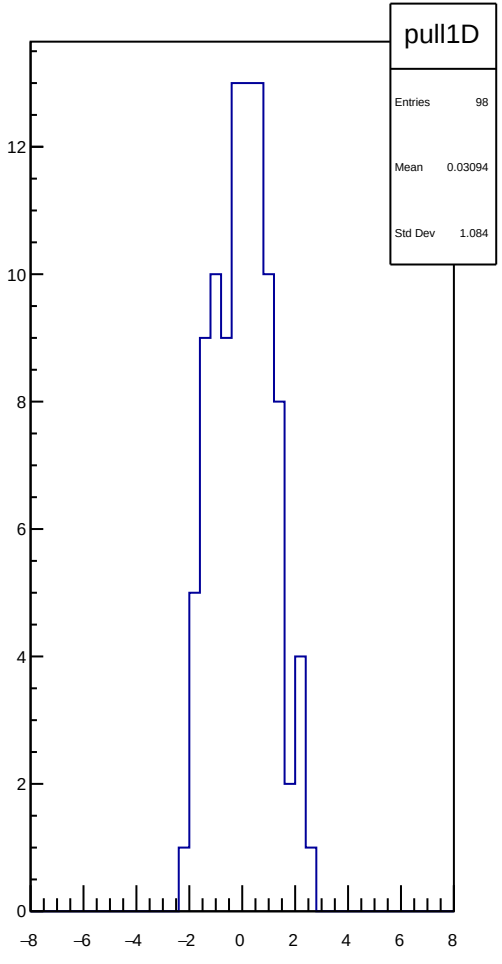

dit_asym_sam6_rms vs run
χ² / ndf 4576 / 97
p0 204.6 ± 0.147
270
260
250
240
230
220
210
200
190

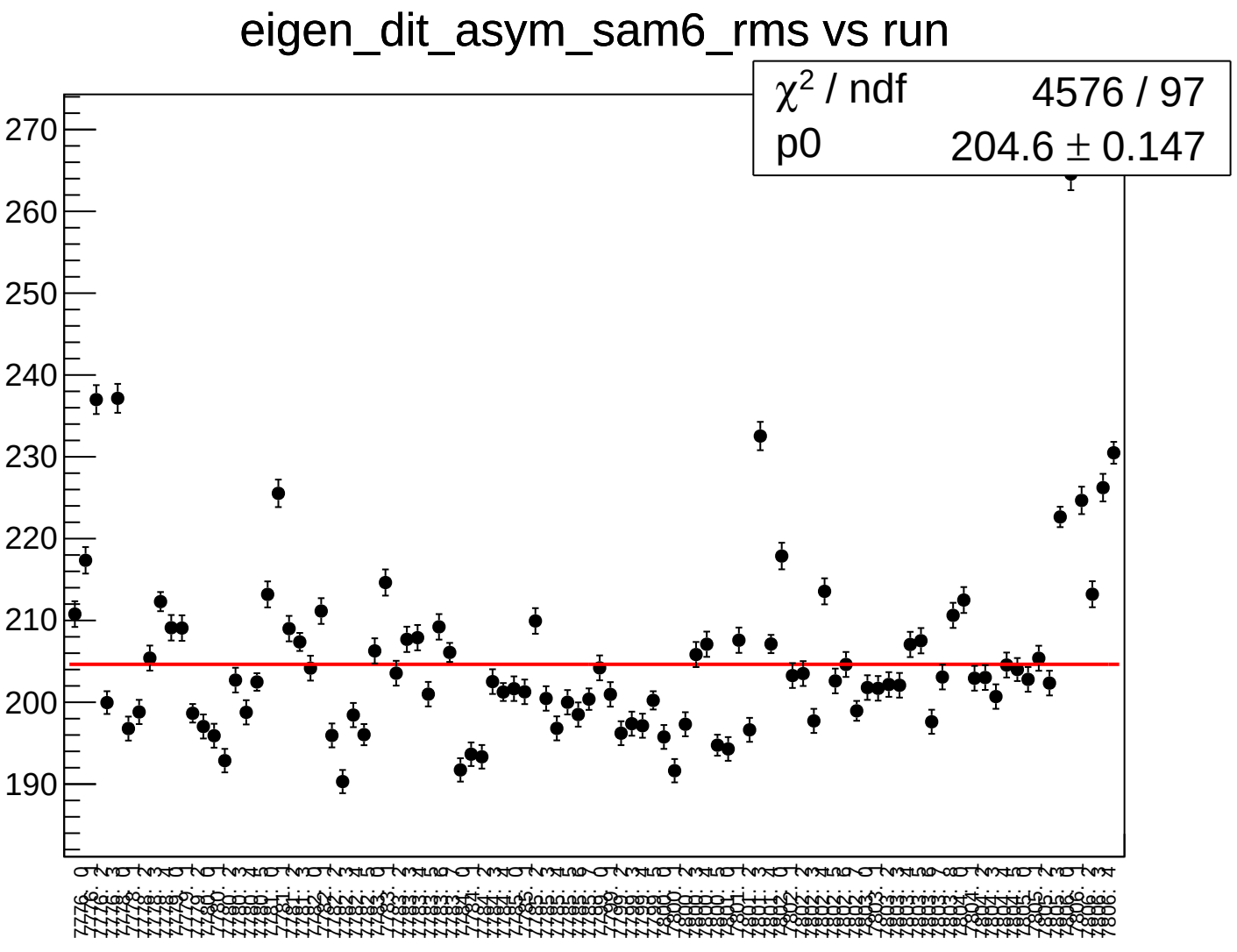

asym_sam6_dit_correction_mean vs run
χ² / ndf 78.02 / 97
p0 167.4 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 341.9
Std Dev 0
2
1
0
−1
−2
−3

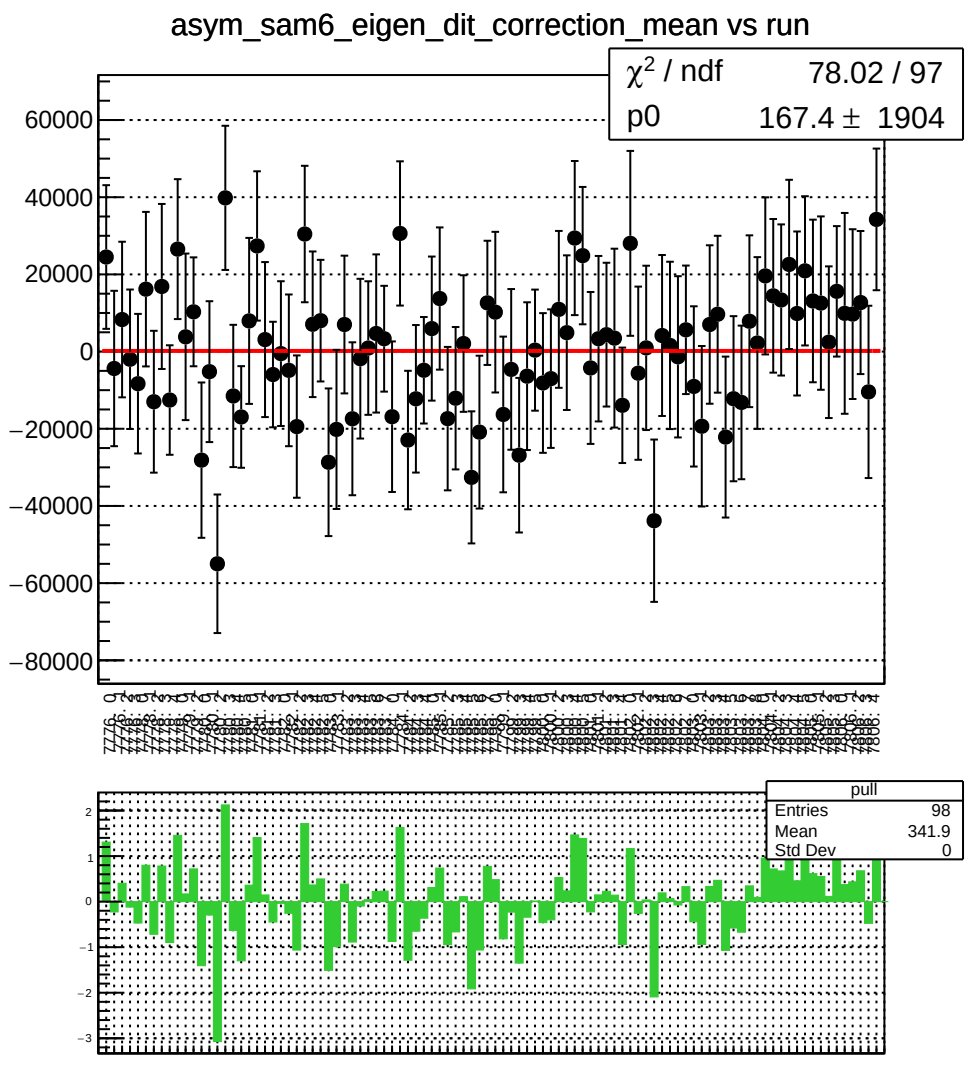

pull1D
Entries 98
Mean 0.0127
Std Dev 0.8922
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

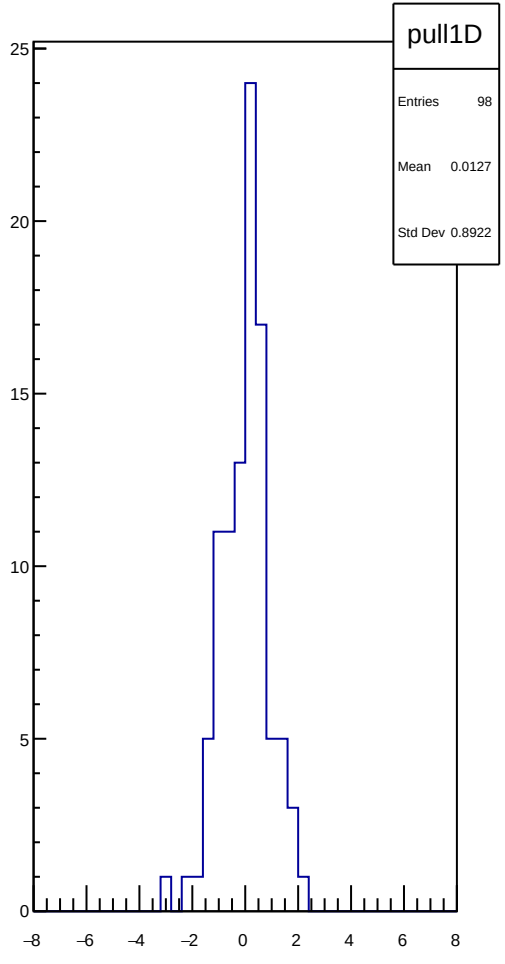

asym_sam6_dit_correction_rms vs run
χ² / ndf 1.163e+04 / 97
p0 1871 ± 1.347
2400
2200
2000
1800
1600

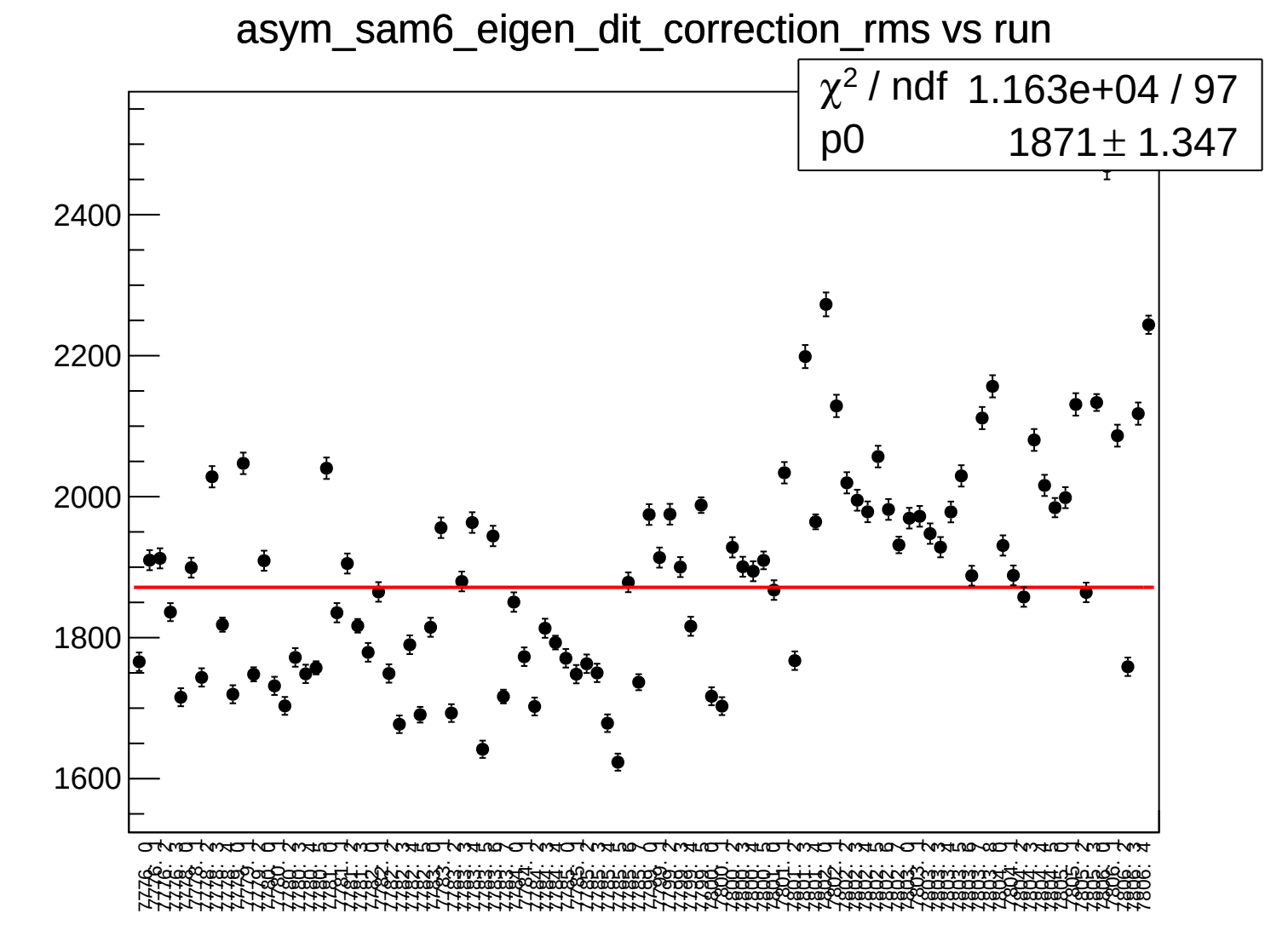

eigen_dit_asym_sam6_mean vs run
χ² / ndf 115.2 / 97
p0 −120.9 ± 207.9
pull
Entries 98
Mean 140.9
Std Dev 0

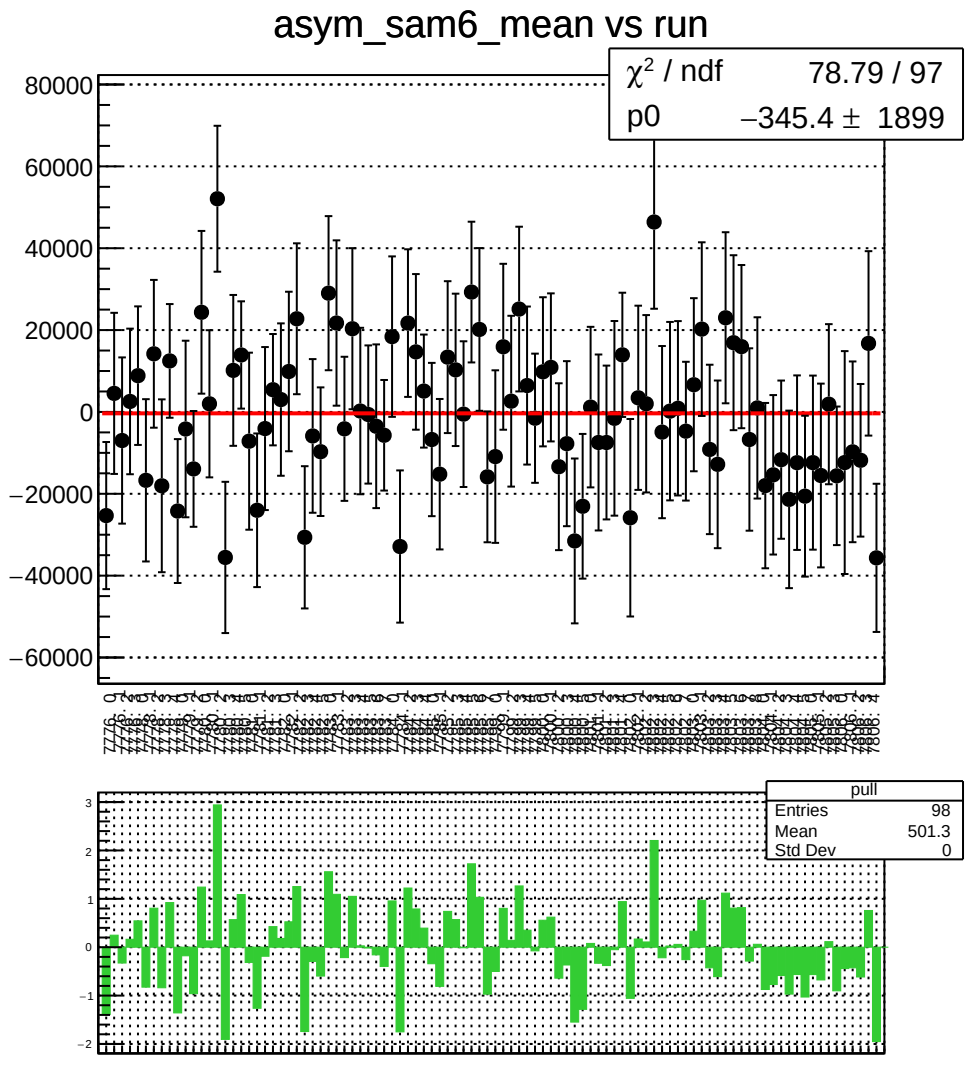

pull1D
Entries 98
Mean 0.03094
Std Dev 1.084

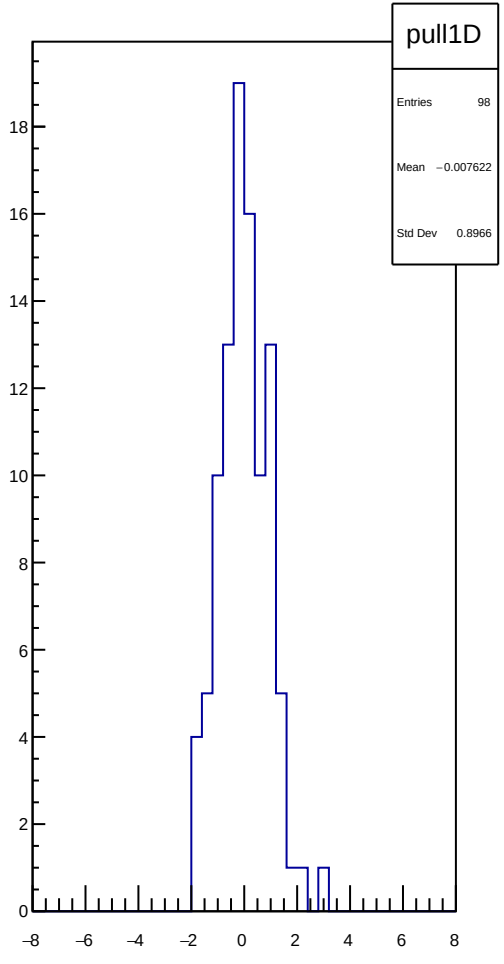

eigen_dit_asym_sam6_rms vs run
χ² / ndf 4576 / 97
p0 204.6 ± 0.147
270
260
250
240
230
220
210
200
190

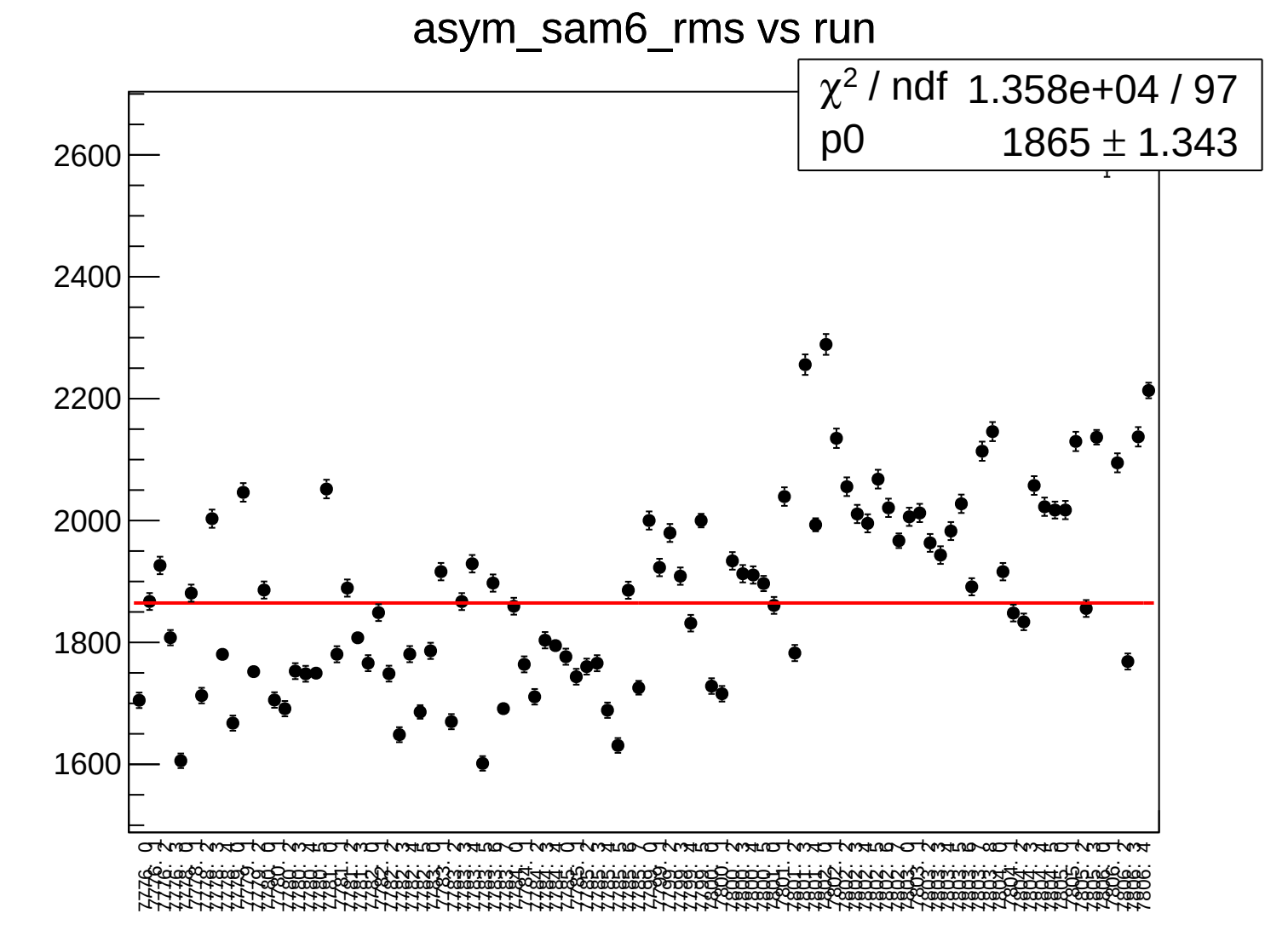

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 78.02 / 97
p0 167.4 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean 341.9
Std Dev 0
2
1
0
−1
−2
−3

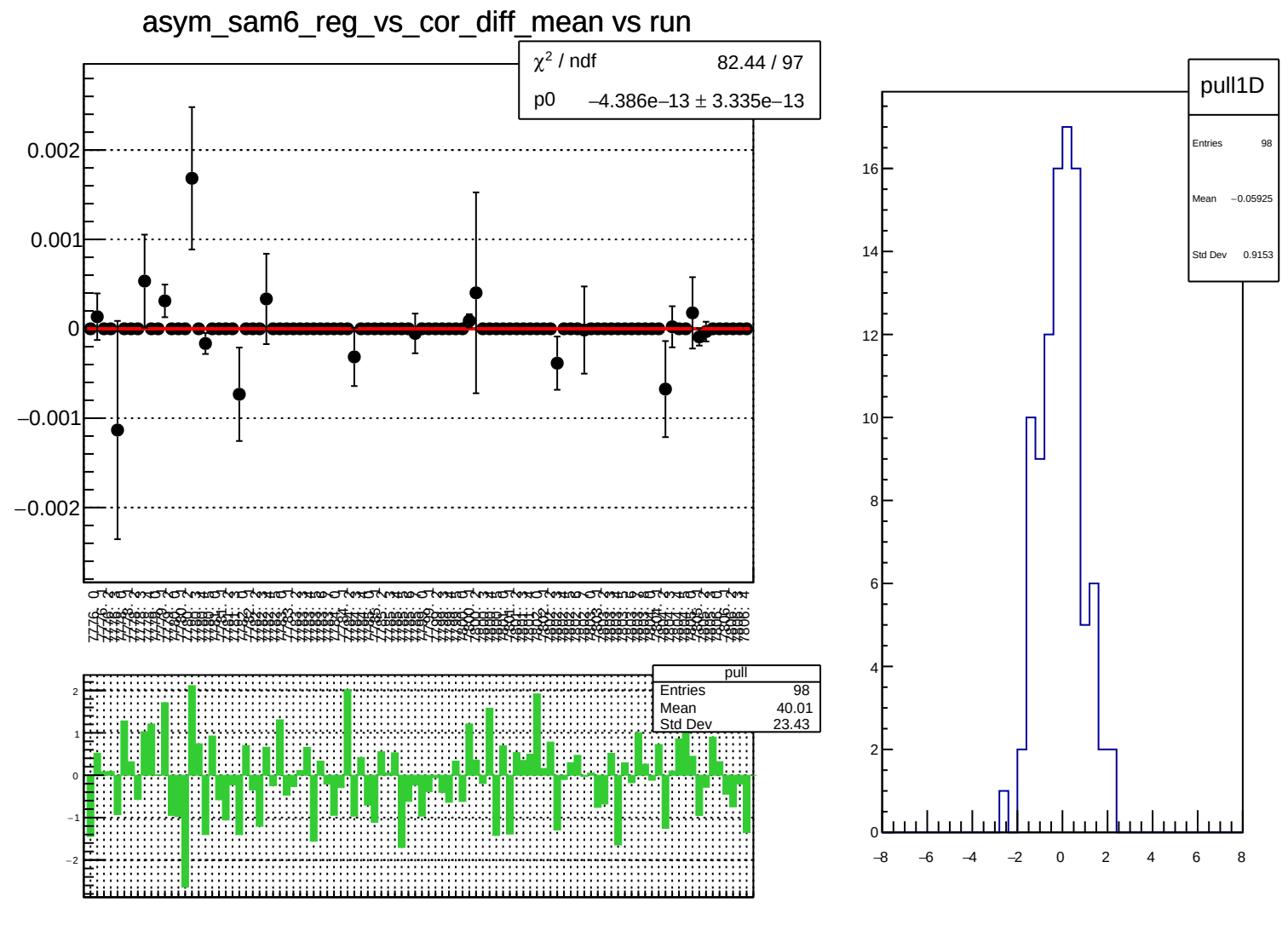

pull1D
Entries 98
Mean 0.0127
Std Dev 0.8922
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

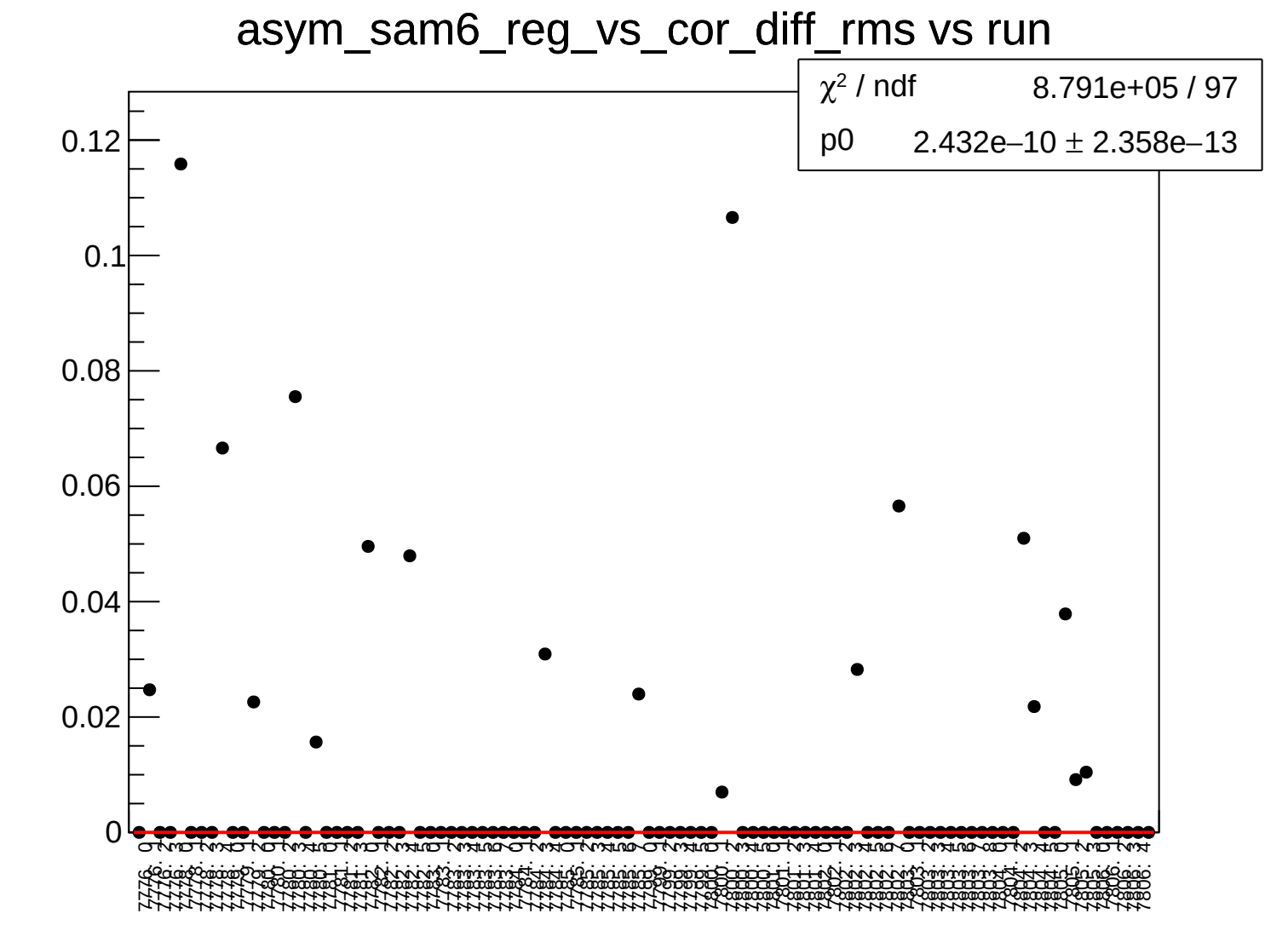

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1.163e+04 / 97
p0 1871 ± 1.347
2400
2200
2000
1800
1600

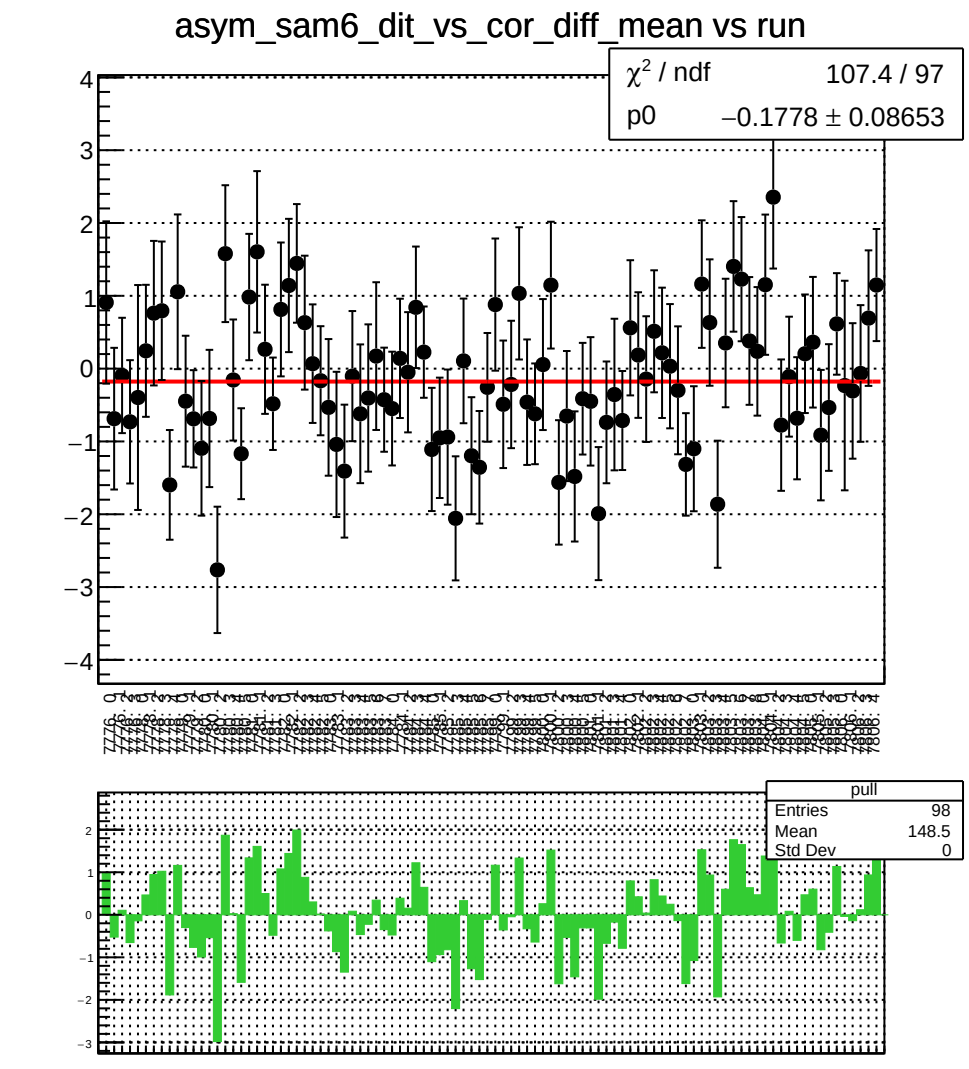

asym_sam6_mean vs run
χ² / ndf 78.79 / 97
p0 −345.4 ± 1899
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 501.3
Std Dev 0
3
2
1
0
−1
−2

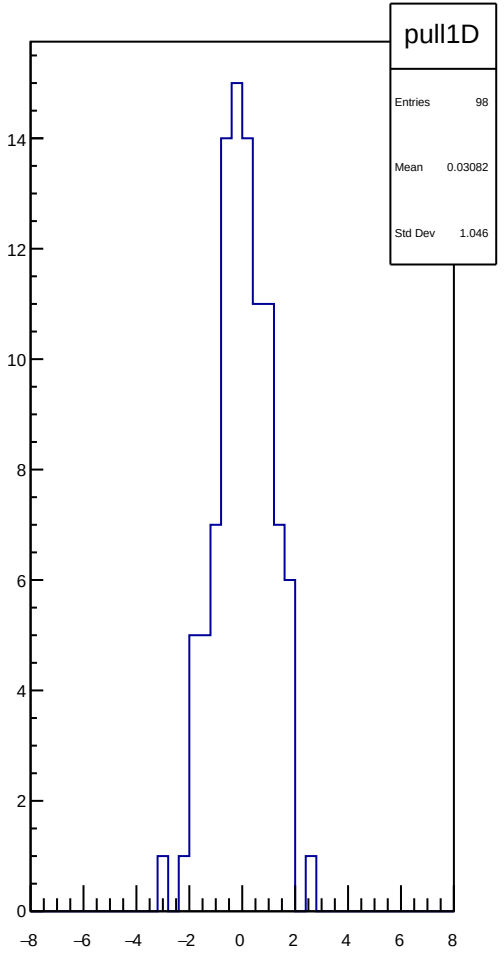

pull1D
Entries 98
Mean −0.007622
Std Dev 0.8966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

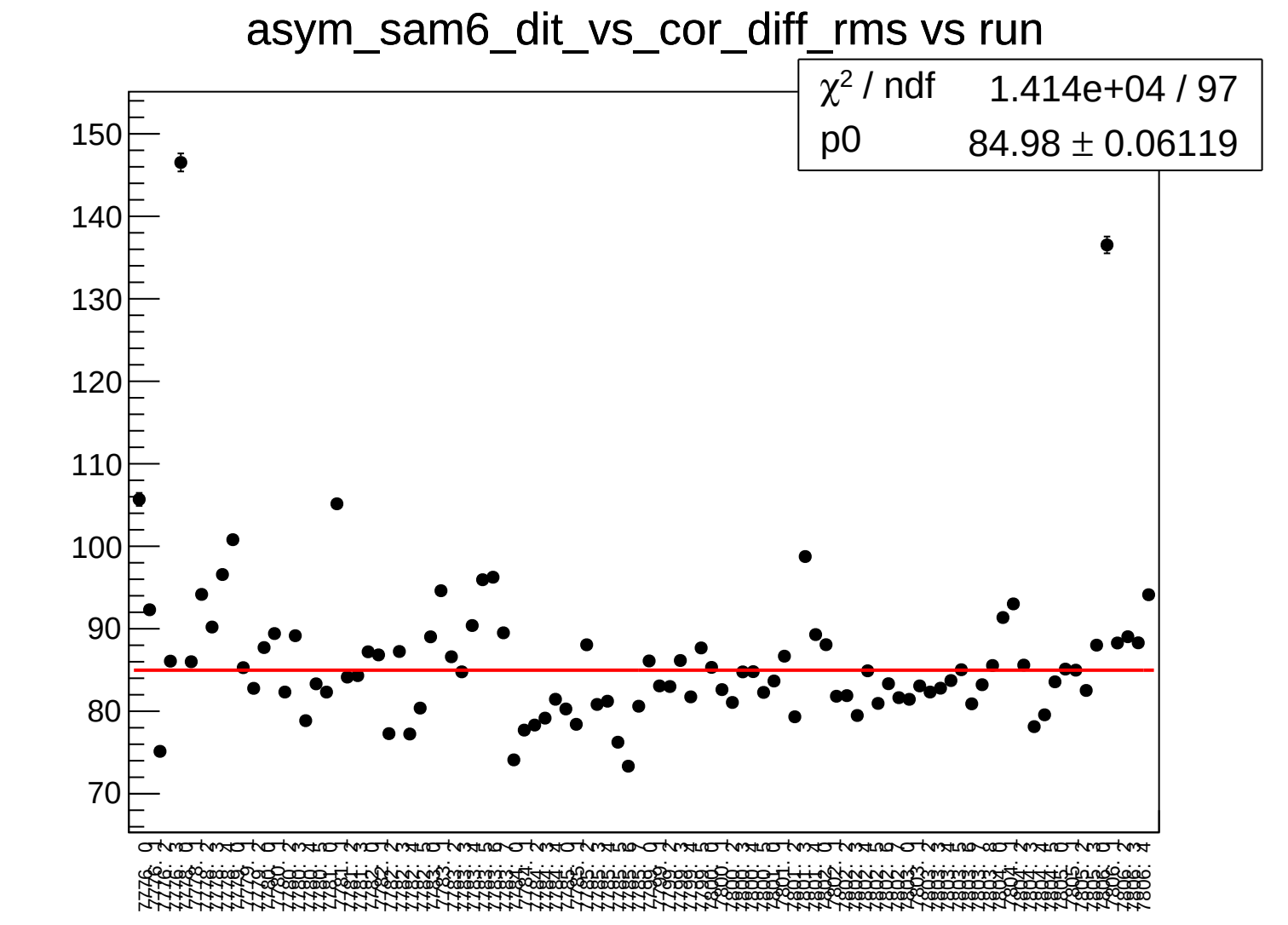

asym_sam6_rms vs run
χ^2 / ndf 1.358e+04 / 97
p0 1865 ± 1.343
2600
2400
2200
2000
1800
1600

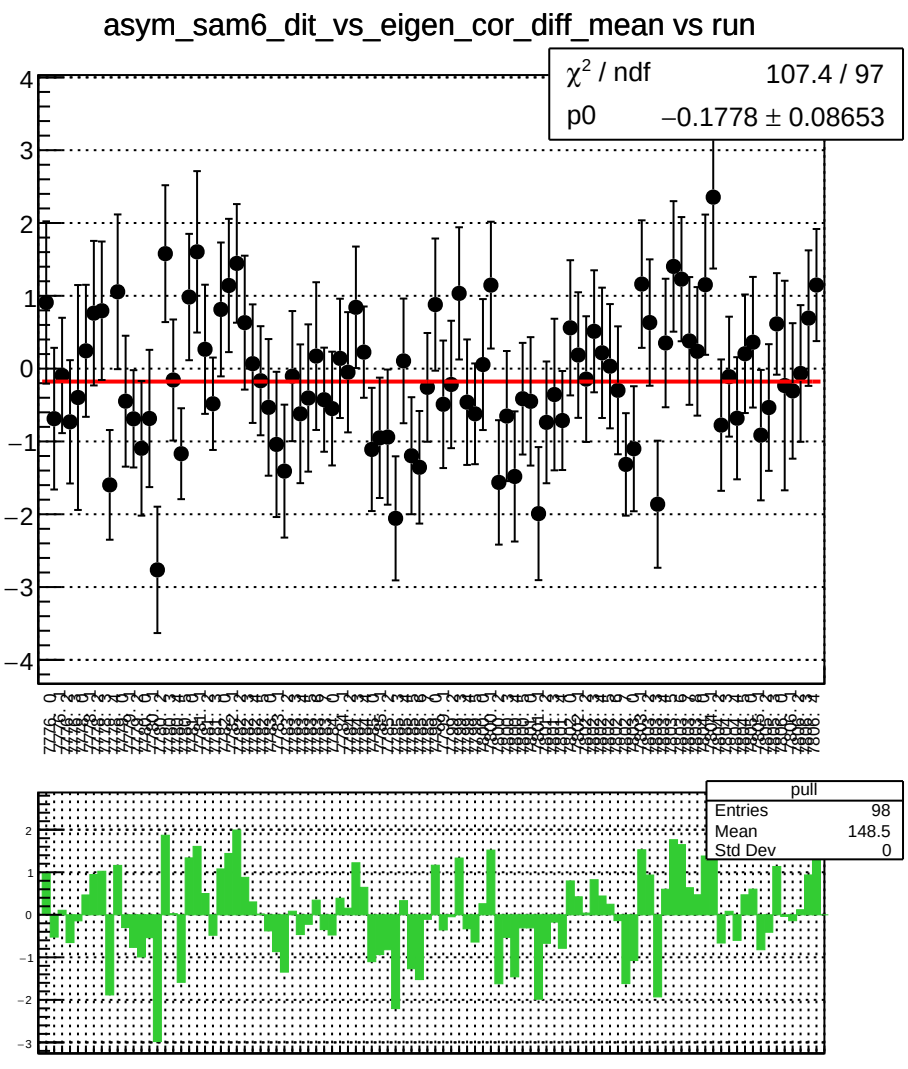

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 82.44 / 97
p0 −4.386e−13 ± 3.335e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 98
Mean 40.01
Std Dev 23.43
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.05925
Std Dev 0.9153
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

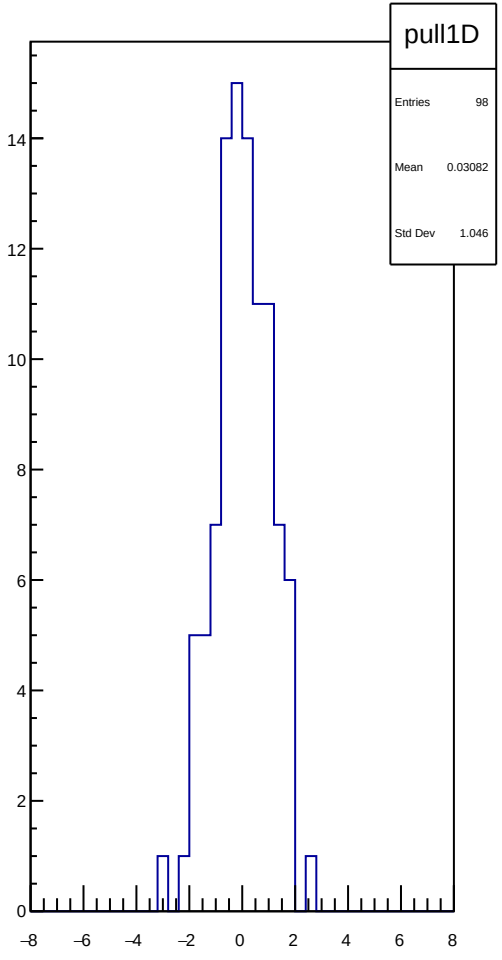

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 8.791e+05 / 97
p0 2.432e−10 ± 2.358e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

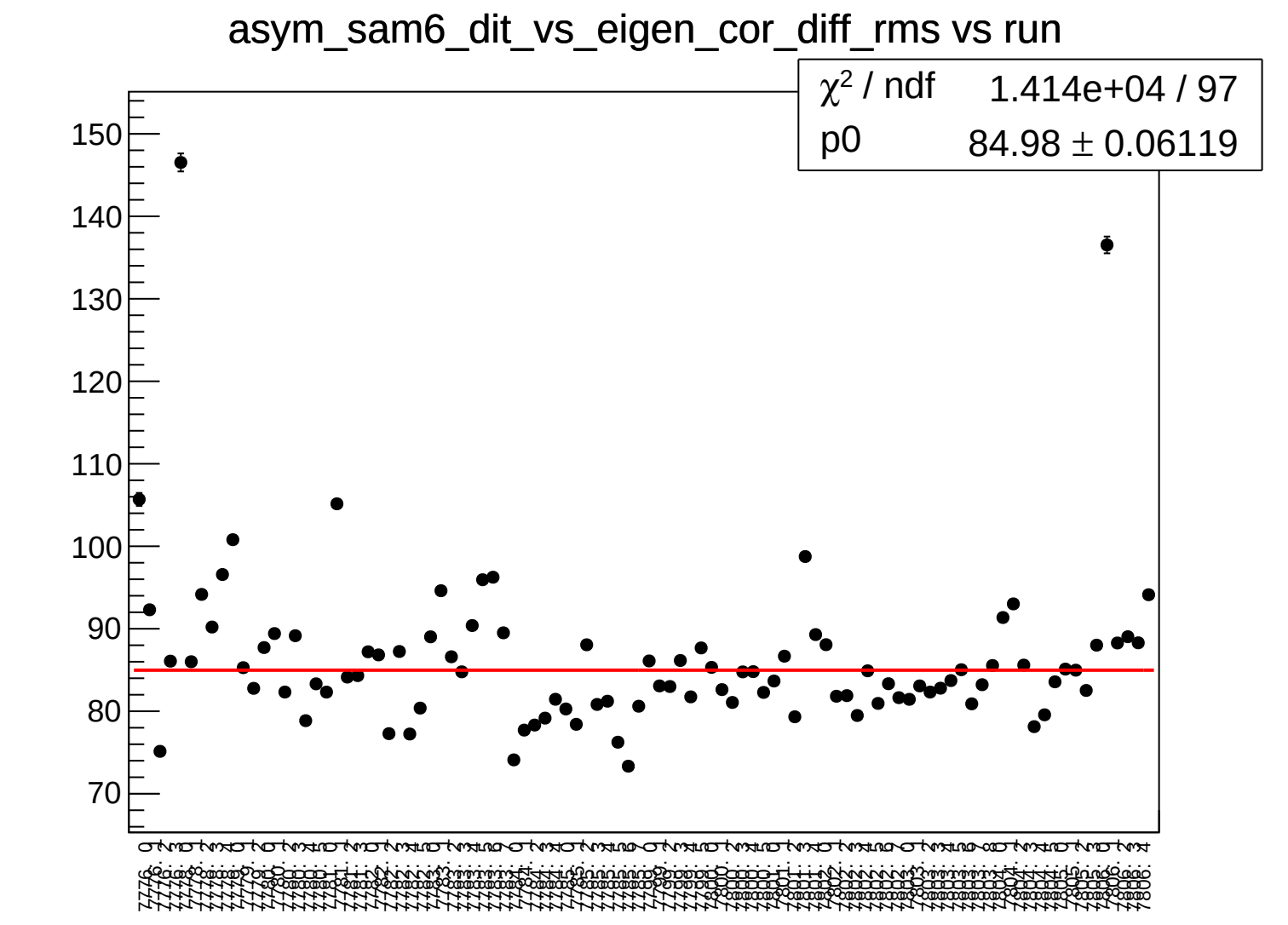

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 97
p0 −0.1778 ± 0.08653
pull
Entries 98
Mean 148.5
Std Dev 0

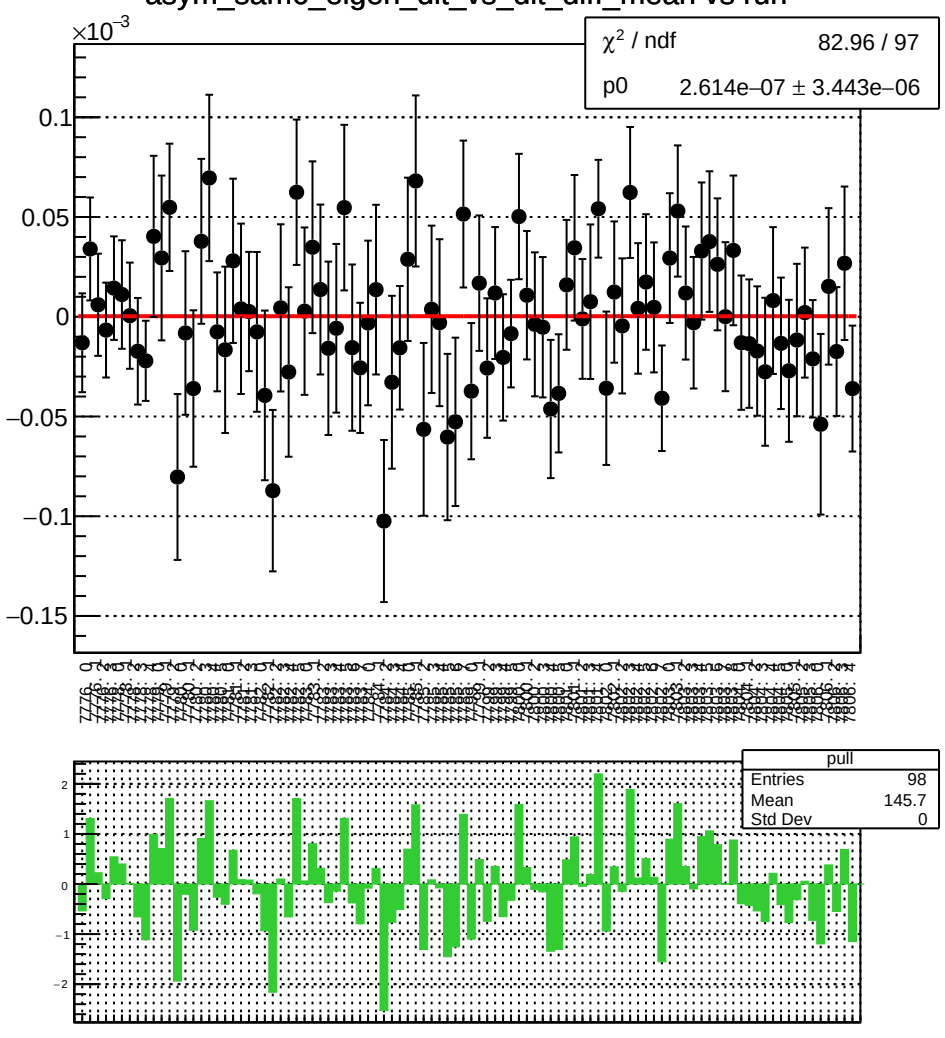

pull1D
Entries 98
Mean 0.03082
Std Dev 1.046

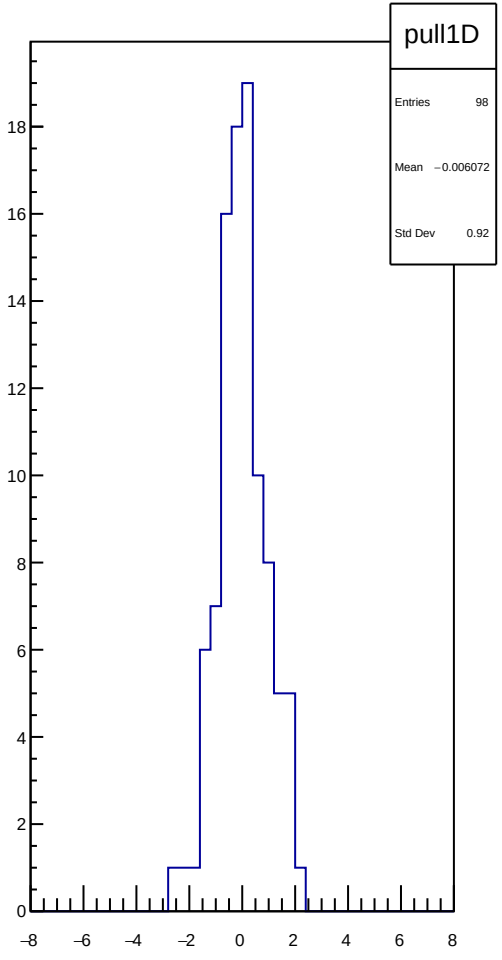

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 1.414e+04 / 97
p0 84.98 ± 0.06119
150
140
130
120
110
100
90
80
70

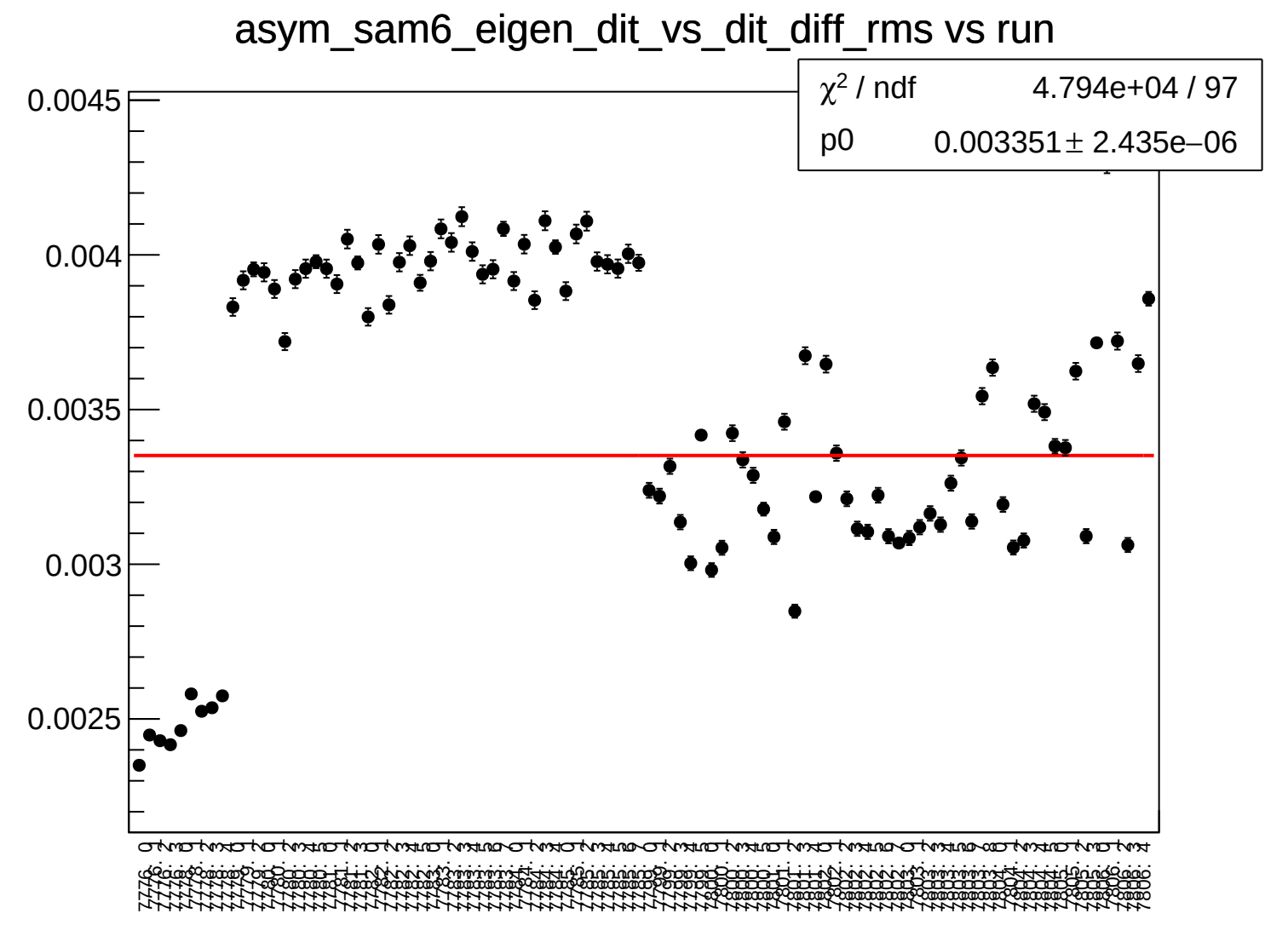

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 97
p0 −0.1778 ± 0.08653
pull
Entries 98
Mean 148.5
Std Dev 0

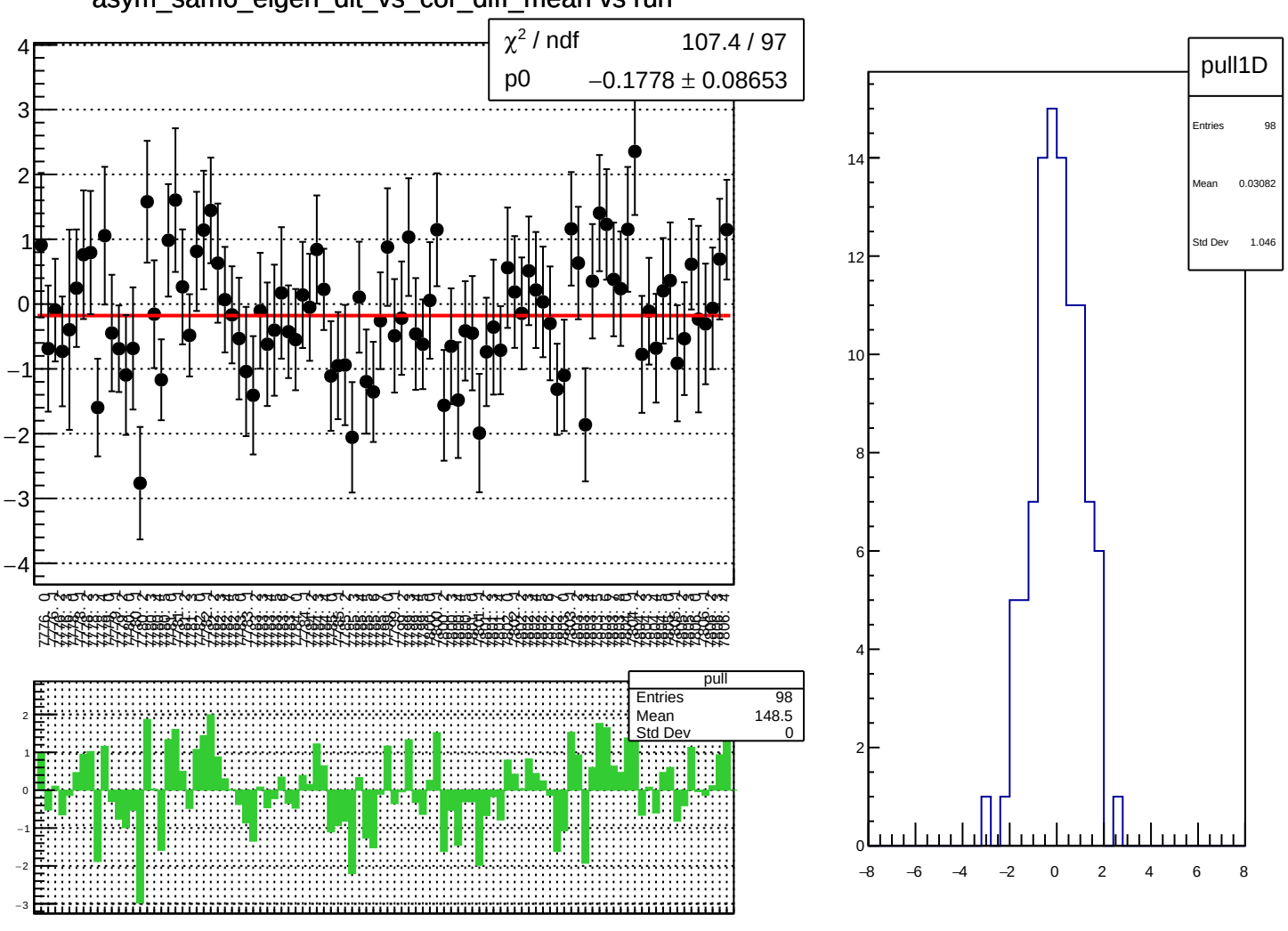

pull1D
Entries 98
Mean 0.03082
Std Dev 1.046

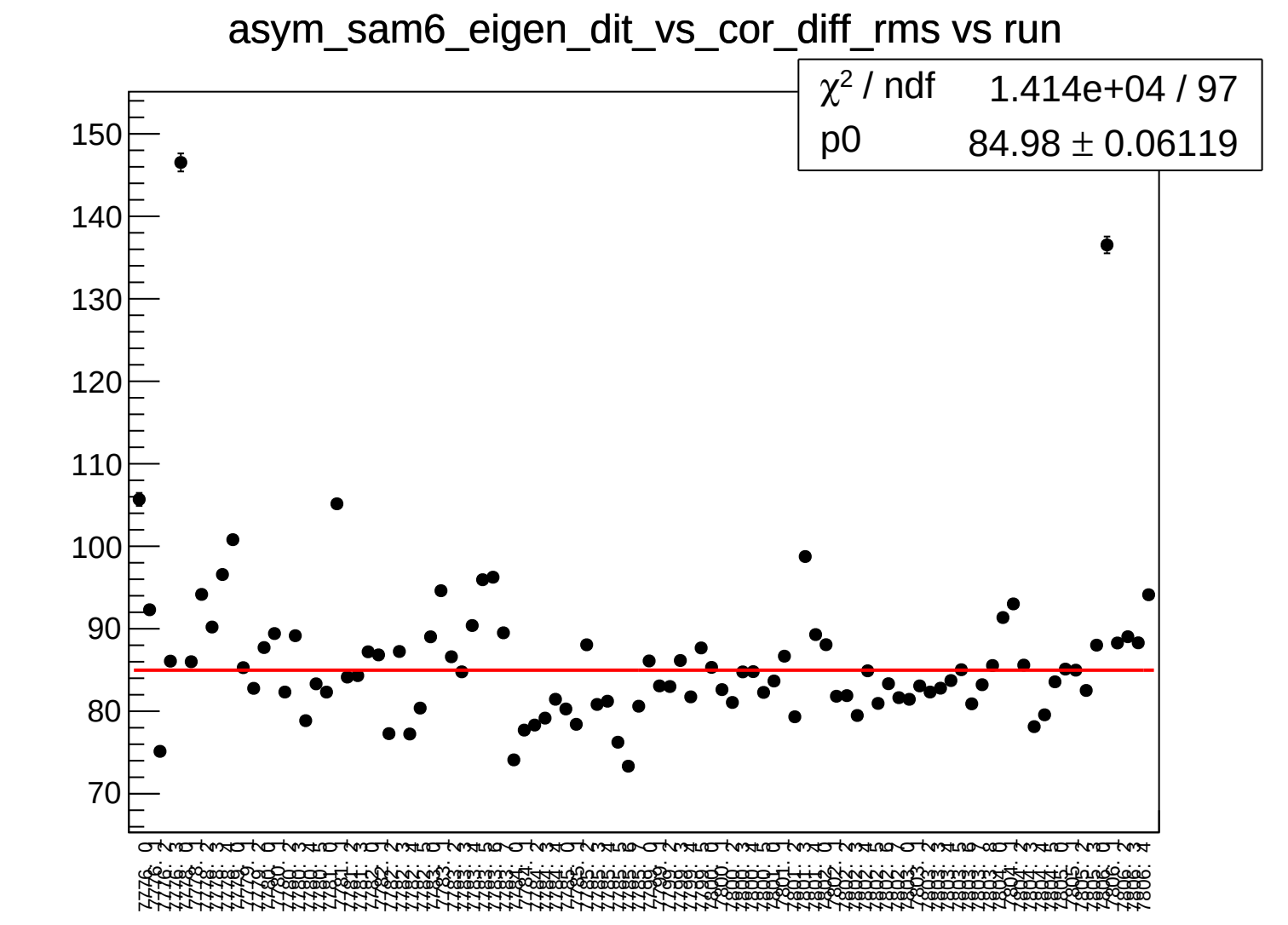

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.414e+04 / 97
p0 84.98 ± 0.06119
150
140
130
120
110
100
90
80
70

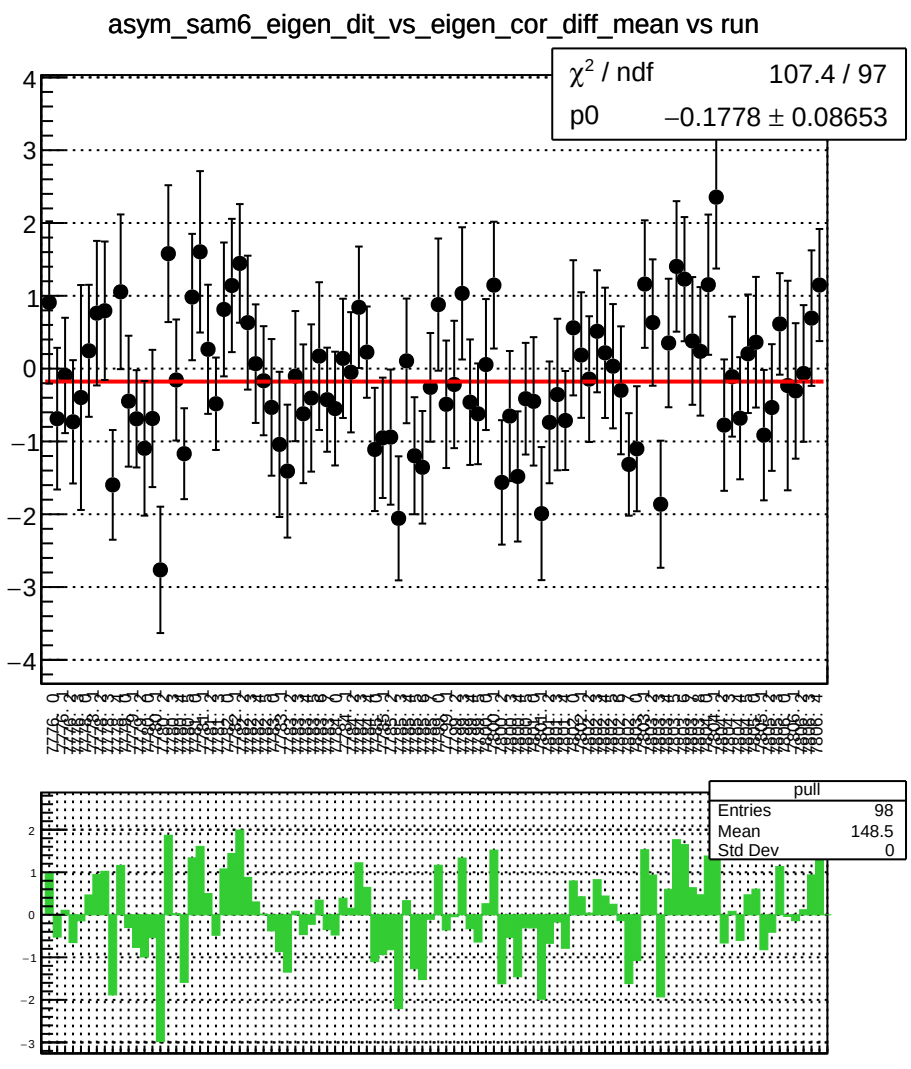

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.96 / 97
p0 2.614e−07 ± 3.443e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 98
Mean 145.7
Std Dev 0
2
1
0
−1
−2

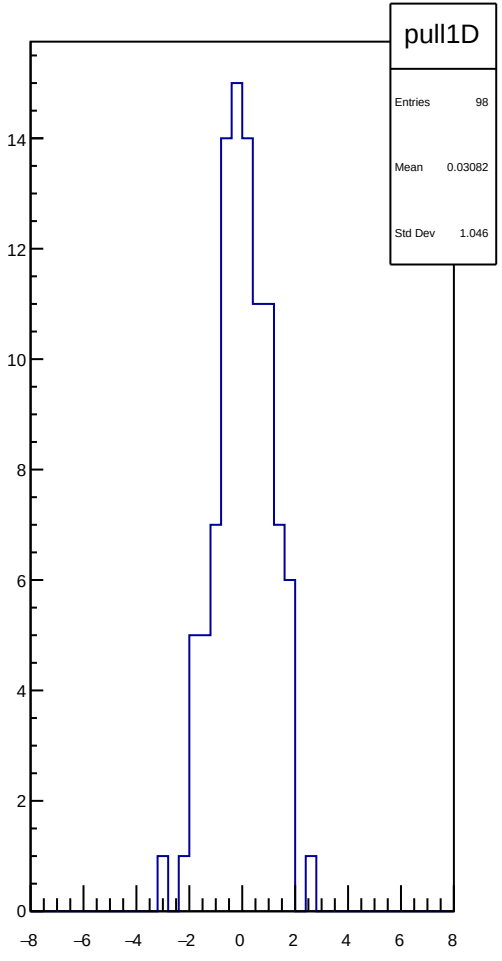

pull1D
Entries 98
Mean −0.006072
Std Dev 0.92
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

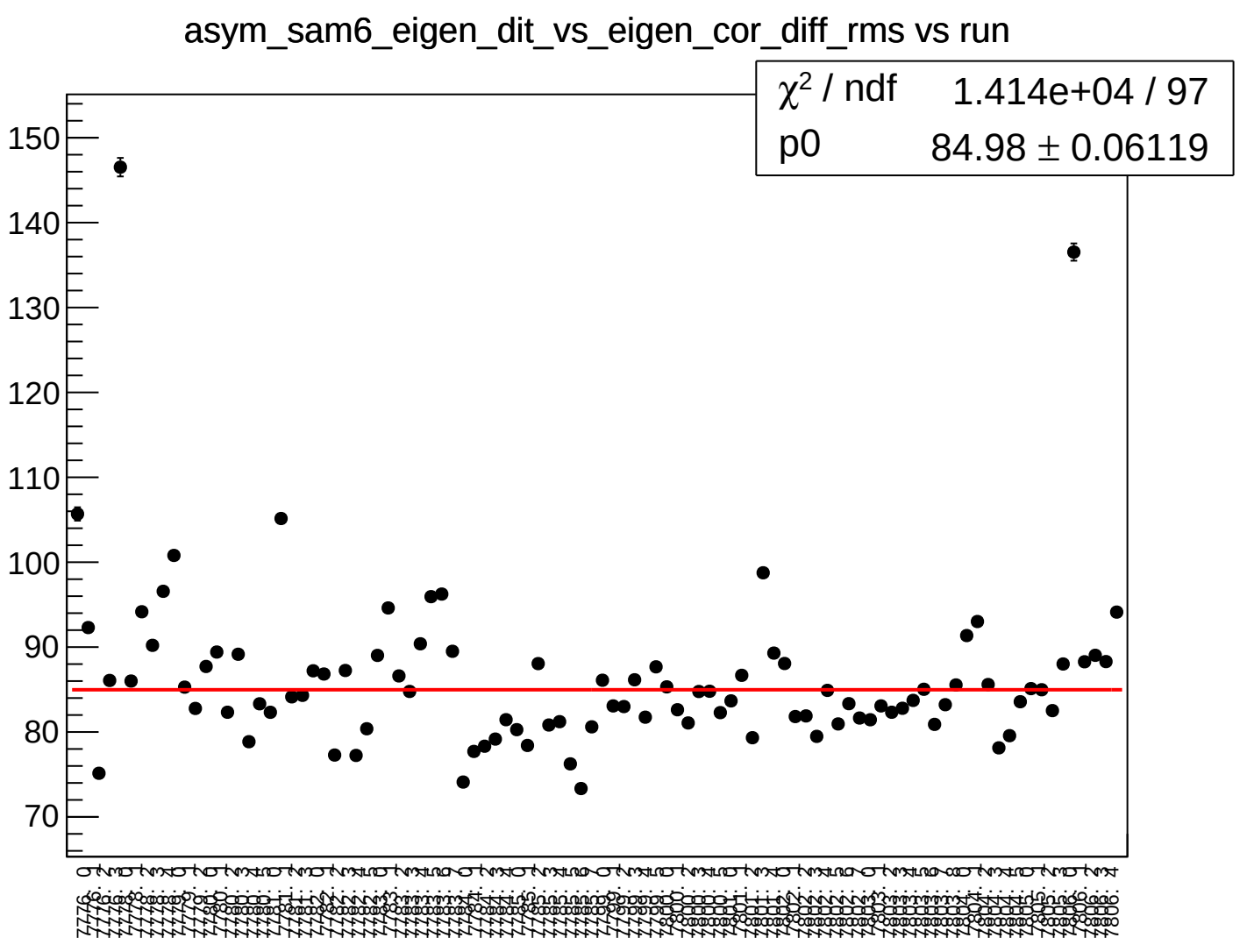

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.794e+04 / 97
p0 0.003351 ± 2.435e−06
0.0045
0.004
0.0035
0.003
0.0025

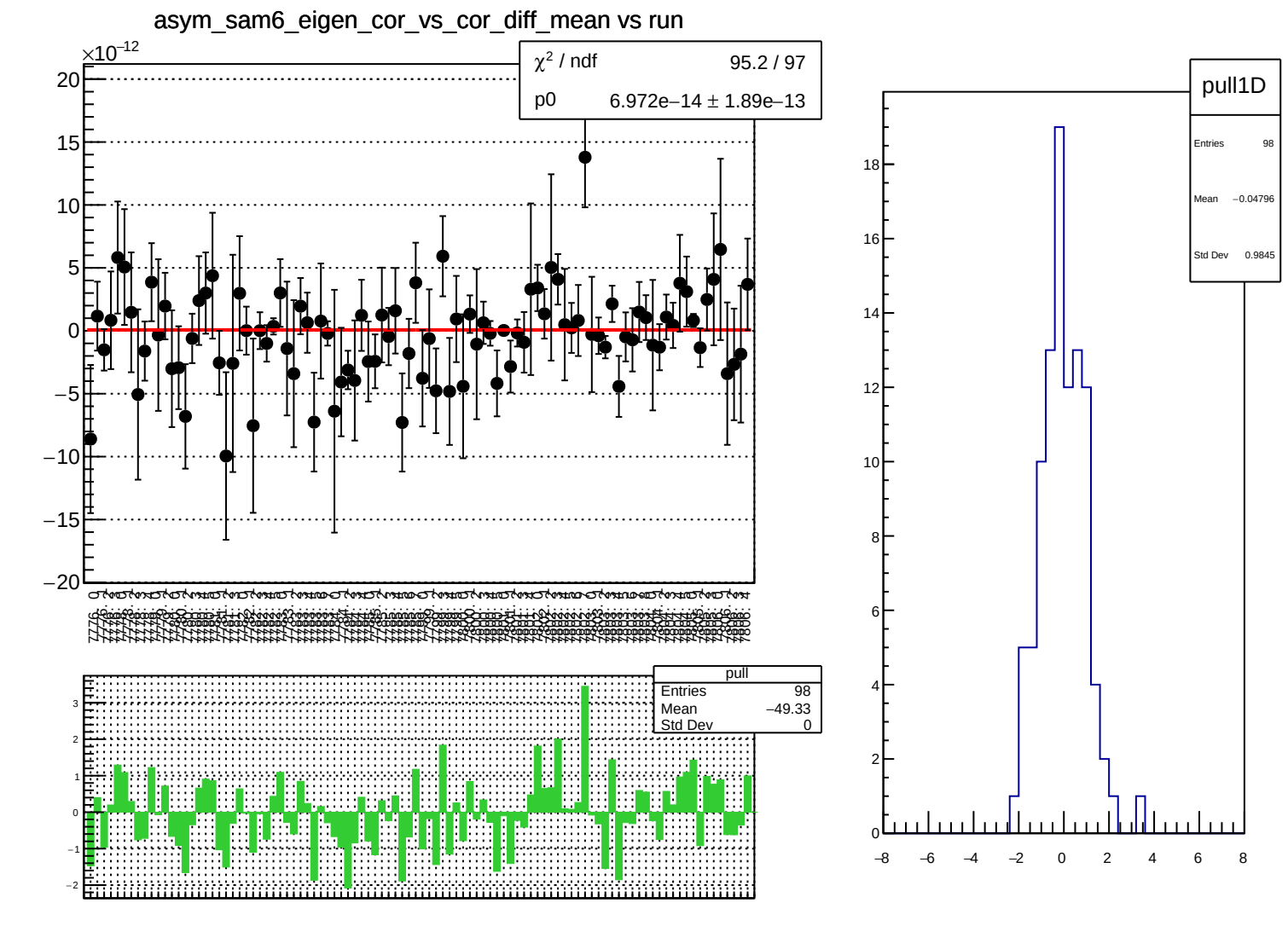

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 97
p0 −0.1778 ± 0.08653
pull
Entries 98
Mean 148.5
Std Dev 0
pull1D
Entries 98
Mean 0.03082
Std Dev 1.046

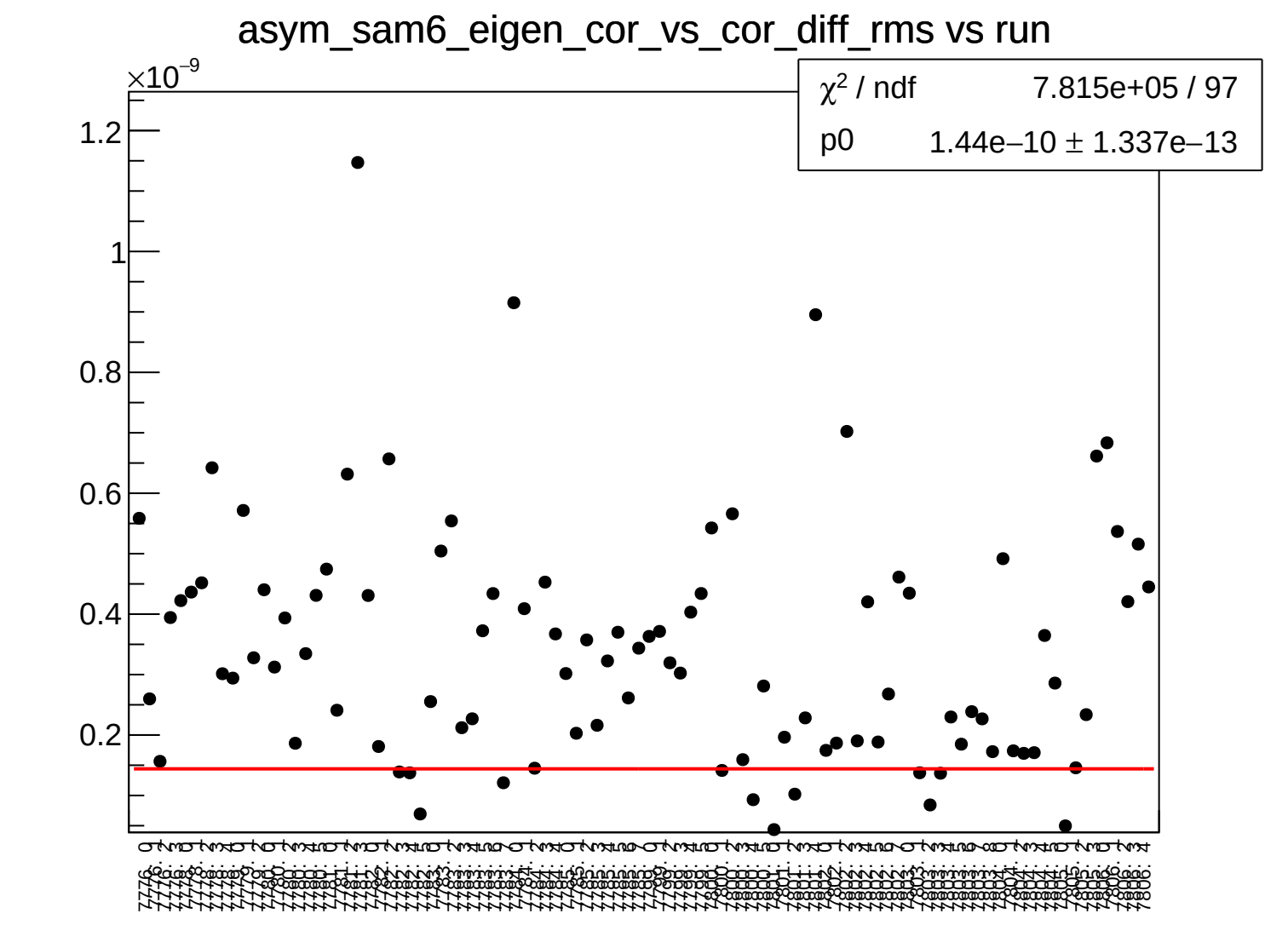

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.414e+04 / 97
p0 84.98 ± 0.06119
150
140
130
120
110
100
90
80
70

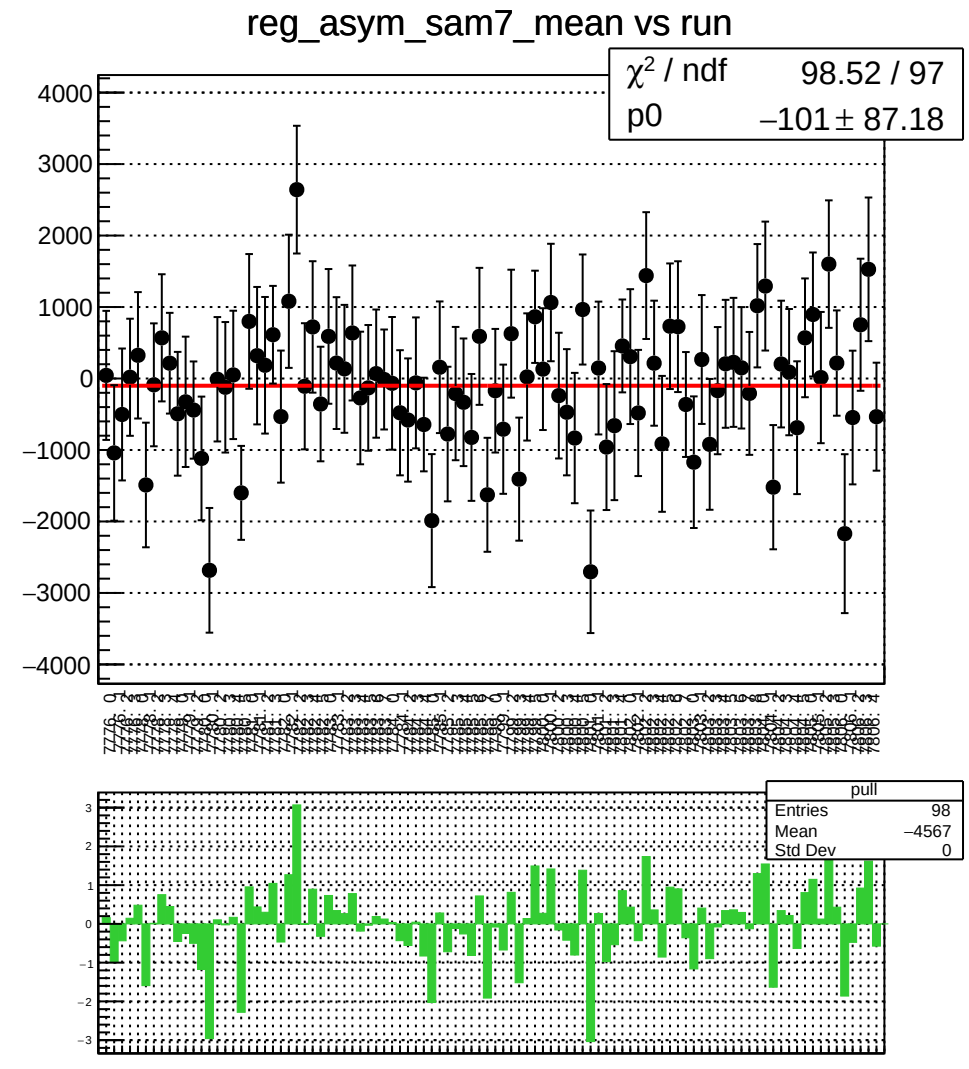

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 97
p0 −0.1778 ± 0.08653
pull
Entries 98
Mean 148.5
Std Dev 0

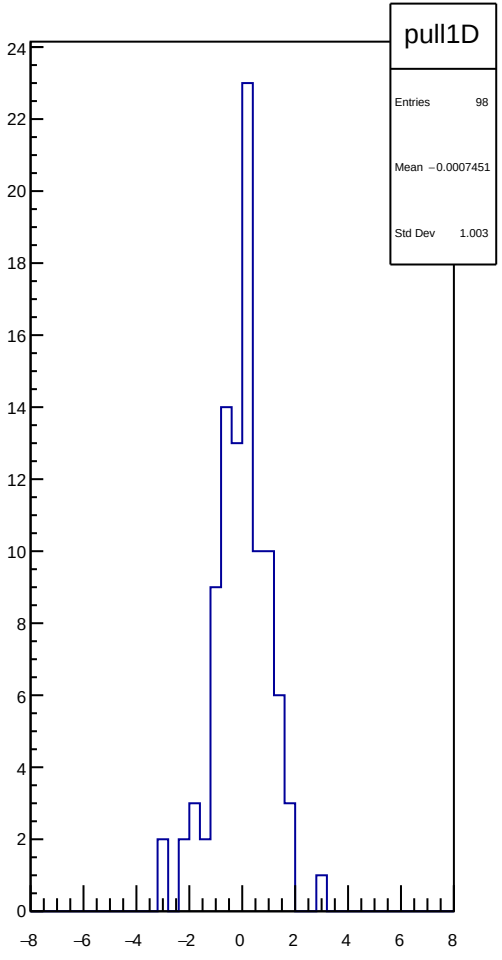

pull1D
Entries 98
Mean 0.03082
Std Dev 1.046

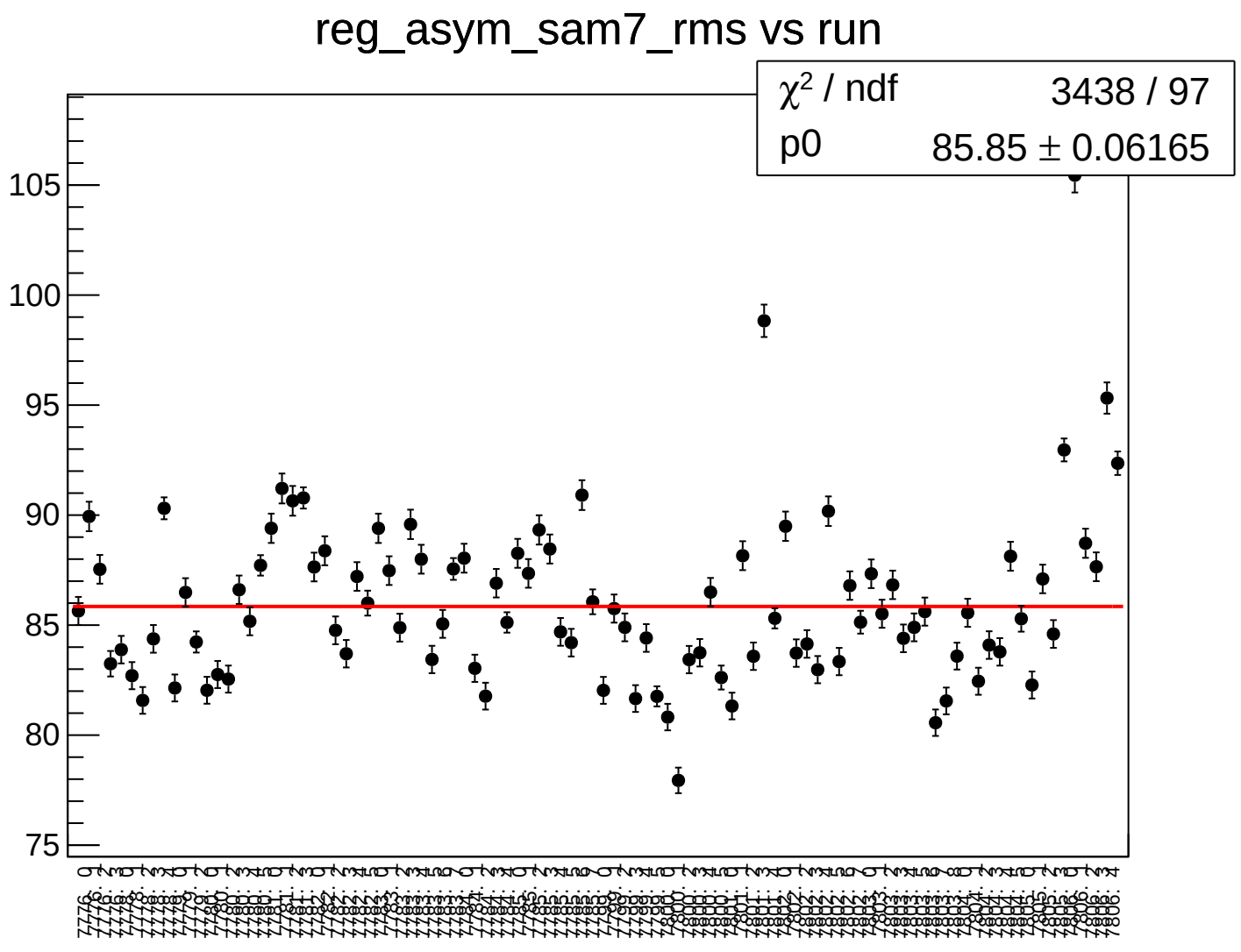

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.414e+04 / 97
p0 84.98 ± 0.06119
150
140
130
120
110
100
90
80
70

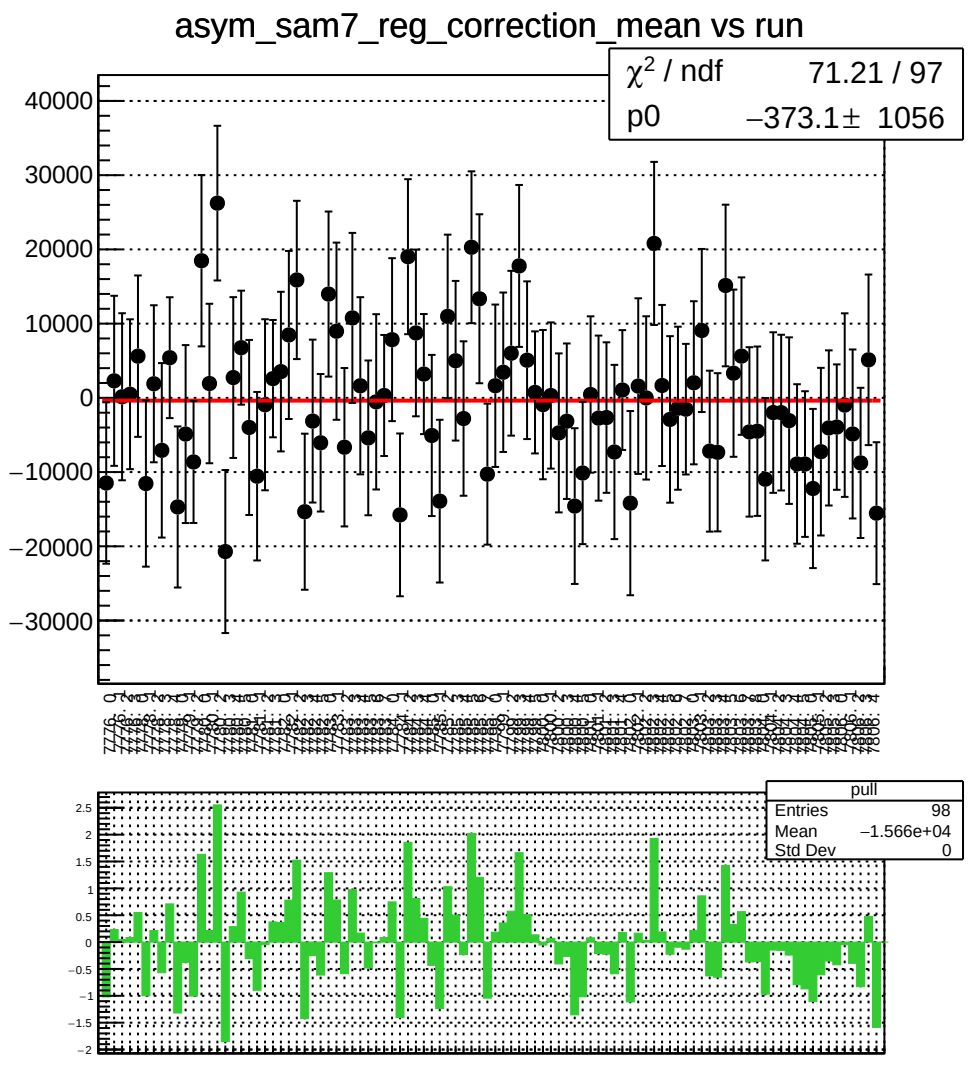

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.2 / 97
p0 6.972e−14 ± 1.89e−13
pull
Entries 98
Mean −49.33
Std Dev 0
pull1D
Entries 98
Mean −0.04796
Std Dev 0.9845

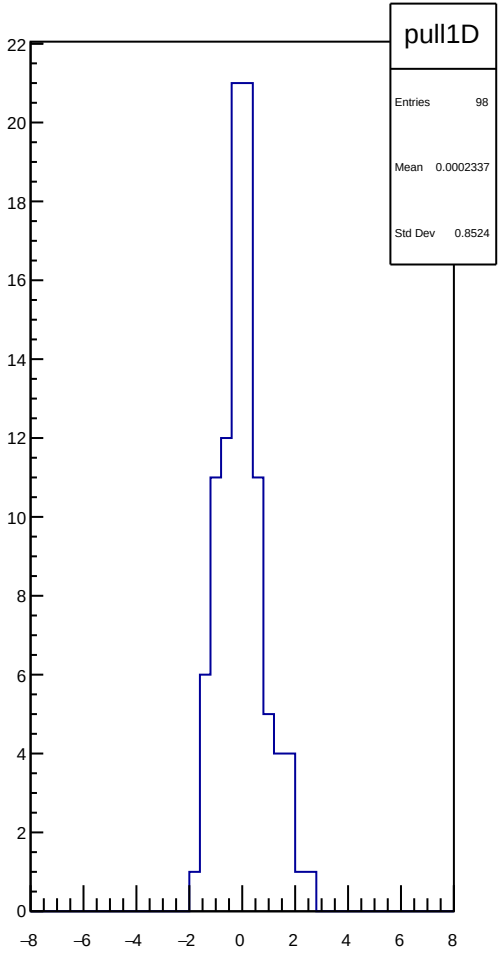

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.815e+05 / 97
p0 1.44e−10 ± 1.337e−13
1.2
1
0.8
0.6
0.4
0.2

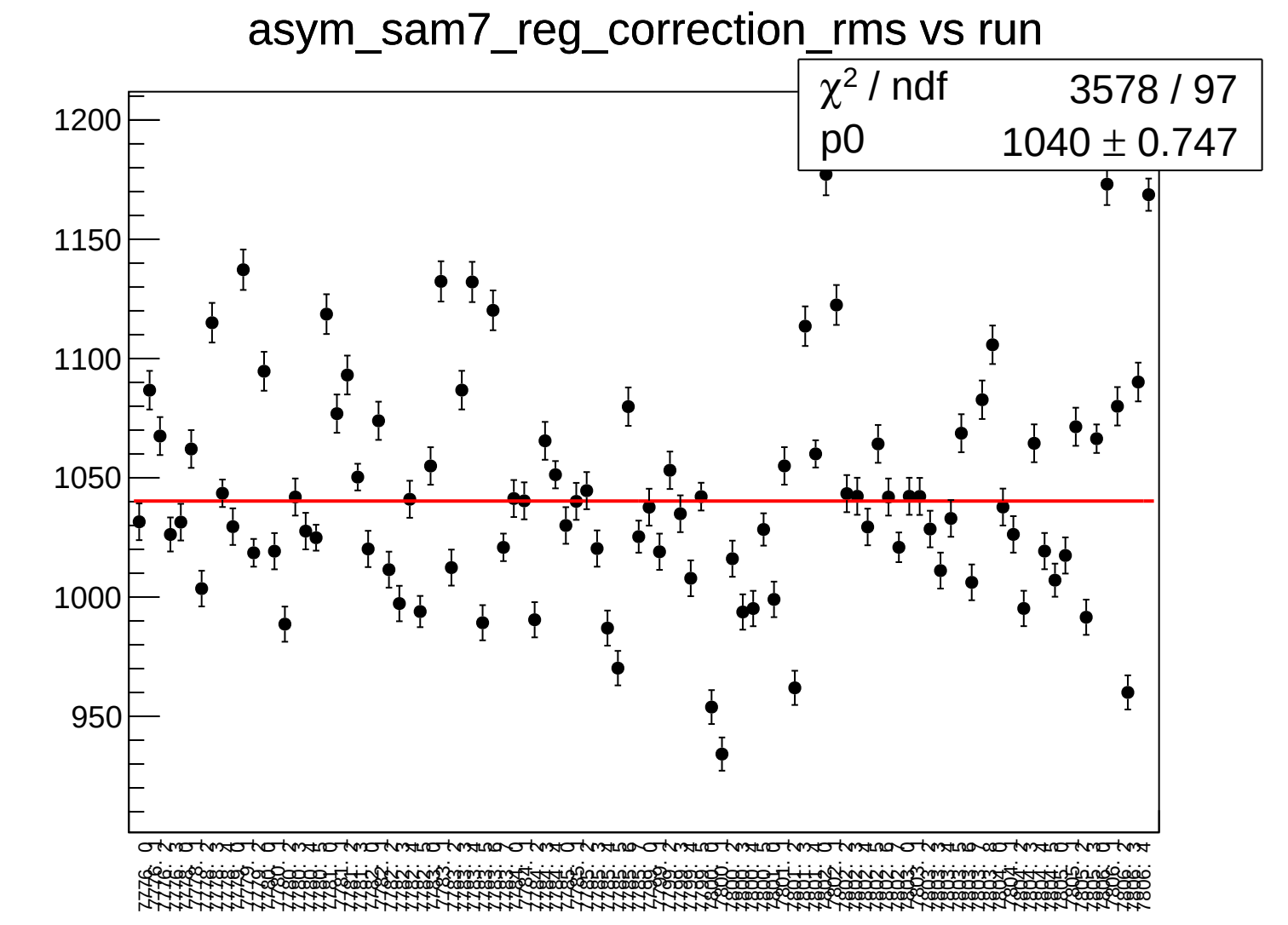

reg_asym_sam7_mean vs run
χ² / ndf 98.52 / 97
p0 −101 ± 87.18
pull
Entries 98
Mean −4567
Std Dev 0

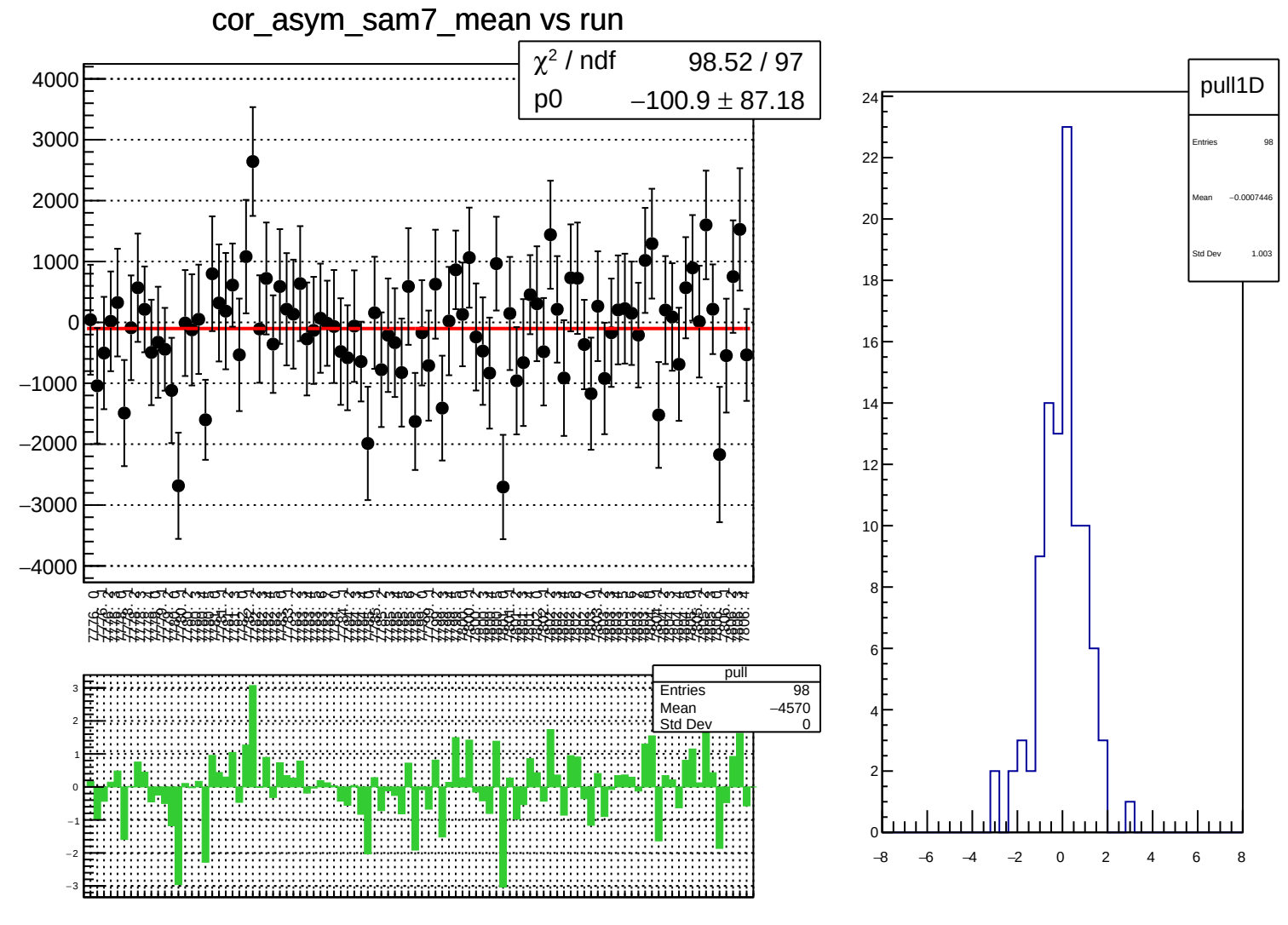

pull1D
Entries 98
Mean −0.0007451
Std Dev 1.003

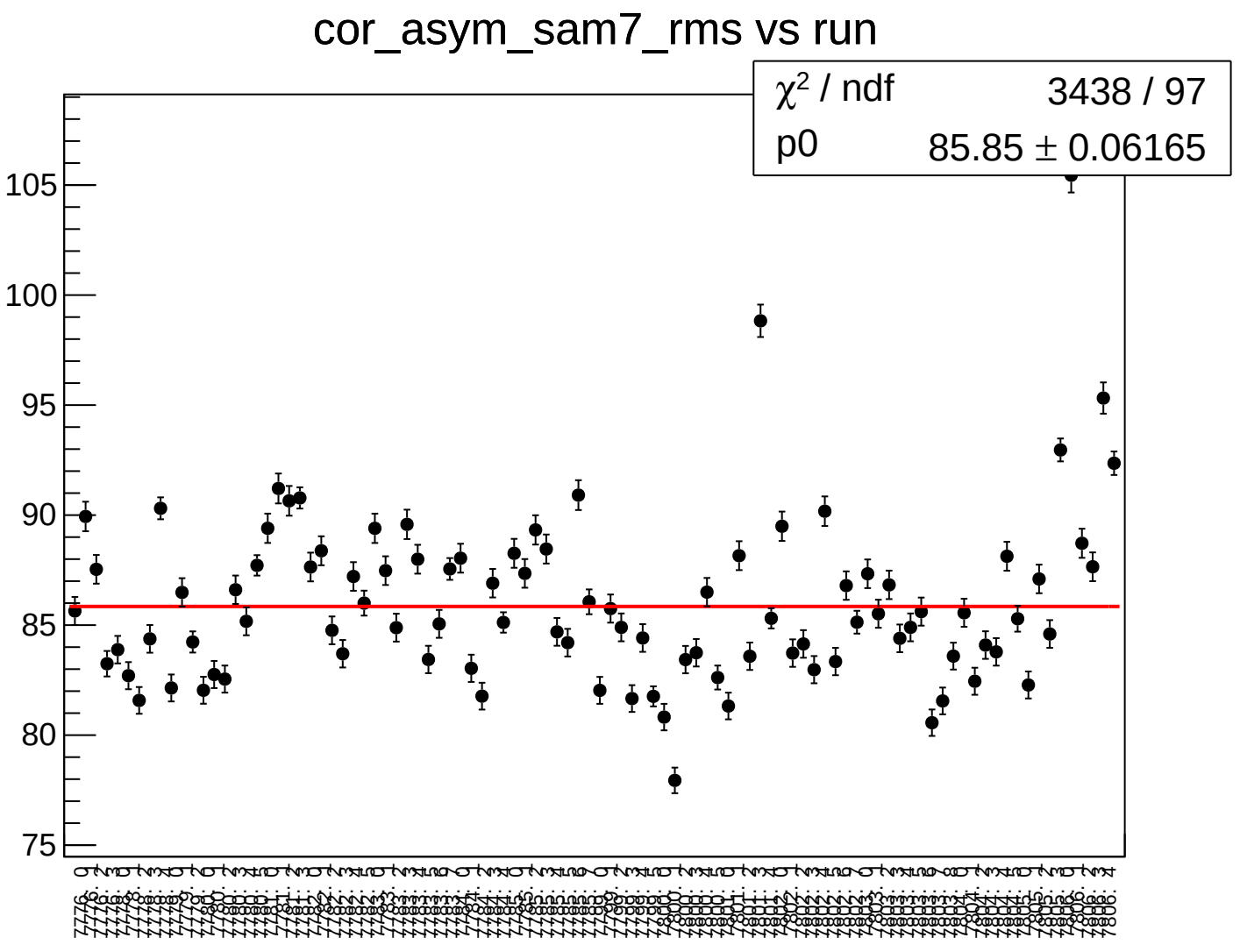

reg_asym_sam7_rms vs run
χ^2 / ndf 3438 / 97
p0 85.85 ± 0.06165
105
100
95
90
85
80
75

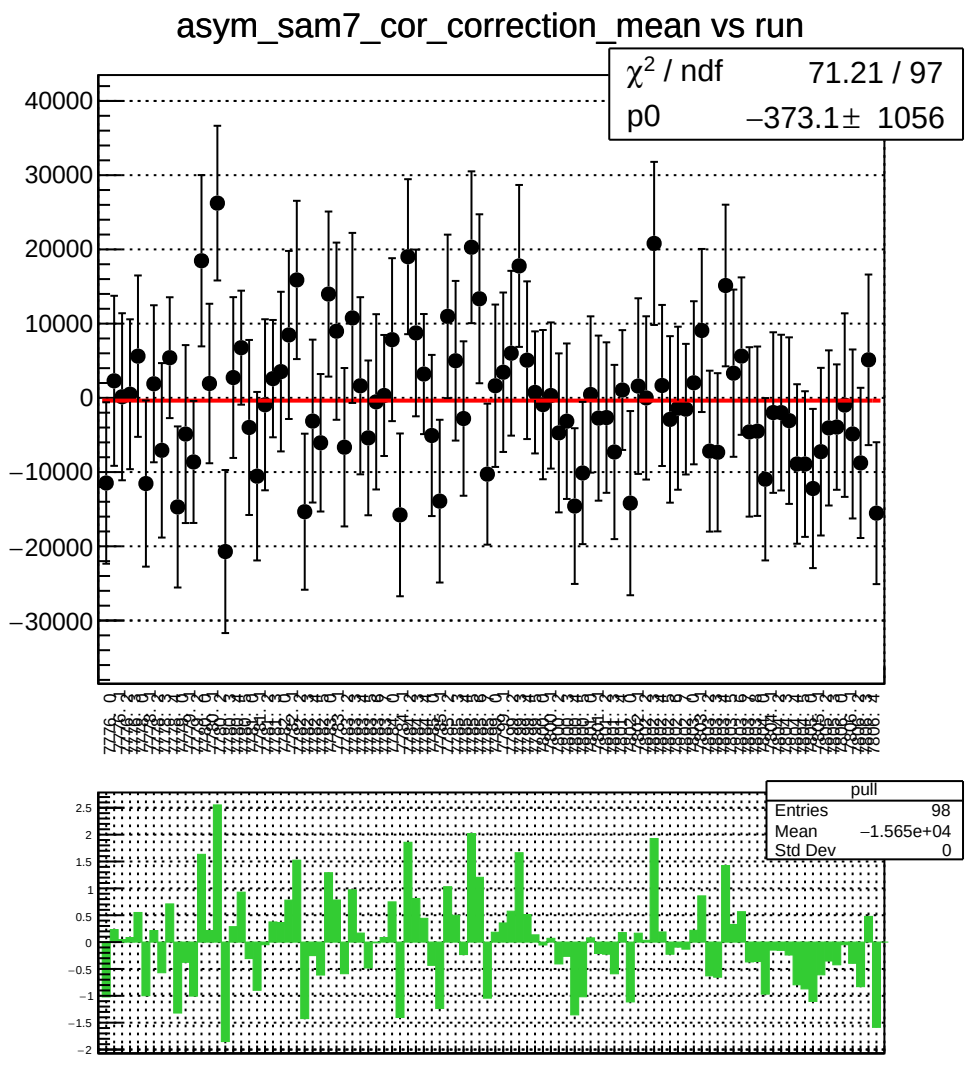

asym_sam7_reg_correction_mean vs run
χ² / ndf 71.21 / 97
p0 −373.1± 1056
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −1.566e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

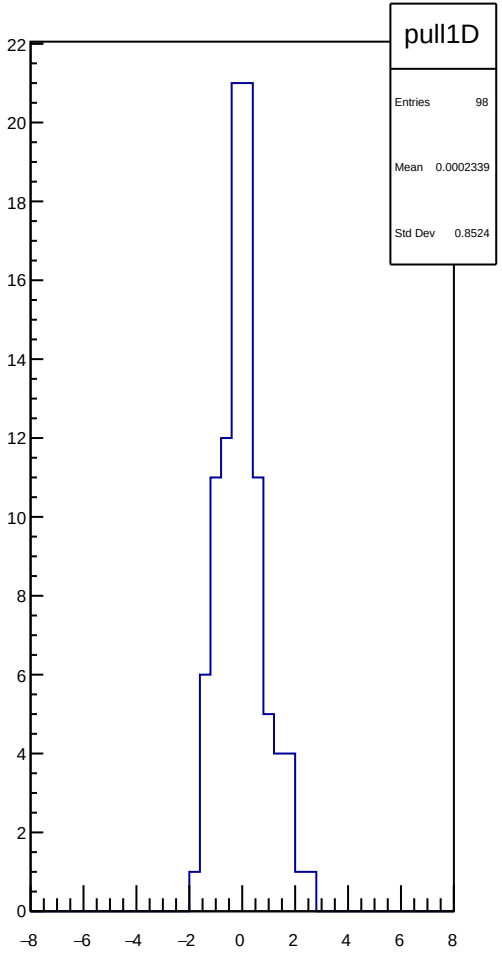

pull1D
Entries 98
Mean 0.0002337
Std Dev 0.8524
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

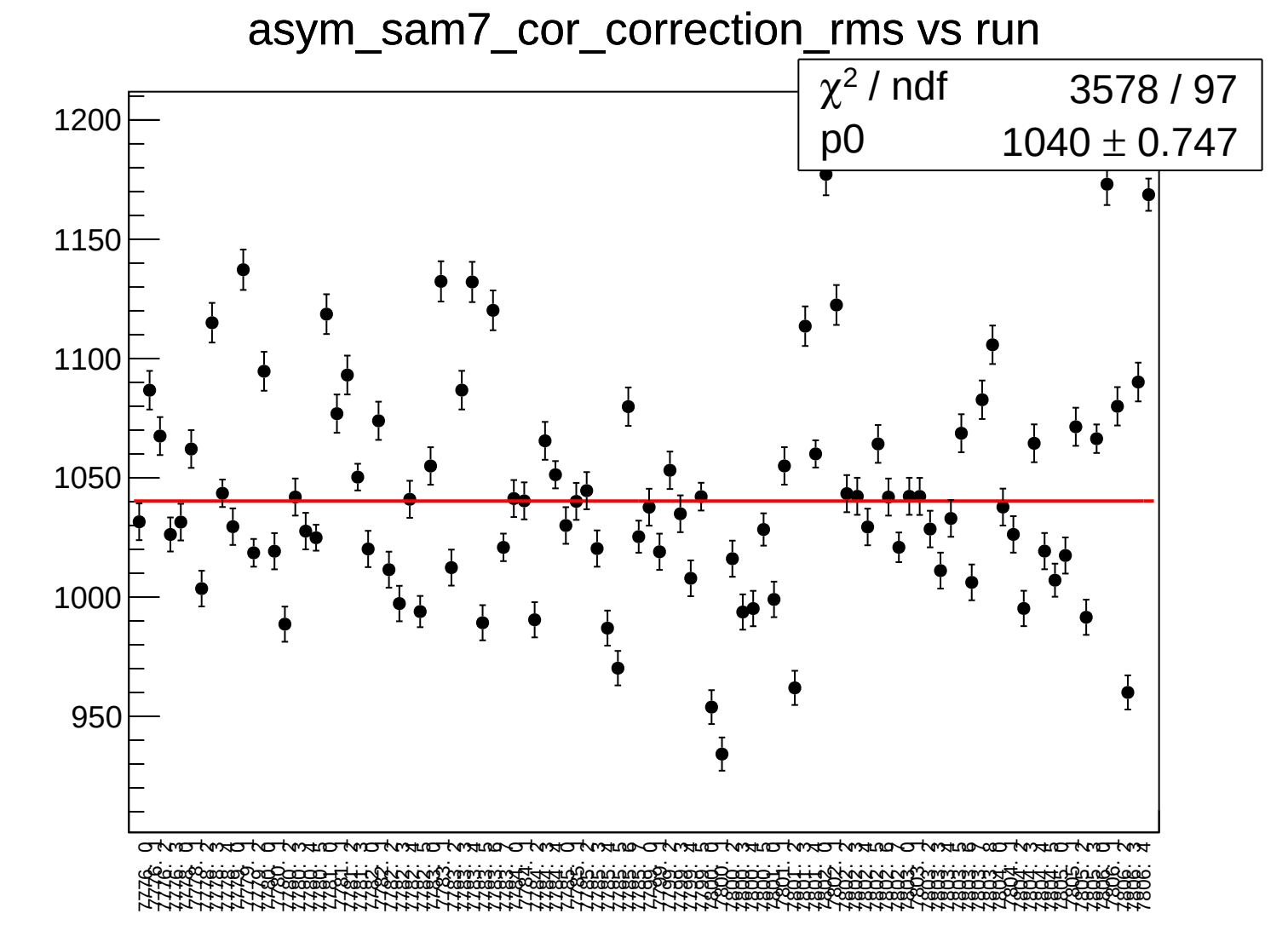

asym_sam7_reg_correction_rms vs run
χ² / ndf 3578 / 97
p0 1040 ± 0.747
1200
1150
1100
1050
1000
950

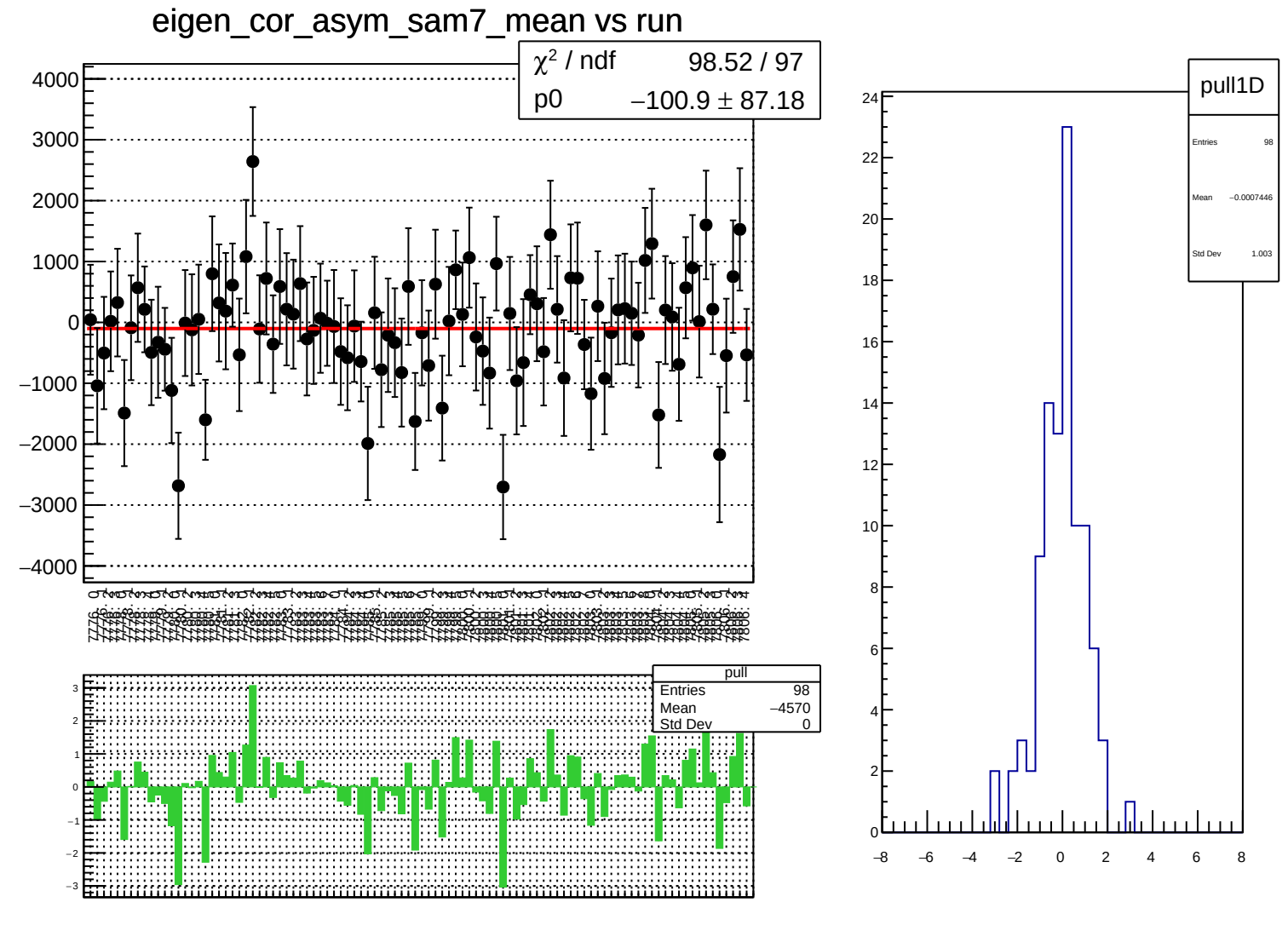

cor_asym_sam7_mean vs run
χ² / ndf 98.52 / 97
p0 −100.9 ± 87.18
pull
Entries 98
Mean −4570
Std Dev 0
pull1D
Entries 98
Mean −0.0007446
Std Dev 1.003

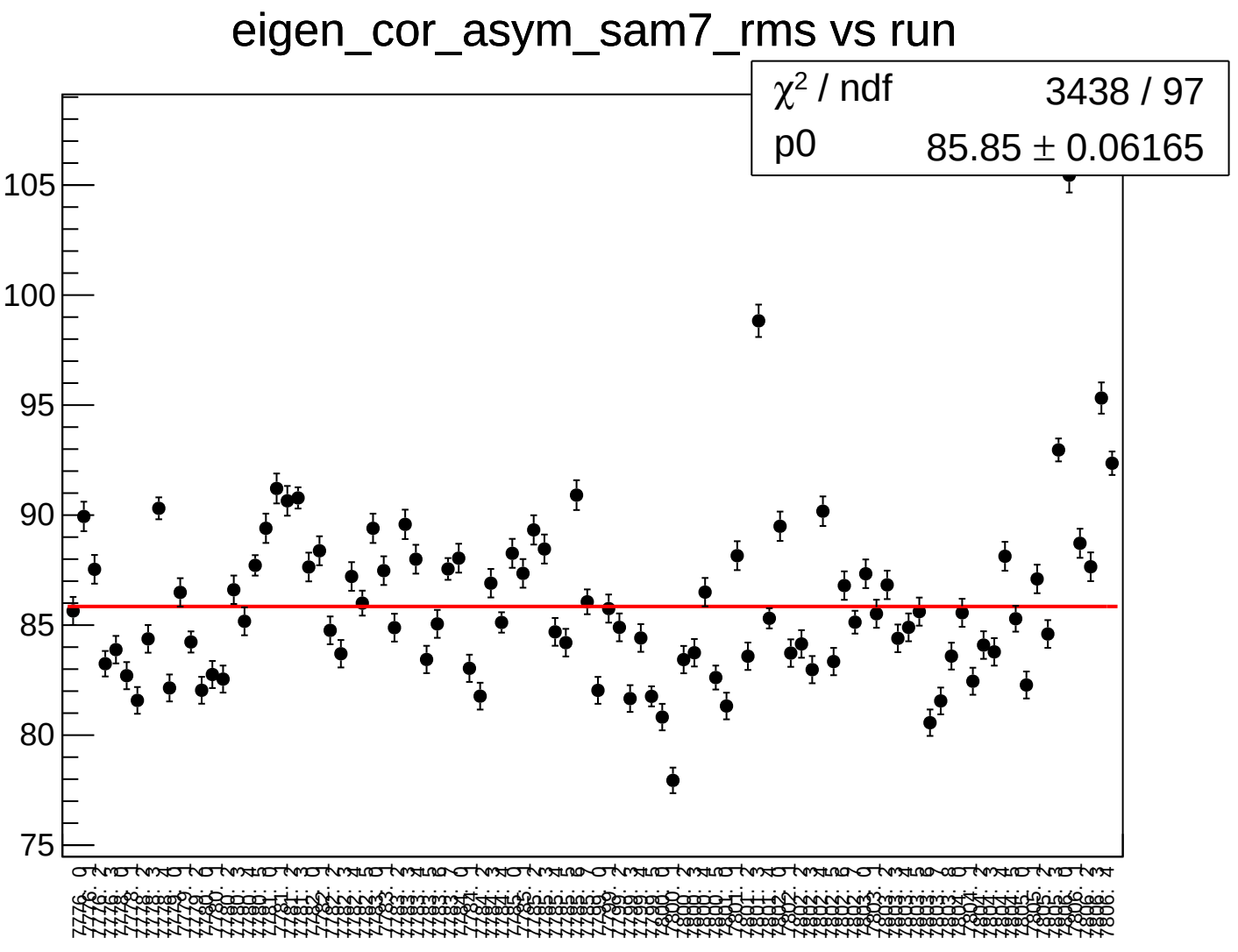

cor_asym_sam7_rms vs run
χ² / ndf 3438 / 97
p0 85.85 ± 0.06165
105
100
95
90
85
80
75

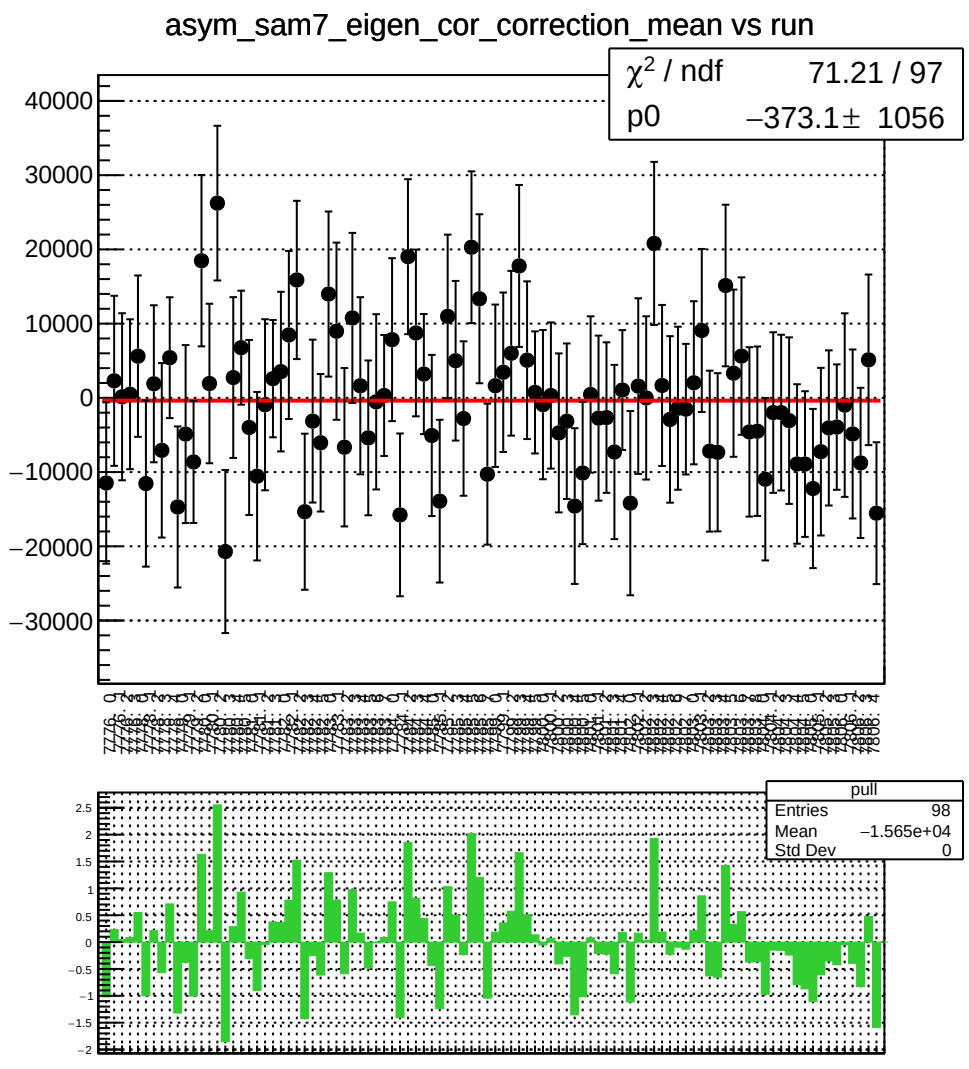

asym_sam7_cor_correction_mean vs run
χ² / ndf 71.21 / 97
p0 −373.1± 1056
pull
Entries 98
Mean −1.565e+04
Std Dev 0

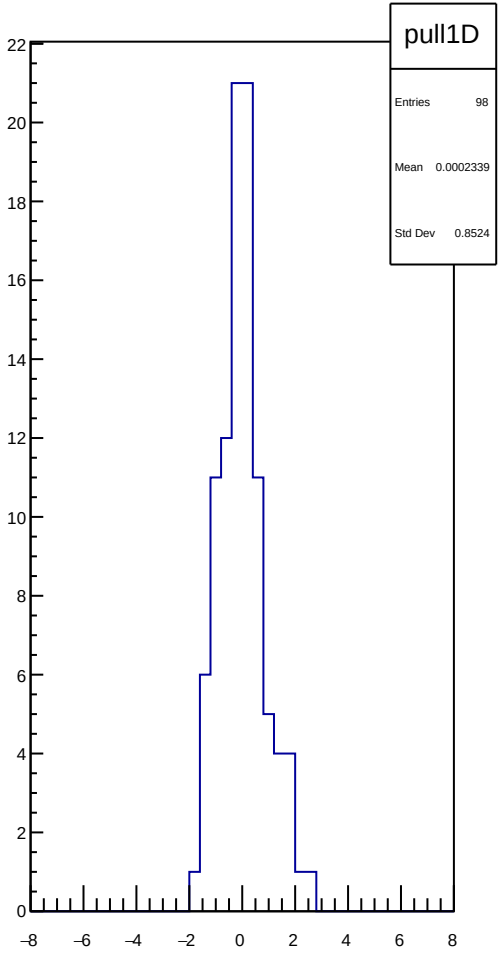

pull1D
Entries 98
Mean 0.0002339
Std Dev 0.8524

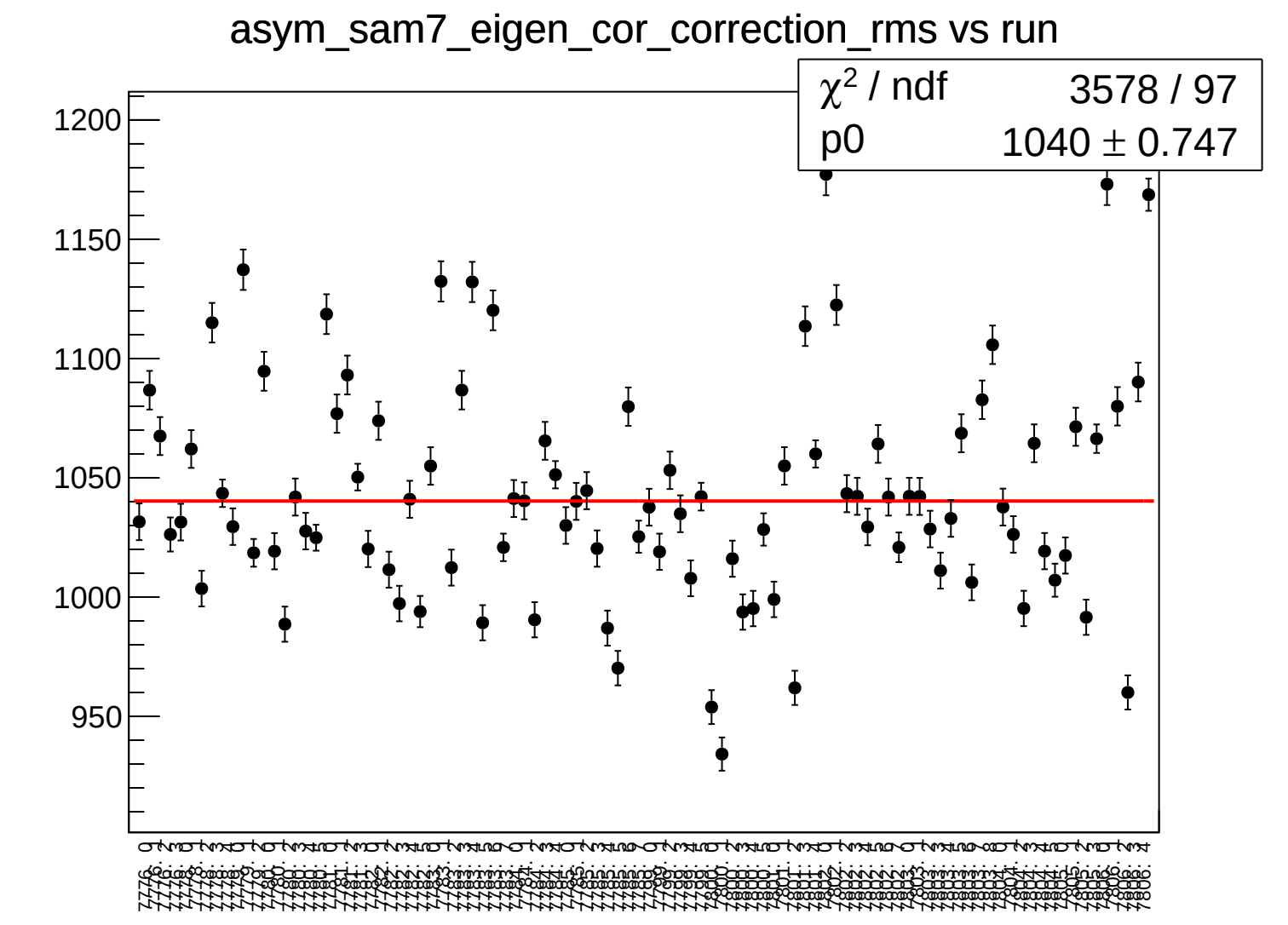

asym_sam7_cor_correction_rms vs run
χ² / ndf 3578 / 97
p0 1040 ± 0.747
1200
1150
1100
1050
1000
950

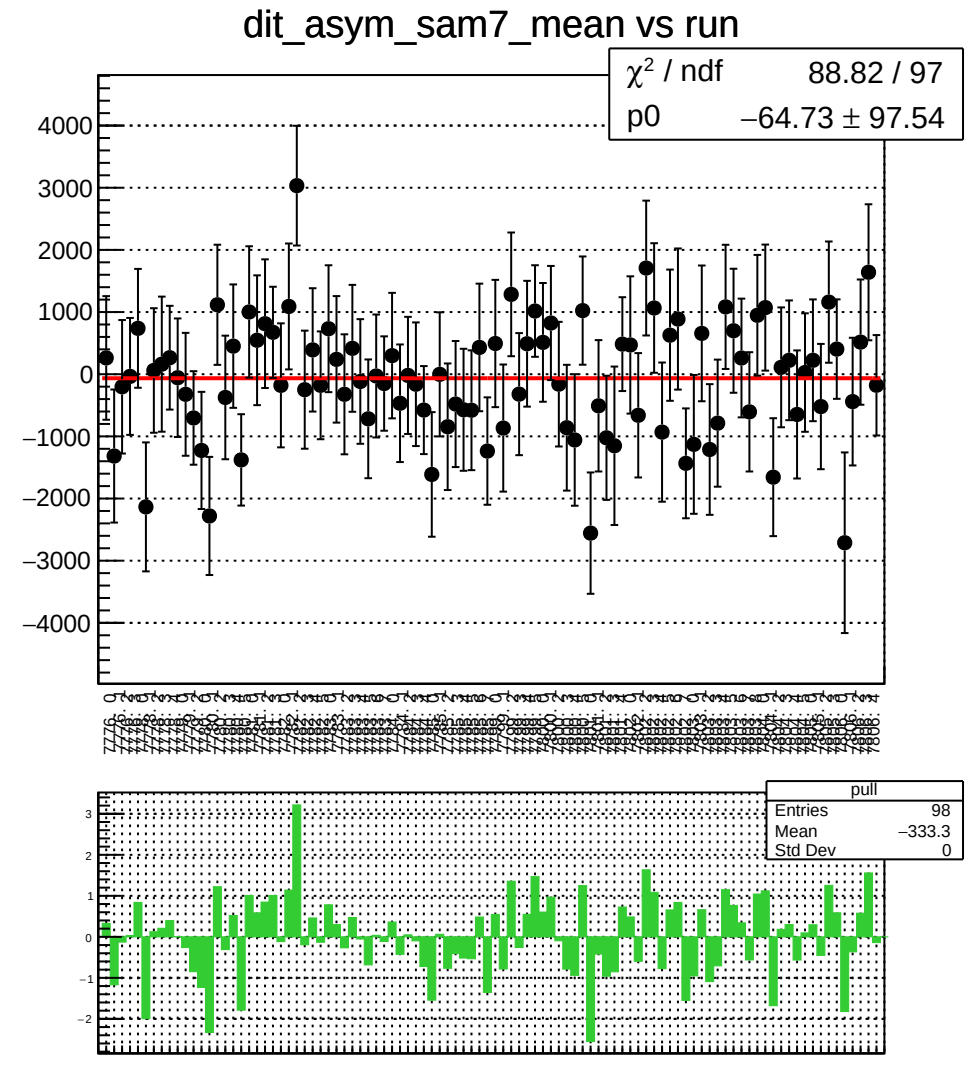

eigen_cor_asym_sam7_mean vs run
χ² / ndf 98.52 / 97
p0 −100.9 ± 87.18
pull
Entries 98
Mean −4570
Std Dev 0
pull1D
Entries 98
Mean −0.0007446
Std Dev 1.003

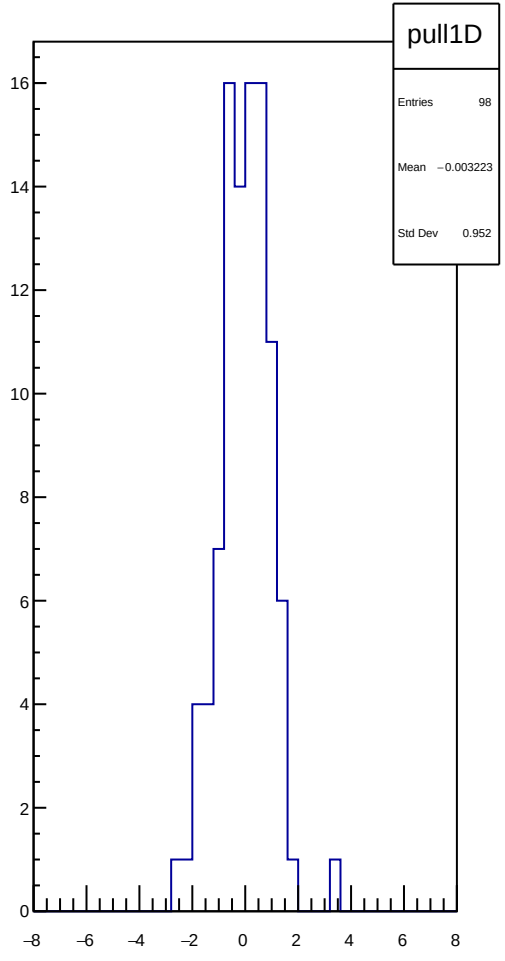

eigen_cor_asym_sam7_rms vs run
χ² / ndf 3438 / 97
p0 85.85 ± 0.06165
105
100
95
90
85
80
75

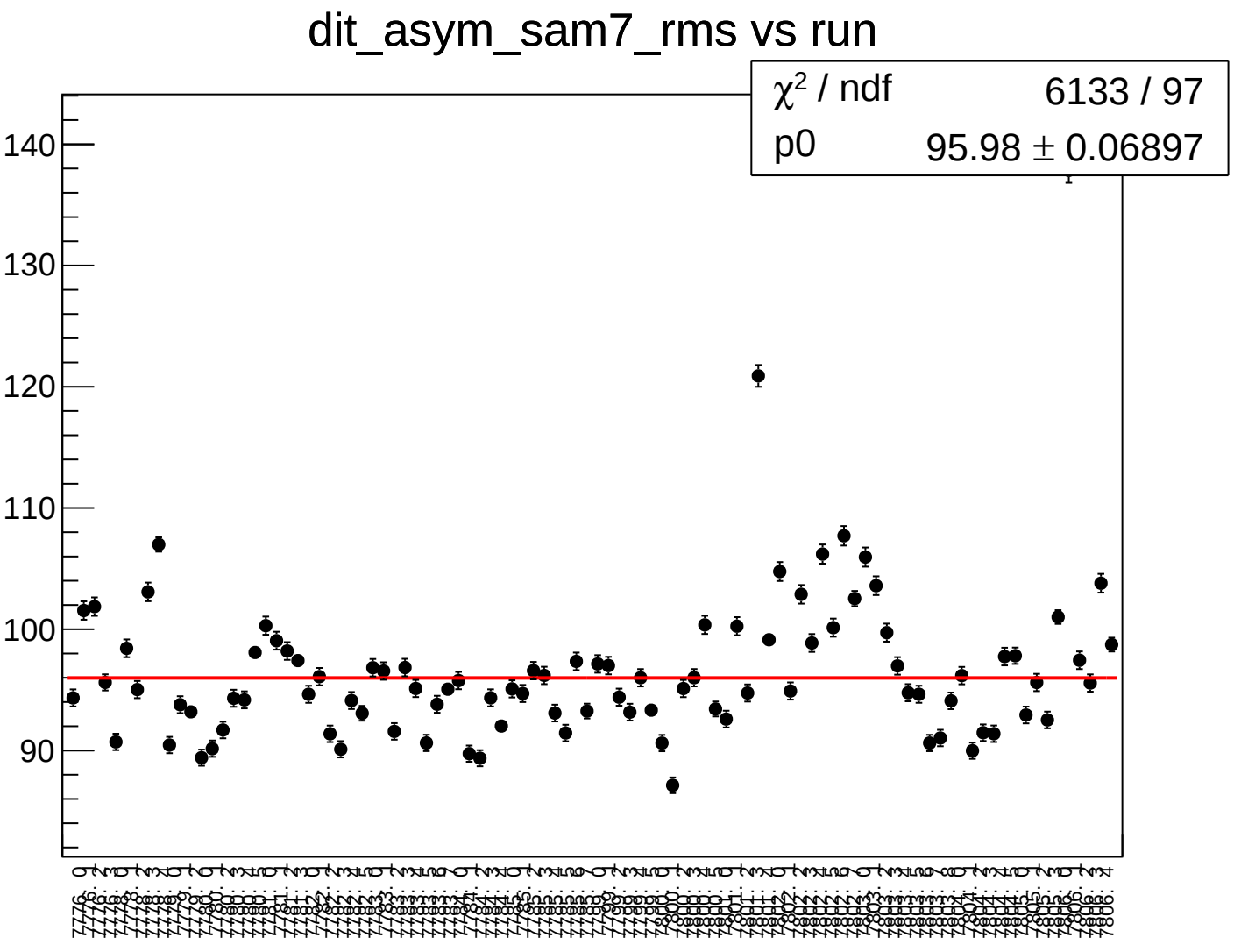

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 71.21 / 97
p0 −373.1± 1056
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −1.565e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

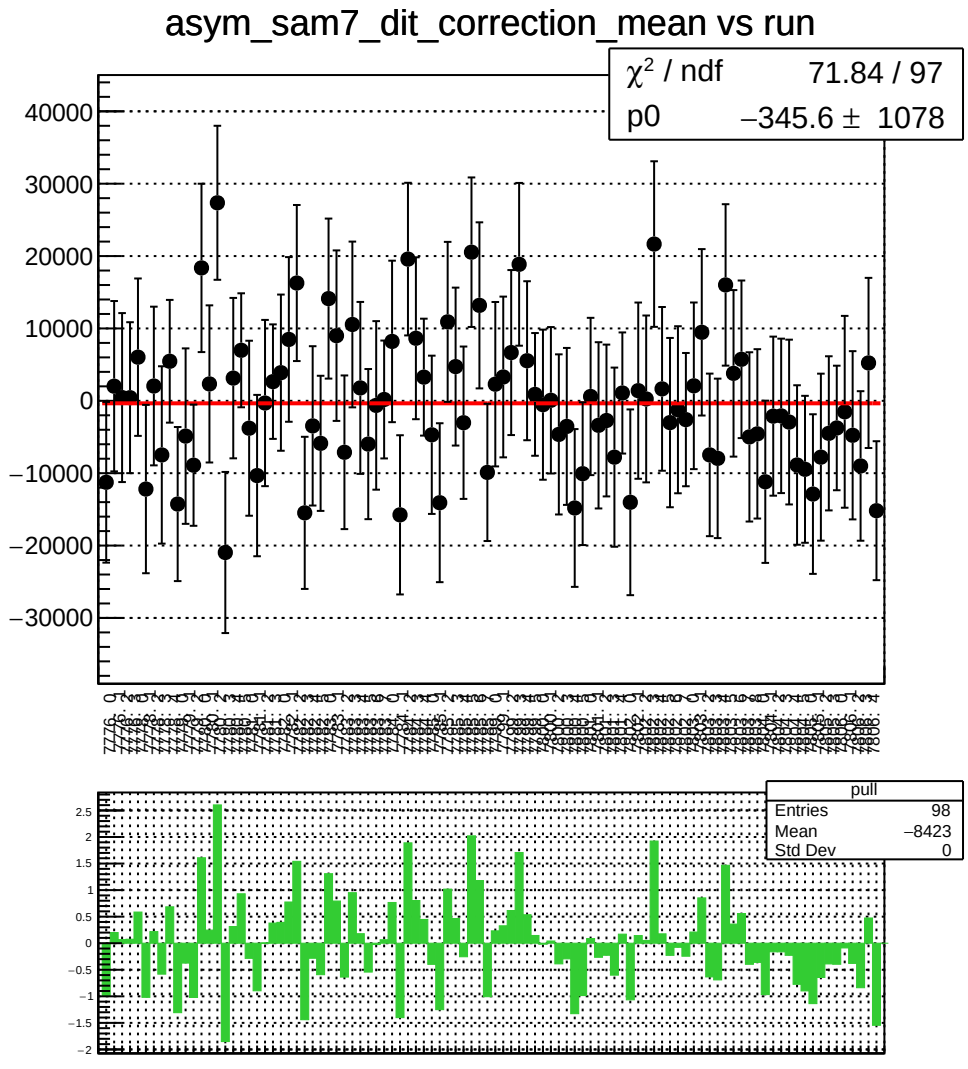

pull1D
Entries 98
Mean 0.0002339
Std Dev 0.8524
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

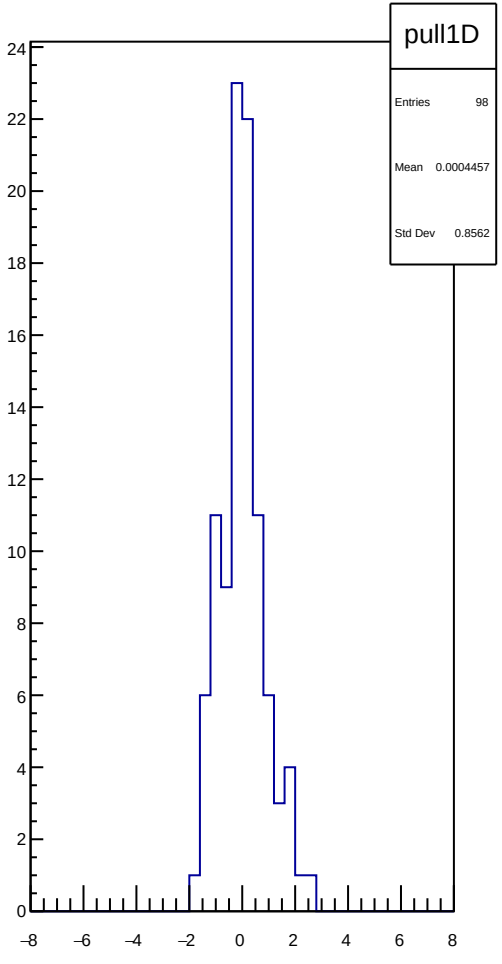

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 3578 / 97
p0 1040 ± 0.747
1200
1150
1100
1050
1000
950

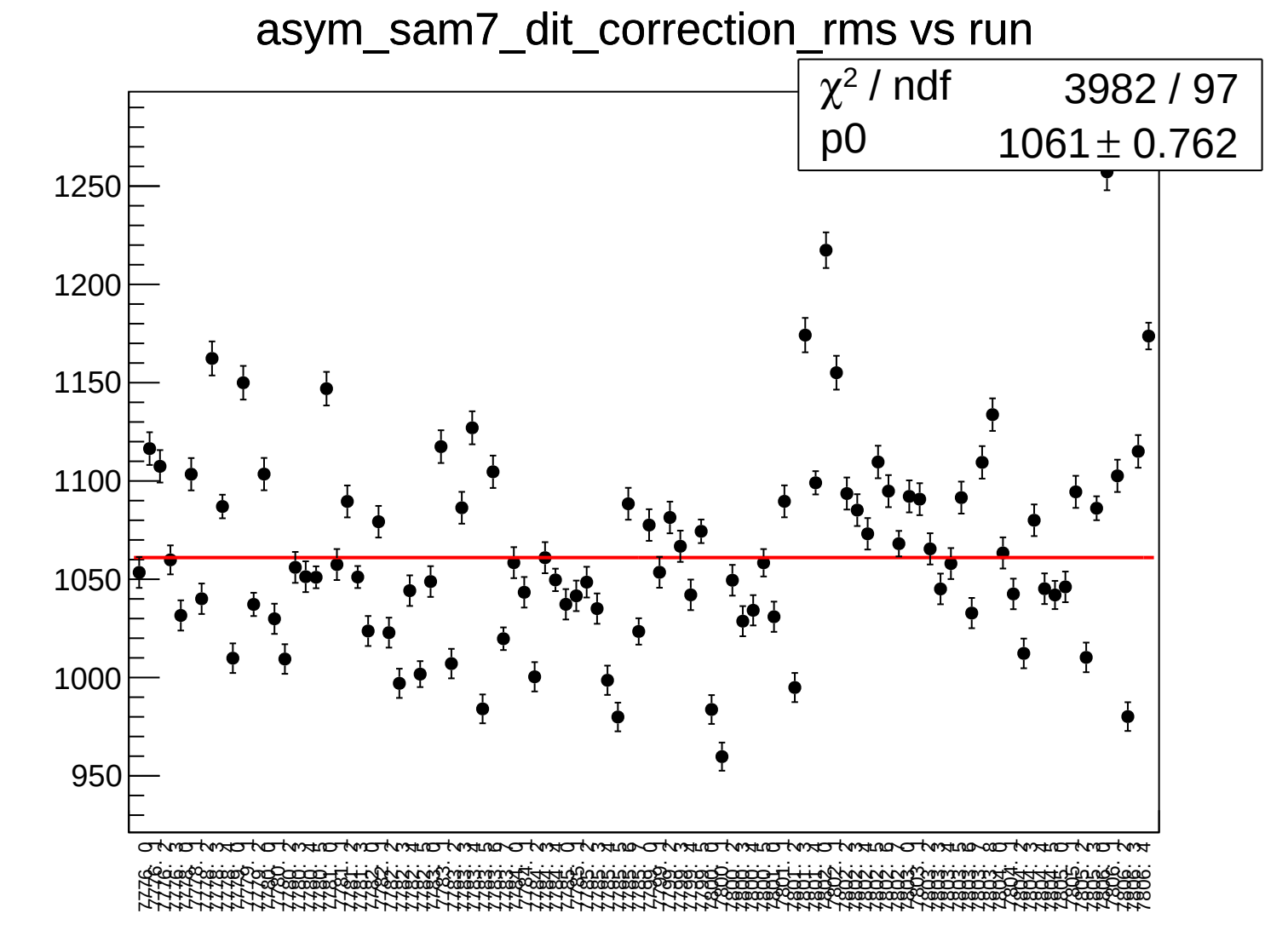

dit_asym_sam7_mean vs run
χ² / ndf 88.82 / 97
p0 −64.73 ± 97.54
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 98
Mean −333.3
Std Dev 0
3
2
1
0
−1
−2

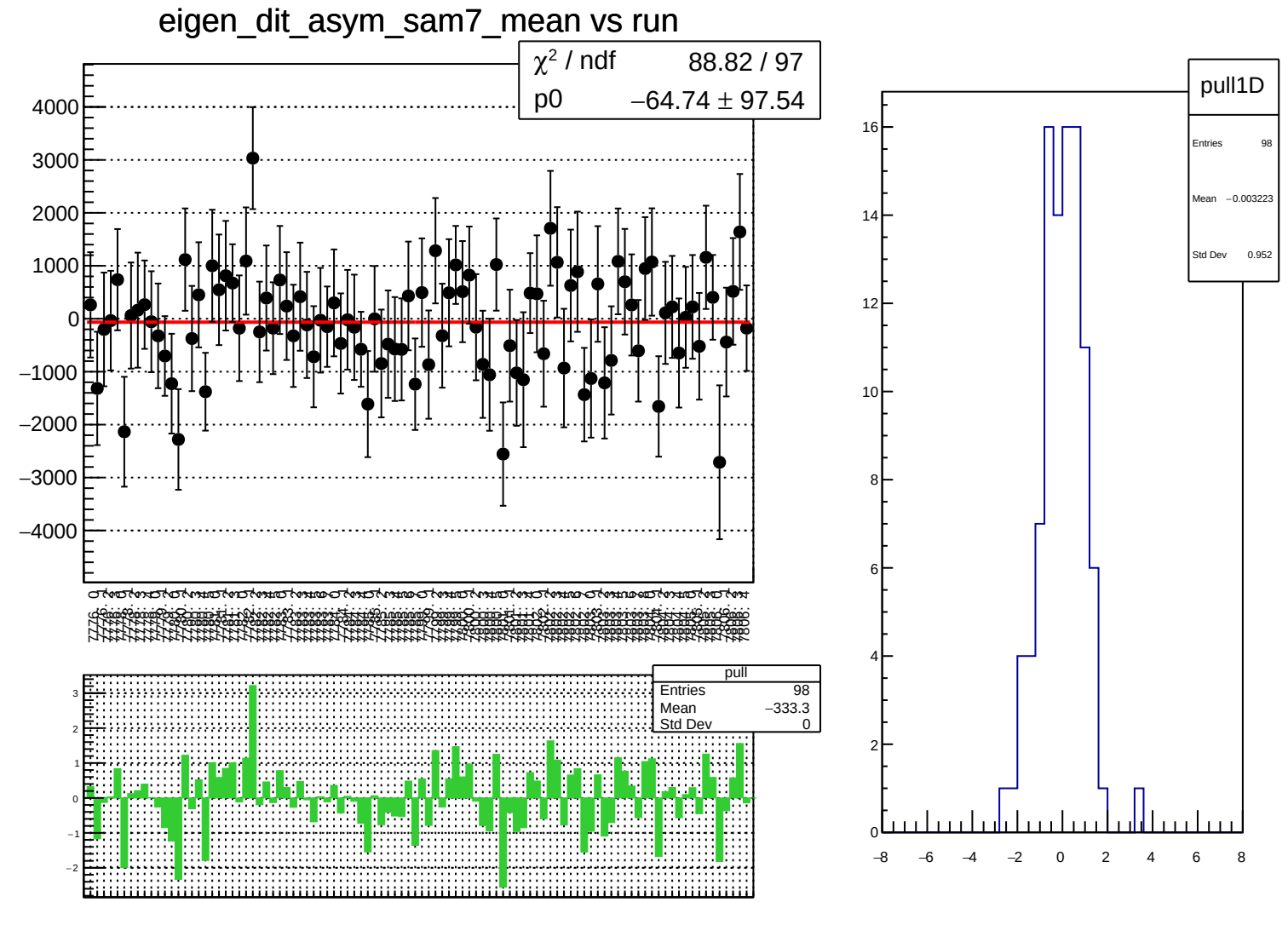

pull1D
Entries 98
Mean −0.003223
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

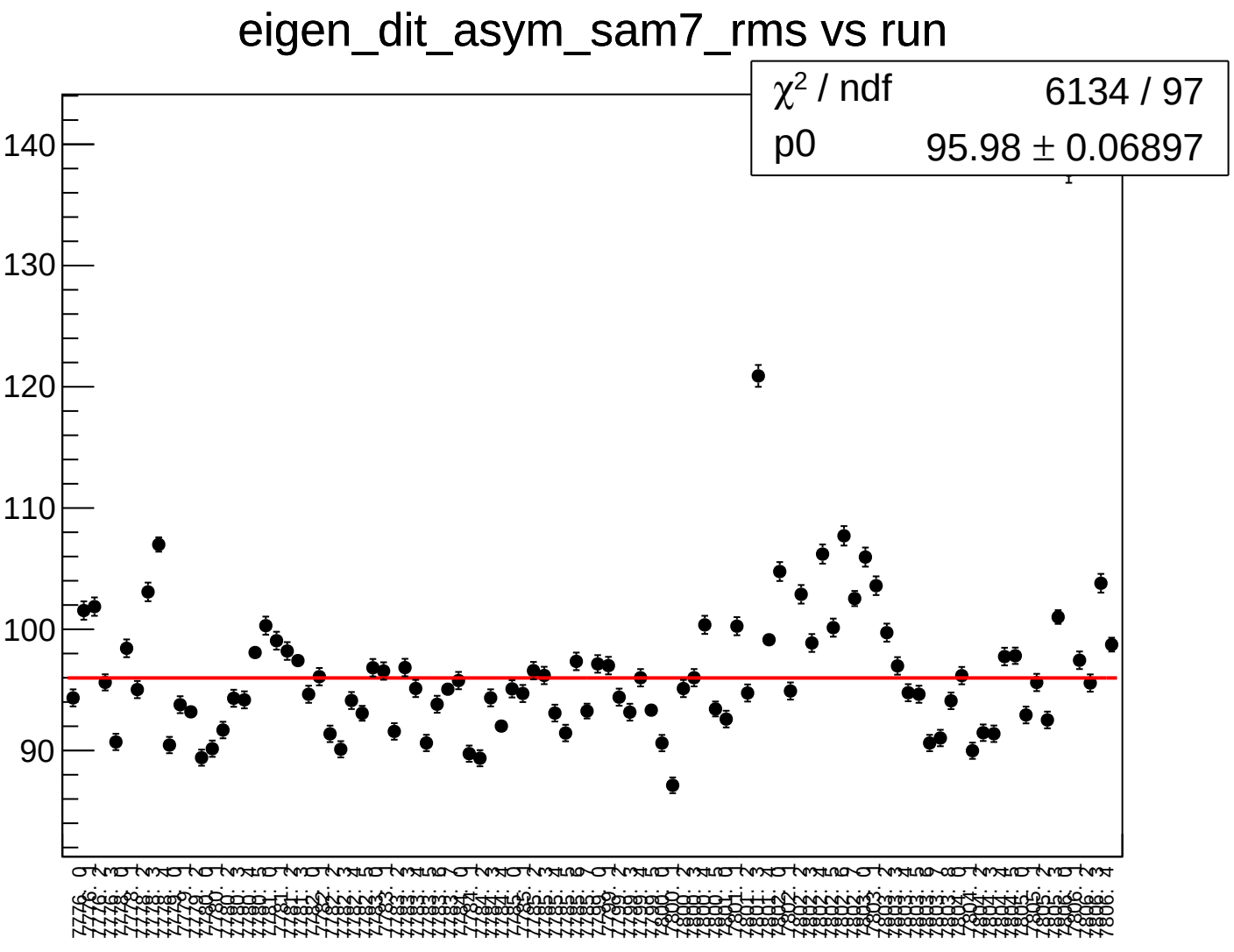

dit_asym_sam7_rms vs run
χ² / ndf 6133 / 97
p0 95.98 ± 0.06897
140
130
120
110
100
90

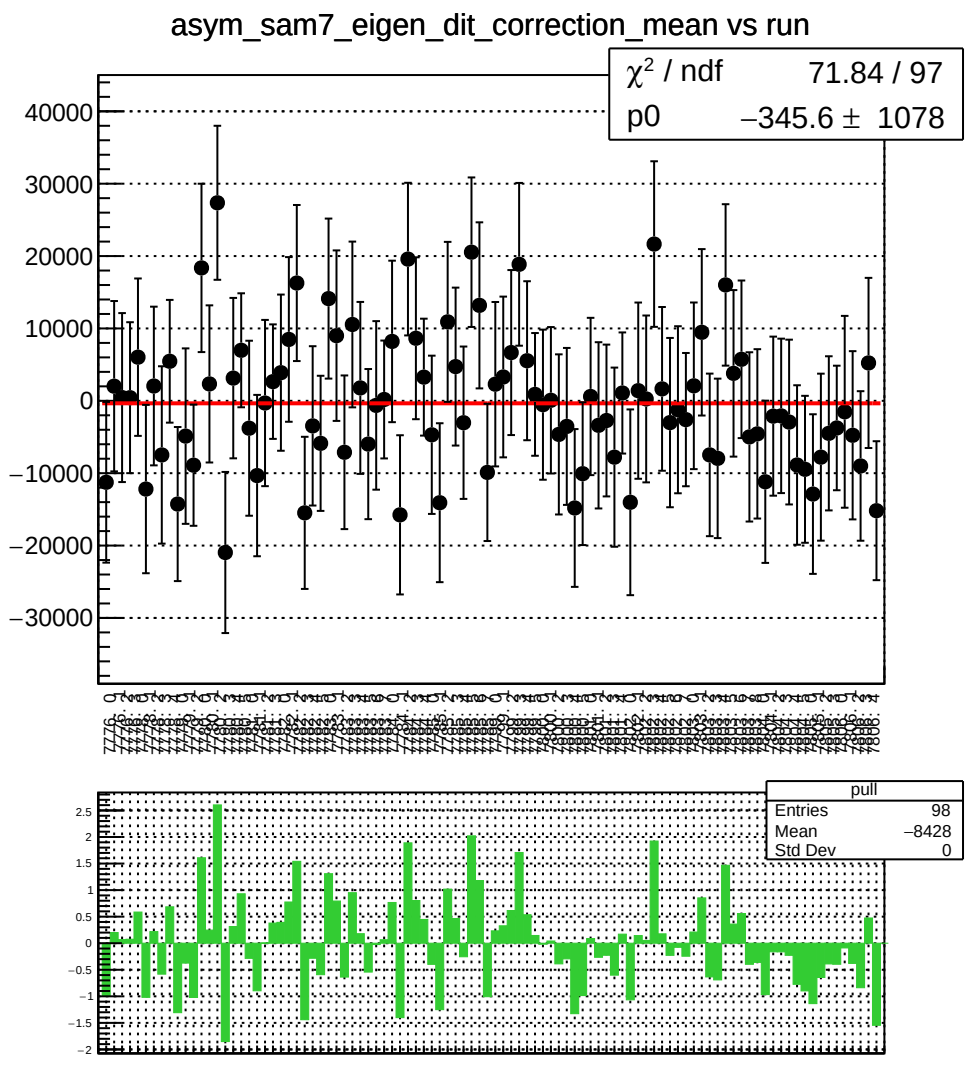

asym_sam7_dit_correction_mean vs run
χ² / ndf 71.84 / 97
p0 −345.6 ± 1078
pull
Entries 98
Mean −8423
Std Dev 0

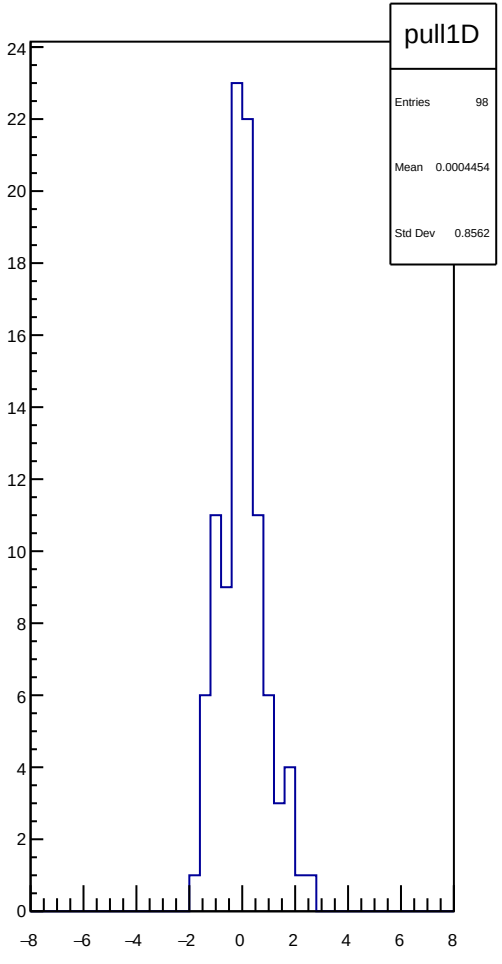

pull1D
Entries 98
Mean 0.0004457
Std Dev 0.8562

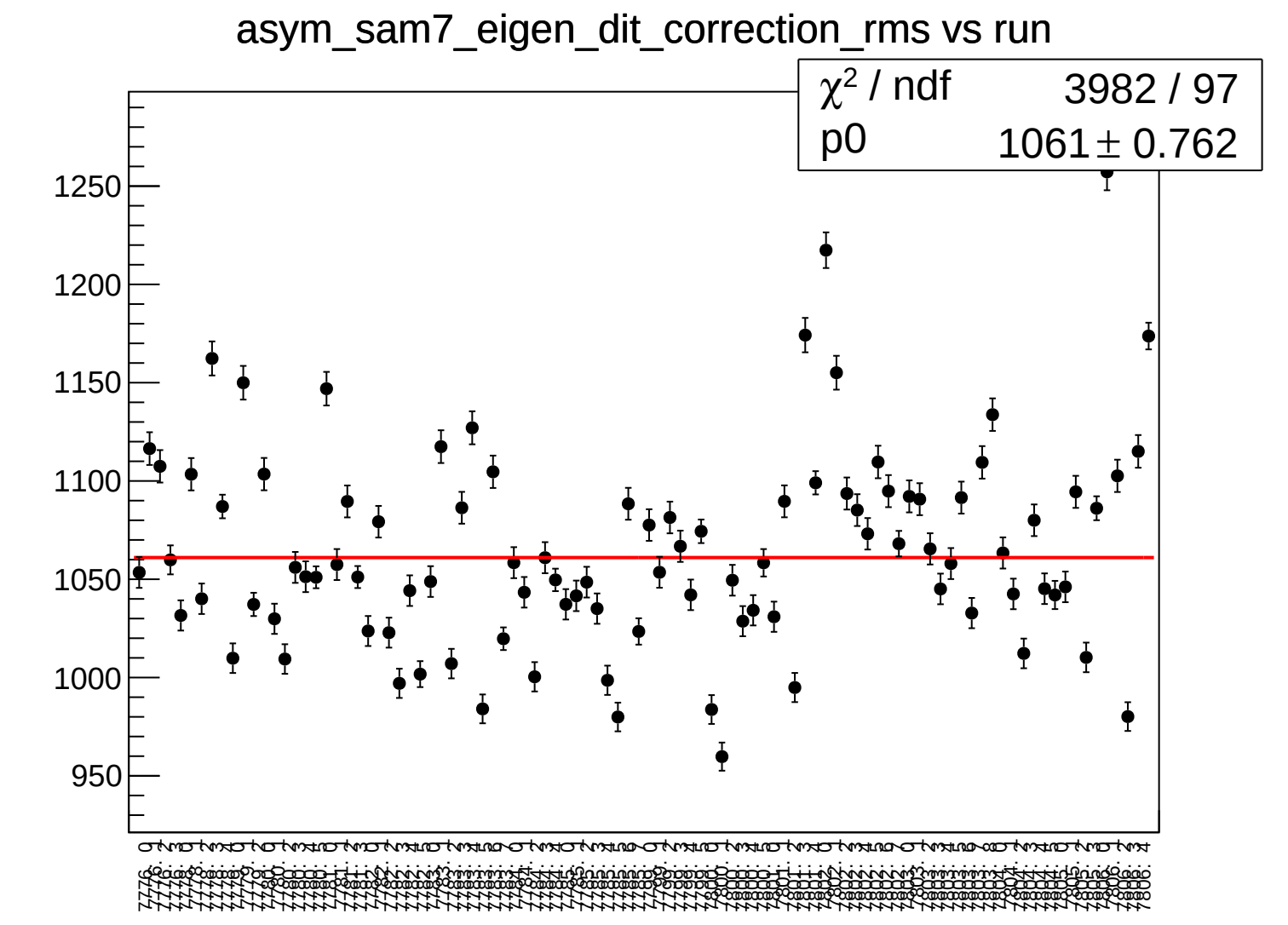

asym_sam7_dit_correction_rms vs run
χ² / ndf 3982 / 97
p0 1061 ± 0.762
1250
1200
1150
1100
1050
1000
950

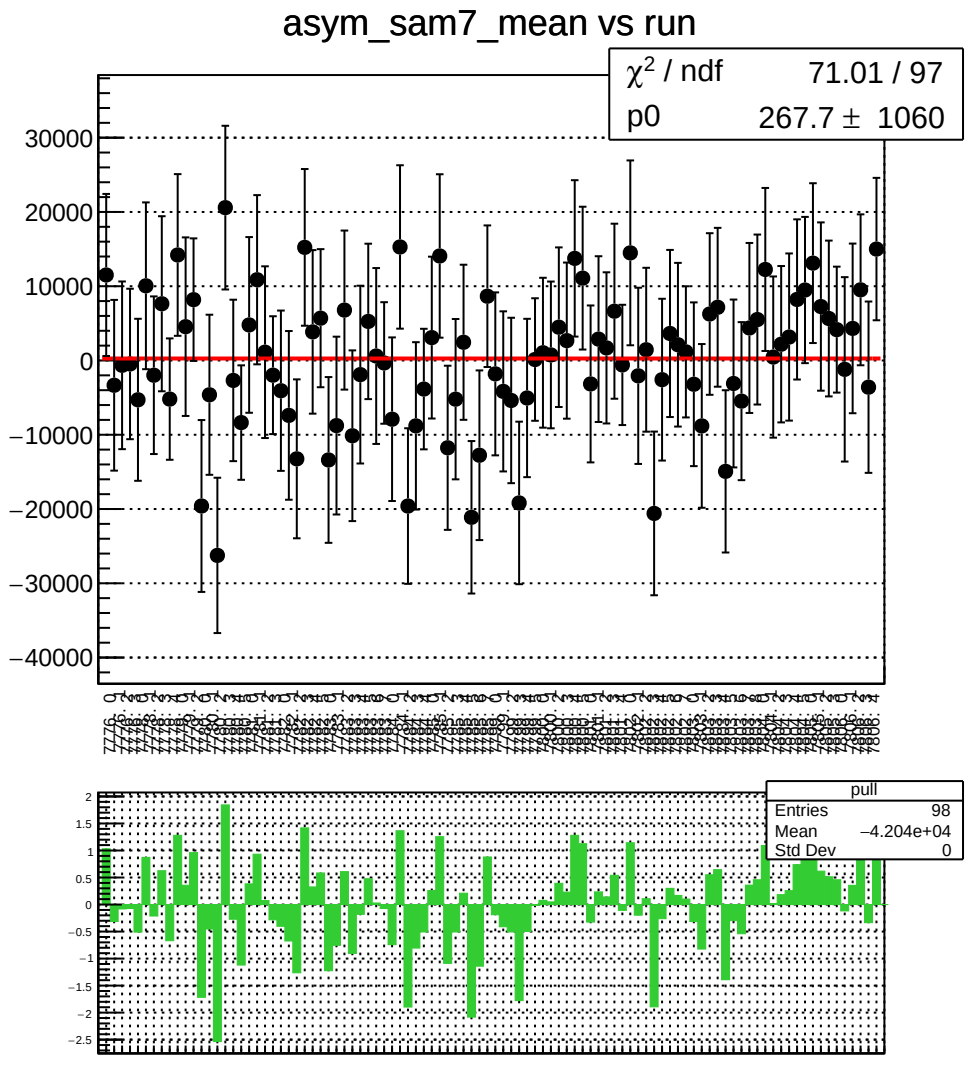

eigen_dit_asym_sam7_mean vs run
χ² / ndf 88.82 / 97
p0 −64.74 ± 97.54
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 98
Mean −333.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.003223
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

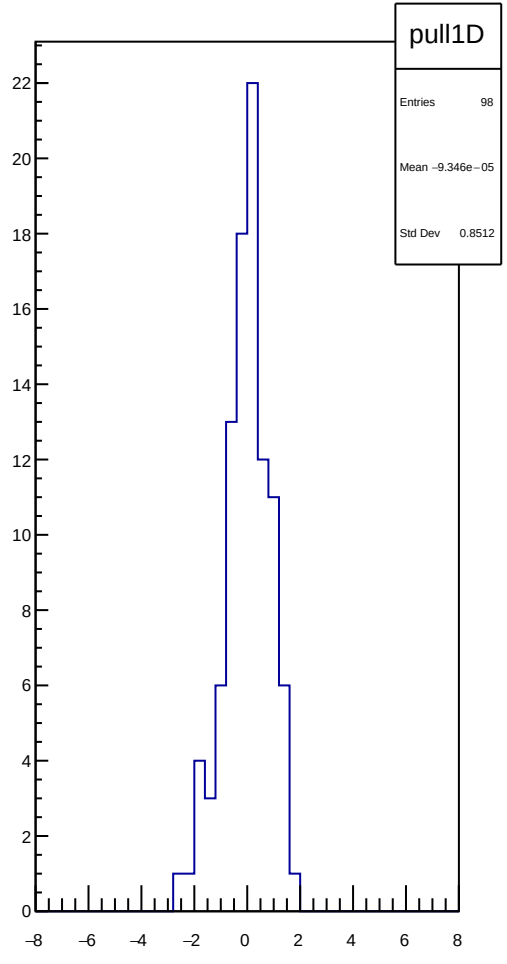

eigen_dit_asym_sam7_rms vs run
χ² / ndf 6134 / 97
p0 95.98 ± 0.06897
140
130
120
110
100
90

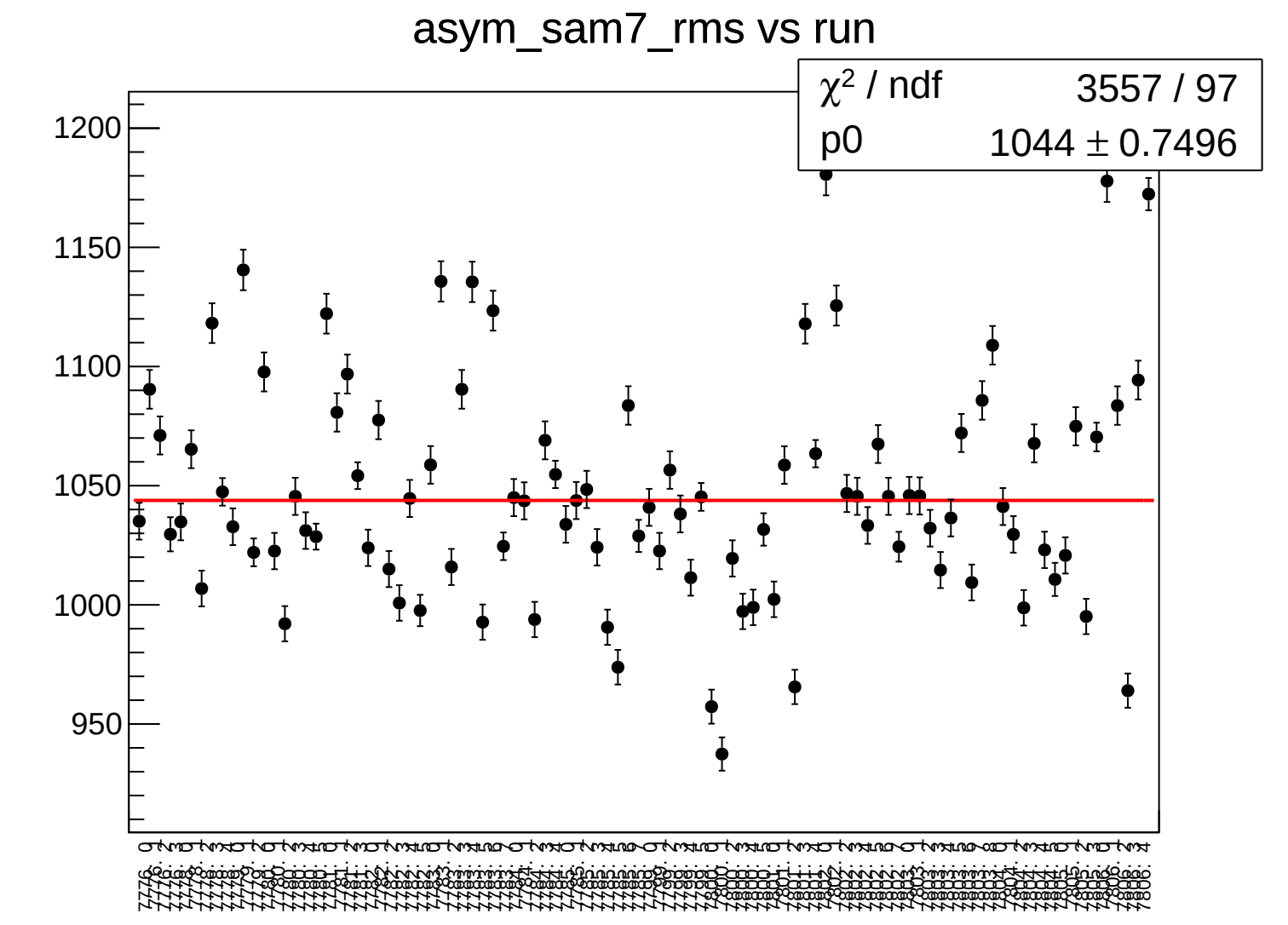

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 71.84 / 97
p0 −345.6 ± 1078
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −8428
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

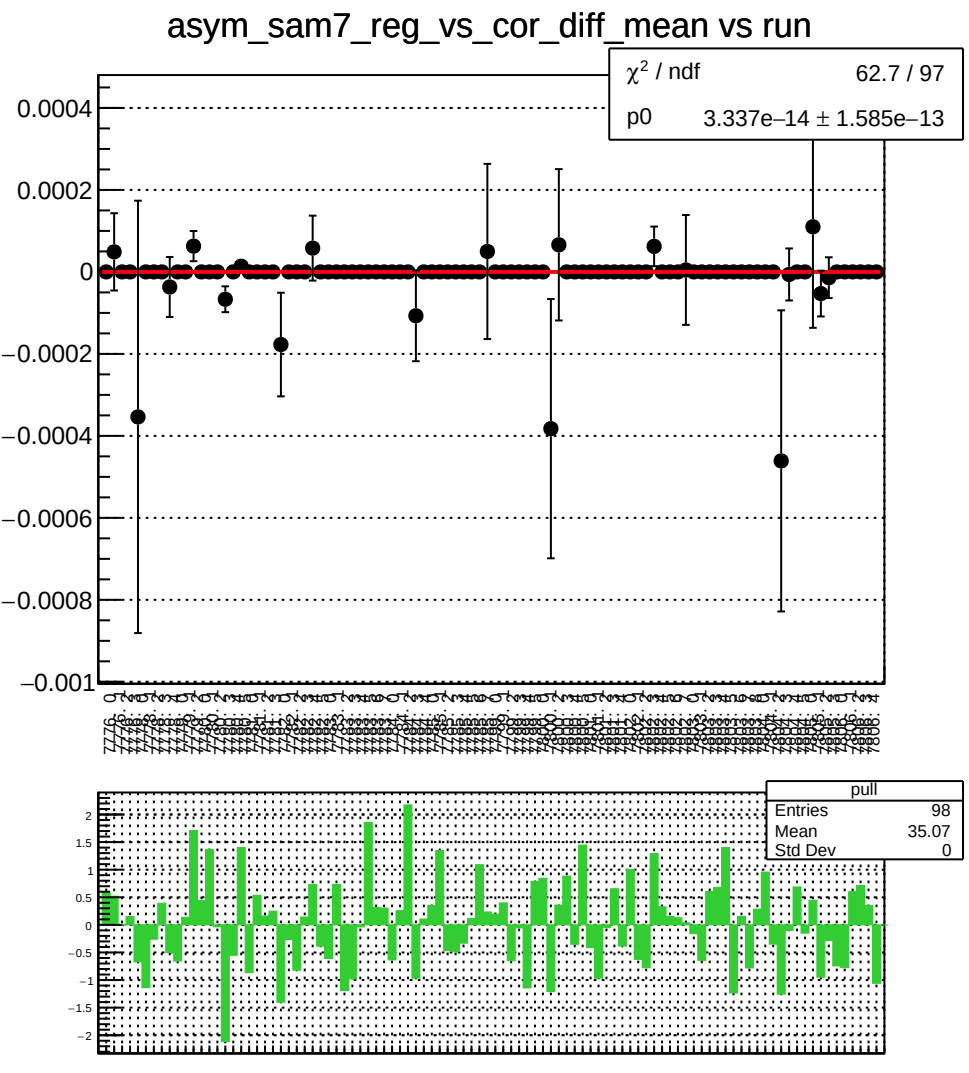

pull1D
Entries 98
Mean 0.0004454
Std Dev 0.8562
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

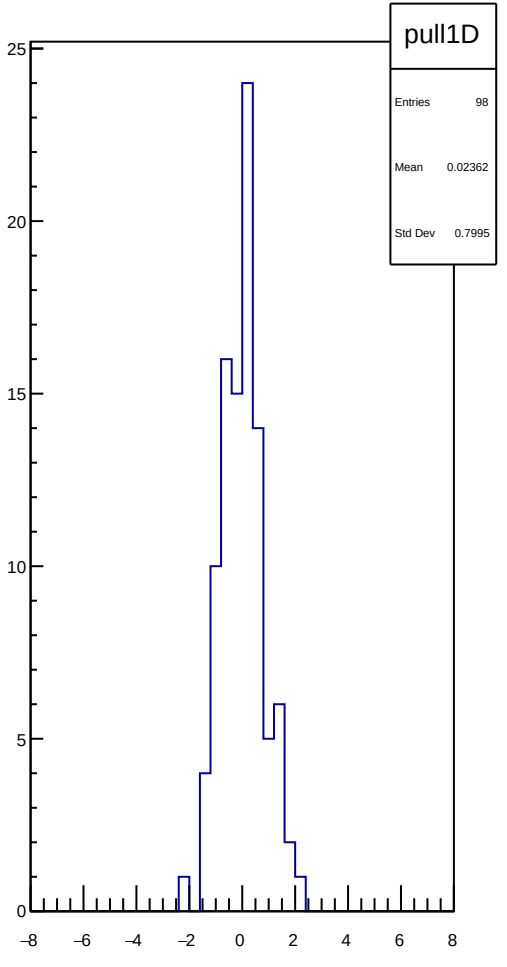

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 3982 / 97
p0 1061 ± 0.762
1250
1200
1150
1100
1050
1000
950

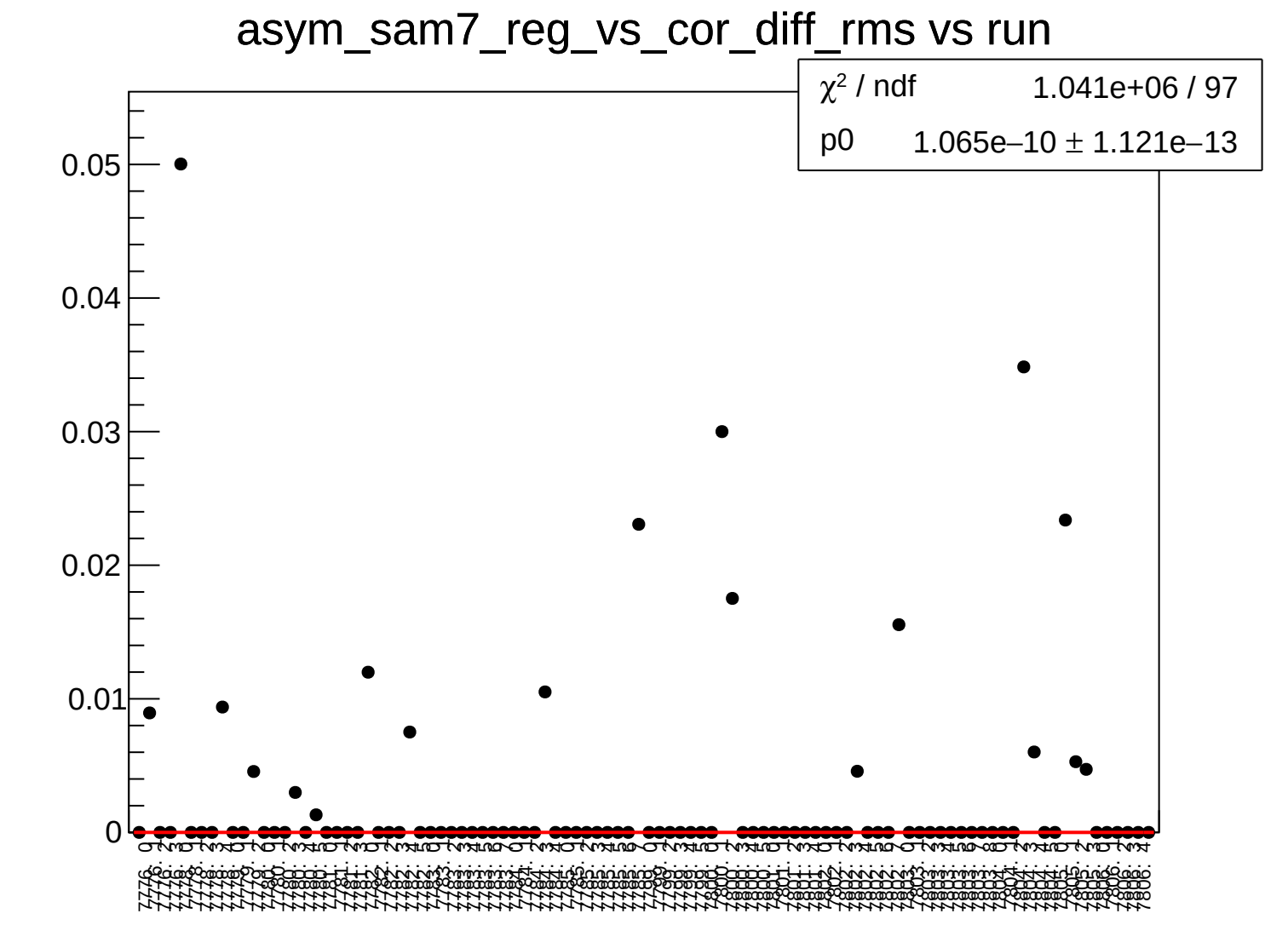

asym_sam7_mean vs run
χ² / ndf 71.01 / 97
p0 267.7 ± 1060
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean −4.204e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

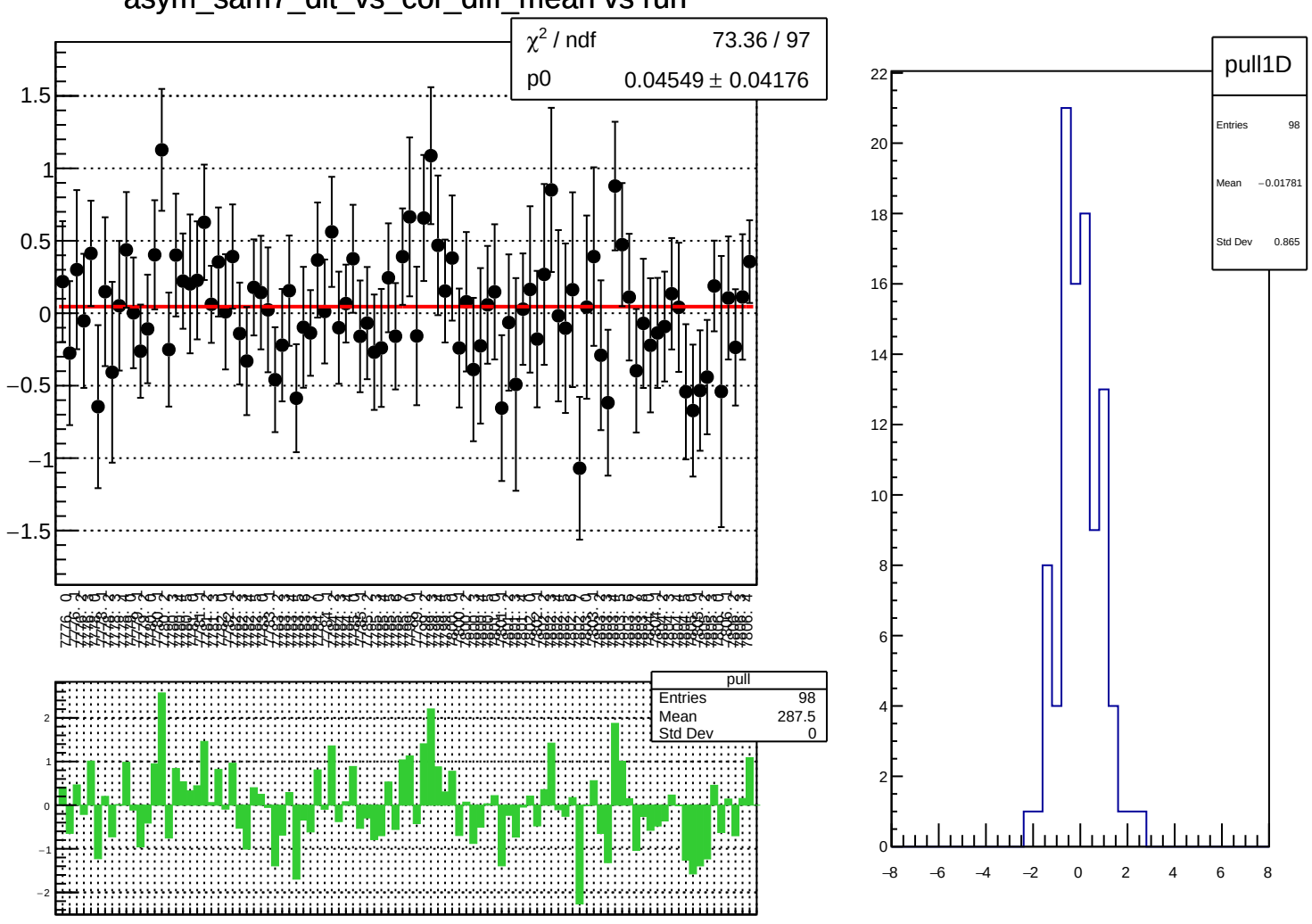

pull1D
Entries 98
Mean −9.346e−05
Std Dev 0.8512
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

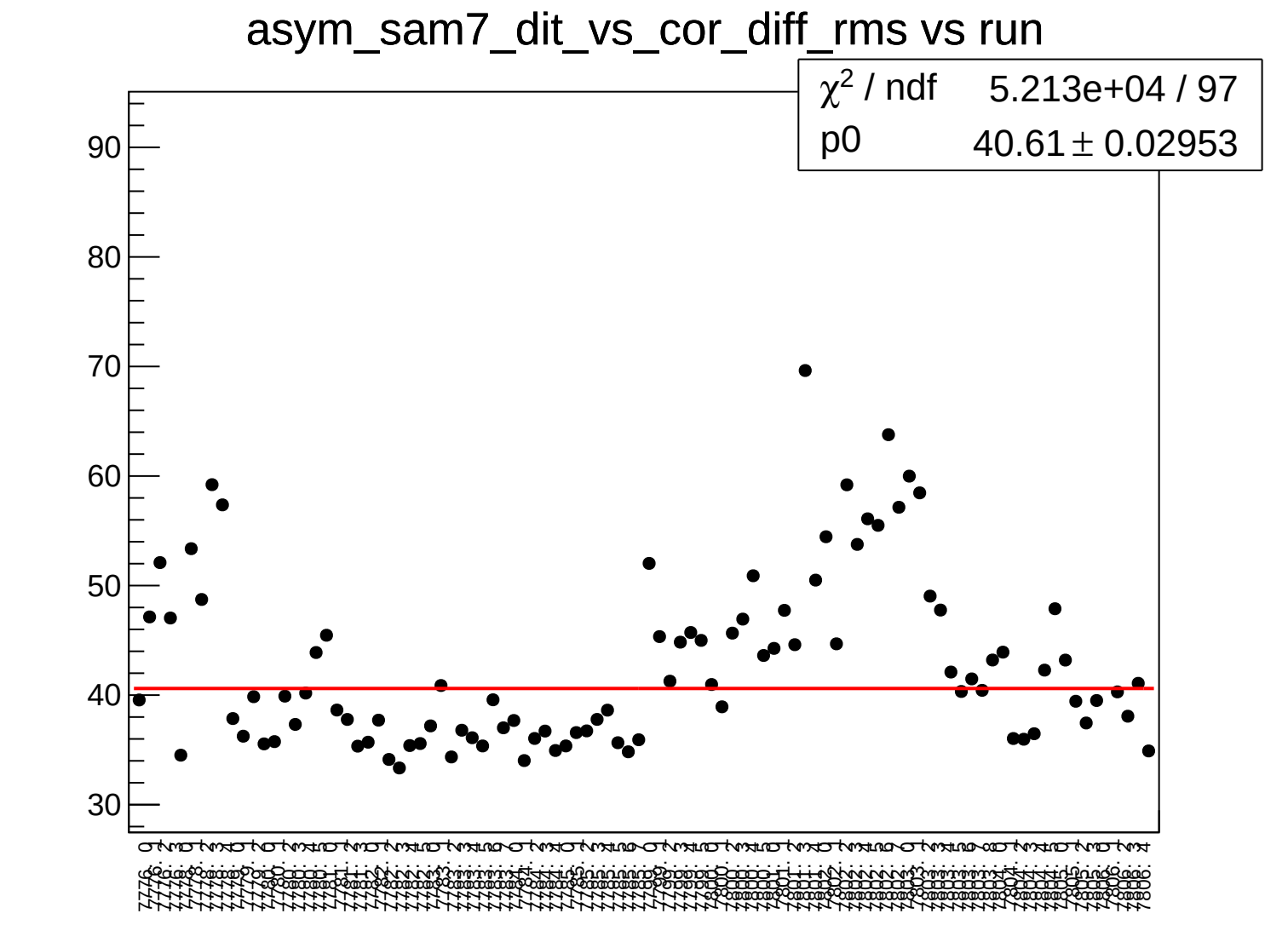

asym_sam7_rms vs run
χ² / ndf 3557 / 97
p0 1044 ± 0.7496
1200
1150
1100
1050
1000
950

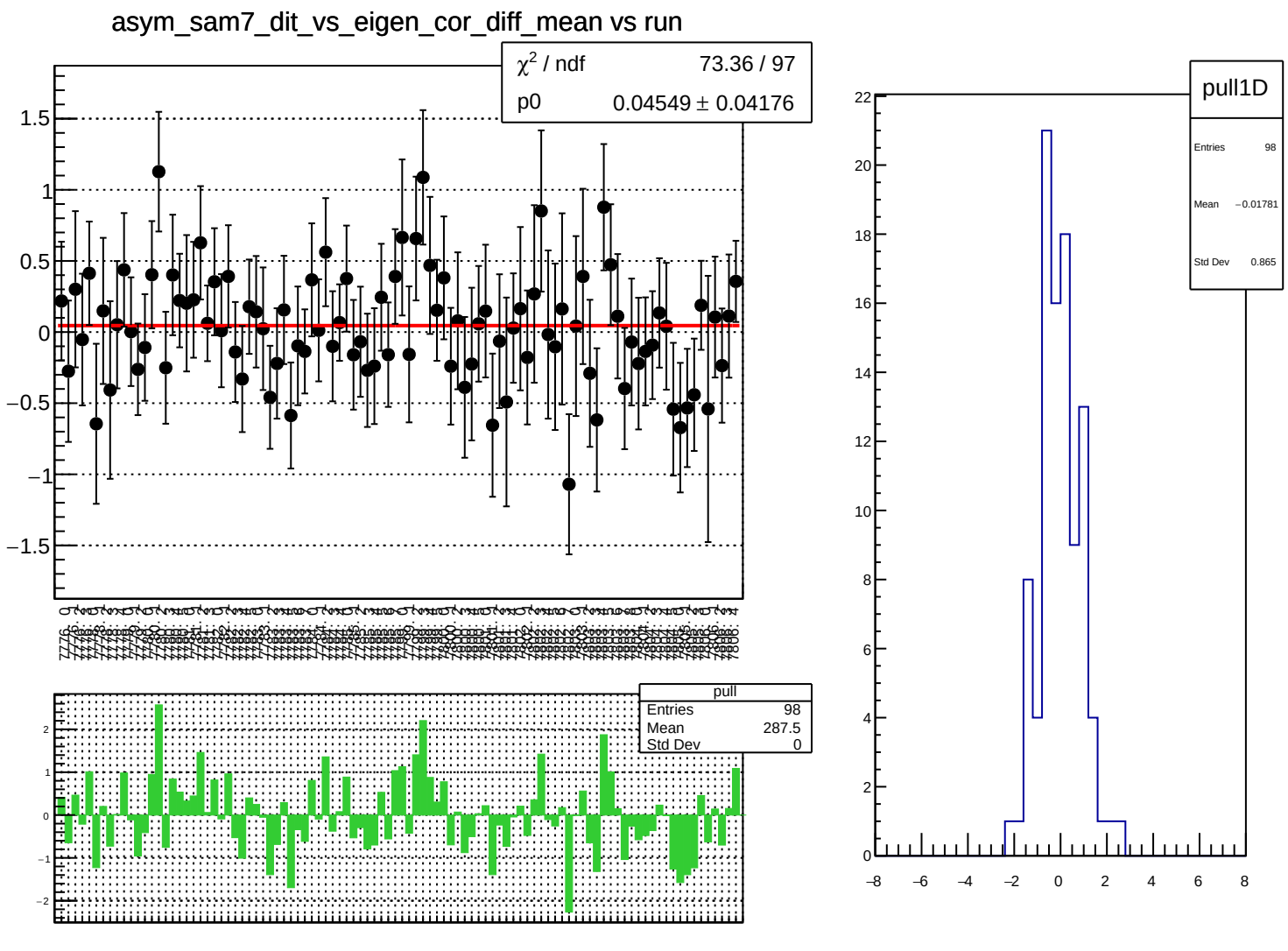

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 62.7 / 97
p0 3.337e−14 ± 1.585e−13
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 98
Mean 35.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

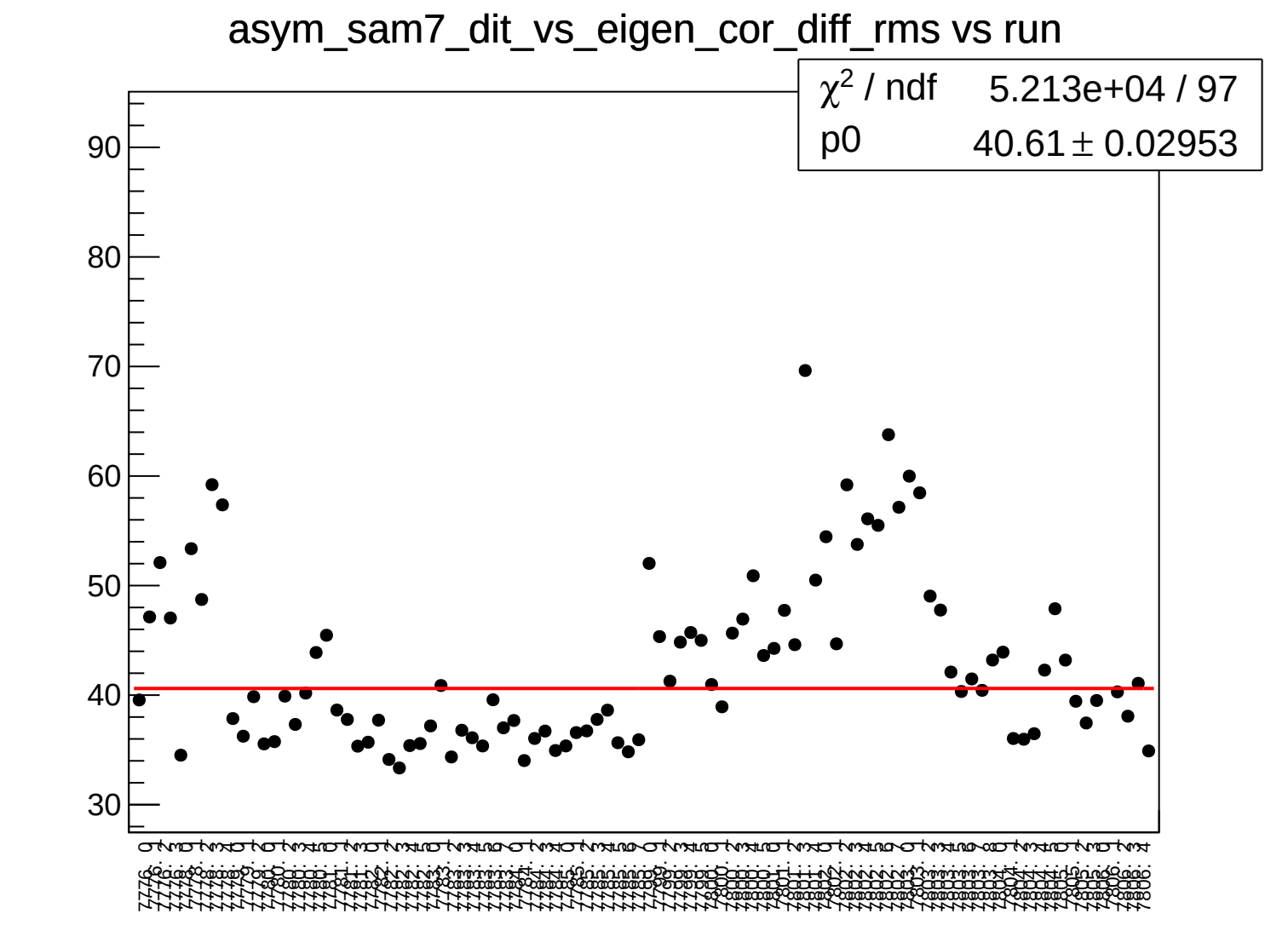

pull1D
Entries 98
Mean 0.02362
Std Dev 0.7995
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

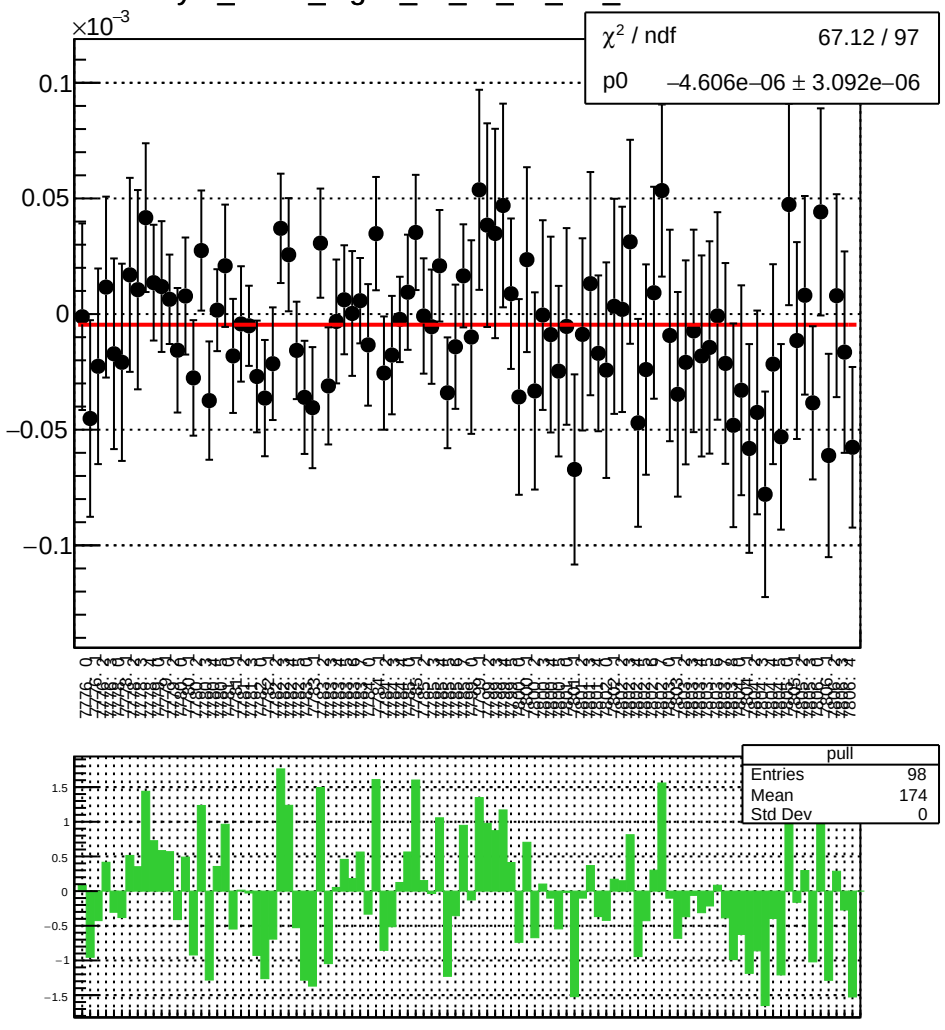

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.041e+06 / 97
p0 1.065e−10 ± 1.121e−13
0.05
0.04
0.03
0.02
0.01
0

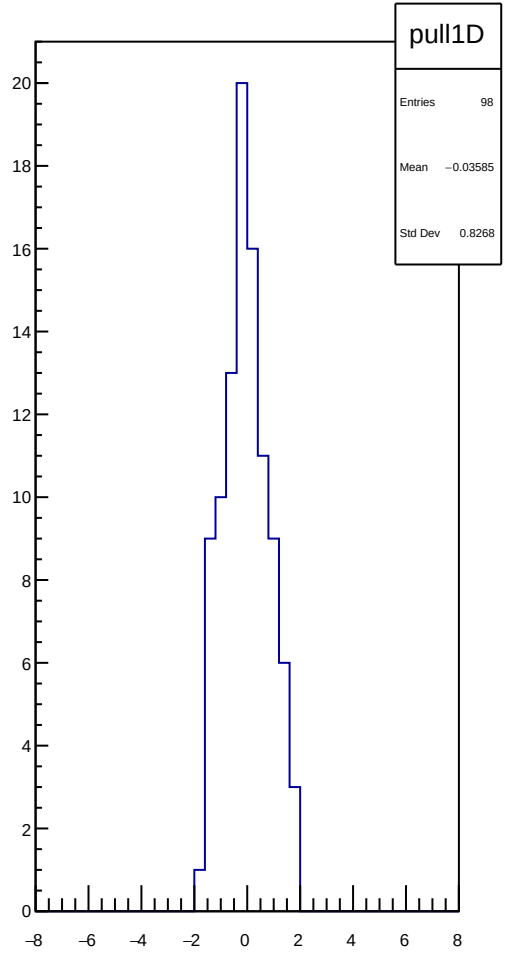

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 73.36 / 97
p0 0.04549 ± 0.04176
pull
Entries 98
Mean 287.5
Std Dev 0
pull1D
Entries 98
Mean −0.01781
Std Dev 0.865

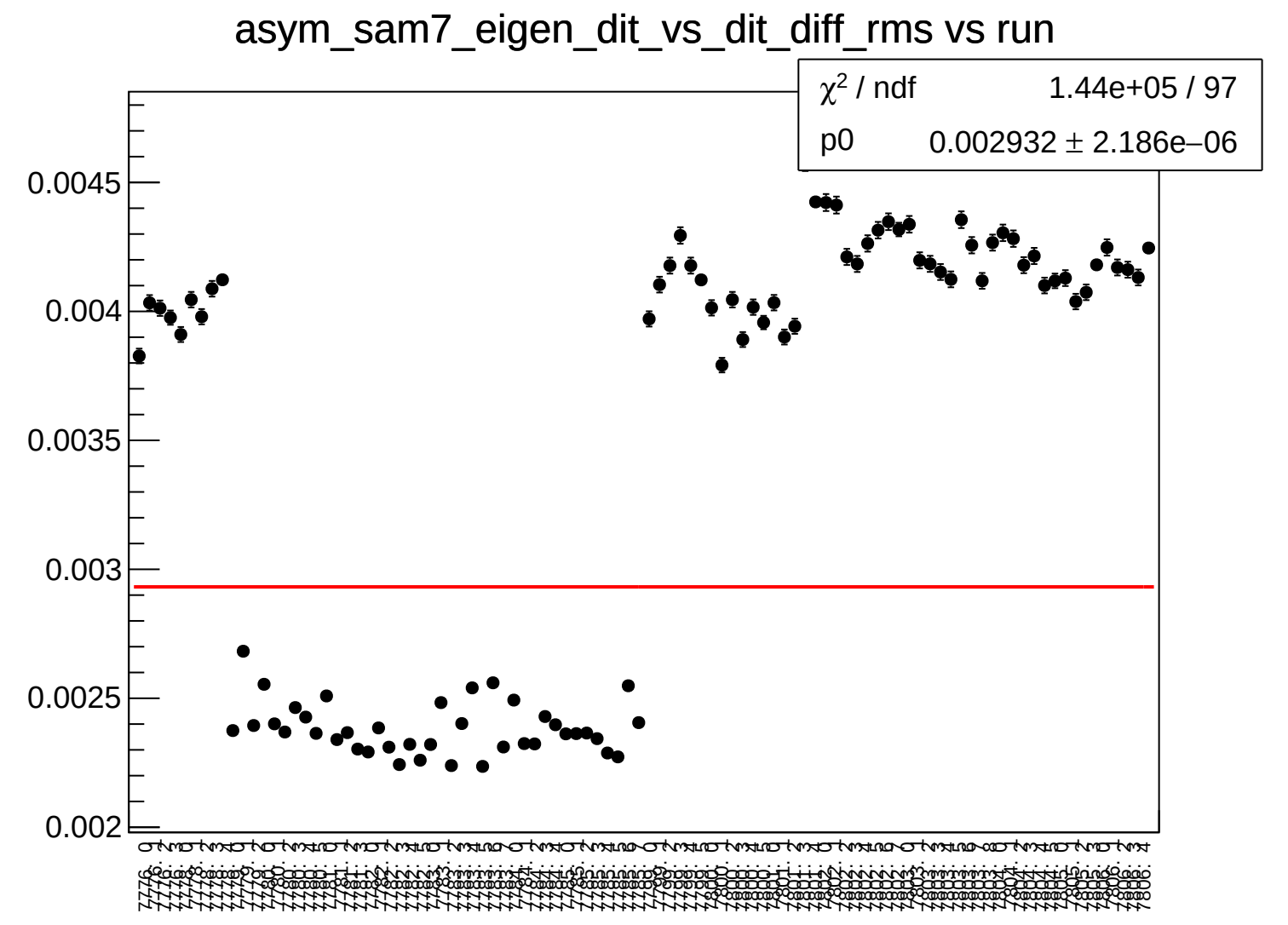

asym_sam7_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.213e+04 / 97
p0 40.61 ± 0.02953
90
80
70
60
50
40
30

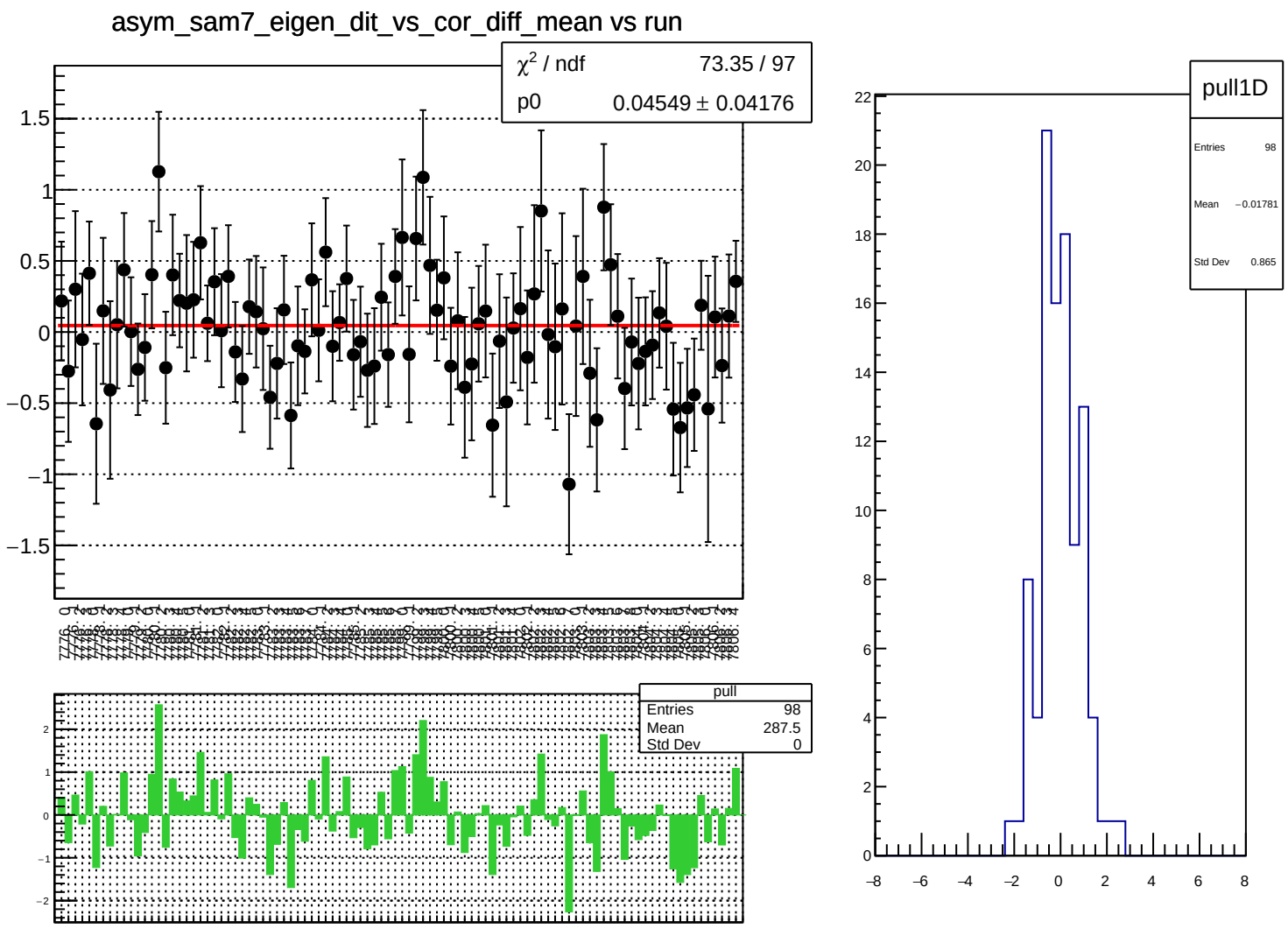

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.36 / 97
p0 0.04549 ± 0.04176
pull
Entries 98
Mean 287.5
Std Dev 0
pull1D
Entries 98
Mean −0.01781
Std Dev 0.865

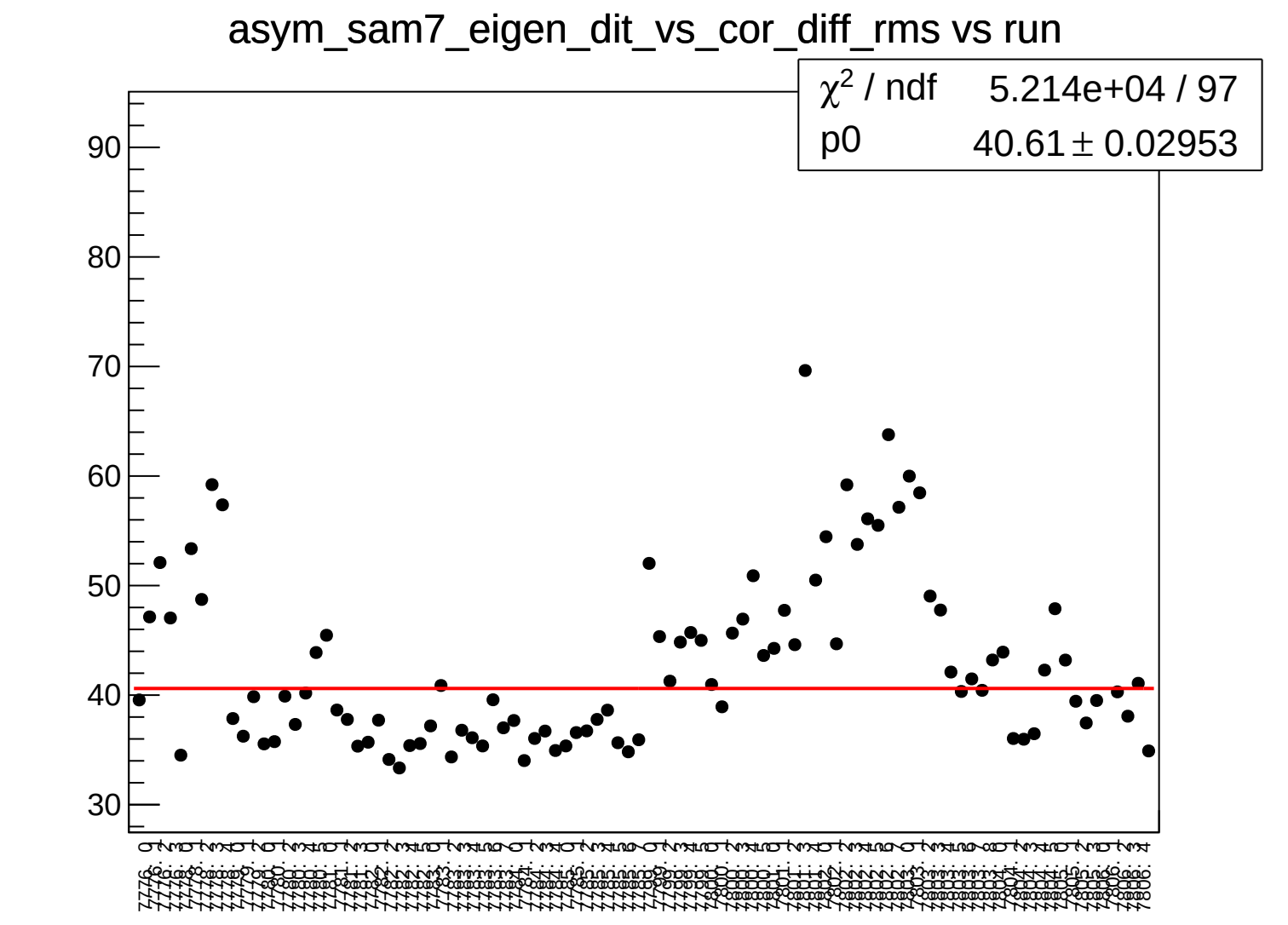

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.213e+04 / 97
p0 40.61 ± 0.02953
90
80
70
60
50
40
30

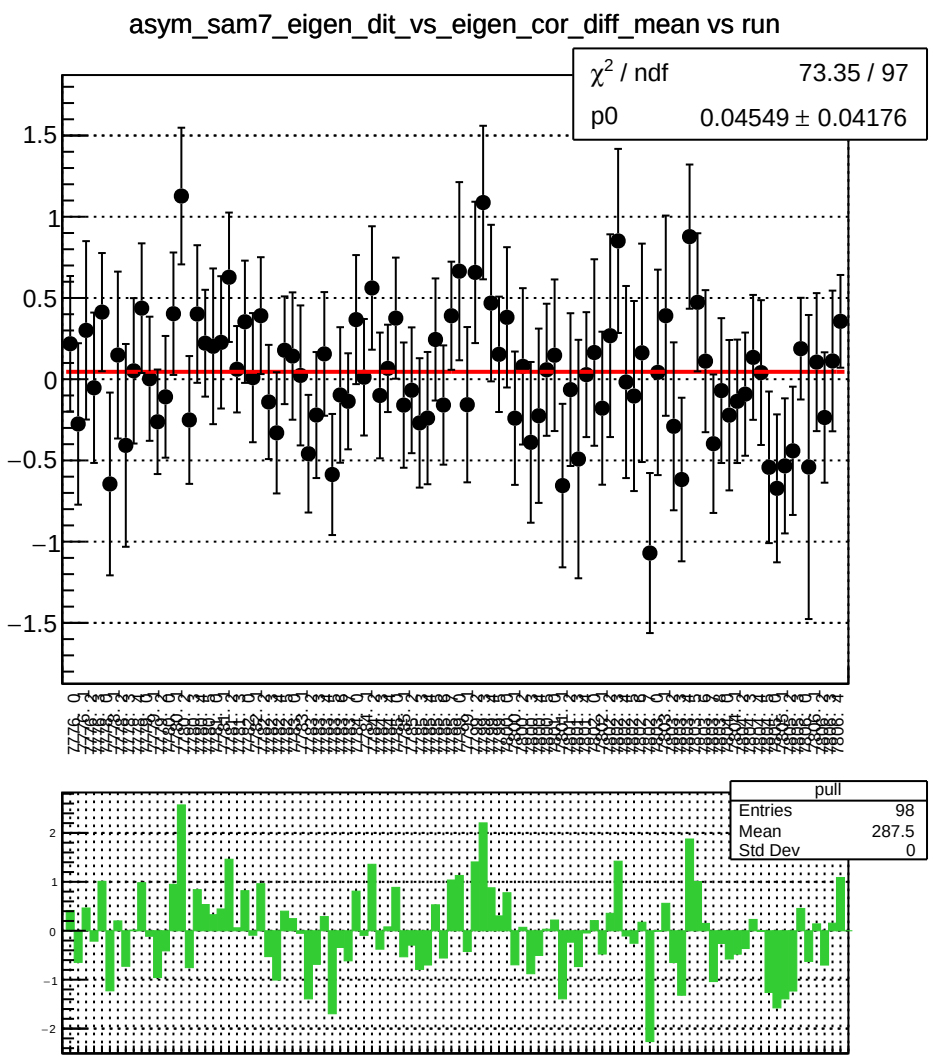

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.12 / 97
p0 −4.606e−06 ± 3.092e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 98
Mean 174
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

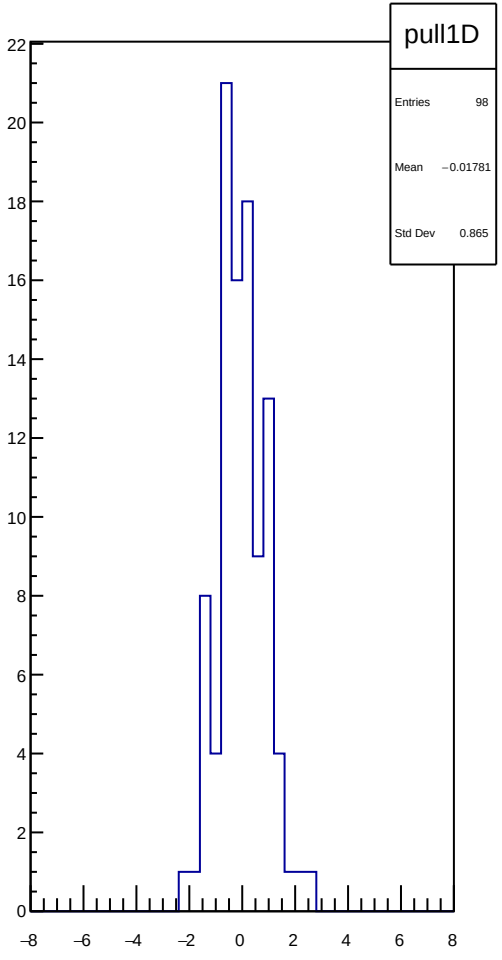

pull1D
Entries 98
Mean −0.03585
Std Dev 0.8268
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

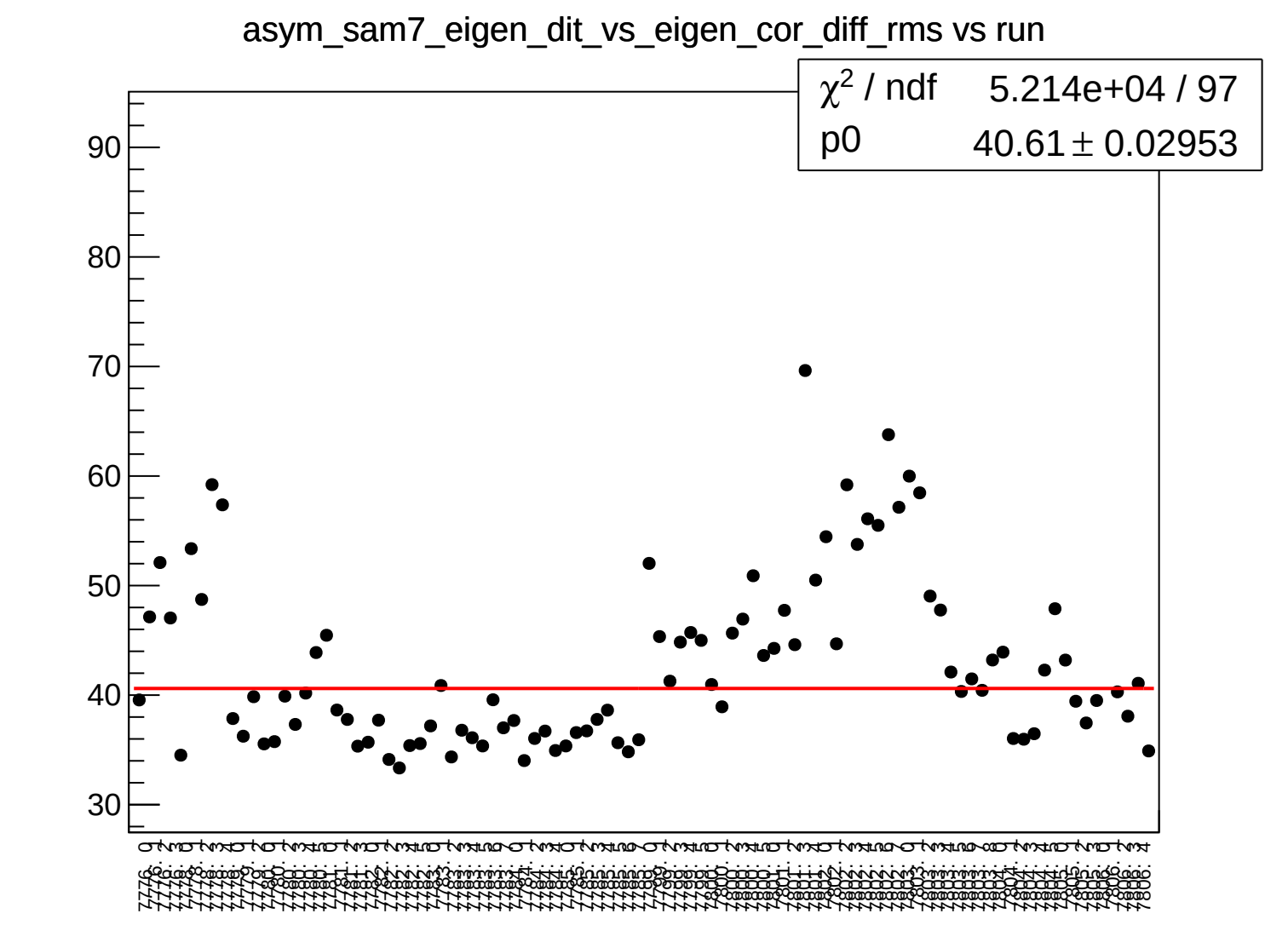

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.44e+05 / 97
p0 0.002932 ± 2.186e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

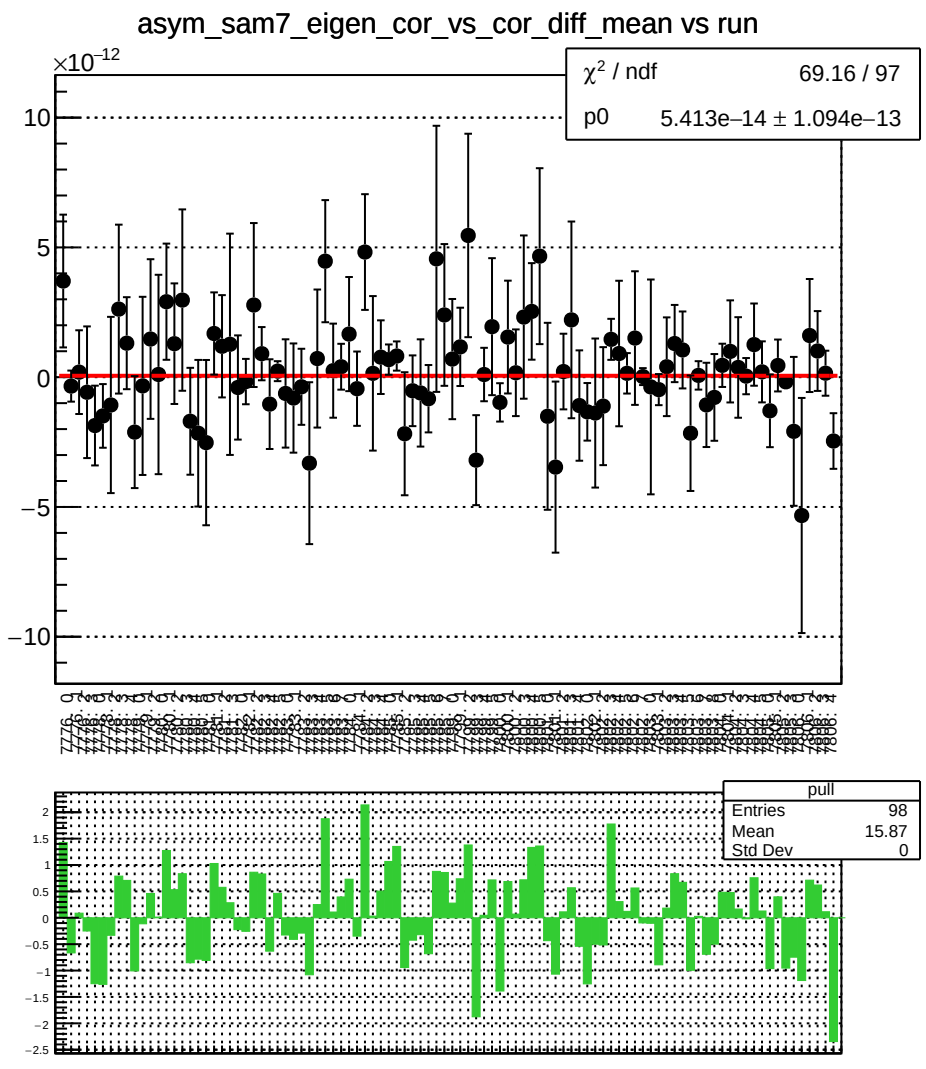

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.35 / 97
p0 0.04549 ± 0.04176
pull
Entries 98
Mean 287.5
Std Dev 0
pull1D
Entries 98
Mean −0.01781
Std Dev 0.865

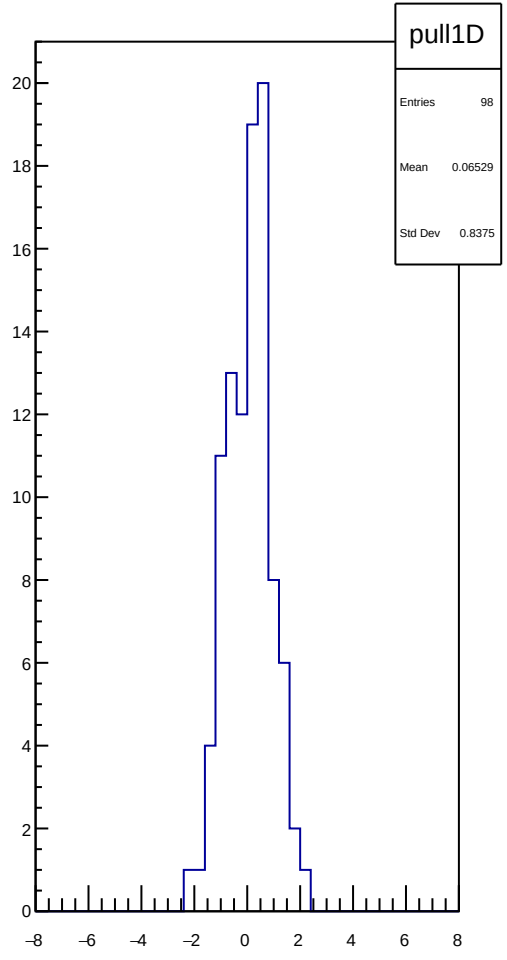

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.214e+04 / 97
p0 40.61 ± 0.02953
90
80
70
60
50
40
30

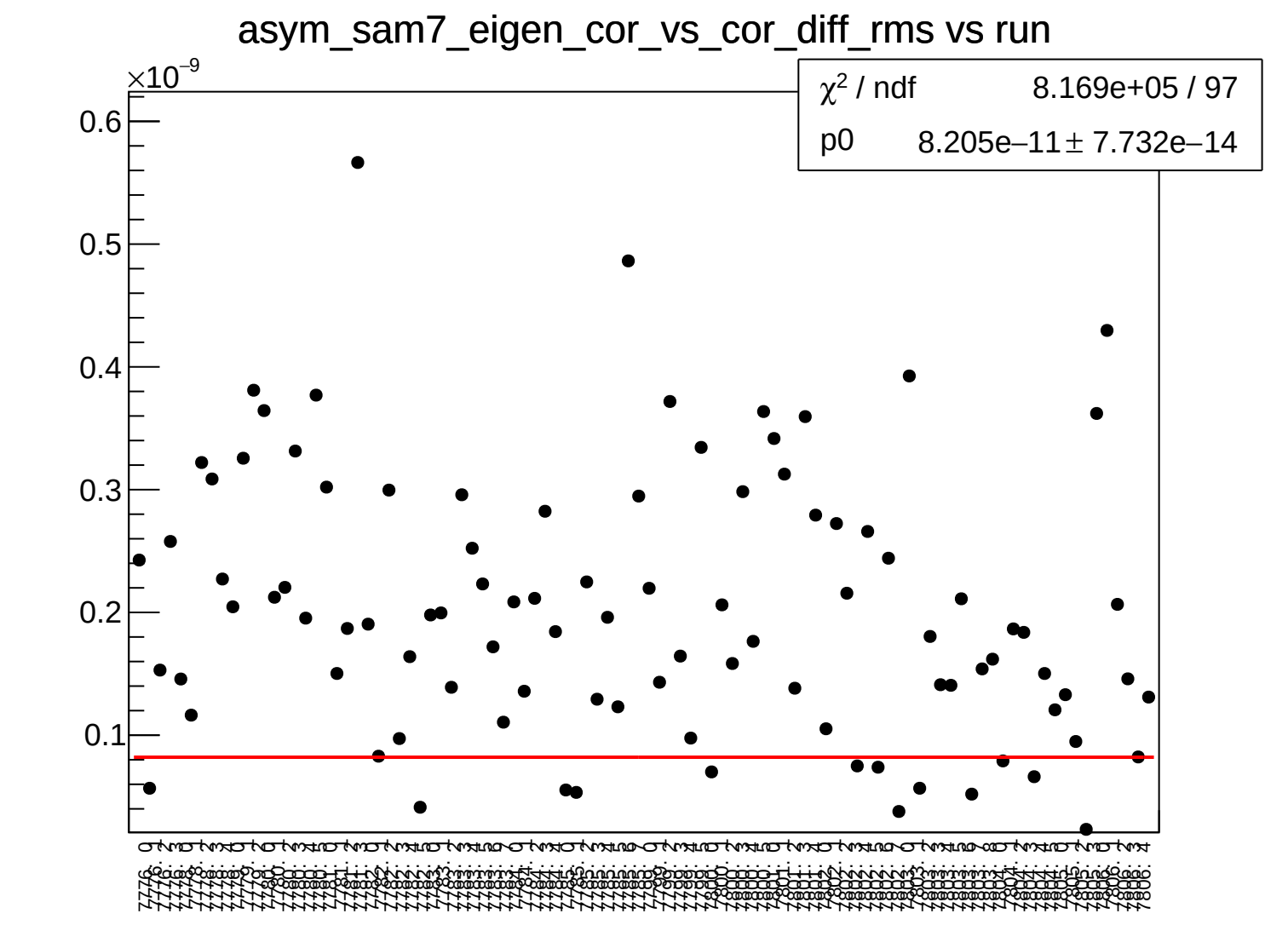

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.35 / 97
p0 0.04549 ± 0.04176
pull
Entries 98
Mean 287.5
Std Dev 0

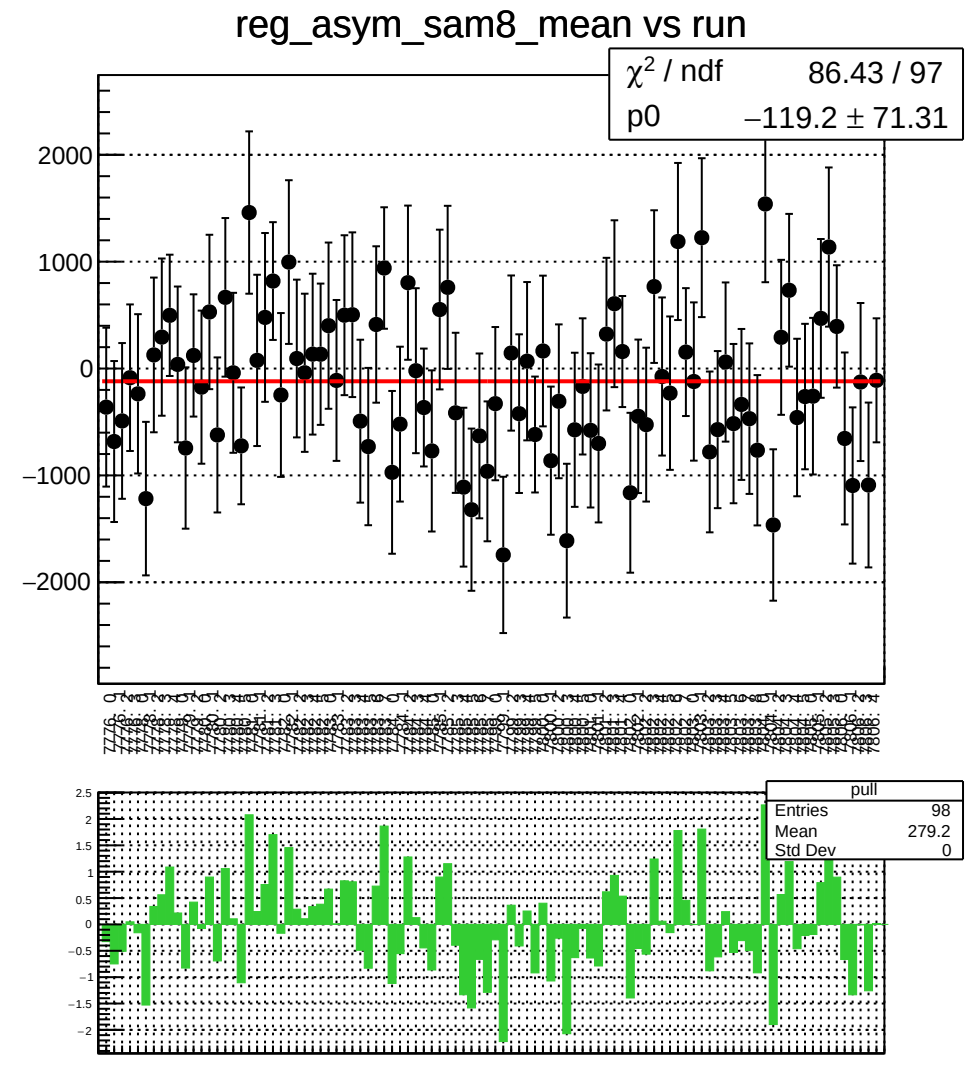

pull1D
Entries 98
Mean −0.01781
Std Dev 0.865

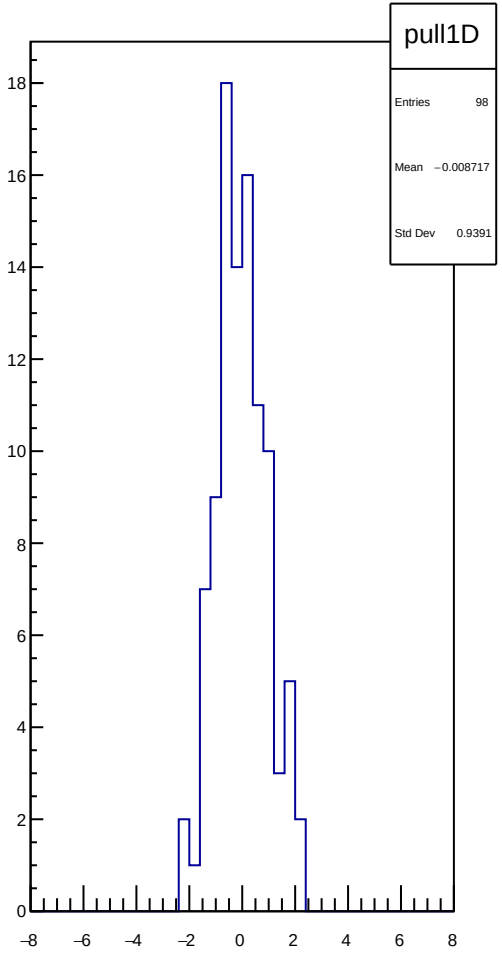

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.214e+04 / 97
p0 40.61 ± 0.02953
90
80
70
60
50
40
30

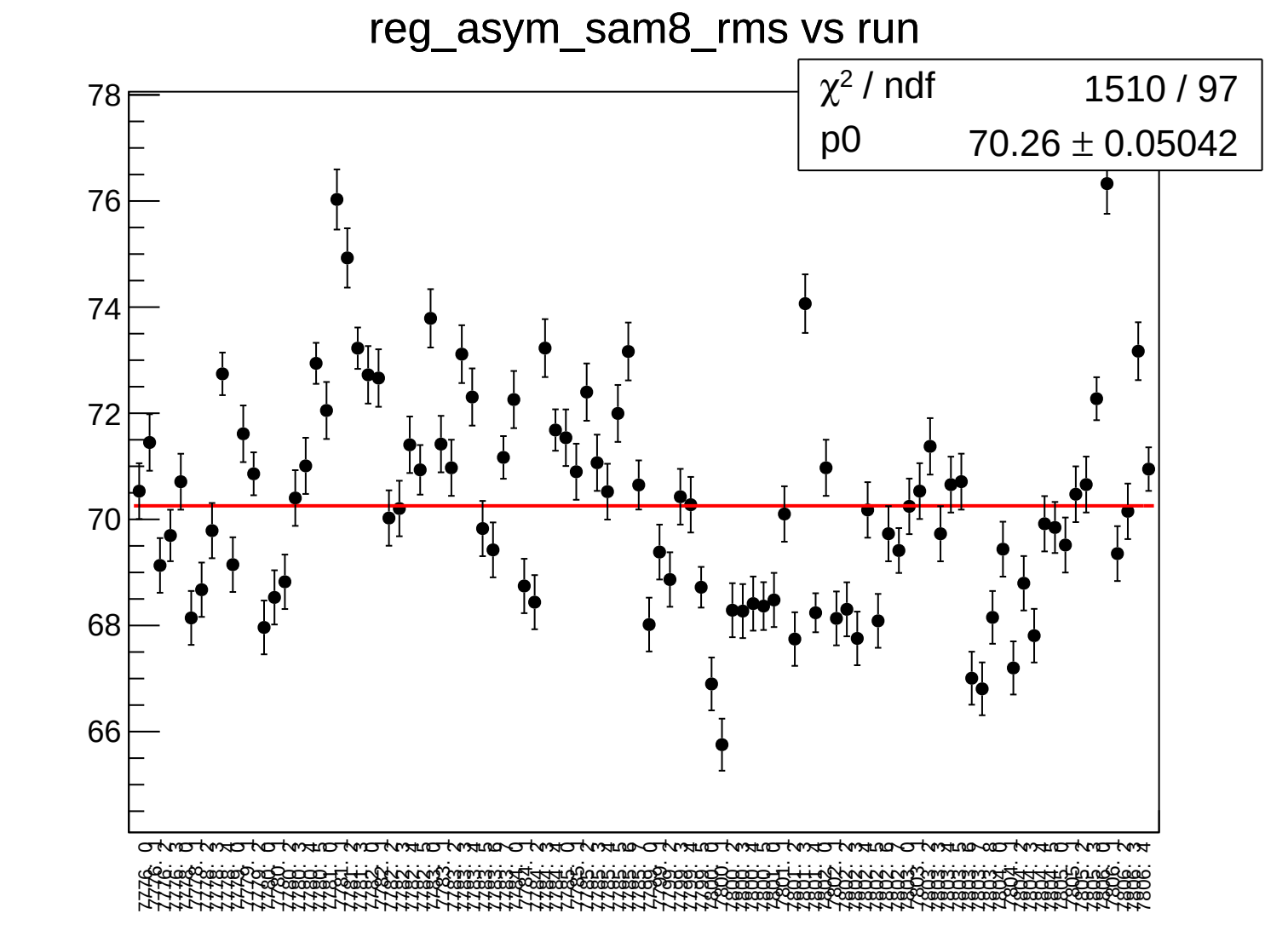

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.16 / 97
p0 5.413e−14 ± 1.094e−13
10
5
0
−5
−10
pull
Entries 98
Mean 15.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

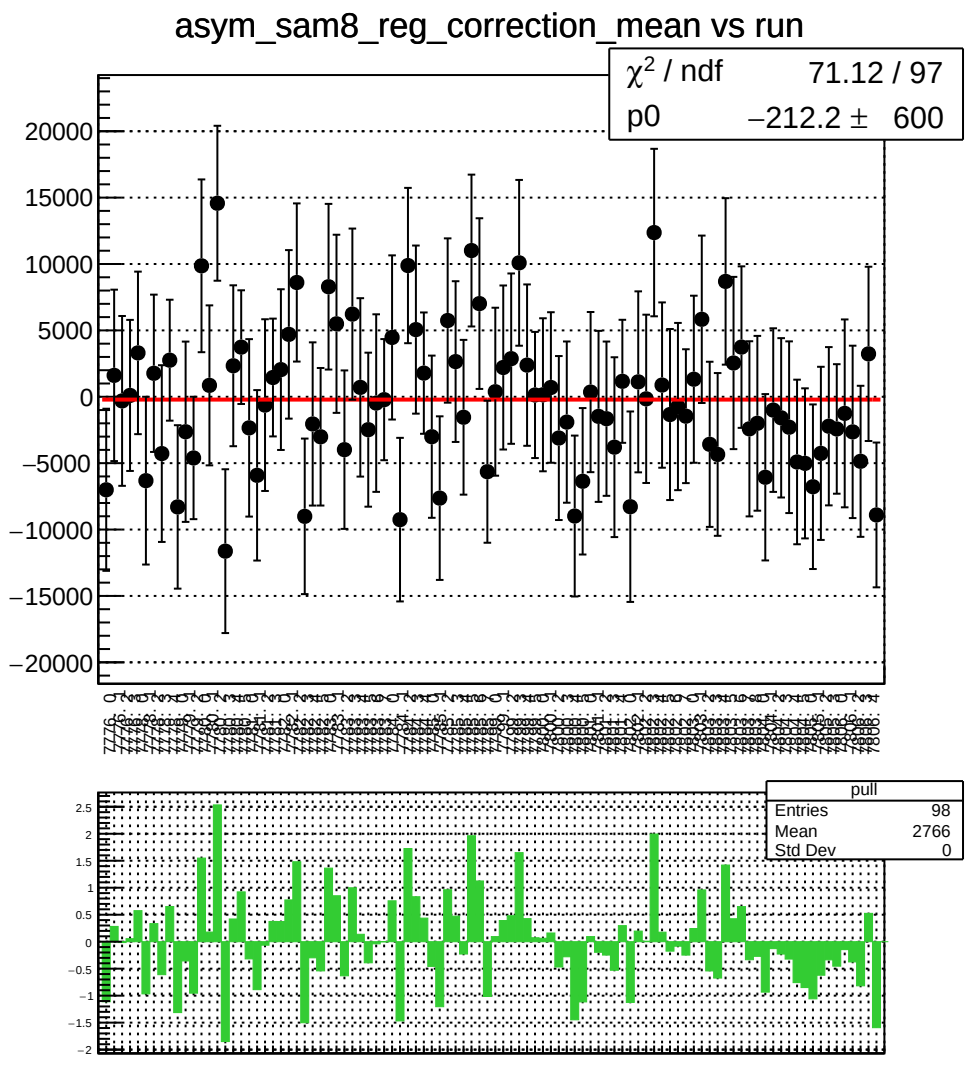

pull1D
Entries 98
Mean 0.06529
Std Dev 0.8375
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

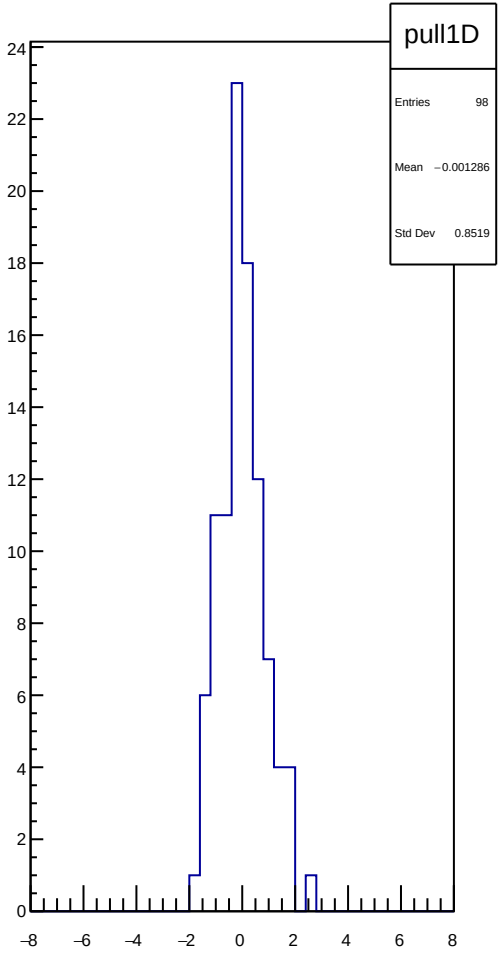

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.169e+05 / 97
p0 8.205e−11 ± 7.732e−14
0.6
0.5
0.4
0.3
0.2
0.1

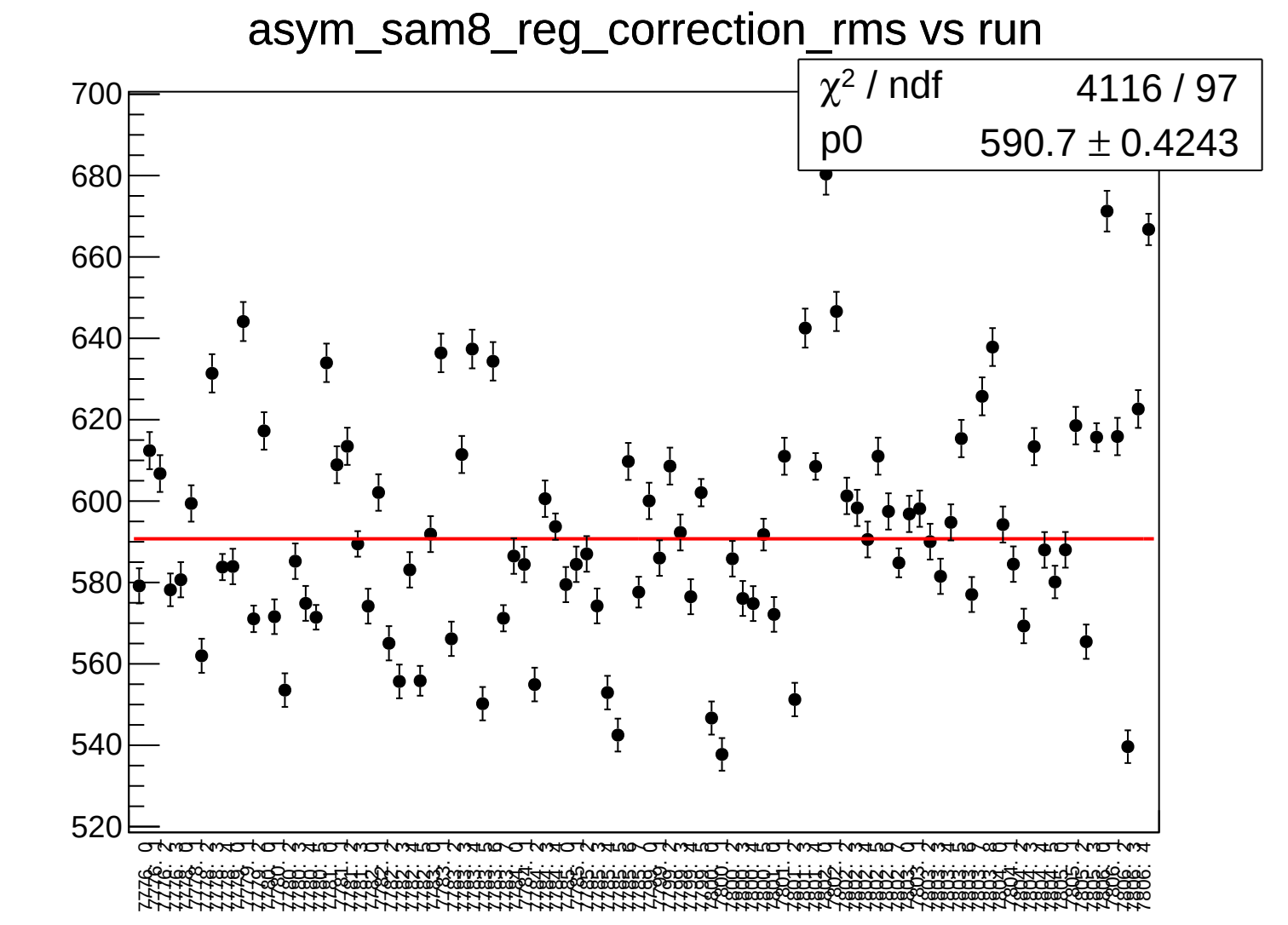

reg_asym_sam8_mean vs run
χ² / ndf 86.43 / 97
p0 −119.2 ± 71.31
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 279.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

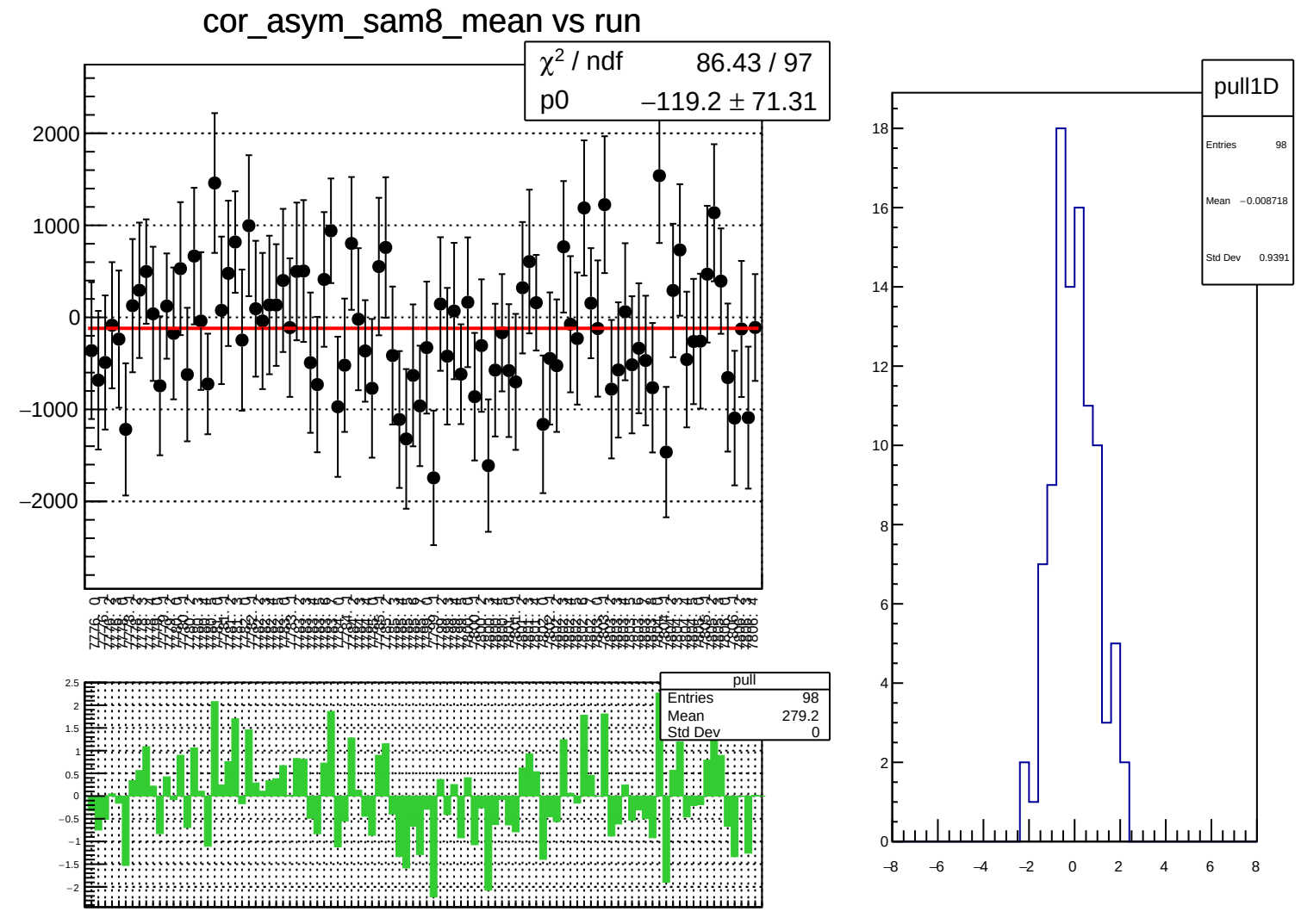

pull1D
Entries 98
Mean −0.008717
Std Dev 0.9391
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

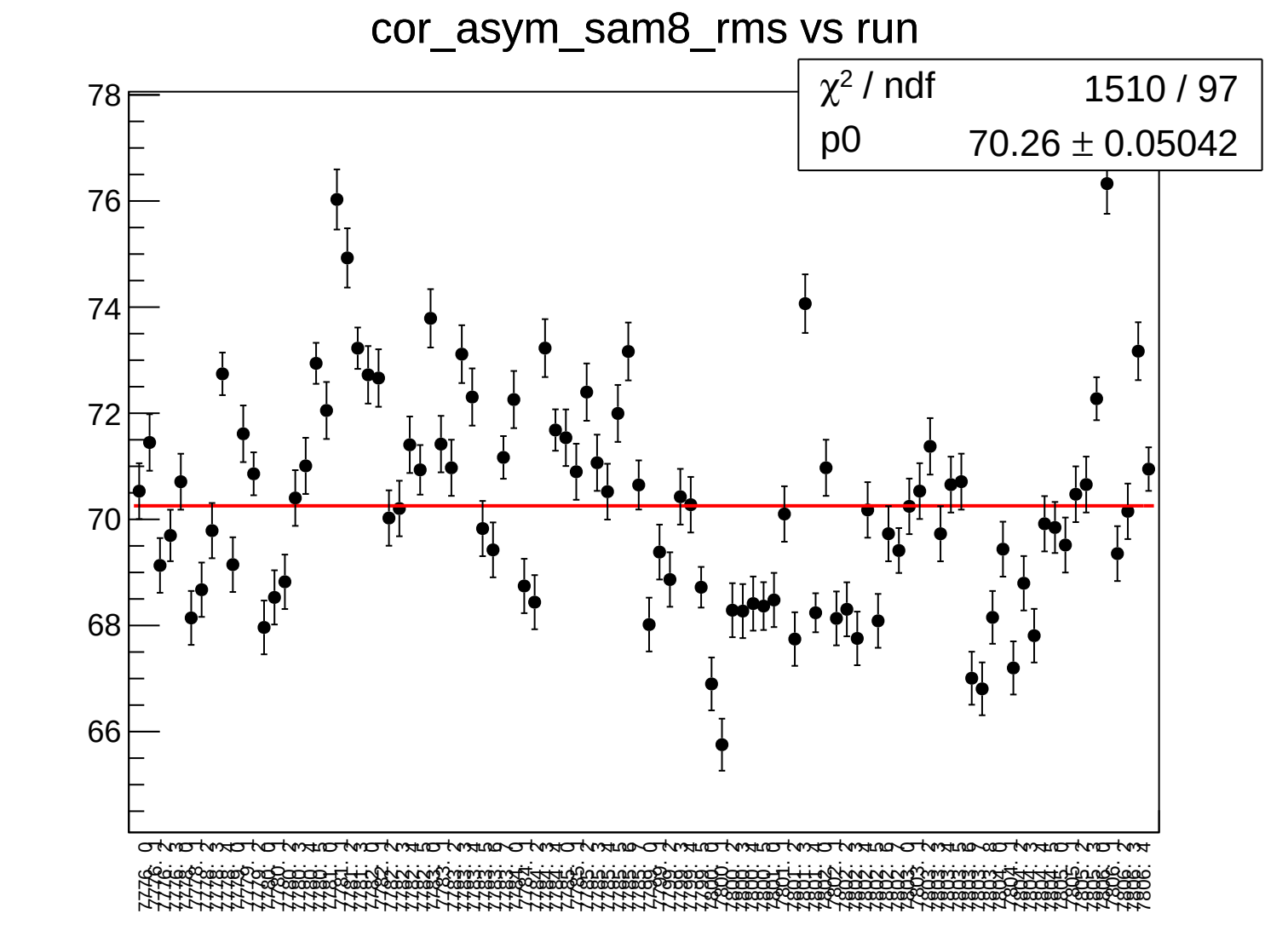

reg_asym_sam8_rms vs run
χ^2 / ndf 1510 / 97
p0 70.26 ± 0.05042
78
76
74
72
70
68
66

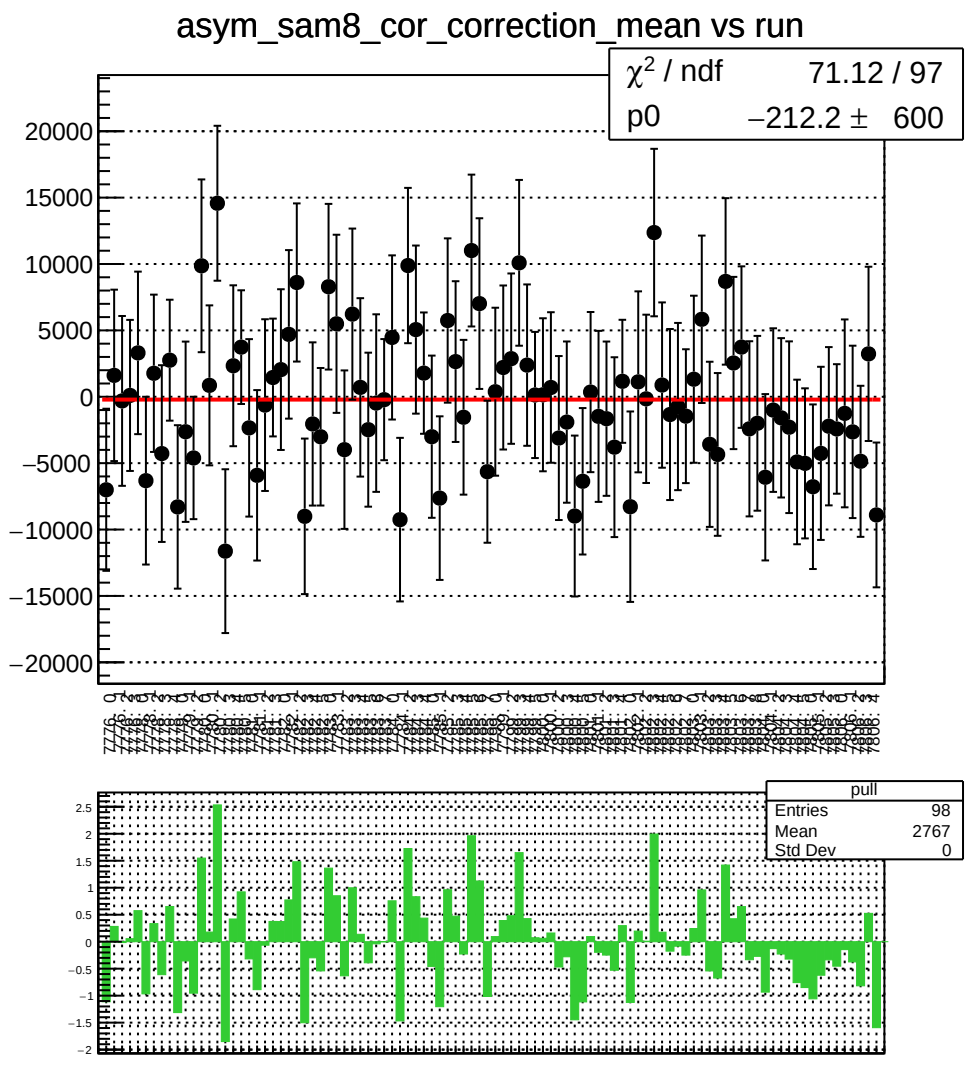

asym_sam8_reg_correction_mean vs run
χ² / ndf 71.12 / 97
p0 −212.2 ± 600
pull
Entries 98
Mean 2766
Std Dev 0

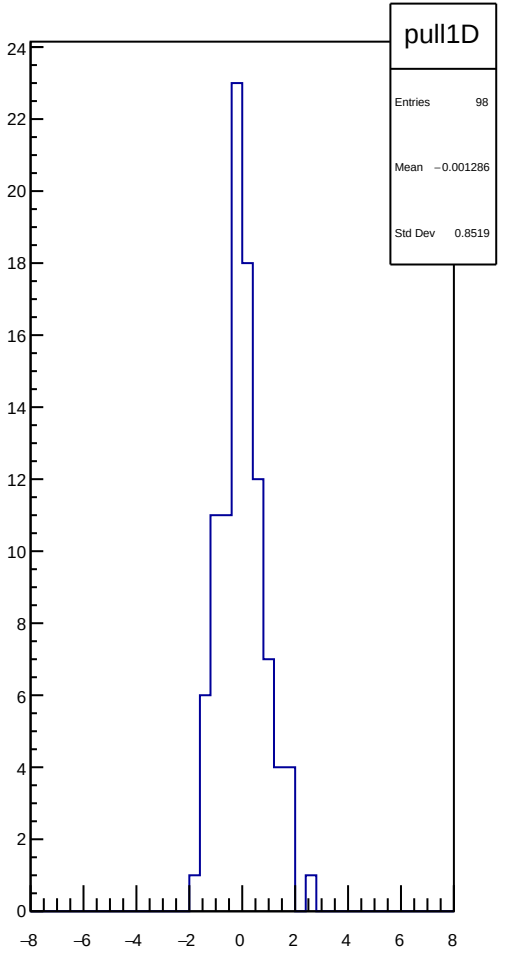

pull1D
Entries 98
Mean −0.001286
Std Dev 0.8519

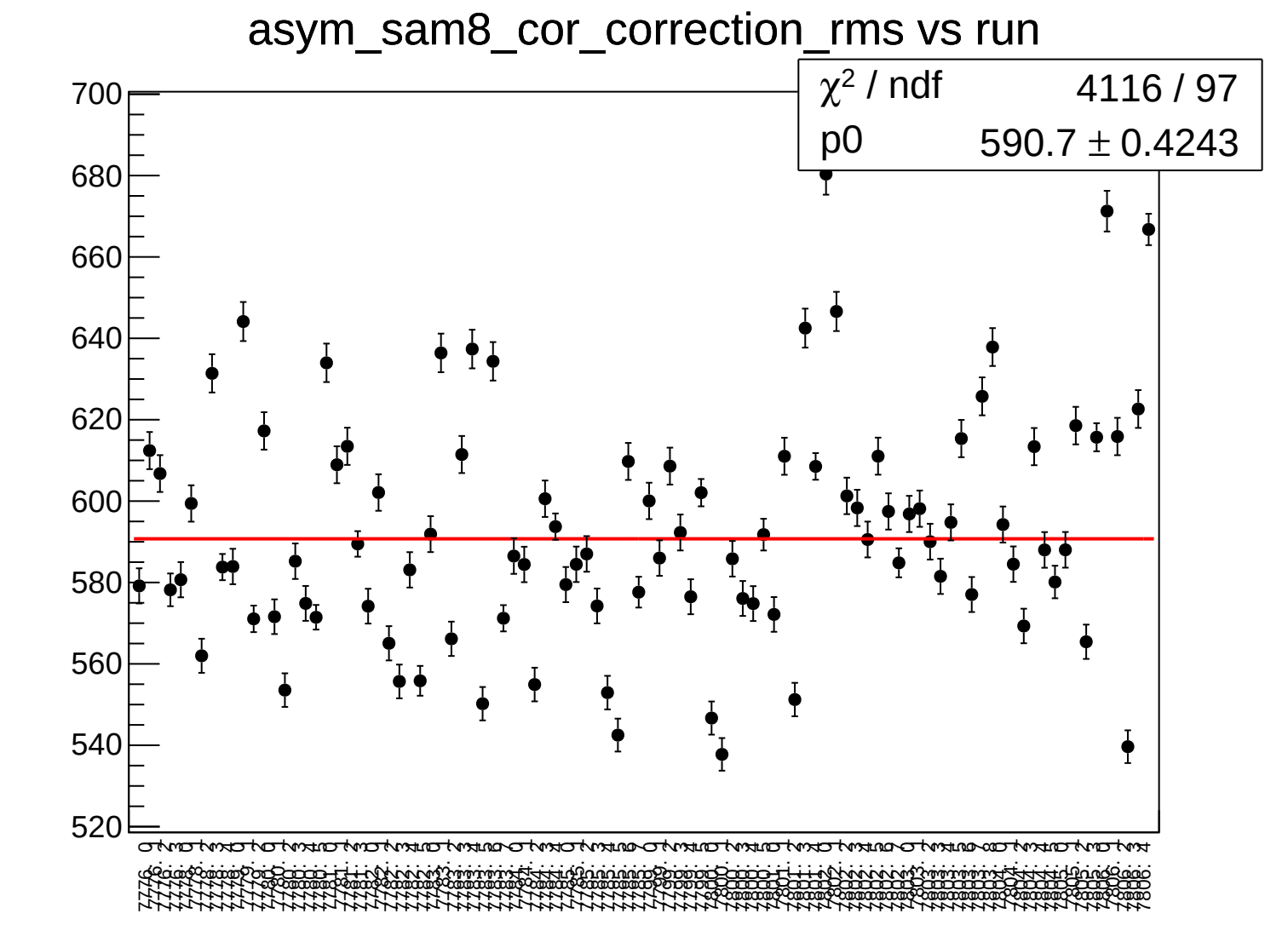

asym_sam8_reg_correction_rms vs run
χ² / ndf 4116 / 97
p0 590.7 ± 0.4243
700
680
660
640
620
600
580
560
540
520

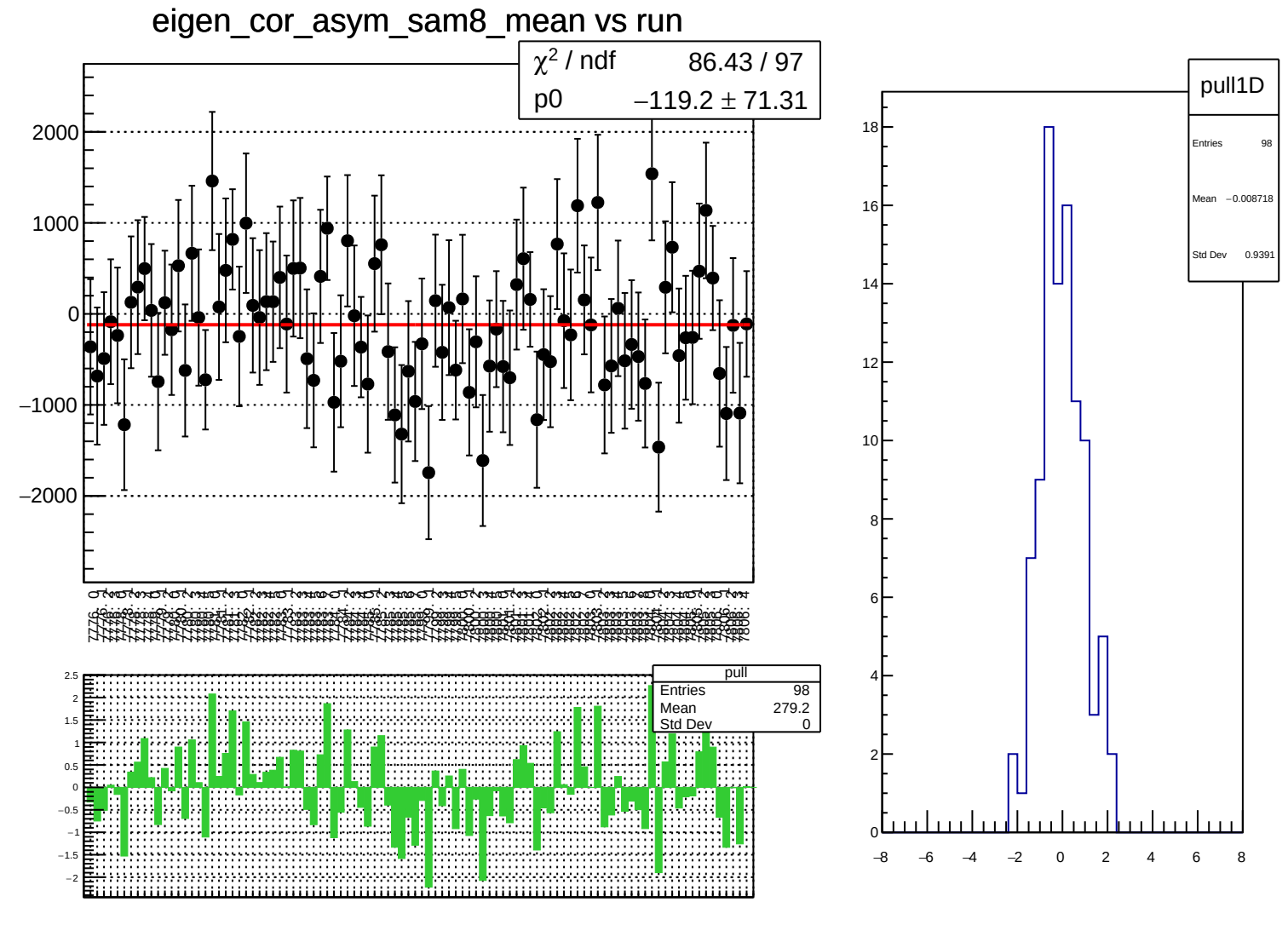

cor_asym_sam8_mean vs run
χ² / ndf 86.43 / 97
p0 −119.2 ± 71.31
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 279.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.008718
Std Dev 0.9391
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

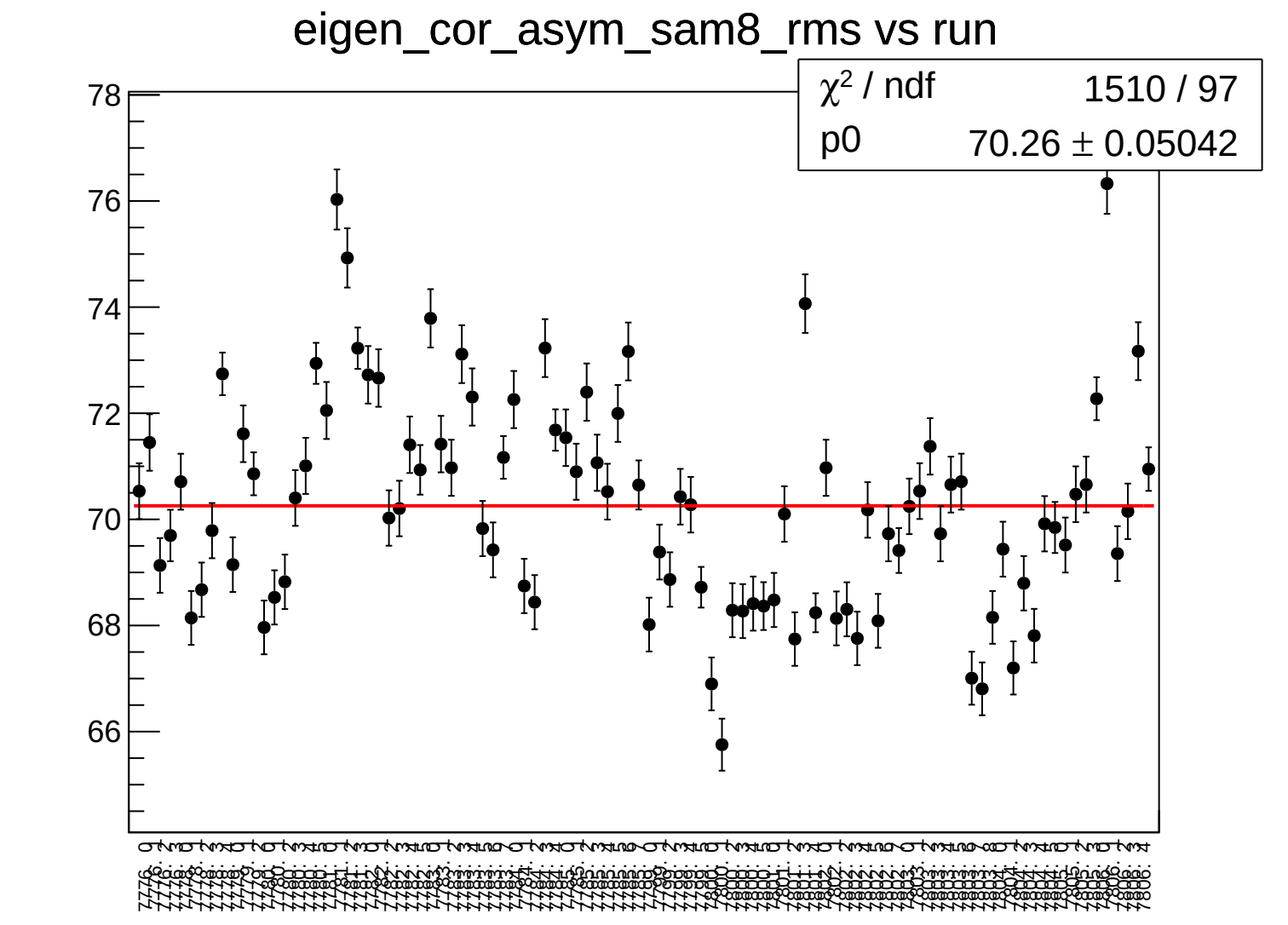

cor_asym_sam8_rms vs run
χ² / ndf 1510 / 97
p0 70.26 ± 0.05042
78
76
74
72
70
68
66

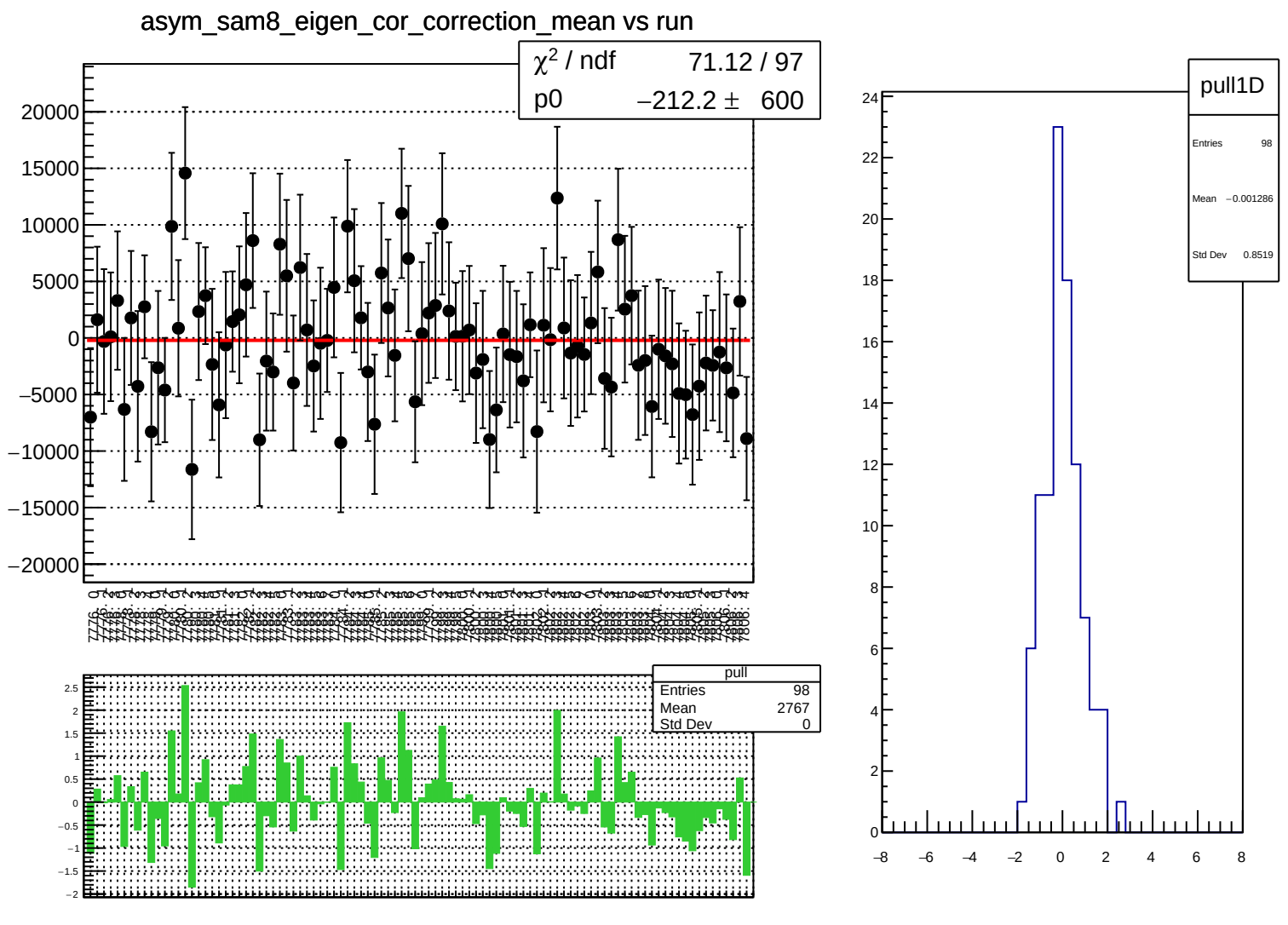

asym_sam8_cor_correction_mean vs run
χ² / ndf 71.12 / 97
p0 −212.2 ± 600
pull
Entries 98
Mean 2767
Std Dev 0

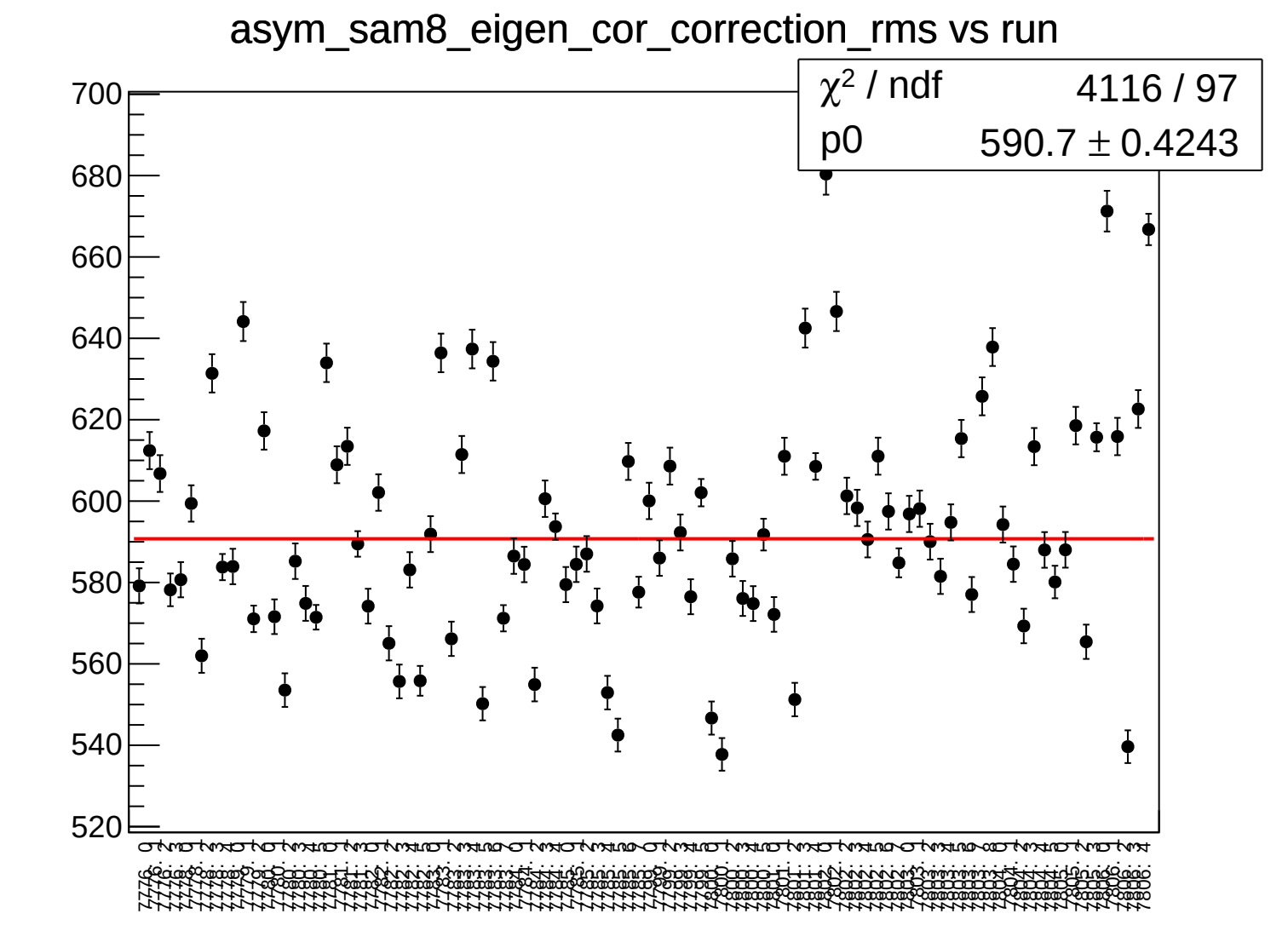

pull1D
Entries 98
Mean −0.001286
Std Dev 0.8519

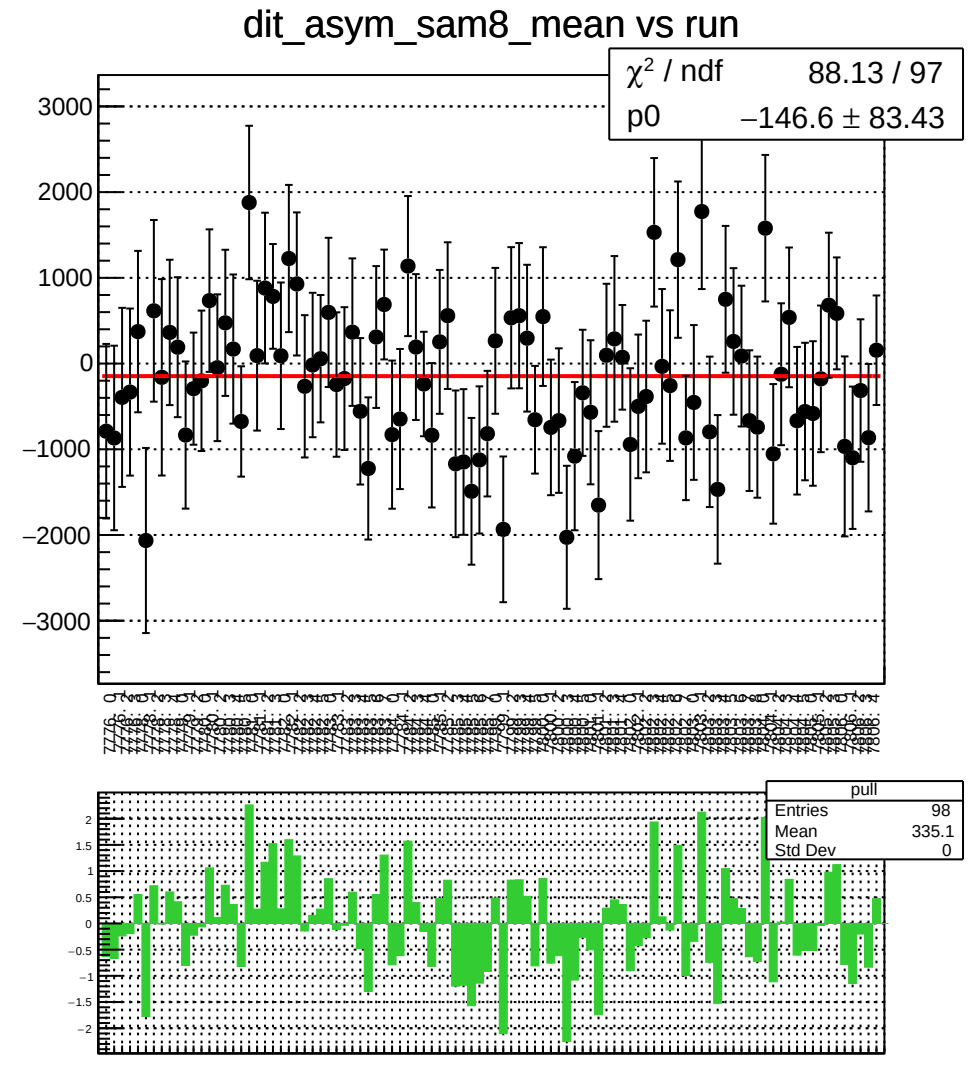

asym_sam8_cor_correction_rms vs run
χ² / ndf 4116 / 97
p0 590.7 ± 0.4243
700
680
660
640
620
600
580
560
540
520

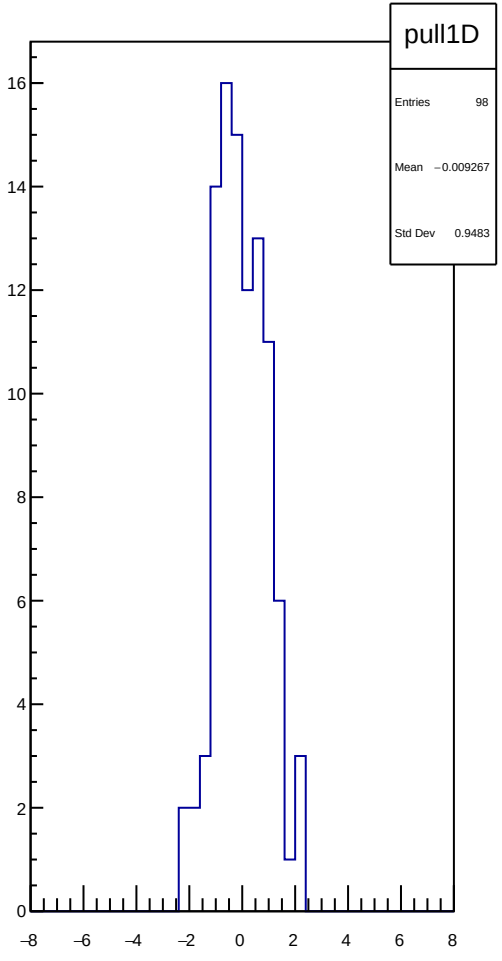

eigen_cor_asym_sam8_mean vs run
χ² / ndf 86.43 / 97
p0 −119.2 ± 71.31
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 279.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.008718
Std Dev 0.9391
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

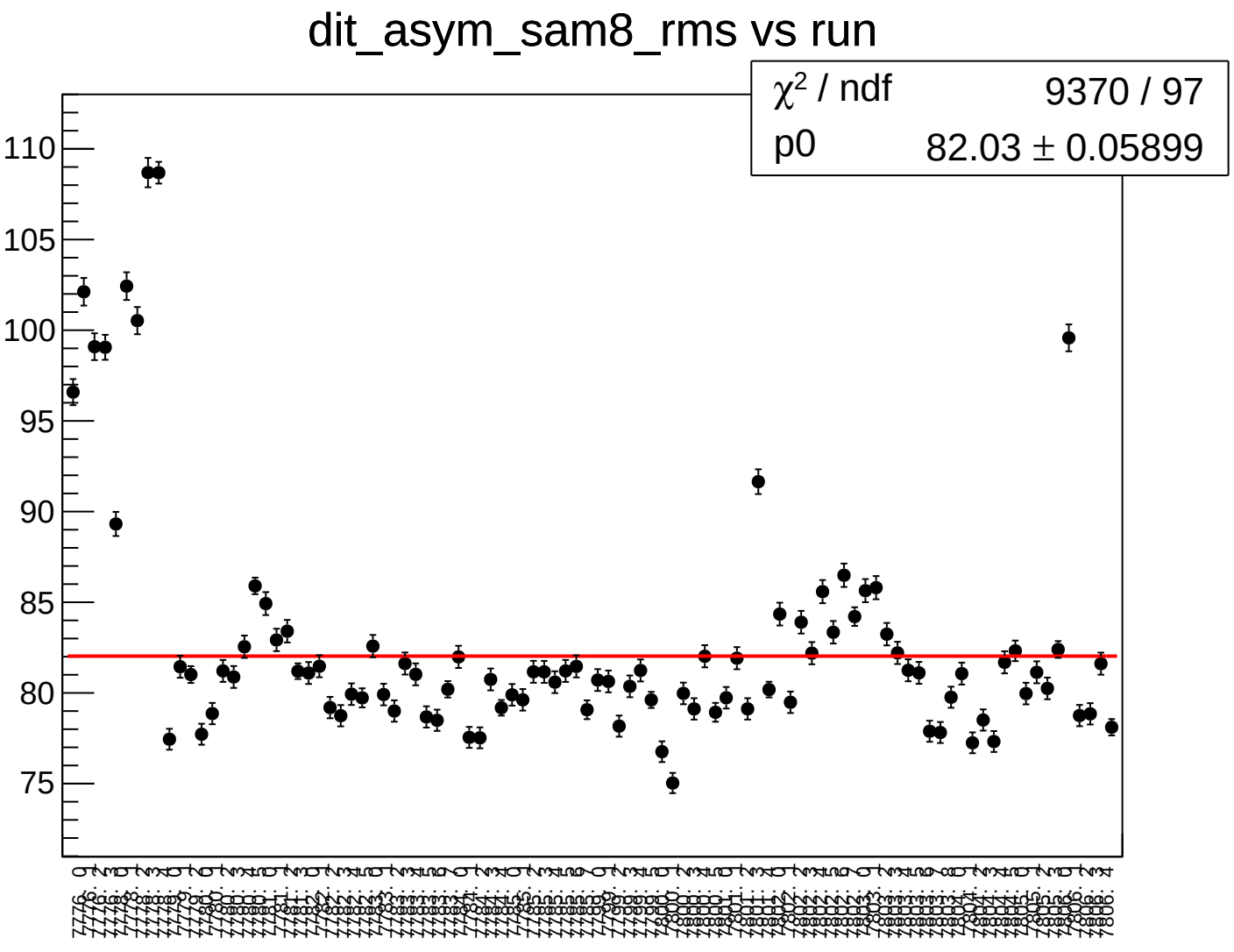

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 1510 / 97
p0 70.26 ± 0.05042
78
76
74
72
70
68
66

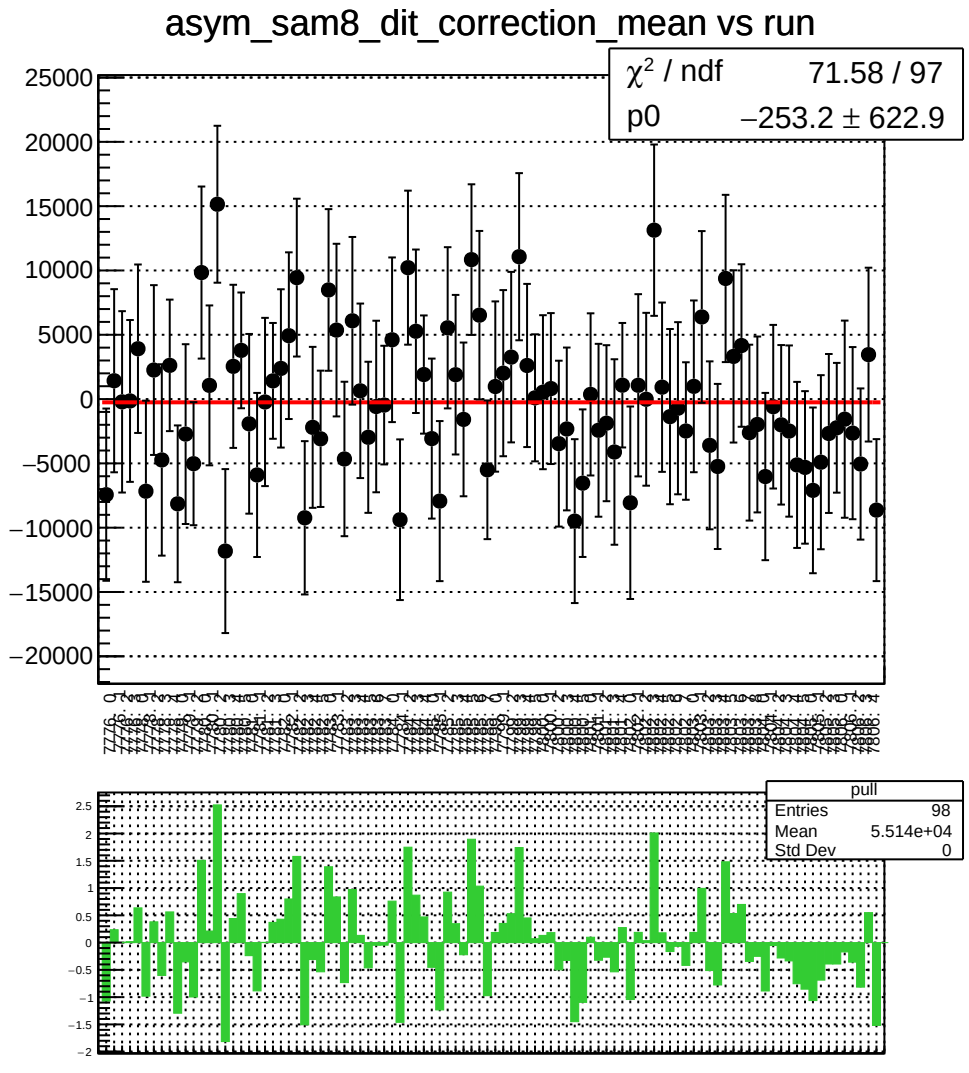

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 71.12 / 97
p0 −212.2 ± 600
pull
Entries 98
Mean 2767
Std Dev 0
pull1D
Entries 98
Mean −0.001286
Std Dev 0.8519

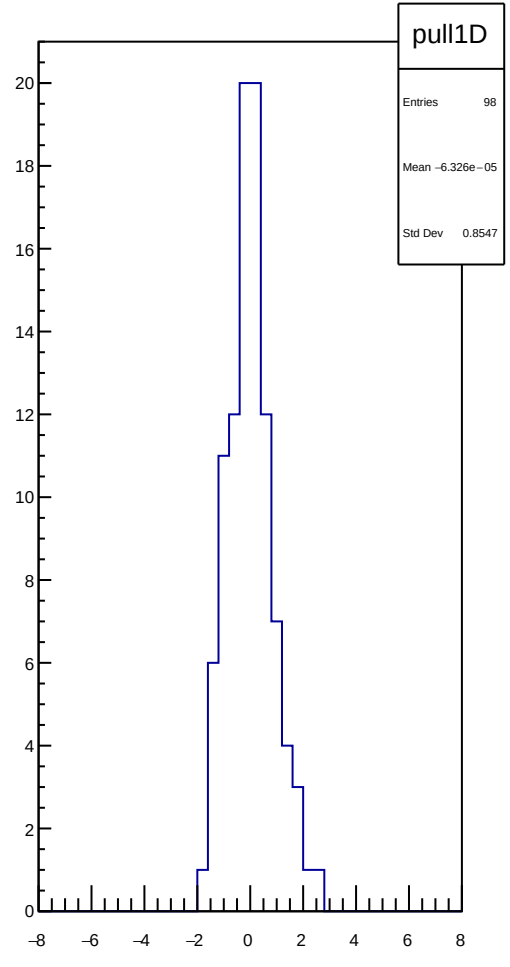

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 4116 / 97
p0 590.7 ± 0.4243
700
680
660
640
620
600
580
560
540
520

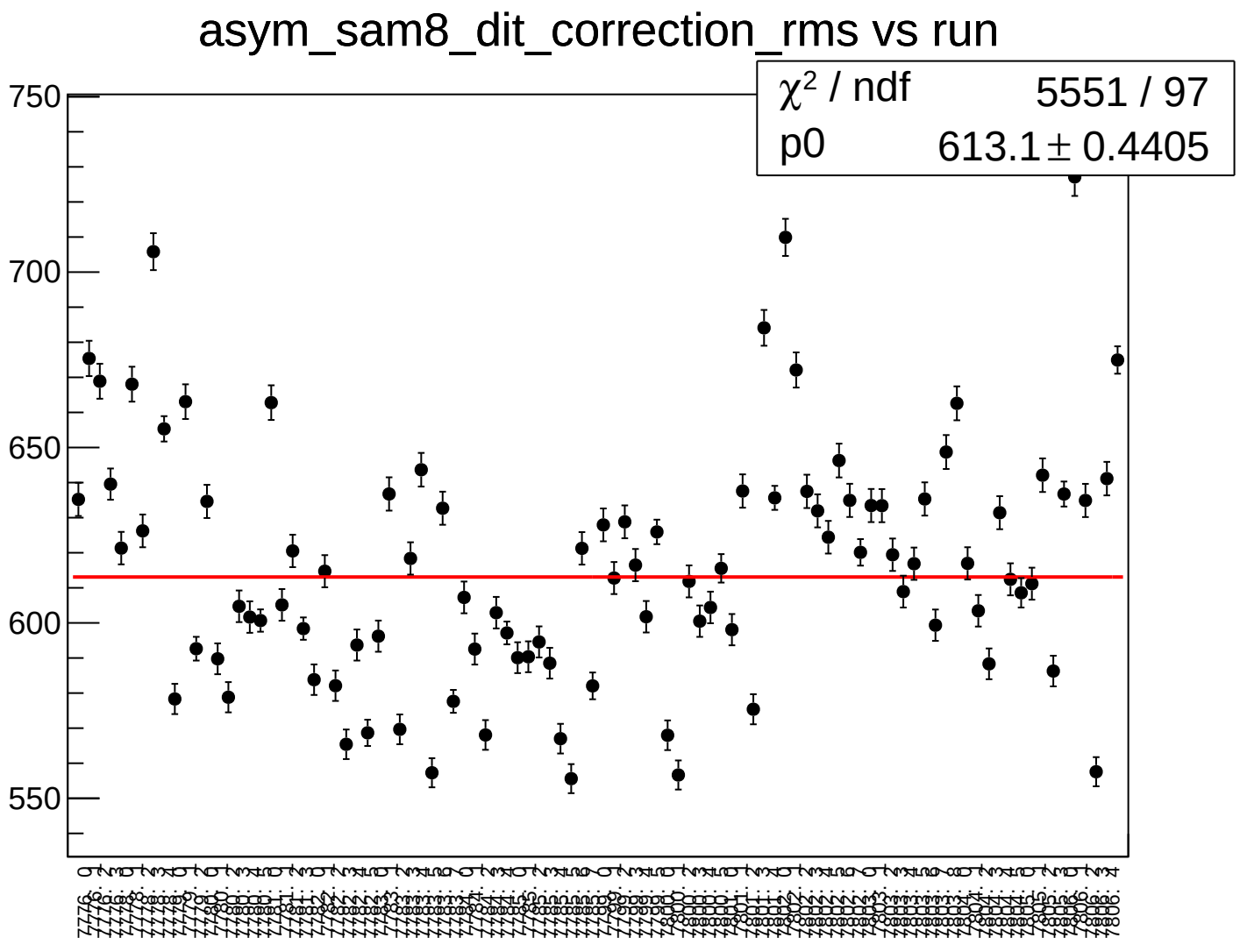

dit_asym_sam8_mean vs run
χ² / ndf 88.13 / 97
p0 −146.6 ± 83.43
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean 335.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

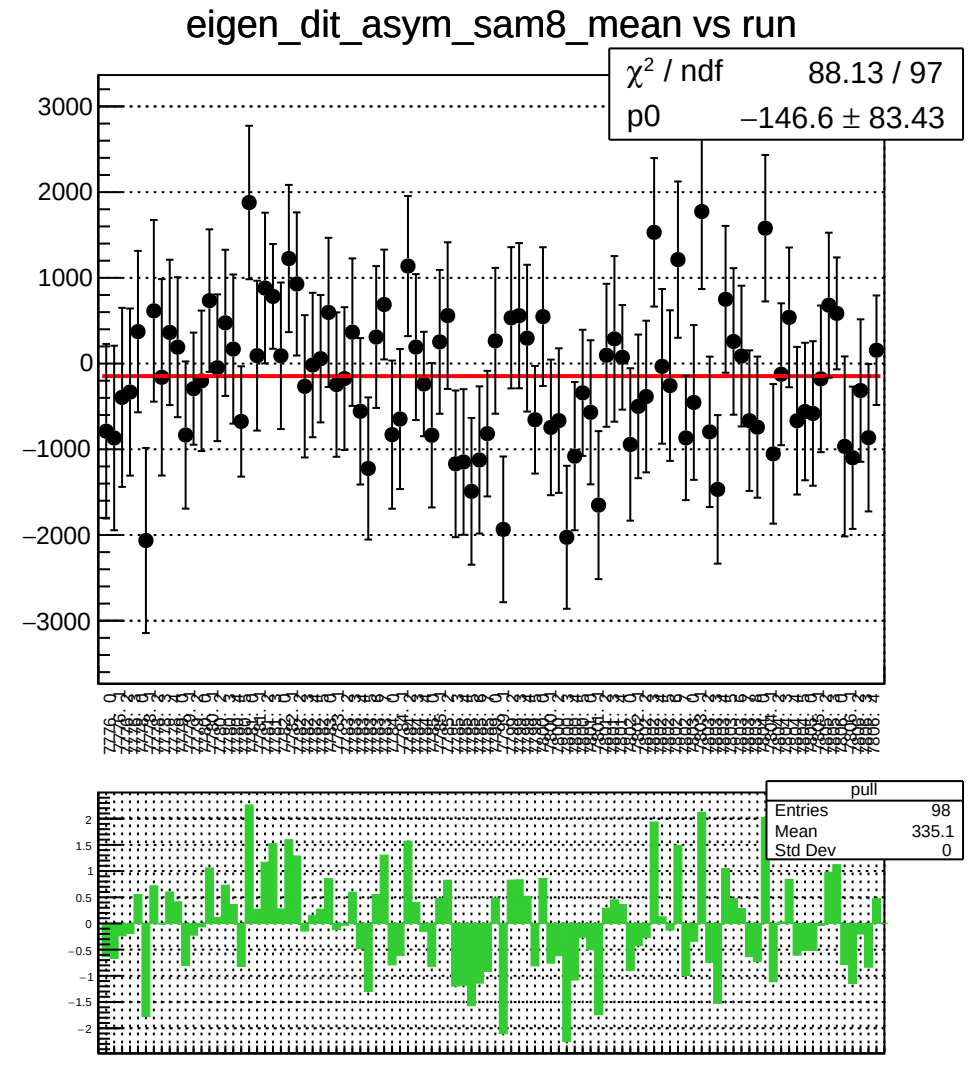

pull1D
Entries 98
Mean −0.009267
Std Dev 0.9483
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

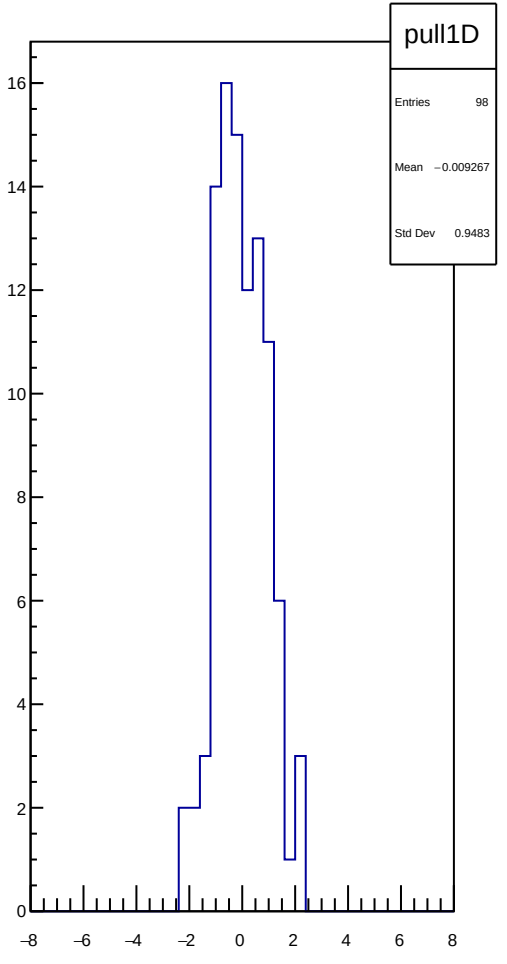

dit_asym_sam8_rms vs run
χ^2 / ndf 9370 / 97
p0 82.03 ± 0.05899
110
105
100
95
90
85
80
75

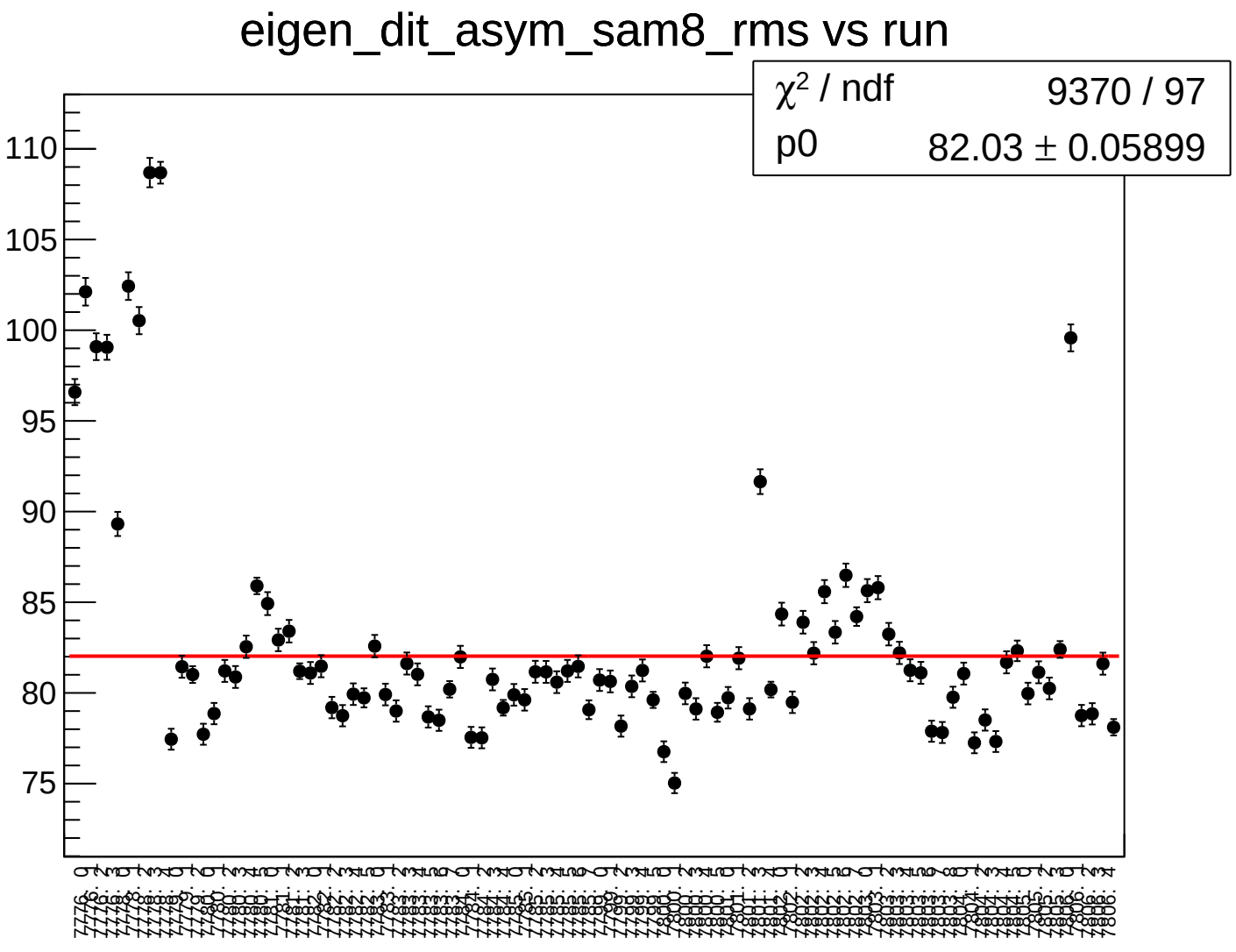

asym_sam8_dit_correction_mean vs run
χ² / ndf 71.58 / 97
p0 −253.2 ± 622.9
pull
Entries 98
Mean 5.514e+04
Std Dev 0

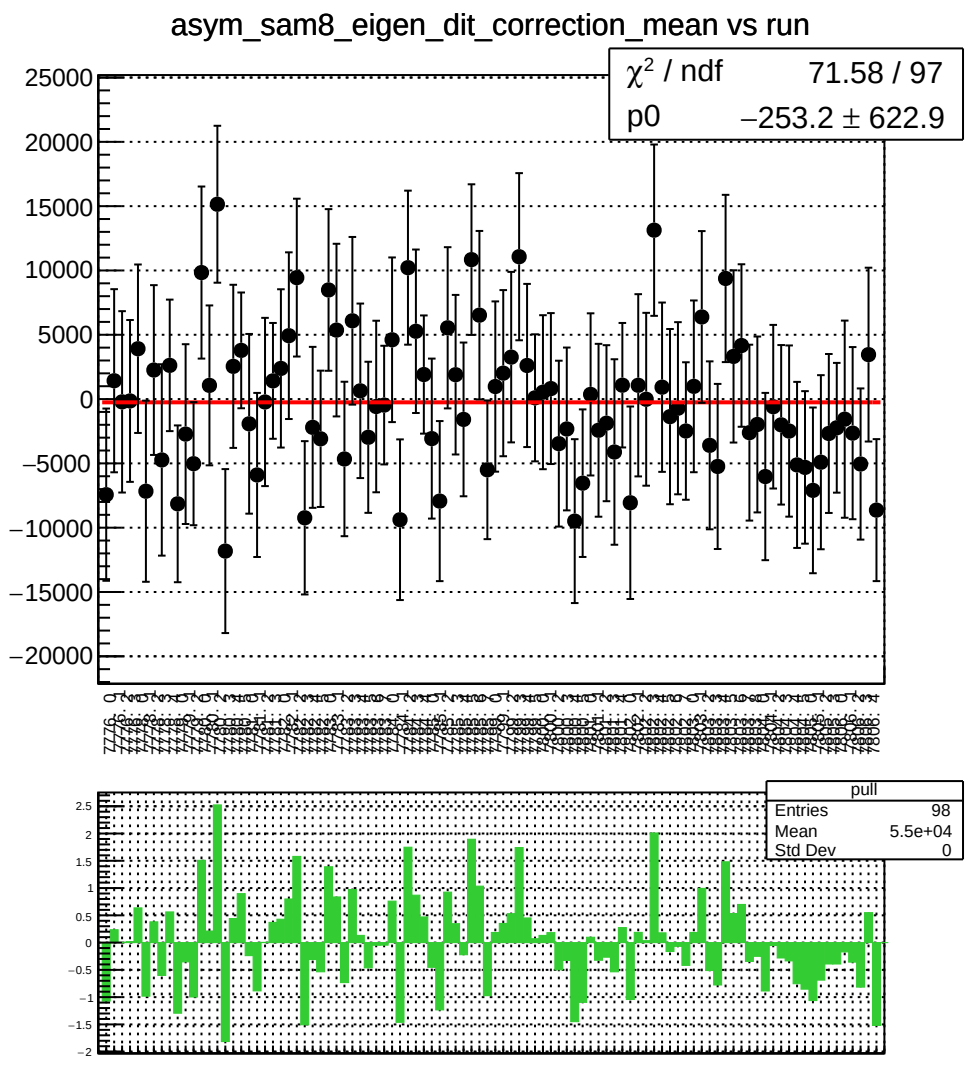

pull1D
Entries 98
Mean −6.326e−05
Std Dev 0.8547

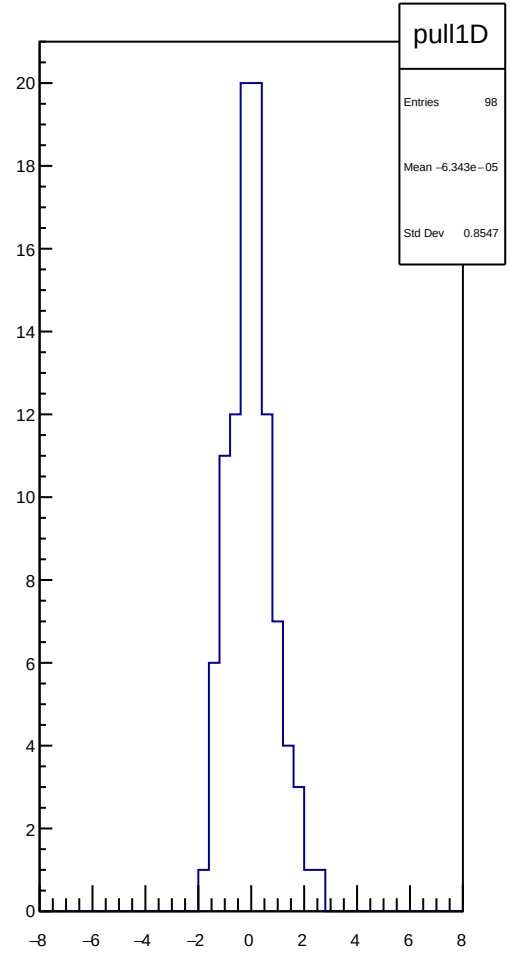

asym_sam8_dit_correction_rms vs run
χ² / ndf 5551 / 97
p0 613.1 ± 0.4405
750
700
650
600
550

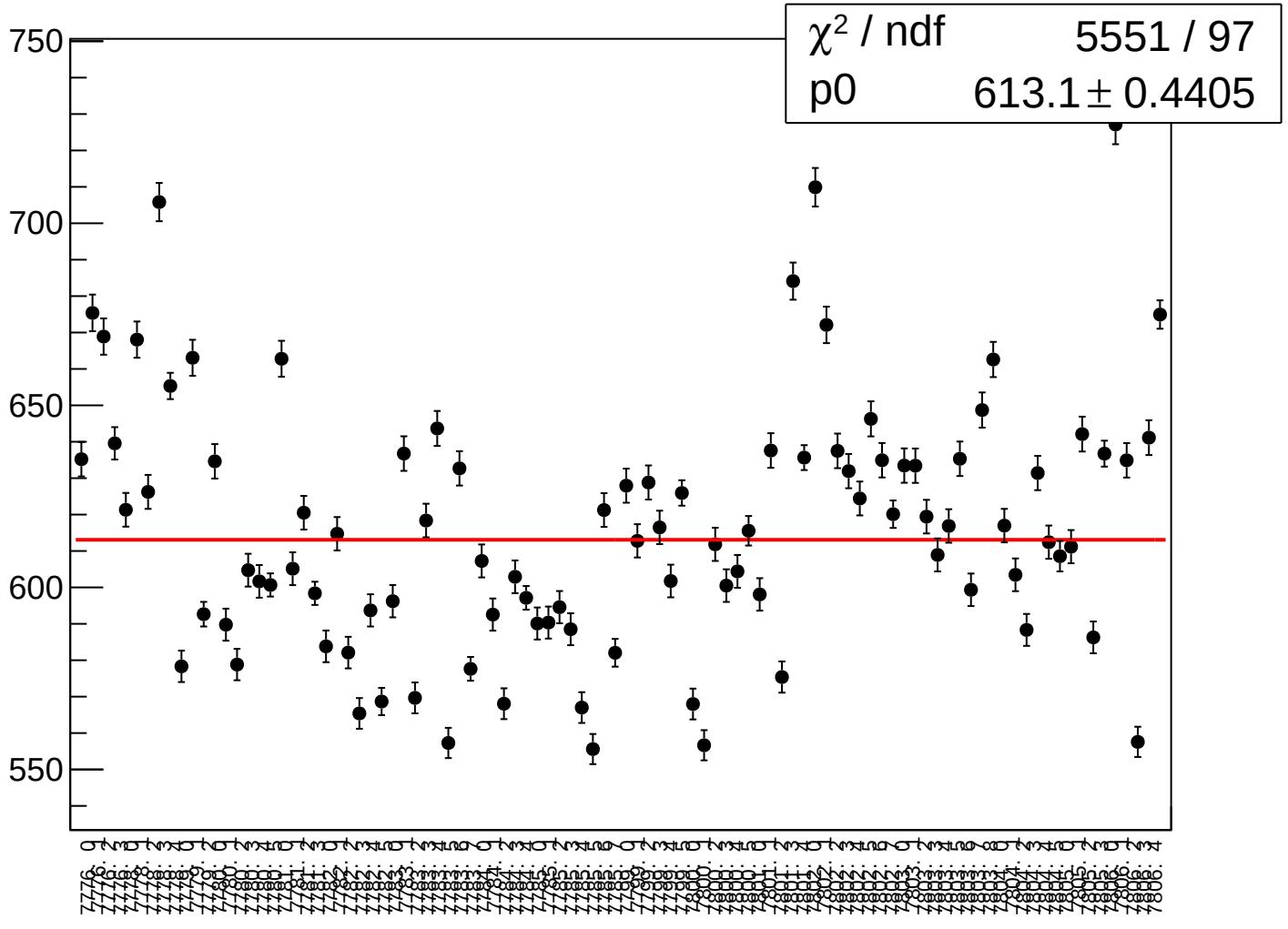

eigen_dit_asym_sam8_mean vs run
χ² / ndf 88.13 / 97
p0 −146.6 ± 83.43
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean 335.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

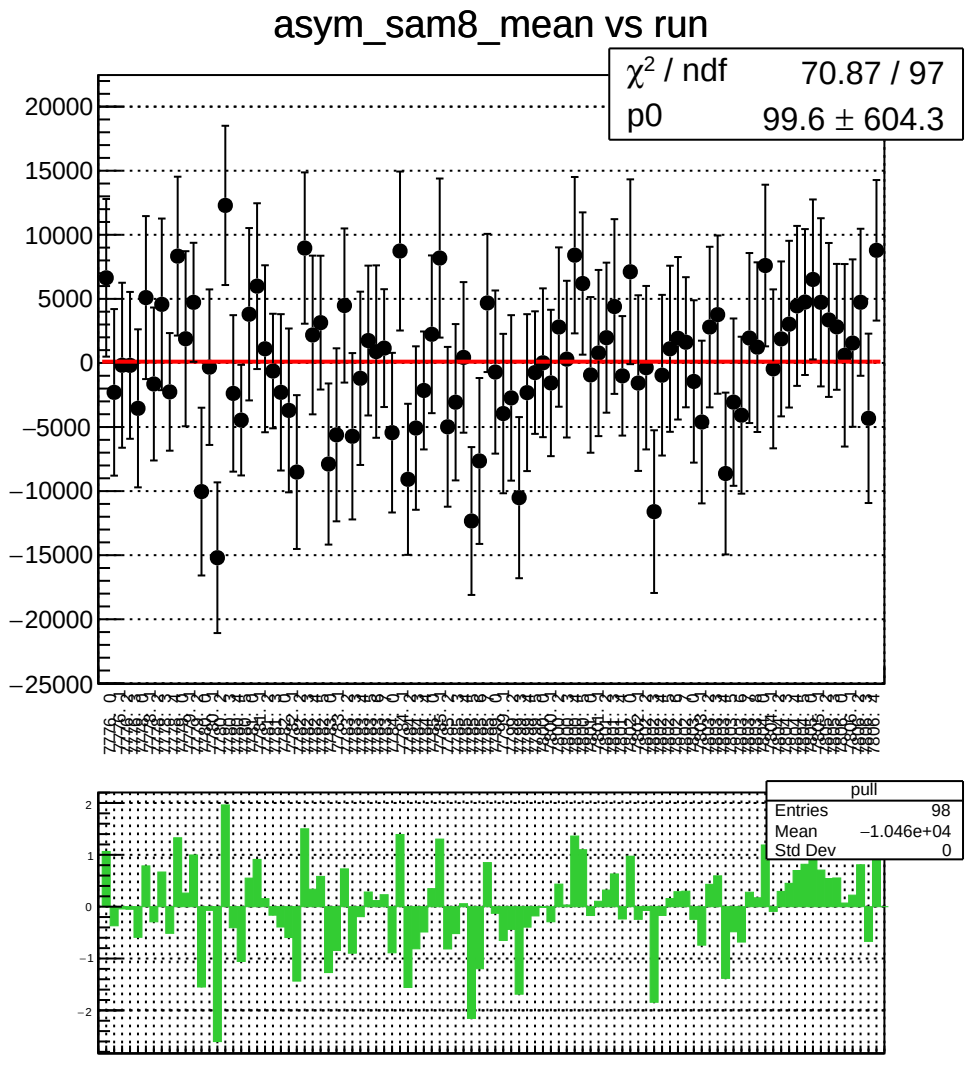

pull1D
Entries 98
Mean −0.009267
Std Dev 0.9483
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

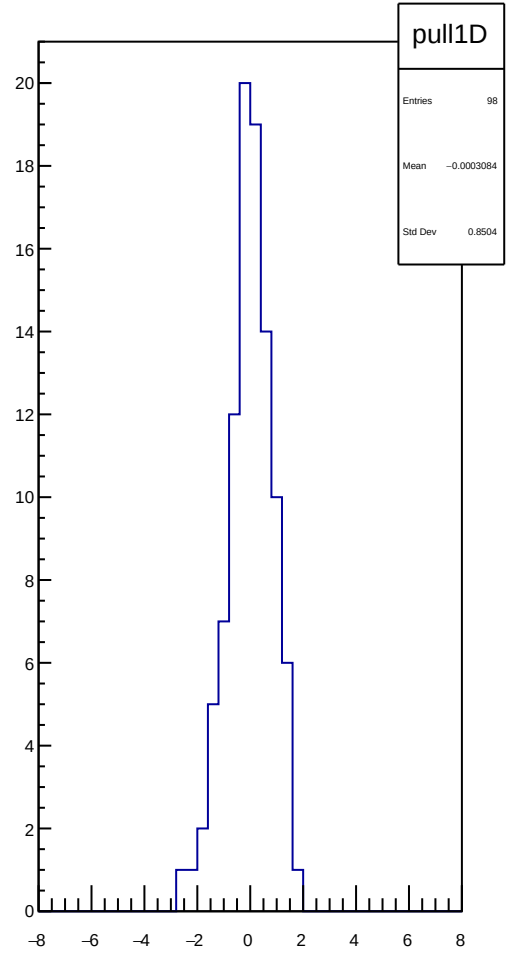

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 9370 / 97
p0 82.03 ± 0.05899
110
105
100
95
90
85
80
75

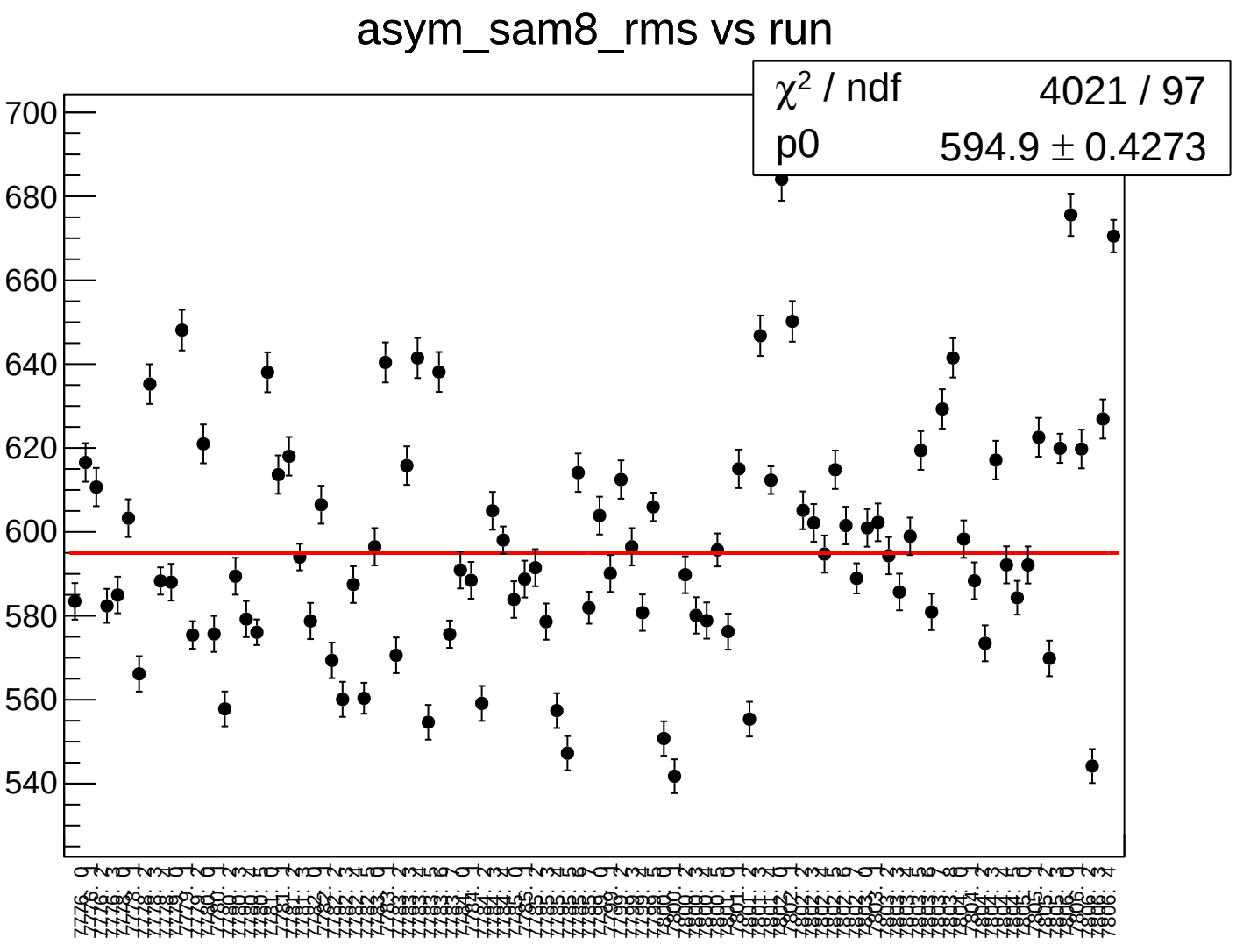

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 71.58 / 97
p0 −253.2 ± 622.9
pull
Entries 98
Mean 5.5e+04
Std Dev 0

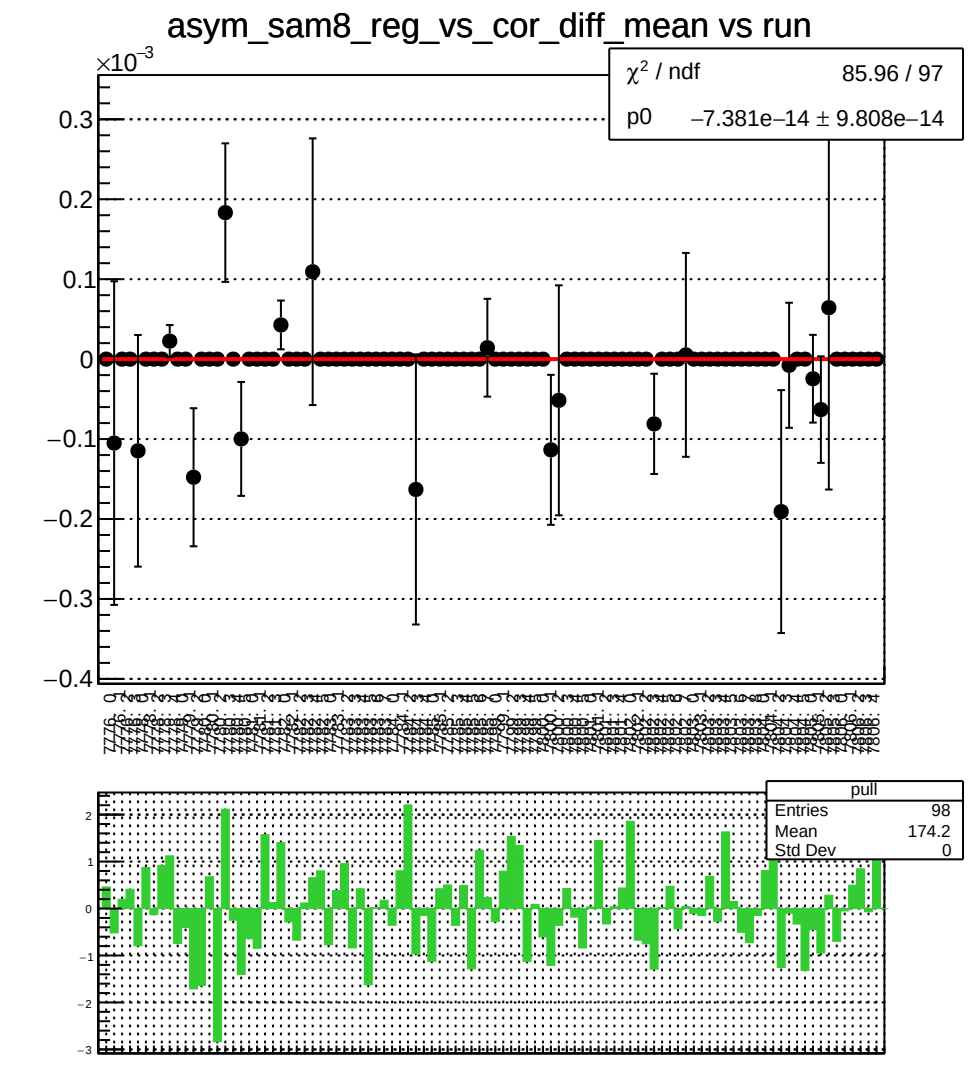

pull1D
Entries 98
Mean −6.343e−05
Std Dev 0.8547

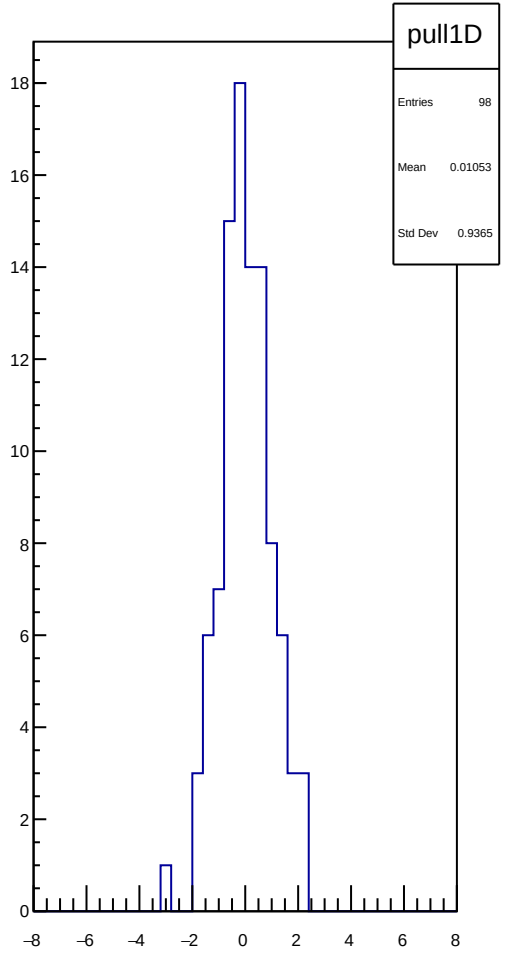

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 5551 / 97
p0 613.1 ± 0.4405
750
700
650
600
550

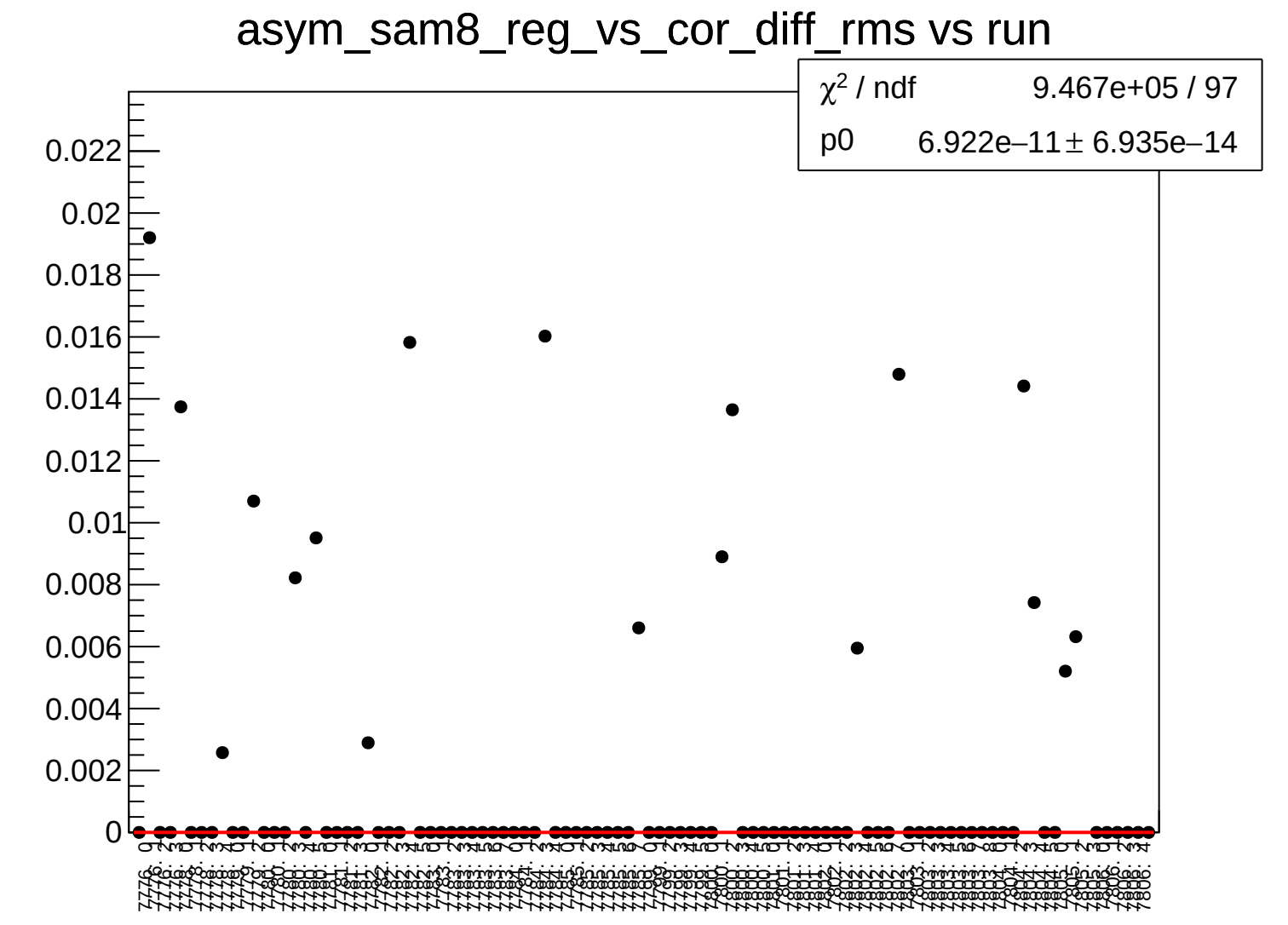

asym_sam8_mean vs run
χ² / ndf 70.87 / 97
p0 99.6 ± 604.3
pull
Entries 98
Mean −1.046e+04
Std Dev 0

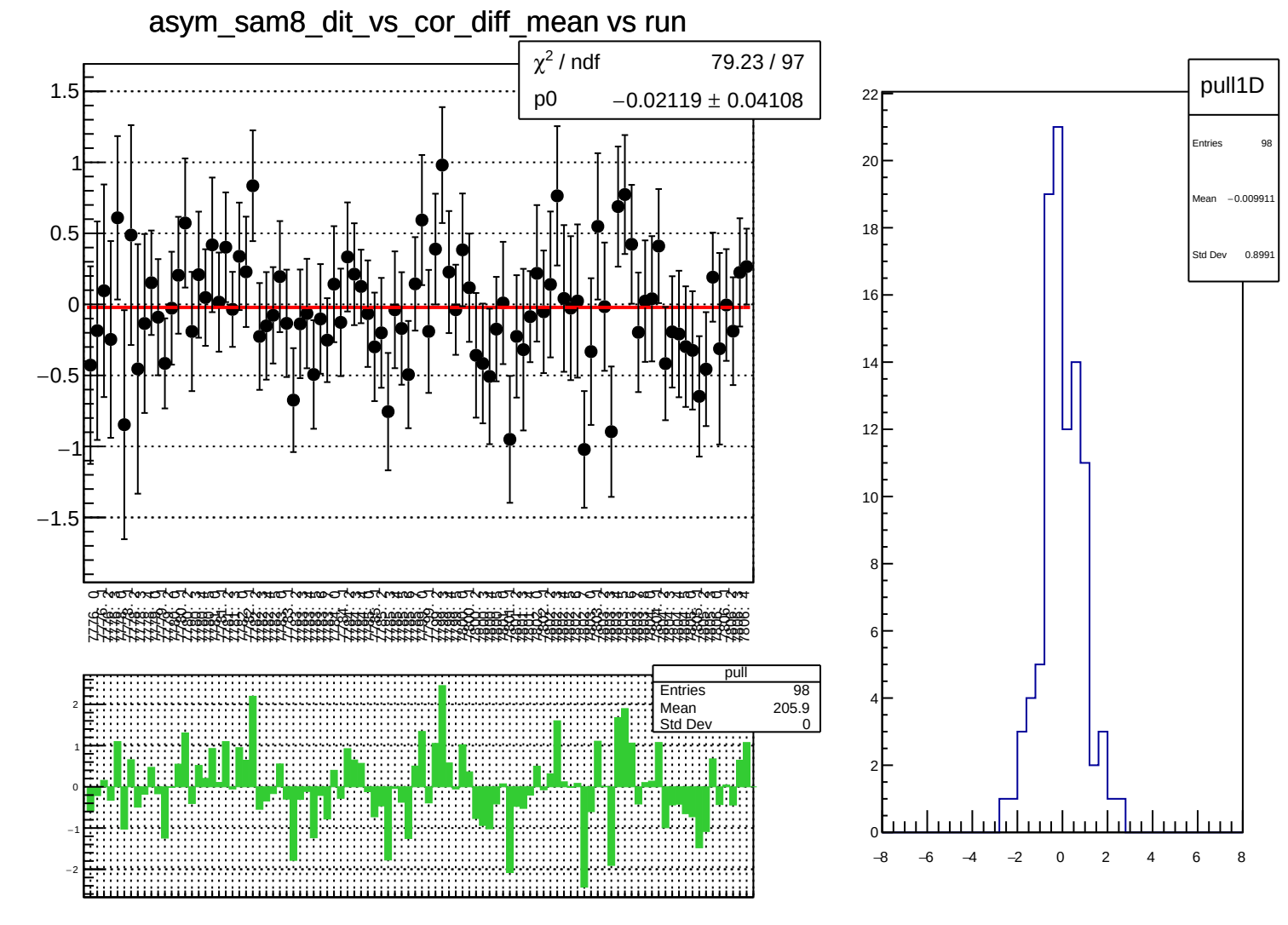

pull1D
Entries 98
Mean −0.0003084
Std Dev 0.8504

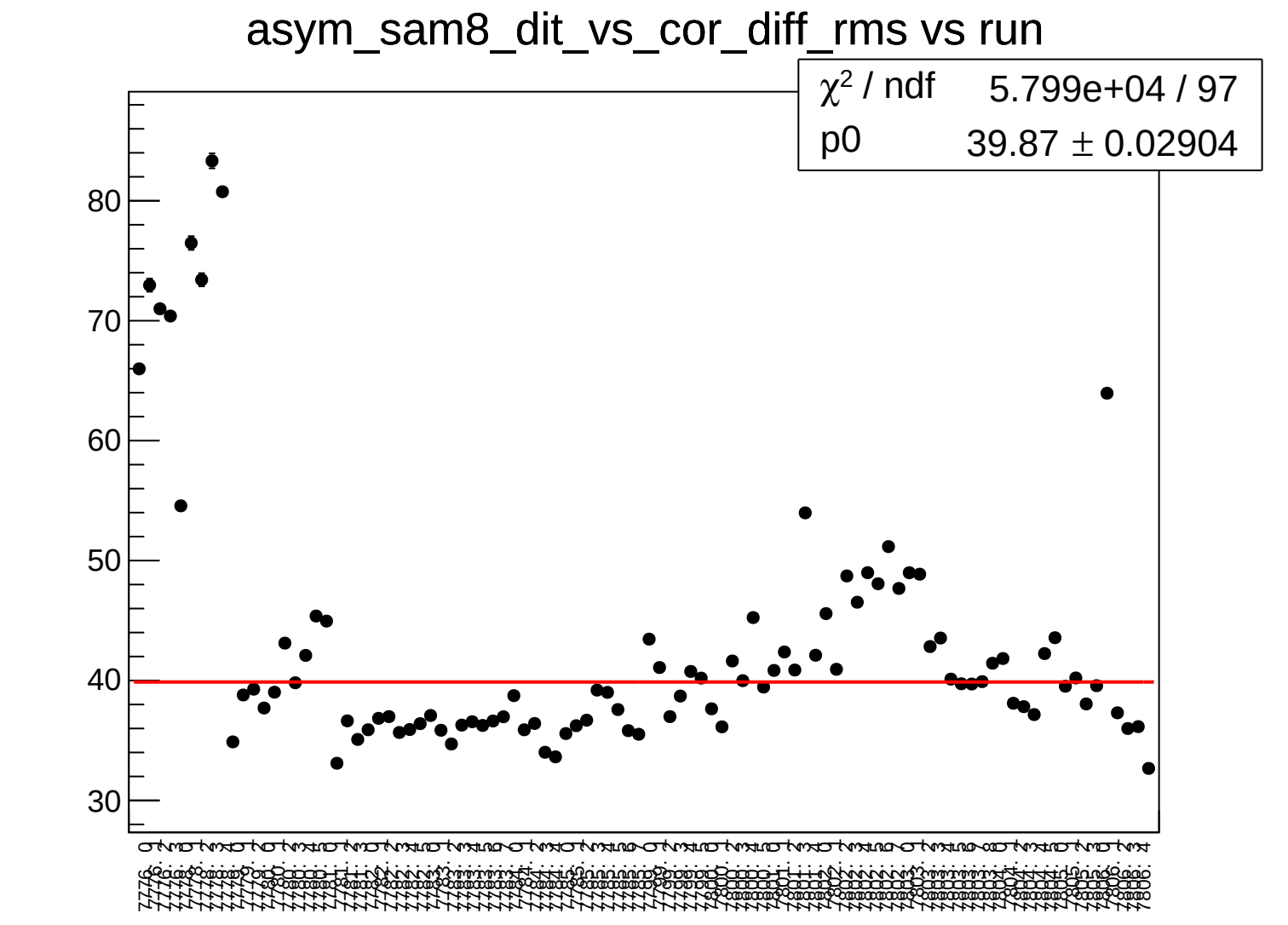

asym_sam8_rms vs run
χ² / ndf 4021 / 97
p0 594.9 ± 0.4273
700
680
660
640
620
600
580
560
540

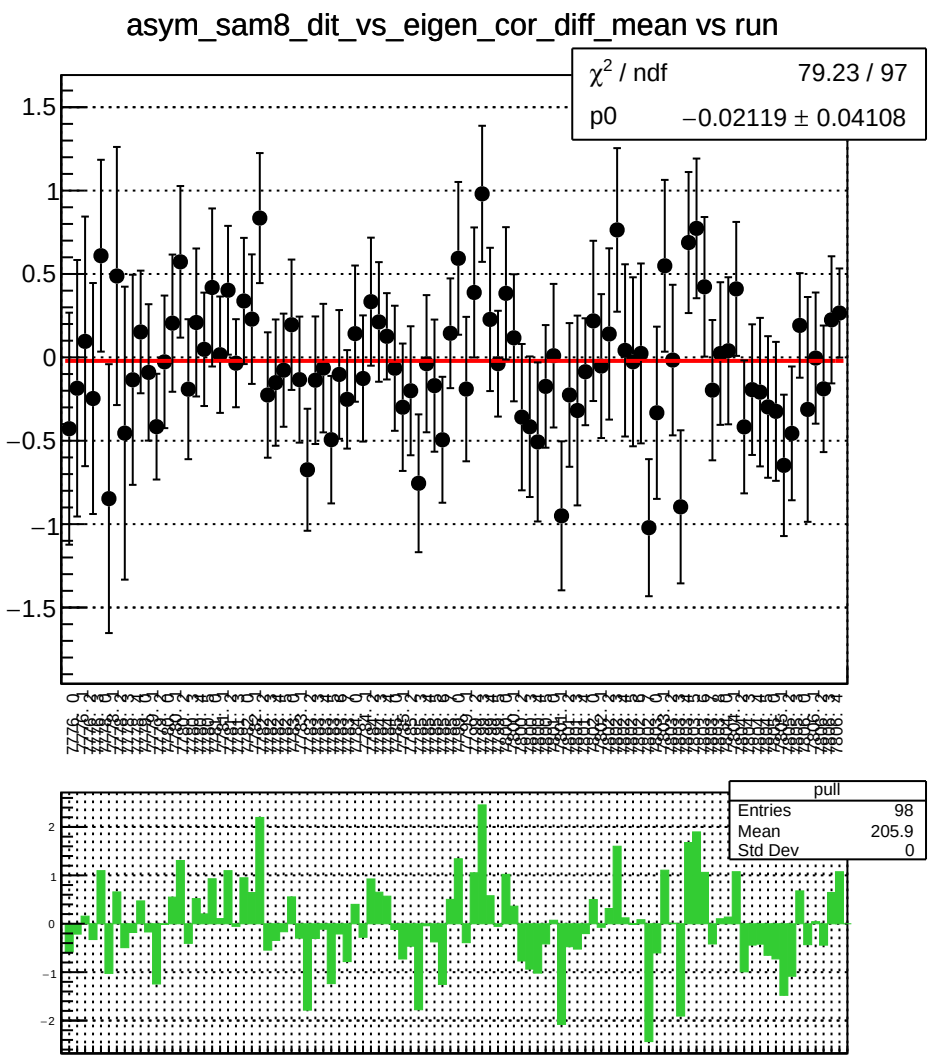

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 85.96 / 97
p0 −7.381e−14 ± 9.808e−14
pull
Entries 98
Mean 174.2
Std Dev 0

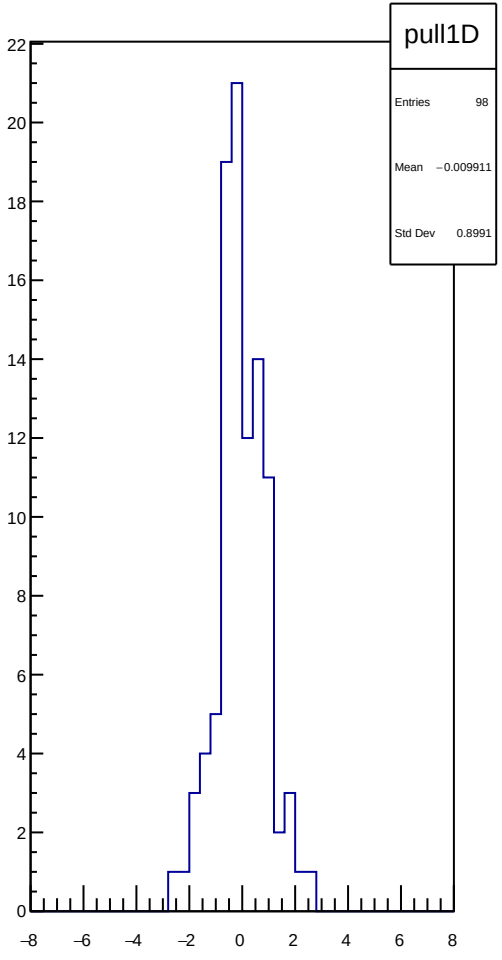

pull1D
Entries 98
Mean 0.01053
Std Dev 0.9365

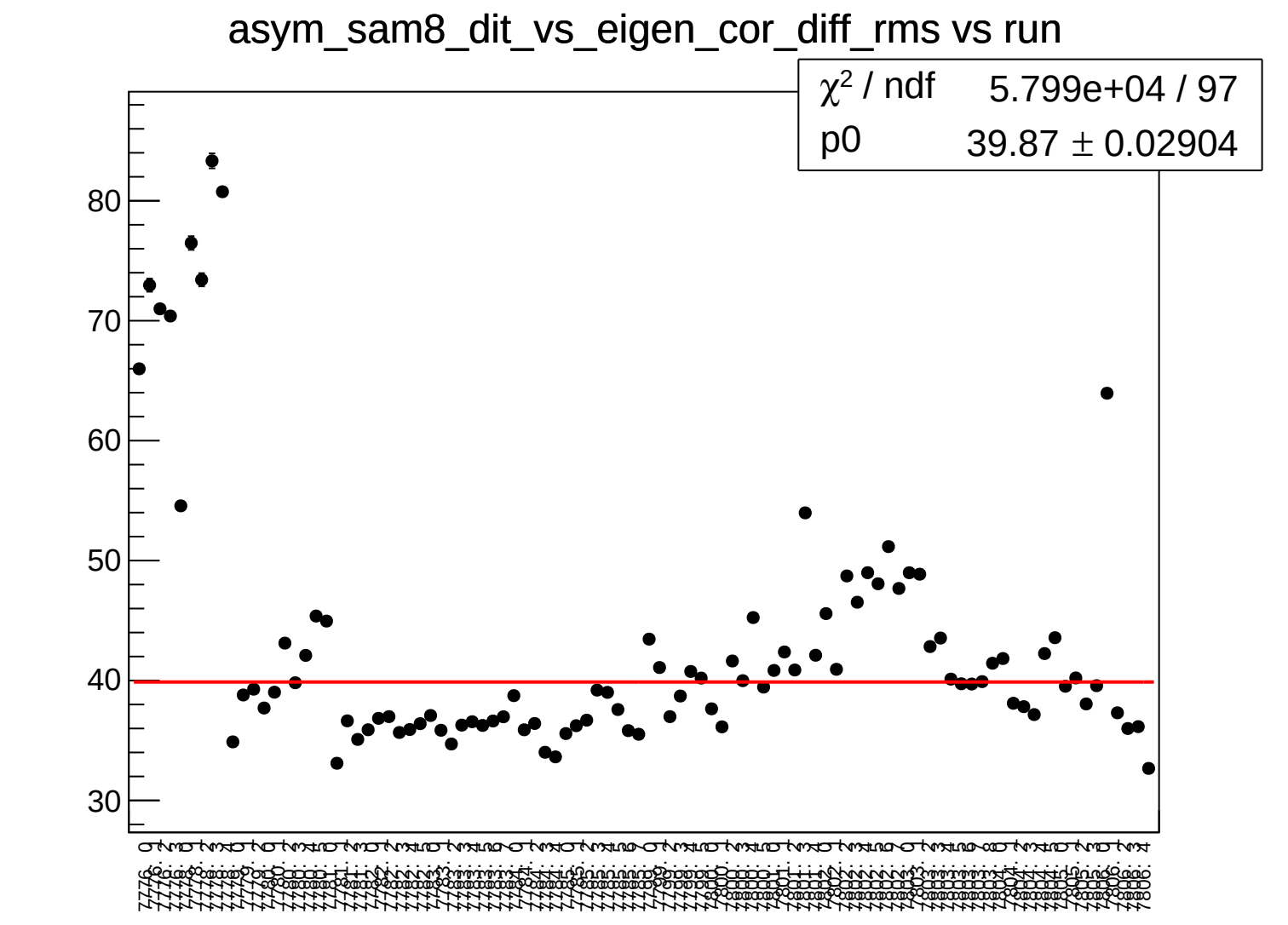

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 9.467e+05 / 97
p0 6.922e−11 ± 6.935e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

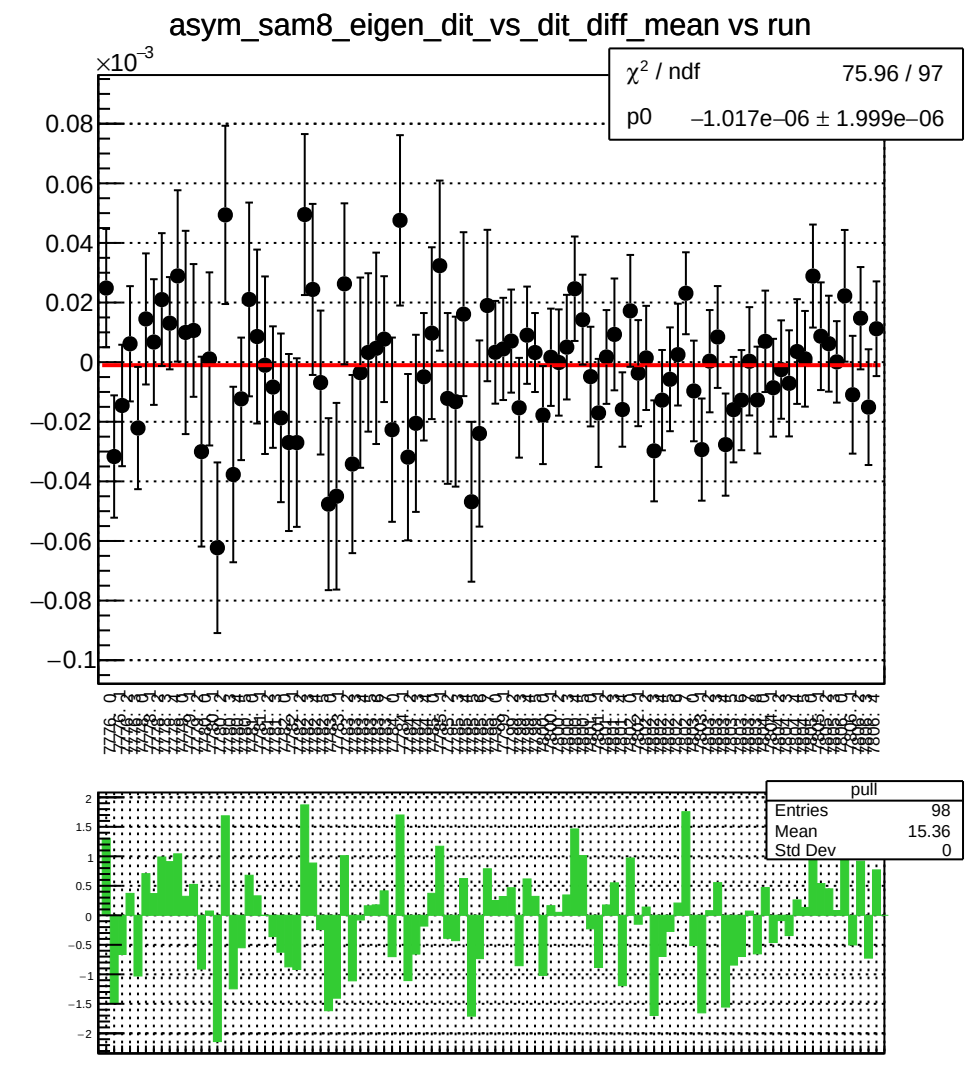

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 79.23 / 97
p0 −0.02119 ± 0.04108
pull
Entries 98
Mean 205.9
Std Dev 0
pull1D
Entries 98
Mean −0.009911
Std Dev 0.8991

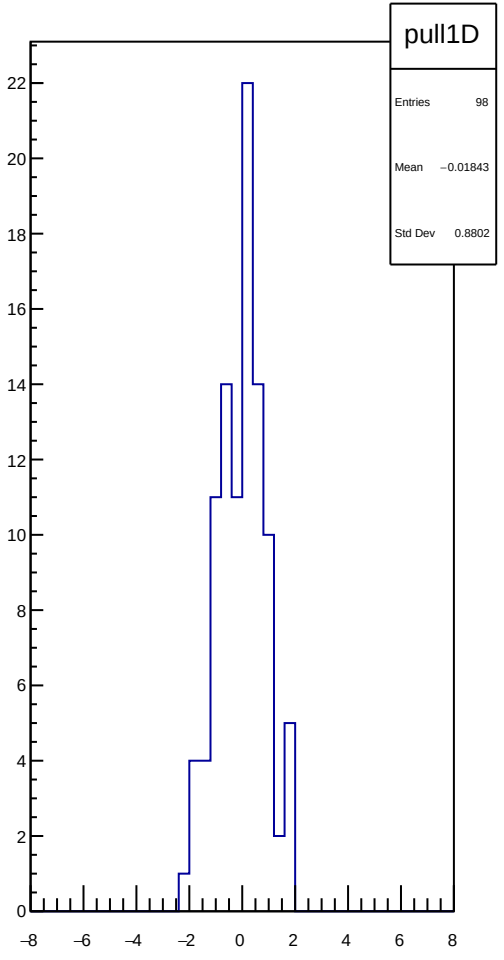

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 5.799e+04 / 97
p0 39.87 ± 0.02904
80
70
60
50
40
30

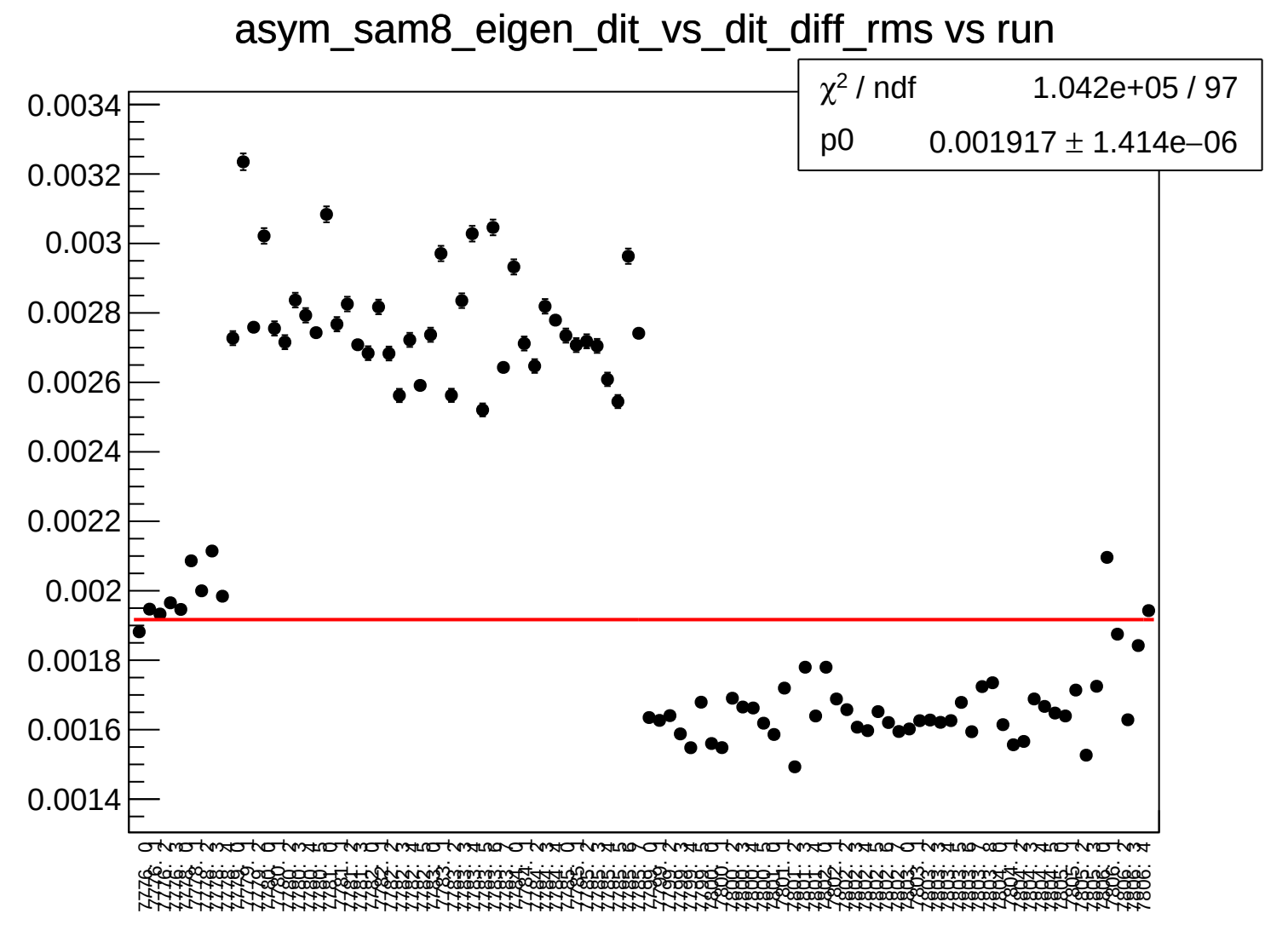

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.23 / 97
p0 −0.02119 ± 0.04108
pull
Entries 98
Mean 205.9
Std Dev 0

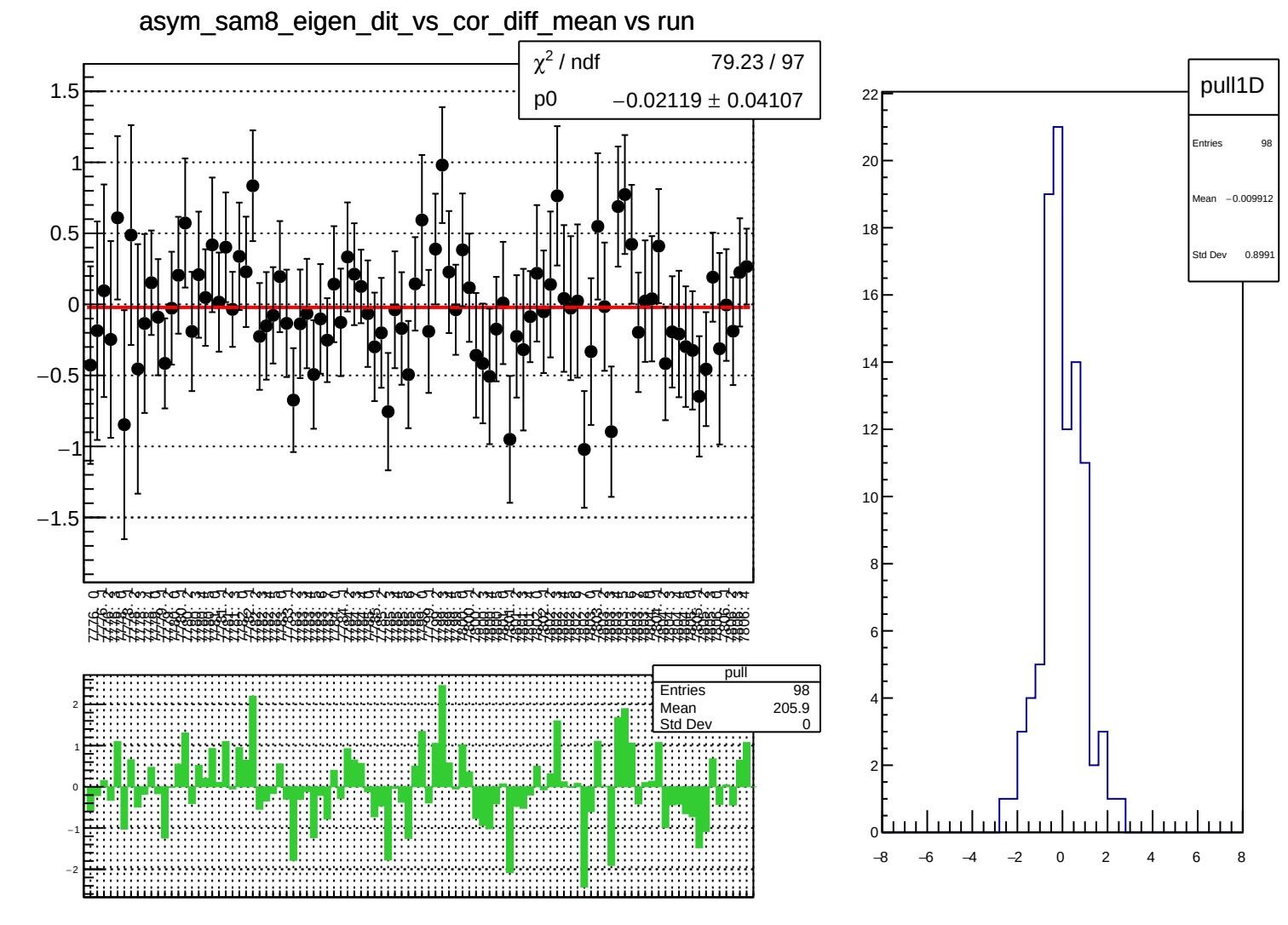

pull1D
Entries 98
Mean −0.009911
Std Dev 0.8991

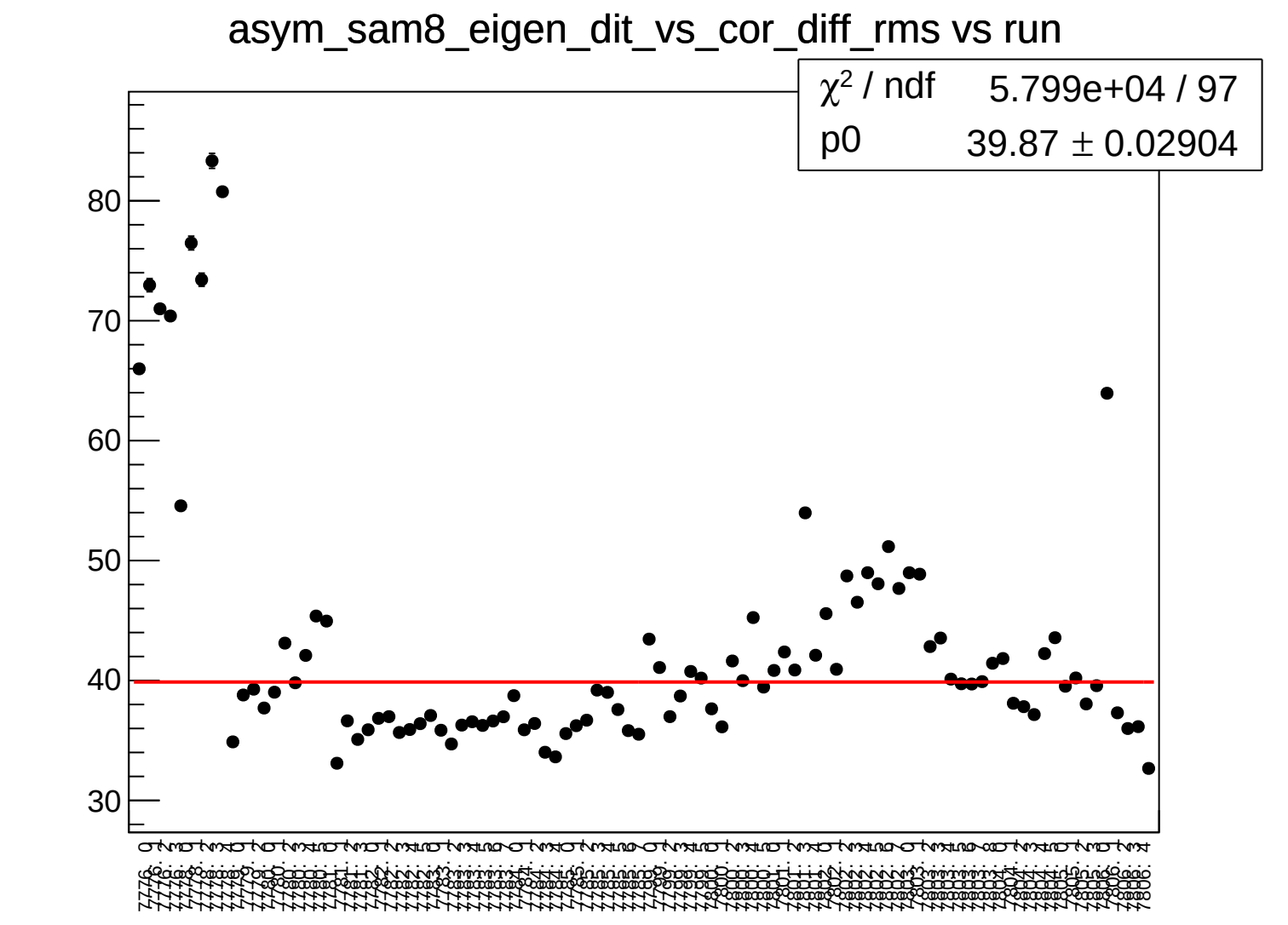

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.799e+04 / 97
p0 39.87 ± 0.02904
80
70
60
50
40
30

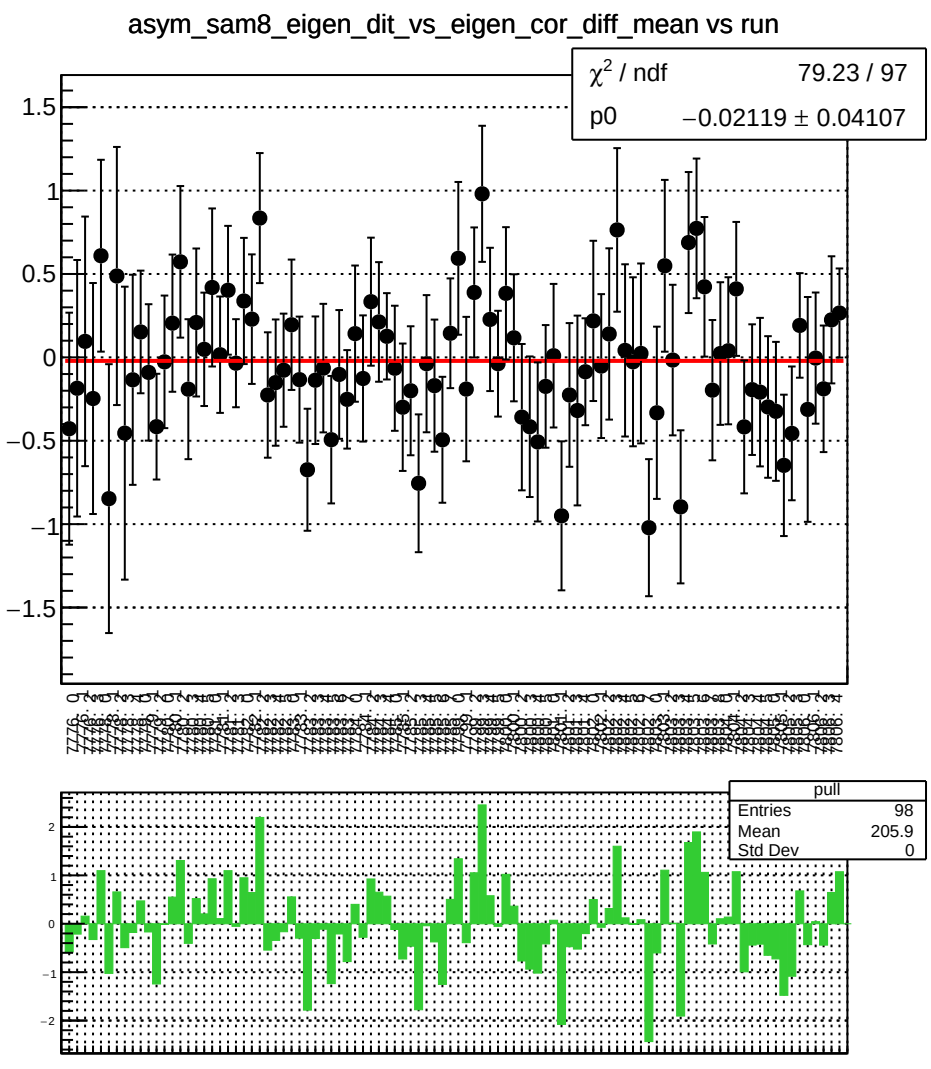

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.96 / 97
p0 −1.017e−06 ± 1.999e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 98
Mean 15.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

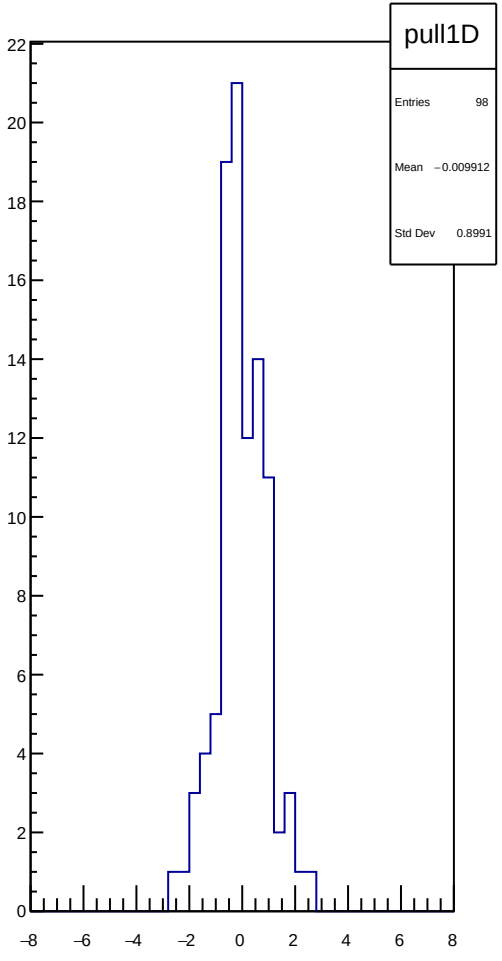

pull1D
Entries 98
Mean −0.01843
Std Dev 0.8802
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

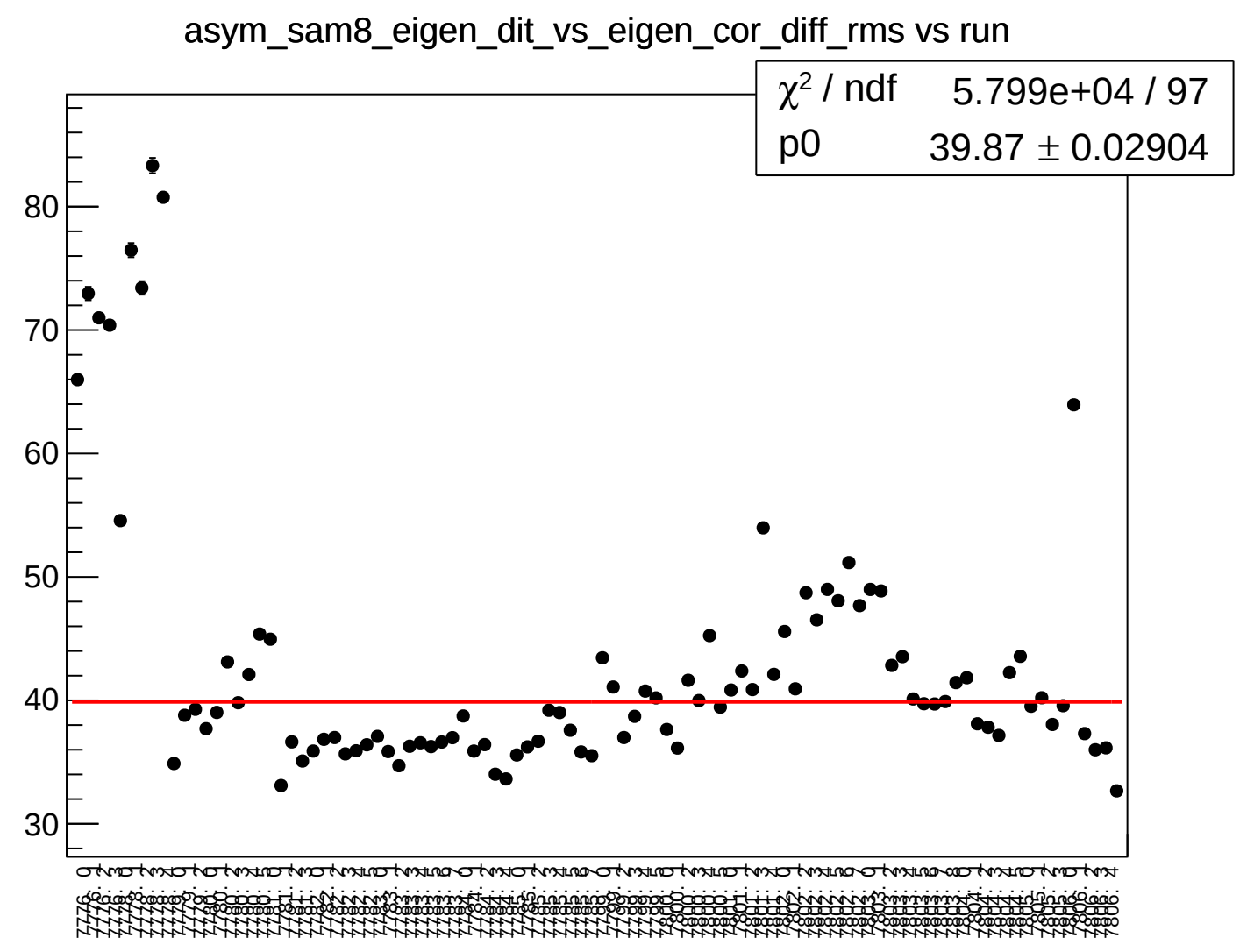

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.042e+05 / 97
p0 0.001917 ± 1.414e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

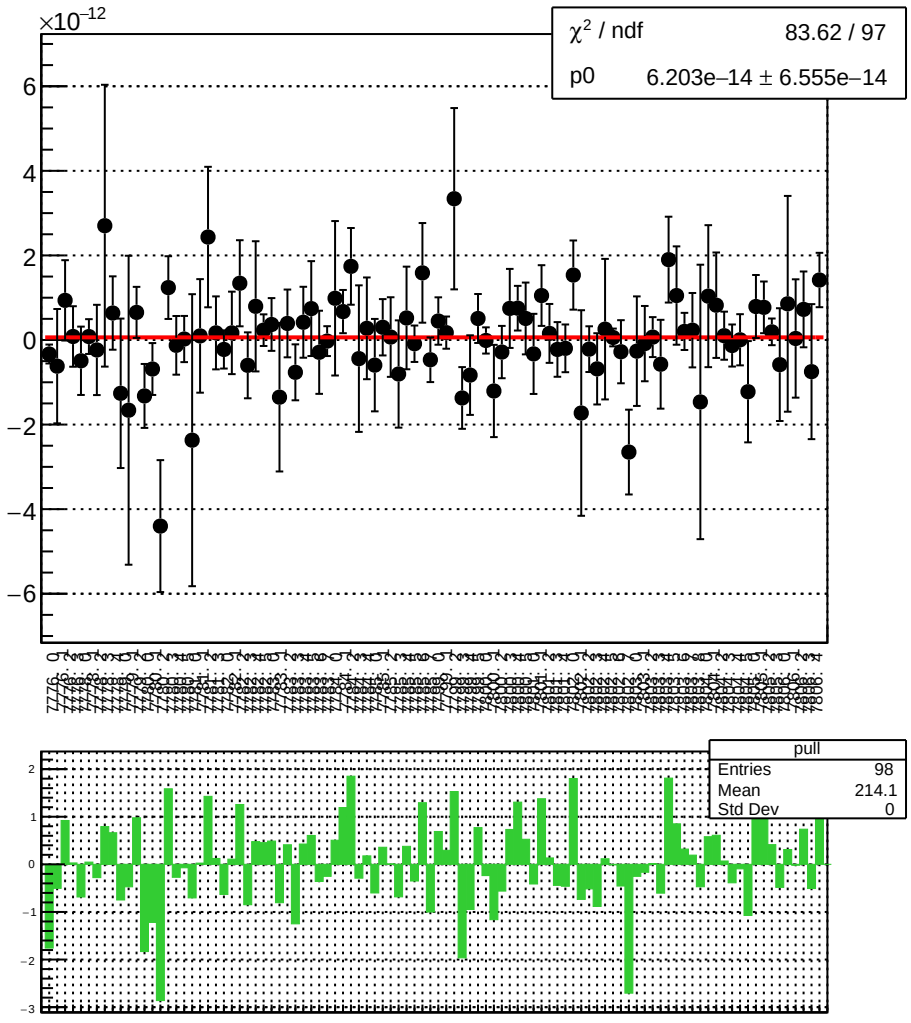

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.23 / 97
p0 −0.02119 ± 0.04107
pull
Entries 98
Mean 205.9
Std Dev 0
pull1D
Entries 98
Mean −0.009912
Std Dev 0.8991

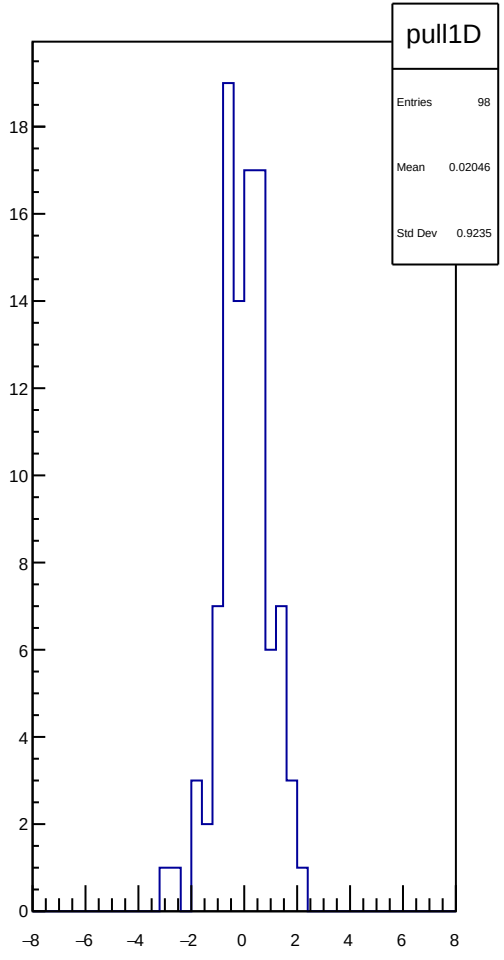

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.799e+04 / 97
p0 39.87 ± 0.02904
80
70
60
50
40
30

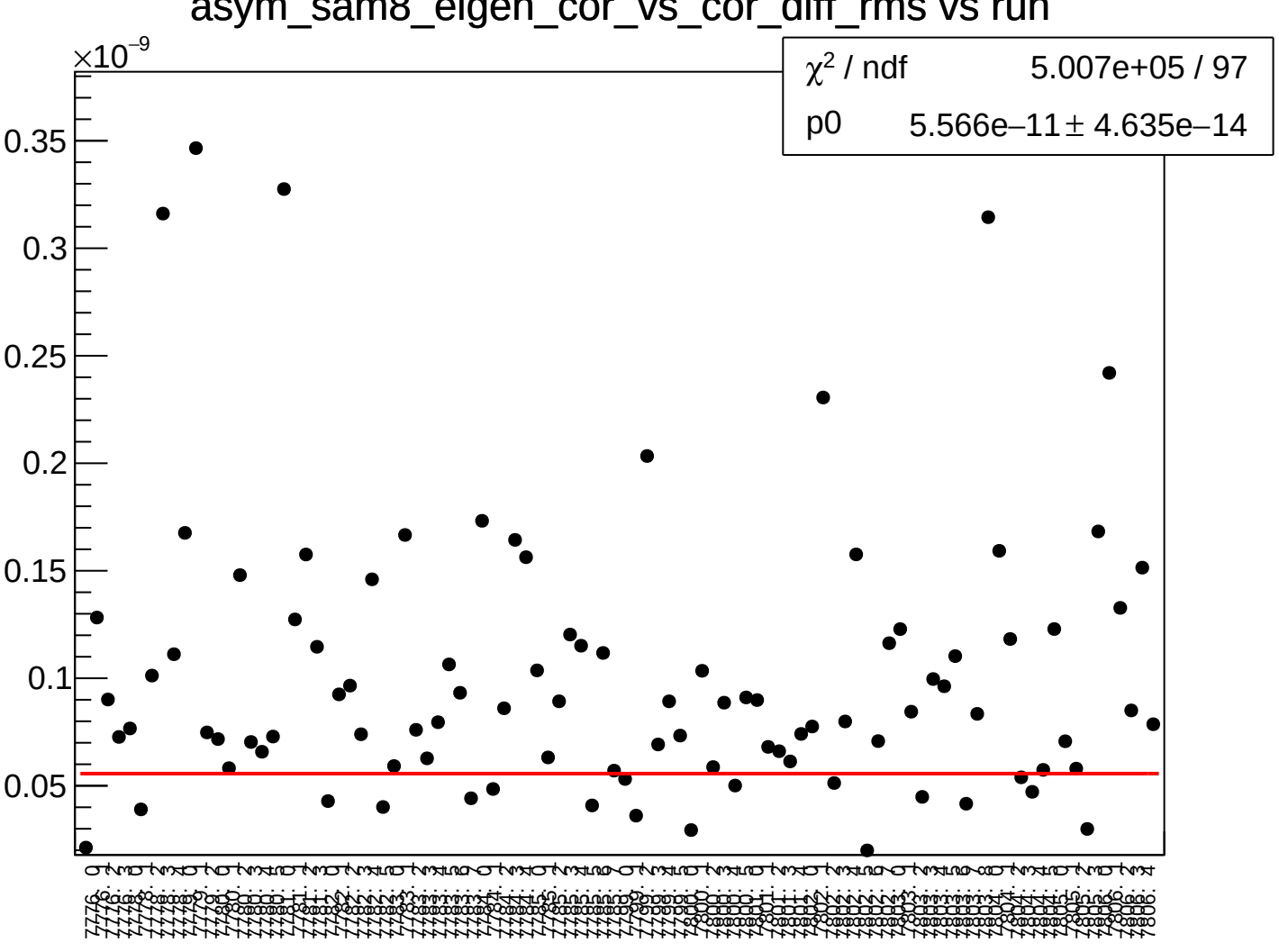

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.23 / 97
p0 −0.02119 ± 0.04107
pull
Entries 98
Mean 205.9
Std Dev 0

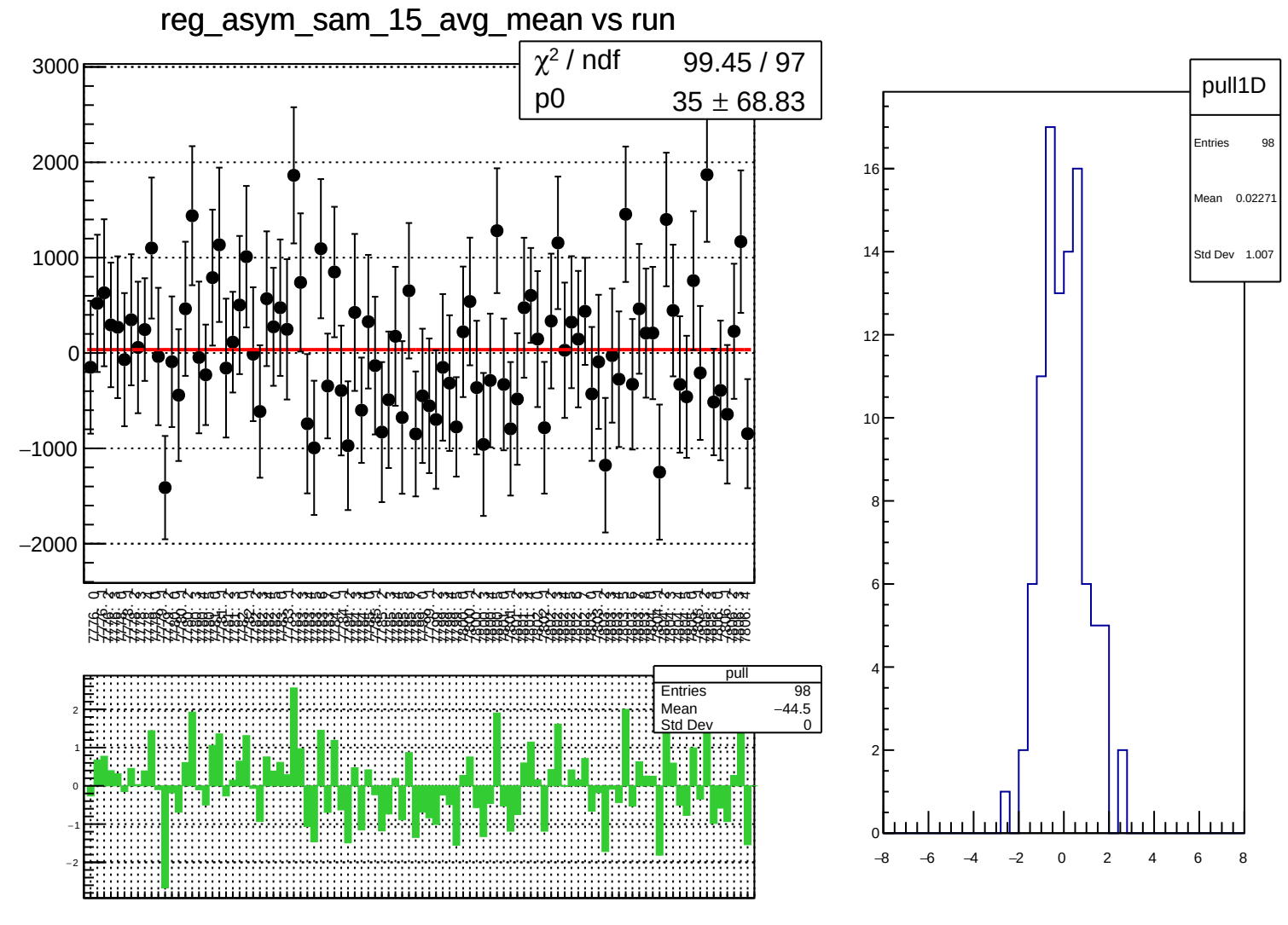

pull1D
Entries 98
Mean −0.009912
Std Dev 0.8991

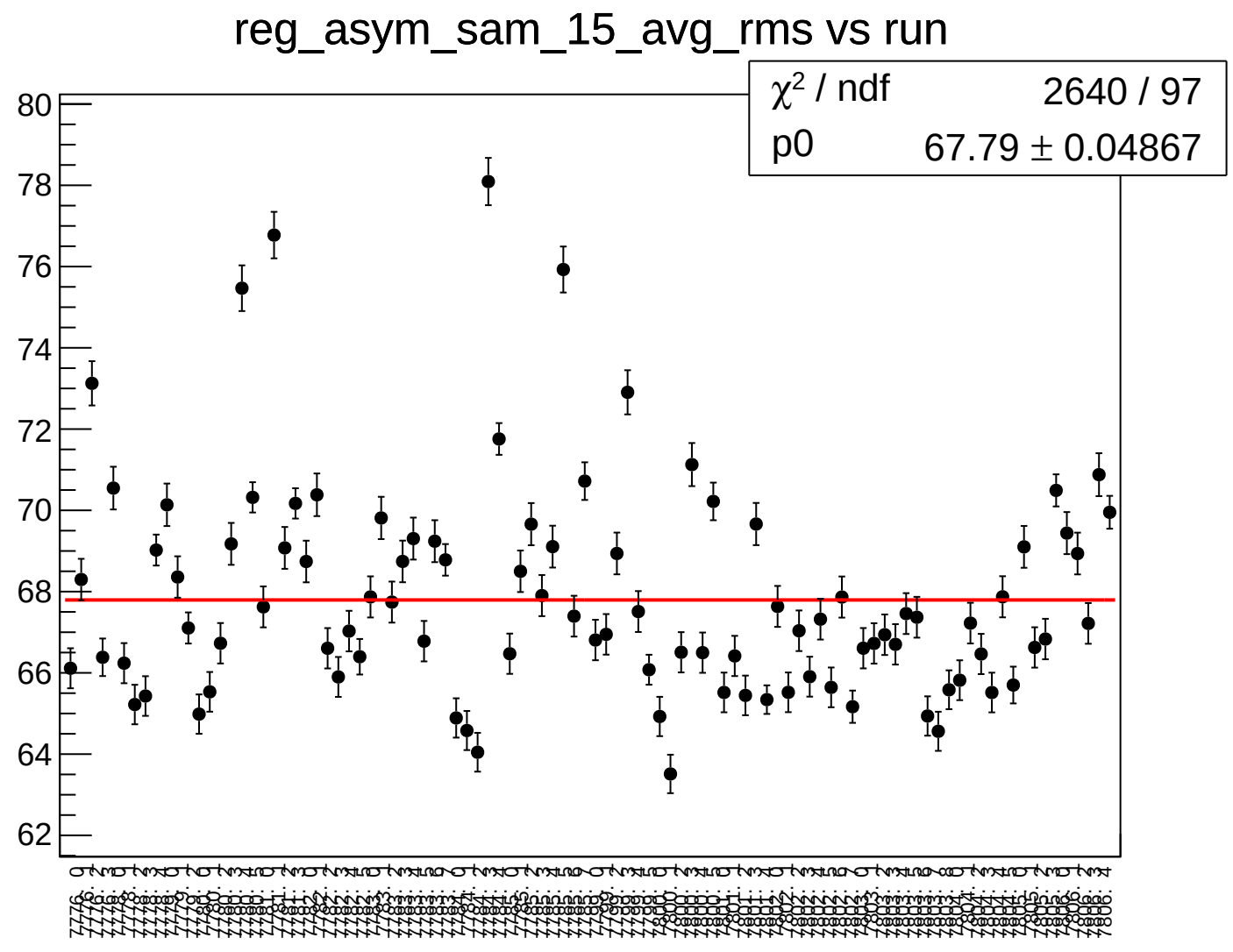

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.799e+04 / 97
p0 39.87 ± 0.02904
80
70
60
50
40
30

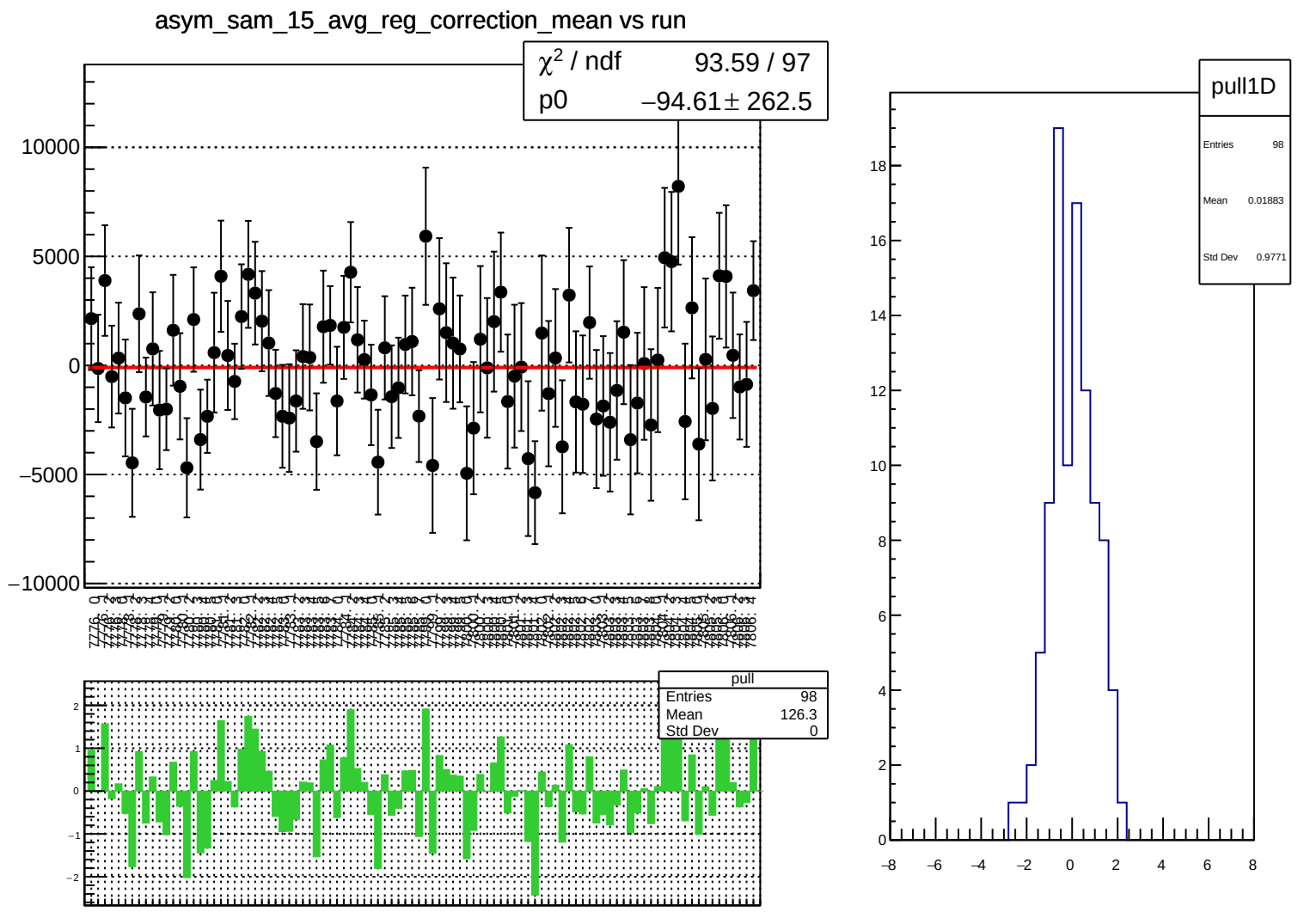

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 83.62 / 97
p0 6.203e−14 ± 6.555e−14
pull
Entries 98
Mean 214.1
Std Dev 0

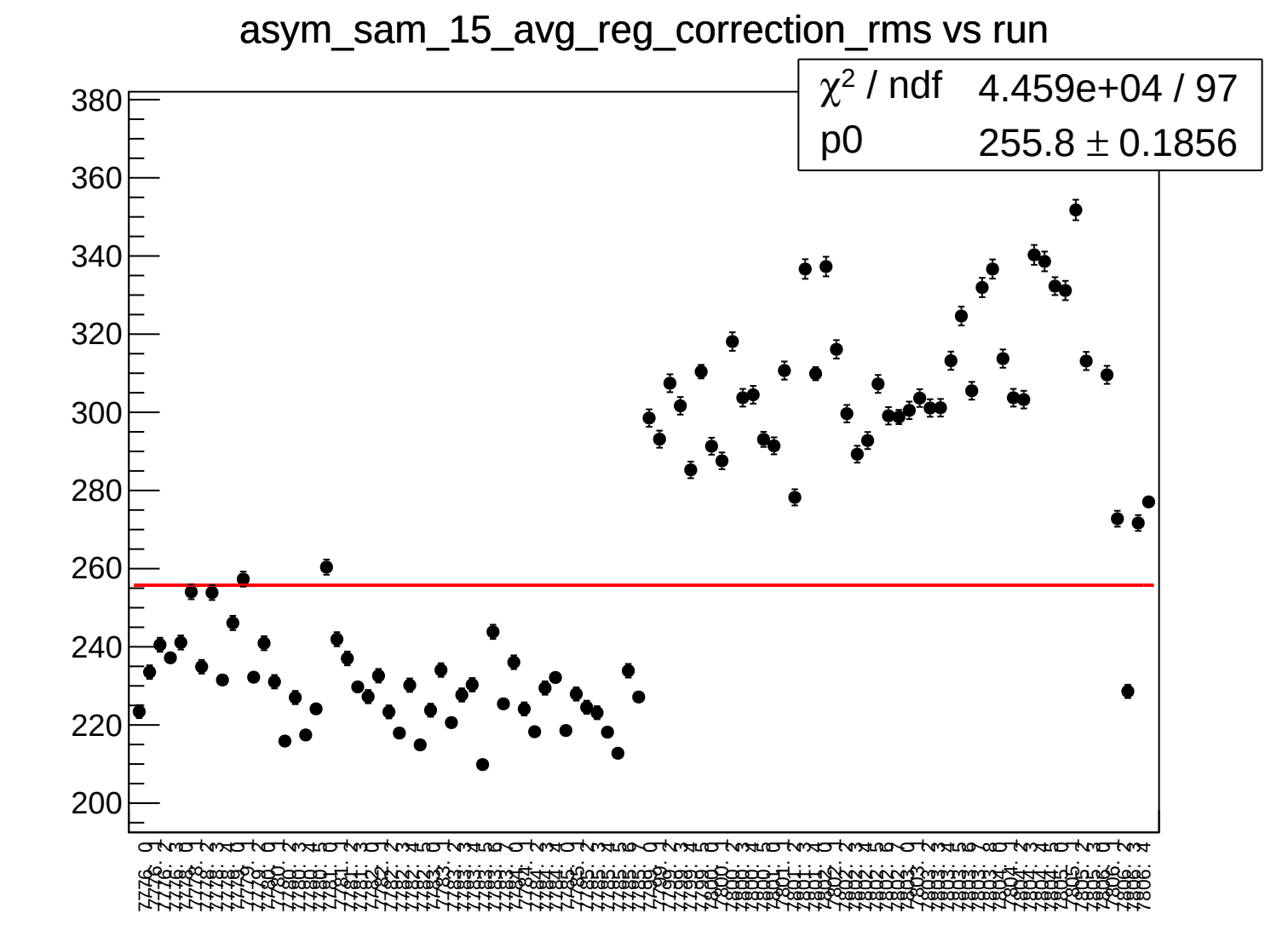

pull1D
Entries 98
Mean 0.02046
Std Dev 0.9235

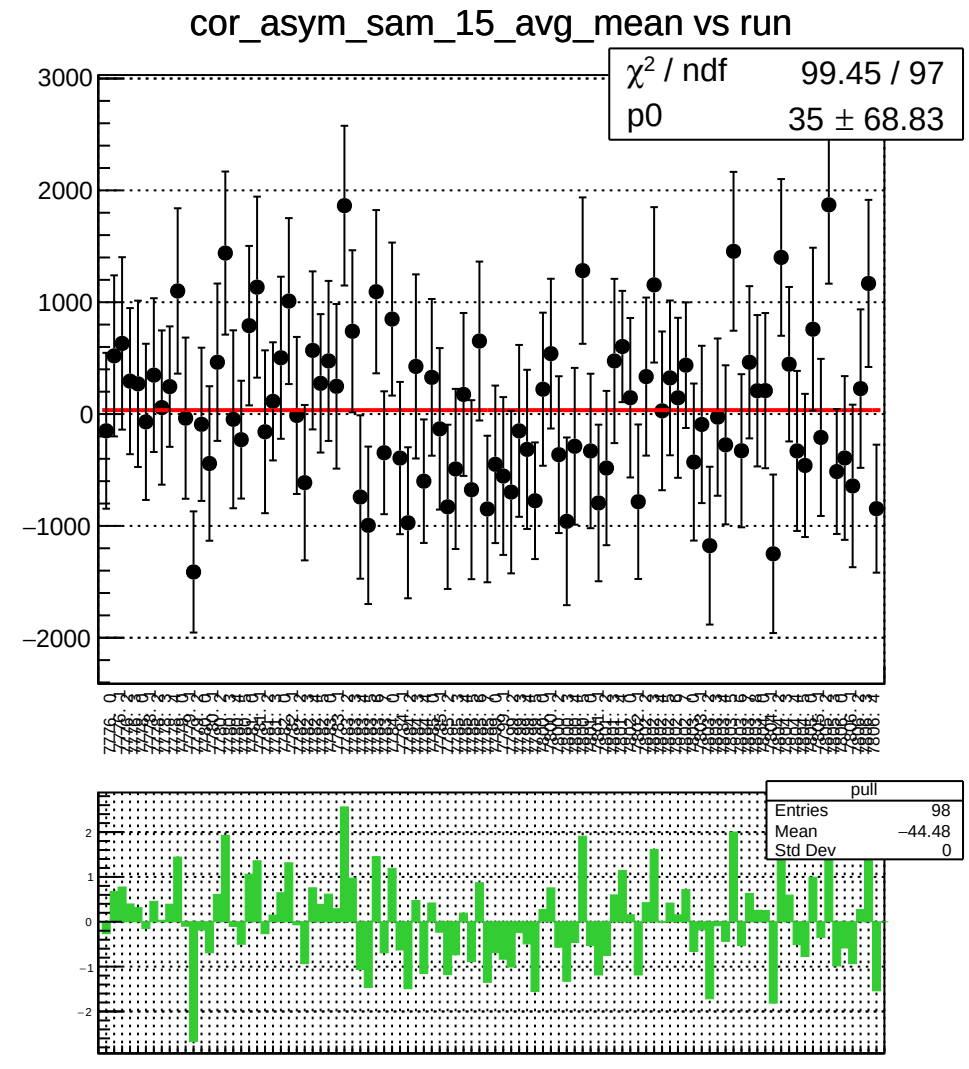

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.007e+05 / 97
p0 5.566e−11 ± 4.635e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

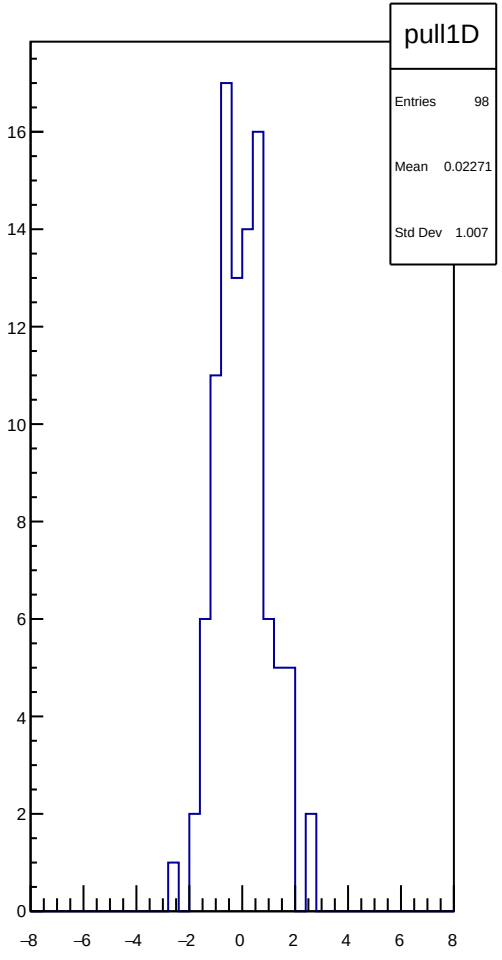

reg_asym_sam_15_avg_mean vs run
χ² / ndf 99.45 / 97
p0 35 ± 68.83
3000
2000
1000
0
−1000
−2000
pull
Entries 98
Mean −44.5
Std Dev 0
pull1D
Entries 98
Mean 0.02271
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

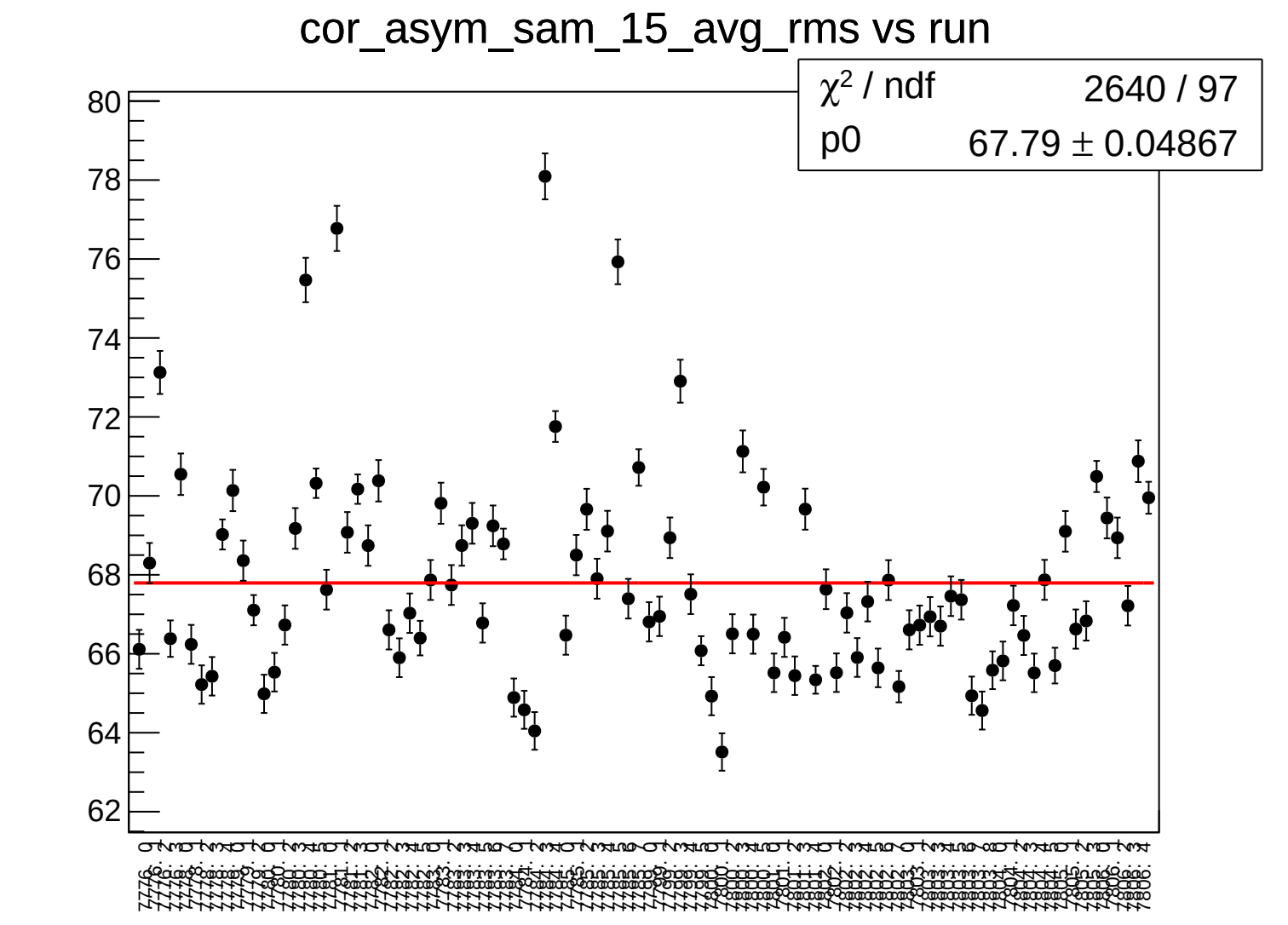

reg_asym_sam_15_avg_rms vs run
χ² / ndf 2640 / 97
p0 67.79 ± 0.04867
80
78
76
74
72
70
68
66
64
62

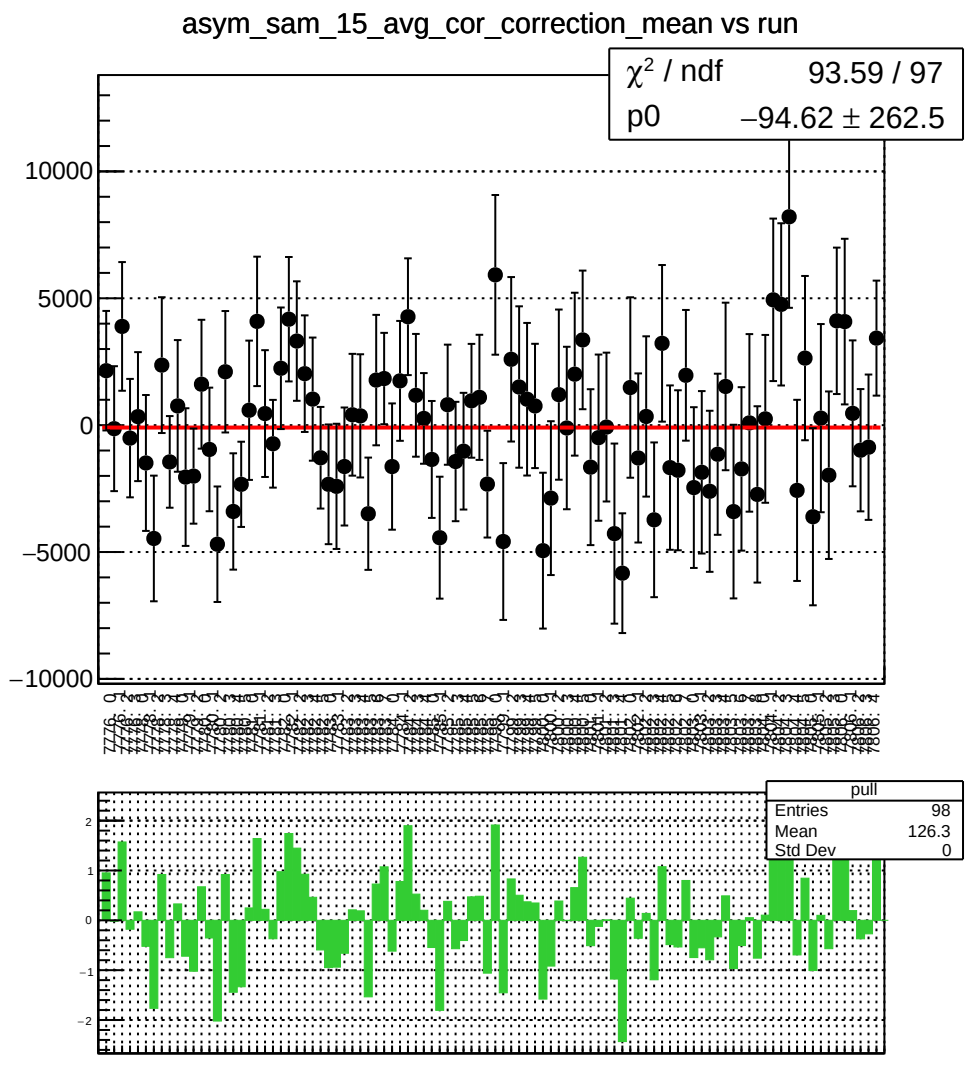

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 93.59 / 97
p0 −94.61 ± 262.5
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 126.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01883
Std Dev 0.9771
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

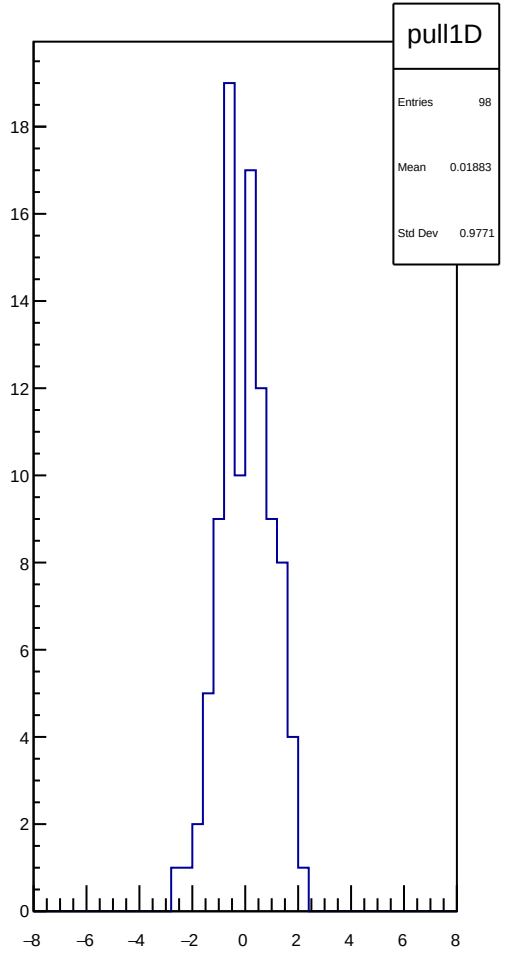

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 4.459e+04 / 97
p0 255.8 ± 0.1856
380
360
340
320
300
280
260
240
220
200

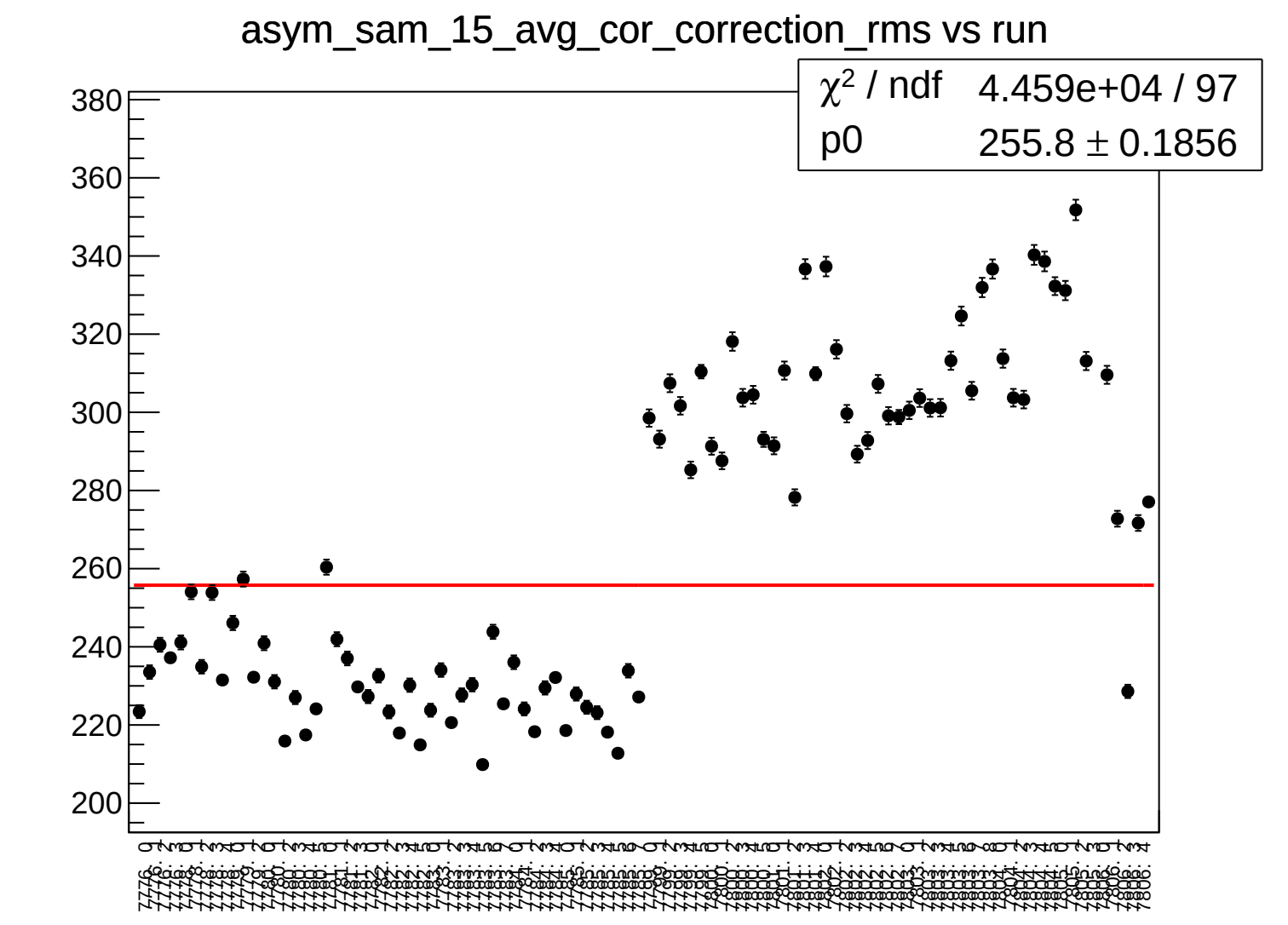

cor_asym_sam_15_avg_mean vs run
χ² / ndf 99.45 / 97
p0 35 ± 68.83
pull
Entries 98
Mean −44.48
Std Dev 0

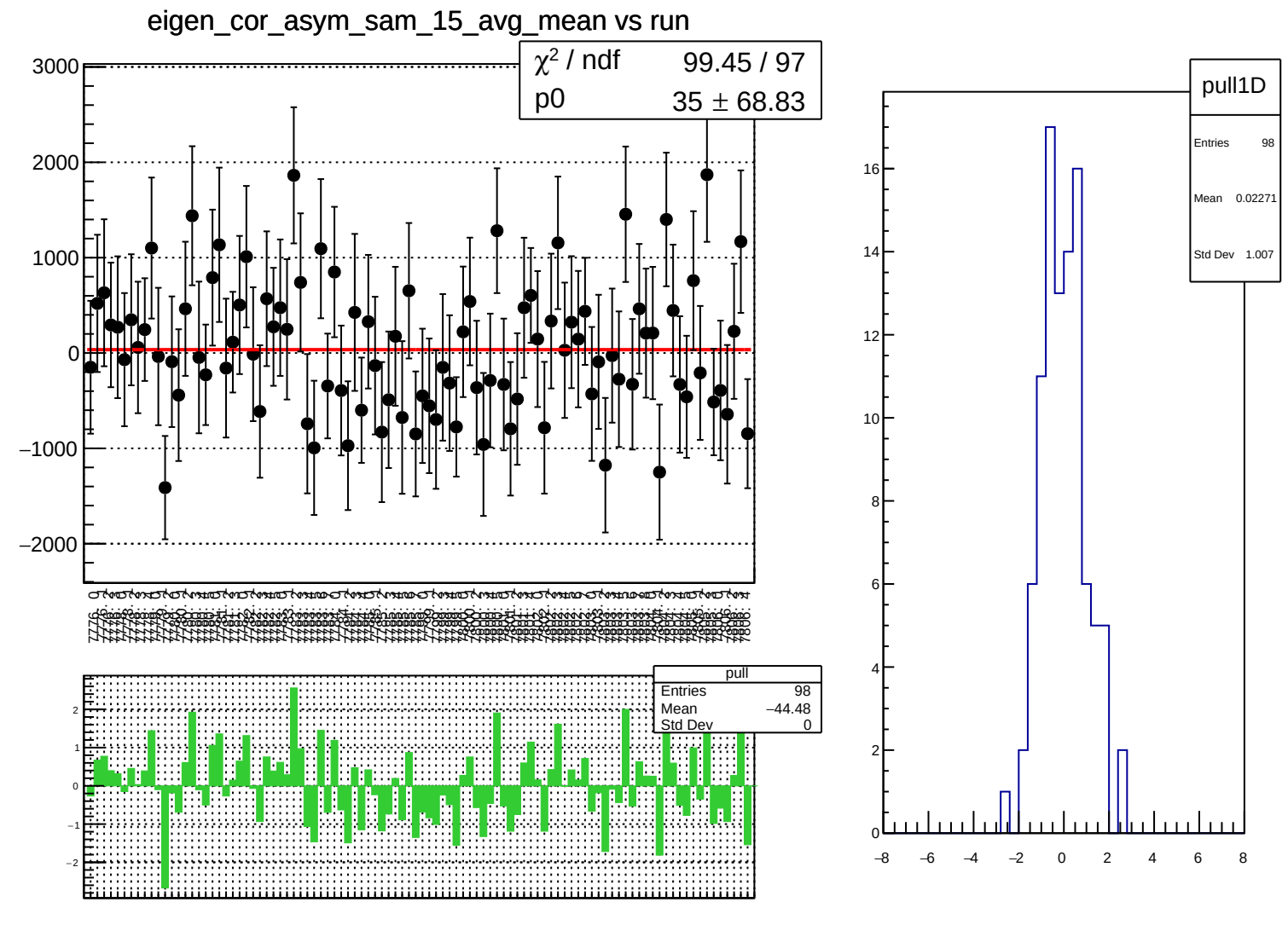

pull1D
Entries 98
Mean 0.02271
Std Dev 1.007

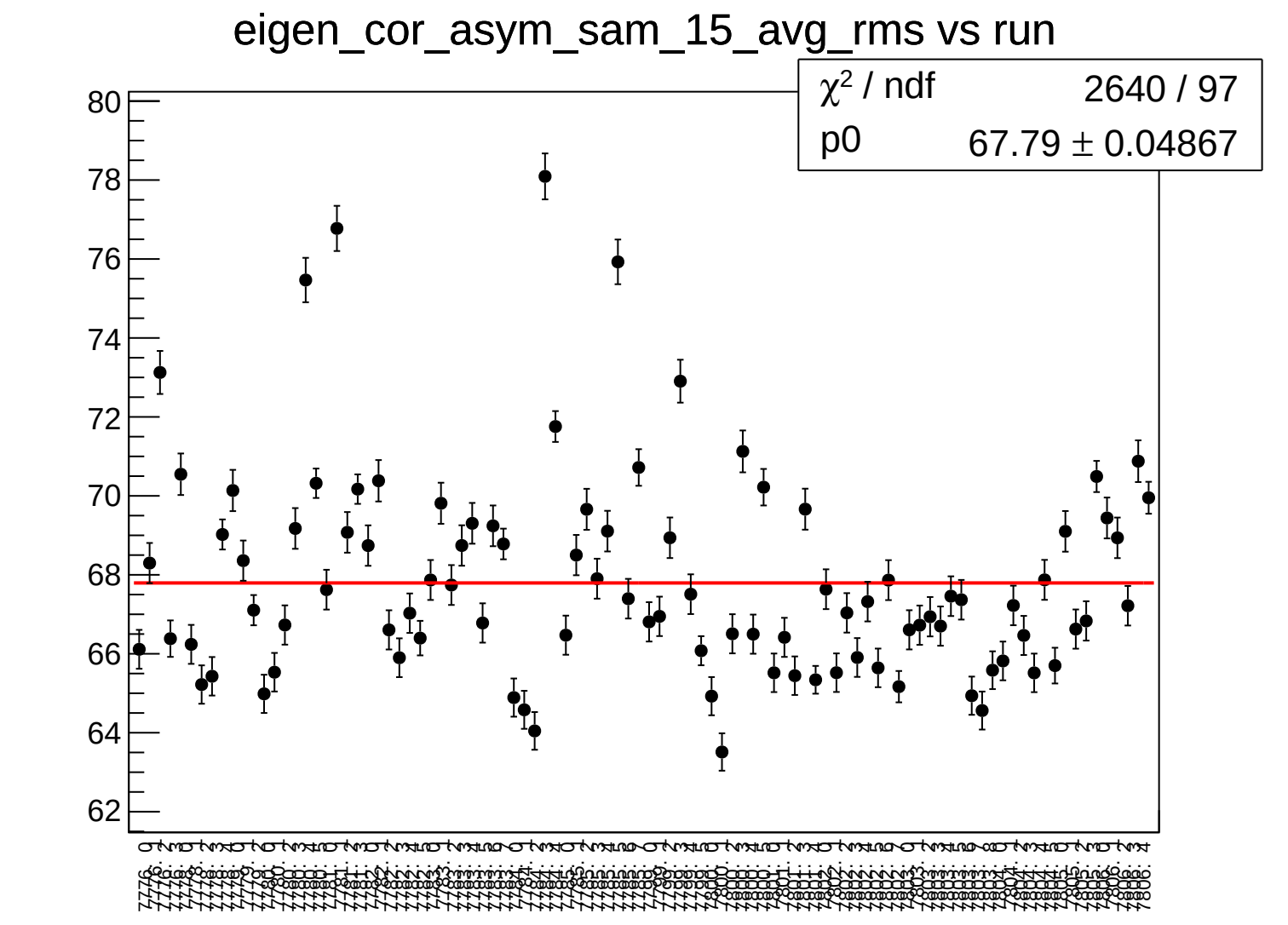

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 2640 / 97
p0 67.79 ± 0.04867
80
78
76
74
72
70
68
66
64
62

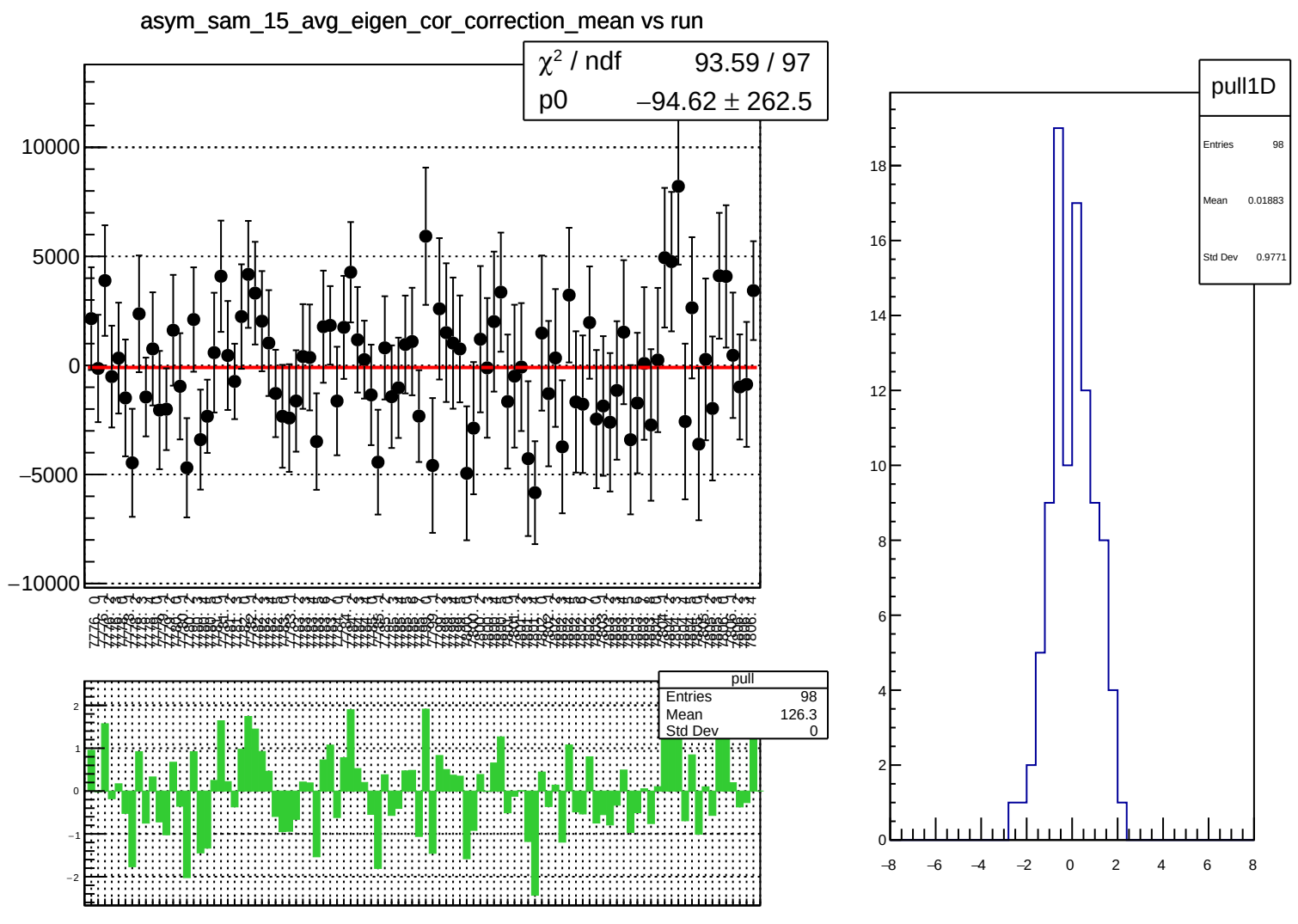

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 93.59 / 97
p0 −94.62 ± 262.5
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 126.3
Std Dev 0
2
1
0
−1
−2

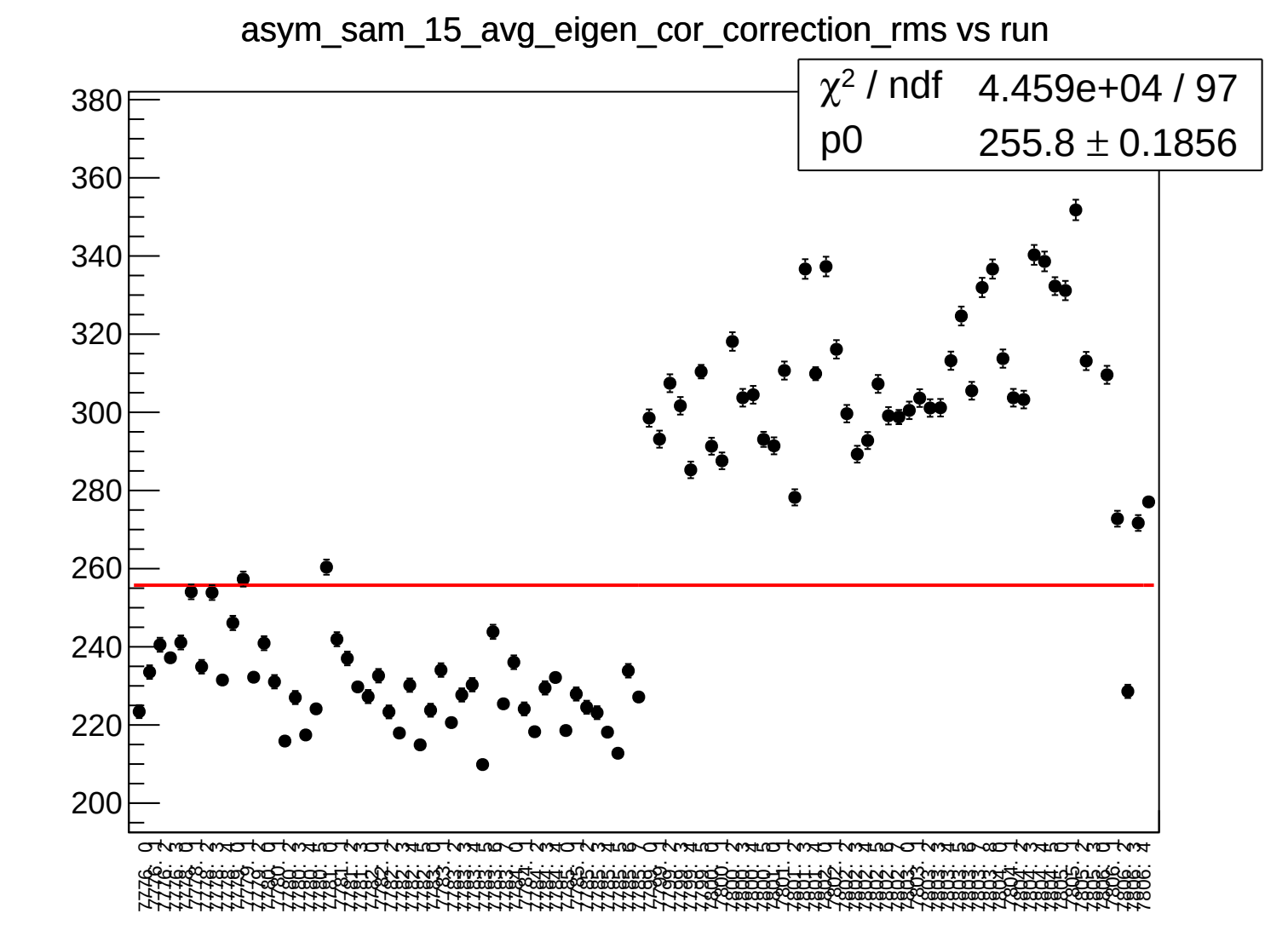

pull1D
Entries 98
Mean 0.01883
Std Dev 0.9771
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

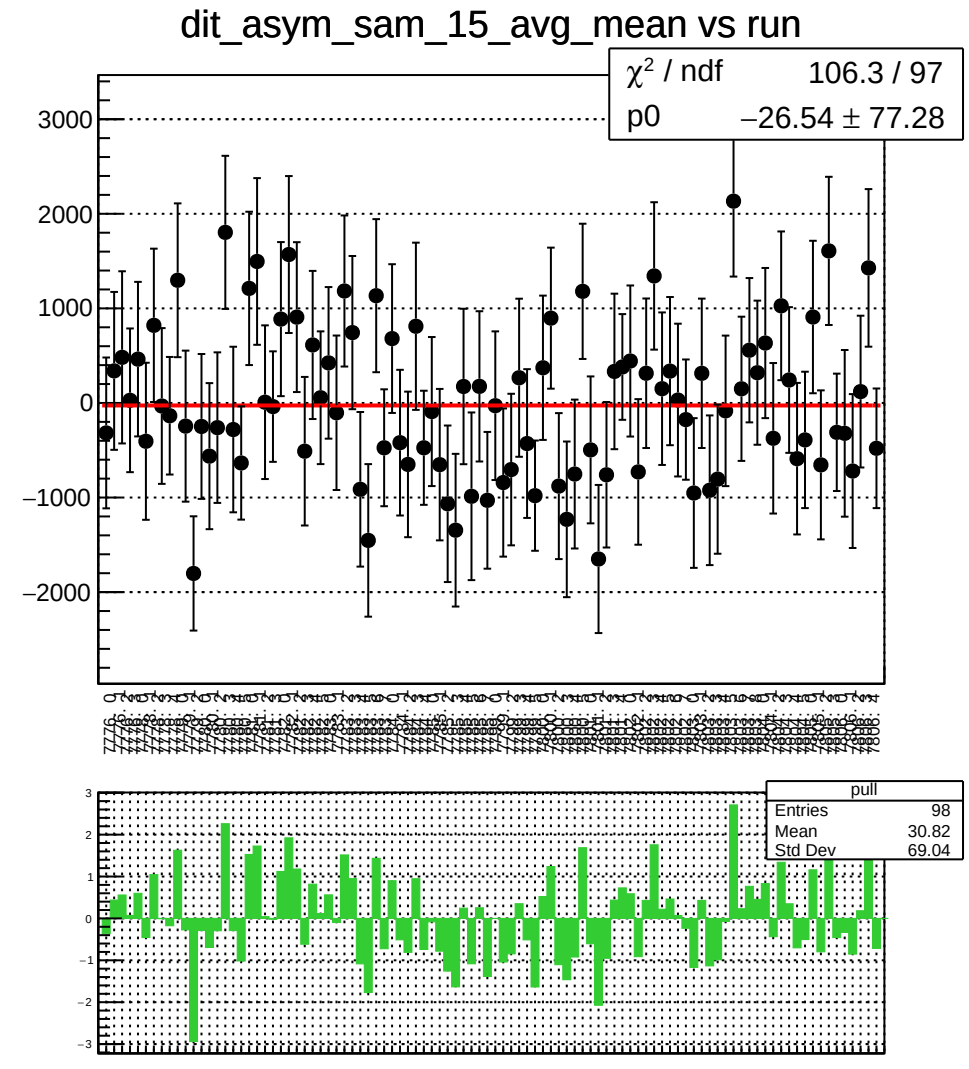

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 4.459e+04 / 97
p0 255.8 ± 0.1856
380
360
340
320
300
280
260
240
220
200

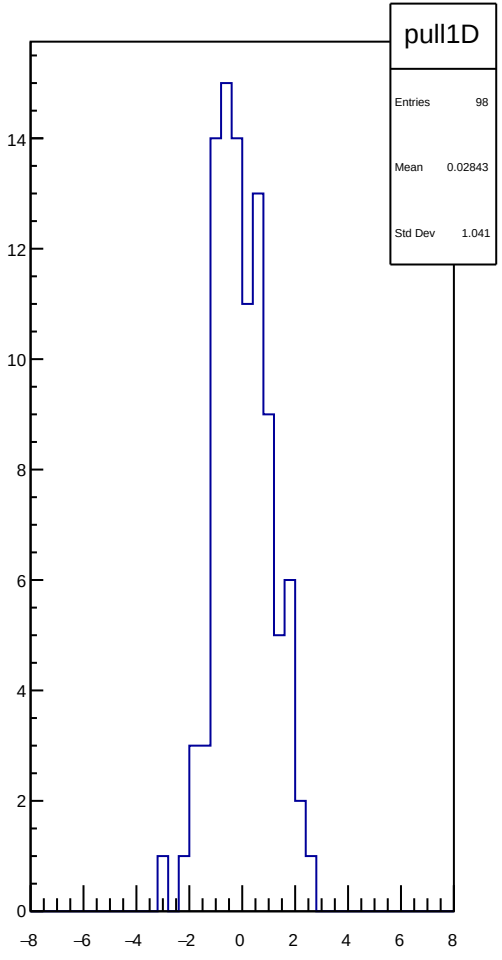

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 99.45 / 97
p0 35 ± 68.83
3000
2000
1000
0
−1000
−2000
pull
Entries 98
Mean −44.48
Std Dev 0
pull1D
Entries 98
Mean 0.02271
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

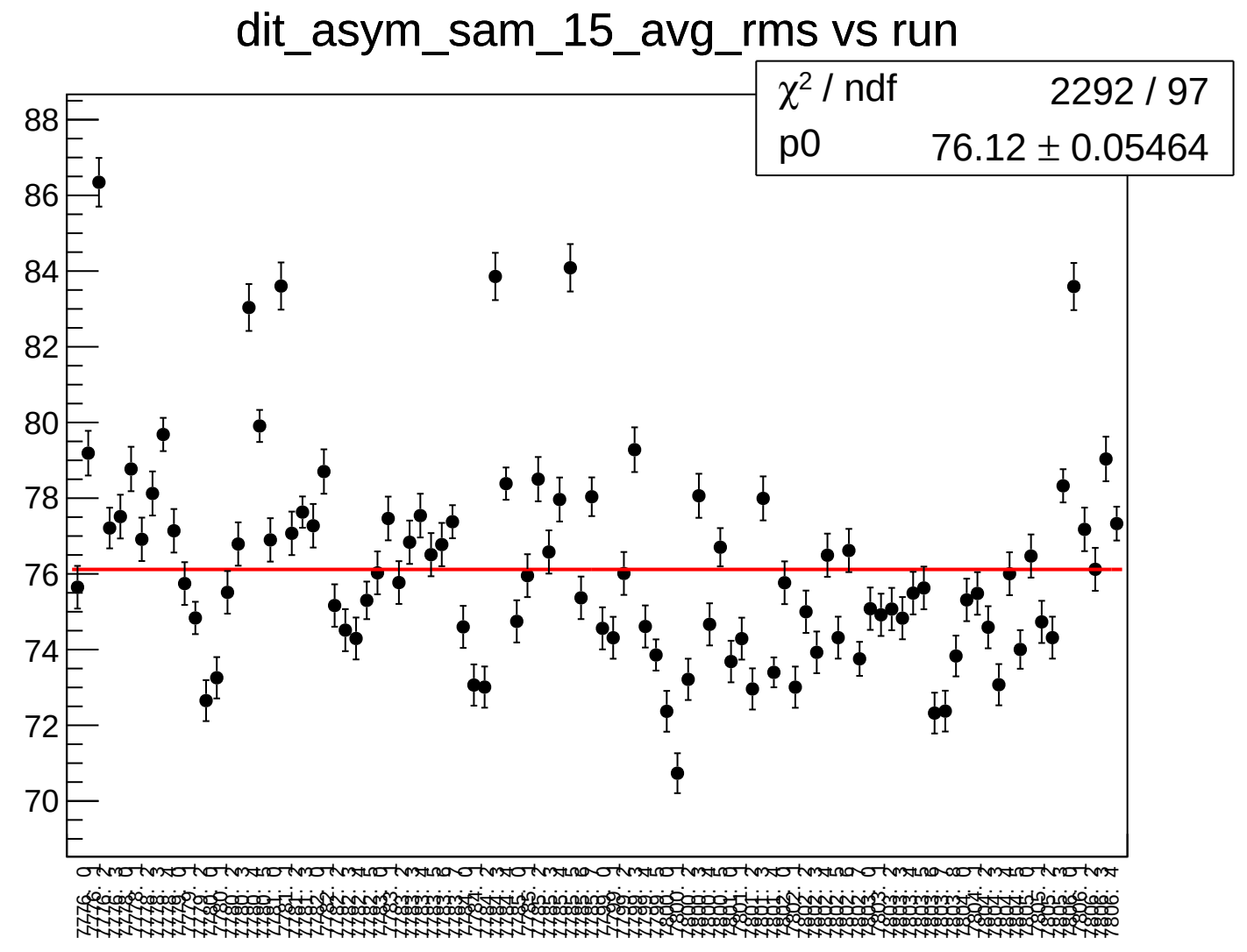

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 2640 / 97
p0 67.79 ± 0.04867
80
78
76
74
72
70
68
66
64
62

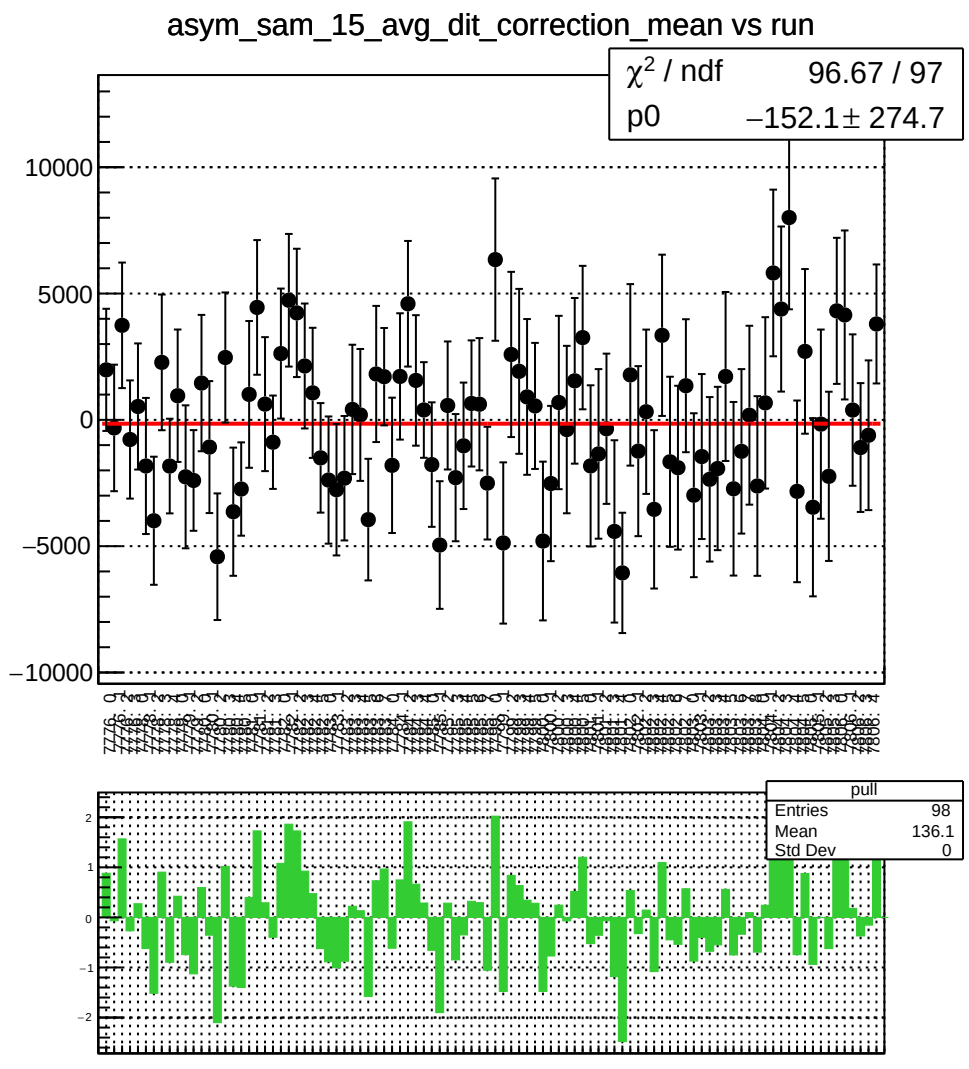

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.59 / 97
p0 −94.62 ± 262.5
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 126.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01883
Std Dev 0.9771
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

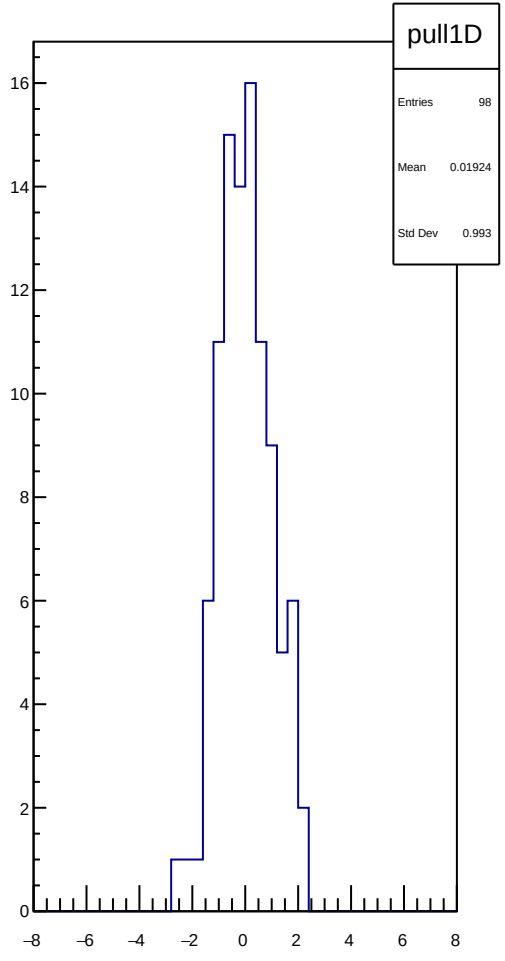

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.459e+04 / 97
p0 255.8 ± 0.1856
380
360
340
320
300
280
260
240
220
200

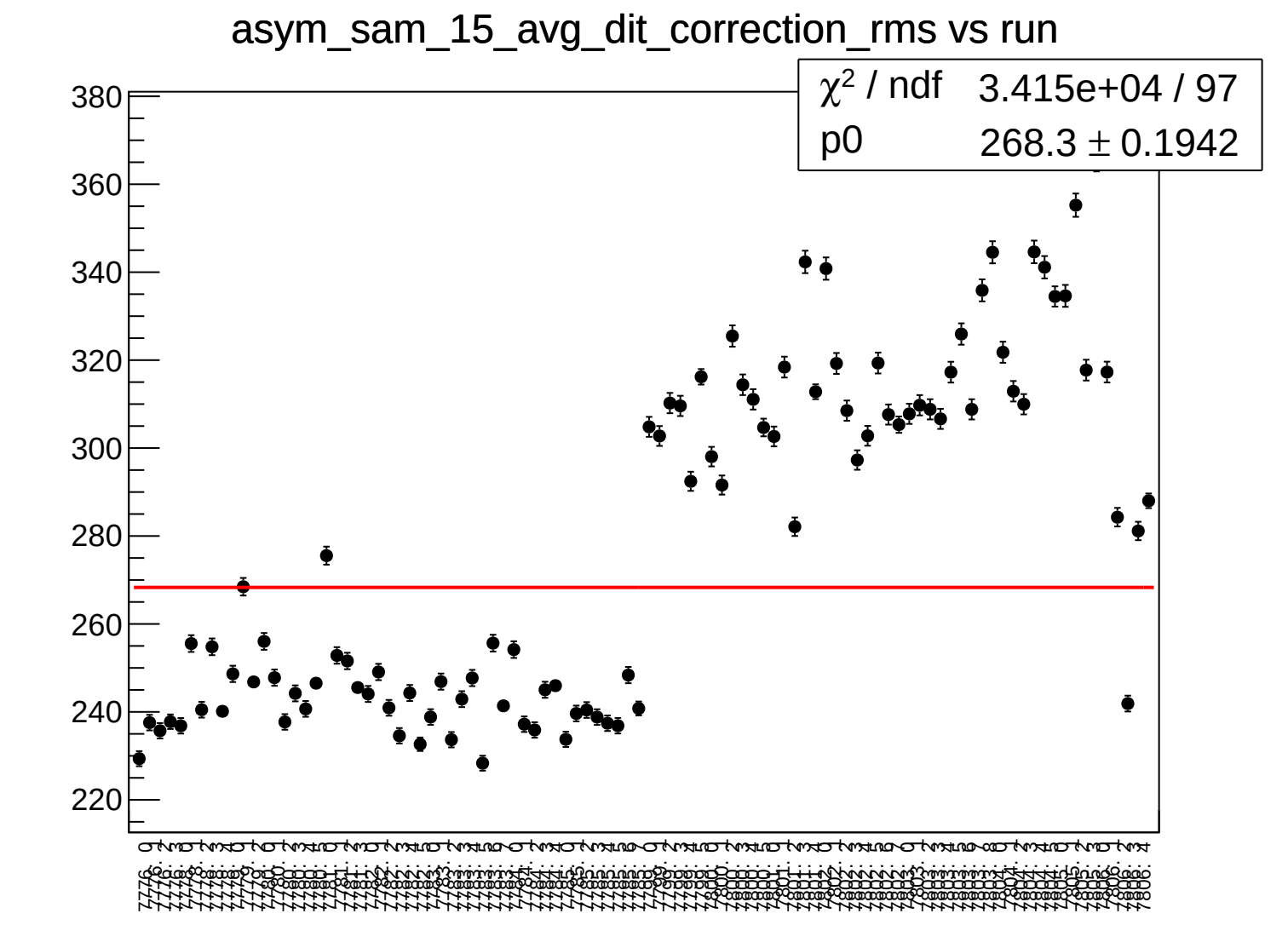

dit_asym_sam_15_avg_mean vs run
χ² / ndf 106.3 / 97
p0 −26.54 ± 77.28
3000
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 30.82
Std Dev 69.04
3
2
1
0
−1
−2
−3

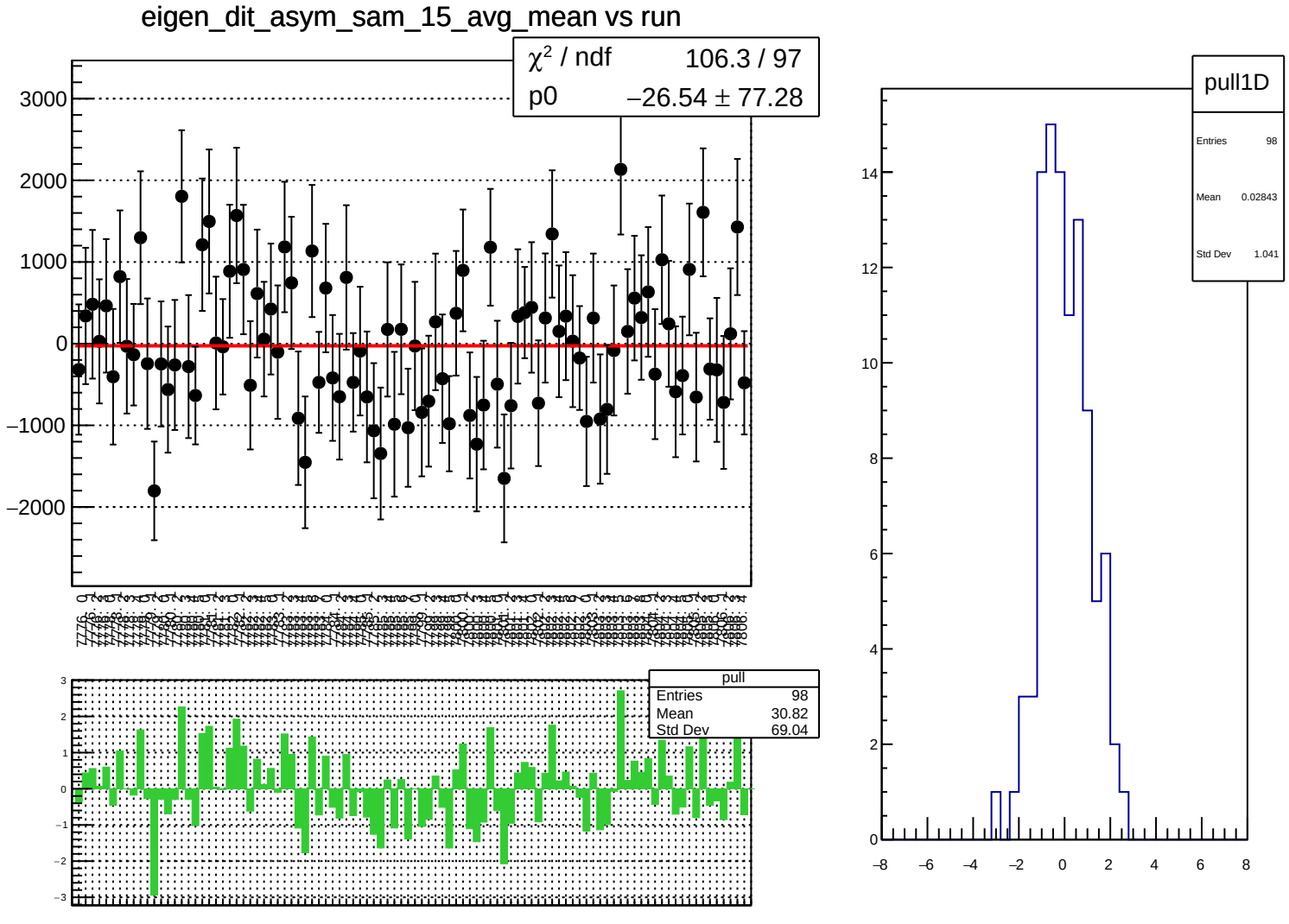

pull1D
Entries 98
Mean 0.02843
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

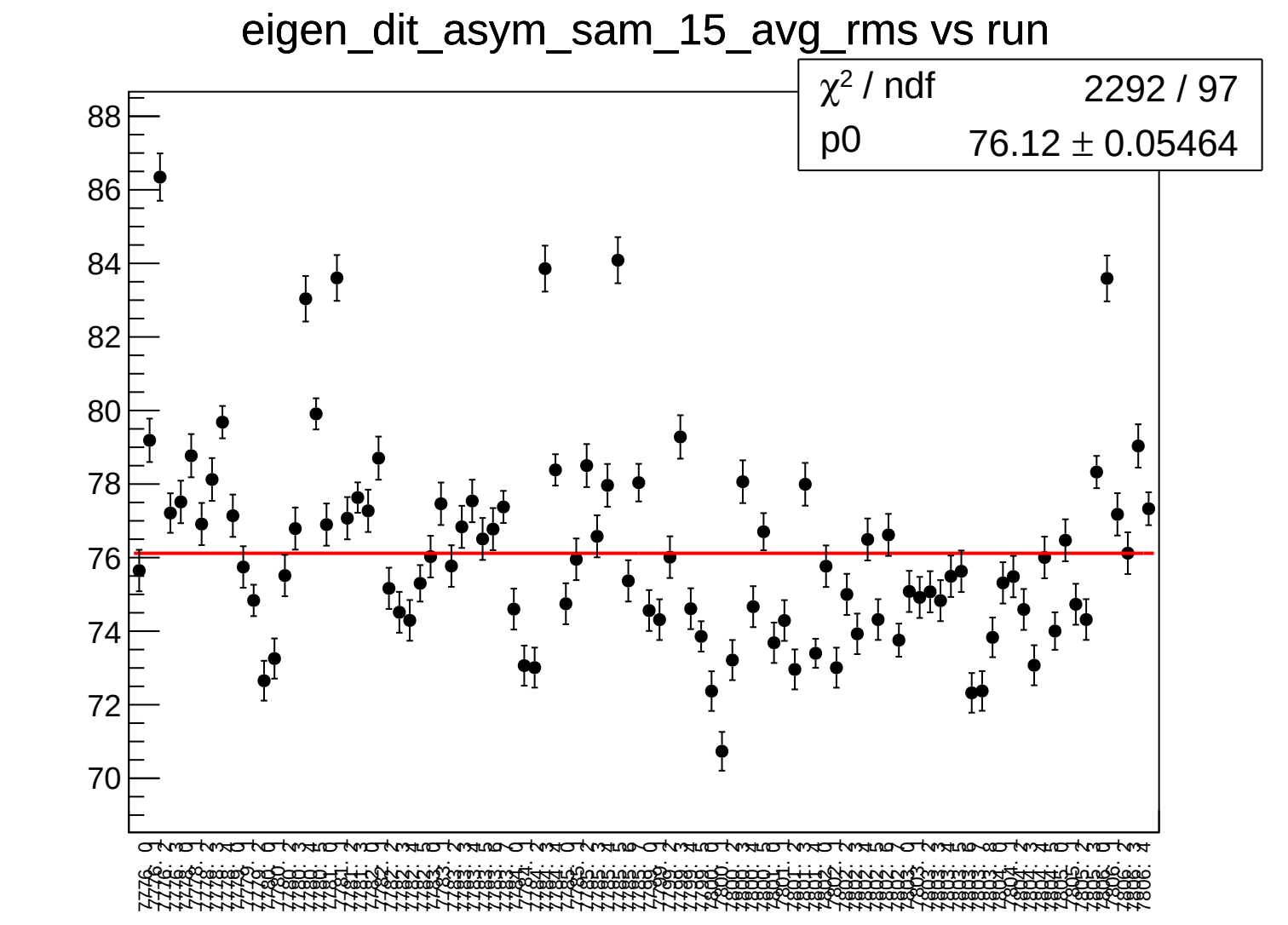

dit_asym_sam_15_avg_rms vs run
χ² / ndf 2292 / 97
p0 76.12 ± 0.05464
88
86
84
82
80
78
76
74
72
70

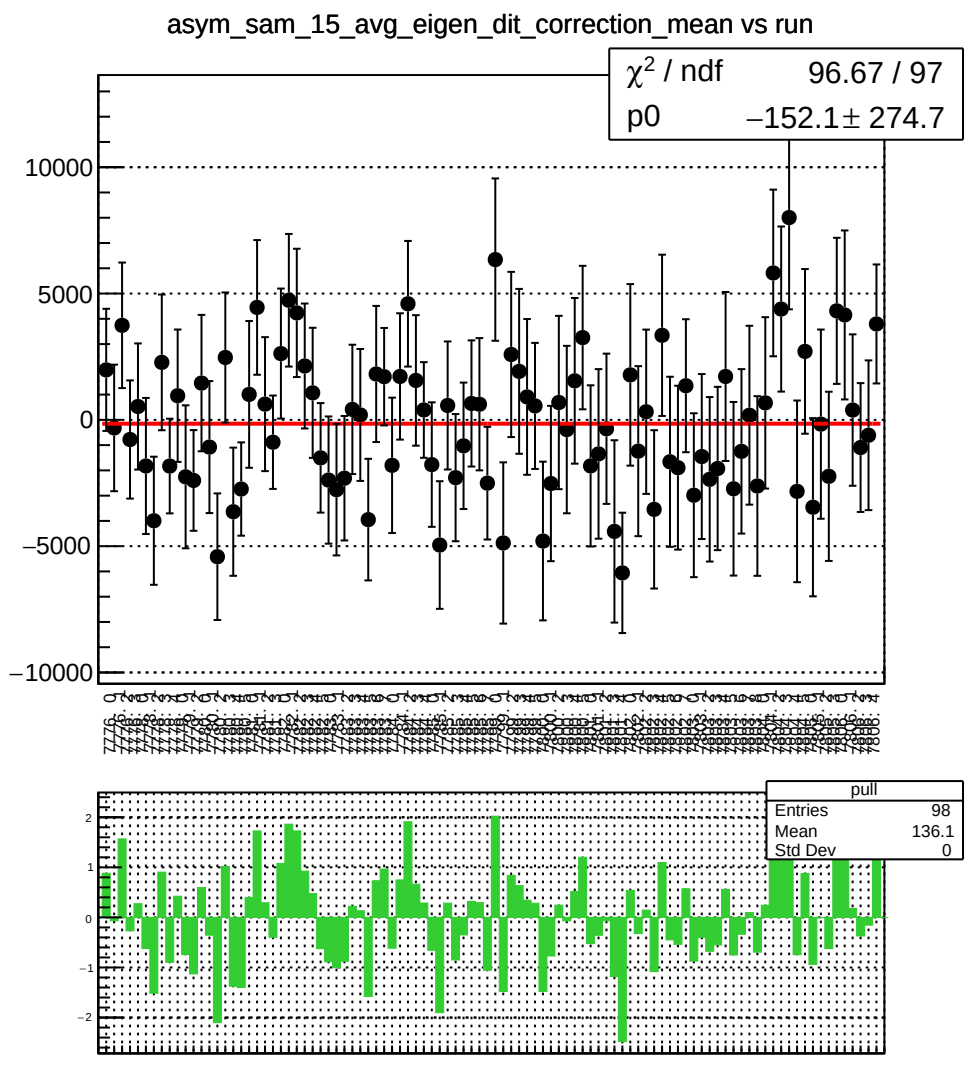

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 96.67 / 97
p0 −152.1± 274.7
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 136.1
Std Dev 0
2
1
0
−1
−2

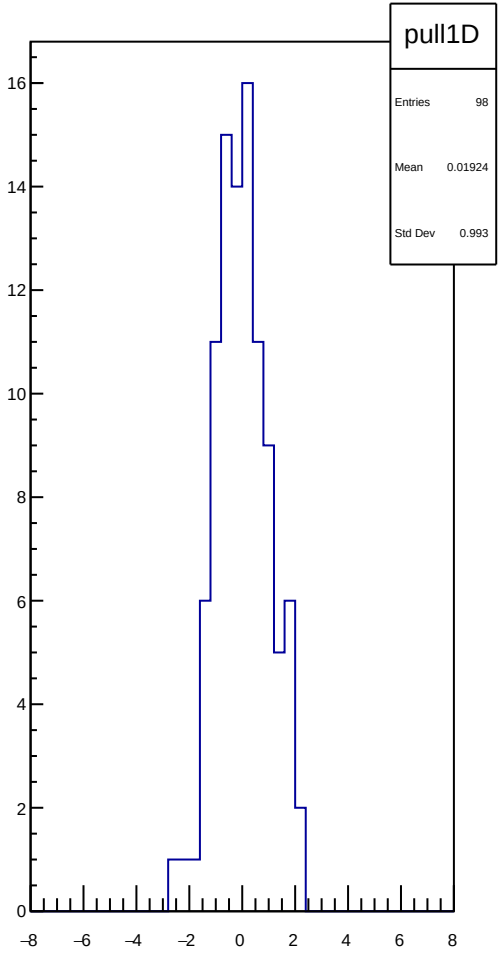

pull1D
Entries 98
Mean 0.01924
Std Dev 0.993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

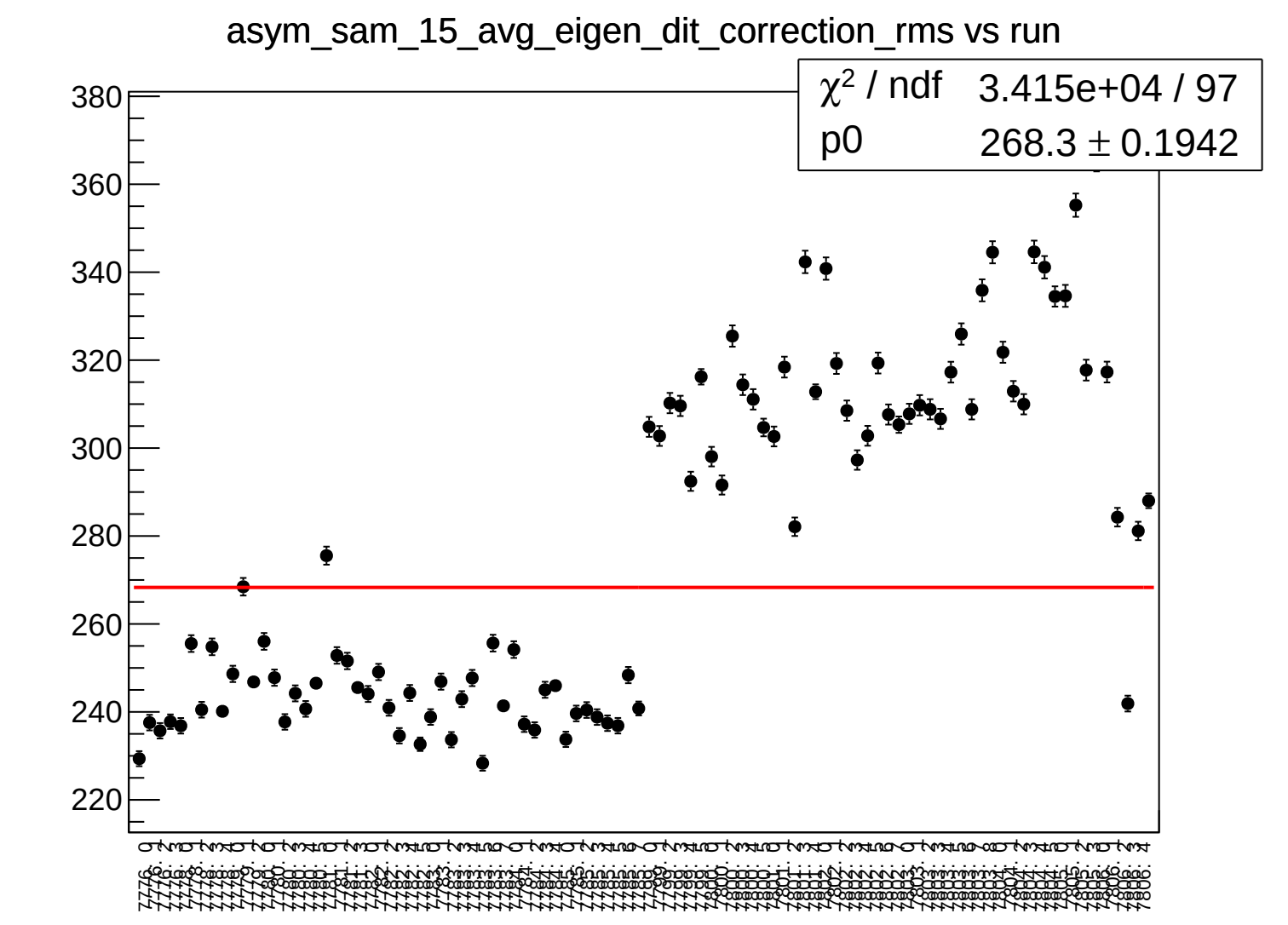

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 3.415e+04 / 97
p0 268.3 ± 0.1942
380
360
340
320
300
280
260
240
220

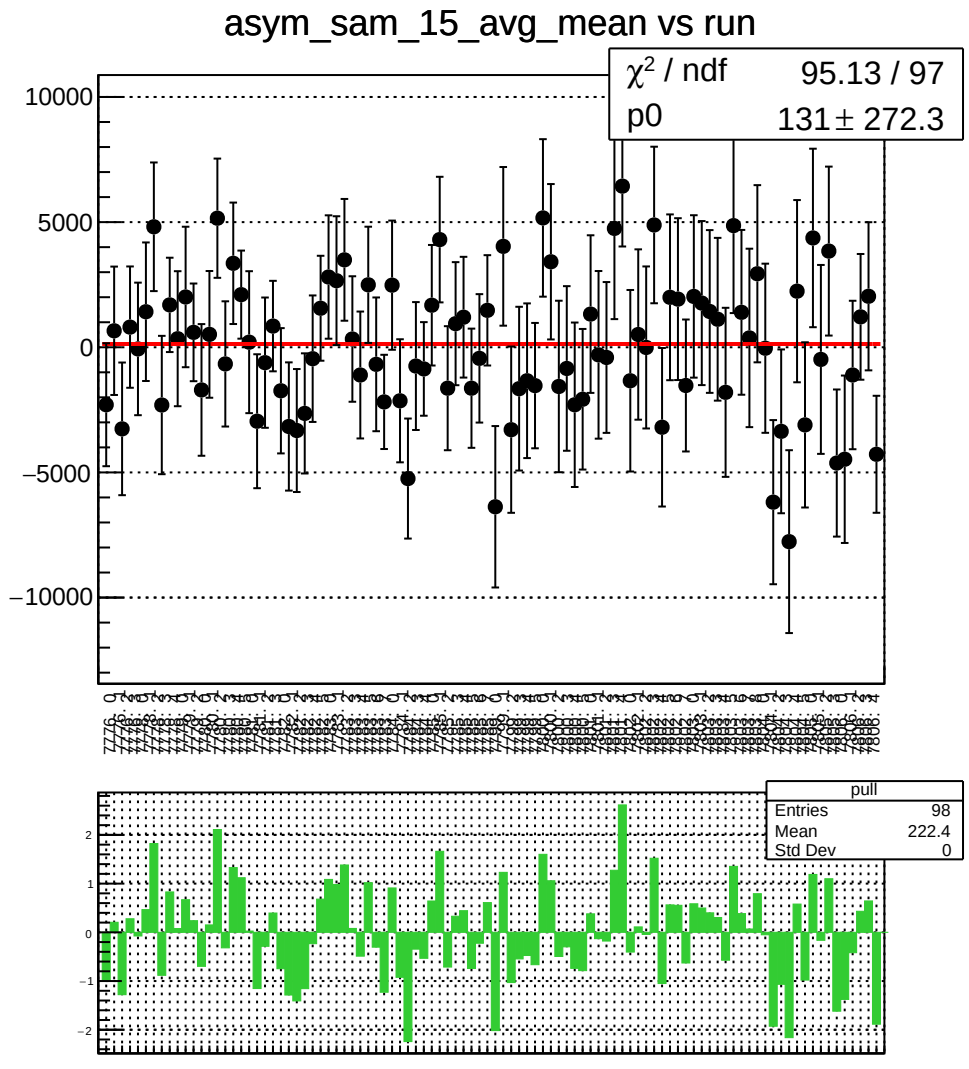

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 106.3 / 97
p0 −26.54 ± 77.28
3000
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 30.82
Std Dev 69.04
pull1D
Entries 98
Mean 0.02843
Std Dev 1.041

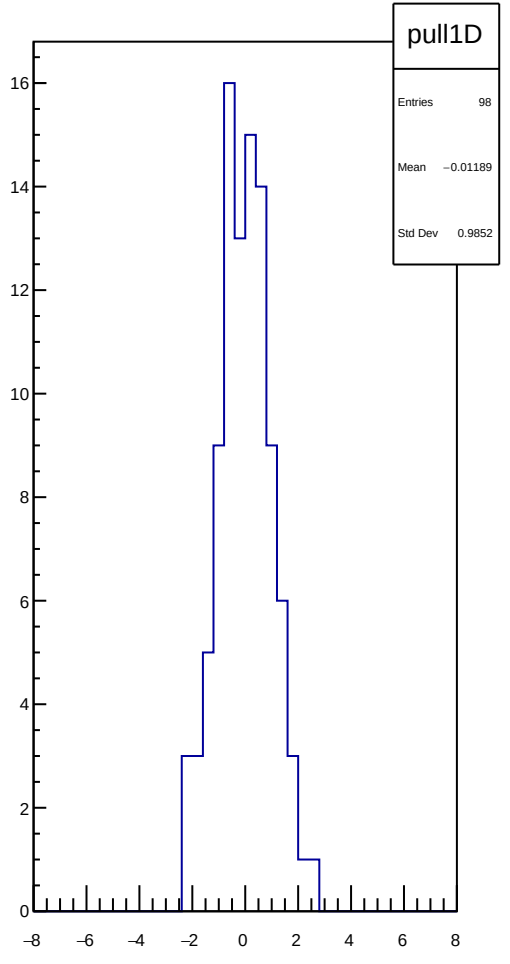

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 2292 / 97
p0 76.12 ± 0.05464
88
86
84
82
80
78
76
74
72
70

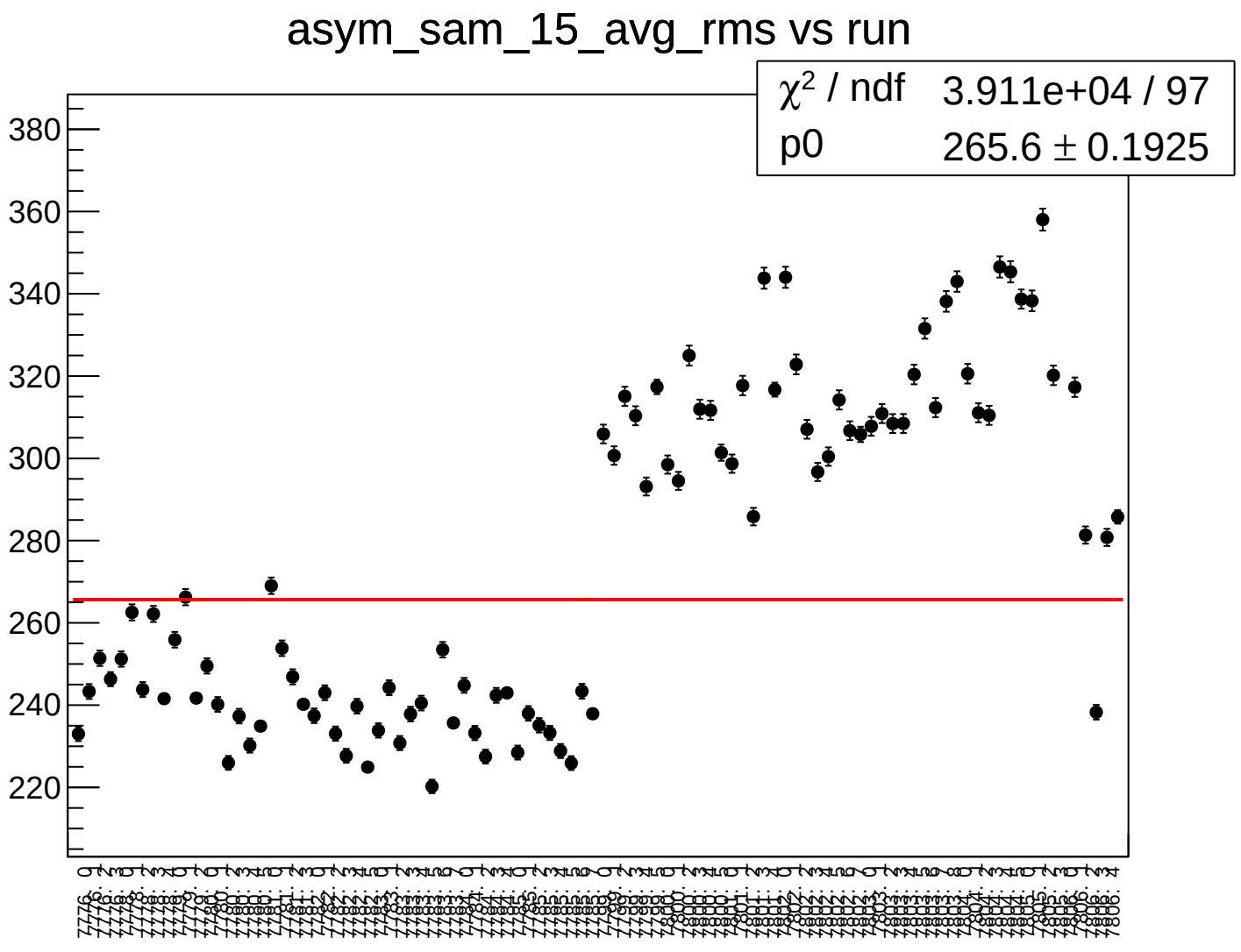

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.67 / 97
p0 −152.1± 274.7
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 136.1
Std Dev 0
2
1
0
−1
−2

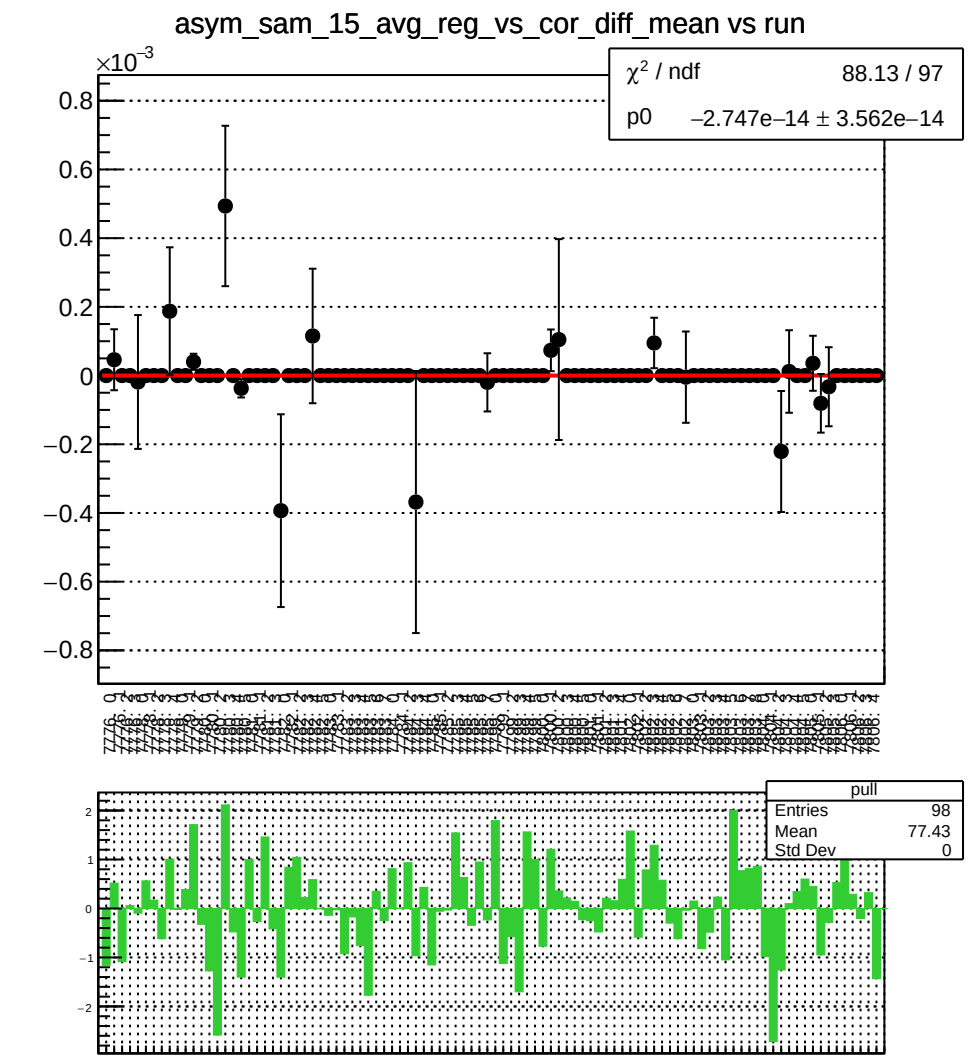

pull1D
Entries 98
Mean 0.01924
Std Dev 0.993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

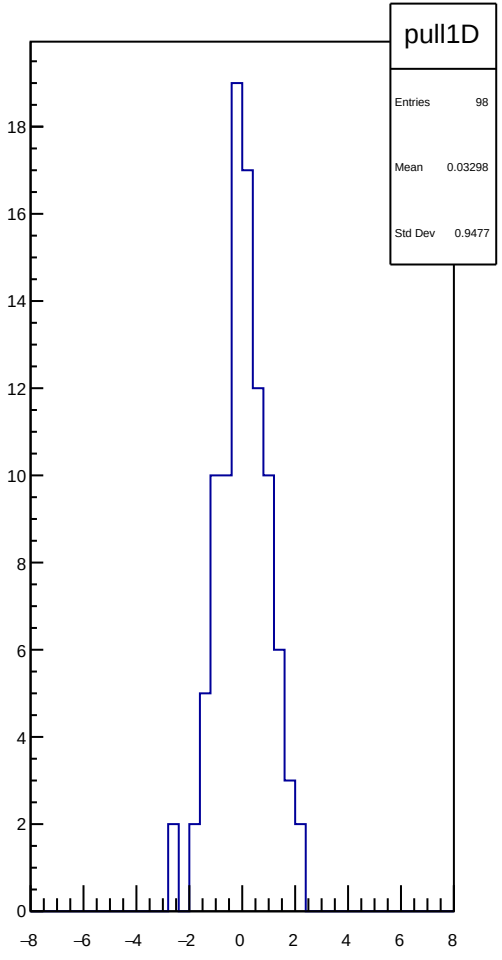

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.415e+04 / 97
p0 268.3 ± 0.1942
380
360
340
320
300
280
260
240
220

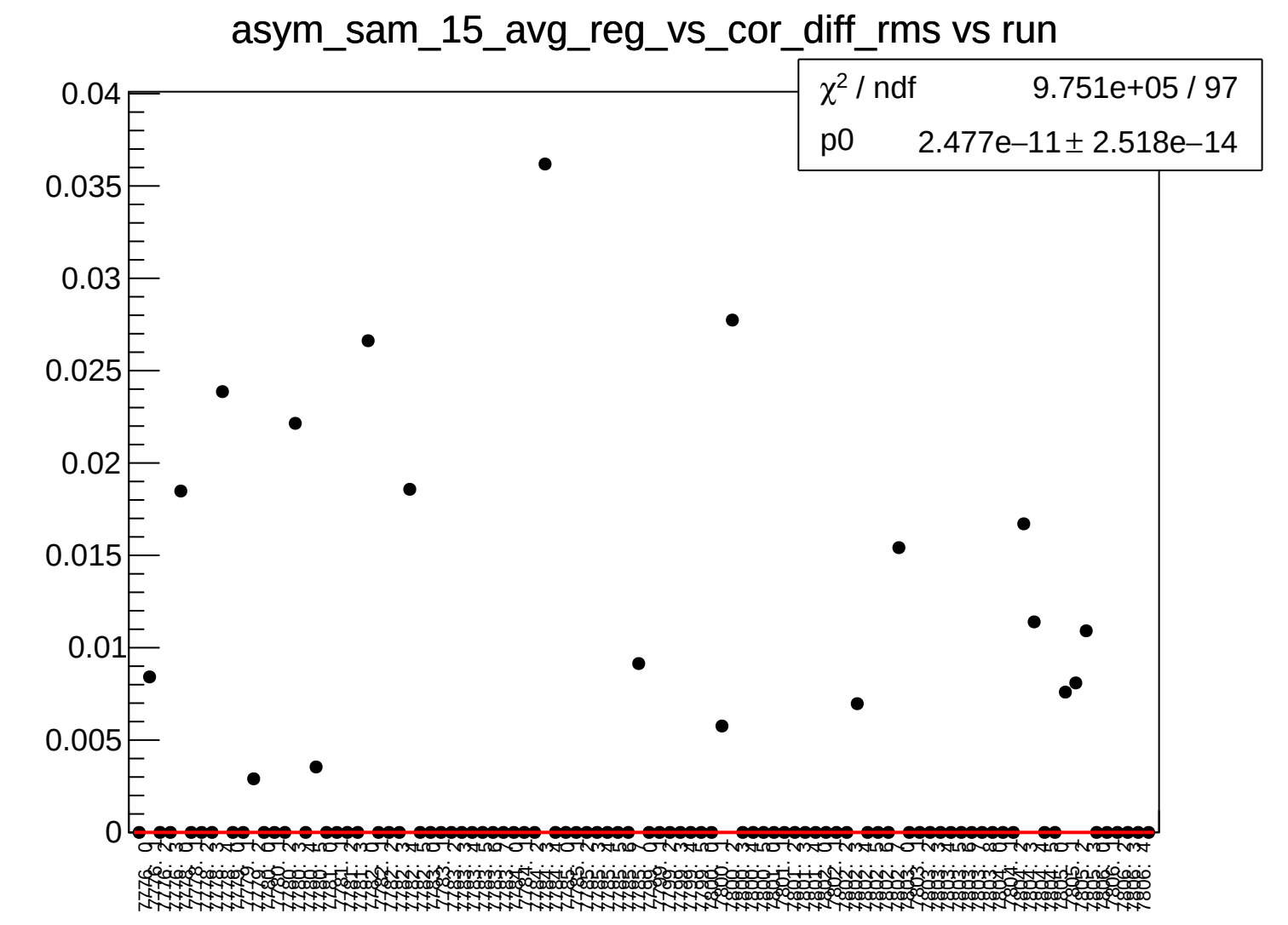

asym_sam_15_avg_mean vs run
χ² / ndf 95.13 / 97
p0 131 ± 272.3
10000
5000
0
−5000
−10000
pull
Entries 98
Mean 222.4
Std Dev 0
2
1
0
−1
−2

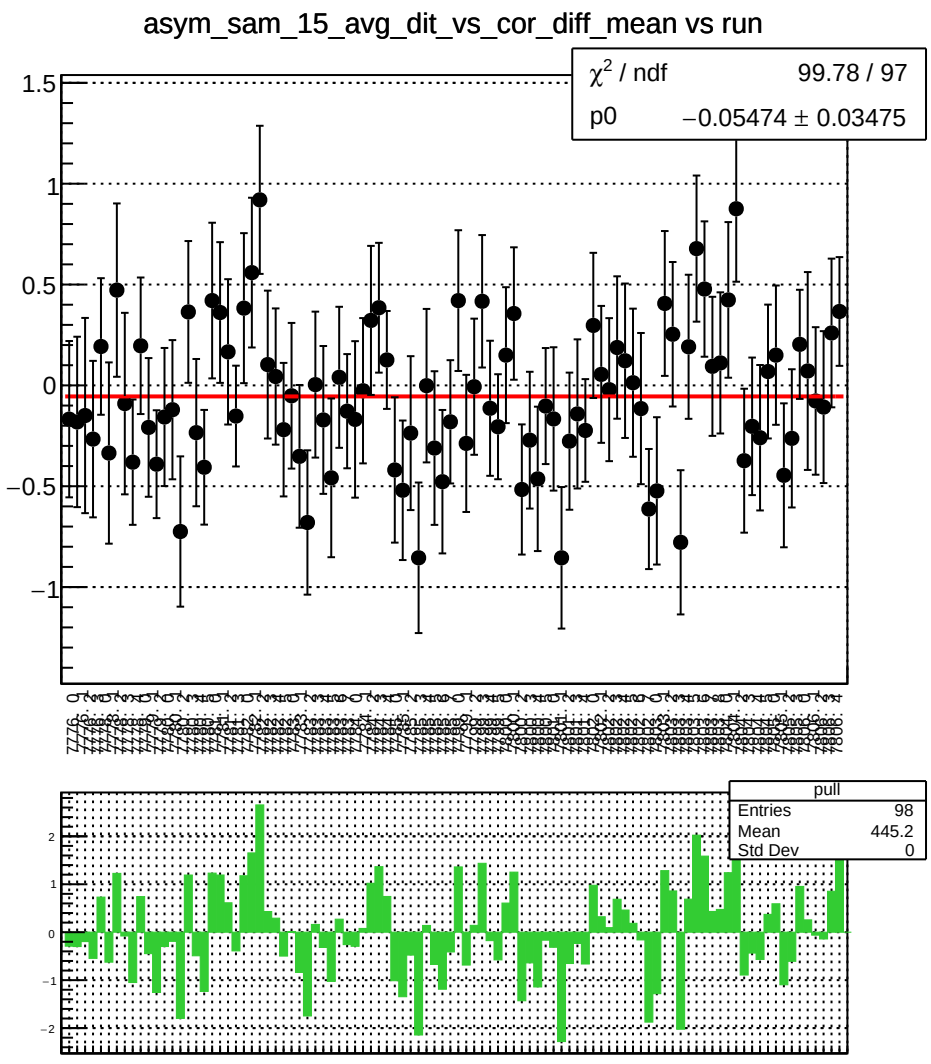

pull1D
Entries 98
Mean −0.01189
Std Dev 0.9852
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

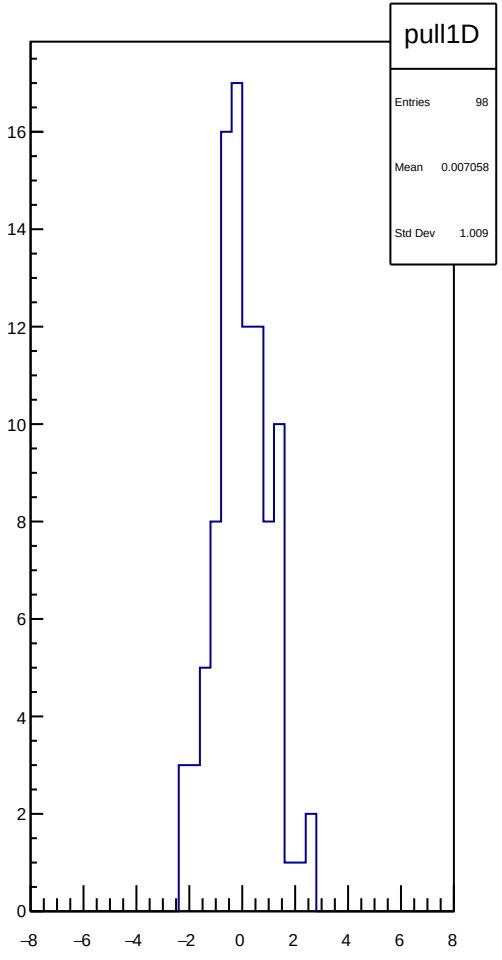

asym_sam_15_avg_rms vs run
χ² / ndf 3.911e+04 / 97
p0 265.6 ± 0.1925
380
360
340
320
300
280
260
240
220

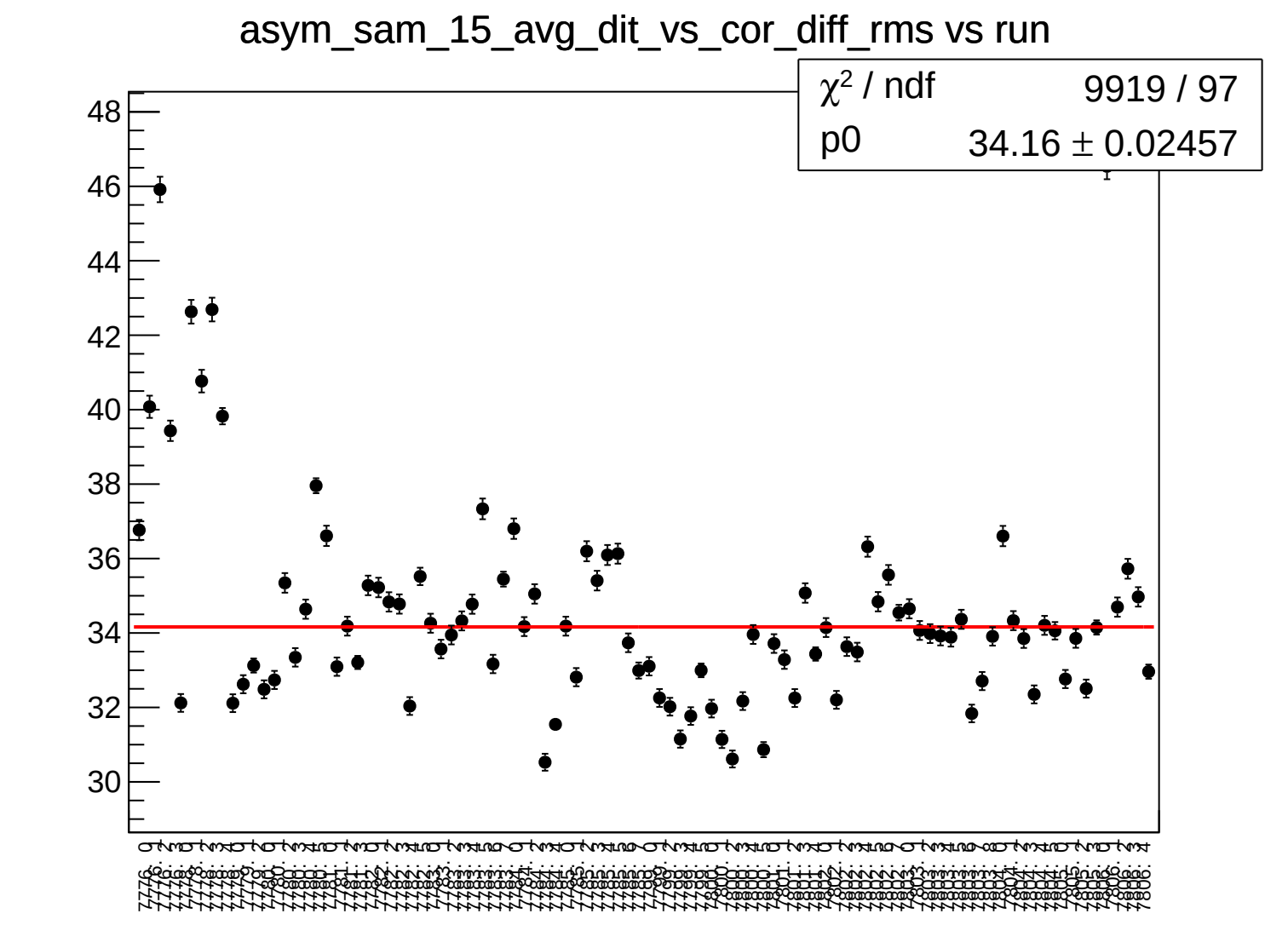

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 88.13 / 97
p0 −2.747e−14 ± 3.562e−14
pull
Entries 98
Mean 77.43
Std Dev 0

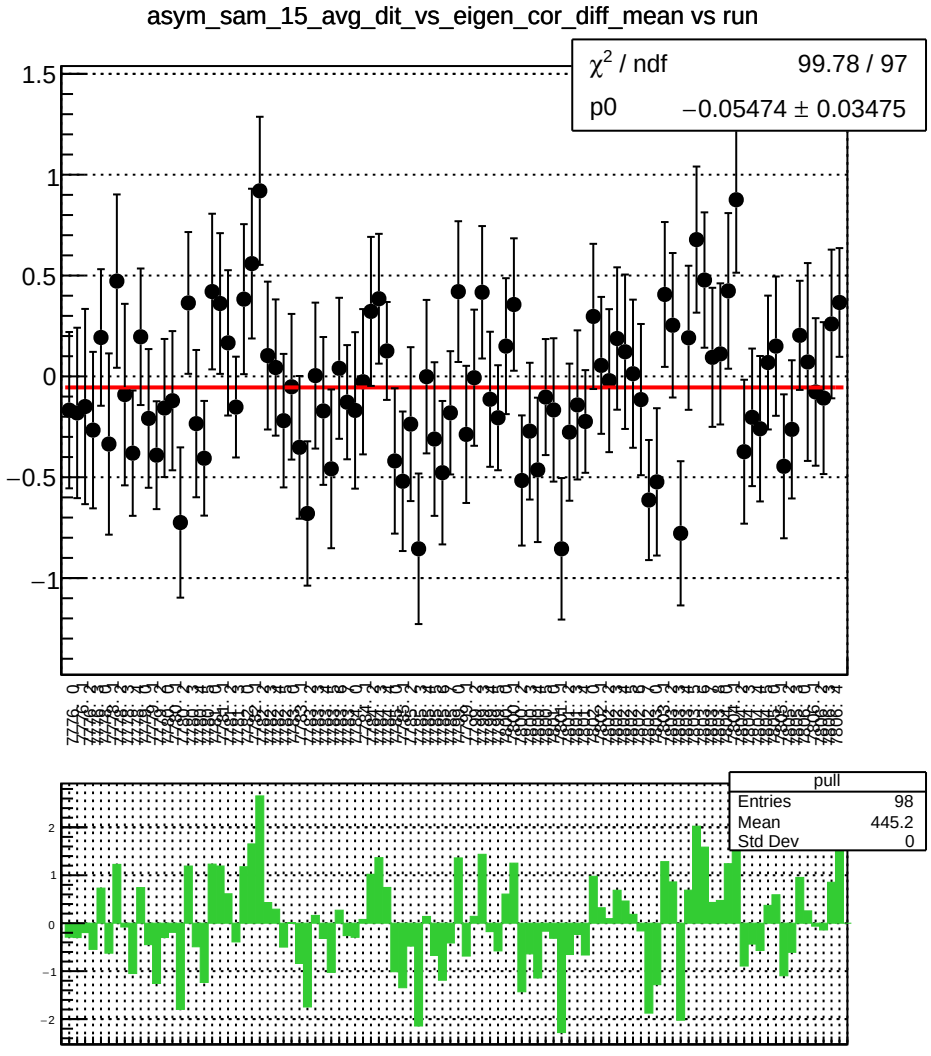

pull1D
Entries 98
Mean 0.03298
Std Dev 0.9477

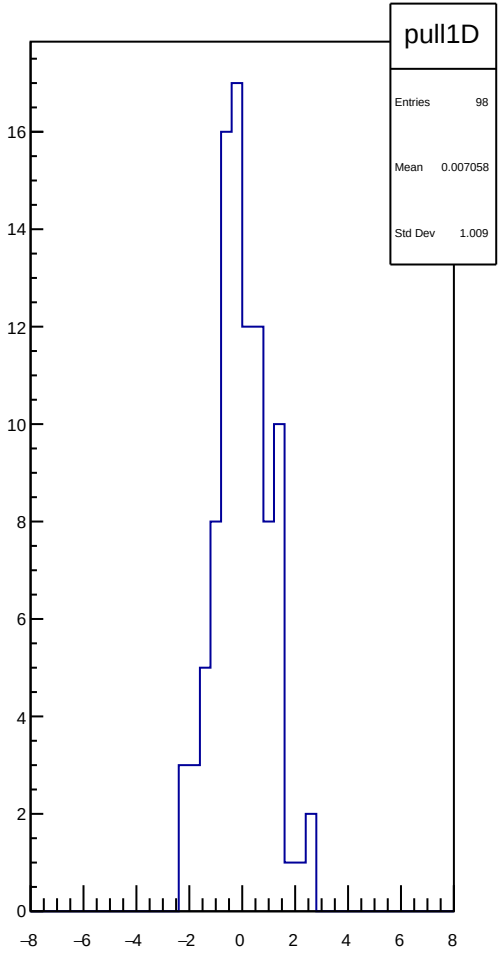

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.751e+05 / 97
p0 2.477e−11 ± 2.518e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

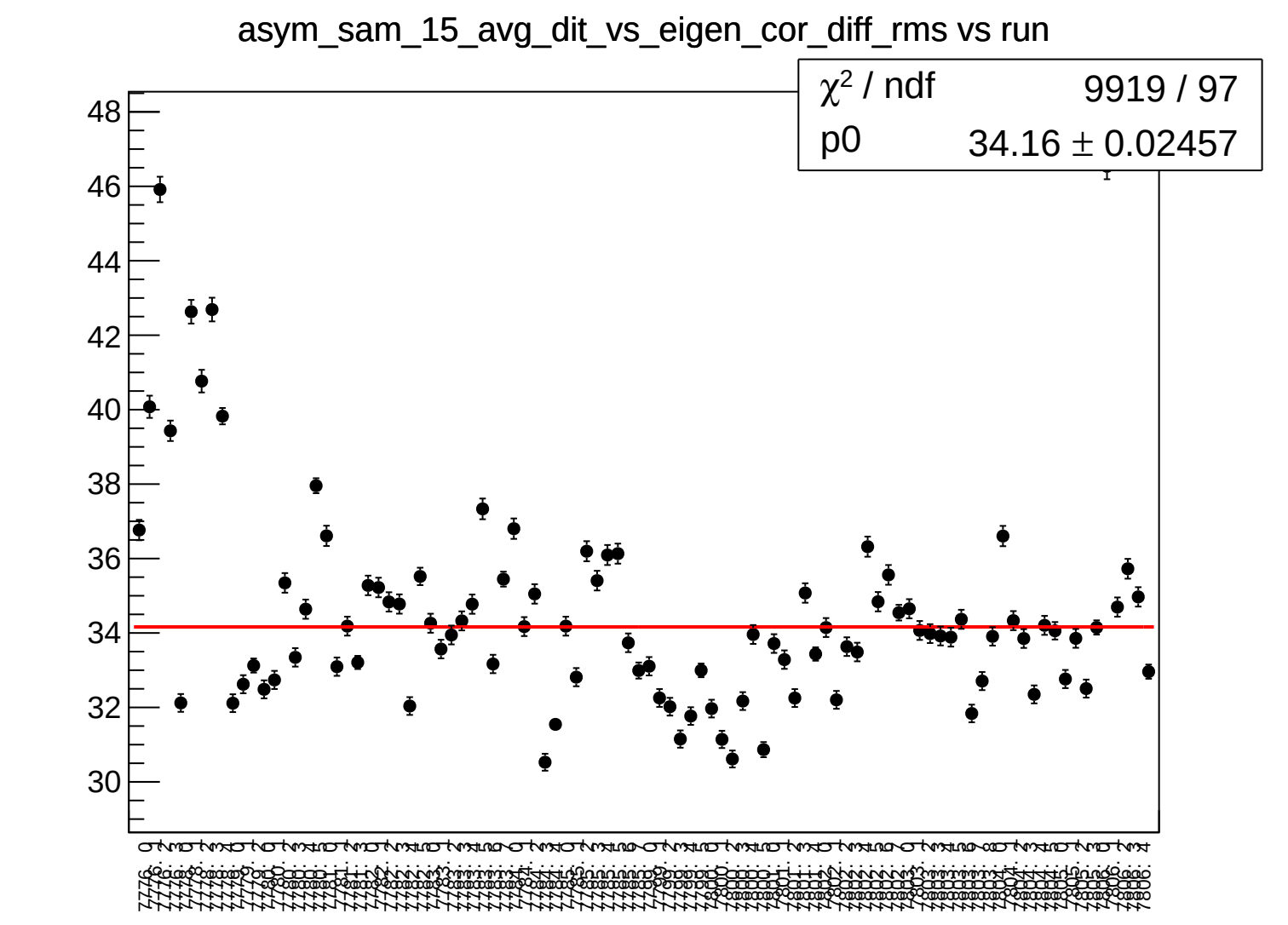

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.78 / 97
p0 −0.05474 ± 0.03475
pull
Entries 98
Mean 445.2
Std Dev 0

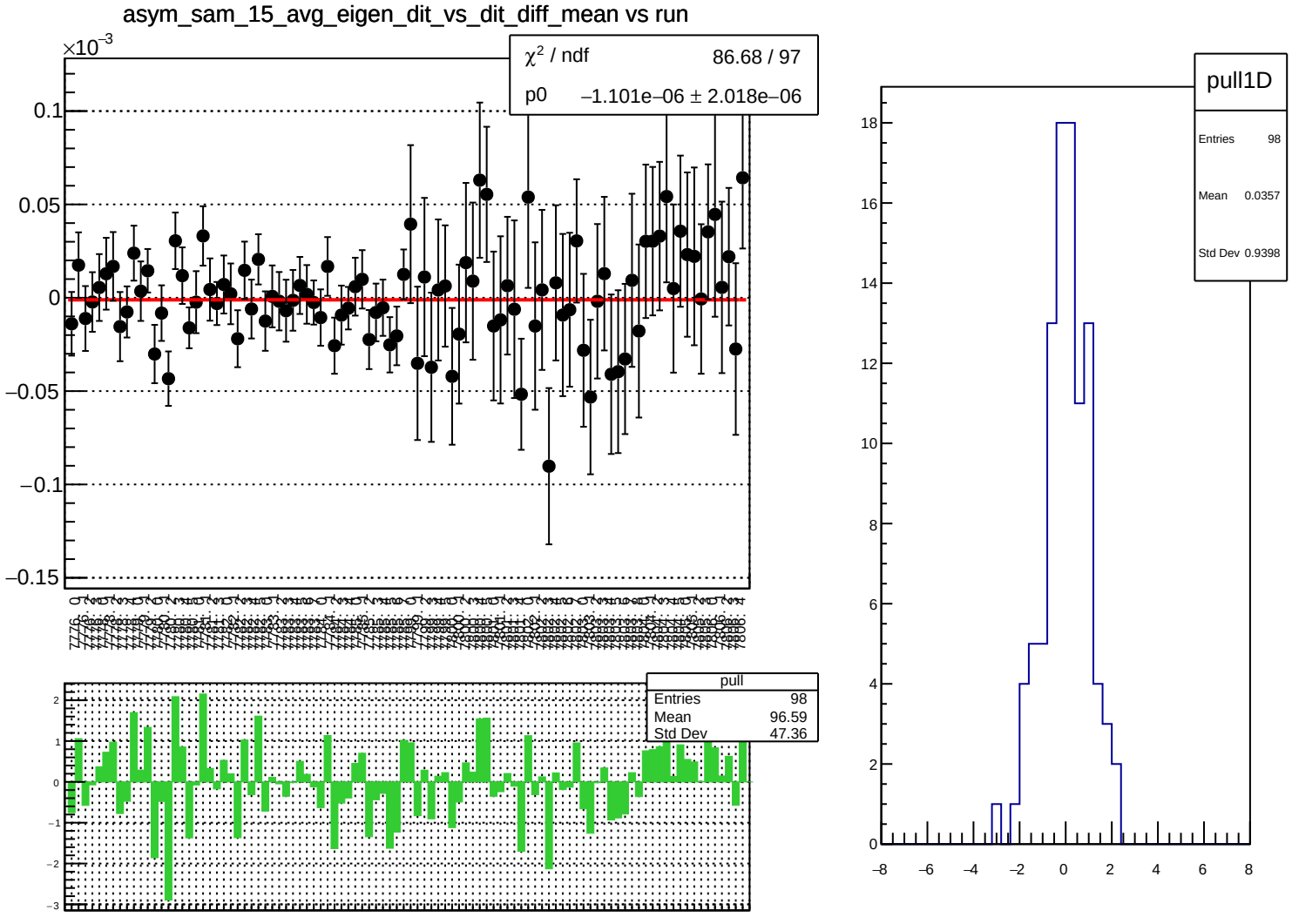

pull1D
Entries 98
Mean 0.007058
Std Dev 1.009

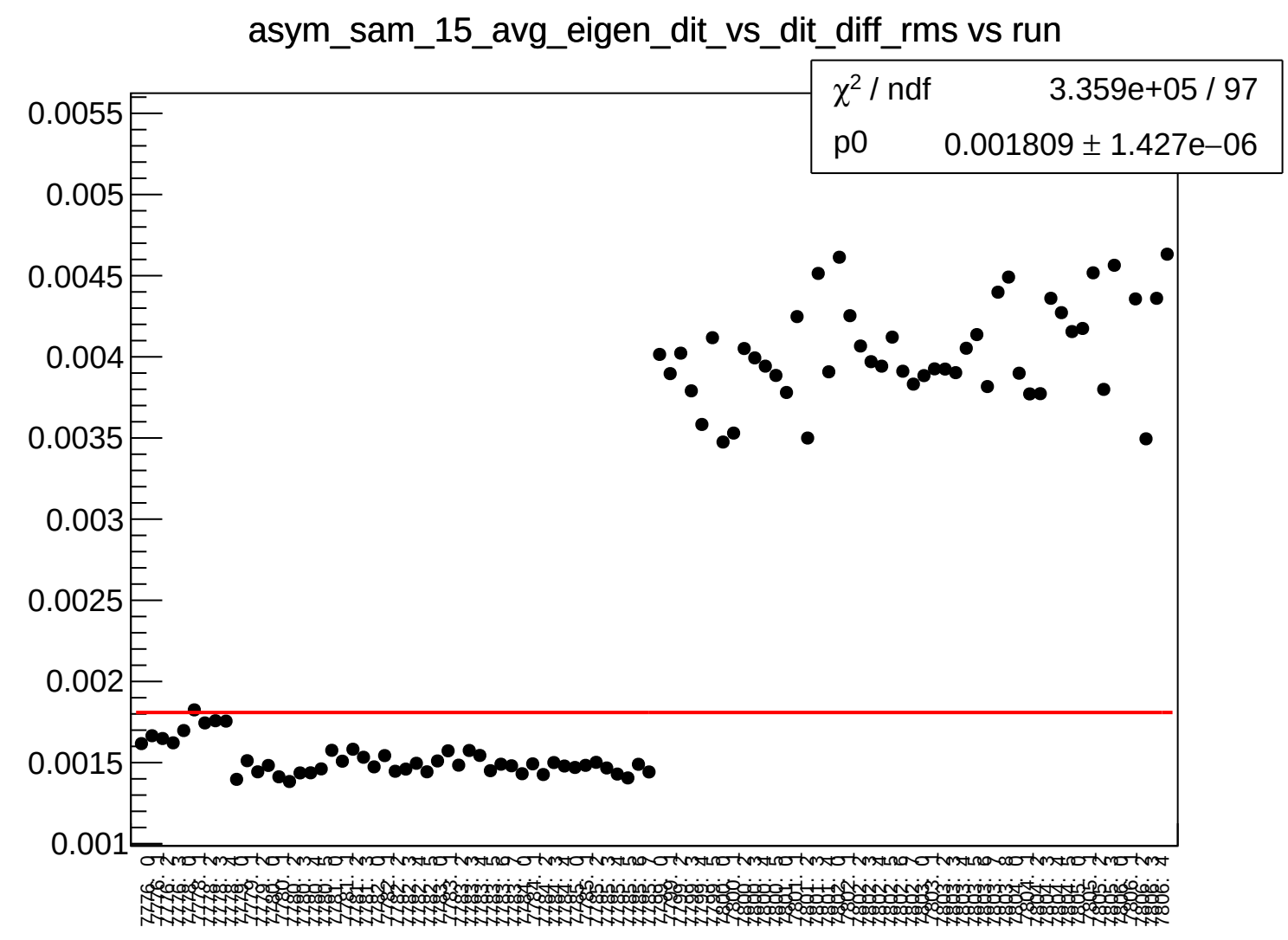

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9919 / 97
p0 34.16 ± 0.02457
48
46
44
42
40
38
36
34
32
30

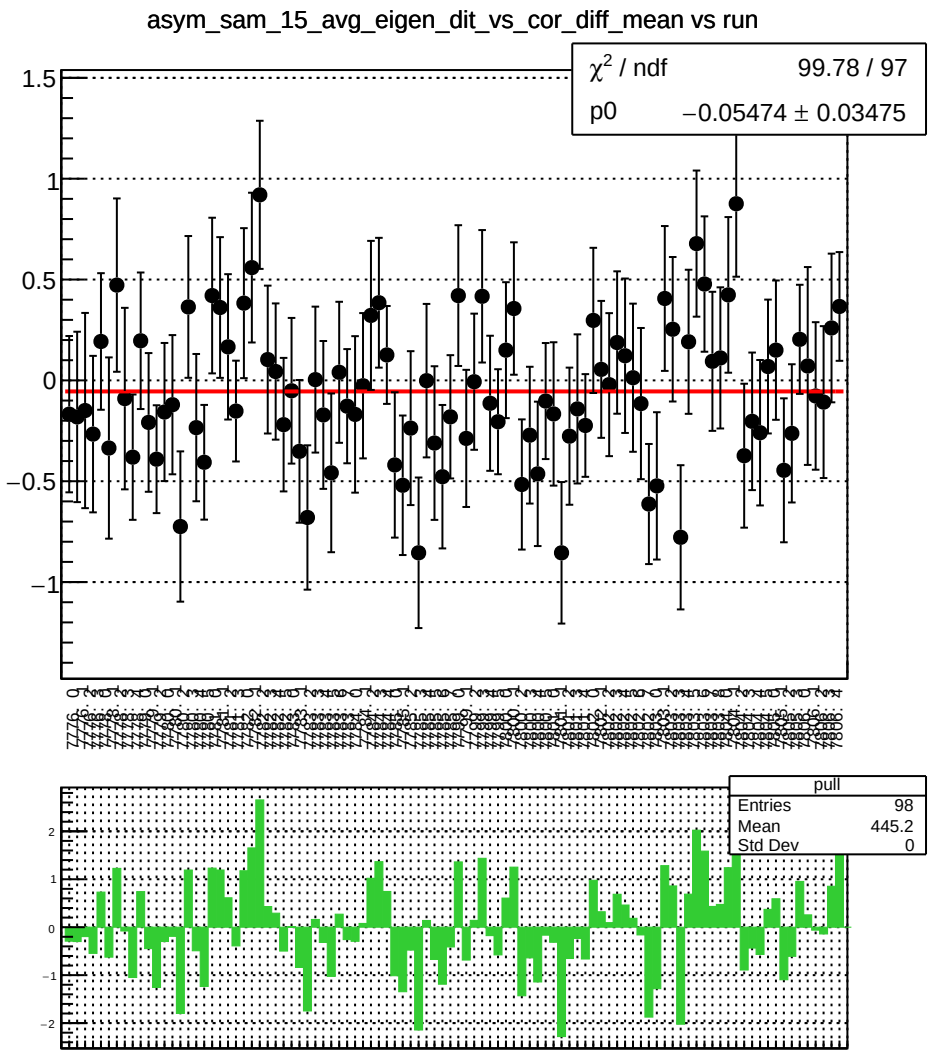

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.78 / 97
p0 −0.05474 ± 0.03475
pull
Entries 98
Mean 445.2
Std Dev 0

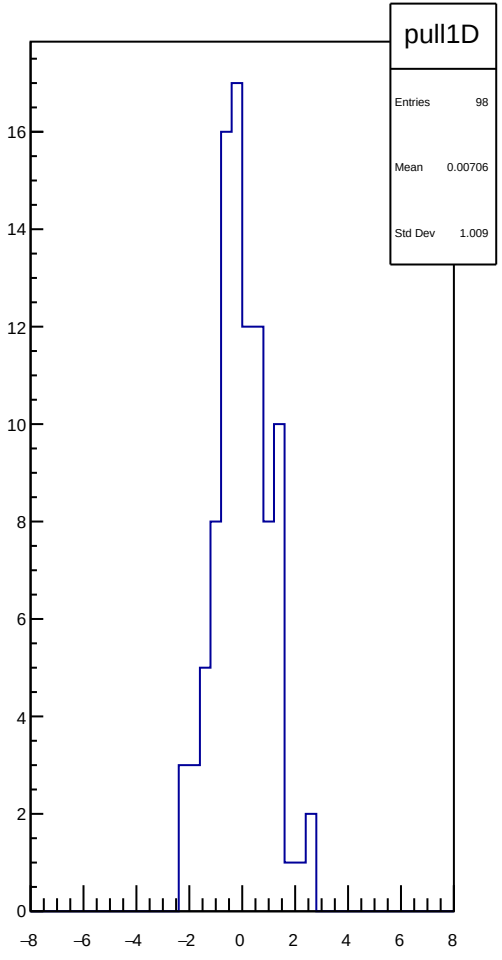

pull1D
Entries 98
Mean 0.007058
Std Dev 1.009

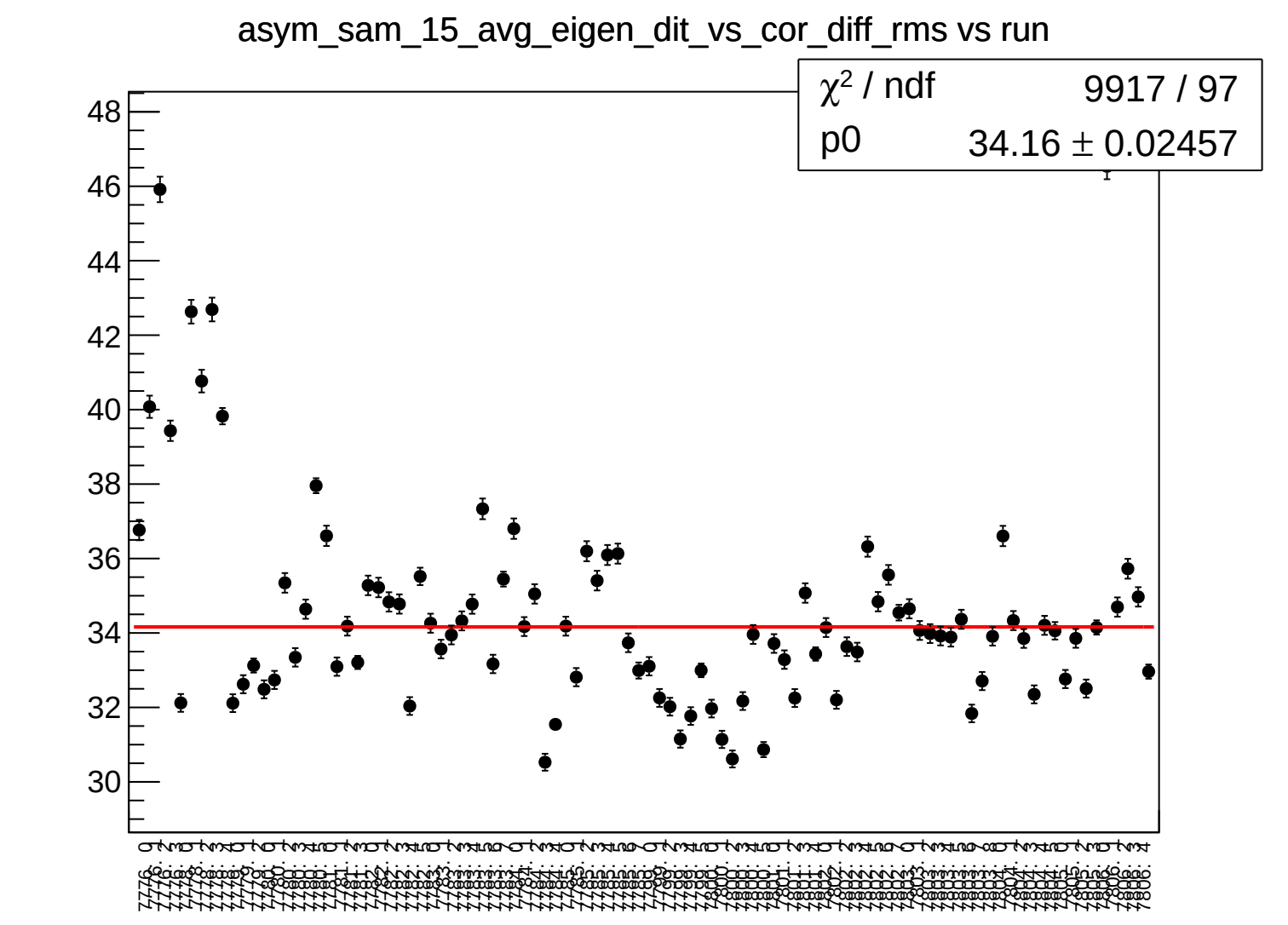

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9919 / 97
p0 34.16 ± 0.02457
48
46
44
42
40
38
36
34
32
30

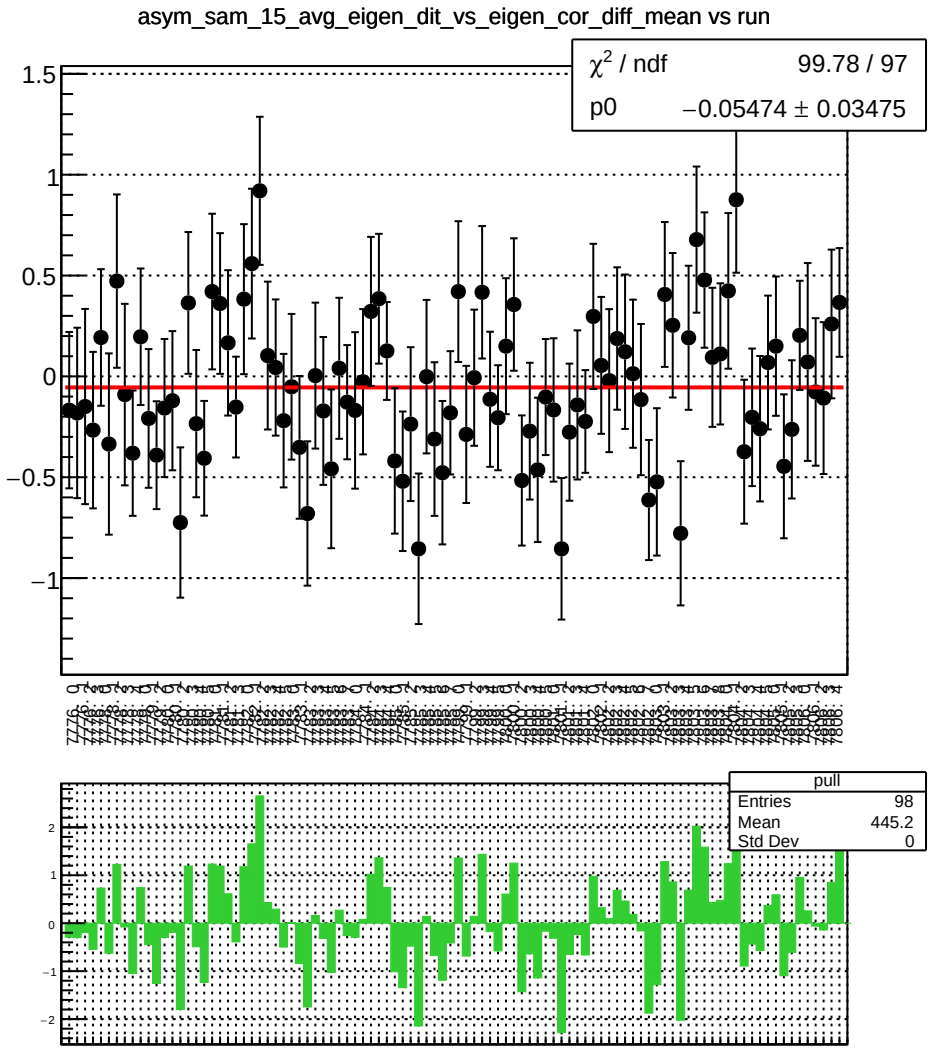

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.68 / 97
p0 −1.101e−06 ± 2.018e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 98
Mean 96.59
Std Dev 47.36
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.0357
Std Dev 0.9398
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

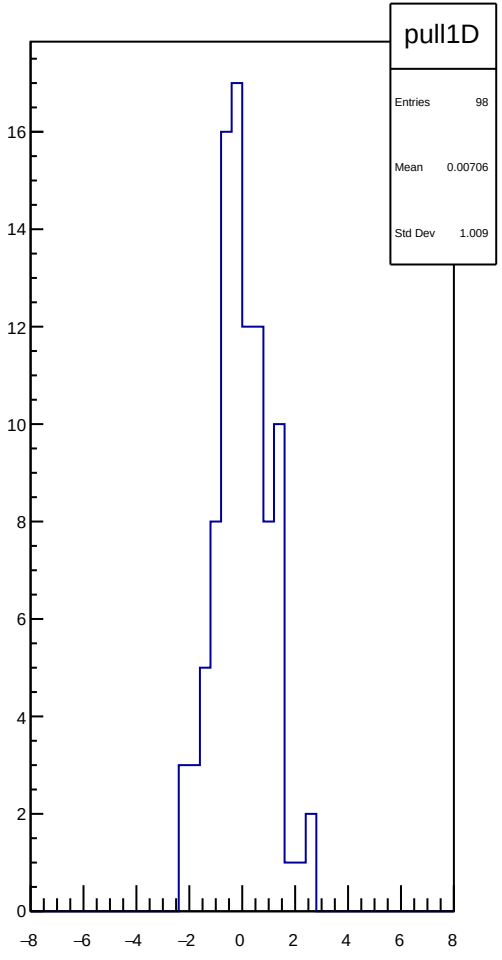

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.359e+05 / 97
p0 0.001809 ± 1.427e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

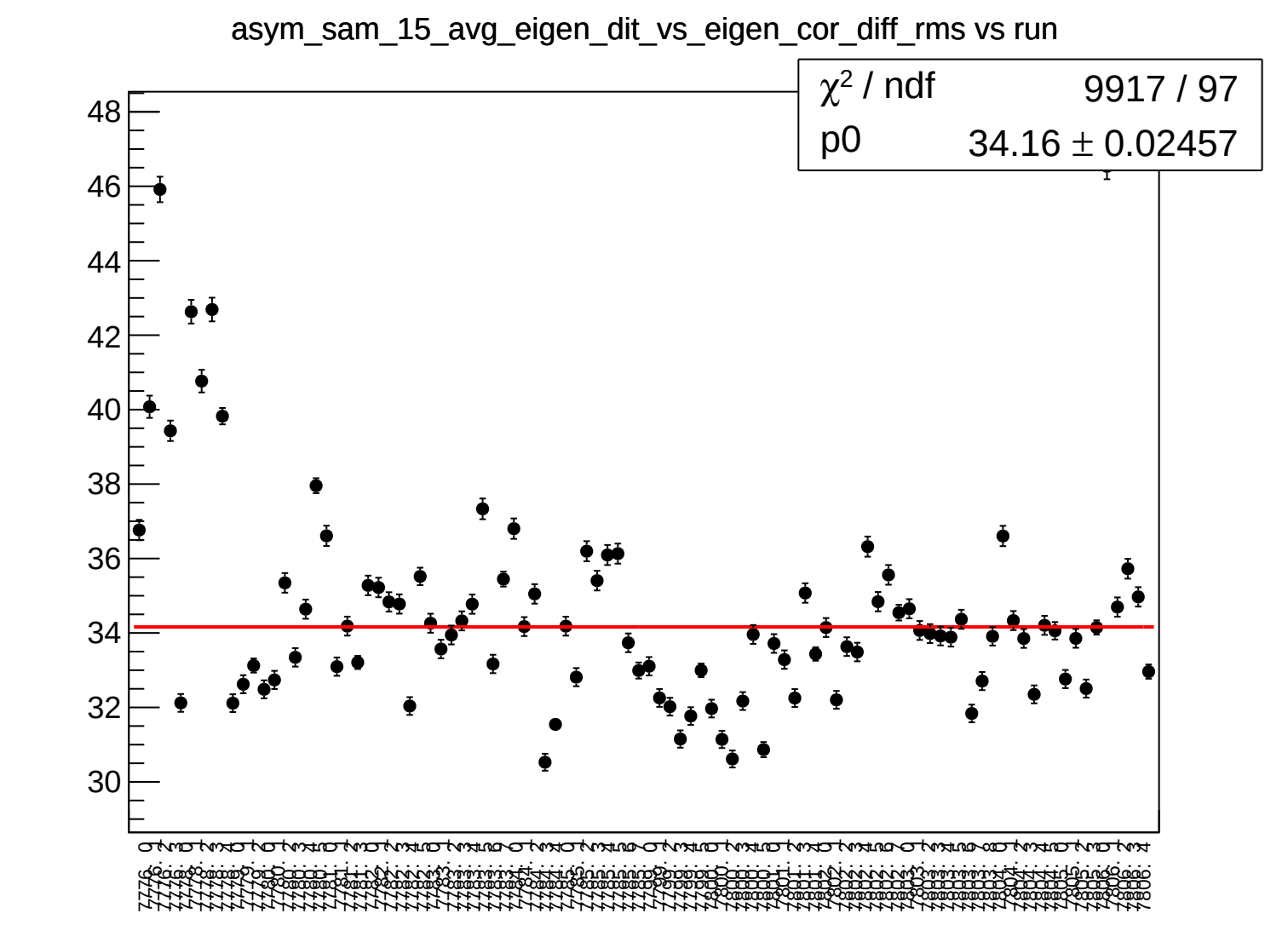

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.78 / 97
p0 −0.05474 ± 0.03475
pull
Entries 98
Mean 445.2
Std Dev 0

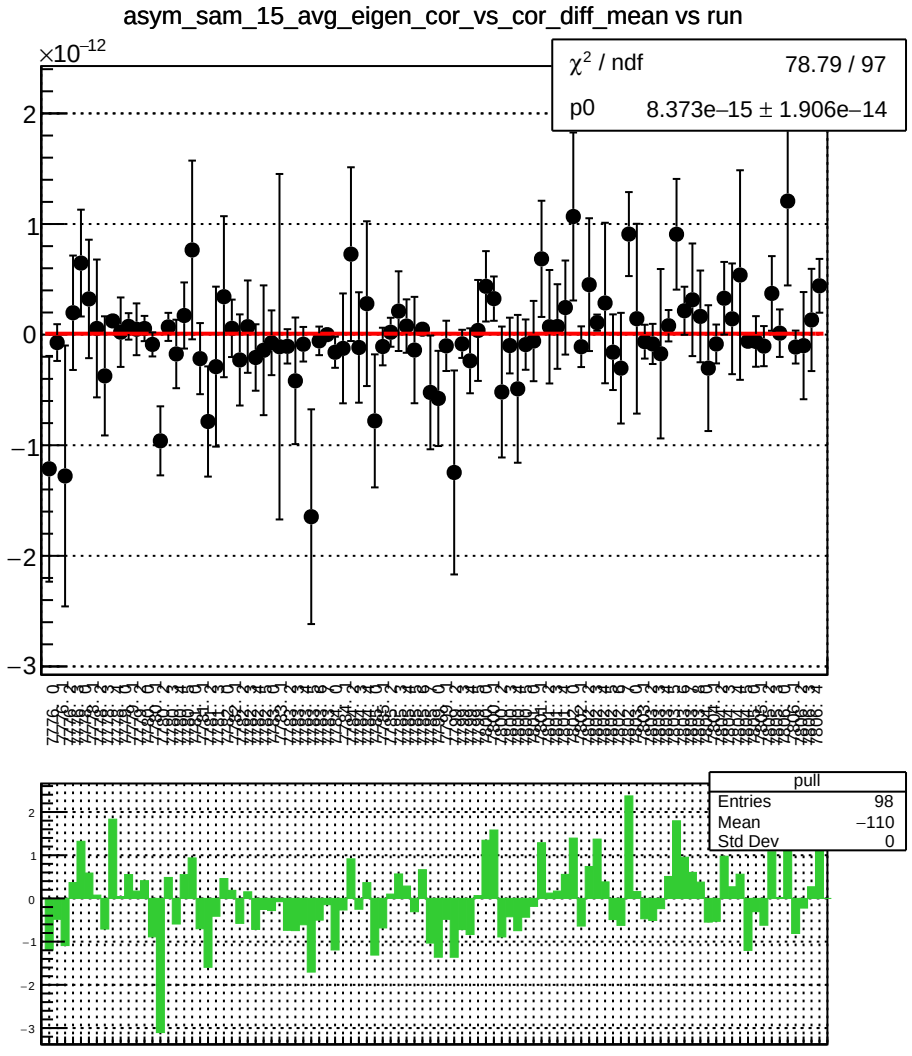

pull1D
Entries 98
Mean 0.00706
Std Dev 1.009

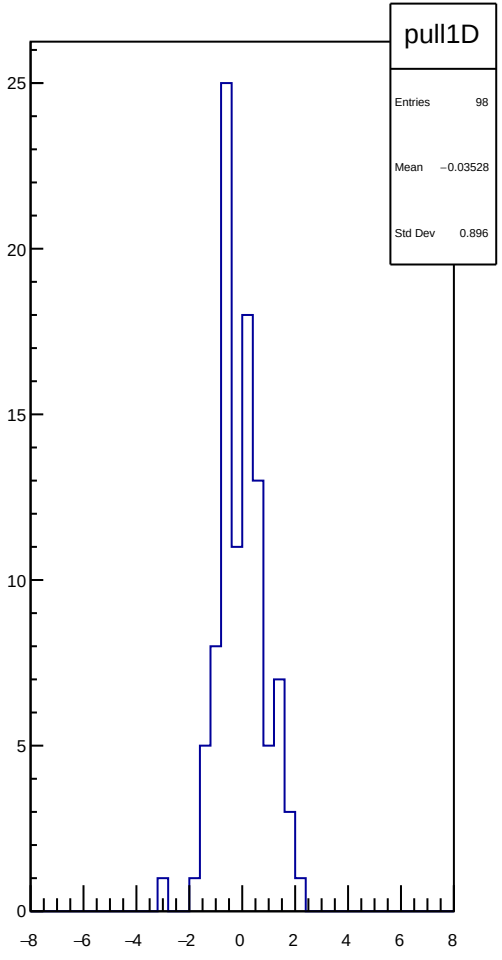

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9917 / 97
p0 34.16 ± 0.02457
48
46
44
42
40
38
36
34
32
30

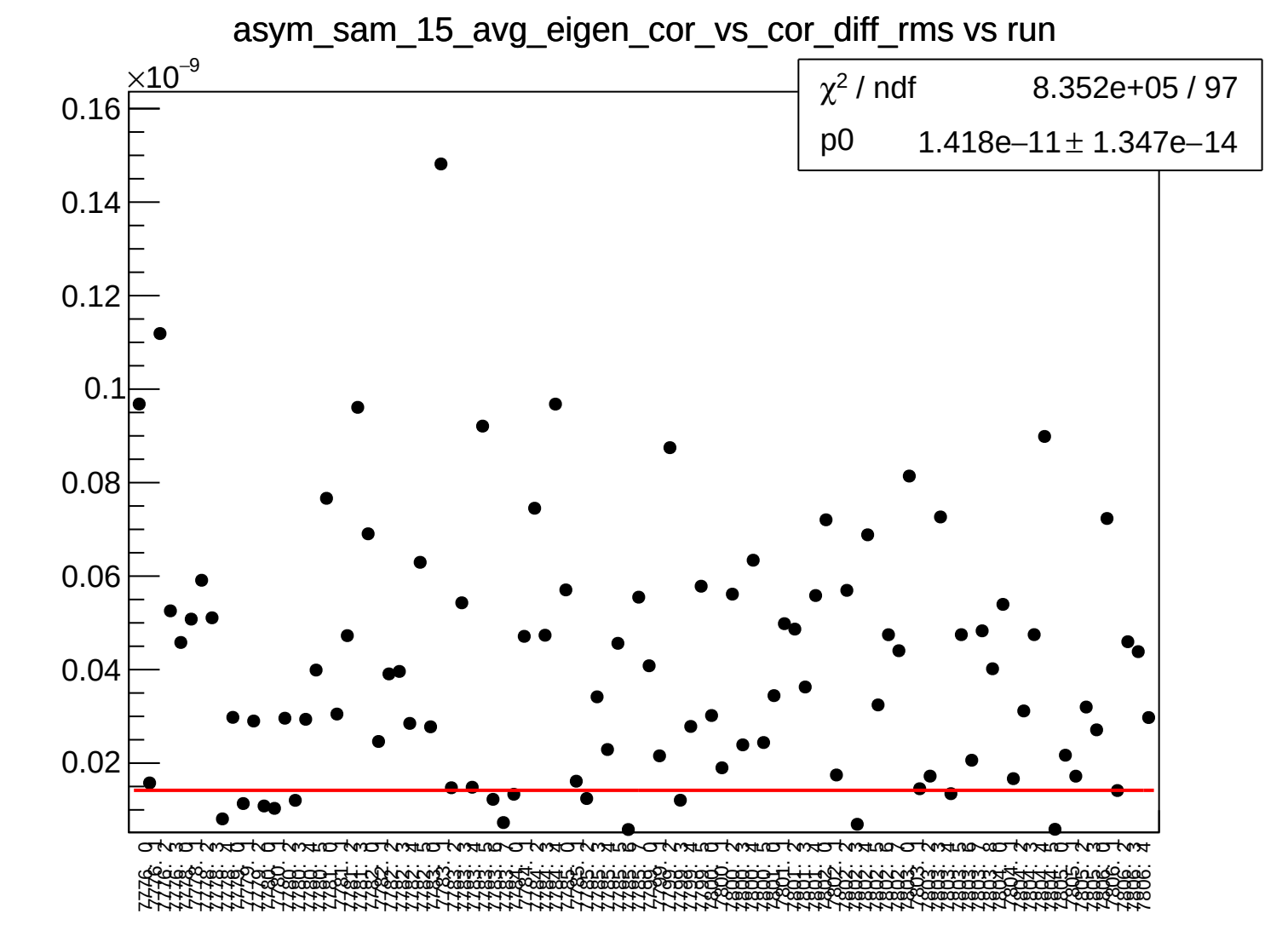

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.78 / 97
p0 −0.05474 ± 0.03475
pull
Entries 98
Mean 445.2
Std Dev 0

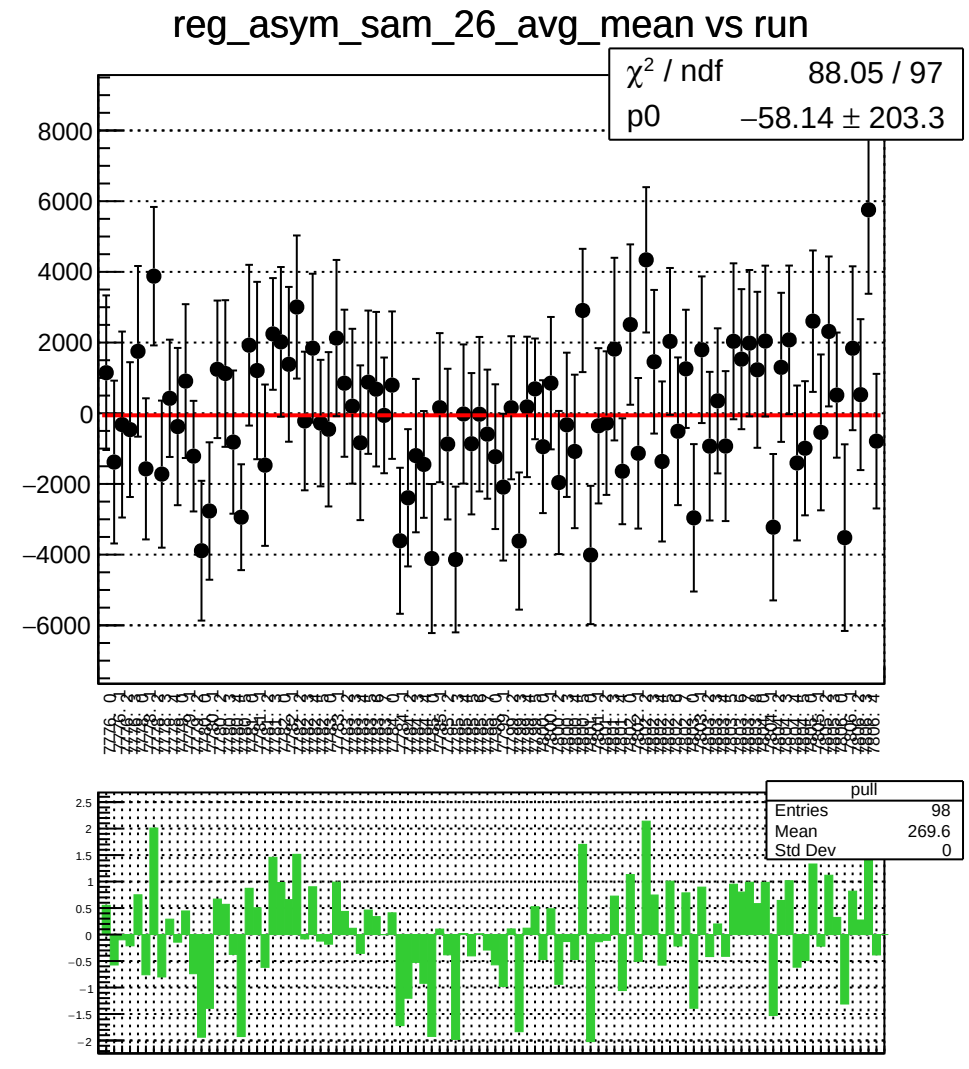

pull1D
Entries 98
Mean 0.00706
Std Dev 1.009

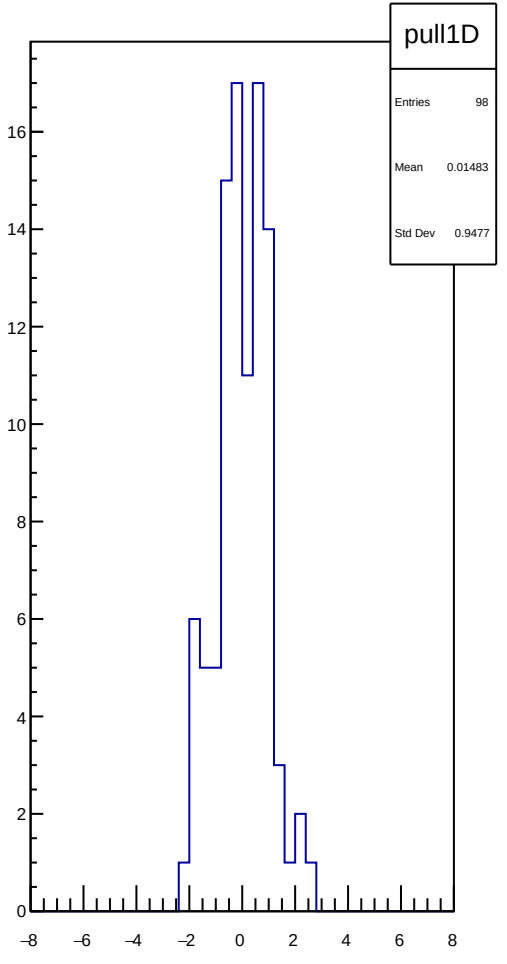

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9917 / 97
p0 34.16 ± 0.02457
48
46
44
42
40
38
36
34
32
30

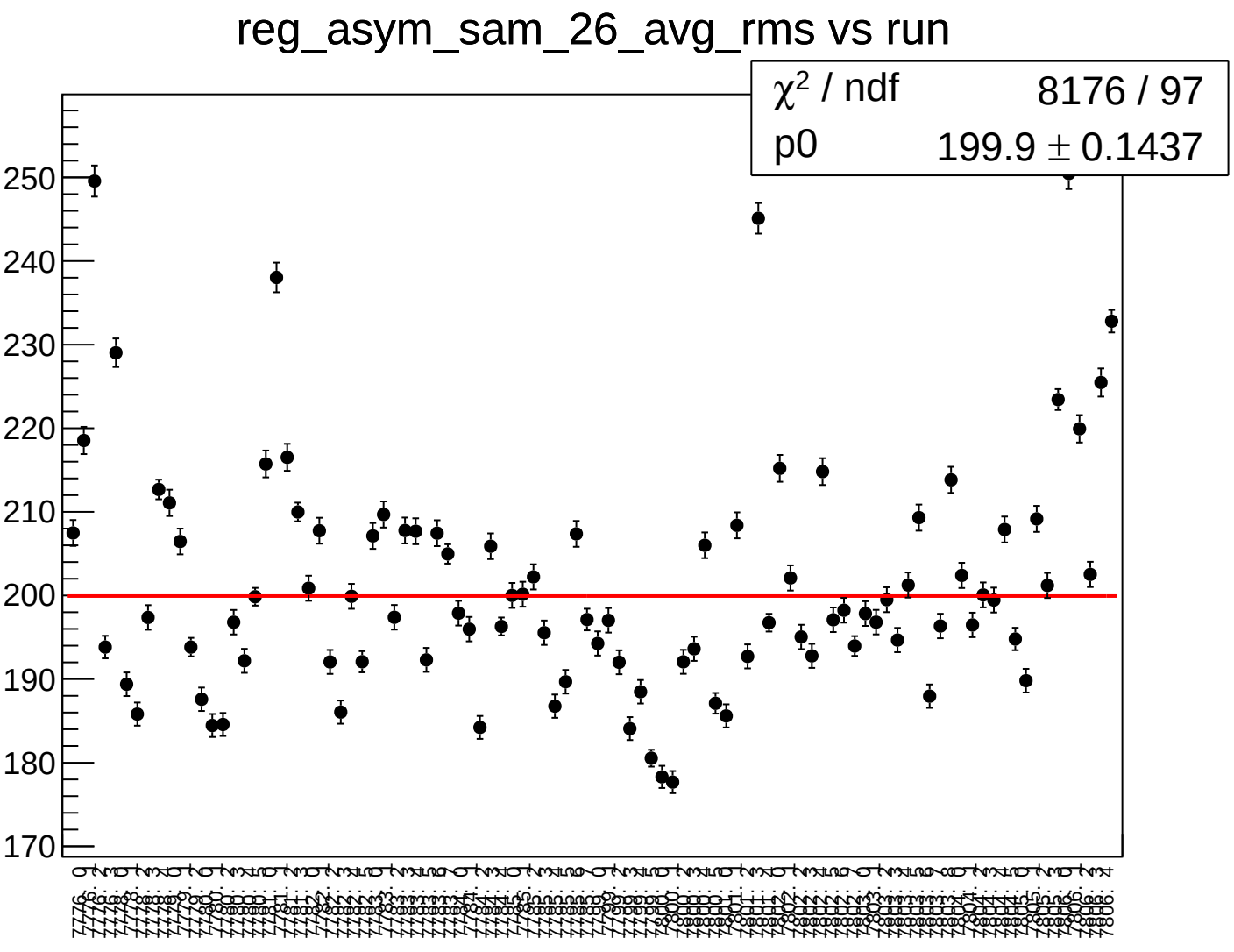

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 78.79 / 97
p0 8.373e−15 ± 1.906e−14
pull
Entries 98
Mean −110
Std Dev 0

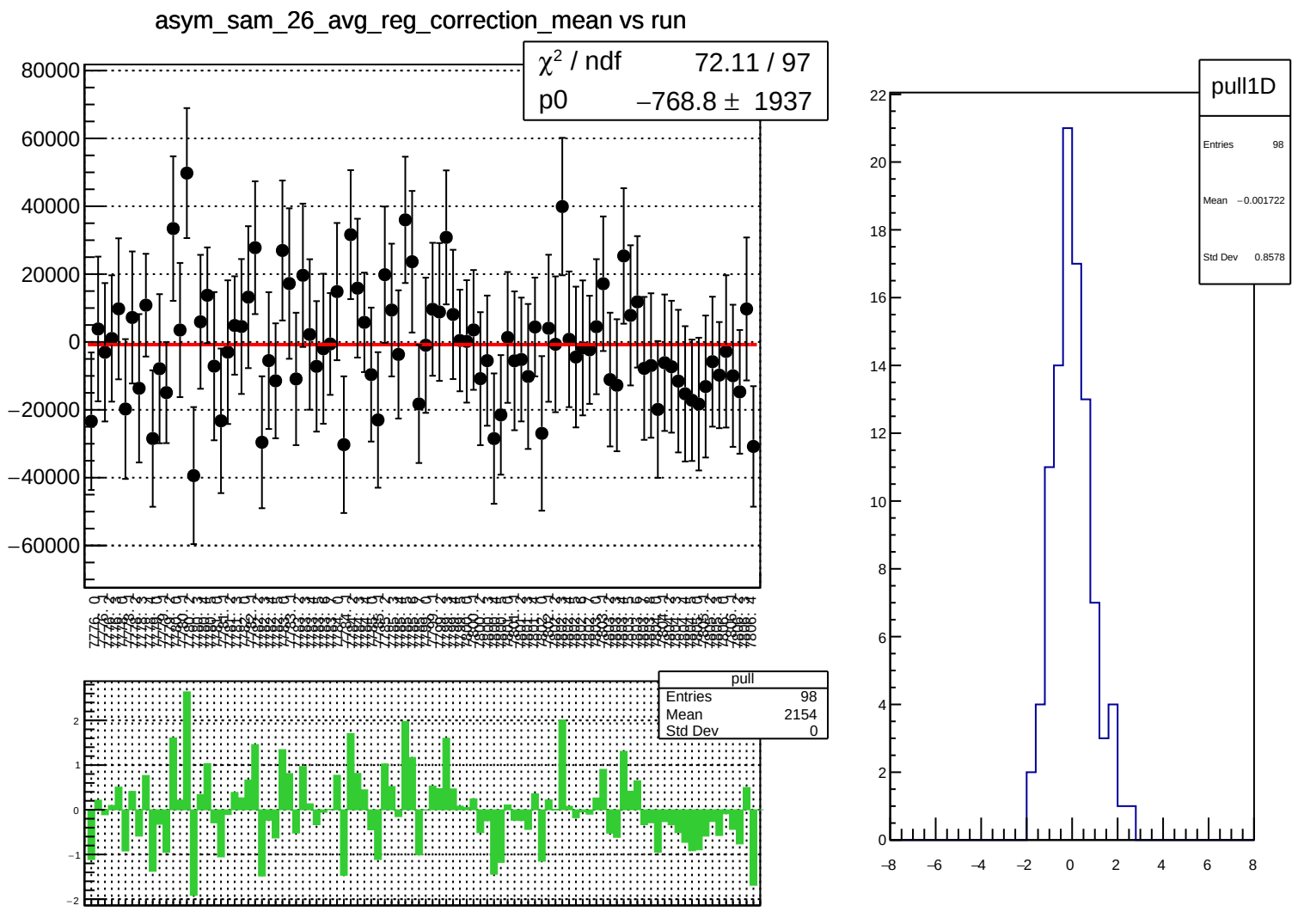

pull1D
Entries 98
Mean −0.03528
Std Dev 0.896

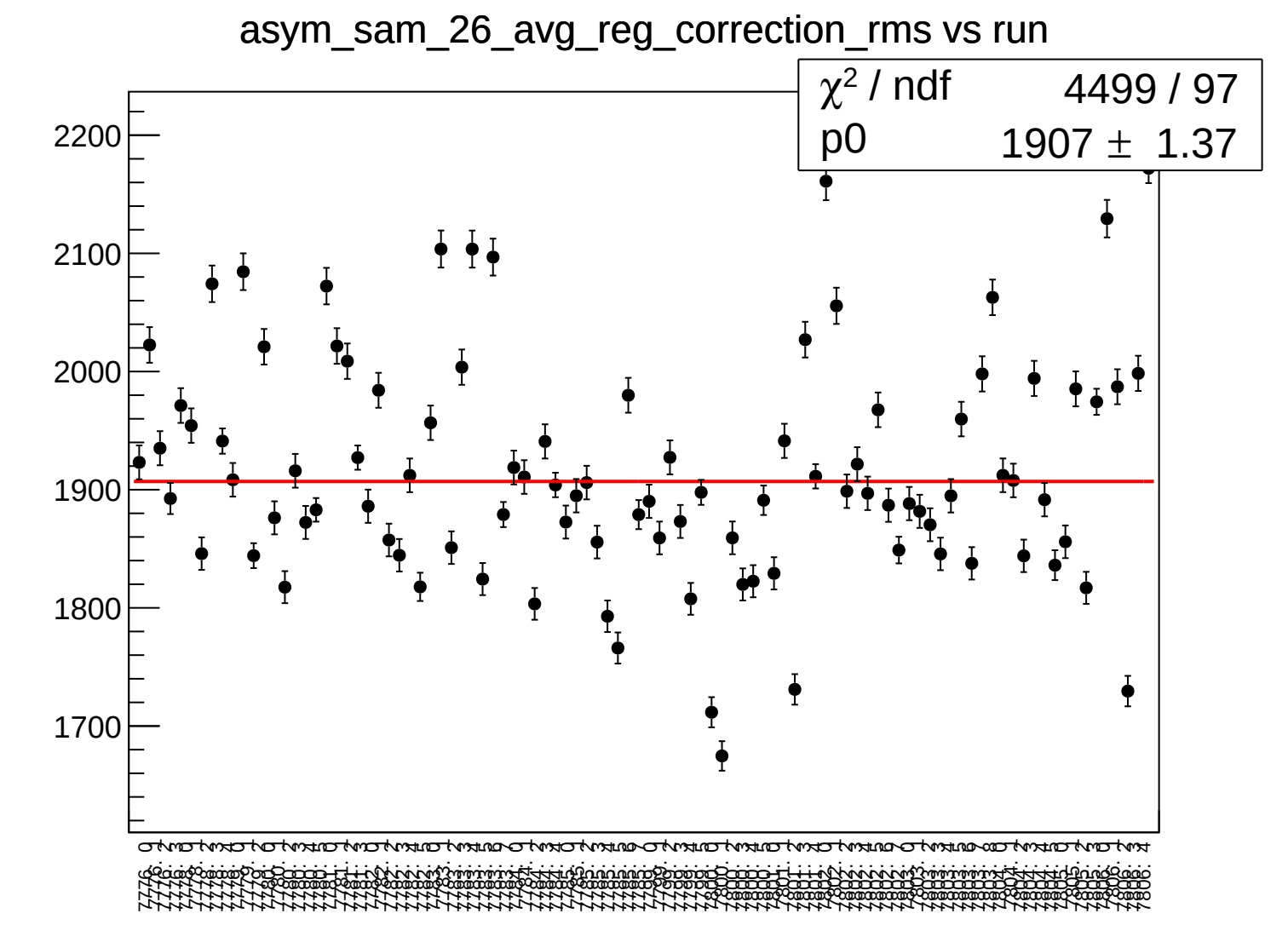

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 8.352e+05 / 97
p0 1.418e−11 ± 1.347e−14

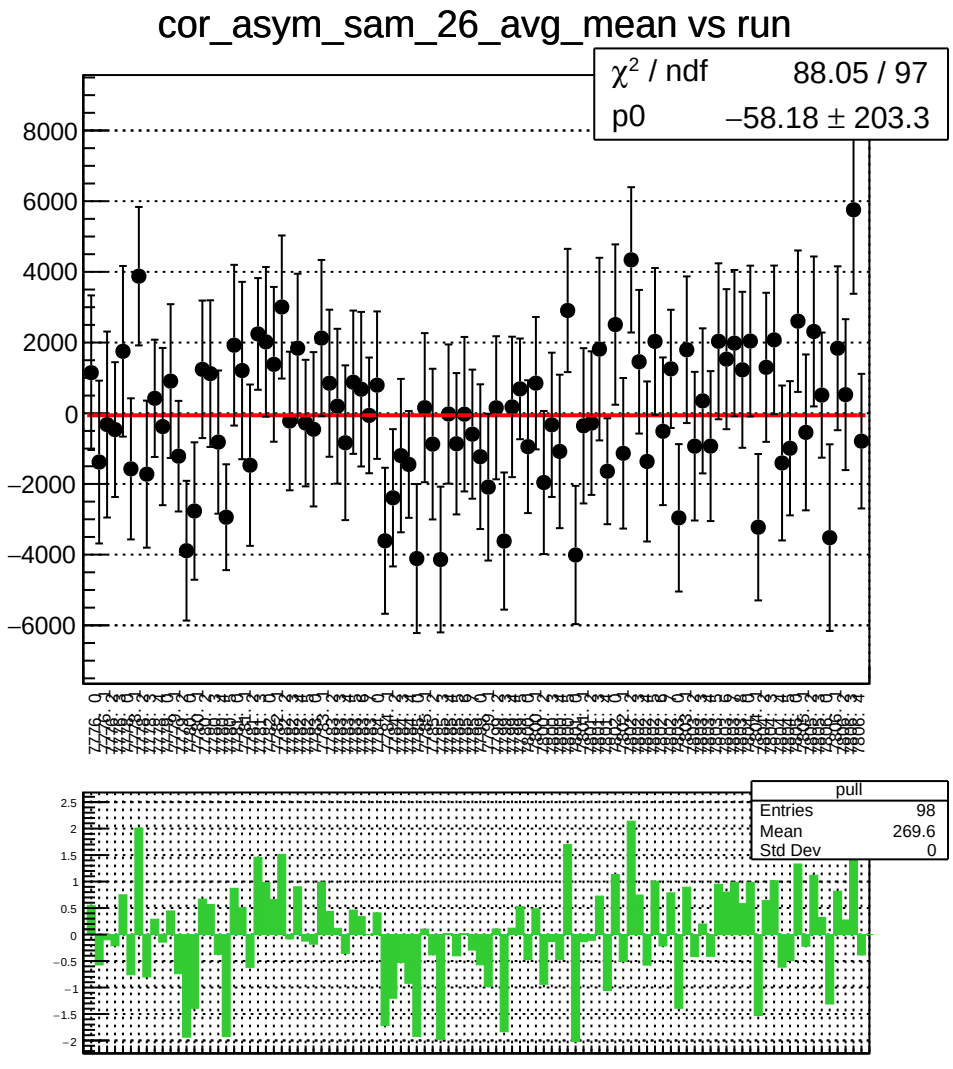

reg_asym_sam_26_avg_mean vs run
χ² / ndf 88.05 / 97
p0 −58.14 ± 203.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 269.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

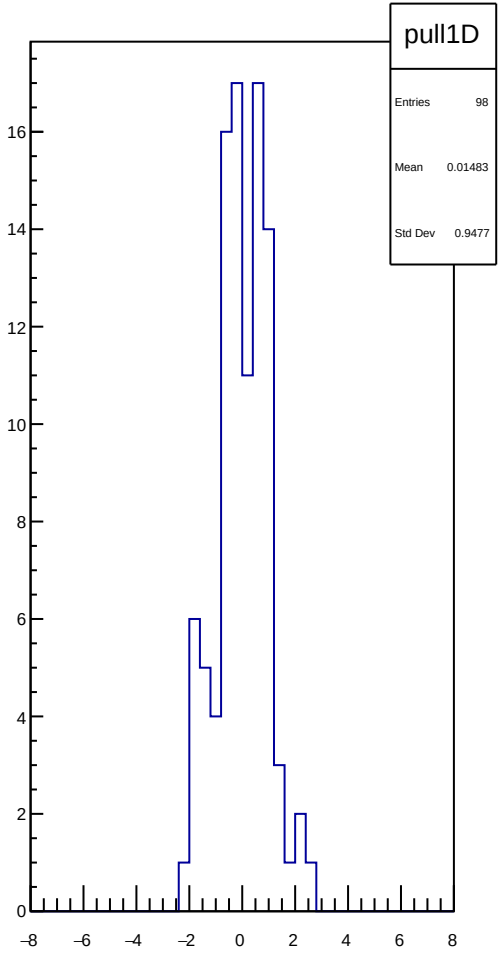

pull1D
Entries 98
Mean 0.01483
Std Dev 0.9477
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

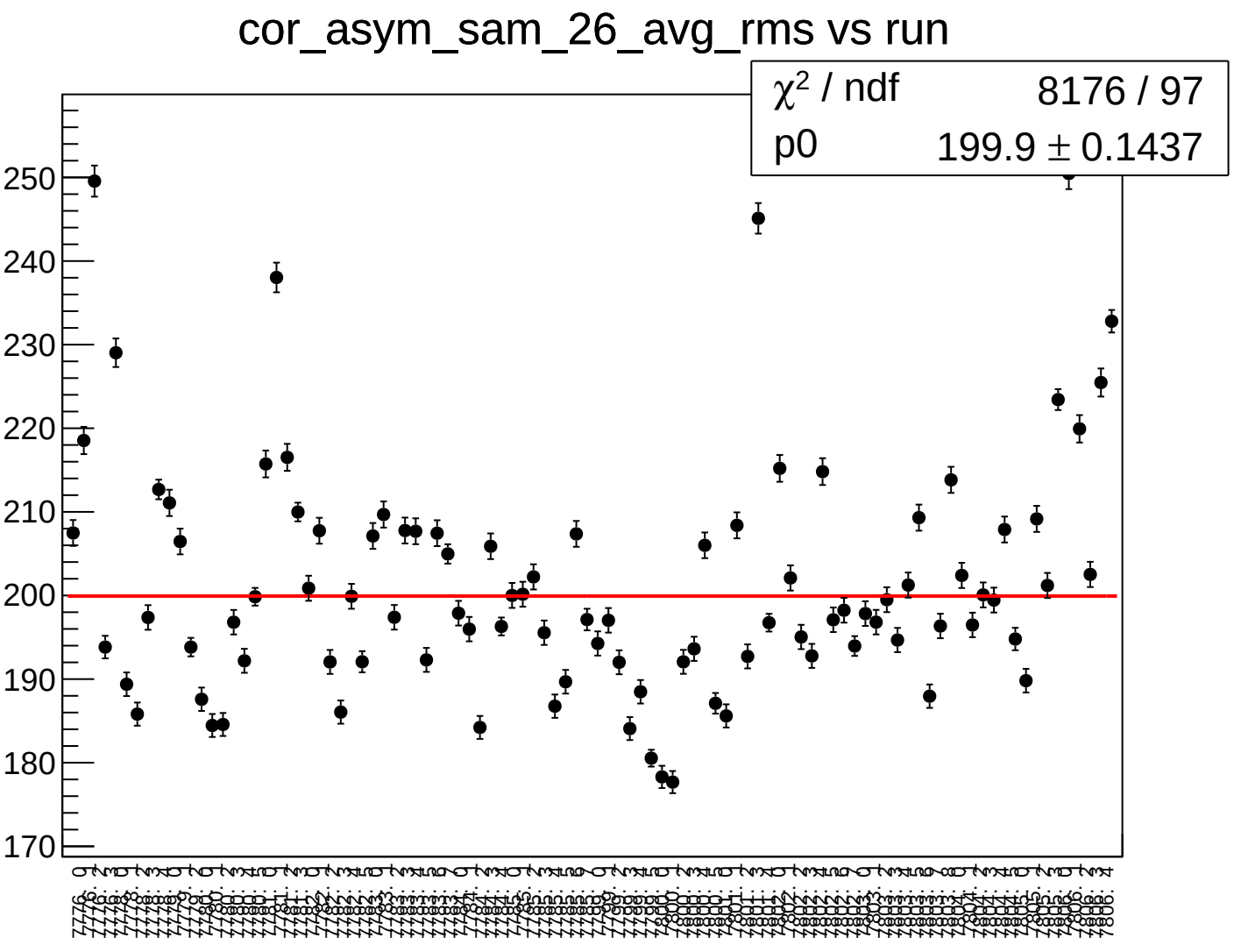

reg_asym_sam_26_avg_rms vs run
χ² / ndf 8176 / 97
p0 199.9 ± 0.1437
250
240
230
220
210
200
190
180
170

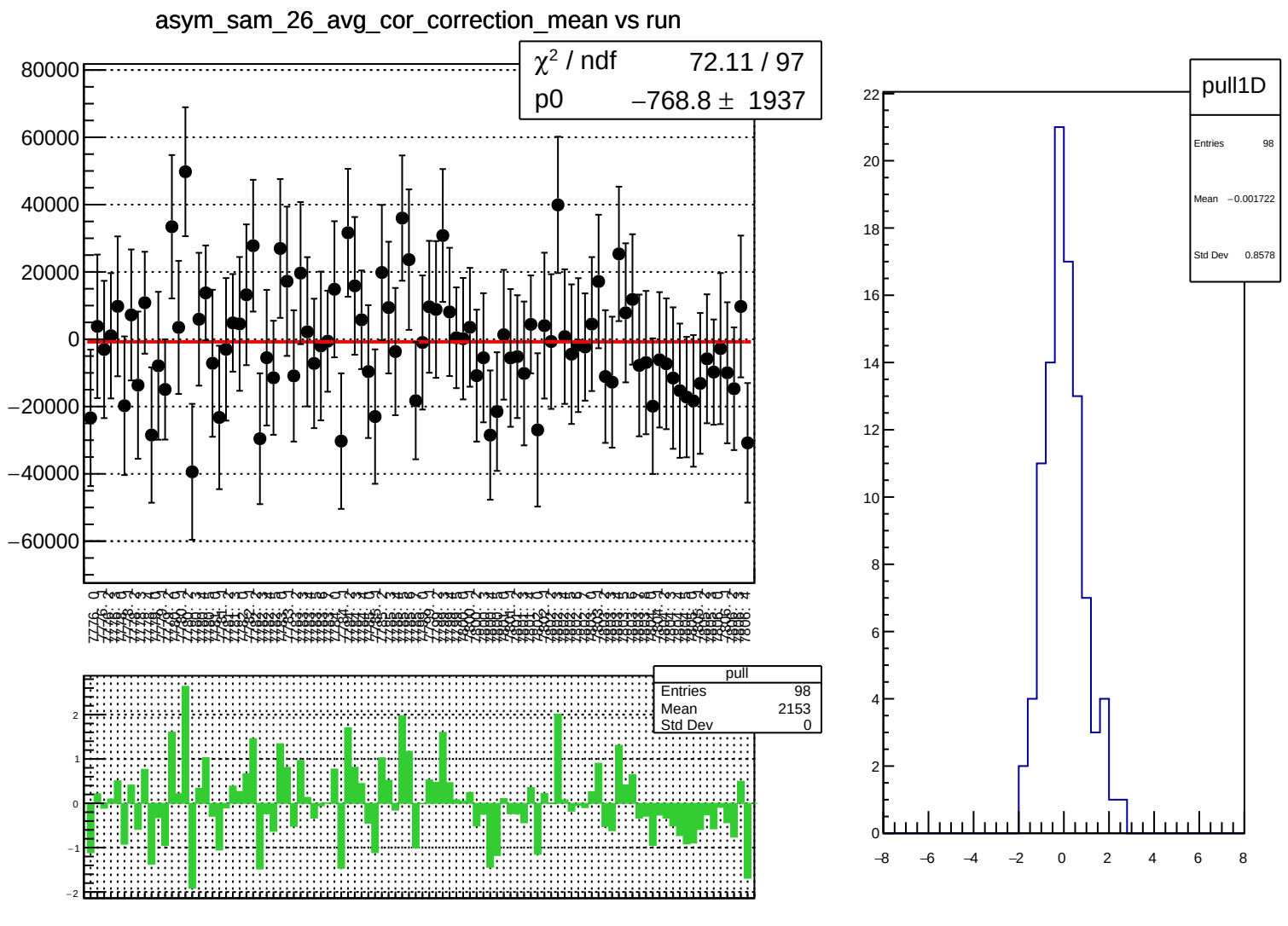

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 72.11 / 97
p0 −768.8 ± 1937
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 2154
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.001722
Std Dev 0.8578
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

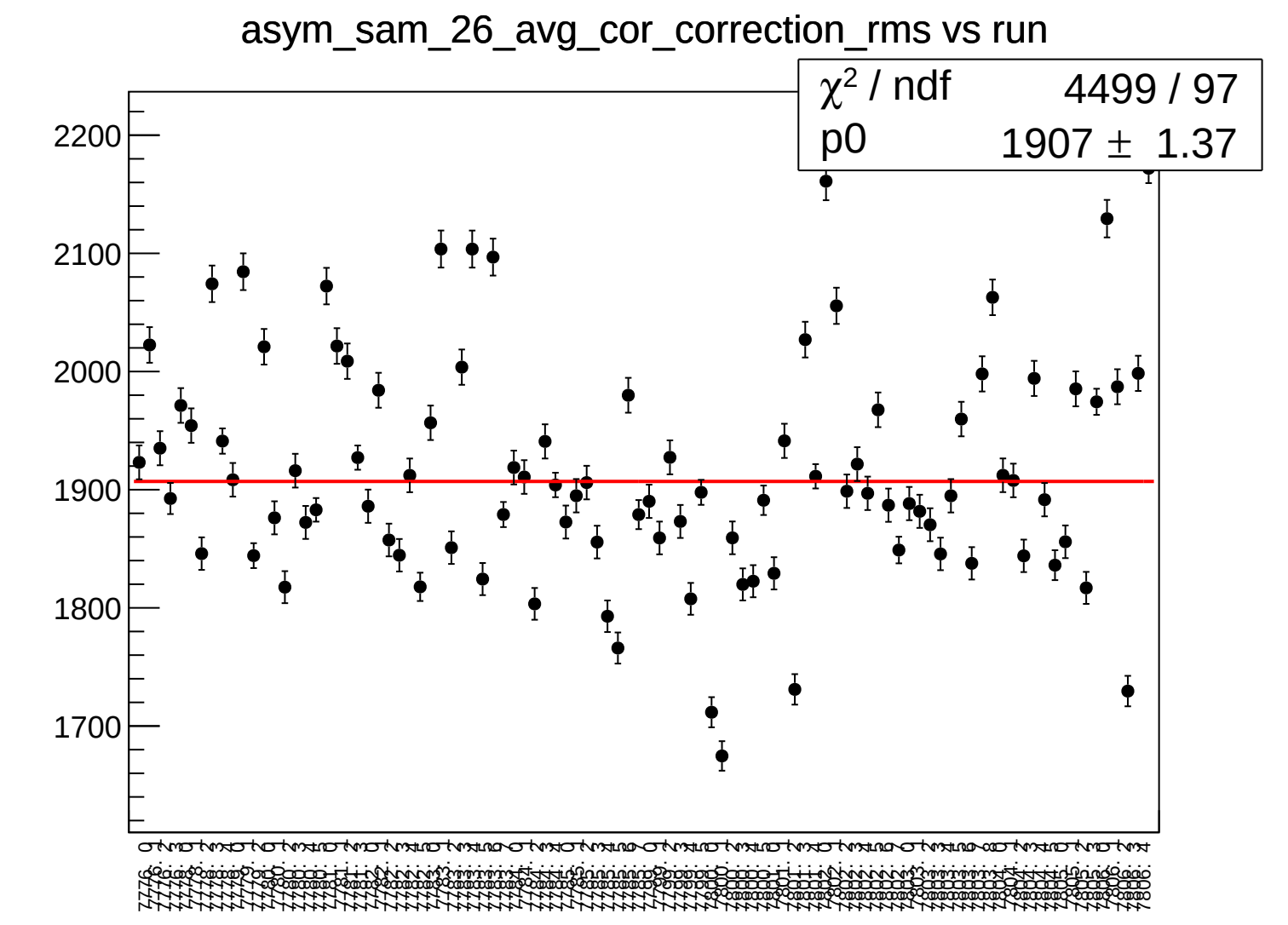

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 4499 / 97
p0 1907 ± 1.37
2200
2100
2000
1900
1800
1700

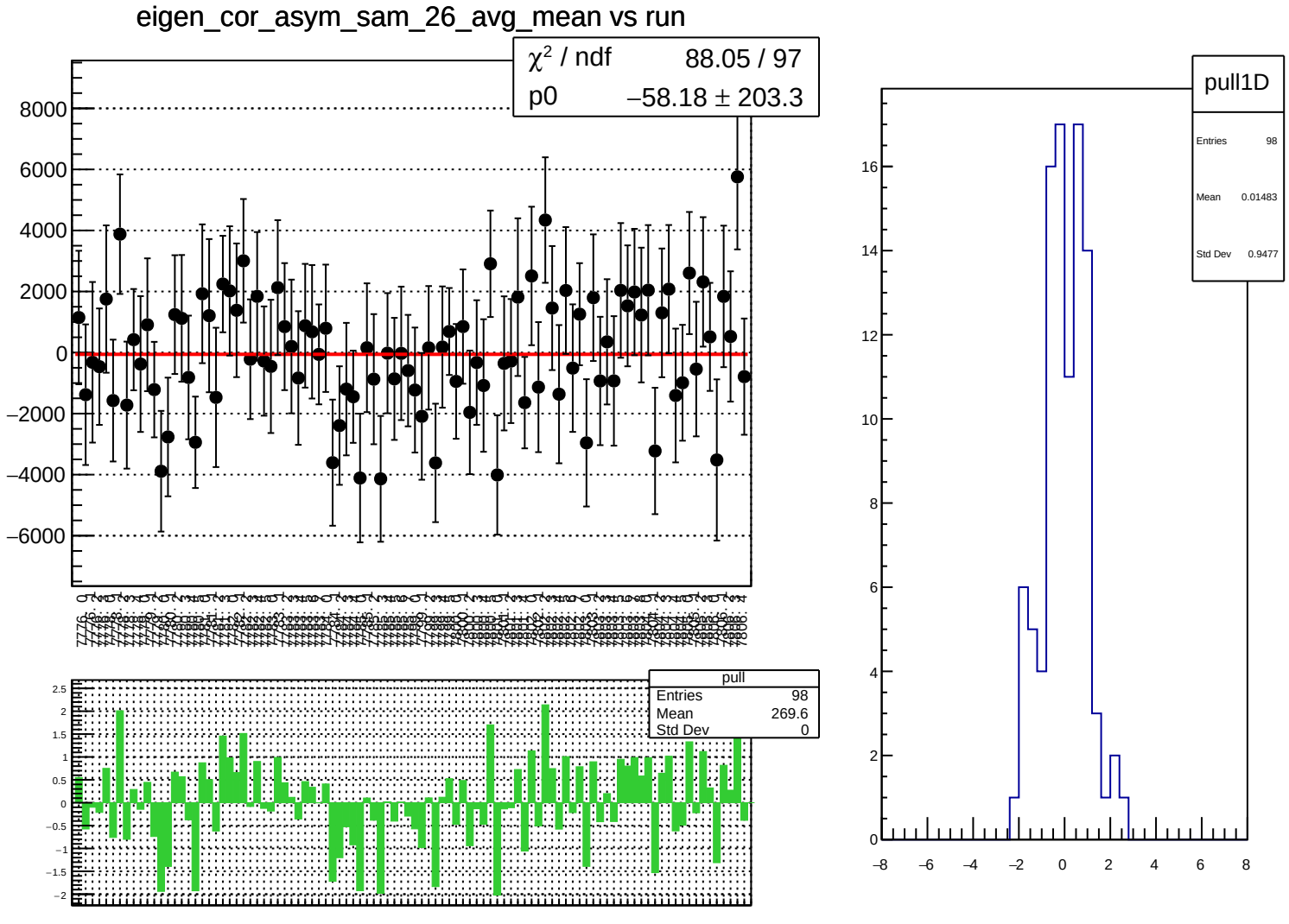

cor_asym_sam_26_avg_mean vs run
χ² / ndf 88.05 / 97
p0 −58.18 ± 203.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 269.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

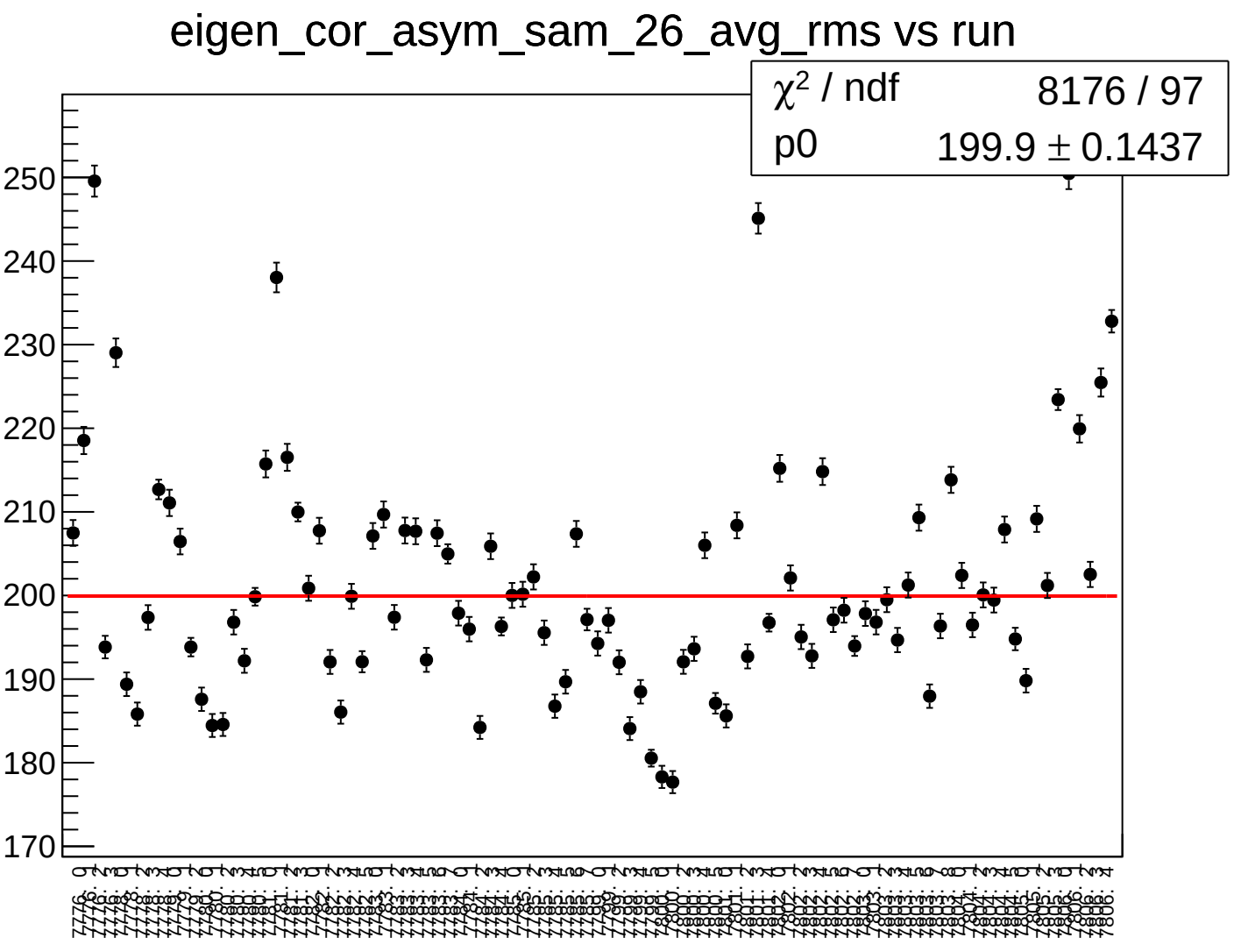

pull1D
Entries 98
Mean 0.01483
Std Dev 0.9477
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

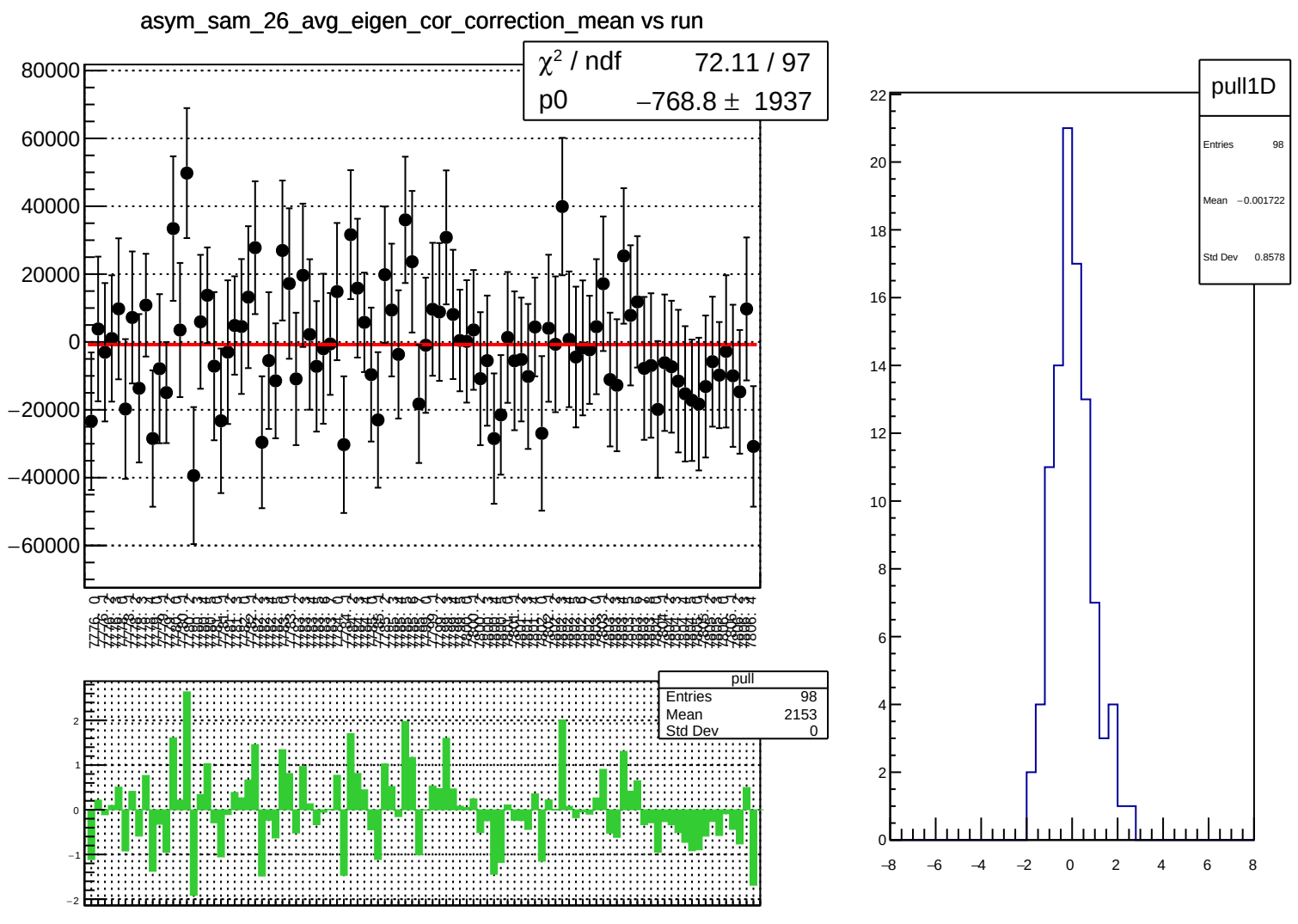

cor_asym_sam_26_avg_rms vs run
χ² / ndf 8176 / 97
p0 199.9 ± 0.1437
250
240
230
220
210
200
190
180
170

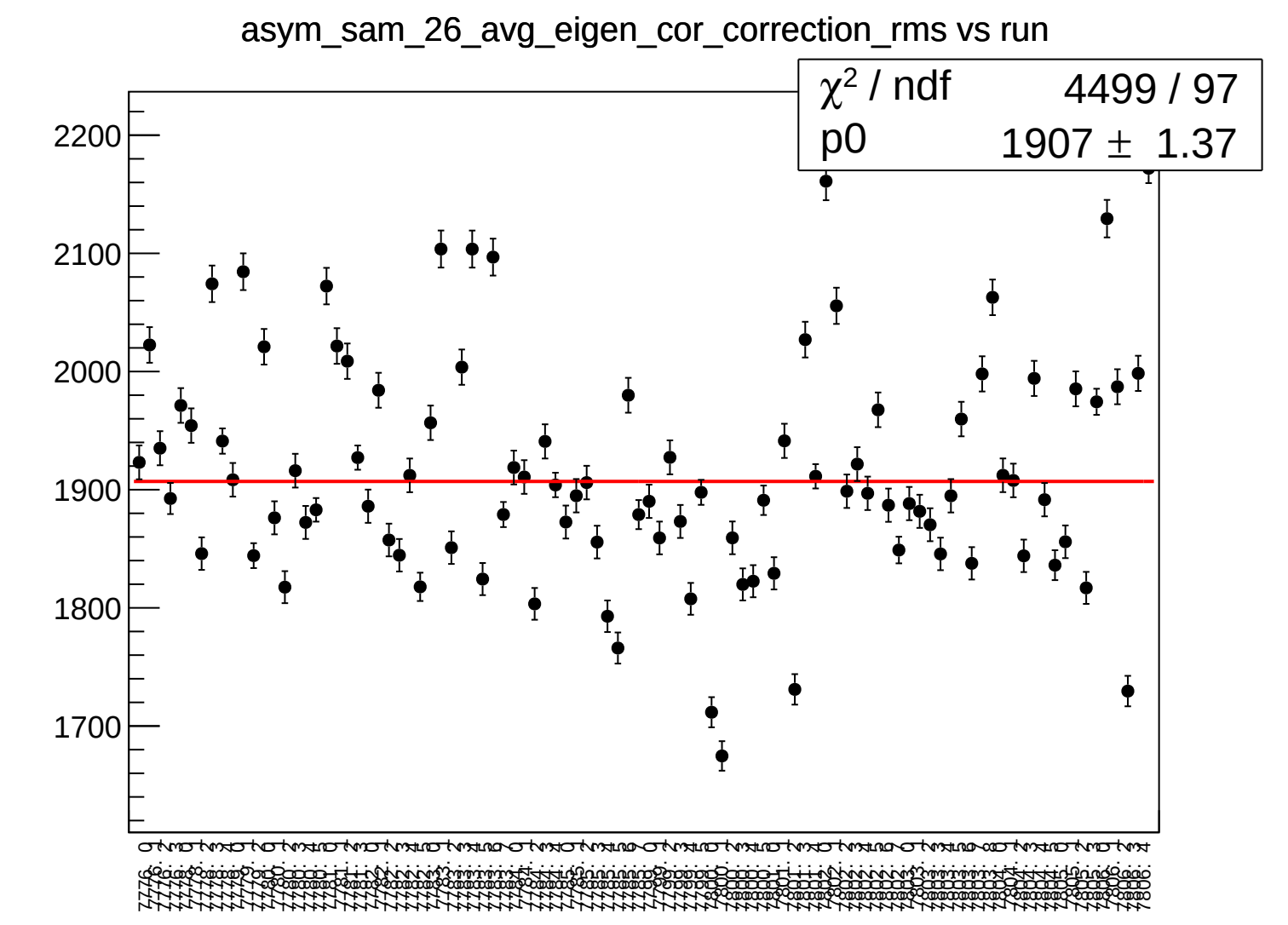

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 72.11 / 97
p0 −768.8 ± 1937
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 2153
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.001722
Std Dev 0.8578
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

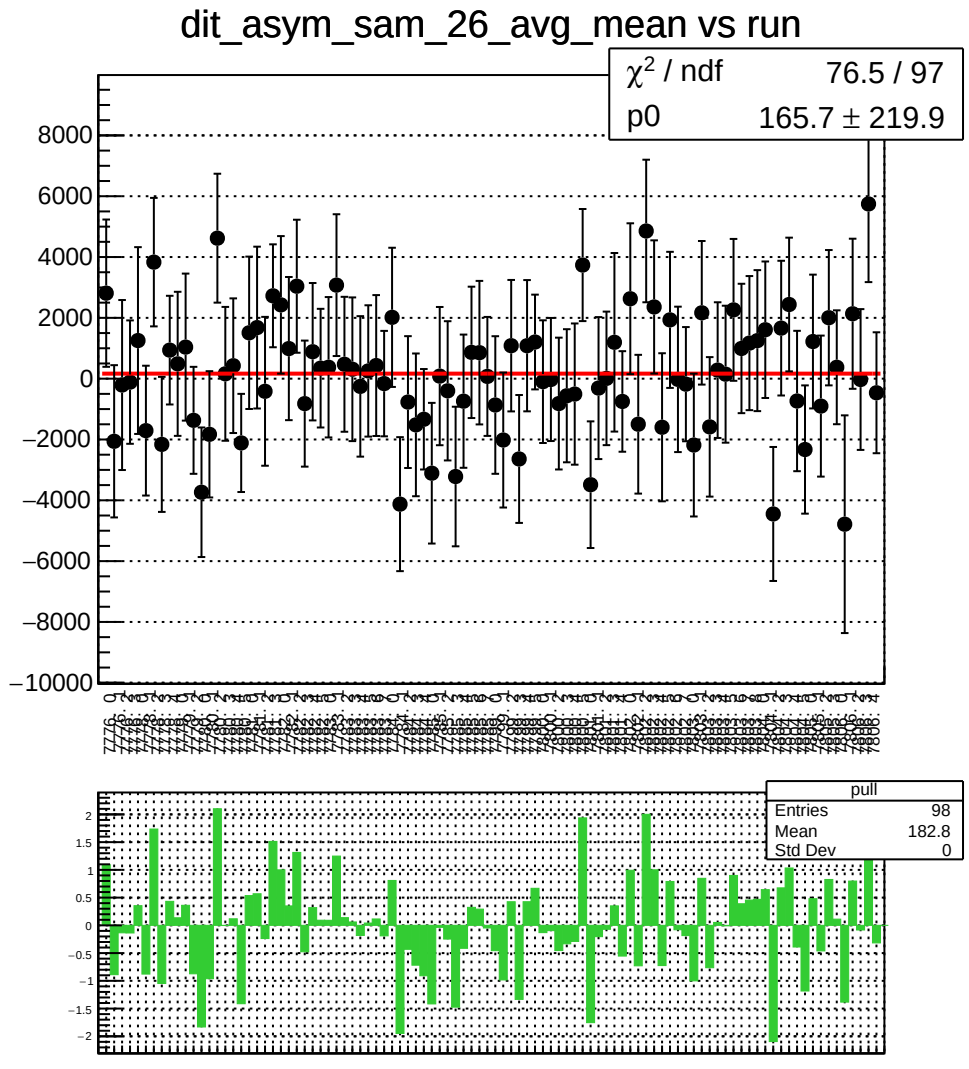

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 4499 / 97
p0 1907 ± 1.37
2200
2100
2000
1900
1800
1700

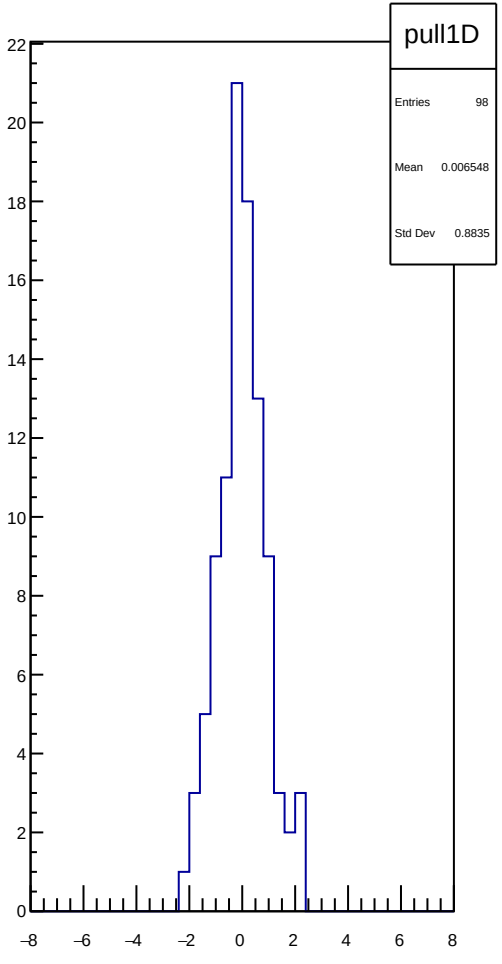

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 88.05 / 97
p0 −58.18 ± 203.3
pull
Entries 98
Mean 269.6
Std Dev 0
pull1D
Entries 98
Mean 0.01483
Std Dev 0.9477

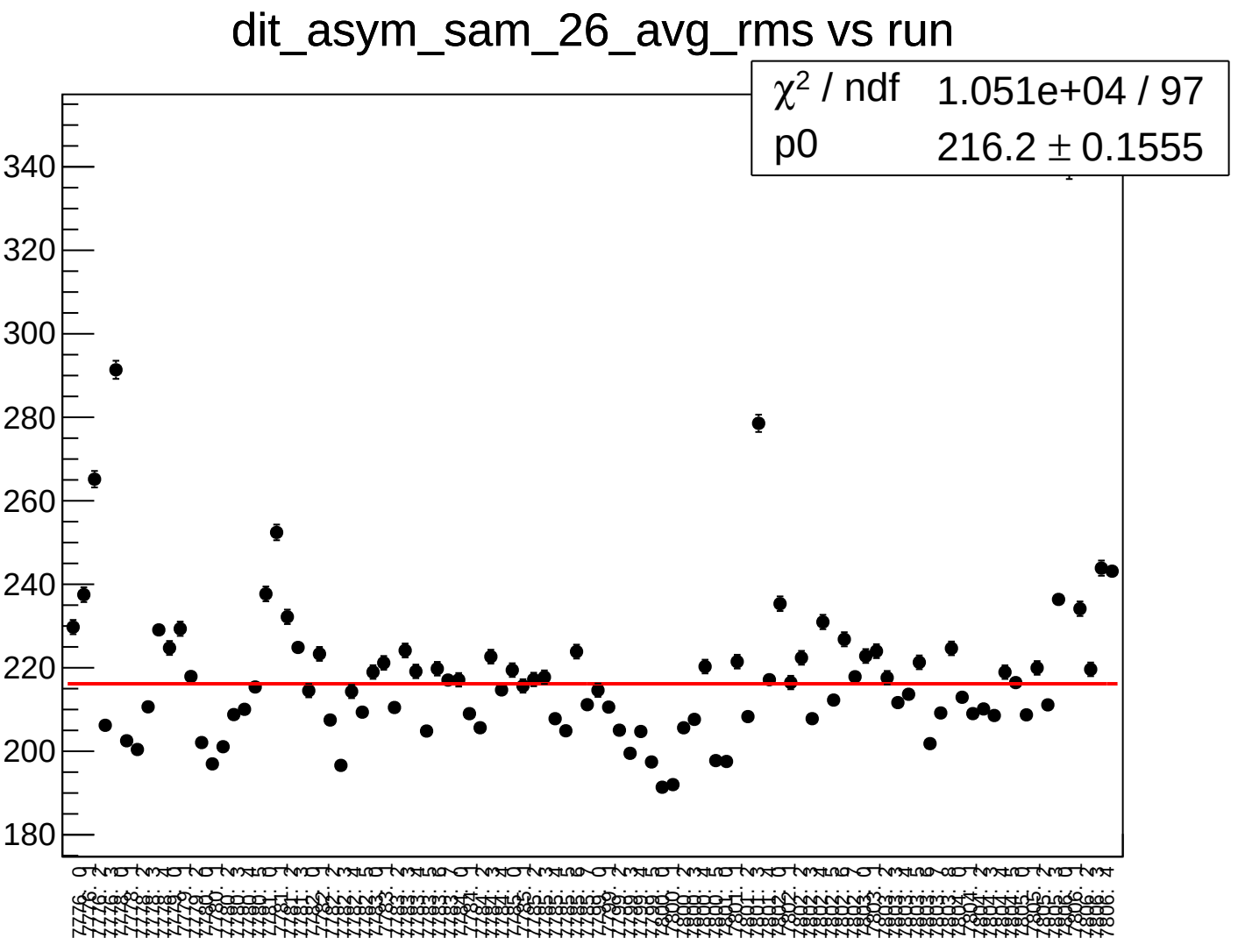

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 8176 / 97
p0 199.9 ± 0.1437
250
240
230
220
210
200
190
180
170

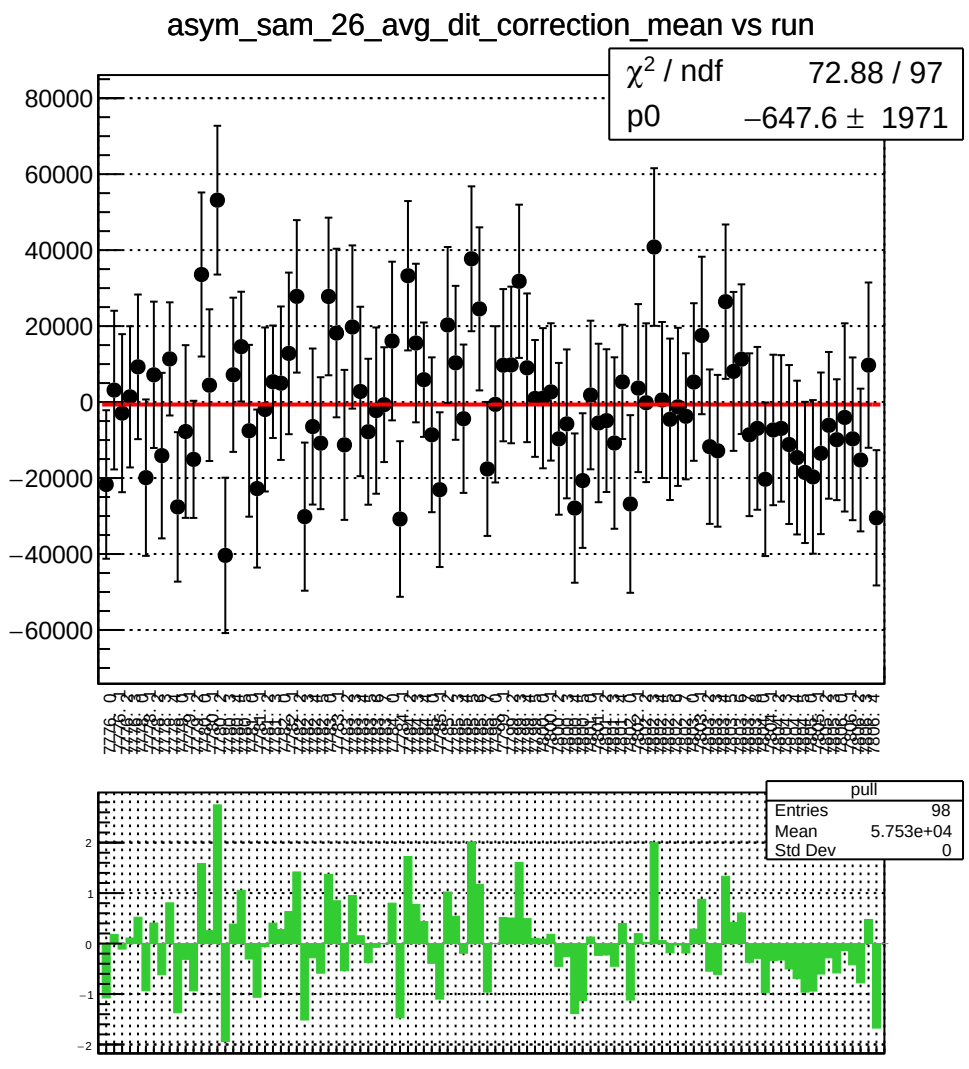

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.11 / 97
p0 −768.8 ± 1937
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 2153
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.001722
Std Dev 0.8578
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

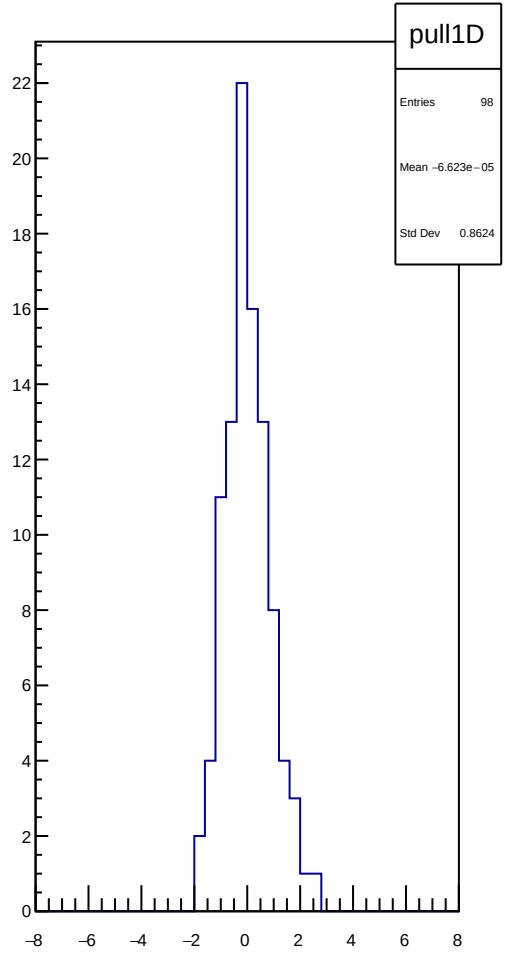

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 4499 / 97
p0 1907 ± 1.37
2200
2100
2000
1900
1800
1700

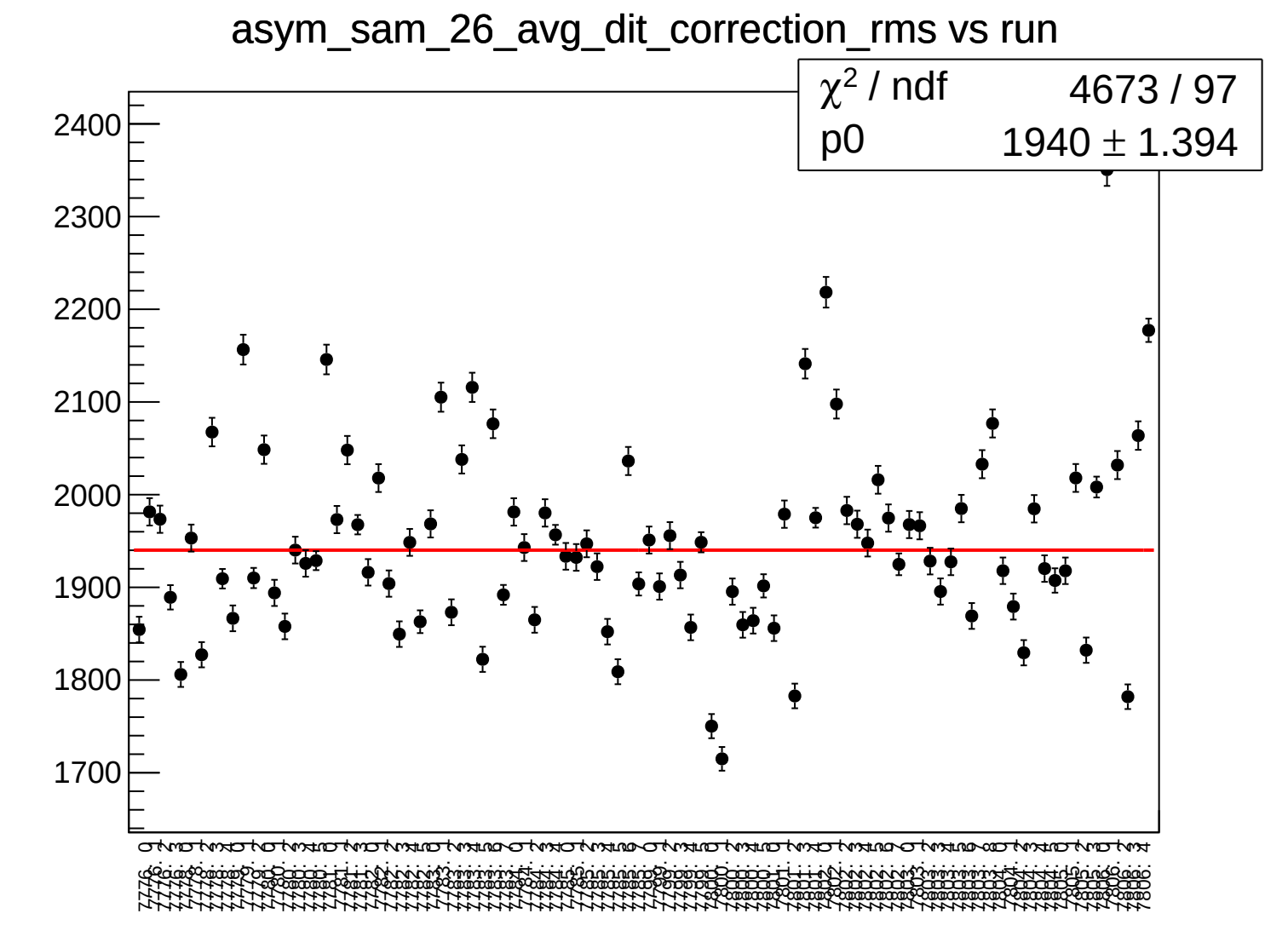

dit_asym_sam_26_avg_mean vs run
χ² / ndf 76.5 / 97
p0 165.7 ± 219.9
pull
Entries 98
Mean 182.8
Std Dev 0

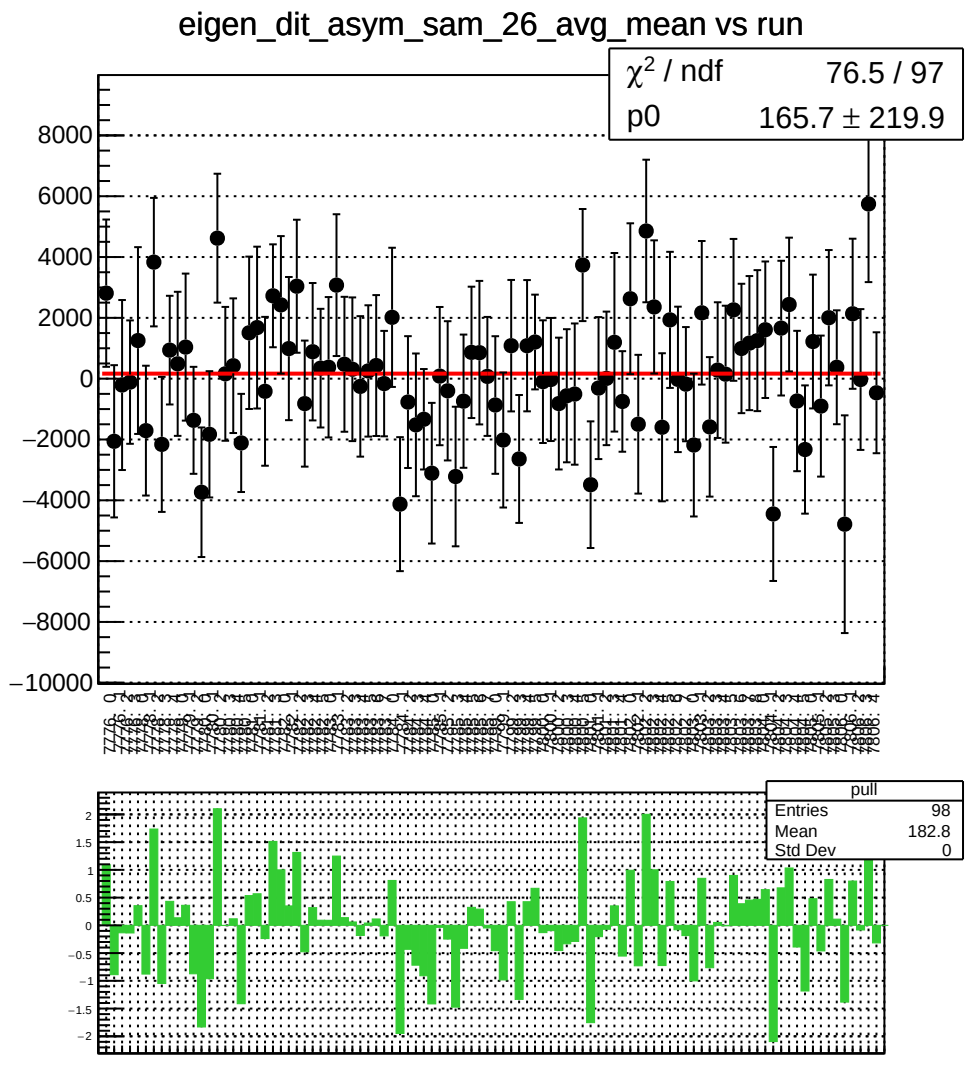

pull1D
Entries 98
Mean 0.006548
Std Dev 0.8835

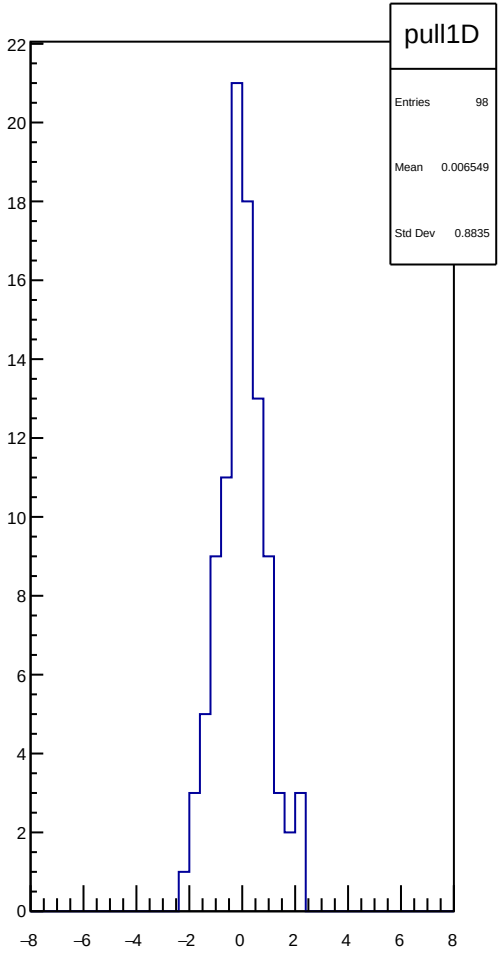

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.051e+04 / 97
p0 216.2 ± 0.1555
340
320
300
280
260
240
220
200
180

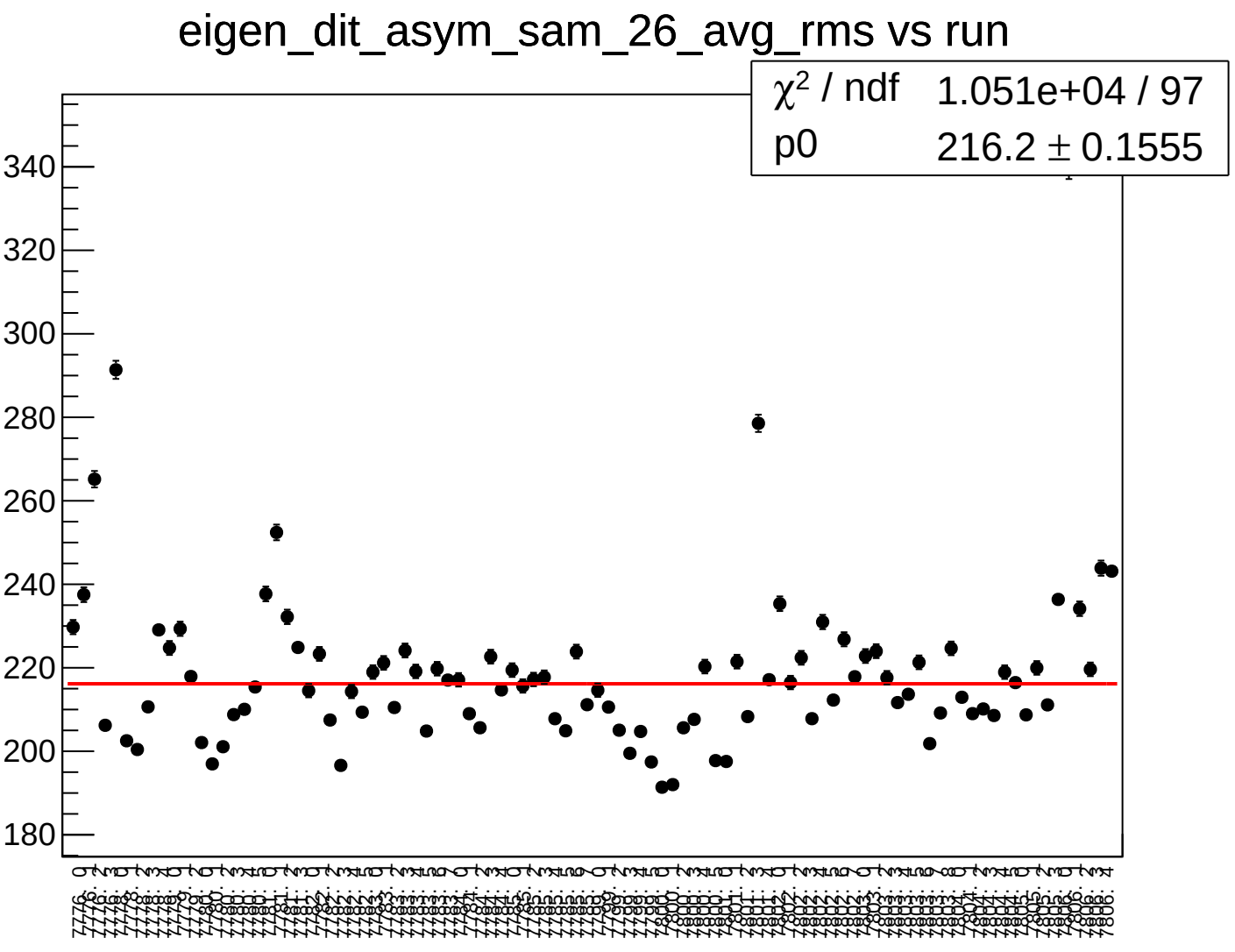

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 72.88 / 97
p0 −647.6 ± 1971
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 5.753e+04
Std Dev 0
2
1
0
−1
−2

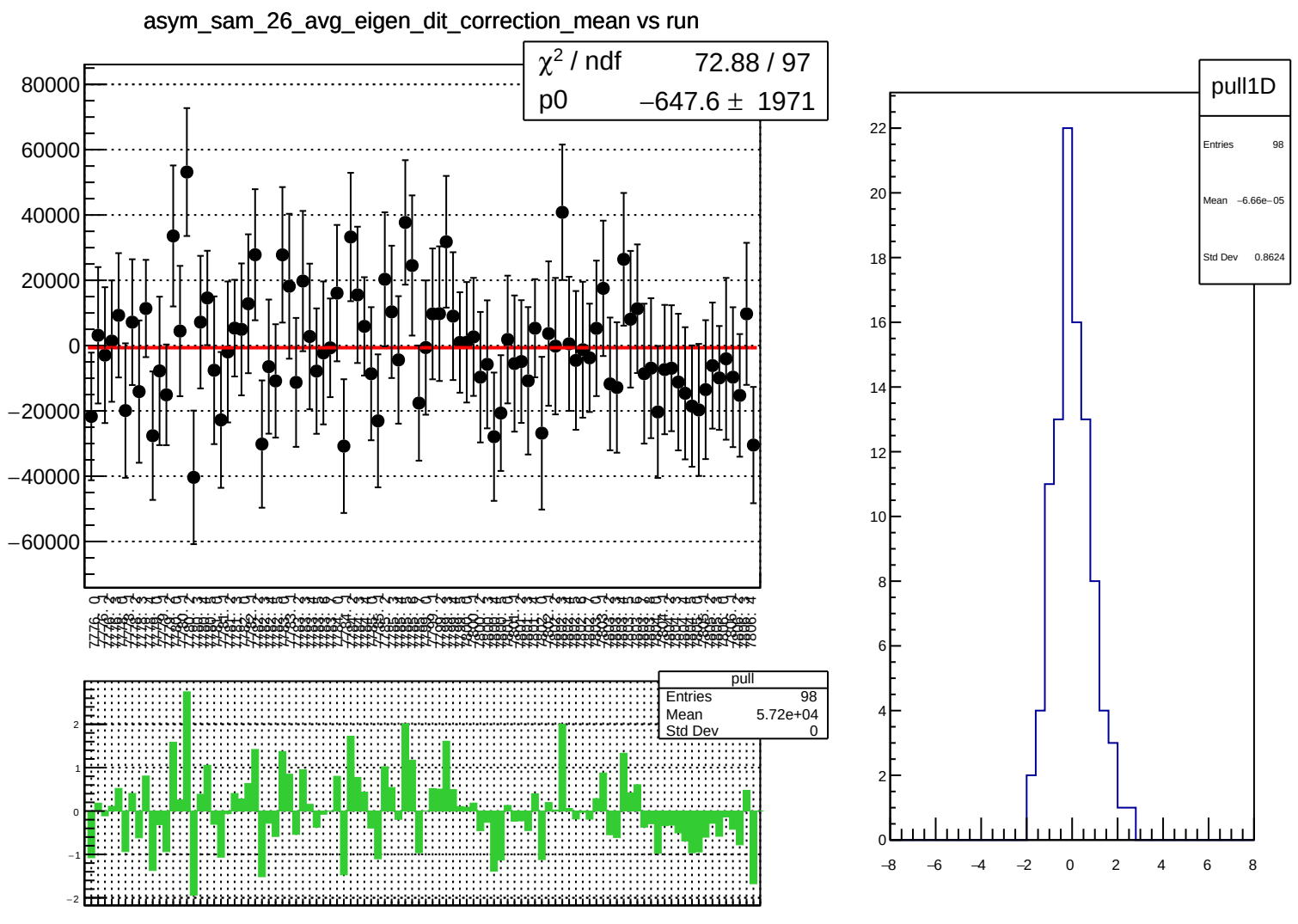

pull1D
Entries 98
Mean −6.623e−05
Std Dev 0.8624
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

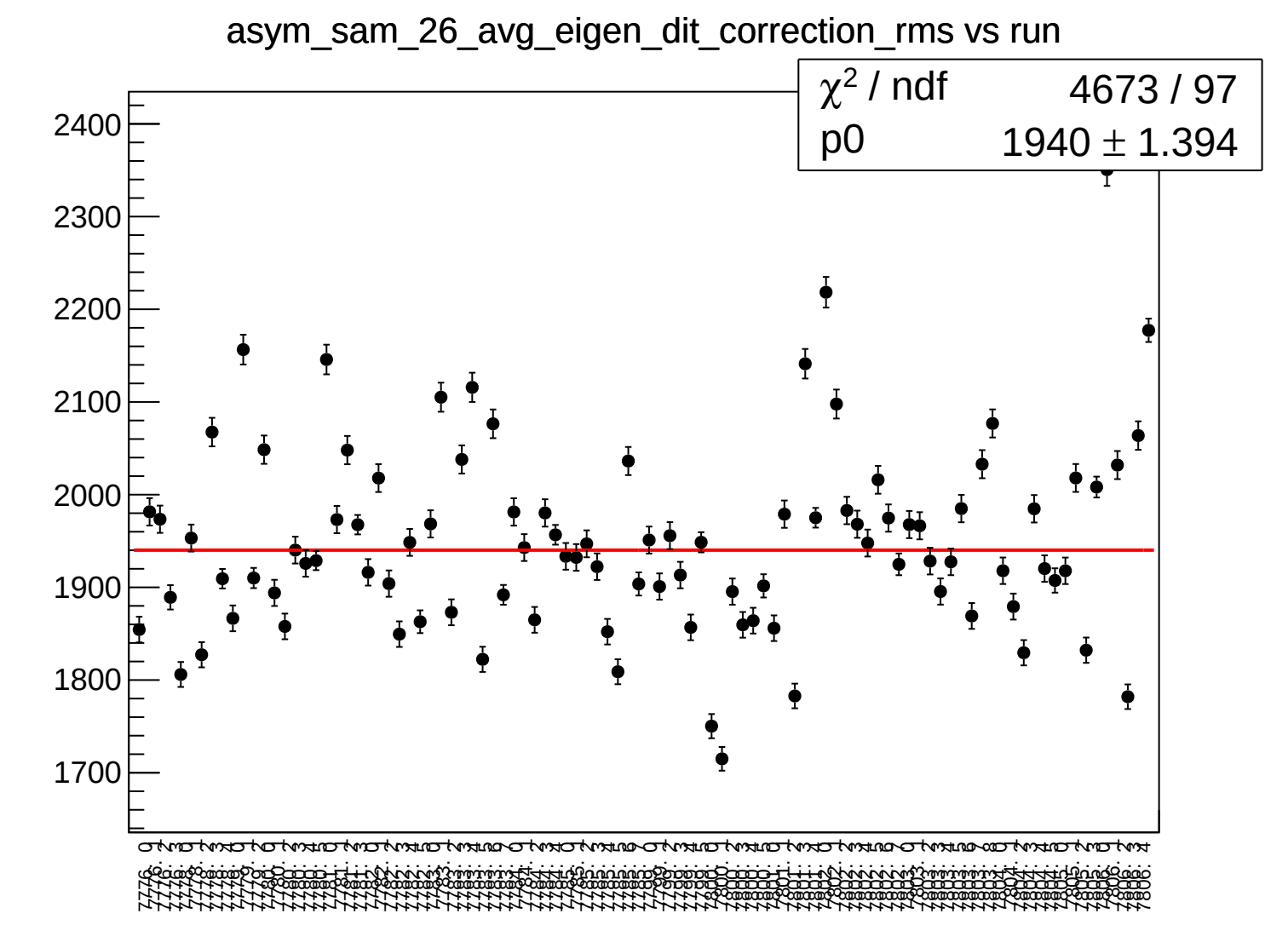

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 4673 / 97
p0 1940 ± 1.394
2400
2300
2200
2100
2000
1900
1800
1700

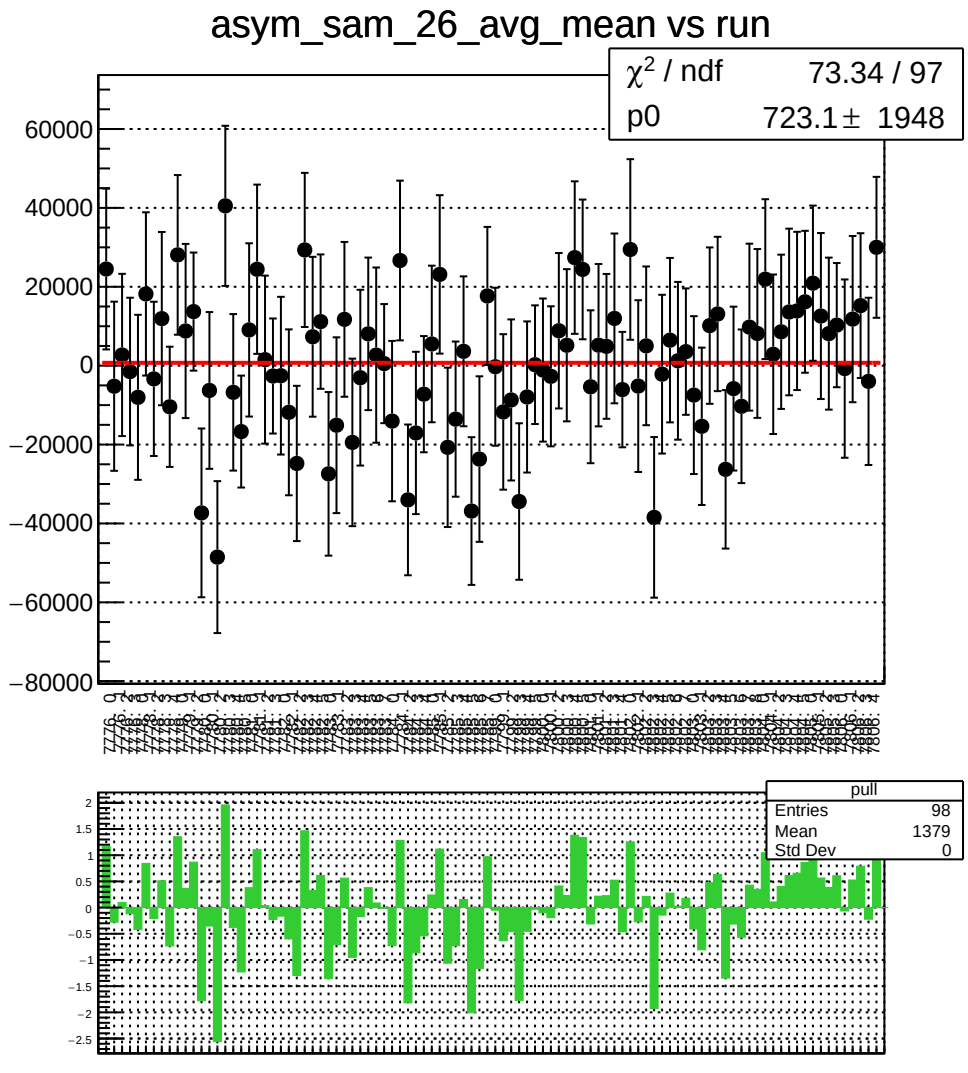

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 76.5 / 97
p0 165.7 ± 219.9
pull
Entries 98
Mean 182.8
Std Dev 0

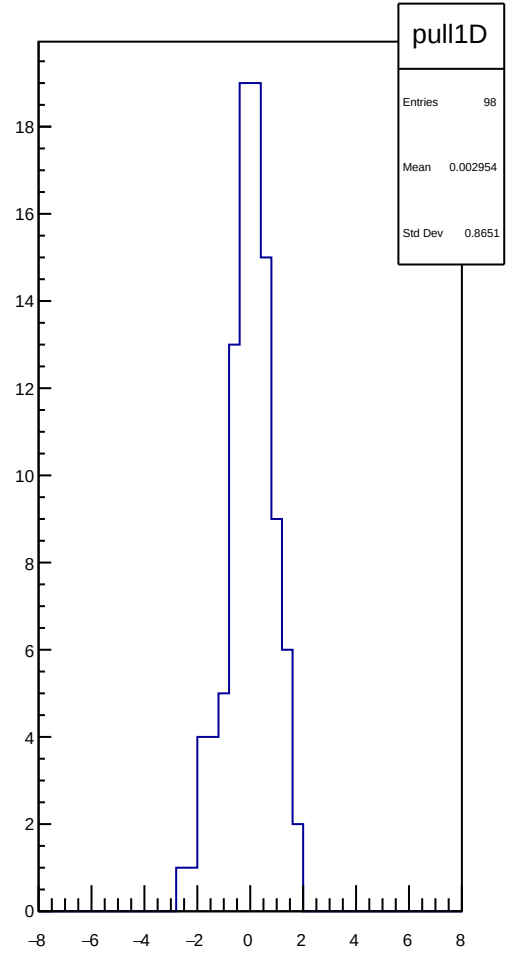

pull1D
Entries 98
Mean 0.006549
Std Dev 0.8835

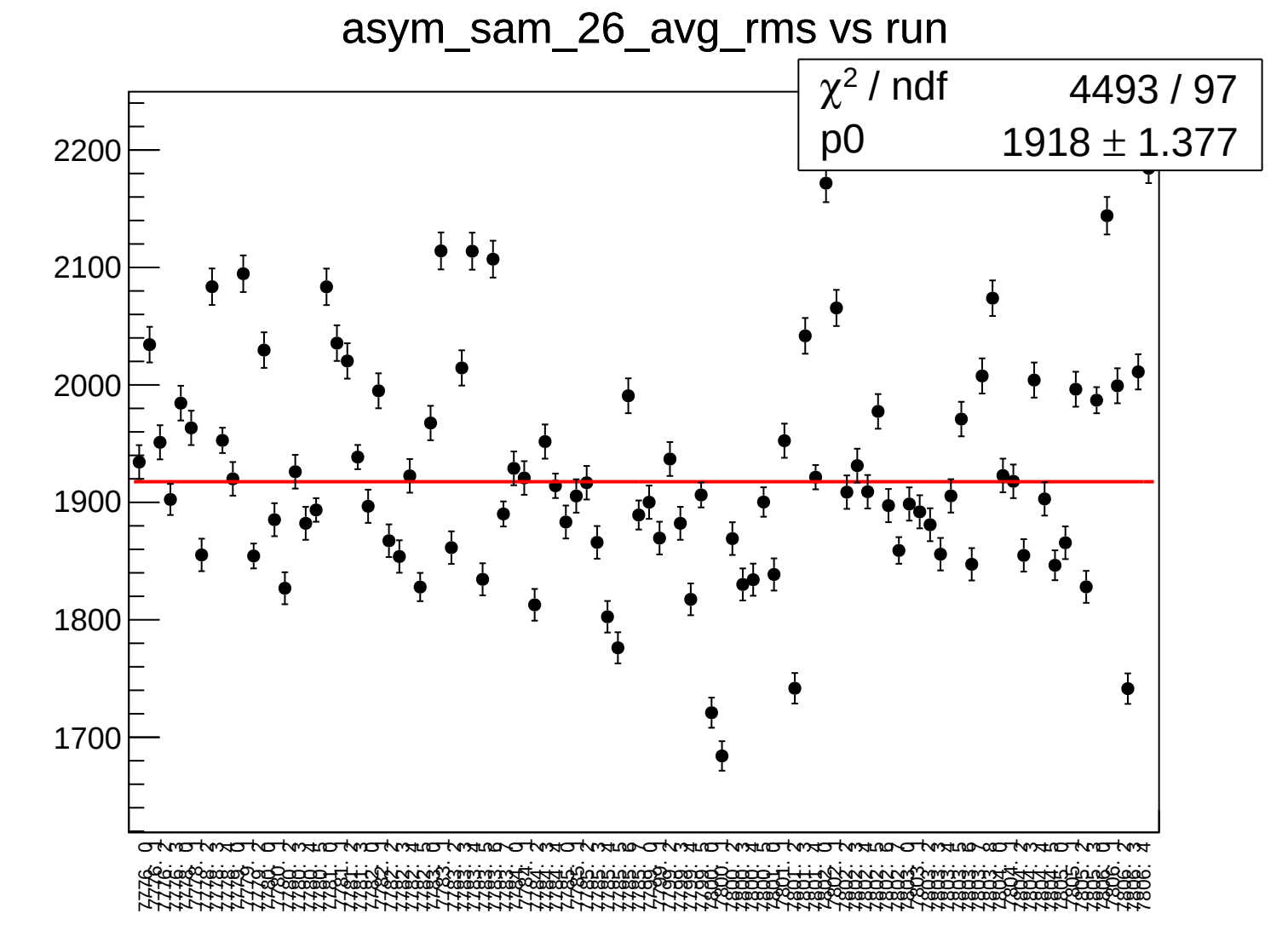

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.051e+04 / 97
p0 216.2 ± 0.1555
340
320
300
280
260
240
220
200
180

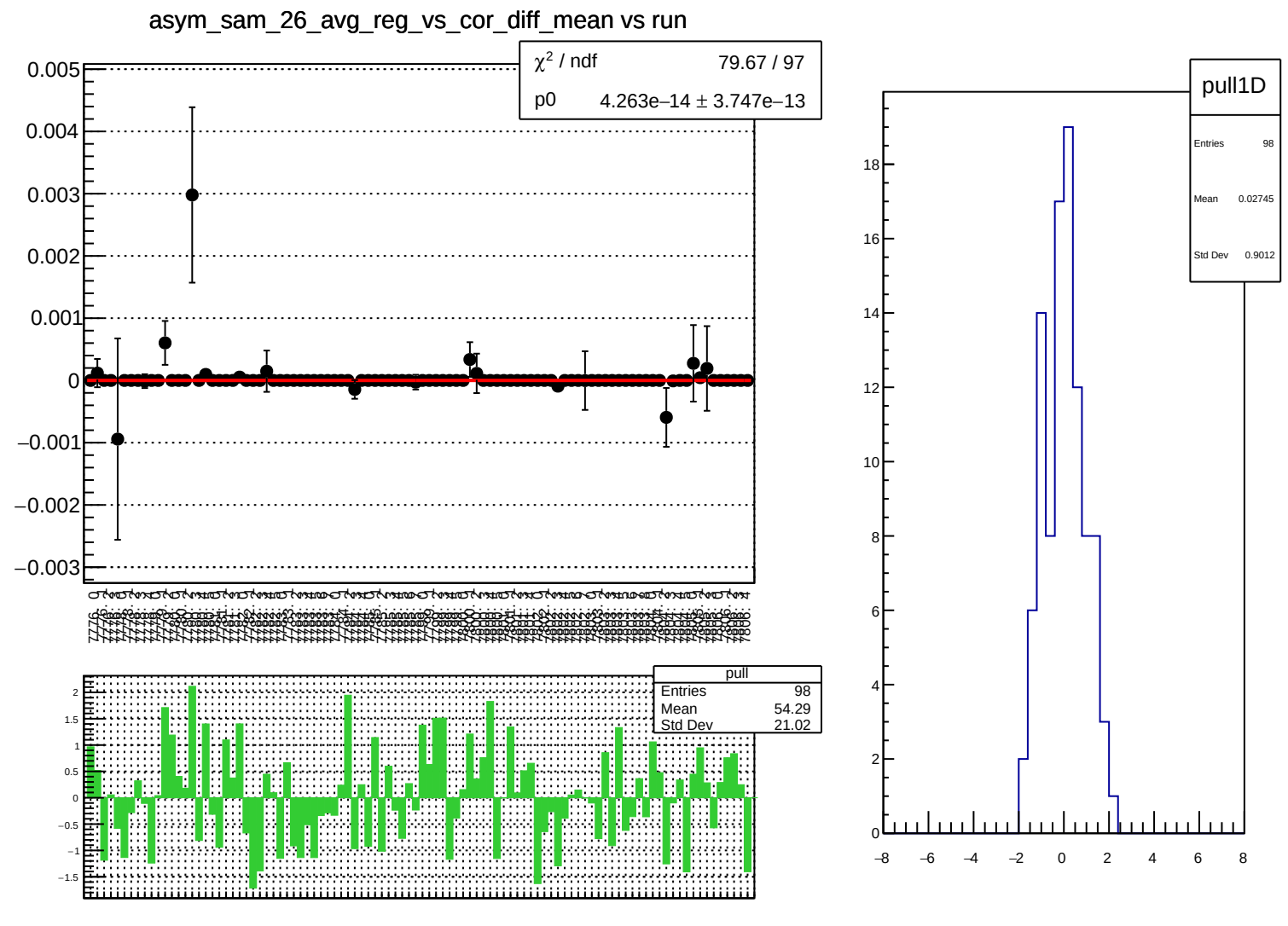

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.88 / 97
p0 −647.6 ± 1971
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 5.72e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −6.66e−05
Std Dev 0.8624
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

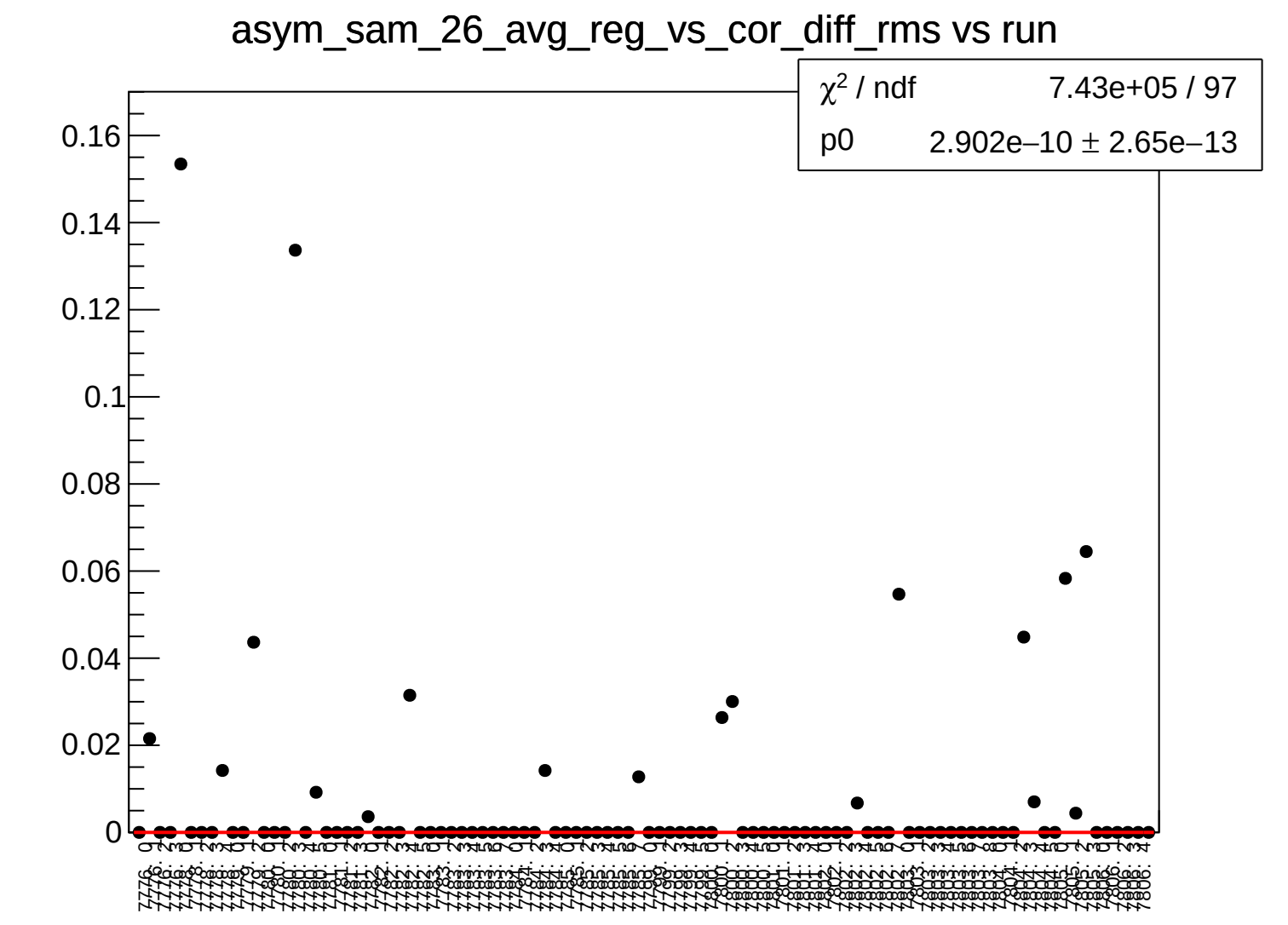

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 4673 / 97
p0 1940 ± 1.394
2400
2300
2200
2100
2000
1900
1800
1700

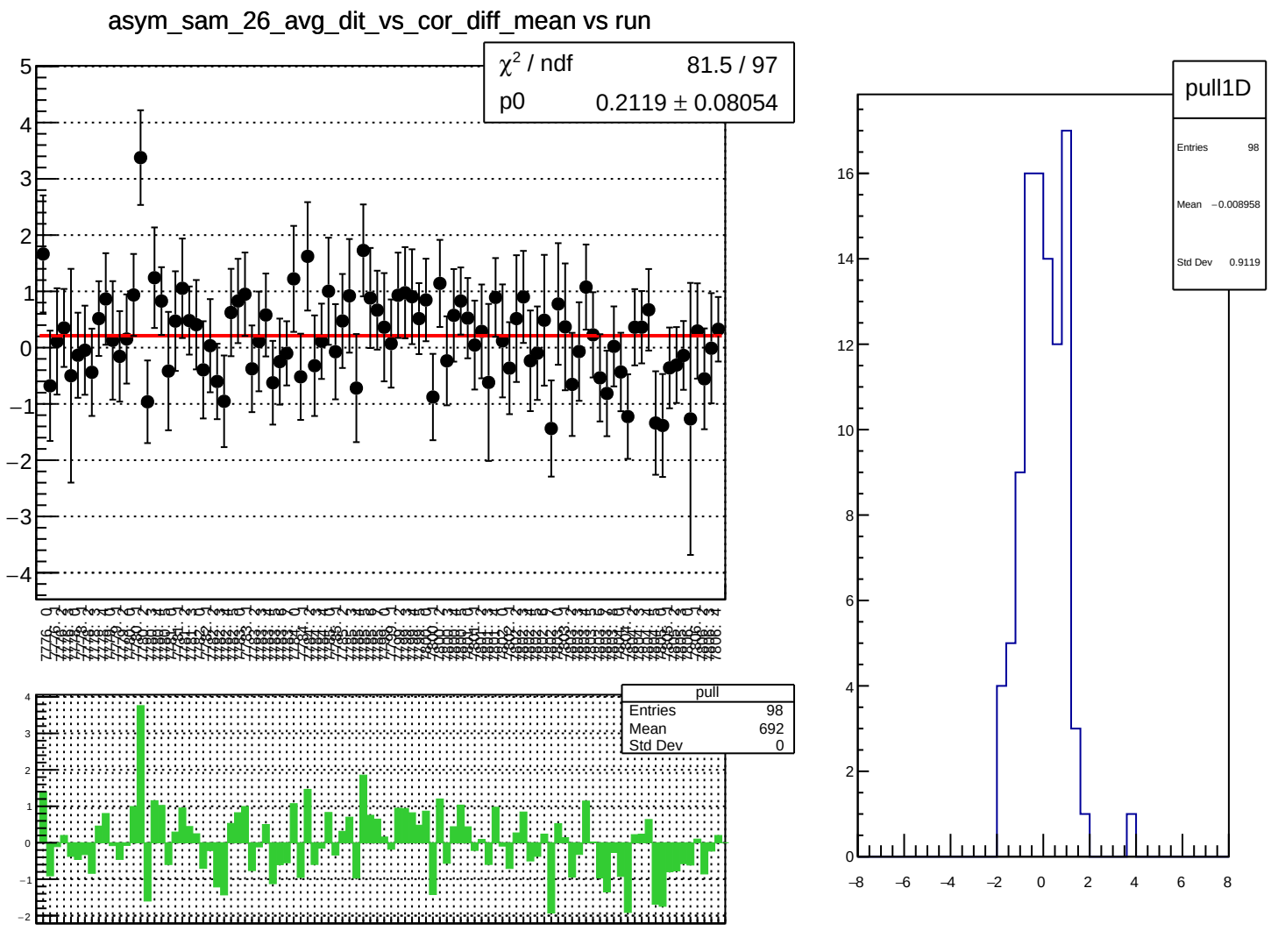

asym_sam_26_avg_mean vs run
χ² / ndf 73.34 / 97
p0 723.1 ± 1948
pull
Entries 98
Mean 1379
Std Dev 0

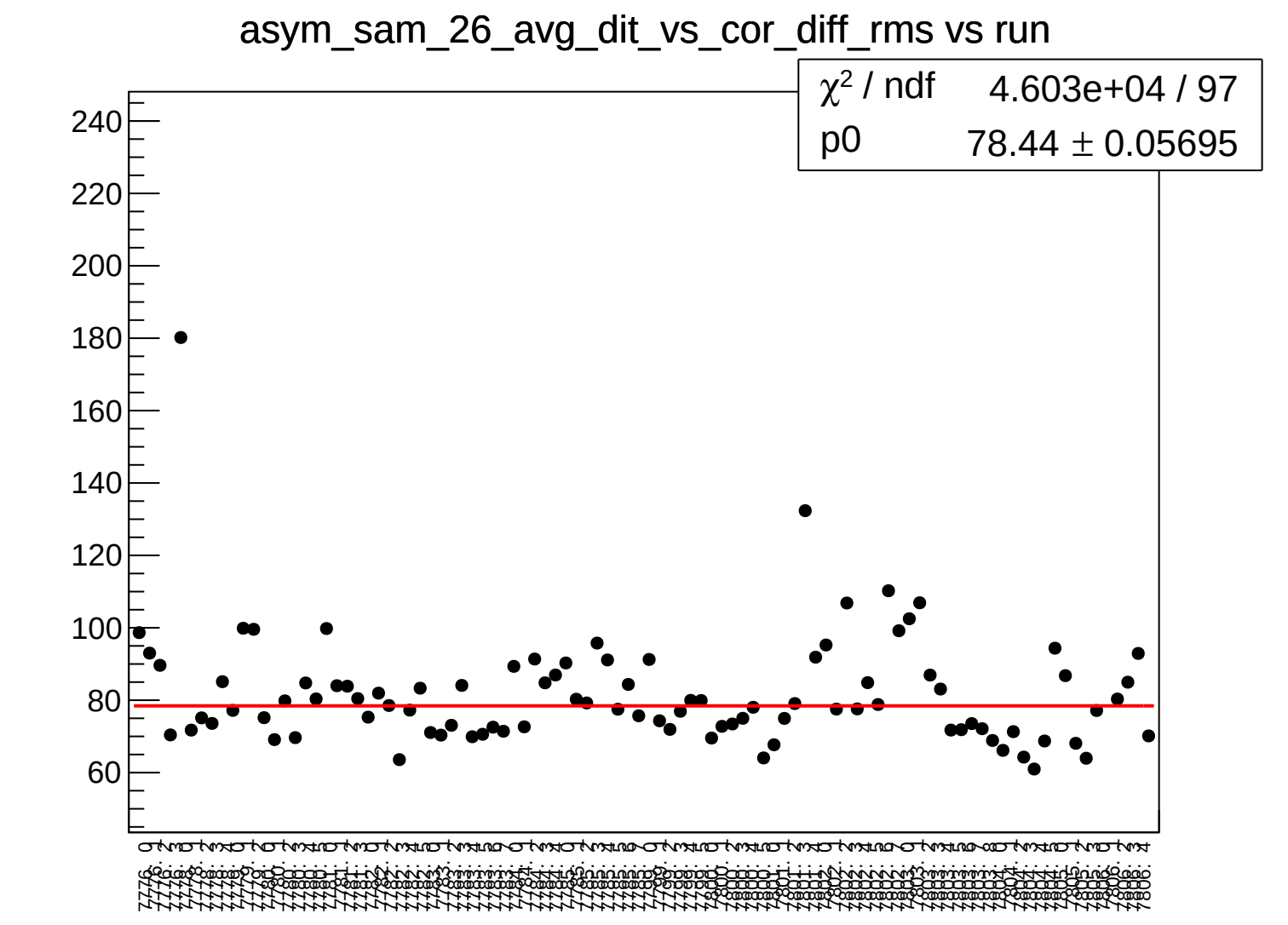

pull1D
Entries 98
Mean 0.002954
Std Dev 0.8651

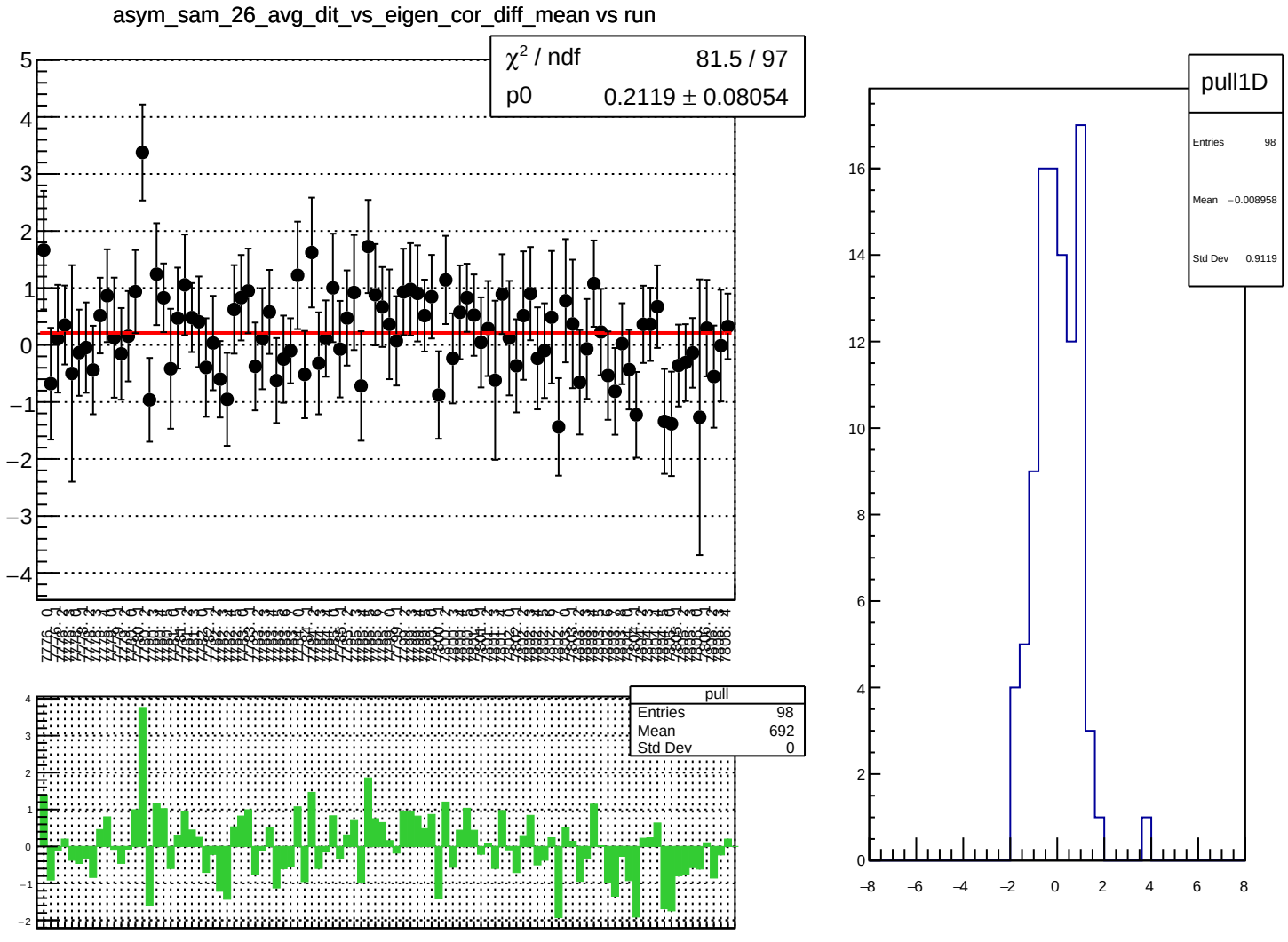

asym_sam_26_avg_rms vs run
χ² / ndf 4493 / 97
p0 1918 ± 1.377
2200
2100
2000
1900
1800
1700

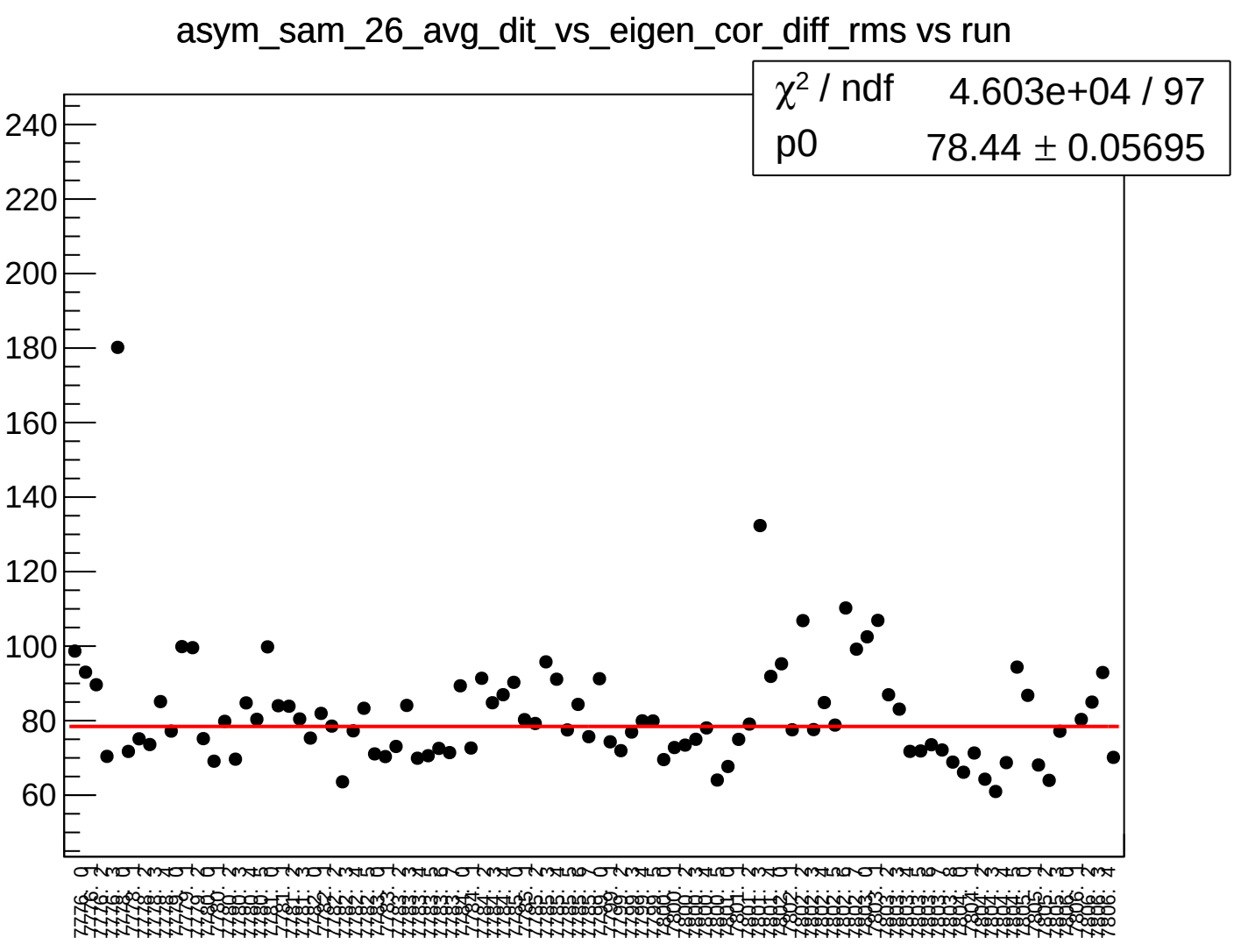

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.67 / 97
p0 4.263e−14 ± 3.747e−13
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 98
Mean 54.29
Std Dev 21.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.02745
Std Dev 0.9012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

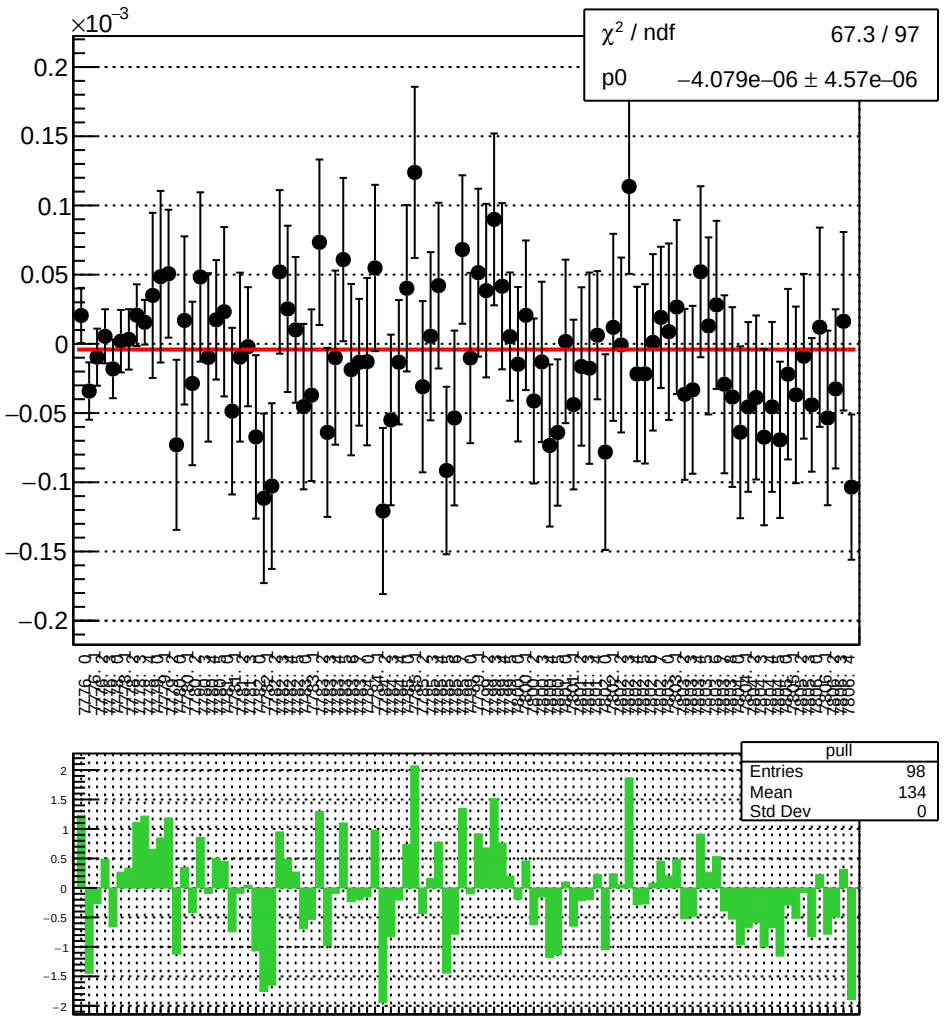

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.43e+05 / 97
p0 2.902e−10 ± 2.65e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

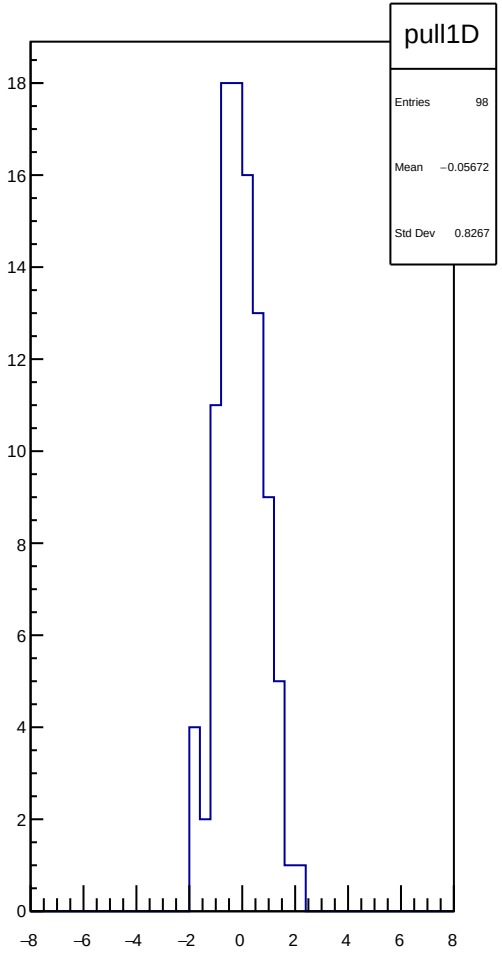

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.5 / 97
p0 0.2119 ± 0.08054
pull
Entries 98
Mean 692
Std Dev 0
pull1D
Entries 98
Mean −0.008958
Std Dev 0.9119

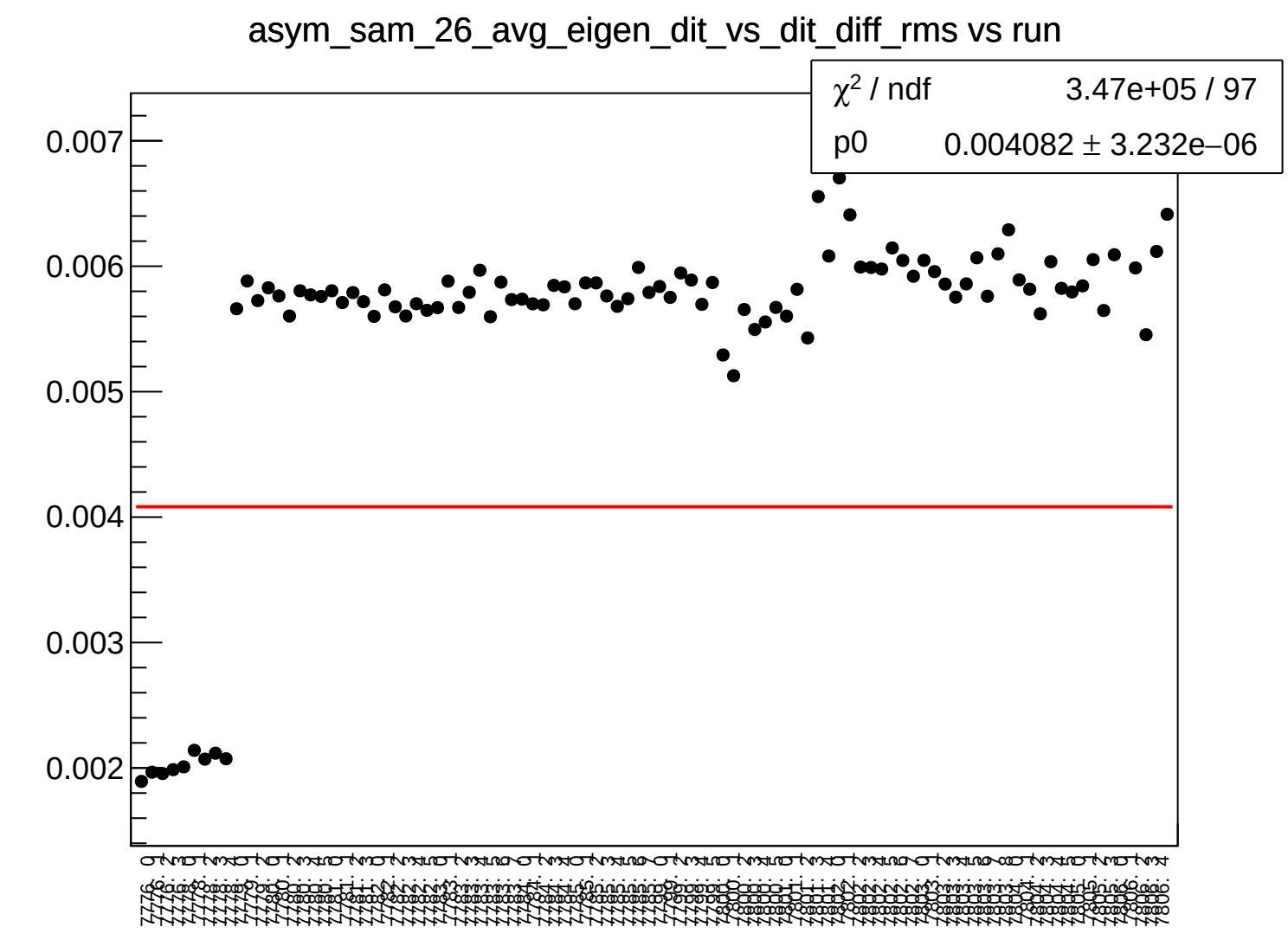

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.603e+04 / 97
p0 78.44 ± 0.05695
240
220
200
180
160
140
120
100
80
60

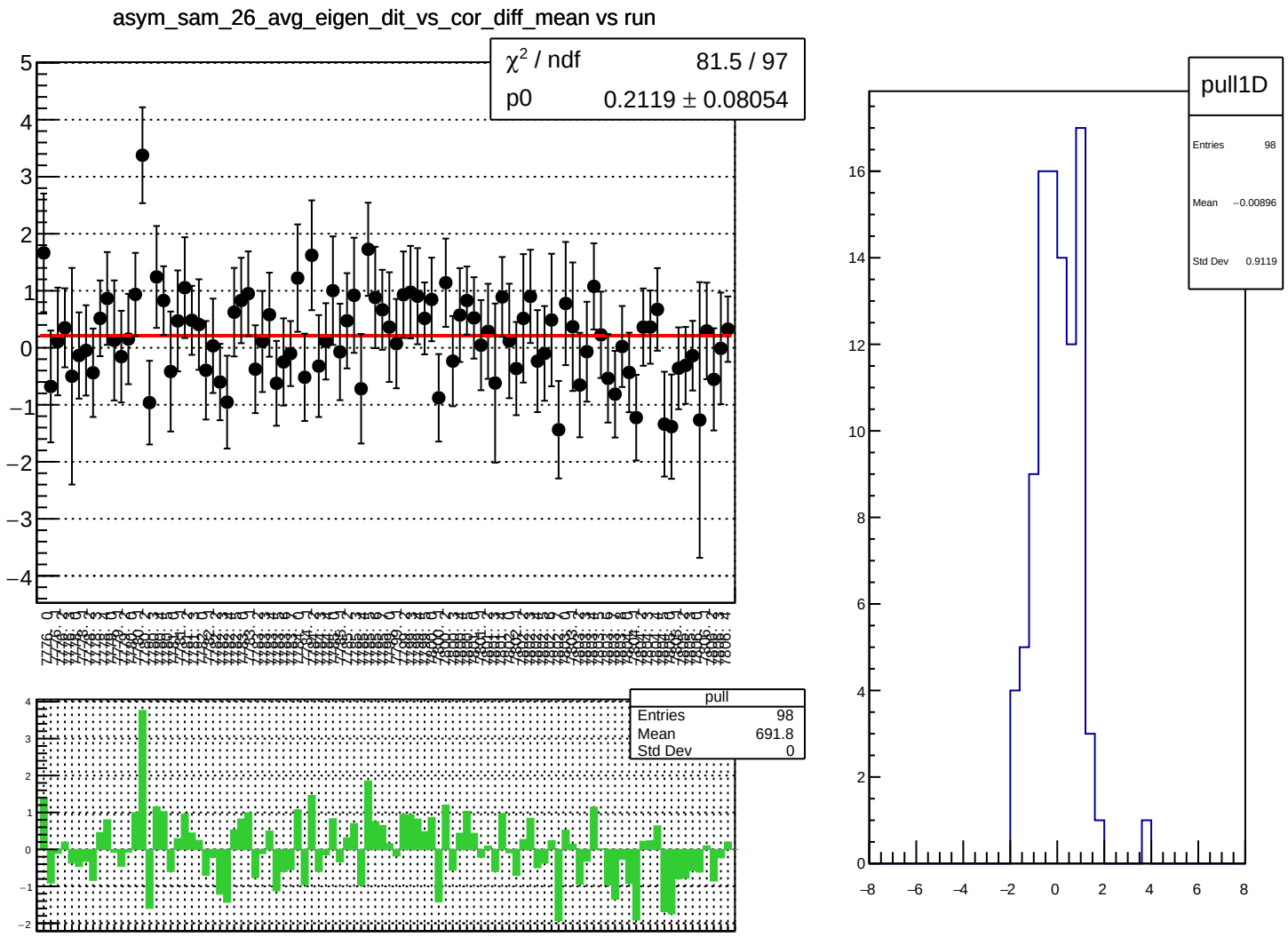

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.5 / 97
p0 0.2119 ± 0.08054
pull
Entries 98
Mean 692
Std Dev 0
pull1D
Entries 98
Mean −0.008958
Std Dev 0.9119

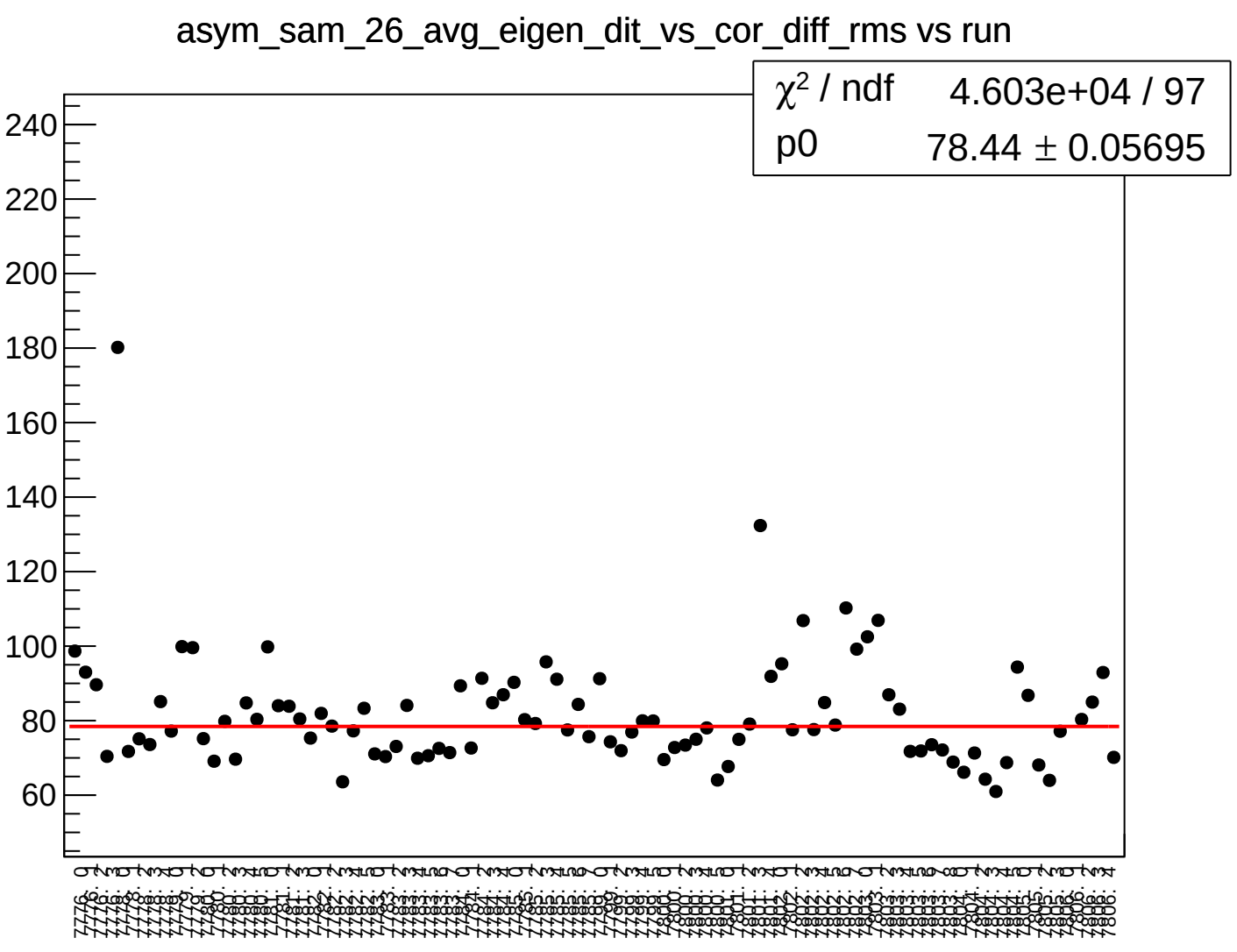

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.603e+04 / 97
p0 78.44 ± 0.05695
240
220
200
180
160
140
120
100
80
60

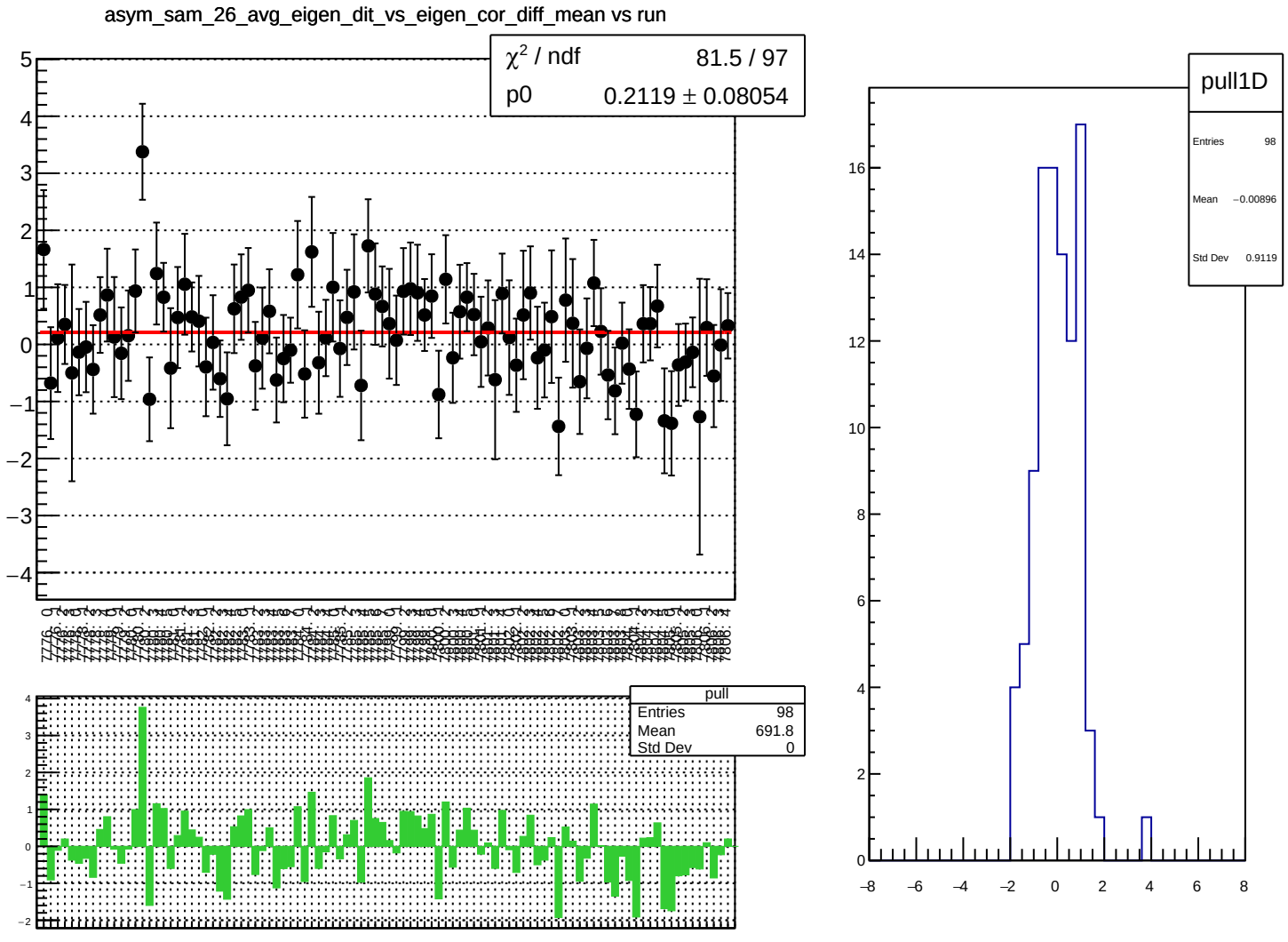

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.3 / 97
p0 −4.079e−06 ± 4.57e−06
pull
Entries 98
Mean 134
Std Dev 0

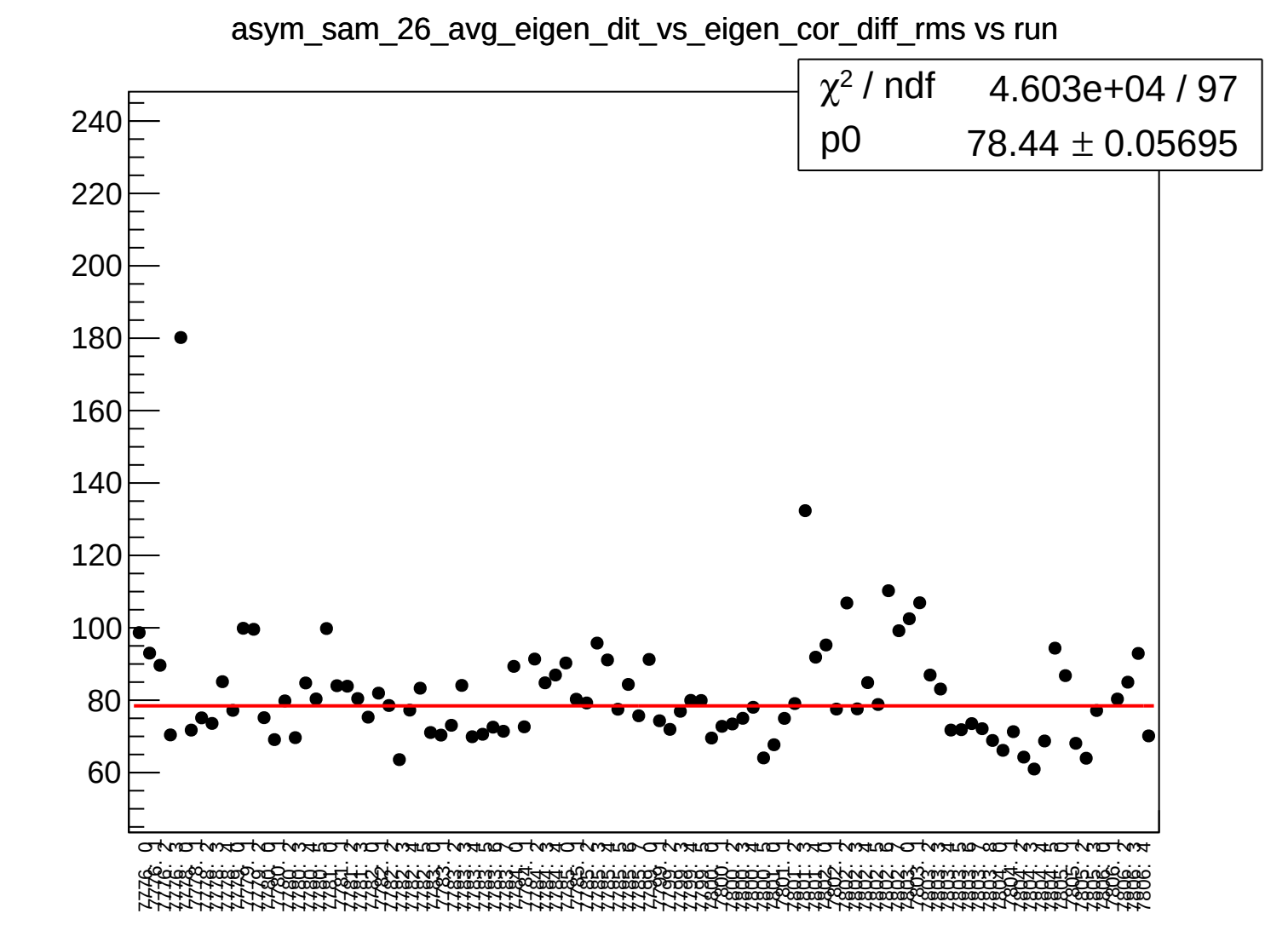

pull1D
Entries 98
Mean −0.05672
Std Dev 0.8267

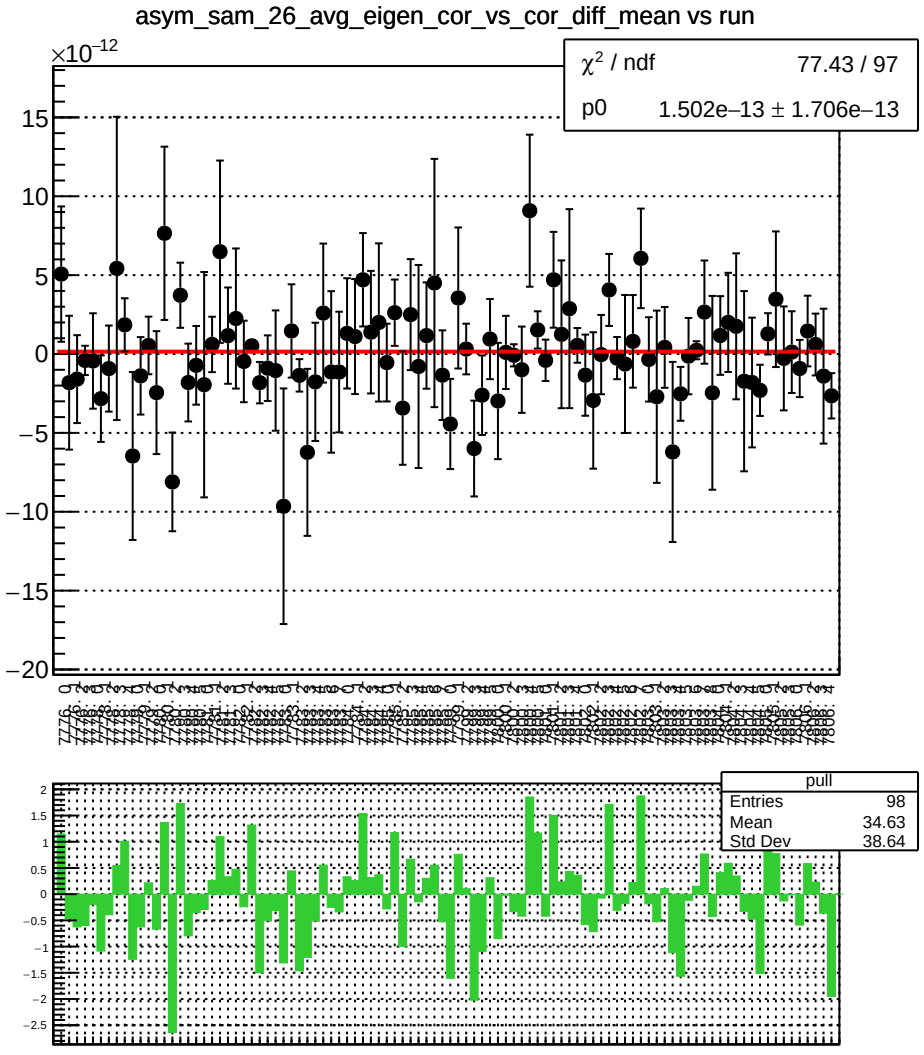

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.47e+05 / 97
p0 0.004082 ± 3.232e−06
0.007
0.006
0.005
0.004
0.003
0.002

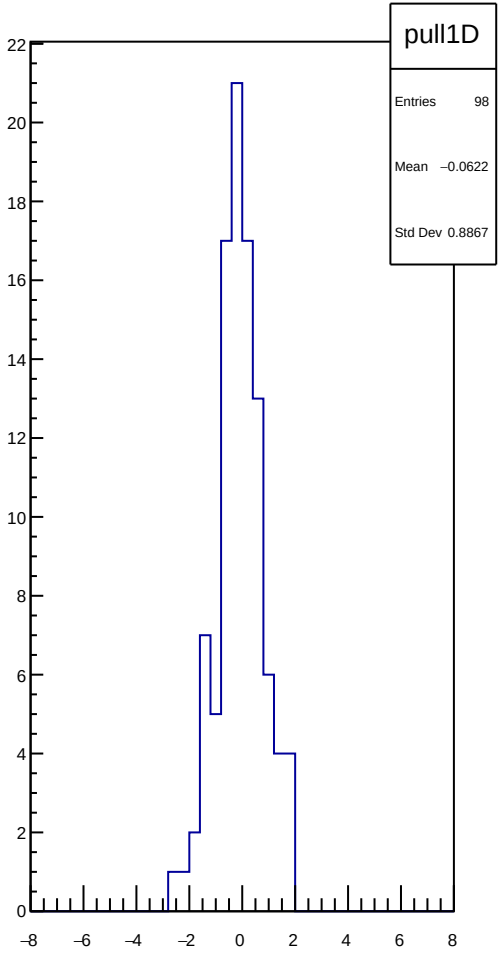

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.5 / 97
p0 0.2119 ± 0.08054
pull
Entries 98
Mean 691.8
Std Dev 0
pull1D
Entries 98
Mean −0.00896
Std Dev 0.9119

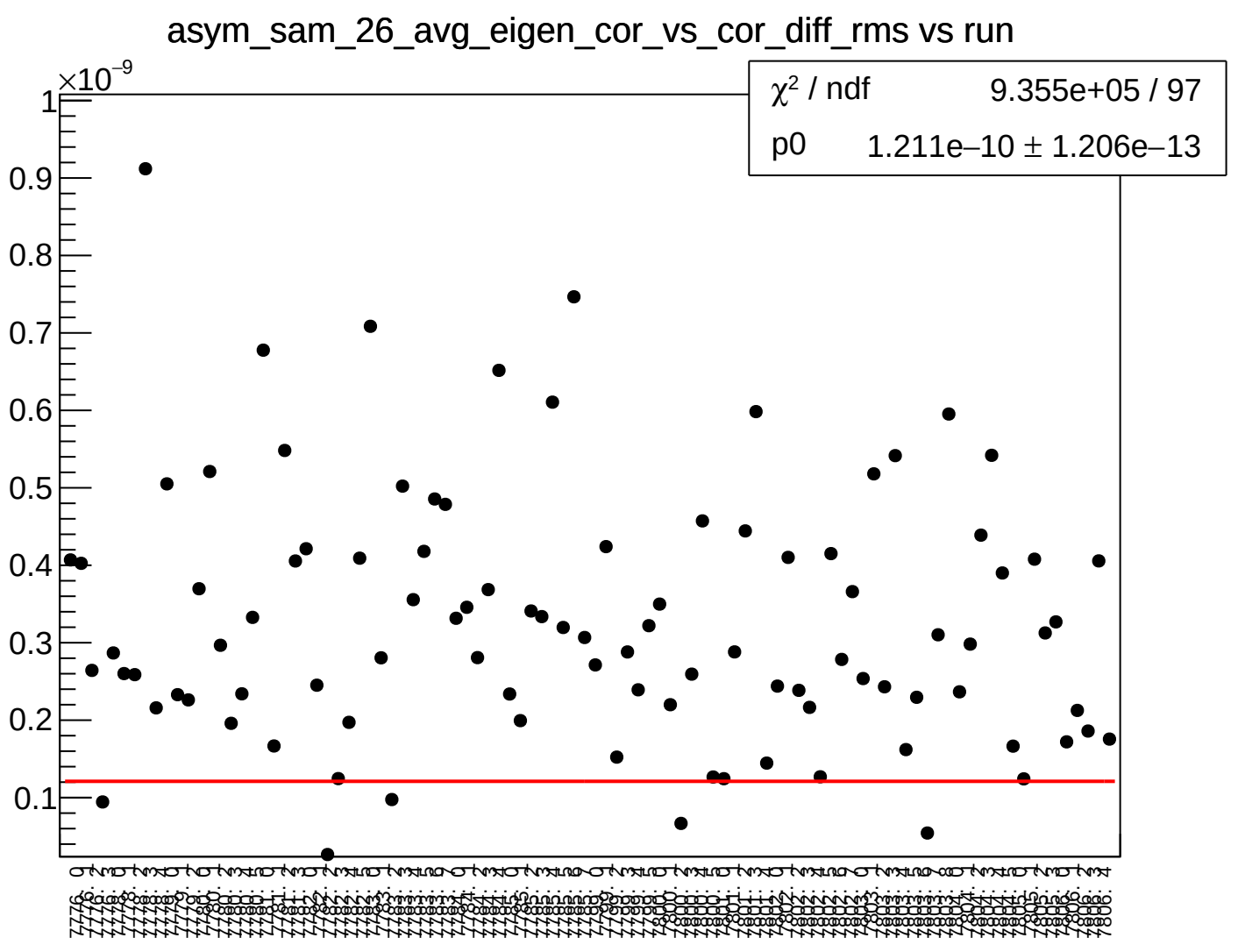

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.603e+04 / 97
p0 78.44 ± 0.05695
240
220
200
180
160
140
120
100
80
60

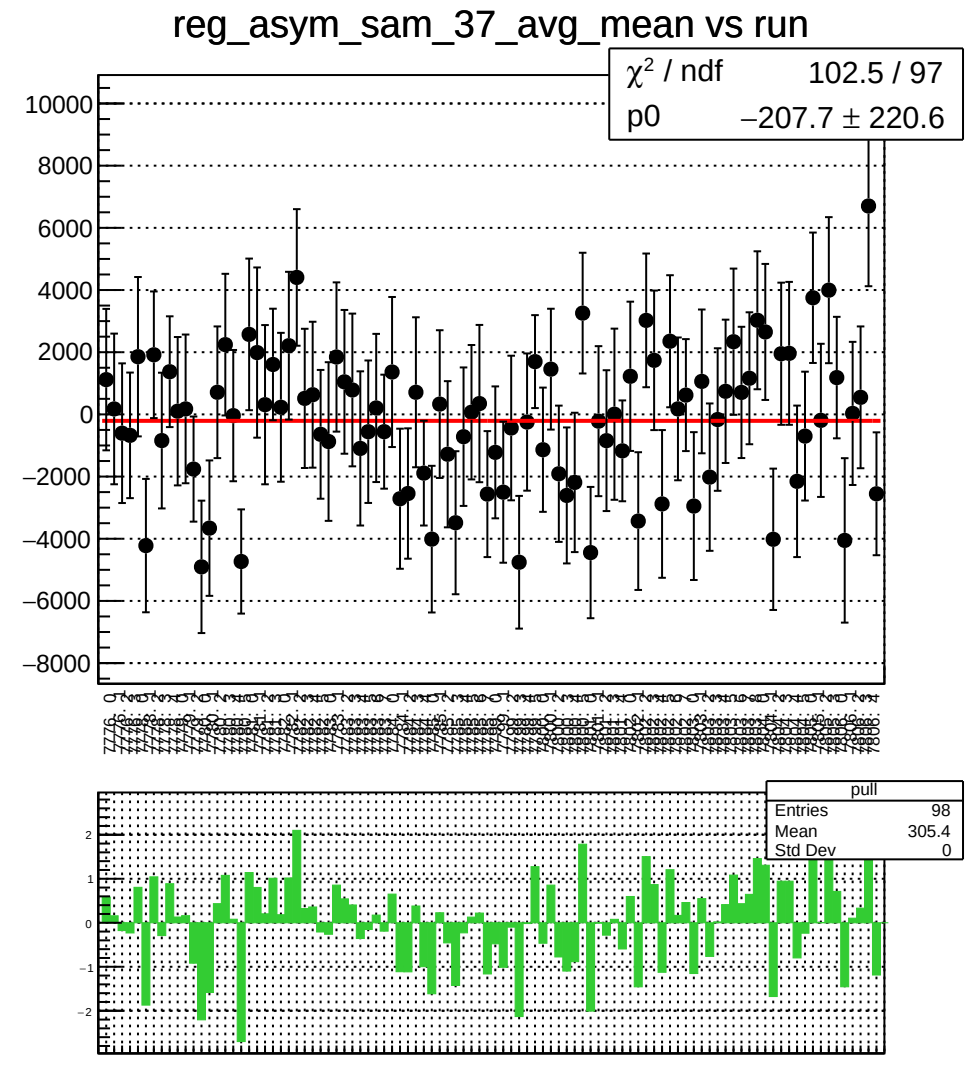

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.5 / 97
p0 0.2119 ± 0.08054
pull
Entries 98
Mean 691.8
Std Dev 0
pull1D
Entries 98
Mean −0.00896
Std Dev 0.9119

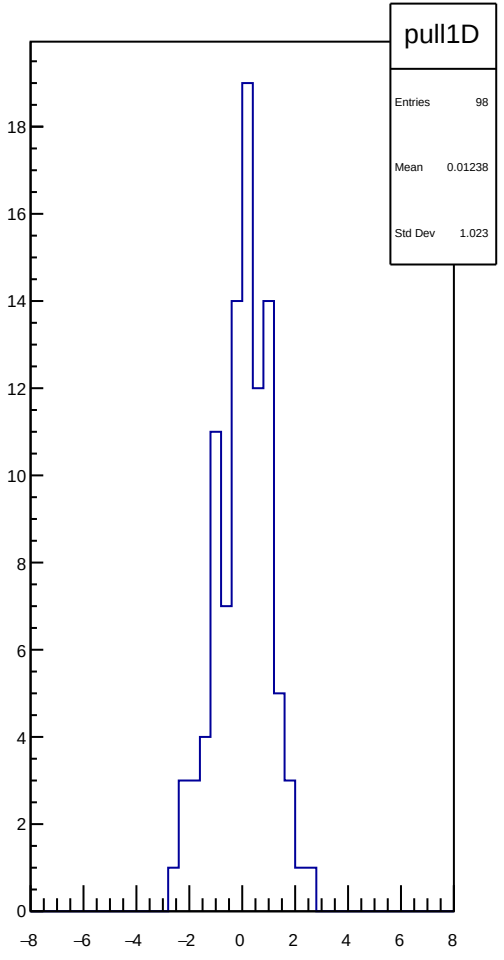

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.603e+04 / 97
p0 78.44 ± 0.05695
240
220
200
180
160
140
120
100
80
60

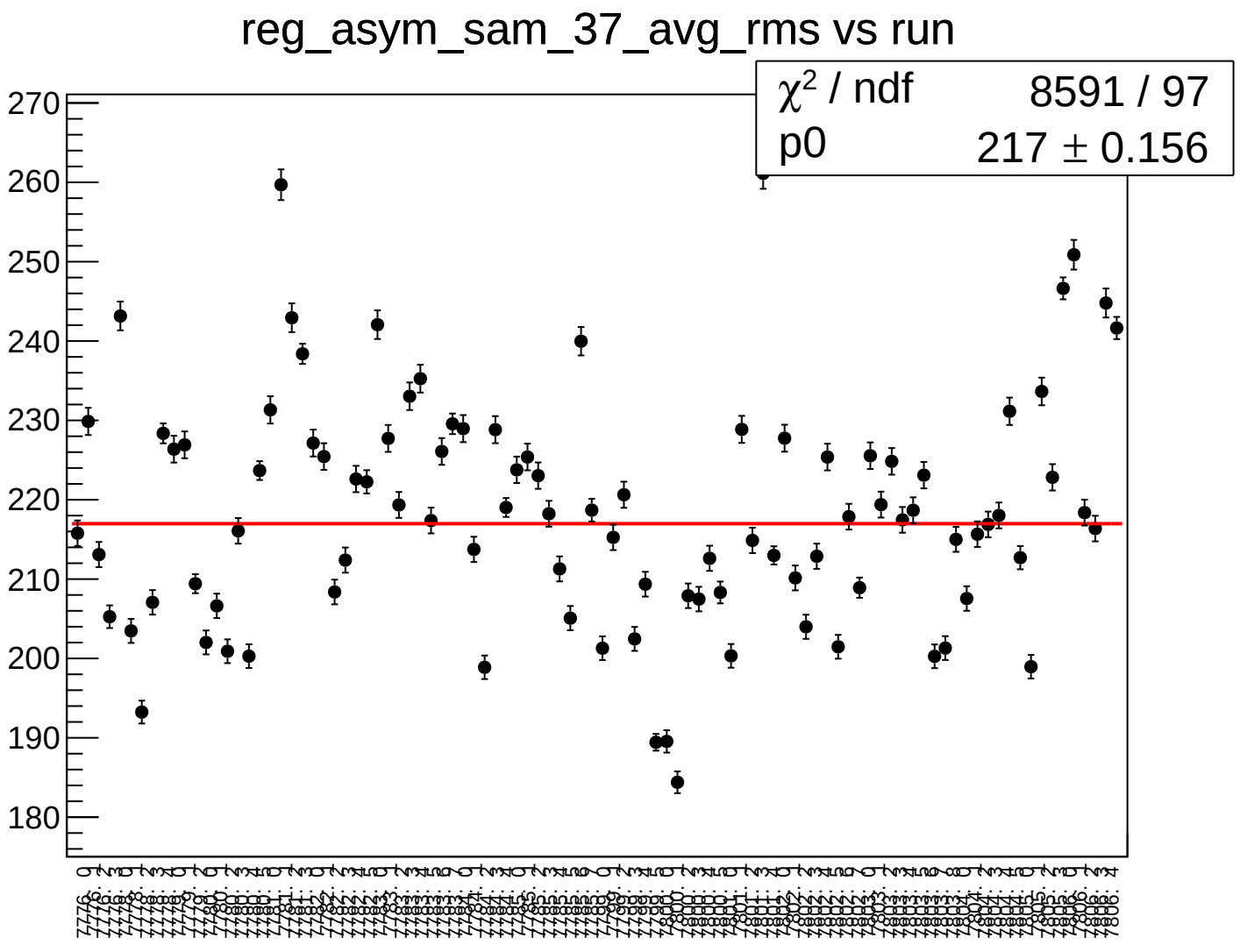

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.43 / 97
p0 1.502e−13 ± 1.706e−13
pull
Entries 98
Mean 34.63
Std Dev 38.64

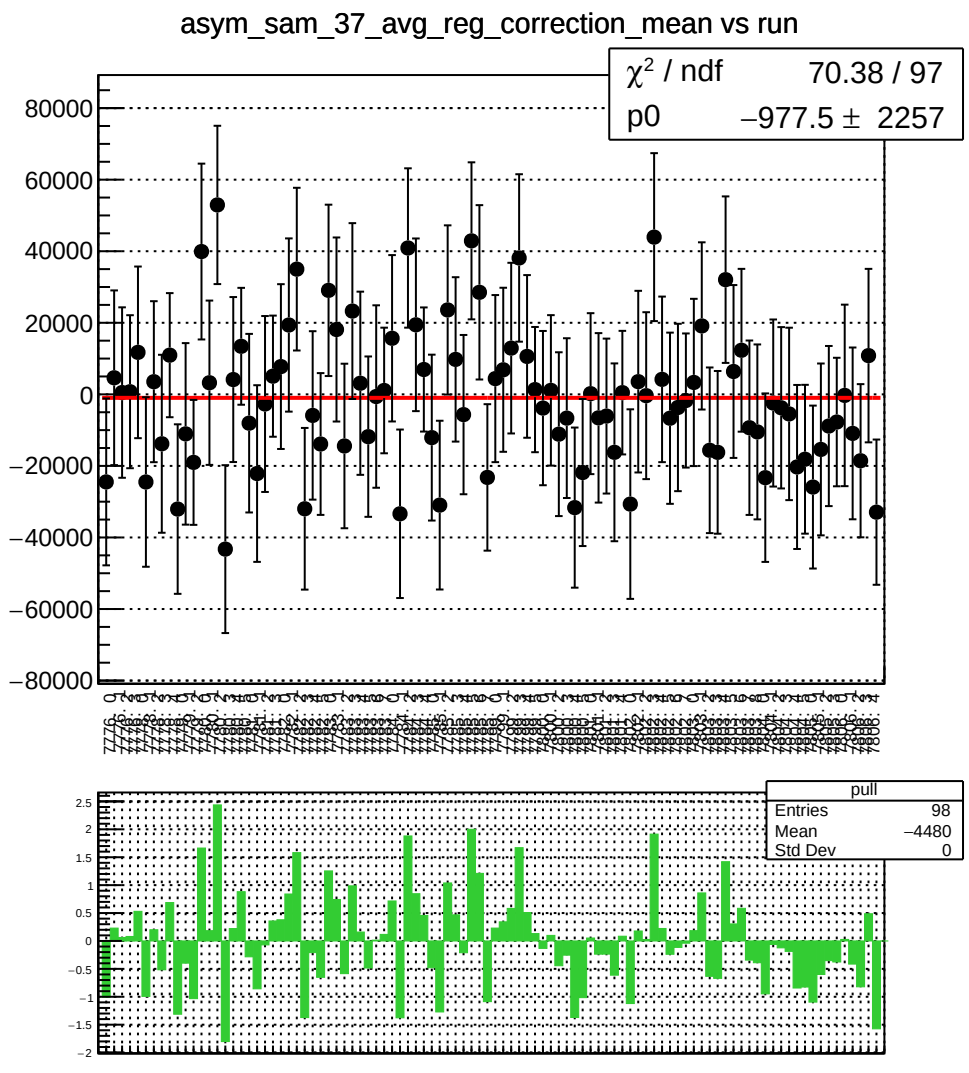

pull1D
Entries 98
Mean −0.0622
Std Dev 0.8867

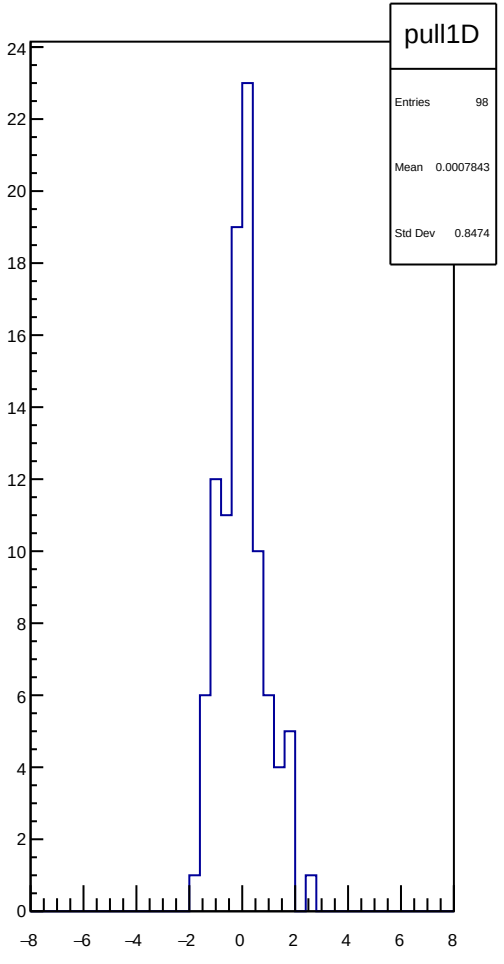

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.355e+05 / 97
p0 1.211e−10 ± 1.206e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

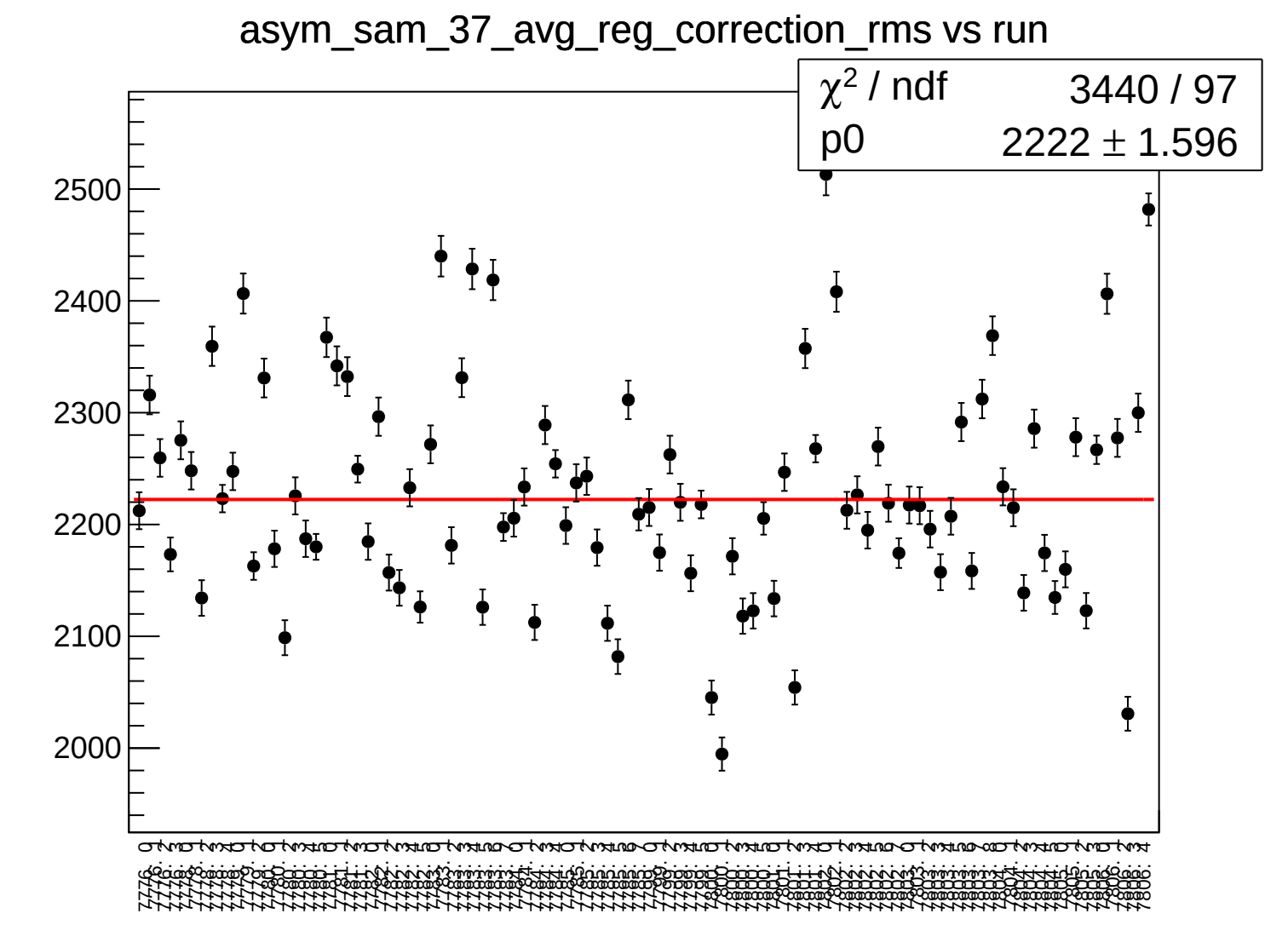

reg_asym_sam_37_avg_mean vs run
χ² / ndf 102.5 / 97
p0 −207.7 ± 220.6
pull
Entries 98
Mean 305.4
Std Dev 0

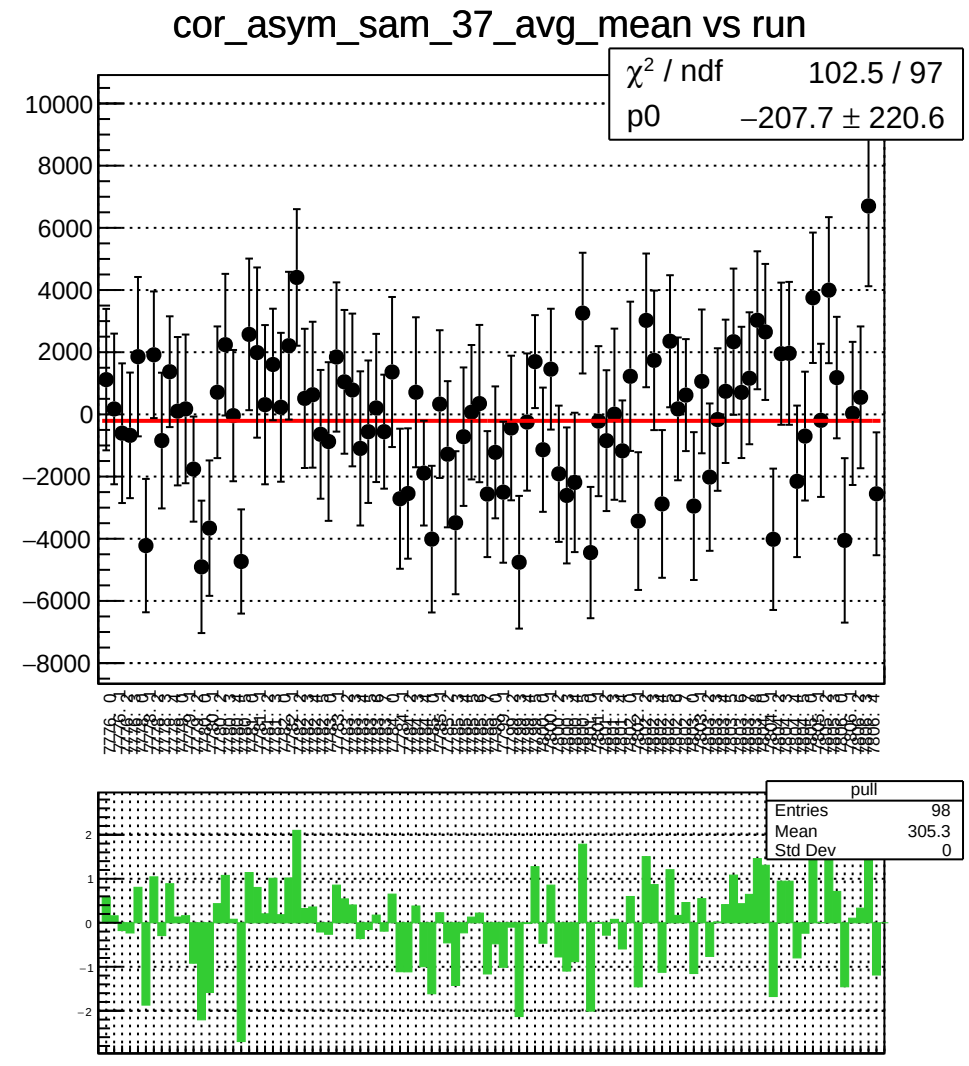

pull1D
Entries 98
Mean 0.01238
Std Dev 1.023

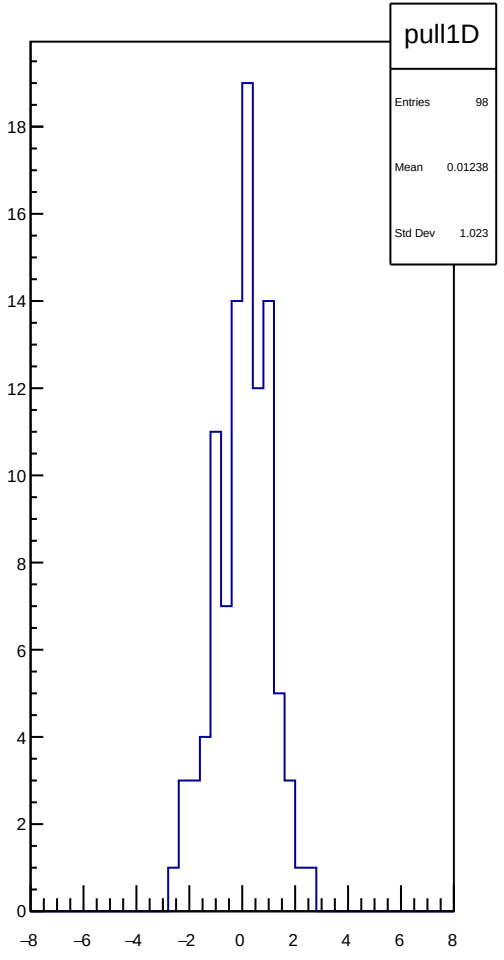

reg_asym_sam_37_avg_rms vs run
χ² / ndf 8591 / 97
p0 217 ± 0.156
270
260
250
240
230
220
210
200
190
180

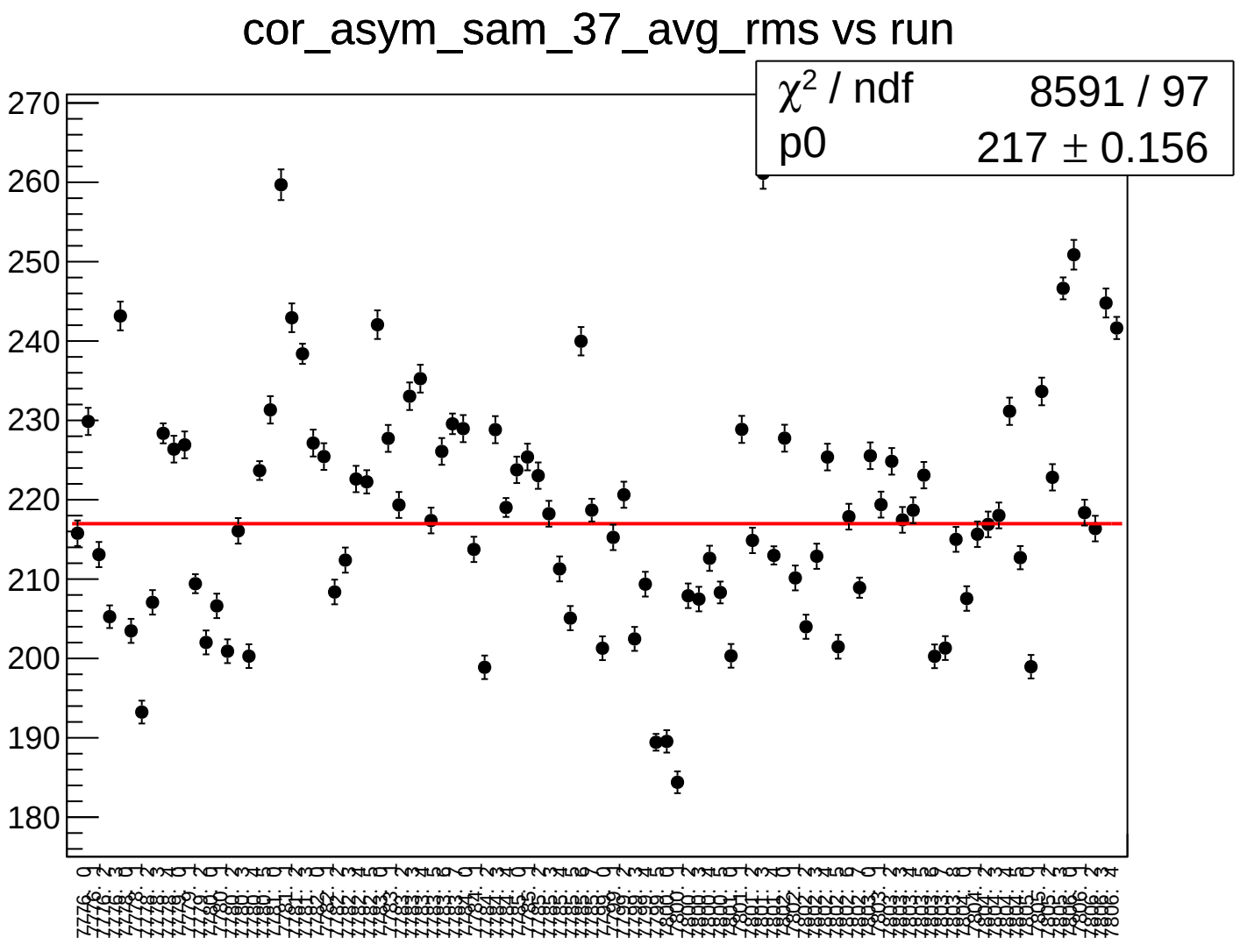

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 70.38 / 97
p0 −977.5 ± 2257
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −4480
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

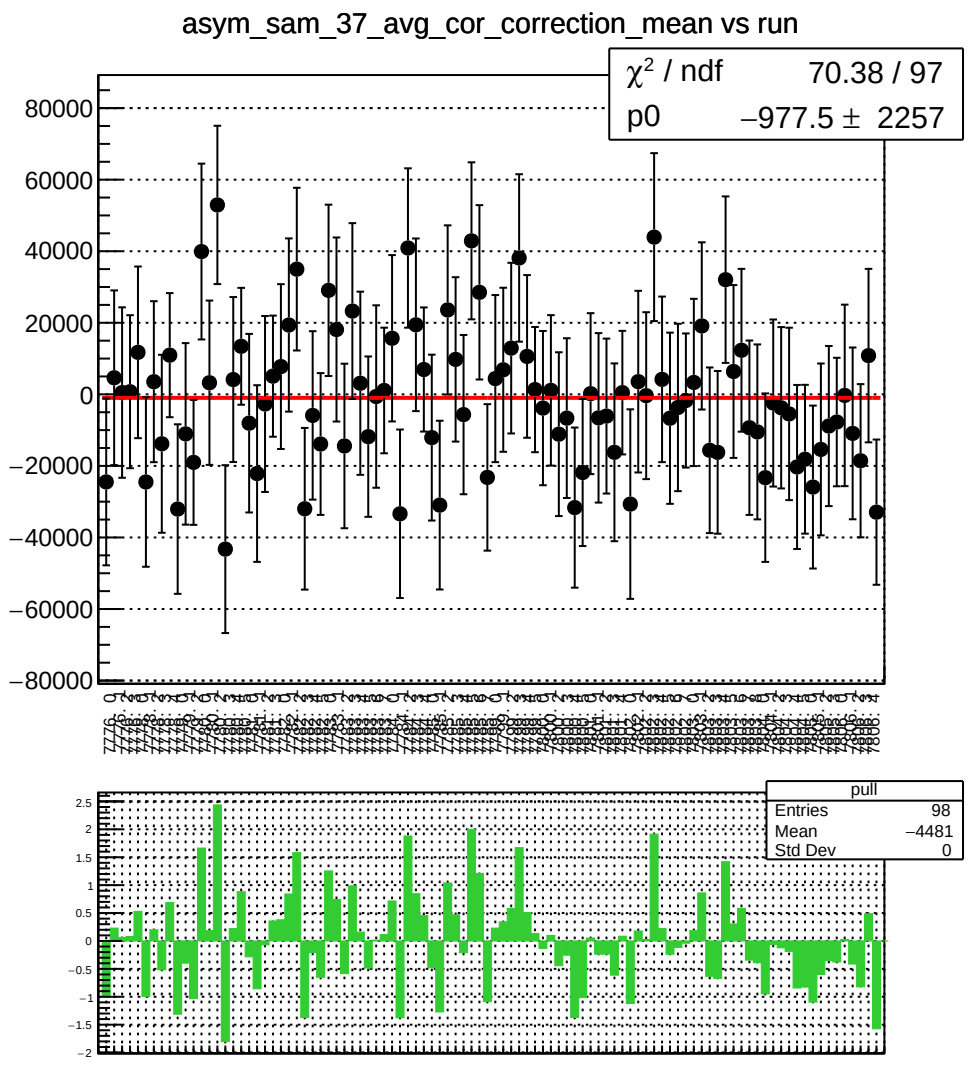

pull1D
Entries 98
Mean 0.0007843
Std Dev 0.8474
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

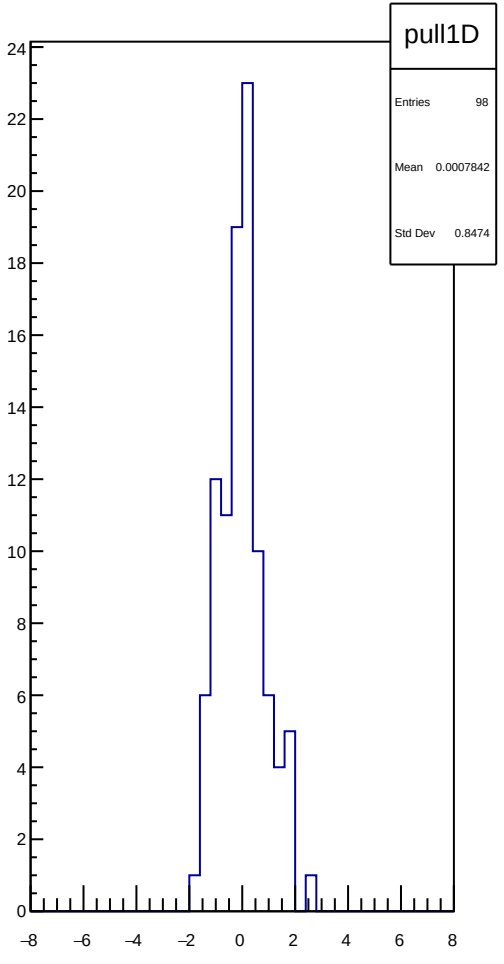

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 3440 / 97
p0 2222 ± 1.596
2500
2400
2300
2200
2100
2000

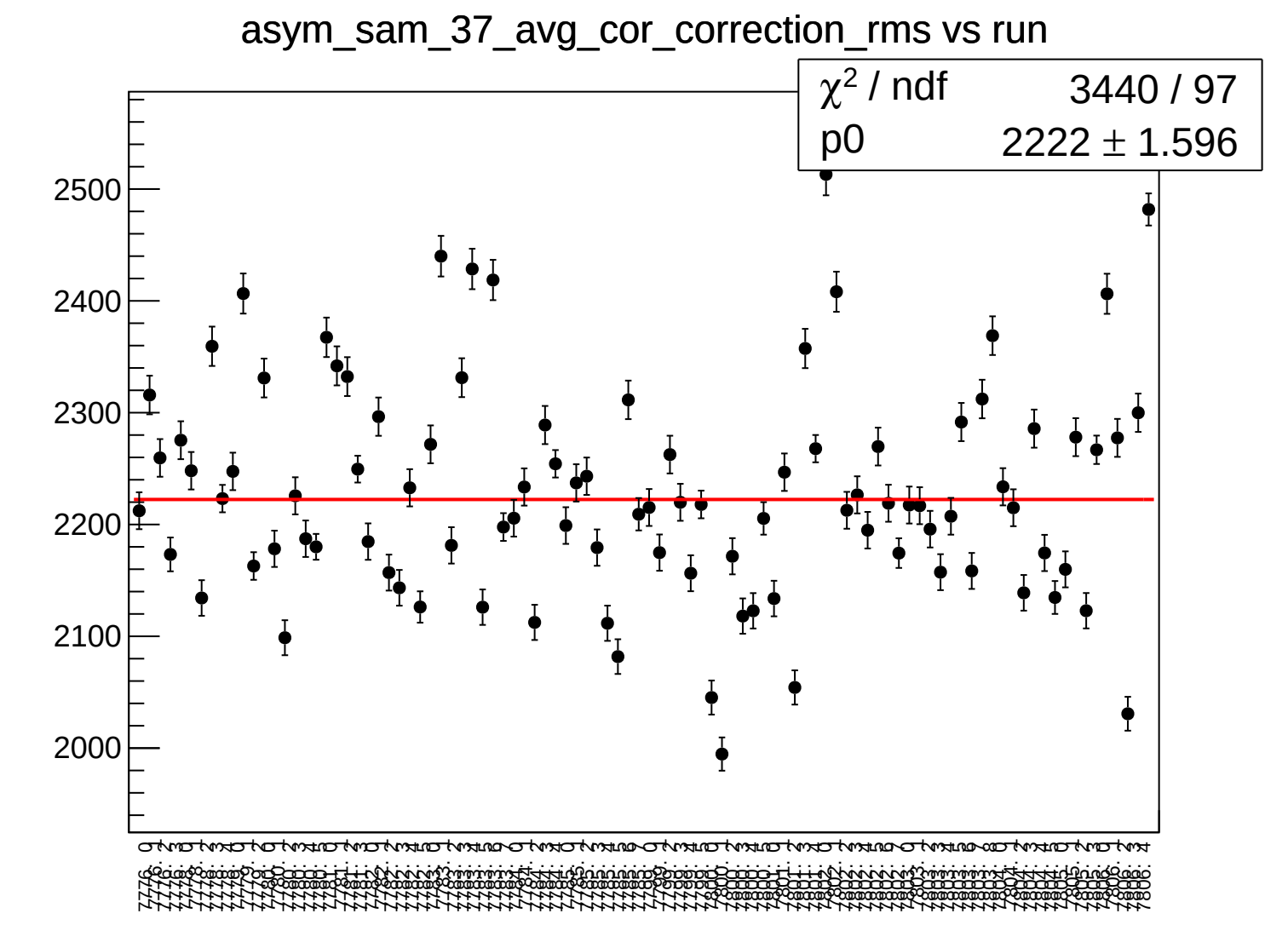

cor_asym_sam_37_avg_mean vs run
χ² / ndf 102.5 / 97
p0 −207.7 ± 220.6
pull
Entries 98
Mean 305.3
Std Dev 0

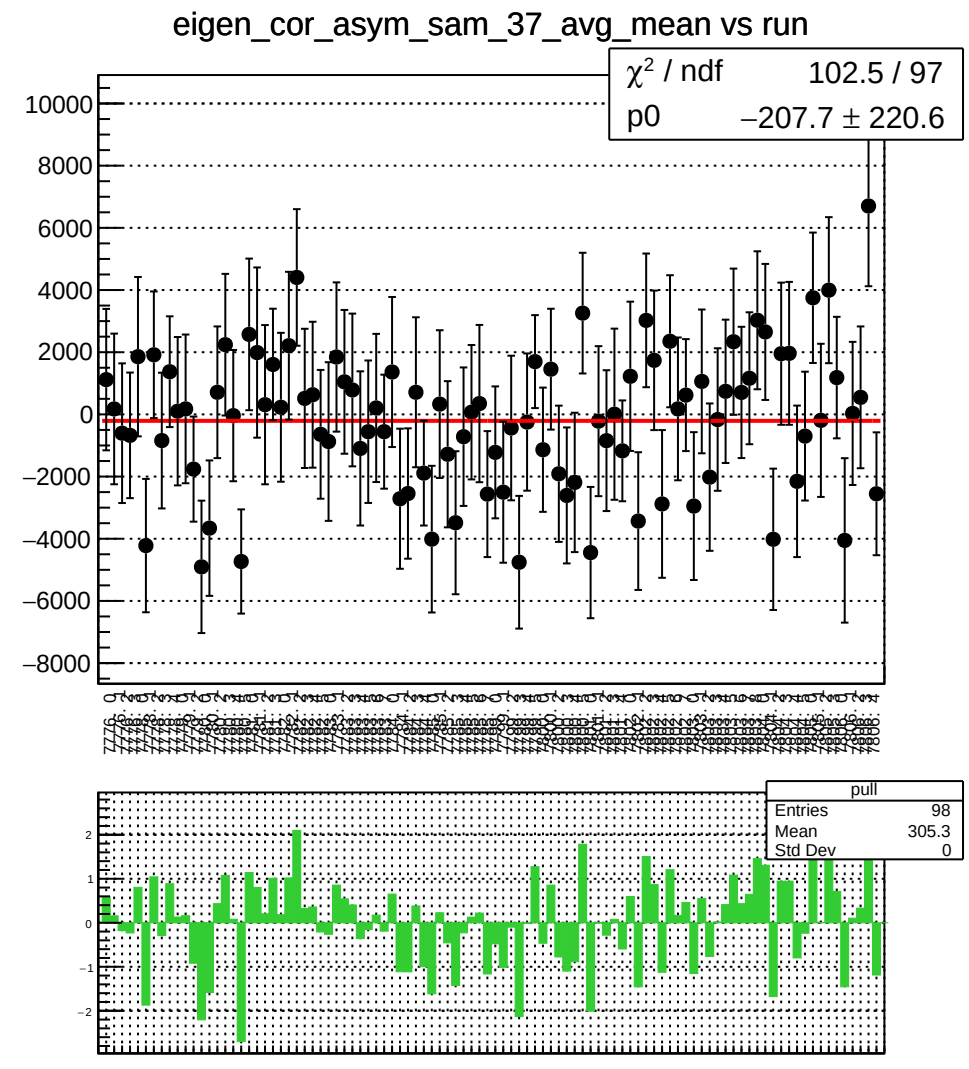

pull1D
Entries 98
Mean 0.01238
Std Dev 1.023

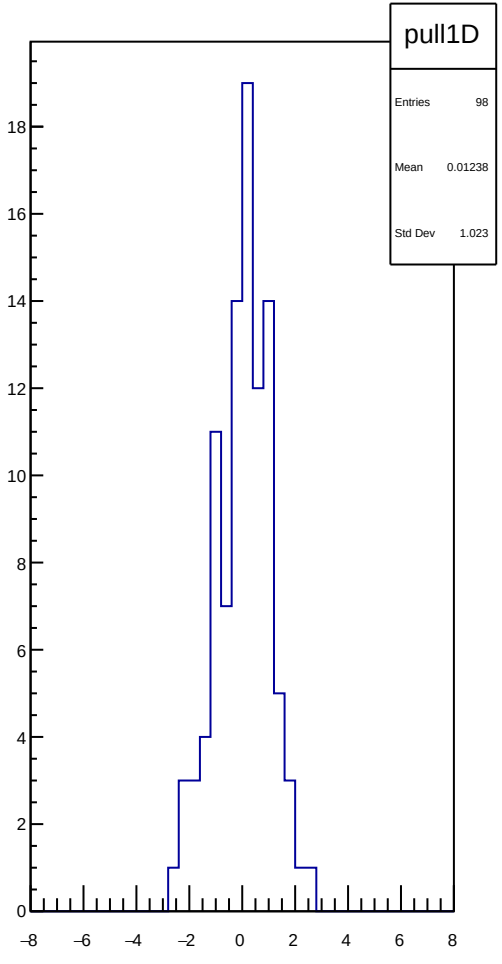

cor_asym_sam_37_avg_rms vs run
χ² / ndf 8591 / 97
p0 217 ± 0.156
270
260
250
240
230
220
210
200
190
180

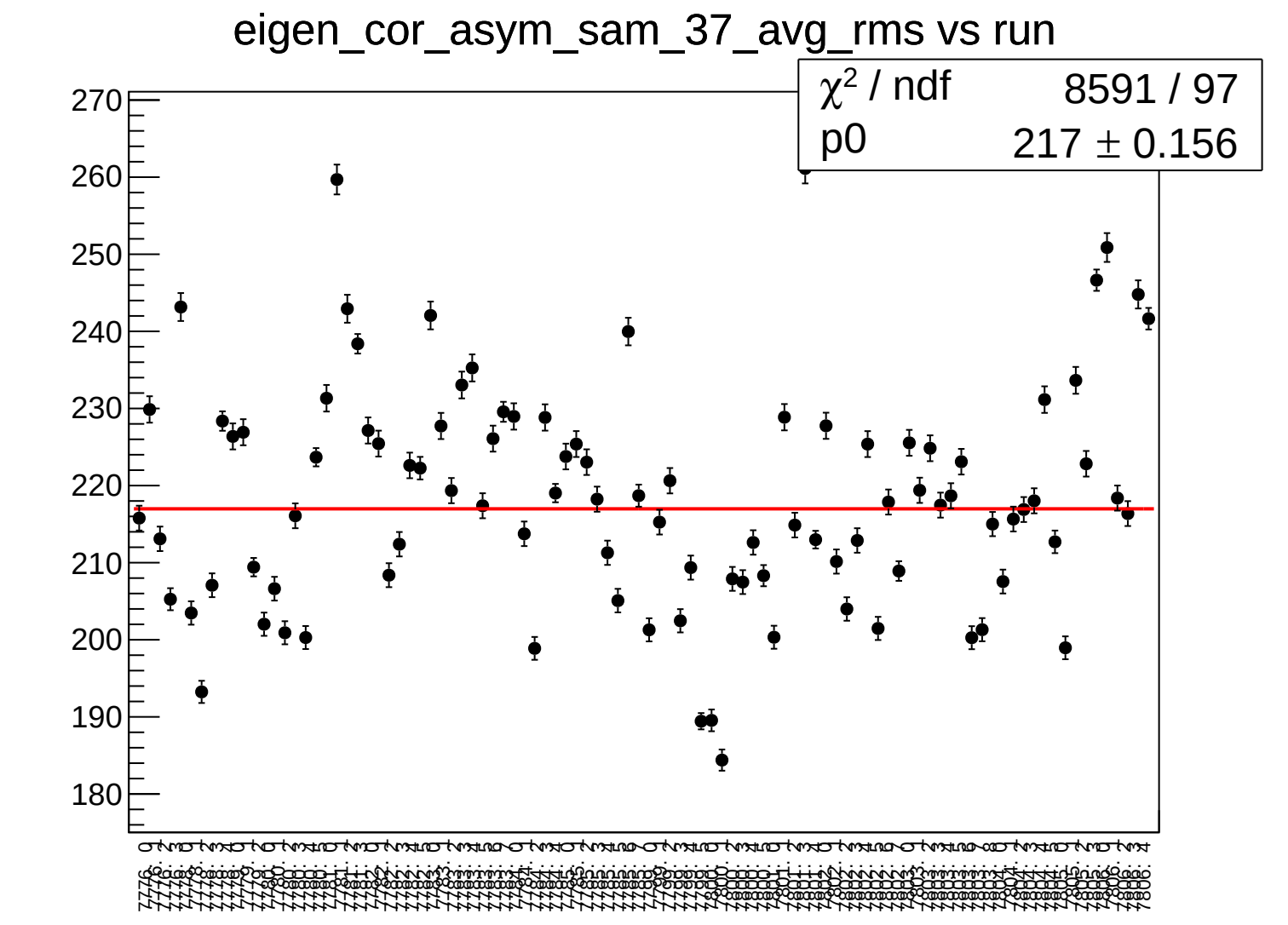

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 70.38 / 97
p0 −977.5 ± 2257
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −4481
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

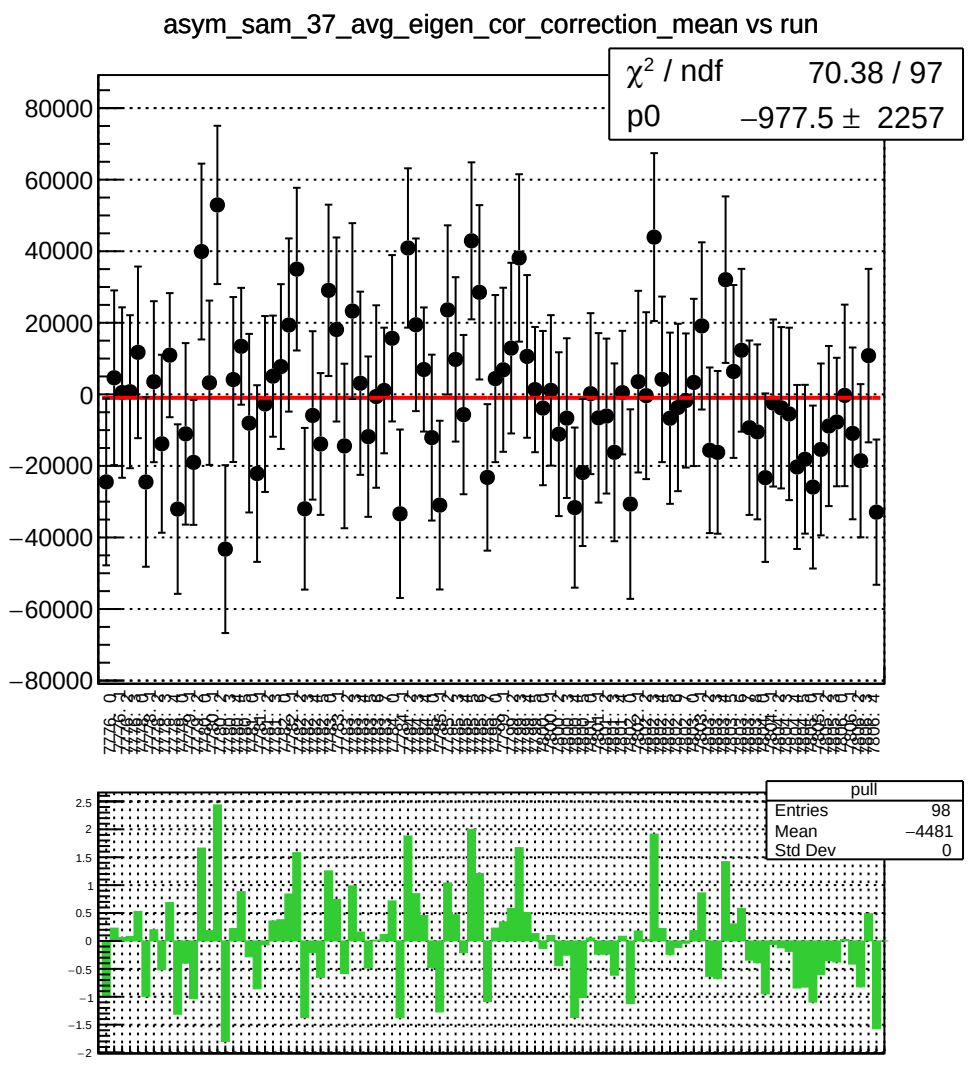

pull1D
Entries 98
Mean 0.0007842
Std Dev 0.8474
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

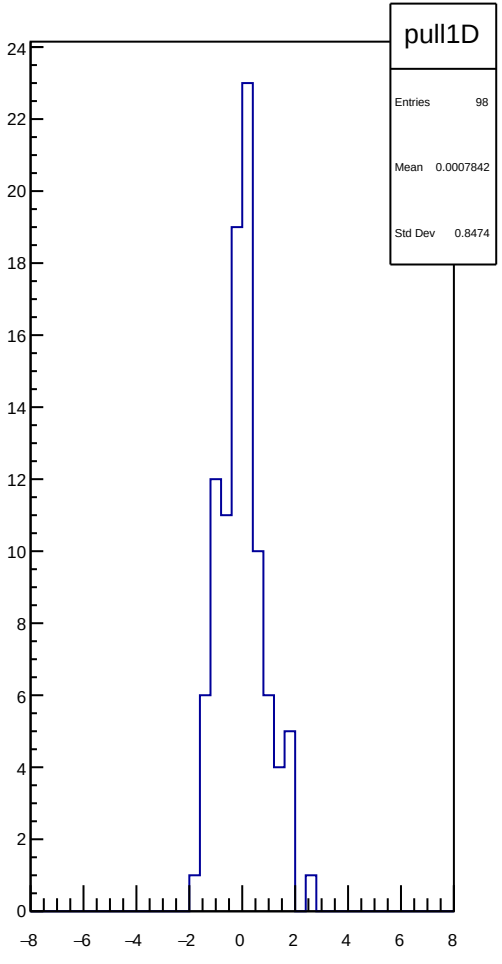

asym_sam_37_avg_cor_correction_rms vs run
χ^2 / ndf 3440 / 97
p0 2222 ± 1.596
2500
2400
2300
2200
2100
2000

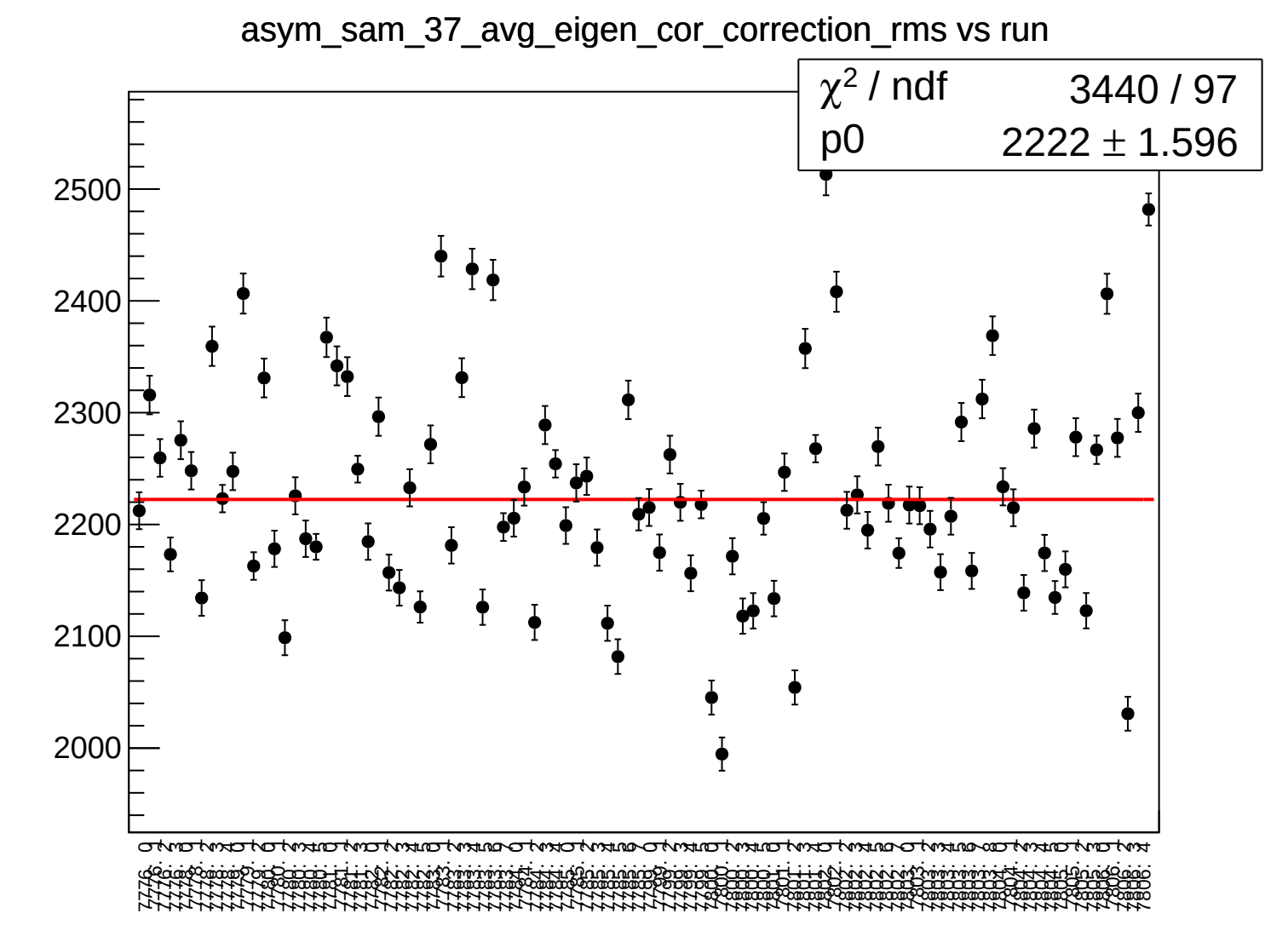

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 102.5 / 97
p0 −207.7 ± 220.6
pull
Entries 98
Mean 305.3
Std Dev 0

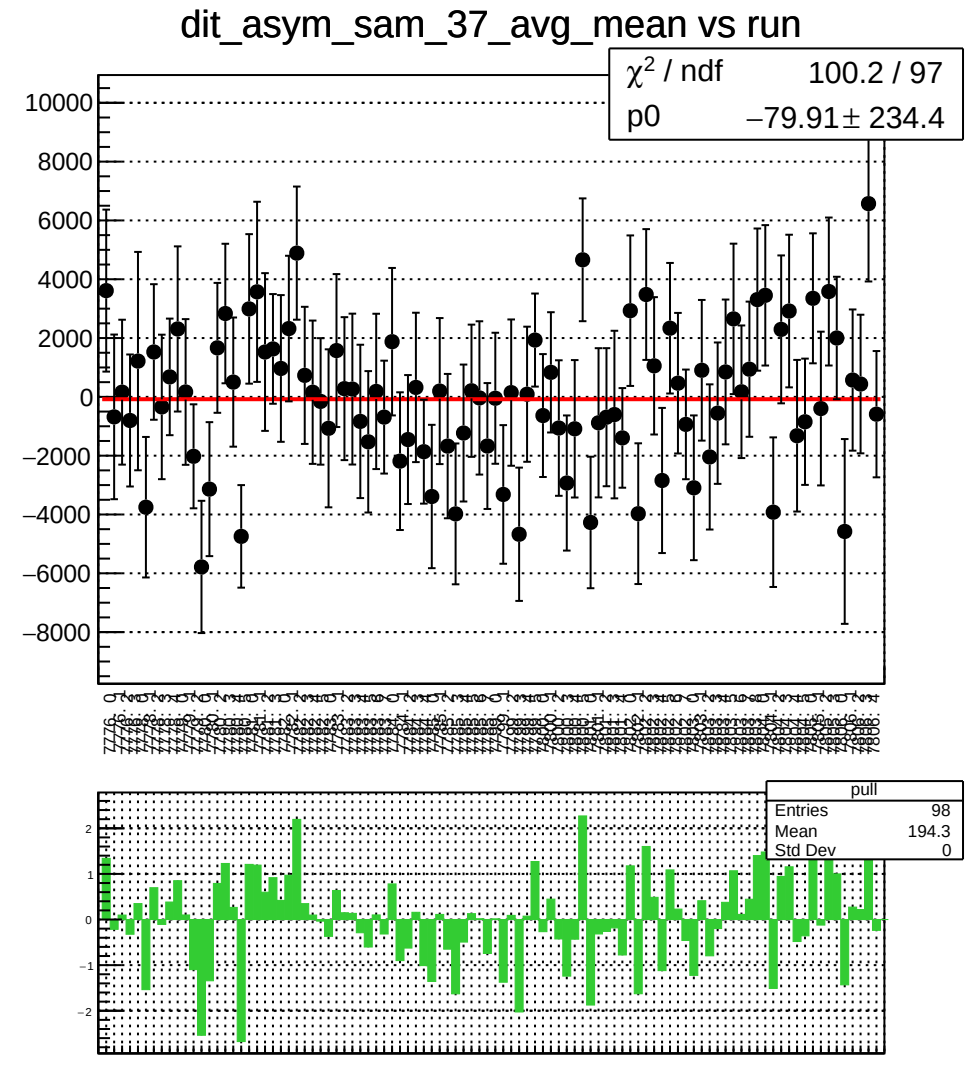

pull1D
Entries 98
Mean 0.01238
Std Dev 1.023

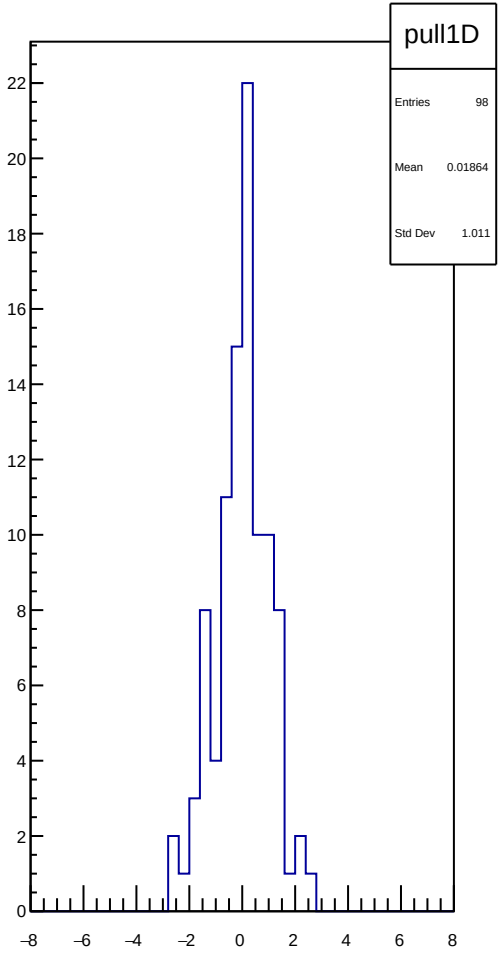

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 8591 / 97
p0 217 ± 0.156
270
260
250
240
230
220
210
200
190
180

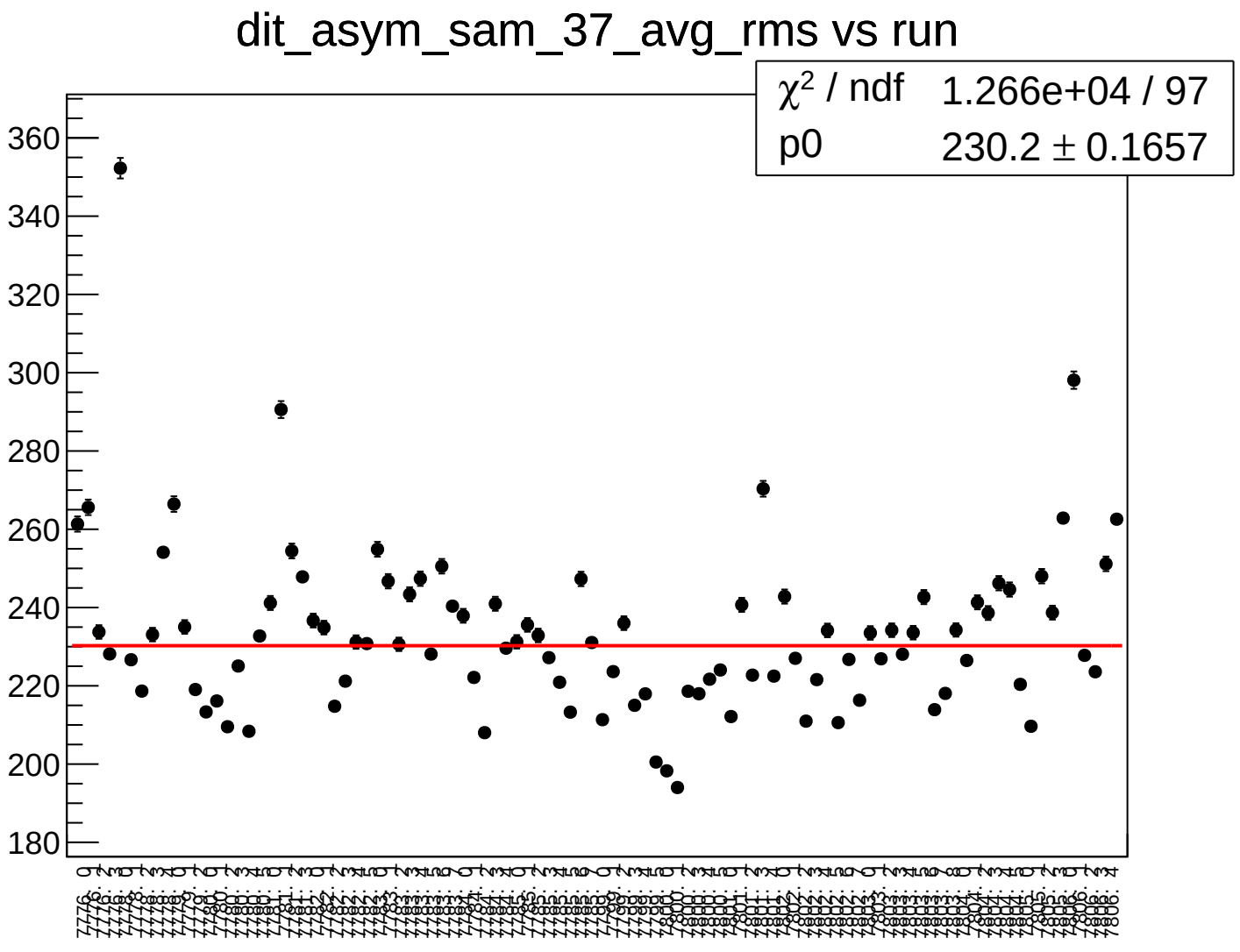

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.38 / 97
p0 −977.5 ± 2257
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −4481
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

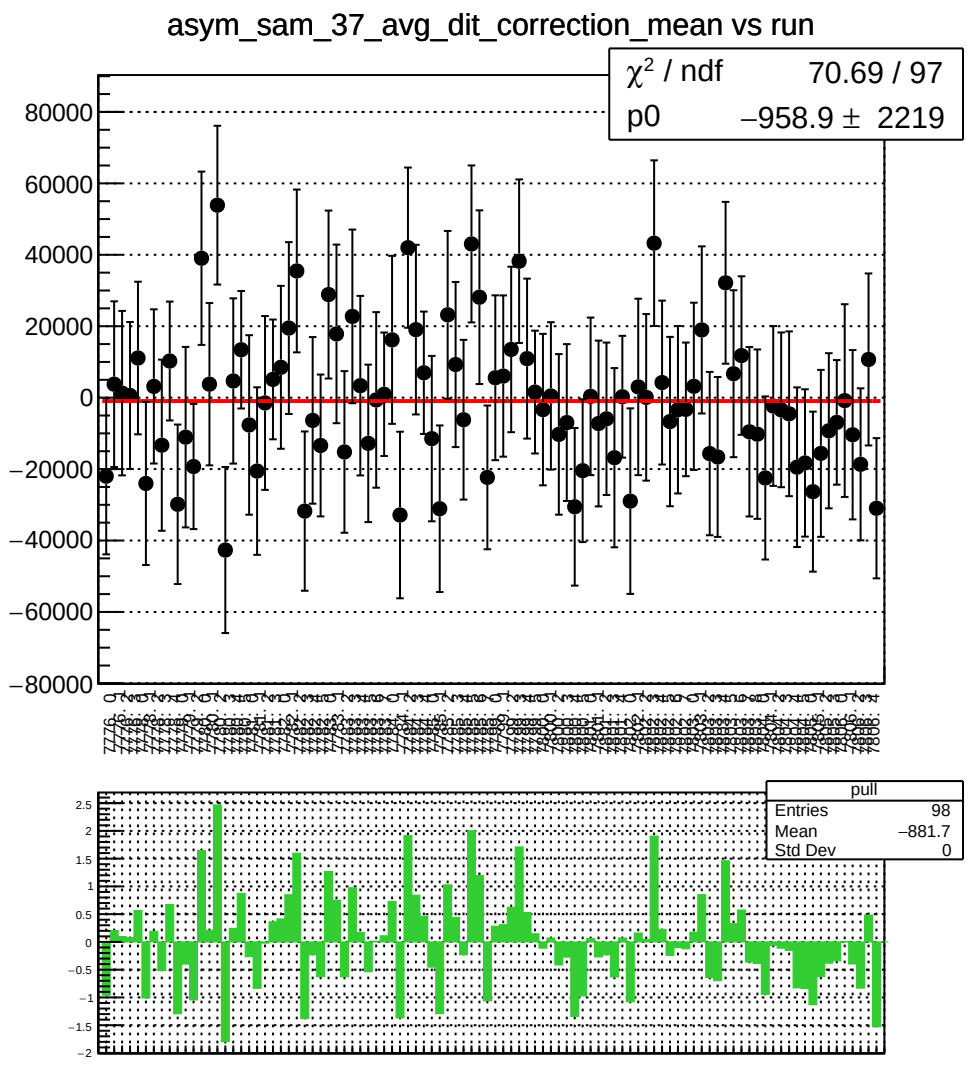

pull1D
Entries 98
Mean 0.0007842
Std Dev 0.8474
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

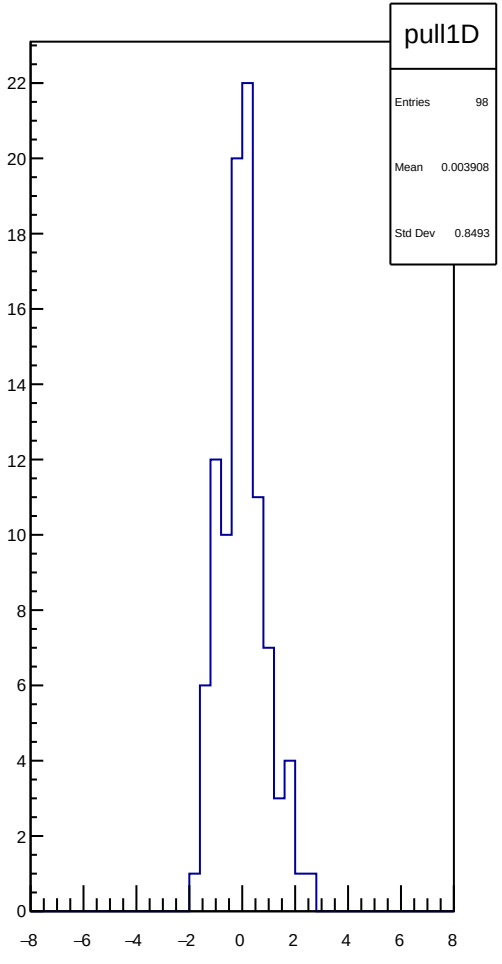

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 3440 / 97
p0 2222 ± 1.596
2500
2400
2300
2200
2100
2000

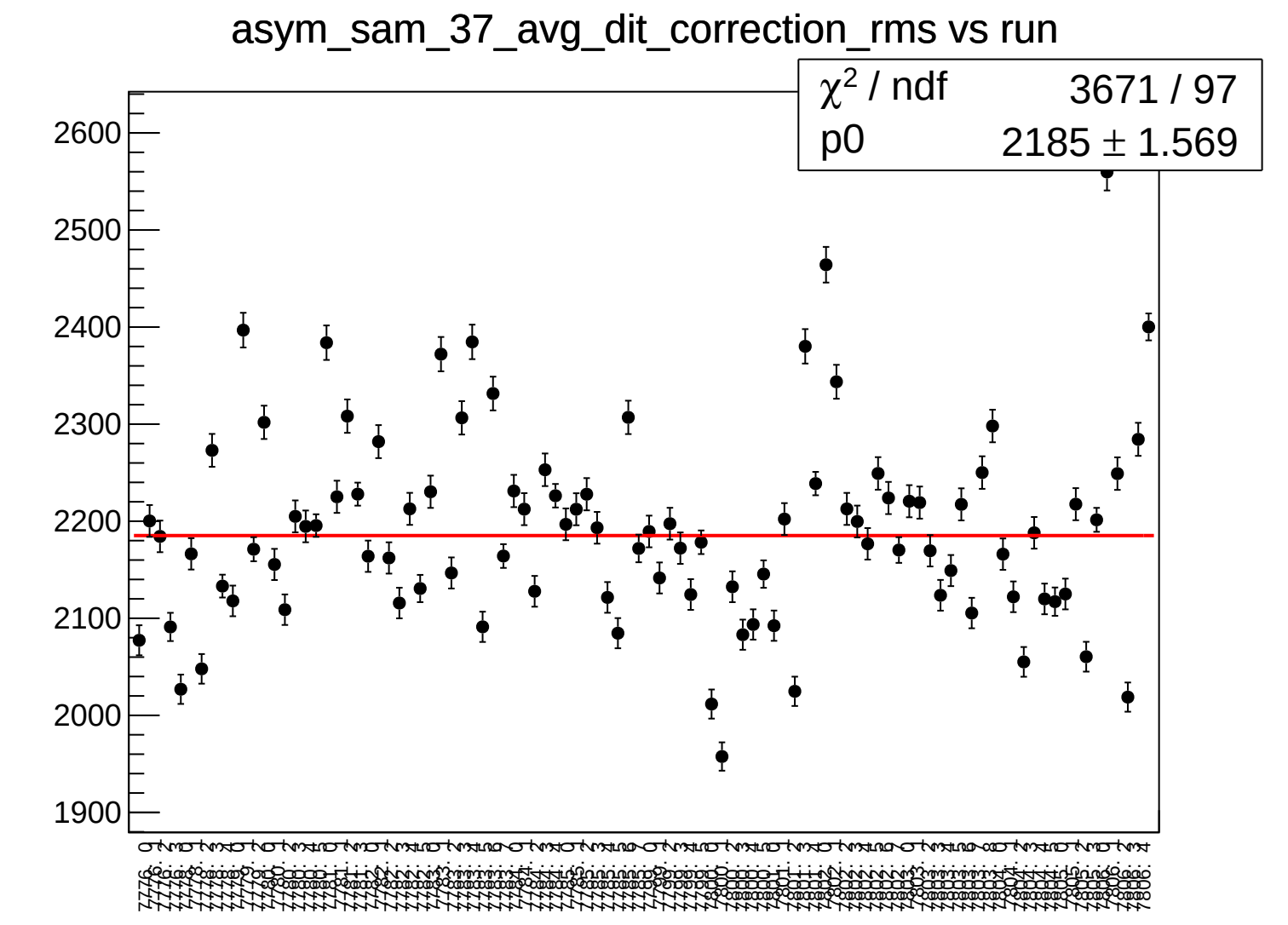

dit_asym_sam_37_avg_mean vs run
χ² / ndf 100.2 / 97
p0 −79.91 ± 234.4
pull
Entries 98
Mean 194.3
Std Dev 0

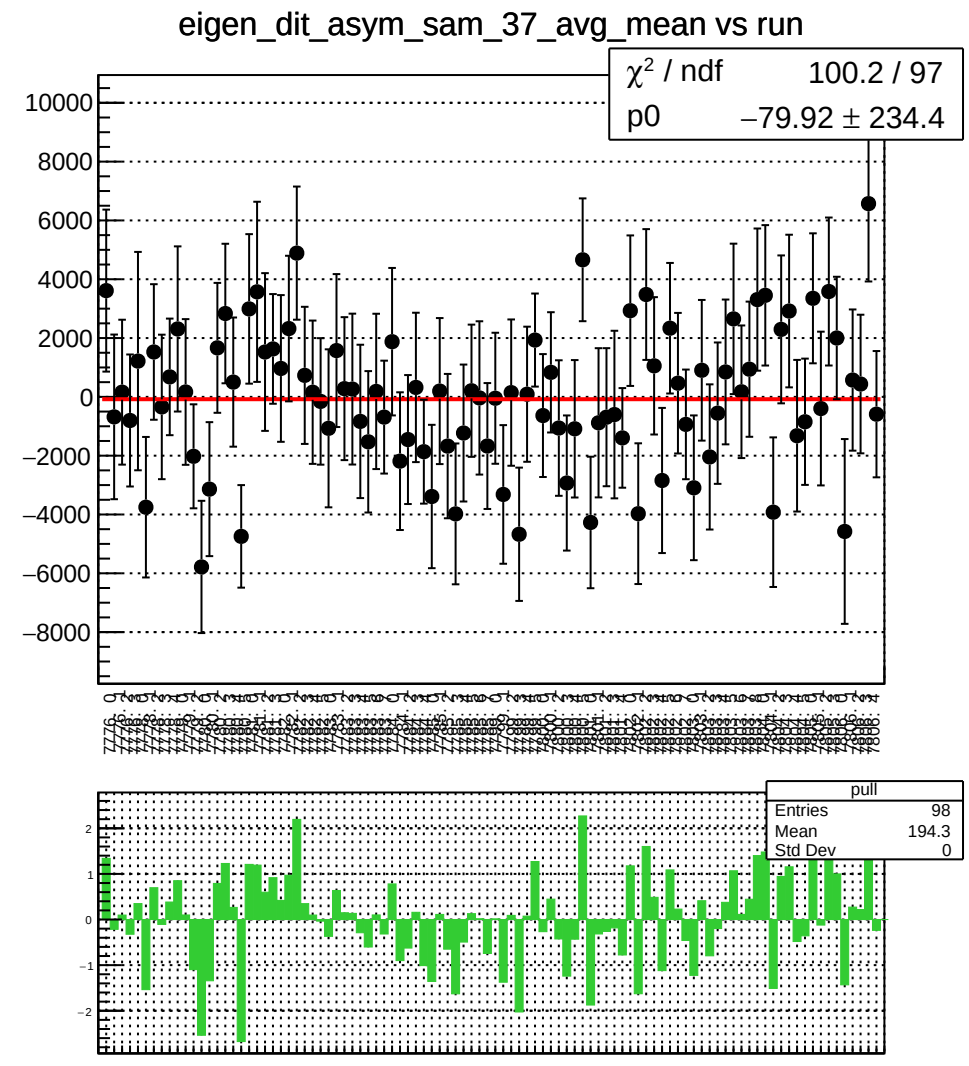

pull1D
Entries 98
Mean 0.01864
Std Dev 1.011

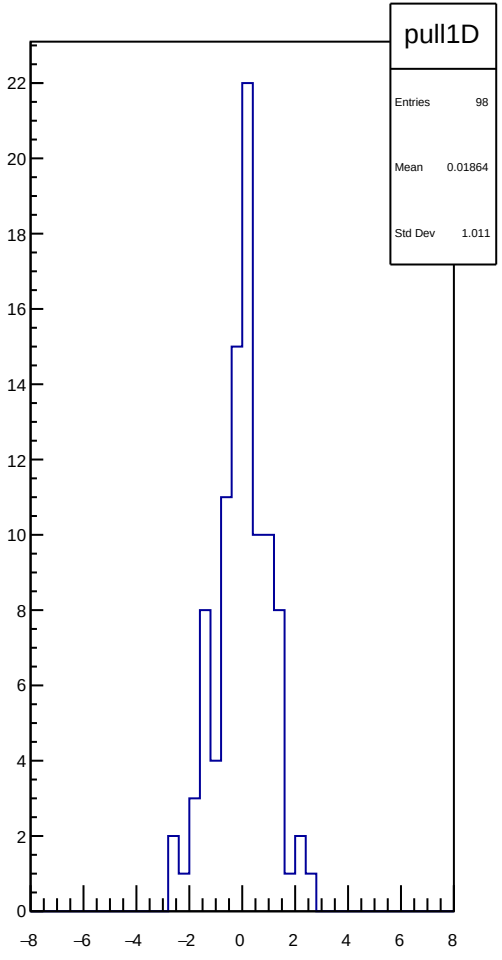

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.266e+04 / 97
p0 230.2 ± 0.1657
360
340
320
300
280
260
240
220
200
180

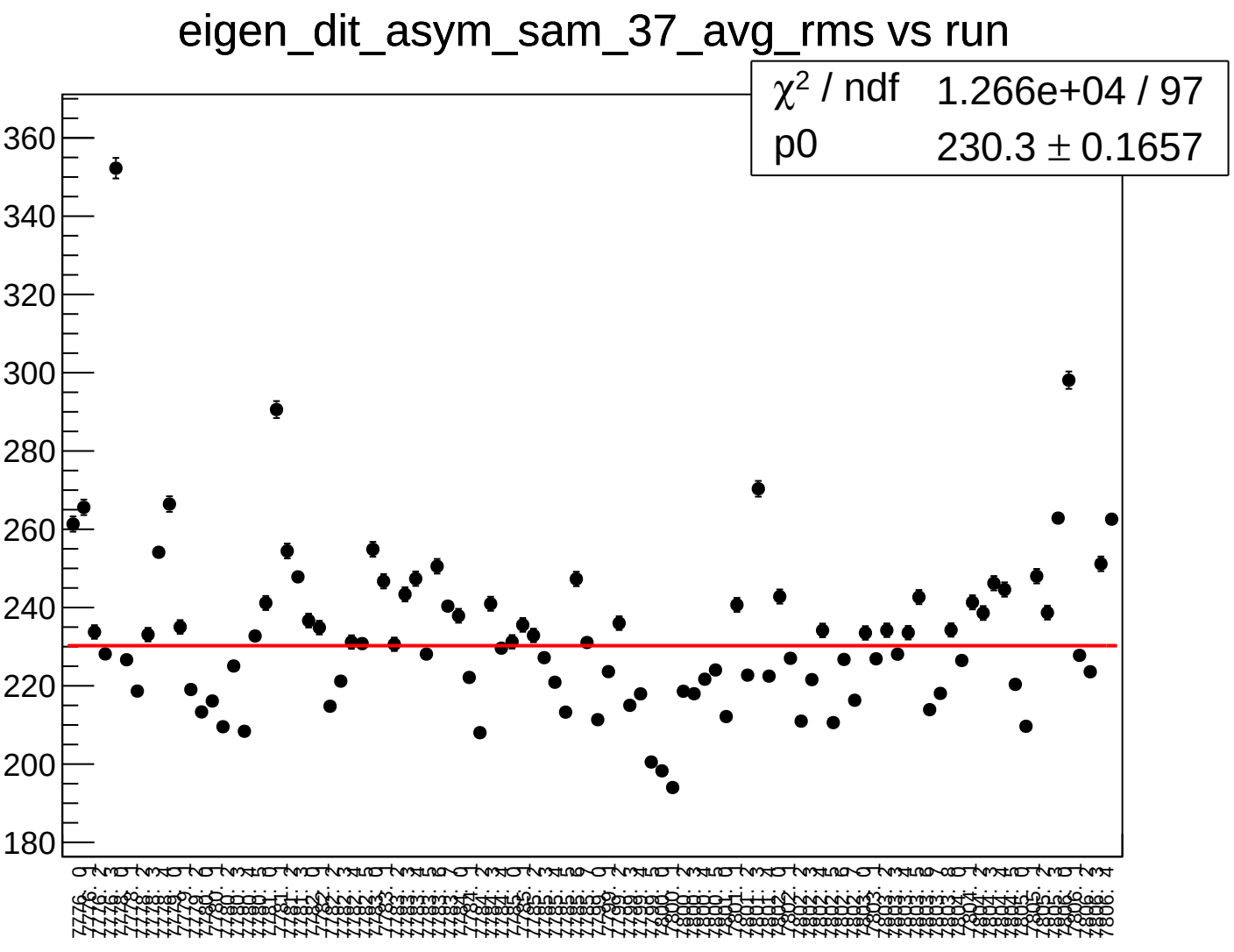

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 70.69 / 97
p0 −958.9 ± 2219
pull
Entries 98
Mean −881.7
Std Dev 0

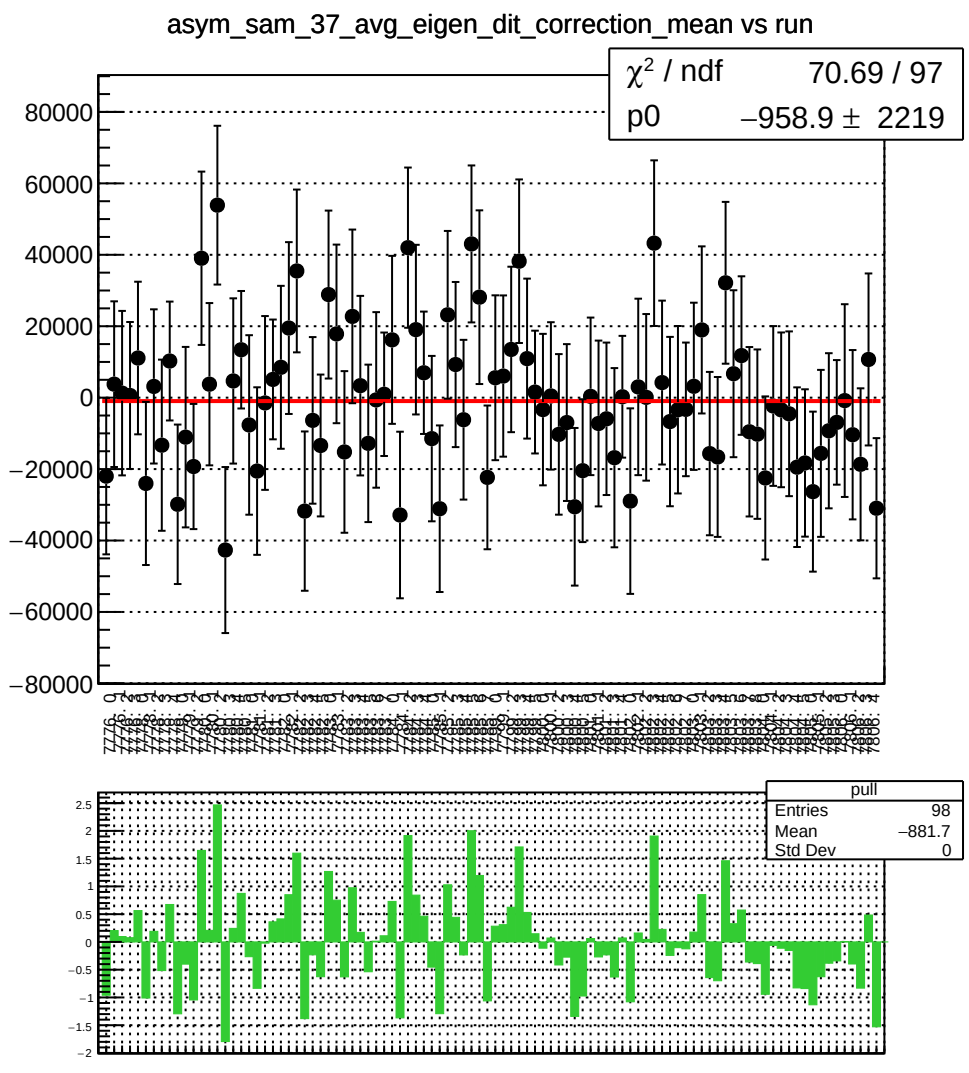

pull1D
Entries 98
Mean 0.003908
Std Dev 0.8493

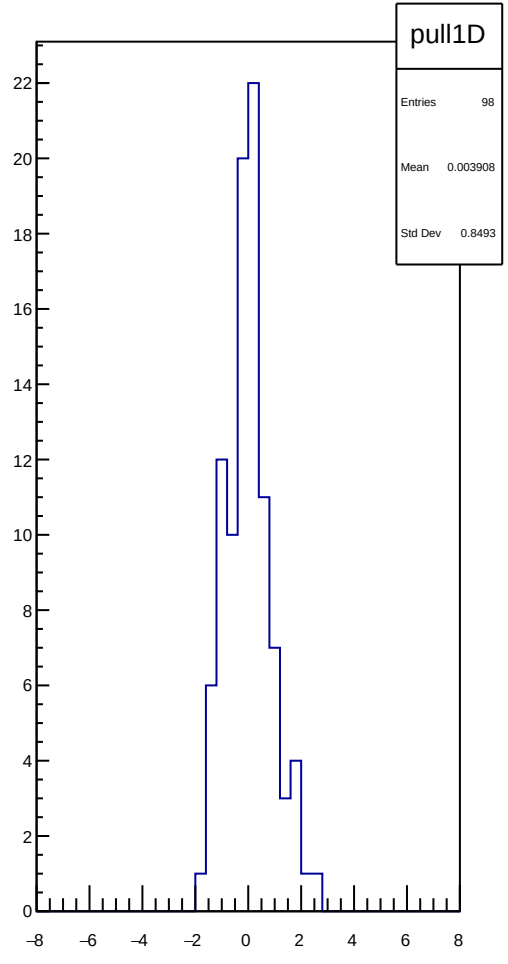

asym_sam_37_avg_dit_correction_rms vs run
χ^2 / ndf 3671 / 97
p0 2185 ± 1.569
2600
2500
2400
2300
2200
2100
2000
1900

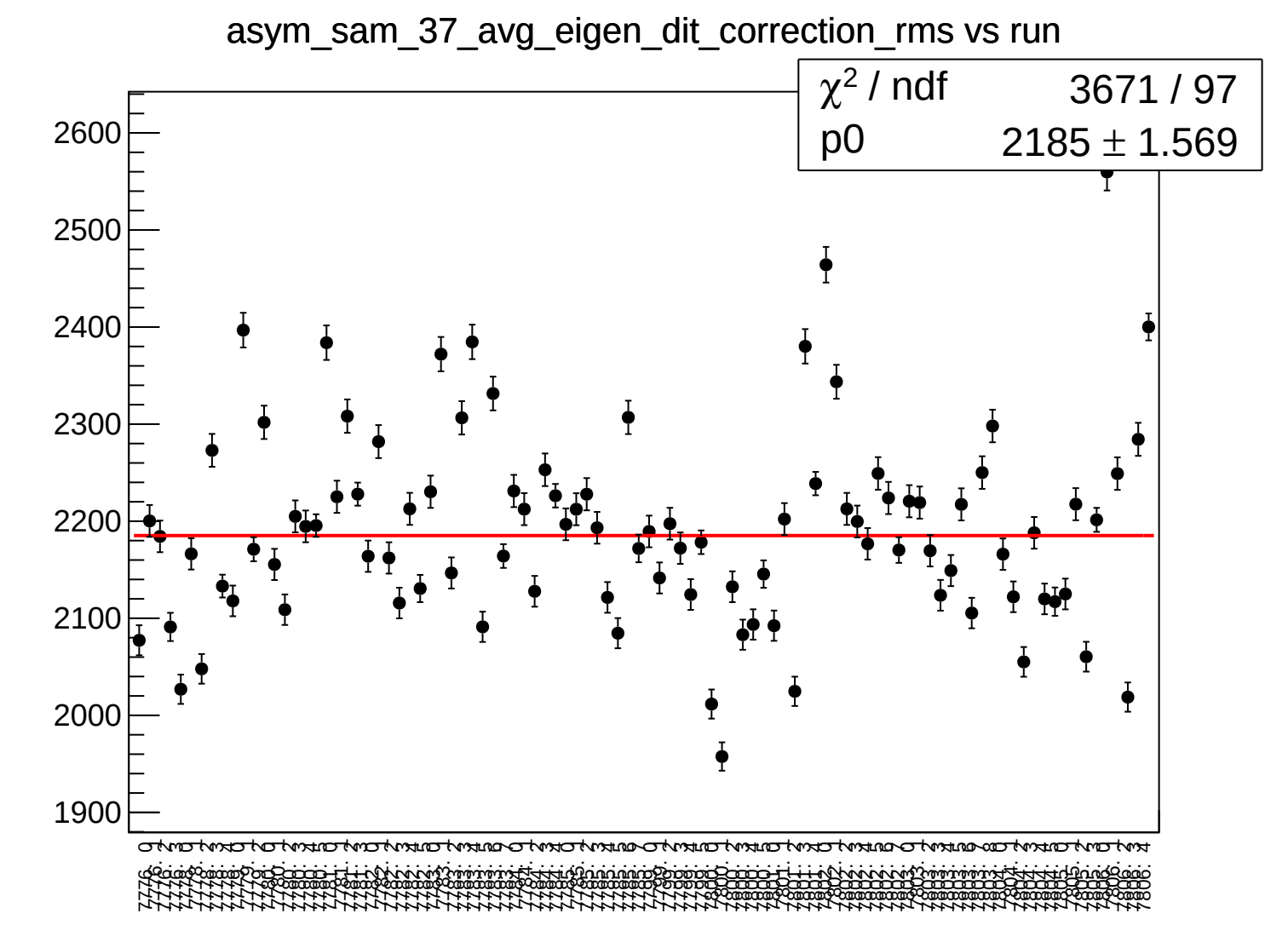

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 100.2 / 97
p0 −79.92 ± 234.4
pull
Entries 98
Mean 194.3
Std Dev 0

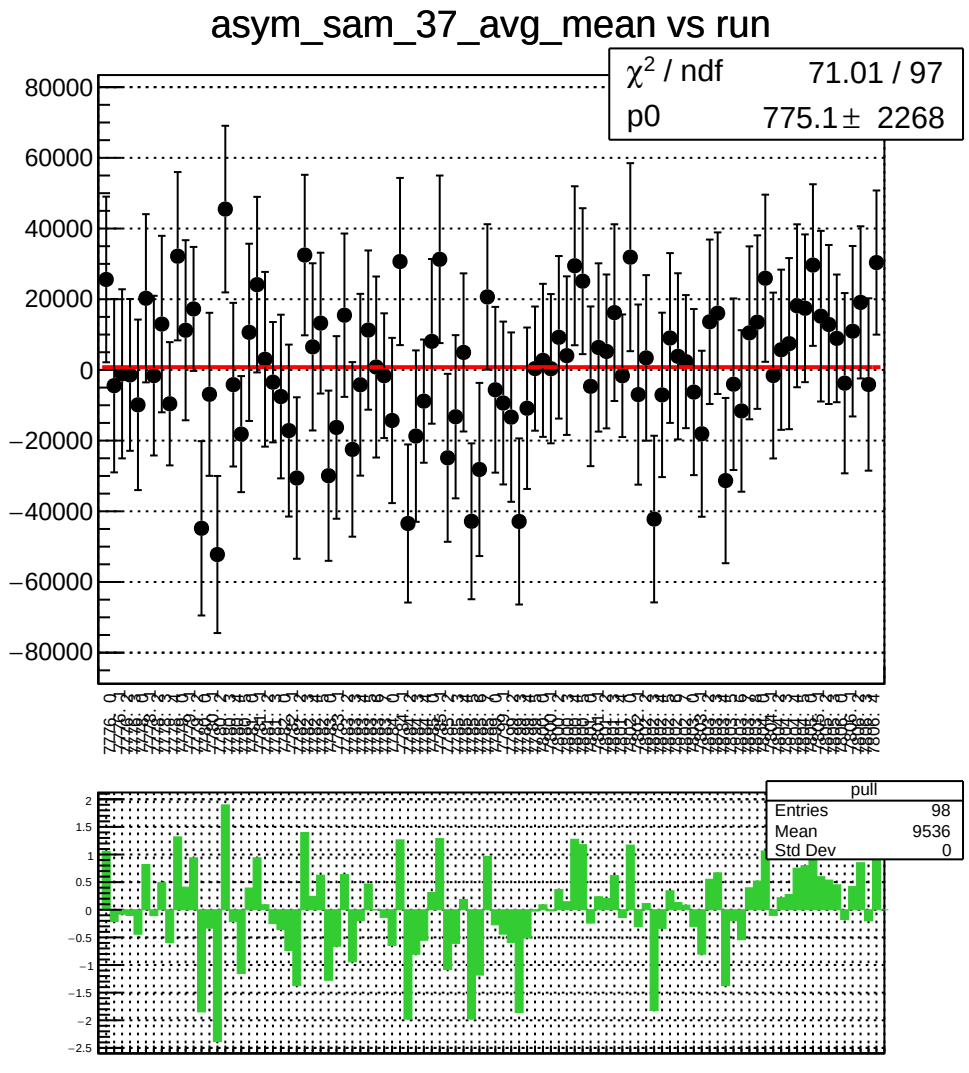

pull1D
Entries 98
Mean 0.01864
Std Dev 1.011

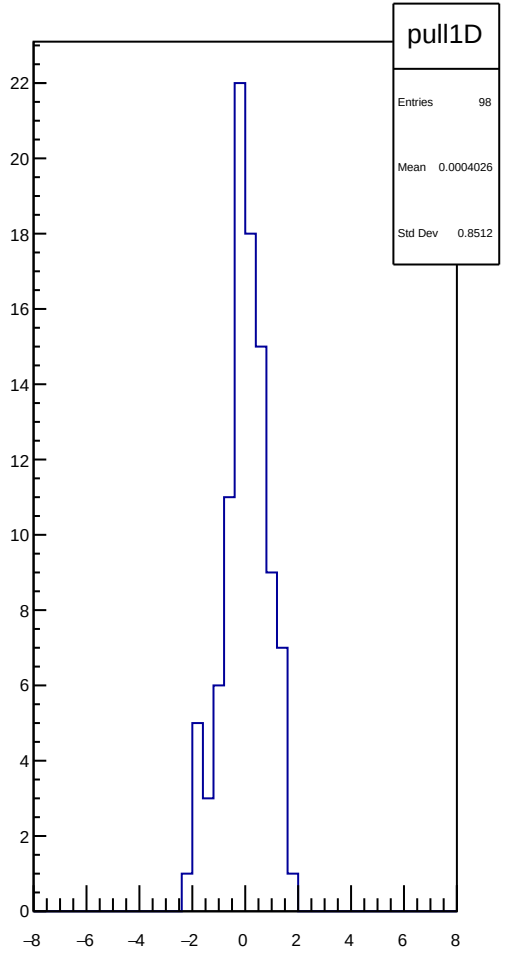

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.266e+04 / 97
p0 230.3 ± 0.1657
360
340
320
300
280
260
240
220
200
180

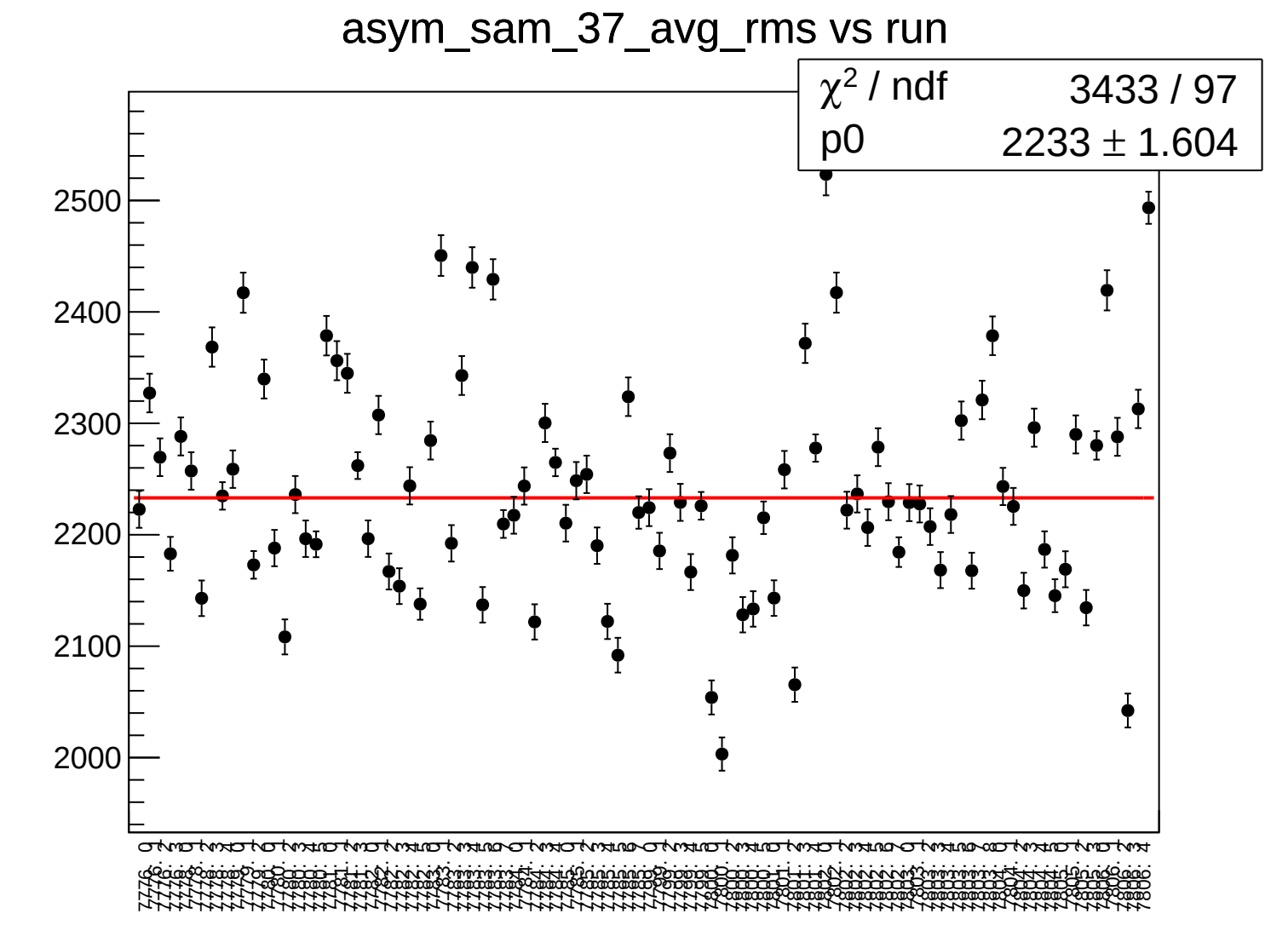

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.69 / 97
p0 −958.9 ± 2219
pull
Entries 98
Mean −881.7
Std Dev 0

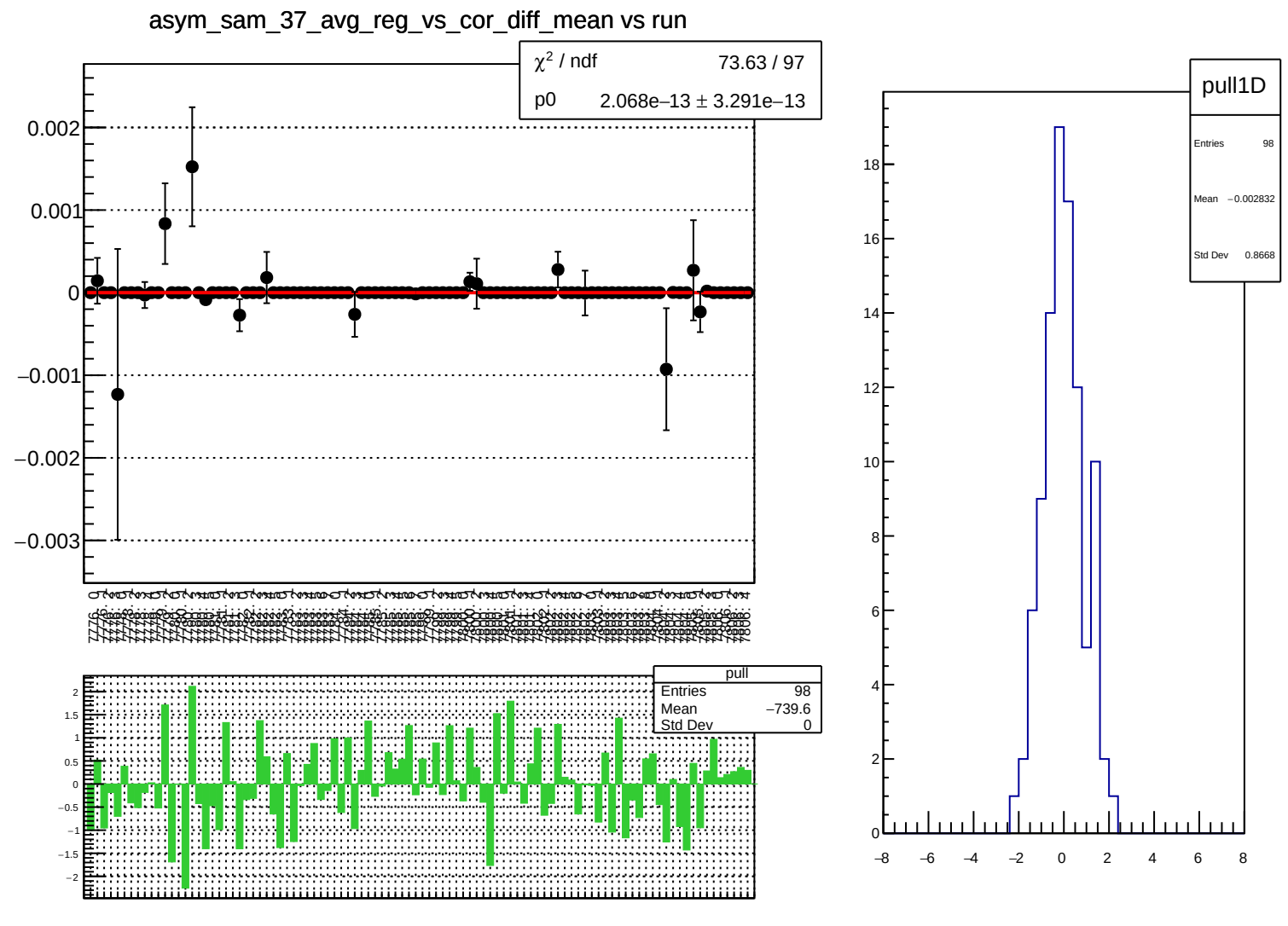

pull1D
Entries 98
Mean 0.003908
Std Dev 0.8493

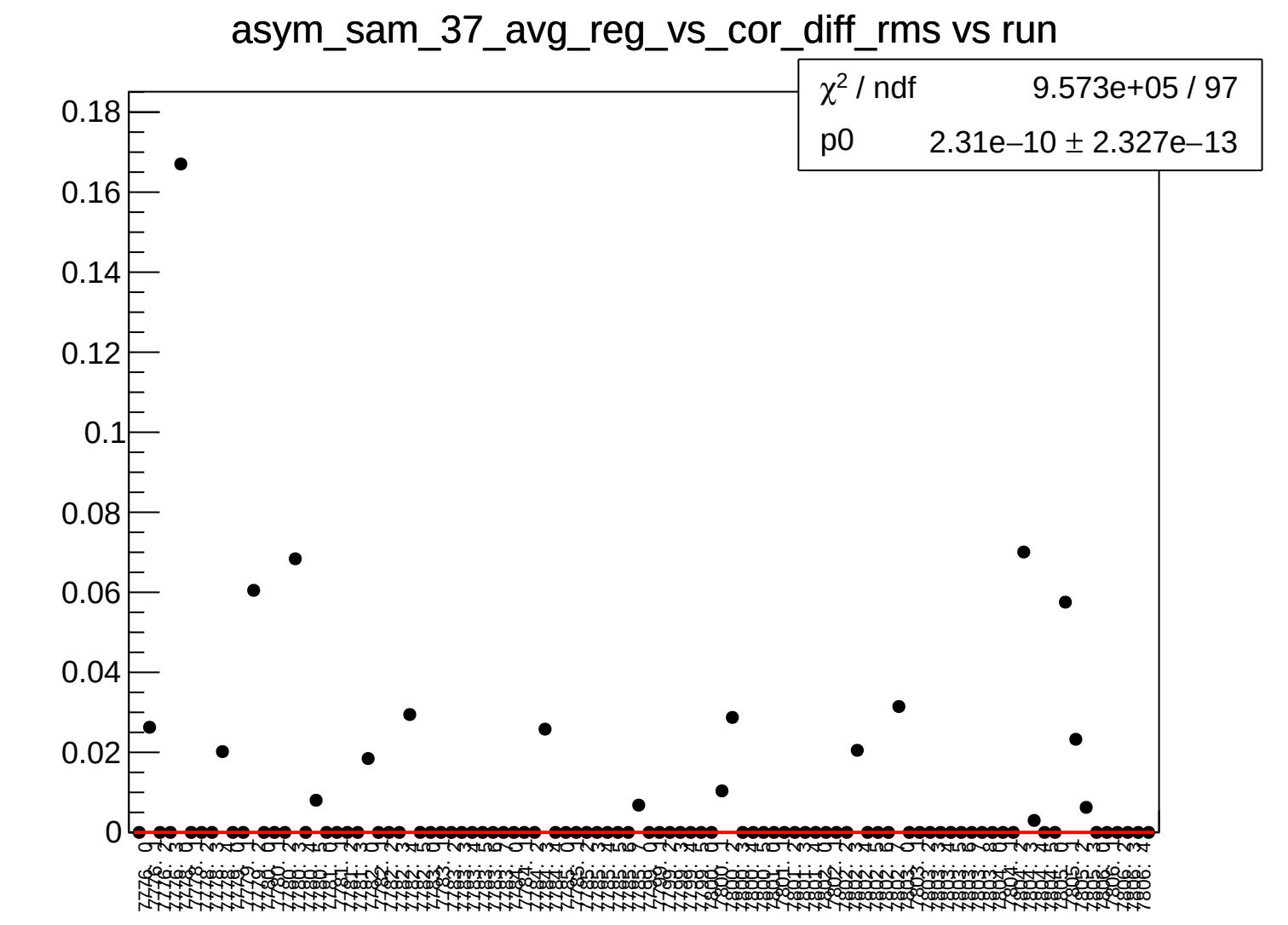

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3671 / 97
p0 2185 ± 1.569
2600
2500
2400
2300
2200
2100
2000
1900

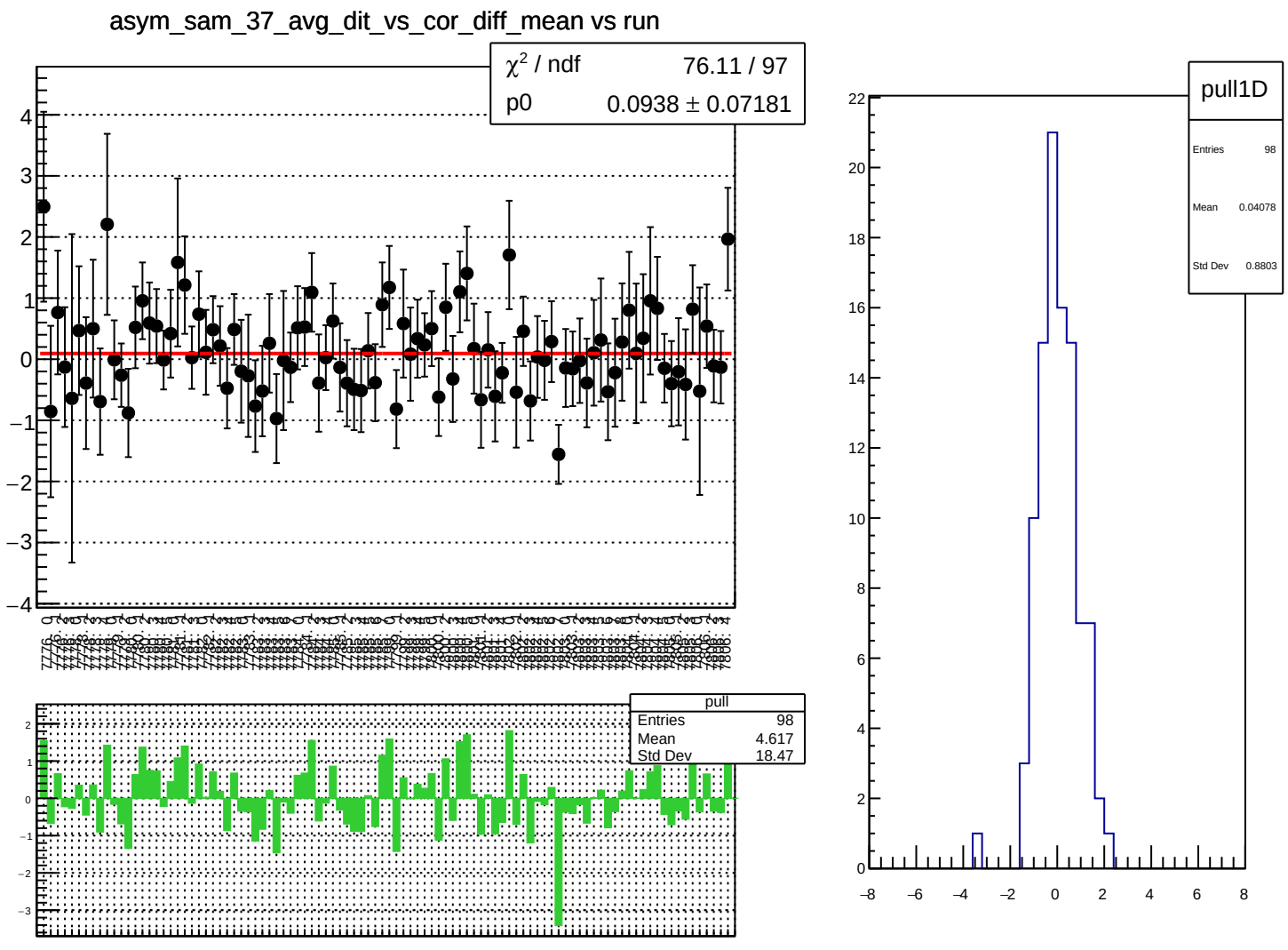

asym_sam_37_avg_mean vs run
χ² / ndf 71.01 / 97
p0 775.1± 2268
pull
Entries 98
Mean 9536
Std Dev 0

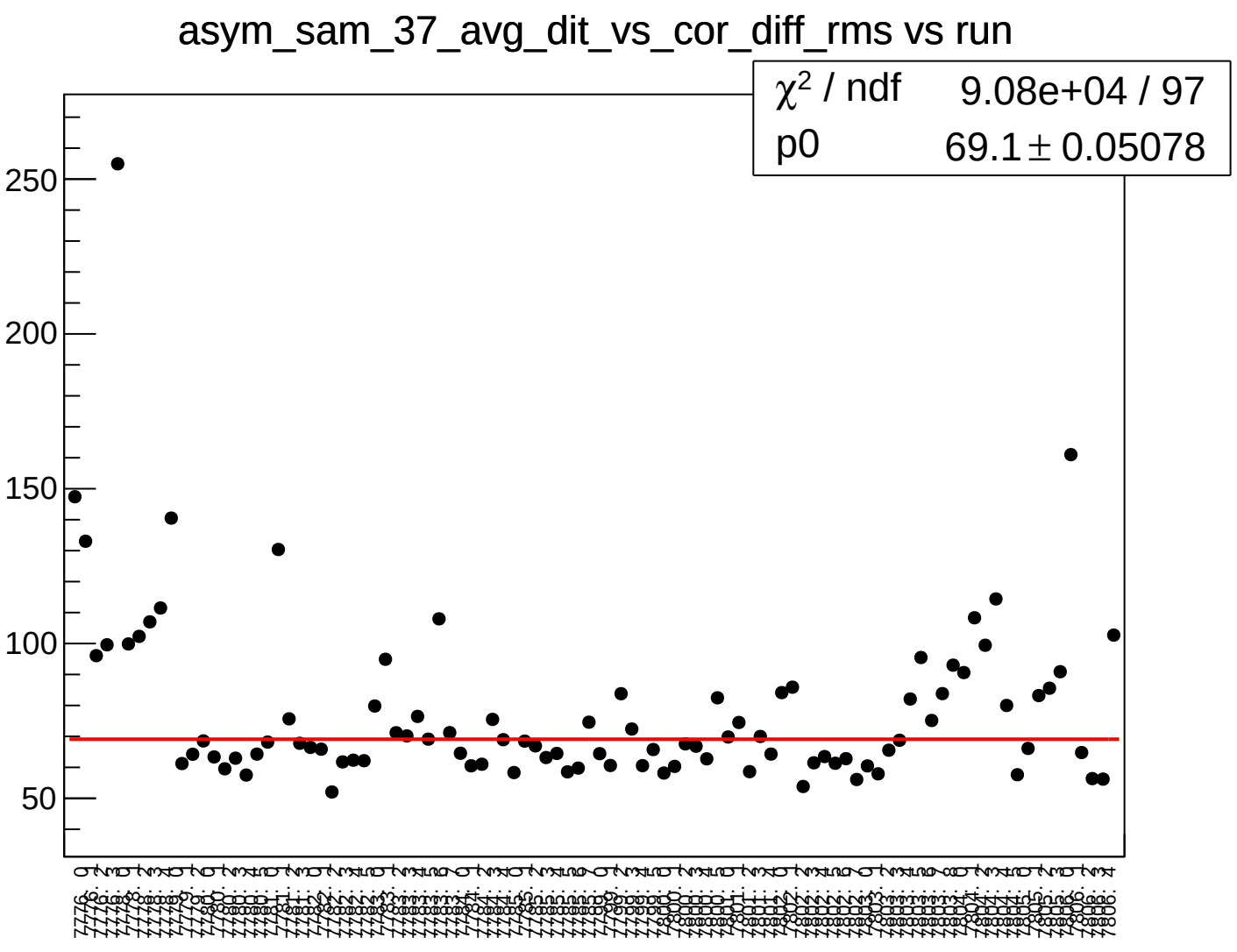

pull1D
Entries 98
Mean 0.0004026
Std Dev 0.8512


asym_sam_37_avg_rms vs run
χ² / ndf 3433 / 97
p0 2233 ± 1.604
2500
2400
2300
2200
2100
2000

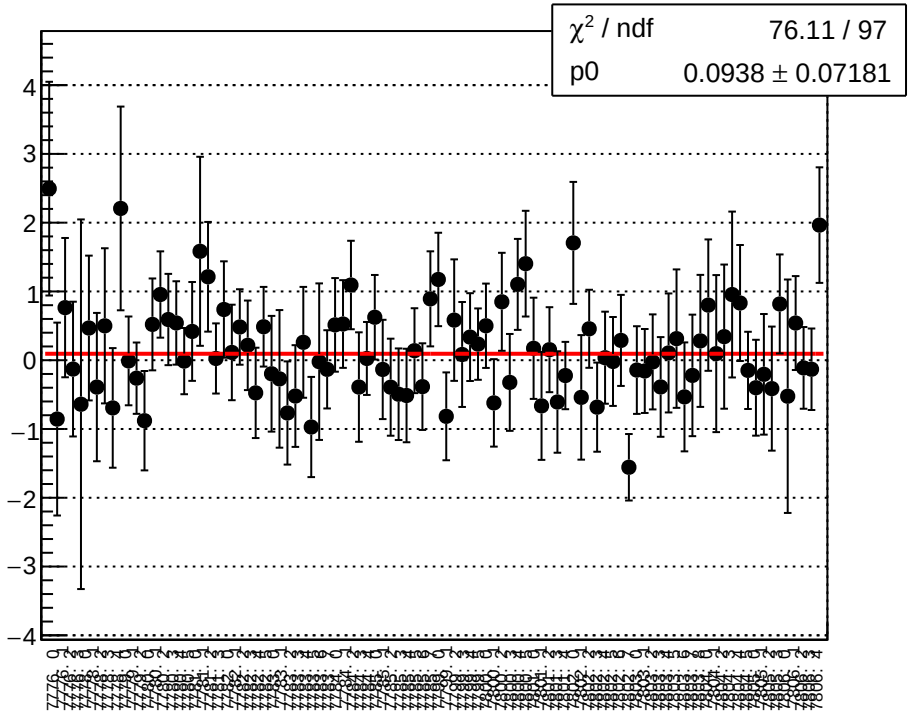

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.63 / 97
p0 2.068e−13 ± 3.291e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 98
Mean −739.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.002832
Std Dev 0.8668
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

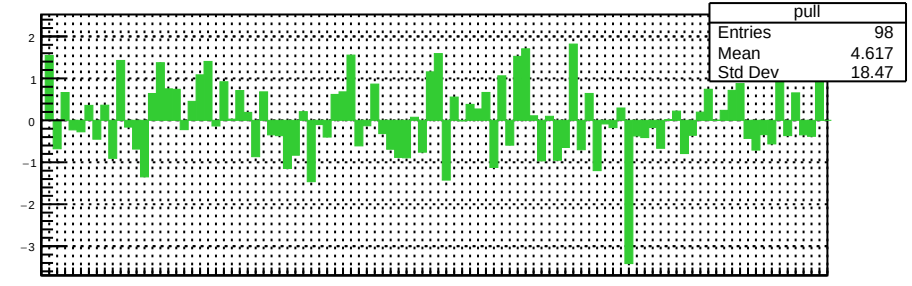

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.573e+05 / 97
p0 2.31e−10 ± 2.327e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

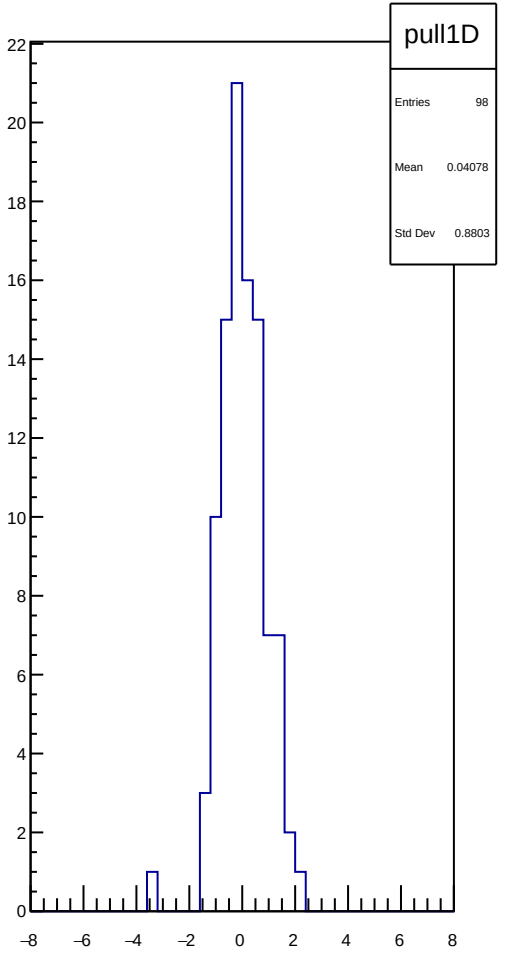

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.11 / 97
p0 0.0938 ± 0.07181
pull
Entries 98
Mean 4.617
Std Dev 18.47
pull1D
Entries 98
Mean 0.04078
Std Dev 0.8803

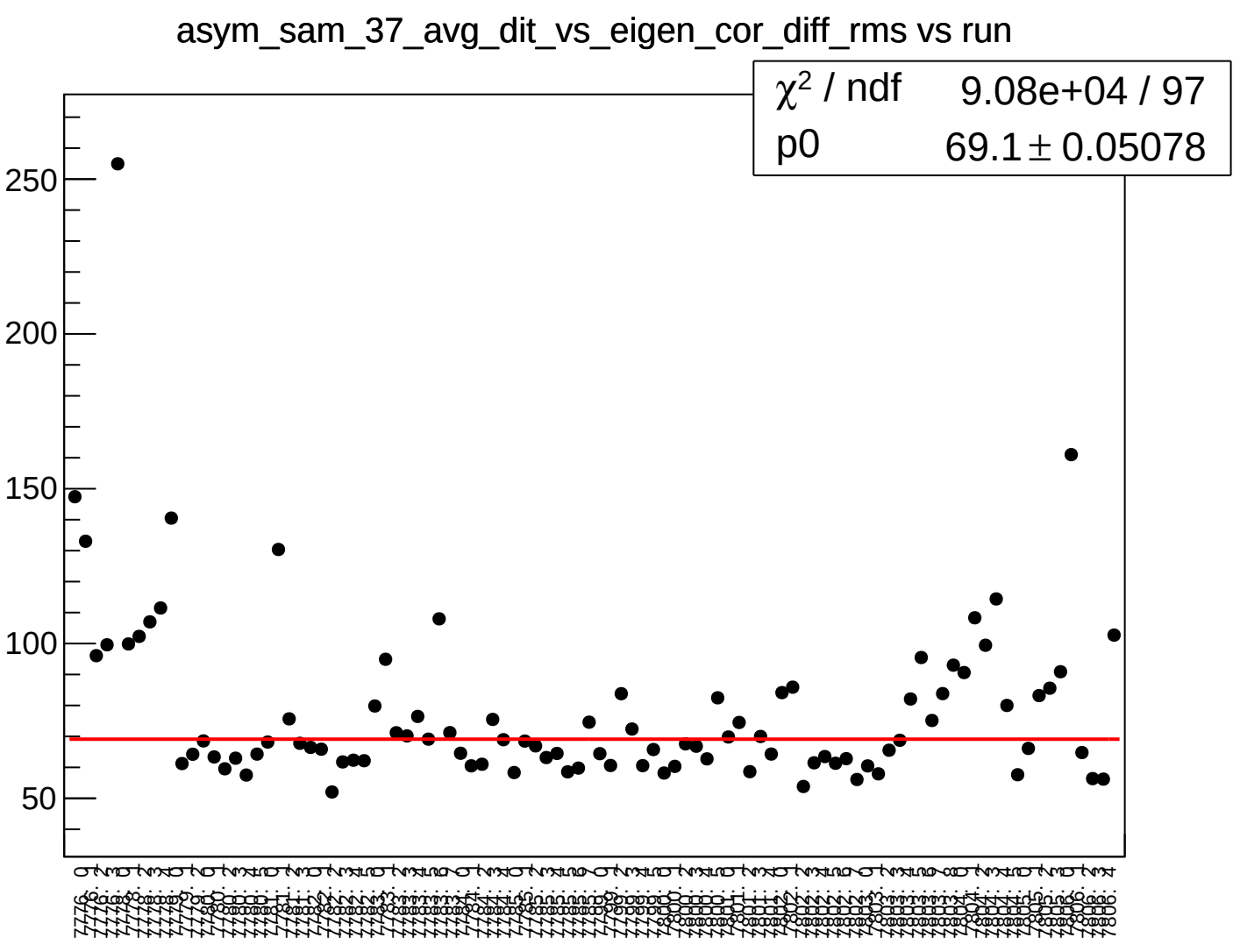

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.08e+04 / 97
p0 69.1 ± 0.05078
250
200
150
100
50

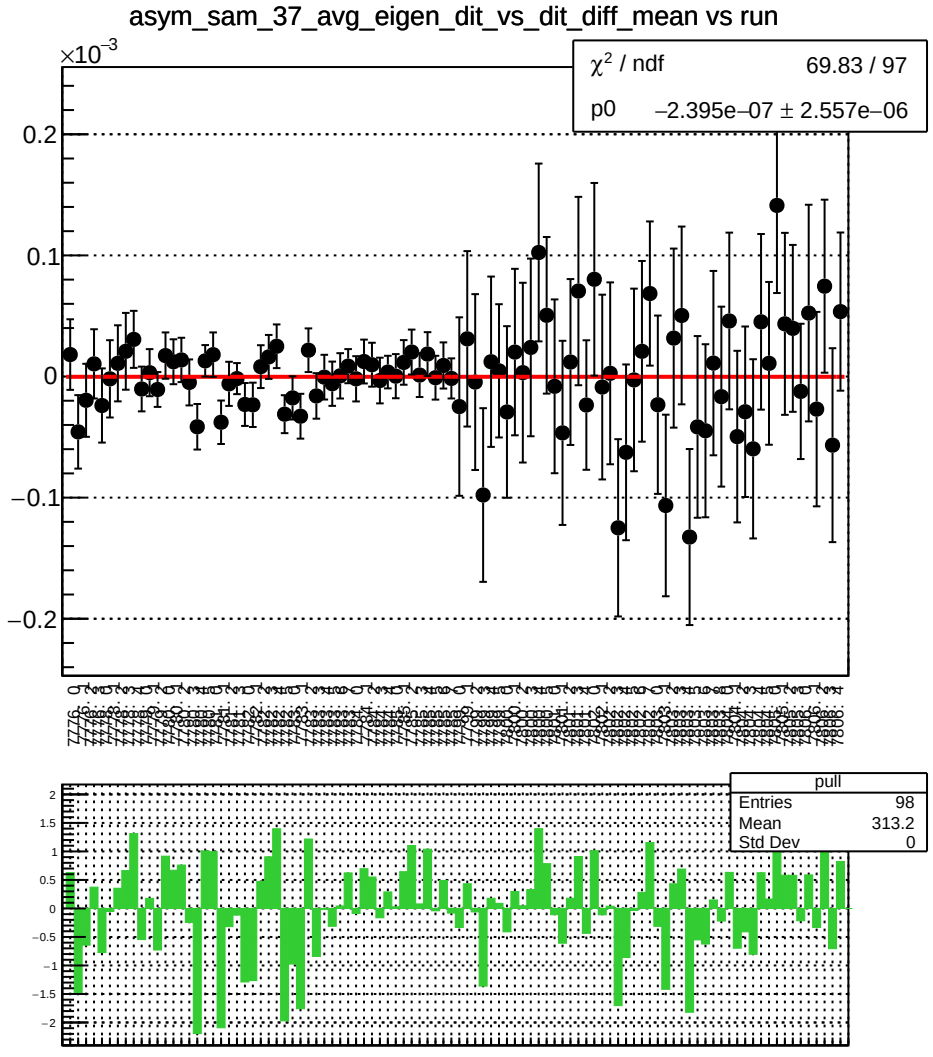
asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run

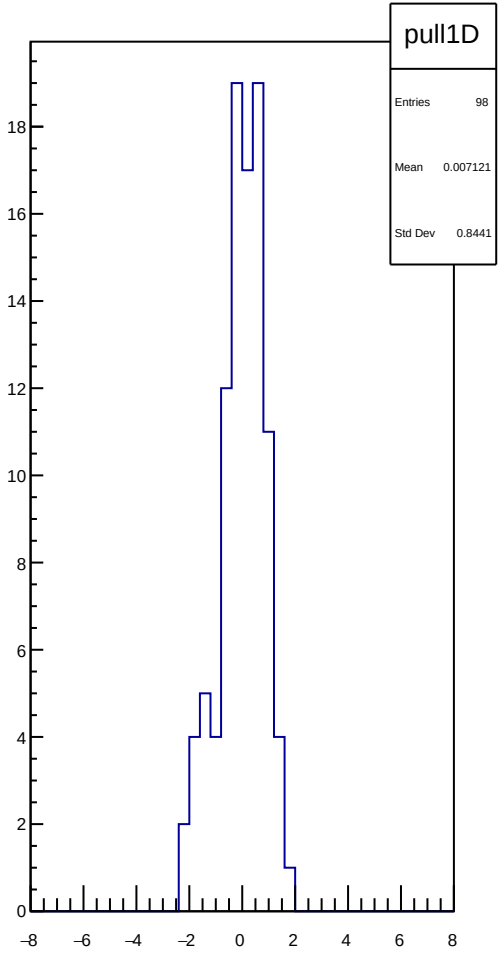


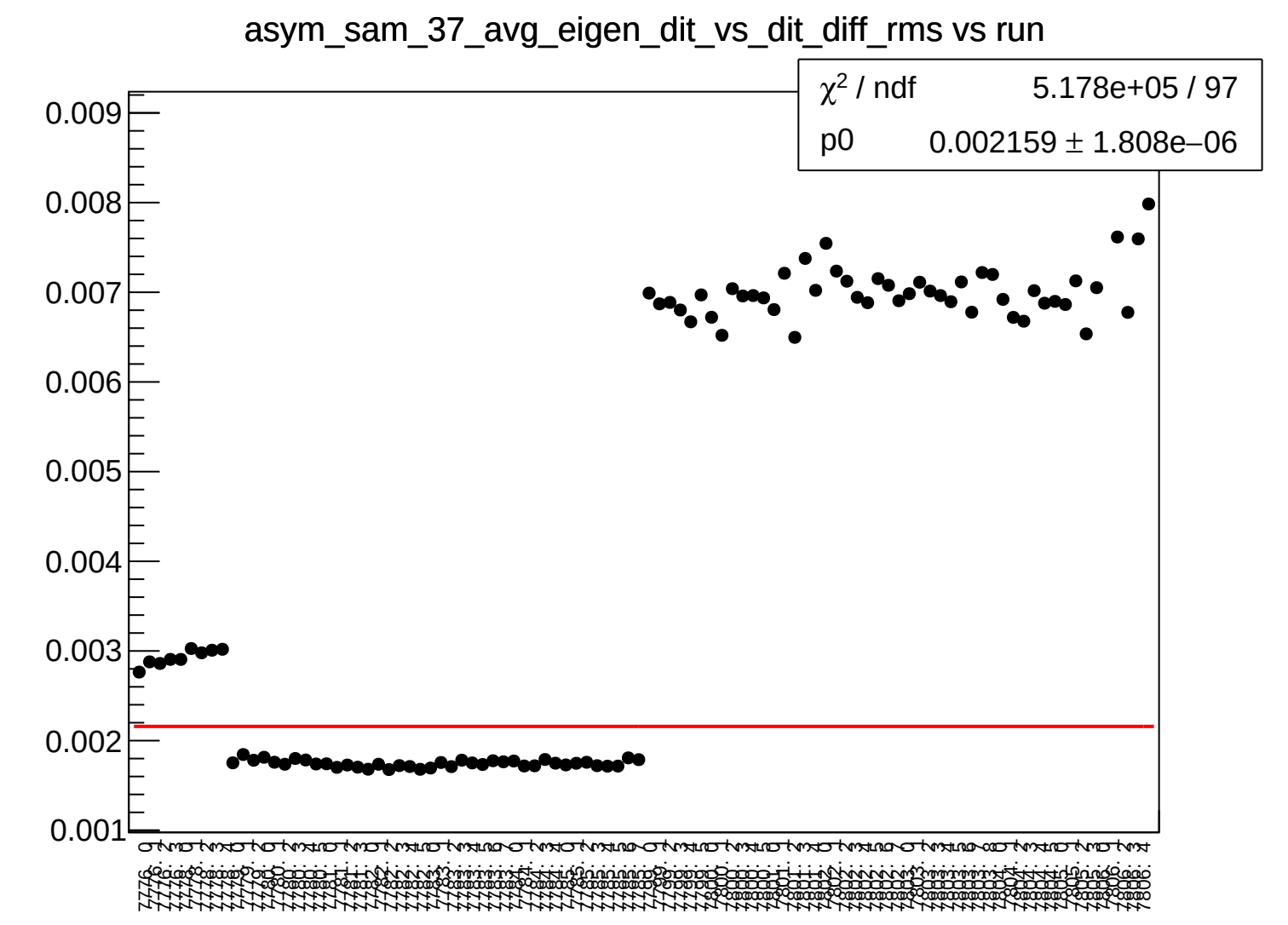


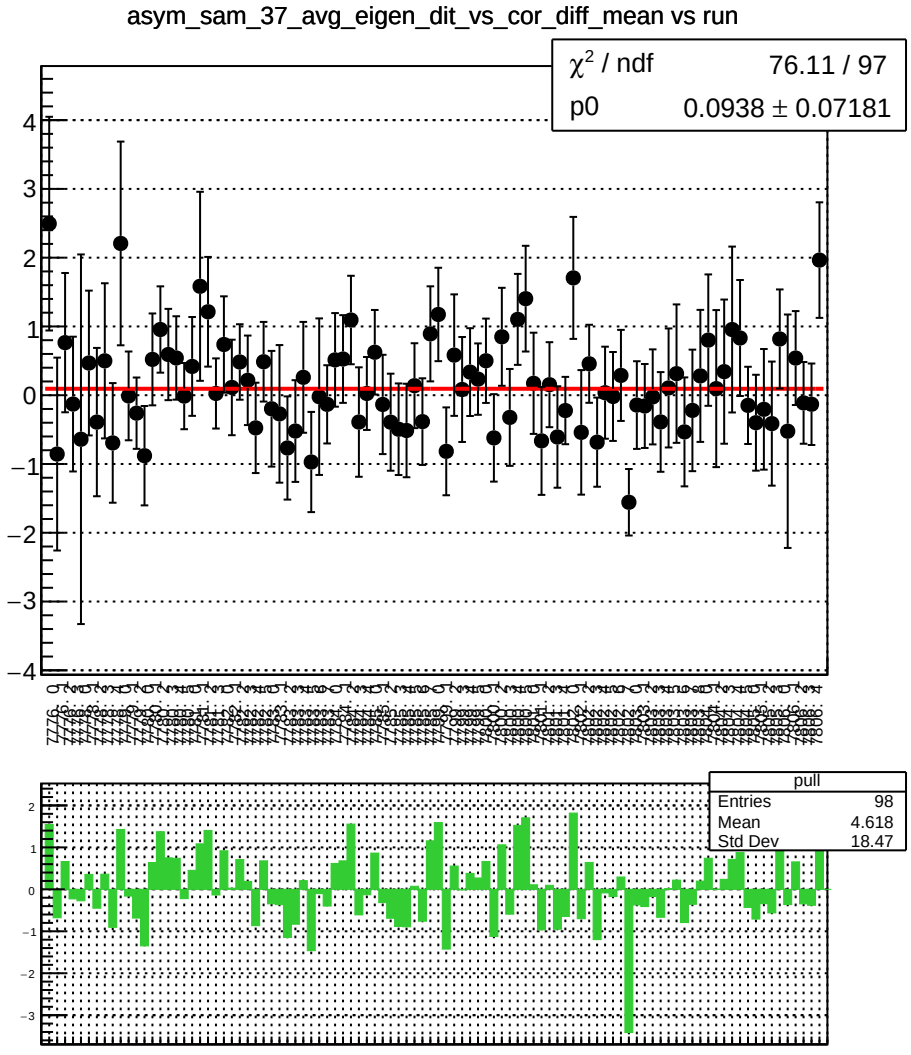


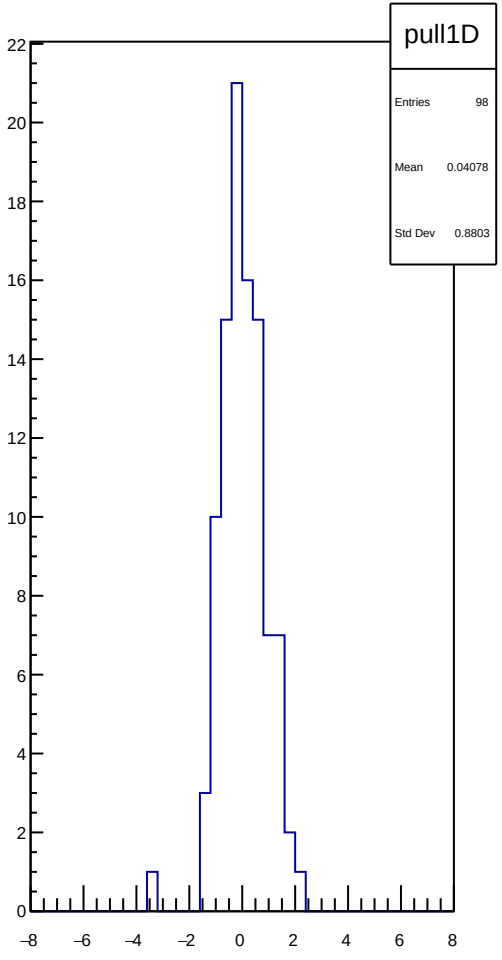

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.08e+04 / 97
p0 69.1 ± 0.05078
250
200
150
100
50

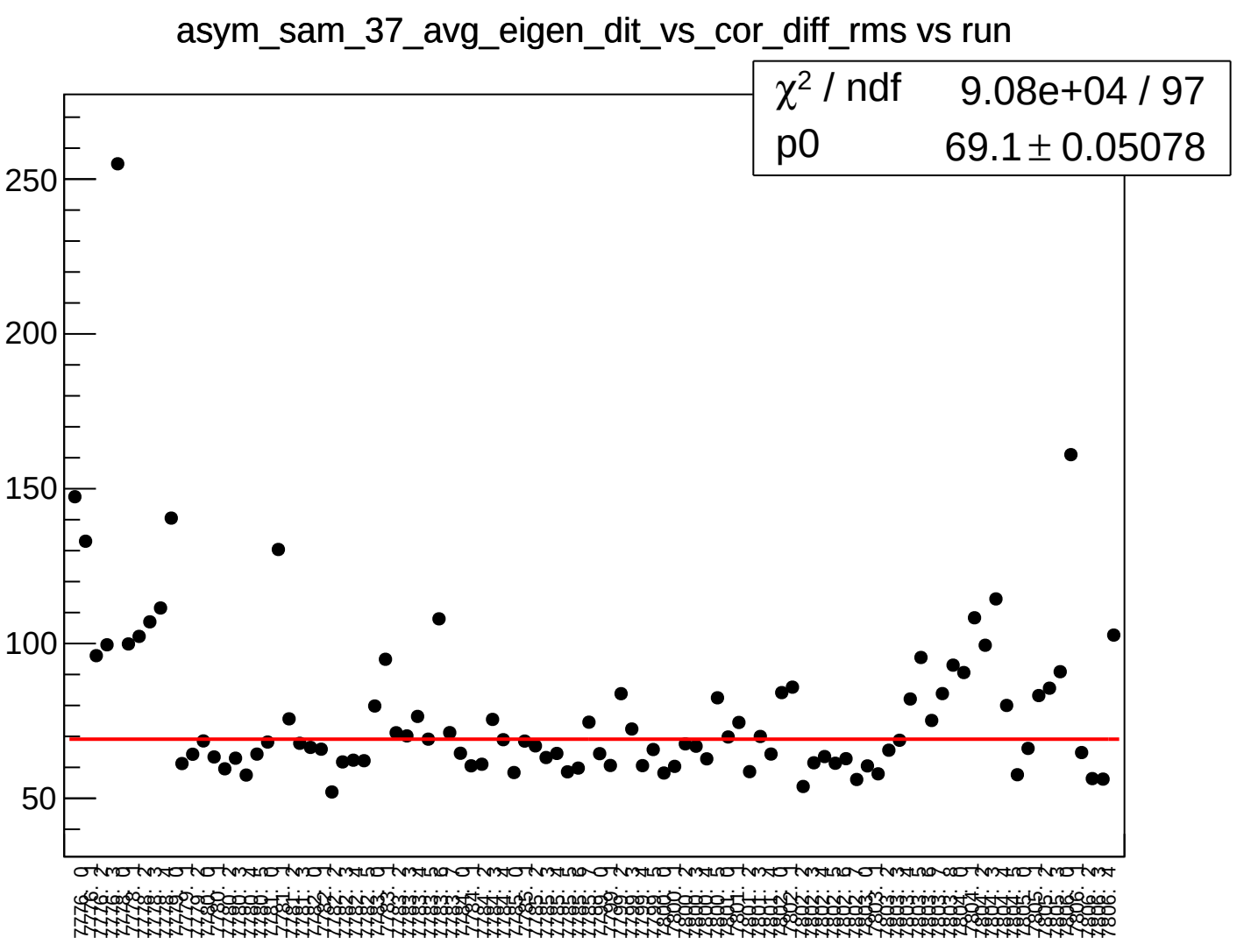

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.83 / 97
p0 −2.395e−07 ± 2.557e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 98
Mean 313.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

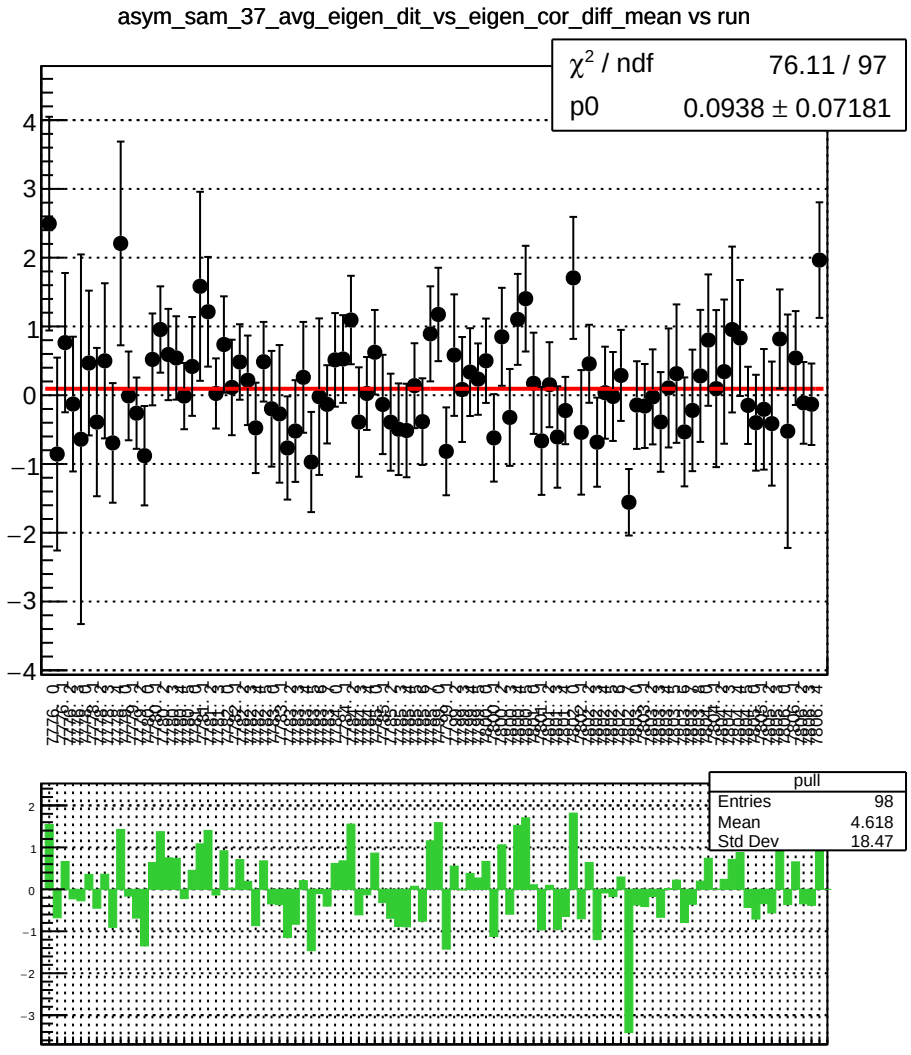

pull1D
Entries 98
Mean 0.007121
Std Dev 0.8441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

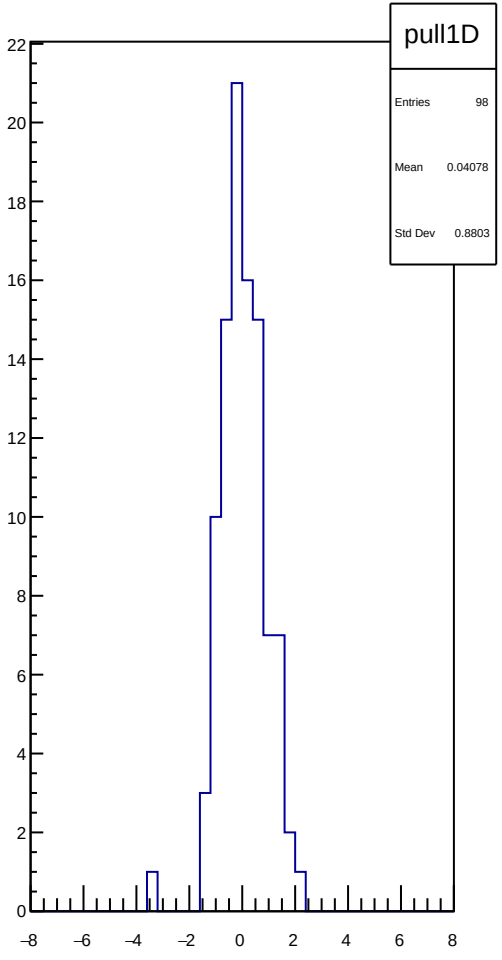

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.178e+05 / 97
p0 0.002159 ± 1.808e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

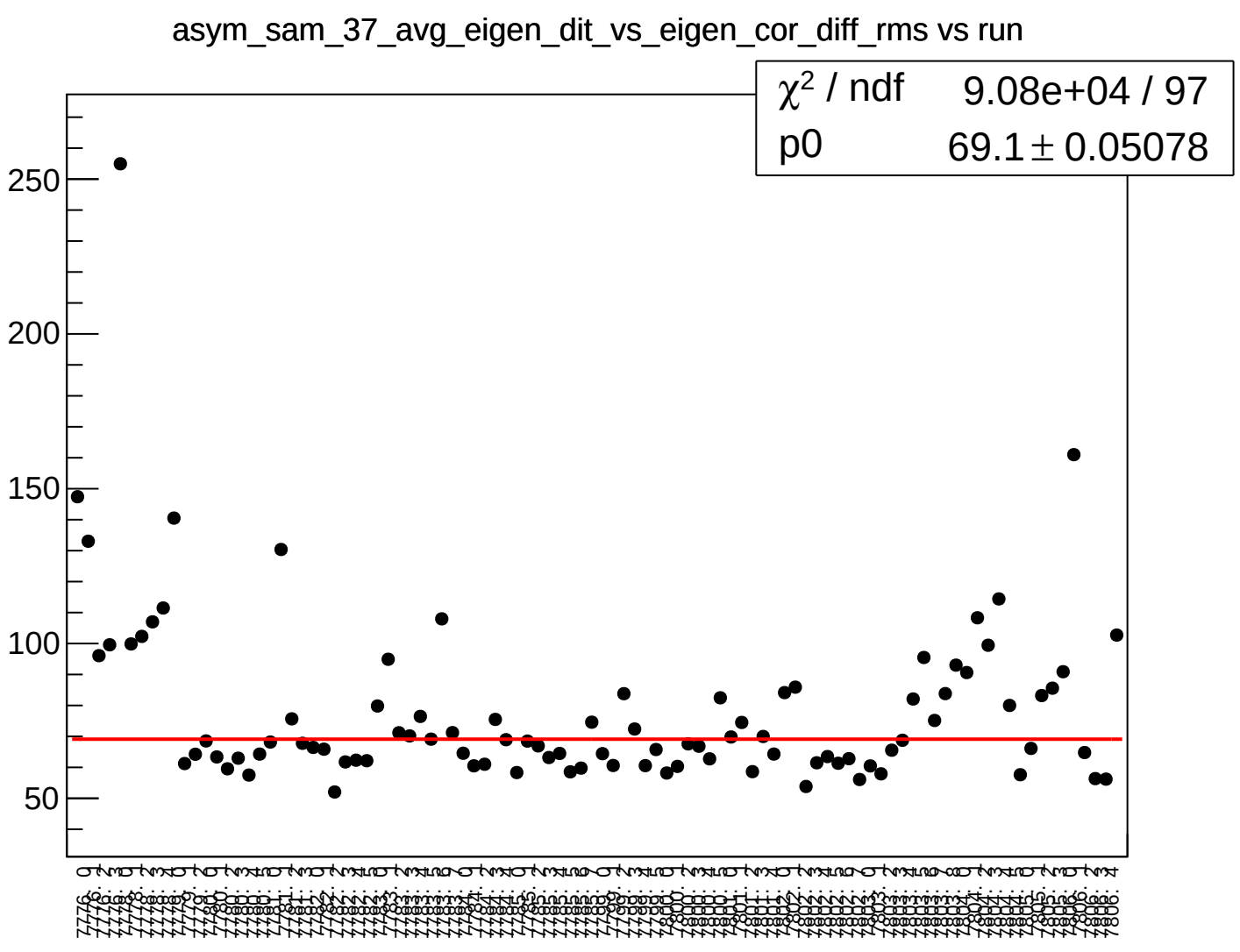

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.11 / 97
p0 0.0938 ± 0.07181
pull
Entries 98
Mean 4.618
Std Dev 18.47

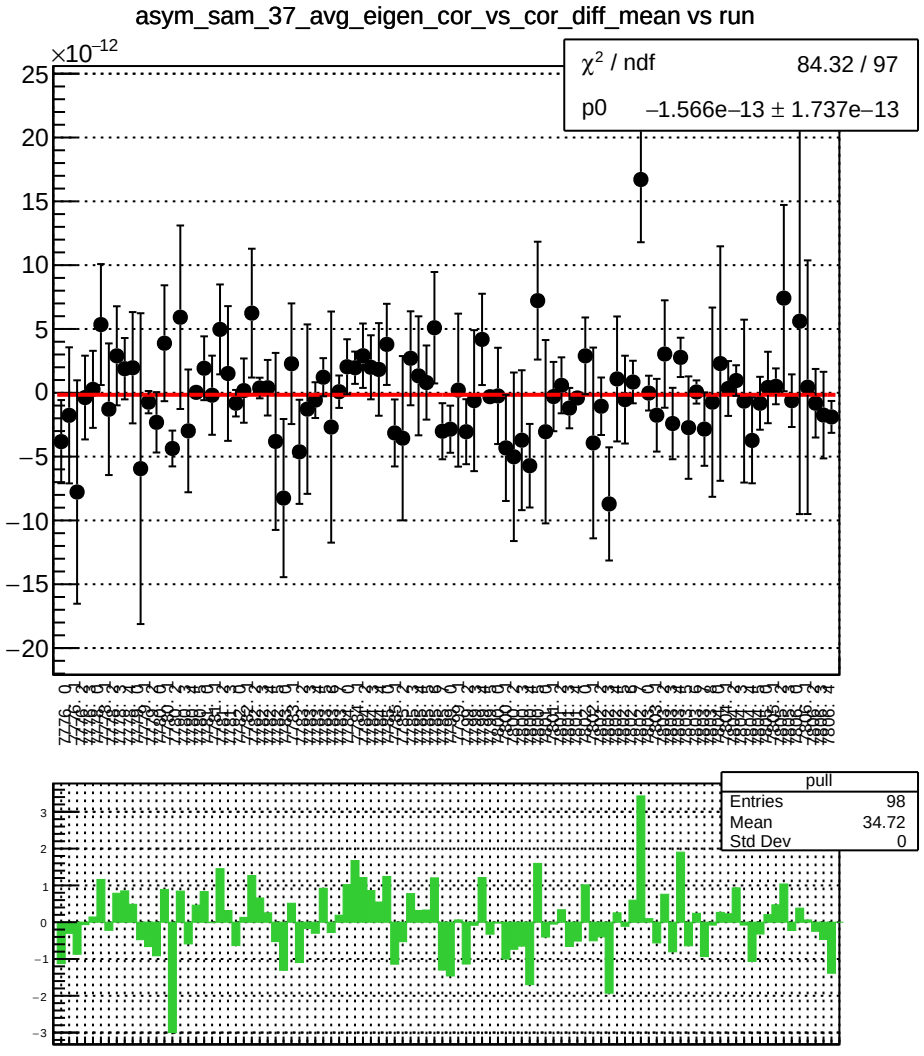

pull1D
Entries 98
Mean 0.04078
Std Dev 0.8803

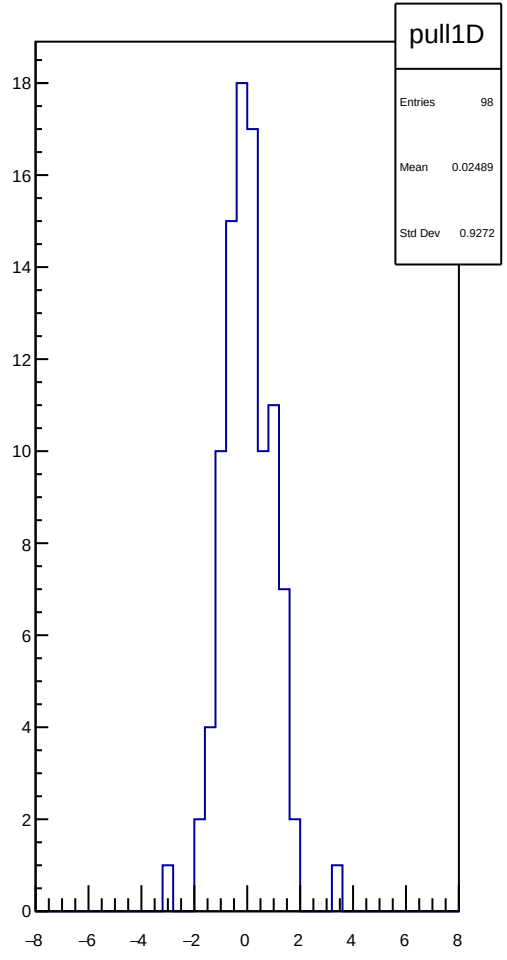

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.08e+04 / 97
p0 69.1 ± 0.05078
250
200
150
100
50

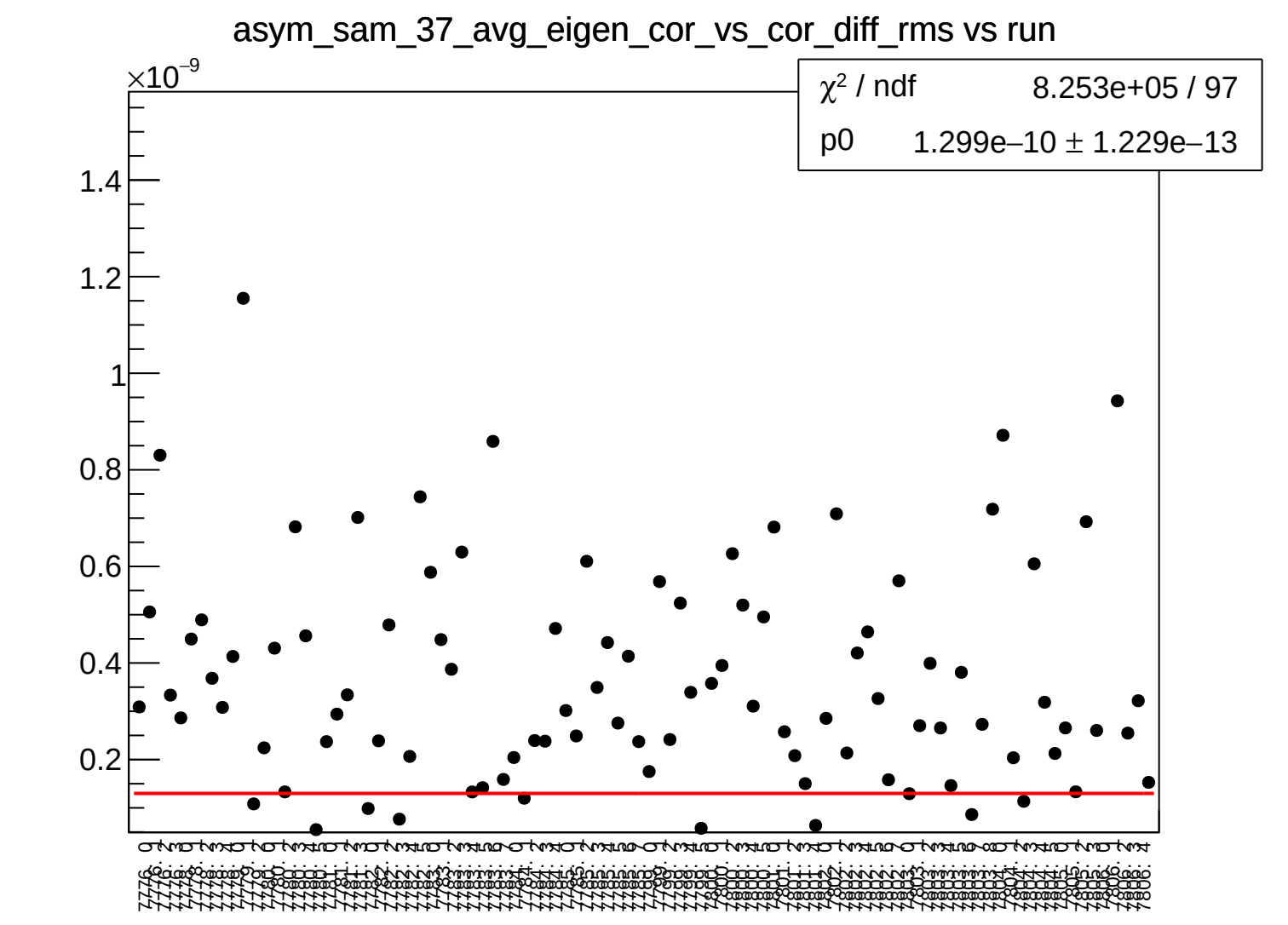

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.11 / 97
p0 0.0938 ± 0.07181
pull
Entries 98
Mean 4.618
Std Dev 18.47

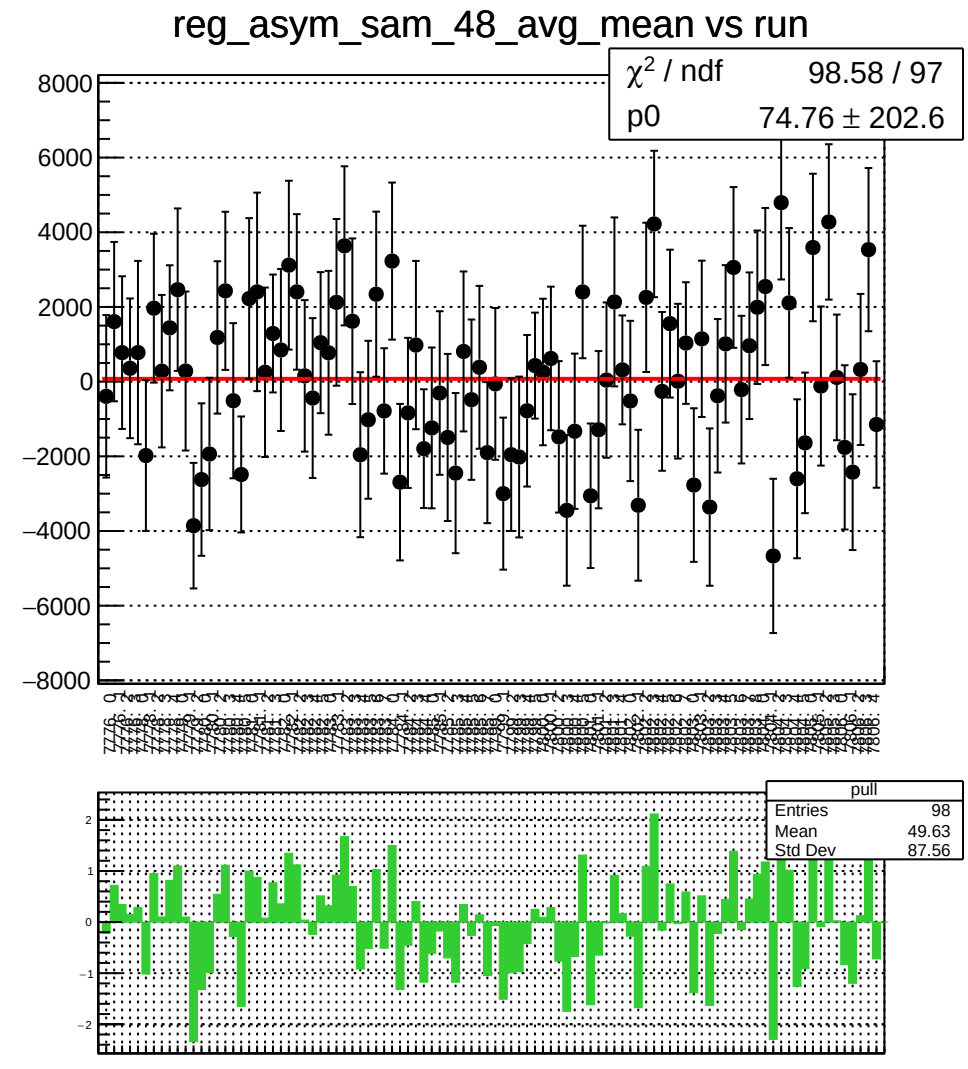

pull1D
Entries 98
Mean 0.04078
Std Dev 0.8803

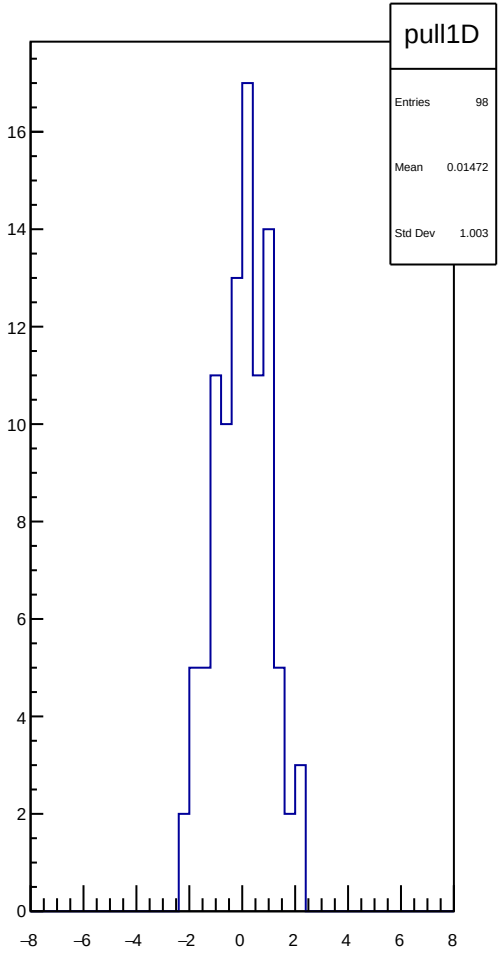

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.08e+04 / 97
p0 69.1 ± 0.05078
250
200
150
100
50

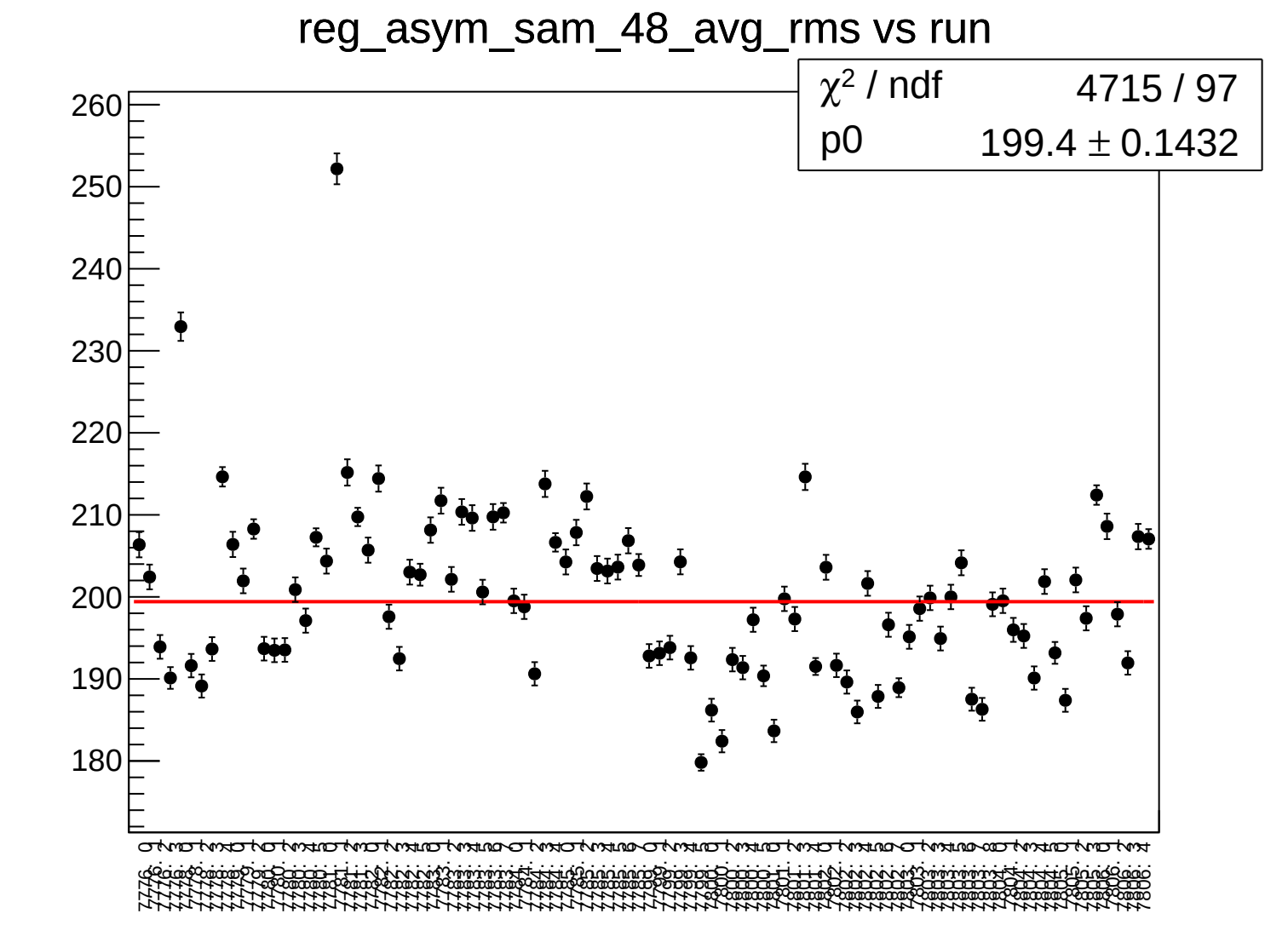

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.32 / 97
p0 −1.566e−13 ± 1.737e−13
pull
Entries 98
Mean 34.72
Std Dev 0

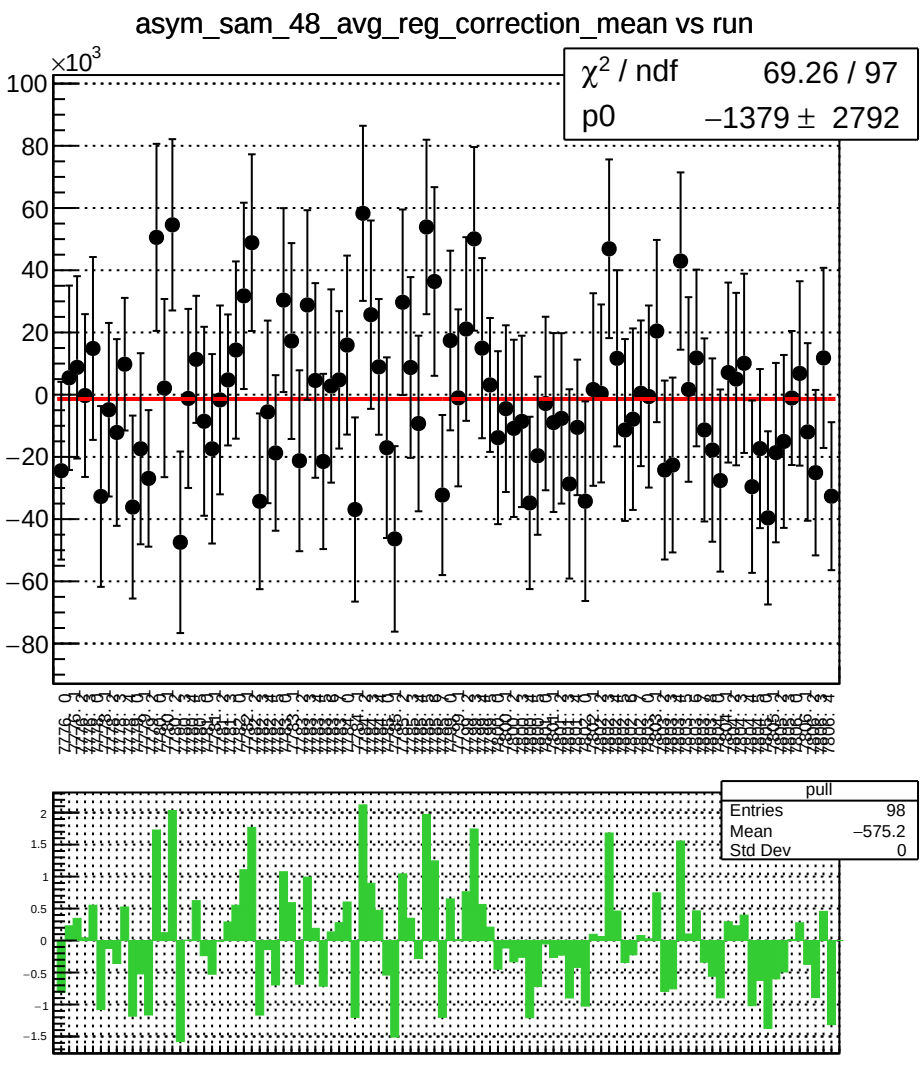

pull1D
Entries 98
Mean 0.02489
Std Dev 0.9272

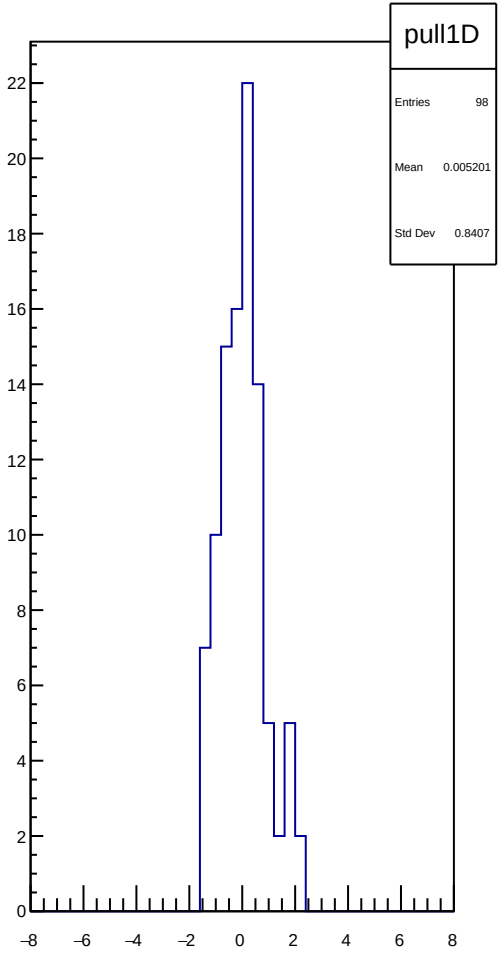

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.253e+05 / 97
p0 1.299e−10 ± 1.229e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

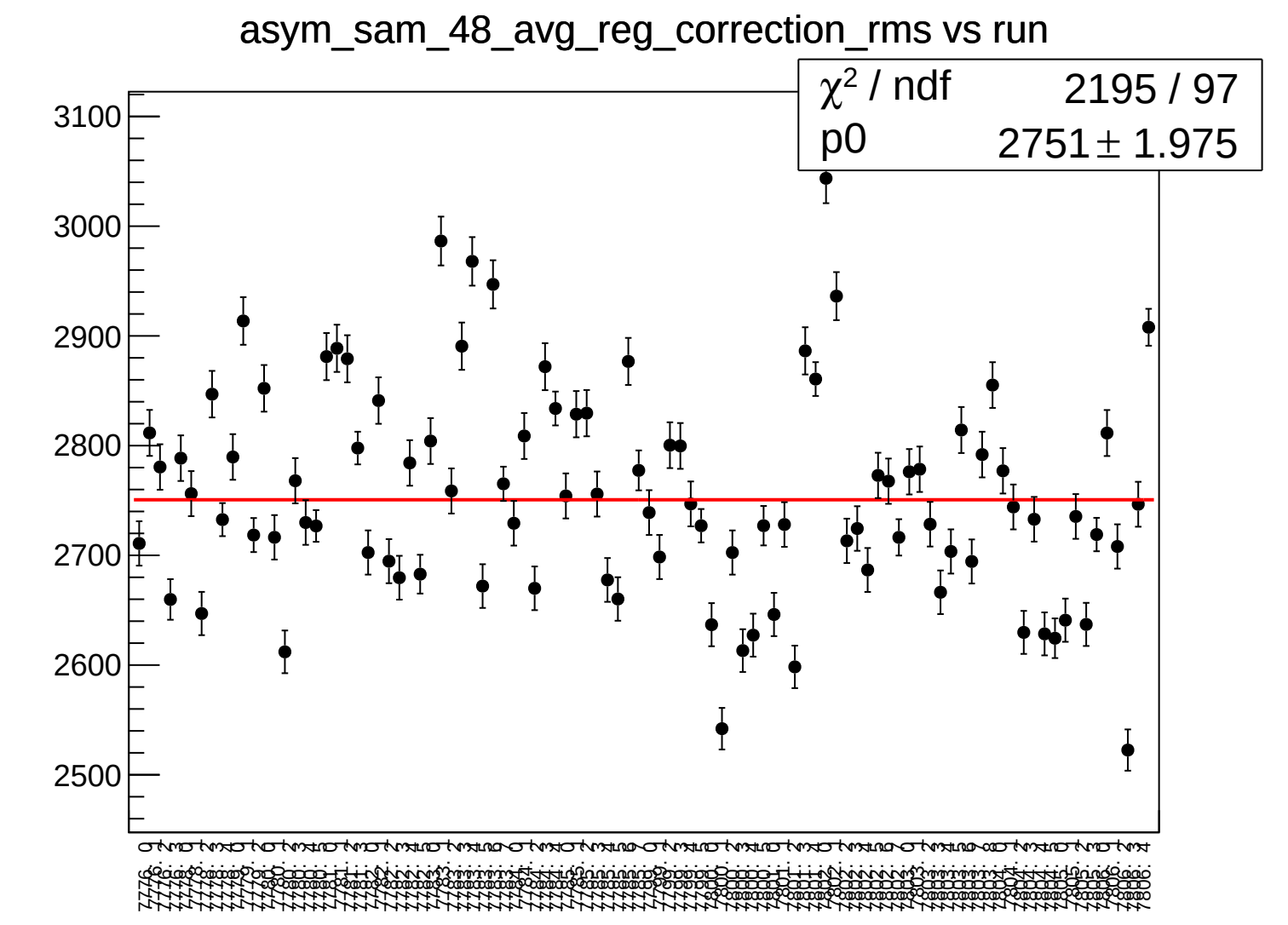

reg_asym_sam_48_avg_mean vs run
χ² / ndf 98.58 / 97
p0 74.76 ± 202.6
pull
Entries 98
Mean 49.63
Std Dev 87.56

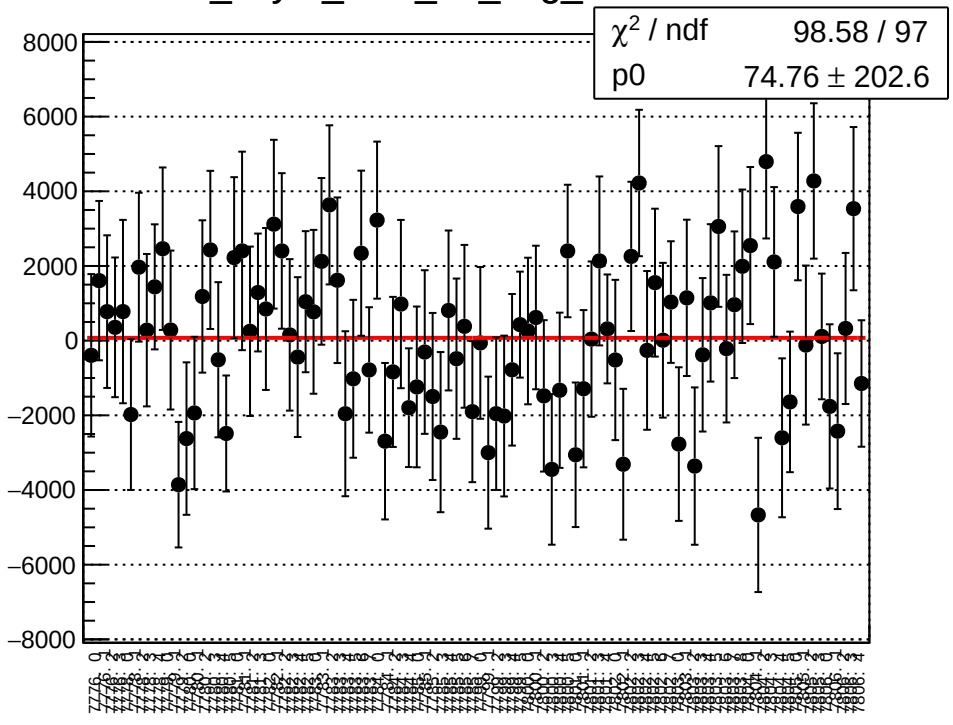

pull1D
Entries 98
Mean 0.01472
Std Dev 1.003

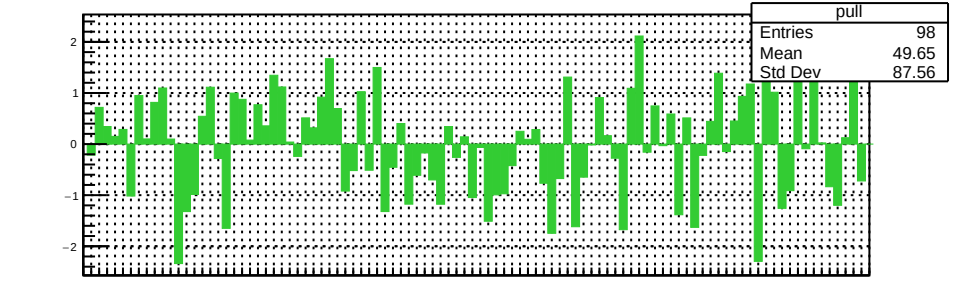

reg_asym_sam_48_avg_rms vs run
χ² / ndf 4715 / 97
p0 199.4 ± 0.1432
260
250
240
230
220
210
200
190
180

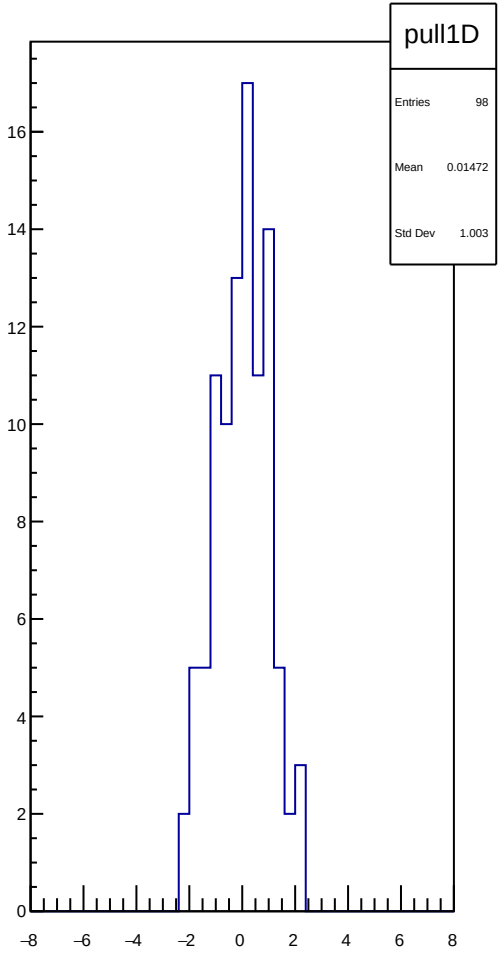

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 69.26 / 97
p0 −1379 ± 2792
×10³
pull
Entries 98
Mean −575.2
Std Dev 0

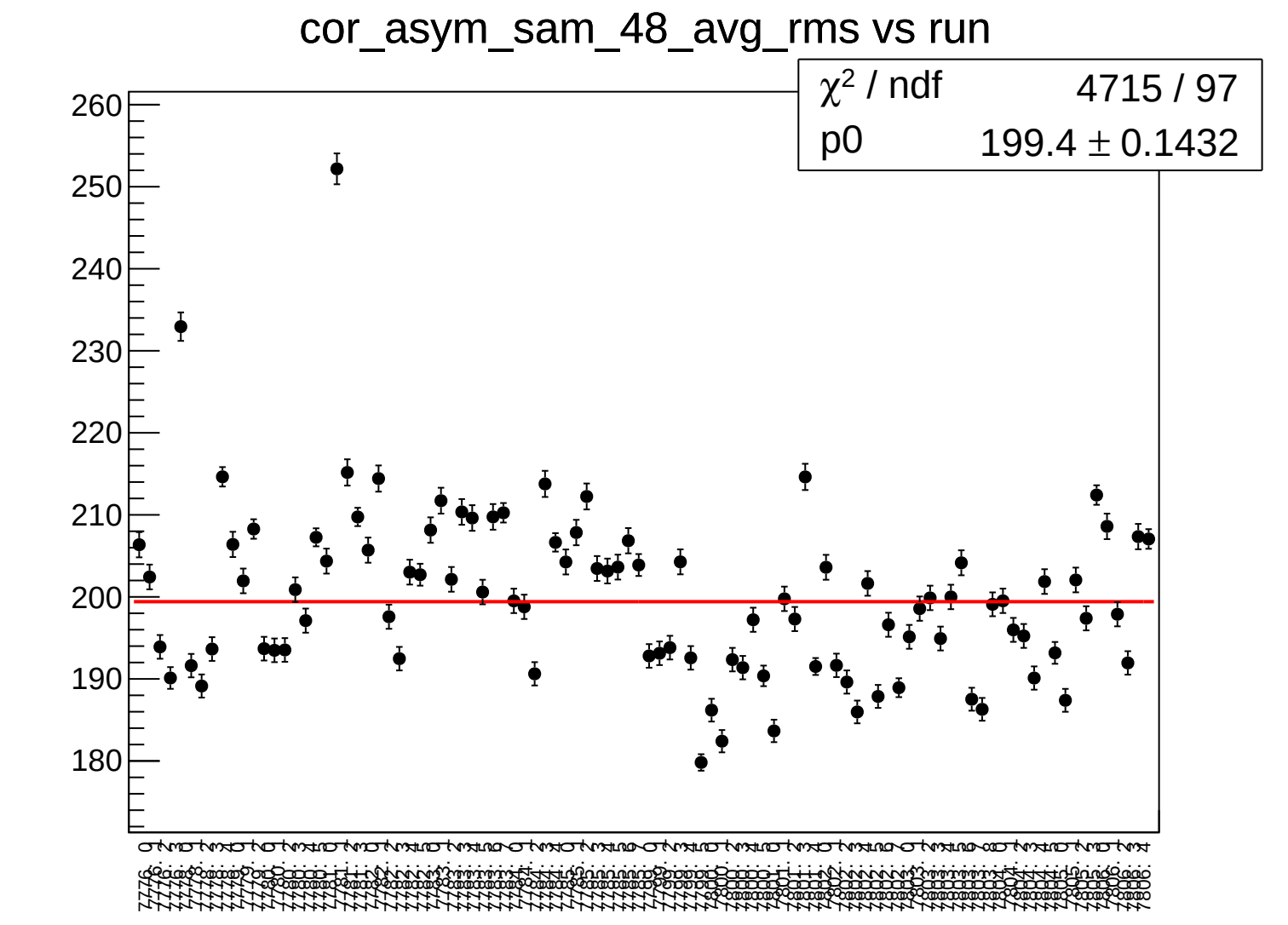

pull1D
Entries 98
Mean 0.005201
Std Dev 0.8407

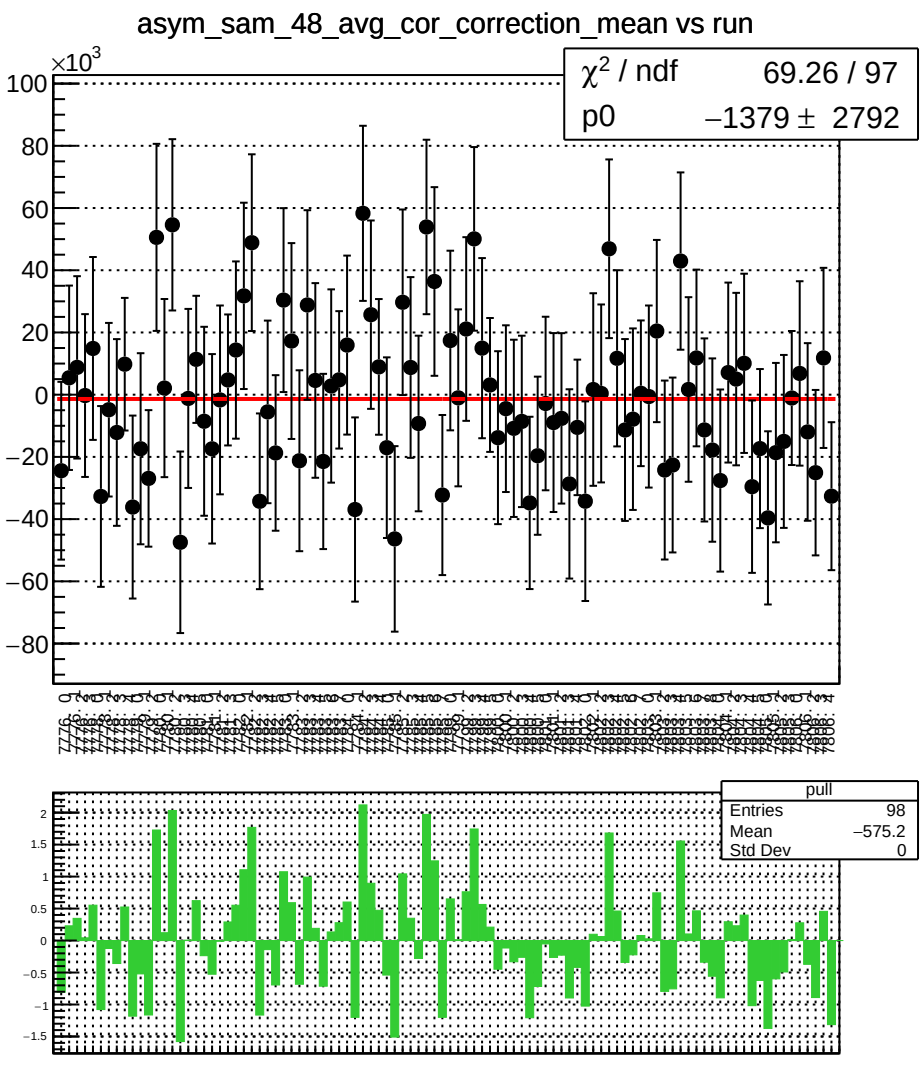

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2195 / 97
p0 2751 ± 1.975
3100
3000
2900
2800
2700
2600
2500

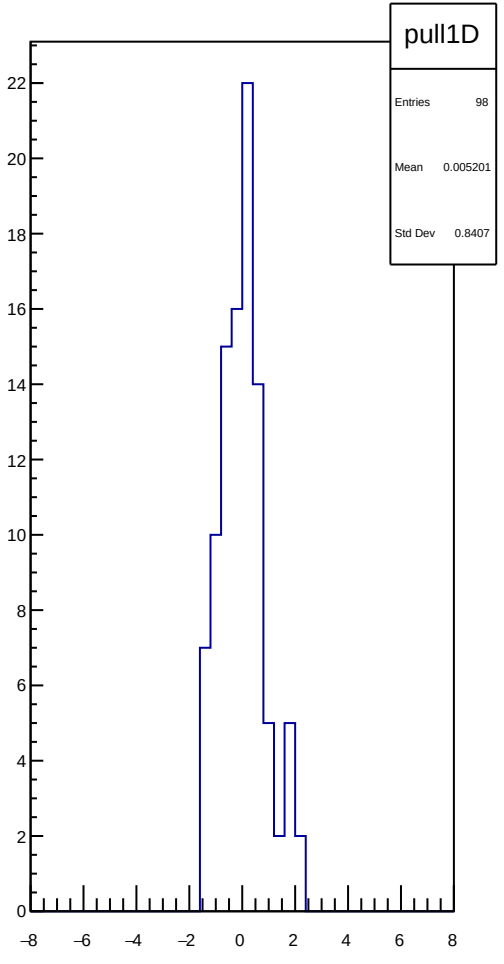

cor_asym_sam_48_avg_mean vs run
χ² / ndf 98.58 / 97
p0 74.76 ± 202.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000

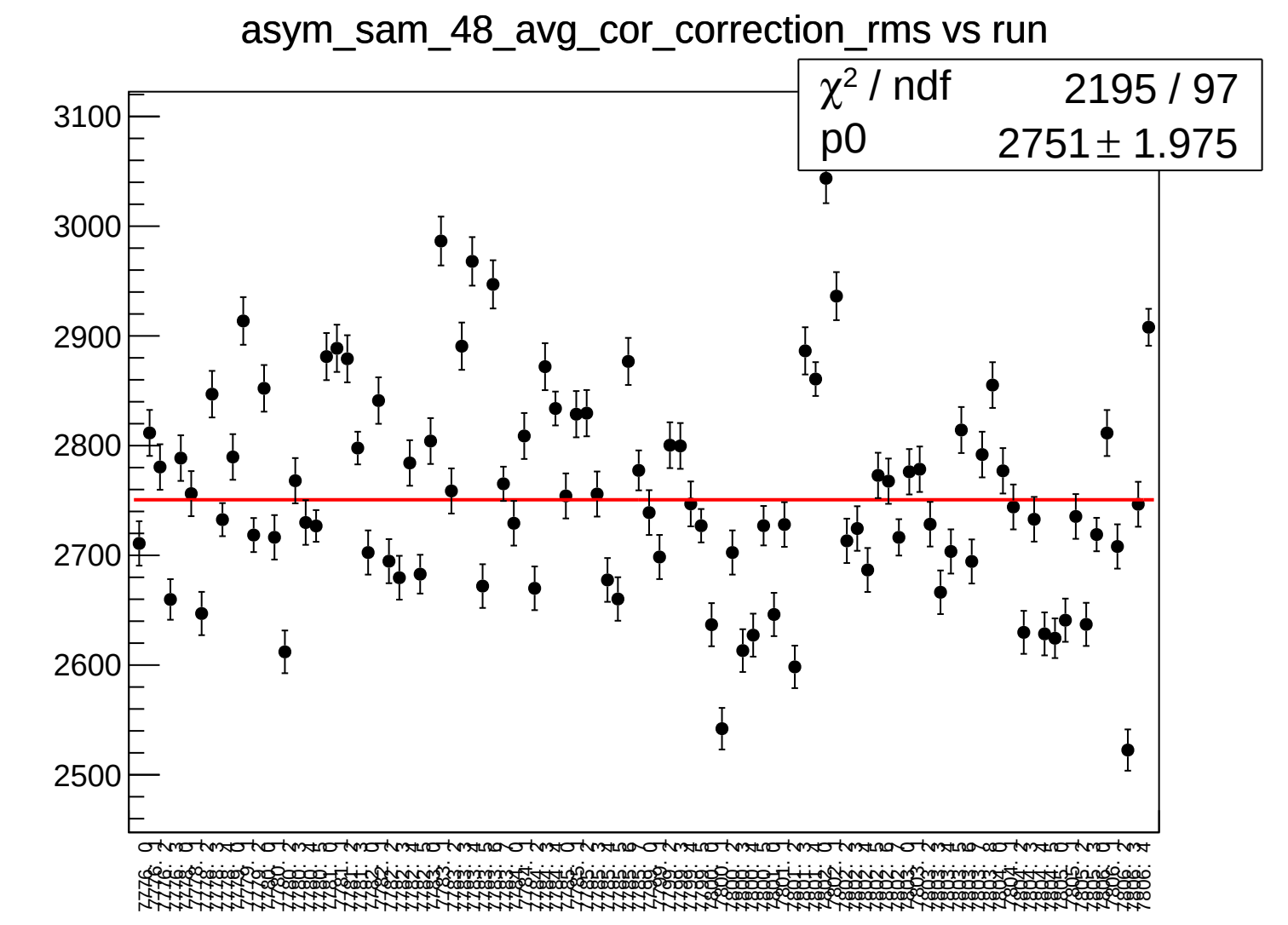

pull
Entries 98
Mean 49.65
Std Dev 87.56
2
1
0
−1
−2

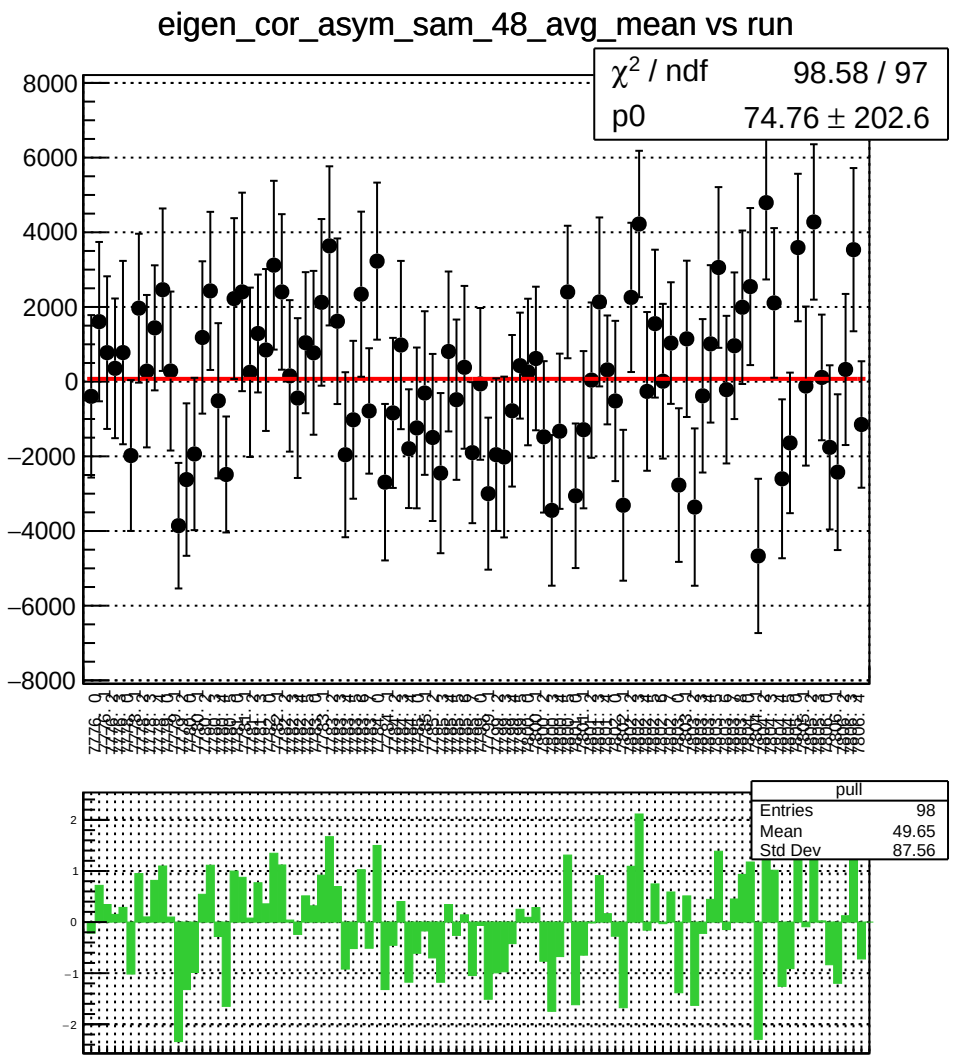

pull1D
Entries 98
Mean 0.01472
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

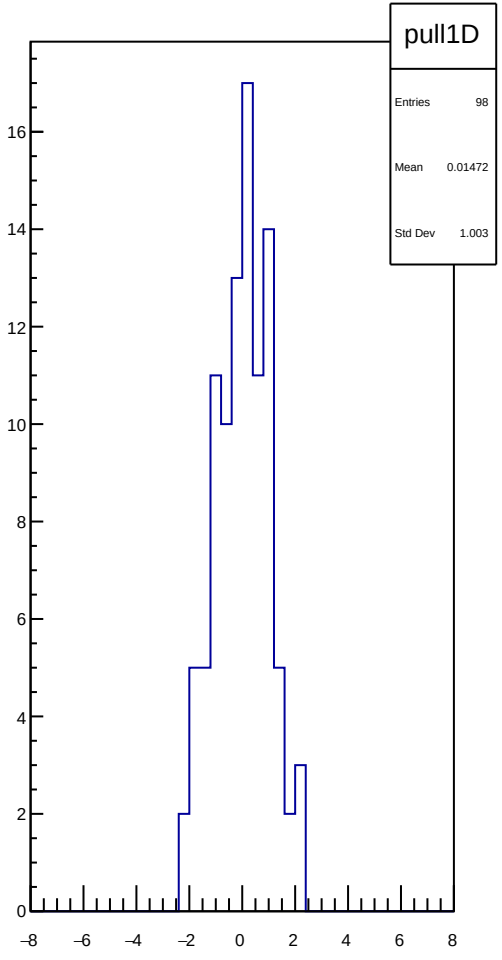

cor_asym_sam_48_avg_rms vs run
χ² / ndf 4715 / 97
p0 199.4 ± 0.1432
260
250
240
230
220
210
200
190
180

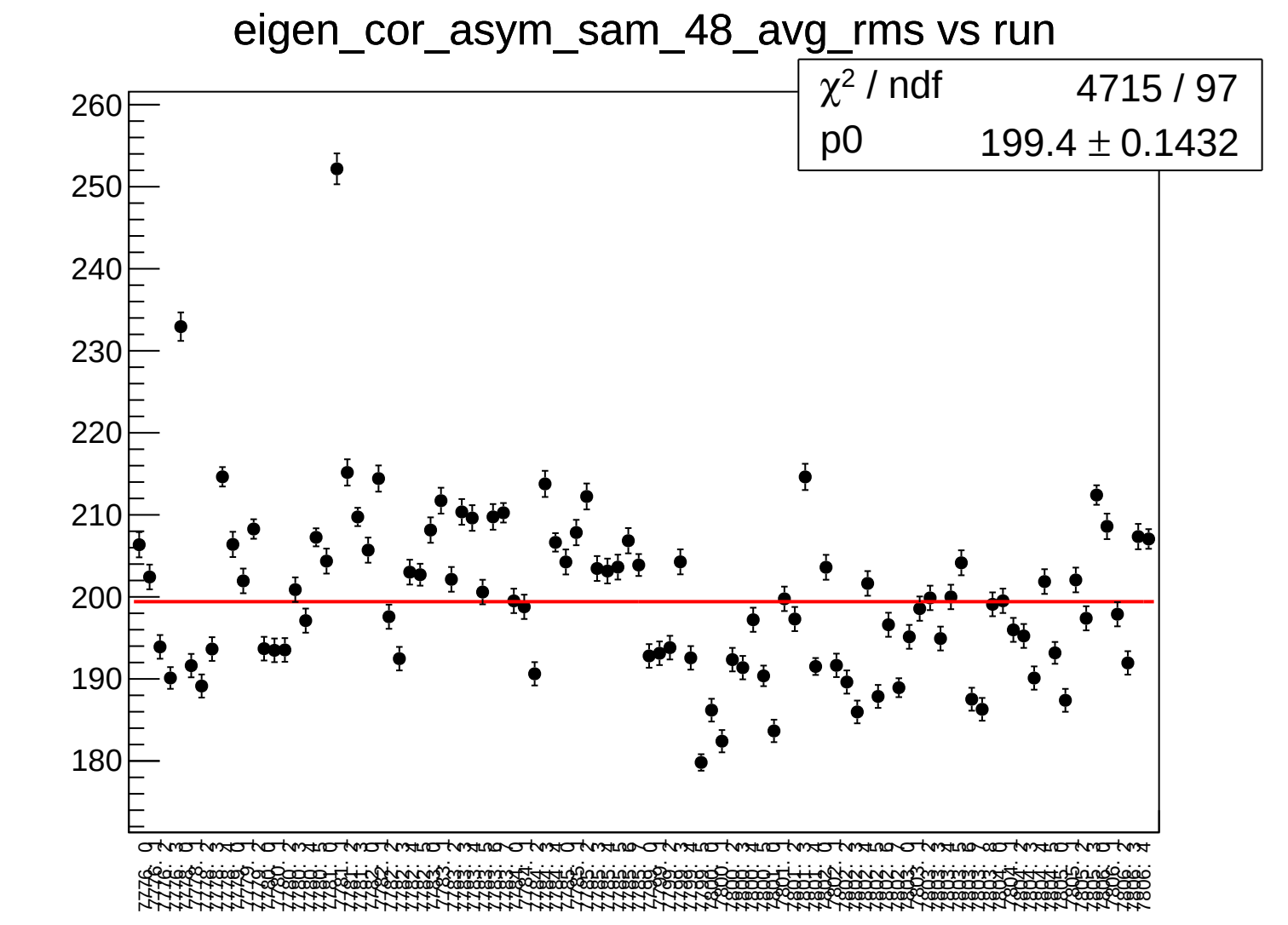

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 69.26 / 97
p0 −1379 ± 2792
×10³
pull
Entries 98
Mean −575.2
Std Dev 0

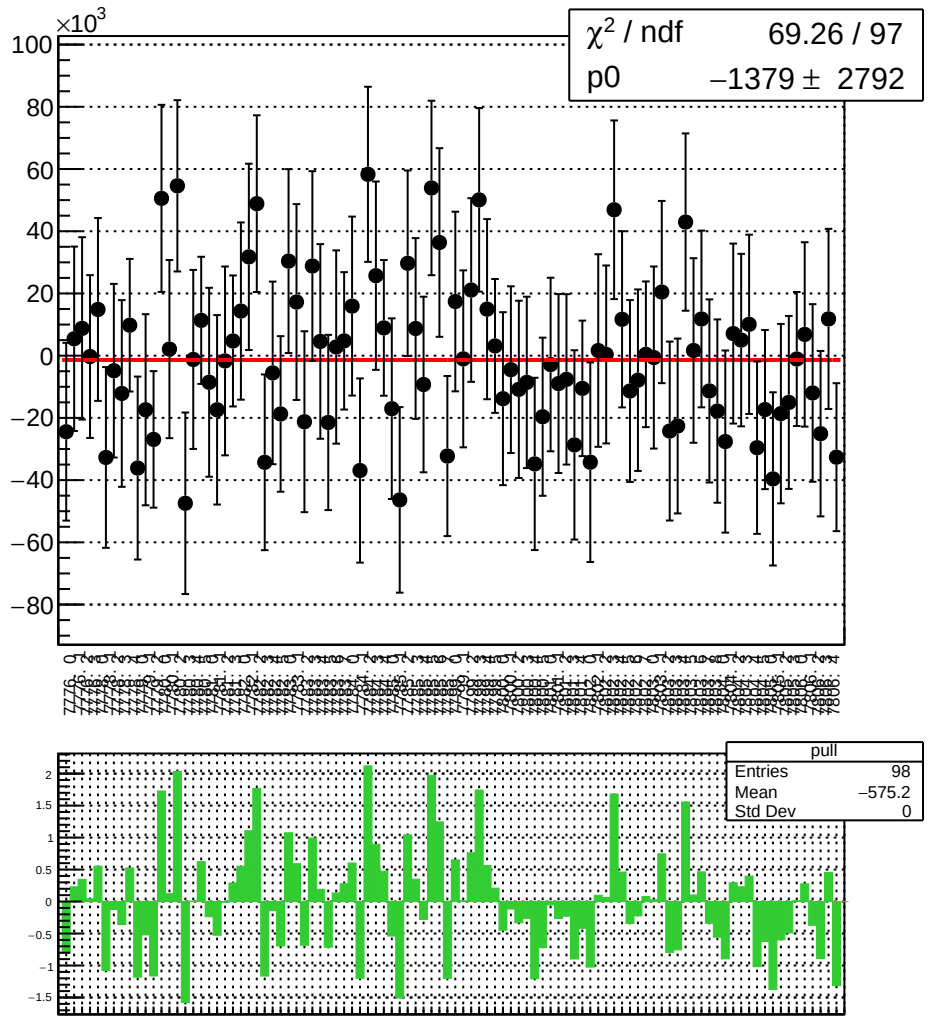

pull1D
Entries 98
Mean 0.005201
Std Dev 0.8407

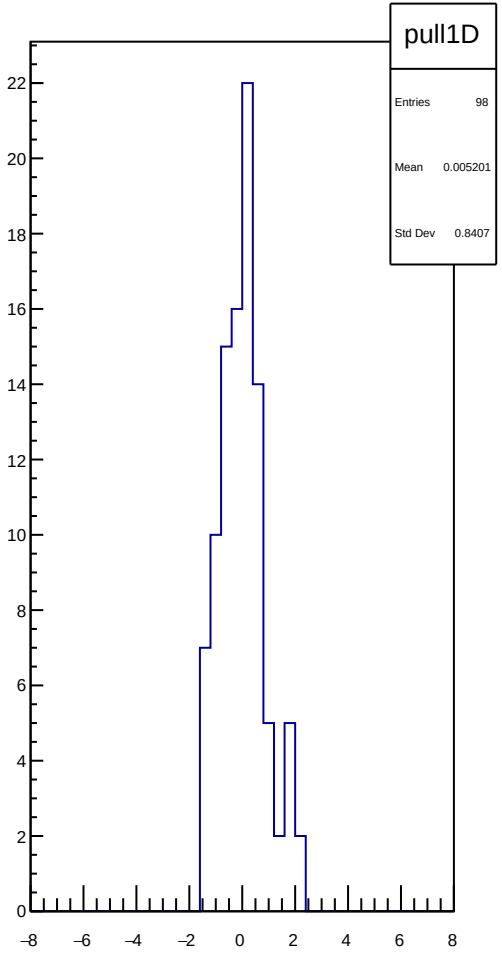

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 2195 / 97
p0 2751 ± 1.975
3100
3000
2900
2800
2700
2600
2500

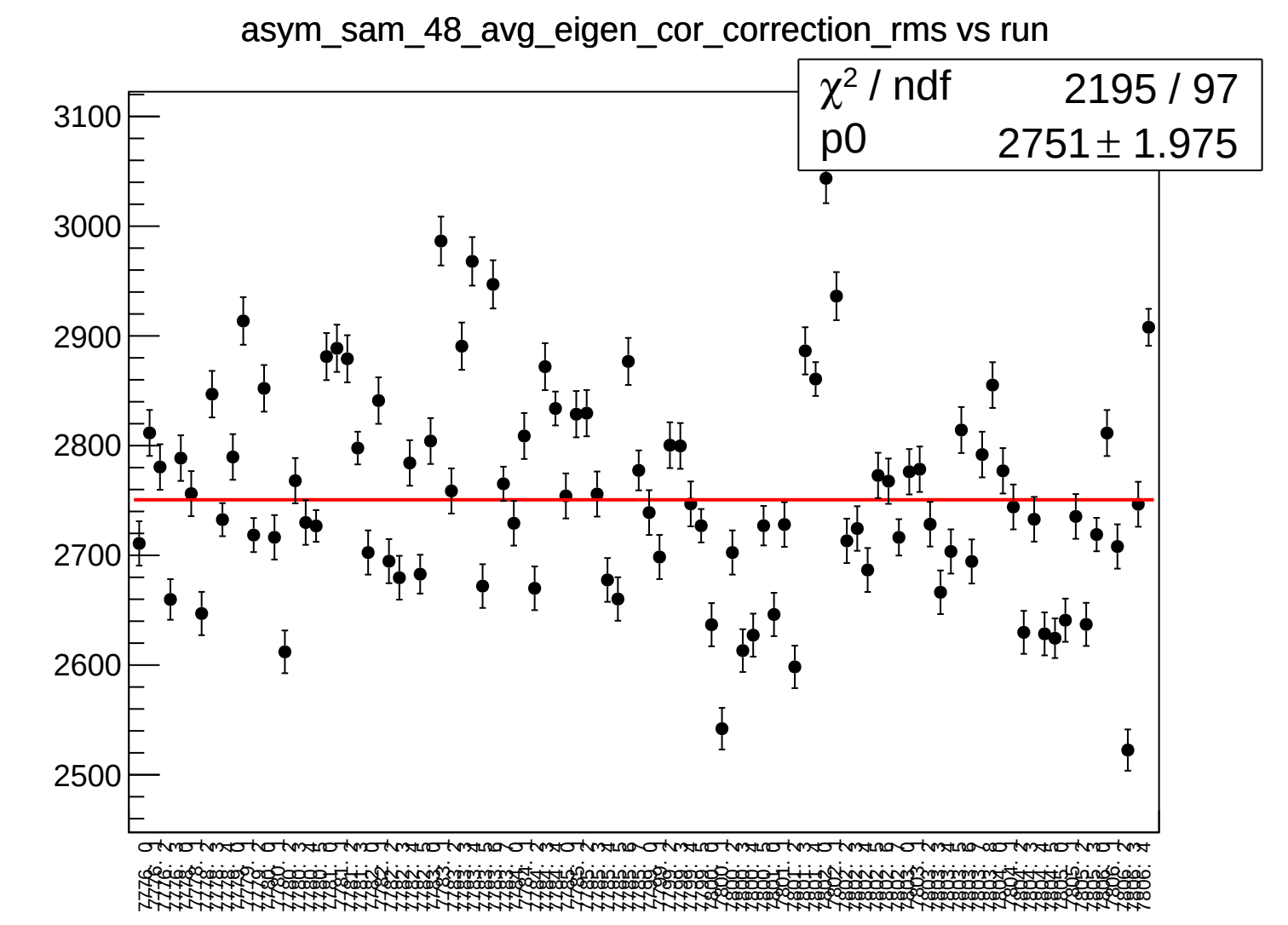

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 98.58 / 97
p0 74.76 ± 202.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 98
Mean 49.65
Std Dev 87.56
2
1
0
−1
−2

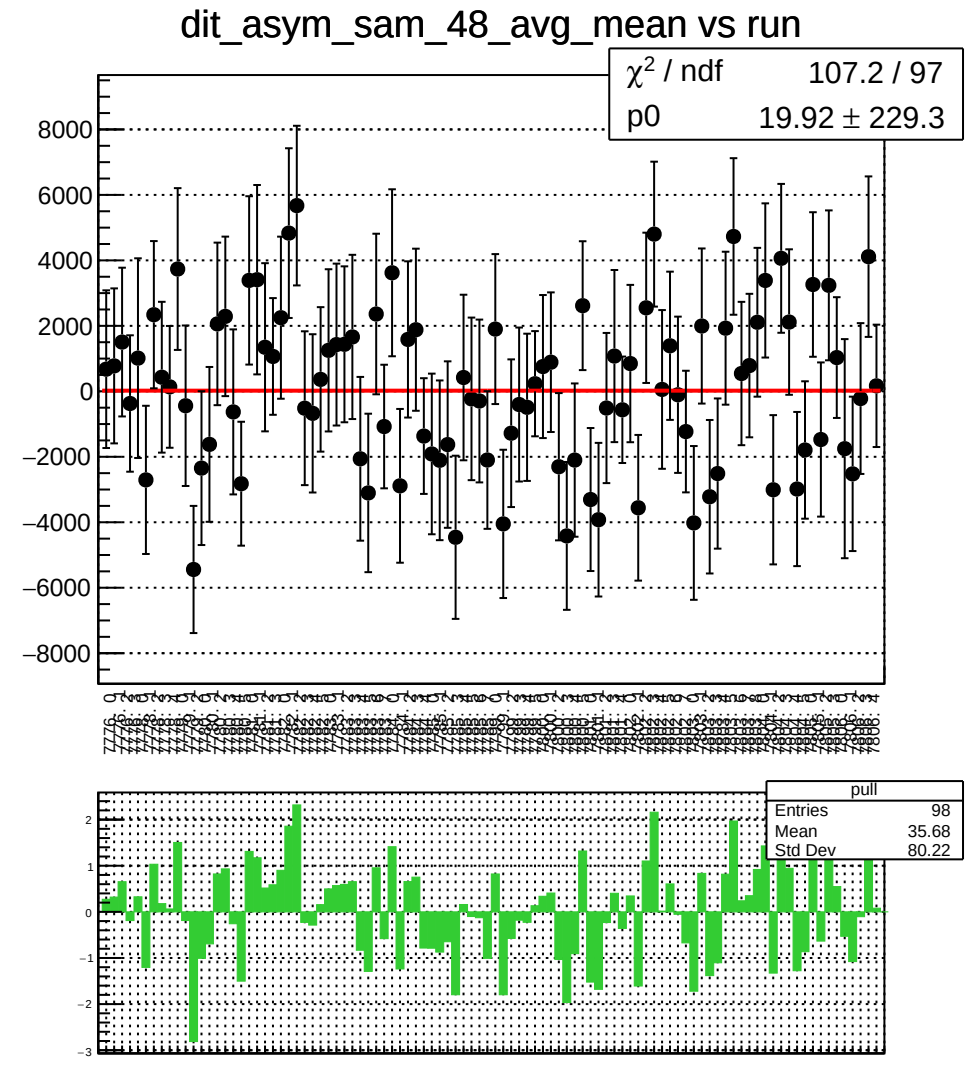

pull1D
Entries 98
Mean 0.01472
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

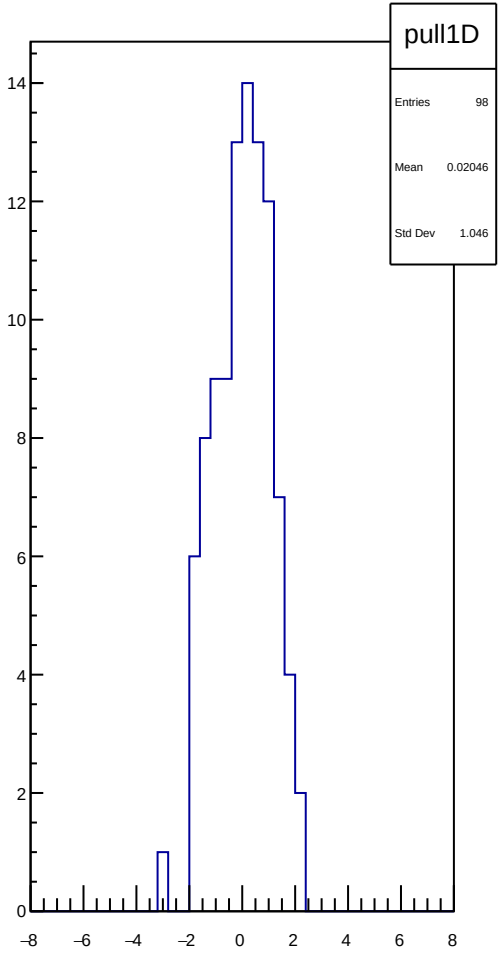

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 4715 / 97
p0 199.4 ± 0.1432
260
250
240
230
220
210
200
190
180

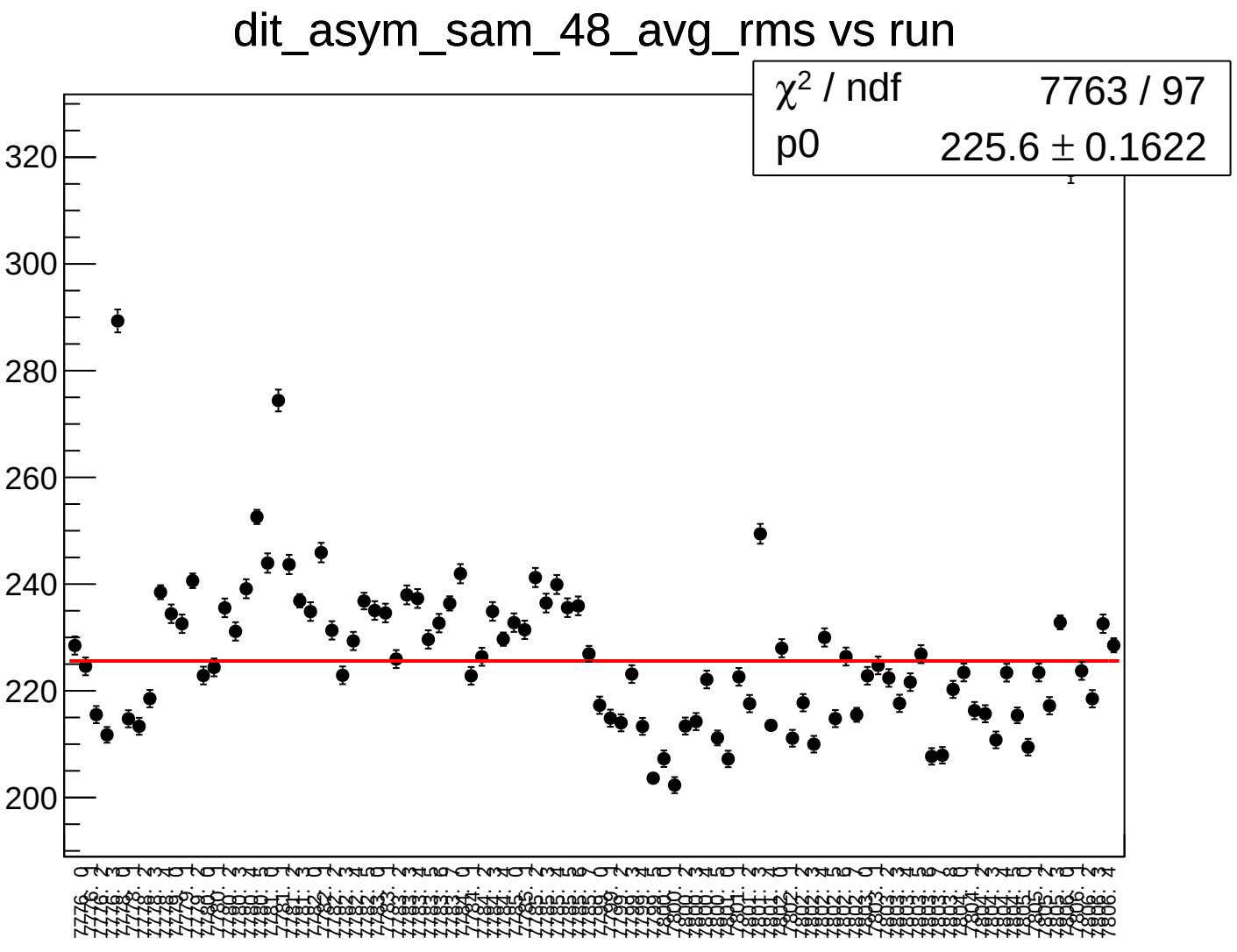

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.26 / 97
p0 −1379 ± 2792
pull
Entries 98
Mean −575.2
Std Dev 0

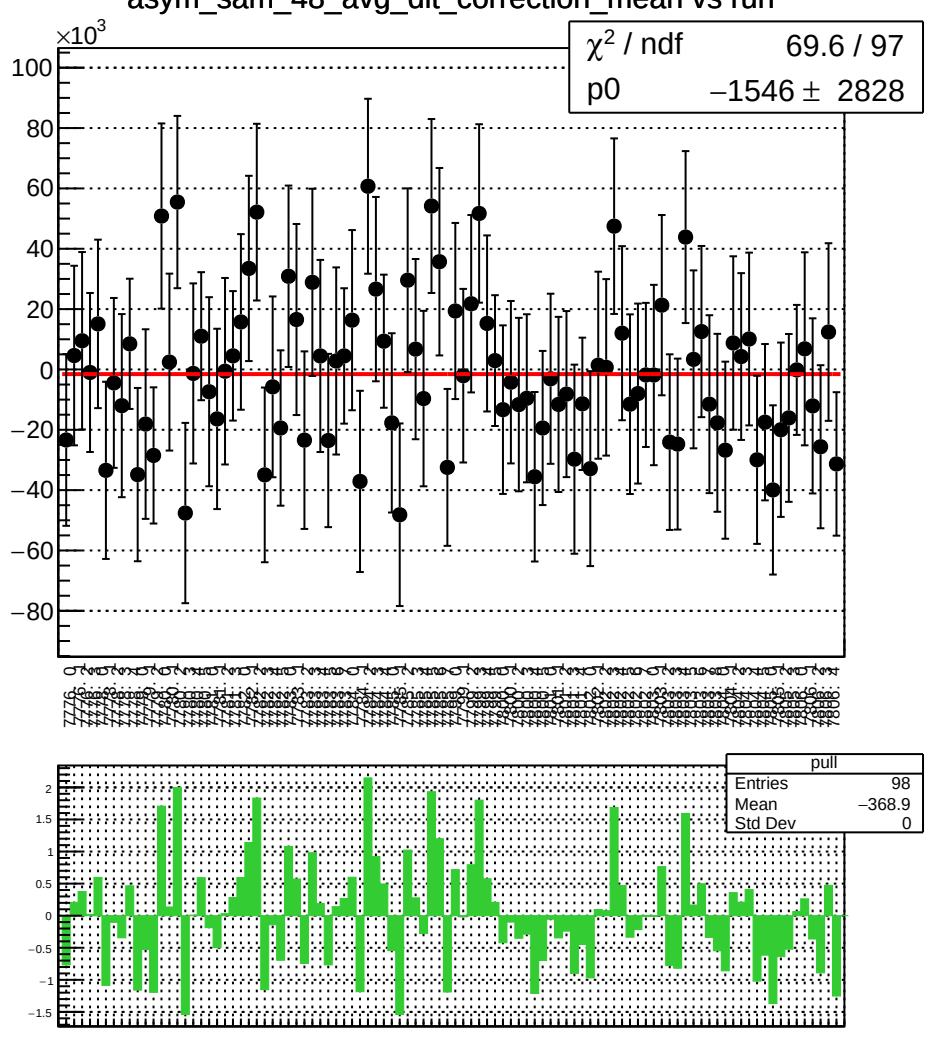

pull1D
Entries 98
Mean 0.005201
Std Dev 0.8407

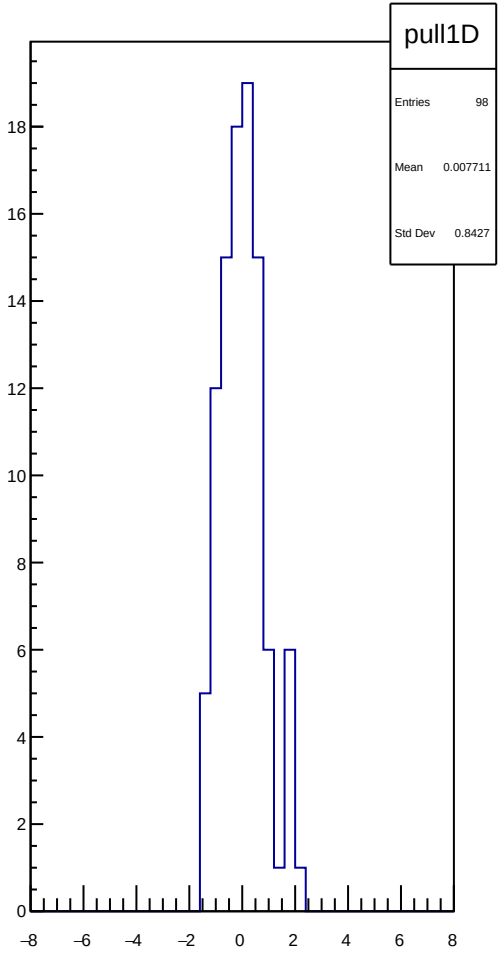

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2195 / 97
p0 2751 ± 1.975
3100
3000
2900
2800
2700
2600
2500

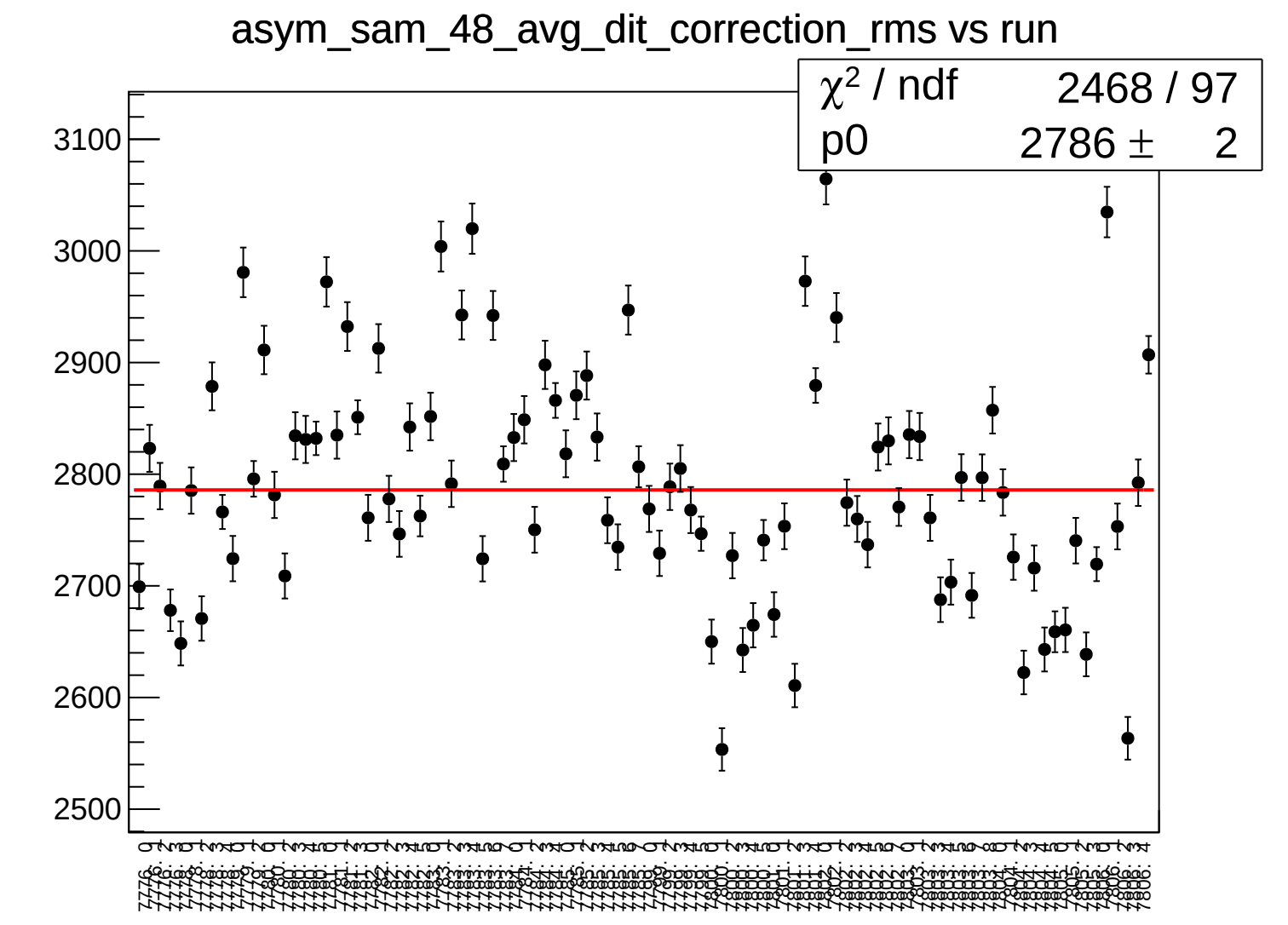

dit_asym_sam_48_avg_mean vs run
χ² / ndf 107.2 / 97
p0 19.92 ± 229.3
pull
Entries 98
Mean 35.68
Std Dev 80.22

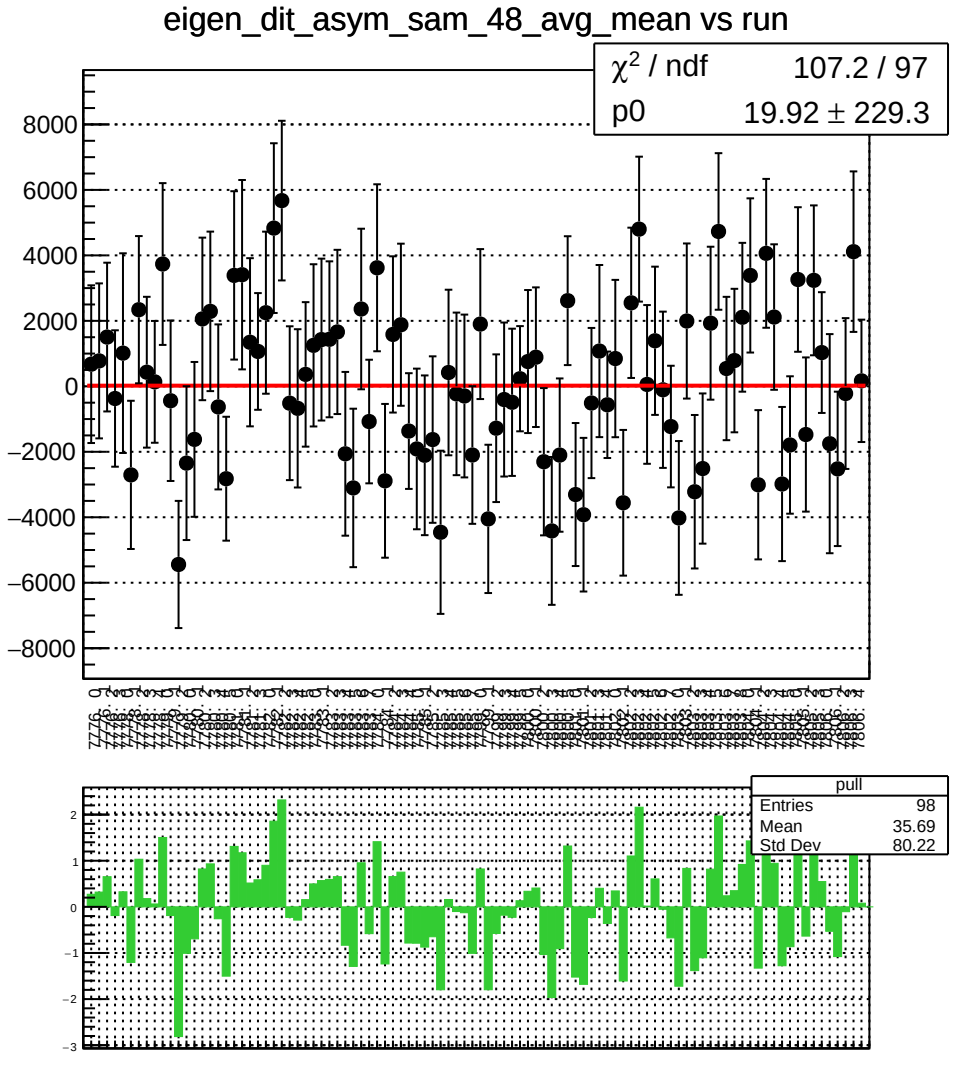

pull1D
Entries 98
Mean 0.02046
Std Dev 1.046

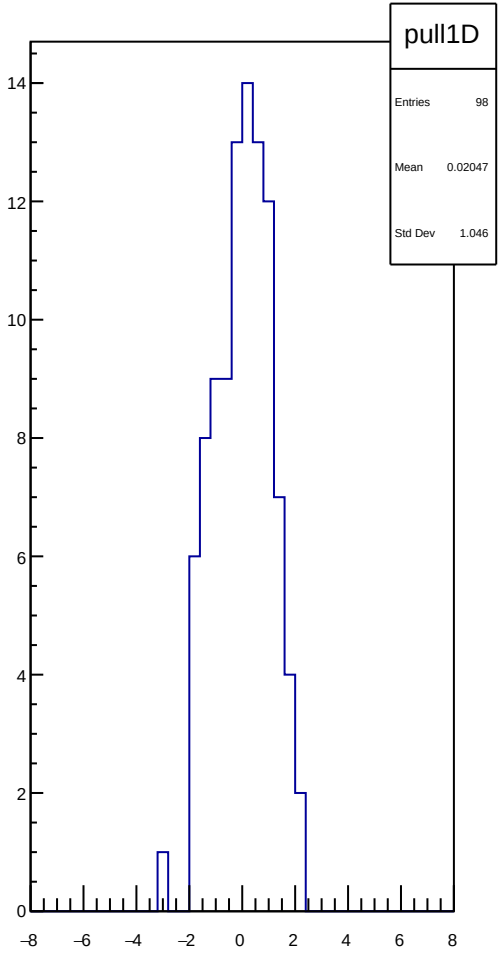

dit_asym_sam_48_avg_rms vs run
χ² / ndf 7763 / 97
p0 225.6 ± 0.1622
320
300
280
260
240
220
200

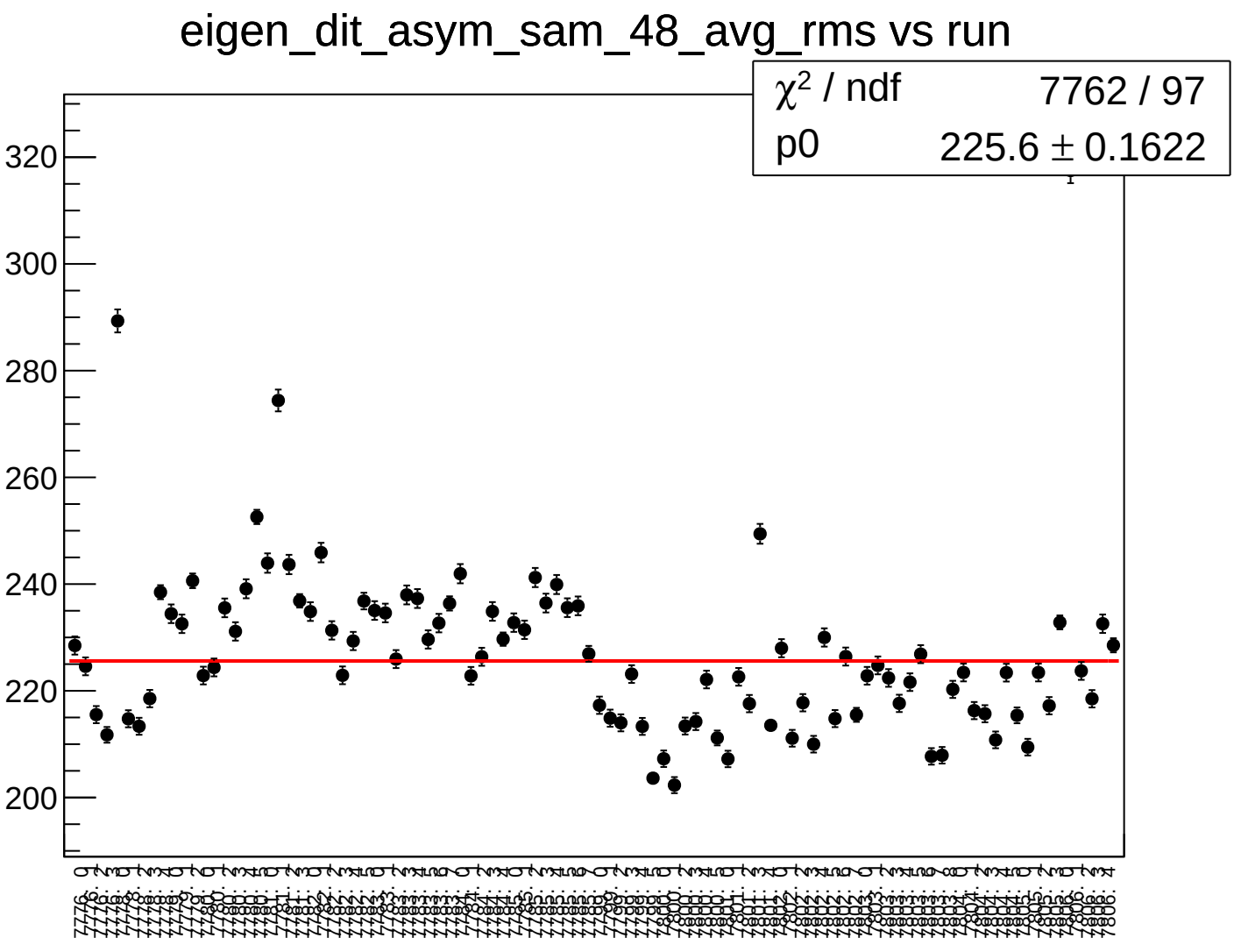

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 69.6 / 97
p0 −1546 ± 2828
pull
Entries 98
Mean −368.9
Std Dev 0

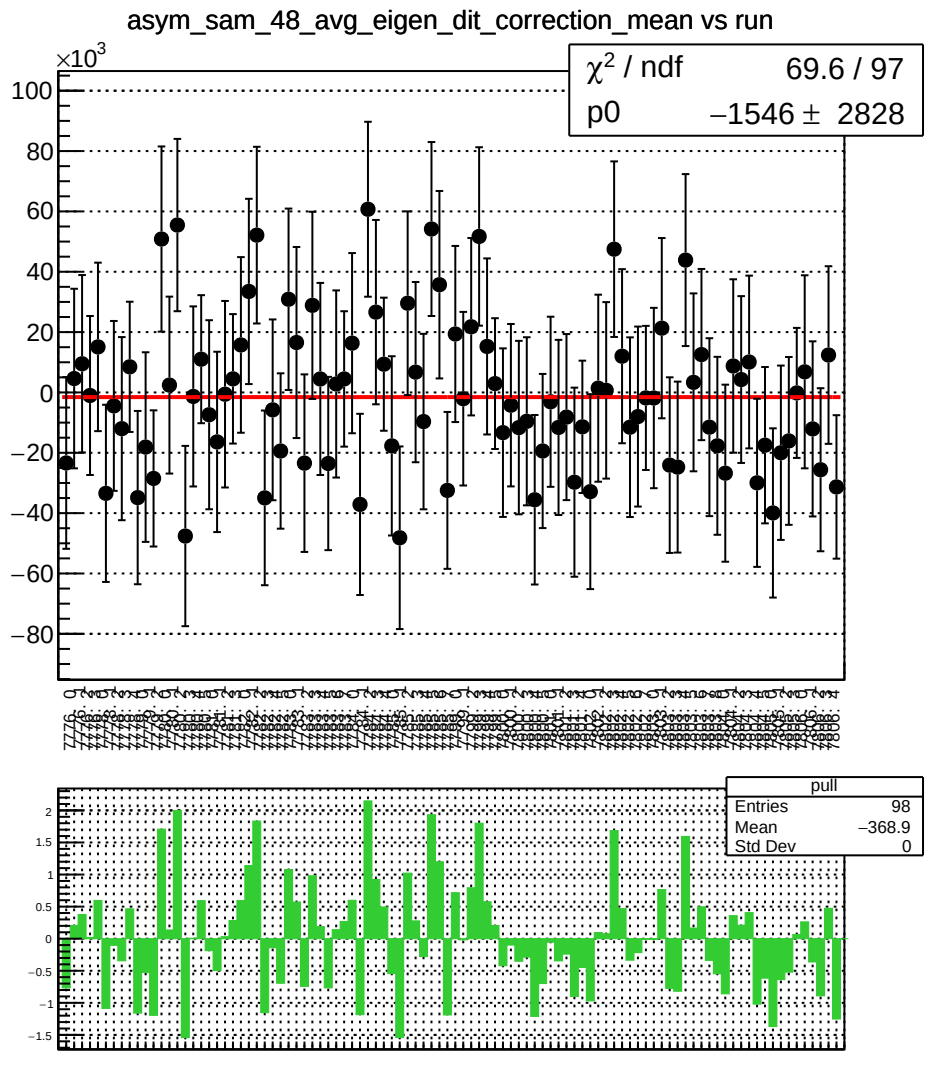

pull1D
Entries 98
Mean 0.007711
Std Dev 0.8427

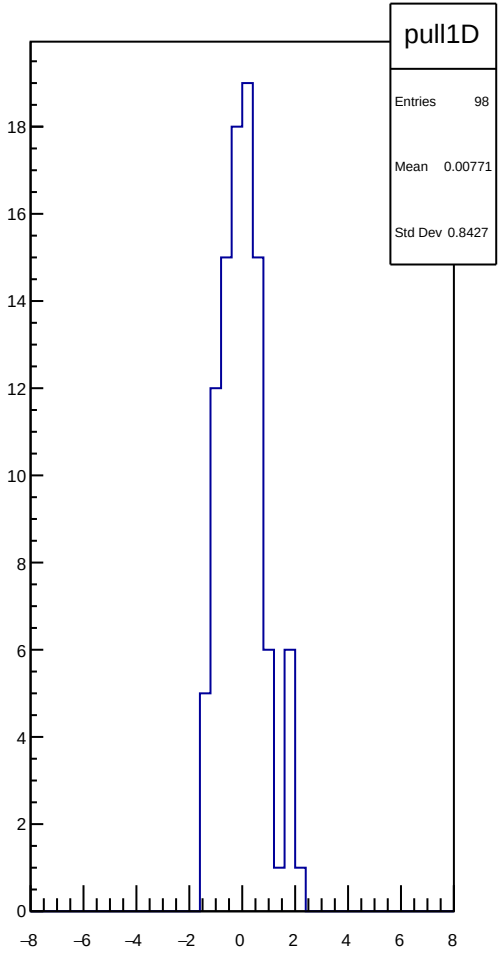

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2468 / 97
p0 2786 ± 2
3100
3000
2900
2800
2700
2600
2500

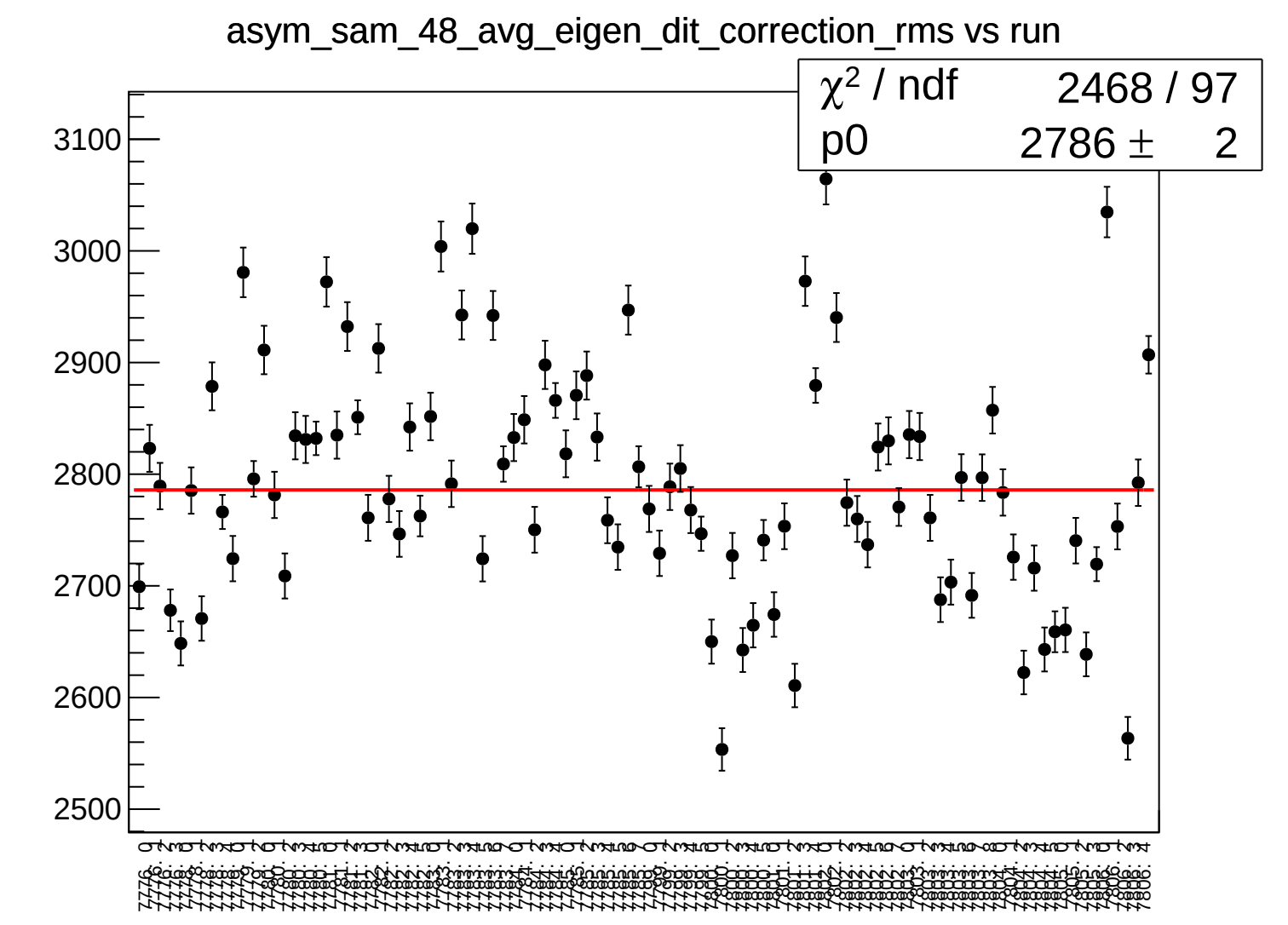

eigen_dit_asym_sam_48_avg_mean vs run
χ^2 / ndf 107.2 / 97
p0 19.92 ± 229.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 98
Mean 35.69
Std Dev 80.22
2
1
0
−1
−2
−3

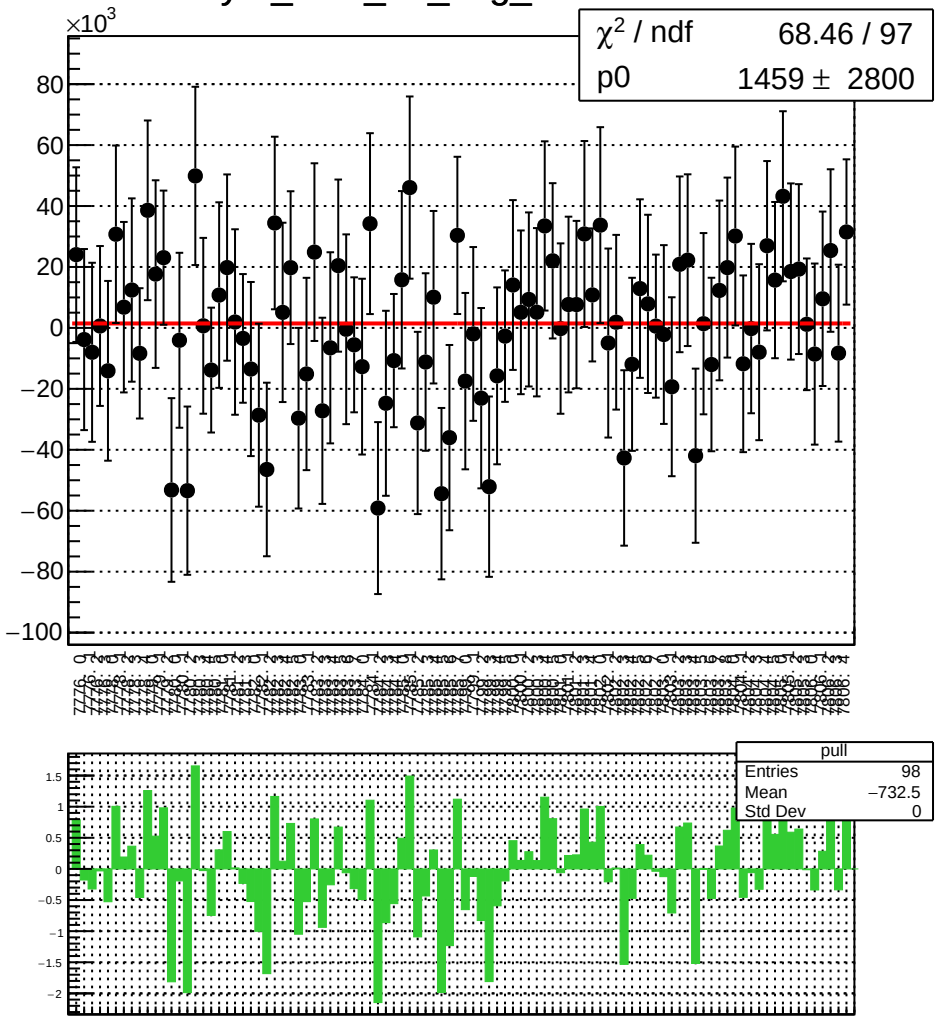

pull1D
Entries 98
Mean 0.02047
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

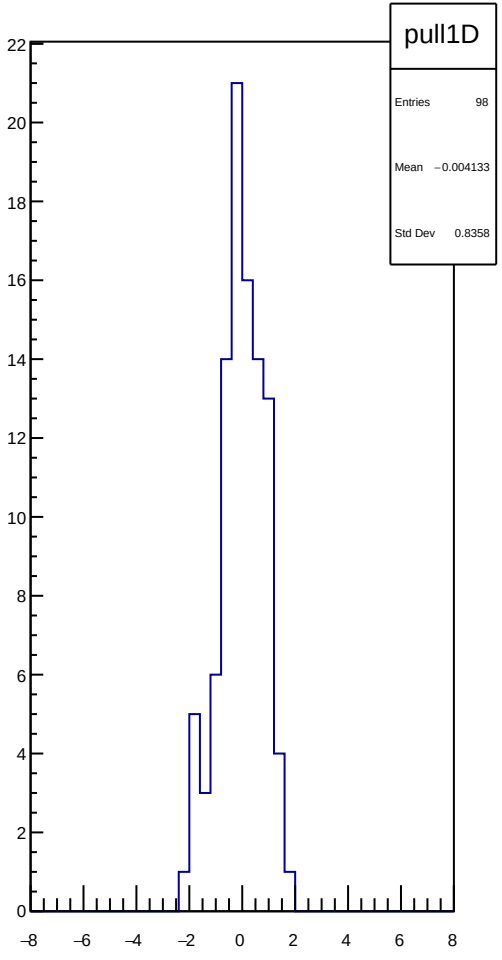

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 7762 / 97
p0 225.6 ± 0.1622
320
300
280
260
240
220
200

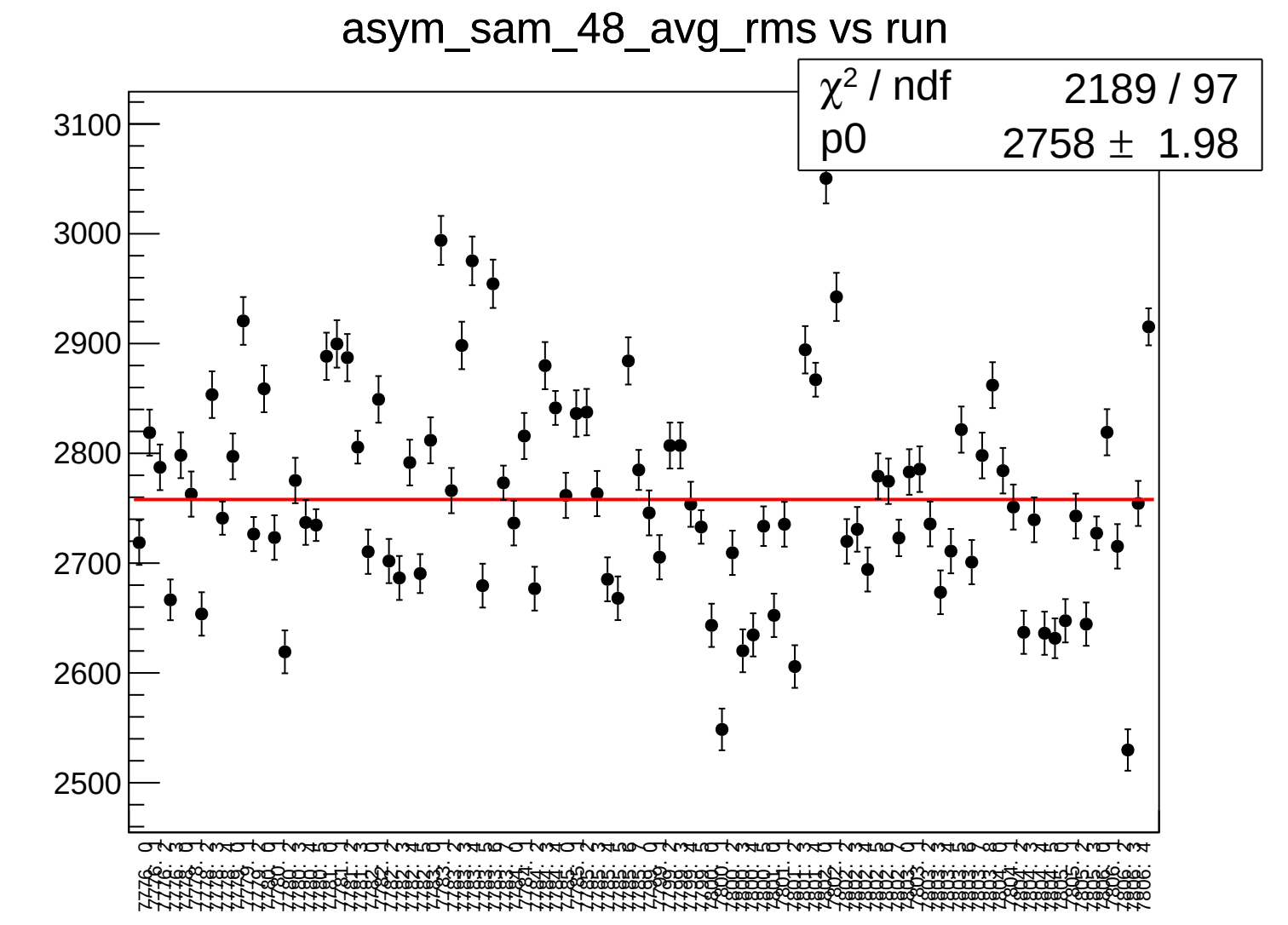

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.6 / 97
p0 −1546 ± 2828
pull
Entries 98
Mean −368.9
Std Dev 0

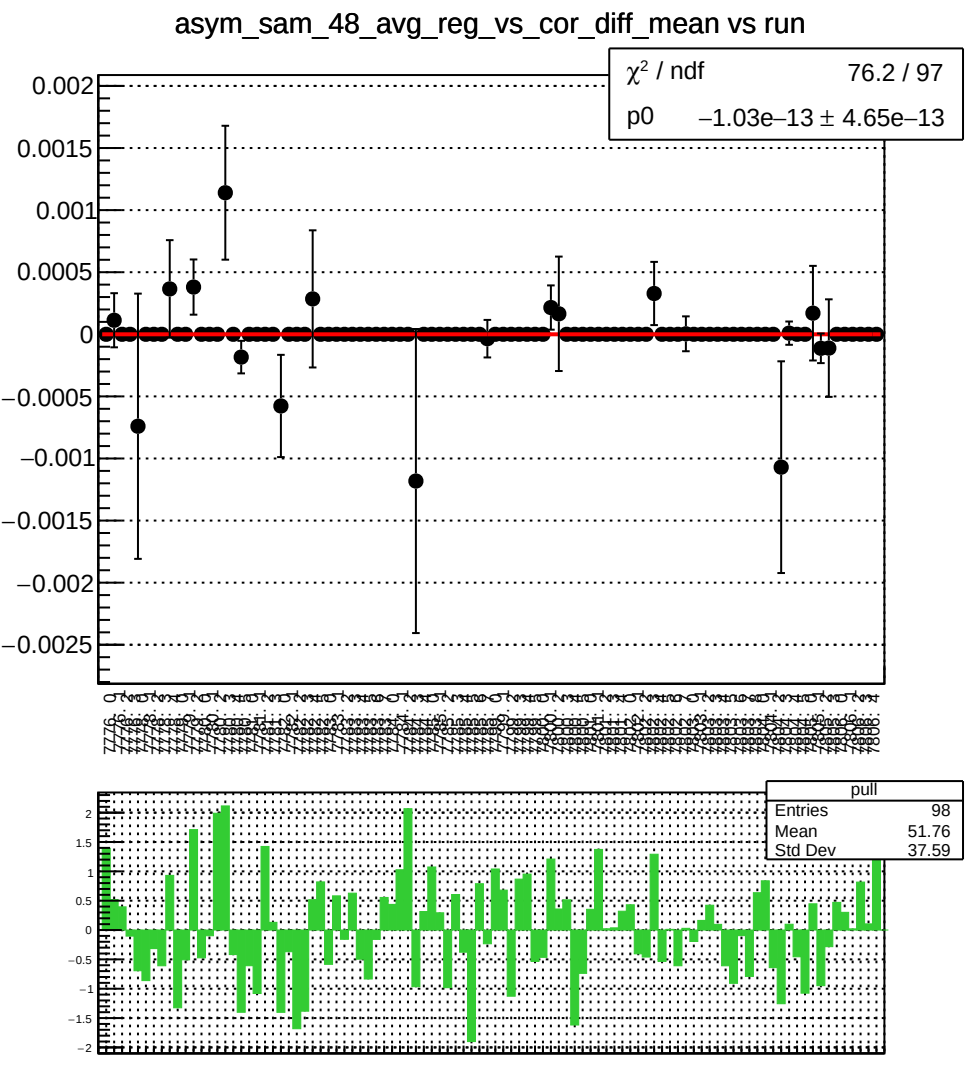

pull1D
Entries 98
Mean 0.00771
Std Dev 0.8427

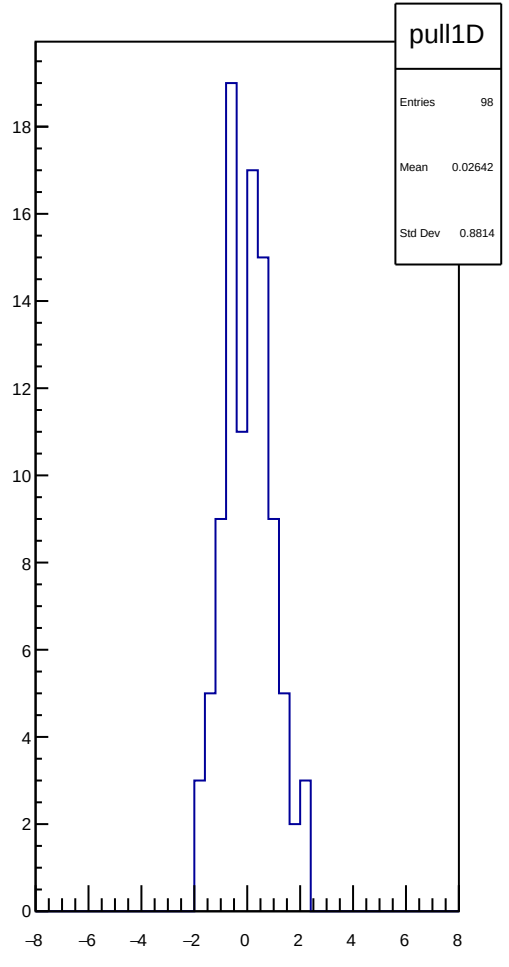

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2468 / 97
p0 2786 ± 2
3100
3000
2900
2800
2700
2600
2500

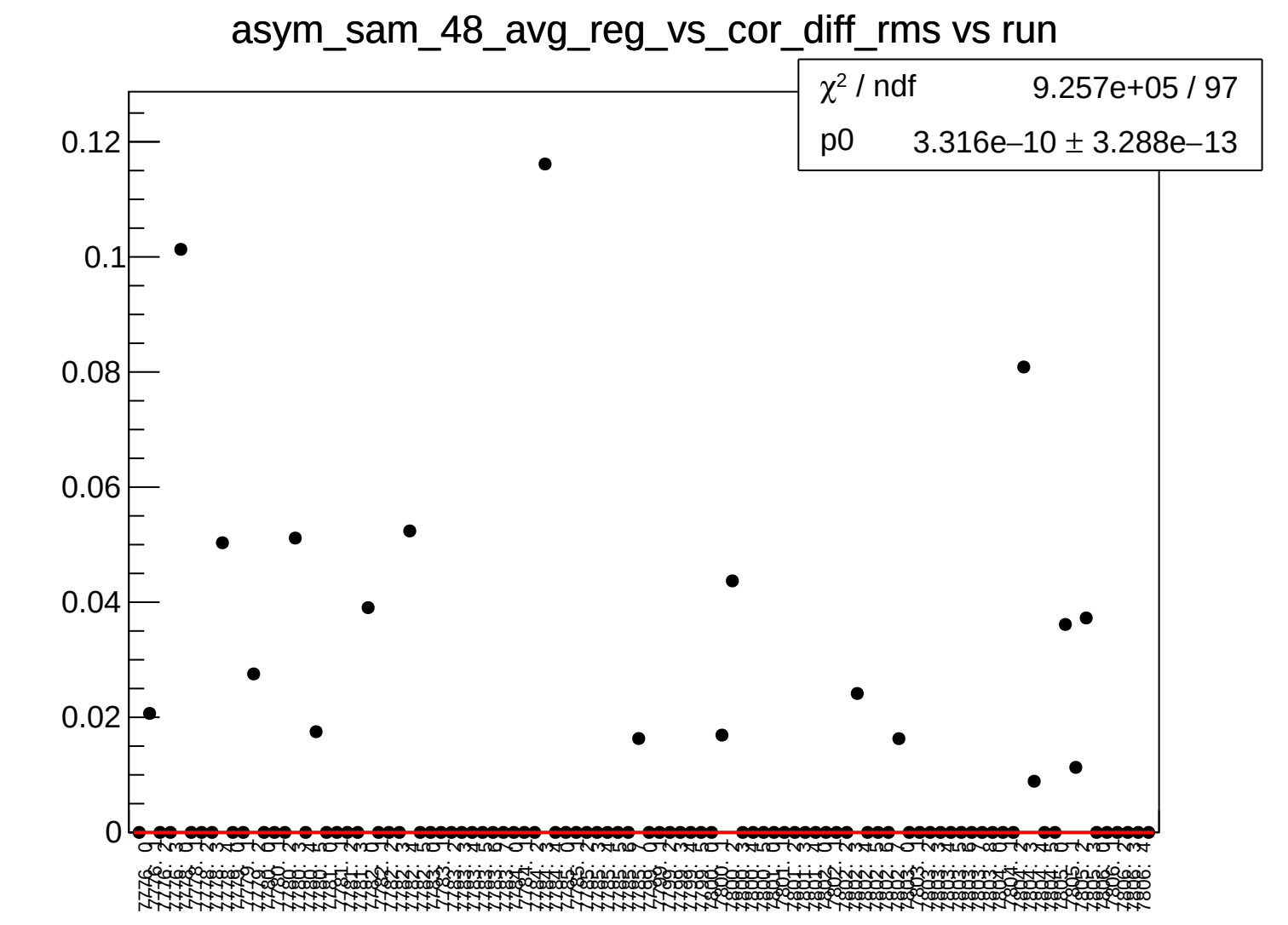

asym_sam_48_avg_mean vs run
χ² / ndf 68.46 / 97
p0 1459 ± 2800
pull
Entries 98
Mean −732.5
Std Dev 0

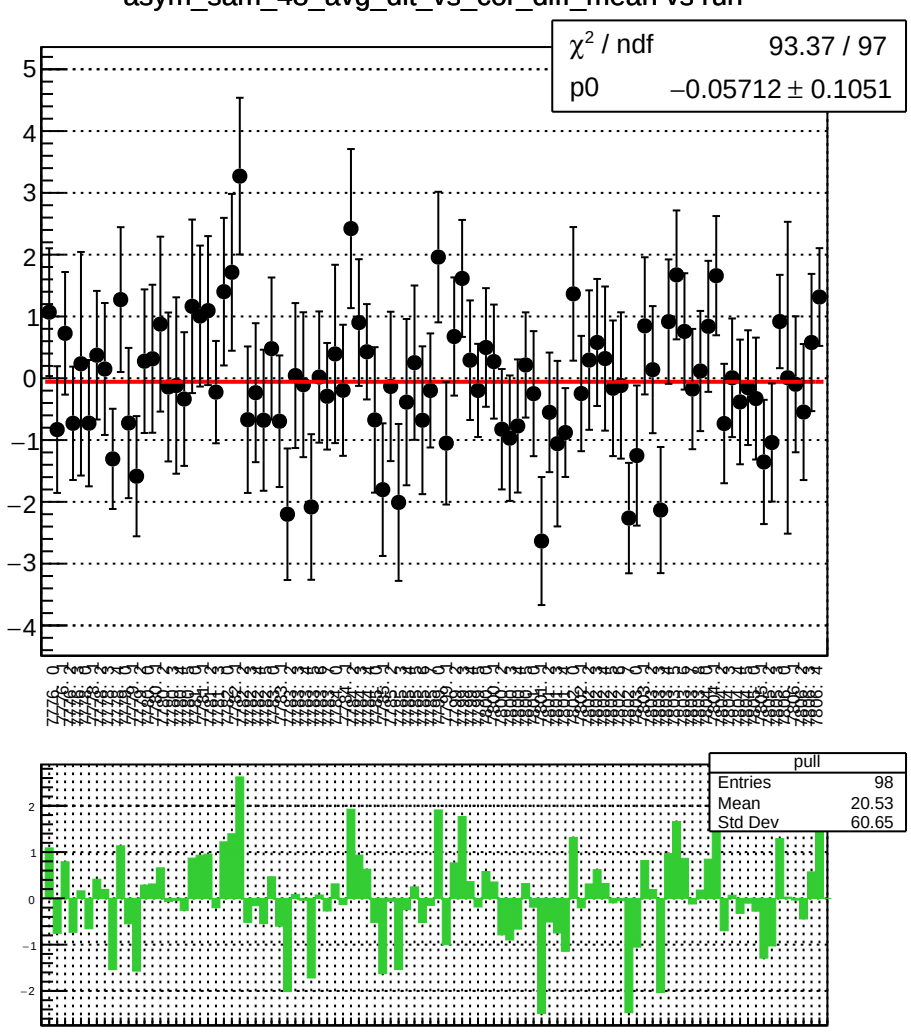

pull1D
Entries 98
Mean −0.004133
Std Dev 0.8358

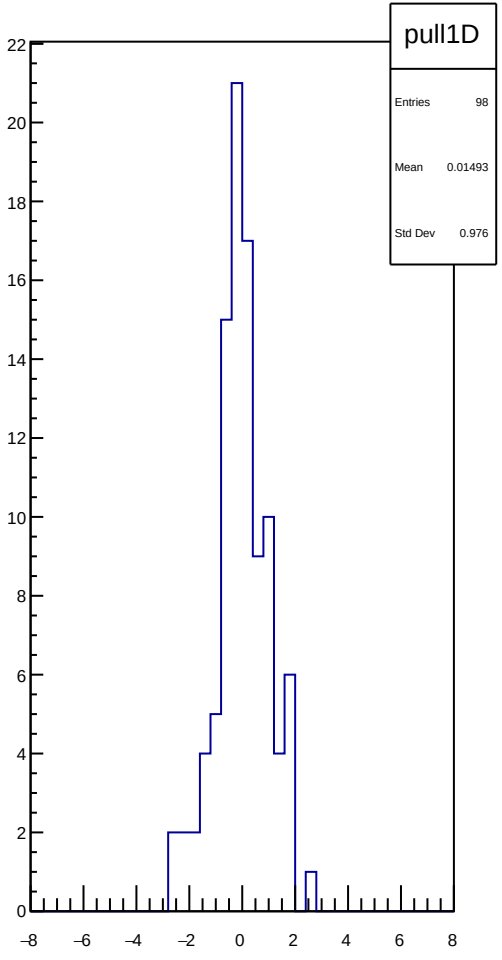

asym_sam_48_avg_rms vs run
χ² / ndf 2189 / 97
p0 2758 ± 1.98
3100
3000
2900
2800
2700
2600
2500

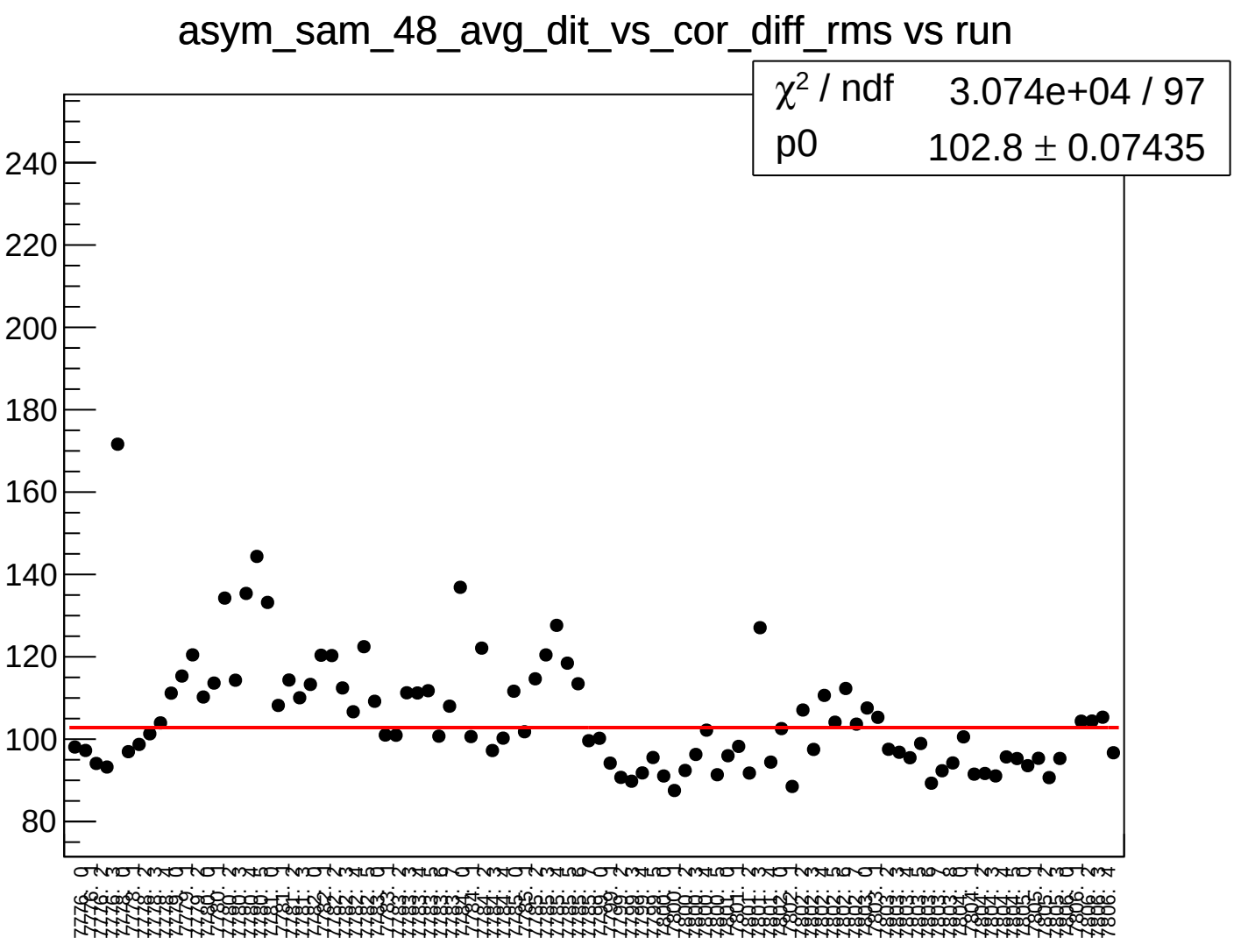

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.2 / 97
p0 −1.03e−13 ± 4.65e−13
pull
Entries 98
Mean 51.76
Std Dev 37.59

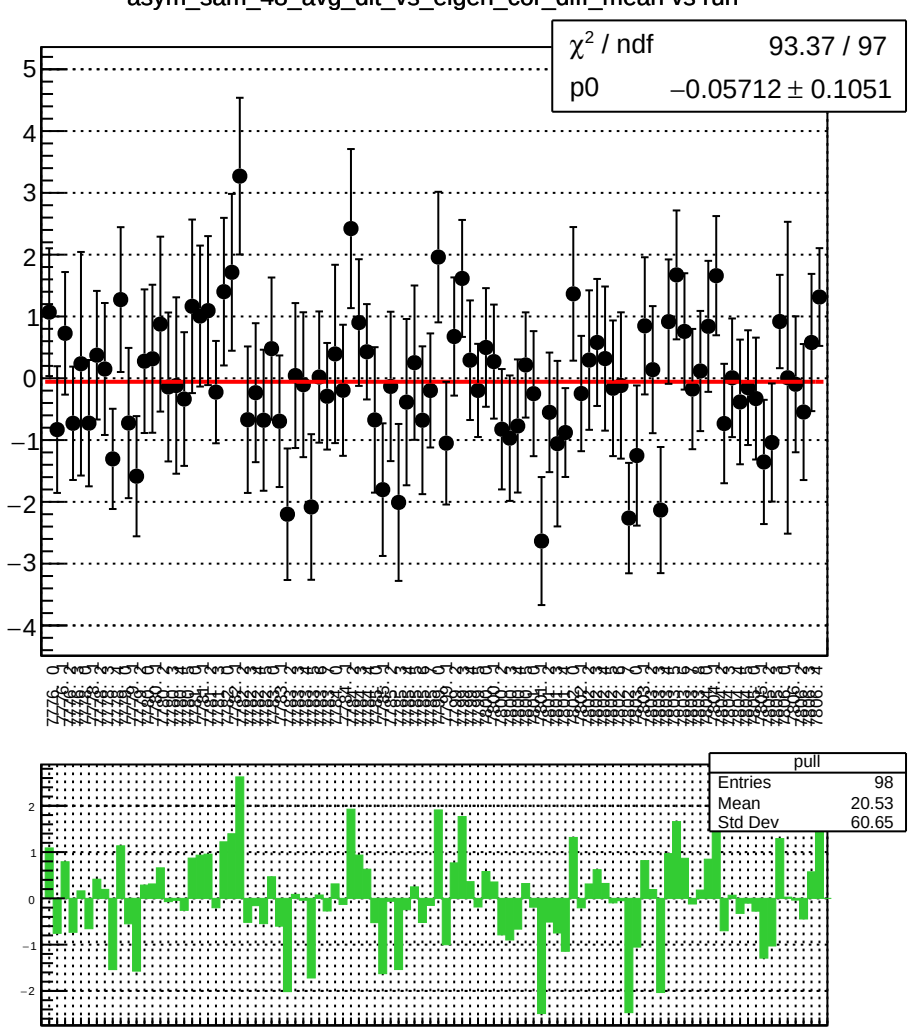

pull1D
Entries 98
Mean 0.02642
Std Dev 0.8814

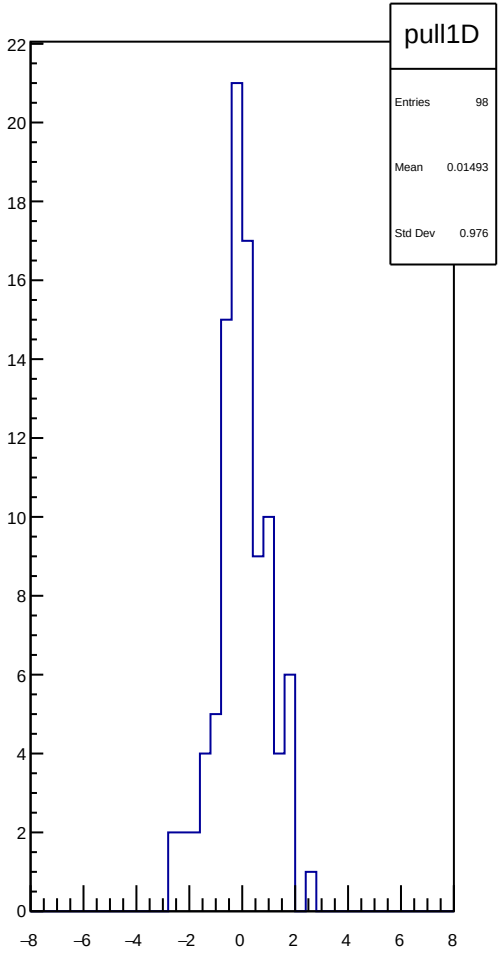

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.257e+05 / 97
p0 3.316e−10 ± 3.288e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

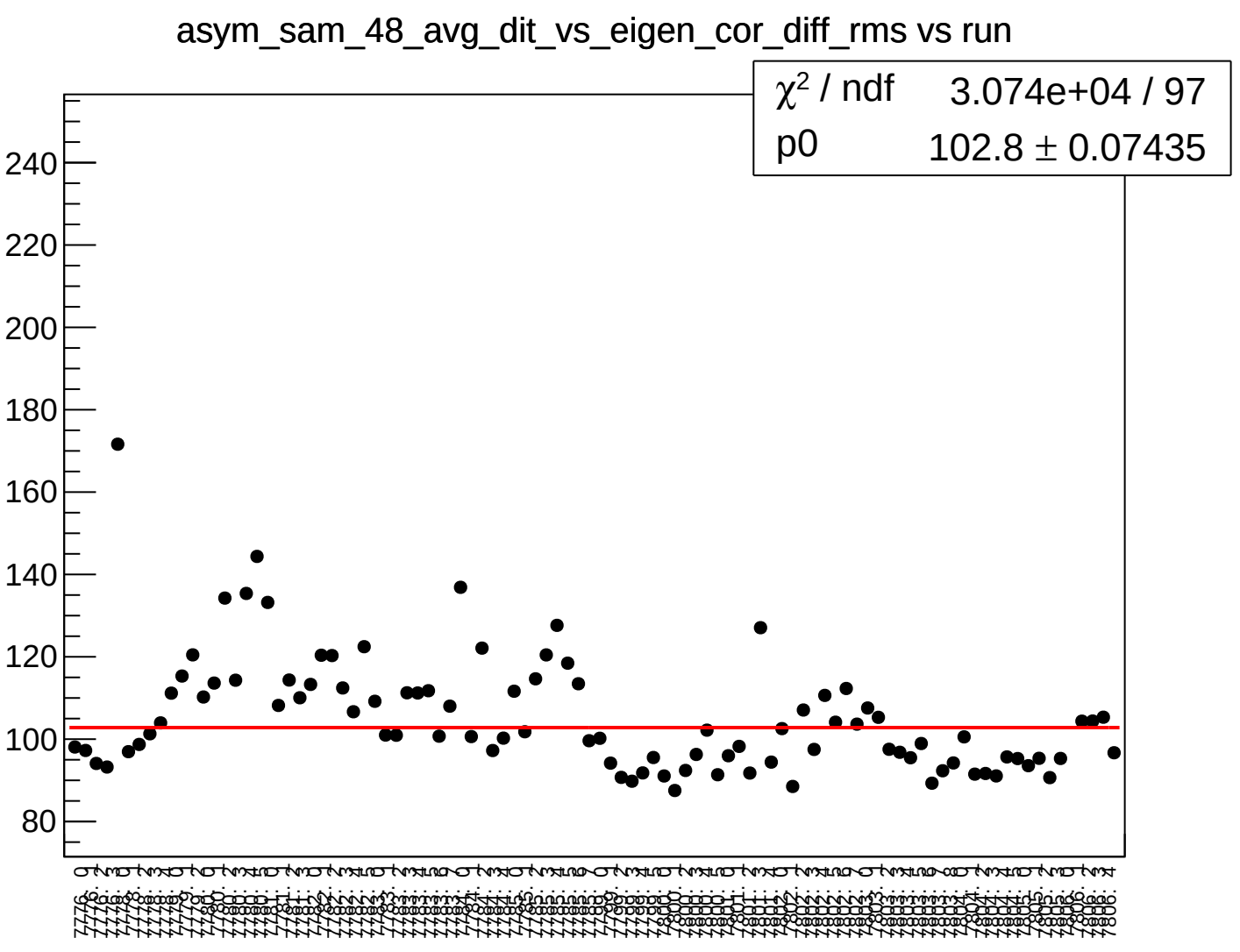

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.37 / 97
p0 −0.05712 ± 0.1051
pull
Entries 98
Mean 20.53
Std Dev 60.65

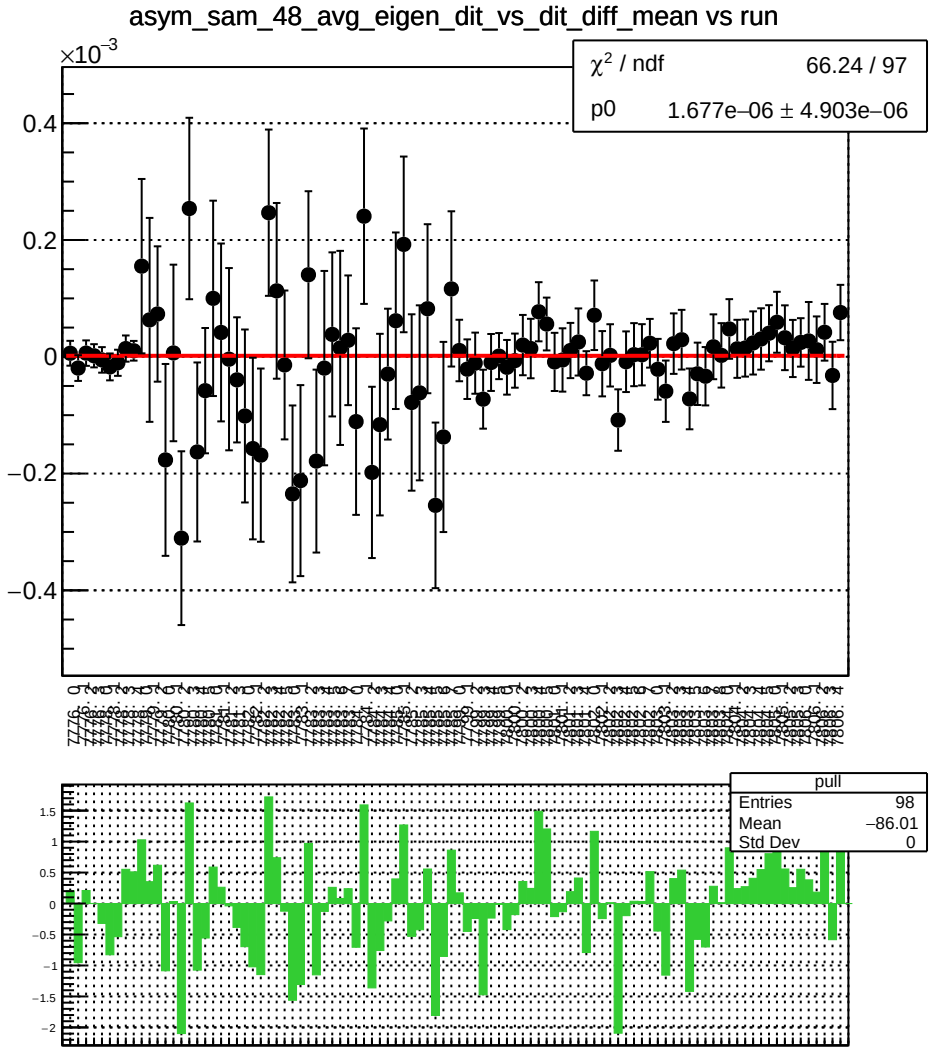

pull1D
Entries 98
Mean 0.01493
Std Dev 0.976

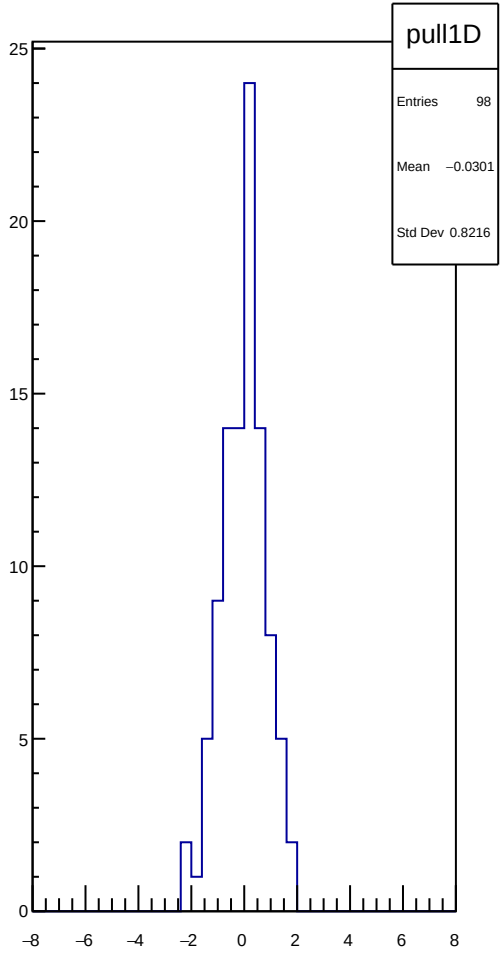

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.074e+04 / 97
p0 102.8 ± 0.07435
240
220
200
180
160
140
120
100
80

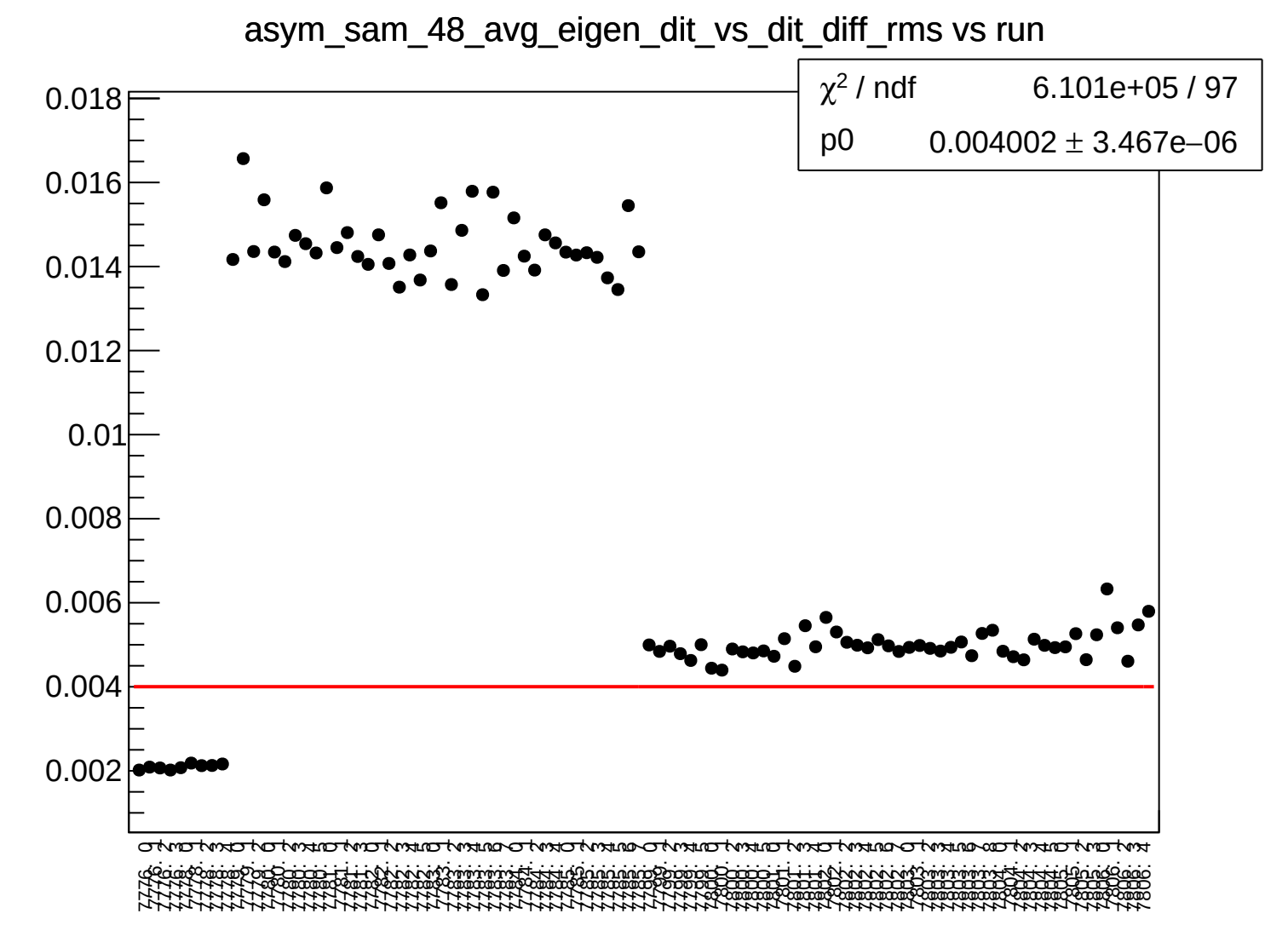

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.37 / 97
p0 −0.05712 ± 0.1051
pull
Entries 98
Mean 20.53
Std Dev 60.65


pull1D
Entries 98
Mean 0.01493
Std Dev 0.976

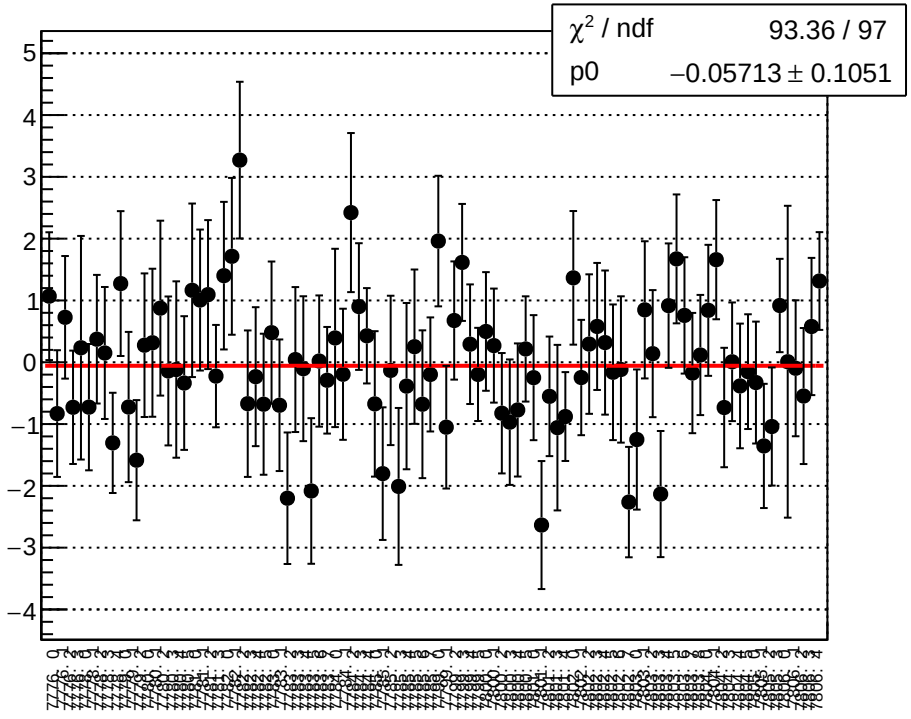

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.074e+04 / 97
p0 102.8 ± 0.07435
240
220
200
180
160
140
120
100
80

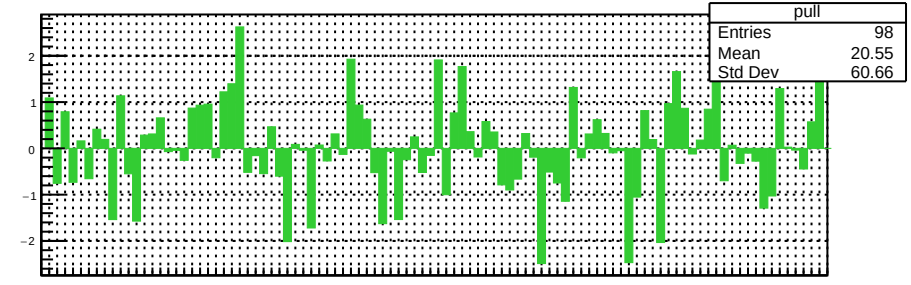

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.24 / 97
p0 1.677e−06 ± 4.903e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 98
Mean −86.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

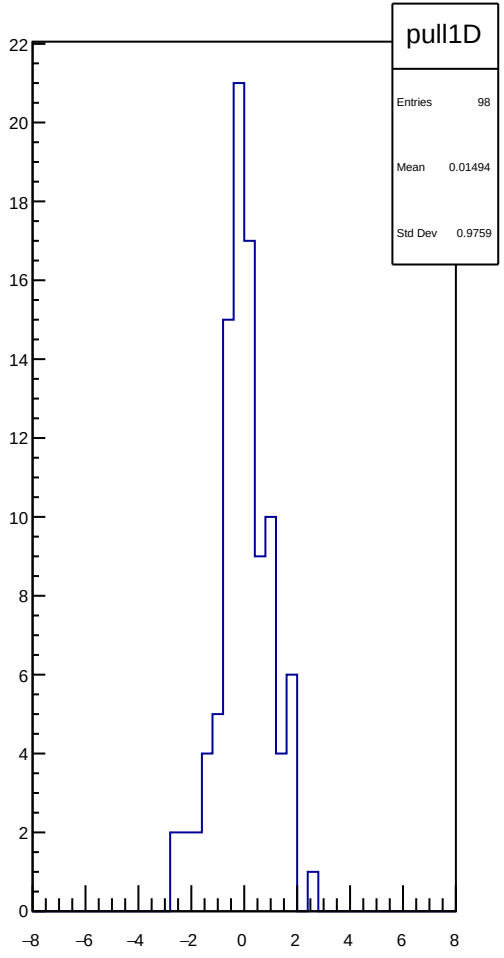

pull1D
Entries 98
Mean −0.0301
Std Dev 0.8216
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

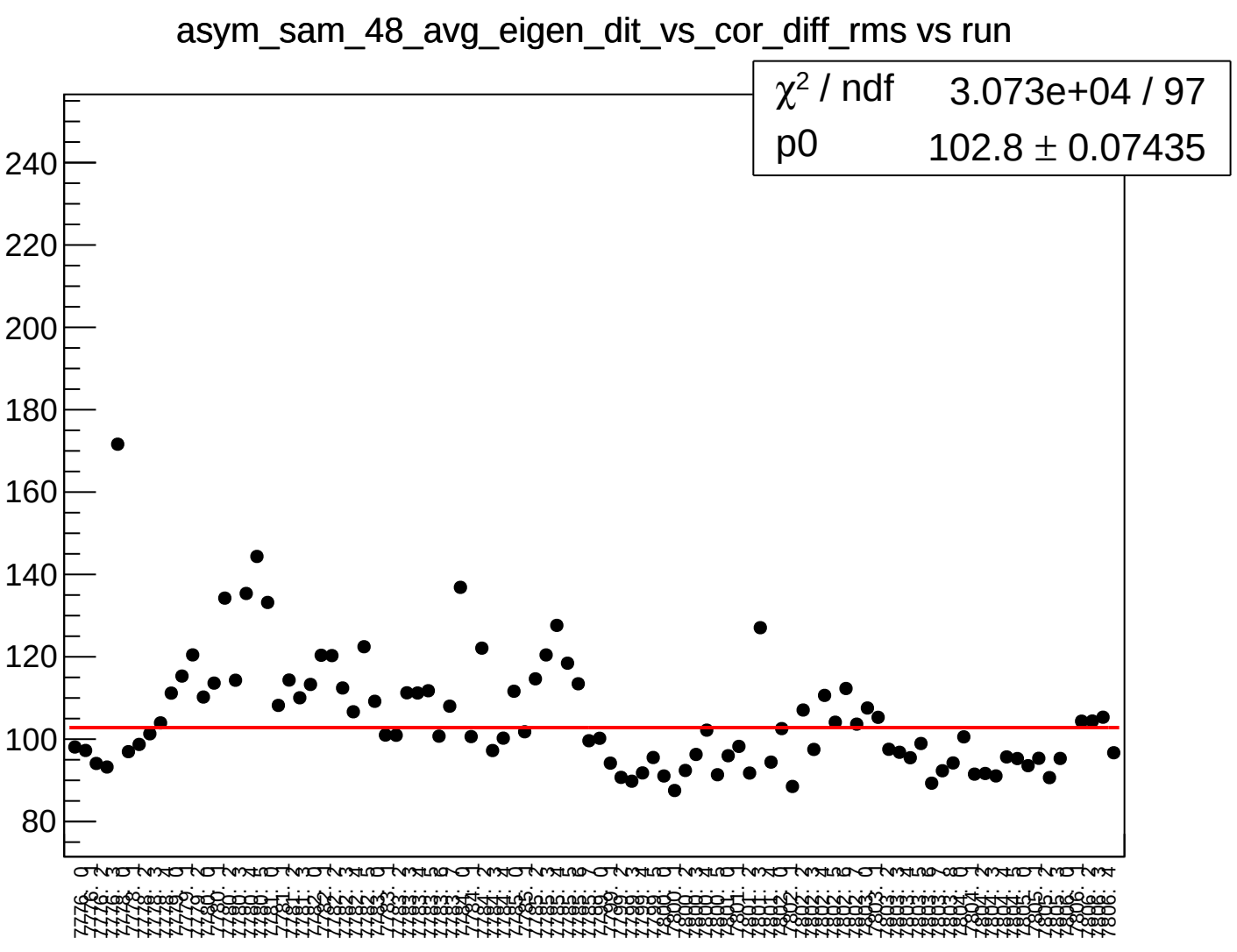

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.101e+05 / 97
p0 0.004002 ± 3.467e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

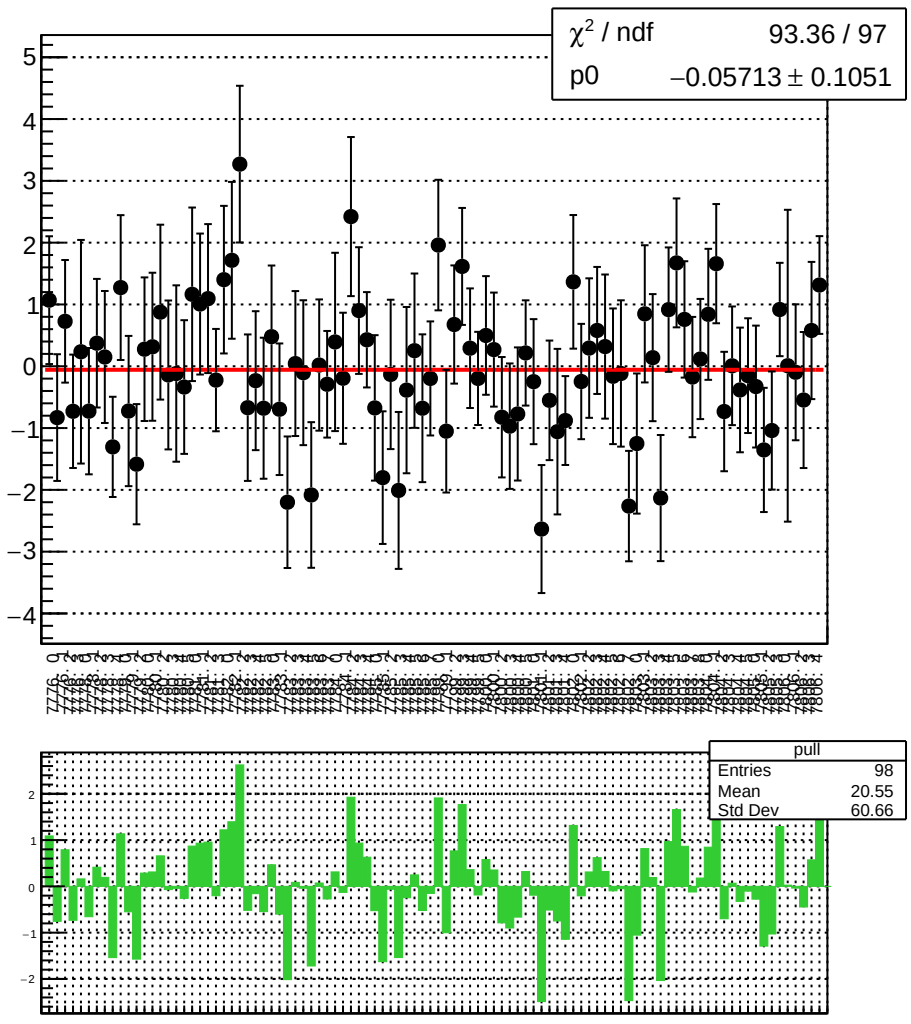
asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run

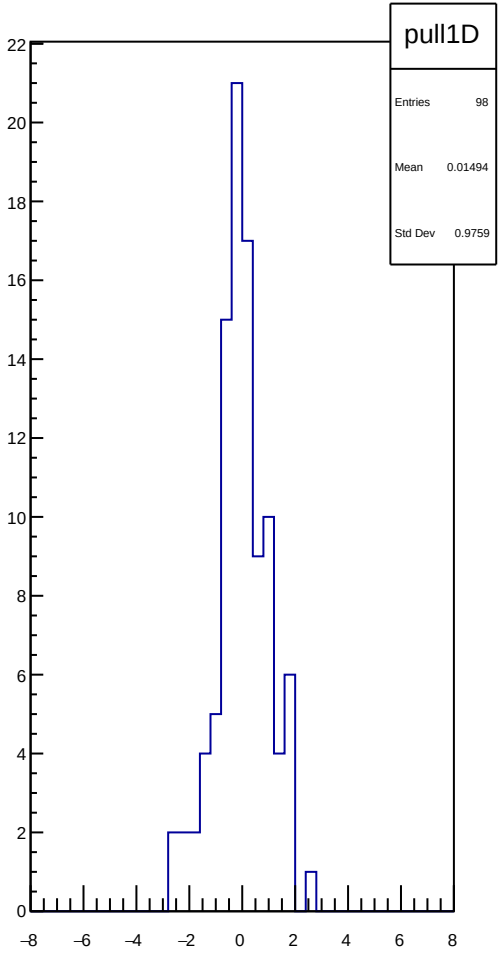


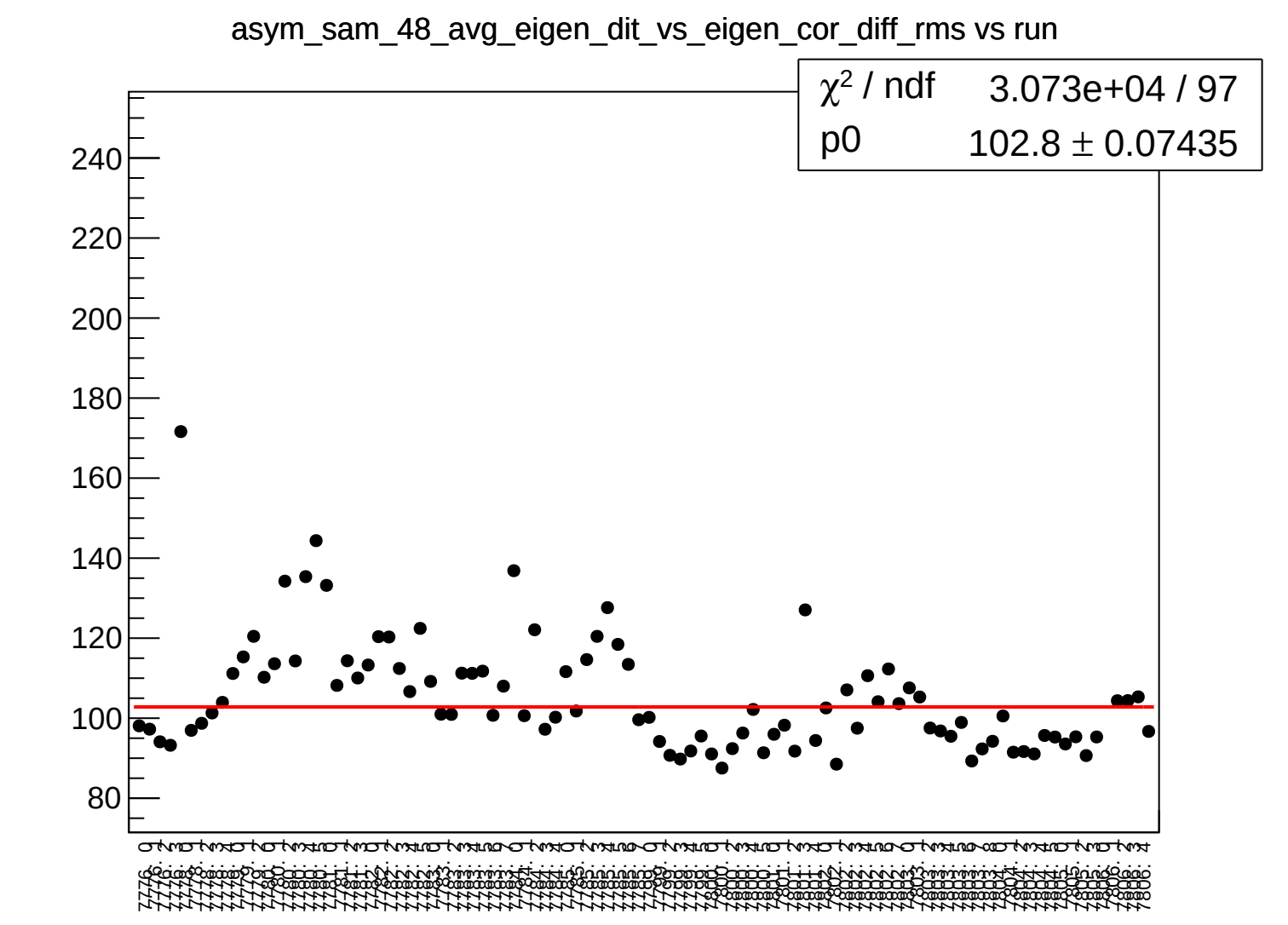


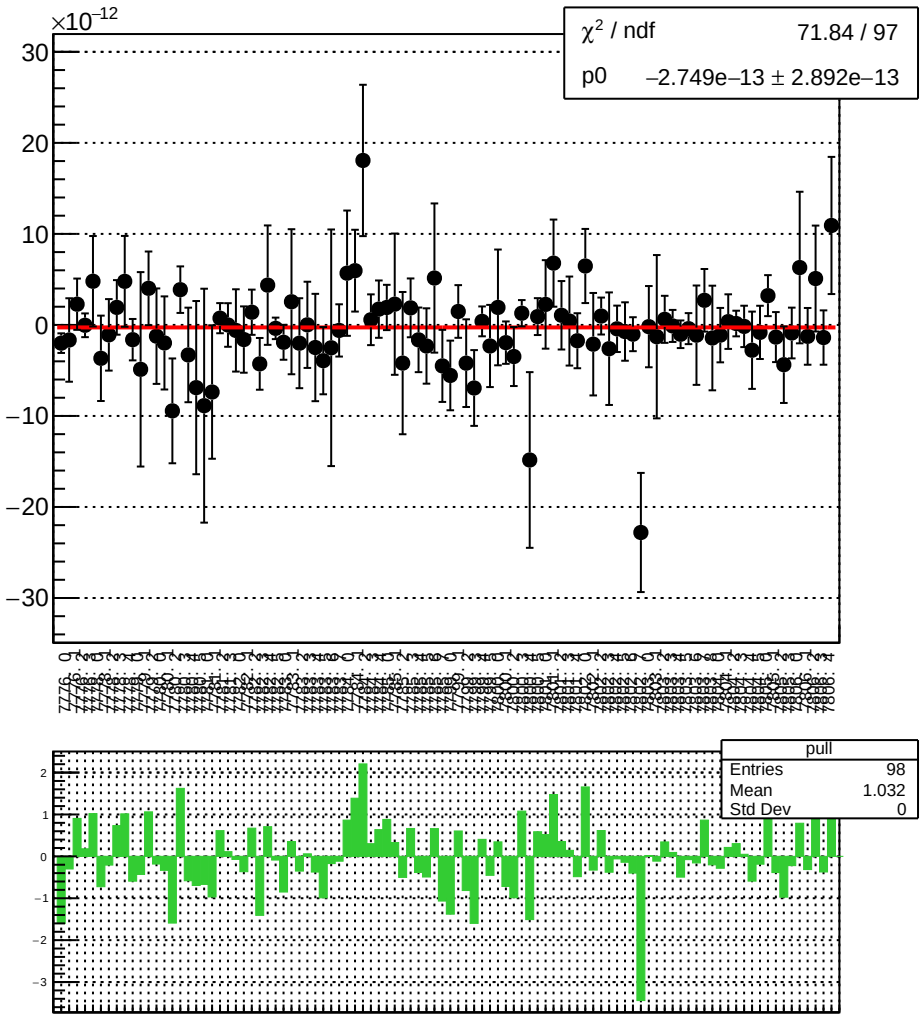


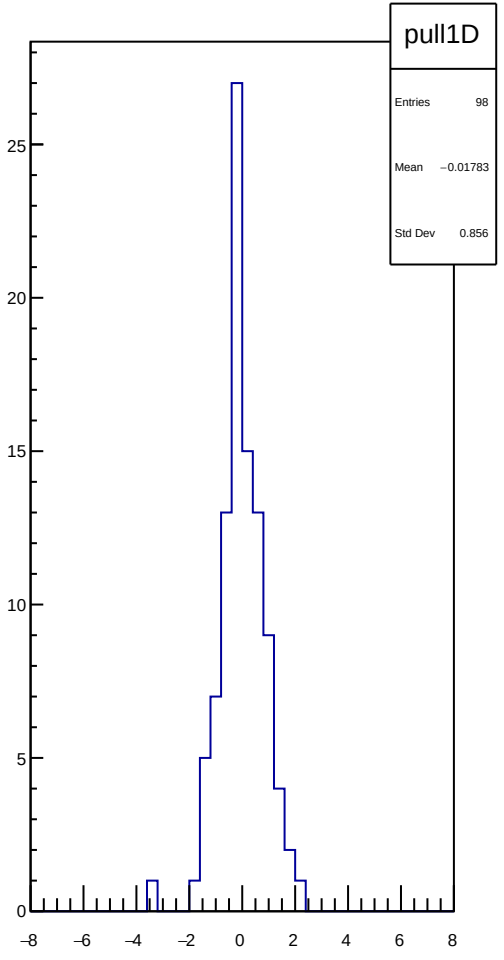

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.073e+04 / 97
p0 102.8 ± 0.07435
240
220
200
180
160
140
120
100
80

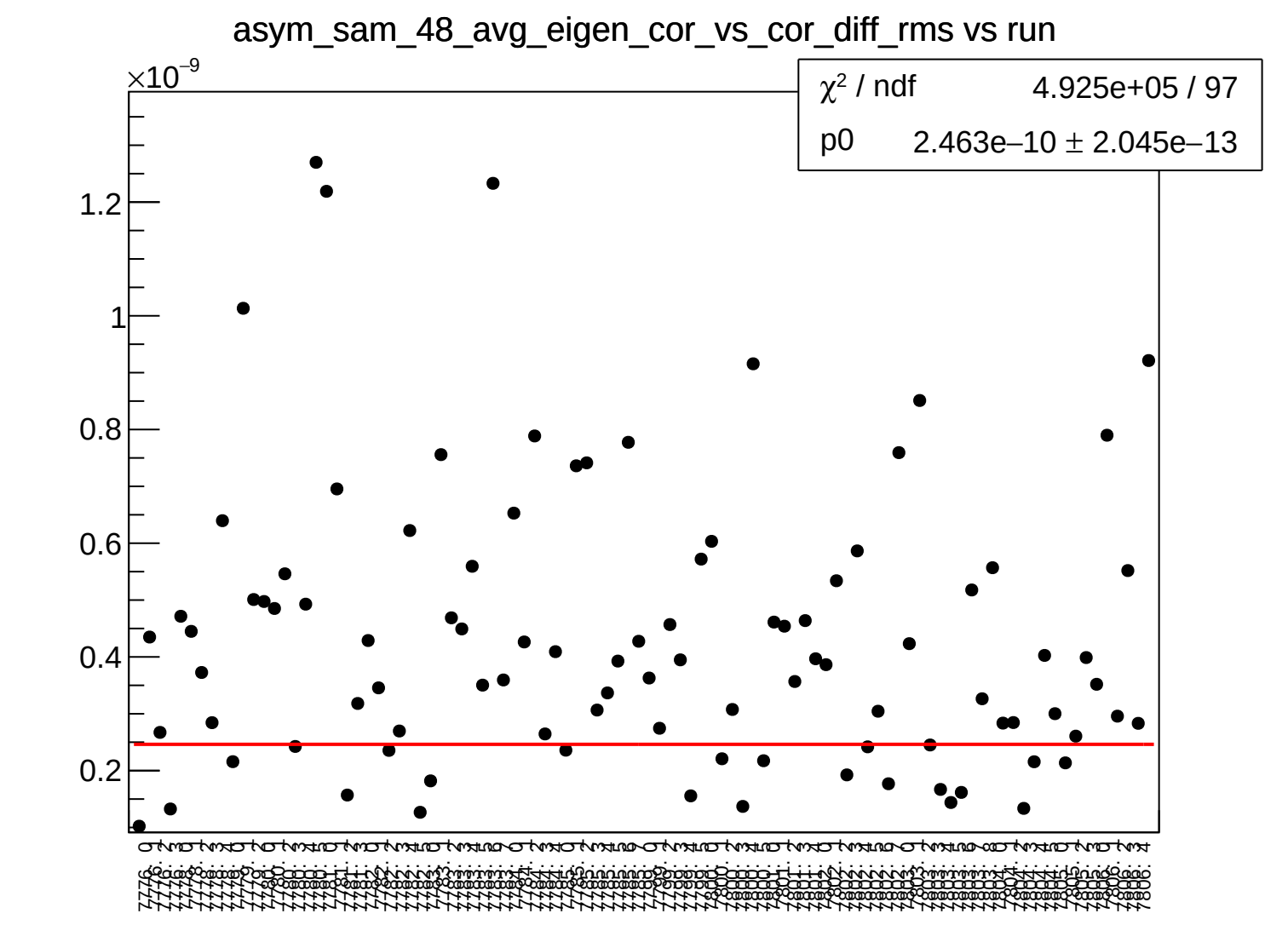

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.36 / 97
p0 −0.05713 ± 0.1051
pull
Entries 98
Mean 20.55
Std Dev 60.66

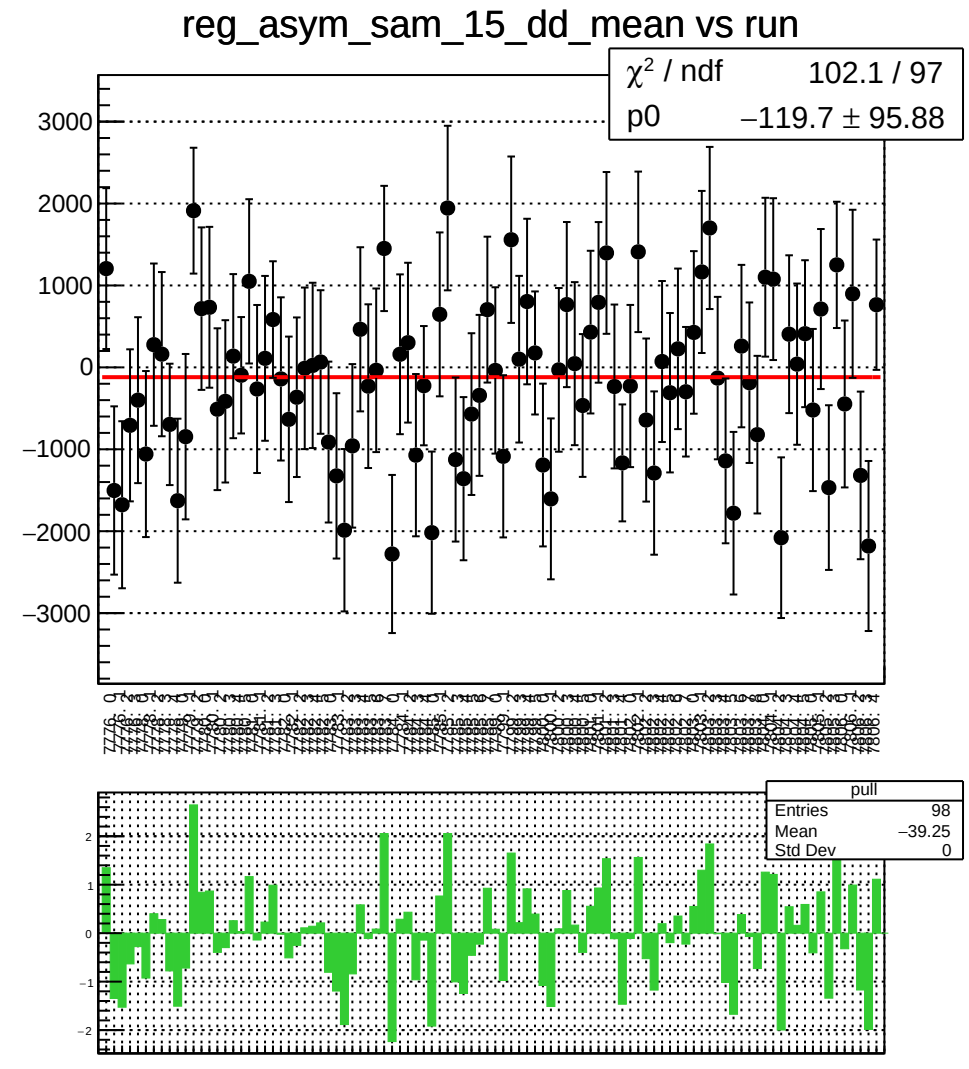

pull1D
Entries 98
Mean 0.01494
Std Dev 0.9759

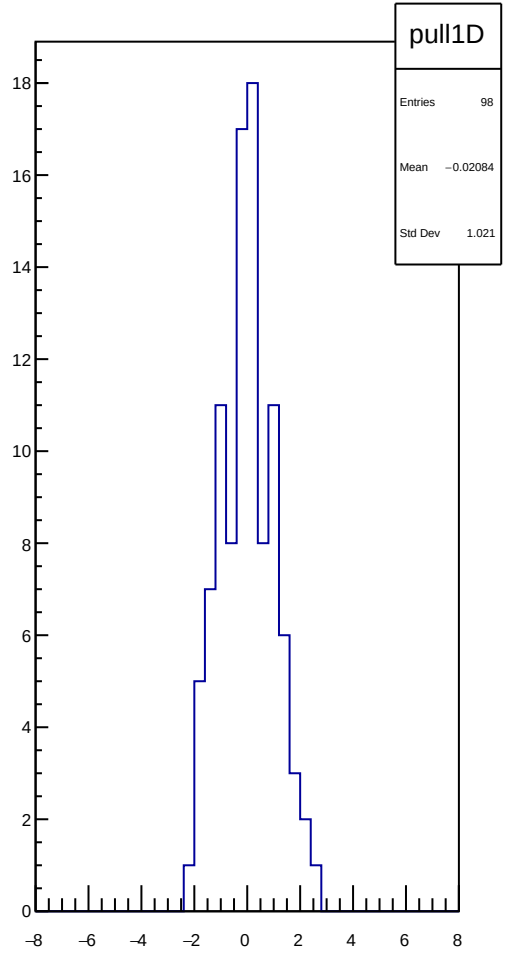

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.073e+04 / 97
p0 102.8 ± 0.07435
240
220
200
180
160
140
120
100
80

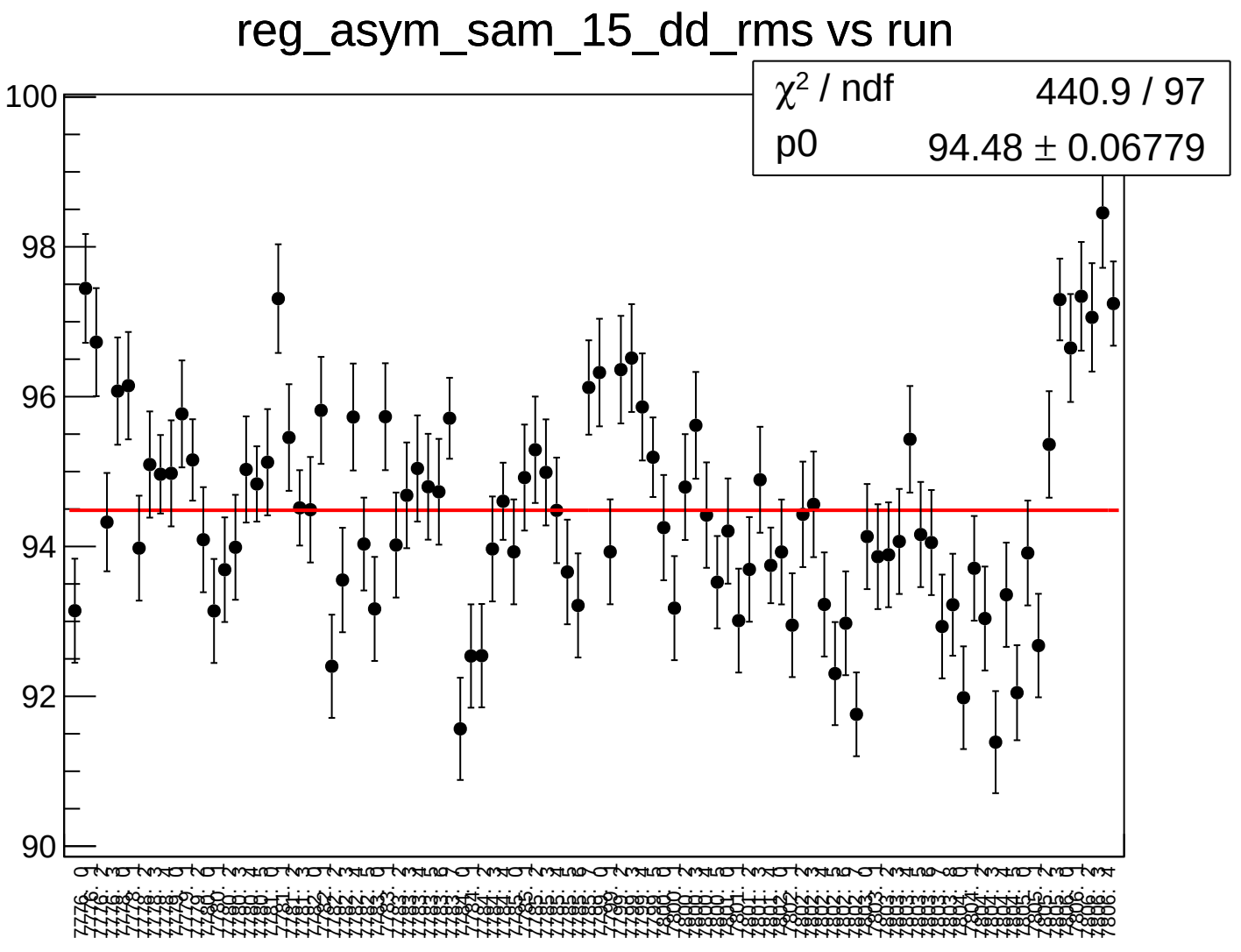

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.84 / 97
p0 −2.749e−13 ± 2.892e−13
pull
Entries 98
Mean 1.032
Std Dev 0

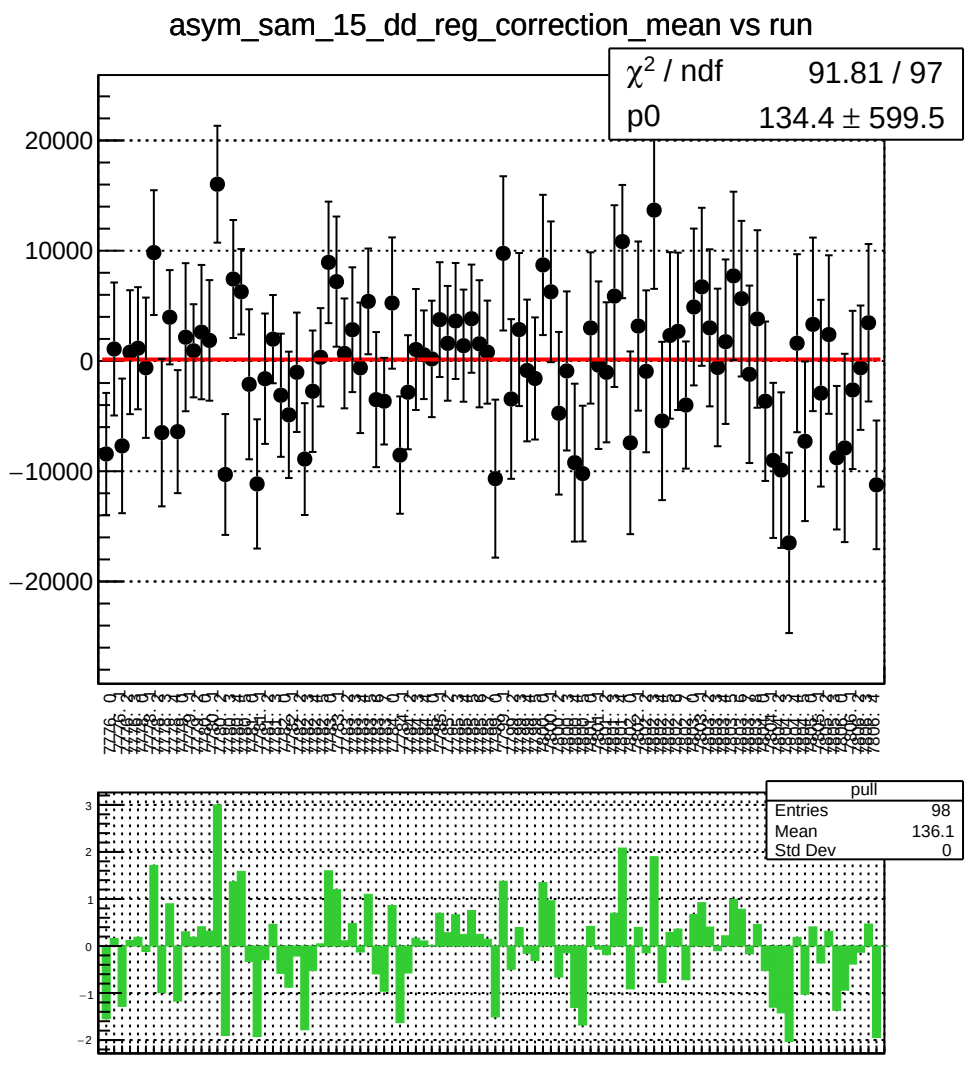

pull1D
Entries 98
Mean −0.01783
Std Dev 0.856

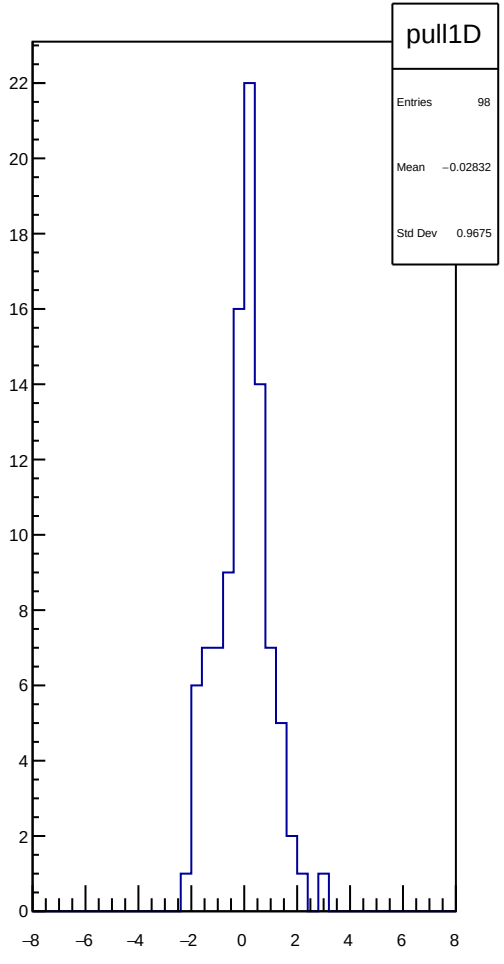

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.925e+05 / 97
p0 2.463e−10 ± 2.045e−13
1.2
1
0.8
0.6
0.4
0.2

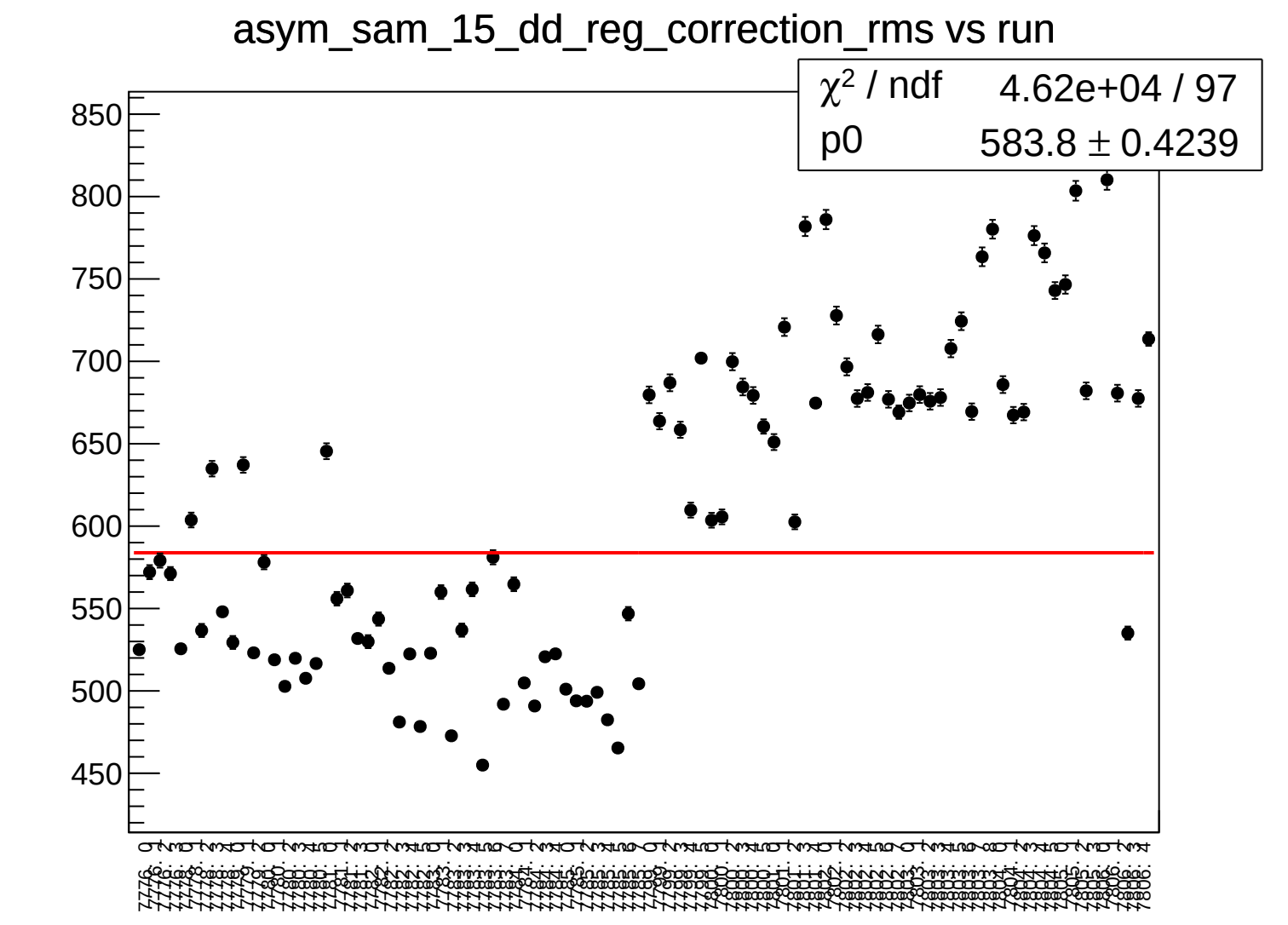

reg_asym_sam_15_dd_mean vs run
χ² / ndf 102.1 / 97
p0 −119.7 ± 95.88
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean −39.25
Std Dev 0
2
1
0
−1
−2

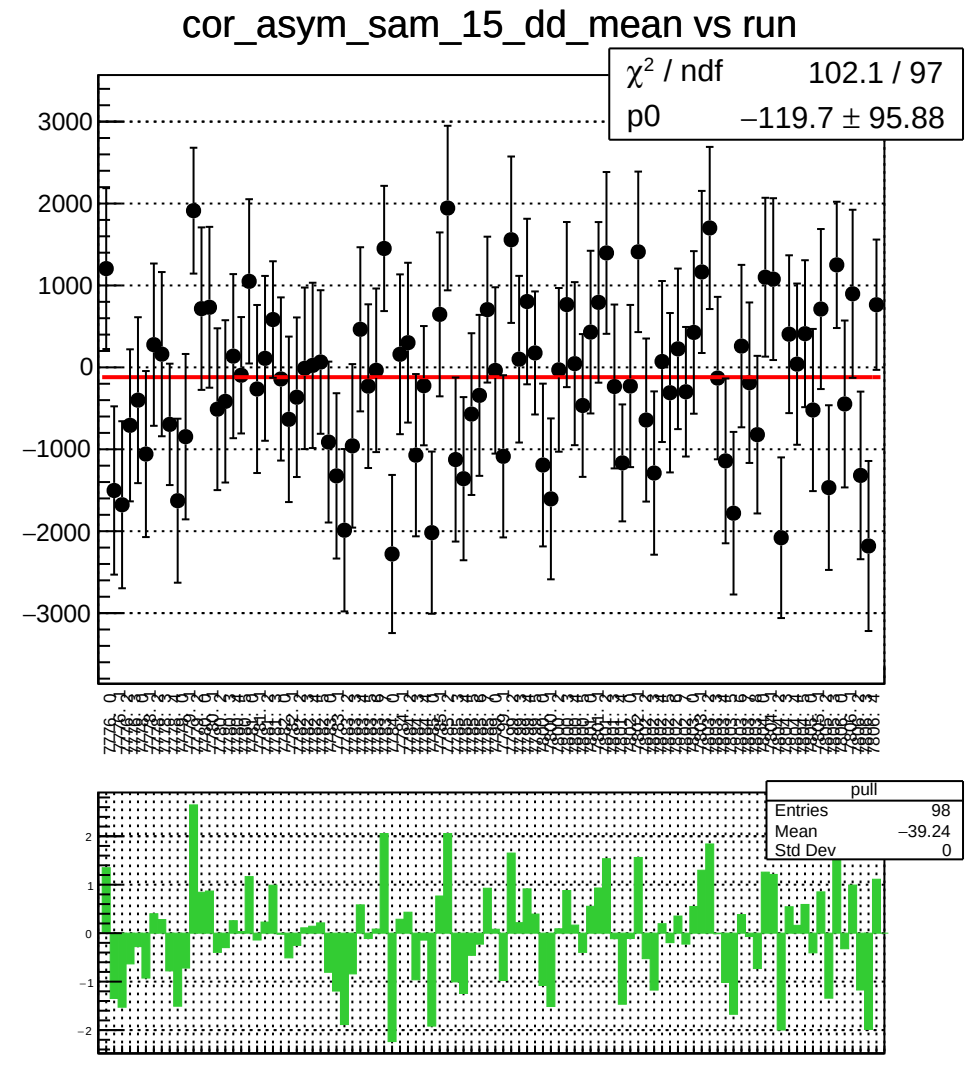

pull1D
Entries 98
Mean −0.02084
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

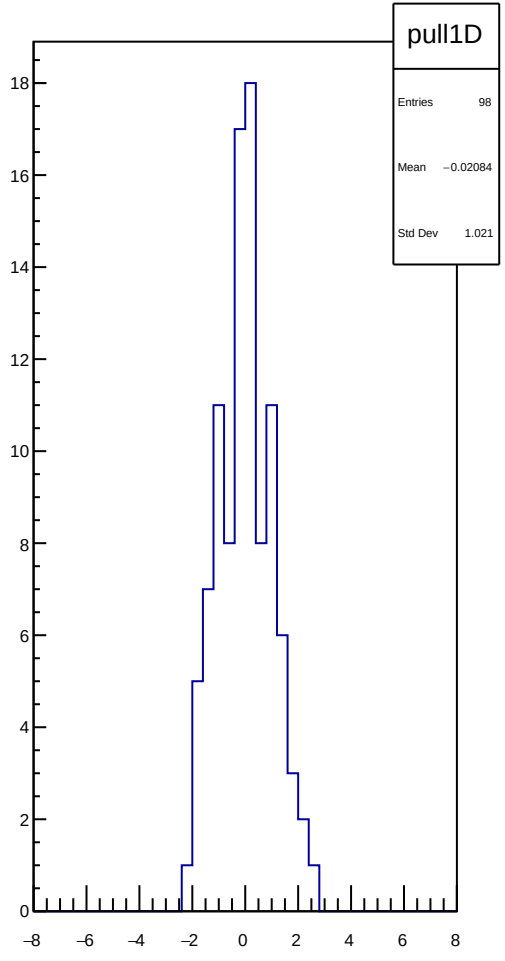

reg_asym_sam_15_dd_rms vs run
χ² / ndf 440.9 / 97
p0 94.48 ± 0.06779
100
98
96
94
92
90

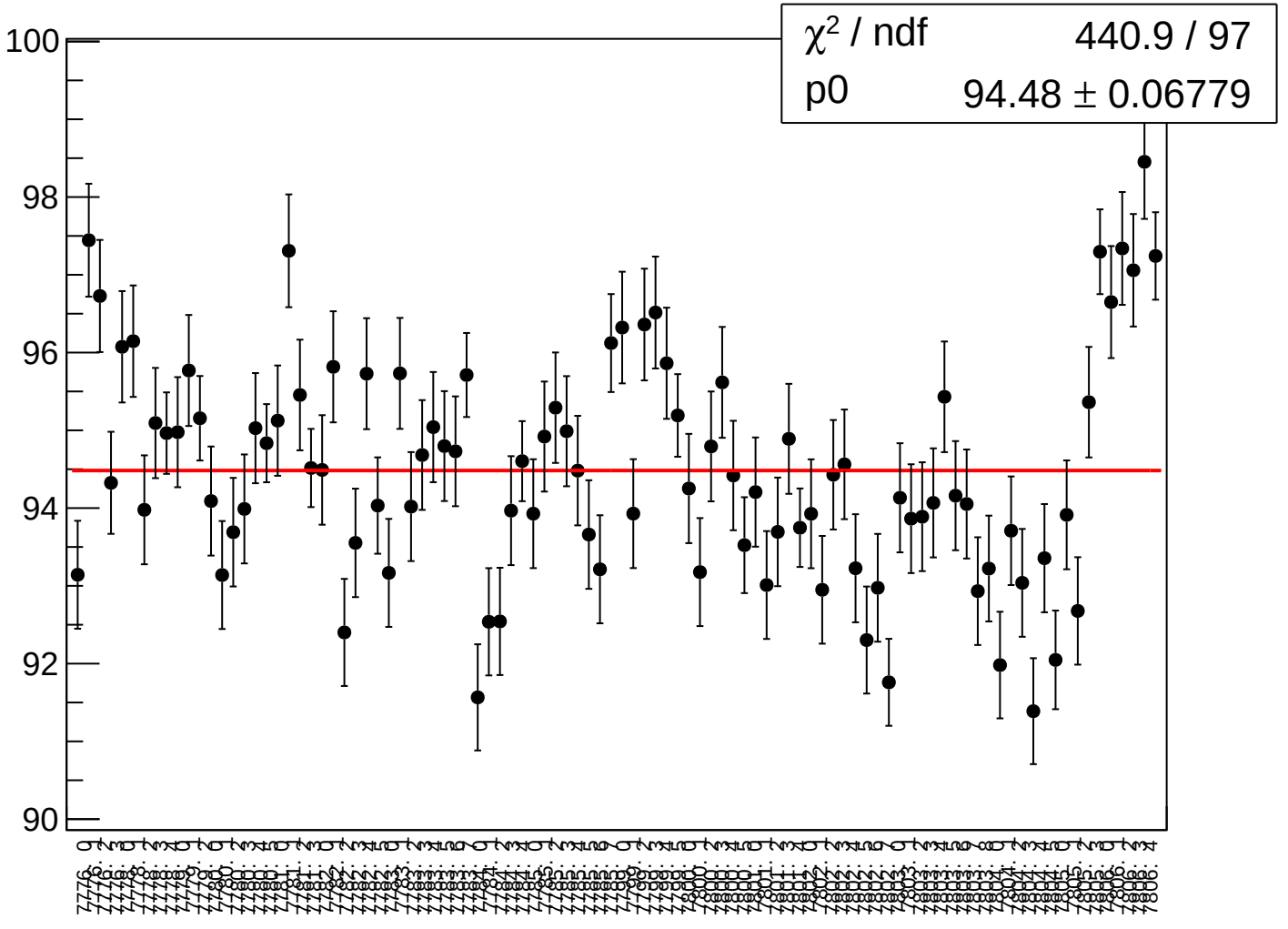

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 91.81 / 97
p0 134.4 ± 599.5
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 136.1
Std Dev 0
3
2
1
0
−1
−2

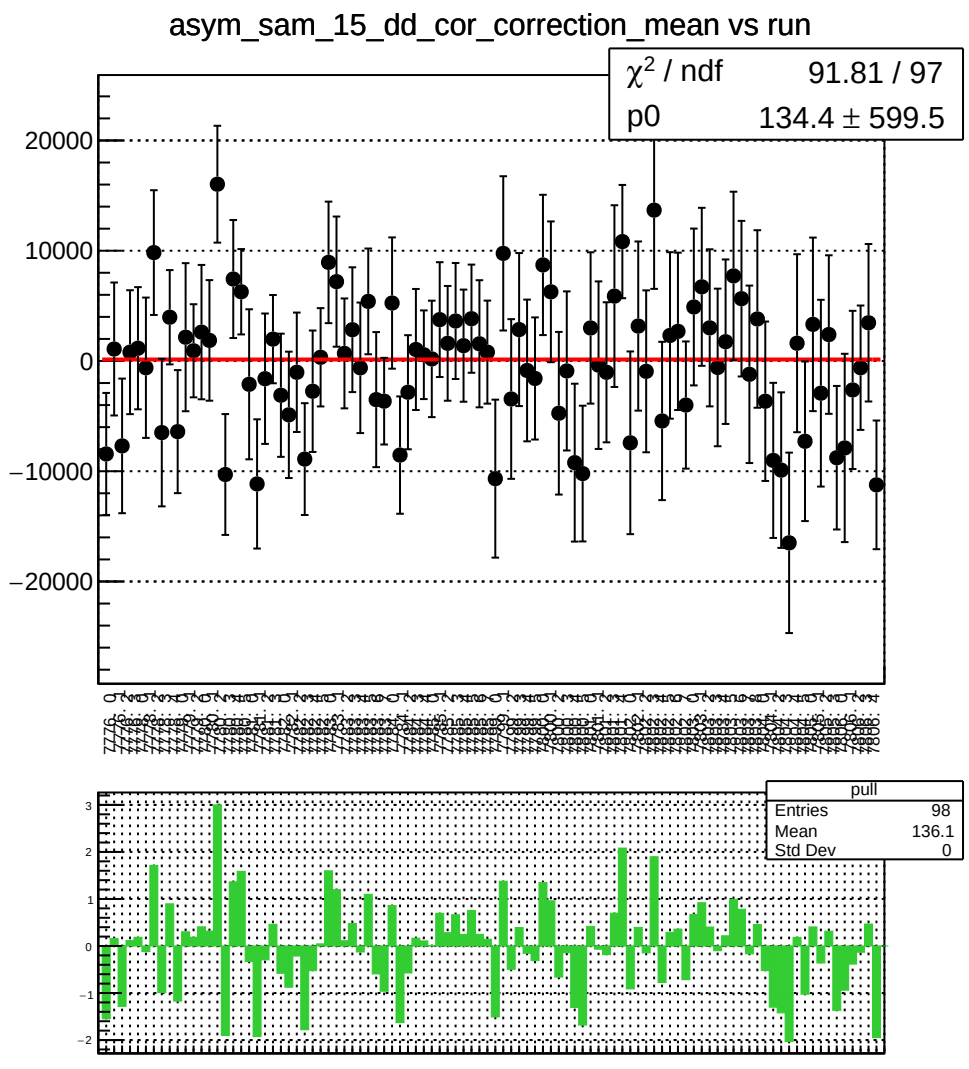

pull1D
Entries 98
Mean −0.02832
Std Dev 0.9675
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

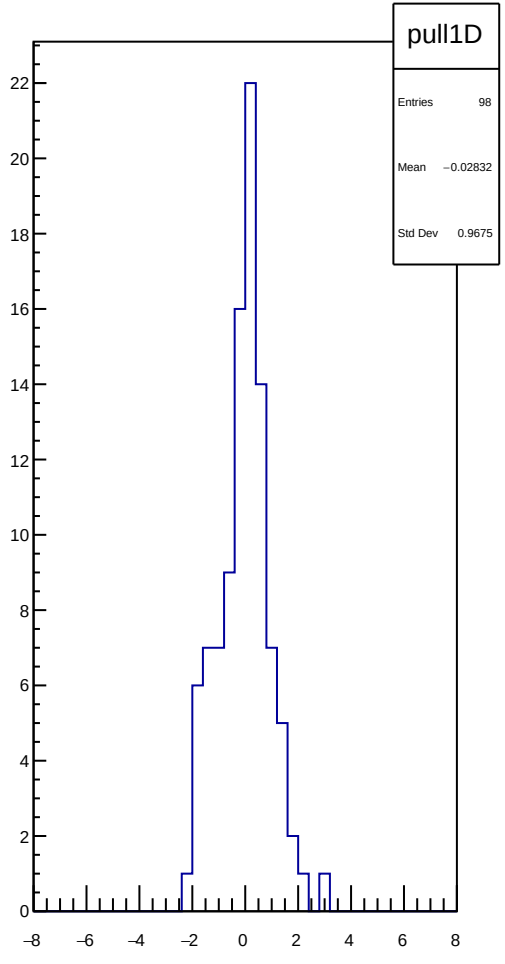

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 4.62e+04 / 97
p0 583.8 ± 0.4239
850
800
750
700
650
600
550
500
450

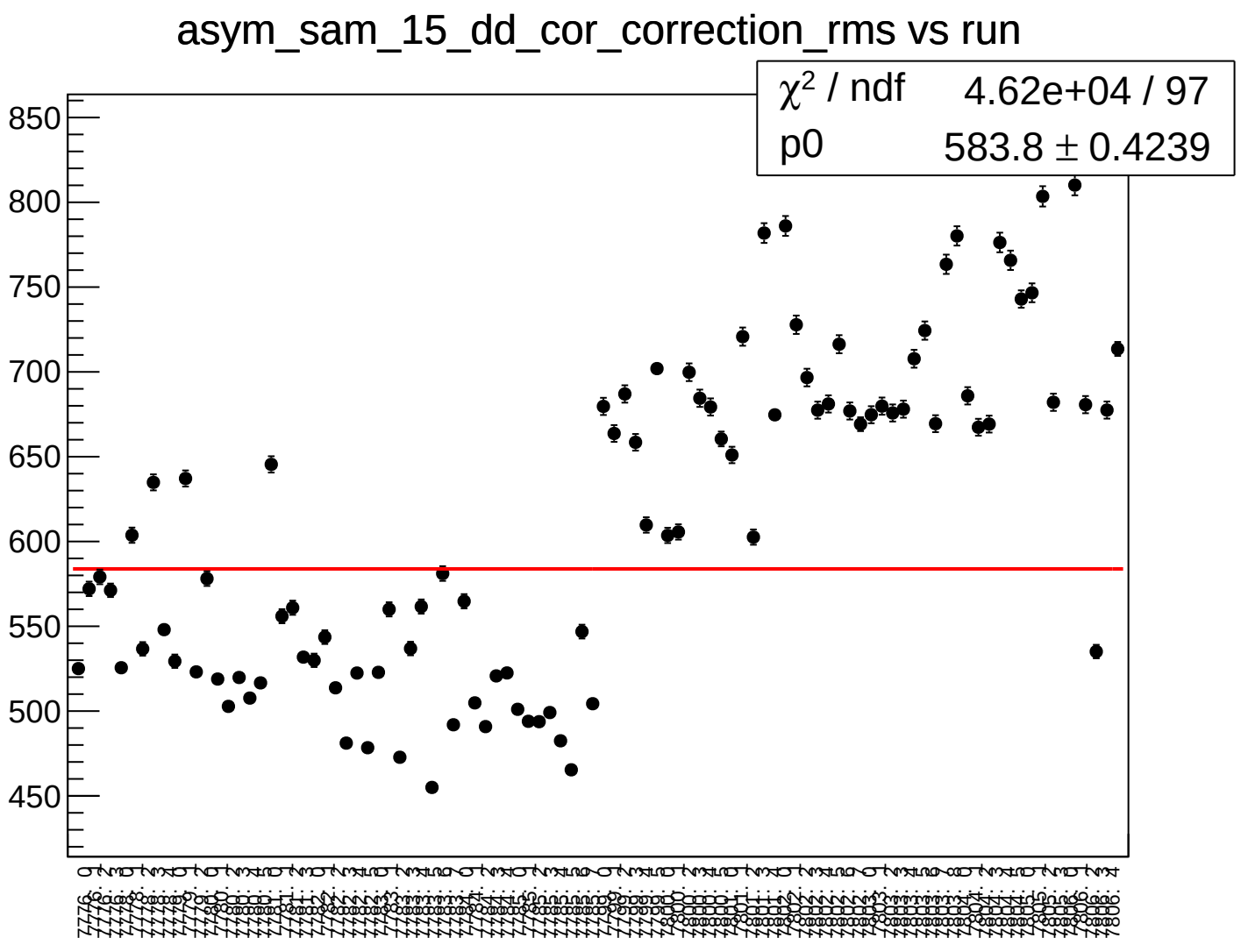

cor_asym_sam_15_dd_mean vs run
χ² / ndf 102.1 / 97
p0 −119.7 ± 95.88
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean −39.24
Std Dev 0
2
1
0
−1
−2

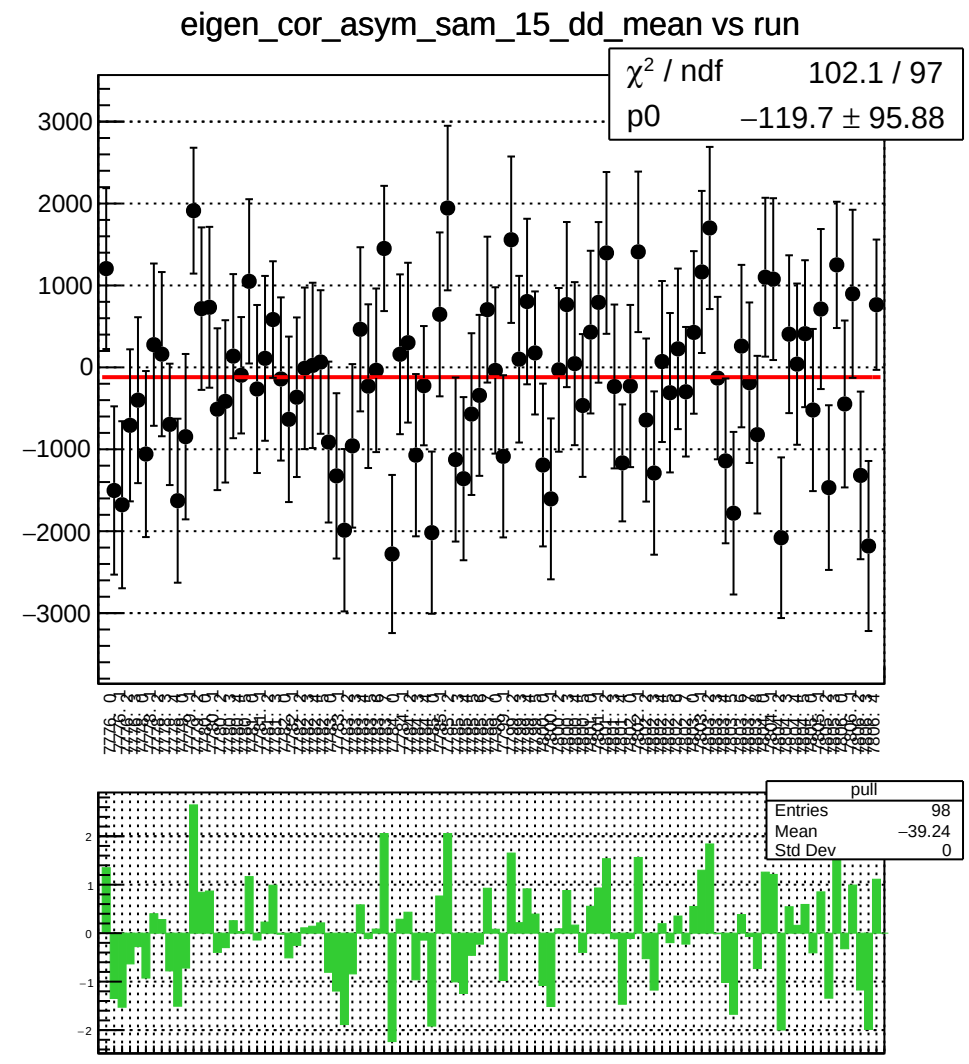

pull1D
Entries 98
Mean −0.02084
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

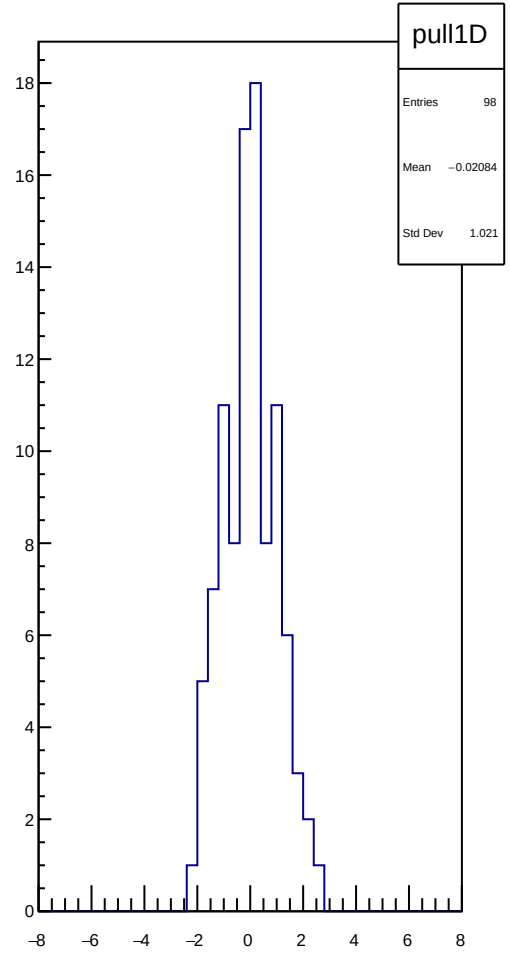

cor_asym_sam_15_dd_rms vs run
χ² / ndf 440.9 / 97
p0 94.48 ± 0.06779
100
98
96
94
92
90

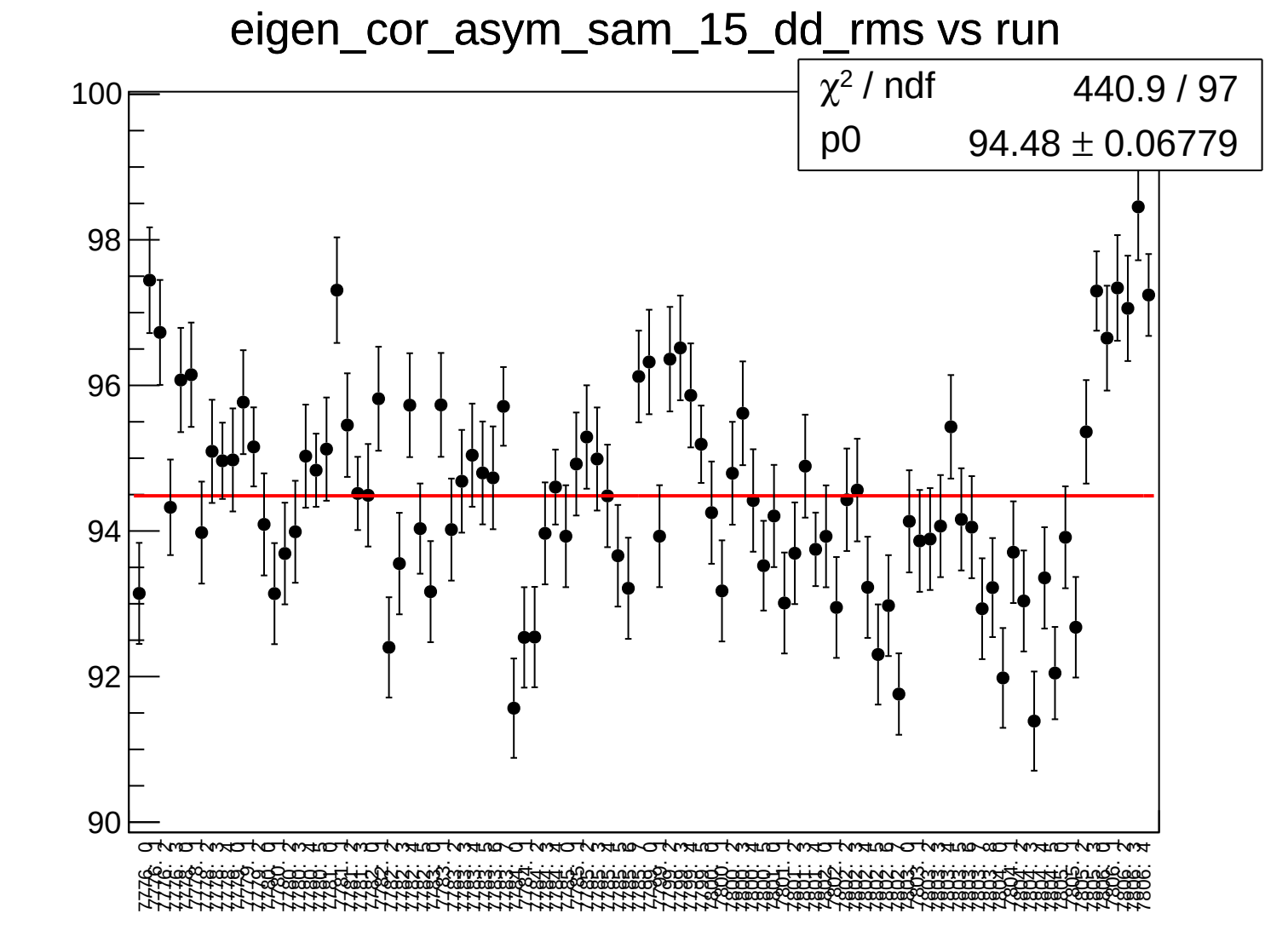

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 91.81 / 97
p0 134.4 ± 599.5
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 136.1
Std Dev 0
3
2
1
0
−1
−2

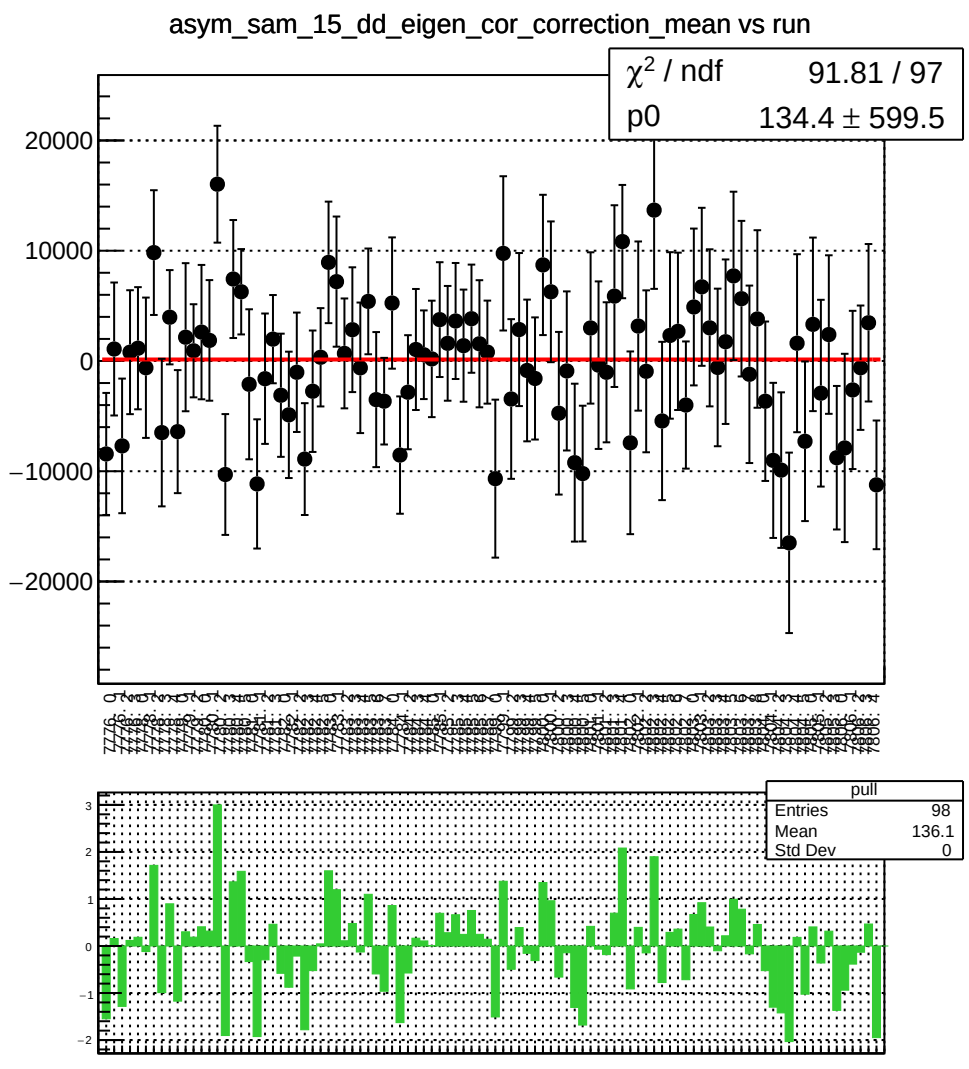

pull1D
Entries 98
Mean −0.02832
Std Dev 0.9675
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

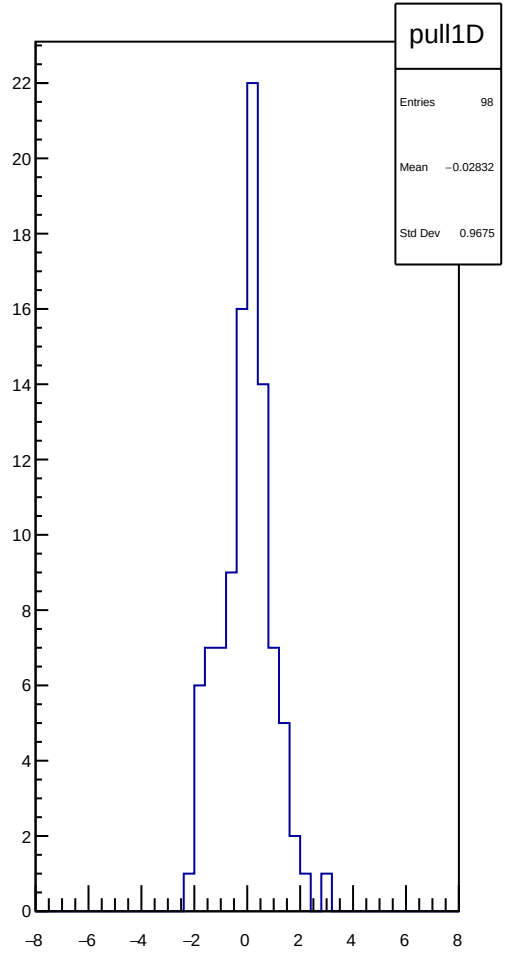

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 4.62e+04 / 97
p0 583.8 ± 0.4239
850
800
750
700
650
600
550
500
450

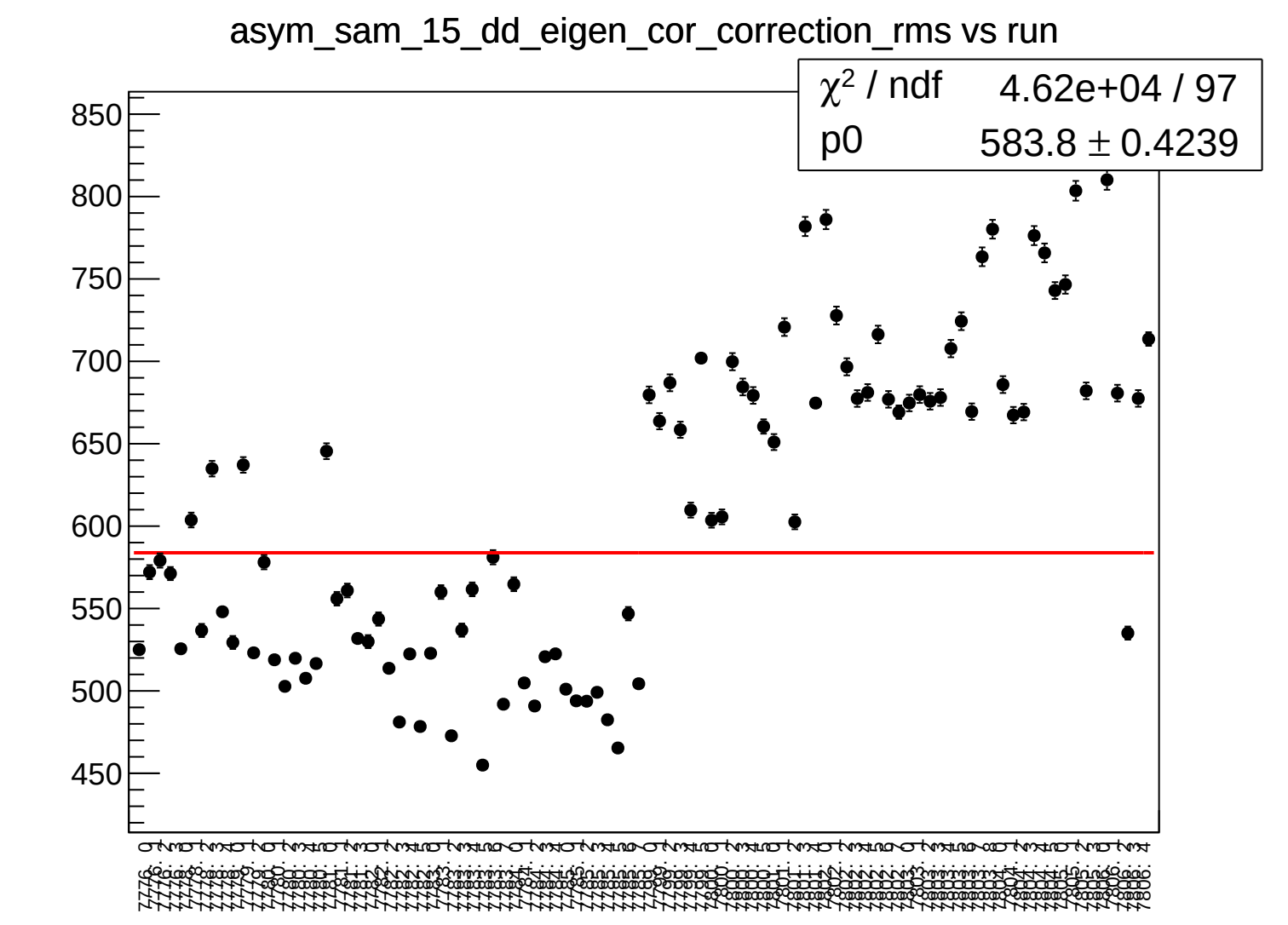

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 102.1 / 97
p0 −119.7 ± 95.88
pull
Entries 98
Mean −39.24
Std Dev 0

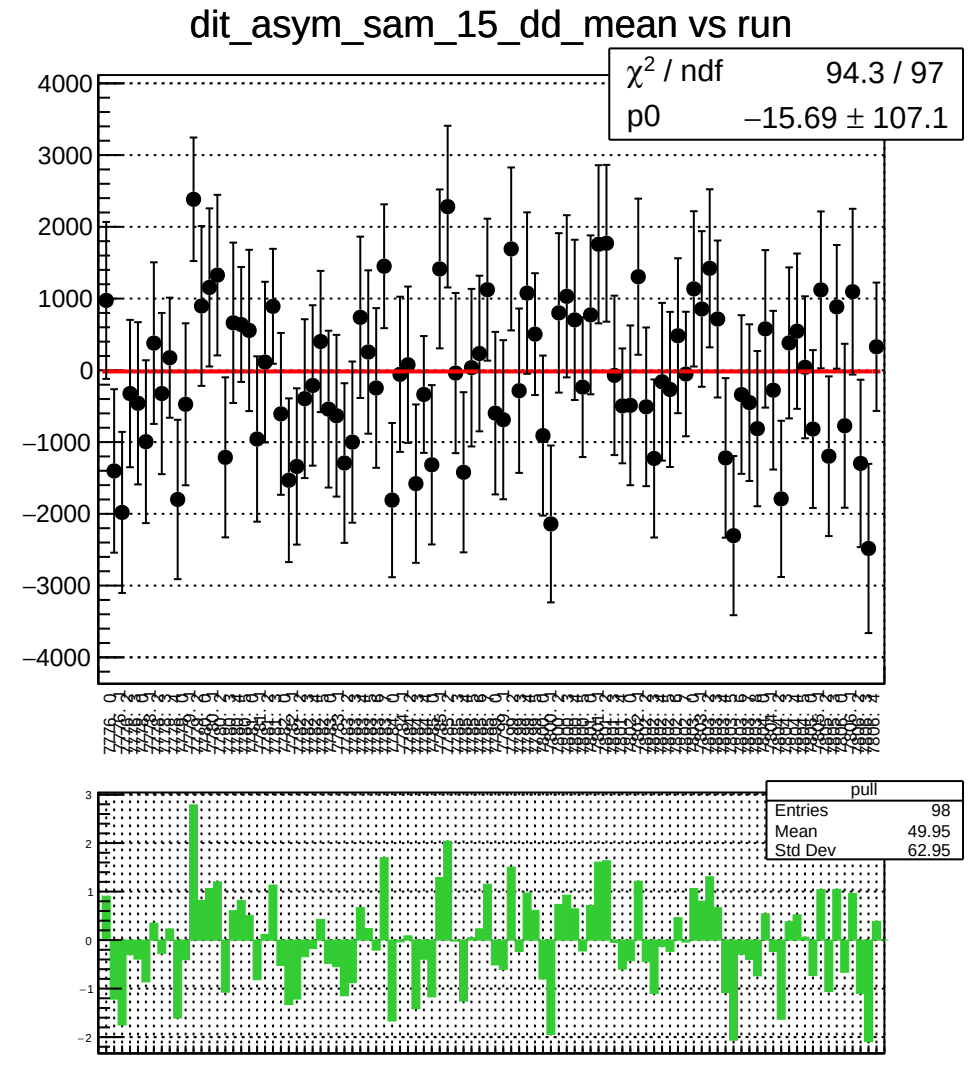

pull1D
Entries 98
Mean −0.02084
Std Dev 1.021

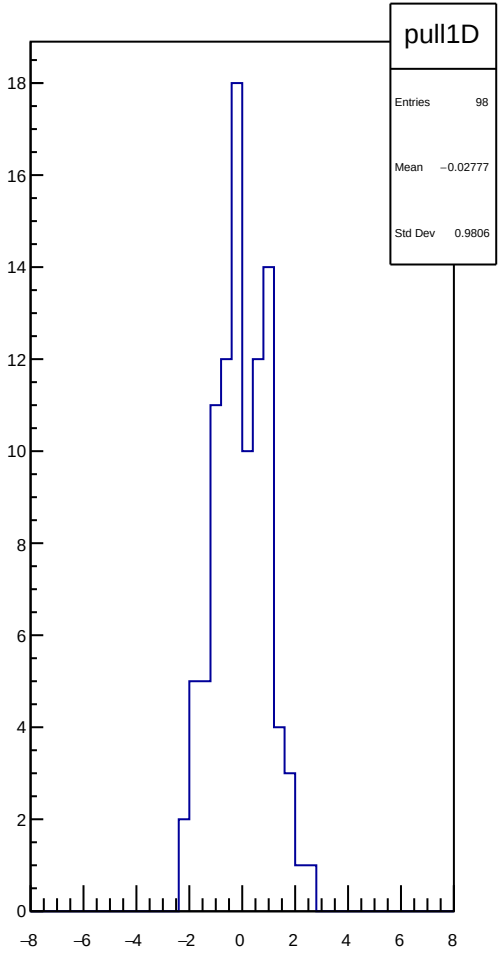

eigen_cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 440.9 / 97
p0 94.48 ± 0.06779
100
98
96
94
92
90

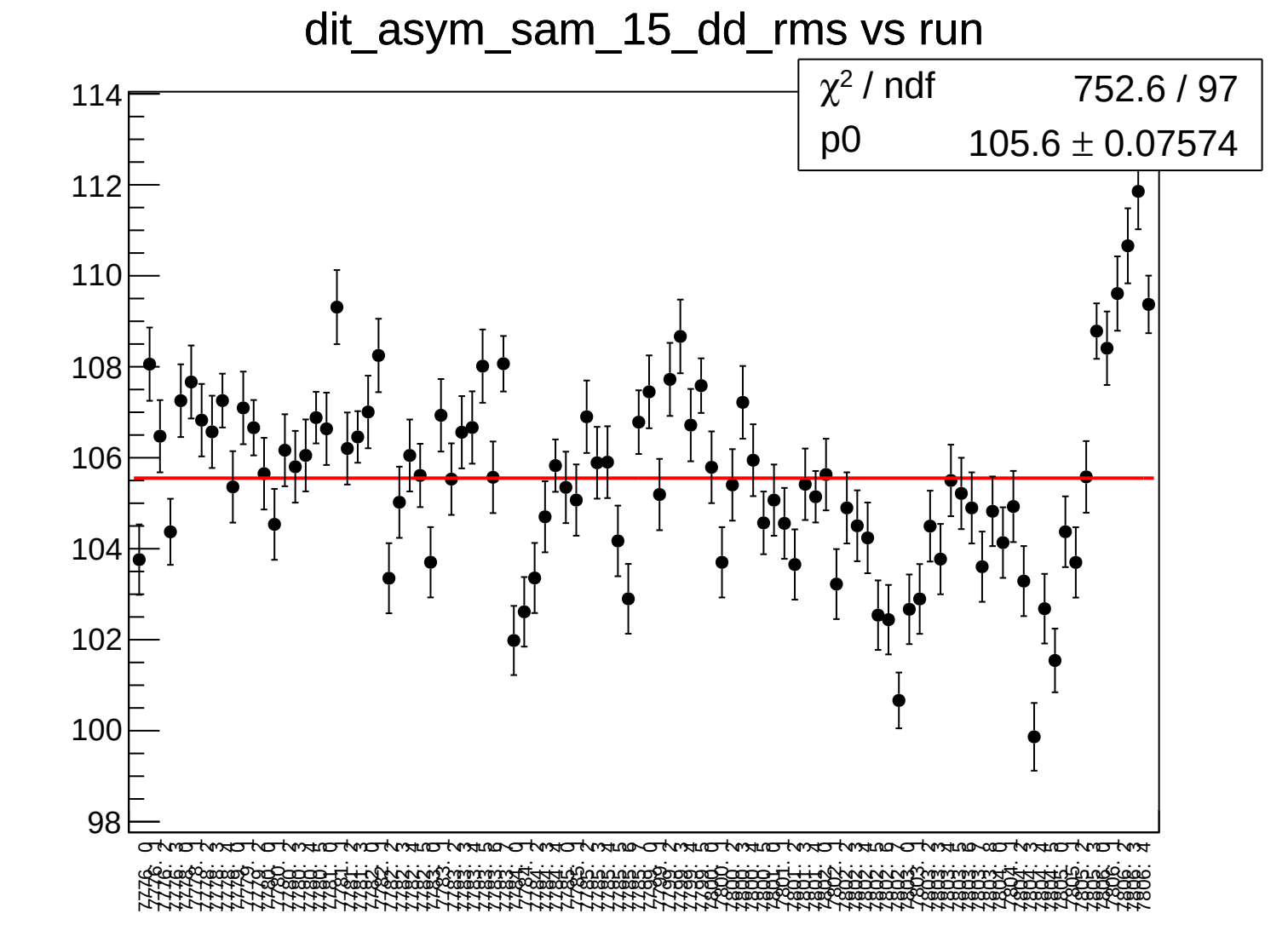

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.81 / 97
p0 134.4 ± 599.5
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 136.1
Std Dev 0
3
2
1
0
−1
−2

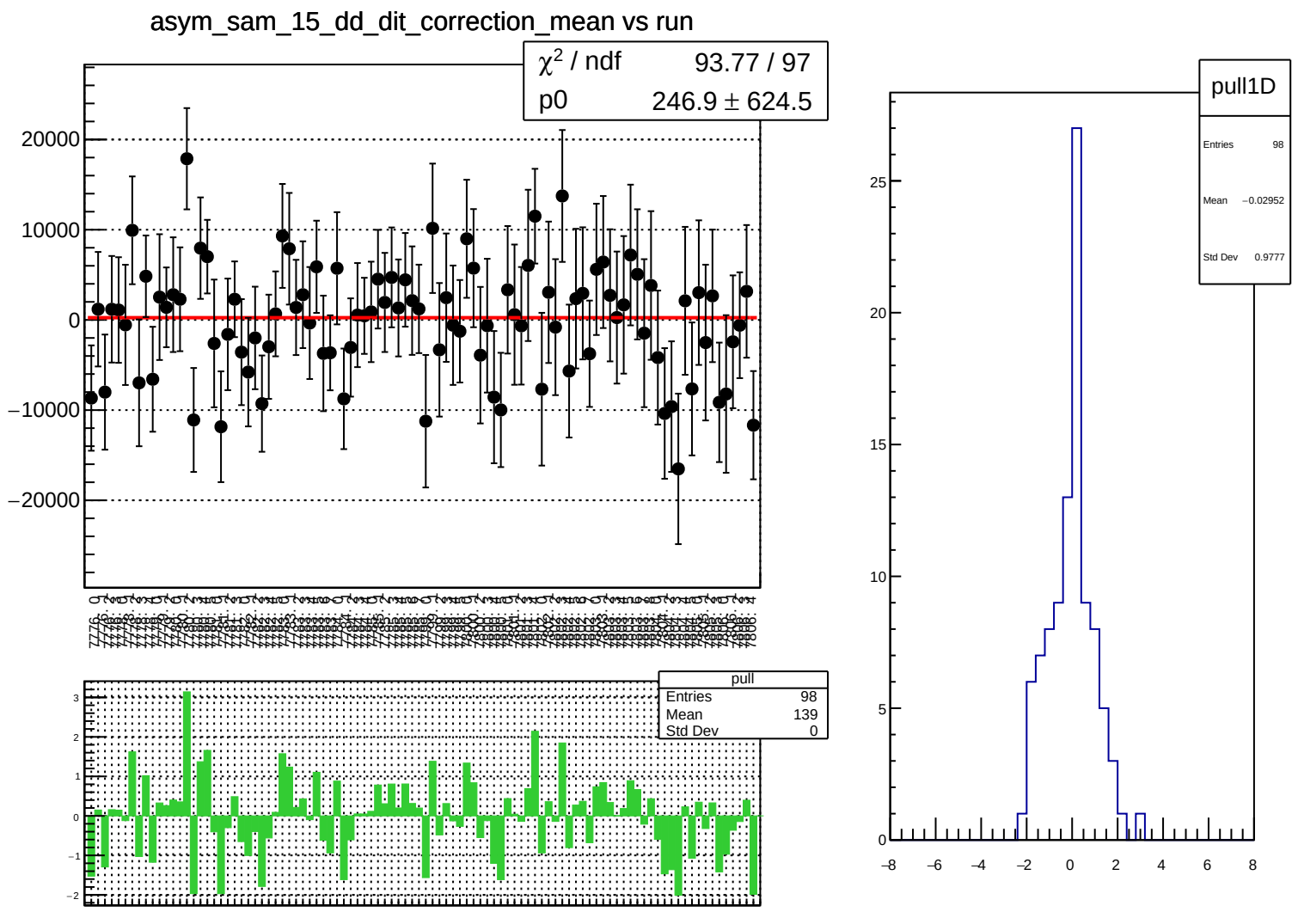

pull1D
Entries 98
Mean −0.02832
Std Dev 0.9675
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

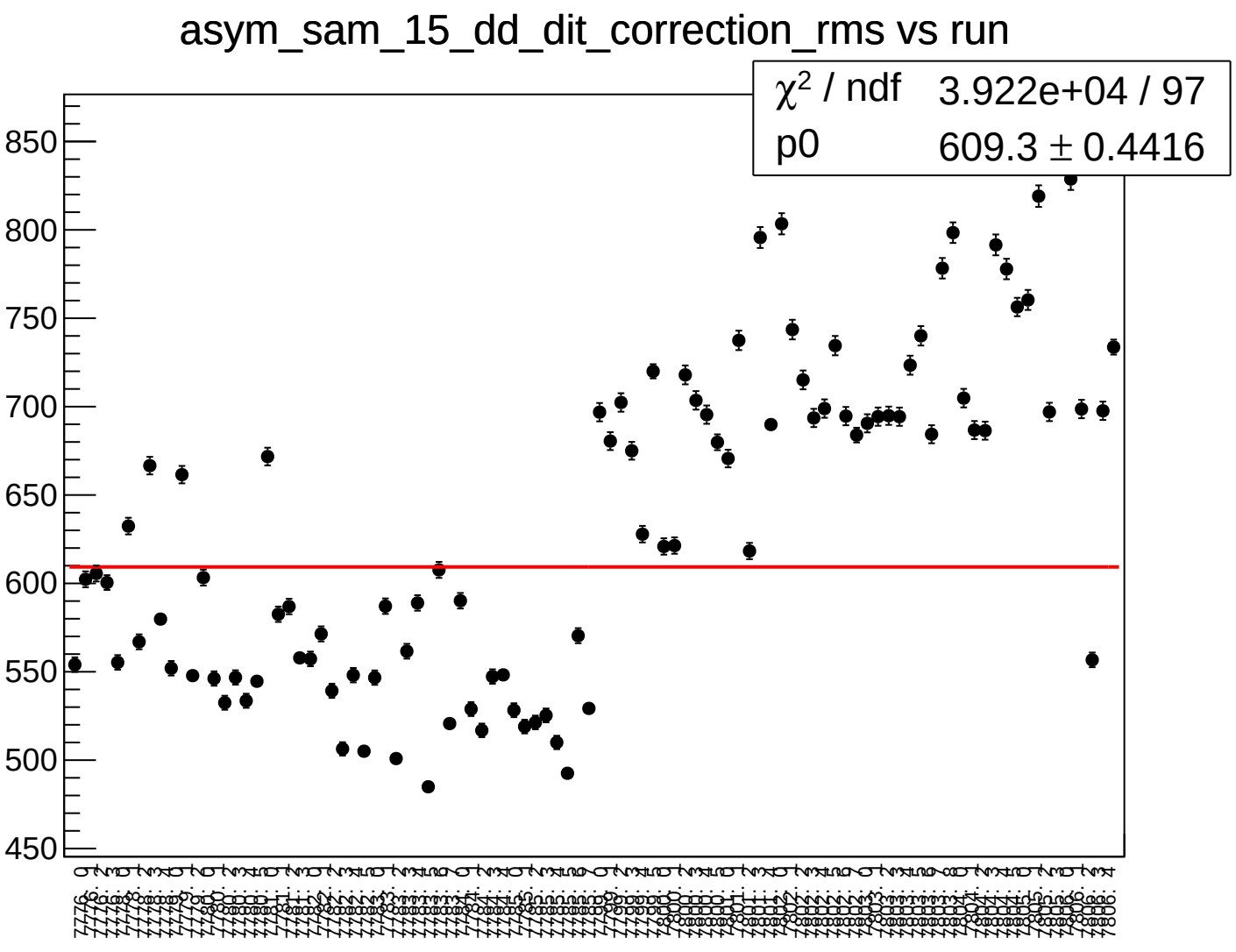

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.62e+04 / 97
p0 583.8 ± 0.4239
850
800
750
700
650
600
550
500
450

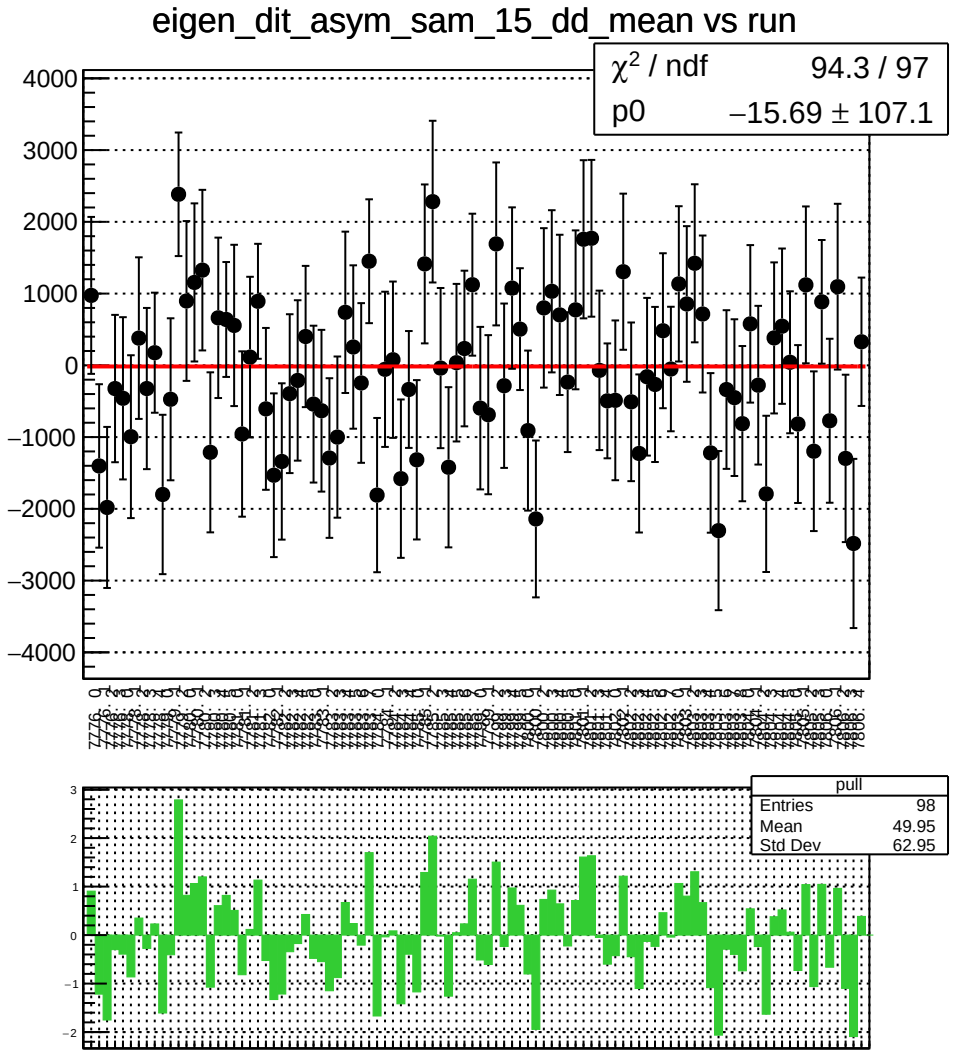

dit_asym_sam_15_dd_mean vs run
χ² / ndf 94.3 / 97
p0 −15.69 ± 107.1
pull
Entries 98
Mean 49.95
Std Dev 62.95

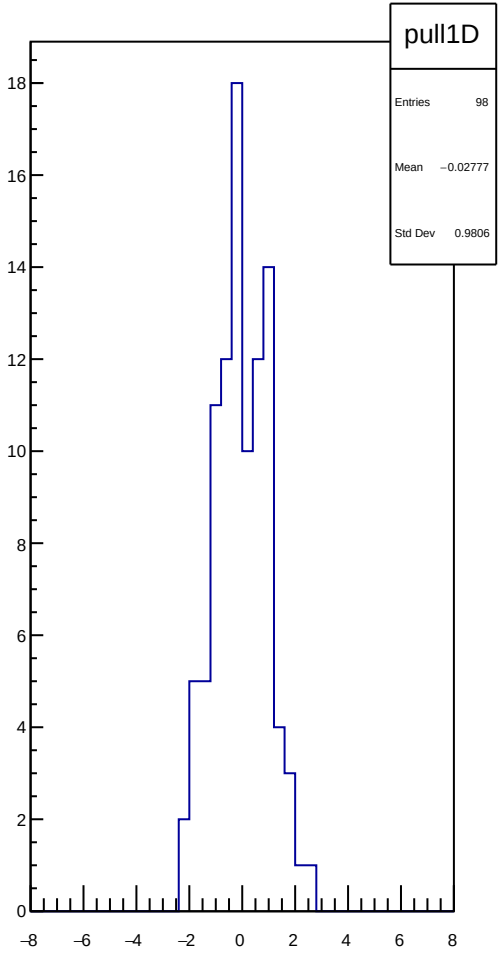

pull1D
Entries 98
Mean −0.02777
Std Dev 0.9806

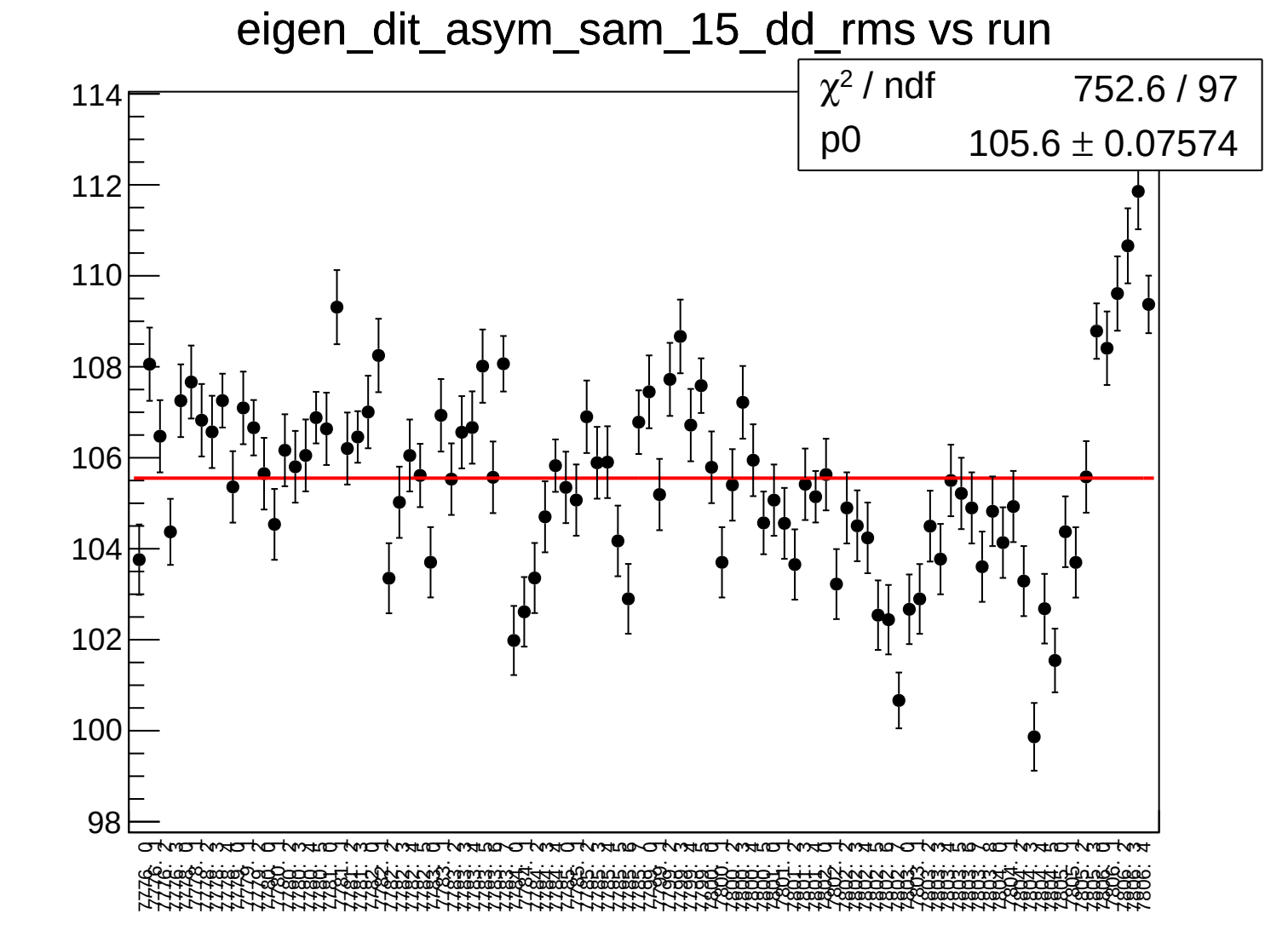

dit_asym_sam_15_dd_rms vs run
χ² / ndf 752.6 / 97
p0 105.6 ± 0.07574
114
112
110
108
106
104
102
100
98

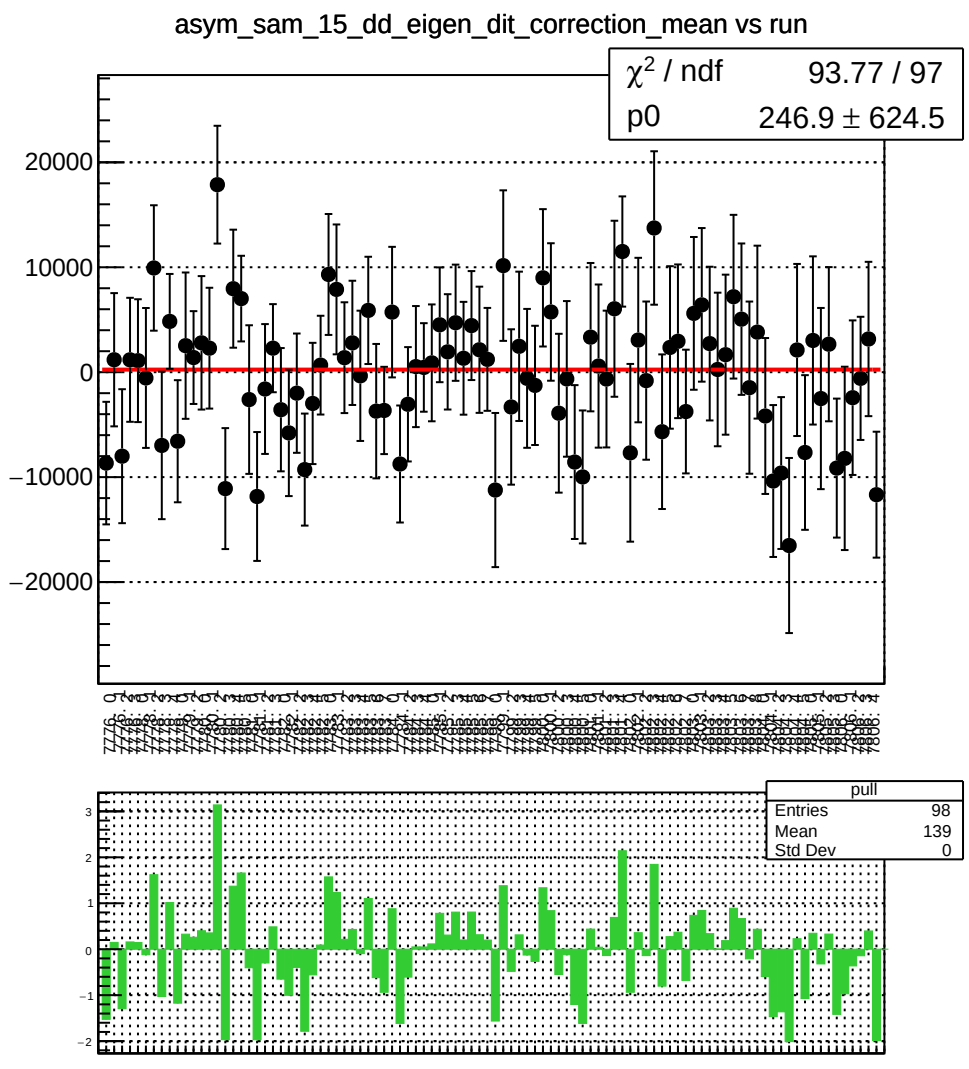

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 93.77 / 97
p0 246.9 ± 624.5
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 139
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.02952
Std Dev 0.9777
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

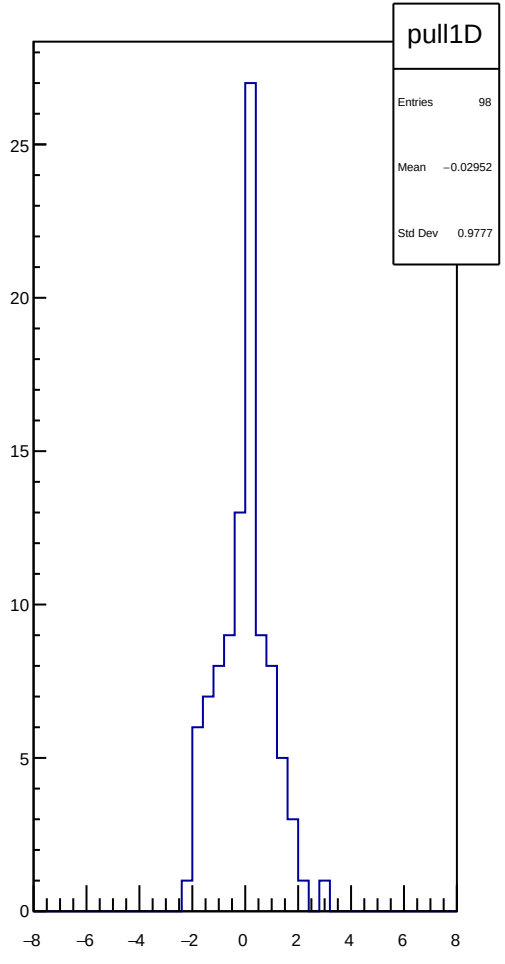

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 3.922e+04 / 97
p0 609.3 ± 0.4416
850
800
750
700
650
600
550
500
450

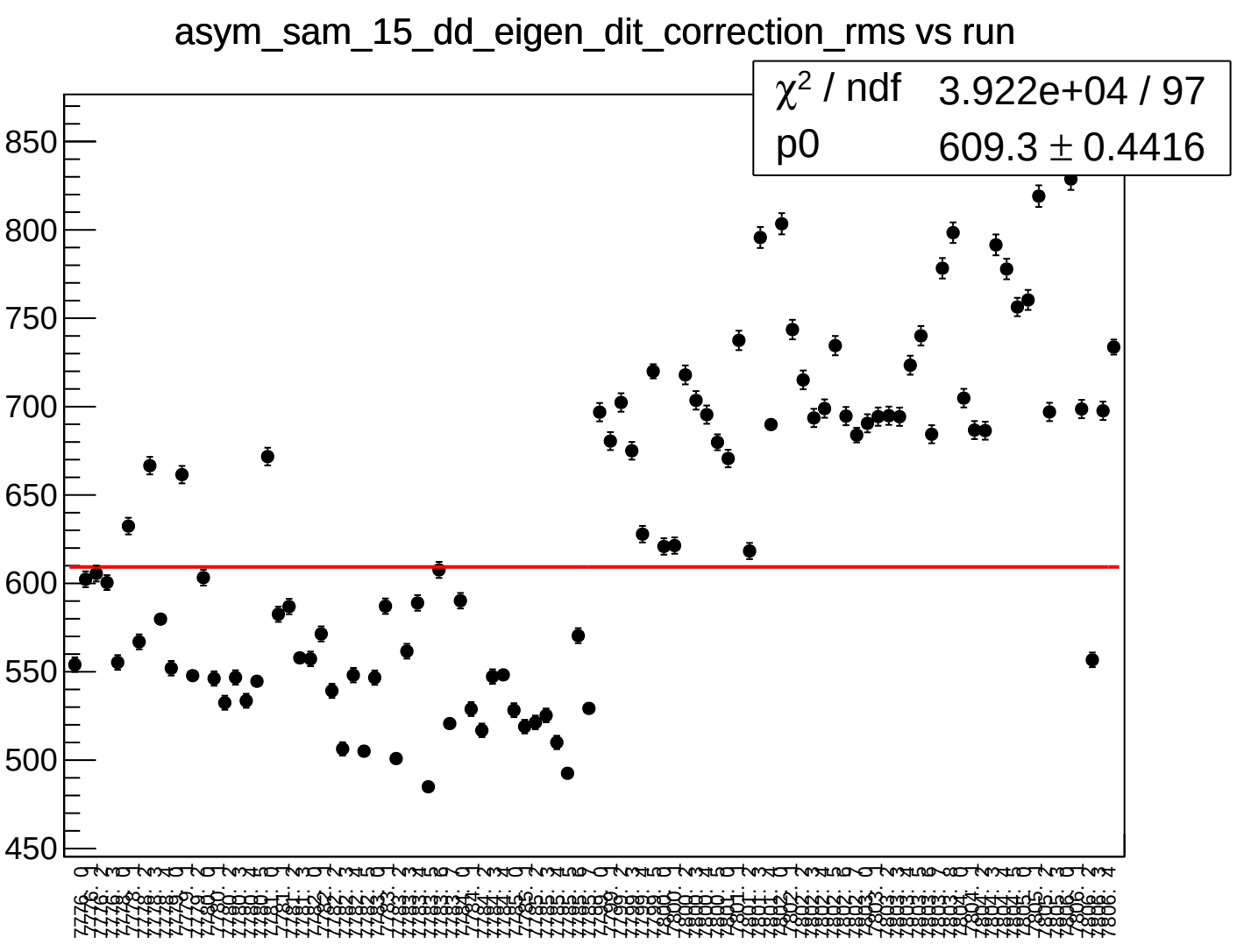

eigen_dit_asym_sam_15_dd_mean vs run
χ^2 / ndf 94.3 / 97
p0 −15.69 ± 107.1
pull
Entries 98
Mean 49.95
Std Dev 62.95

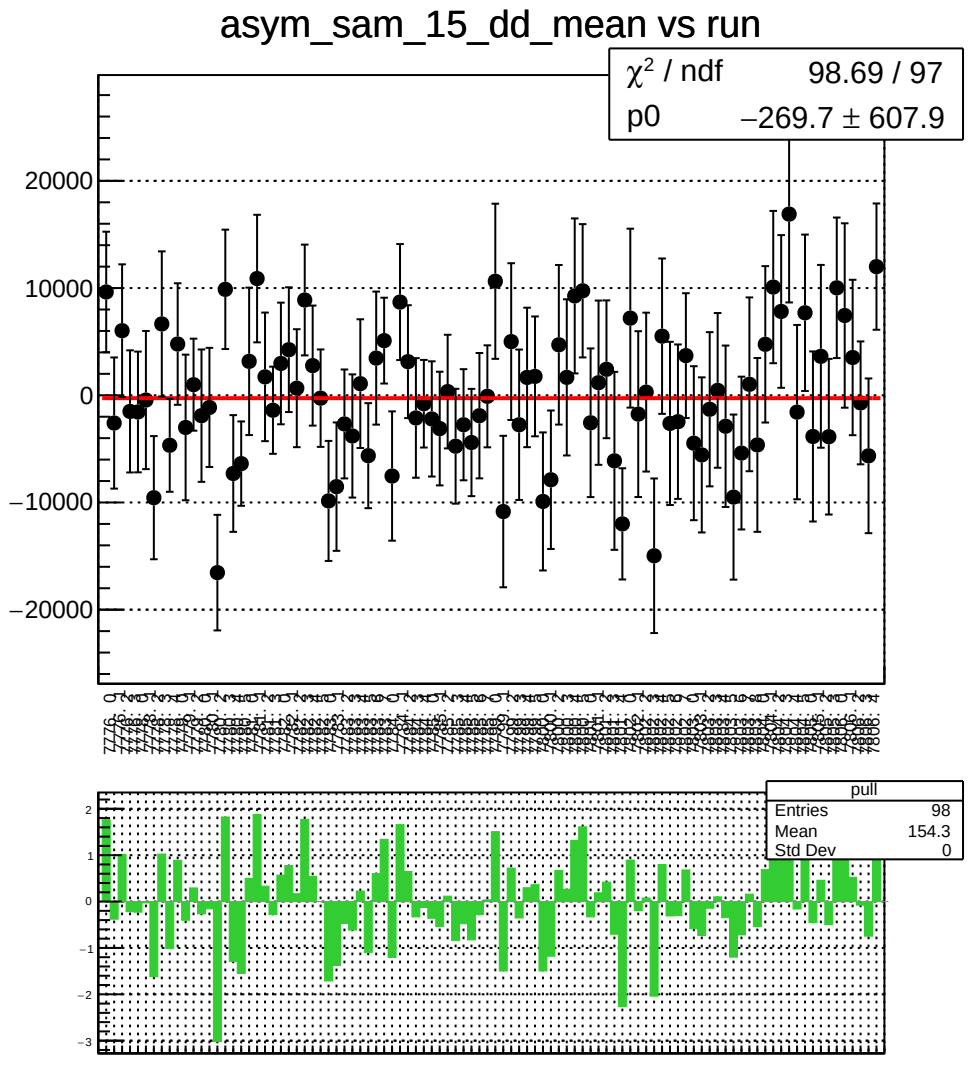

pull1D
Entries 98
Mean −0.02777
Std Dev 0.9806

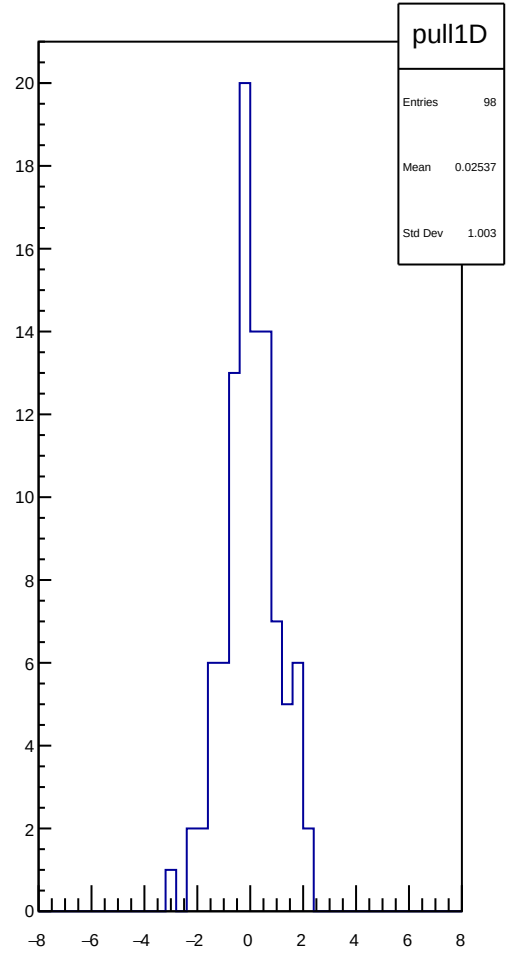

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 752.6 / 97
p0 105.6 ± 0.07574
114
112
110
108
106
104
102
100
98

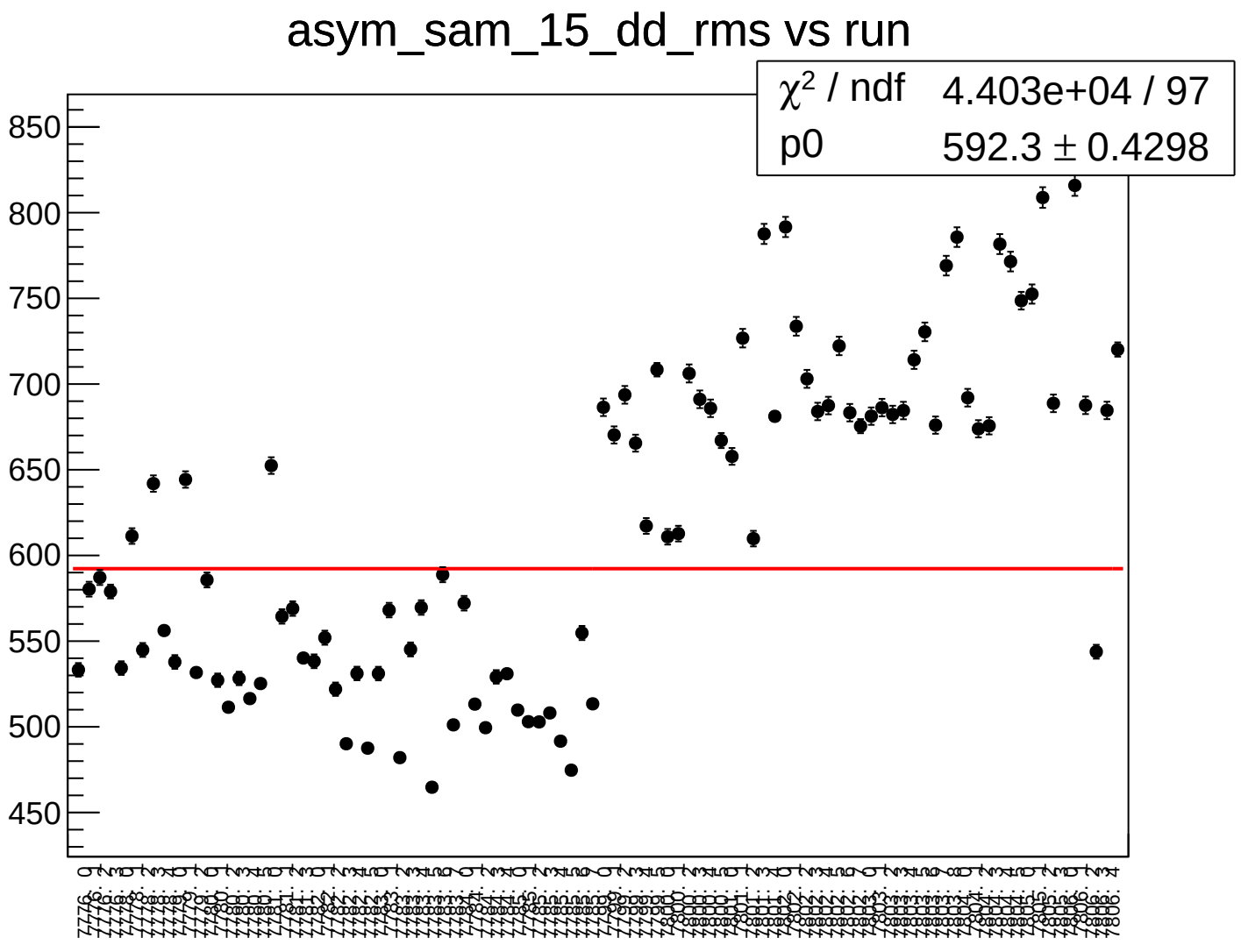

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.77 / 97
p0 246.9 ± 624.5
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 139
Std Dev 0
3
2
1
0
−1
−2

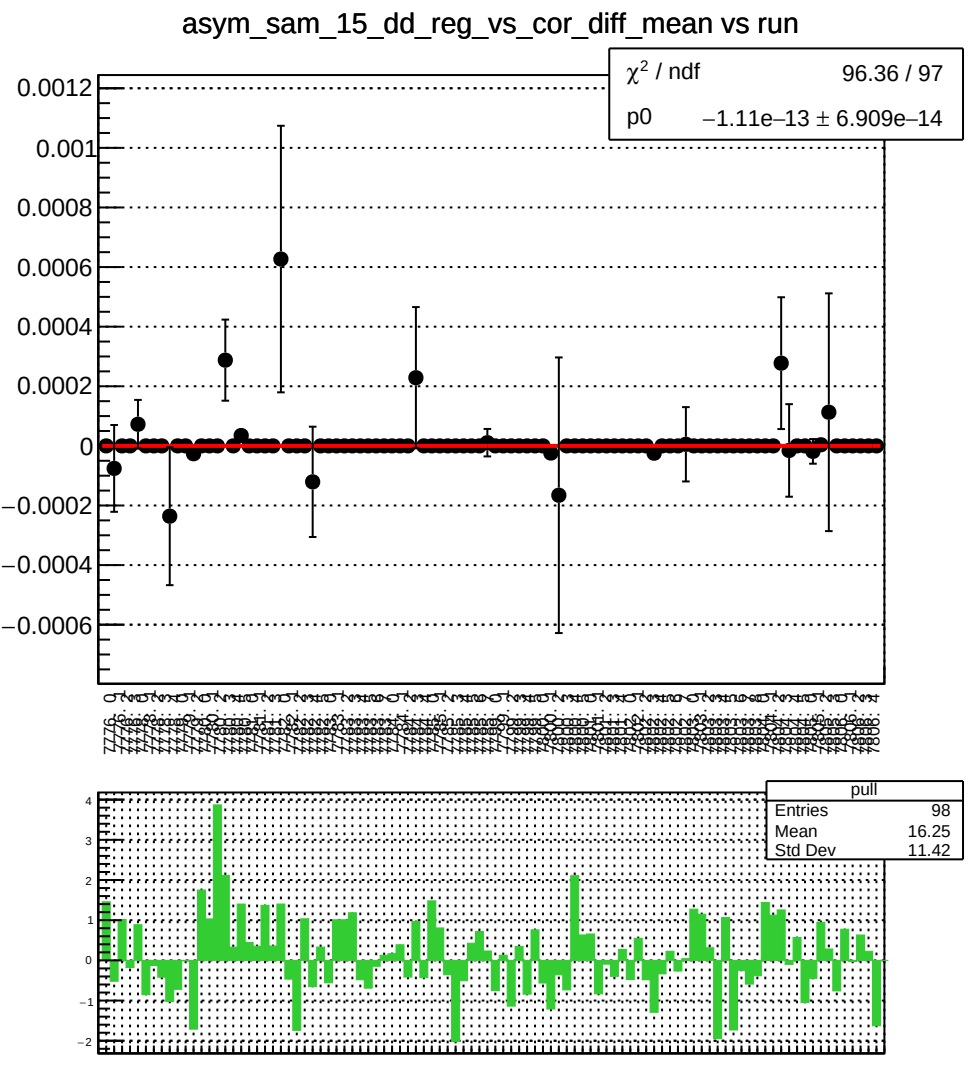

pull1D
Entries 98
Mean −0.02952
Std Dev 0.9777
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

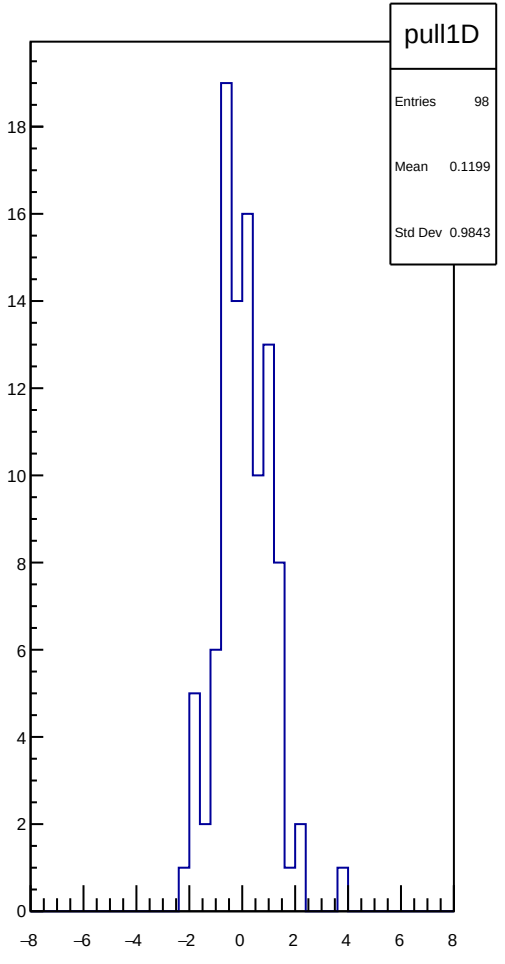

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.922e+04 / 97
p0 609.3 ± 0.4416
850
800
750
700
650
600
550
500
450

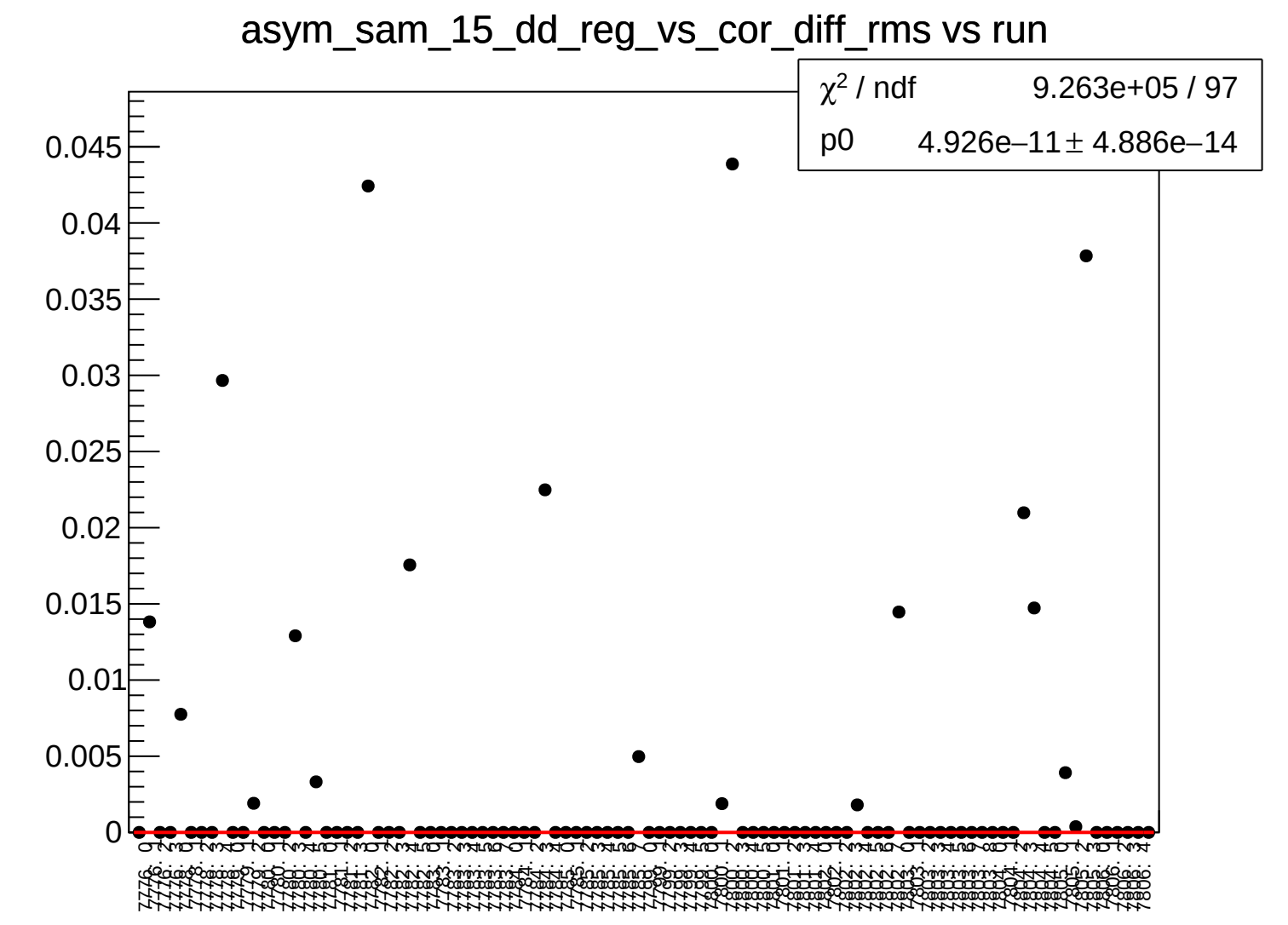

asym_sam_15_dd_mean vs run
χ² / ndf 98.69 / 97
p0 −269.7 ± 607.9
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 154.3
Std Dev 0
2
1
0
−1
−2
−3

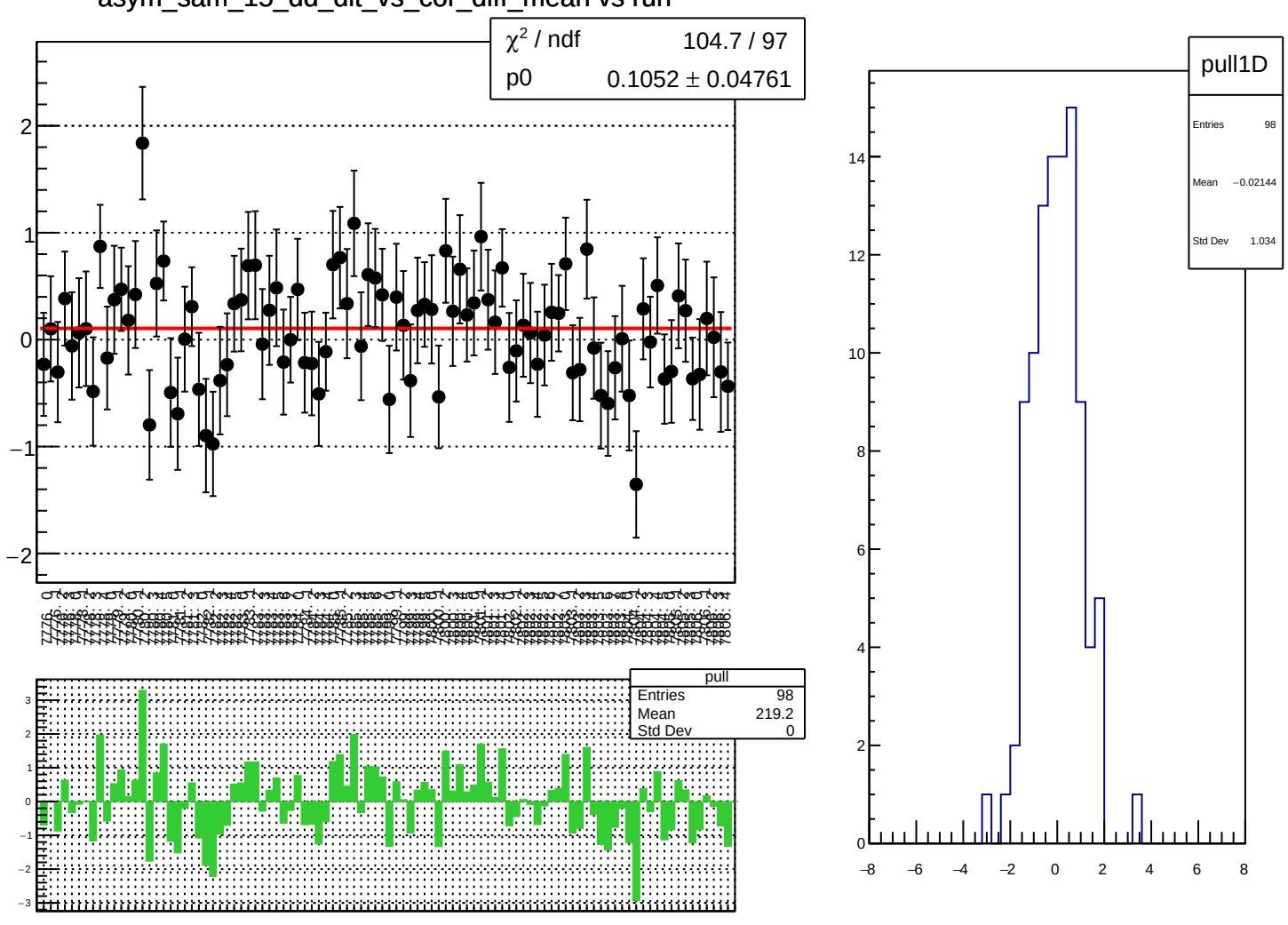

pull1D
Entries 98
Mean 0.02537
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

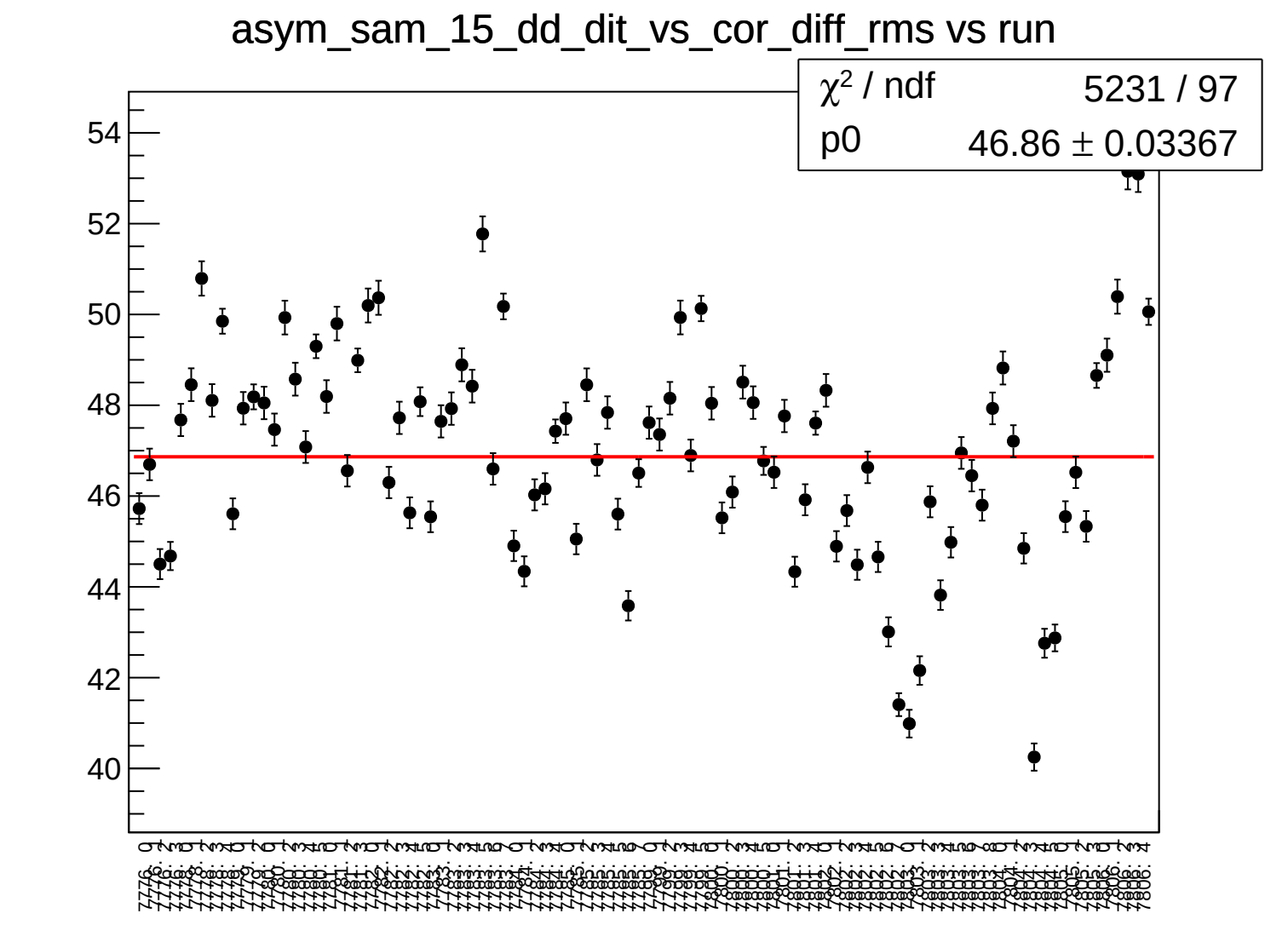

asym_sam_15_dd_rms vs run
χ^2 / ndf 4.403e+04 / 97
p0 592.3 ± 0.4298
850
800
750
700
650
600
550
500
450

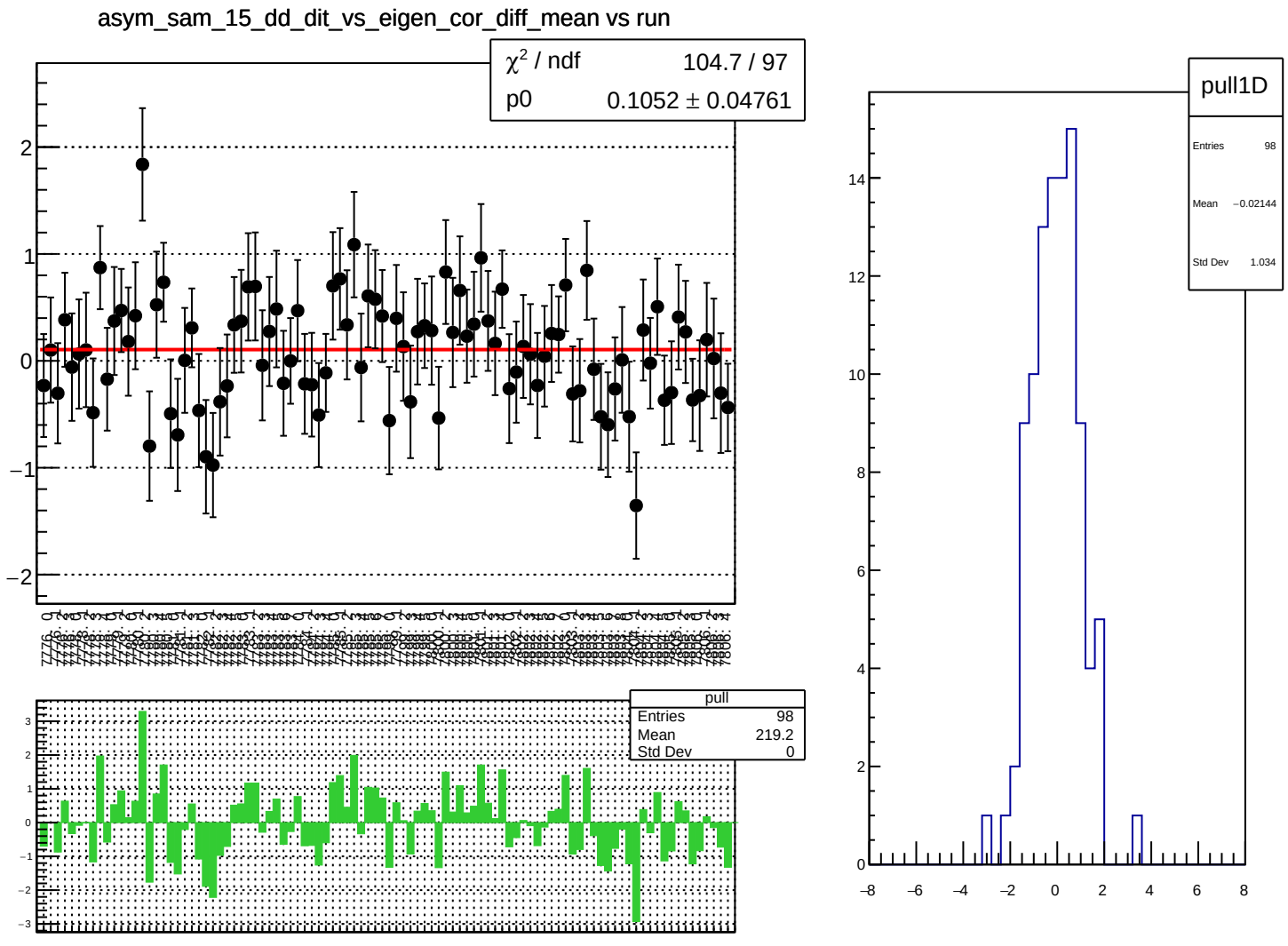

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.36 / 97
p0 −1.11e−13 ± 6.909e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 98
Mean 16.25
Std Dev 11.42
4
3
2
1
0
−1
−2

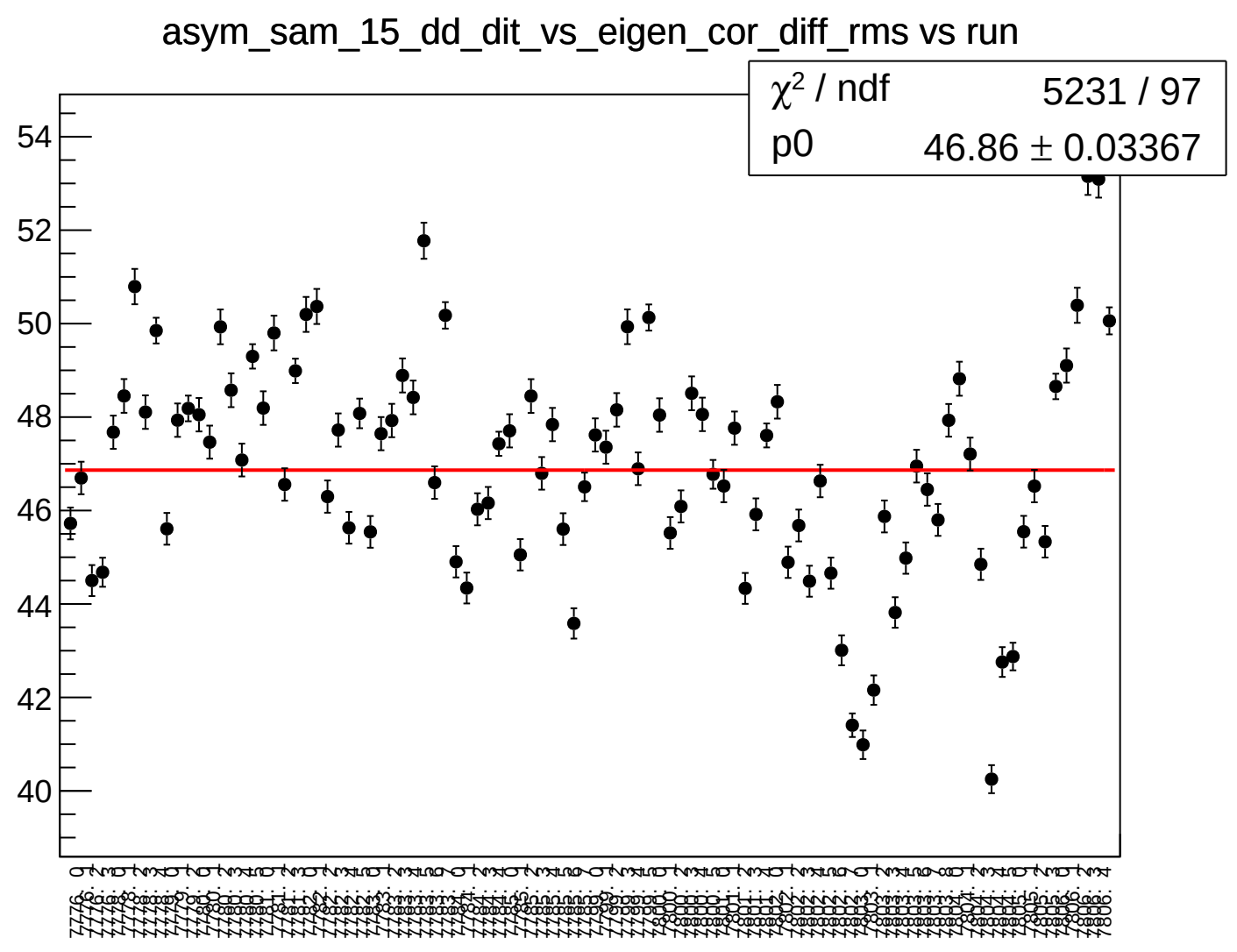

pull1D
Entries 98
Mean 0.1199
Std Dev 0.9843
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

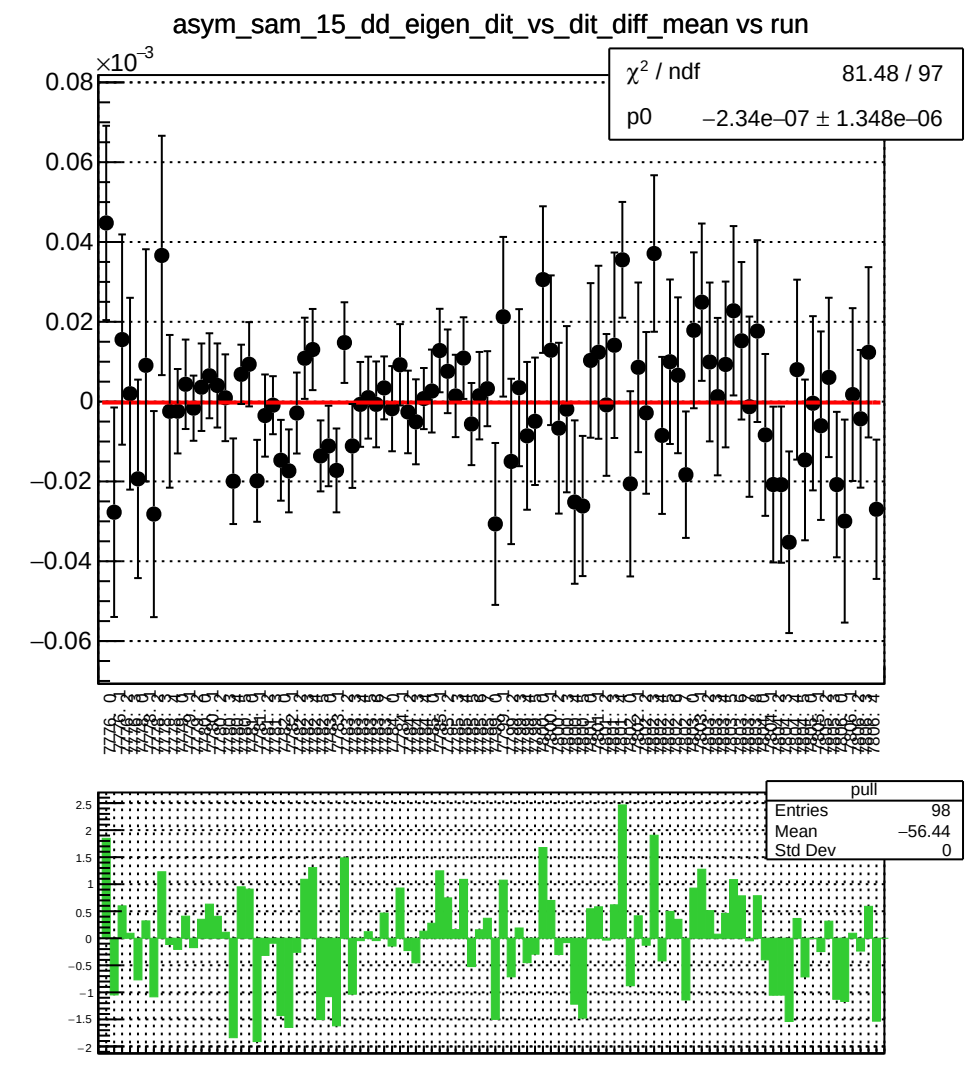

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.263e+05 / 97
p0 4.926e−11 ± 4.886e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

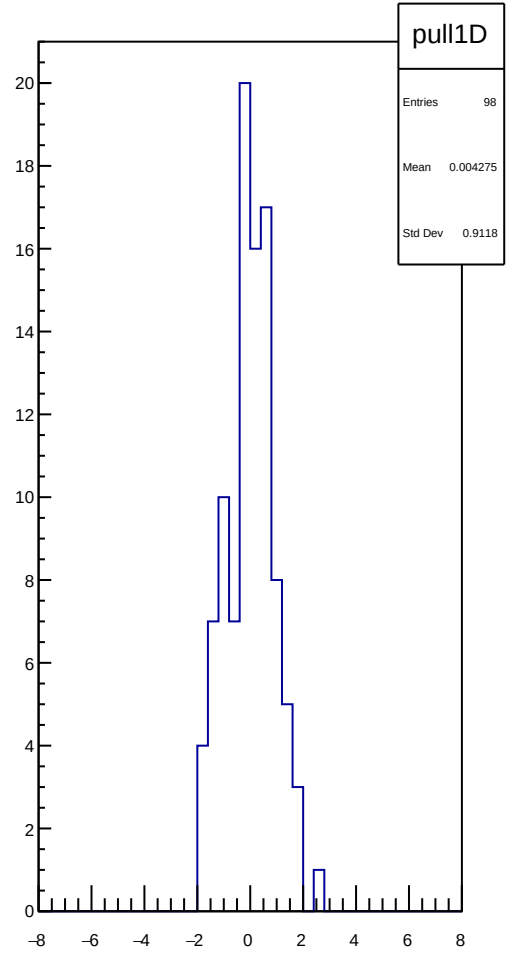

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 97
p0 0.1052 ± 0.04761
pull
Entries 98
Mean 219.2
Std Dev 0
pull1D
Entries 98
Mean −0.02144
Std Dev 1.034

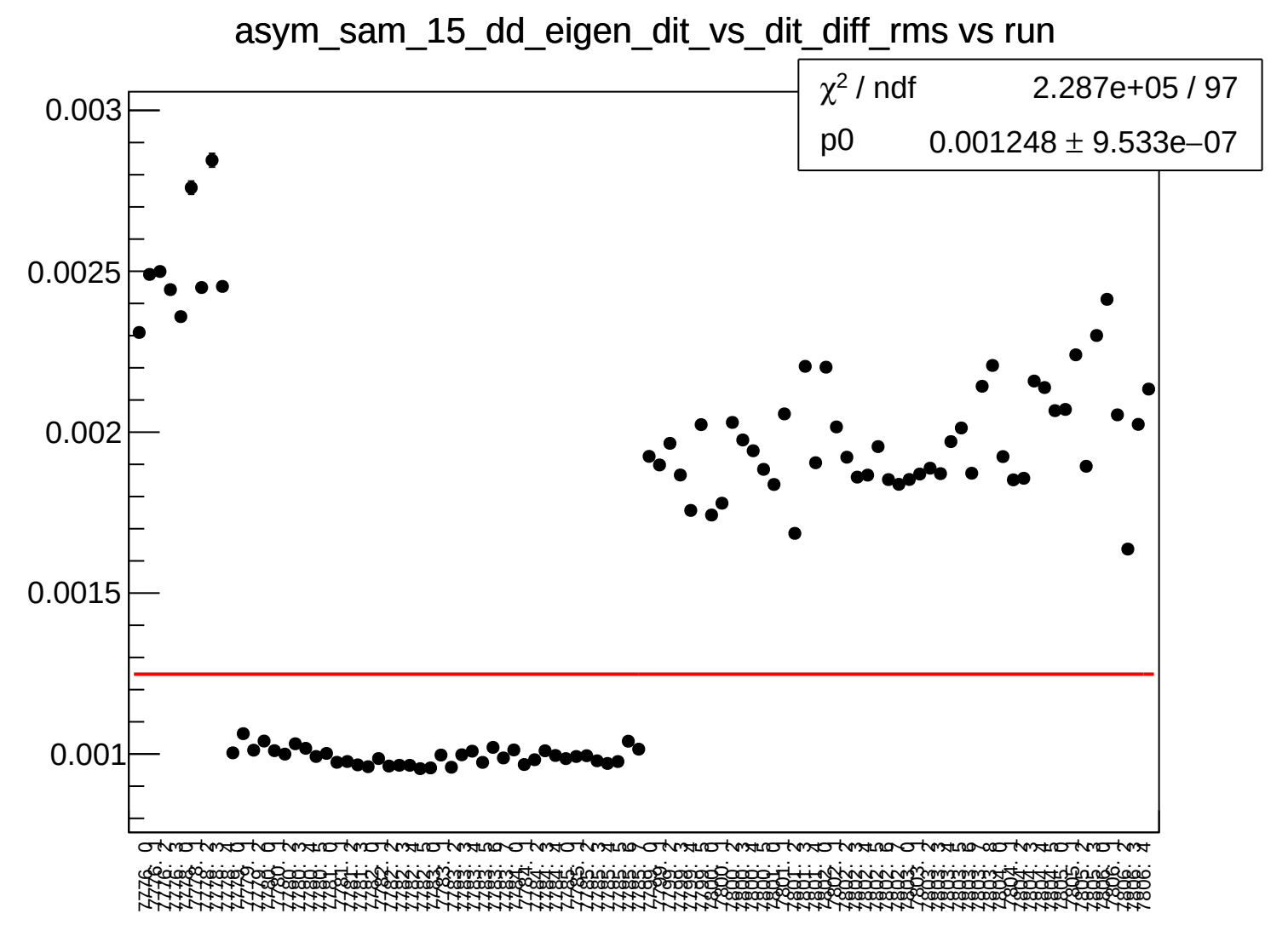

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5231 / 97
p0 46.86 ± 0.03367
54
52
50
48
46
44
42
40

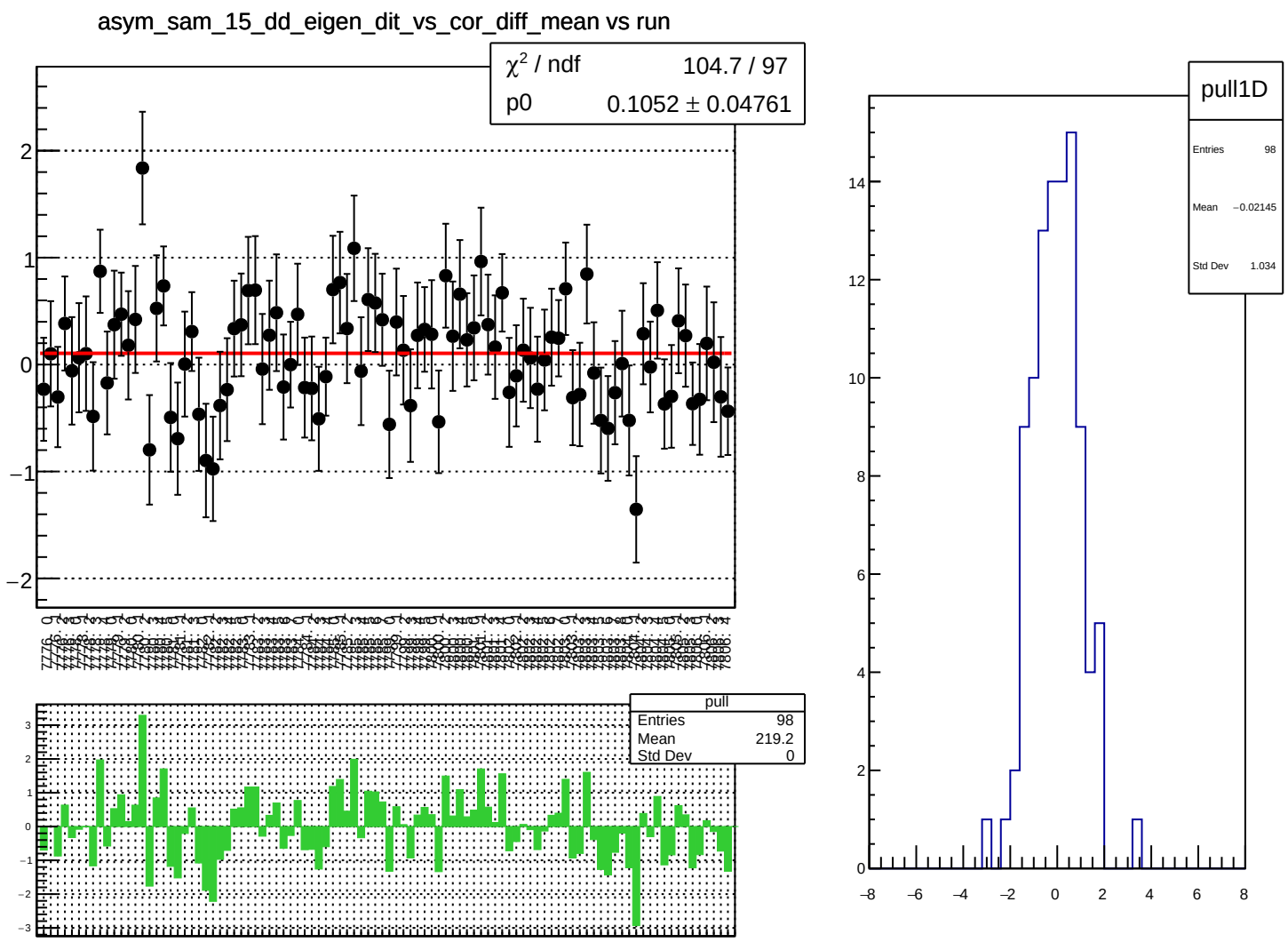

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 97
p0 0.1052 ± 0.04761
pull
Entries 98
Mean 219.2
Std Dev 0
pull1D
Entries 98
Mean −0.02144
Std Dev 1.034

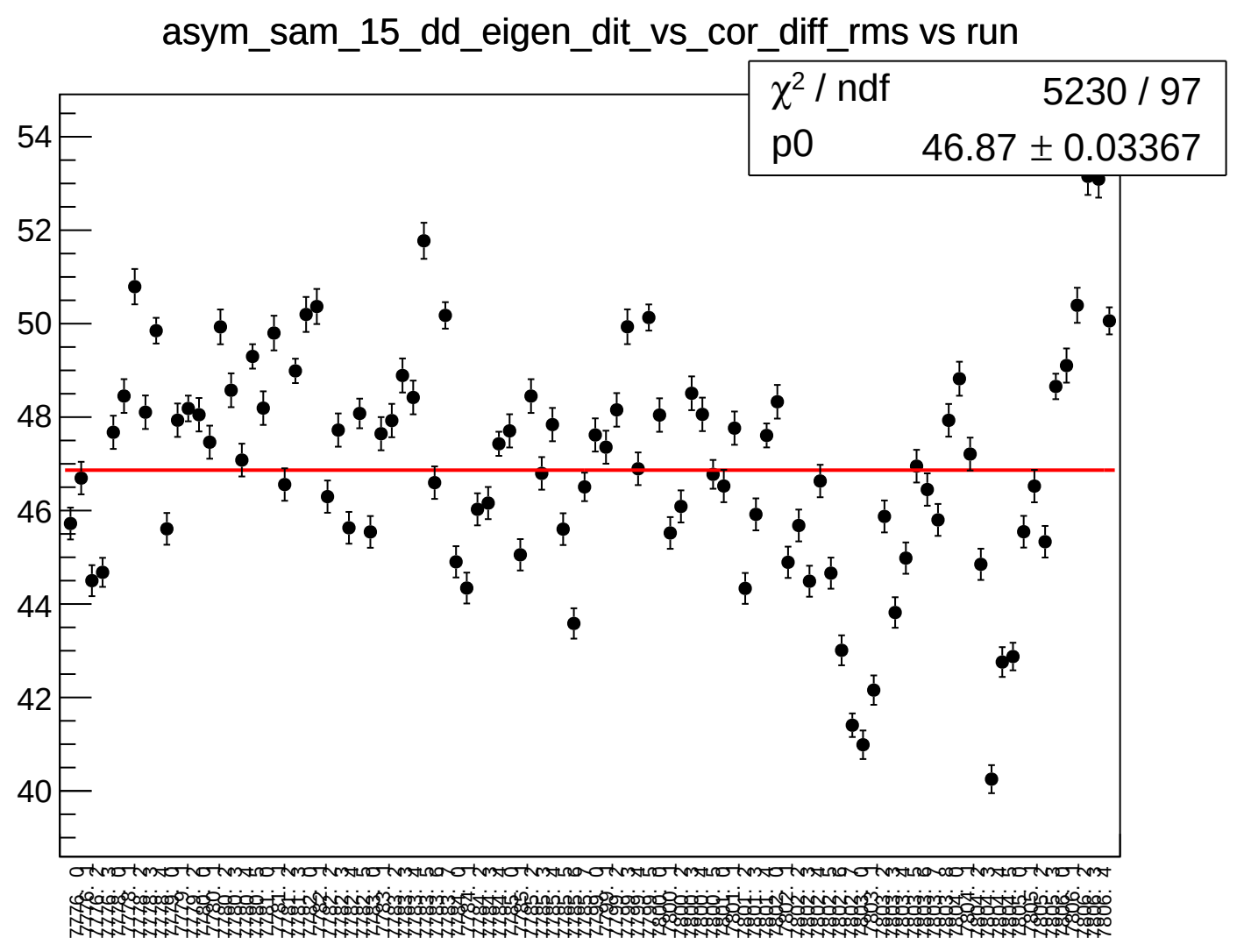

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5231 / 97
p0 46.86 ± 0.03367
54
52
50
48
46
44
42
40

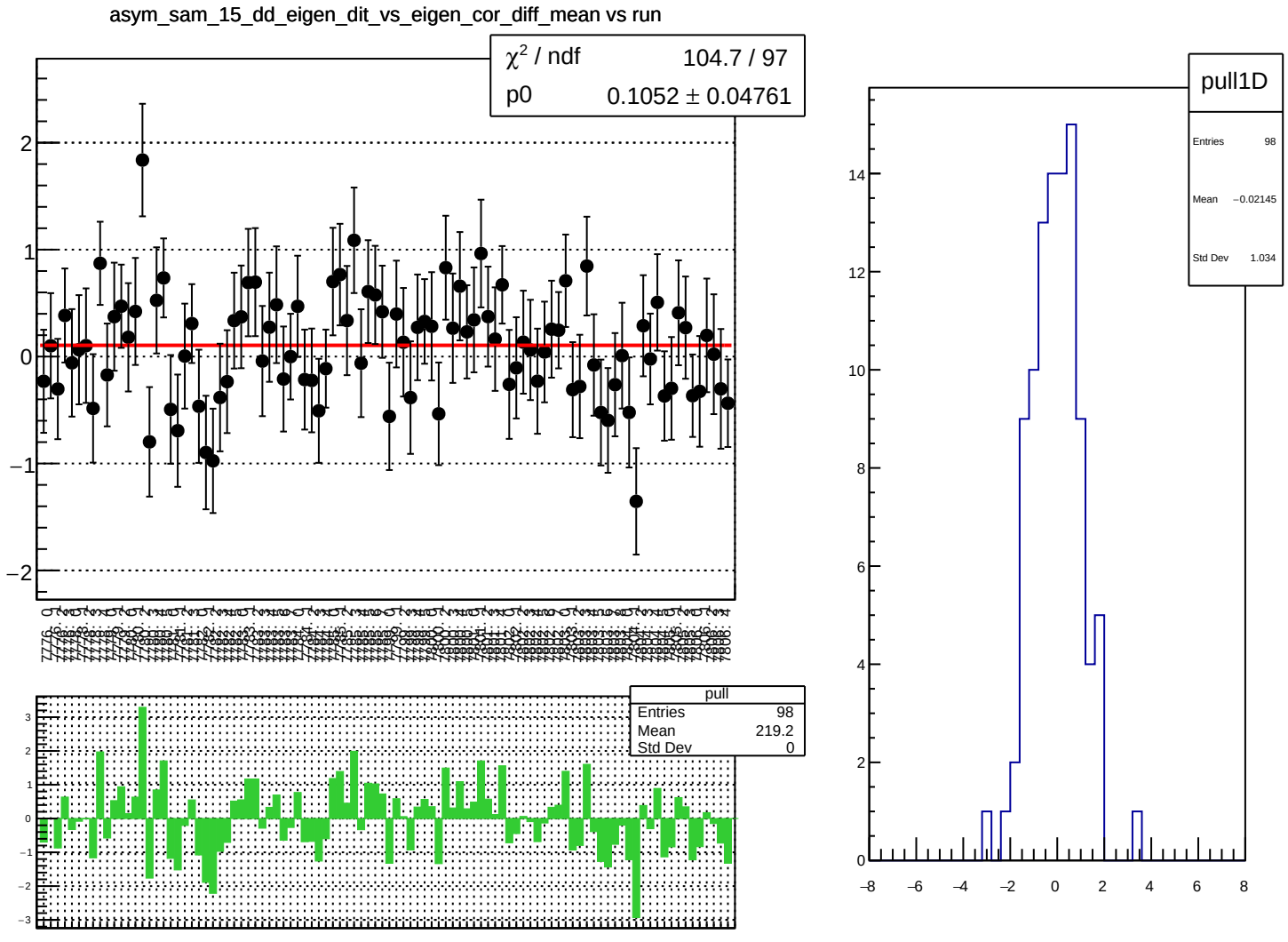

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 81.48 / 97
p0 −2.34e−07 ± 1.348e−06
pull
Entries 98
Mean −56.44
Std Dev 0

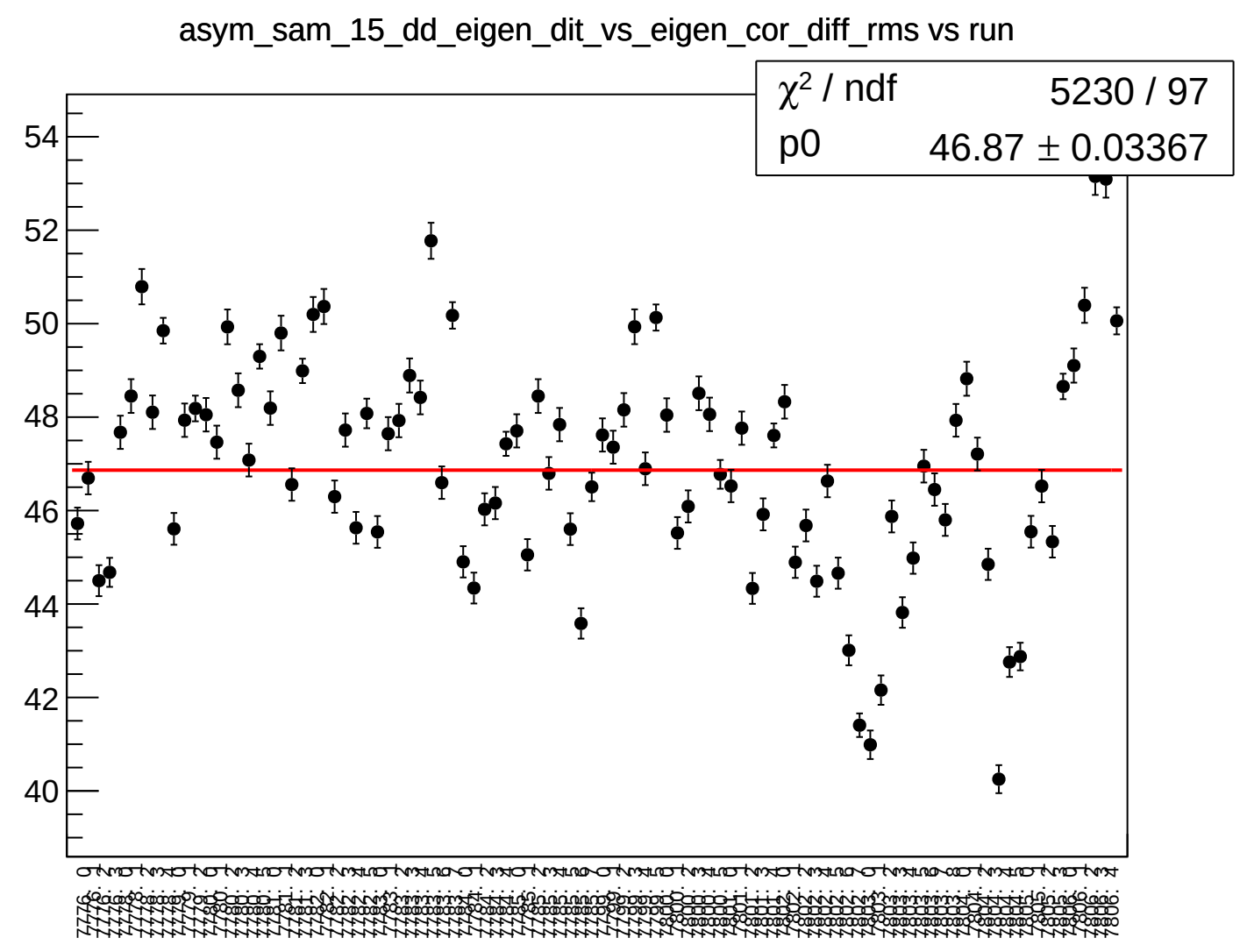

pull1D
Entries 98
Mean 0.004275
Std Dev 0.9118

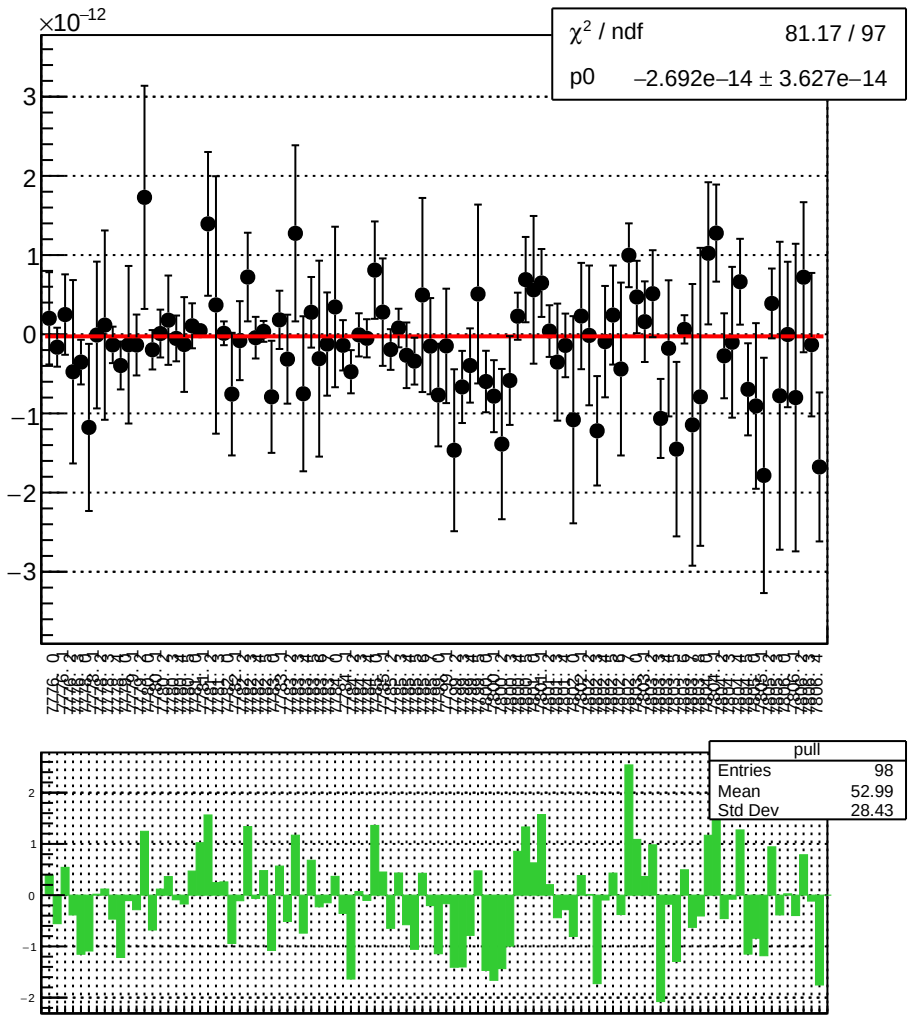

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.287e+05 / 97
p0 0.001248 ± 9.533e−07
0.003
0.0025
0.002
0.0015
0.001

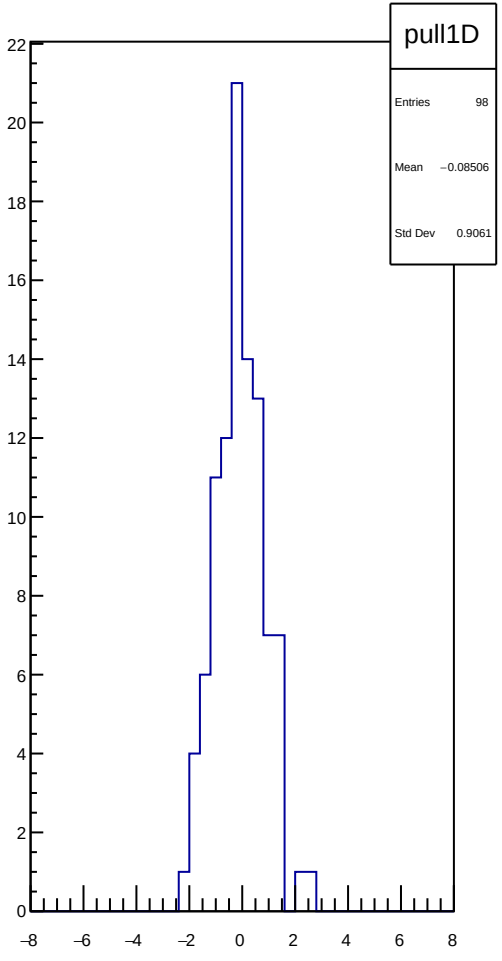

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 97
p0 0.1052 ± 0.04761
pull
Entries 98
Mean 219.2
Std Dev 0
pull1D
Entries 98
Mean −0.02145
Std Dev 1.034

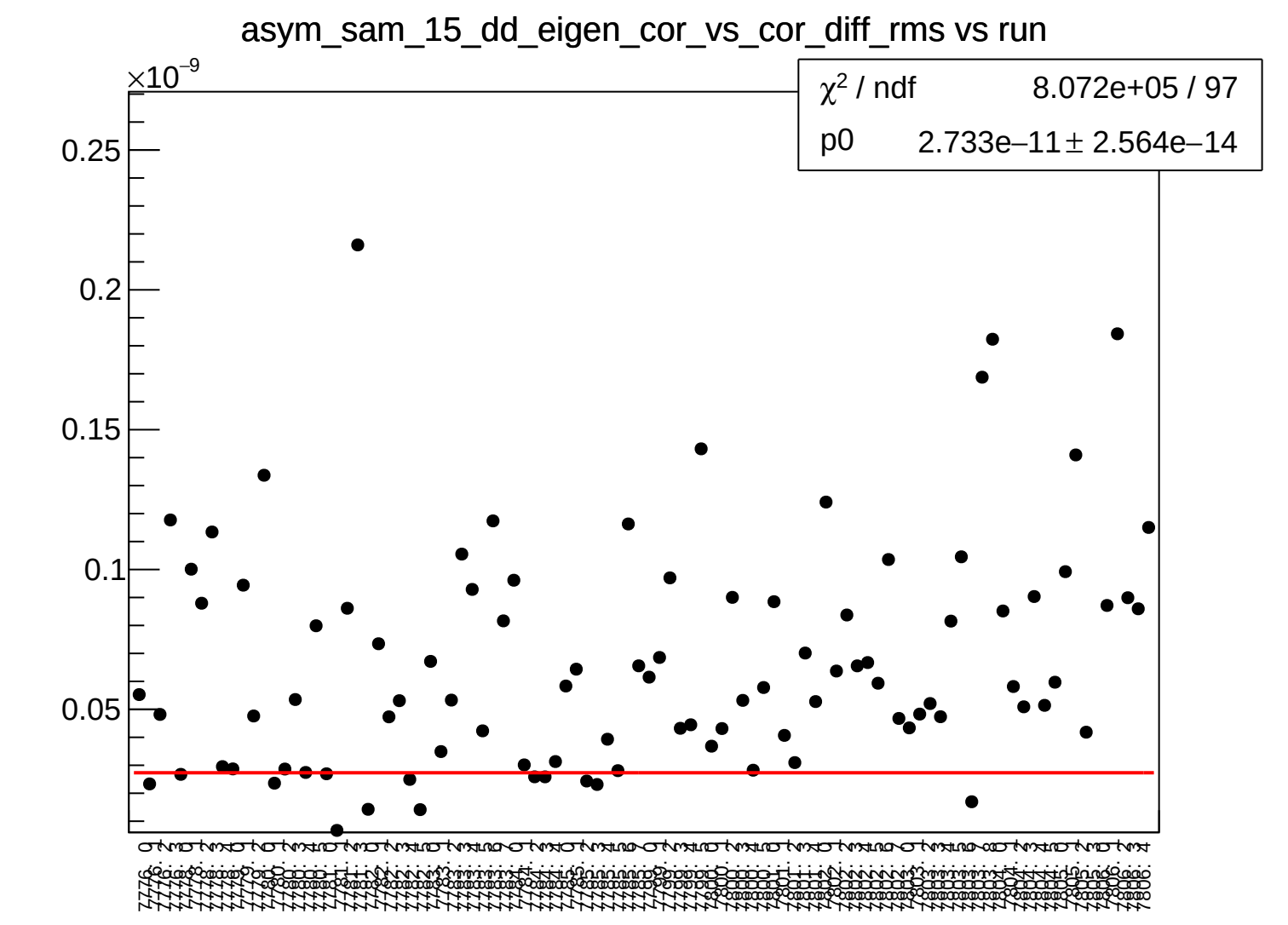

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5230 / 97
p0 46.87 ± 0.03367
54
52
50
48
46
44
42
40

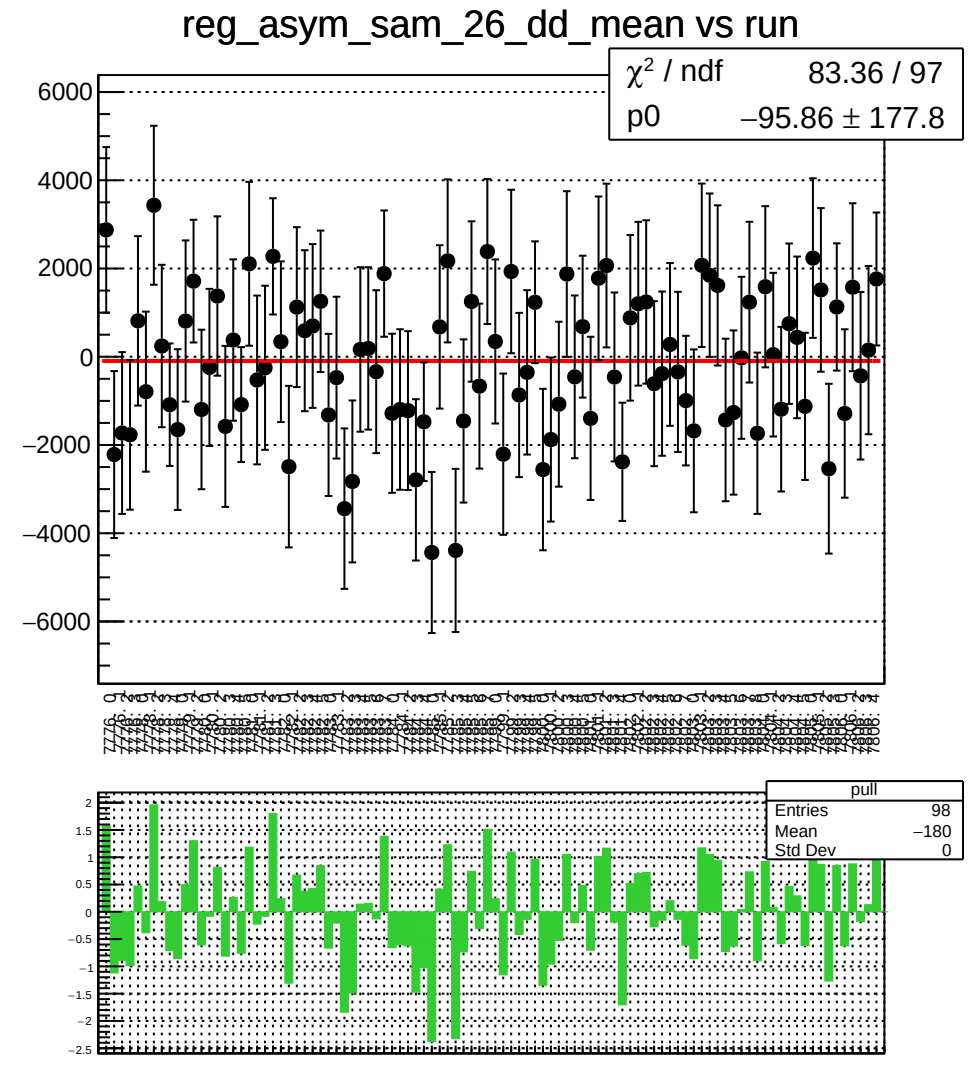

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 97
p0 0.1052 ± 0.04761
pull
Entries 98
Mean 219.2
Std Dev 0
pull1D
Entries 98
Mean −0.02145
Std Dev 1.034

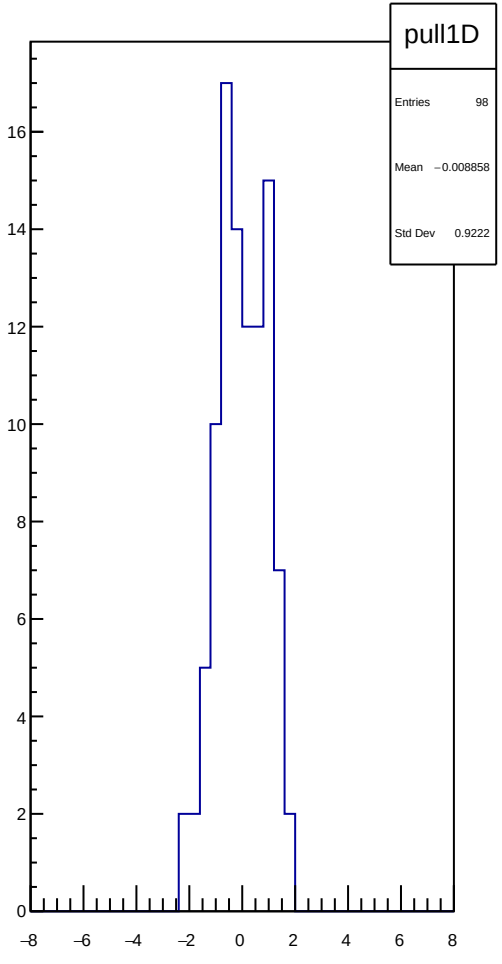

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5230 / 97
p0 46.87 ± 0.03367
54
52
50
48
46
44
42
40

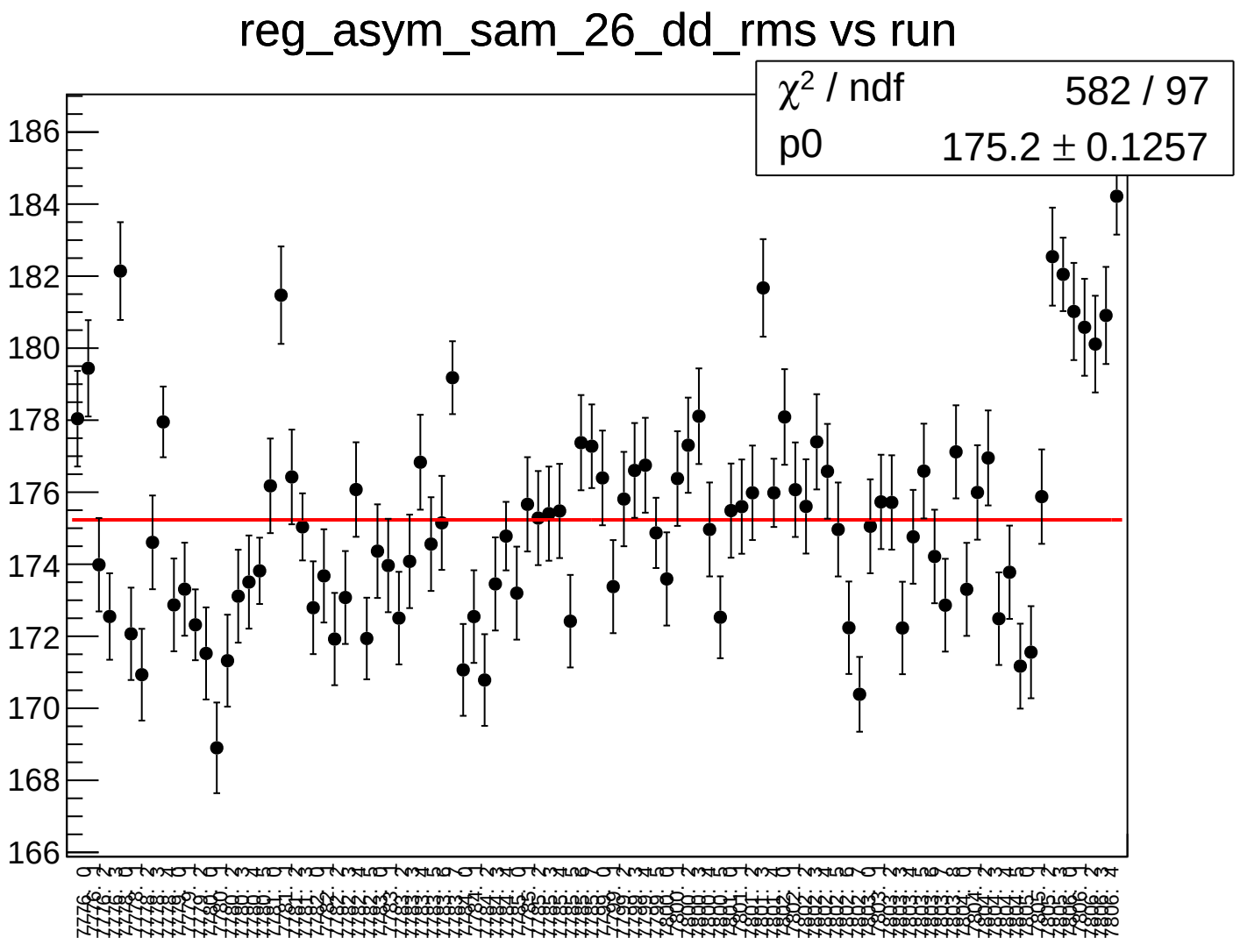

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.17 / 97
p0 −2.692e−14 ± 3.627e−14
pull
Entries 98
Mean 52.99
Std Dev 28.43

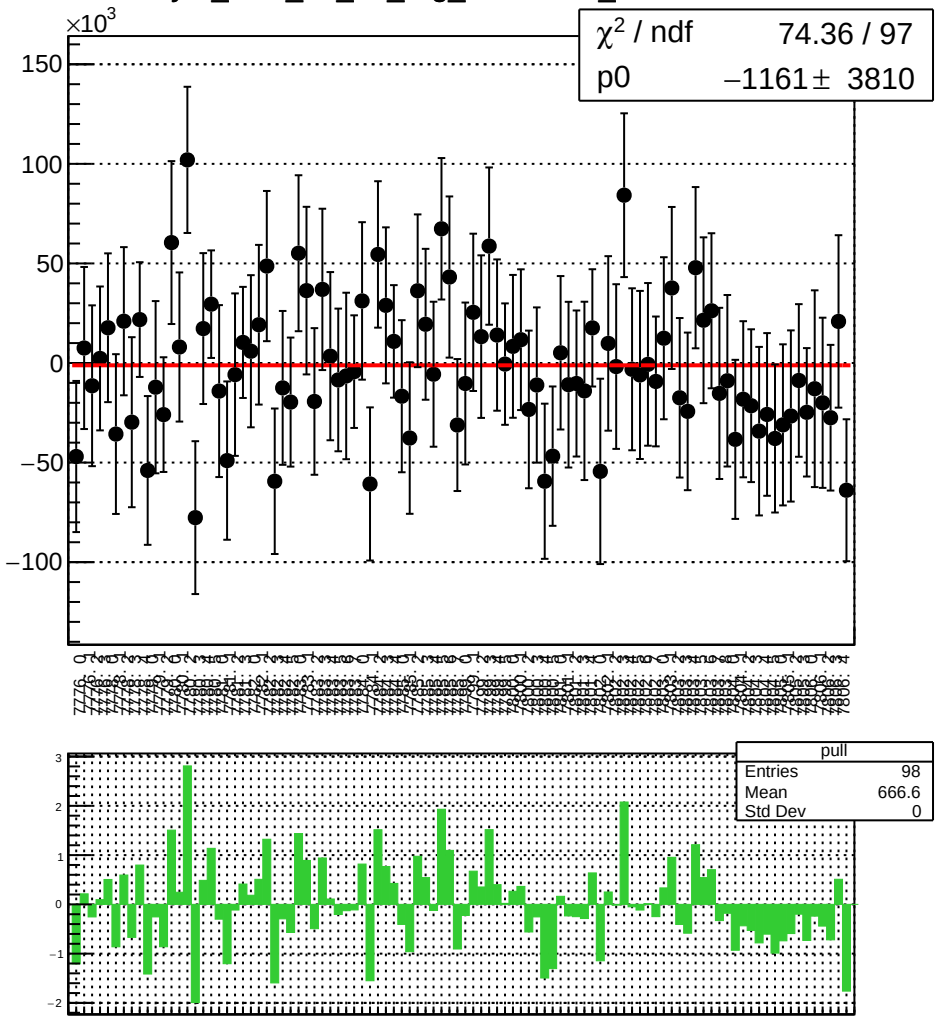

pull1D
Entries 98
Mean −0.08506
Std Dev 0.9061

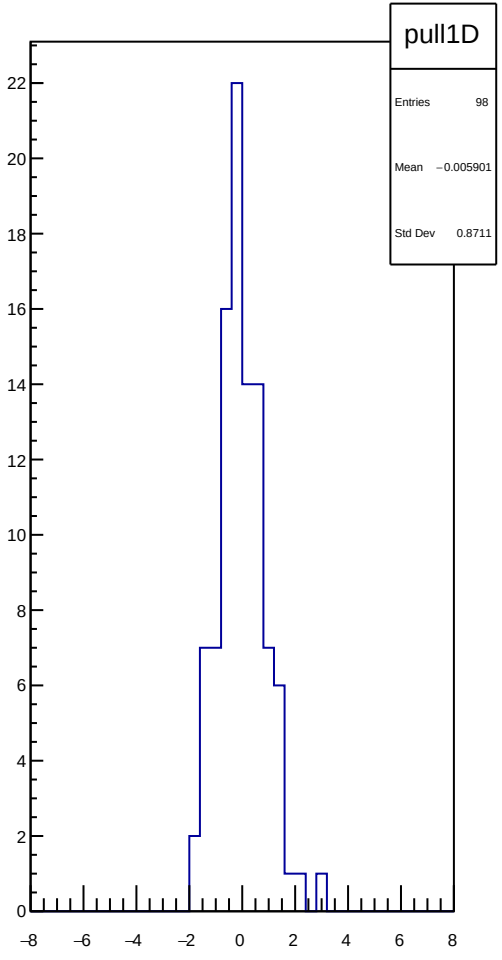

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.072e+05 / 97
p0 2.733e−11 ± 2.564e−14
0.25
0.2
0.15
0.1
0.05

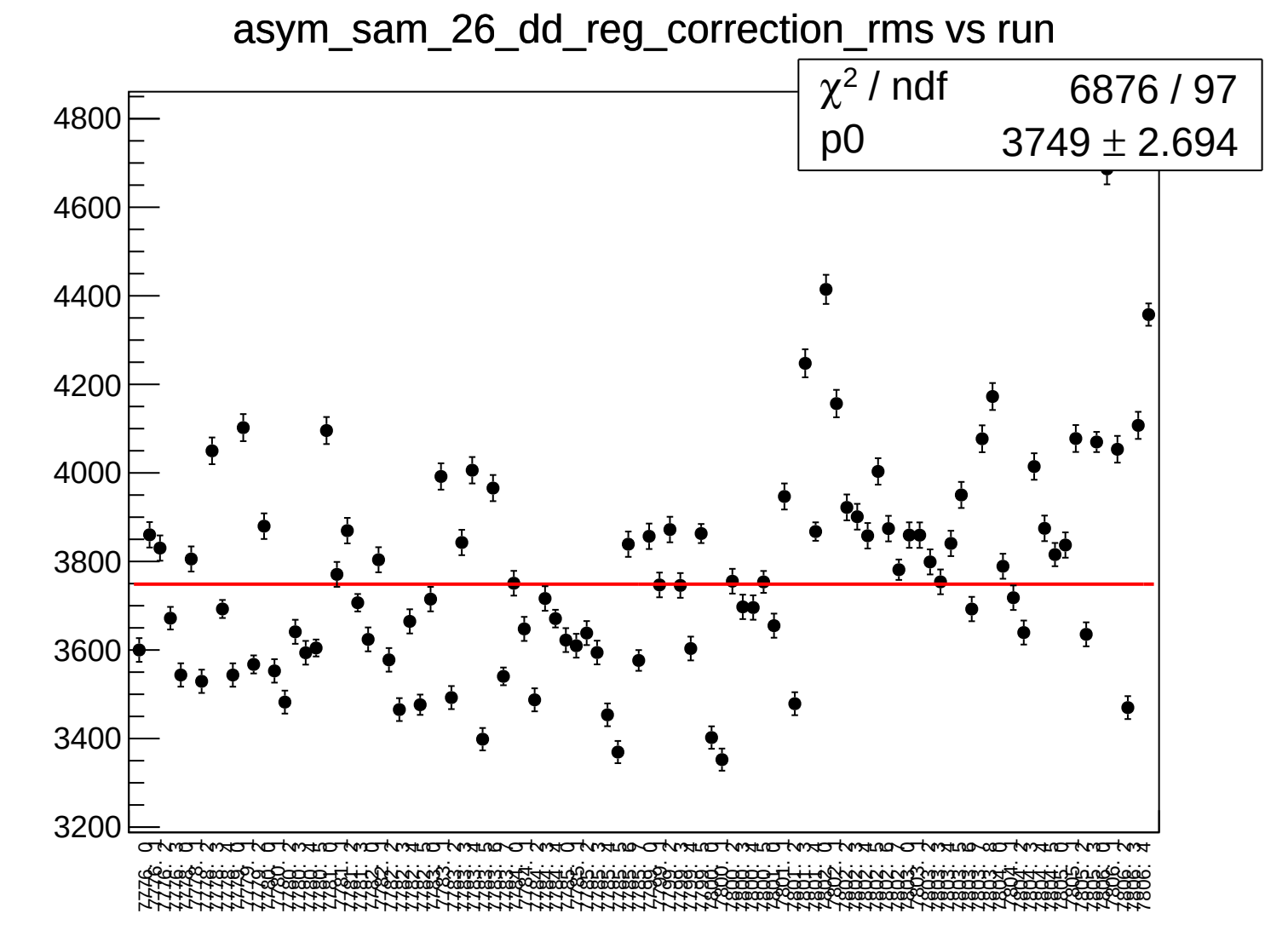

reg_asym_sam_26_dd_mean vs run
χ² / ndf 83.36 / 97
p0 −95.86 ± 177.8
pull
Entries 98
Mean −180
Std Dev 0

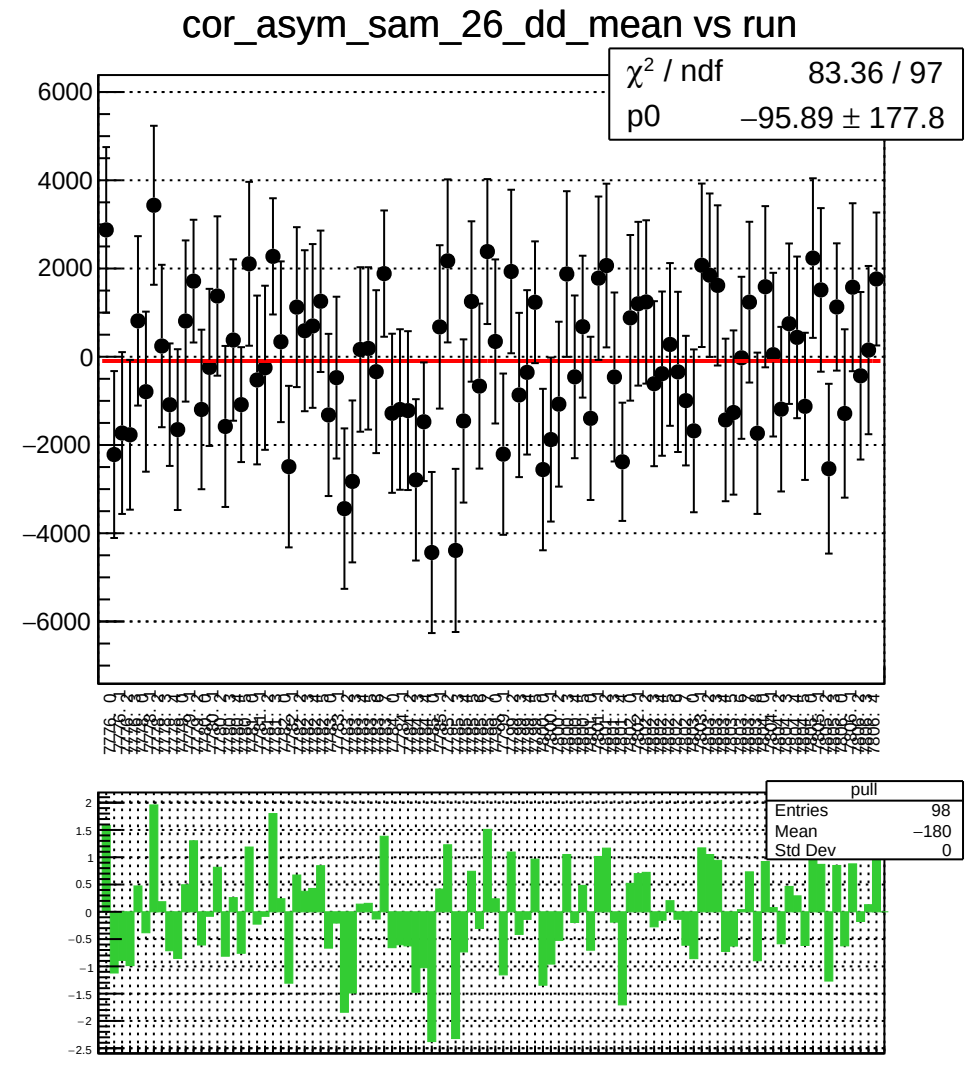

pull1D
Entries 98
Mean −0.008858
Std Dev 0.9222

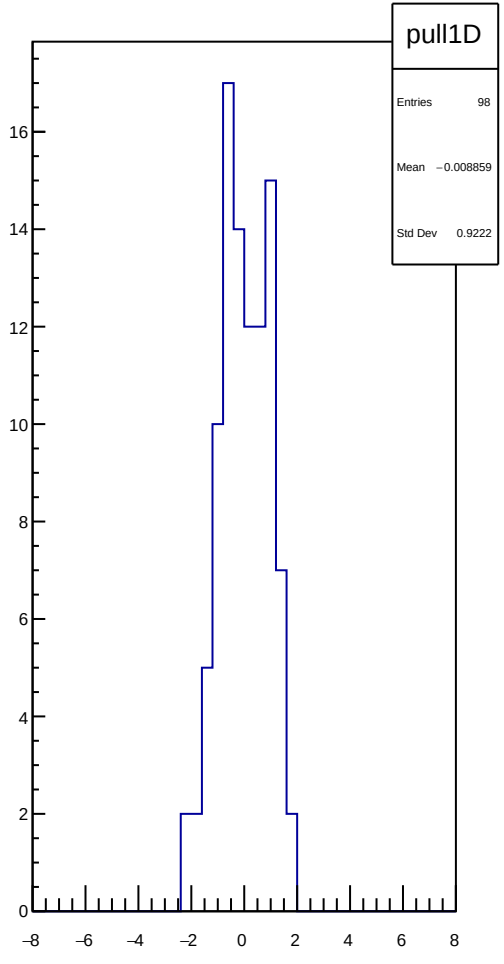

reg_asym_sam_26_dd_rms vs run
χ² / ndf 582 / 97
p0 175.2 ± 0.1257
186
184
182
180
178
176
174
172
170
168
166

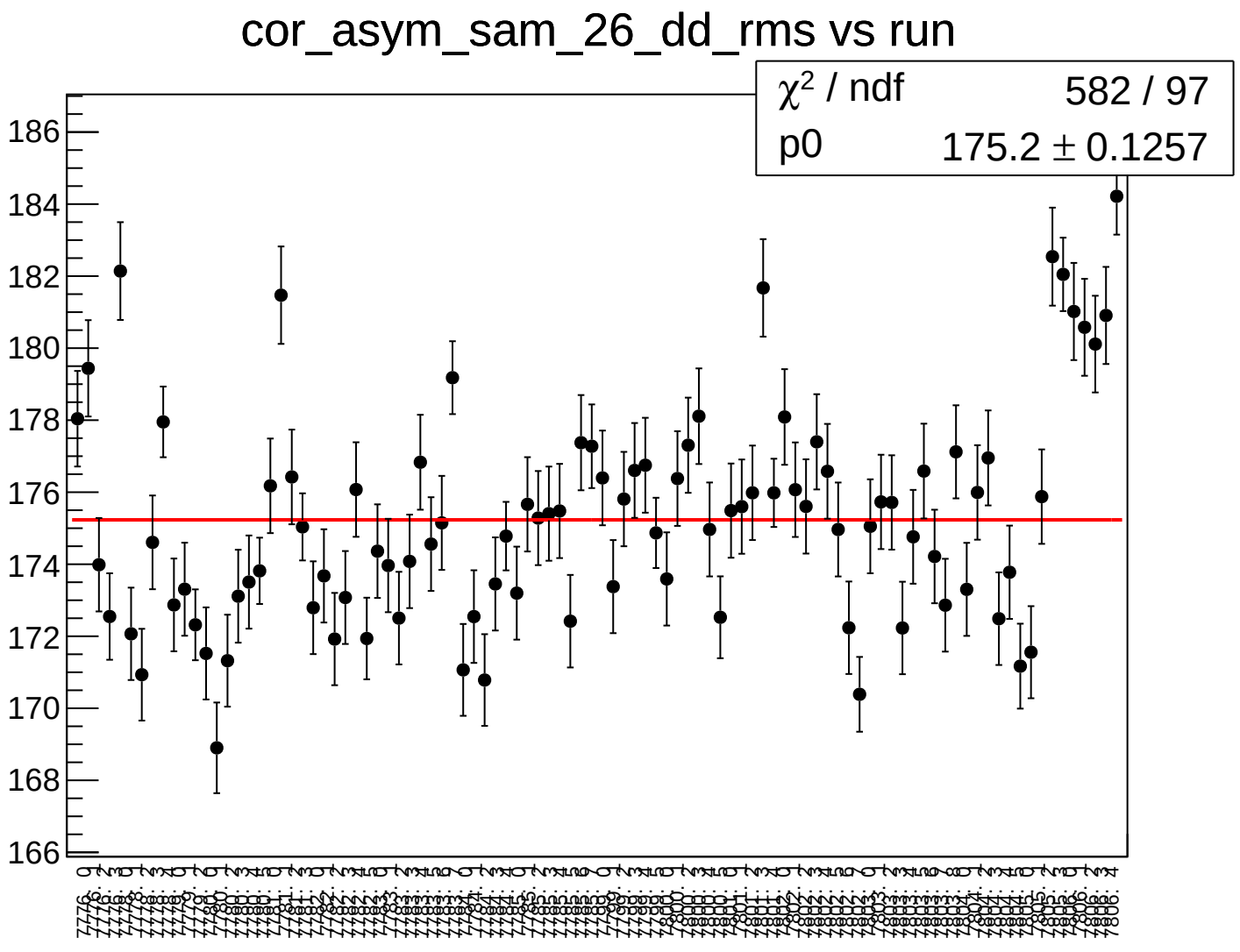

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 74.36 / 97
p0 −1161 ± 3810
150
100
50
0
−50
−100
pull
Entries 98
Mean 666.6
Std Dev 0
3
2
1
0
−1
−2

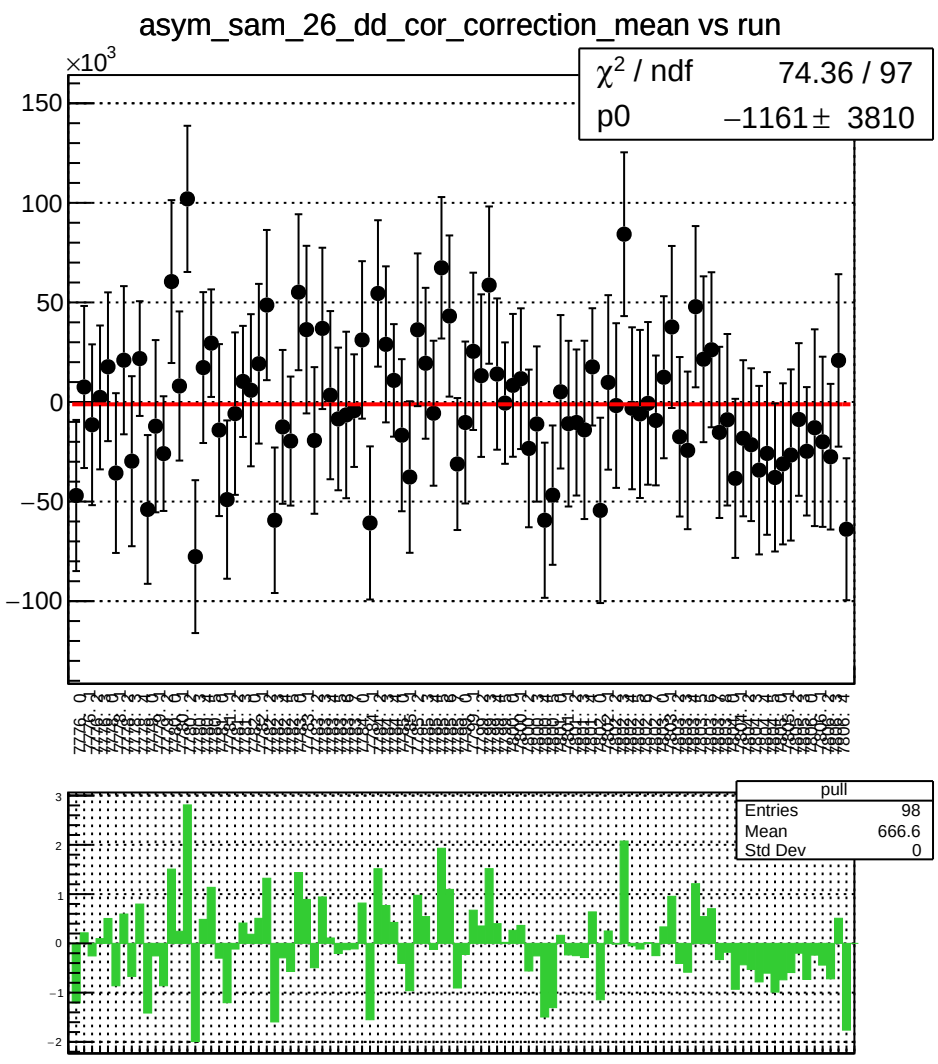

pull1D
Entries 98
Mean −0.005901
Std Dev 0.8711
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

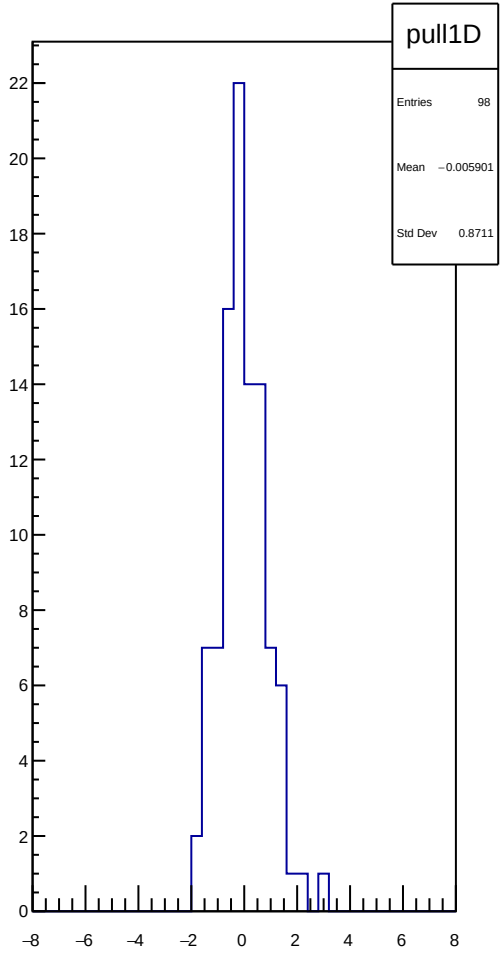

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 6876 / 97
p0 3749 ± 2.694
4800
4600
4400
4200
4000
3800
3600
3400
3200

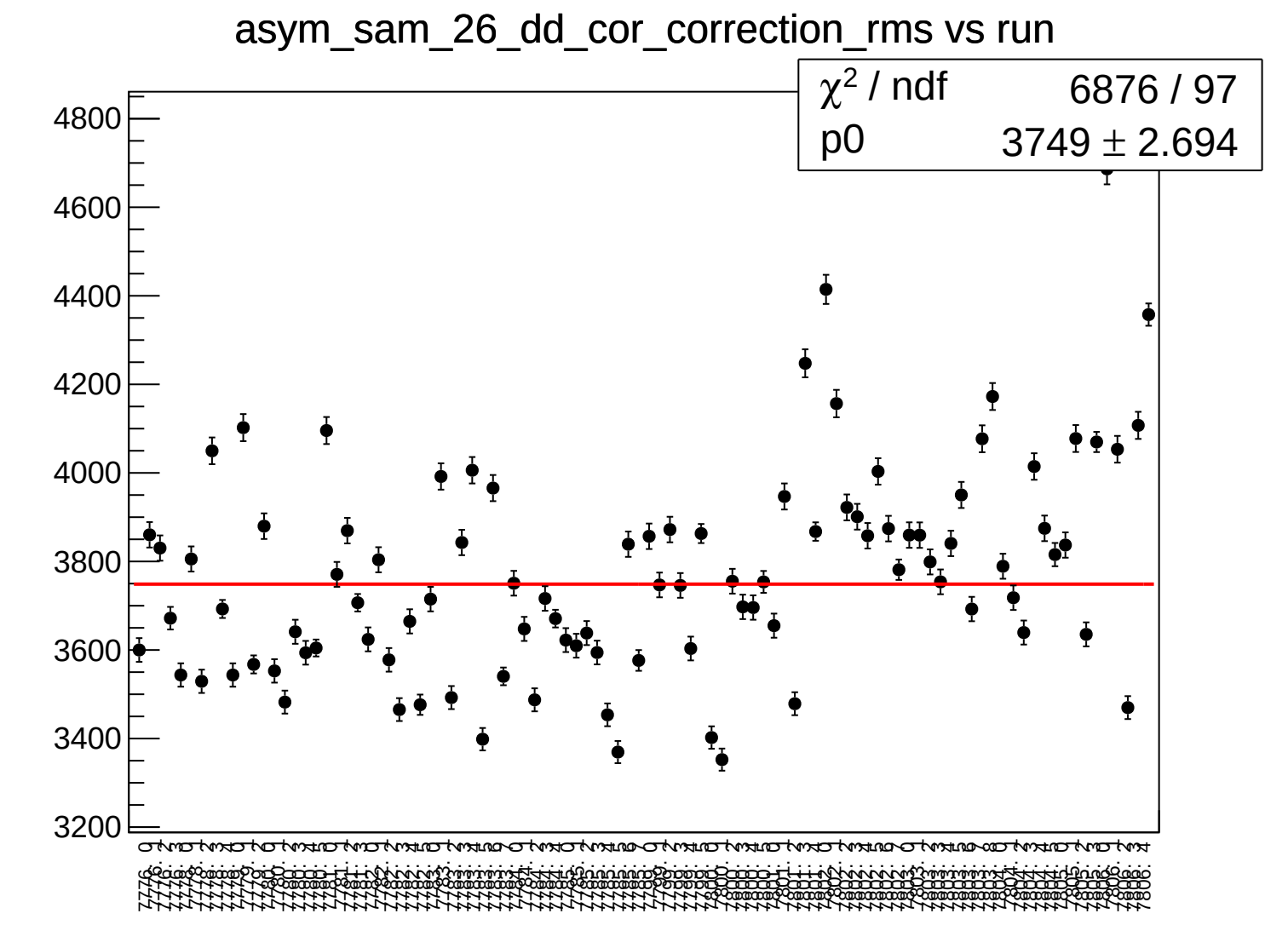

cor_asym_sam_26_dd_mean vs run
χ² / ndf 83.36 / 97
p0 −95.89 ± 177.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean −180
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

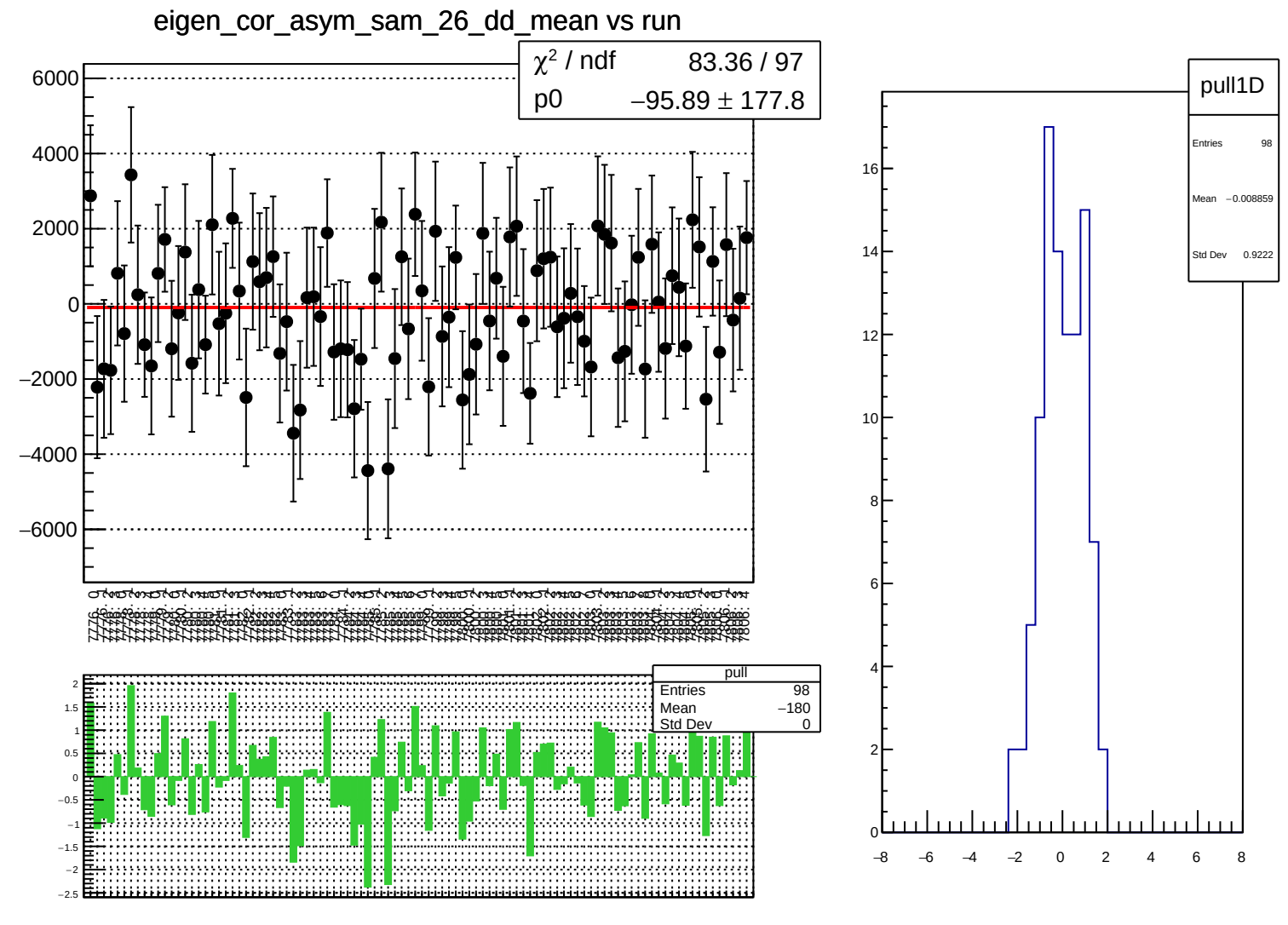

pull1D
Entries 98
Mean −0.008859
Std Dev 0.9222
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

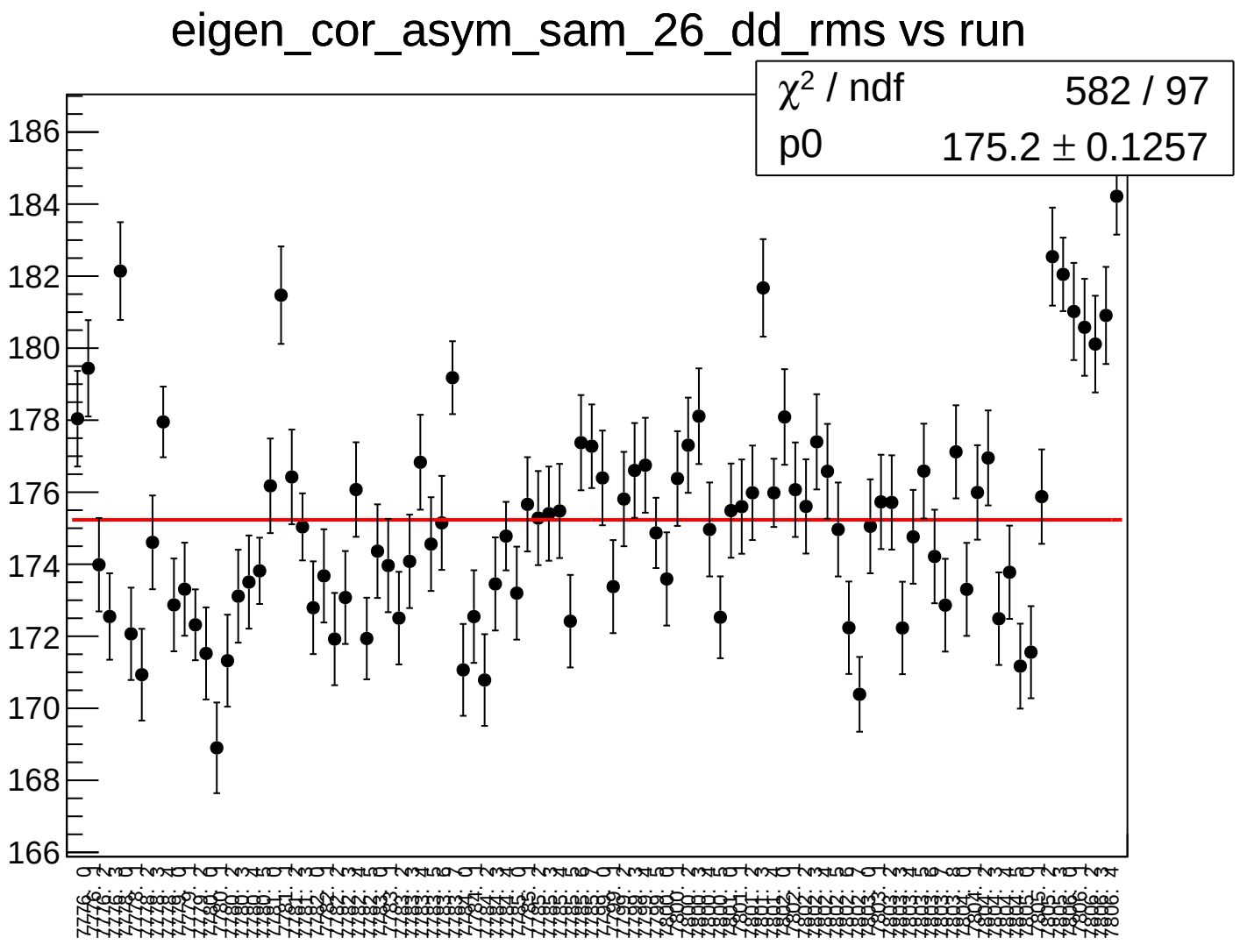

cor_asym_sam_26_dd_rms vs run
χ² / ndf 582 / 97
p0 175.2 ± 0.1257
186
184
182
180
178
176
174
172
170
168
166

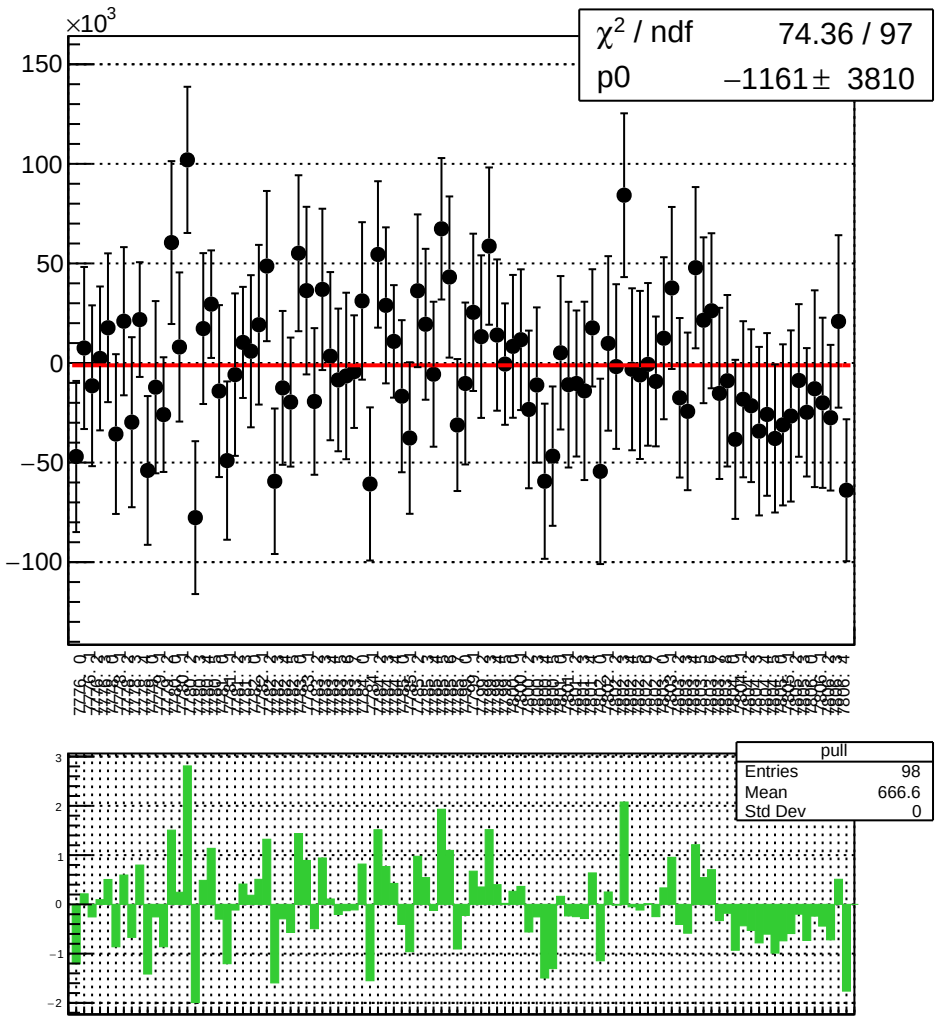

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 74.36 / 97
p0 −1161 ± 3810
150
100
50
0
−50
−100
pull
Entries 98
Mean 666.6
Std Dev 0
3
2
1
0
−1
−2

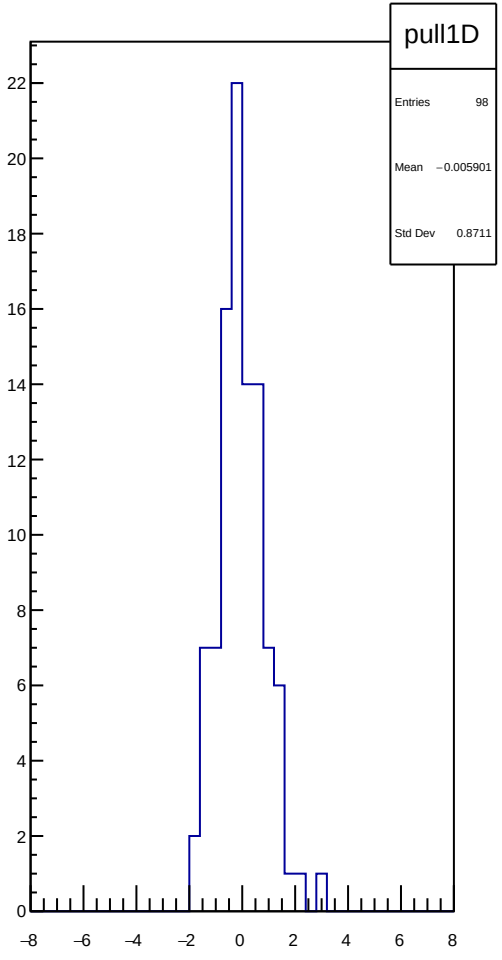

pull1D
Entries 98
Mean −0.005901
Std Dev 0.8711
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

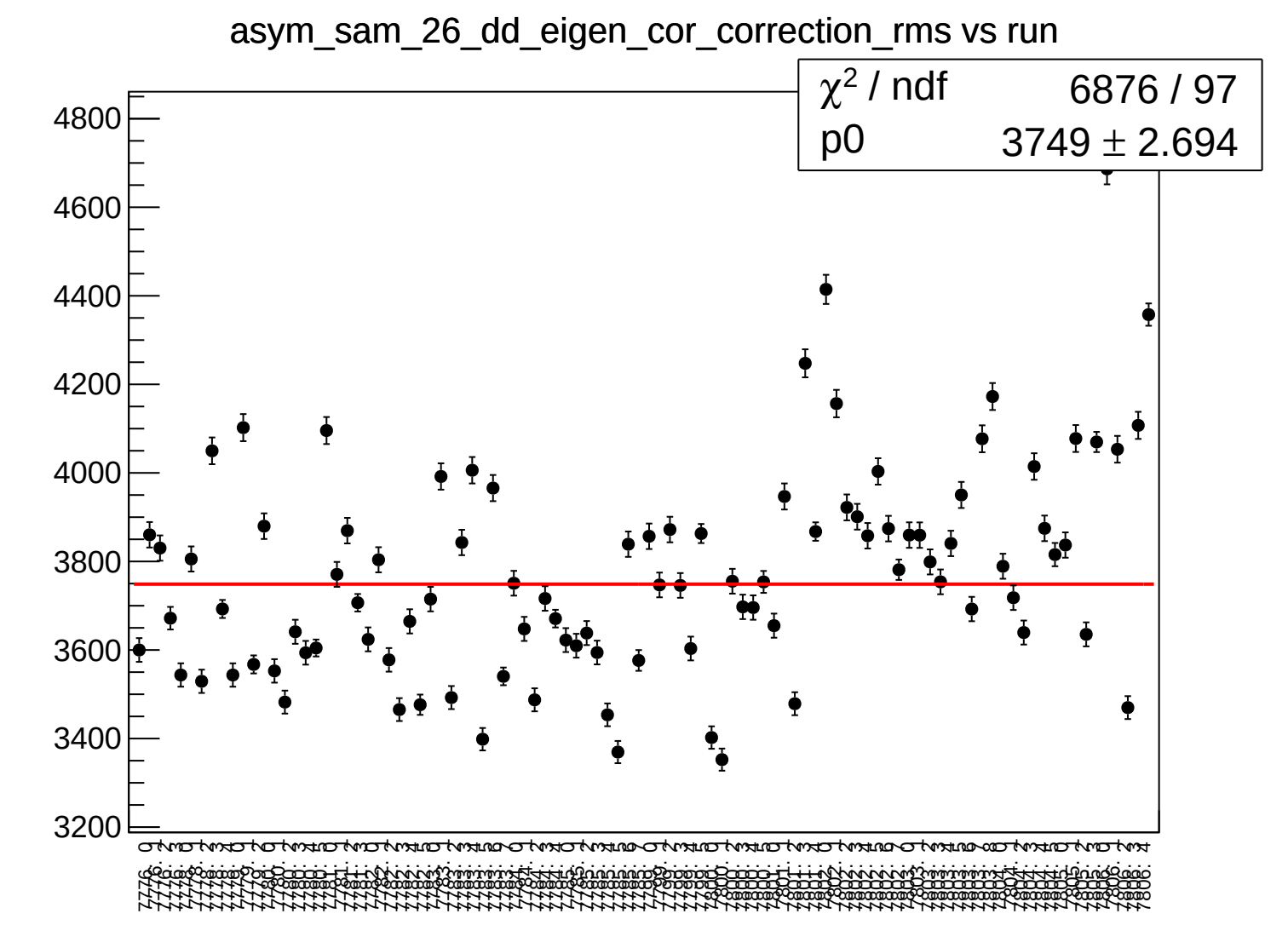

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 6876 / 97
p0 3749 ± 2.694
4800
4600
4400
4200
4000
3800
3600
3400
3200

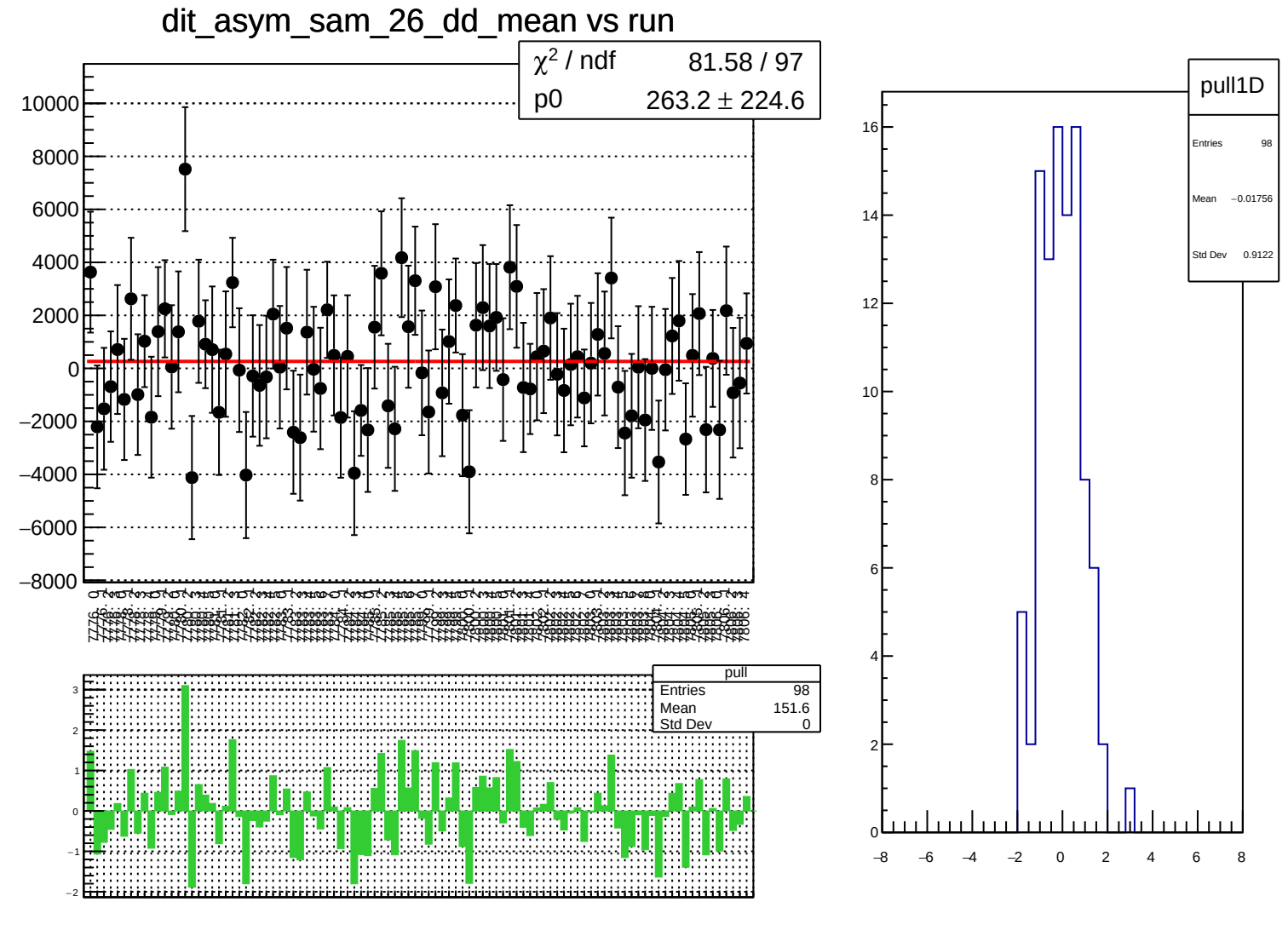

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 83.36 / 97
p0 −95.89 ± 177.8
pull
Entries 98
Mean −180
Std Dev 0
pull1D
Entries 98
Mean −0.008859
Std Dev 0.9222

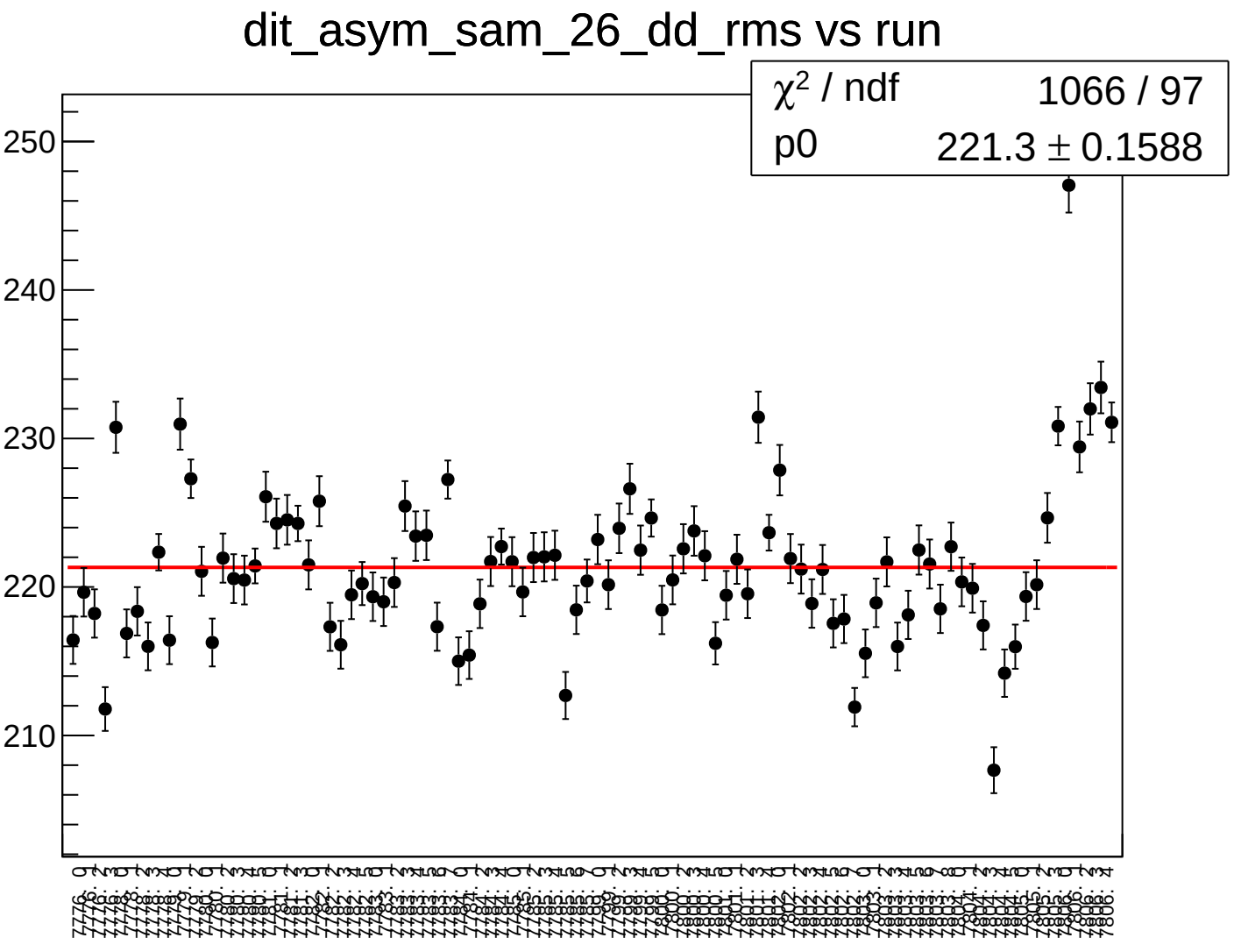

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 582 / 97
p0 175.2 ± 0.1257
186
184
182
180
178
176
174
172
170
168
166

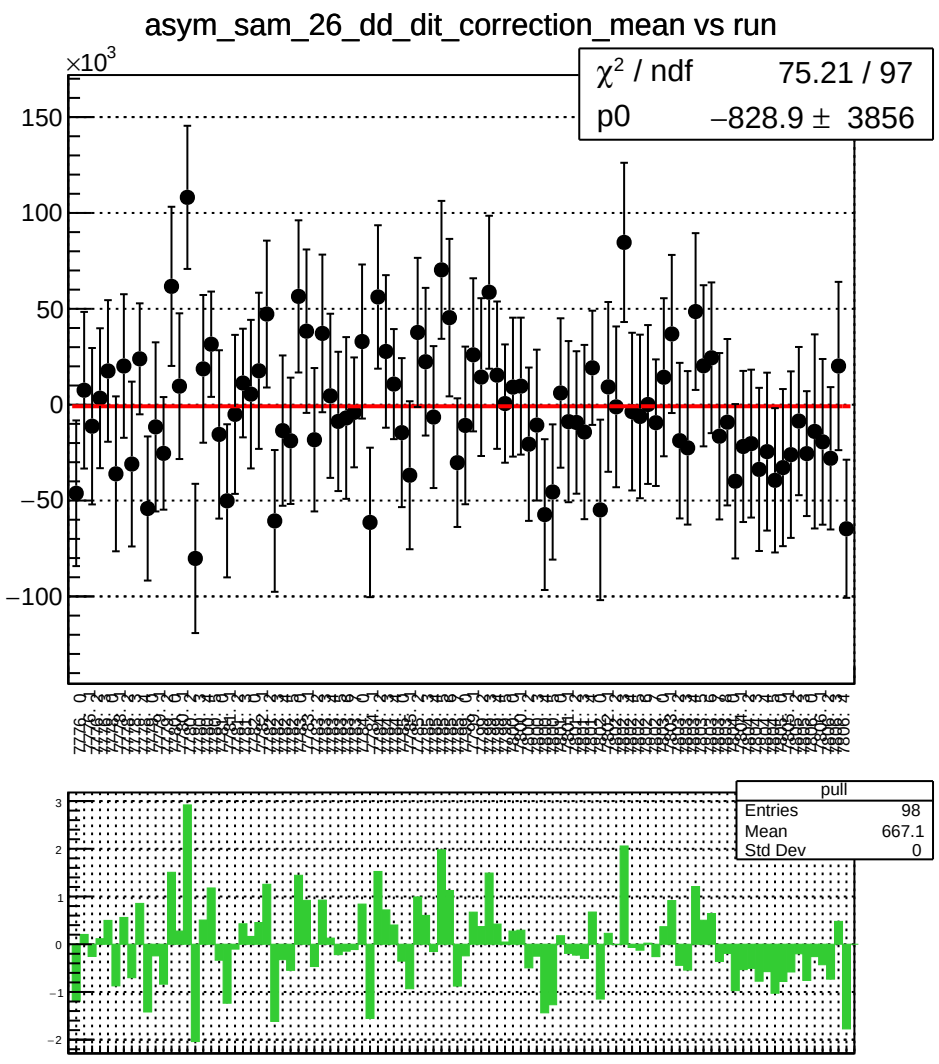

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.36 / 97
p0 −1161 ± 3810
150
100
50
0
−50
−100
pull
Entries 98
Mean 666.6
Std Dev 0
3
2
1
0
−1
−2

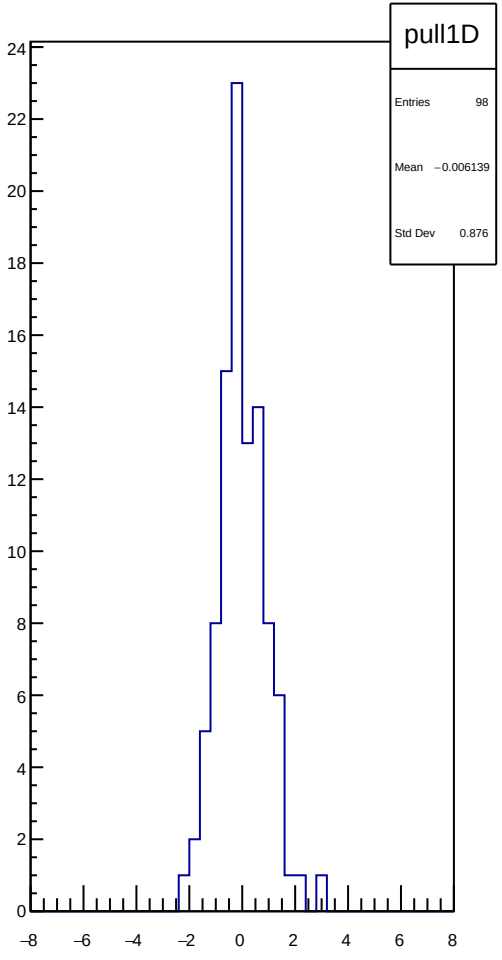

pull1D
Entries 98
Mean −0.005901
Std Dev 0.8711
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

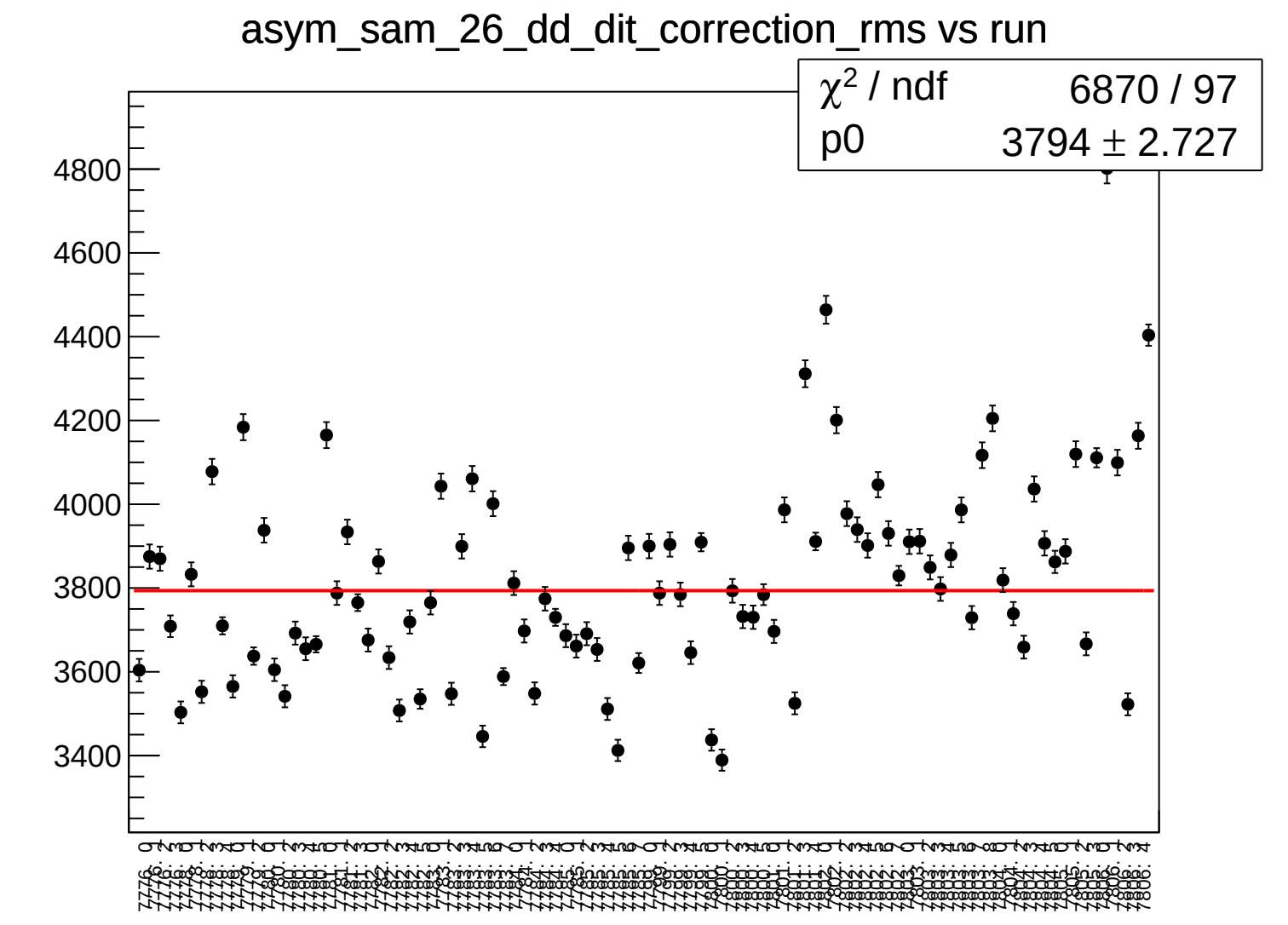

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6876 / 97
p0 3749 ± 2.694
4800
4600
4400
4200
4000
3800
3600
3400
3200

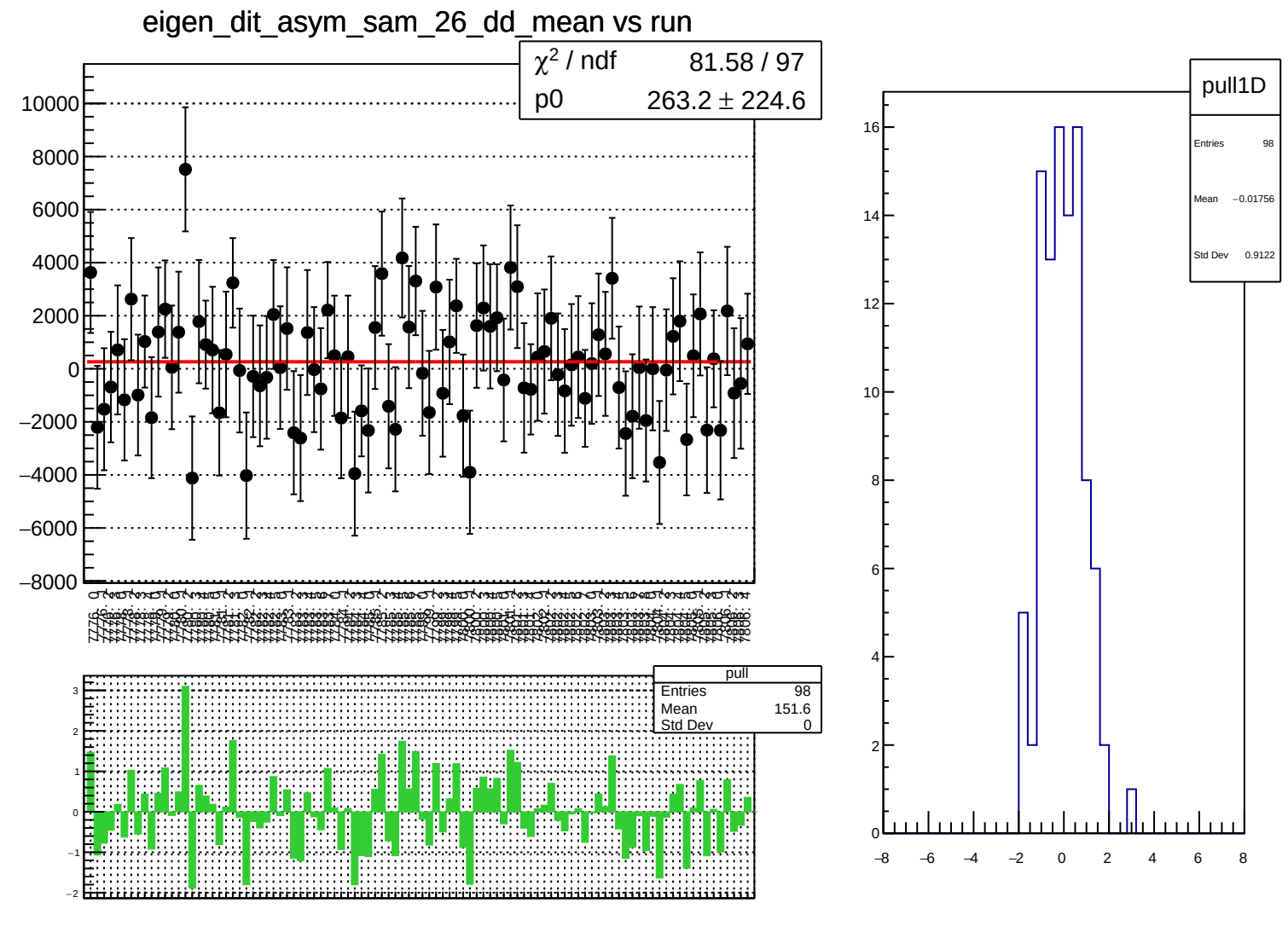

dit_asym_sam_26_dd_mean vs run
χ² / ndf 81.58 / 97
p0 263.2 ± 224.6
pull
Entries 98
Mean 151.6
Std Dev 0
pull1D
Entries 98
Mean −0.01756
Std Dev 0.9122

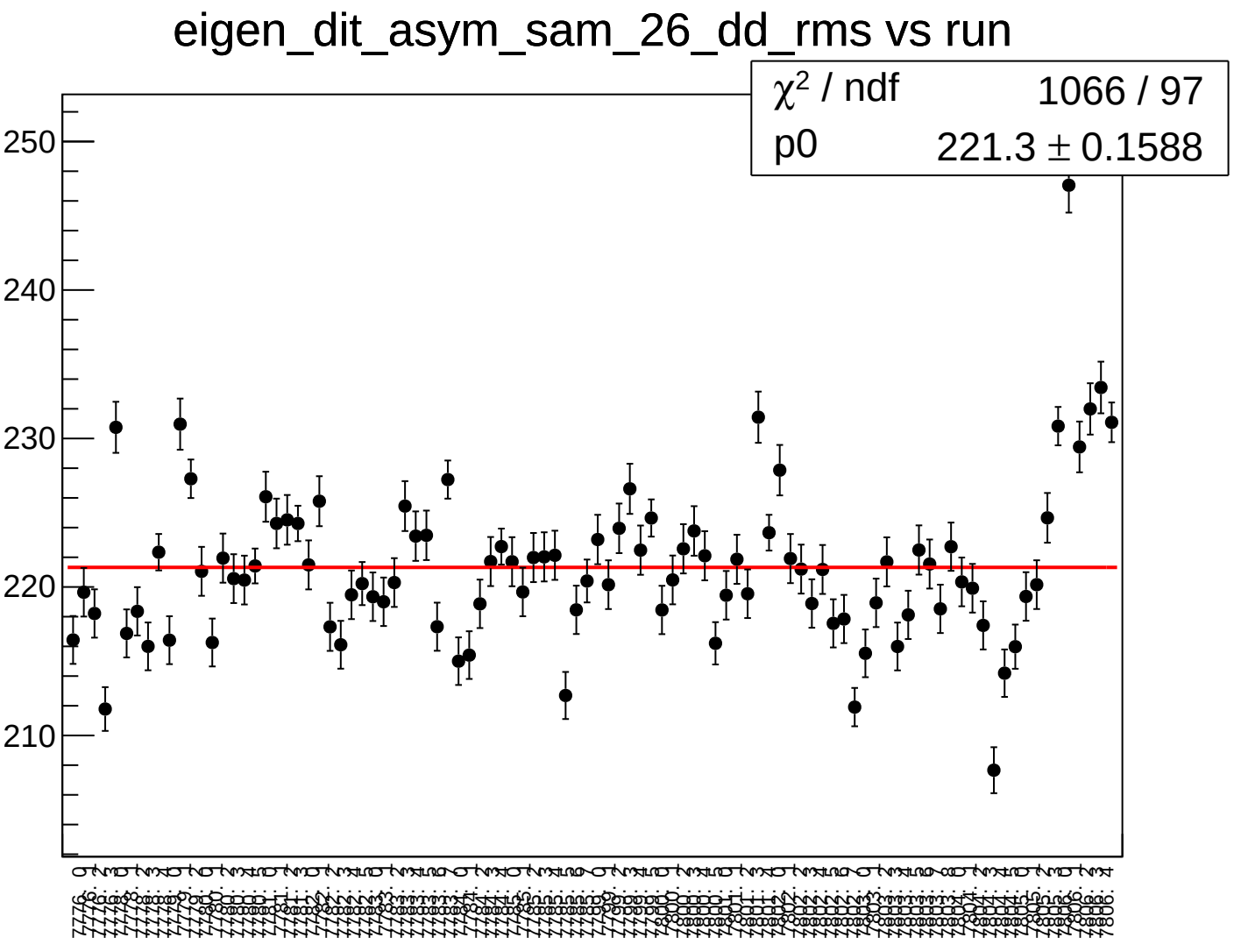

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1066 / 97
p0 221.3 ± 0.1588
250
240
230
220
210

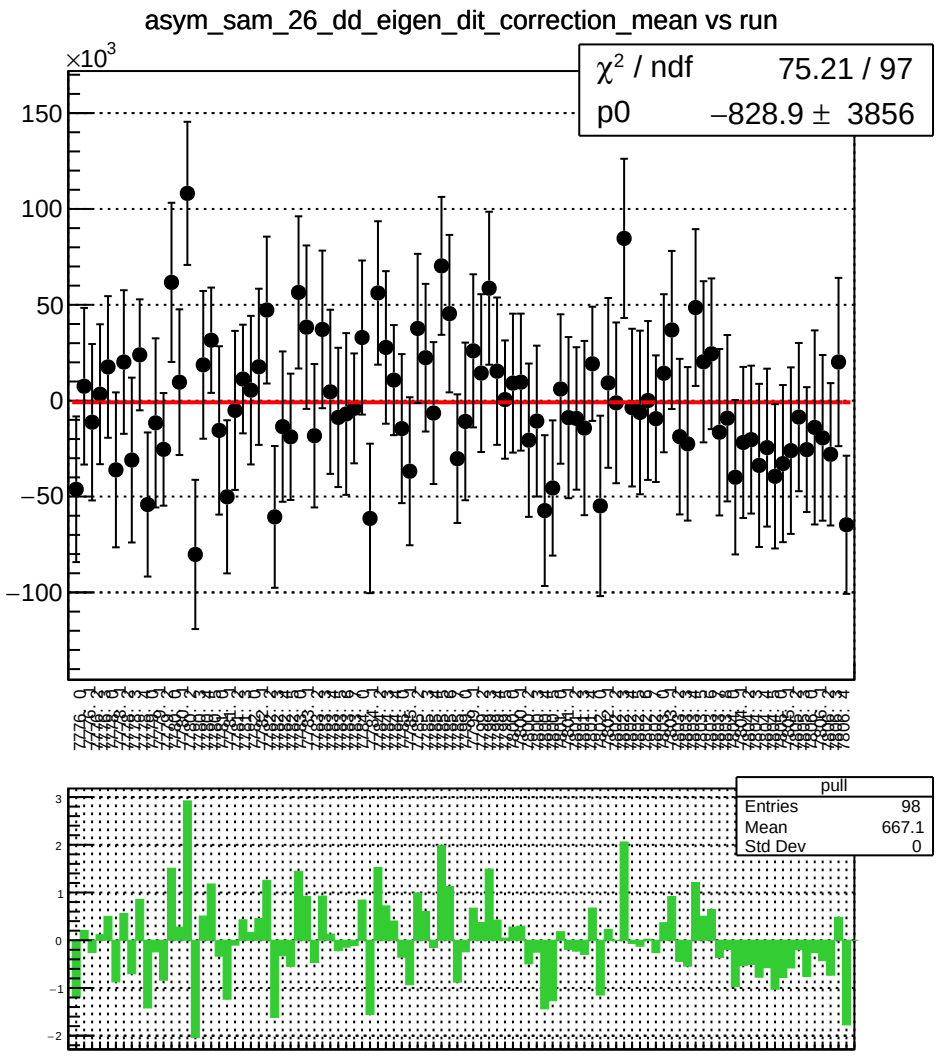

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 75.21 / 97
p0 −828.9 ± 3856
150
100
50
0
−50
−100
pull
Entries 98
Mean 667.1
Std Dev 0
3
2
1
0
−1
−2

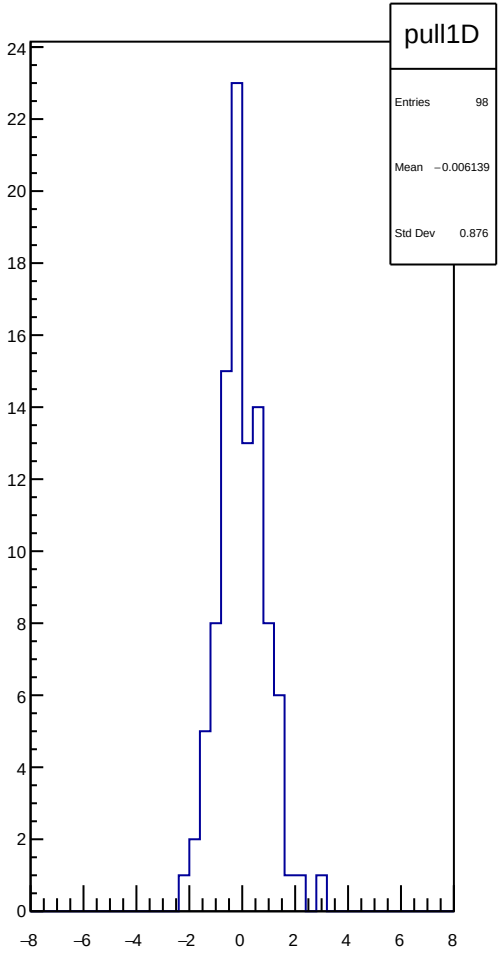

pull1D
Entries 98
Mean −0.006139
Std Dev 0.876
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

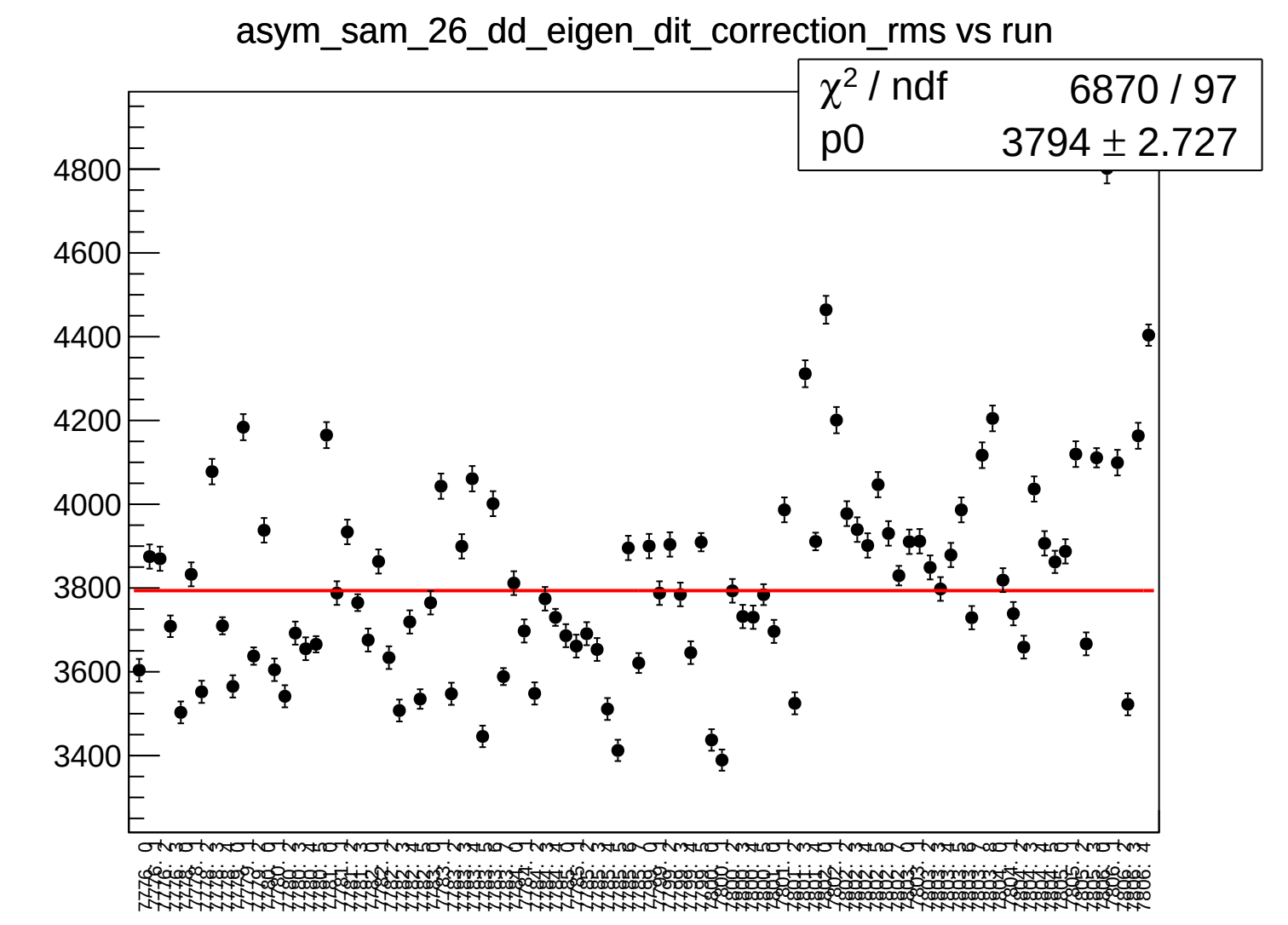

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 6870 / 97
p0 3794 ± 2.727
4800
4600
4400
4200
4000
3800
3600
3400

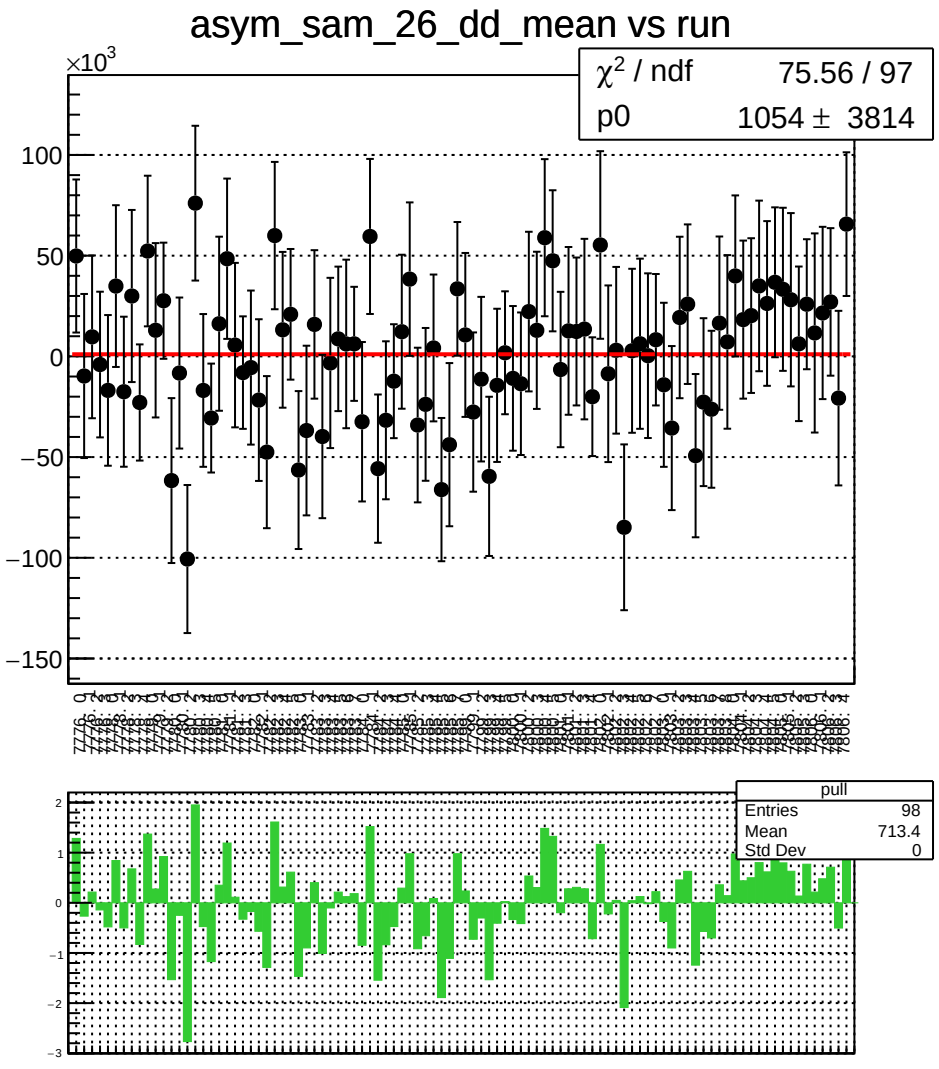

eigen_dit_asym_sam_26_dd_mean vs run
χ^2 / ndf 81.58 / 97
p0 263.2 ± 224.6
pull
Entries 98
Mean 151.6
Std Dev 0
pull1D
Entries 98
Mean −0.01756
Std Dev 0.9122

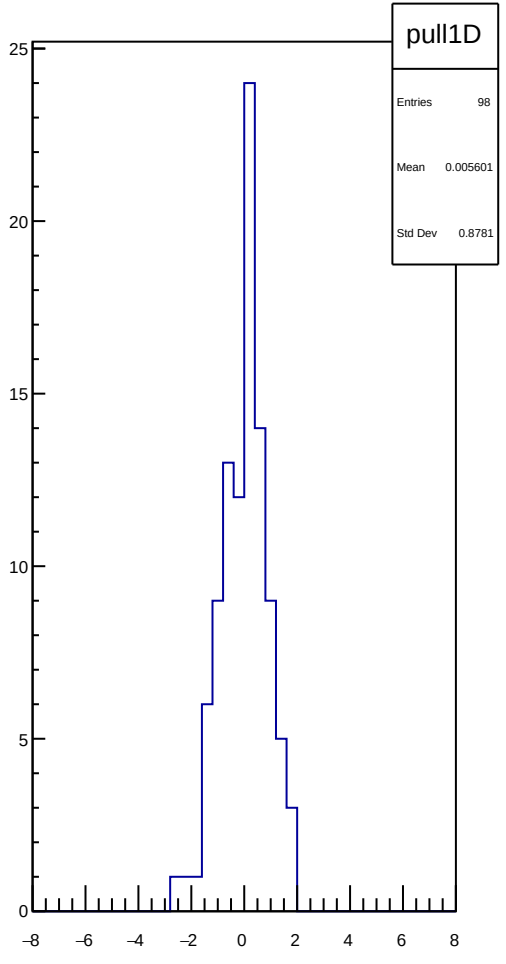

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1066 / 97
p0 221.3 ± 0.1588
250
240
230
220
210

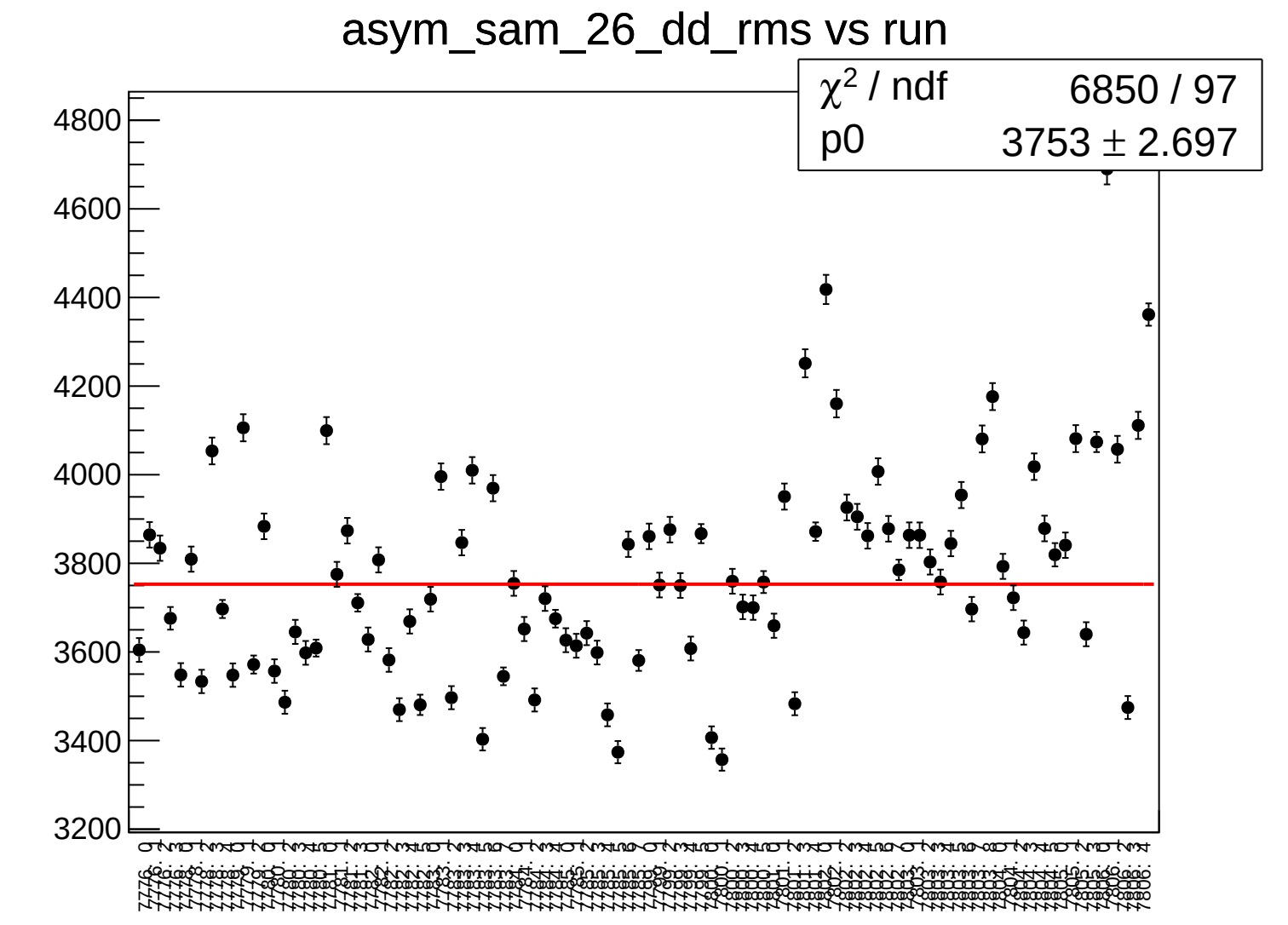

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 75.21 / 97
p0 −828.9 ± 3856
150
100
50
0
−50
−100
pull
Entries 98
Mean 667.1
Std Dev 0
3
2
1
0
−1
−2

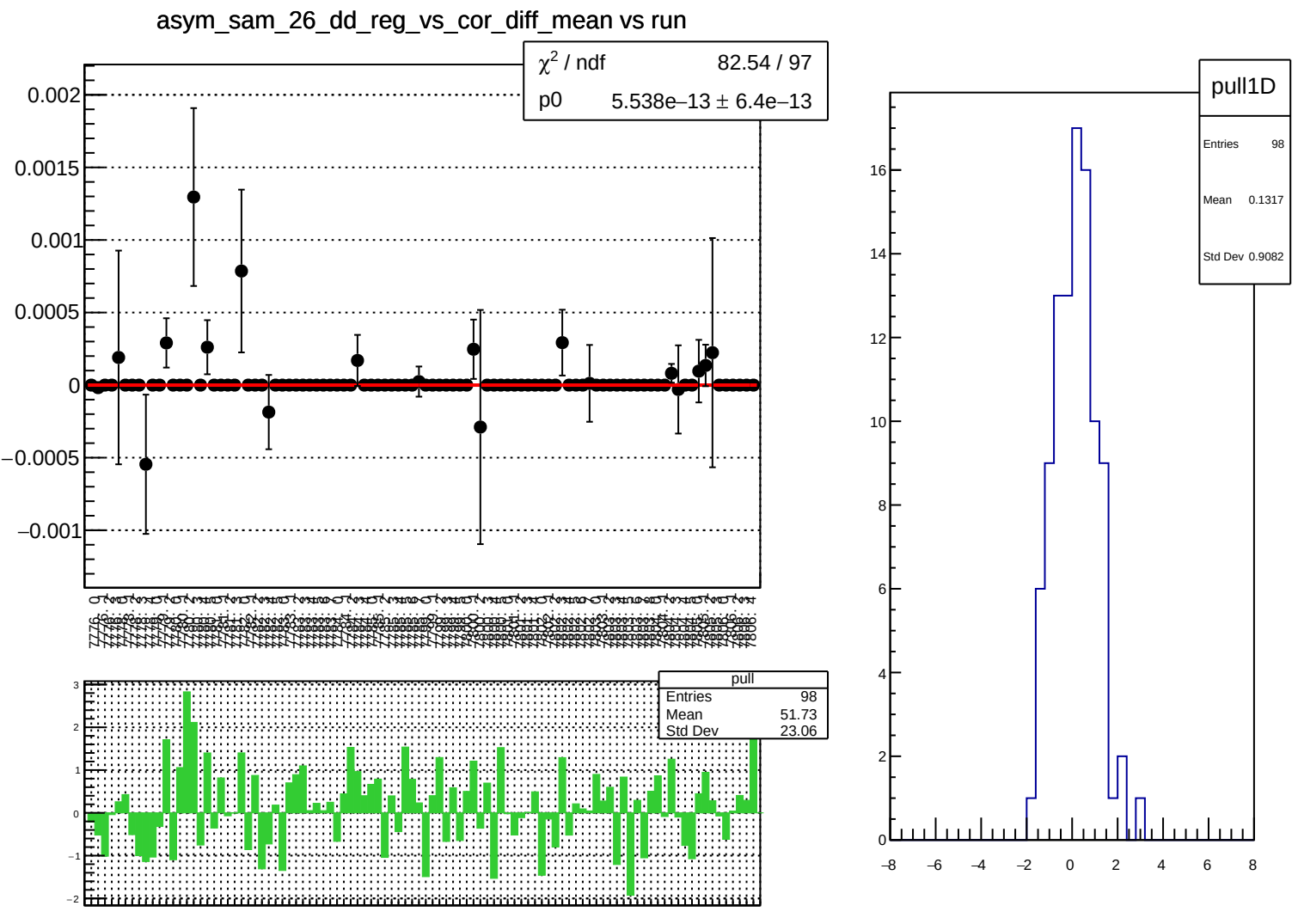

pull1D
Entries 98
Mean −0.006139
Std Dev 0.876
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

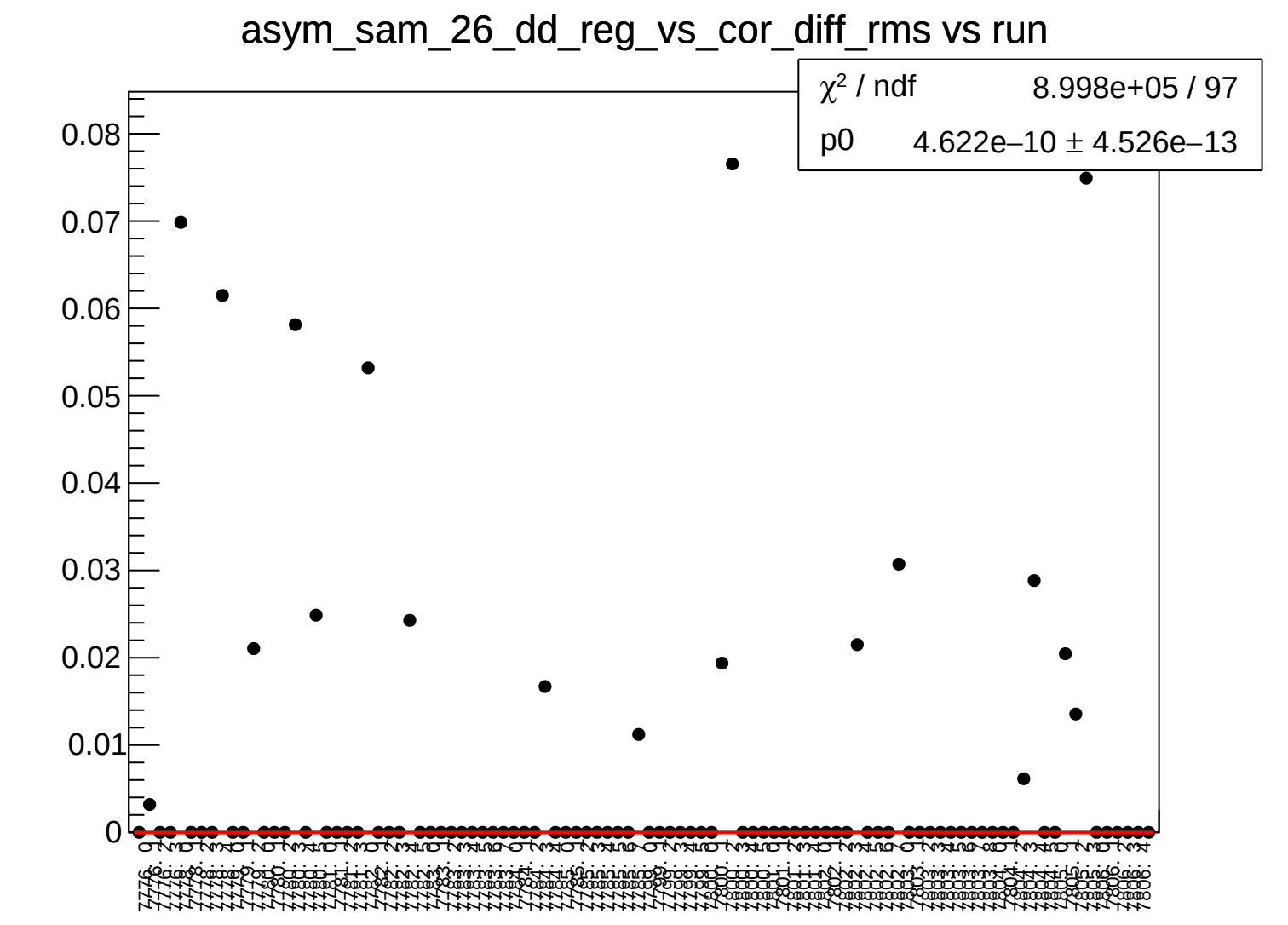

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6870 / 97
p0 3794 ± 2.727
4800
4600
4400
4200
4000
3800
3600
3400

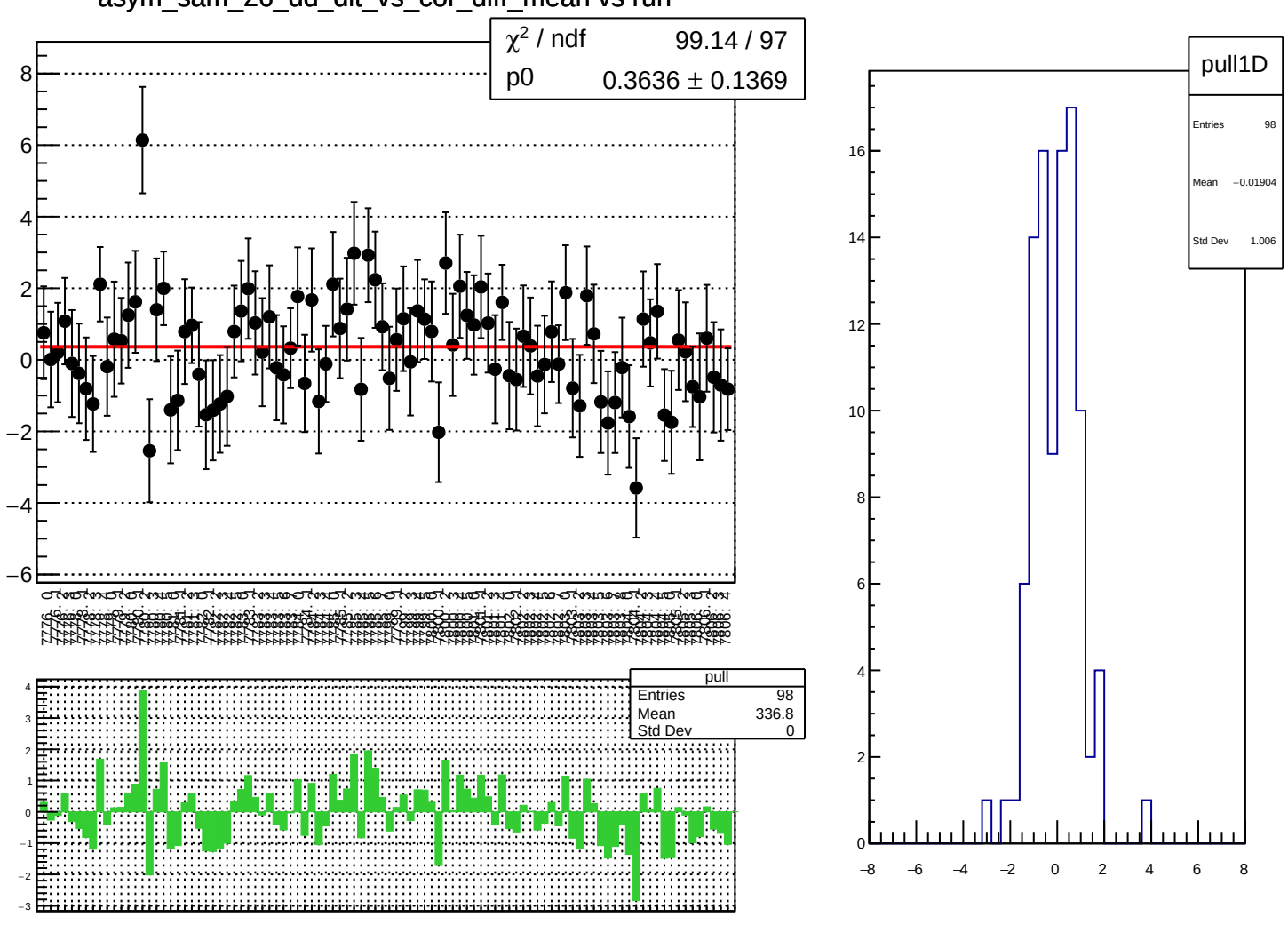

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 75.56 / 97
p0 1054 ± 3814
100
50
0
−50
−100
−150
pull
Entries 98
Mean 713.4
Std Dev 0
2
1
0
−1
−2
−3

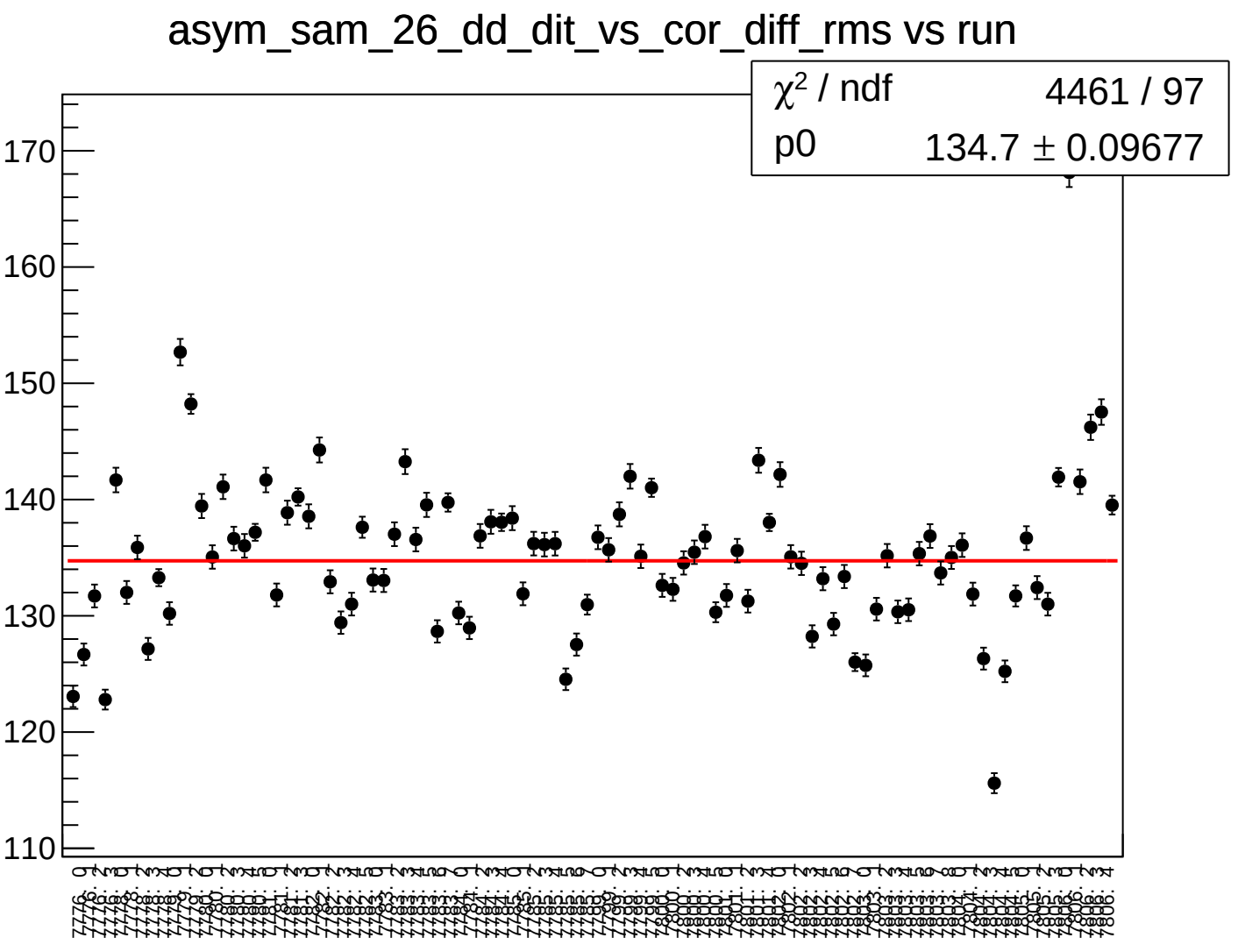

pull1D
Entries 98
Mean 0.005601
Std Dev 0.8781
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

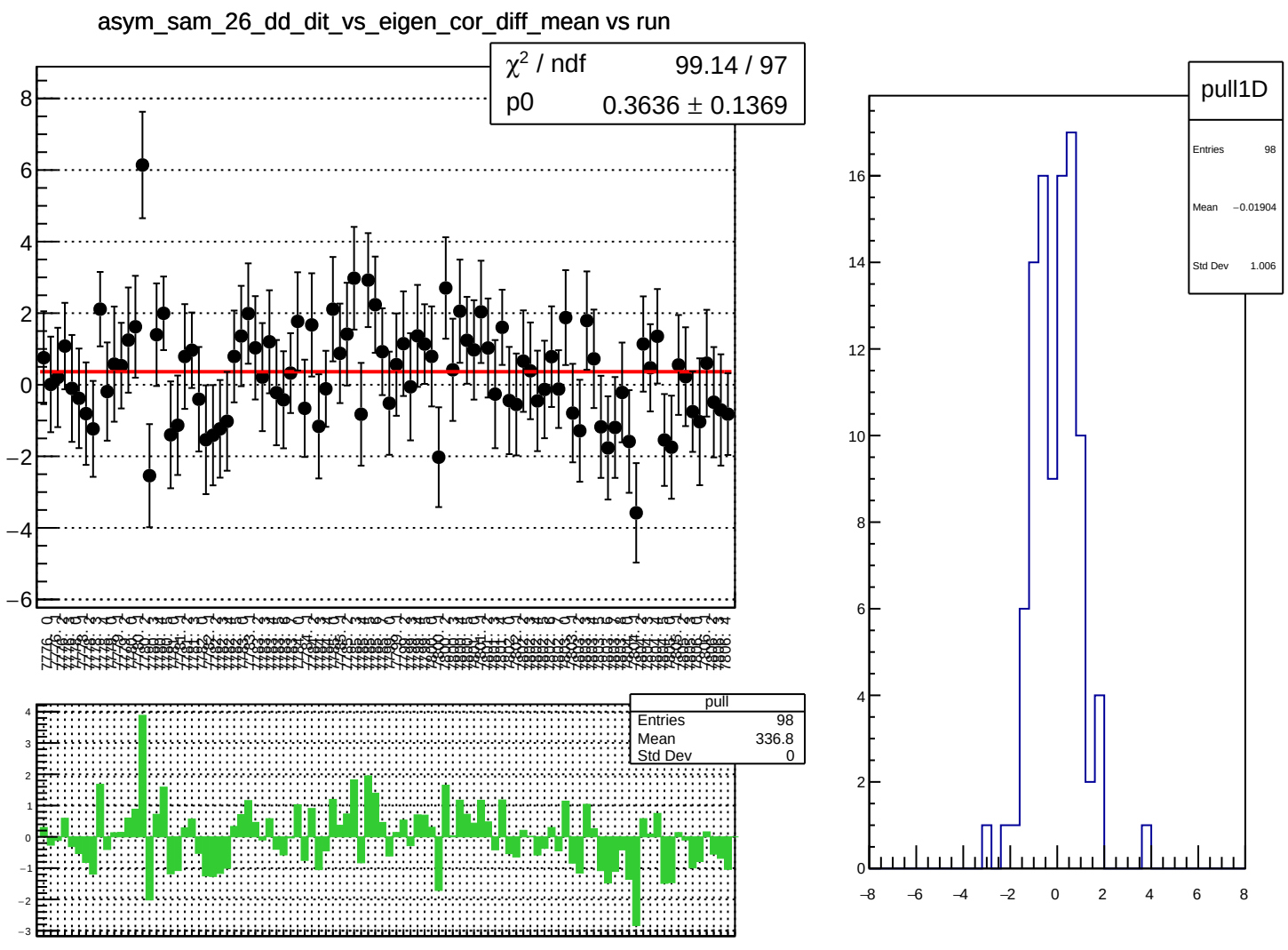

asym_sam_26_dd_rms vs run
χ^2 / ndf 6850 / 97
p0 3753 ± 2.697
4800
4600
4400
4200
4000
3800
3600
3400
3200

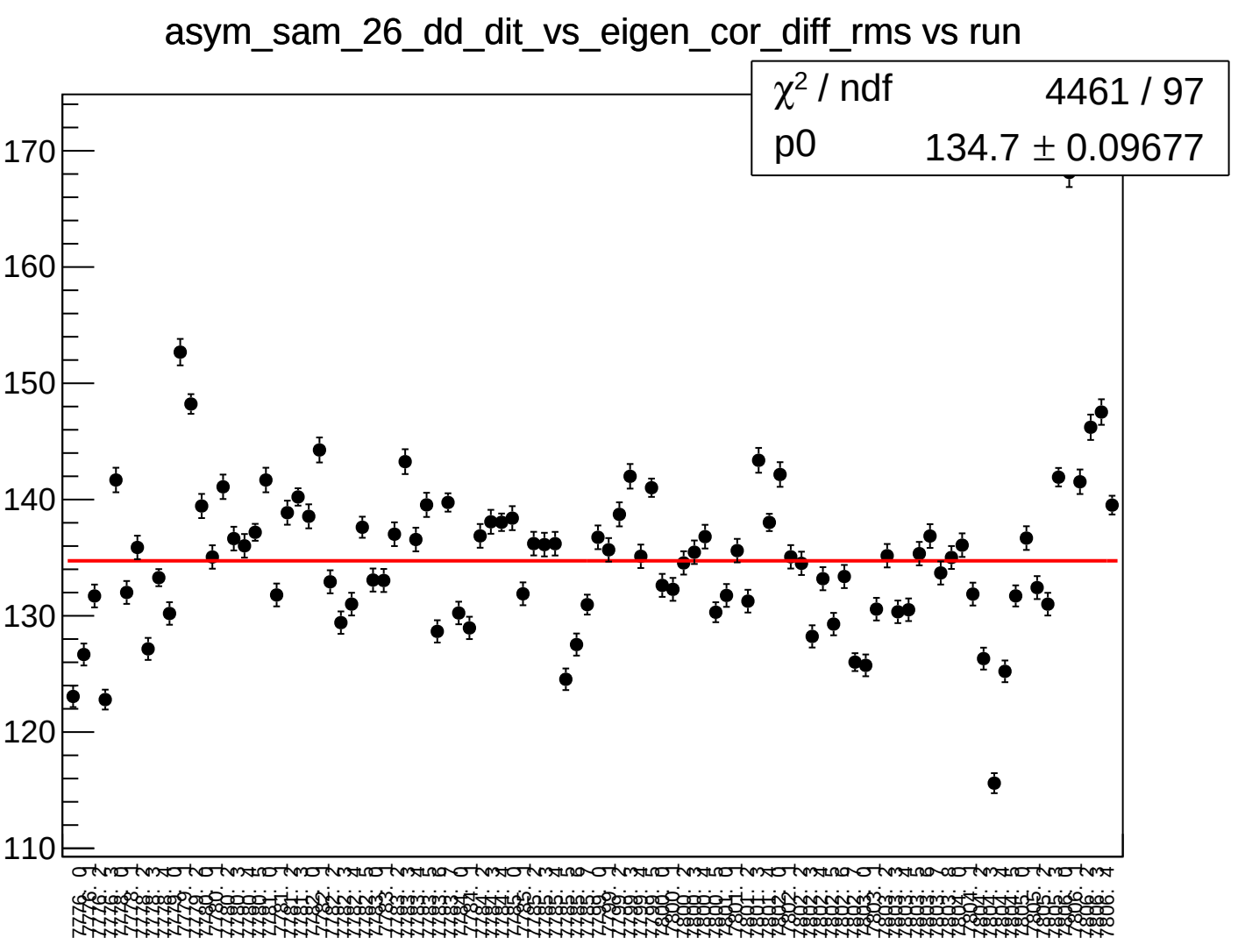

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.54 / 97
p0 5.538e–13 ± 6.4e–13
0.002
0.0015
0.001
0.0005
0
–0.0005
–0.001
pull
Entries 98
Mean 51.73
Std Dev 23.06
3
2
1
0
–1
–2
pull1D
Entries 98
Mean 0.1317
Std Dev 0.9082
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

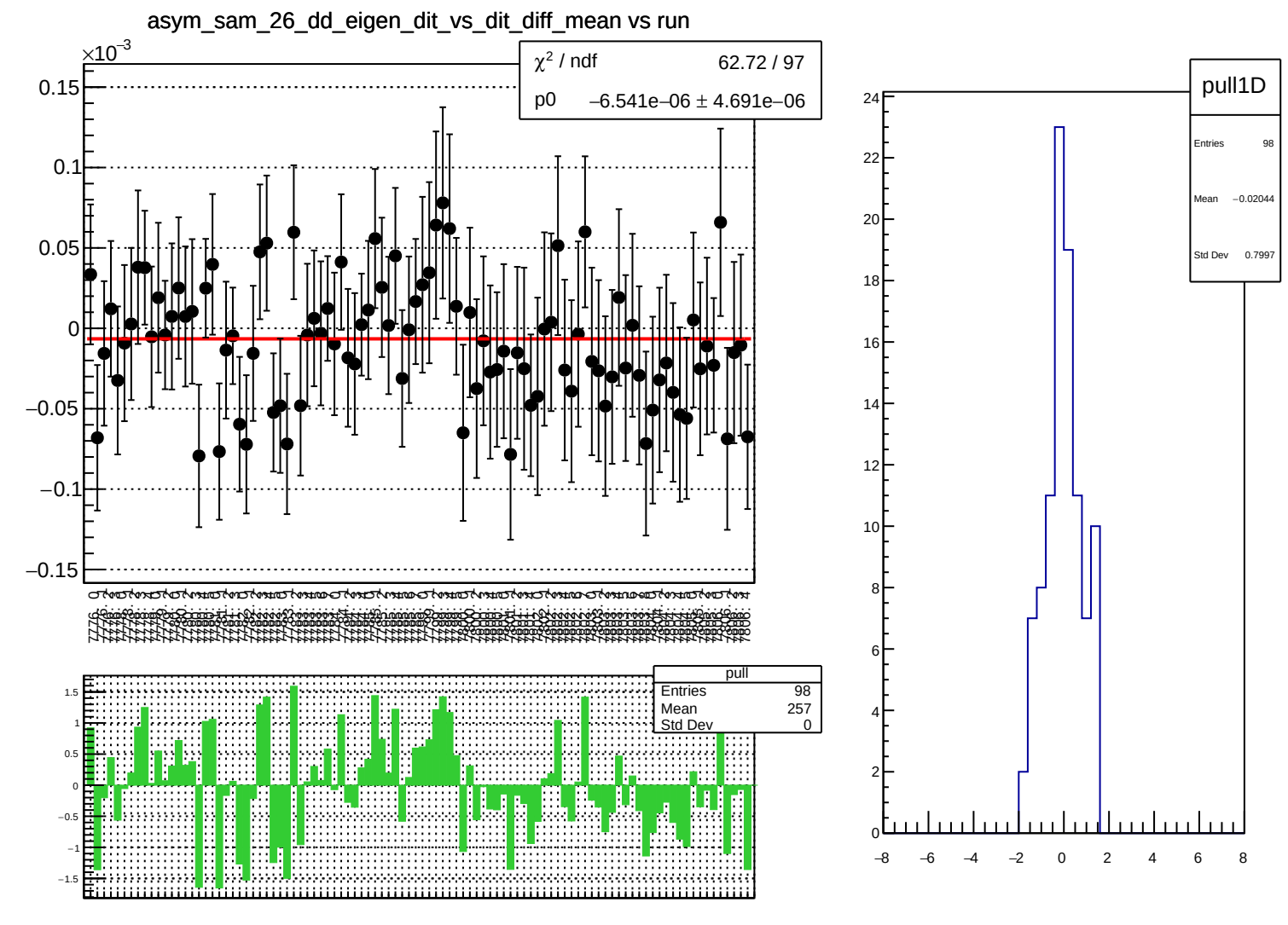

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.998e+05 / 97
p0 4.622e−10 ± 4.526e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

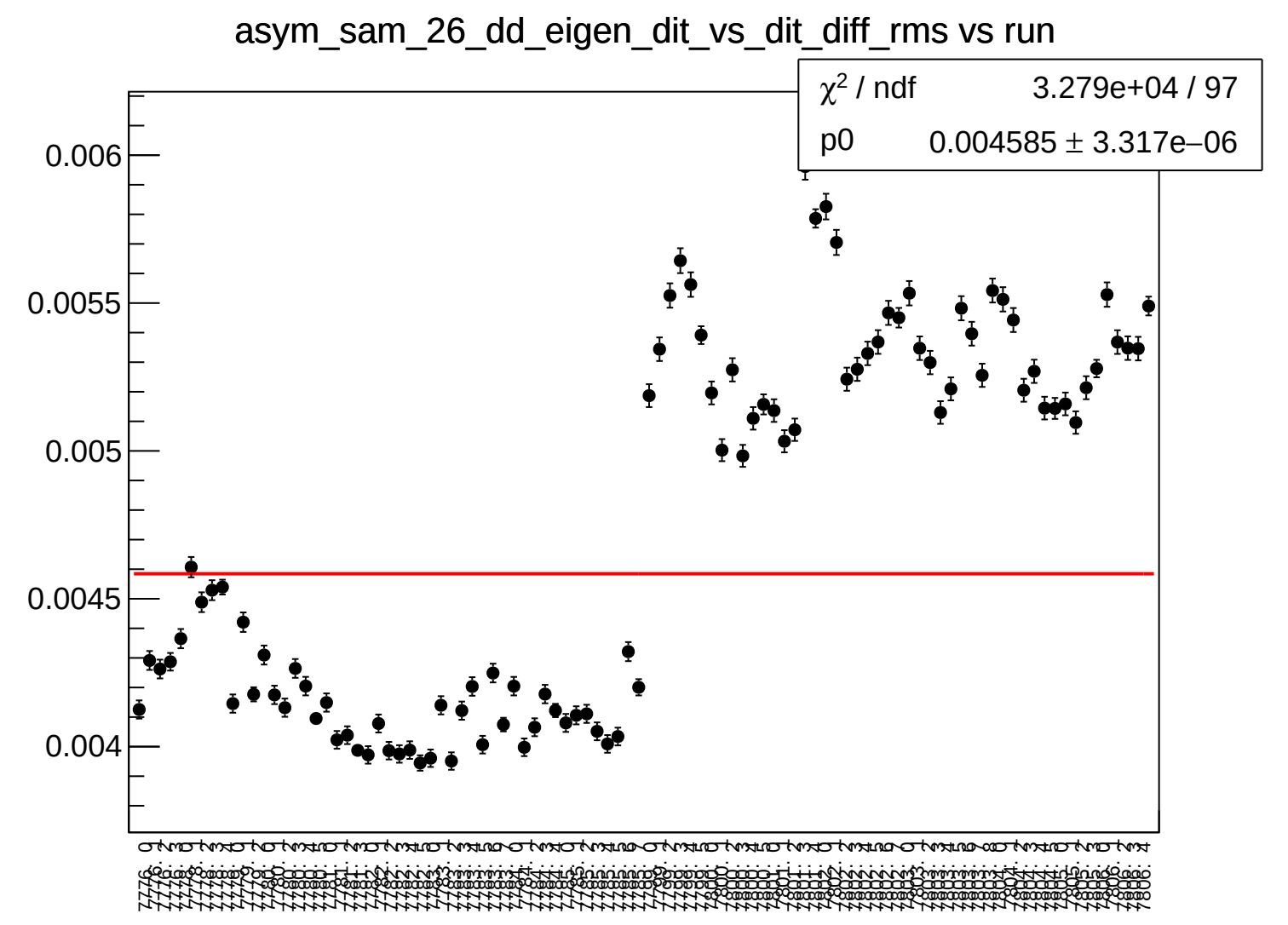

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.14 / 97
p0 0.3636 ± 0.1369
pull
Entries 98
Mean 336.8
Std Dev 0
pull1D
Entries 98
Mean −0.01904
Std Dev 1.006

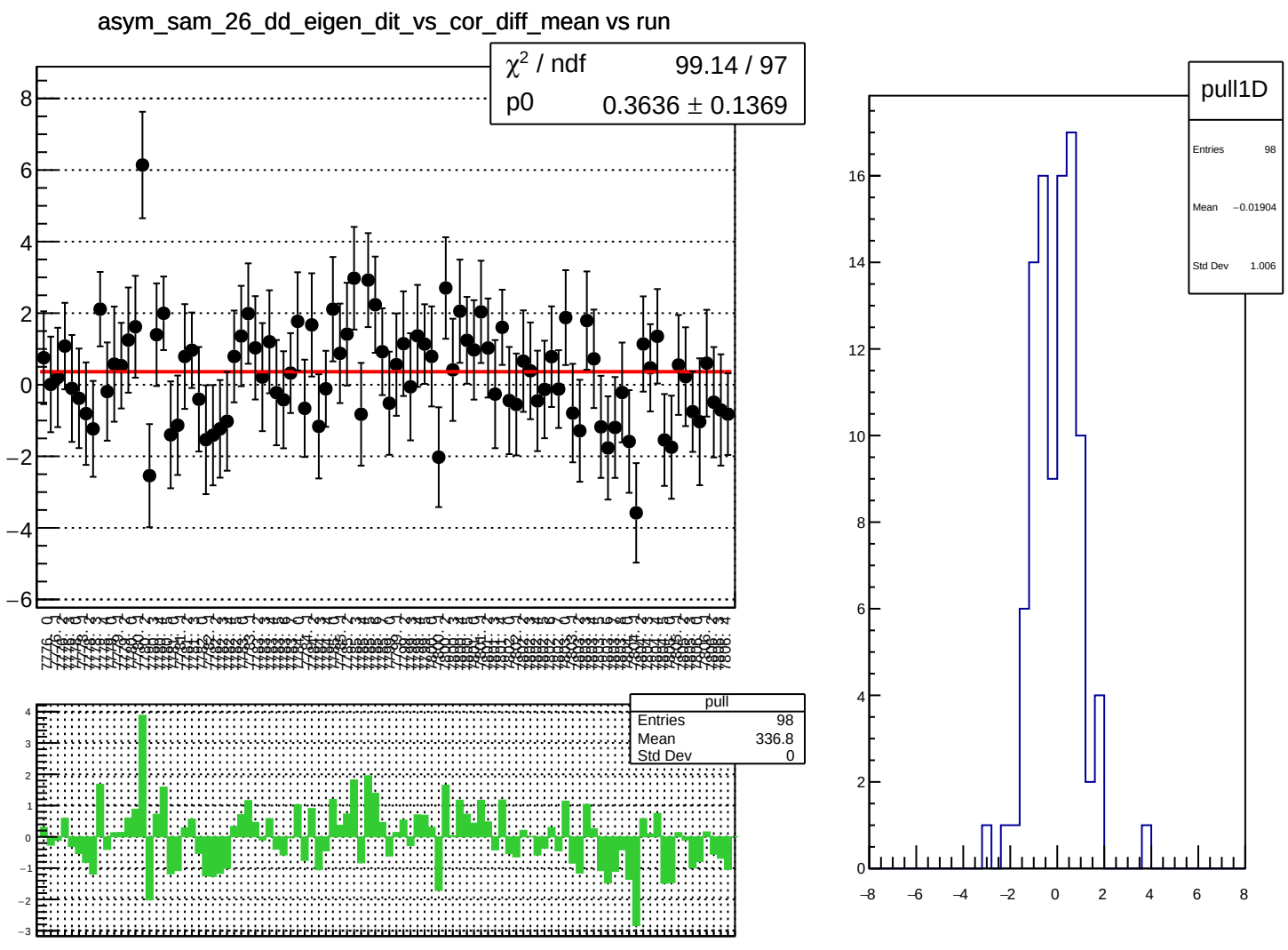

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4461 / 97
p0 134.7 ± 0.09677
170
160
150
140
130
120
110

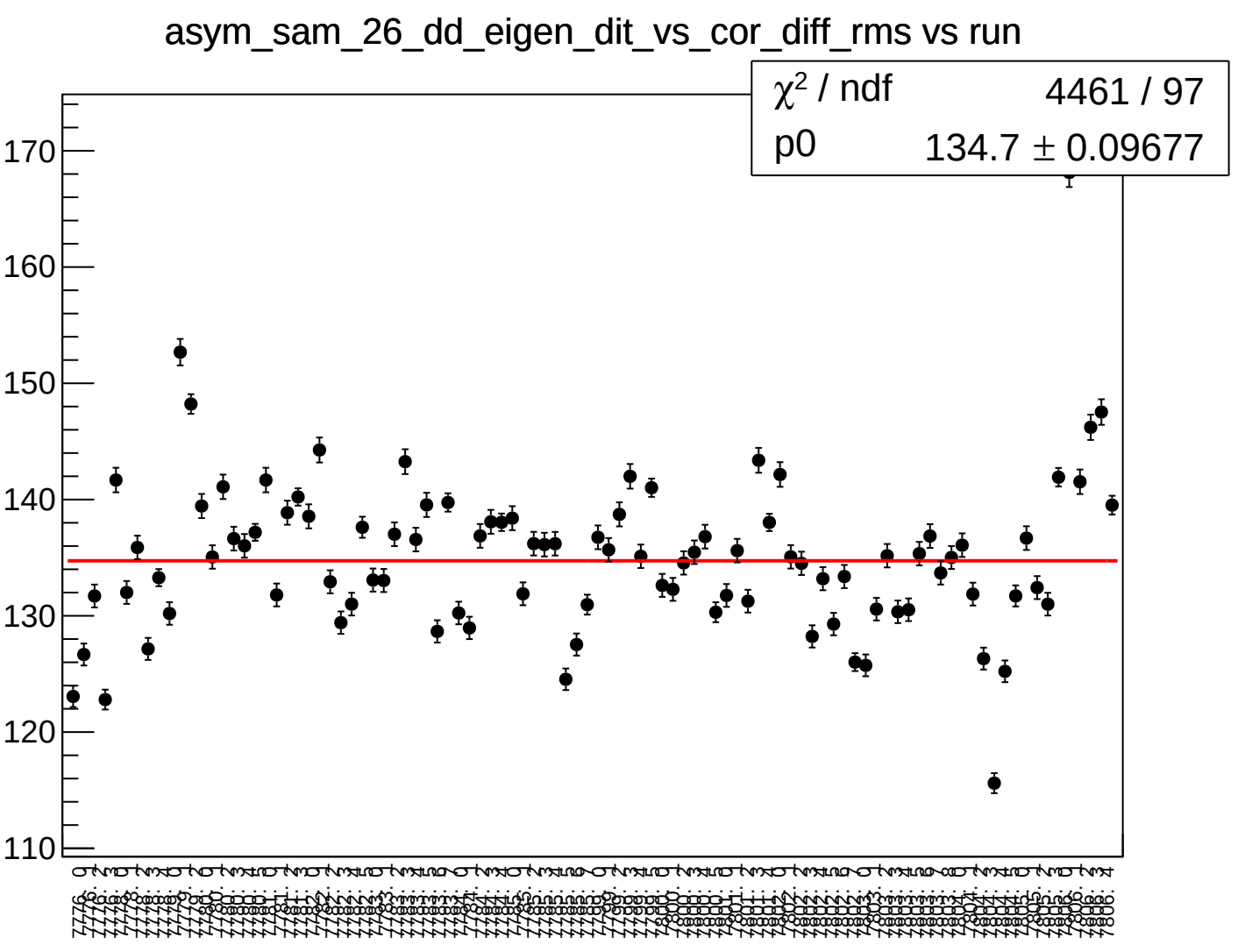

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.14 / 97
p0 0.3636 ± 0.1369
pull
Entries 98
Mean 336.8
Std Dev 0
pull1D
Entries 98
Mean −0.01904
Std Dev 1.006

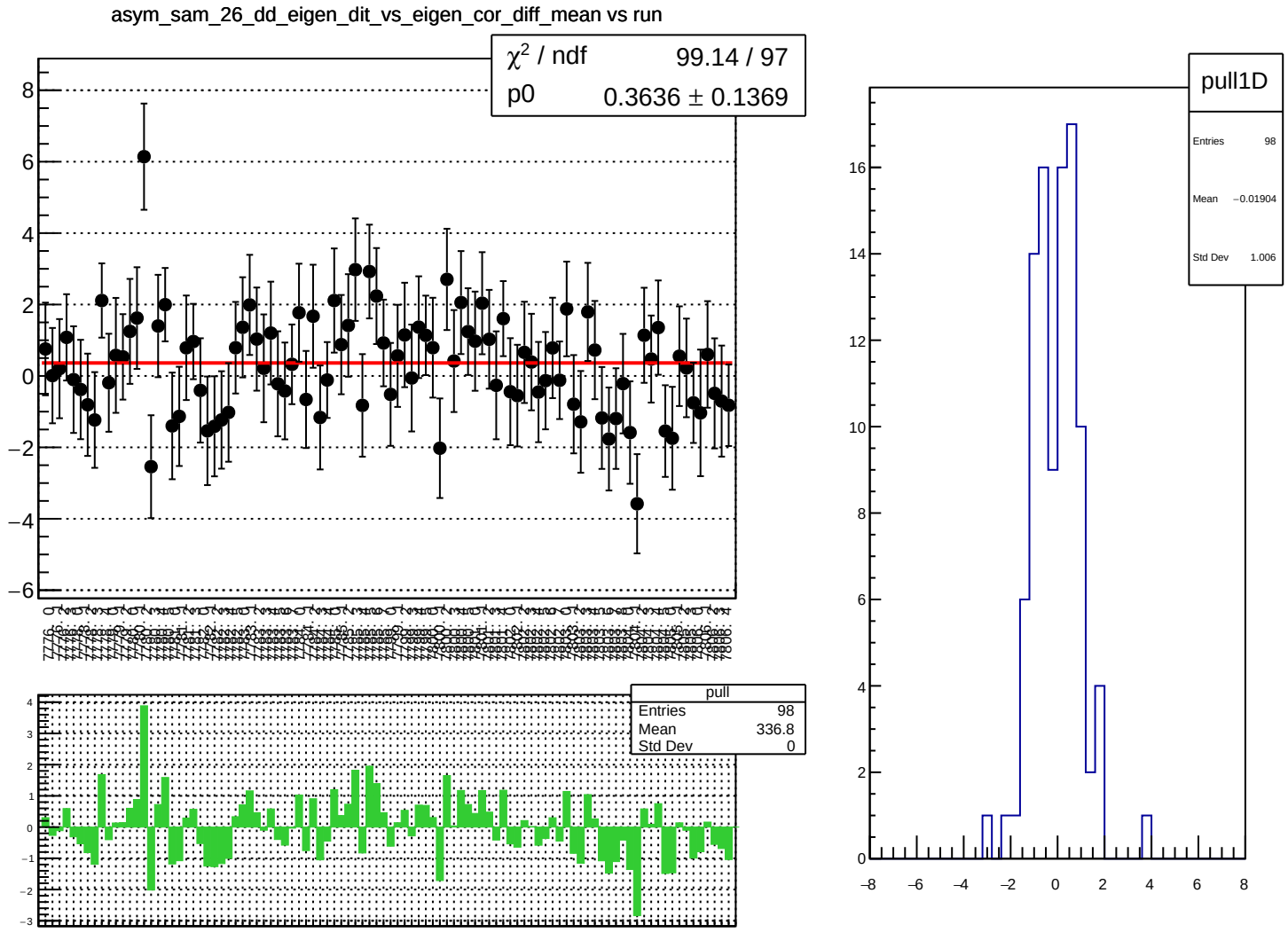

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4461 / 97
p0 134.7 ± 0.09677
170
160
150
140
130
120
110

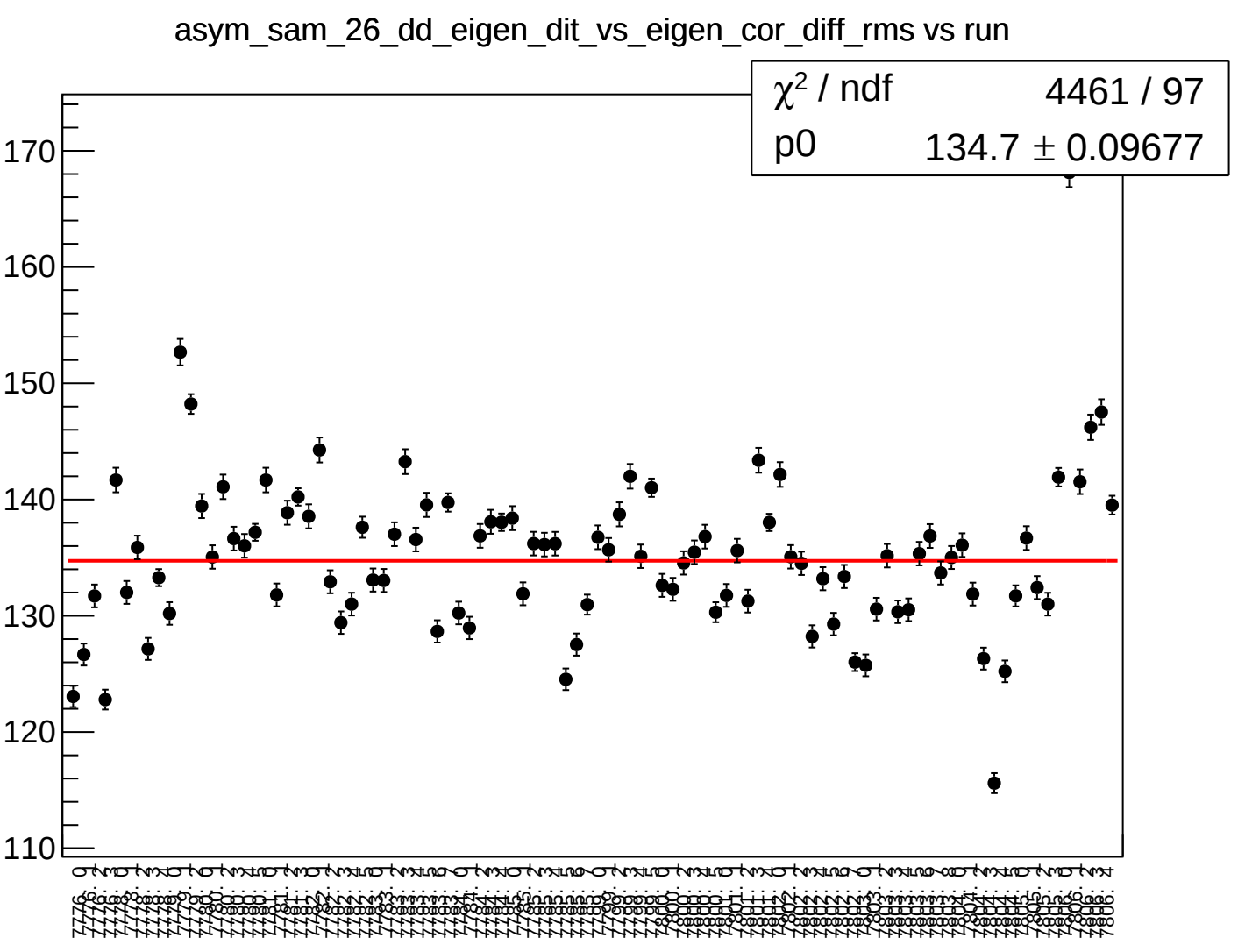

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 62.72 / 97
p0 −6.541e−06 ± 4.691e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 98
Mean 257
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean −0.02044
Std Dev 0.7997
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

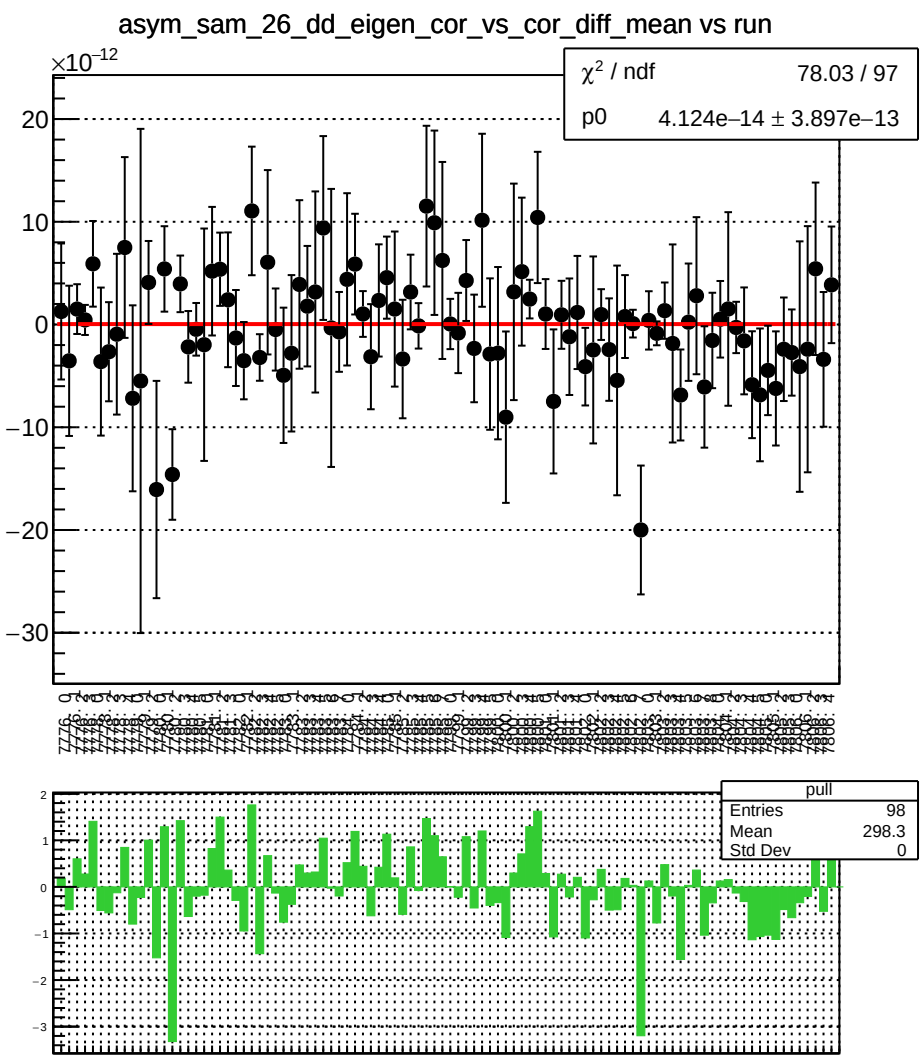

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.279e+04 / 97
p0 0.004585 ± 3.317e−06
0.006
0.0055
0.005
0.0045
0.004

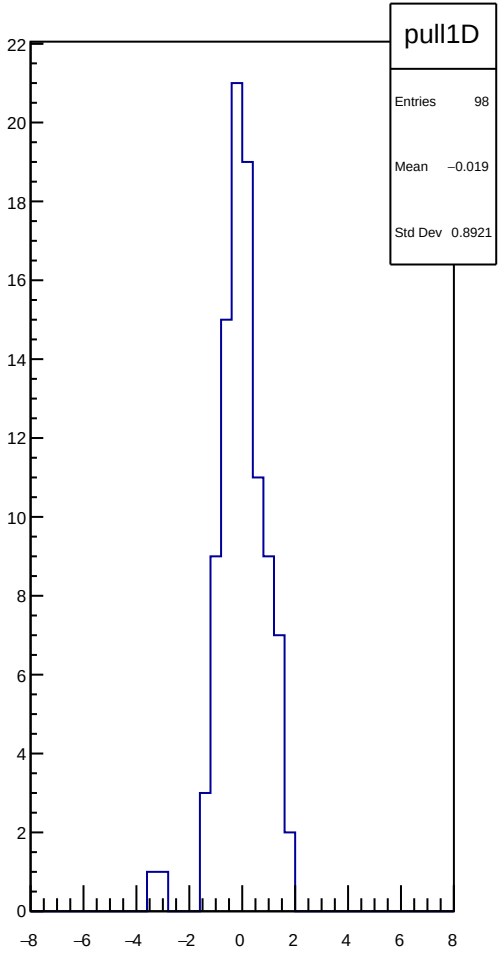

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.14 / 97
p0 0.3636 ± 0.1369
pull
Entries 98
Mean 336.8
Std Dev 0
pull1D
Entries 98
Mean −0.01904
Std Dev 1.006

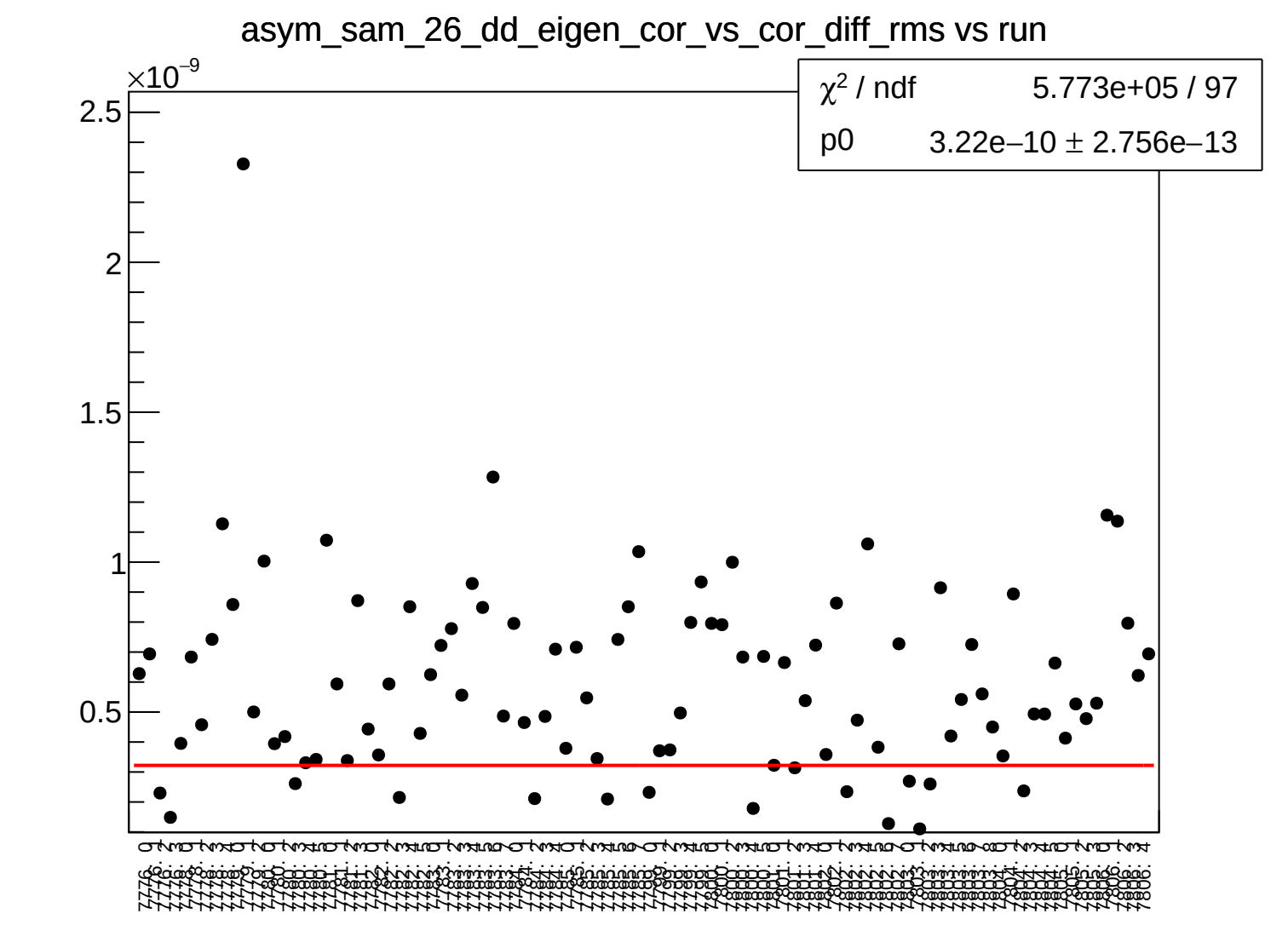

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4461 / 97
p0 134.7 ± 0.09677
170
160
150
140
130
120
110

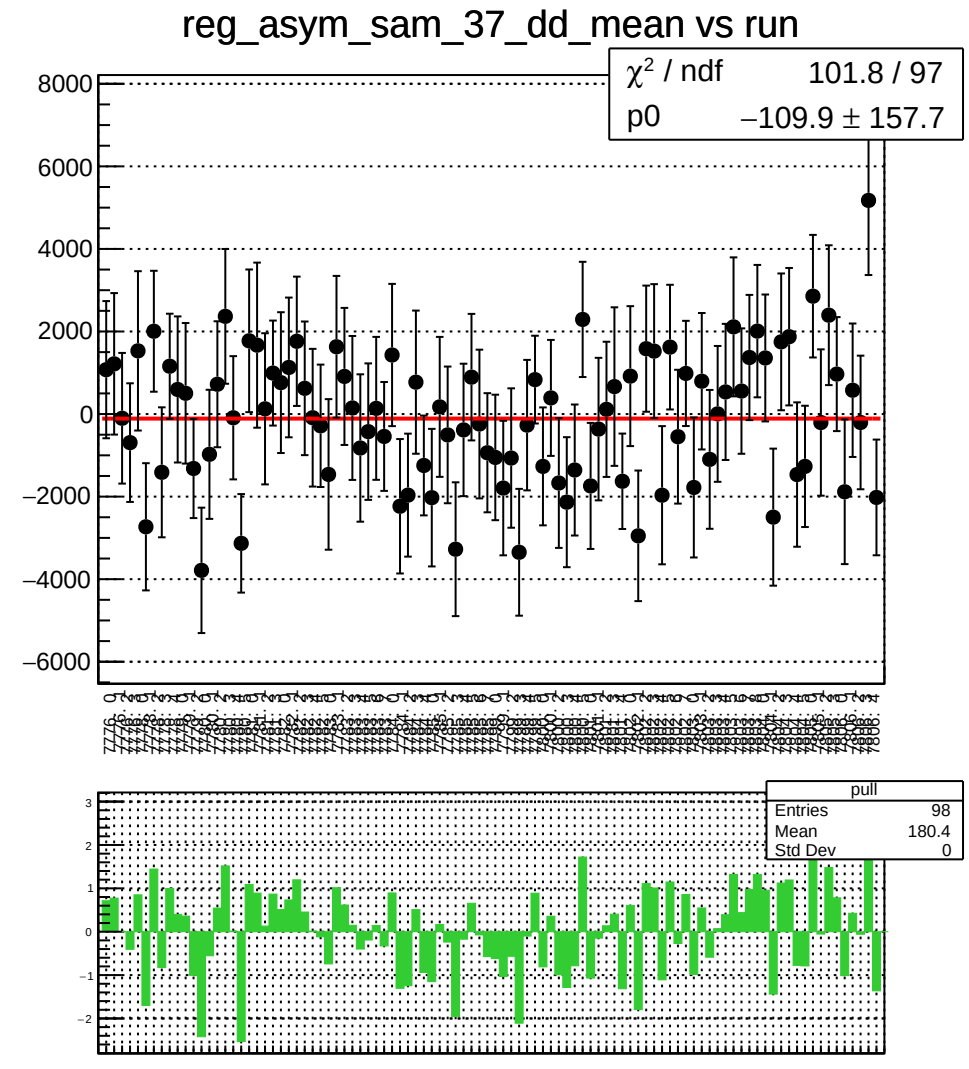

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.14 / 97
p0 0.3636 ± 0.1369
pull
Entries 98
Mean 336.8
Std Dev 0
pull1D
Entries 98
Mean −0.01904
Std Dev 1.006

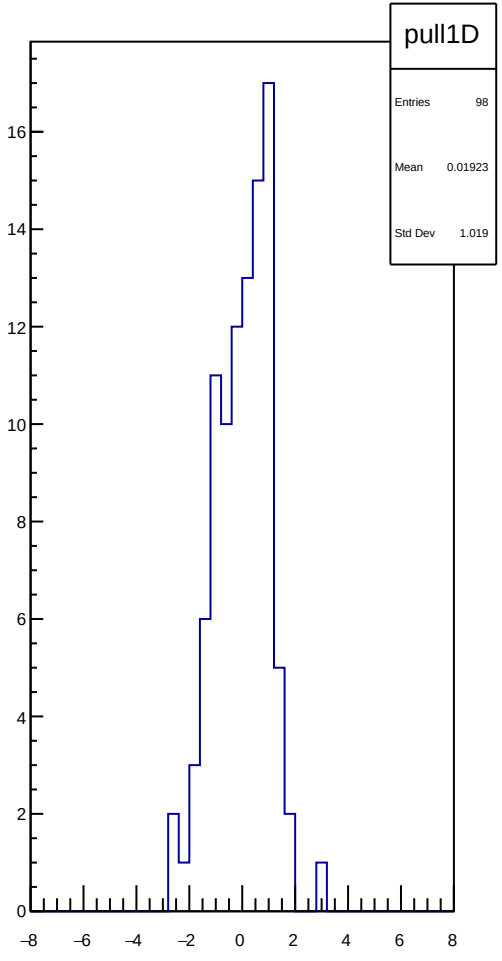

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4461 / 97
p0 134.7 ± 0.09677
170
160
150
140
130
120
110

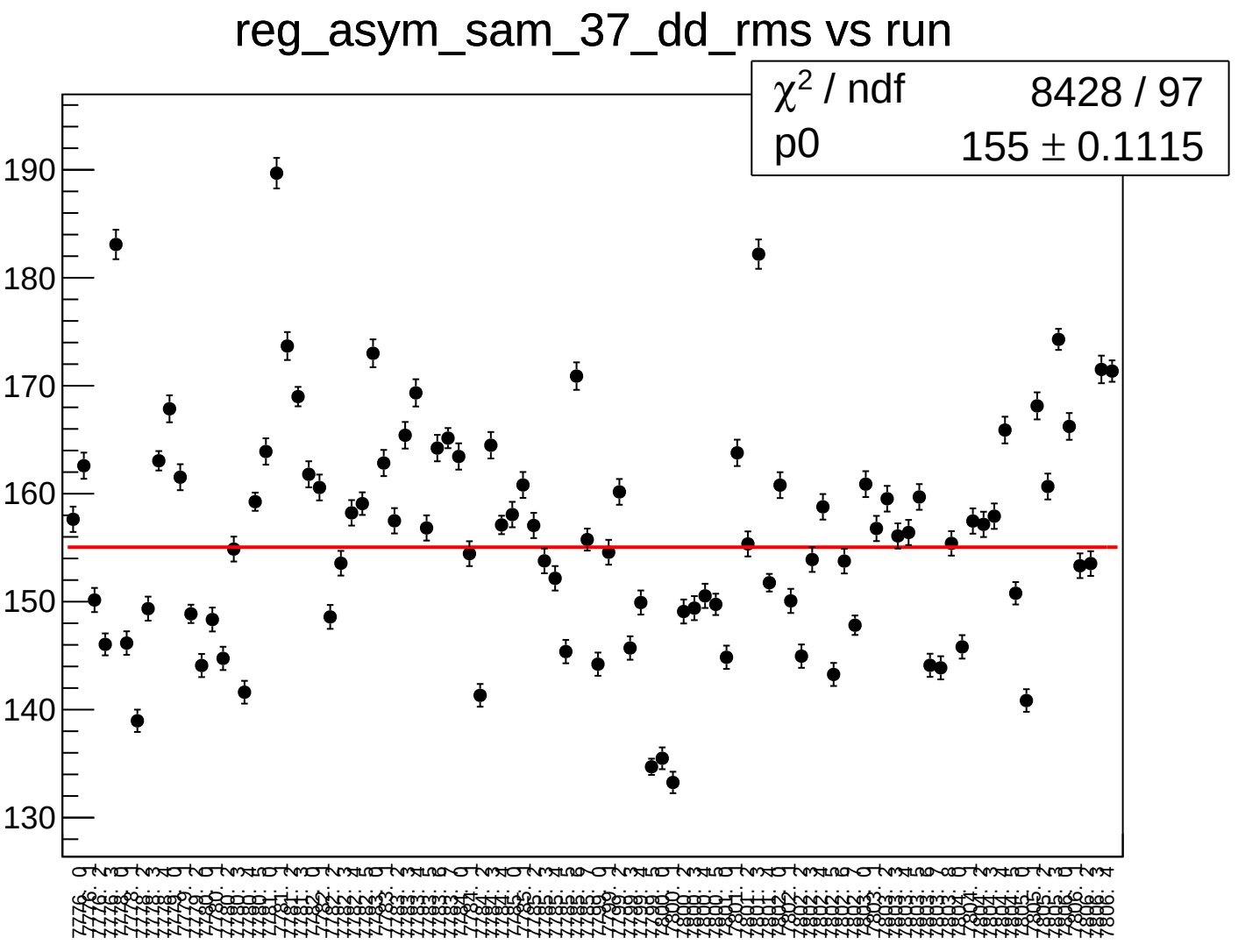

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.03 / 97
p0 4.124e−14 ± 3.897e−13
20
10
0
−10
−20
−30
pull
Entries 98
Mean 298.3
Std Dev 0
2
1
0
−1
−2
−3

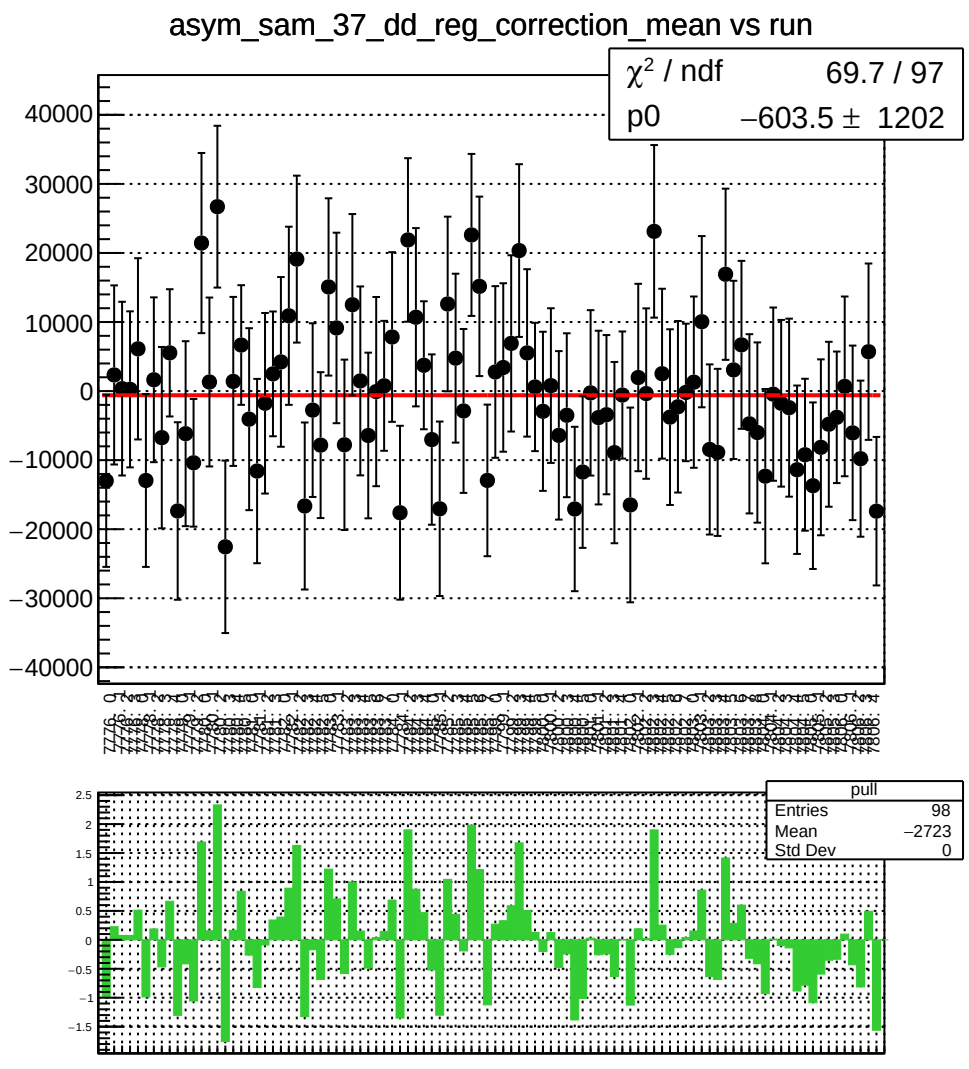

pull1D
Entries 98
Mean −0.019
Std Dev 0.8921
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

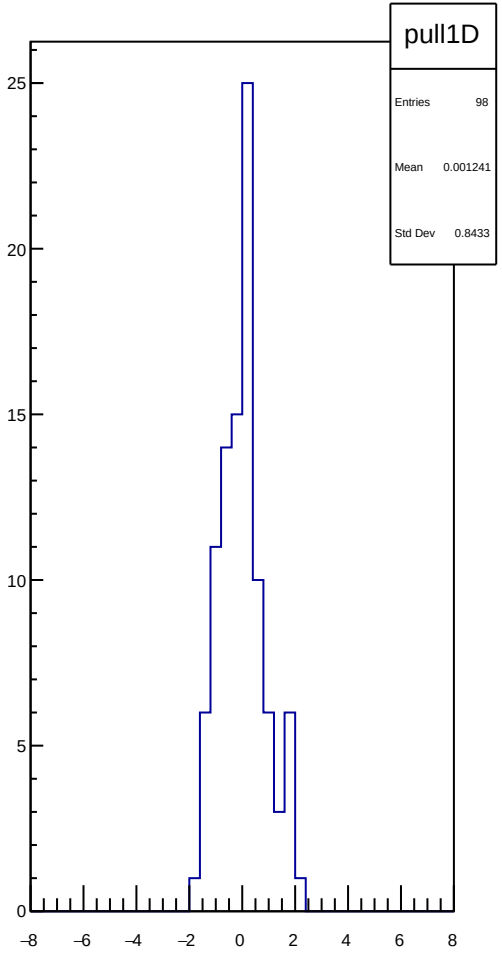

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 5.773e+05 / 97
p0 3.22e−10 ± 2.756e−13

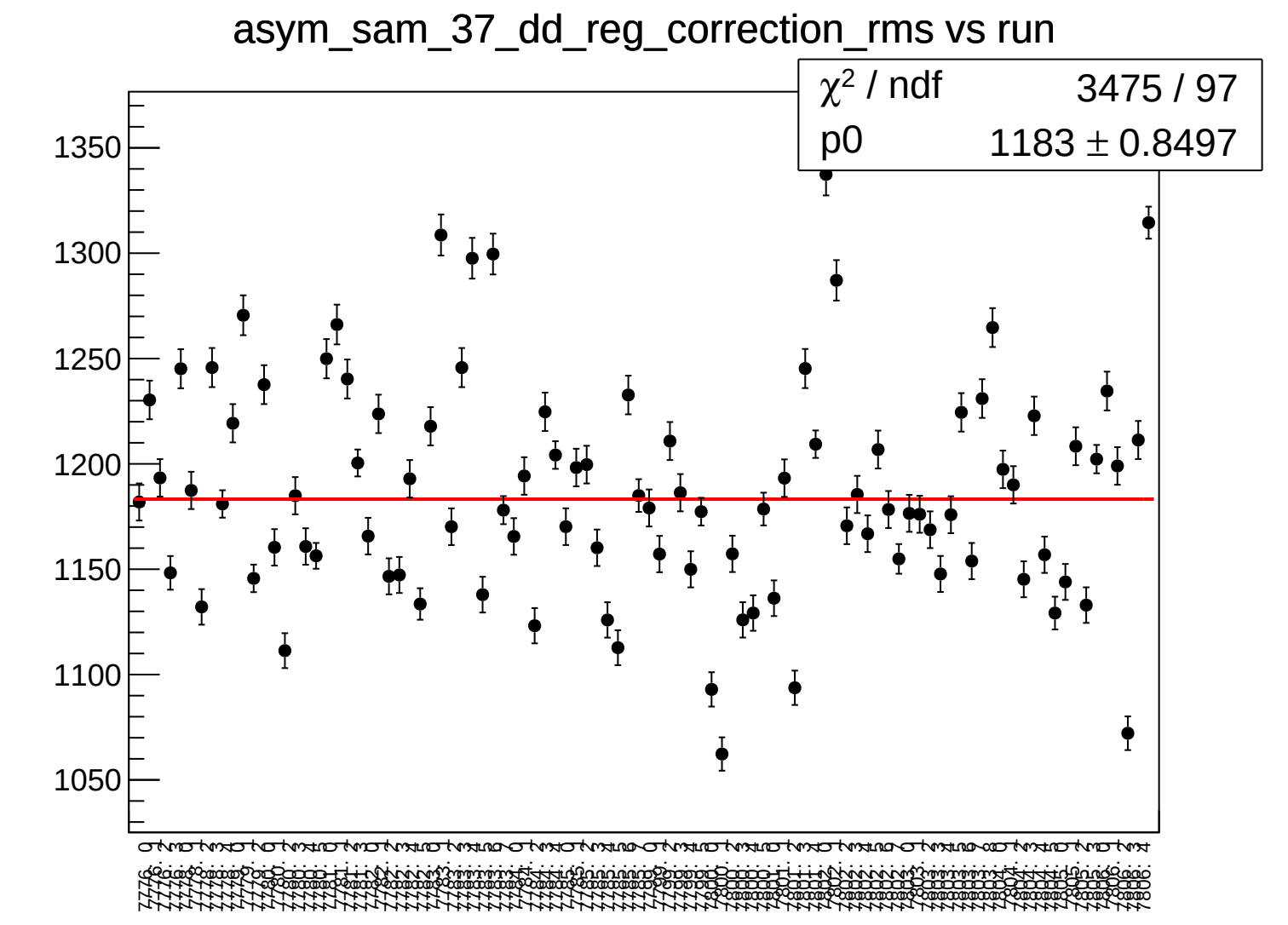

reg_asym_sam_37_dd_mean vs run
χ² / ndf 101.8 / 97
p0 −109.9 ± 157.7
pull
Entries 98
Mean 180.4
Std Dev 0

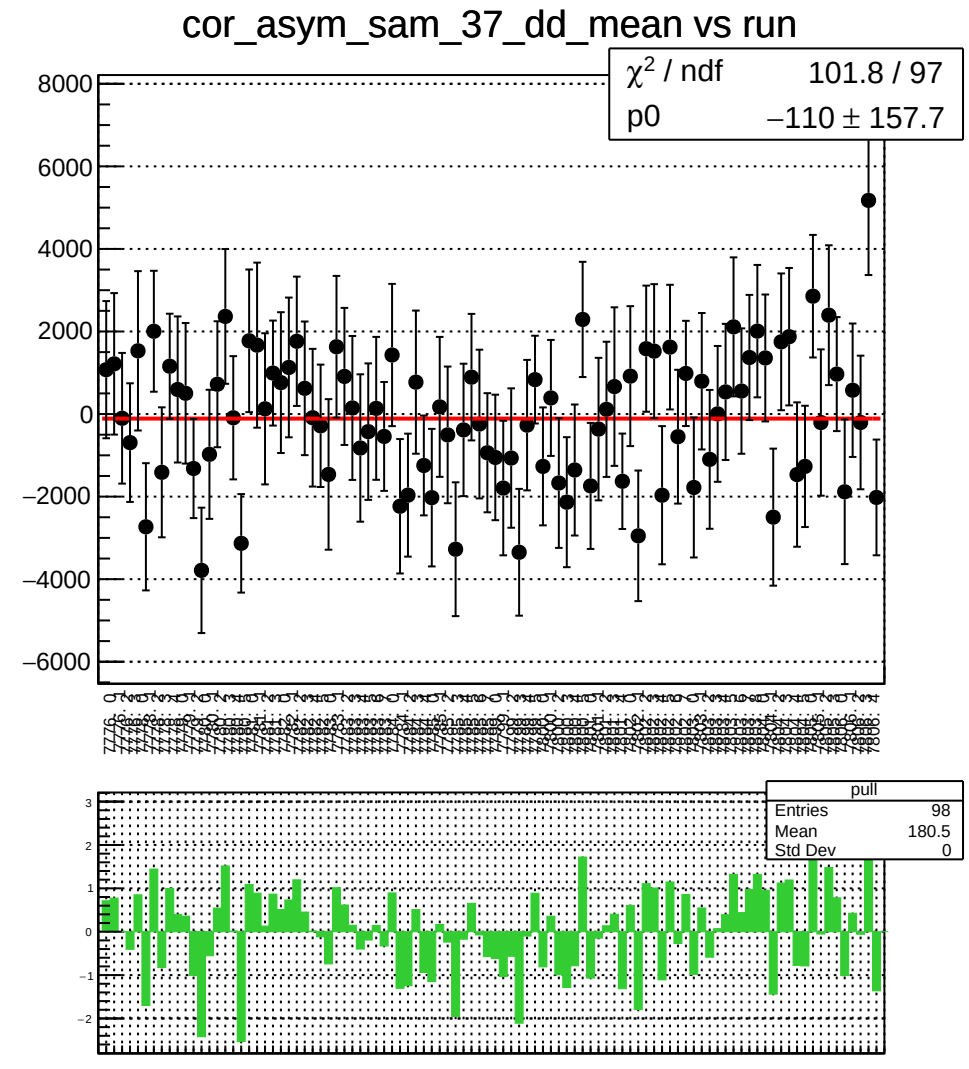

pull1D
Entries 98
Mean 0.01923
Std Dev 1.019

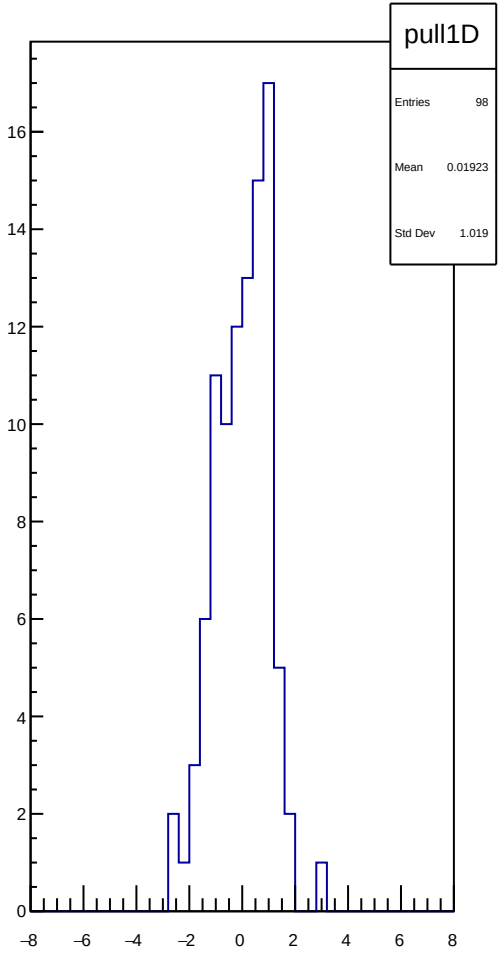

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 8428 / 97
p0 155 ± 0.1115
190
180
170
160
150
140
130

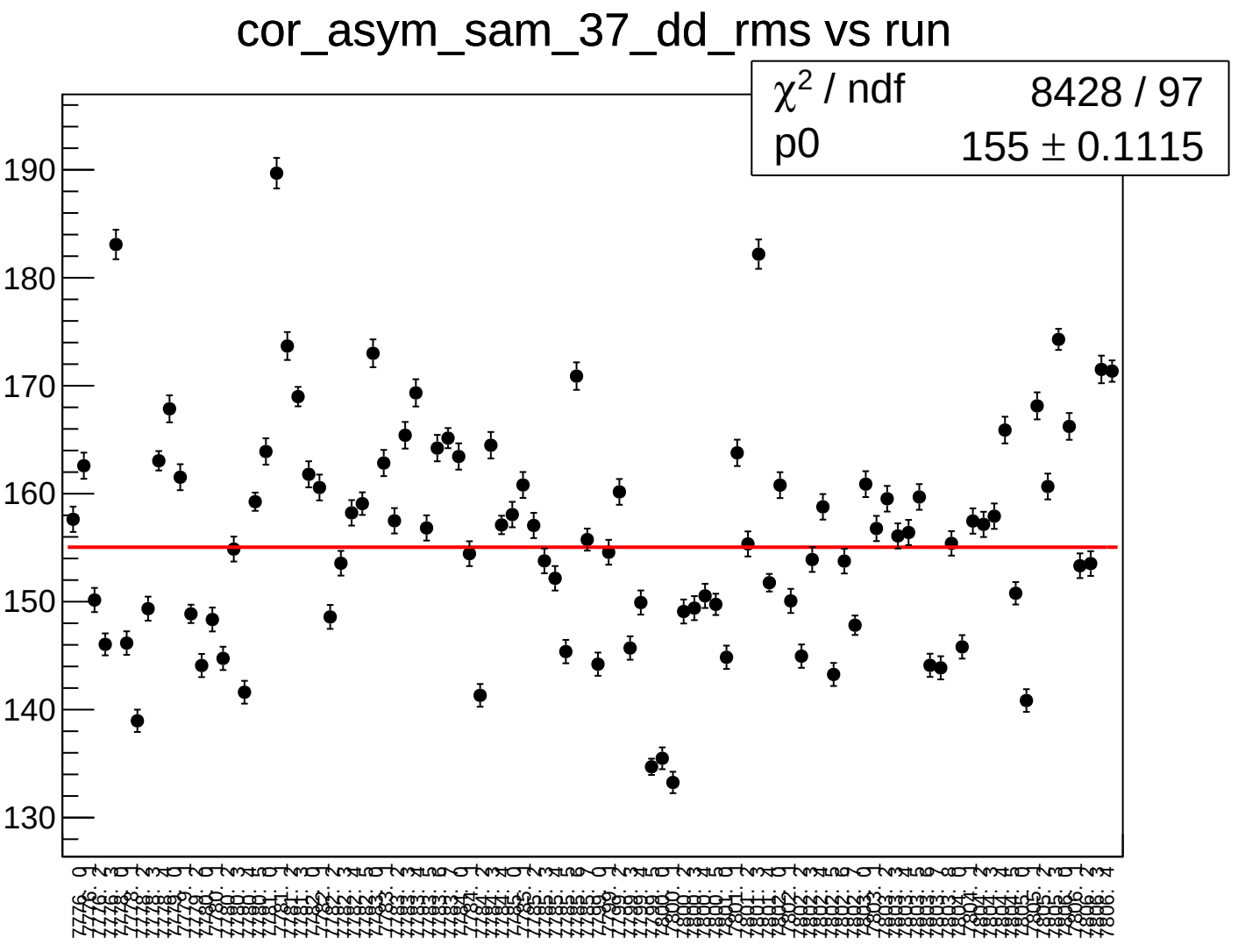

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 69.7 / 97
p0 −603.5 ± 1202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean −2723
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

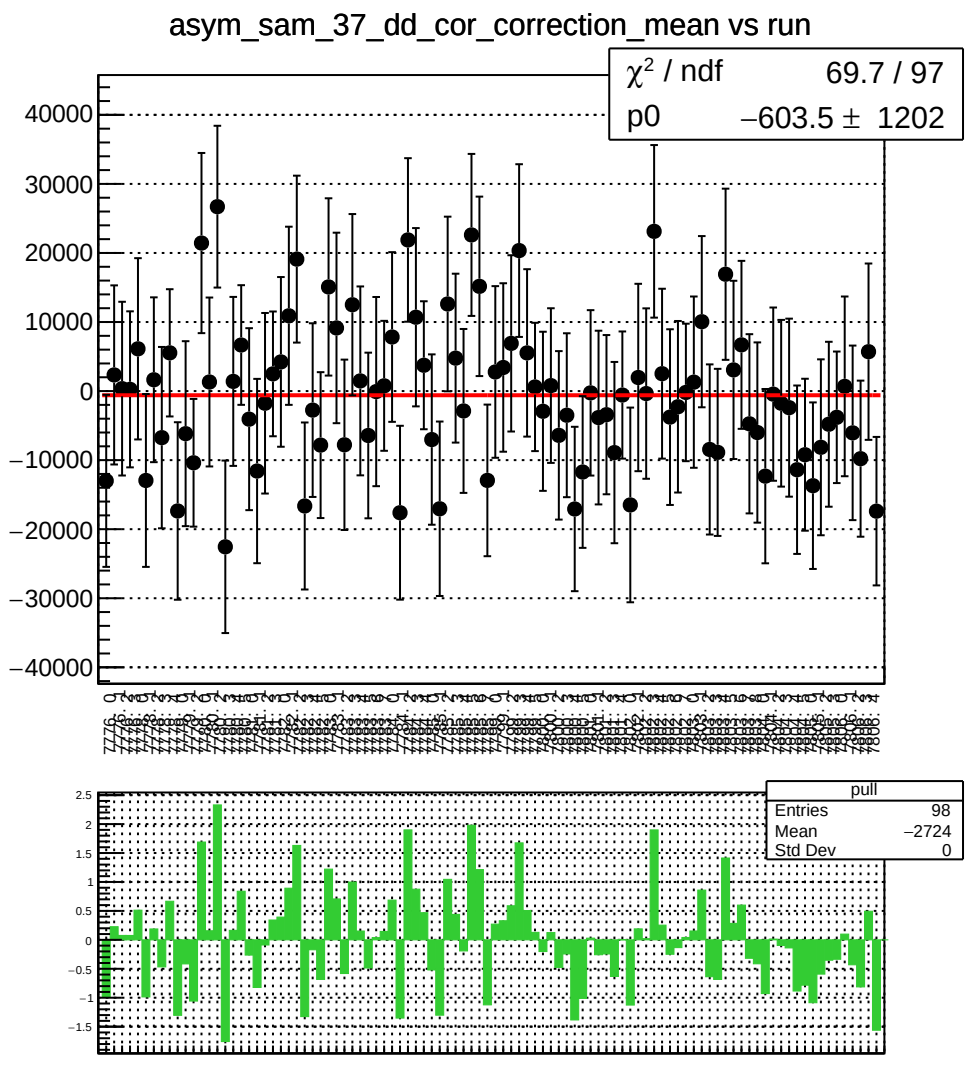

pull1D
Entries 98
Mean 0.001241
Std Dev 0.8433
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

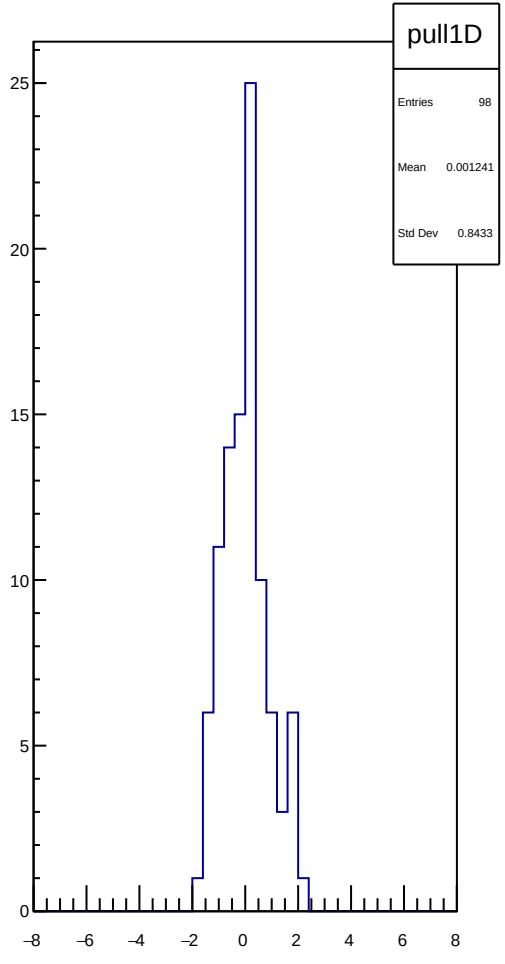

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 3475 / 97
p0 1183 ± 0.8497
1350
1300
1250
1200
1150
1100
1050

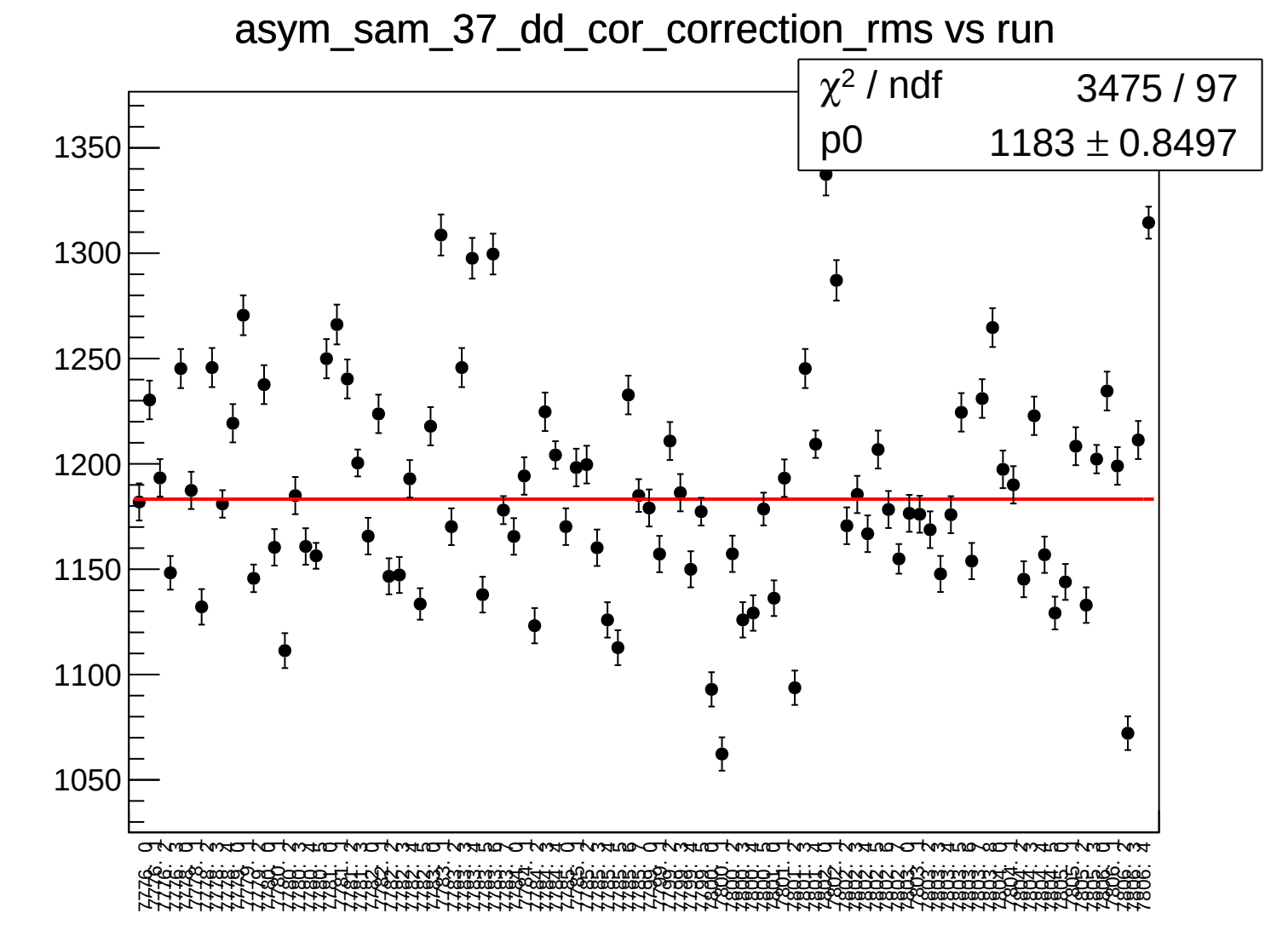

cor_asym_sam_37_dd_mean vs run
χ² / ndf 101.8 / 97
p0 −110 ± 157.7
pull
Entries 98
Mean 180.5
Std Dev 0

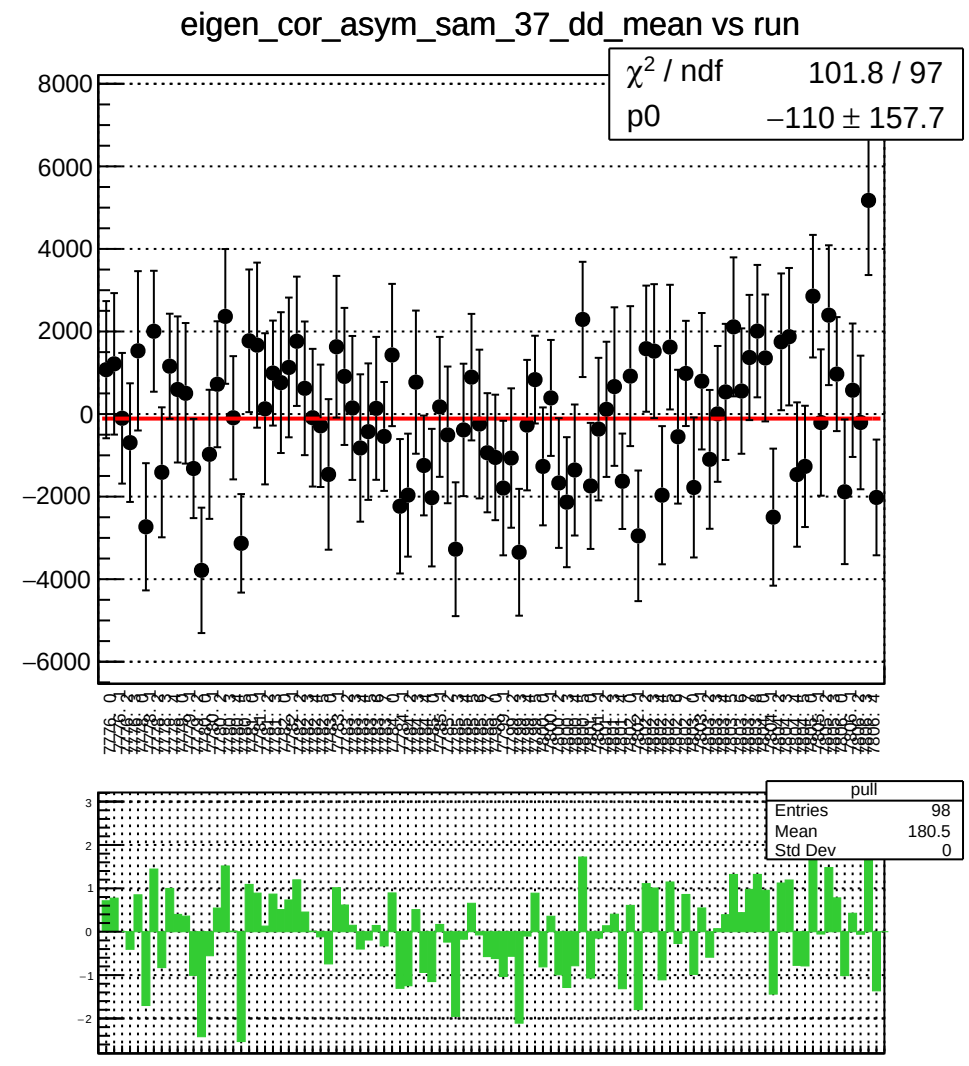

pull1D
Entries 98
Mean 0.01923
Std Dev 1.019

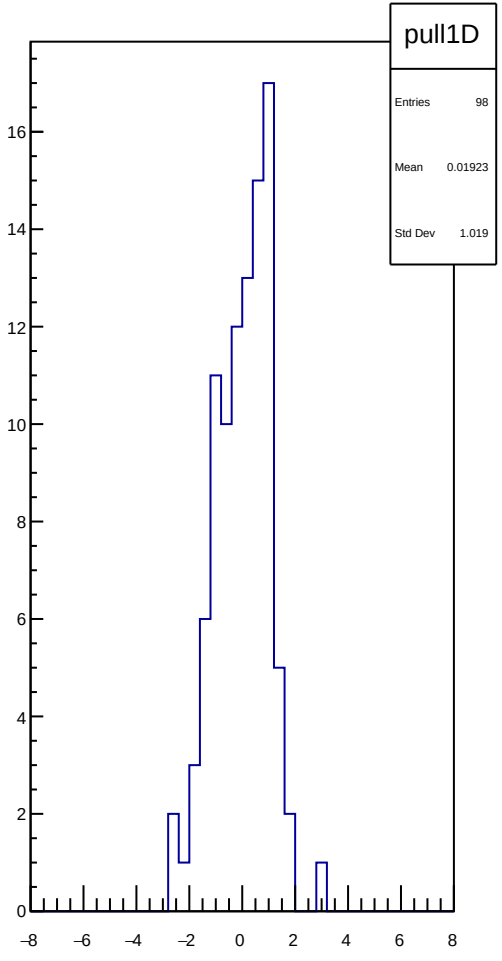

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 8428 / 97
p0 155 ± 0.1115
190
180
170
160
150
140
130

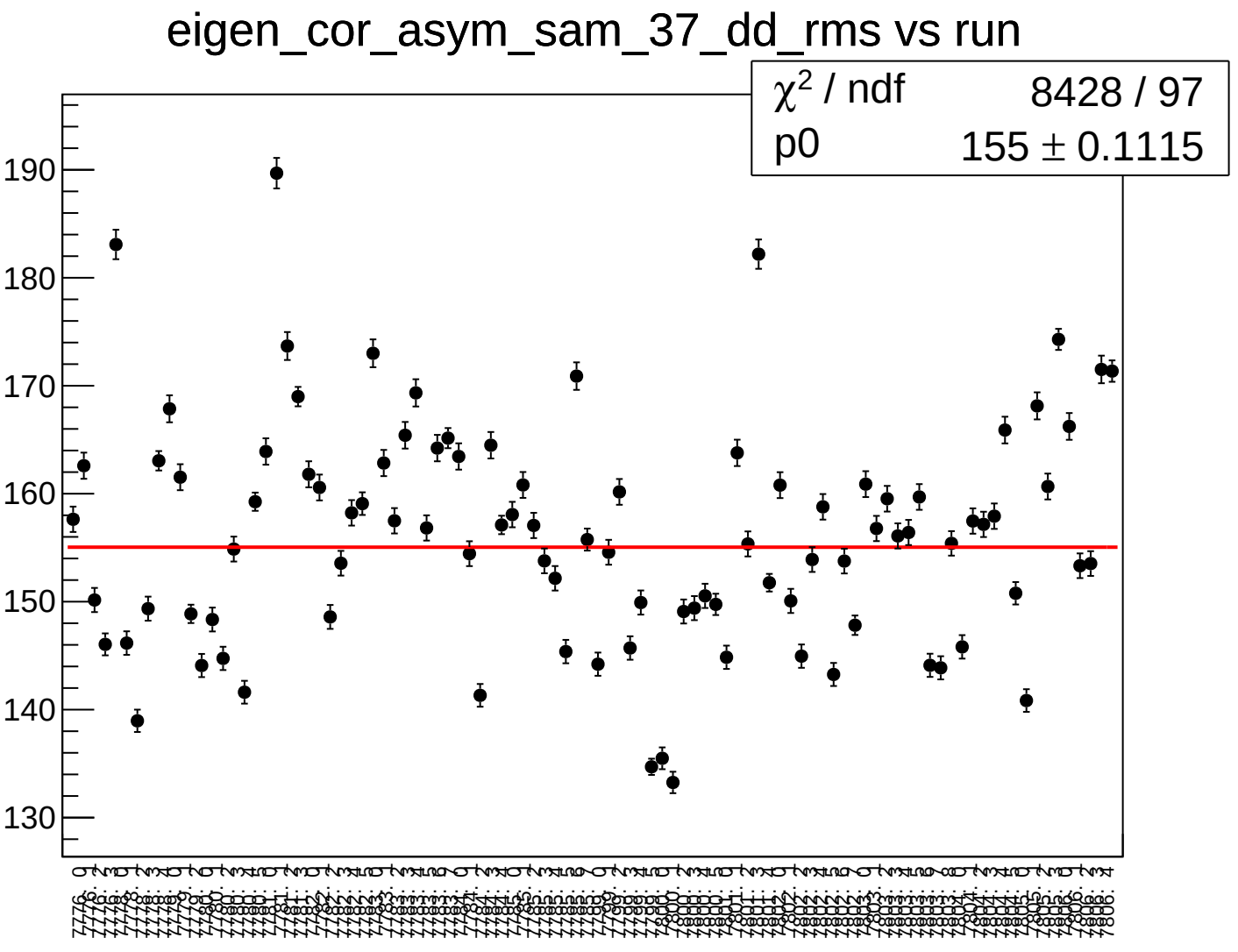

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 69.7 / 97
p0 −603.5 ± 1202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean −2724
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

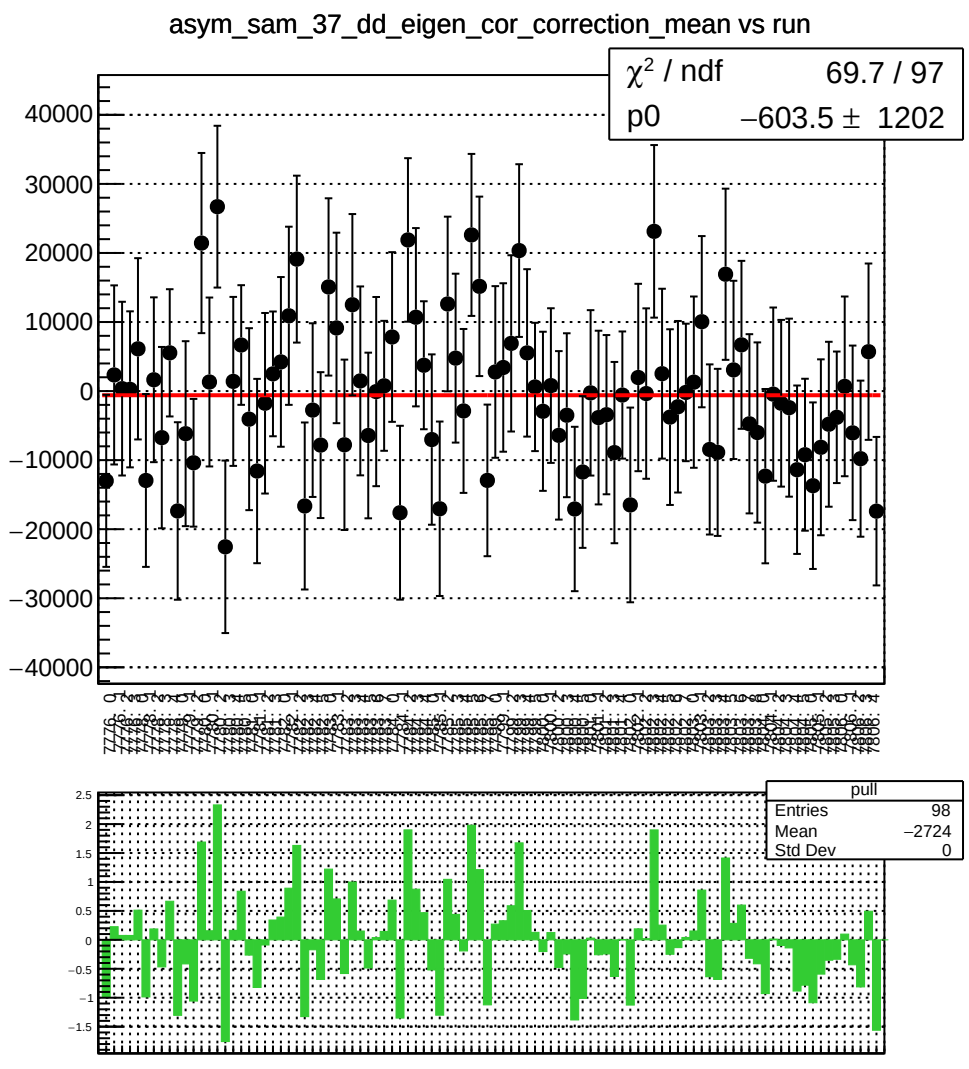

pull1D
Entries 98
Mean 0.001241
Std Dev 0.8433
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

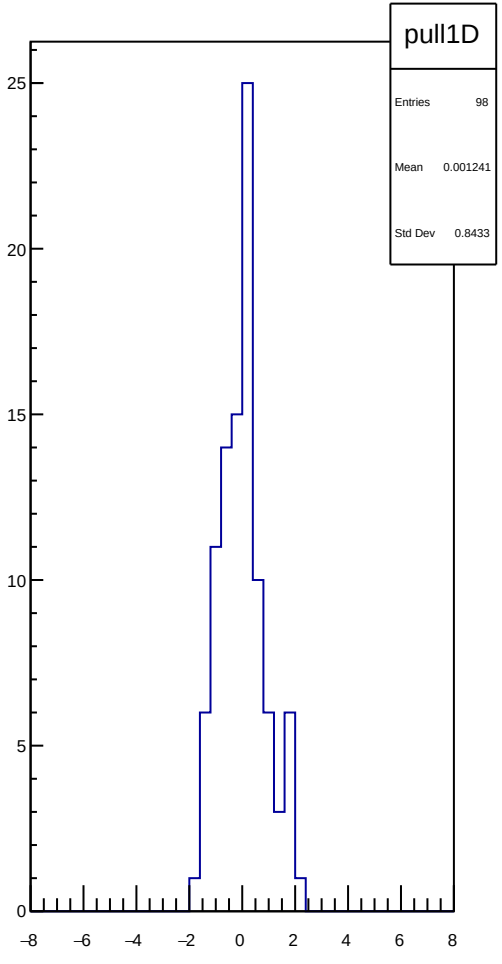

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 3475 / 97
p0 1183 ± 0.8497
1350
1300
1250
1200
1150
1100
1050

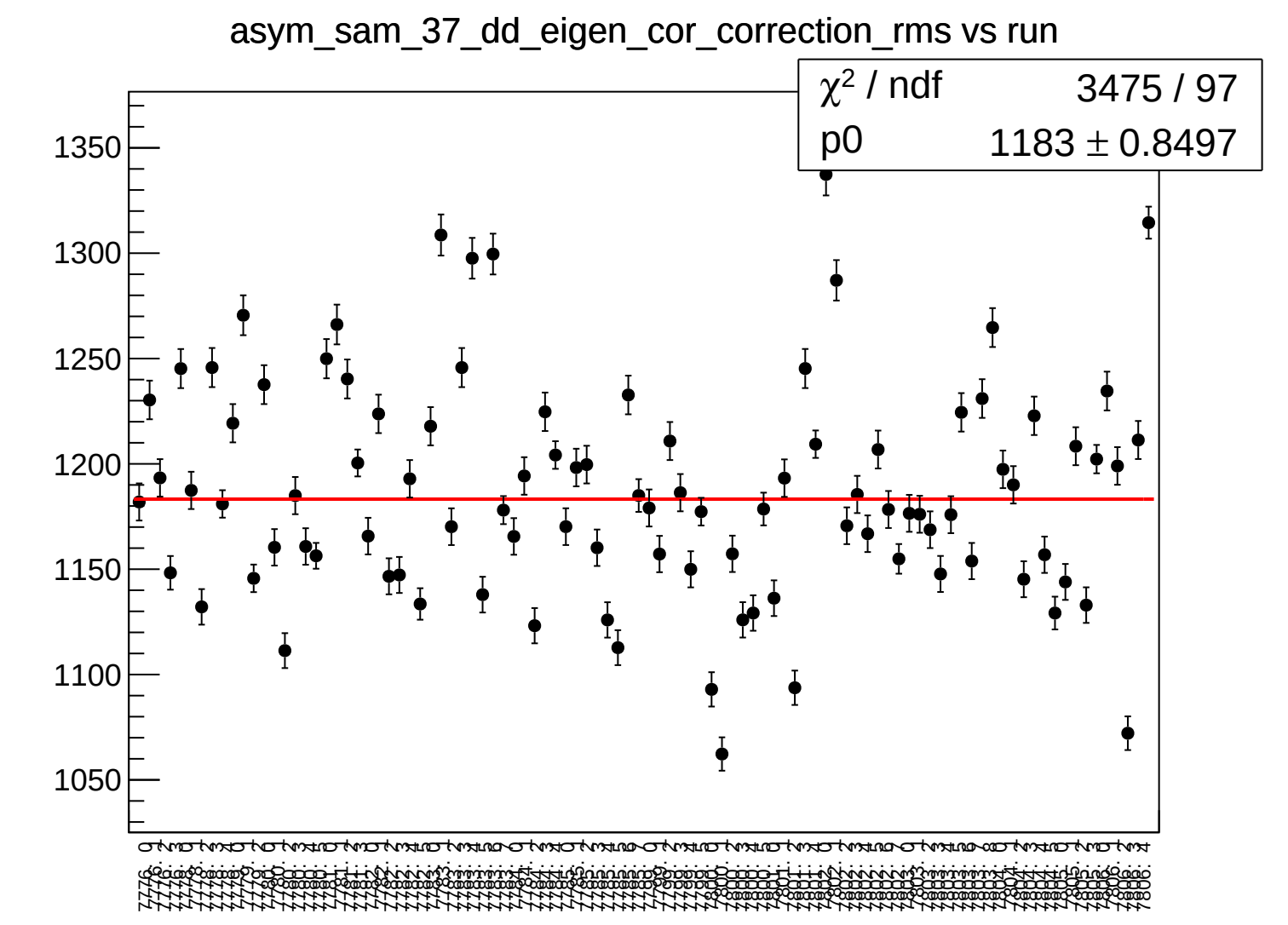

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 101.8 / 97
p0 −110 ± 157.7
pull
Entries 98
Mean 180.5
Std Dev 0

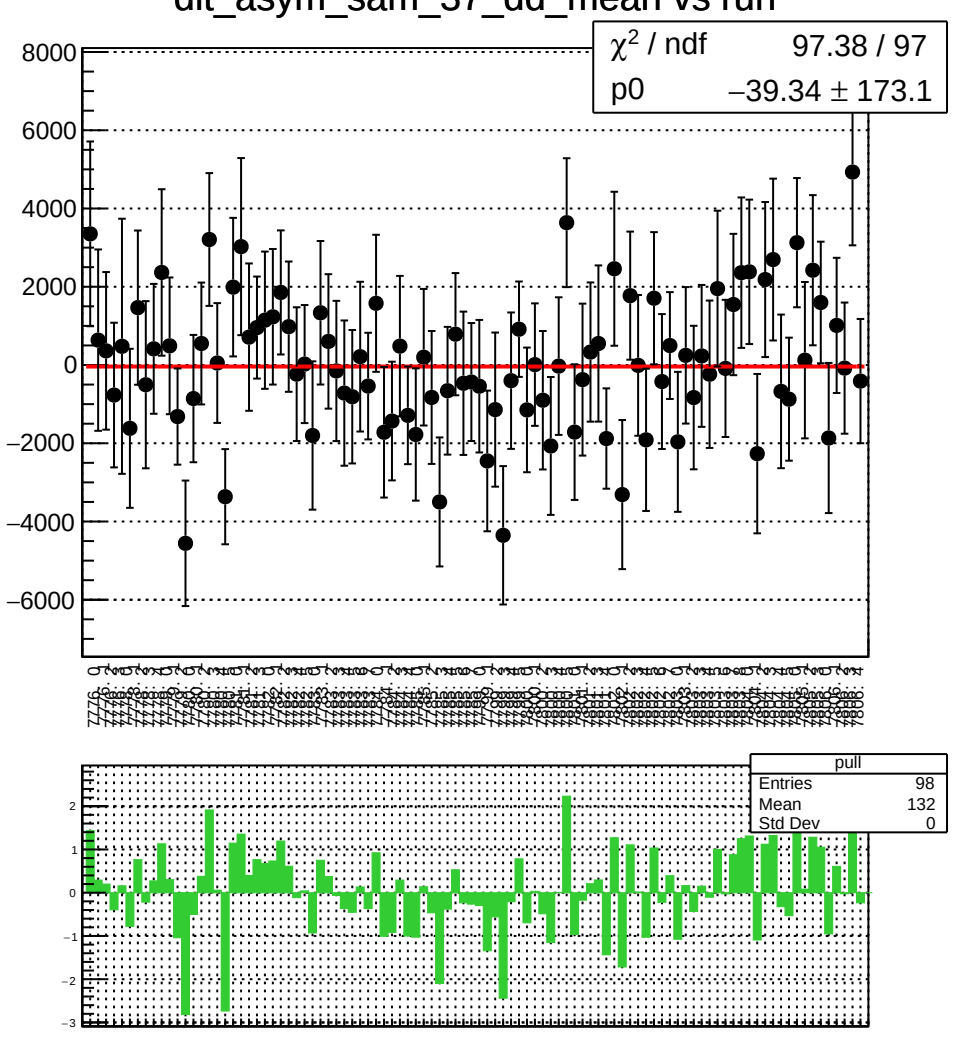

pull1D
Entries 98
Mean 0.01923
Std Dev 1.019

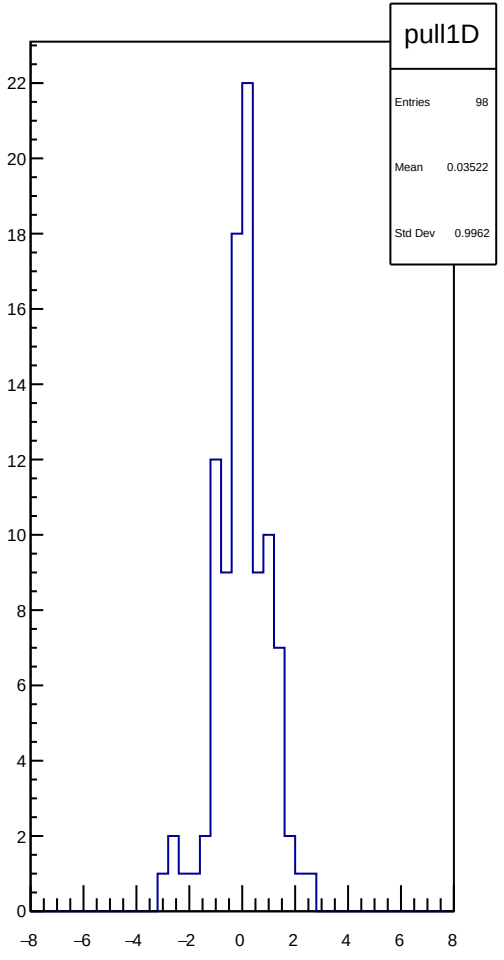

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 8428 / 97
p0 155 ± 0.1115
190
180
170
160
150
140
130

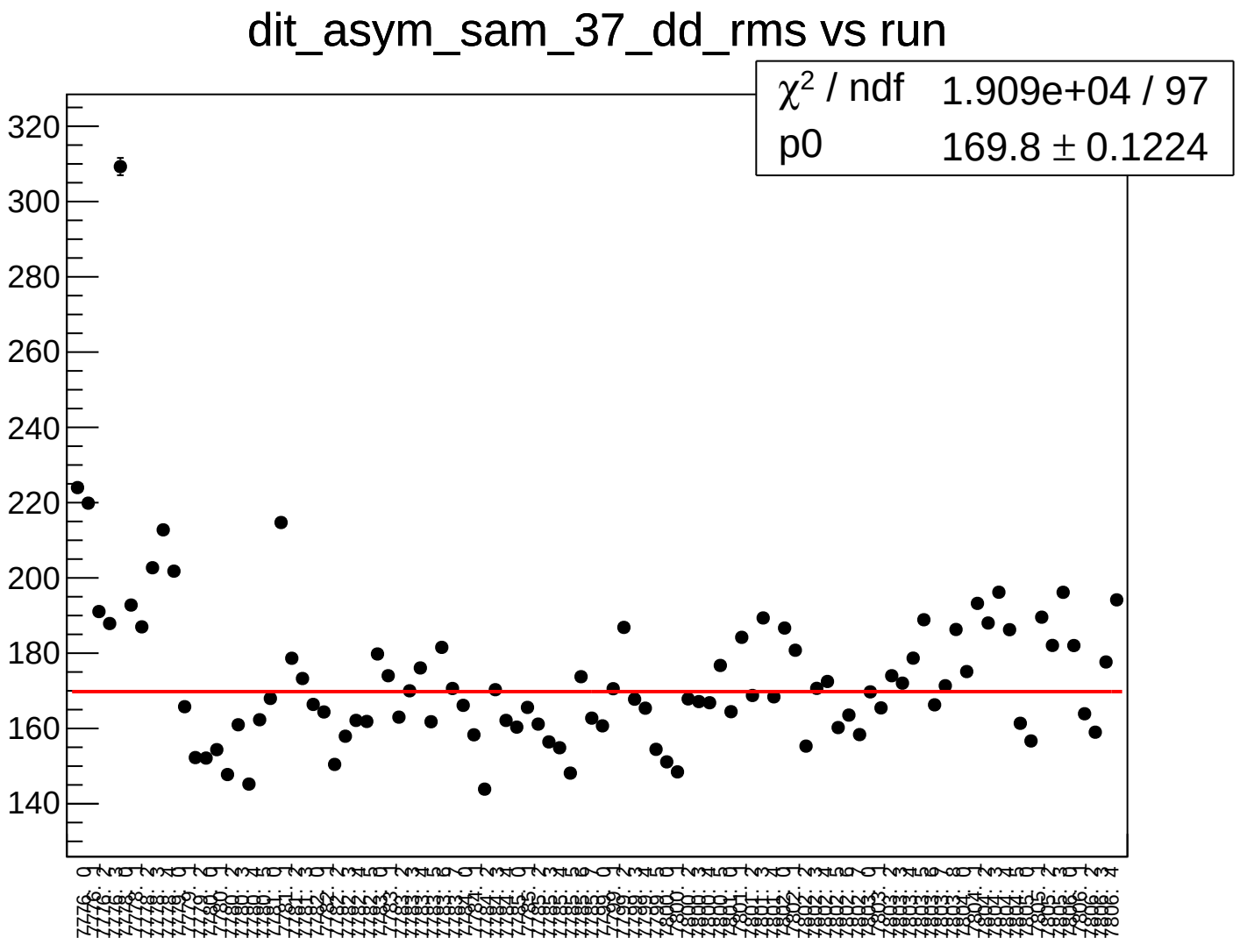

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.7 / 97
p0 −603.5 ± 1202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean −2724
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

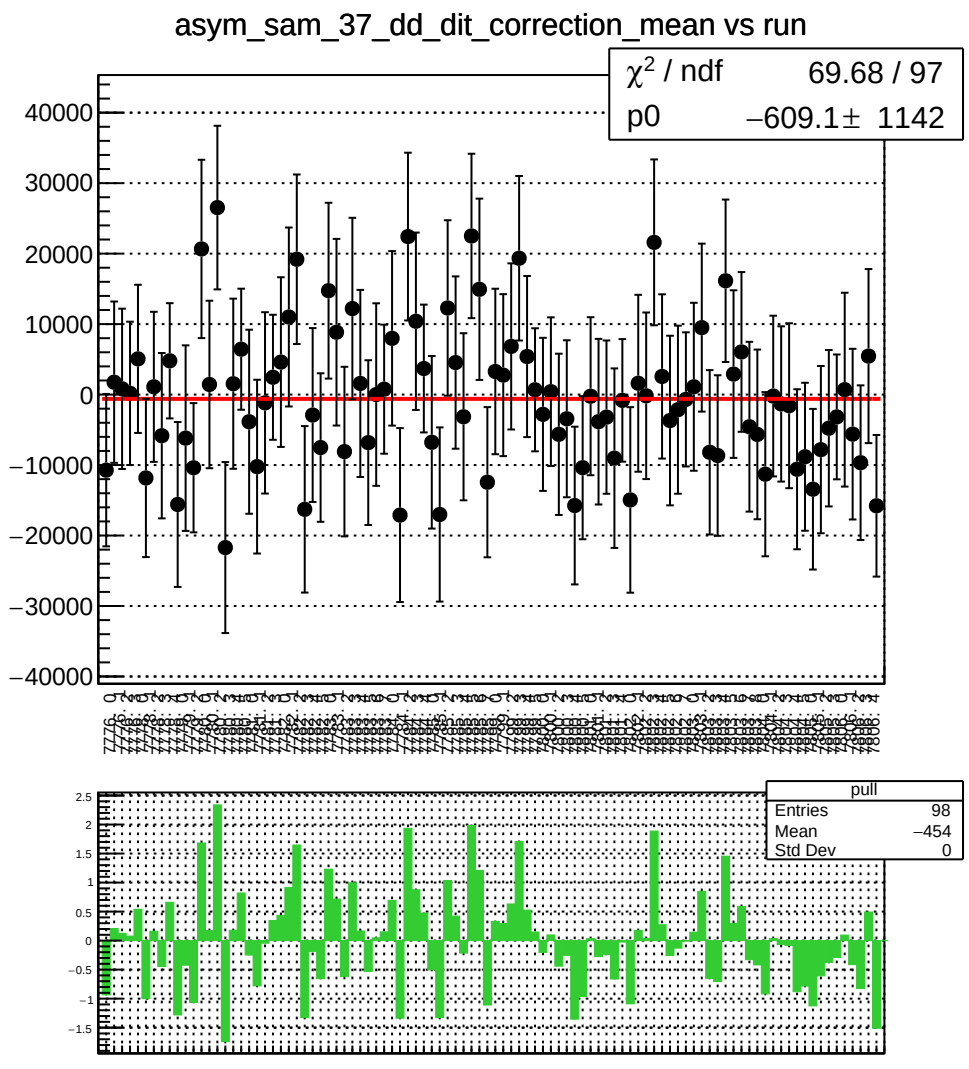

pull1D
Entries 98
Mean 0.001241
Std Dev 0.8433
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

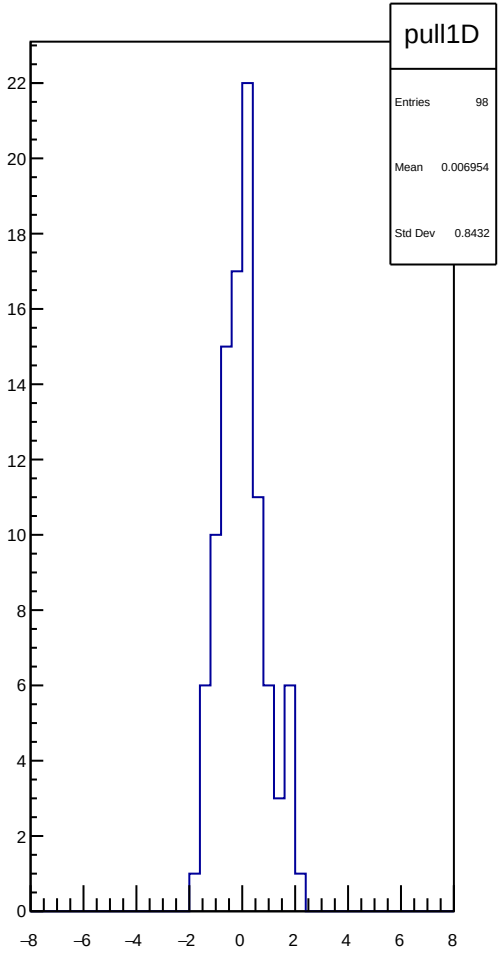

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 3475 / 97
p0 1183 ± 0.8497
1350
1300
1250
1200
1150
1100
1050

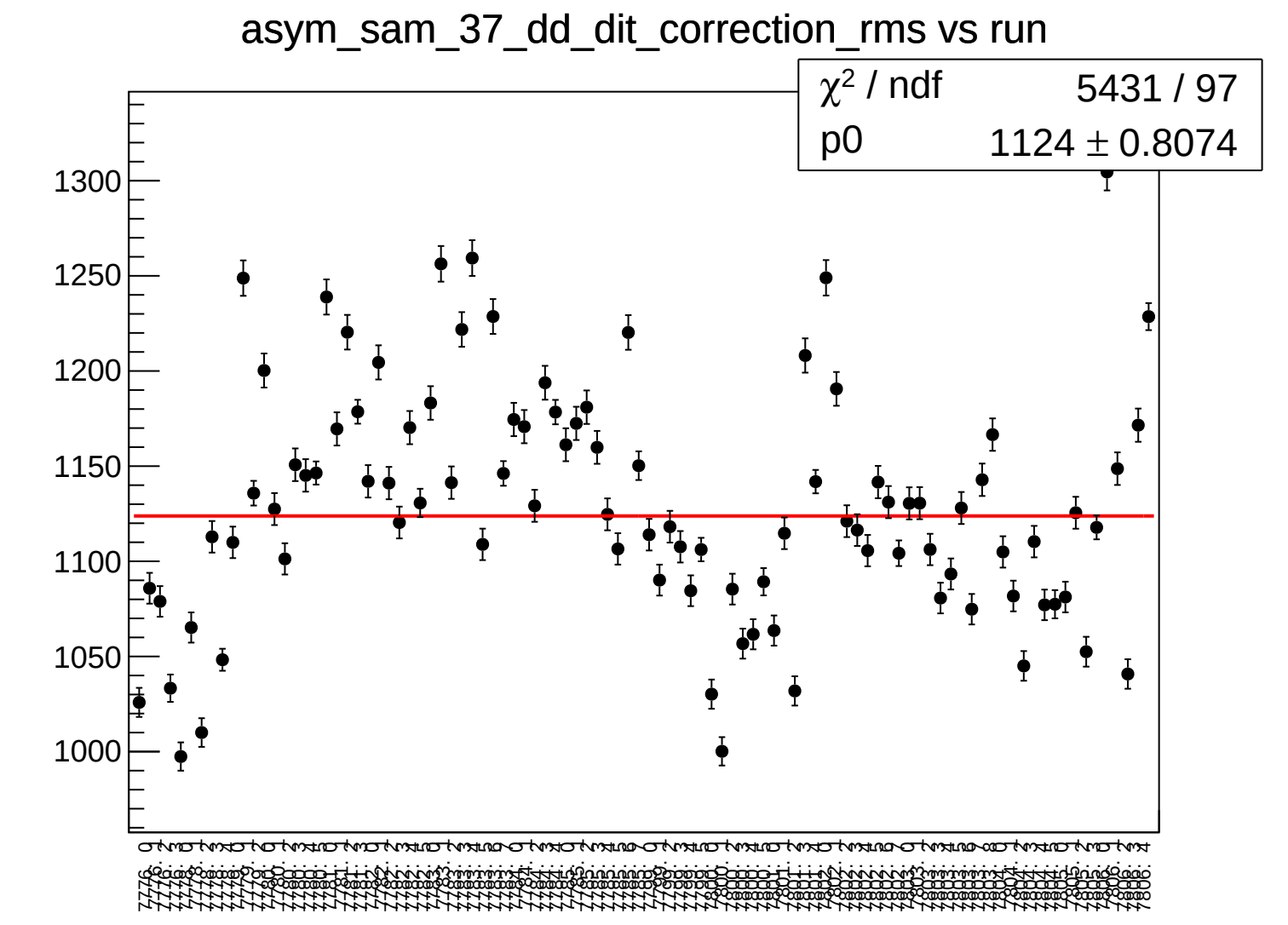

dit_asym_sam_37_dd_mean vs run
χ^2 / ndf 97.38 / 97
p0 −39.34 ± 173.1
pull
Entries 98
Mean 132
Std Dev 0

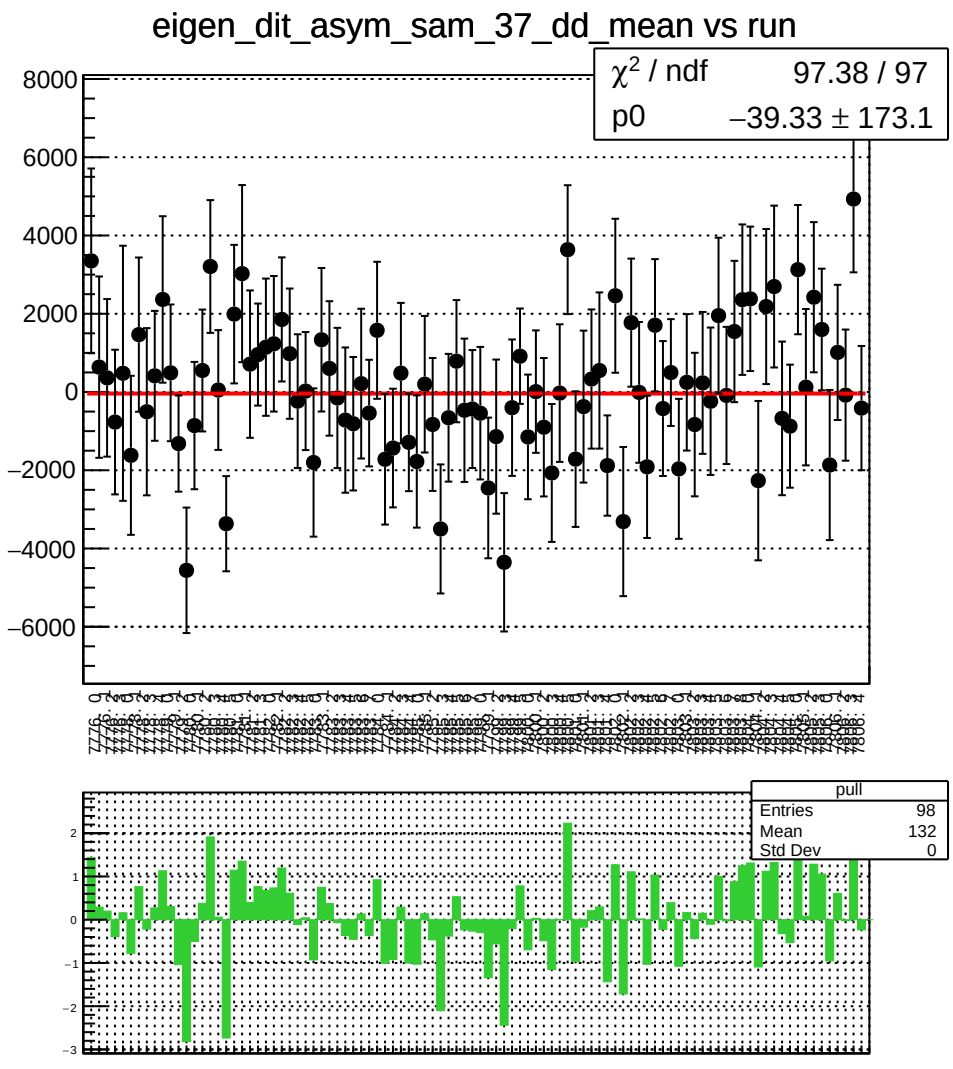

pull1D
Entries 98
Mean 0.03522
Std Dev 0.9962

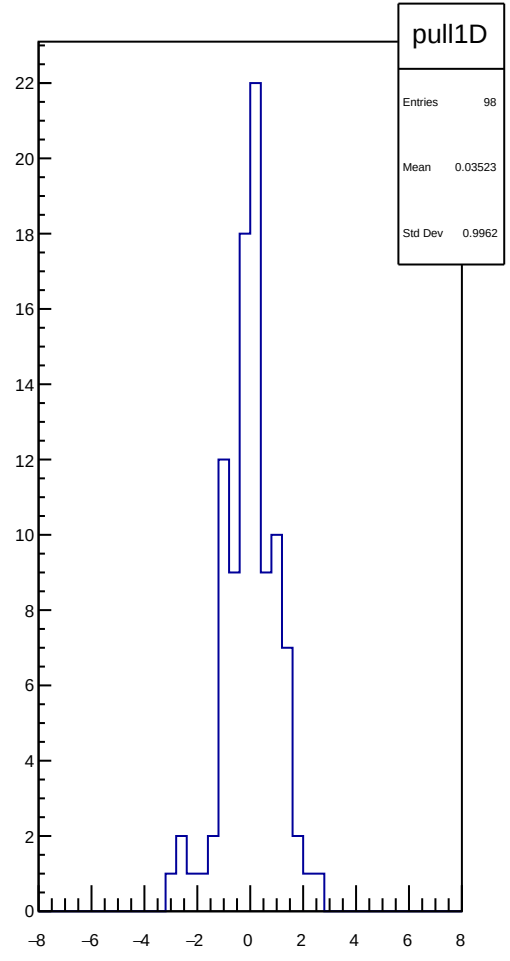

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.909e+04 / 97
p0 169.8 ± 0.1224
320
300
280
260
240
220
200
180
160
140

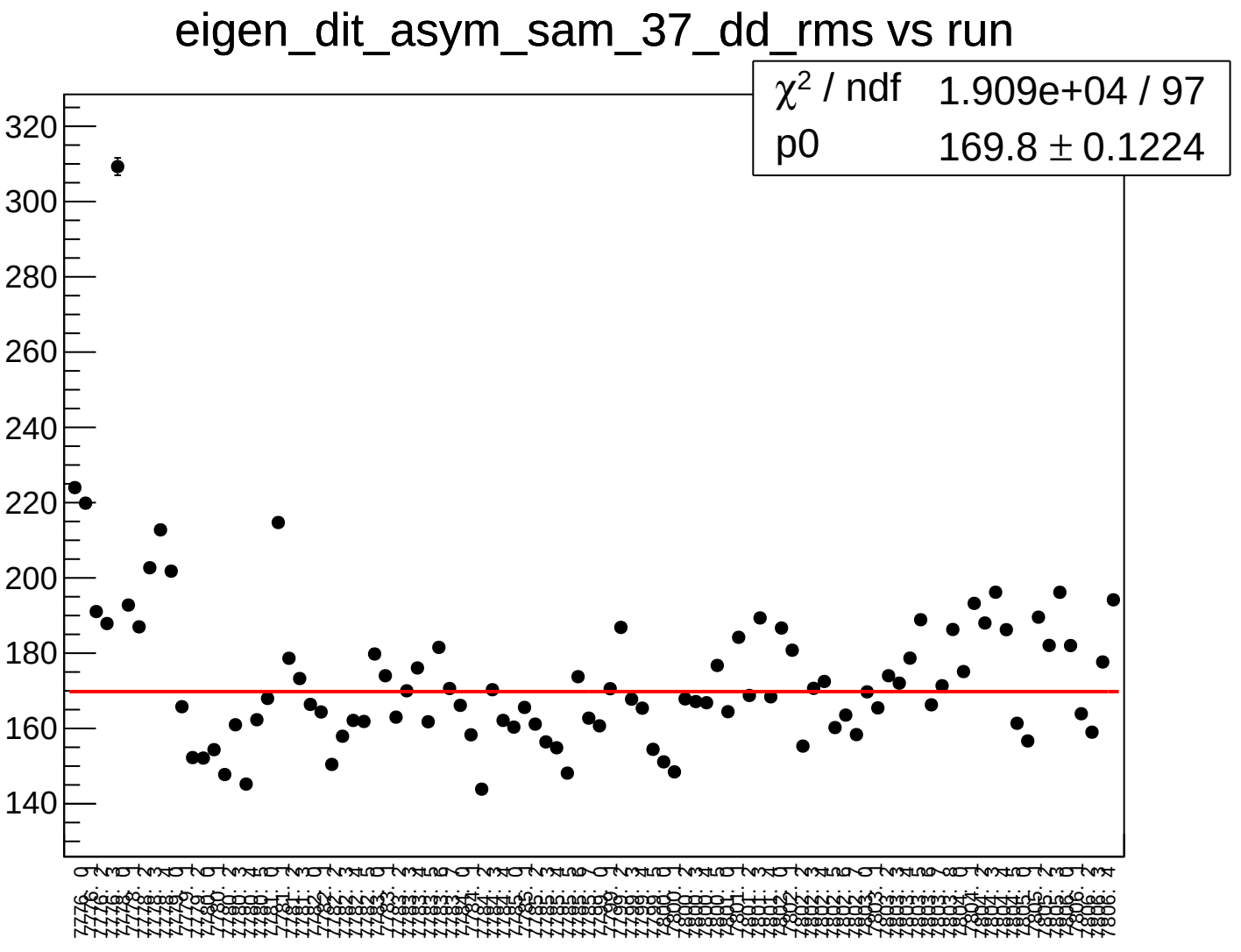

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 69.68 / 97
p0 −609.1± 1142
pull
Entries 98
Mean −454
Std Dev 0

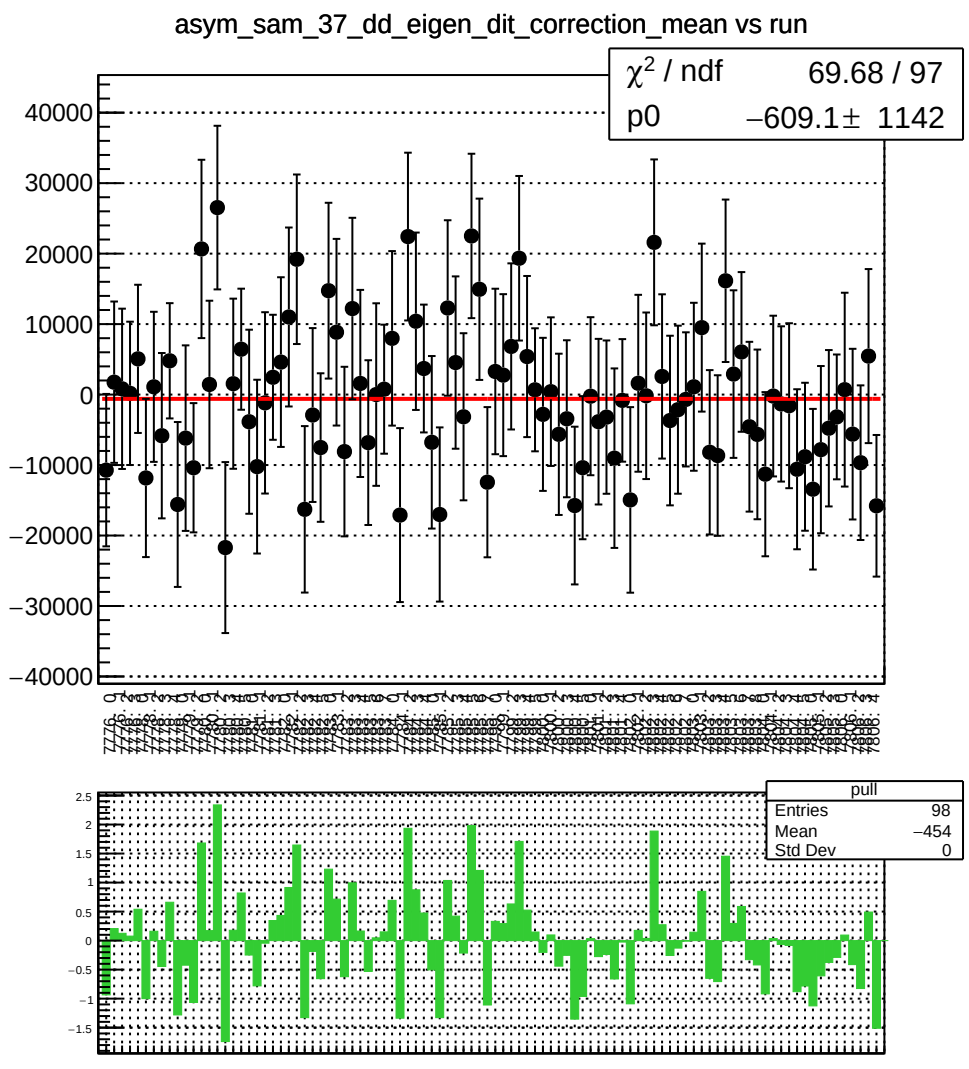

pull1D
Entries 98
Mean 0.006954
Std Dev 0.8432

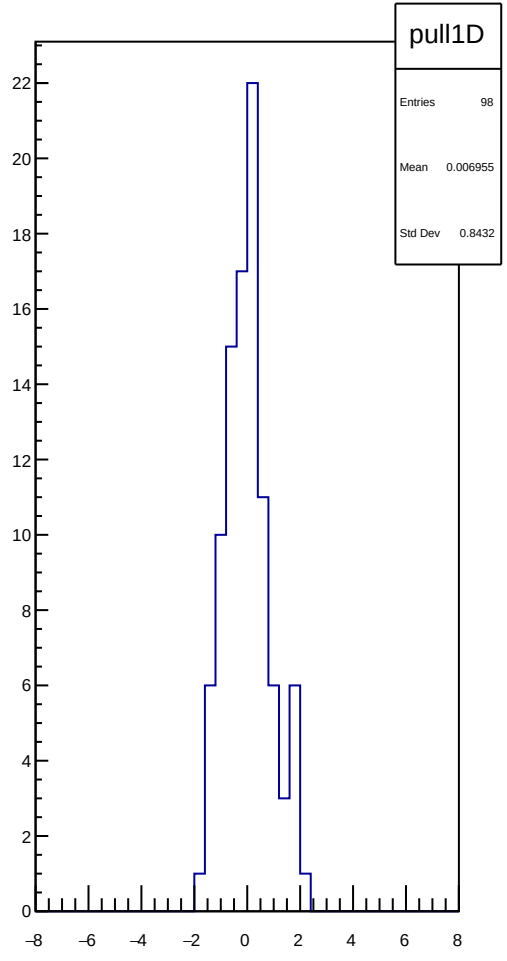

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 5431 / 97
p0 1124 ± 0.8074
1300
1250
1200
1150
1100
1050
1000

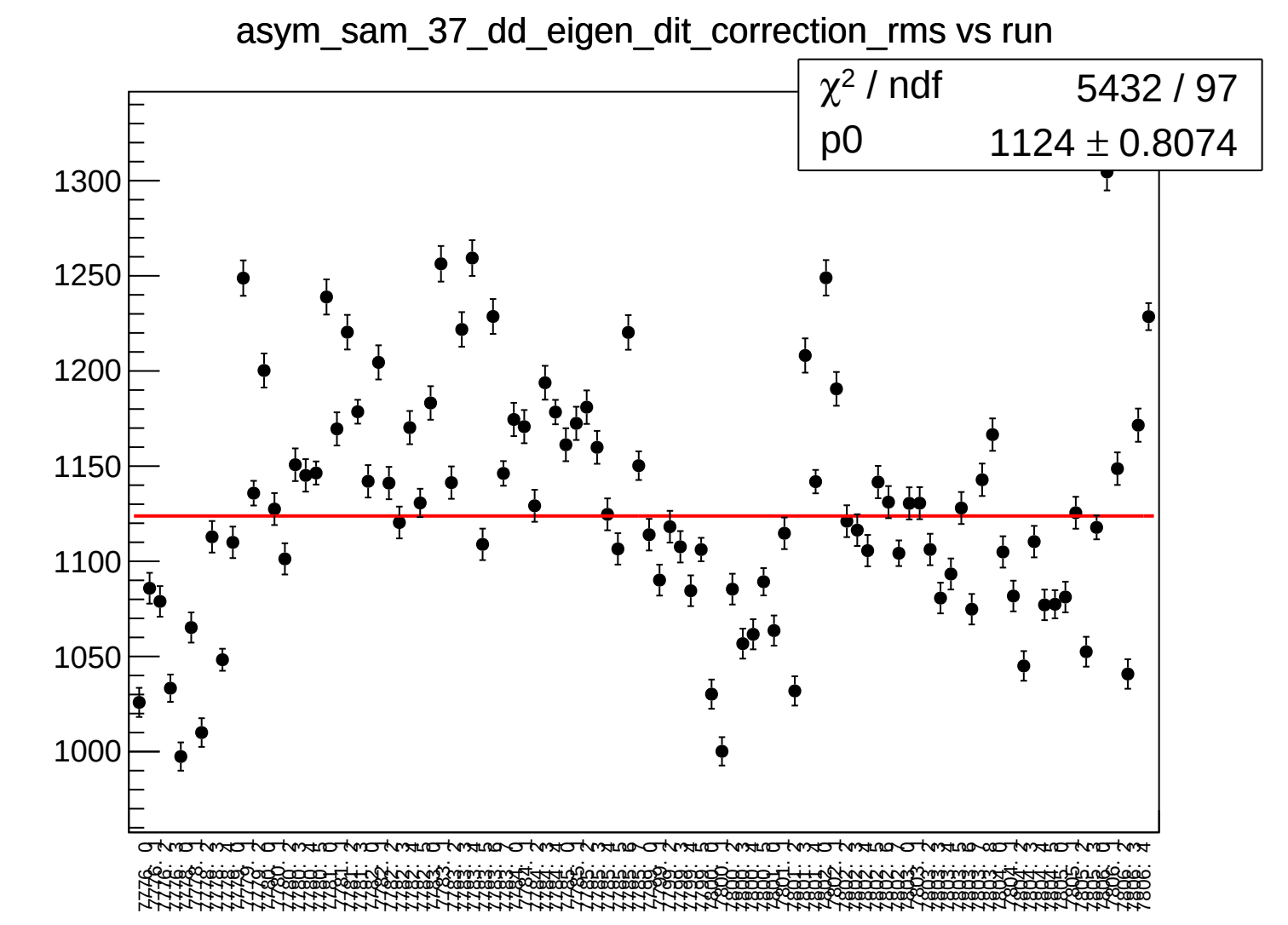

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 97.38 / 97
p0 −39.33 ± 173.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 132
Std Dev 0
2
1
0
−1
−2
−3

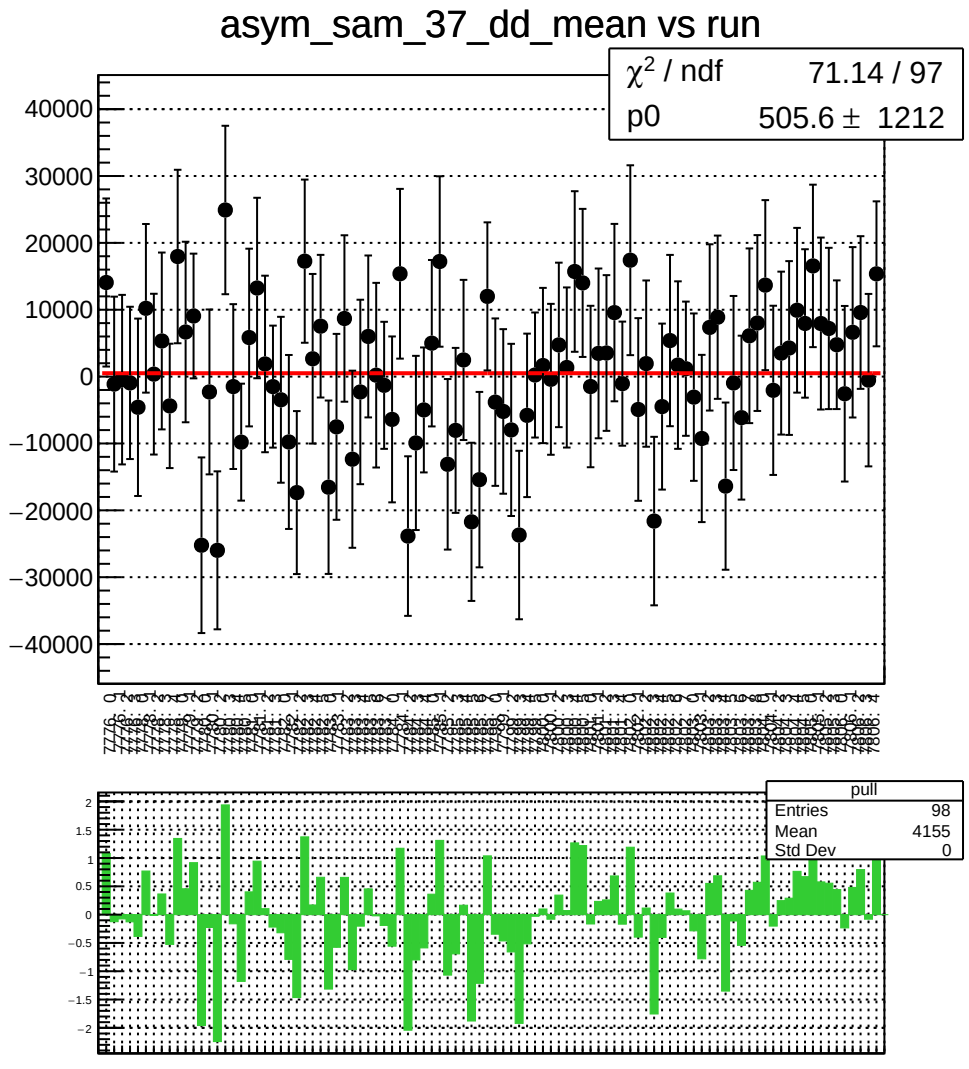

pull1D
Entries 98
Mean 0.03523
Std Dev 0.9962
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

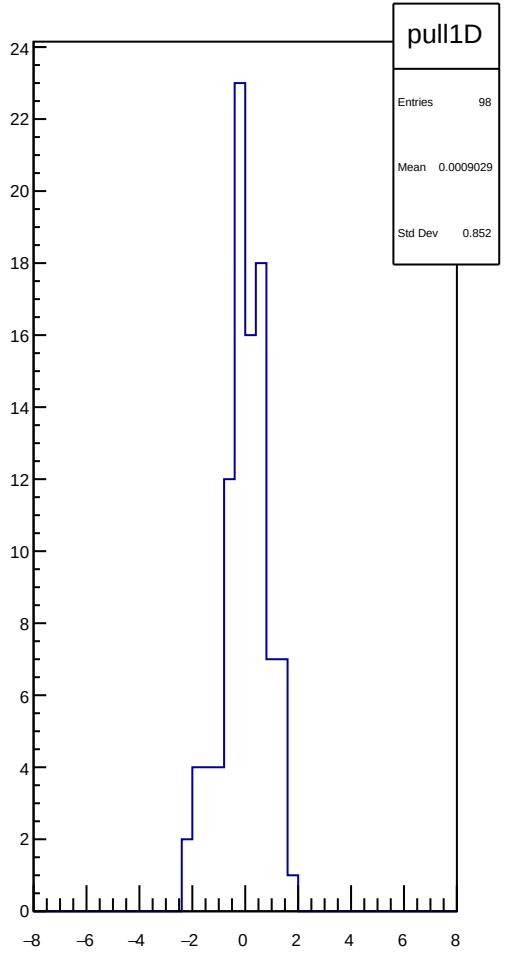

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.909e+04 / 97
p0 169.8 ± 0.1224
320
300
280
260
240
220
200
180
160
140

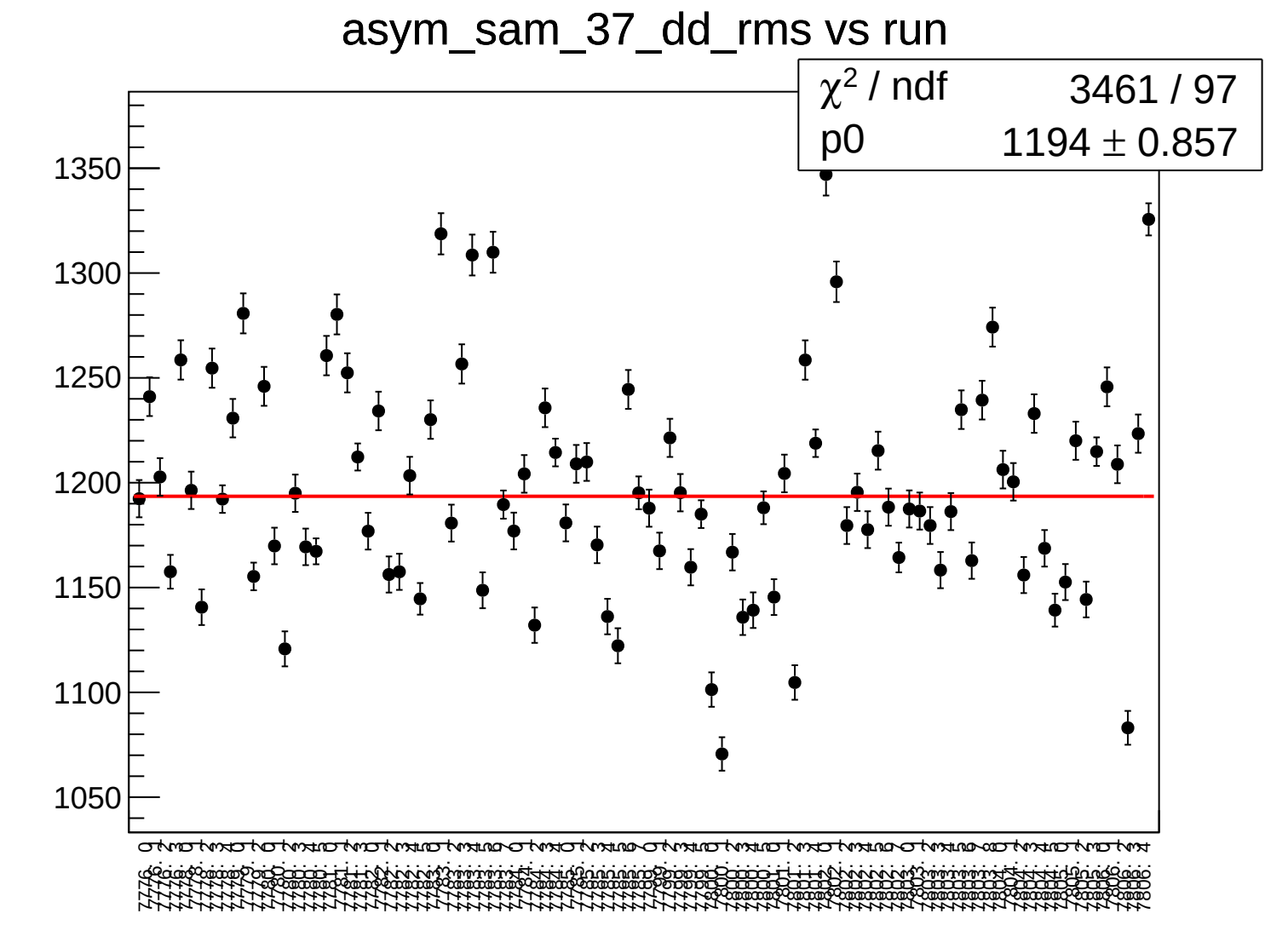

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.68 / 97
p0 −609.1± 1142
pull
Entries 98
Mean −454
Std Dev 0

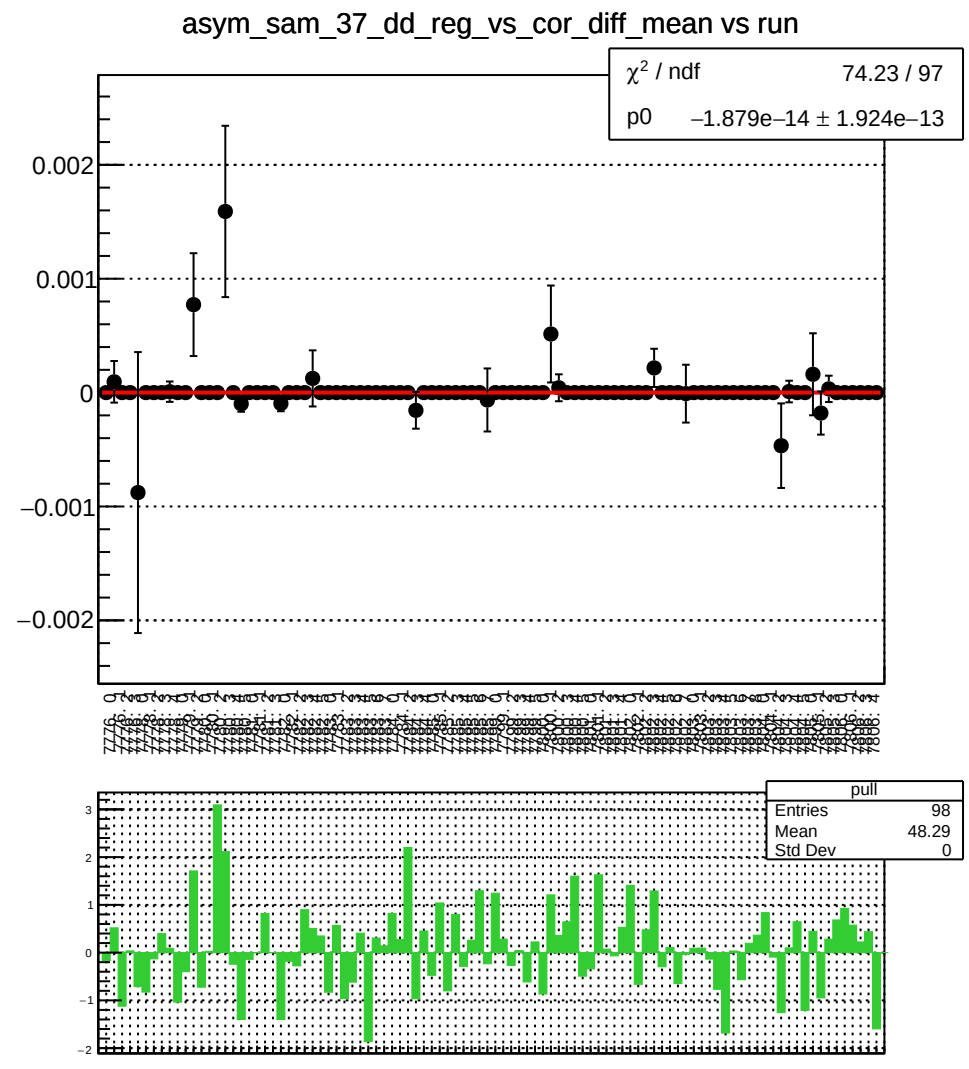

pull1D
Entries 98
Mean 0.006955
Std Dev 0.8432

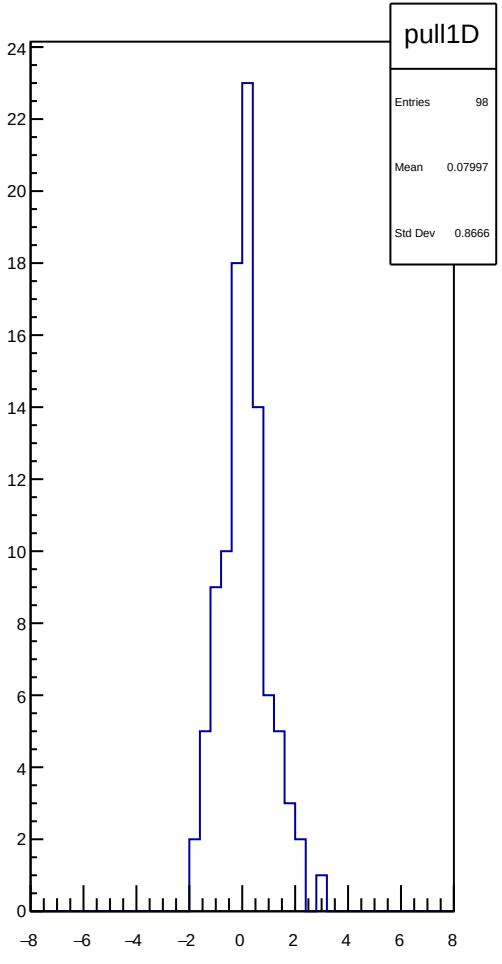

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 5432 / 97
p0 1124 ± 0.8074
1300
1250
1200
1150
1100
1050
1000

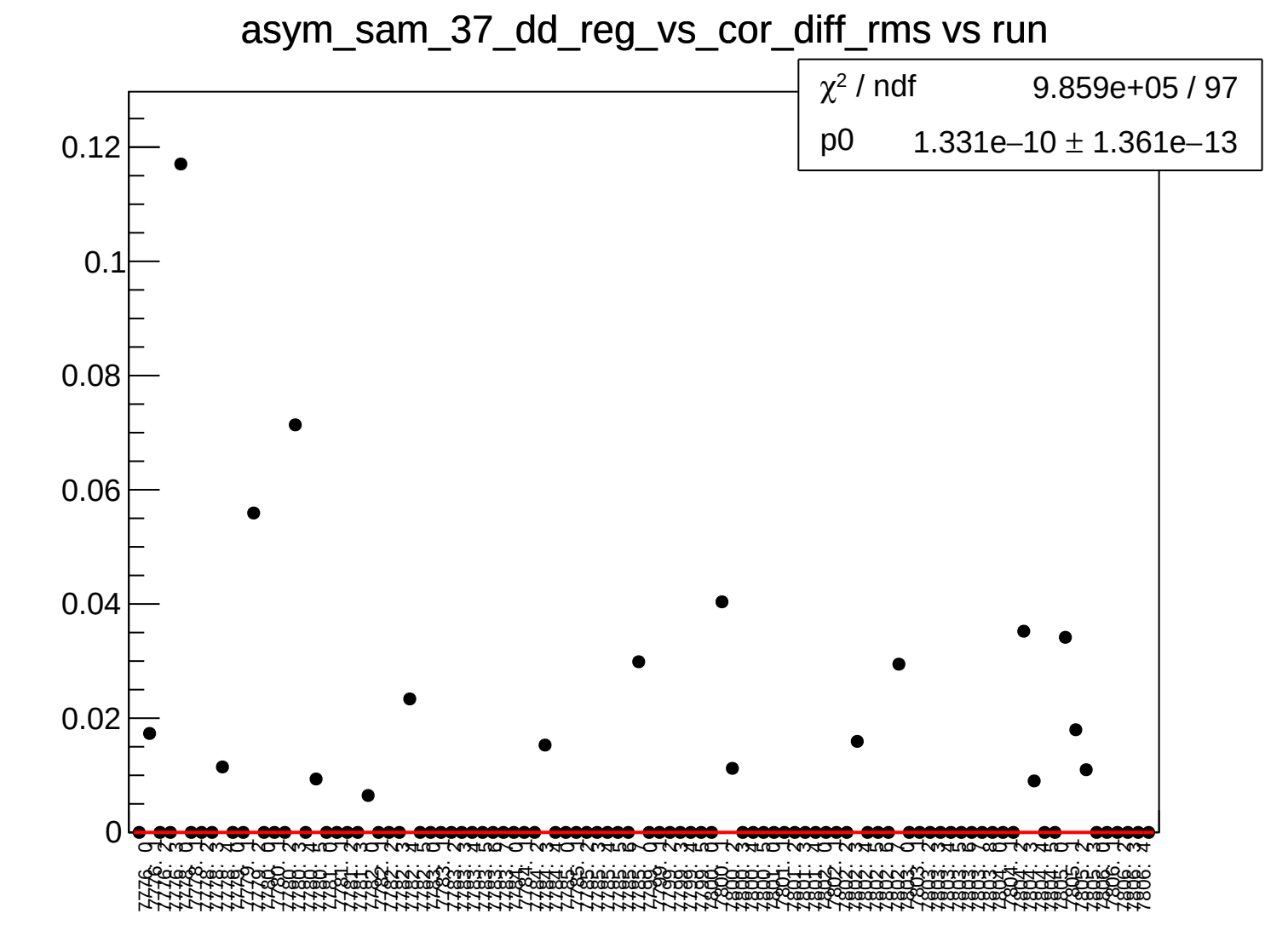

asym_sam_37_dd_mean vs run
χ² / ndf 71.14 / 97
p0 505.6 ± 1212
pull
Entries 98
Mean 4155
Std Dev 0

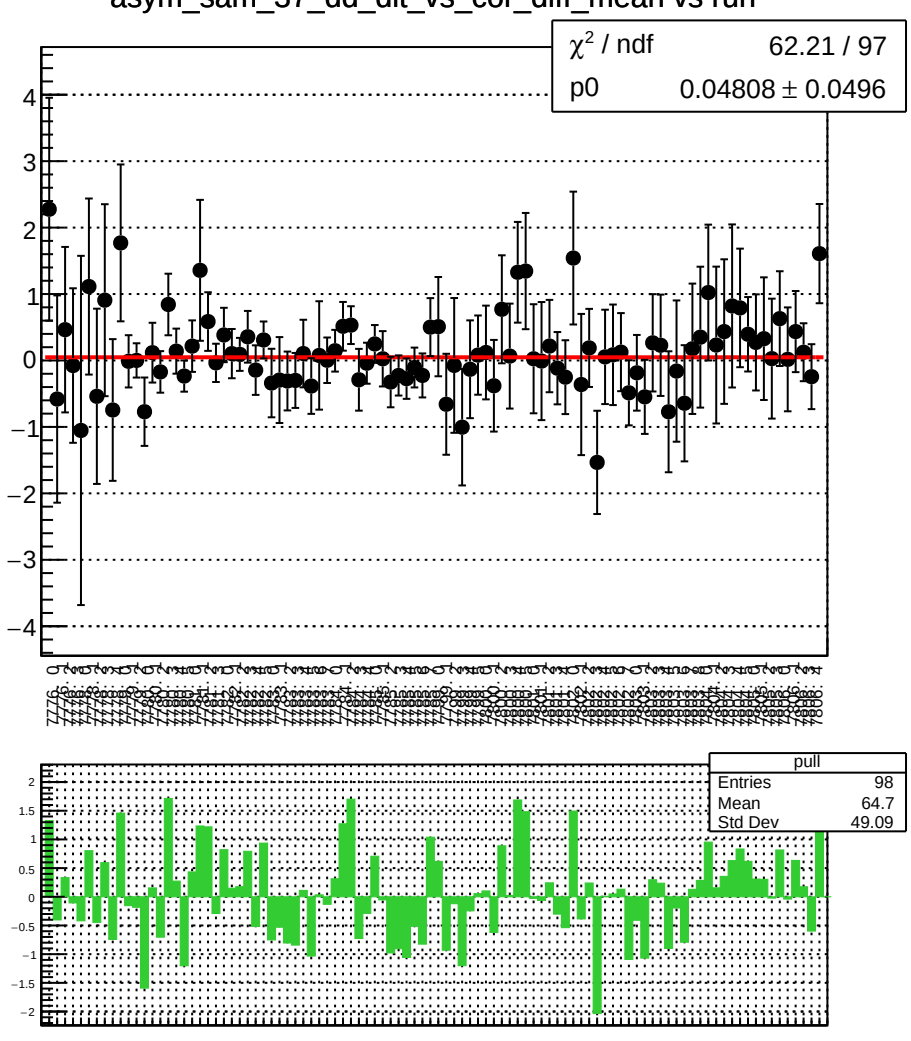

pull1D
Entries 98
Mean 0.0009029
Std Dev 0.852

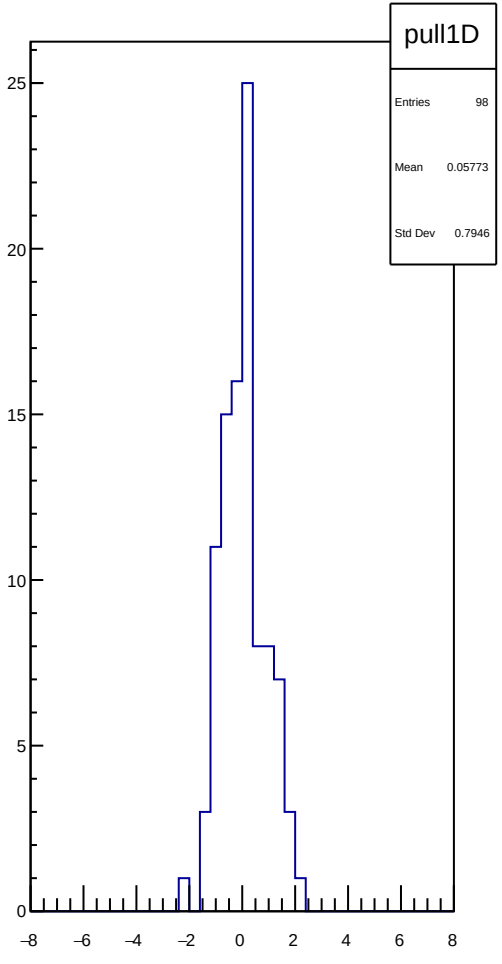

asym_sam_37_dd_rms vs run
χ² / ndf 3461 / 97
p0 1194 ± 0.857
1350
1300
1250
1200
1150
1100
1050

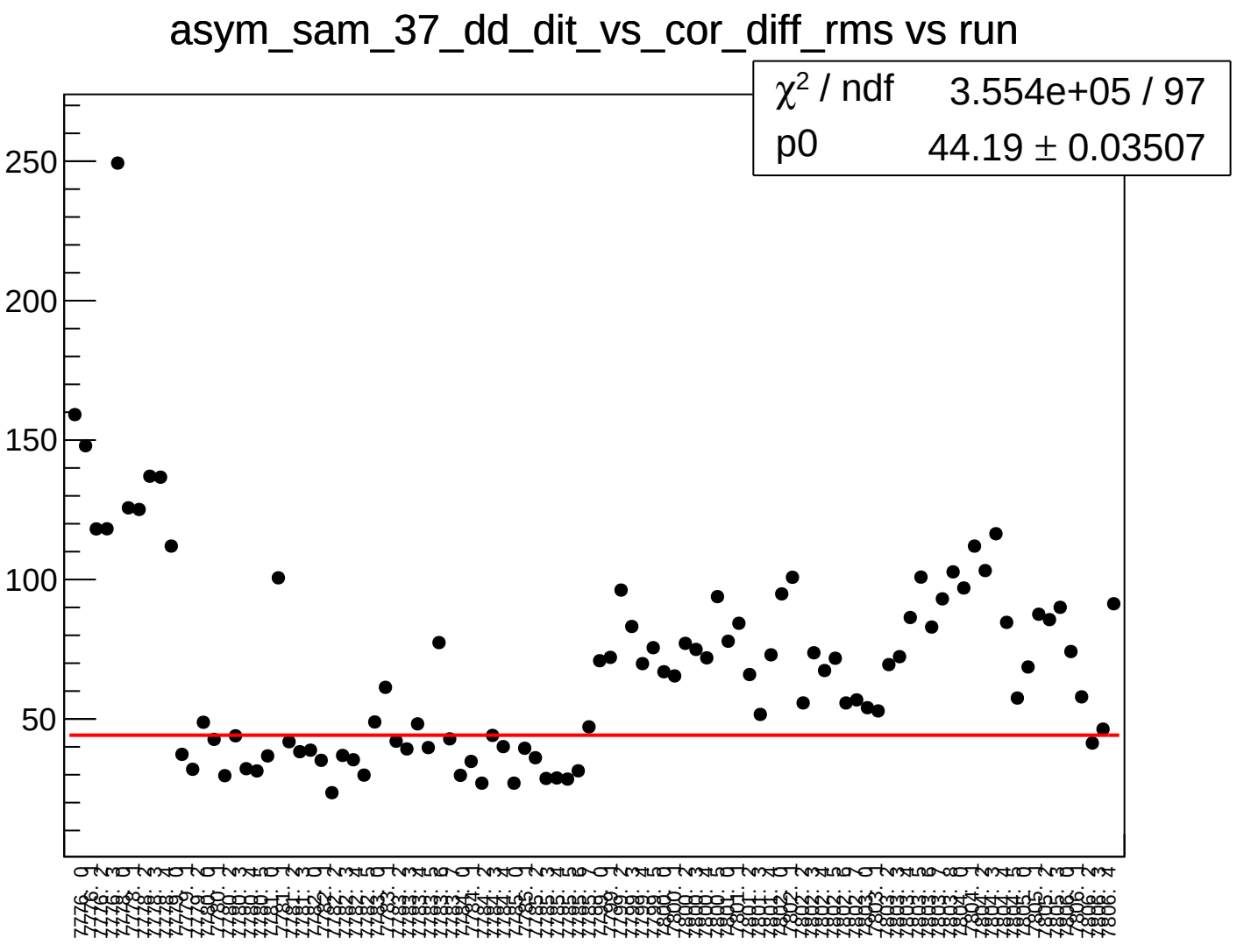

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.23 / 97
p0 −1.879e−14 ± 1.924e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 98
Mean 48.29
Std Dev 0
3
2
1
0
−1
−2

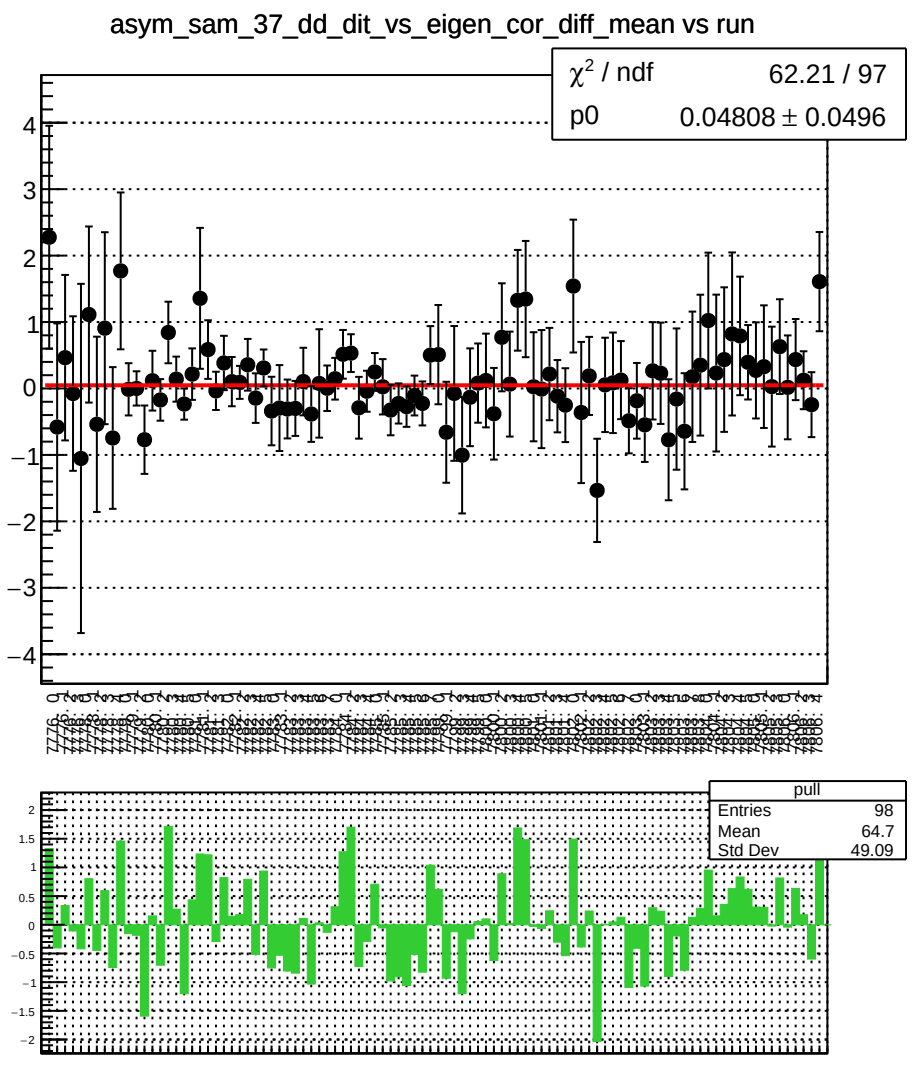

pull1D
Entries 98
Mean 0.07997
Std Dev 0.8666
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

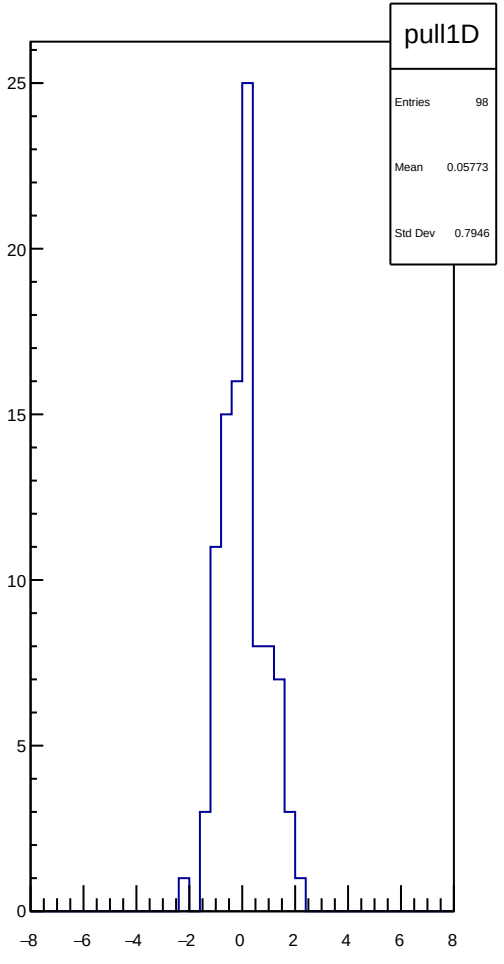

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.859e+05 / 97
p0 1.331e−10 ± 1.361e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

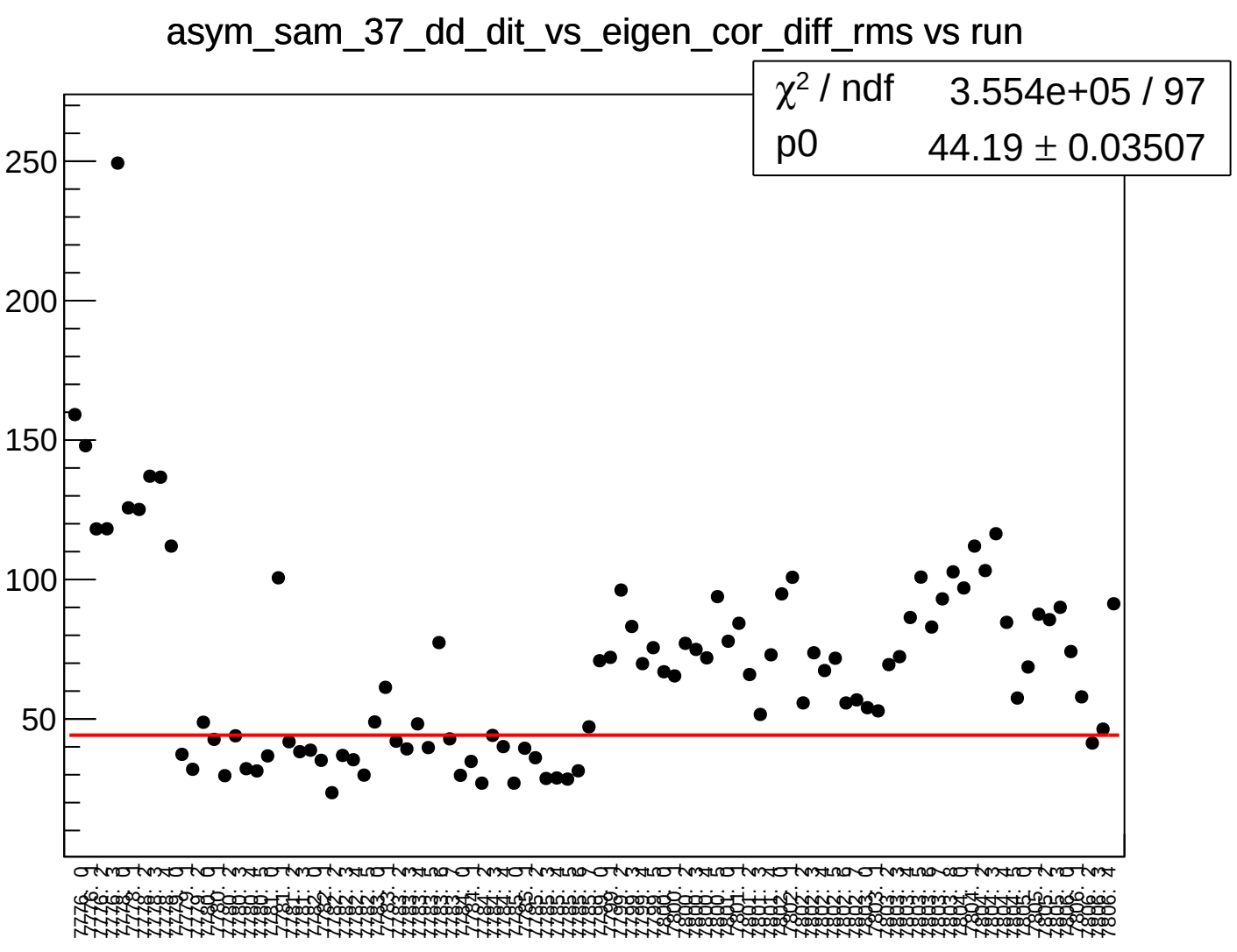

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 62.21 / 97
p0 0.04808 ± 0.0496
pull
Entries 98
Mean 64.7
Std Dev 49.09

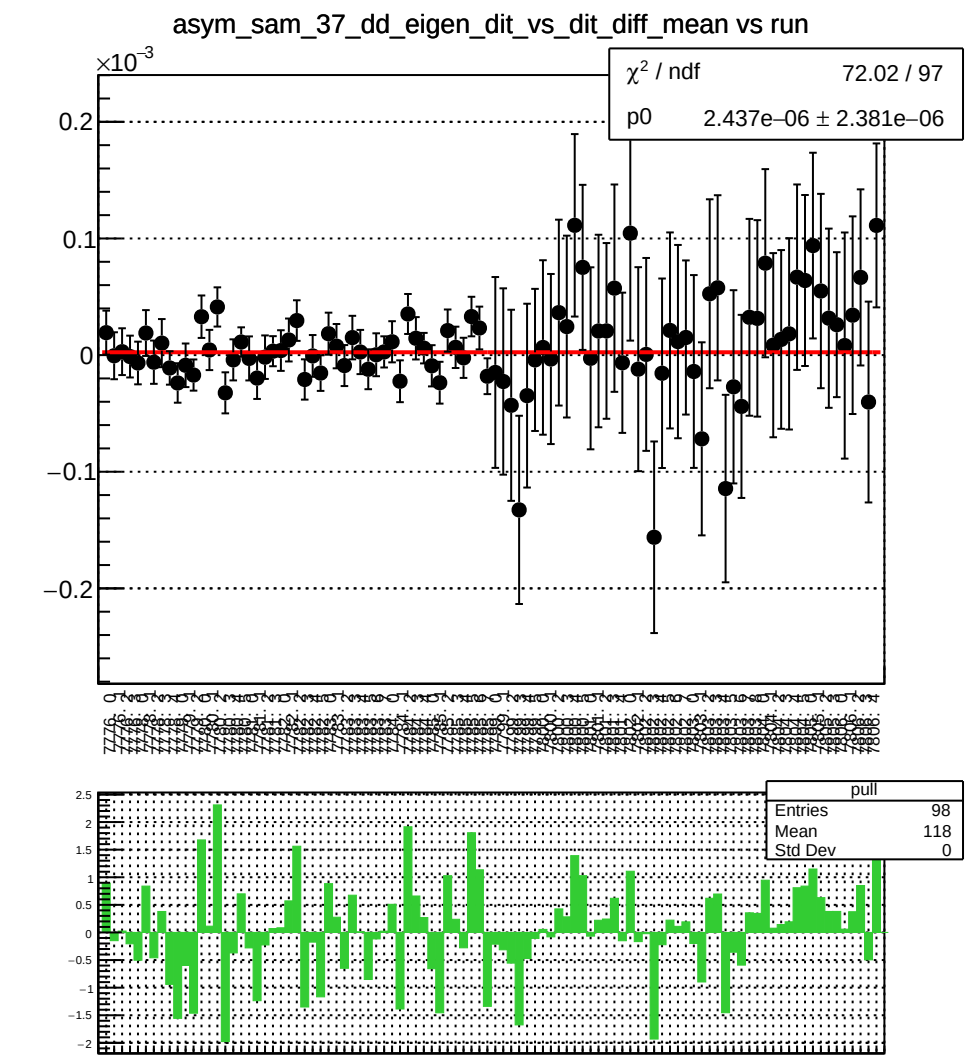

pull1D
Entries 98
Mean 0.05773
Std Dev 0.7946

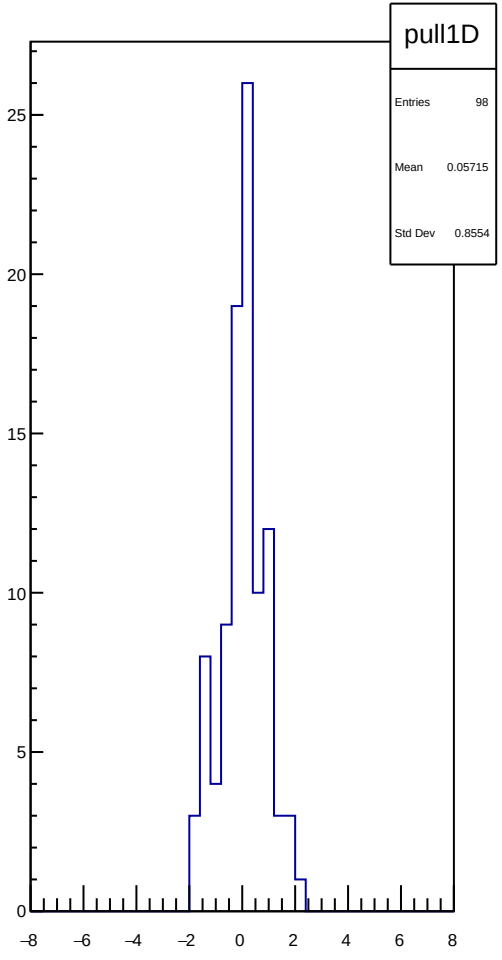

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.554e+05 / 97
p0 44.19 ± 0.03507
250
200
150
100
50

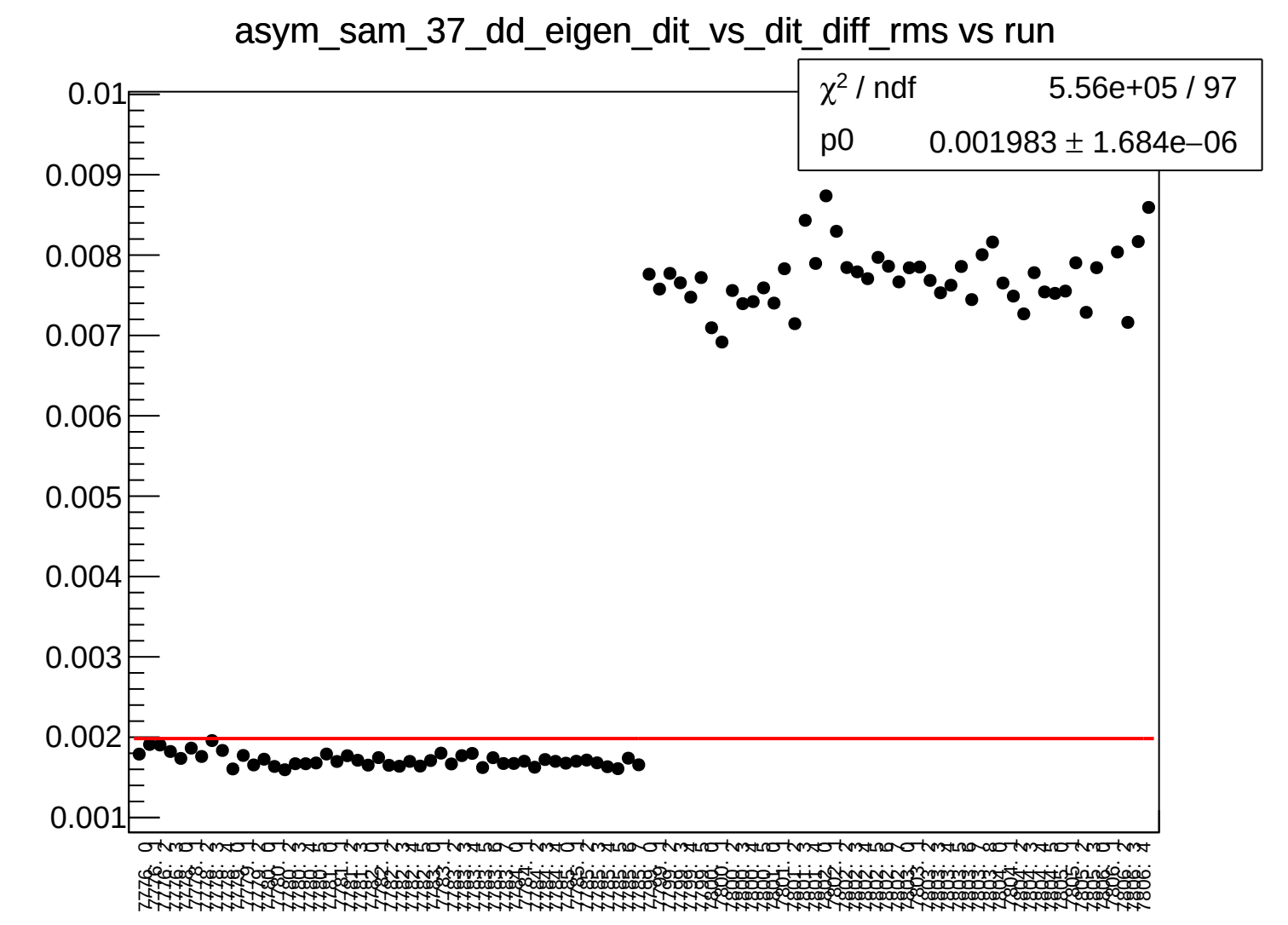

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.21 / 97
p0 0.04808 ± 0.0496
pull
Entries 98
Mean 64.7
Std Dev 49.09

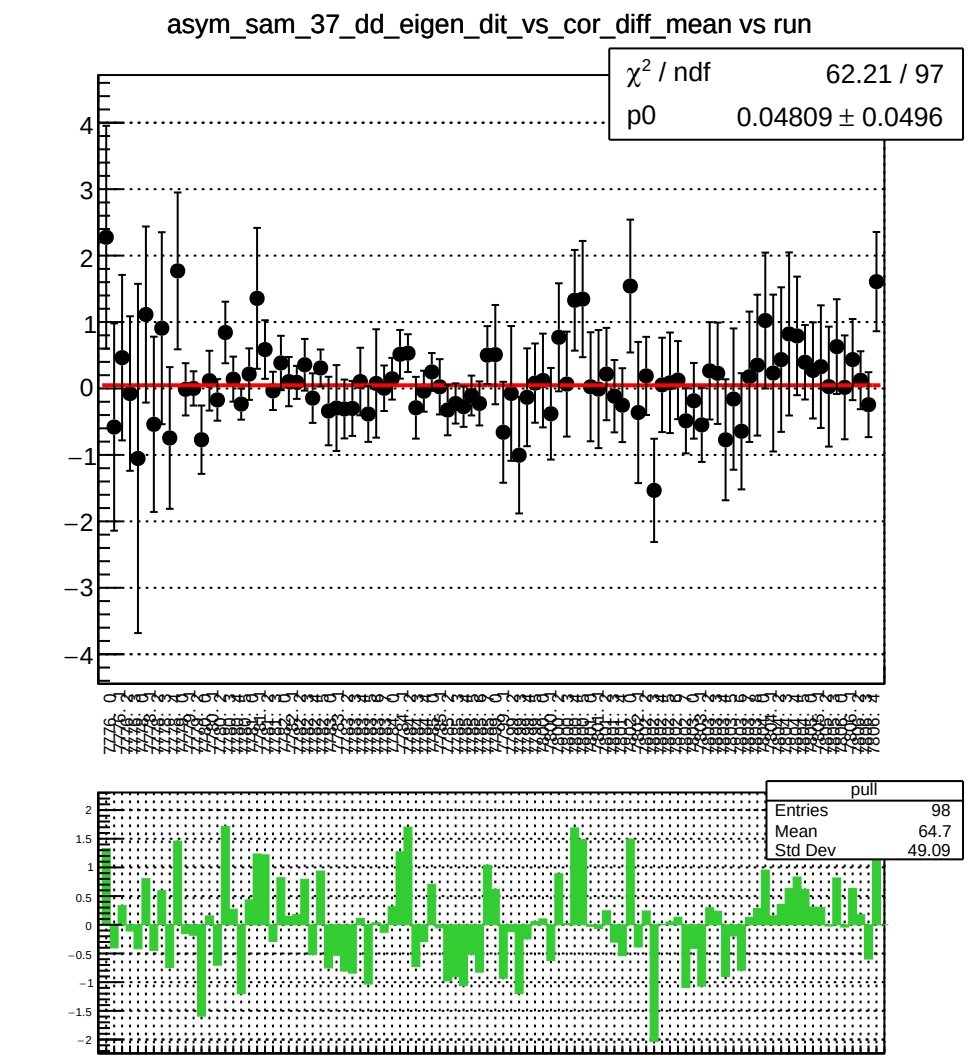

pull1D
Entries 98
Mean 0.05773
Std Dev 0.7946

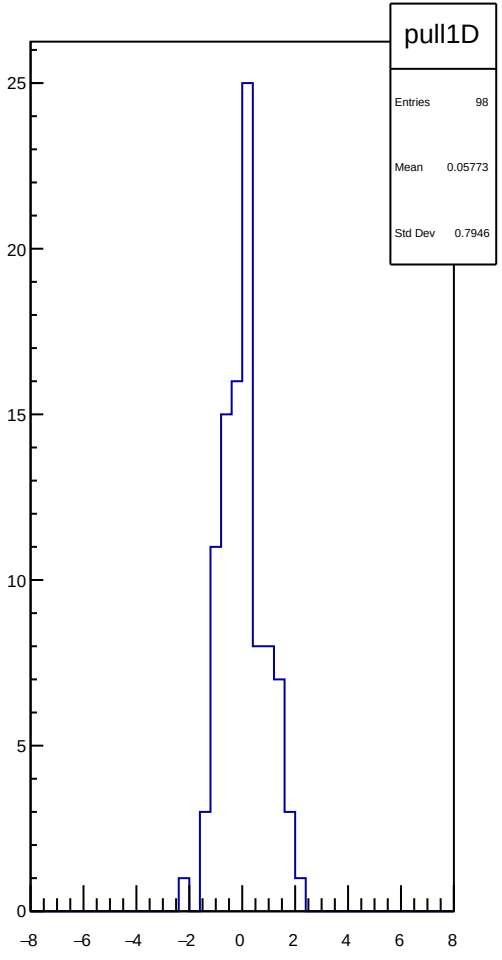

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.554e+05 / 97
p0 44.19 ± 0.03507
250
200
150
100
50

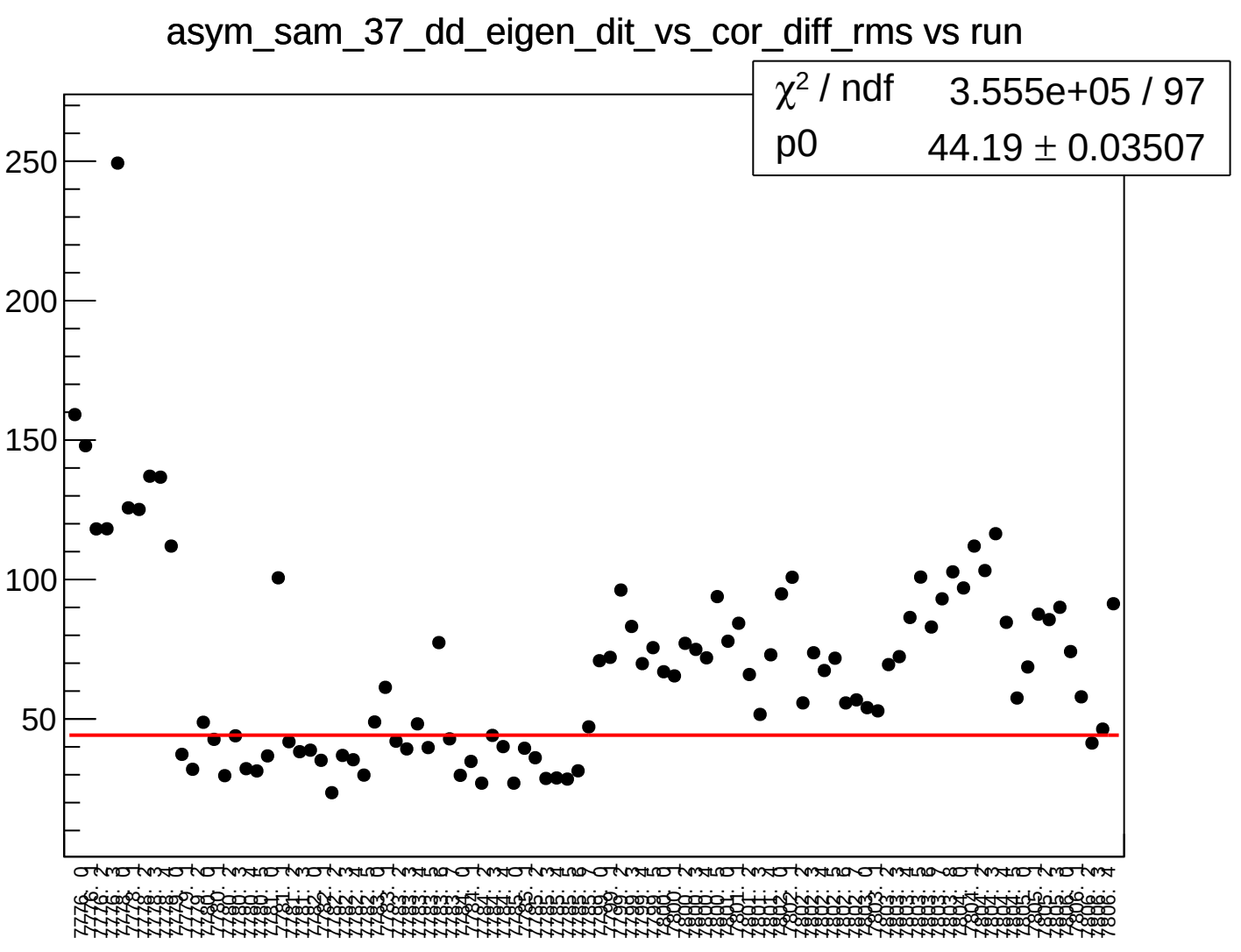

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.02 / 97
p0 2.437e−06 ± 2.381e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 98
Mean 118
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

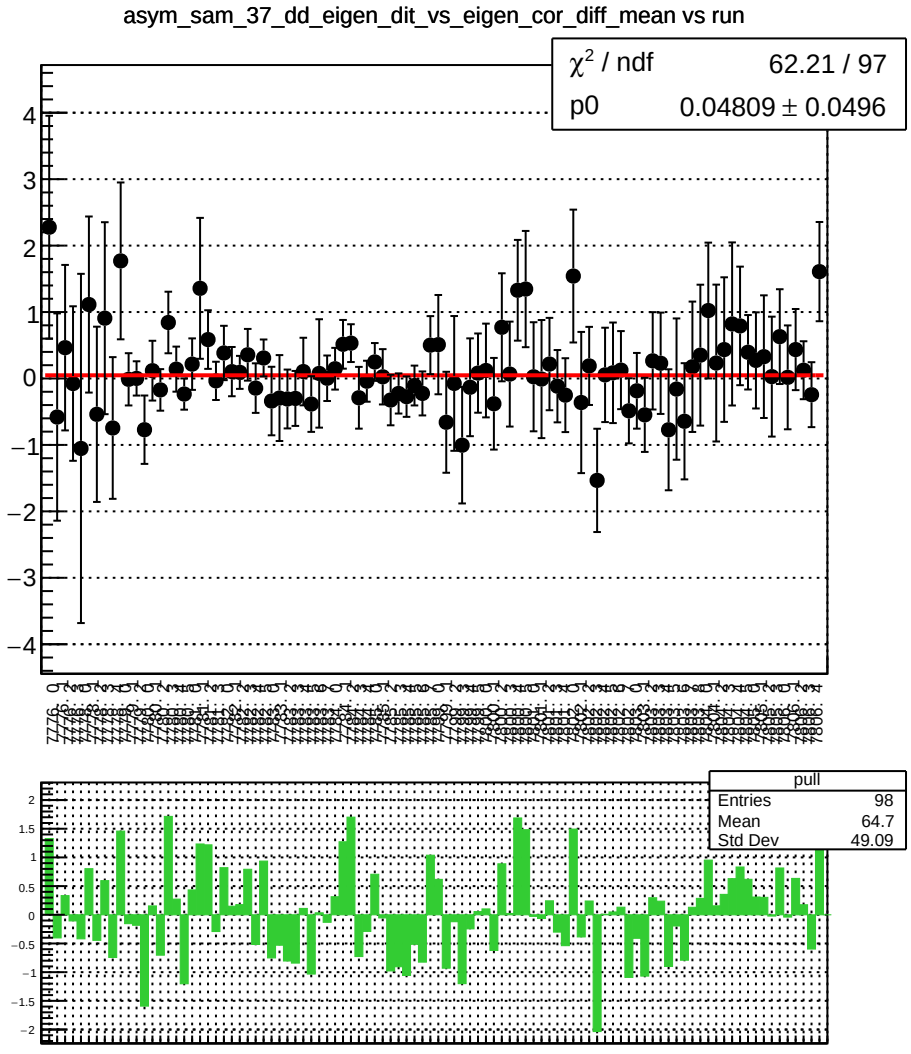

pull1D
Entries 98
Mean 0.05715
Std Dev 0.8554
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

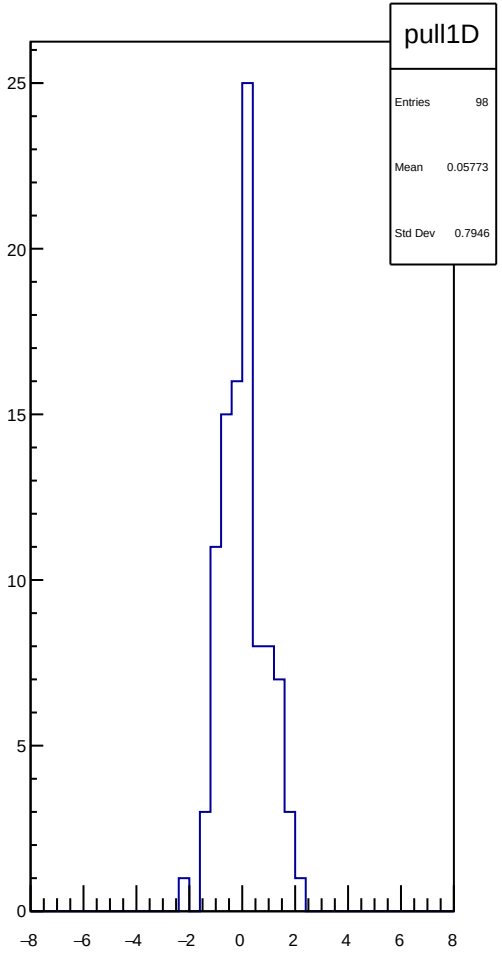

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.56e+05 / 97
p0 0.001983 ± 1.684e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

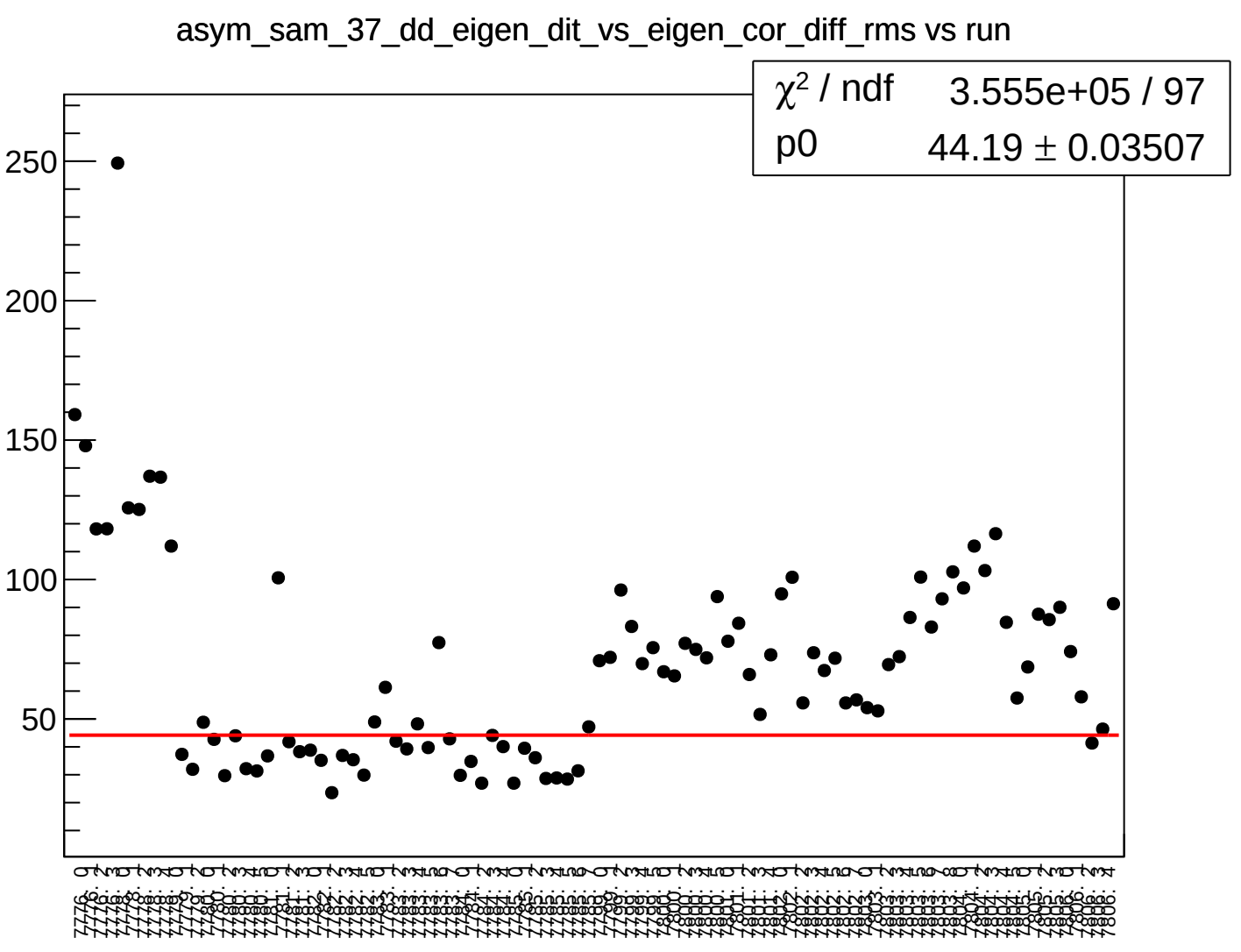

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 62.21 / 97
p0 0.04809 ± 0.0496
pull
Entries 98
Mean 64.7
Std Dev 49.09

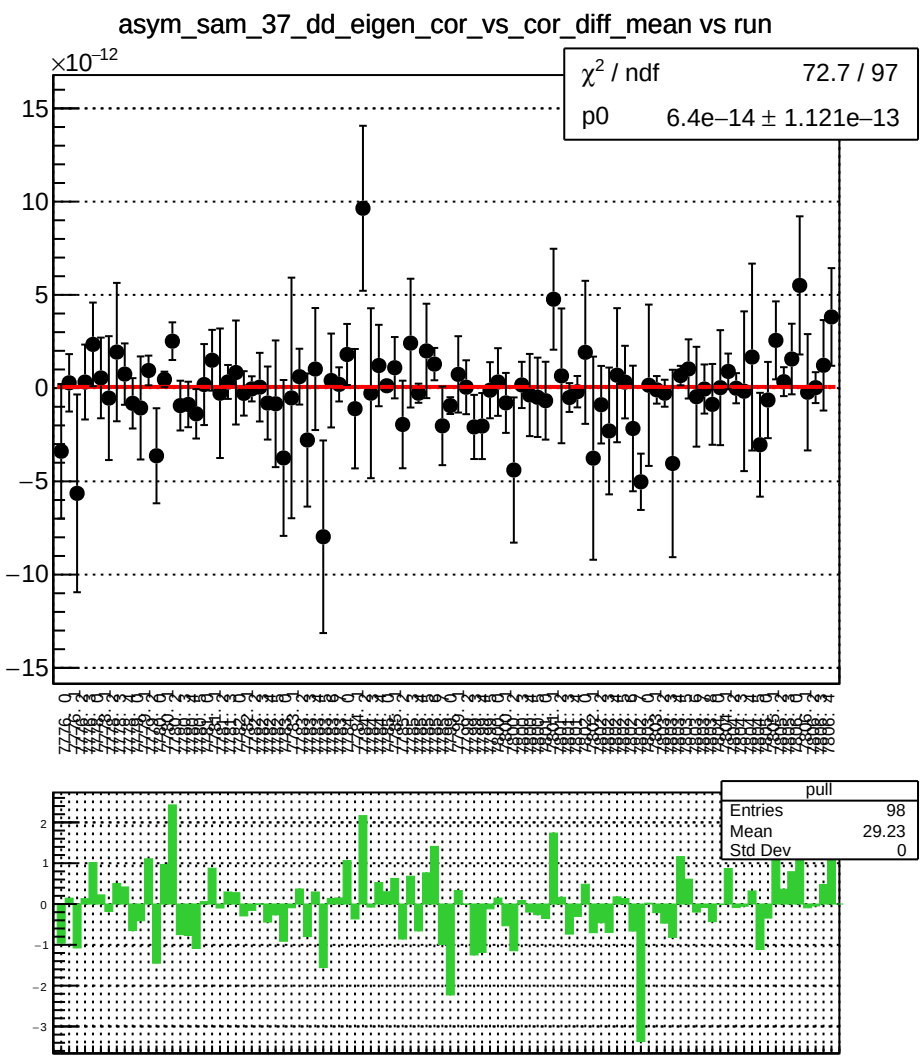

pull1D
Entries 98
Mean 0.05773
Std Dev 0.7946

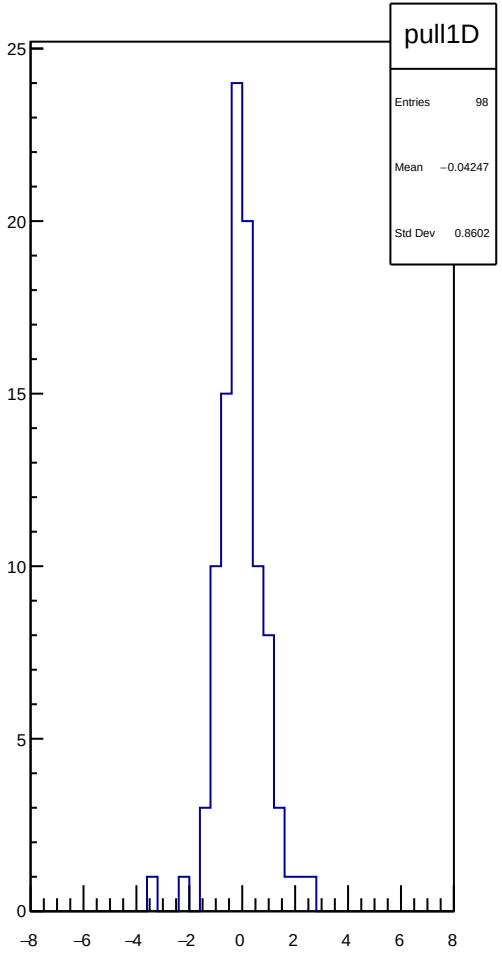

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.555e+05 / 97
p0 44.19 ± 0.03507
250
200
150
100
50

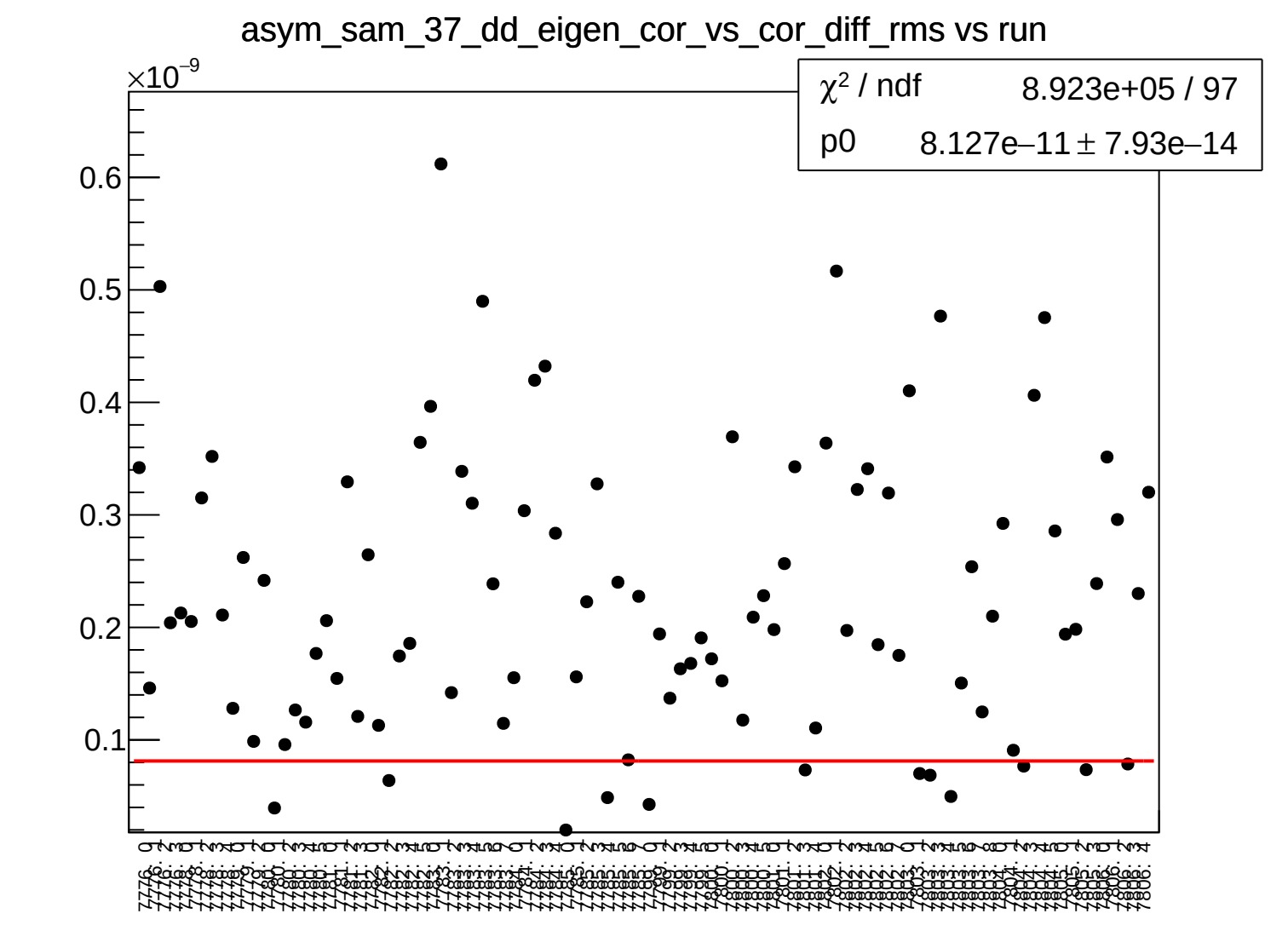

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.21 / 97
p0 0.04809 ± 0.0496
pull
Entries 98
Mean 64.7
Std Dev 49.09

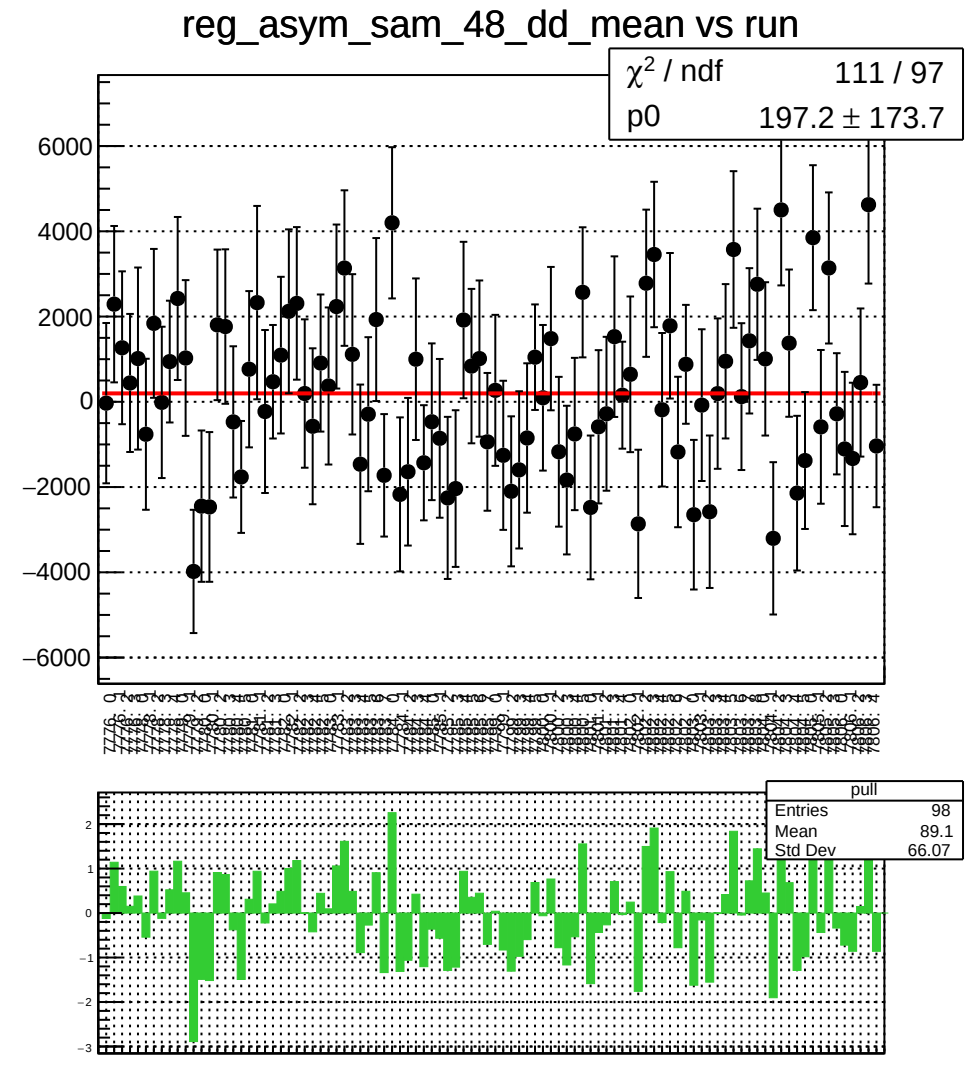

pull1D
Entries 98
Mean 0.05773
Std Dev 0.7946

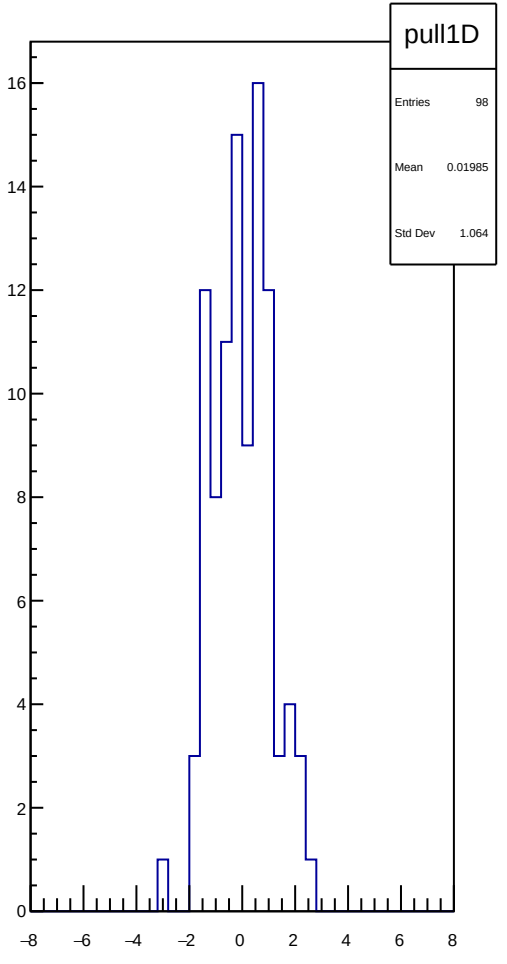

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.555e+05 / 97
p0 44.19 ± 0.03507
250
200
150
100
50

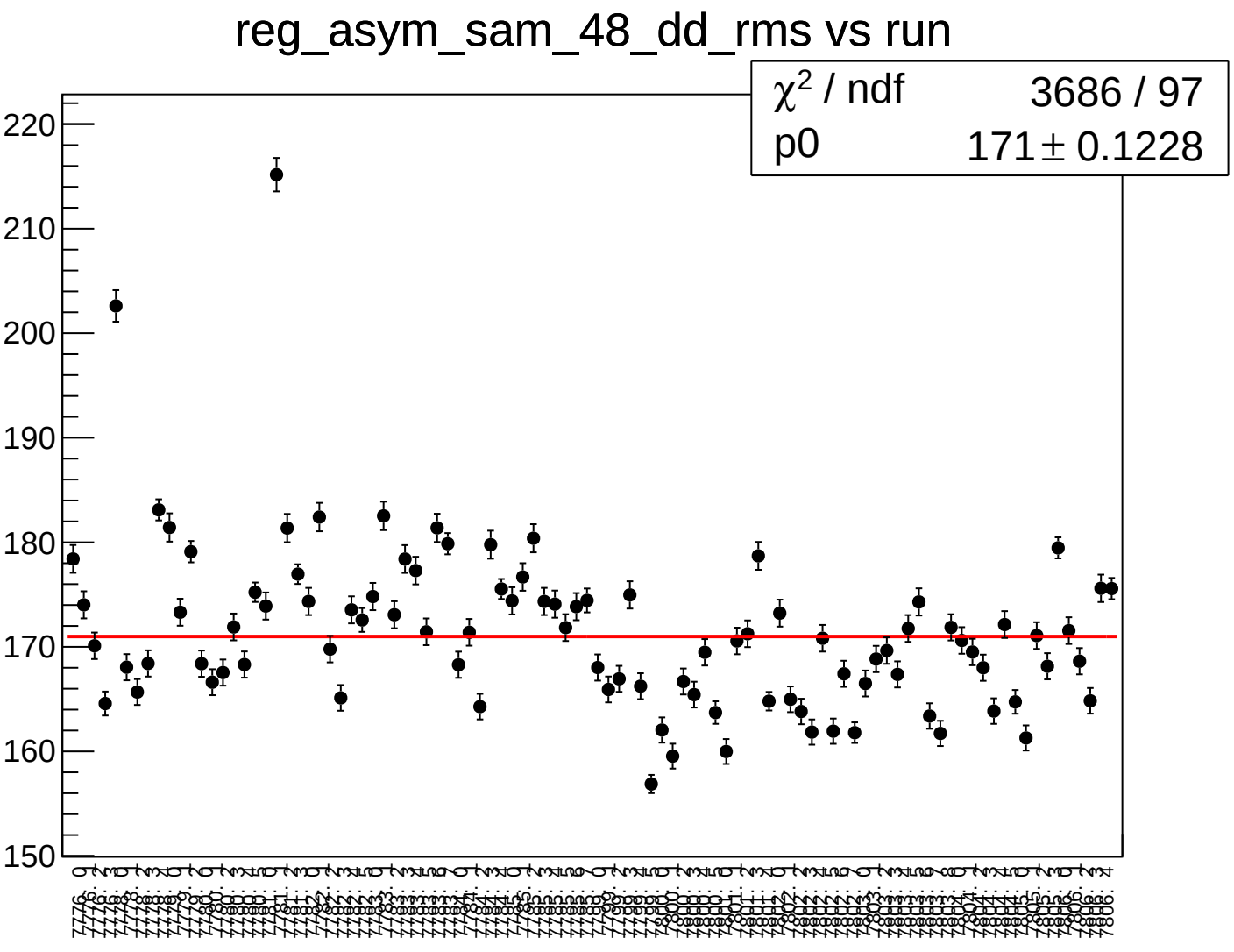

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 72.7 / 97
p0 6.4e−14 ± 1.121e−13
pull
Entries 98
Mean 29.23
Std Dev 0

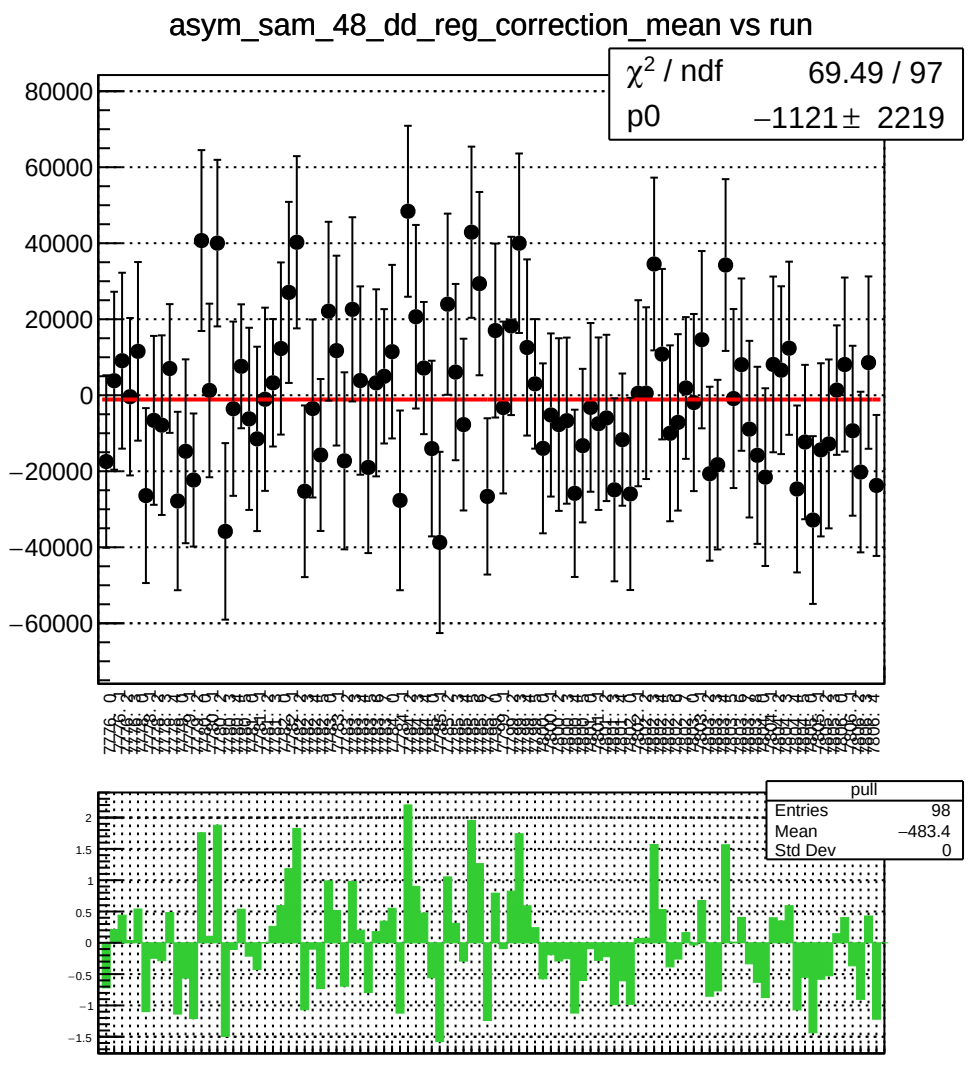

pull1D
Entries 98
Mean −0.04247
Std Dev 0.8602

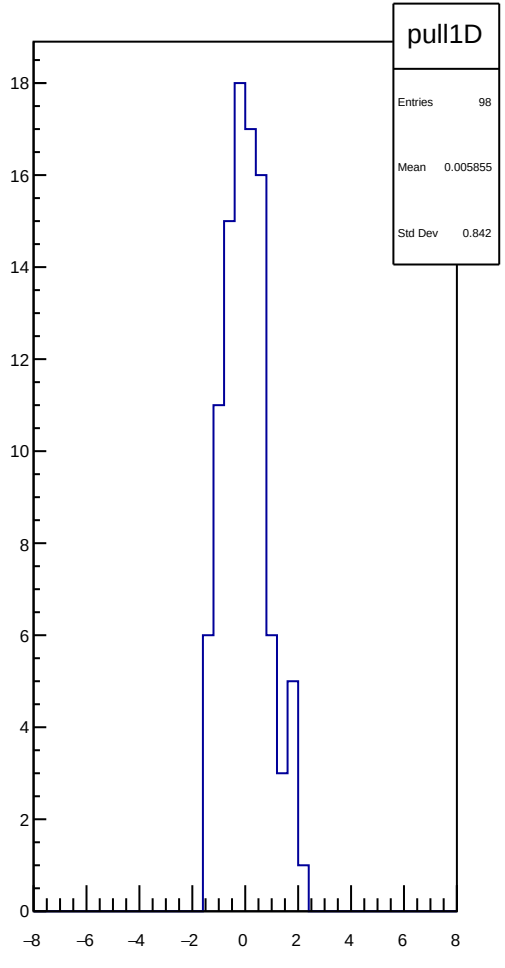

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.923e+05 / 97
p0 8.127e−11 ± 7.93e−14
0.6
0.5
0.4
0.3
0.2
0.1

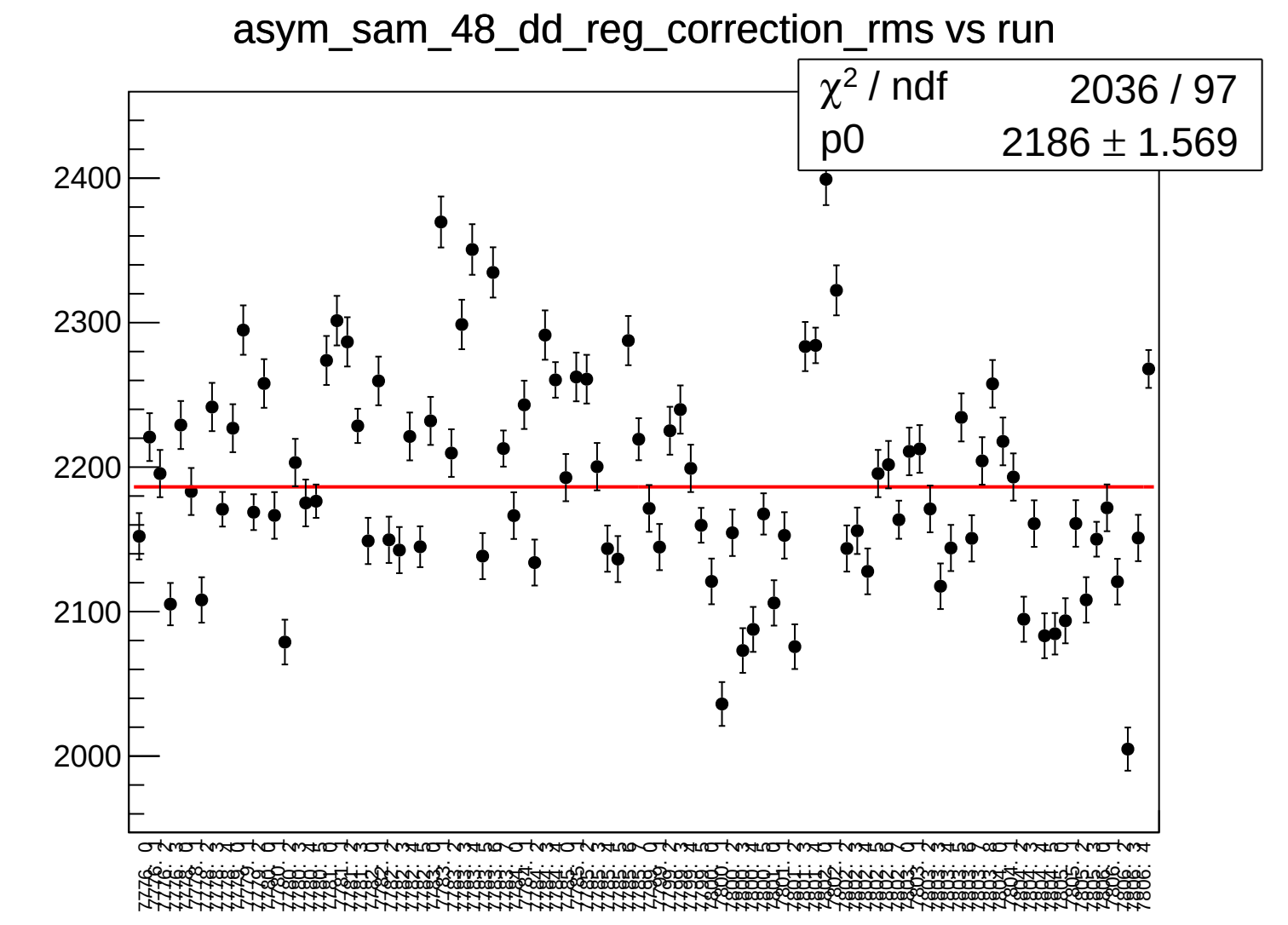

reg_asym_sam_48_dd_mean vs run
χ² / ndf 111 / 97
p0 197.2 ± 173.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 89.1
Std Dev 66.07
2
1
0
−1
−2
−3

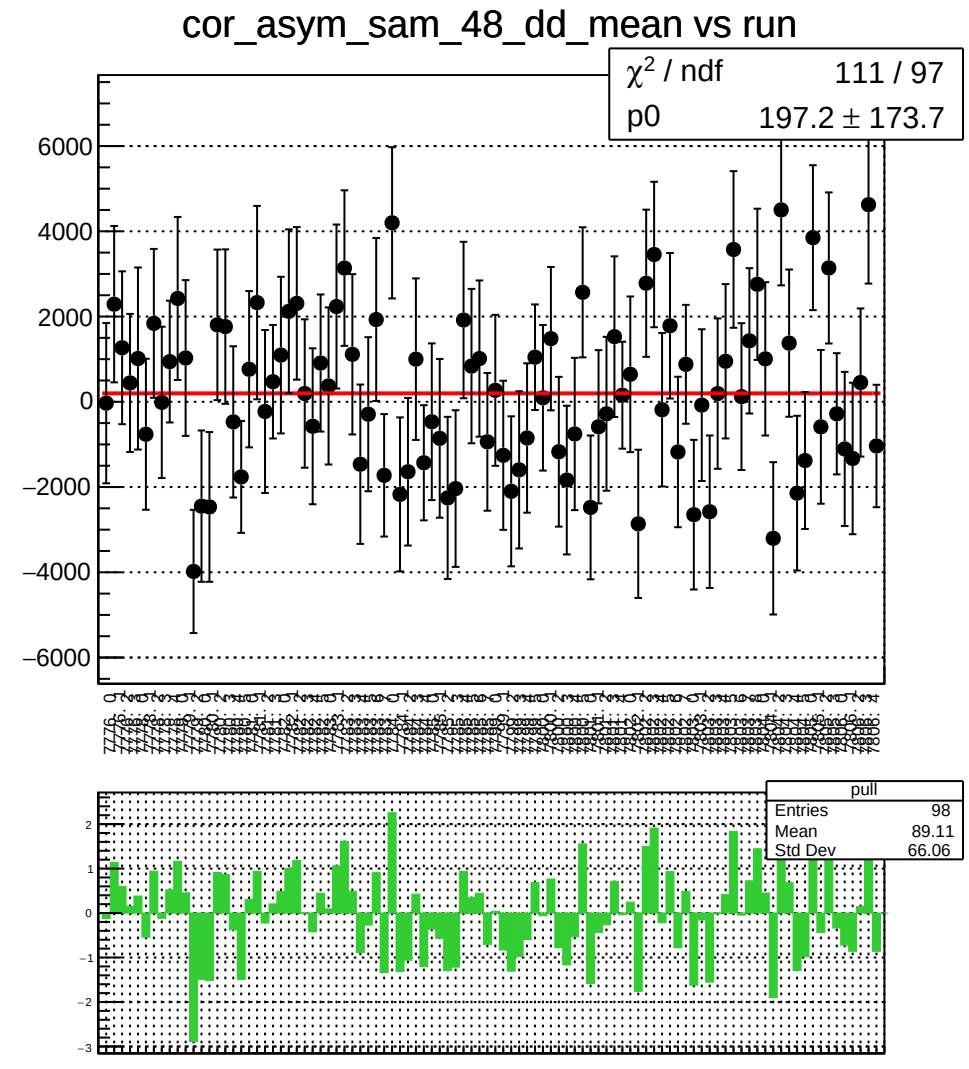

pull1D
Entries 98
Mean 0.01985
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

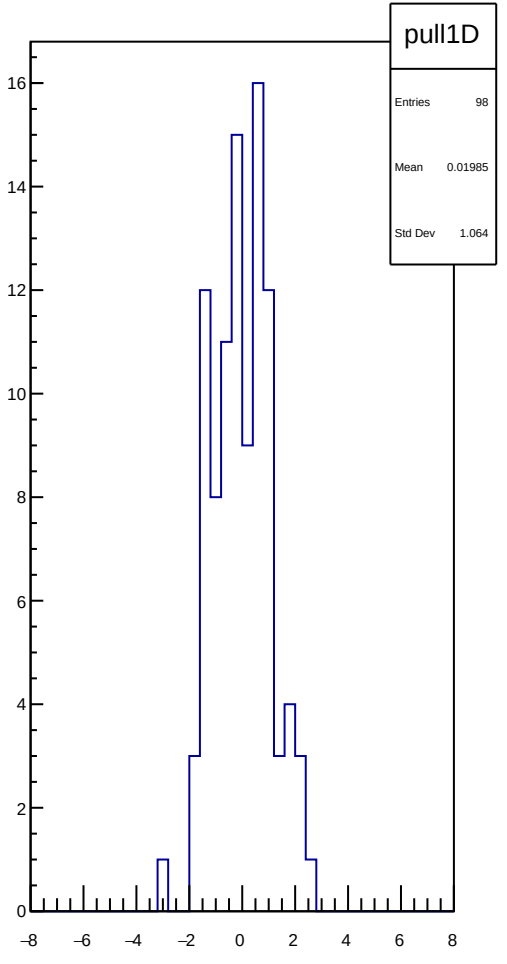

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 3686 / 97
p0 171 ± 0.1228
220
210
200
190
180
170
160
150

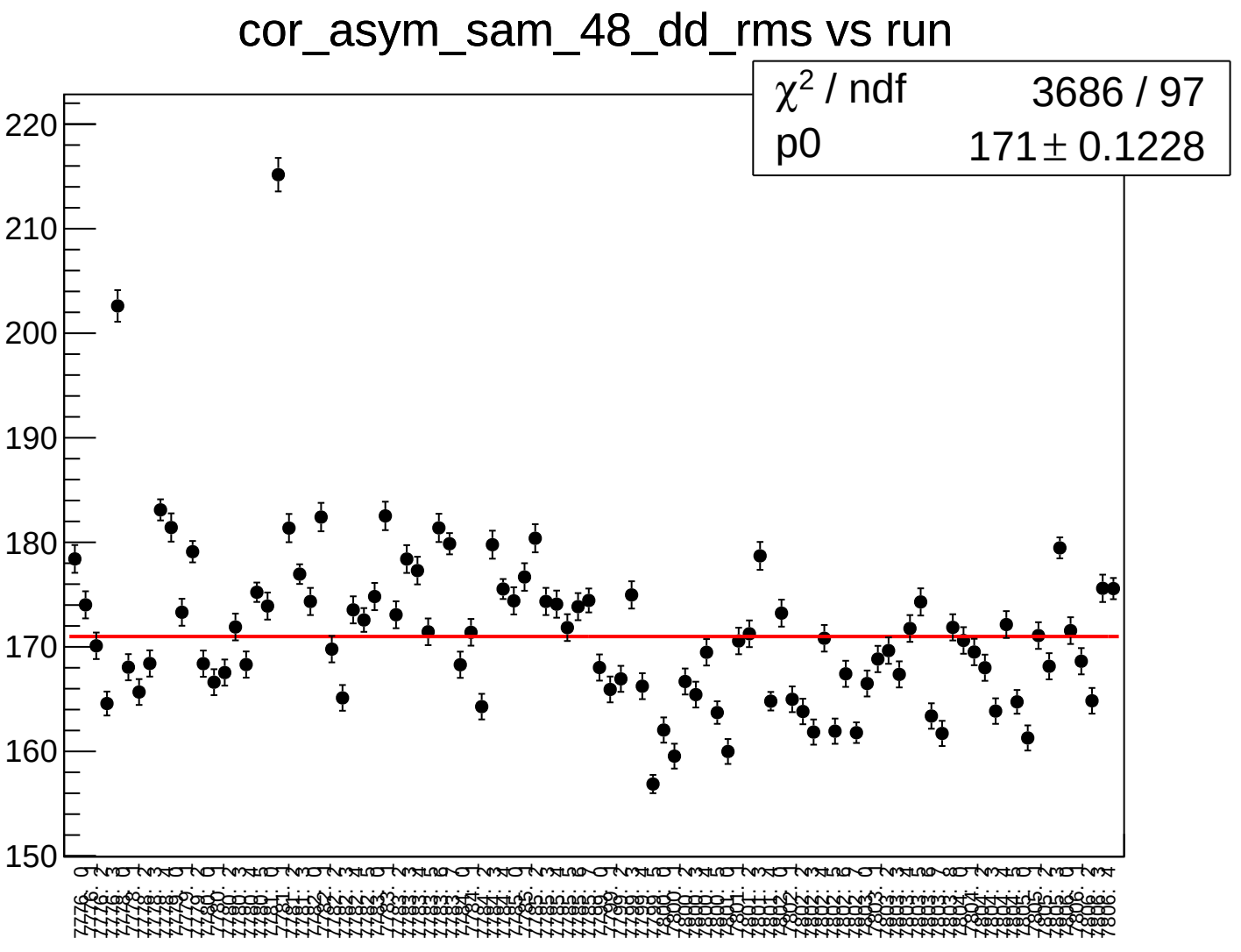

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 69.49 / 97
p0 −1121 ± 2219
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −483.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

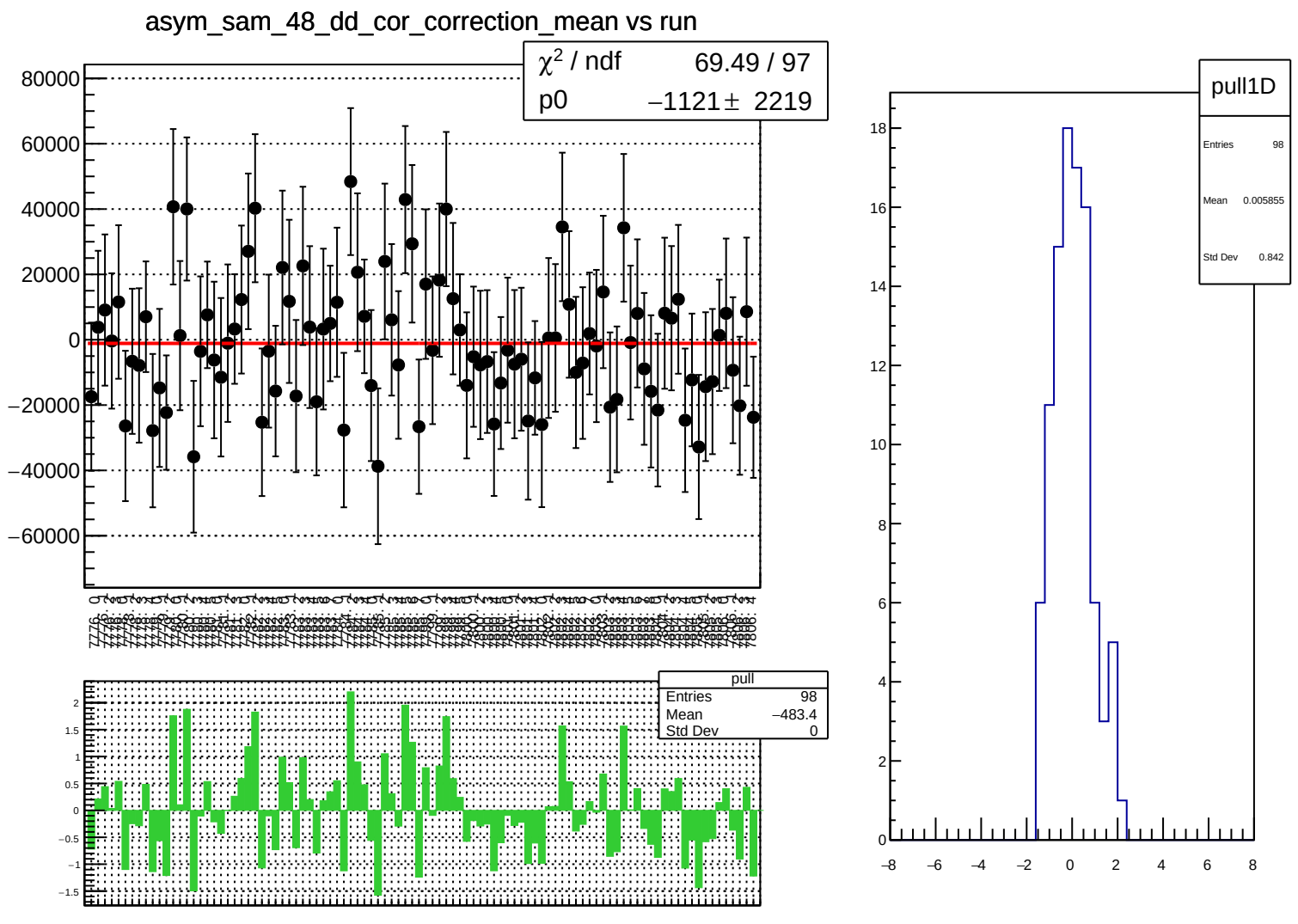

pull1D
Entries 98
Mean 0.005855
Std Dev 0.842
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 2036 / 97
p0 2186 ± 1.569
2400
2300
2200
2100
2000


cor_asym_sam_48_dd_mean vs run
χ² / ndf 111 / 97
p0 197.2 ± 173.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 89.11
Std Dev 66.06
2
1
0
−1
−2
−3


pull1D
Entries 98
Mean 0.01985
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_48_dd_rms vs run
χ² / ndf 3686 / 97
p0 171 ± 0.1228
220
210
200
190
180
170
160
150


asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 69.49 / 97
p0 −1121 ± 2219
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −483.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.005855
Std Dev 0.842
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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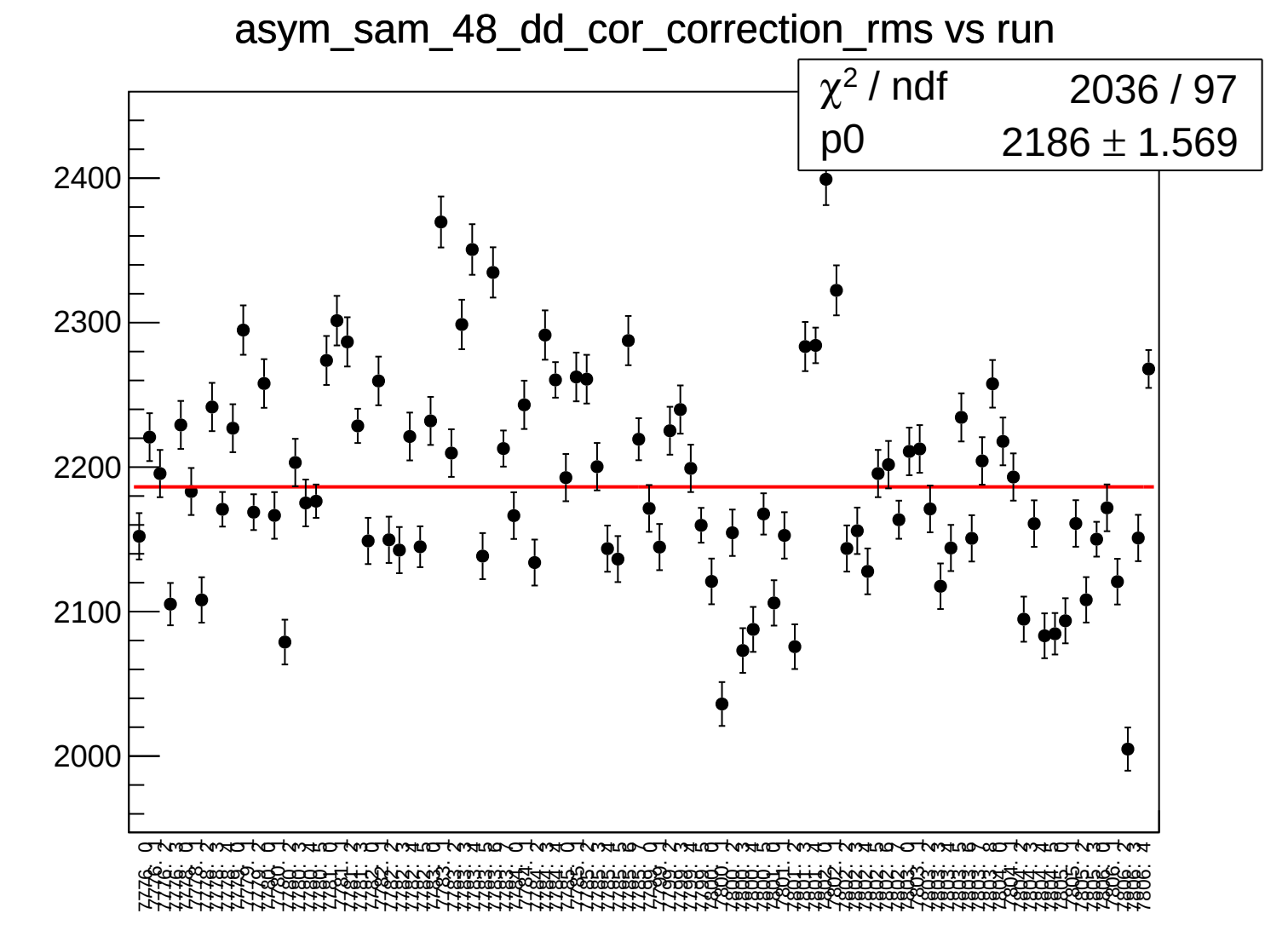
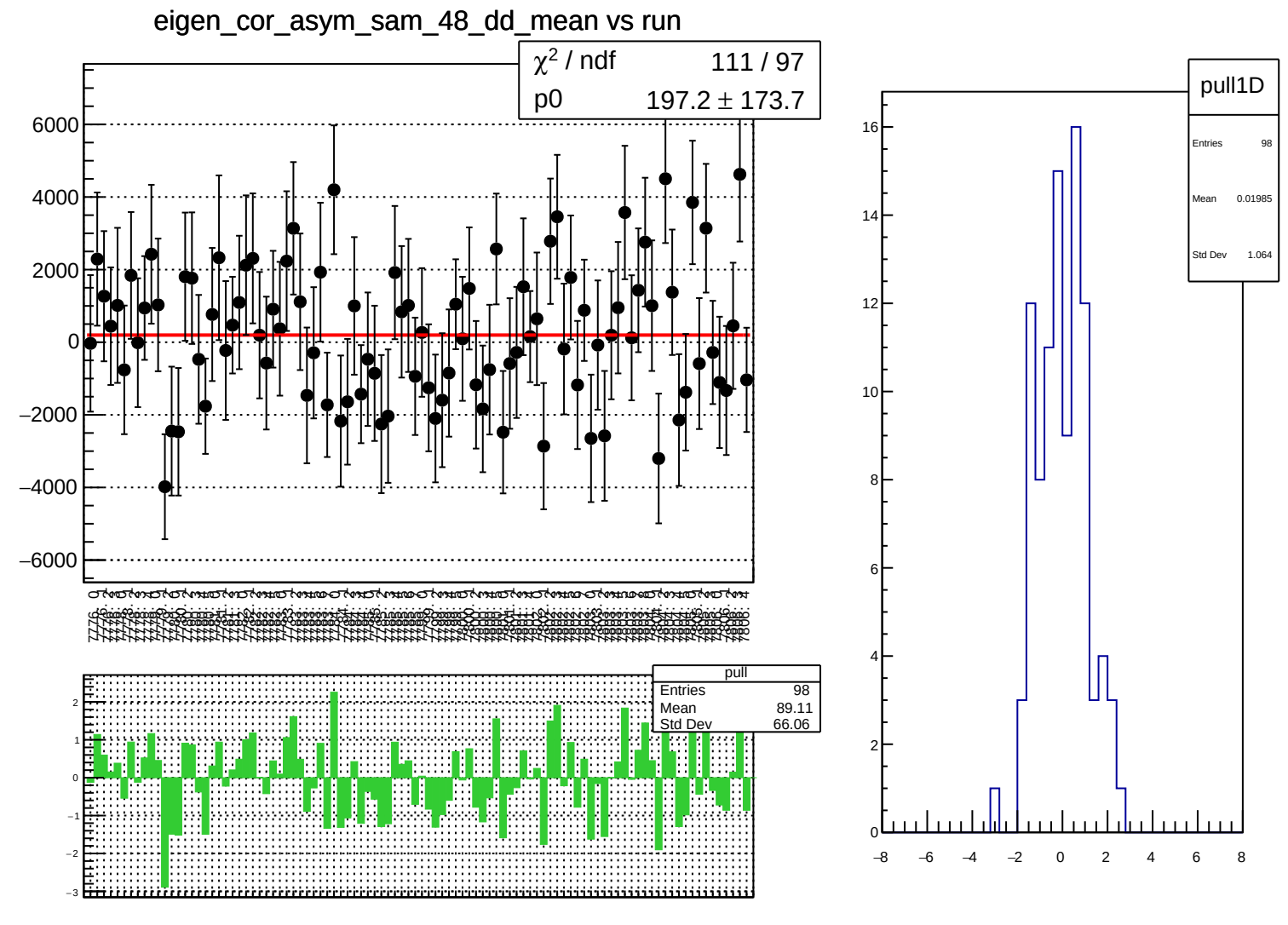
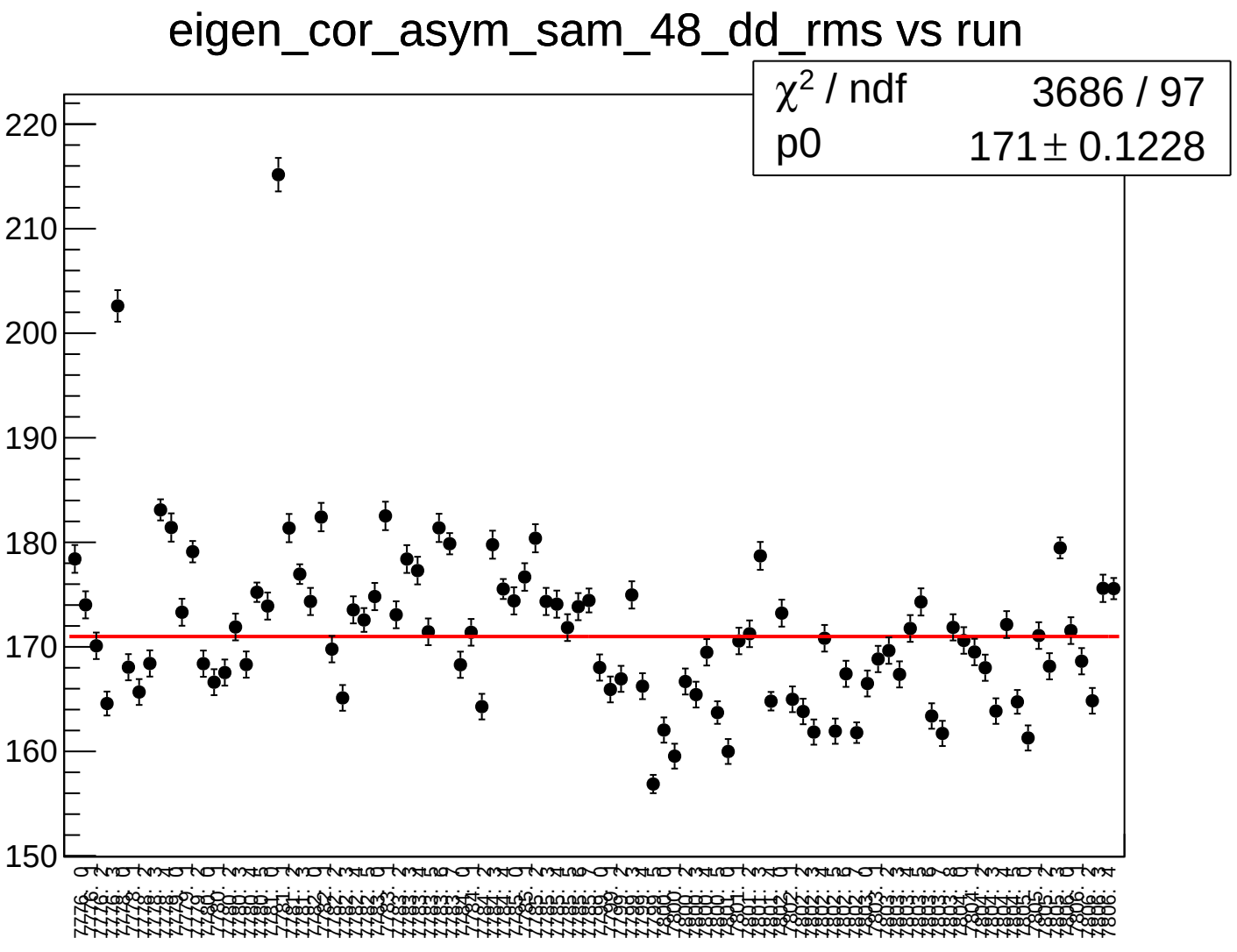
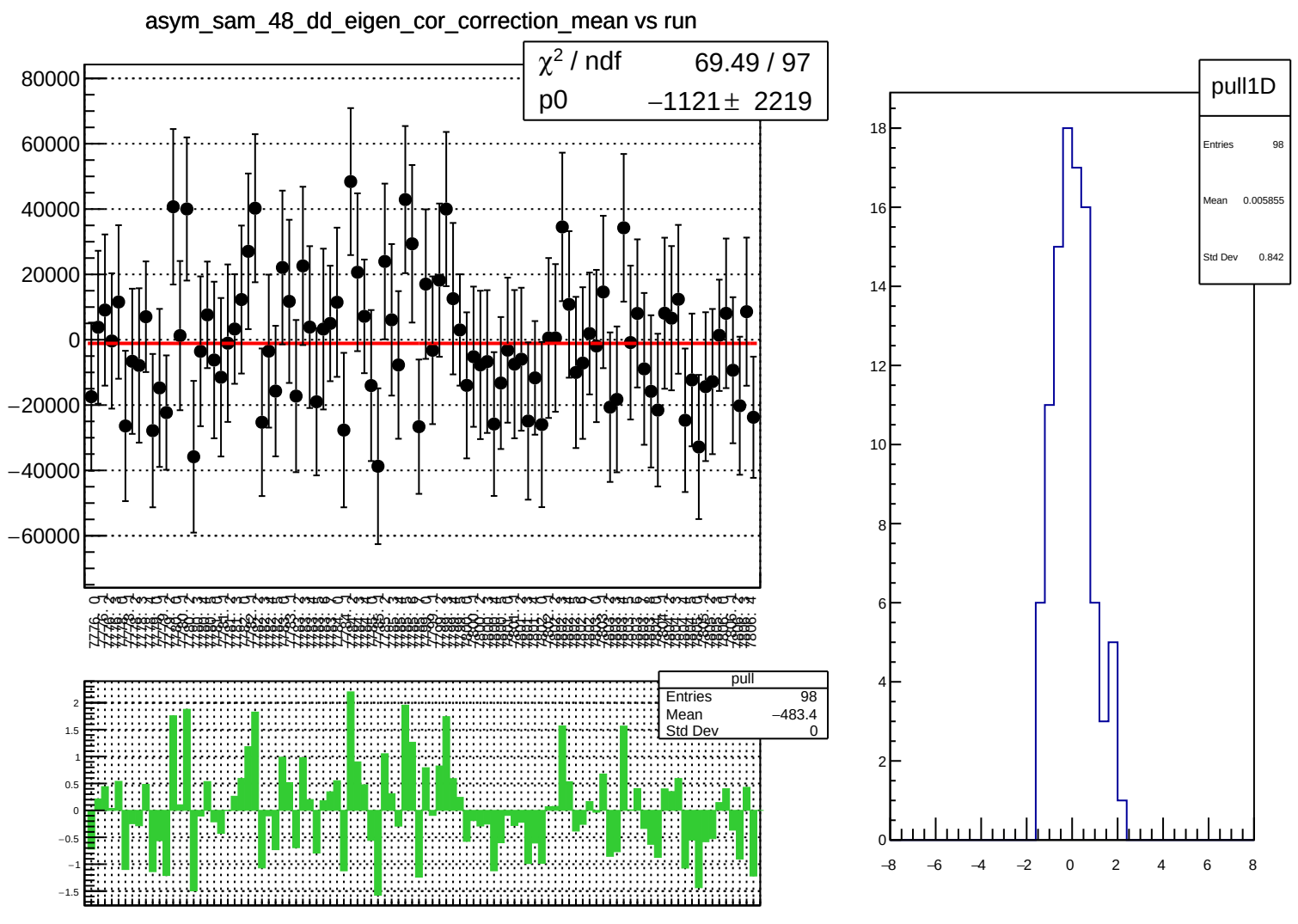
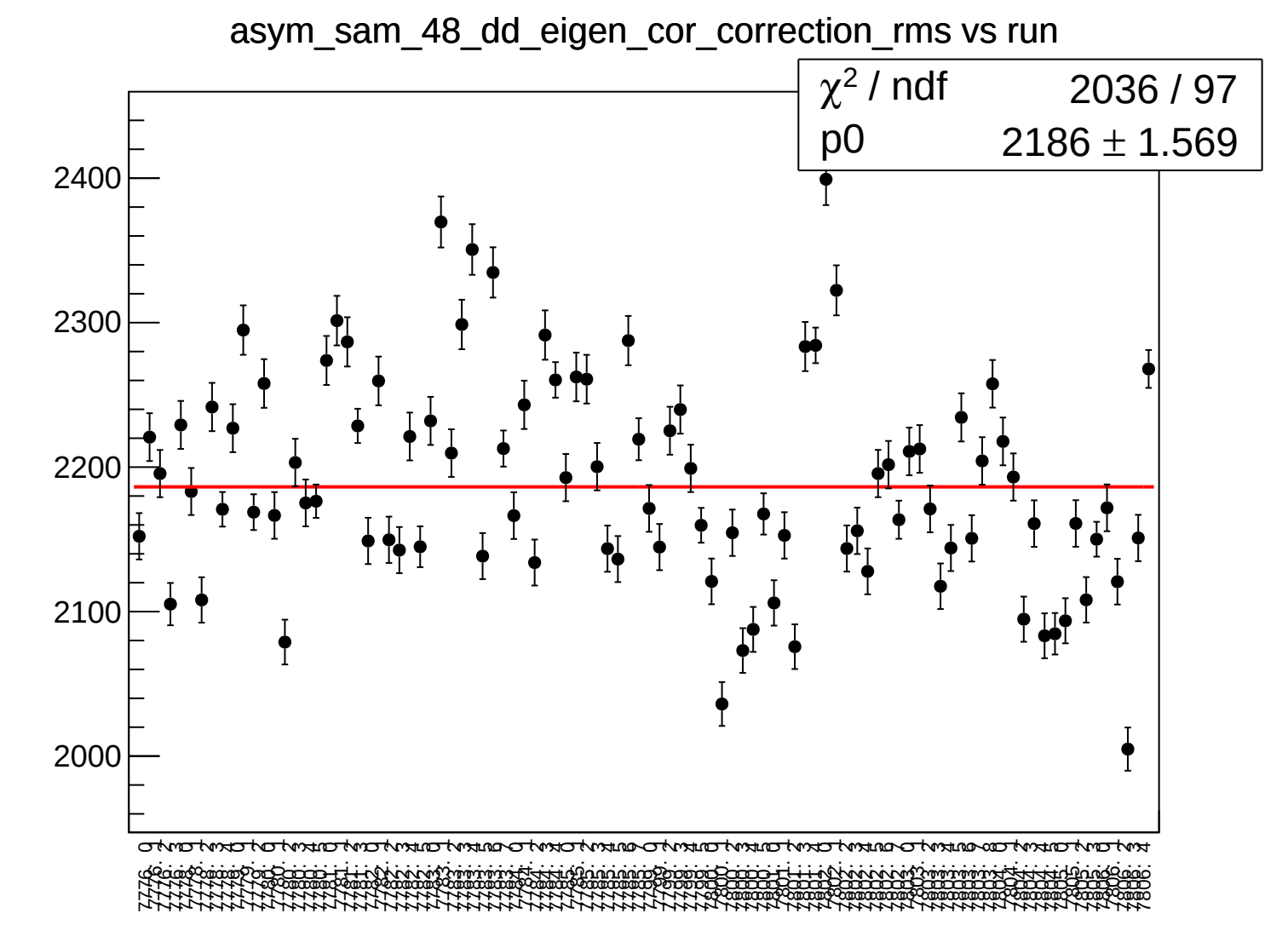
0
2
4
6
8

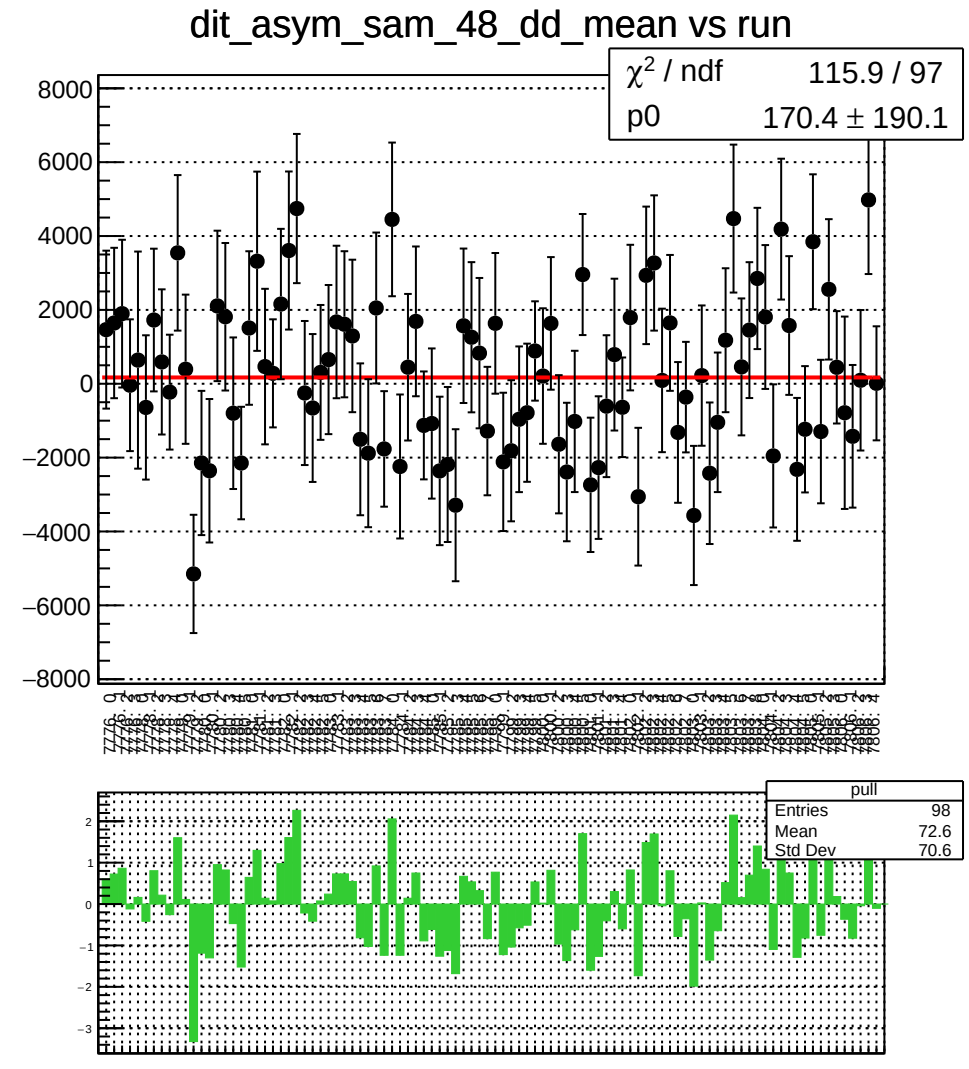

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 2036 / 97
p0 2186 ± 1.569
2400
2300
2200
2100
2000

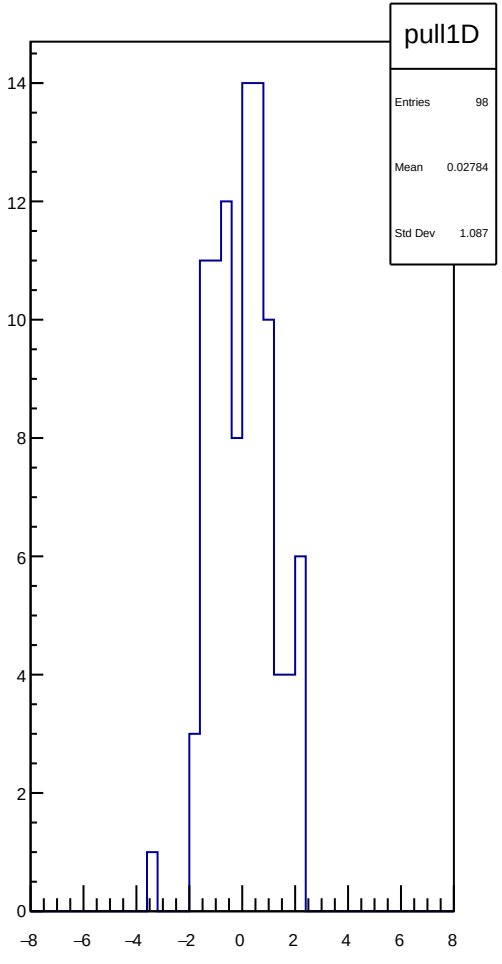

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 111 / 97
p0 197.2 ± 173.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 89.11
Std Dev 66.06
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.01985
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

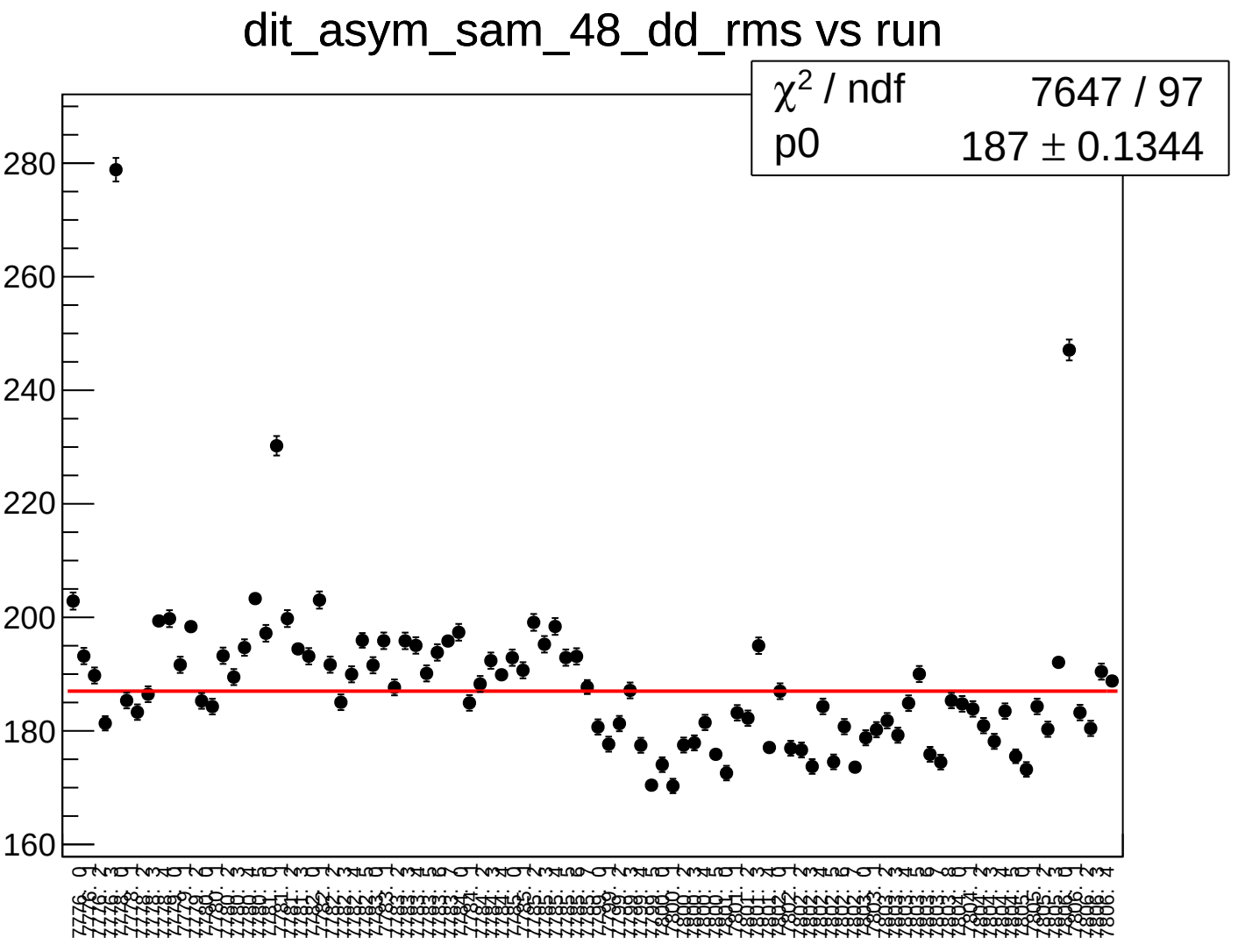

eigen_cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 3686 / 97
p0 171 ± 0.1228
220
210
200
190
180
170
160
150

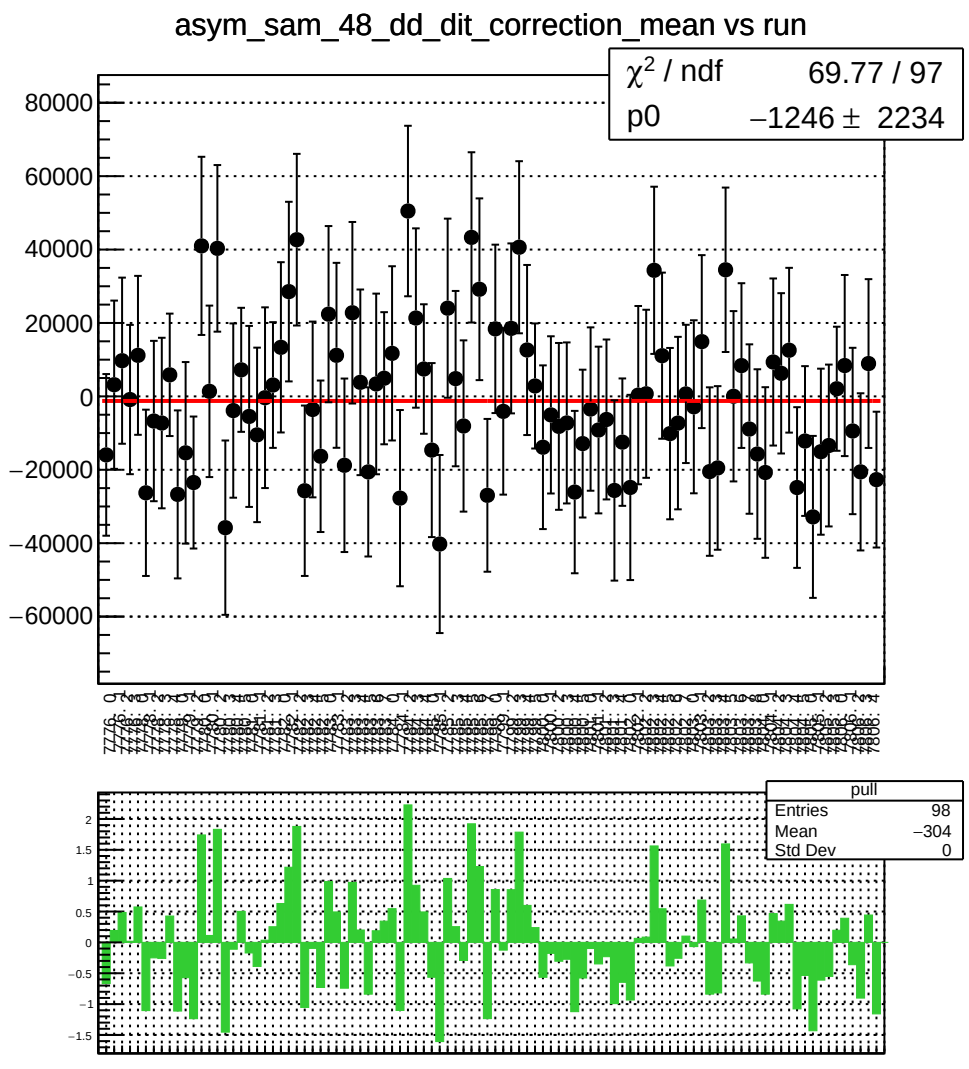

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.49 / 97
p0 −1121 ± 2219
pull
Entries 98
Mean −483.4
Std Dev 0
pull1D
Entries 98
Mean 0.005855
Std Dev 0.842

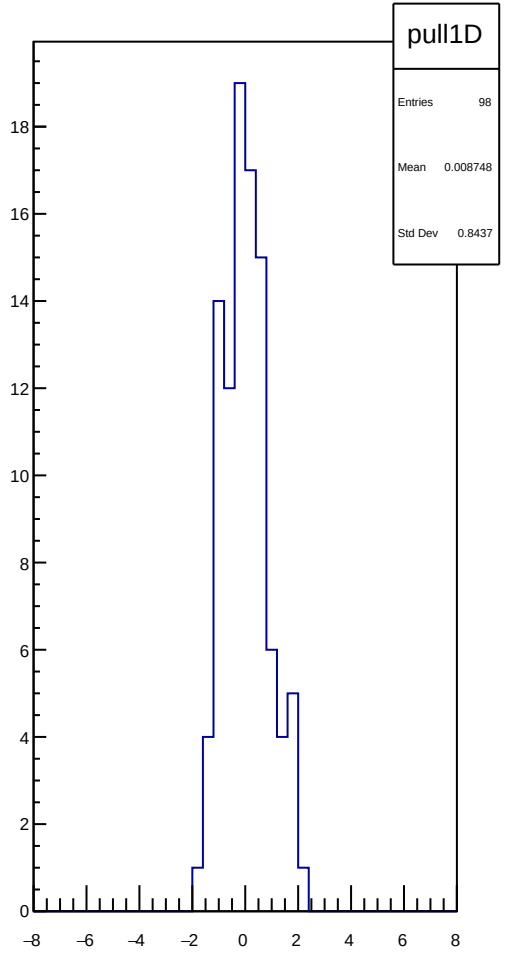

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2036 / 97
p0 2186 ± 1.569
2400
2300
2200
2100
2000

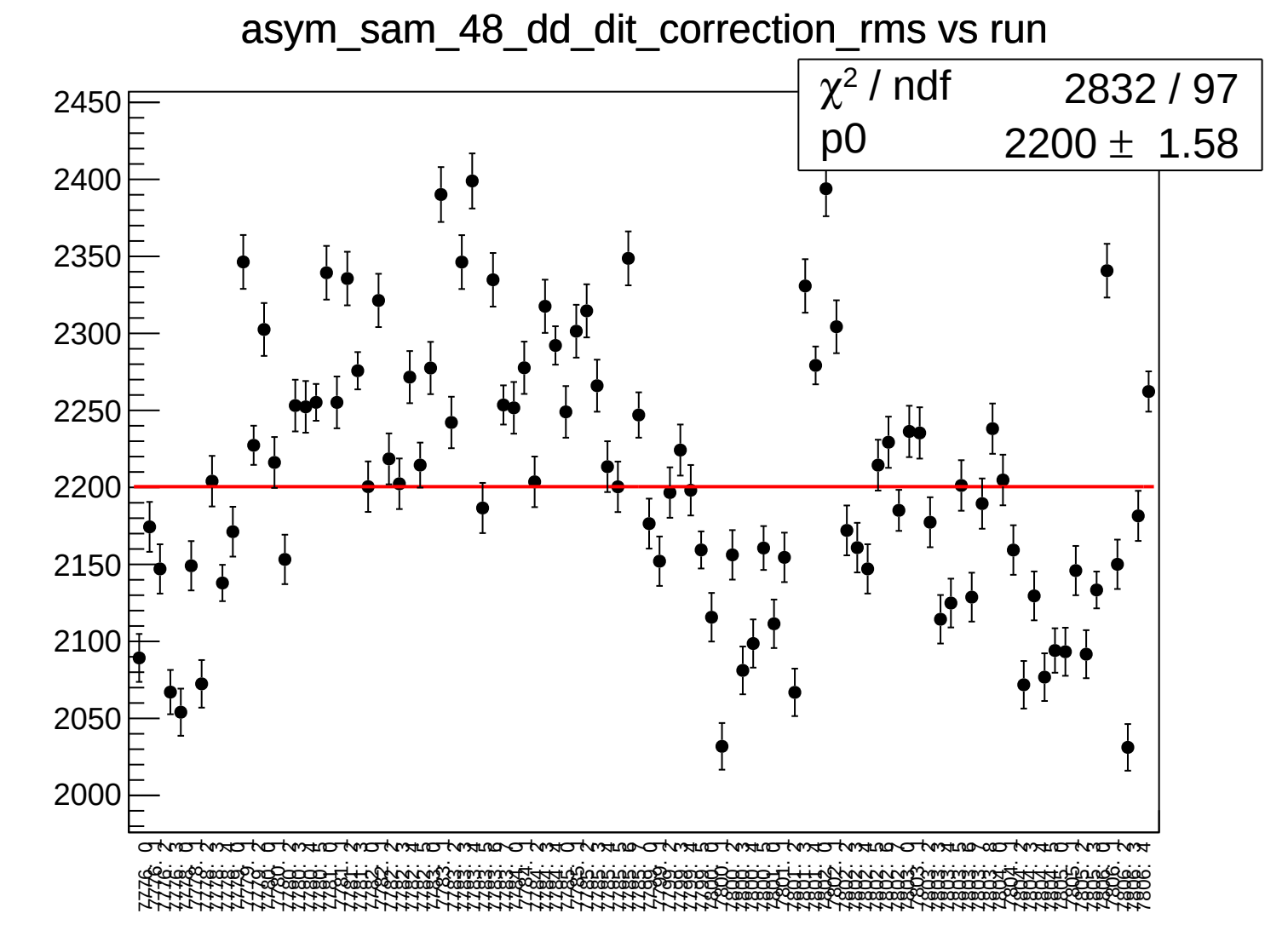

dit_asym_sam_48_dd_mean vs run
χ² / ndf 115.9 / 97
p0 170.4 ± 190.1
pull
Entries 98
Mean 72.6
Std Dev 70.6

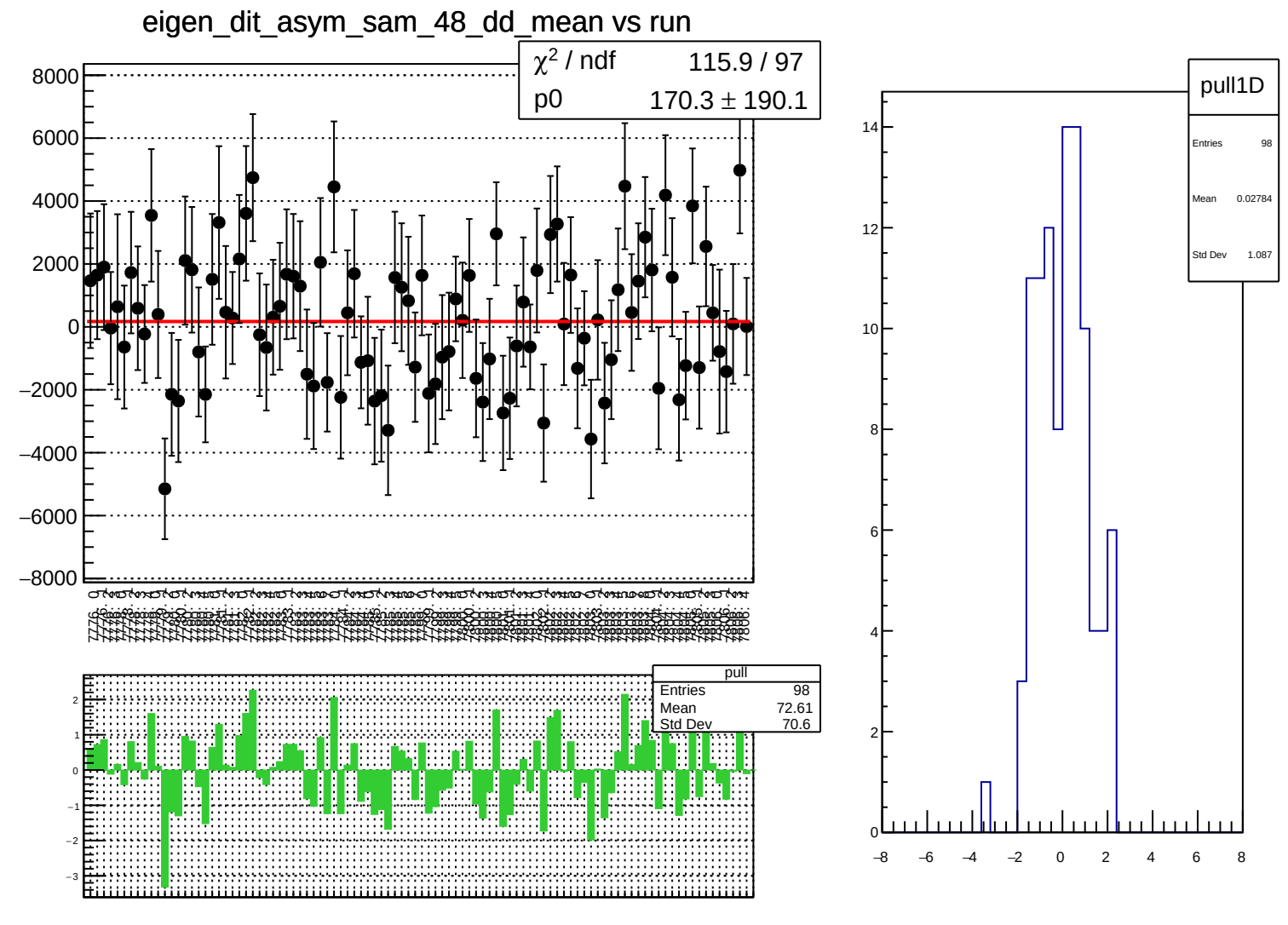

pull1D
Entries 98
Mean 0.02784
Std Dev 1.087

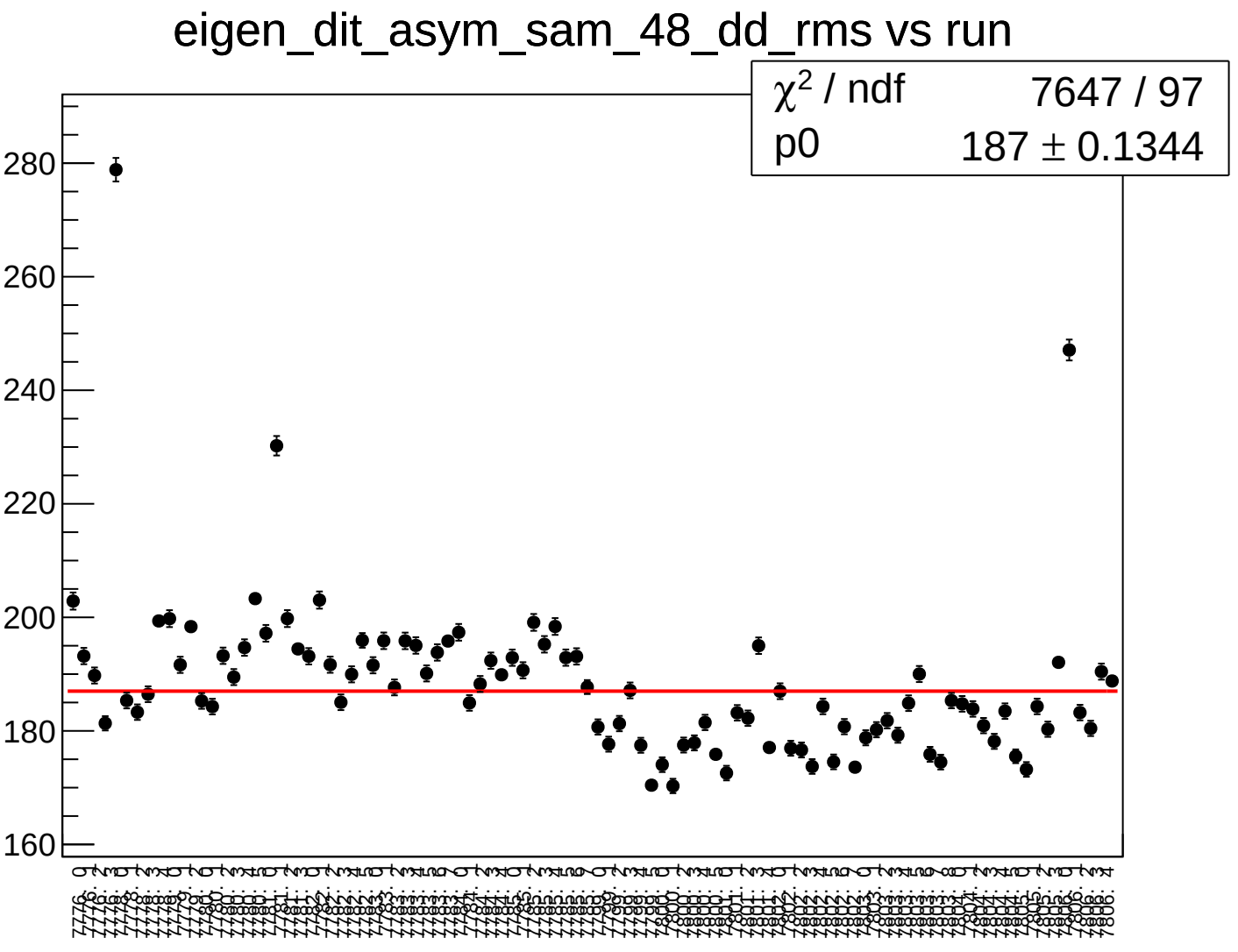

dit_asym_sam_48_dd_rms vs run
χ² / ndf 7647 / 97
p0 187 ± 0.1344
280
260
240
220
200
180
160

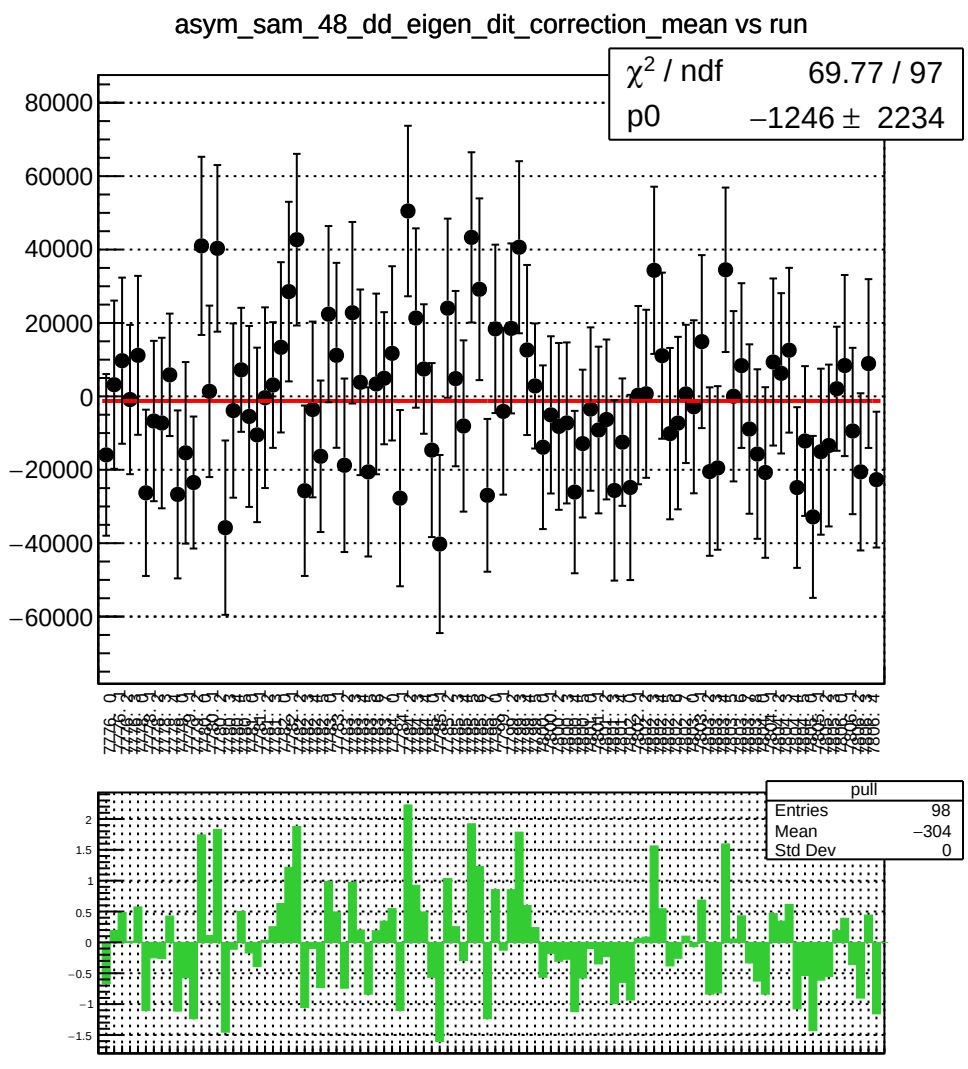

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 69.77 / 97
p0 −1246 ± 2234
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −304
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

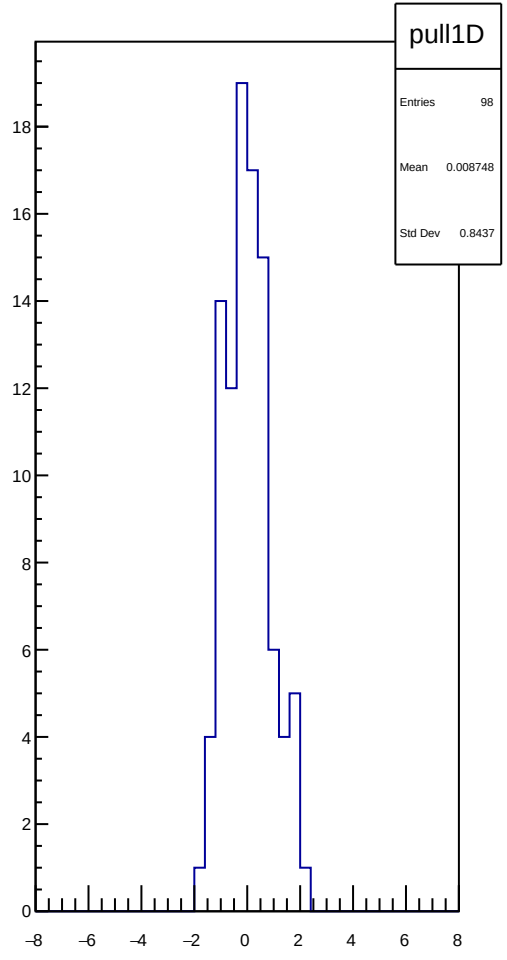

pull1D
Entries 98
Mean 0.008748
Std Dev 0.8437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

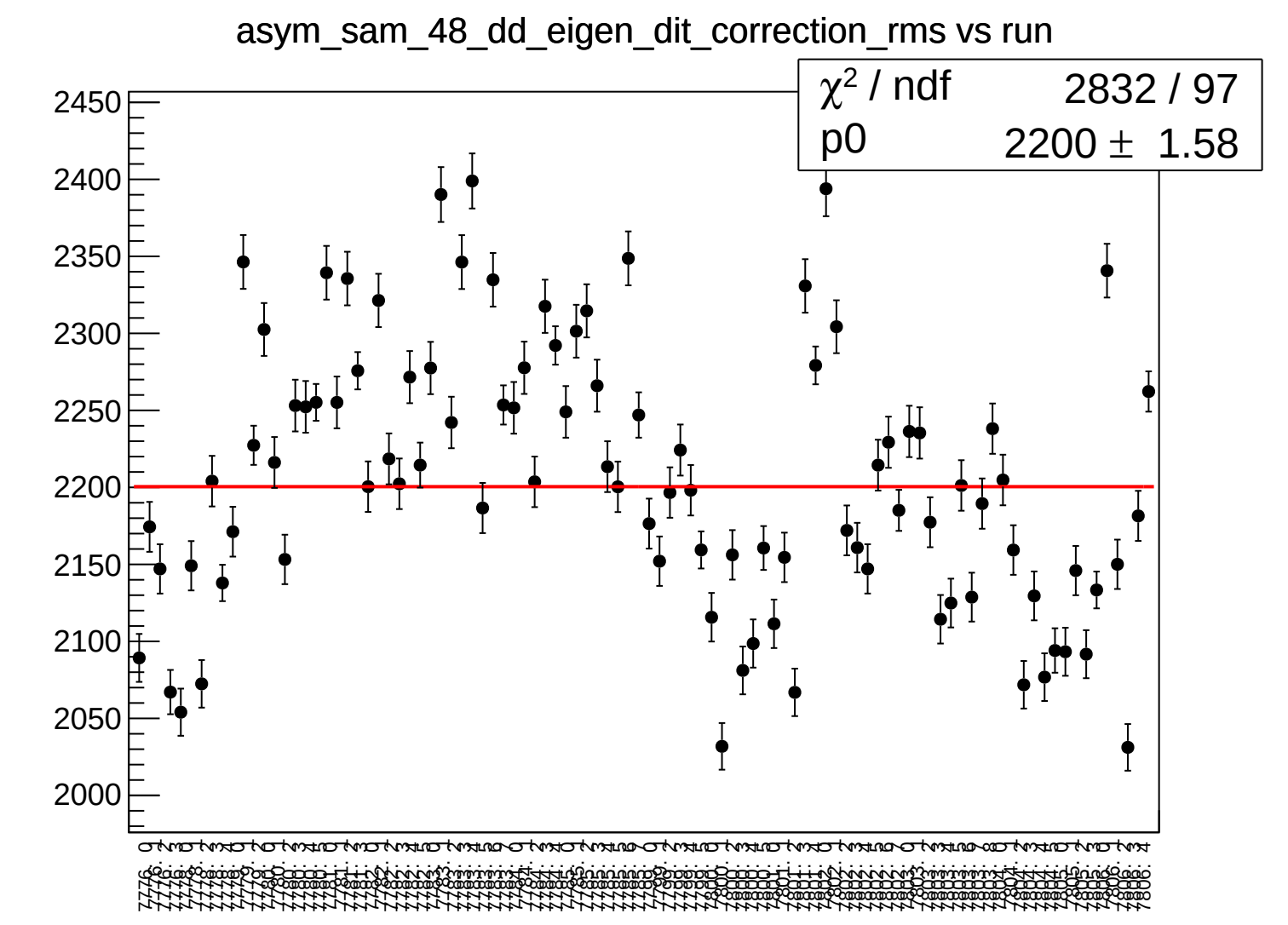

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2832 / 97
p0 2200 ± 1.58
2450
2400
2350
2300
2250
2200
2150
2100
2050
2000

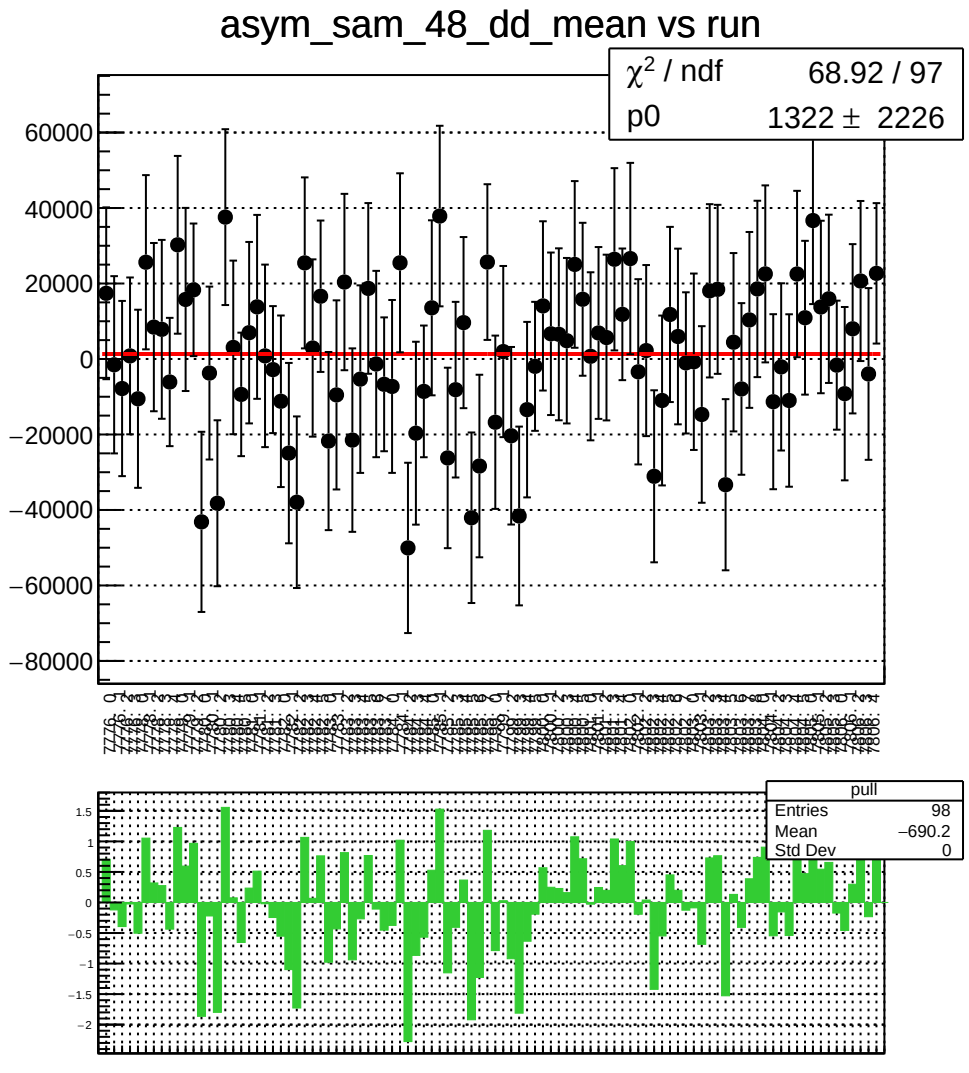

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 115.9 / 97
p0 170.3 ± 190.1
pull
Entries 98
Mean 72.61
Std Dev 70.6
pull1D
Entries 98
Mean 0.02784
Std Dev 1.087

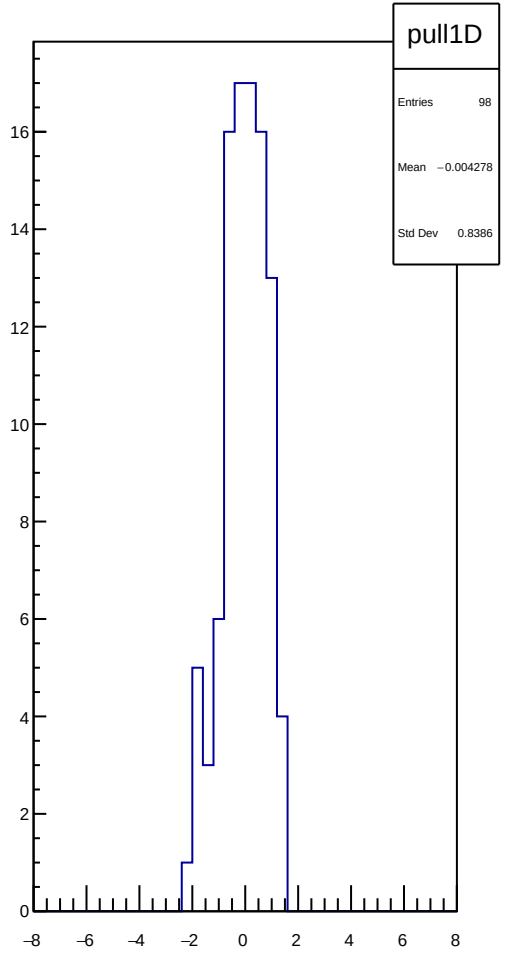

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 7647 / 97
p0 187 ± 0.1344
280
260
240
220
200
180
160

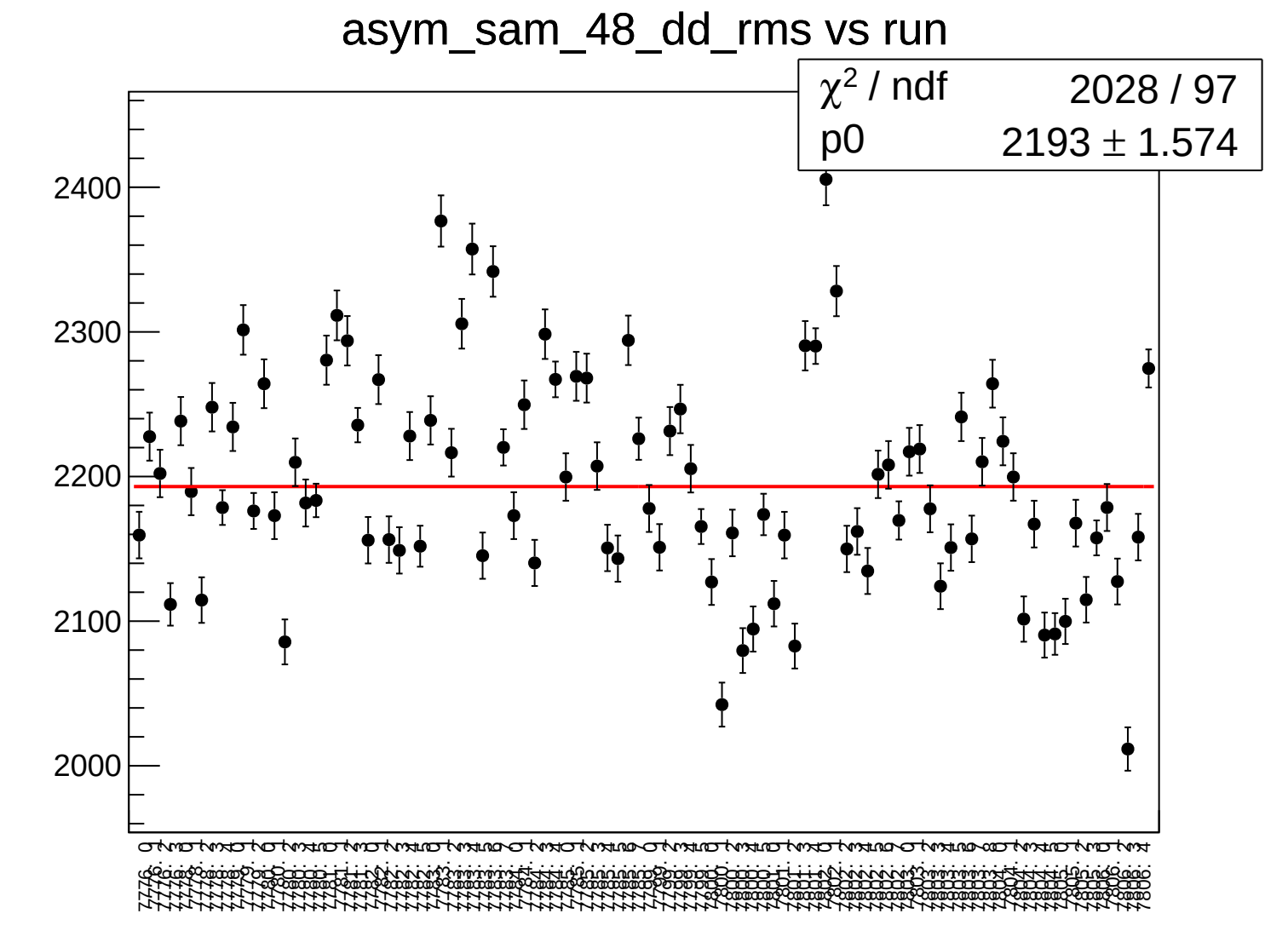

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.77 / 97
p0 −1246 ± 2234
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −304
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

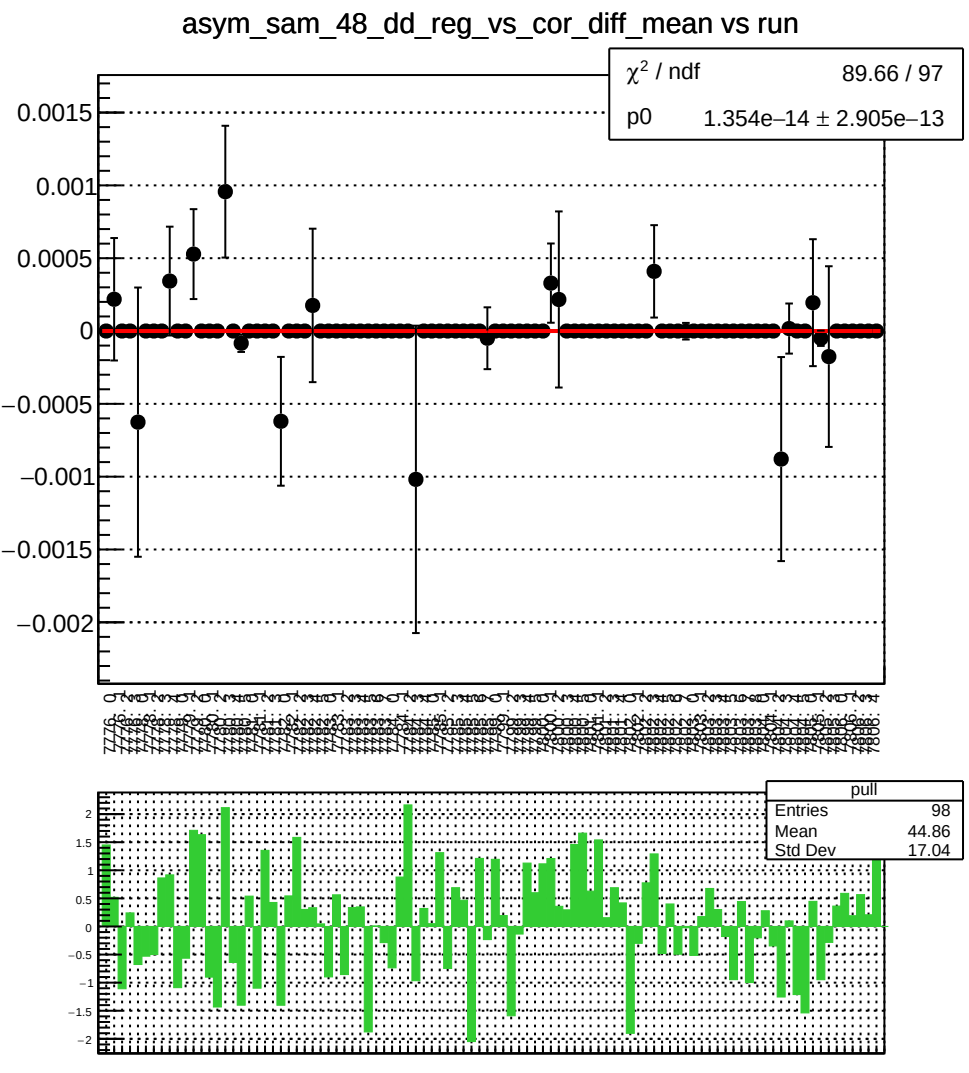

pull1D
Entries 98
Mean 0.008748
Std Dev 0.8437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

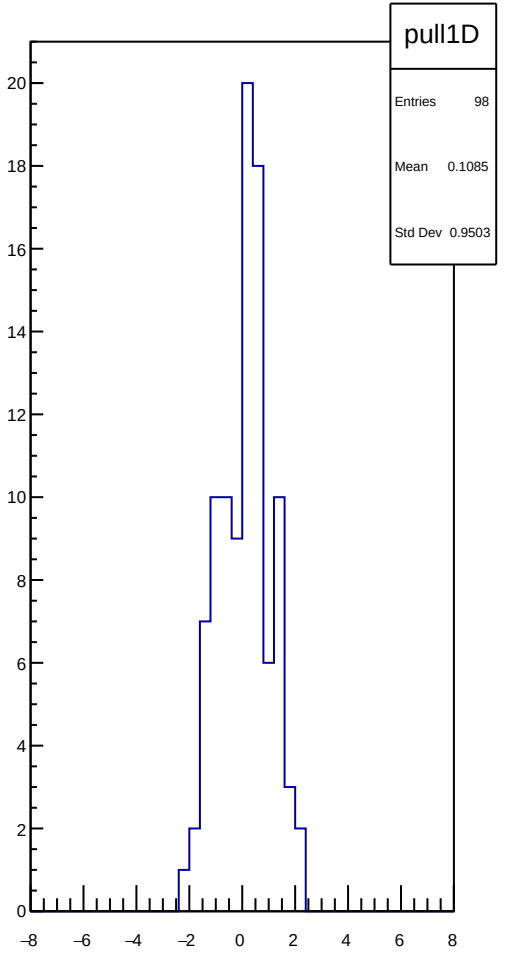

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2832 / 97
p0 2200 ± 1.58
2450
2400
2350
2300
2250
2200
2150
2100
2050
2000

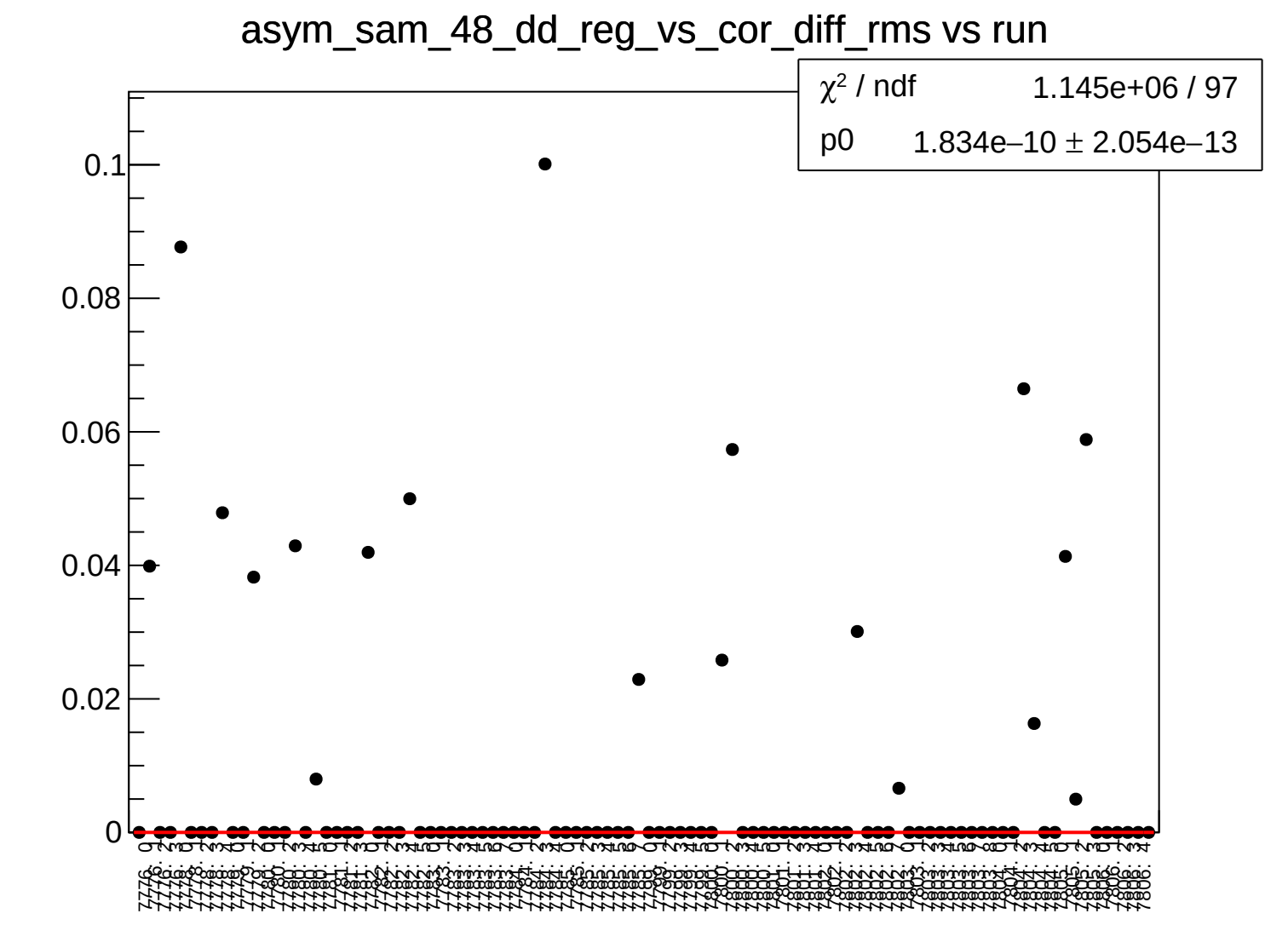

asym_sam_48_dd_mean vs run
χ² / ndf 68.92 / 97
p0 1322 ± 2226
pull
Entries 98
Mean −690.2
Std Dev 0

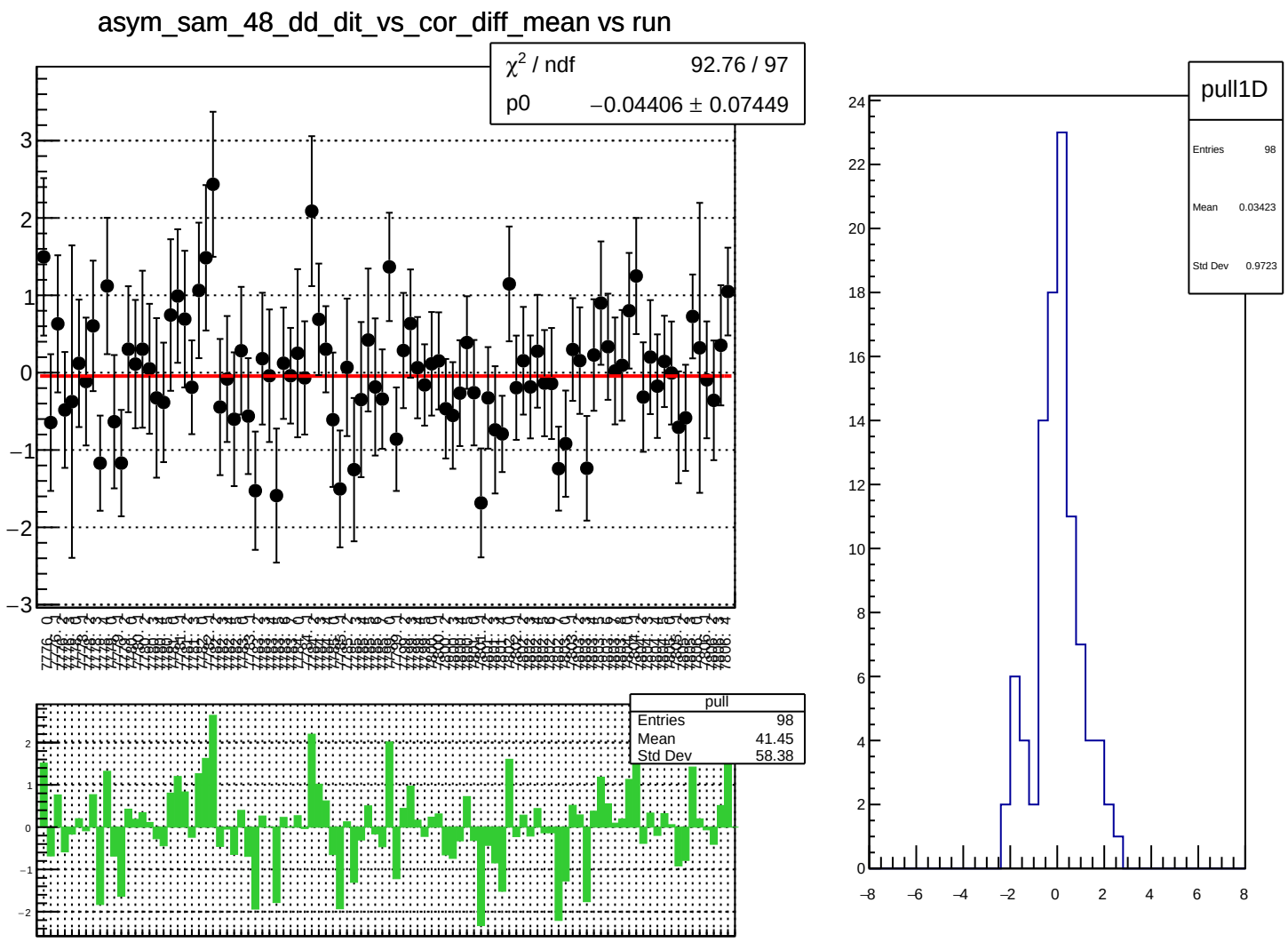

pull1D
Entries 98
Mean −0.004278
Std Dev 0.8386

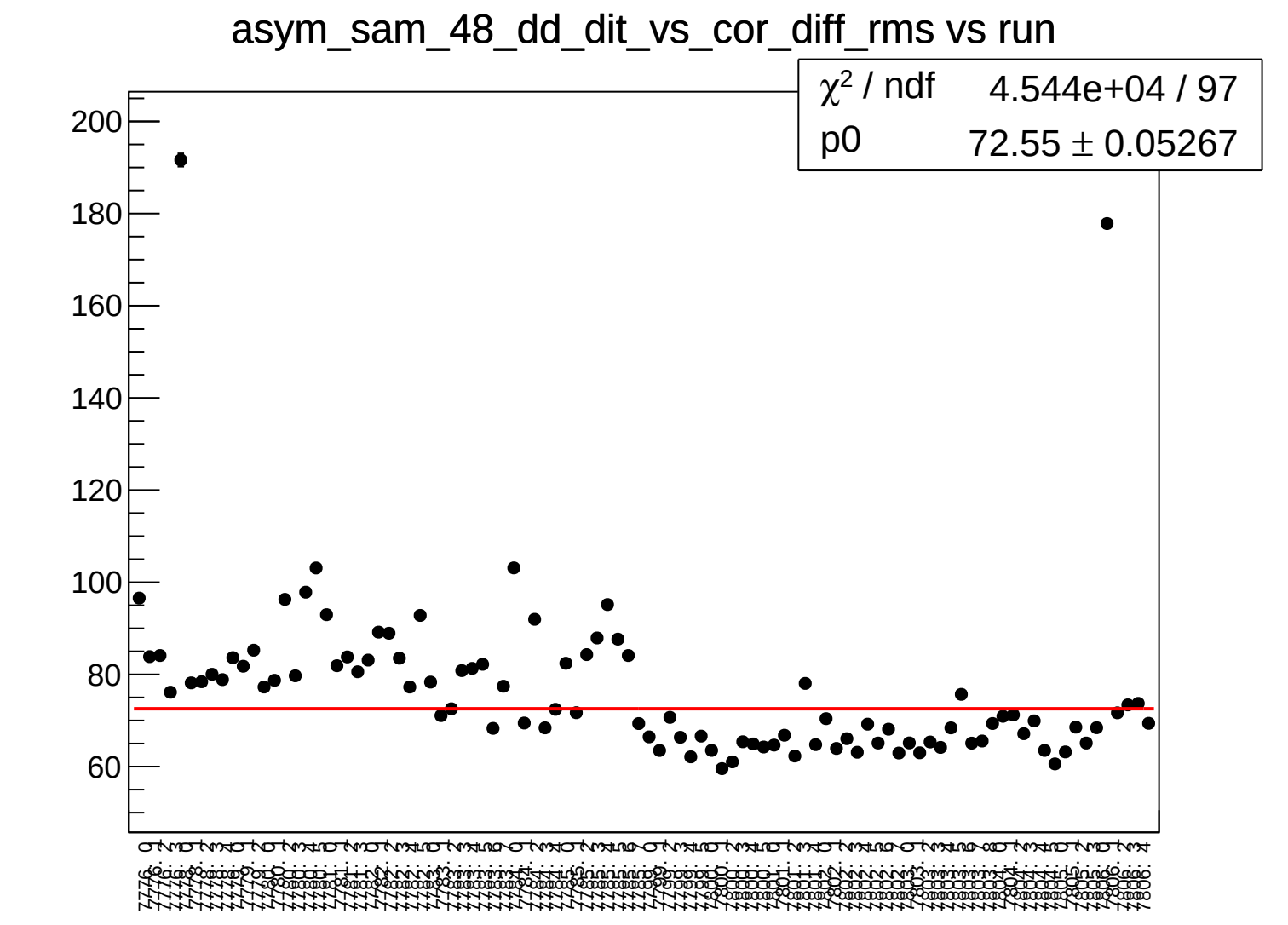

asym_sam_48_dd_rms vs run
χ² / ndf 2028 / 97
p0 2193 ± 1.574
2400
2300
2200
2100
2000

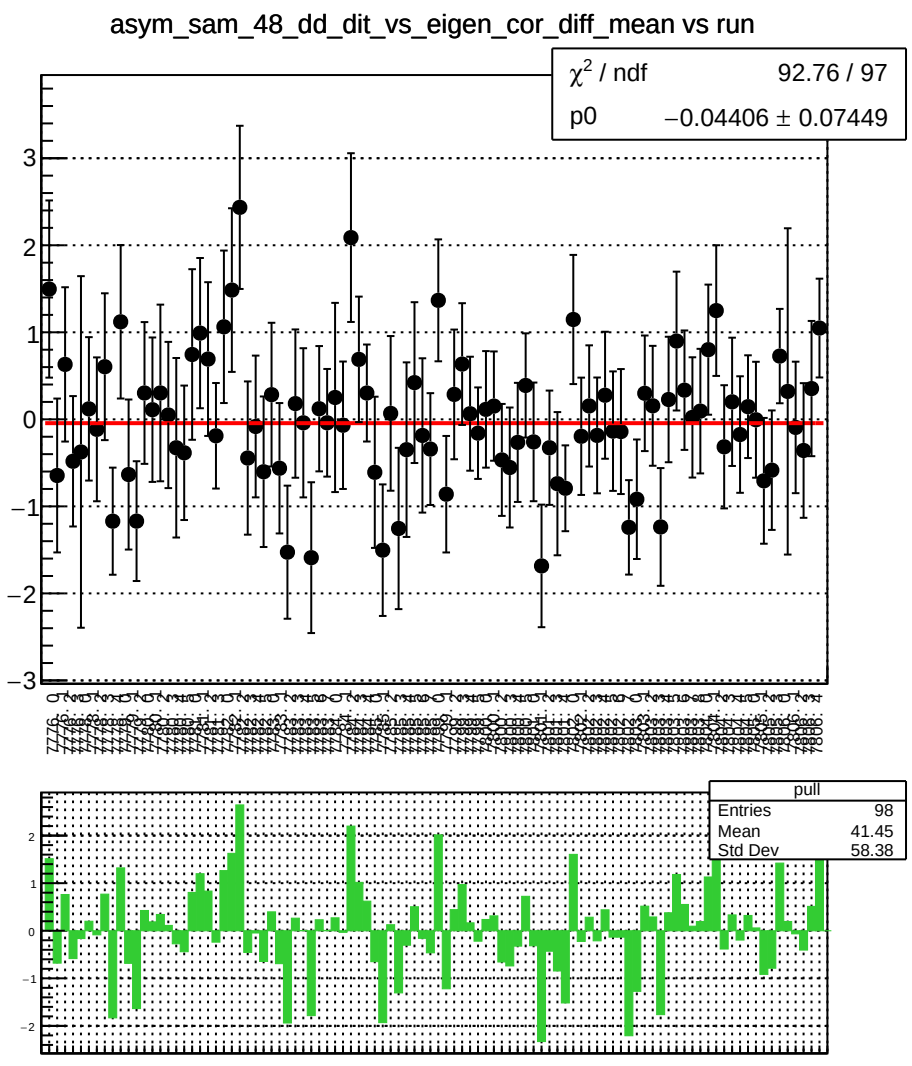

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.66 / 97
p0 1.354e−14 ± 2.905e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 98
Mean 44.86
Std Dev 17.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

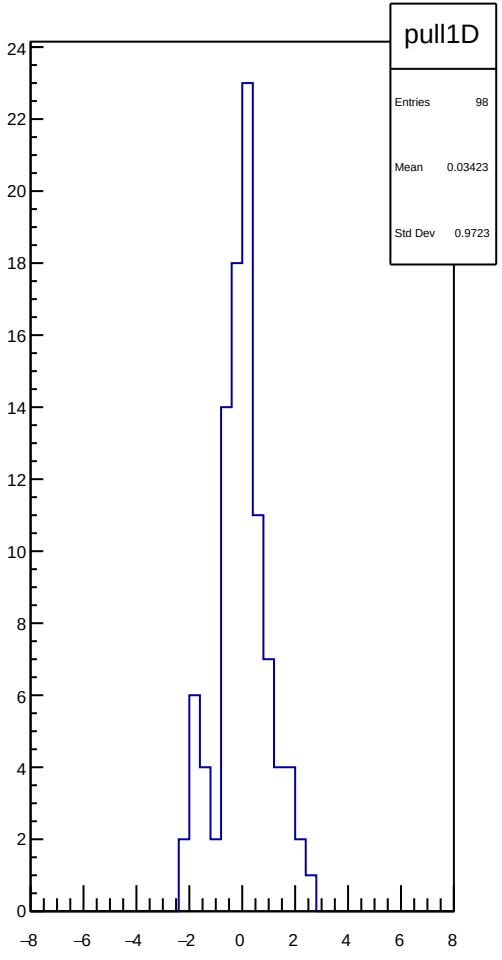

pull1D
Entries 98
Mean 0.1085
Std Dev 0.9503
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

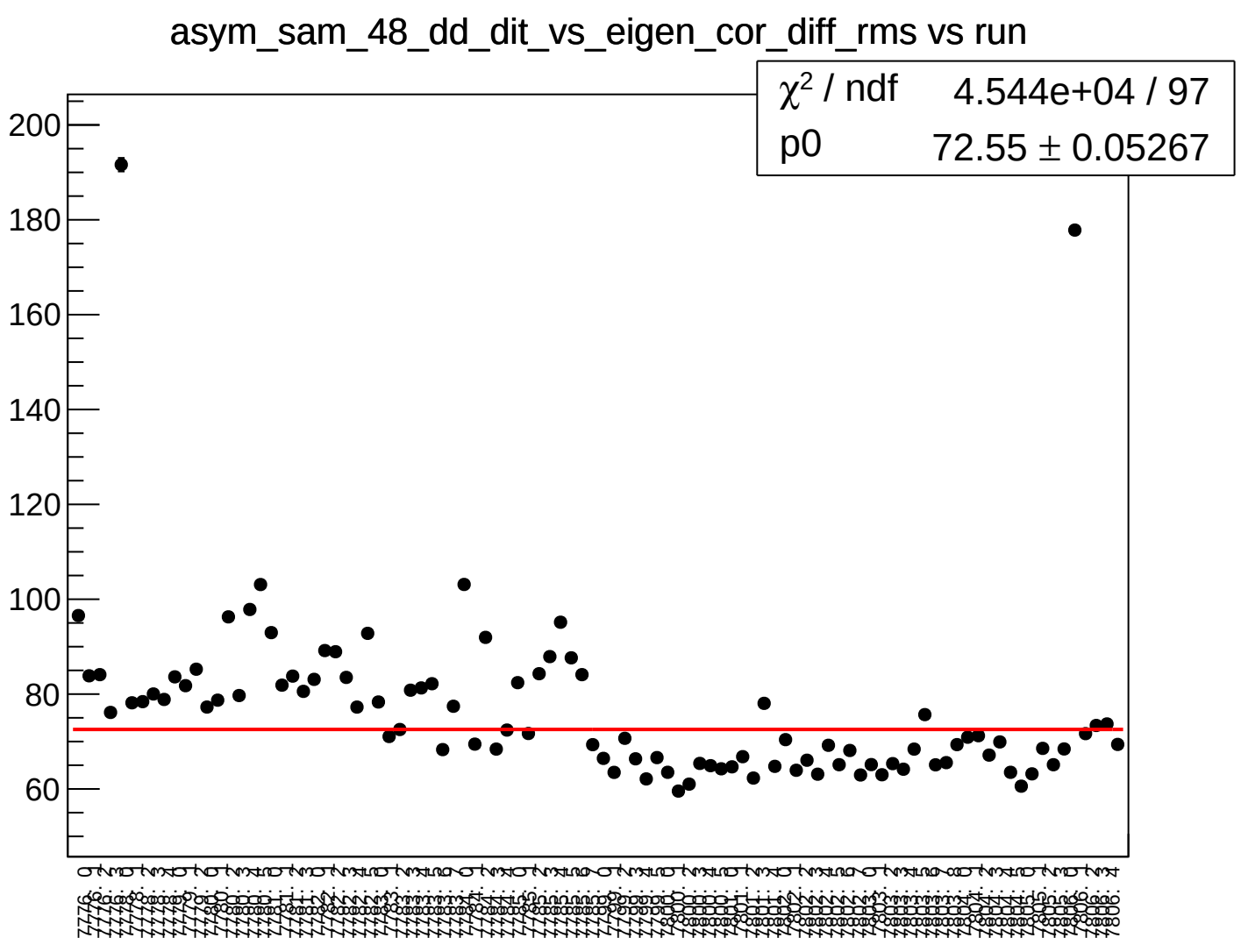

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 97
p0 1.834e−10 ± 2.054e−13
0.1
0.08
0.06
0.04
0.02
0

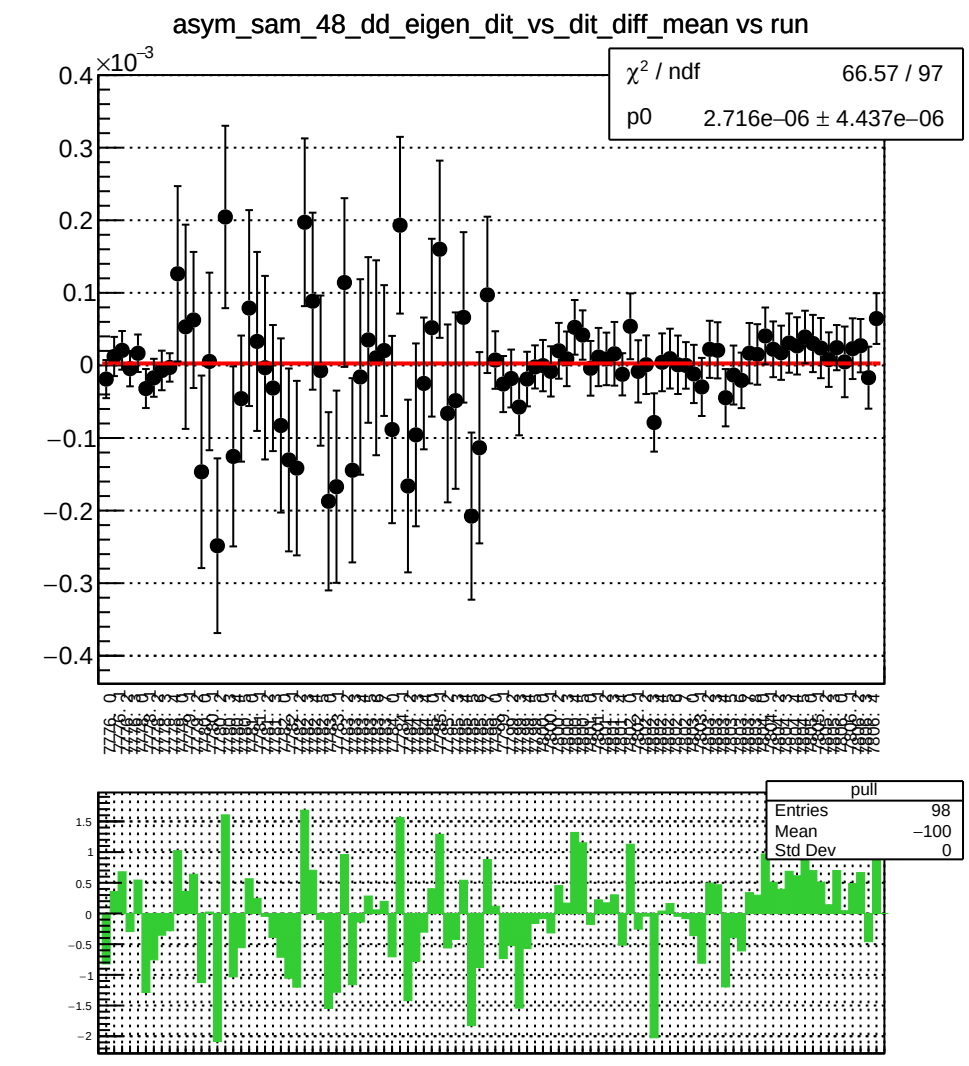

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.76 / 97
p0 −0.04406 ± 0.07449
pull
Entries 98
Mean 41.45
Std Dev 58.38
pull1D
Entries 98
Mean 0.03423
Std Dev 0.9723

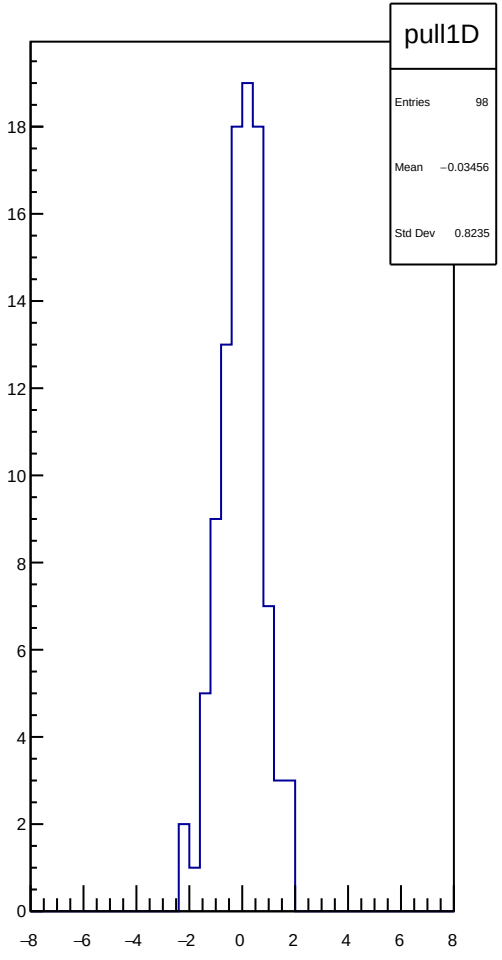

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.544e+04 / 97
p0 72.55 ± 0.05267
200
180
160
140
120
100
80
60

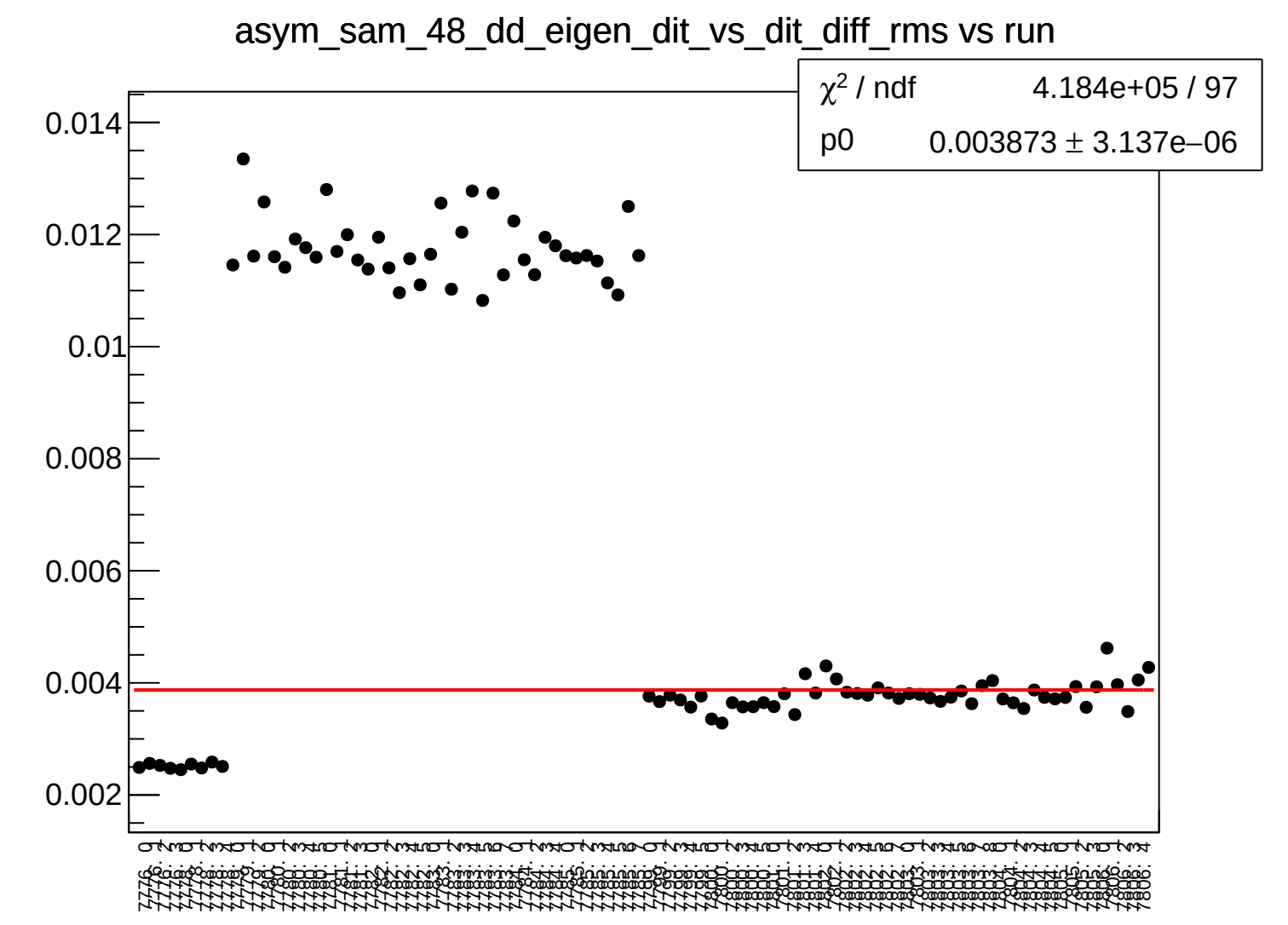

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.76 / 97
p0 −0.04406 ± 0.07449
pull
Entries 98
Mean 41.45
Std Dev 58.38

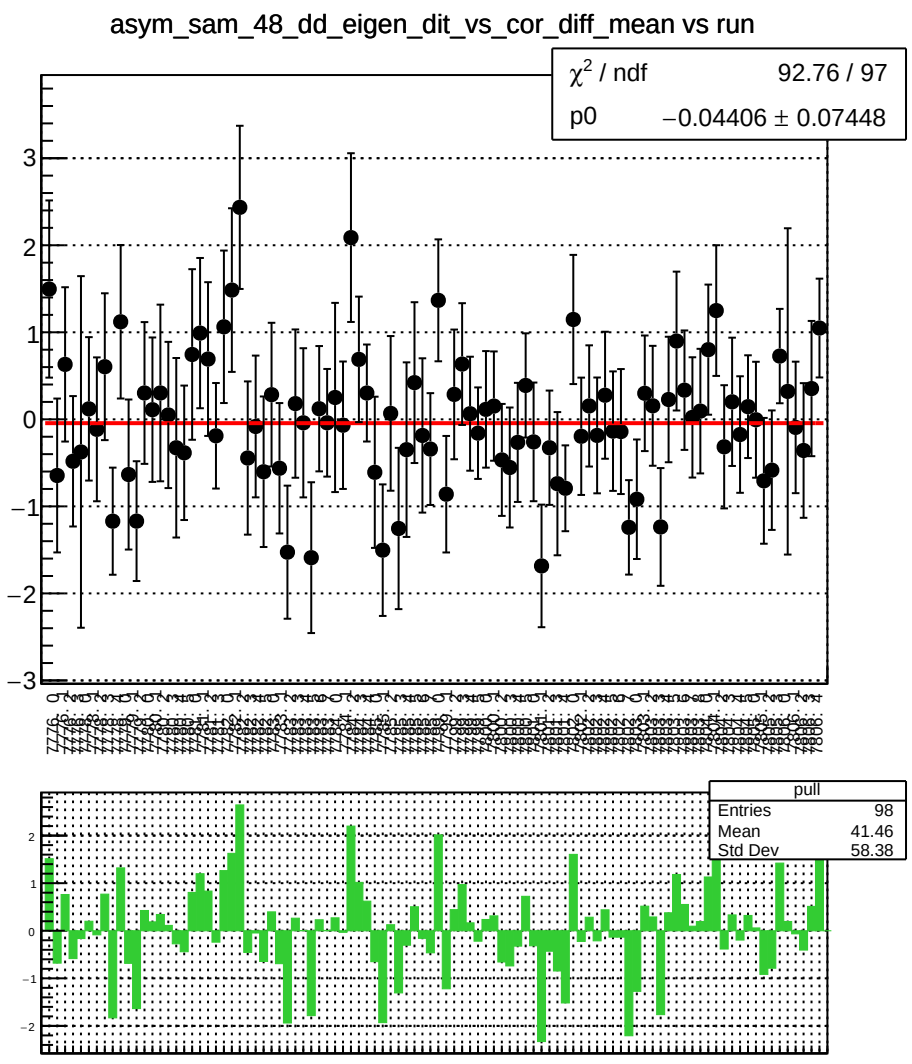

pull1D
Entries 98
Mean 0.03423
Std Dev 0.9723

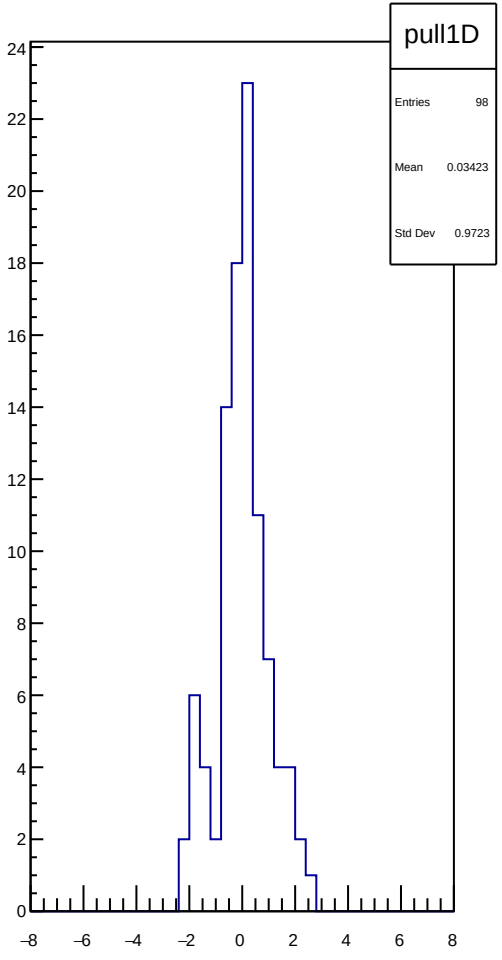

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.544e+04 / 97
p0 72.55 ± 0.05267
200
180
160
140
120
100
80
60

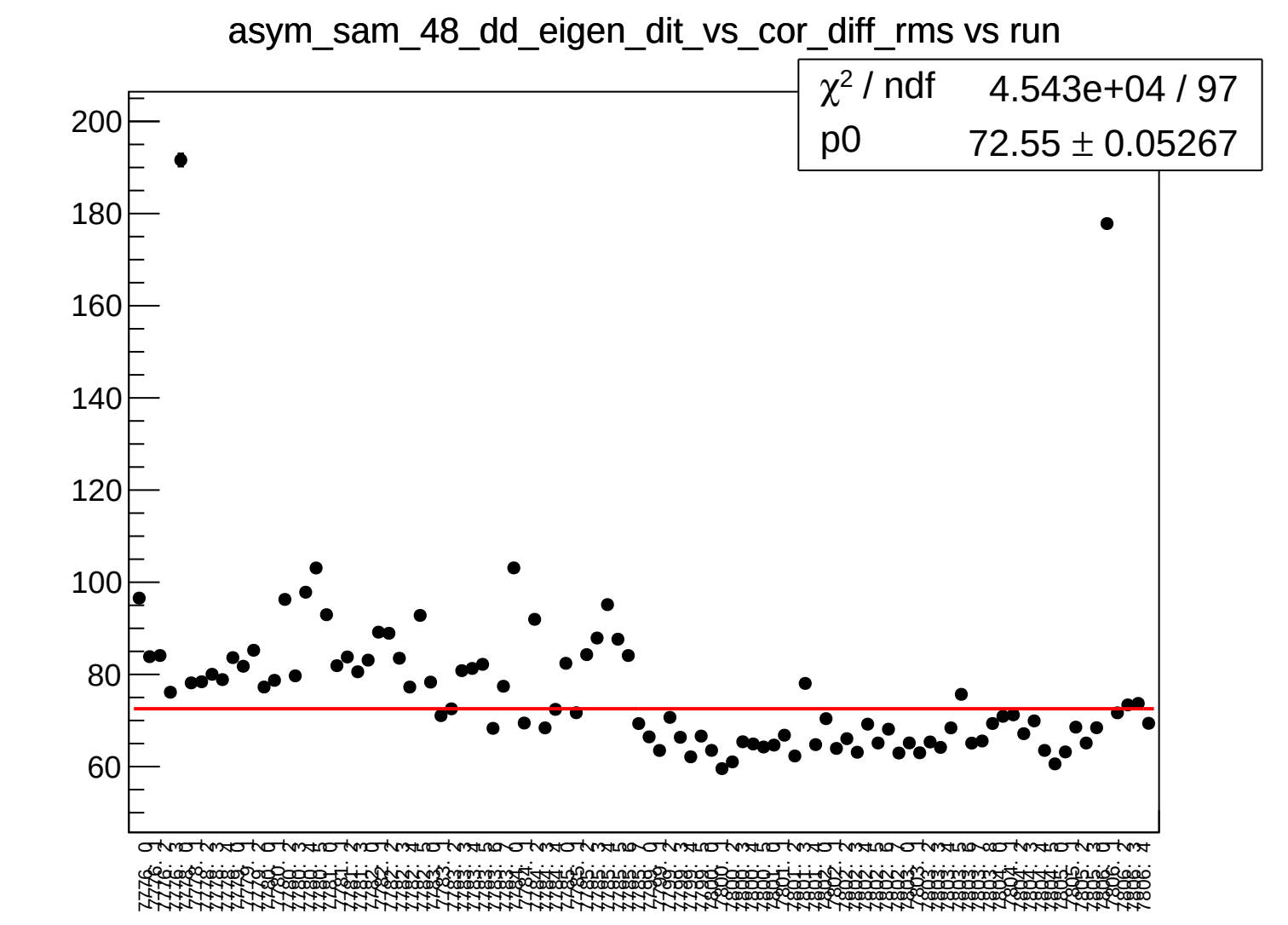

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.57 / 97
p0 2.716e−06 ± 4.437e−06
pull
Entries 98
Mean −100
Std Dev 0


pull1D
Entries 98
Mean −0.03456
Std Dev 0.8235

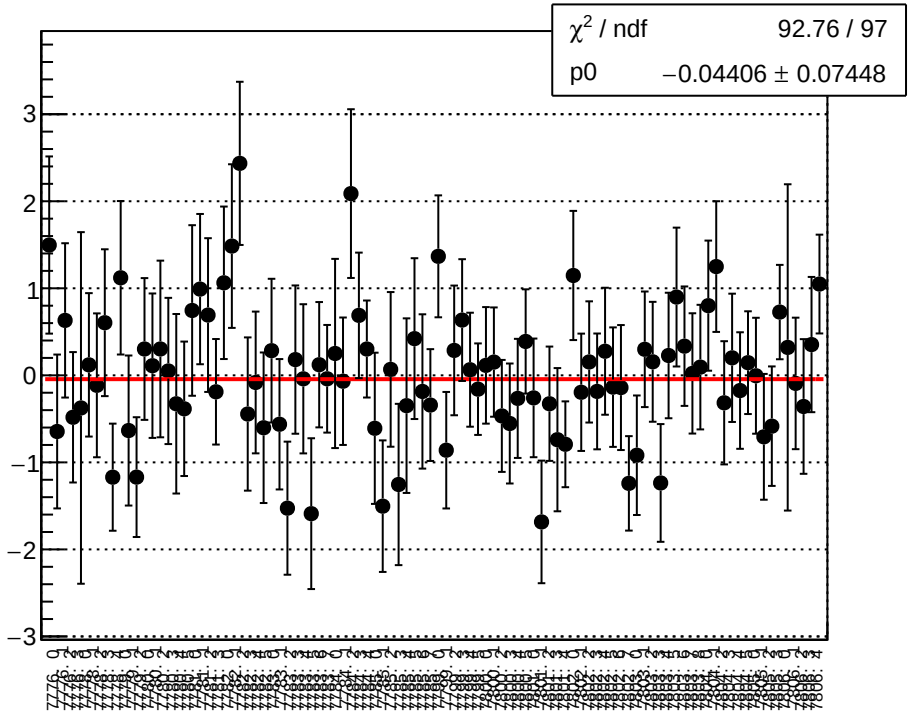

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.184e+05 / 97
p0 0.003873 ± 3.137e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

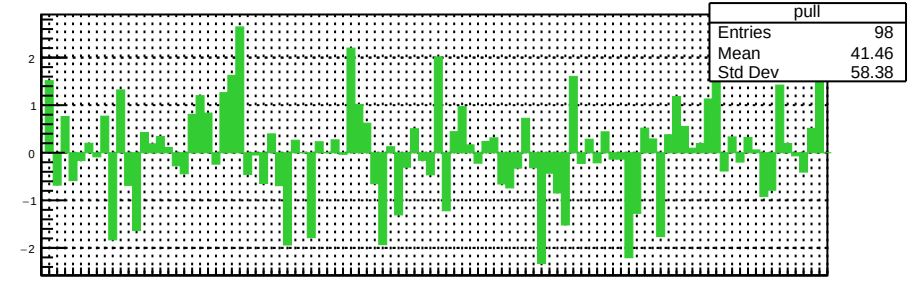

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.76 / 97
p0 −0.04406 ± 0.07448
pull
Entries 98
Mean 41.46
Std Dev 58.38

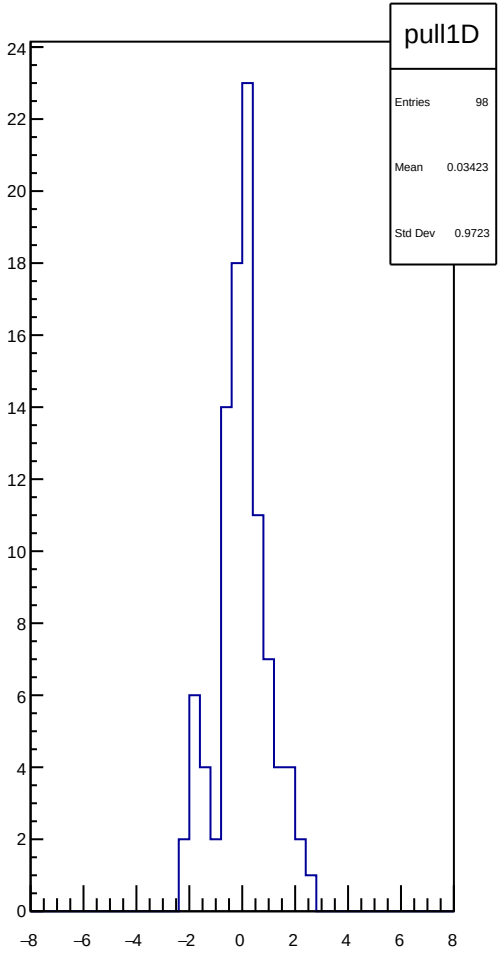

pull1D
Entries 98
Mean 0.03423
Std Dev 0.9723

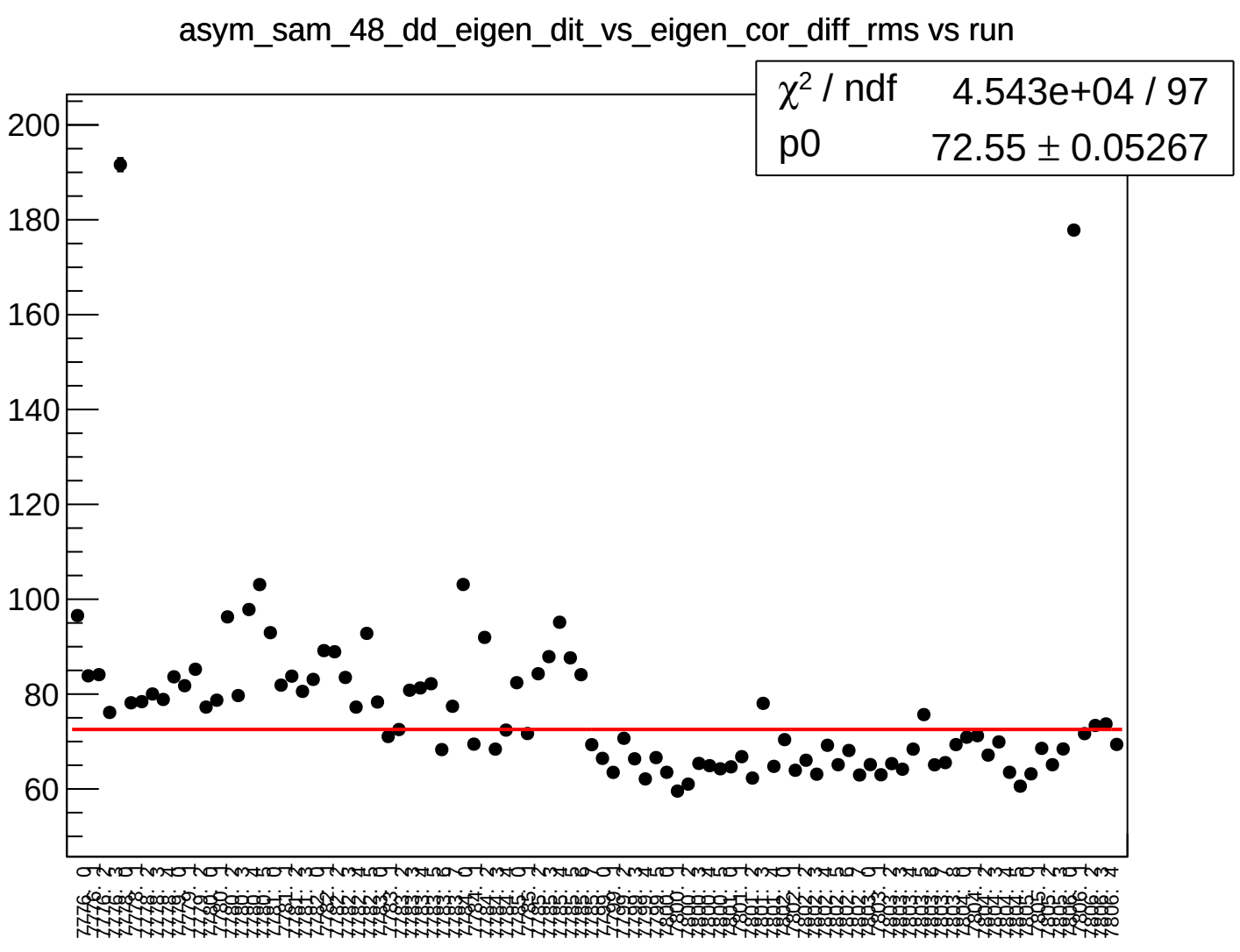

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.543e+04 / 97
p0 72.55 ± 0.05267
200
180
160
140
120
100
80
60

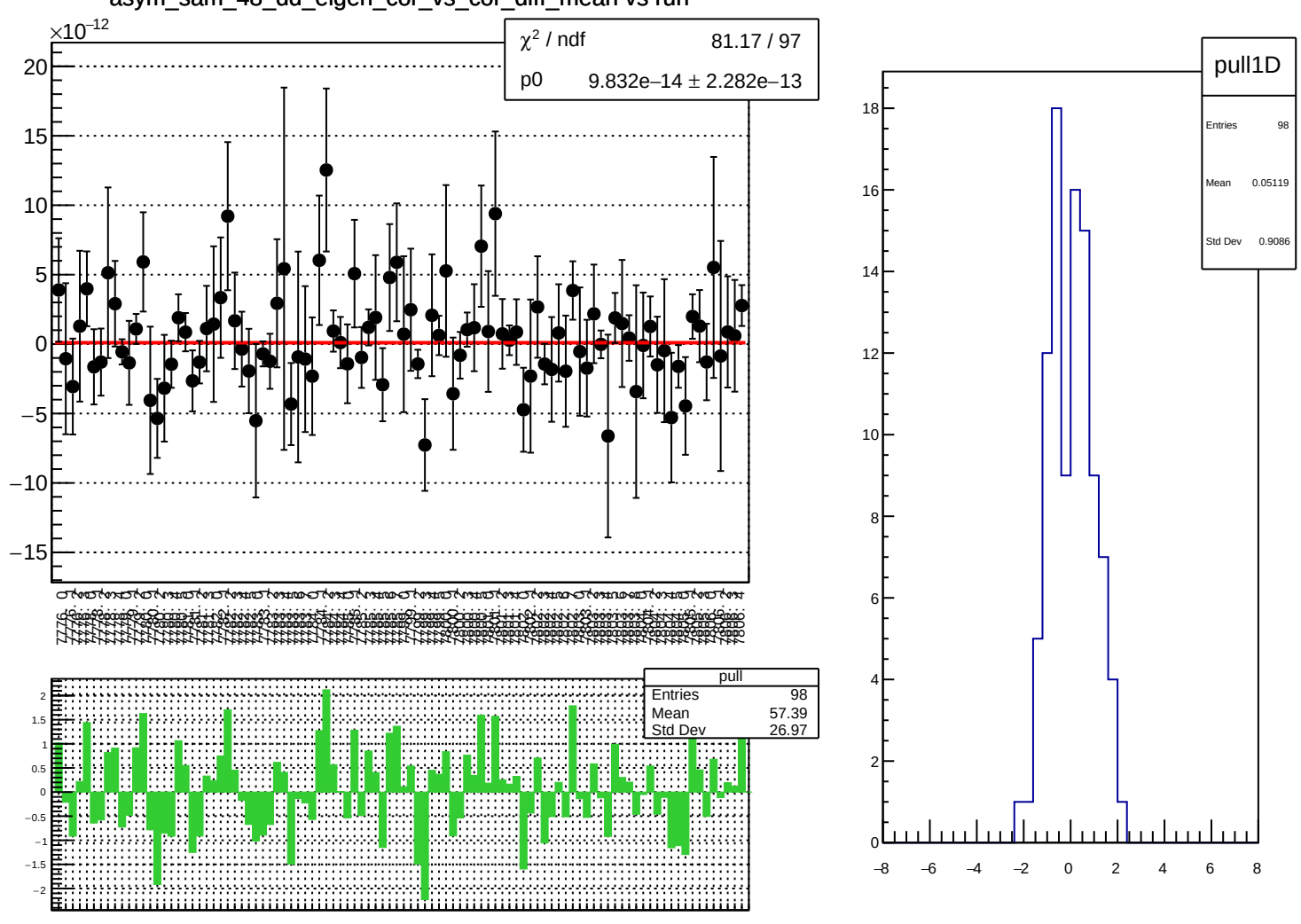
asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

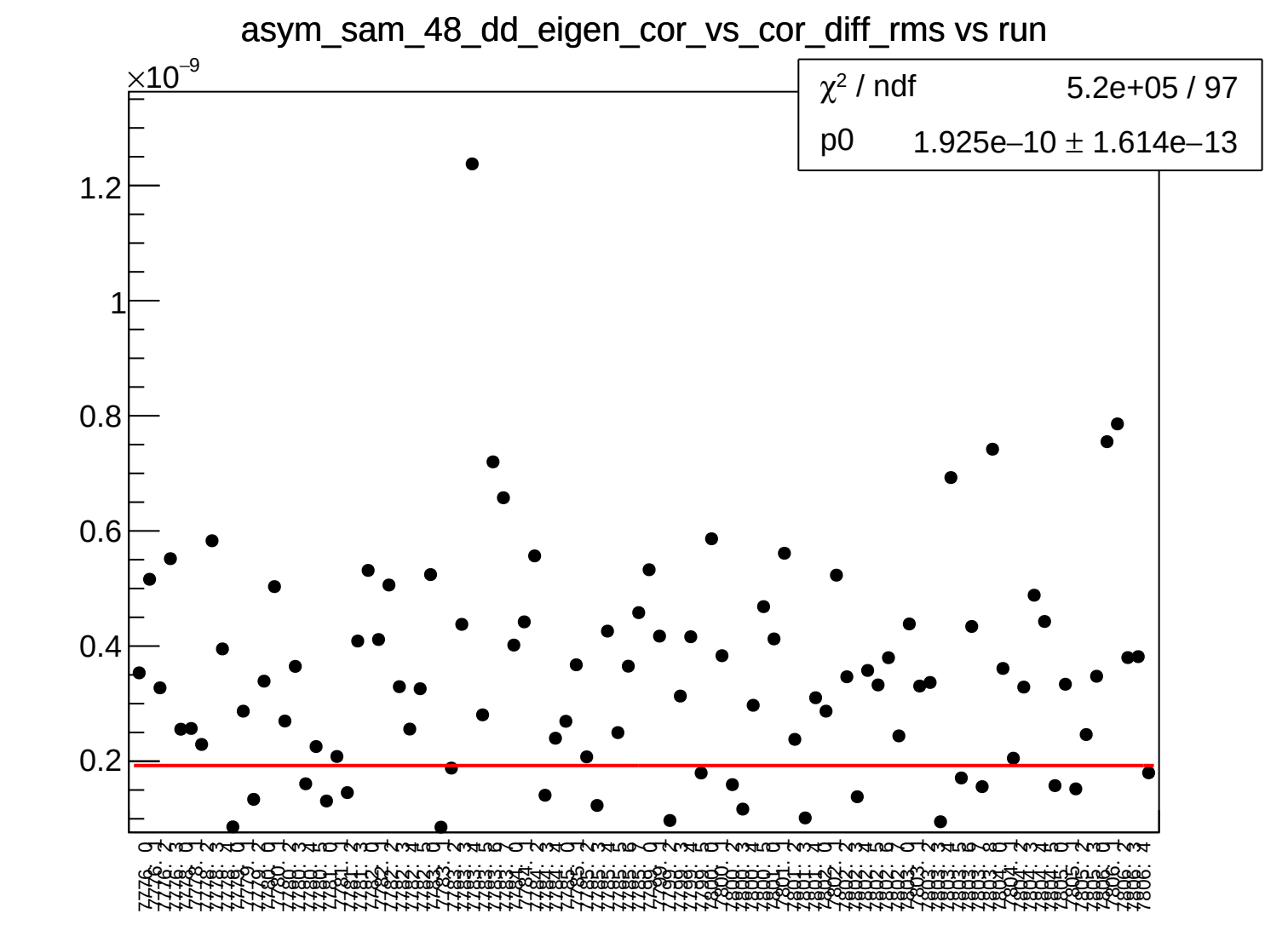


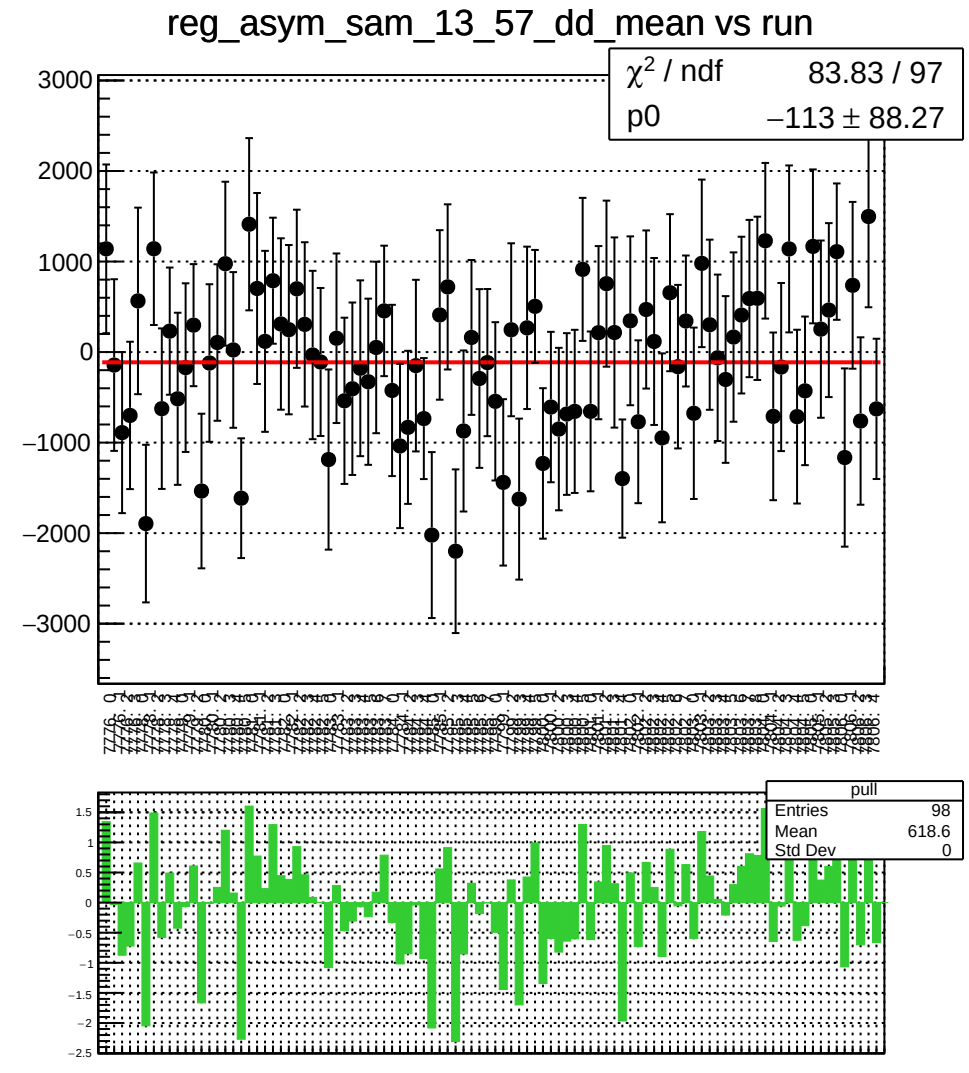


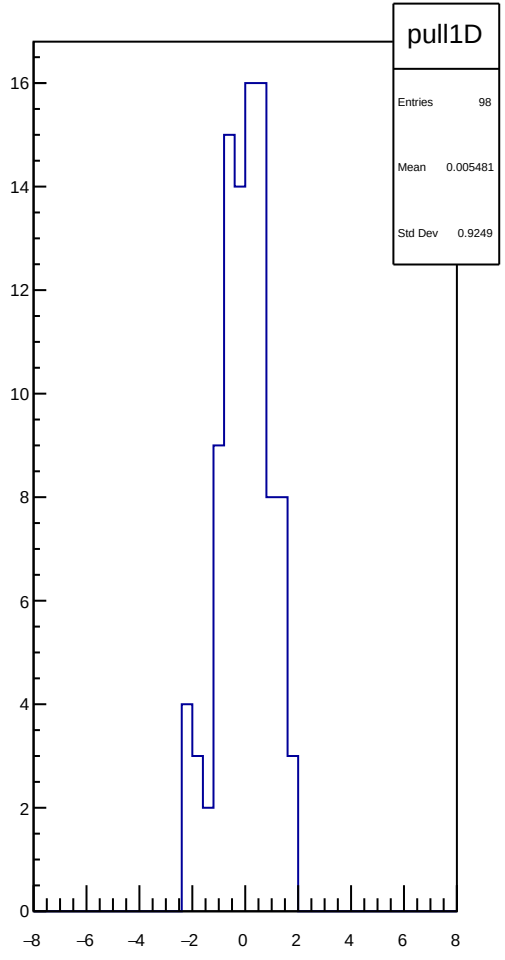


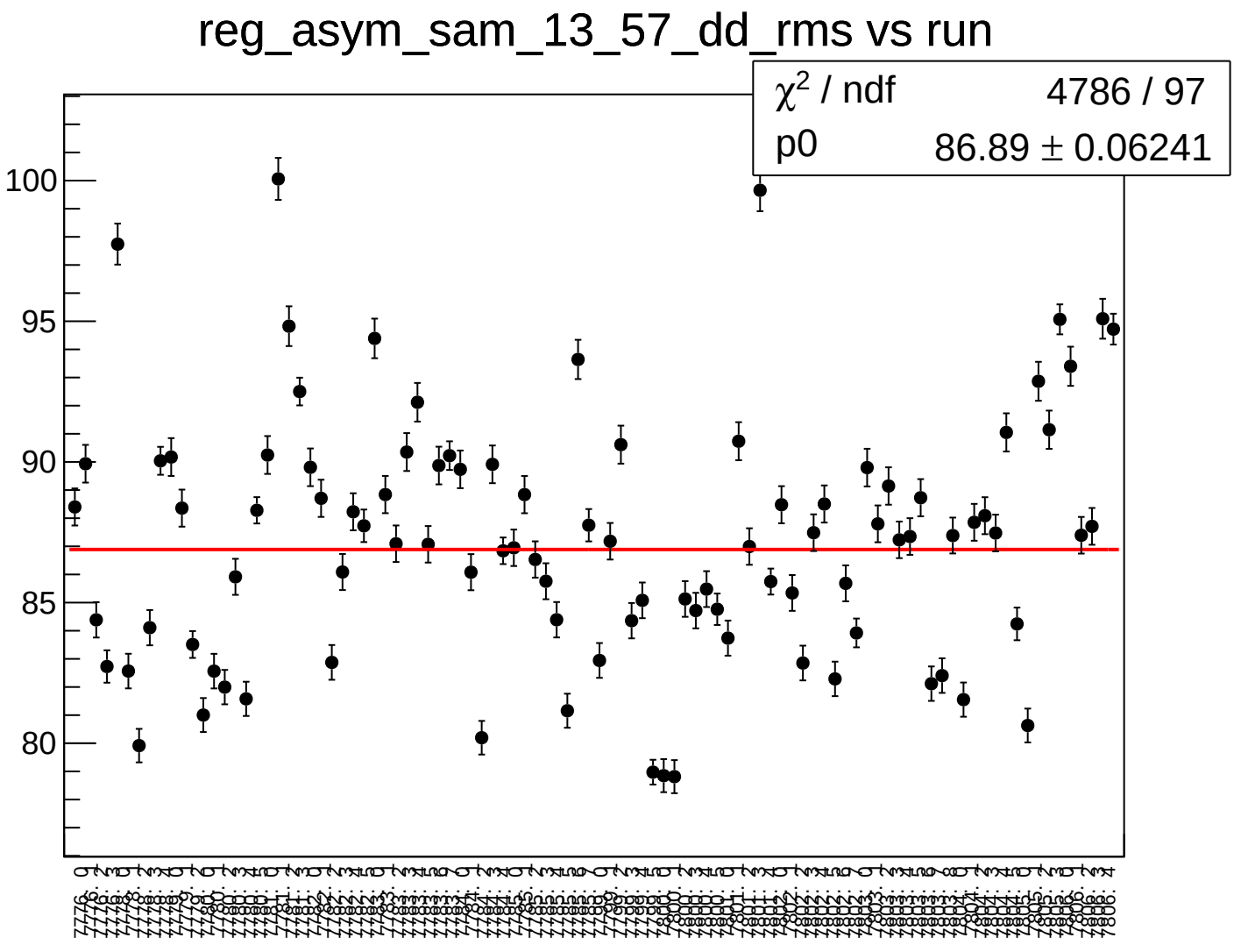

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.543e+04 / 97
p0 72.55 ± 0.05267
200
180
160
140
120
100
80
60

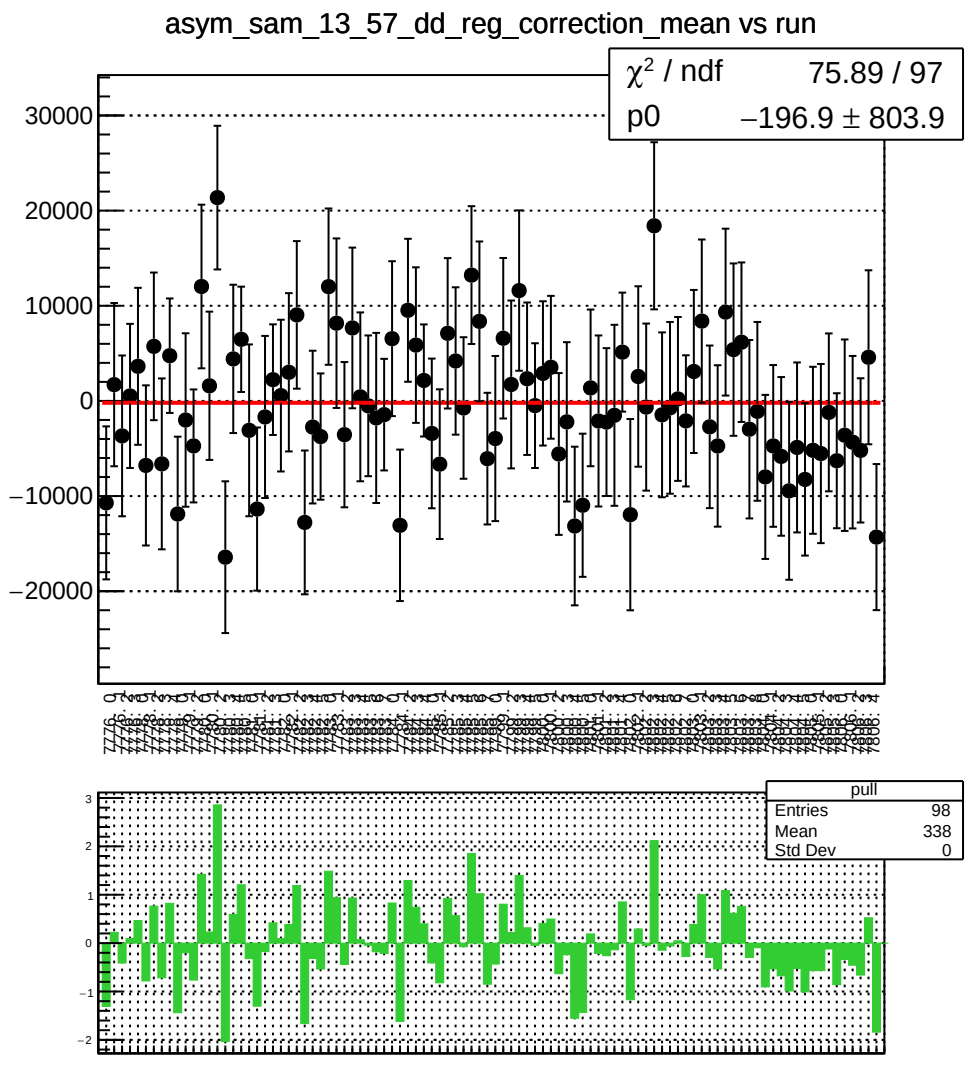

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 81.17 / 97
p0 9.832e−14 ± 2.282e−13
pull
Entries 98
Mean 57.39
Std Dev 26.97
pull1D
Entries 98
Mean 0.05119
Std Dev 0.9086

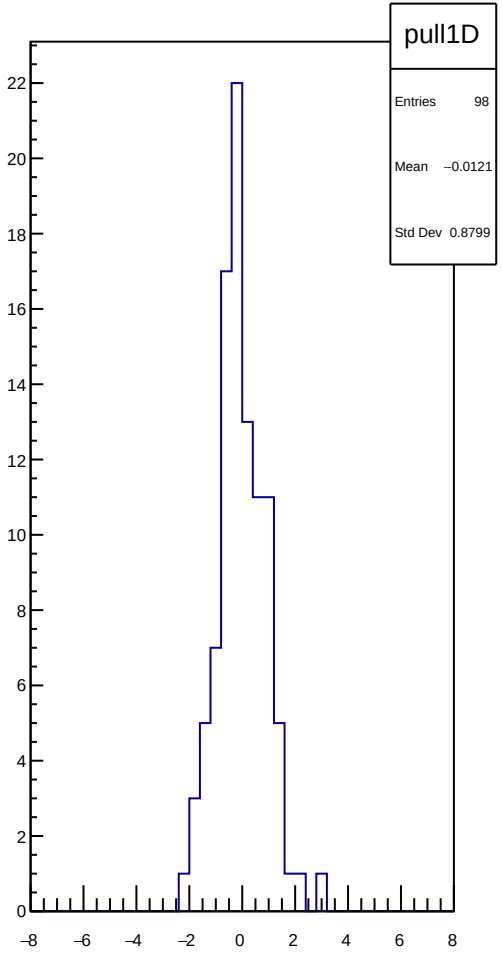

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.2e+05 / 97
p0 1.925e−10 ± 1.614e−13
1.2
1
0.8
0.6
0.4
0.2

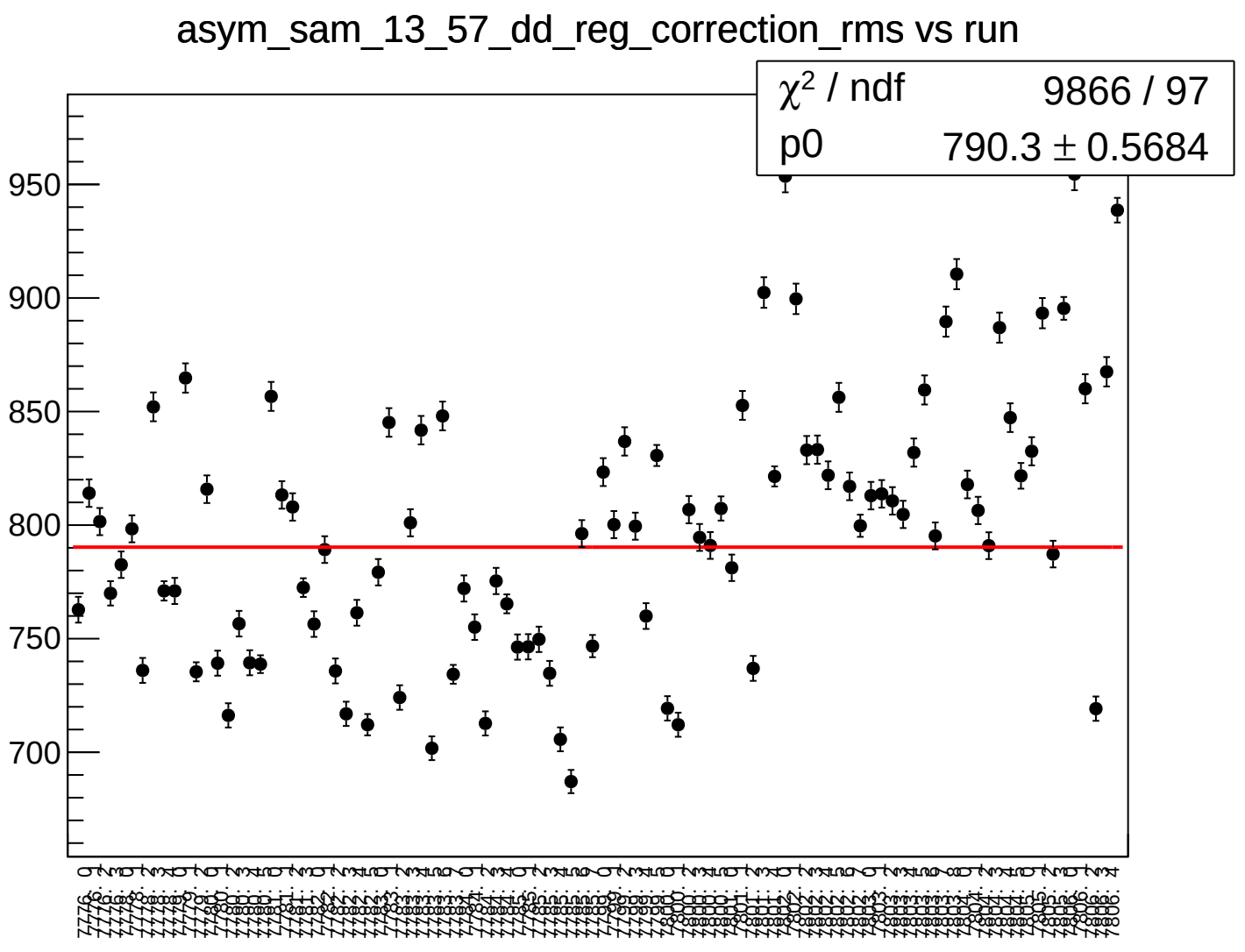

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 83.83 / 97
p0 −113 ± 88.27
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean 618.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

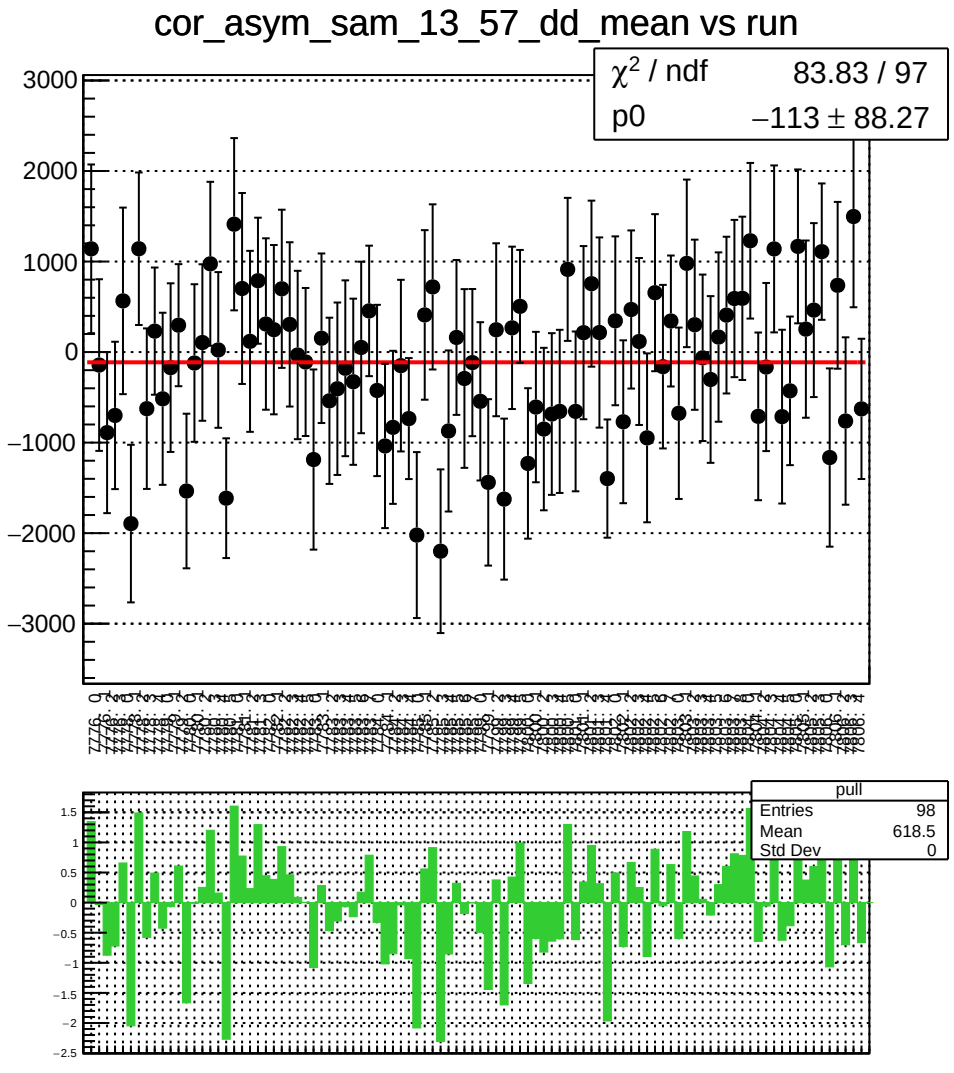

pull1D
Entries 98
Mean 0.005481
Std Dev 0.9249
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

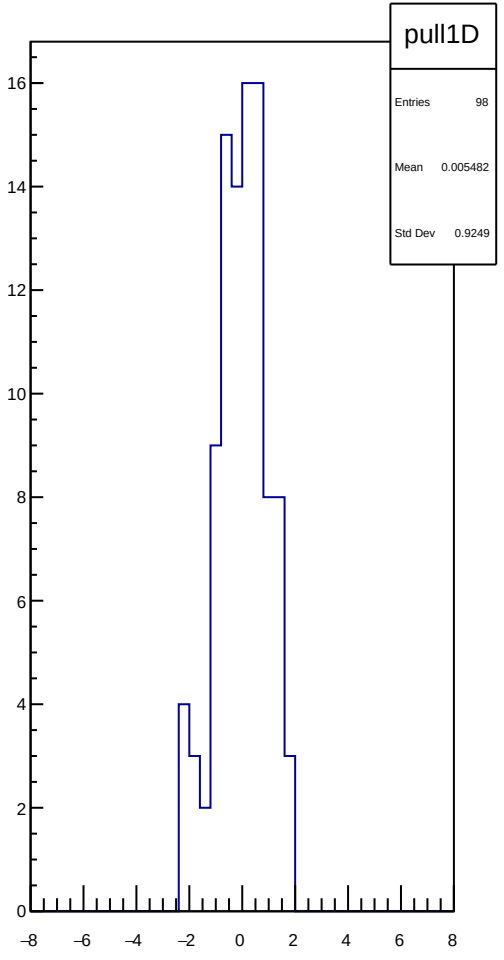

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 4786 / 97
p0 86.89 ± 0.06241
100
95
90
85
80

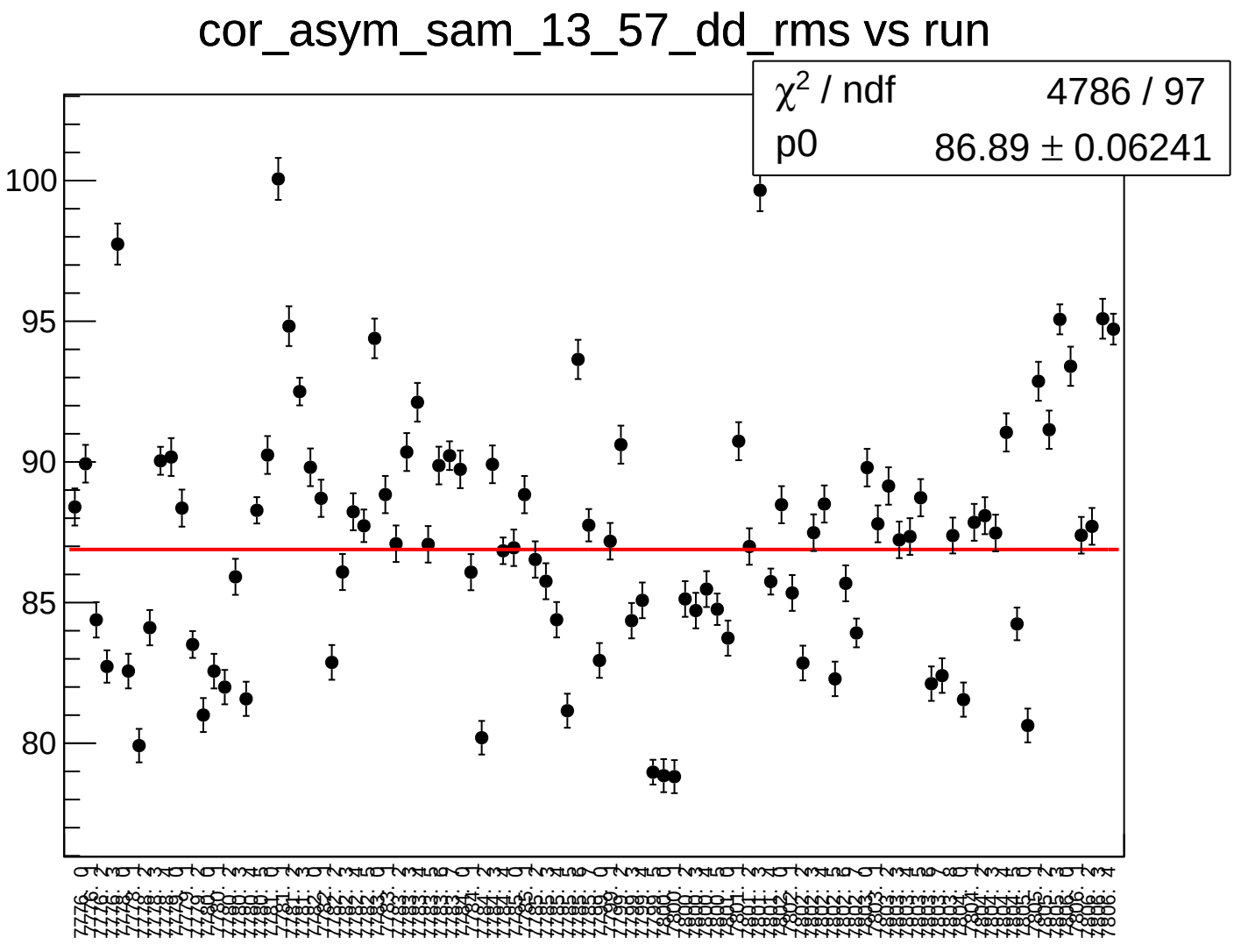

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 75.89 / 97
p0 −196.9 ± 803.9
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 338
Std Dev 0
3
2
1
0
−1
−2

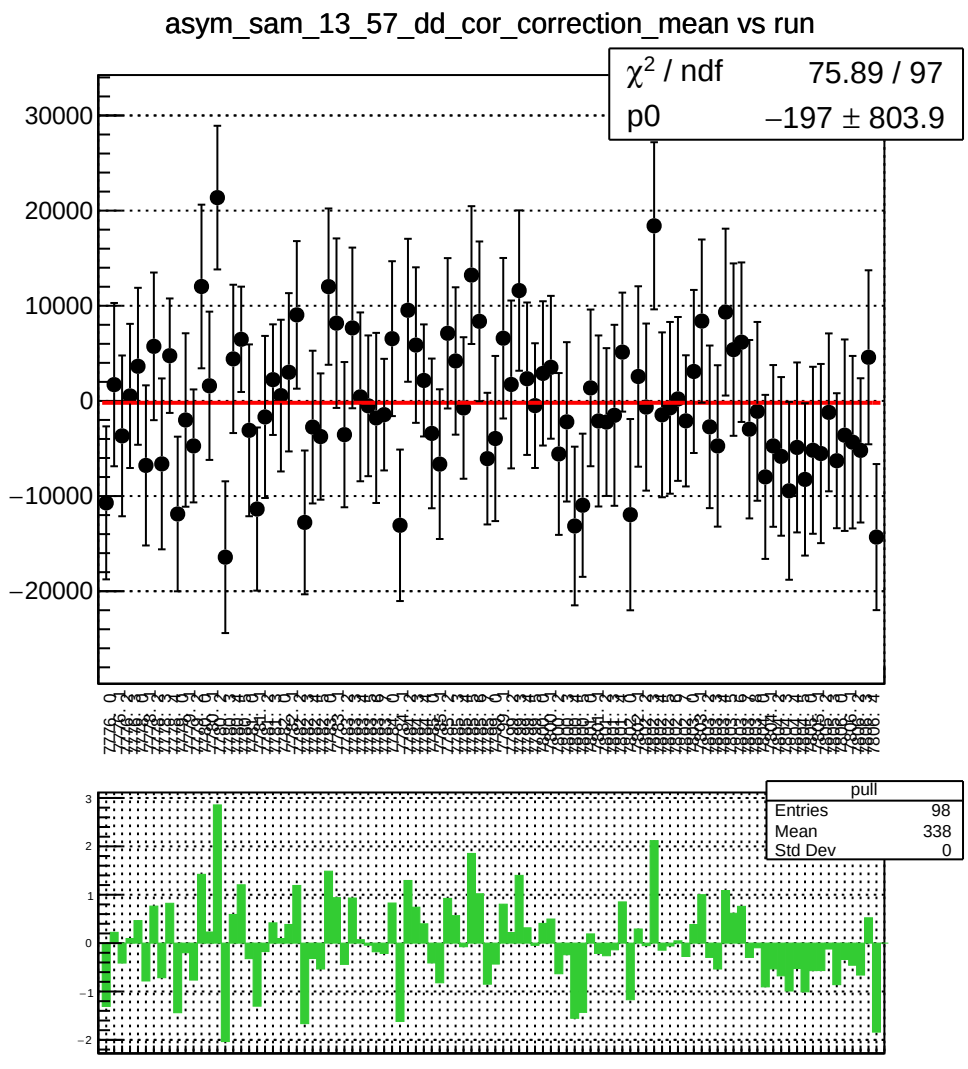

pull1D
Entries 98
Mean −0.0121
Std Dev 0.8799
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

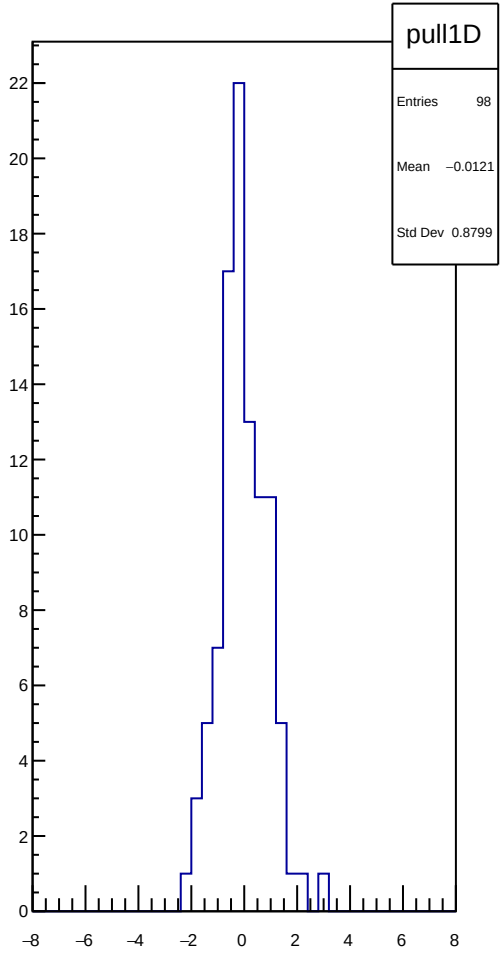

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 9866 / 97
p0 790.3 ± 0.5684
950
900
850
800
750
700

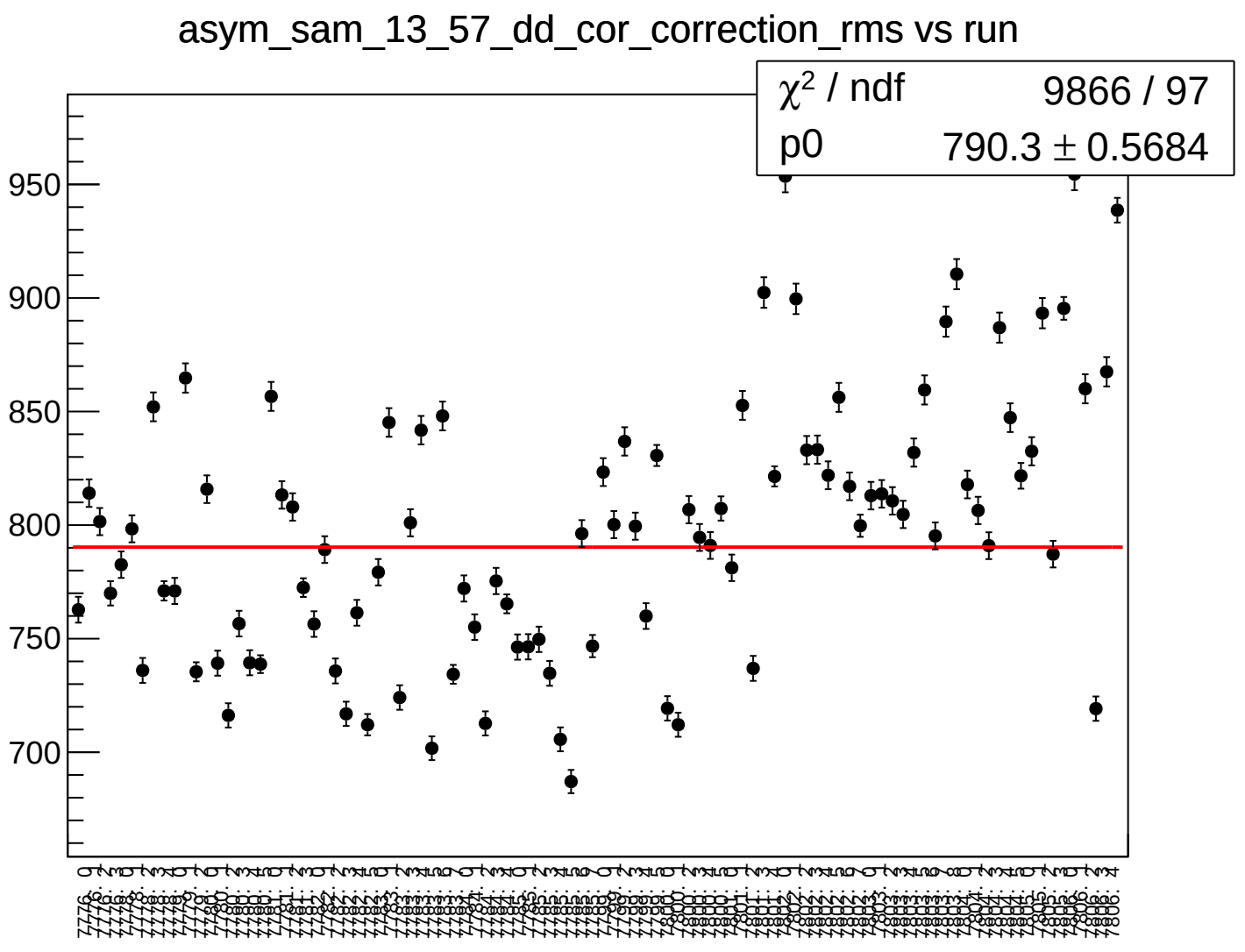

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 83.83 / 97
p0 −113 ± 88.27
pull
Entries 98
Mean 618.5
Std Dev 0

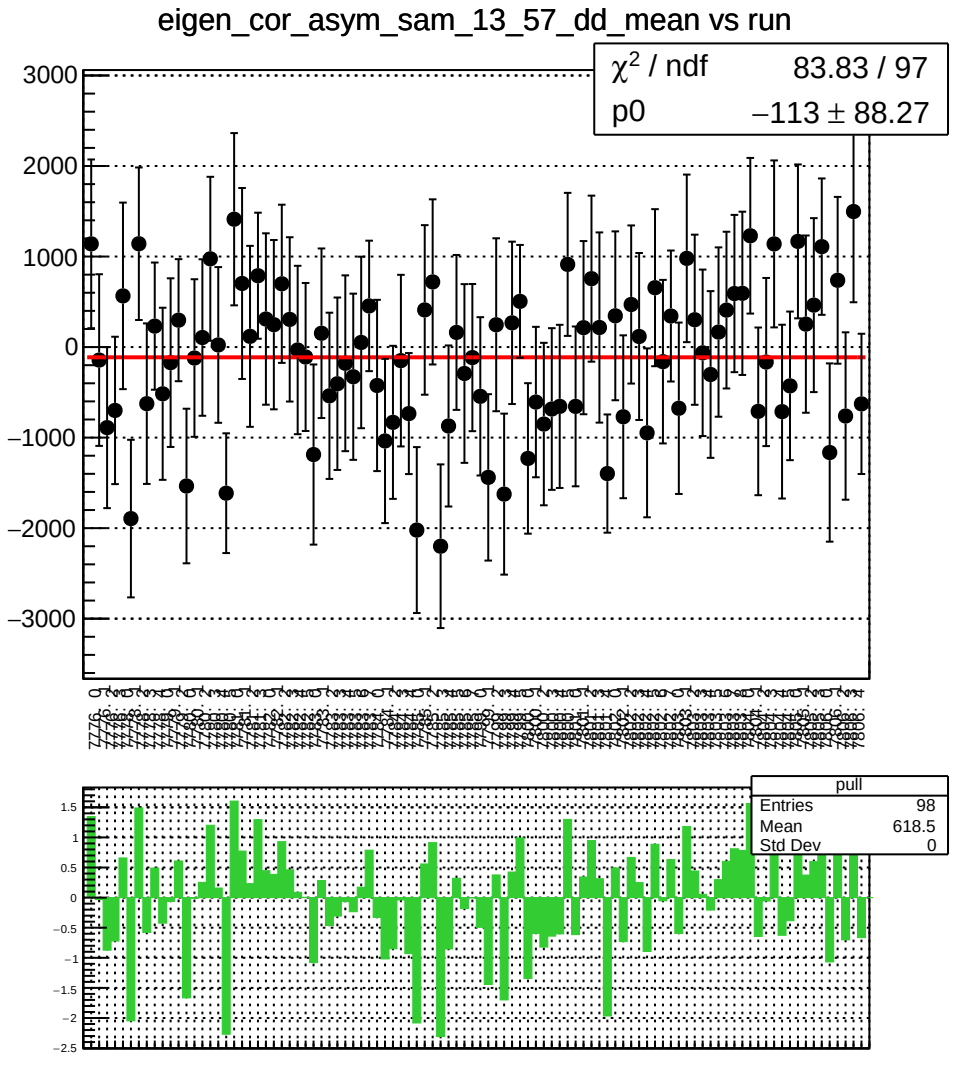

pull1D
Entries 98
Mean 0.005482
Std Dev 0.9249

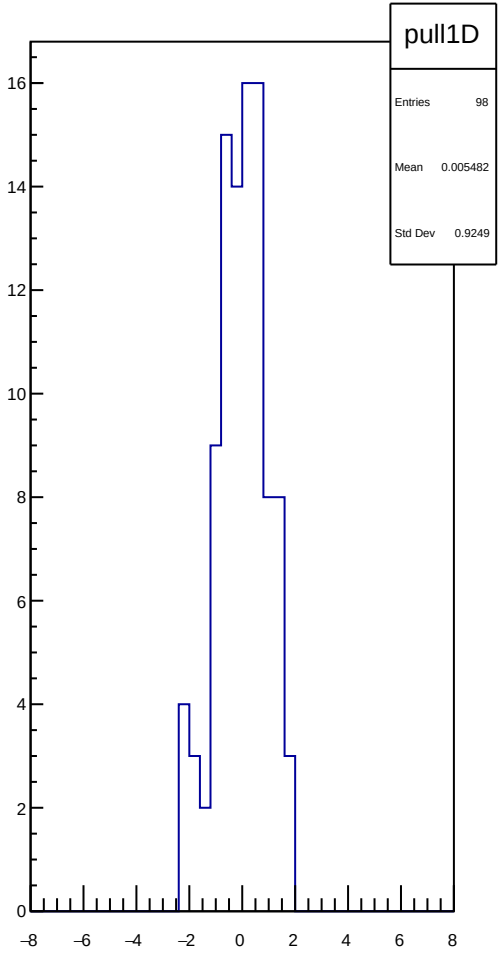

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 4786 / 97
p0 86.89 ± 0.06241
100
95
90
85
80

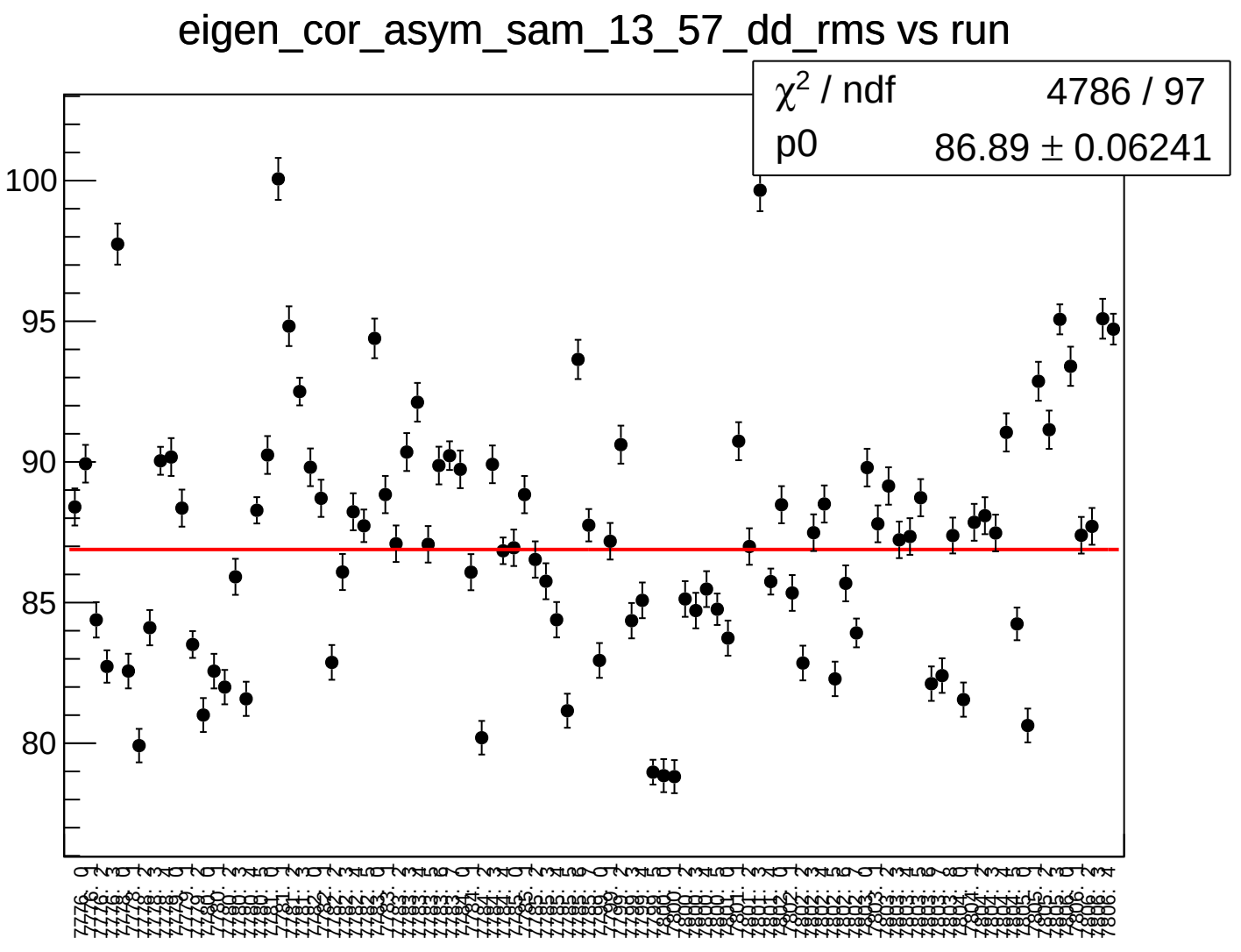

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 75.89 / 97
p0 −197 ± 803.9
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 338
Std Dev 0
3
2
1
0
−1
−2

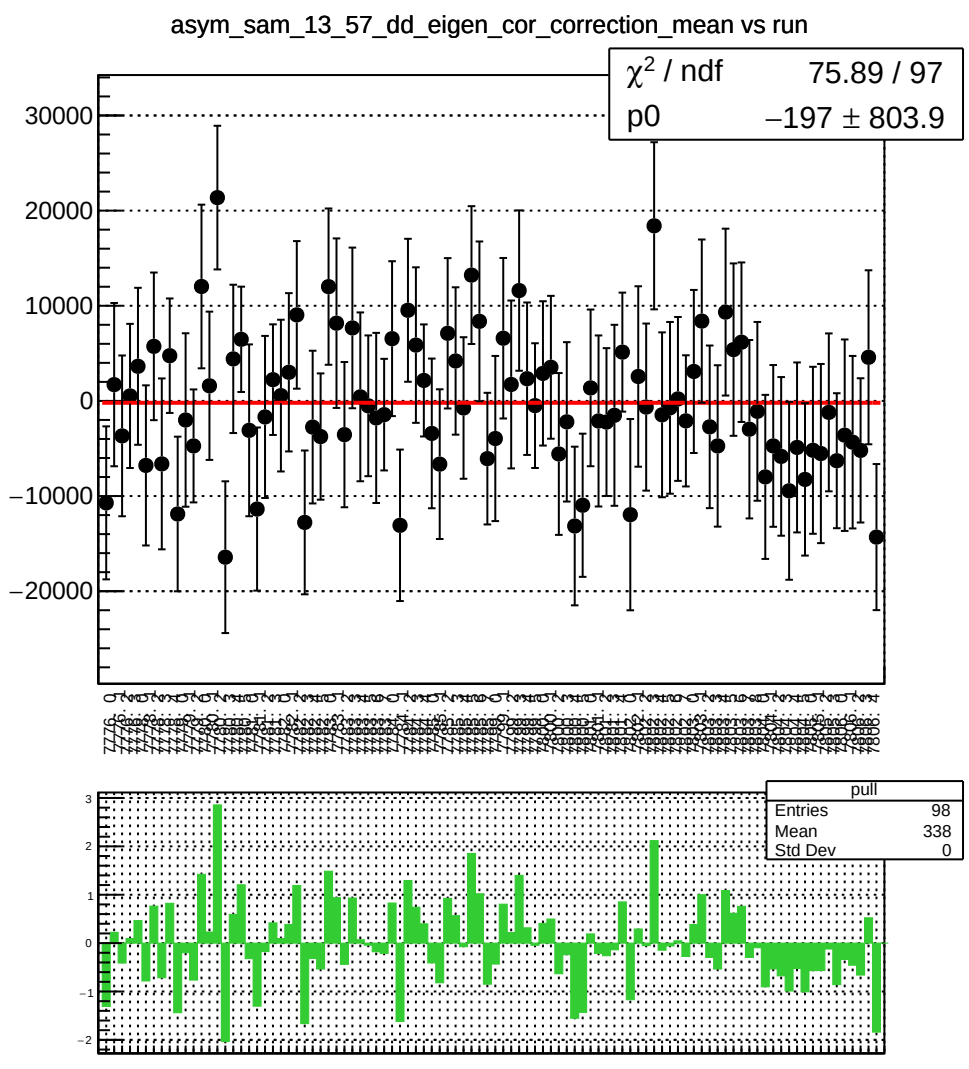

pull1D
Entries 98
Mean −0.0121
Std Dev 0.8799
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

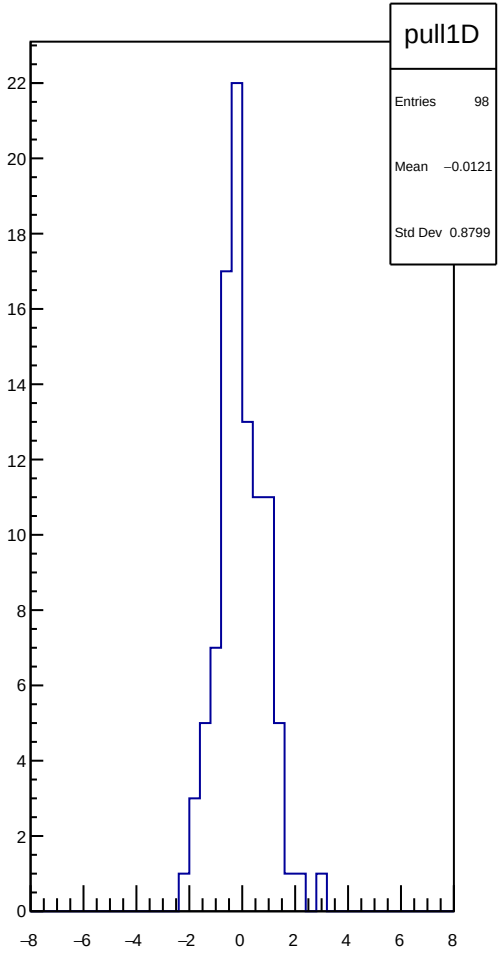

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 9866 / 97
p0 790.3 ± 0.5684
950
900
850
800
750
700

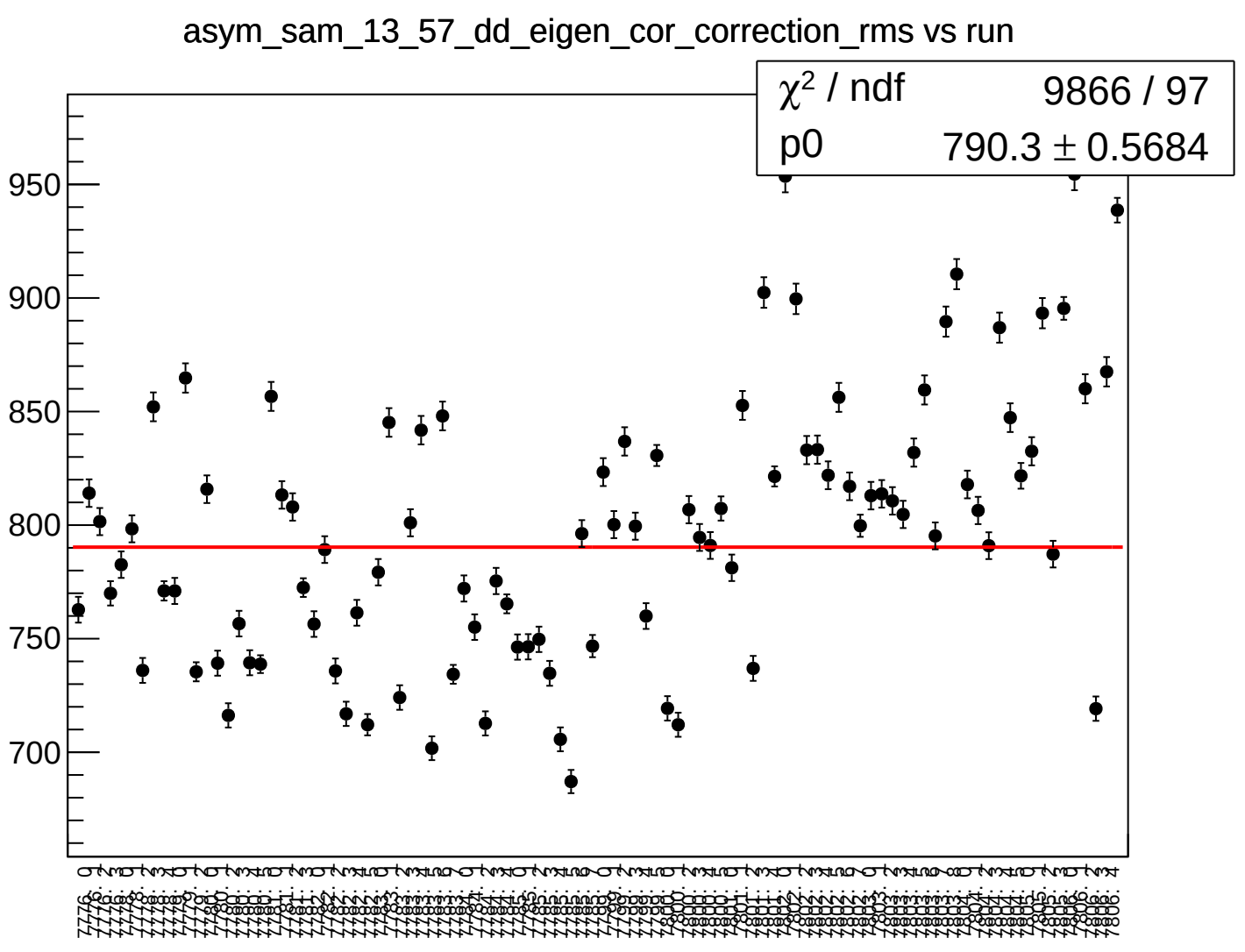

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 83.83 / 97
p0 −113 ± 88.27
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean 618.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

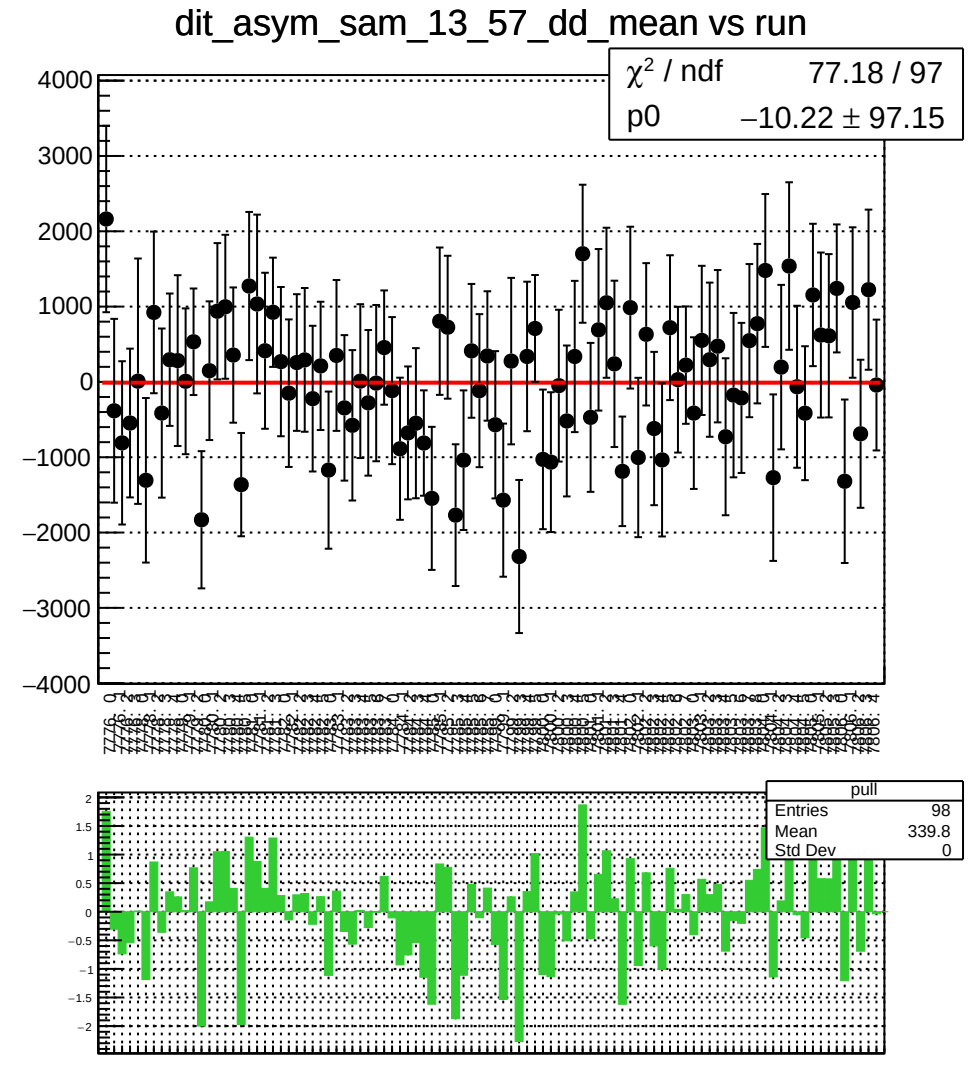

pull1D
Entries 98
Mean 0.005482
Std Dev 0.9249
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

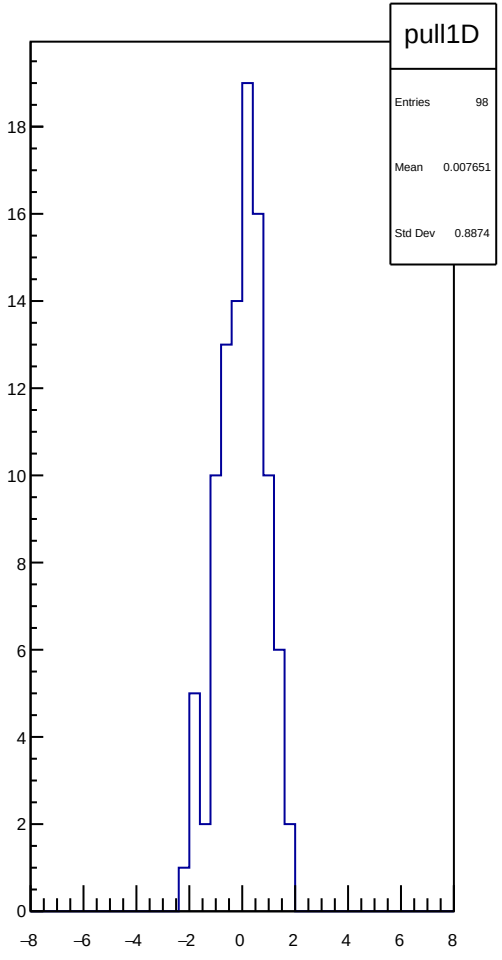

eigen_cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 4786 / 97
p0 86.89 ± 0.06241
100
95
90
85
80

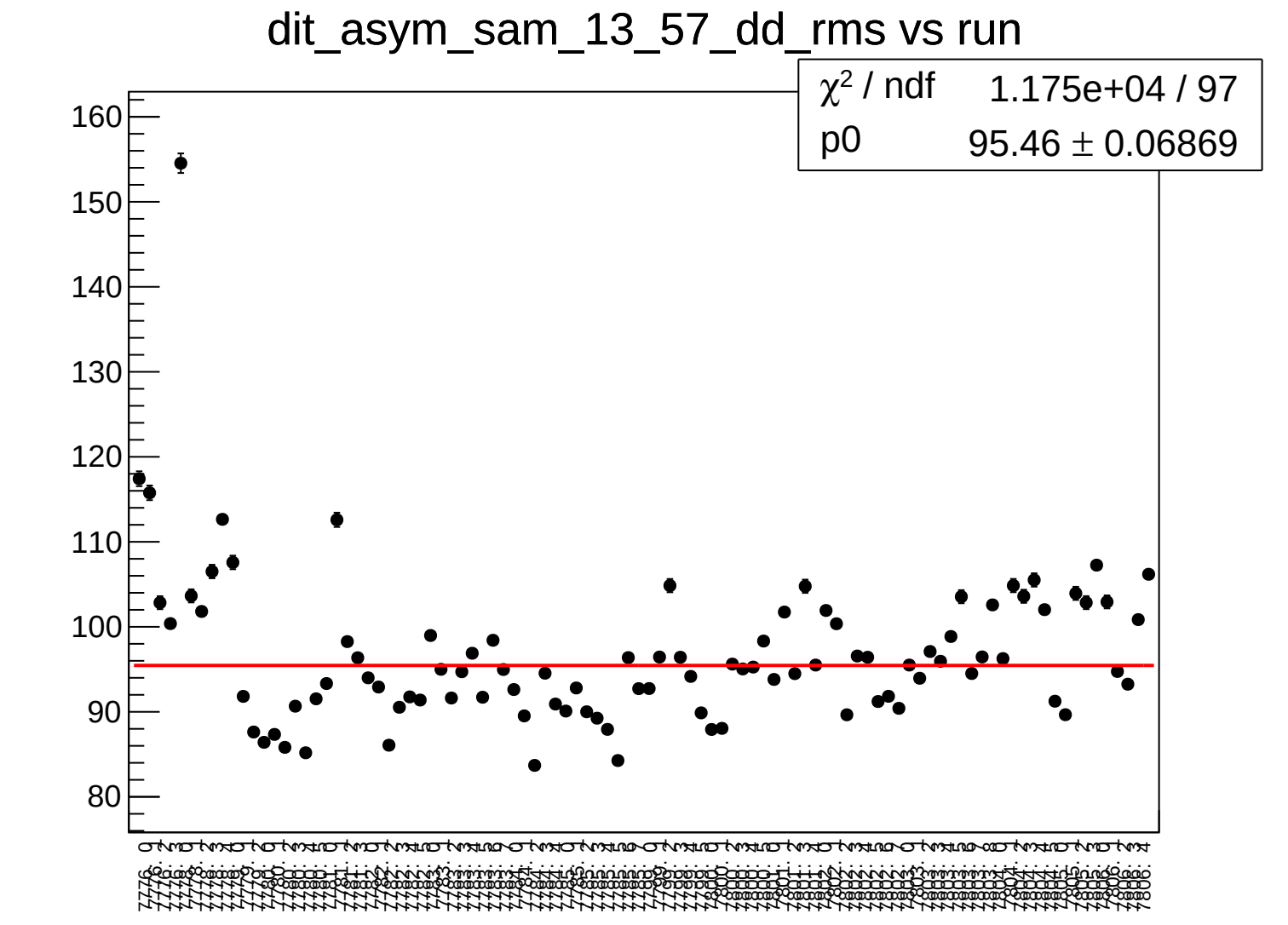

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.89 / 97
p0 −197 ± 803.9
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 338
Std Dev 0
3
2
1
0
−1
−2

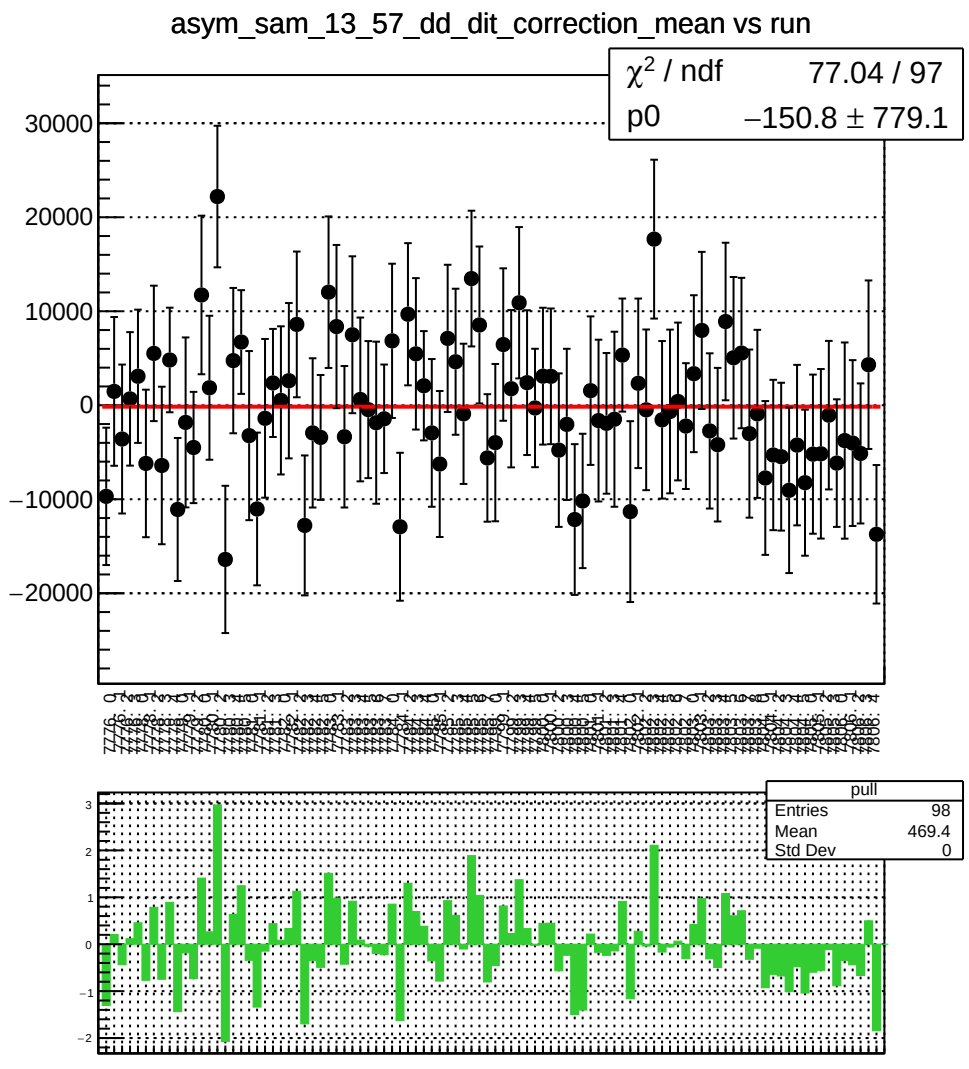

pull1D
Entries 98
Mean −0.0121
Std Dev 0.8799
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

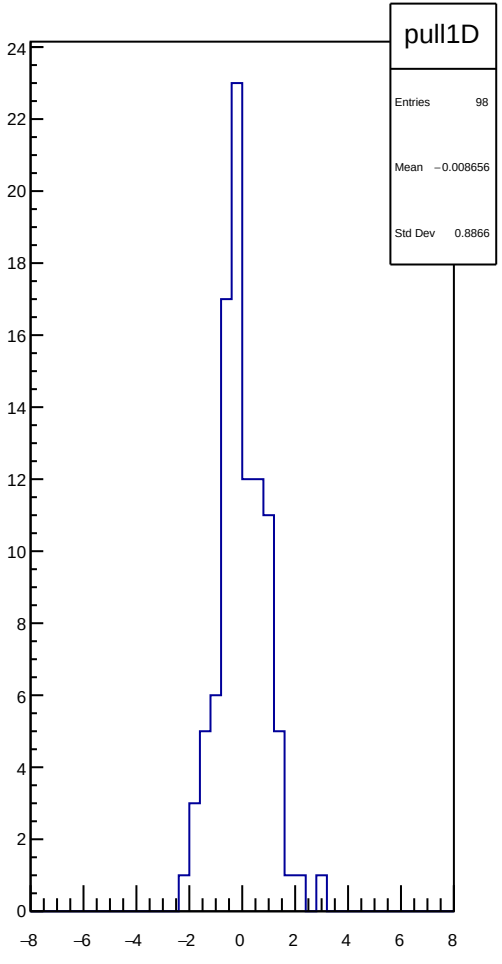

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 9866 / 97
p0 790.3 ± 0.5684
950
900
850
800
750
700

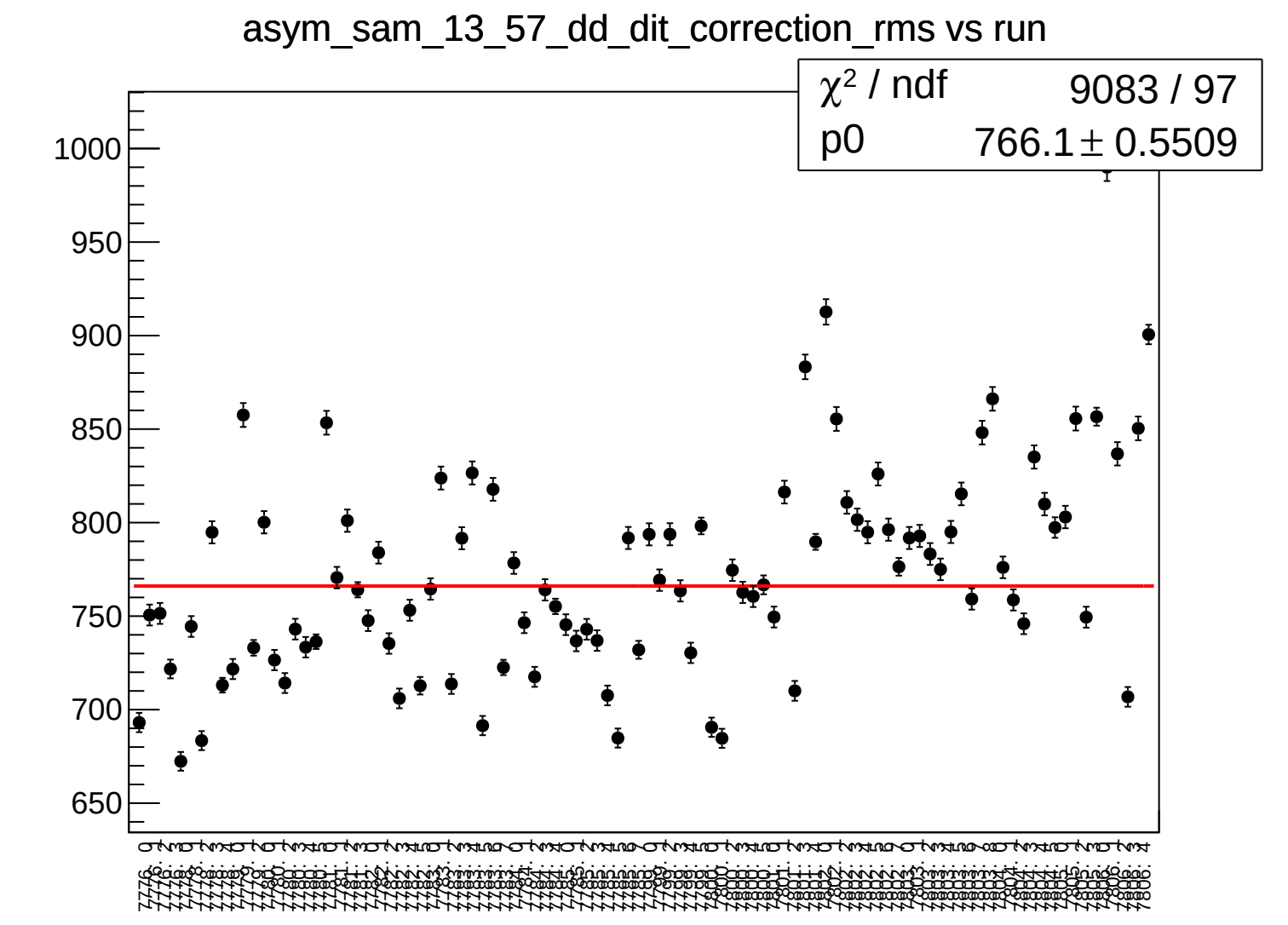

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 77.18 / 97
p0 −10.22 ± 97.15
pull
Entries 98
Mean 339.8
Std Dev 0

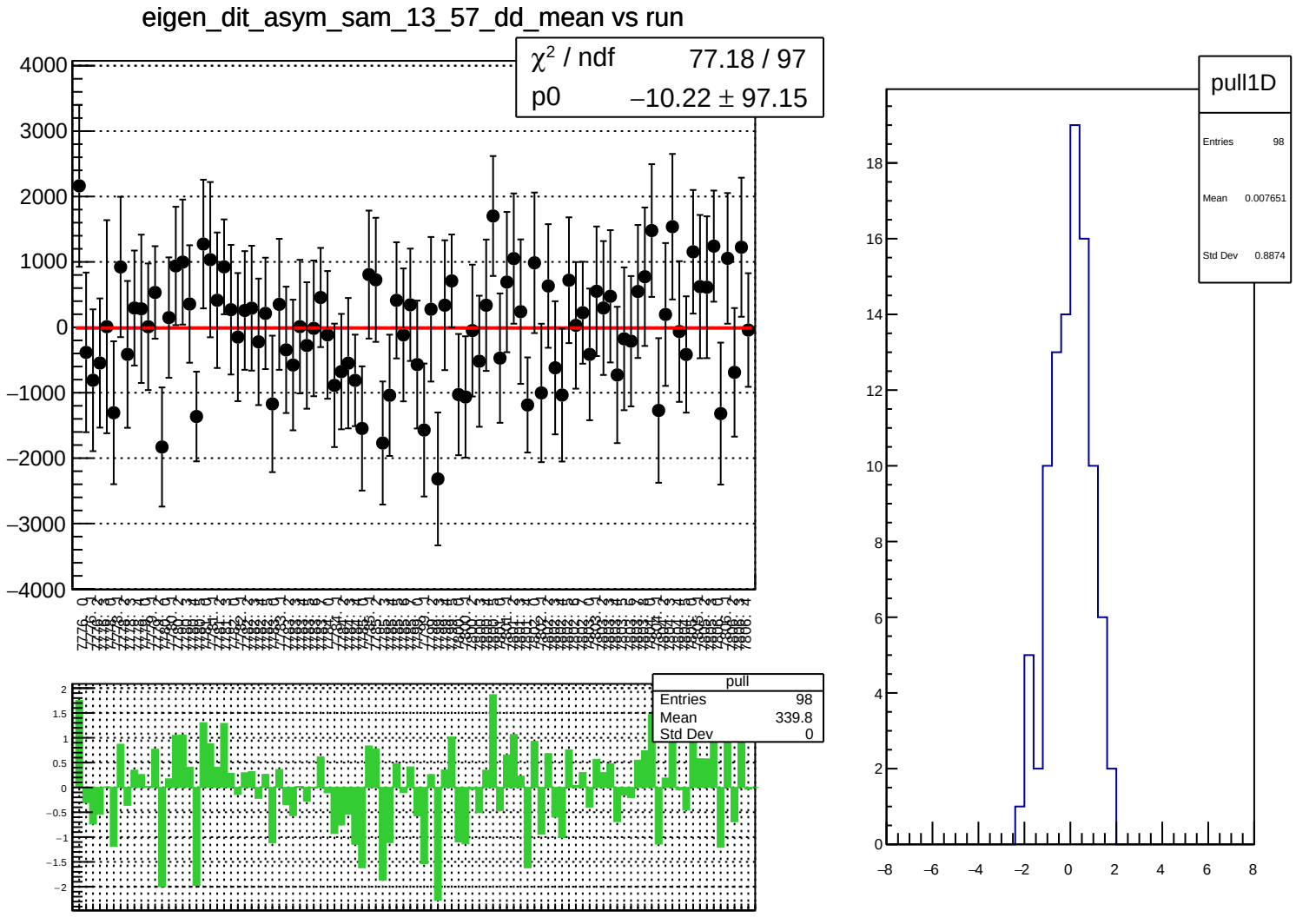

pull1D
Entries 98
Mean 0.007651
Std Dev 0.8874

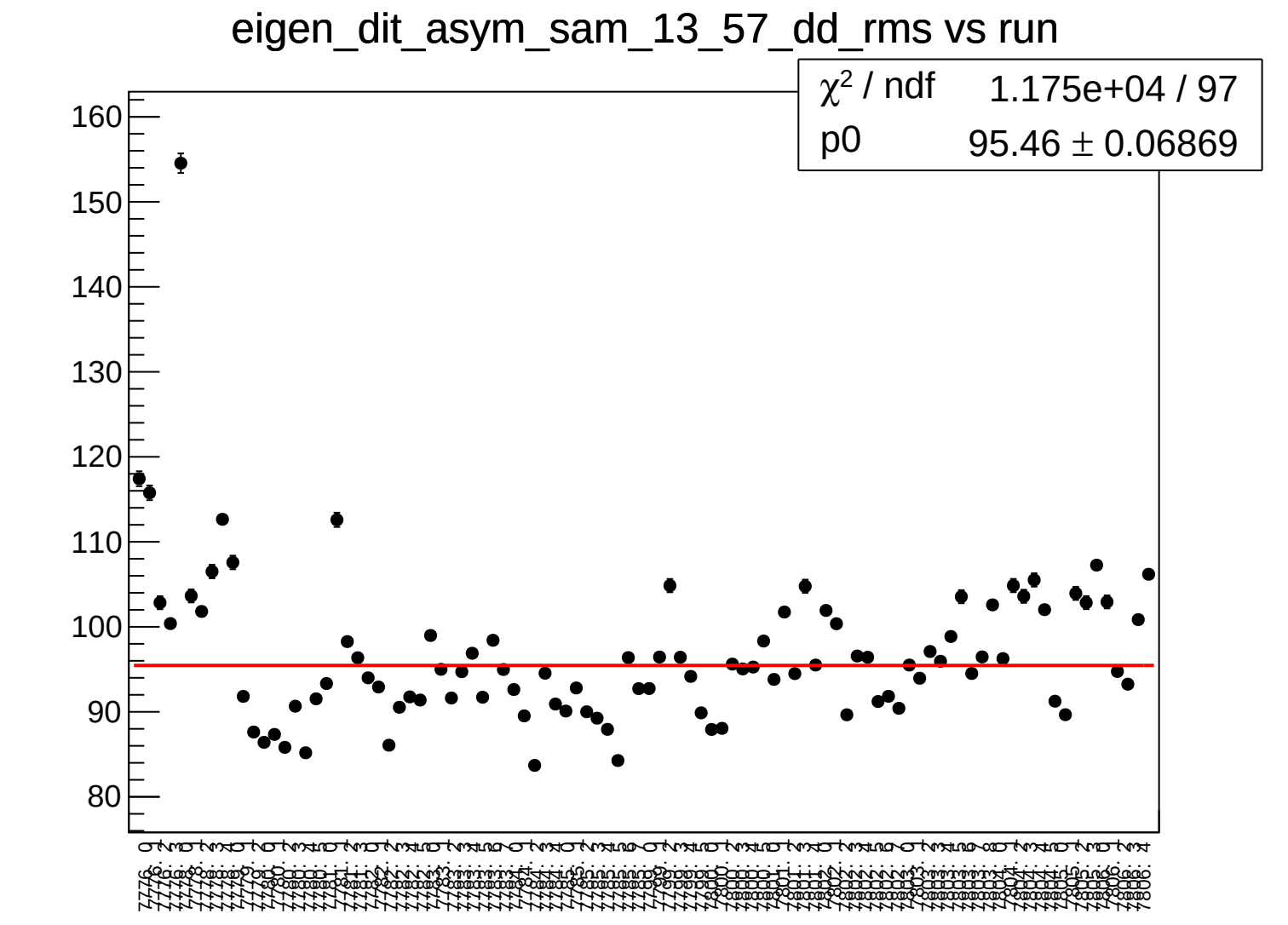

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.175e+04 / 97
p0 95.46 ± 0.06869
160
150
140
130
120
110
100
90
80

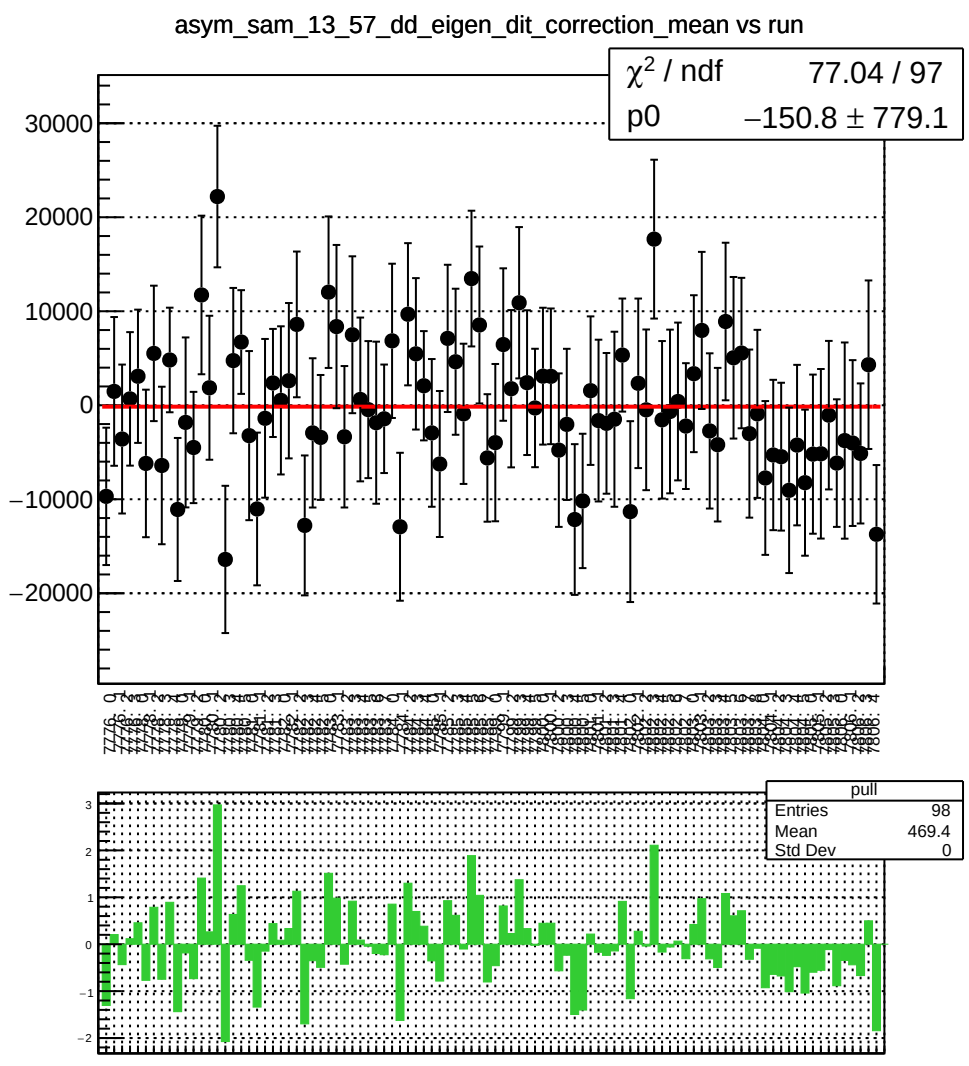

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 77.04 / 97
p0 −150.8 ± 779.1
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 469.4
Std Dev 0
3
2
1
0
−1
−2

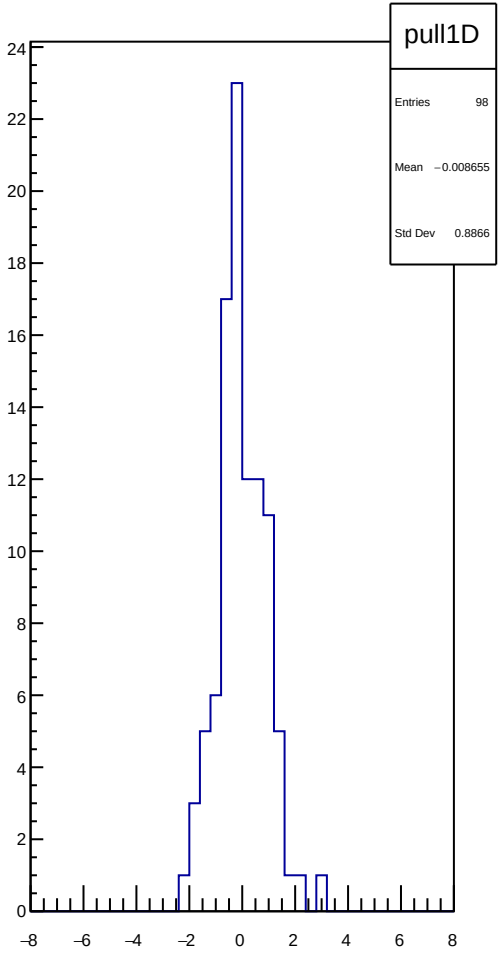

pull1D
Entries 98
Mean −0.008656
Std Dev 0.8866
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

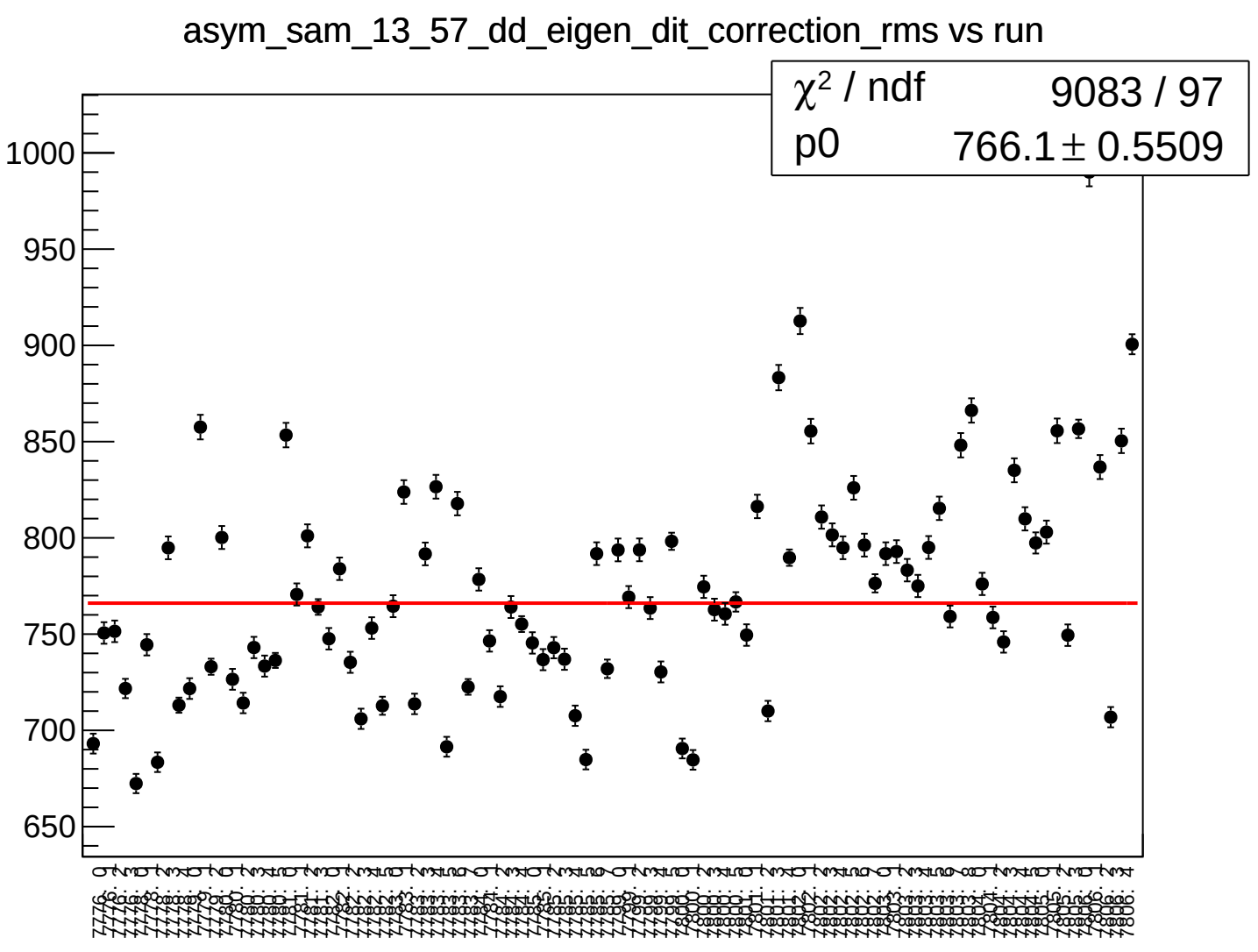

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 9083 / 97
p0 766.1 ± 0.5509
1000
950
900
850
800
750
700
650

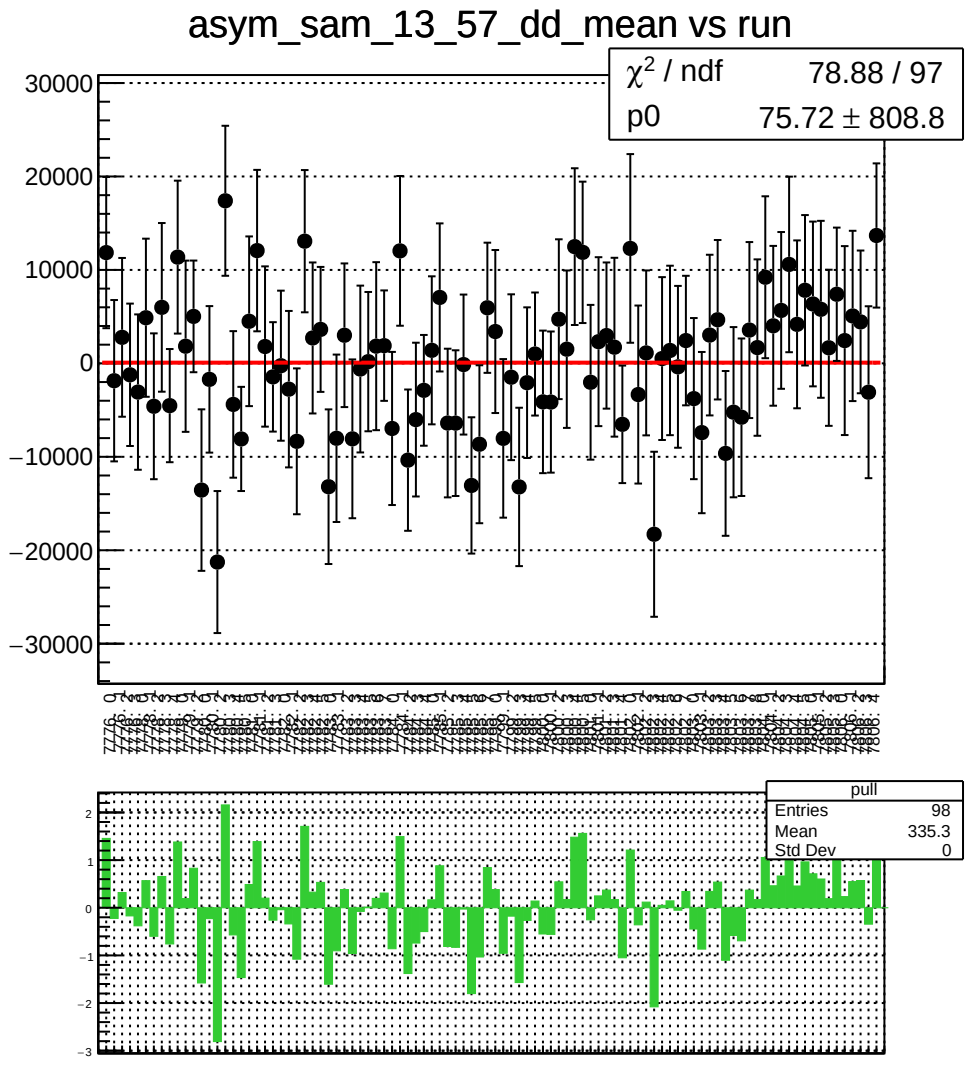

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 77.18 / 97
p0 −10.22 ± 97.15
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 98
Mean 339.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.007651
Std Dev 0.8874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

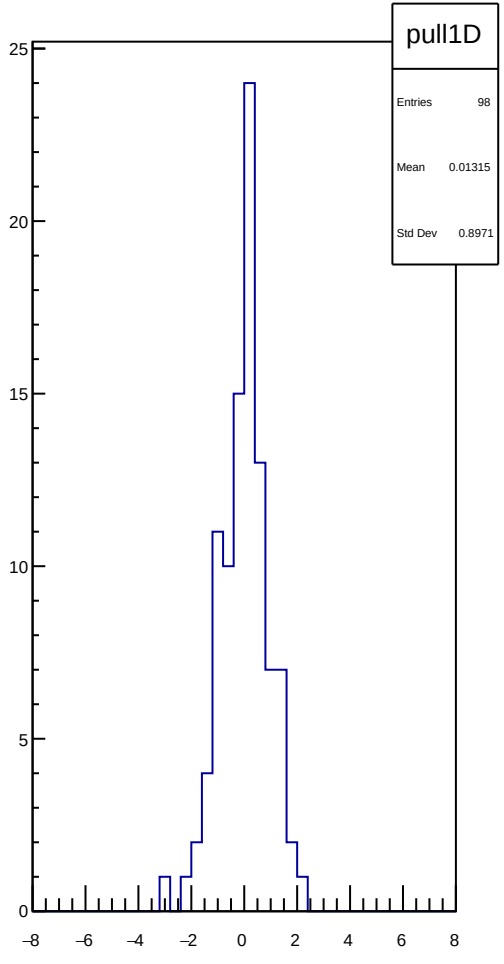

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.175e+04 / 97
p0 95.46 ± 0.06869
160
150
140
130
120
110
100
90
80

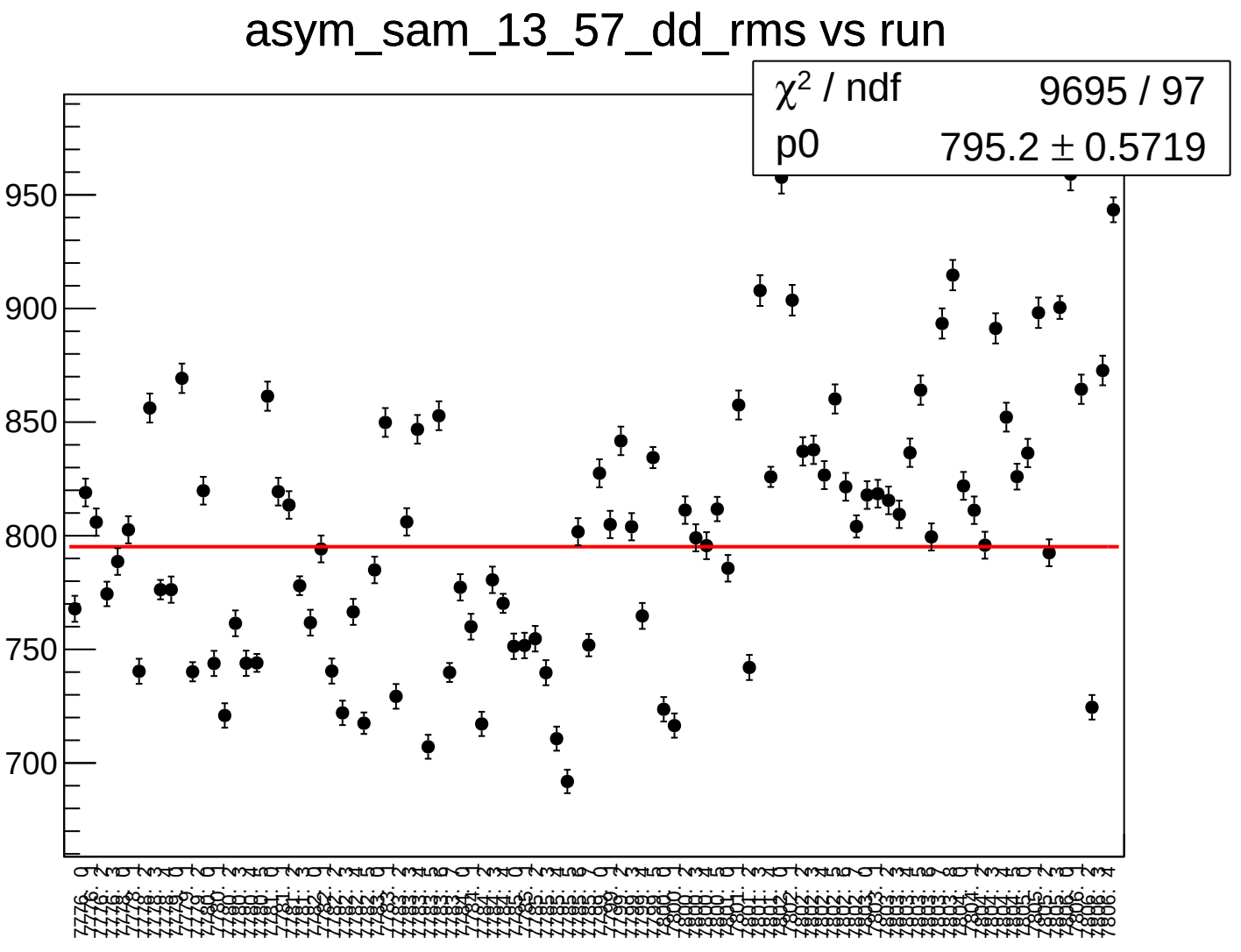

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.04 / 97
p0 −150.8 ± 779.1
30000
20000
10000
0
−10000
−20000
pull
Entries 98
Mean 469.4
Std Dev 0
3
2
1
0
−1
−2

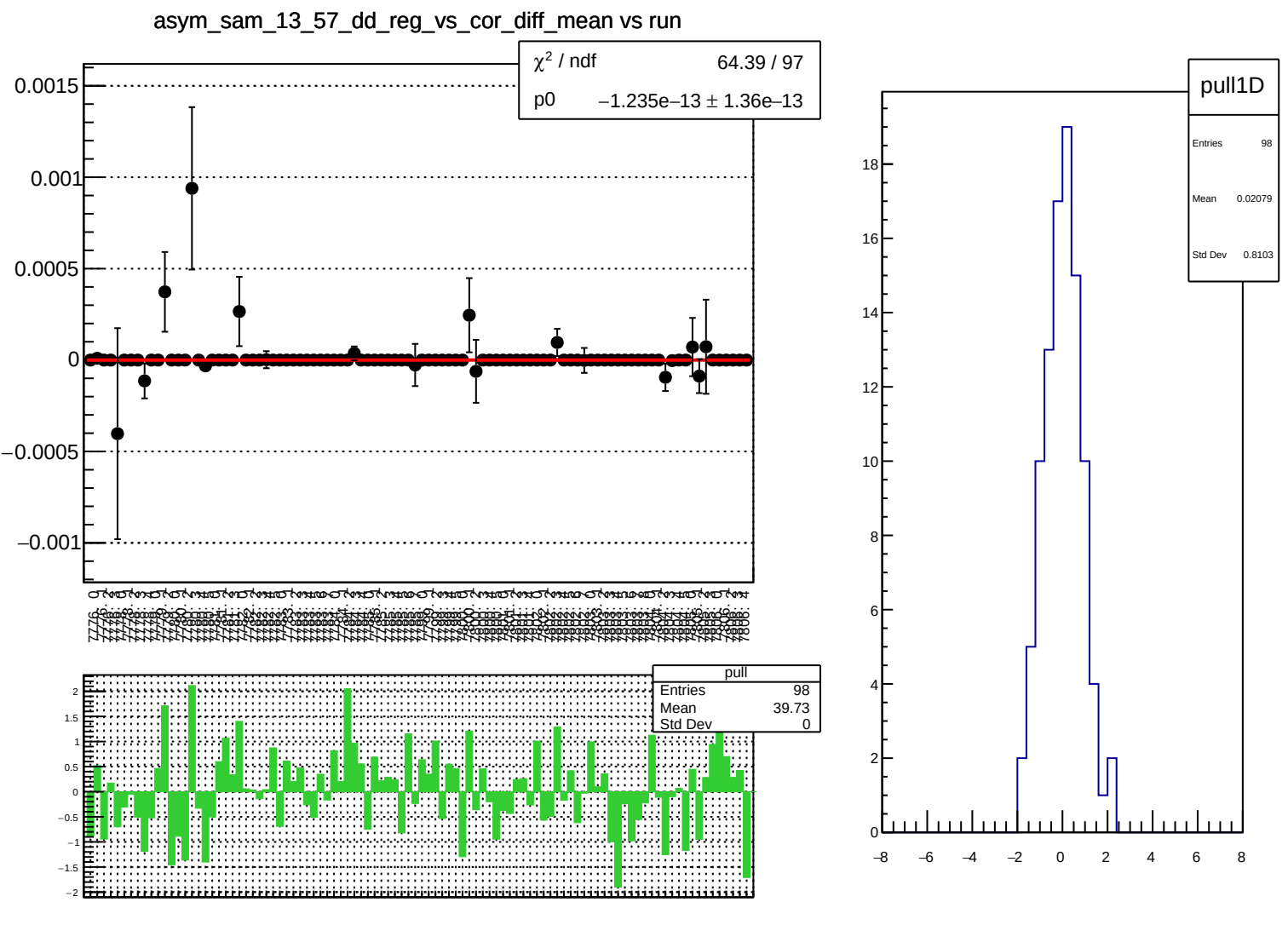

pull1D
Entries 98
Mean −0.008655
Std Dev 0.8866
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

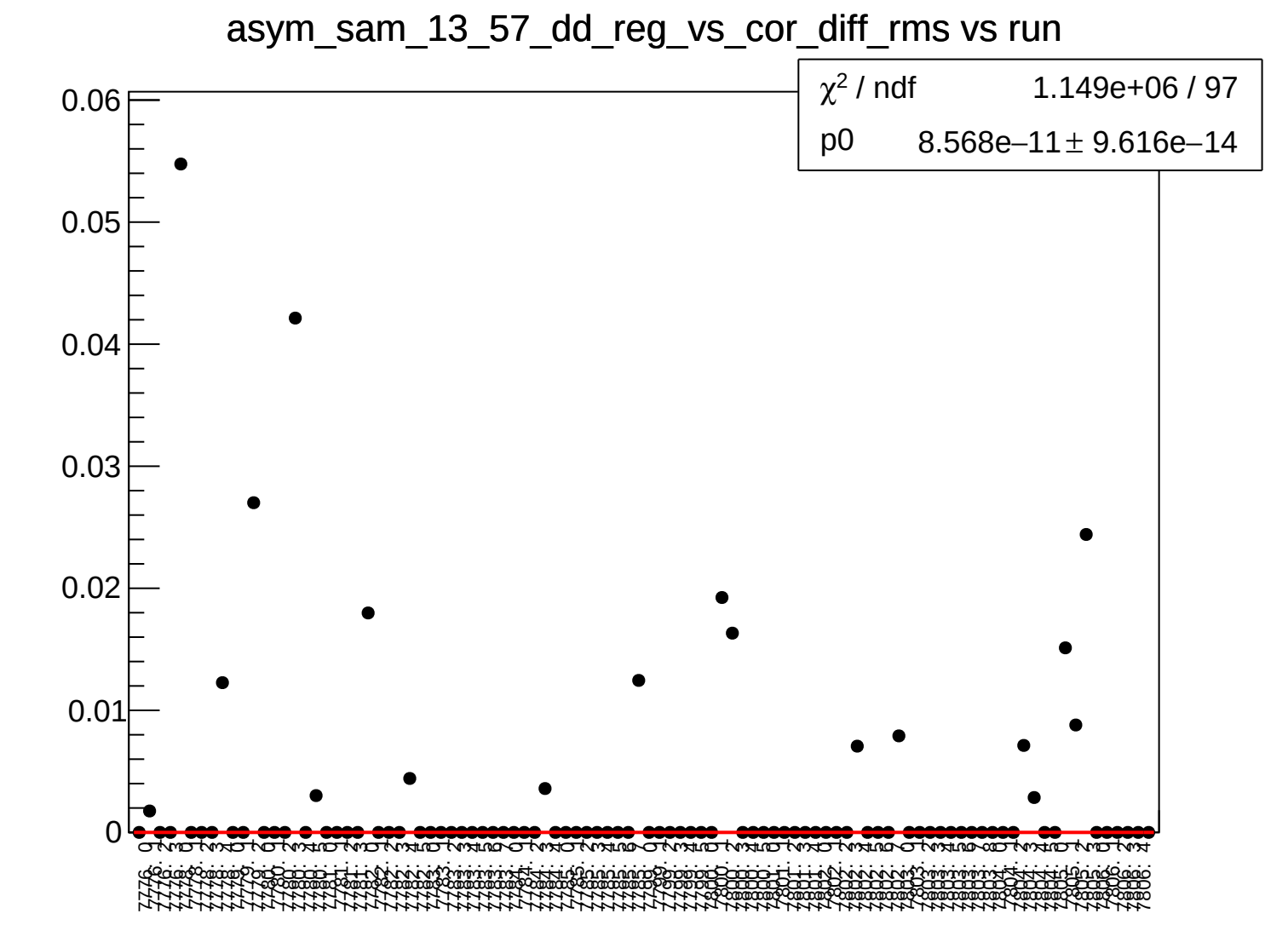

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 9083 / 97
p0 766.1 ± 0.5509
1000
950
900
850
800
750
700
650

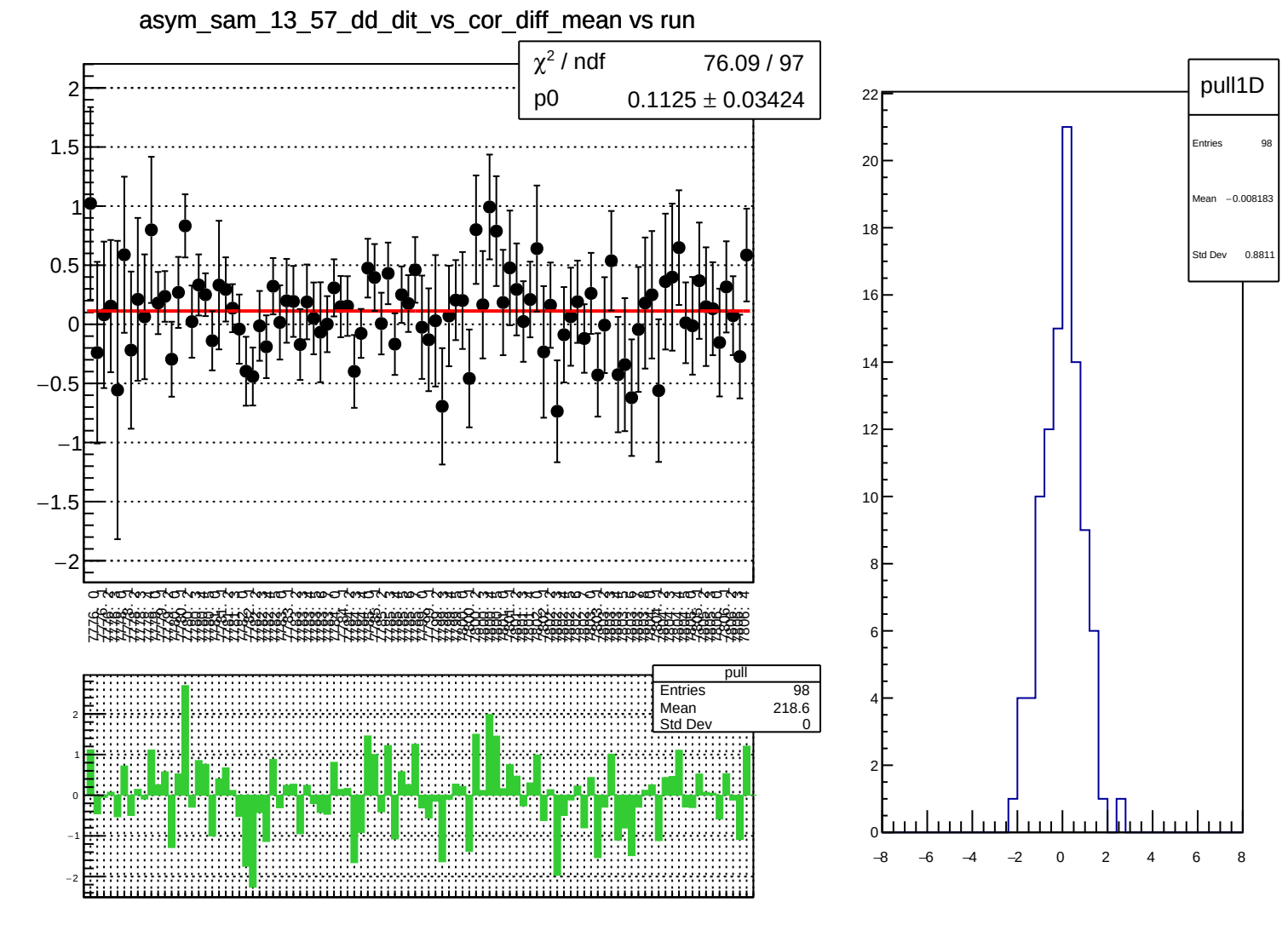

asym_sam_13_57_dd_mean vs run
χ² / ndf 78.88 / 97
p0 75.72 ± 808.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 335.3
Std Dev 0
2
1
0
−1
−2
−3

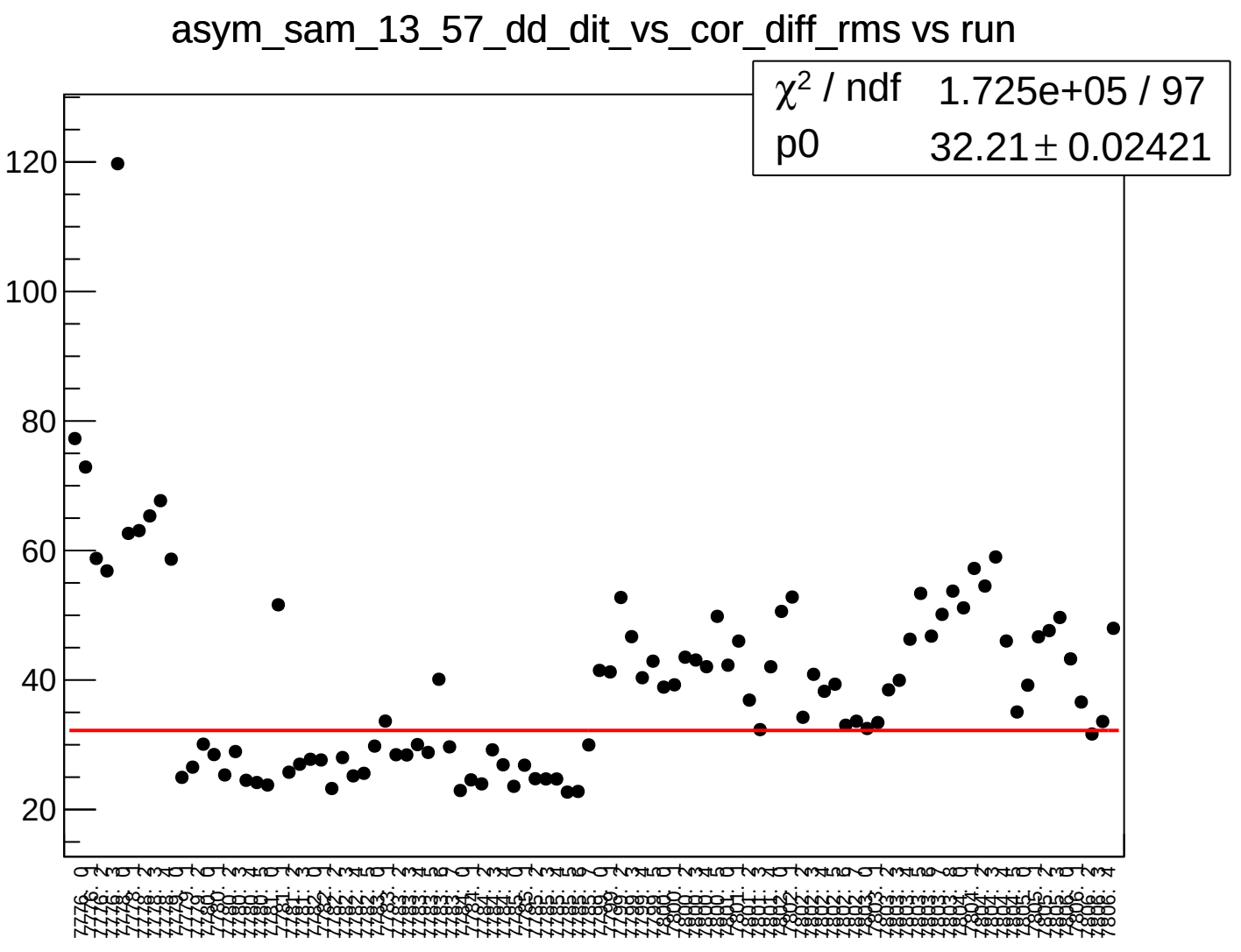

pull1D
Entries 98
Mean 0.01315
Std Dev 0.8971
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

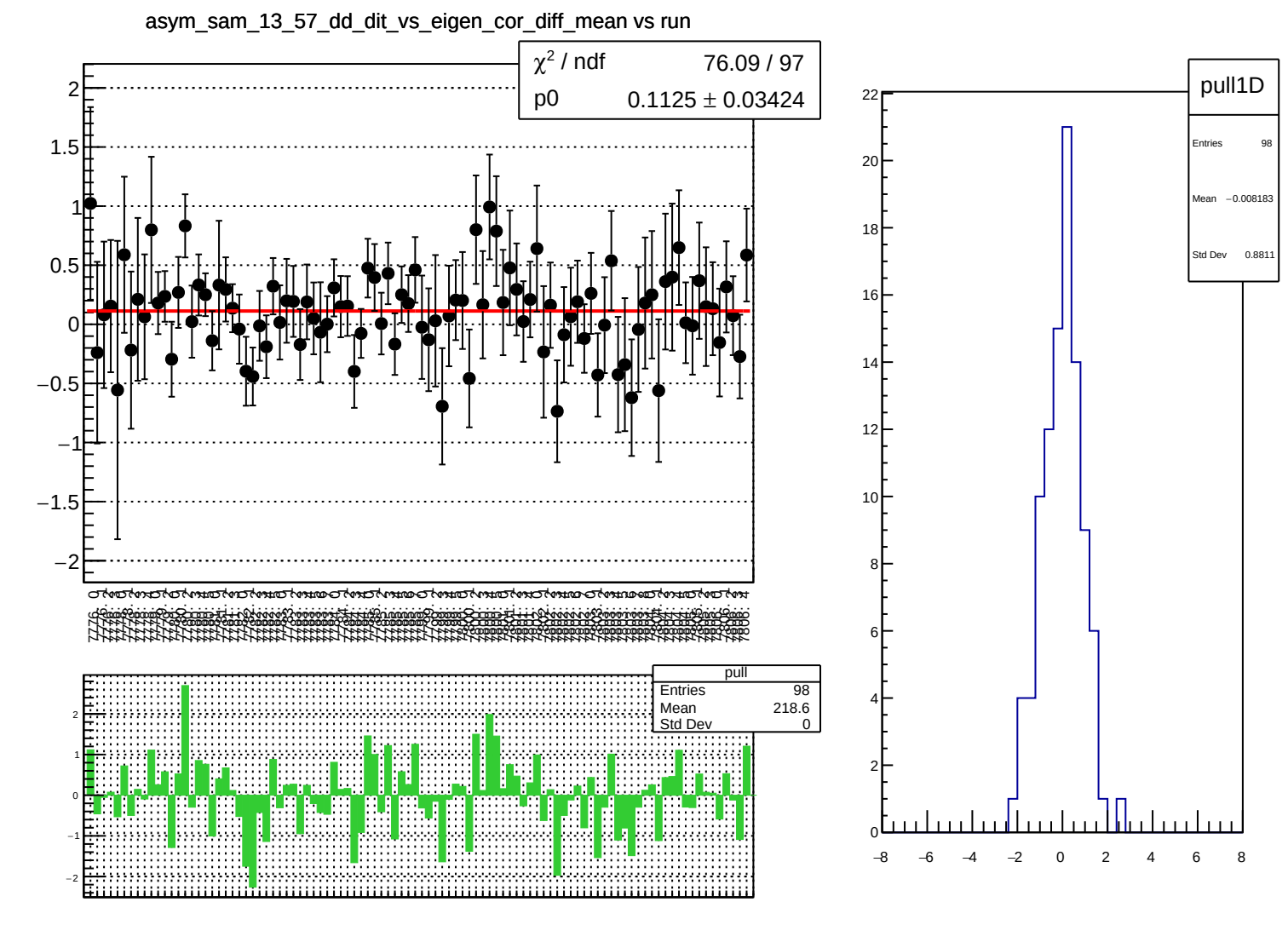

asym_sam_13_57_dd_rms vs run
χ² / ndf 9695 / 97
p0 795.2 ± 0.5719
950
900
850
800
750
700

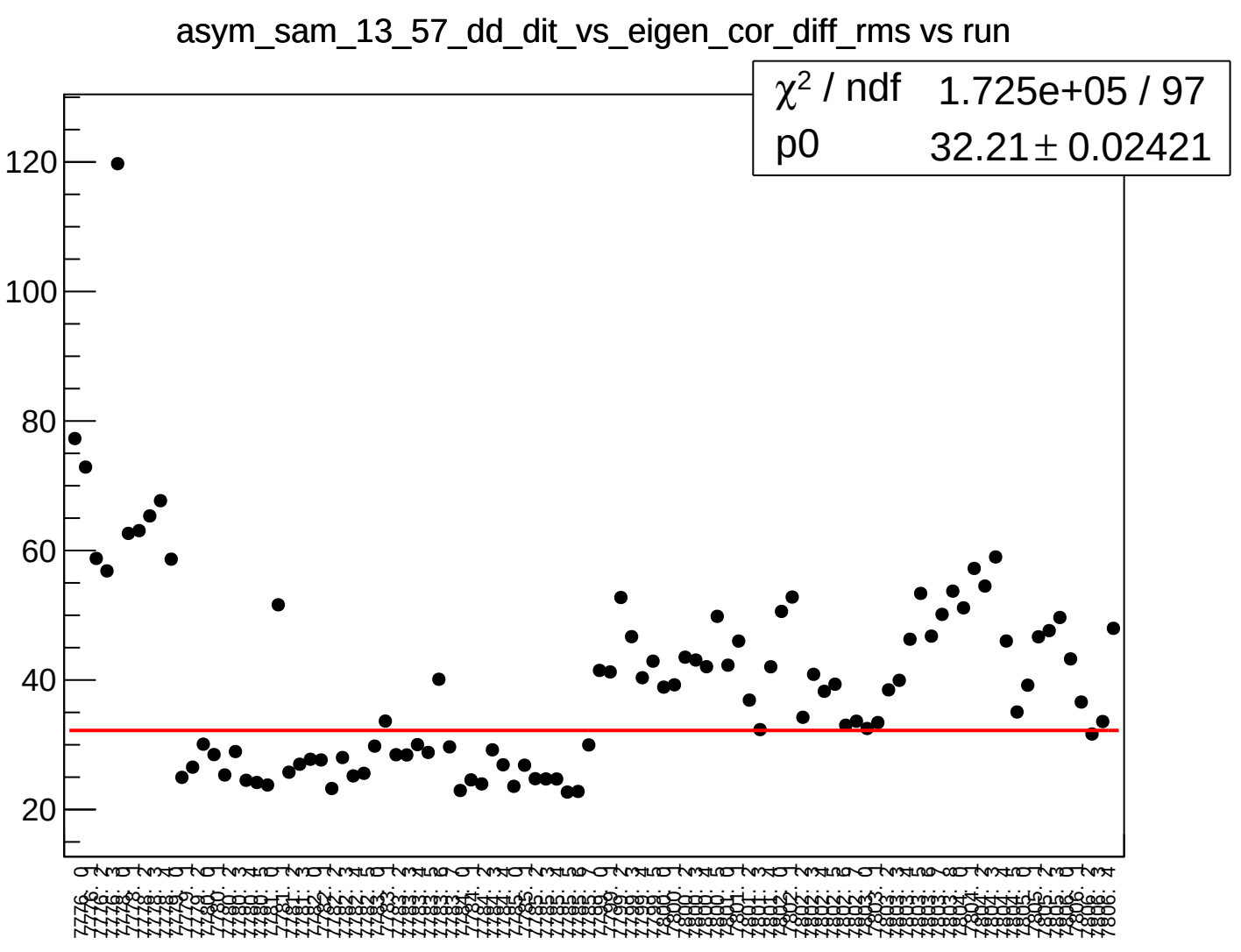

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.39 / 97
p0 −1.235e−13 ± 1.36e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 98
Mean 39.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.02079
Std Dev 0.8103
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

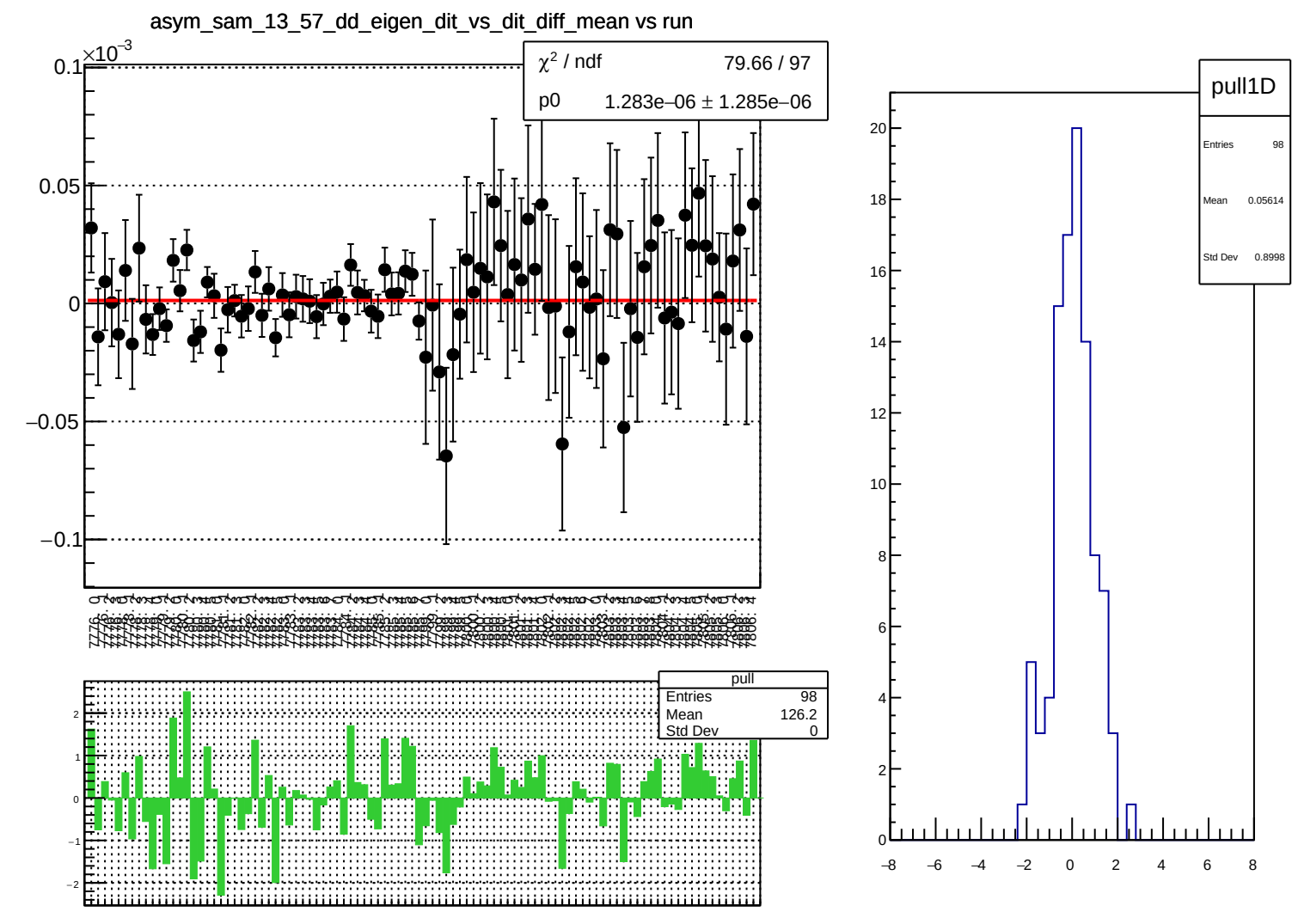

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.149e+06 / 97
p0 8.568e−11 ± 9.616e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

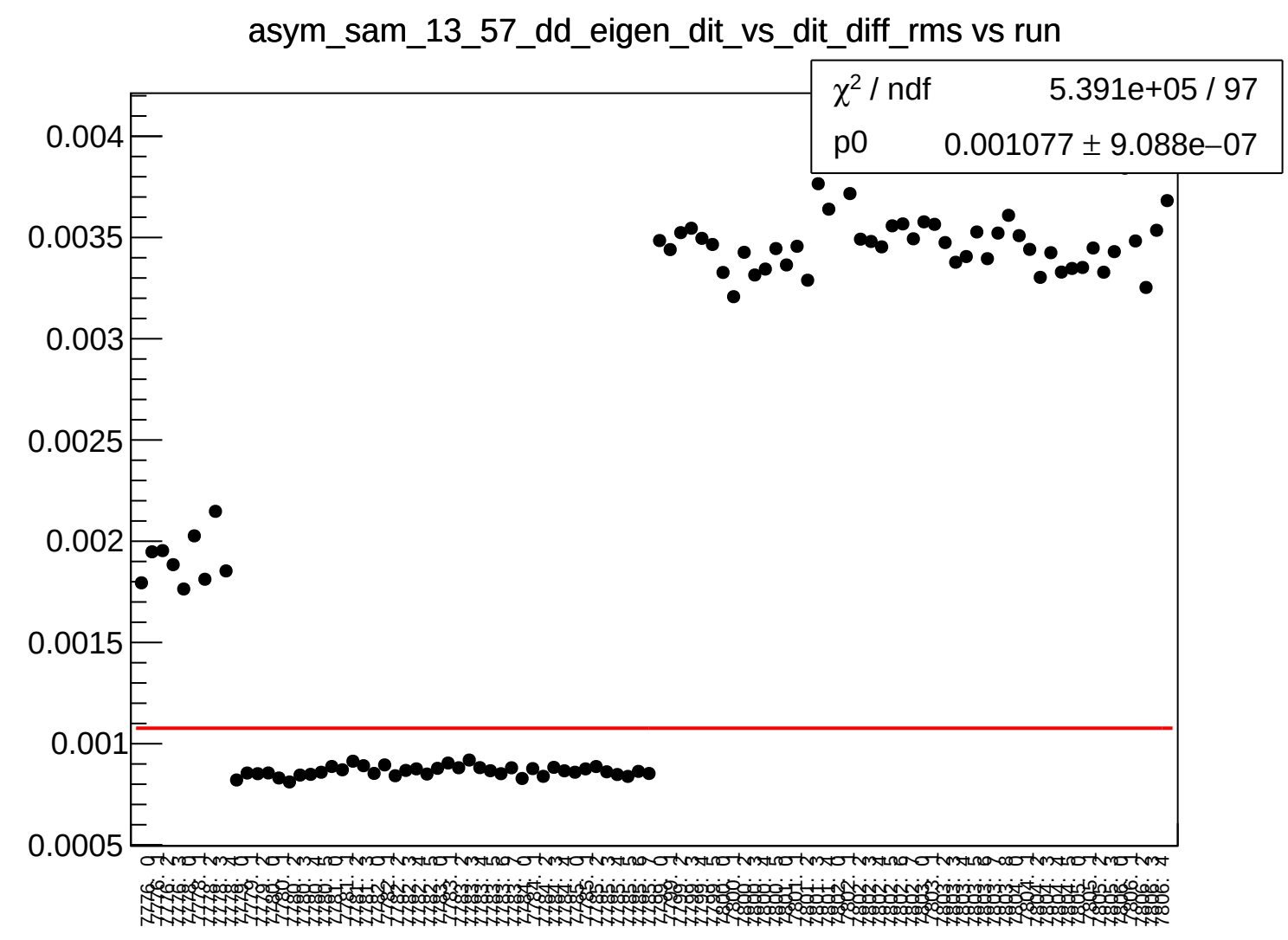

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.09 / 97
p0 0.1125 ± 0.03424
pull
Entries 98
Mean 218.6
Std Dev 0
pull1D
Entries 98
Mean −0.008183
Std Dev 0.8811

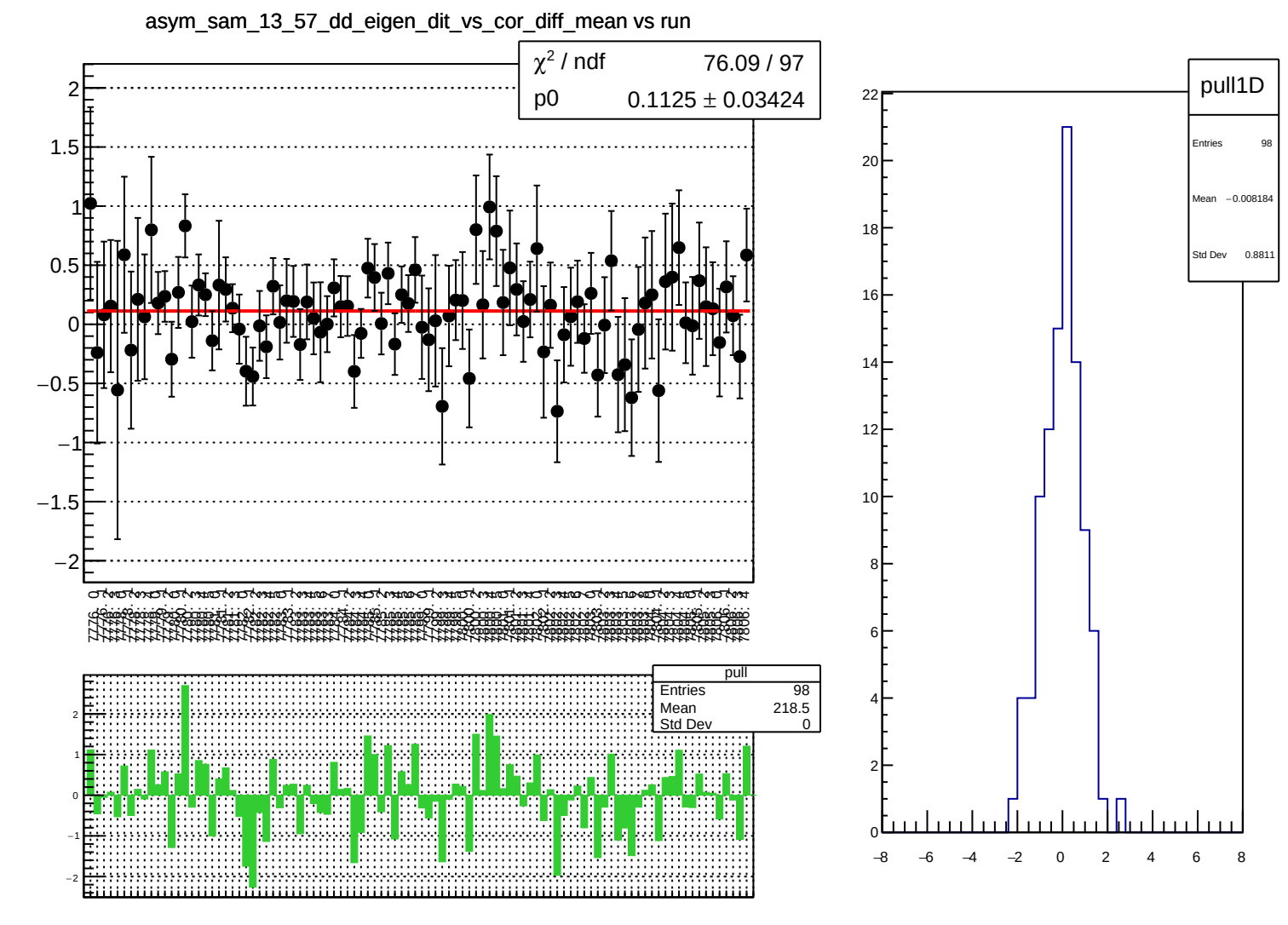

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.725e+05 / 97
p0 32.21 ± 0.02421
120
100
80
60
40
20

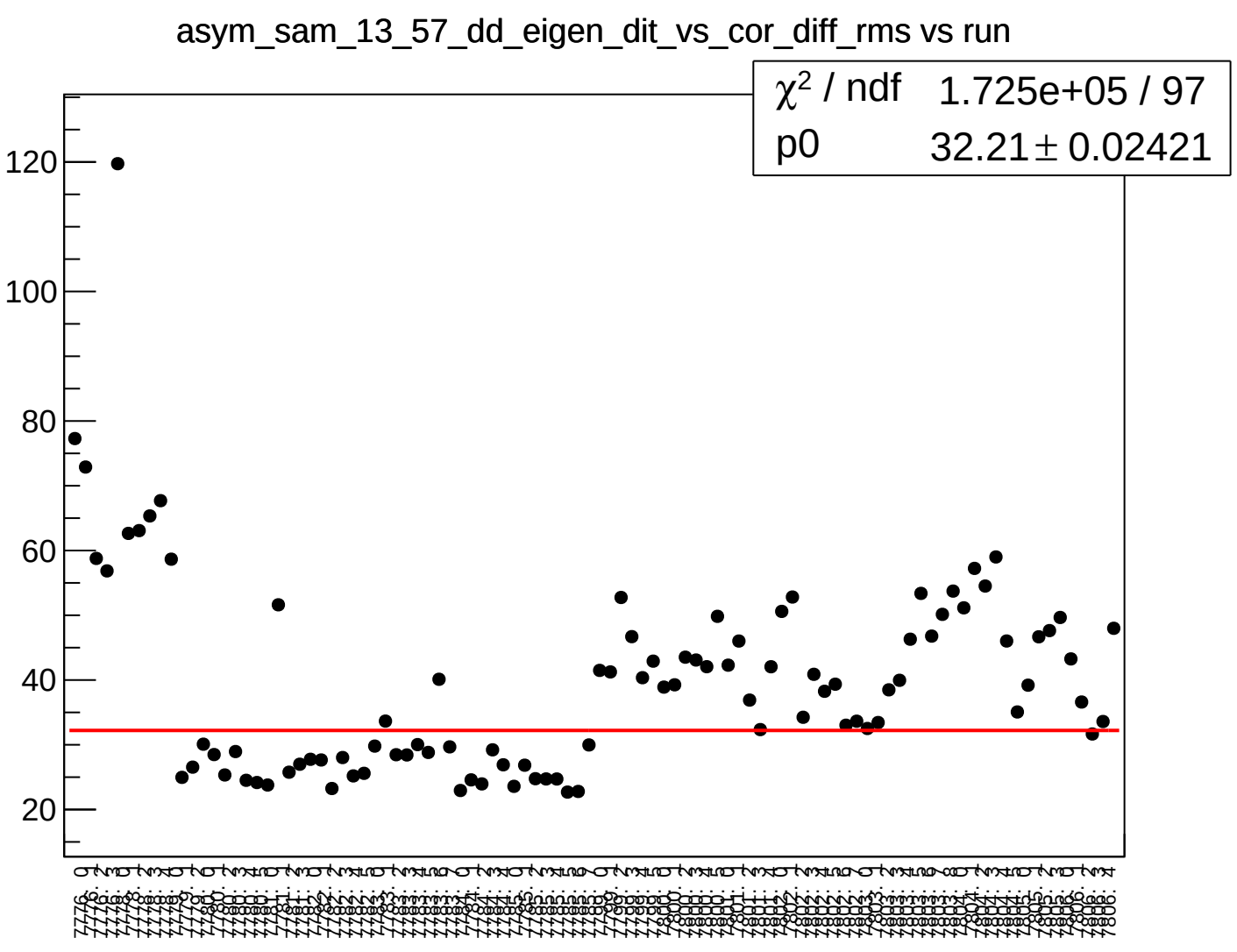

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.09 / 97
p0 0.1125 ± 0.03424
pull
Entries 98
Mean 218.6
Std Dev 0
pull1D
Entries 98
Mean −0.008183
Std Dev 0.8811

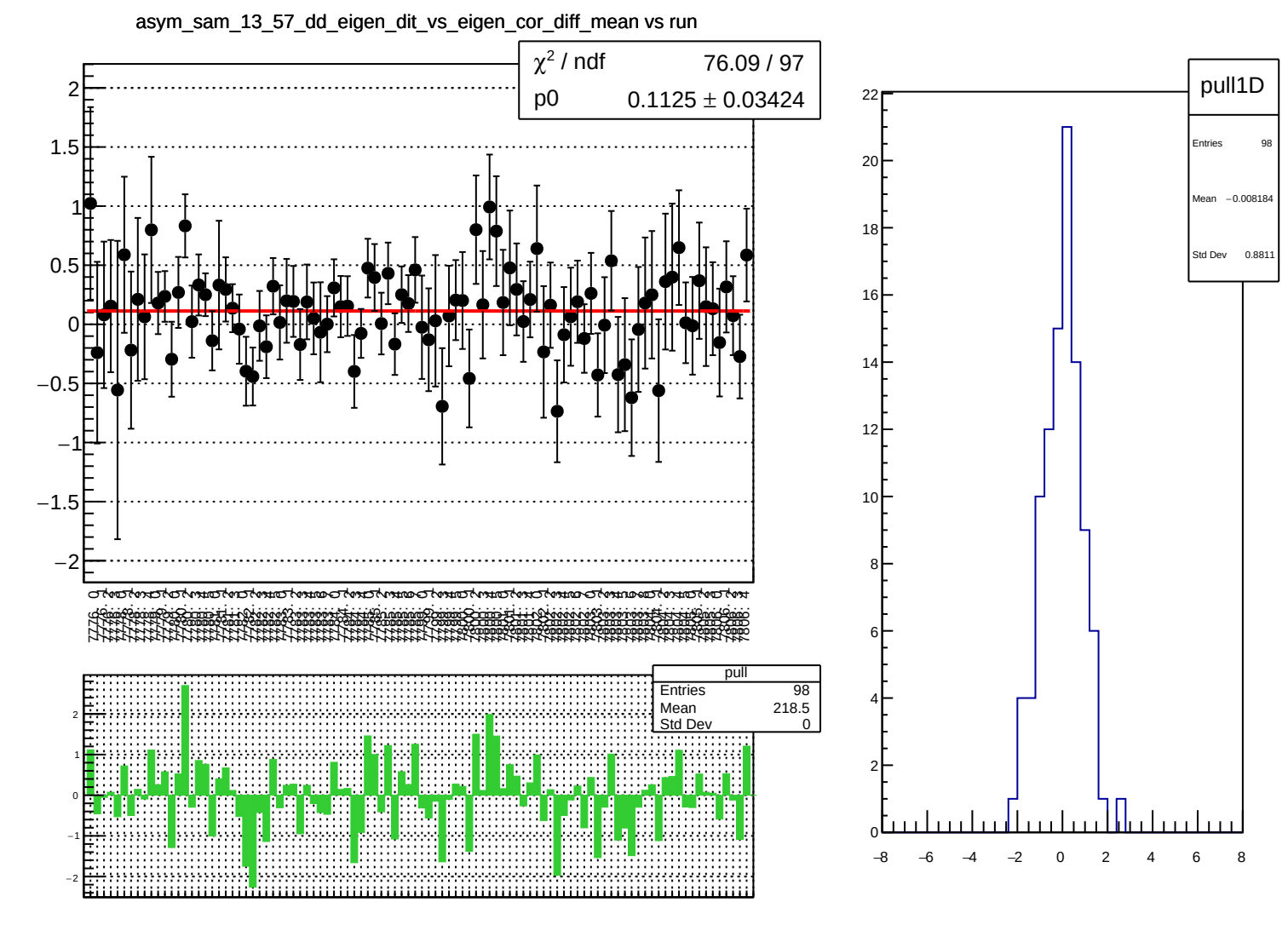

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.725e+05 / 97
p0 32.21 ± 0.02421
120
100
80
60
40
20

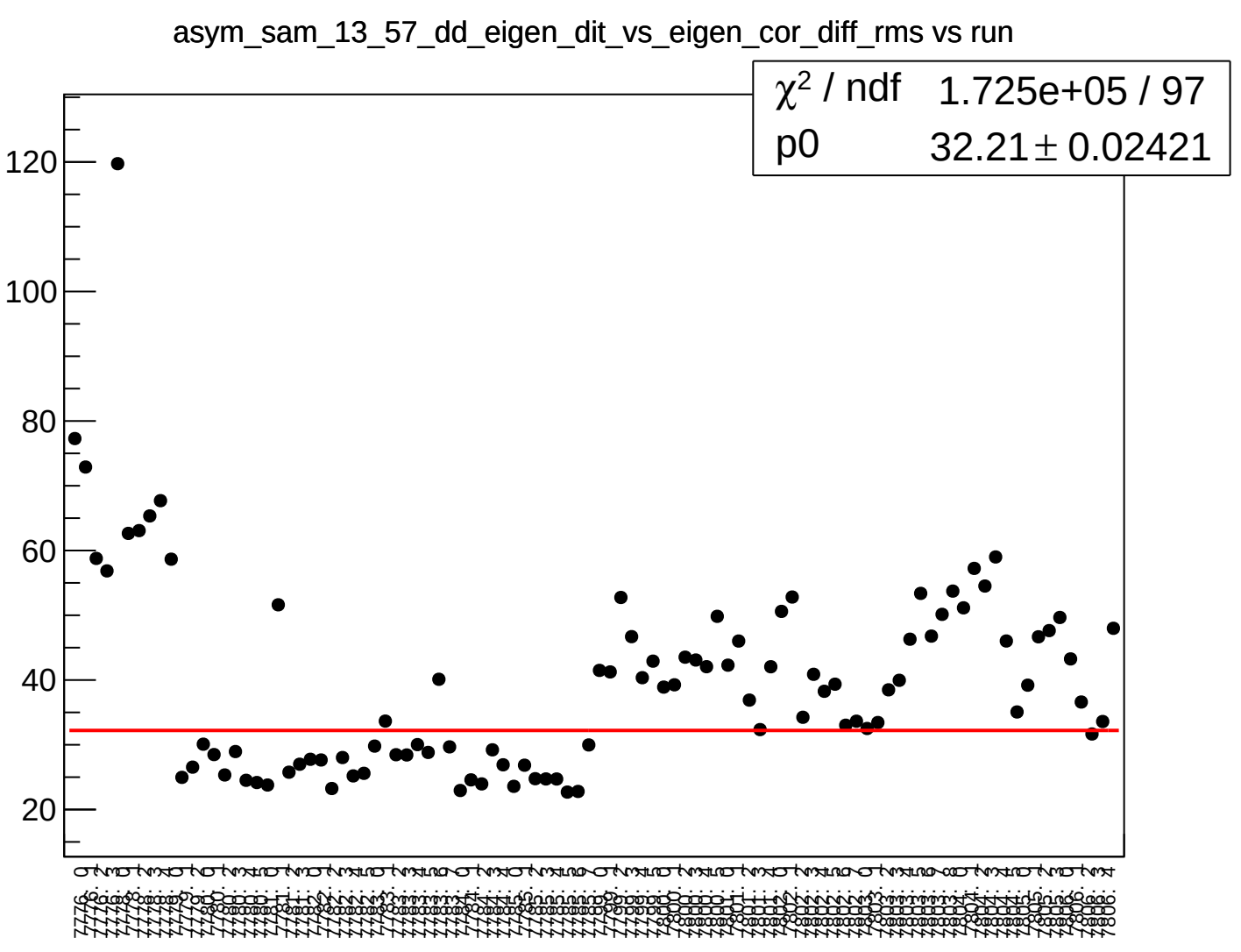

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.66 / 97
p0 1.283e−06 ± 1.285e−06
pull
Entries 98
Mean 126.2
Std Dev 0
pull1D
Entries 98
Mean 0.05614
Std Dev 0.8998

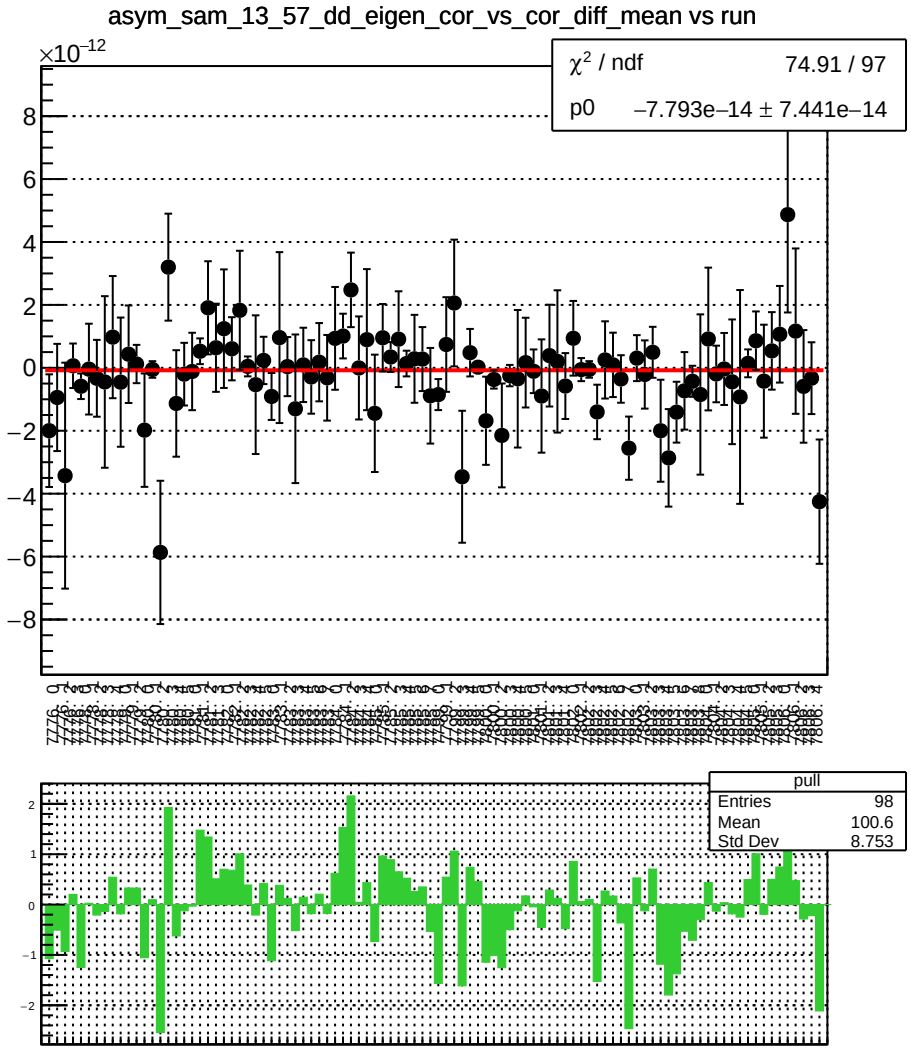

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.391e+05 / 97
p0 0.001077 ± 9.088e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

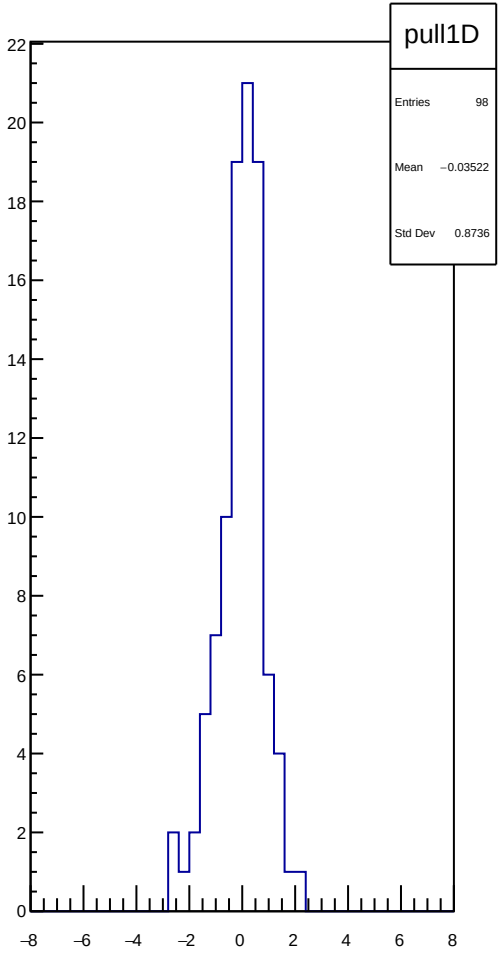

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.09 / 97
p0 0.1125 ± 0.03424
pull
Entries 98
Mean 218.5
Std Dev 0
pull1D
Entries 98
Mean −0.008184
Std Dev 0.8811

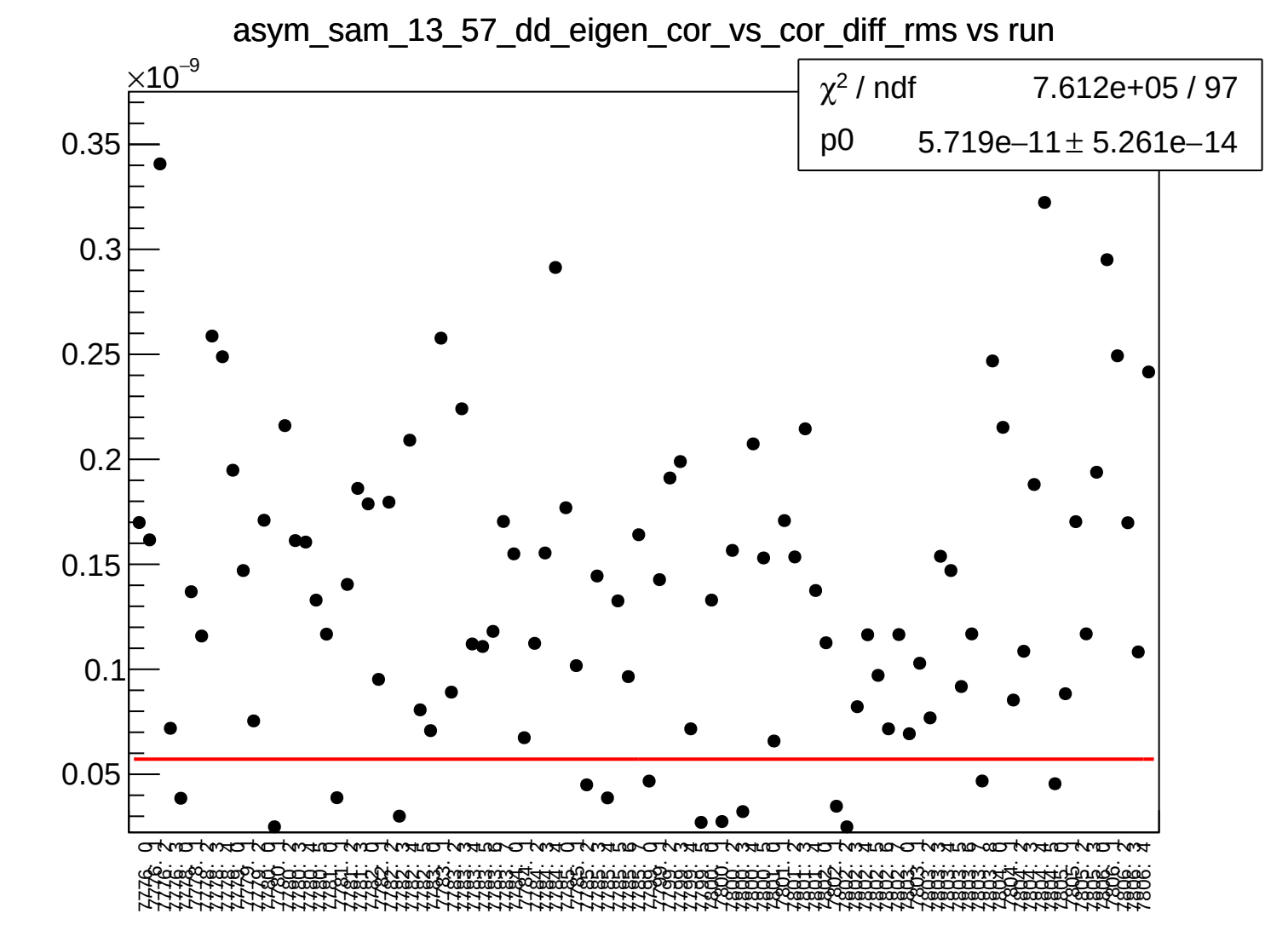

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.725e+05 / 97
p0 32.21 ± 0.02421
120
100
80
60
40
20

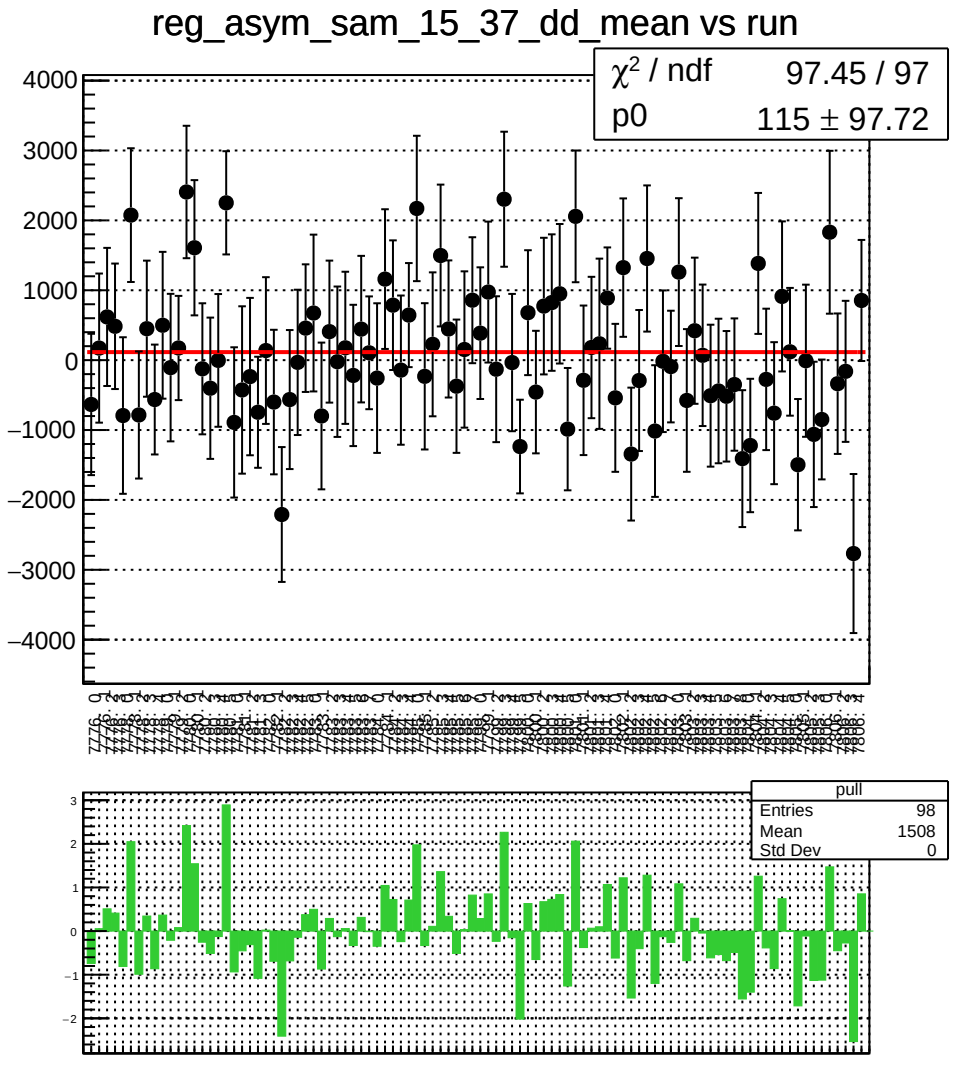

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.09 / 97
p0 0.1125 ± 0.03424
pull
Entries 98
Mean 218.5
Std Dev 0
pull1D
Entries 98
Mean −0.008184
Std Dev 0.8811

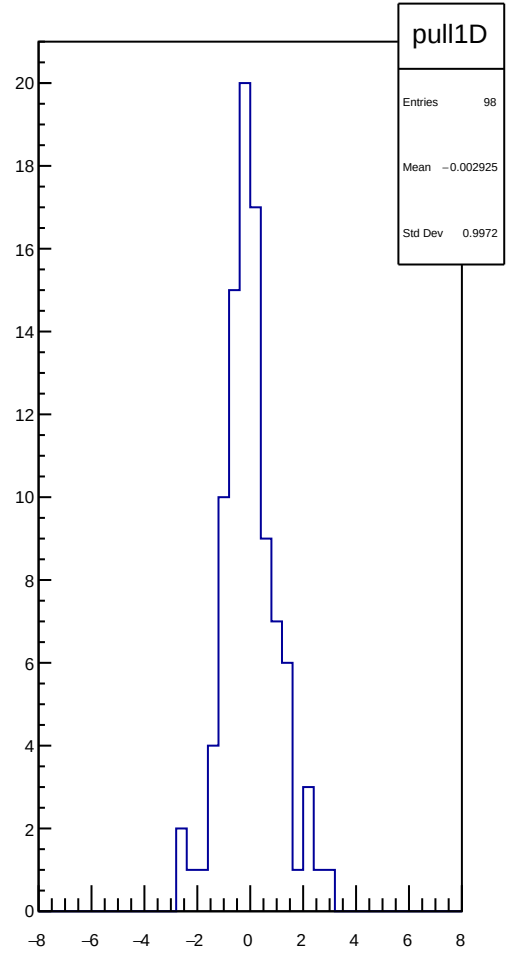

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.725e+05 / 97
p0 32.21 ± 0.02421
120
100
80
60
40
20

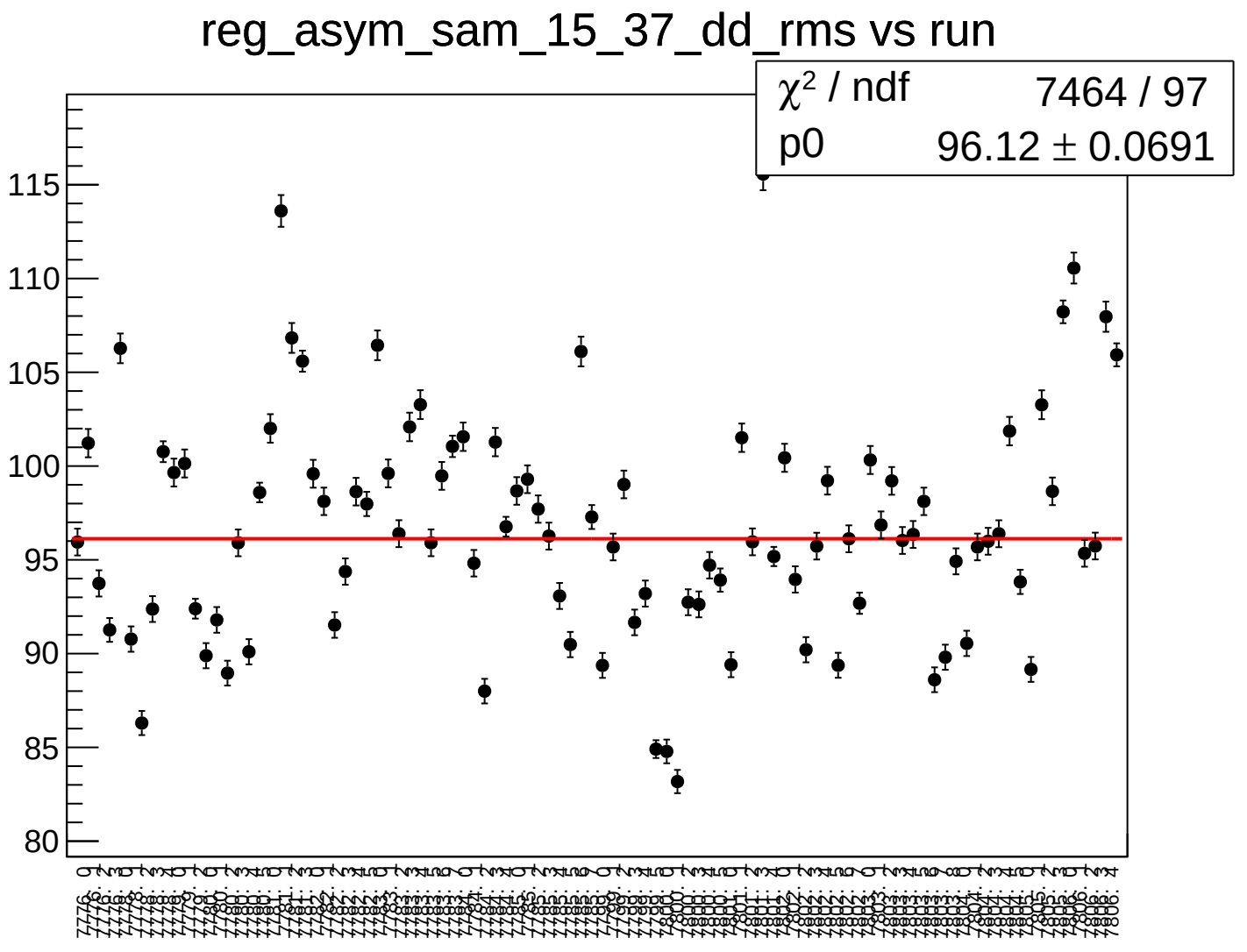

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 74.91 / 97
p0 −7.793e−14 ± 7.441e−14
pull
Entries 98
Mean 100.6
Std Dev 8.753

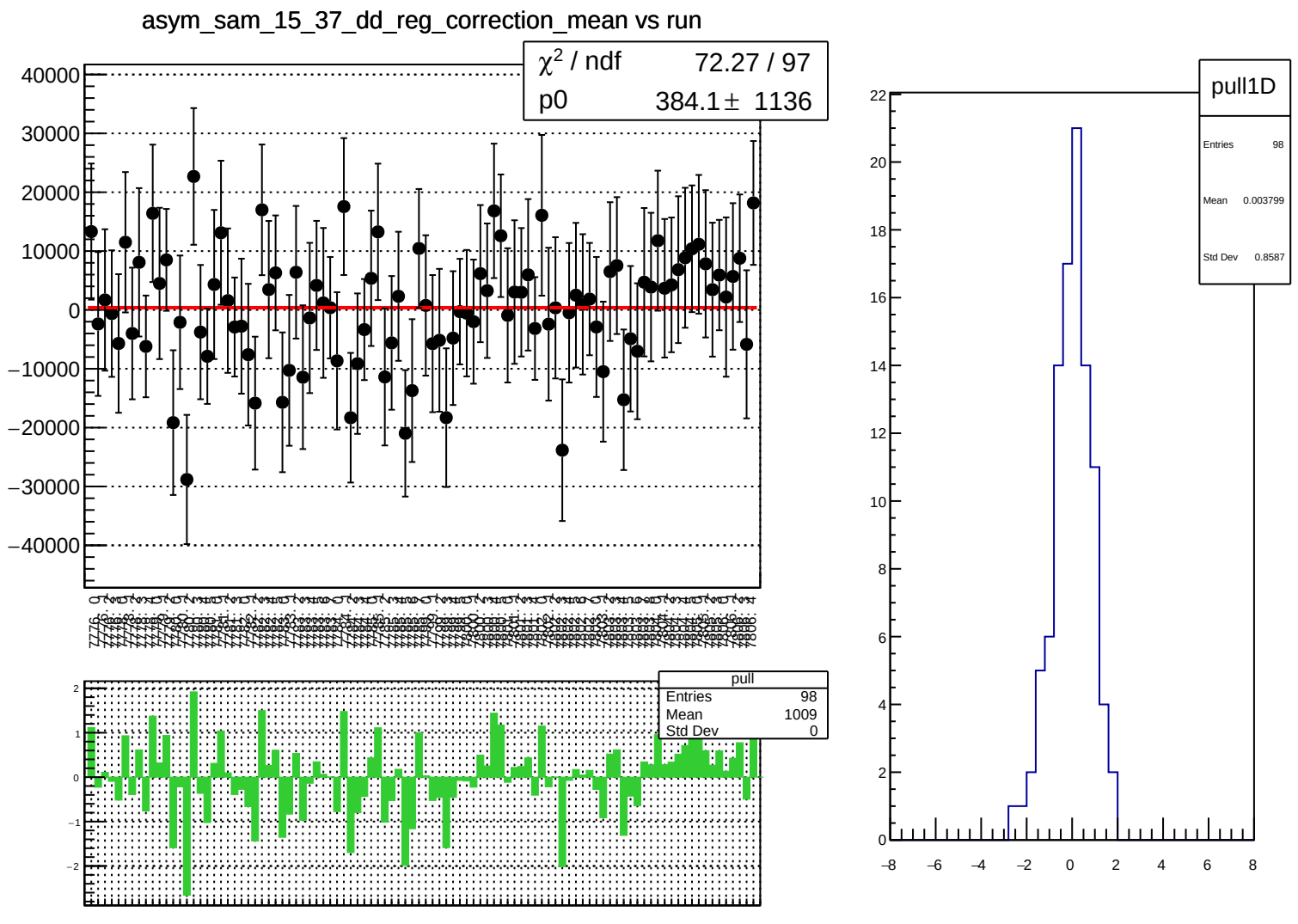

pull1D
Entries 98
Mean −0.03522
Std Dev 0.8736

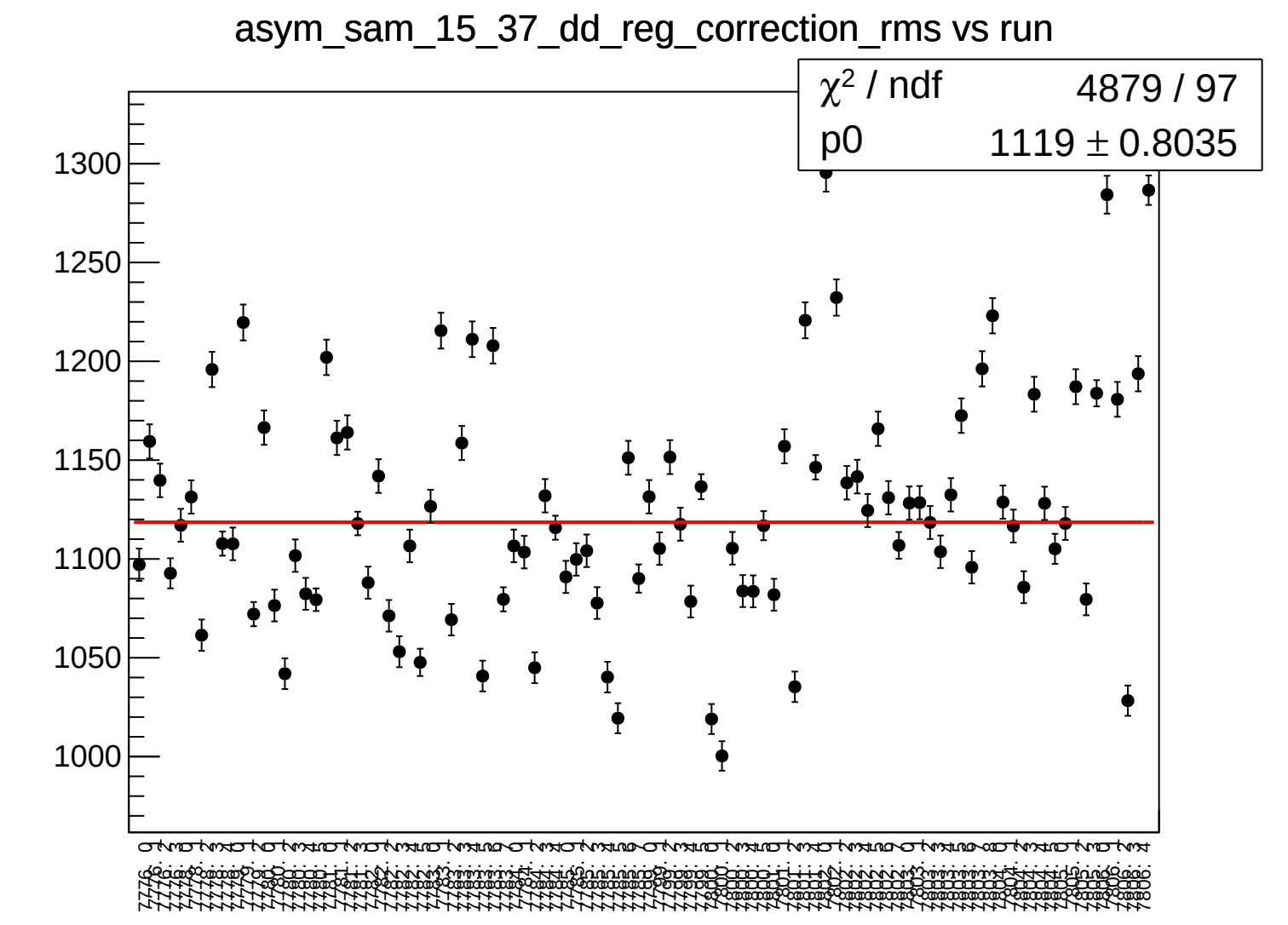

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.612e+05 / 97
p0 5.719e−11 ± 5.261e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

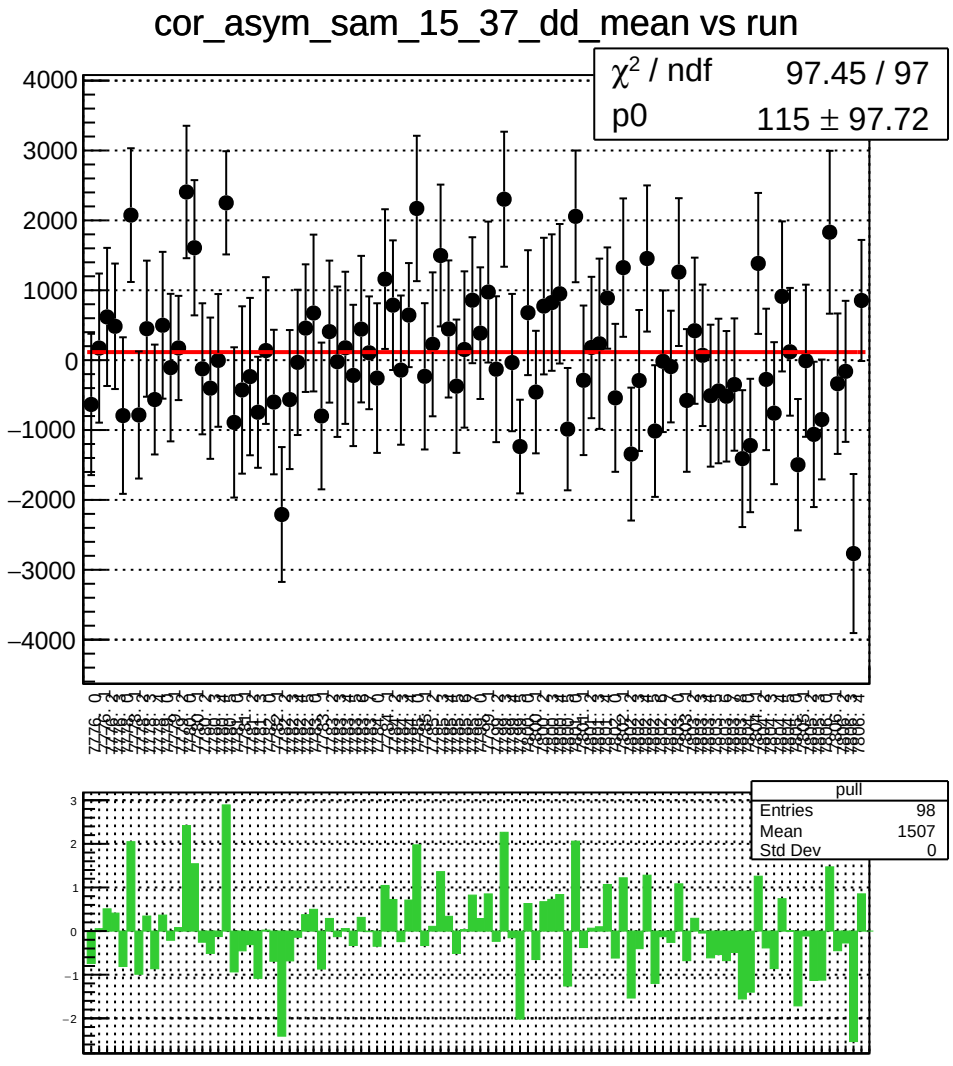

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 97.45 / 97
p0 115 ± 97.72
pull
Entries 98
Mean 1508
Std Dev 0

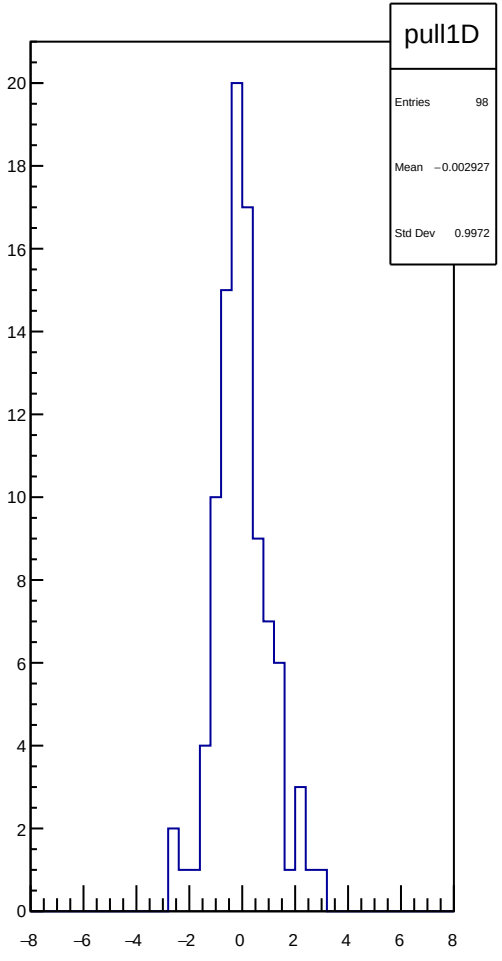

pull1D
Entries 98
Mean −0.002925
Std Dev 0.9972

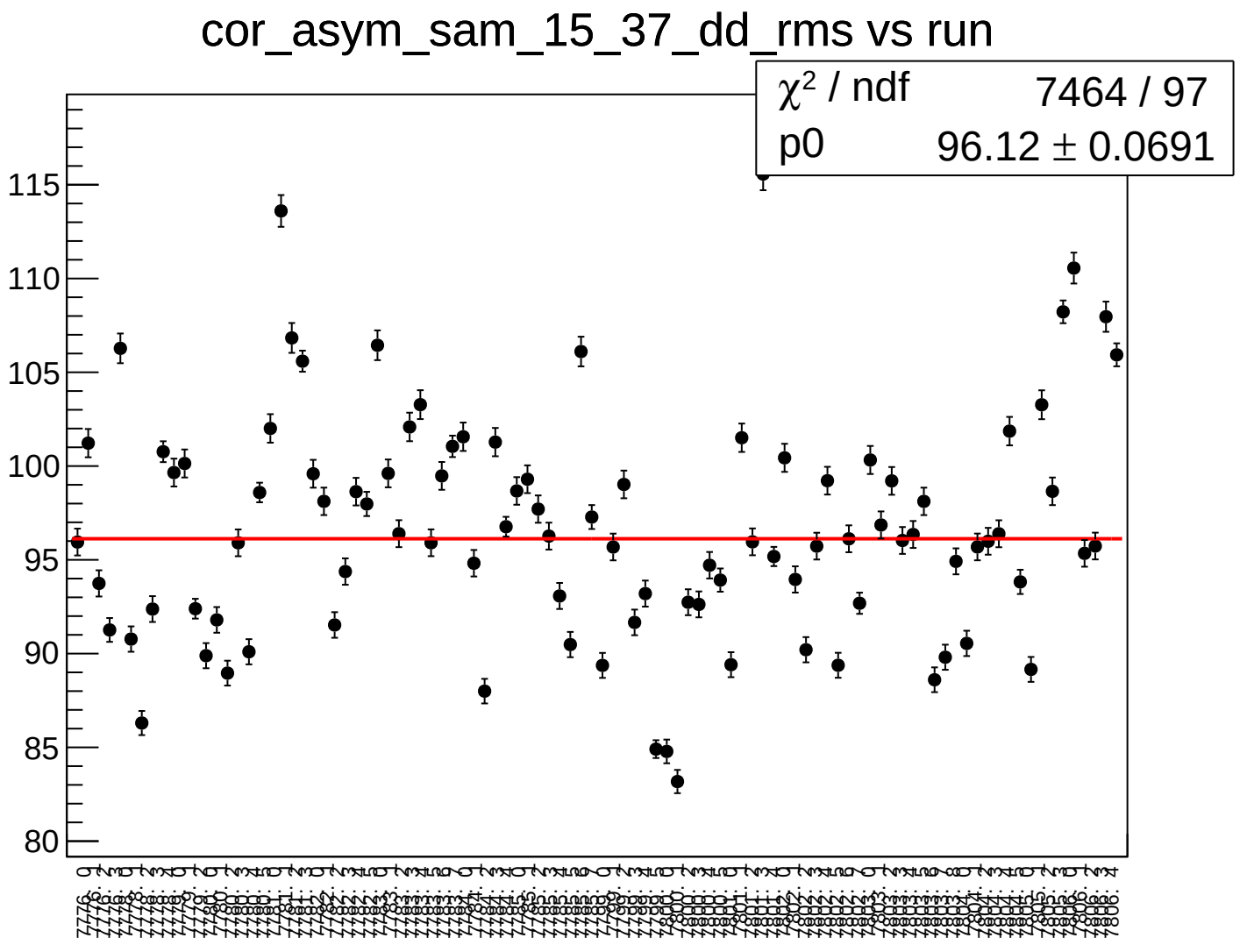

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 7464 / 97
p0 96.12 ± 0.0691
115
110
105
100
95
90
85
80

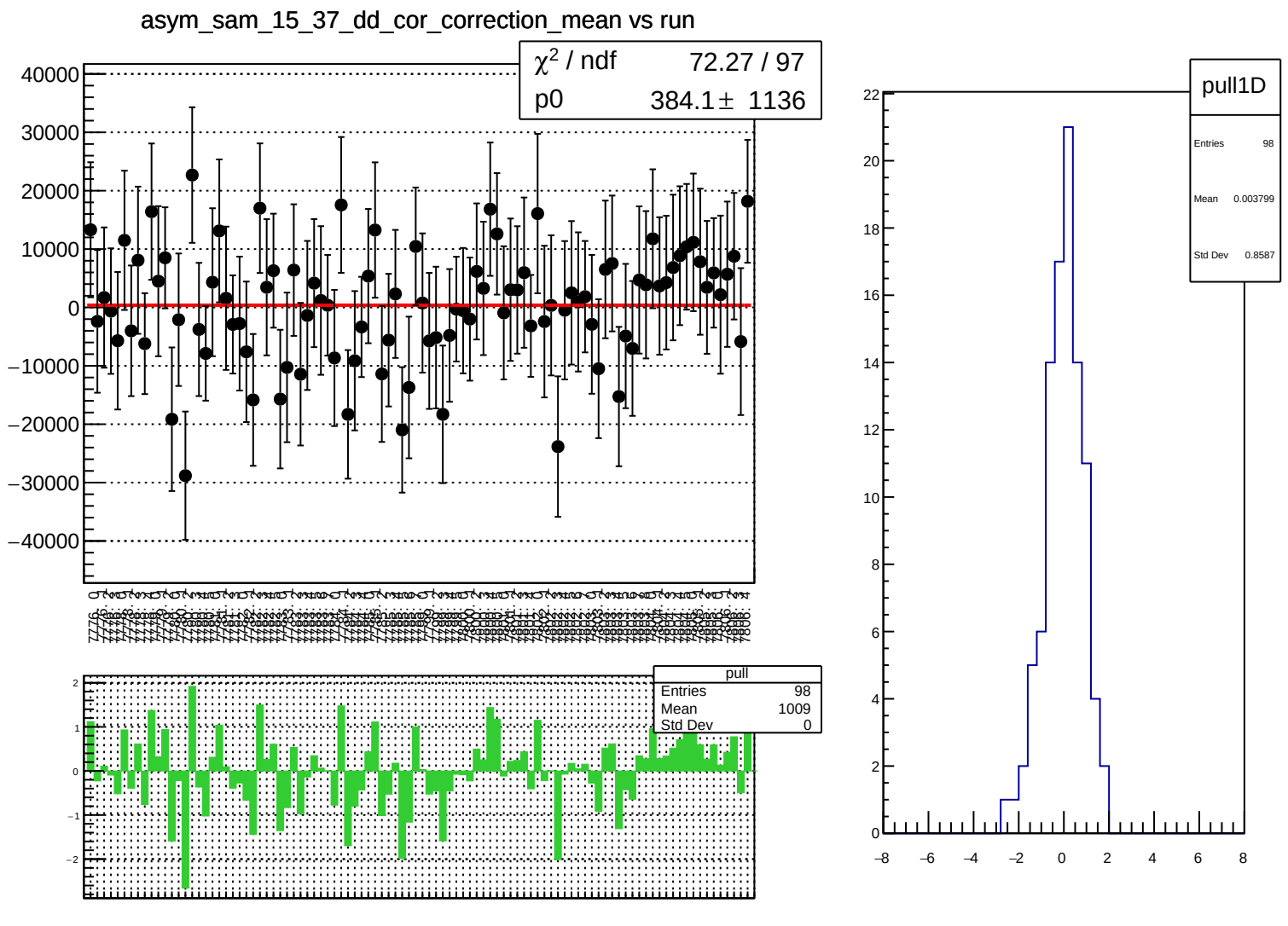

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 72.27 / 97
p0 384.1± 1136
pull
Entries 98
Mean 1009
Std Dev 0
pull1D
Entries 98
Mean 0.003799
Std Dev 0.8587

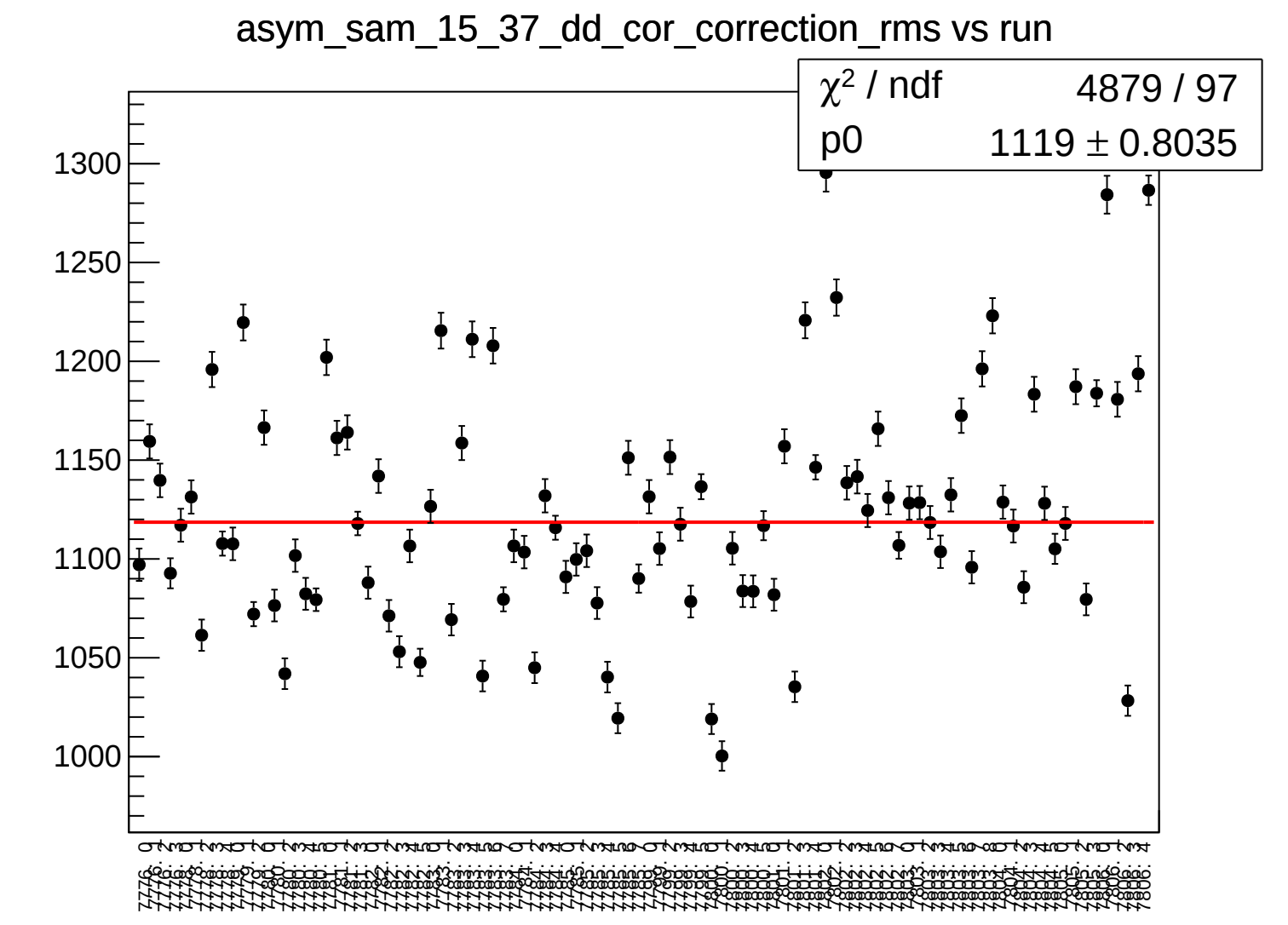

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 4879 / 97
p0 1119 ± 0.8035
1300
1250
1200
1150
1100
1050
1000

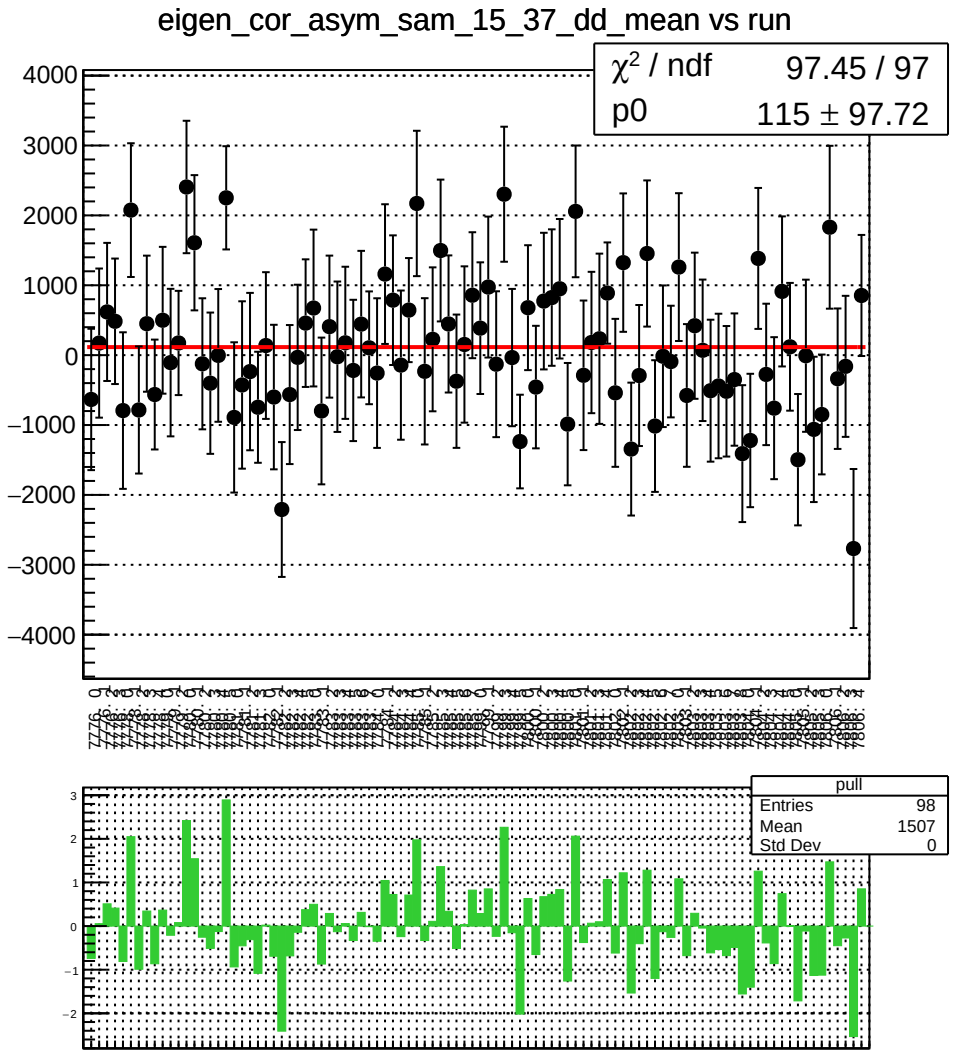

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 97.45 / 97
p0 115 ± 97.72
pull
Entries 98
Mean 1507
Std Dev 0

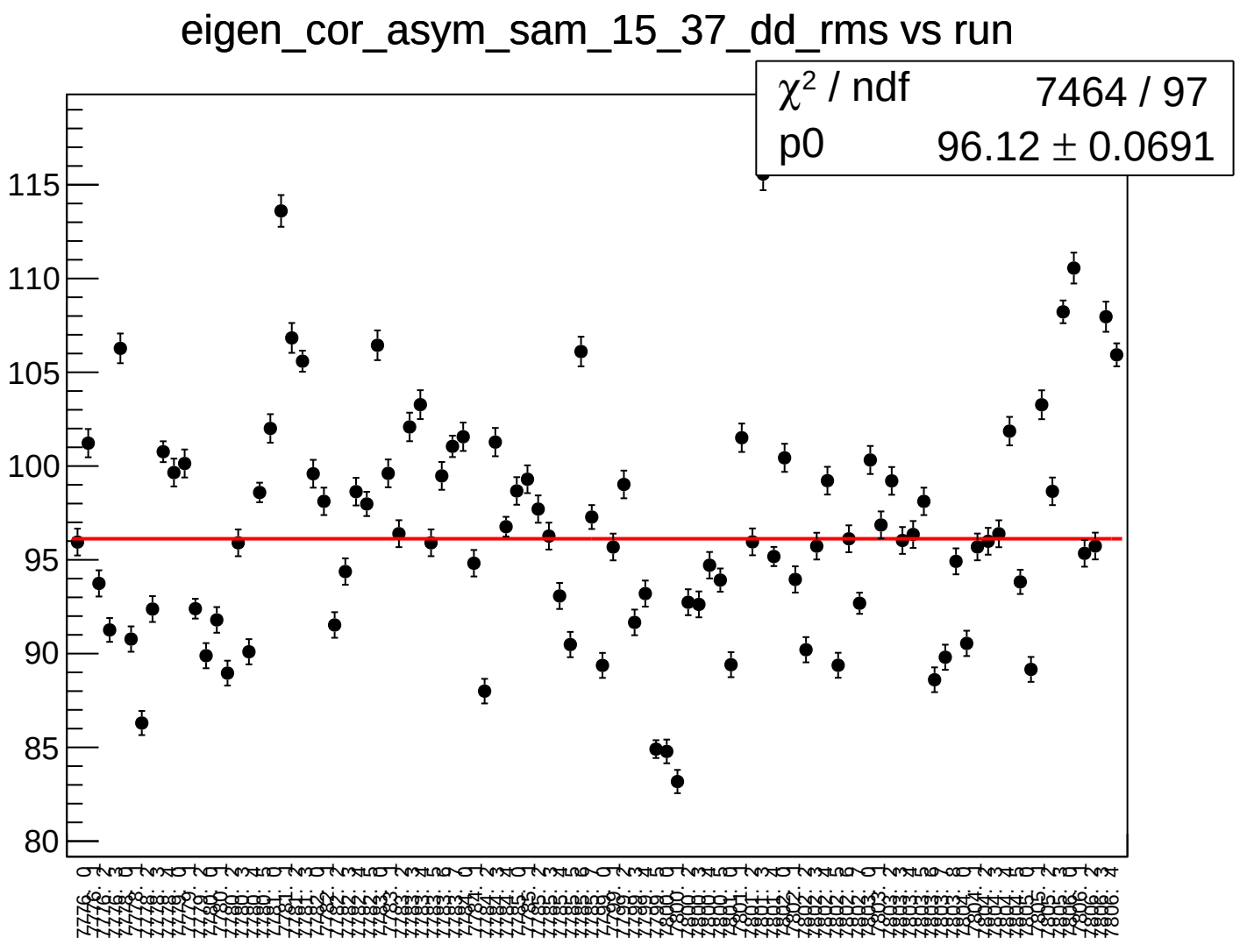

pull1D
Entries 98
Mean −0.002927
Std Dev 0.9972

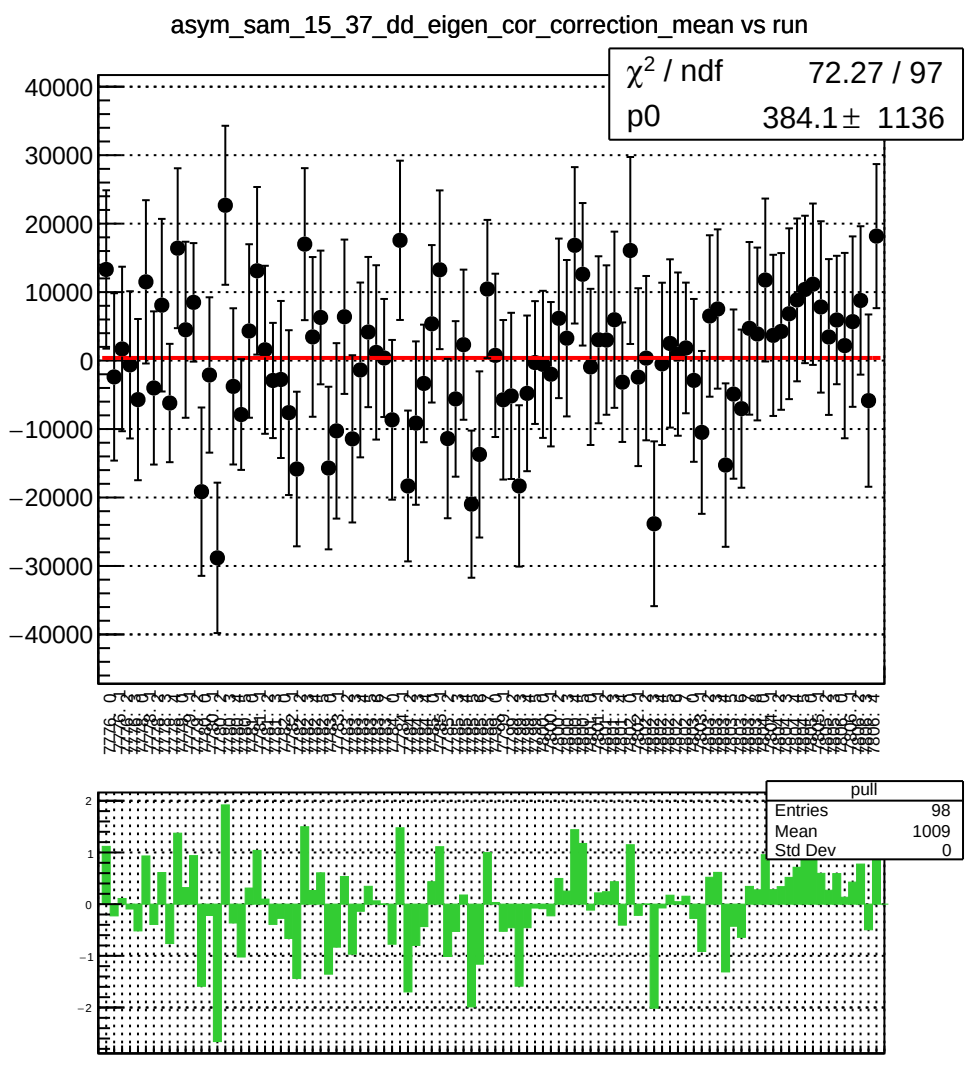

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 7464 / 97
p0 96.12 ± 0.0691
115
110
105
100
95
90
85
80

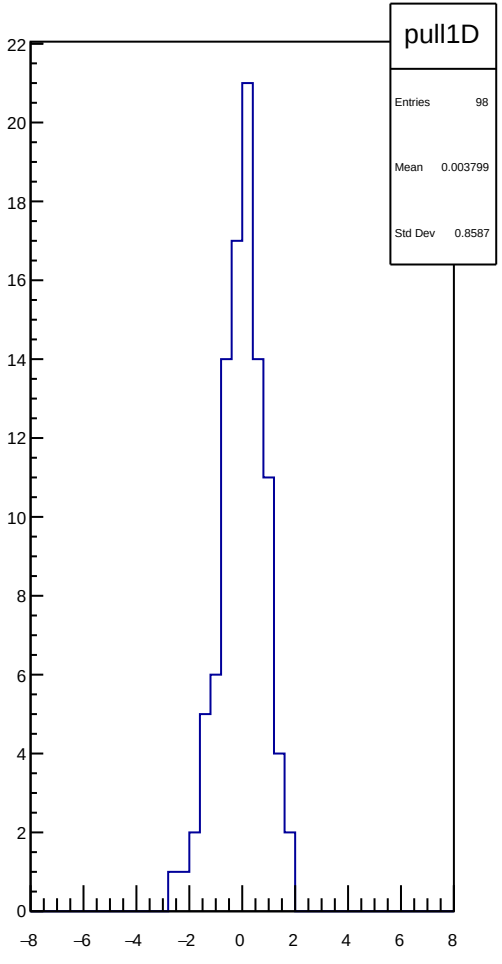

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 72.27 / 97
p0 384.1± 1136
pull
Entries 98
Mean 1009
Std Dev 0
pull1D
Entries 98
Mean 0.003799
Std Dev 0.8587

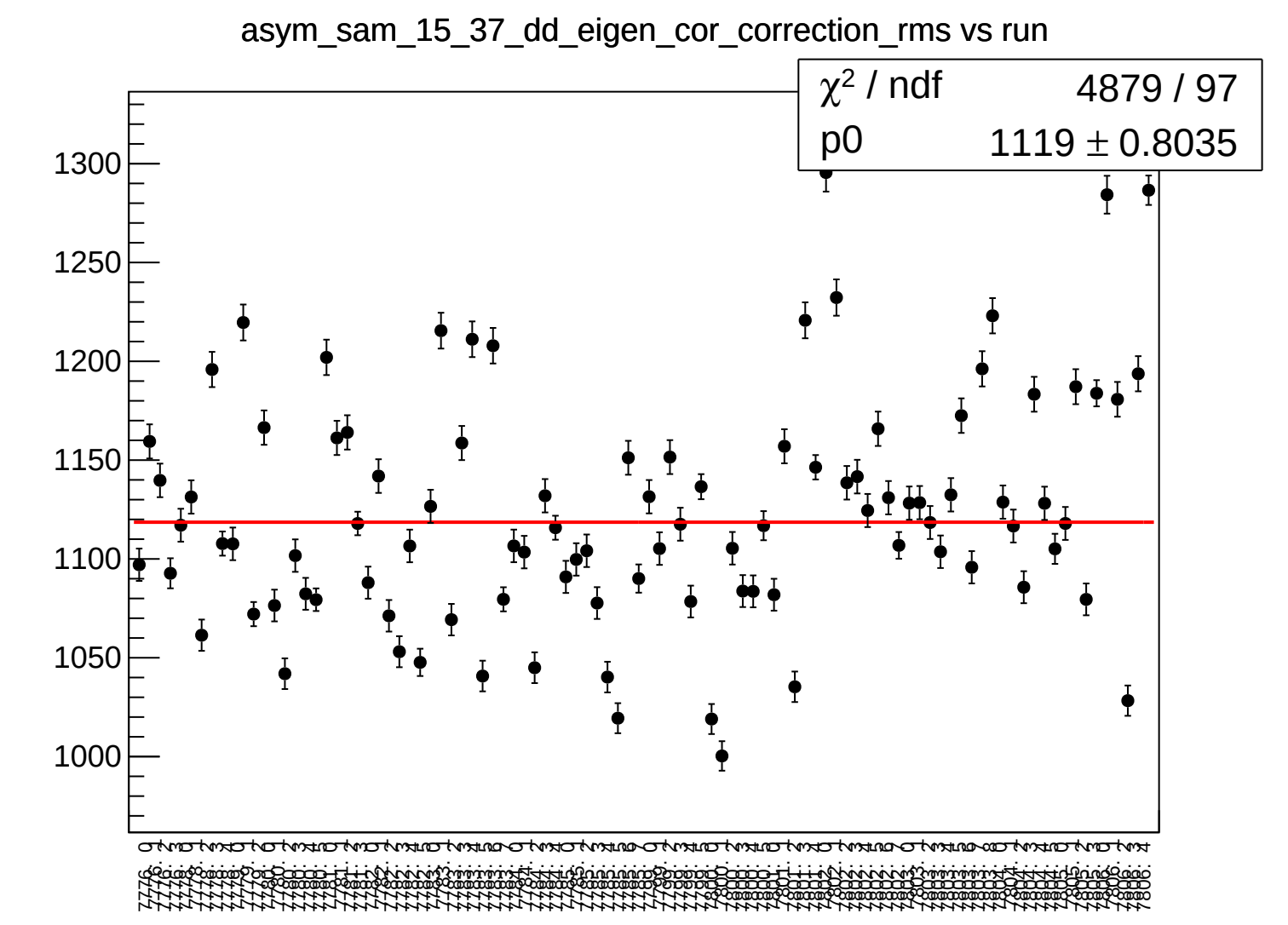

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 4879 / 97
p0 1119 ± 0.8035
1300
1250
1200
1150
1100
1050
1000

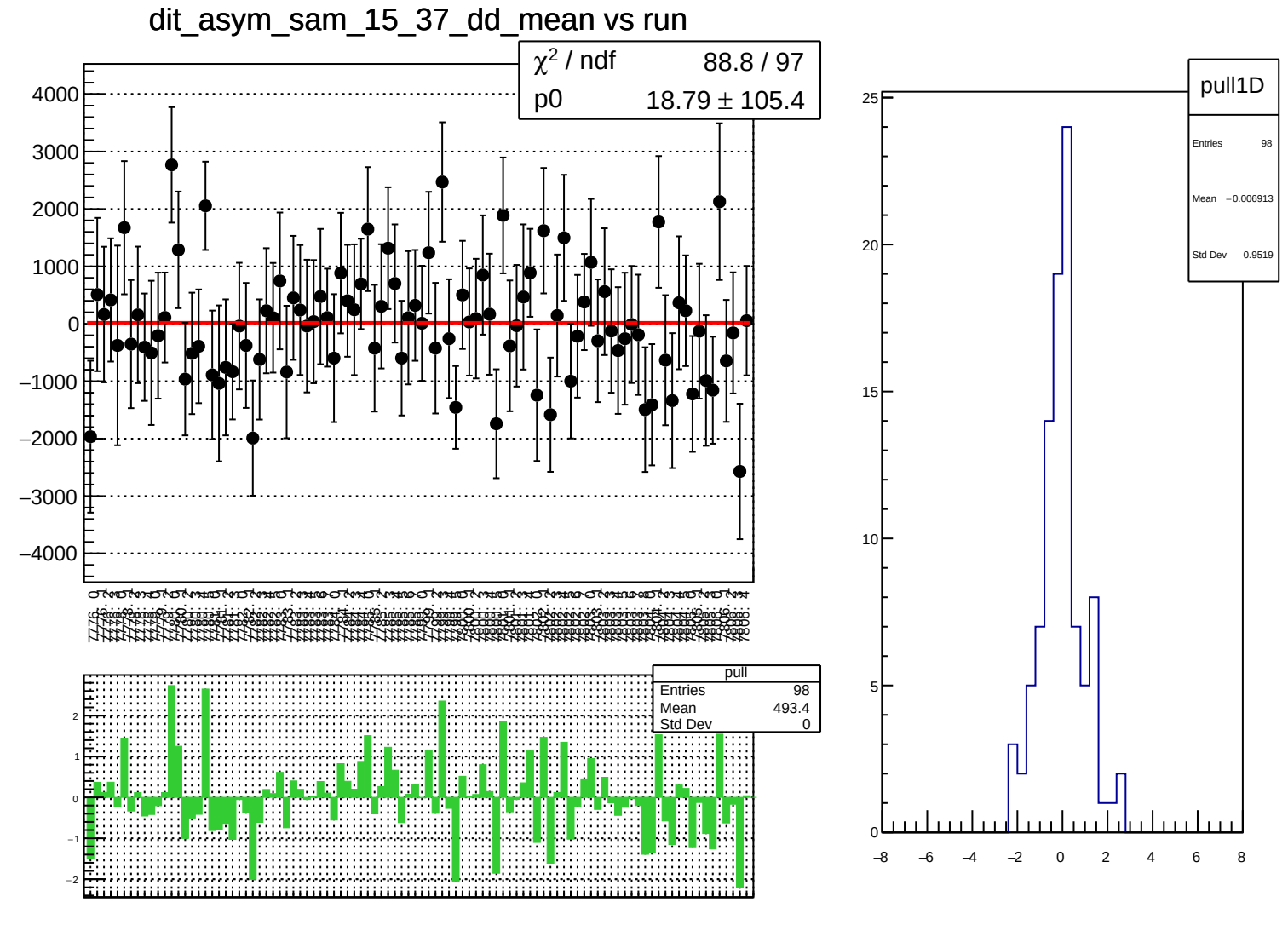

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 97.45 / 97
p0 115 ± 97.72
pull
Entries 98
Mean 1507
Std Dev 0
pull1D
Entries 98
Mean −0.002927
Std Dev 0.9972

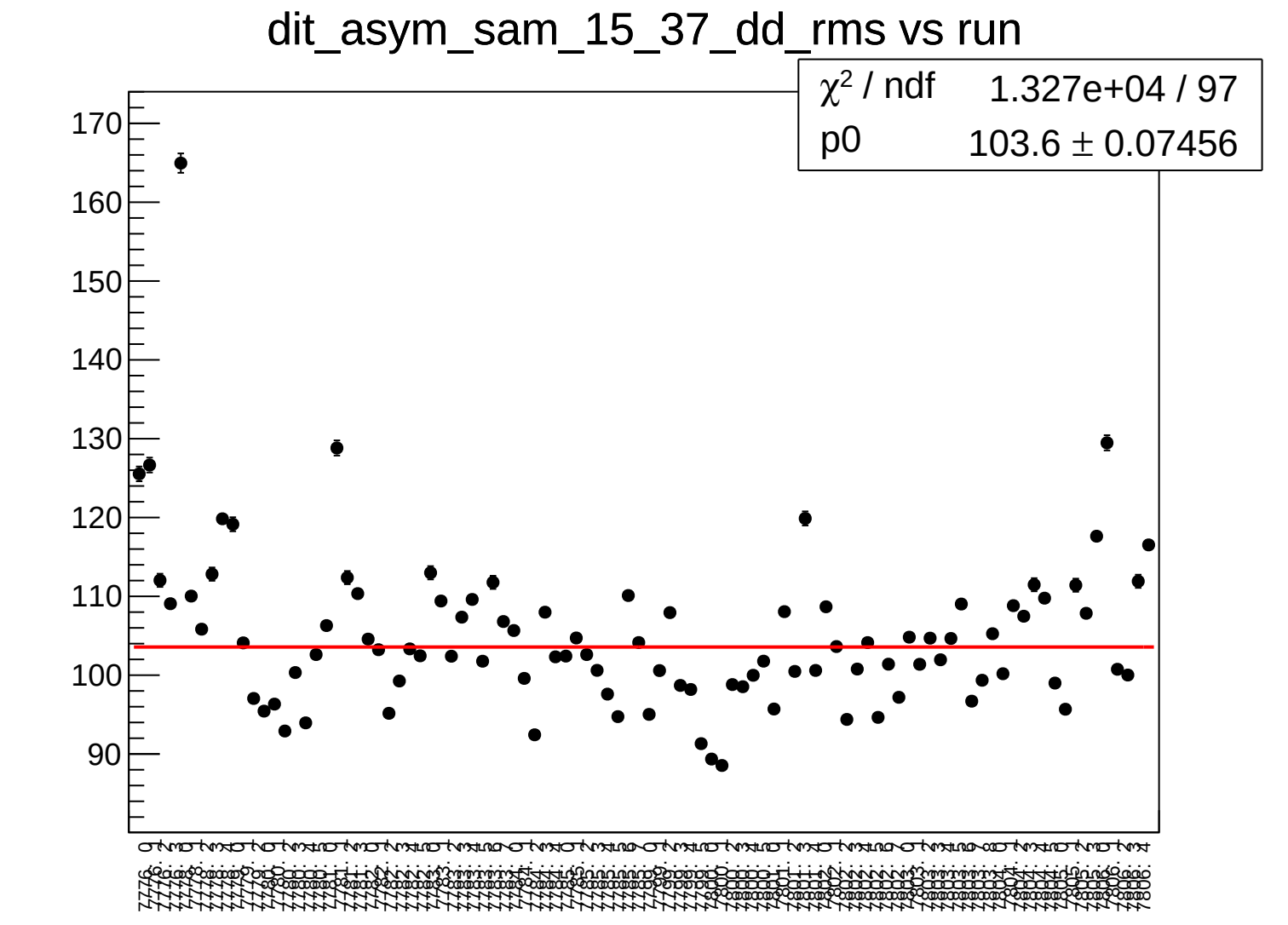

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 7464 / 97
p0 96.12 ± 0.0691
115
110
105
100
95
90
85
80

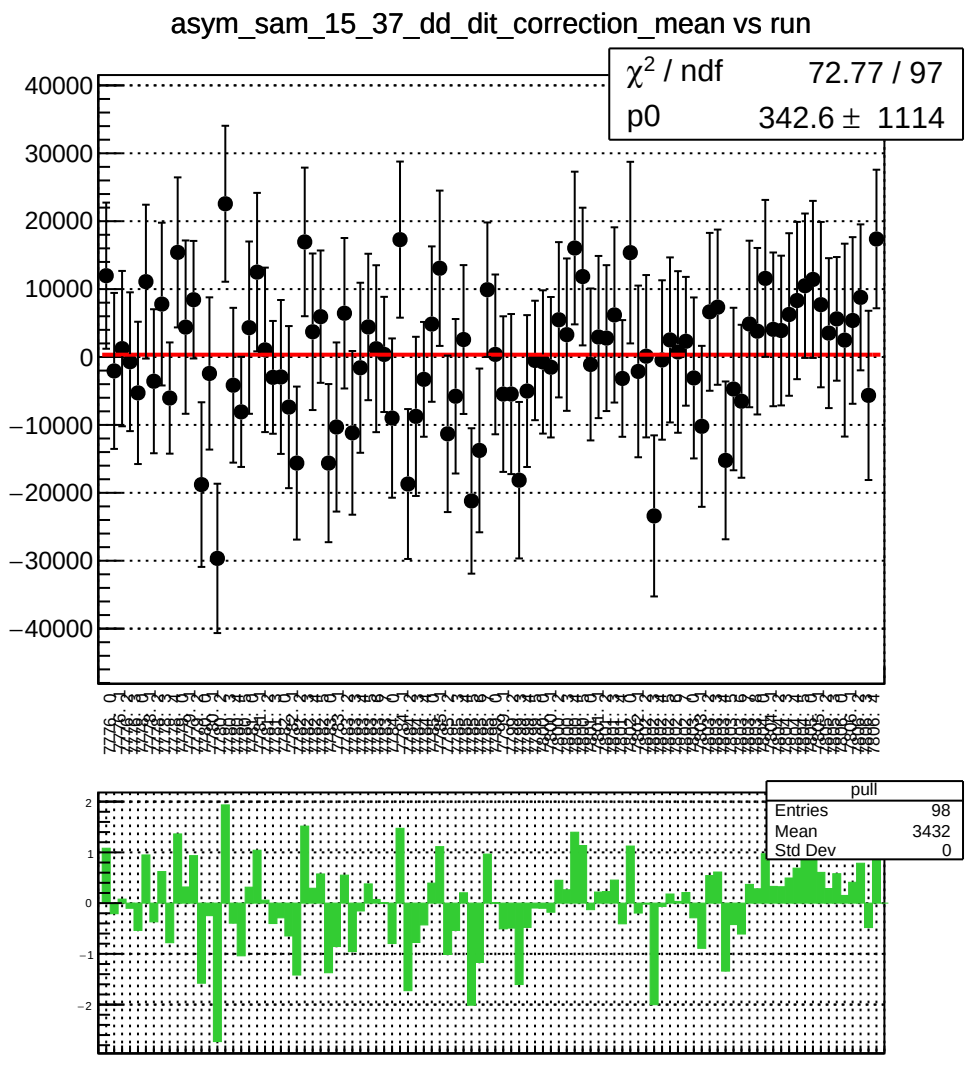

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.27 / 97
p0 384.1± 1136
pull
Entries 98
Mean 1009
Std Dev 0

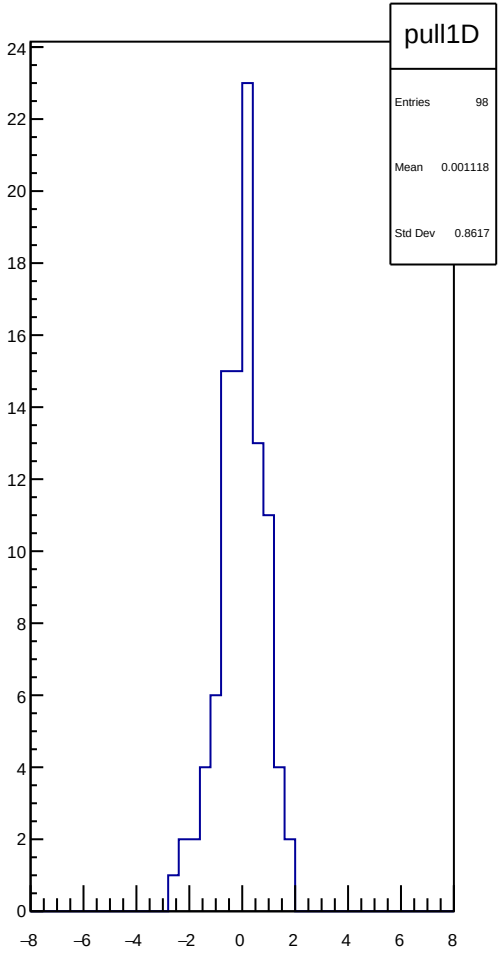

pull1D
Entries 98
Mean 0.003799
Std Dev 0.8587

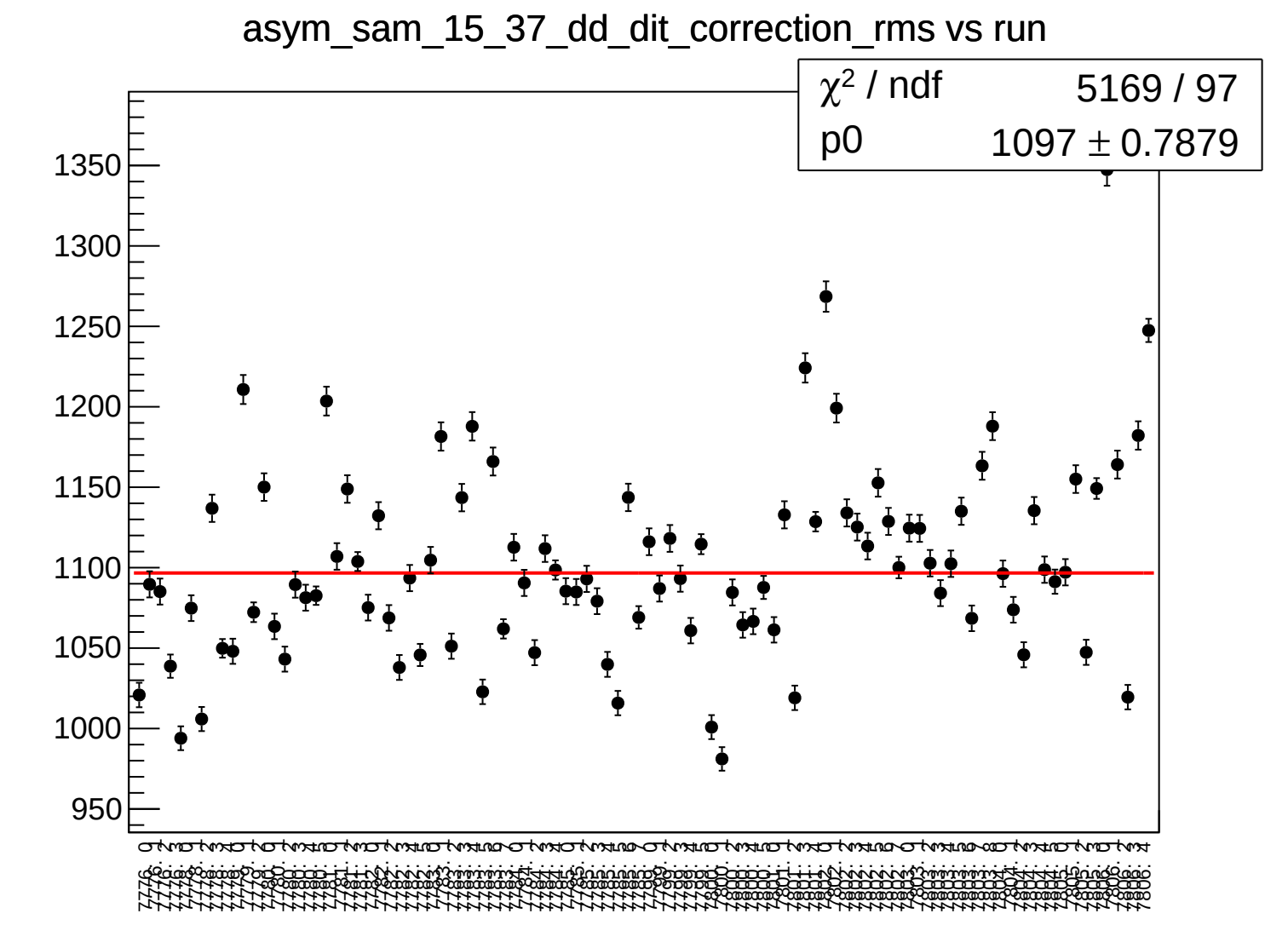

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 4879 / 97
p0 1119 ± 0.8035
1300
1250
1200
1150
1100
1050
1000

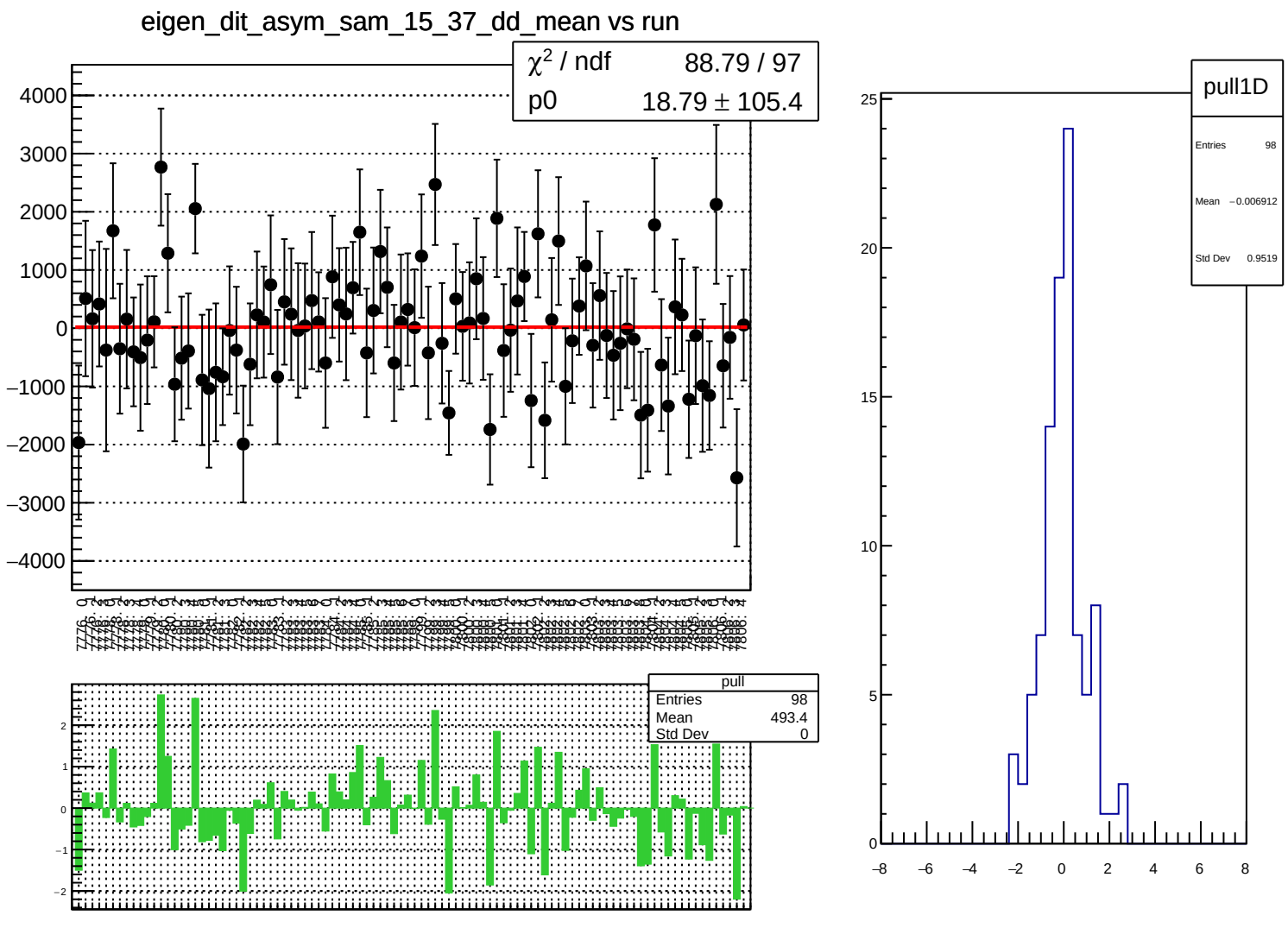

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 88.8 / 97
p0 18.79 ± 105.4
pull
Entries 98
Mean 493.4
Std Dev 0
pull1D
Entries 98
Mean −0.006913
Std Dev 0.9519

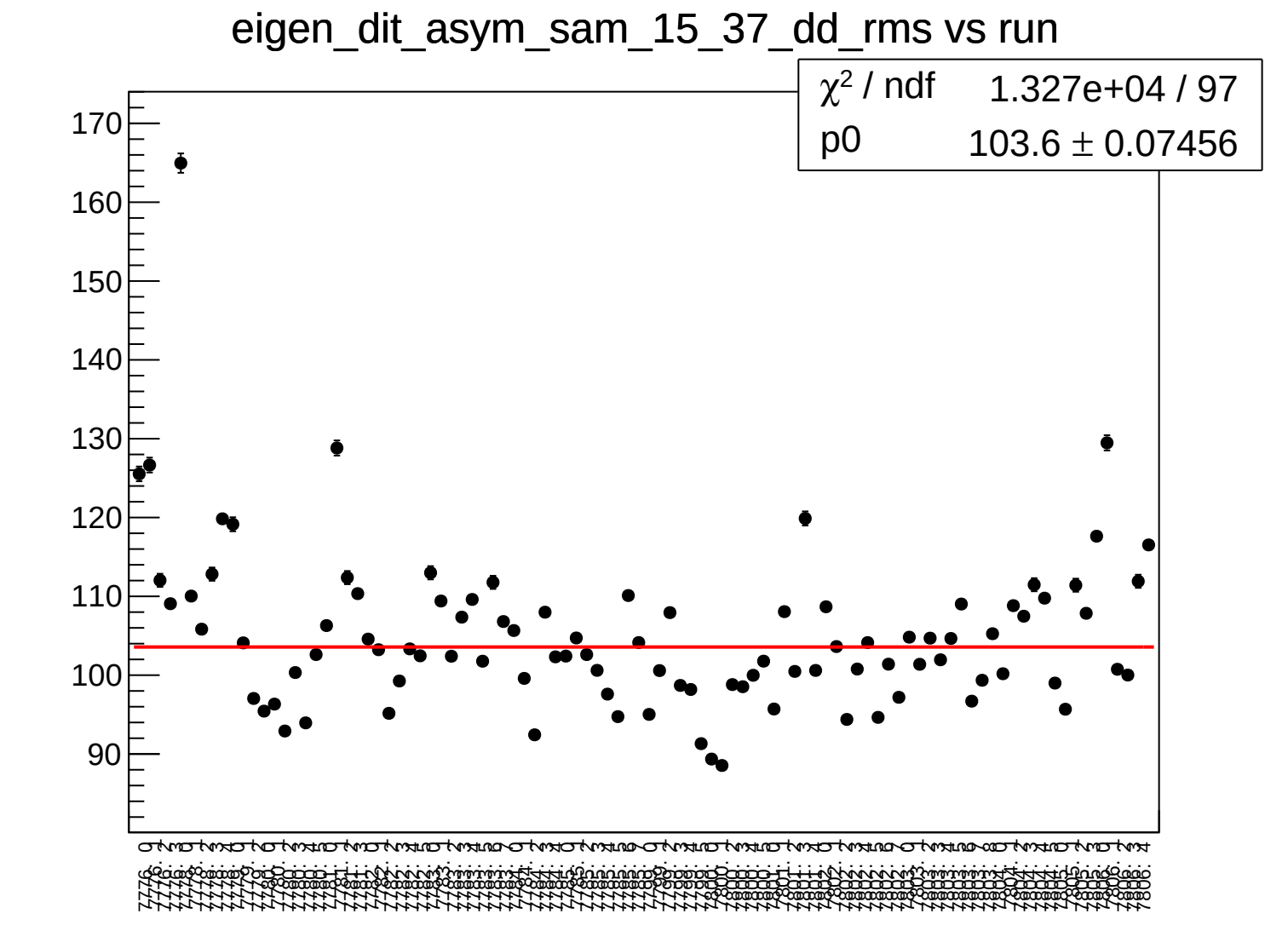

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.327e+04 / 97
p0 103.6 ± 0.07456
170
160
150
140
130
120
110
100
90

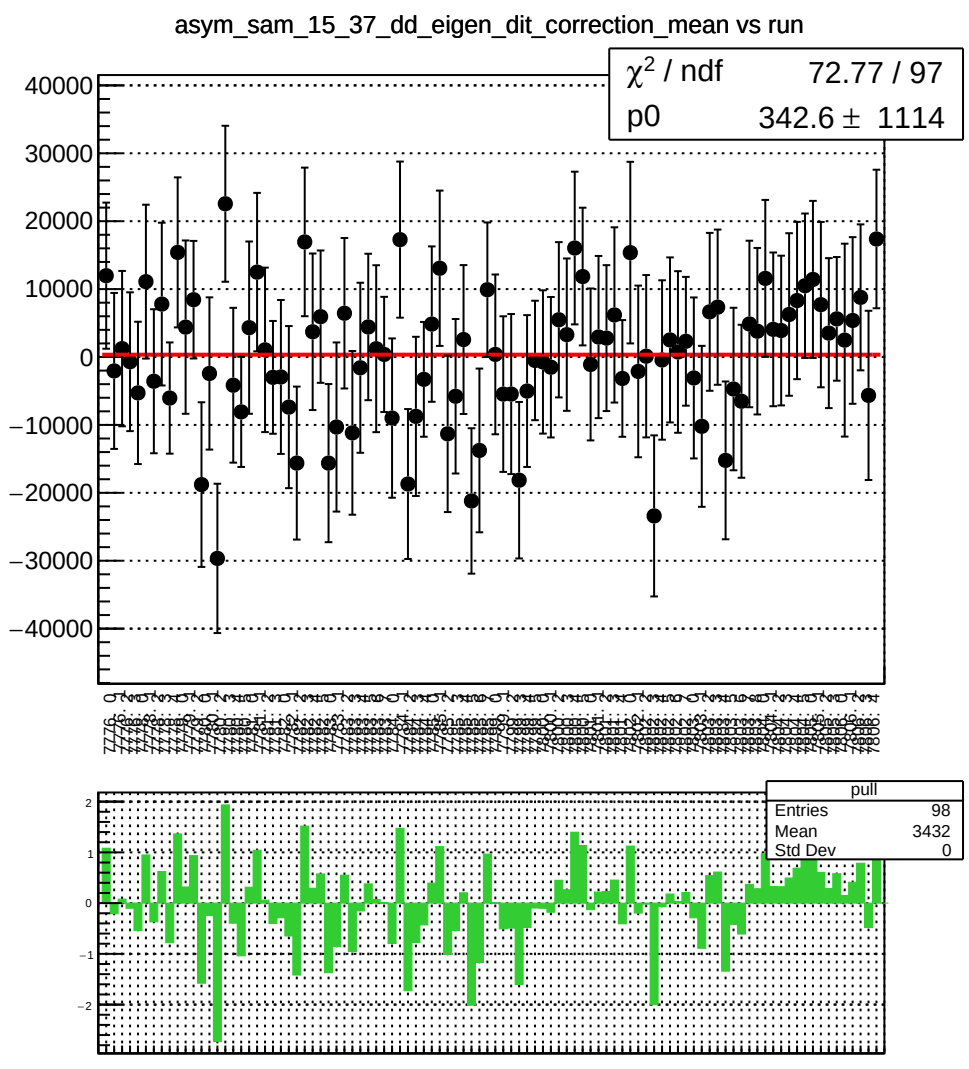

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 72.77 / 97
p0 342.6 ± 1114
pull
Entries 98
Mean 3432
Std Dev 0

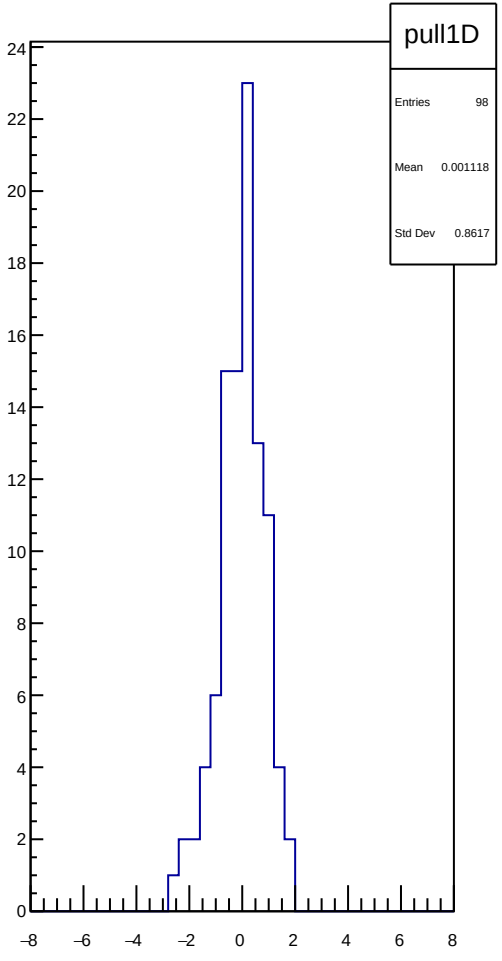

pull1D
Entries 98
Mean 0.001118
Std Dev 0.8617

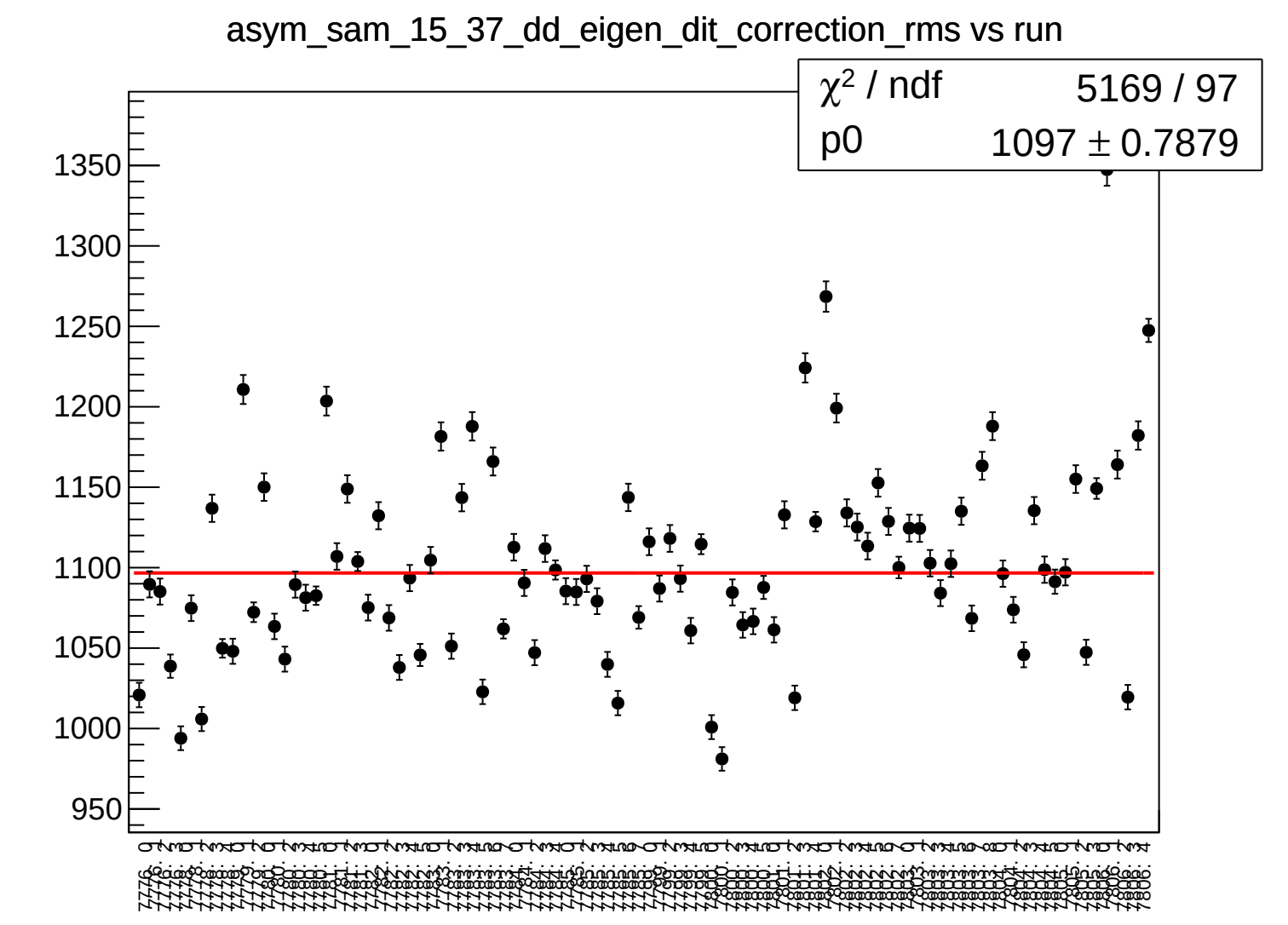

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 5169 / 97
p0 1097 ± 0.7879
1350
1300
1250
1200
1150
1100
1050
1000
950

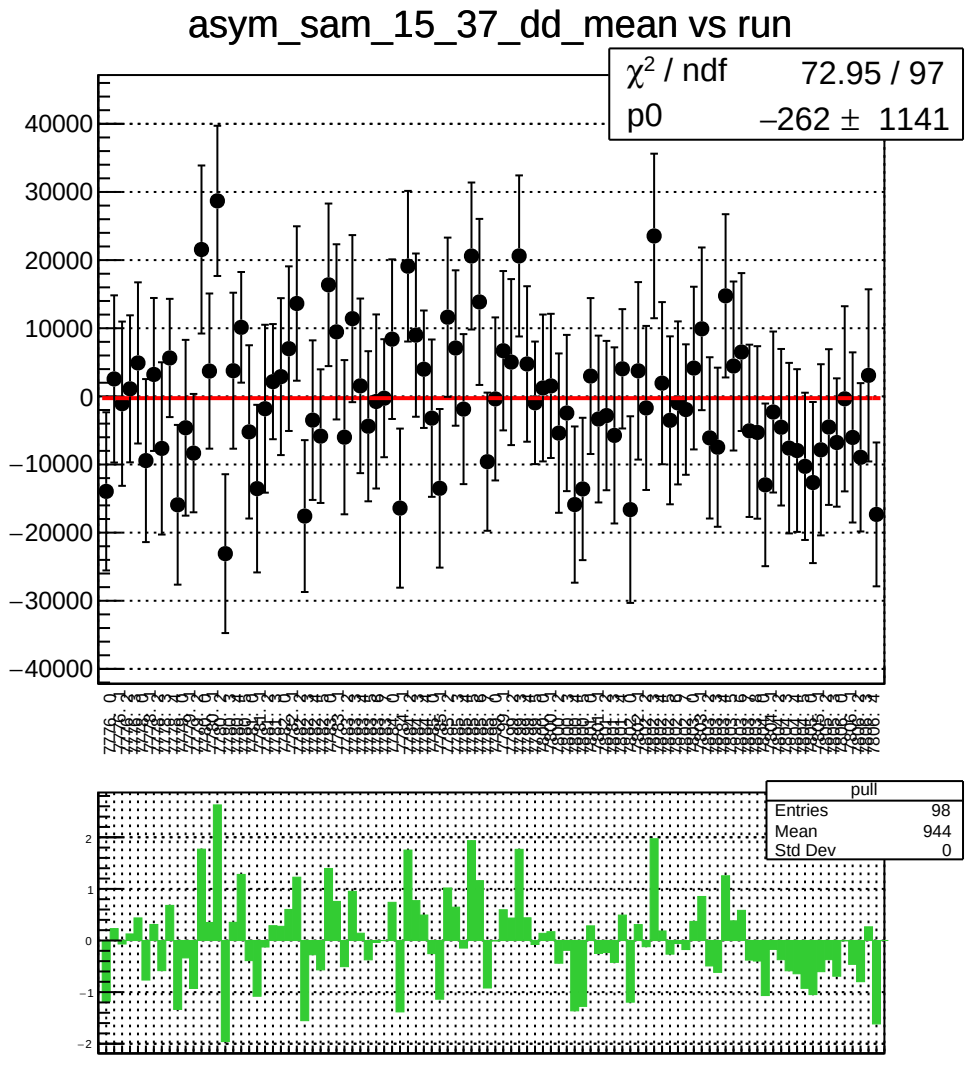

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 88.79 / 97
p0 18.79 ± 105.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 98
Mean 493.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.006912
Std Dev 0.9519
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

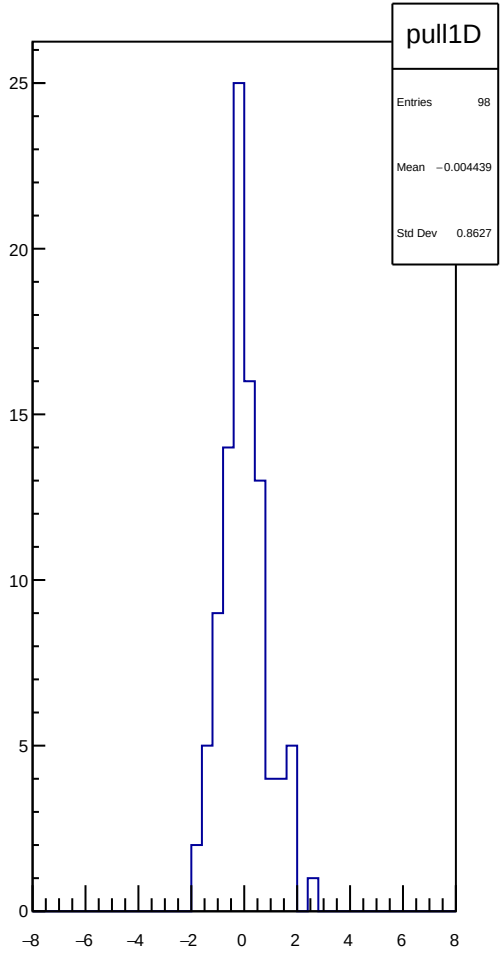

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.327e+04 / 97
p0 103.6 ± 0.07456
170
160
150
140
130
120
110
100
90

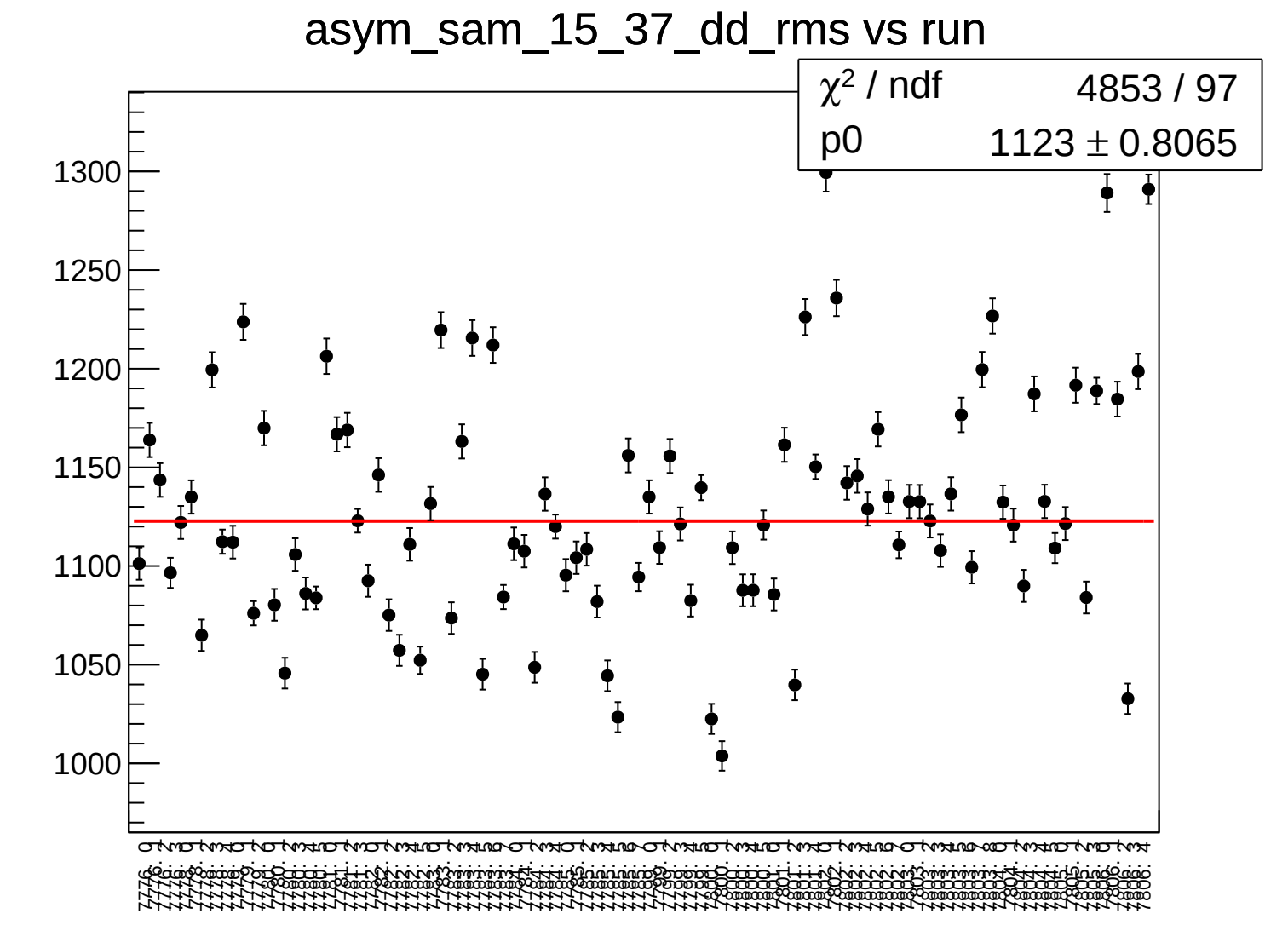

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.77 / 97
p0 342.6 ± 1114
pull
Entries 98
Mean 3432
Std Dev 0

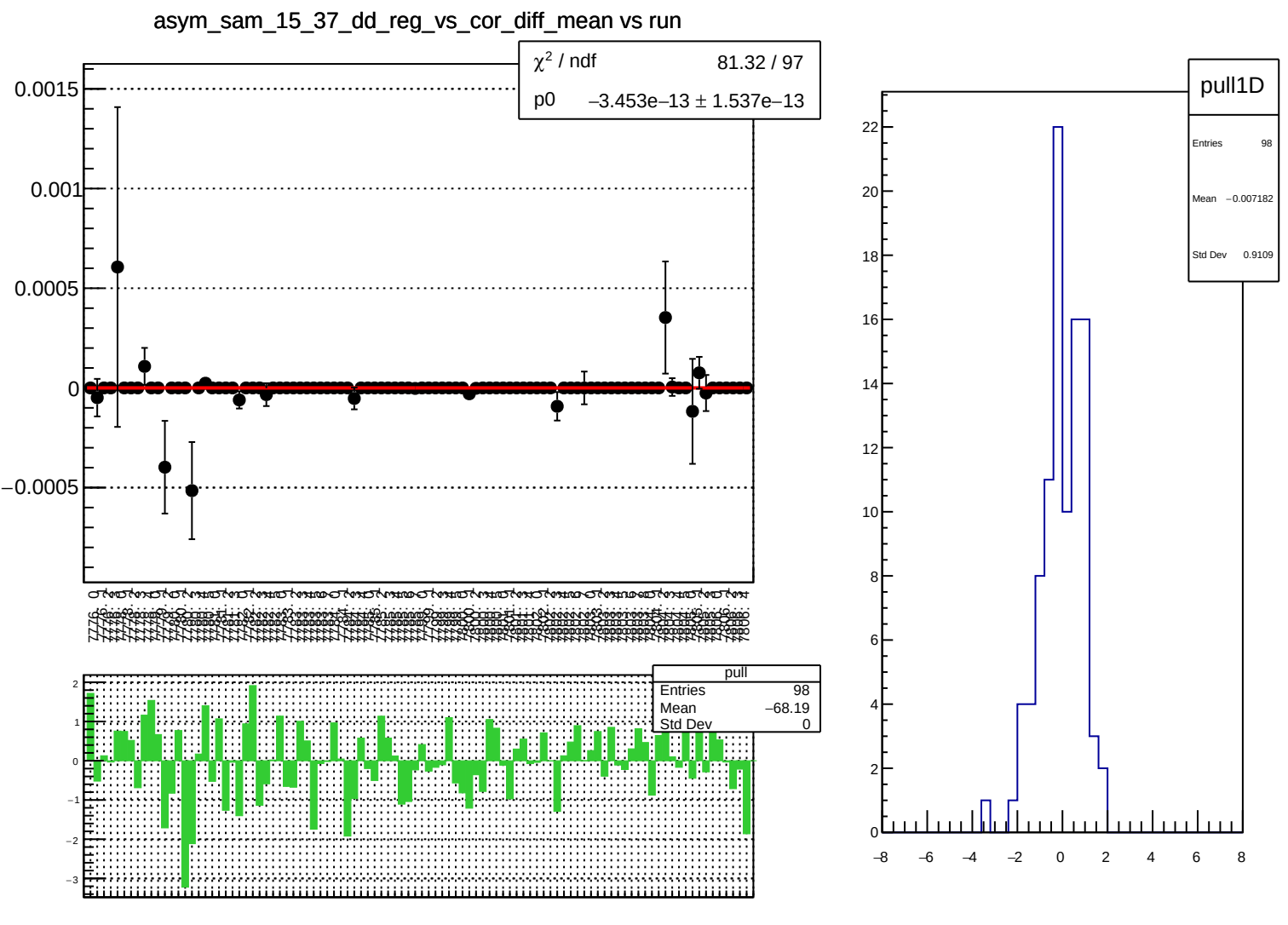

pull1D
Entries 98
Mean 0.001118
Std Dev 0.8617

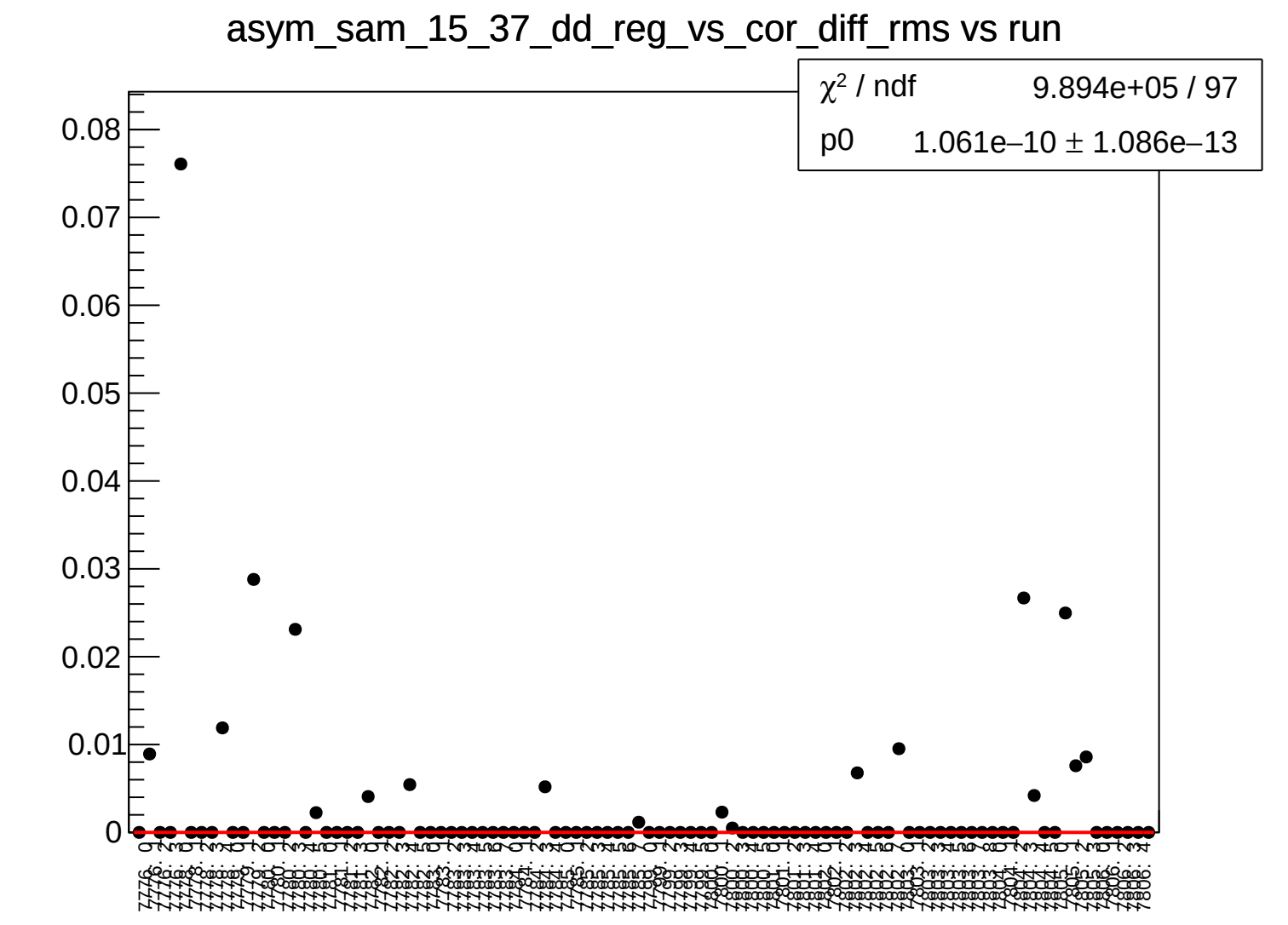

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 5169 / 97
p0 1097 ± 0.7879
1350
1300
1250
1200
1150
1100
1050
1000
950

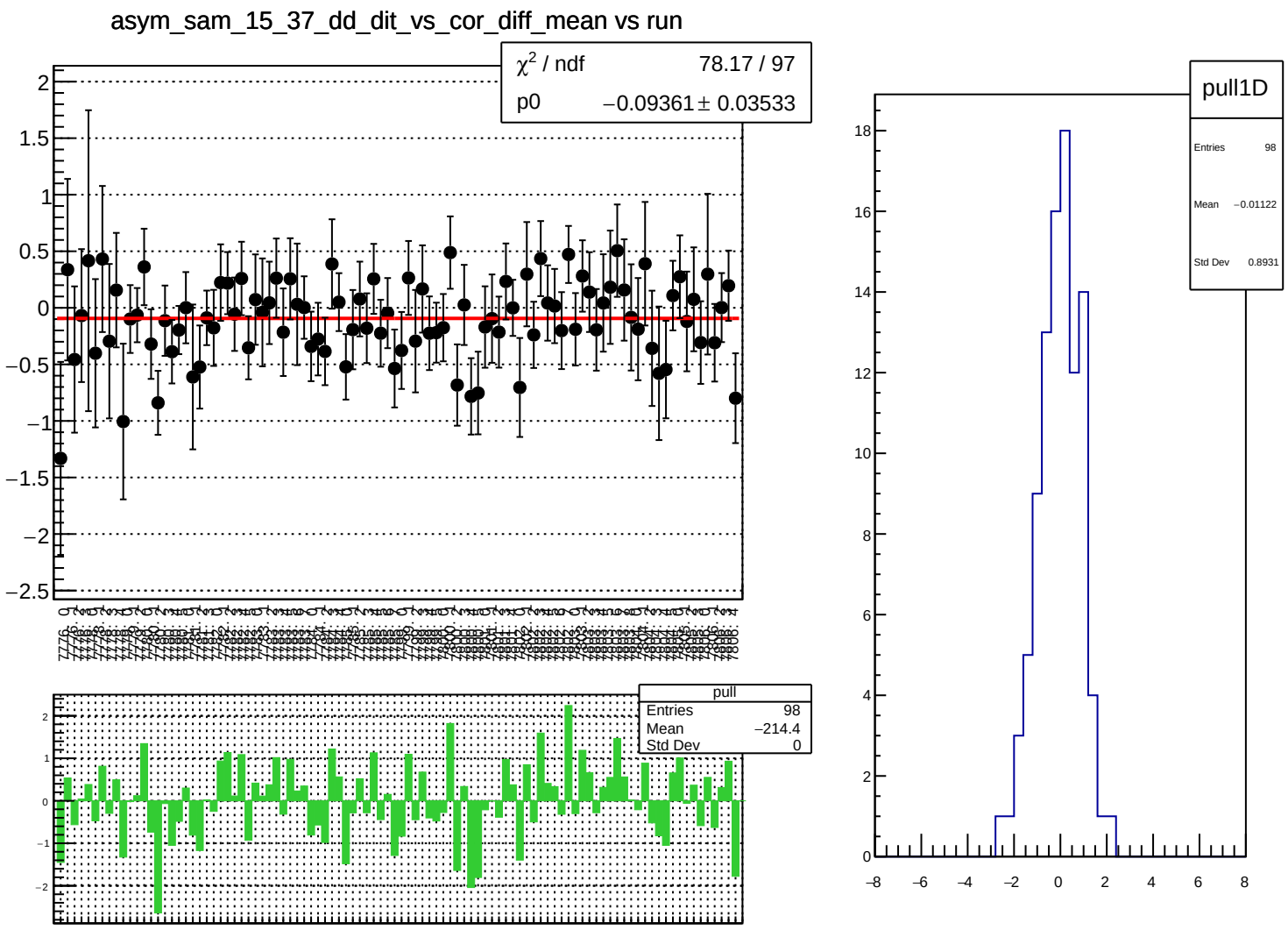

asym_sam_15_37_dd_mean vs run
χ² / ndf 72.95 / 97
p0 −262 ± 1141
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 944
Std Dev 0
2
1
0
−1
−2

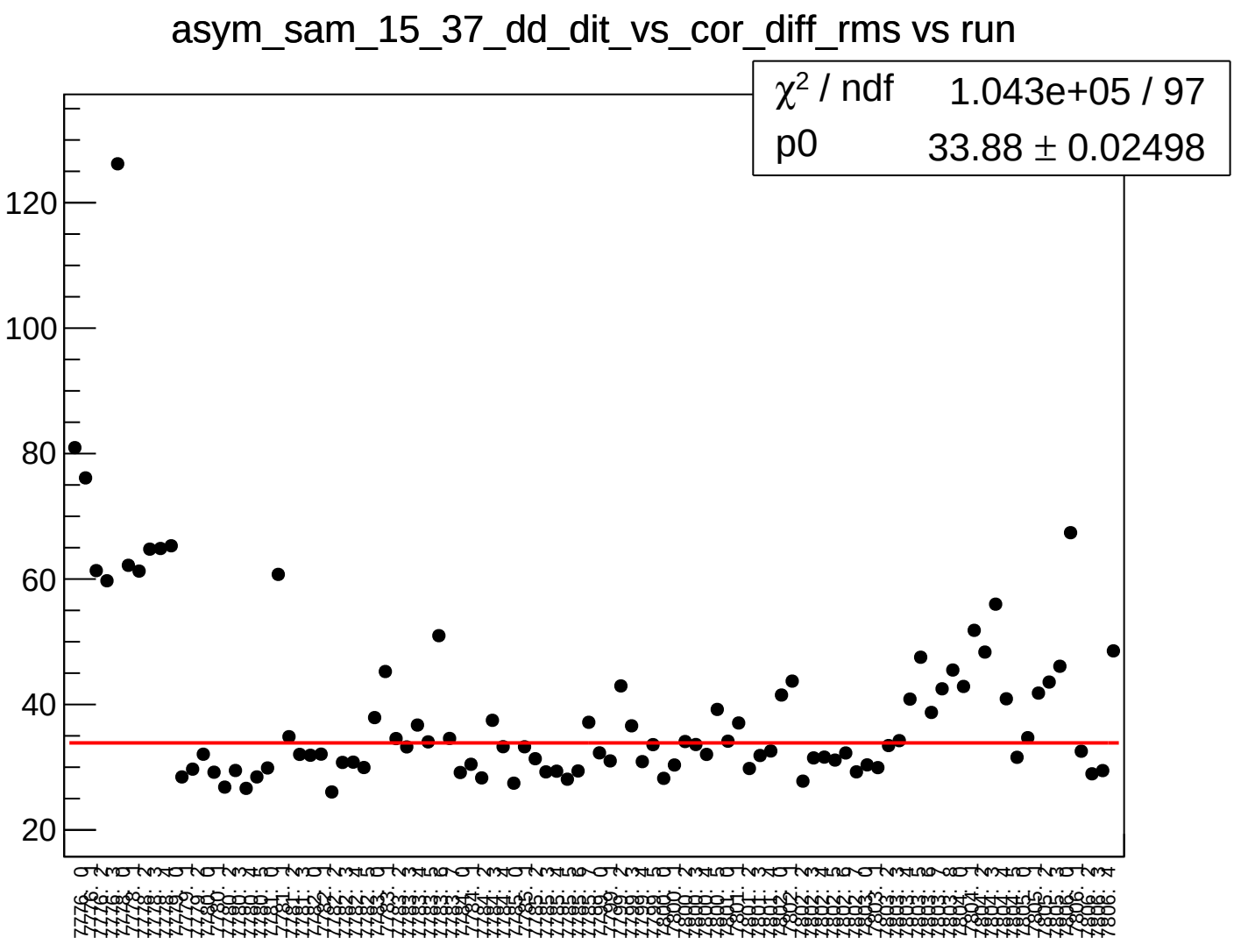

pull1D
Entries 98
Mean −0.004439
Std Dev 0.8627
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

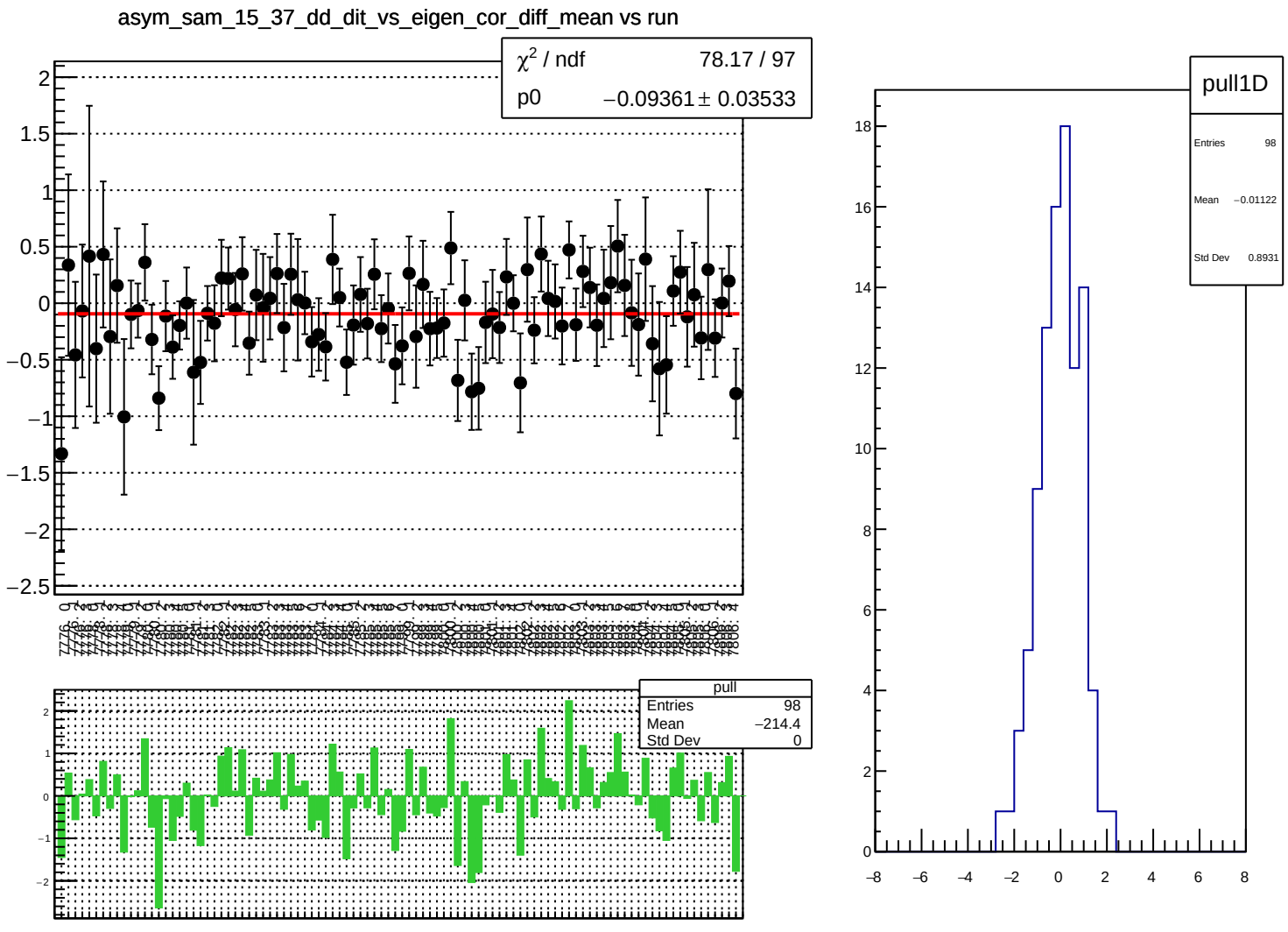

asym_sam_15_37_dd_rms vs run
χ² / ndf 4853 / 97
p0 1123 ± 0.8065
1300
1250
1200
1150
1100
1050
1000

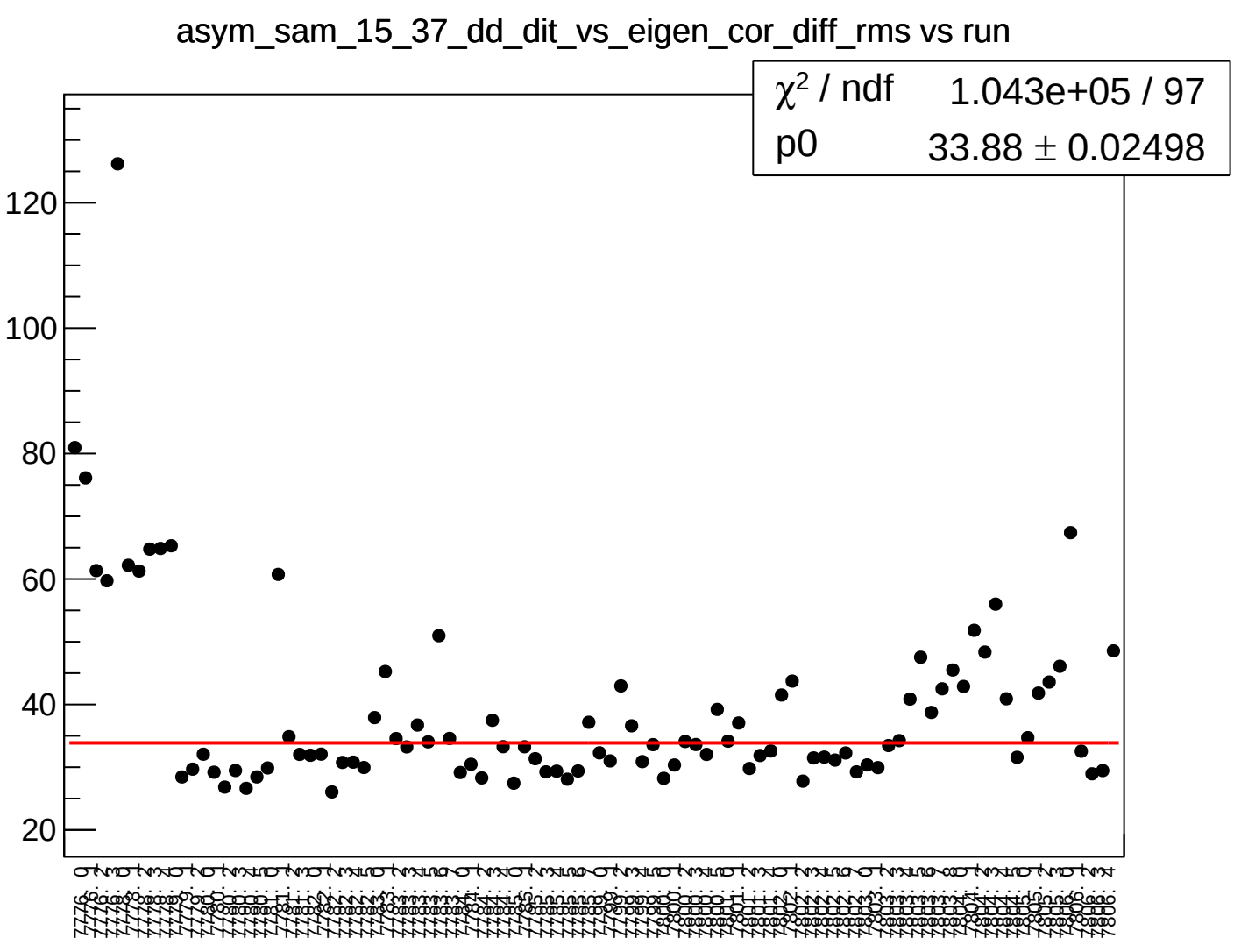

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.32 / 97
p0 −3.453e−13 ± 1.537e−13
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 98
Mean −68.19
Std Dev 0
pull1D
Entries 98
Mean −0.007182
Std Dev 0.9109

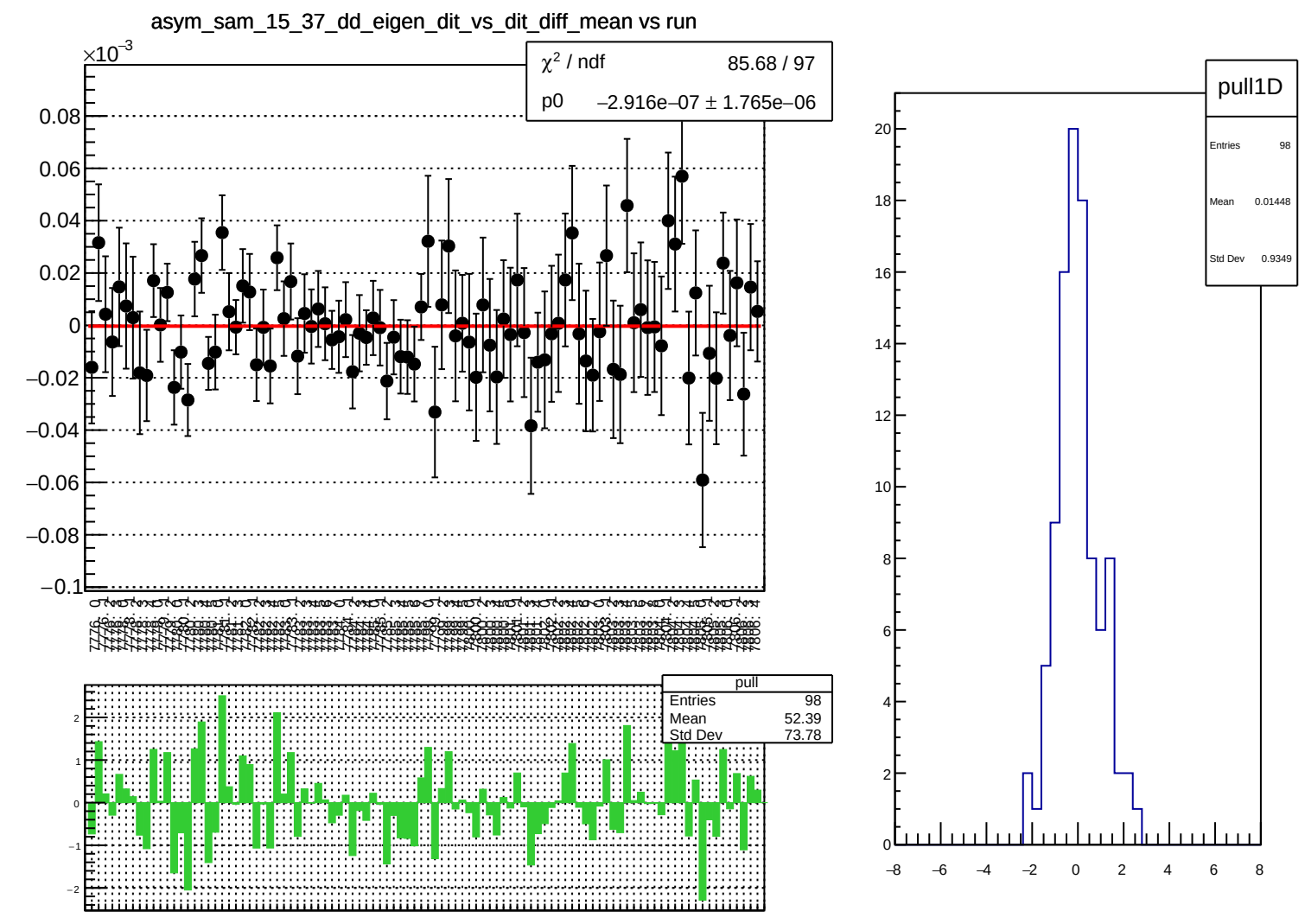

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.894e+05 / 97
p0 1.061e−10 ± 1.086e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

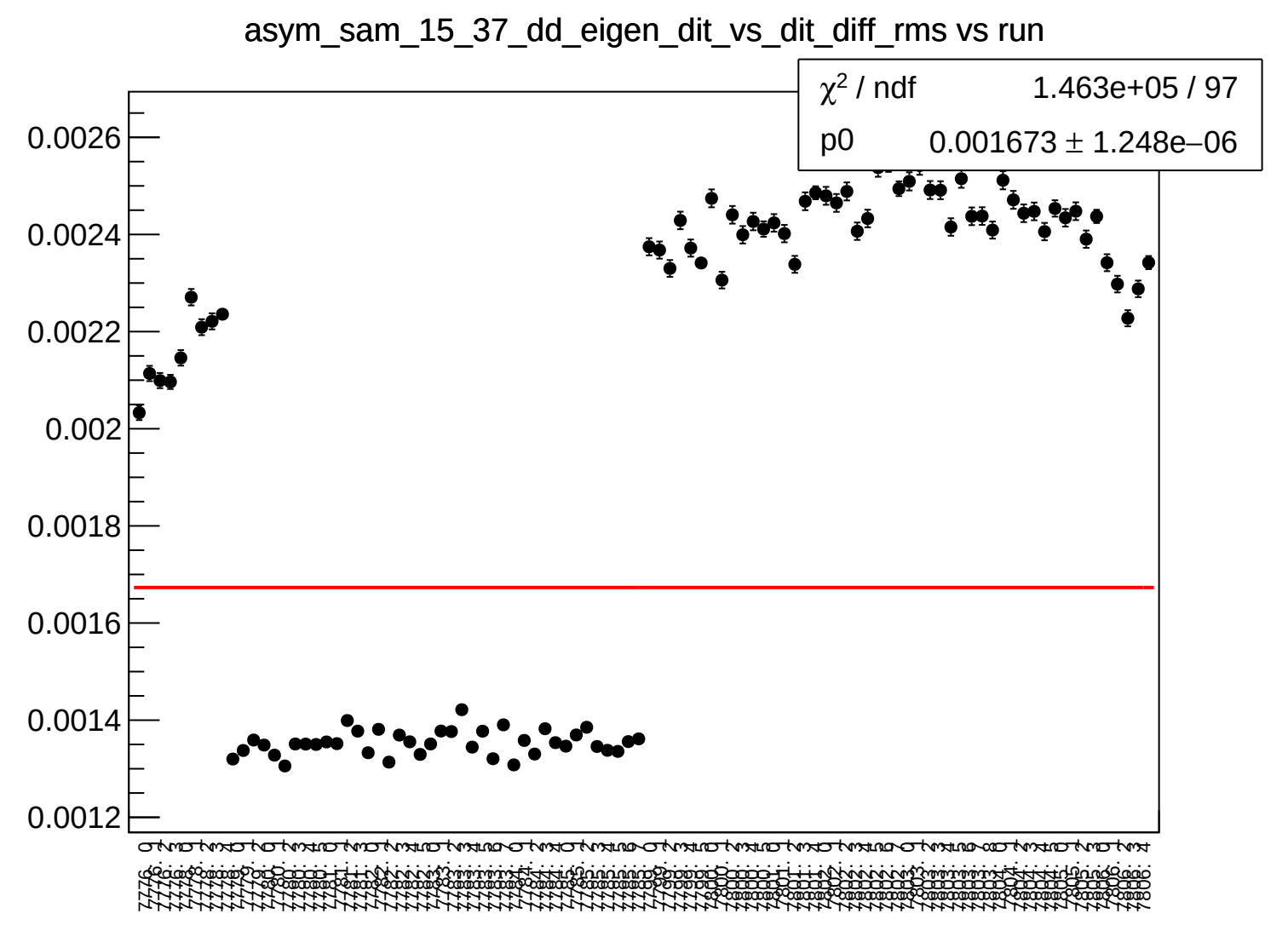

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.17 / 97
p0 −0.09361 ± 0.03533
pull
Entries 98
Mean −214.4
Std Dev 0
pull1D
Entries 98
Mean −0.01122
Std Dev 0.8931

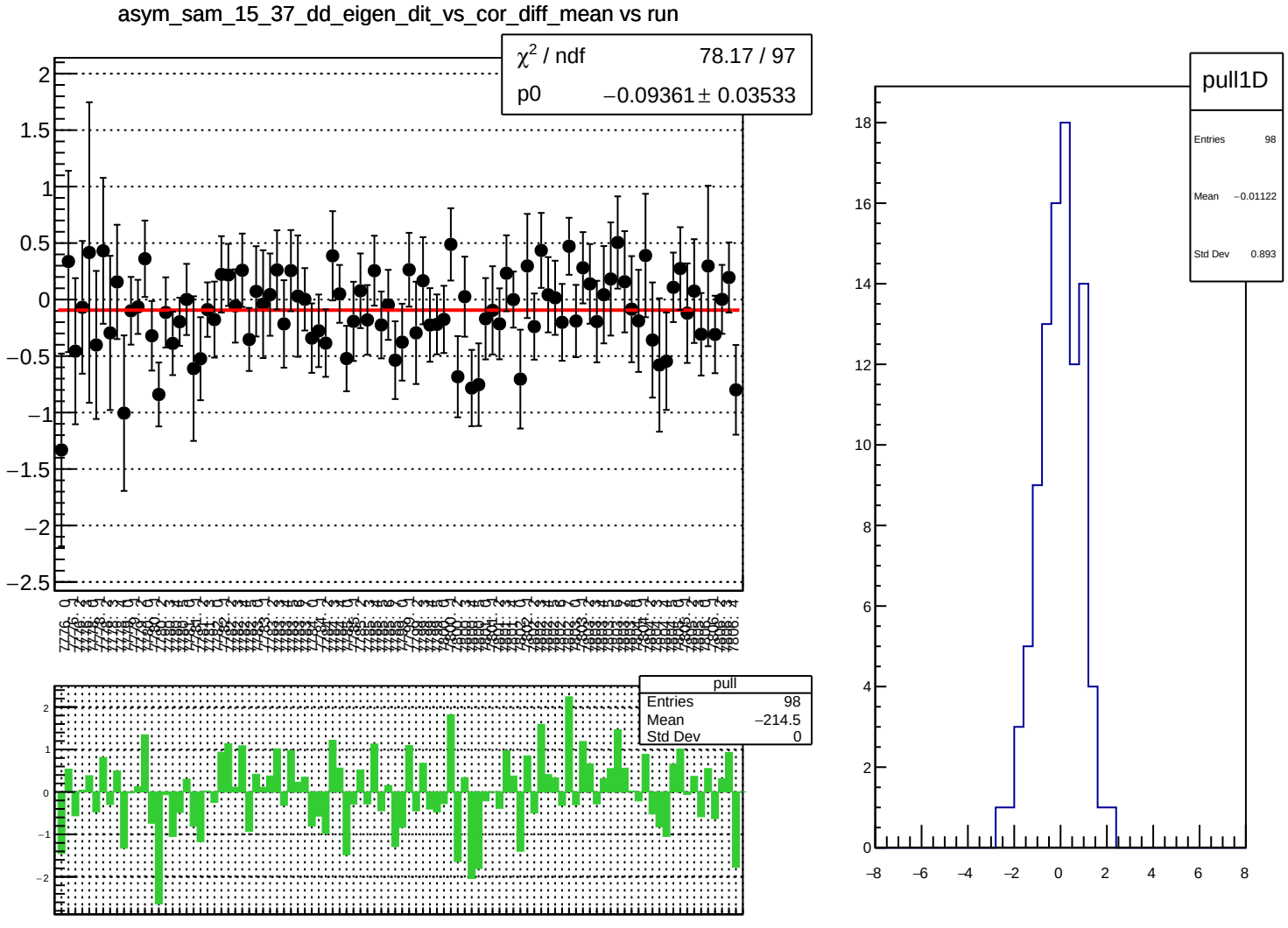

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.043e+05 / 97
p0 33.88 ± 0.02498
120
100
80
60
40
20

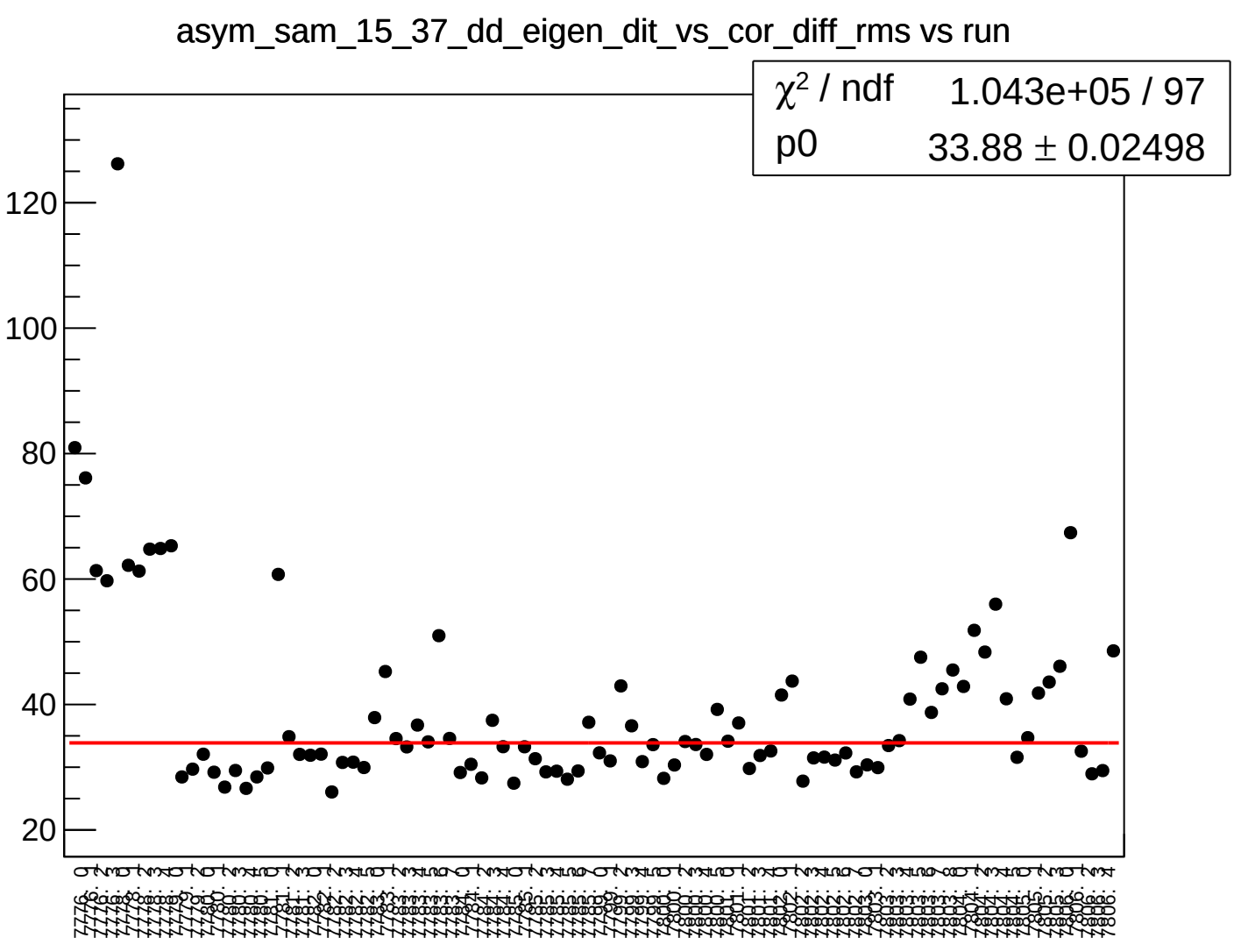

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.17 / 97
p0 −0.09361 ± 0.03533
pull
Entries 98
Mean −214.4
Std Dev 0
pull1D
Entries 98
Mean −0.01122
Std Dev 0.8931

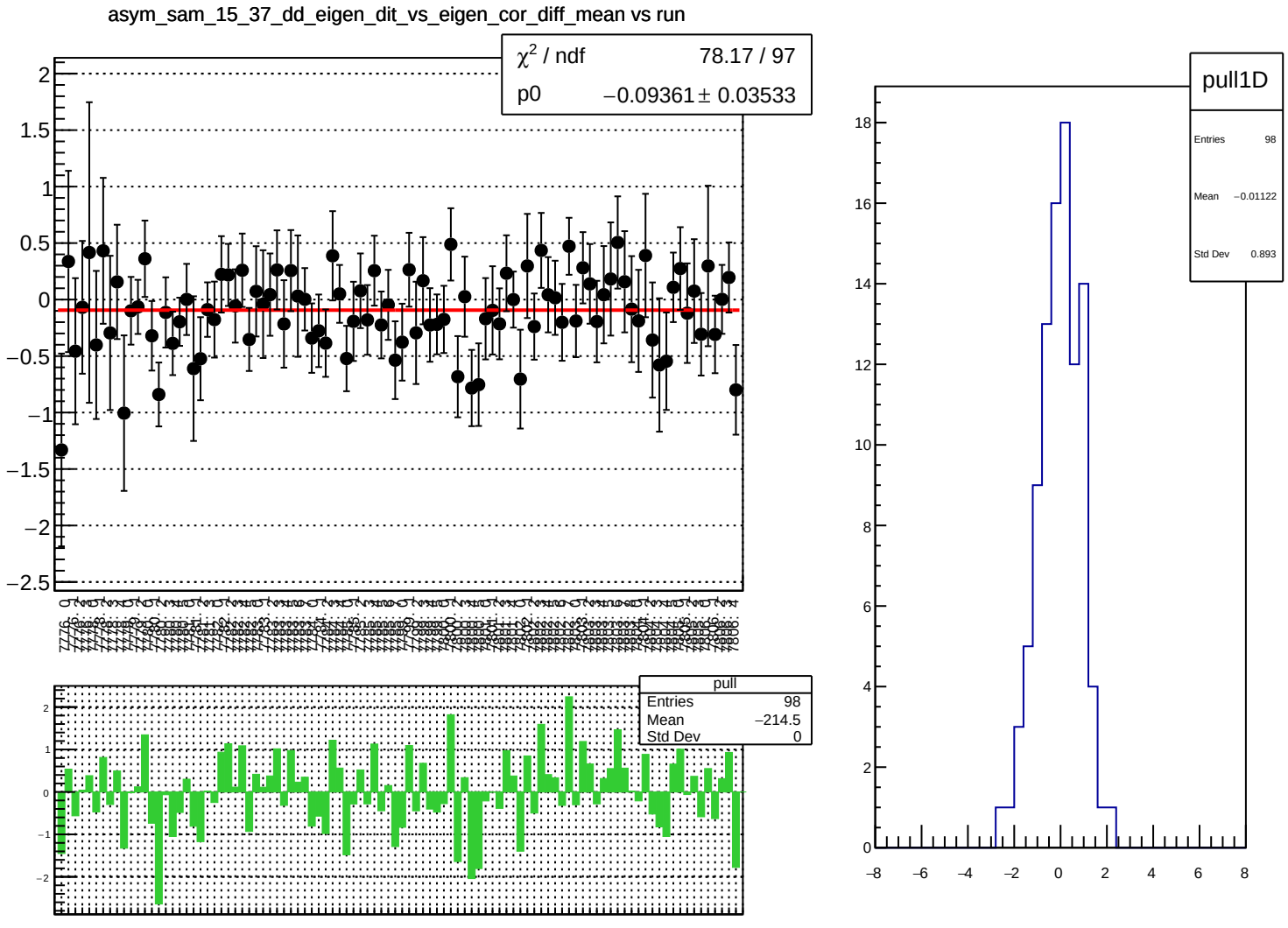

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.043e+05 / 97
p0 33.88 ± 0.02498
120
100
80
60
40
20

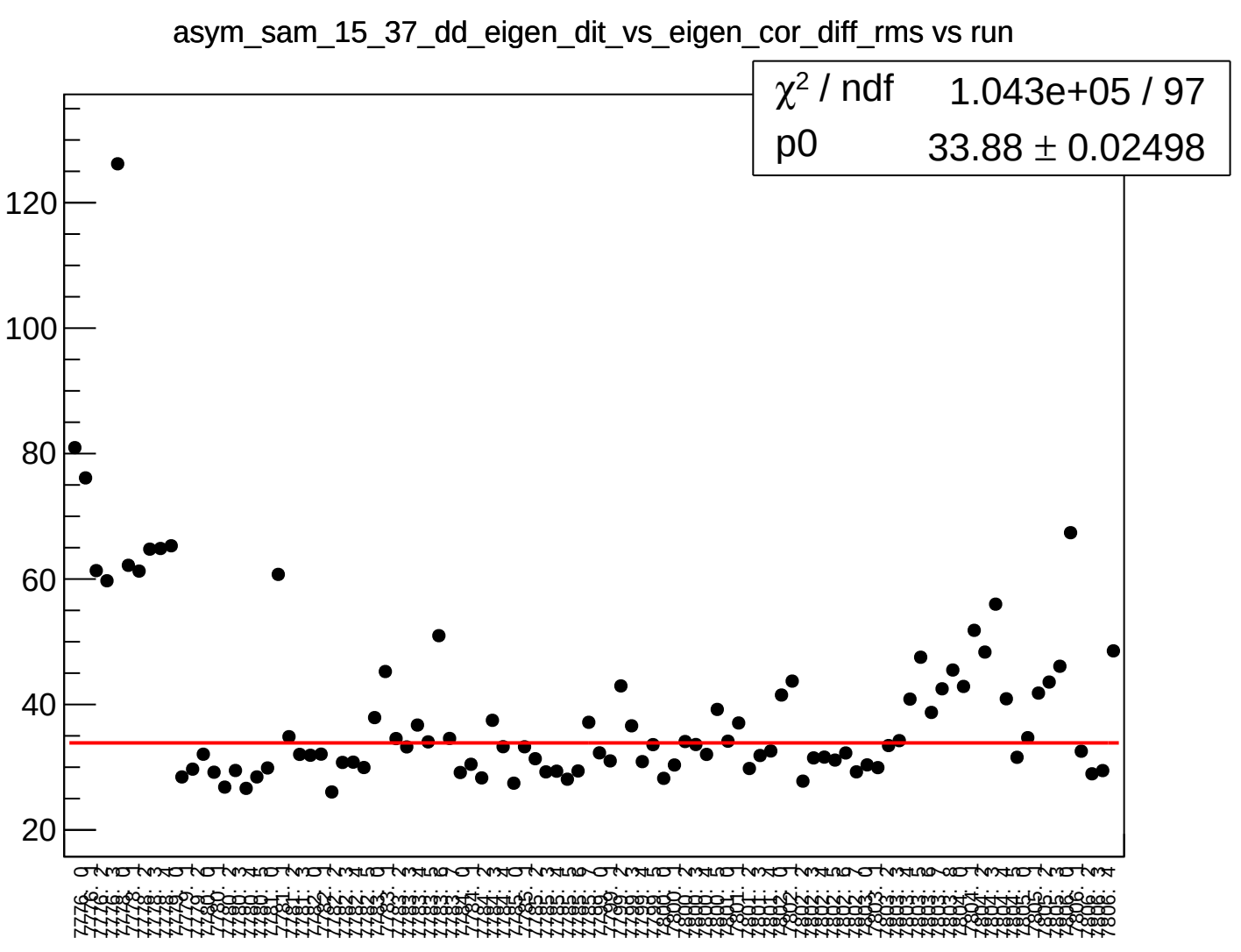

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 85.68 / 97
p0 −2.916e−07 ± 1.765e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 98
Mean 52.39
Std Dev 73.78
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01448
Std Dev 0.9349
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

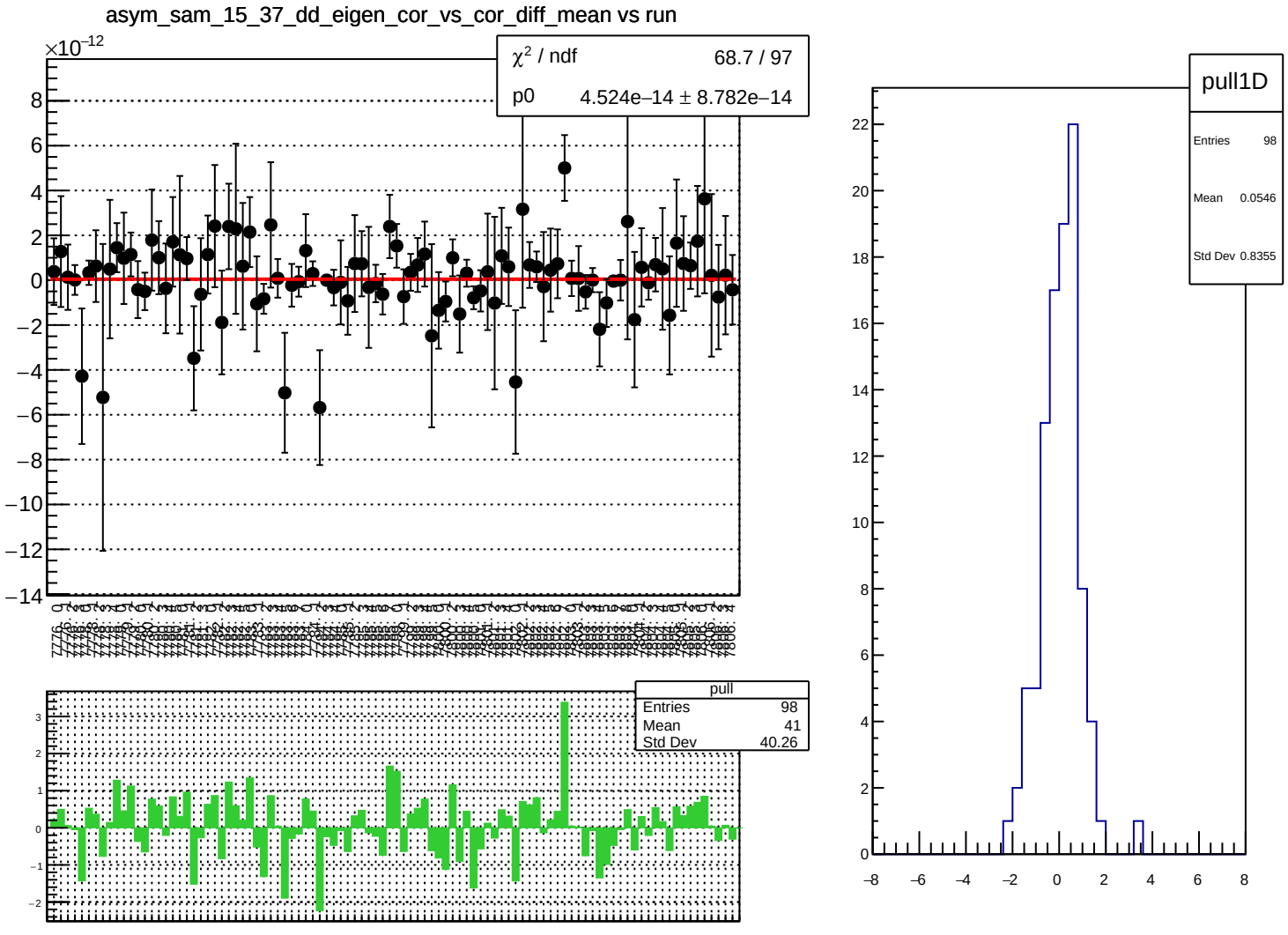

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.463e+05 / 97
p0 0.001673 ± 1.248e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

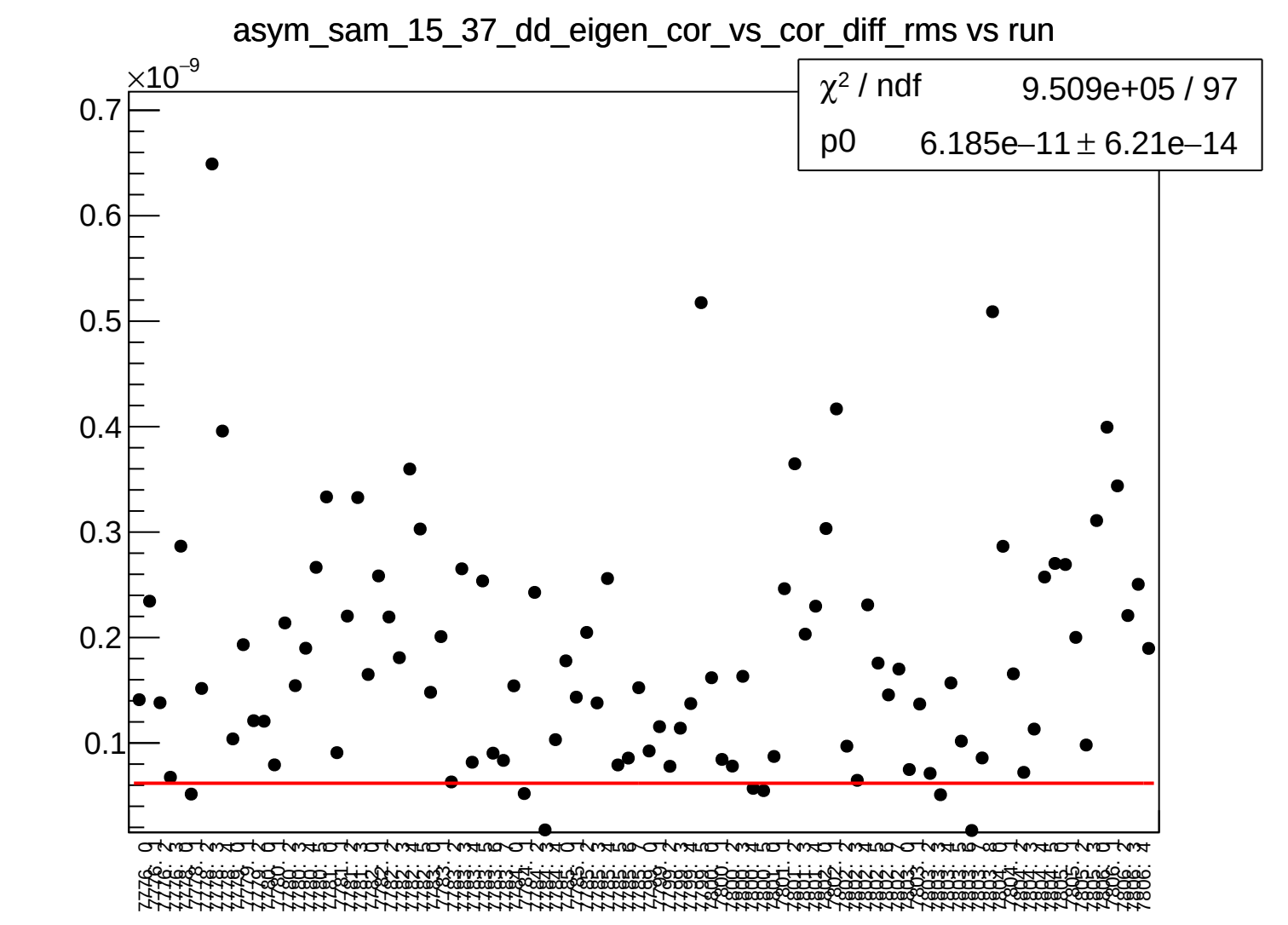

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.17 / 97
p0 −0.09361 ± 0.03533
pull
Entries 98
Mean −214.5
Std Dev 0
pull1D
Entries 98
Mean −0.01122
Std Dev 0.893

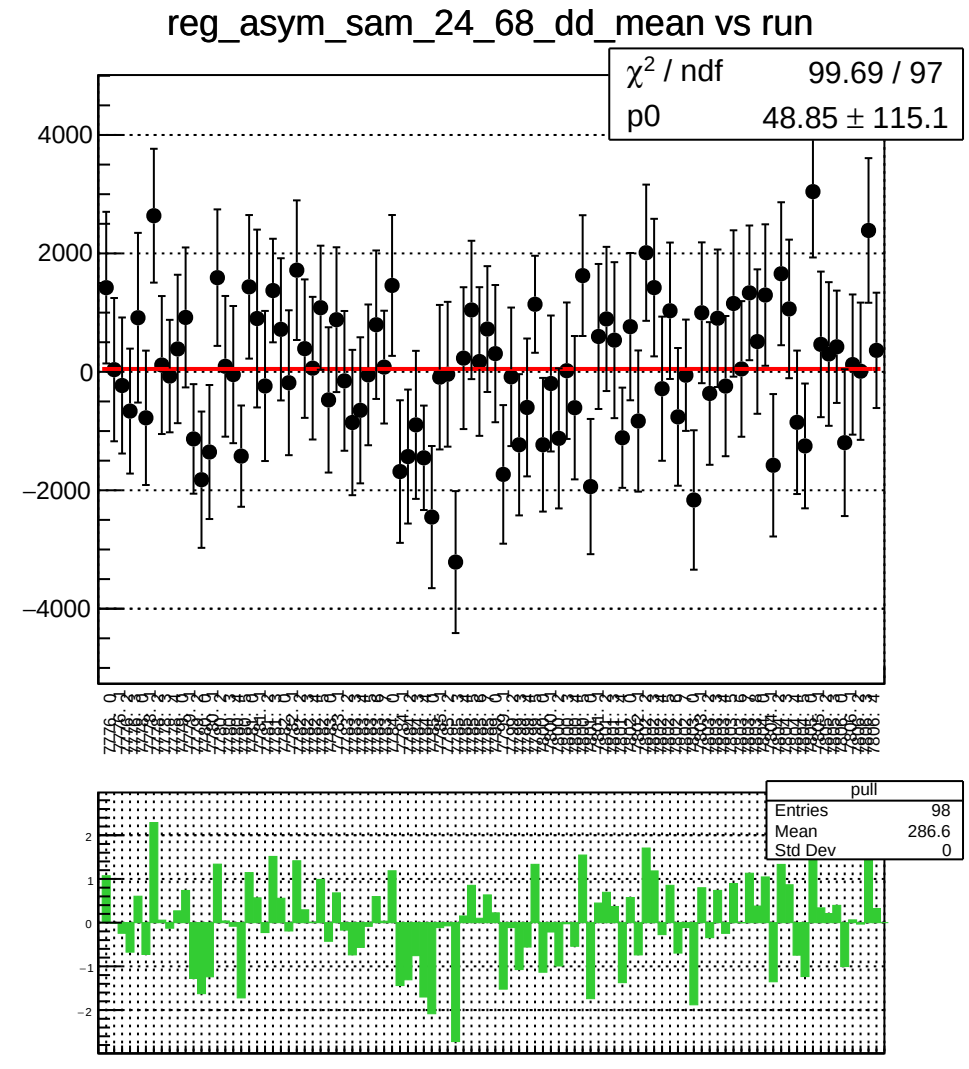

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.043e+05 / 97
p0 33.88 ± 0.02498
120
100
80
60
40
20

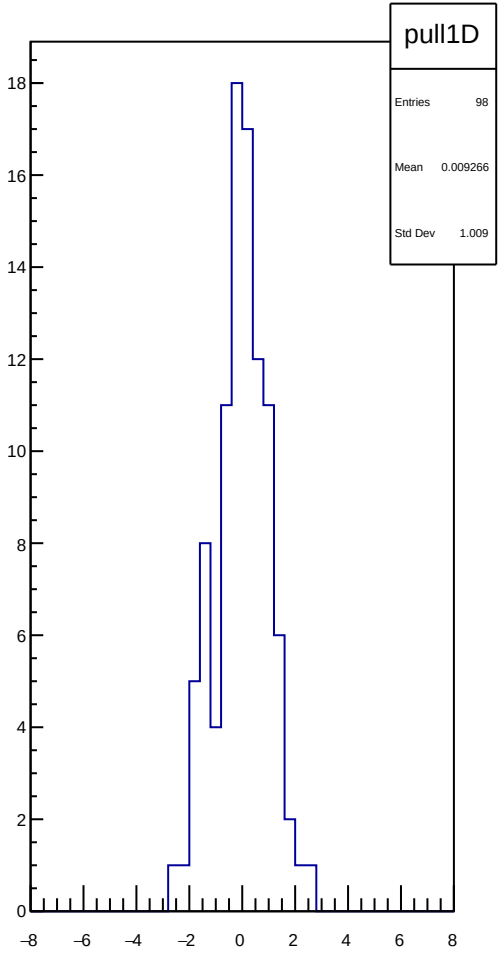

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.17 / 97
p0 −0.09361 ± 0.03533
pull
Entries 98
Mean −214.5
Std Dev 0
pull1D
Entries 98
Mean −0.01122
Std Dev 0.893

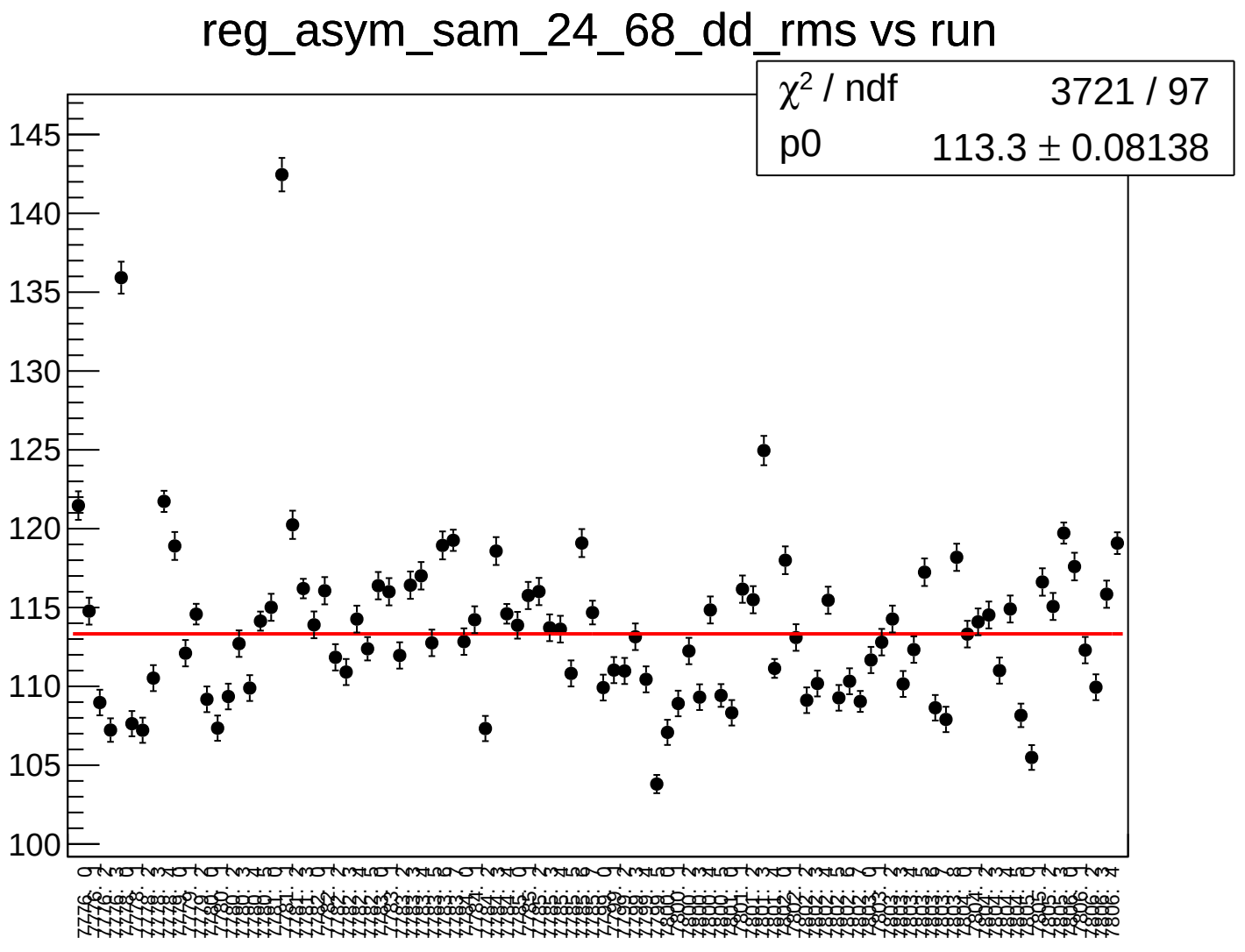

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.043e+05 / 97
p0 33.88 ± 0.02498
120
100
80
60
40
20

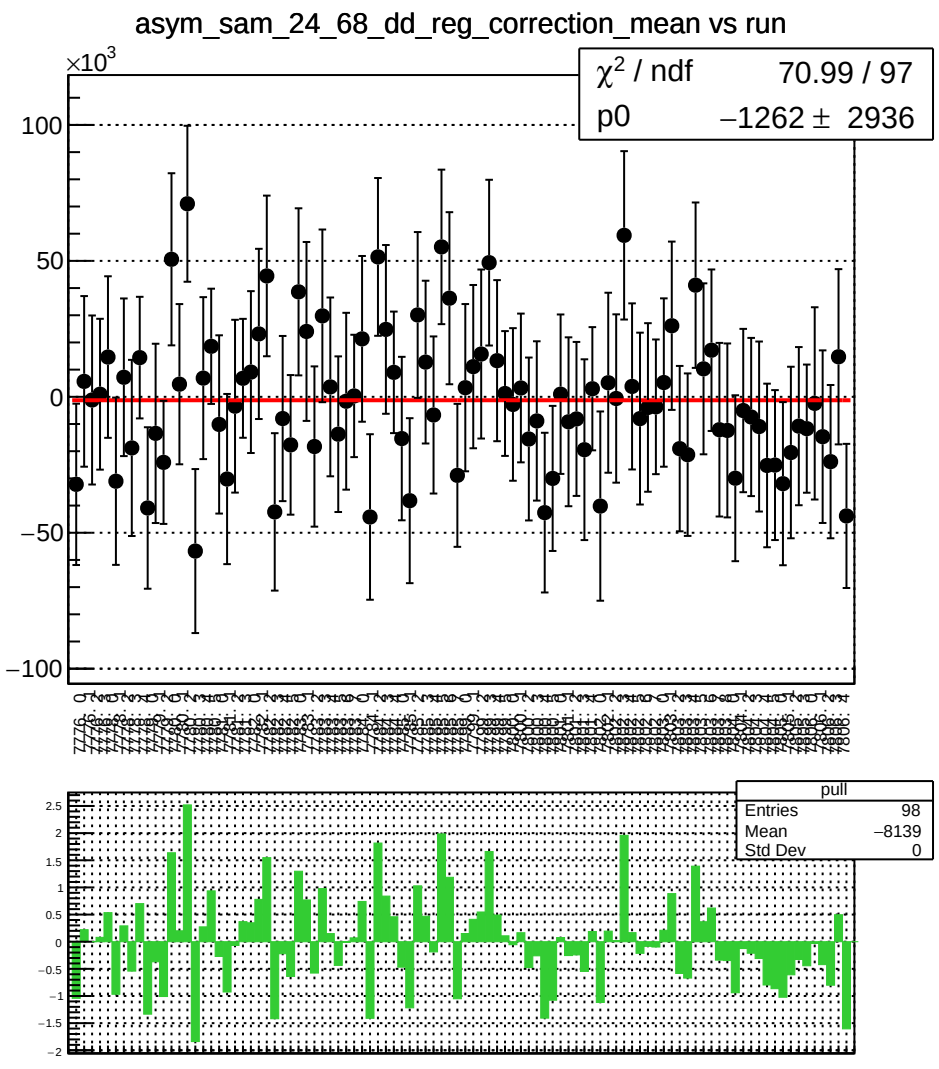

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.7 / 97
p0 4.524e−14 ± 8.782e−14
pull
Entries 98
Mean 41
Std Dev 40.26
pull1D
Entries 98
Mean 0.0546
Std Dev 0.8355

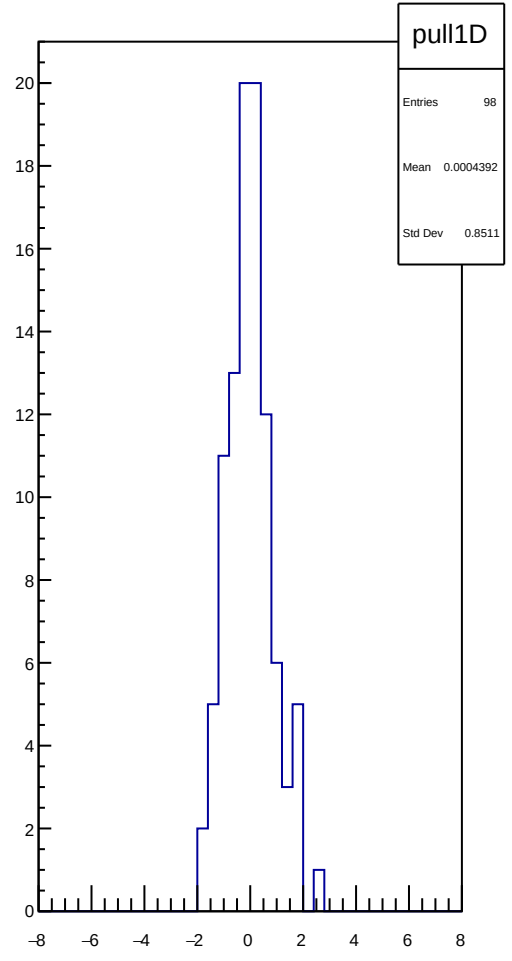

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 9.509e+05 / 97
p0 6.185e−11 ± 6.21e−14

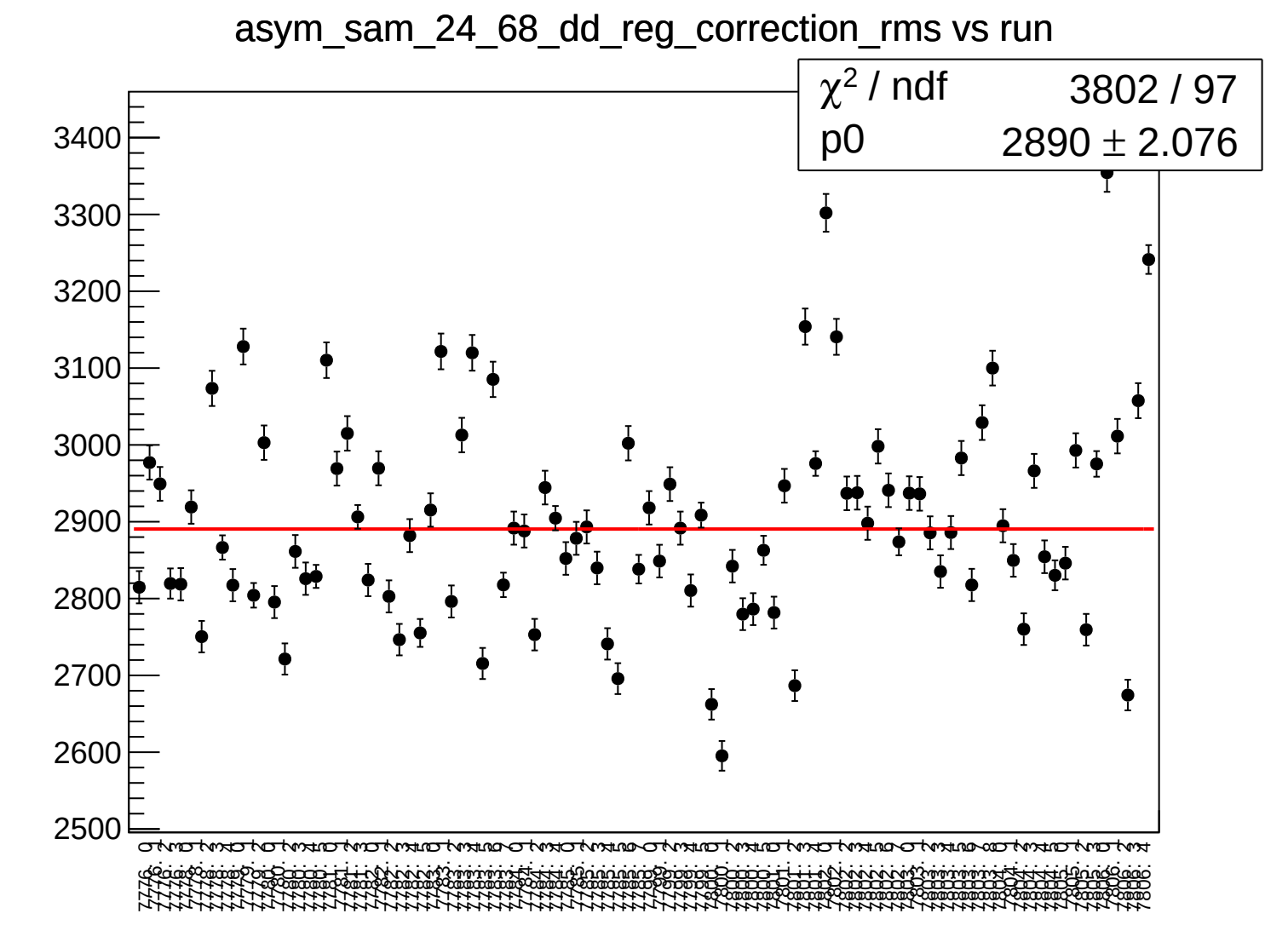

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 99.69 / 97
p0 48.85 ± 115.1
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 286.6
Std Dev 0
2
1
0
−1
−2

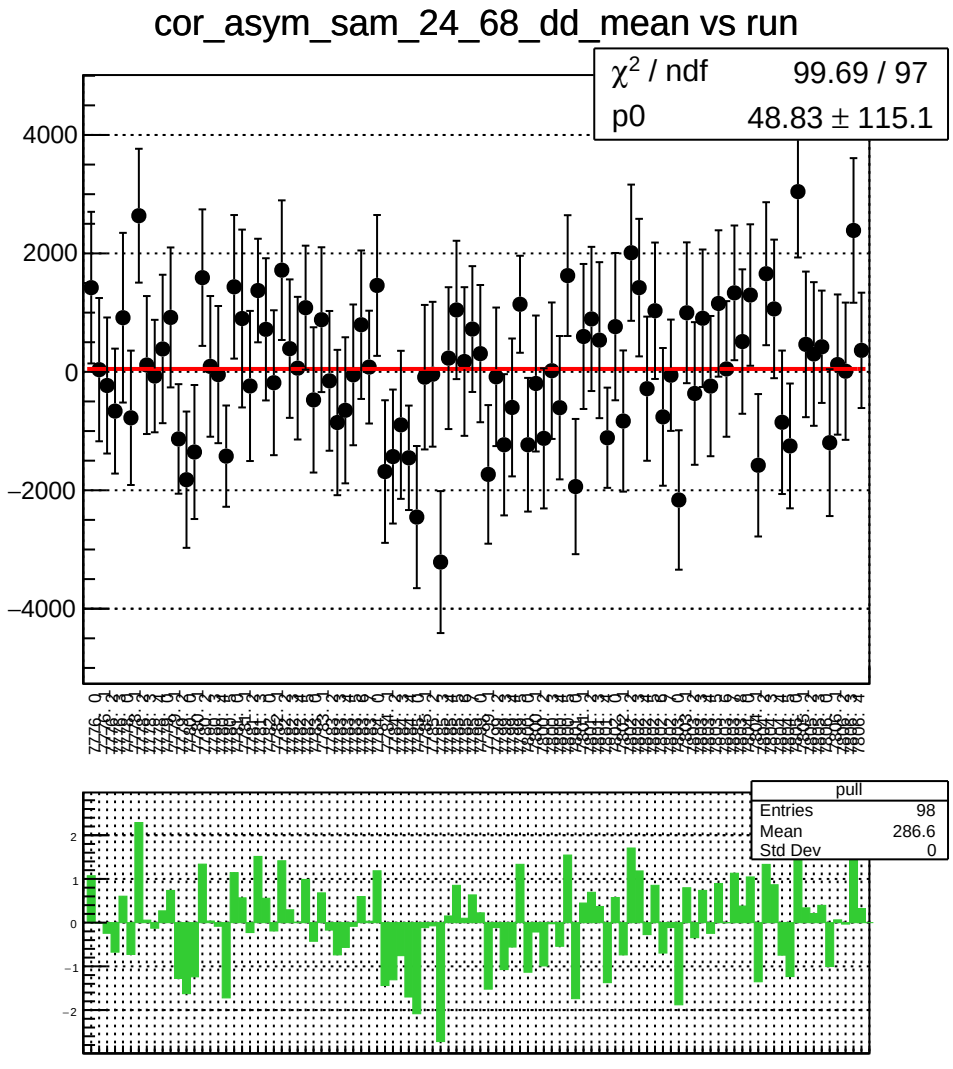

pull1D
Entries 98
Mean 0.009266
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

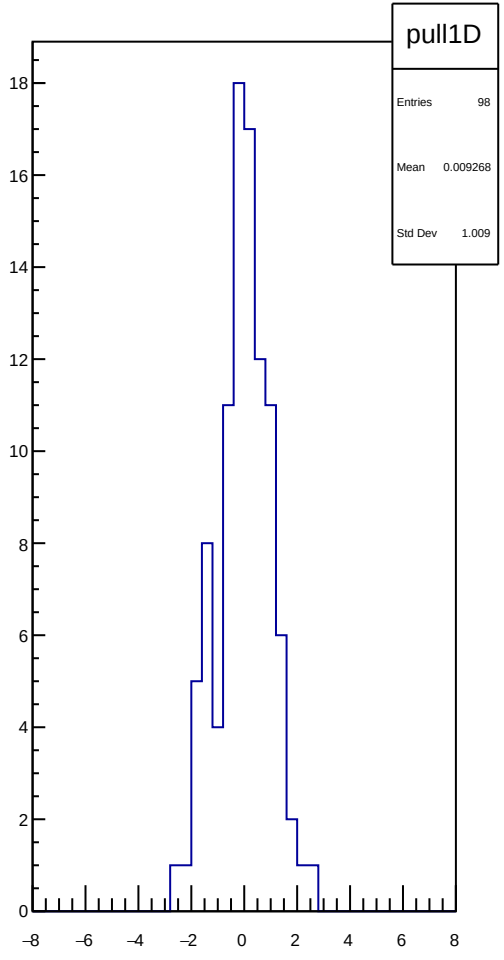

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 3721 / 97
p0 113.3 ± 0.08138
145
140
135
130
125
120
115
110
105
100

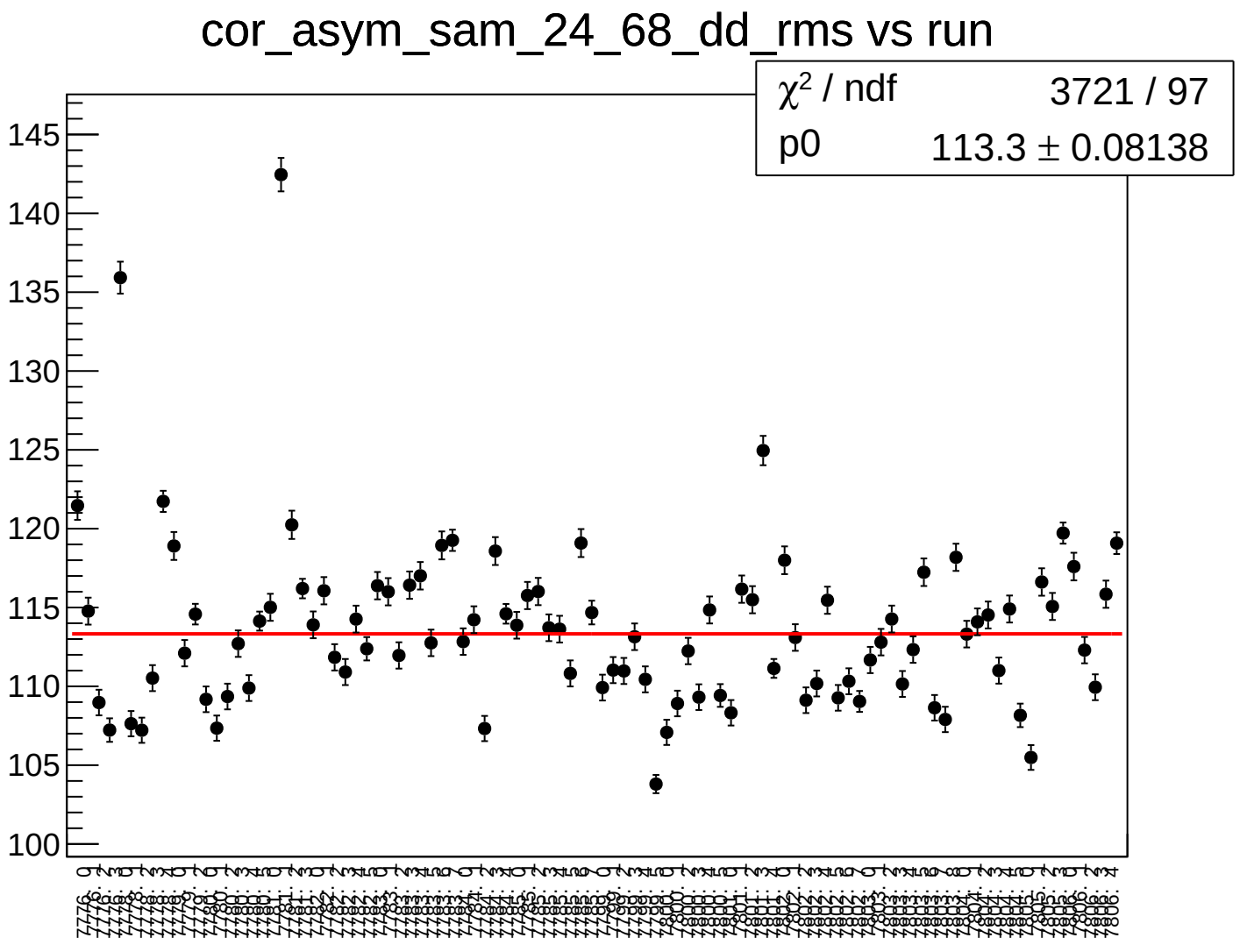

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 70.99 / 97
p0 −1262 ± 2936
100
50
0
−50
−100
pull
Entries 98
Mean −8139
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

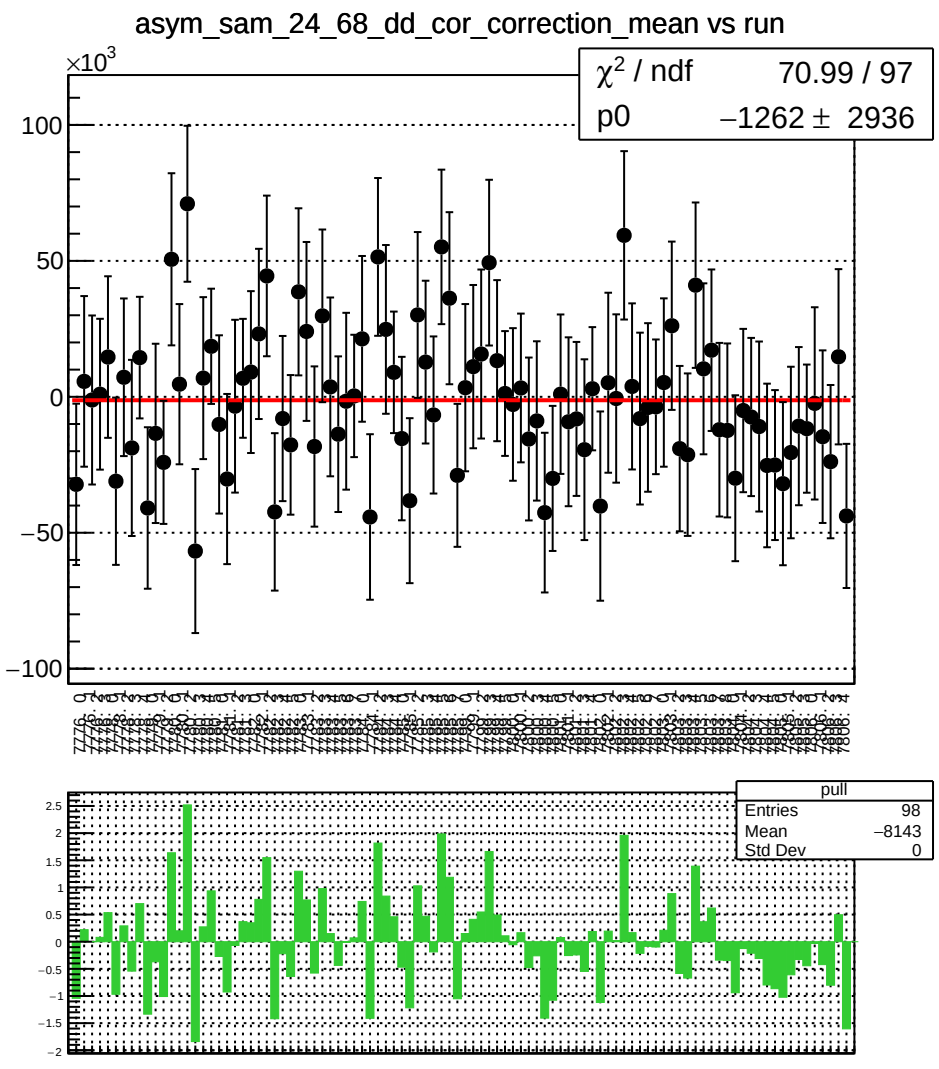

pull1D
Entries 98
Mean 0.0004392
Std Dev 0.8511
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

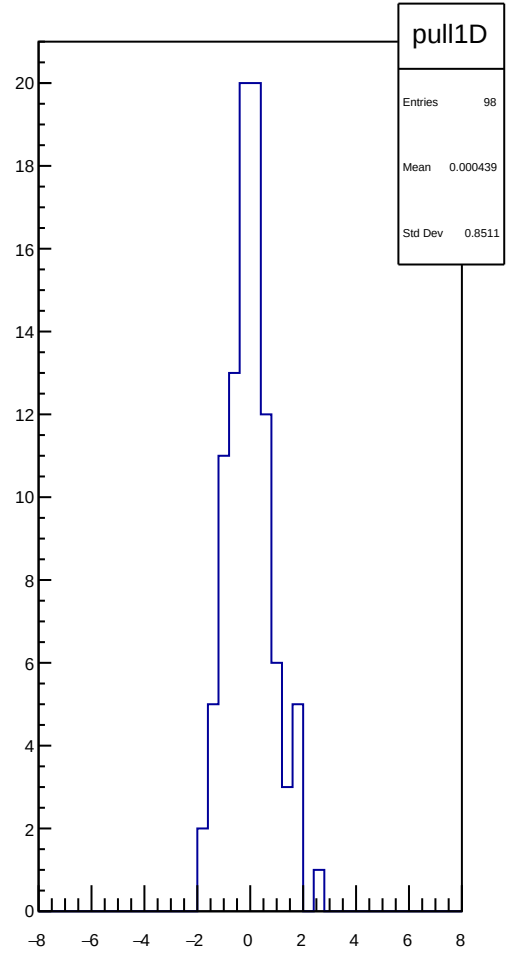

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 3802 / 97
p0 2890 ± 2.076
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500

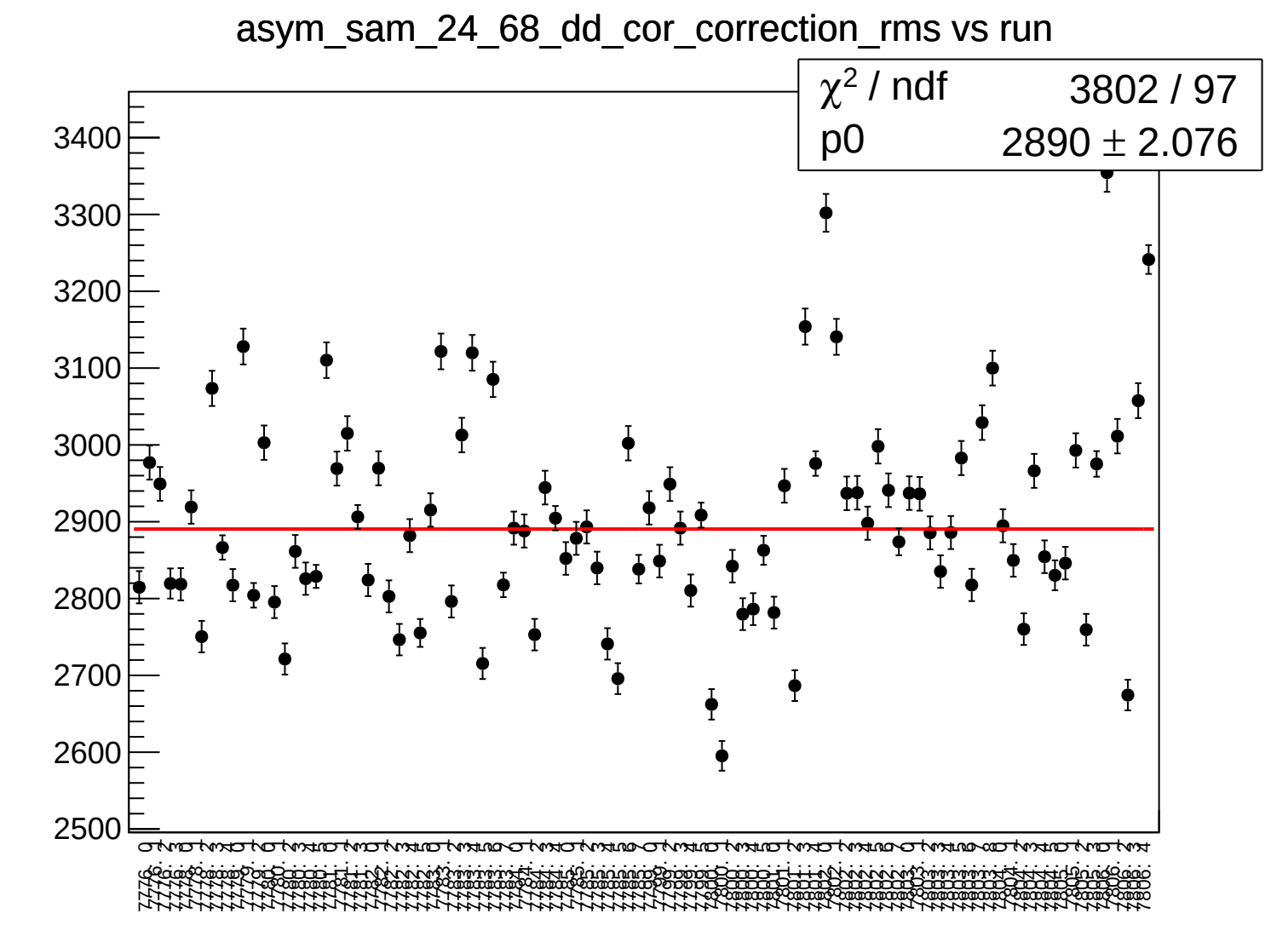

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 99.69 / 97
p0 48.83 ± 115.1
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 286.6
Std Dev 0
2
1
0
−1
−2

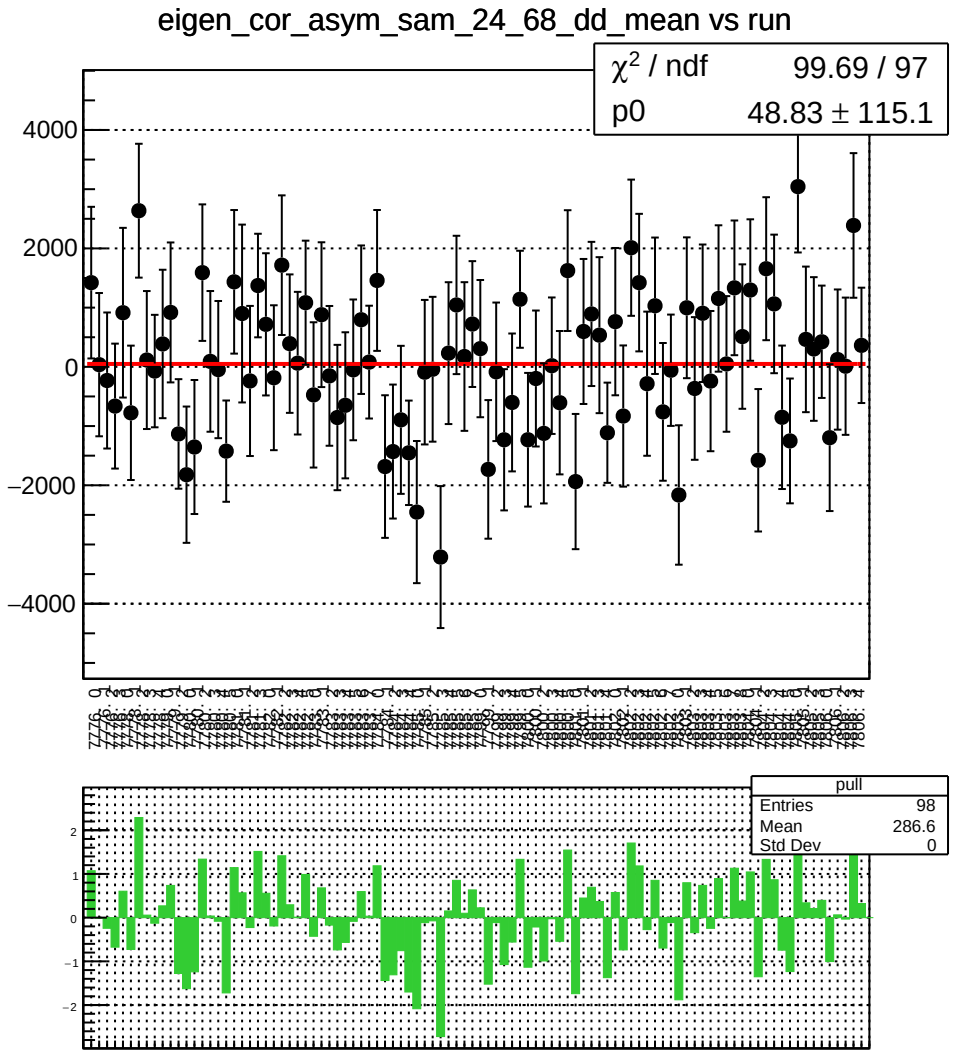

pull1D
Entries 98
Mean 0.009268
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

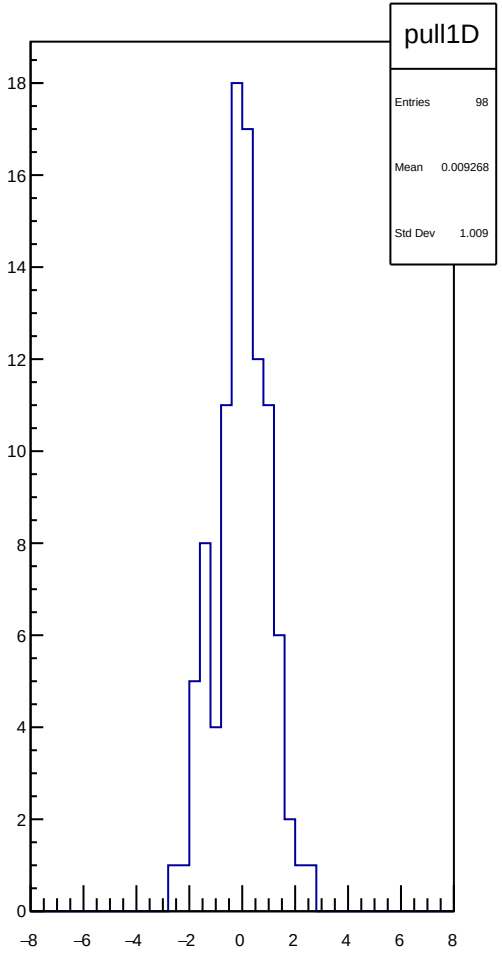

cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 3721 / 97
p0 113.3 ± 0.08138
145
140
135
130
125
120
115
110
105
100

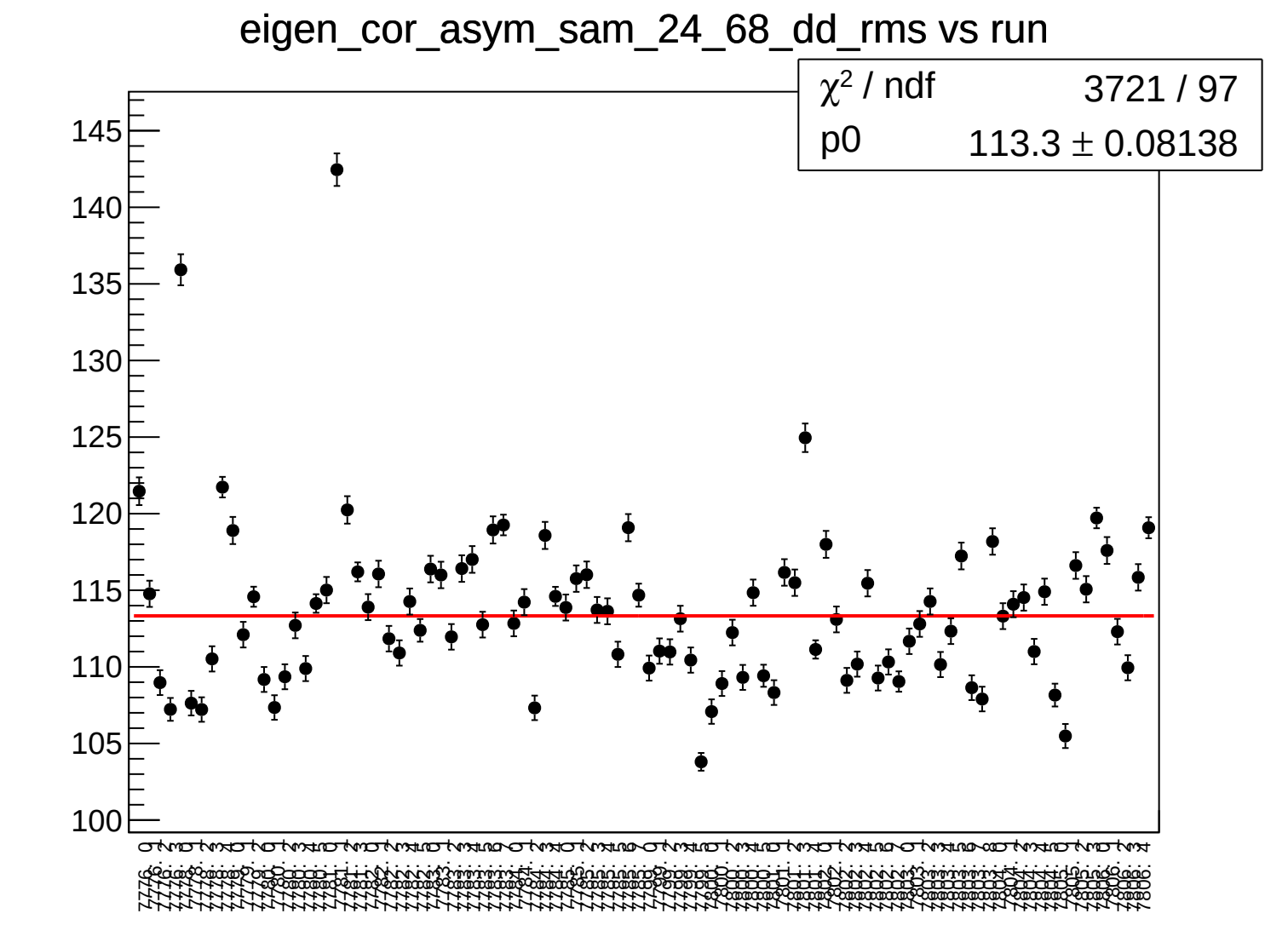

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 70.99 / 97
p0 −1262 ± 2936
100
50
0
−50
−100
pull
Entries 98
Mean −8143
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

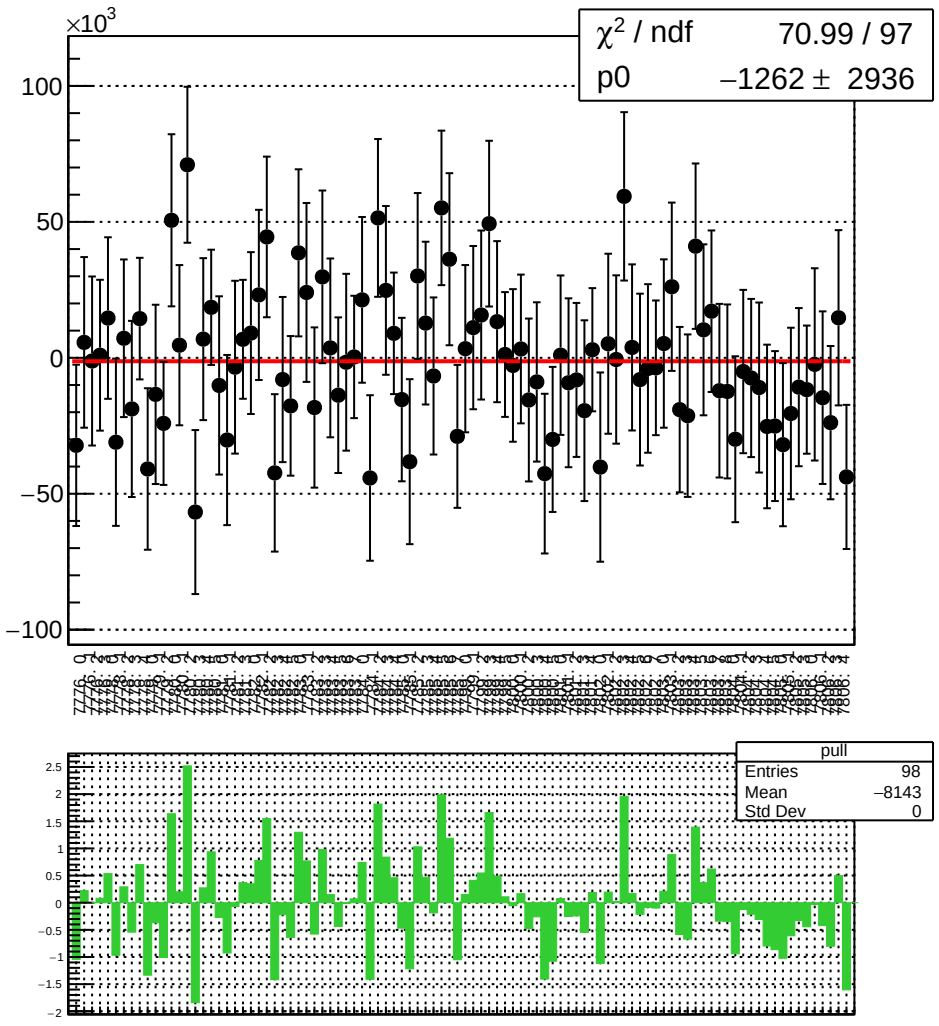

pull1D
Entries 98
Mean 0.000439
Std Dev 0.8511
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

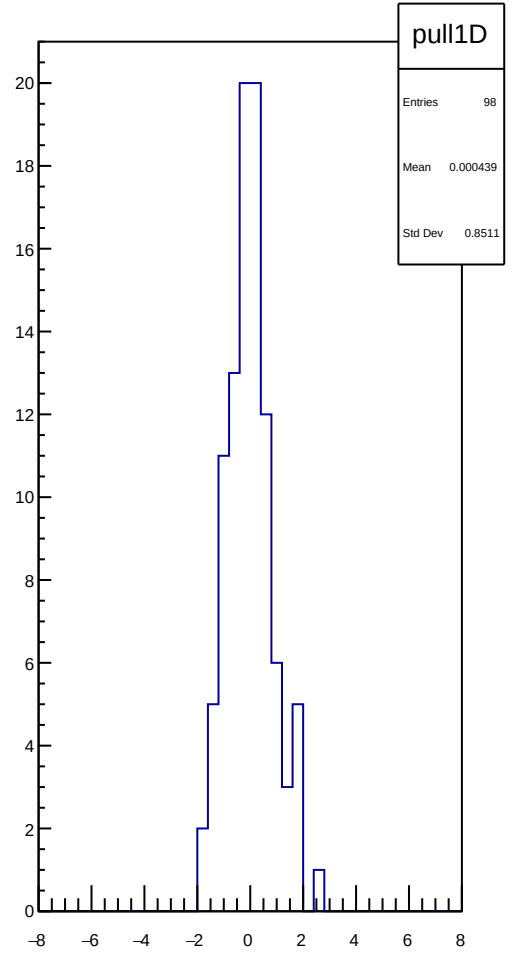

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 3802 / 97
p0 2890 ± 2.076
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500

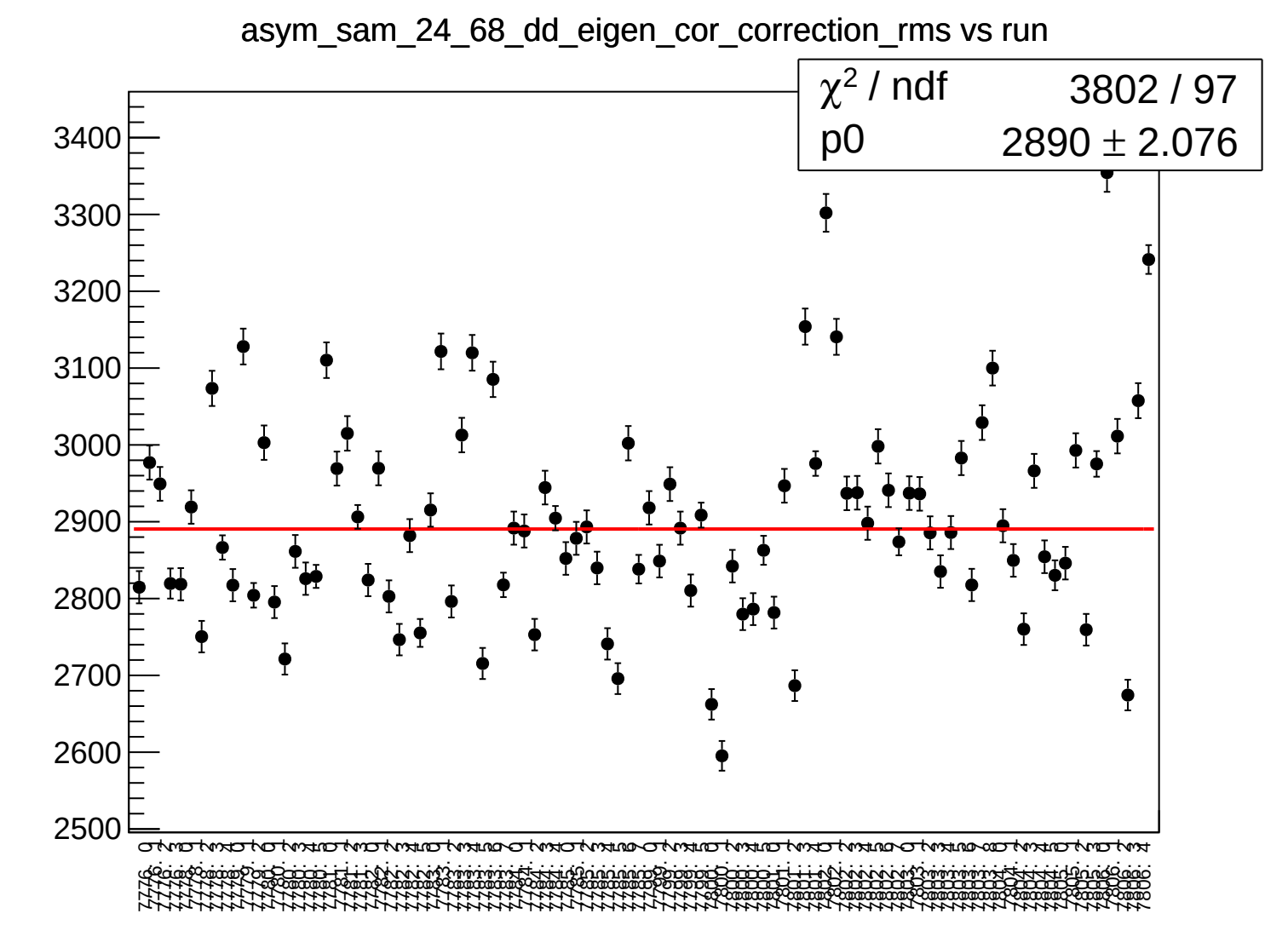

eigen_cor_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 99.69 / 97
p0 48.83 ± 115.1
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 286.6
Std Dev 0
2
1
0
−1
−2

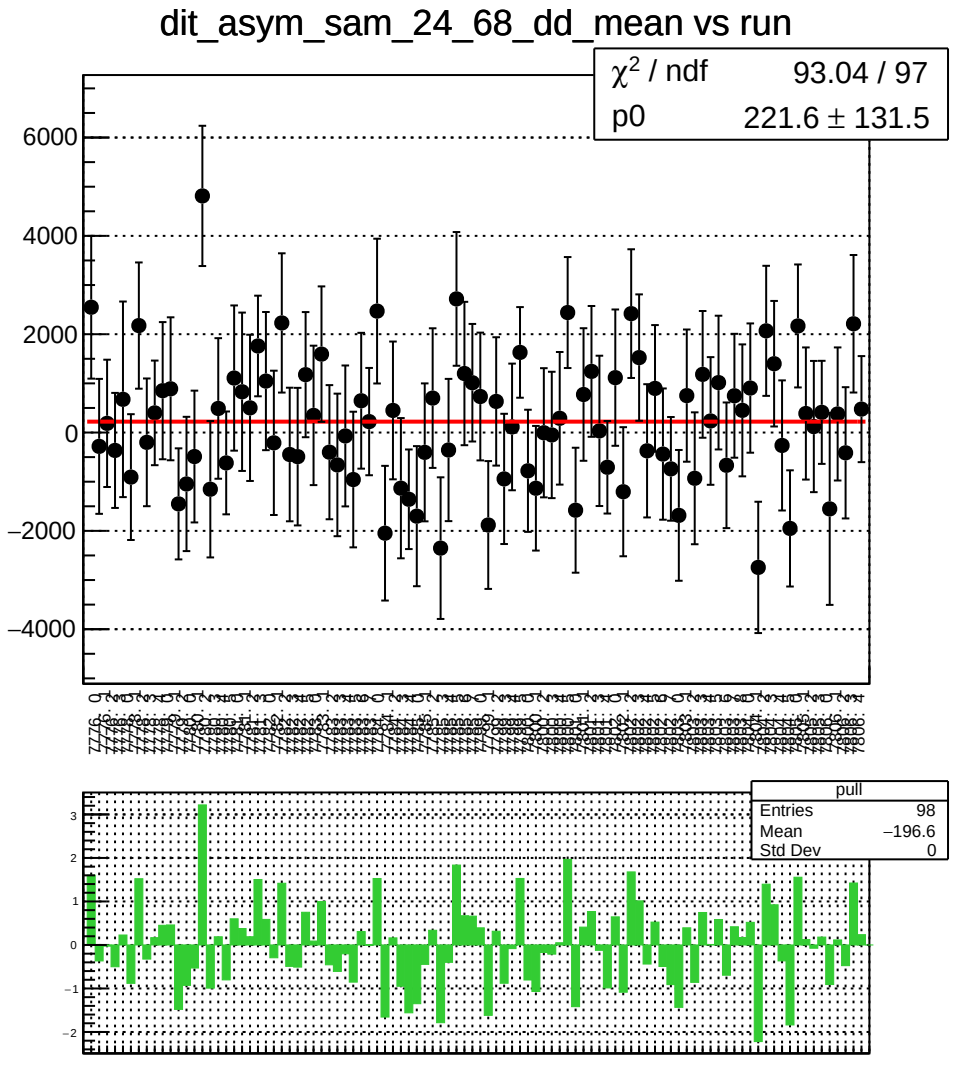

pull1D
Entries 98
Mean 0.009268
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

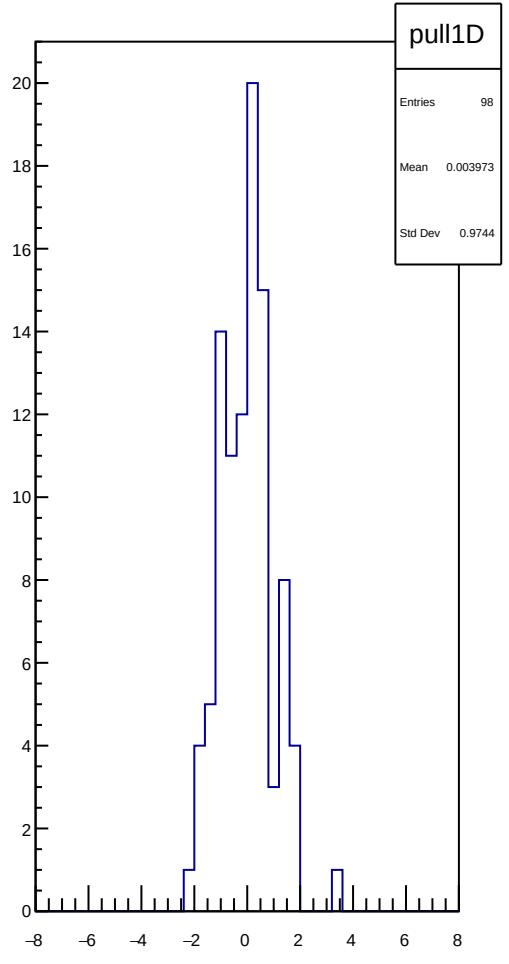

eigen_cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 3721 / 97
p0 113.3 ± 0.08138
145
140
135
130
125
120
115
110
105
100

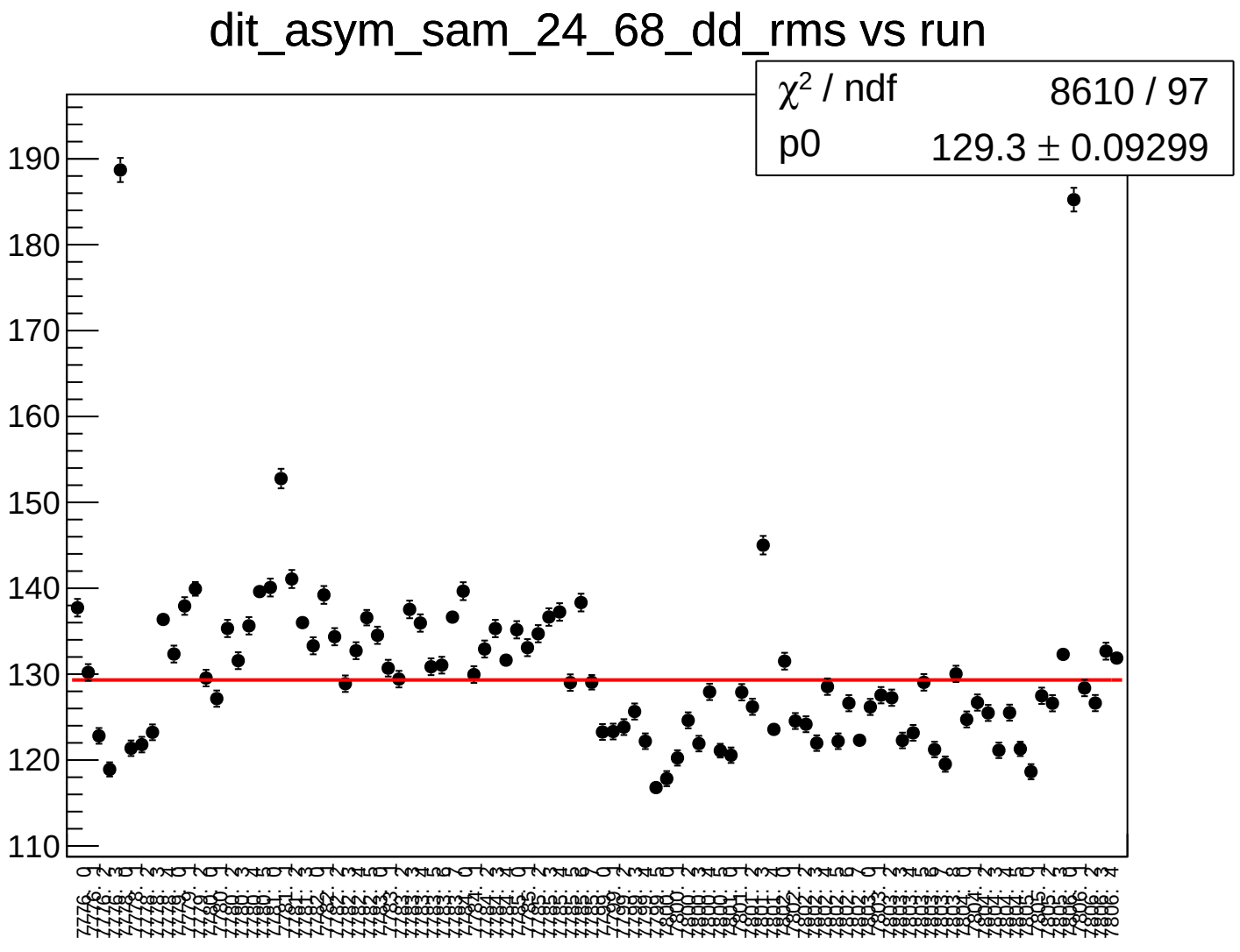

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.99 / 97
p0 −1262 ± 2936
100
50
0
−50
−100
pull
Entries 98
Mean −8143
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

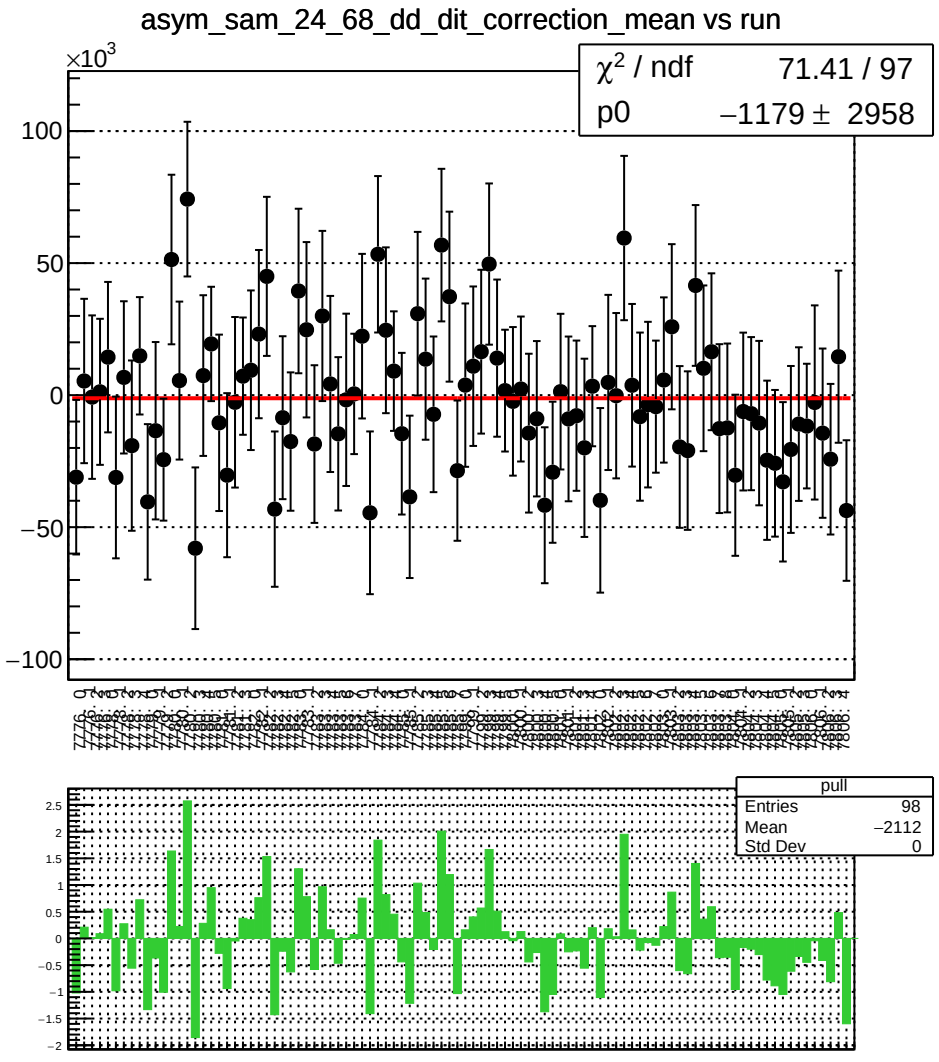

pull1D
Entries 98
Mean 0.000439
Std Dev 0.8511
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

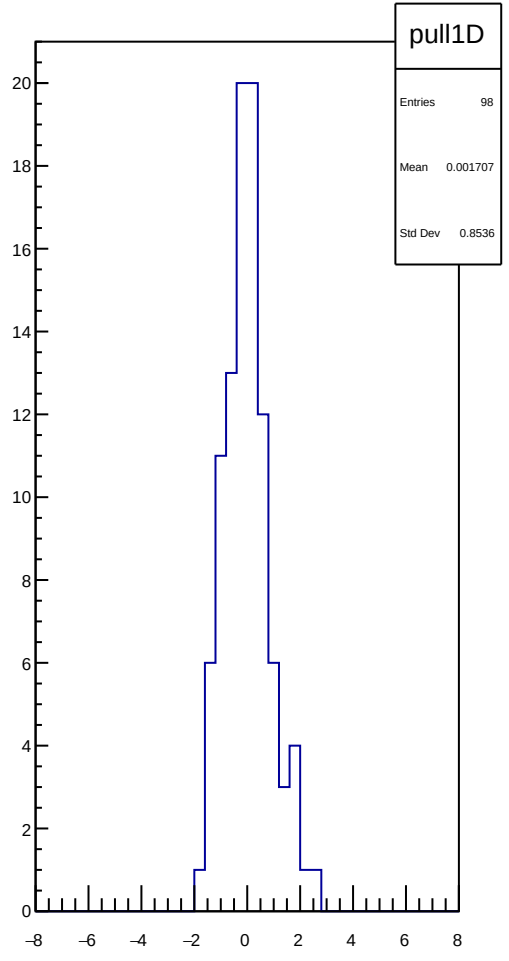

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 3802 / 97
p0 2890 ± 2.076
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500

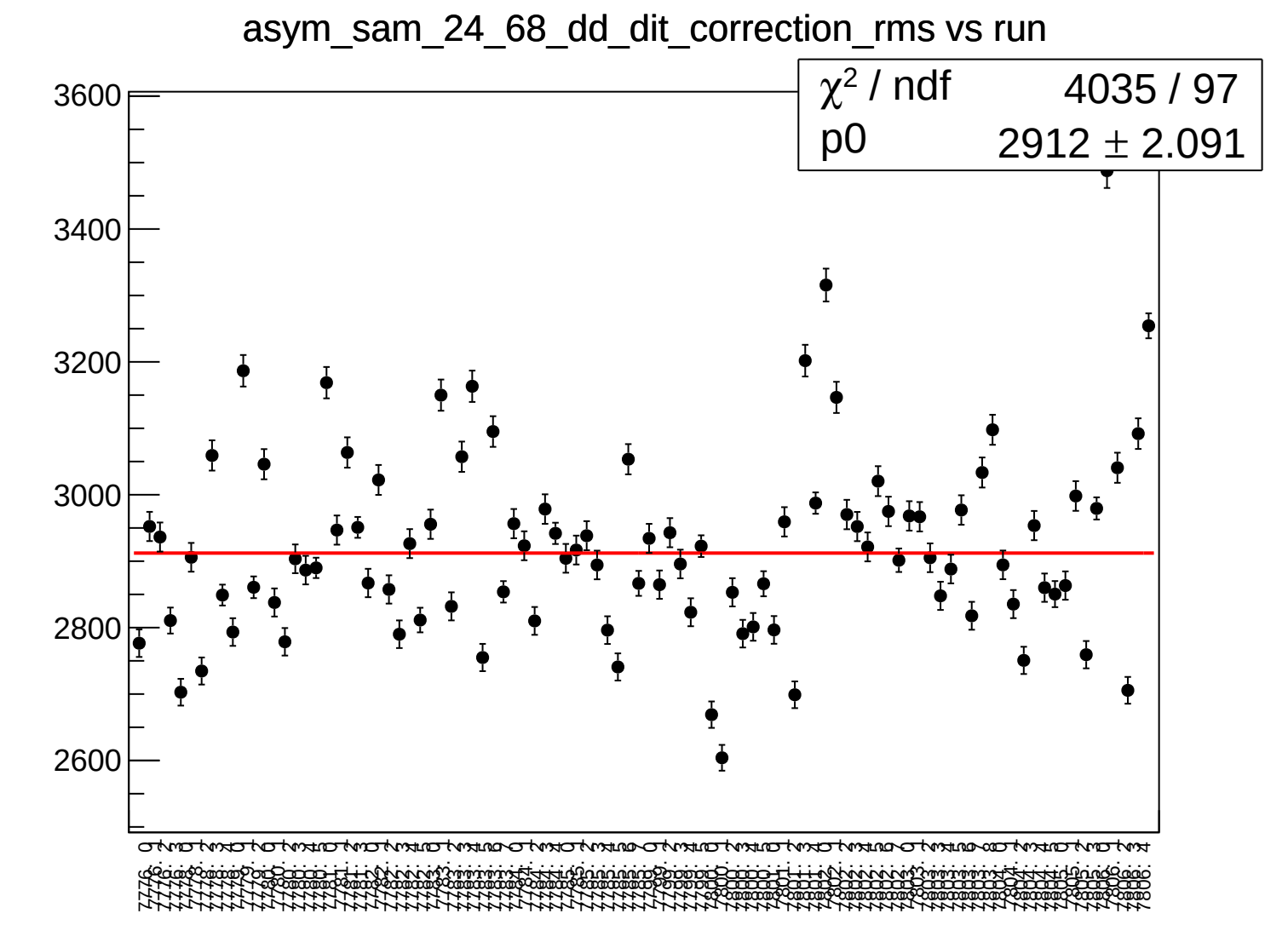

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.04 / 97
p0 221.6 ± 131.5
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean −196.6
Std Dev 0
3
2
1
0
−1
−2

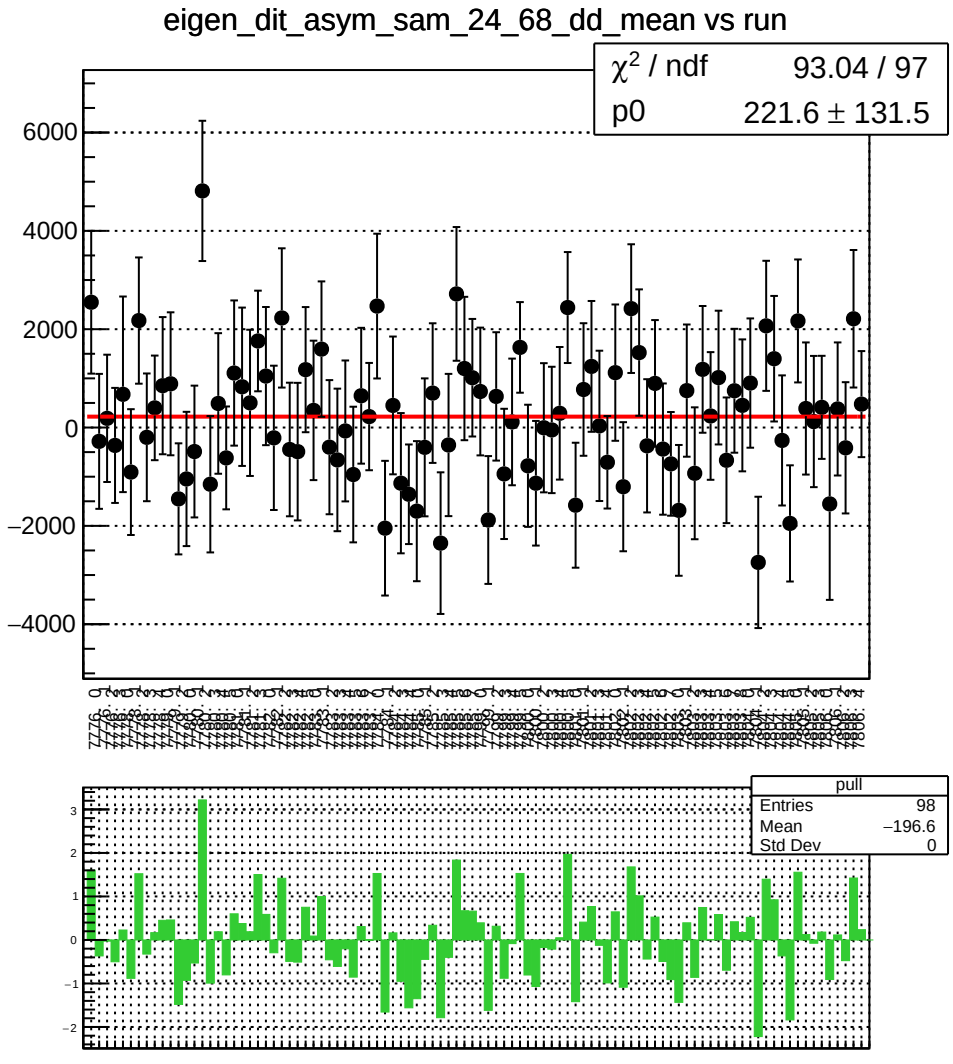

pull1D
Entries 98
Mean 0.003973
Std Dev 0.9744
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

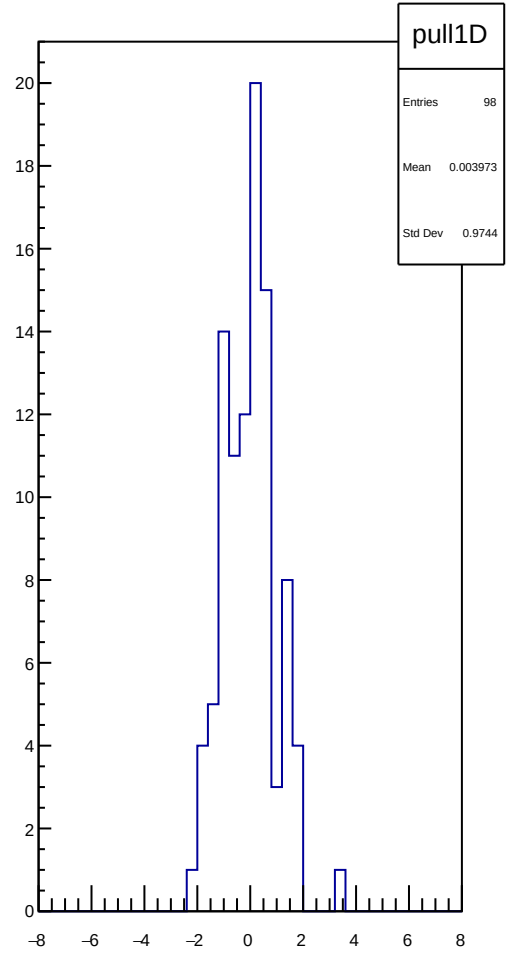

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 8610 / 97
p0 129.3 ± 0.09299
190
180
170
160
150
140
130
120
110

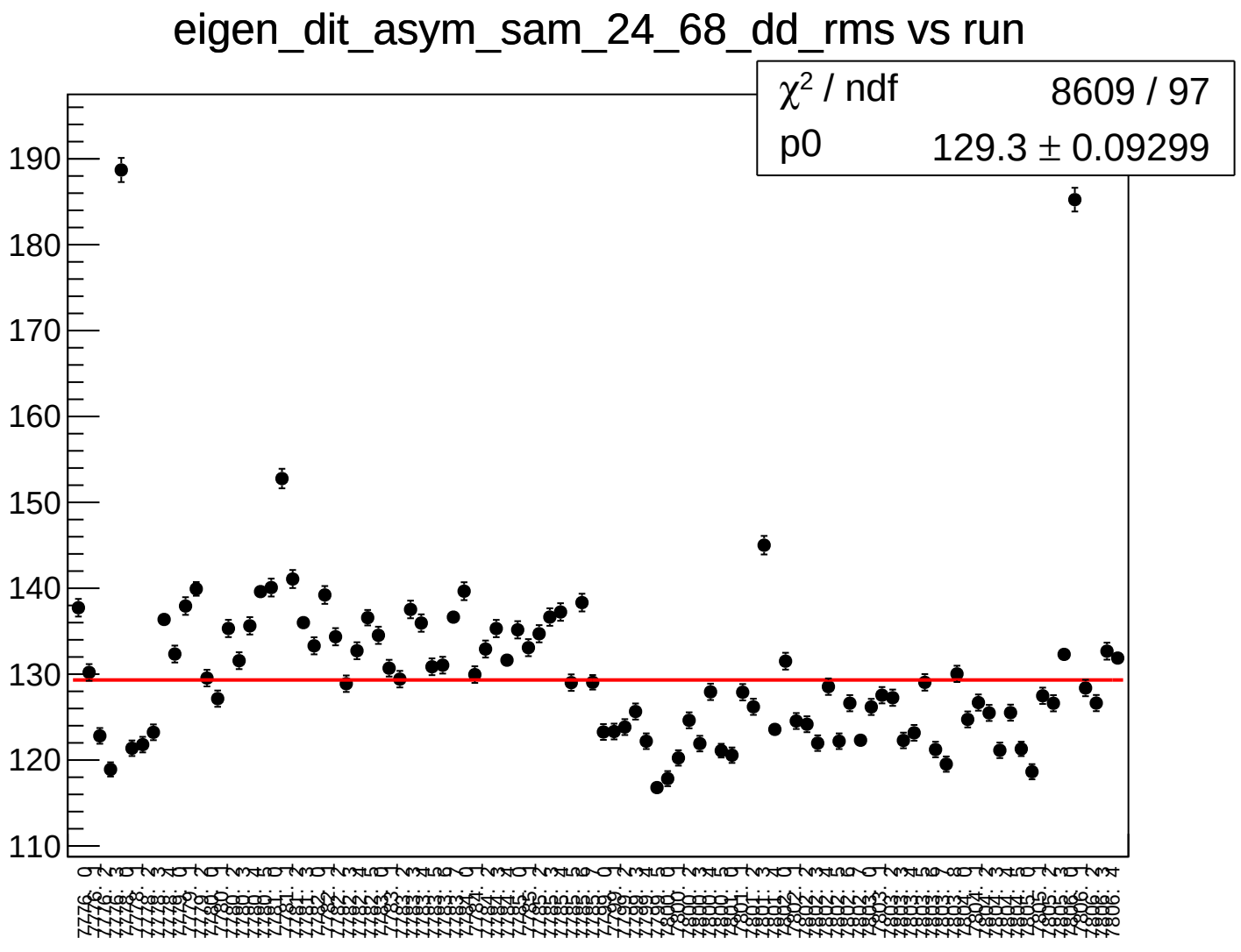

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 71.41 / 97
p0 −1179 ± 2958
100
50
0
−50
−100
pull
Entries 98
Mean −2112
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

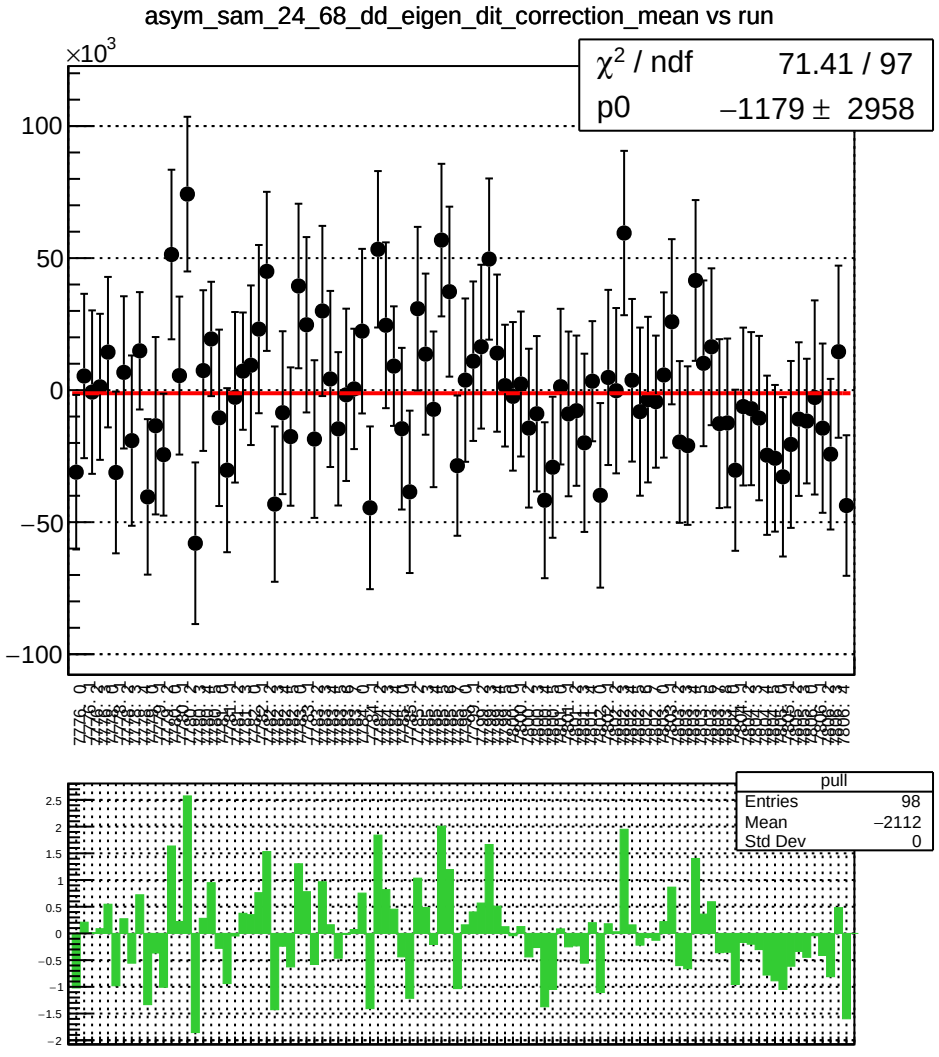

pull1D
Entries 98
Mean 0.001707
Std Dev 0.8536
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

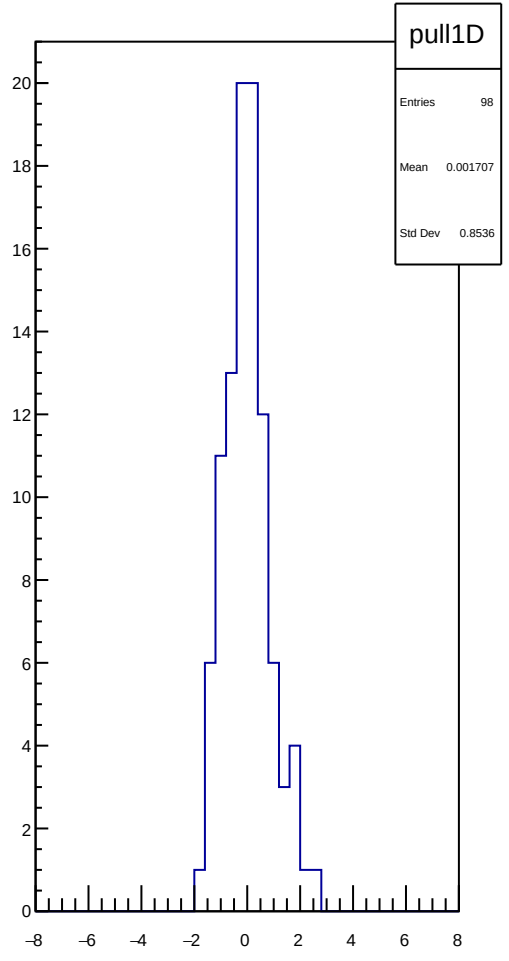

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 4035 / 97
p0 2912 ± 2.091
3600
3400
3200
3000
2800
2600

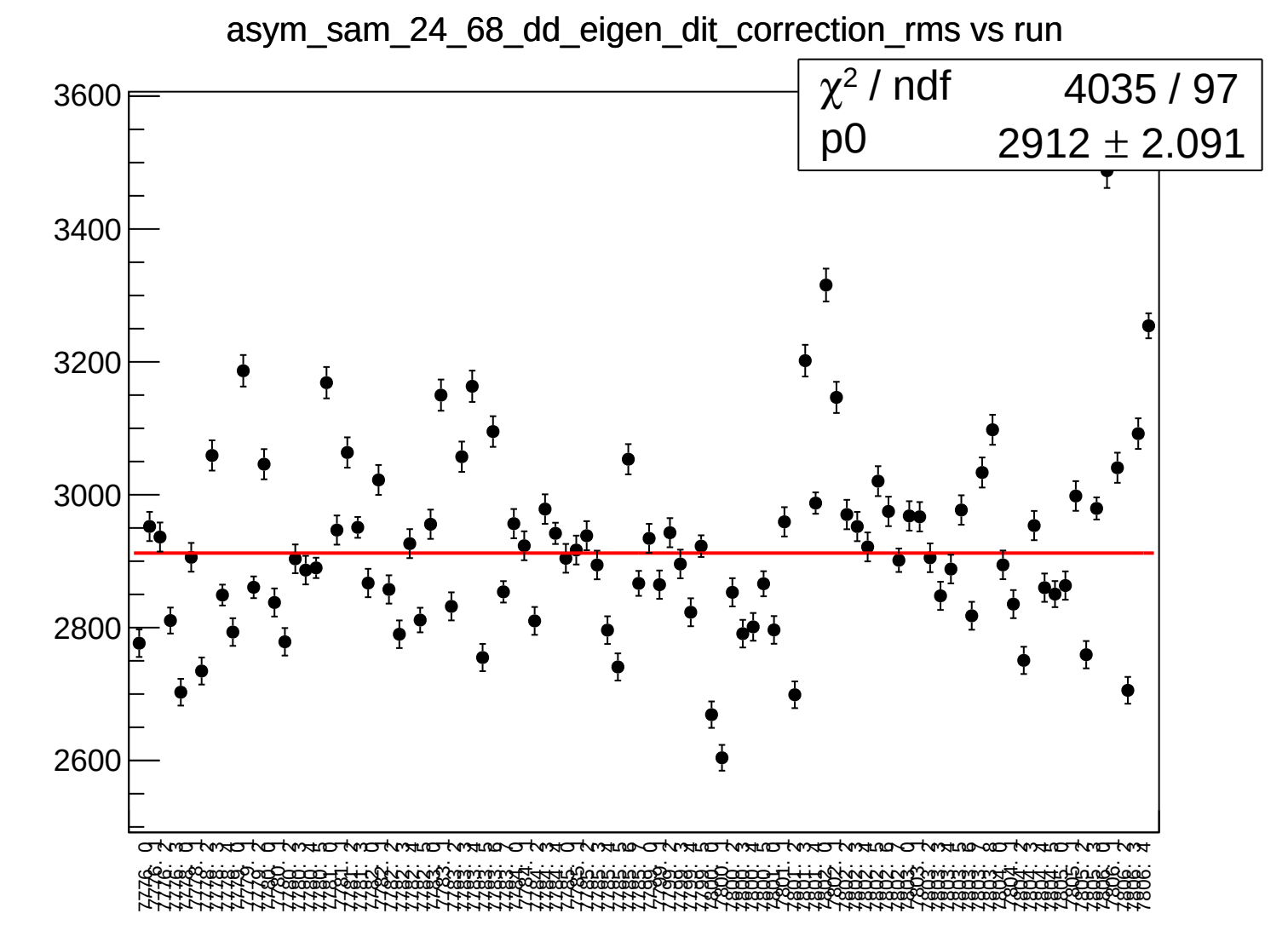

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.04 / 97
p0 221.6 ± 131.5
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean −196.6
Std Dev 0
3
2
1
0
−1
−2

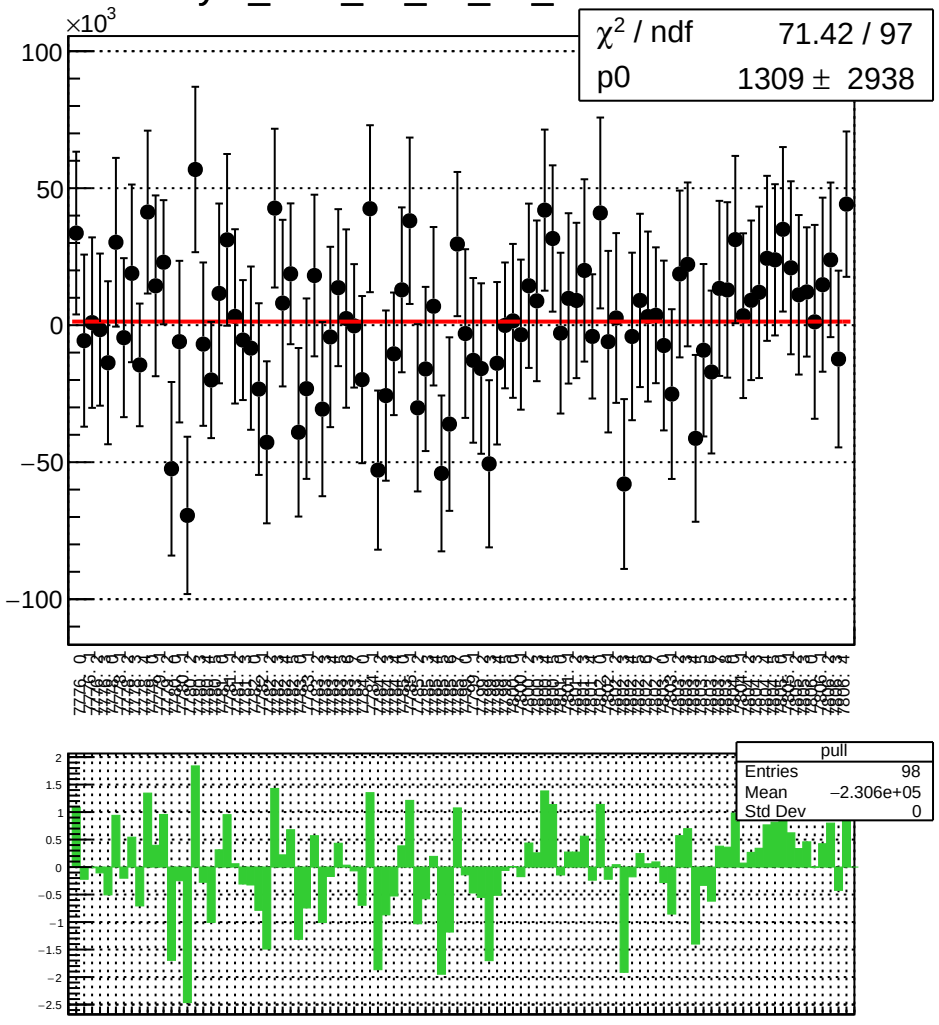

pull1D
Entries 98
Mean 0.003973
Std Dev 0.9744
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

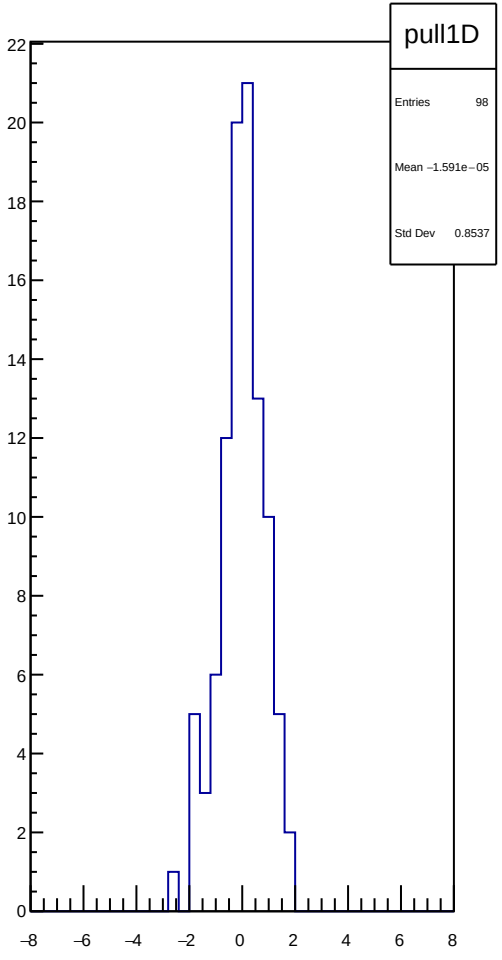

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 8609 / 97
p0 129.3 ± 0.09299
190
180
170
160
150
140
130
120
110

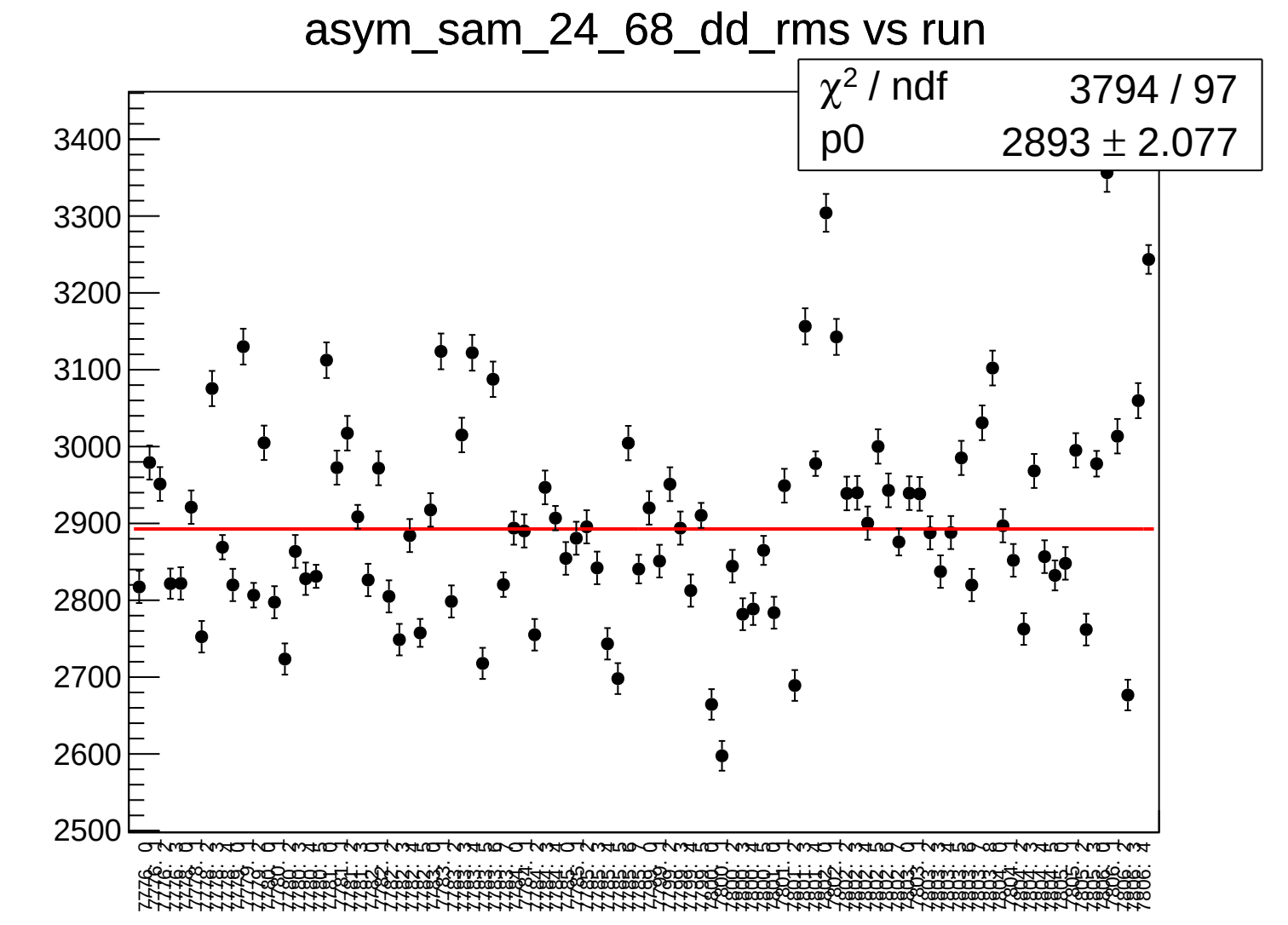

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 71.41 / 97
p0 −1179 ± 2958
100
50
0
−50
−100
pull
Entries 98
Mean −2112
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

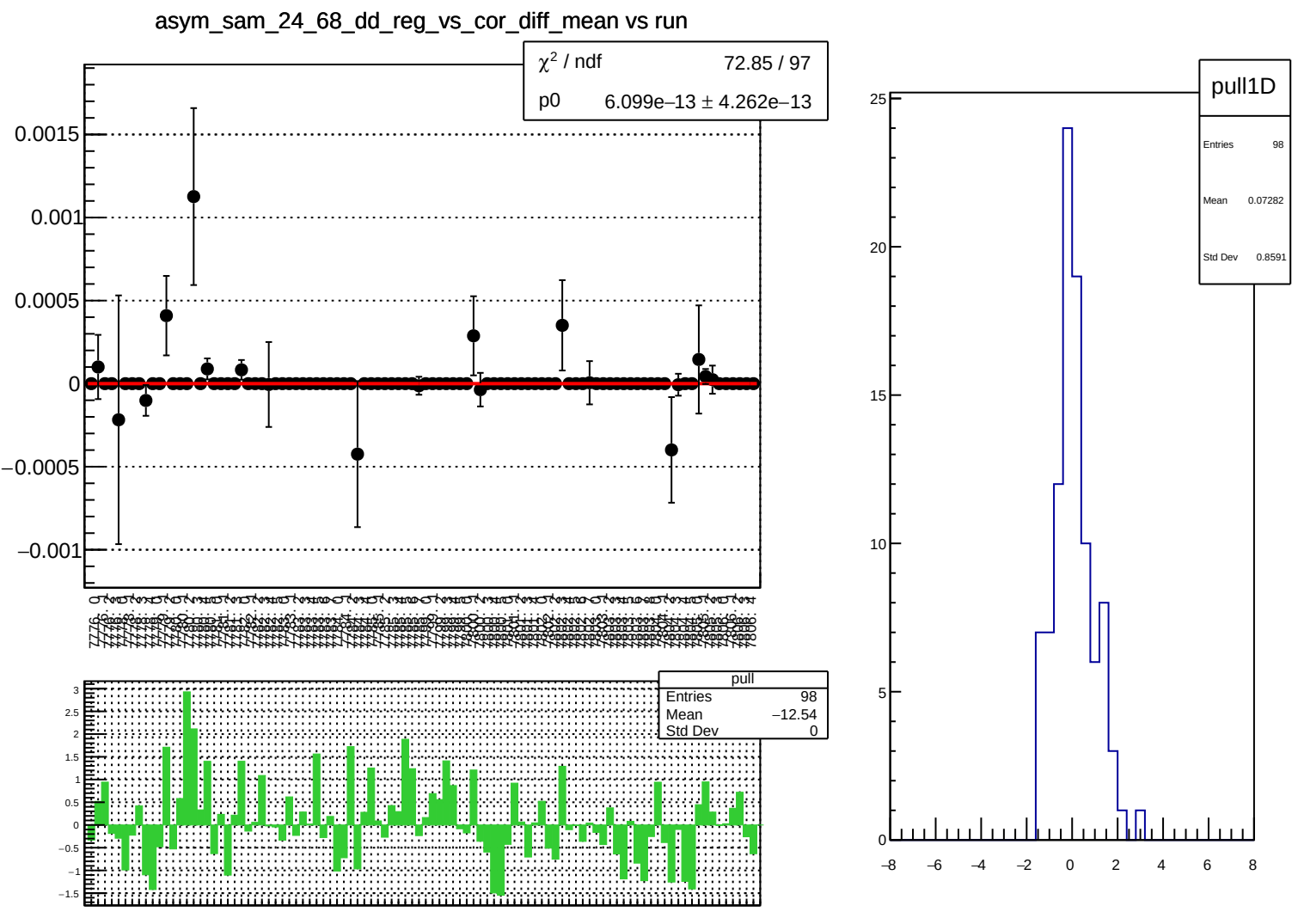

pull1D
Entries 98
Mean 0.001707
Std Dev 0.8536
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

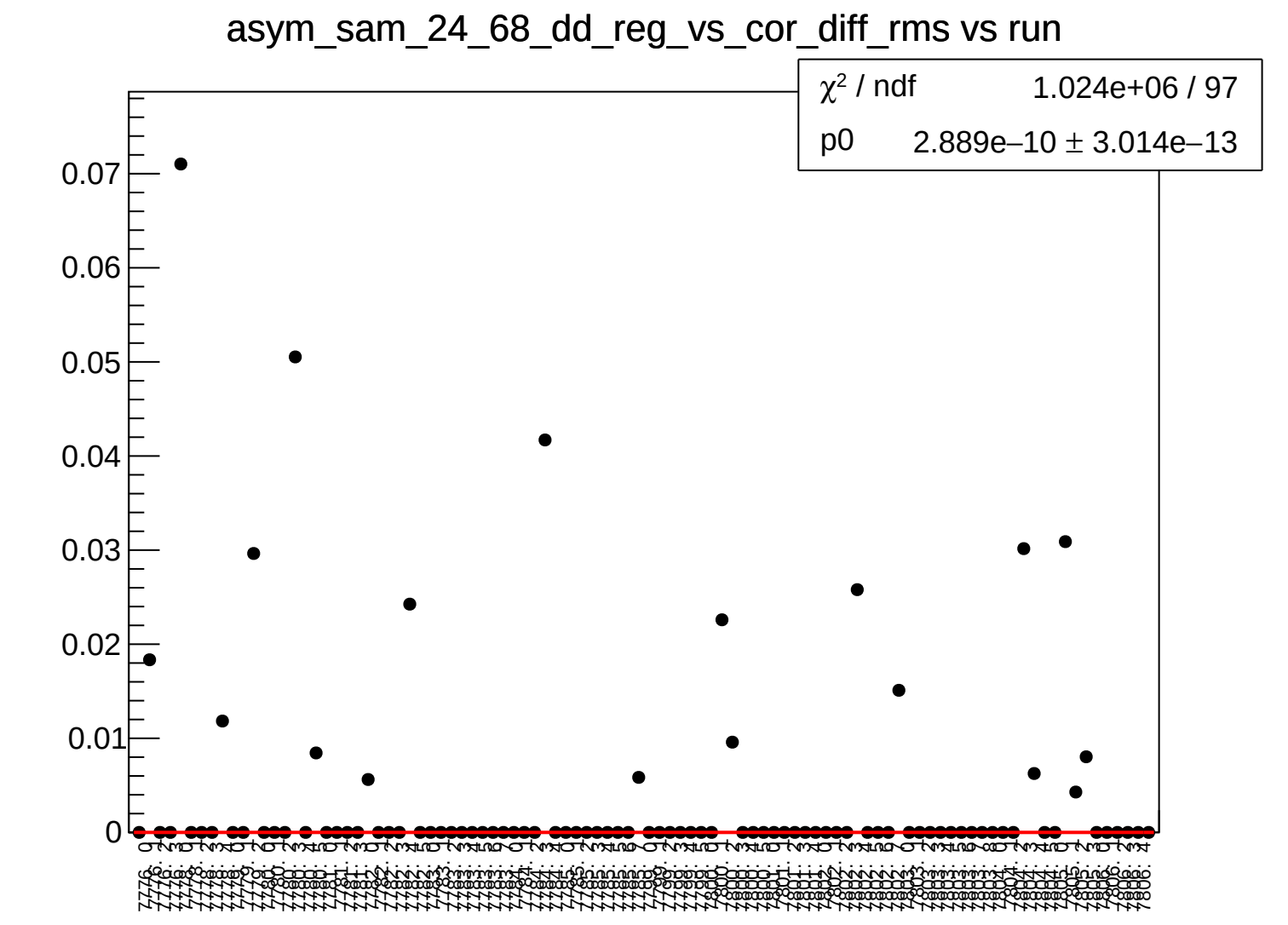

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 4035 / 97
p0 2912 ± 2.091
3600
3400
3200
3000
2800
2600

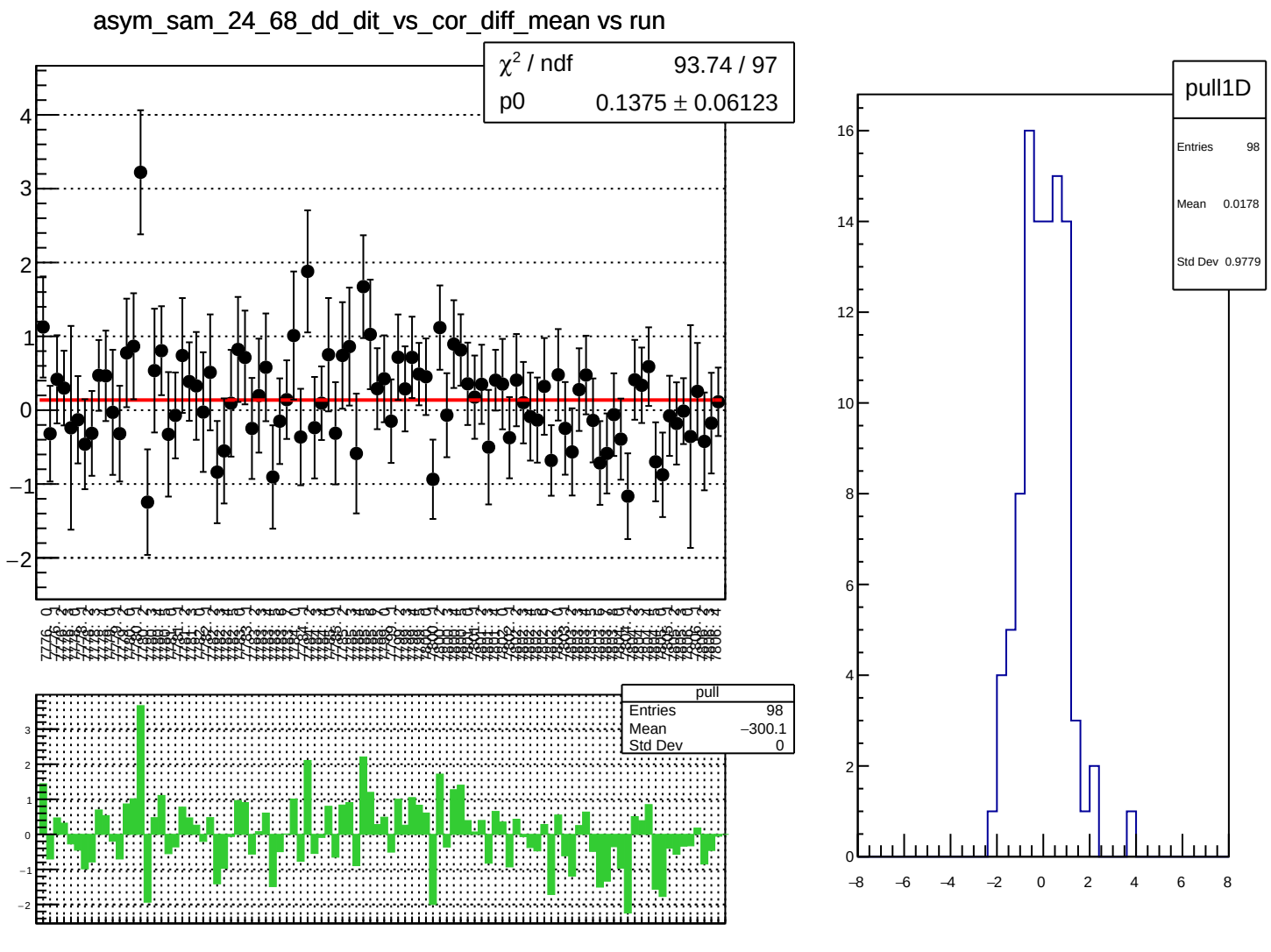

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 71.42 / 97
p0 1309 ± 2938
pull
Entries 98
Mean −2.306e+05
Std Dev 0

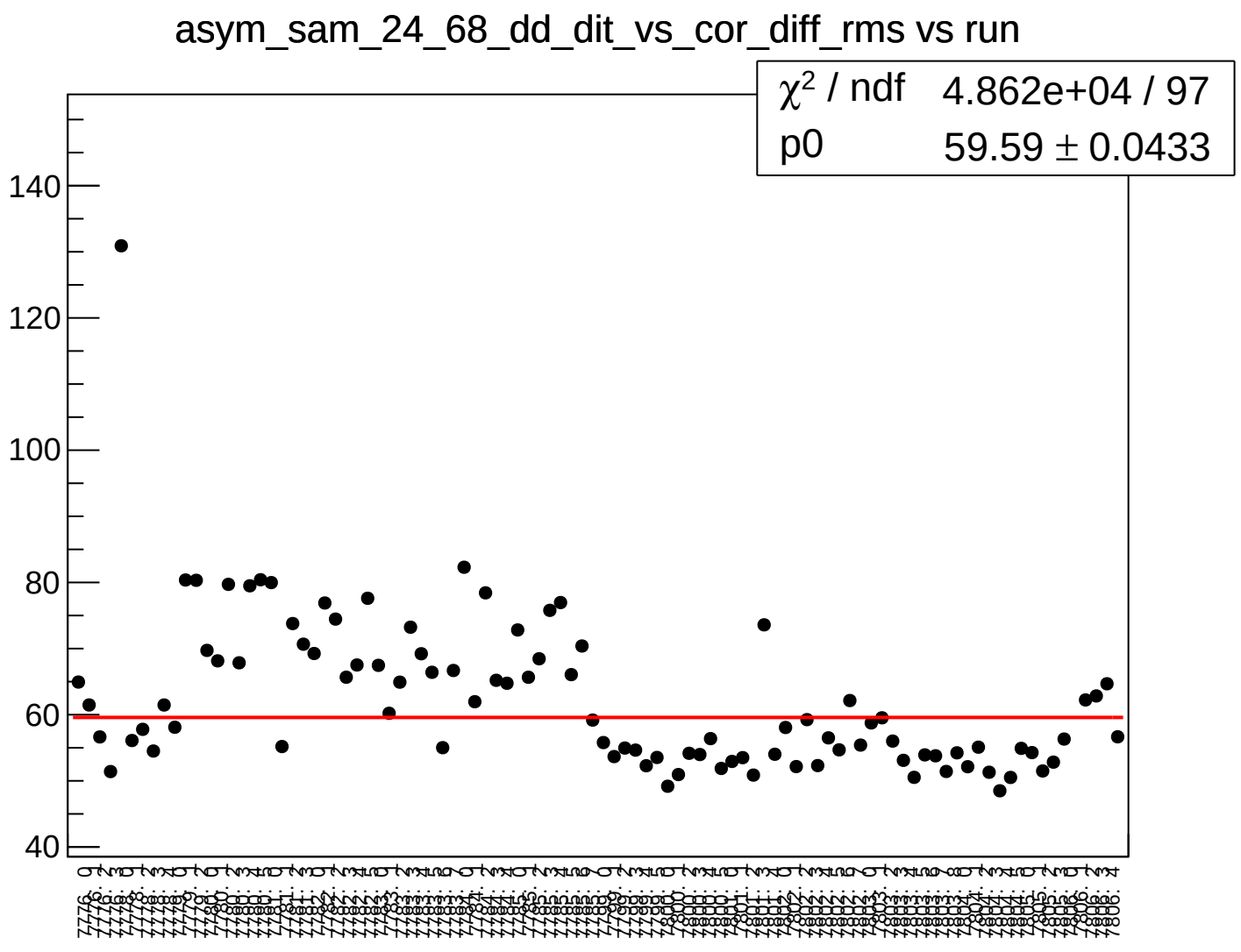

pull1D
Entries 98
Mean −1.591e−05
Std Dev 0.8537

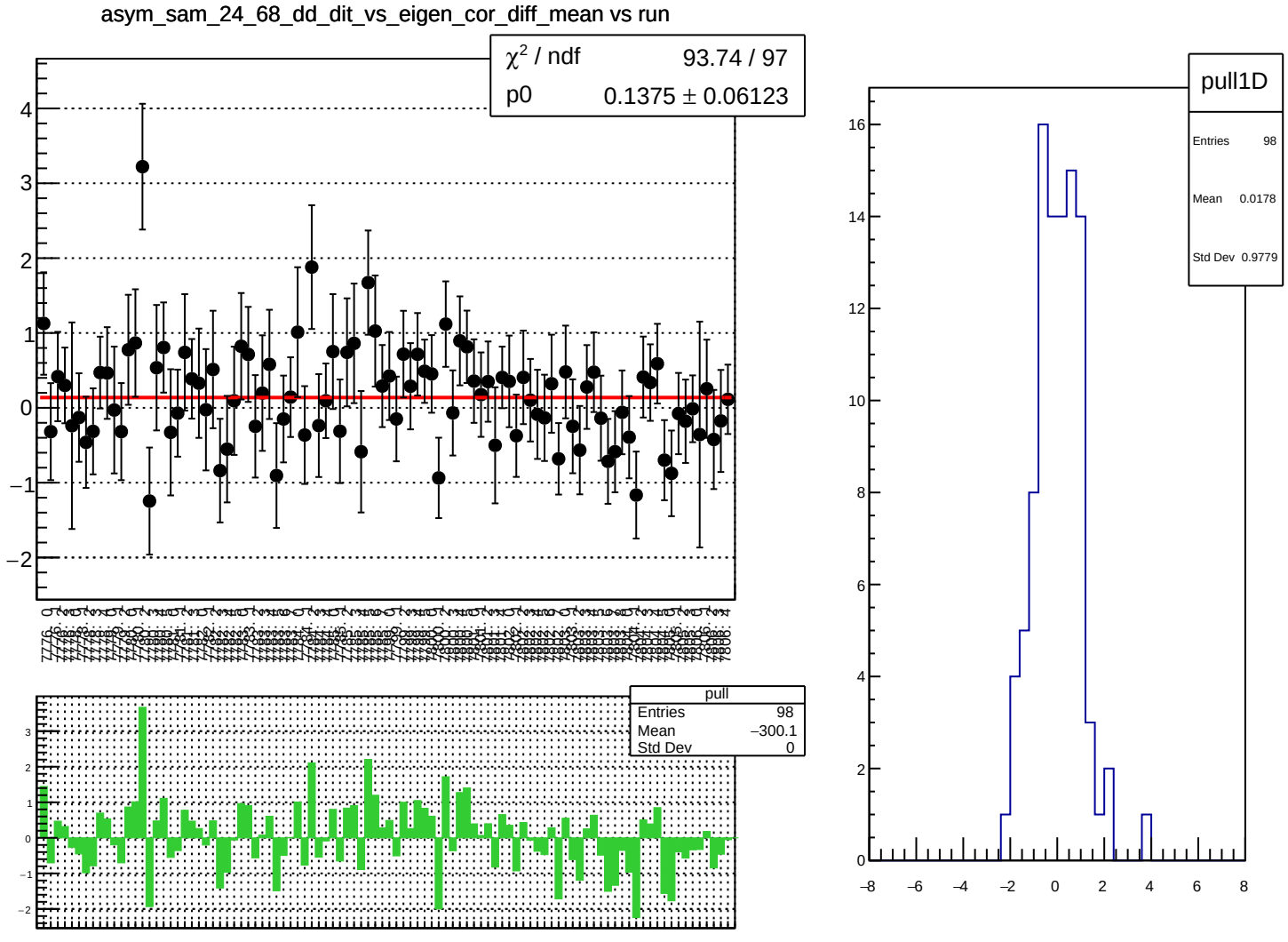

asym_sam_24_68_dd_rms vs run
χ² / ndf 3794 / 97
p0 2893 ± 2.077
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500

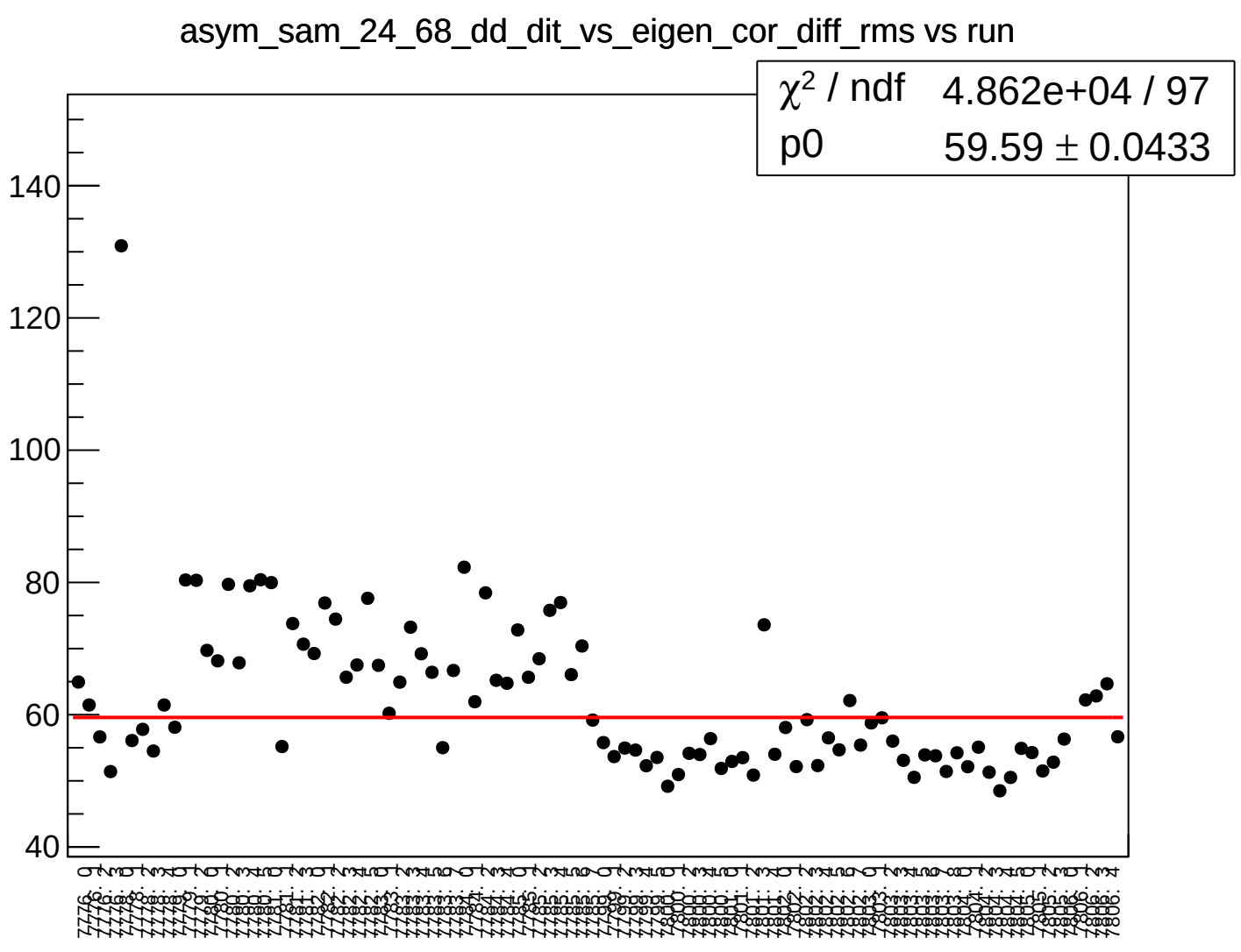

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.85 / 97
p0 6.099e−13 ± 4.262e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 98
Mean −12.54
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.07282
Std Dev 0.8591
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

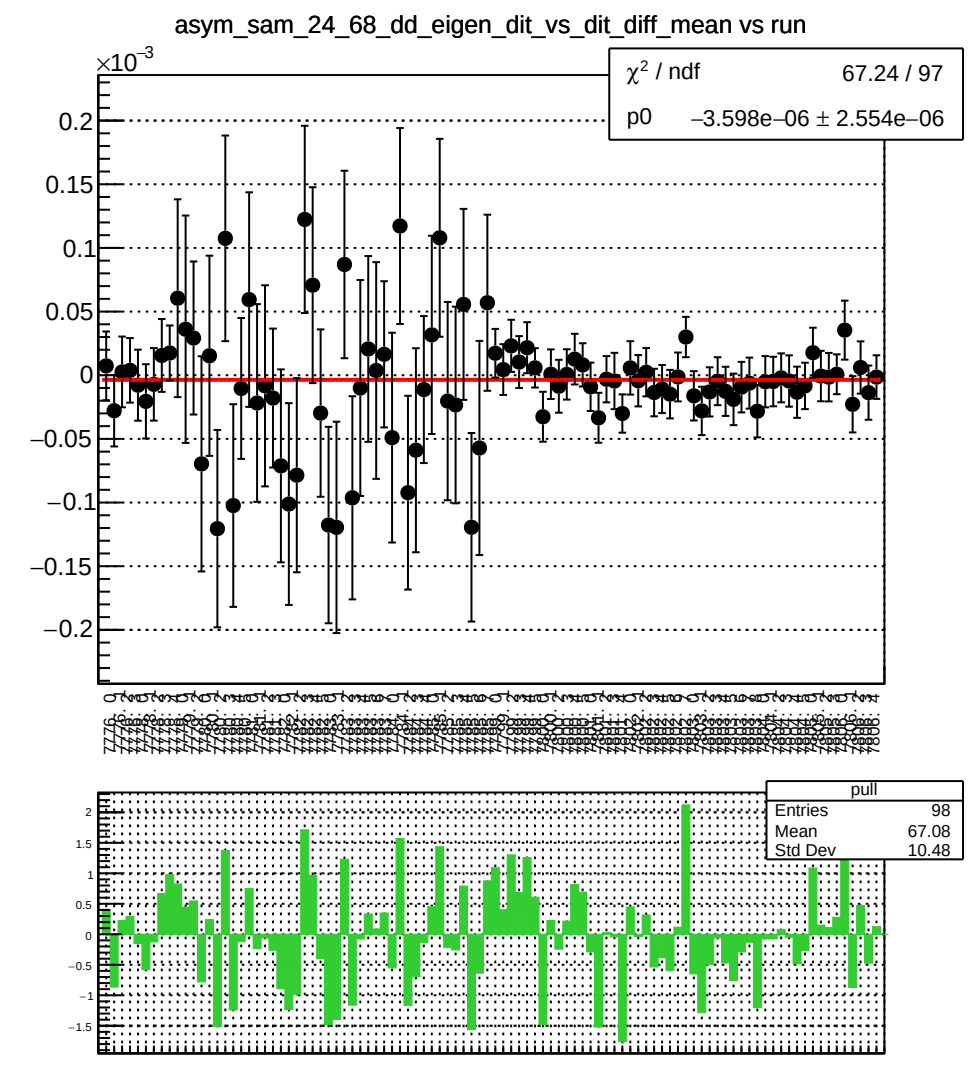

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 97
p0 2.889e−10 ± 3.014e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

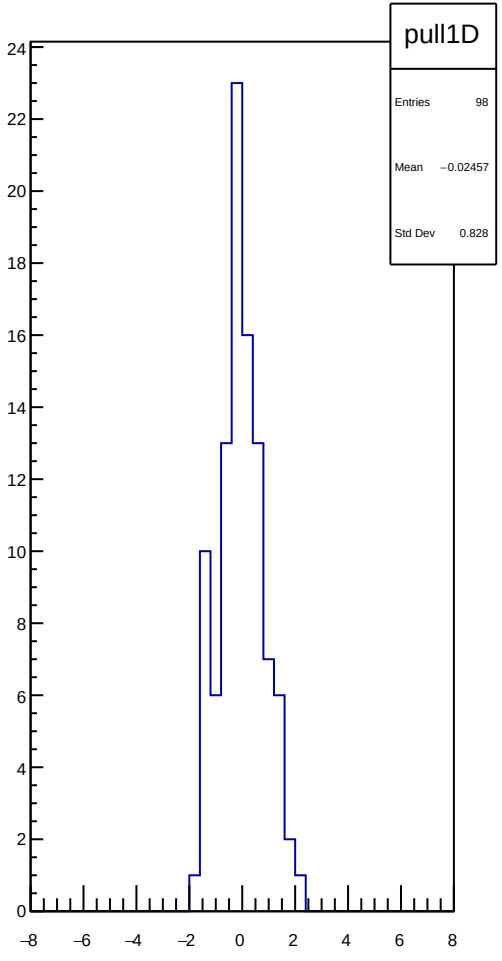

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.74 / 97
p0 0.1375 ± 0.06123
pull
Entries 98
Mean −300.1
Std Dev 0
pull1D
Entries 98
Mean 0.0178
Std Dev 0.9779

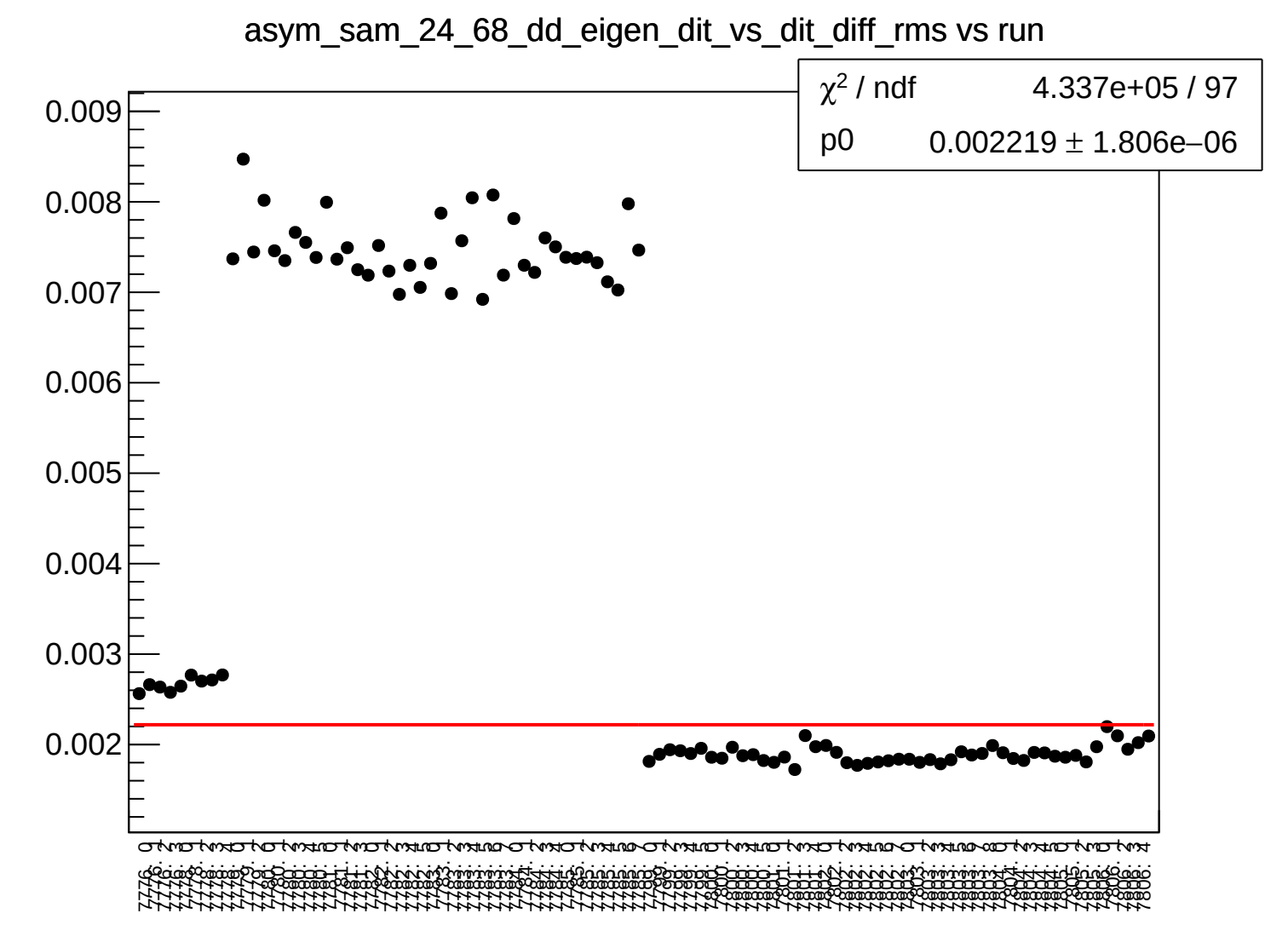

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.862e+04 / 97
p0 59.59 ± 0.0433
140
120
100
80
60
40

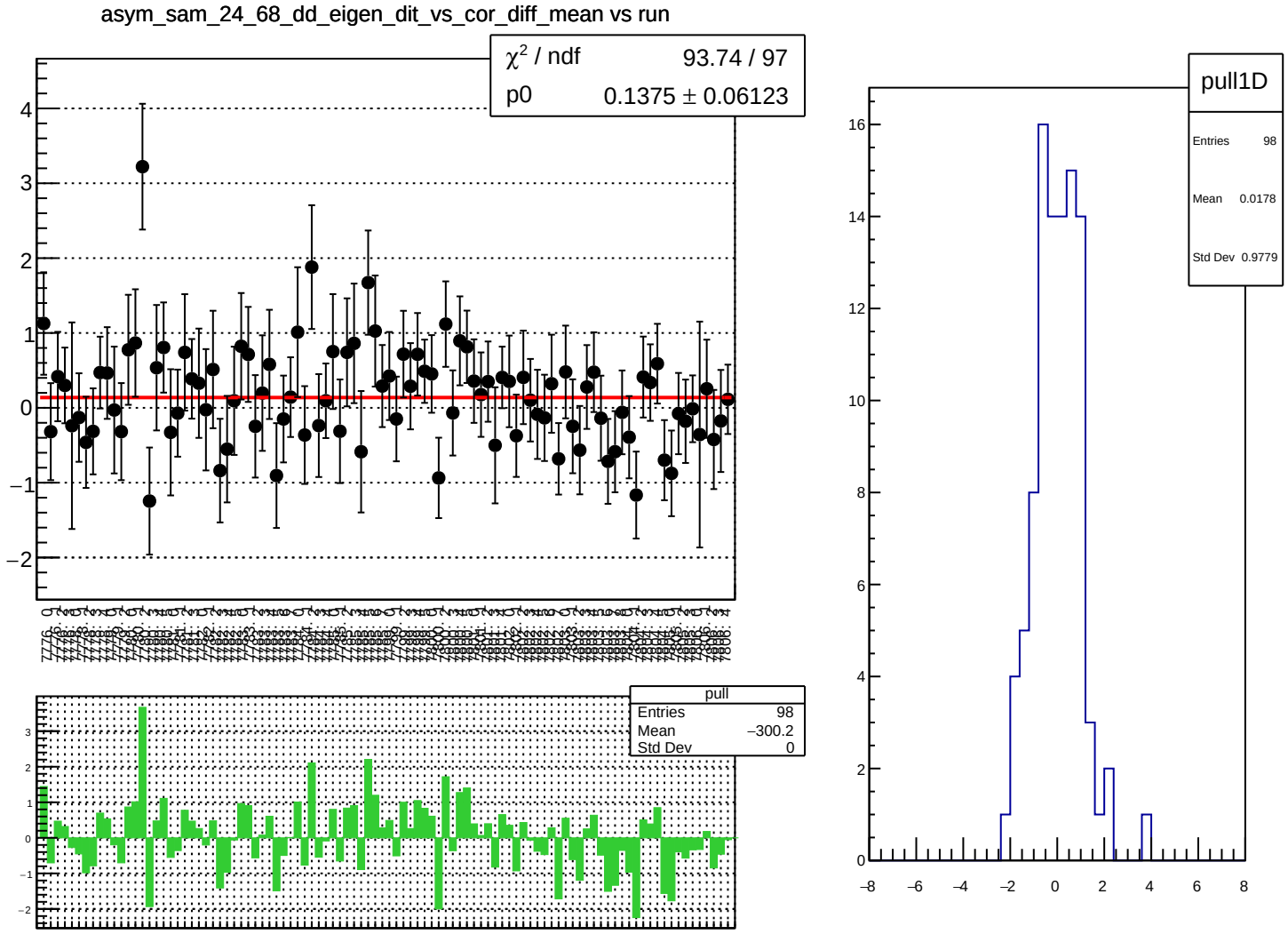

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.74 / 97
p0 0.1375 ± 0.06123
pull
Entries 98
Mean −300.1
Std Dev 0
pull1D
Entries 98
Mean 0.0178
Std Dev 0.9779

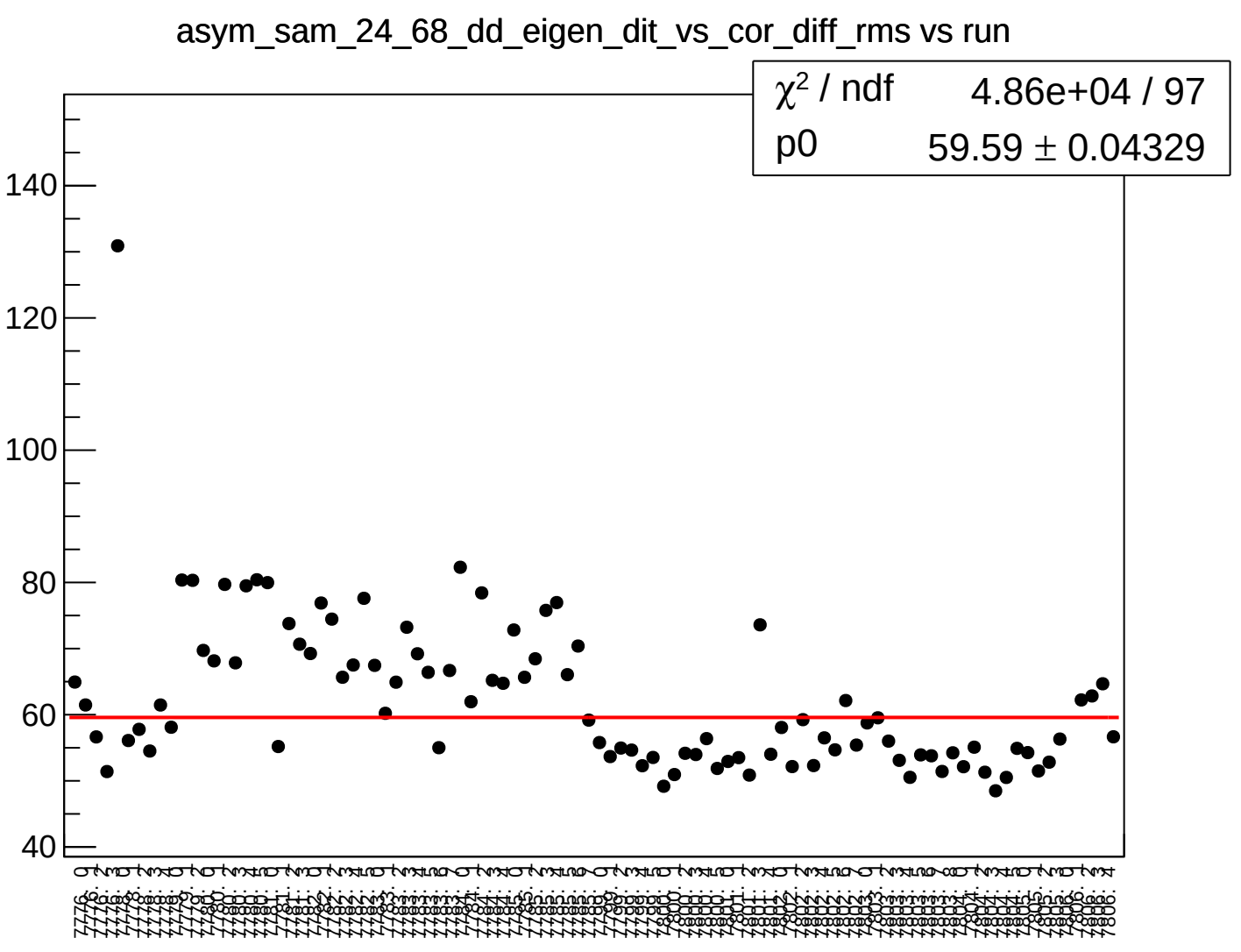

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.862e+04 / 97
p0 59.59 ± 0.0433
140
120
100
80
60
40

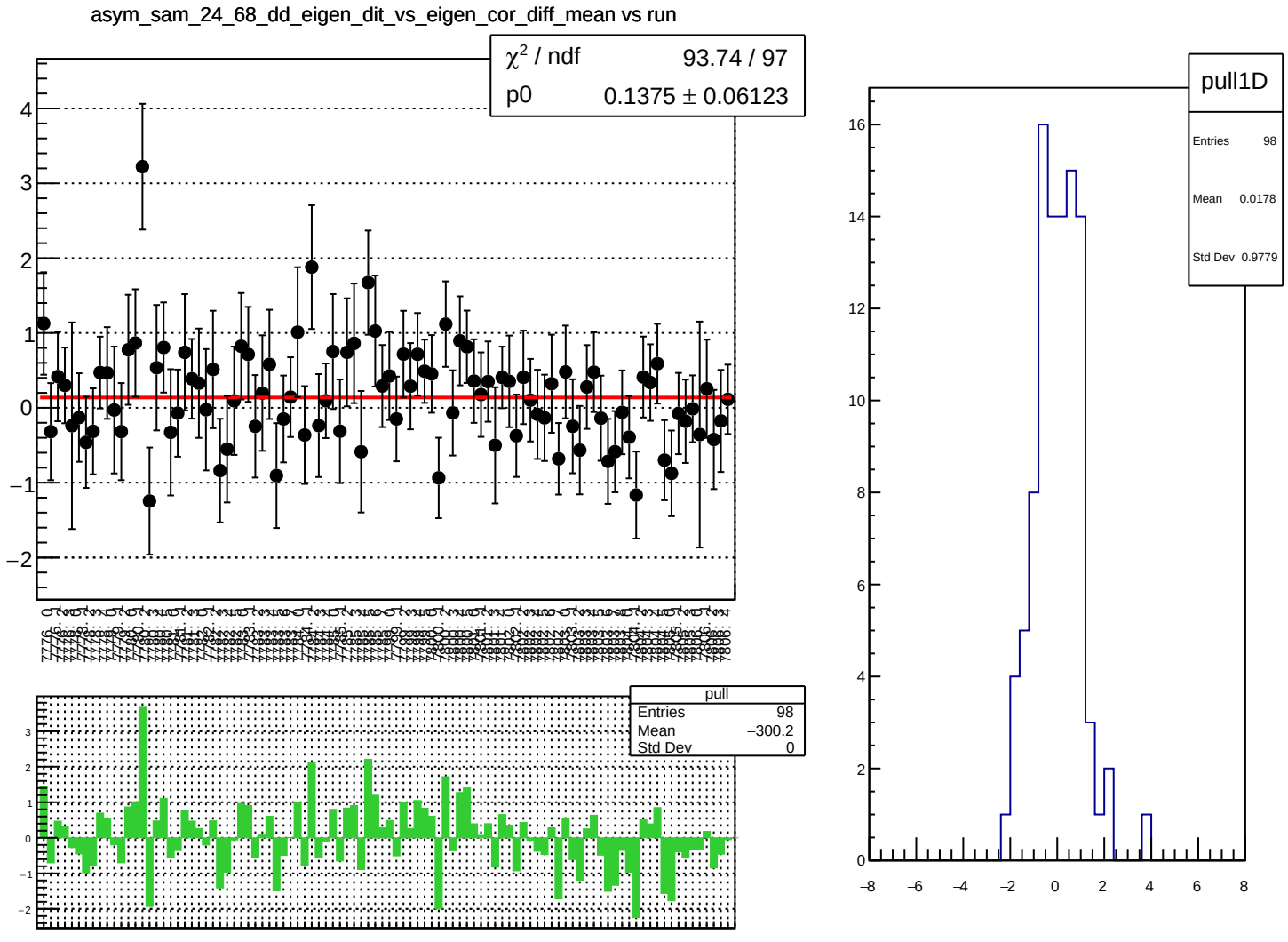

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.24 / 97
p0 −3.598e−06 ± 2.554e−06
pull
Entries 98
Mean 67.08
Std Dev 10.48

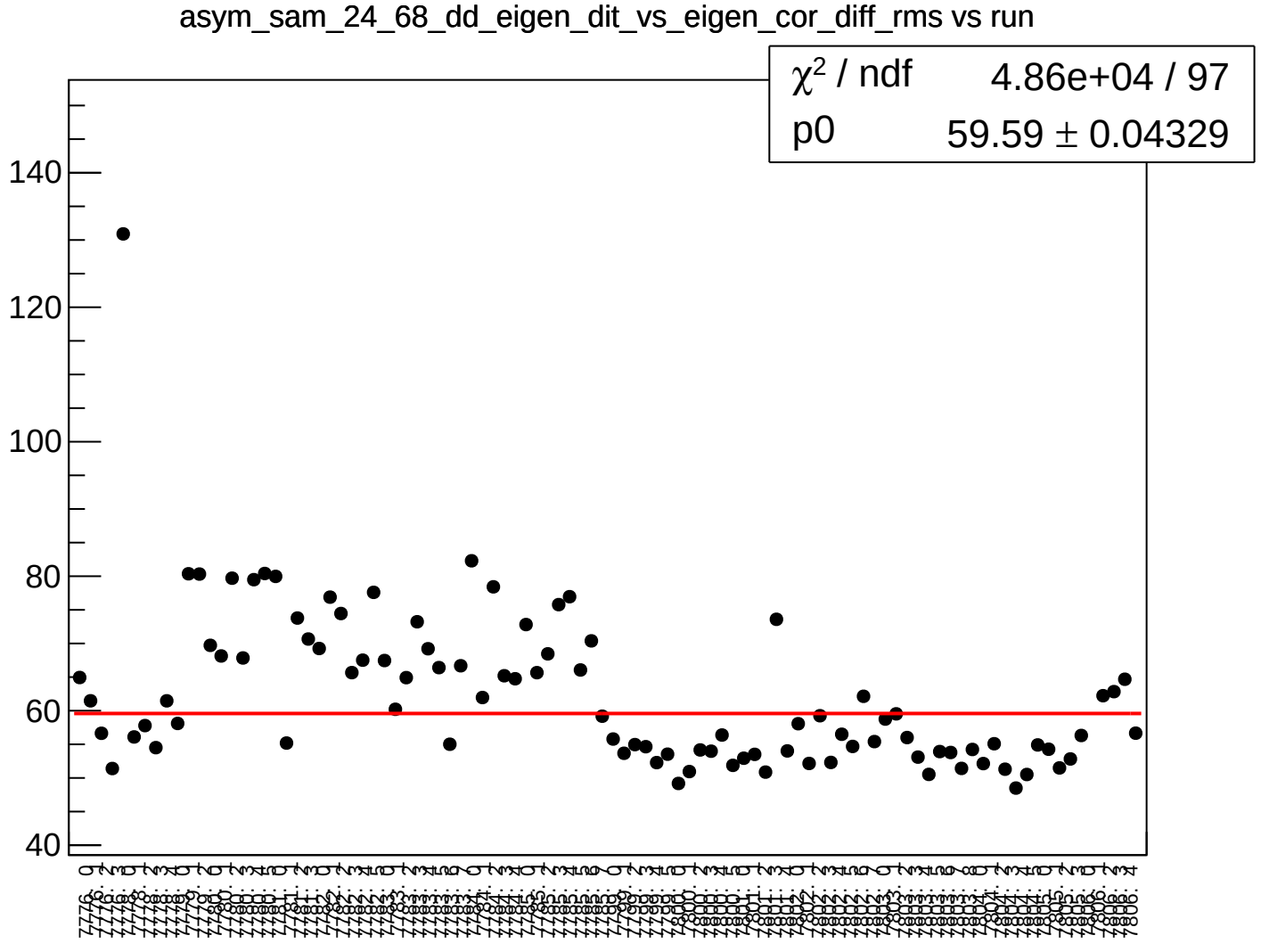

pull1D
Entries 98
Mean −0.02457
Std Dev 0.828

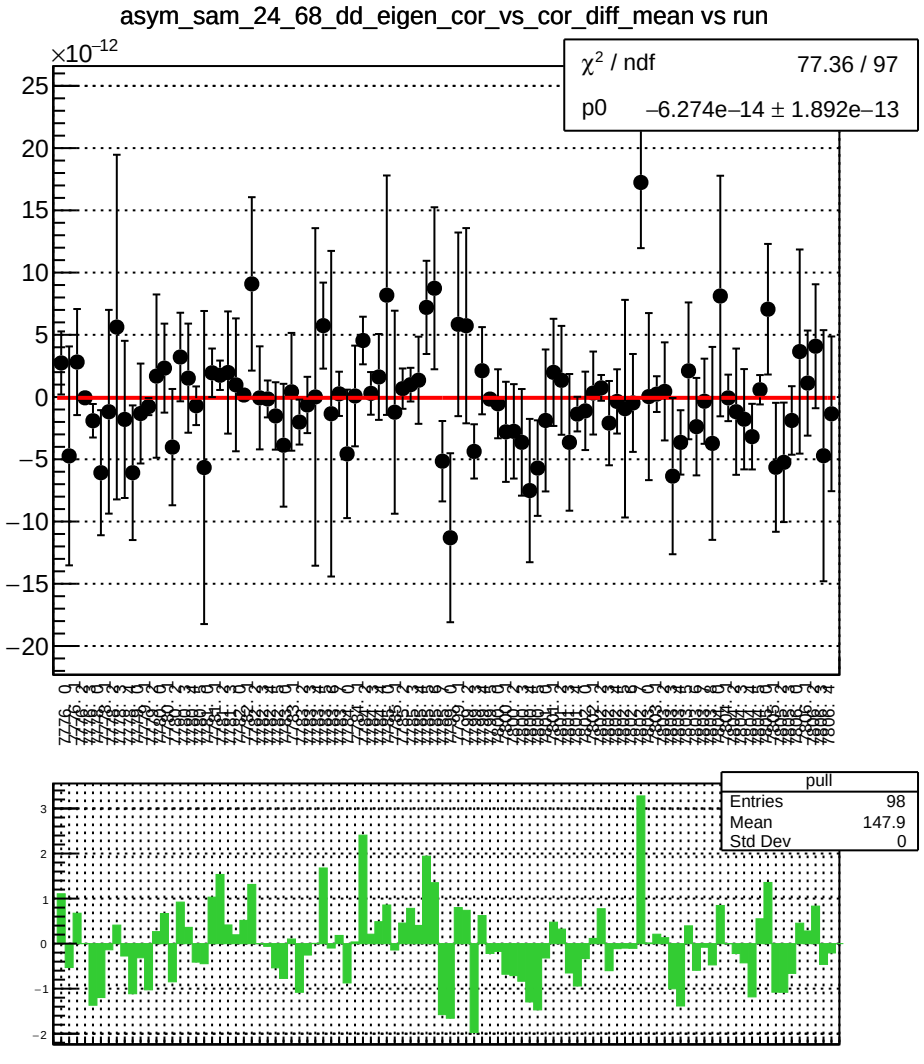

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.337e+05 / 97
p0 0.002219 ± 1.806e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

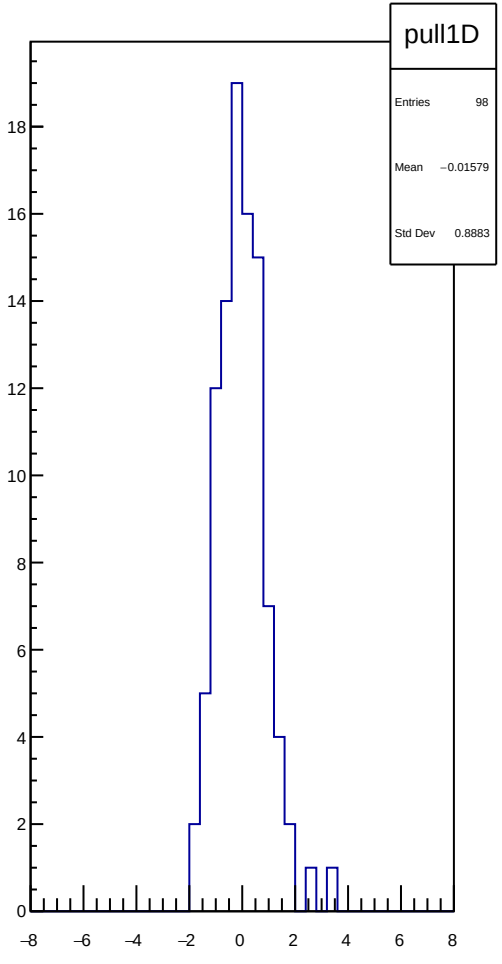

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.74 / 97
p0 0.1375 ± 0.06123
pull
Entries 98
Mean −300.2
Std Dev 0
pull1D
Entries 98
Mean 0.0178
Std Dev 0.9779

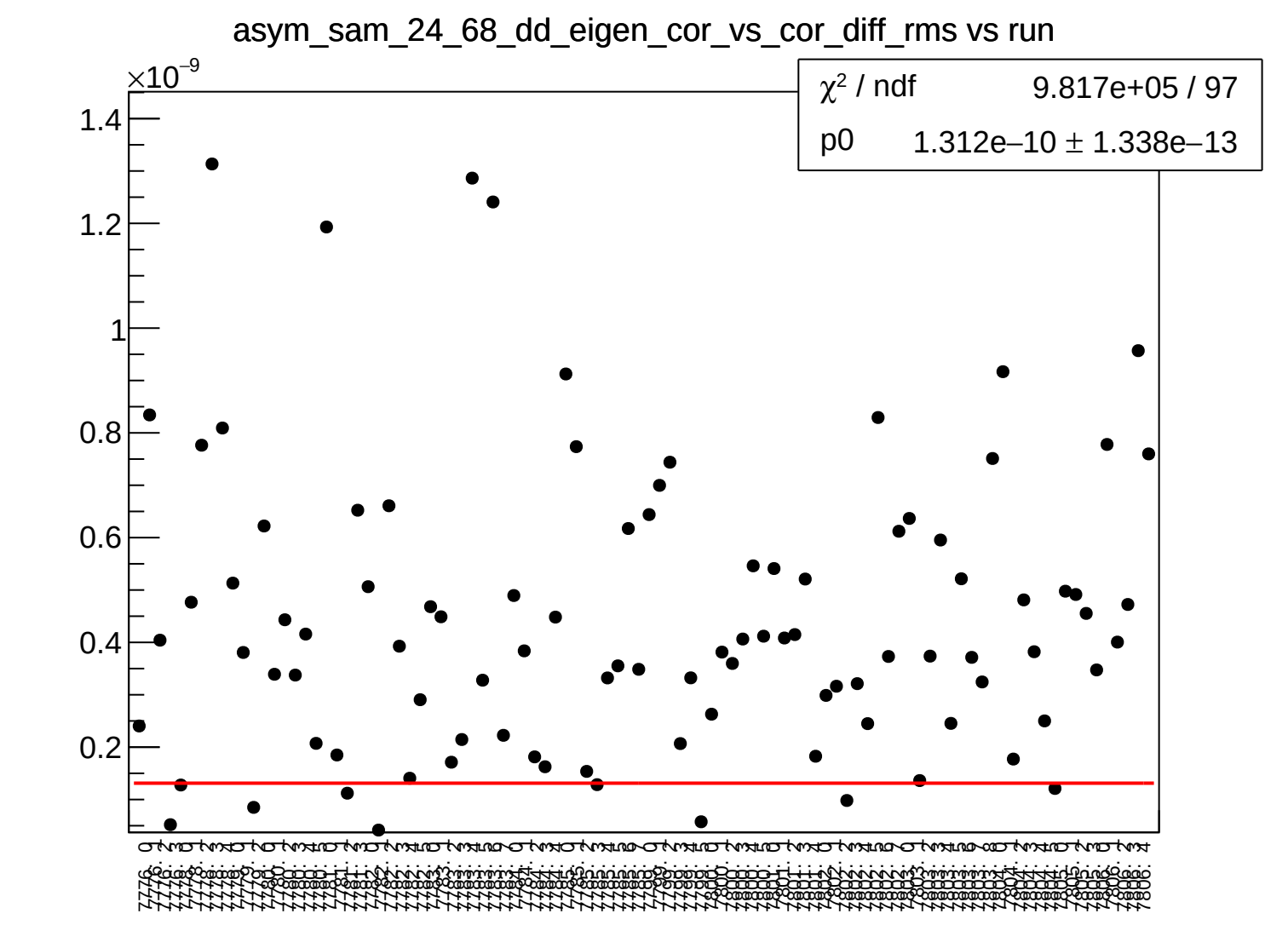

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.86e+04 / 97
p0 59.59 ± 0.04329
140
120
100
80
60
40

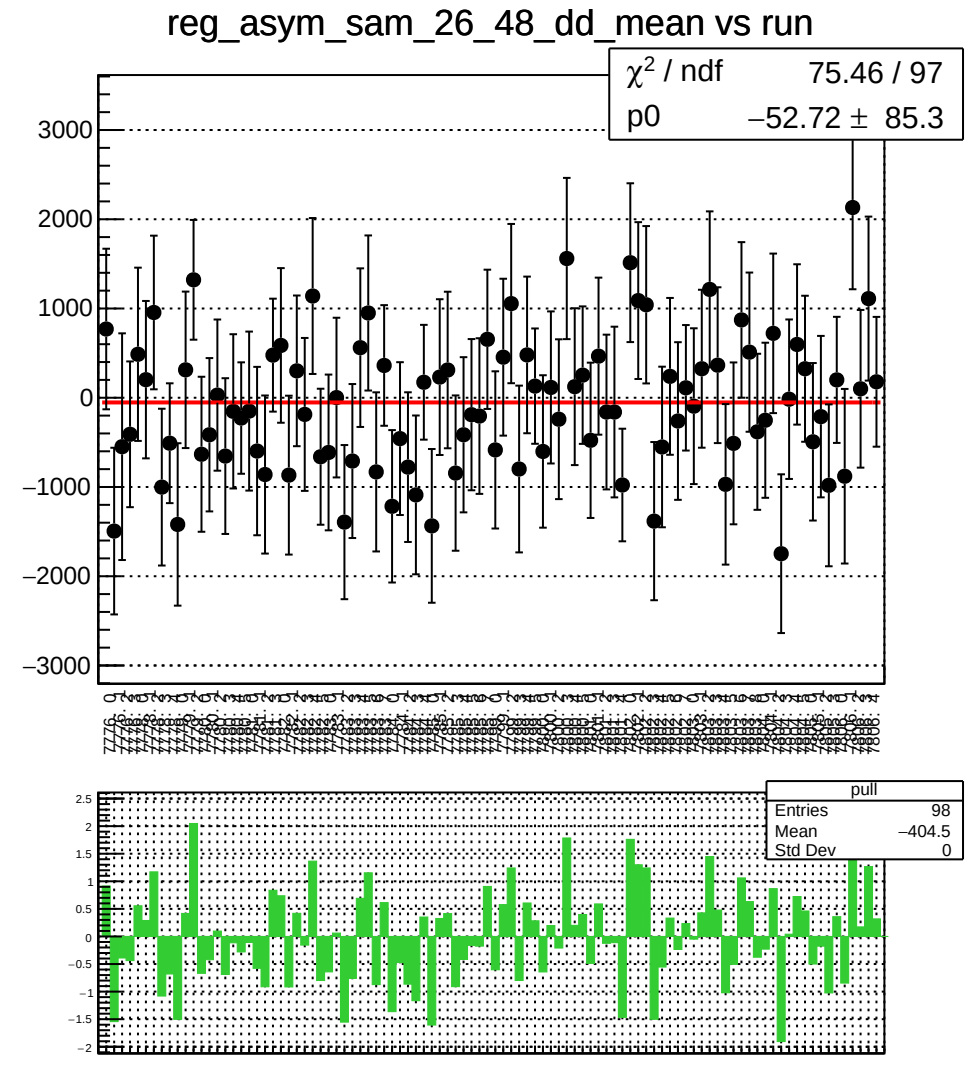

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.74 / 97
p0 0.1375 ± 0.06123
pull
Entries 98
Mean −300.2
Std Dev 0
pull1D
Entries 98
Mean 0.0178
Std Dev 0.9779

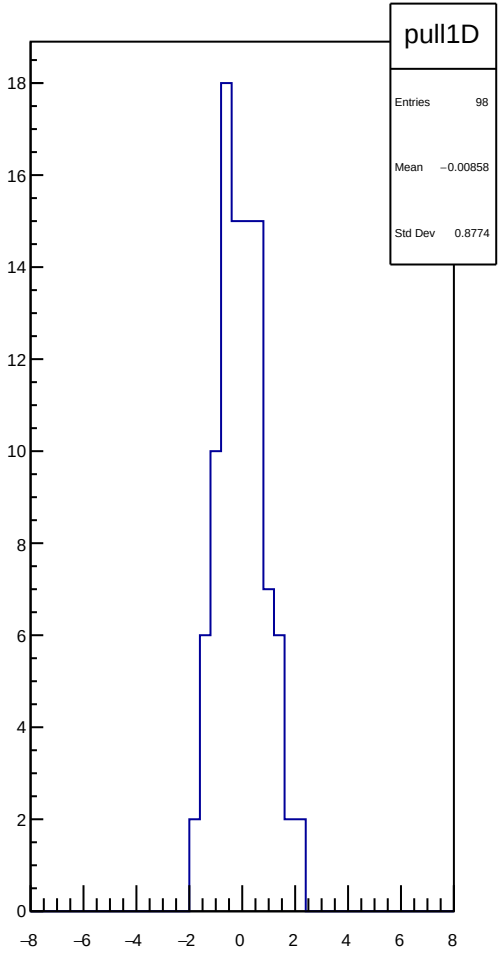

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.86e+04 / 97
p0 59.59 ± 0.04329
140
120
100
80
60
40

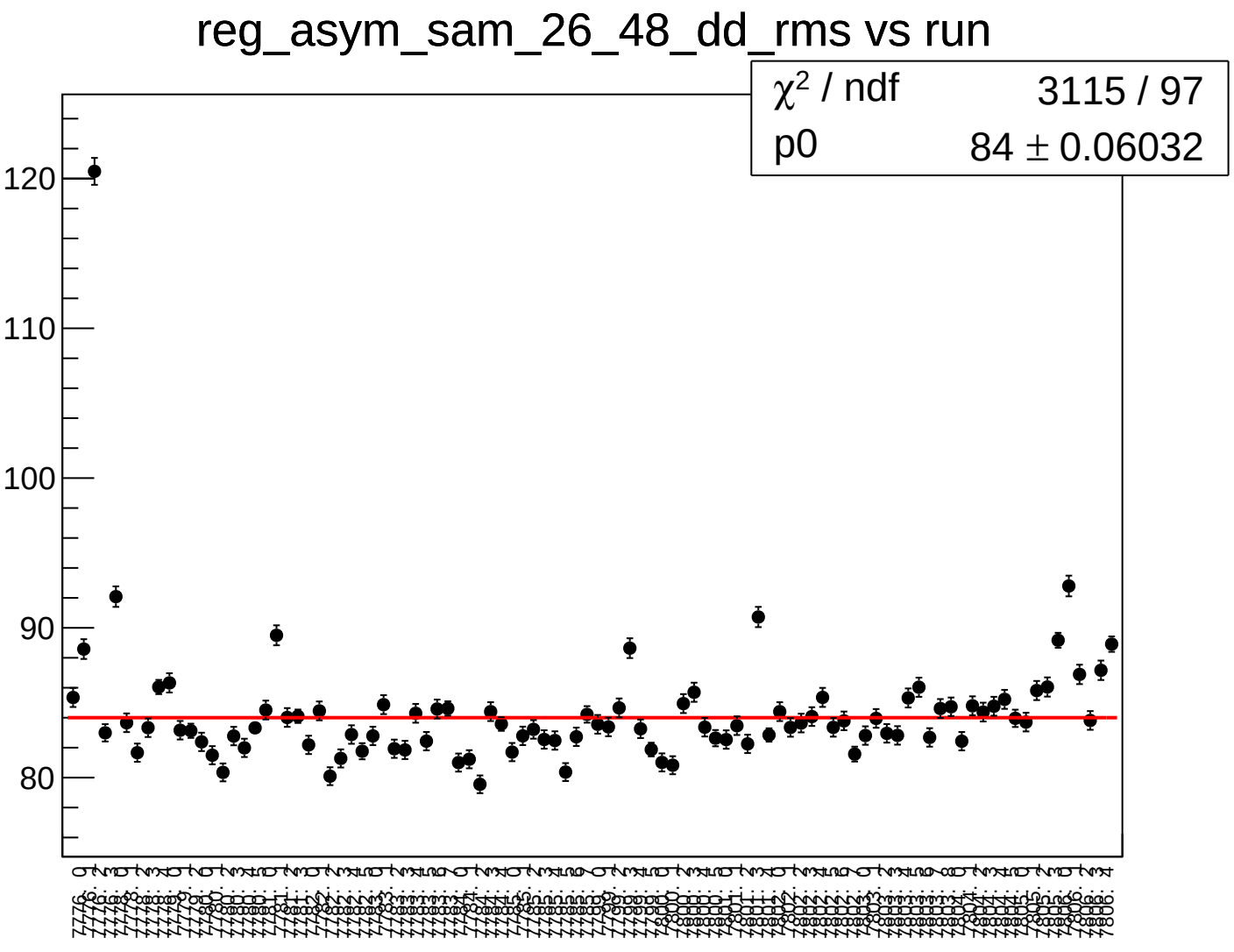

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.36 / 97
p0 −6.274e−14 ± 1.892e−13
pull
Entries 98
Mean 147.9
Std Dev 0

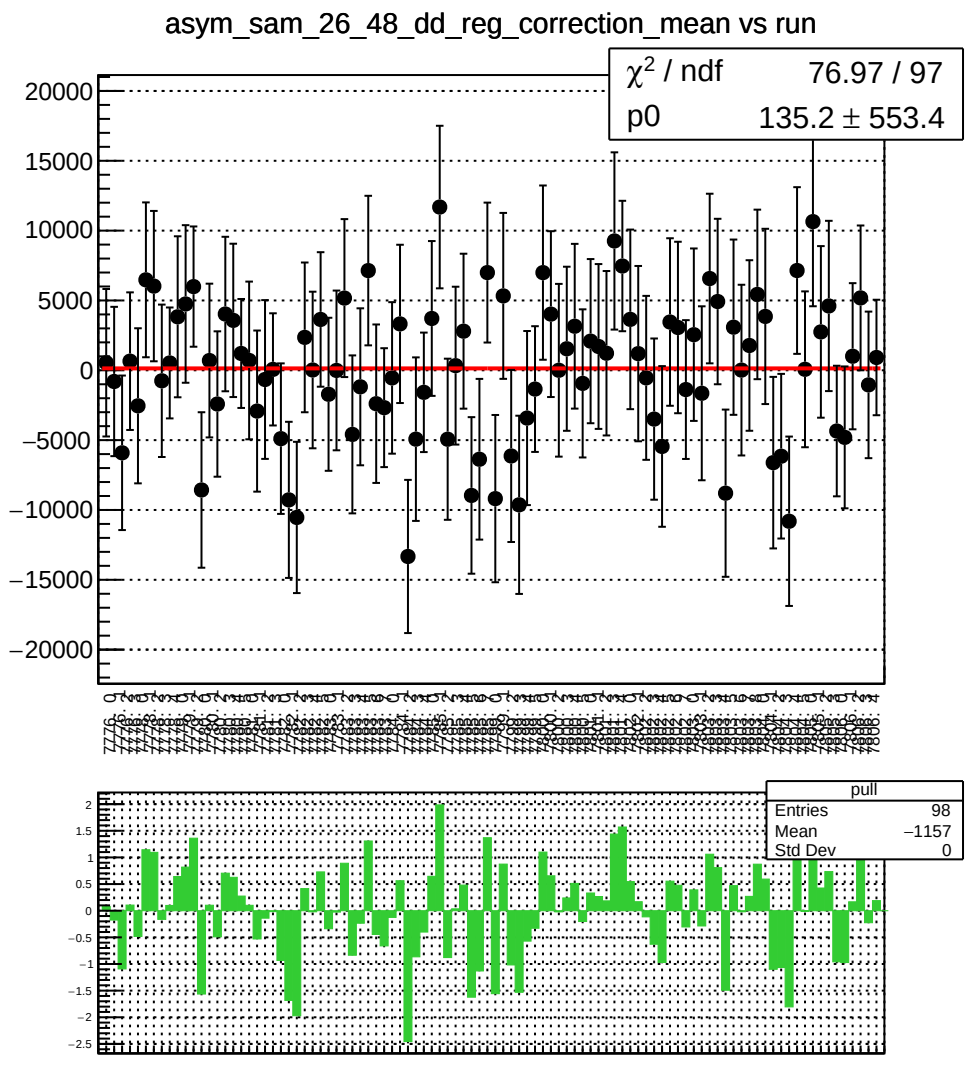

pull1D
Entries 98
Mean −0.01579
Std Dev 0.8883

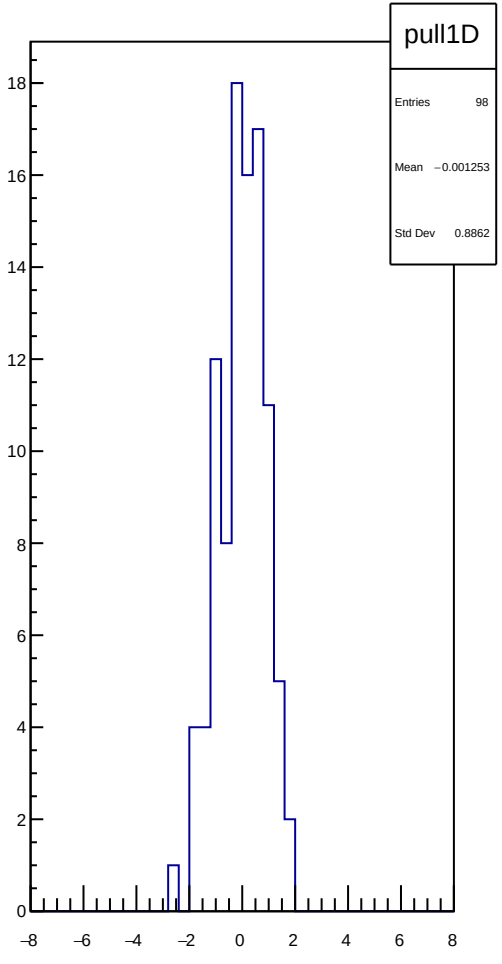

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 9.817e+05 / 97
p0 1.312e−10 ± 1.338e−13

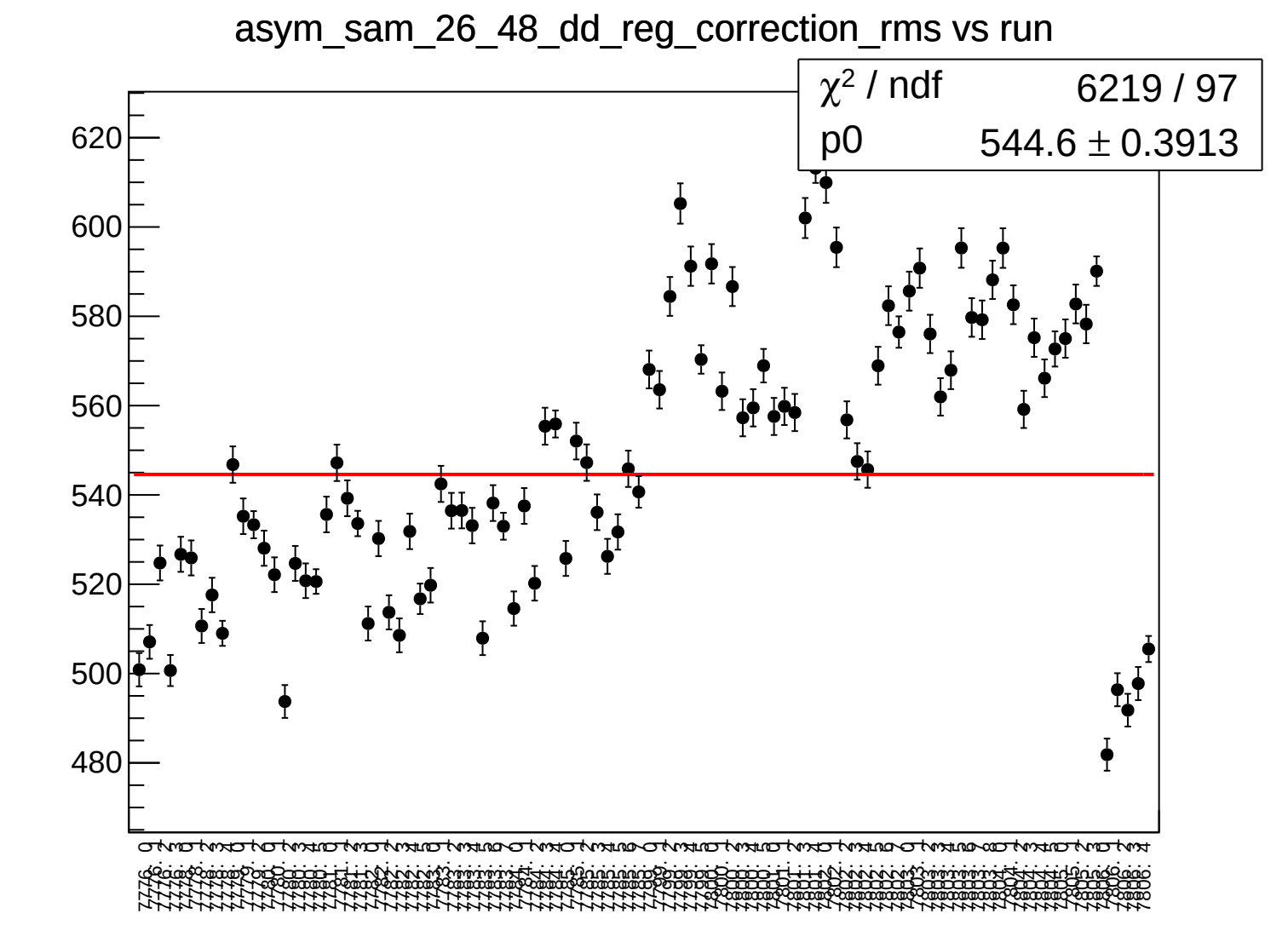

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 75.46 / 97
p0 −52.72 ± 85.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean −404.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

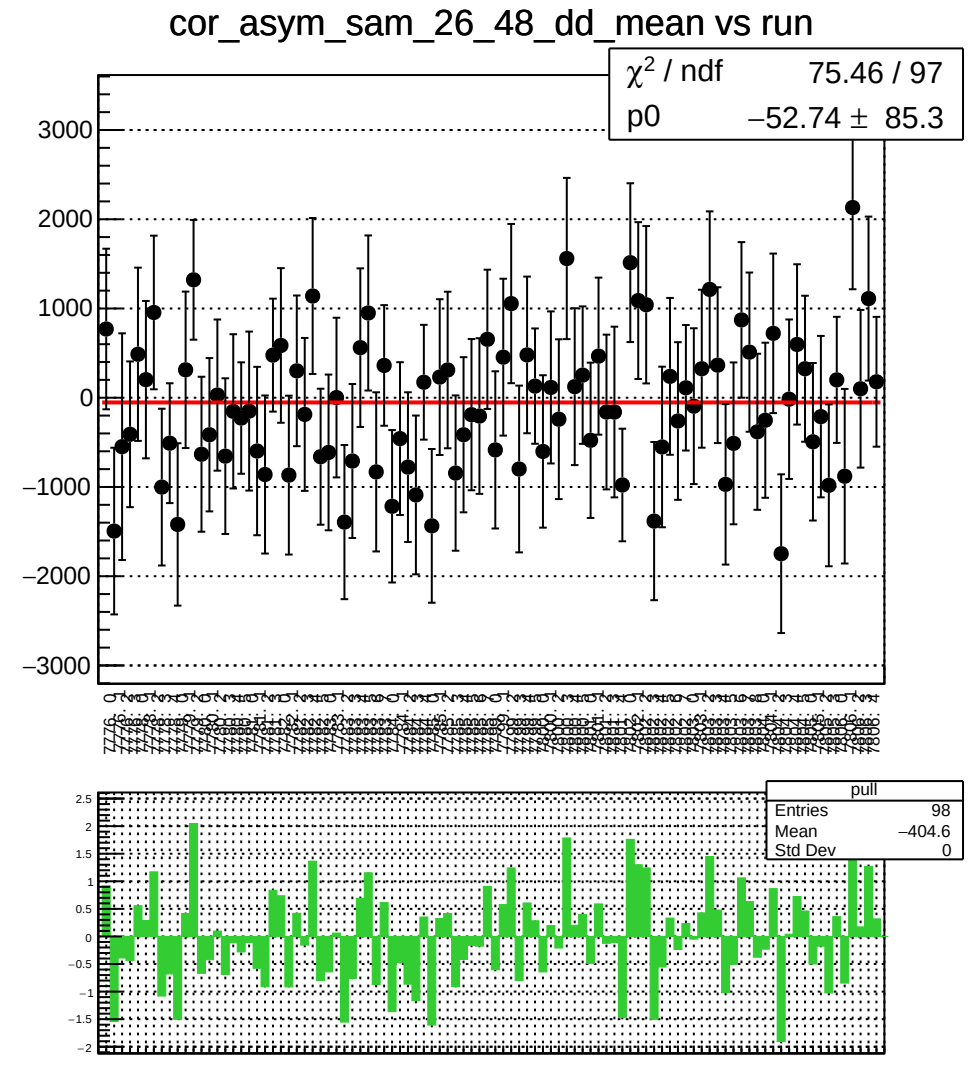

pull1D
Entries 98
Mean −0.00858
Std Dev 0.8774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

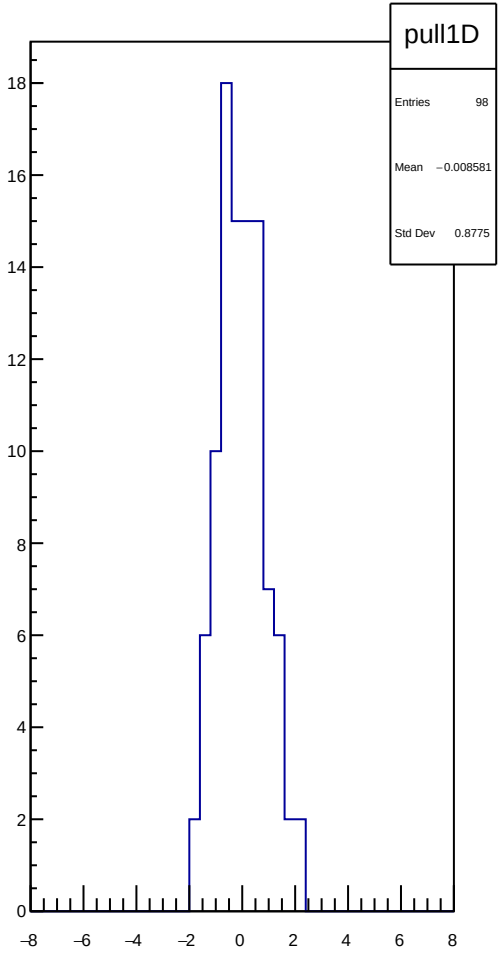

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 3115 / 97
p0 84 ± 0.06032
120
110
100
90
80

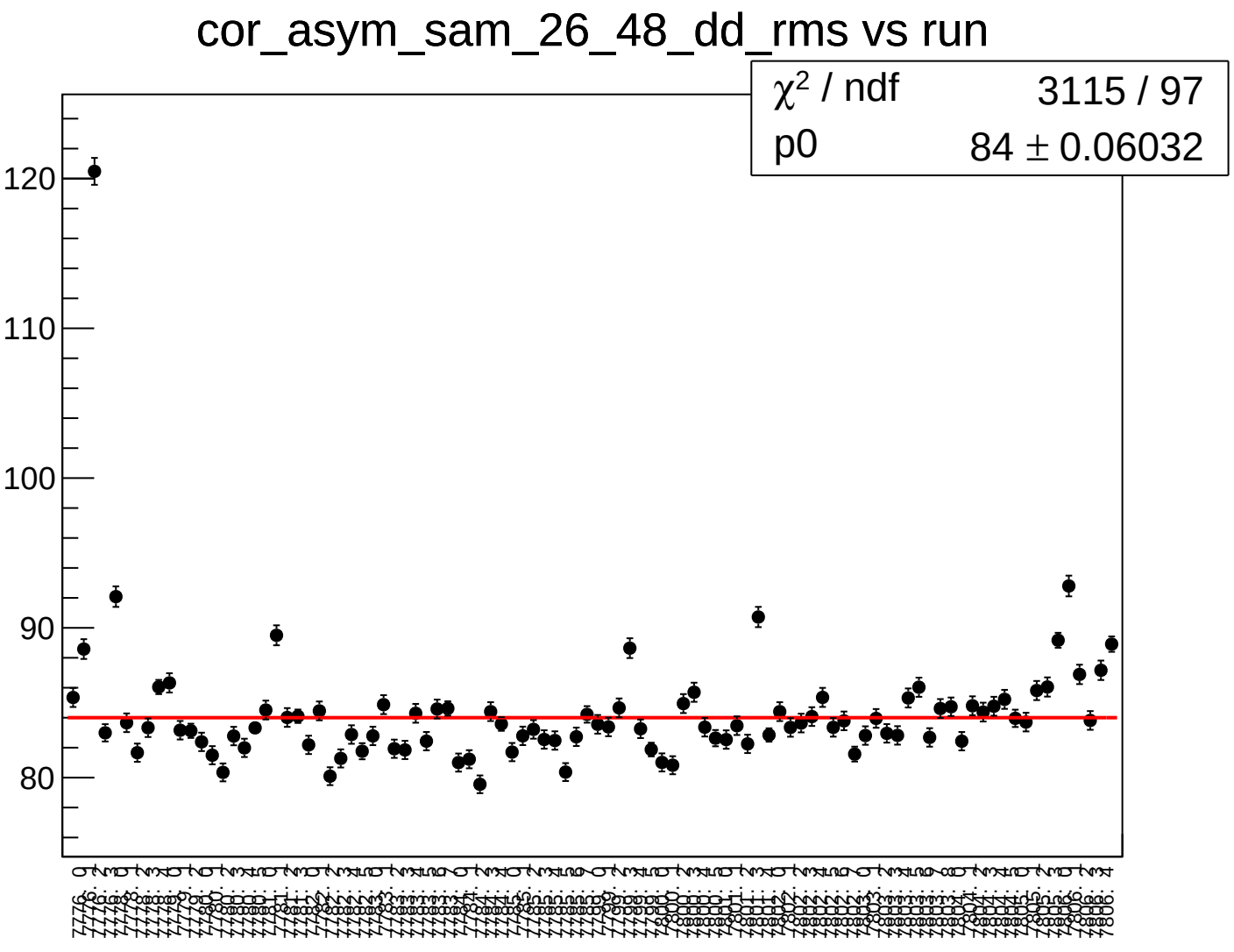

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 76.97 / 97
p0 135.2 ± 553.4
pull
Entries 98
Mean −1157
Std Dev 0

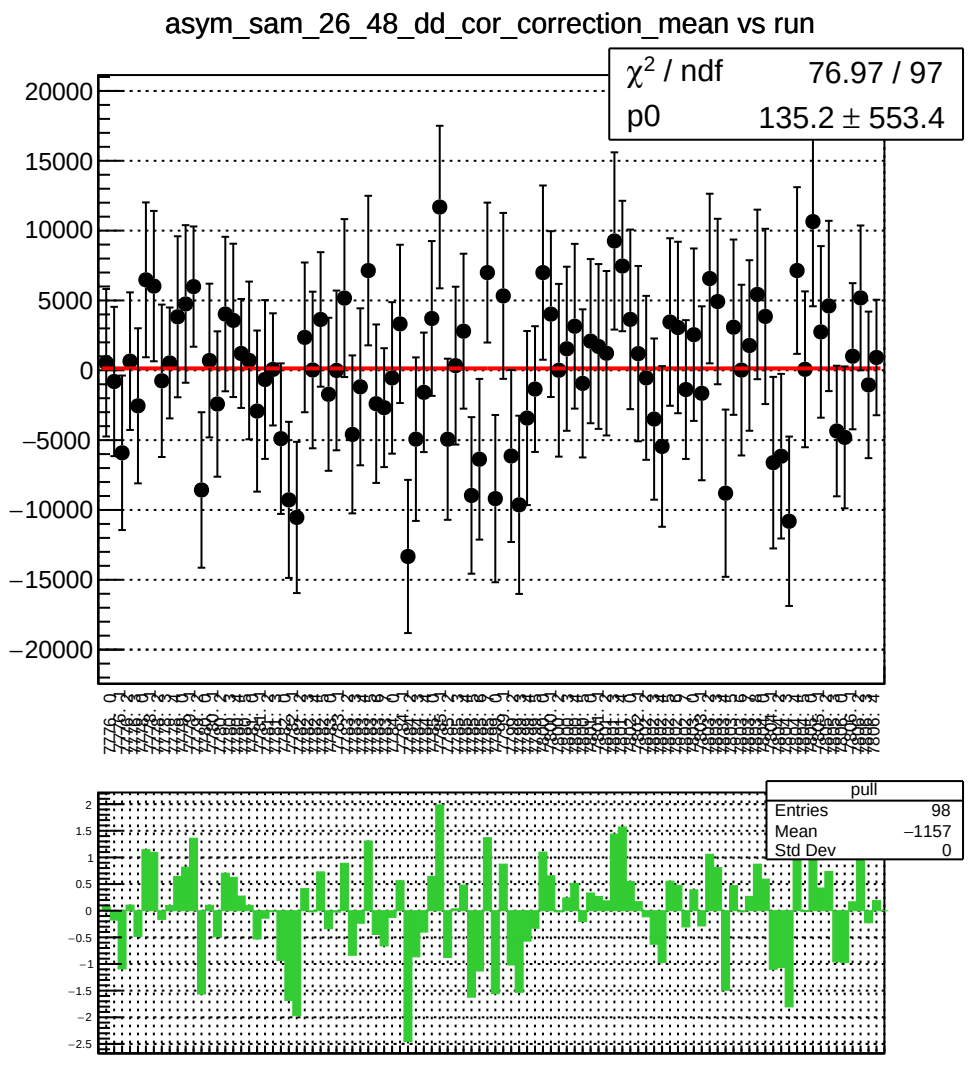

pull1D
Entries 98
Mean −0.001253
Std Dev 0.8862

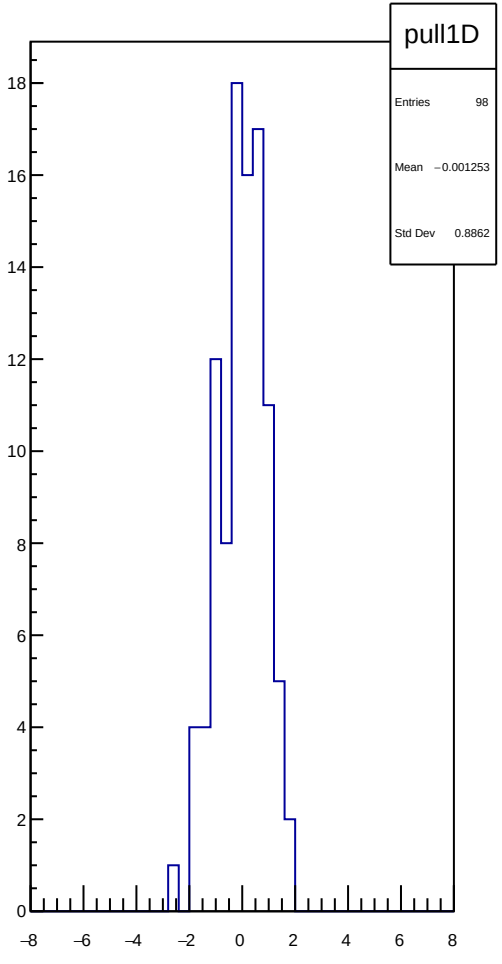

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 6219 / 97
p0 544.6 ± 0.3913
620
600
580
560
540
520
500
480

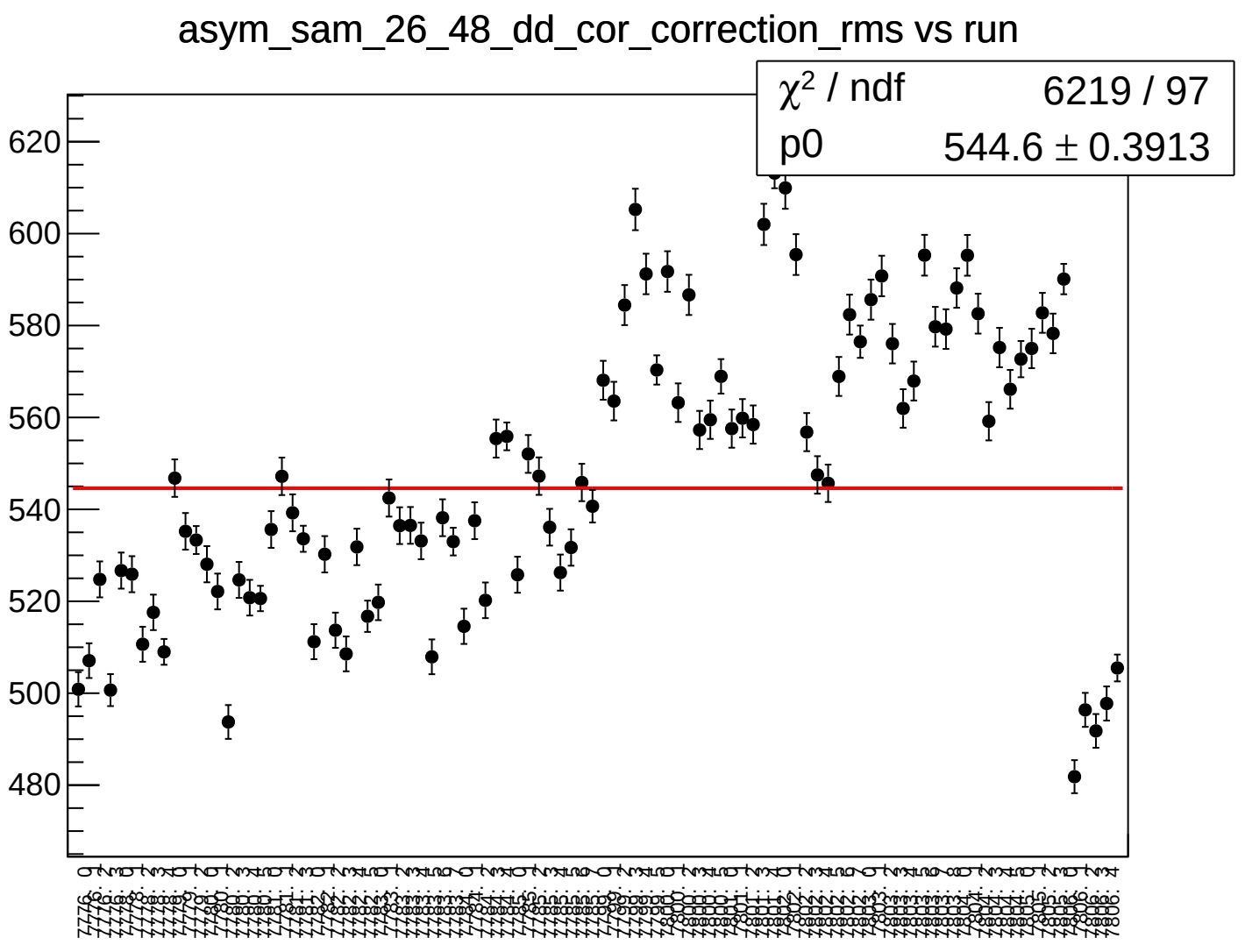

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 75.46 / 97
p0 −52.74 ± 85.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean −404.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

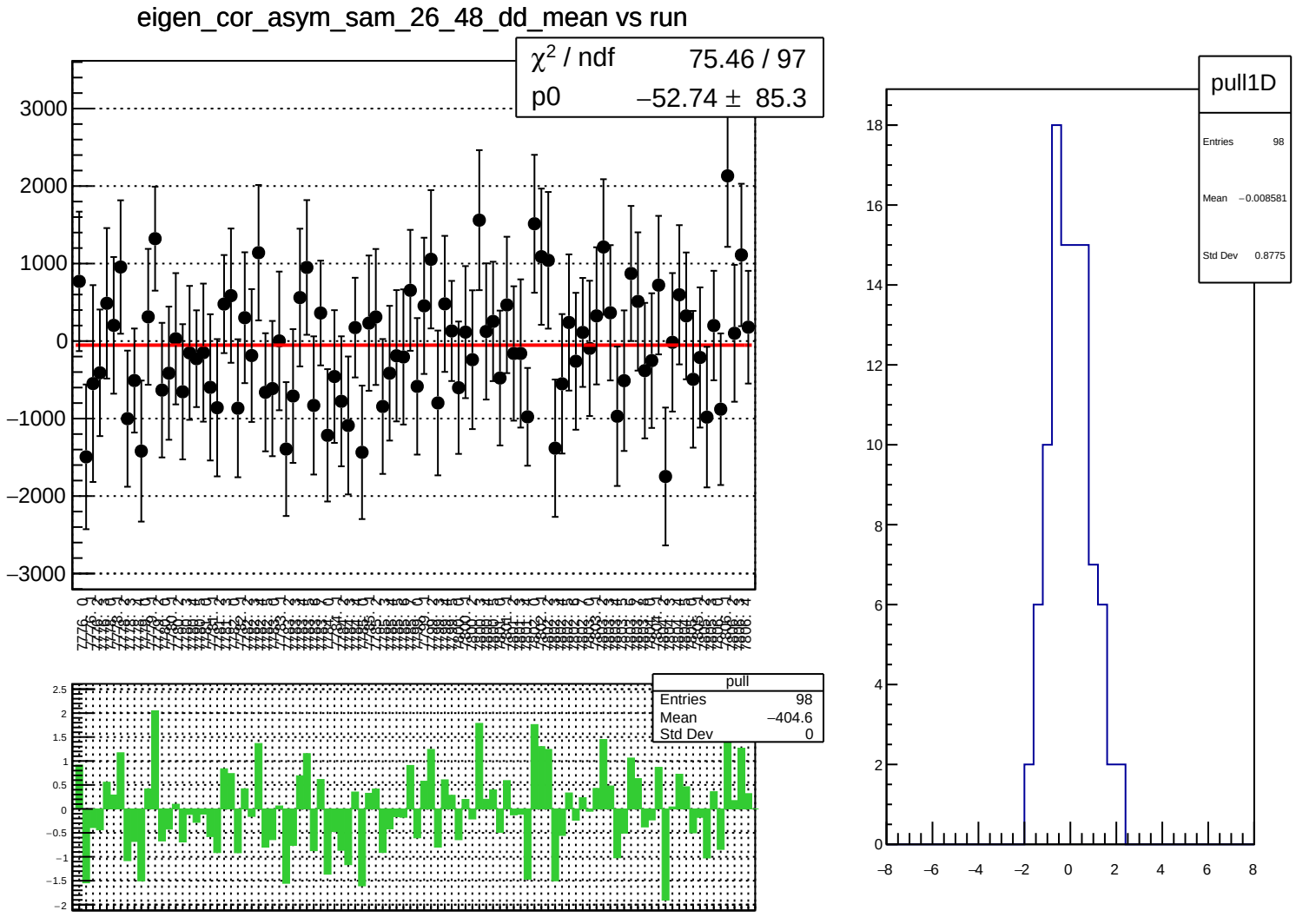

pull1D
Entries 98
Mean −0.008581
Std Dev 0.8775
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

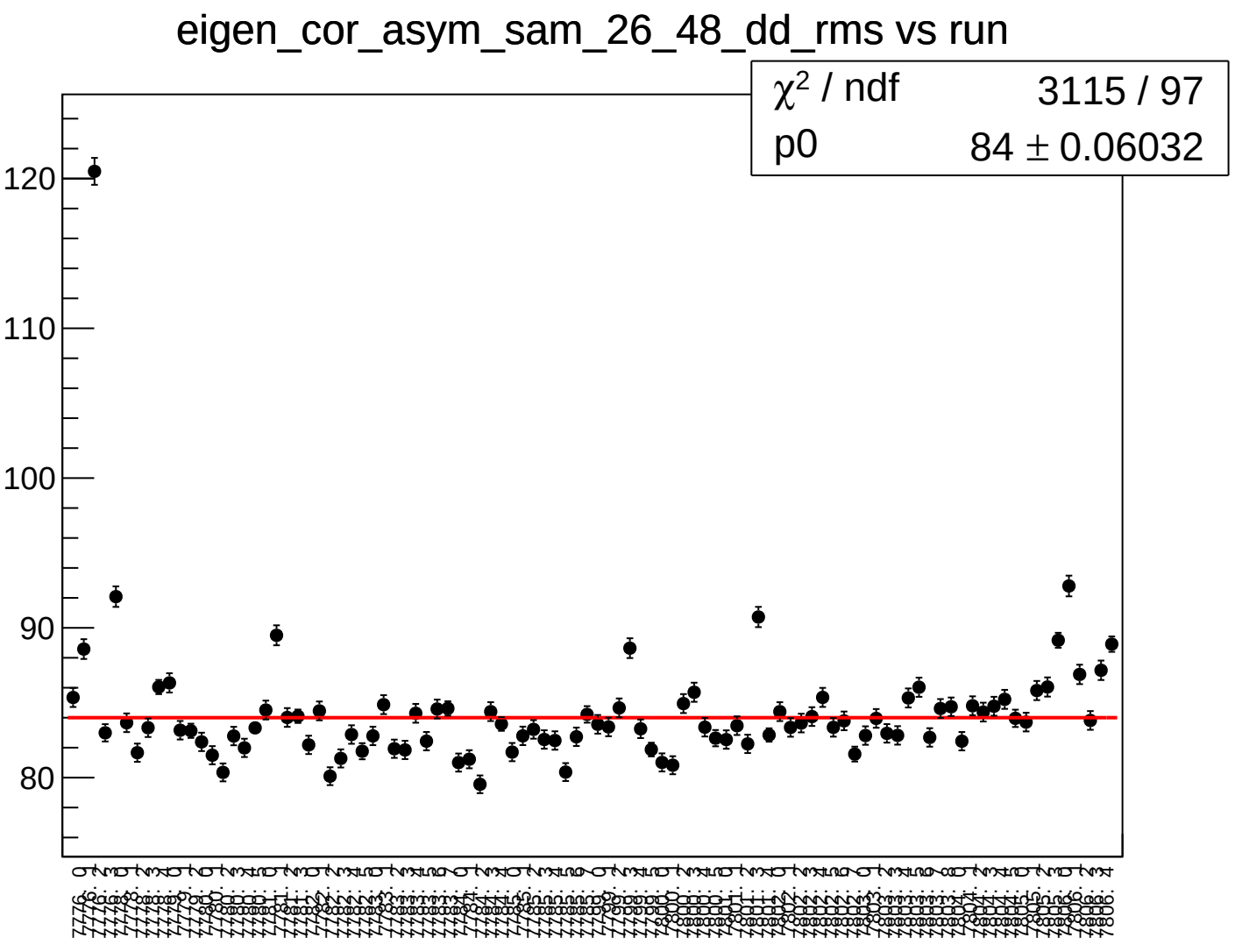

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 3115 / 97
p0 84 ± 0.06032
120
110
100
90
80

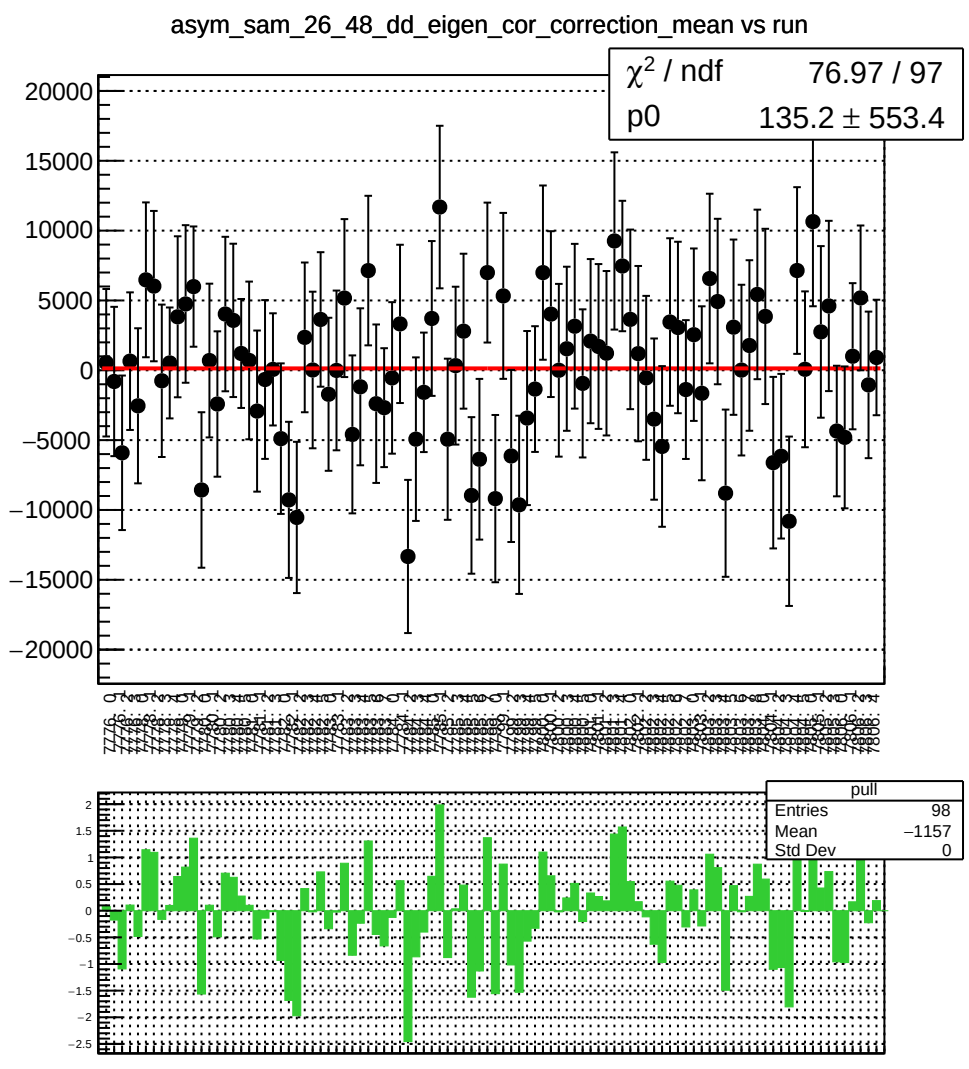

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 76.97 / 97
p0 135.2 ± 553.4
pull
Entries 98
Mean −1157
Std Dev 0

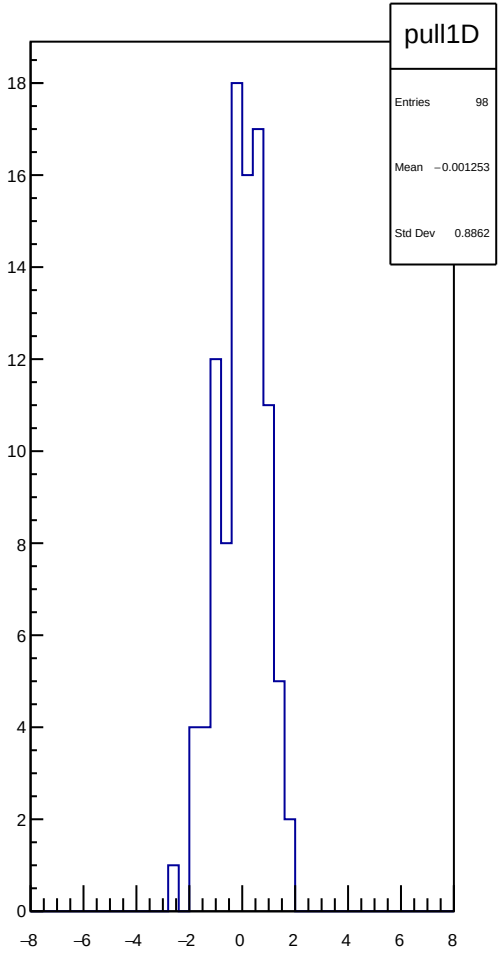

pull1D
Entries 98
Mean −0.001253
Std Dev 0.8862

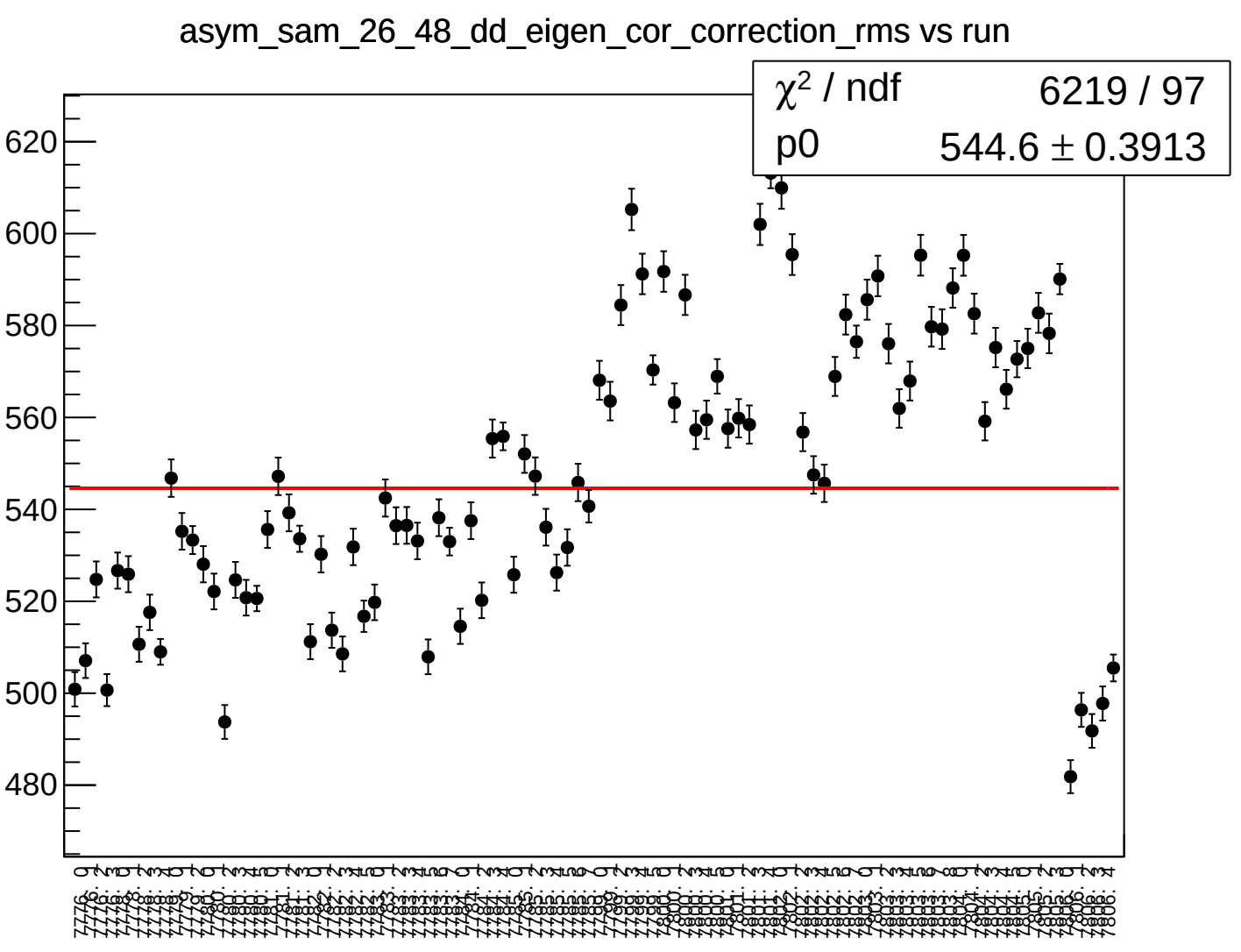

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 6219 / 97
p0 544.6 ± 0.3913
620
600
580
560
540
520
500
480

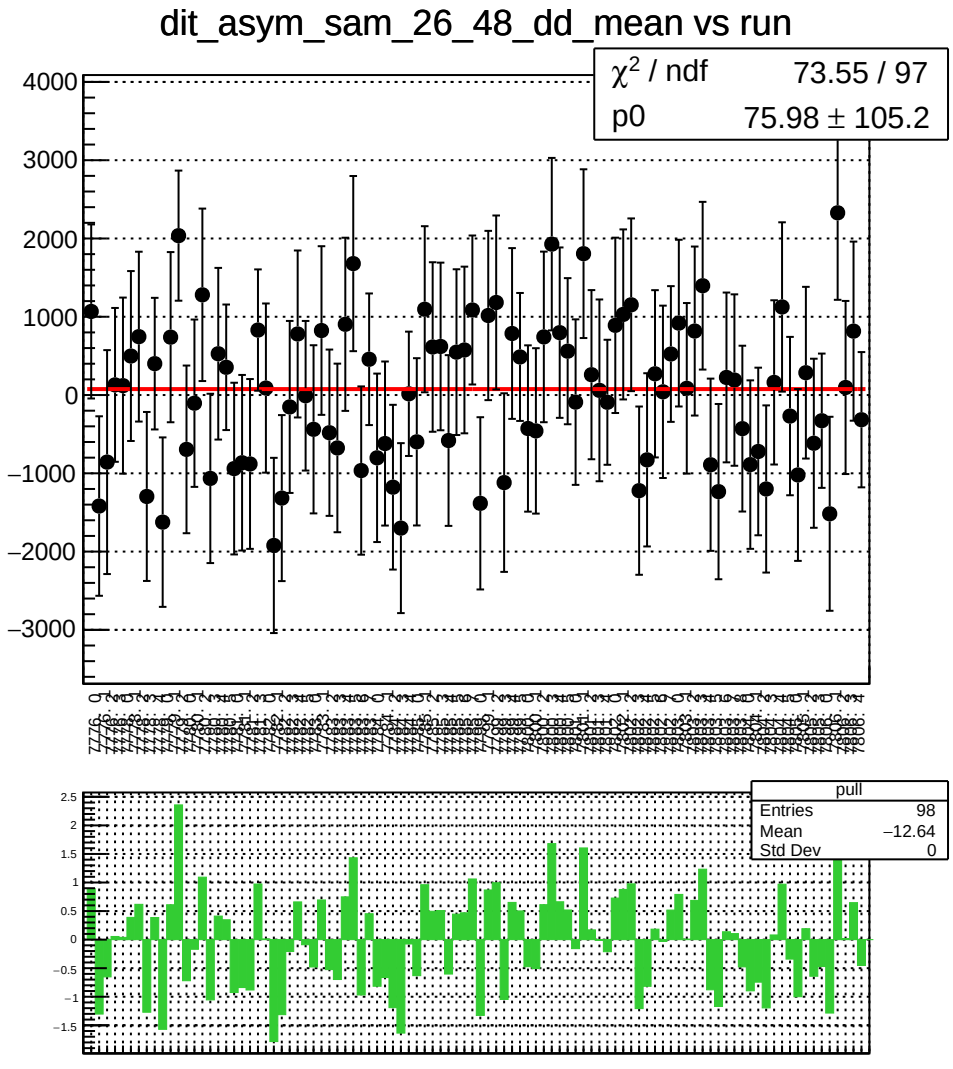

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 75.46 / 97
p0 −52.74 ± 85.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean −404.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.008581
Std Dev 0.8775
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

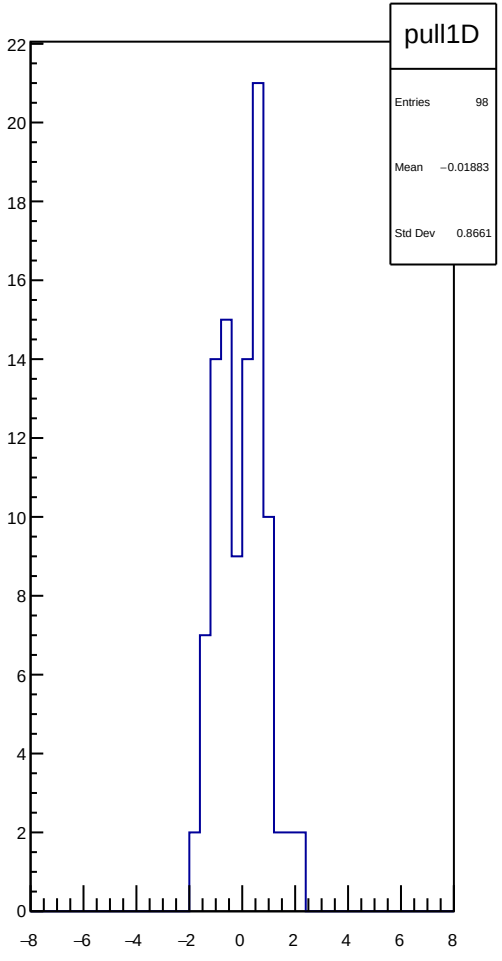

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 3115 / 97
p0 84 ± 0.06032
120
110
100
90
80

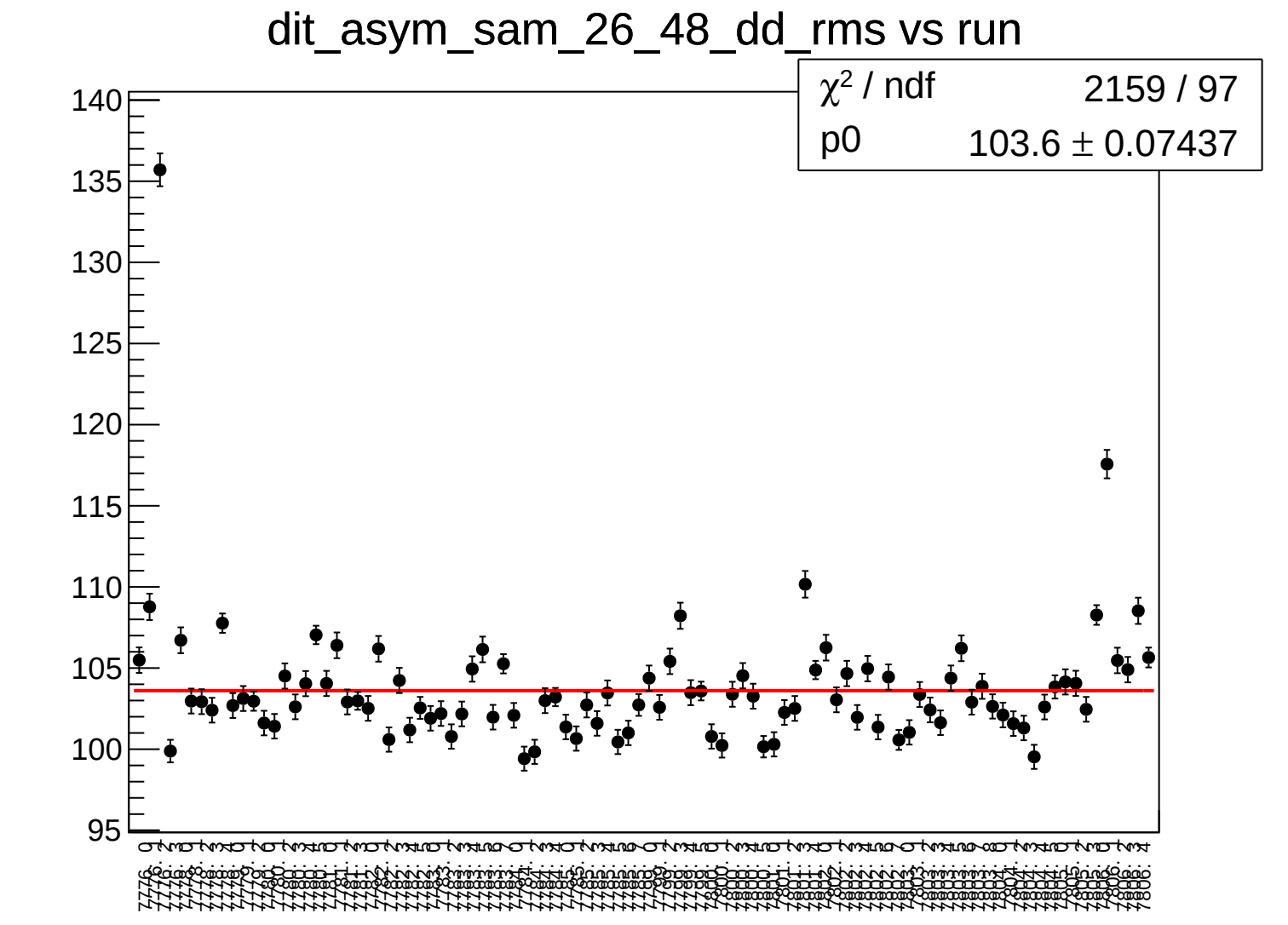

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.97 / 97
p0 135.2 ± 553.4
pull
Entries 98
Mean −1157
Std Dev 0

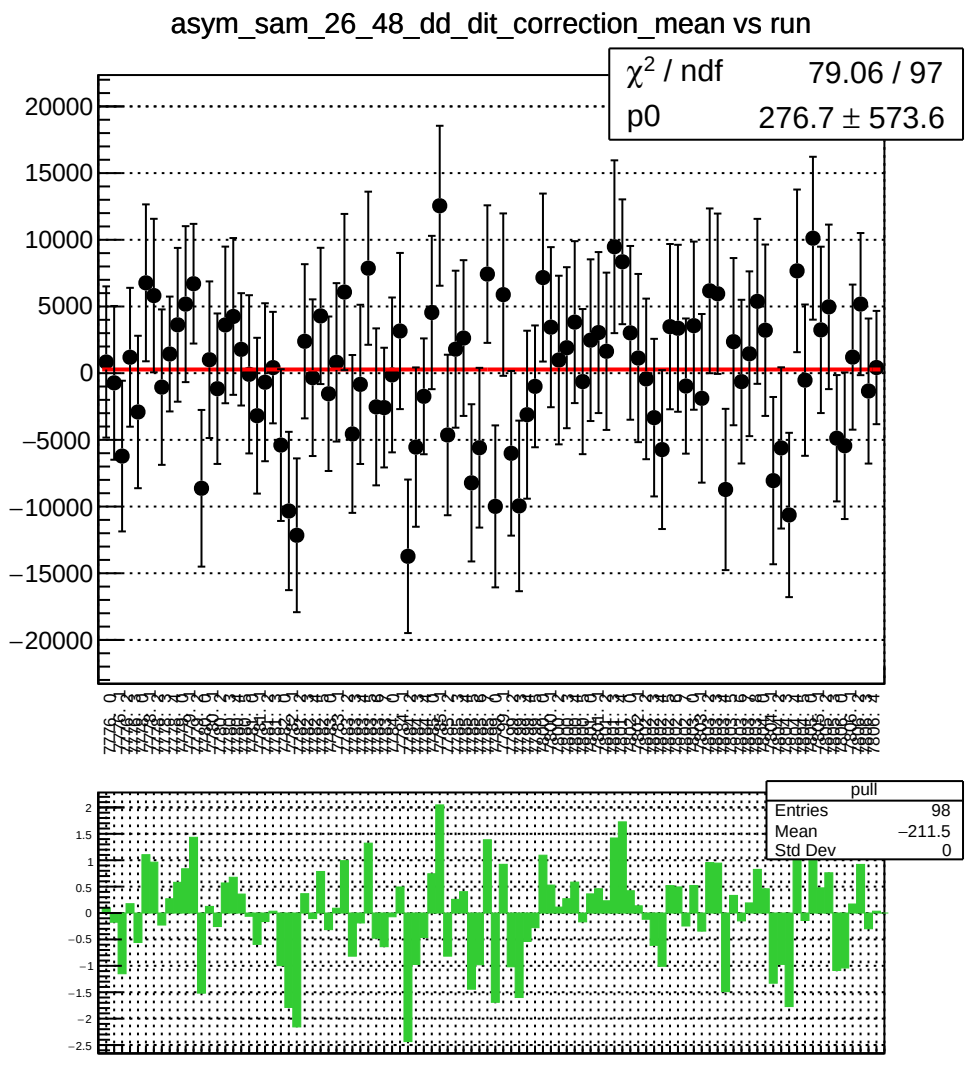

pull1D
Entries 98
Mean −0.001253
Std Dev 0.8862

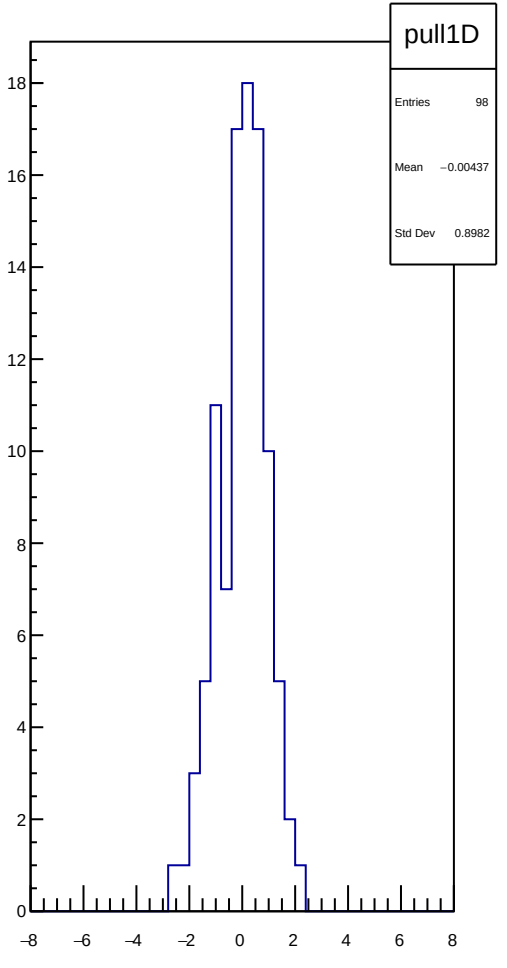

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6219 / 97
p0 544.6 ± 0.3913
620
600
580
560
540
520
500
480

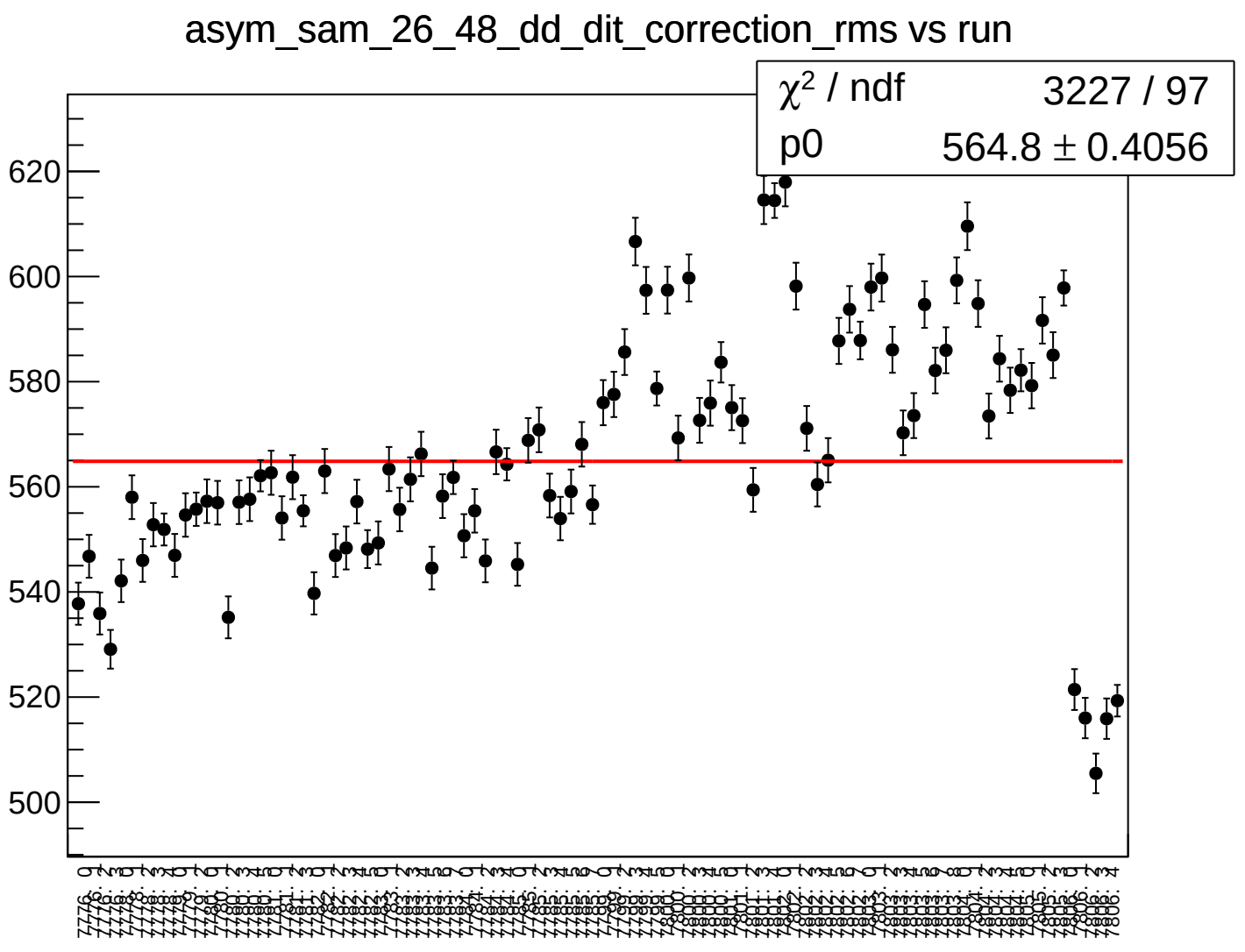

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 73.55 / 97
p0 75.98 ± 105.2
pull
Entries 98
Mean −12.64
Std Dev 0

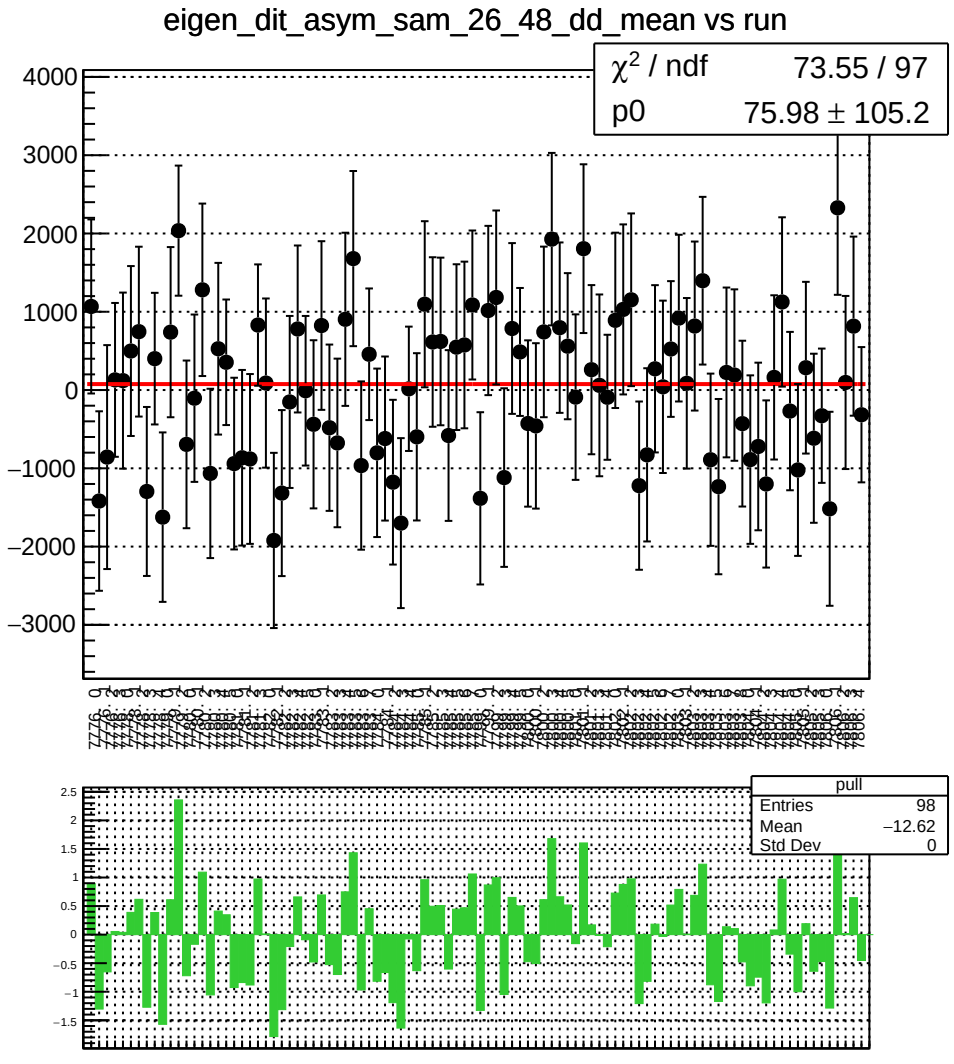

pull1D
Entries 98
Mean −0.01883
Std Dev 0.8661

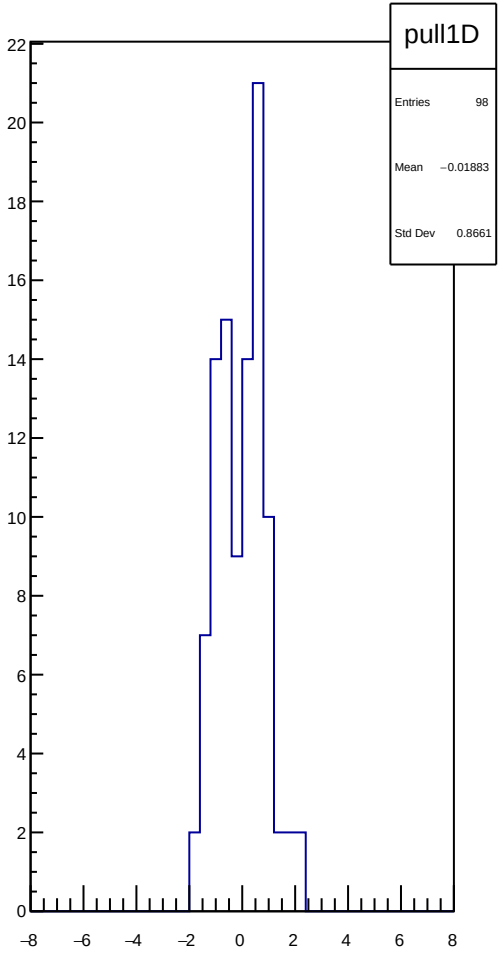

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2159 / 97
p0 103.6 ± 0.07437
140
135
130
125
120
115
110
105
100
95

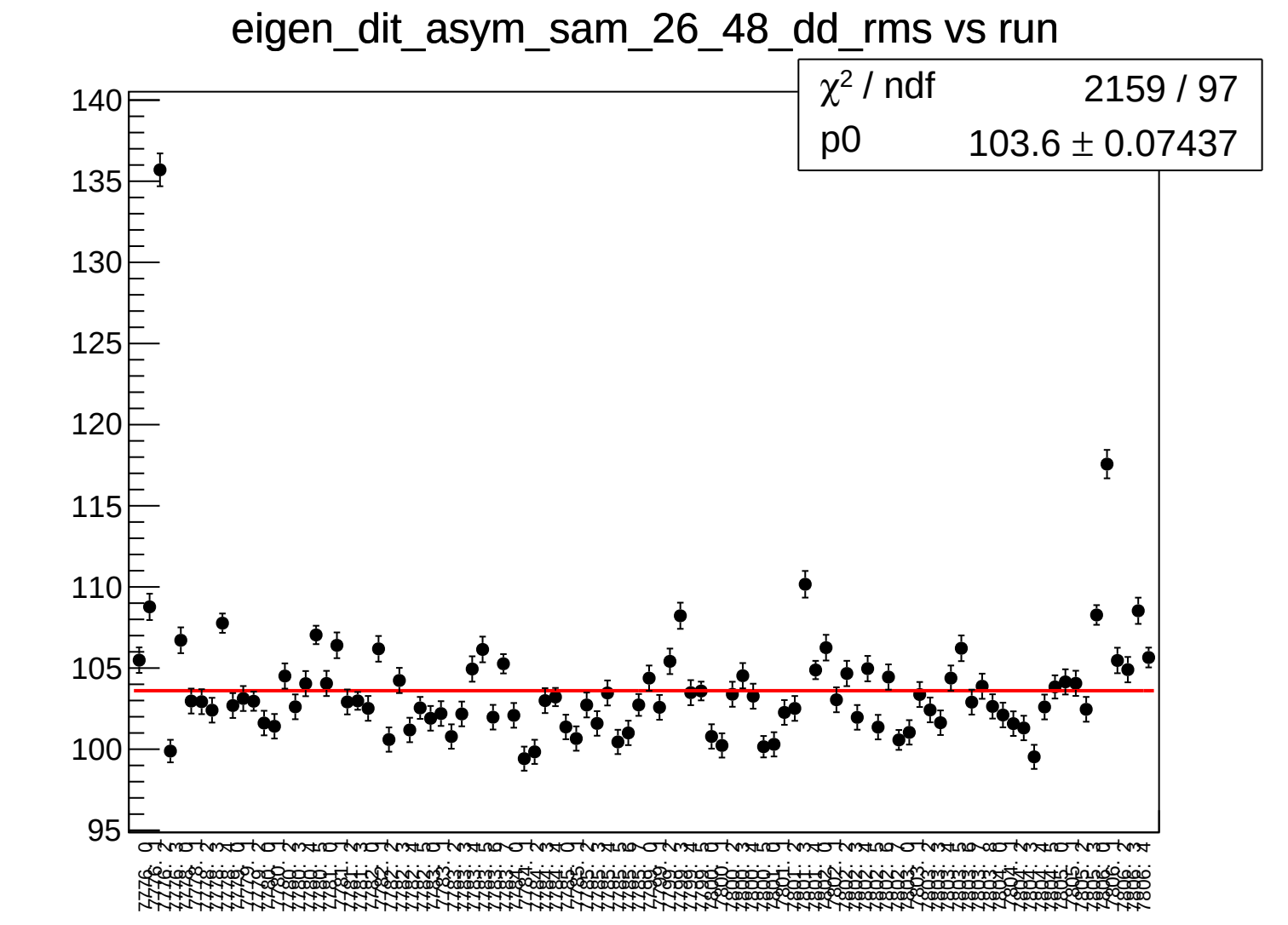

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 79.06 / 97
p0 276.7 ± 573.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 98
Mean −211.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

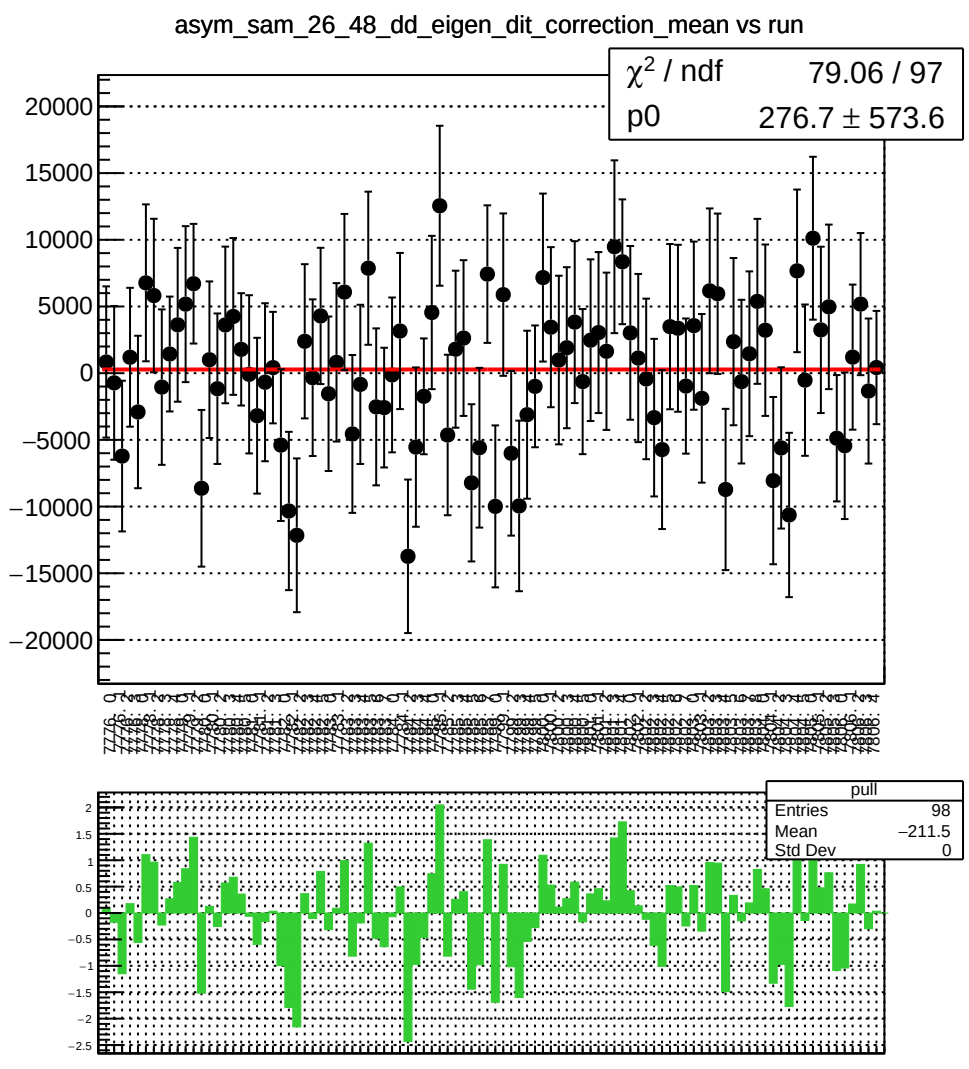

pull1D
Entries 98
Mean −0.00437
Std Dev 0.8982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

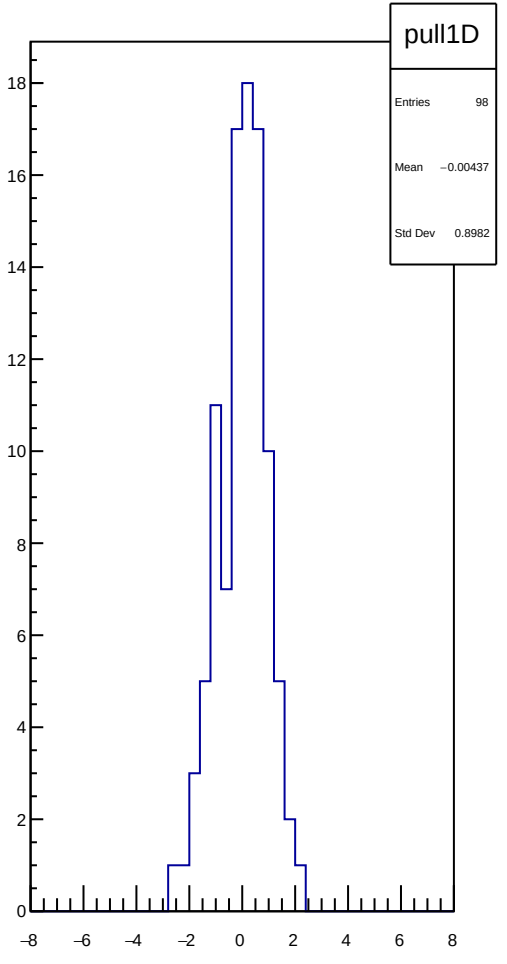

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 3227 / 97
p0 564.8 ± 0.4056
620
600
580
560
540
520
500

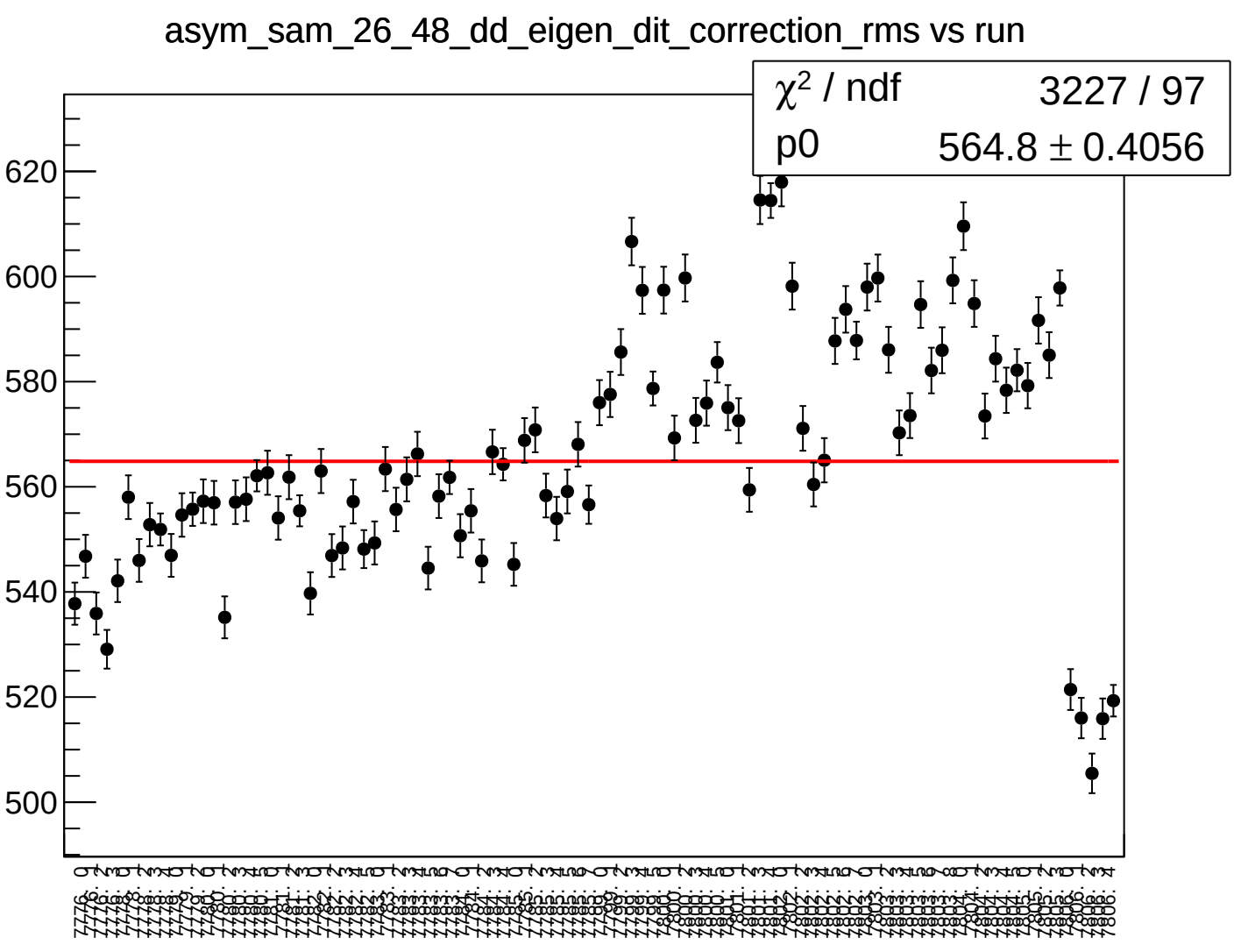

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 73.55 / 97
p0 75.98 ± 105.2
pull
Entries 98
Mean −12.62
Std Dev 0

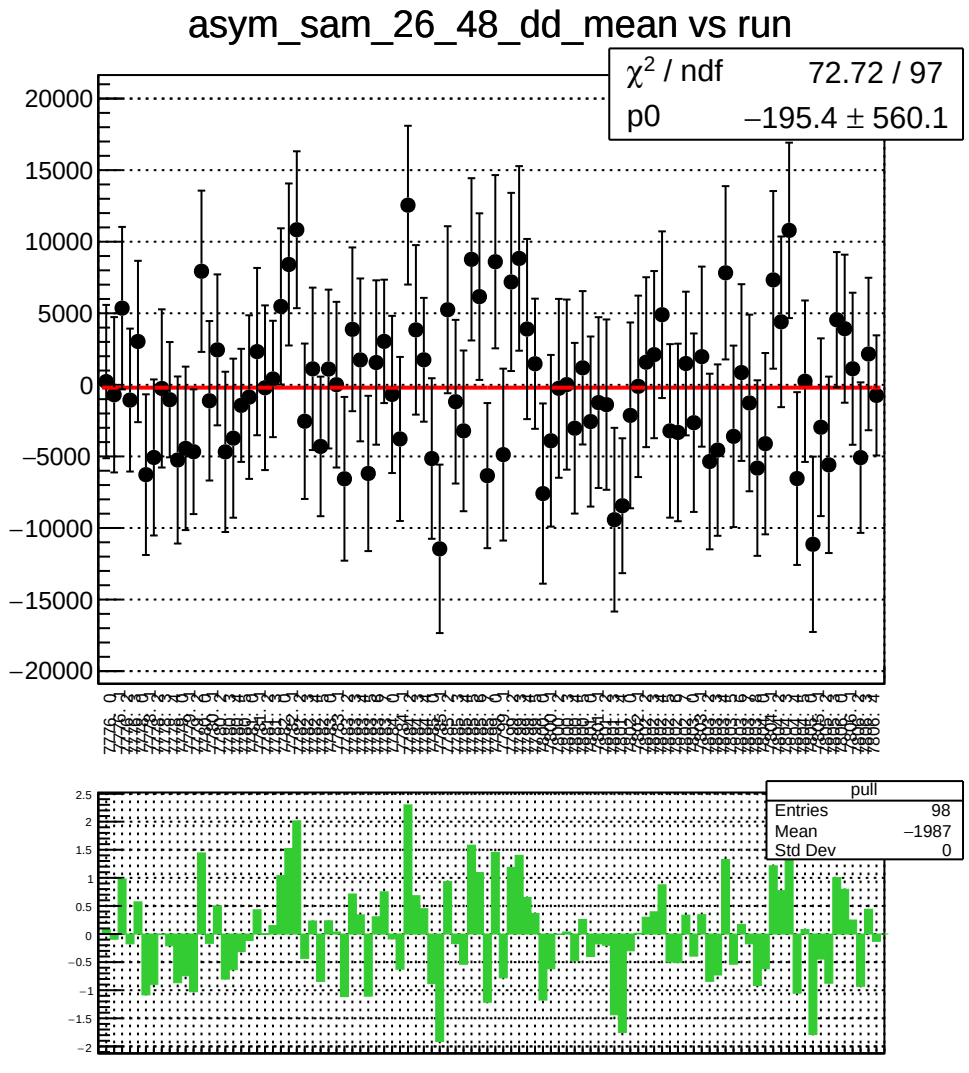

pull1D
Entries 98
Mean −0.01883
Std Dev 0.8661

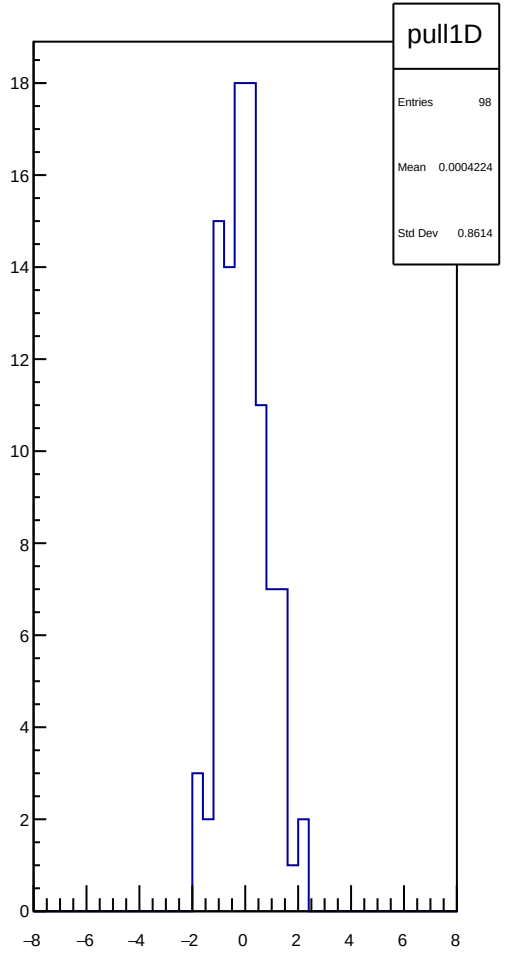

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2159 / 97
p0 103.6 ± 0.07437
140
135
130
125
120
115
110
105
100
95

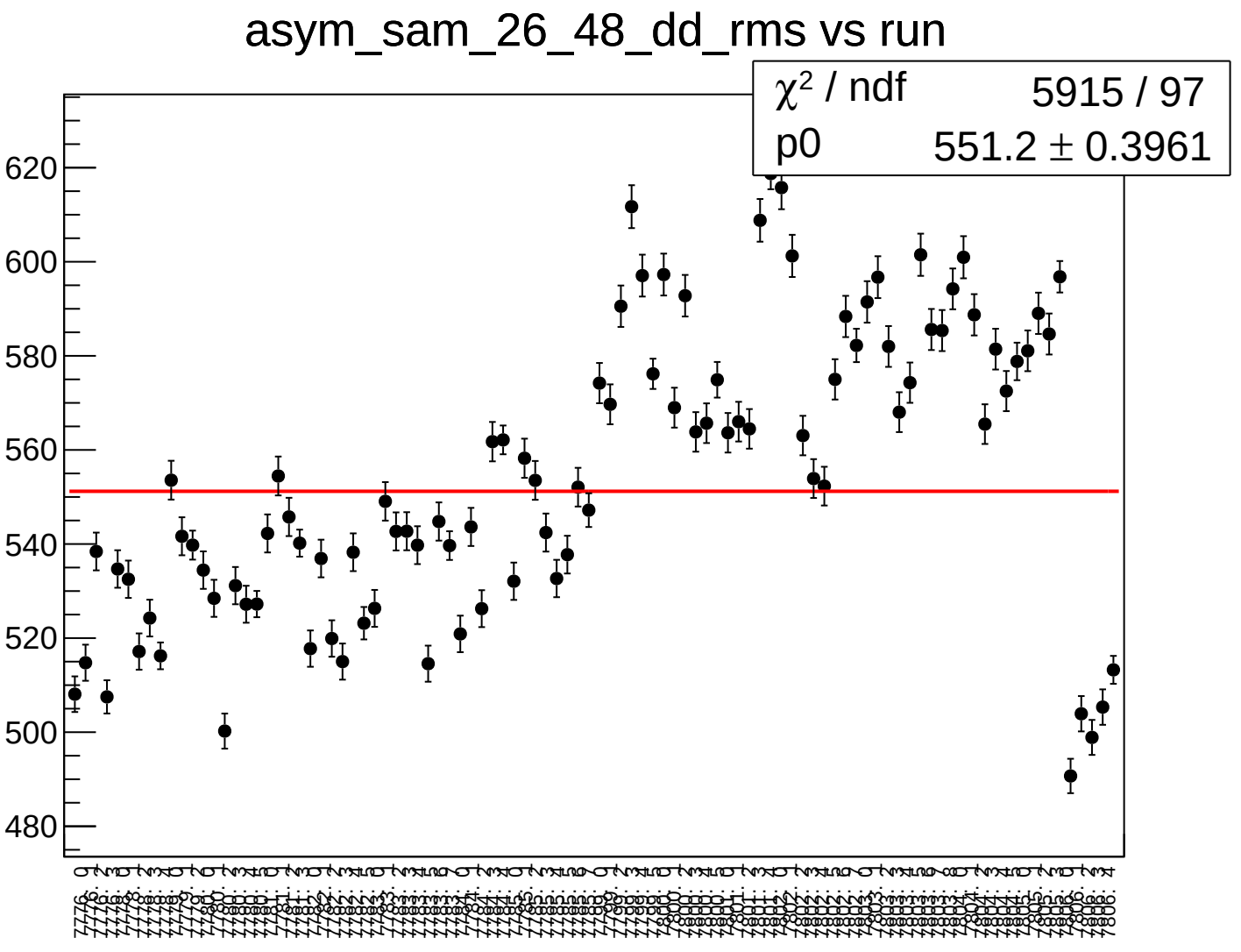

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.06 / 97
p0 276.7 ± 573.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 98
Mean −211.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

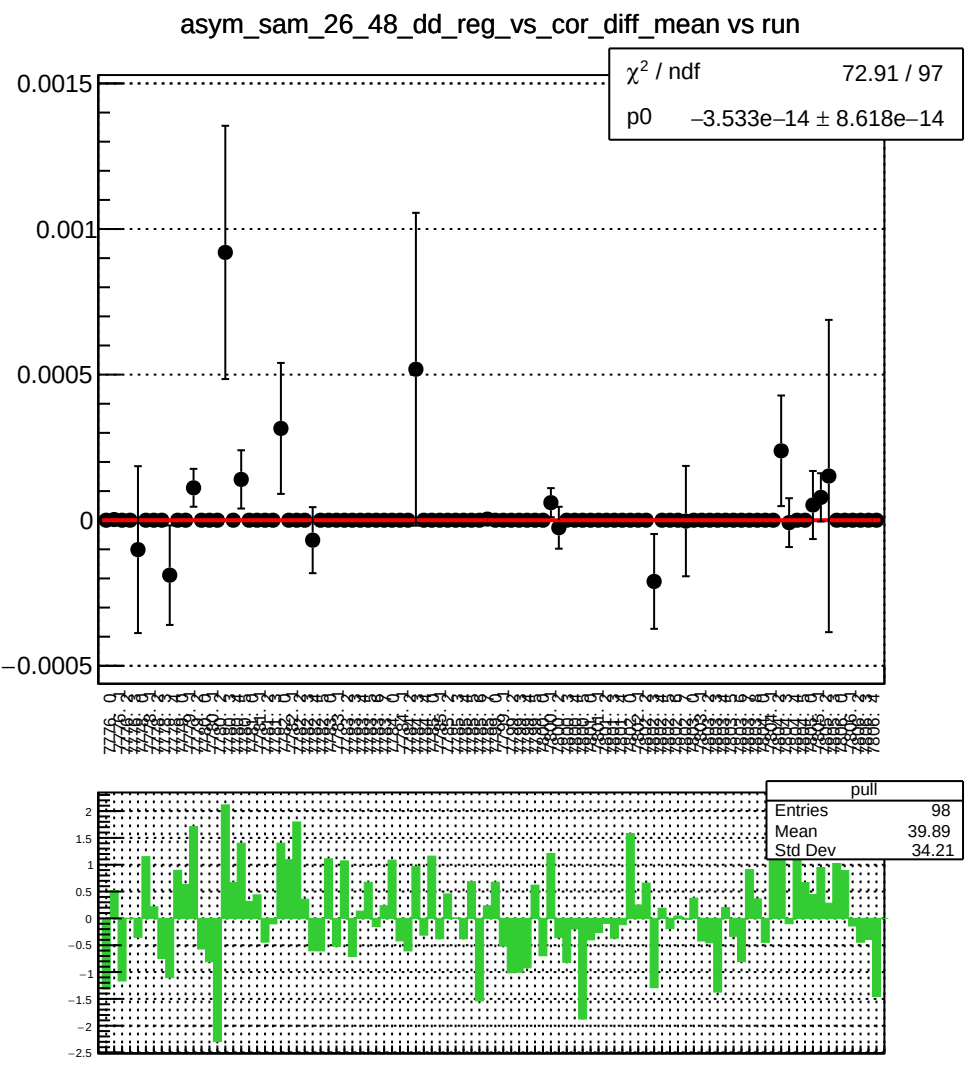

pull1D
Entries 98
Mean −0.00437
Std Dev 0.8982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

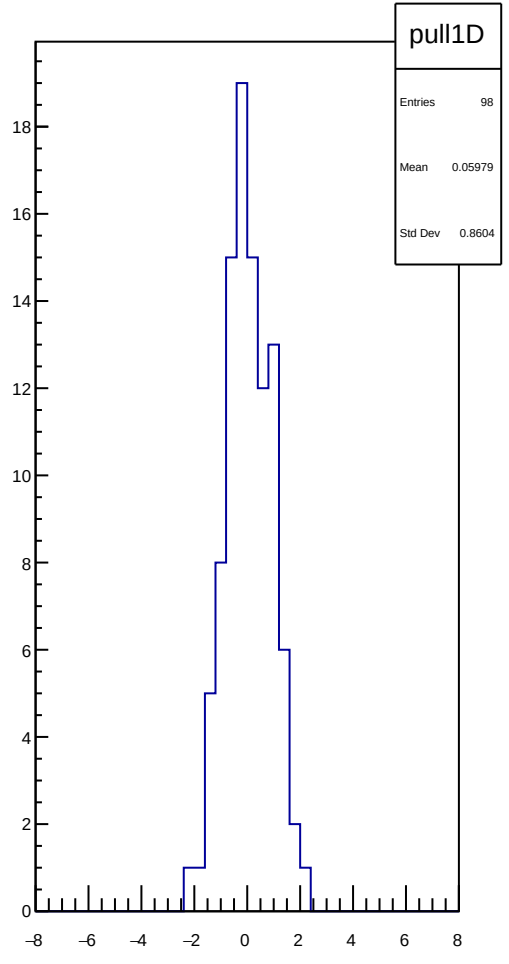

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3227 / 97
p0 564.8 ± 0.4056
620
600
580
560
540
520
500

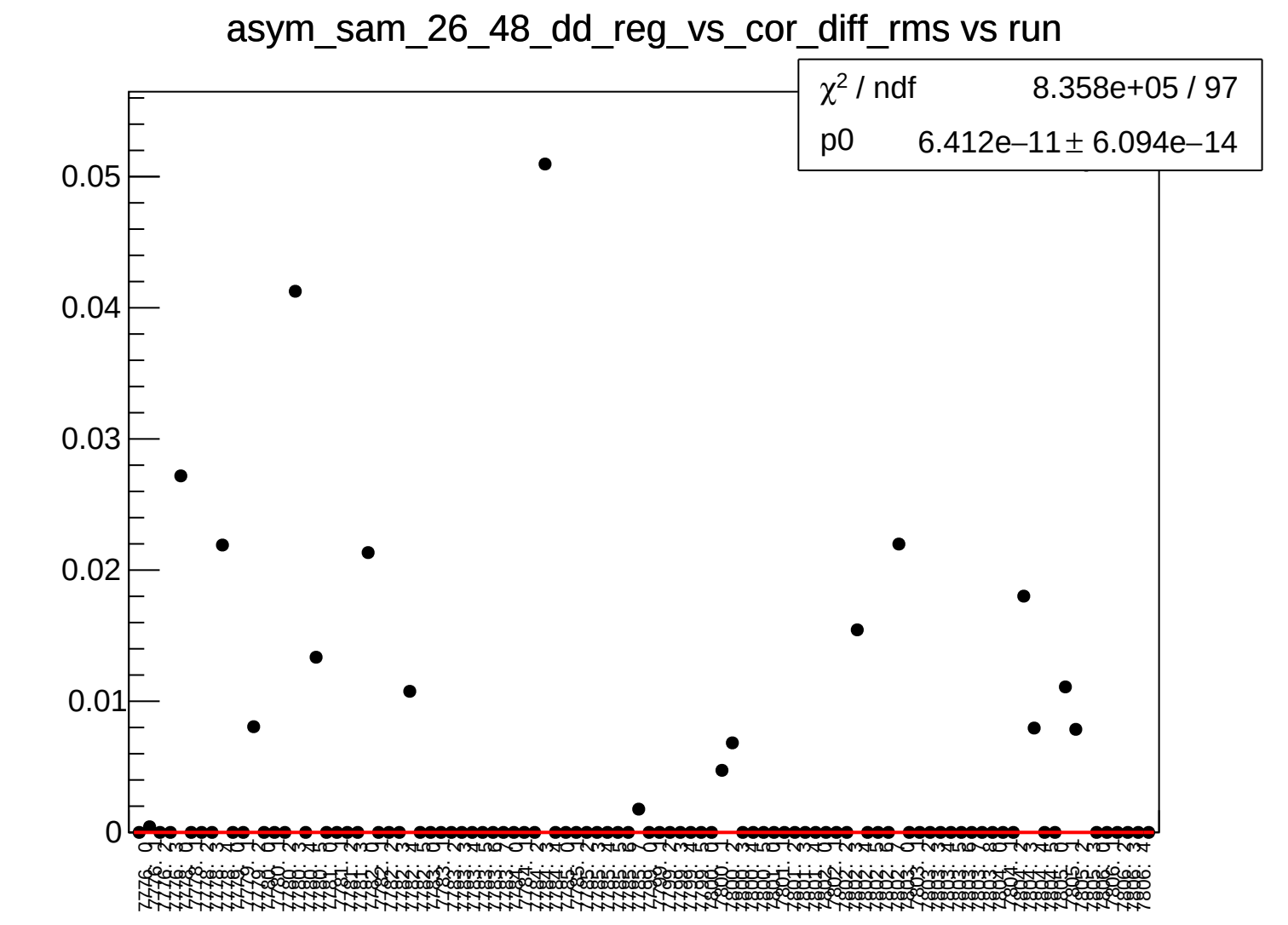

asym_sam_26_48_dd_mean vs run
χ² / ndf 72.72 / 97
p0 −195.4 ± 560.1
pull
Entries 98
Mean −1987
Std Dev 0

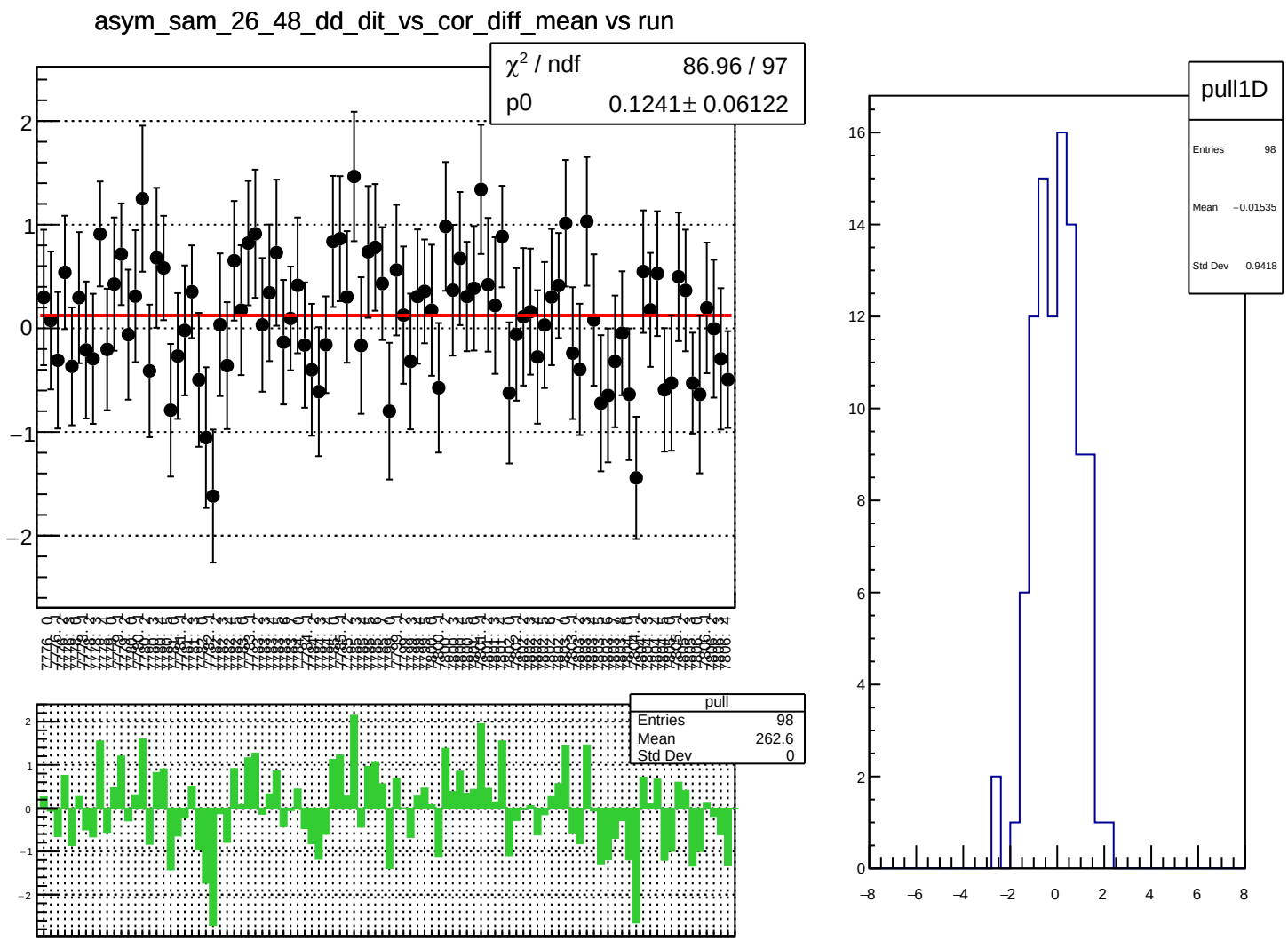

pull1D
Entries 98
Mean 0.0004224
Std Dev 0.8614

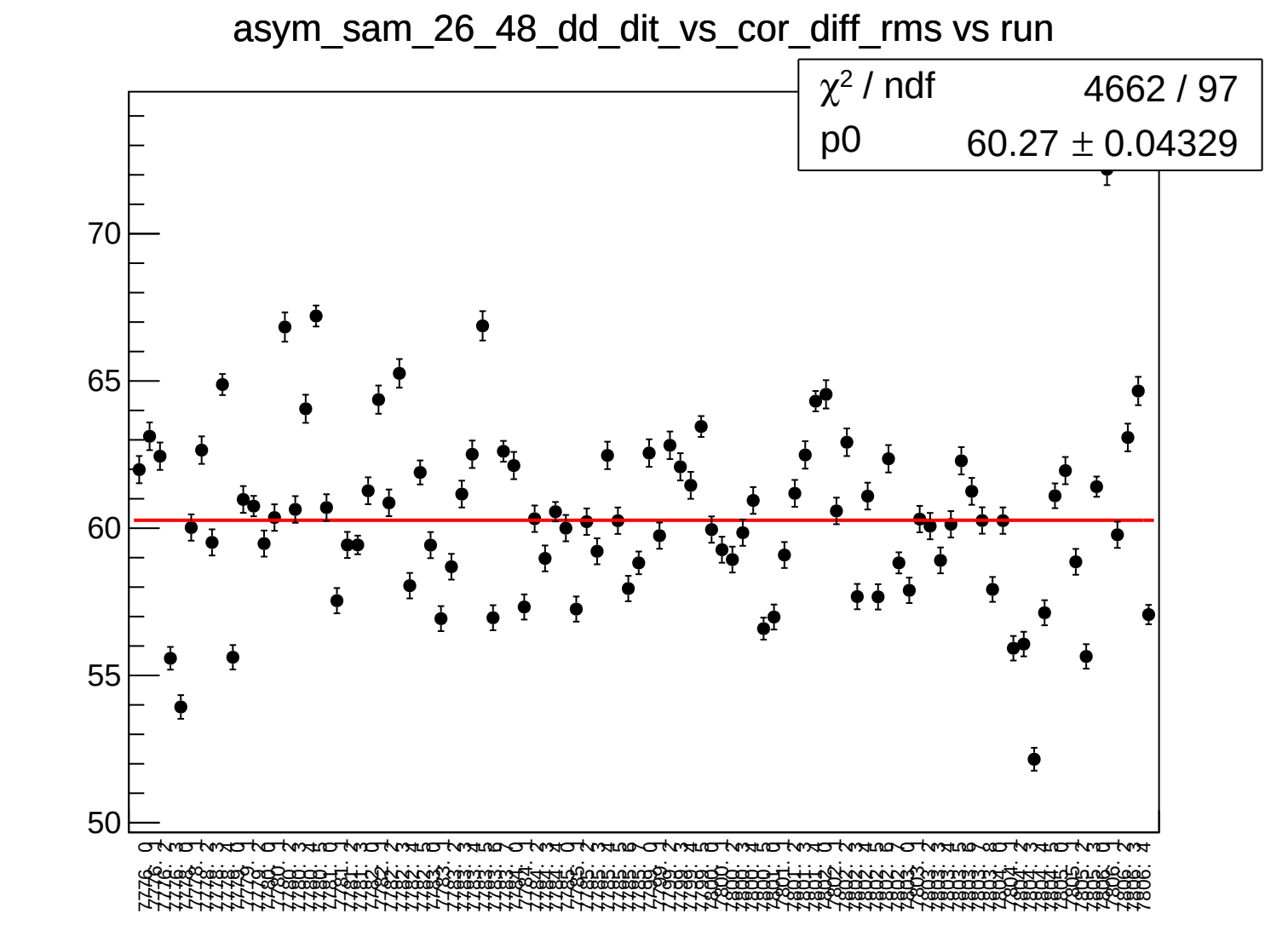

asym_sam_26_48_dd_rms vs run
χ² / ndf 5915 / 97
p0 551.2 ± 0.3961
620
600
580
560
540
520
500
480

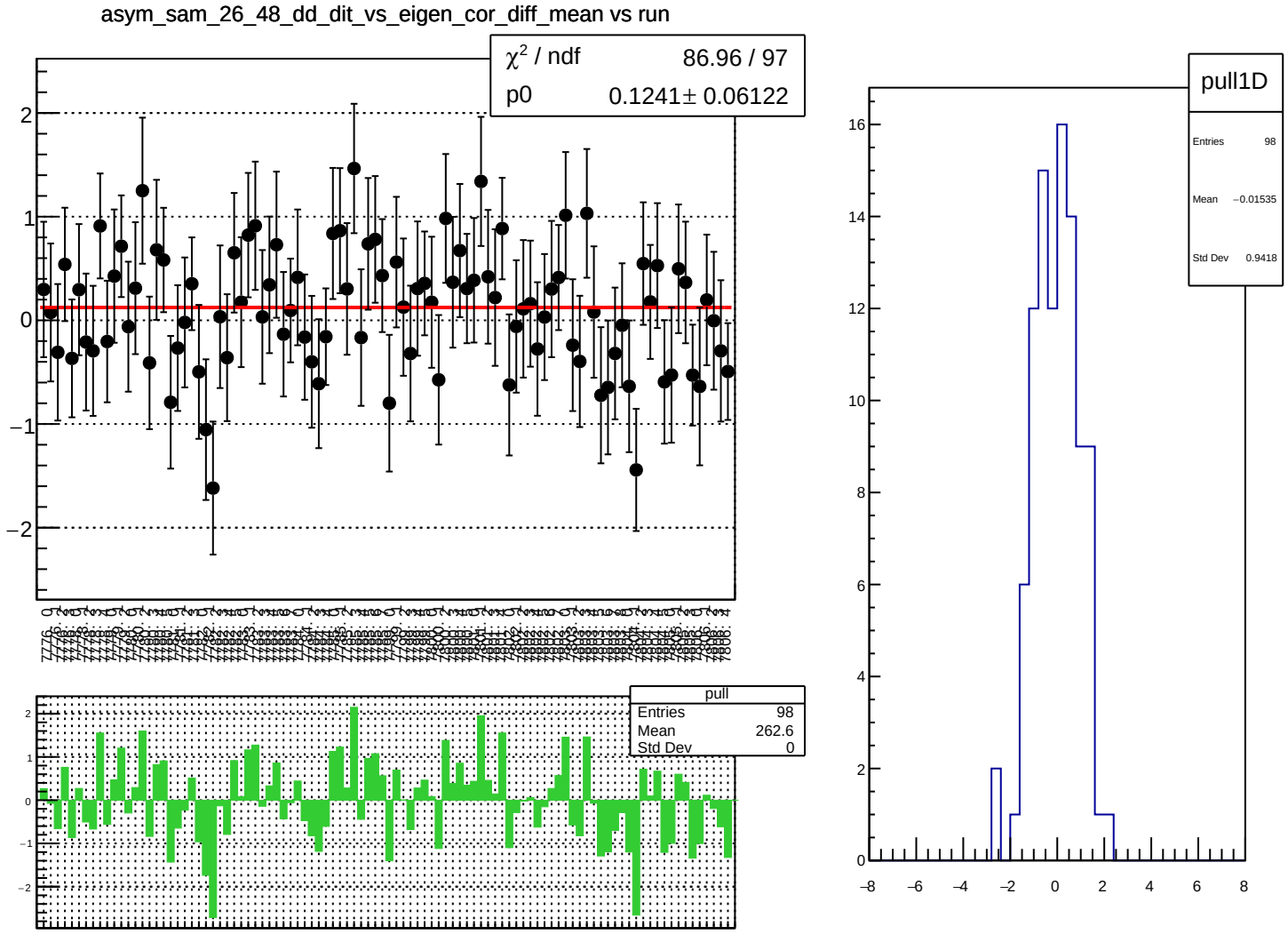

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.91 / 97
p0 −3.533e−14 ± 8.618e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 98
Mean 39.89
Std Dev 34.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

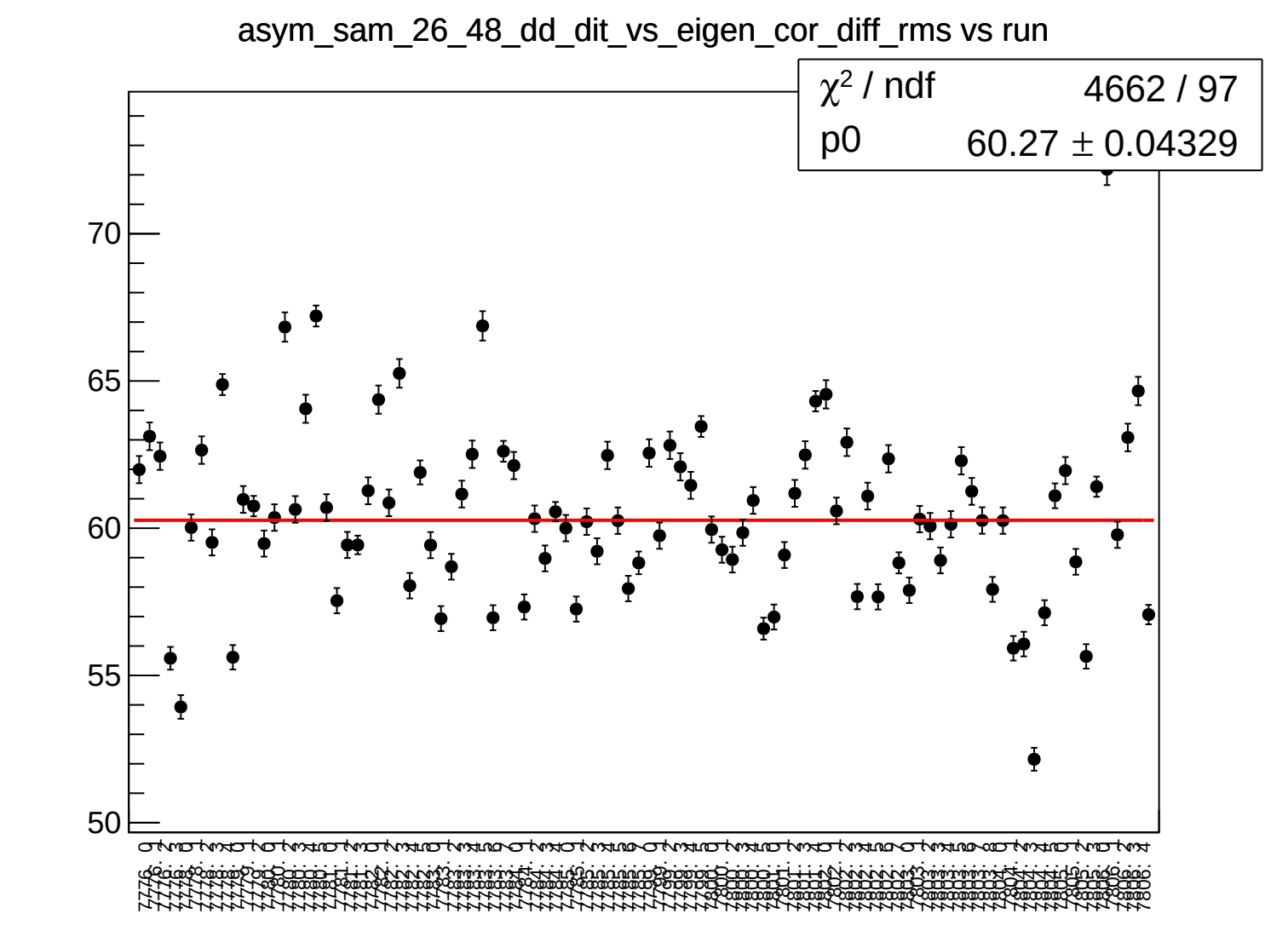

pull1D
Entries 98
Mean 0.05979
Std Dev 0.8604
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

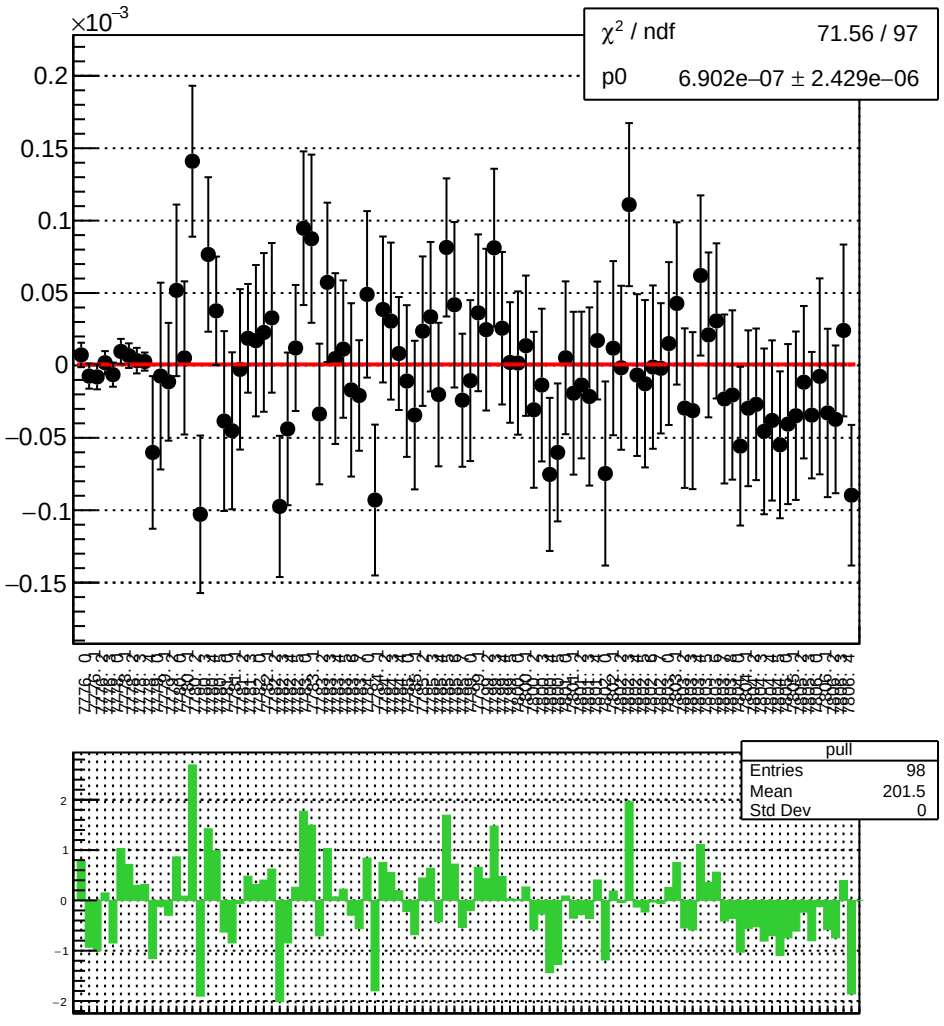

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.358e+05 / 97
p0 6.412e−11 ± 6.094e−14
0.05
0.04
0.03
0.02
0.01
0

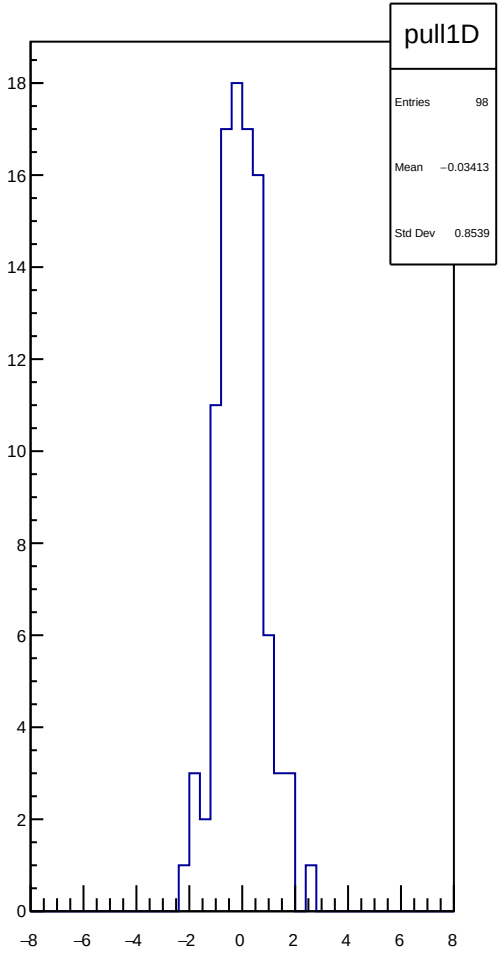

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.96 / 97
p0 0.1241± 0.06122
pull
Entries 98
Mean 262.6
Std Dev 0
pull1D
Entries 98
Mean −0.01535
Std Dev 0.9418

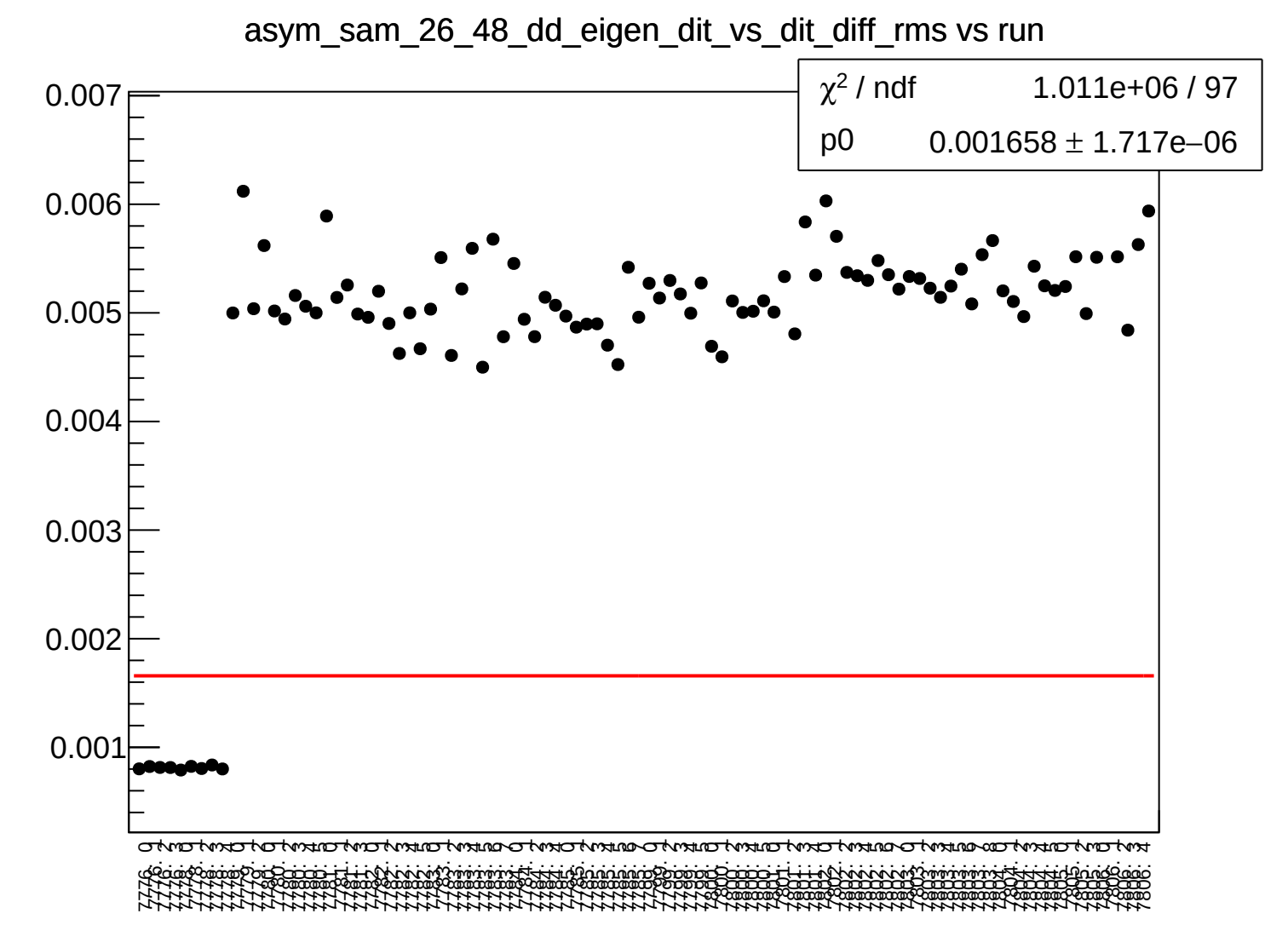

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4662 / 97
p0 60.27 ± 0.04329
70
65
60
55
50

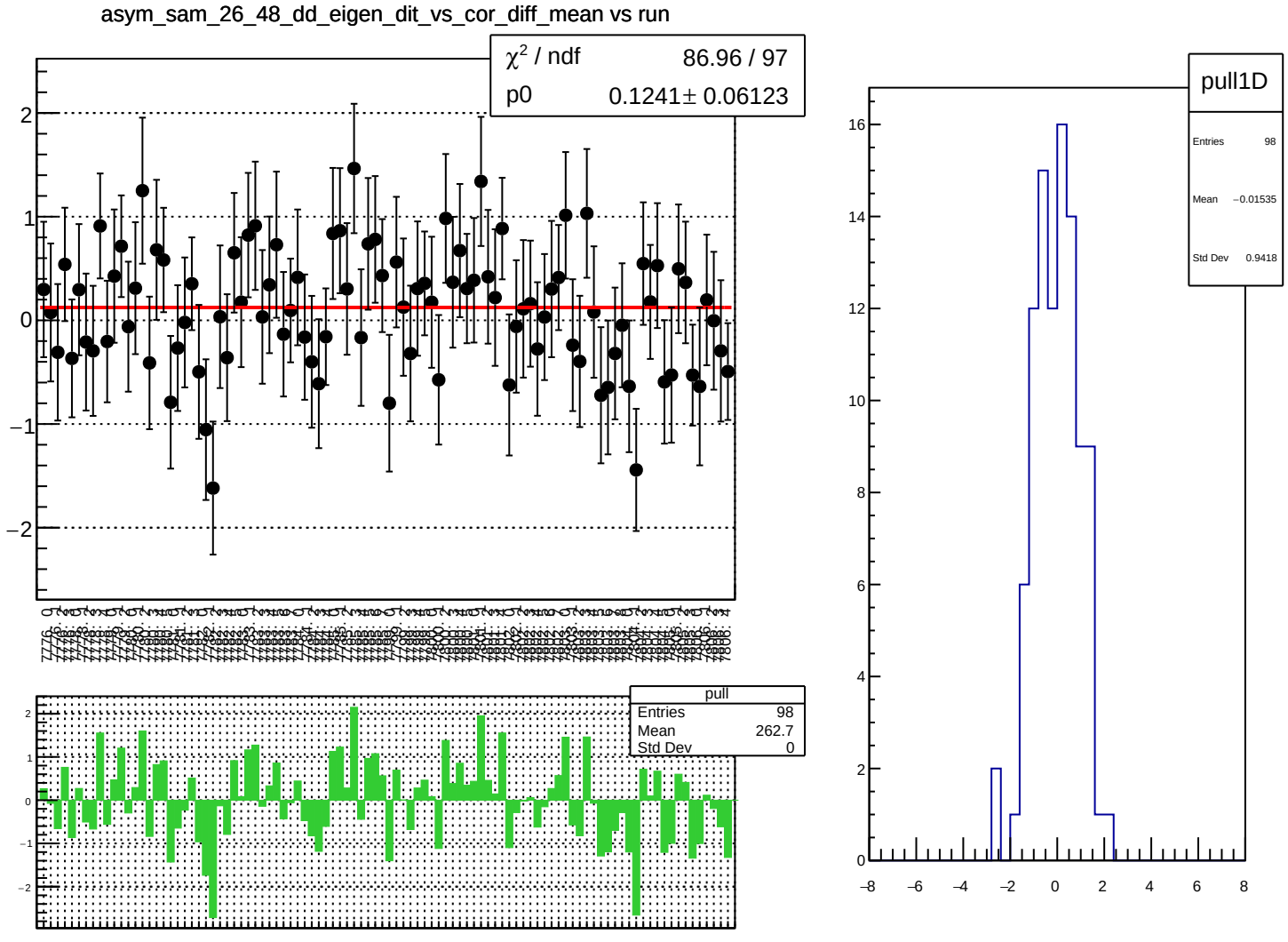

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.96 / 97
p0 0.1241± 0.06122
pull
Entries 98
Mean 262.6
Std Dev 0
pull1D
Entries 98
Mean −0.01535
Std Dev 0.9418

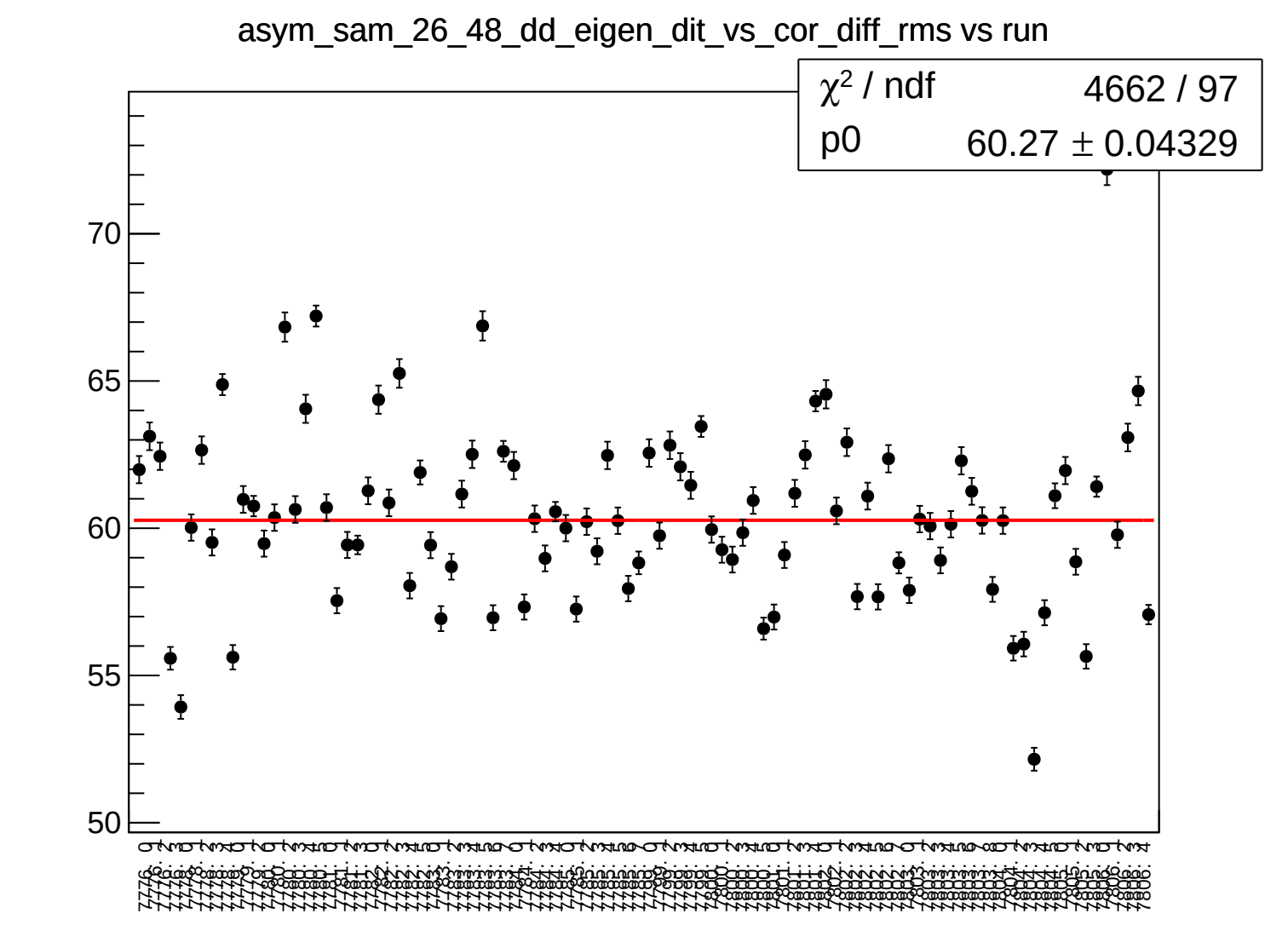

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4662 / 97
p0 60.27 ± 0.04329
70
65
60
55
50

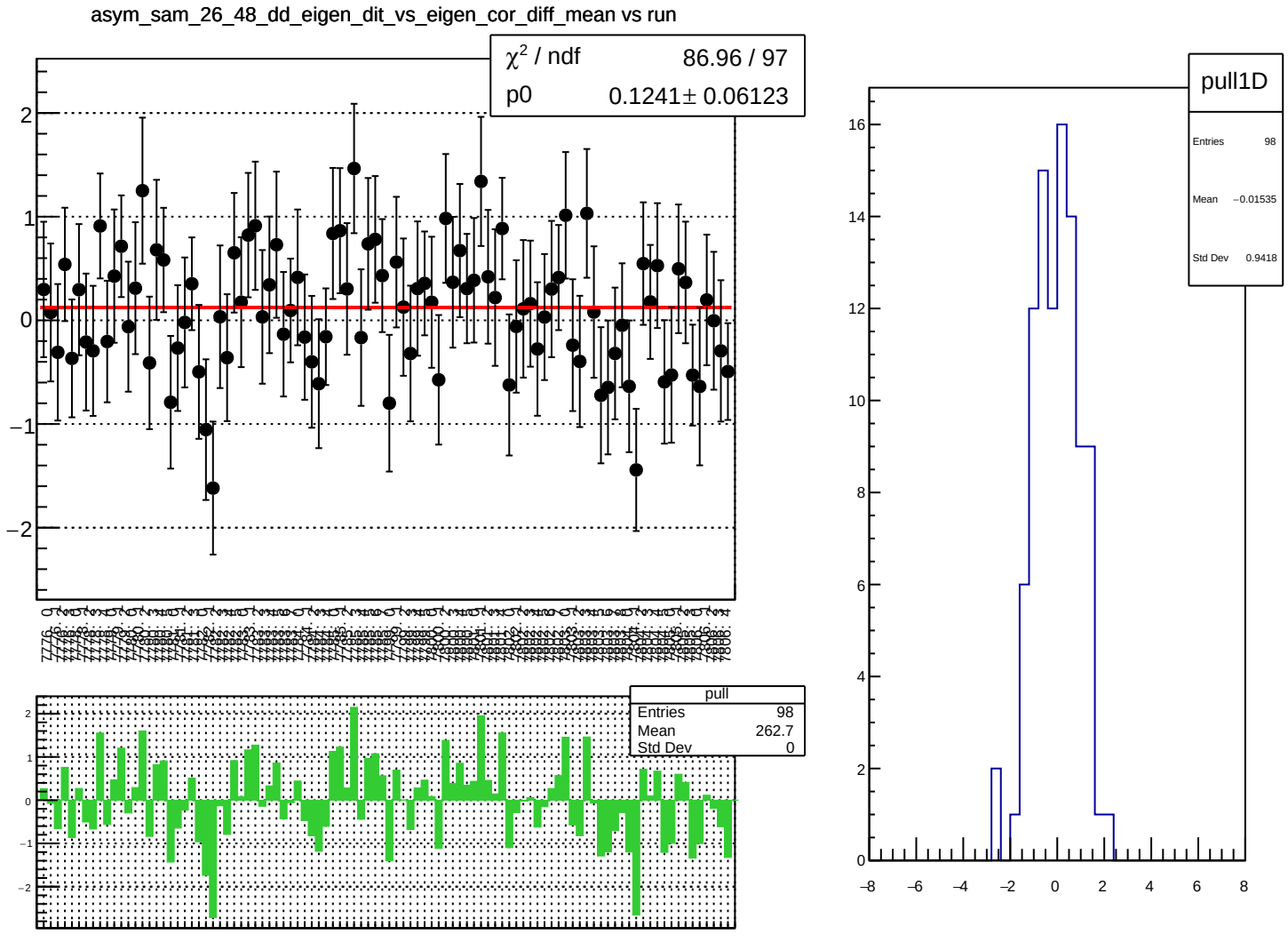

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.56 / 97
p0 6.902e−07 ± 2.429e−06
pull
Entries 98
Mean 201.5
Std Dev 0

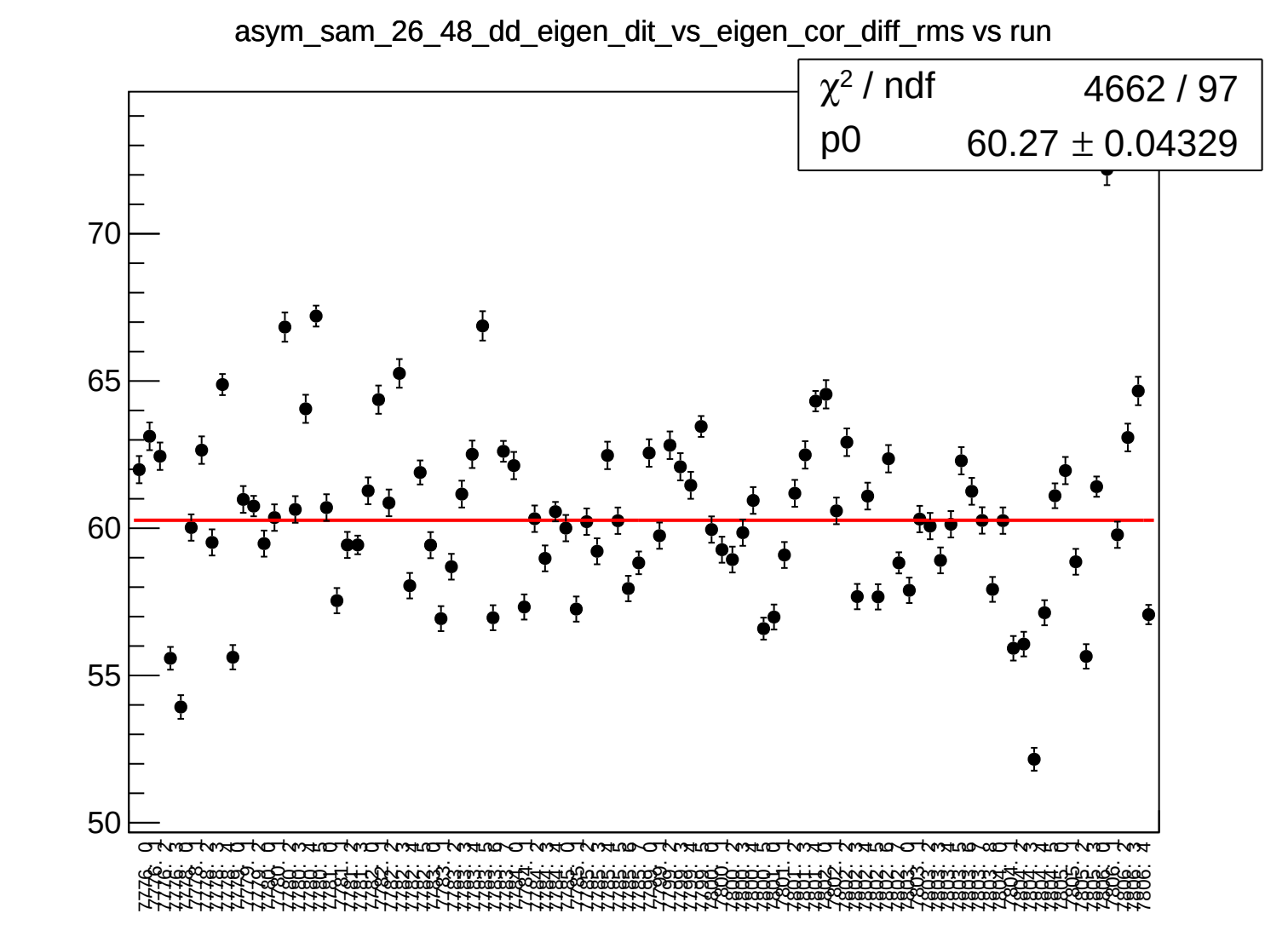

pull1D
Entries 98
Mean −0.03413
Std Dev 0.8539

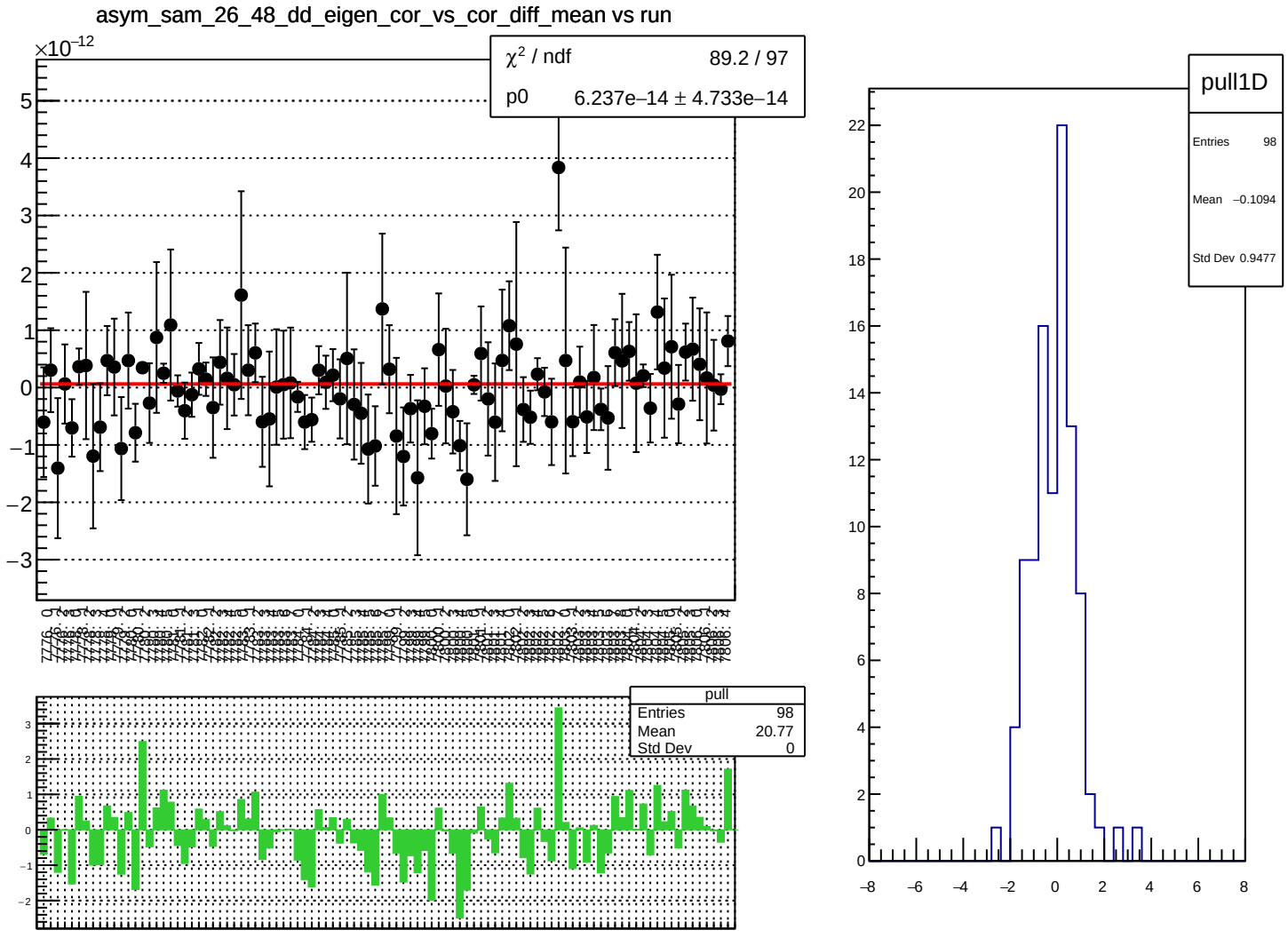

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.011e+06 / 97
p0 0.001658 ± 1.717e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

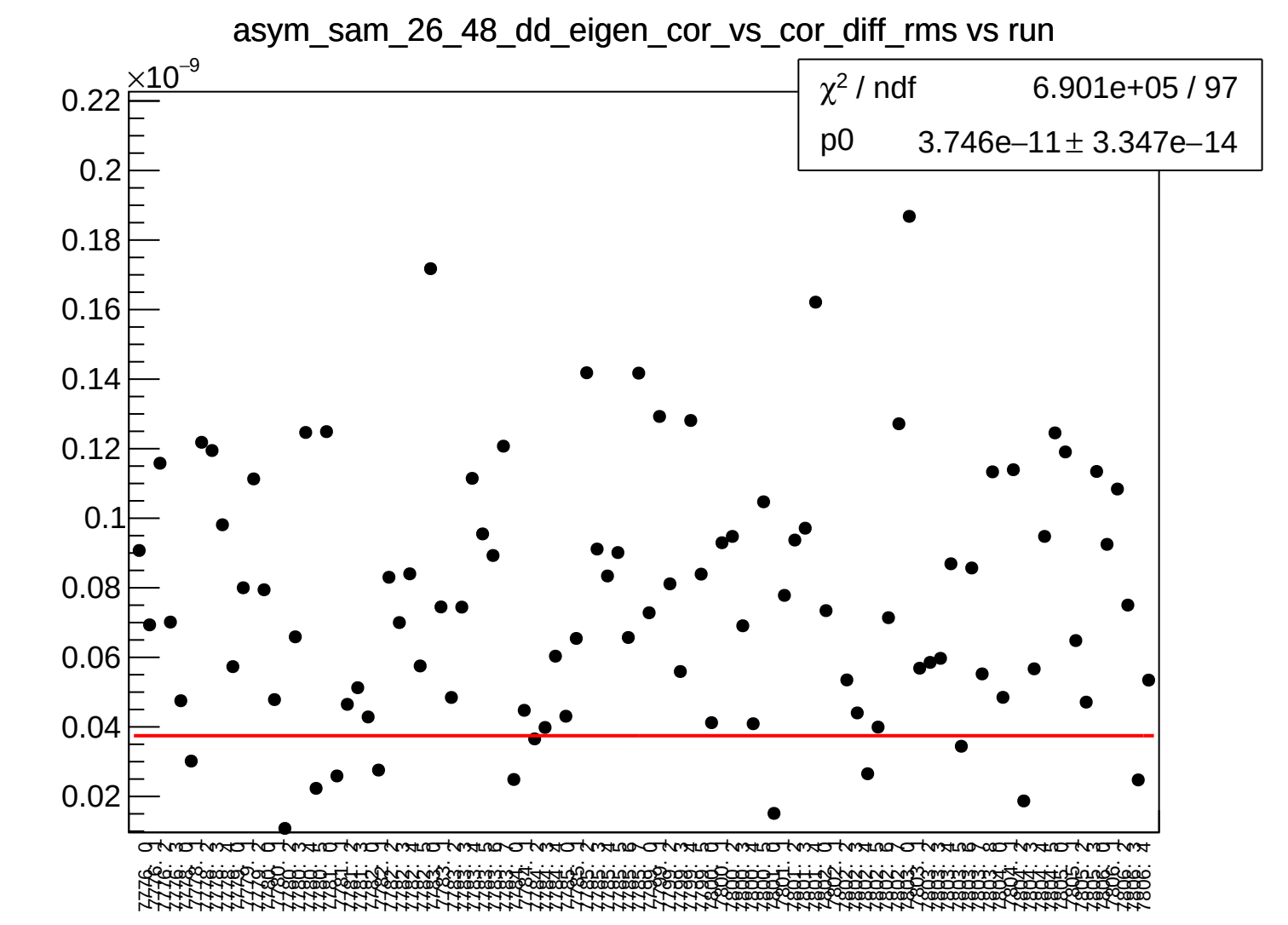

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.96 / 97
p0 0.1241± 0.06123
pull
Entries 98
Mean 262.7
Std Dev 0
pull1D
Entries 98
Mean −0.01535
Std Dev 0.9418

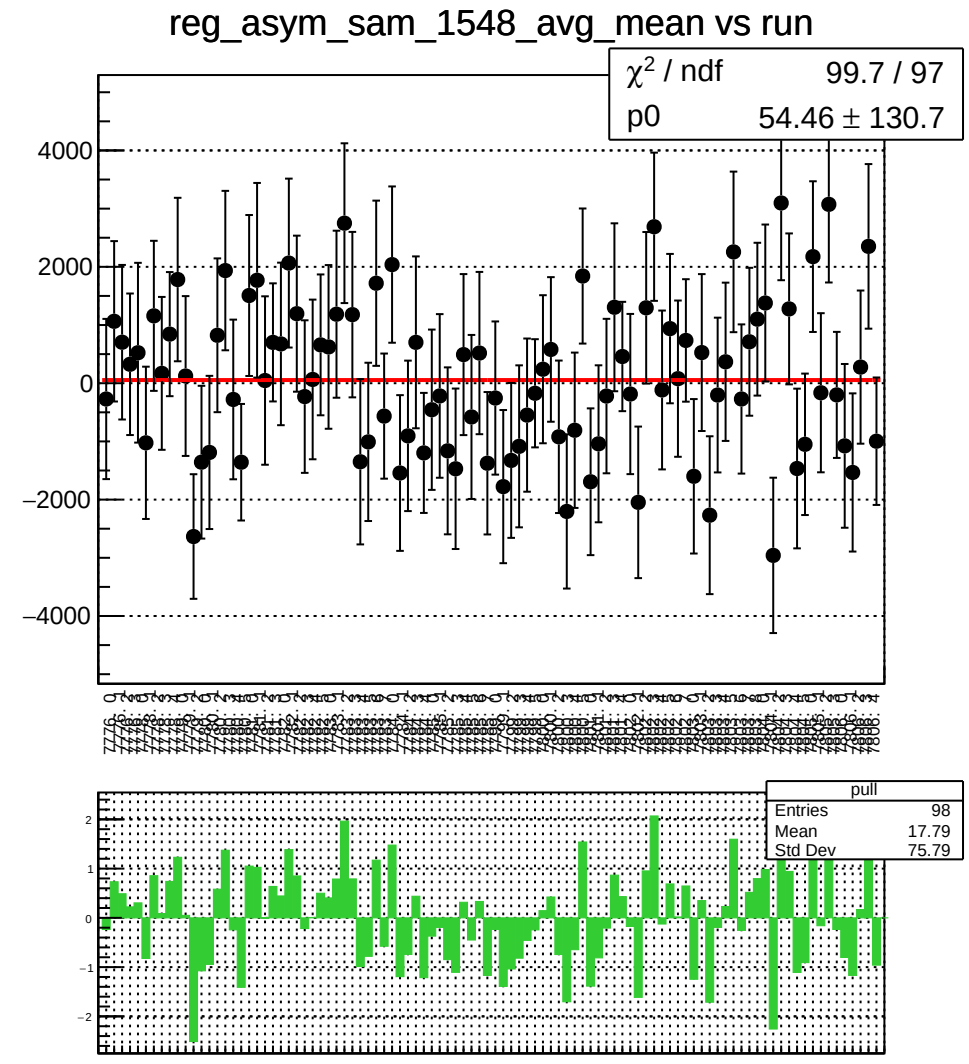

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4662 / 97
p0 60.27 ± 0.04329
70
65
60
55
50

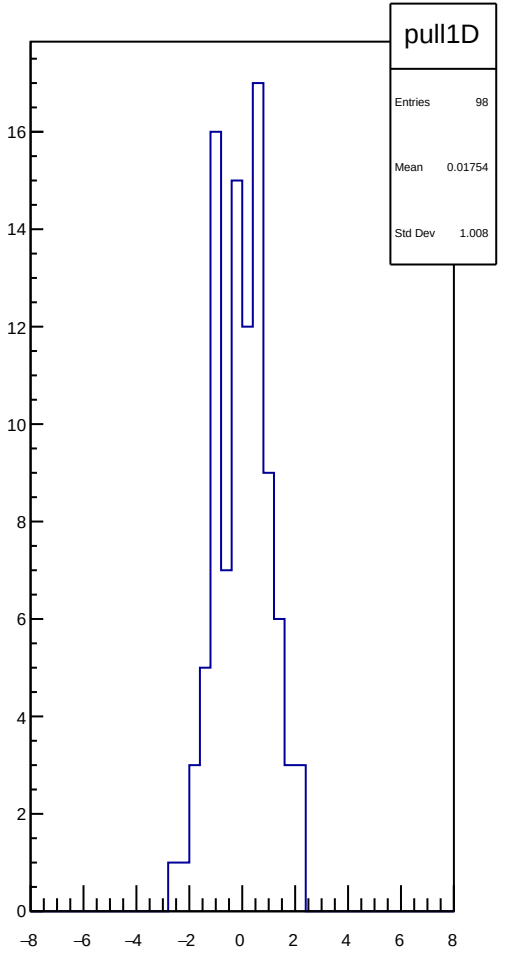

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.96 / 97
p0 0.1241± 0.06123
pull
Entries 98
Mean 262.7
Std Dev 0
pull1D
Entries 98
Mean −0.01535
Std Dev 0.9418

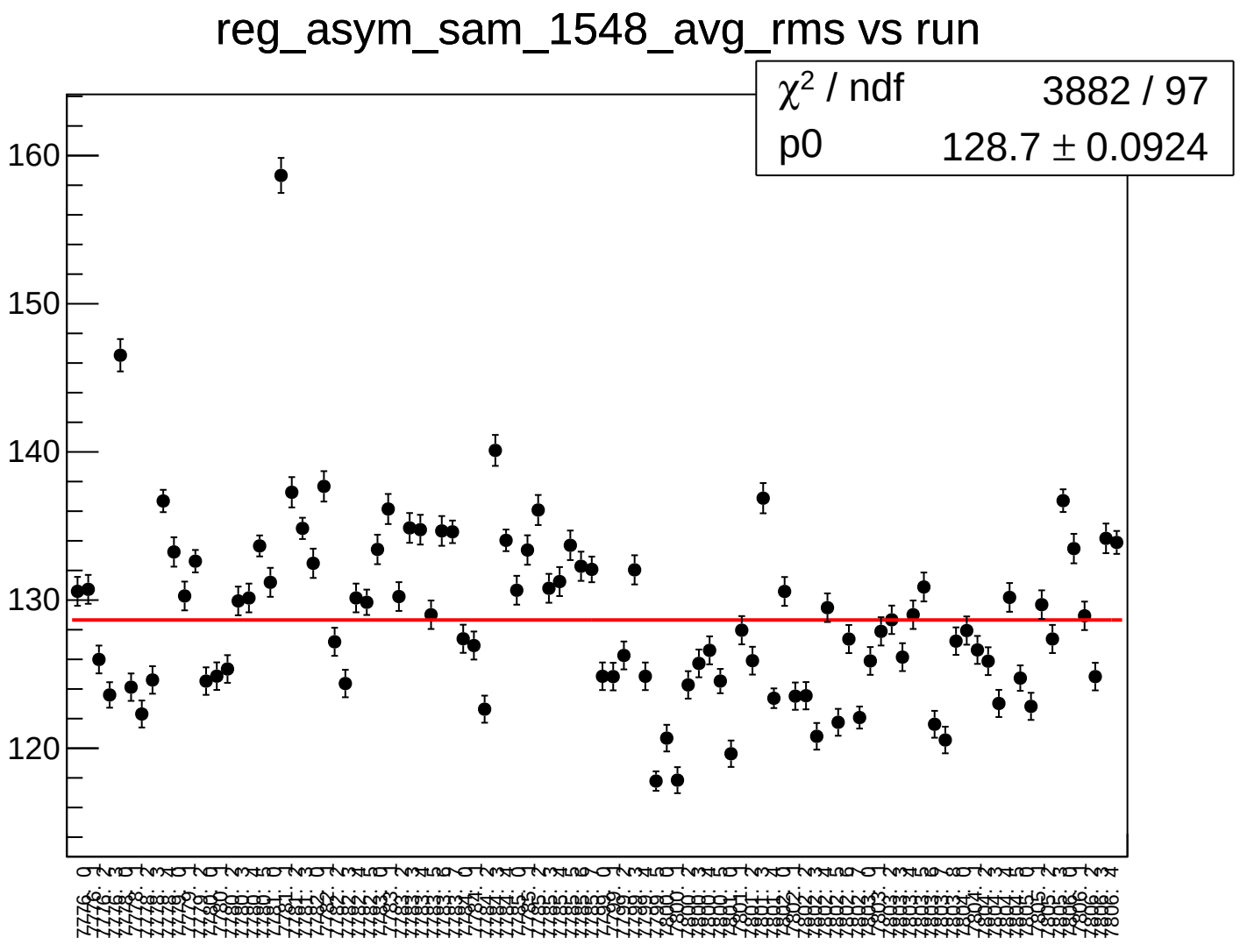

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4662 / 97
p0 60.27 ± 0.04329
70
65
60
55
50

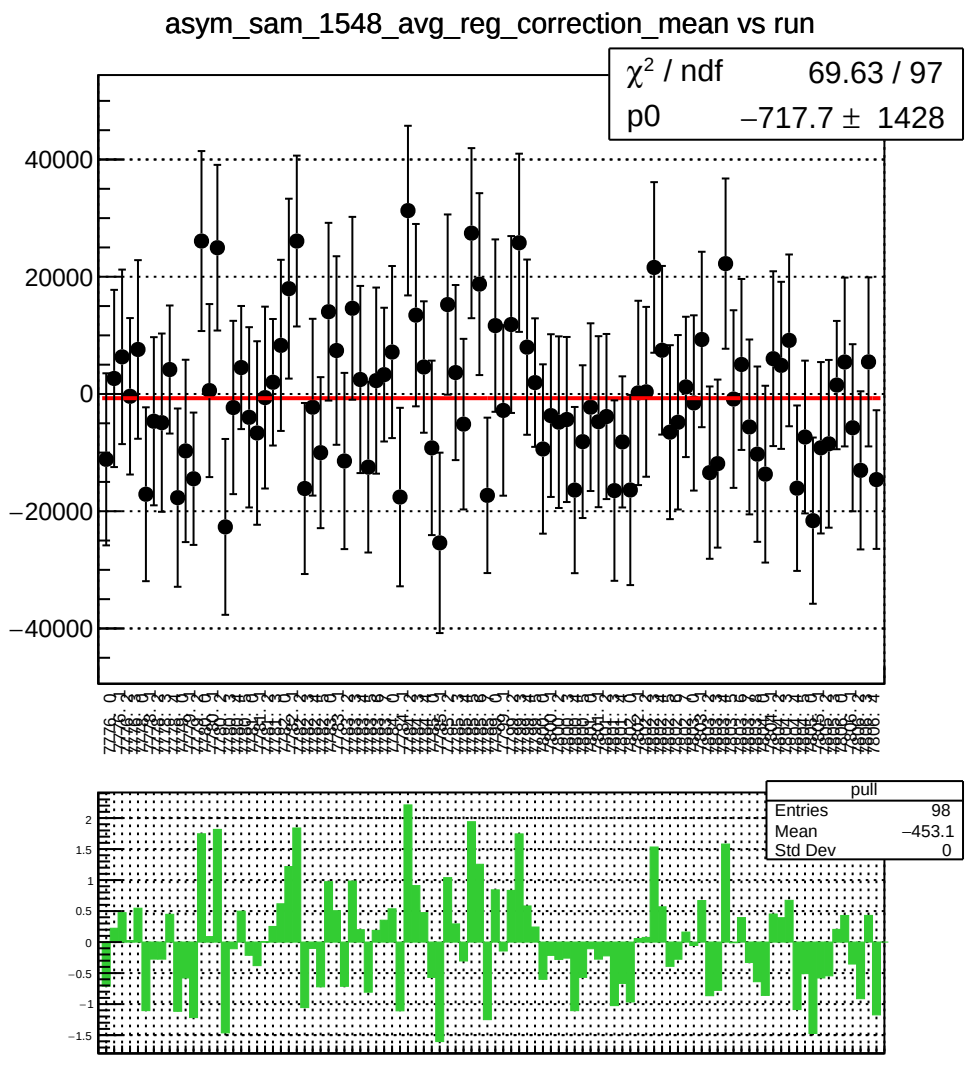

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.2 / 97
p0 6.237e−14 ± 4.733e−14
pull
Entries 98
Mean 20.77
Std Dev 0
pull1D
Entries 98
Mean −0.1094
Std Dev 0.9477

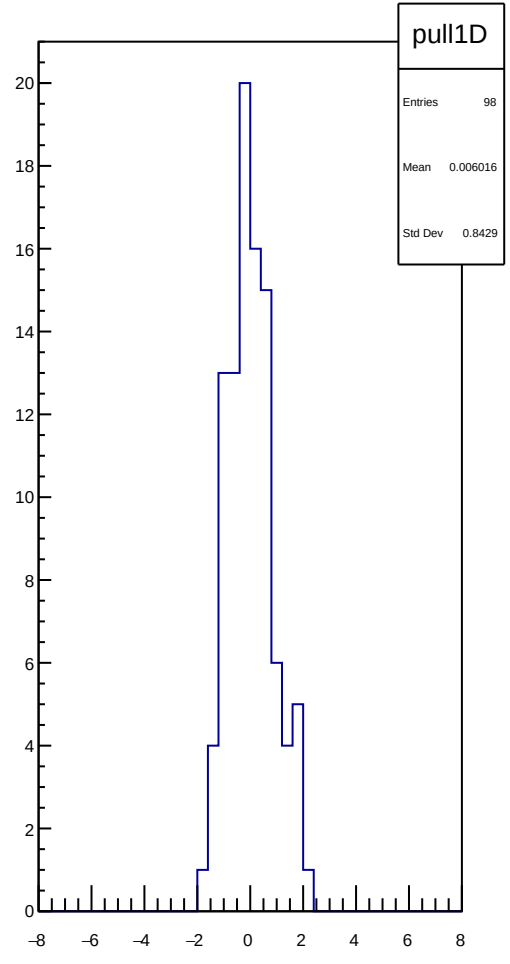

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.901e+05 / 97
p0 3.746e−11 ± 3.347e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

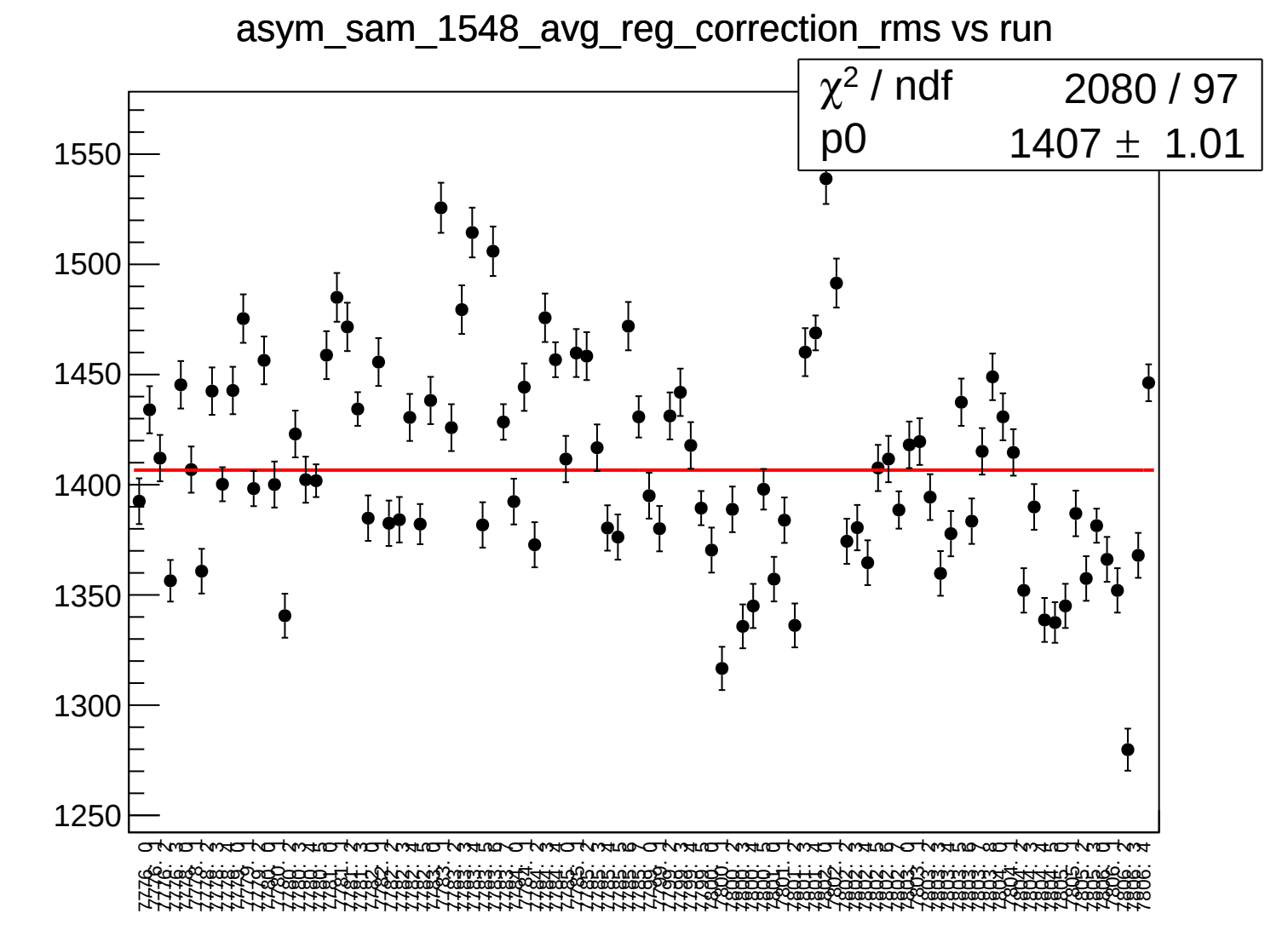

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 99.7 / 97
p0 54.46 ± 130.7
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 17.79
Std Dev 75.79
2
1
0
−1
−2

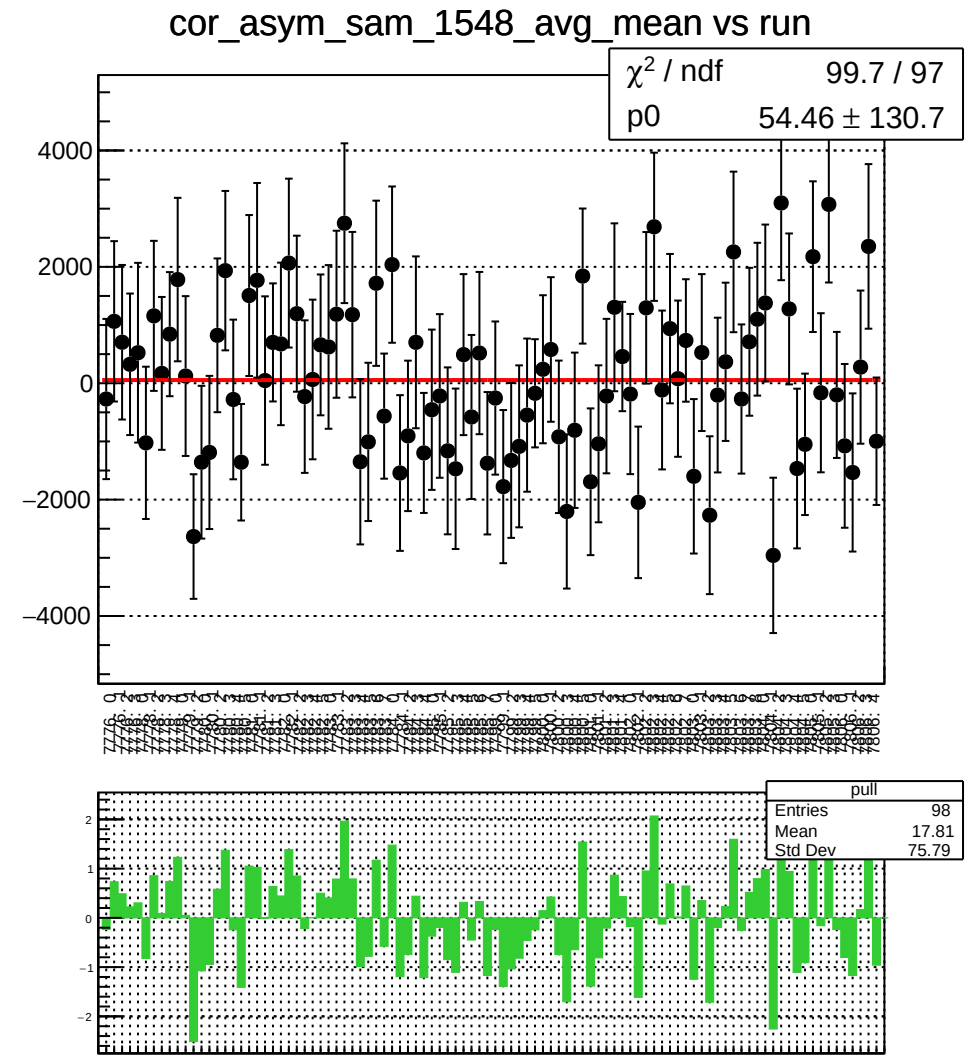

pull1D
Entries 98
Mean 0.01754
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

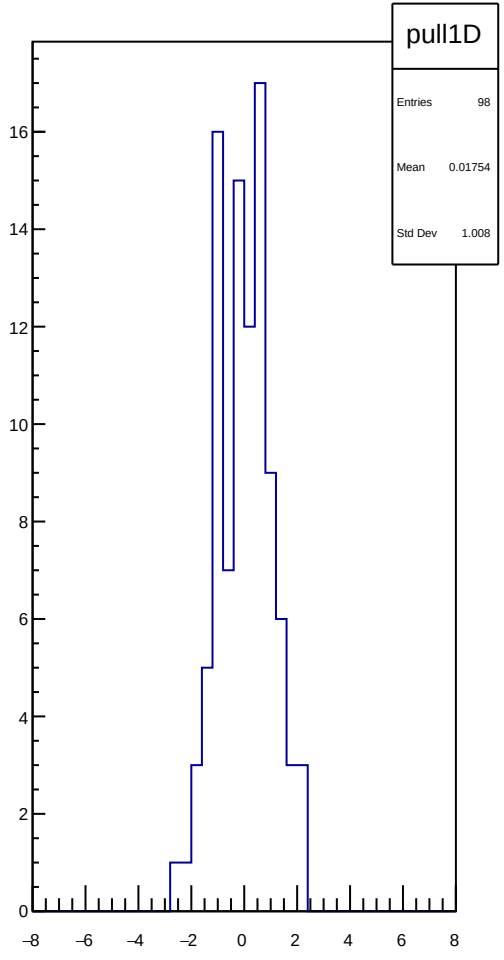

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 3882 / 97
p0 128.7 ± 0.0924
160
150
140
130
120

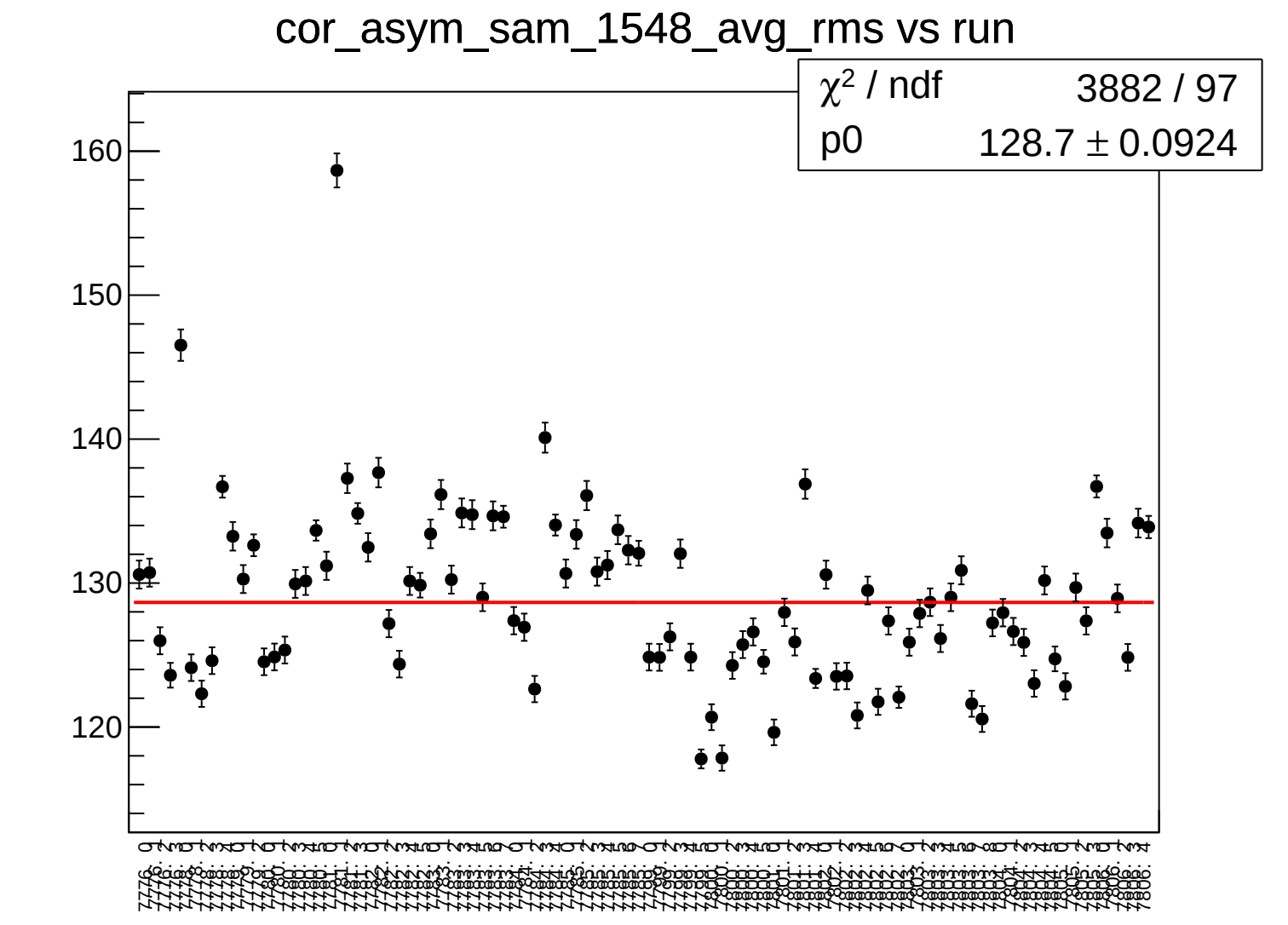

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 69.63 / 97
p0 −717.7 ± 1428
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −453.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

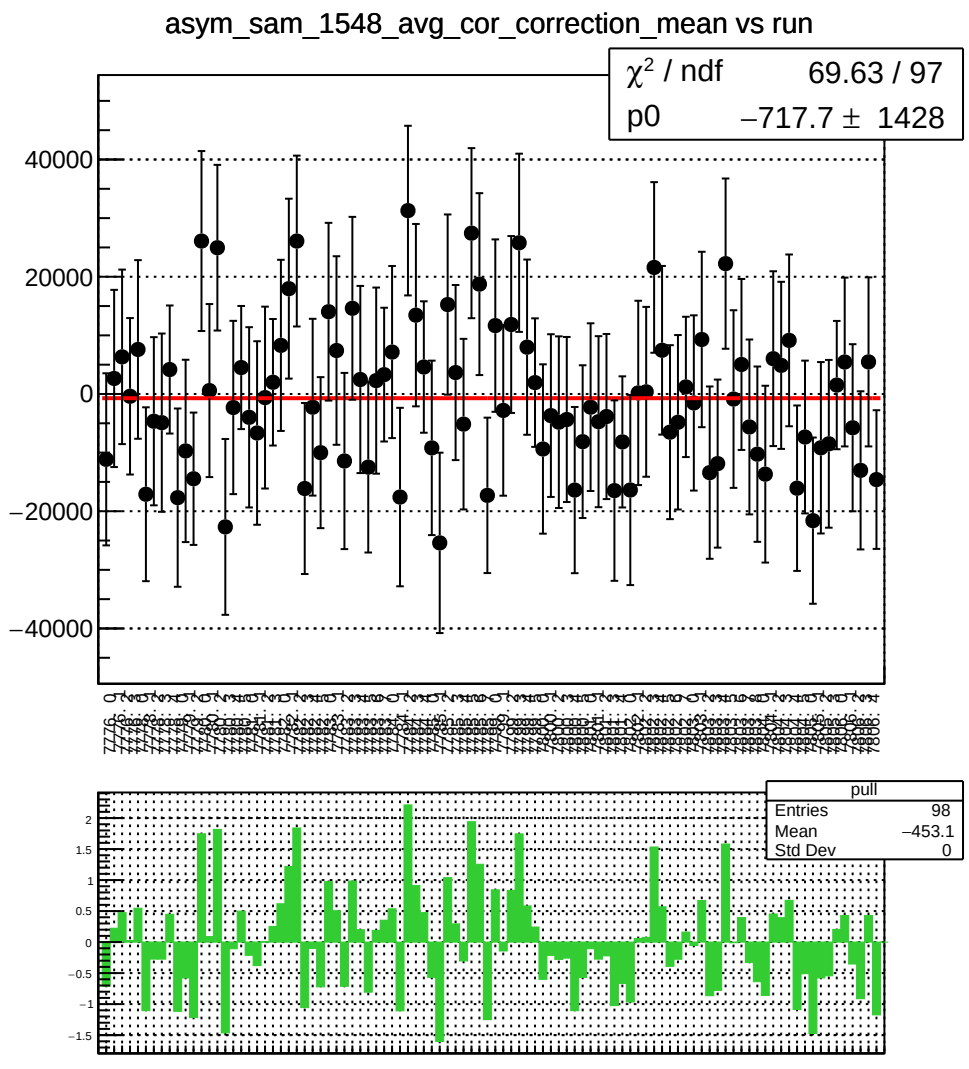

pull1D
Entries 98
Mean 0.006016
Std Dev 0.8429
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

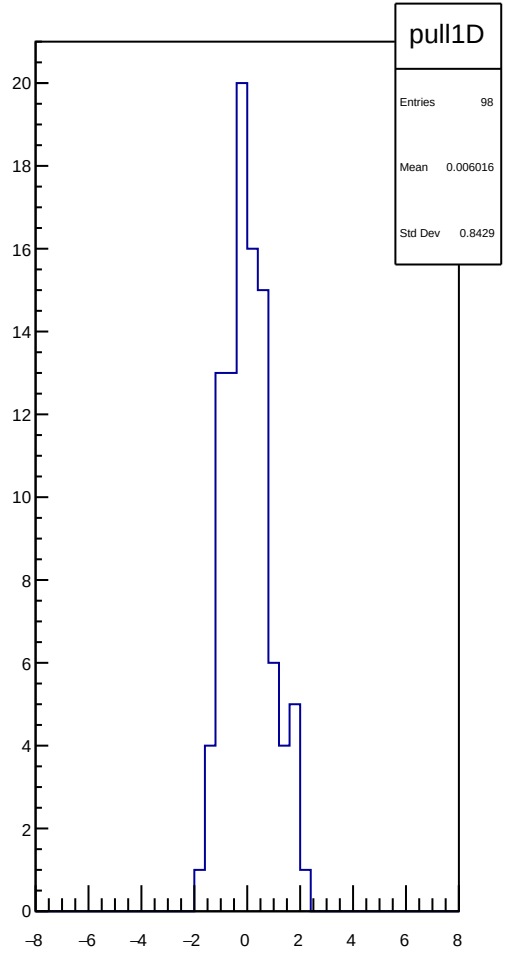

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 2080 / 97
p0 1407 ± 1.01
1550
1500
1450
1400
1350
1300
1250

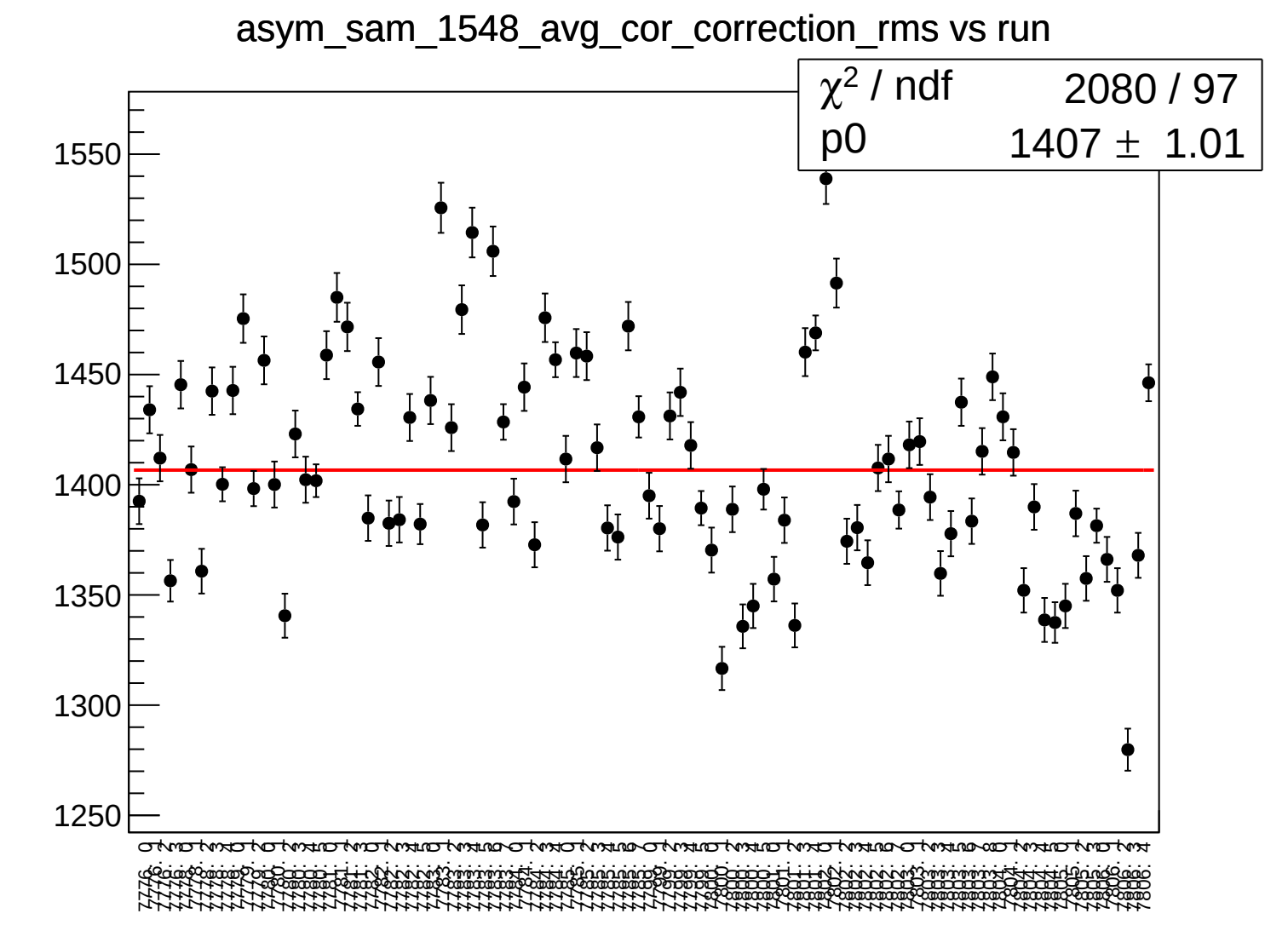

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 99.7 / 97
p0 54.46 ± 130.7
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 17.81
Std Dev 75.79
2
1
0
−1
−2

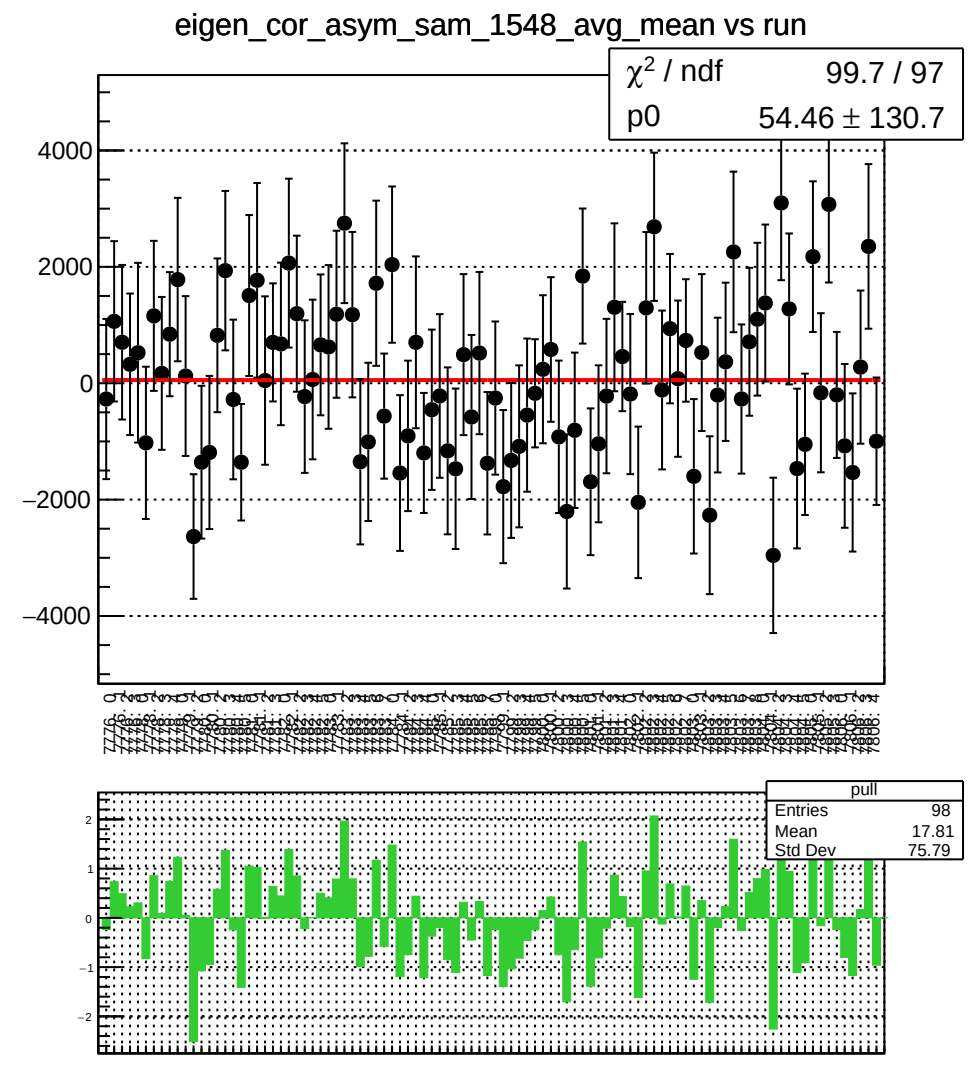

pull1D
Entries 98
Mean 0.01754
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

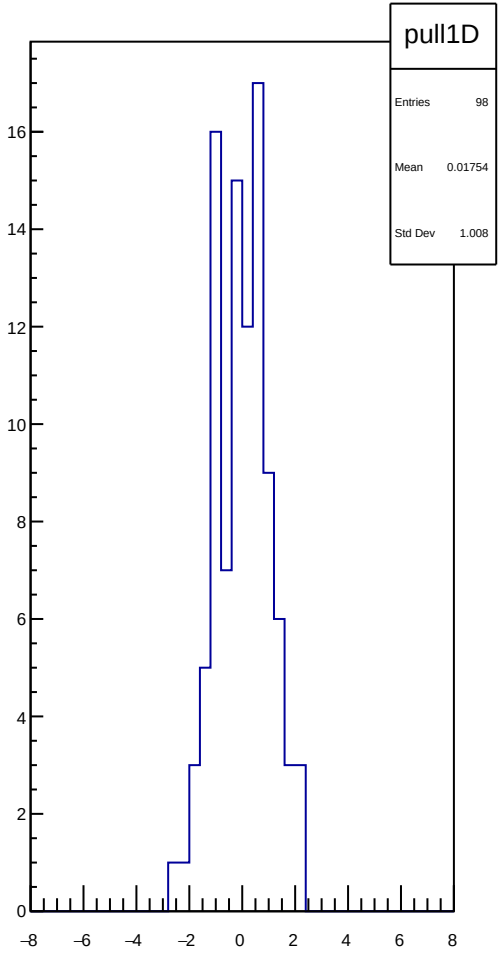

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 3882 / 97
p0 128.7 ± 0.0924
160
150
140
130
120

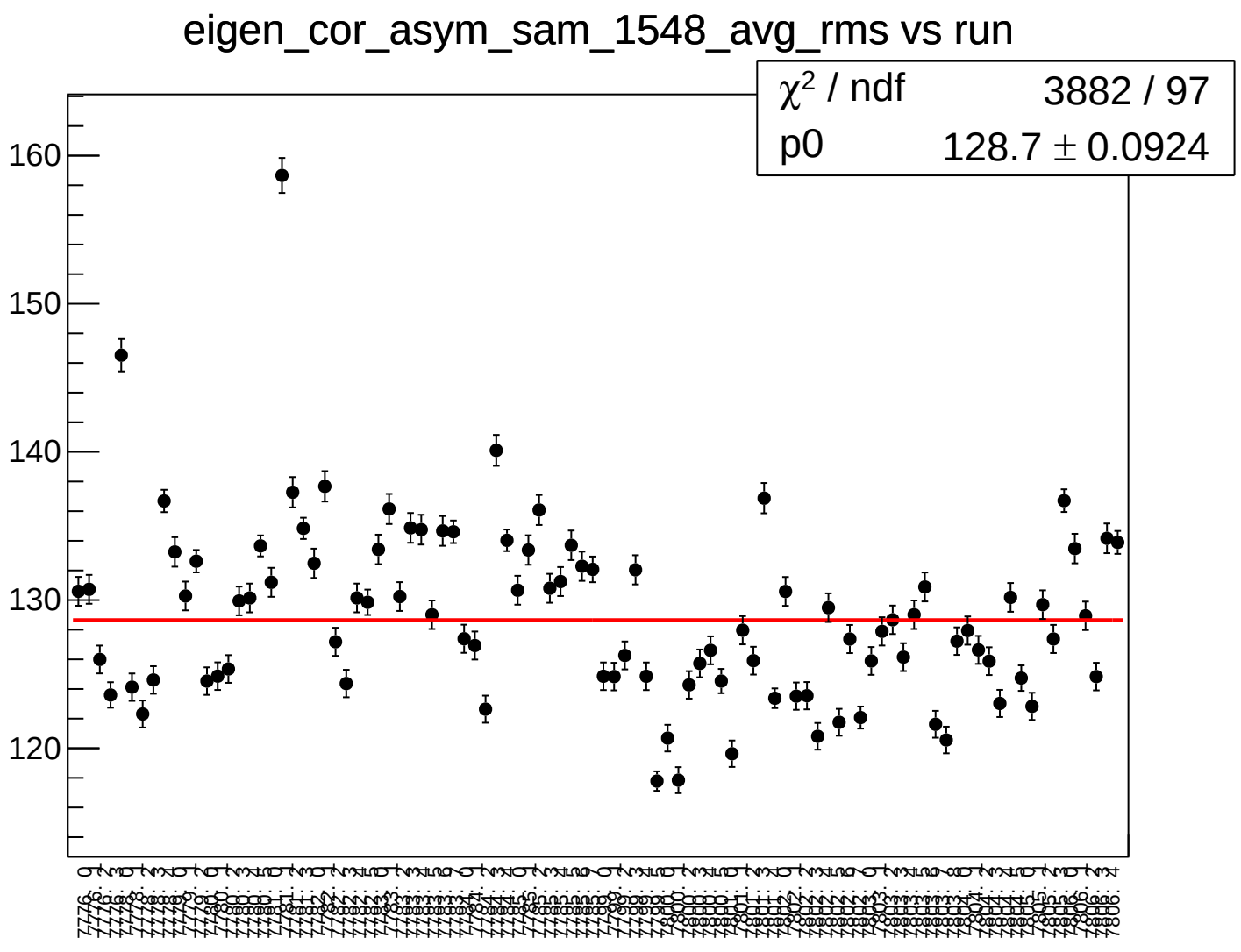

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 69.63 / 97
p0 −717.7 ± 1428
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −453.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

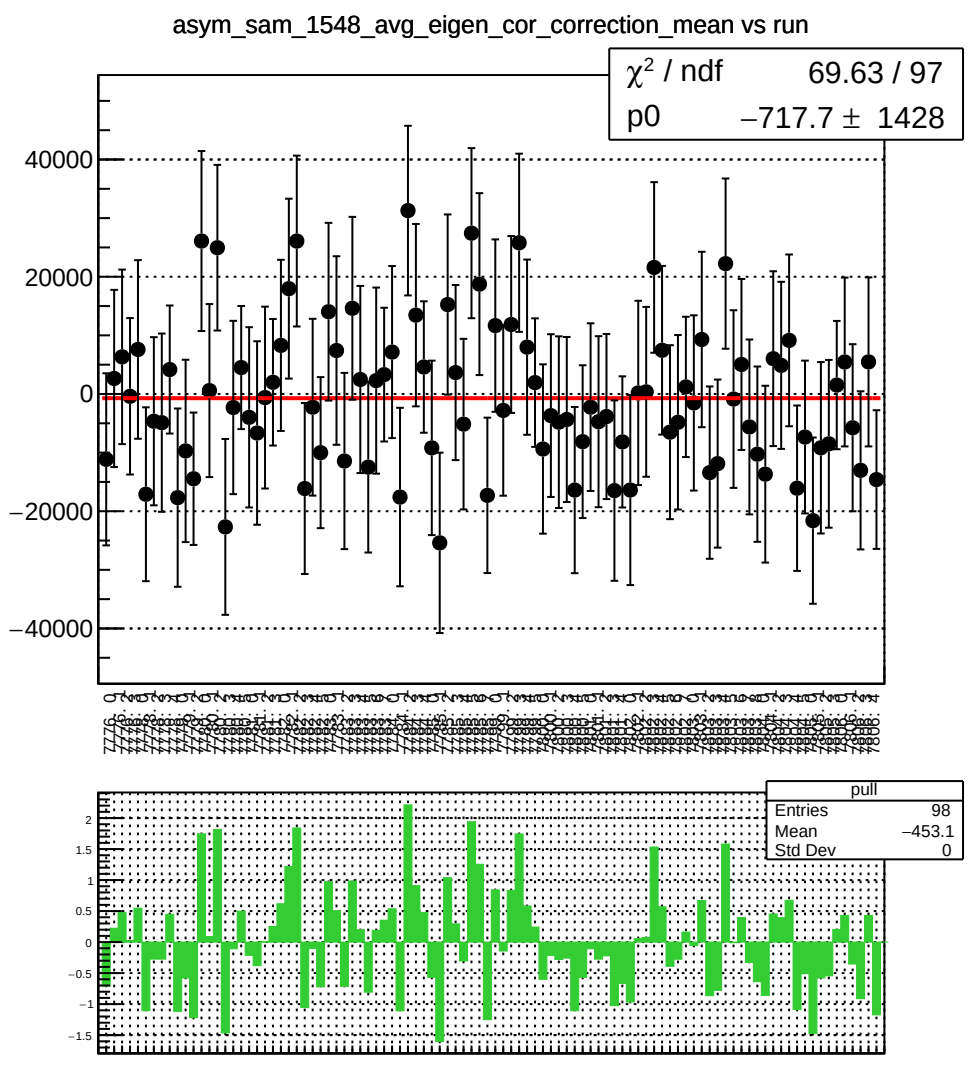

pull1D
Entries 98
Mean 0.006016
Std Dev 0.8429
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

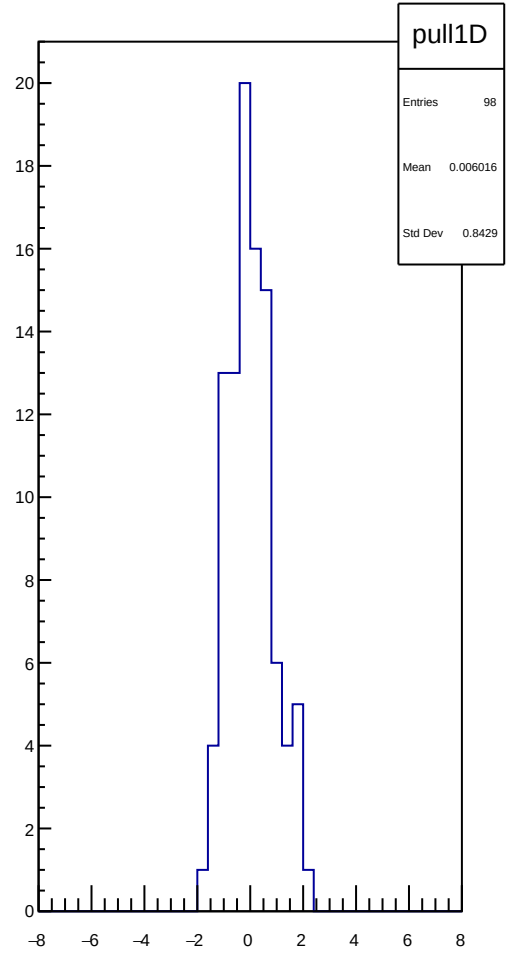

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 2080 / 97
p0 1407 ± 1.01
1550
1500
1450
1400
1350
1300
1250

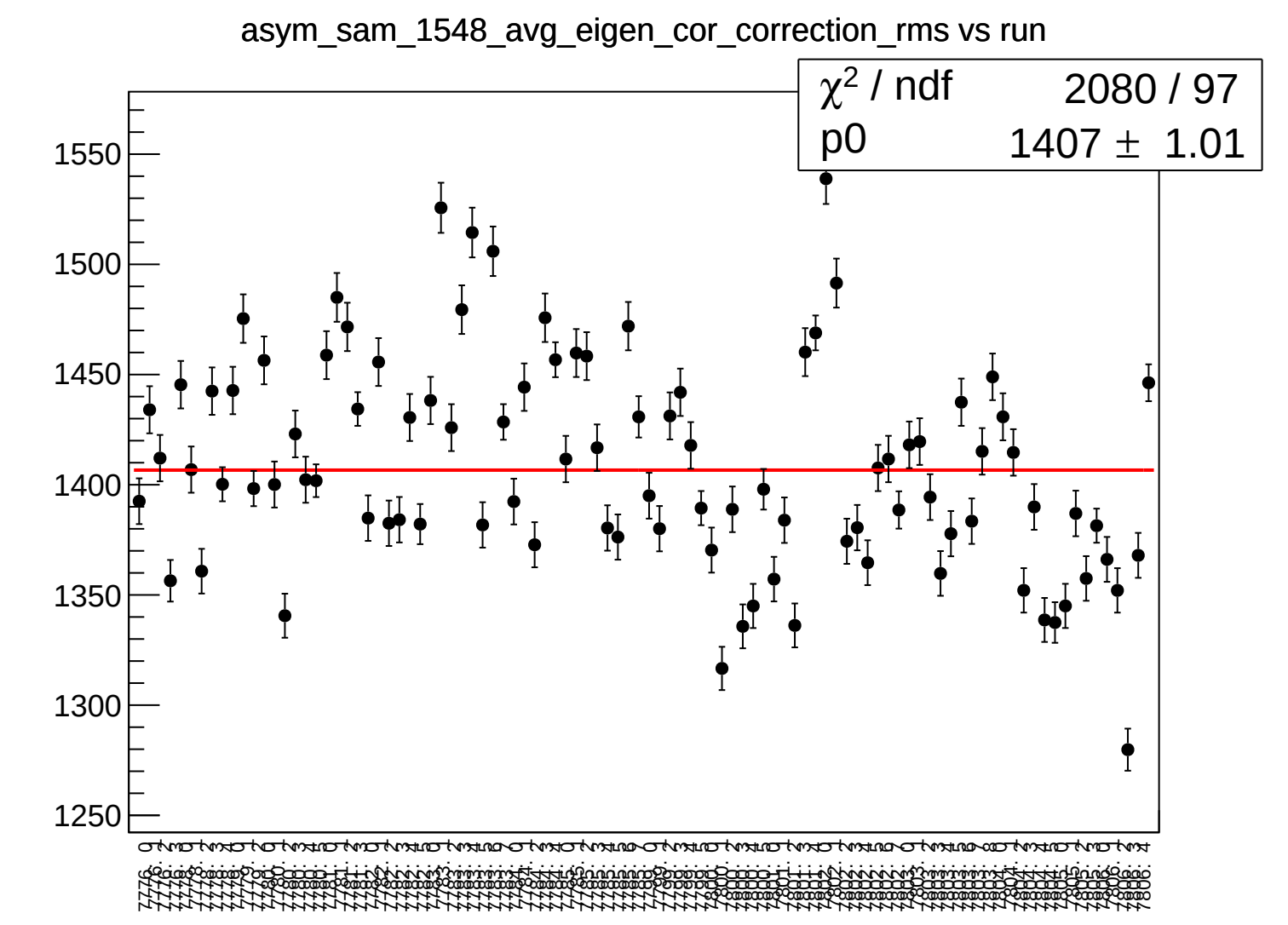

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 99.7 / 97
p0 54.46 ± 130.7
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 17.81
Std Dev 75.79
2
1
0
−1
−2

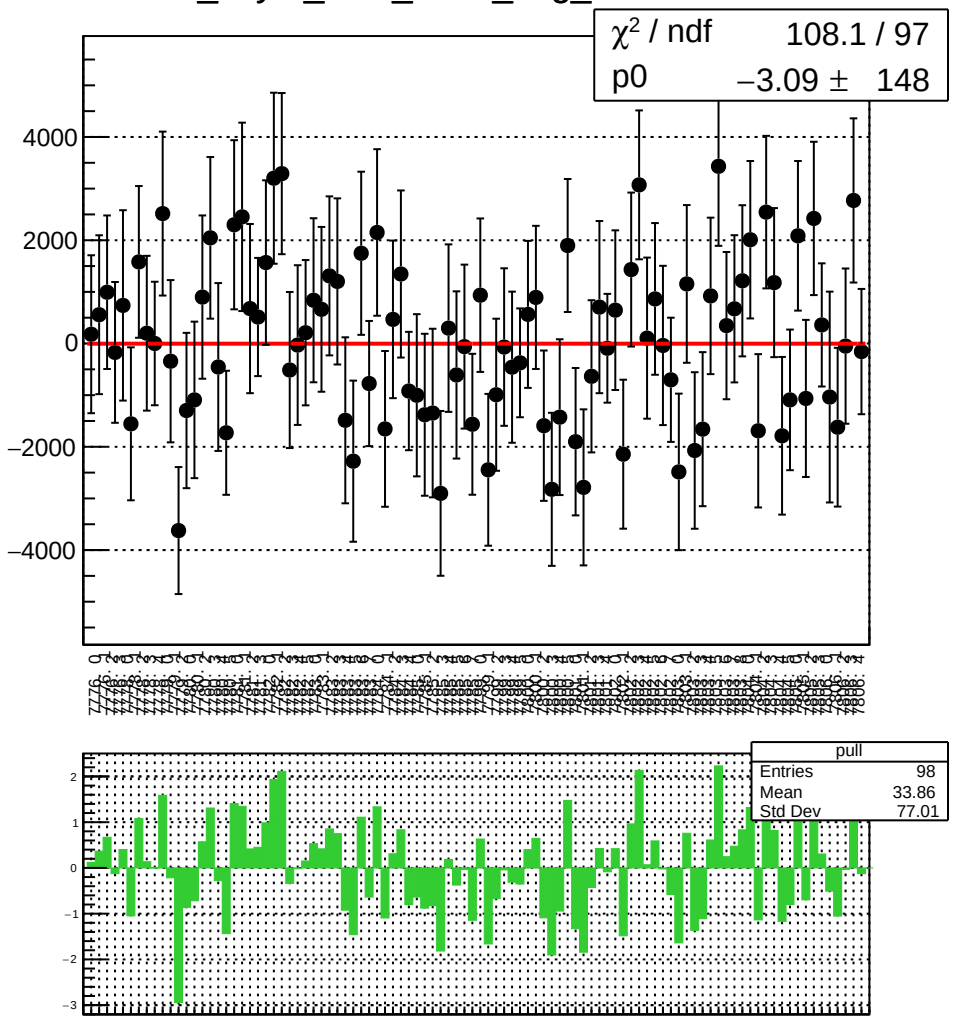

pull1D
Entries 98
Mean 0.01754
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

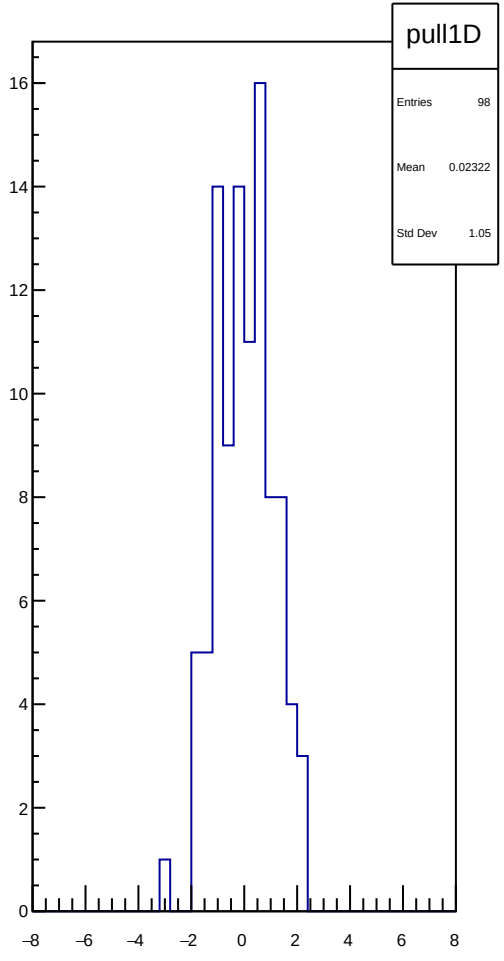

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 3882 / 97
p0 128.7 ± 0.0924
160
150
140
130
120

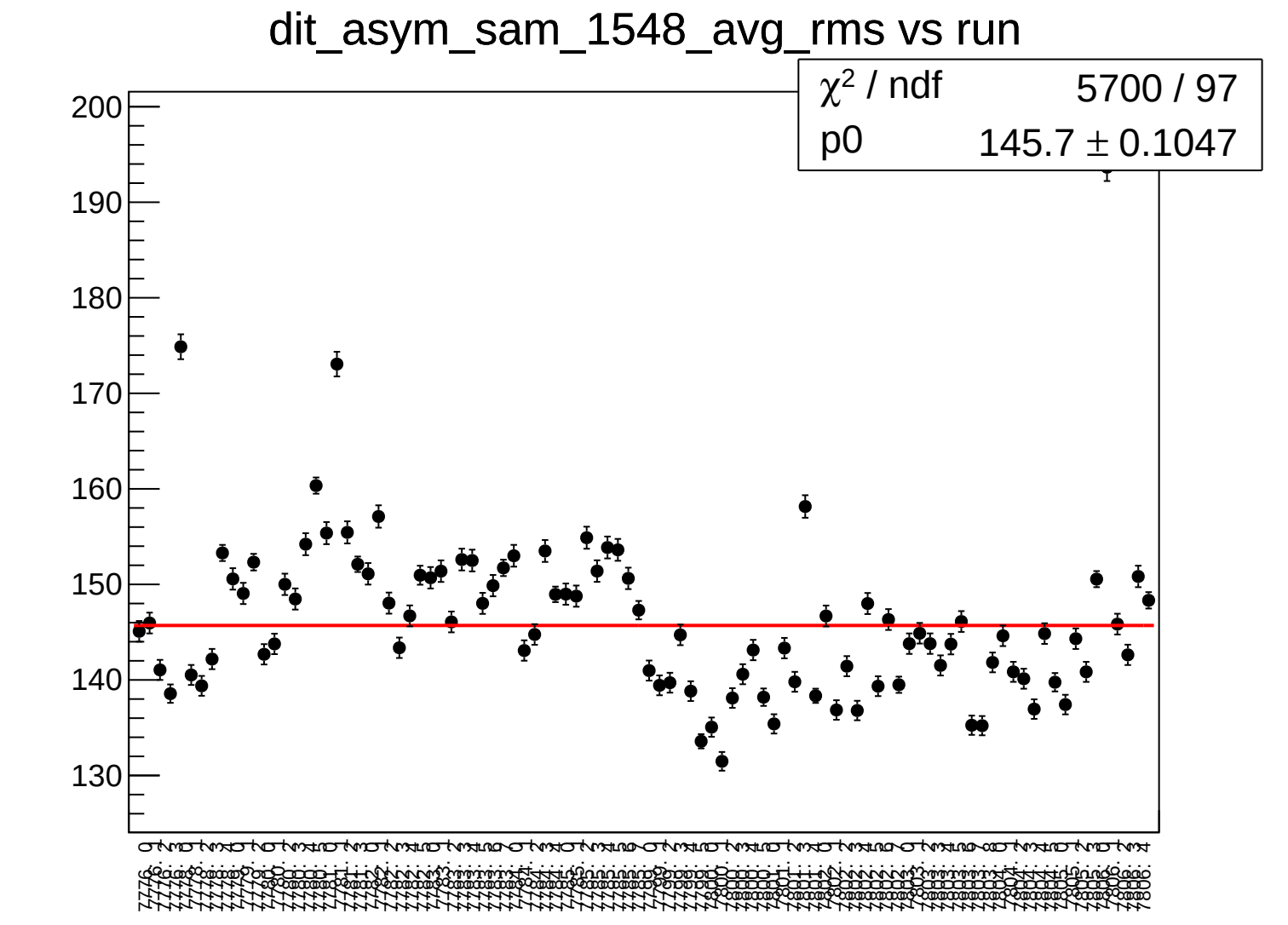

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.63 / 97
p0 −717.7 ± 1428
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −453.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

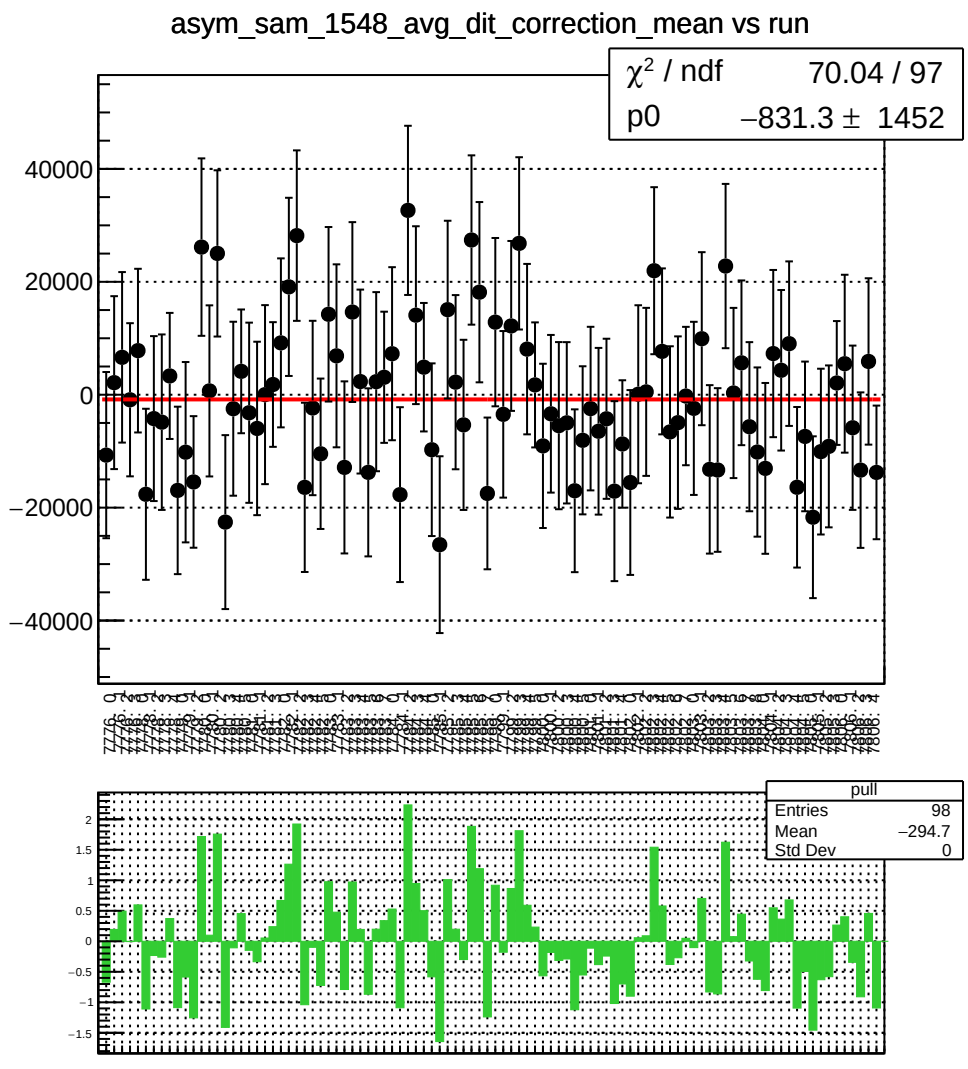

pull1D
Entries 98
Mean 0.006016
Std Dev 0.8429
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

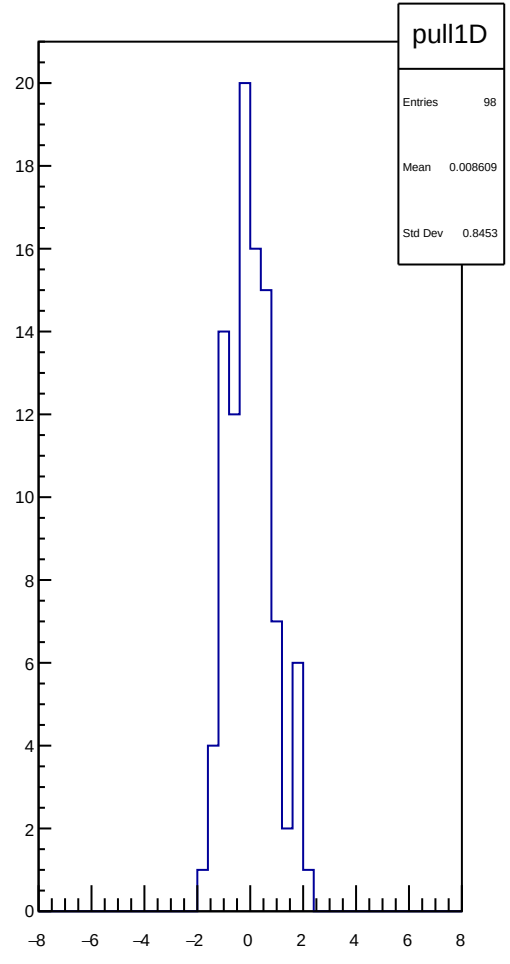

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 2080 / 97
p0 1407 ± 1.01
1550
1500
1450
1400
1350
1300
1250

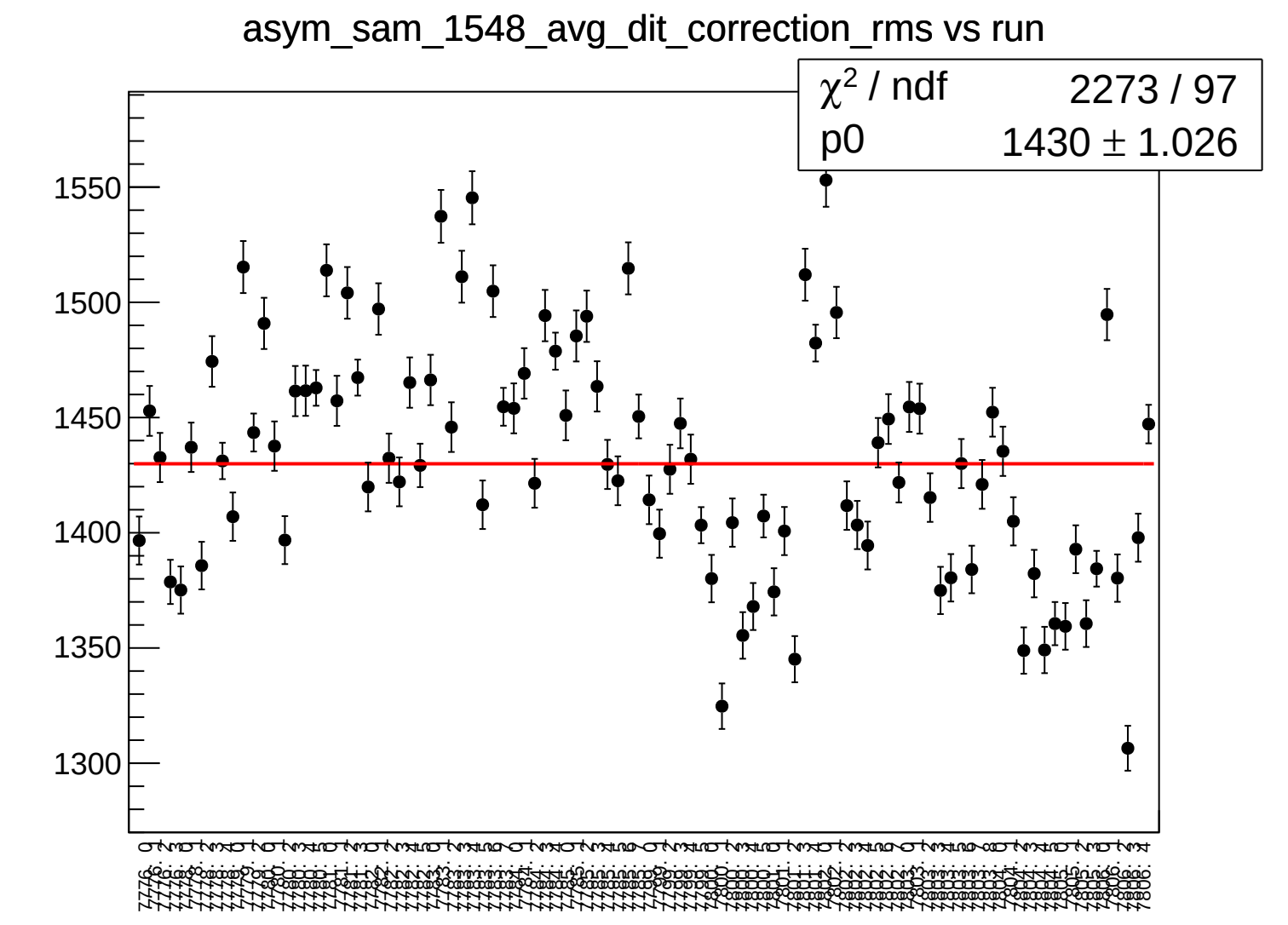

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 108.1 / 97
p0 −3.09 ± 148
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 33.86
Std Dev 77.01
2
1
0
−1
−2
−3

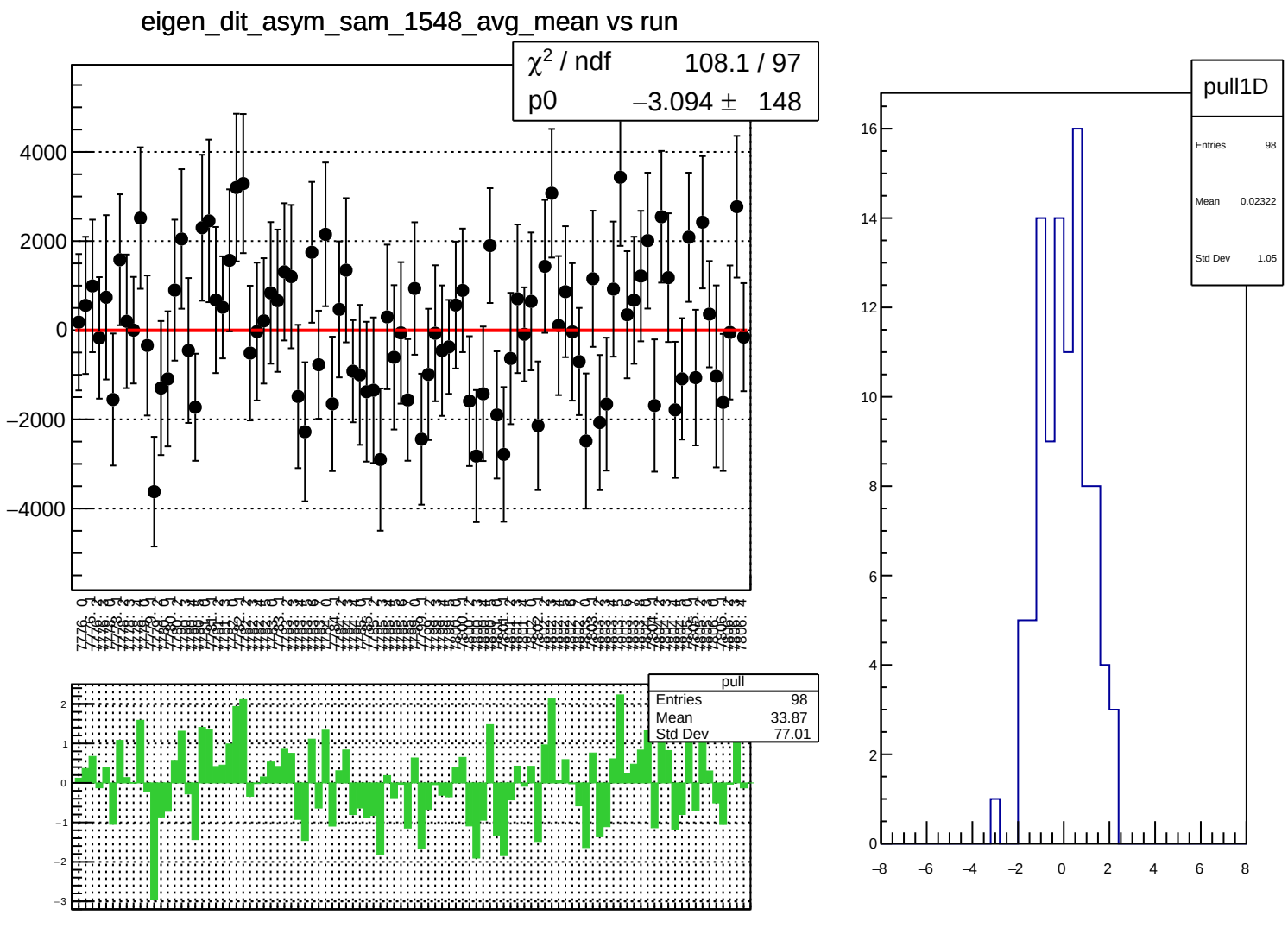

pull1D
Entries 98
Mean 0.02322
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

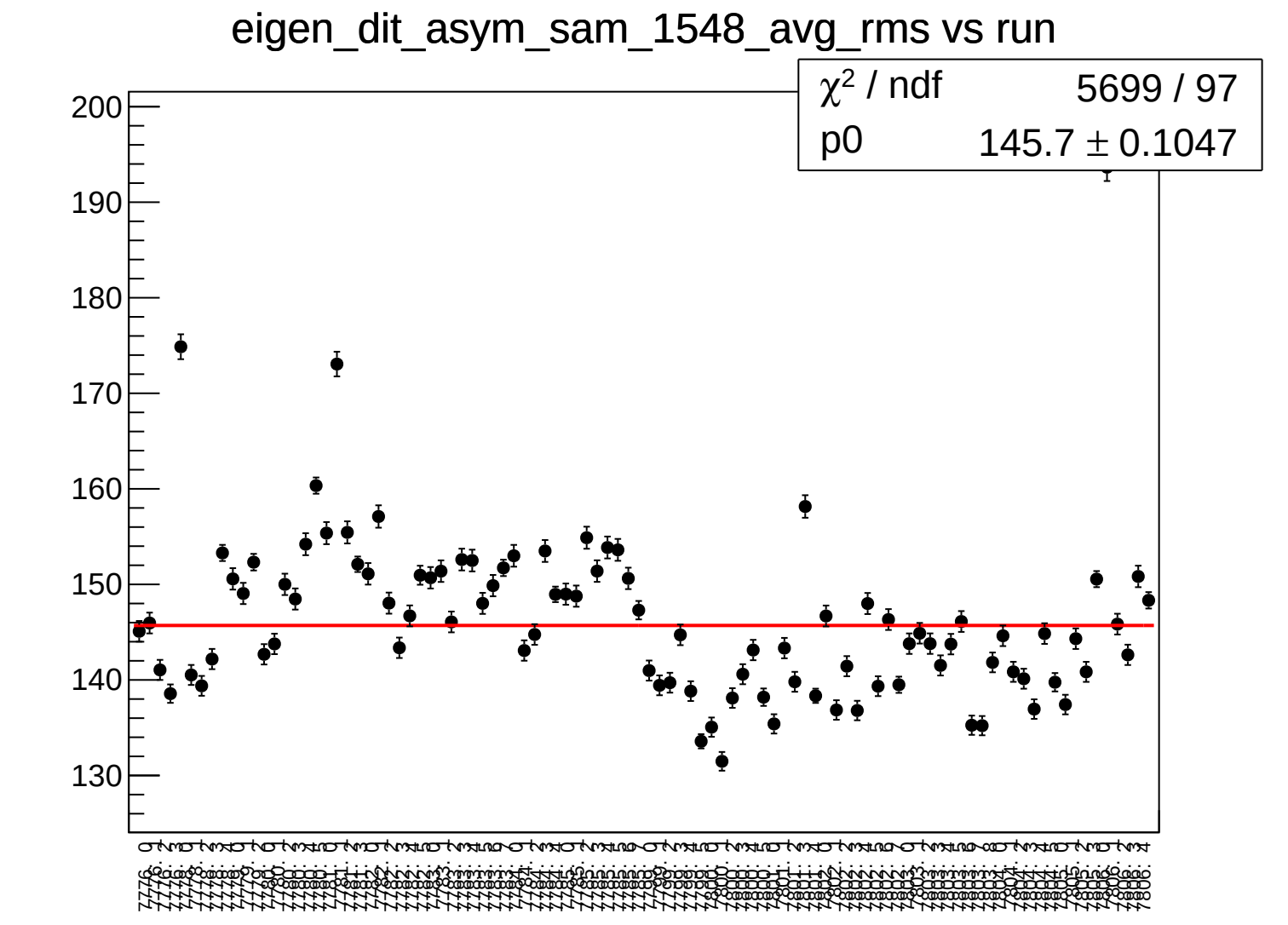

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 5700 / 97
p0 145.7 ± 0.1047
200
190
180
170
160
150
140
130

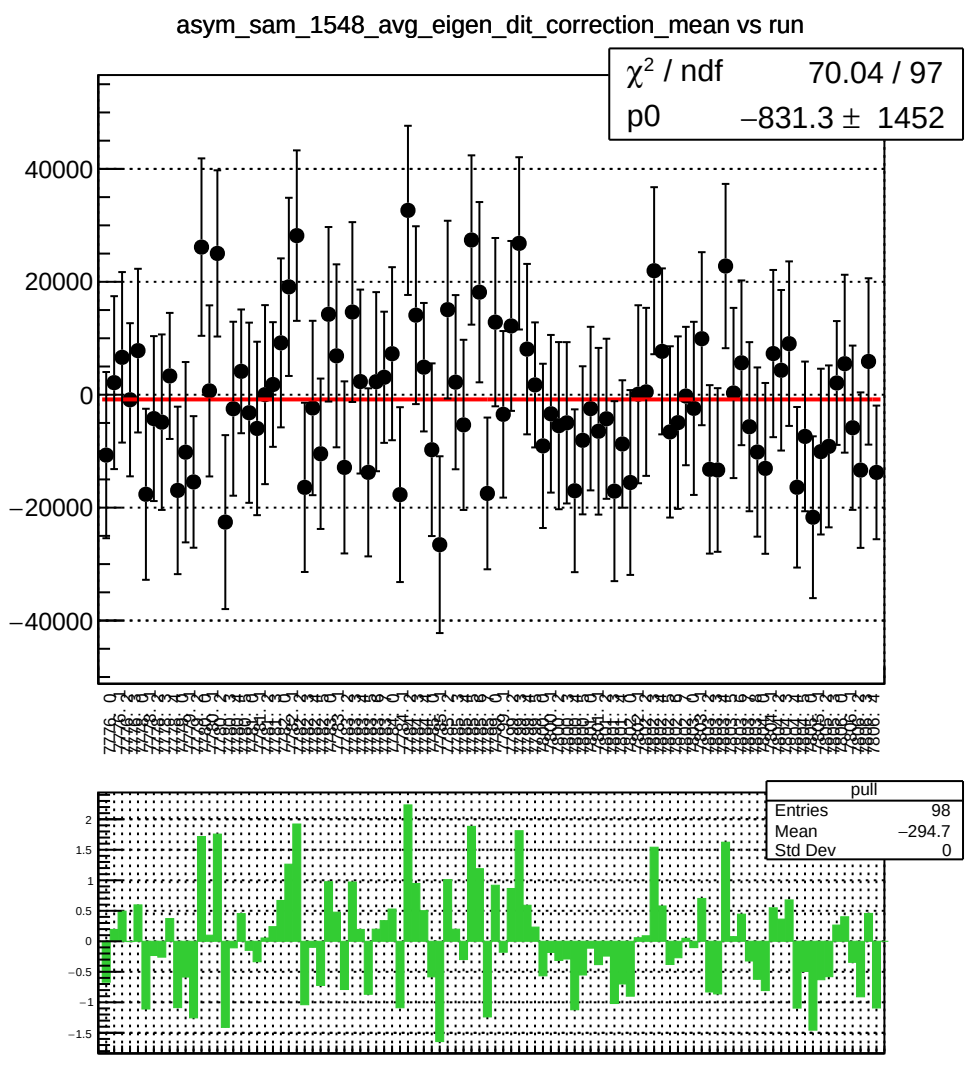

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 70.04 / 97
p0 −831.3 ± 1452
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −294.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

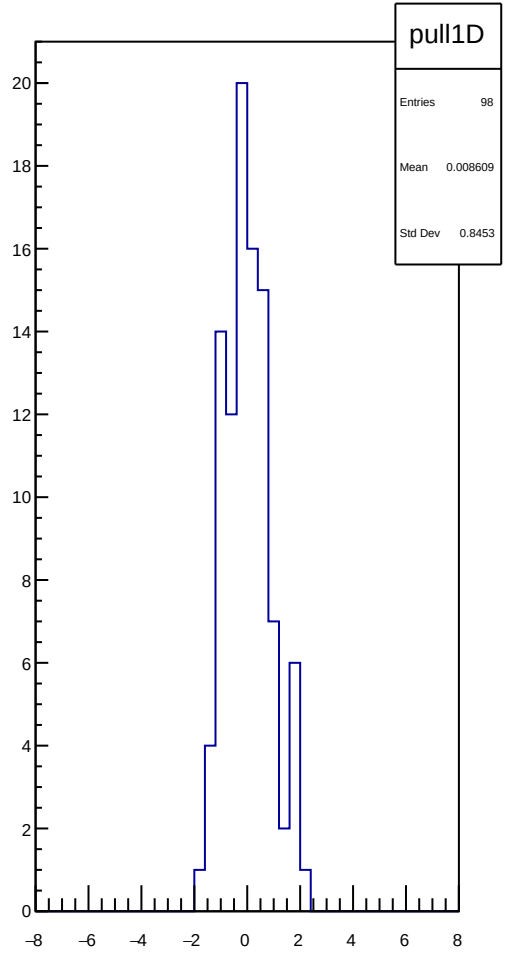

pull1D
Entries 98
Mean 0.008609
Std Dev 0.8453
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

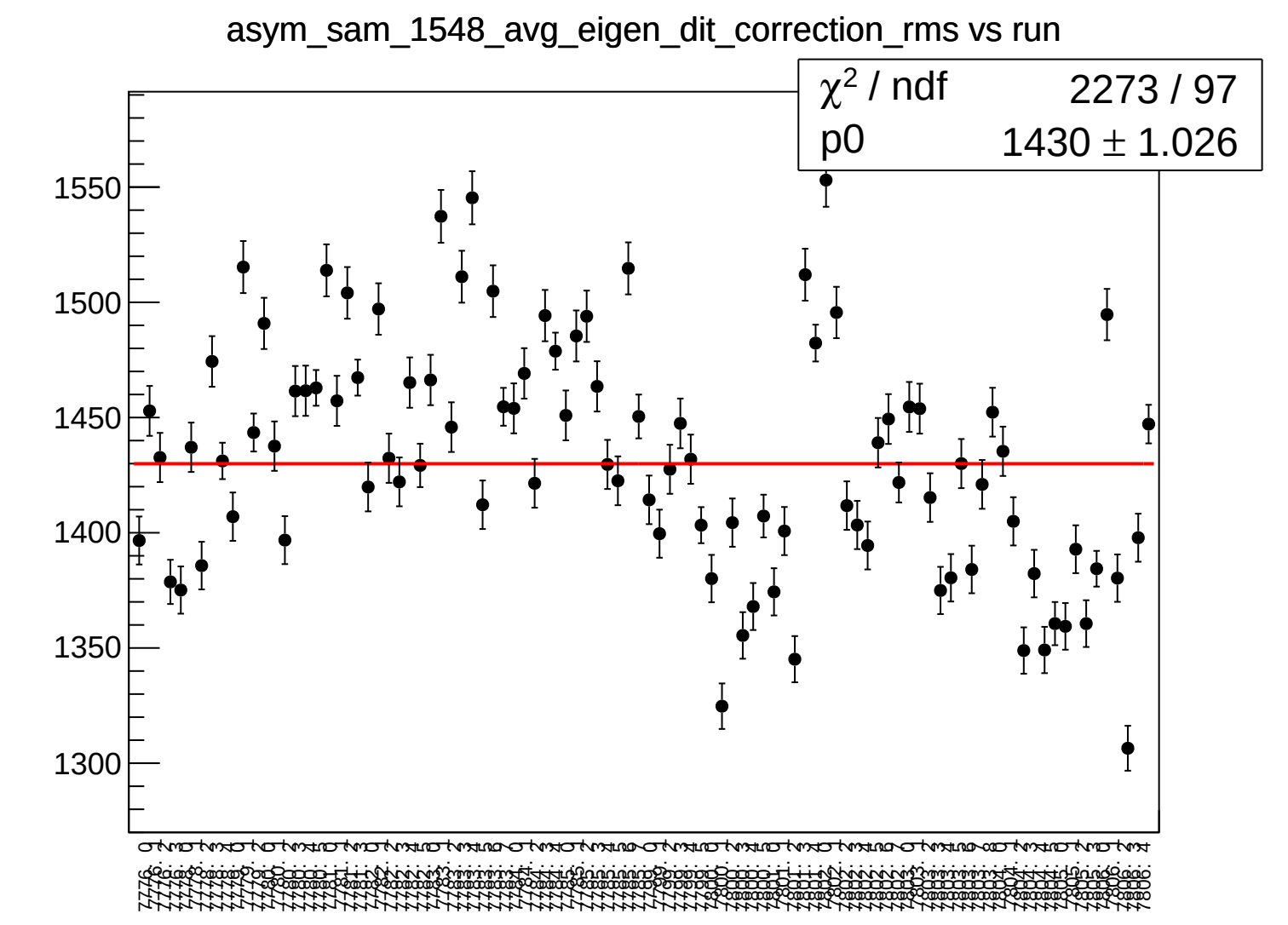

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 2273 / 97
p0 1430 ± 1.026
1550
1500
1450
1400
1350
1300

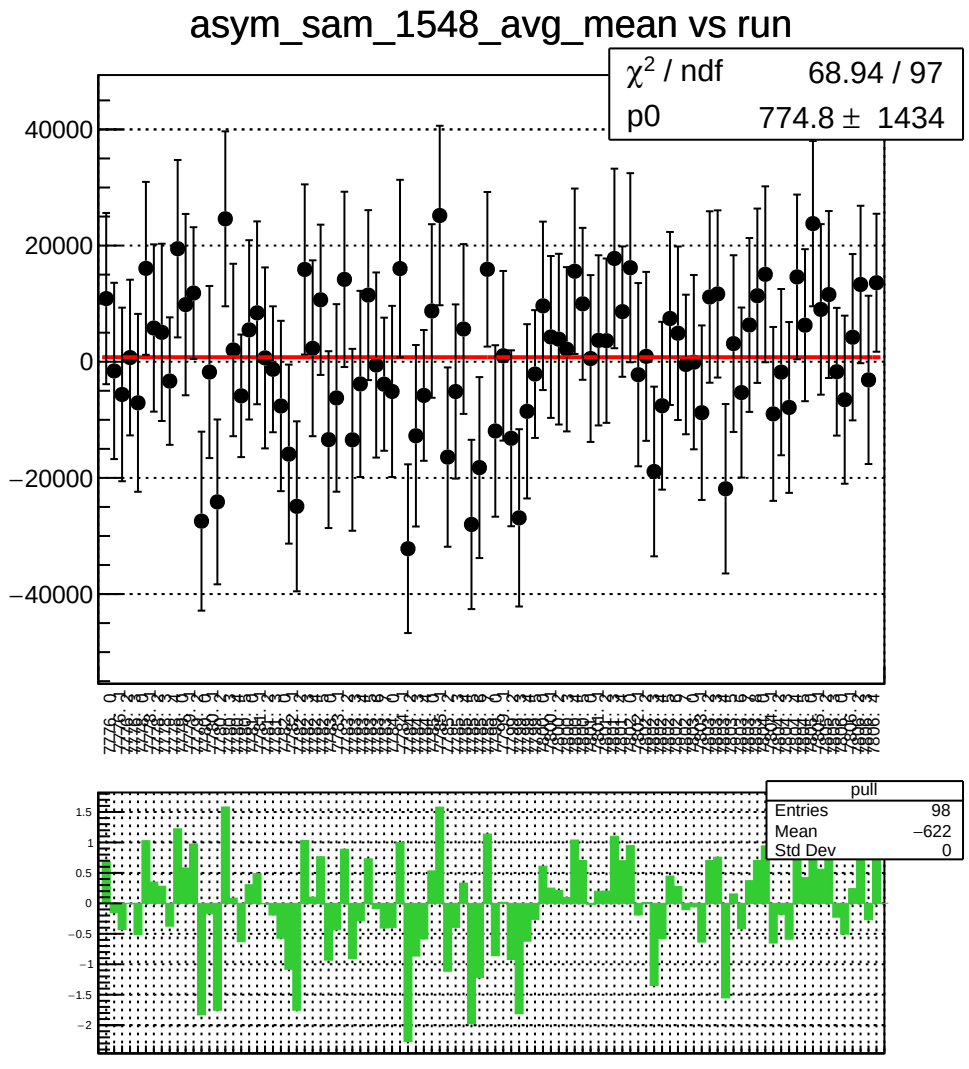

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 108.1 / 97
p0 −3.094 ± 148
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 33.87
Std Dev 77.01
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.02322
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

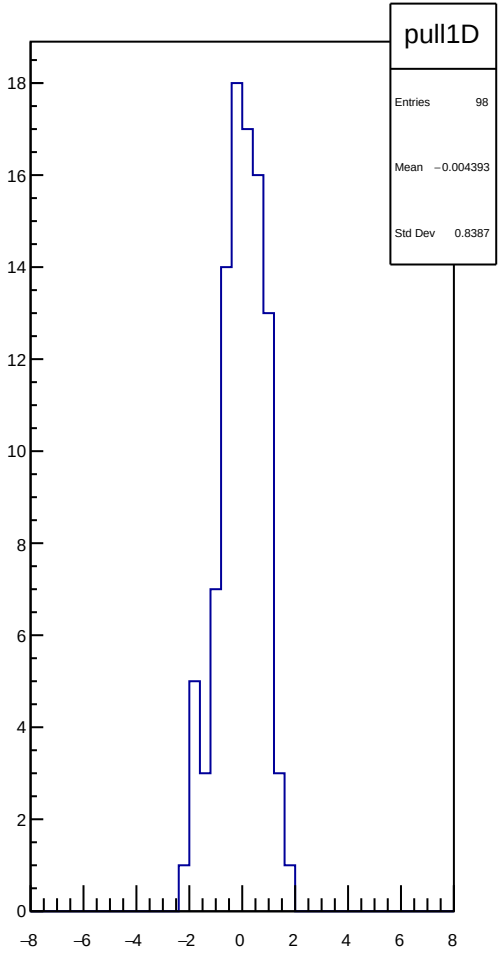

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 5699 / 97
p0 145.7 ± 0.1047
200
190
180
170
160
150
140
130

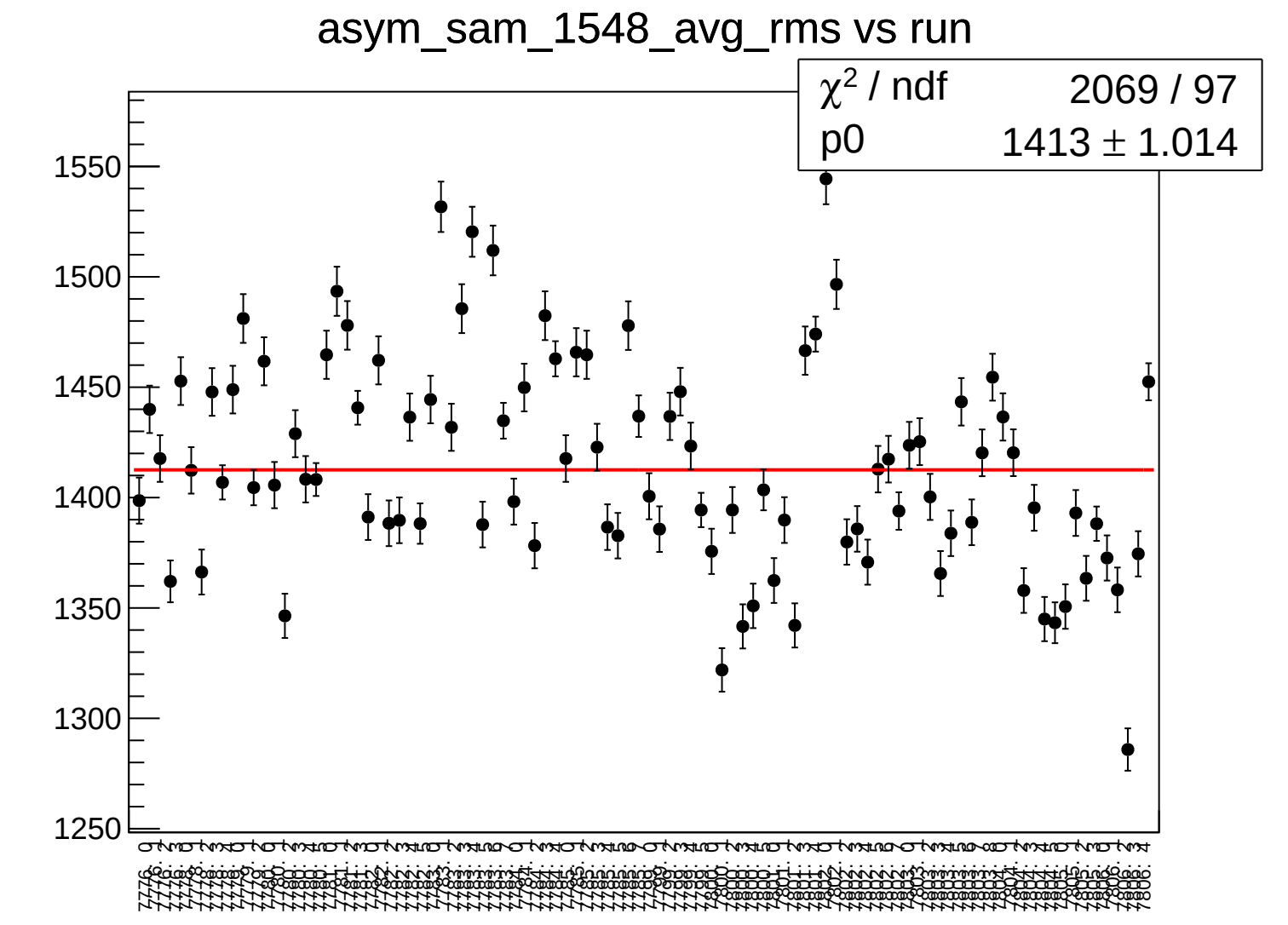

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.04 / 97
p0 −831.3 ± 1452
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −294.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

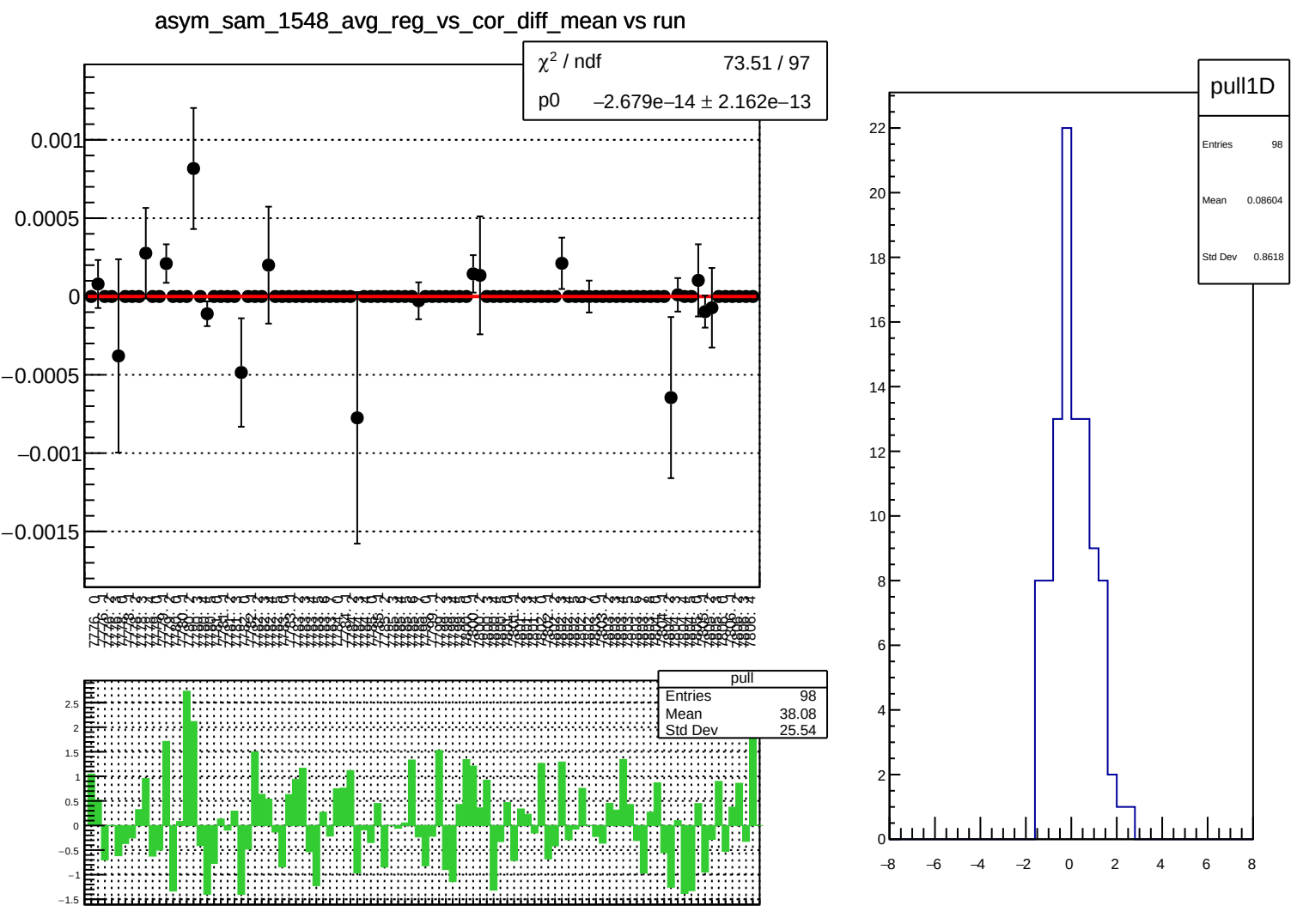

pull1D
Entries 98
Mean 0.008609
Std Dev 0.8453
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

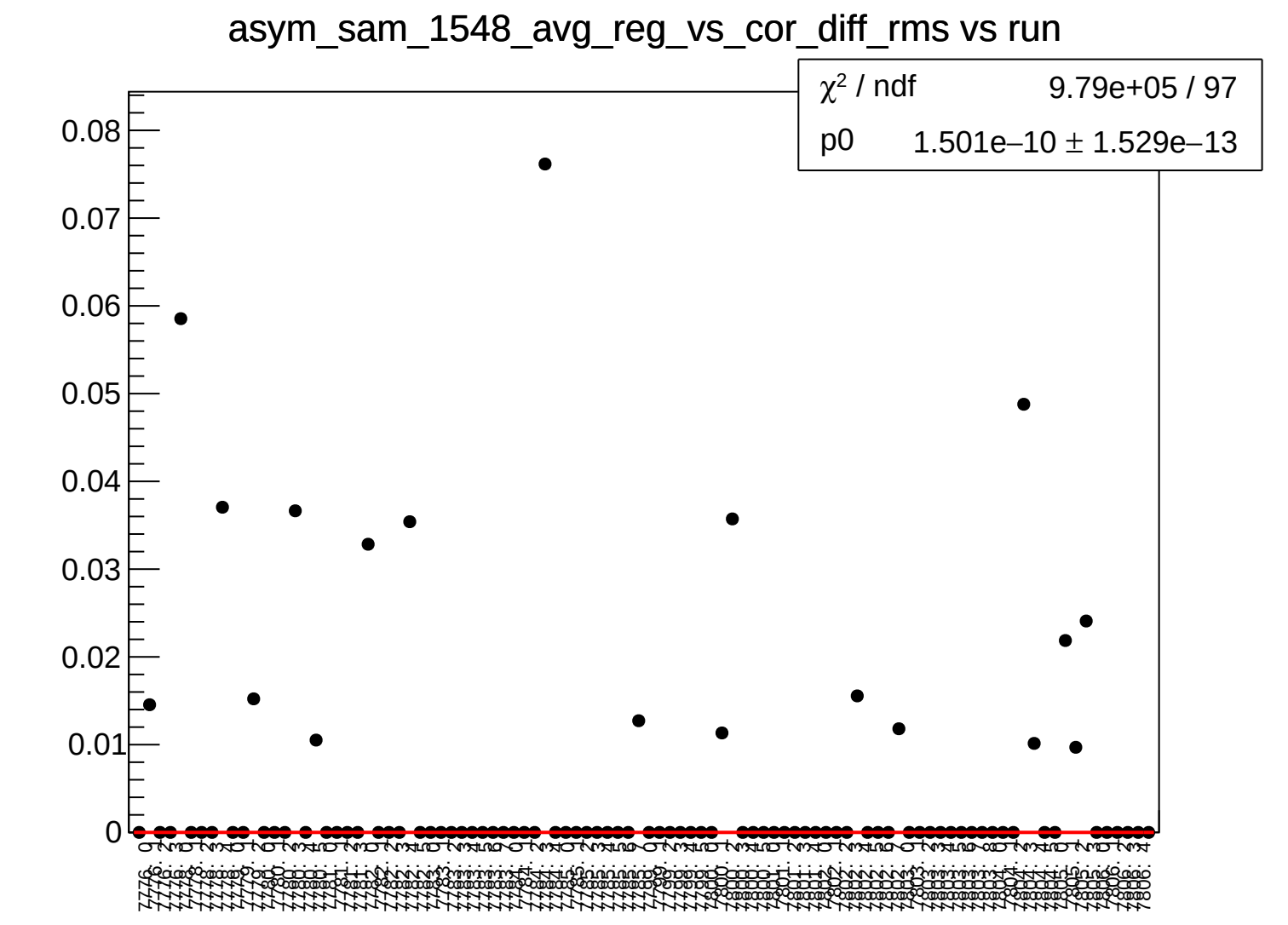

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 2273 / 97
p0 1430 ± 1.026
1550
1500
1450
1400
1350
1300

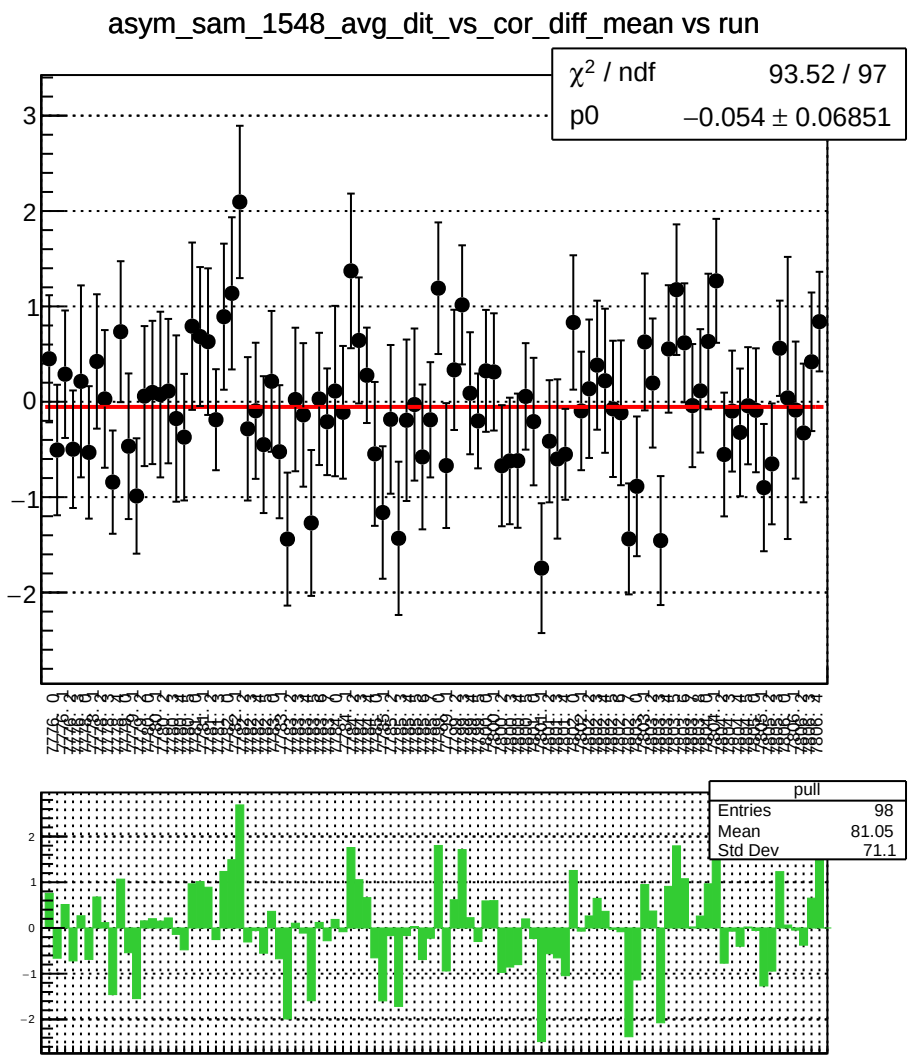

asym_sam_1548_avg_mean vs run
χ² / ndf 68.94 / 97
p0 774.8 ± 1434
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −622
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

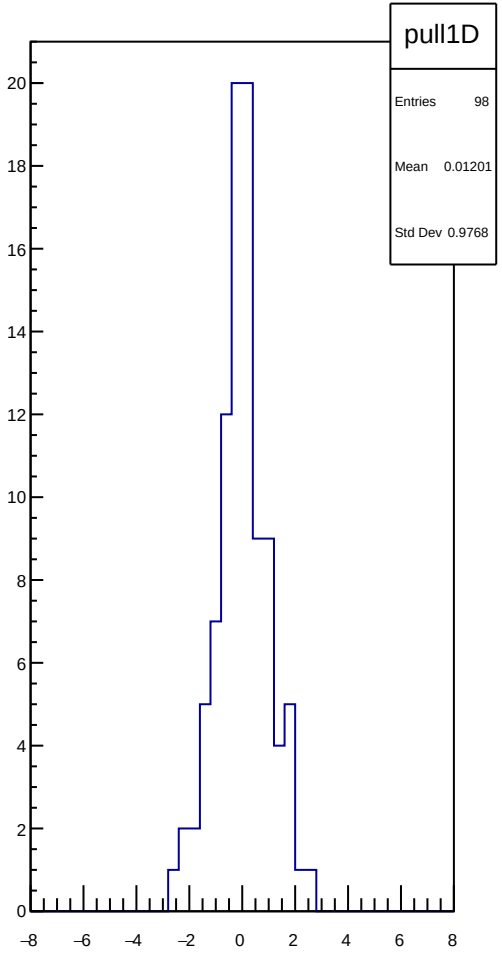

pull1D
Entries 98
Mean −0.004393
Std Dev 0.8387
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

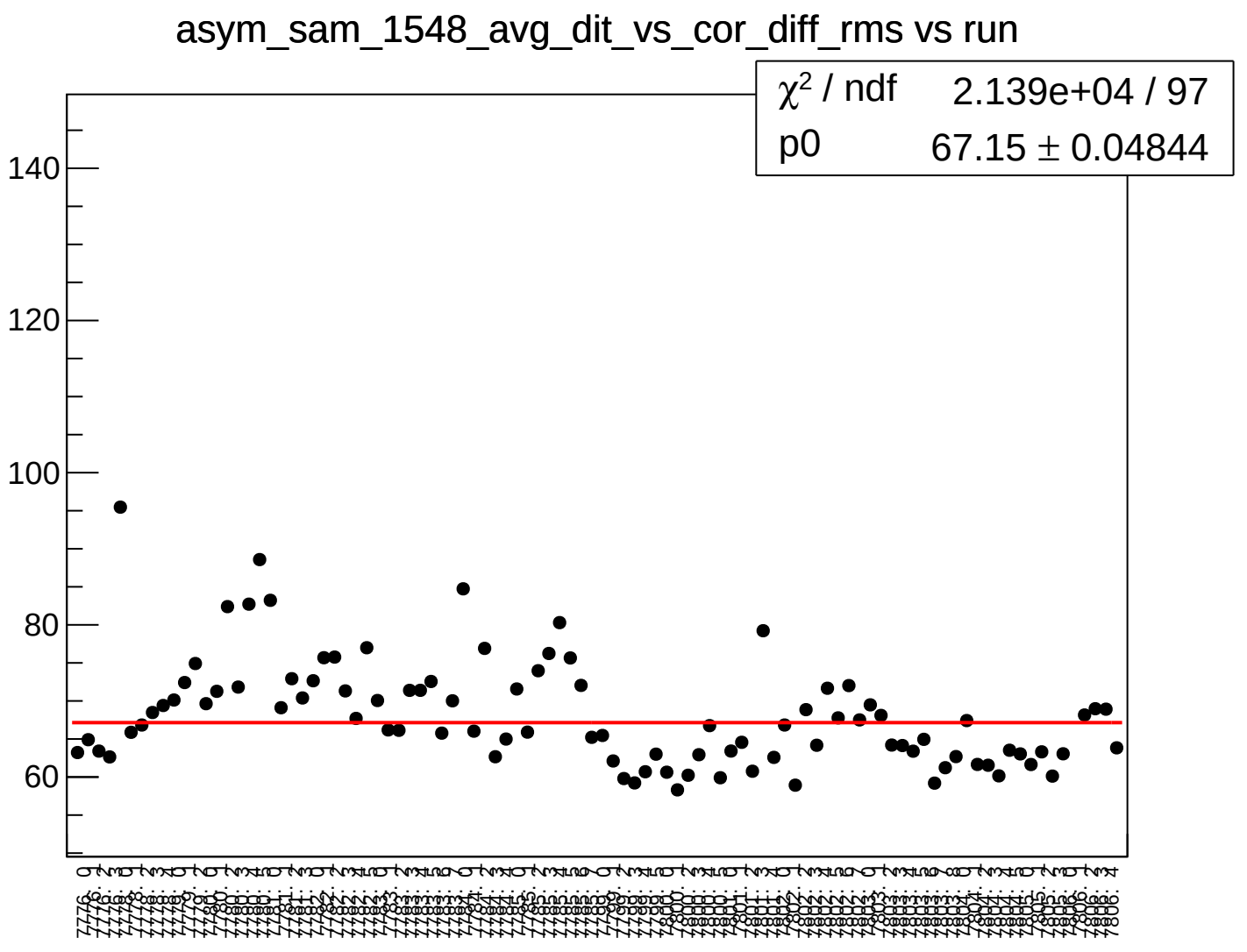

asym_sam_1548_avg_rms vs run
χ² / ndf 2069 / 97
p0 1413 ± 1.014
1550
1500
1450
1400
1350
1300
1250

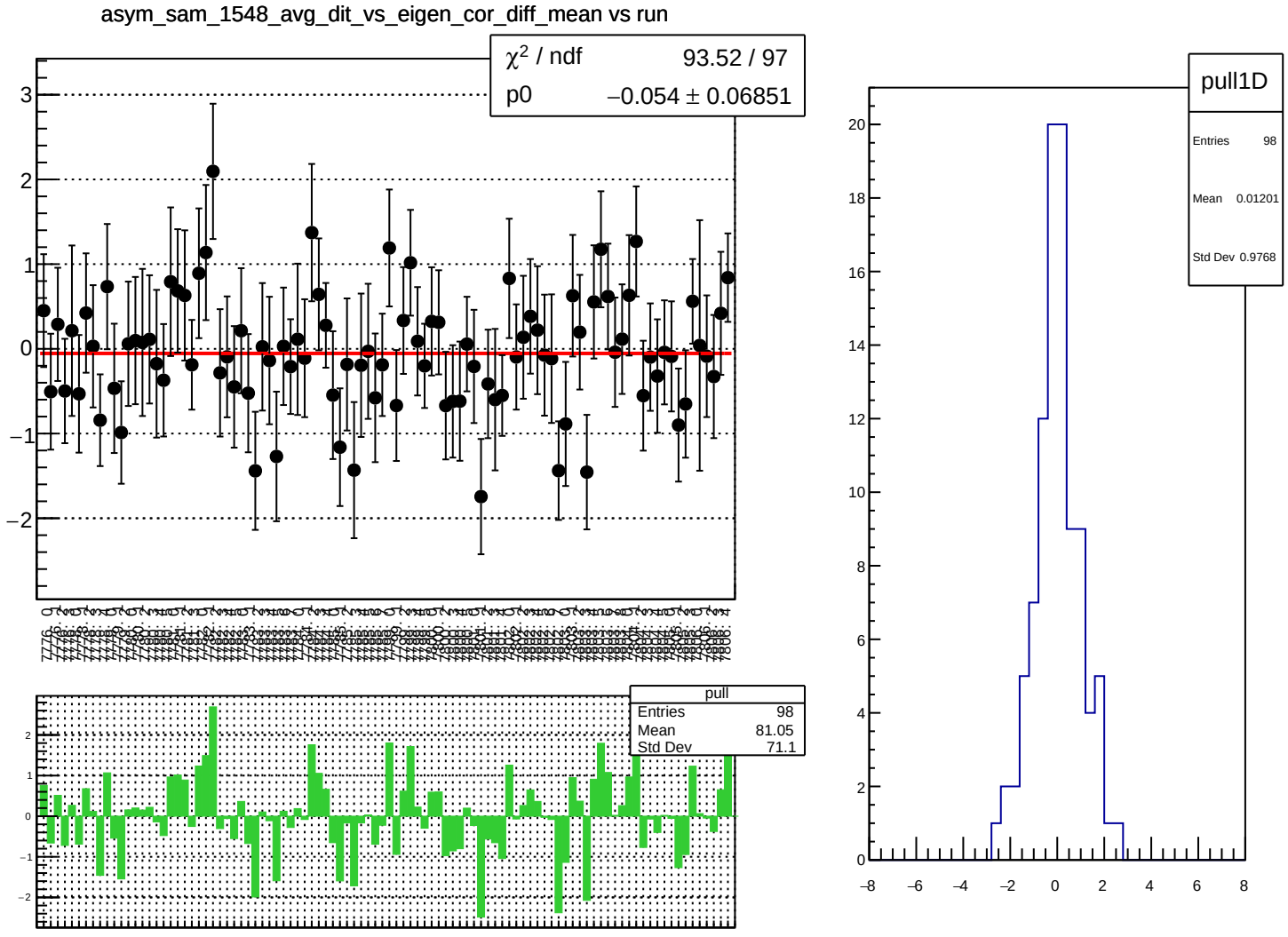

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.51 / 97
p0 −2.679e−14 ± 2.162e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 98
Mean 38.08
Std Dev 25.54
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.08604
Std Dev 0.8618
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

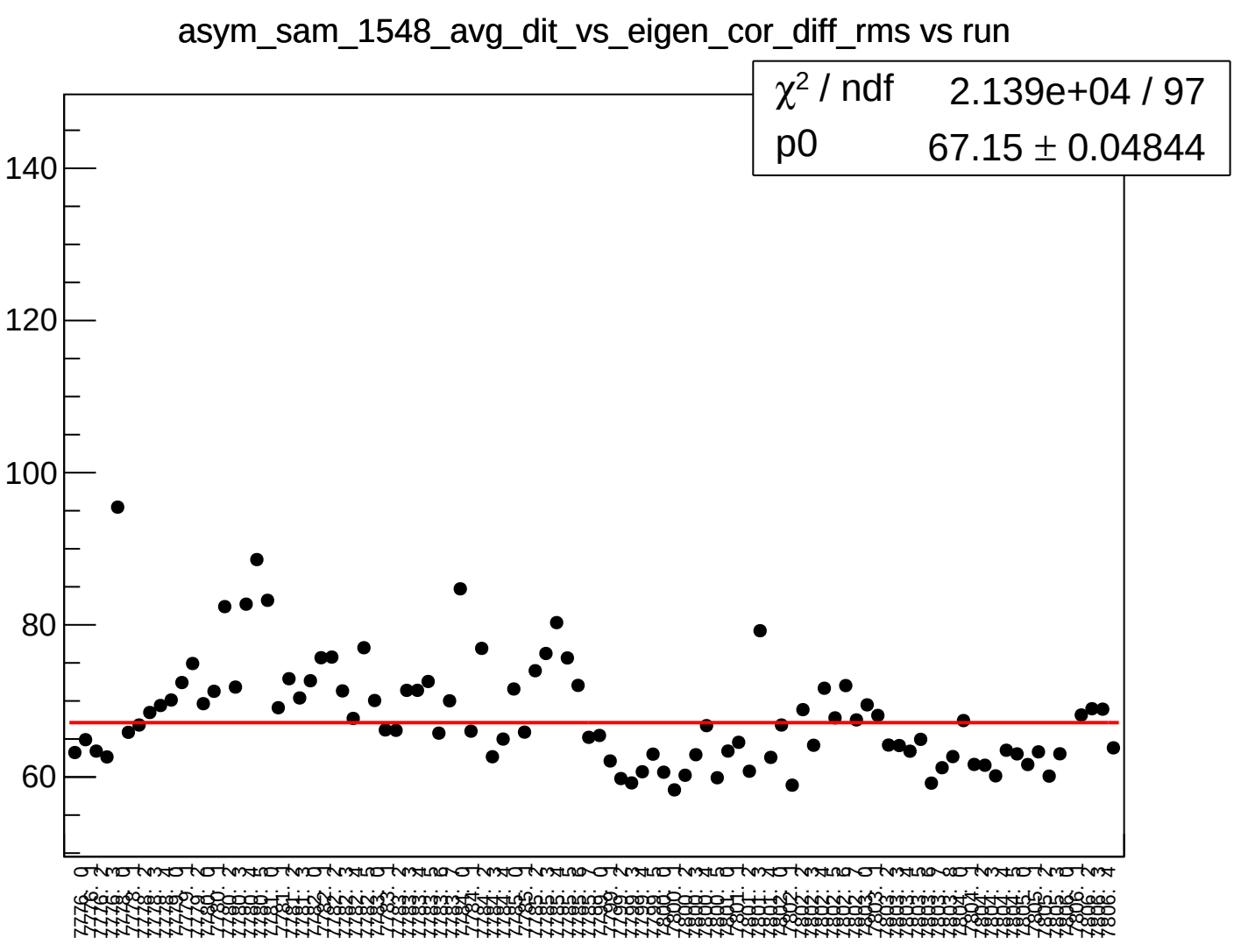

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.79e+05 / 97
p0 1.501e−10 ± 1.529e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

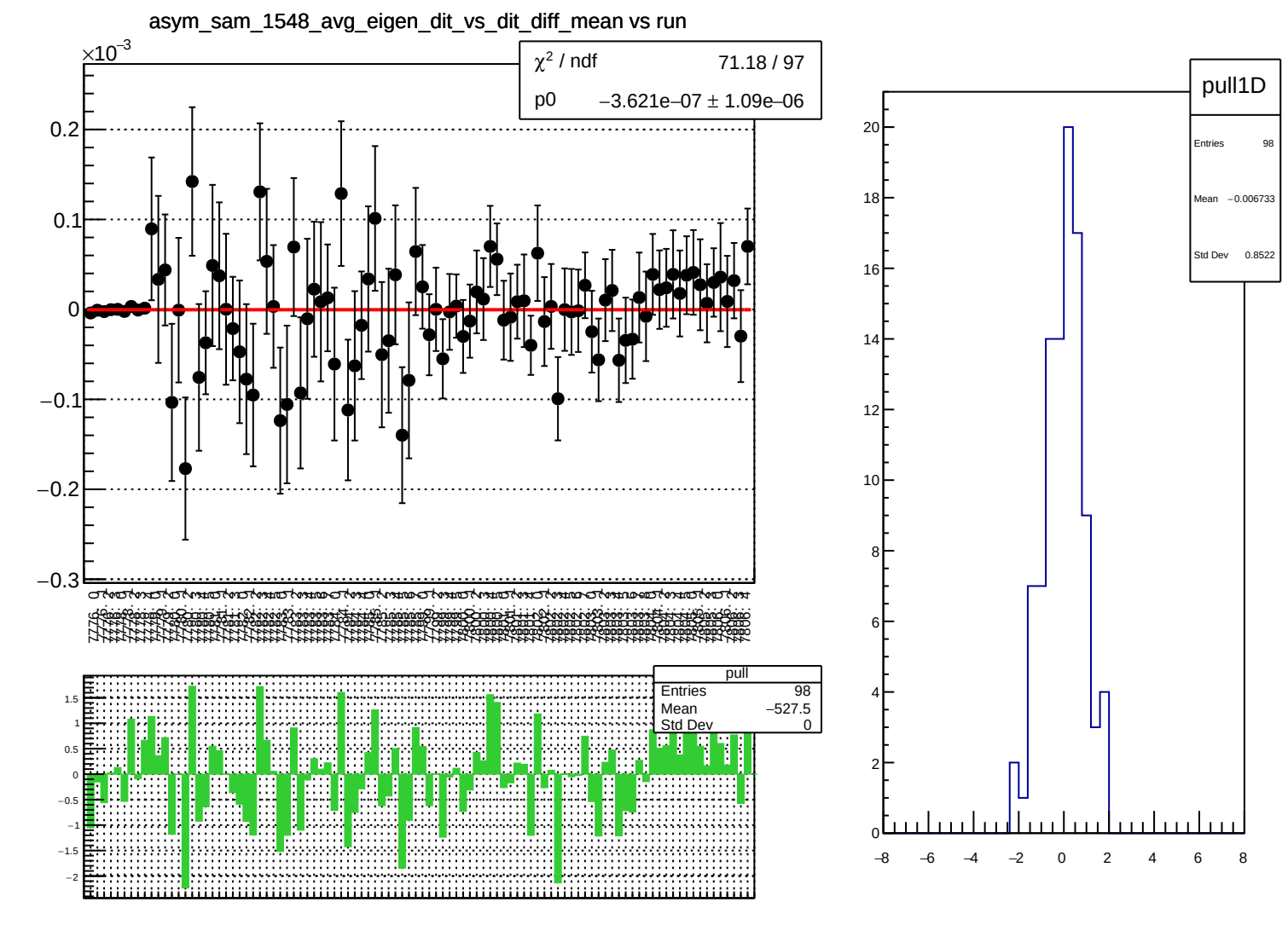

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.52 / 97
p0 −0.054 ± 0.06851
pull
Entries 98
Mean 81.05
Std Dev 71.1

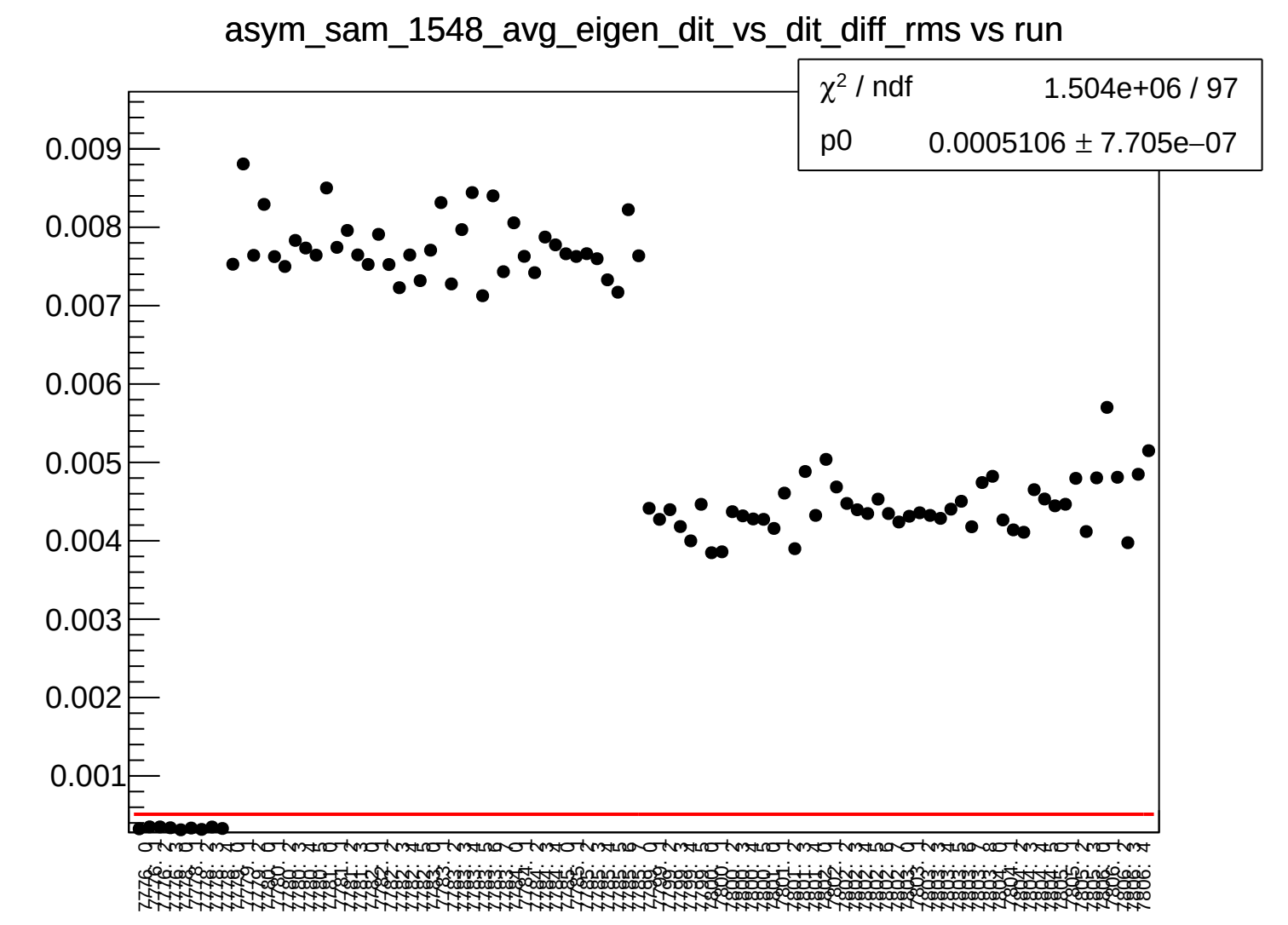

pull1D
Entries 98
Mean 0.01201
Std Dev 0.9768

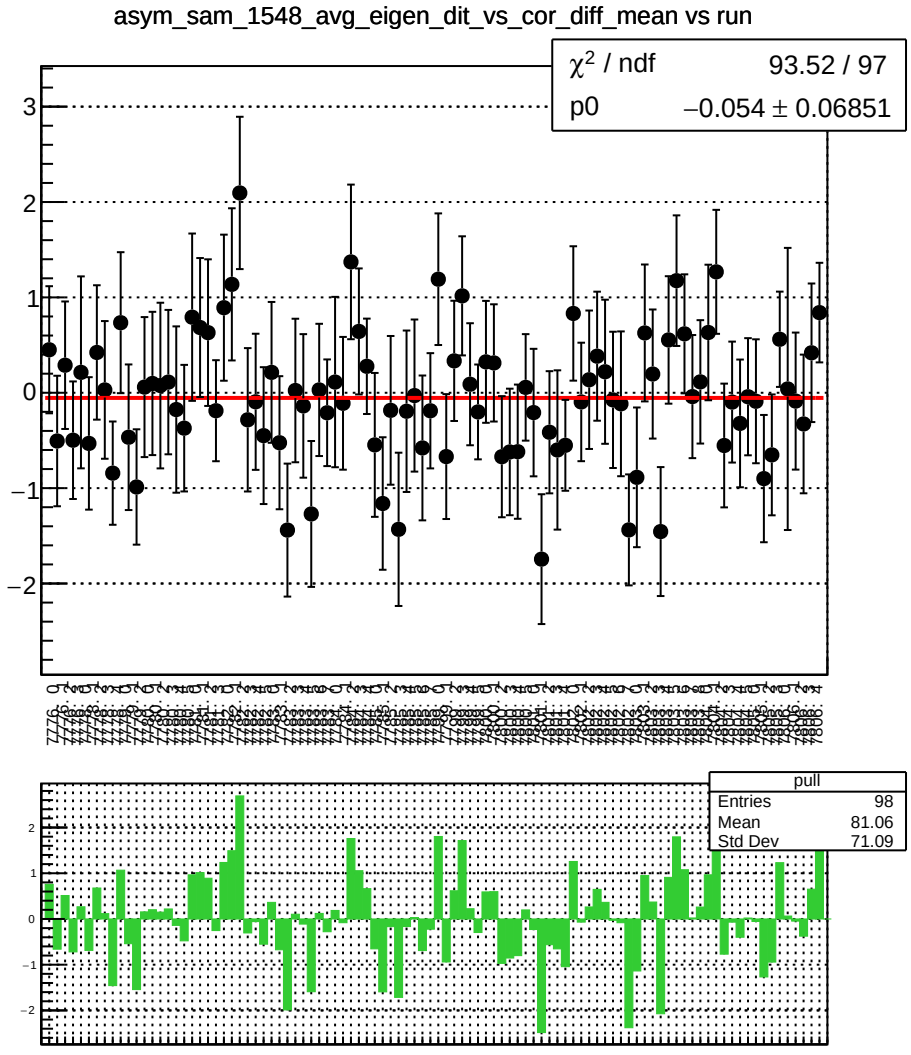

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.139e+04 / 97
p0 67.15 ± 0.04844
140
120
100
80
60

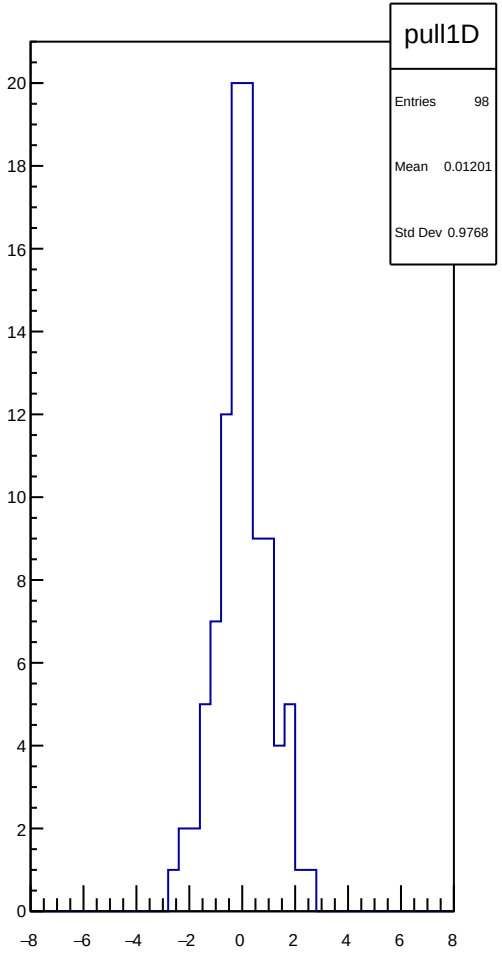

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.52 / 97
p0 −0.054 ± 0.06851
pull
Entries 98
Mean 81.05
Std Dev 71.1
pull1D
Entries 98
Mean 0.01201
Std Dev 0.9768

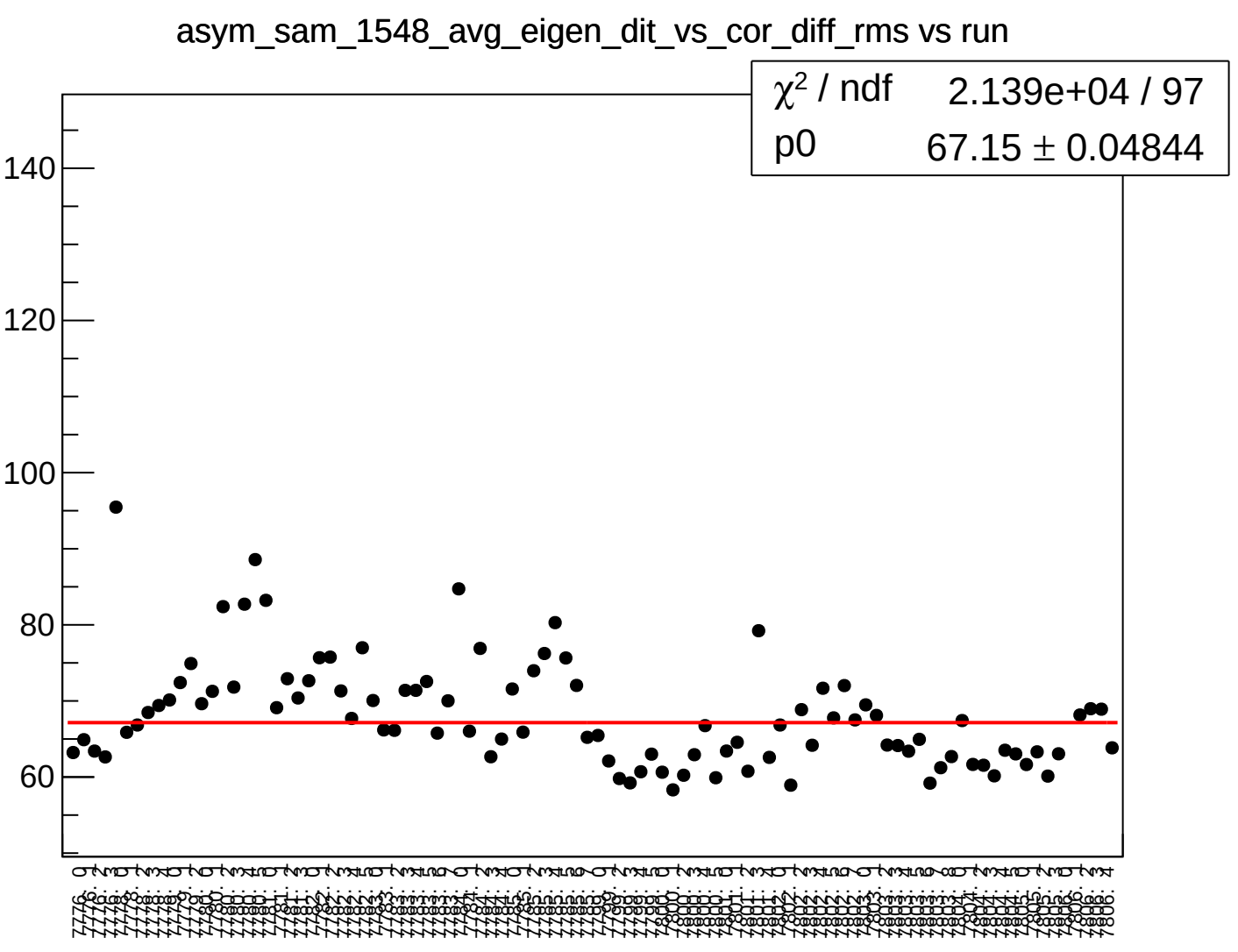

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.139e+04 / 97
p0 67.15 ± 0.04844
140
120
100
80
60

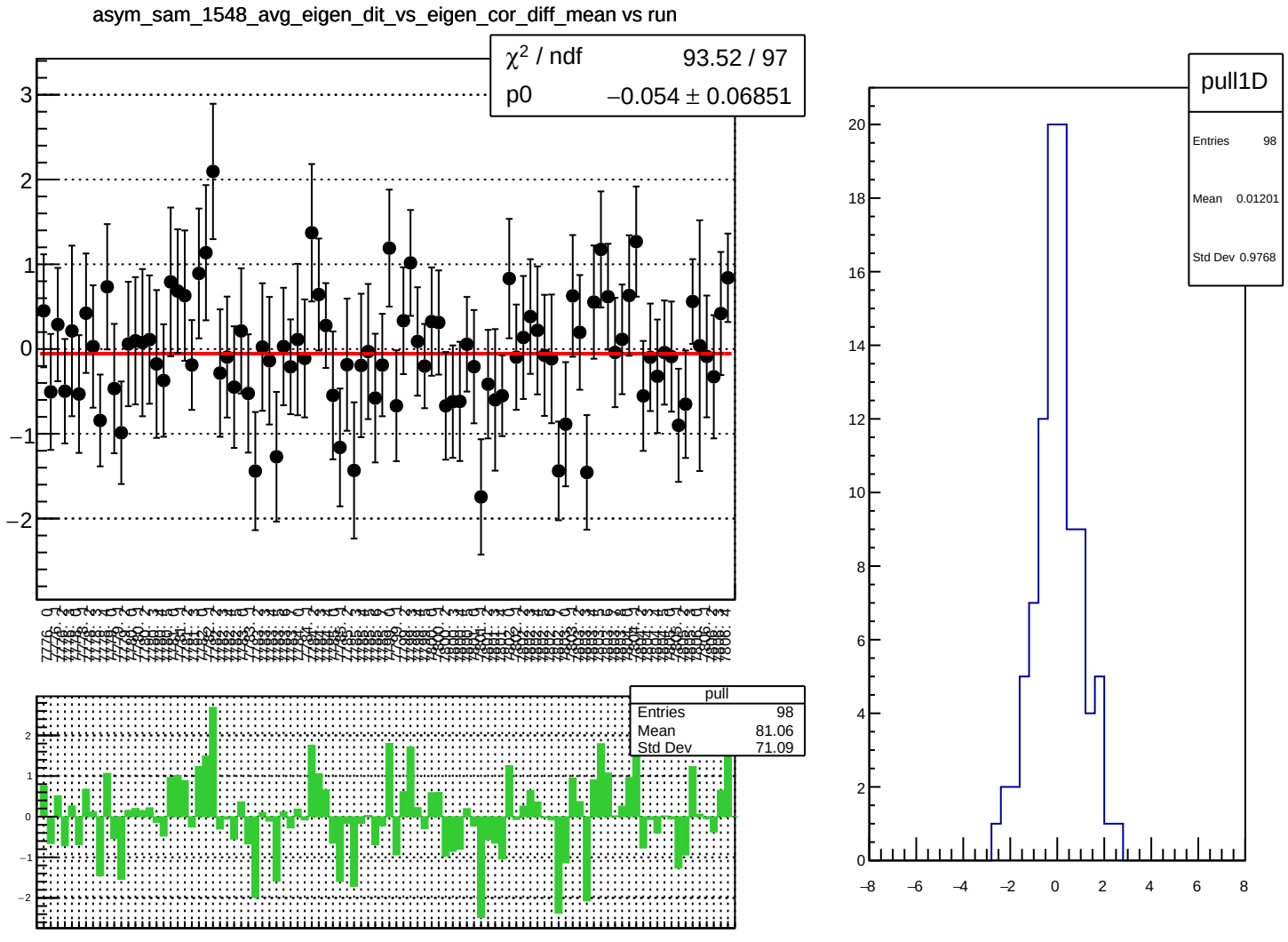

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 71.18 / 97
p0 −3.621e−07 ± 1.09e−06
pull
Entries 98
Mean −527.5
Std Dev 0
pull1D
Entries 98
Mean −0.006733
Std Dev 0.8522

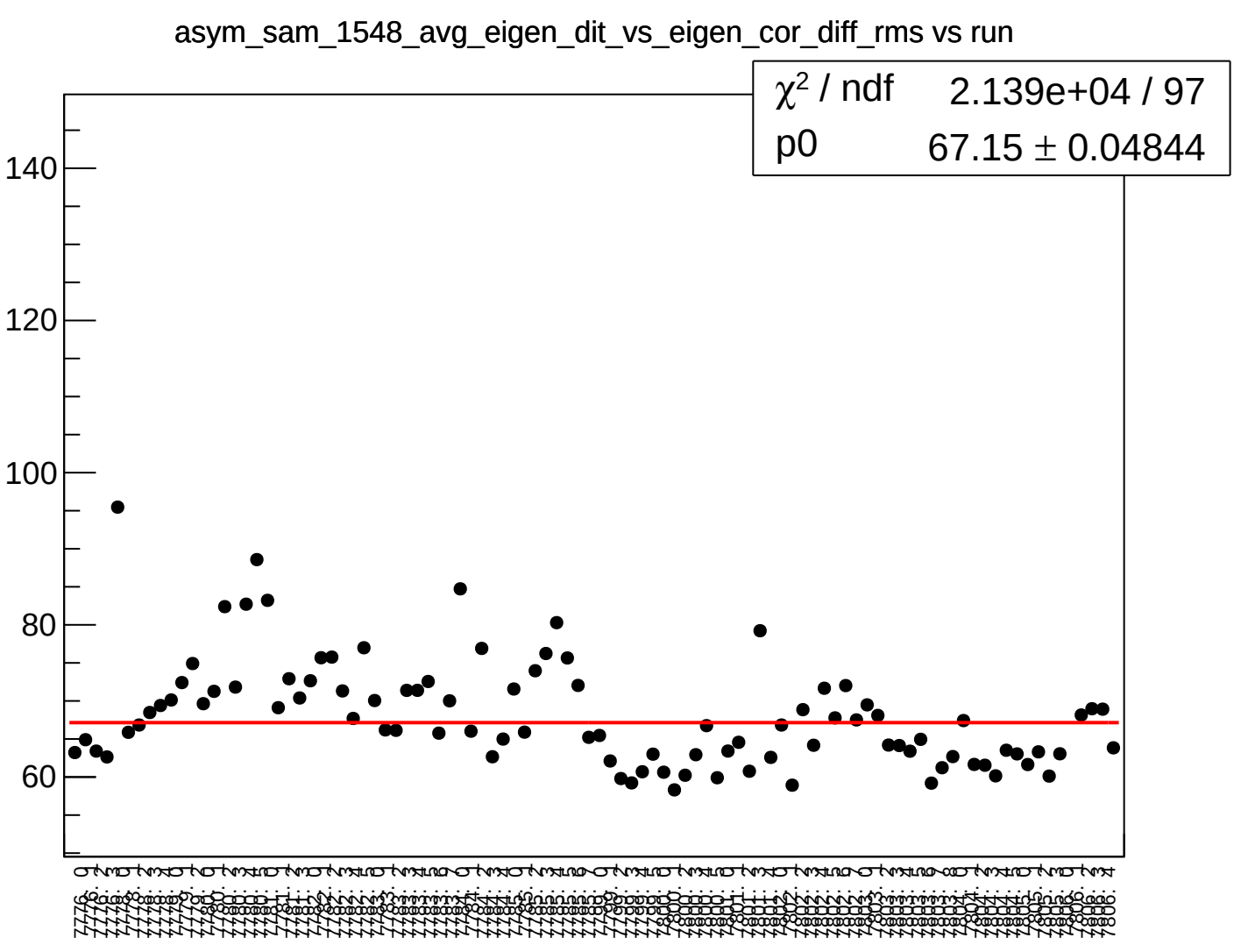

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.504e+06 / 97
p0 0.0005106 ± 7.705e−07
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

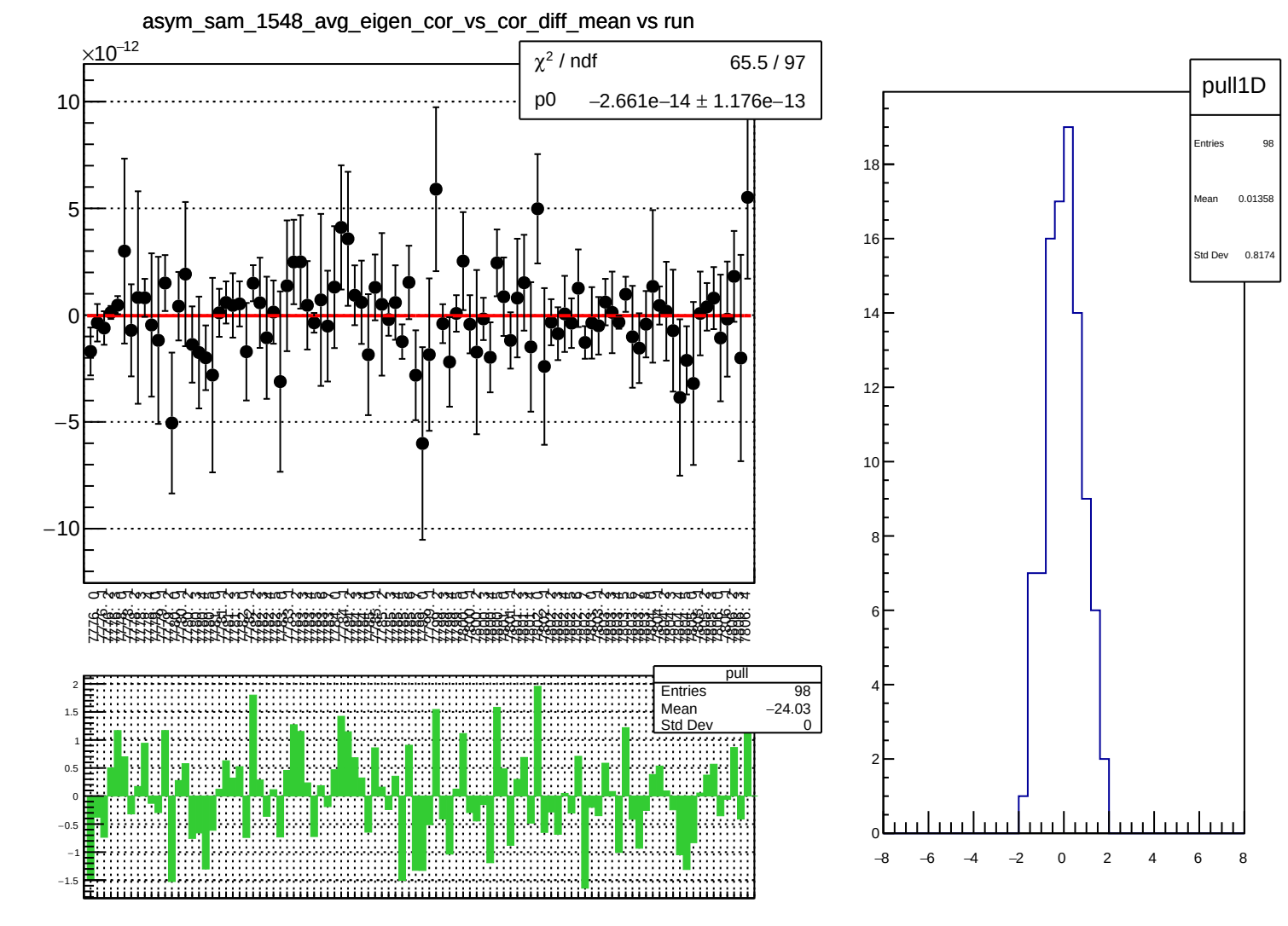

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.52 / 97
p0 −0.054 ± 0.06851
pull
Entries 98
Mean 81.06
Std Dev 71.09

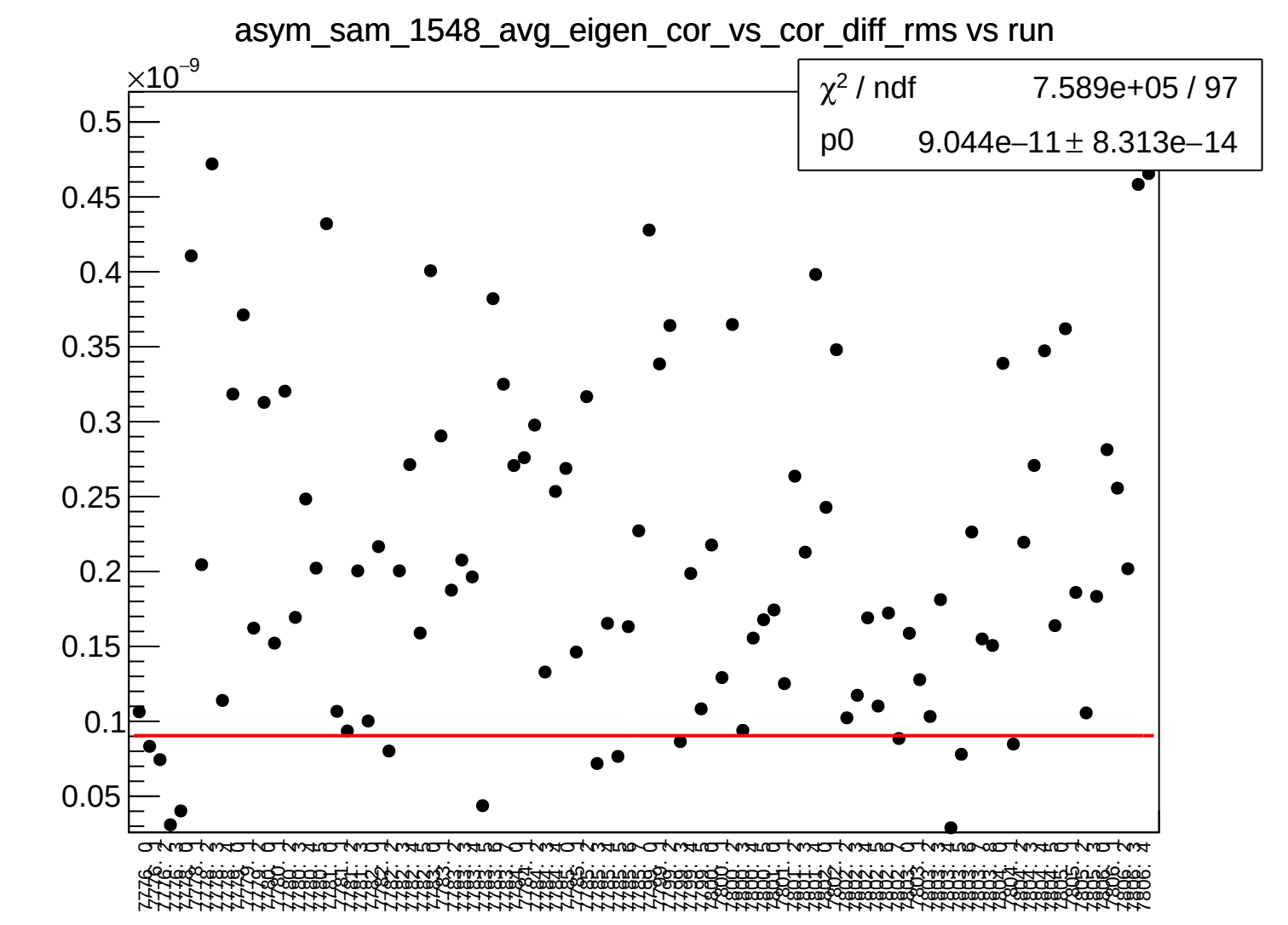

pull1D
Entries 98
Mean 0.01201
Std Dev 0.9768

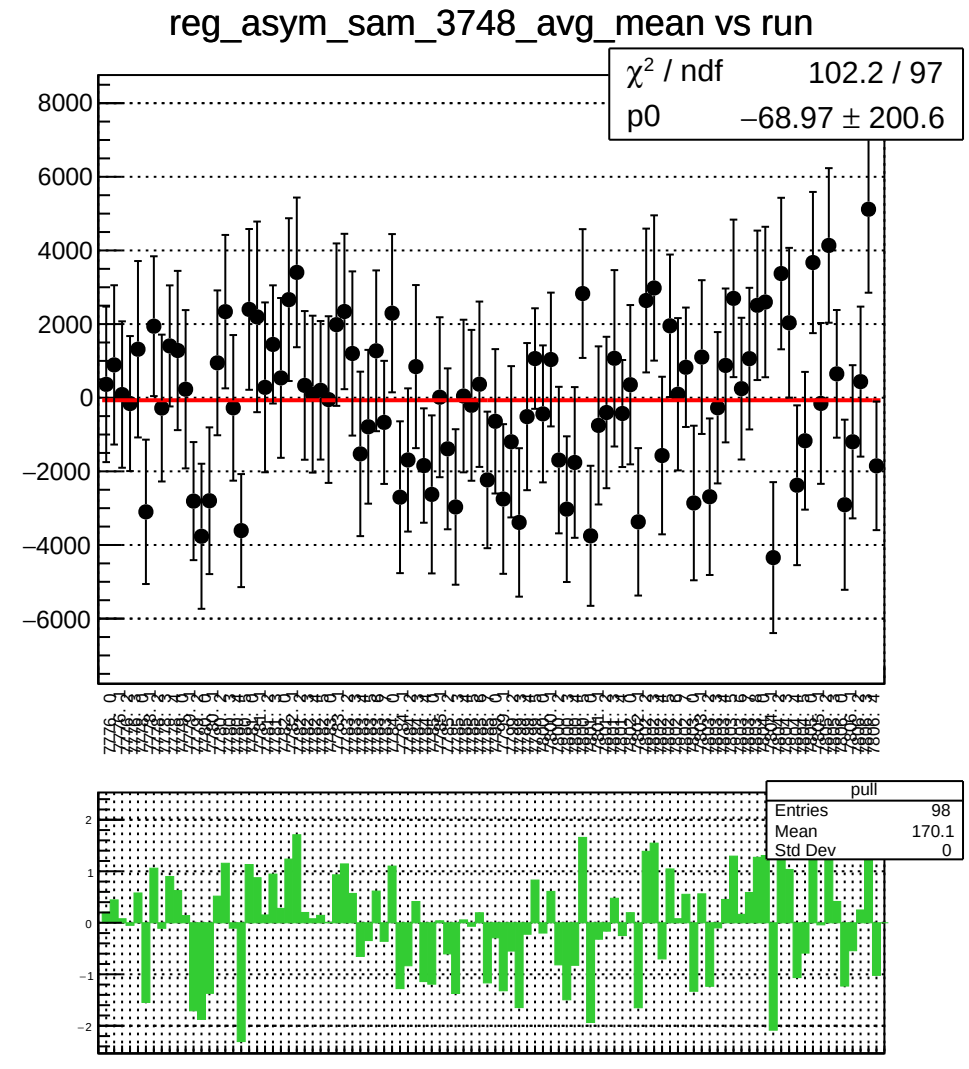

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.139e+04 / 97
p0 67.15 ± 0.04844
140
120
100
80
60

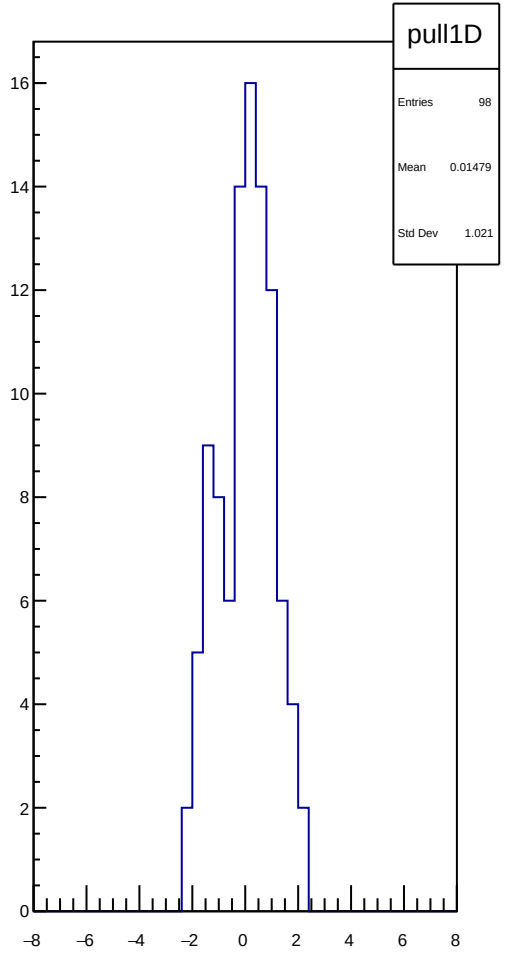

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.52 / 97
p0 −0.054 ± 0.06851
pull
Entries 98
Mean 81.06
Std Dev 71.09
pull1D
Entries 98
Mean 0.01201
Std Dev 0.9768

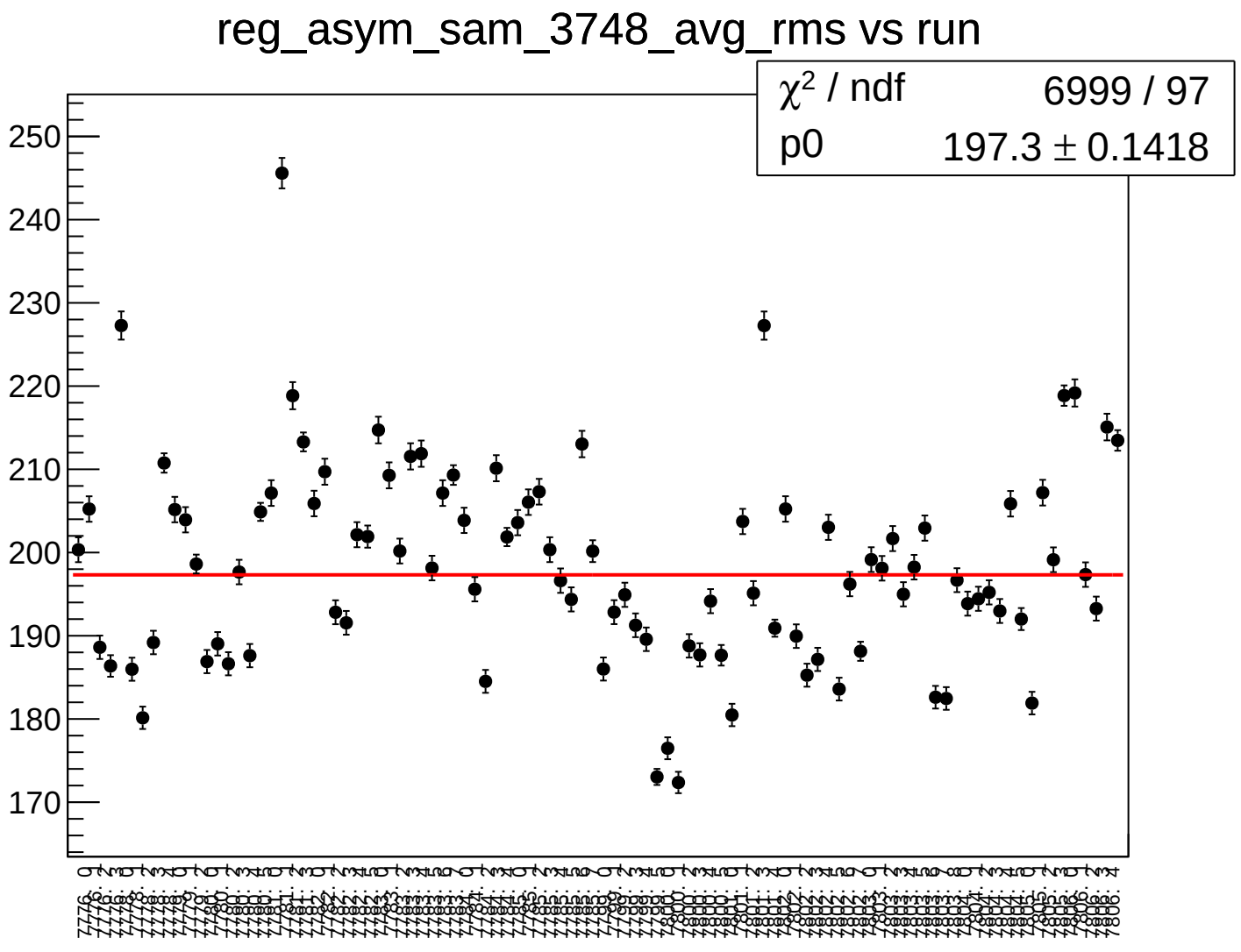

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.139e+04 / 97
p0 67.15 ± 0.04844
140
120
100
80
60

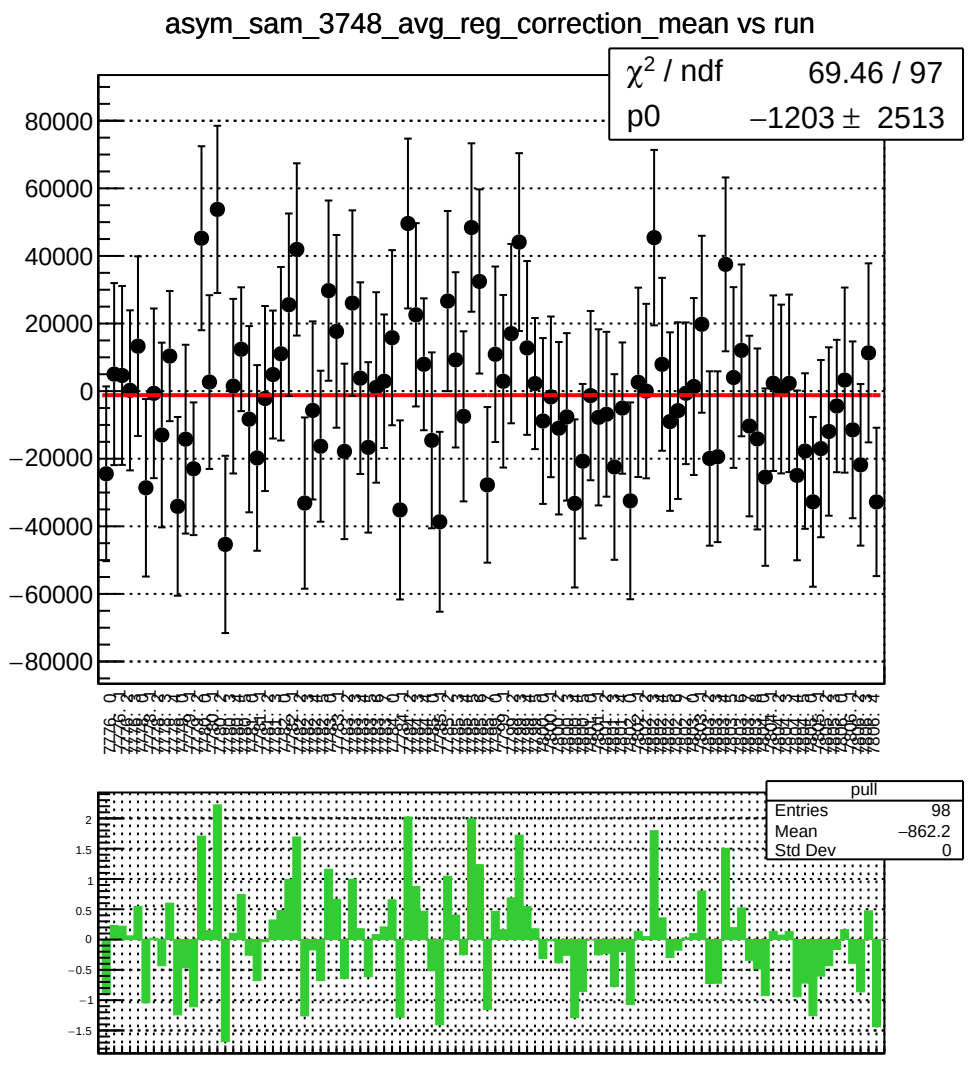

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.5 / 97
p0 −2.661e−14 ± 1.176e−13
pull
Entries 98
Mean −24.03
Std Dev 0
pull1D
Entries 98
Mean 0.01358
Std Dev 0.8174

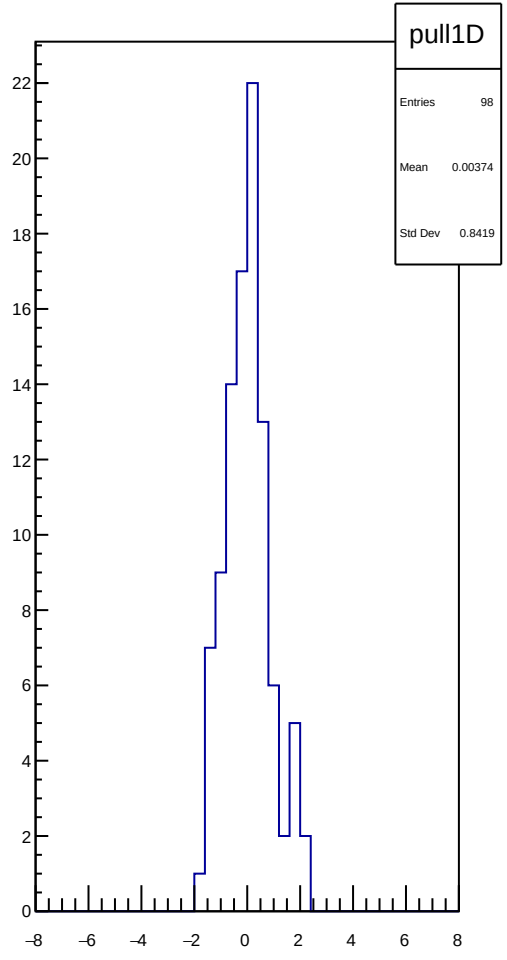

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.589e+05 / 97
p0 9.044e−11 ± 8.313e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

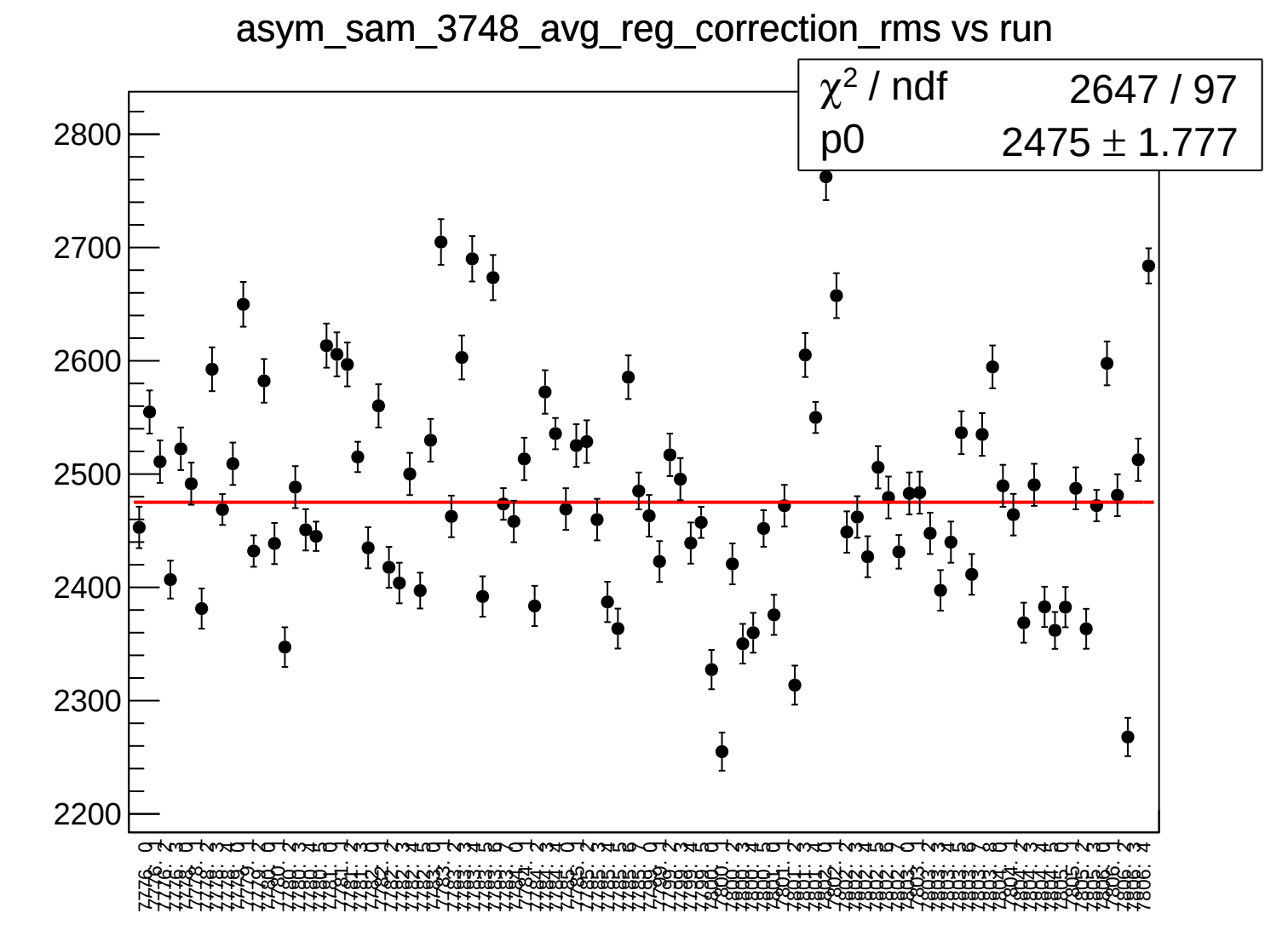

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 102.2 / 97
p0 −68.97 ± 200.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 170.1
Std Dev 0
2
1
0
−1
−2

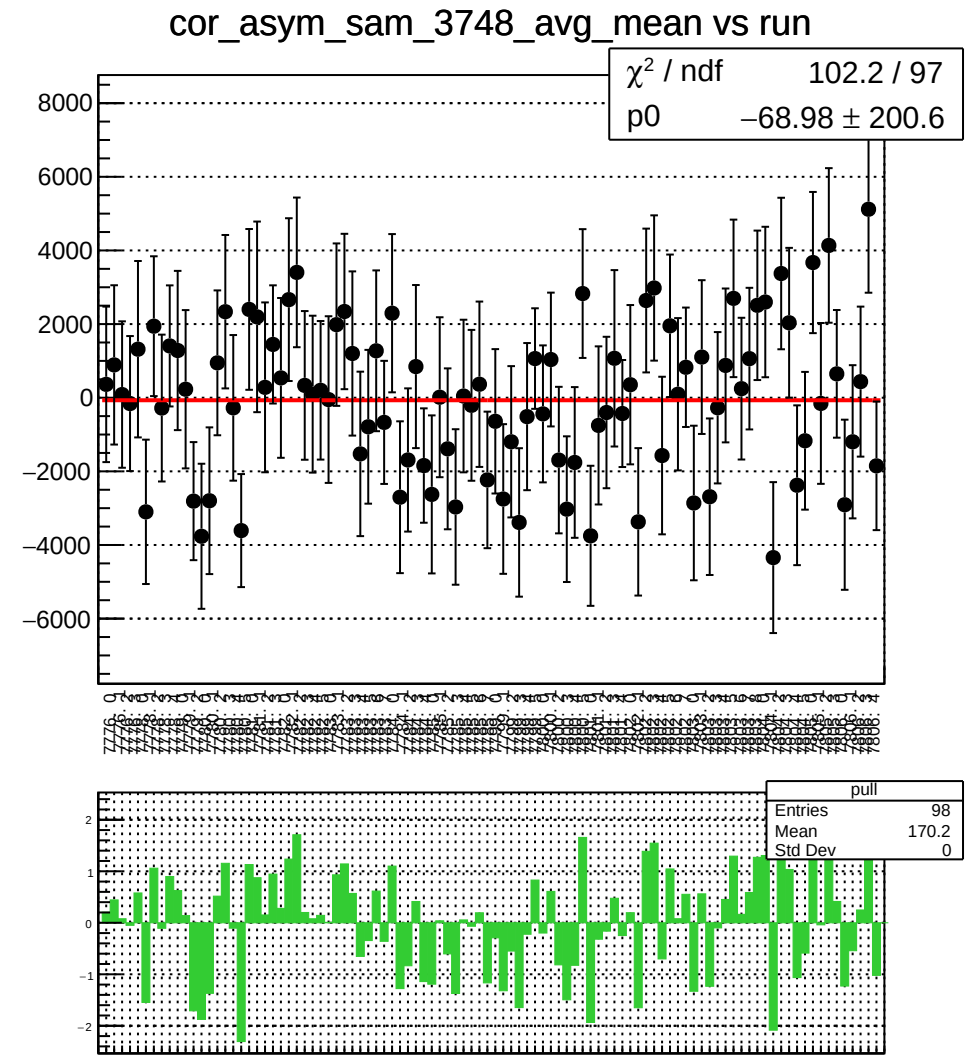

pull1D
Entries 98
Mean 0.01479
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

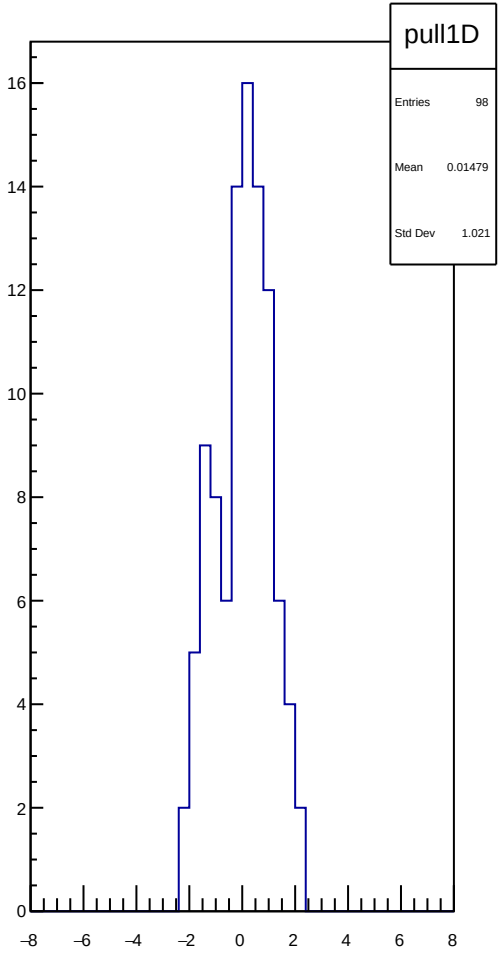

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 6999 / 97
p0 197.3 ± 0.1418
250
240
230
220
210
200
190
180
170

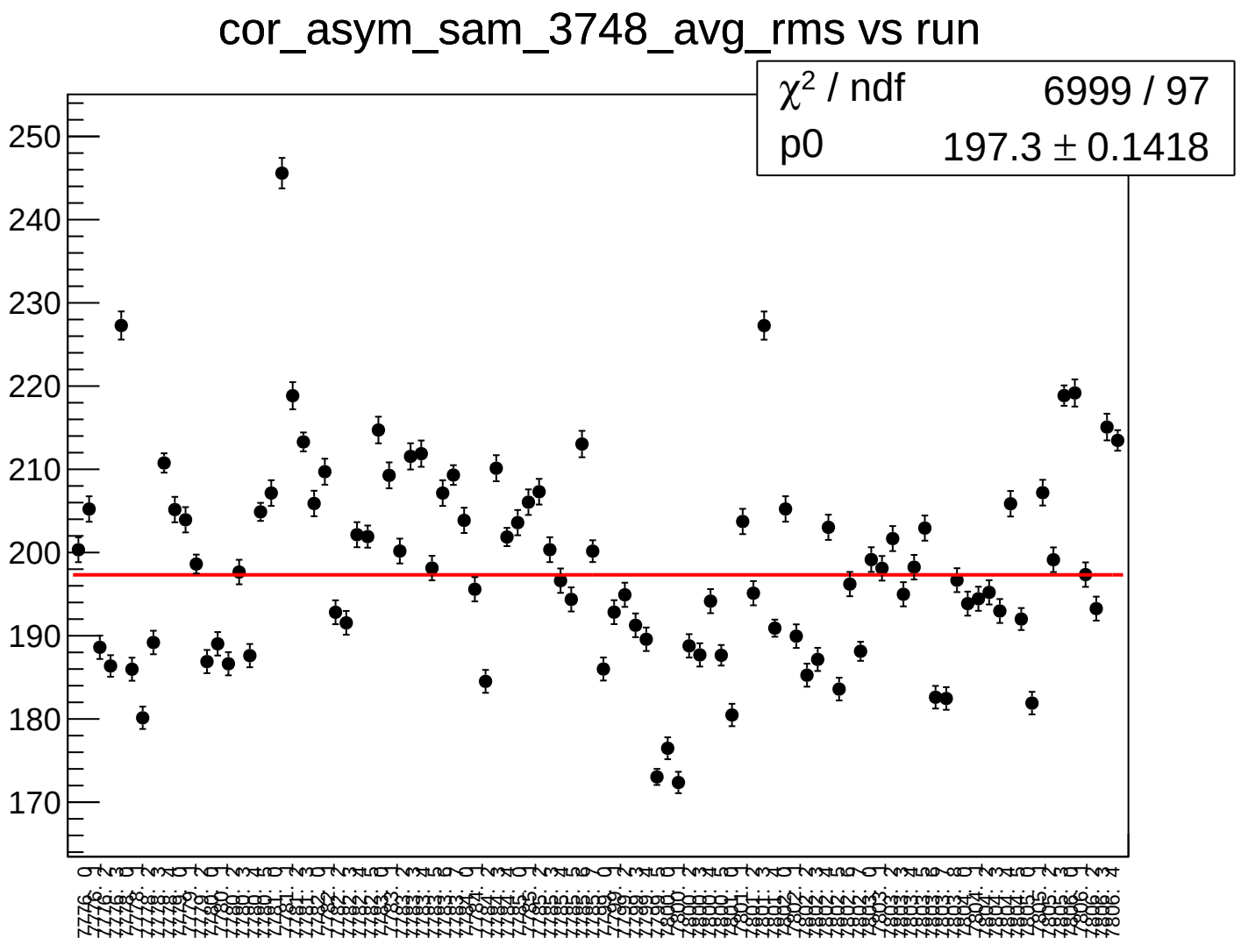

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 69.46 / 97
p0 −1203 ± 2513
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −862.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

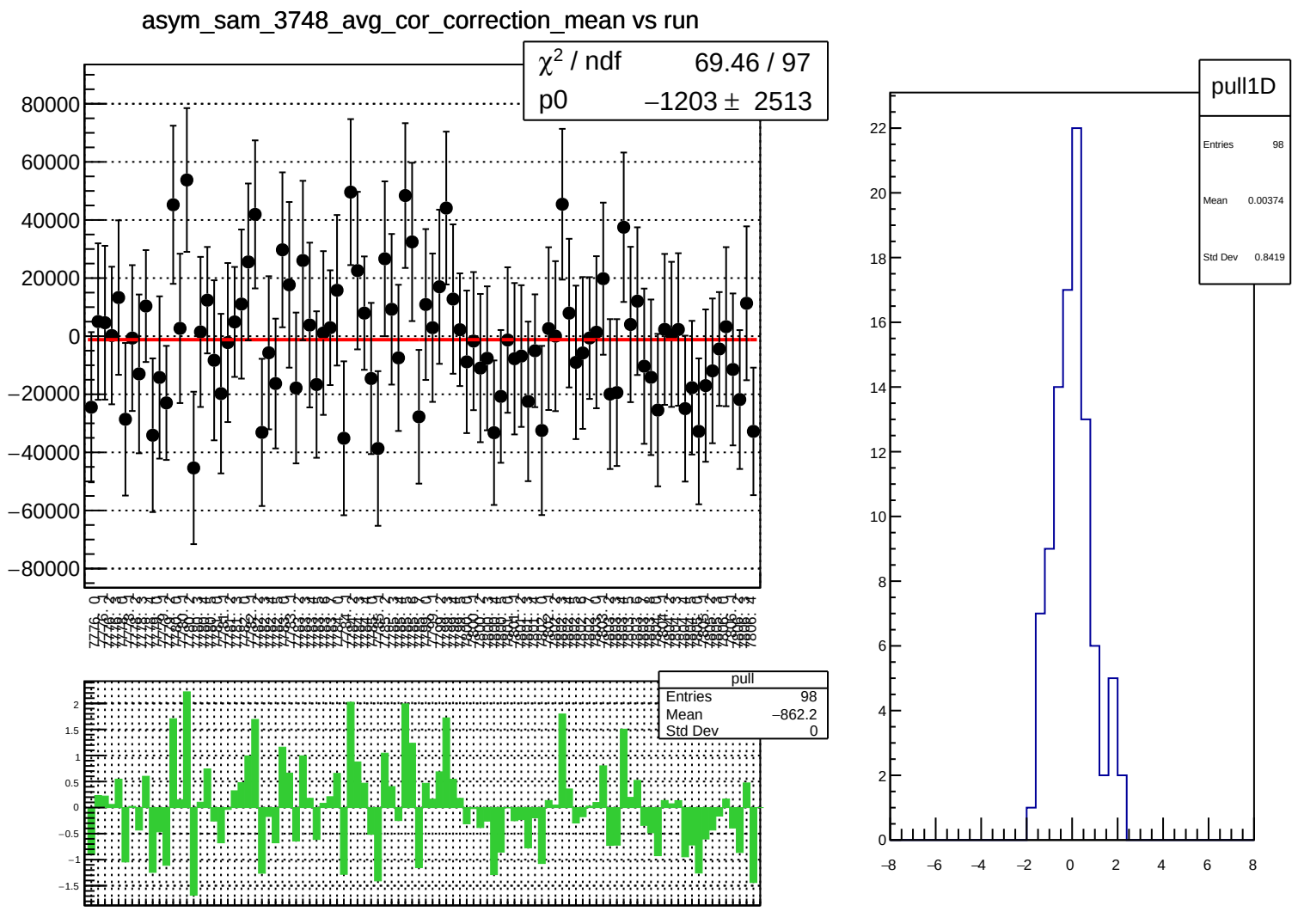

pull1D
Entries 98
Mean 0.00374
Std Dev 0.8419
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

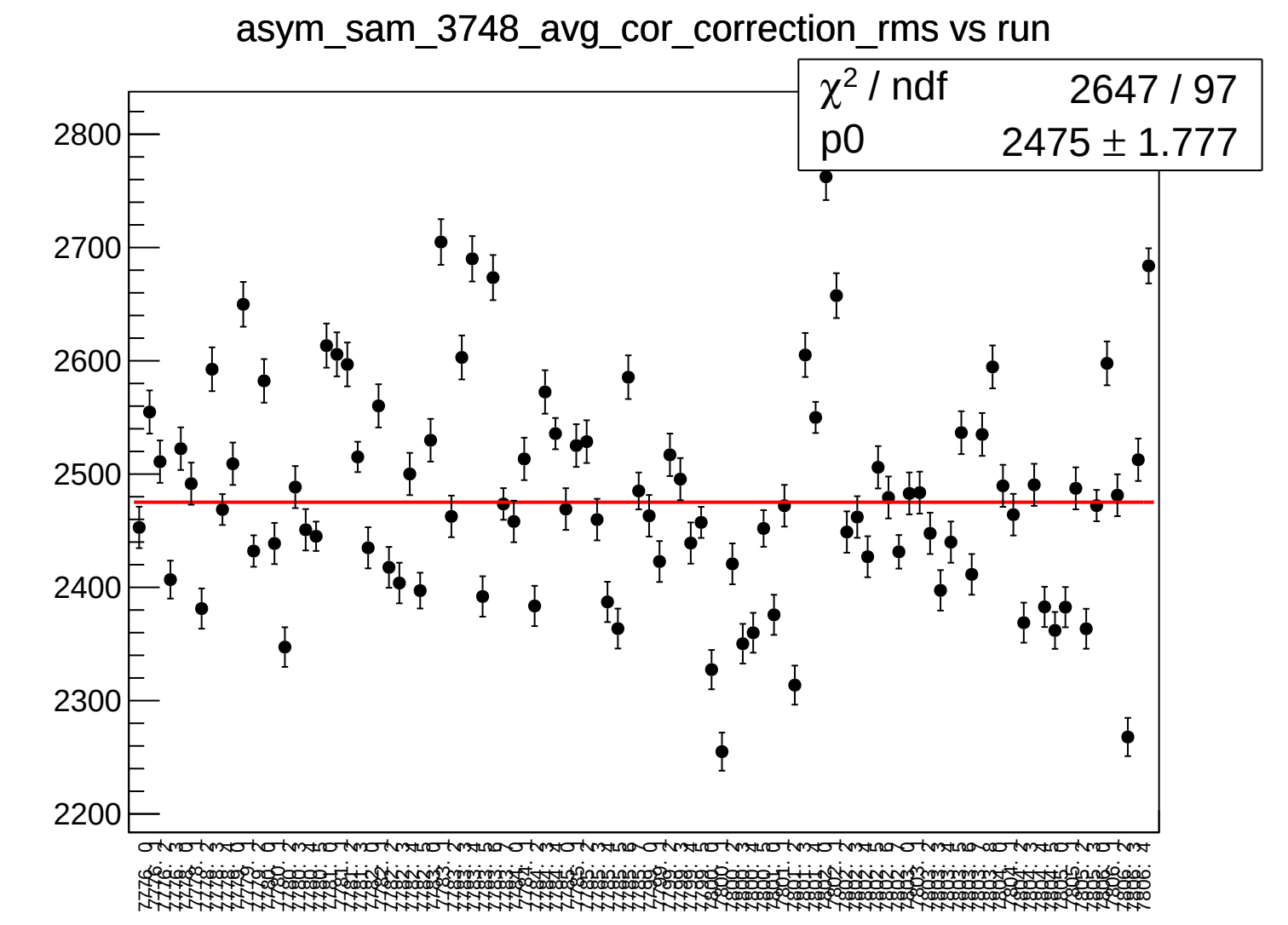

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 2647 / 97
p0 2475 ± 1.777
2800
2700
2600
2500
2400
2300
2200

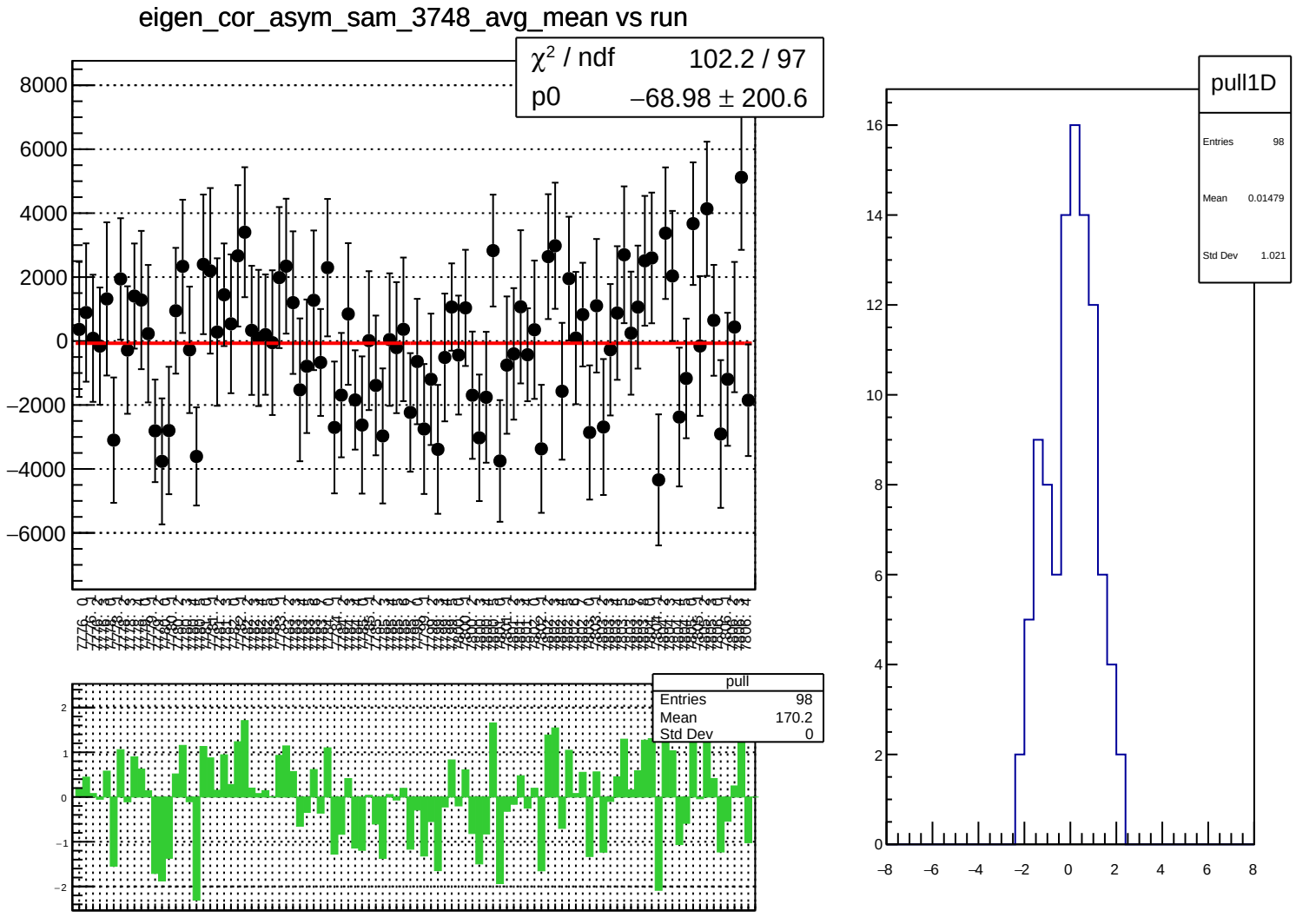

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 102.2 / 97
p0 −68.98 ± 200.6
pull
Entries 98
Mean 170.2
Std Dev 0

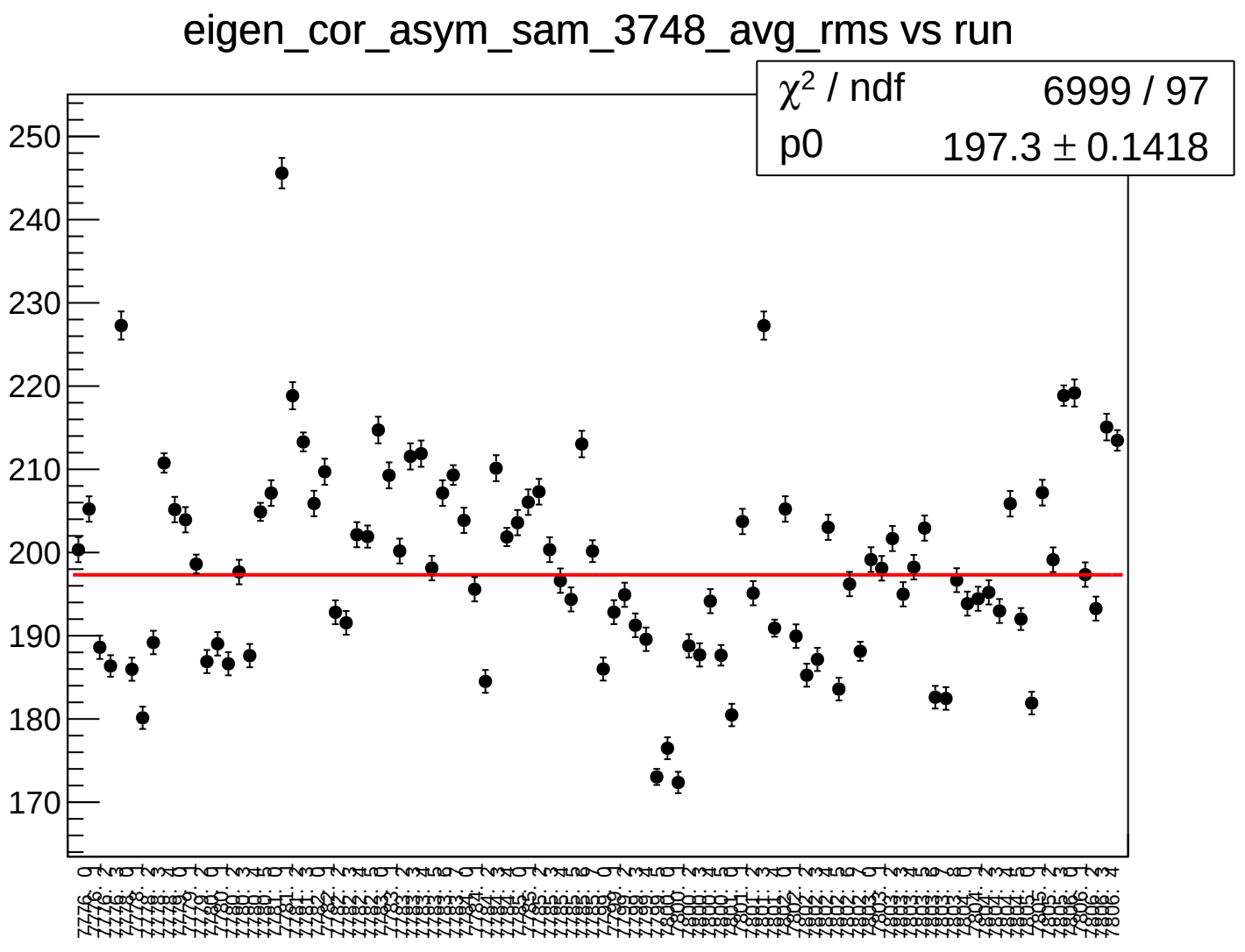

pull1D
Entries 98
Mean 0.01479
Std Dev 1.021

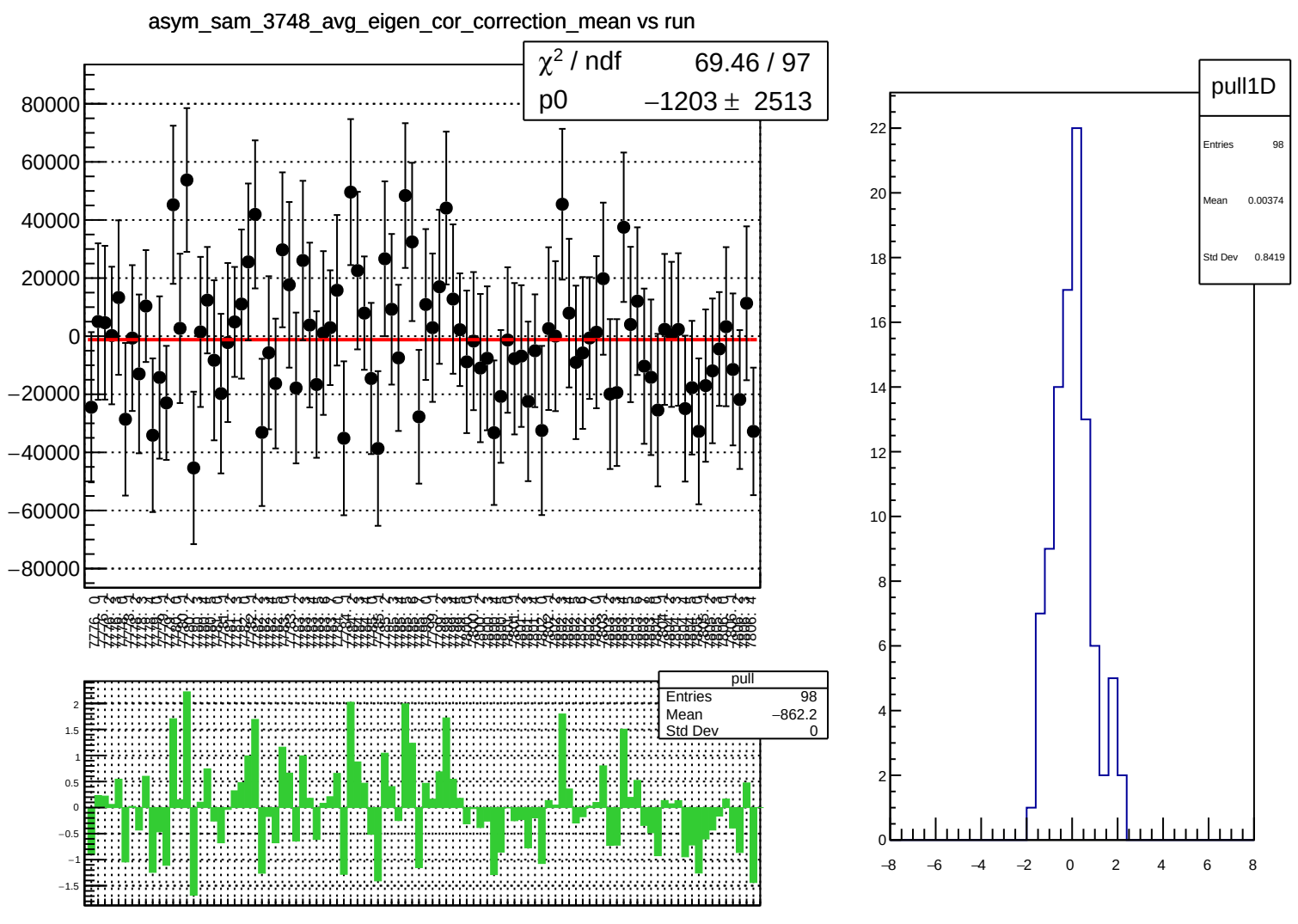

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 6999 / 97
p0 197.3 ± 0.1418
250
240
230
220
210
200
190
180
170

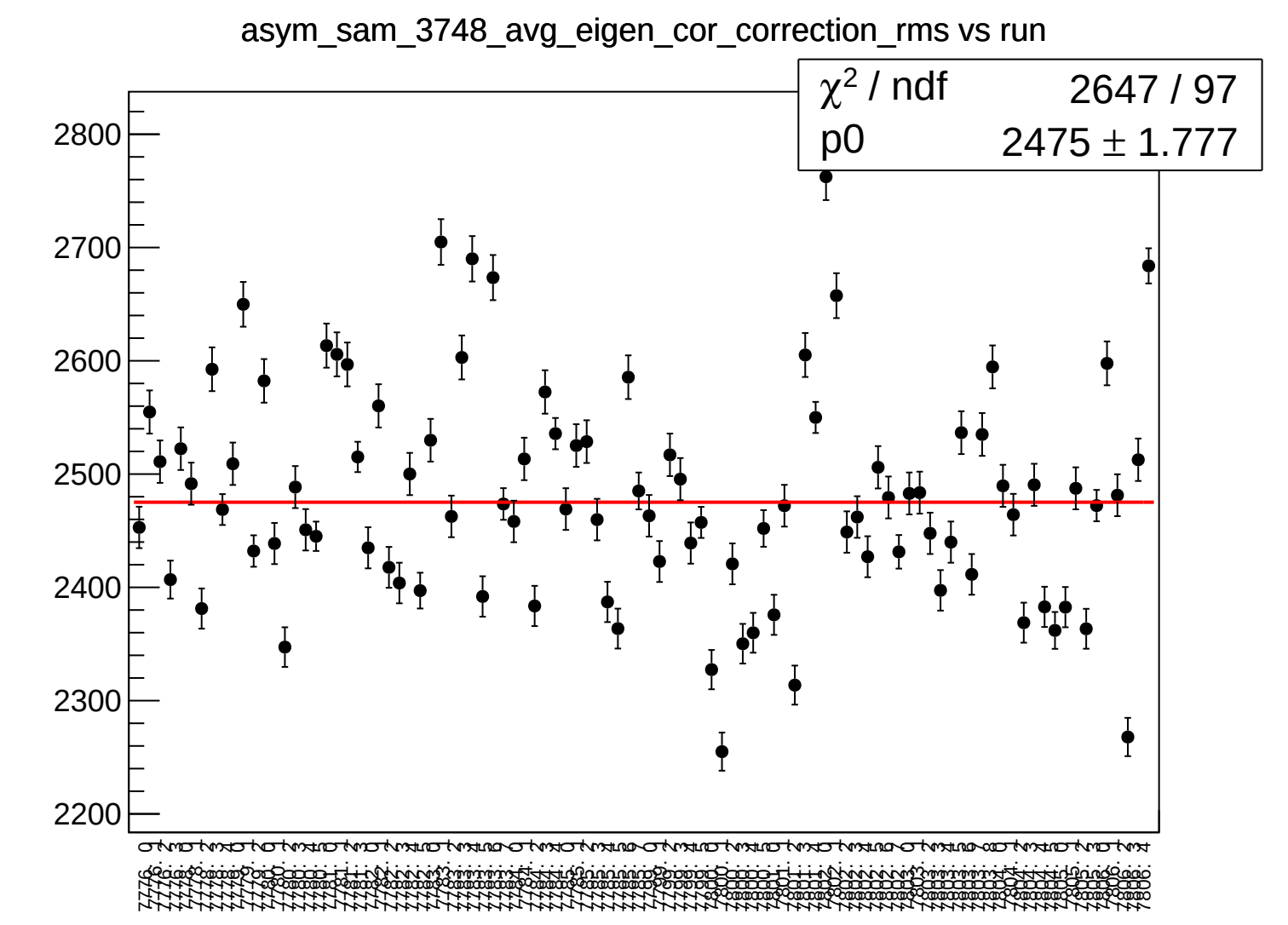

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 69.46 / 97
p0 −1203 ± 2513
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −862.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.00374
Std Dev 0.8419
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

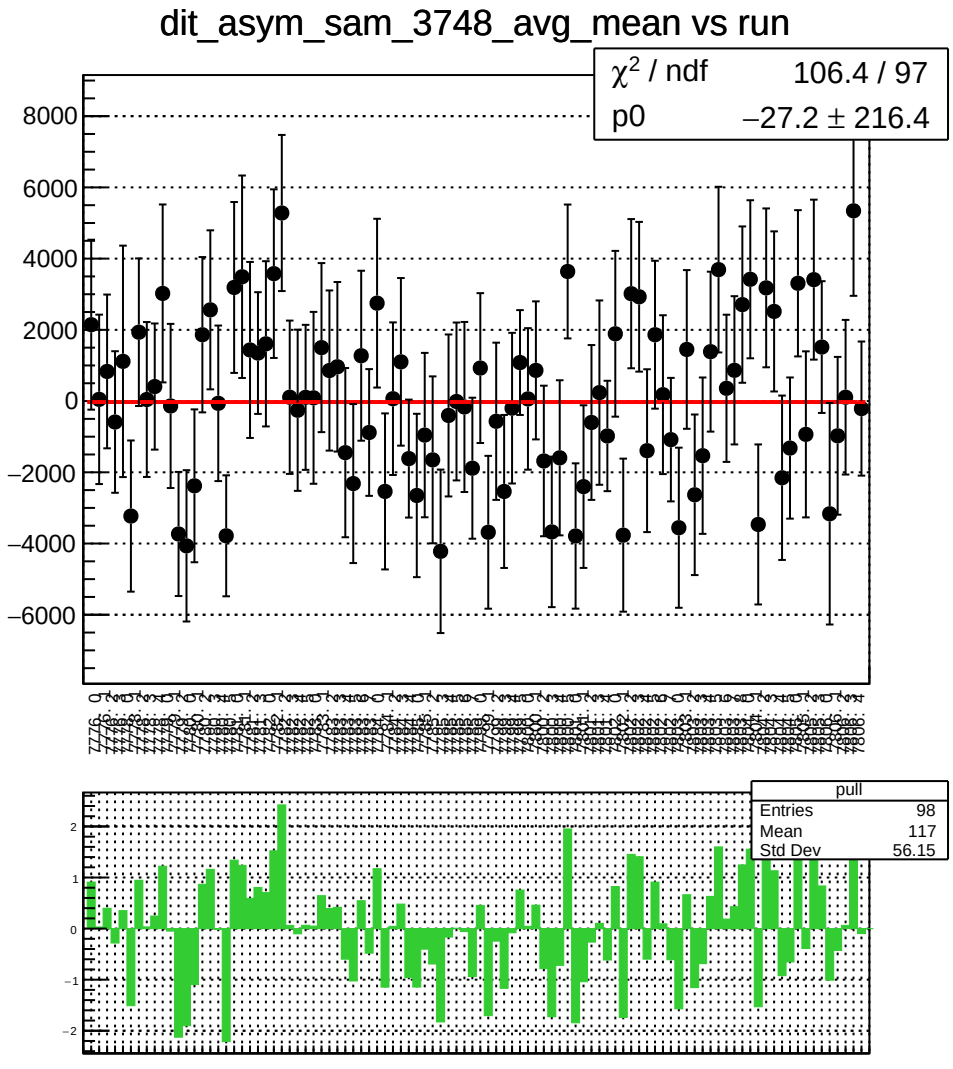

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 2647 / 97
p0 2475 ± 1.777
2800
2700
2600
2500
2400
2300
2200

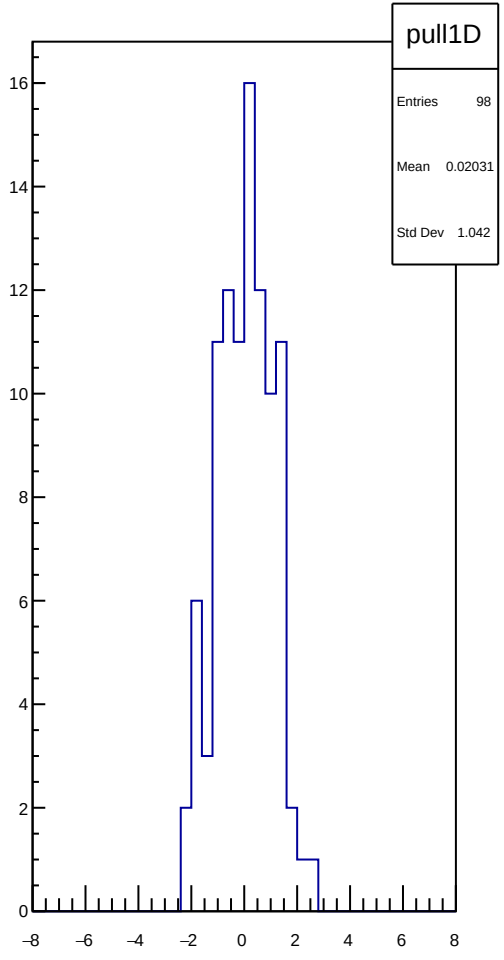

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 102.2 / 97
p0 −68.98 ± 200.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 170.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01479
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

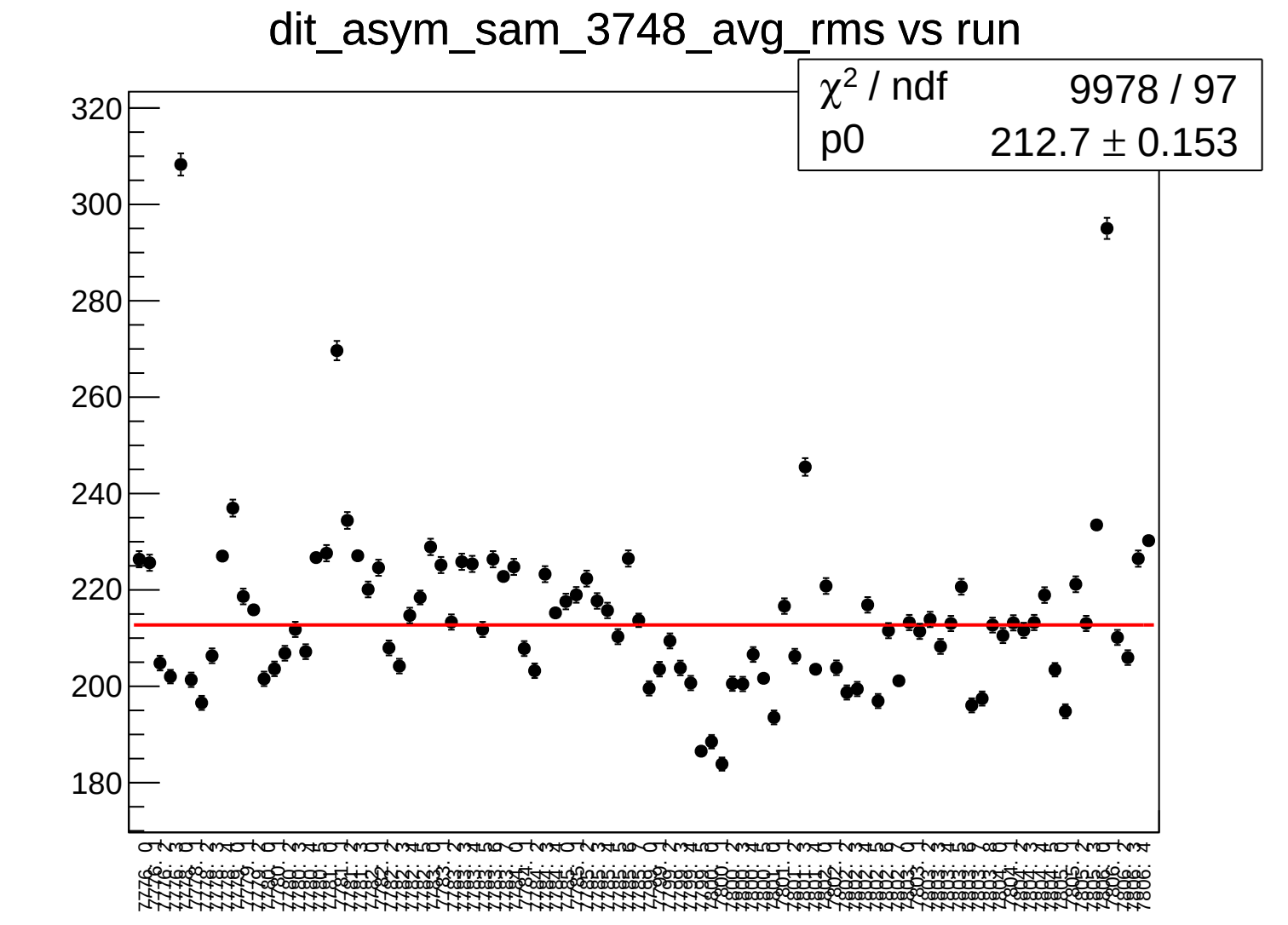

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 6999 / 97
p0 197.3 ± 0.1418
250
240
230
220
210
200
190
180
170

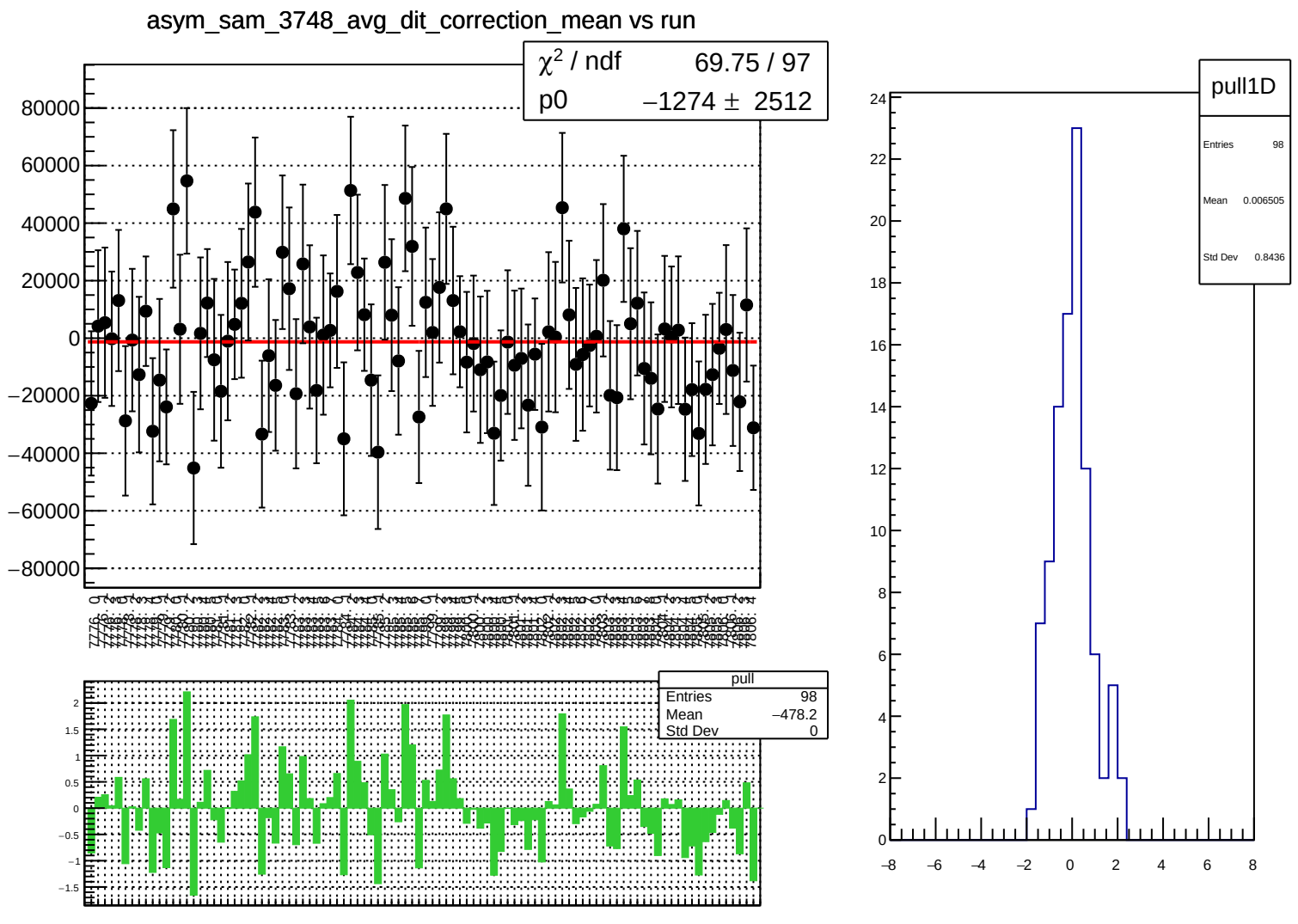

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.46 / 97
p0 −1203 ± 2513
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −862.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.00374
Std Dev 0.8419
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

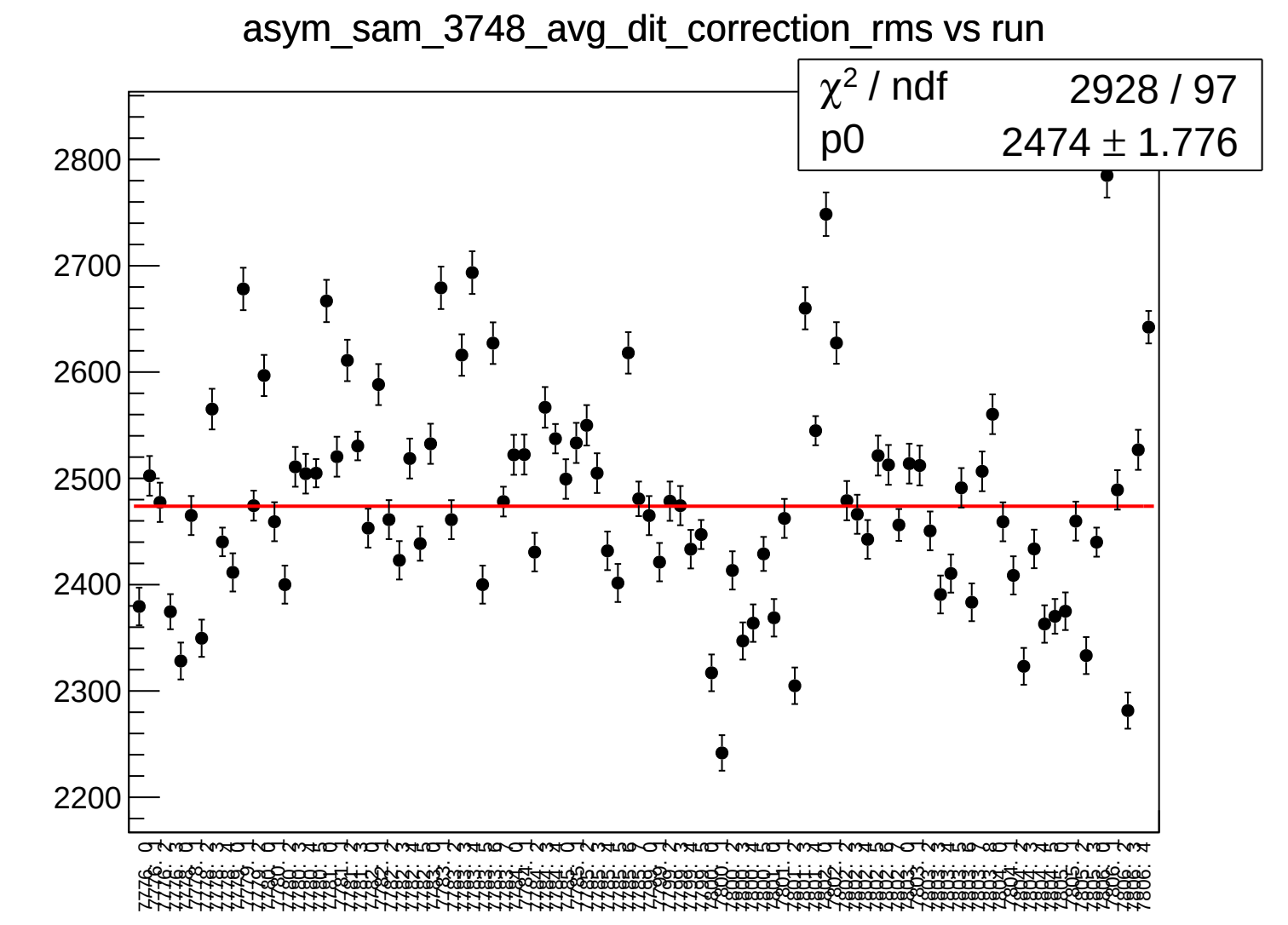

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 2647 / 97
p0 2475 ± 1.777
2800
2700
2600
2500
2400
2300
2200

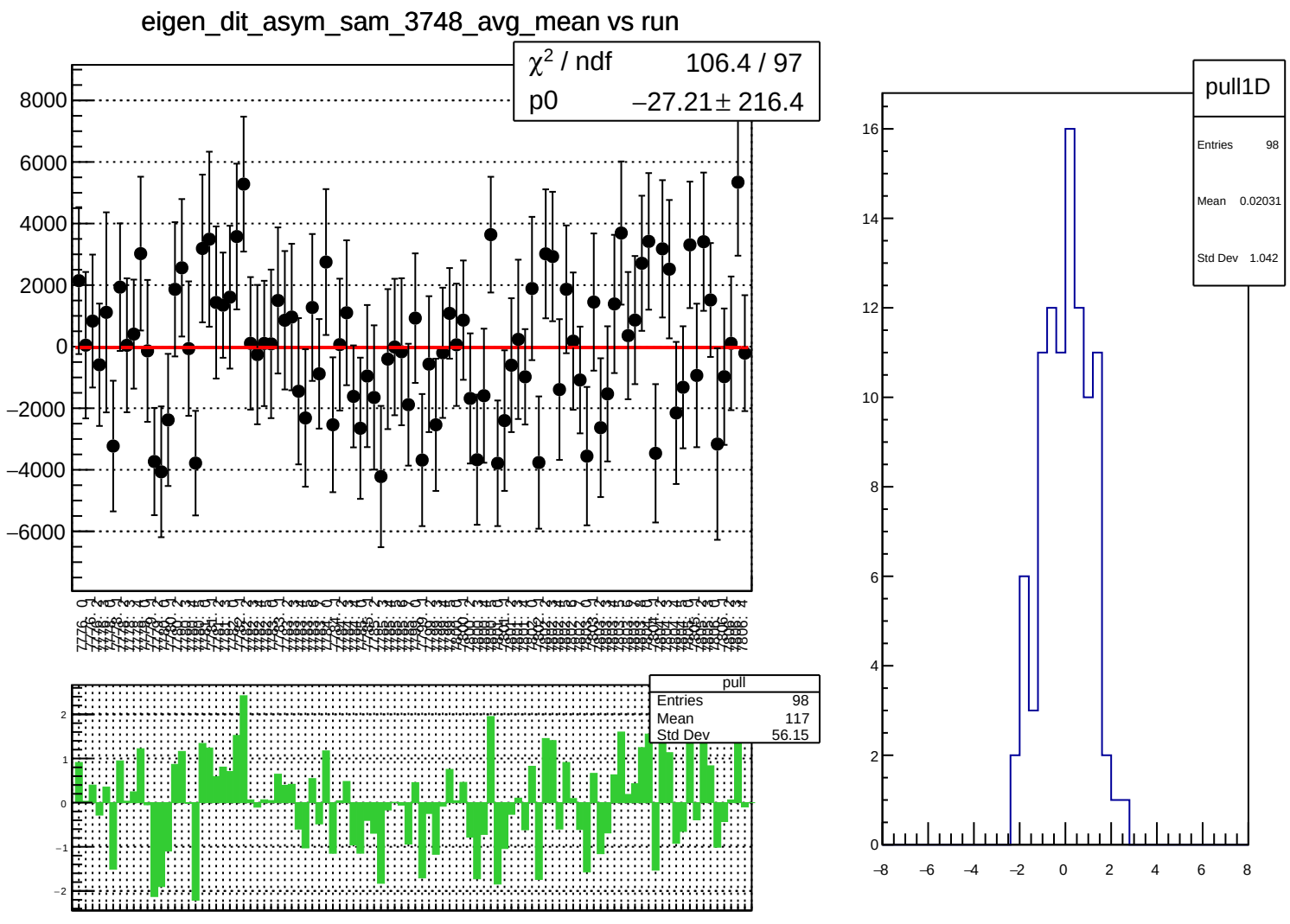

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 106.4 / 97
p0 −27.2 ± 216.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 117
Std Dev 56.15
2
1
0
−1
−2

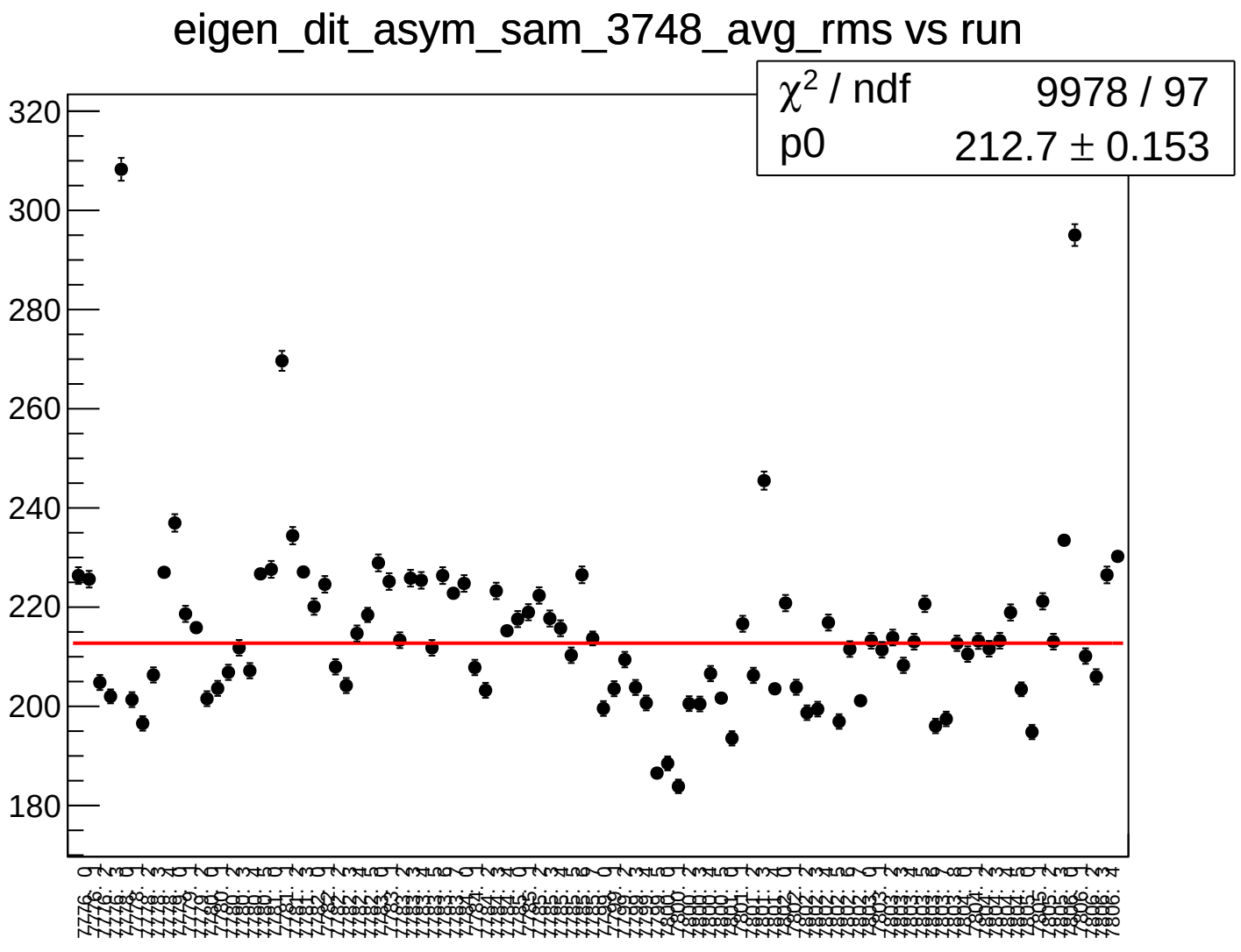

pull1D
Entries 98
Mean 0.02031
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

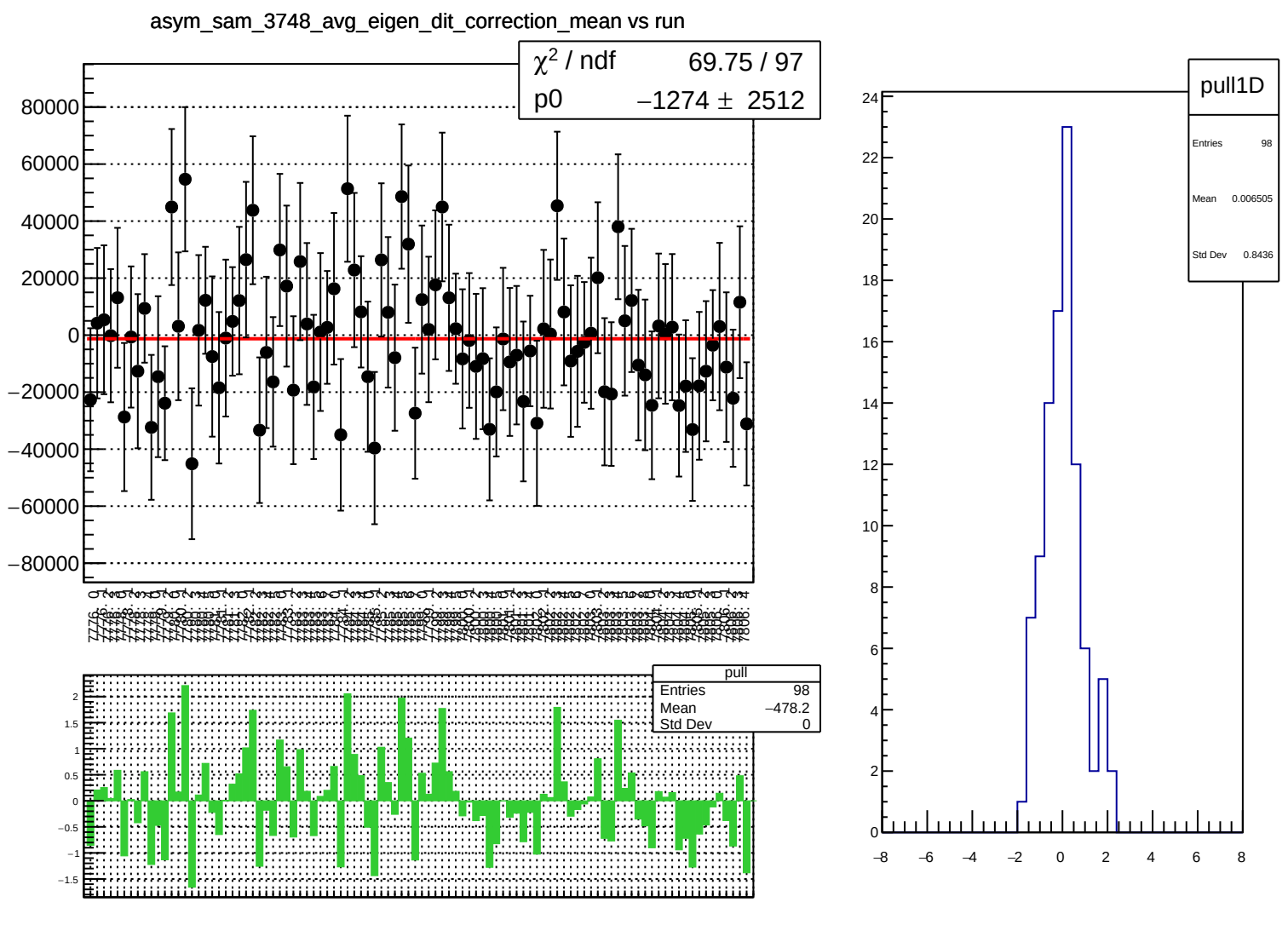

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 9978 / 97
p0 212.7 ± 0.153
320
300
280
260
240
220
200
180

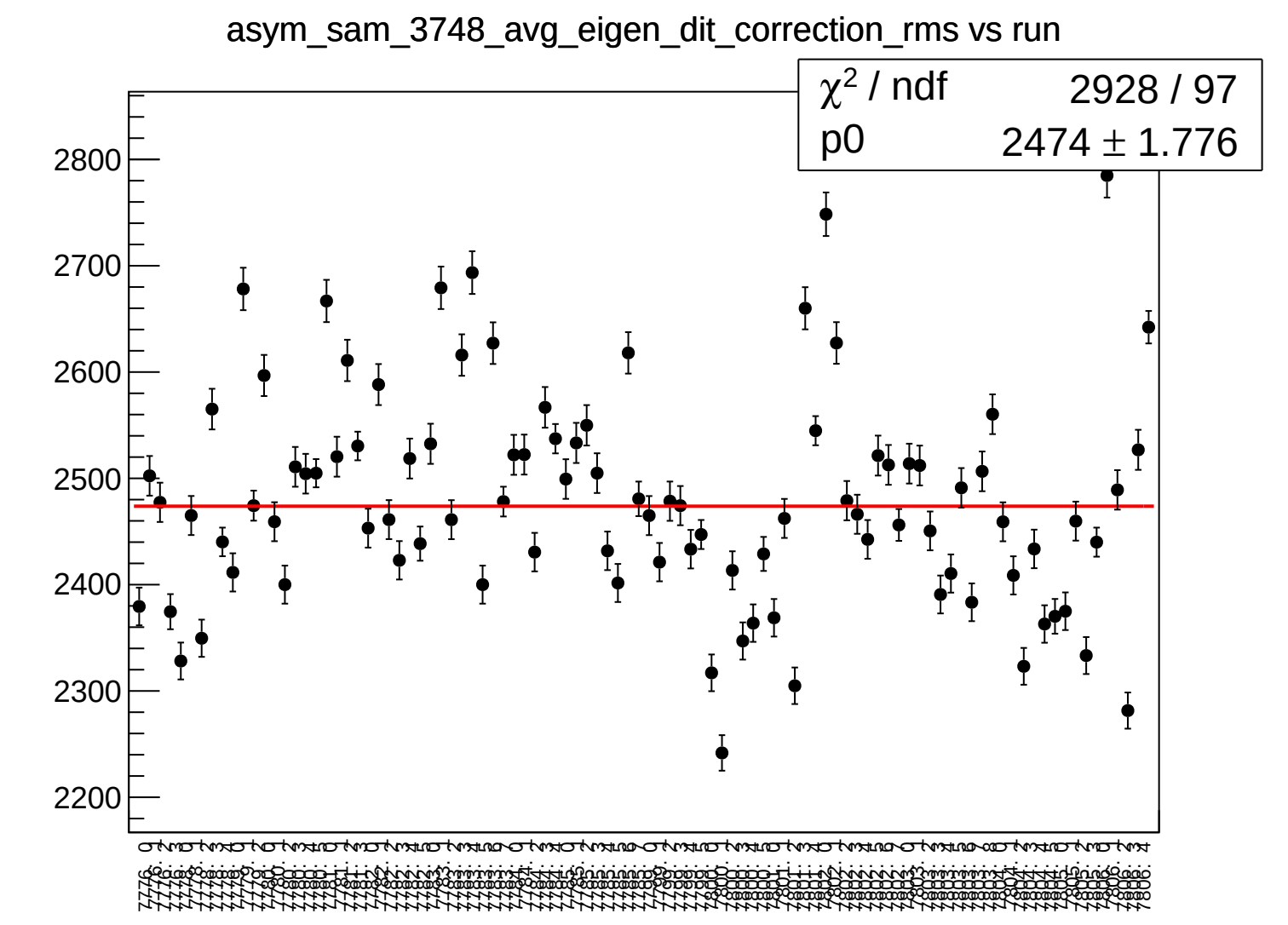

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 69.75 / 97
p0 −1274 ± 2512
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −478.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.006505
Std Dev 0.8436
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

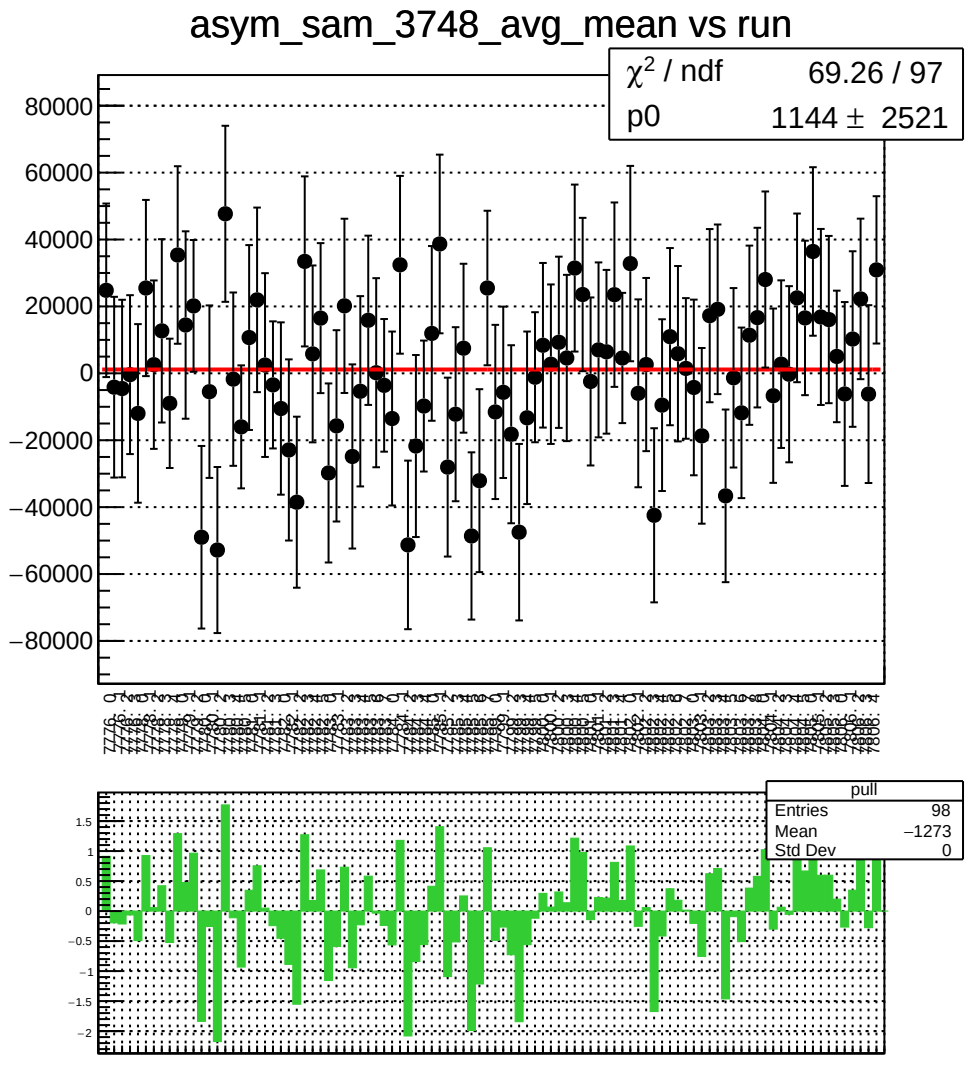

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 2928 / 97
p0 2474 ± 1.776
2800
2700
2600
2500
2400
2300
2200

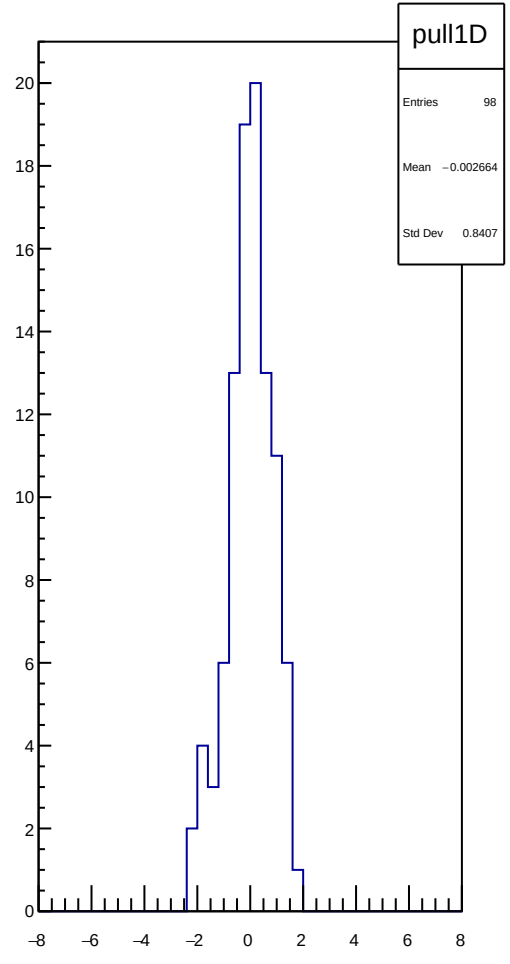

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 106.4 / 97
p0 −27.21± 216.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 117
Std Dev 56.15
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02031
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

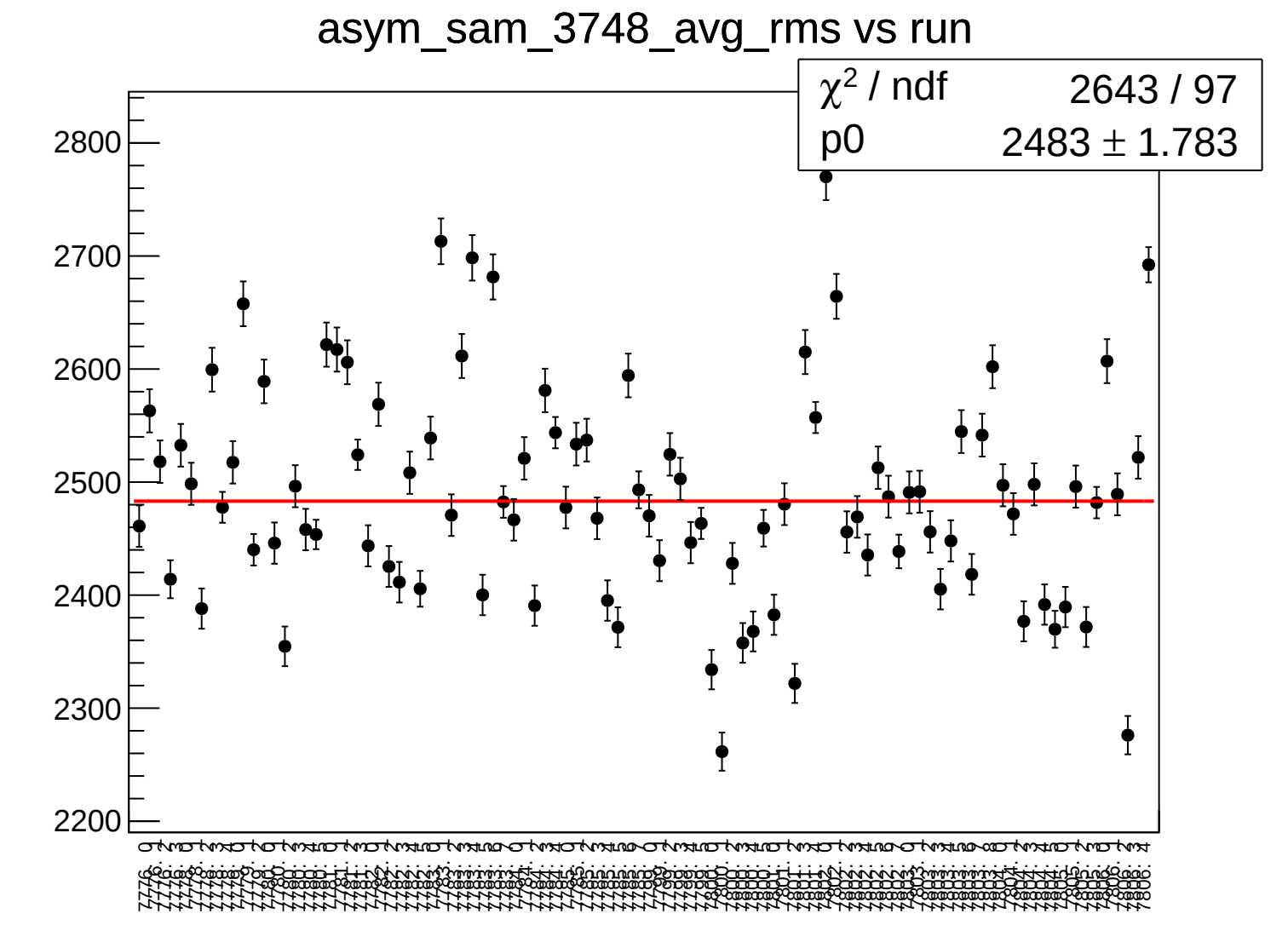

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 9978 / 97
p0 212.7 ± 0.153
320
300
280
260
240
220
200
180

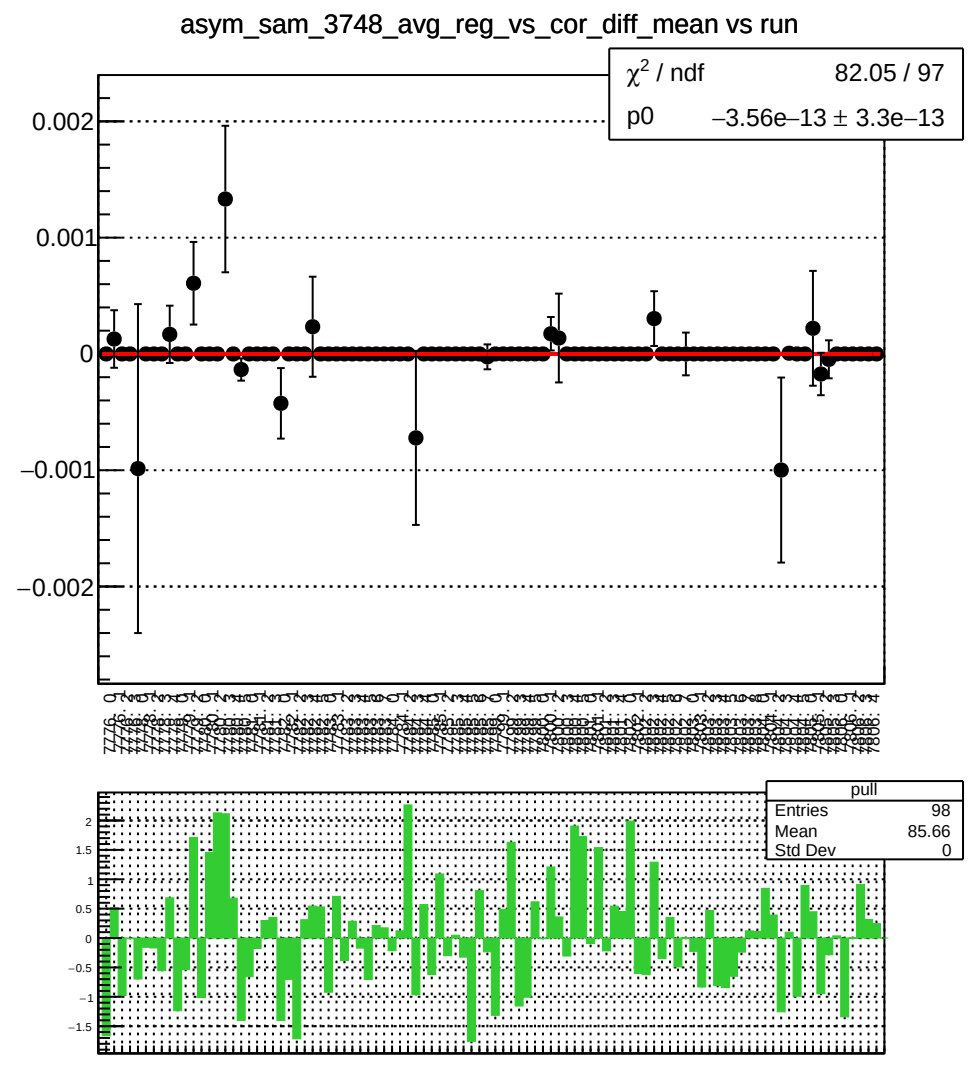

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.75 / 97
p0 −1274 ± 2512
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −478.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.006505
Std Dev 0.8436
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

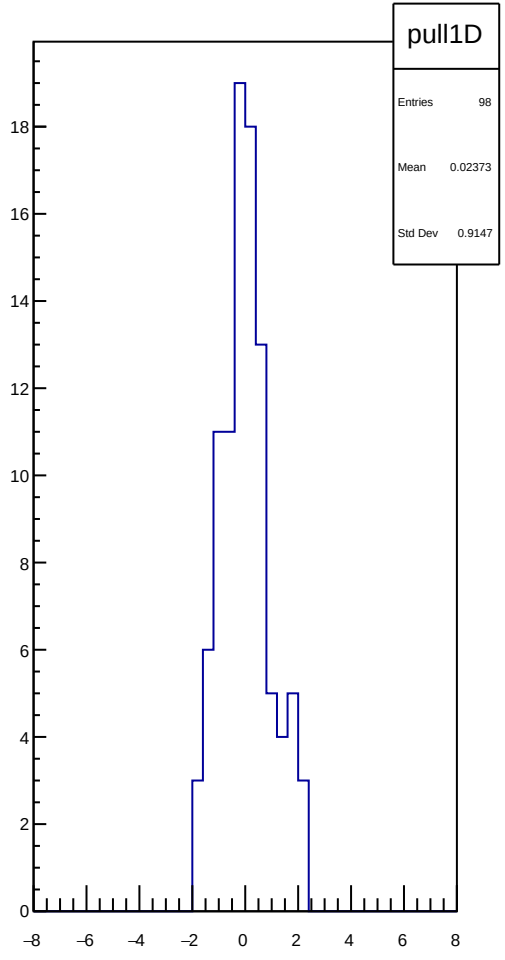

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 2928 / 97
p0 2474 ± 1.776
2800
2700
2600
2500
2400
2300
2200

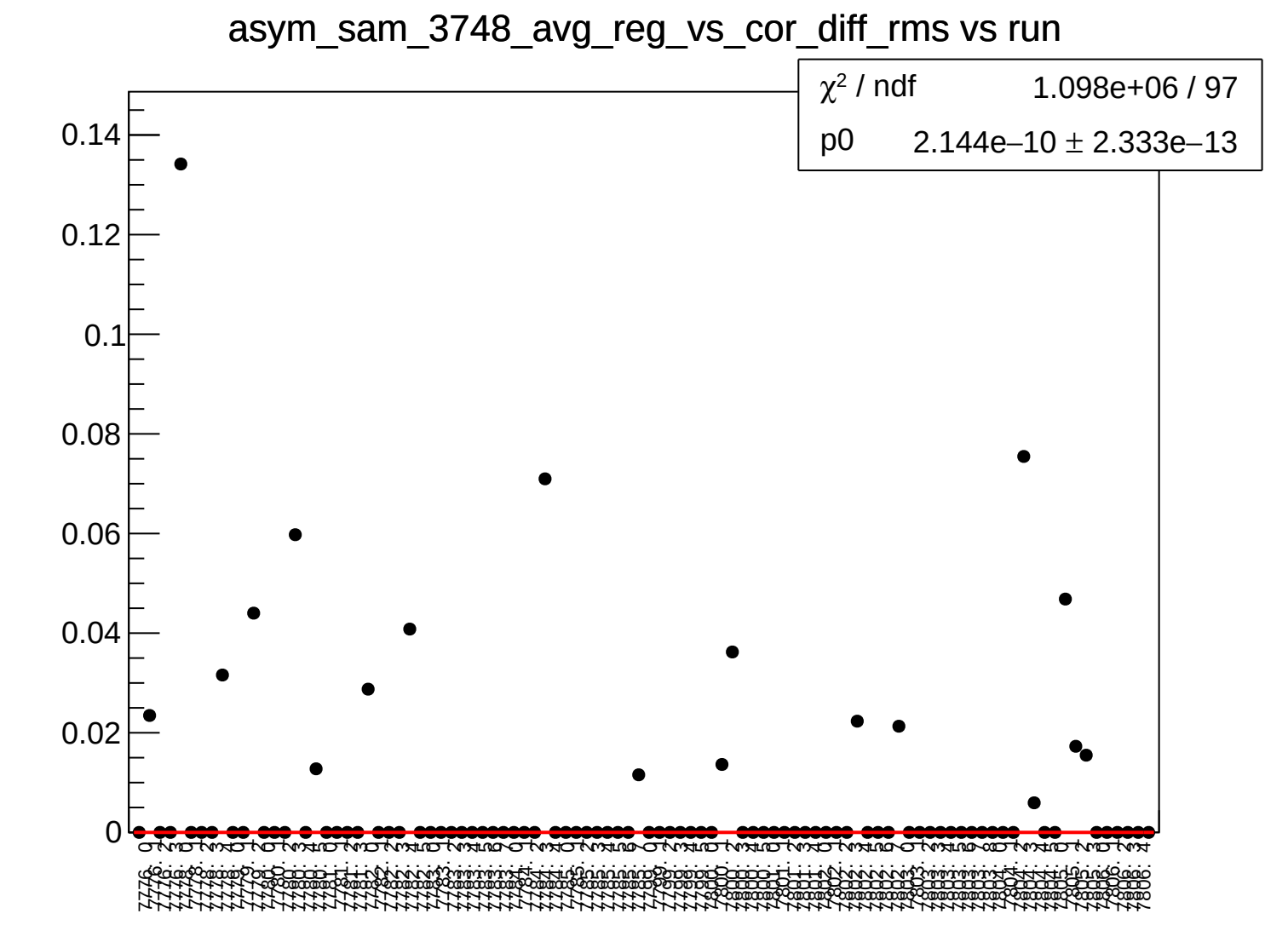

asym_sam_3748_avg_mean vs run
χ² / ndf 69.26 / 97
p0 1144 ± 2521
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −1273
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

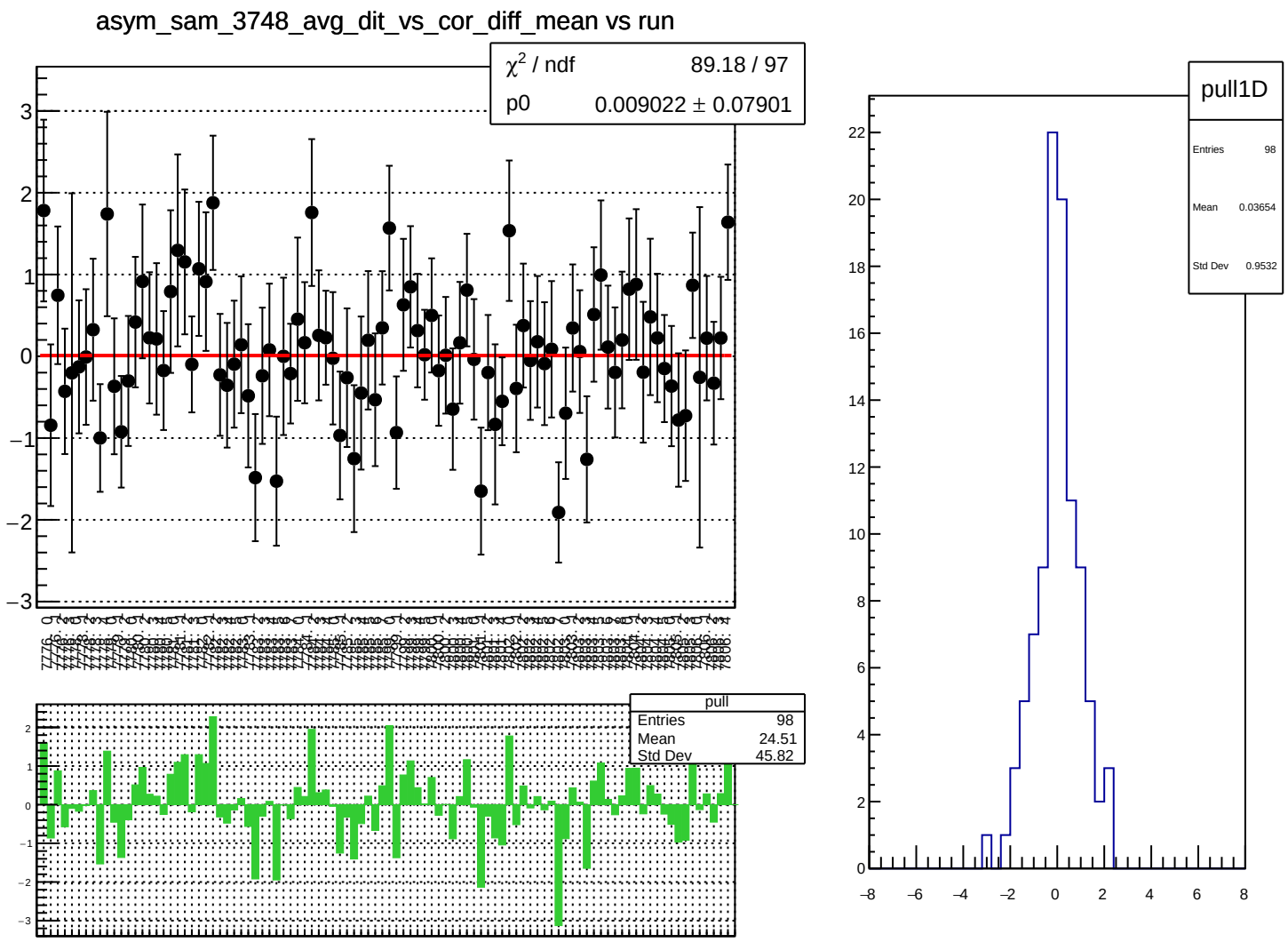

pull1D
Entries 98
Mean −0.002664
Std Dev 0.8407
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

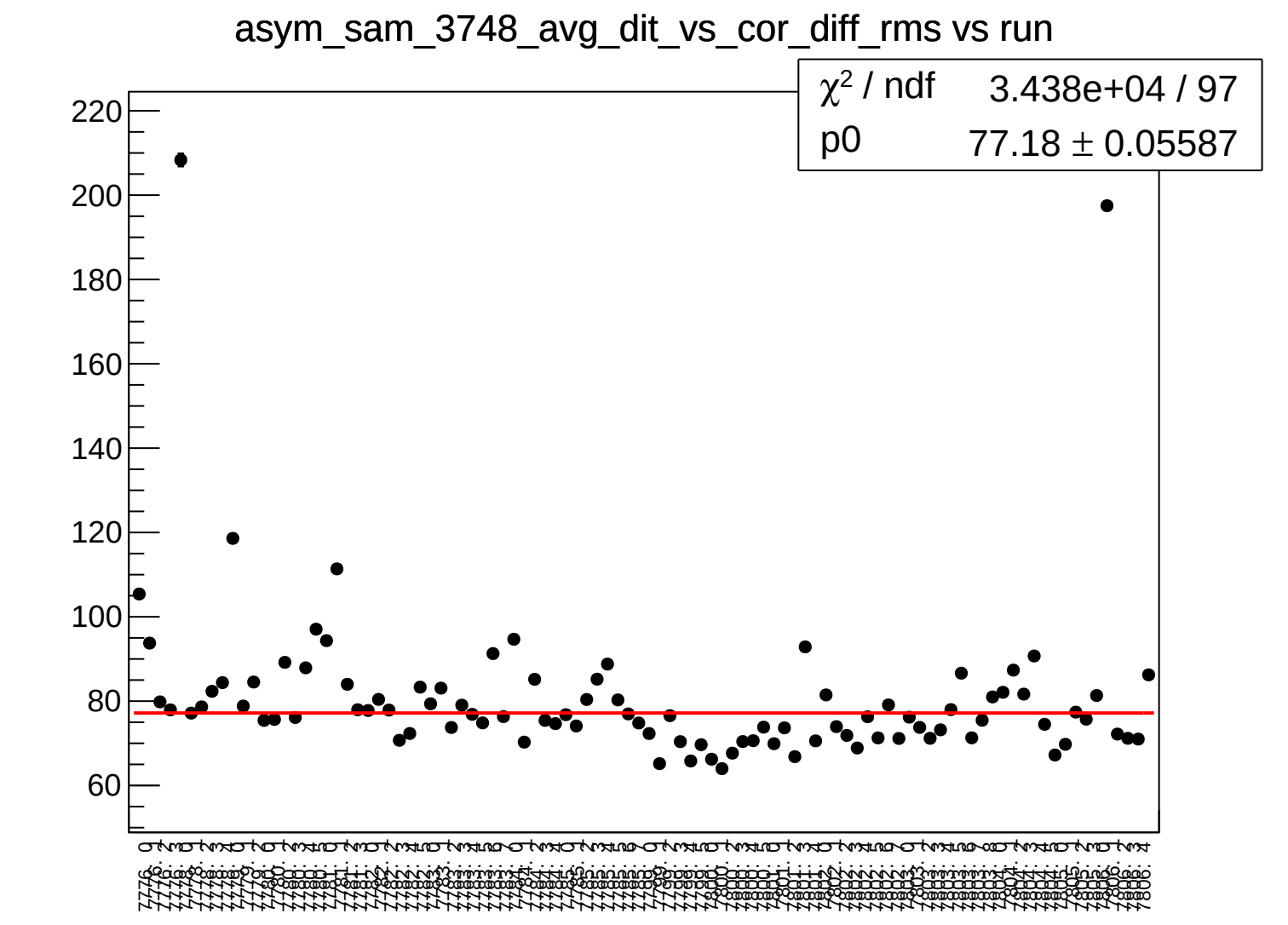

asym_sam_3748_avg_rms vs run
χ² / ndf 2643 / 97
p0 2483 ± 1.783
2800
2700
2600
2500
2400
2300
2200

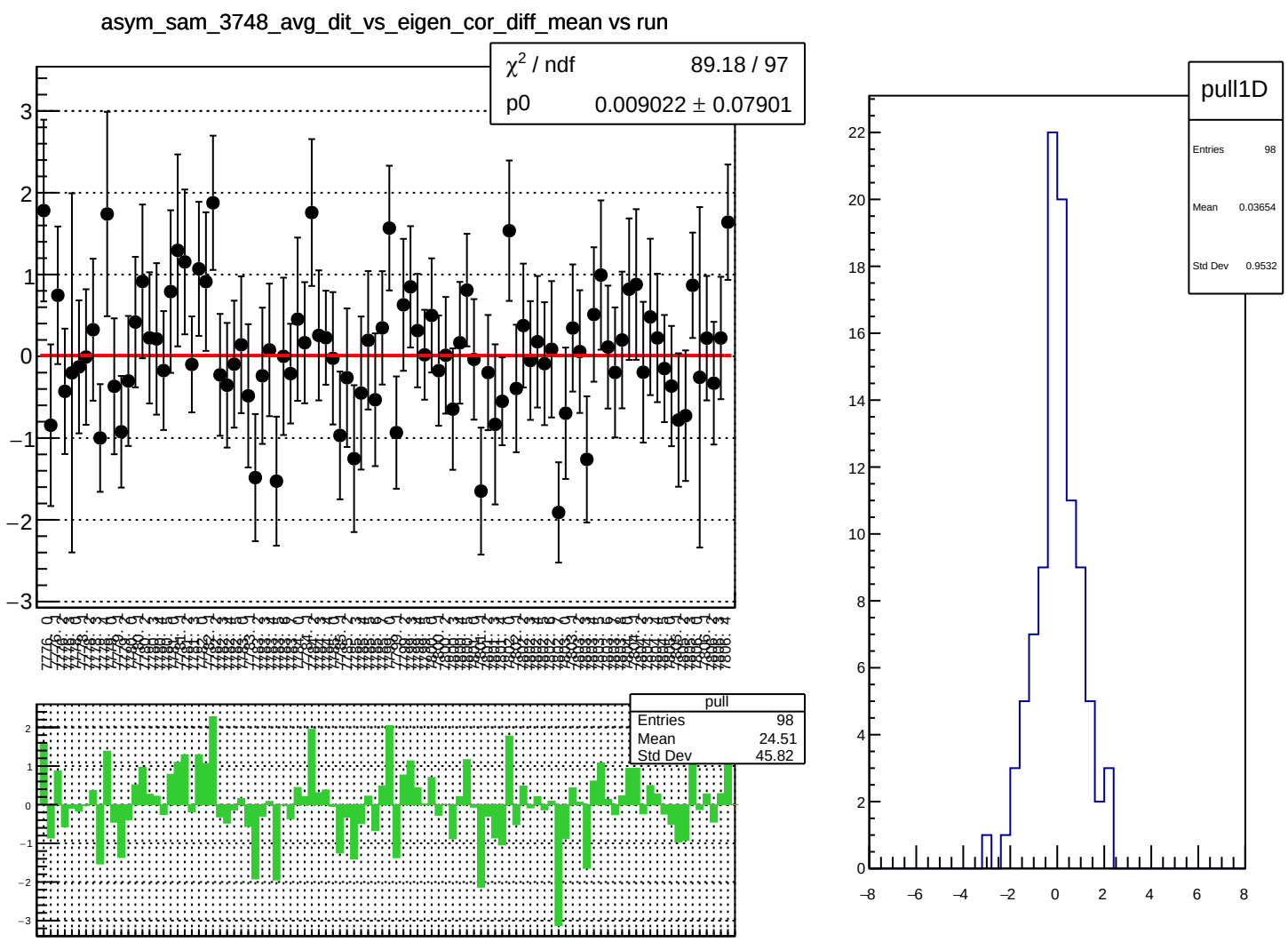

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.05 / 97
p0 −3.56e−13 ± 3.3e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 98
Mean 85.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

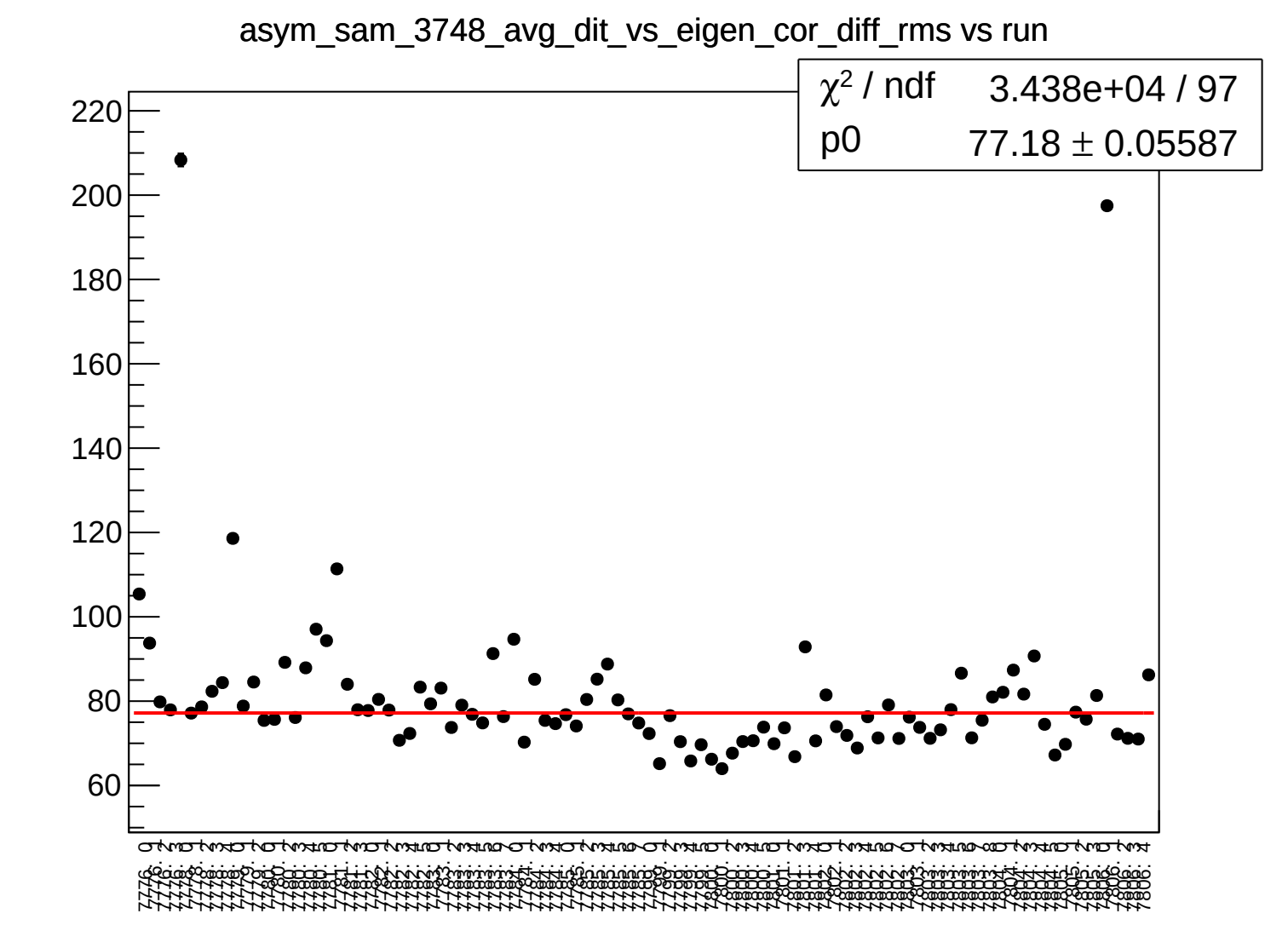

pull1D
Entries 98
Mean 0.02373
Std Dev 0.9147
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

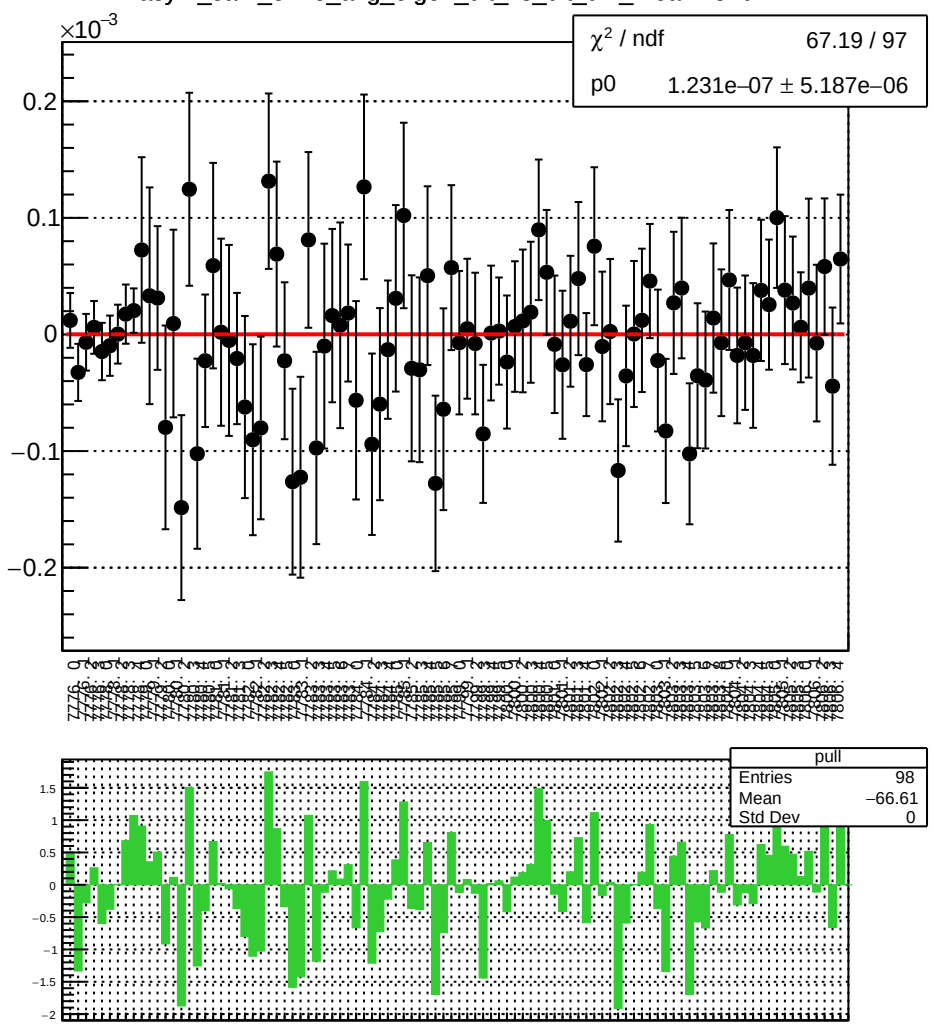

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.098e+06 / 97
p0 2.144e−10 ± 2.333e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

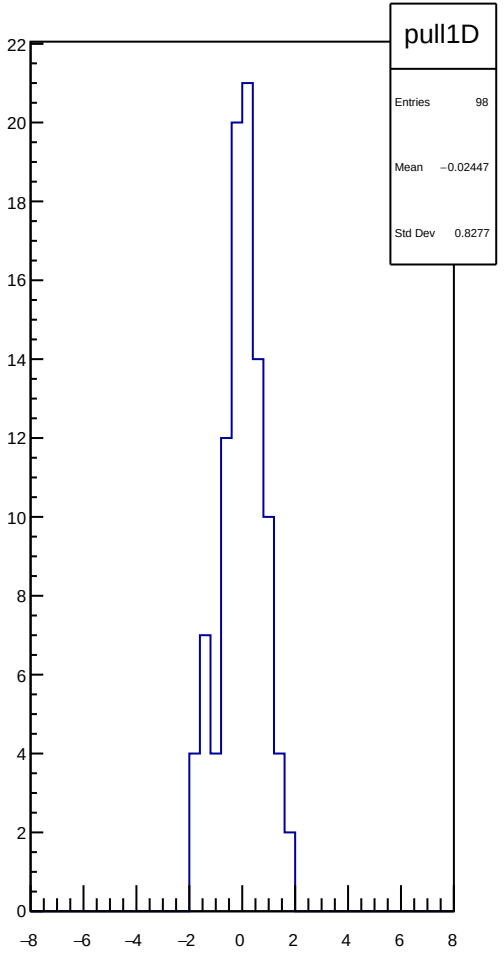

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.18 / 97
p0 0.009022 ± 0.07901
pull
Entries 98
Mean 24.51
Std Dev 45.82
pull1D
Entries 98
Mean 0.03654
Std Dev 0.9532

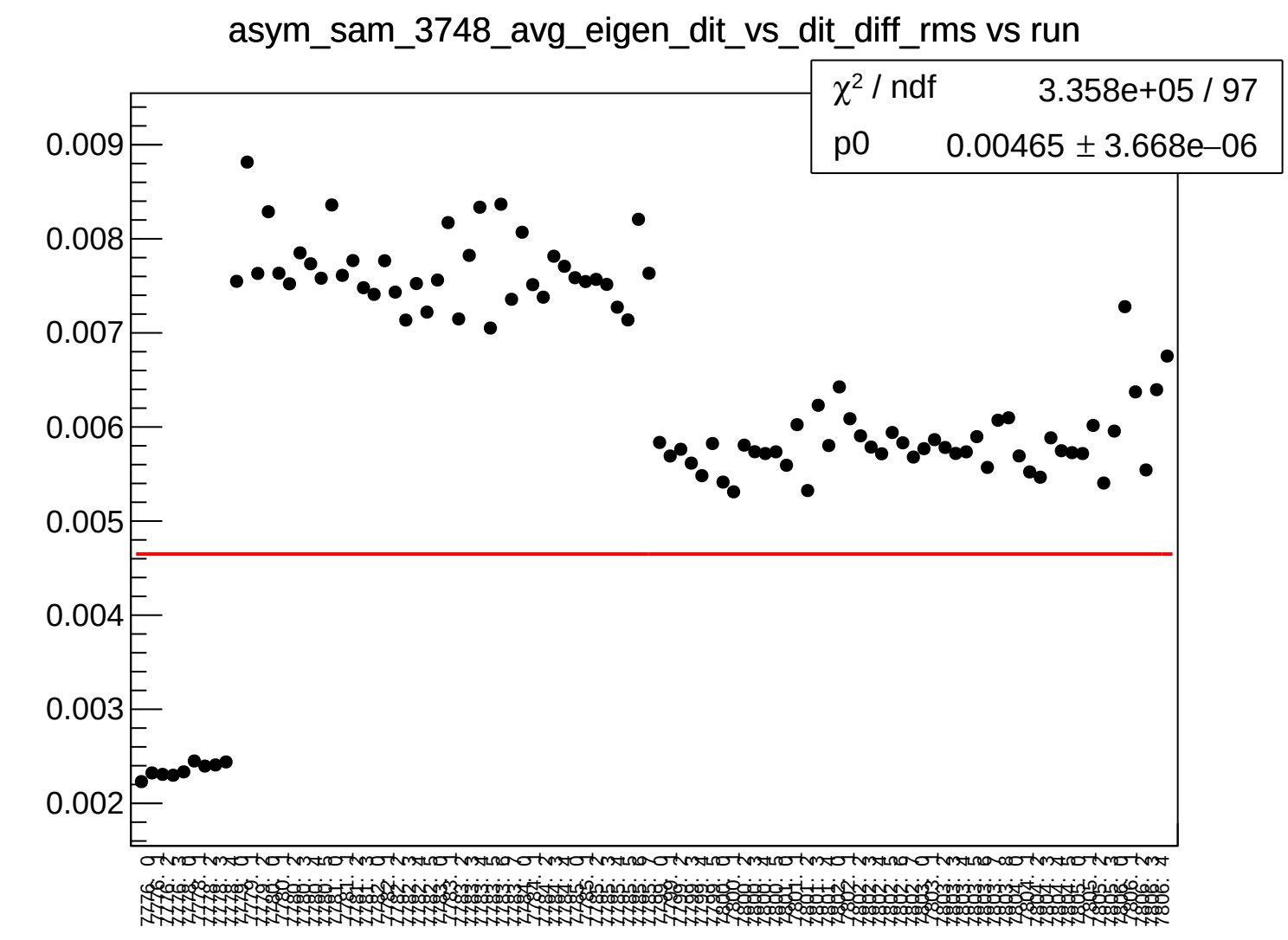

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.438e+04 / 97
p0 77.18 ± 0.05587
220
200
180
160
140
120
100
80
60

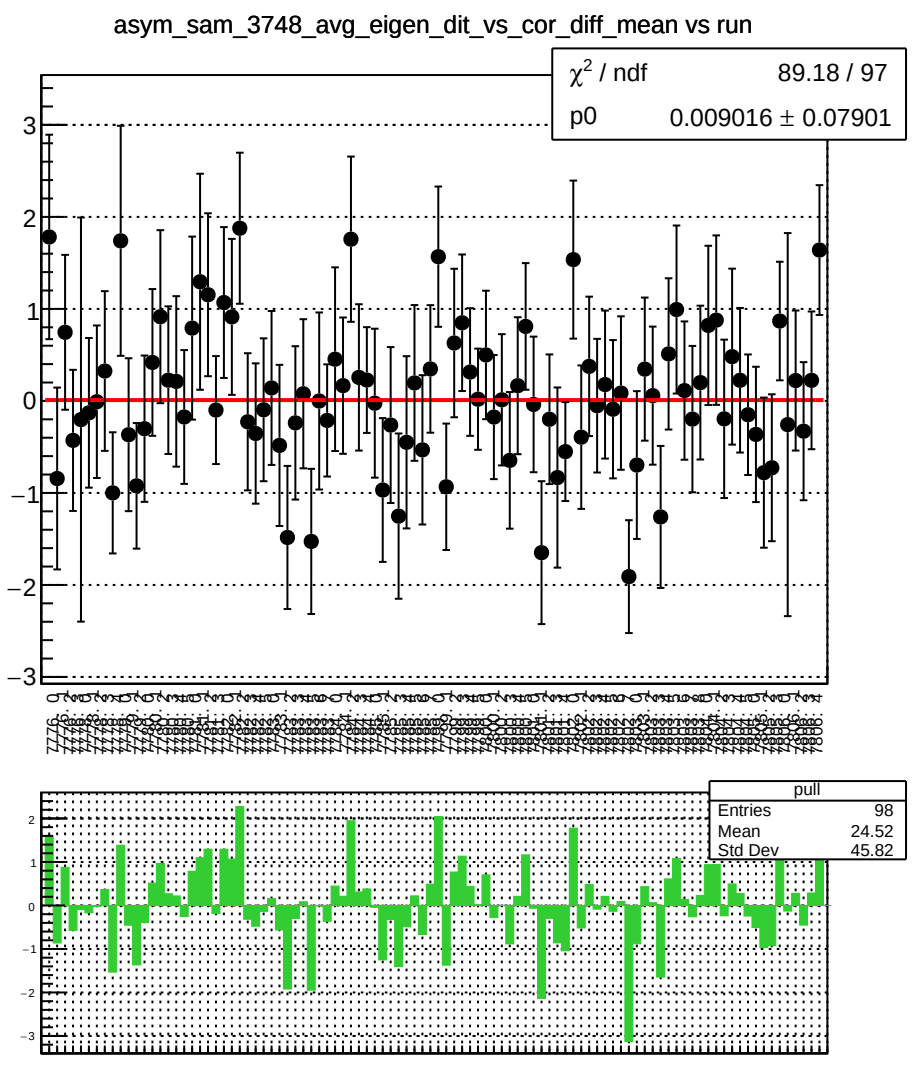

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.18 / 97
p0 0.009022 ± 0.07901
pull
Entries 98
Mean 24.51
Std Dev 45.82
pull1D
Entries 98
Mean 0.03654
Std Dev 0.9532

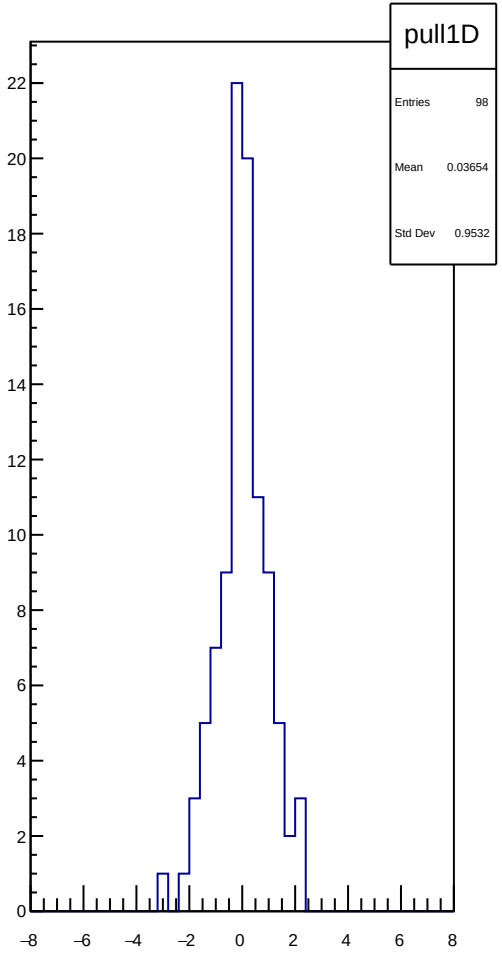

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.438e+04 / 97
p0 77.18 ± 0.05587
220
200
180
160
140
120
100
80
60

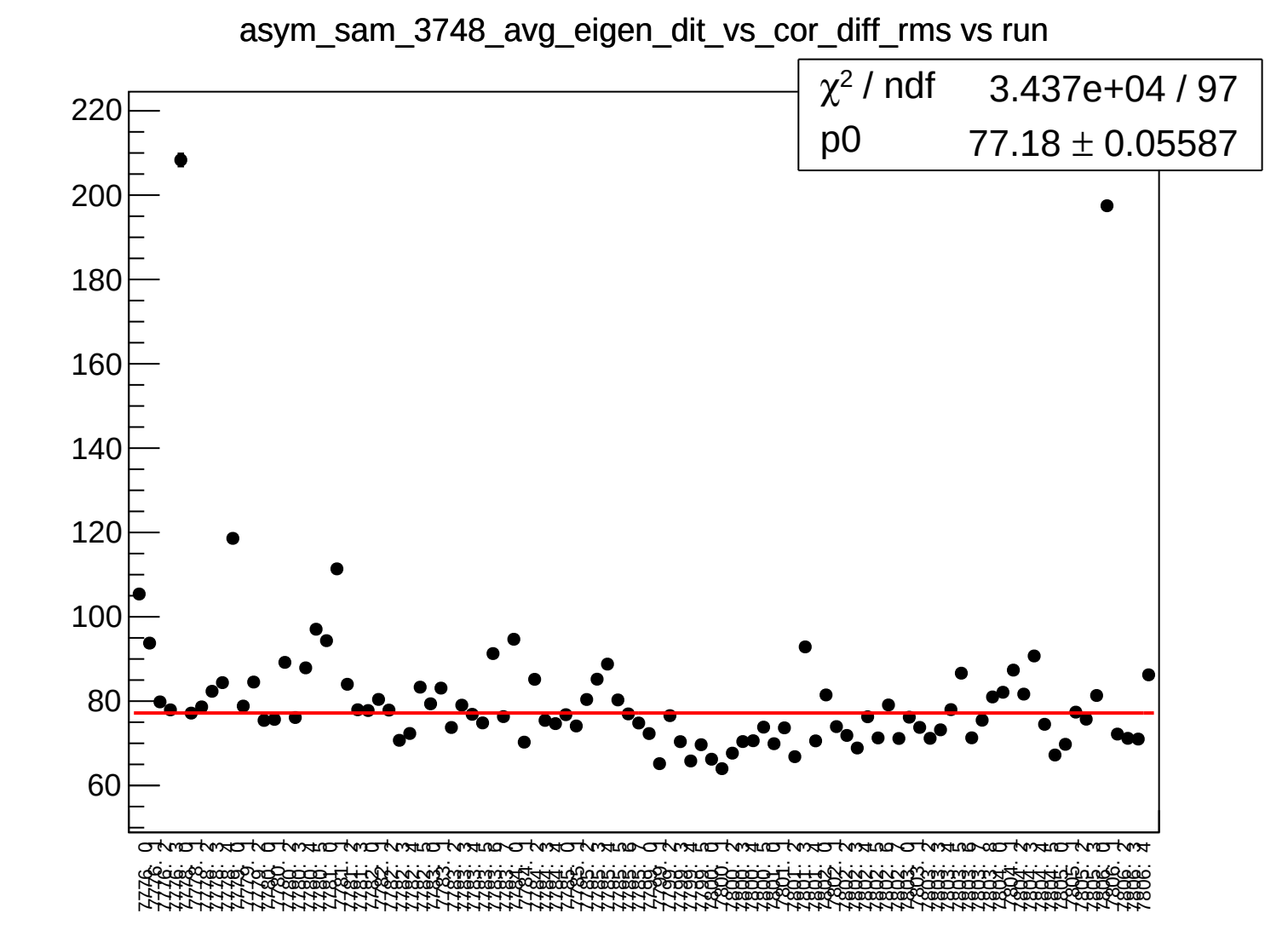

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.19 / 97
p0 1.231e−07 ± 5.187e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 98
Mean −66.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

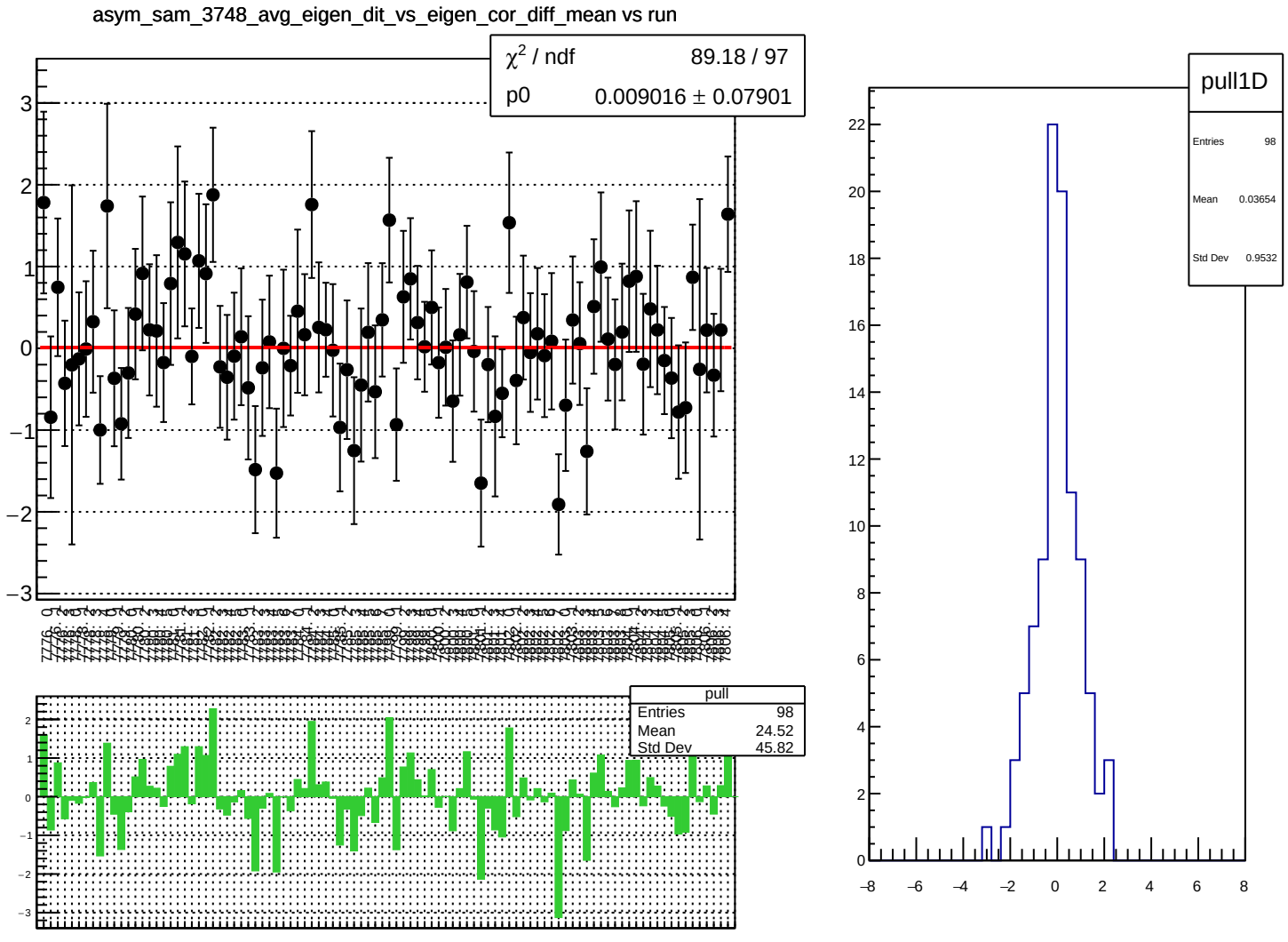

pull1D
Entries 98
Mean −0.02447
Std Dev 0.8277
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

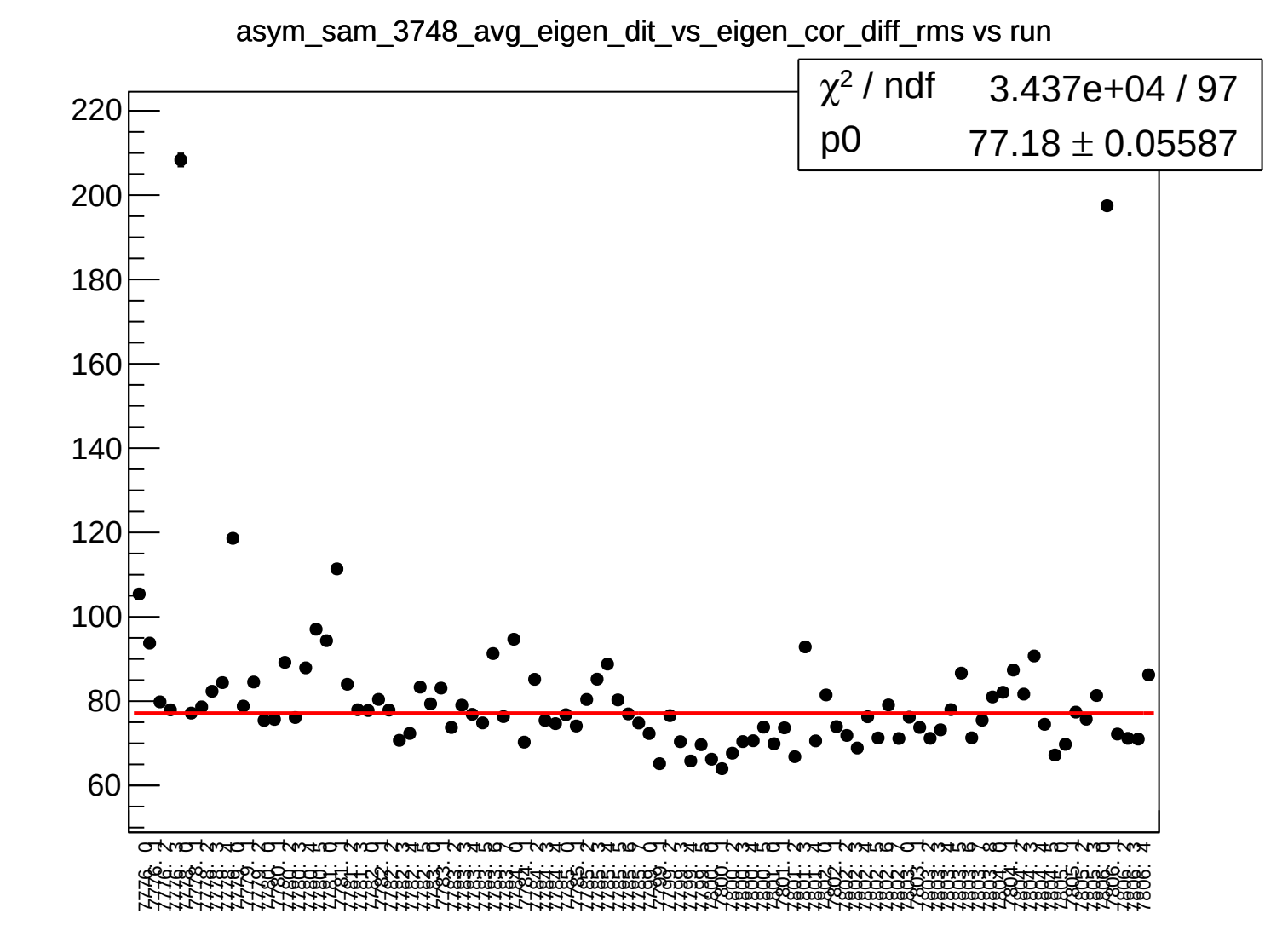

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.358e+05 / 97
p0 0.00465 ± 3.668e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

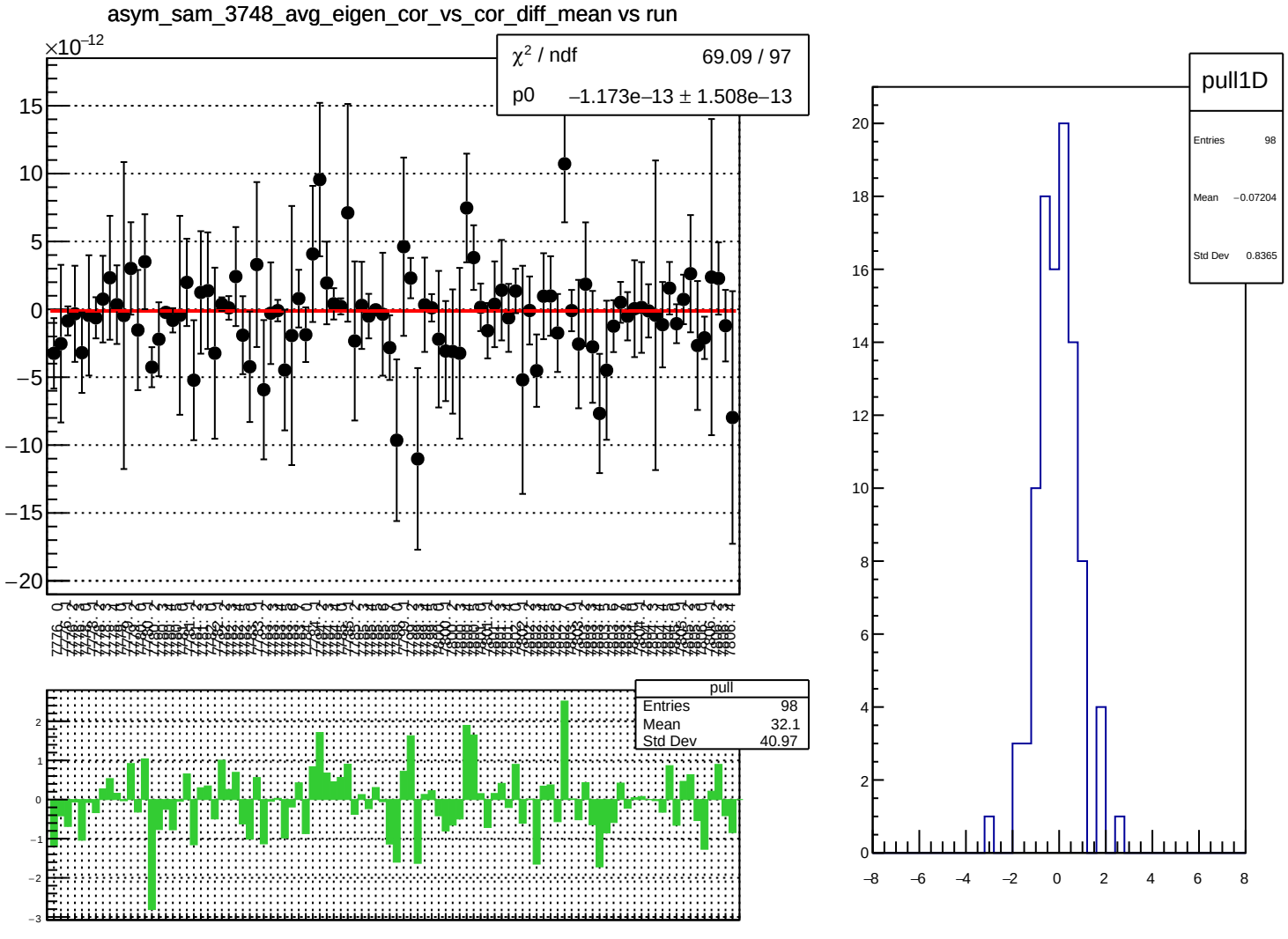

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.18 / 97
p0 0.009016 ± 0.07901
pull
Entries 98
Mean 24.52
Std Dev 45.82

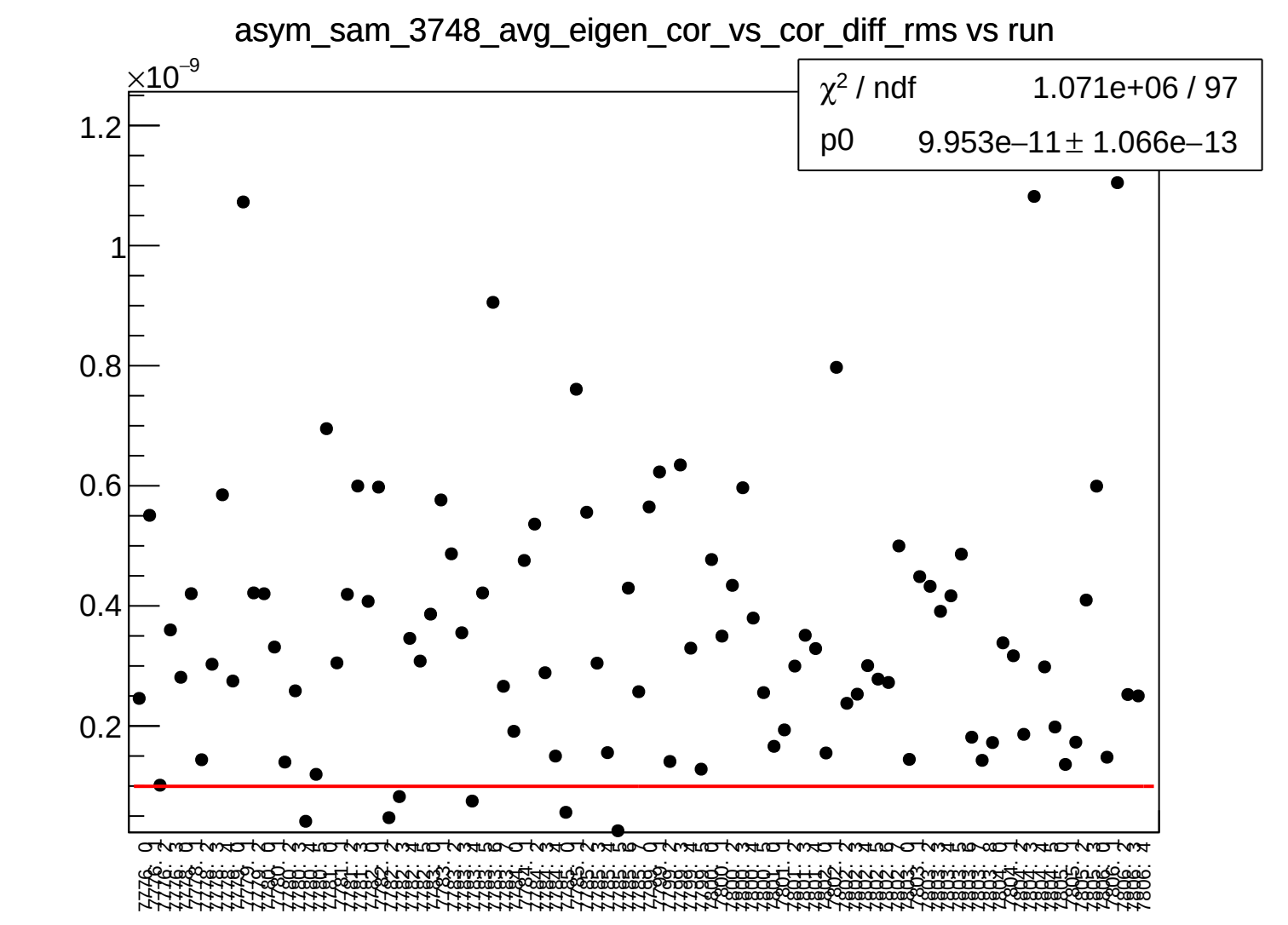

pull1D
Entries 98
Mean 0.03654
Std Dev 0.9532

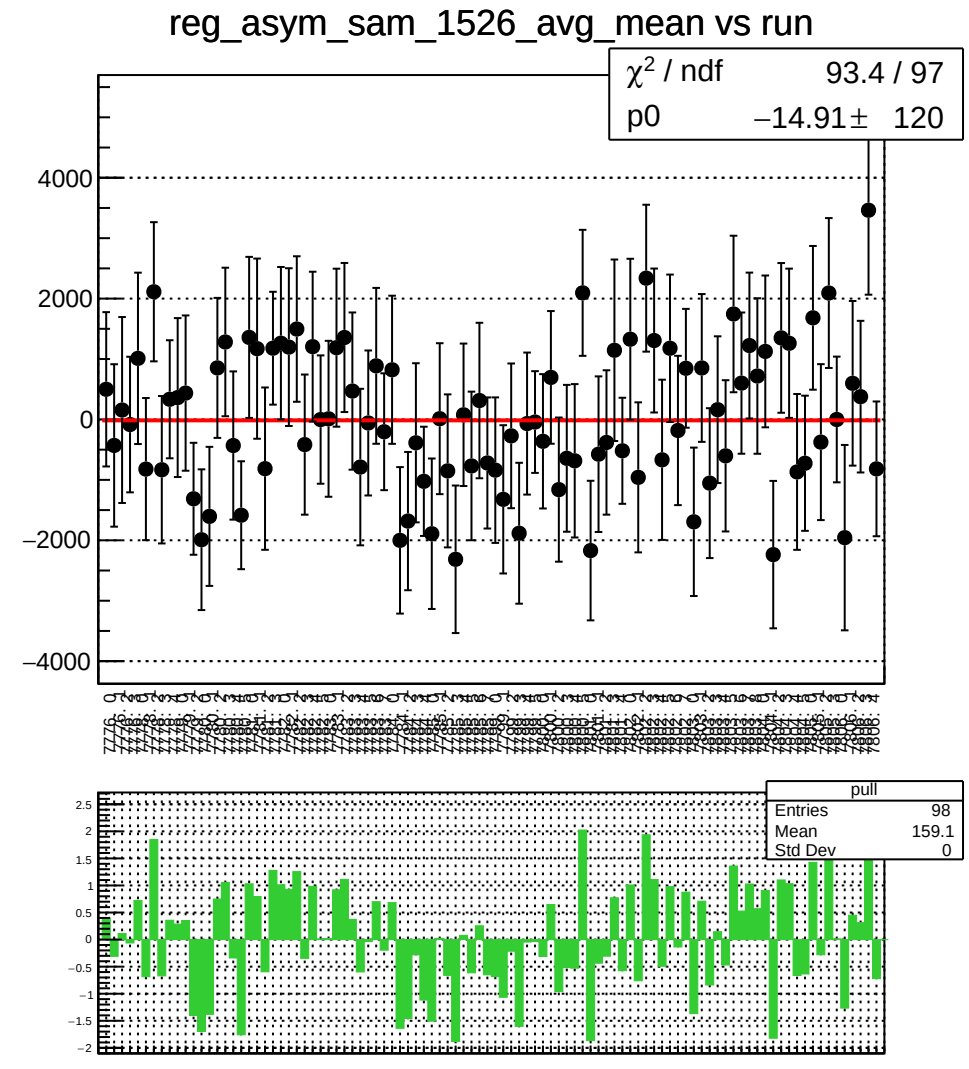

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.437e+04 / 97
p0 77.18 ± 0.05587
220
200
180
160
140
120
100
80
60

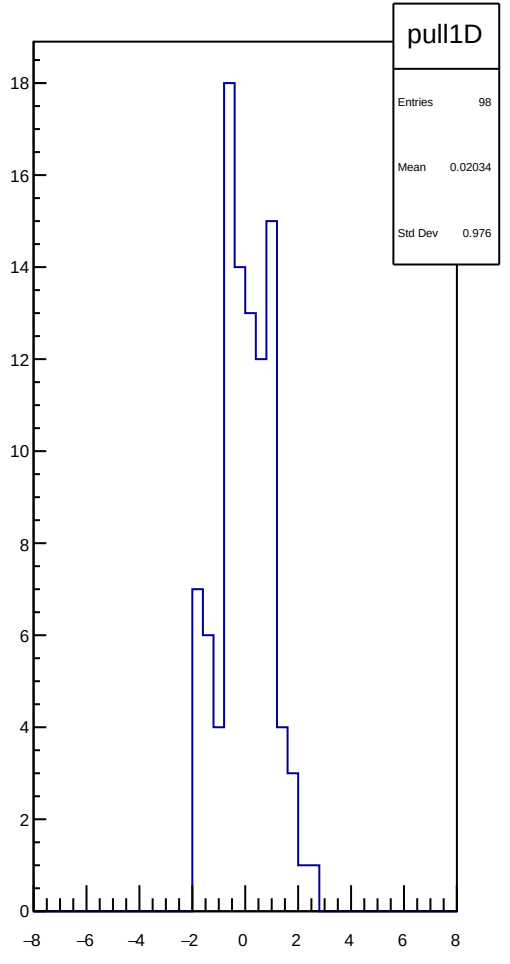

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.18 / 97
p0 0.009016 ± 0.07901
pull
Entries 98
Mean 24.52
Std Dev 45.82
pull1D
Entries 98
Mean 0.03654
Std Dev 0.9532

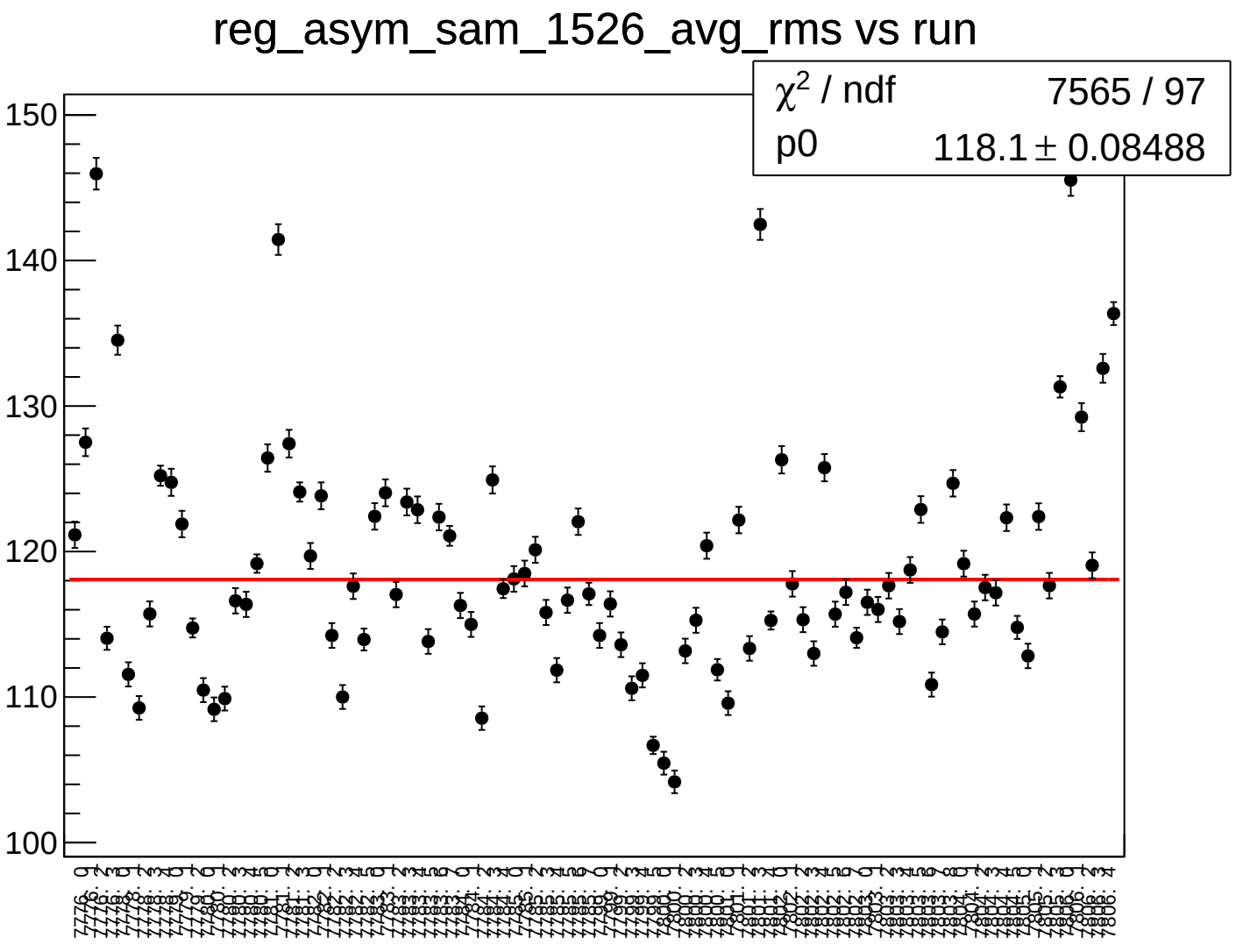

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.437e+04 / 97
p0 77.18 ± 0.05587
220
200
180
160
140
120
100
80
60

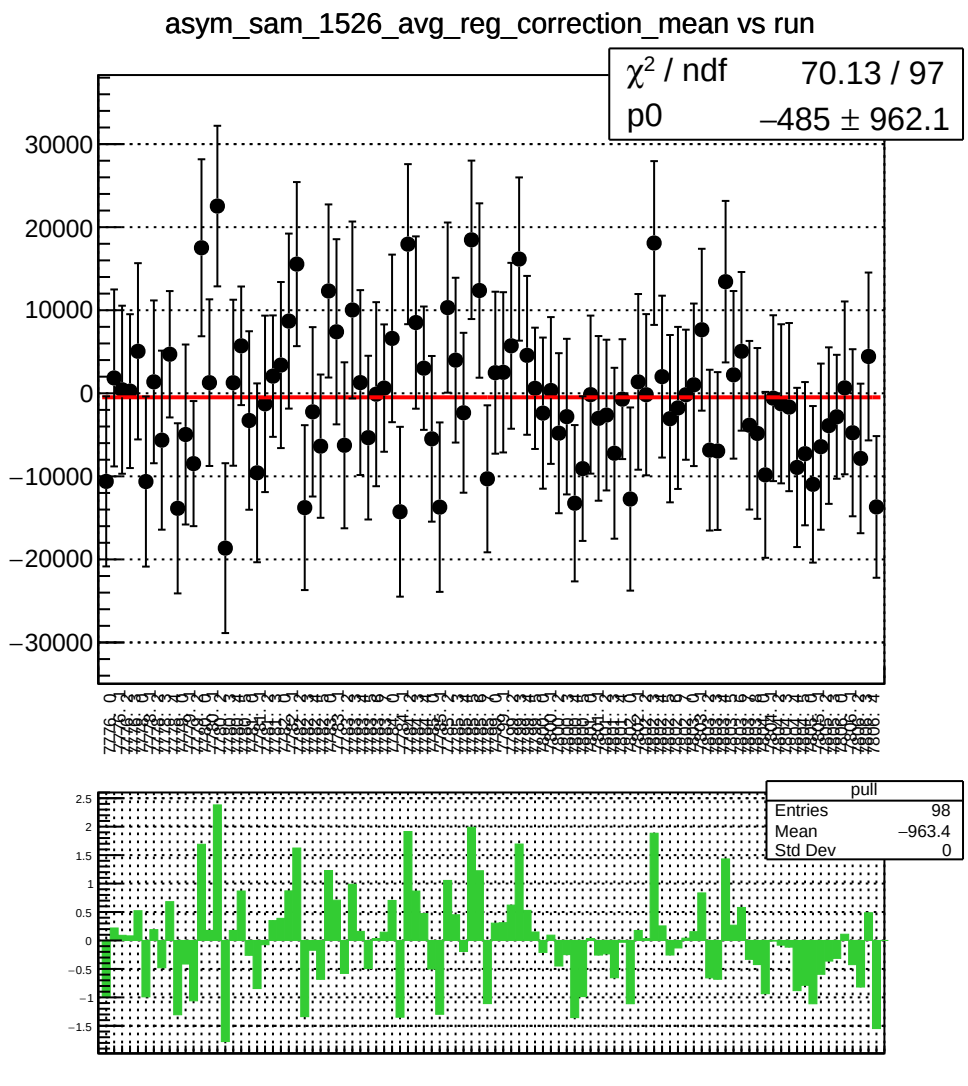

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.09 / 97
p0 −1.173e−13 ± 1.508e−13
pull
Entries 98
Mean 32.1
Std Dev 40.97
pull1D
Entries 98
Mean −0.07204
Std Dev 0.8365

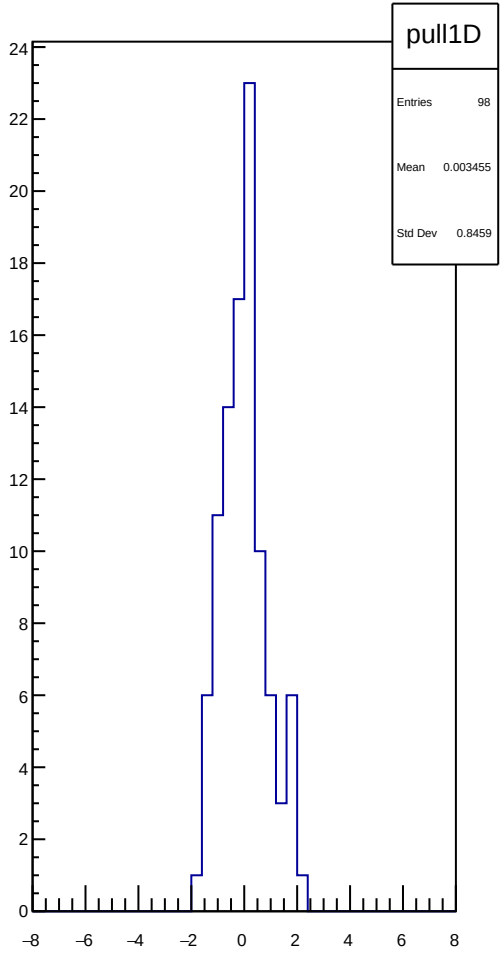

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.071e+06 / 97
p0 9.953e−11 ± 1.066e−13
1.2
1
0.8
0.6
0.4
0.2

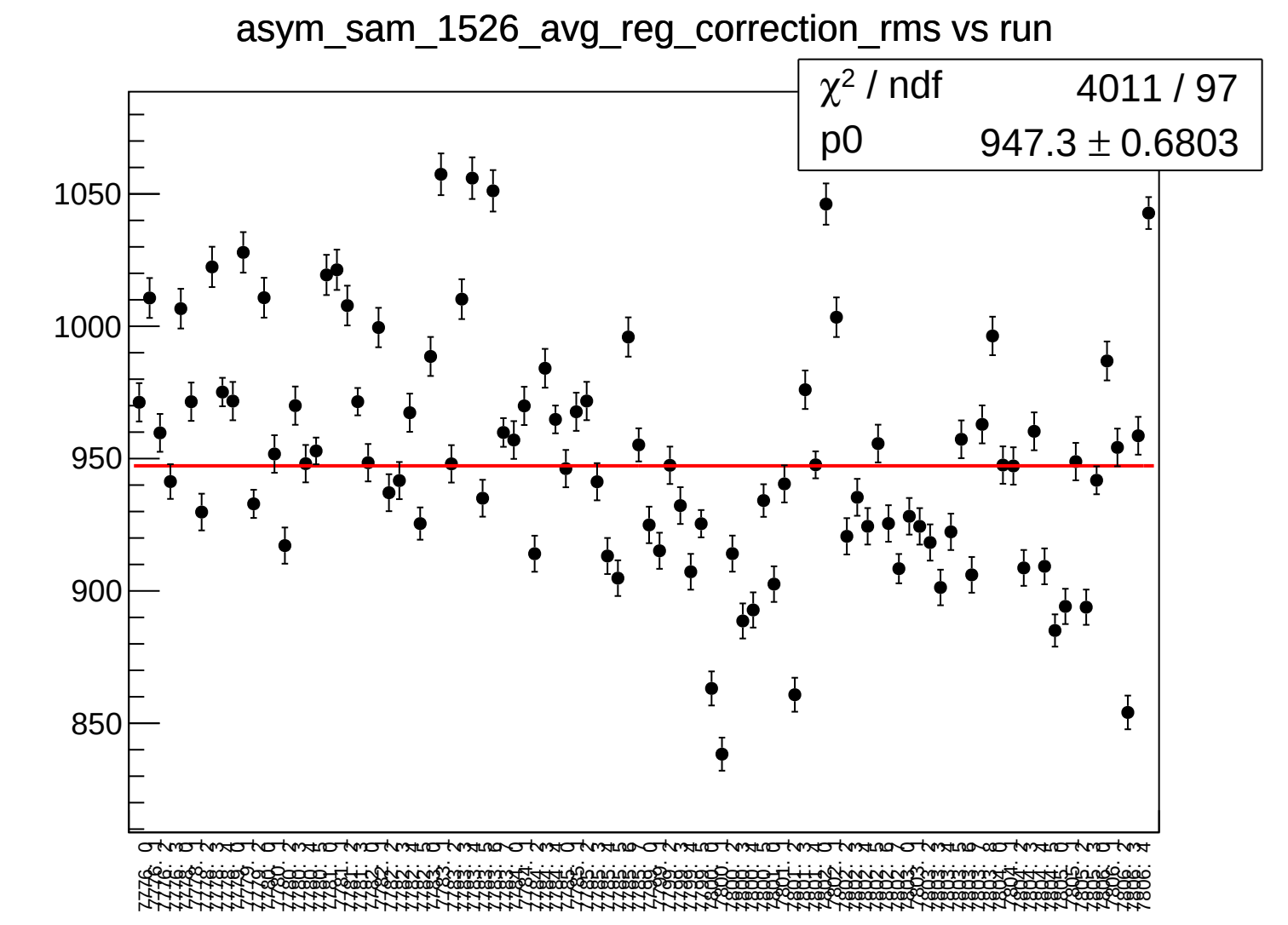

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 93.4 / 97
p0 −14.91 ± 120
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 159.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

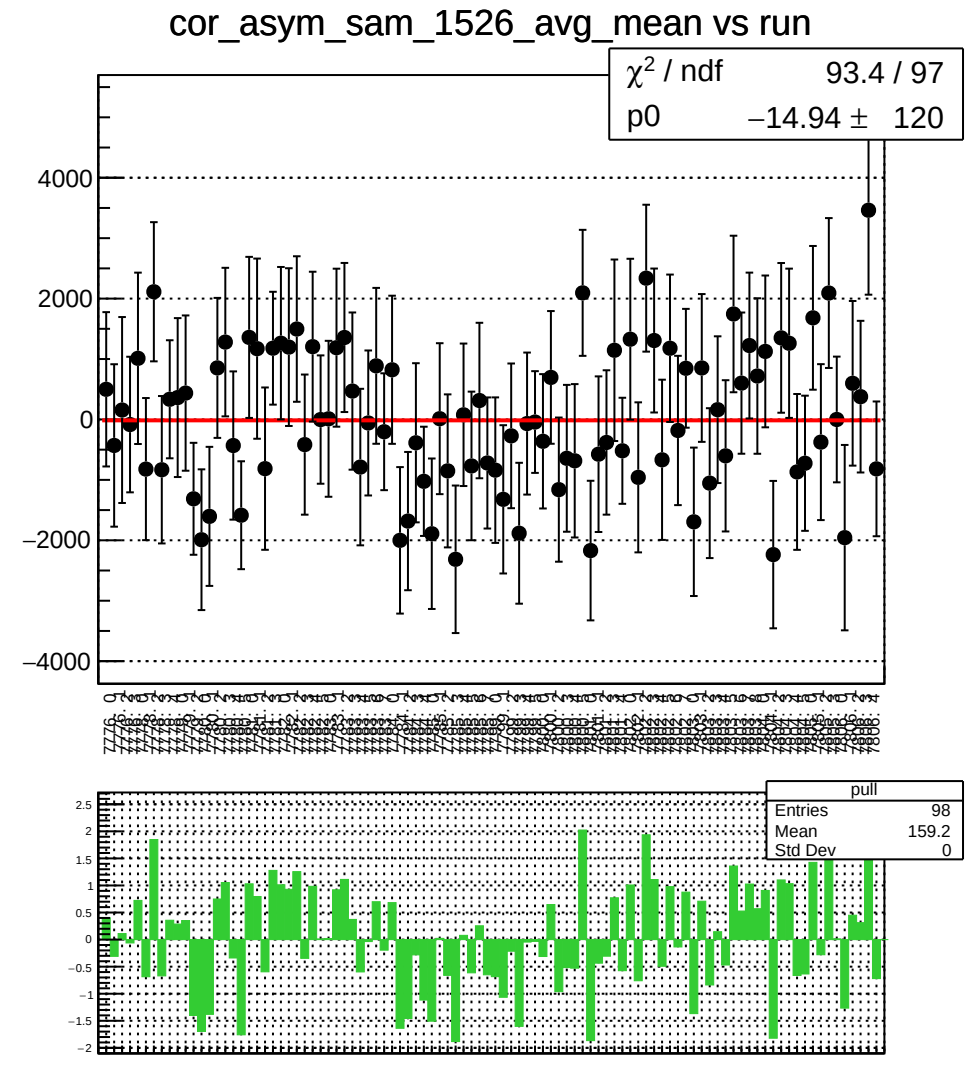

pull1D
Entries 98
Mean 0.02034
Std Dev 0.976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

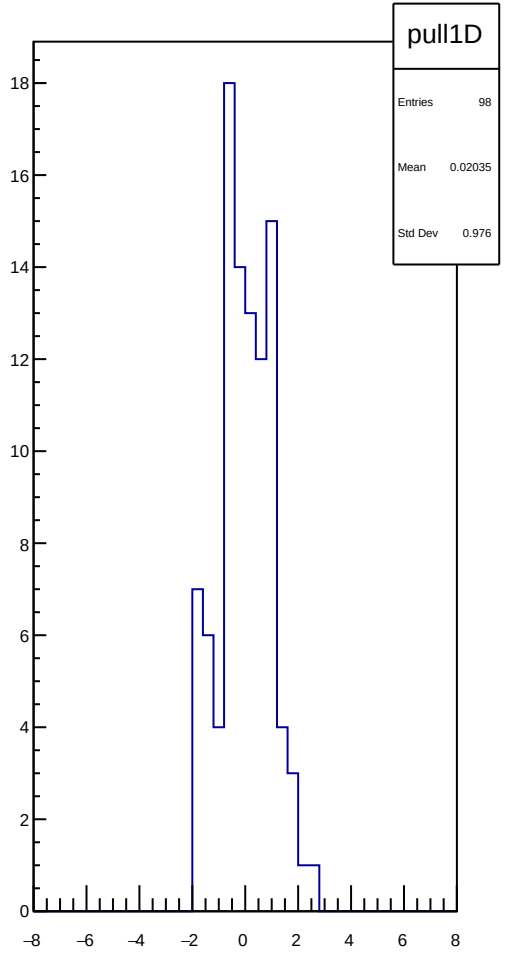

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 7565 / 97
p0 118.1 ± 0.08488
150
140
130
120
110
100

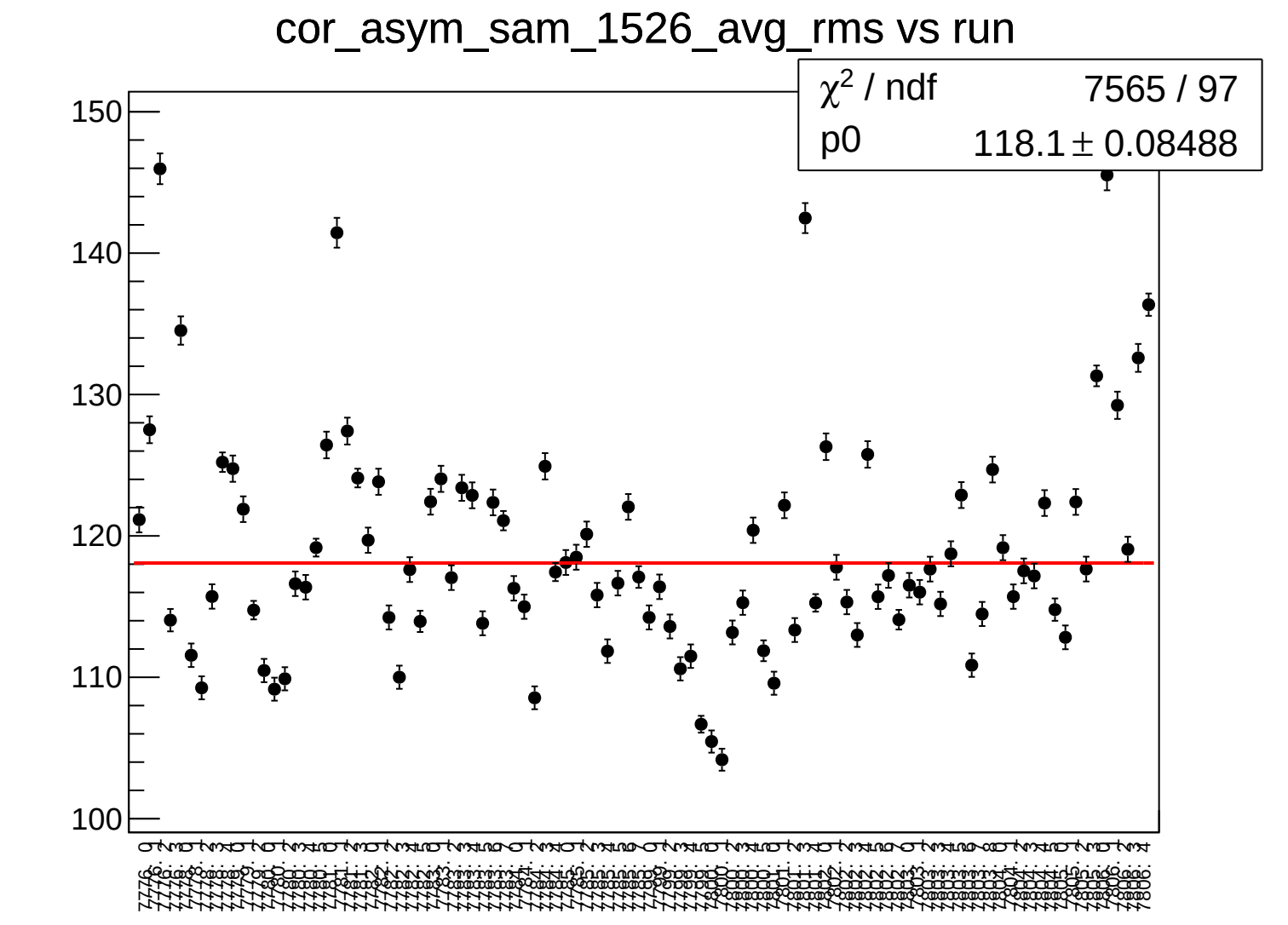

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 70.13 / 97
p0 –485 ± 962.1
30000
20000
10000
0
–10000
–20000
–30000
pull
Entries 98
Mean –963.4
Std Dev 0
2.5
2
1.5
1
0.5
0
–0.5
–1
–1.5

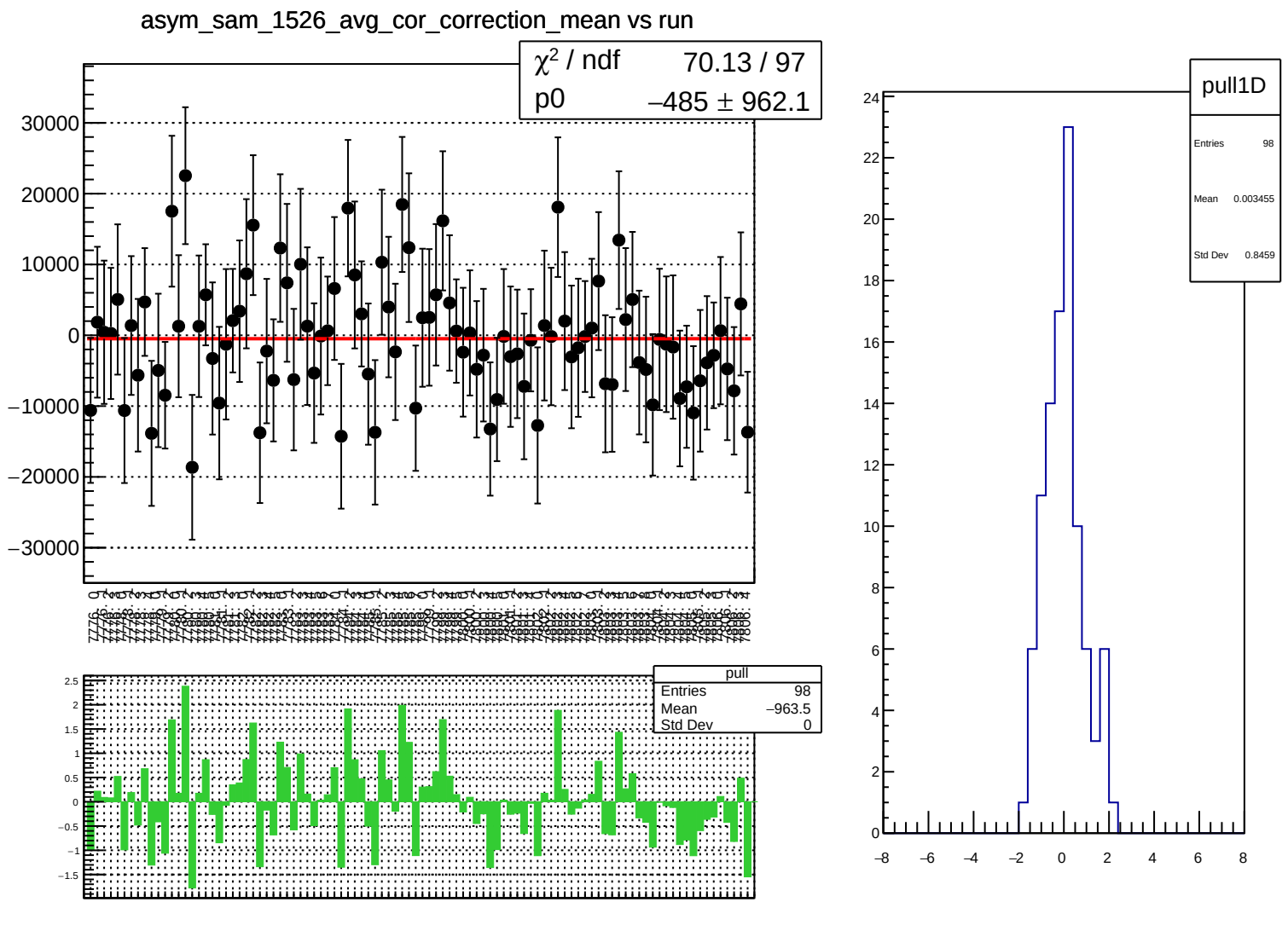

pull1D
Entries 98
Mean 0.003455
Std Dev 0.8459
24
22
20
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

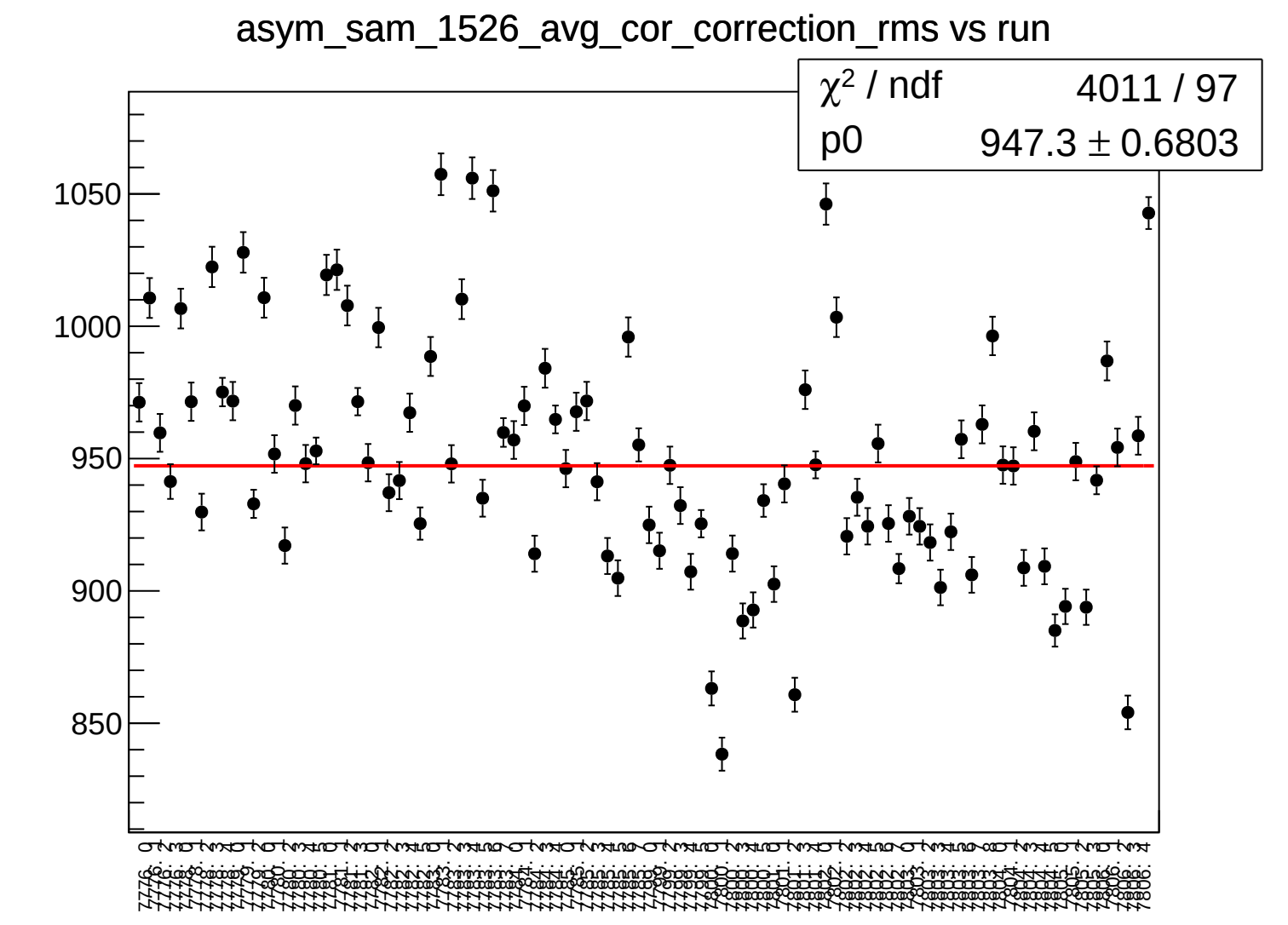

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 4011 / 97
p0 947.3 ± 0.6803
1050
1000
950
900
850

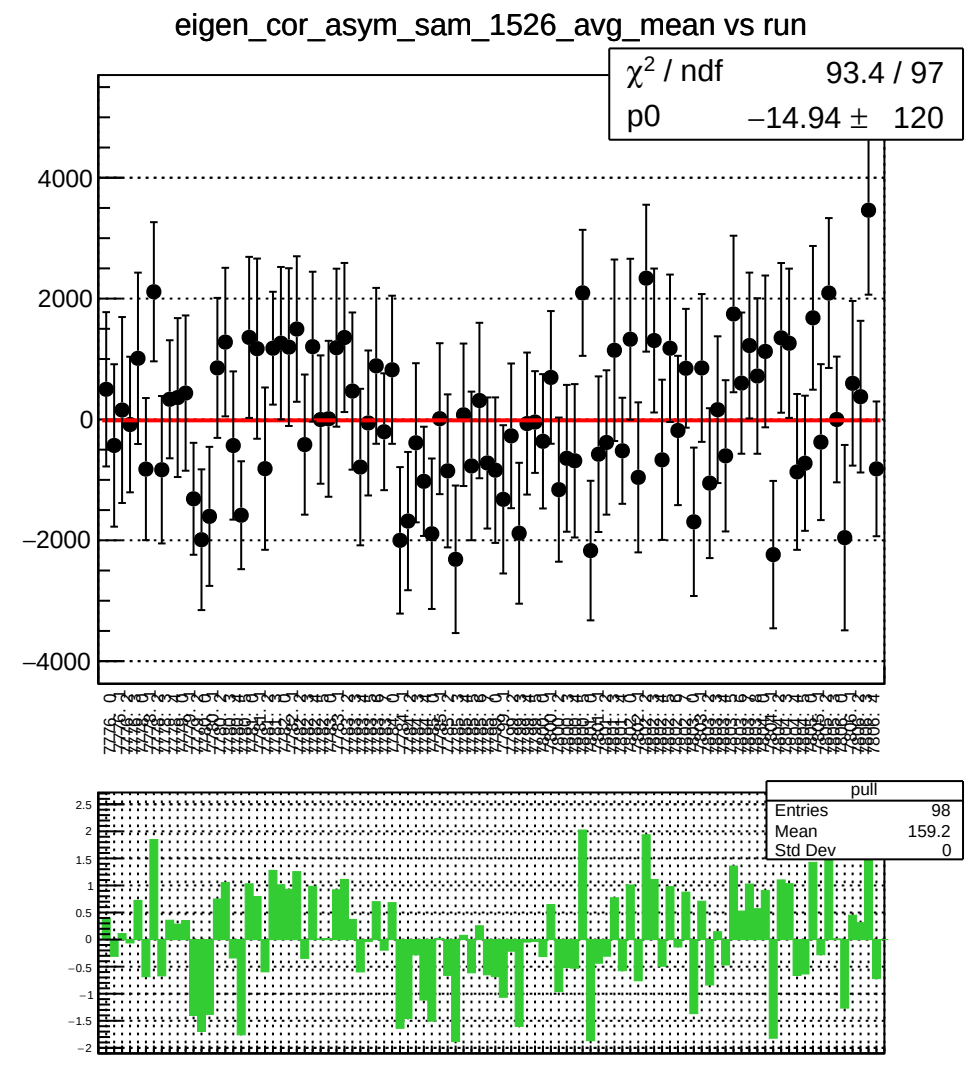

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 93.4 / 97
p0 −14.94 ± 120
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 159.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

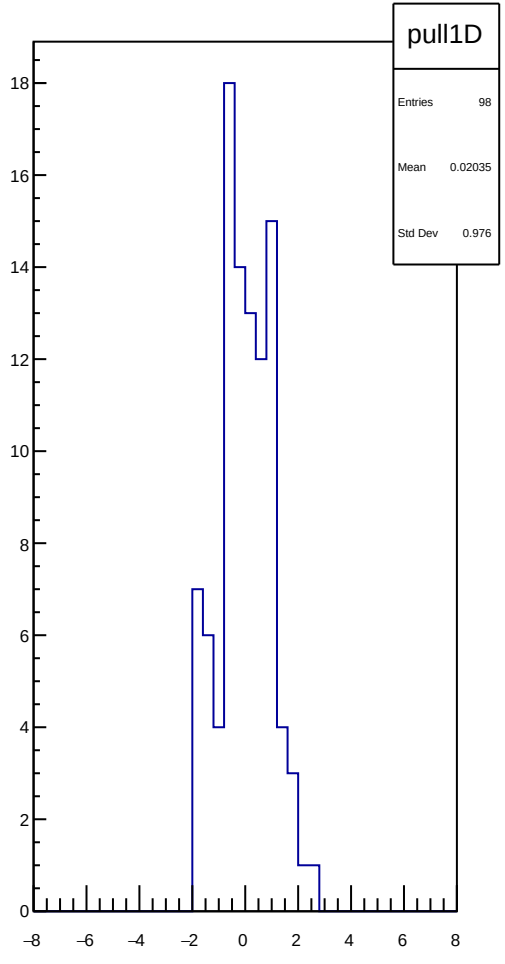

pull1D
Entries 98
Mean 0.02035
Std Dev 0.976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 7565 / 97
p0 118.1 ± 0.08488
150
140
130
120
110
100


asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 70.13 / 97
p0 –485 ± 962.1
30000
20000
10000
0
–10000
–20000
–30000
pull
Entries 98
Mean –963.5
Std Dev 0
2.5
2
1.5
1
0.5
0
–0.5
–1
–1.5
pull1D
Entries 98
Mean 0.003455
Std Dev 0.8459
24
22
20
18
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 4011 / 97
p0 947.3 ± 0.6803
1050
1000
950
900
850


eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 93.4 / 97
p0 −14.94 ± 120
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 159.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 98
Mean 0.02035
Std Dev 0.976
18
16
14
12
10
8
6
4
2
0
−8
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−4
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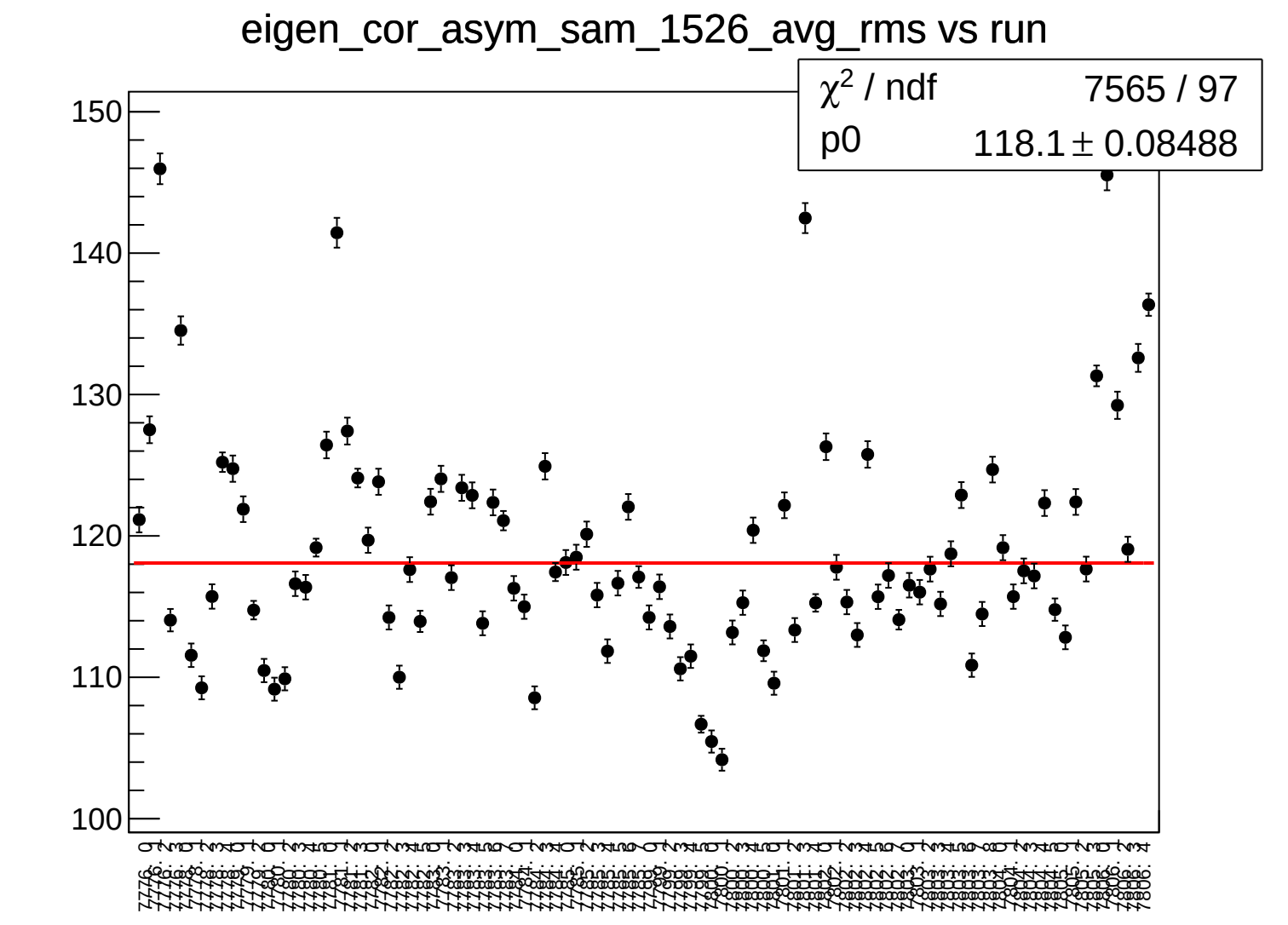
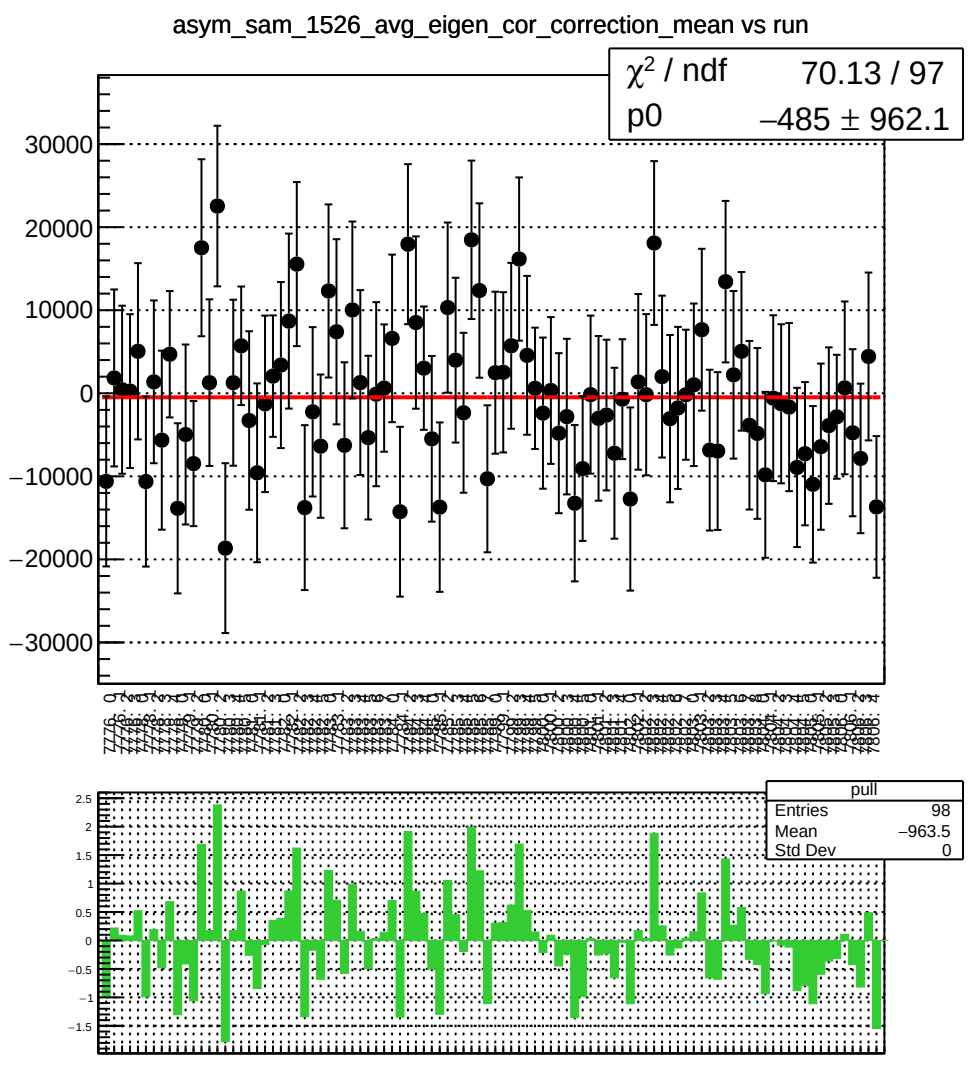
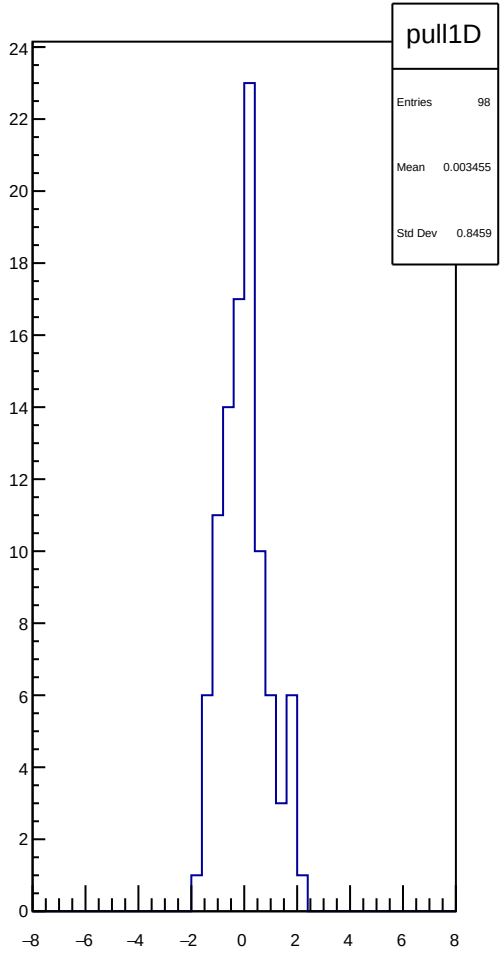
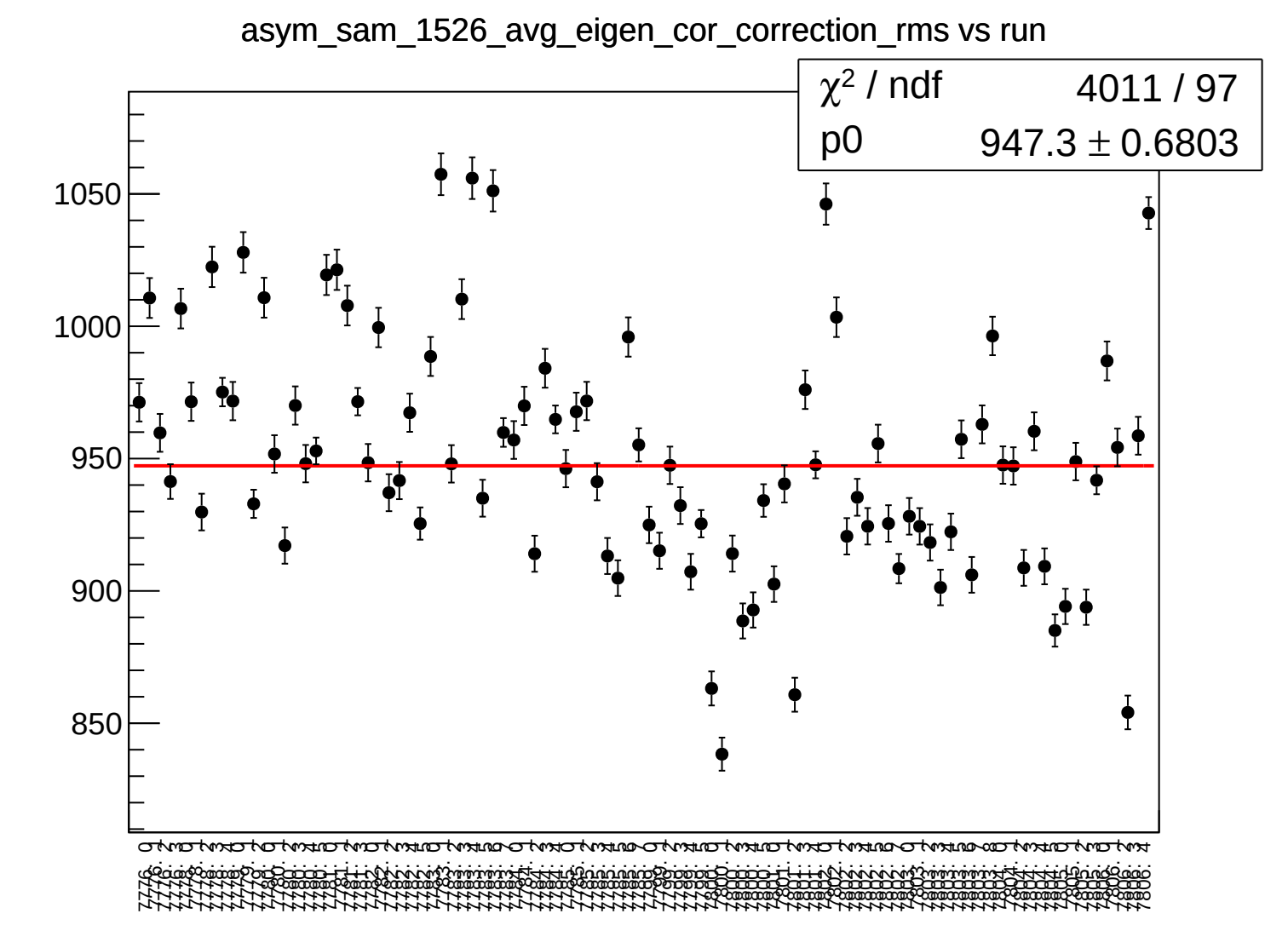
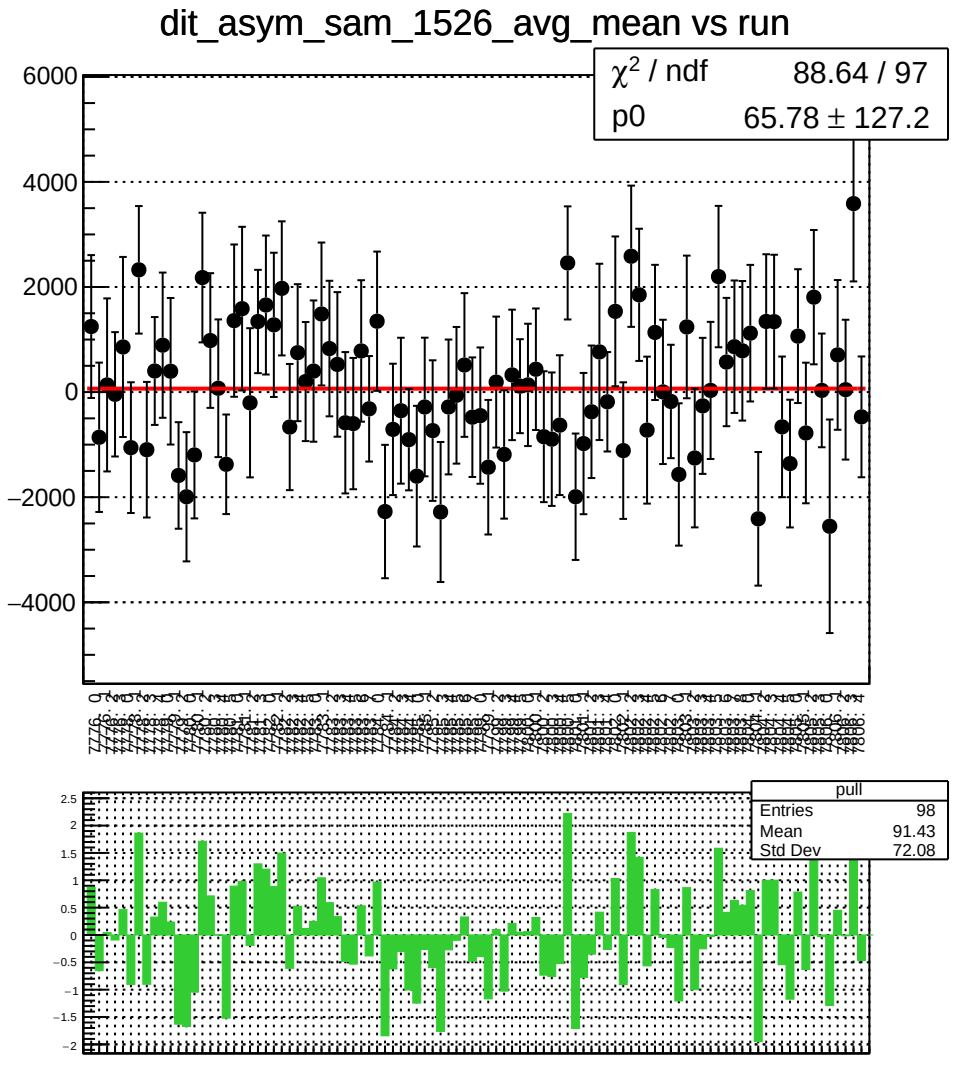
0
2
4
6
8

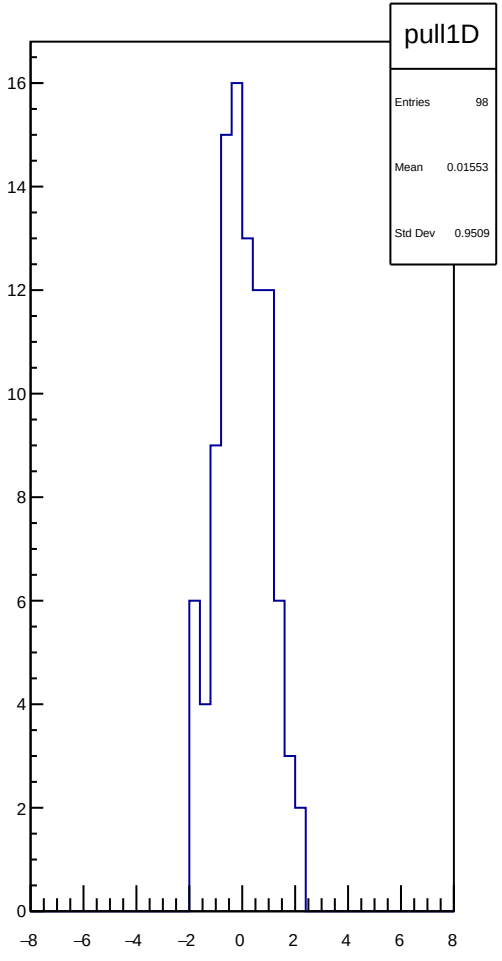

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 7565 / 97
p0 118.1 ± 0.08488
150
140
130
120
110
100

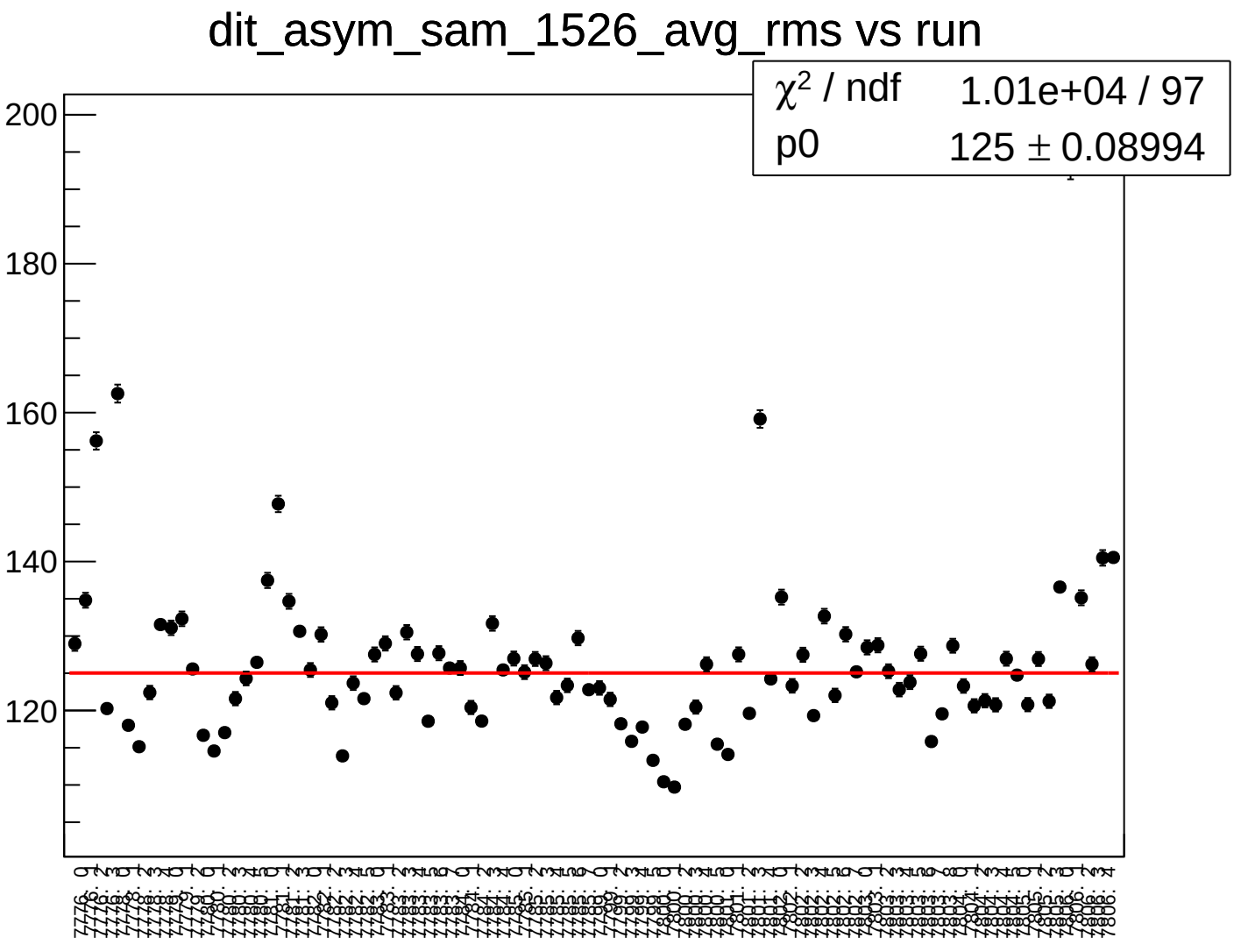

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.13 / 97
p0 −485 ± 962.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −963.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

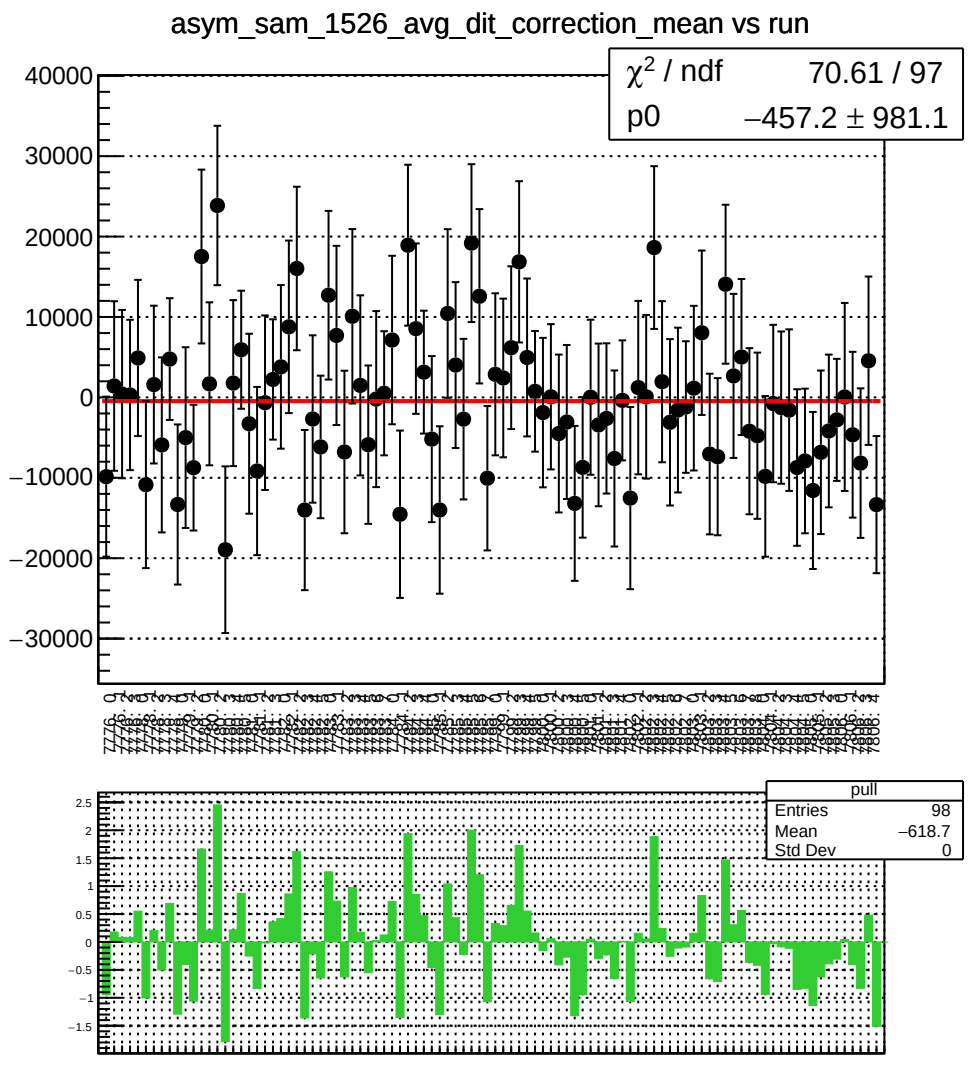

pull1D
Entries 98
Mean 0.003455
Std Dev 0.8459
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

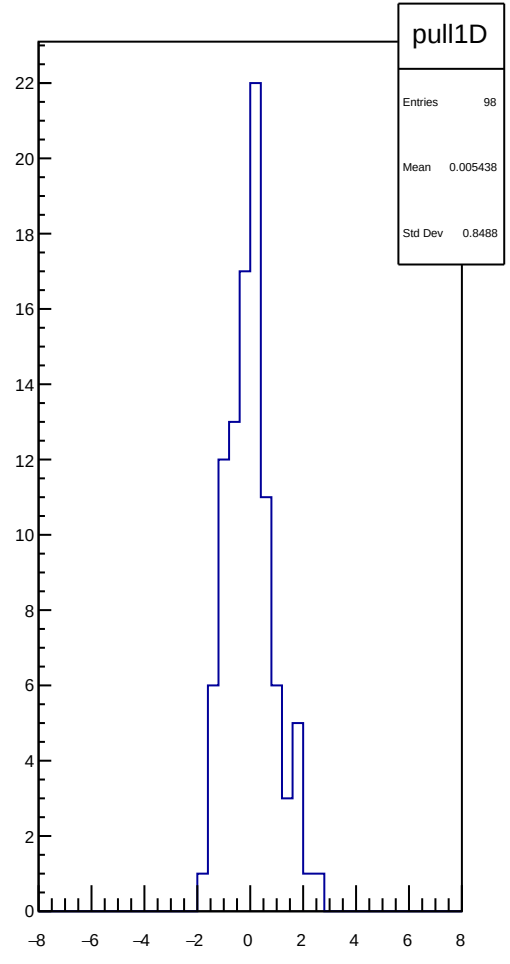

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 4011 / 97
p0 947.3 ± 0.6803
1050
1000
950
900
850

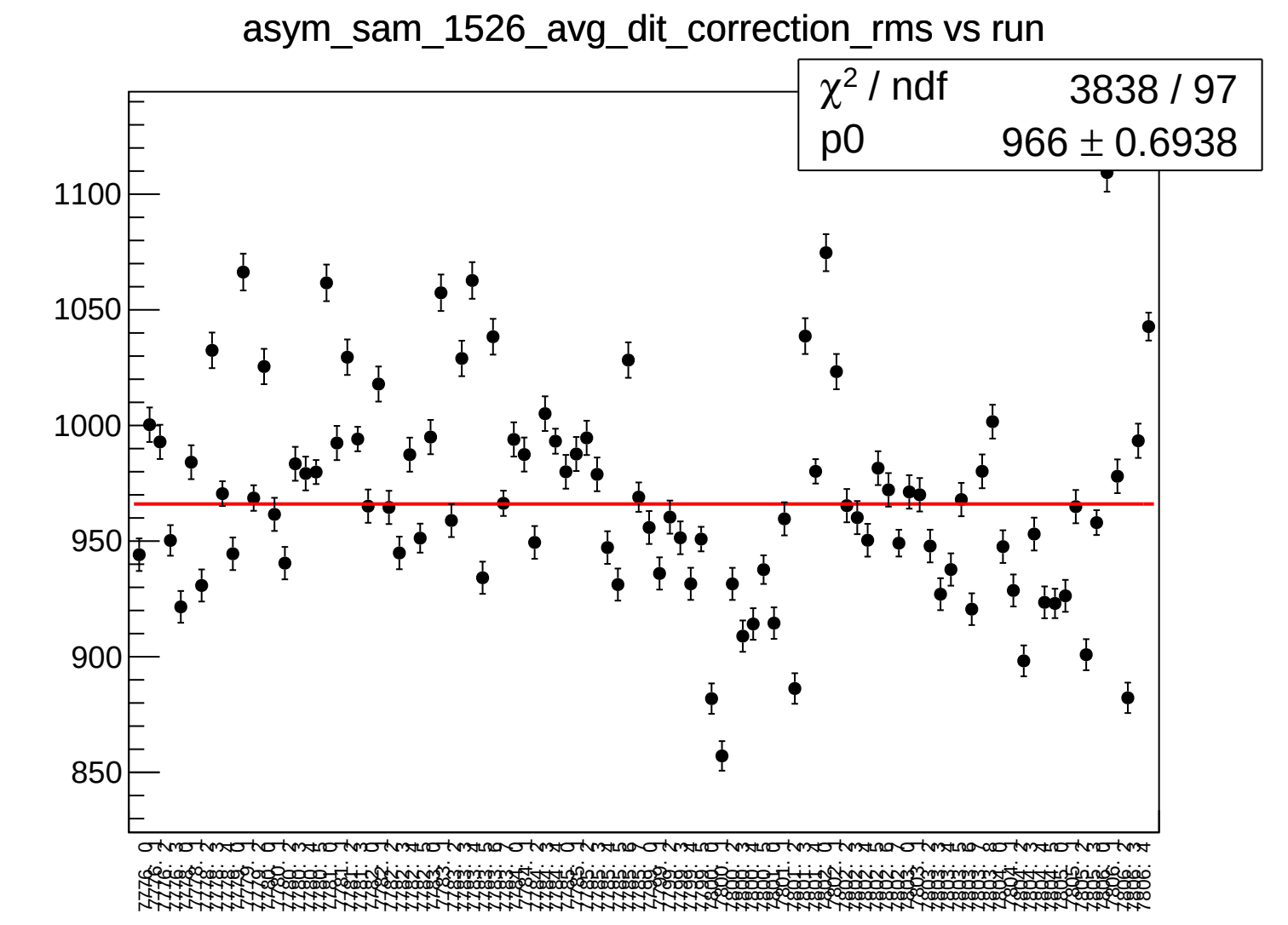

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 88.64 / 97
p0 65.78 ± 127.2
pull
Entries 98
Mean 91.43
Std Dev 72.08

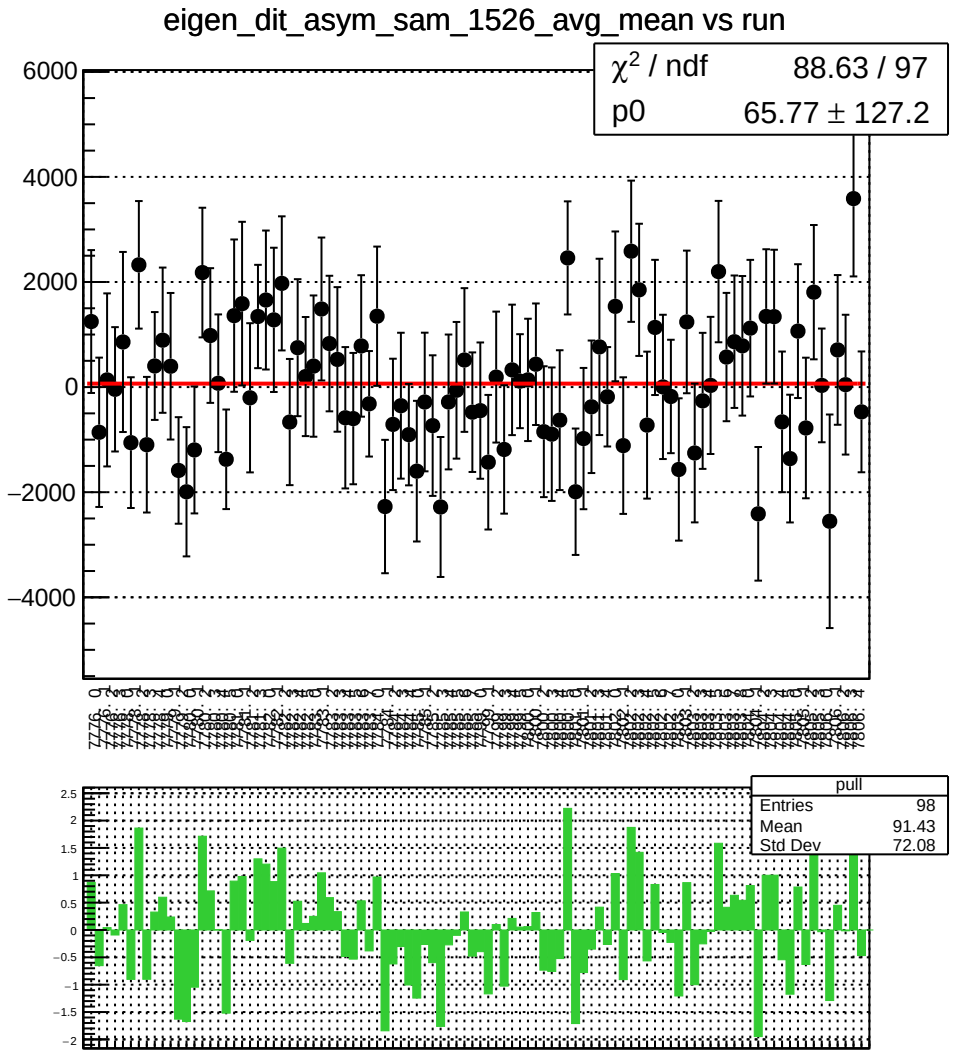

pull1D
Entries 98
Mean 0.01553
Std Dev 0.9509

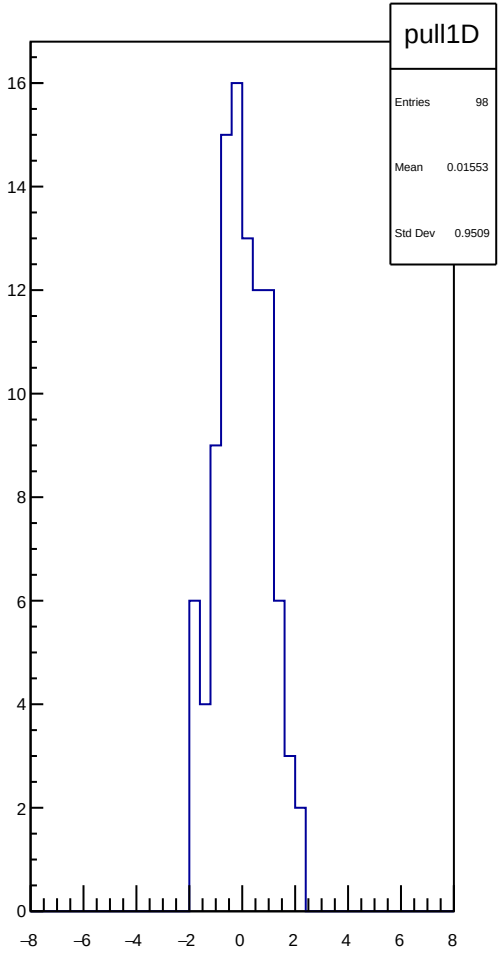

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.01e+04 / 97
p0 125 ± 0.08994
200
180
160
140
120

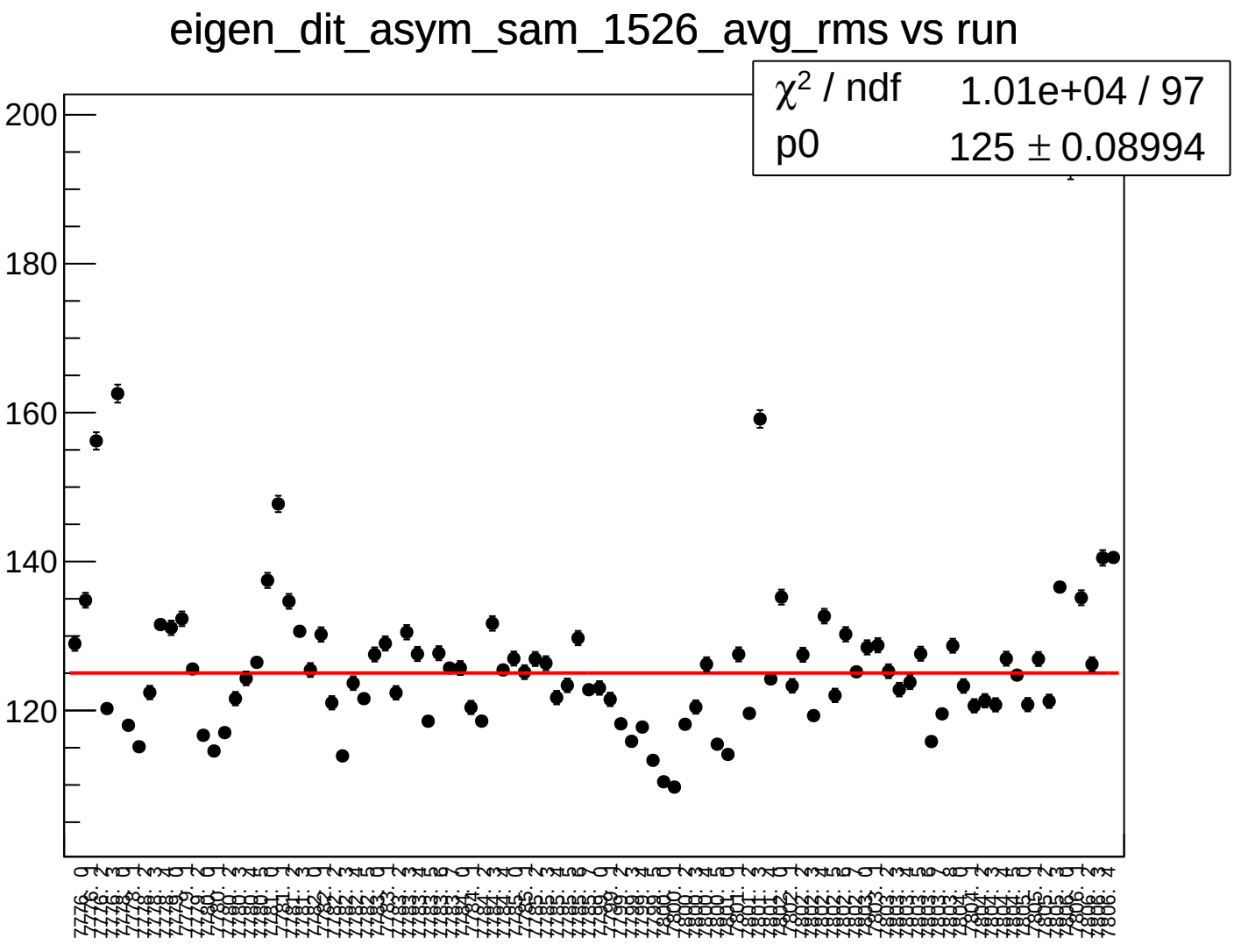

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 70.61 / 97
p0 −457.2 ± 981.1
pull
Entries 98
Mean −618.7
Std Dev 0

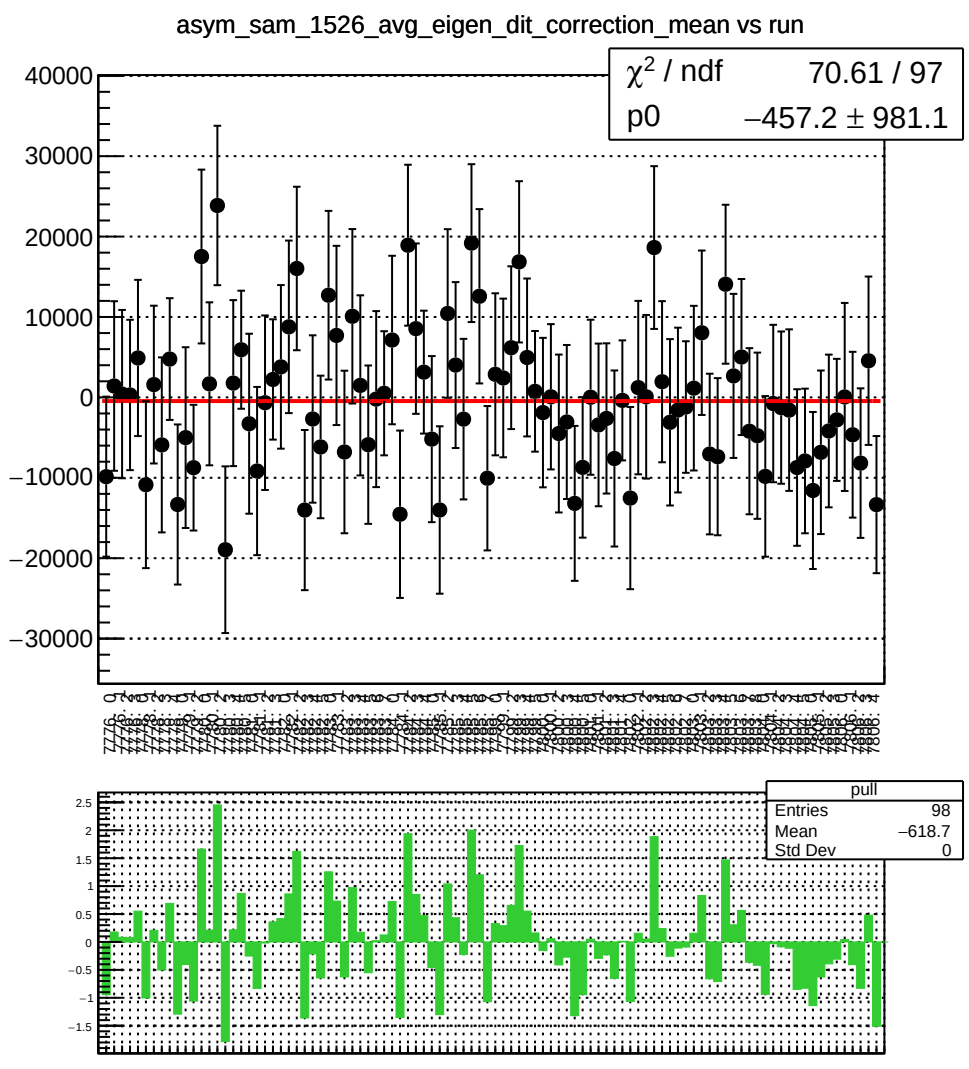

pull1D
Entries 98
Mean 0.005438
Std Dev 0.8488

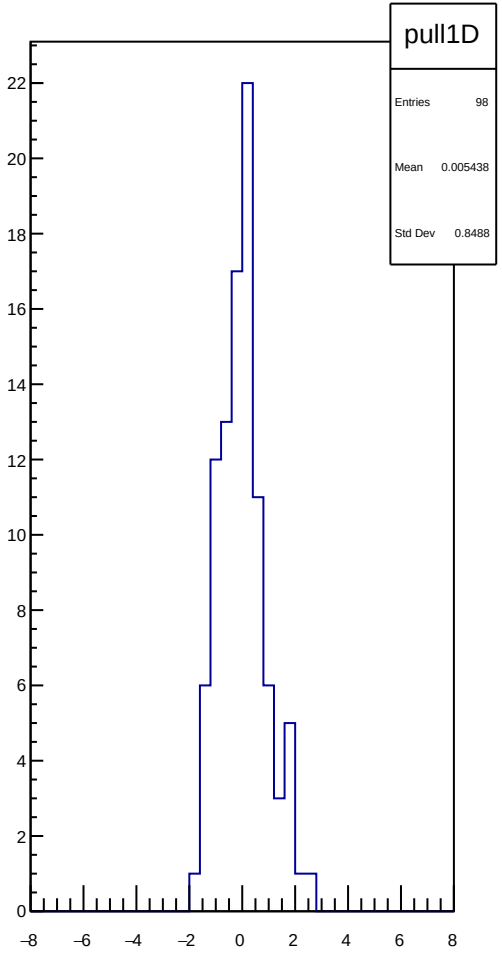

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 3838 / 97
p0 966 ± 0.6938
1100
1050
1000
950
900
850

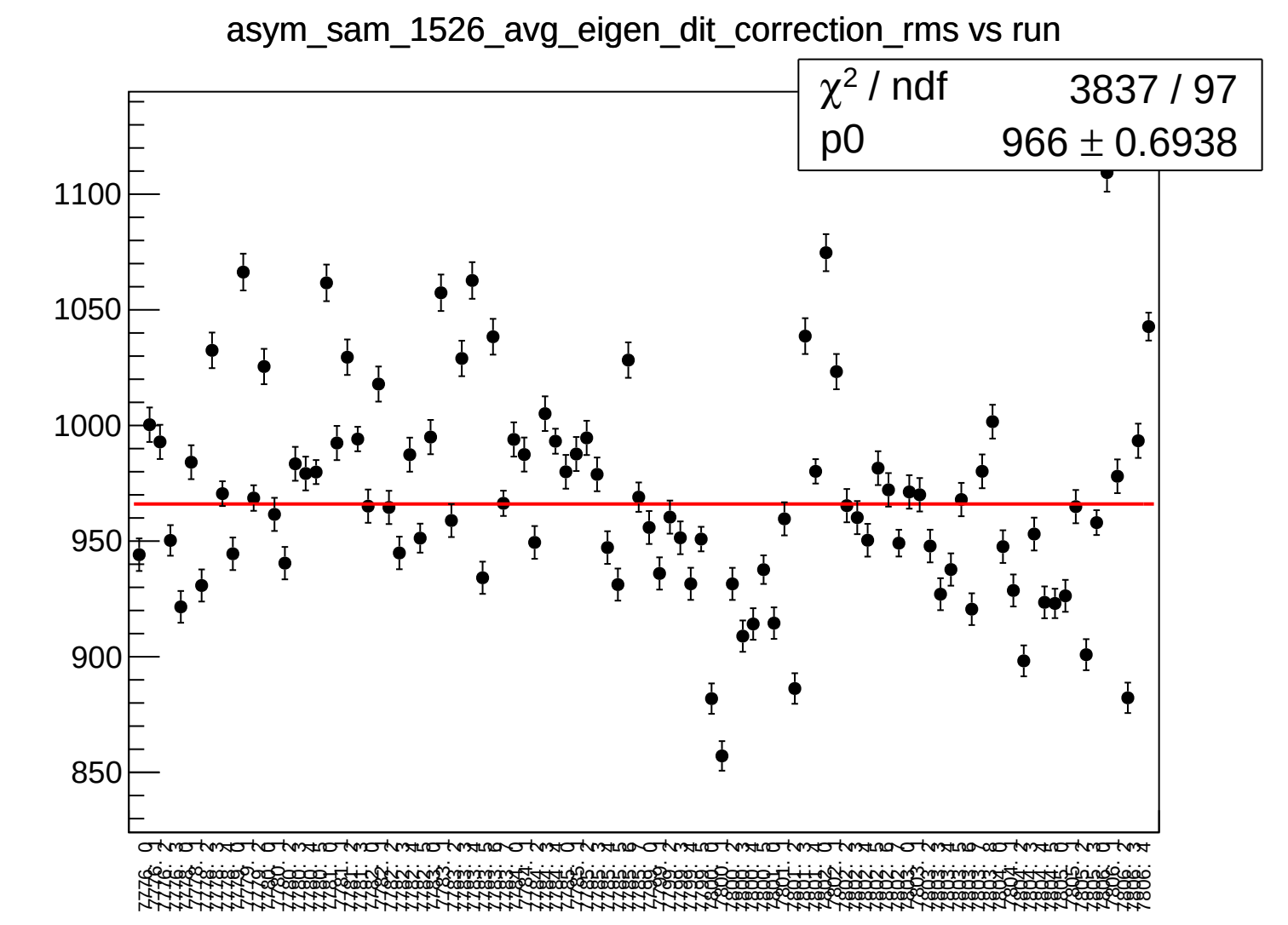

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 88.63 / 97
p0 65.77 ± 127.2
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 91.43
Std Dev 72.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

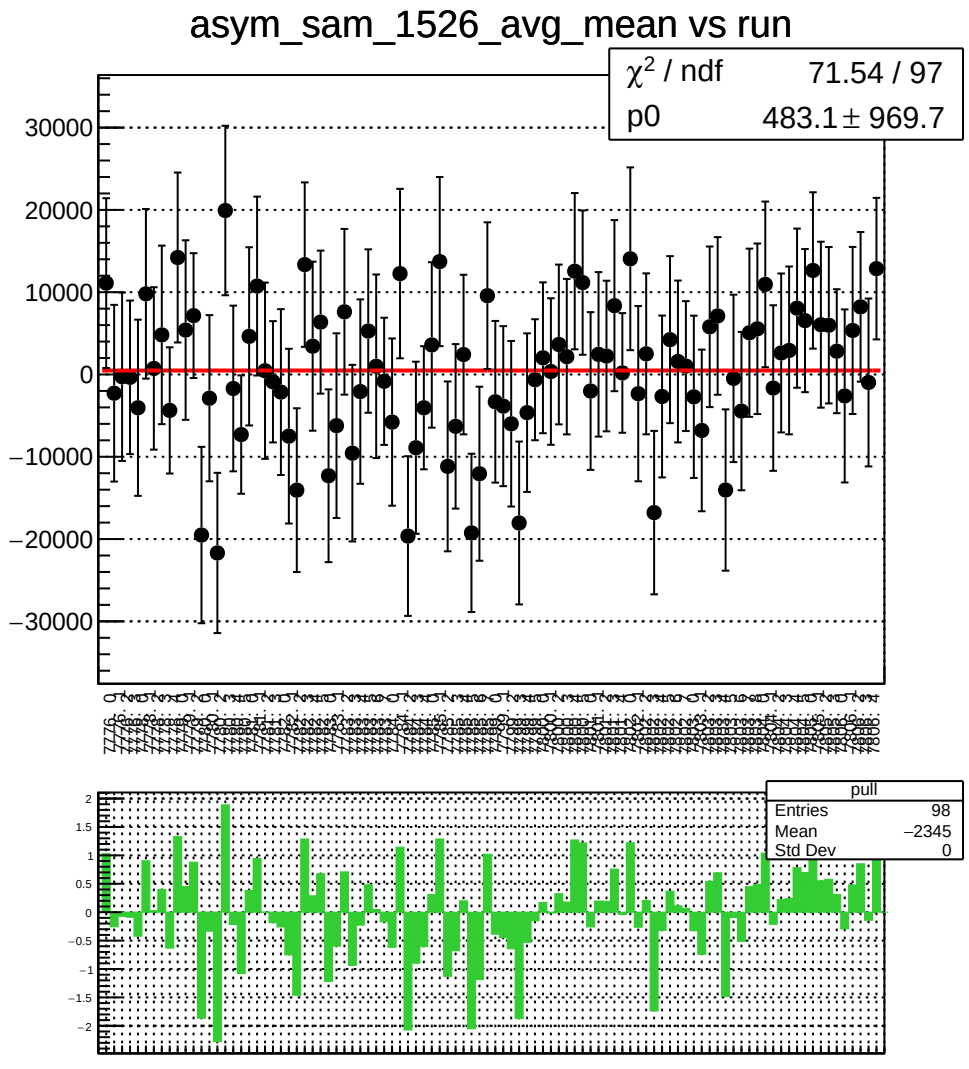

pull1D
Entries 98
Mean 0.01553
Std Dev 0.9509
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

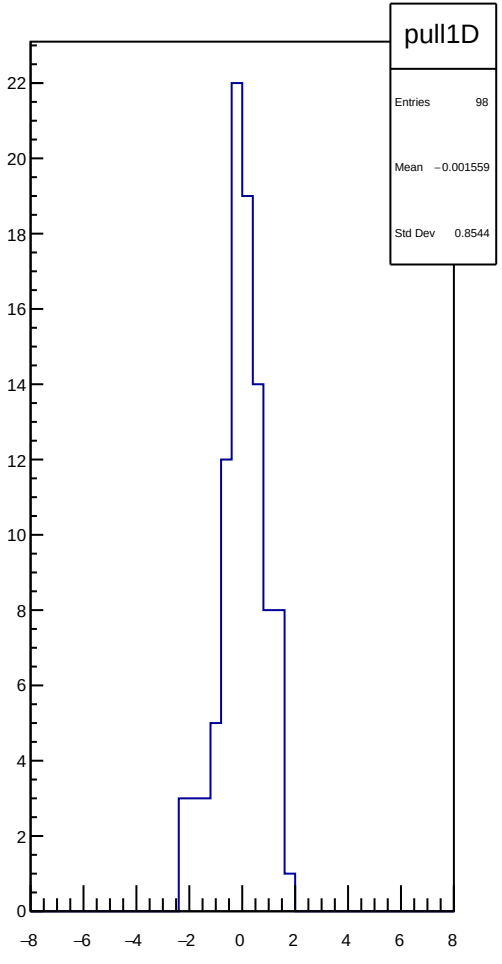

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.01e+04 / 97
p0 125 ± 0.08994
200
180
160
140
120

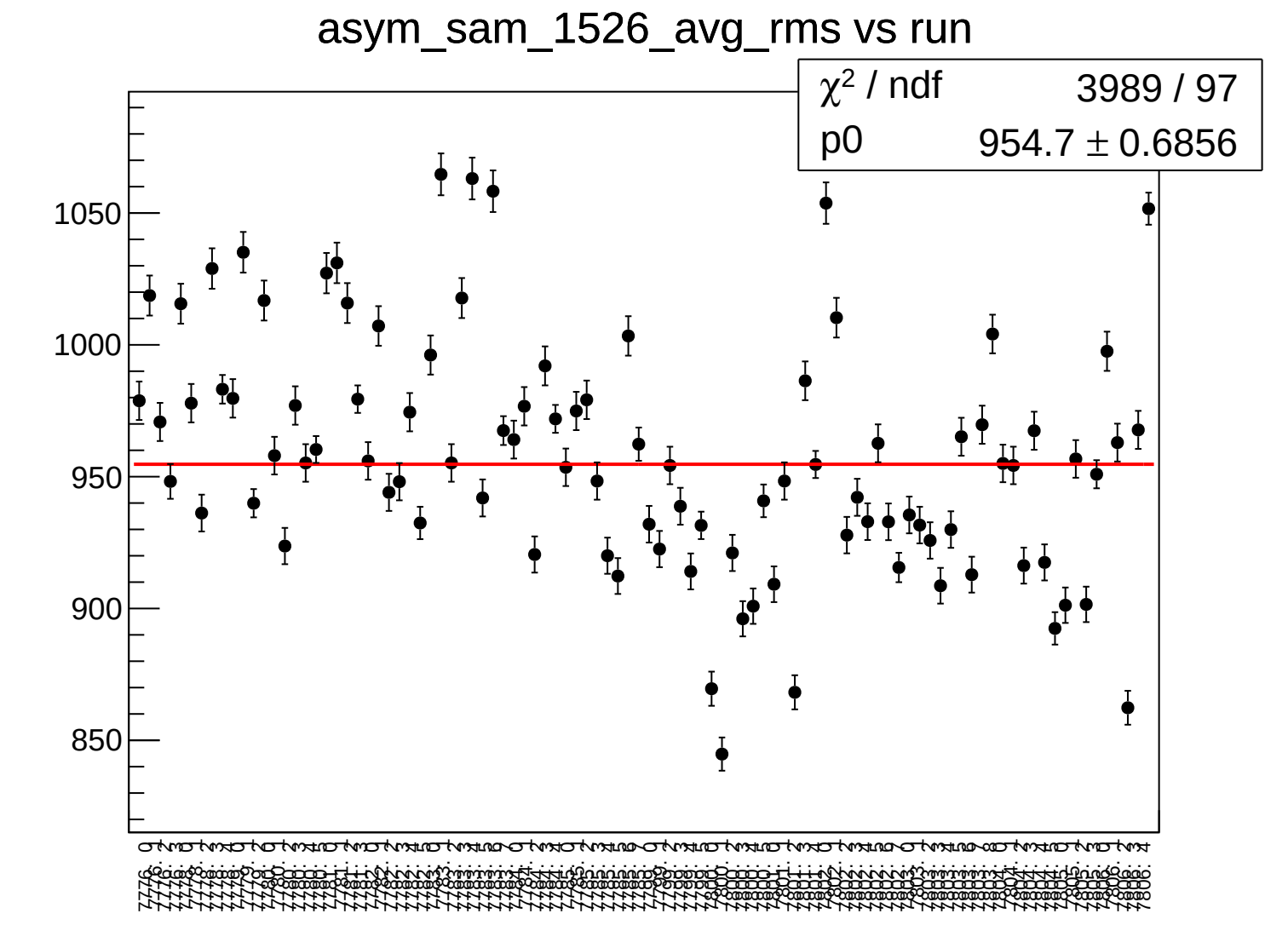

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.61 / 97
p0 −457.2 ± 981.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −618.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

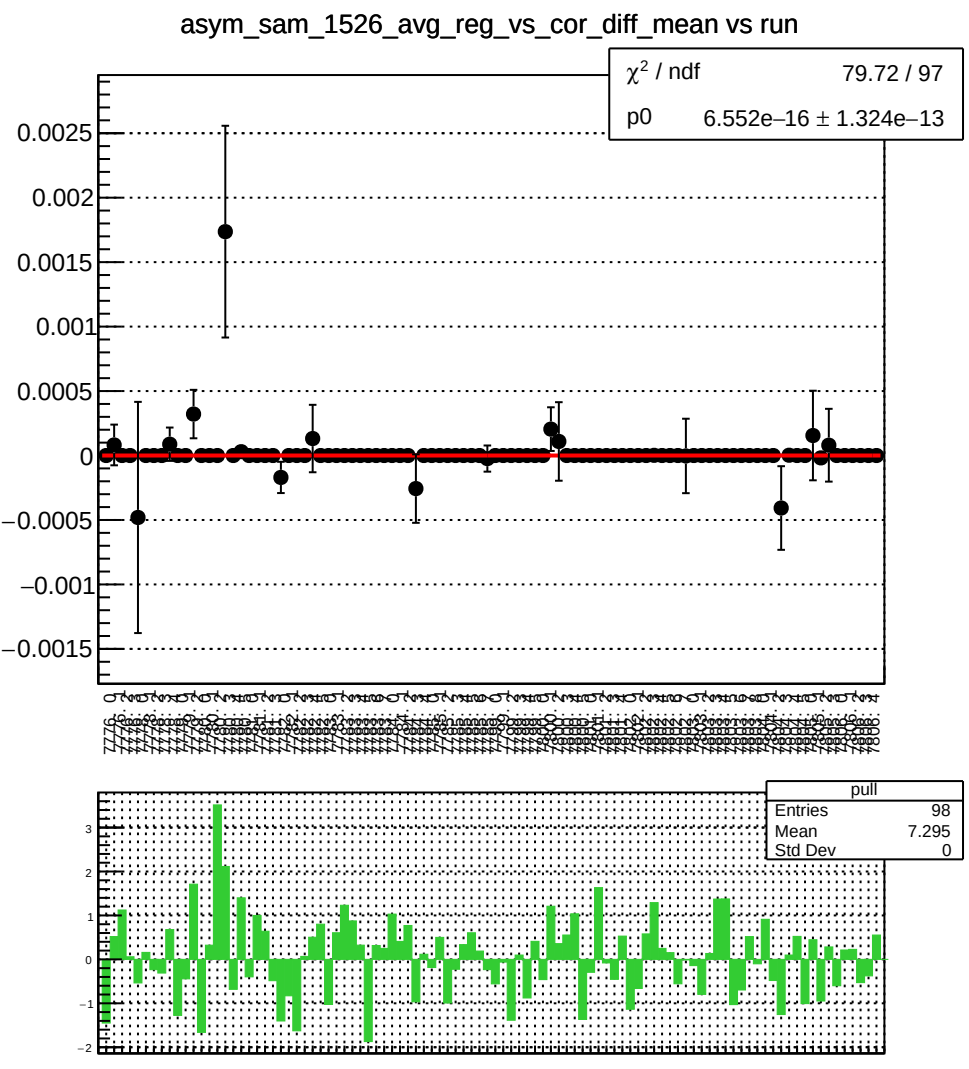

pull1D
Entries 98
Mean 0.005438
Std Dev 0.8488
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

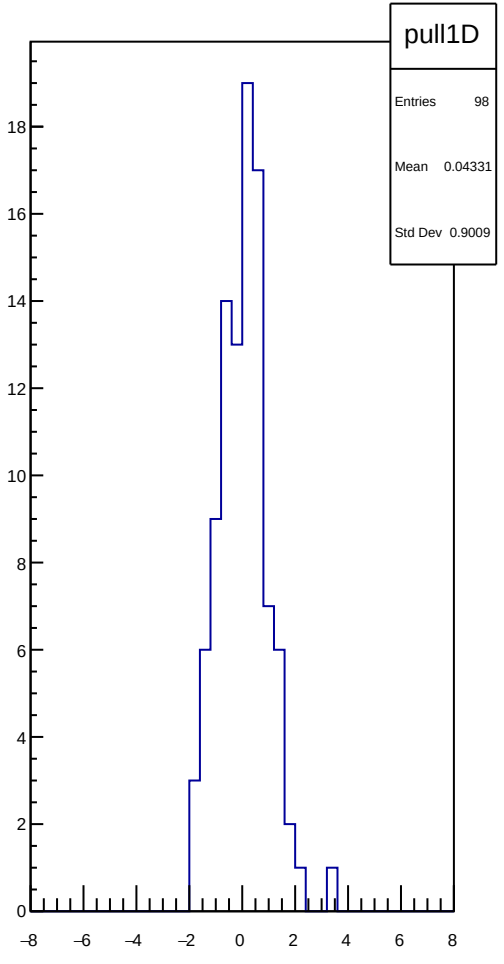

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 3837 / 97
p0 966 ± 0.6938
1100
1050
1000
950
900
850

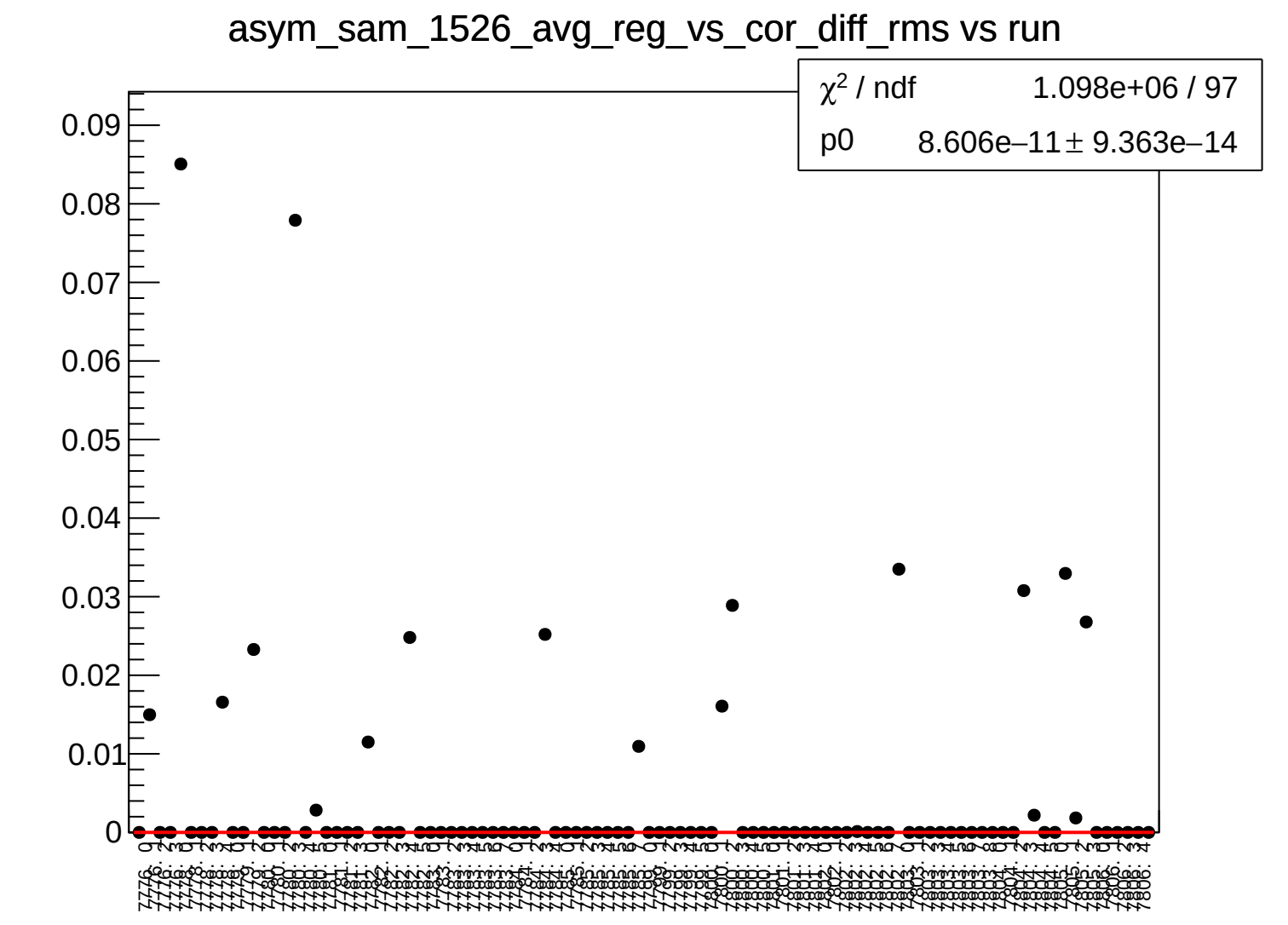

asym_sam_1526_avg_mean vs run
χ² / ndf 71.54 / 97
p0 483.1 ± 969.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −2345
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

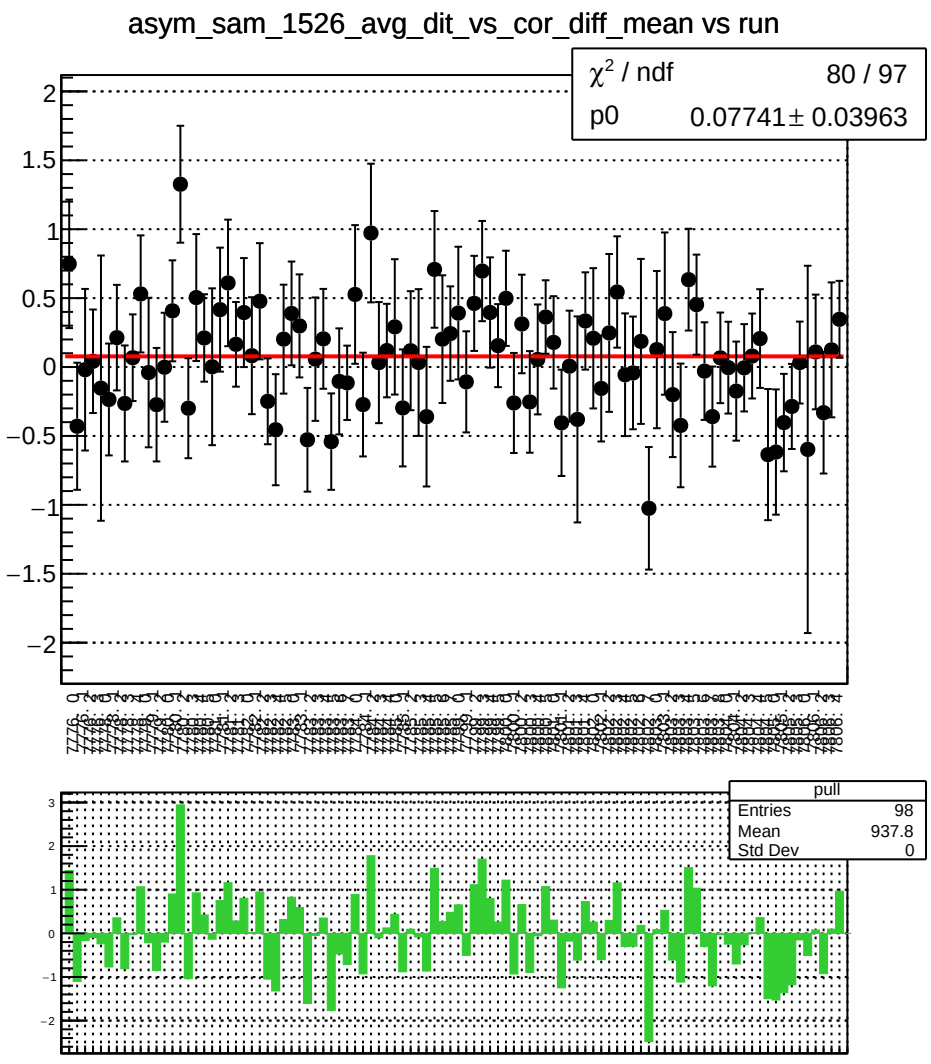

pull1D
Entries 98
Mean −0.001559
Std Dev 0.8544
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

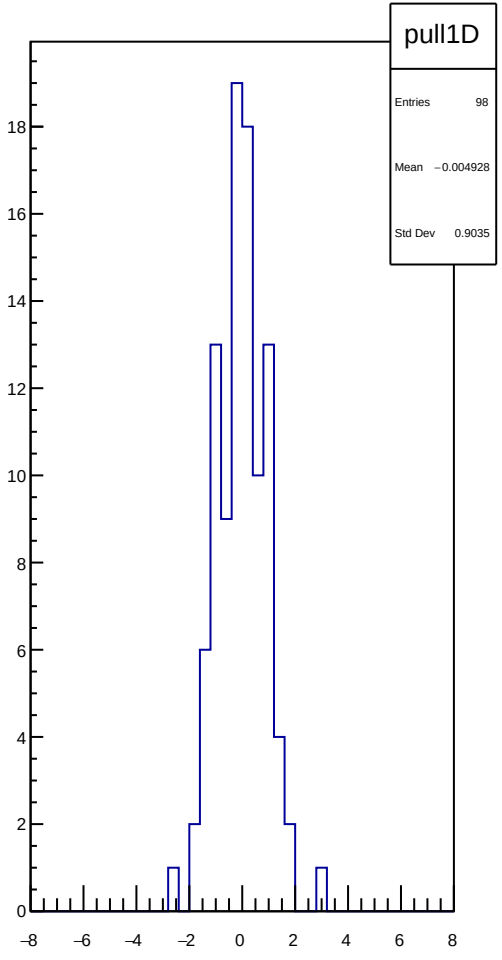

asym_sam_1526_avg_rms vs run
χ² / ndf 3989 / 97
p0 954.7 ± 0.6856
1050
1000
950
900
850

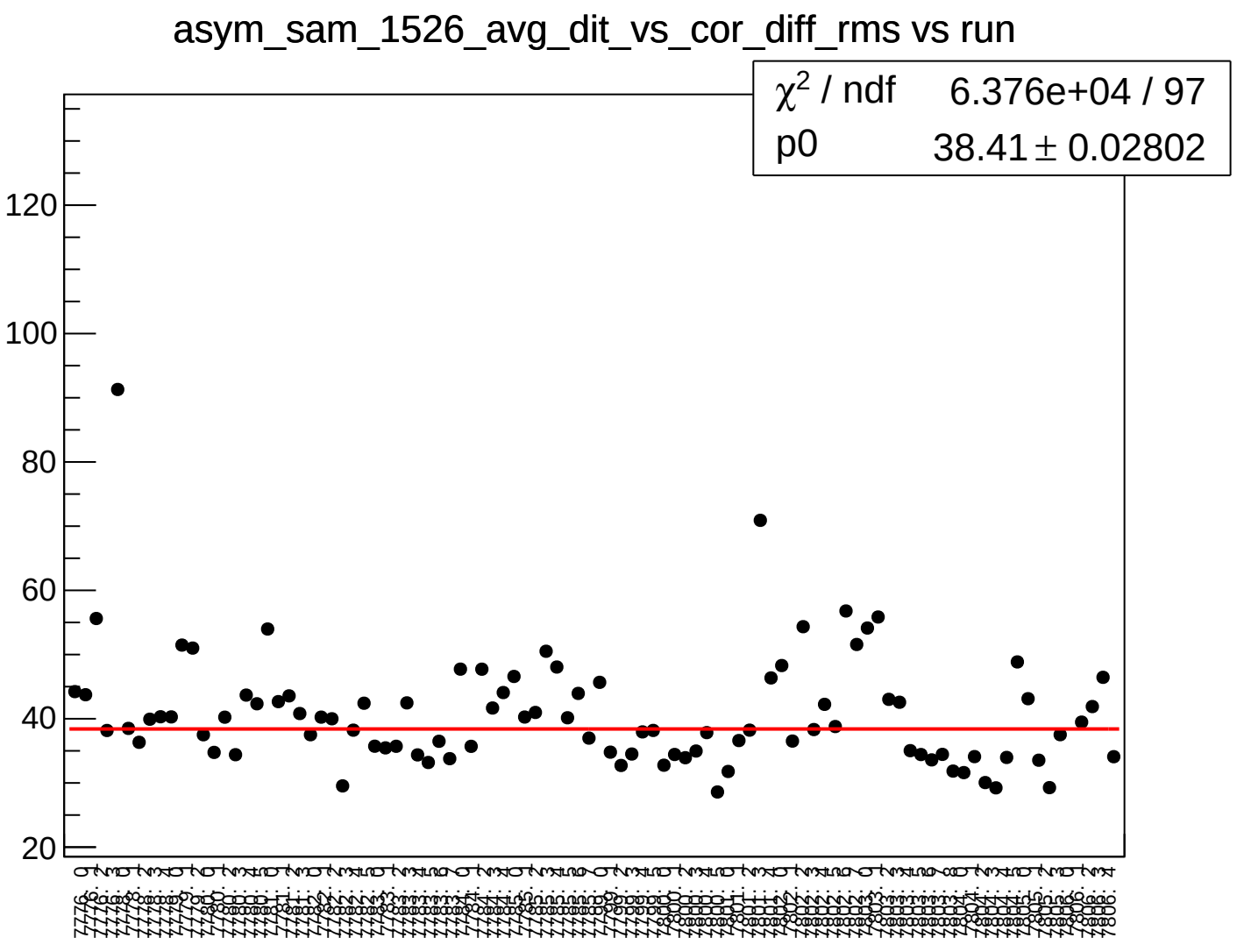

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.72 / 97
p0 6.552e−16 ± 1.324e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 98
Mean 7.295
Std Dev 0
3
2
1
0
−1
−2

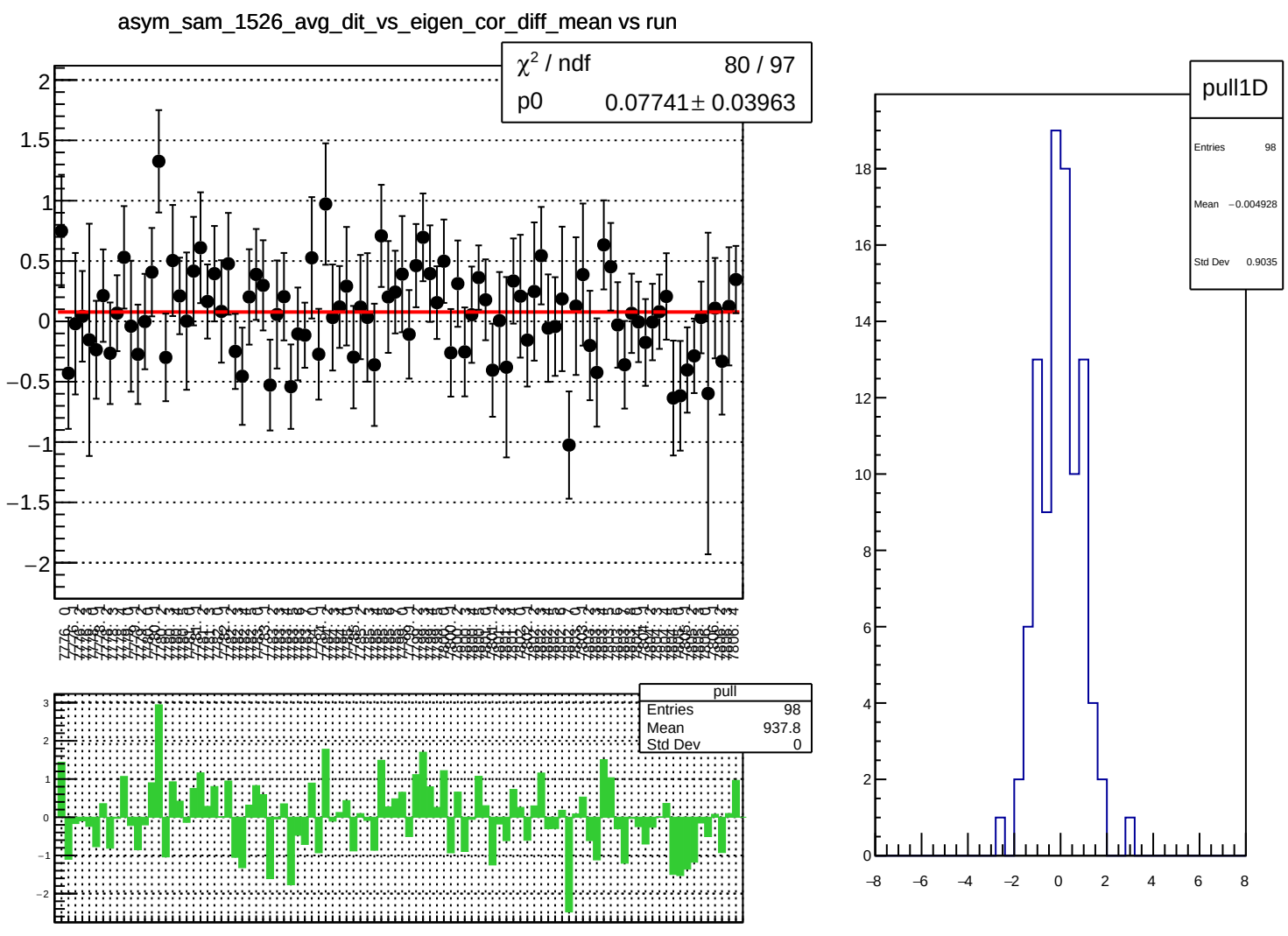

pull1D
Entries 98
Mean 0.04331
Std Dev 0.9009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

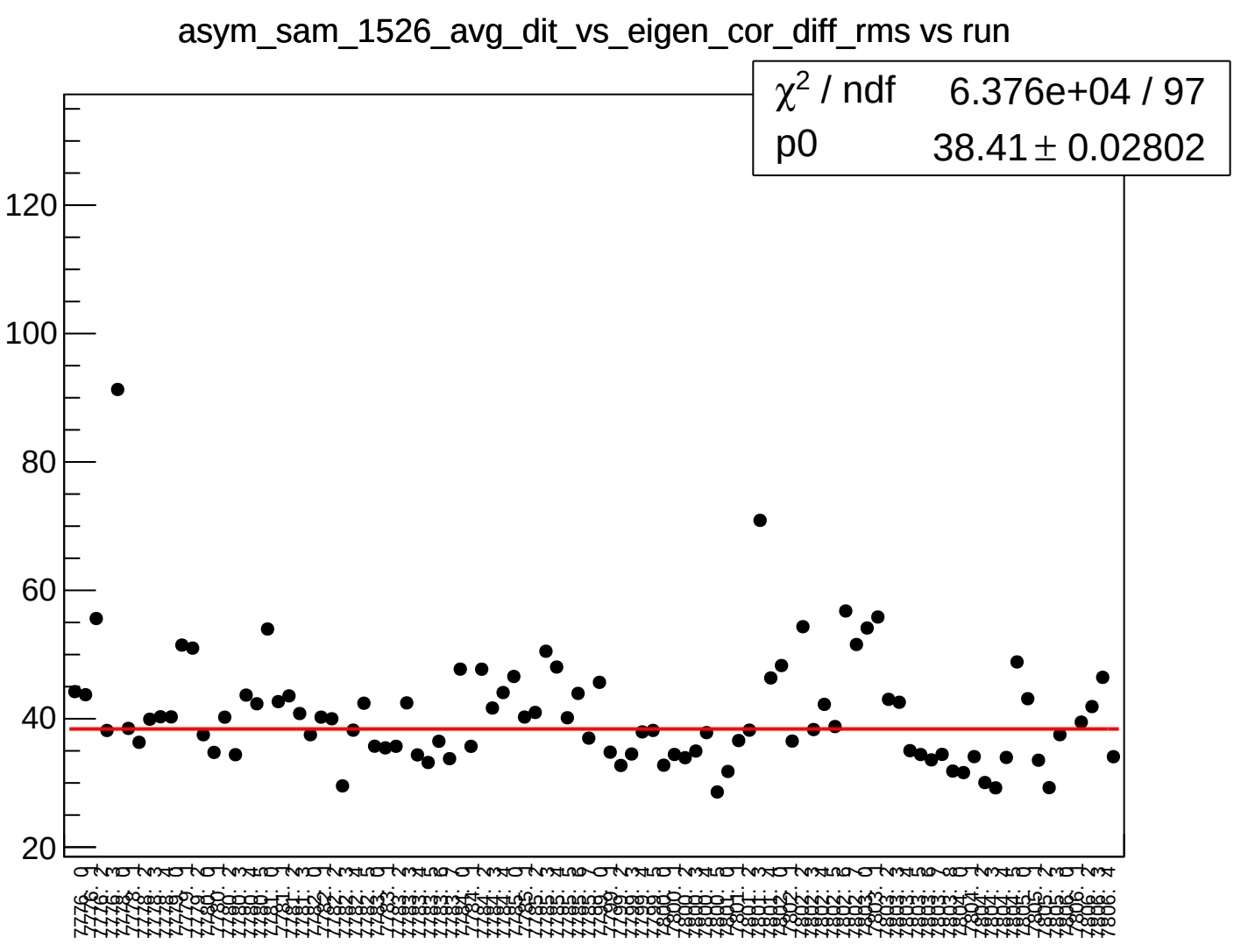

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.098e+06 / 97
p0 8.606e−11 ± 9.363e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

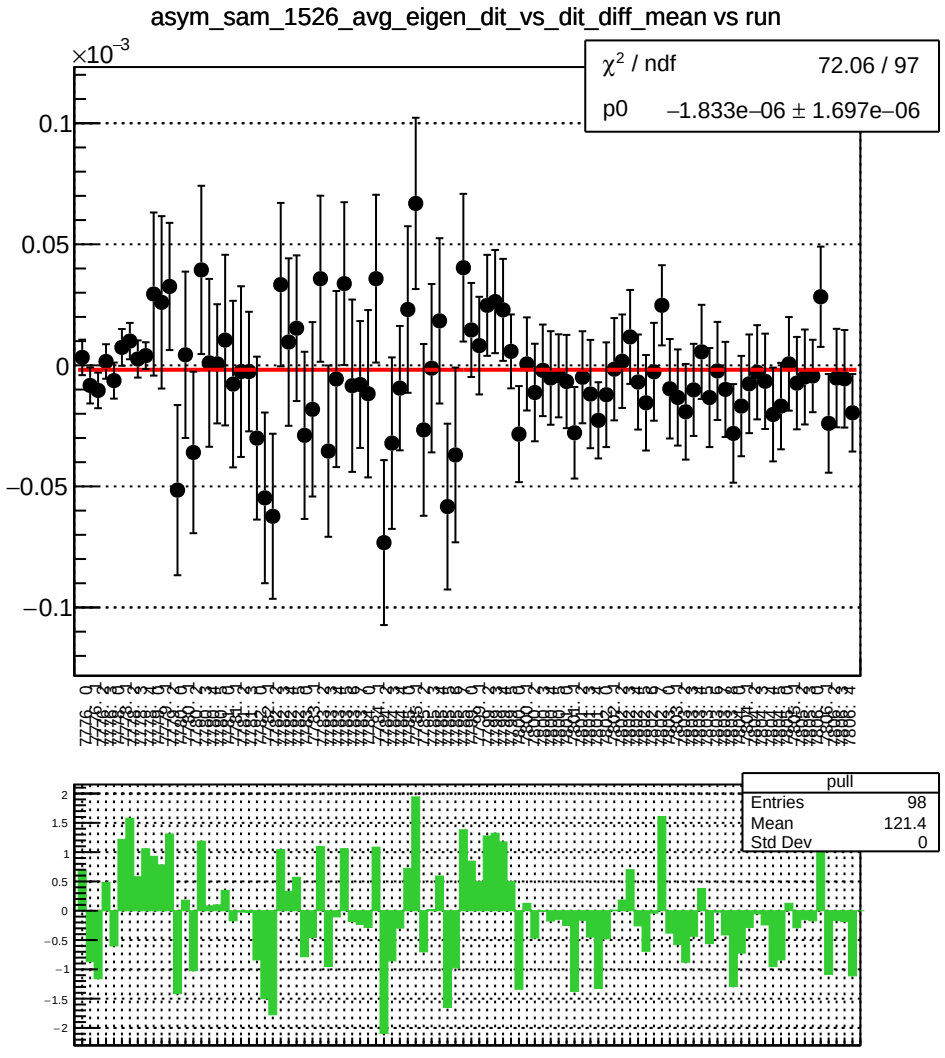

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80 / 97
p0 0.07741 ± 0.03963
pull
Entries 98
Mean 937.8
Std Dev 0

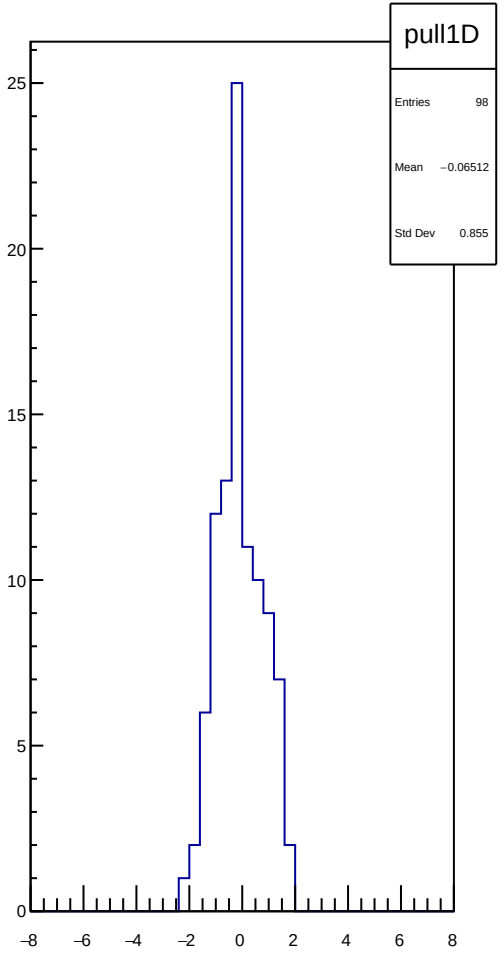

pull1D
Entries 98
Mean −0.004928
Std Dev 0.9035

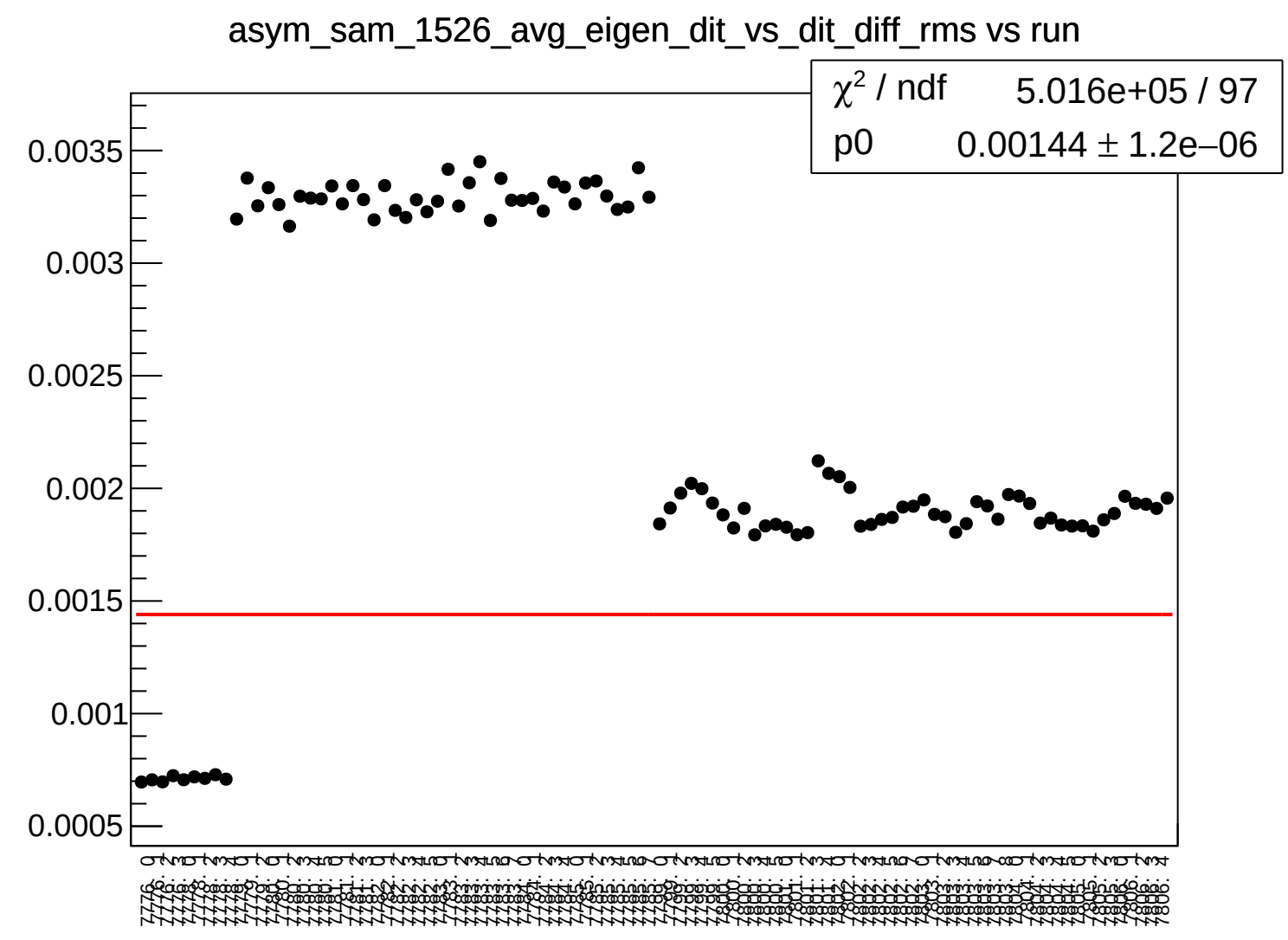

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.376e+04 / 97
p0 38.41 ± 0.02802
120
100
80
60
40
20

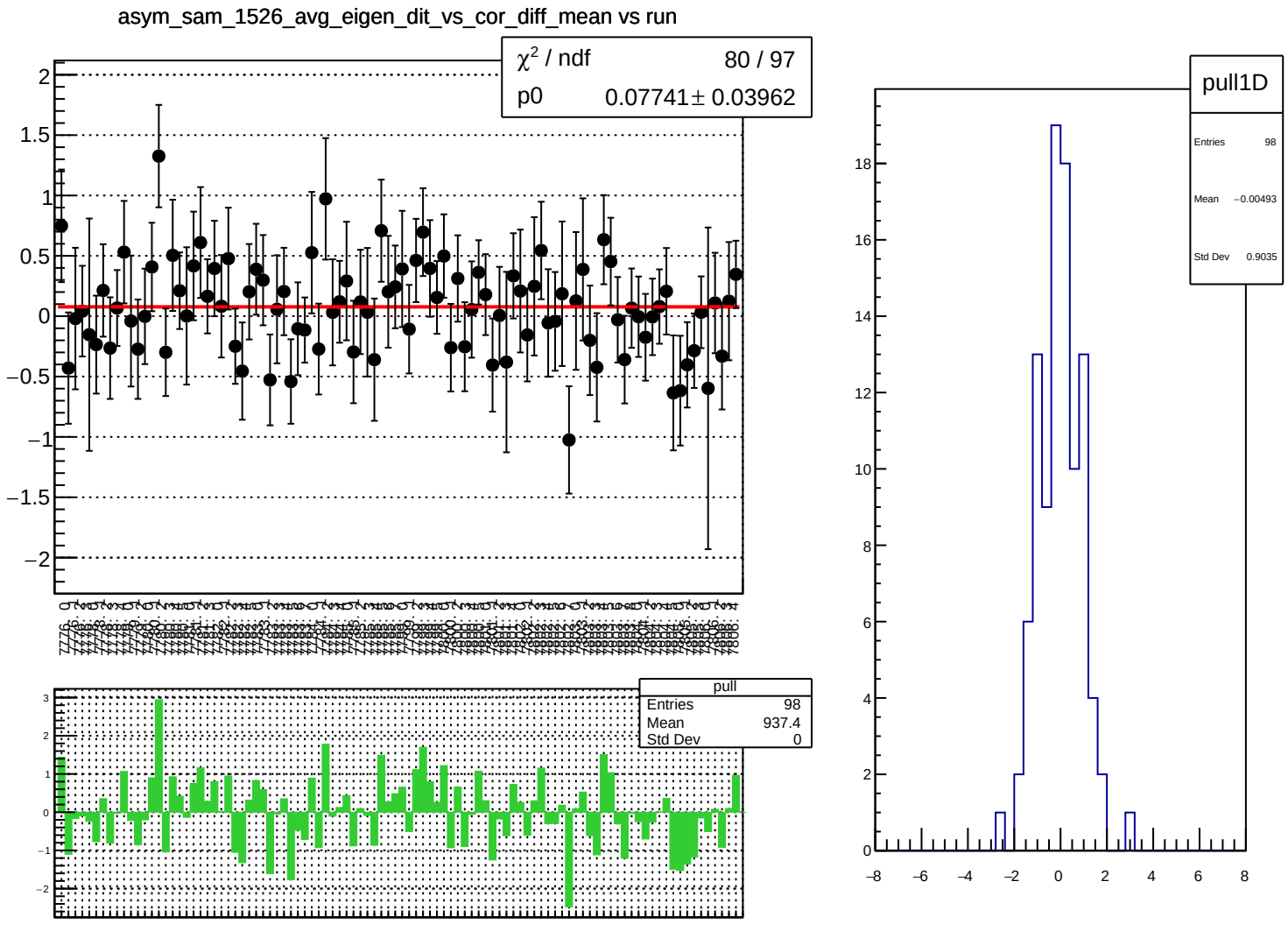

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80 / 97
p0 0.07741 ± 0.03963
pull
Entries 98
Mean 937.8
Std Dev 0
pull1D
Entries 98
Mean −0.004928
Std Dev 0.9035

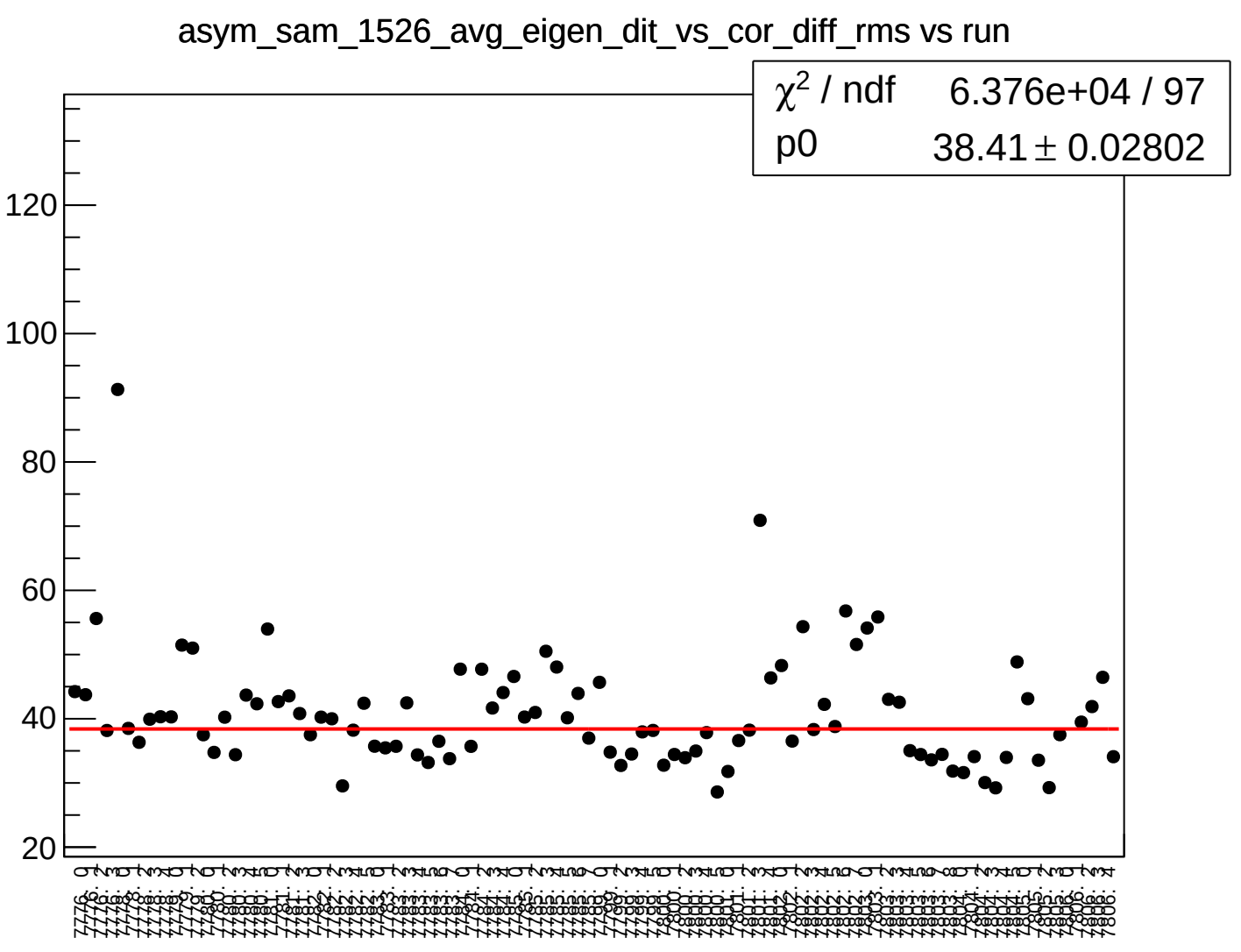

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.376e+04 / 97
p0 38.41 ± 0.02802
120
100
80
60
40
20

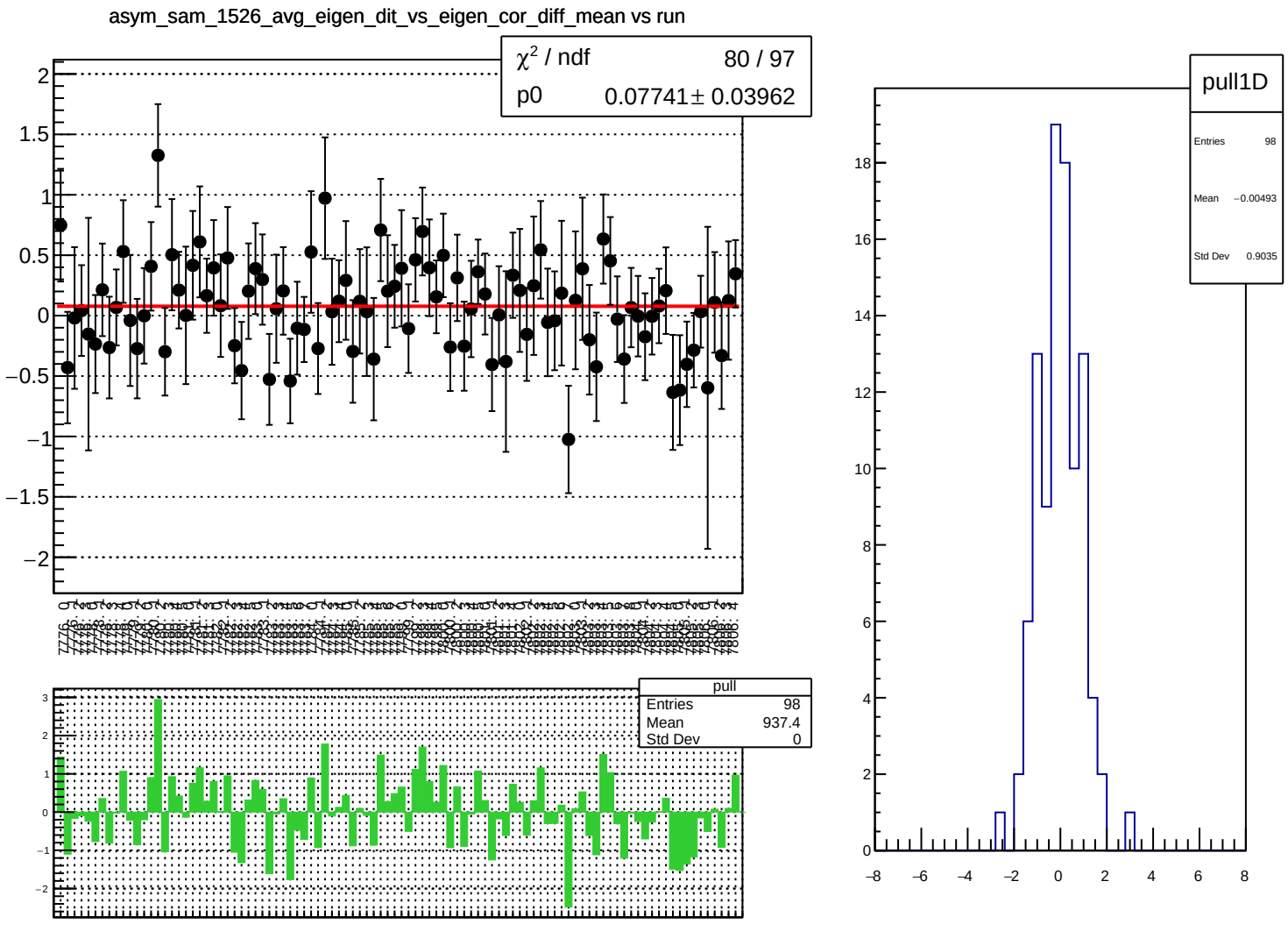

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 72.06 / 97
p0 −1.833e−06 ± 1.697e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 98
Mean 121.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

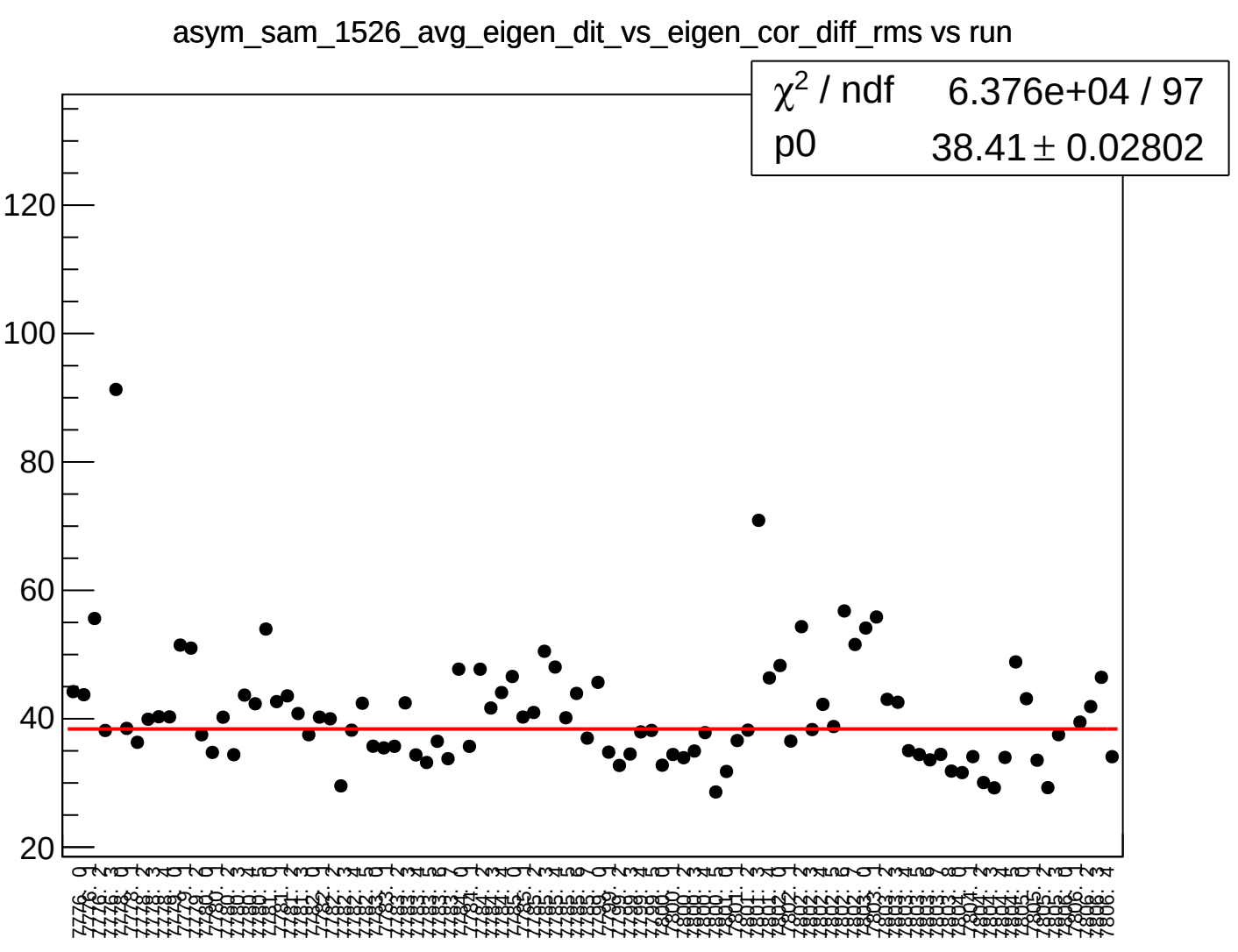

pull1D
Entries 98
Mean −0.06512
Std Dev 0.855
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

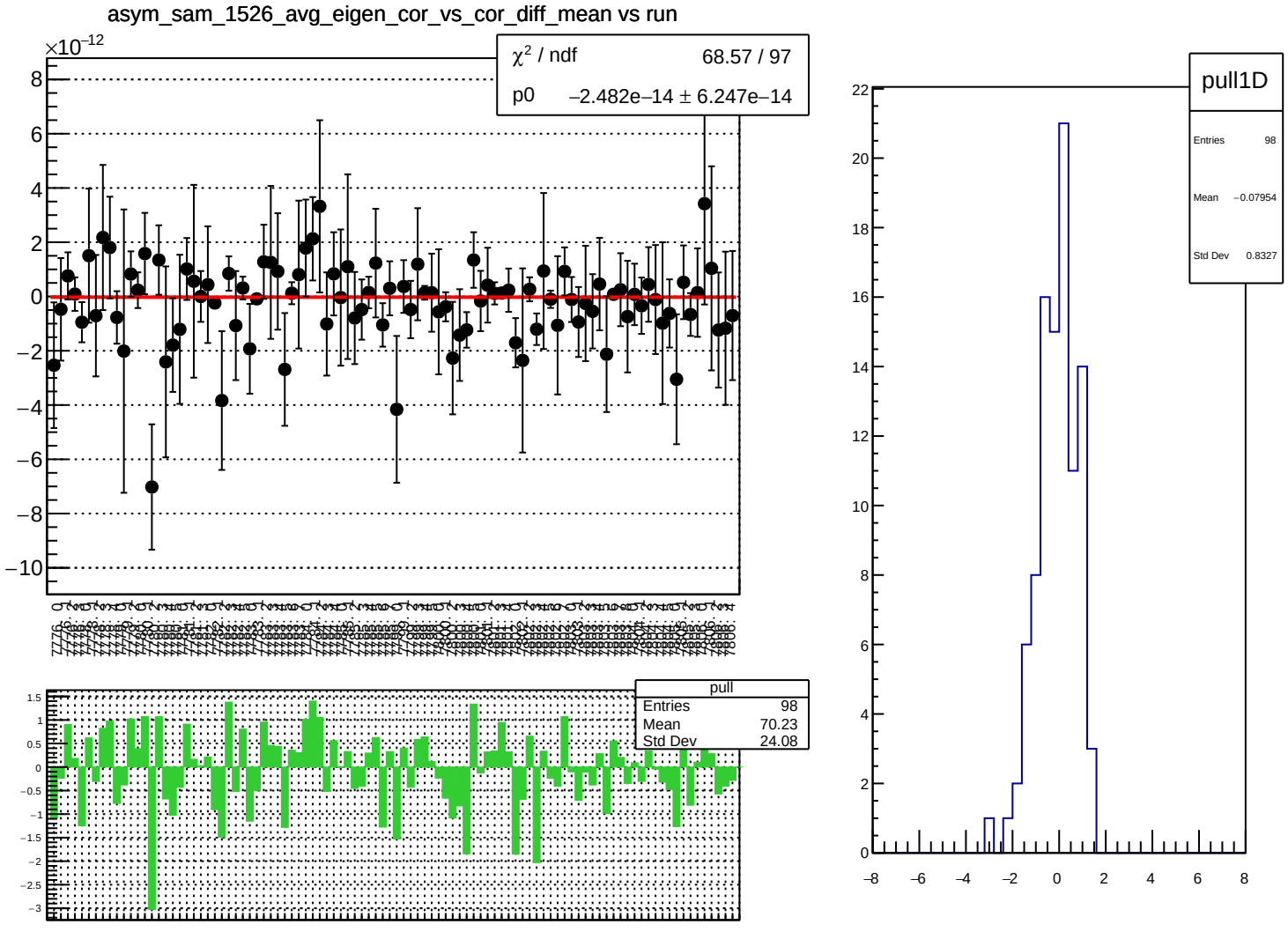

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.016e+05 / 97
p0 0.00144 ± 1.2e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

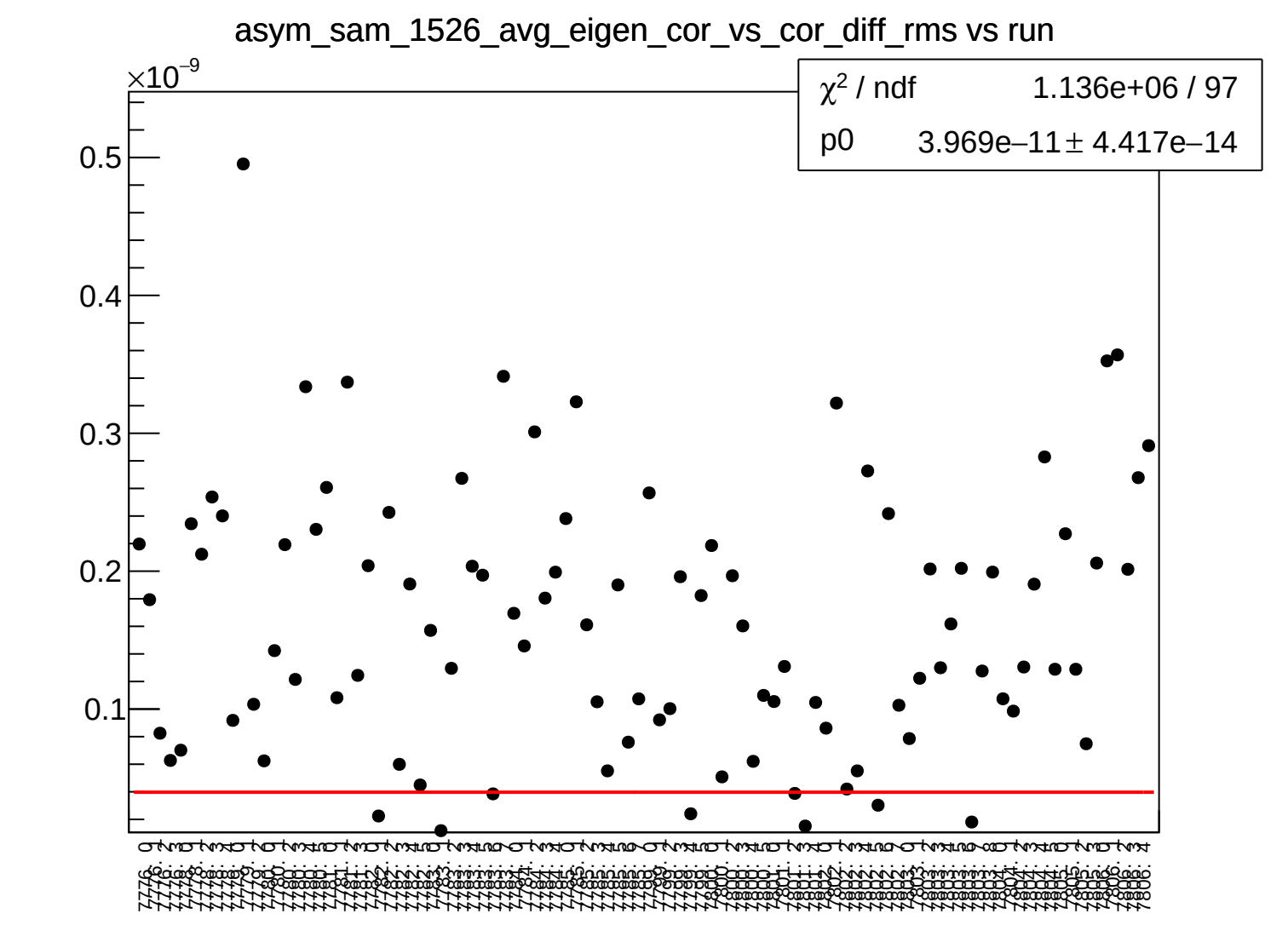

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80 / 97
p0 0.07741 ± 0.03962
pull
Entries 98
Mean 937.4
Std Dev 0
pull1D
Entries 98
Mean −0.00493
Std Dev 0.9035

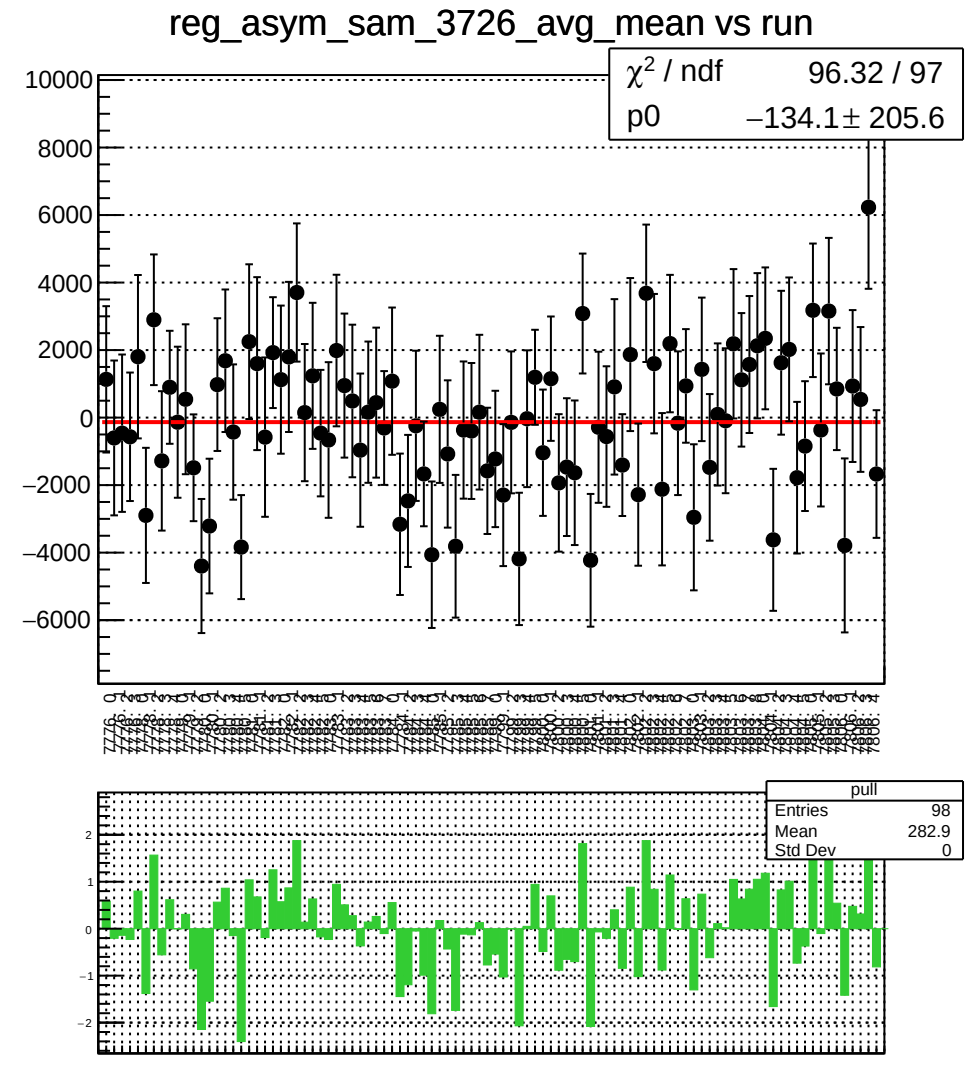

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.376e+04 / 97
p0 38.41 ± 0.02802
120
100
80
60
40
20

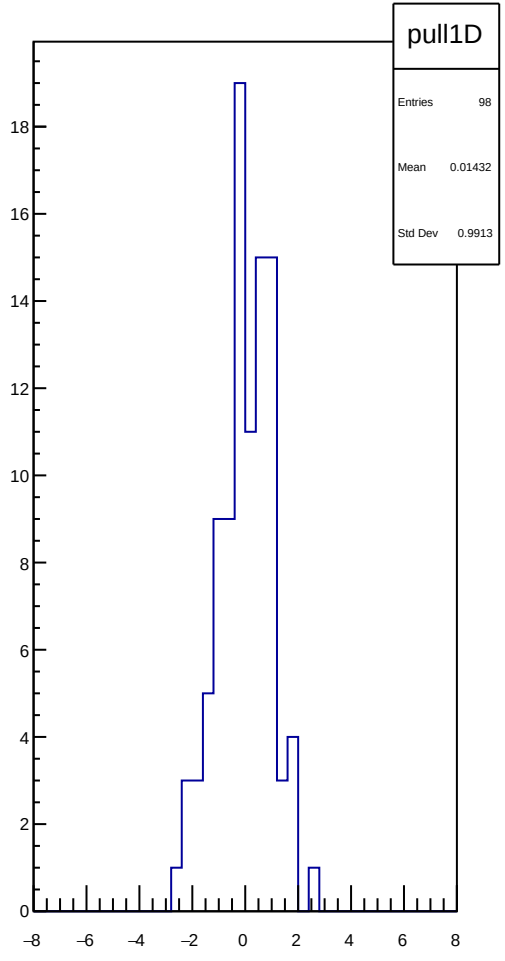

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80 / 97
p0 0.07741 ± 0.03962
pull
Entries 98
Mean 937.4
Std Dev 0
pull1D
Entries 98
Mean −0.00493
Std Dev 0.9035

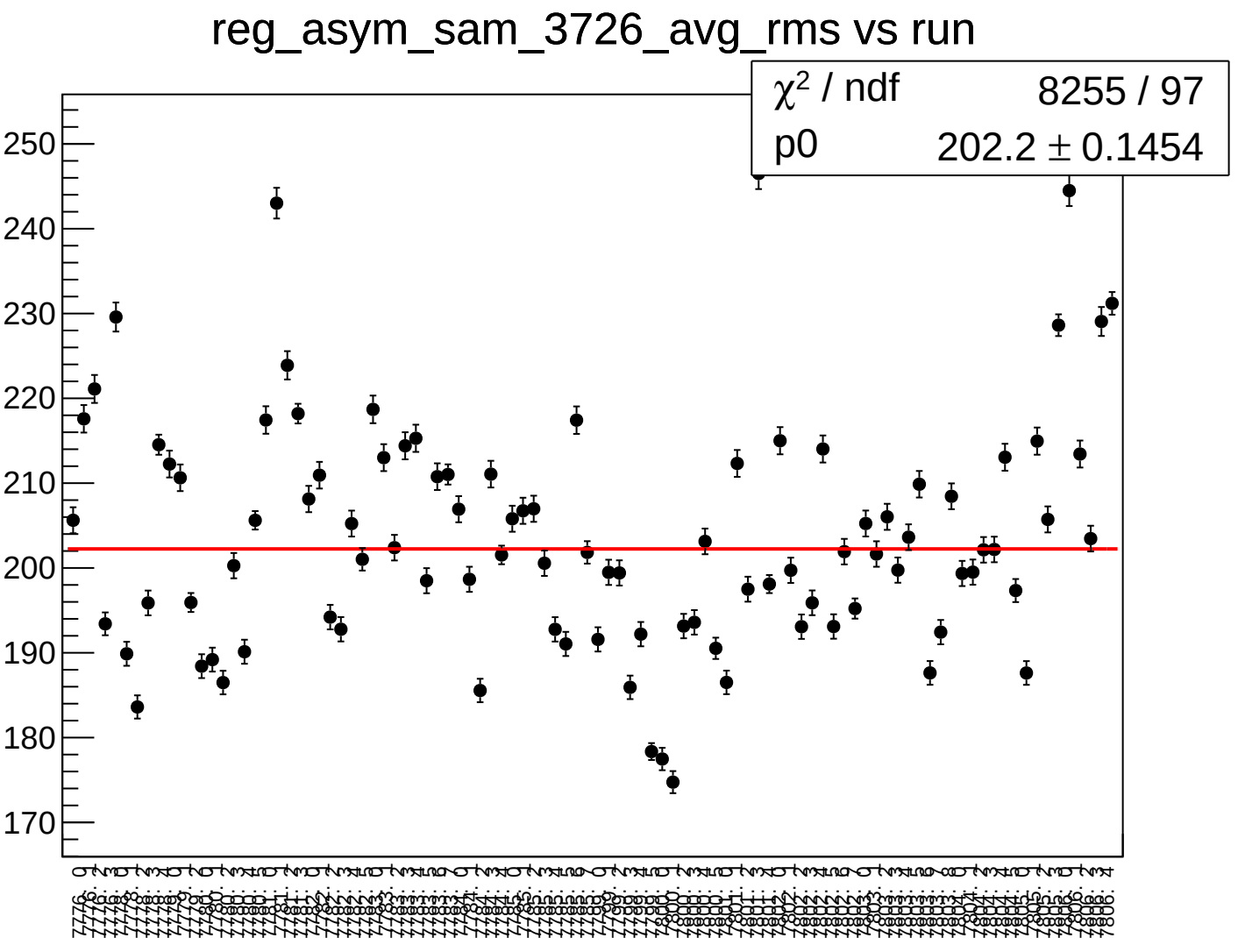

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.376e+04 / 97
p0 38.41 ± 0.02802
120
100
80
60
40
20

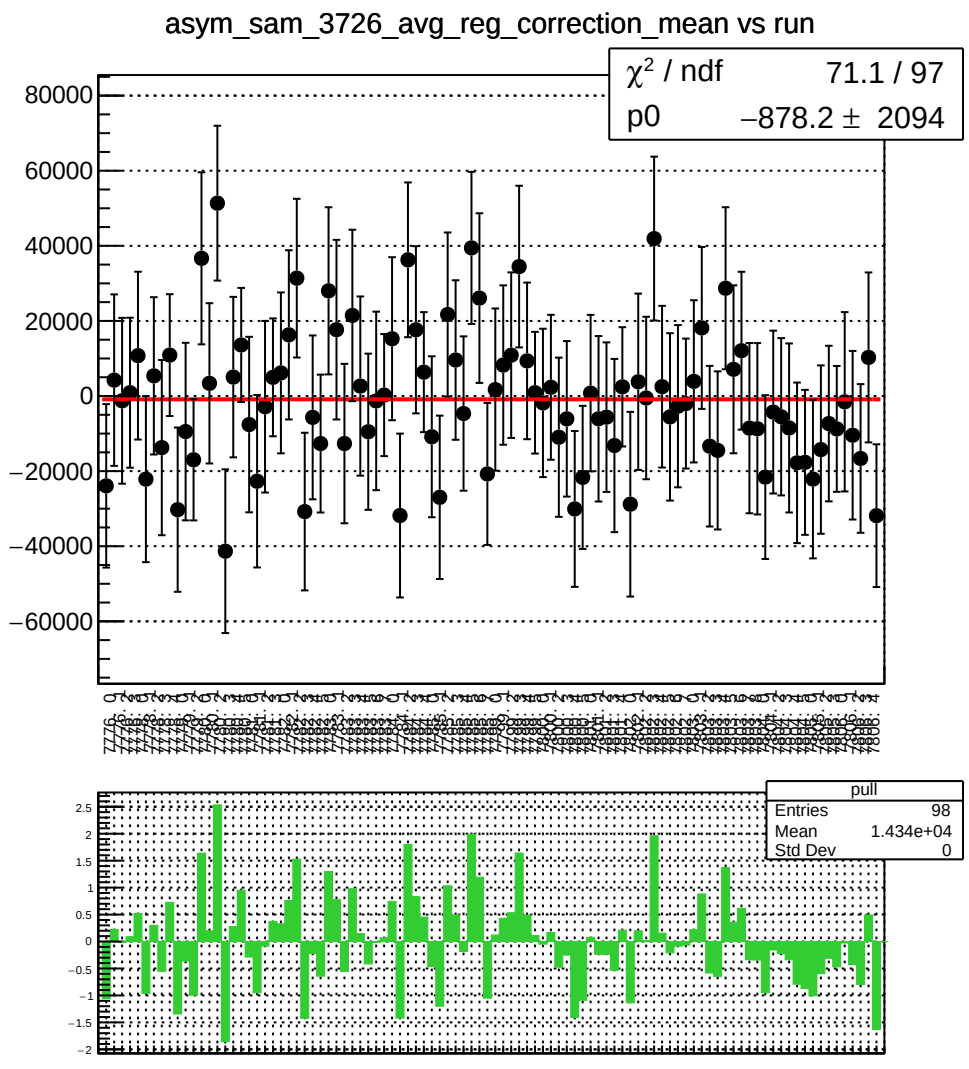

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 68.57 / 97
p0 −2.482e−14 ± 6.247e−14
pull
Entries 98
Mean 70.23
Std Dev 24.08
pull1D
Entries 98
Mean −0.07954
Std Dev 0.8327

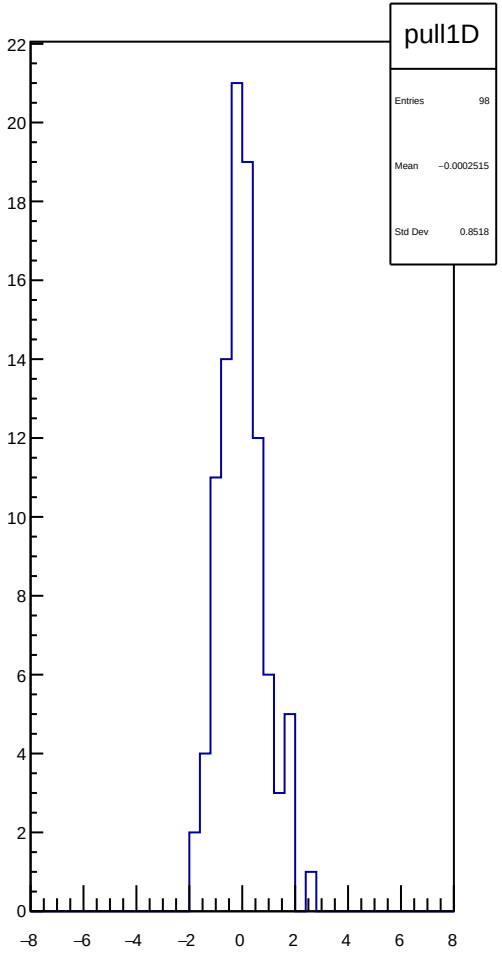

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.136e+06 / 97
p0 3.969e−11 ± 4.417e−14
0.5
0.4
0.3
0.2
0.1

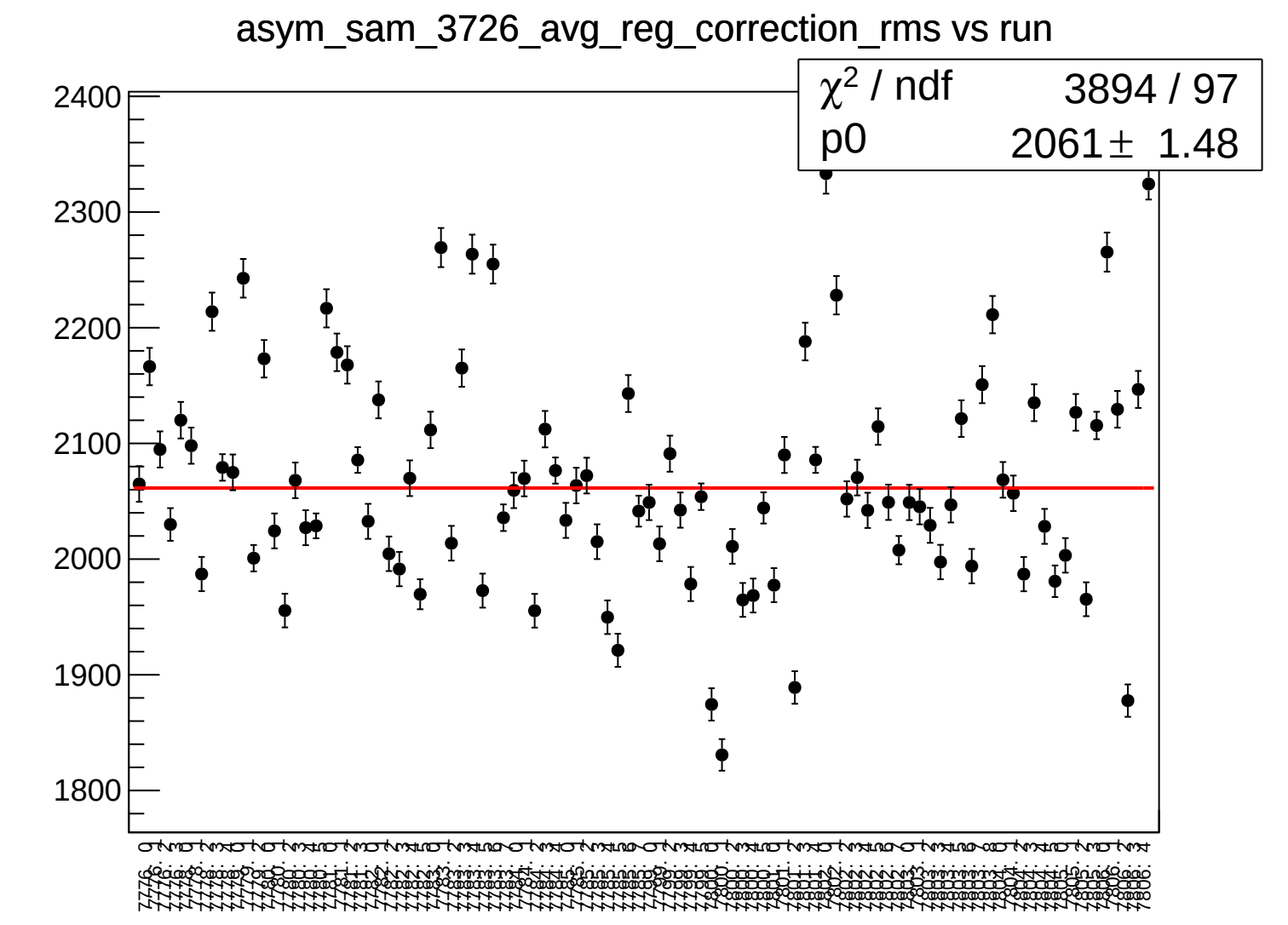

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 96.32 / 97
p0 −134.1± 205.6
pull
Entries 98
Mean 282.9
Std Dev 0

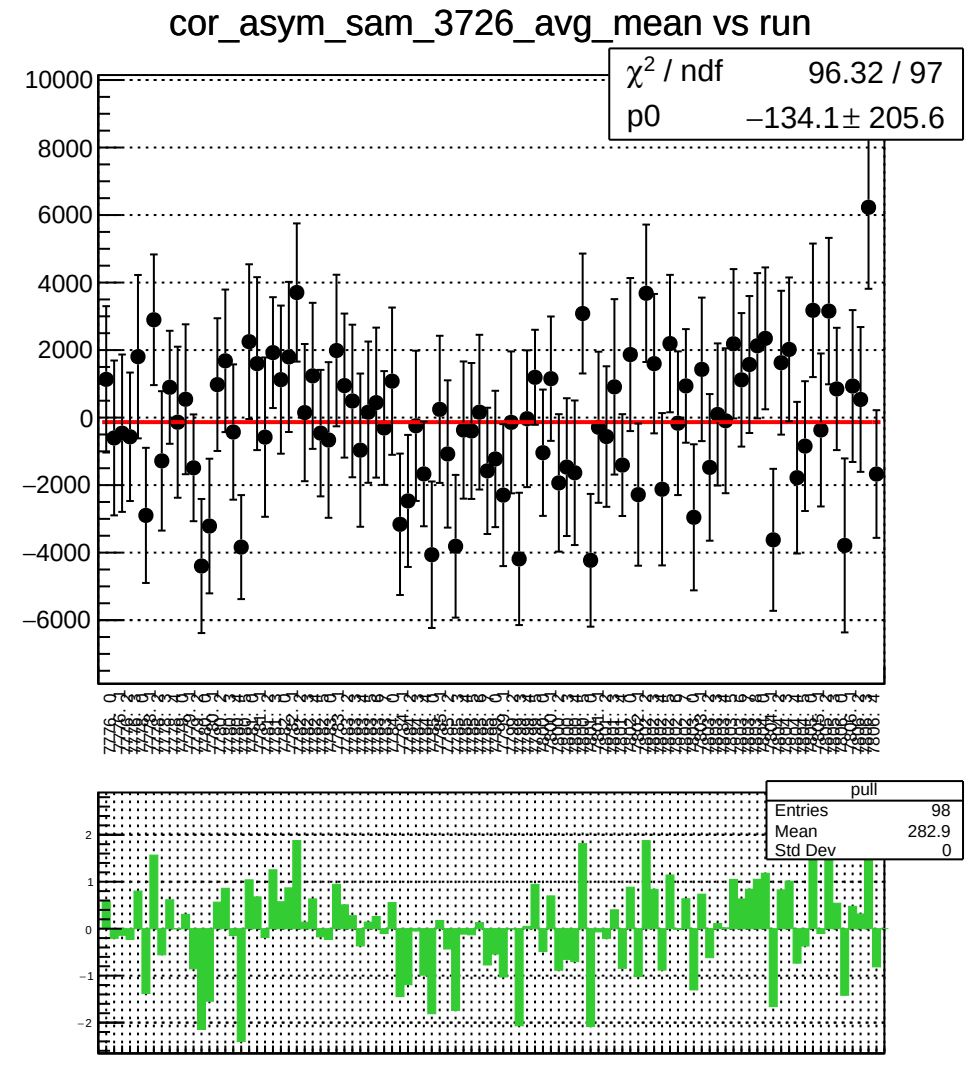

pull1D
Entries 98
Mean 0.01432
Std Dev 0.9913

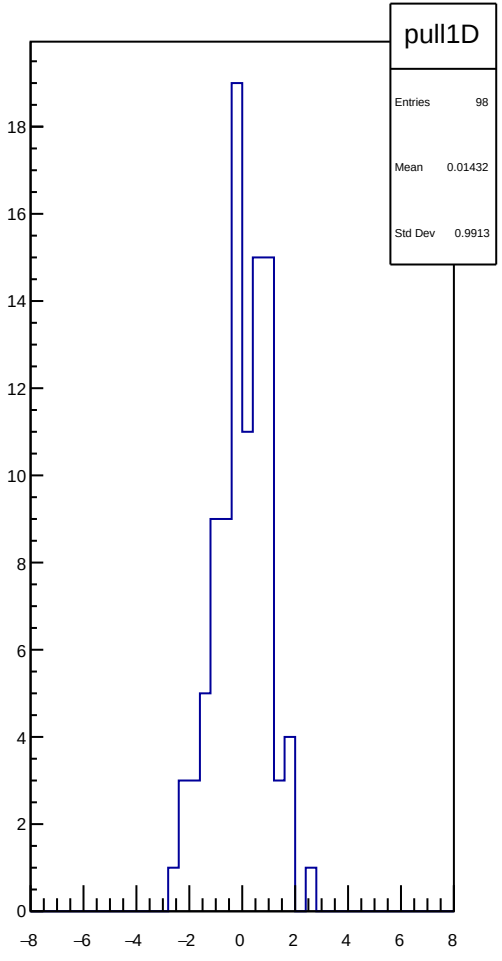

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 8255 / 97
p0 202.2 ± 0.1454
250
240
230
220
210
200
190
180
170

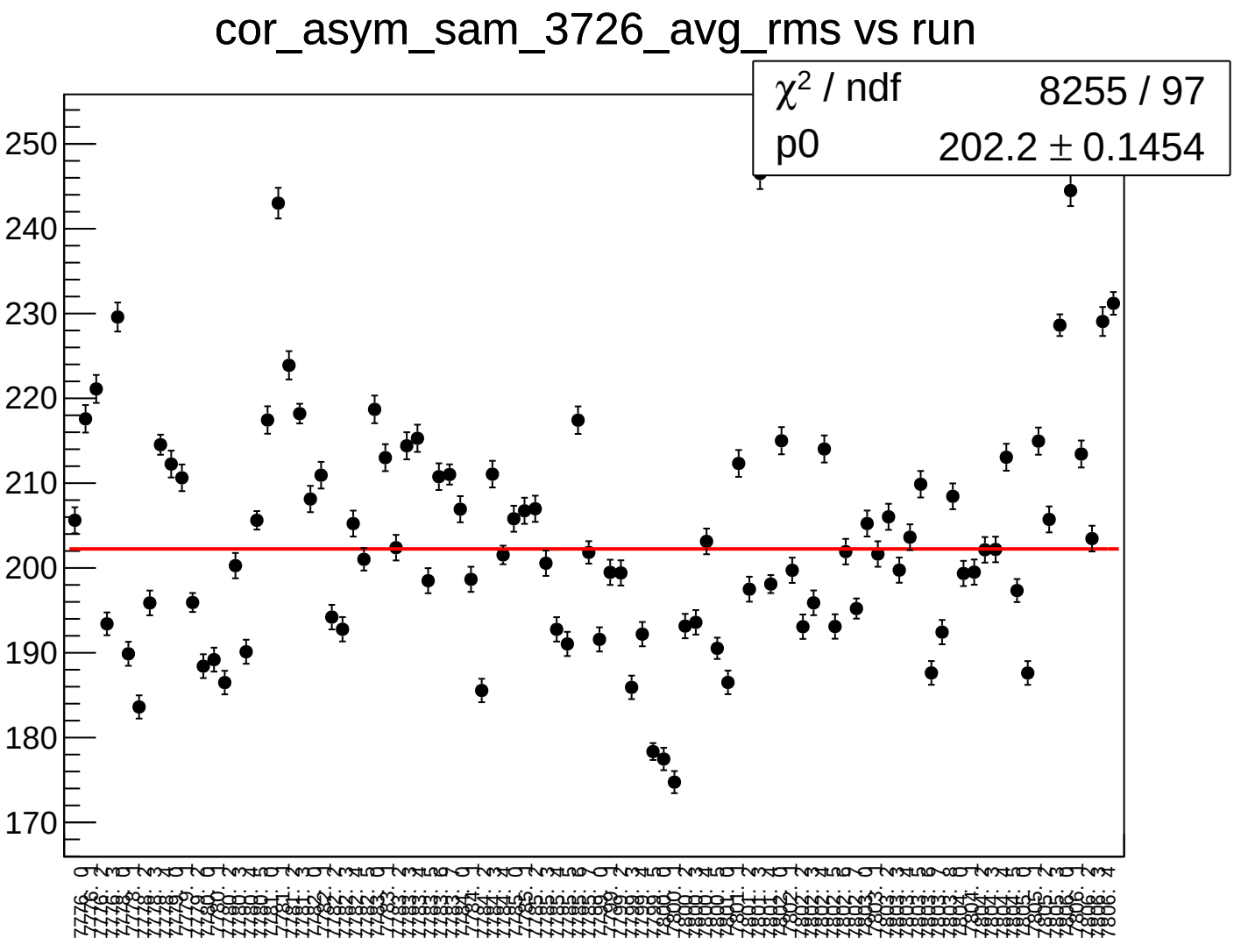

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 71.1 / 97
p0 −878.2 ± 2094
pull
Entries 98
Mean 1.434e+04
Std Dev 0

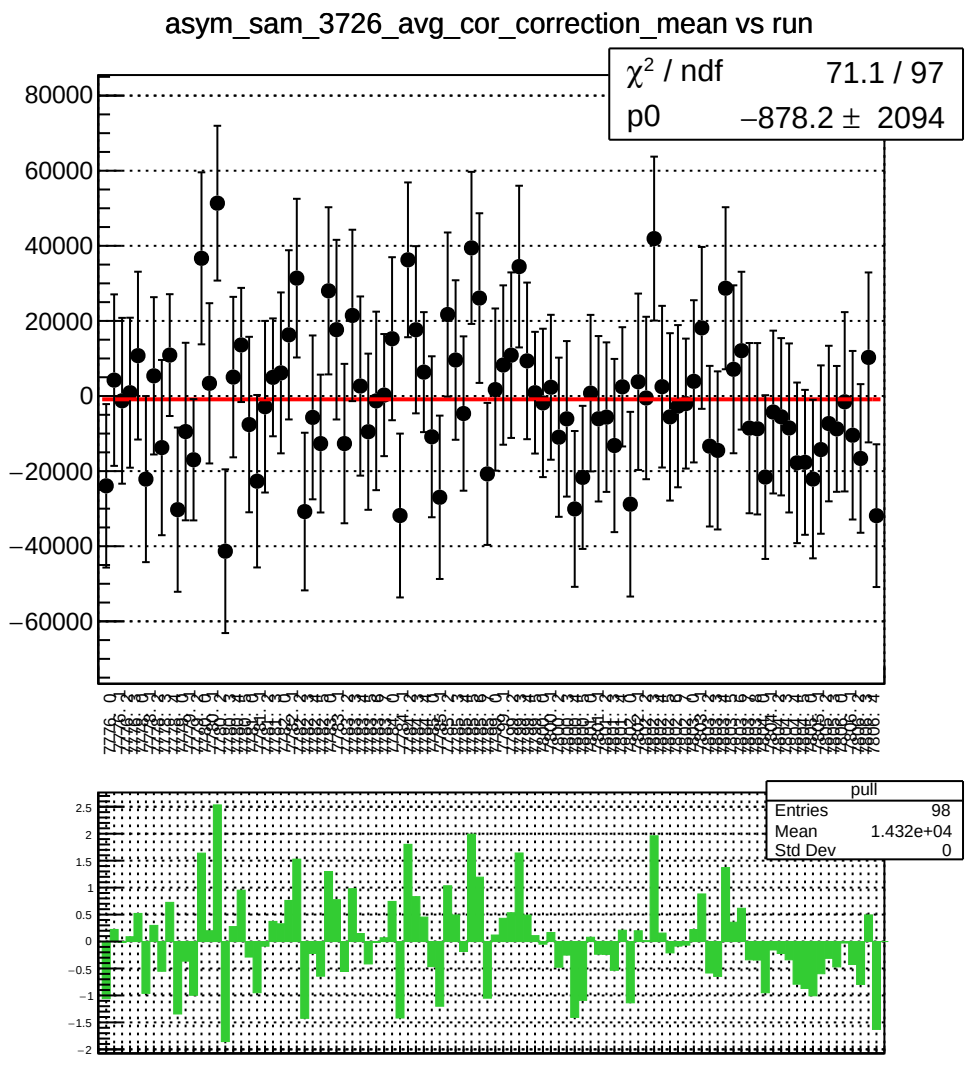

pull1D
Entries 98
Mean −0.0002515
Std Dev 0.8518

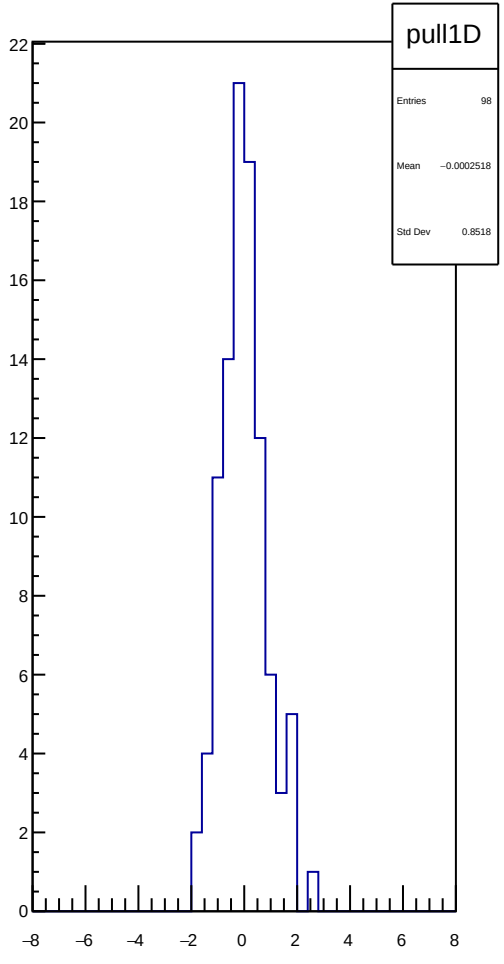

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 3894 / 97
p0 2061 ± 1.48
2400
2300
2200
2100
2000
1900
1800

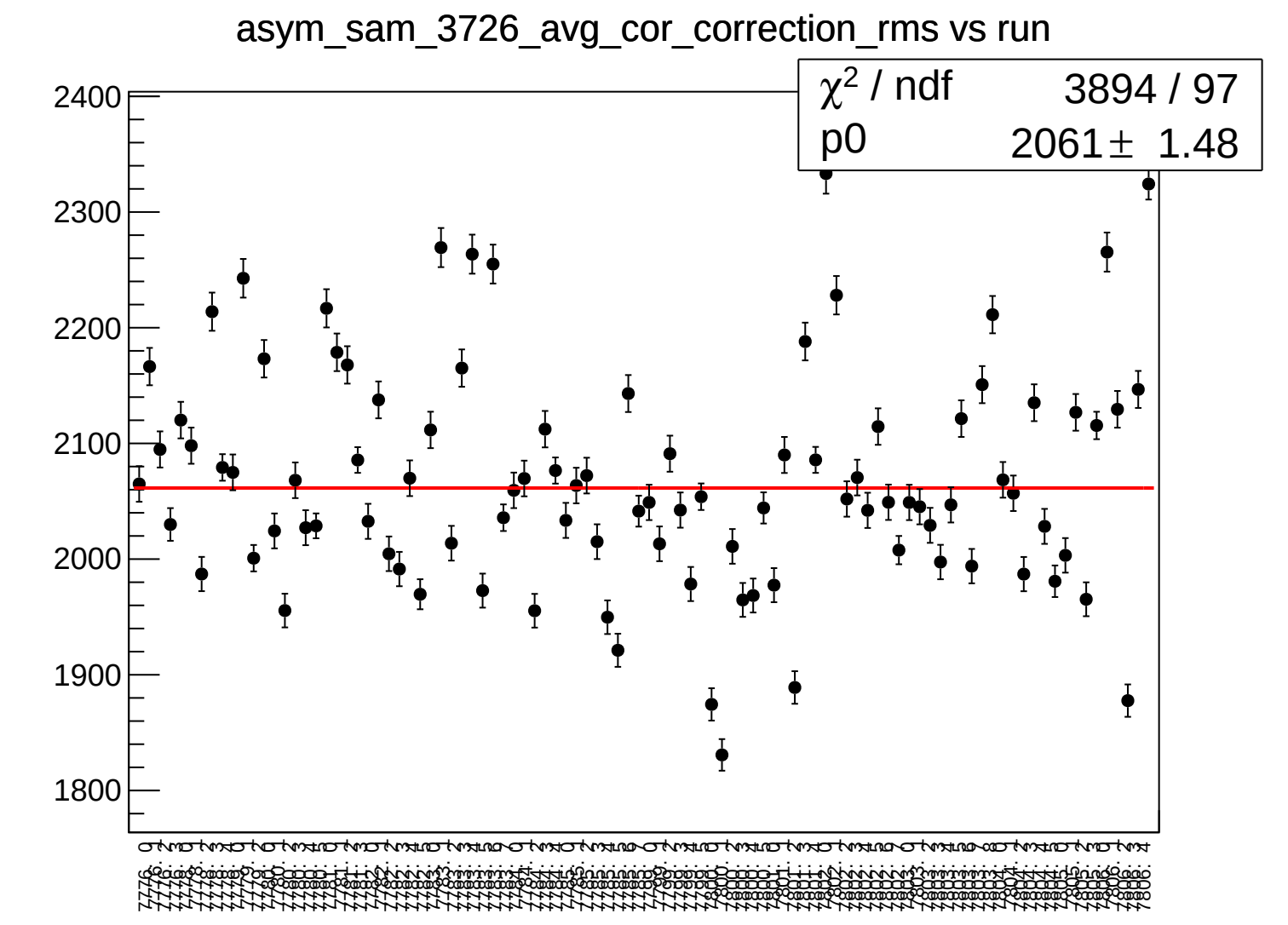

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 96.32 / 97
p0 −134.1± 205.6
pull
Entries 98
Mean 282.9
Std Dev 0

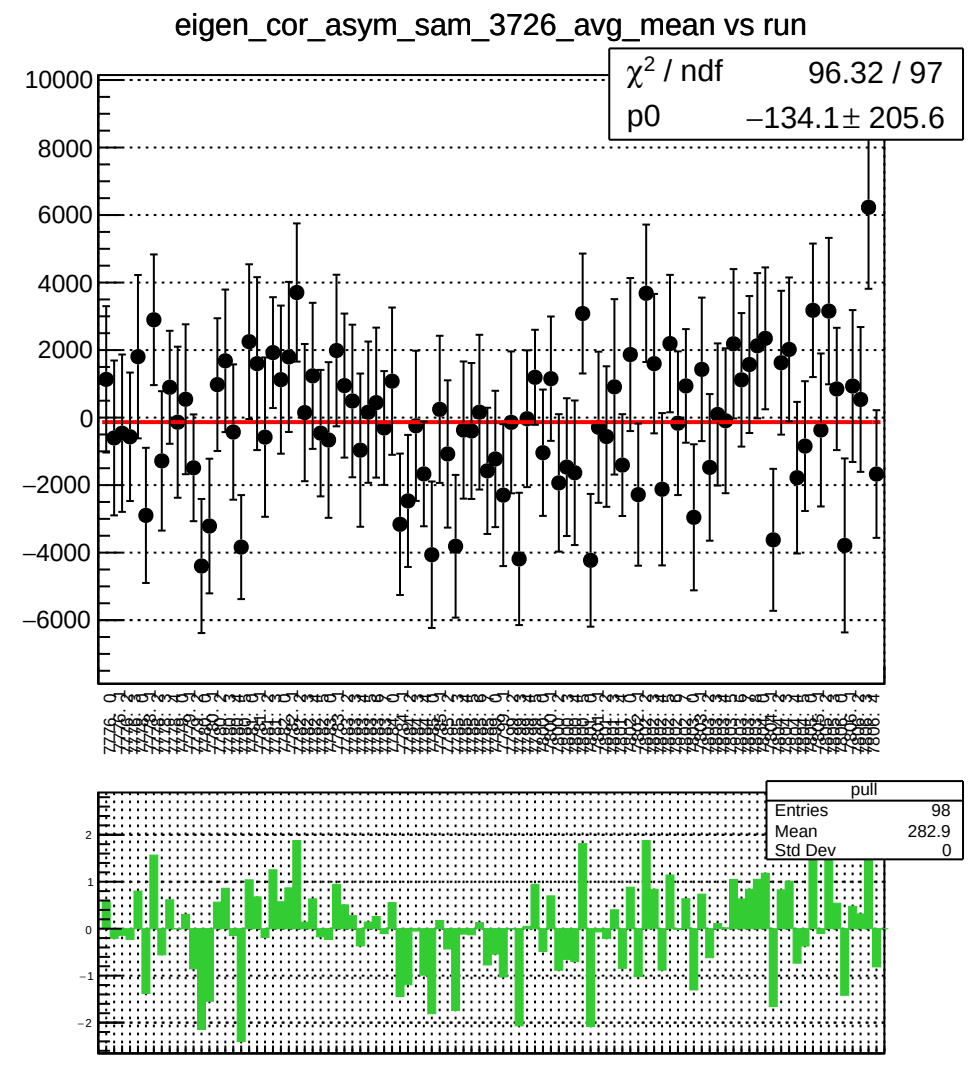

pull1D
Entries 98
Mean 0.01432
Std Dev 0.9913

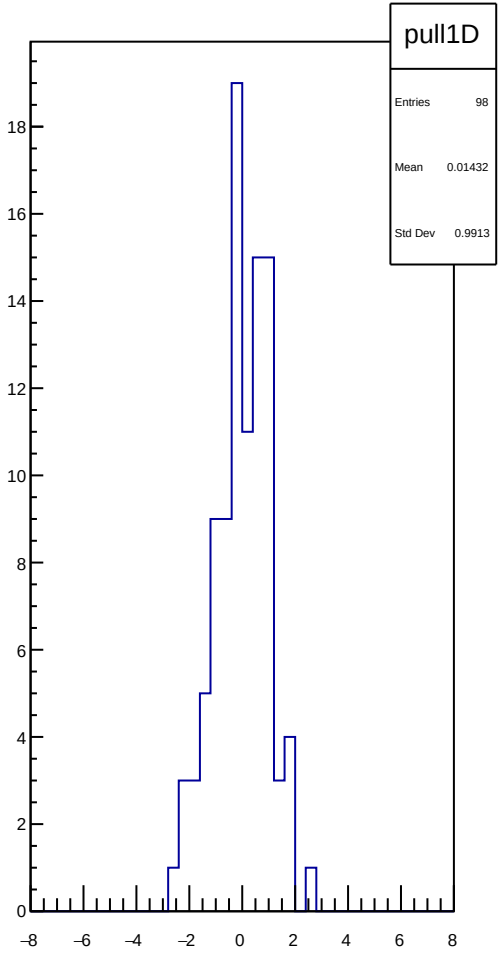

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 8255 / 97
p0 202.2 ± 0.1454
250
240
230
220
210
200
190
180
170

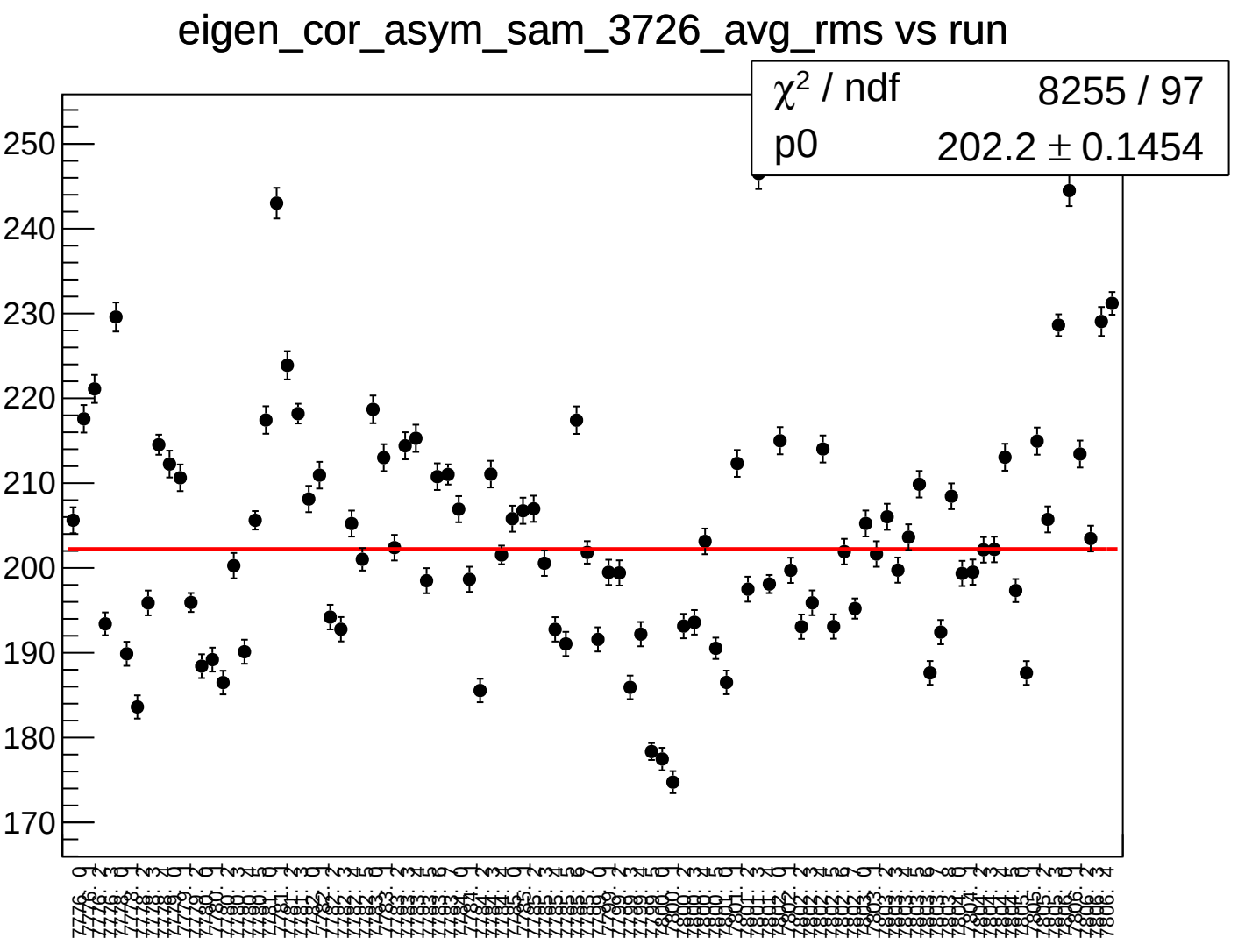

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 71.1 / 97
p0 −878.2 ± 2094
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 1.432e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

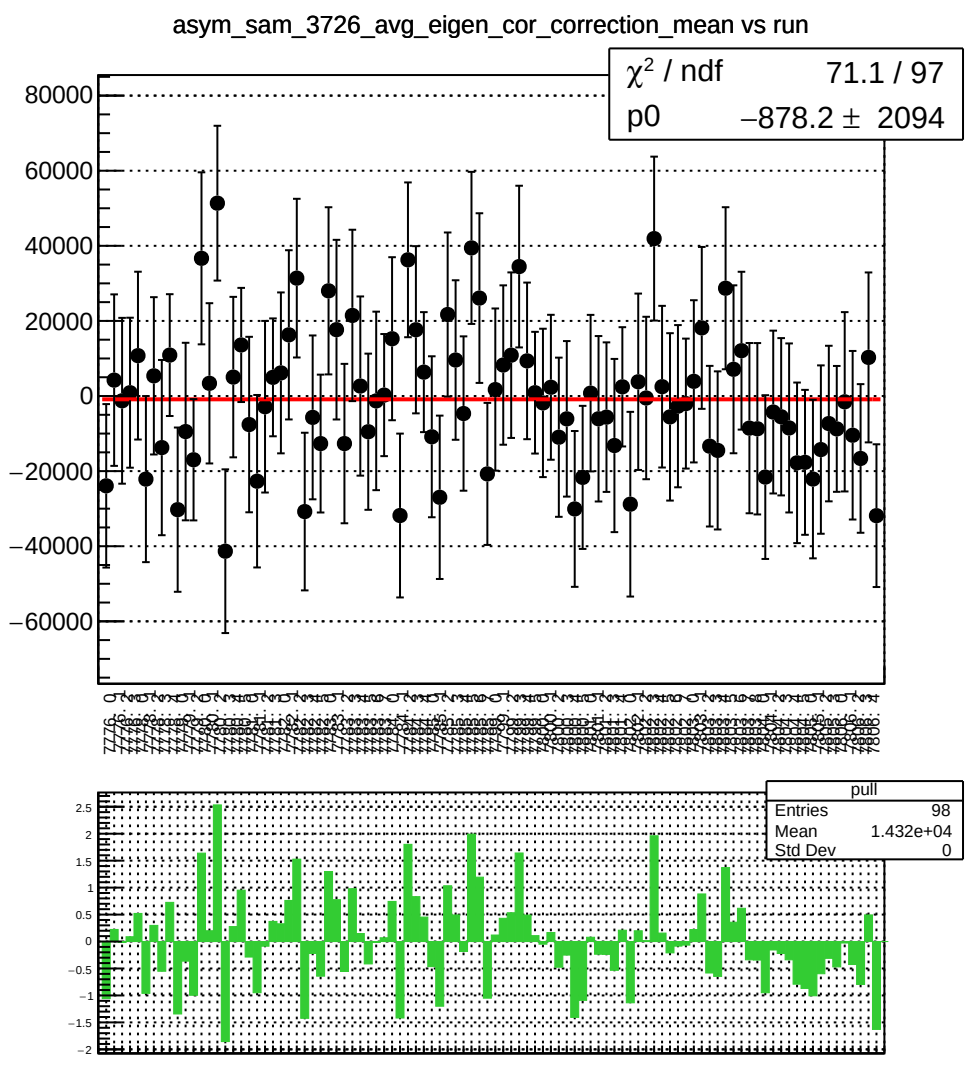

pull1D
Entries 98
Mean −0.0002518
Std Dev 0.8518
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

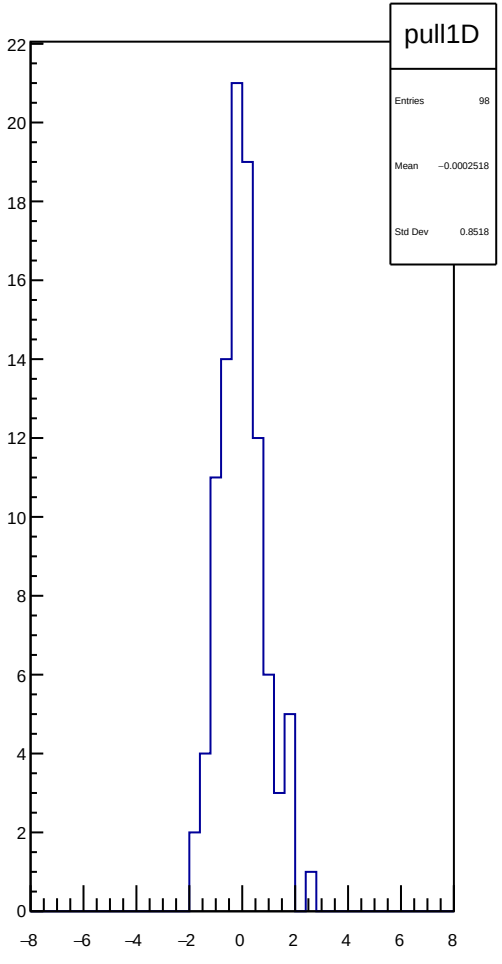

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 3894 / 97
p0 2061 ± 1.48
2400
2300
2200
2100
2000
1900
1800

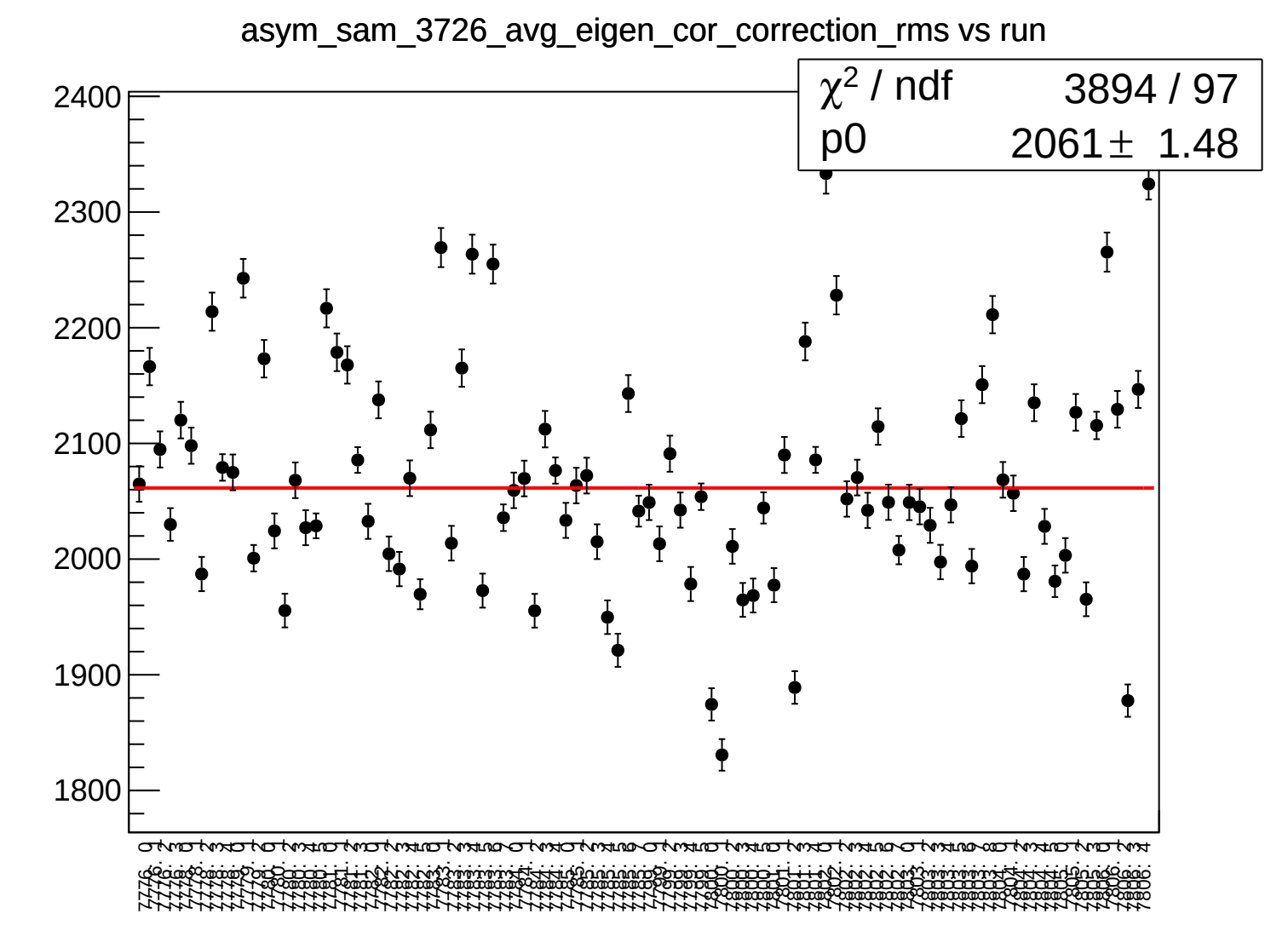

eigen_cor_asym_sam_3726_avg_mean vs run
χ^2 / ndf 96.32 / 97
p0 −134.1± 205.6
pull
Entries 98
Mean 282.9
Std Dev 0

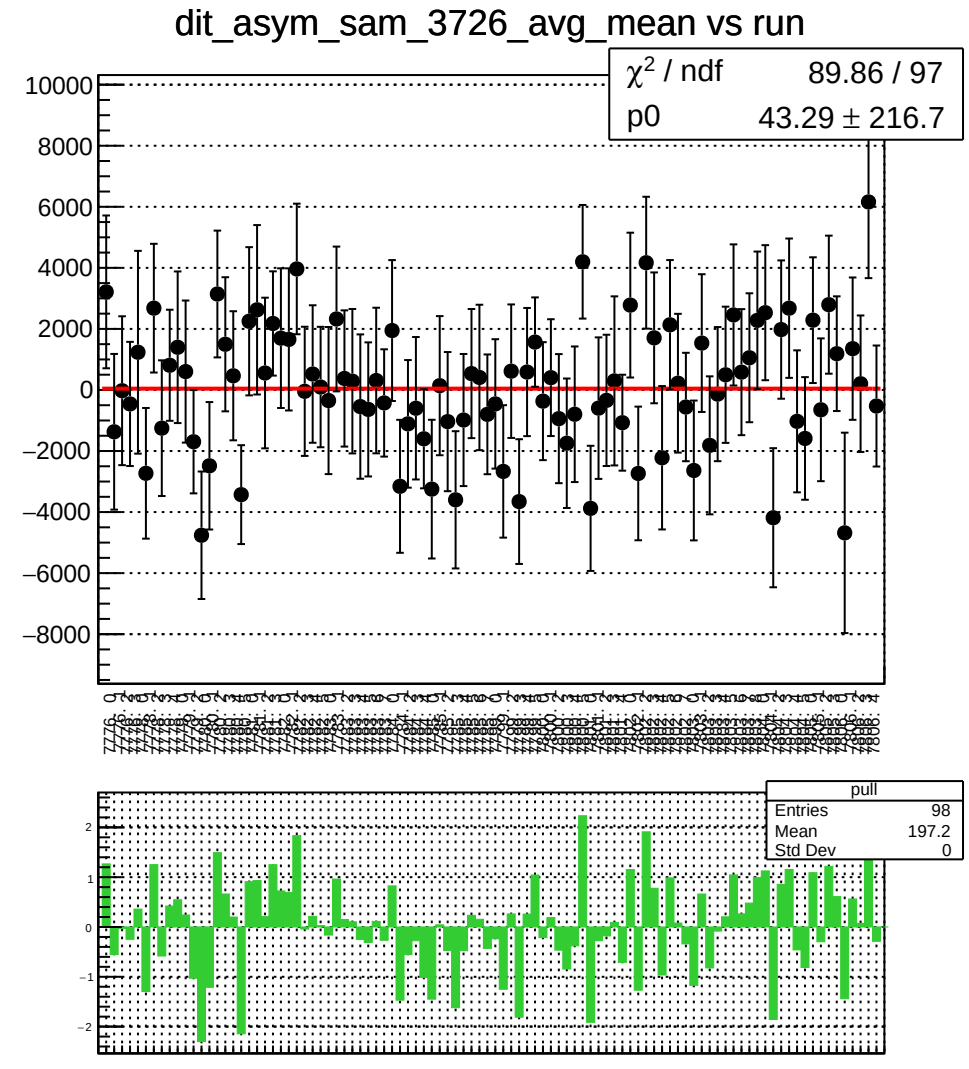

pull1D
Entries 98
Mean 0.01432
Std Dev 0.9913

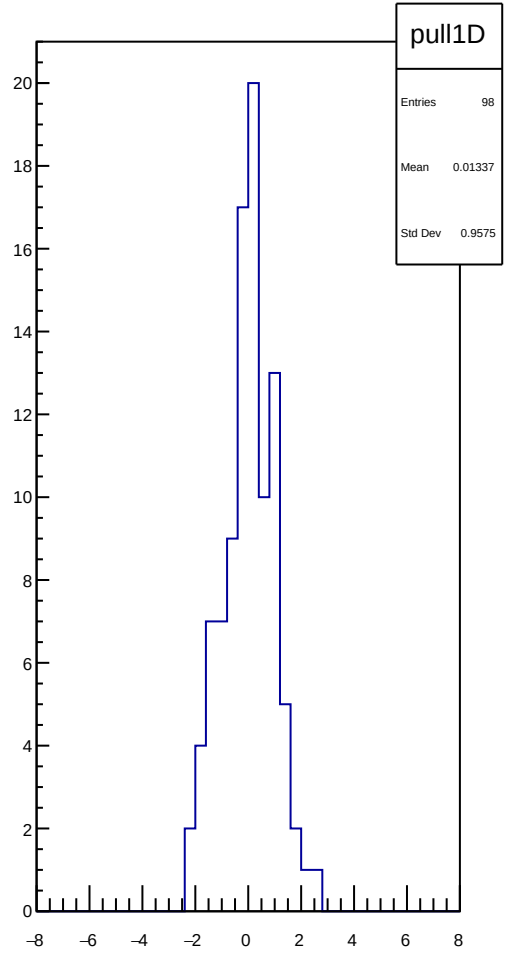

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 8255 / 97
p0 202.2 ± 0.1454
250
240
230
220
210
200
190
180
170

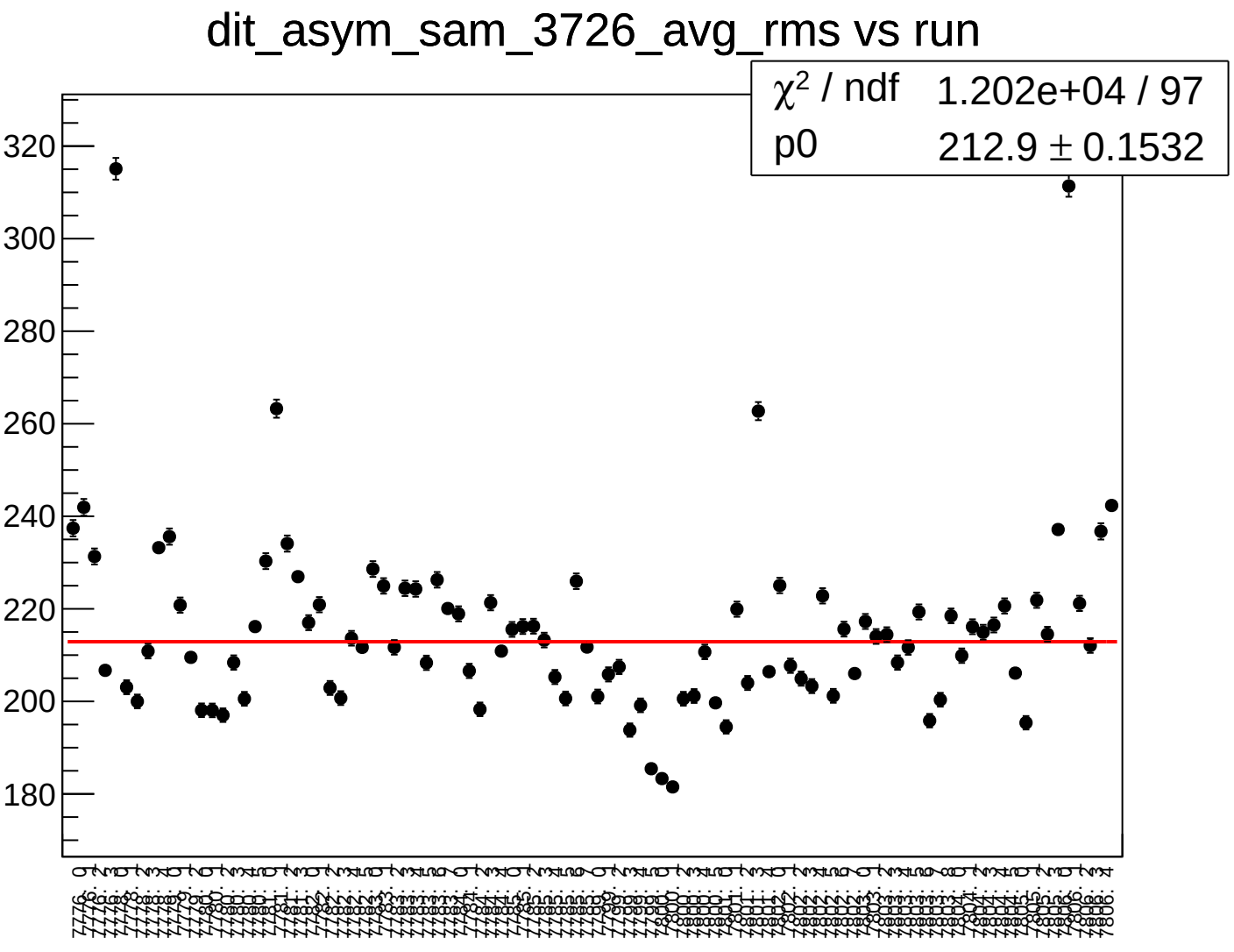

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.1 / 97
p0 −878.2 ± 2094
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean 1.432e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

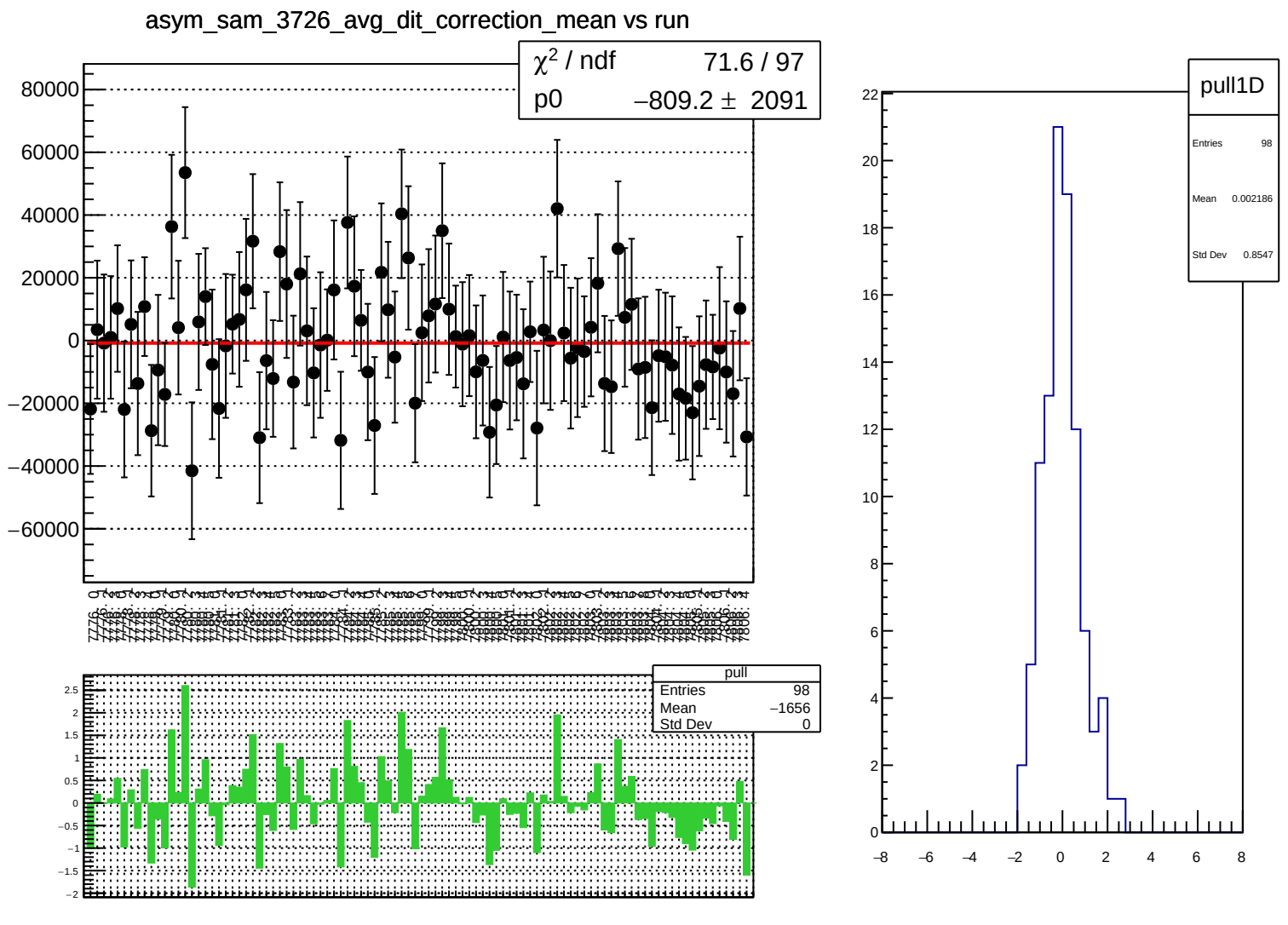

pull1D
Entries 98
Mean −0.0002518
Std Dev 0.8518
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

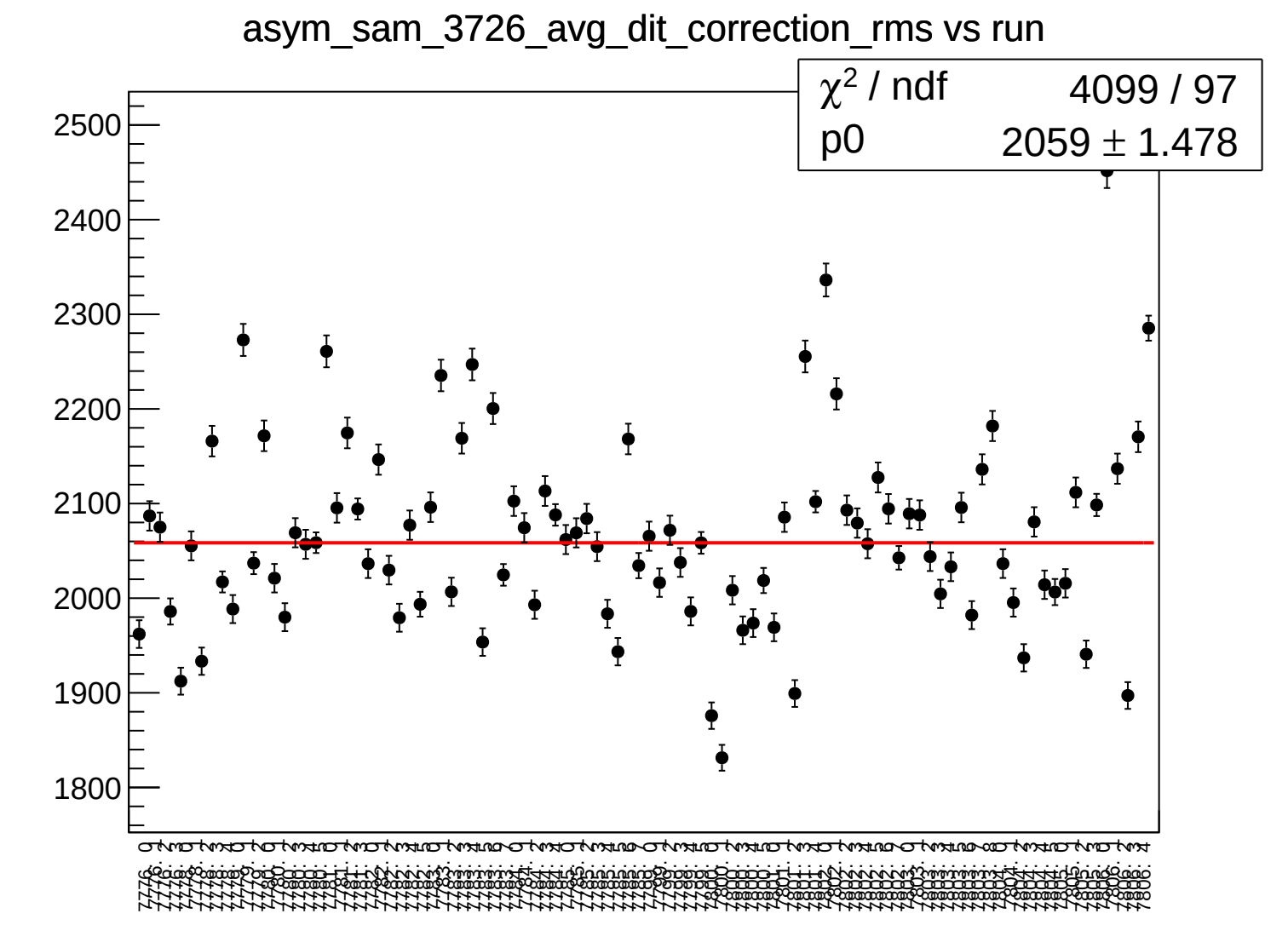

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 3894 / 97
p0 2061 ± 1.48
2400
2300
2200
2100
2000
1900
1800

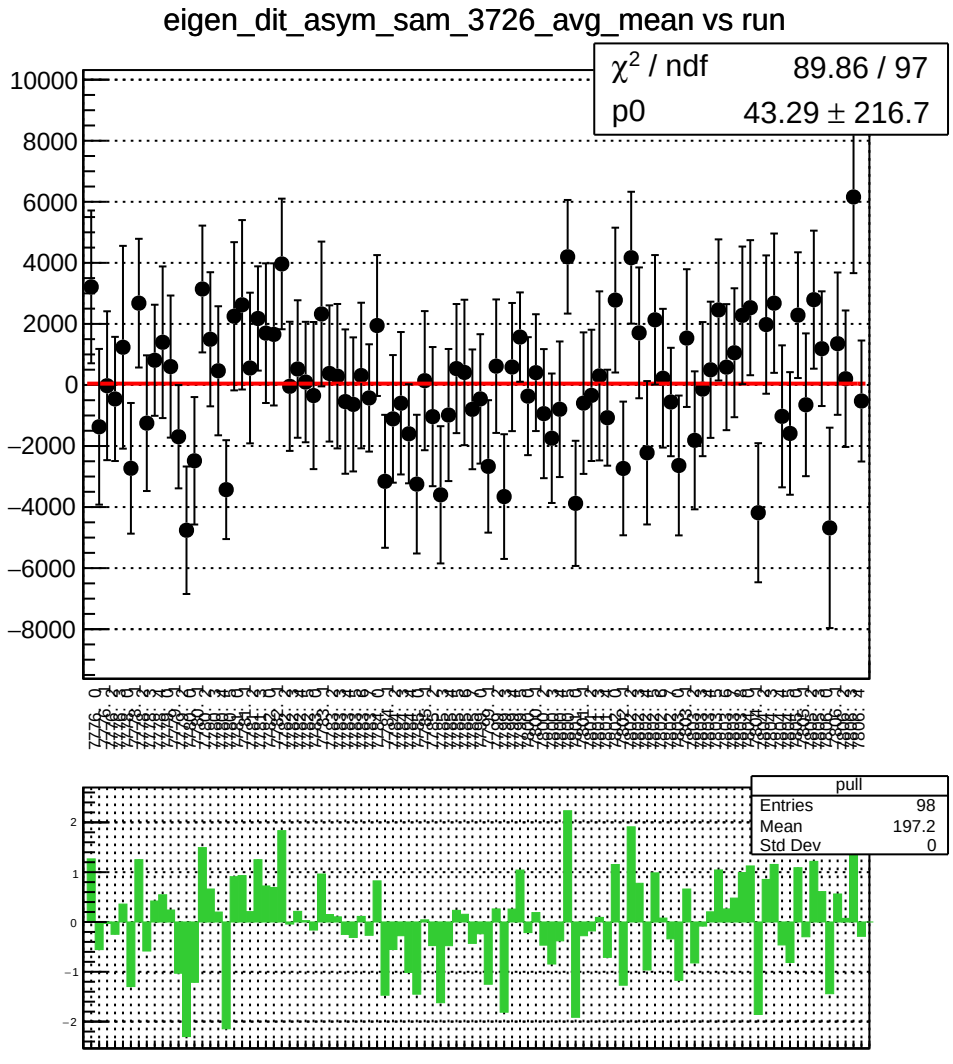

dit_asym_sam_3726_avg_mean vs run
χ^2 / ndf 89.86 / 97
p0 43.29 ± 216.7
pull
Entries 98
Mean 197.2
Std Dev 0

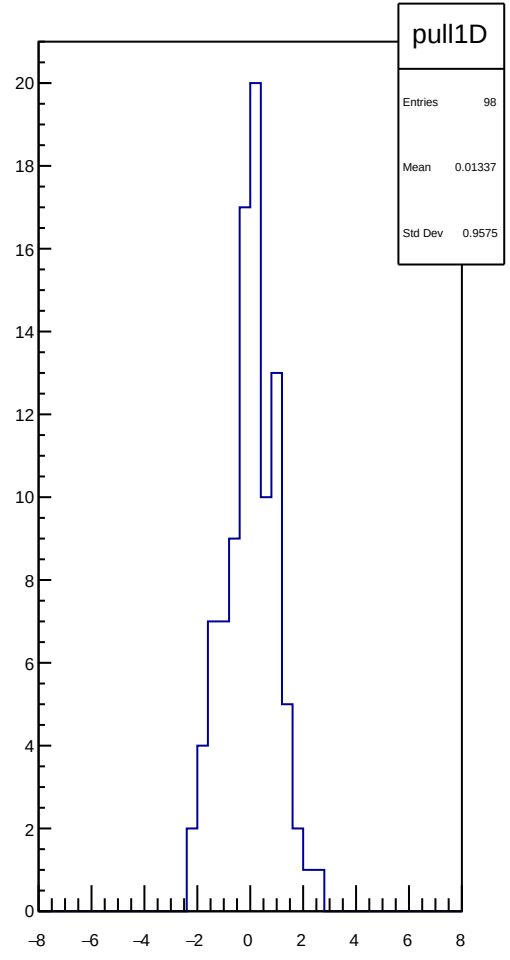

pull1D
Entries 98
Mean 0.01337
Std Dev 0.9575

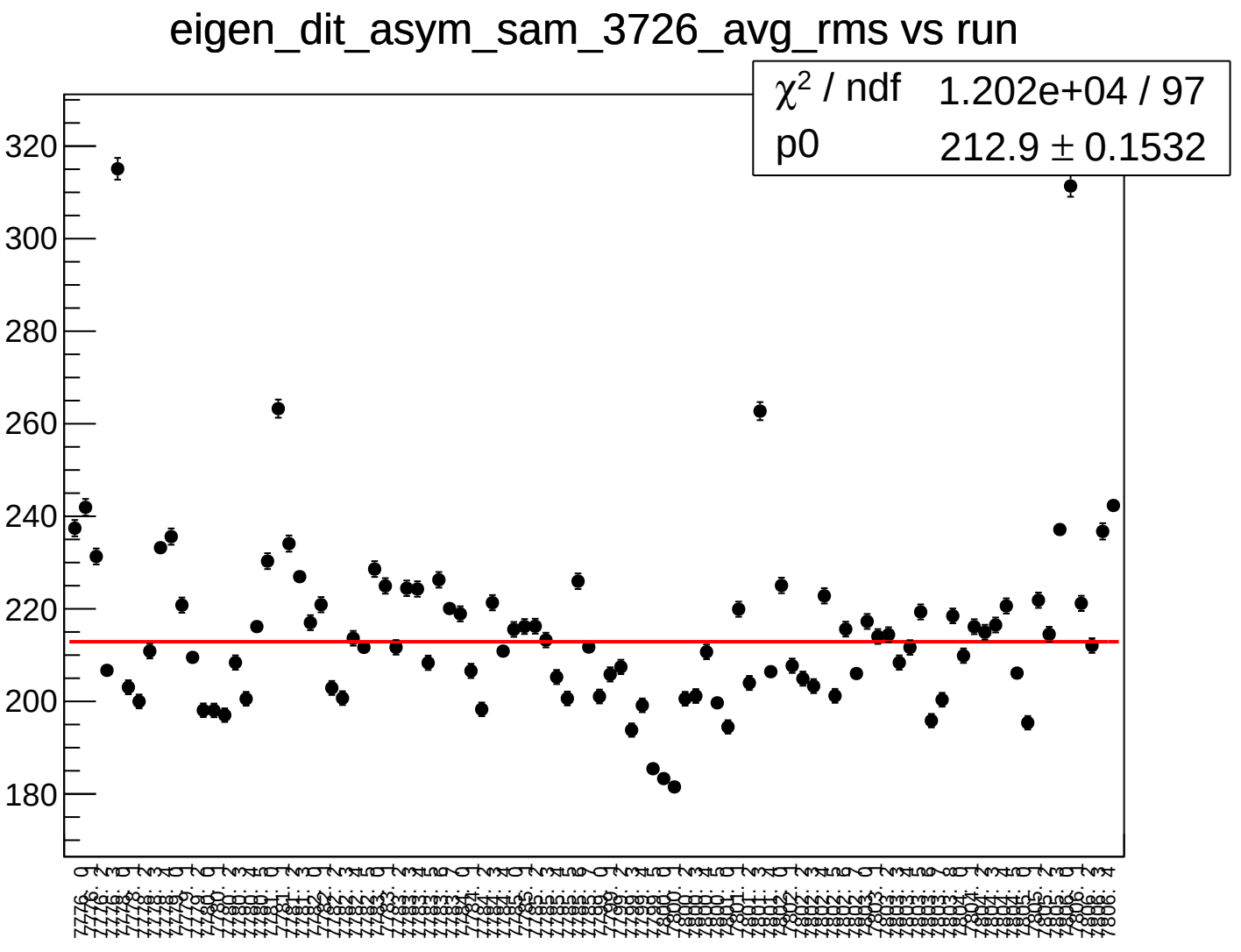

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.202e+04 / 97
p0 212.9 ± 0.1532
320
300
280
260
240
220
200
180

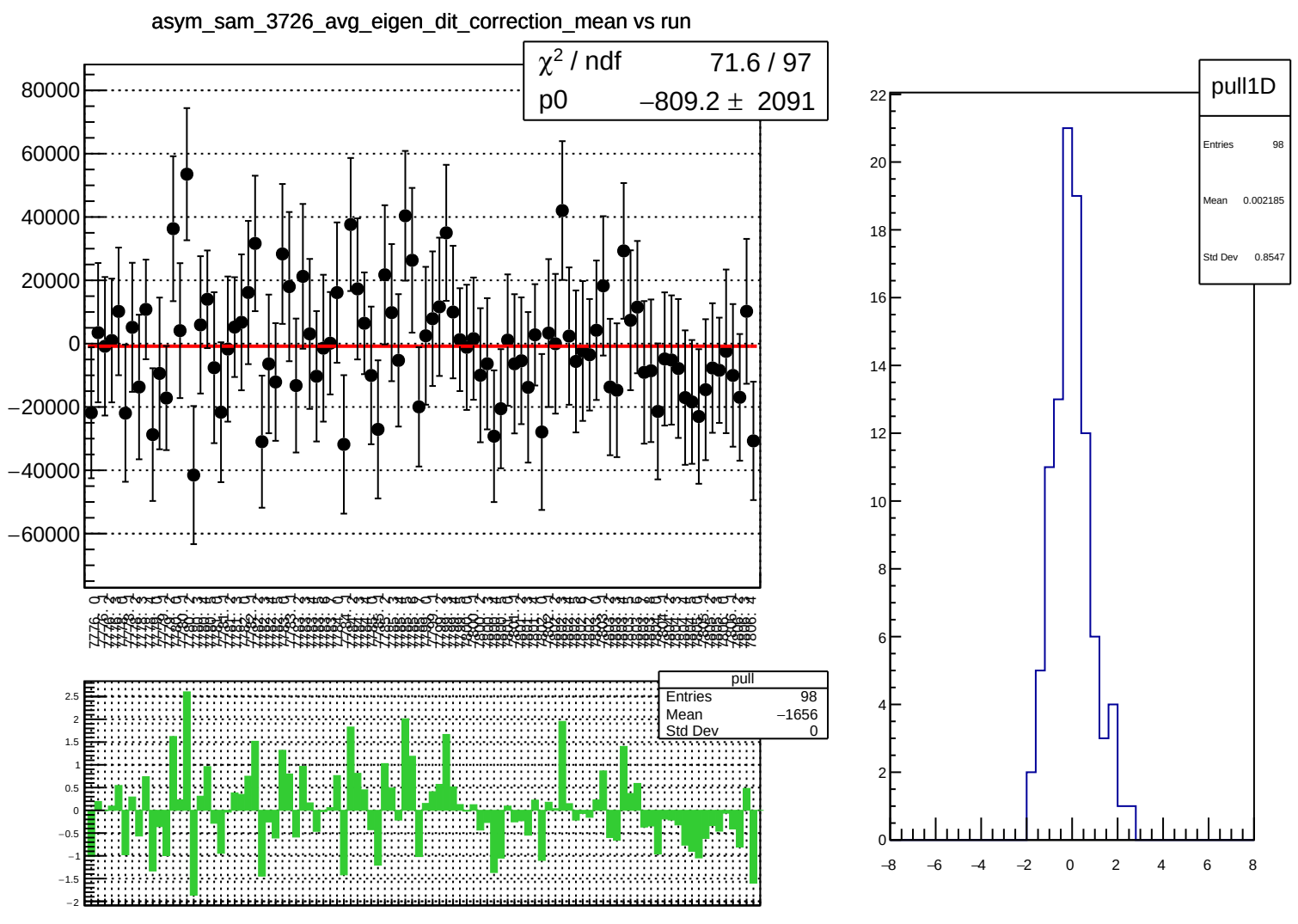

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 71.6 / 97
p0 −809.2 ± 2091
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −1656
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.002186
Std Dev 0.8547
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

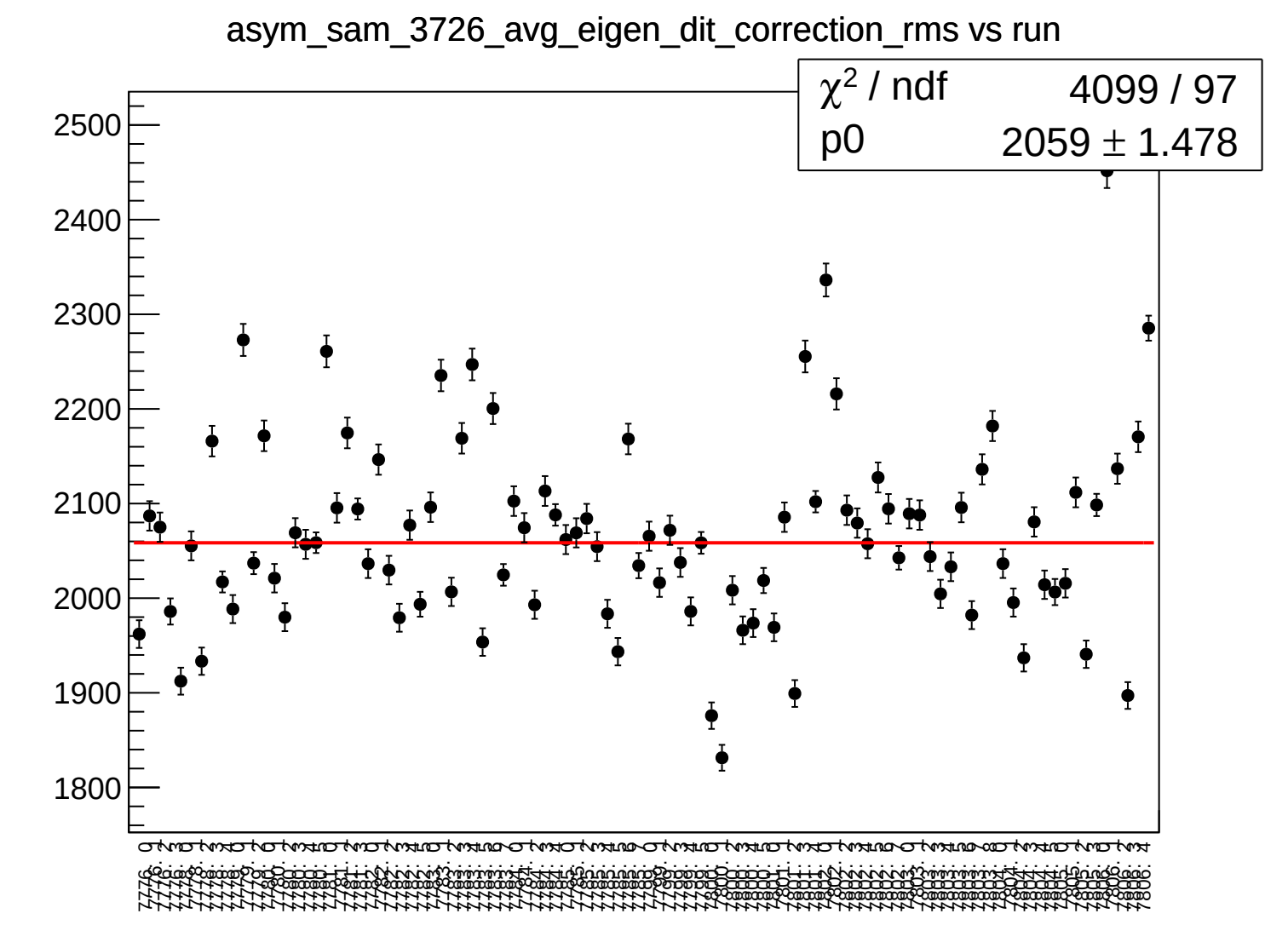

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 4099 / 97
p0 2059 ± 1.478
2500
2400
2300
2200
2100
2000
1900
1800

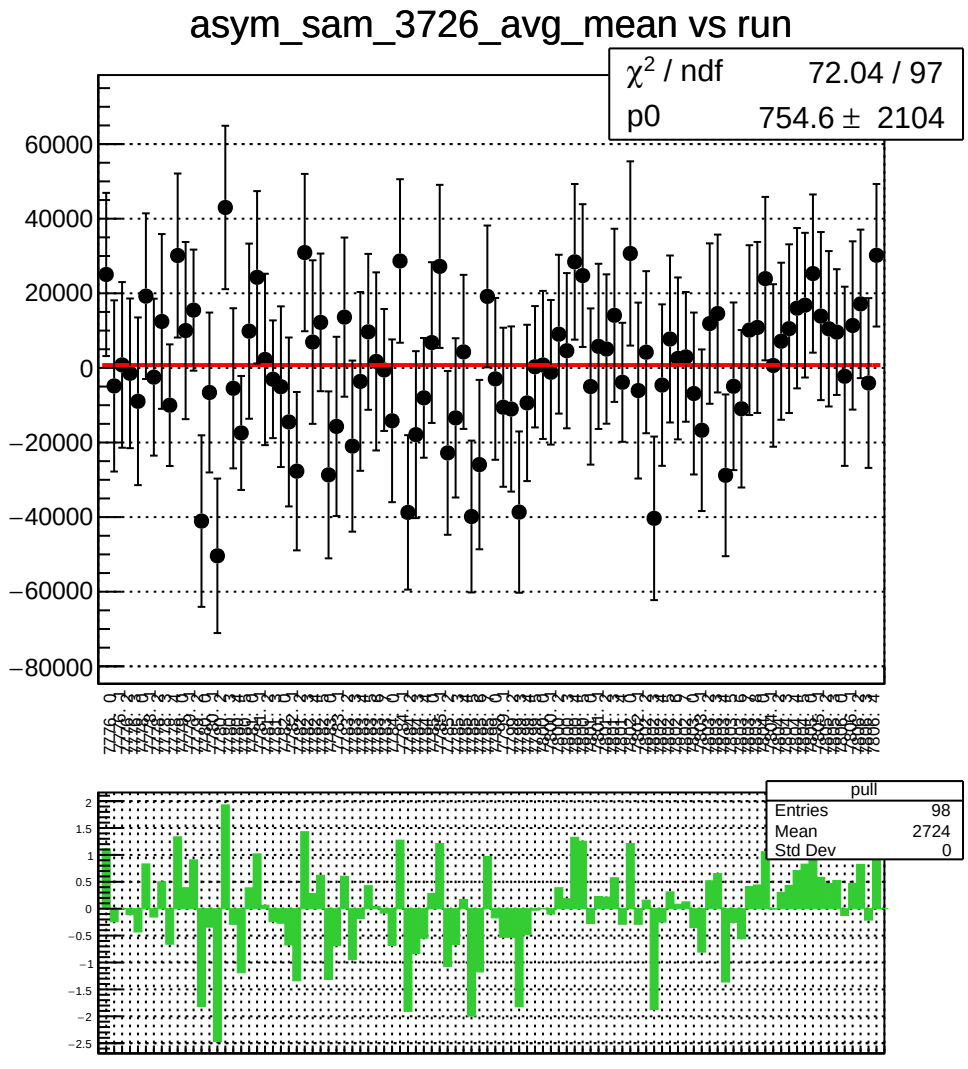

eigen_dit_asym_sam_3726_avg_mean vs run
χ^2 / ndf 89.86 / 97
p0 43.29 ± 216.7
pull
Entries 98
Mean 197.2
Std Dev 0

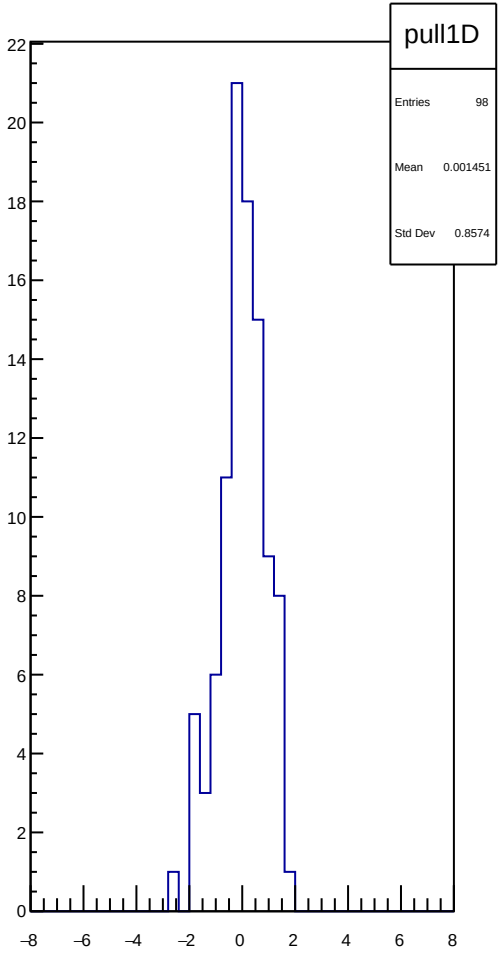

pull1D
Entries 98
Mean 0.01337
Std Dev 0.9575

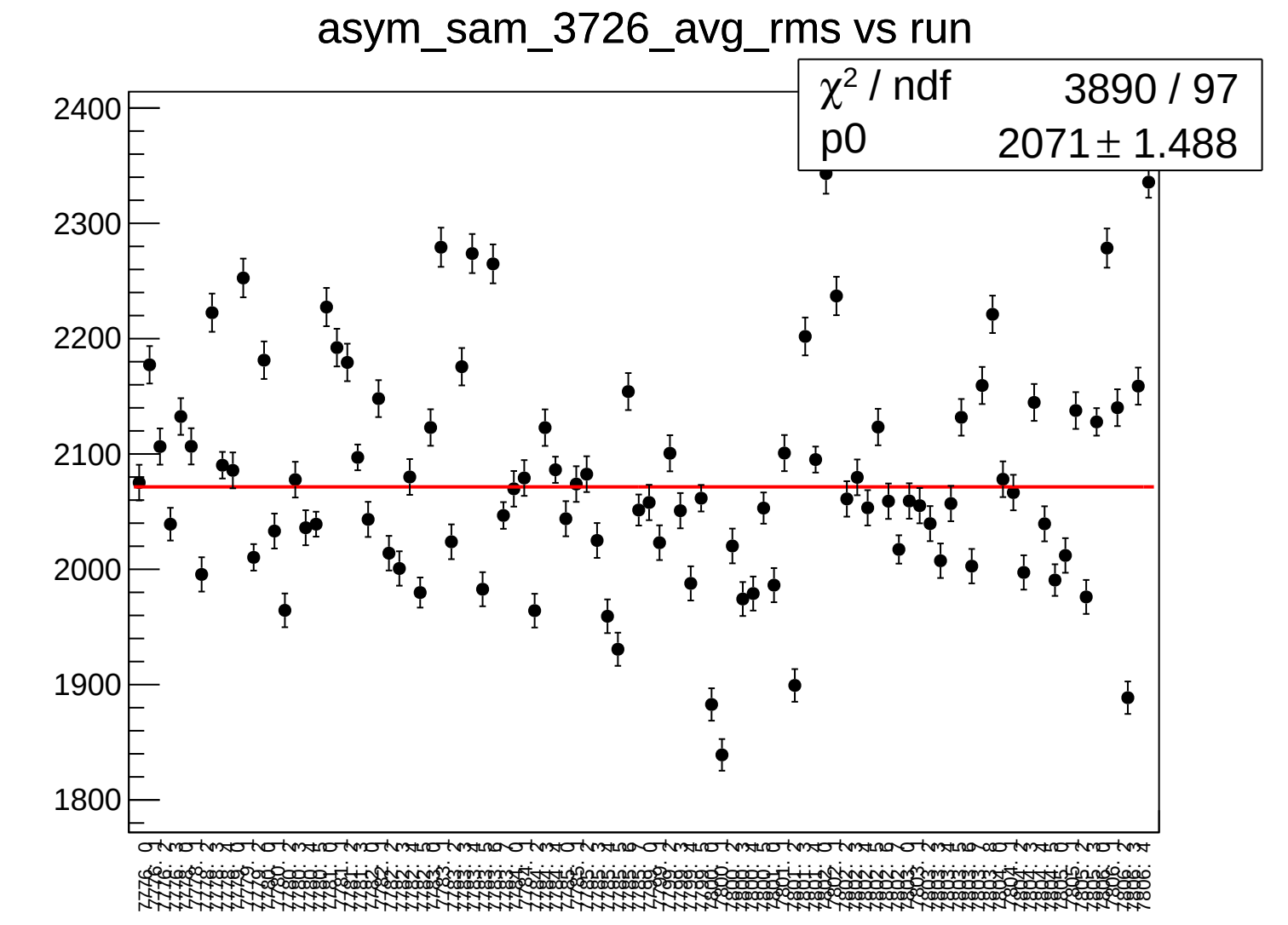

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.202e+04 / 97
p0 212.9 ± 0.1532
320
300
280
260
240
220
200
180

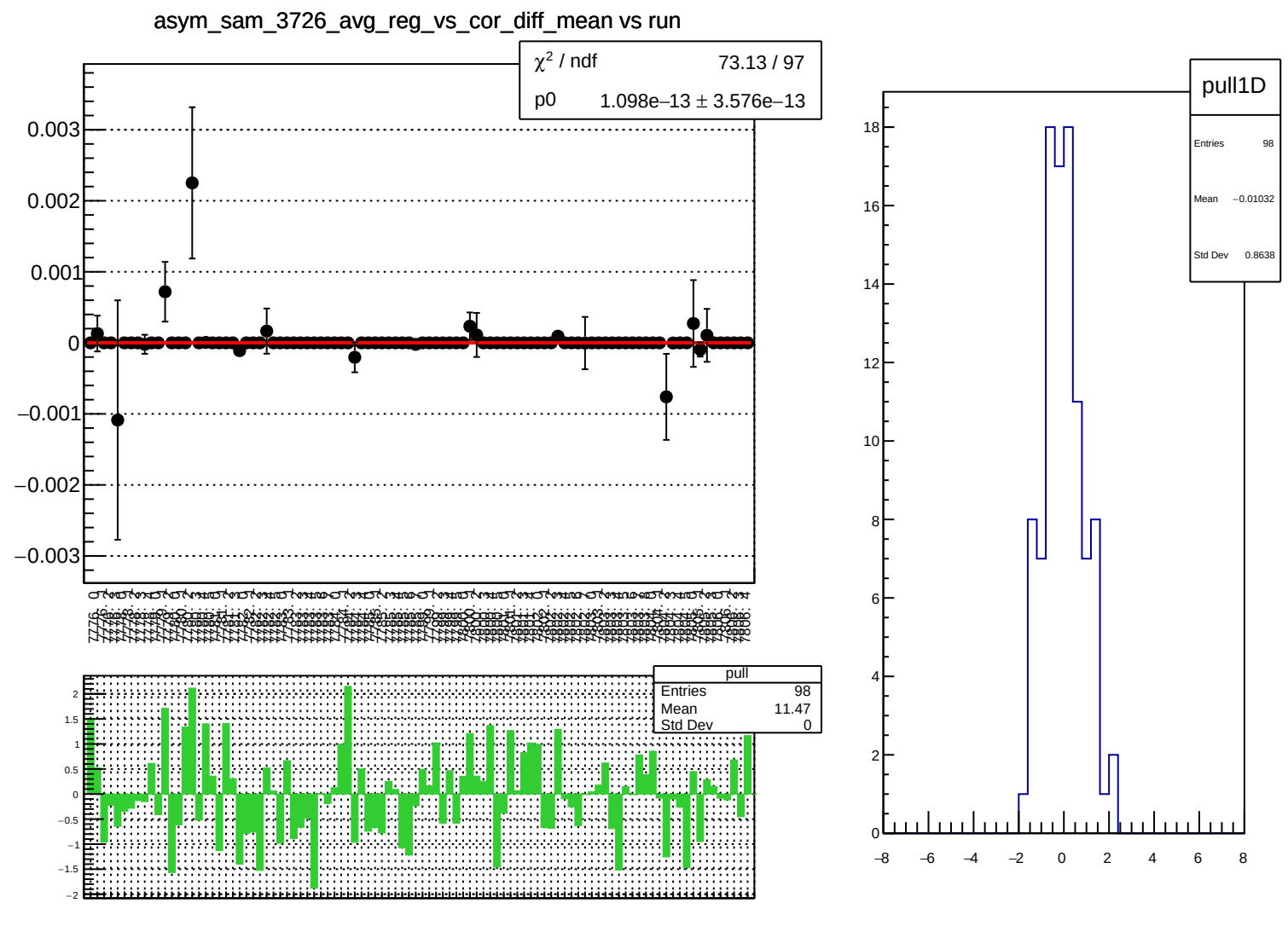

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 71.6 / 97
p0 −809.2 ± 2091
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −1656
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.002185
Std Dev 0.8547
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

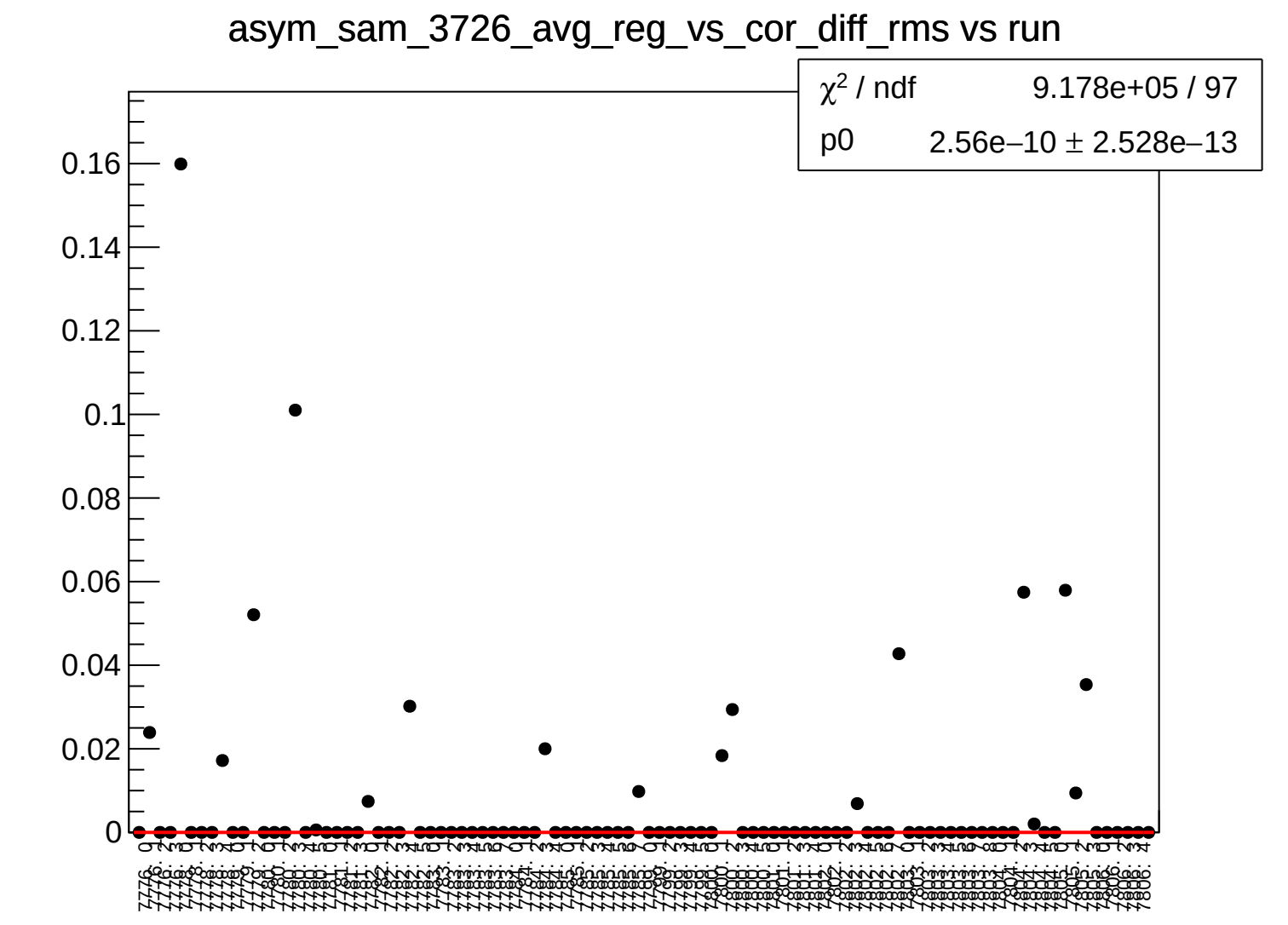

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 4099 / 97
p0 2059 ± 1.478
2500
2400
2300
2200
2100
2000
1900
1800

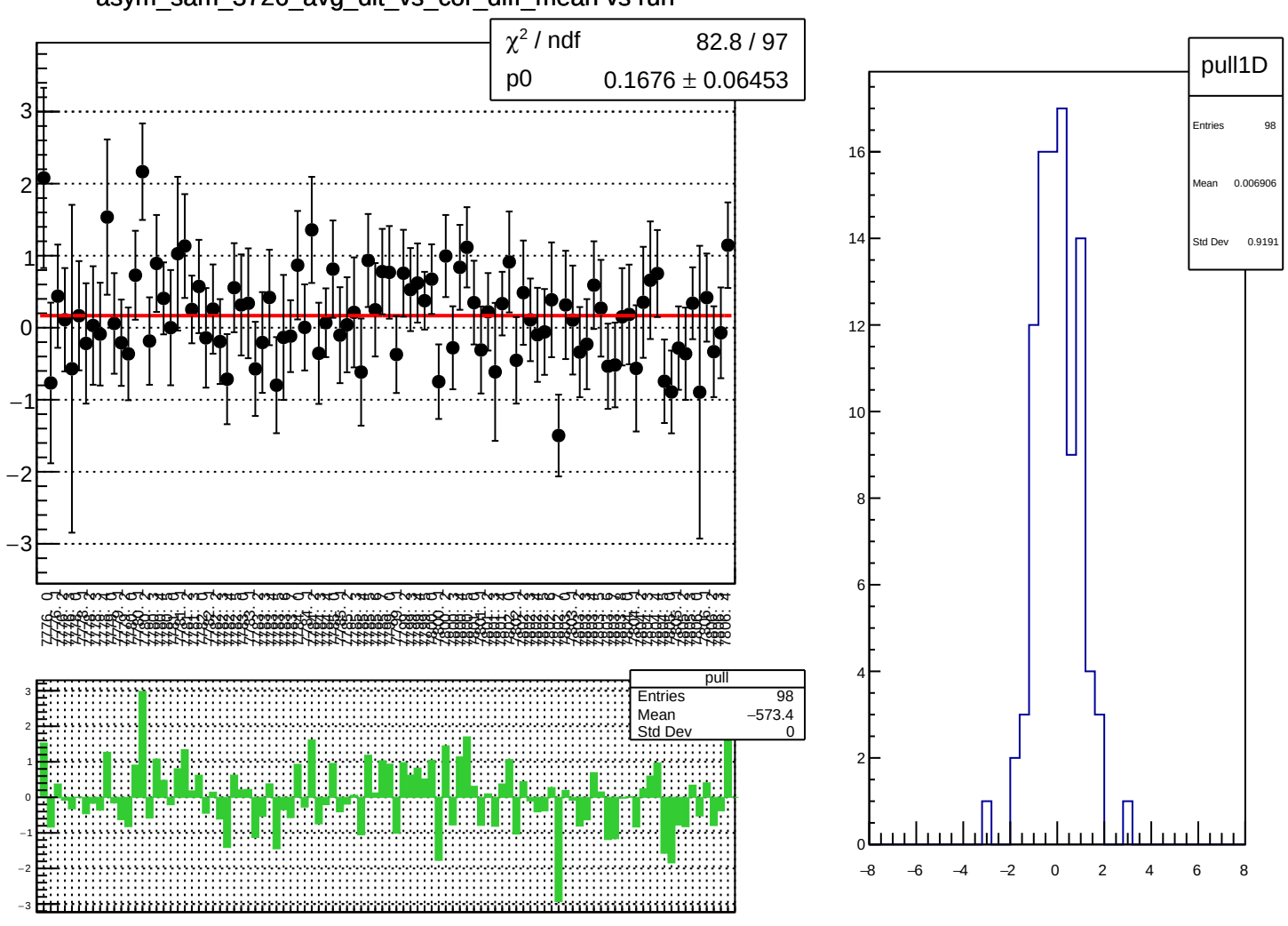

asym_sam_3726_avg_mean vs run
χ² / ndf 72.04 / 97
p0 754.6 ± 2104
pull
Entries 98
Mean 2724
Std Dev 0

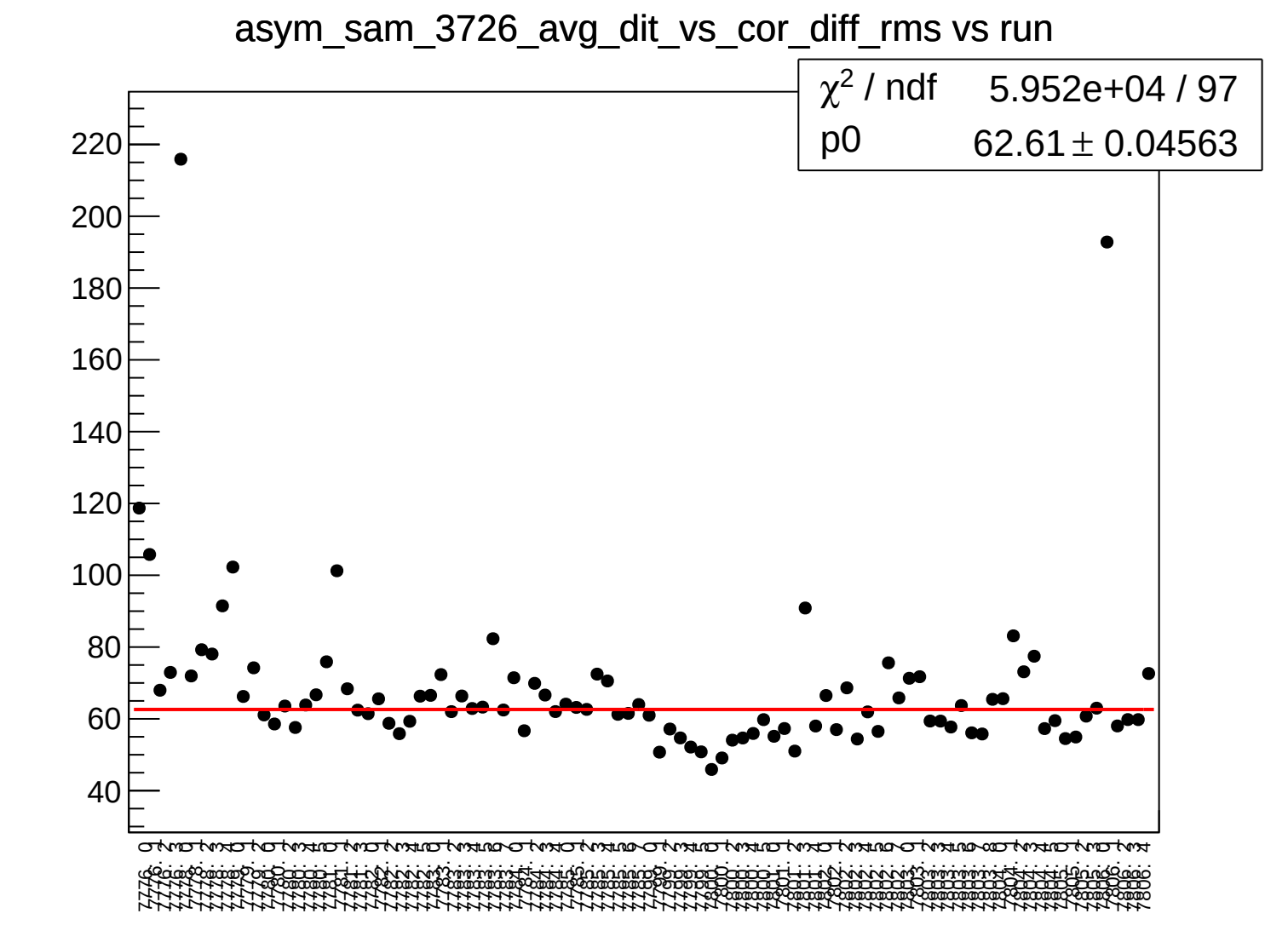

pull1D
Entries 98
Mean 0.001451
Std Dev 0.8574

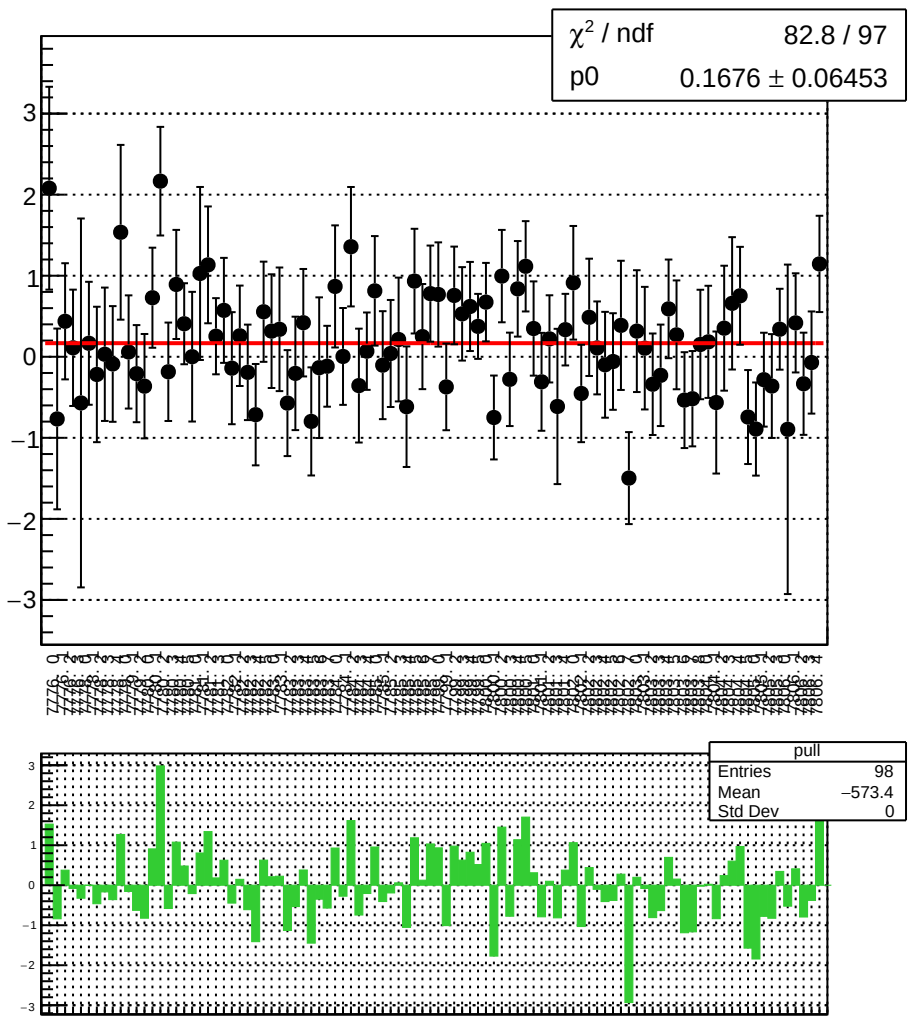

asym_sam_3726_avg_rms vs run
χ² / ndf 3890 / 97
p0 2071 ± 1.488
2400
2300
2200
2100
2000
1900
1800

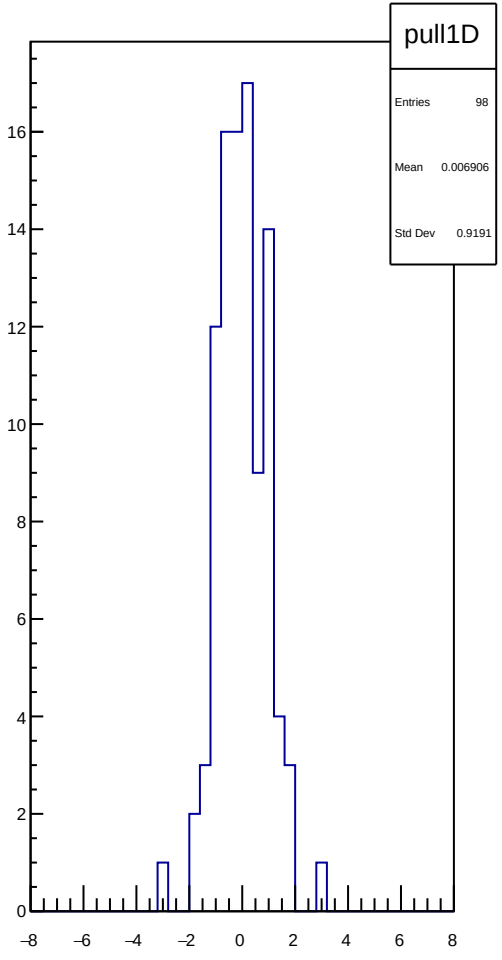

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.13 / 97
p0 1.098e−13 ± 3.576e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 98
Mean 11.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.01032
Std Dev 0.8638
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

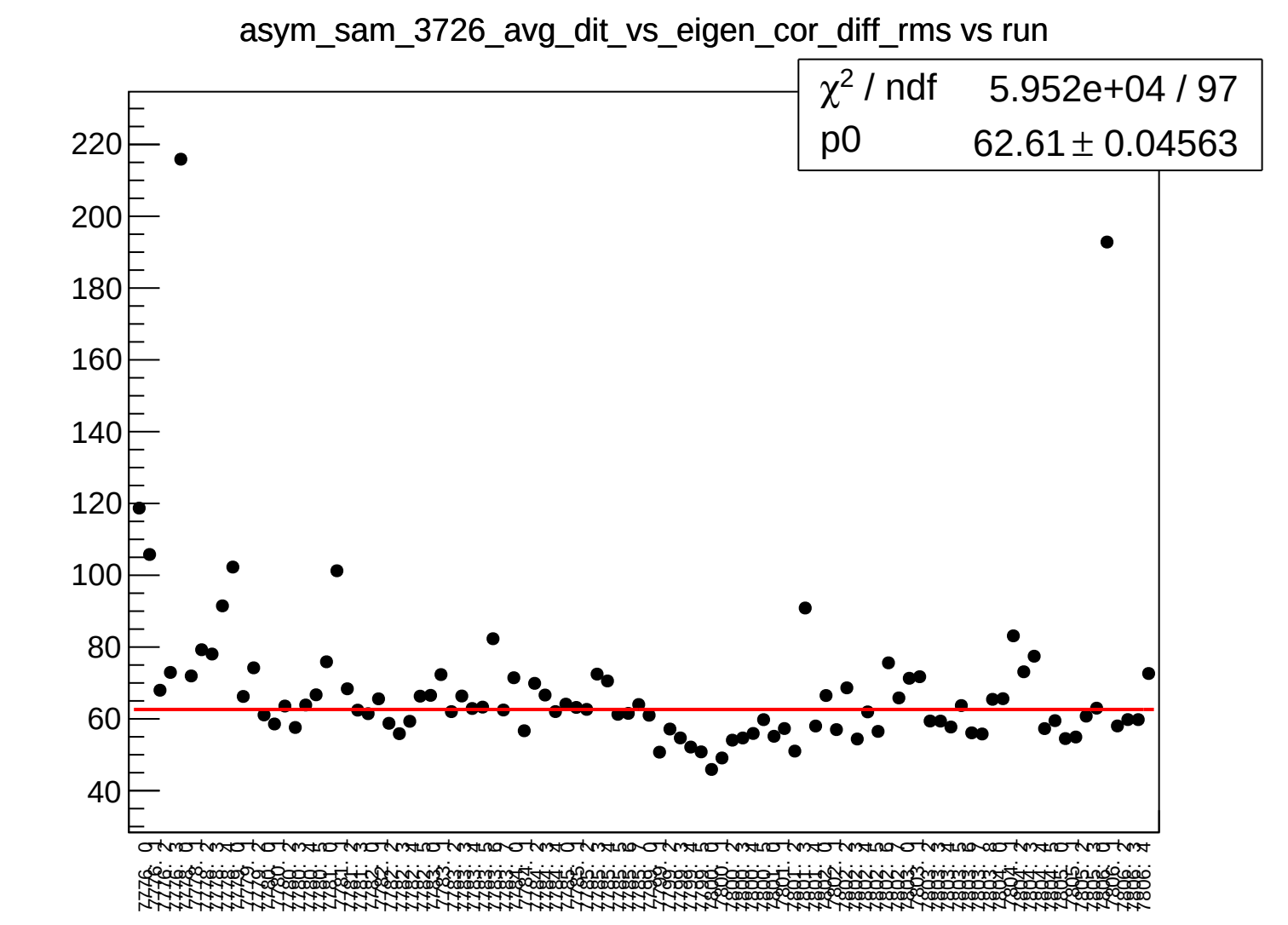

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.178e+05 / 97
p0 2.56e−10 ± 2.528e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

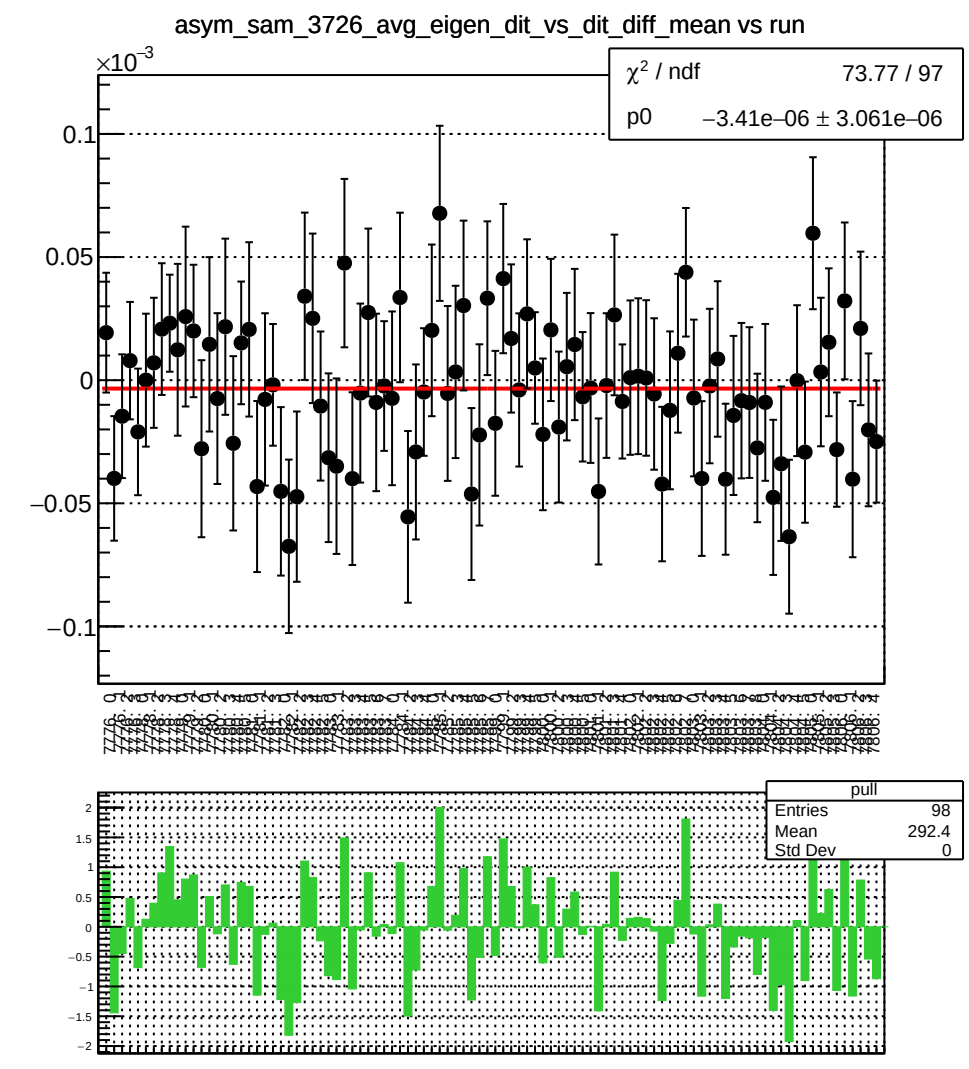

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.8 / 97
p0 0.1676 ± 0.06453
pull
Entries 98
Mean −573.4
Std Dev 0
pull1D
Entries 98
Mean 0.006906
Std Dev 0.9191

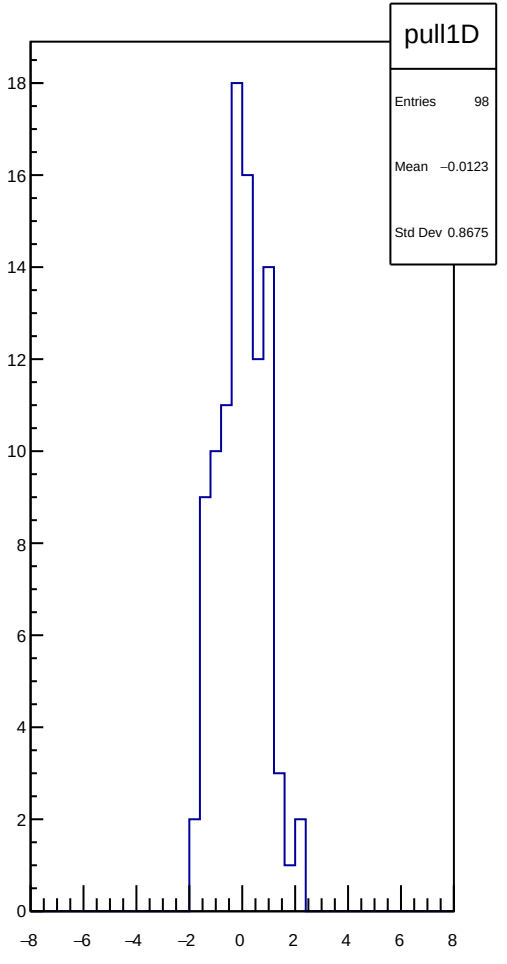

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.952e+04 / 97
p0 62.61 ± 0.04563
220
200
180
160
140
120
100
80
60
40

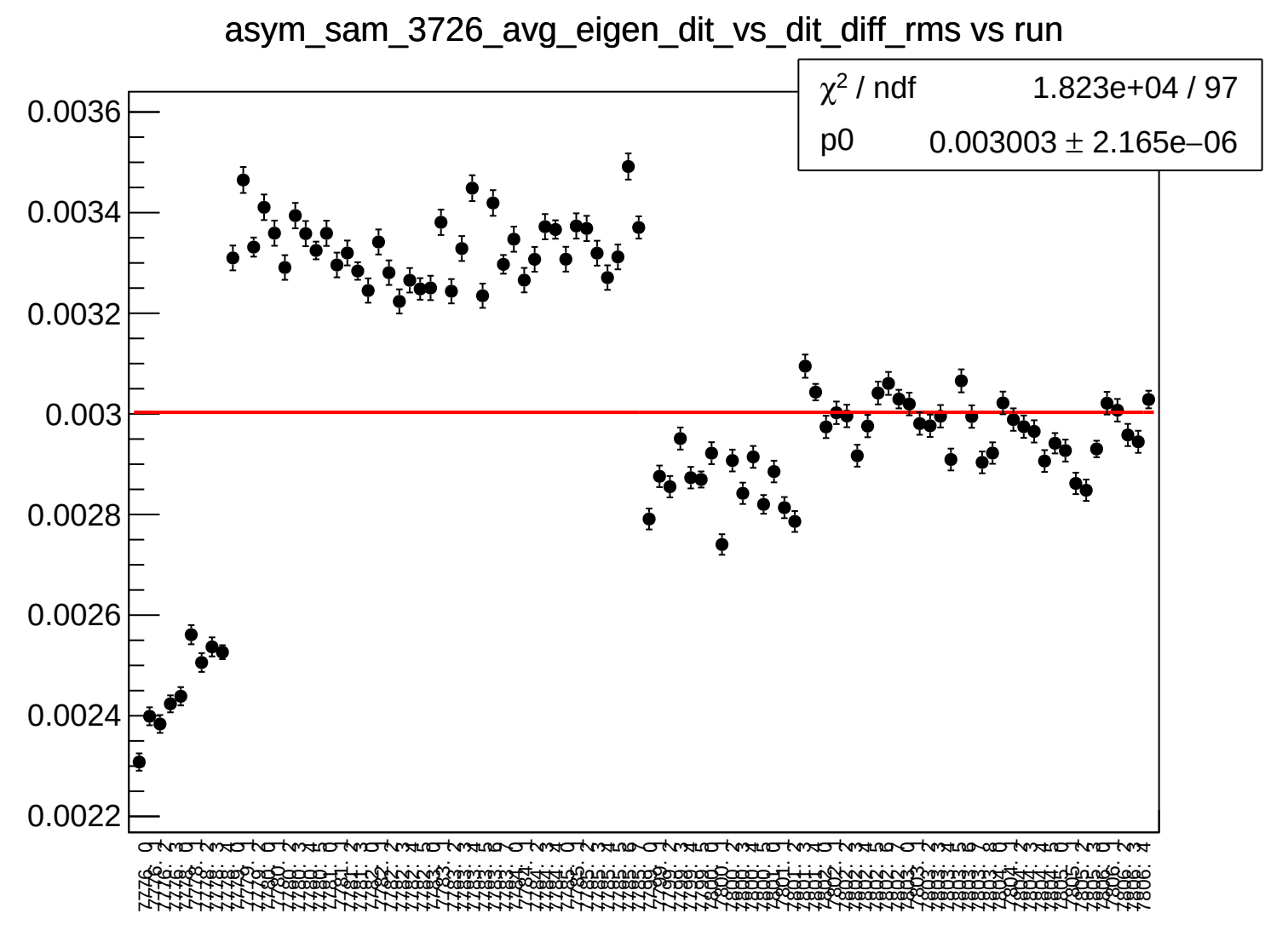

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.8 / 97
p0 0.1676 ± 0.06453
pull
Entries 98
Mean −573.4
Std Dev 0

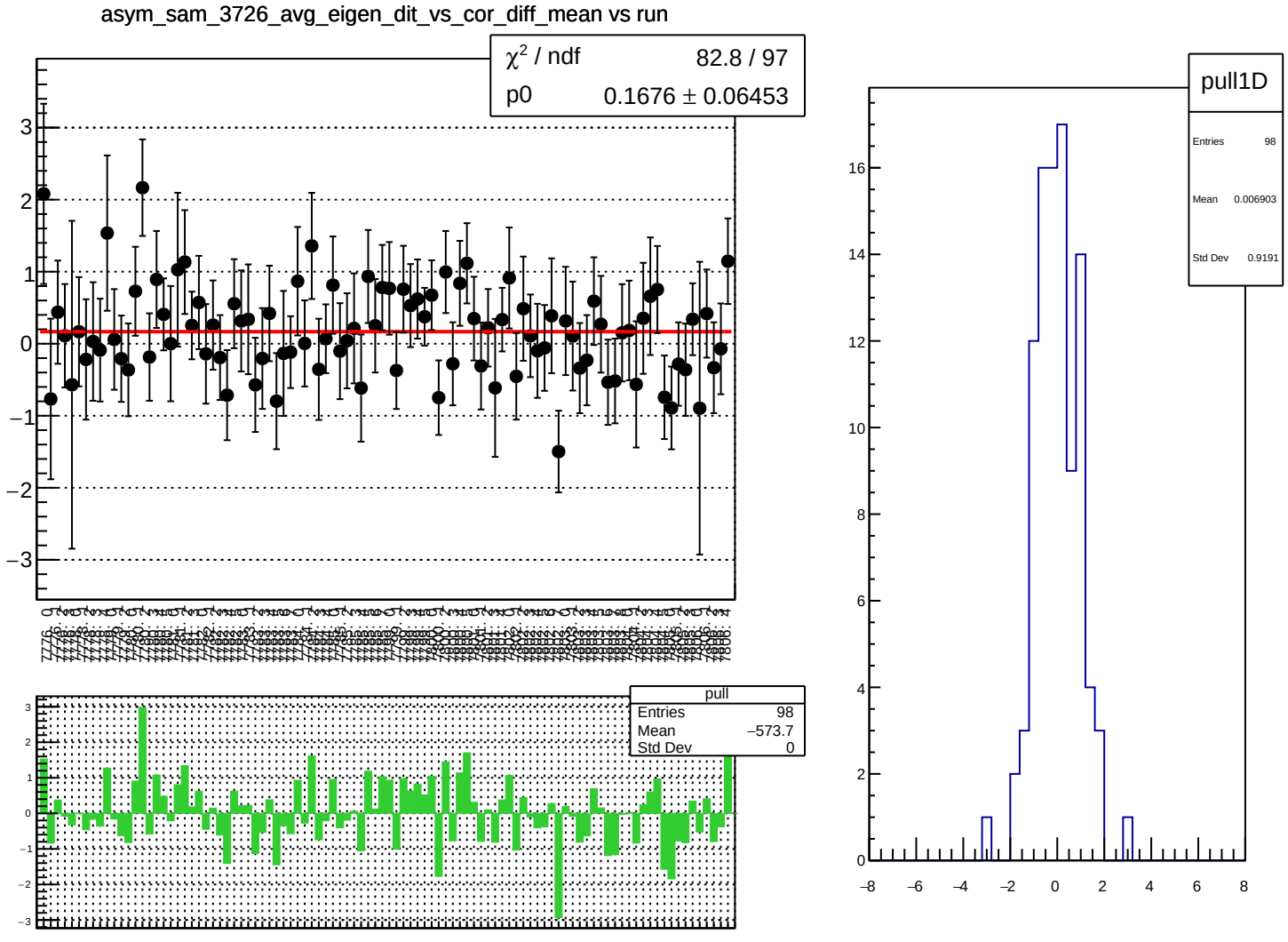

pull1D
Entries 98
Mean 0.006906
Std Dev 0.9191

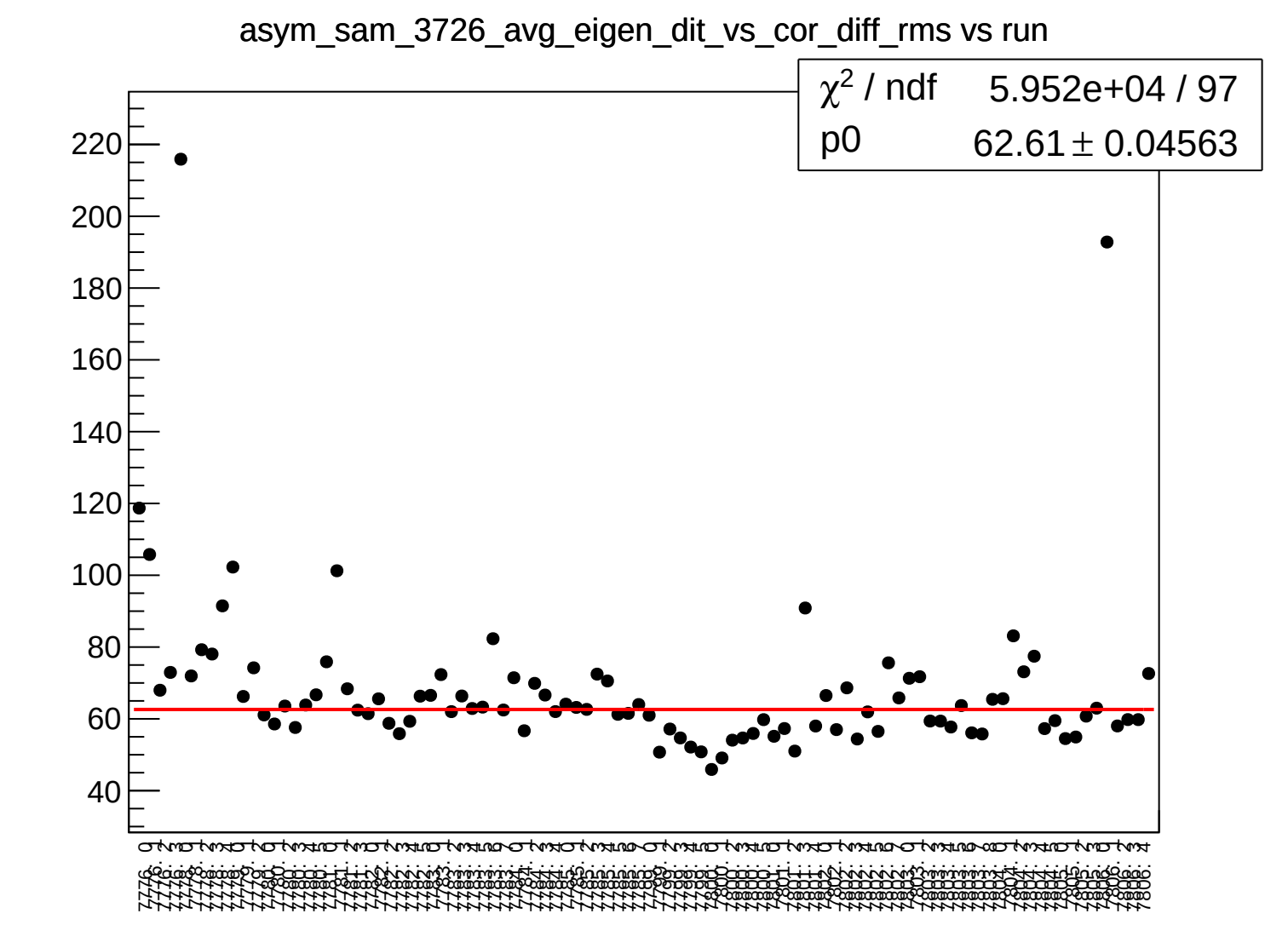

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.952e+04 / 97
p0 62.61 ± 0.04563
220
200
180
160
140
120
100
80
60
40

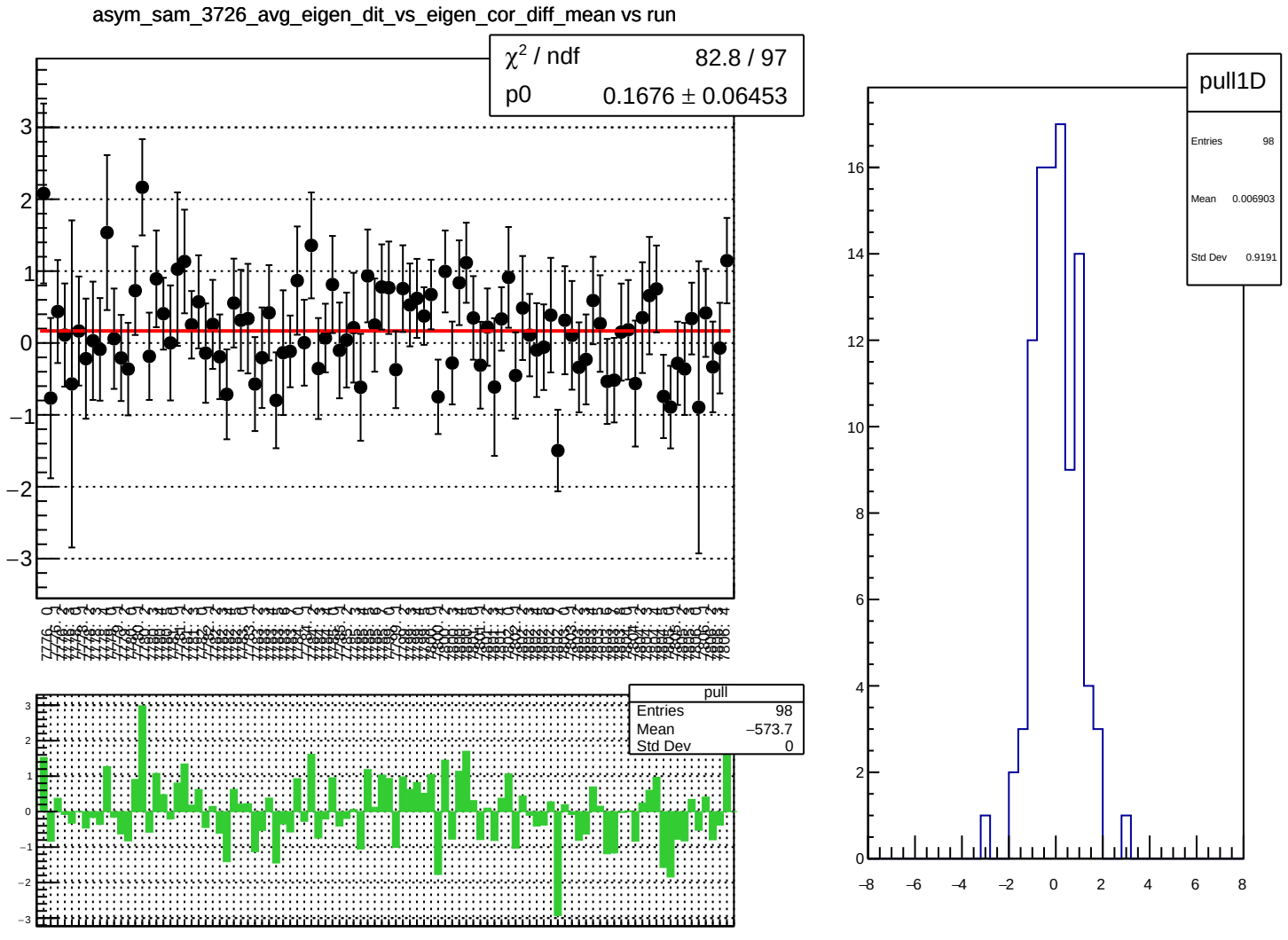

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.77 / 97
p0 −3.41e−06 ± 3.061e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 98
Mean 292.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

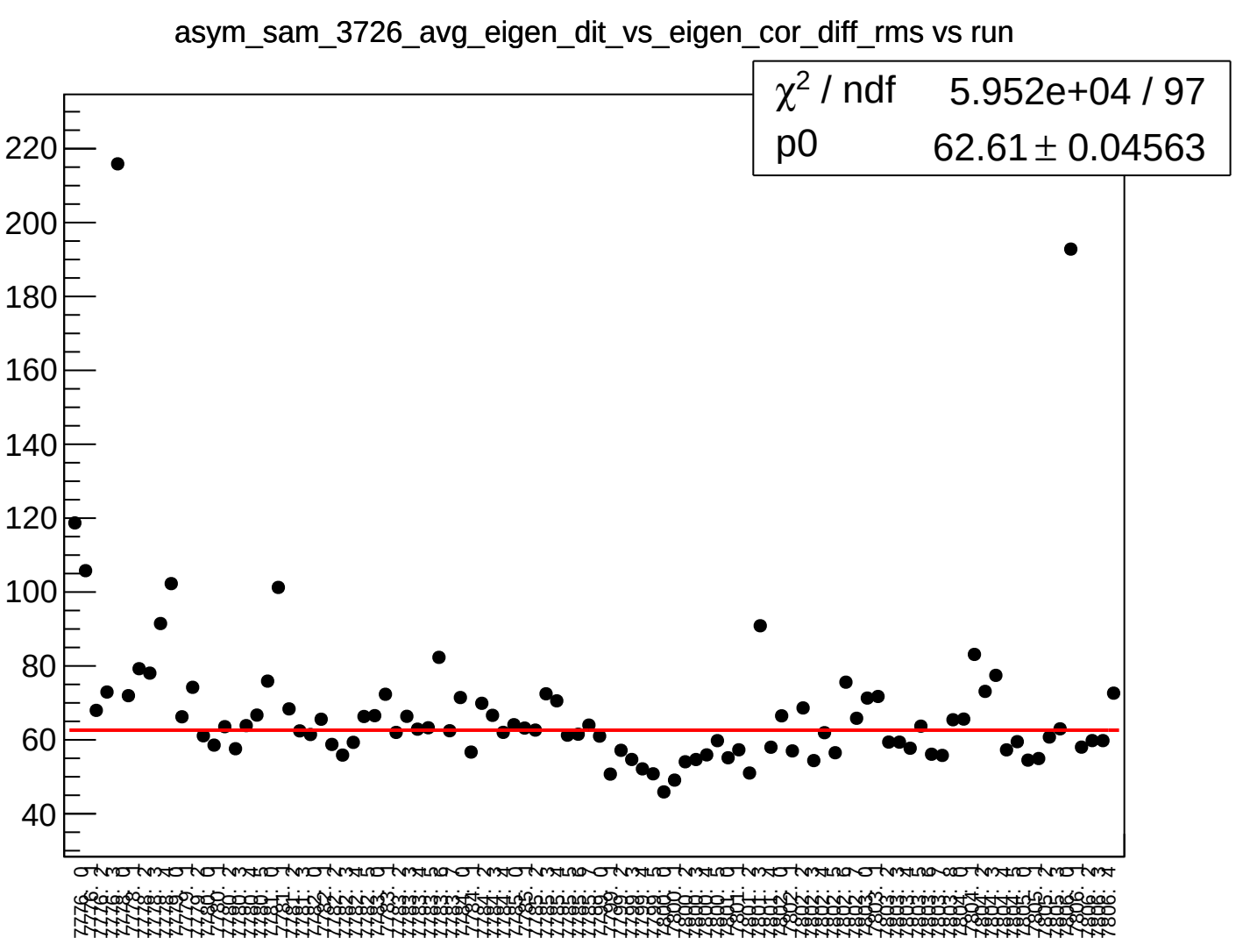

pull1D
Entries 98
Mean −0.0123
Std Dev 0.8675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

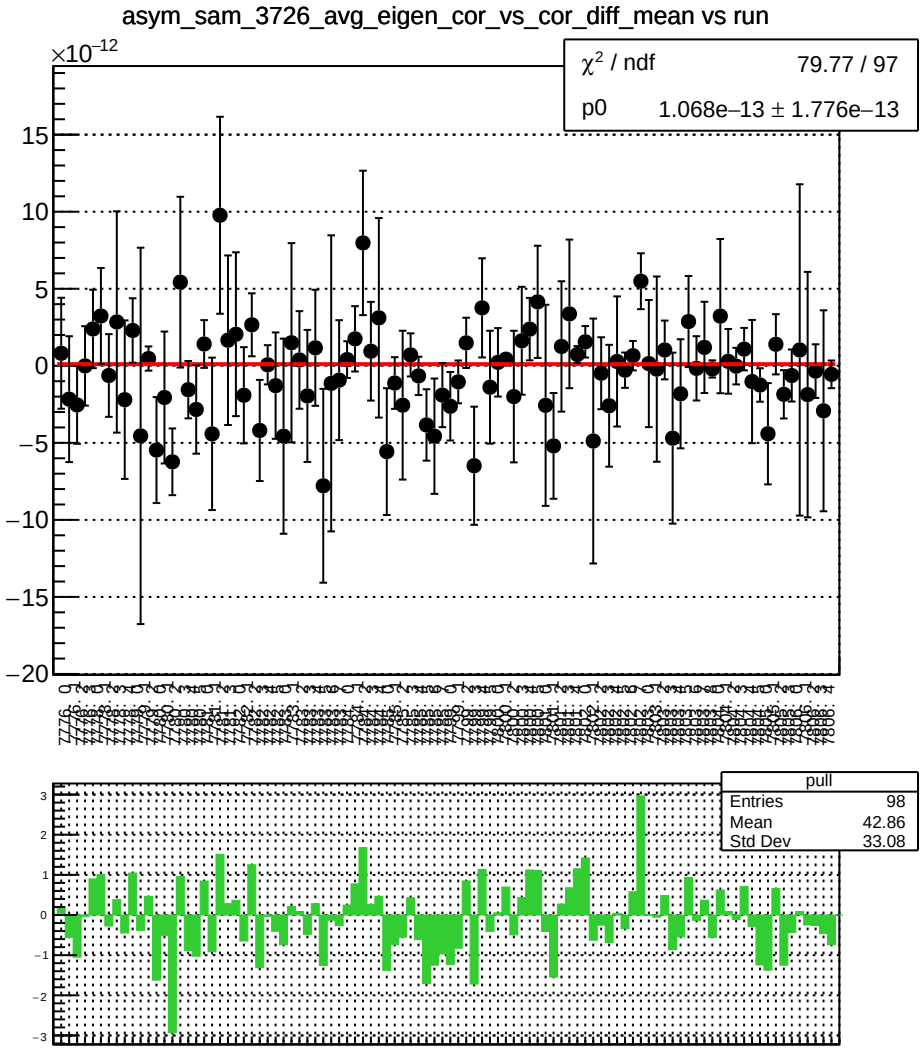

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.823e+04 / 97
p0 0.003003 ± 2.165e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

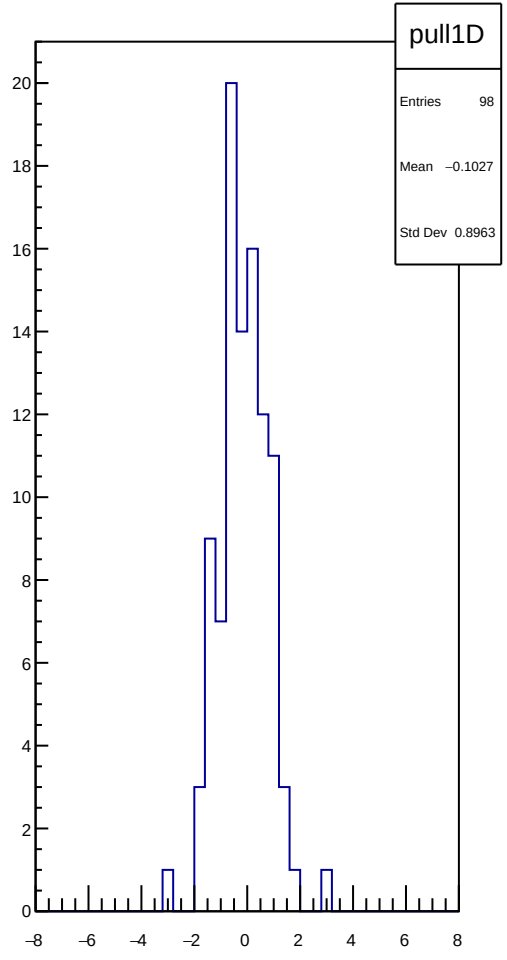

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.8 / 97
p0 0.1676 ± 0.06453
pull
Entries 98
Mean −573.7
Std Dev 0
pull1D
Entries 98
Mean 0.006903
Std Dev 0.9191

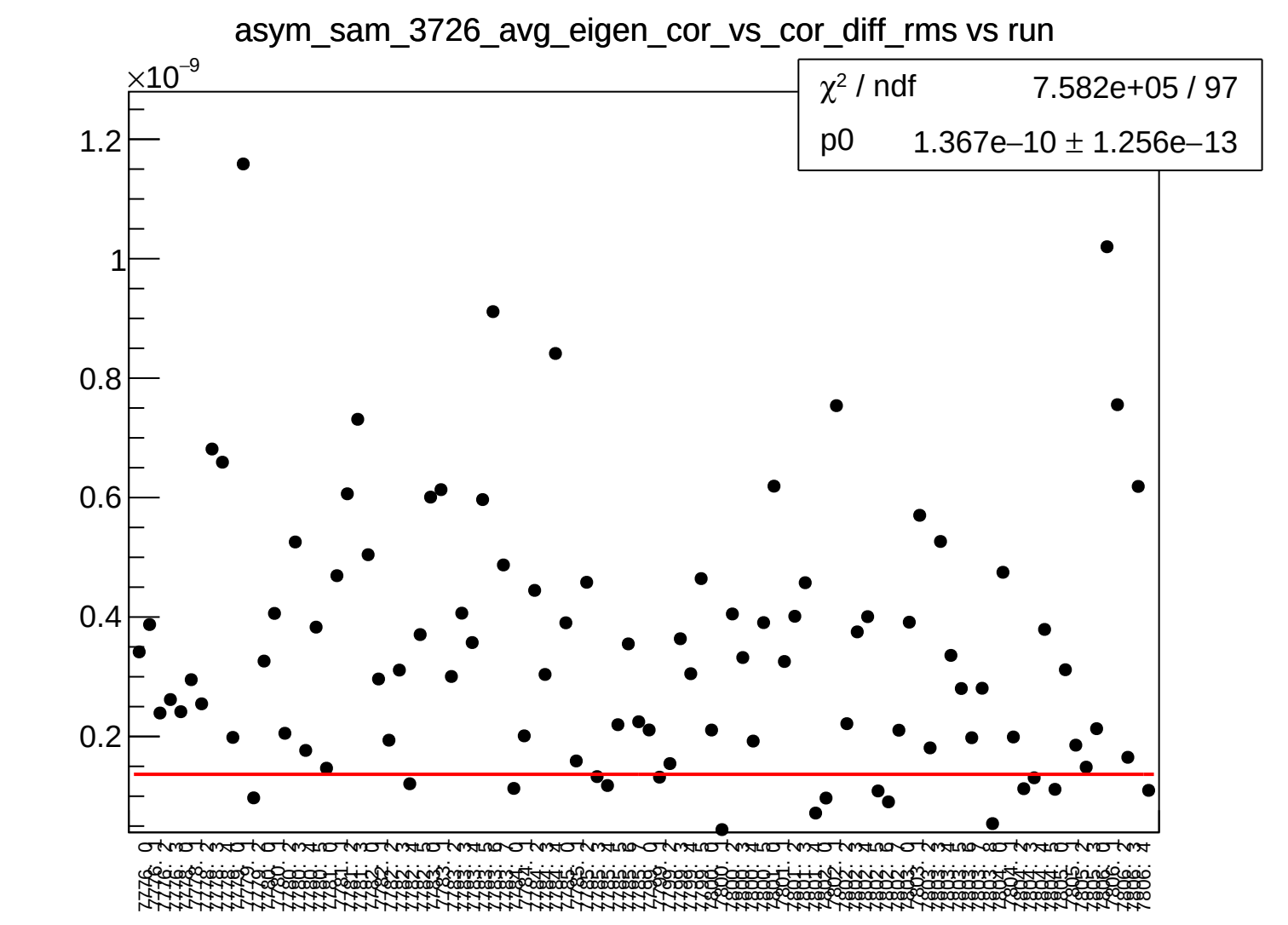

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.952e+04 / 97
p0 62.61 ± 0.04563
220
200
180
160
140
120
100
80
60
40

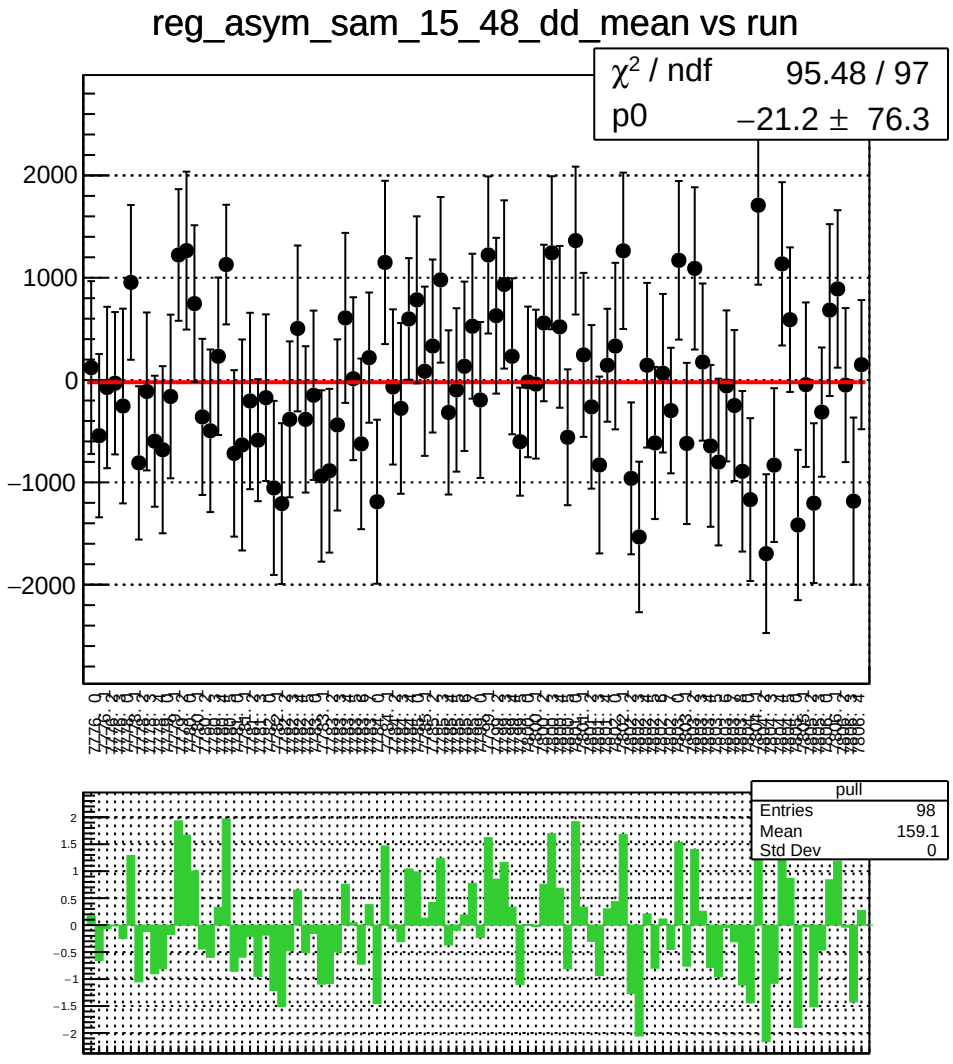

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.8 / 97
p0 0.1676 ± 0.06453
pull
Entries 98
Mean −573.7
Std Dev 0
pull1D
Entries 98
Mean 0.006903
Std Dev 0.9191

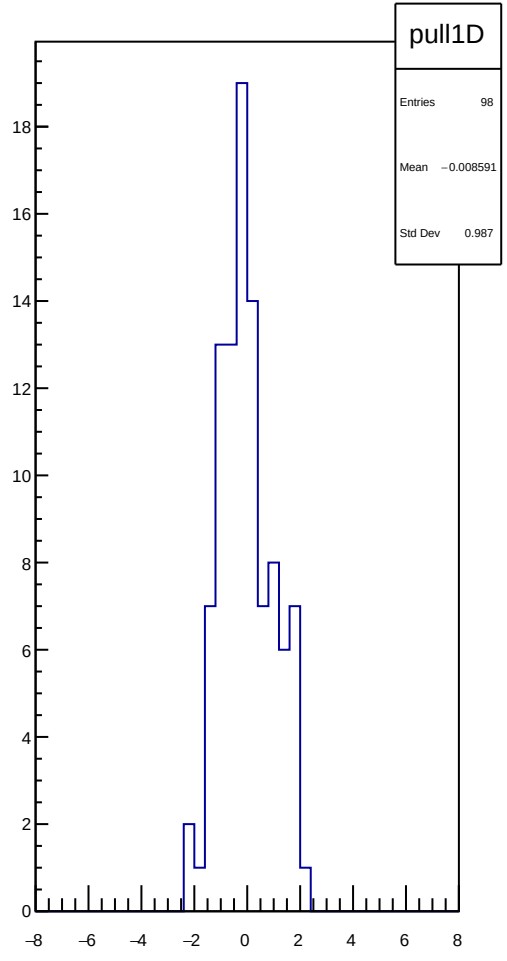

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.952e+04 / 97
p0 62.61 ± 0.04563
220
200
180
160
140
120
100
80
60
40

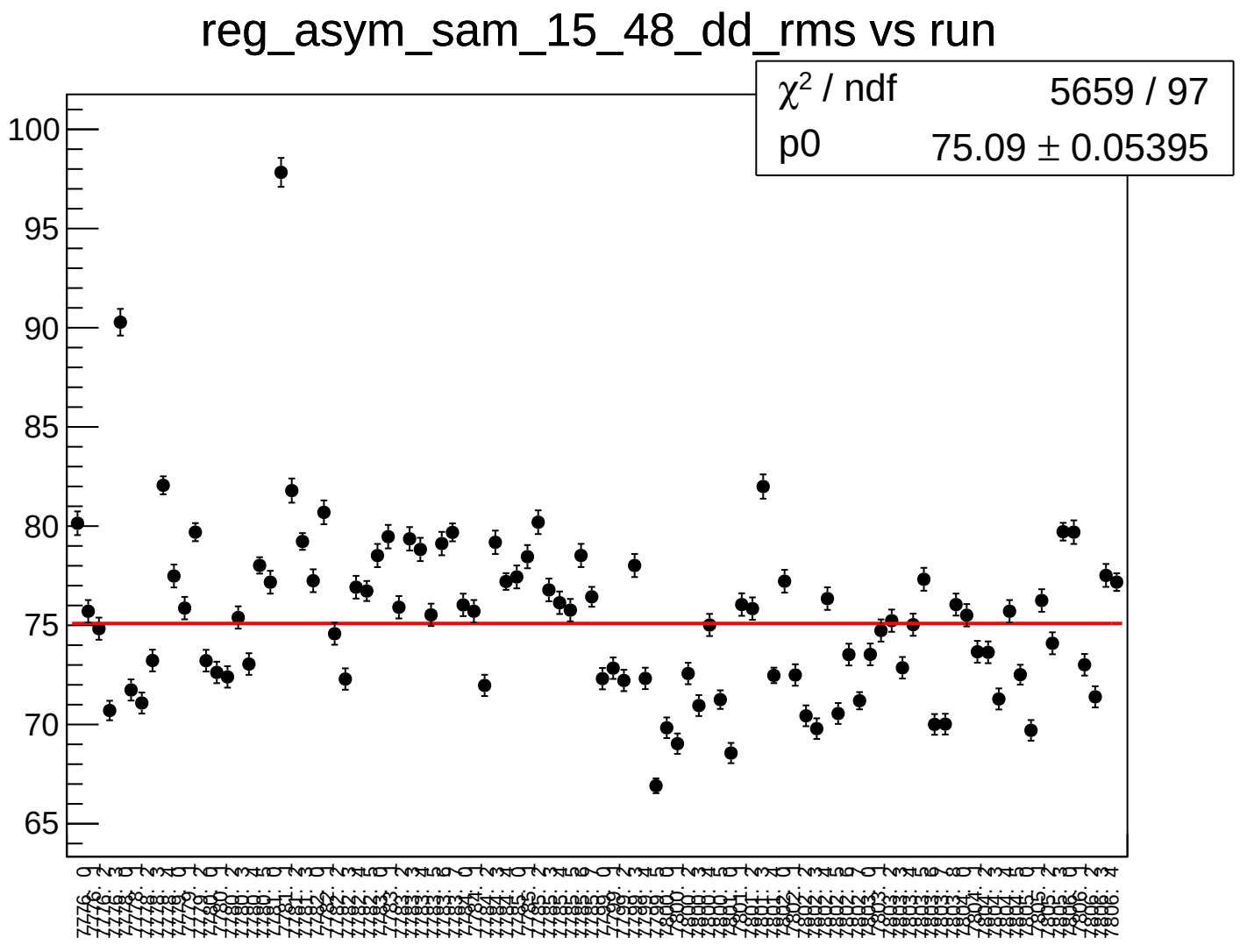

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.77 / 97
p0 1.068e−13 ± 1.776e−13
pull
Entries 98
Mean 42.86
Std Dev 33.08

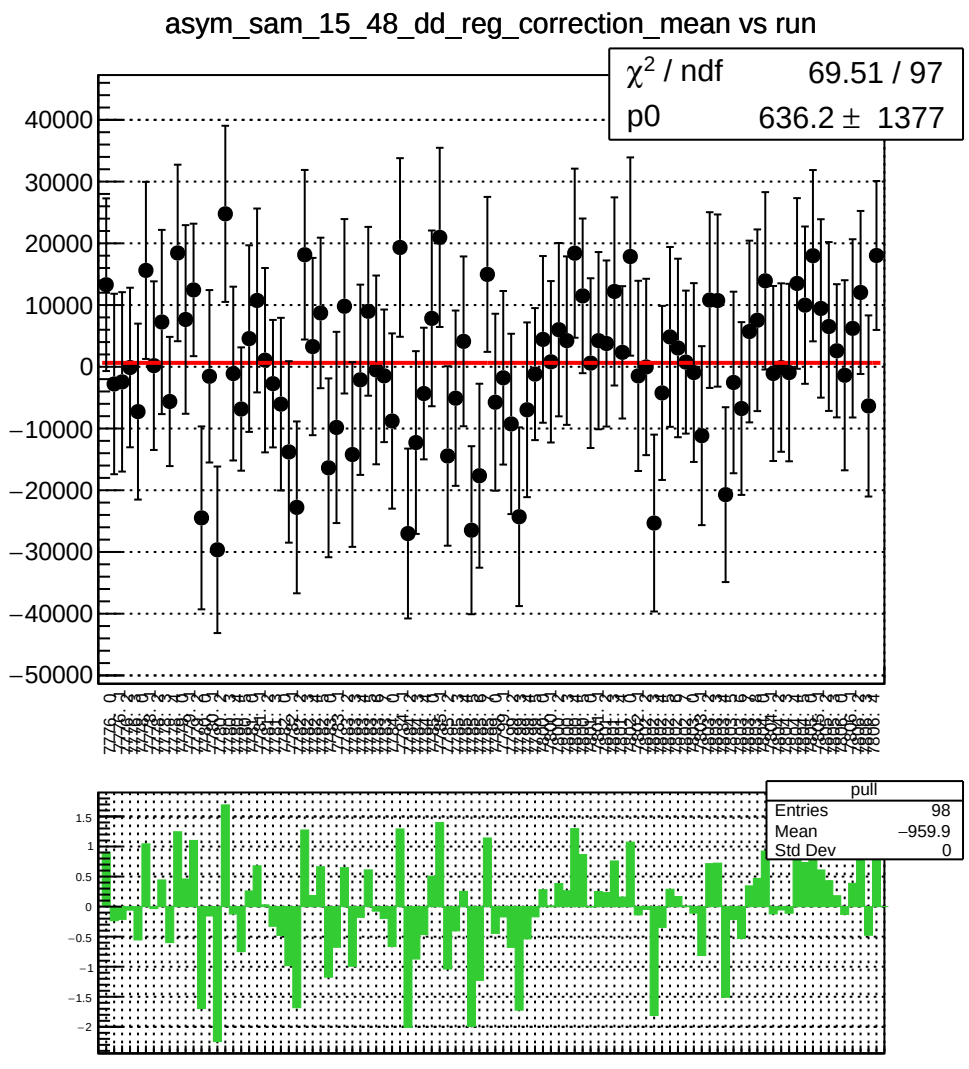

pull1D
Entries 98
Mean −0.1027
Std Dev 0.8963

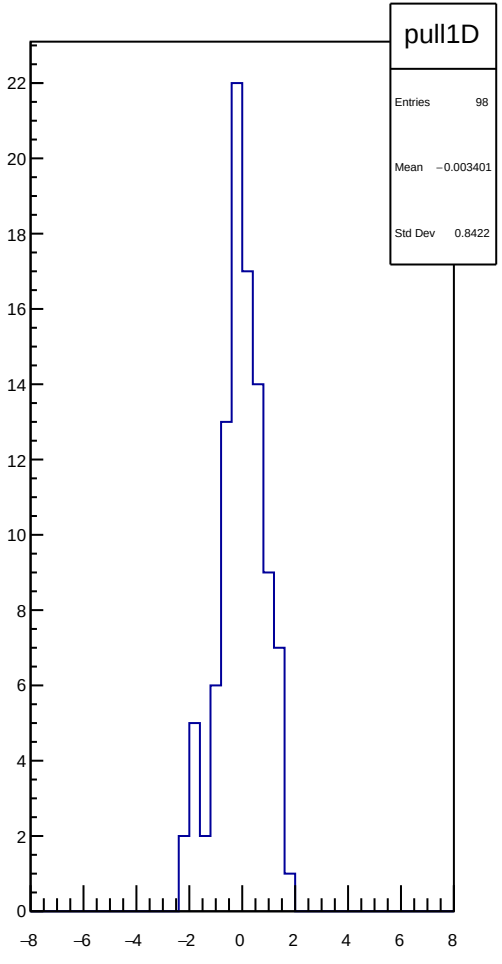

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.582e+05 / 97
p0 1.367e−10 ± 1.256e−13
1.2
1
0.8
0.6
0.4
0.2

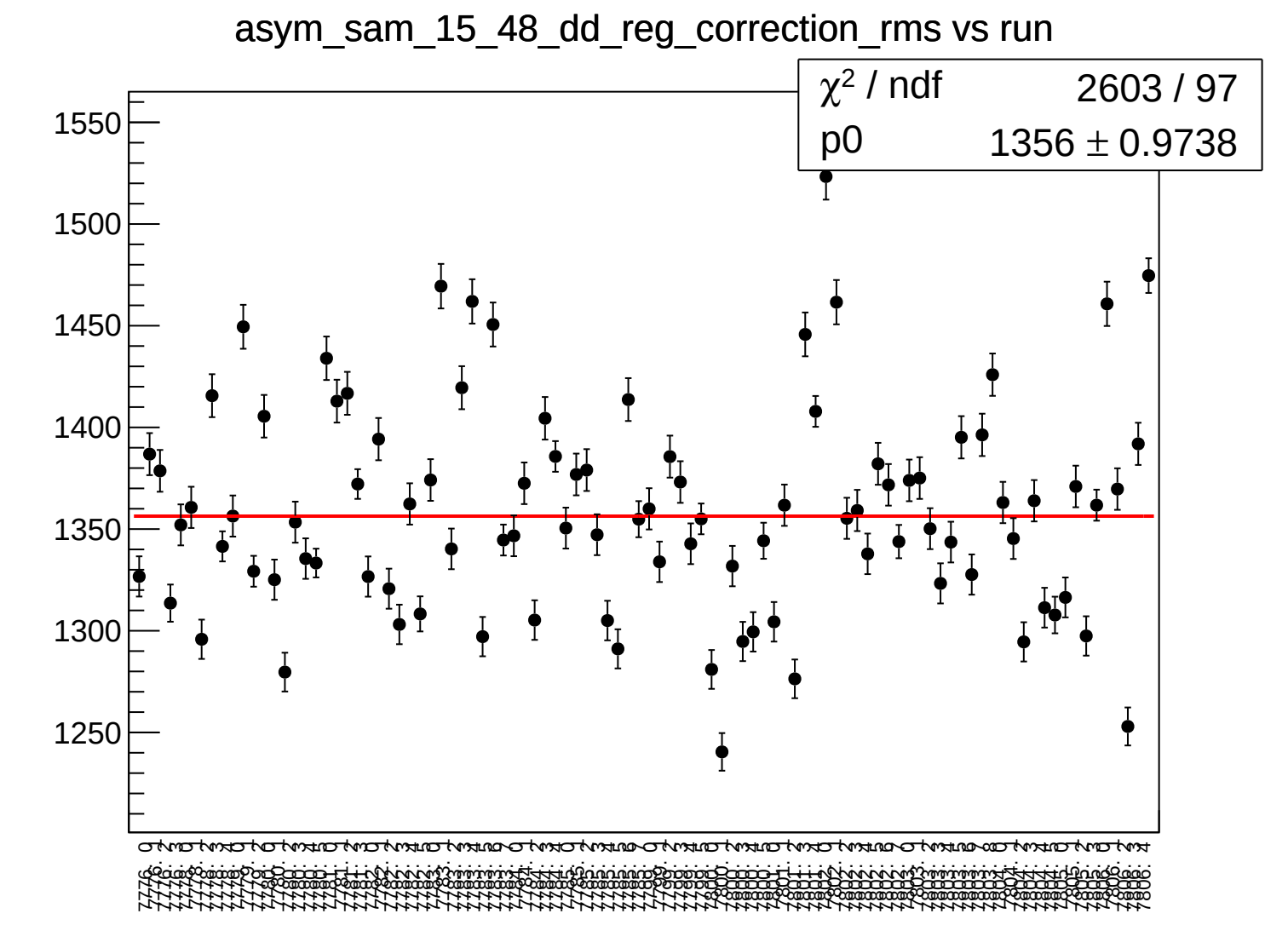

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 95.48 / 97
p0 −21.2 ± 76.3
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 159.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

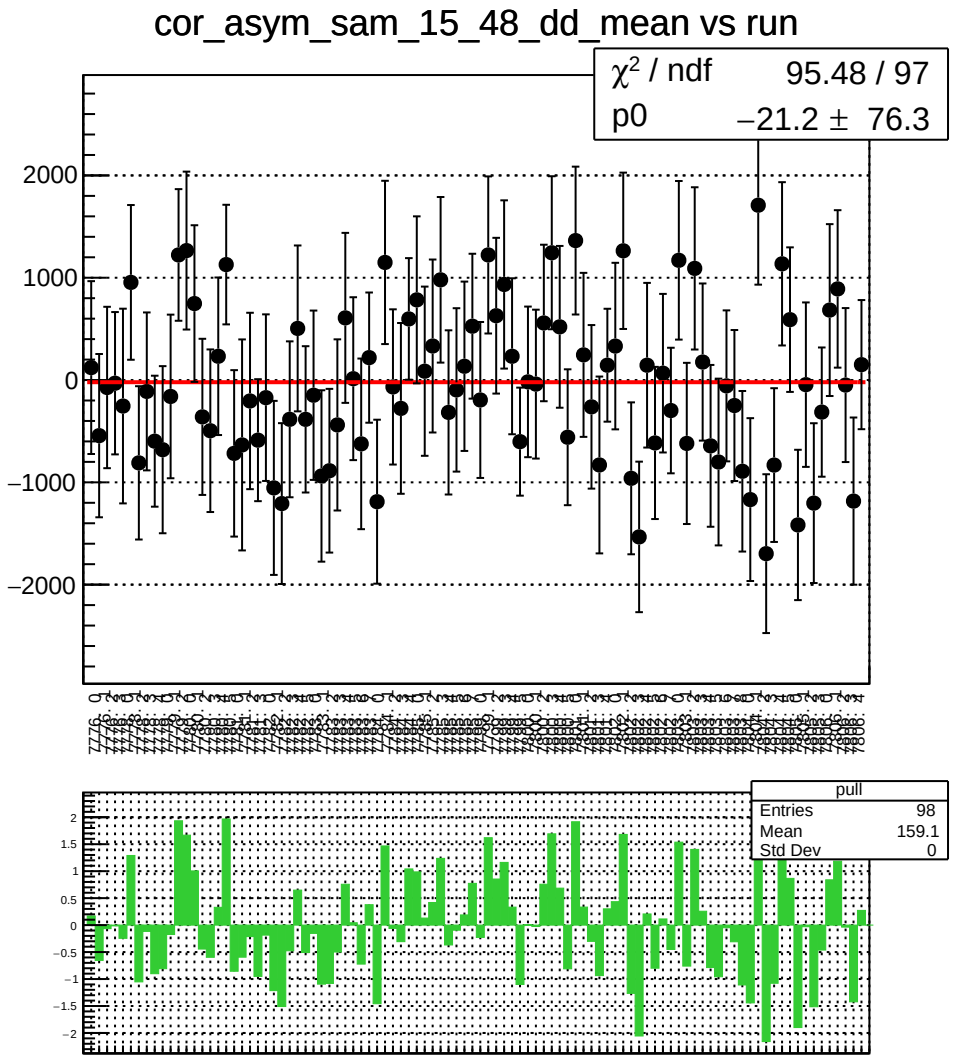

pull1D
Entries 98
Mean −0.008591
Std Dev 0.987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

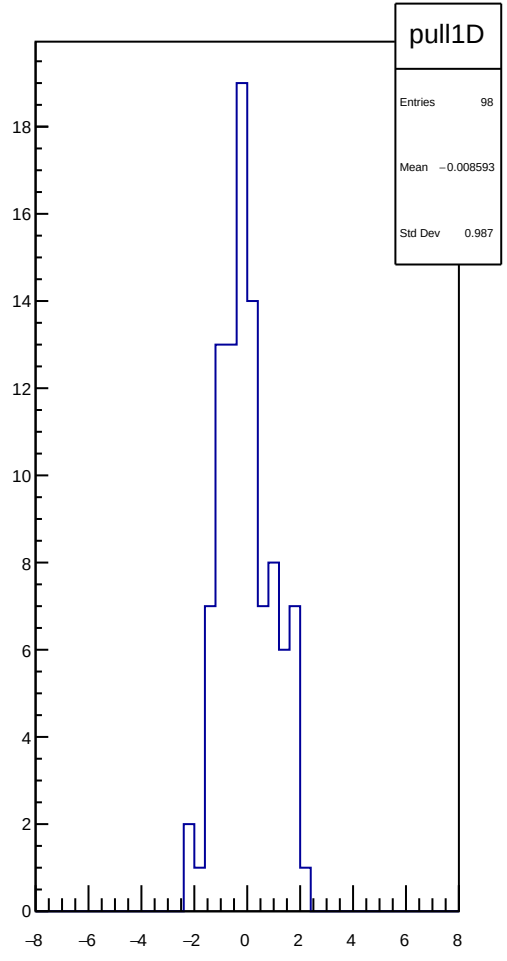

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 5659 / 97
p0 75.09 ± 0.05395
100
95
90
85
80
75
70
65

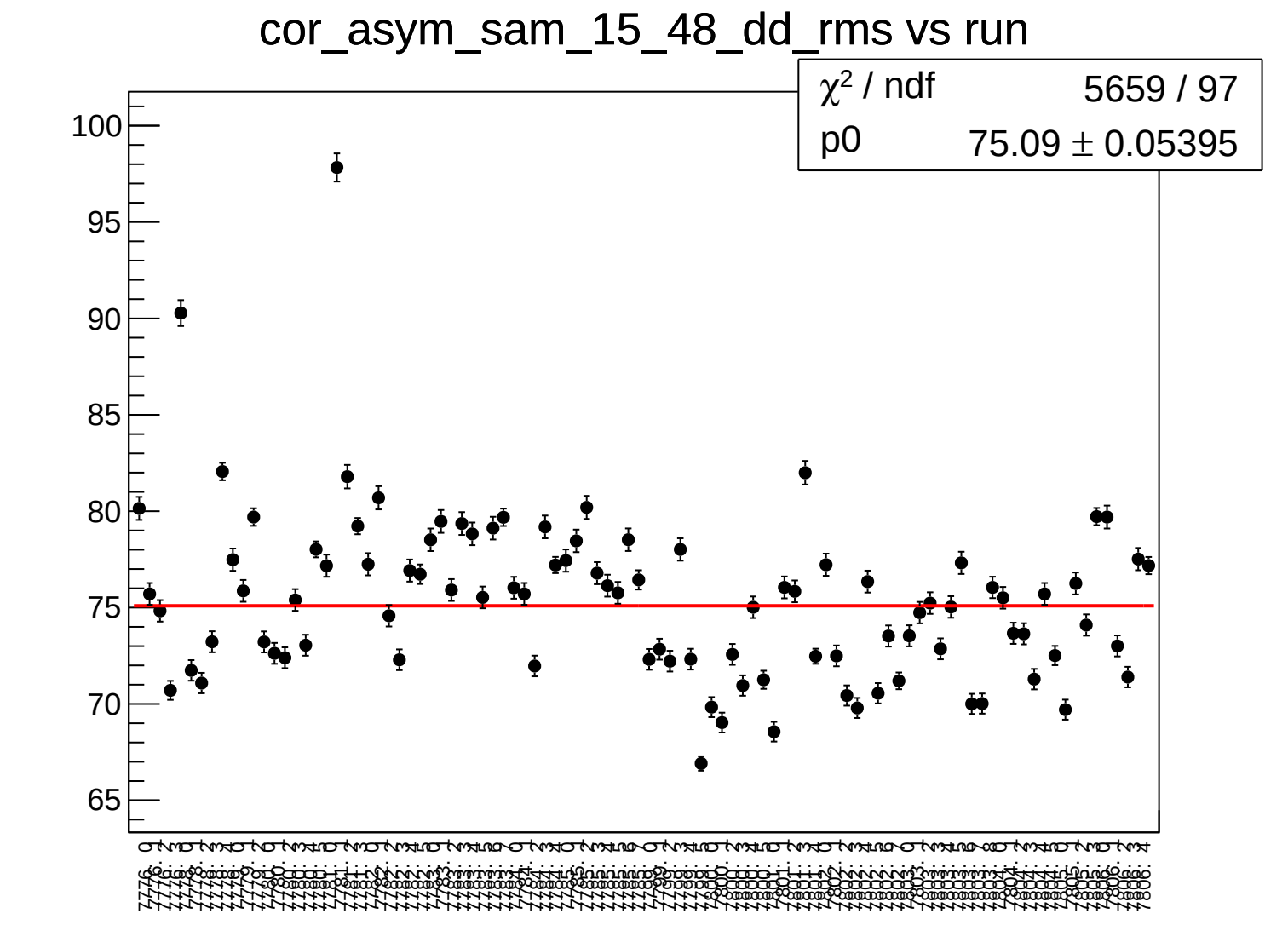

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 69.51 / 97
p0 636.2 ± 1377
pull
Entries 98
Mean −959.9
Std Dev 0

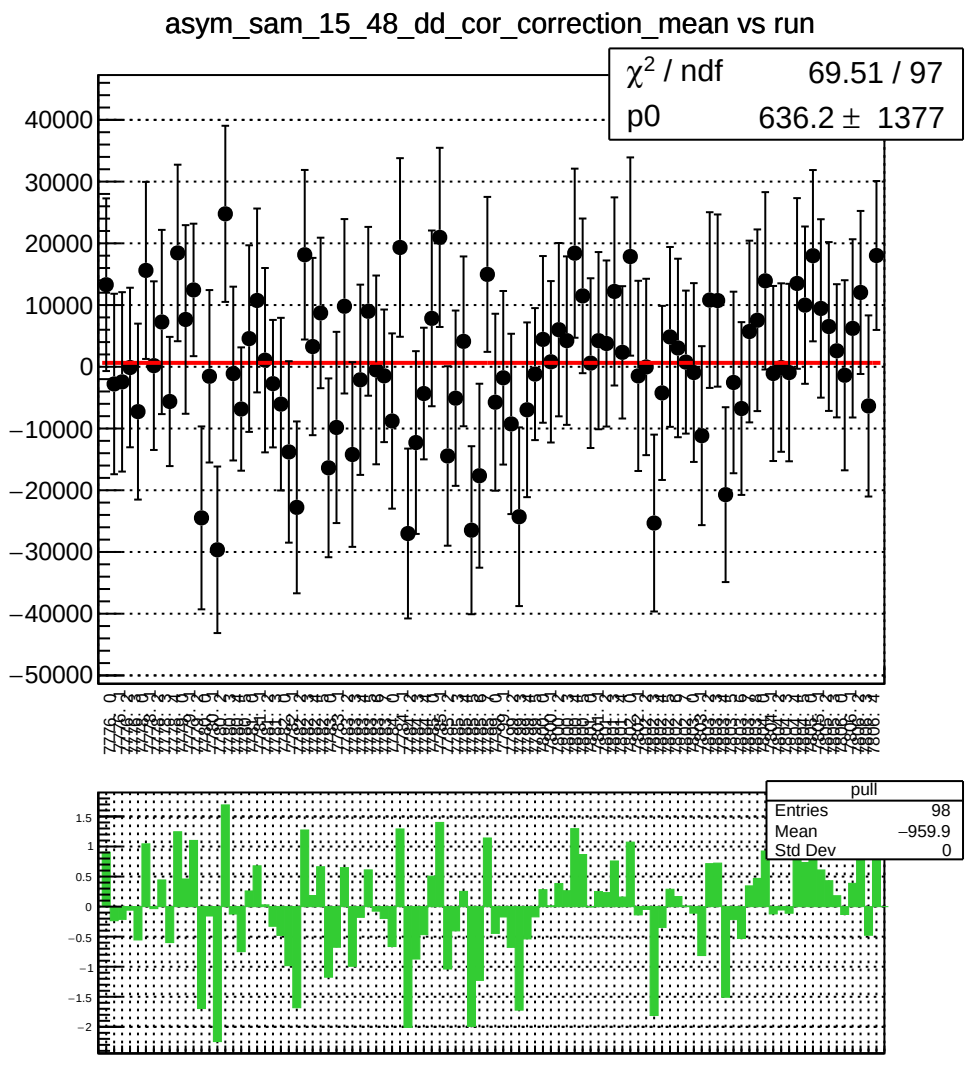

pull1D
Entries 98
Mean −0.003401
Std Dev 0.8422

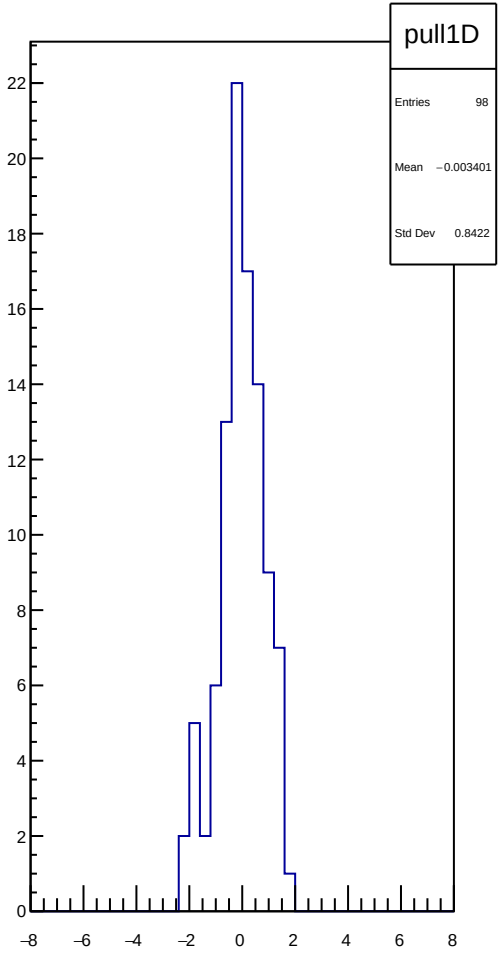

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 2603 / 97
p0 1356 ± 0.9738
1550
1500
1450
1400
1350
1300
1250

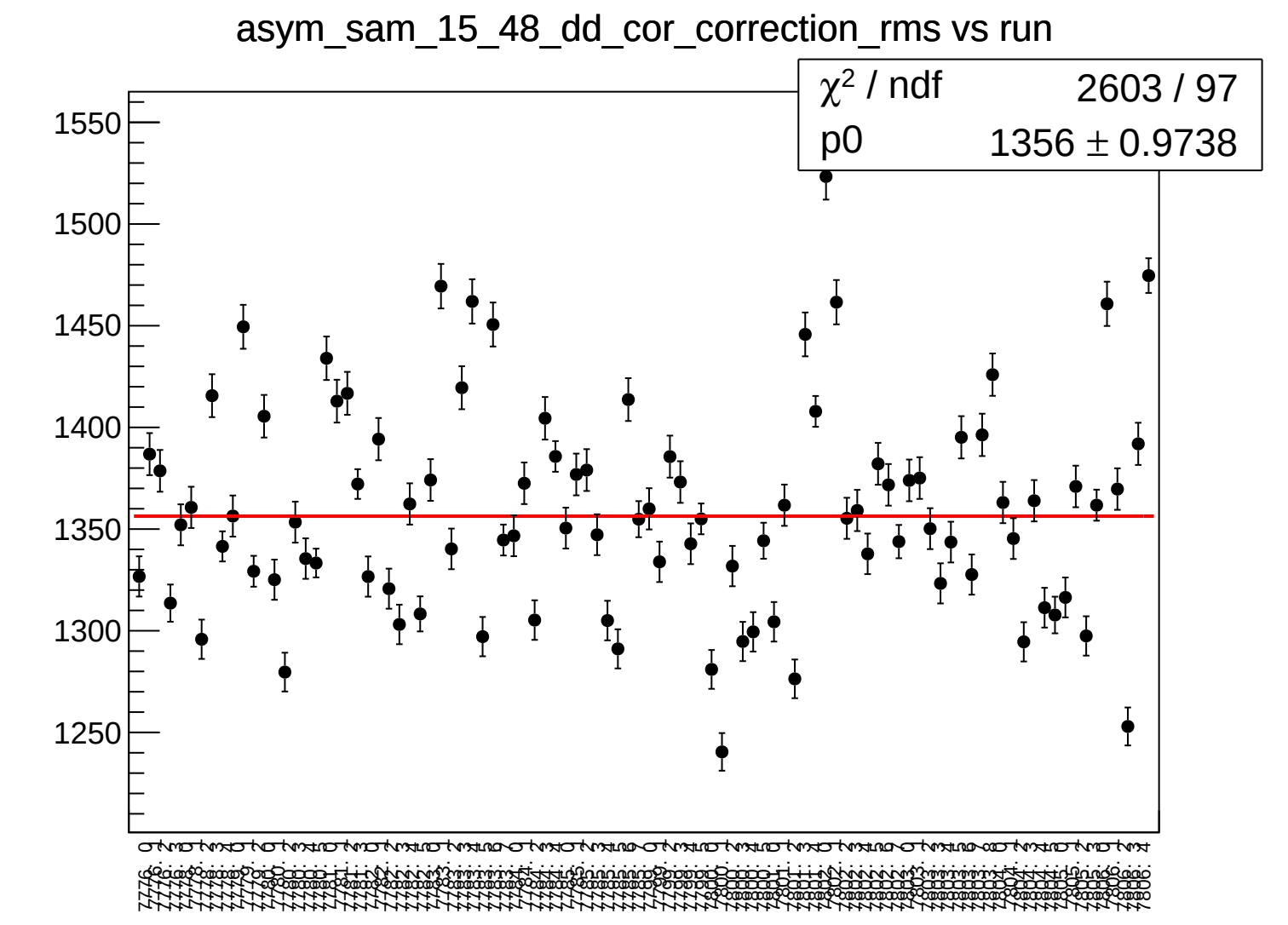

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 95.48 / 97
p0 −21.2 ± 76.3
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 159.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

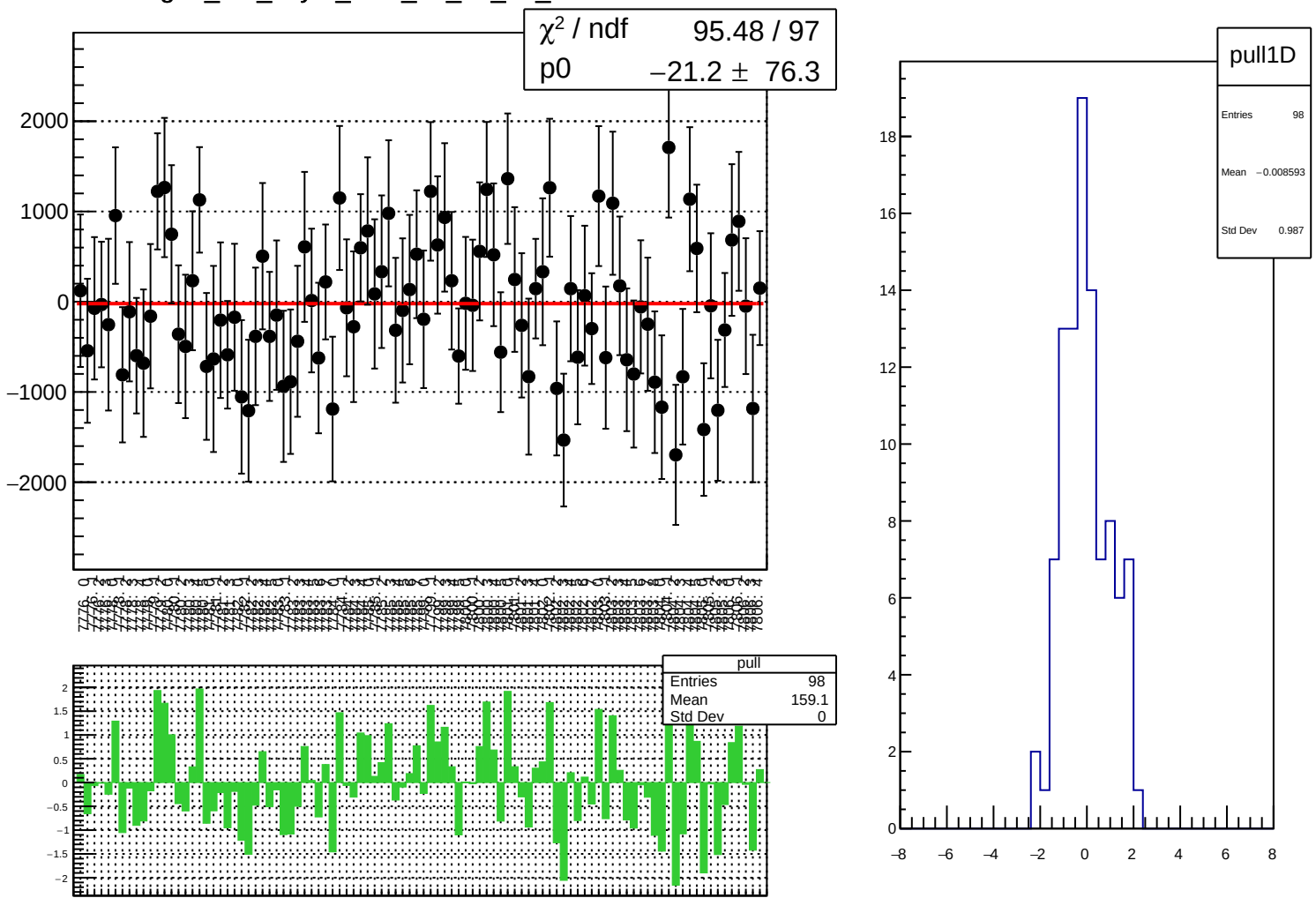

pull1D
Entries 98
Mean −0.008593
Std Dev 0.987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

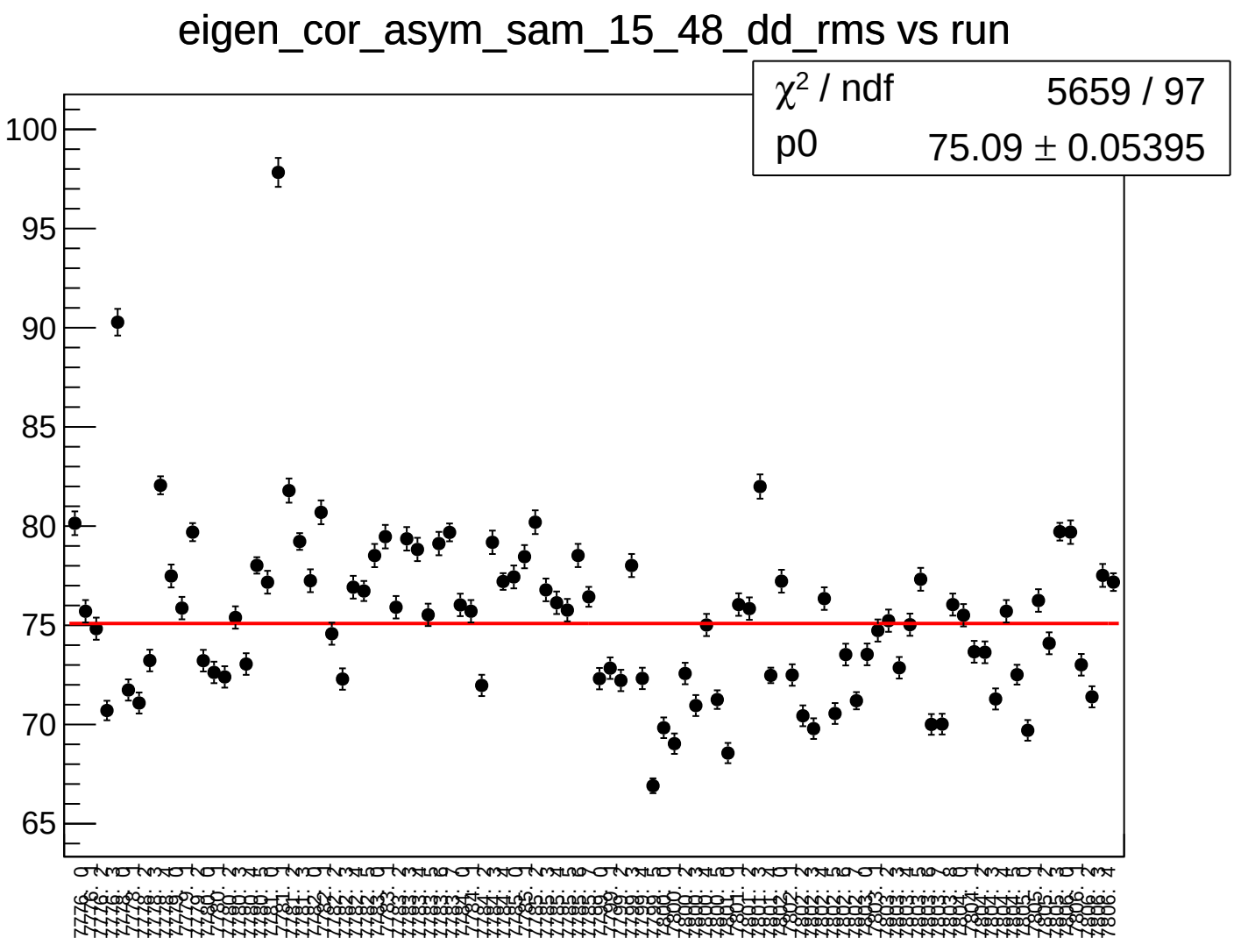

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 5659 / 97
p0 75.09 ± 0.05395
100
95
90
85
80
75
70
65

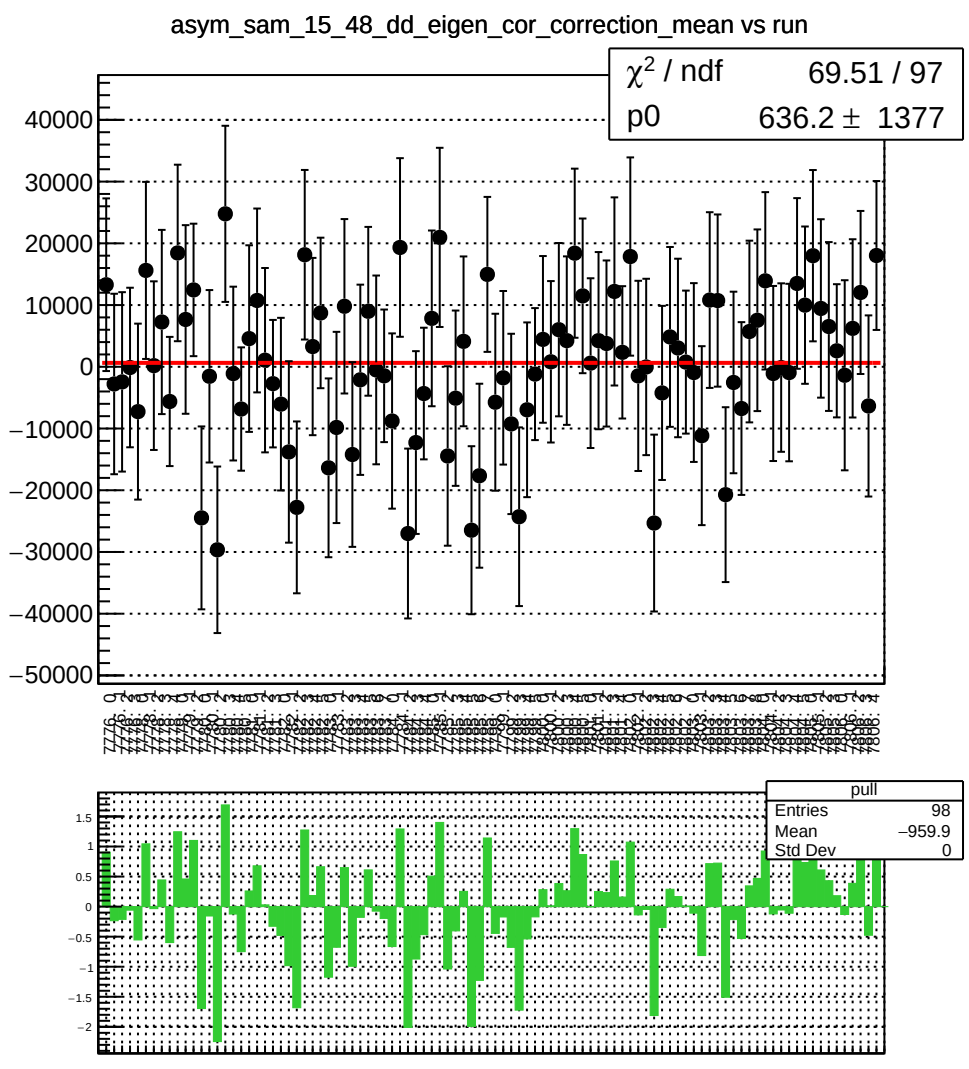

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 69.51 / 97
p0 636.2 ± 1377
pull
Entries 98
Mean −959.9
Std Dev 0

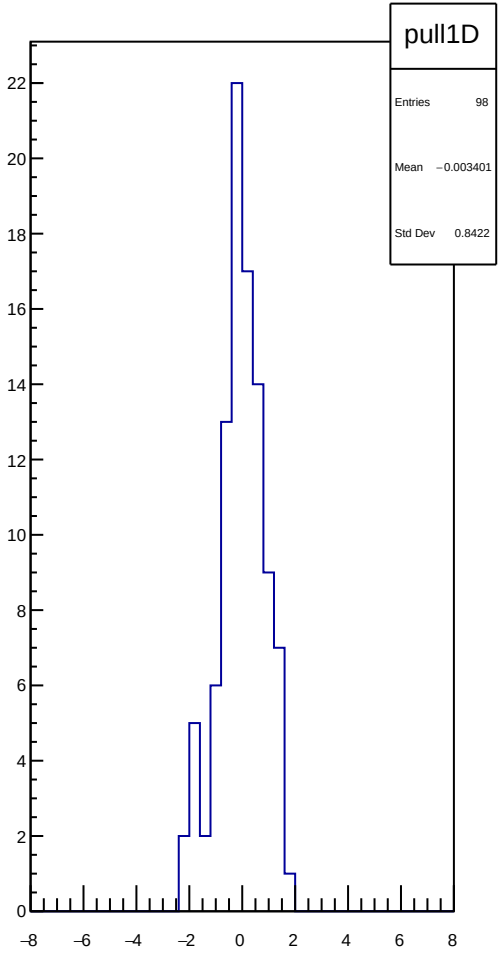

pull1D
Entries 98
Mean −0.003401
Std Dev 0.8422

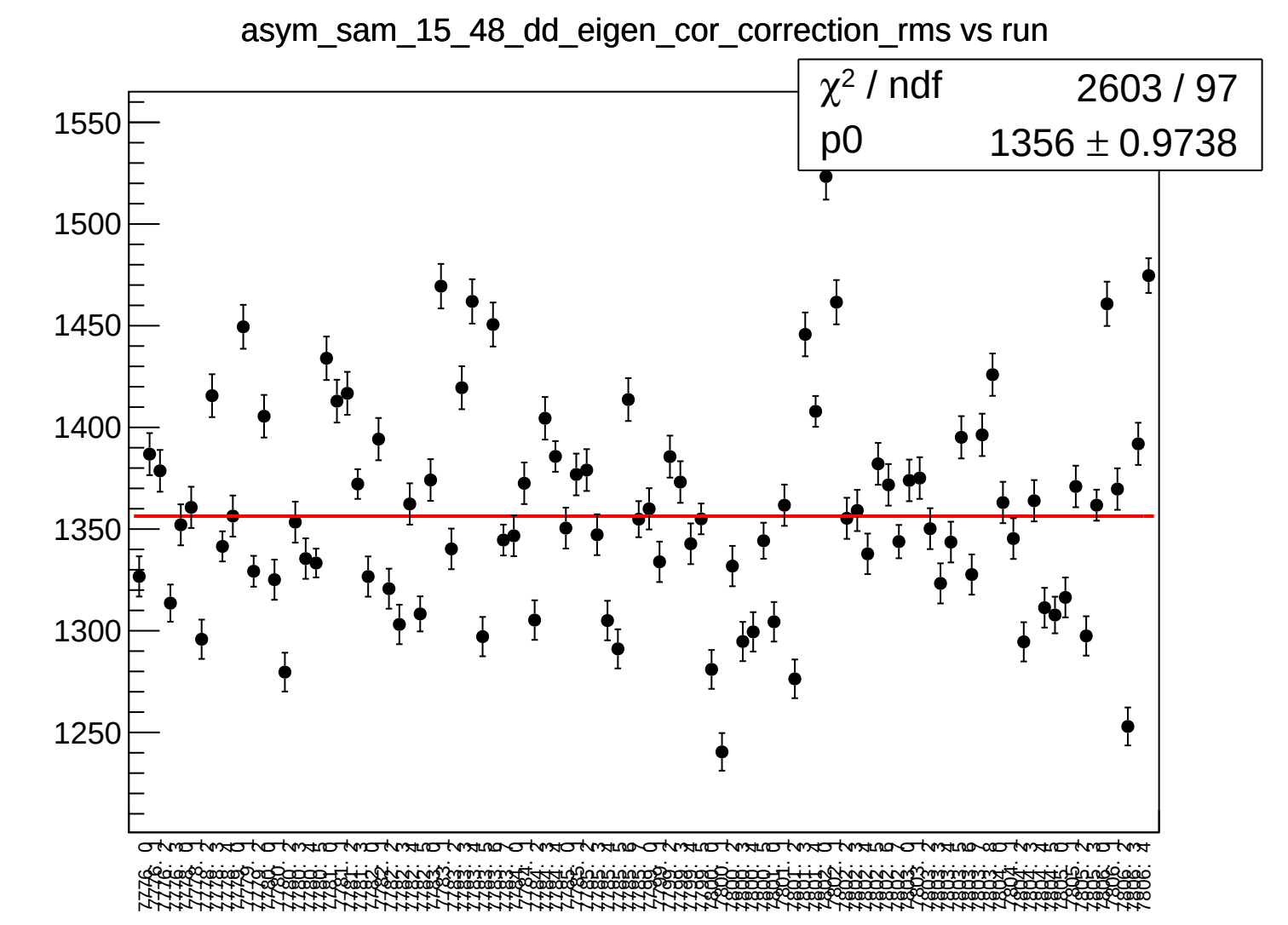

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 2603 / 97
p0 1356 ± 0.9738
1550
1500
1450
1400
1350
1300
1250

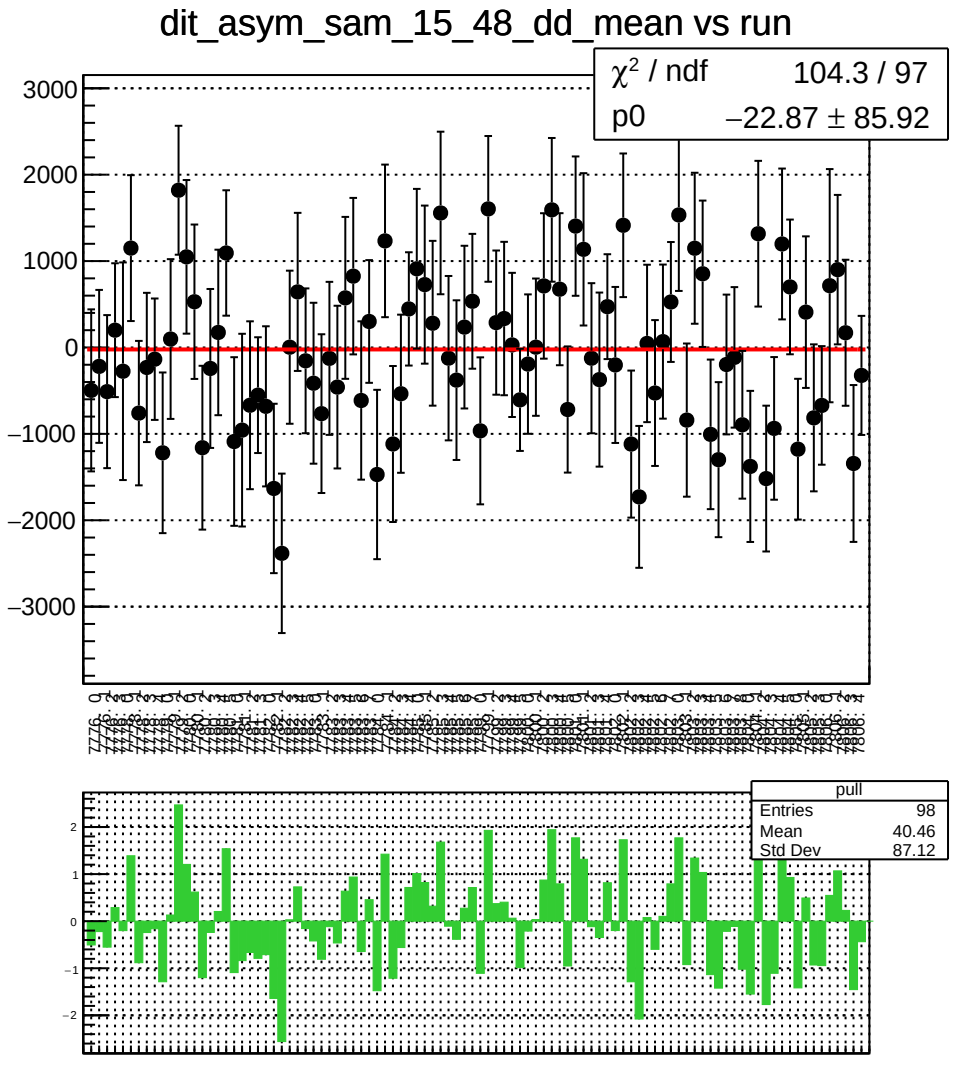

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 95.48 / 97
p0 −21.2 ± 76.3
2000
1000
0
−1000
−2000
pull
Entries 98
Mean 159.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.008593
Std Dev 0.987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

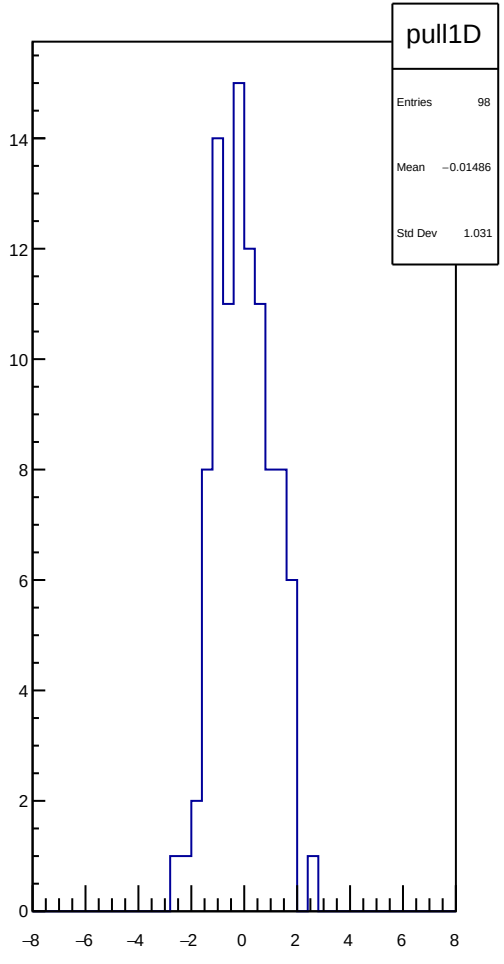

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 5659 / 97
p0 75.09 ± 0.05395
100
95
90
85
80
75
70
65

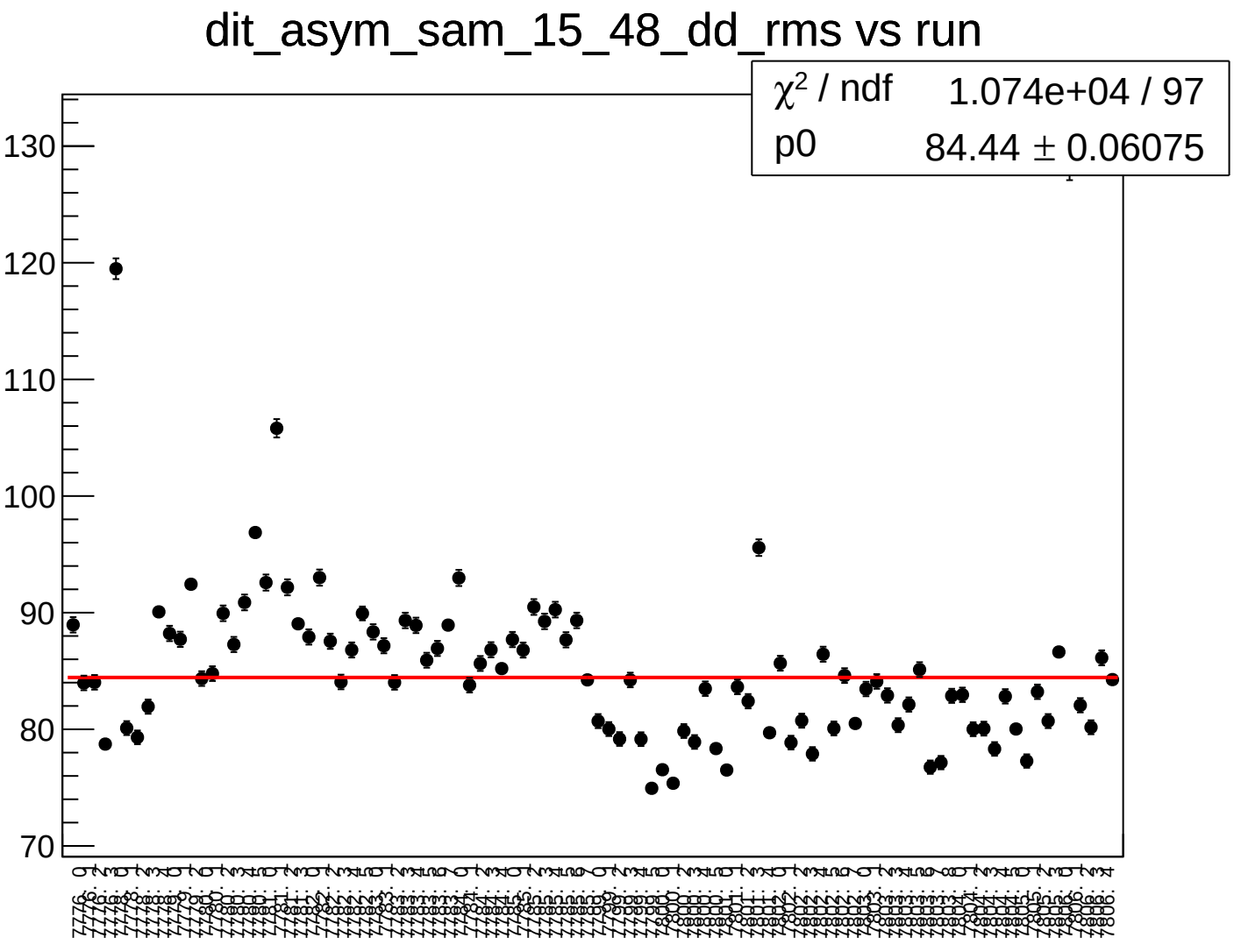

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.51 / 97
p0 636.2 ± 1377
pull
Entries 98
Mean −959.9
Std Dev 0

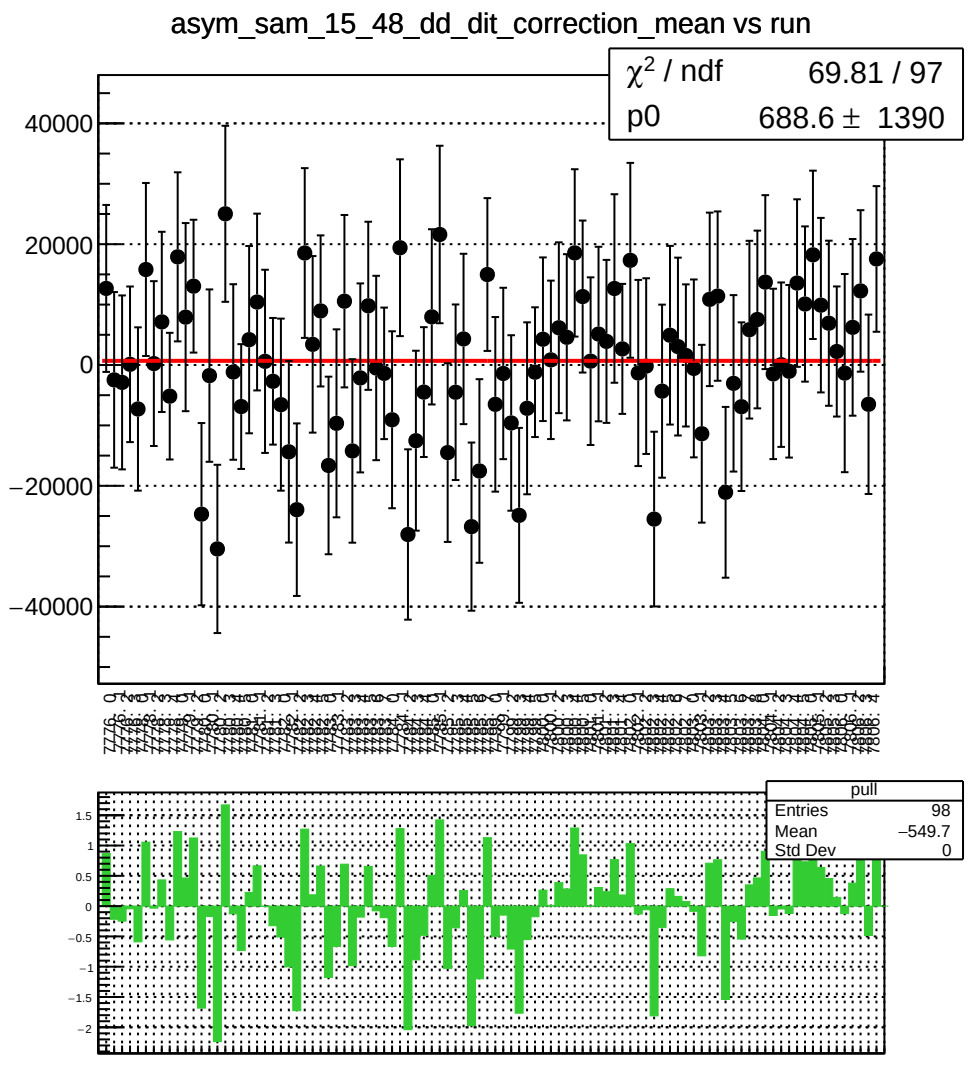

pull1D
Entries 98
Mean −0.003401
Std Dev 0.8422

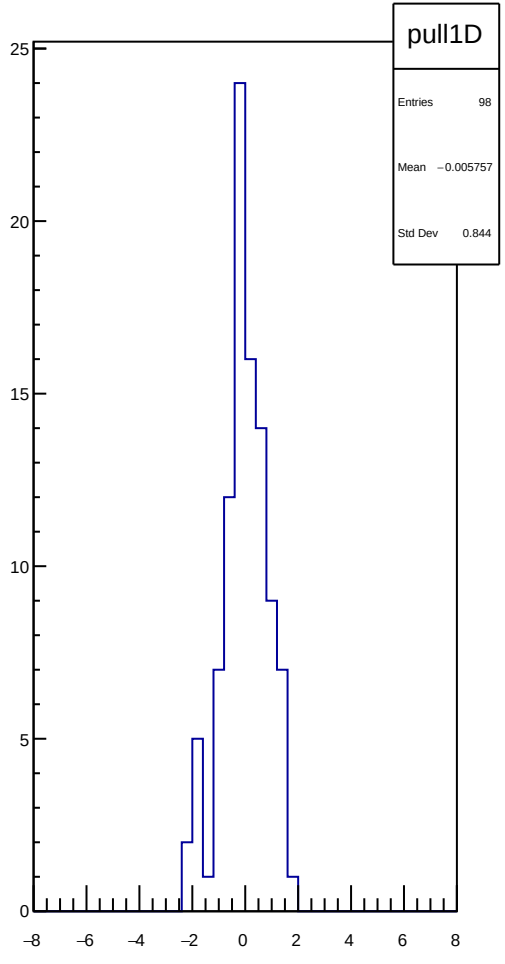

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2603 / 97
p0 1356 ± 0.9738
1550
1500
1450
1400
1350
1300
1250

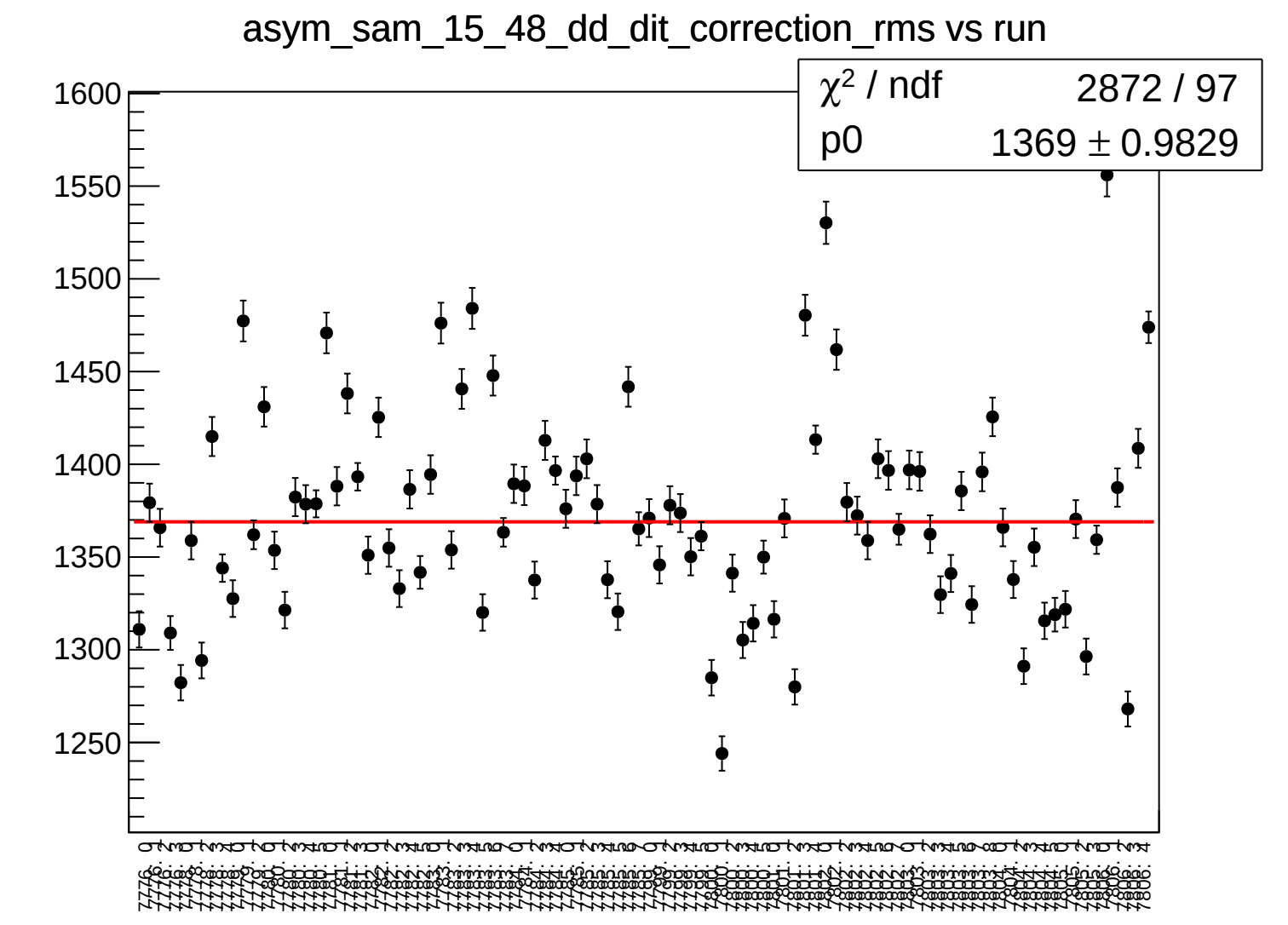

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.3 / 97
p0 −22.87 ± 85.92
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean 40.46
Std Dev 87.12
2
1
0
−1
−2

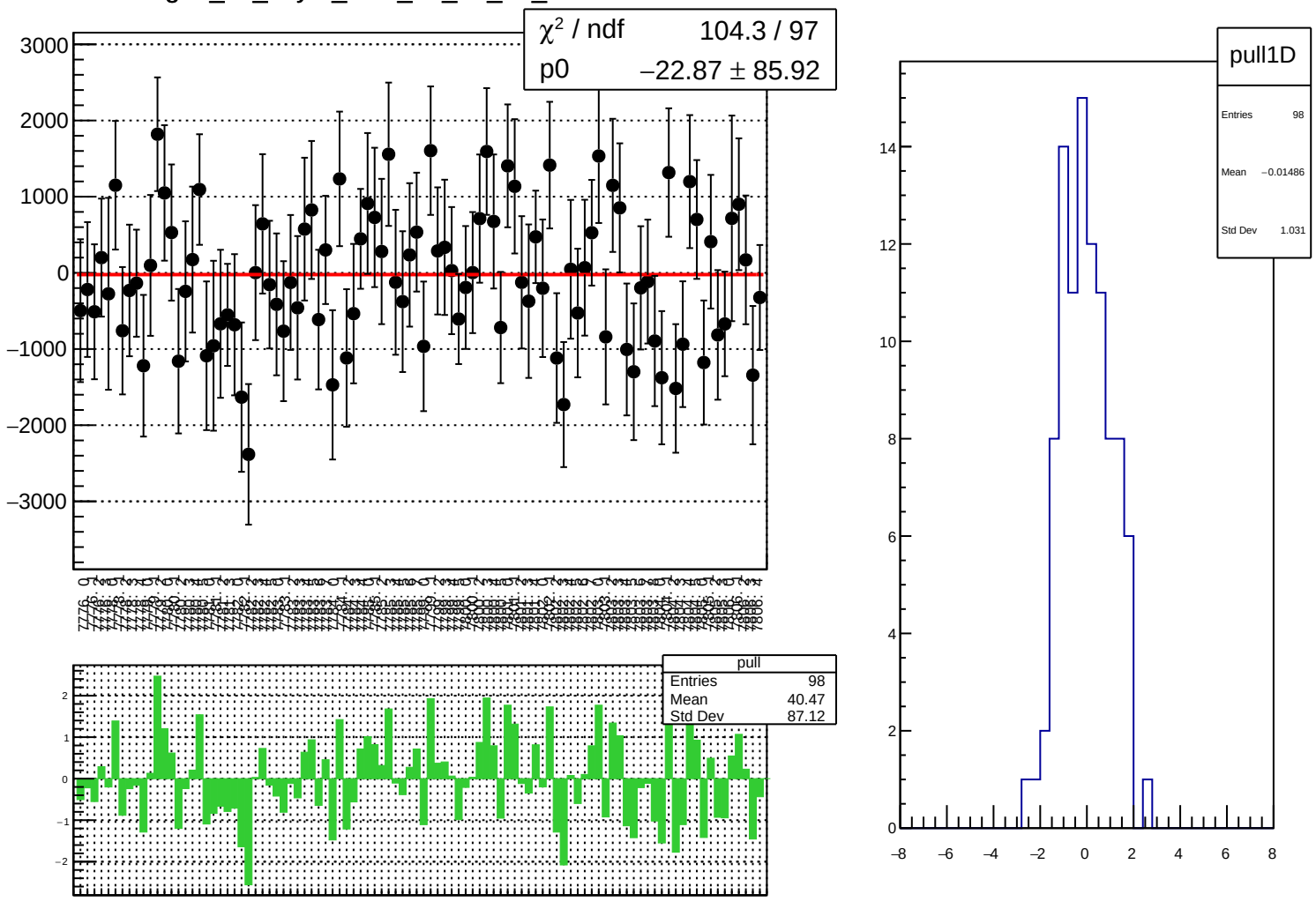

pull1D
Entries 98
Mean −0.01486
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

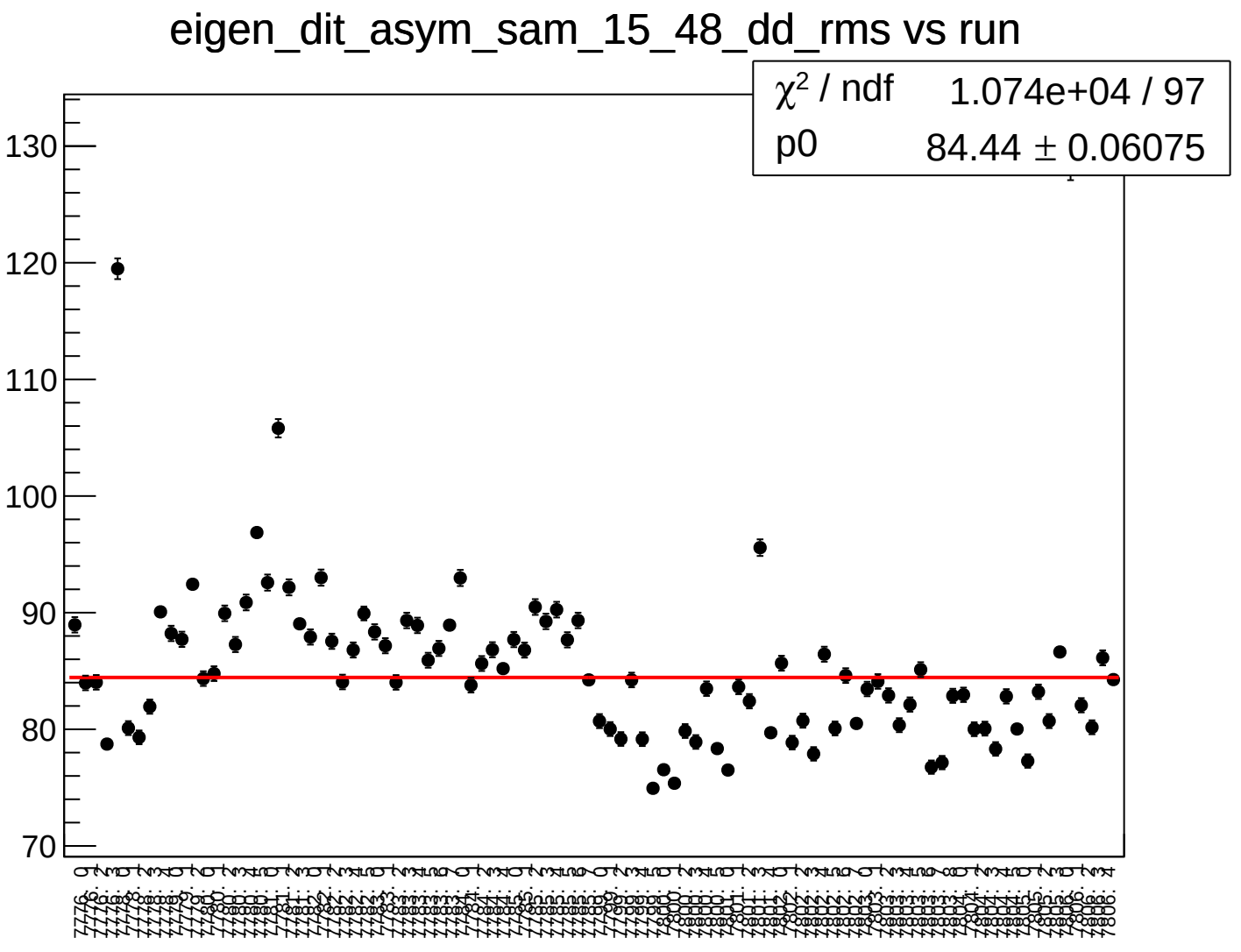

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.074e+04 / 97
p0 84.44 ± 0.06075
130
120
110
100
90
80
70

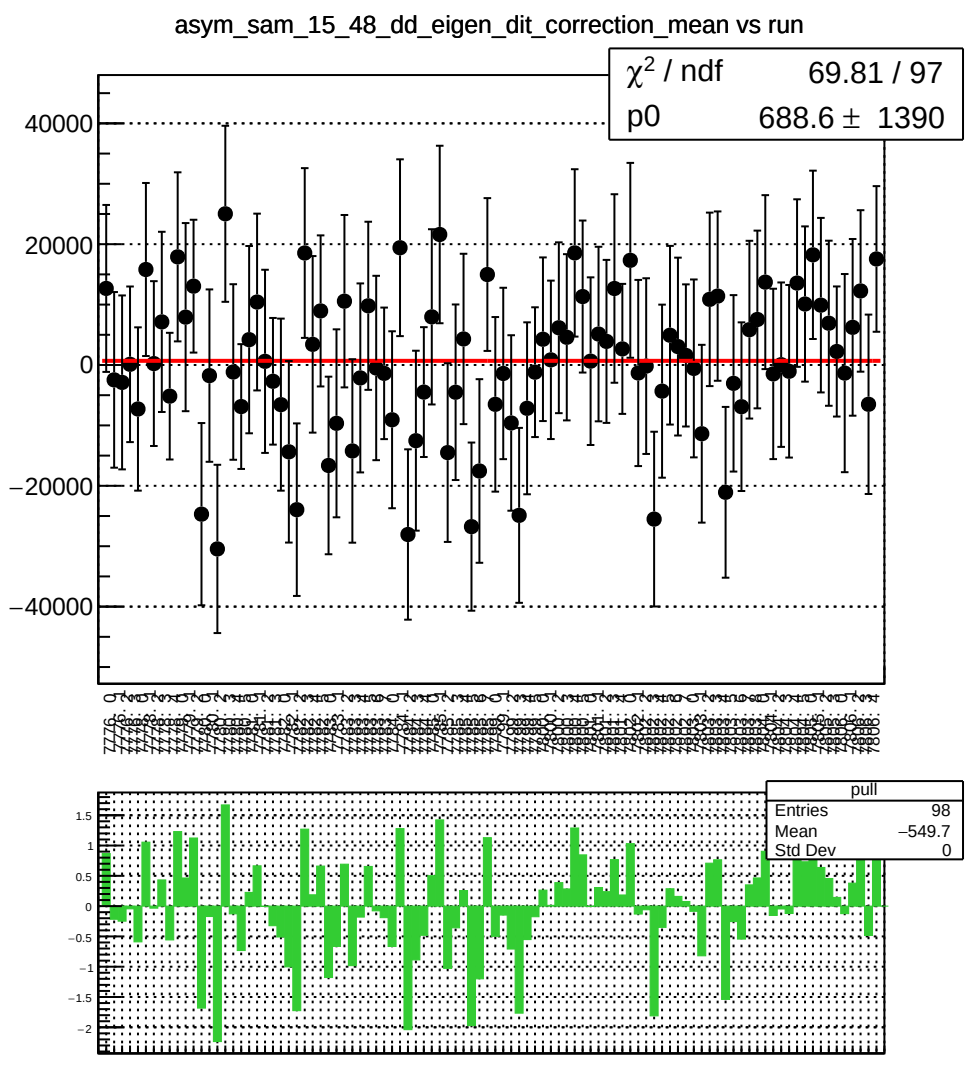

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 69.81 / 97
p0 688.6 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −549.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

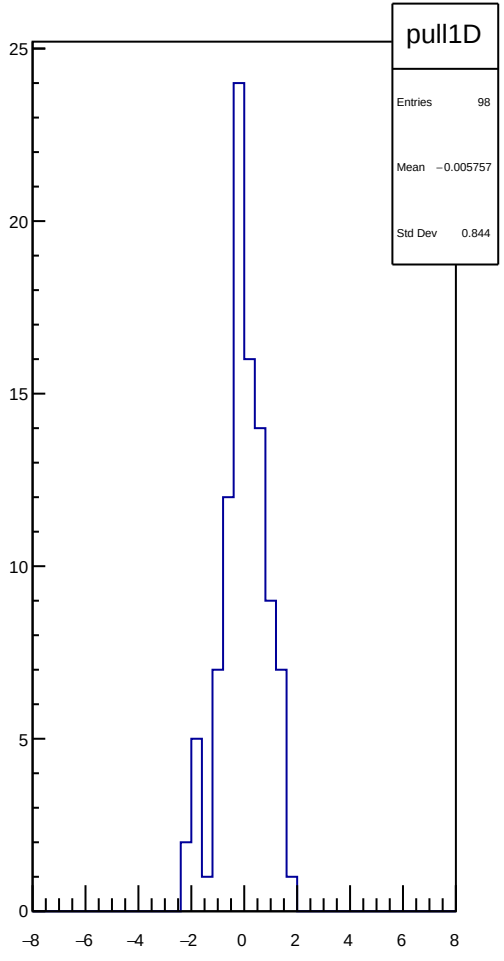

pull1D
Entries 98
Mean −0.005757
Std Dev 0.844
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

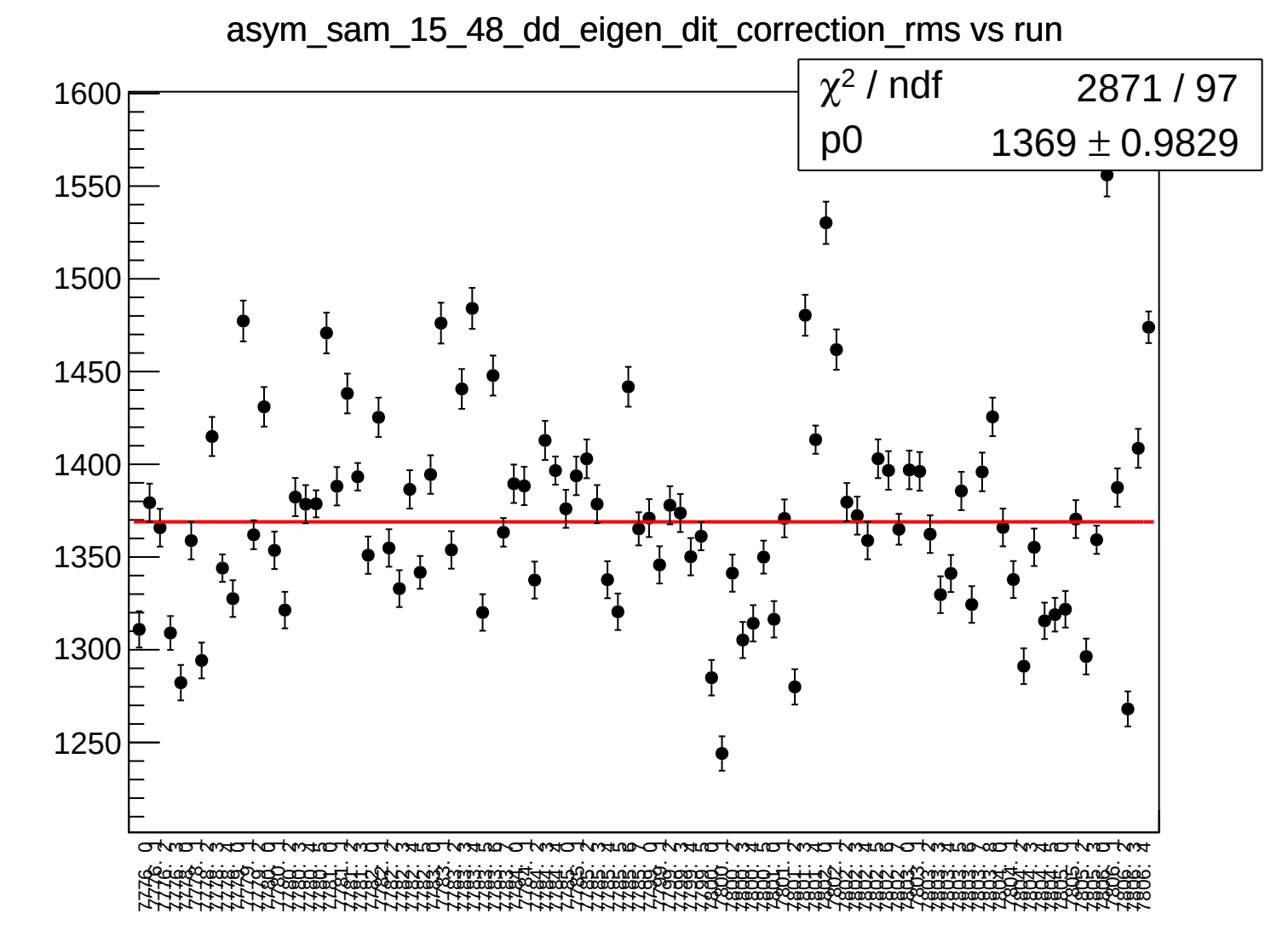

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 2872 / 97
p0 1369 ± 0.9829
1600
1550
1500
1450
1400
1350
1300
1250

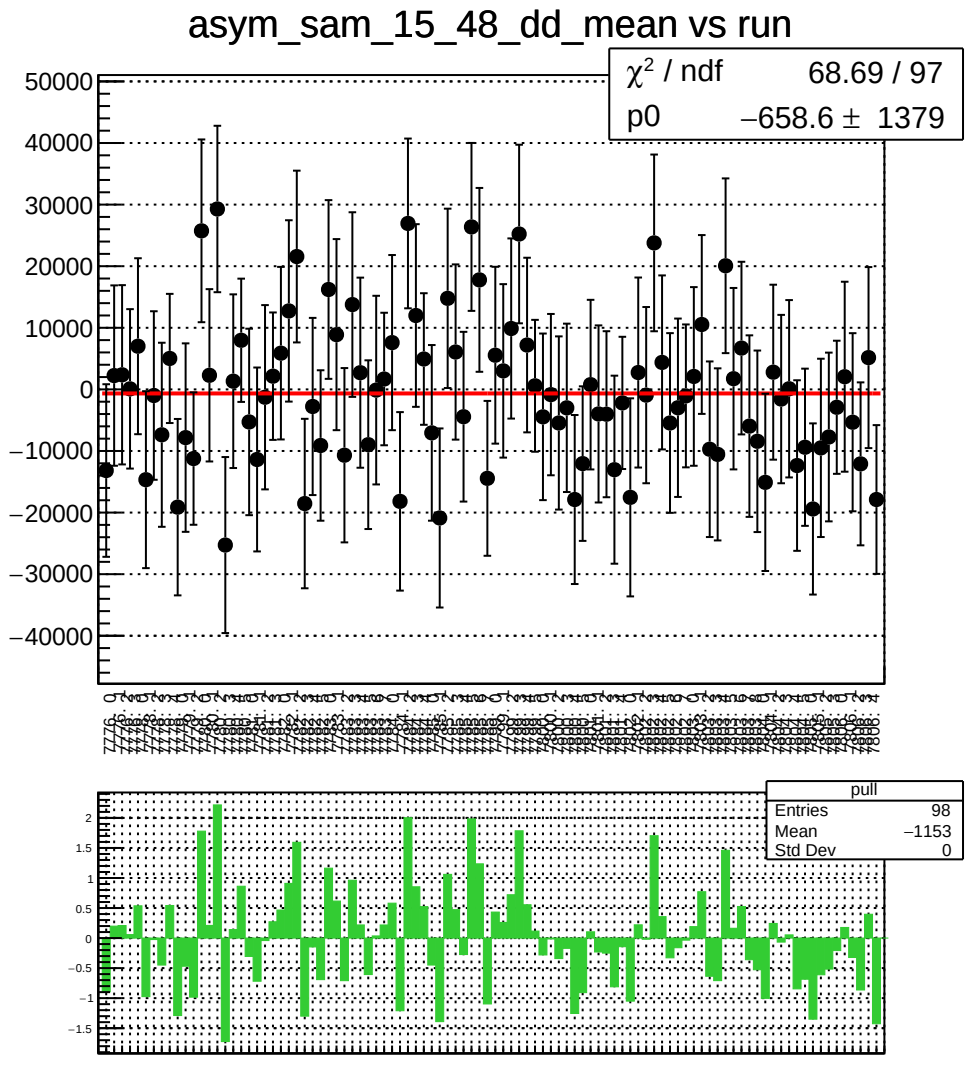

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.3 / 97
p0 −22.87 ± 85.92
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean 40.47
Std Dev 87.12
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01486
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

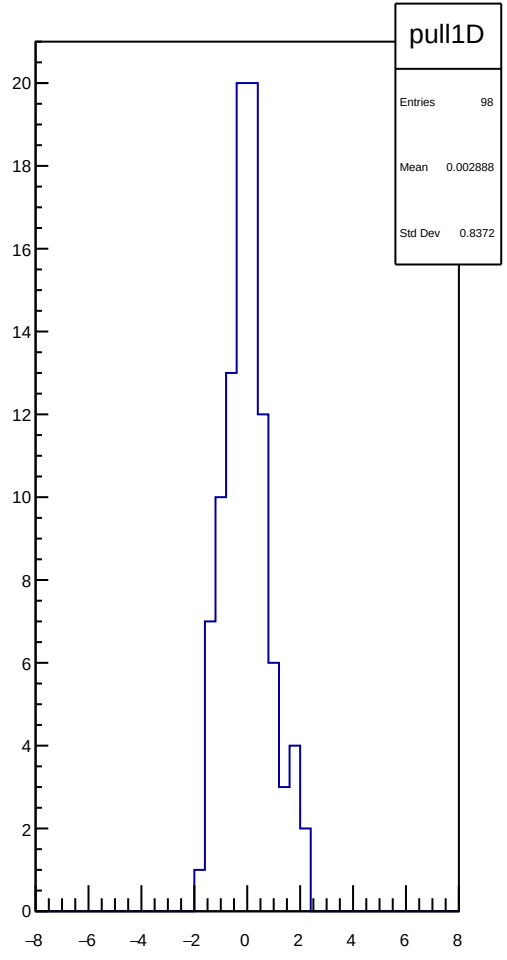

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.074e+04 / 97
p0 84.44 ± 0.06075
130
120
110
100
90
80
70

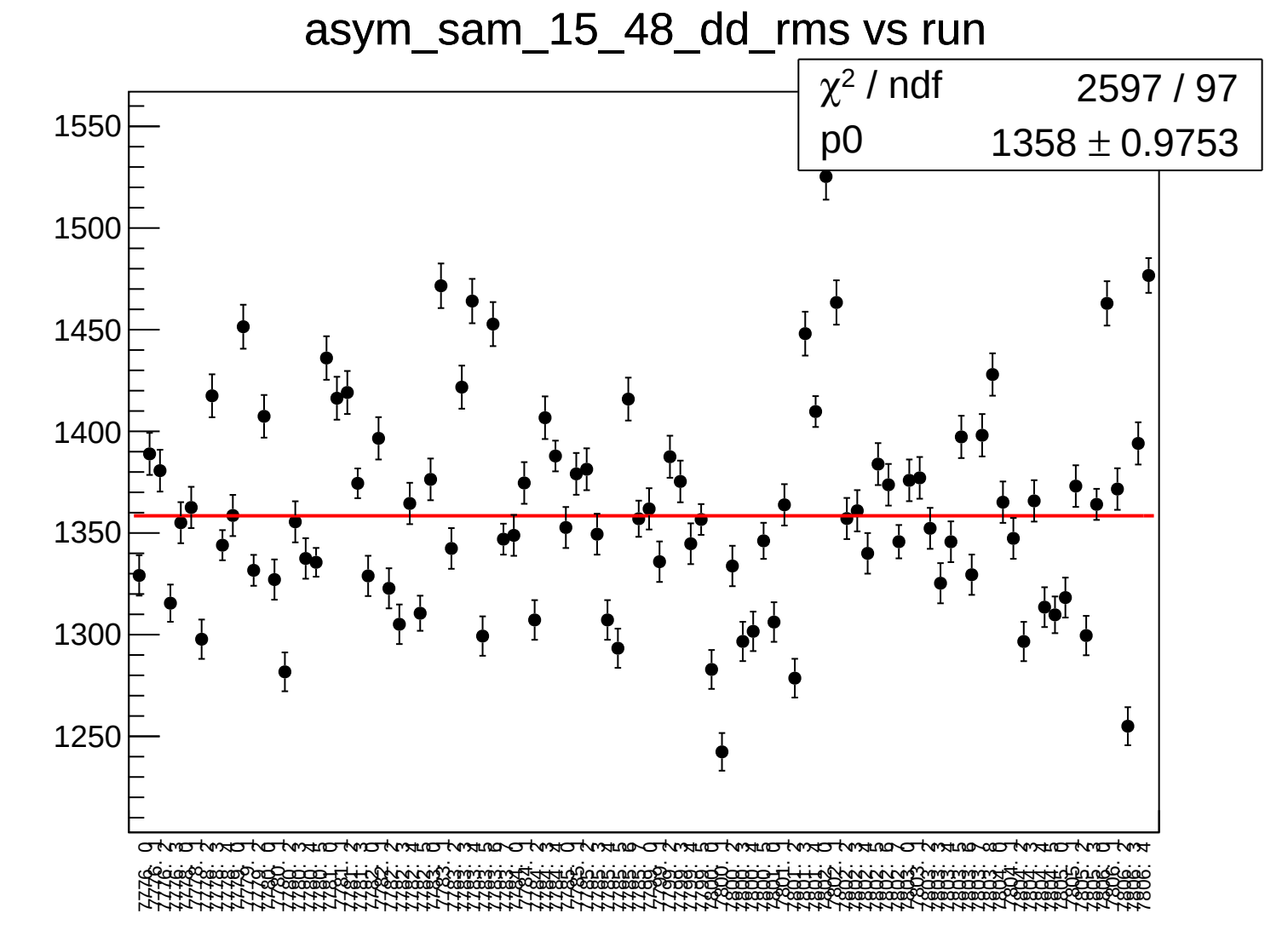

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.81 / 97
p0 688.6 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 98
Mean −549.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

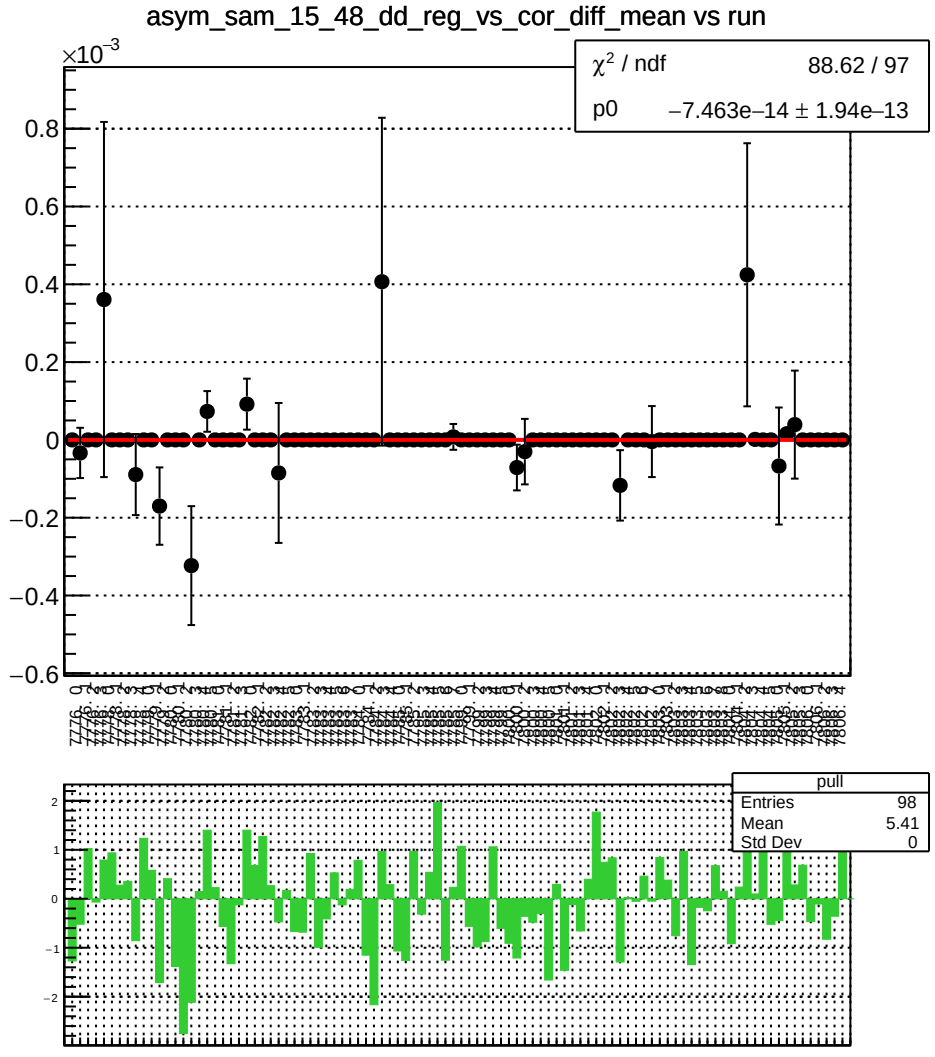

pull1D
Entries 98
Mean −0.005757
Std Dev 0.844
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

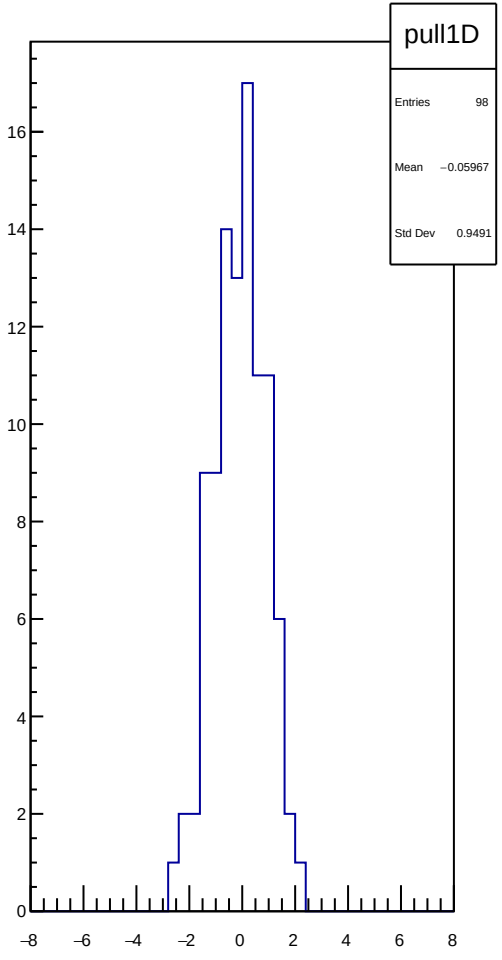

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2871 / 97
p0 1369 ± 0.9829
1600
1550
1500
1450
1400
1350
1300
1250

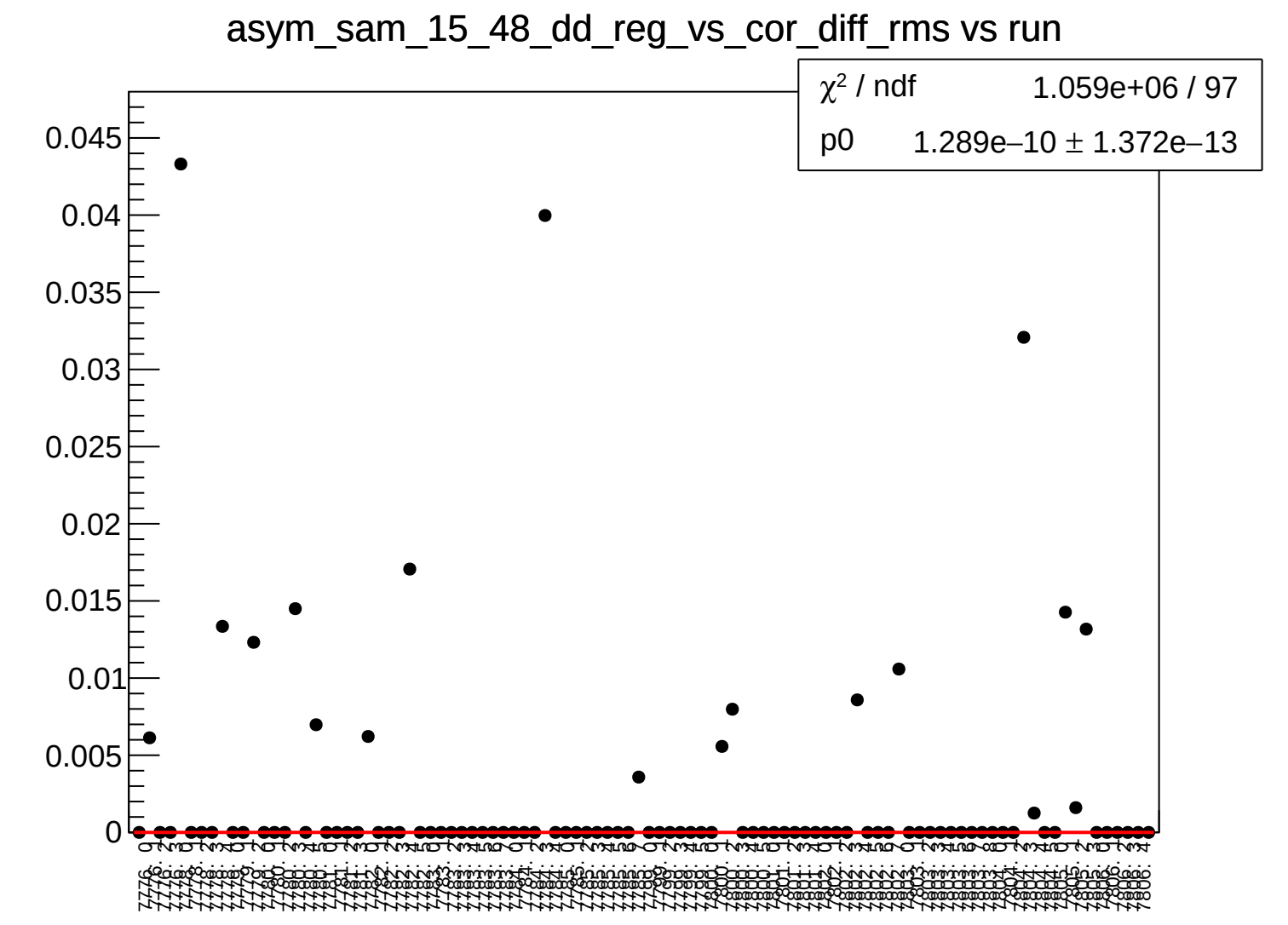

asym_sam_15_48_dd_mean vs run
χ² / ndf 68.69 / 97
p0 −658.6 ± 1379
pull
Entries 98
Mean −1153
Std Dev 0

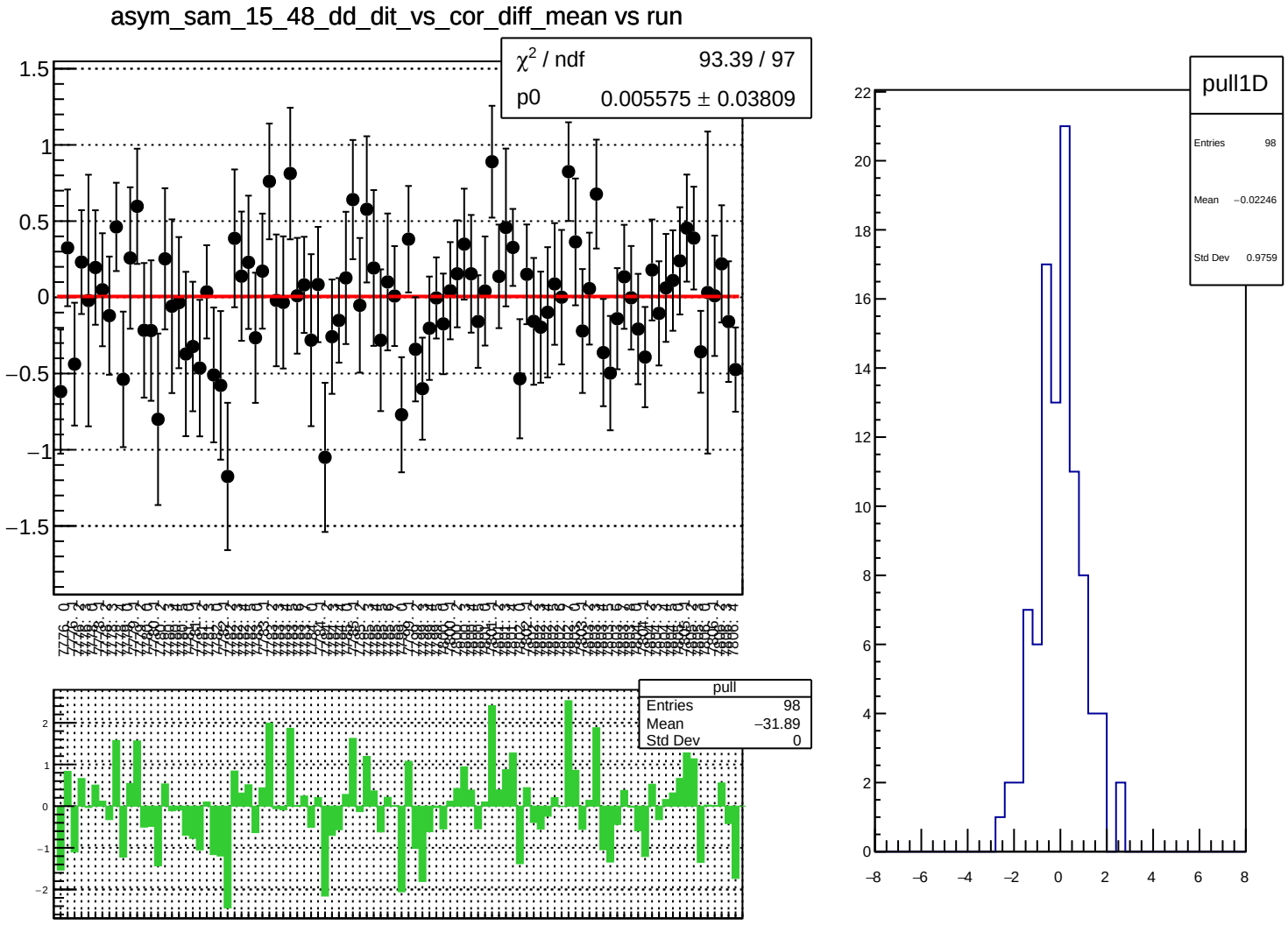

pull1D
Entries 98
Mean 0.002888
Std Dev 0.8372

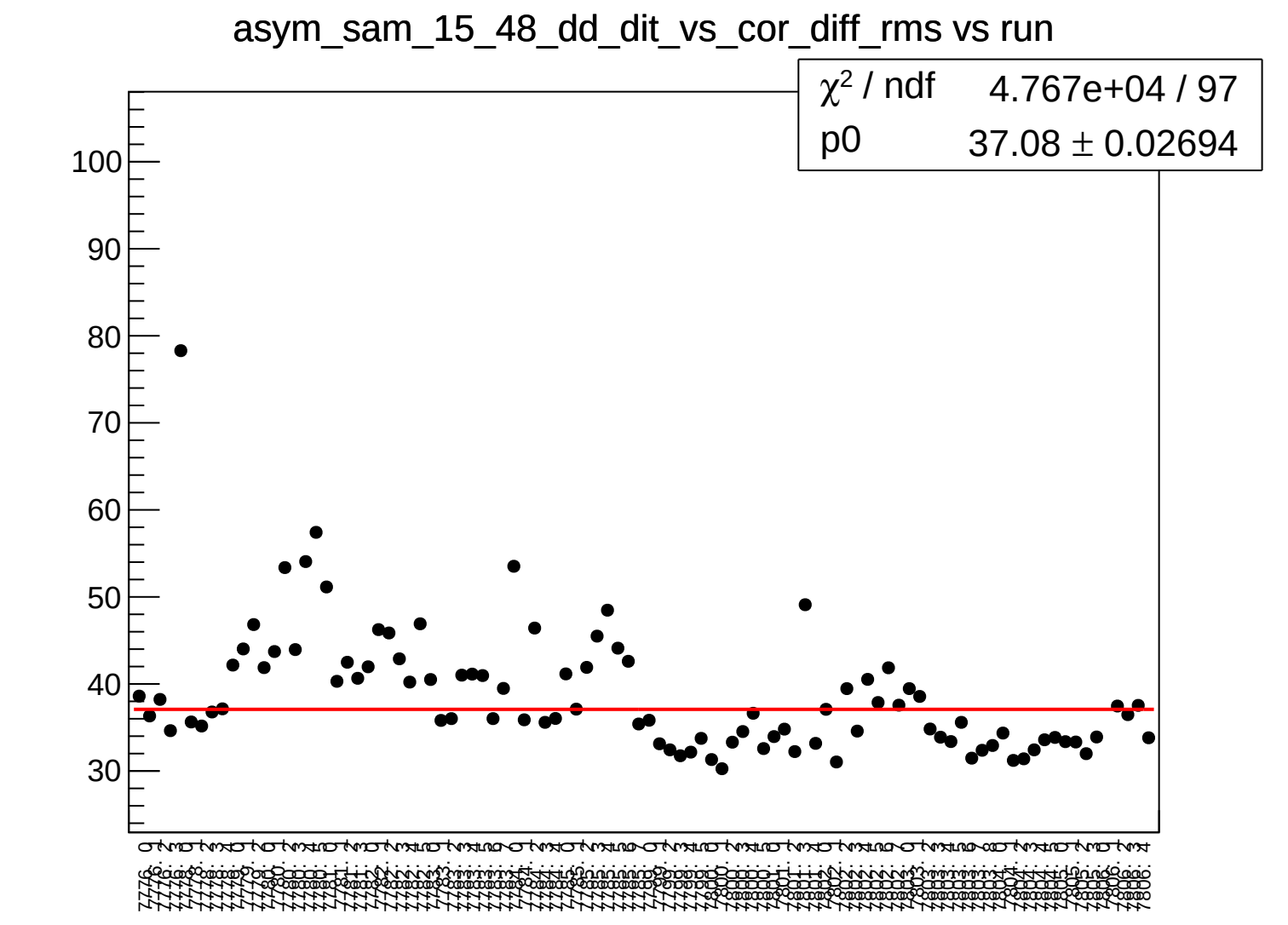

asym_sam_15_48_dd_rms vs run
χ² / ndf 2597 / 97
p0 1358 ± 0.9753
1550
1500
1450
1400
1350
1300
1250

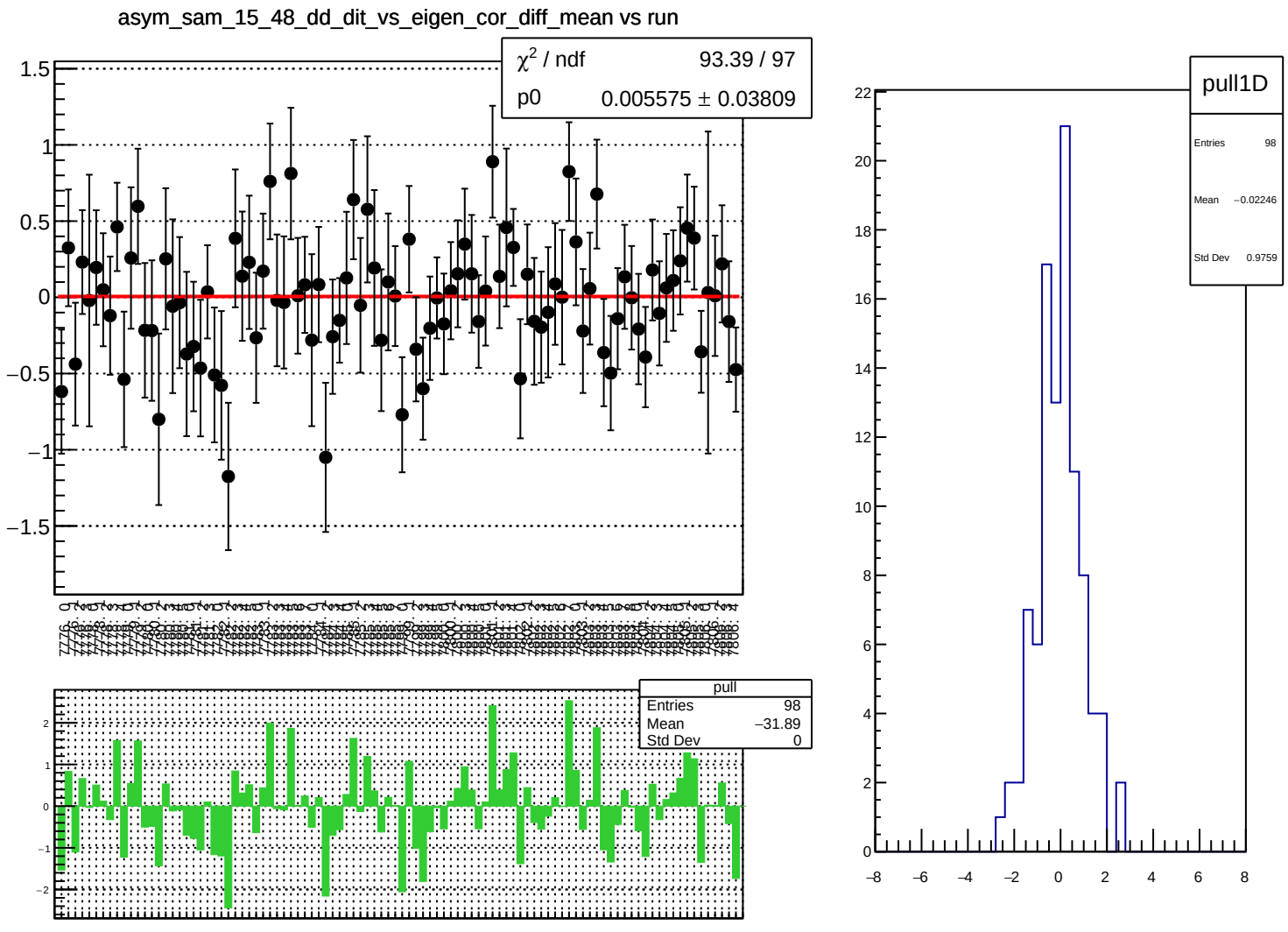

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 88.62 / 97
p0 −7.463e−14 ± 1.94e−13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 98
Mean 5.41
Std Dev 0
2
1
0
−1
−2

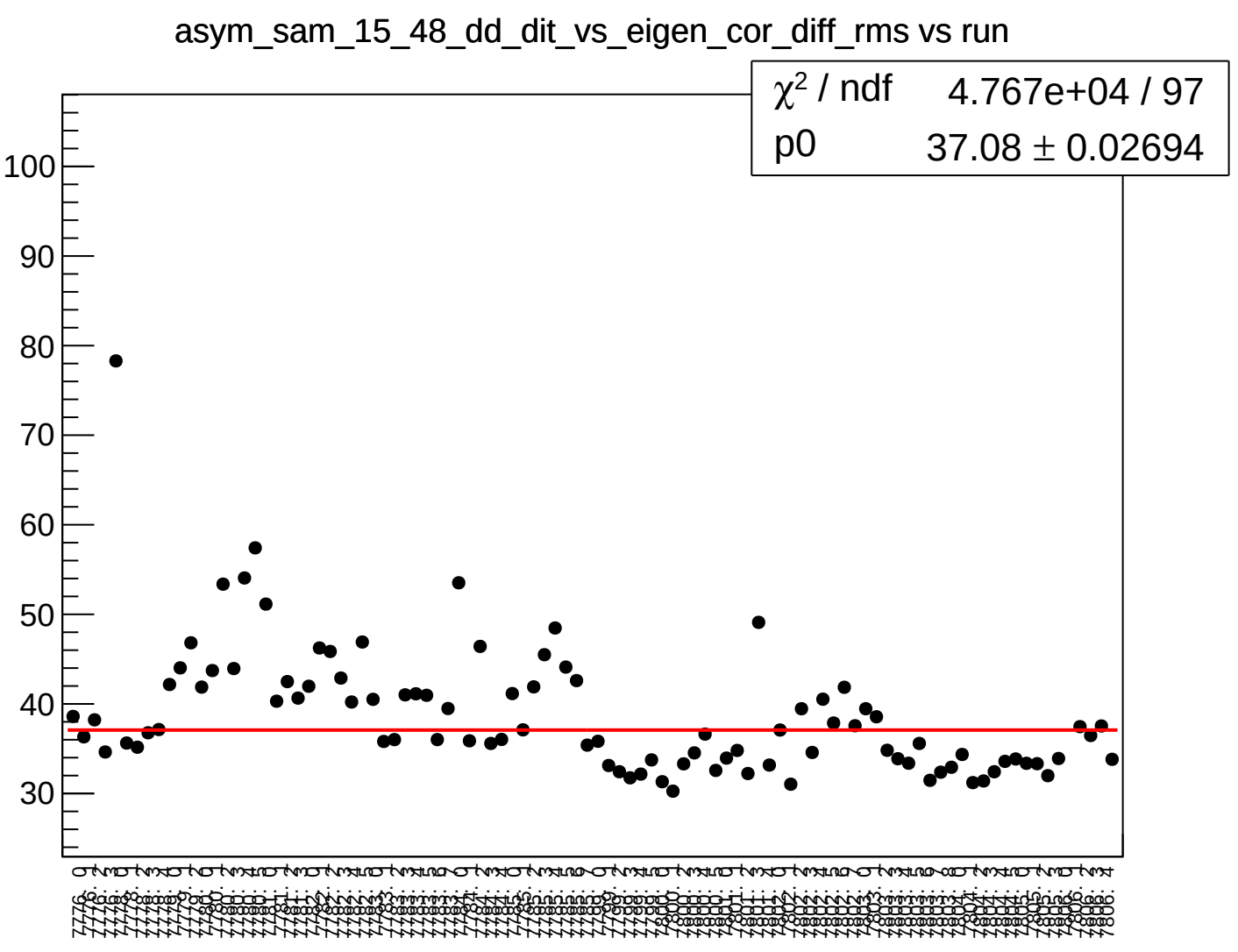

pull1D
Entries 98
Mean −0.05967
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

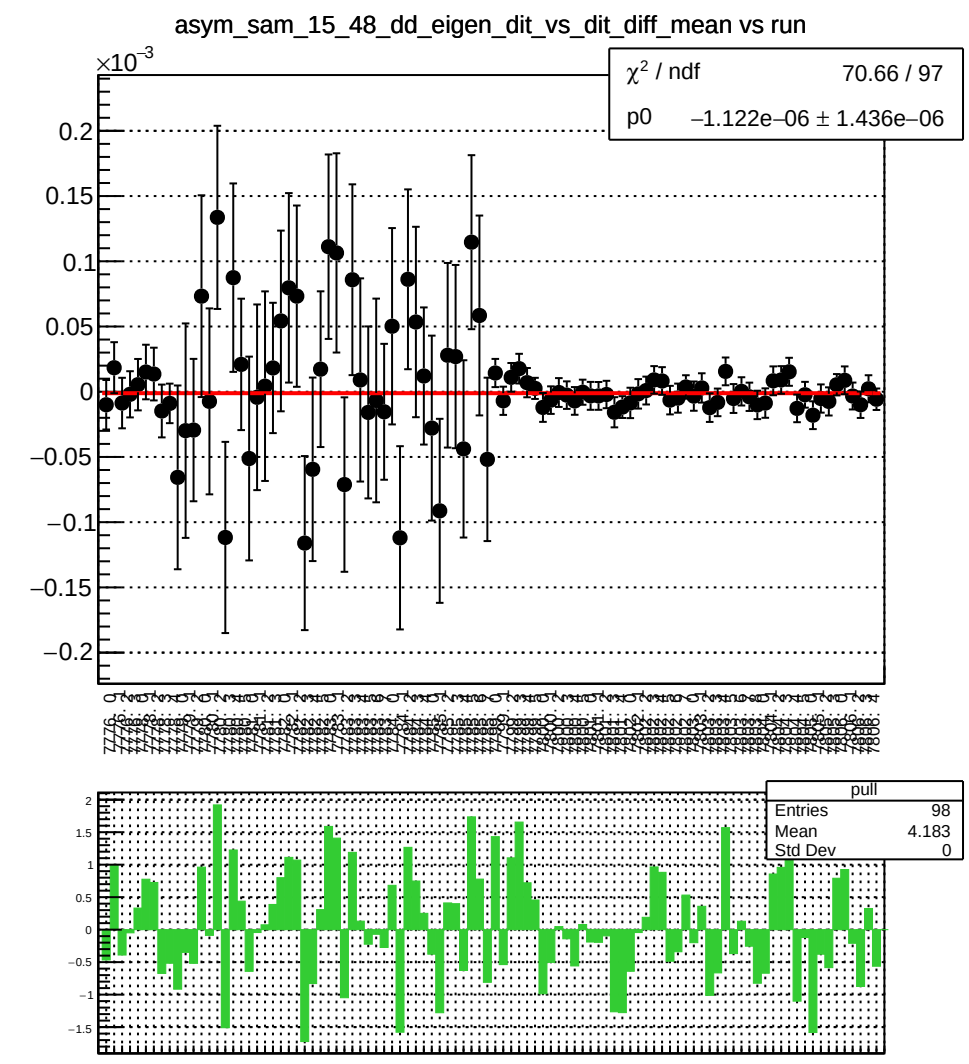

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.059e+06 / 97
p0 1.289e−10 ± 1.372e−13
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

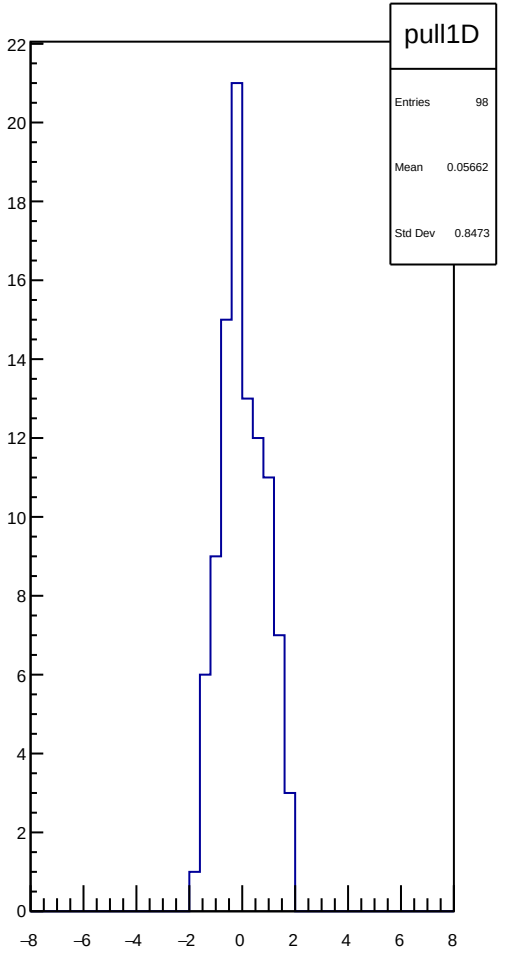

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.39 / 97
p0 0.005575 ± 0.03809
pull
Entries 98
Mean −31.89
Std Dev 0
pull1D
Entries 98
Mean −0.02246
Std Dev 0.9759

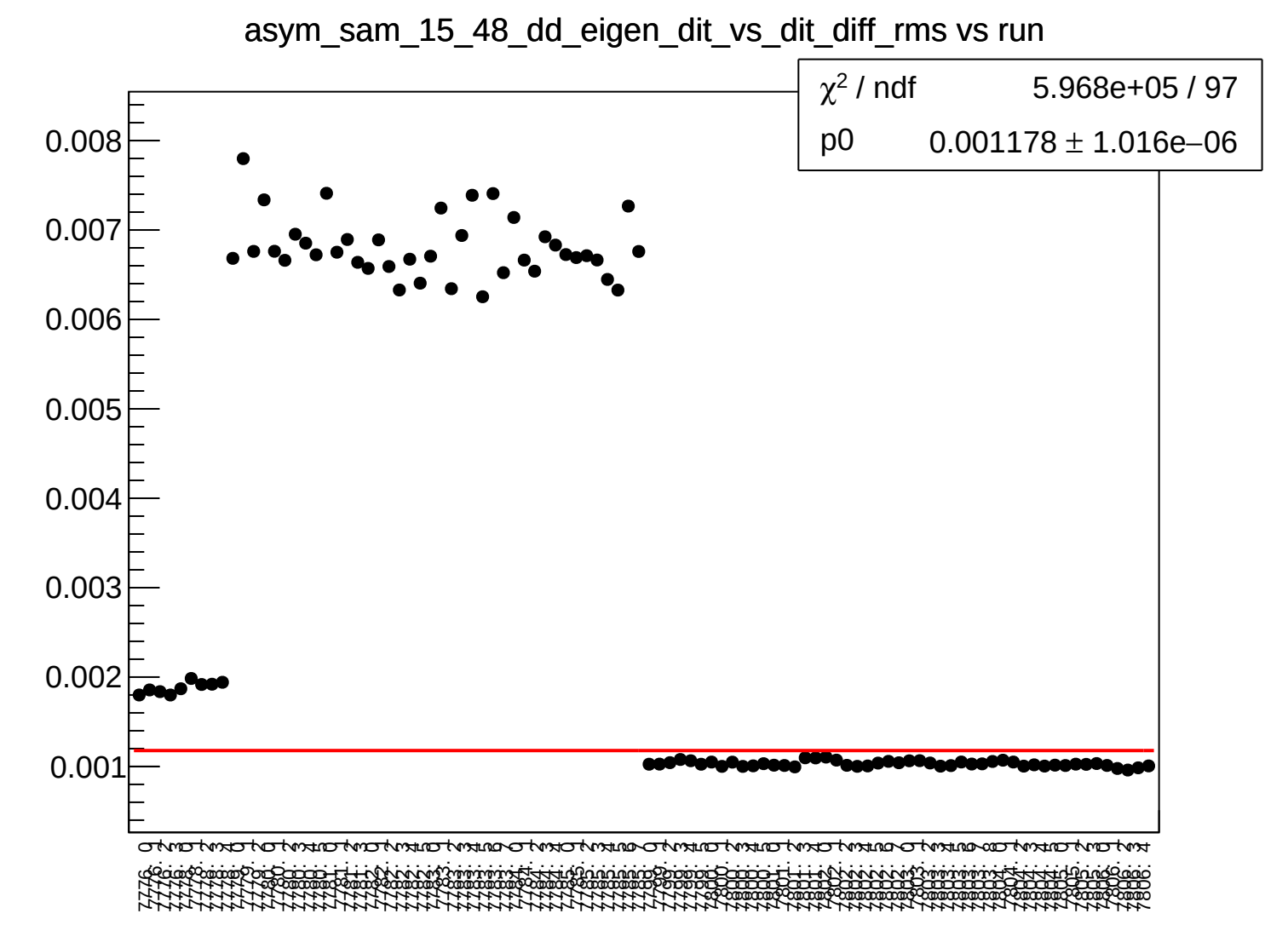

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.767e+04 / 97
p0 37.08 ± 0.02694
100
90
80
70
60
50
40
30

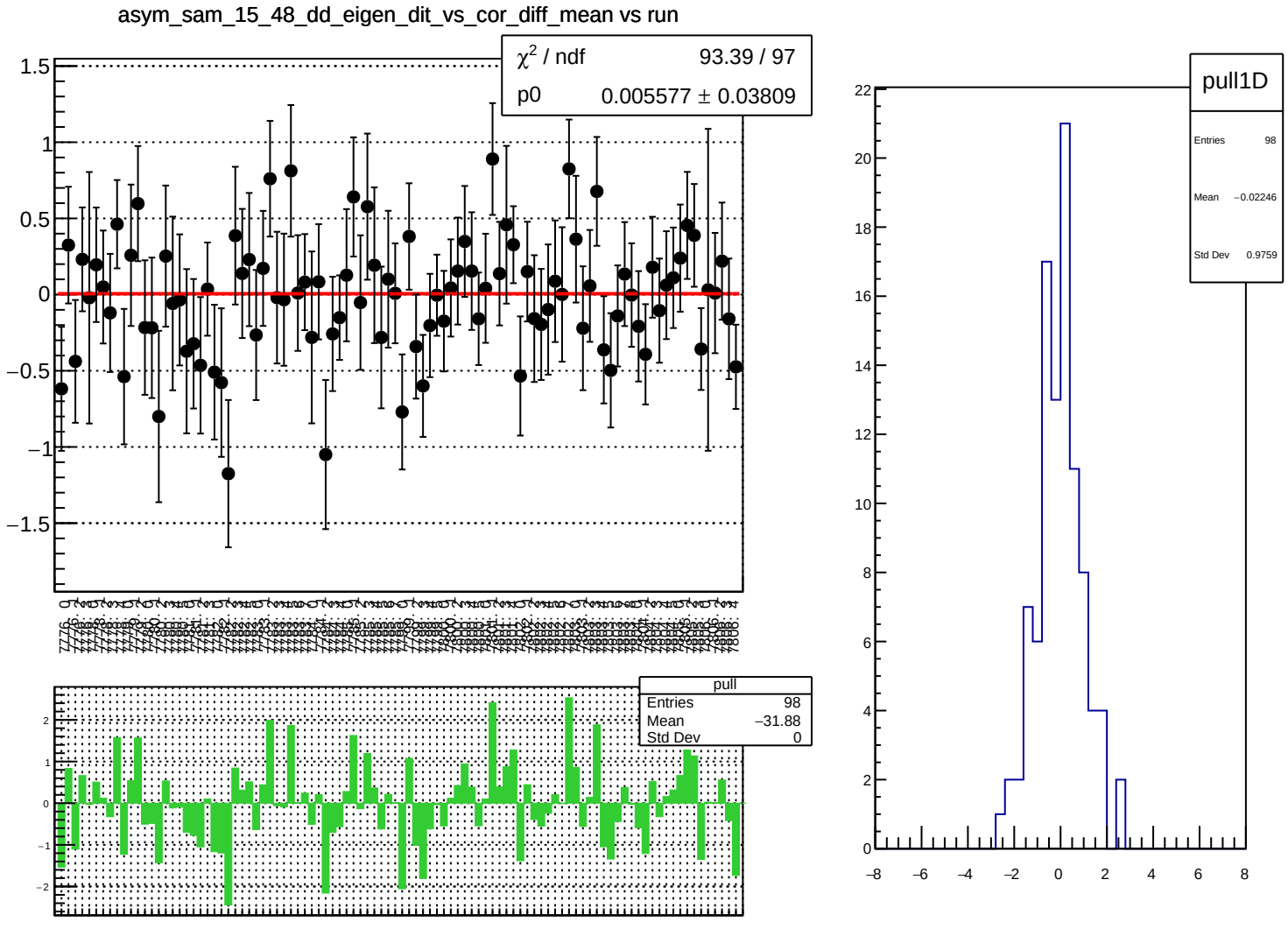

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.39 / 97
p0 0.005575 ± 0.03809
pull
Entries 98
Mean −31.89
Std Dev 0
pull1D
Entries 98
Mean −0.02246
Std Dev 0.9759

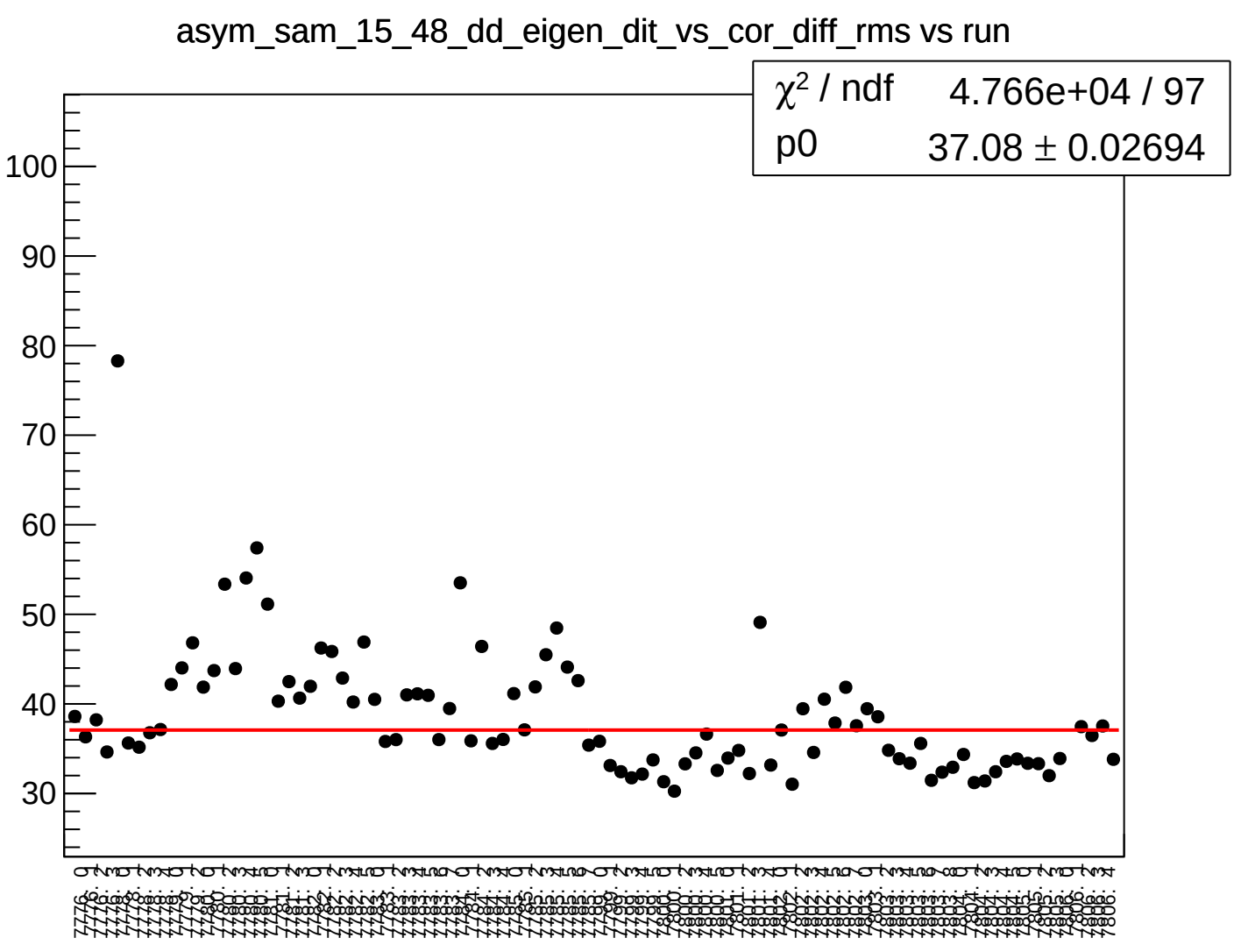

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.767e+04 / 97
p0 37.08 ± 0.02694
100
90
80
70
60
50
40
30

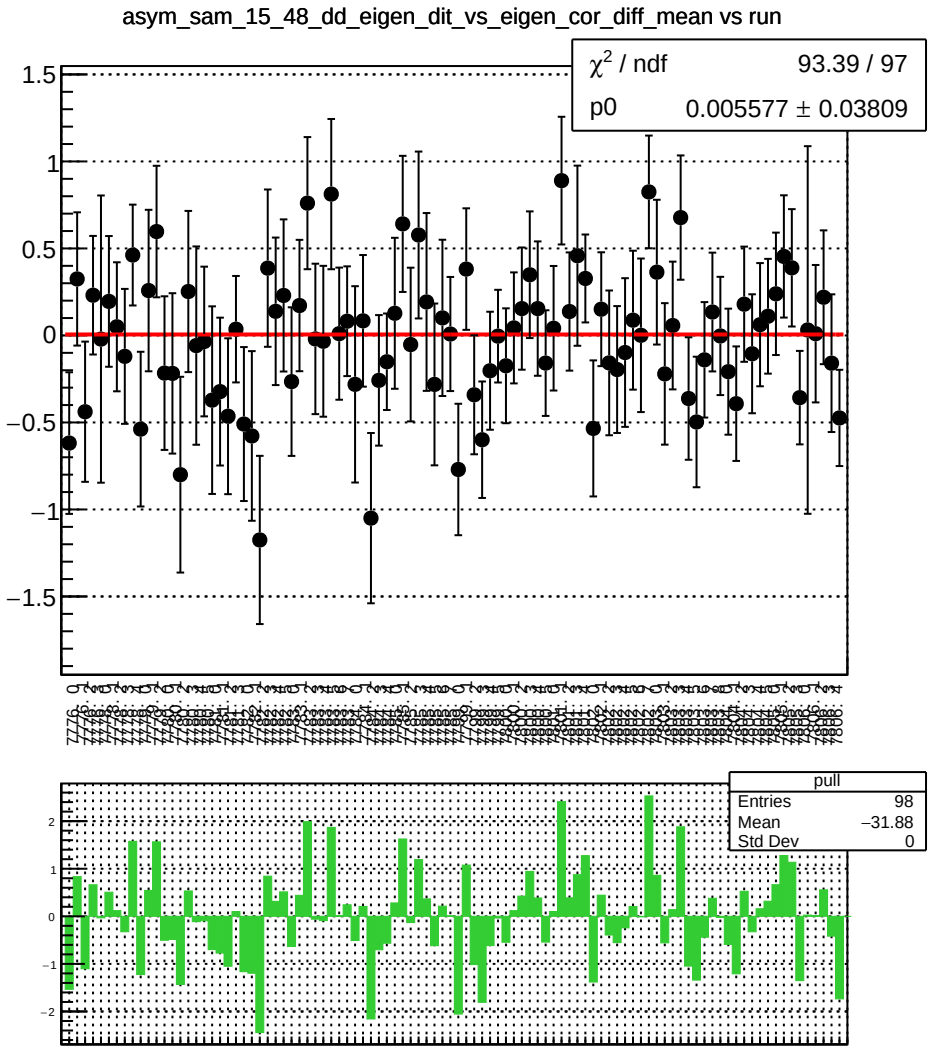

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.66 / 97
p0 −1.122e−06 ± 1.436e−06
pull
Entries 98
Mean 4.183
Std Dev 0

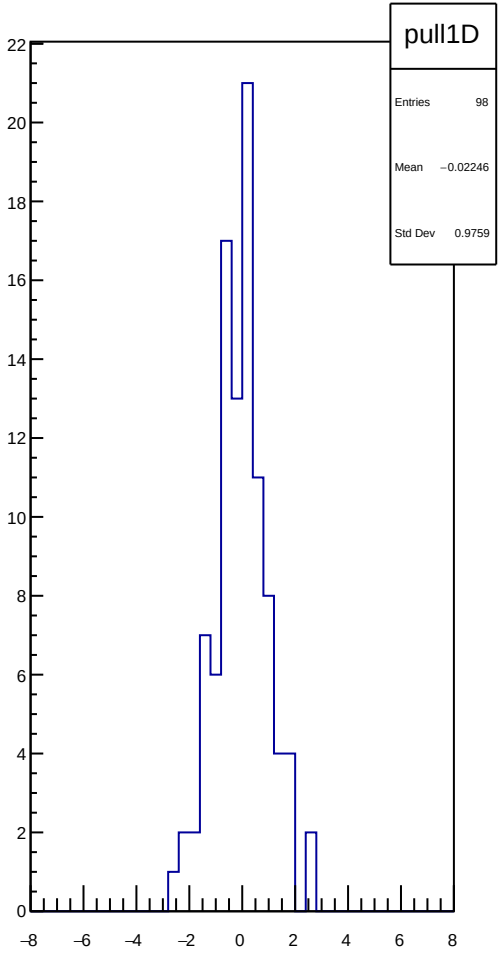

pull1D
Entries 98
Mean 0.05662
Std Dev 0.8473

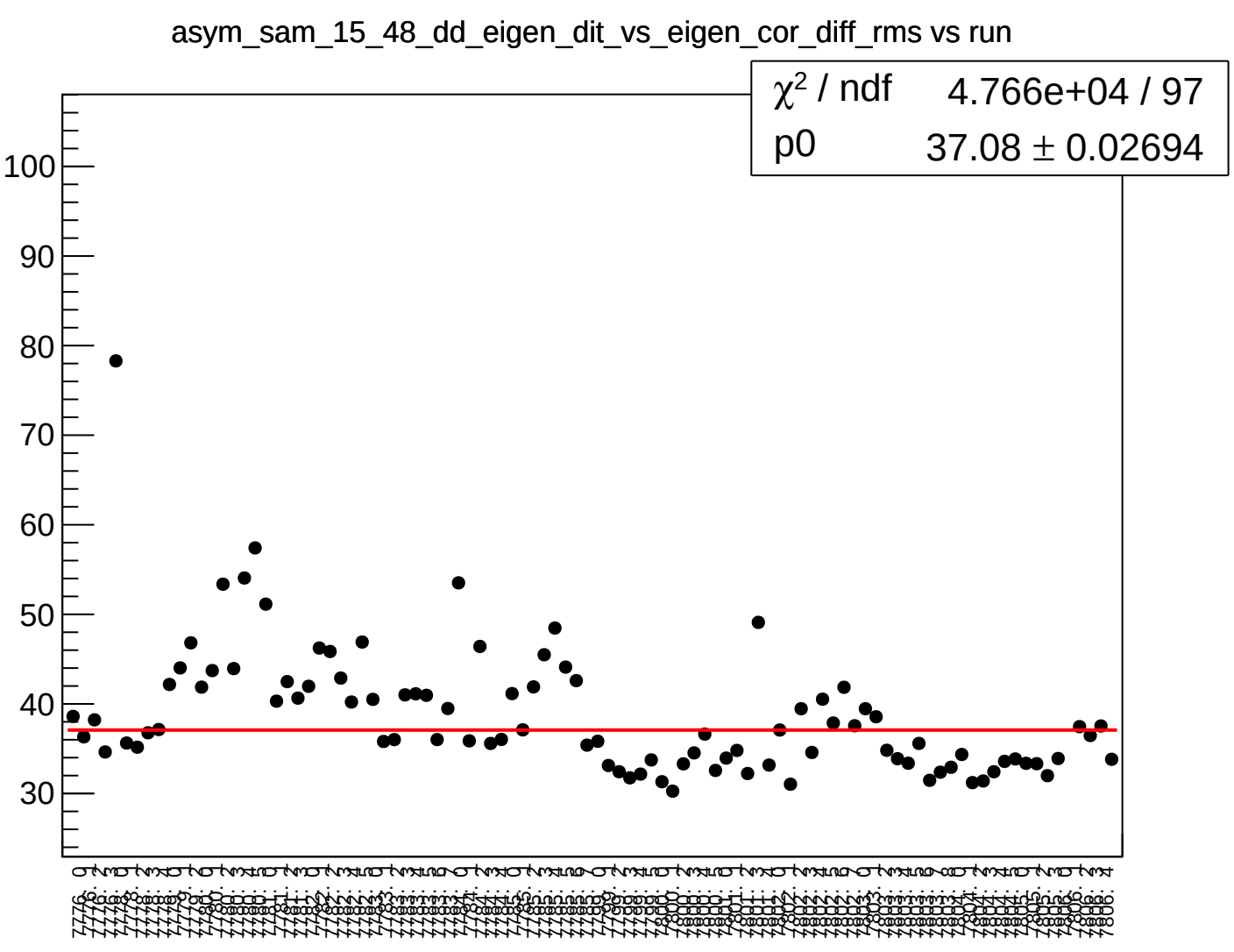

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.968e+05 / 97
p0 0.001178 ± 1.016e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

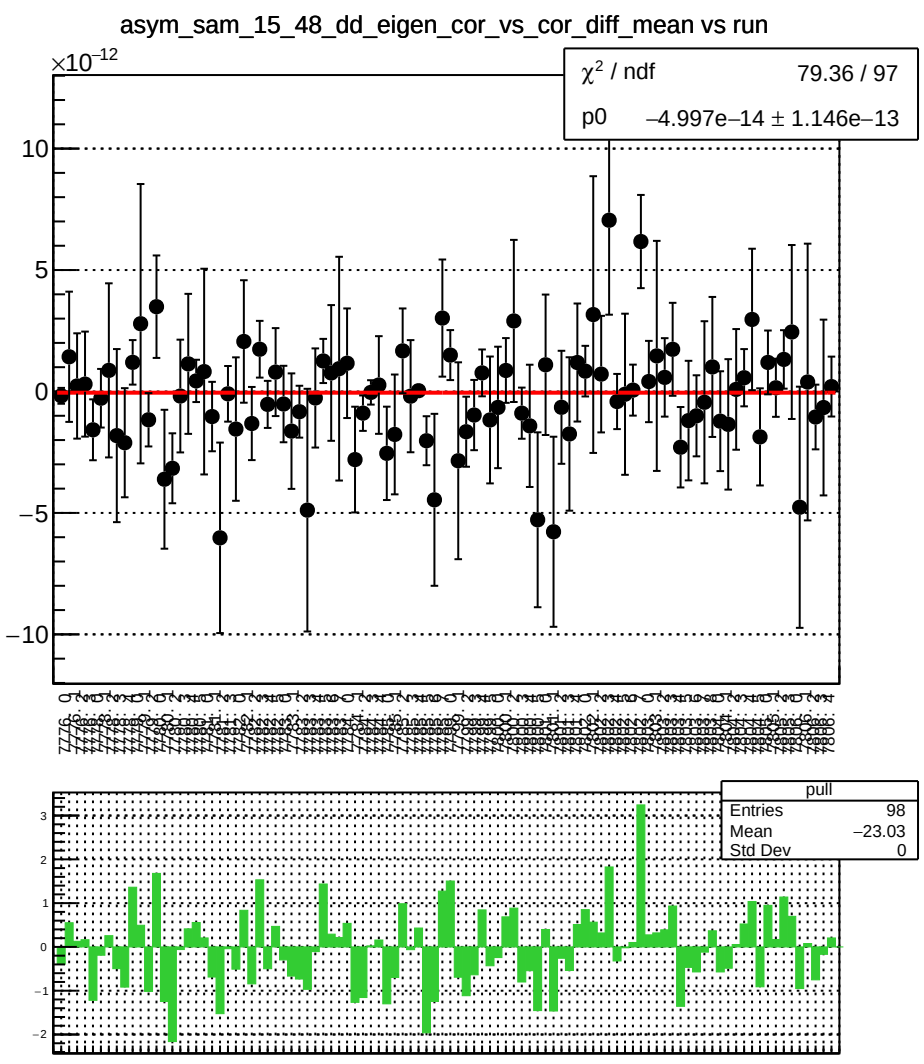

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.39 / 97
p0 0.005577 ± 0.03809
pull
Entries 98
Mean −31.88
Std Dev 0
pull1D
Entries 98
Mean −0.02246
Std Dev 0.9759

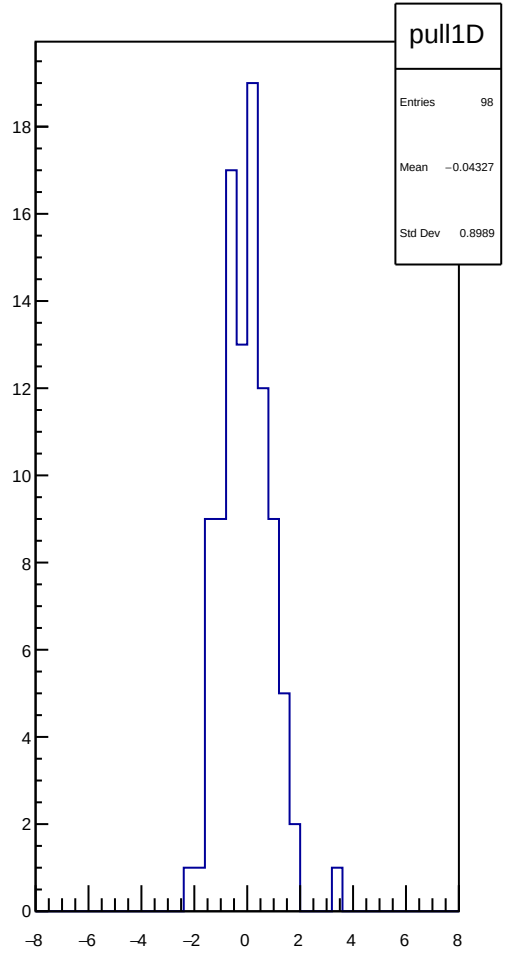

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.766e+04 / 97
p0 37.08 ± 0.02694
100
90
80
70
60
50
40
30

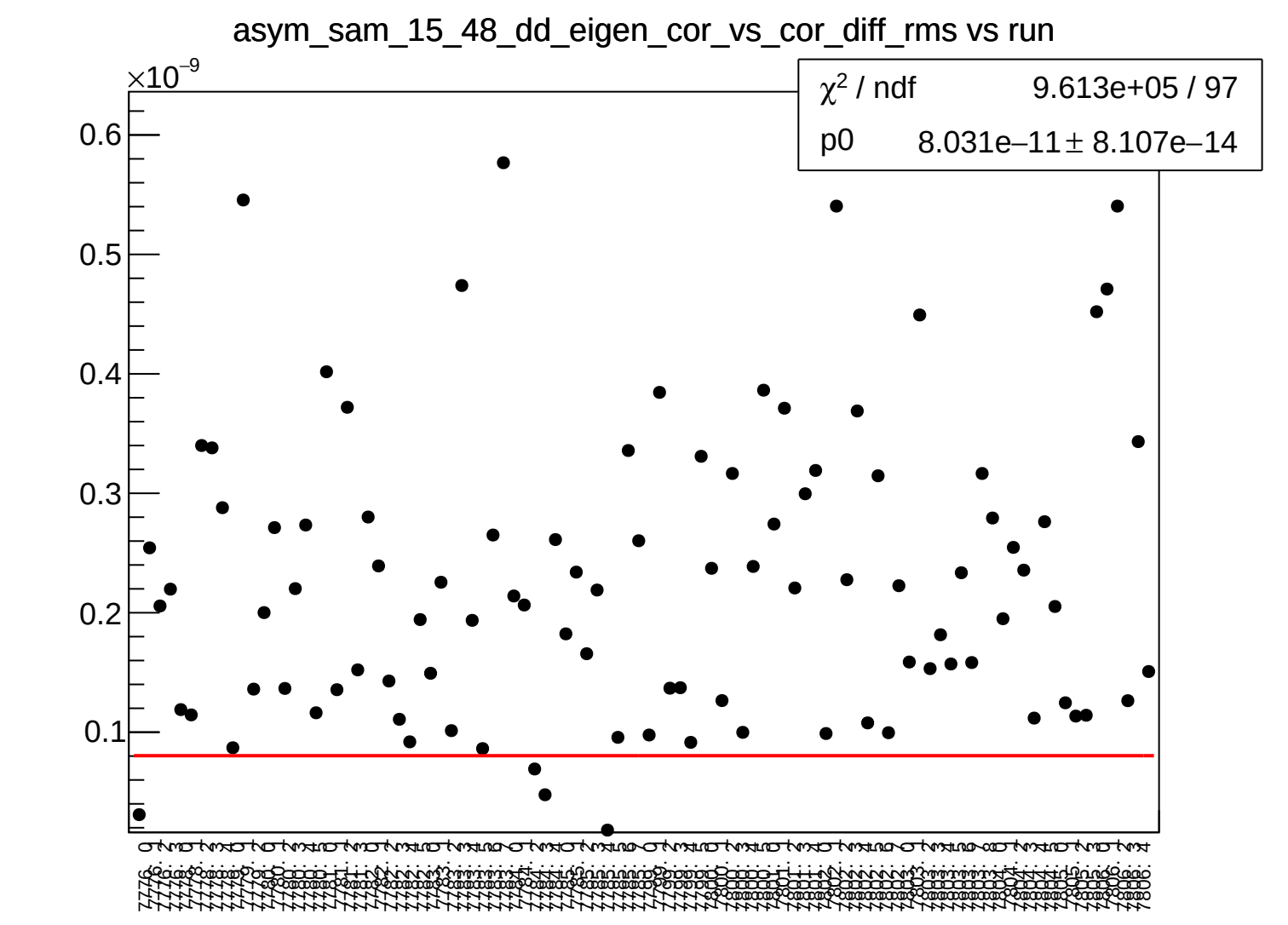

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.39 / 97
p0 0.005577 ± 0.03809
pull
Entries 98
Mean −31.88
Std Dev 0

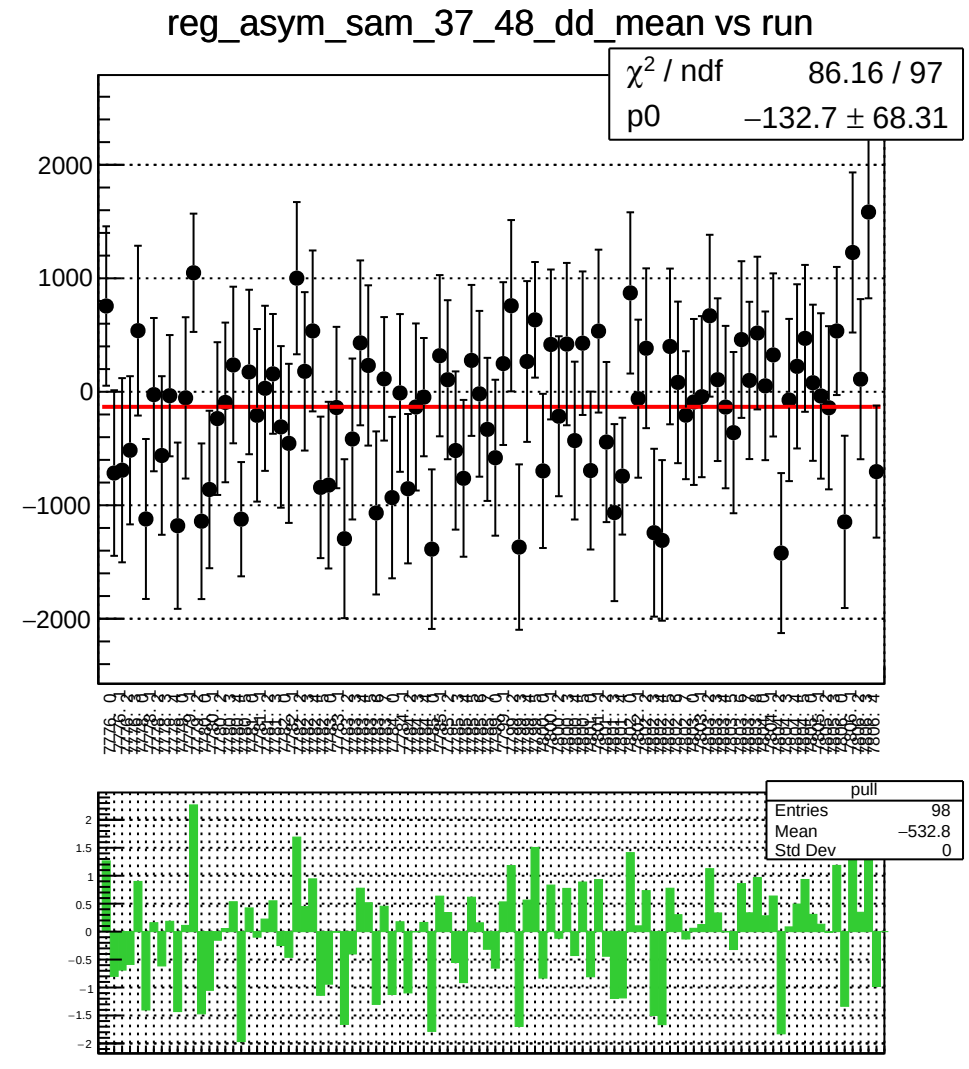

pull1D
Entries 98
Mean −0.02246
Std Dev 0.9759

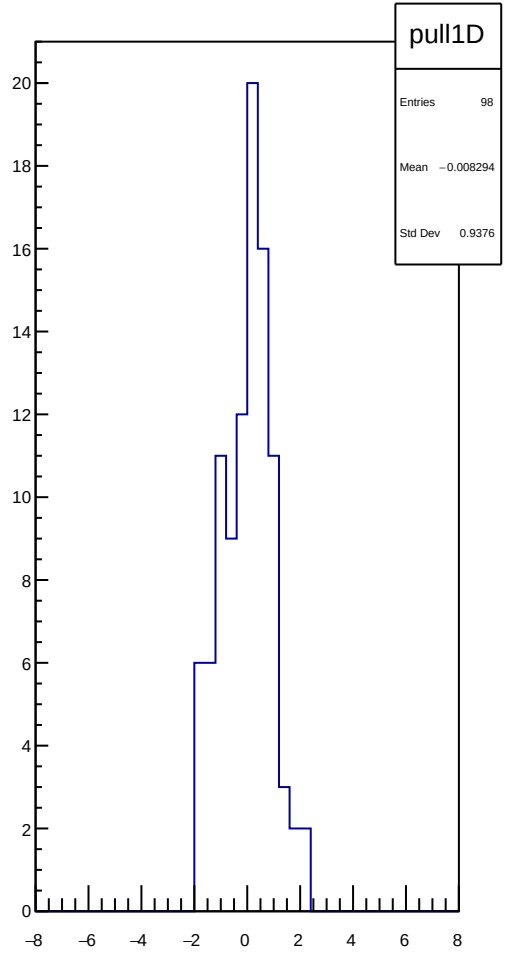

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.766e+04 / 97
p0 37.08 ± 0.02694
100
90
80
70
60
50
40
30

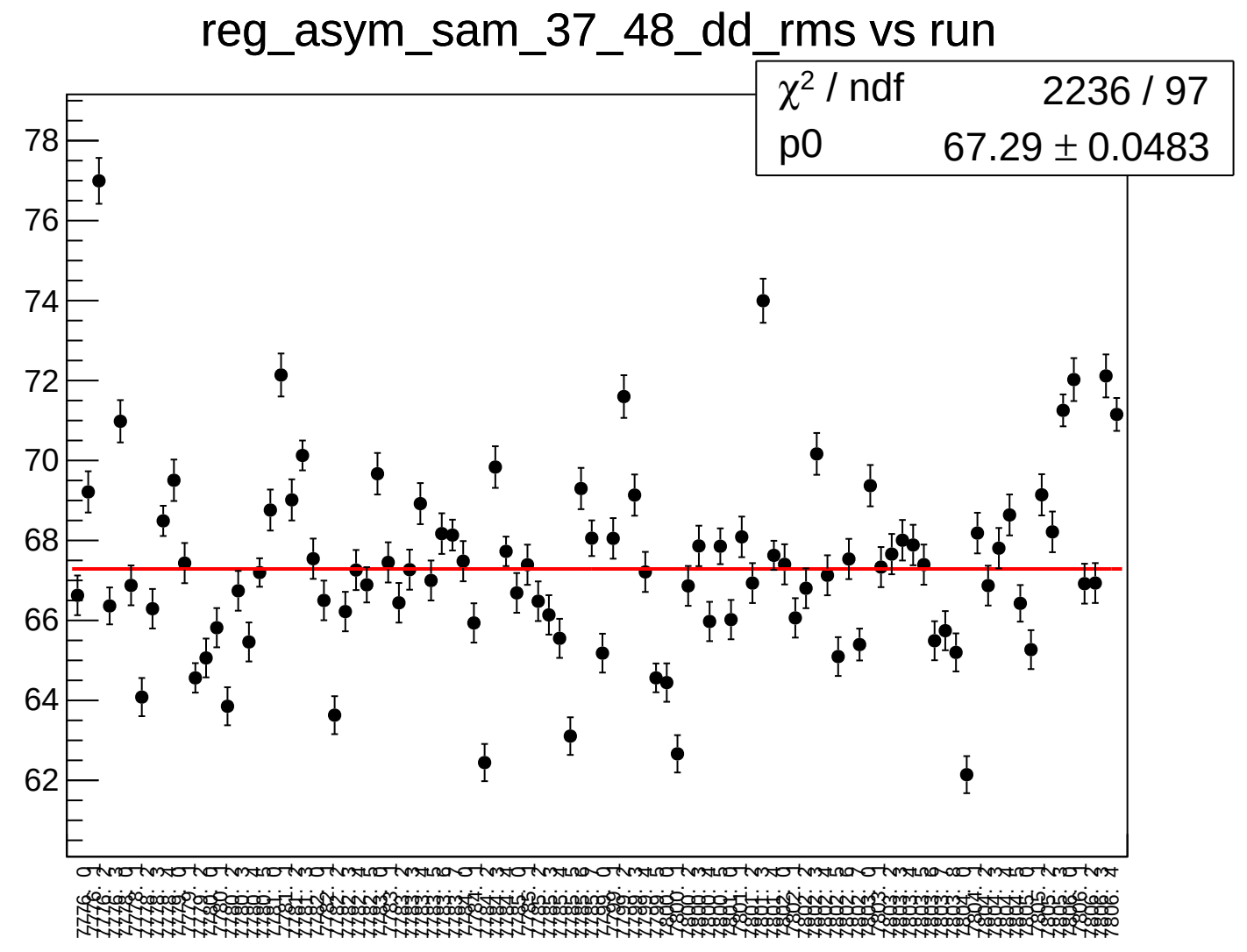

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.36 / 97
p0 −4.997e−14 ± 1.146e−13
10
5
0
−5
−10
pull
Entries 98
Mean −23.03
Std Dev 0
3
2
1
0
−1
−2

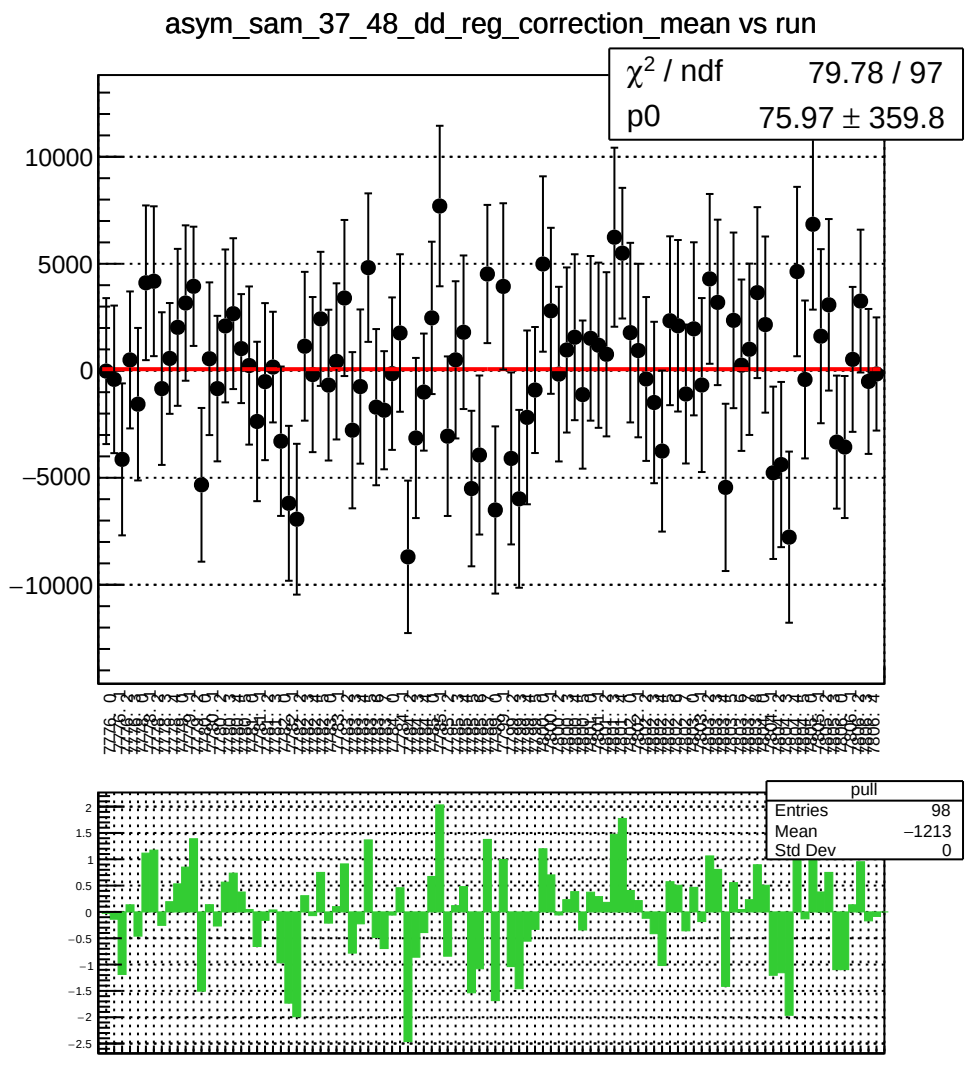

pull1D
Entries 98
Mean −0.04327
Std Dev 0.8989
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

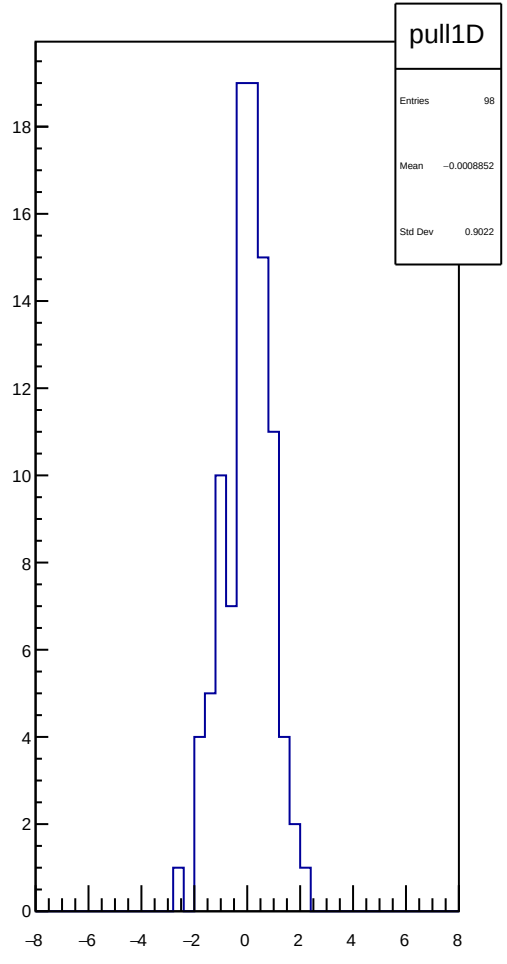

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.613e+05 / 97
p0 8.031e−11 ± 8.107e−14
0.6
0.5
0.4
0.3
0.2
0.1

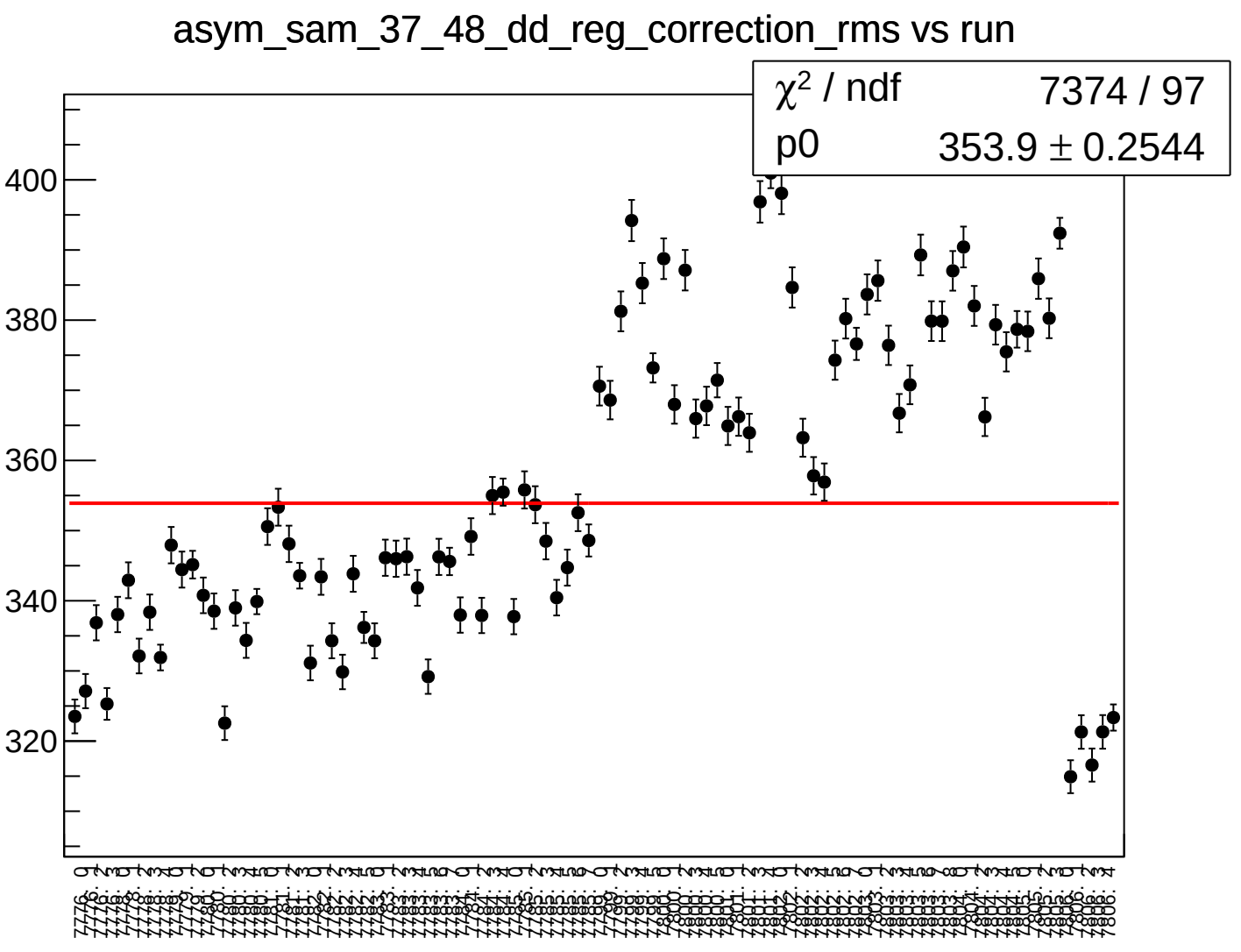

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 86.16 / 97
p0 −132.7 ± 68.31
2000
1000
0
−1000
−2000
pull
Entries 98
Mean −532.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

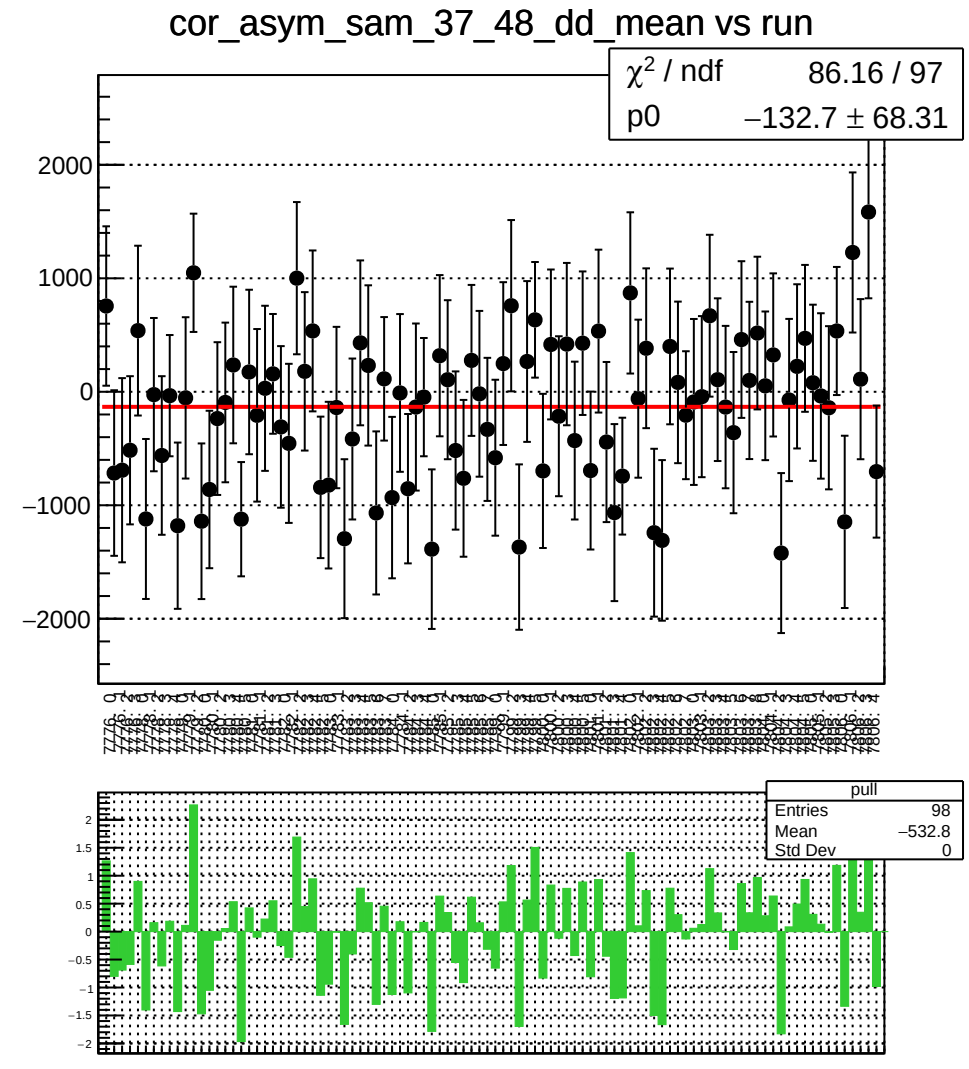

pull1D
Entries 98
Mean −0.008294
Std Dev 0.9376
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

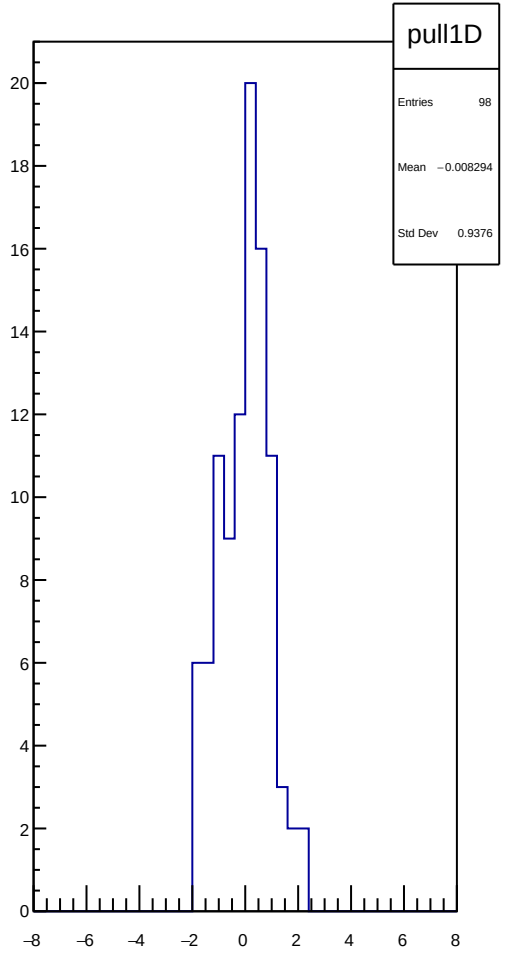

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 2236 / 97
p0 67.29 ± 0.0483
78
76
74
72
70
68
66
64
62

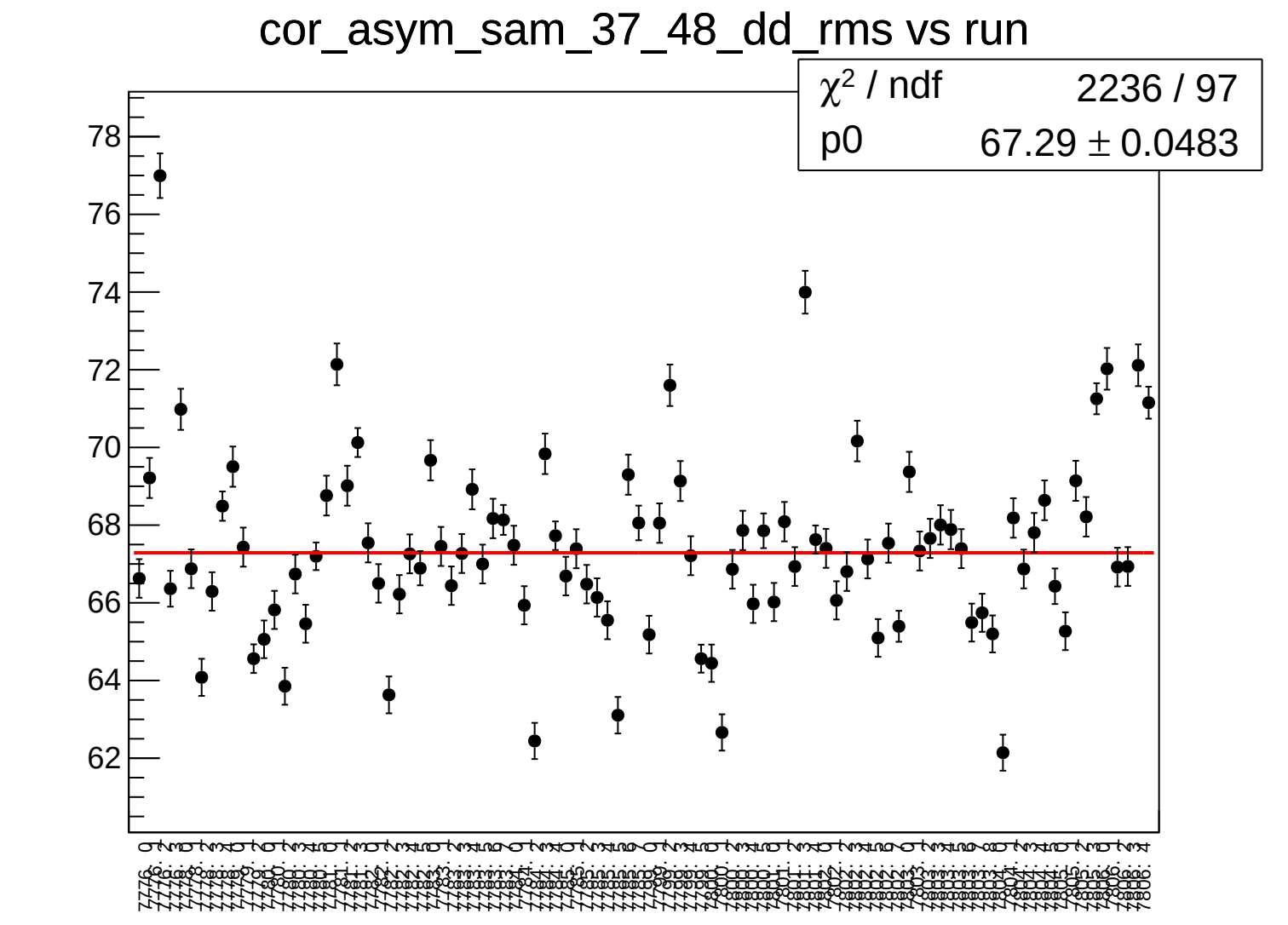

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 79.78 / 97
p0 75.97 ± 359.8
10000
5000
0
−5000
−10000
pull
Entries 98
Mean −1213
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

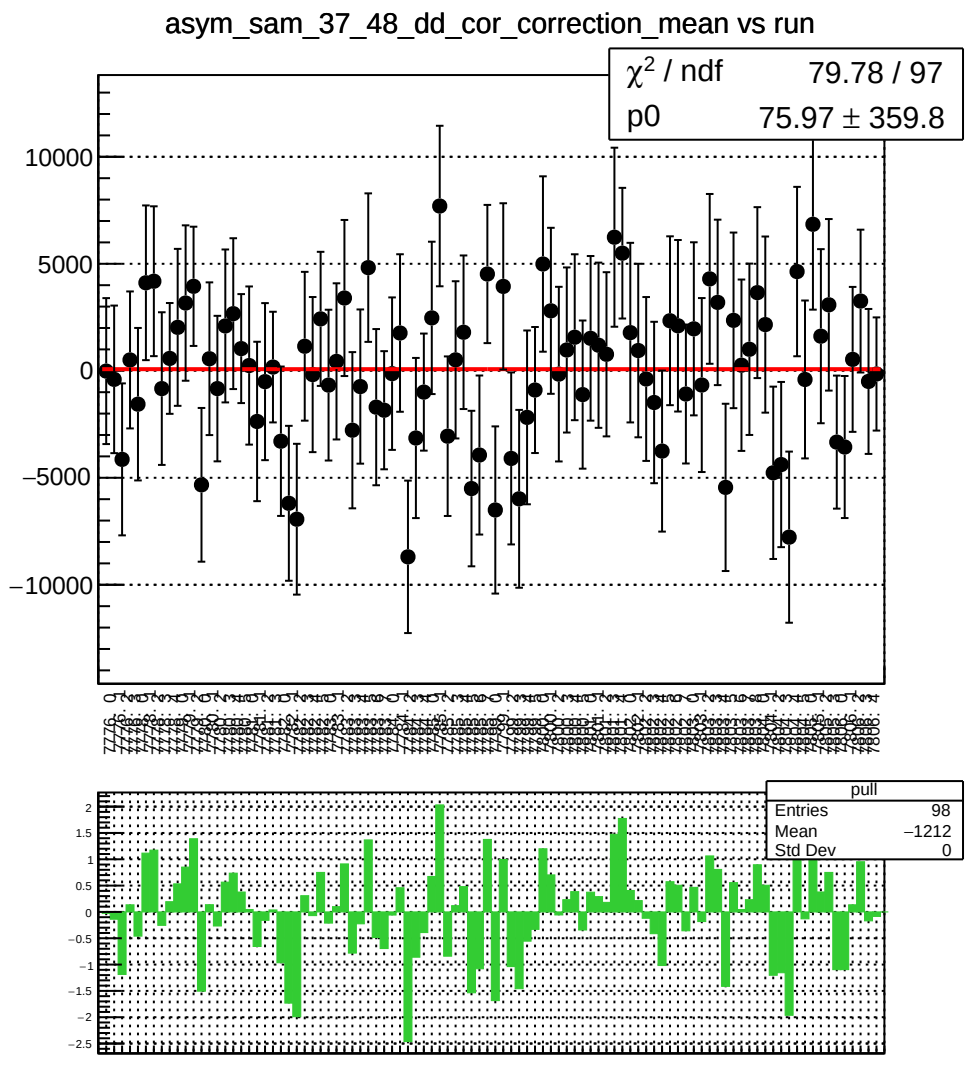

pull1D
Entries 98
Mean −0.0008852
Std Dev 0.9022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

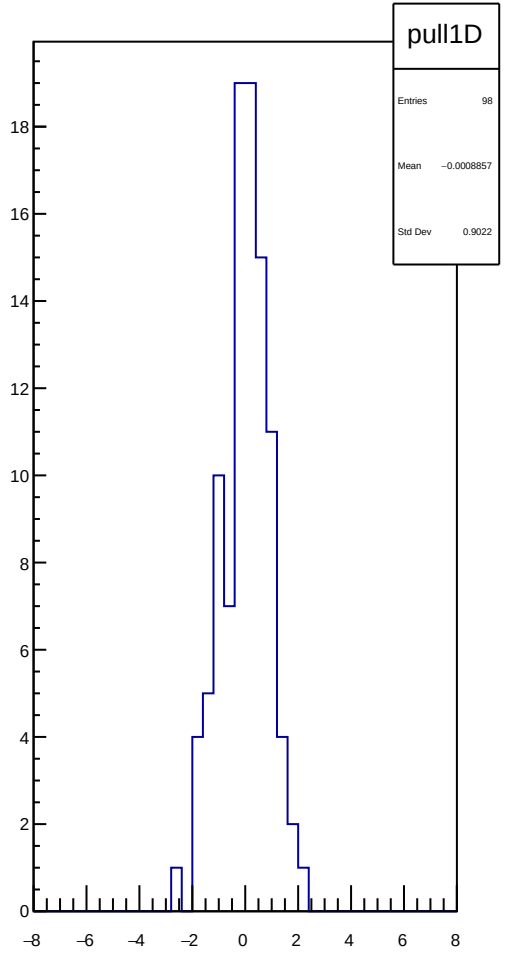

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 7374 / 97
p0 353.9 ± 0.2544
400
380
360
340
320

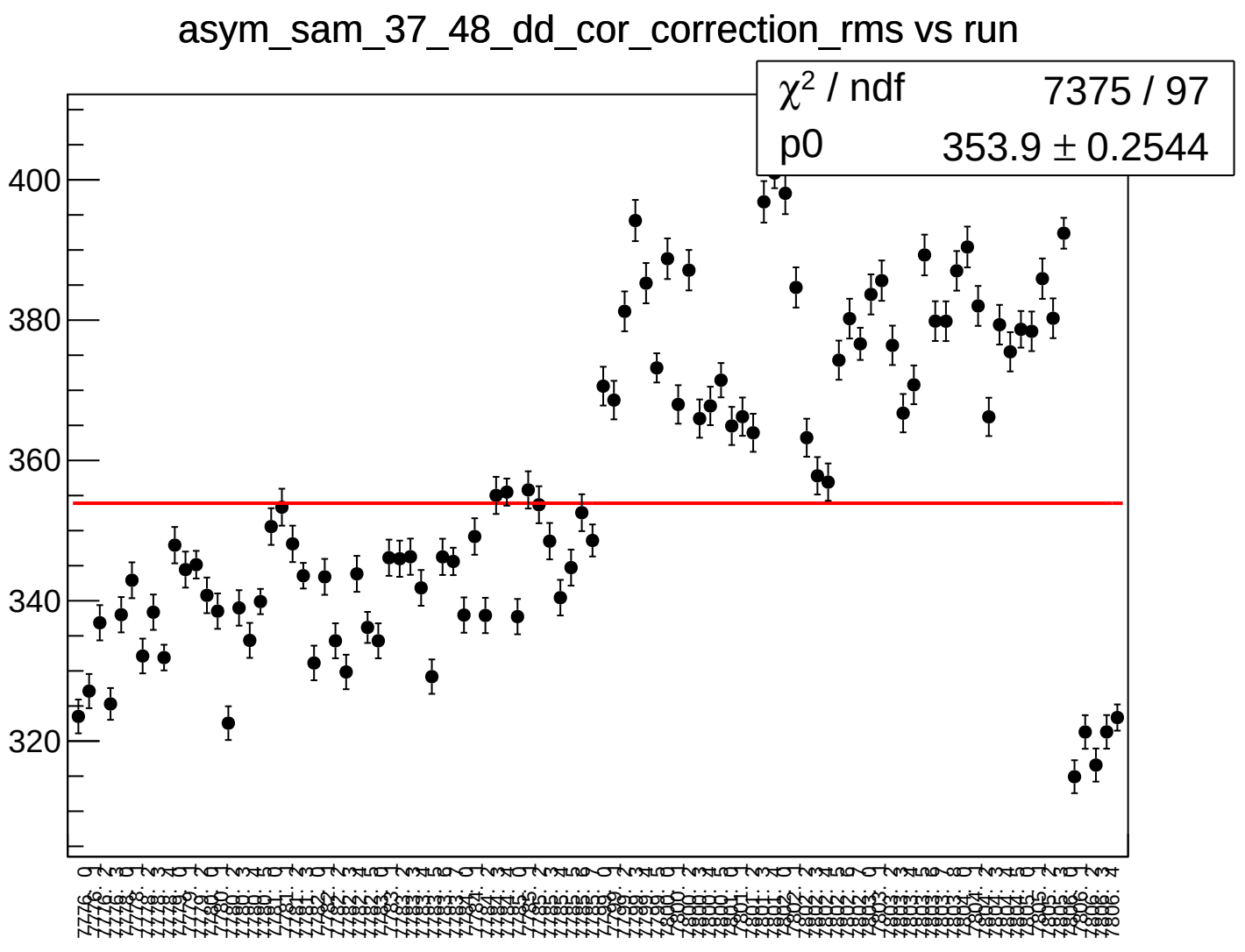

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 86.16 / 97
p0 −132.7 ± 68.31
2000
1000
0
−1000
−2000
pull
Entries 98
Mean −532.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

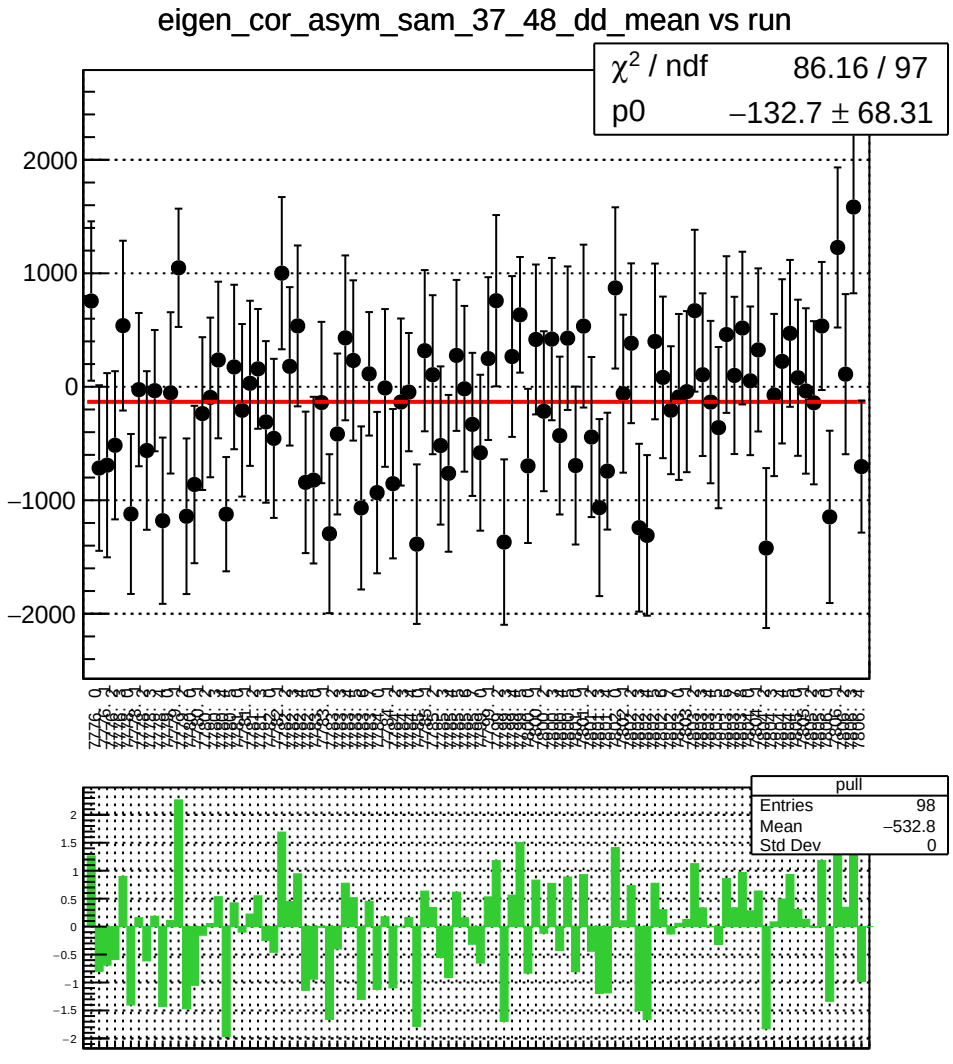

pull1D
Entries 98
Mean −0.008294
Std Dev 0.9376
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

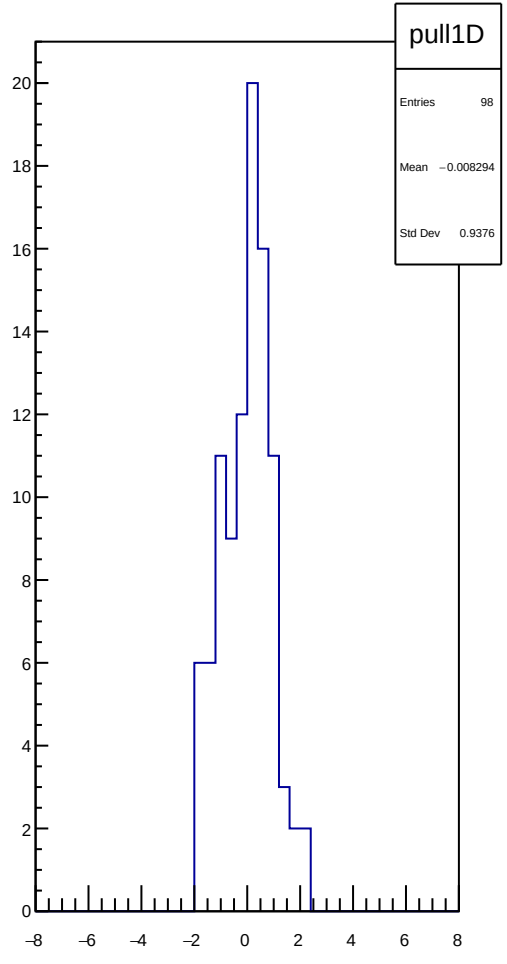

cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2236 / 97
p0 67.29 ± 0.0483
78
76
74
72
70
68
66
64
62

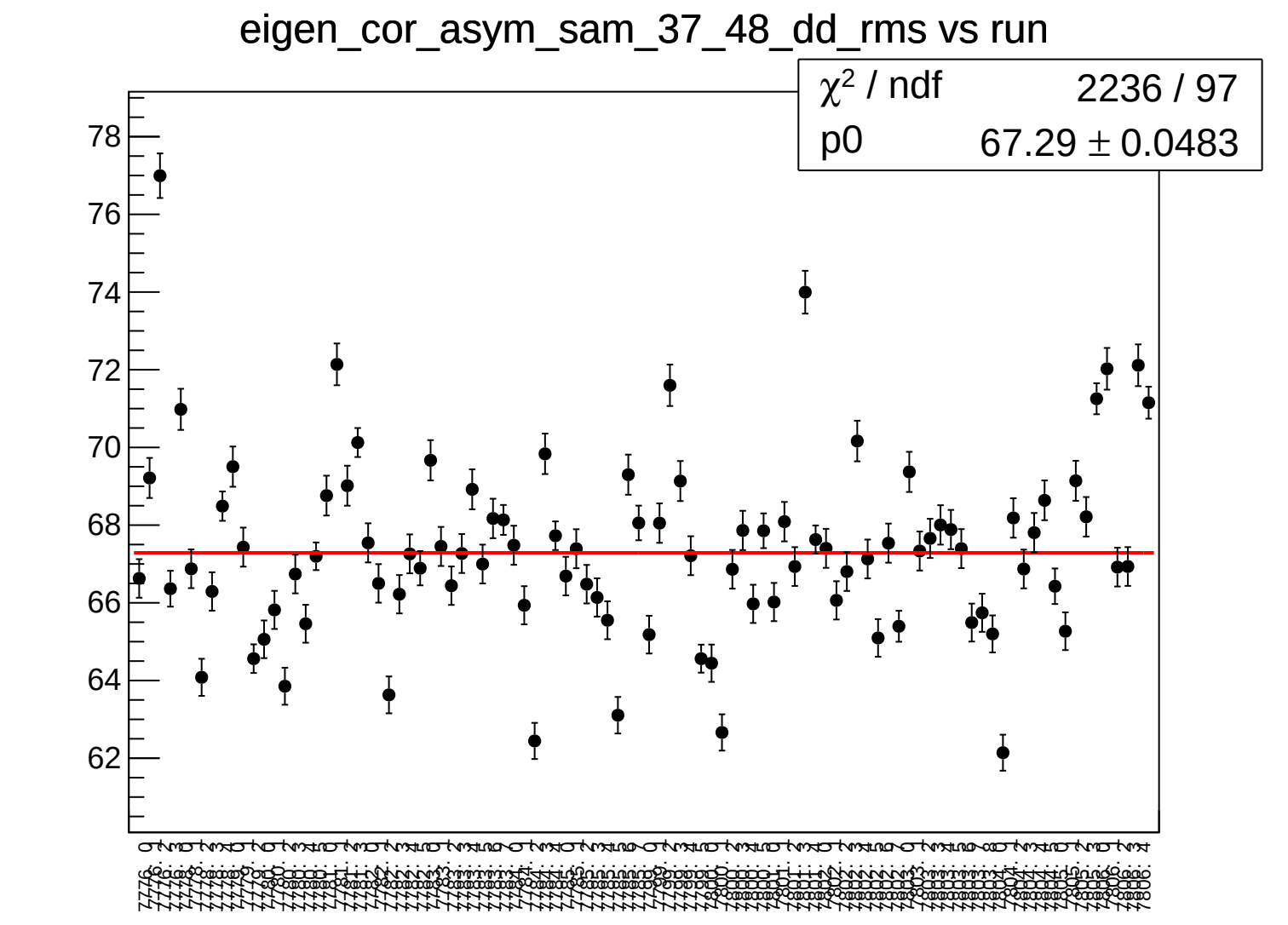

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 79.78 / 97
p0 75.97 ± 359.8
10000
5000
0
−5000
−10000
pull
Entries 98
Mean −1212
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

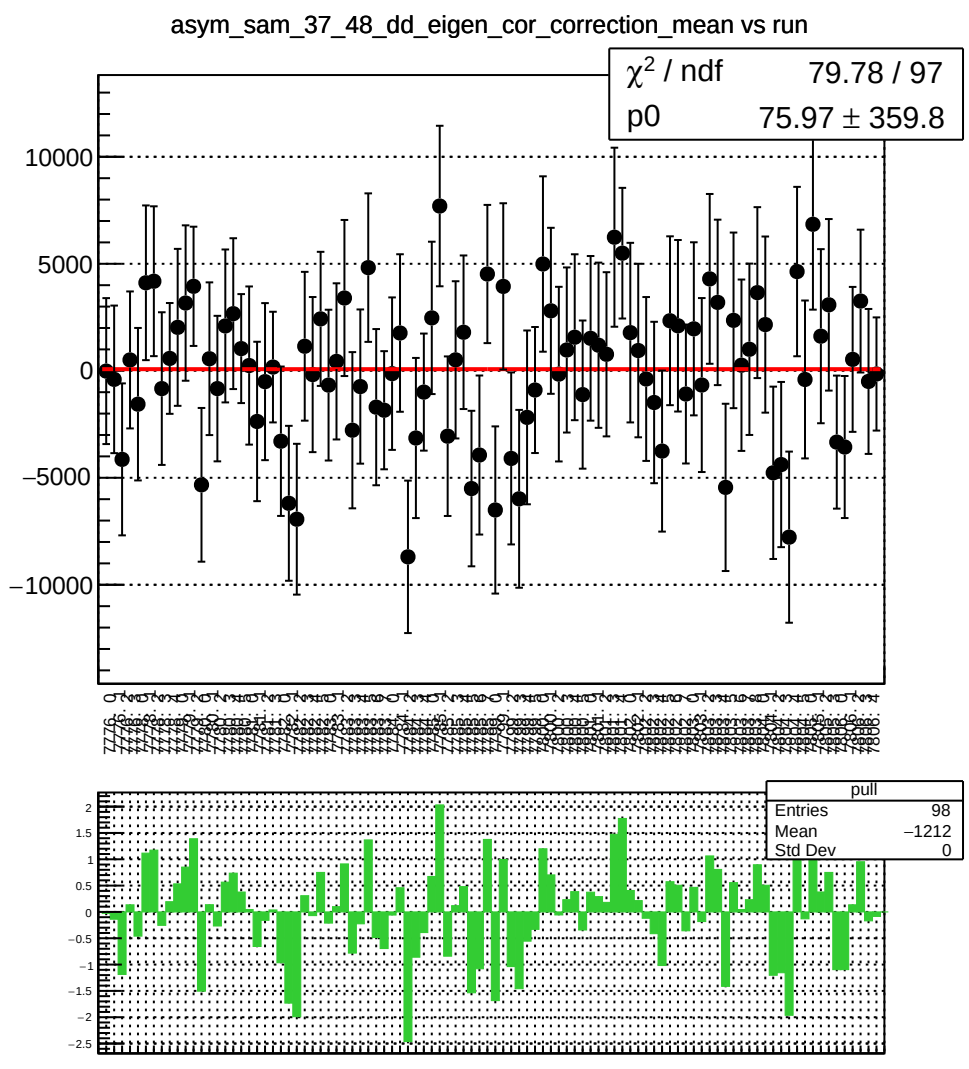

pull1D
Entries 98
Mean −0.0008857
Std Dev 0.9022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

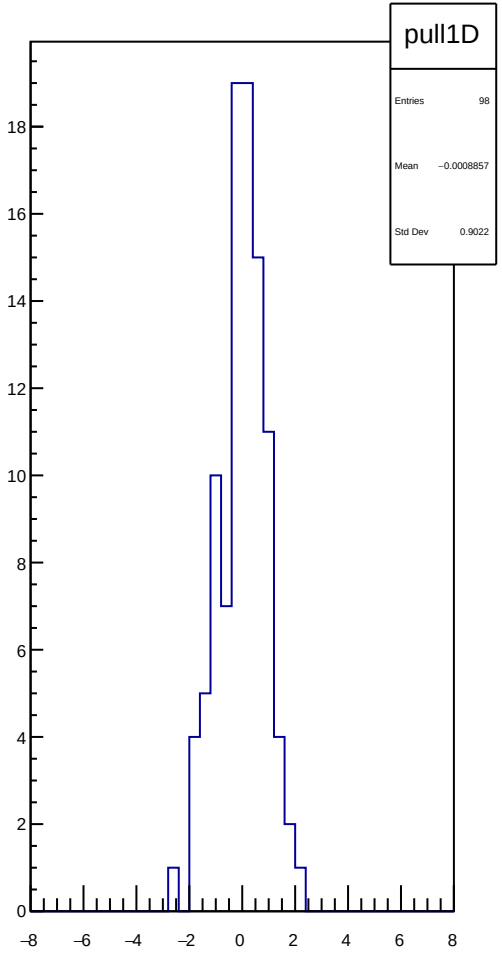

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 7375 / 97
p0 353.9 ± 0.2544
400
380
360
340
320

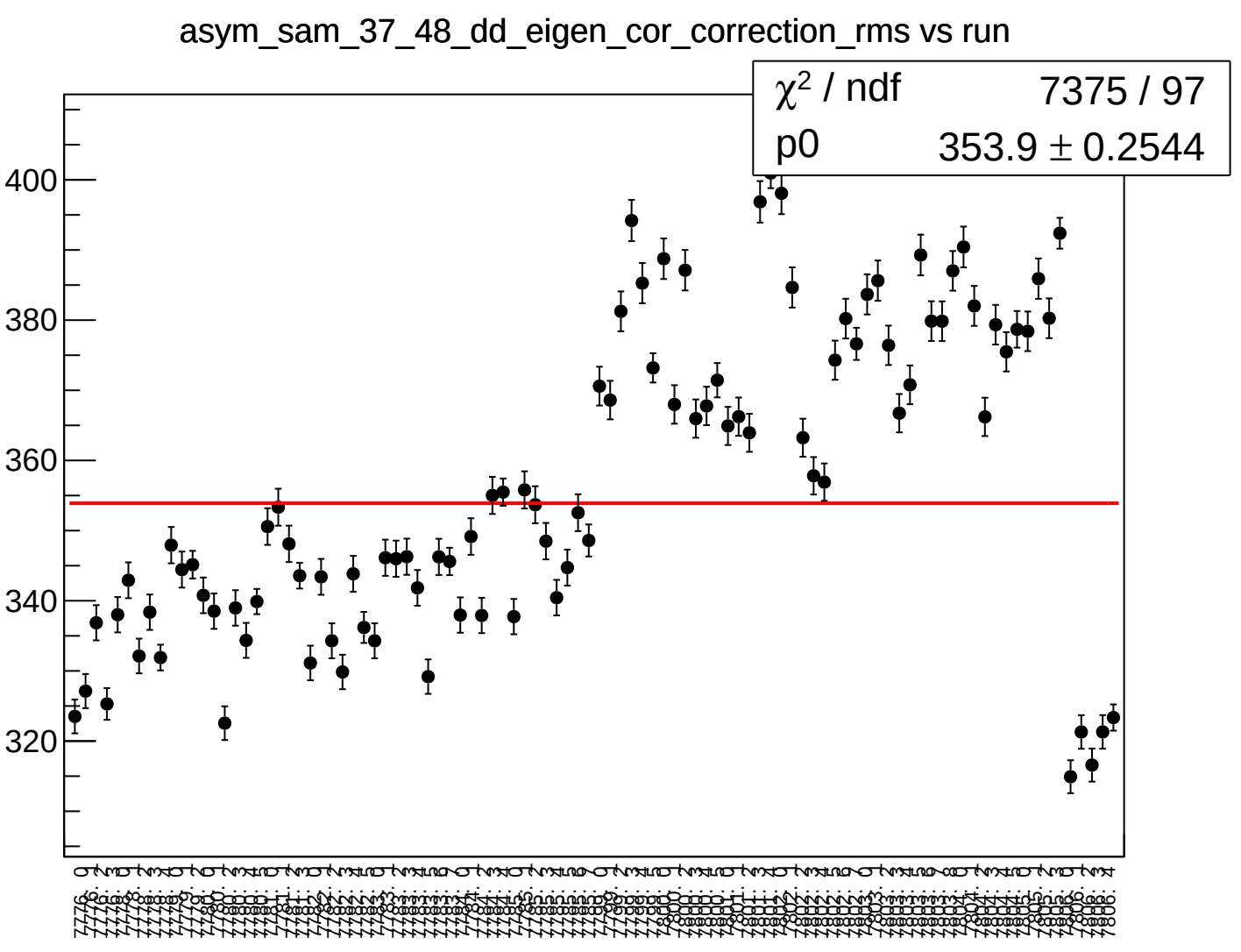

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 86.16 / 97
p0 −132.7 ± 68.31
2000
1000
0
−1000
−2000
pull
Entries 98
Mean −532.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

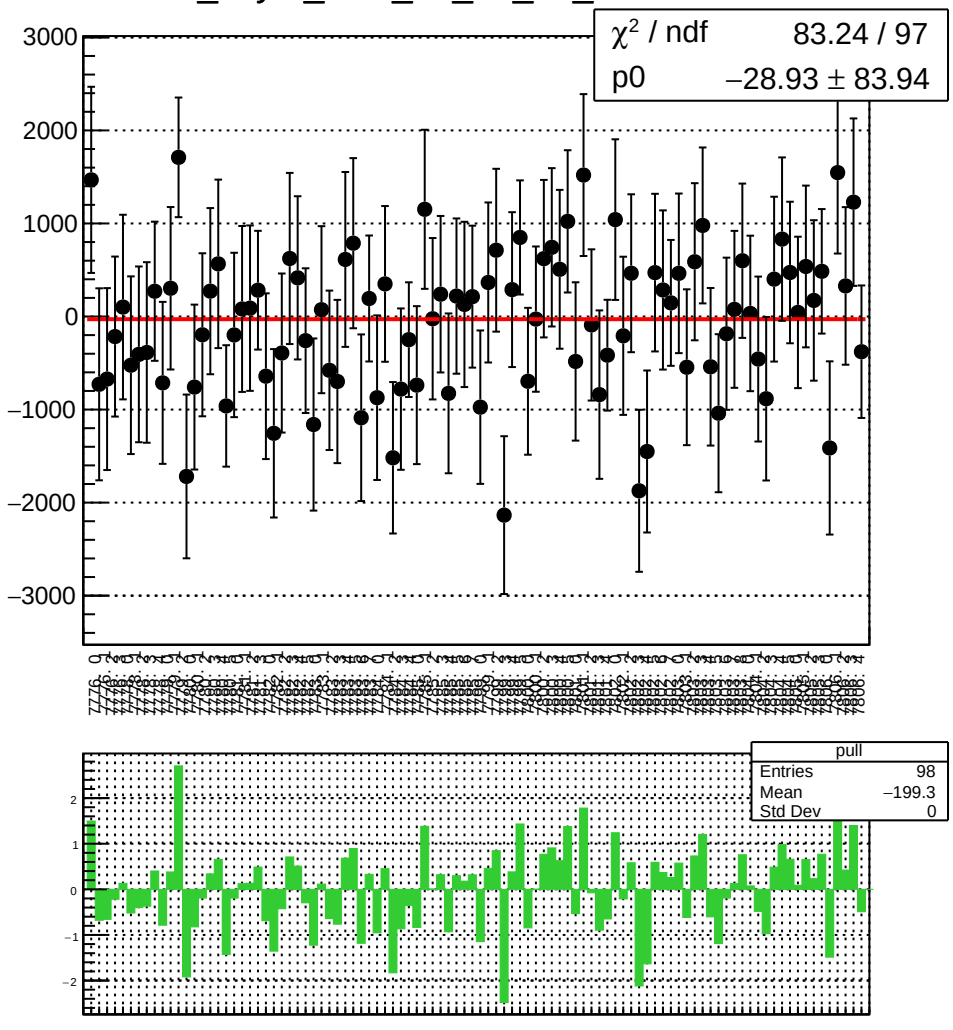

pull1D
Entries 98
Mean −0.008294
Std Dev 0.9376
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

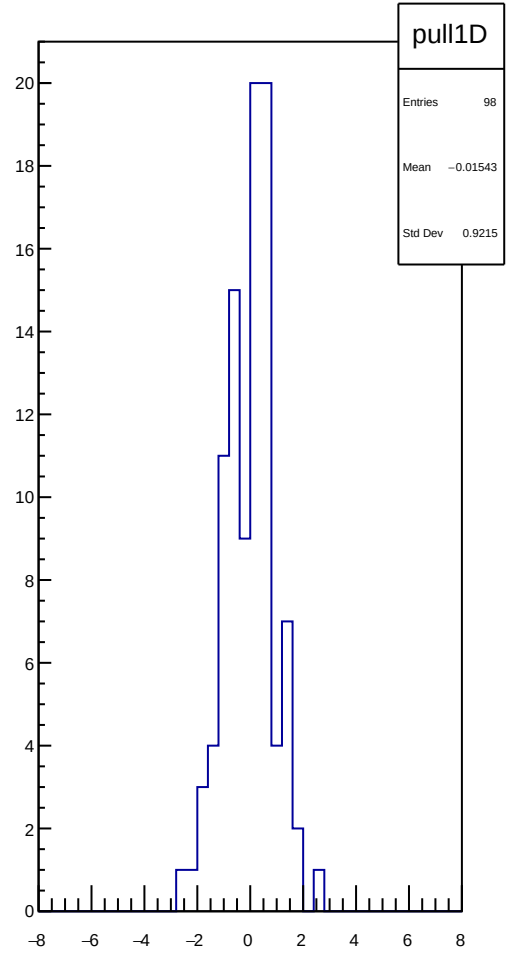

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2236 / 97
p0 67.29 ± 0.0483
78
76
74
72
70
68
66
64
62

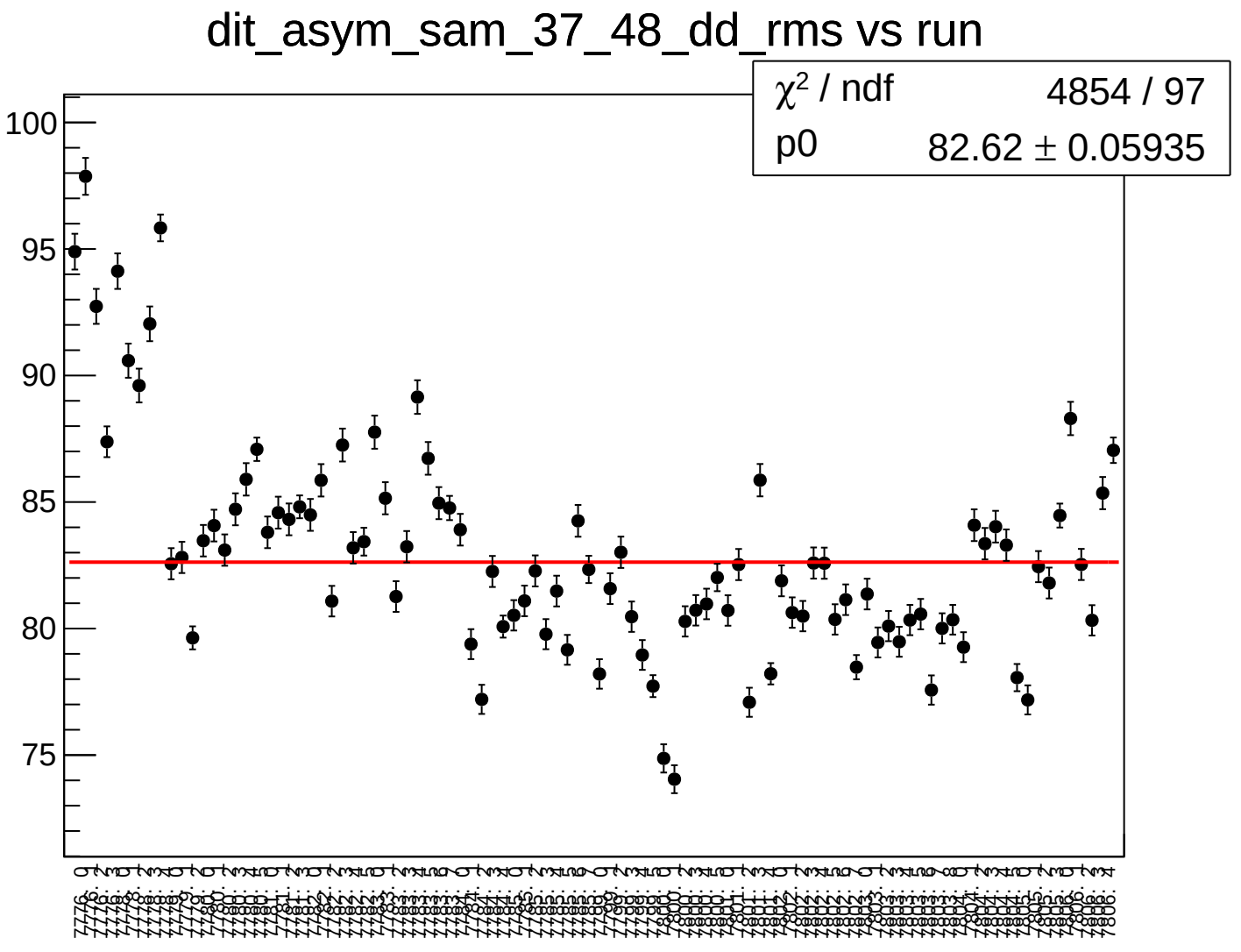

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.78 / 97
p0 75.97 ± 359.8
10000
5000
0
−5000
−10000
pull
Entries 98
Mean −1212
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

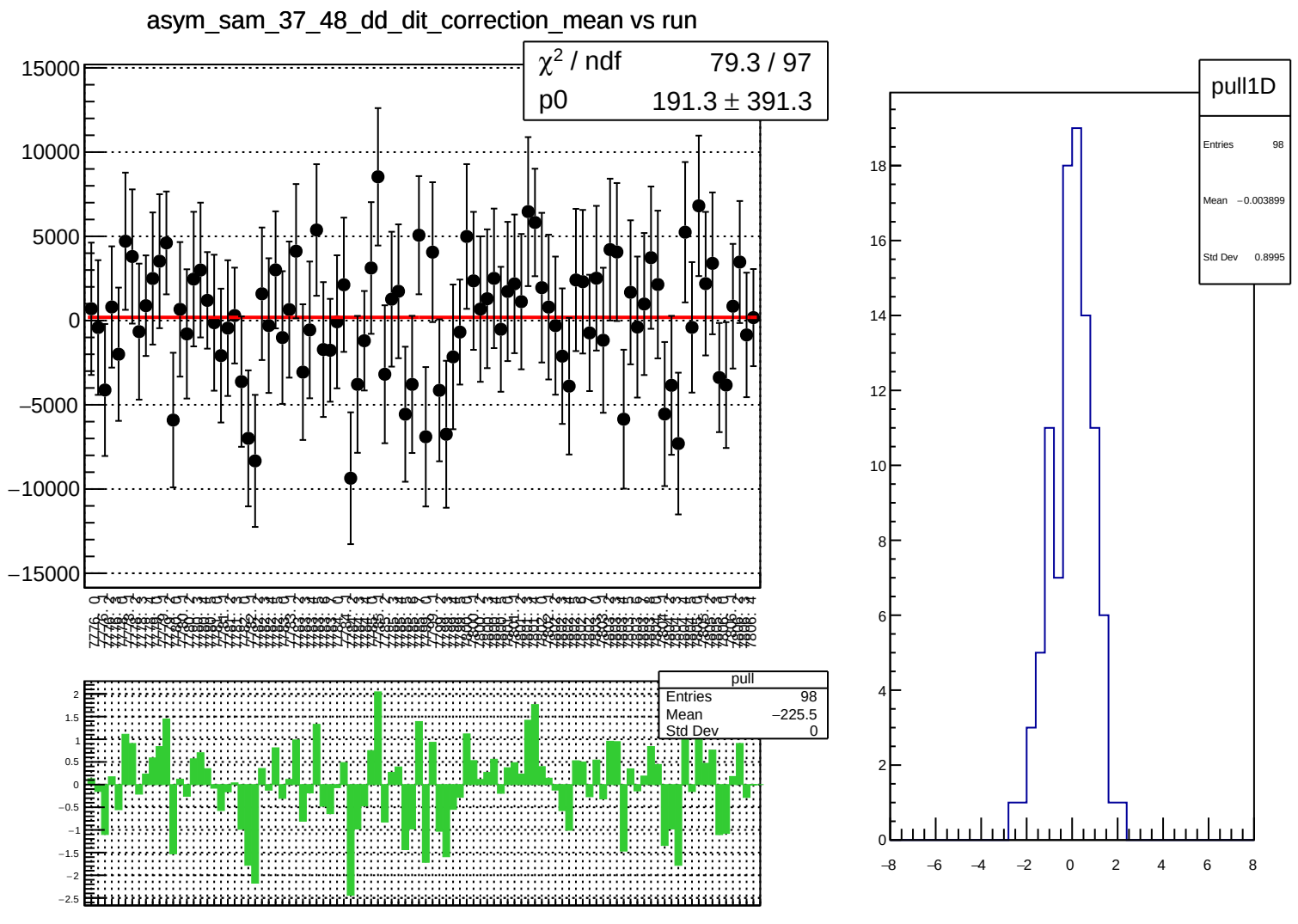

pull1D
Entries 98
Mean −0.0008857
Std Dev 0.9022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

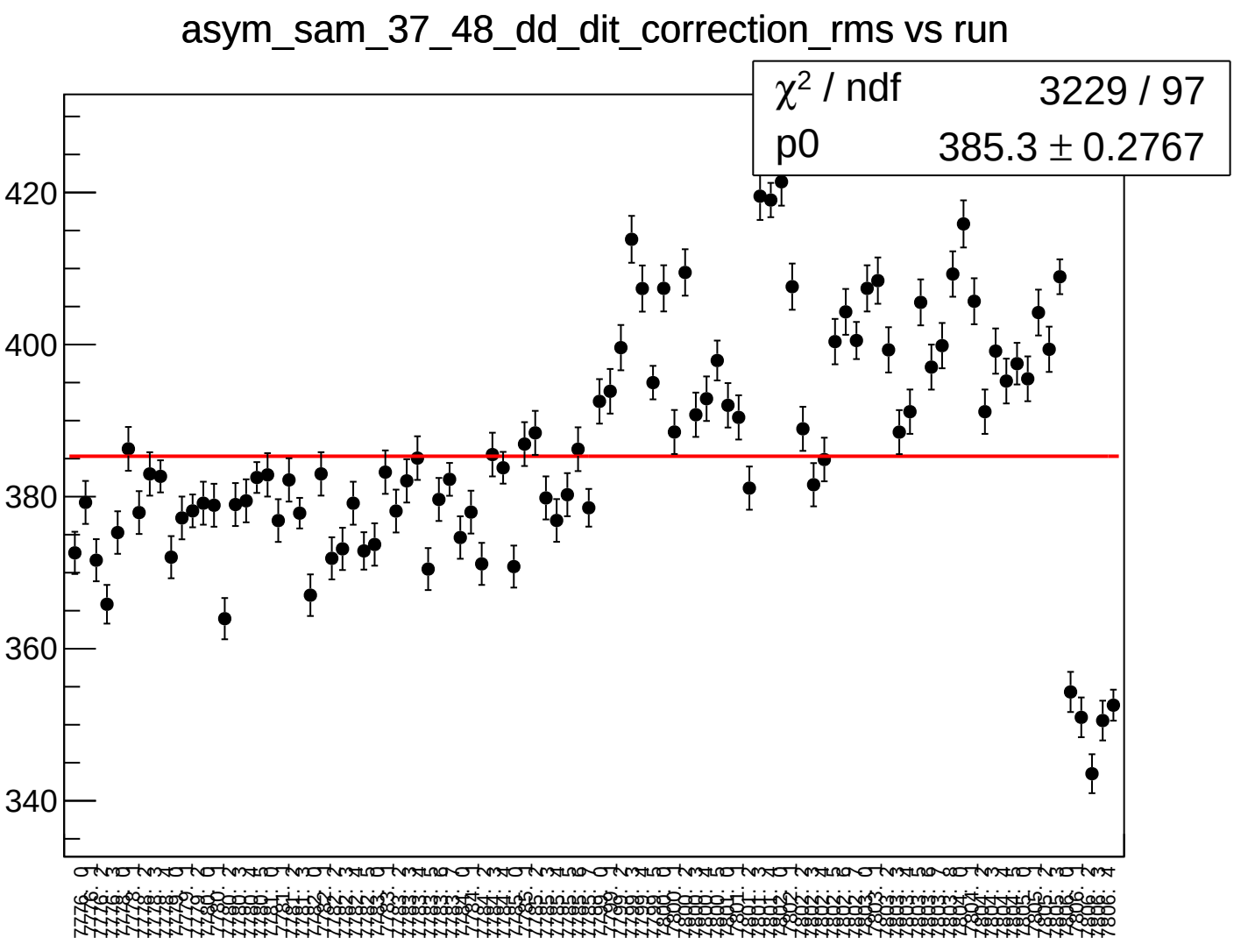

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7375 / 97
p0 353.9 ± 0.2544
400
380
360
340
320

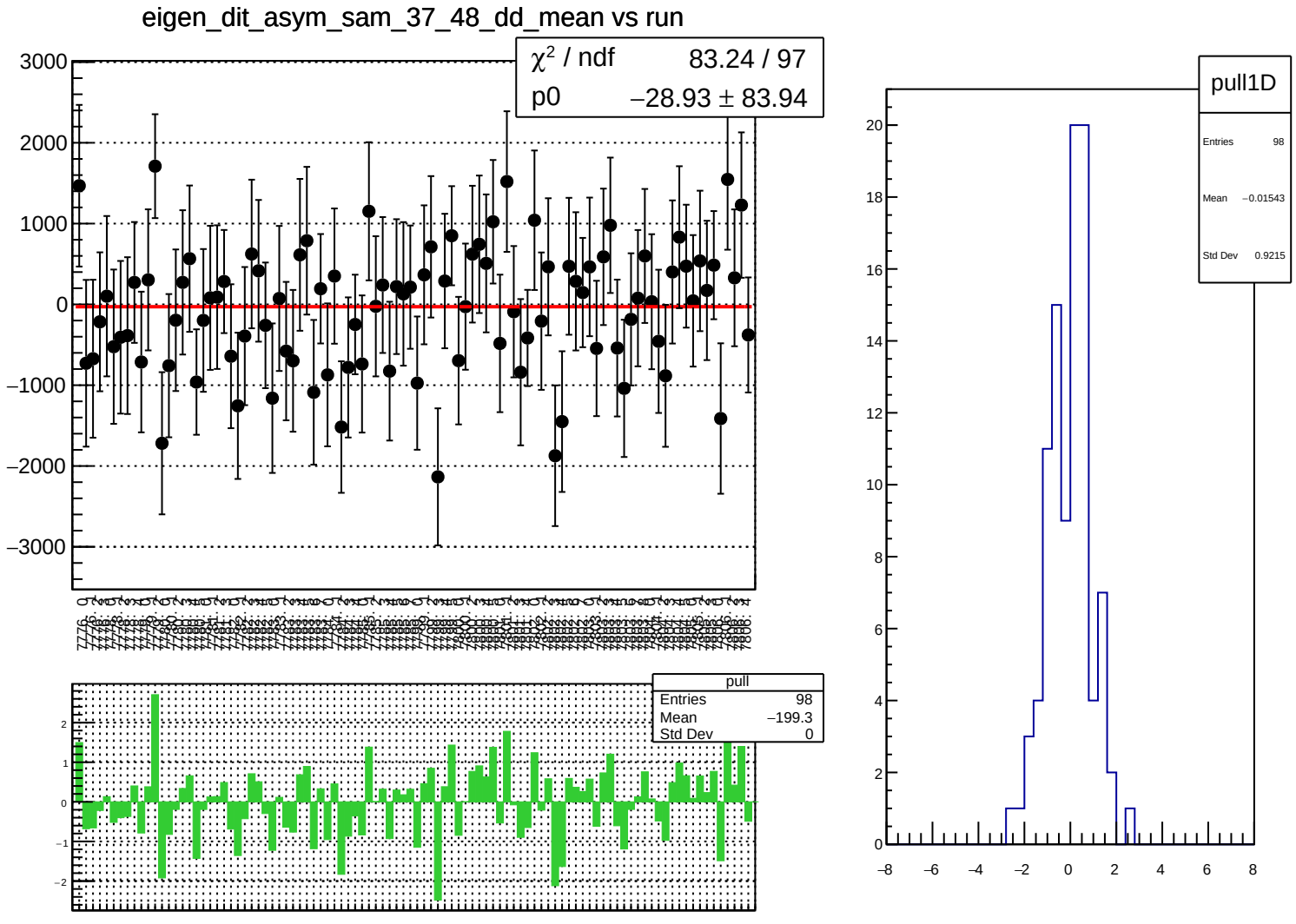

dit_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 83.24 / 97
p0 −28.93 ± 83.94
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean −199.3
Std Dev 0
2
1
0
−1
−2

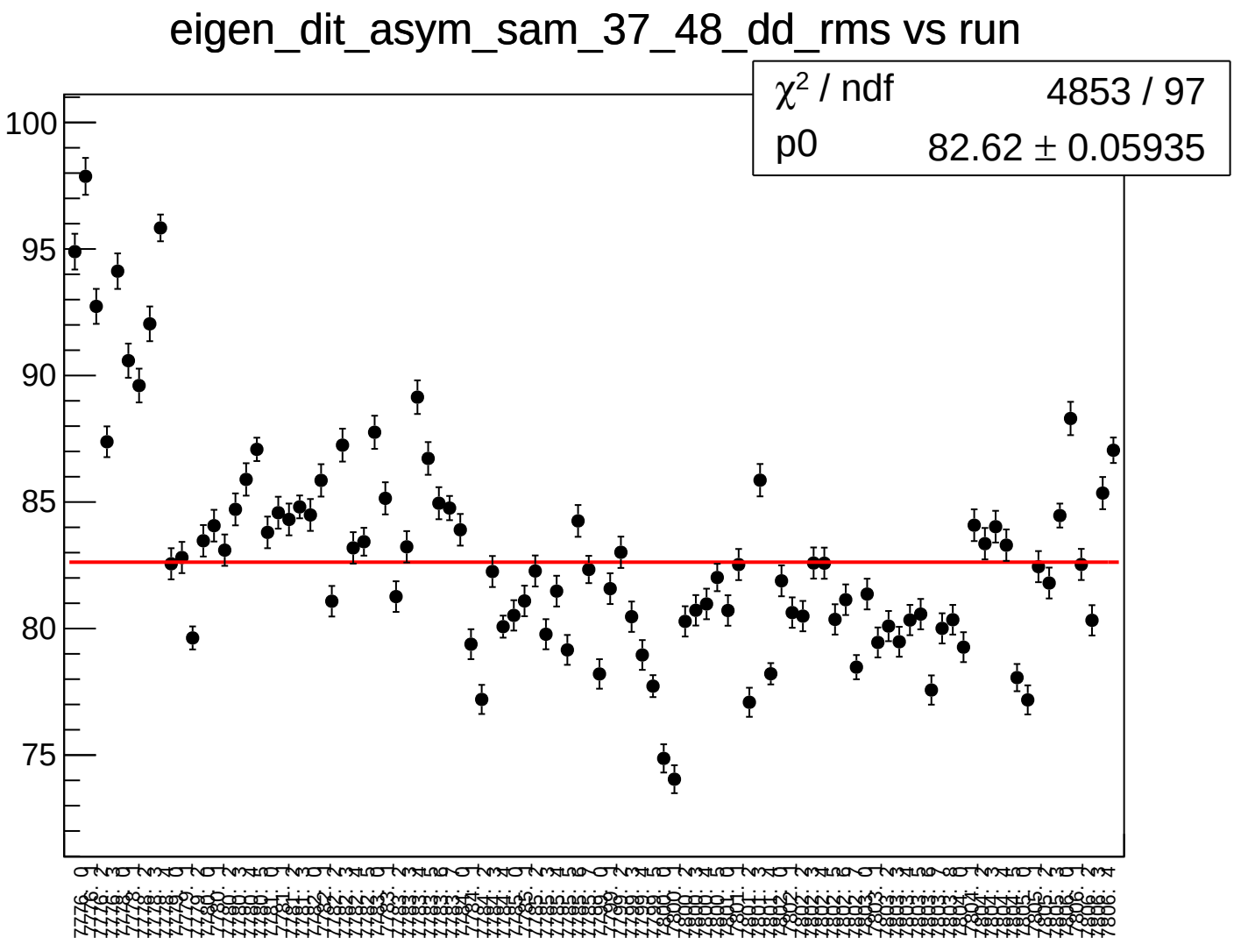

pull1D
Entries 98
Mean −0.01543
Std Dev 0.9215
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

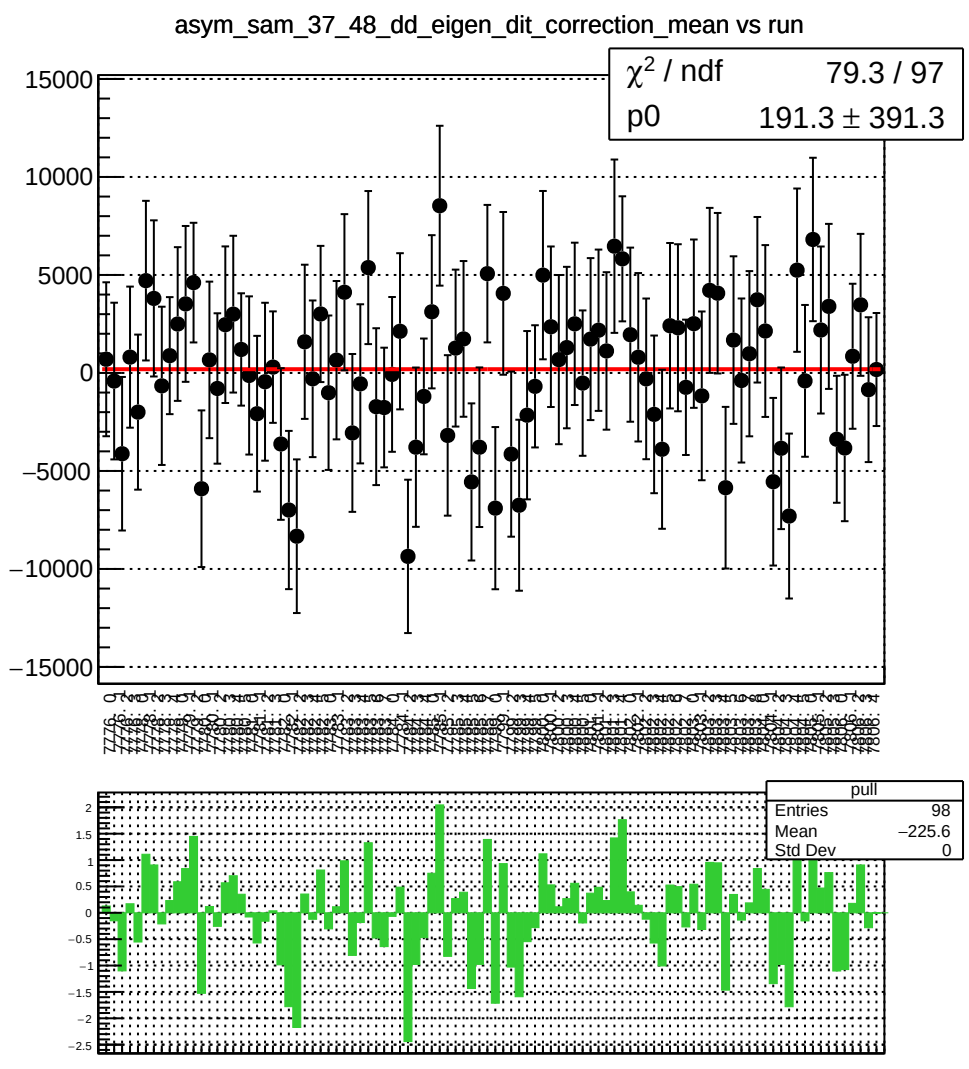

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4854 / 97
p0 82.62 ± 0.05935
100
95
90
85
80
75

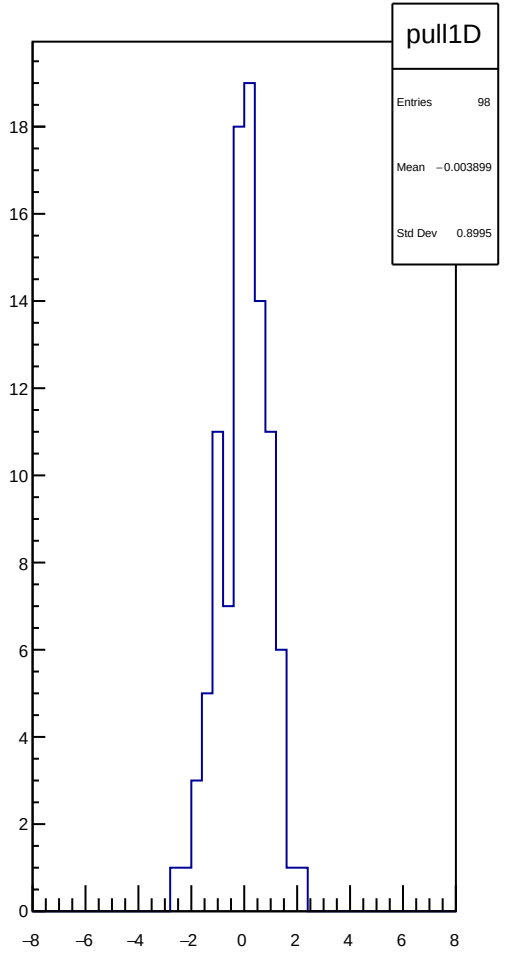

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 79.3 / 97
p0 191.3 ± 391.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean −225.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 98
Mean −0.003899
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

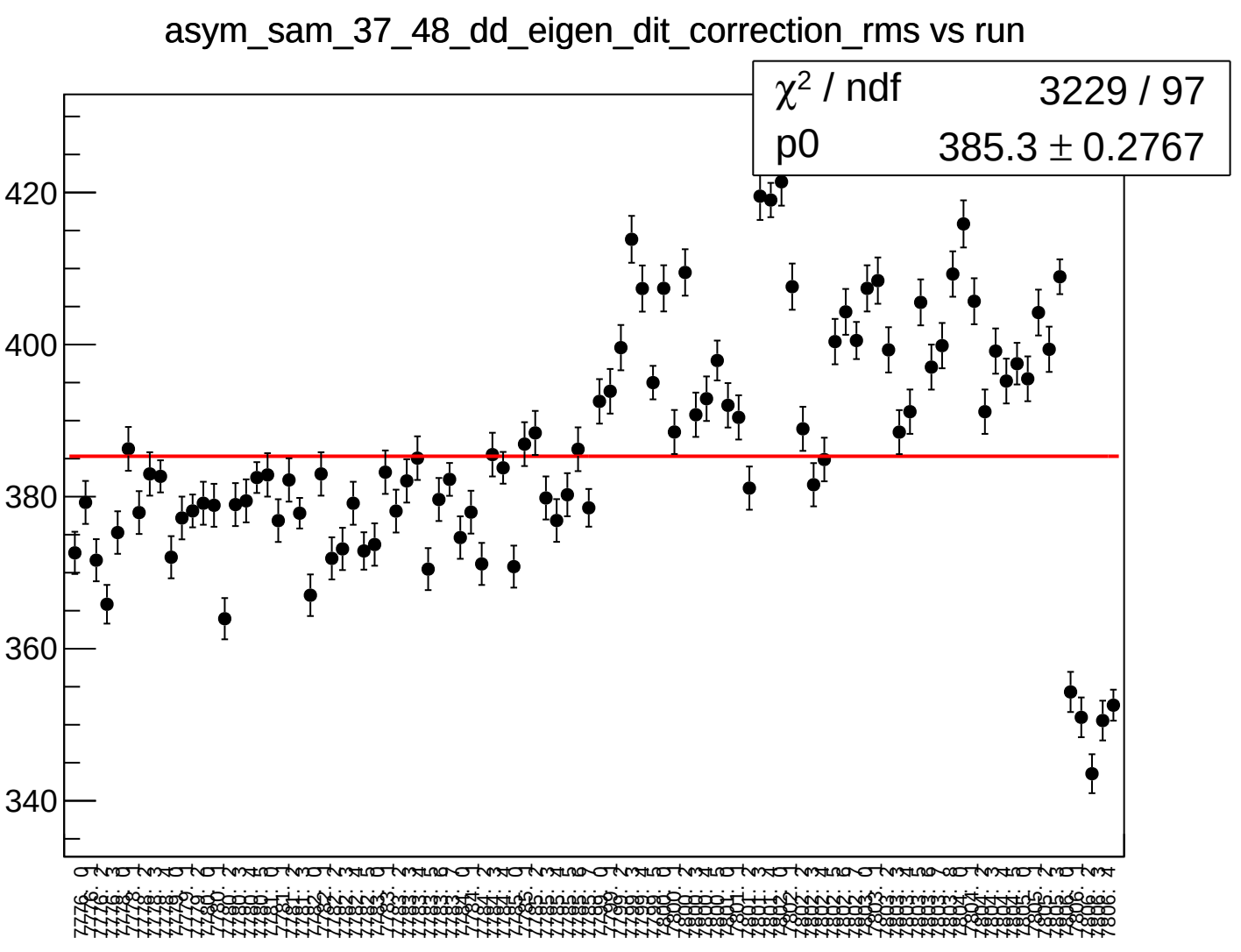

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 3229 / 97
p0 385.3 ± 0.2767
420
400
380
360
340

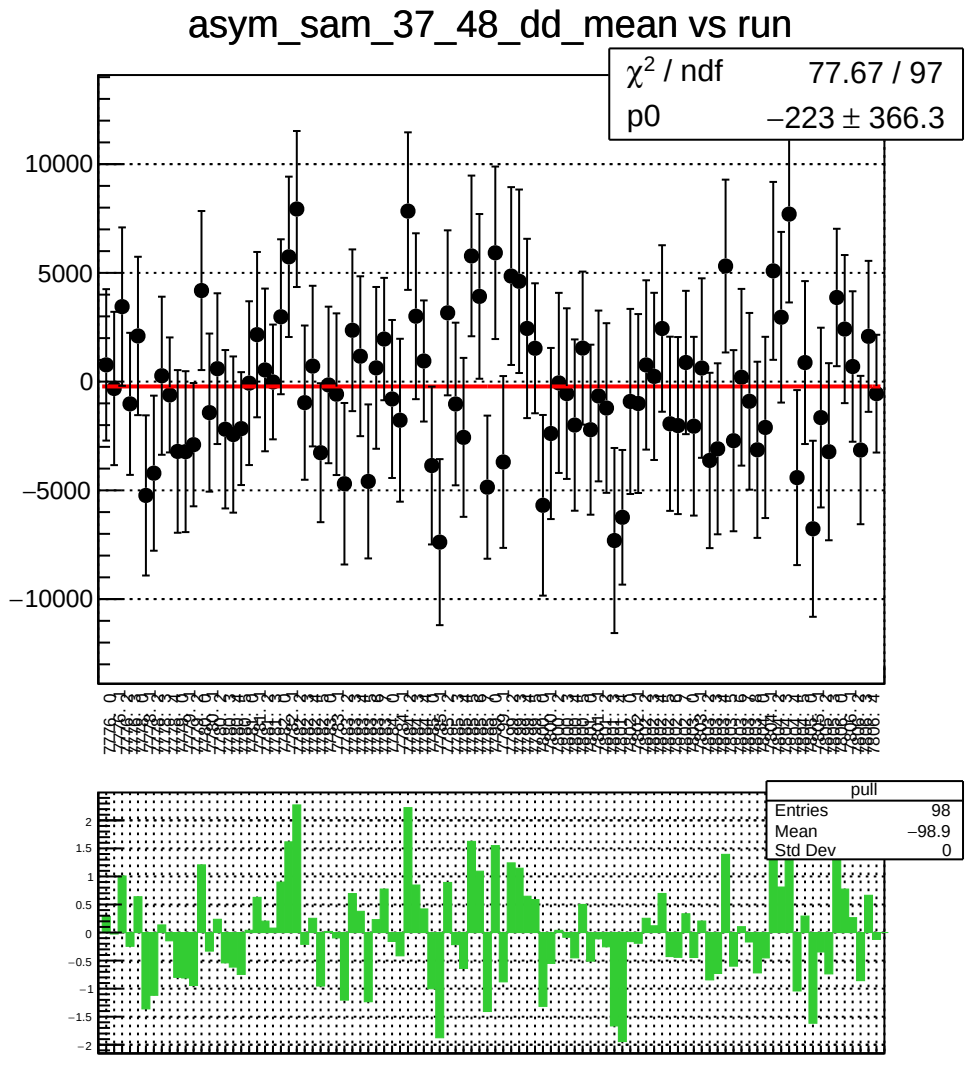

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 83.24 / 97
p0 −28.93 ± 83.94
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 98
Mean −199.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.01543
Std Dev 0.9215
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

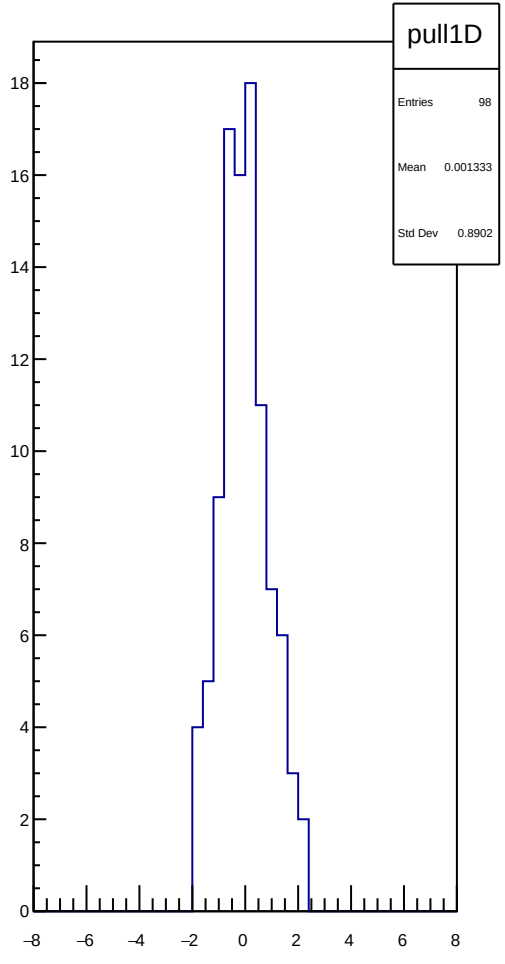

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4853 / 97
p0 82.62 ± 0.05935
100
95
90
85
80
75

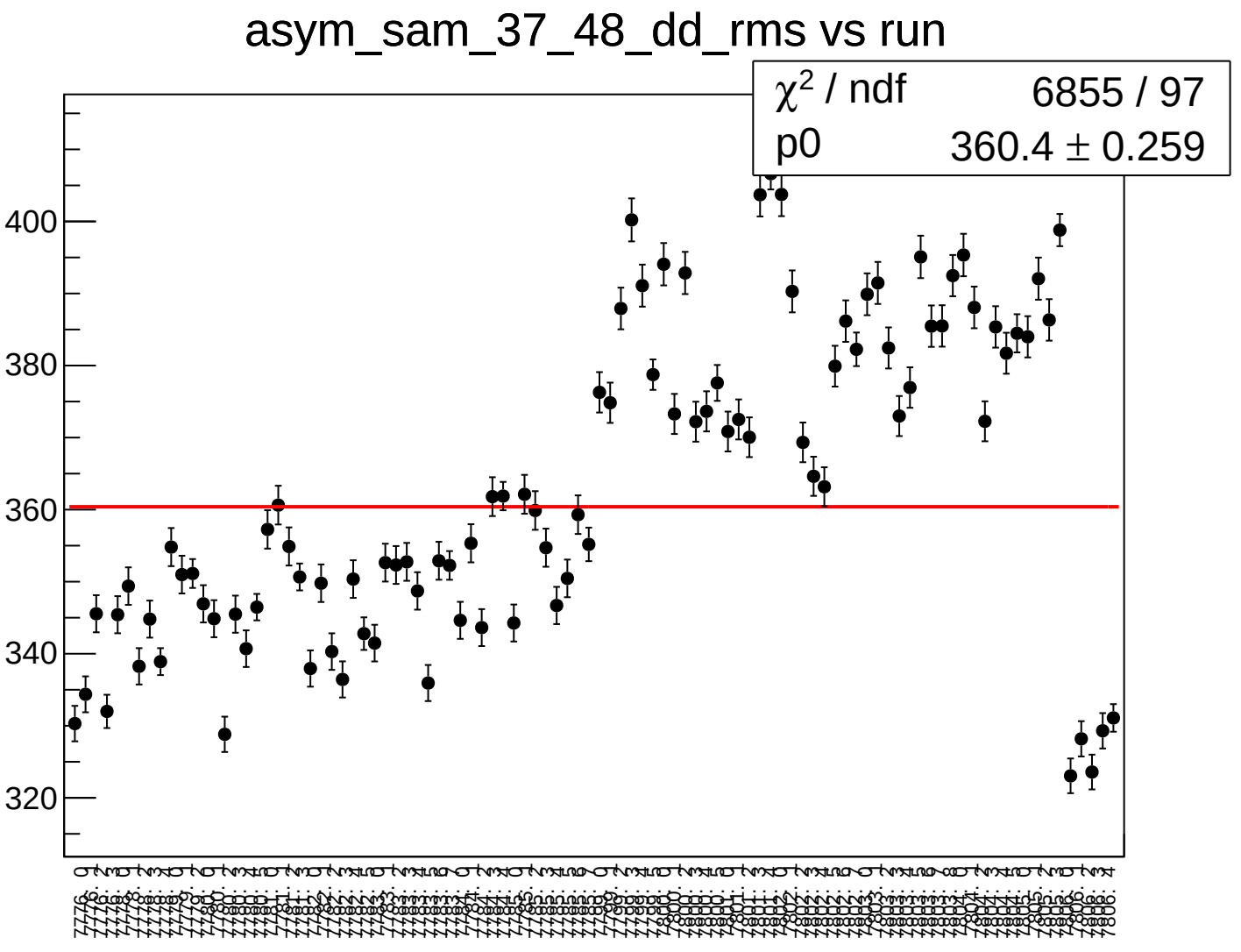

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.3 / 97
p0 191.3 ± 391.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 98
Mean −225.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

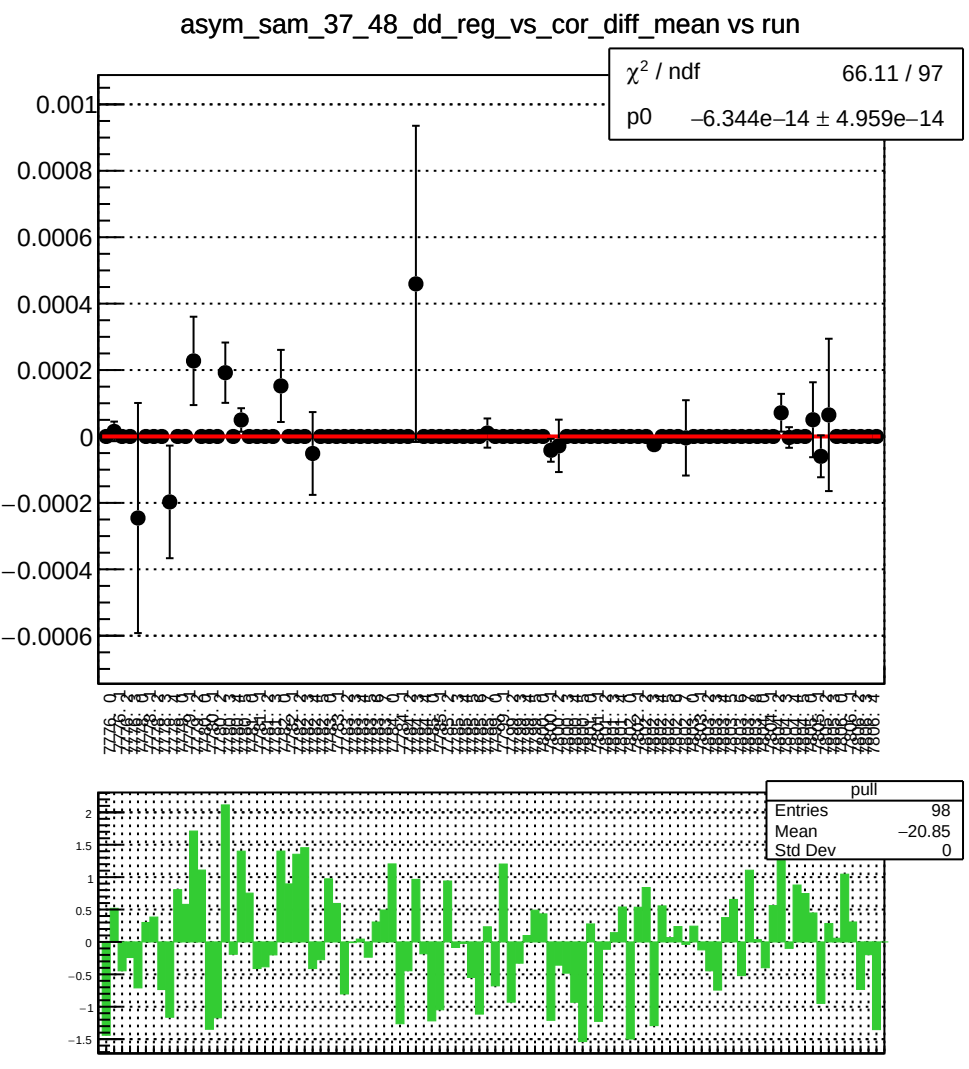

pull1D
Entries 98
Mean −0.003899
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

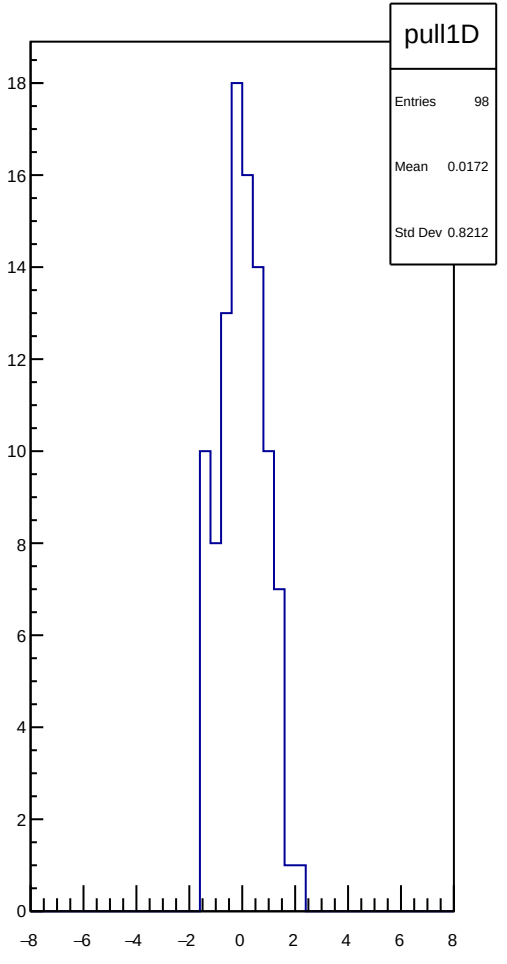

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3229 / 97
p0 385.3 ± 0.2767
420
400
380
360
340

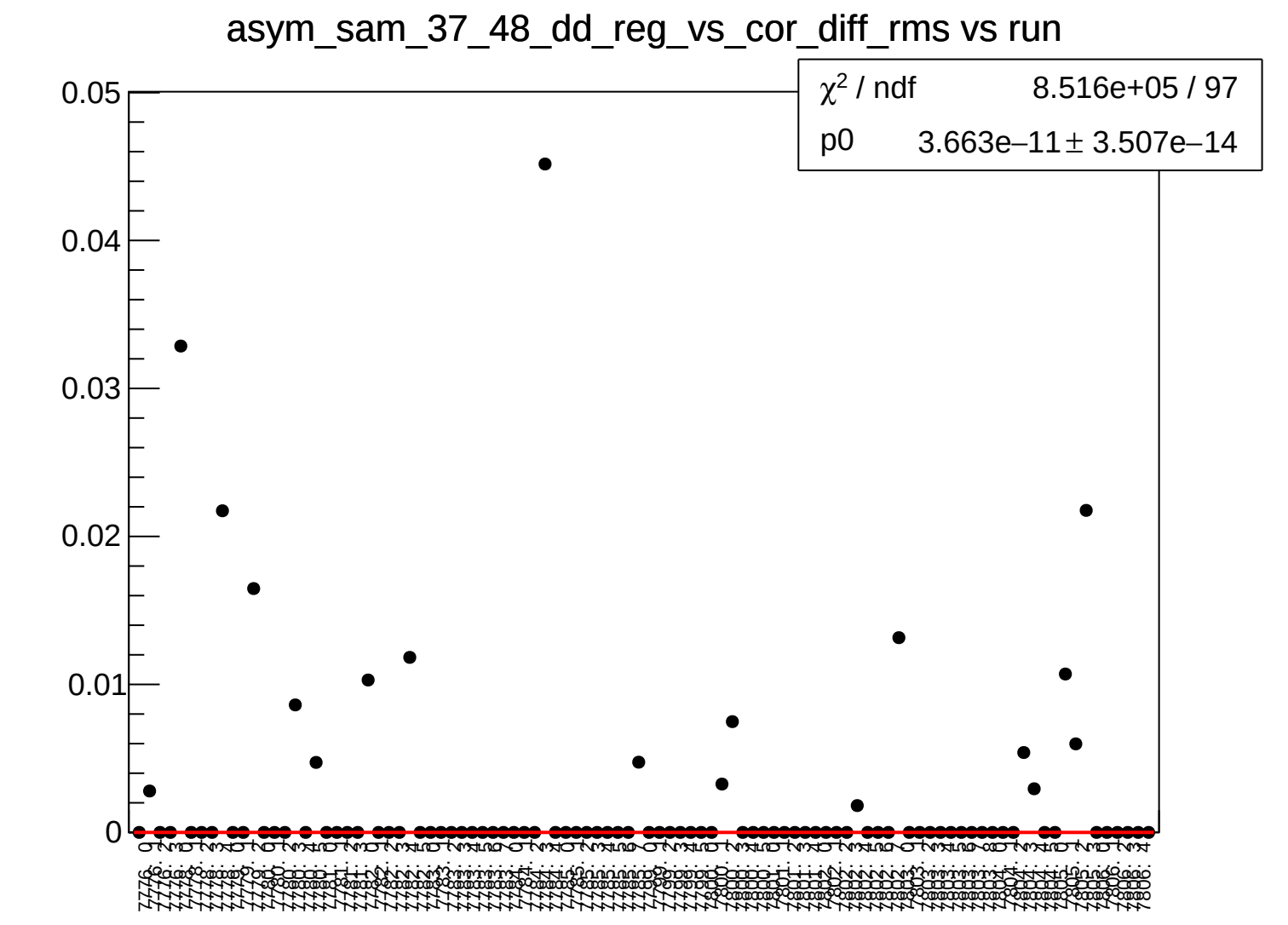

asym_sam_37_48_dd_mean vs run
χ² / ndf 77.67 / 97
p0 −223 ± 366.3
10000
5000
0
−5000
−10000
pull
Entries 98
Mean −98.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

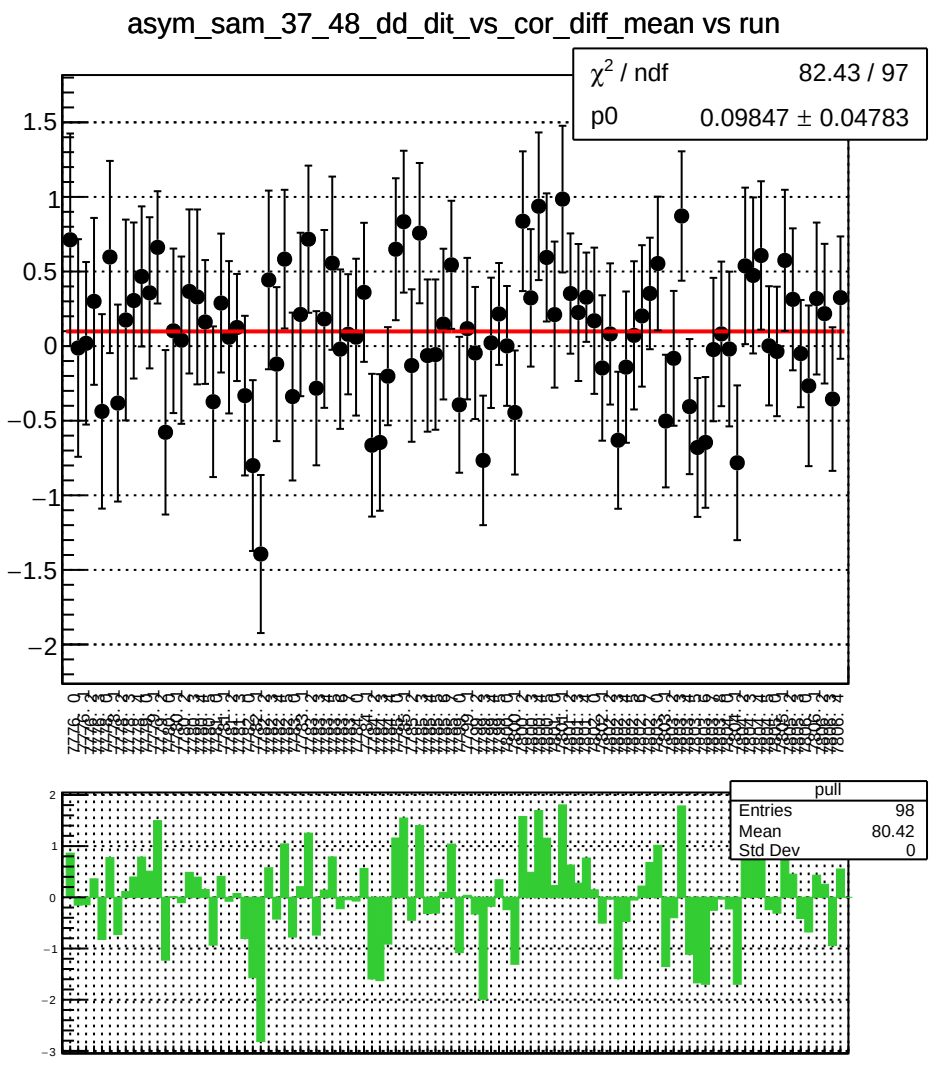

pull1D
Entries 98
Mean 0.001333
Std Dev 0.8902
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

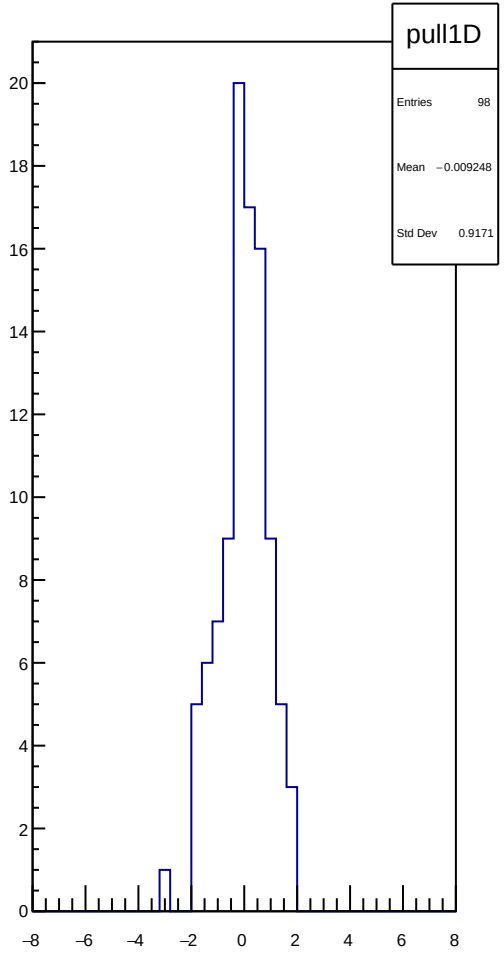

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6855 / 97
p0 360.4 ± 0.259
400
380
360
340
320

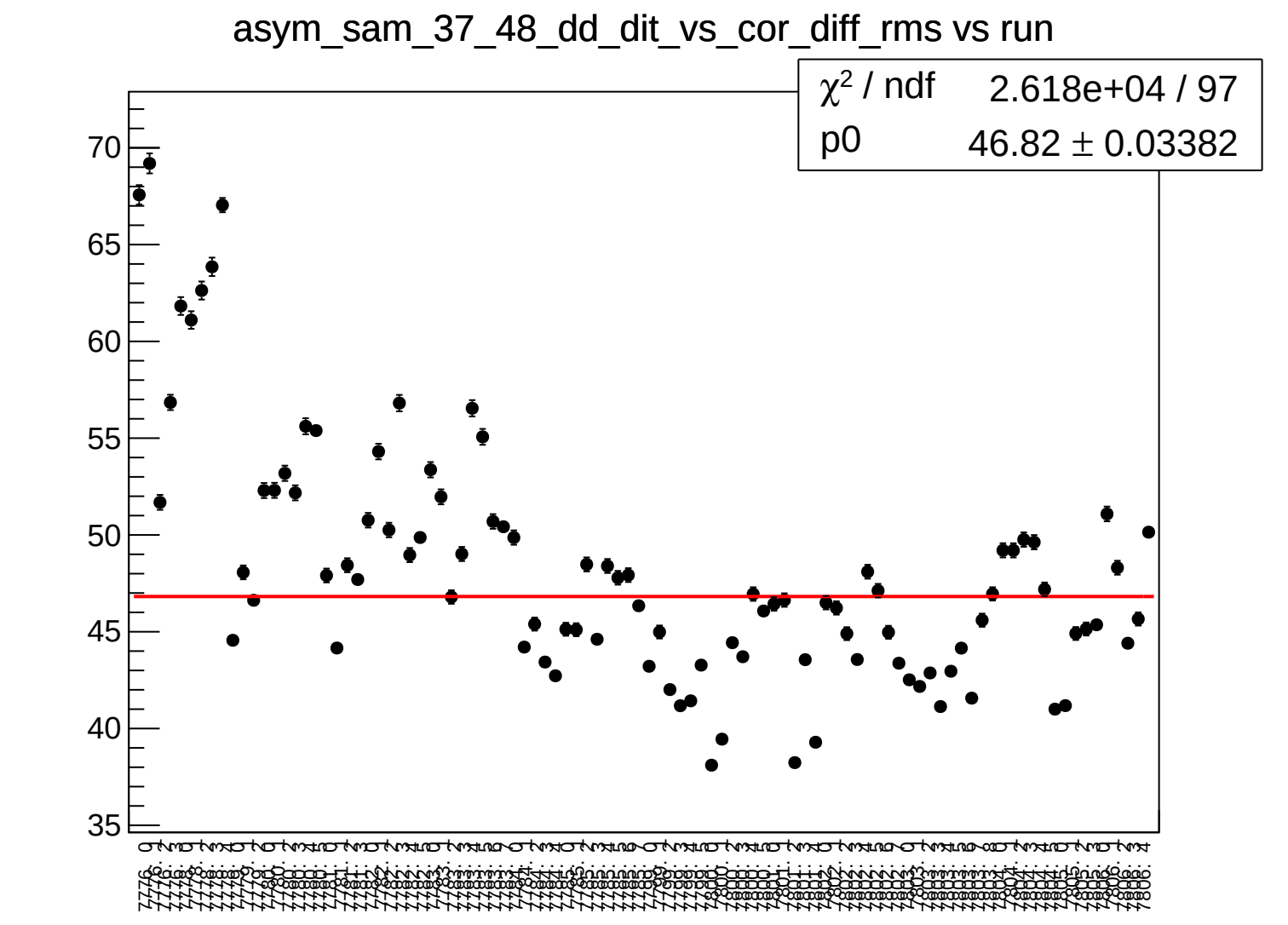

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.11 / 97
p0 −6.344e−14 ± 4.959e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 98
Mean −20.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

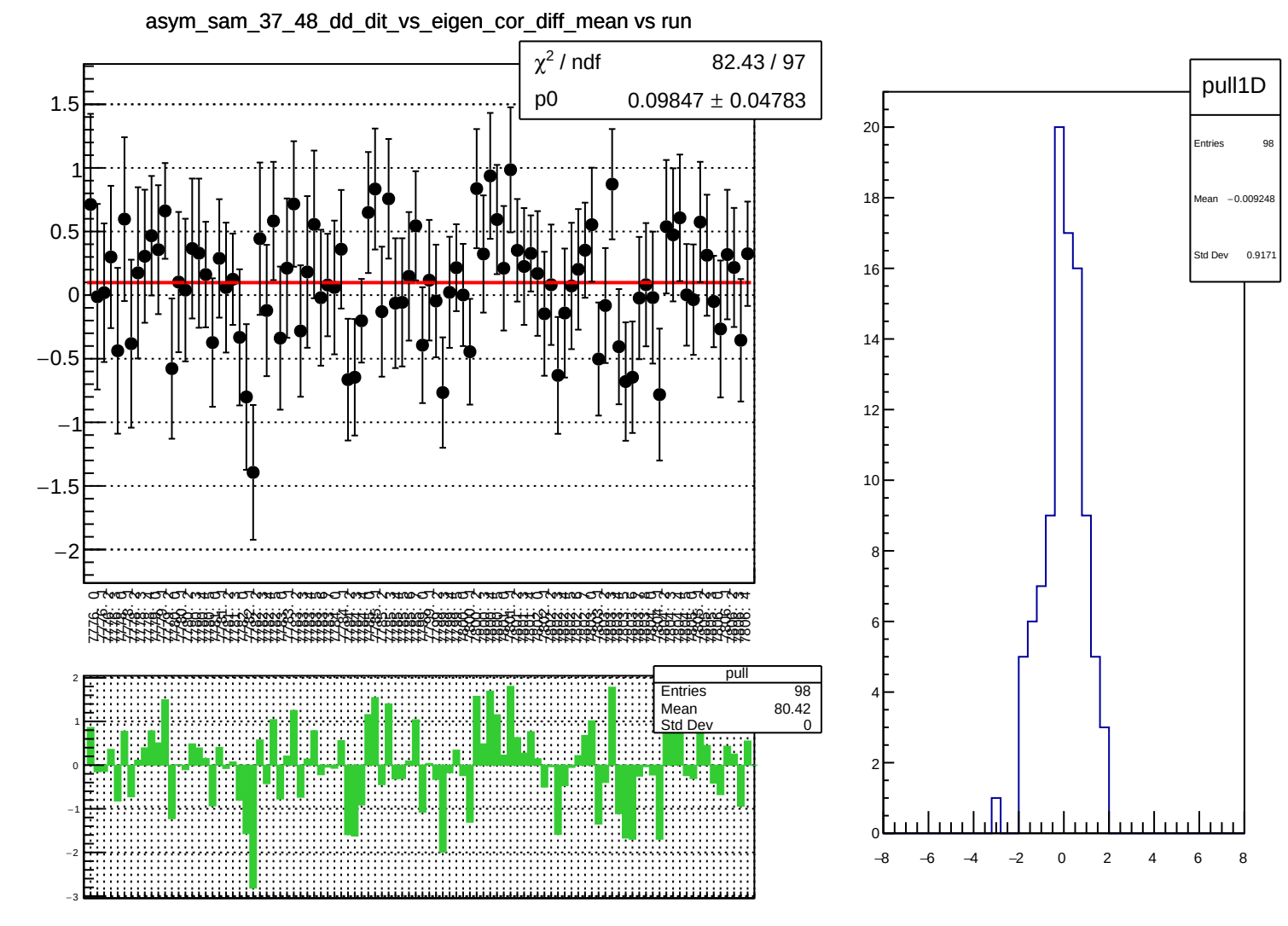

pull1D
Entries 98
Mean 0.0172
Std Dev 0.8212
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

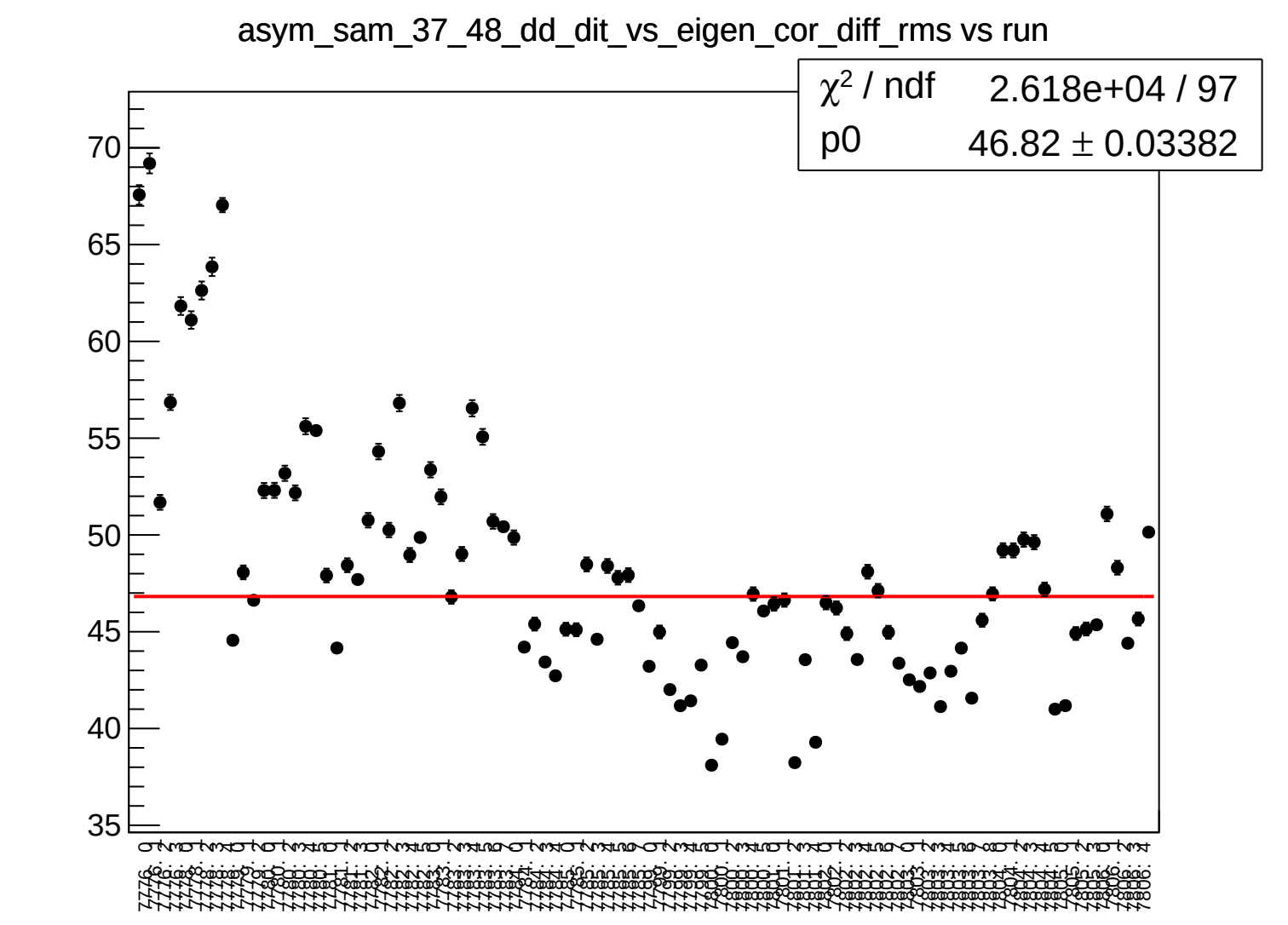

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.516e+05 / 97
p0 3.663e−11 ± 3.507e−14
0.05
0.04
0.03
0.02
0.01
0

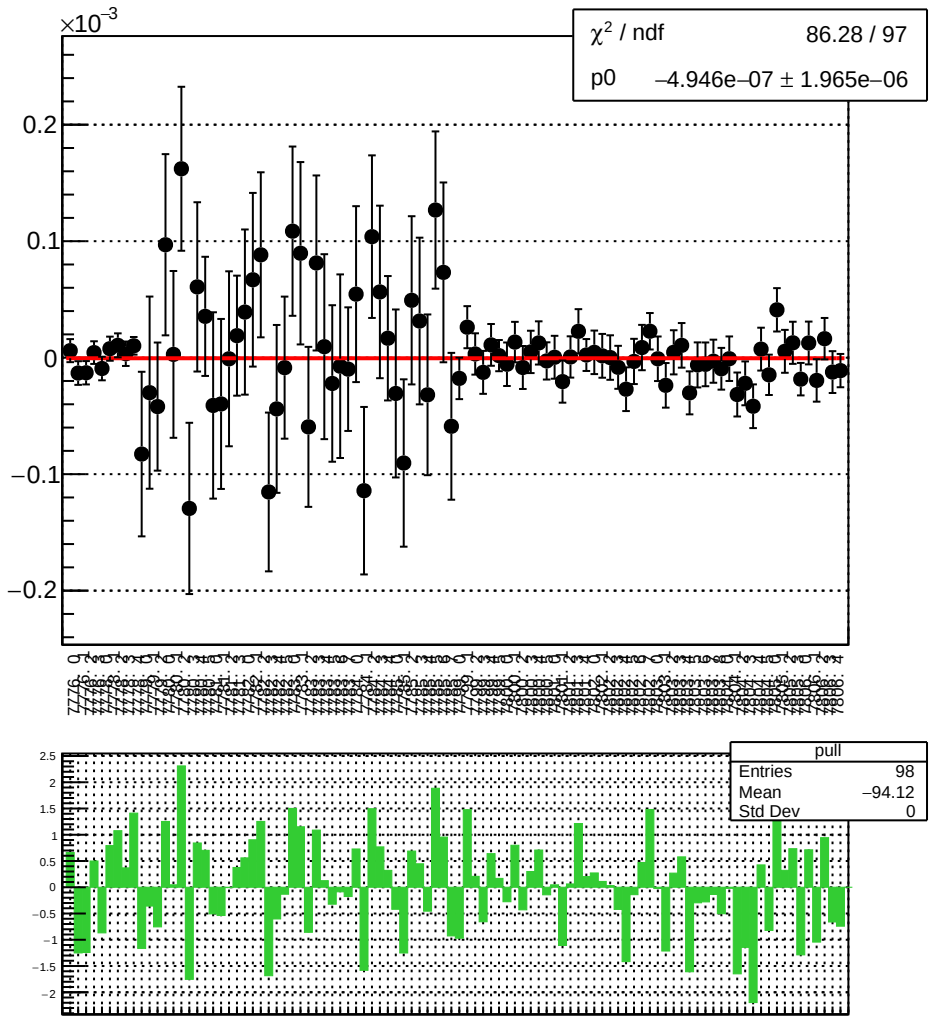

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.43 / 97
p0 0.09847 ± 0.04783
pull
Entries 98
Mean 80.42
Std Dev 0

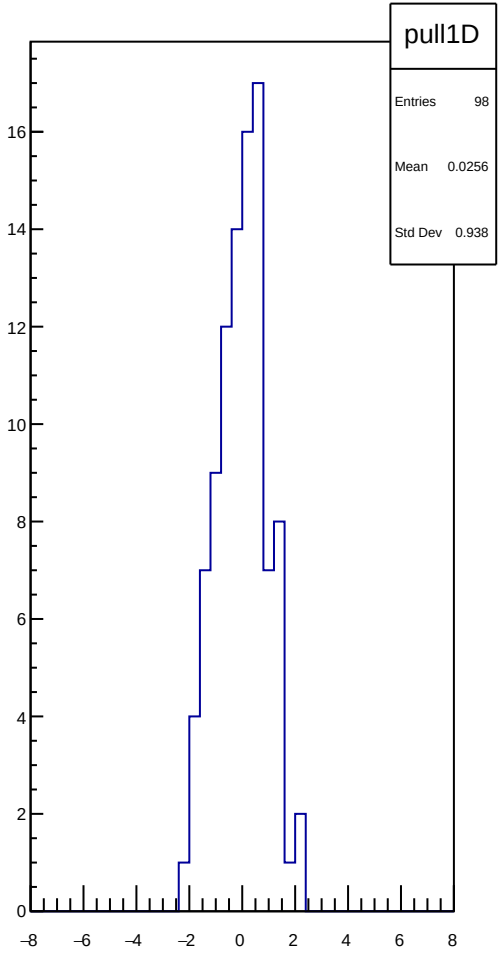

pull1D
Entries 98
Mean −0.009248
Std Dev 0.9171

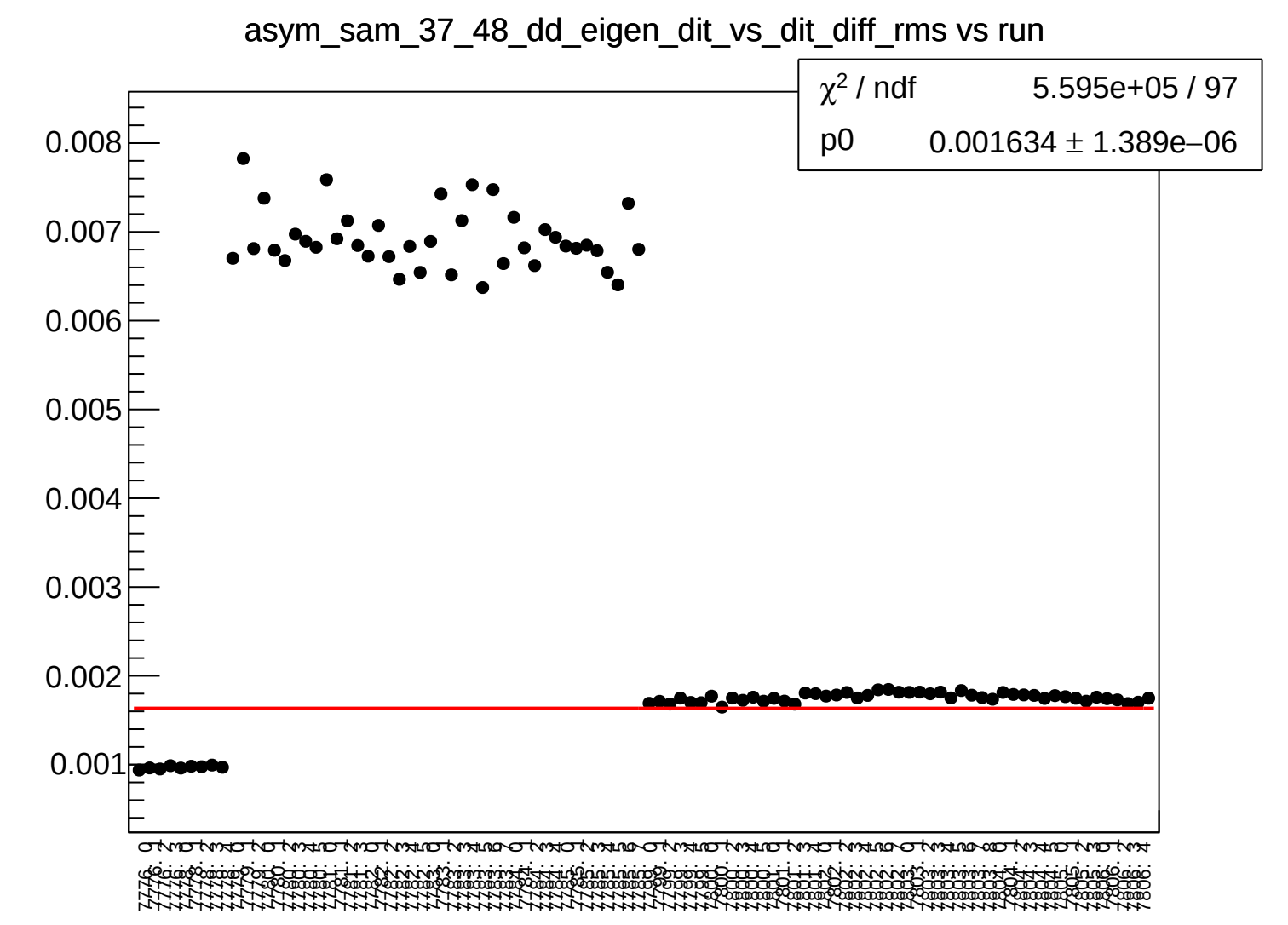

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.618e+04 / 97
p0 46.82 ± 0.03382
70
65
60
55
50
45
40
35

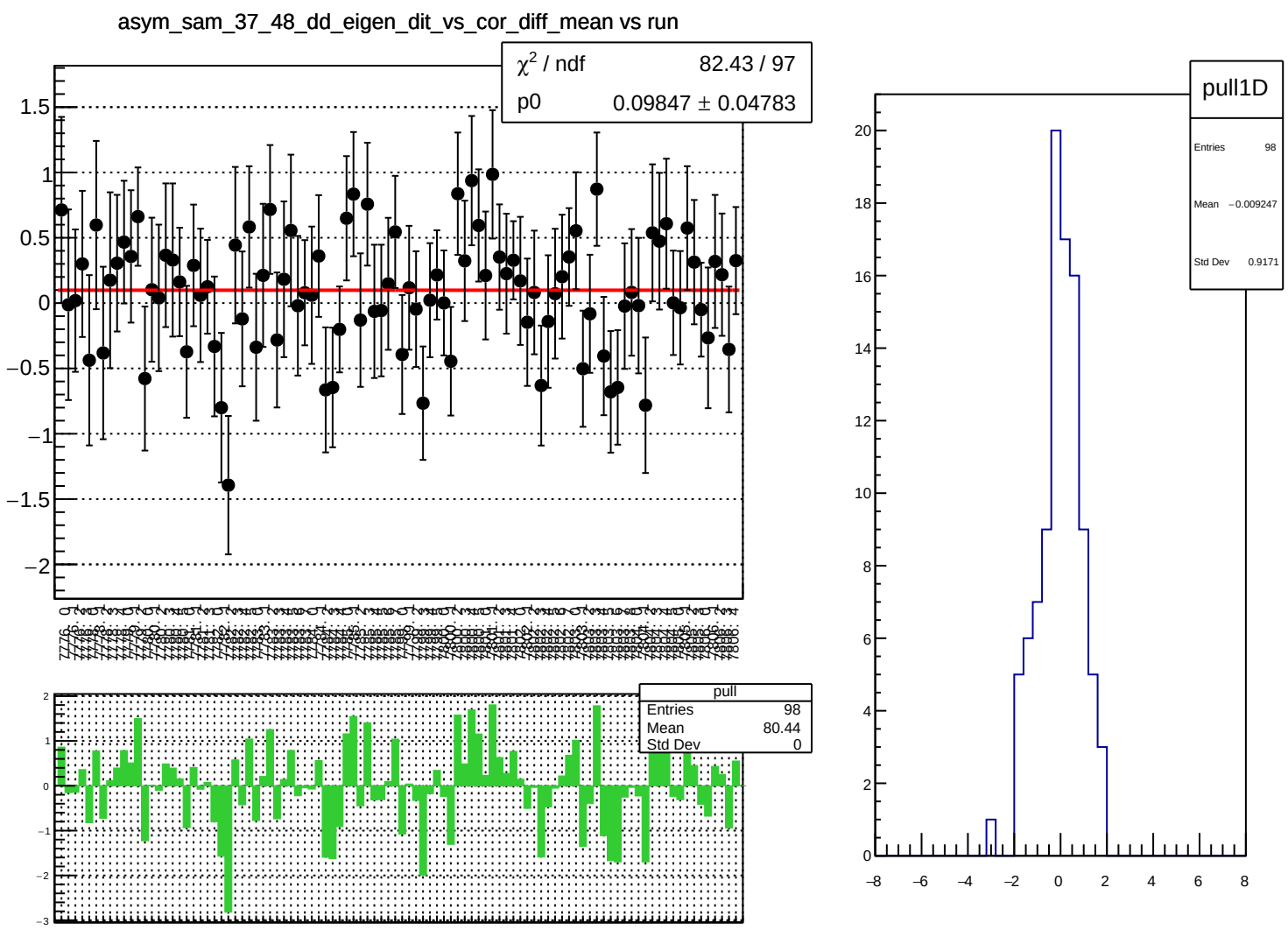

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.43 / 97
p0 0.09847 ± 0.04783
pull
Entries 98
Mean 80.42
Std Dev 0
pull1D
Entries 98
Mean −0.009248
Std Dev 0.9171

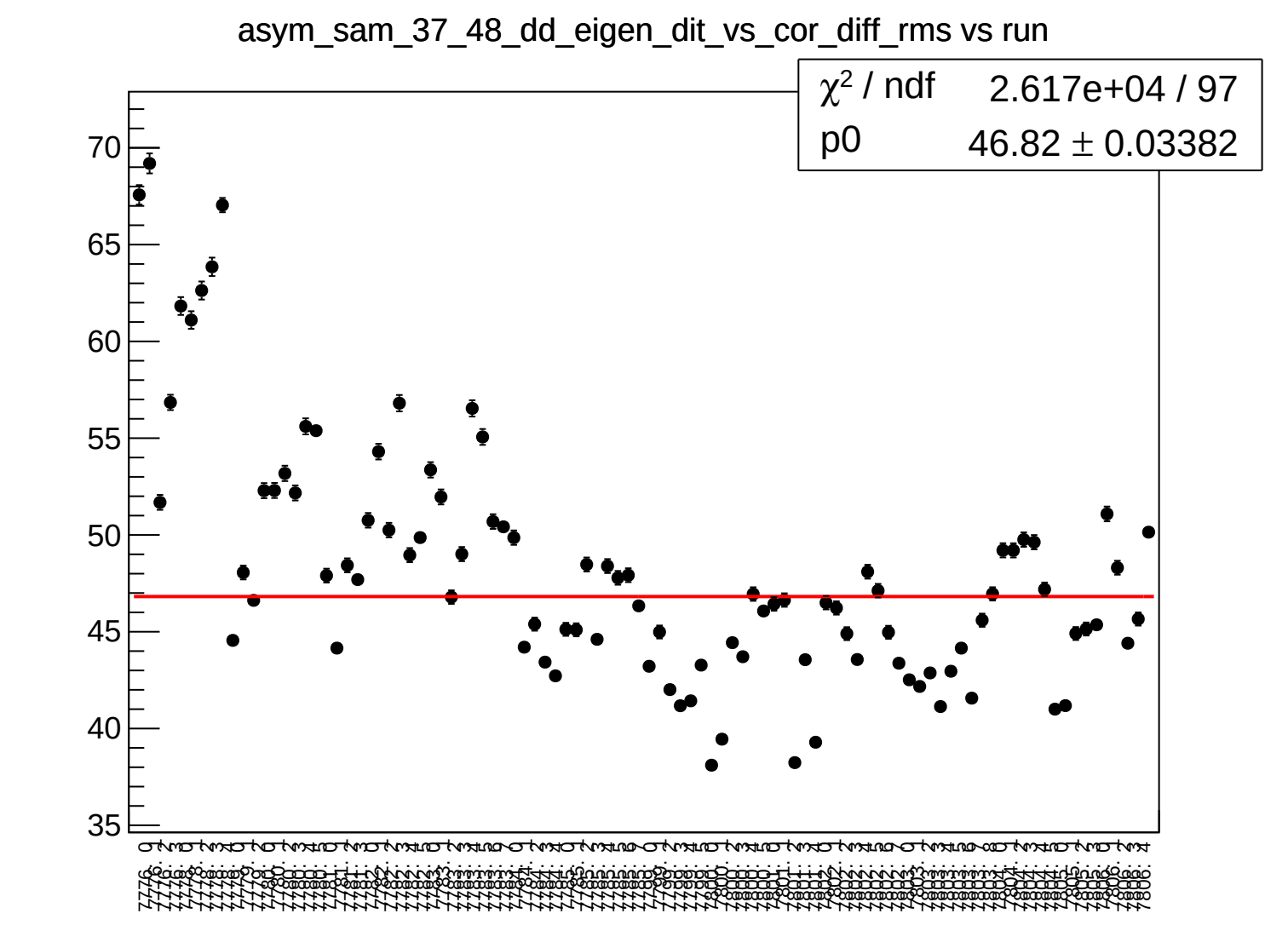

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.618e+04 / 97
p0 46.82 ± 0.03382
70
65
60
55
50
45
40
35

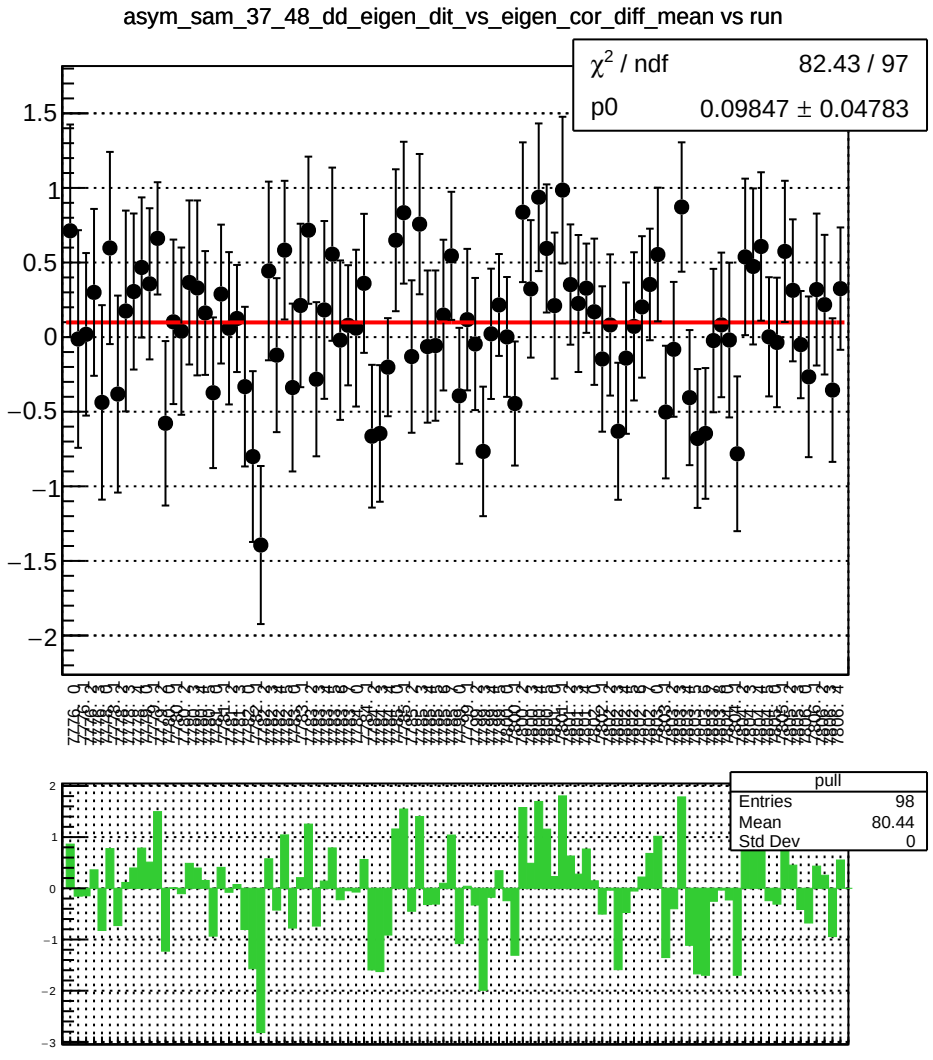

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.28 / 97
p0 −4.946e−07 ± 1.965e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 98
Mean −94.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

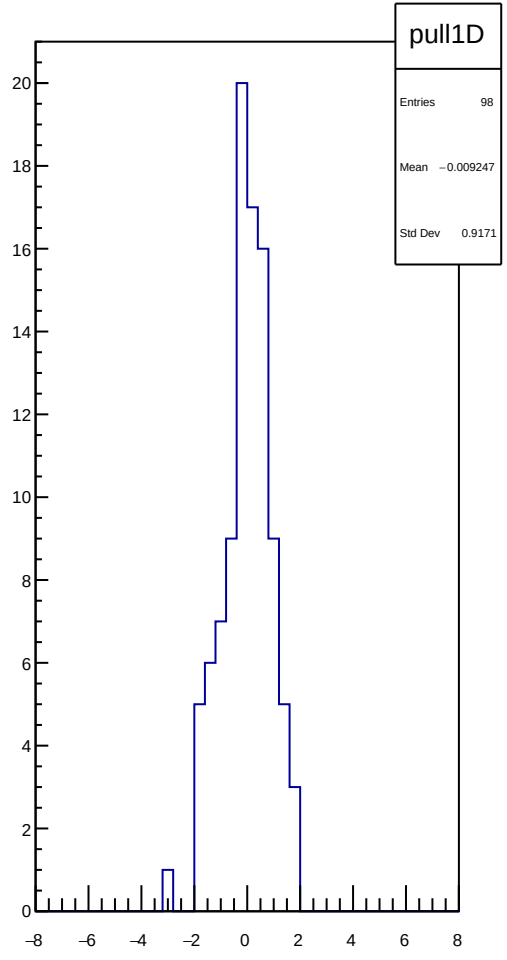

pull1D
Entries 98
Mean 0.0256
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

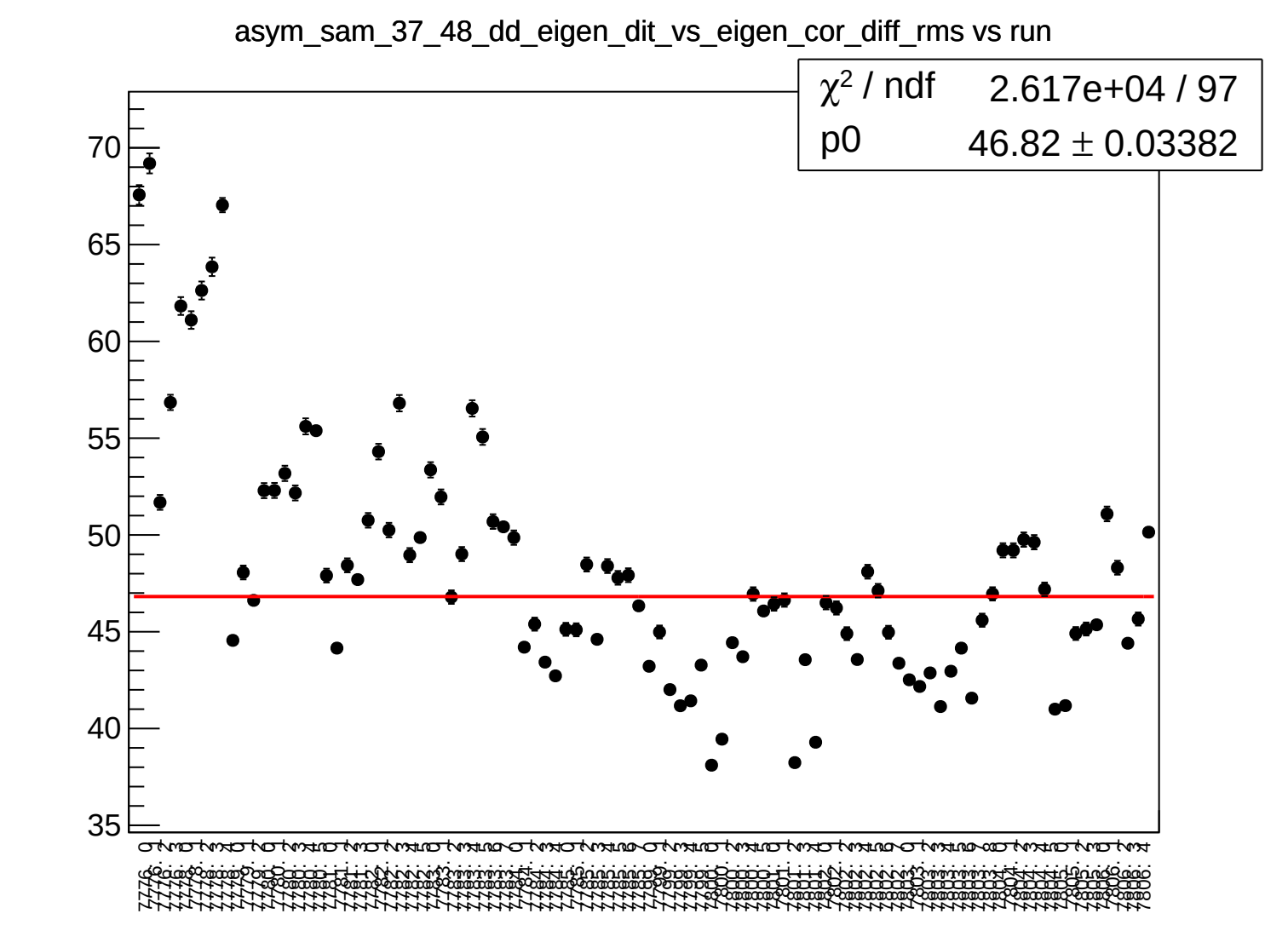

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.595e+05 / 97
p0 0.001634 ± 1.389e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

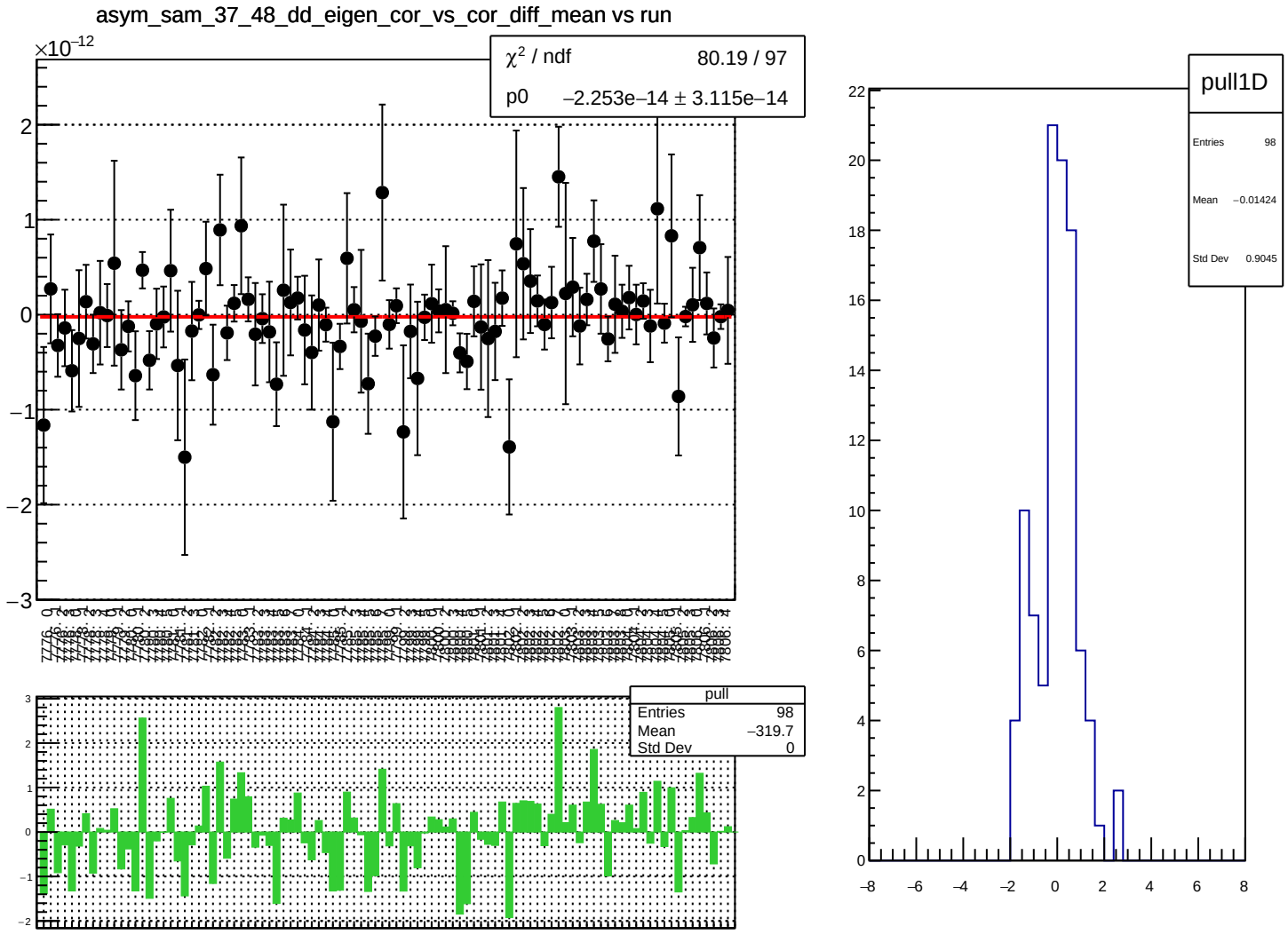

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.43 / 97
p0 0.09847 ± 0.04783
pull
Entries 98
Mean 80.44
Std Dev 0
pull1D
Entries 98
Mean −0.009247
Std Dev 0.9171

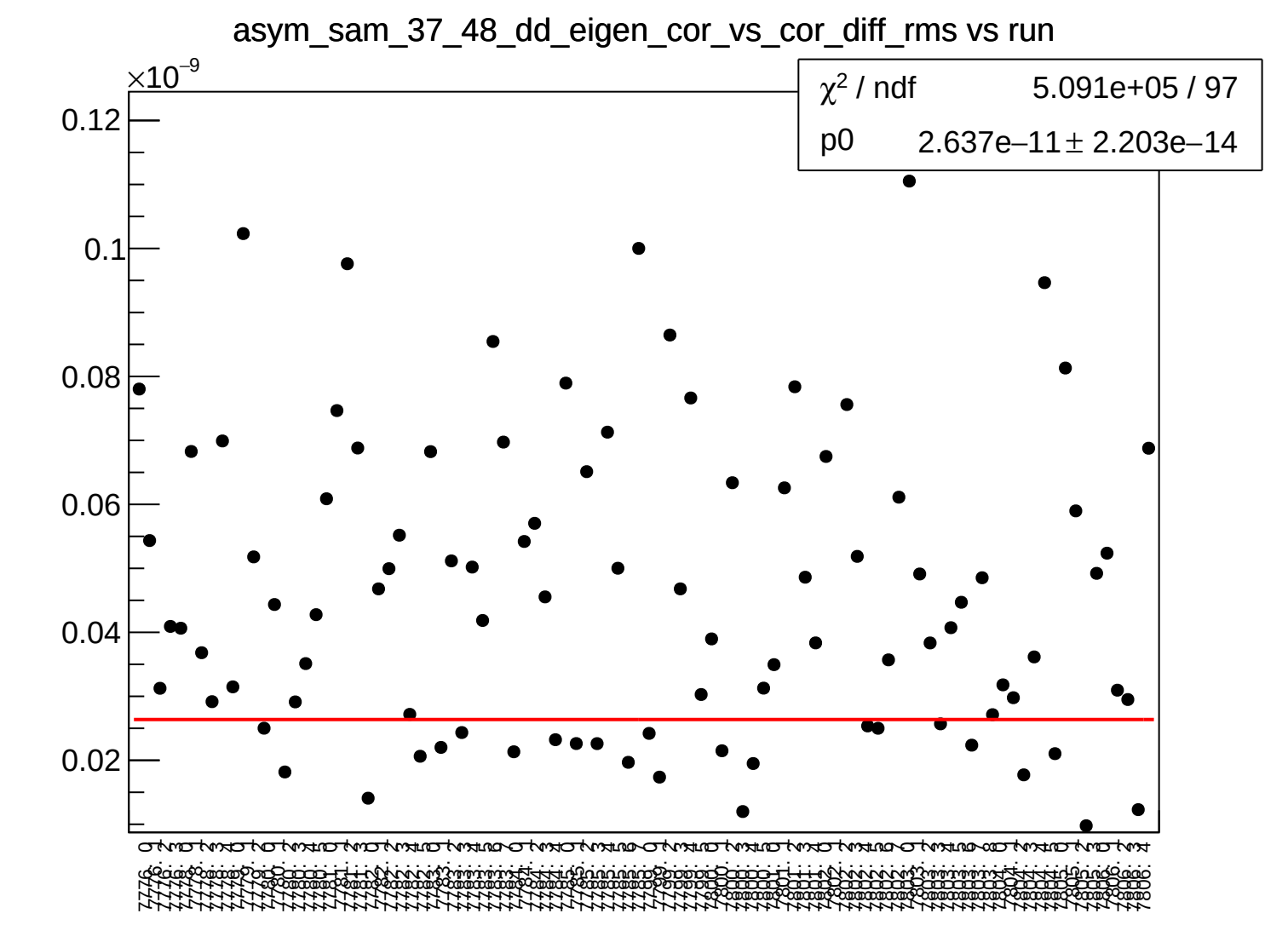

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.617e+04 / 97
p0 46.82 ± 0.03382
70
65
60
55
50
45
40
35

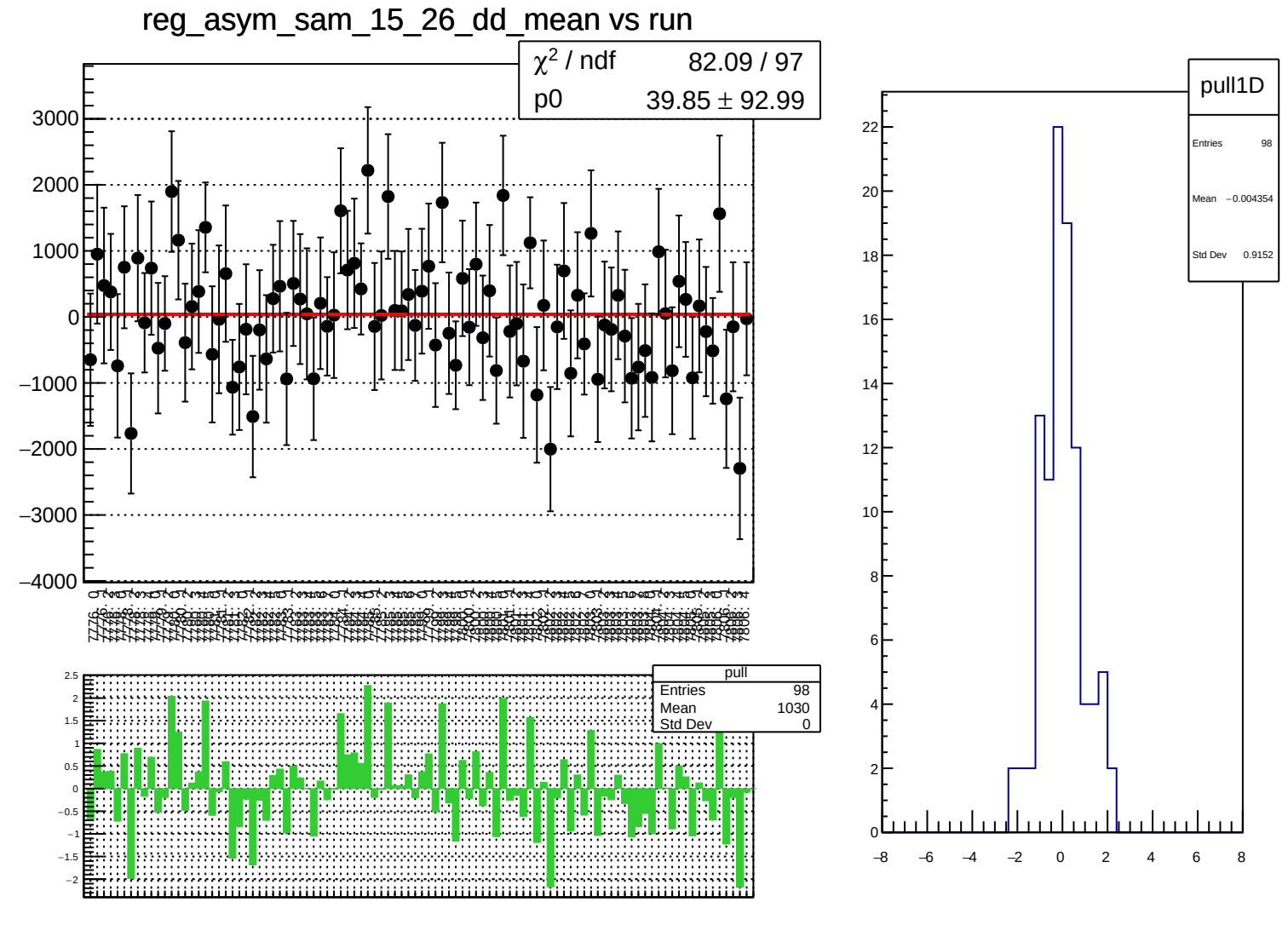

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.43 / 97
p0 0.09847 ± 0.04783
pull
Entries 98
Mean 80.44
Std Dev 0

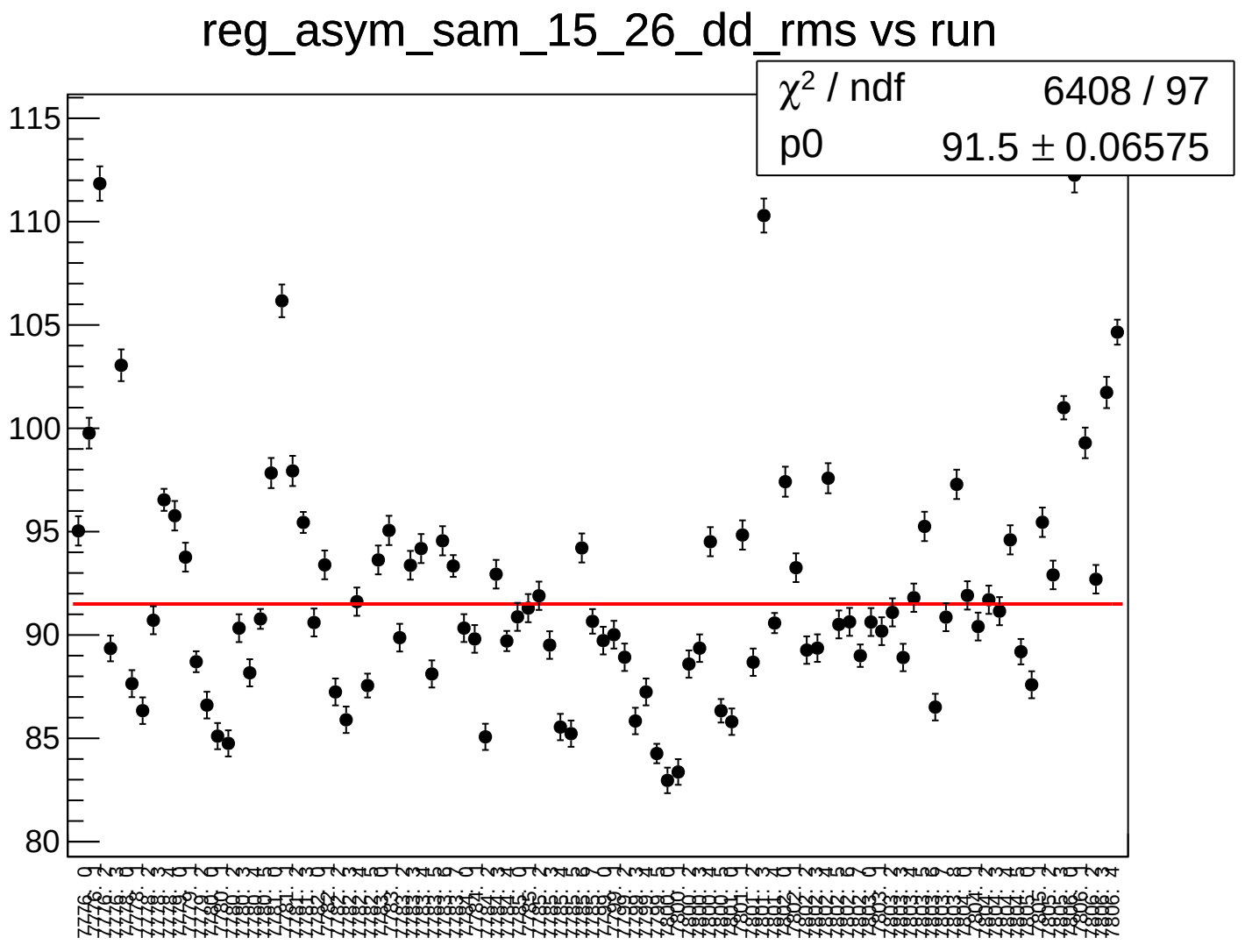

pull1D
Entries 98
Mean −0.009247
Std Dev 0.9171

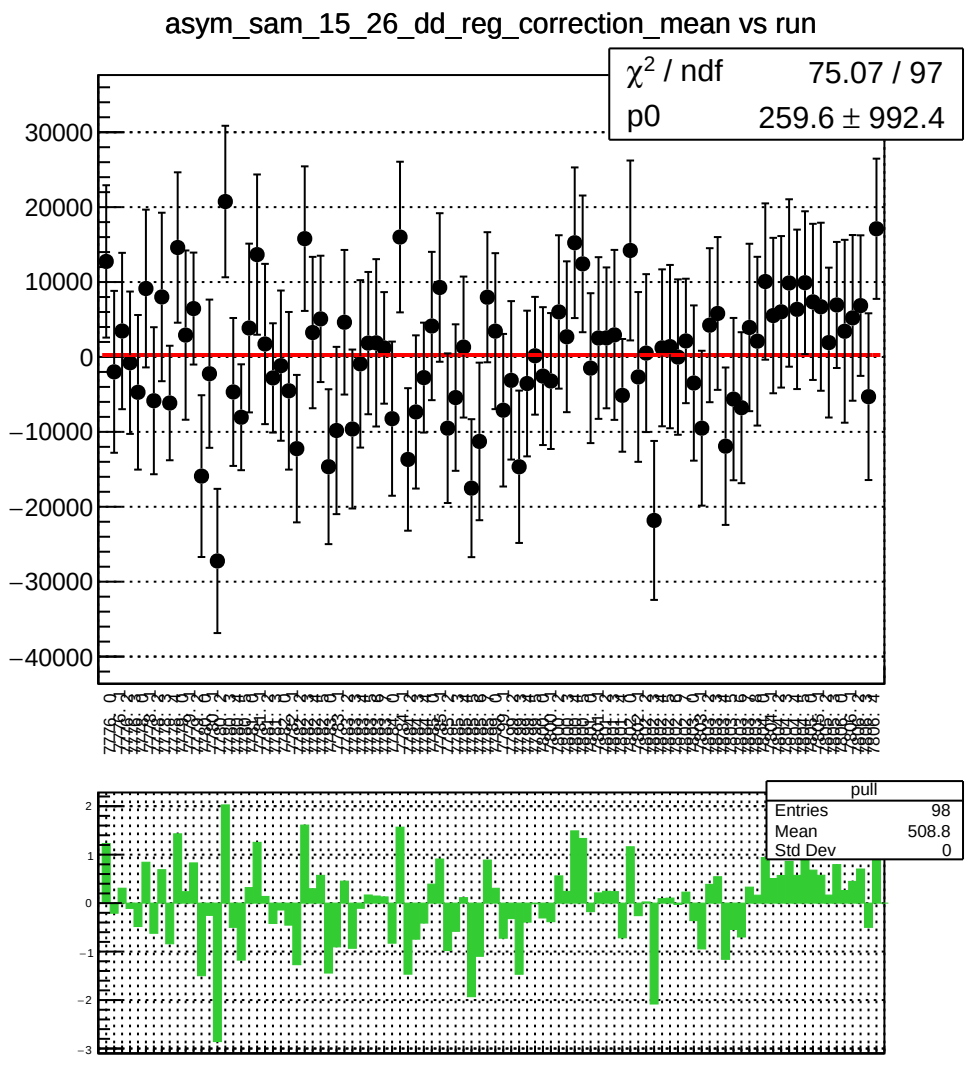

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.617e+04 / 97
p0 46.82 ± 0.03382
70
65
60
55
50
45
40
35

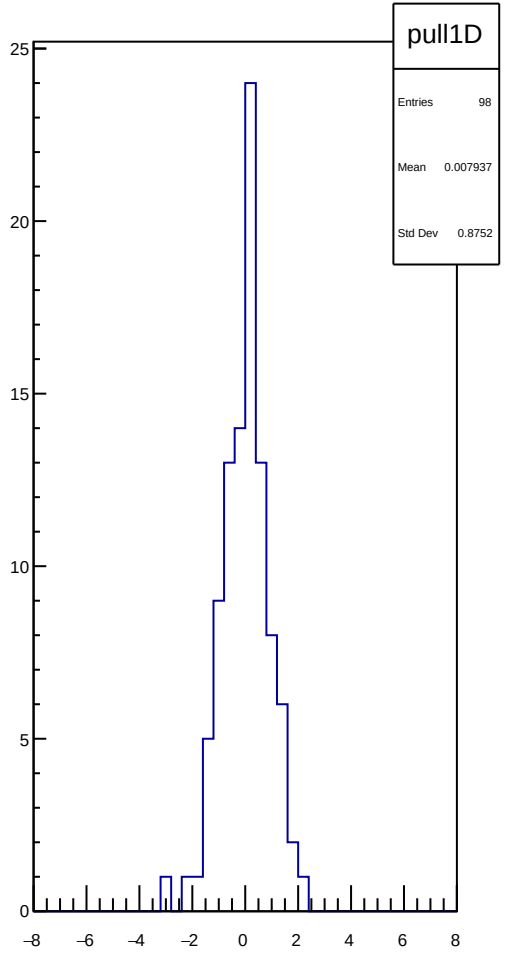

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 80.19 / 97
p0 −2.253e−14 ± 3.115e−14
pull
Entries 98
Mean −319.7
Std Dev 0
pull1D
Entries 98
Mean −0.01424
Std Dev 0.9045

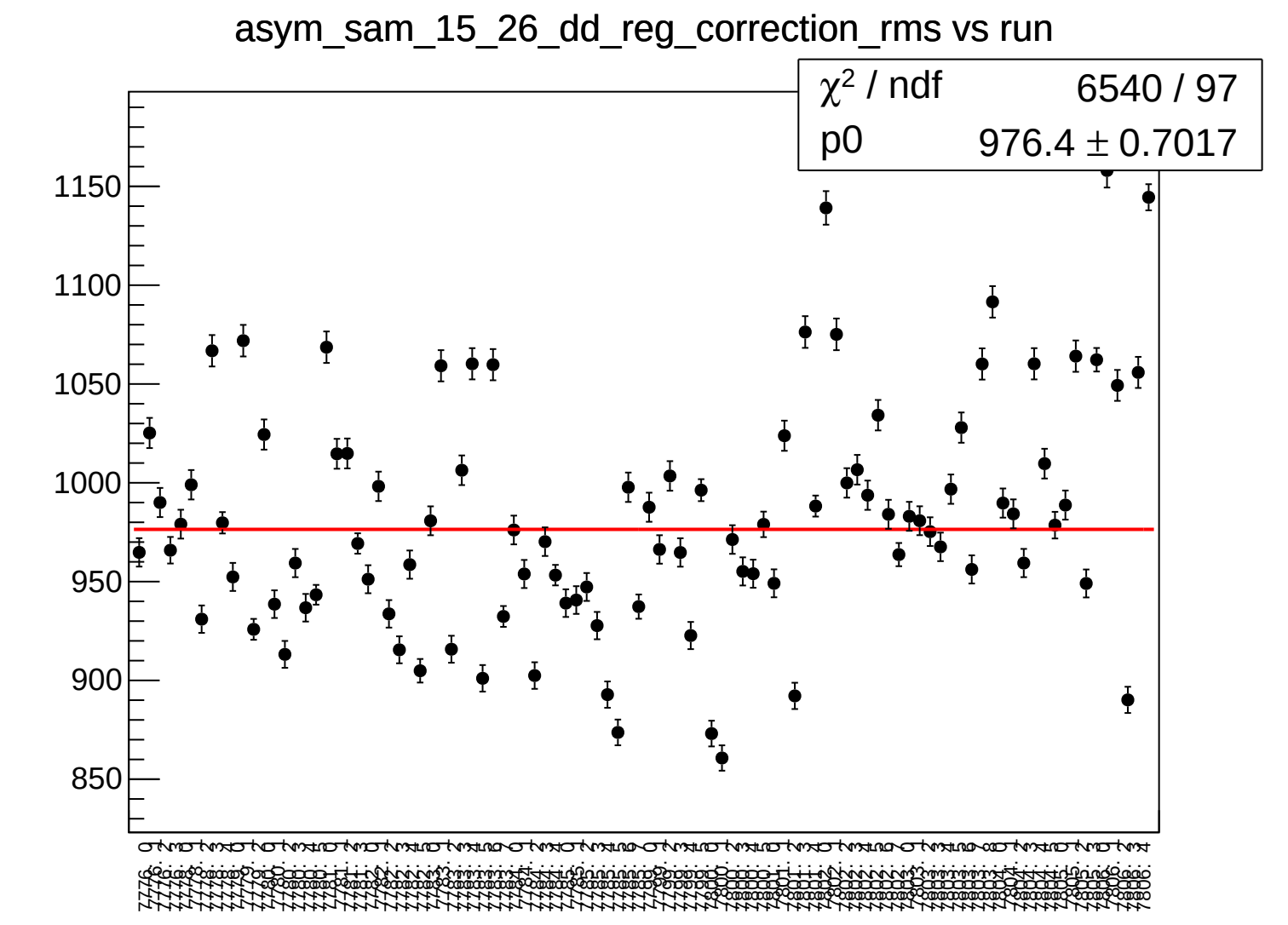

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.091e+05 / 97
p0 2.637e−11 ± 2.203e−14
0.12
0.1
0.08
0.06
0.04
0.02

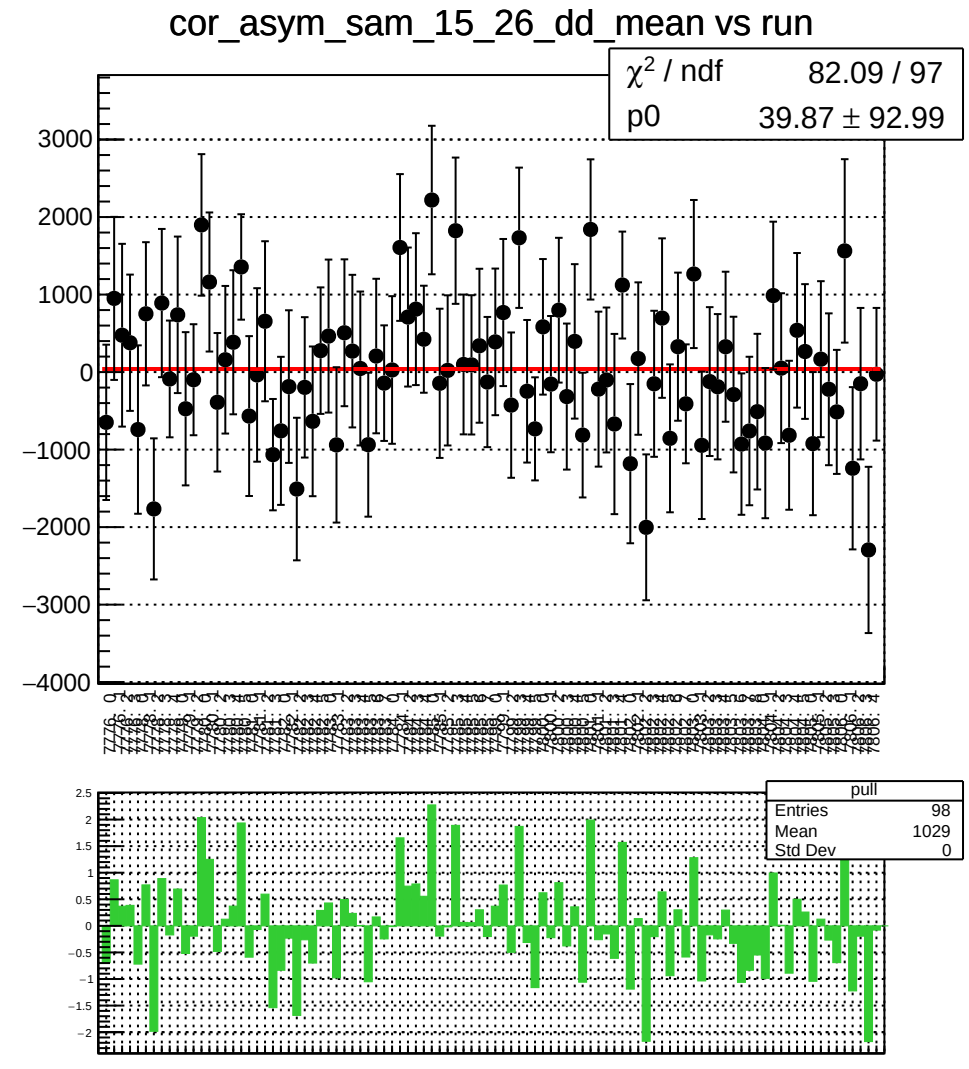

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.09 / 97
p0 39.85 ± 92.99
pull
Entries 98
Mean 1030
Std Dev 0
pull1D
Entries 98
Mean −0.004354
Std Dev 0.9152

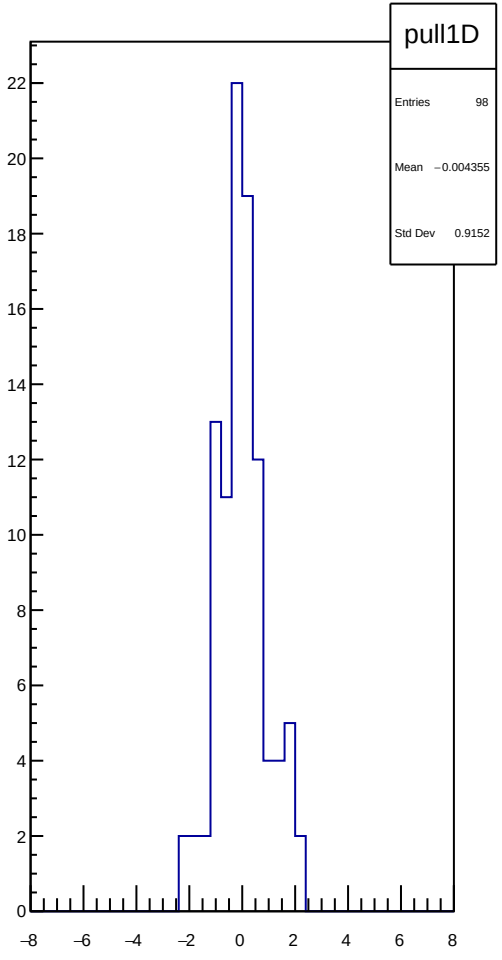

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 6408 / 97
p0 91.5 ± 0.06575
115
110
105
100
95
90
85
80

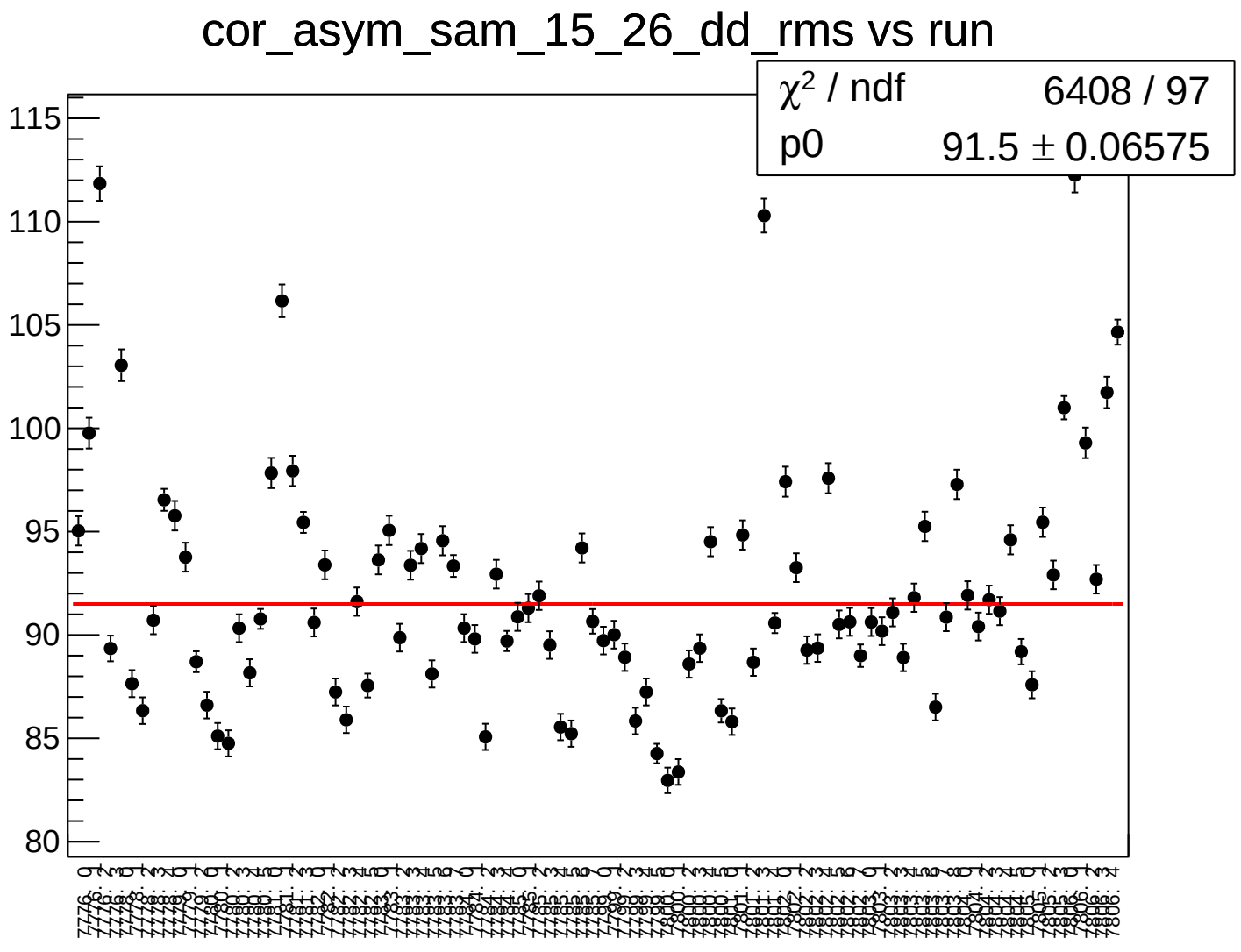

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 75.07 / 97
p0 259.6 ± 992.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 508.8
Std Dev 0
2
1
0
−1
−2
−3

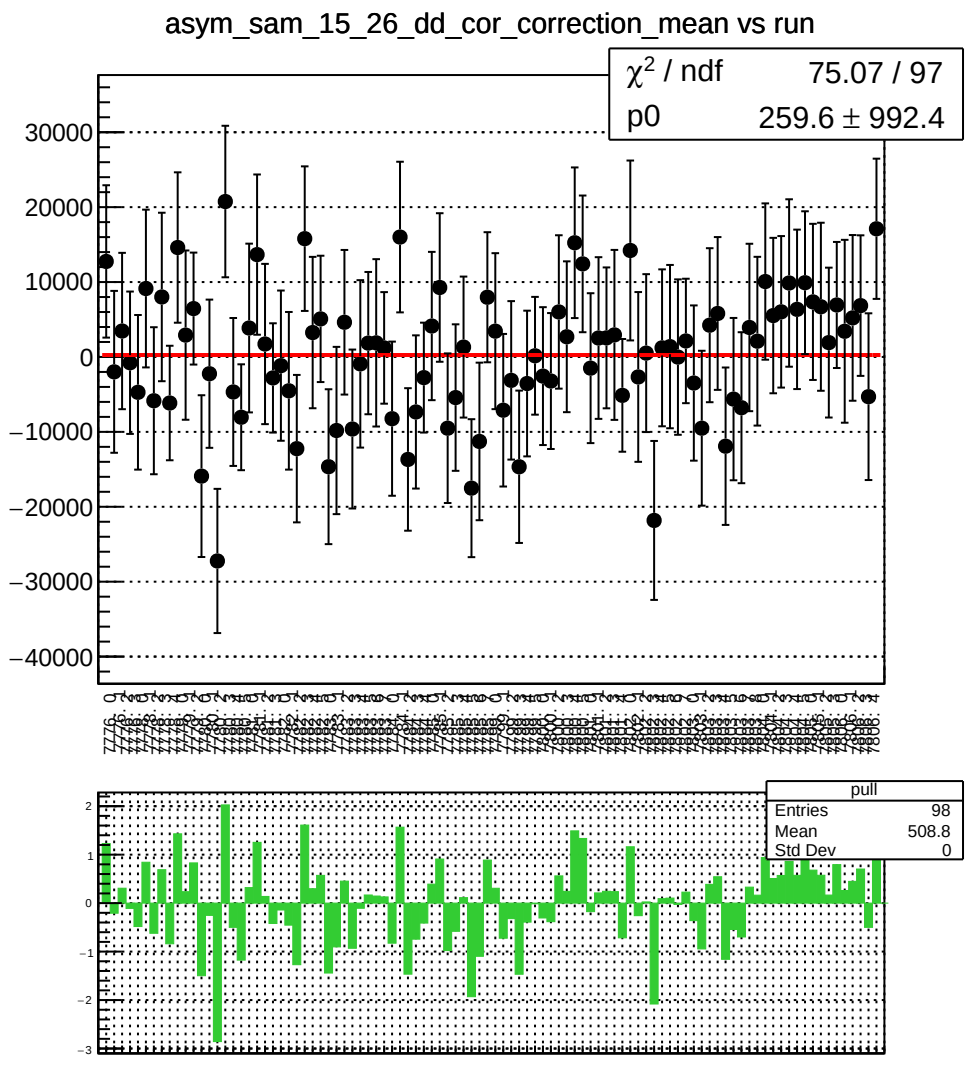

pull1D
Entries 98
Mean 0.007937
Std Dev 0.8752
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

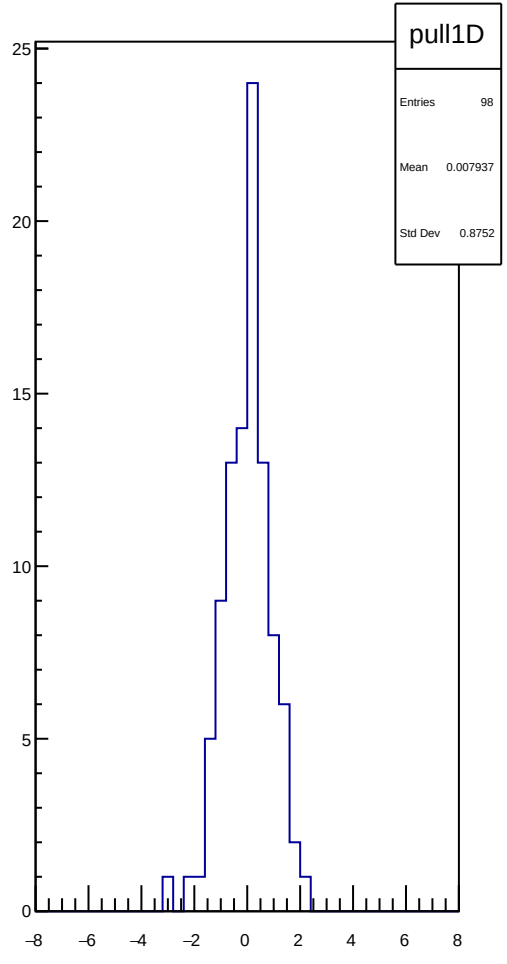

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 6540 / 97
p0 976.4 ± 0.7017
1150
1100
1050
1000
950
900
850

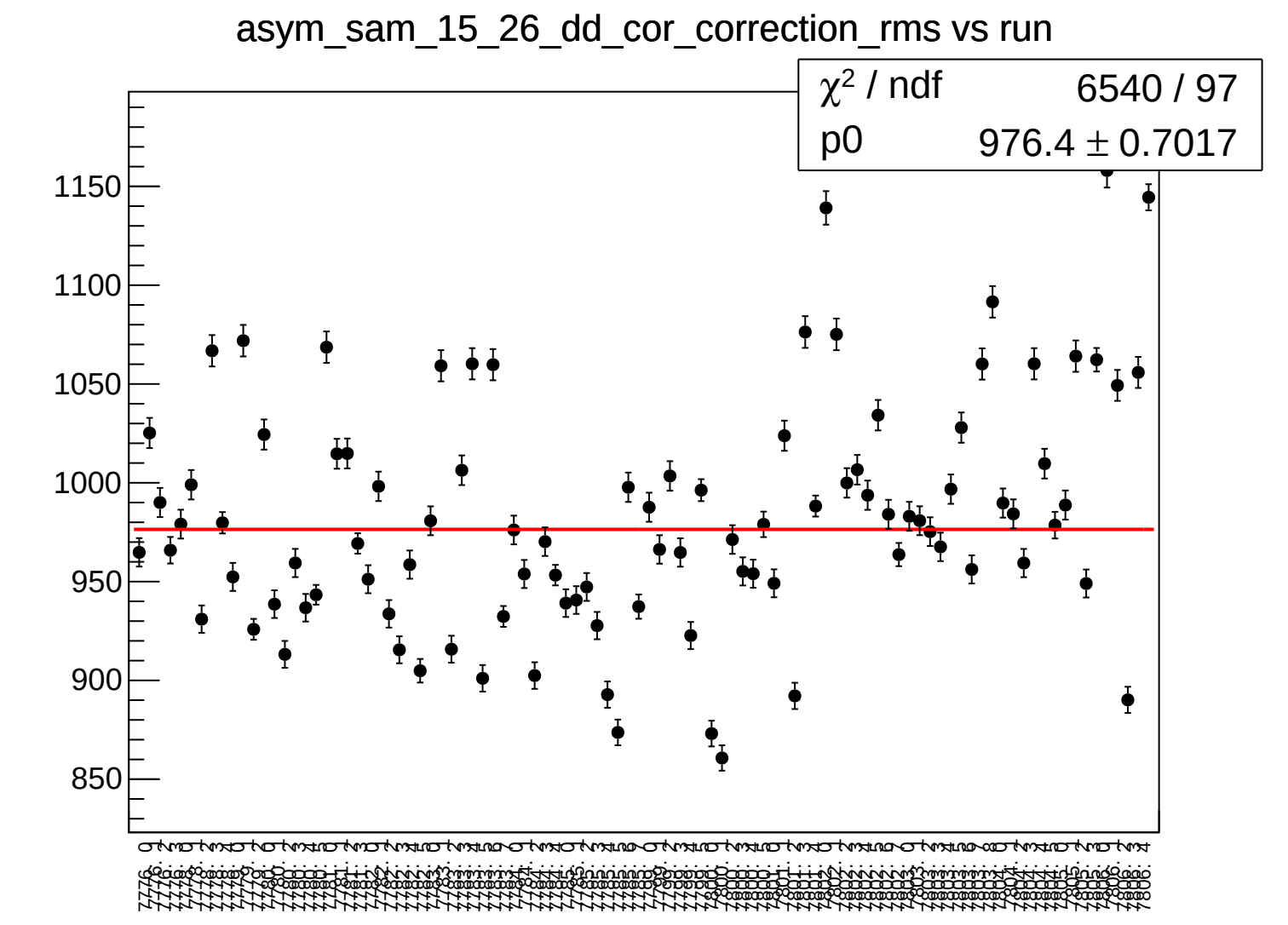

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.09 / 97
p0 39.87 ± 92.99
pull
Entries 98
Mean 1029
Std Dev 0

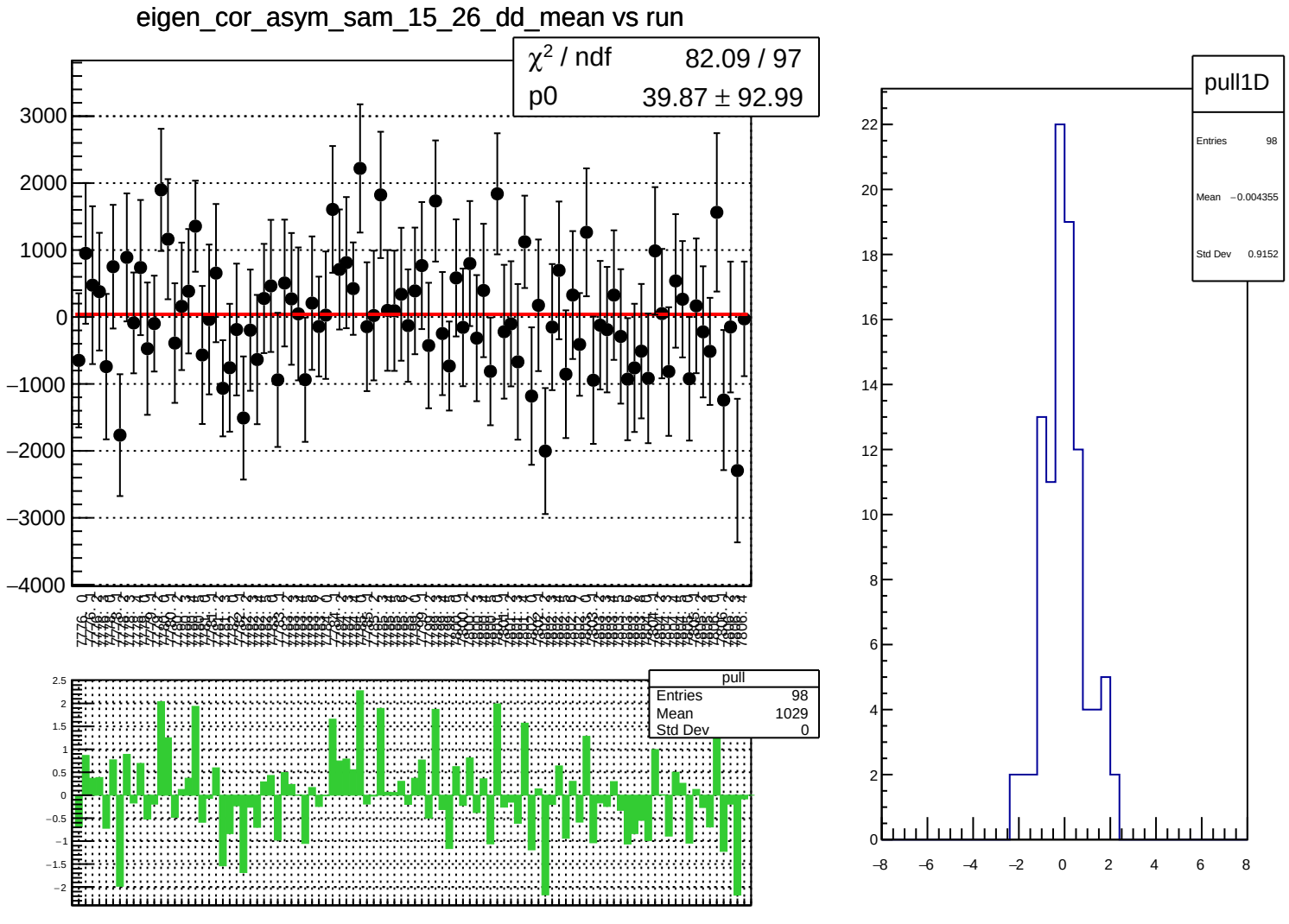

pull1D
Entries 98
Mean −0.004355
Std Dev 0.9152

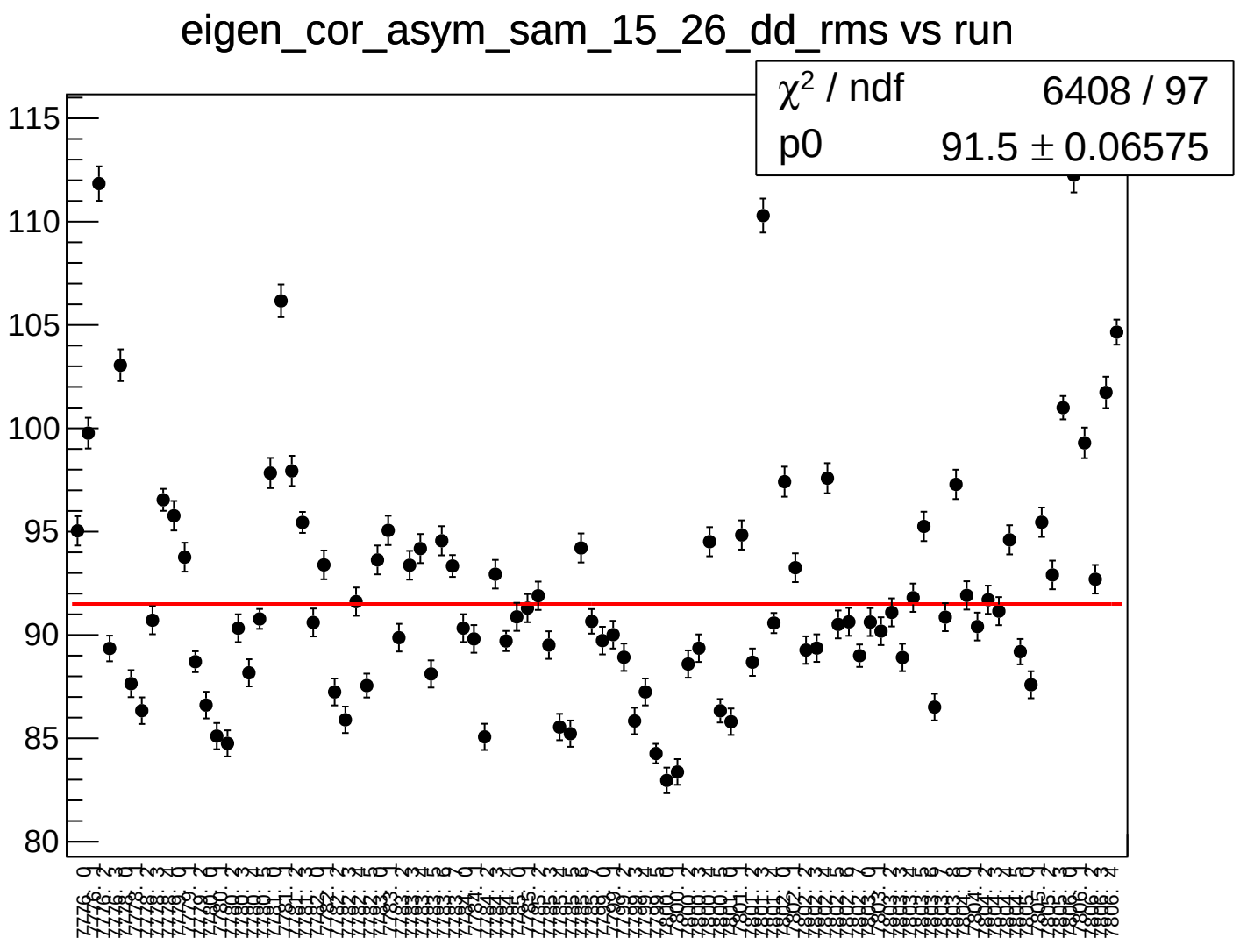

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 6408 / 97
p0 91.5 ± 0.06575
115
110
105
100
95
90
85
80

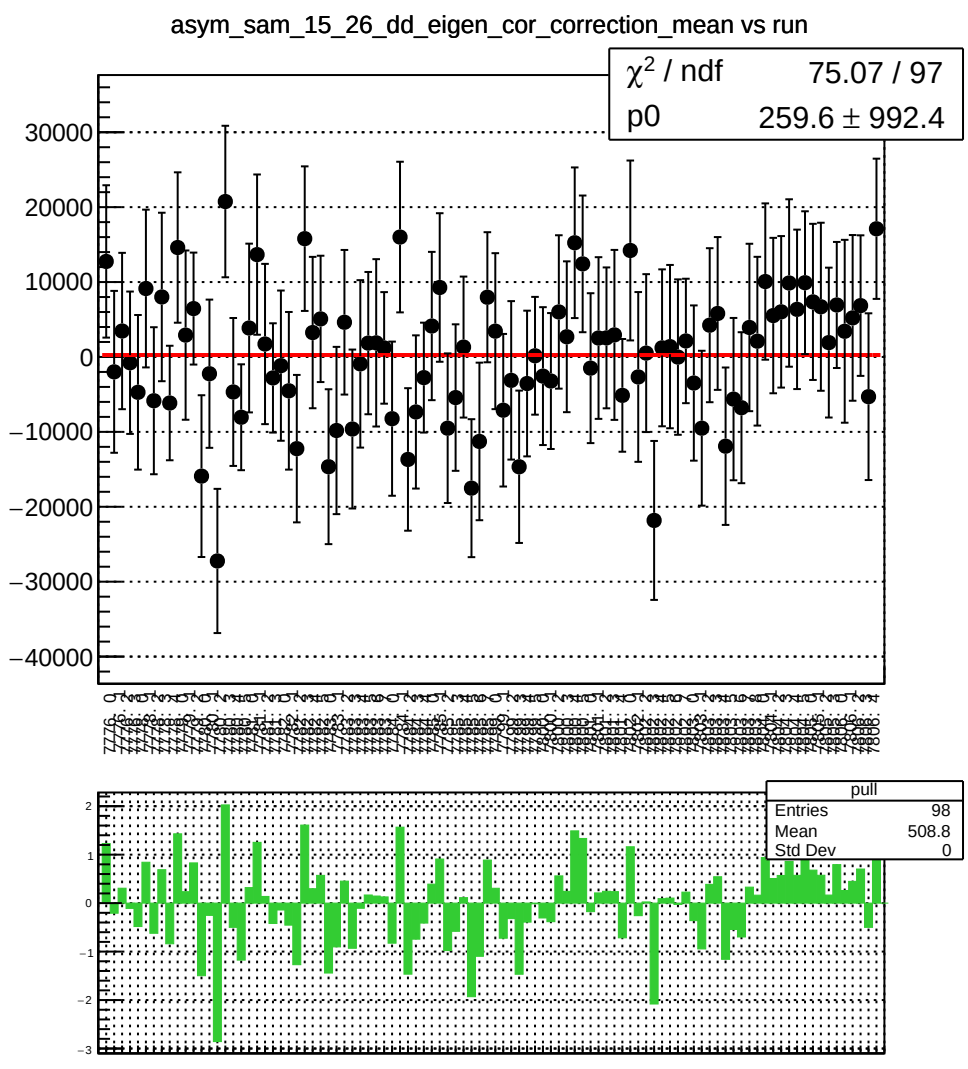

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 75.07 / 97
p0 259.6 ± 992.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 508.8
Std Dev 0
2
1
0
−1
−2
−3

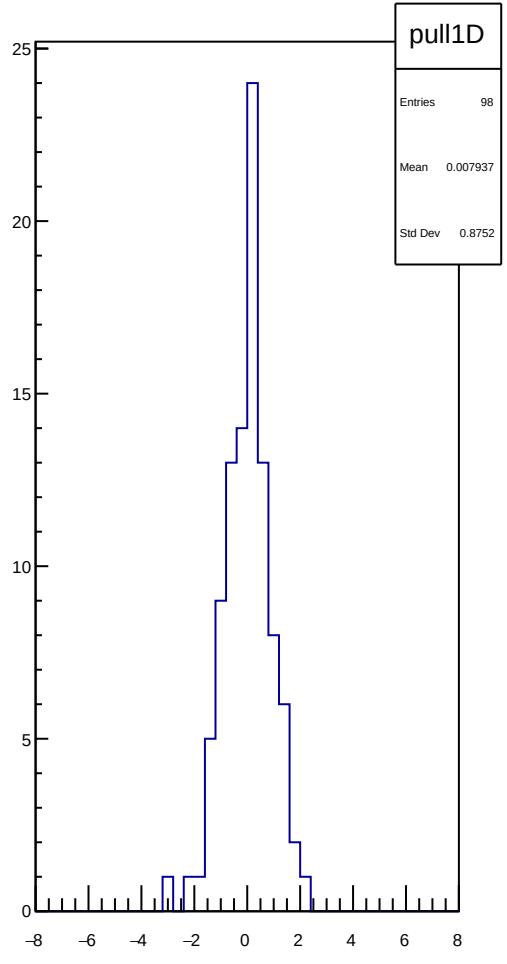

pull1D
Entries 98
Mean 0.007937
Std Dev 0.8752
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

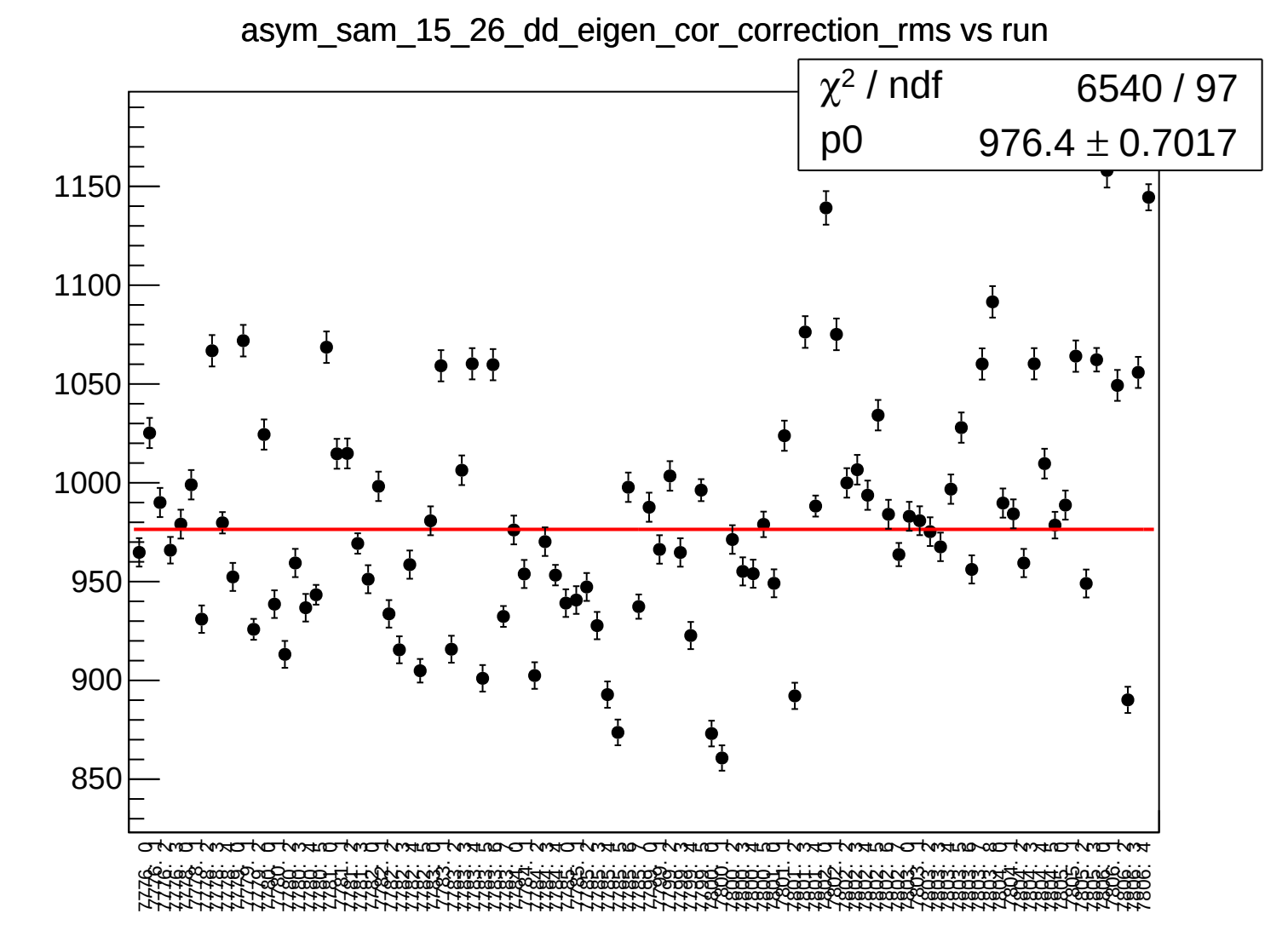

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 6540 / 97
p0 976.4 ± 0.7017
1150
1100
1050
1000
950
900
850

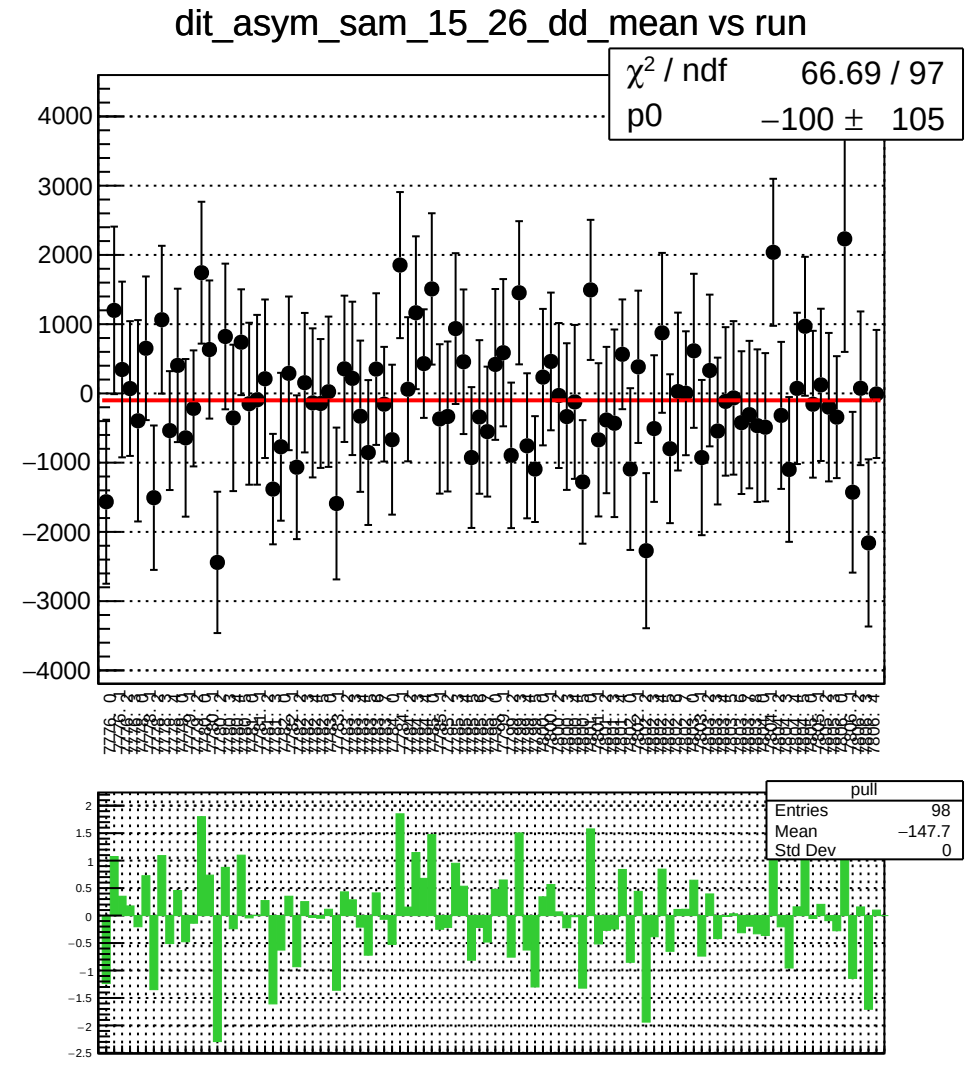

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.09 / 97
p0 39.87 ± 92.99
pull
Entries 98
Mean 1029
Std Dev 0
pull1D
Entries 98
Mean −0.004355
Std Dev 0.9152

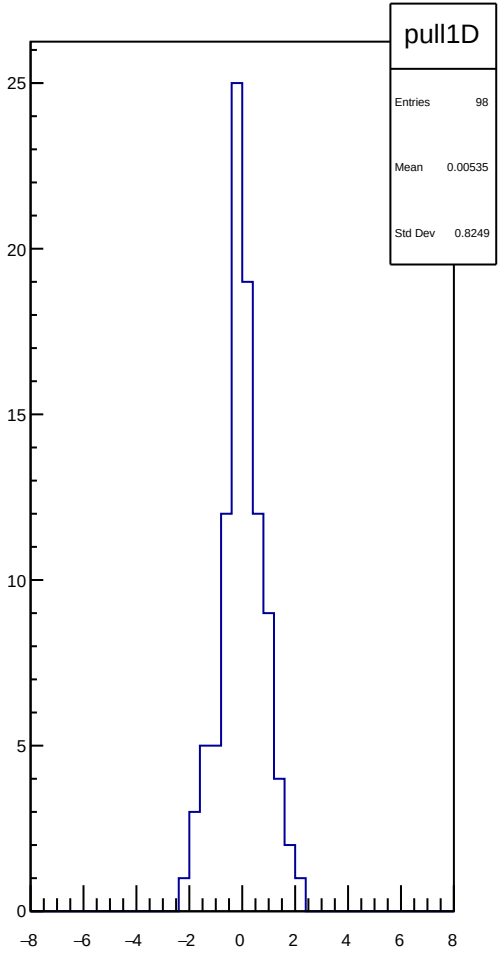

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 6408 / 97
p0 91.5 ± 0.06575
115
110
105
100
95
90
85
80

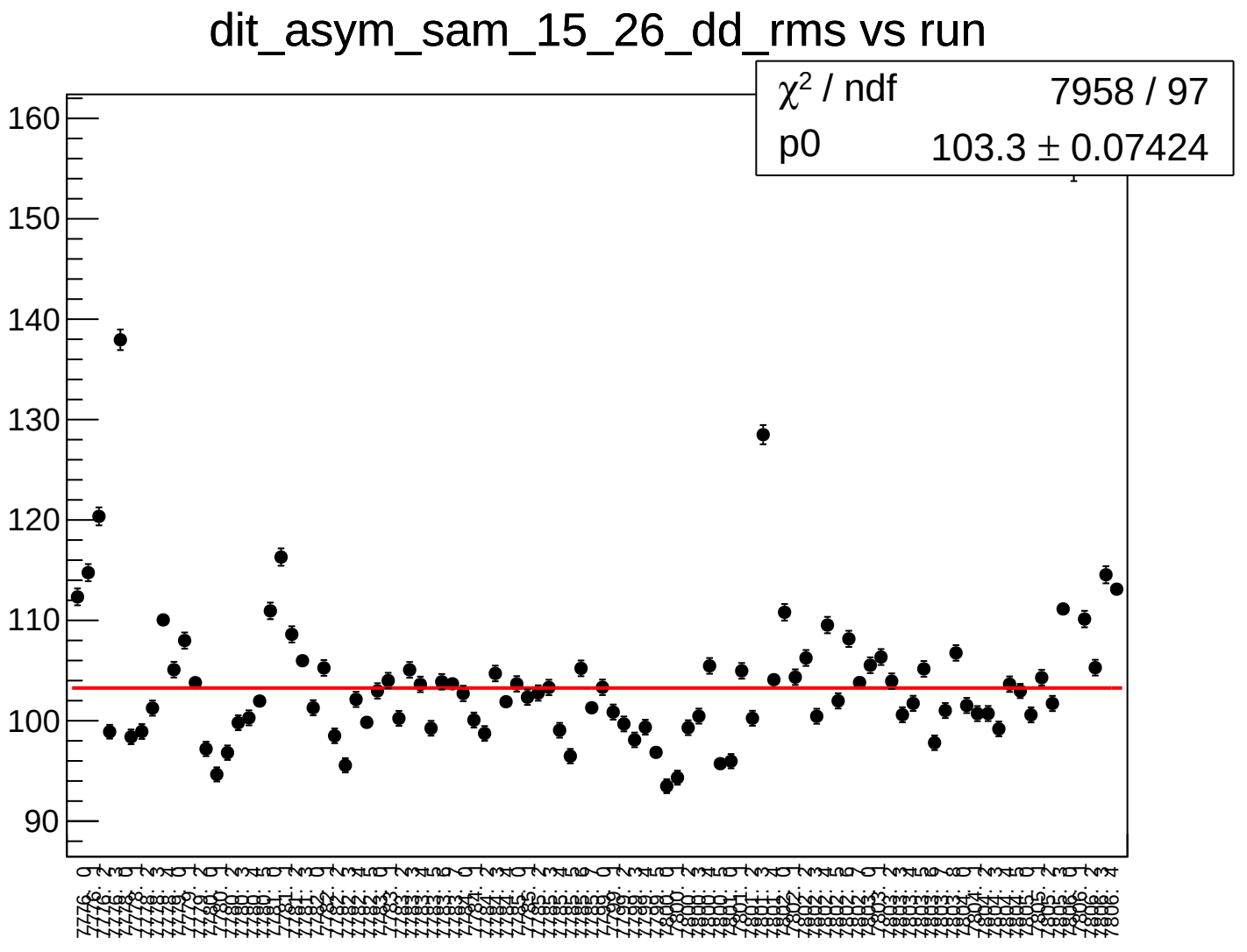

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.07 / 97
p0 259.6 ± 992.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 508.8
Std Dev 0
2
1
0
−1
−2
−3

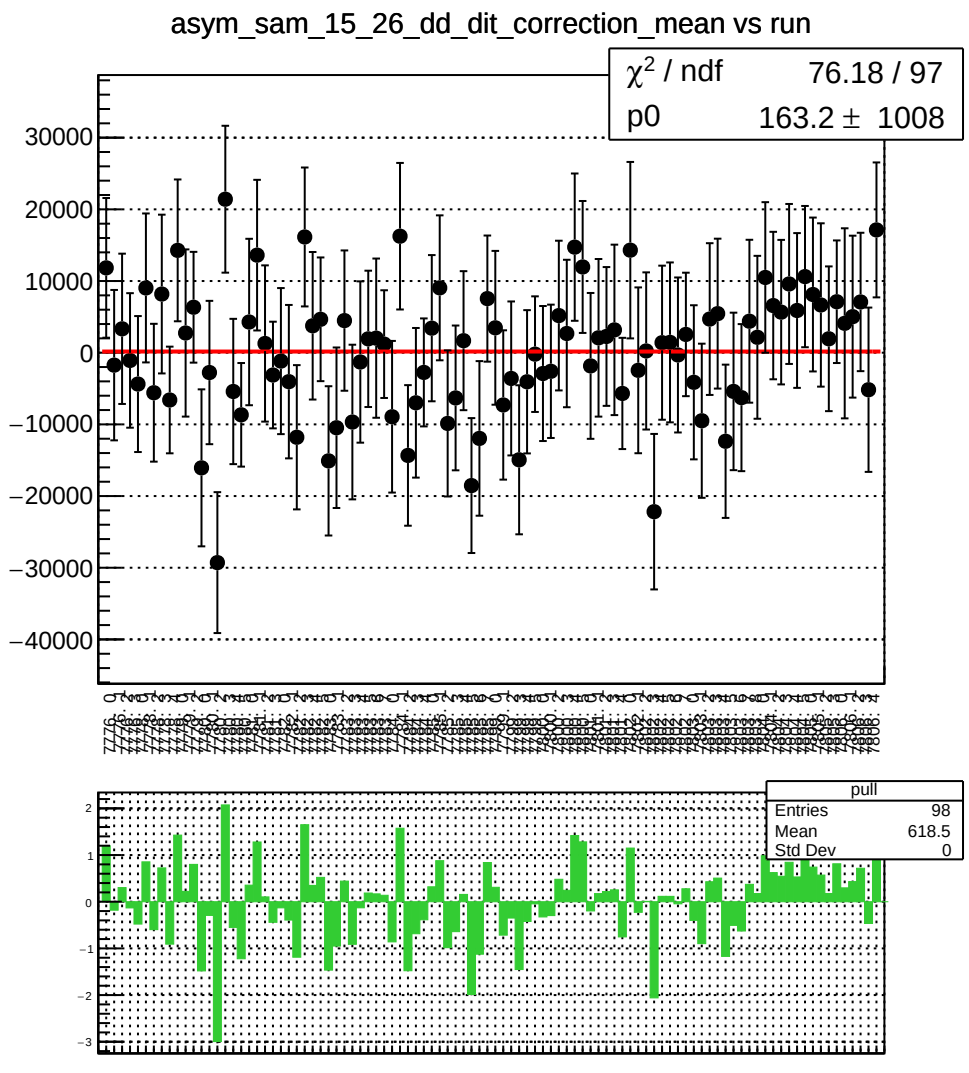

pull1D
Entries 98
Mean 0.007937
Std Dev 0.8752
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

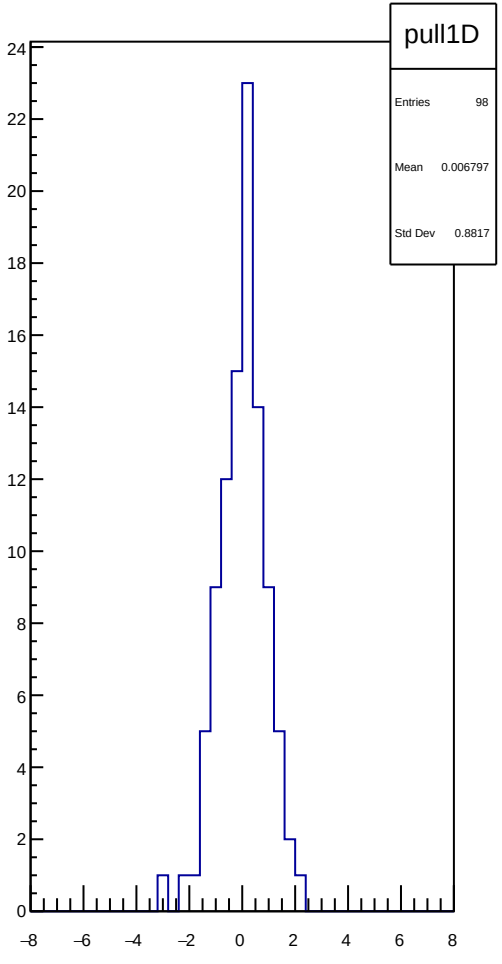

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6540 / 97
p0 976.4 ± 0.7017
1150
1100
1050
1000
950
900
850

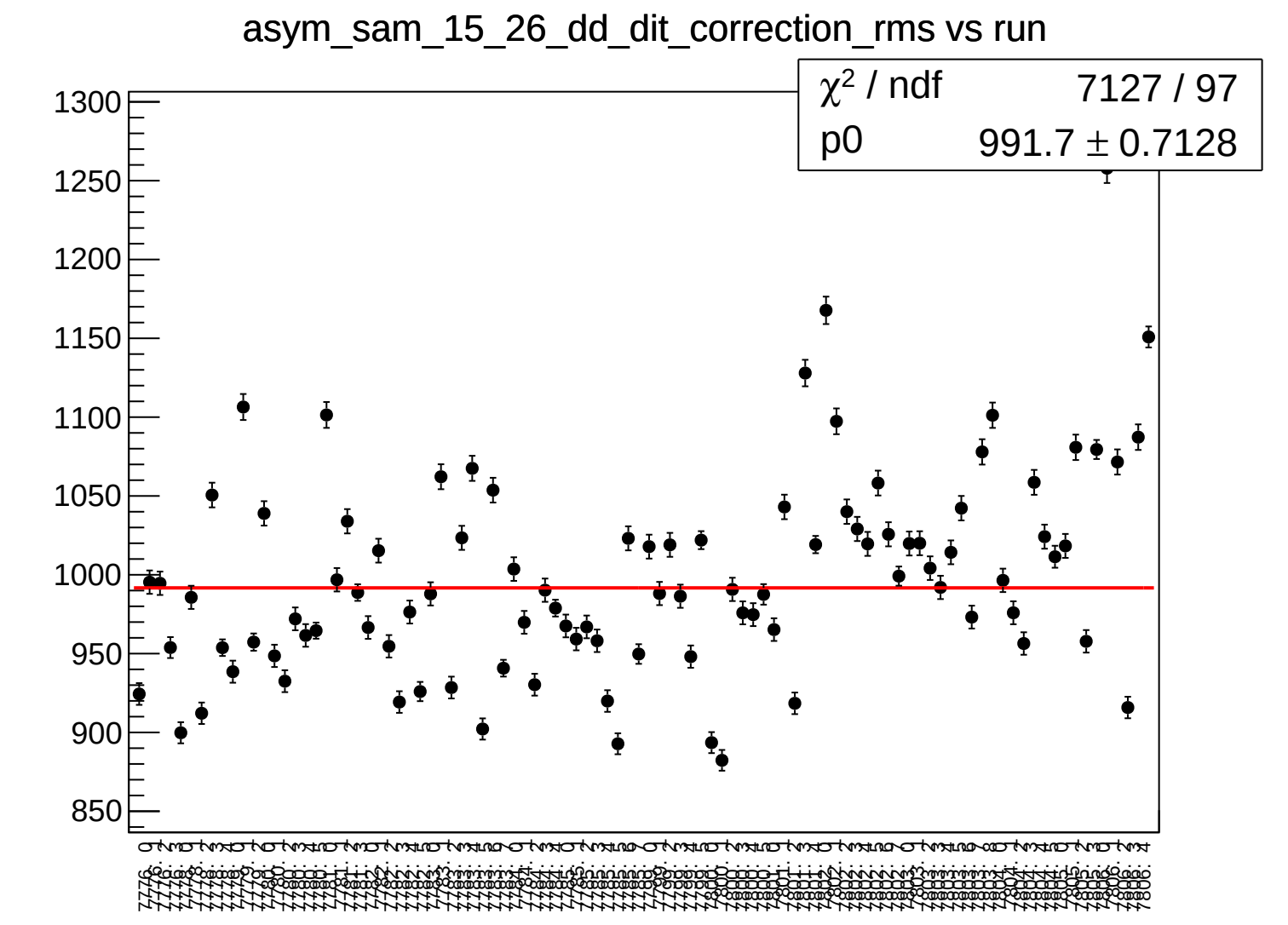

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 66.69 / 97
p0 −100 ± 105
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 98
Mean −147.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

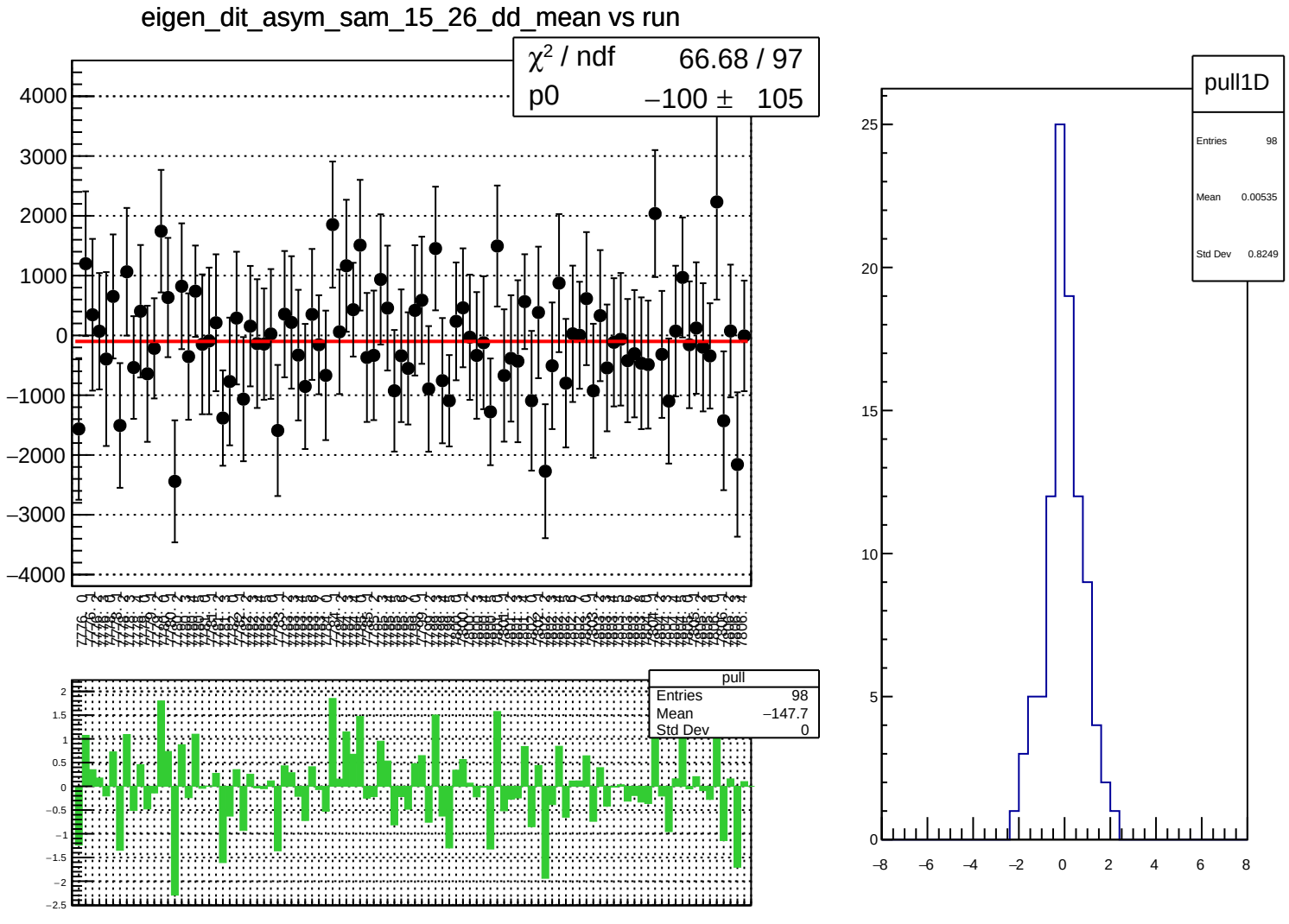

pull1D
Entries 98
Mean 0.00535
Std Dev 0.8249
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

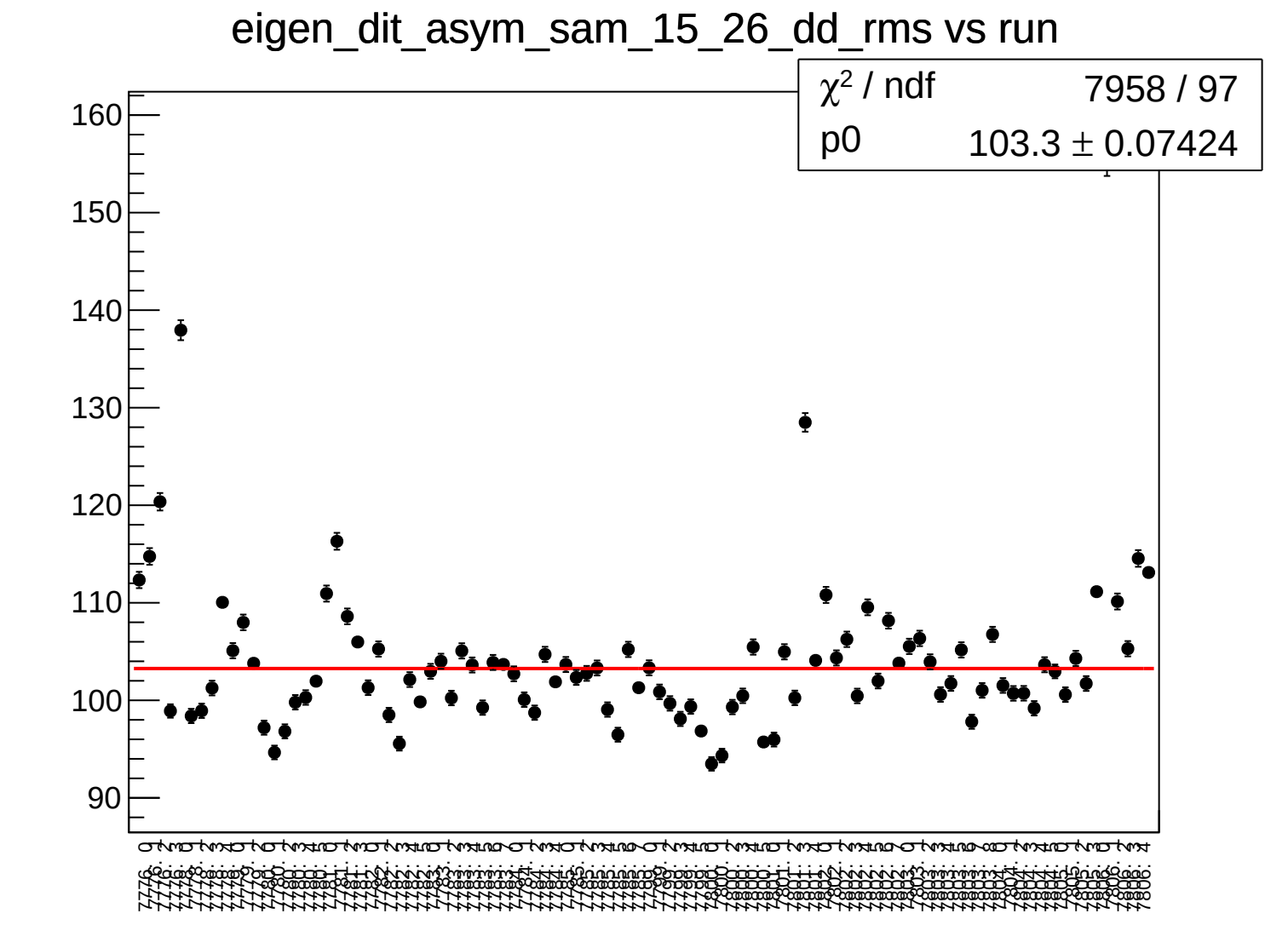

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7958 / 97
p0 103.3 ± 0.07424
160
150
140
130
120
110
100
90

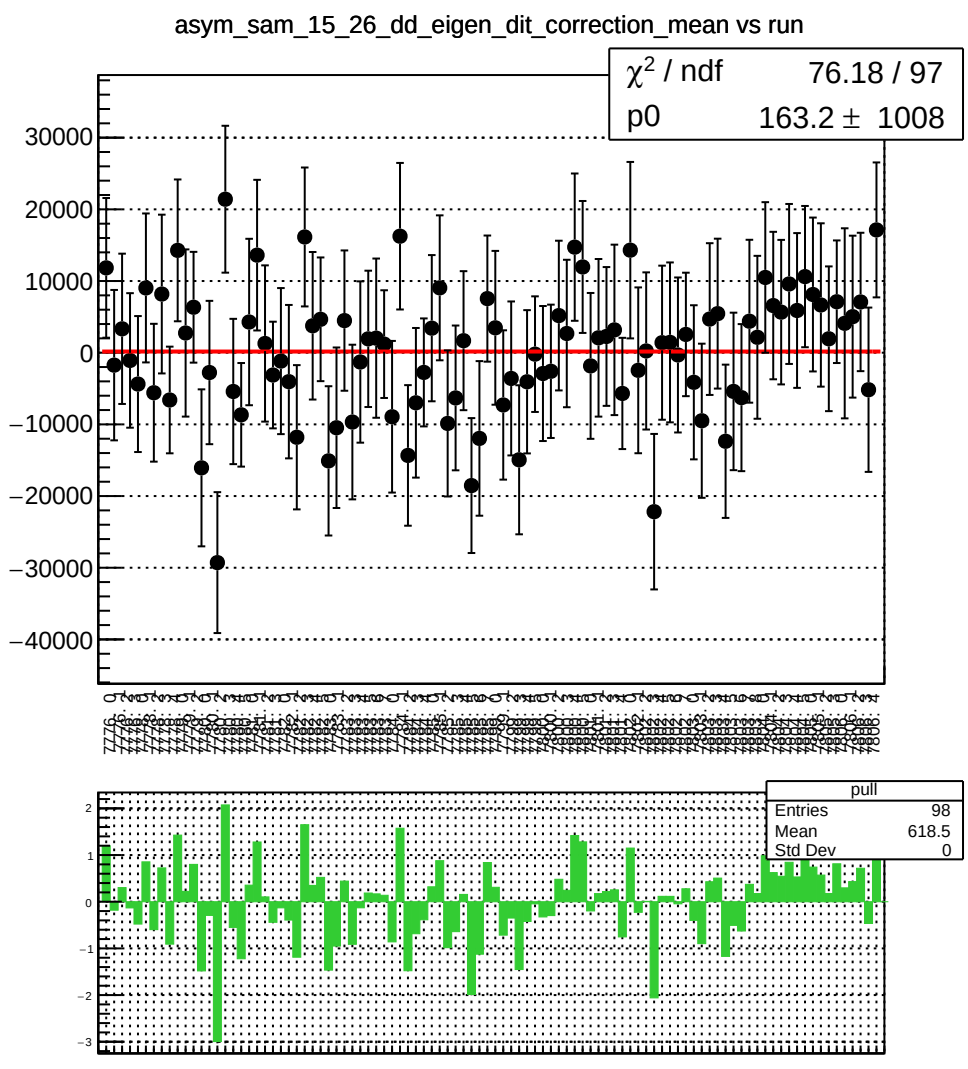

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 76.18 / 97
p0 163.2 ± 1008
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 98
Mean 618.5
Std Dev 0
2
1
0
−1
−2
−3

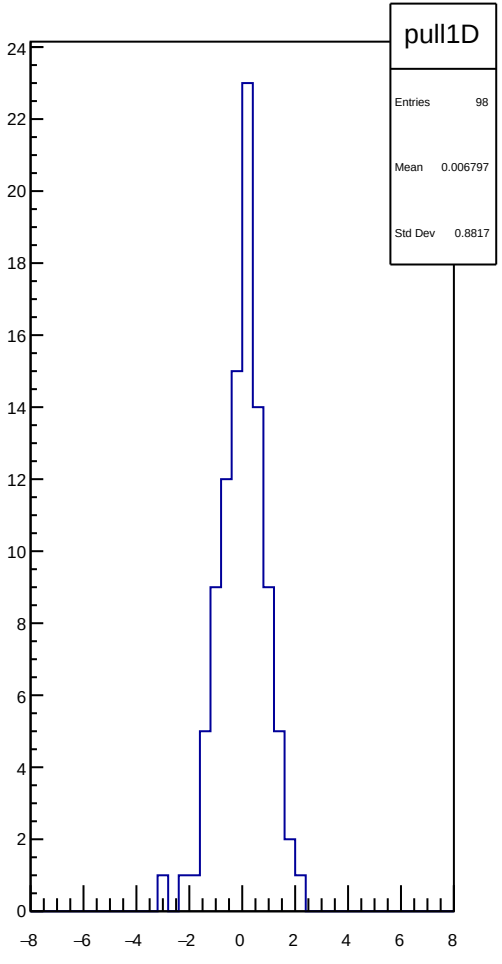

pull1D
Entries 98
Mean 0.006797
Std Dev 0.8817
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

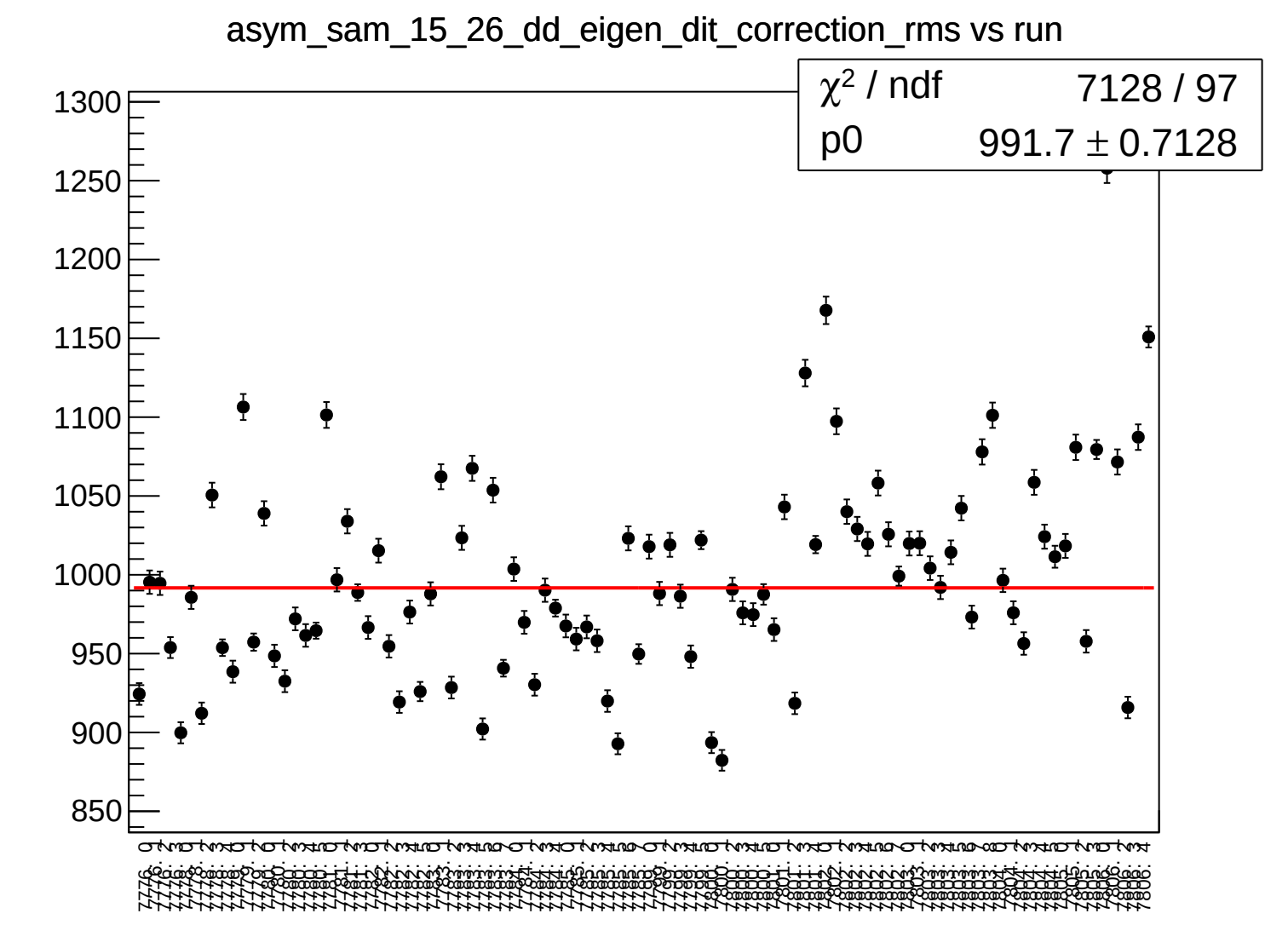

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 7127 / 97
p0 991.7 ± 0.7128
1300
1250
1200
1150
1100
1050
1000
950
900
850

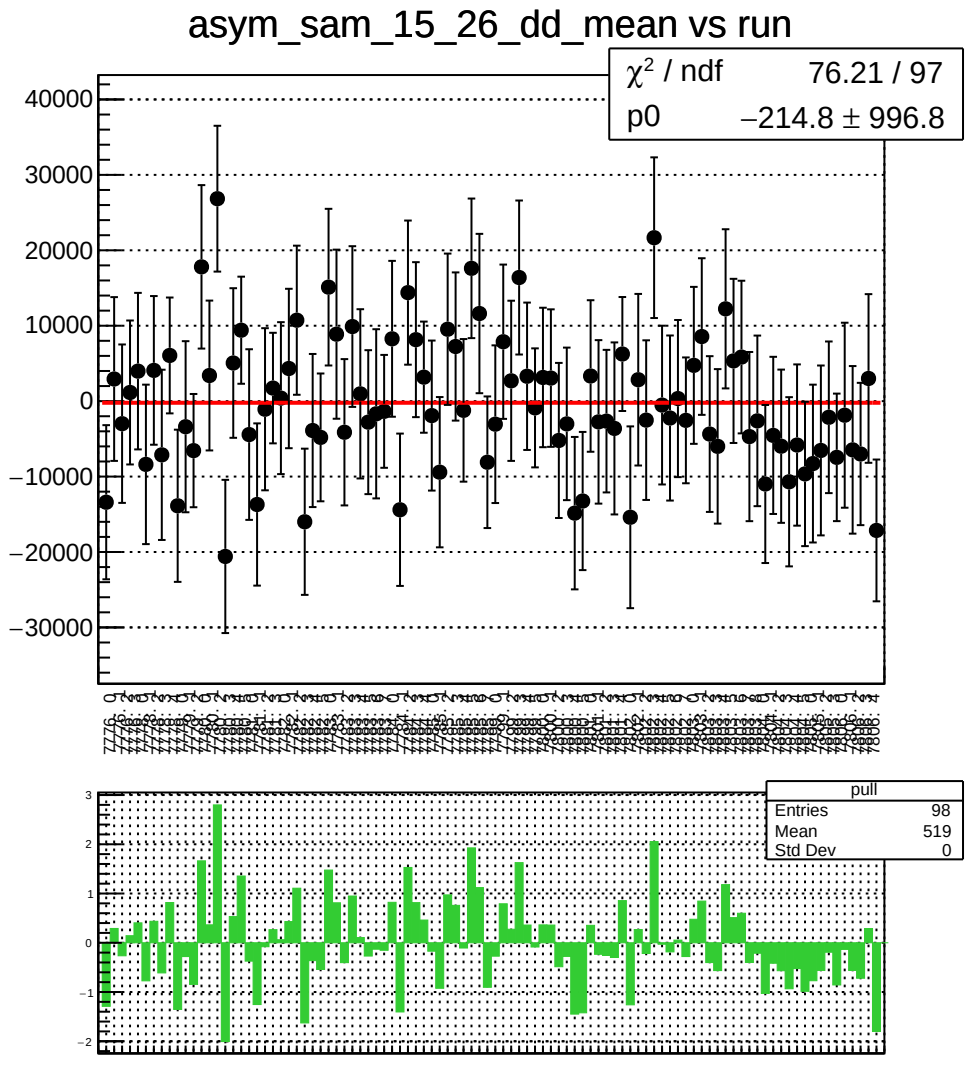

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 66.68 / 97
p0 −100 ± 105
pull
Entries 98
Mean −147.7
Std Dev 0
pull1D
Entries 98
Mean 0.00535
Std Dev 0.8249

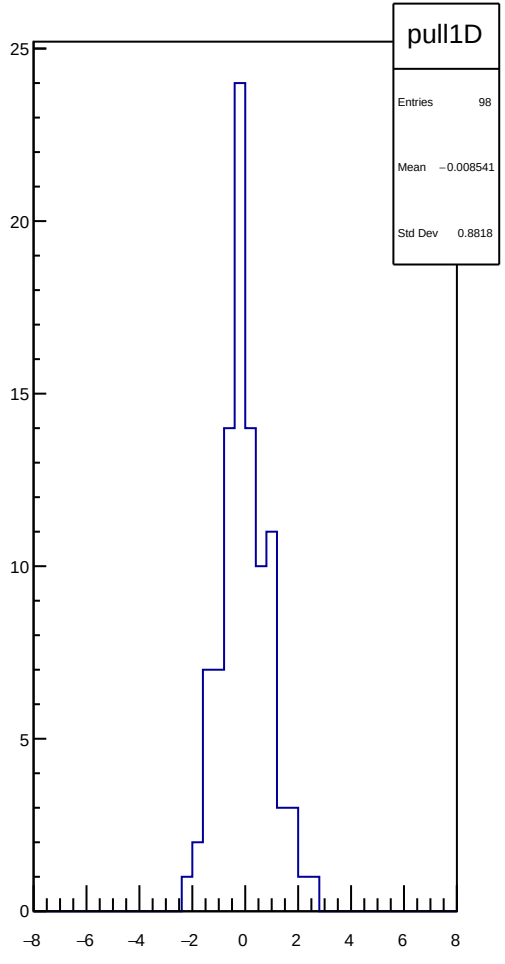

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7958 / 97
p0 103.3 ± 0.07424
160
150
140
130
120
110
100
90

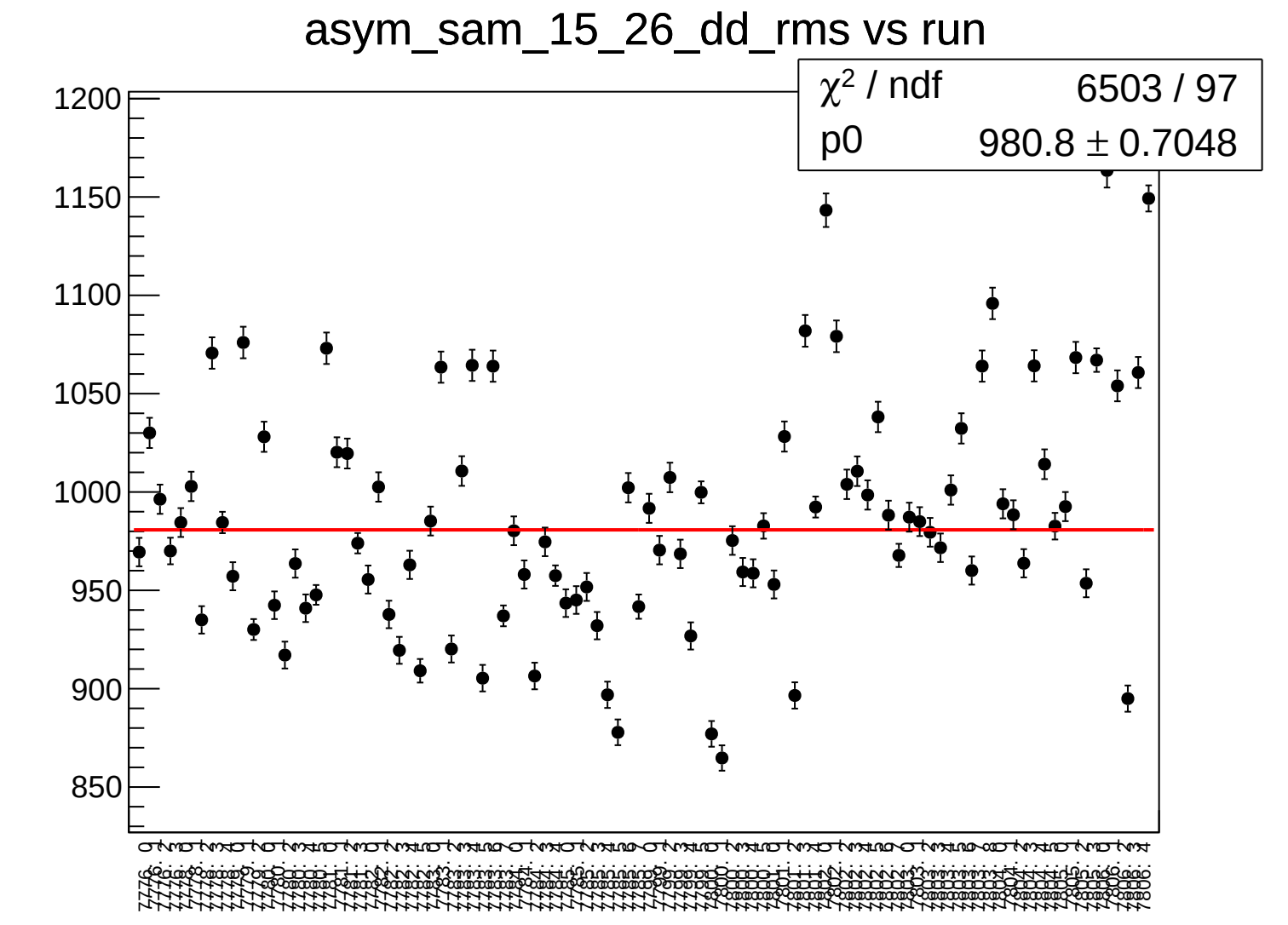

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.18 / 97
p0 163.2 ± 1008
pull
Entries 98
Mean 618.5
Std Dev 0

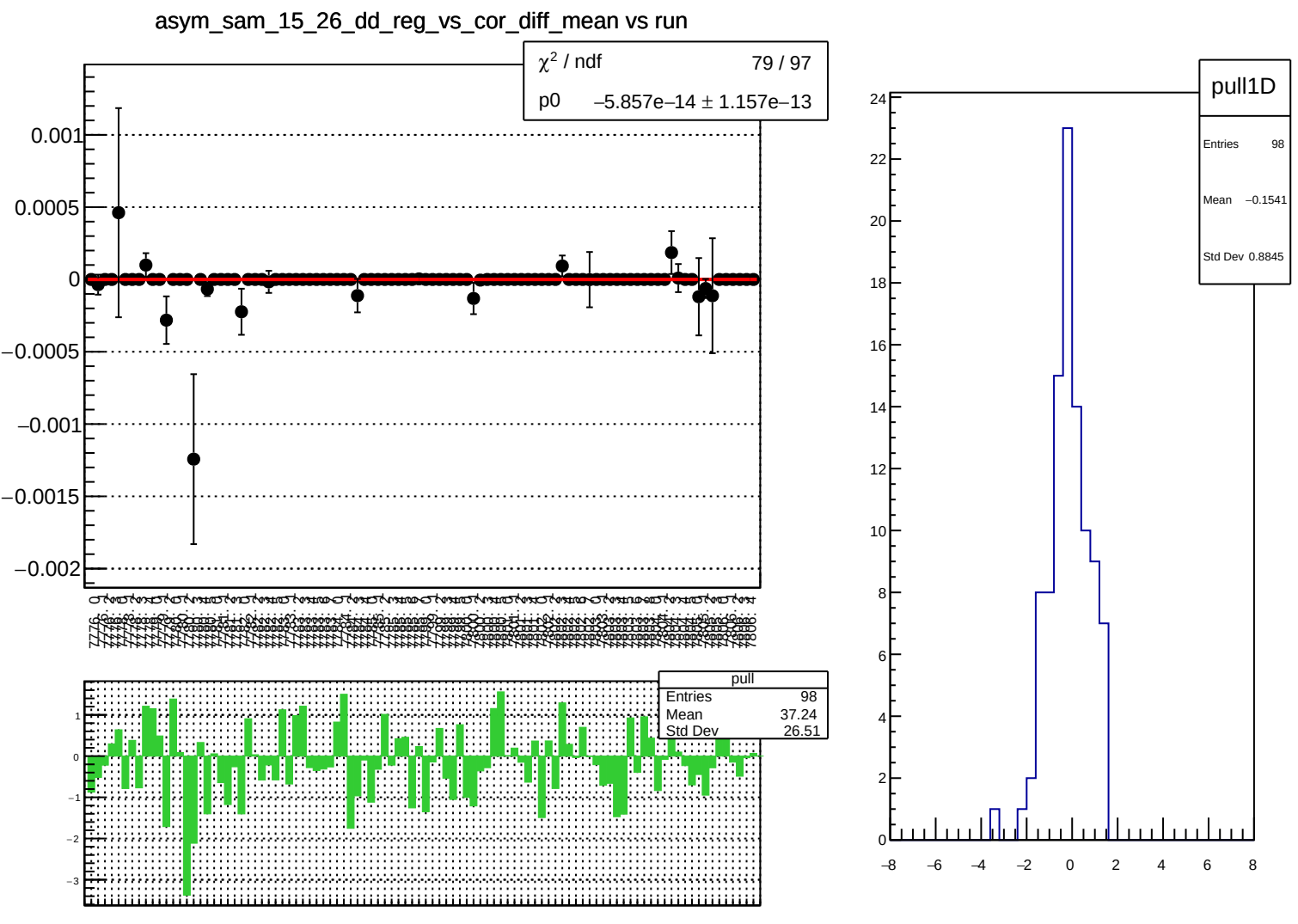

pull1D
Entries 98
Mean 0.006797
Std Dev 0.8817

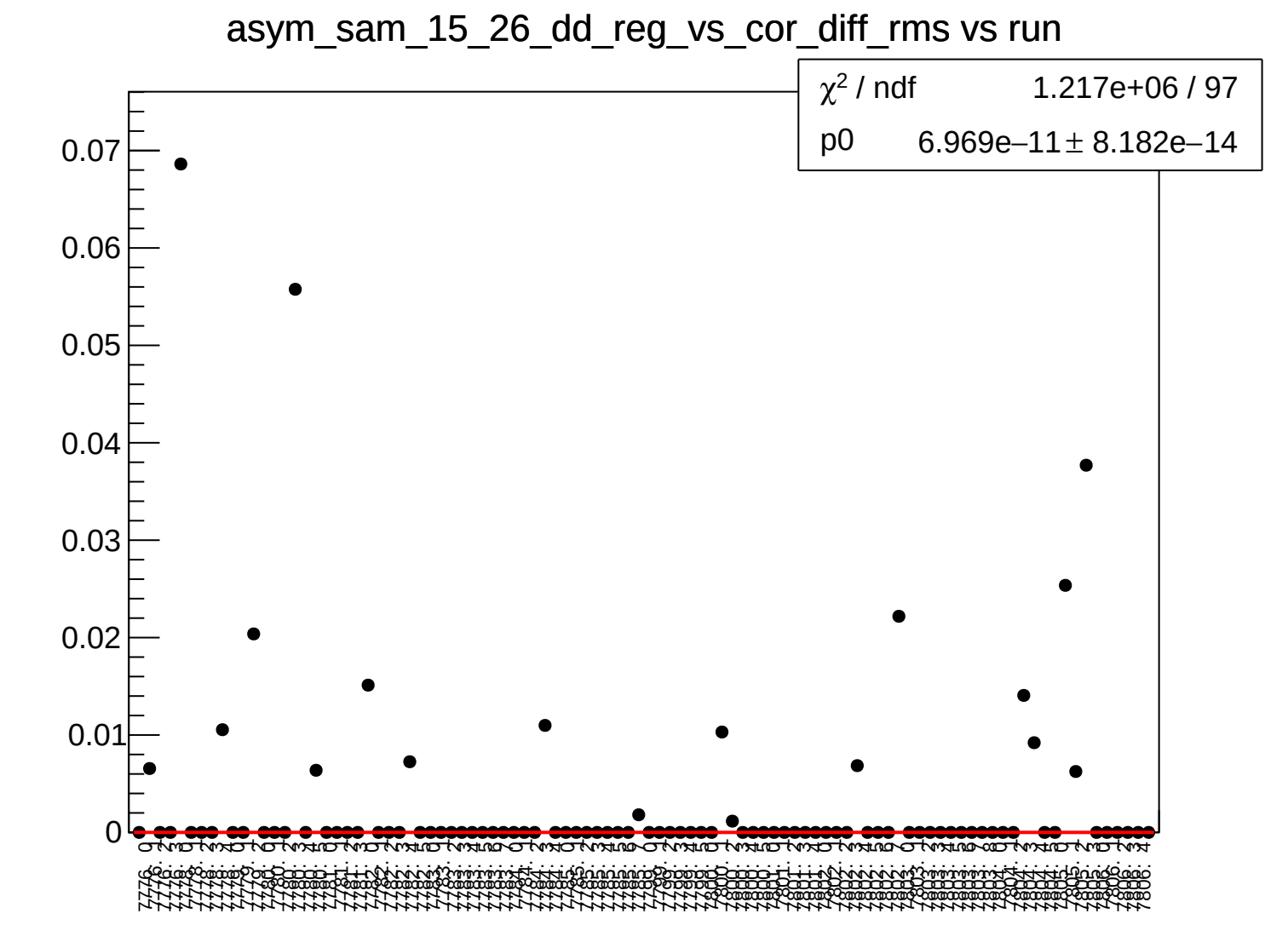

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 7128 / 97
p0 991.7 ± 0.7128
1300
1250
1200
1150
1100
1050
1000
950
900
850

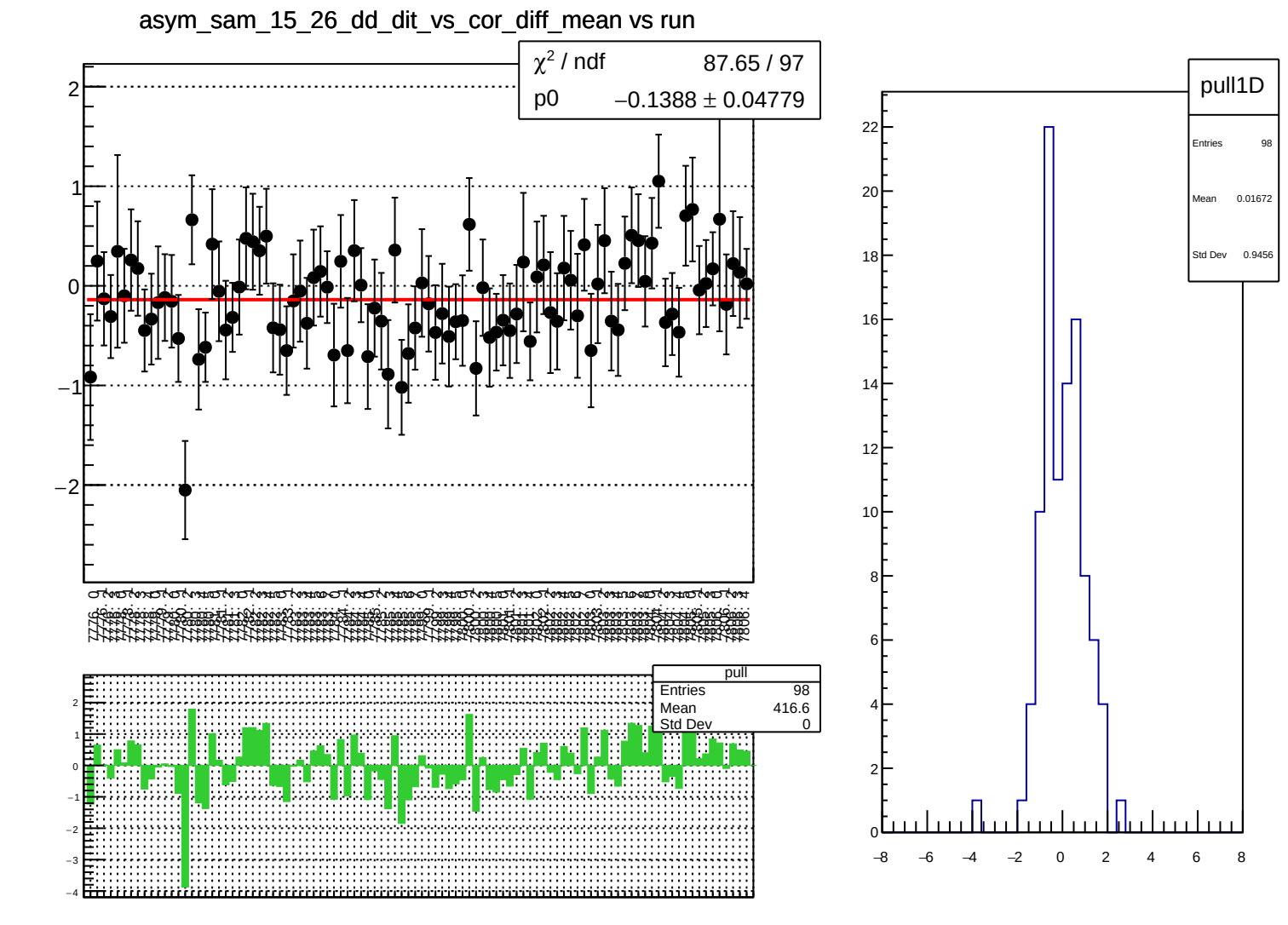

asym_sam_15_26_dd_mean vs run
χ² / ndf 76.21 / 97
p0 −214.8 ± 996.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean 519
Std Dev 0
3
2
1
0
−1
−2

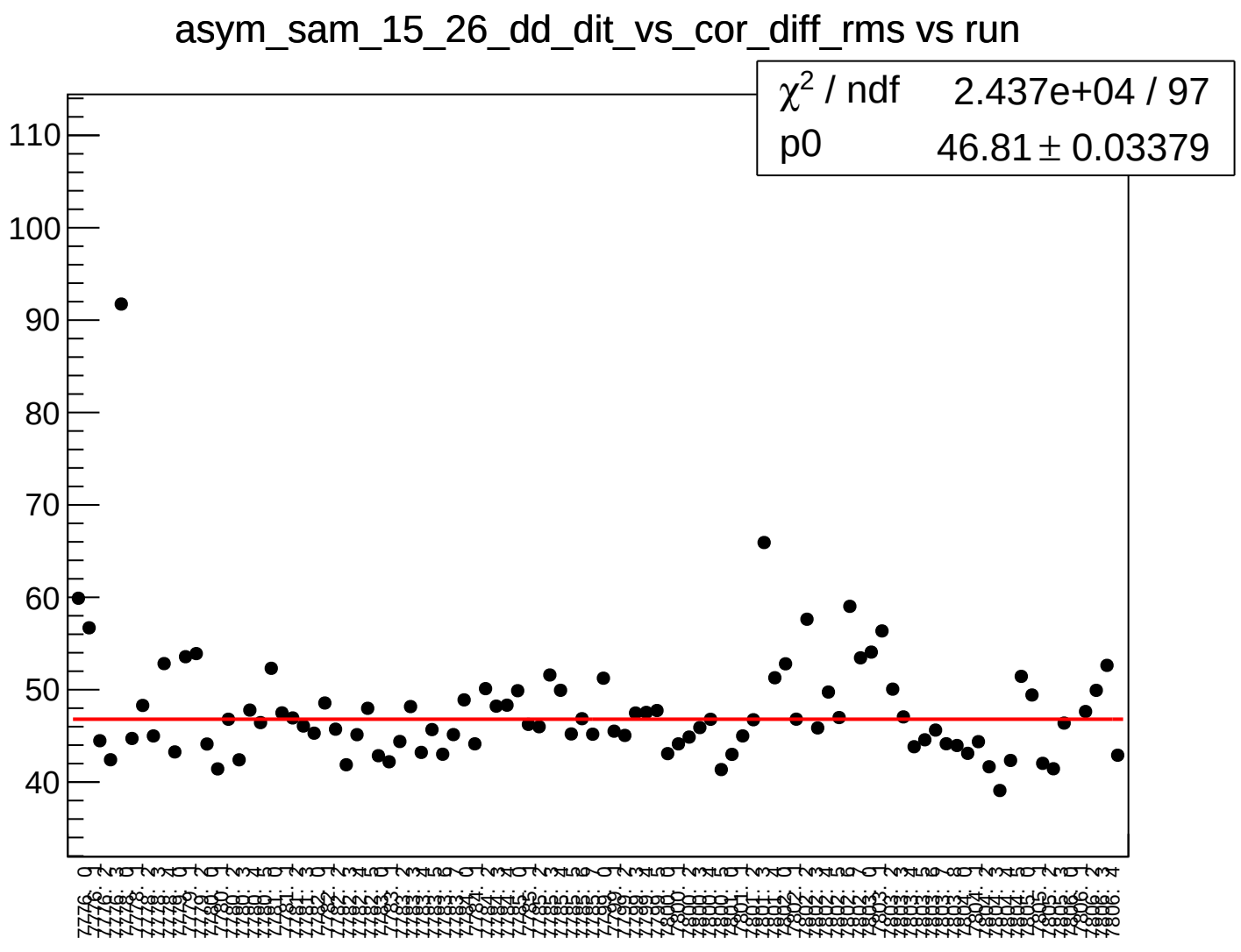

pull1D
Entries 98
Mean −0.008541
Std Dev 0.8818
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

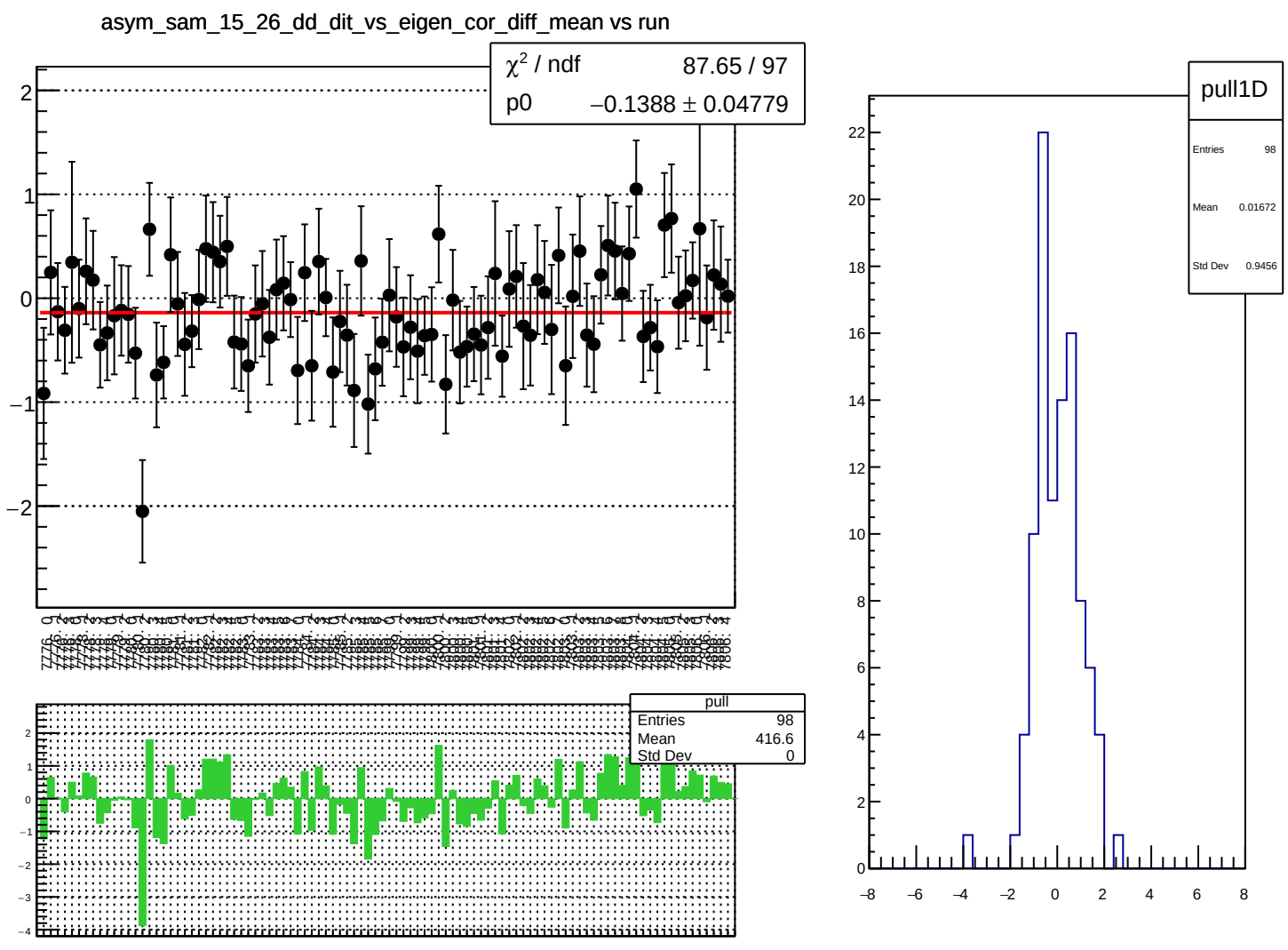

asym_sam_15_26_dd_rms vs run
χ² / ndf 6503 / 97
p0 980.8 ± 0.7048
1200
1150
1100
1050
1000
950
900
850

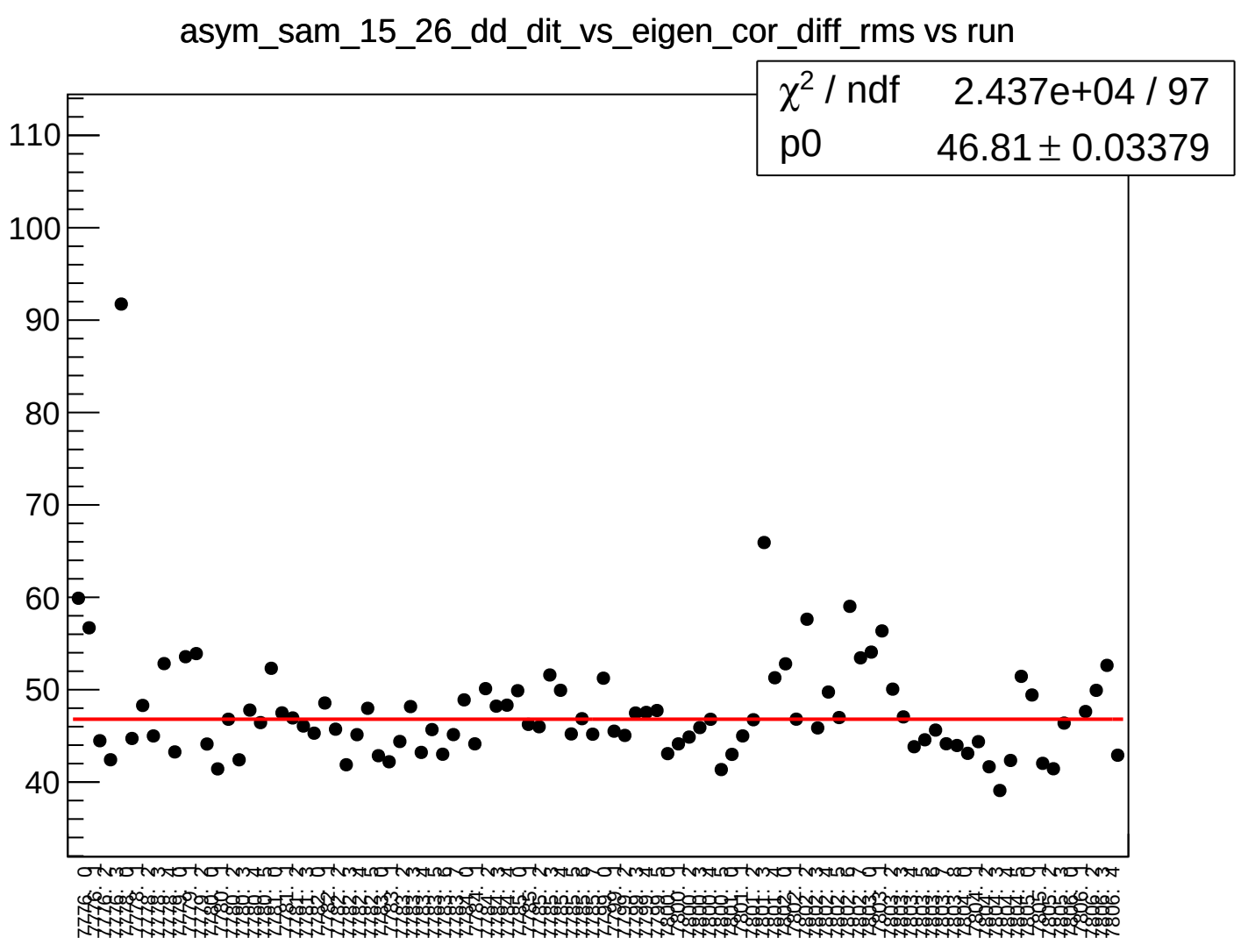

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79 / 97
p0 −5.857e−14 ± 1.157e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 98
Mean 37.24
Std Dev 26.51
pull1D
Entries 98
Mean −0.1541
Std Dev 0.8845

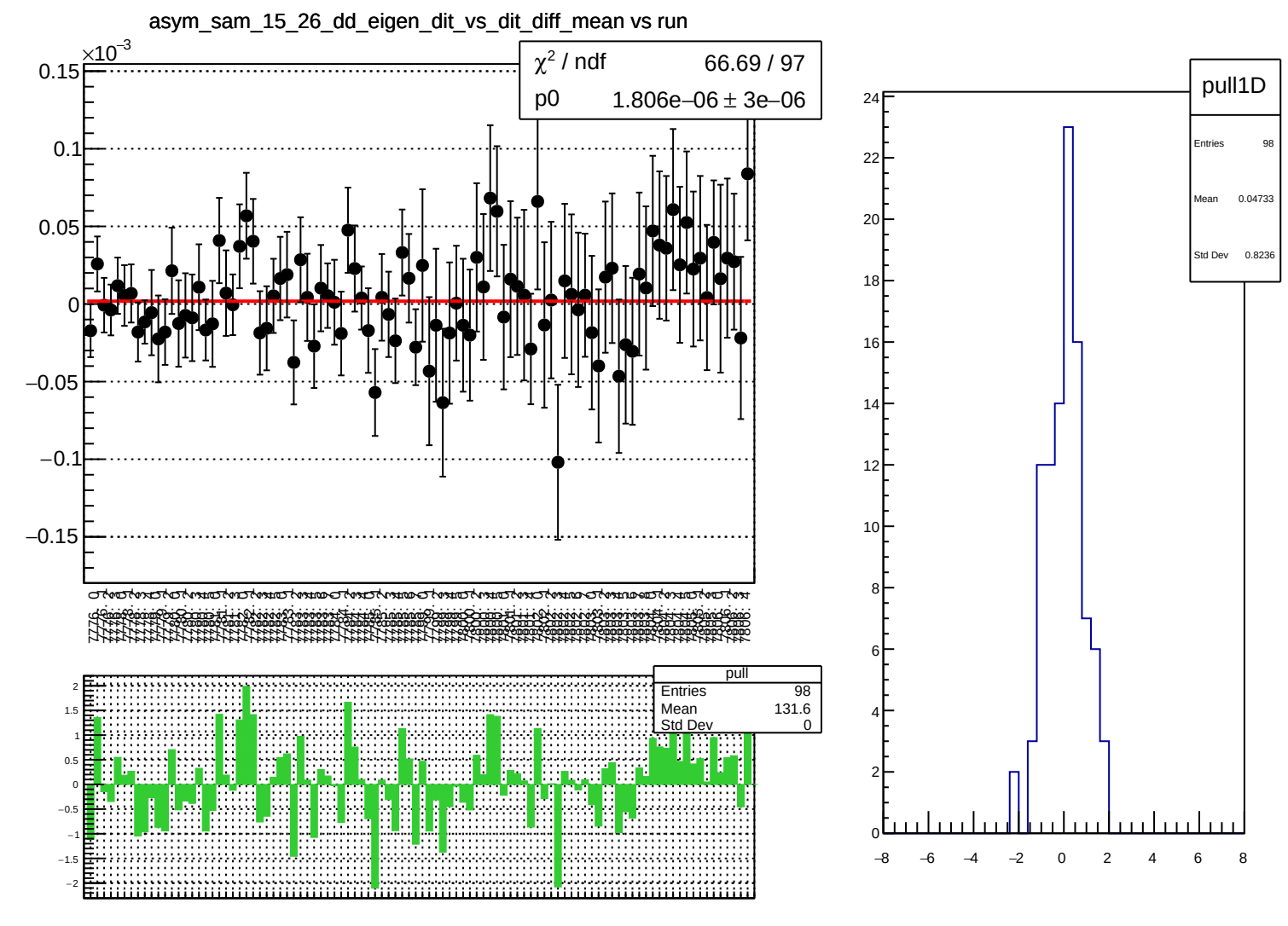

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.217e+06 / 97
p0 6.969e−11 ± 8.182e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

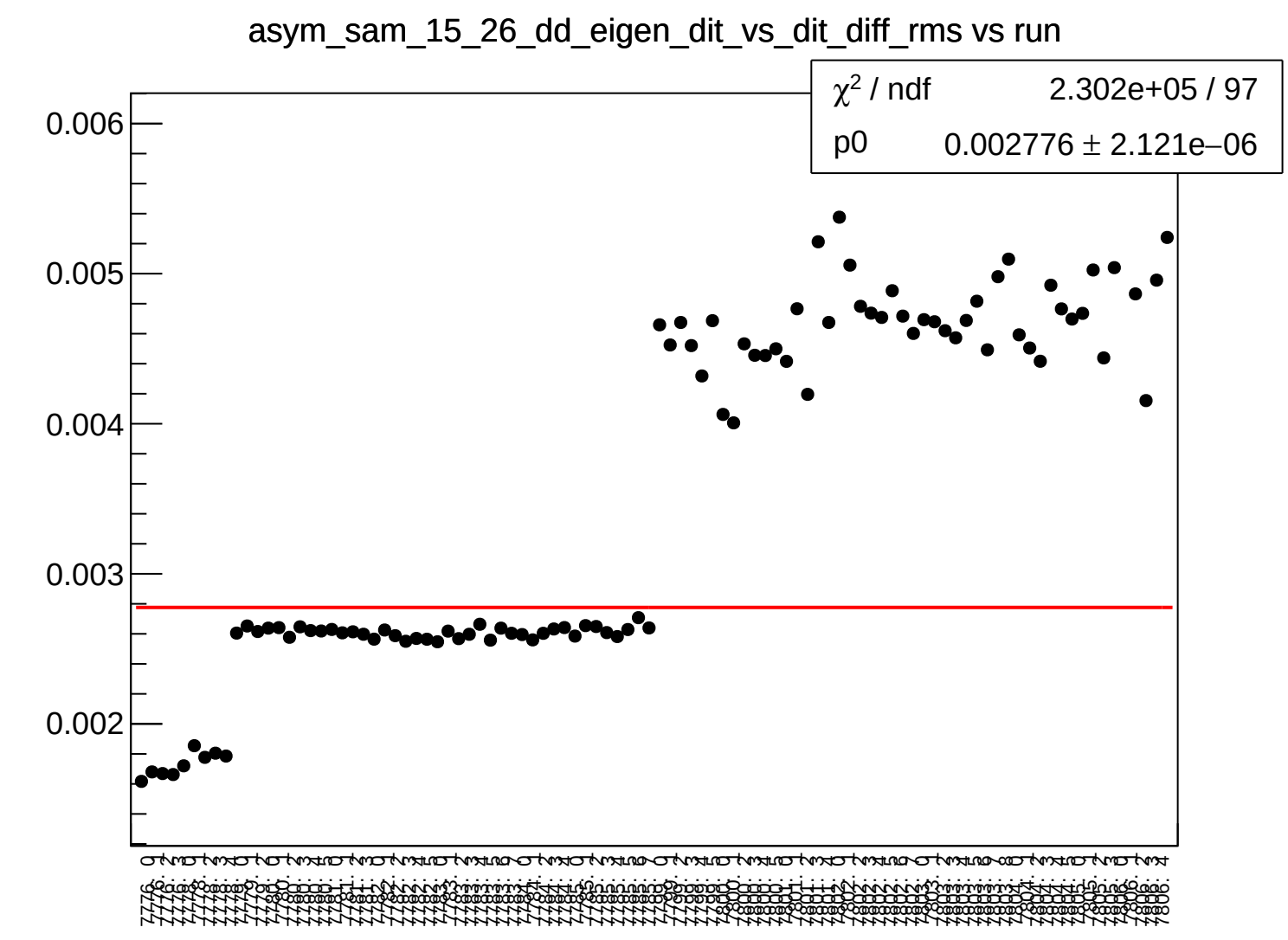

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.65 / 97
p0 −0.1388 ± 0.04779
pull
Entries 98
Mean 416.6
Std Dev 0
pull1D
Entries 98
Mean 0.01672
Std Dev 0.9456

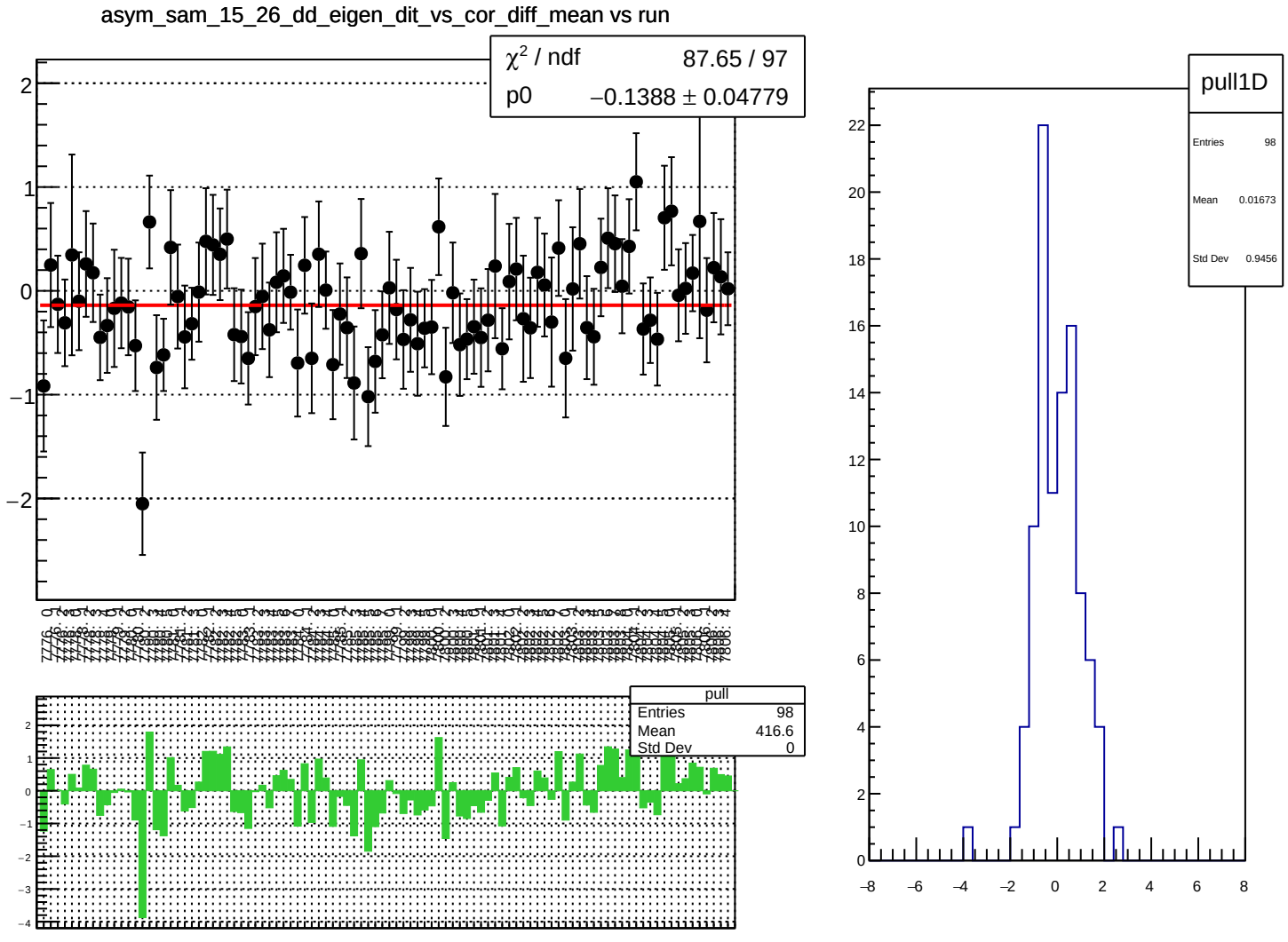

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.437e+04 / 97
p0 46.81 ± 0.03379
110
100
90
80
70
60
50
40

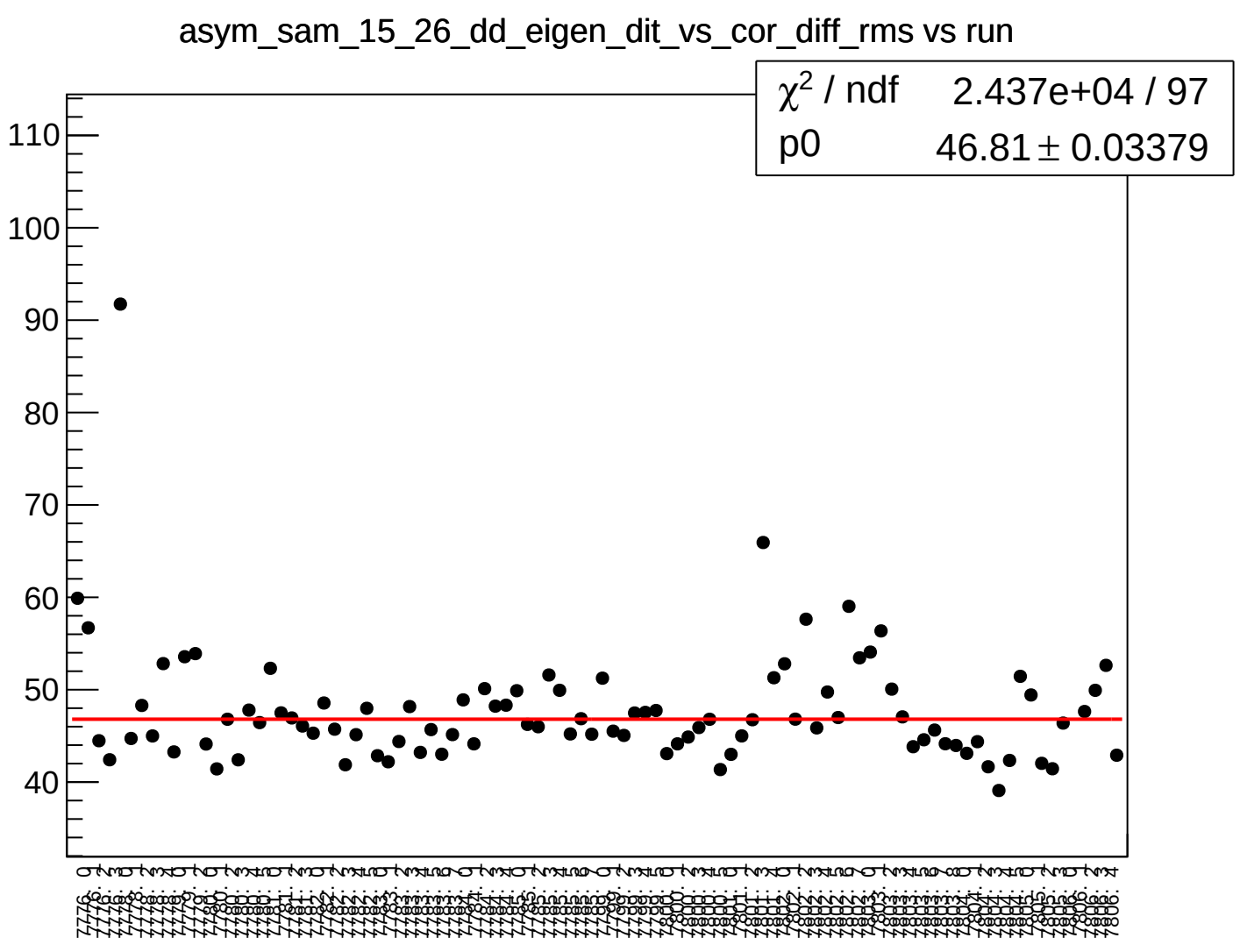

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.65 / 97
p0 −0.1388 ± 0.04779
pull
Entries 98
Mean 416.6
Std Dev 0
pull1D
Entries 98
Mean 0.01672
Std Dev 0.9456

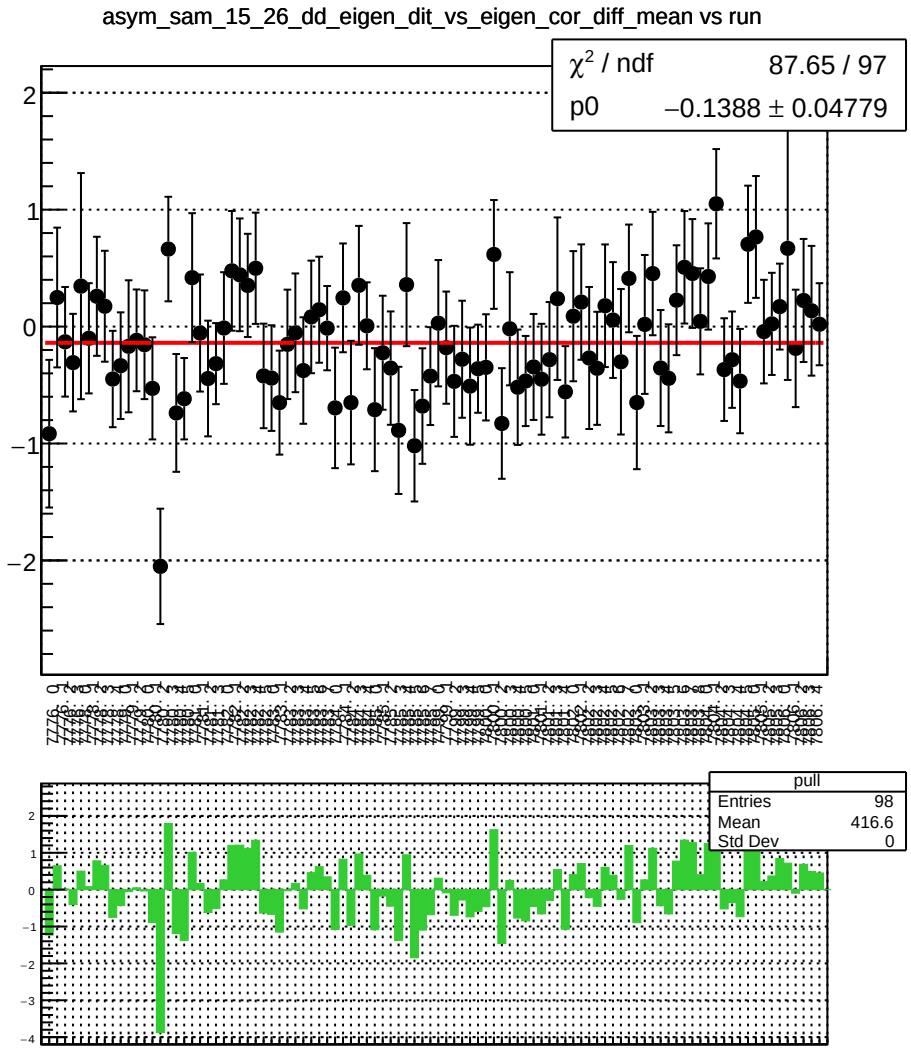

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.437e+04 / 97
p0 46.81 ± 0.03379
110
100
90
80
70
60
50
40

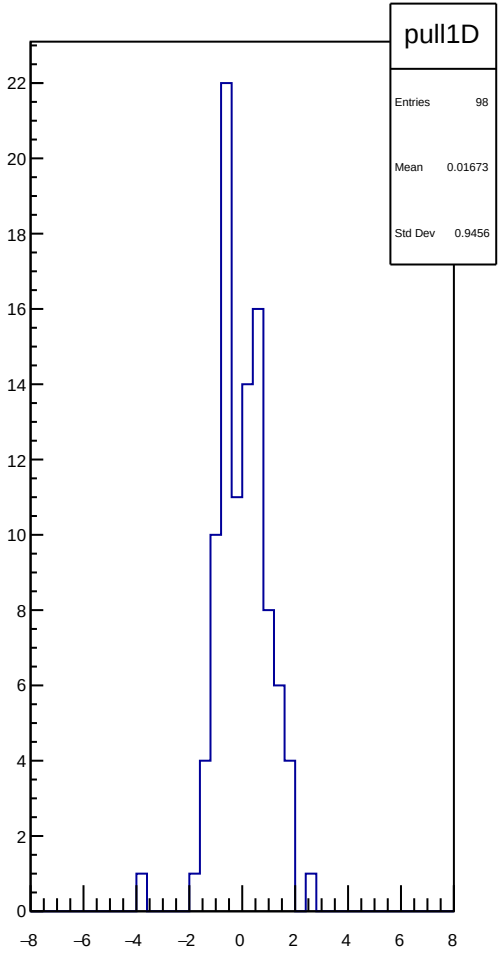

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 66.69 / 97
p0 1.806e−06 ± 3e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 98
Mean 131.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.04733
Std Dev 0.8236
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

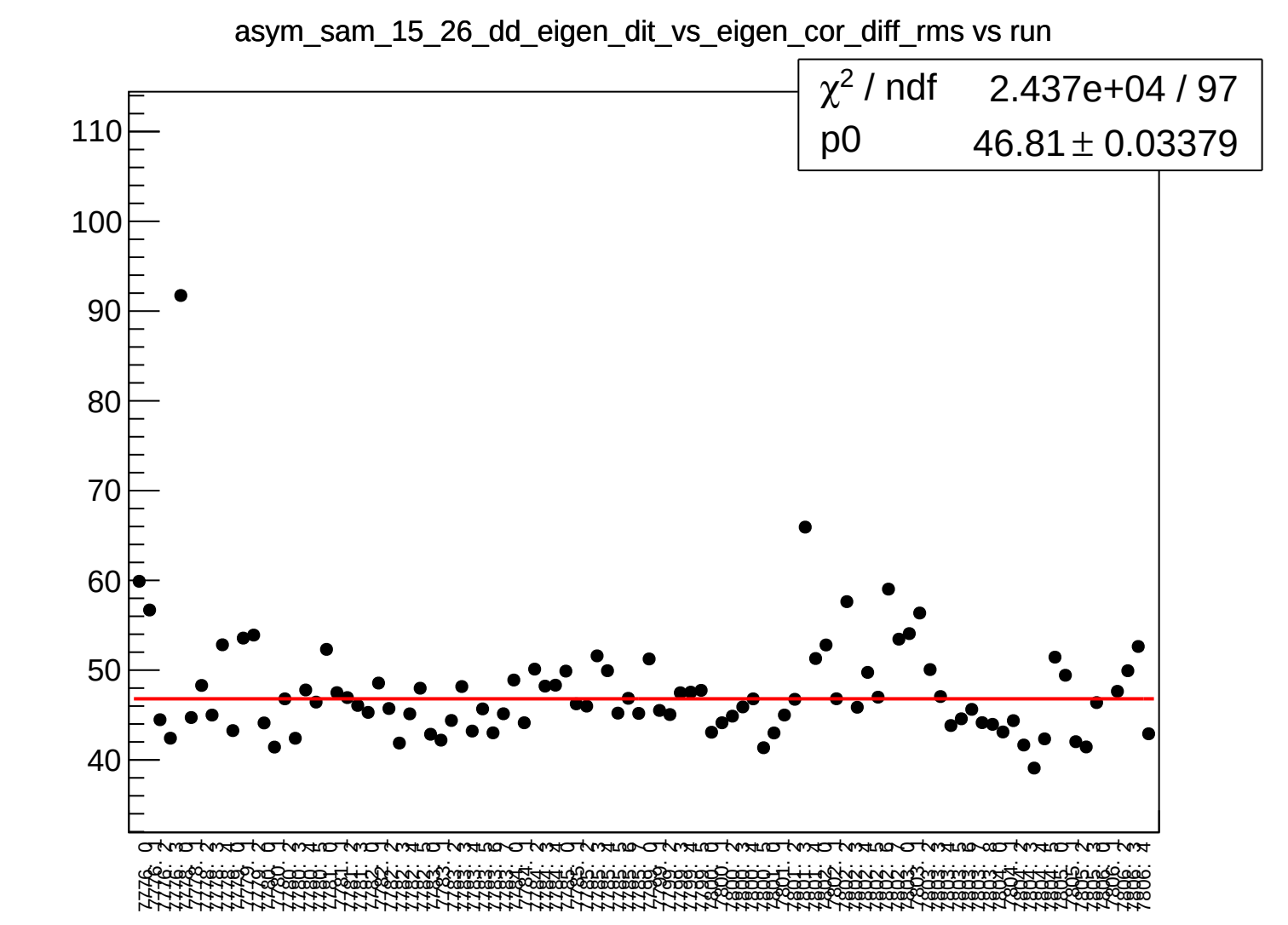

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.302e+05 / 97
p0 0.002776 ± 2.121e−06
0.006
0.005
0.004
0.003
0.002

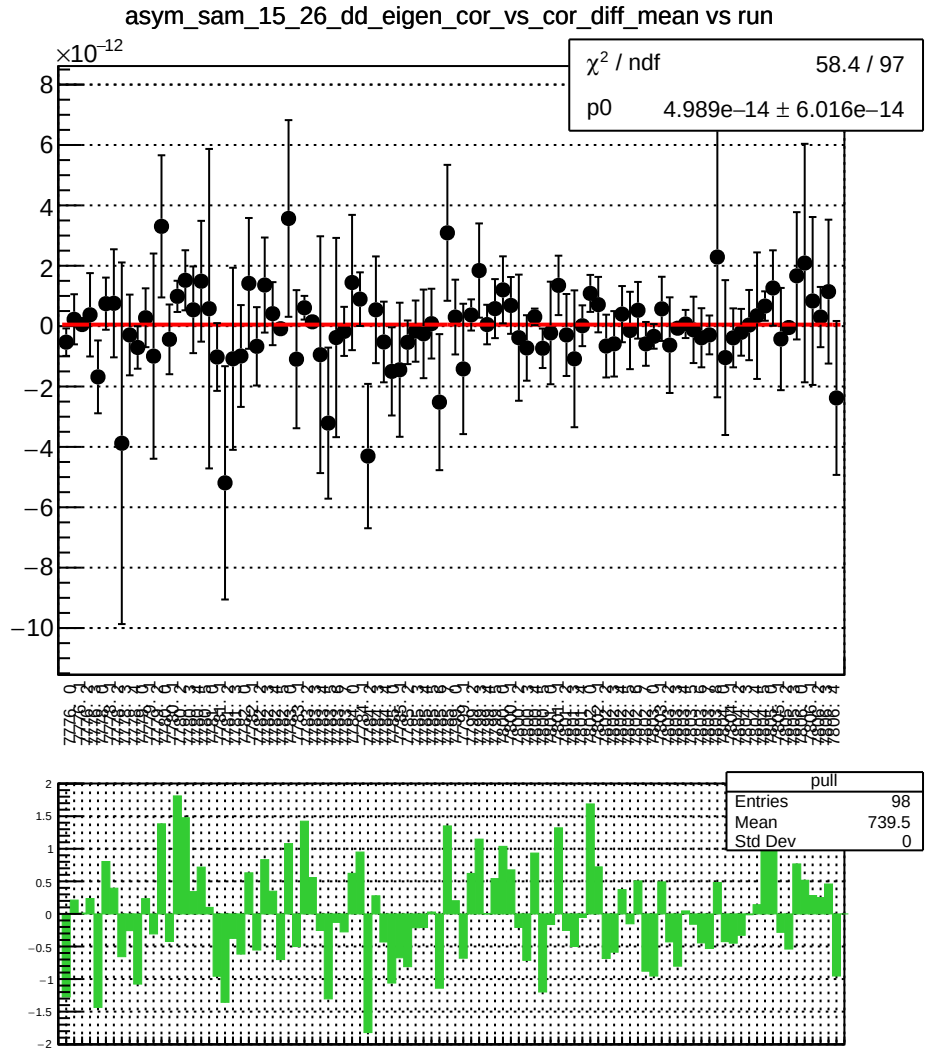

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.65 / 97
p0 −0.1388 ± 0.04779
pull
Entries 98
Mean 416.6
Std Dev 0
pull1D
Entries 98
Mean 0.01673
Std Dev 0.9456

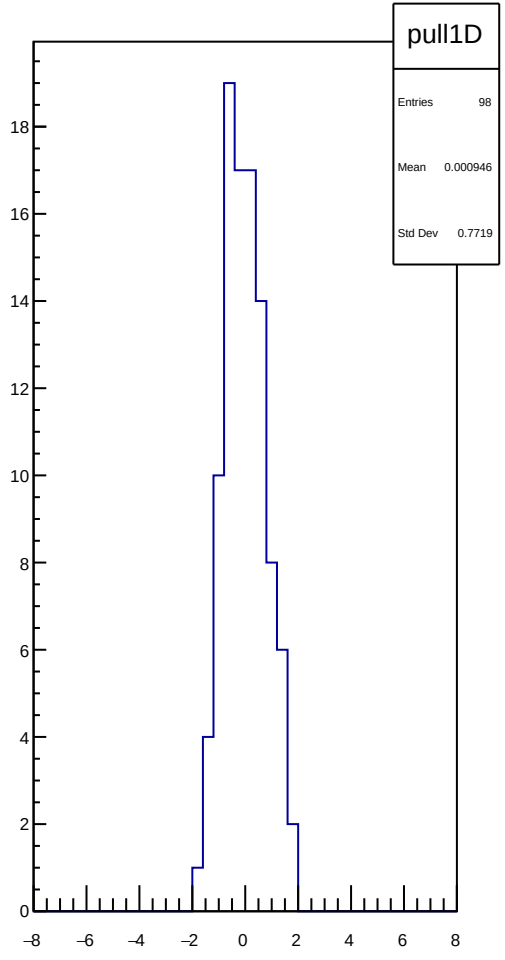

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.437e+04 / 97
p0 46.81 ± 0.03379
110
100
90
80
70
60
50
40

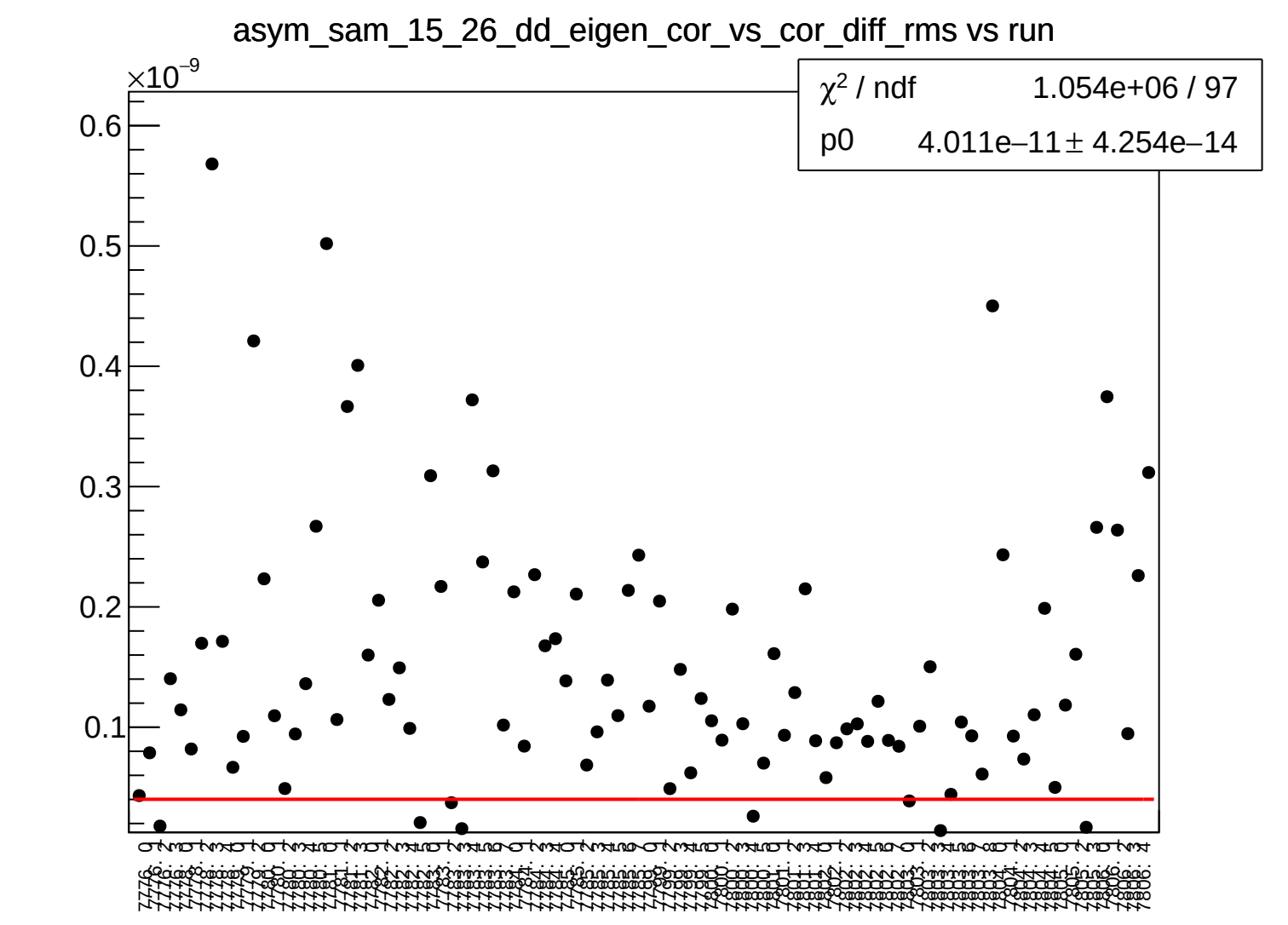

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.65 / 97
p0 −0.1388 ± 0.04779
pull
Entries 98
Mean 416.6
Std Dev 0

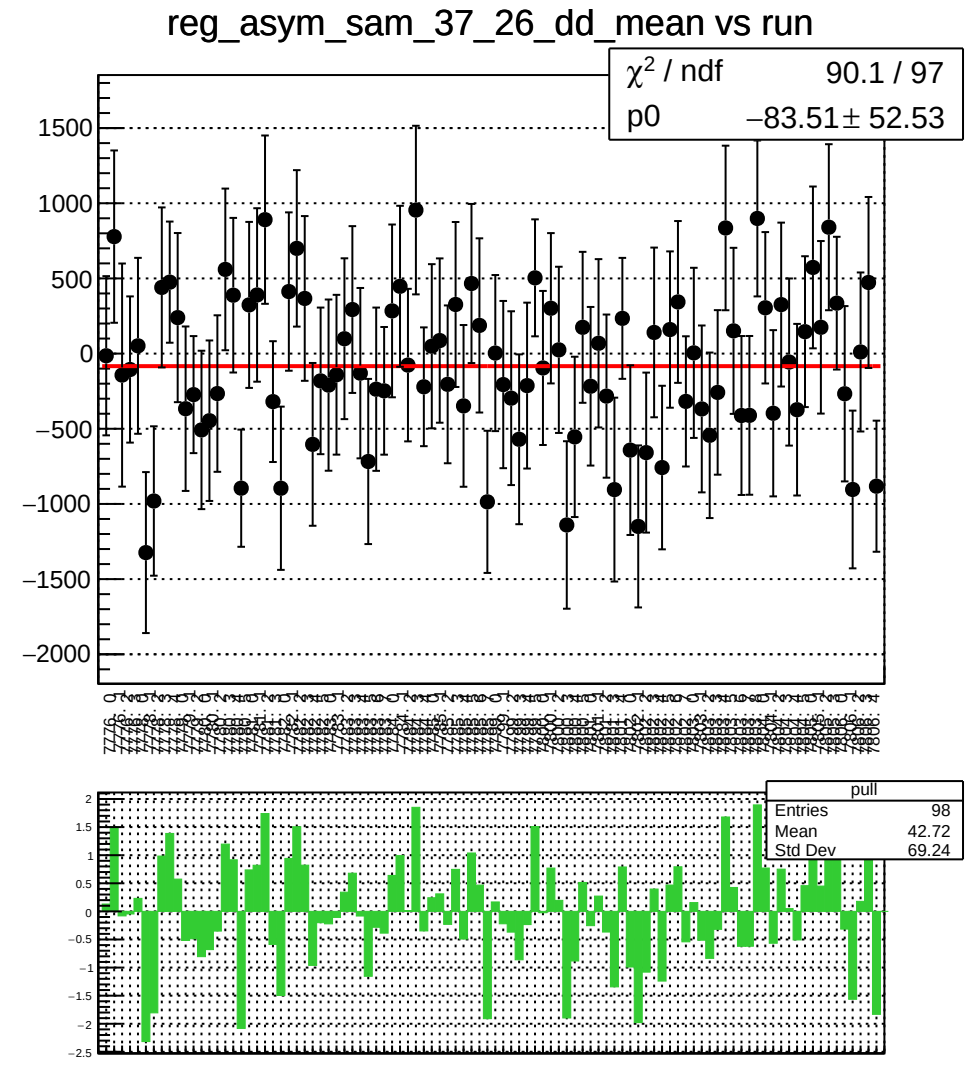

pull1D
Entries 98
Mean 0.01673
Std Dev 0.9456

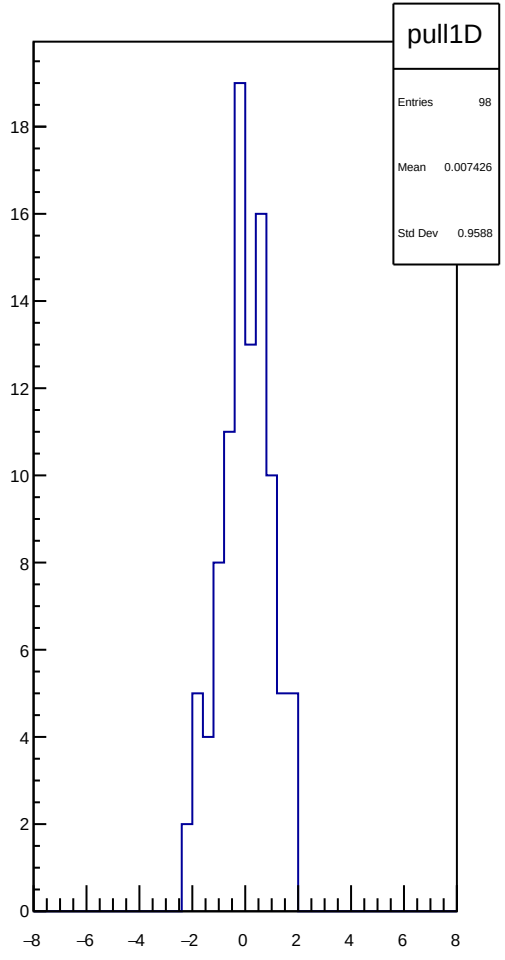

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.437e+04 / 97
p0 46.81 ± 0.03379
110
100
90
80
70
60
50
40

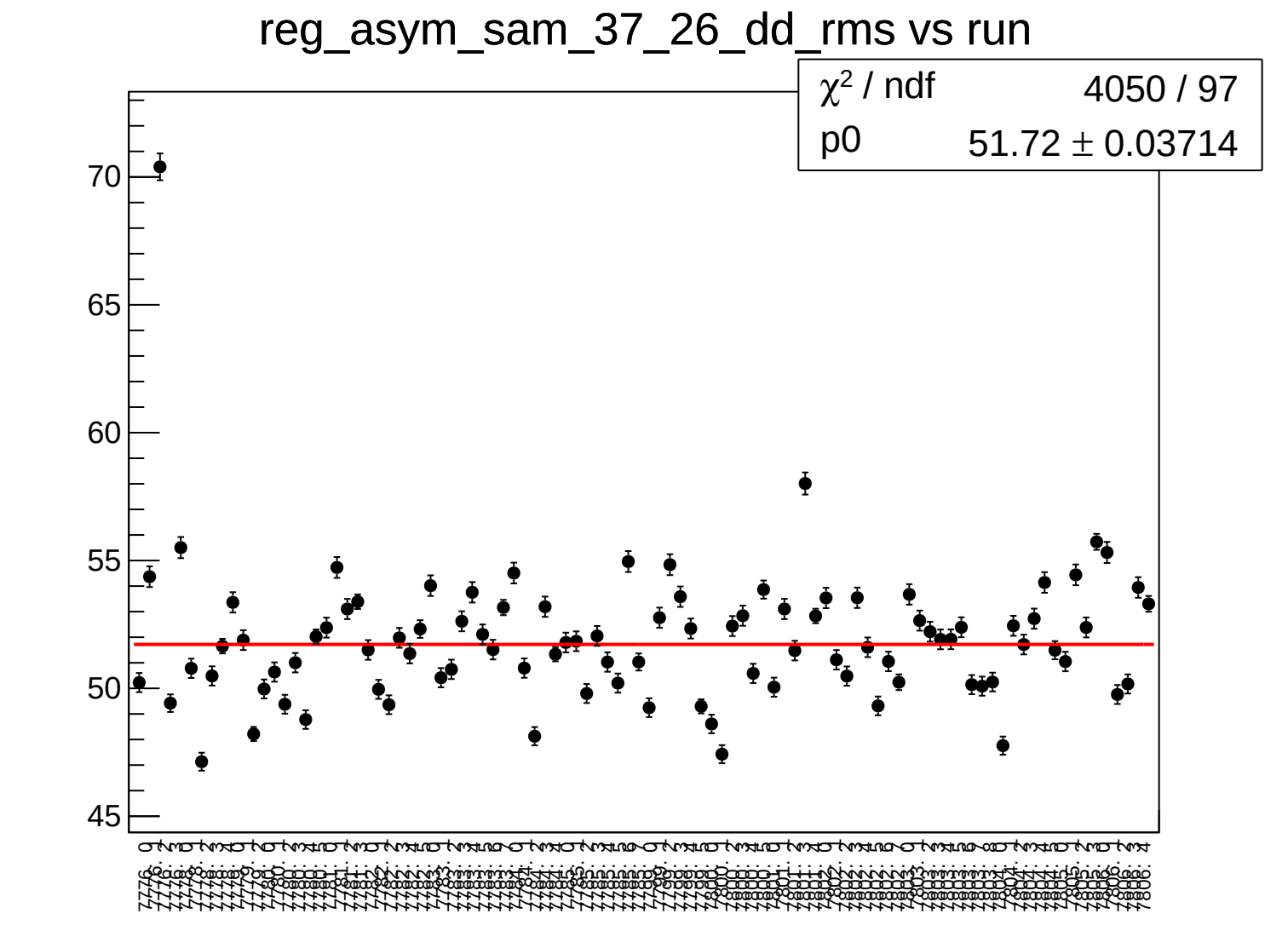

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.4 / 97
p0 4.989e−14 ± 6.016e−14
pull
Entries 98
Mean 739.5
Std Dev 0

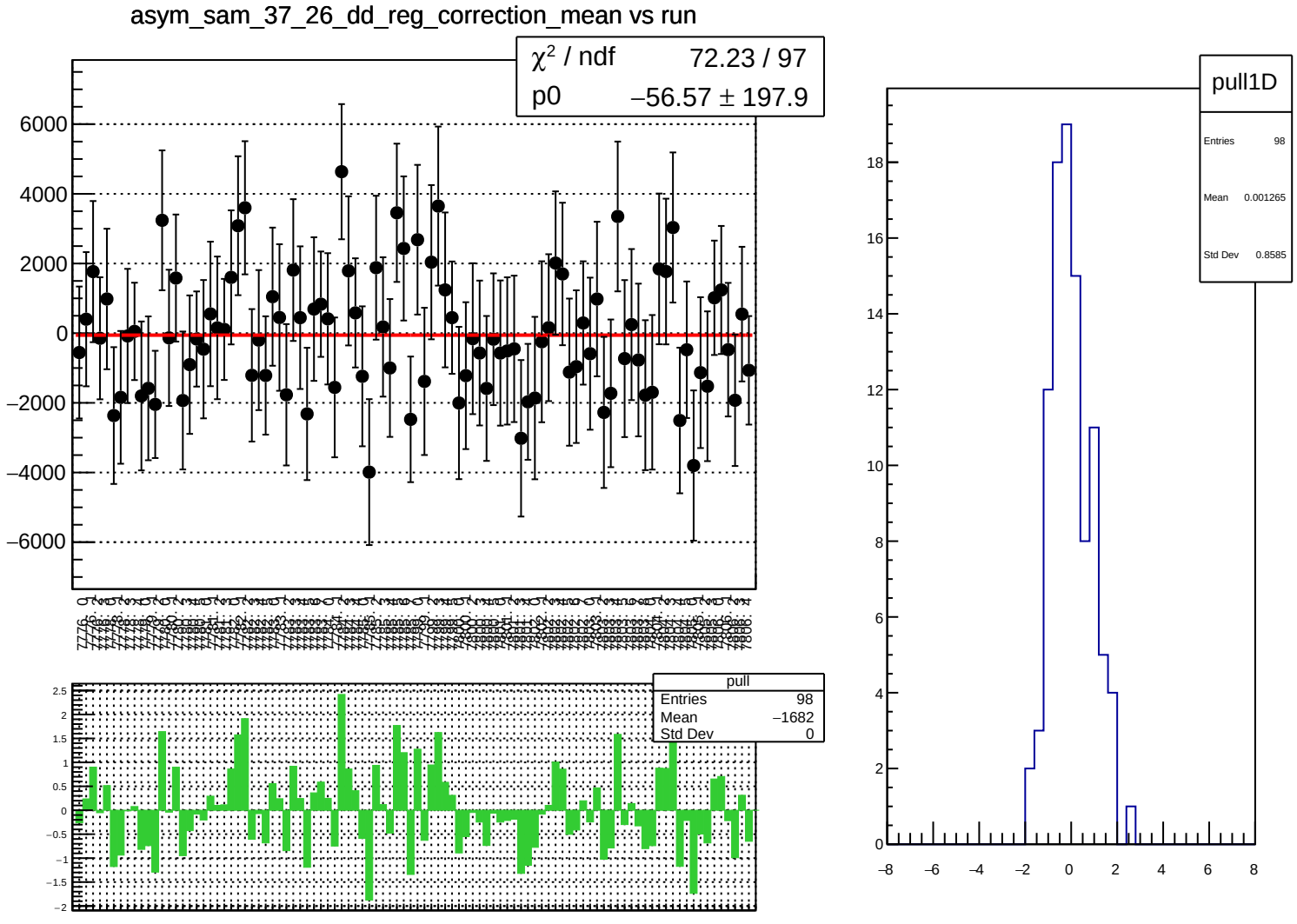

pull1D
Entries 98
Mean 0.000946
Std Dev 0.7719

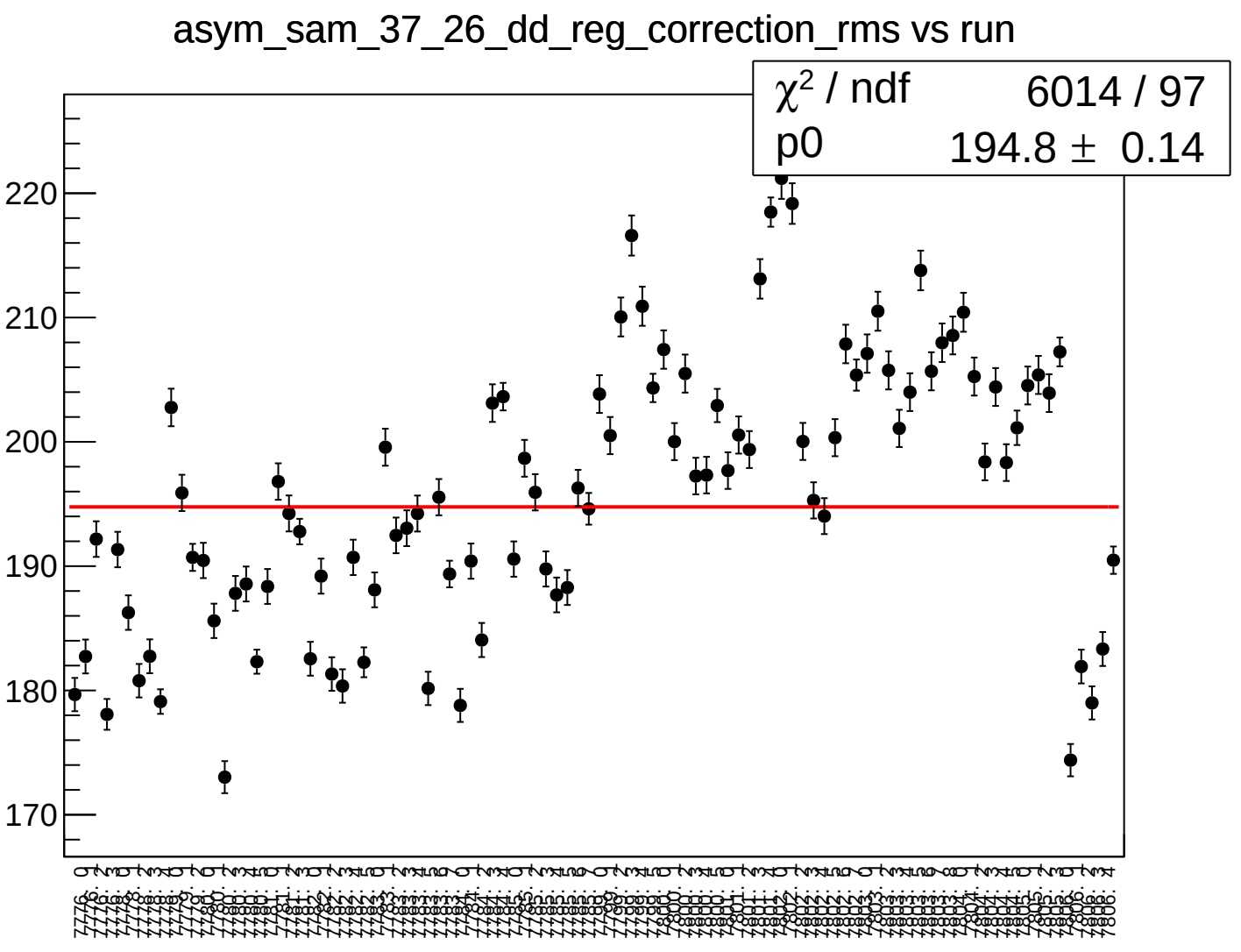

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.054e+06 / 97
p0 4.011e−11 ± 4.254e−14
0.6
0.5
0.4
0.3
0.2
0.1

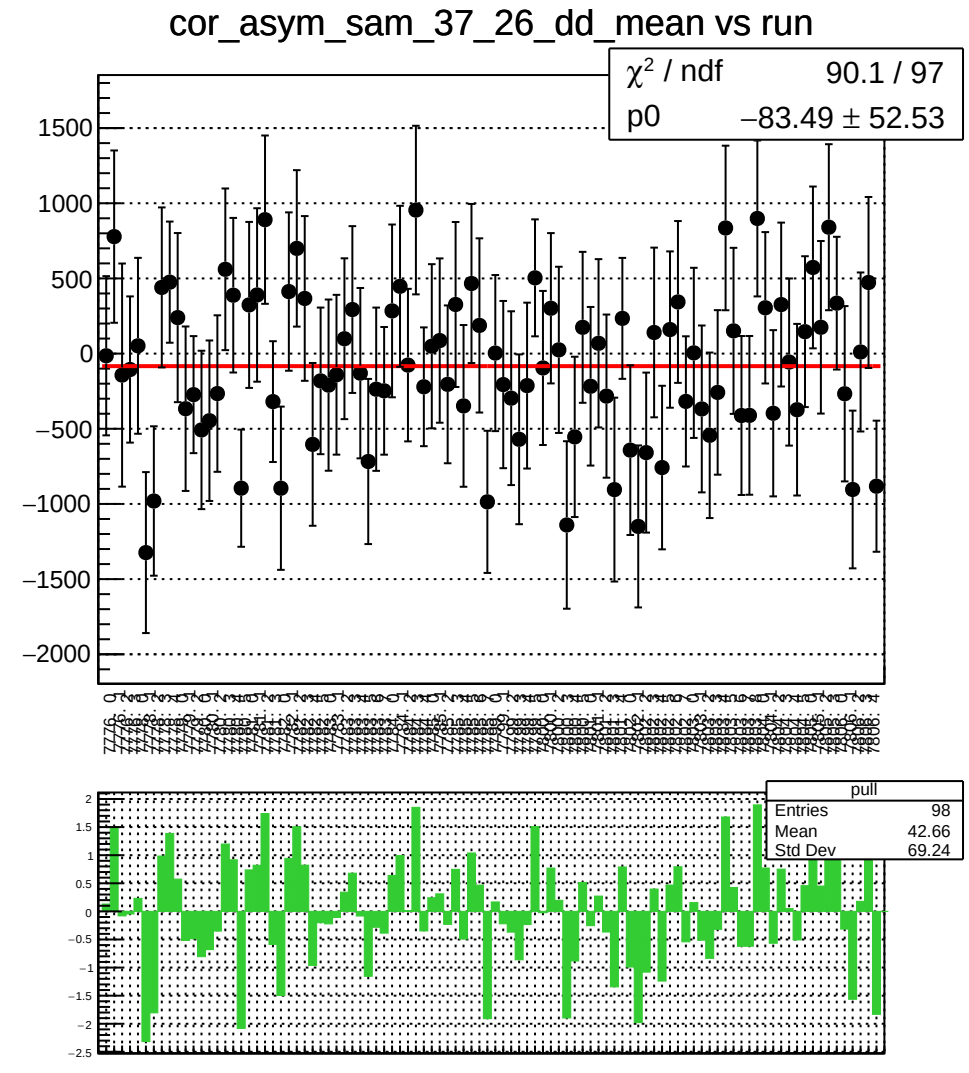

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.1 / 97
p0 −83.51 ± 52.53
pull
Entries 98
Mean 42.72
Std Dev 69.24

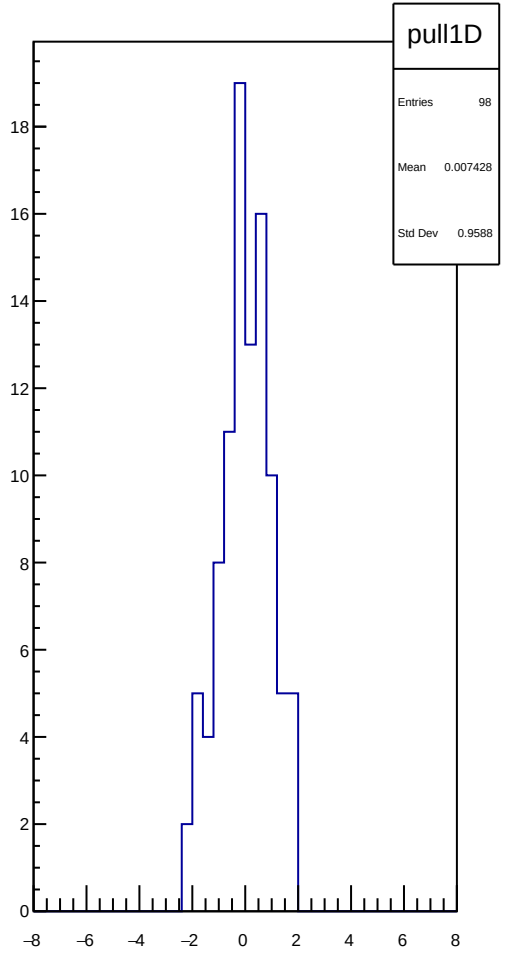

pull1D
Entries 98
Mean 0.007426
Std Dev 0.9588

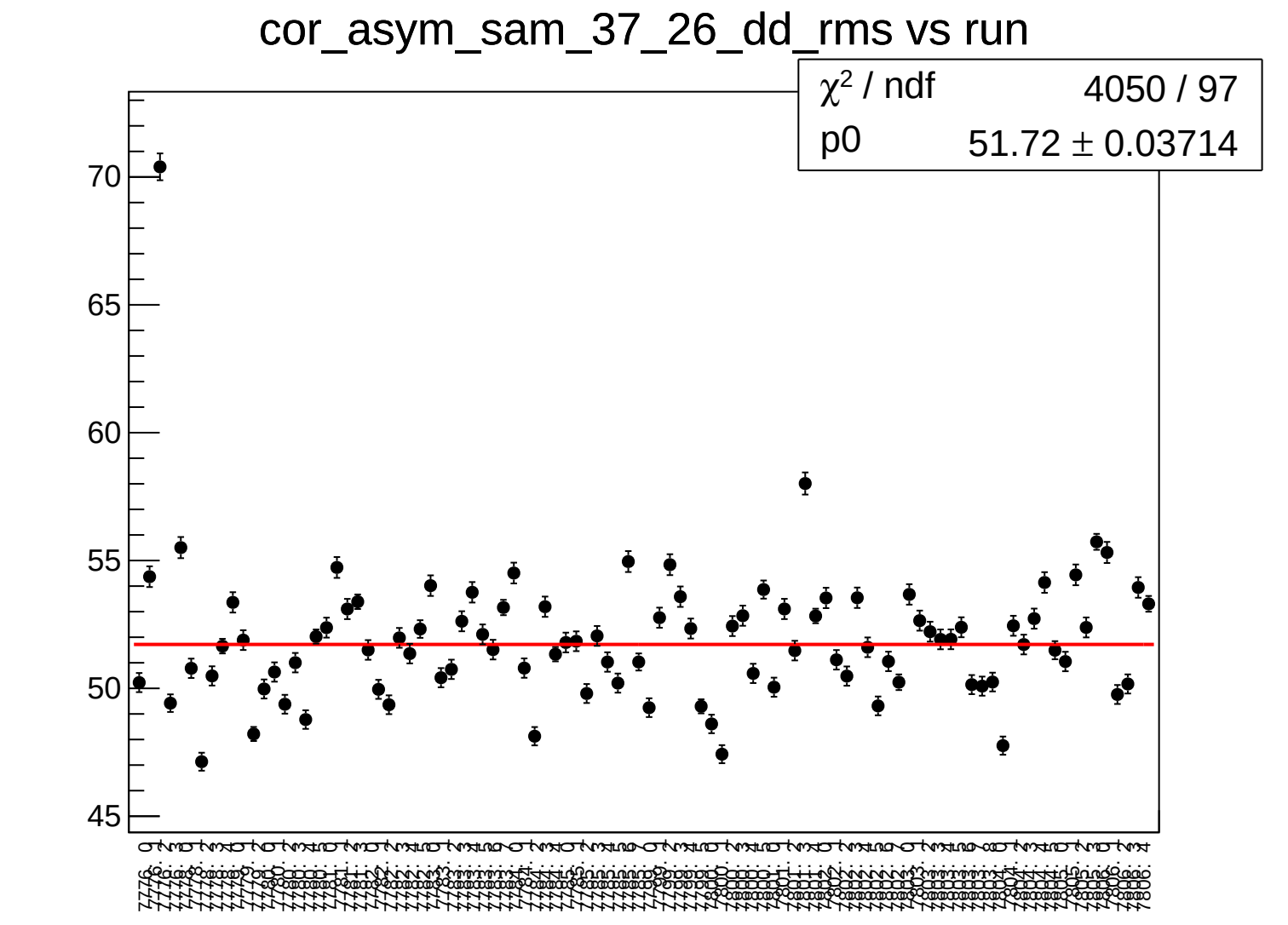

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 4050 / 97
p0 51.72 ± 0.03714
70
65
60
55
50
45

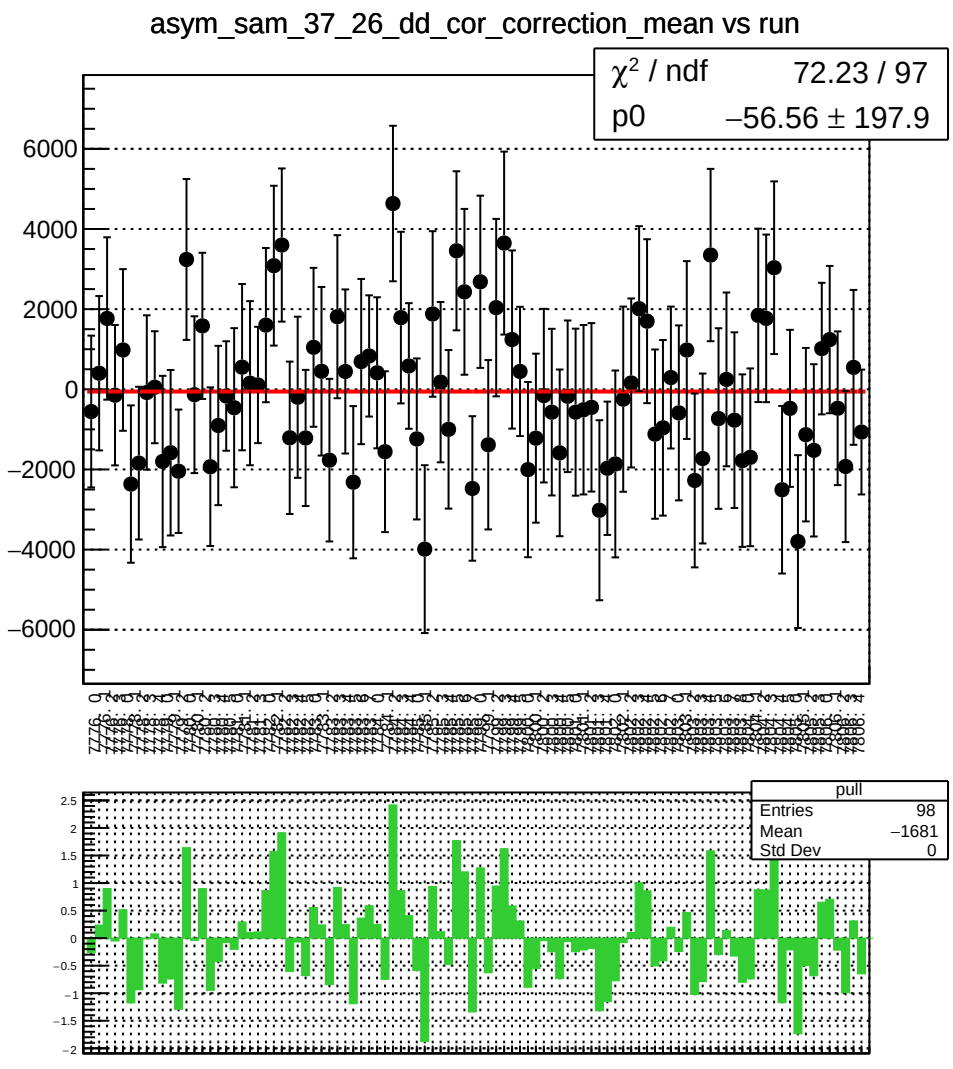

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 72.23 / 97
p0 −56.57 ± 197.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean −1682
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.001265
Std Dev 0.8585
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

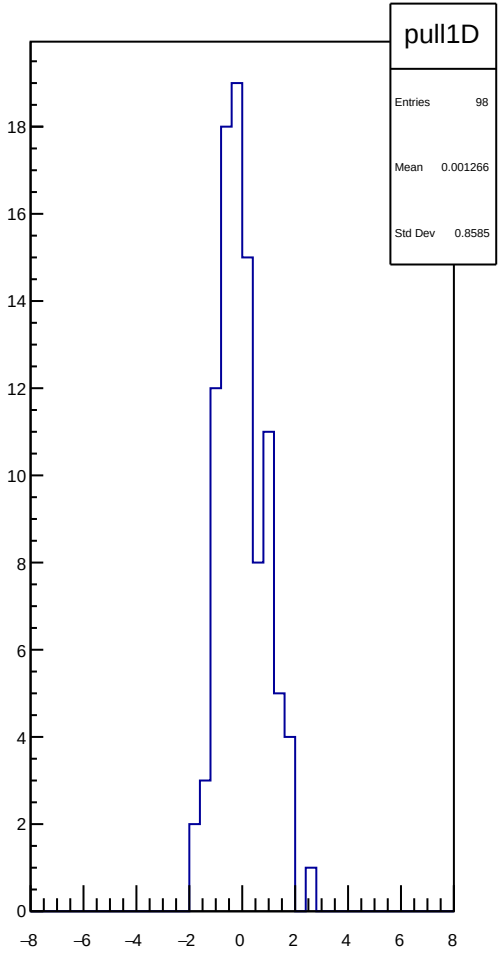

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 6014 / 97
p0 194.8 ± 0.14
220
210
200
190
180
170

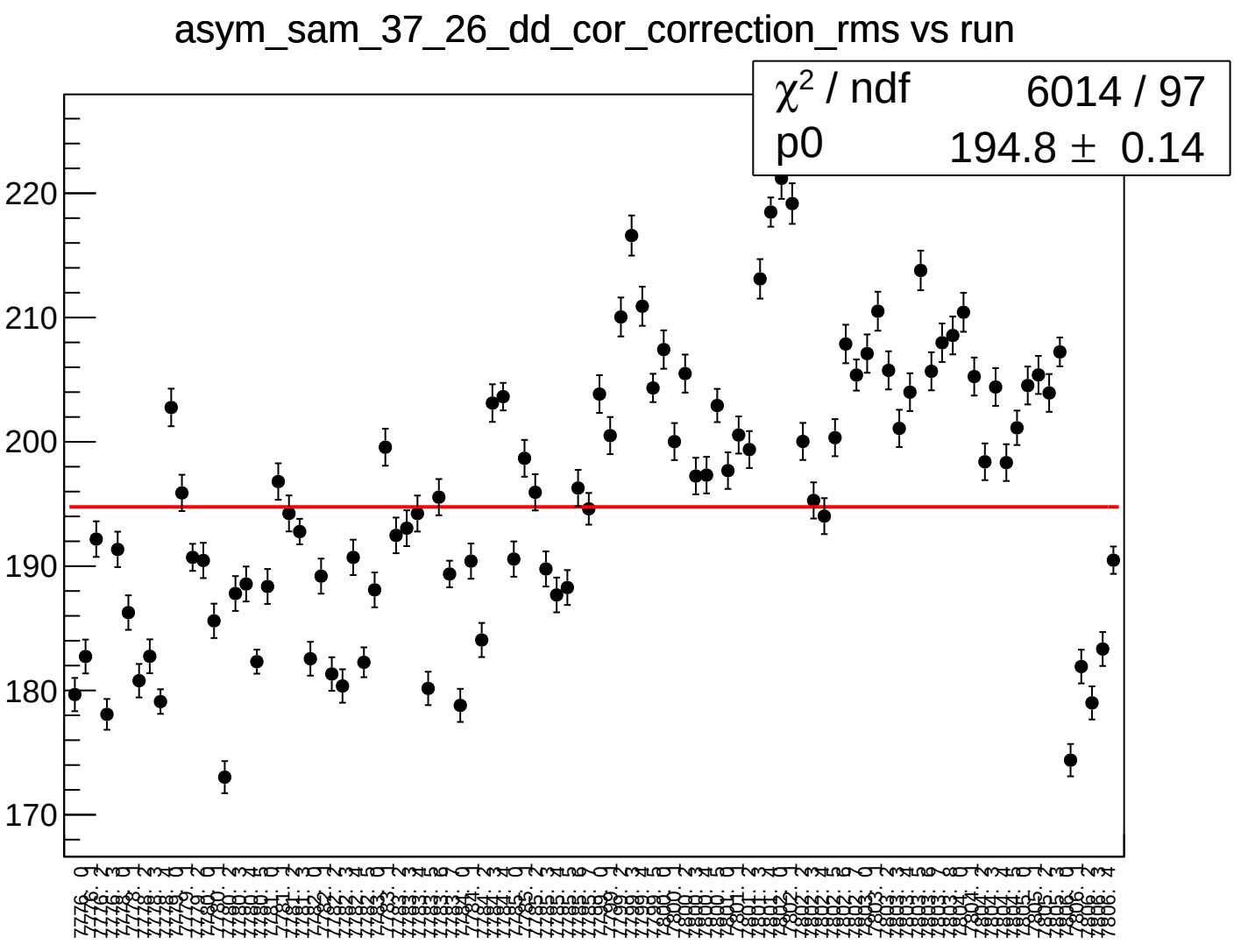

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.1 / 97
p0 −83.49 ± 52.53
pull
Entries 98
Mean 42.66
Std Dev 69.24

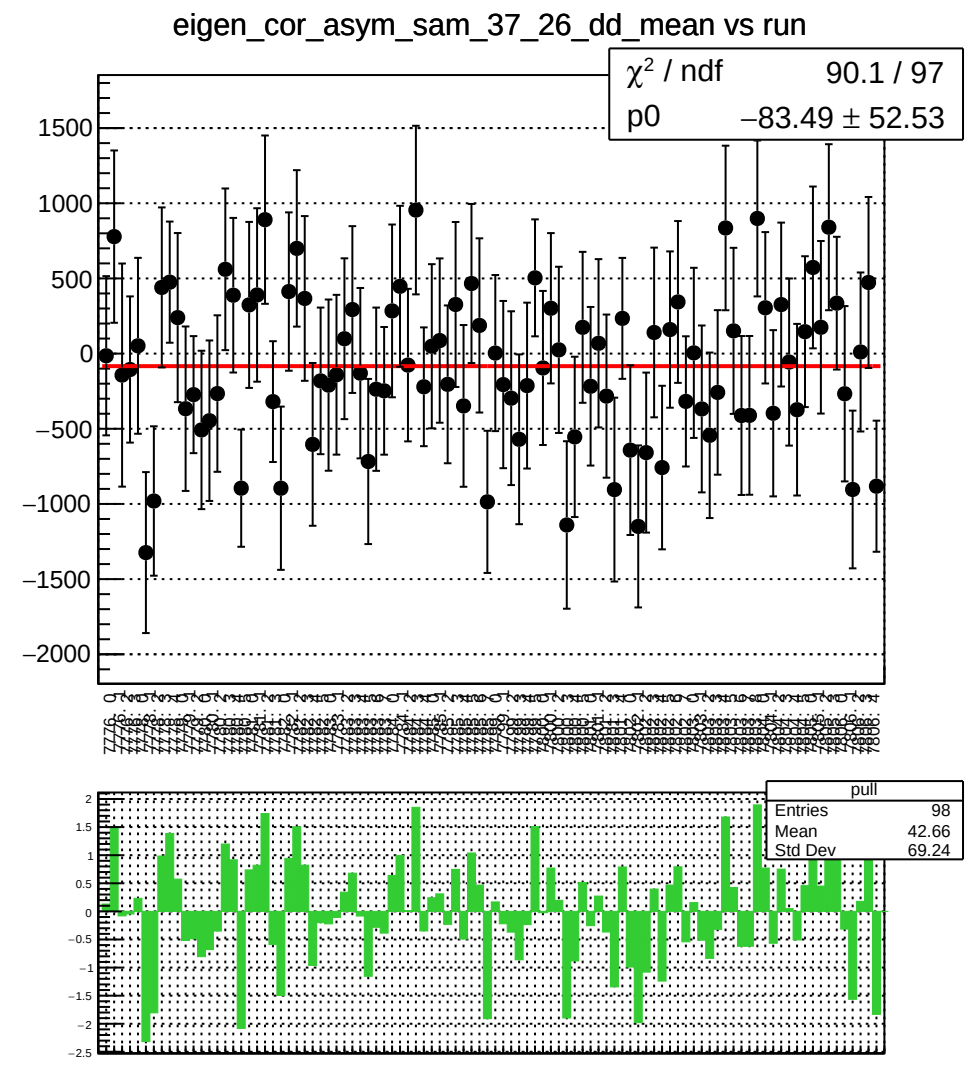

pull1D
Entries 98
Mean 0.007428
Std Dev 0.9588

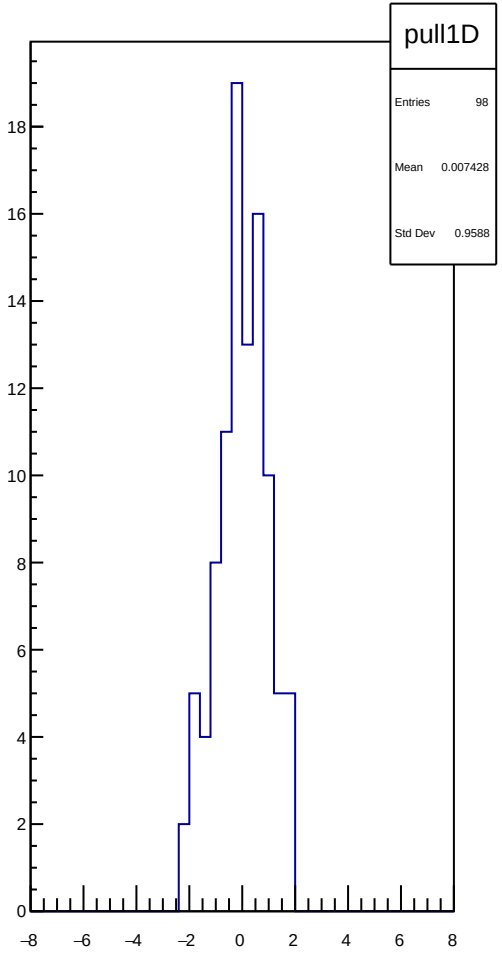

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 4050 / 97
p0 51.72 ± 0.03714
70
65
60
55
50
45

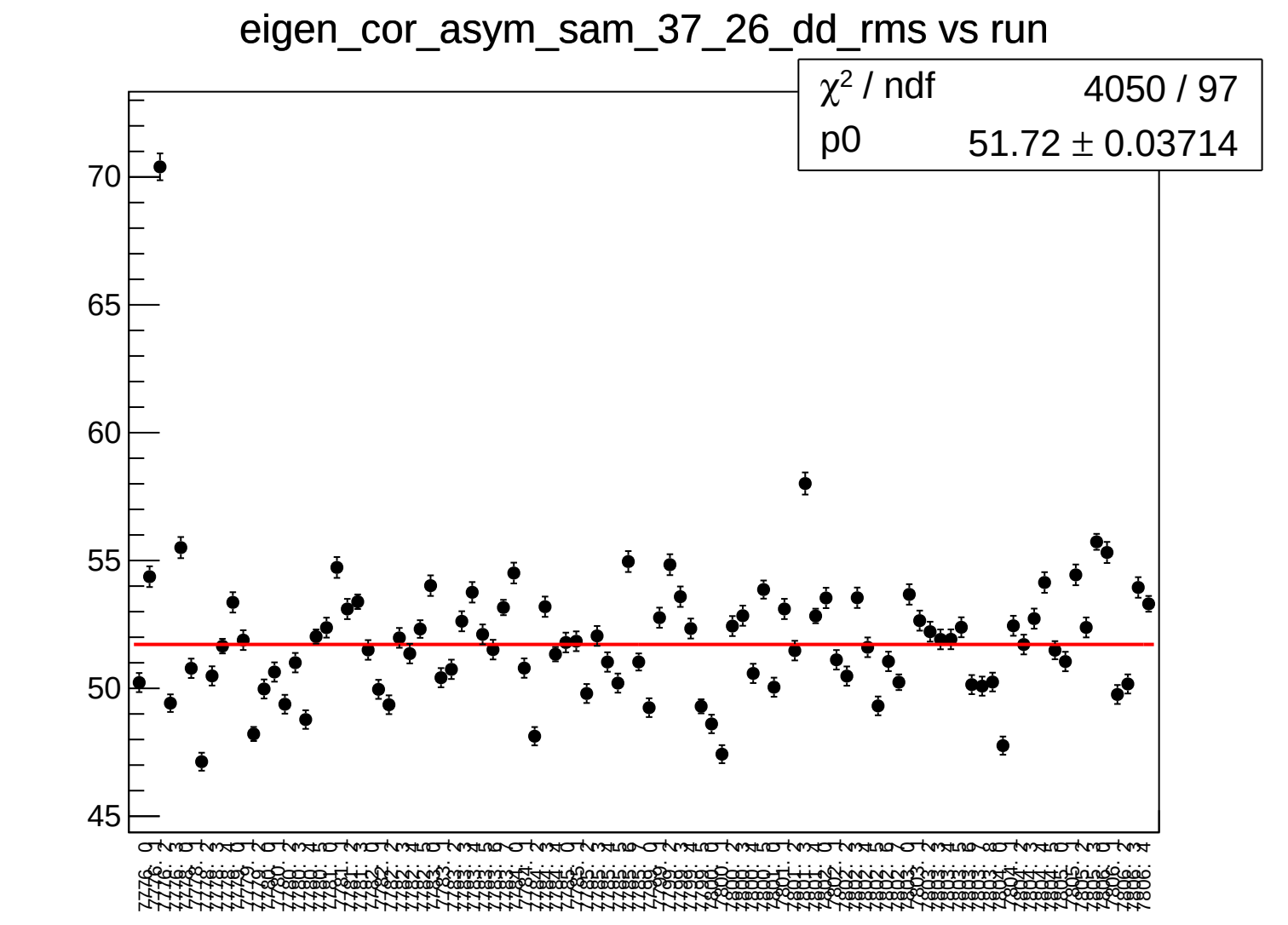

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 72.23 / 97
p0 −56.56 ± 197.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean −1681
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

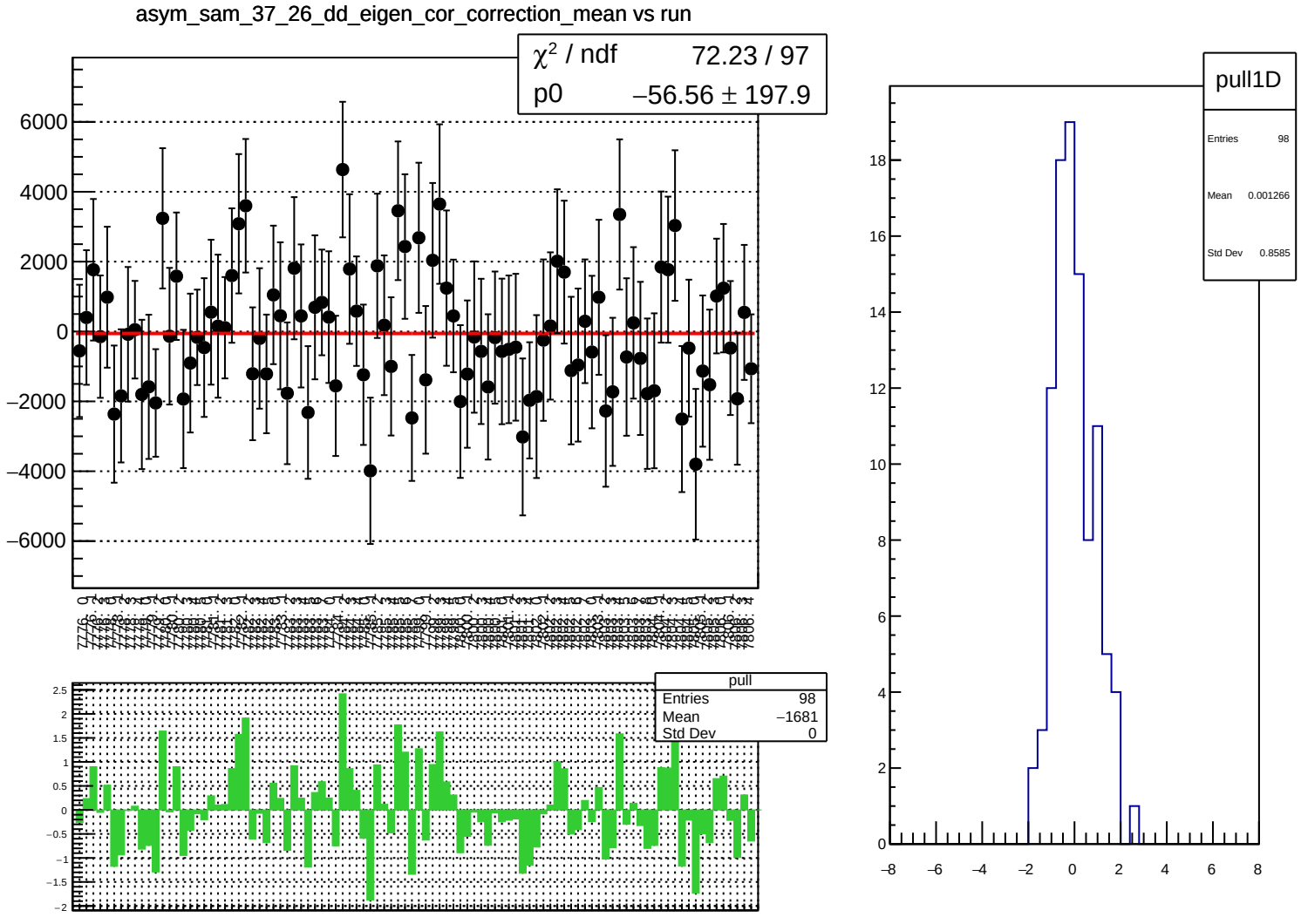

pull1D
Entries 98
Mean 0.001266
Std Dev 0.8585
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

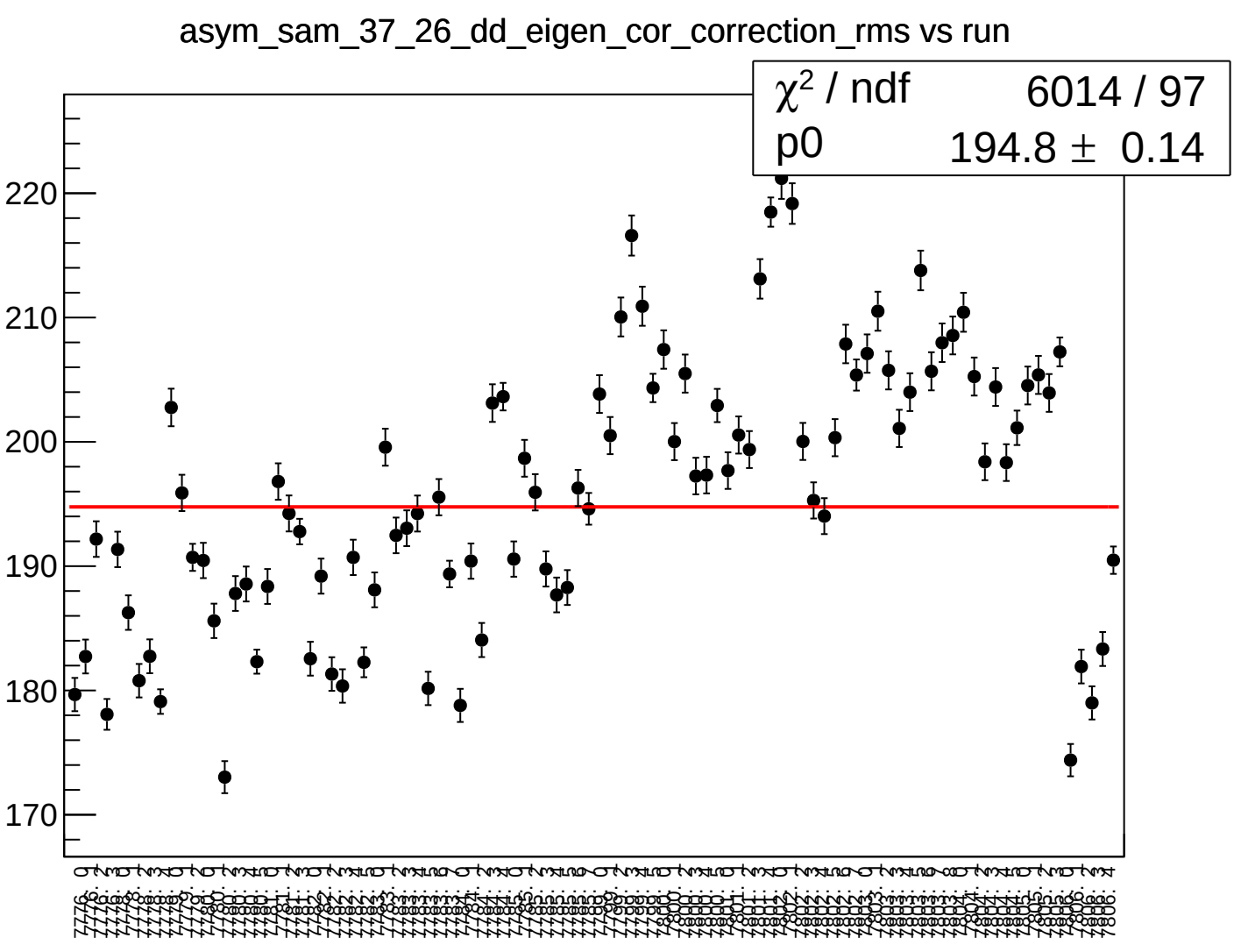

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 6014 / 97
p0 194.8 ± 0.14
220
210
200
190
180
170

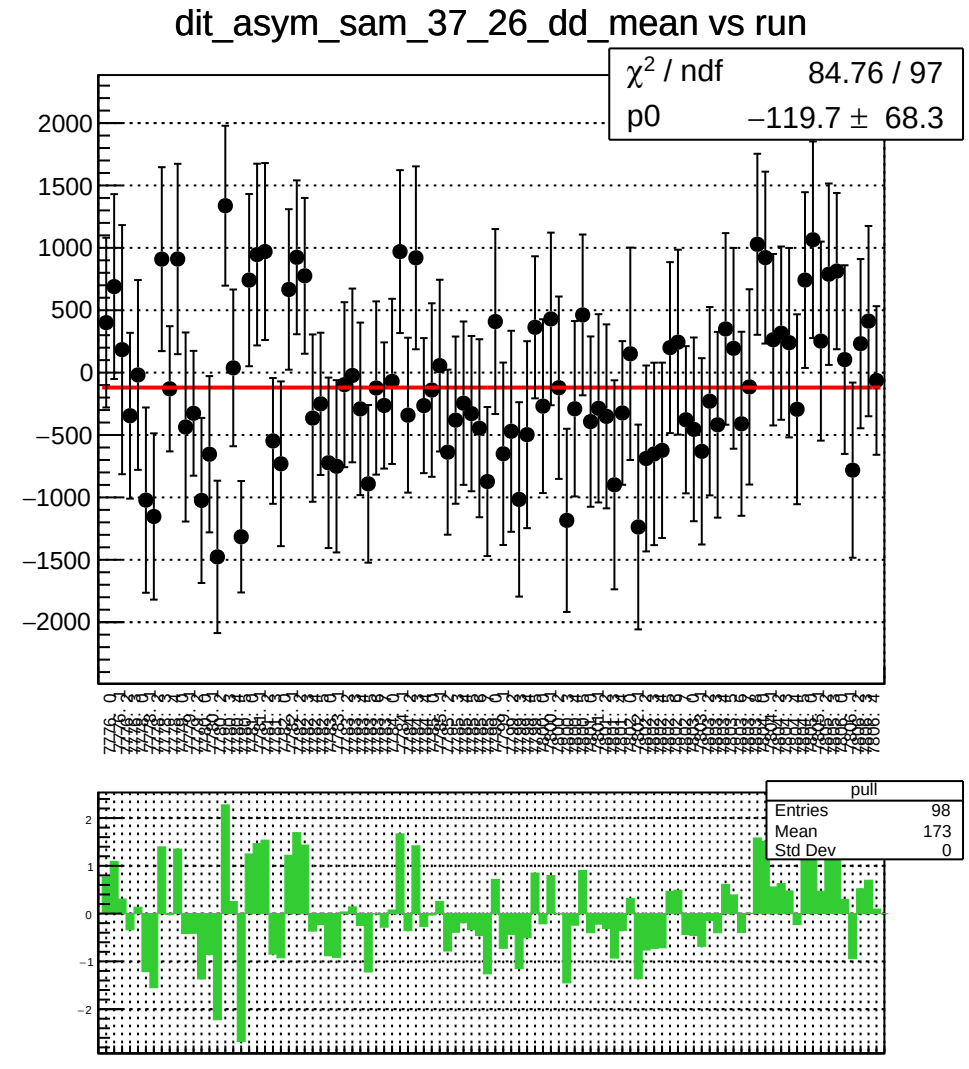

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.1 / 97
p0 −83.49 ± 52.53
pull
Entries 98
Mean 42.66
Std Dev 69.24

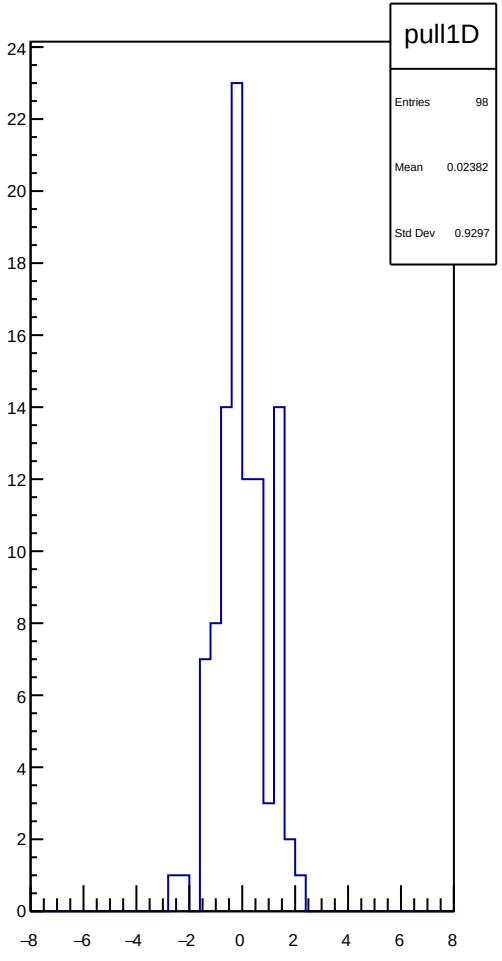

pull1D
Entries 98
Mean 0.007428
Std Dev 0.9588

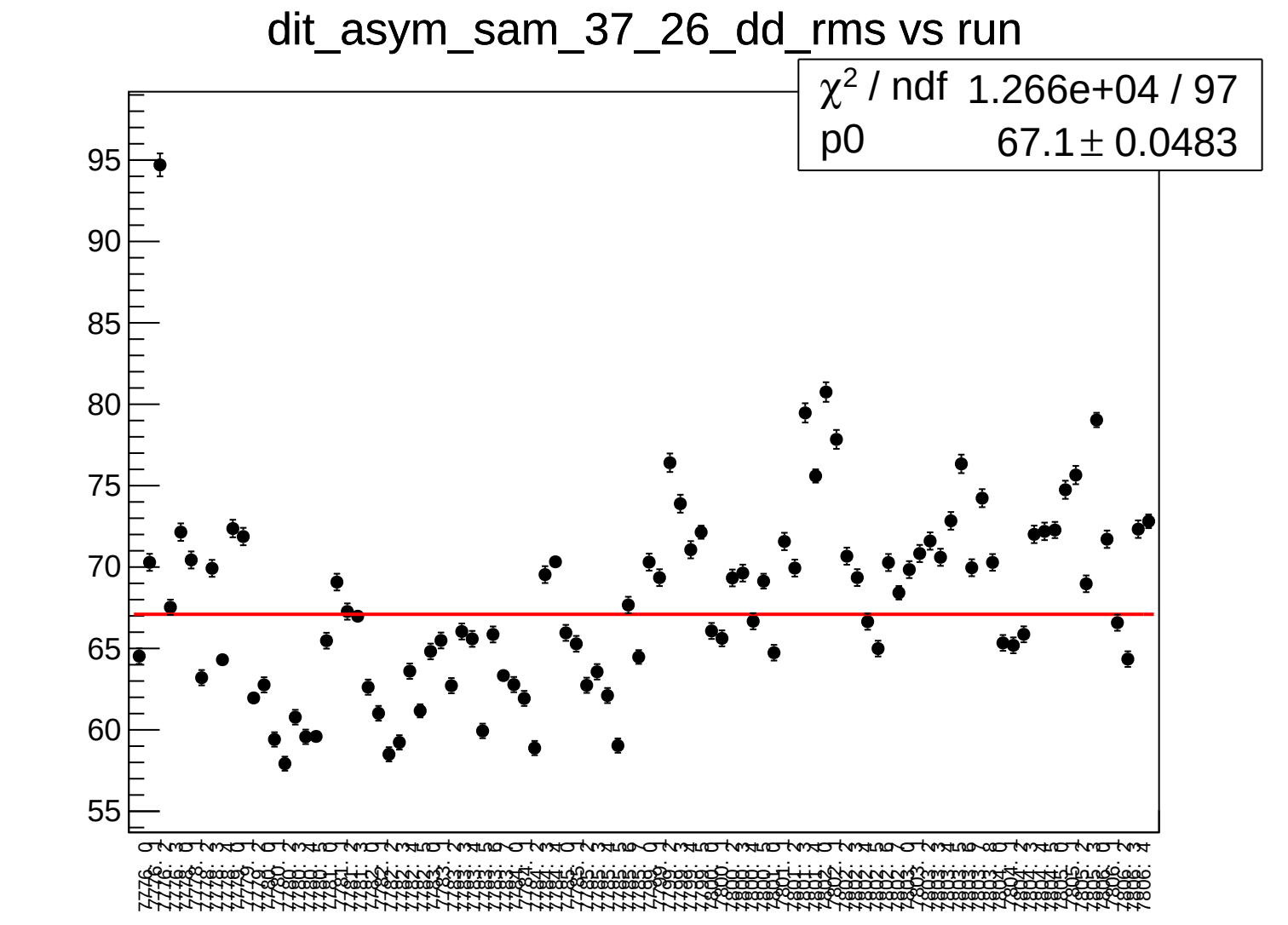

eigen_cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 4050 / 97
p0 51.72 ± 0.03714
70
65
60
55
50
45

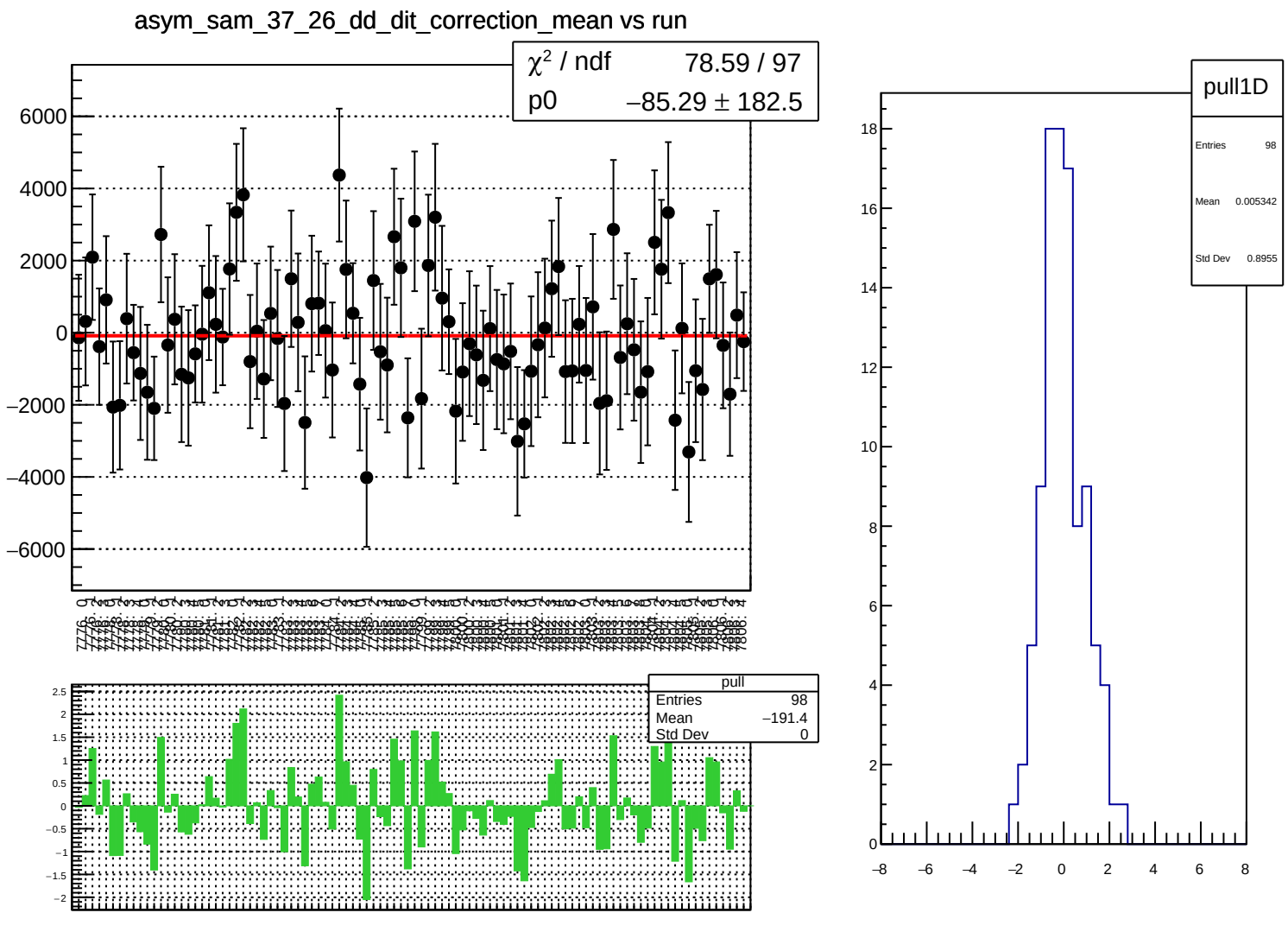

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.23 / 97
p0 −56.56 ± 197.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean −1681
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.001266
Std Dev 0.8585
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

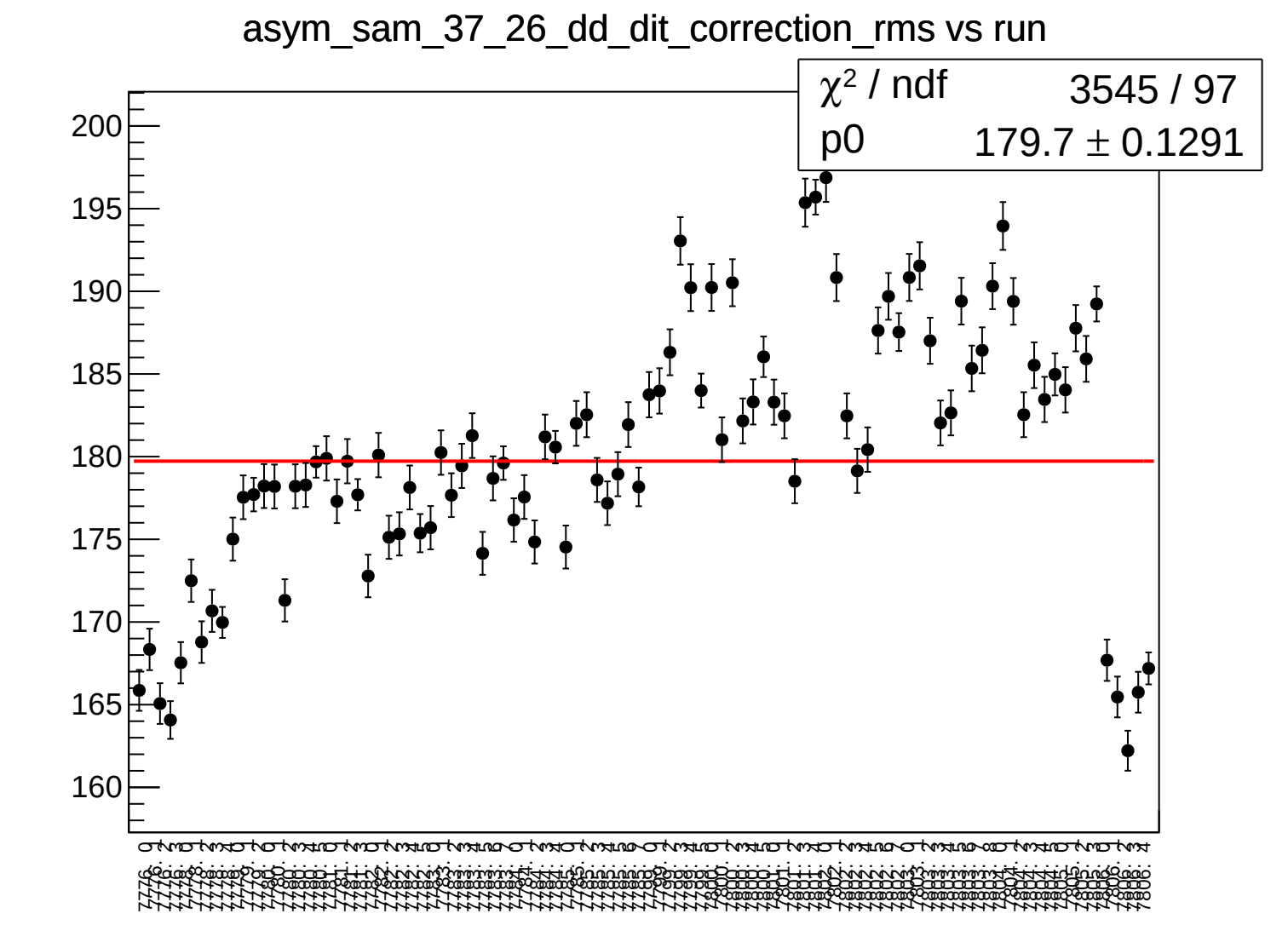

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6014 / 97
p0 194.8 ± 0.14
220
210
200
190
180
170

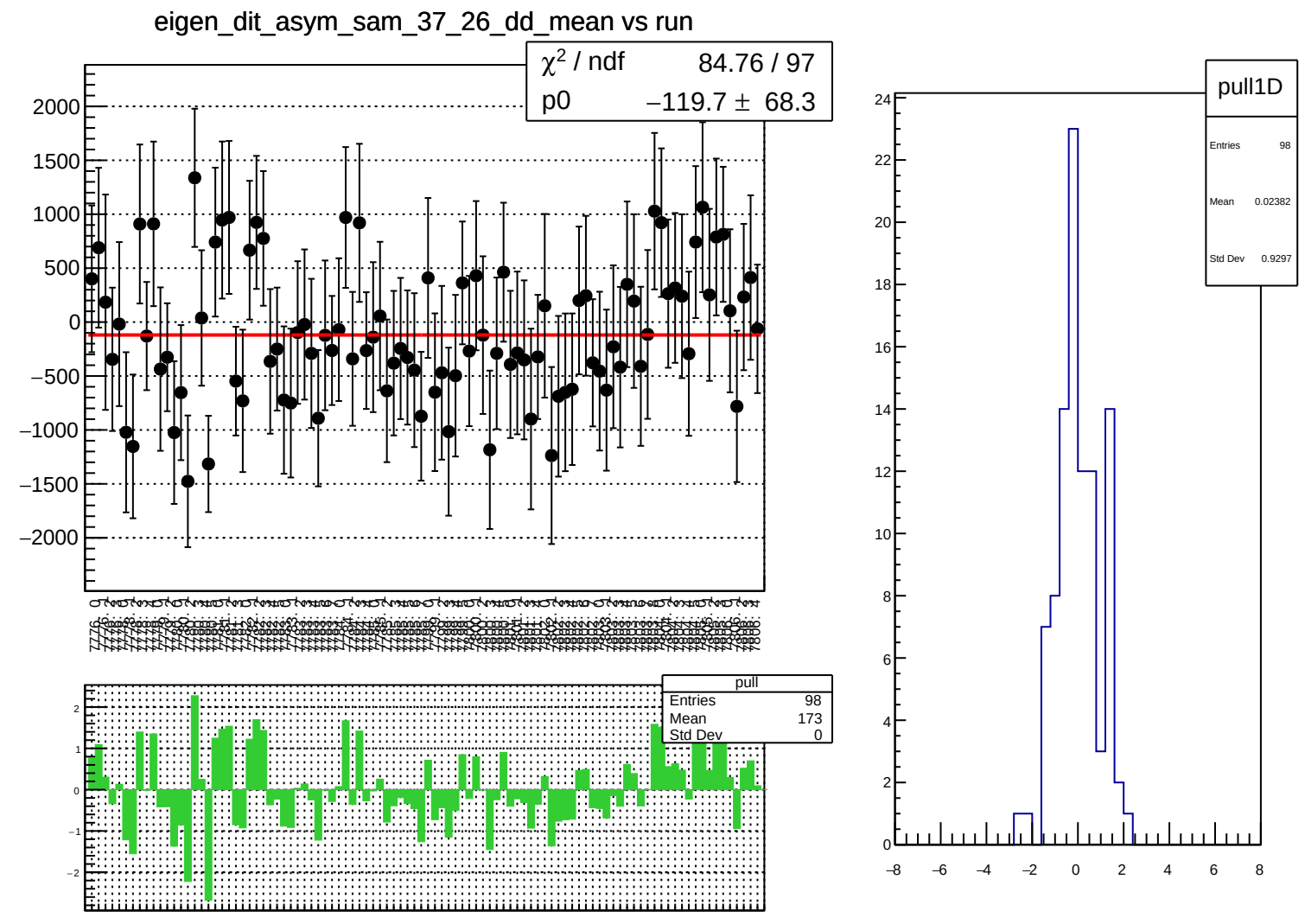

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 84.76 / 97
p0 −119.7 ± 68.3
pull
Entries 98
Mean 173
Std Dev 0

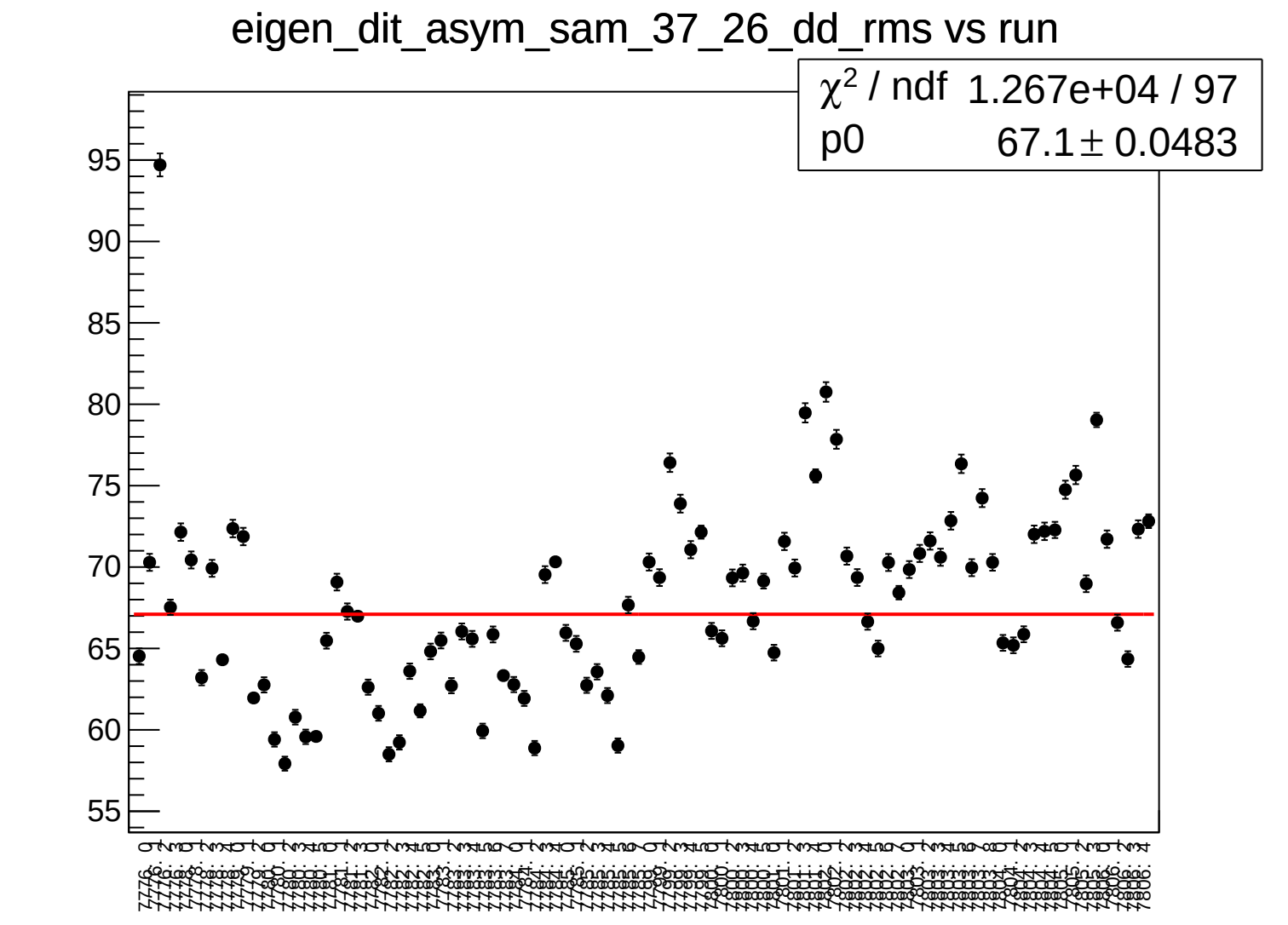

pull1D
Entries 98
Mean 0.02382
Std Dev 0.9297

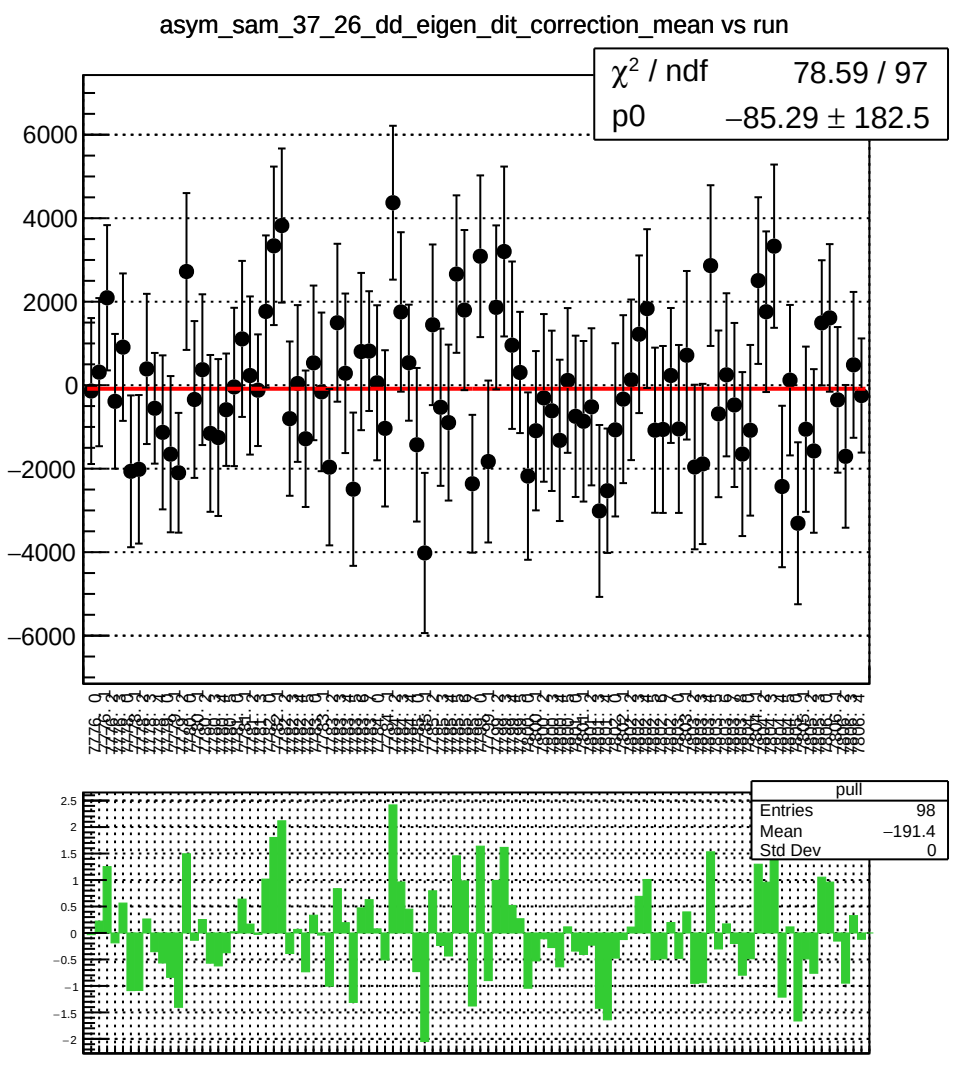

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.266e+04 / 97
p0 67.1 ± 0.0483
95
90
85
80
75
70
65
60
55

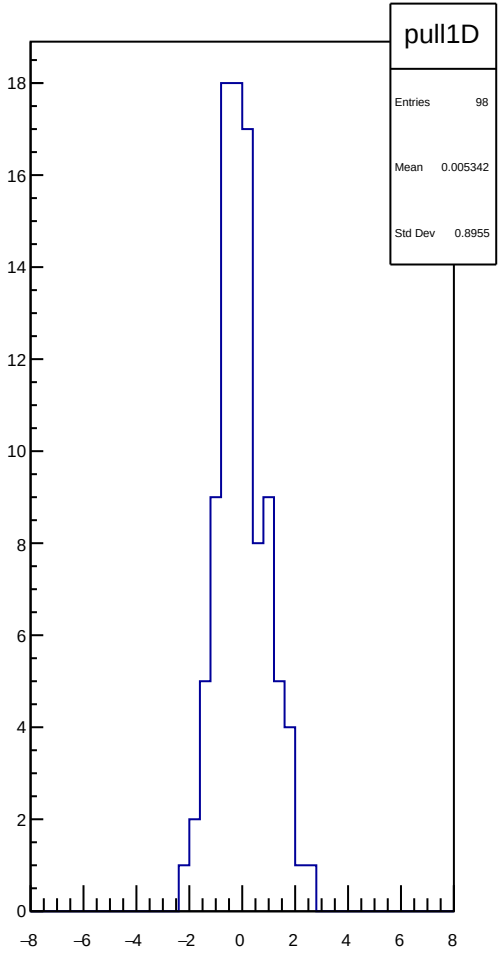

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 78.59 / 97
p0 −85.29 ± 182.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean −191.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.005342
Std Dev 0.8955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

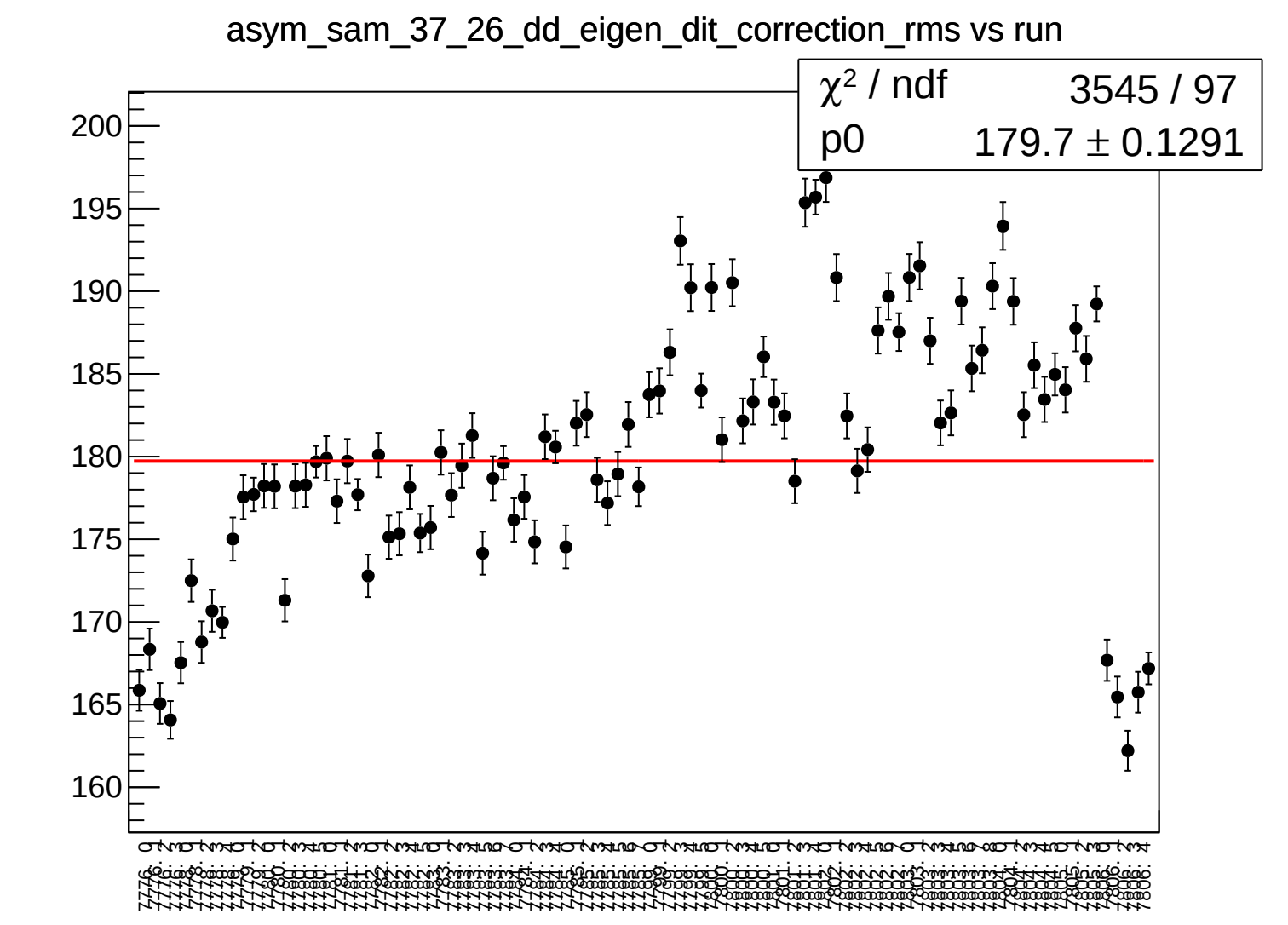

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 3545 / 97
p0 179.7 ± 0.1291
200
195
190
185
180
175
170
165
160

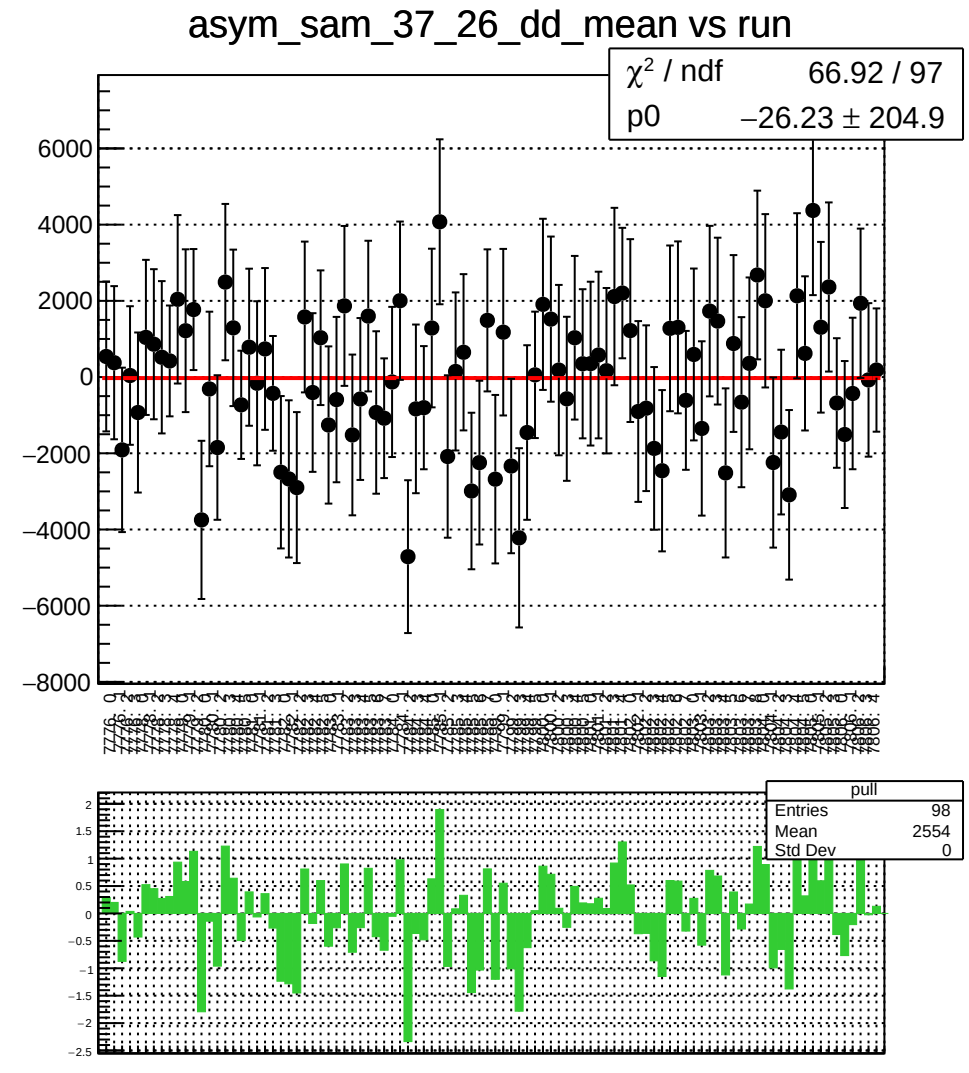

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 84.76 / 97
p0 −119.7 ± 68.3
pull
Entries 98
Mean 173
Std Dev 0
pull1D
Entries 98
Mean 0.02382
Std Dev 0.9297

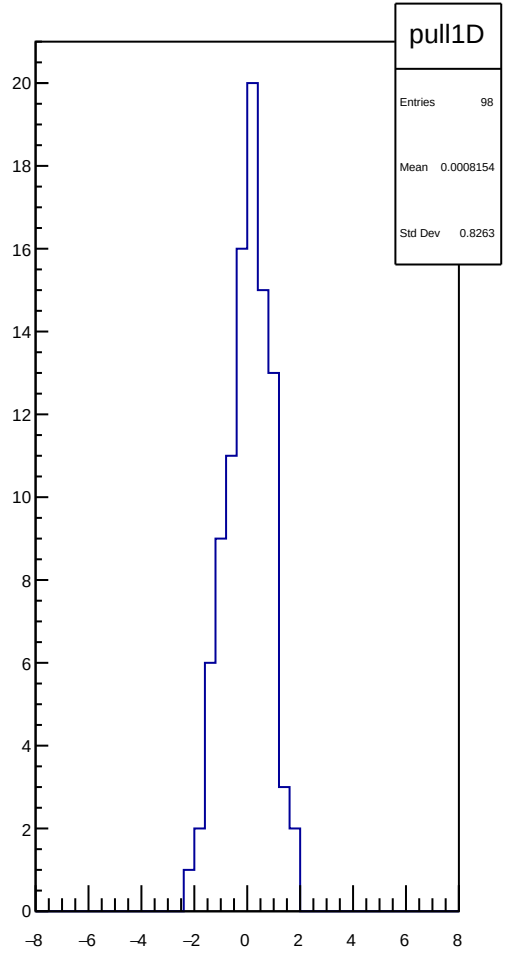

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.267e+04 / 97
p0 67.1 ± 0.0483
95
90
85
80
75
70
65
60
55

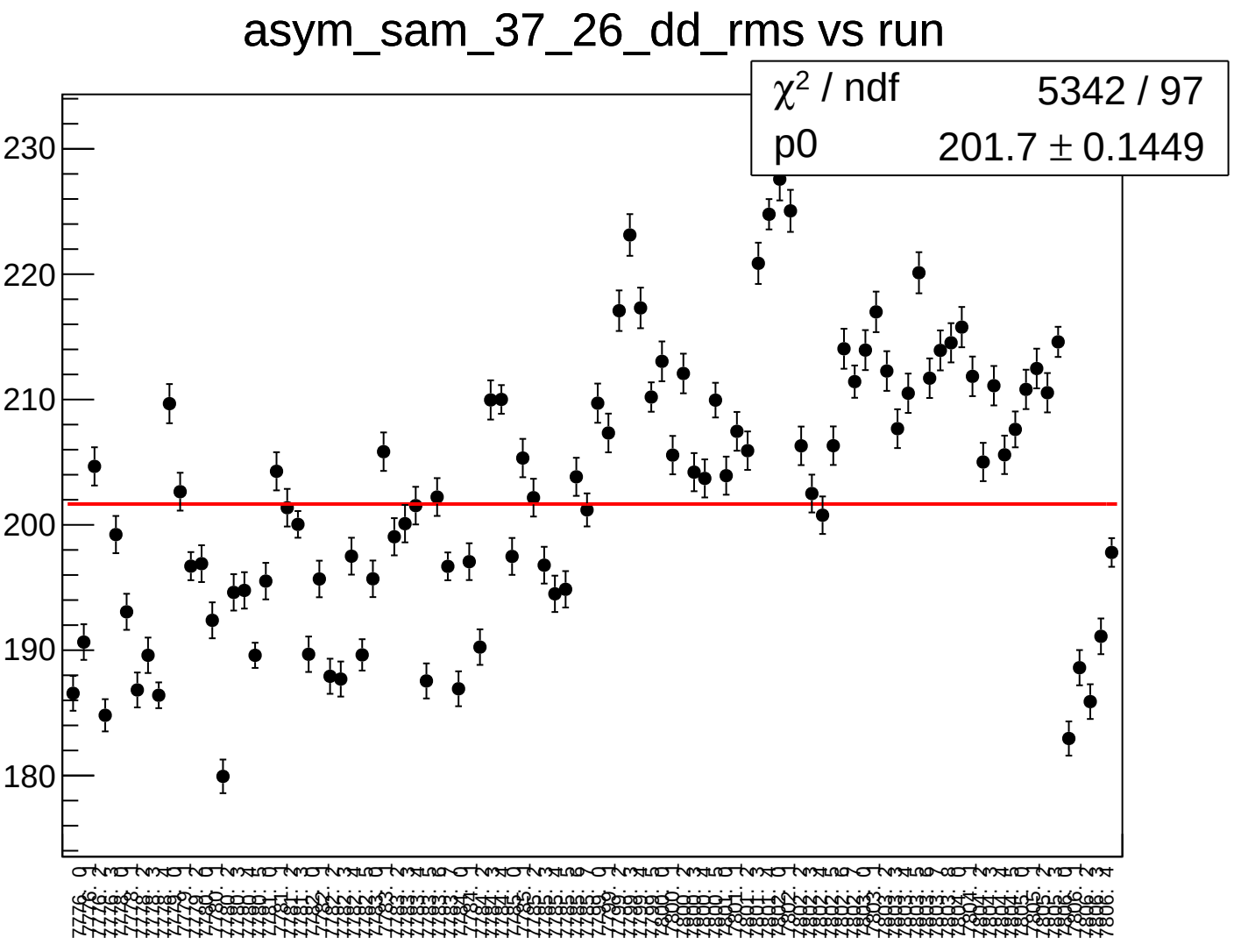

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.59 / 97
p0 −85.29 ± 182.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean −191.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

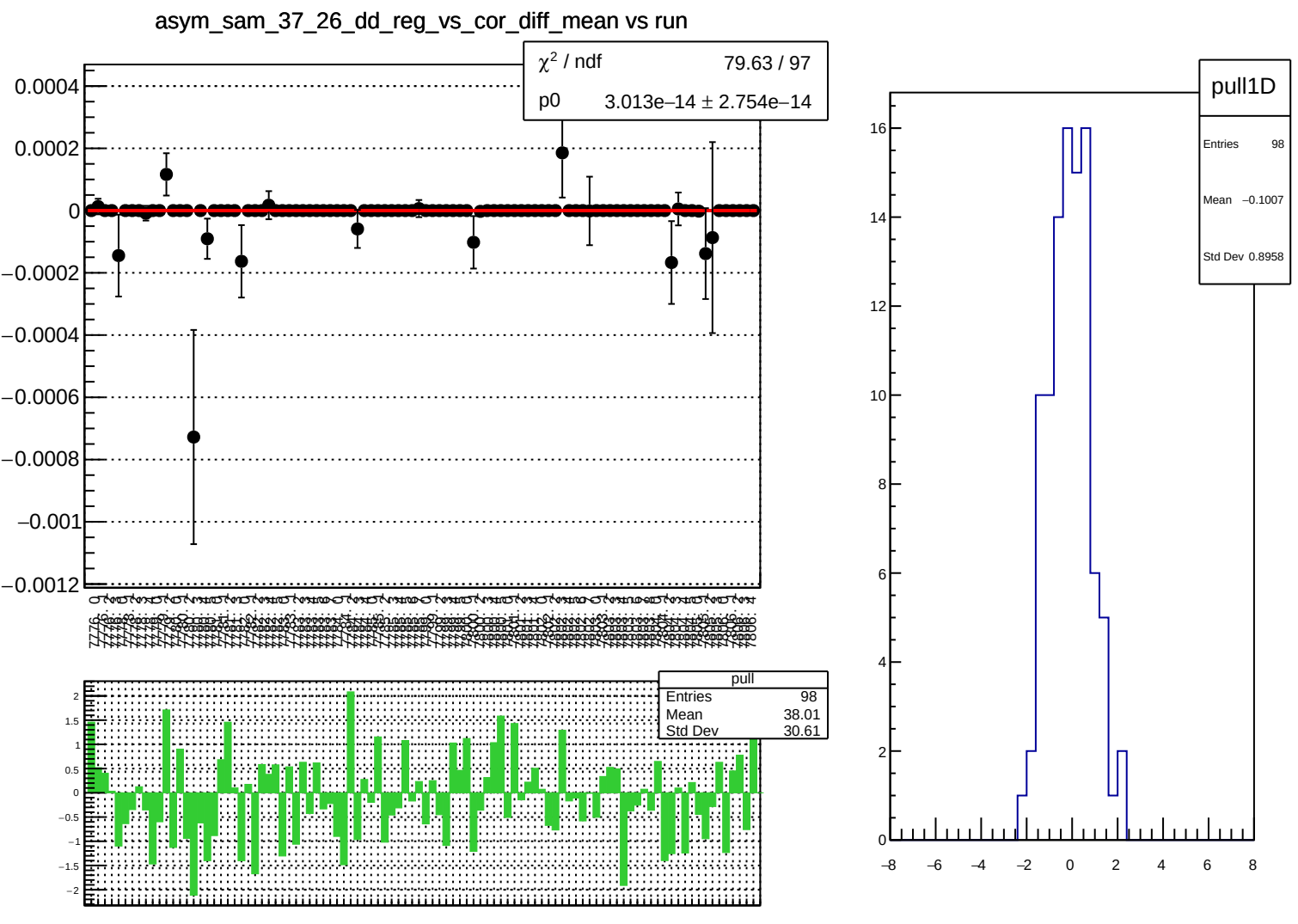

pull1D
Entries 98
Mean 0.005342
Std Dev 0.8955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

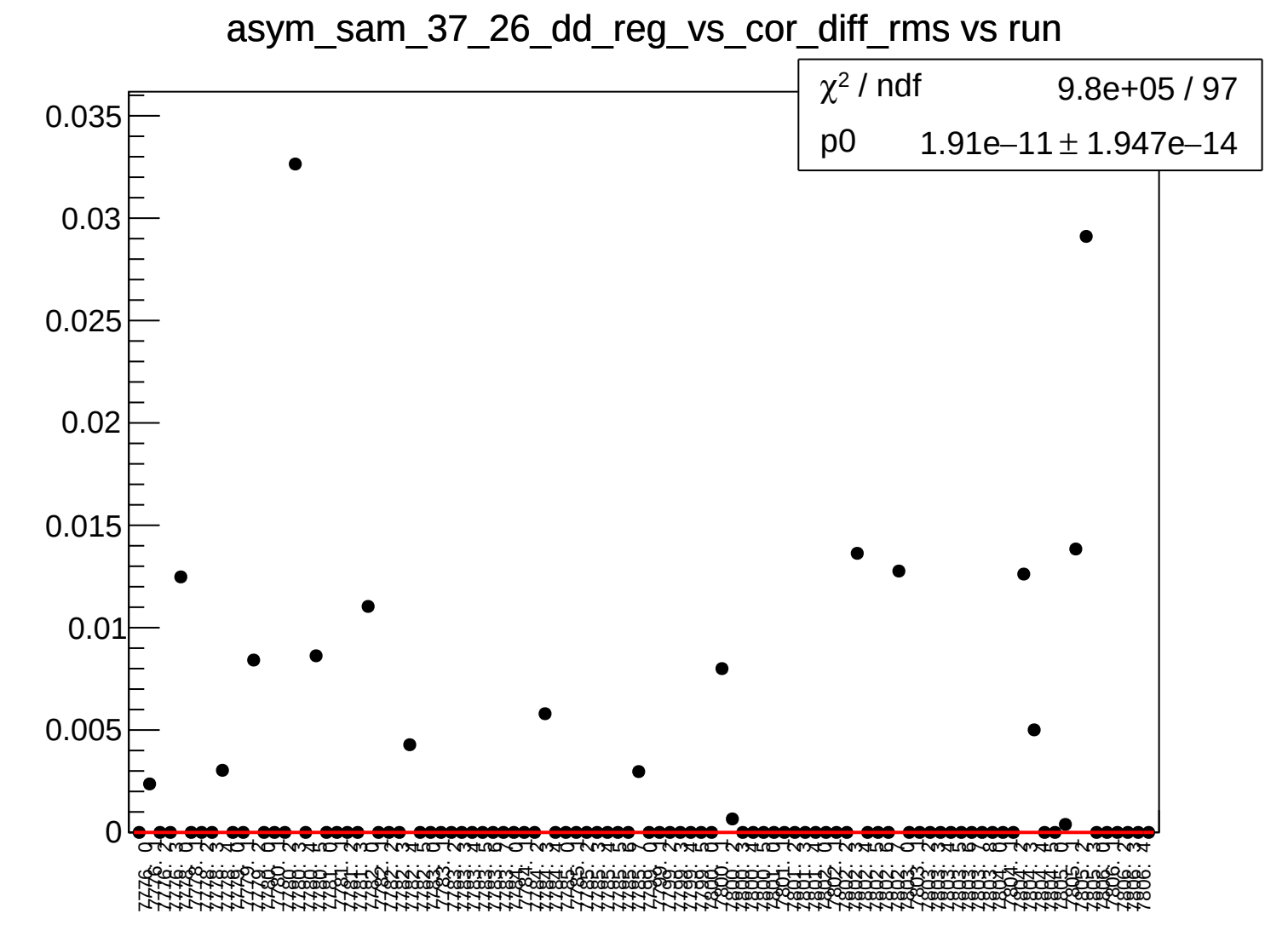

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3545 / 97
p0 179.7 ± 0.1291
200
195
190
185
180
175
170
165
160

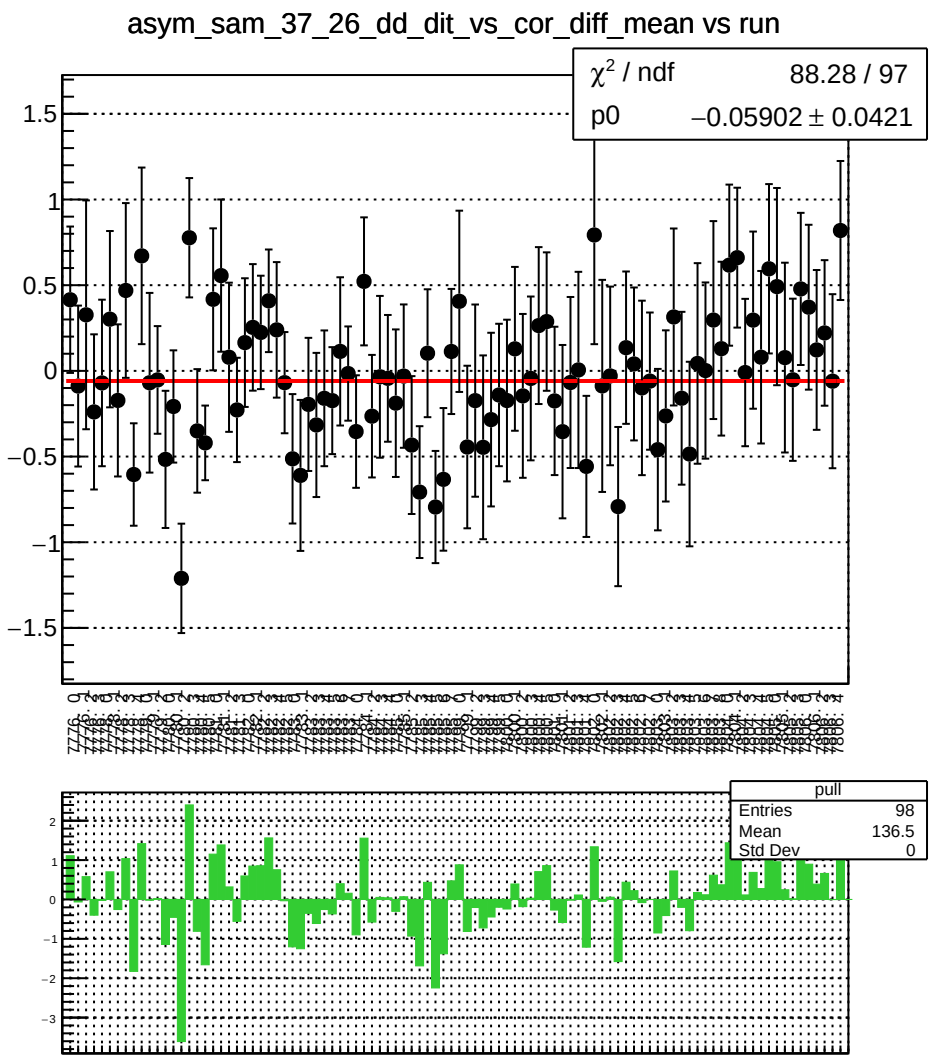

asym_sam_37_26_dd_mean vs run
χ² / ndf 66.92 / 97
p0 −26.23 ± 204.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 98
Mean 2554
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

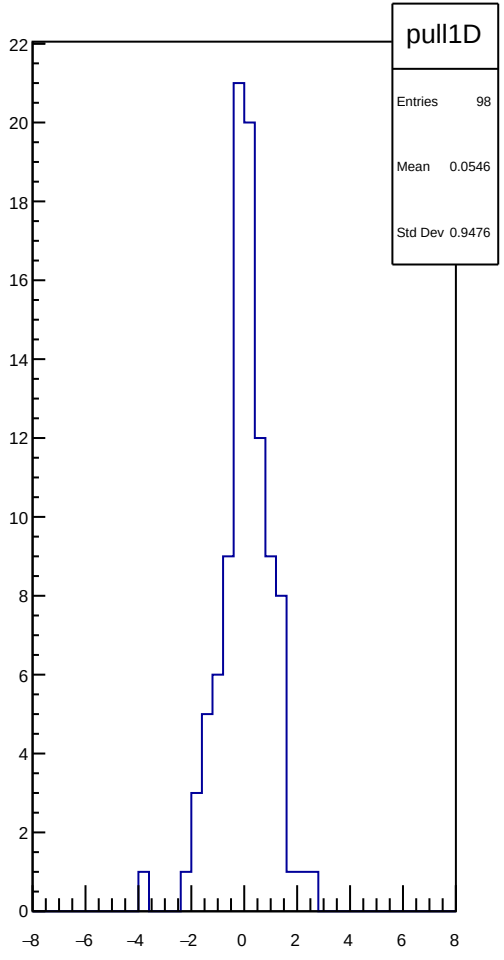

pull1D
Entries 98
Mean 0.0008154
Std Dev 0.8263
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

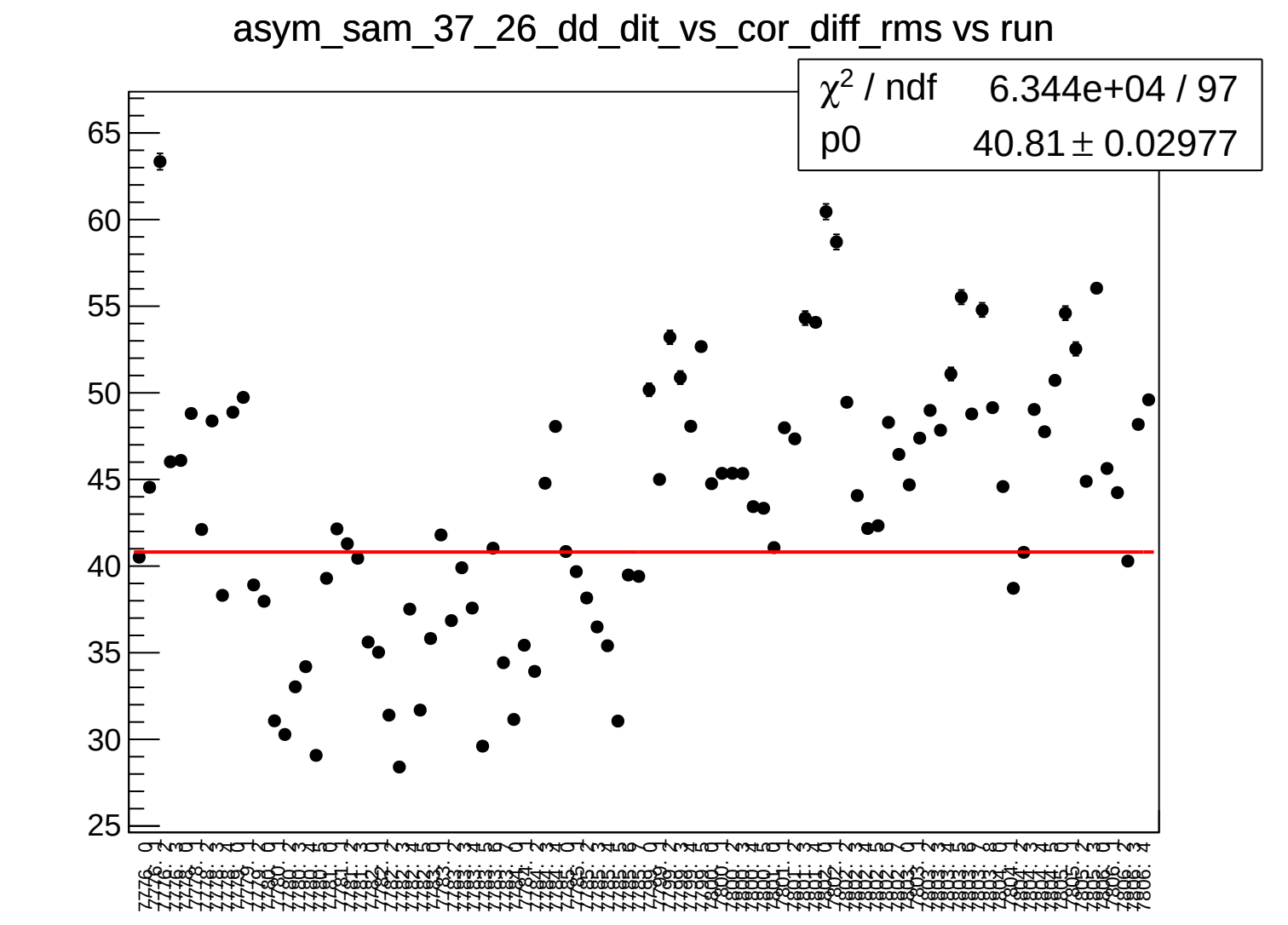

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 5342 / 97
p0 201.7 ± 0.1449
230
220
210
200
190
180

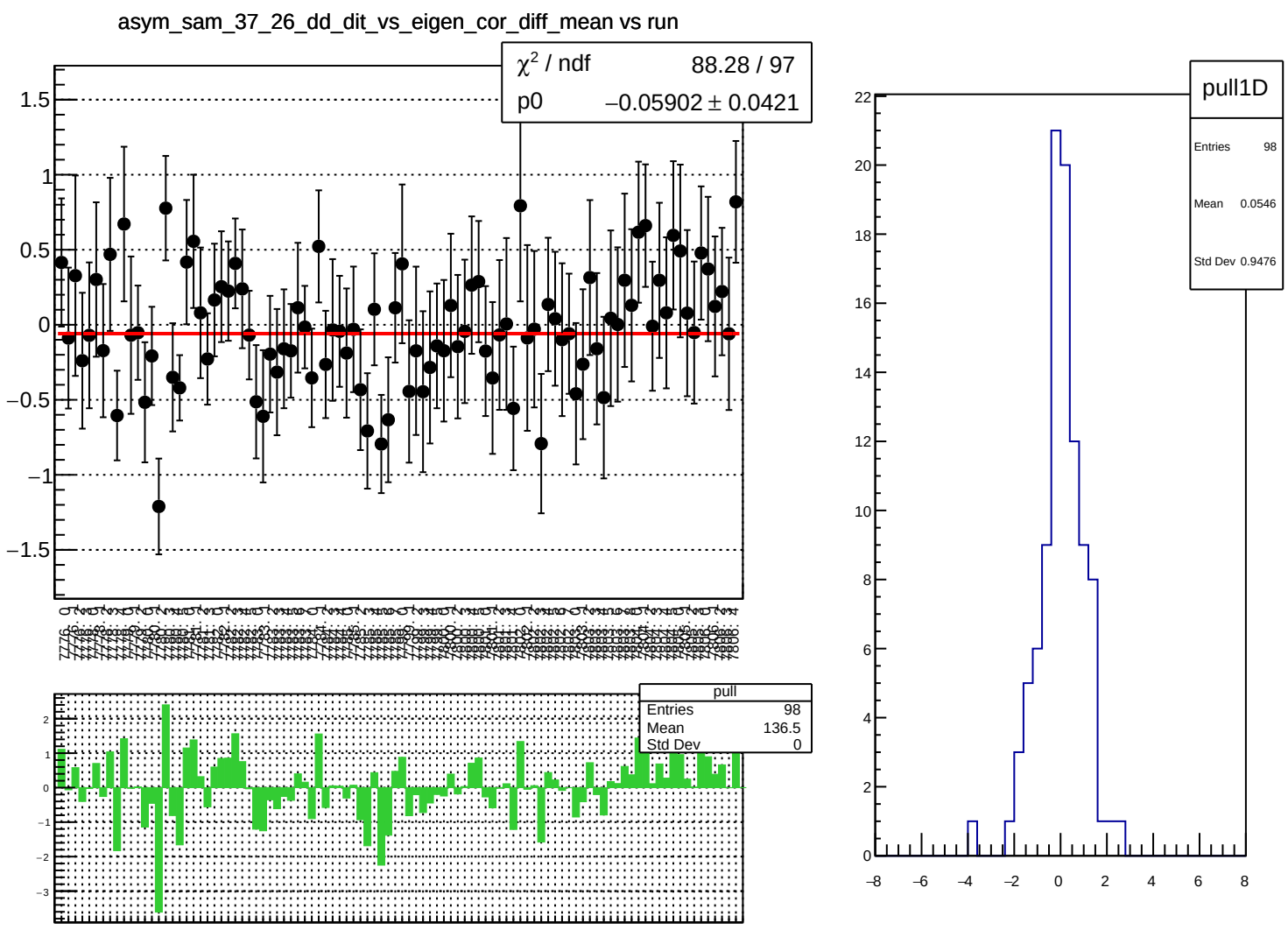

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.63 / 97
p0 3.013e−14 ± 2.754e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 98
Mean 38.01
Std Dev 30.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.1007
Std Dev 0.8958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

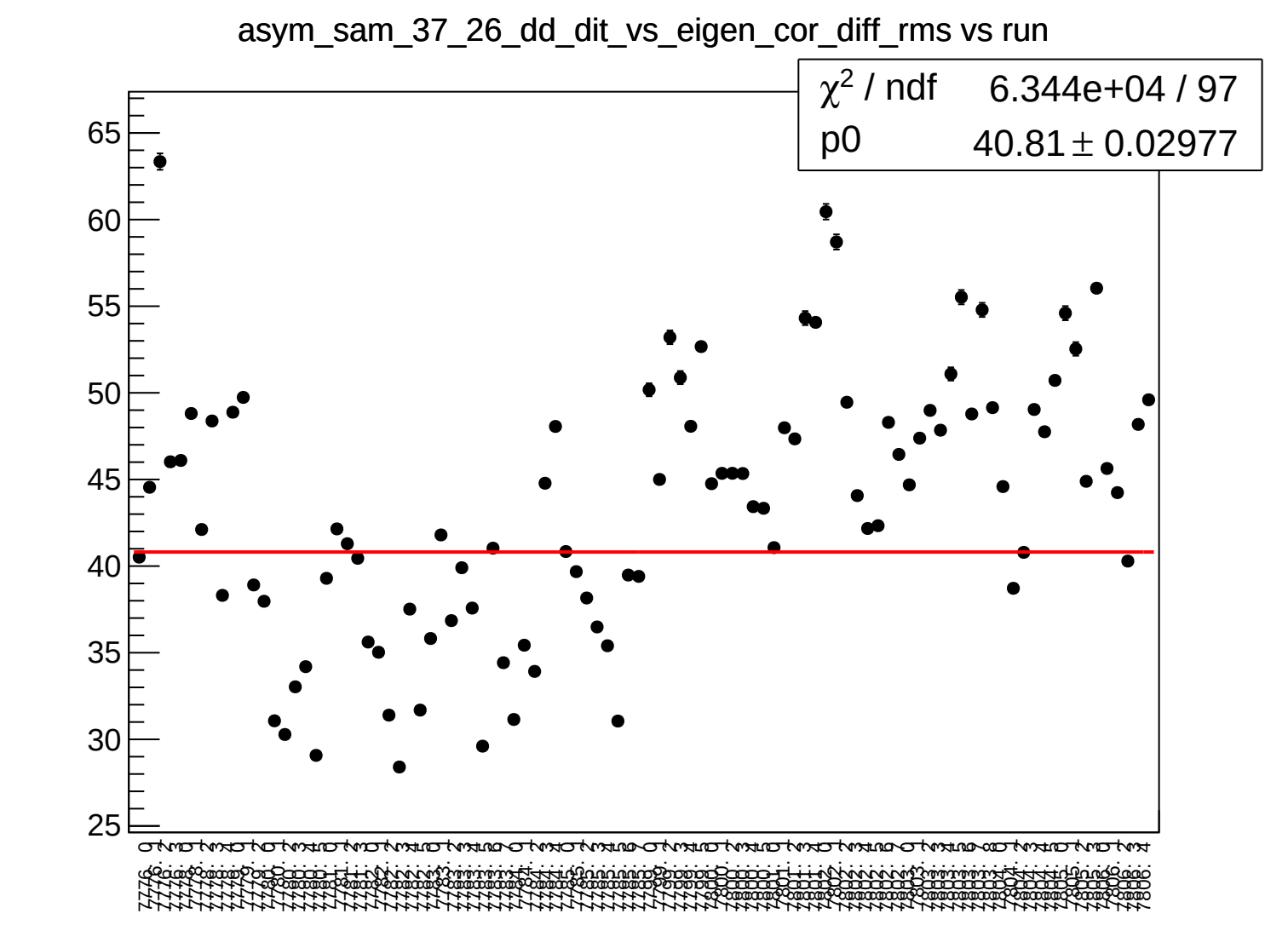

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.8e+05 / 97
p0 1.91e−11 ± 1.947e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

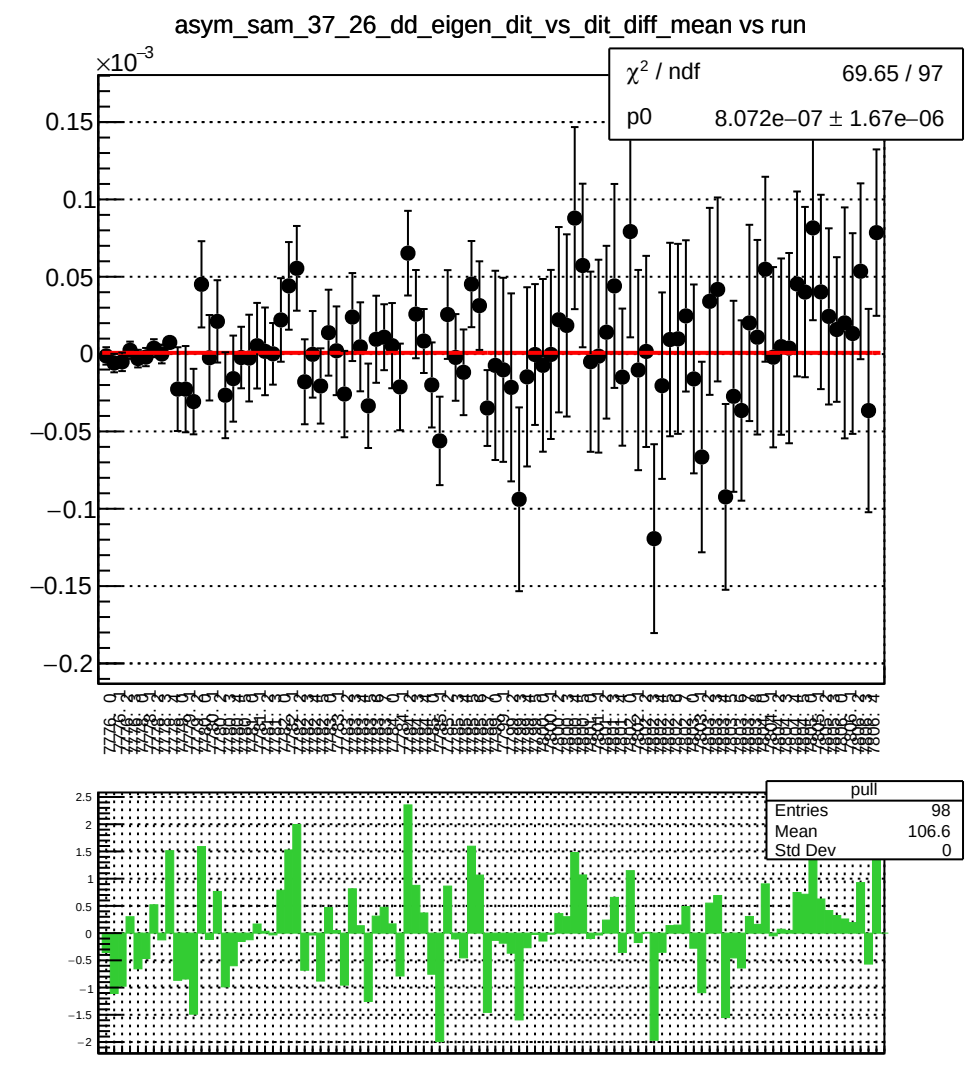

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.28 / 97
p0 −0.05902 ± 0.0421
pull
Entries 98
Mean 136.5
Std Dev 0

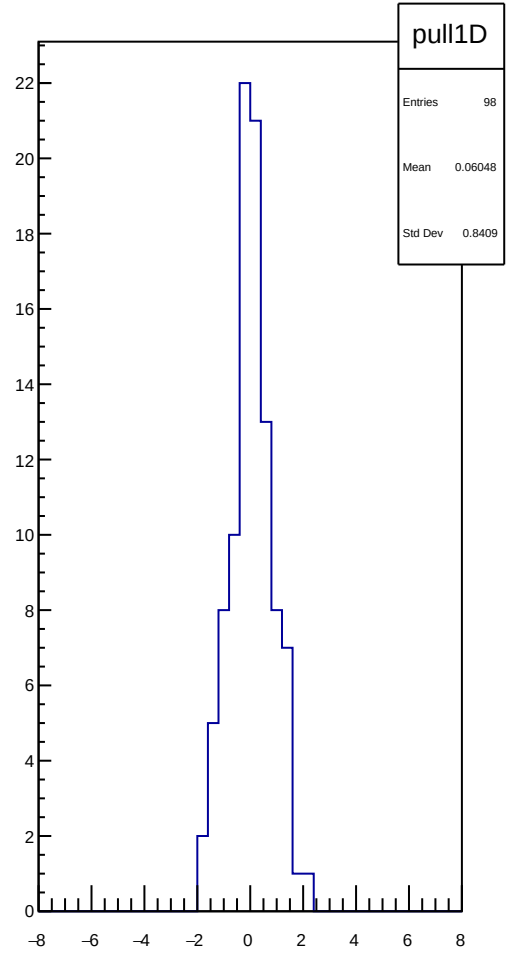

pull1D
Entries 98
Mean 0.0546
Std Dev 0.9476

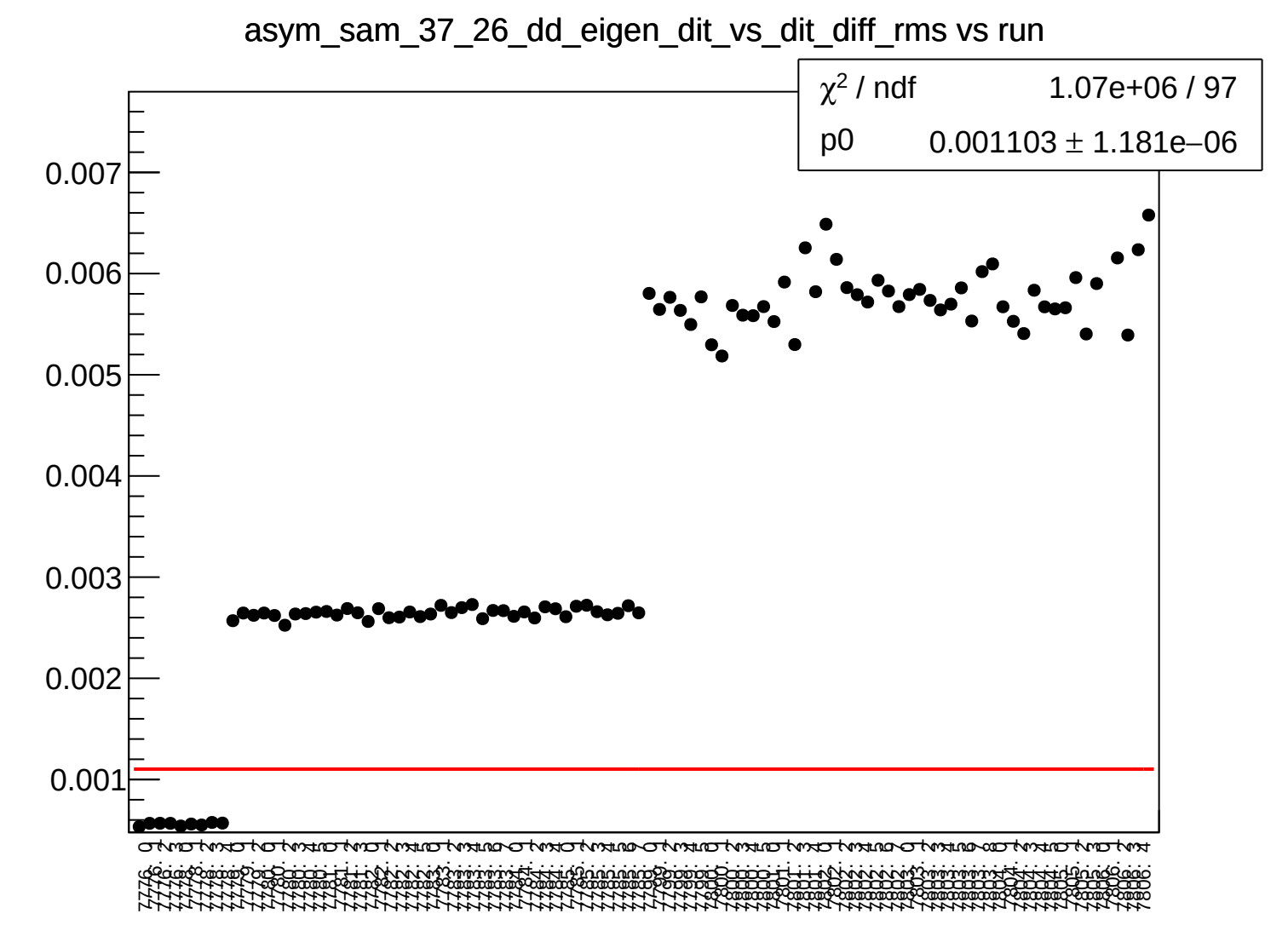

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.344e+04 / 97
p0 40.81 ± 0.02977
65
60
55
50
45
40
35
30
25

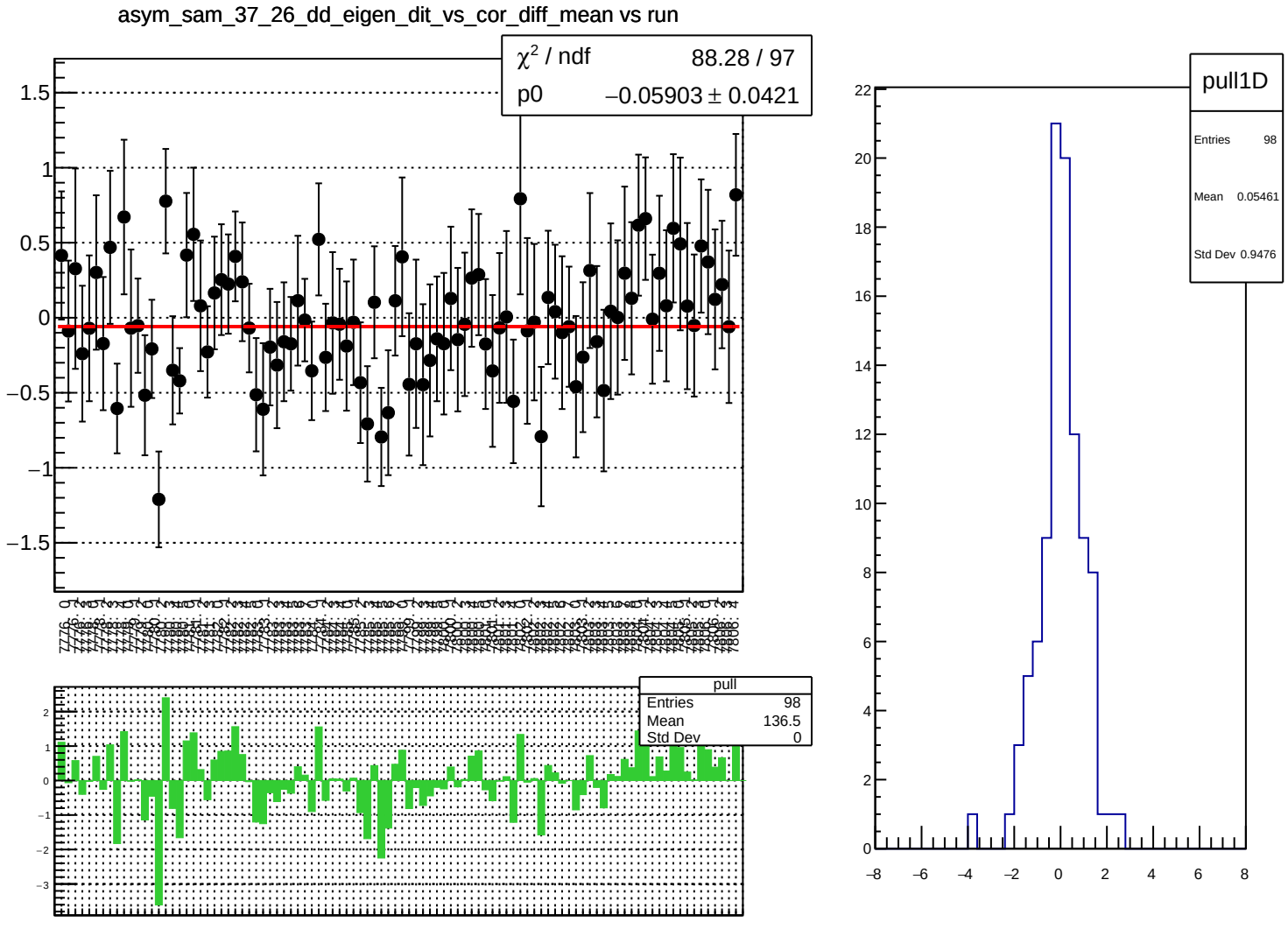

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.28 / 97
p0 −0.05902 ± 0.0421
pull
Entries 98
Mean 136.5
Std Dev 0
pull1D
Entries 98
Mean 0.0546
Std Dev 0.9476

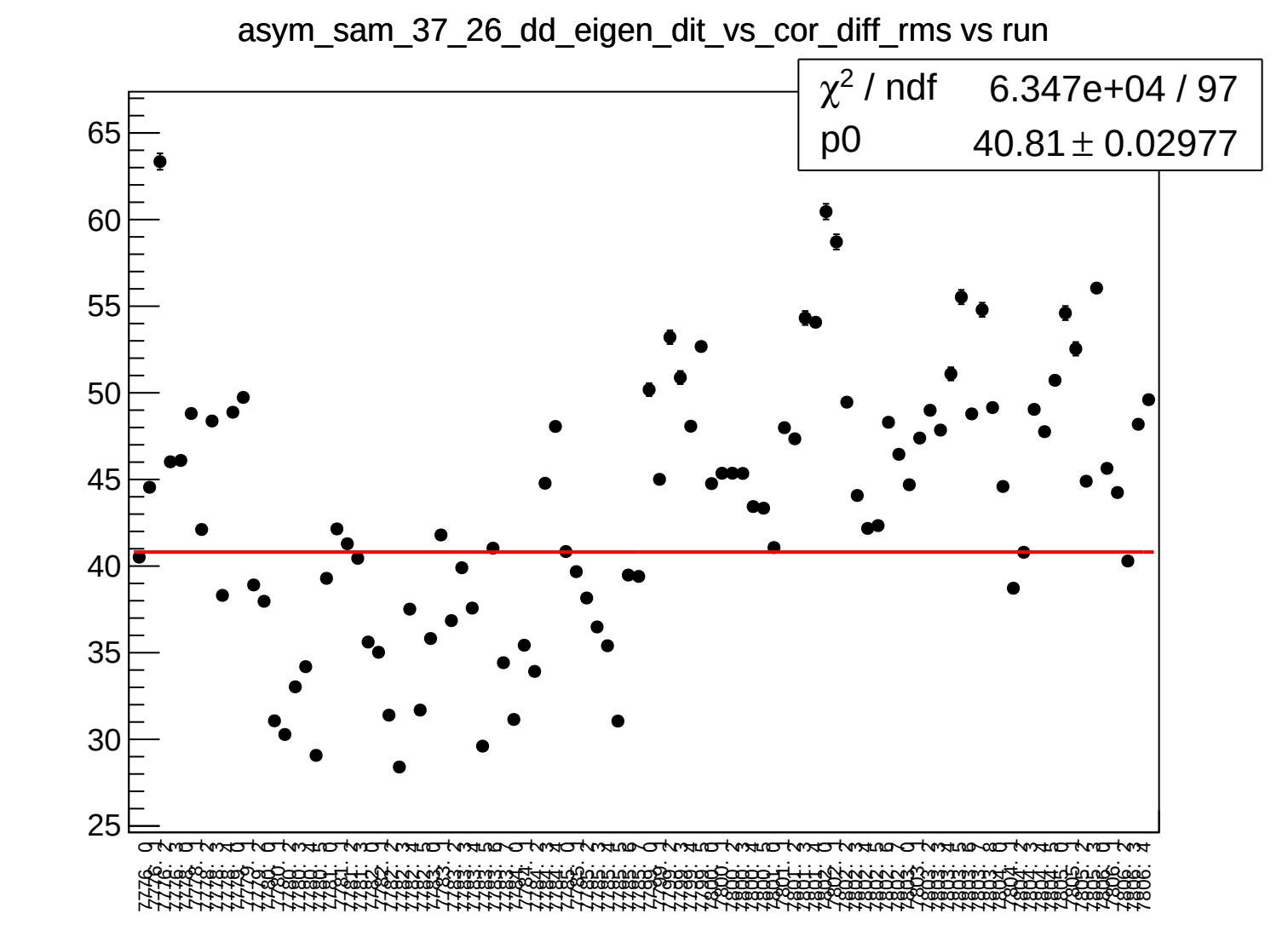

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.344e+04 / 97
p0 40.81 ± 0.02977
65
60
55
50
45
40
35
30
25

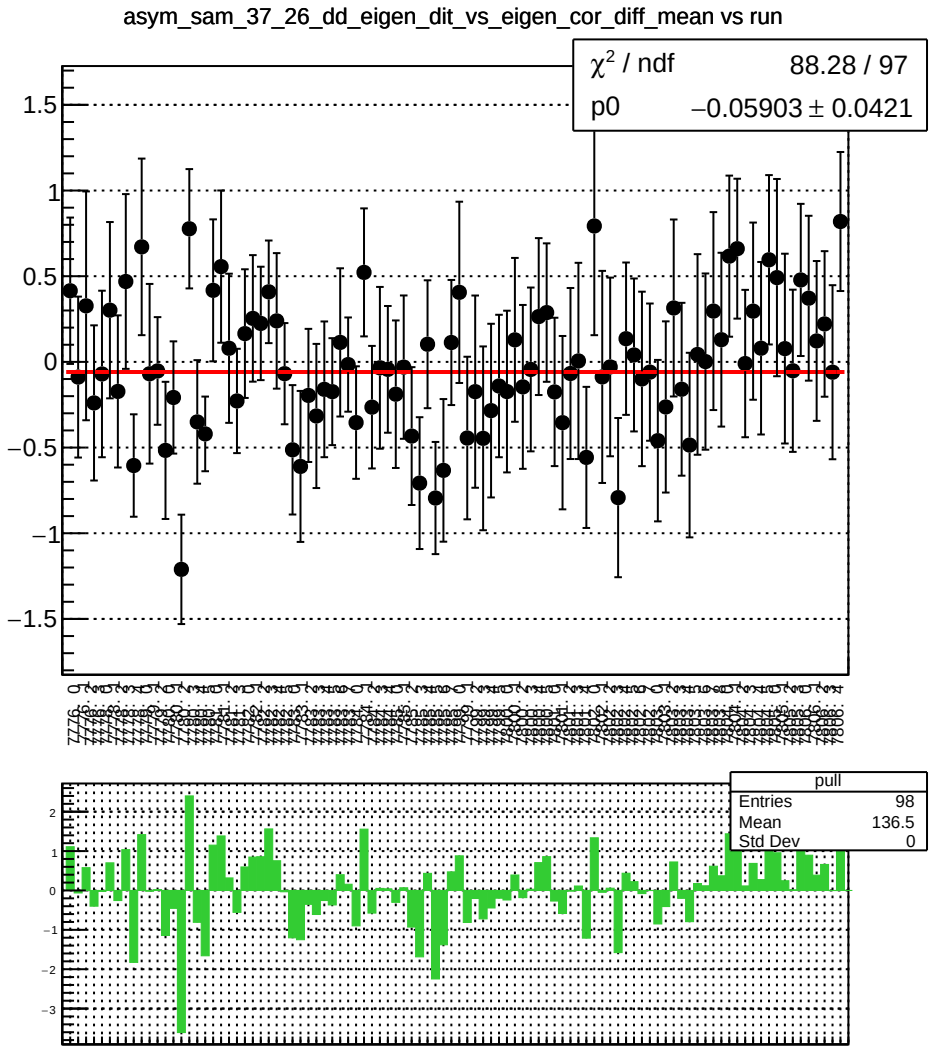

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.65 / 97
p0 8.072e−07 ± 1.67e−06
pull
Entries 98
Mean 106.6
Std Dev 0

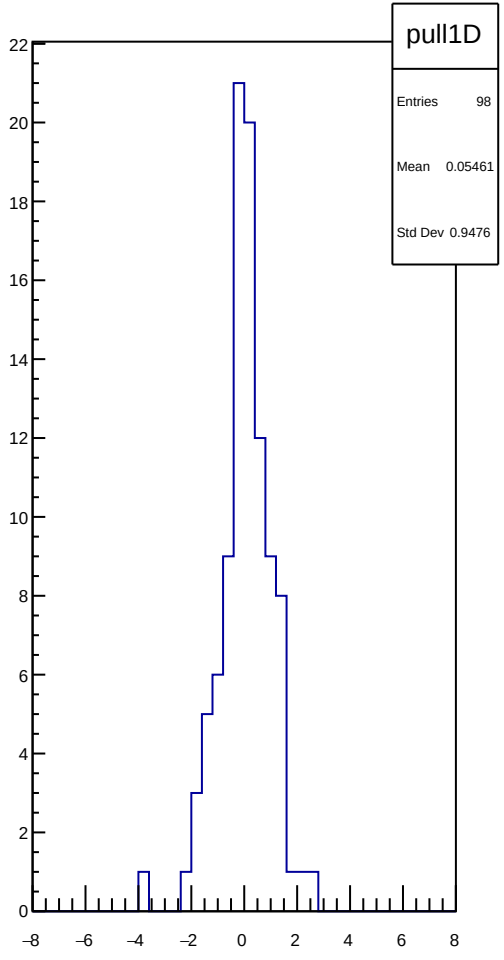

pull1D
Entries 98
Mean 0.06048
Std Dev 0.8409

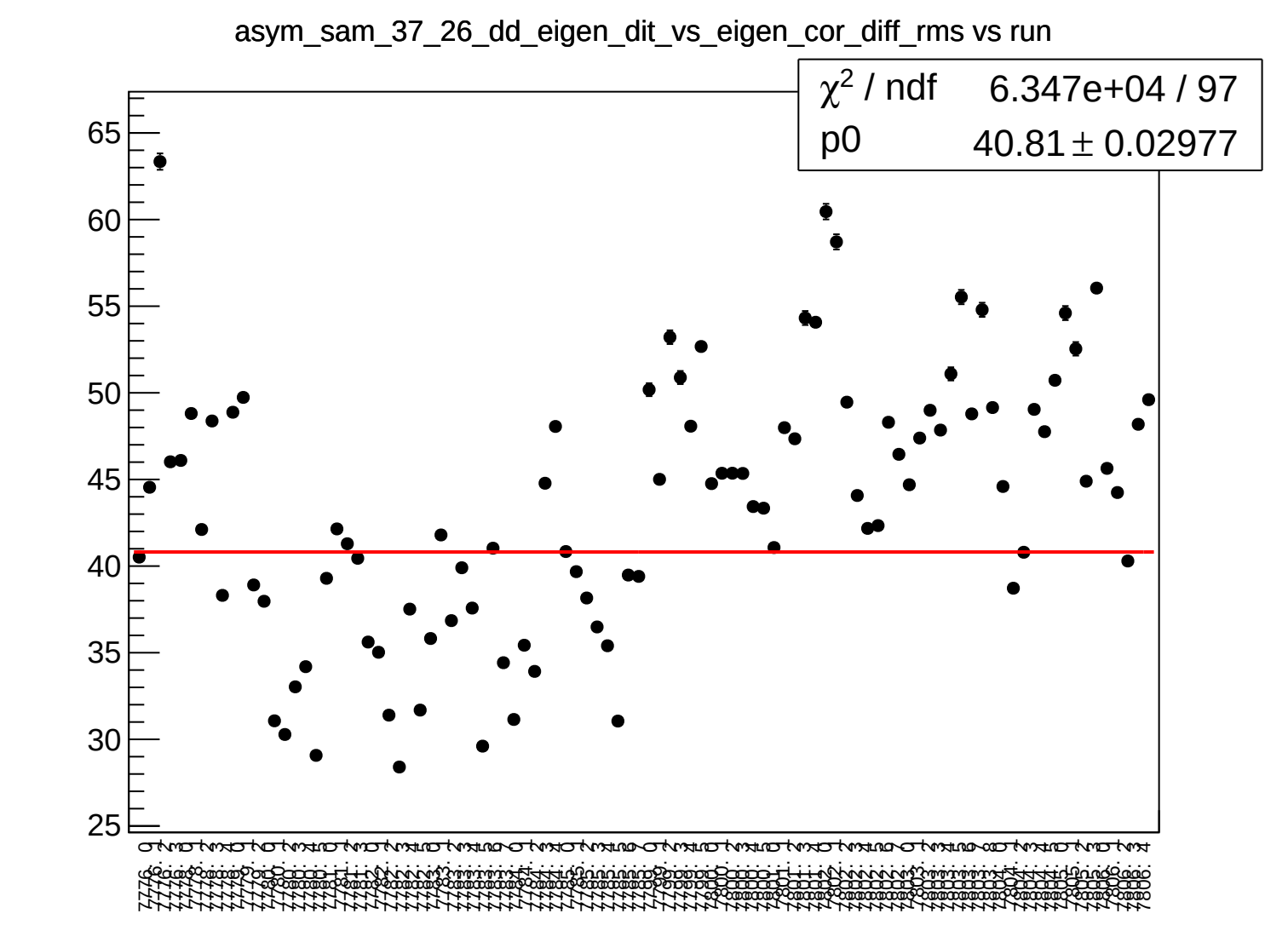

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.07e+06 / 97
p0 0.001103 ± 1.181e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

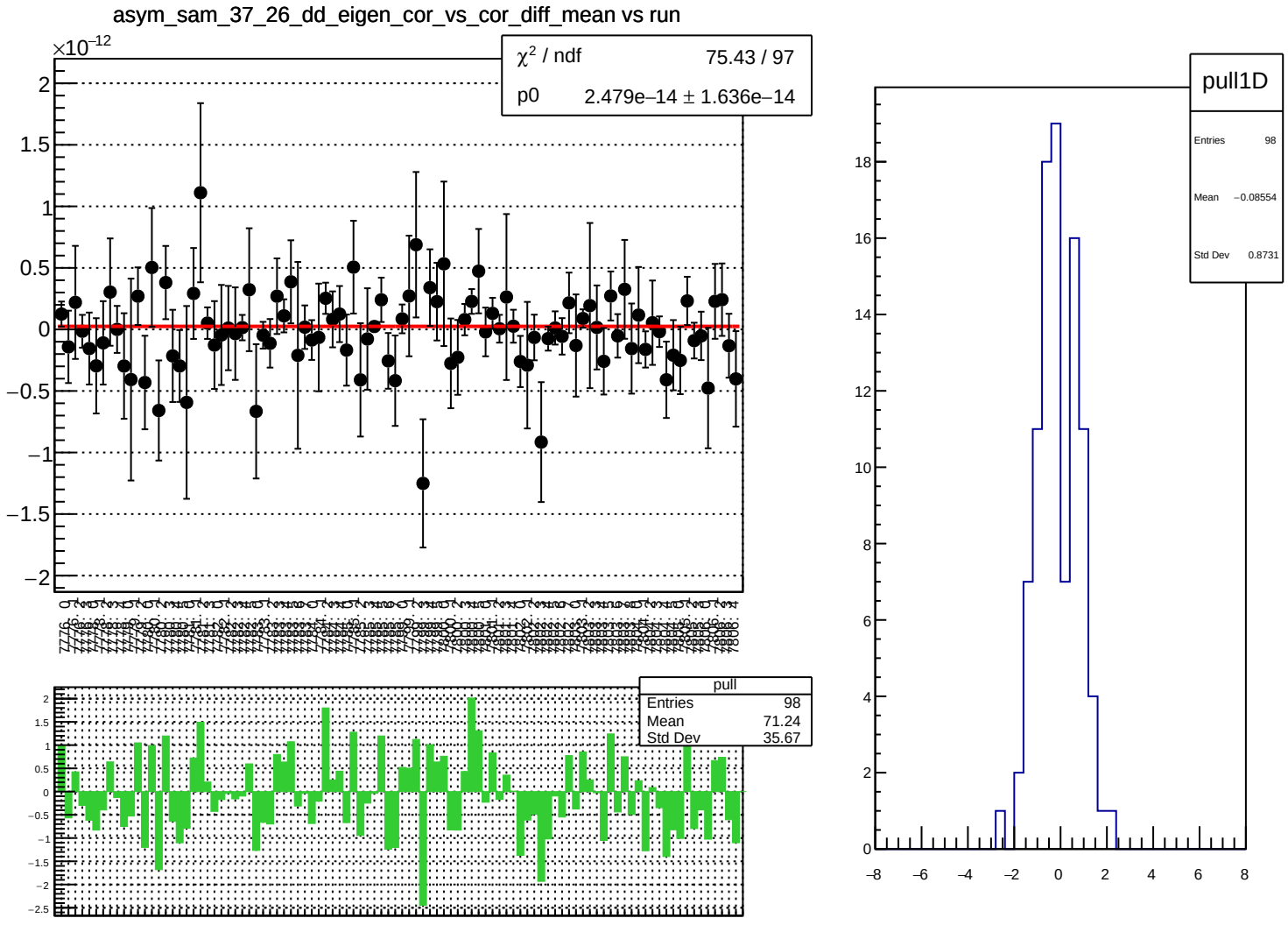

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.28 / 97
p0 −0.05903 ± 0.0421
pull
Entries 98
Mean 136.5
Std Dev 0
pull1D
Entries 98
Mean 0.05461
Std Dev 0.9476

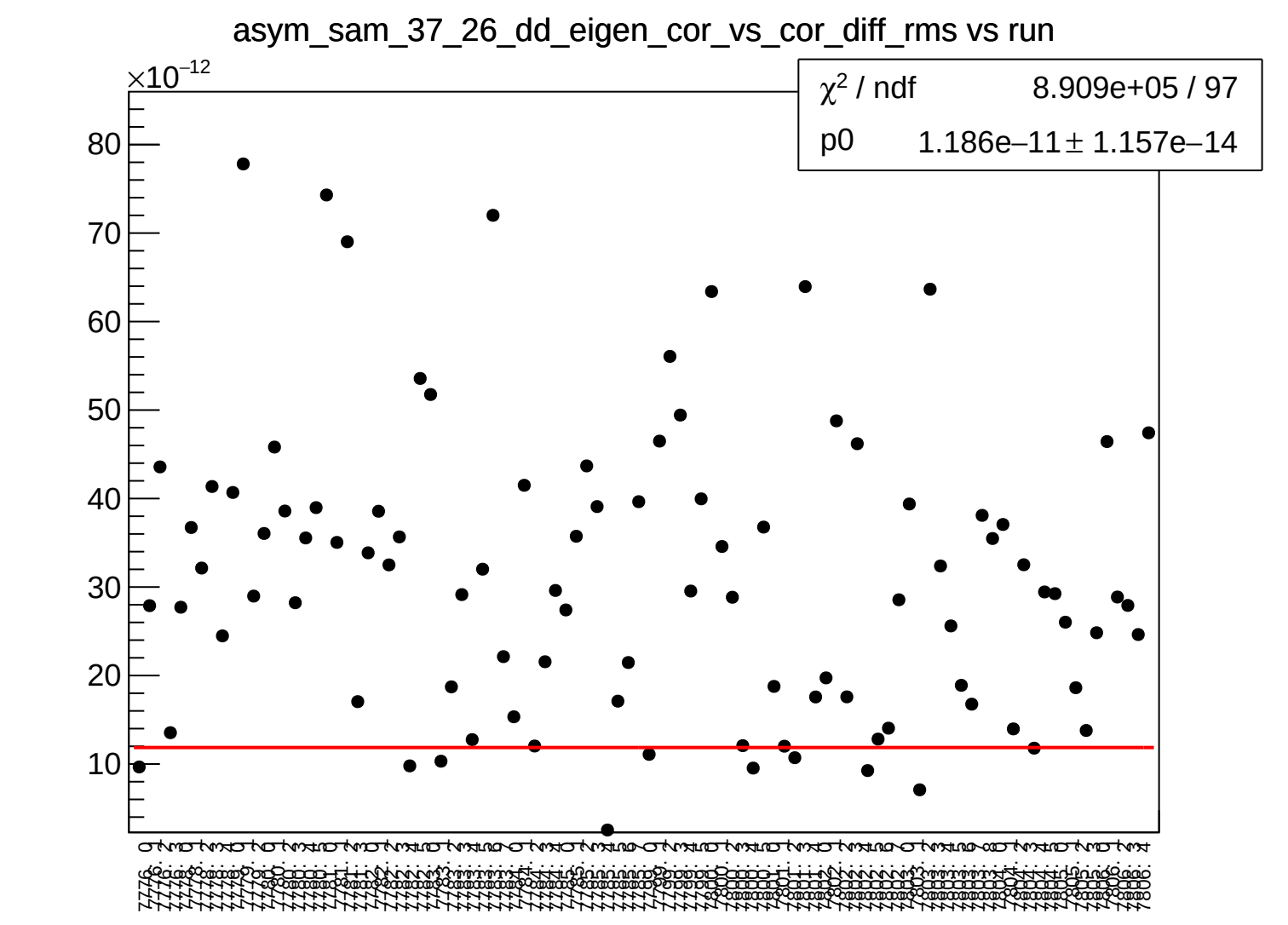

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.347e+04 / 97
p0 40.81 ± 0.02977
65
60
55
50
45
40
35
30
25

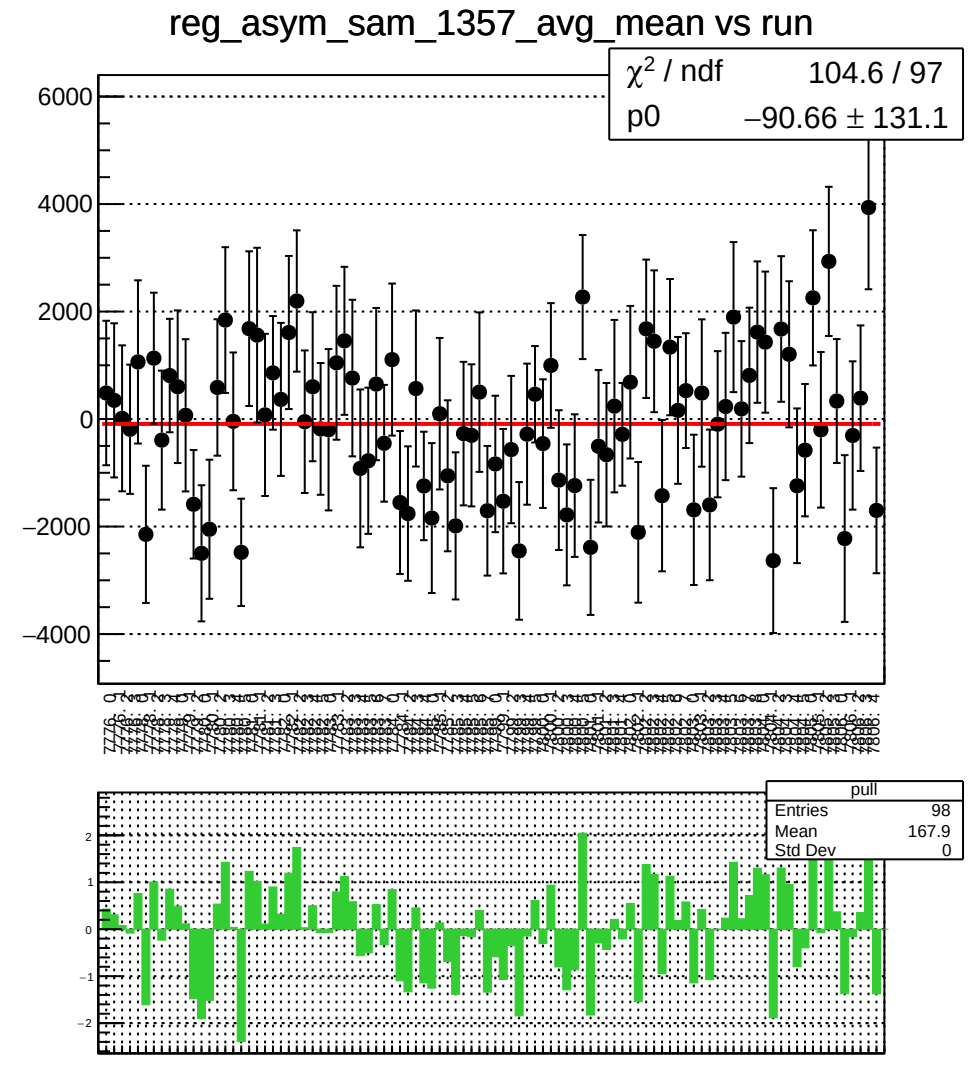

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.28 / 97
p0 −0.05903 ± 0.0421
pull
Entries 98
Mean 136.5
Std Dev 0

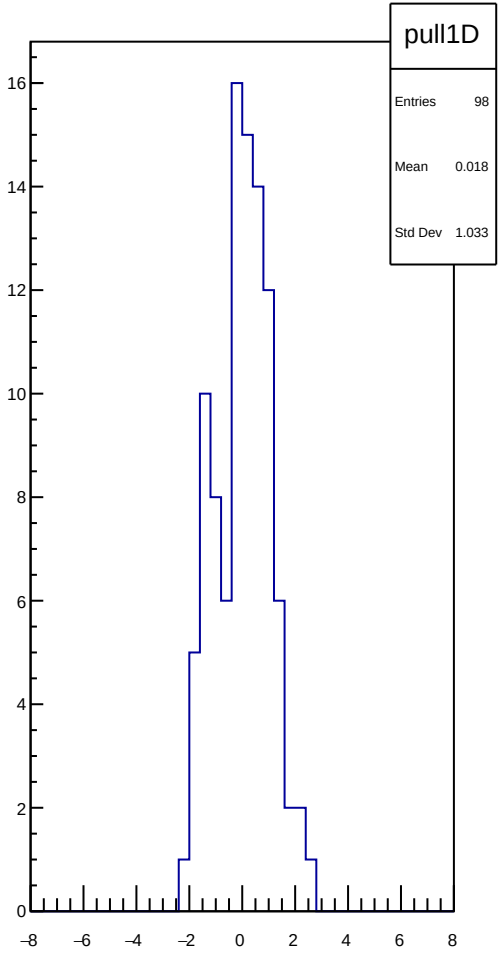

pull1D
Entries 98
Mean 0.05461
Std Dev 0.9476

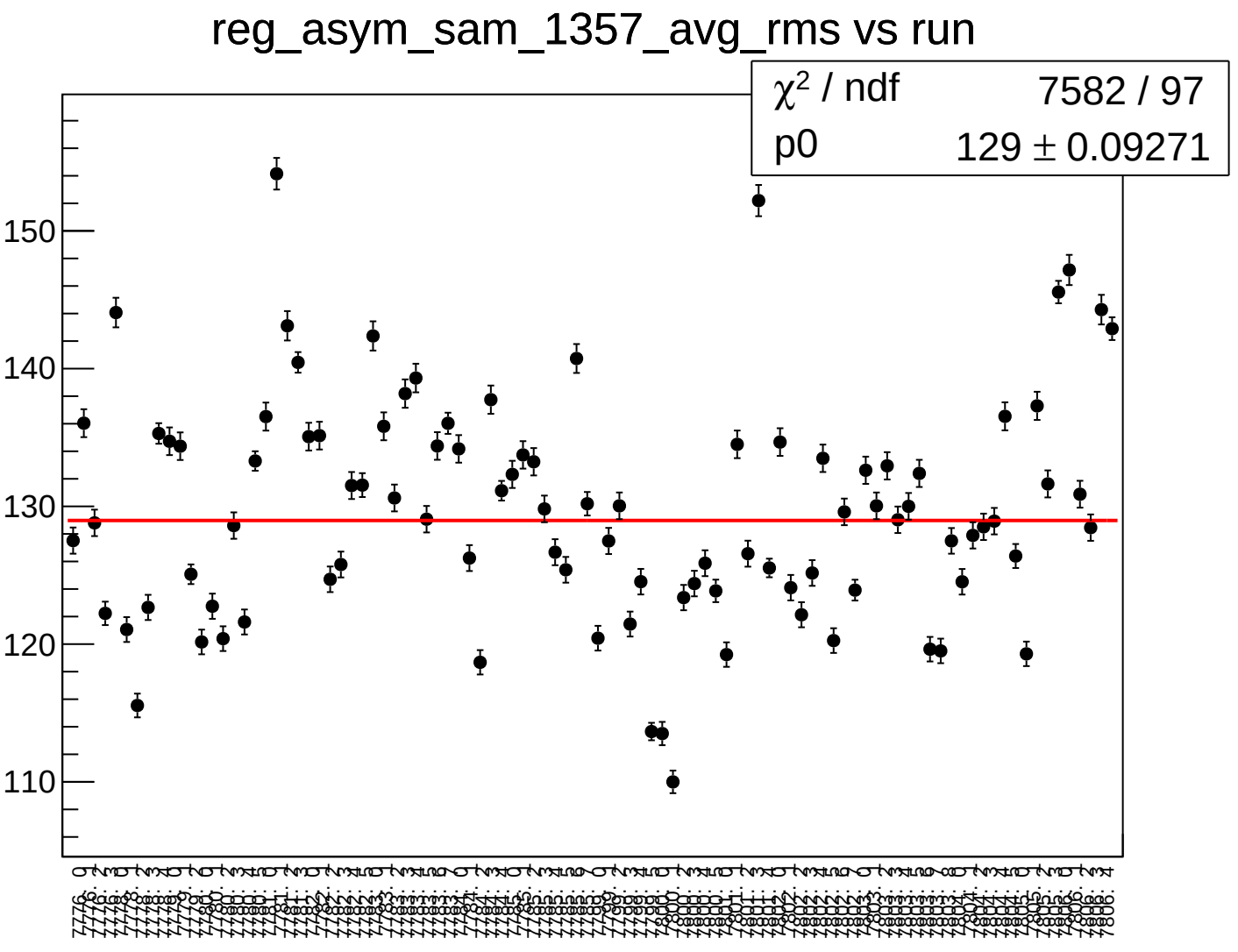

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.347e+04 / 97
p0 40.81 ± 0.02977
65
60
55
50
45
40
35
30
25

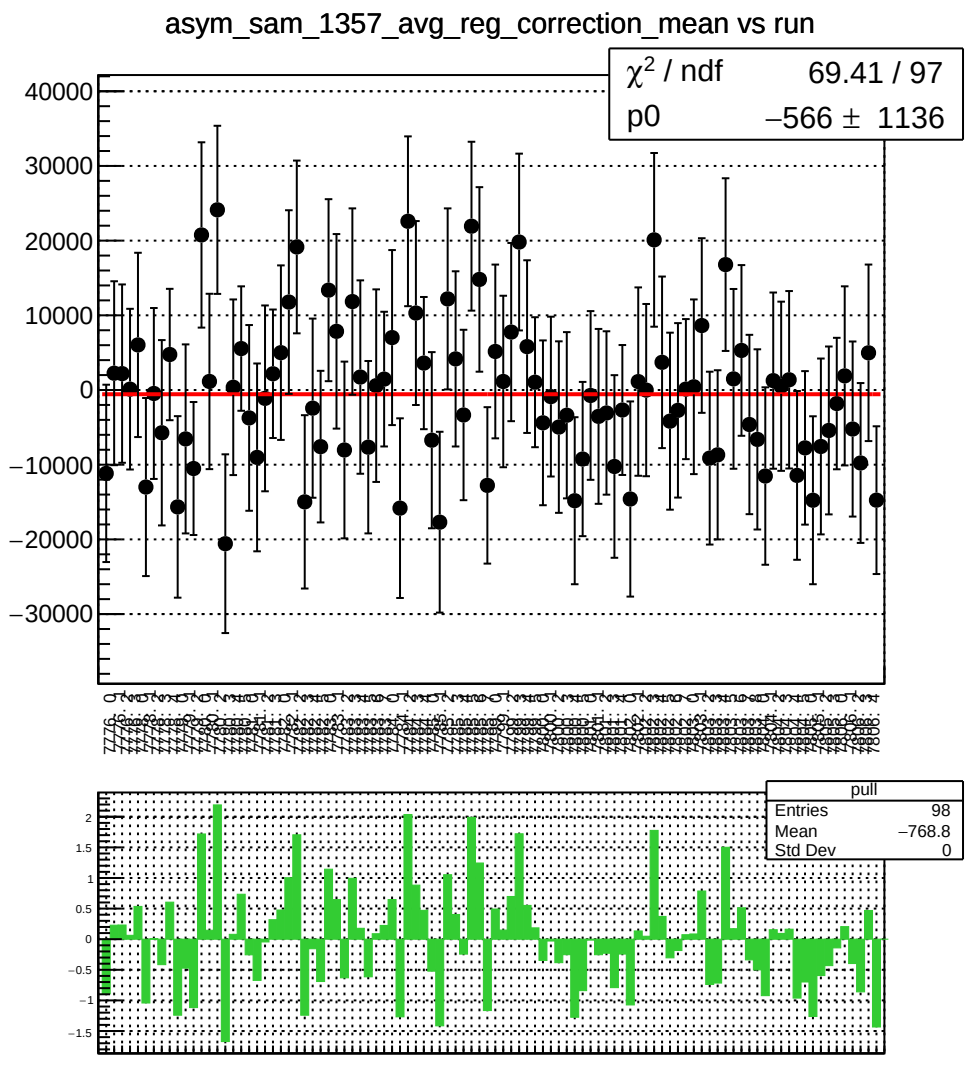

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.43 / 97
p0 2.479e−14 ± 1.636e−14
pull
Entries 98
Mean 71.24
Std Dev 35.67
pull1D
Entries 98
Mean −0.08554
Std Dev 0.8731

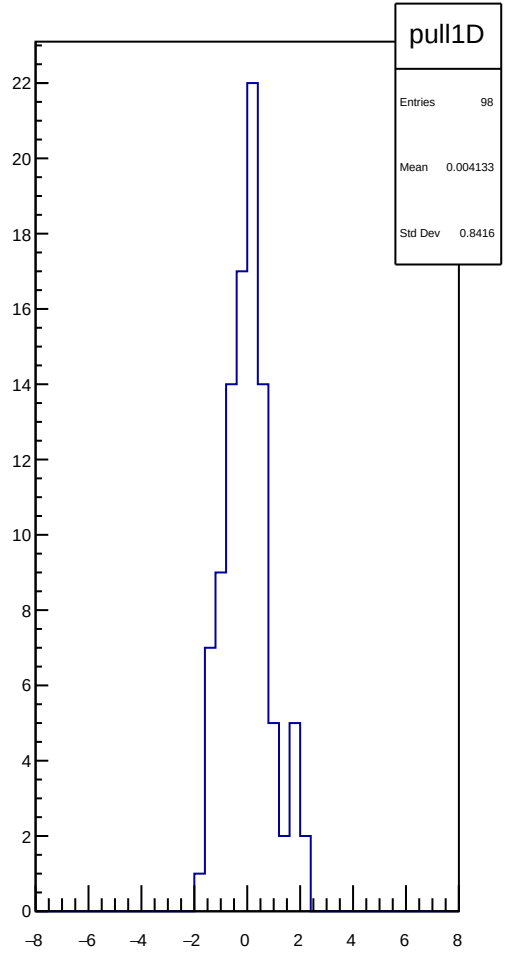

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.909e+05 / 97
p0 1.186e−11 ± 1.157e−14
80
70
60
50
40
30
20
10

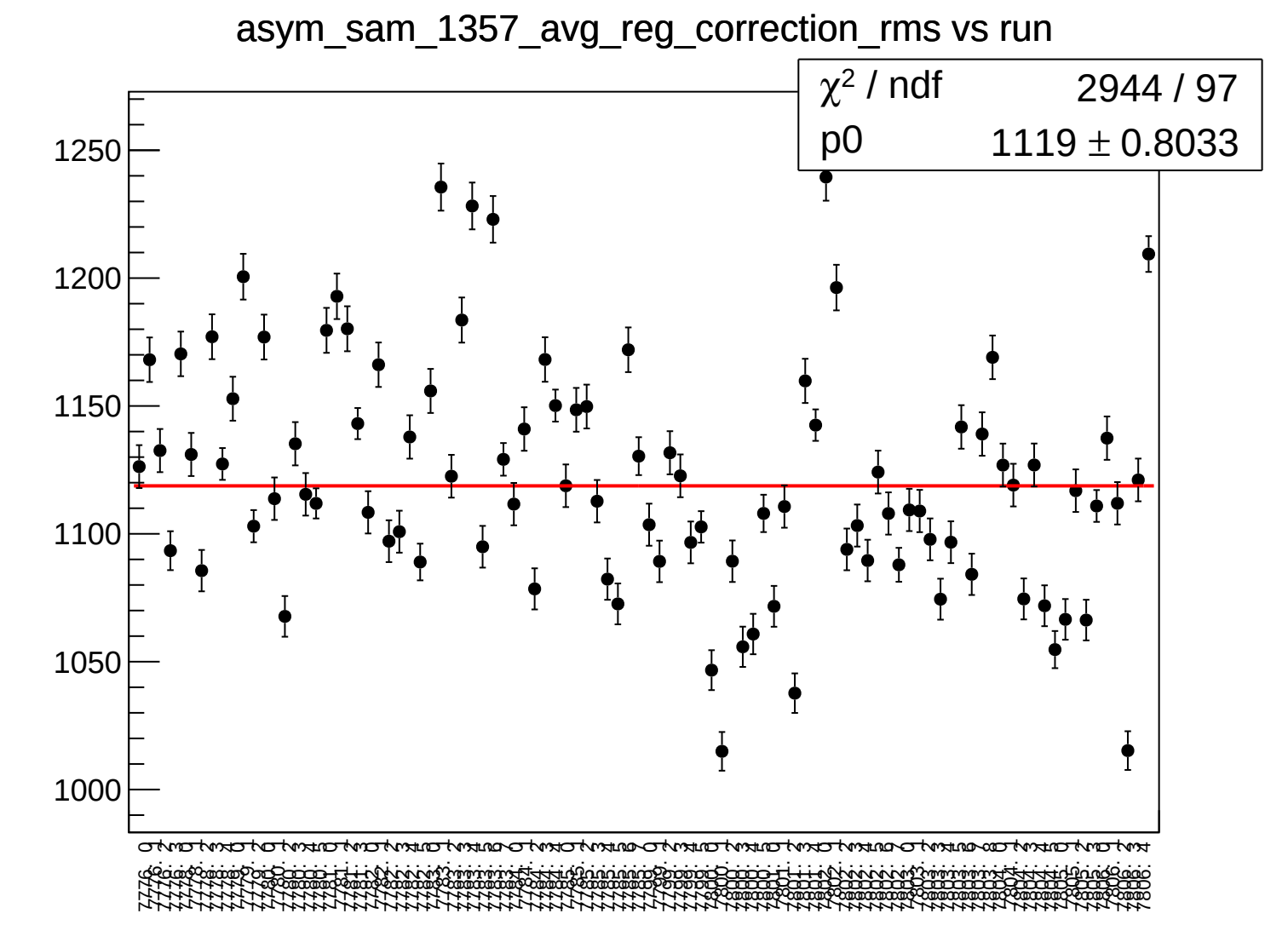

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 104.6 / 97
p0 −90.66 ± 131.1
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 167.9
Std Dev 0
2
1
0
−1
−2

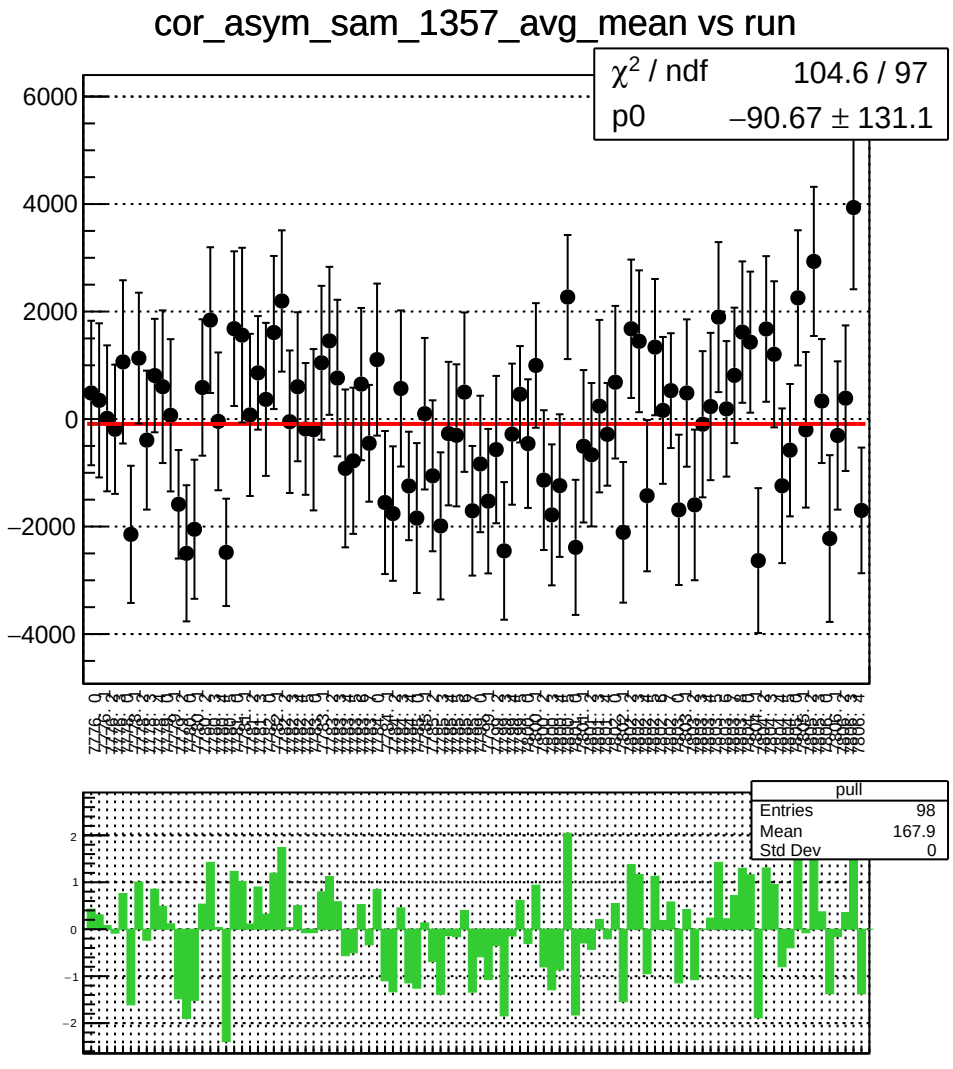

pull1D
Entries 98
Mean 0.018
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

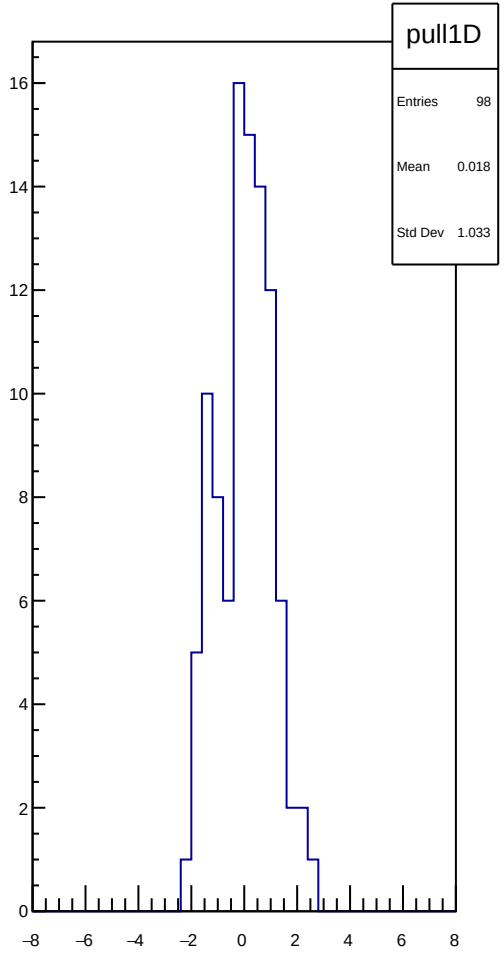

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 7582 / 97
p0 129 ± 0.09271
150
140
130
120
110

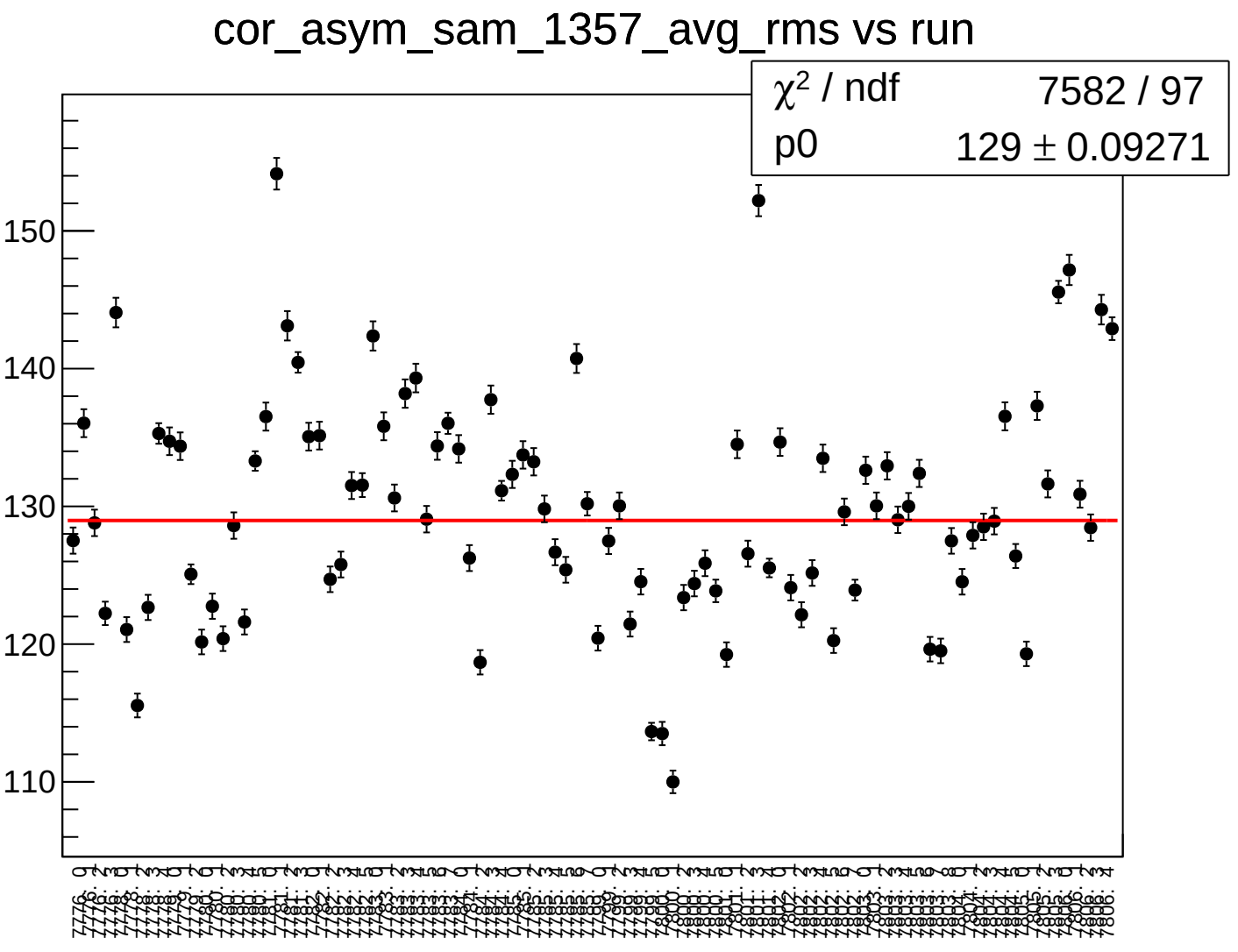

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 69.41 / 97
p0 −566 ± 1136
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −768.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

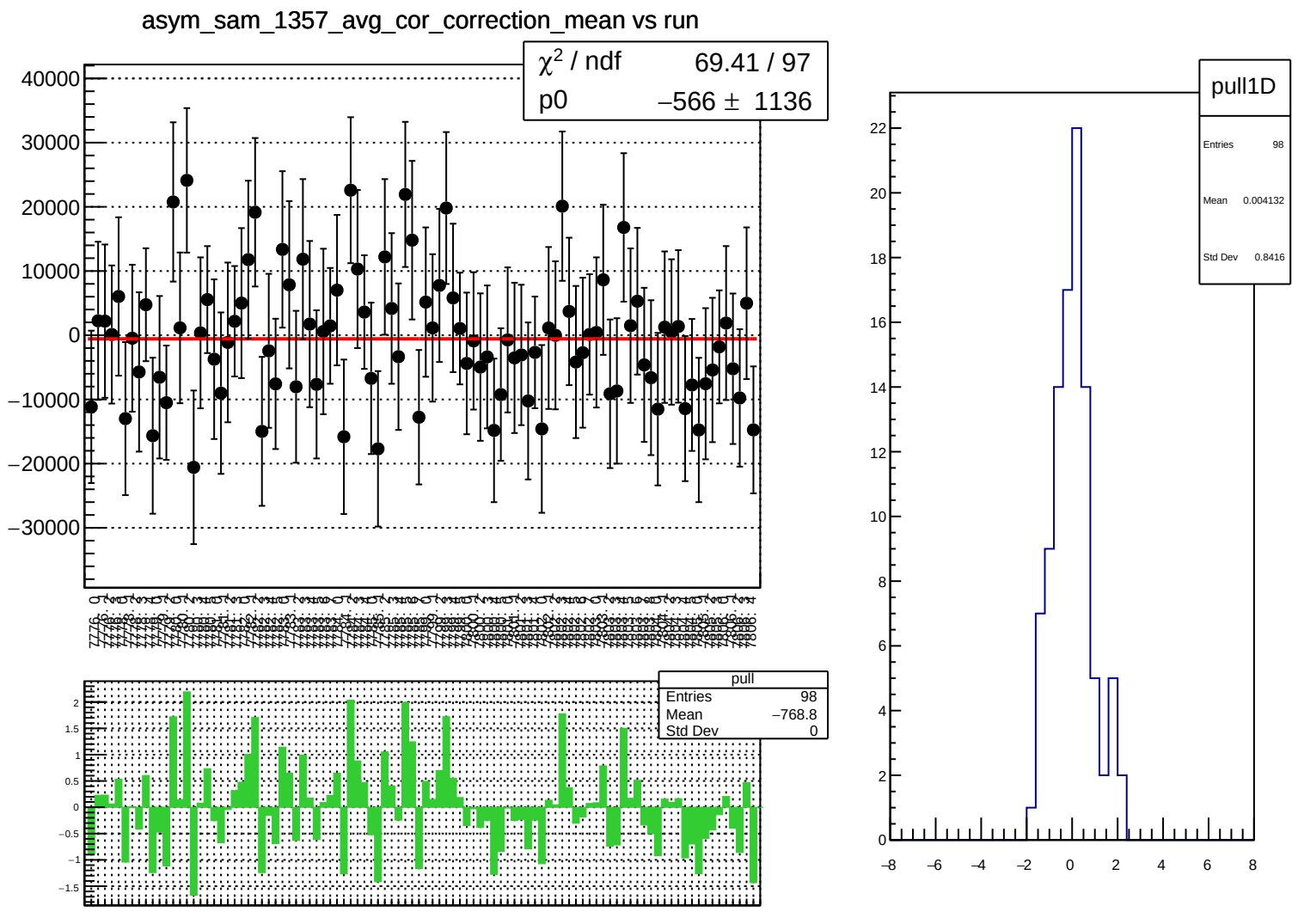

pull1D
Entries 98
Mean 0.004133
Std Dev 0.8416
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

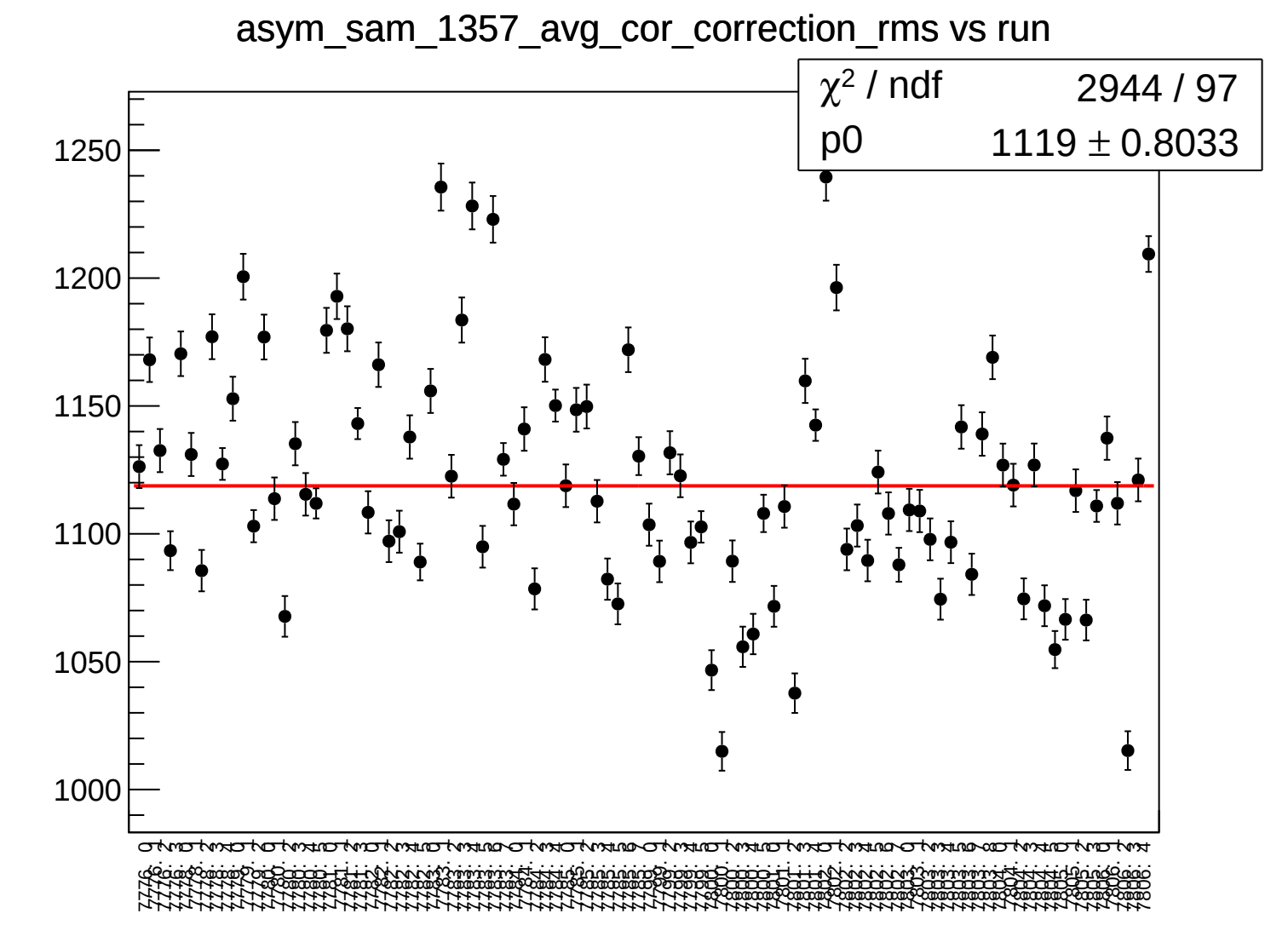

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 2944 / 97
p0 1119 ± 0.8033
1250
1200
1150
1100
1050
1000

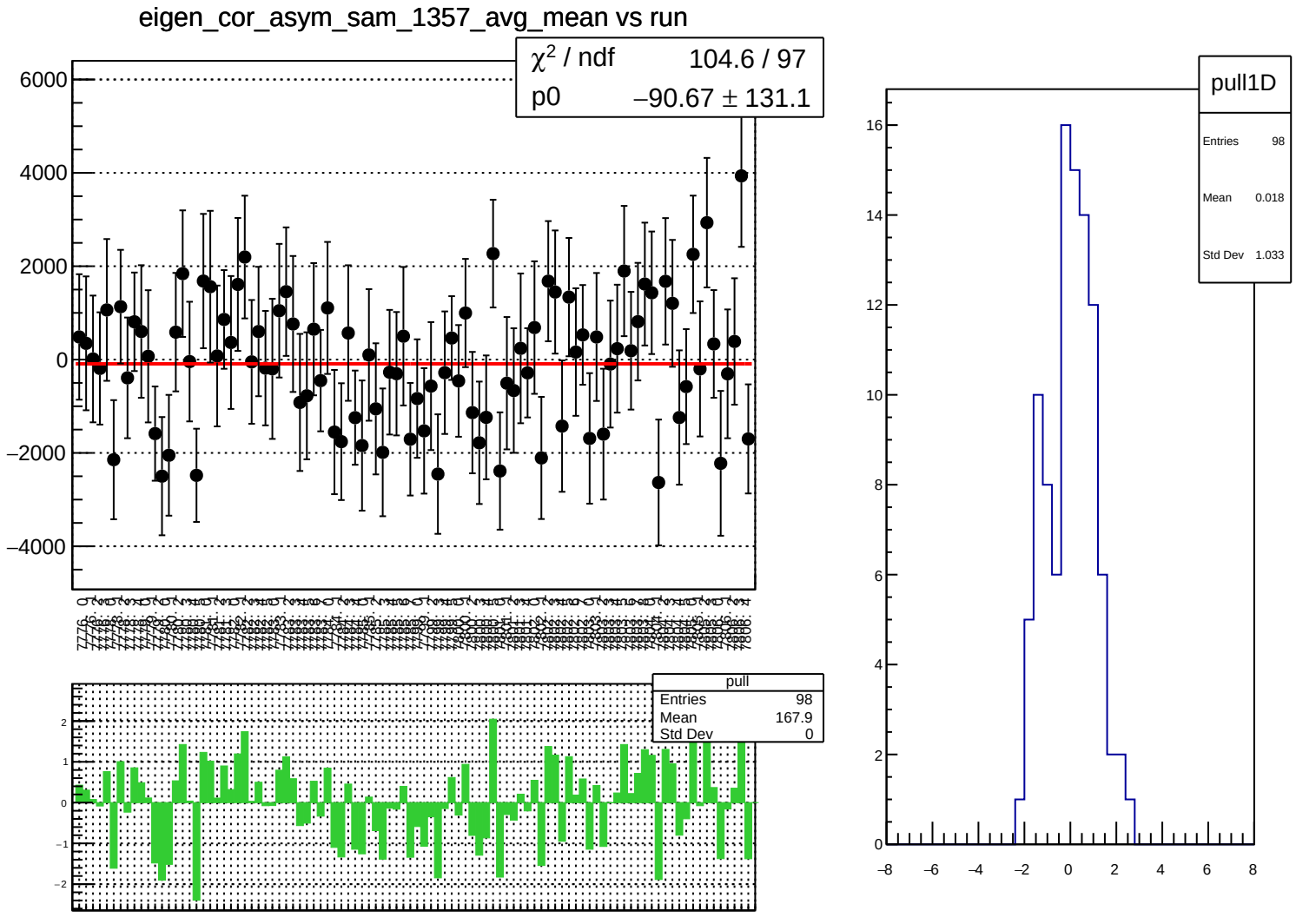

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 104.6 / 97
p0 −90.67 ± 131.1
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 167.9
Std Dev 0
2
1
0
−1
−2

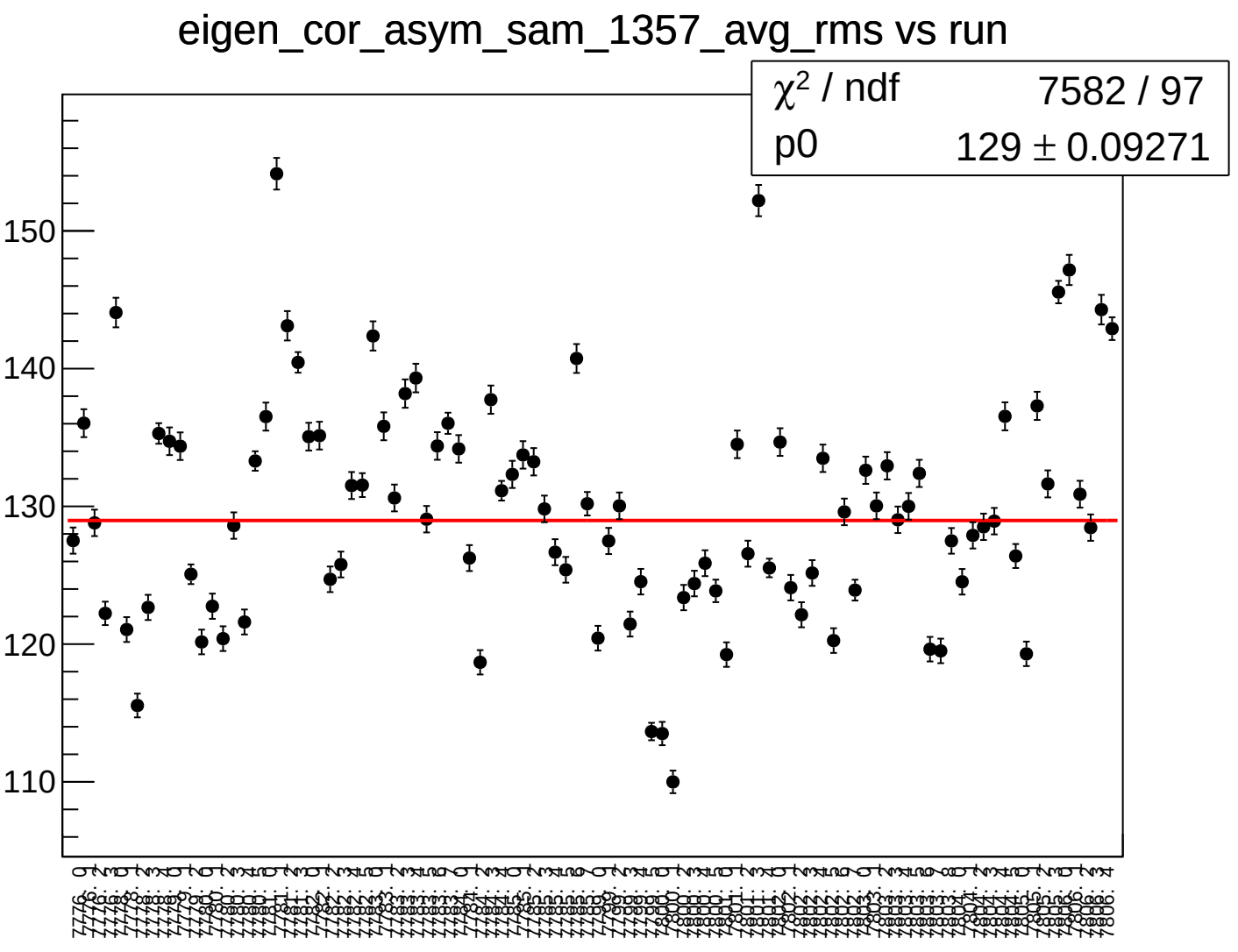

pull1D
Entries 98
Mean 0.018
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

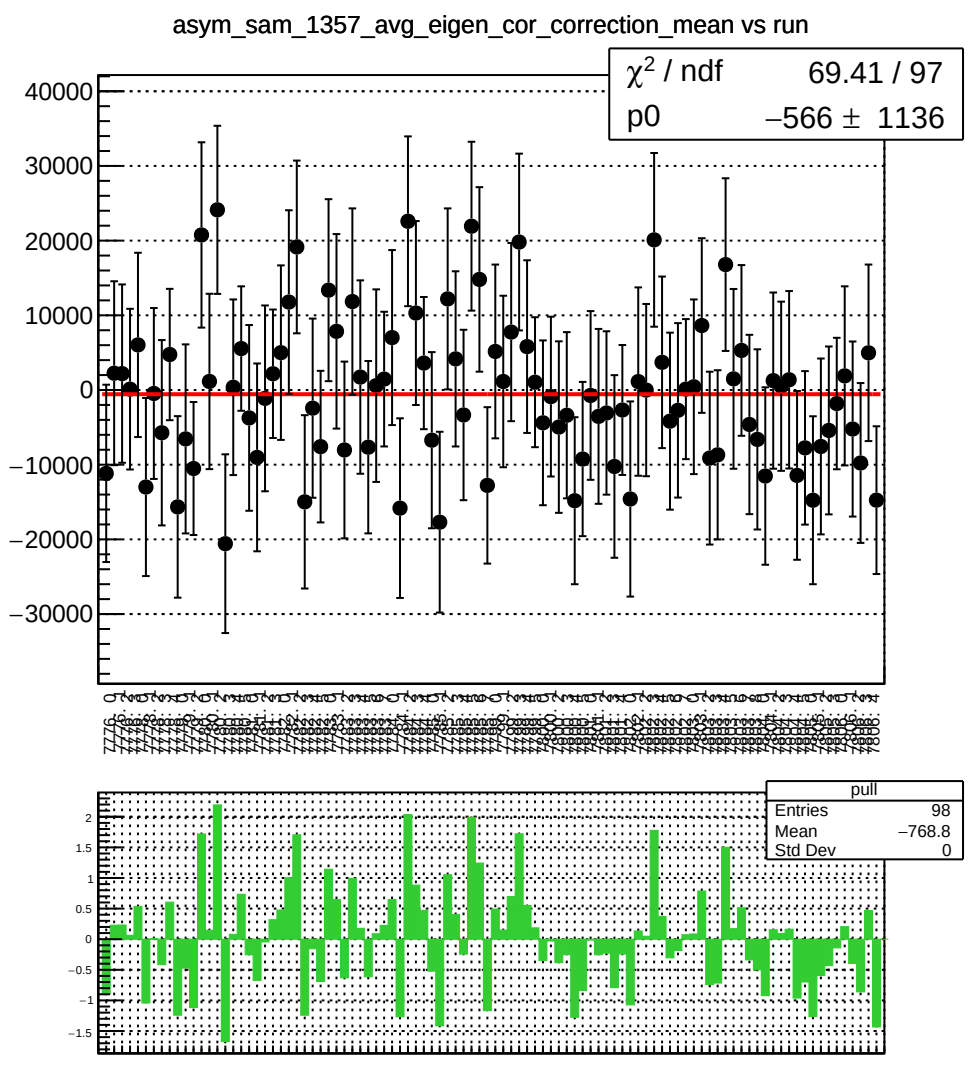

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 7582 / 97
p0 129 ± 0.09271
150
140
130
120
110

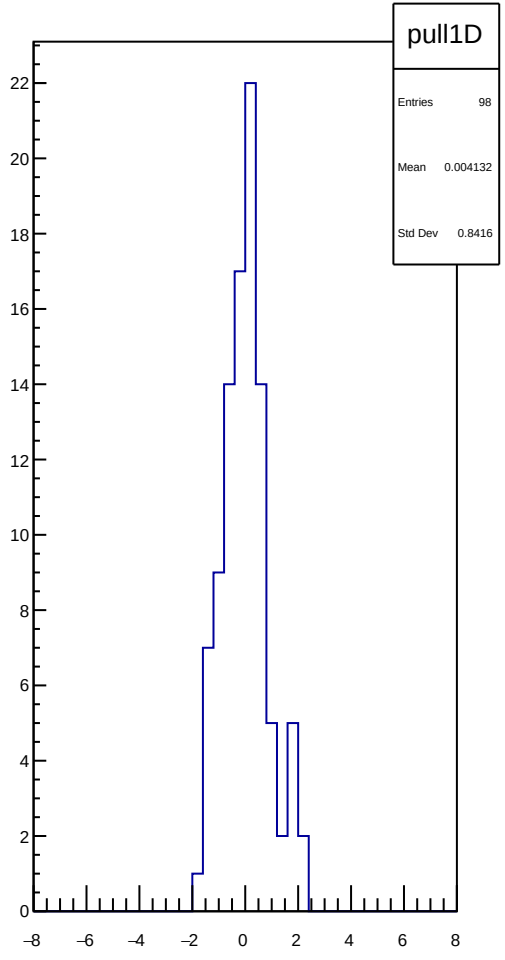

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 69.41 / 97
p0 −566 ± 1136
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −768.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.004132
Std Dev 0.8416
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

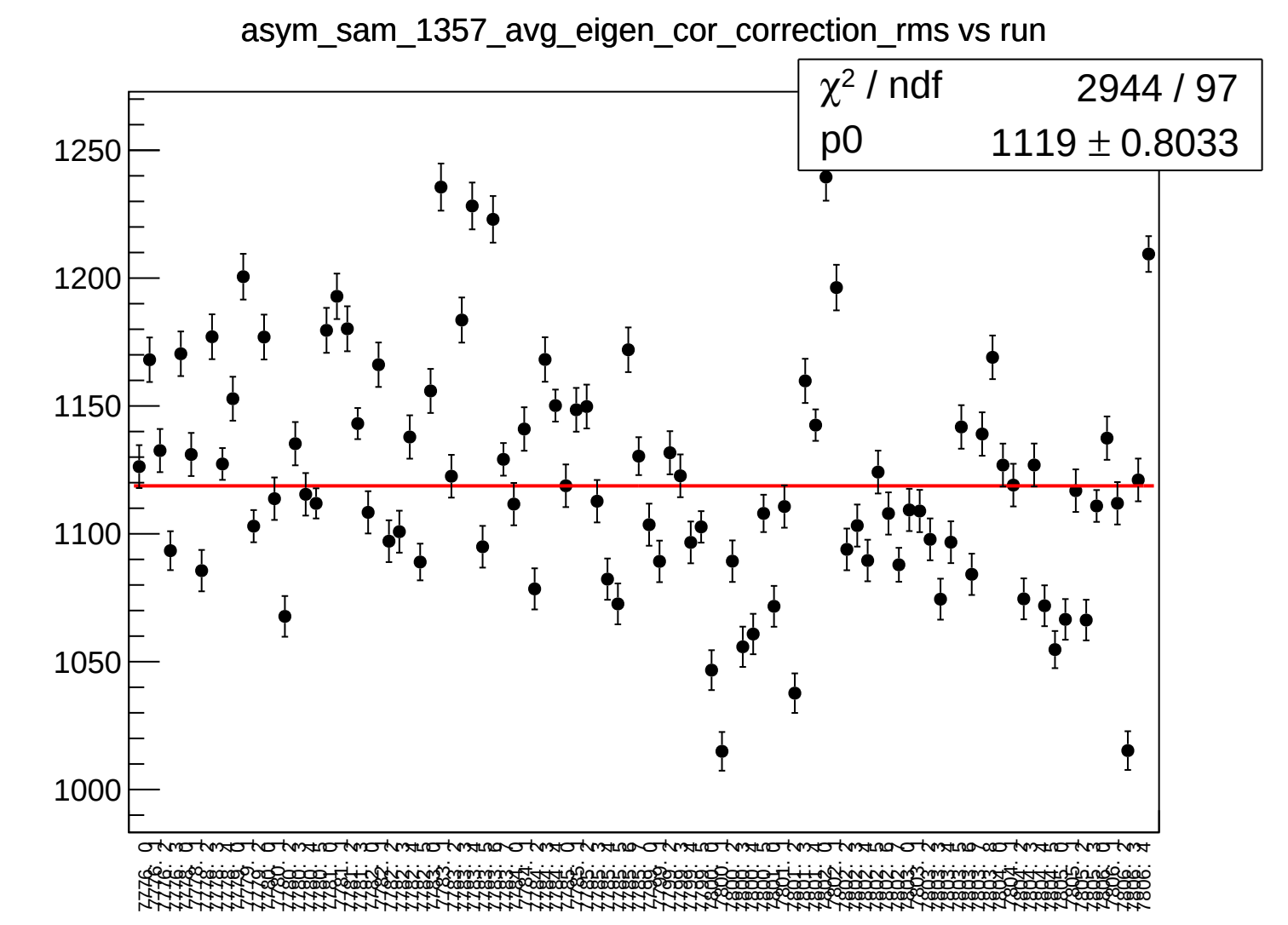

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 2944 / 97
p0 1119 ± 0.8033
1250
1200
1150
1100
1050
1000

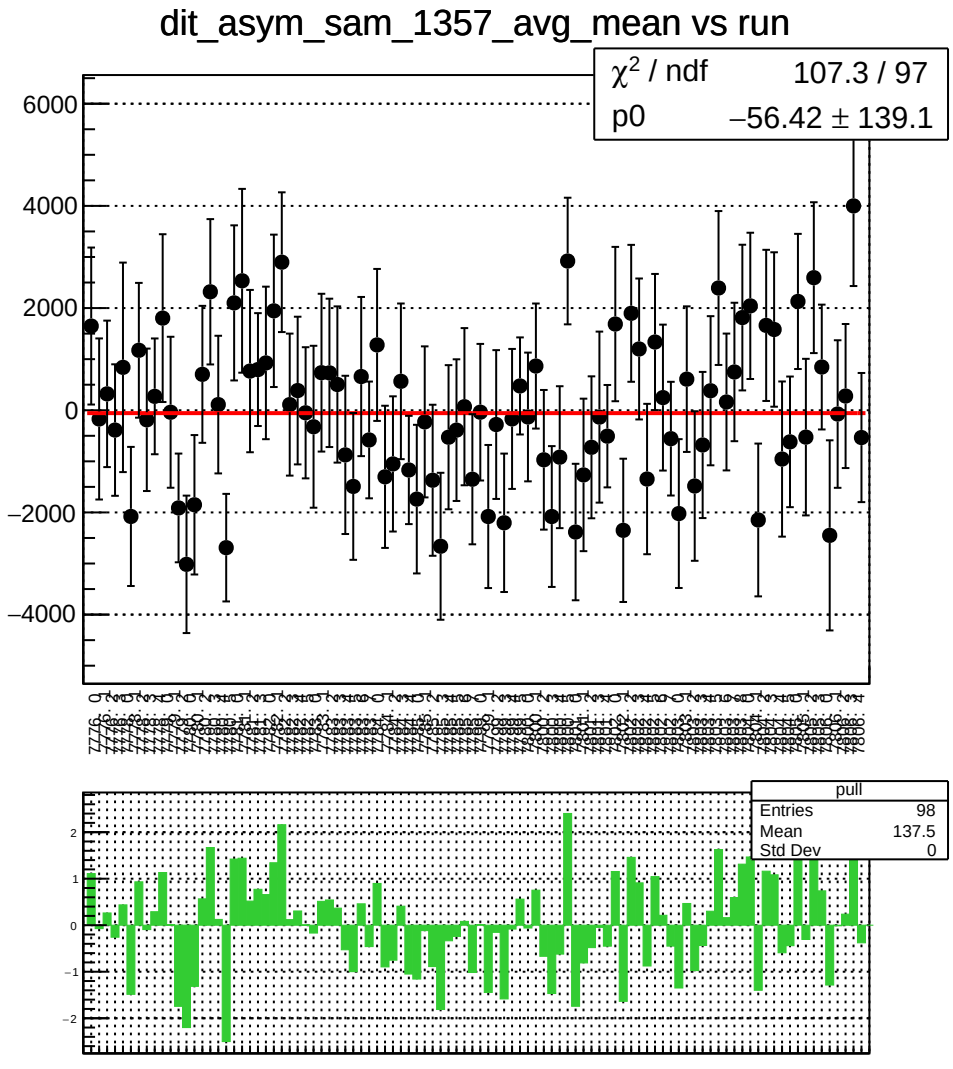

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 104.6 / 97
p0 −90.67 ± 131.1
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 167.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.018
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

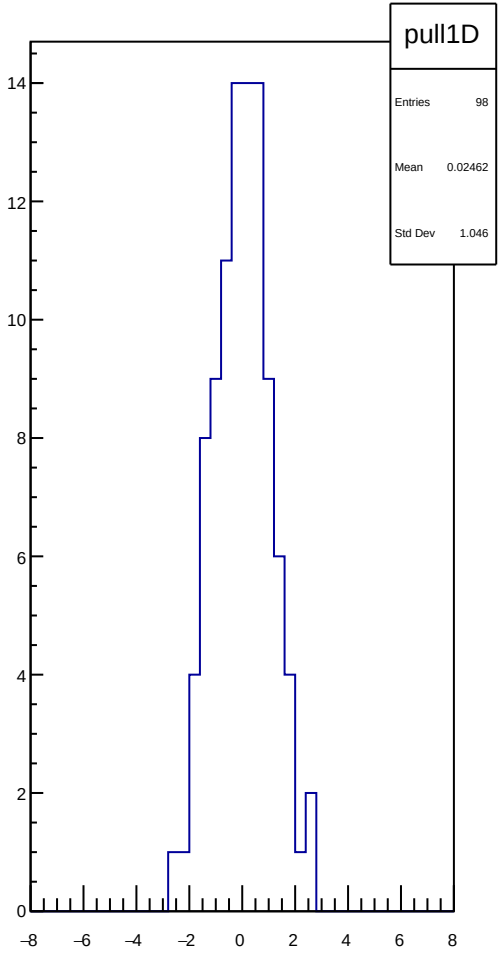

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 7582 / 97
p0 129 ± 0.09271
150
140
130
120
110

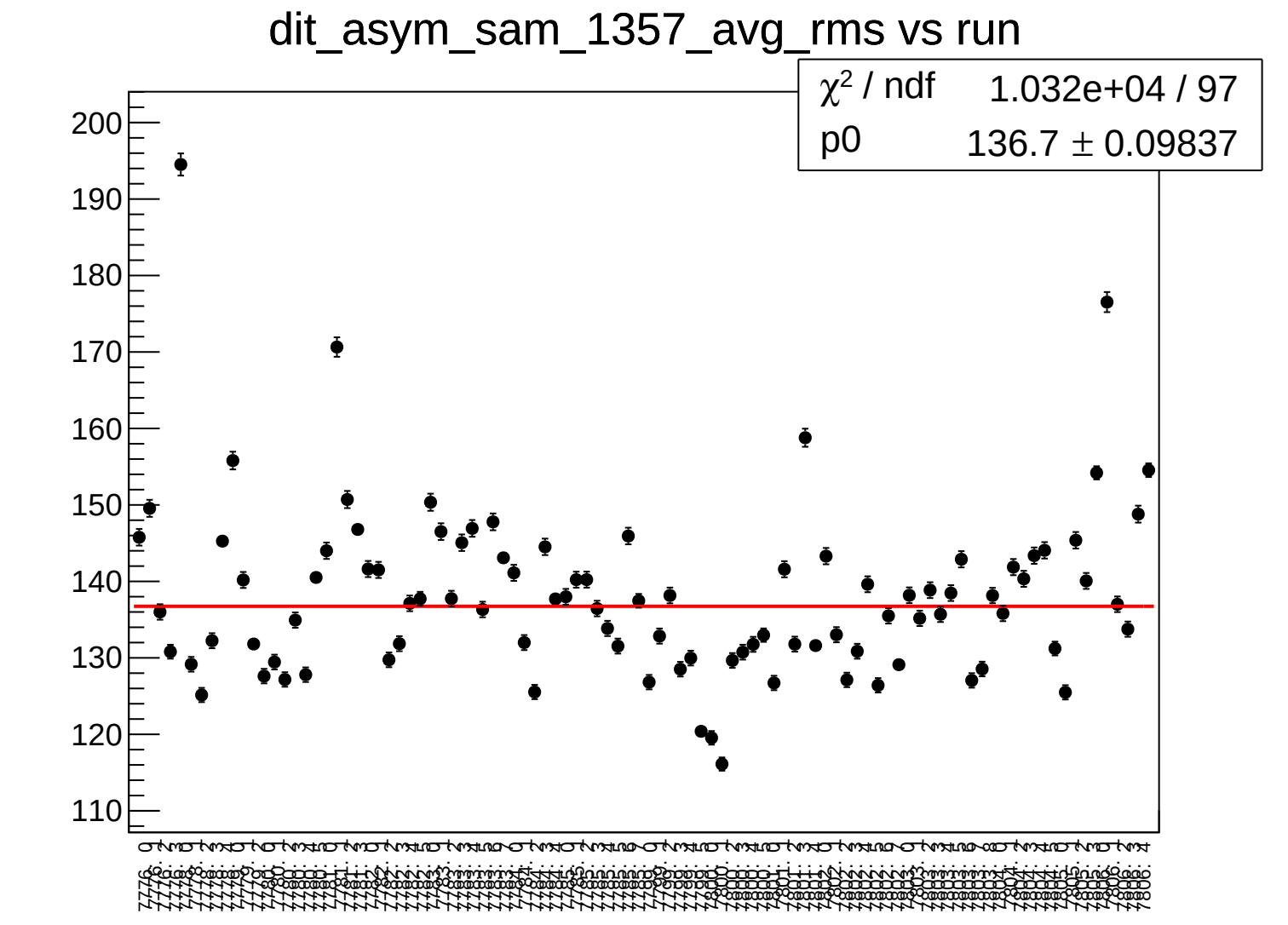

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.41 / 97
p0 −566 ± 1136
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −768.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

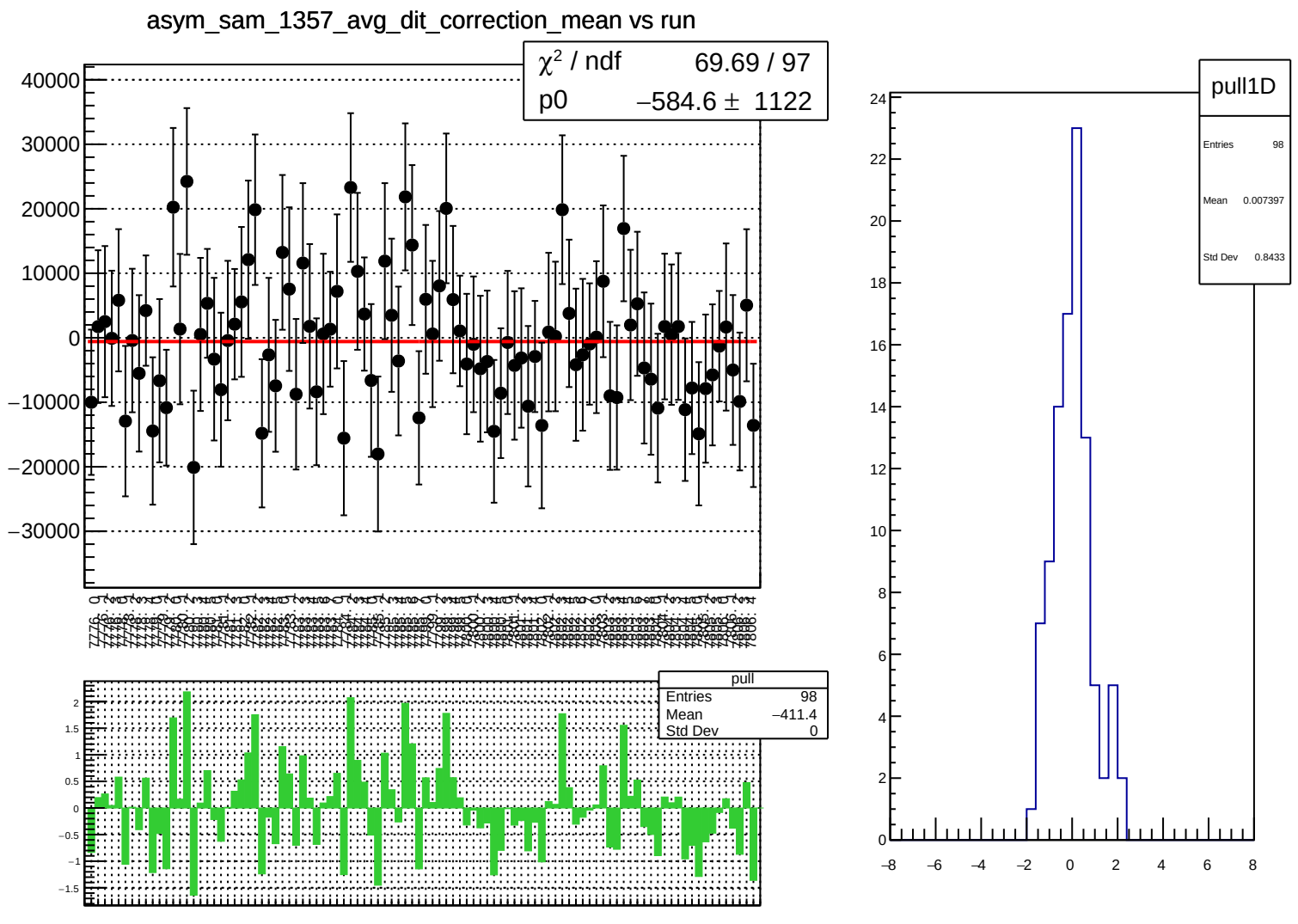

pull1D
Entries 98
Mean 0.004132
Std Dev 0.8416
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

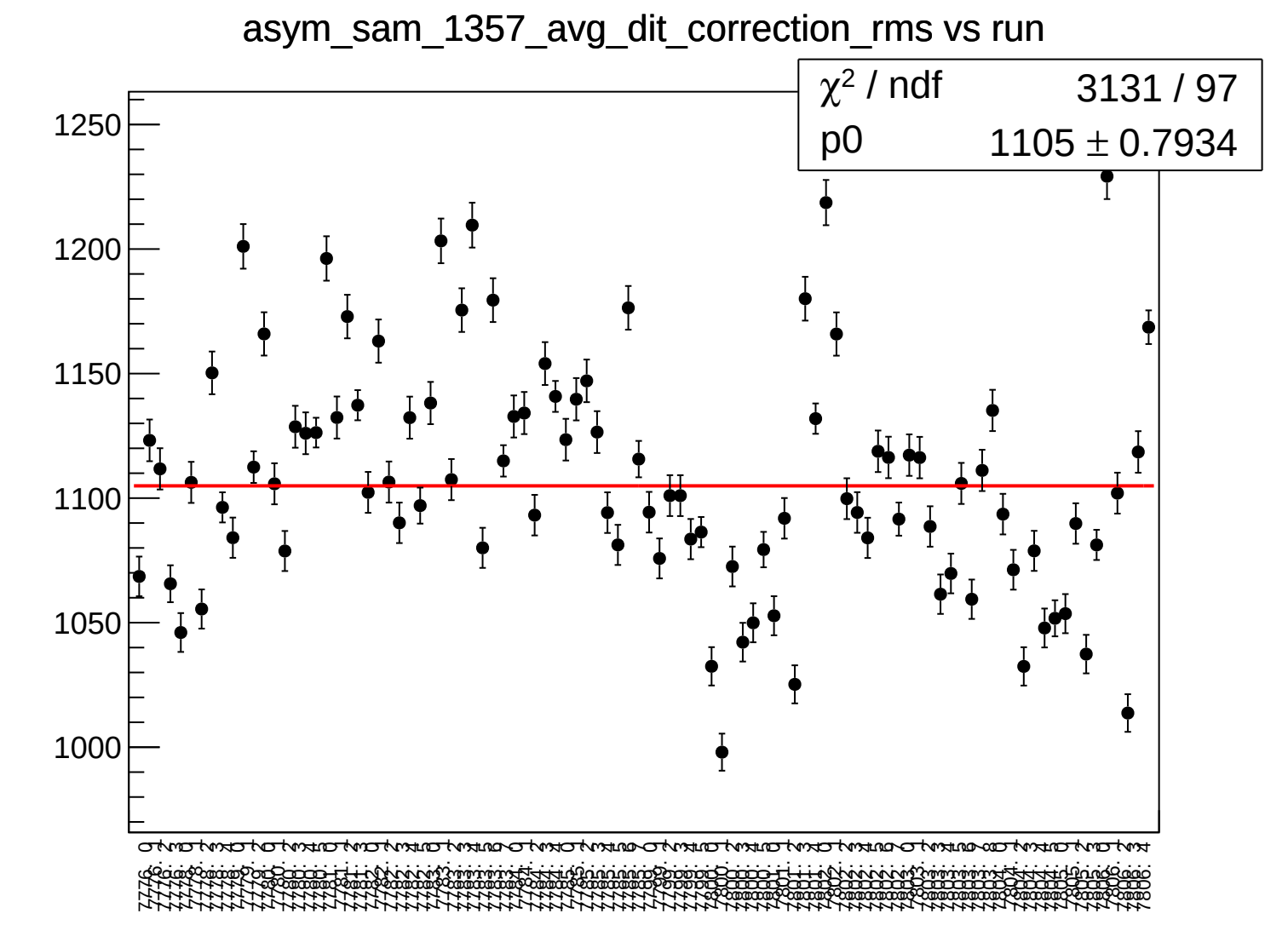

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 2944 / 97
p0 1119 ± 0.8033
1250
1200
1150
1100
1050
1000

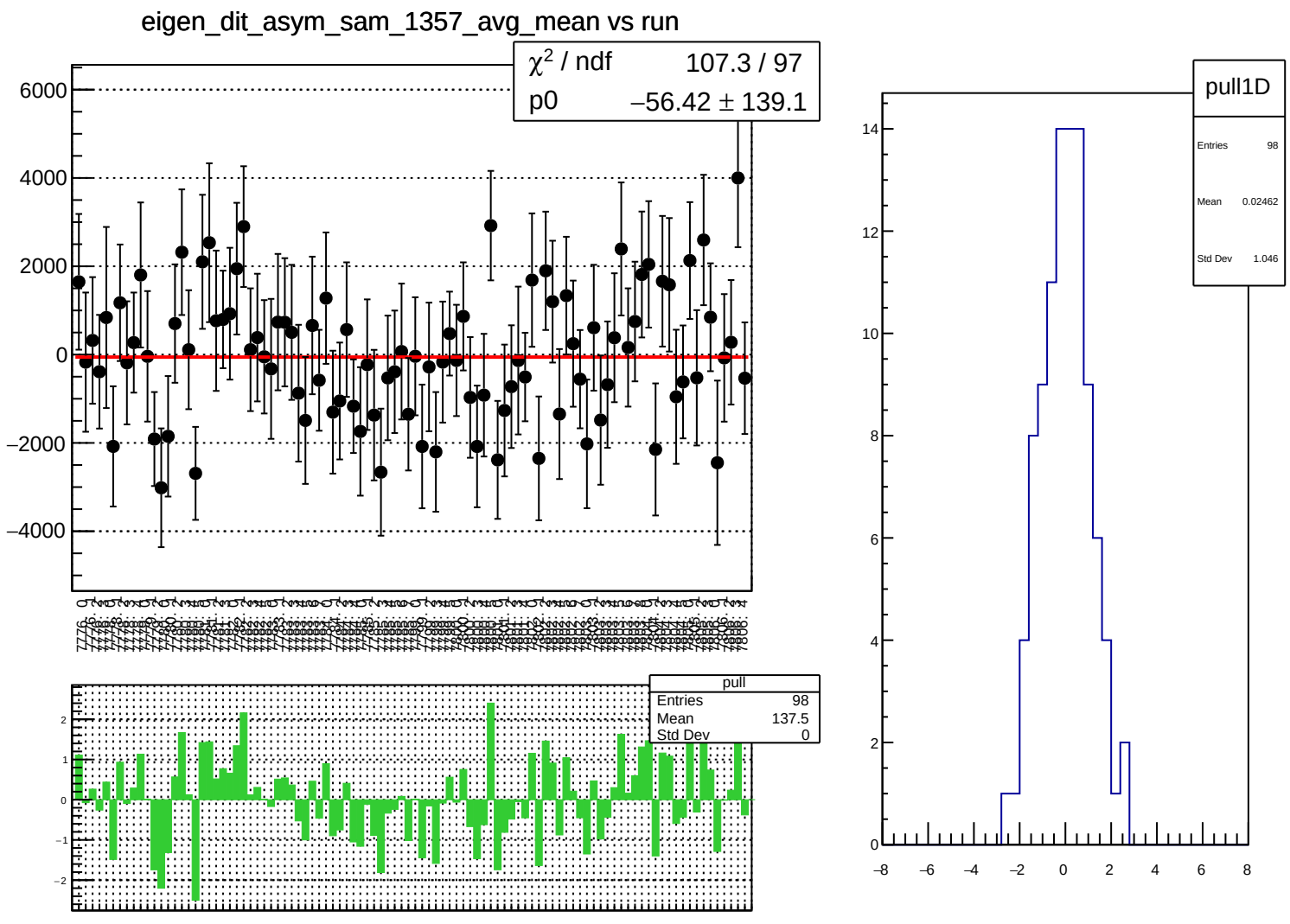

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 107.3 / 97
p0 −56.42 ± 139.1
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 137.5
Std Dev 0
2
1
0
−1
−2

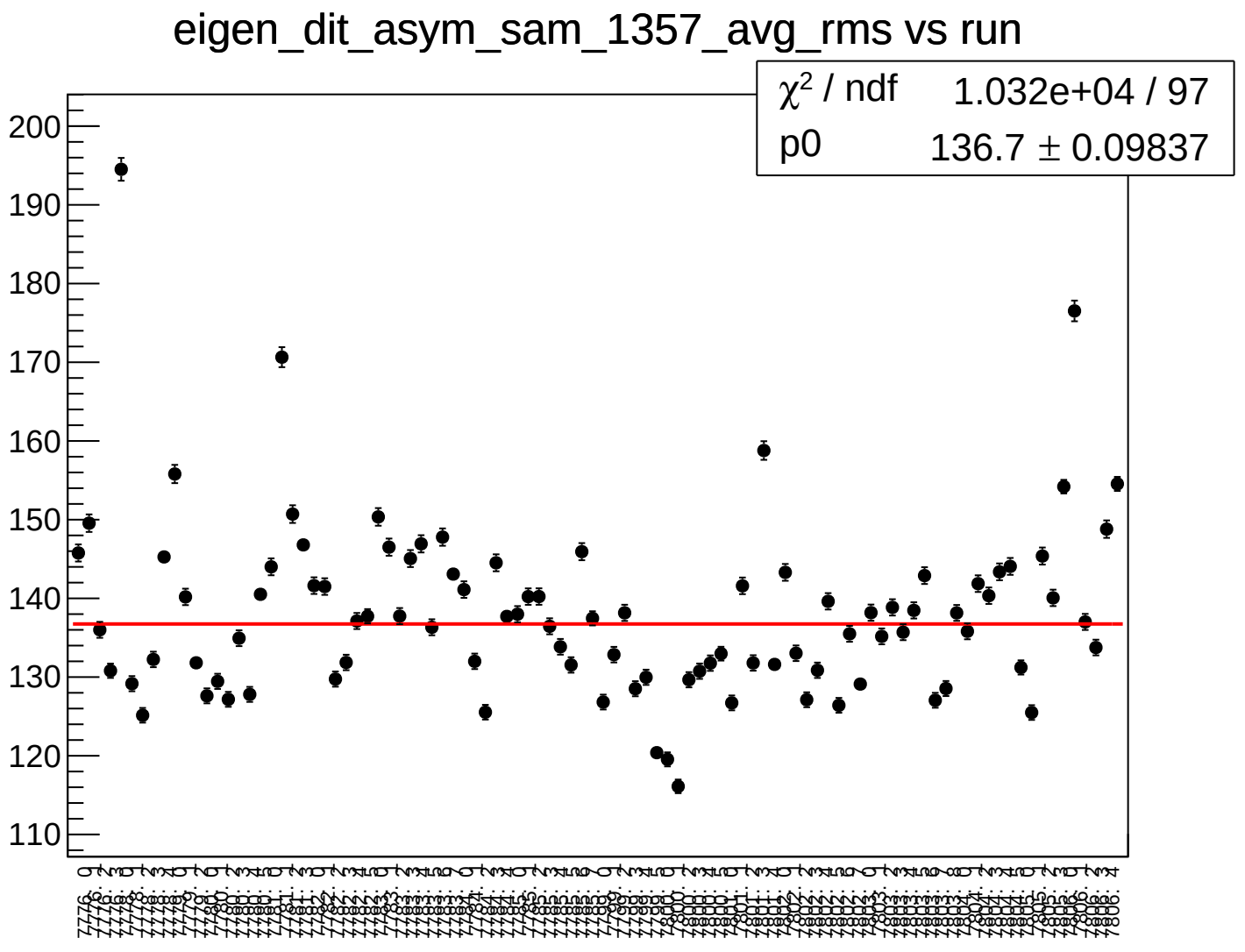

pull1D
Entries 98
Mean 0.02462
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

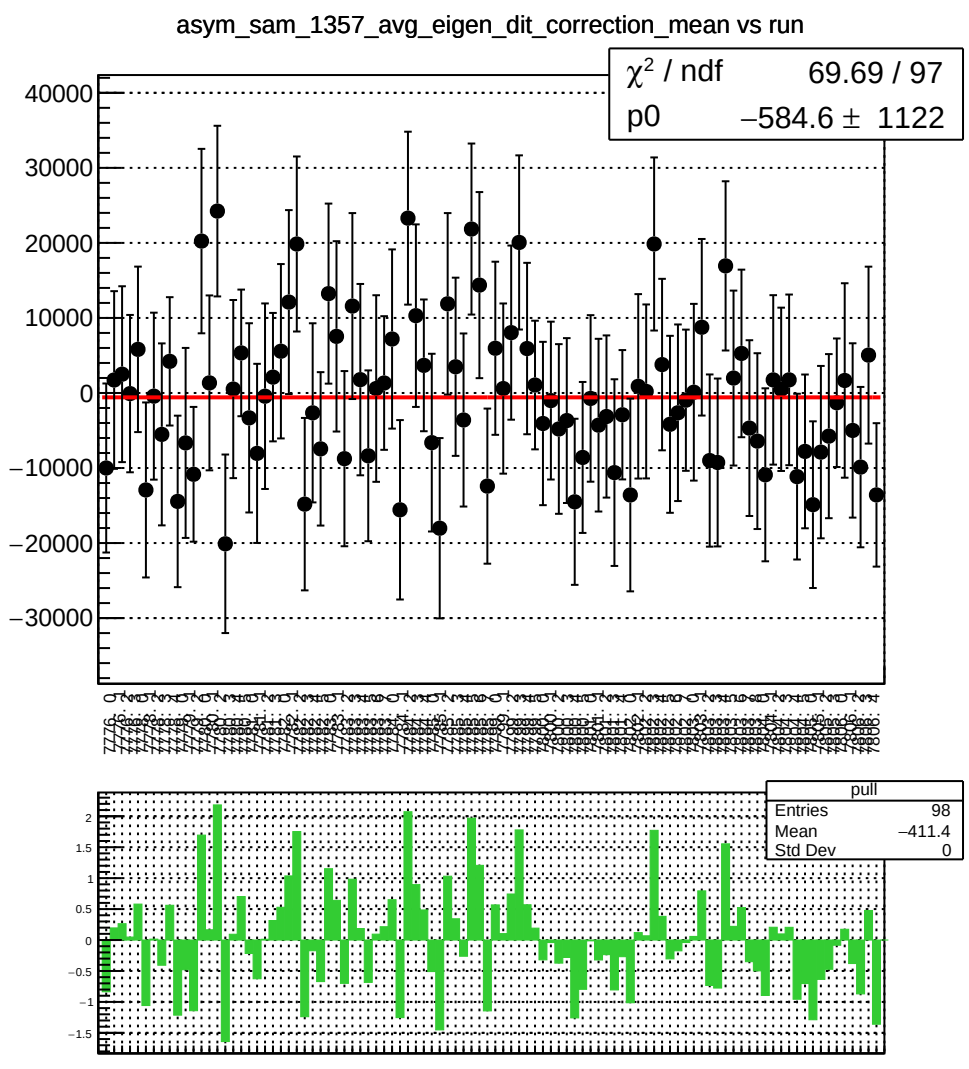

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.032e+04 / 97
p0 136.7 ± 0.09837
200
190
180
170
160
150
140
130
120
110

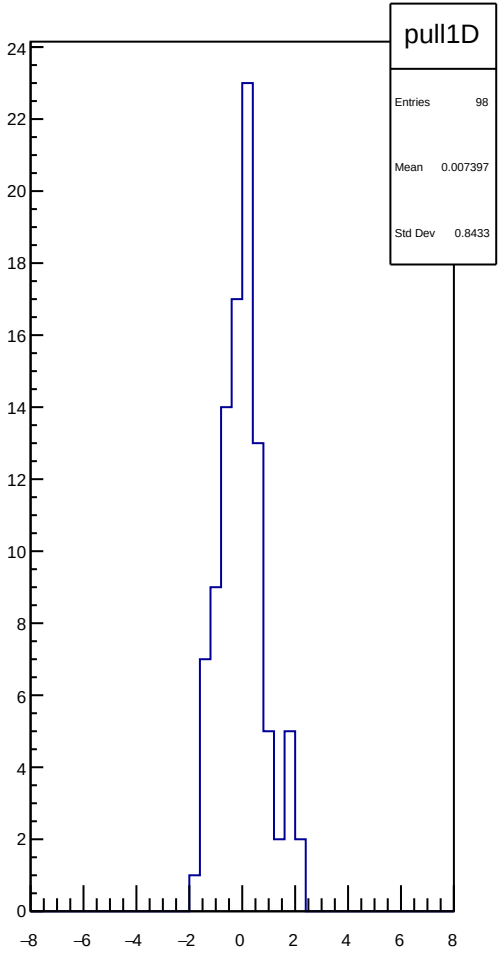

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 69.69 / 97
p0 −584.6 ± 1122
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 98
Mean −411.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.007397
Std Dev 0.8433
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

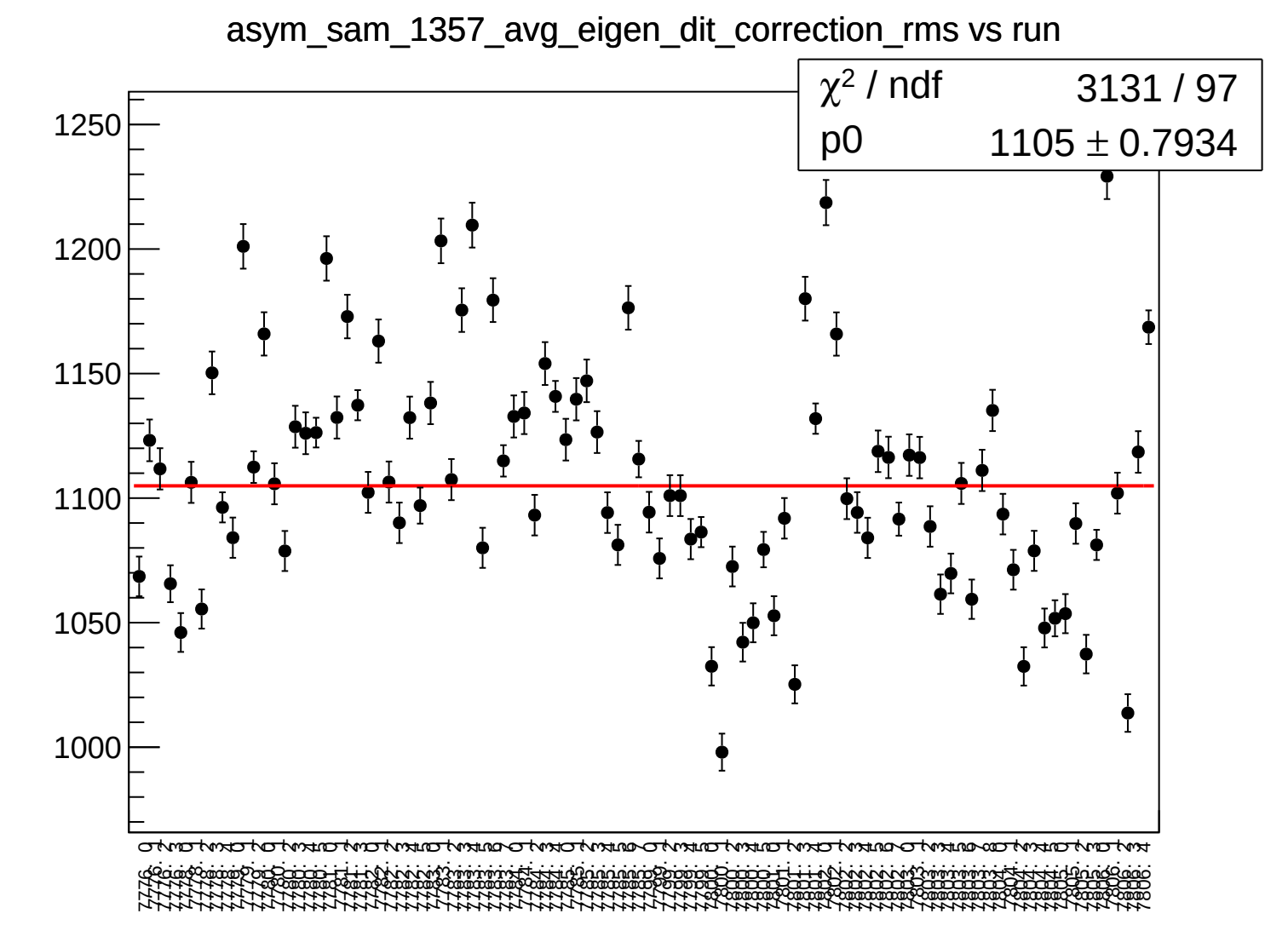

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 3131 / 97
p0 1105 ± 0.7934
1250
1200
1150
1100
1050
1000

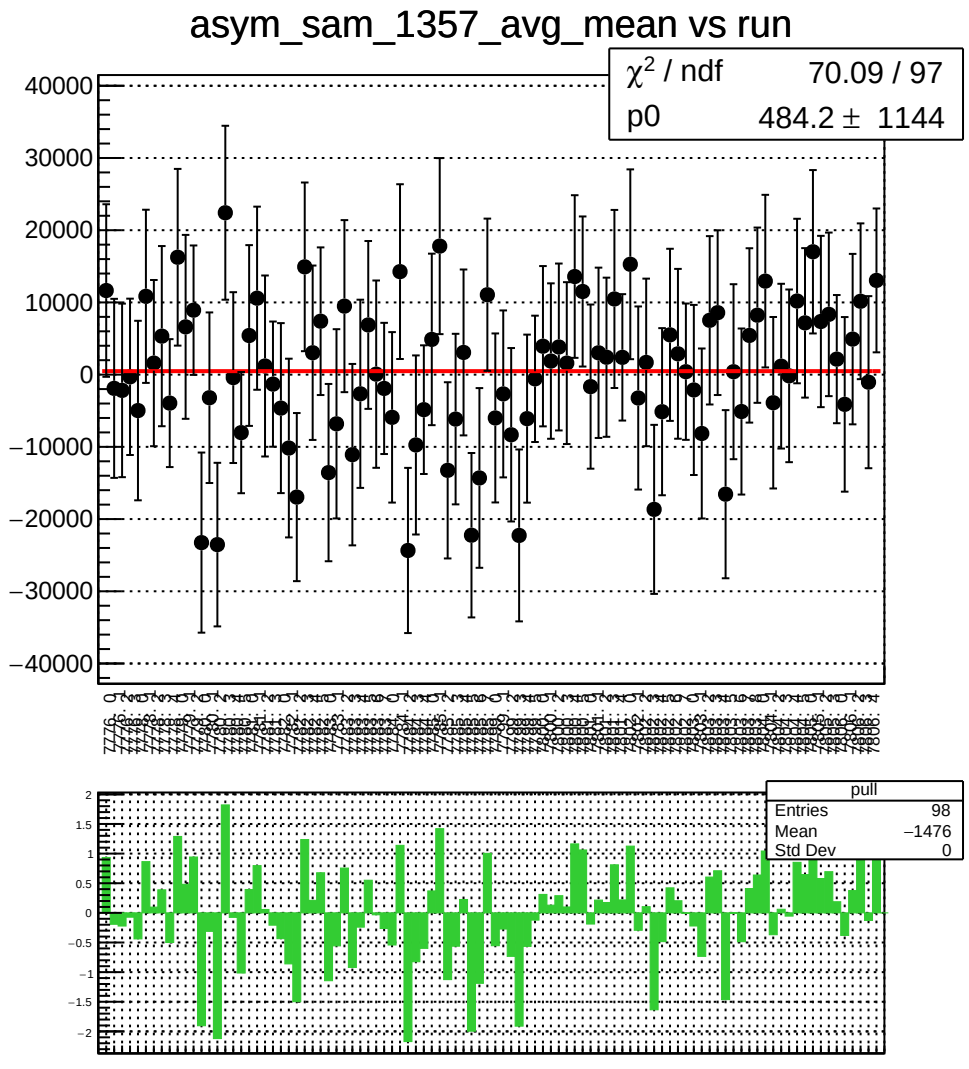

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 107.3 / 97
p0 −56.42 ± 139.1
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 137.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.02462
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

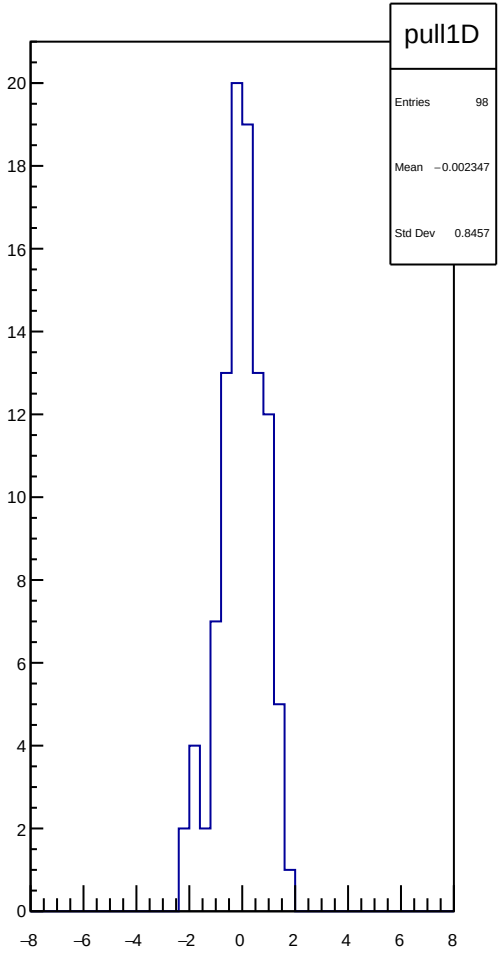

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.032e+04 / 97
p0 136.7 ± 0.09837
200
190
180
170
160
150
140
130
120
110

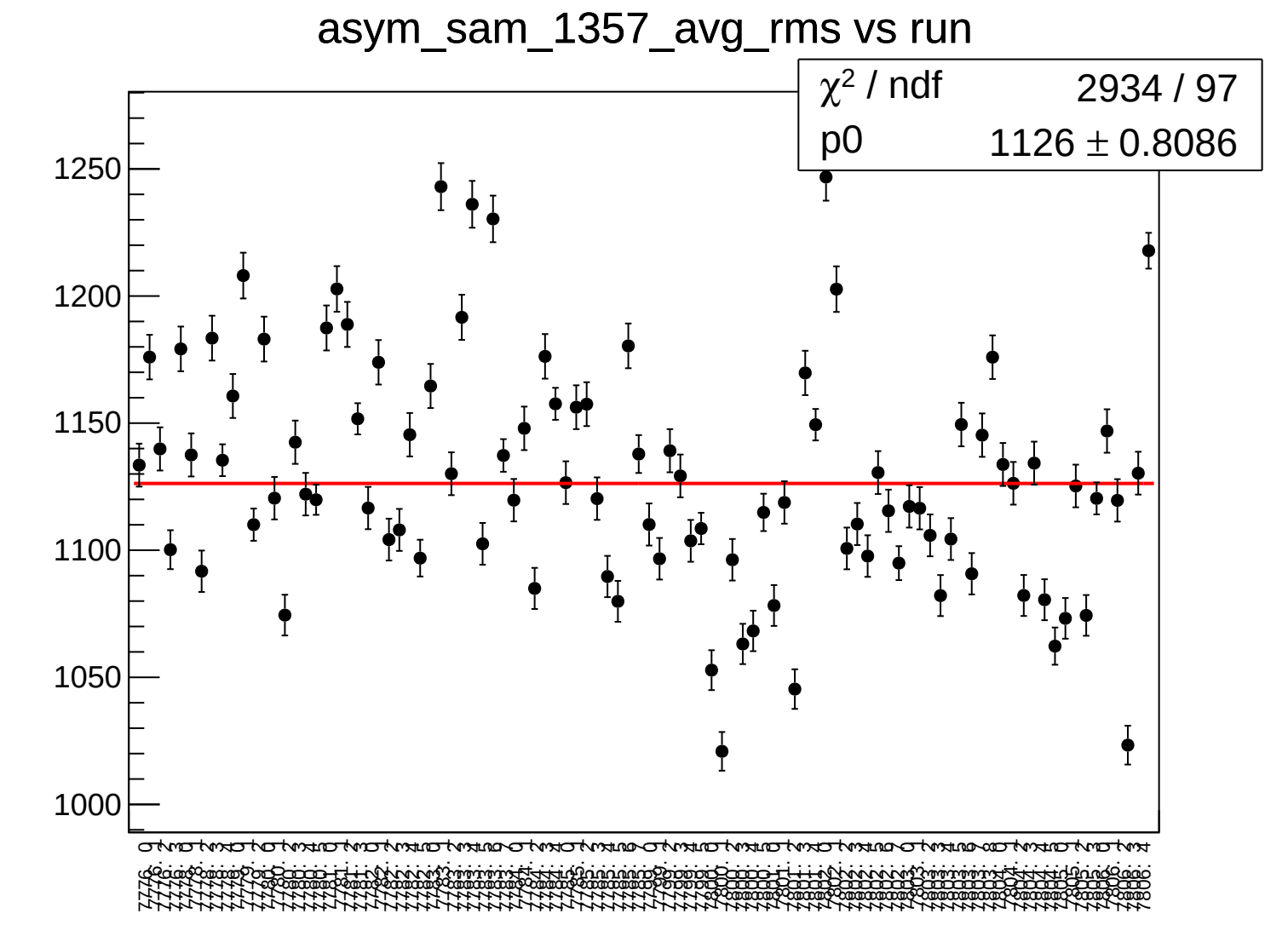

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.69 / 97
p0 −584.6 ± 1122
pull
Entries 98
Mean −411.4
Std Dev 0

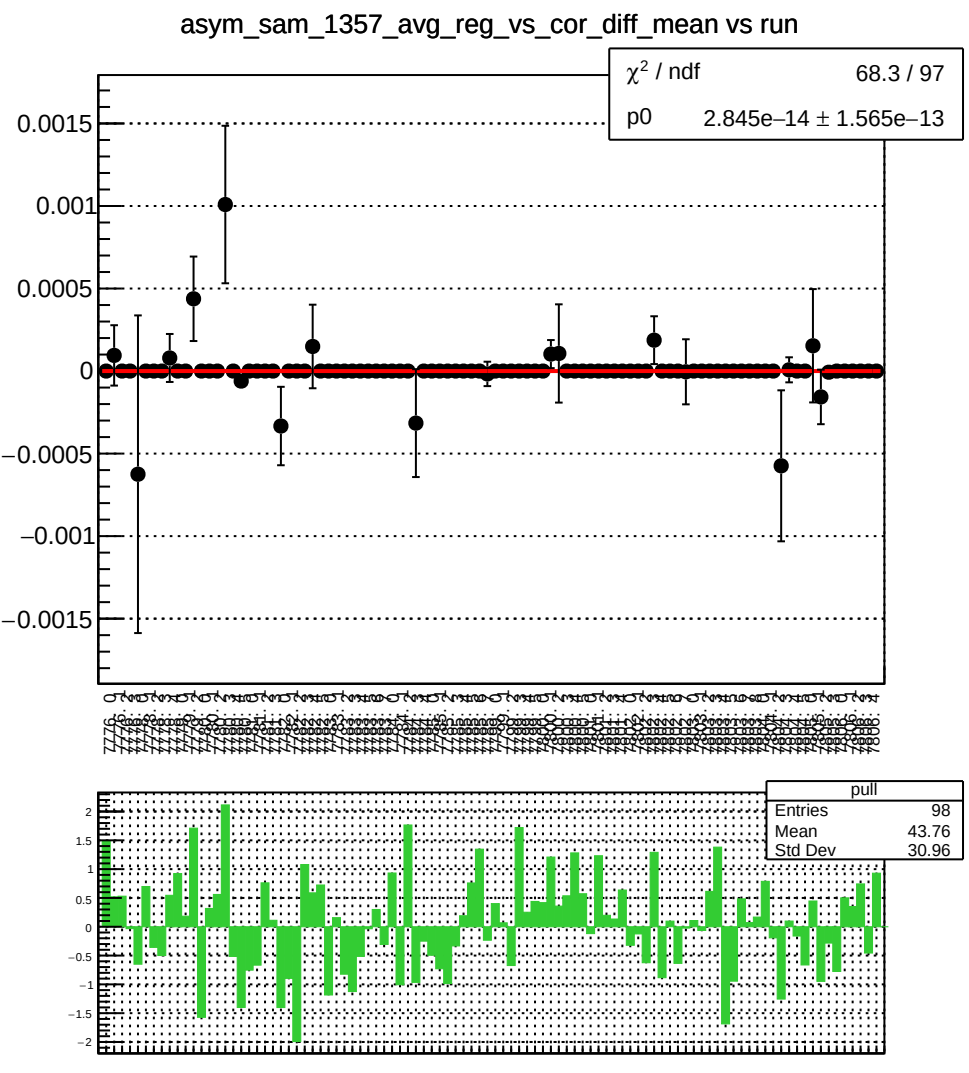

pull1D
Entries 98
Mean 0.007397
Std Dev 0.8433

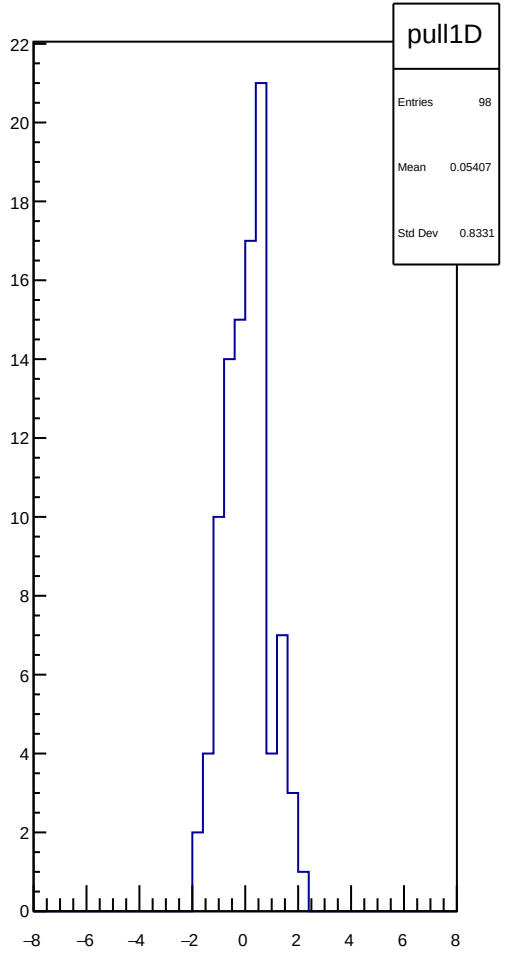

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 3131 / 97
p0 1105 ± 0.7934
1250
1200
1150
1100
1050
1000

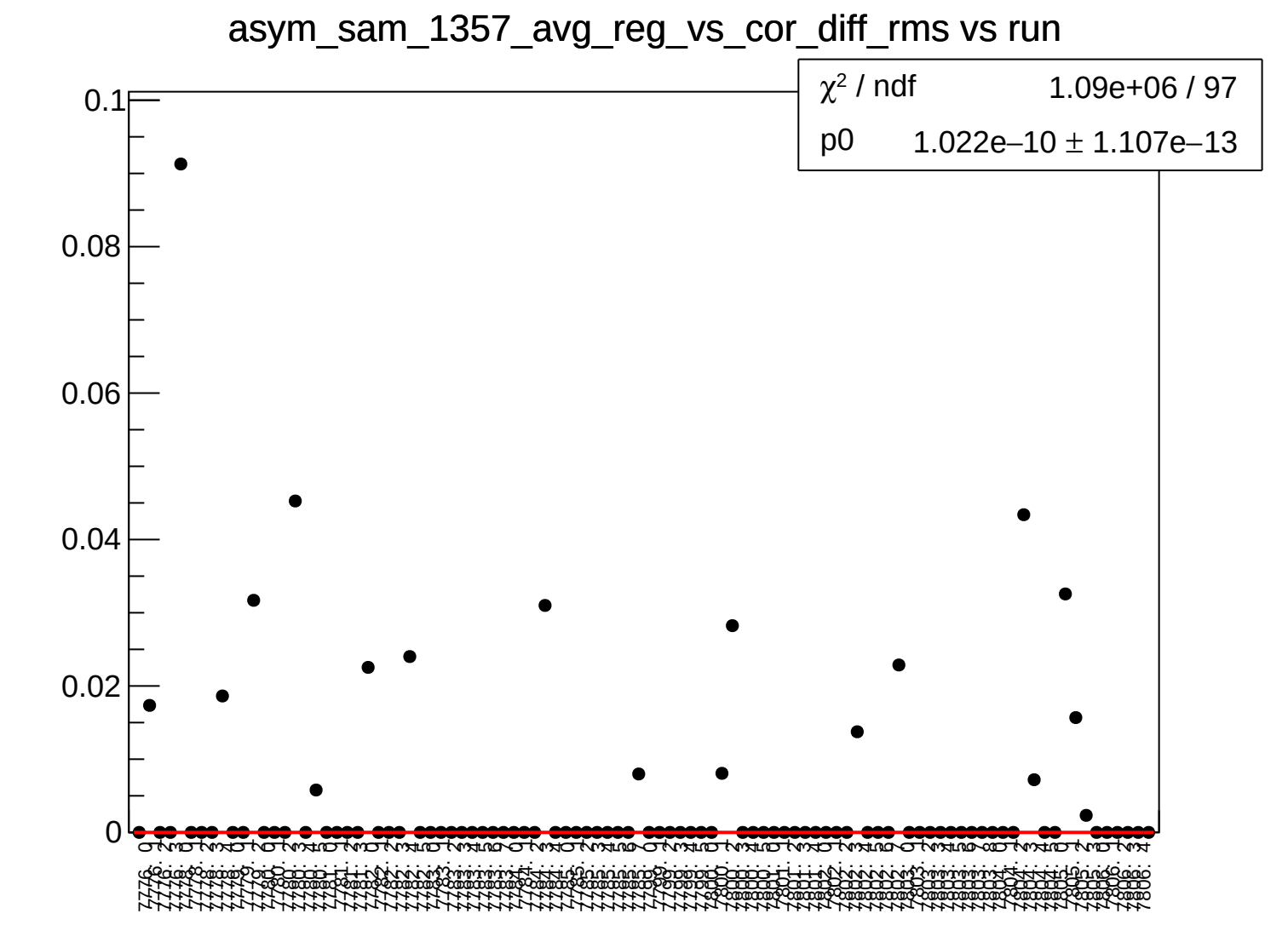

asym_sam_1357_avg_mean vs run
χ² / ndf 70.09 / 97
p0 484.2 ± 1144
pull
Entries 98
Mean −1476
Std Dev 0

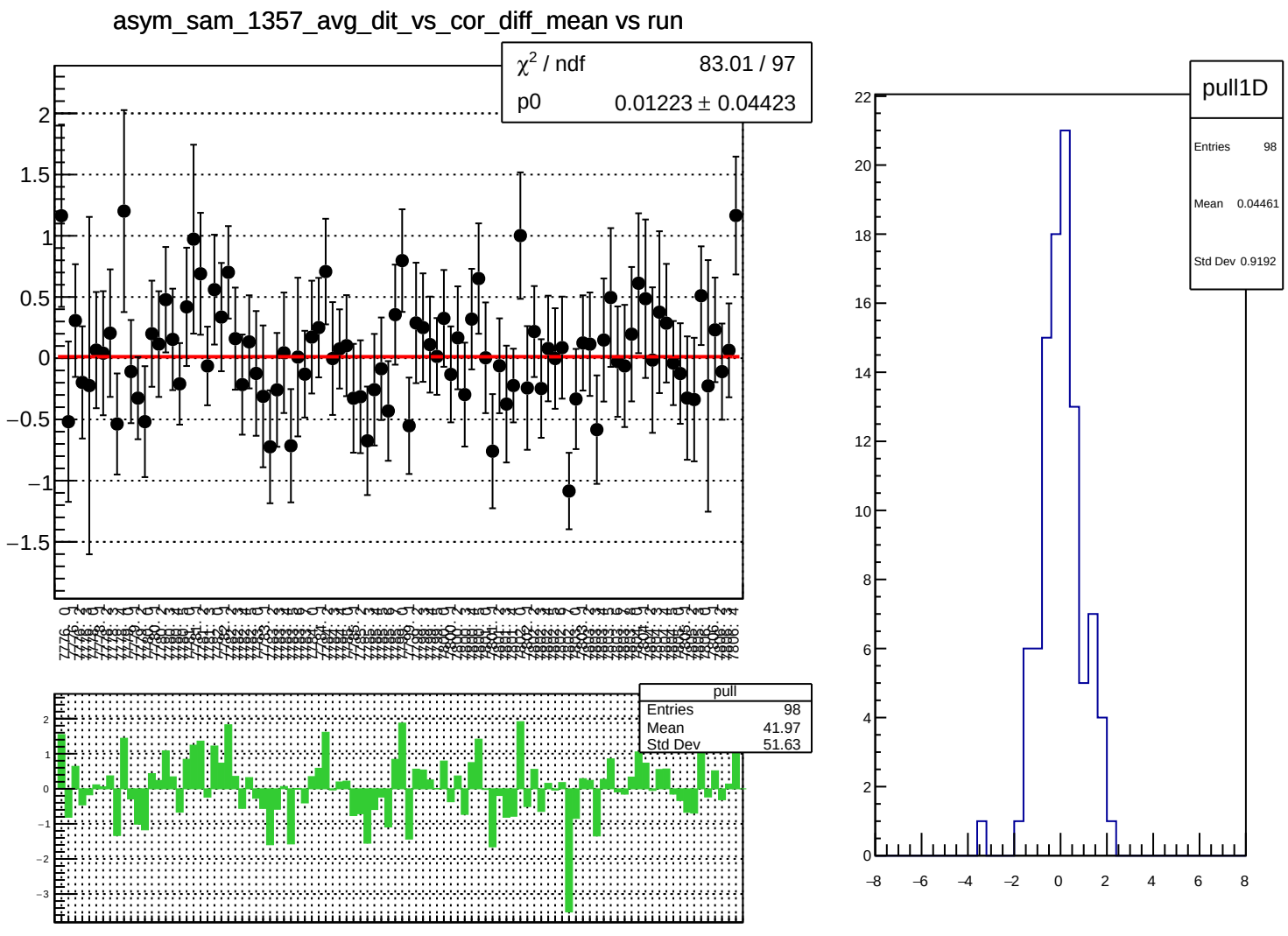

pull1D
Entries 98
Mean −0.002347
Std Dev 0.8457

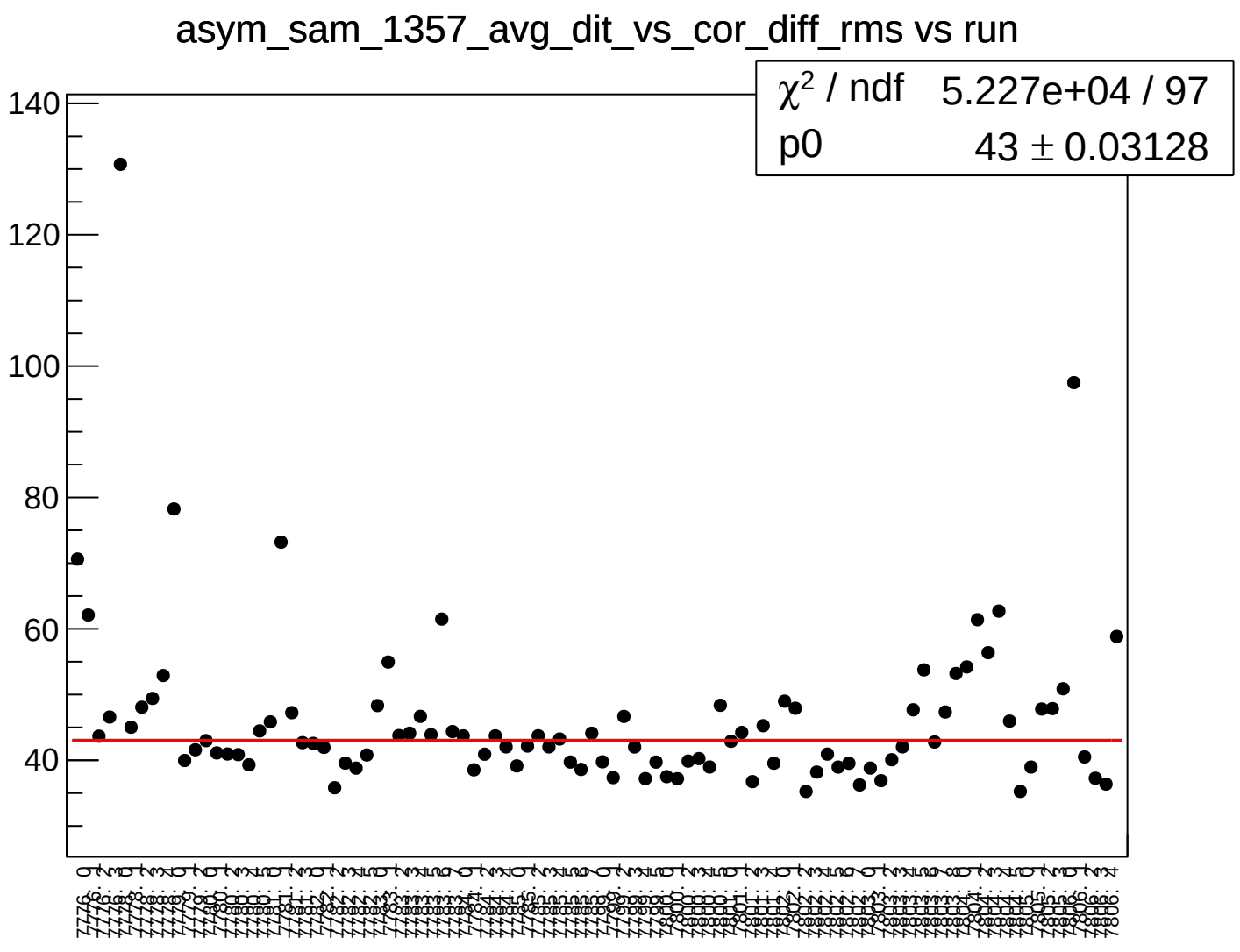

asym_sam_1357_avg_rms vs run
χ² / ndf 2934 / 97
p0 1126 ± 0.8086
1250
1200
1150
1100
1050
1000

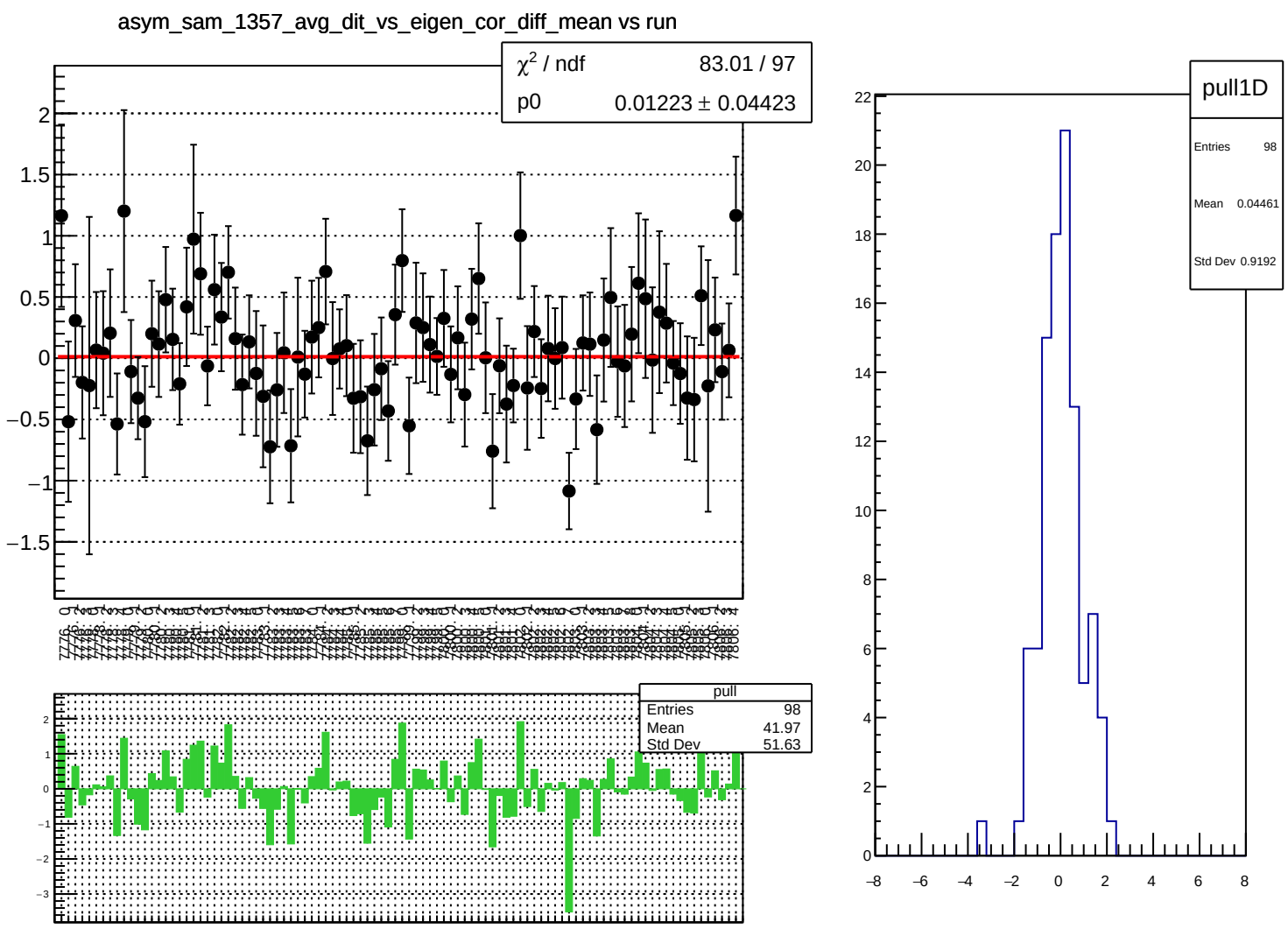

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.3 / 97
p0 2.845e−14 ± 1.565e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 98
Mean 43.76
Std Dev 30.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

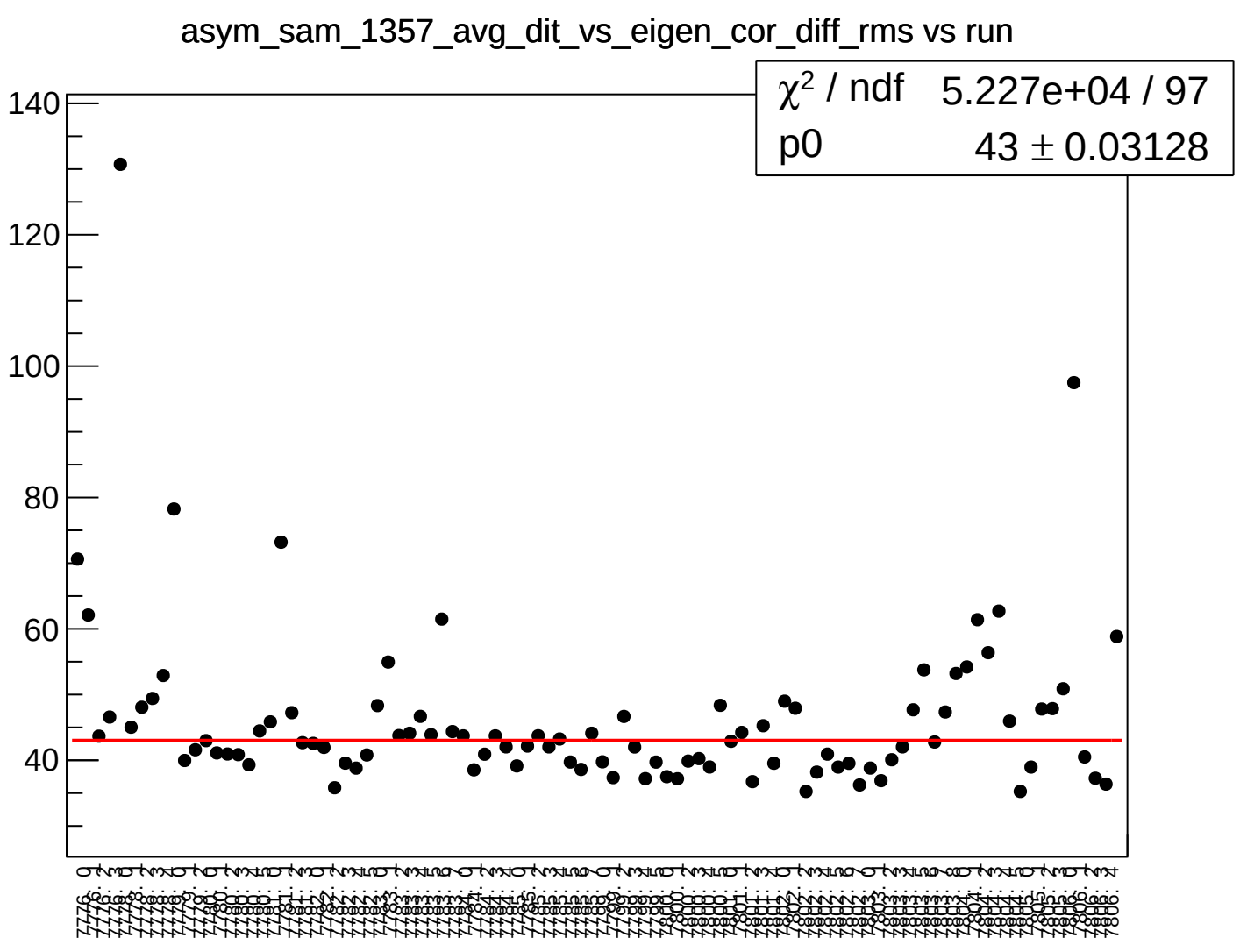

pull1D
Entries 98
Mean 0.05407
Std Dev 0.8331
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

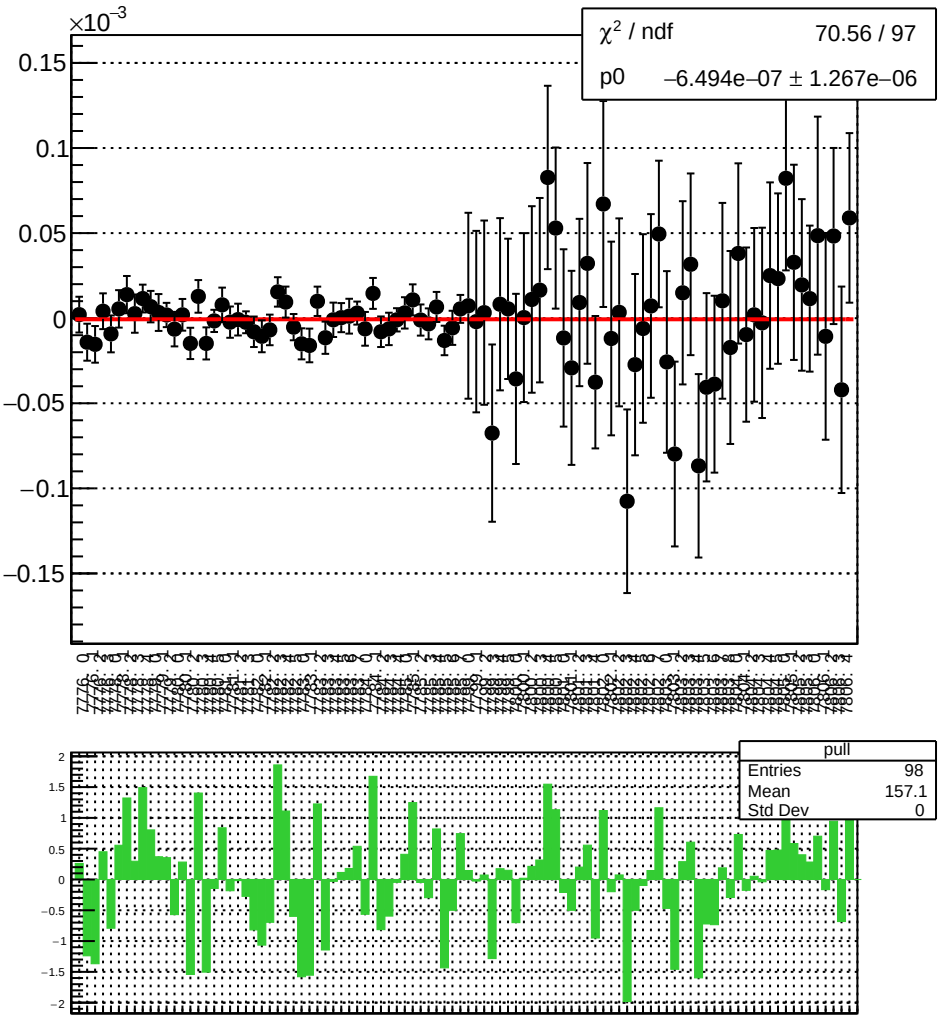

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 97
p0 1.022e−10 ± 1.107e−13
0.1
0.08
0.06
0.04
0.02
0

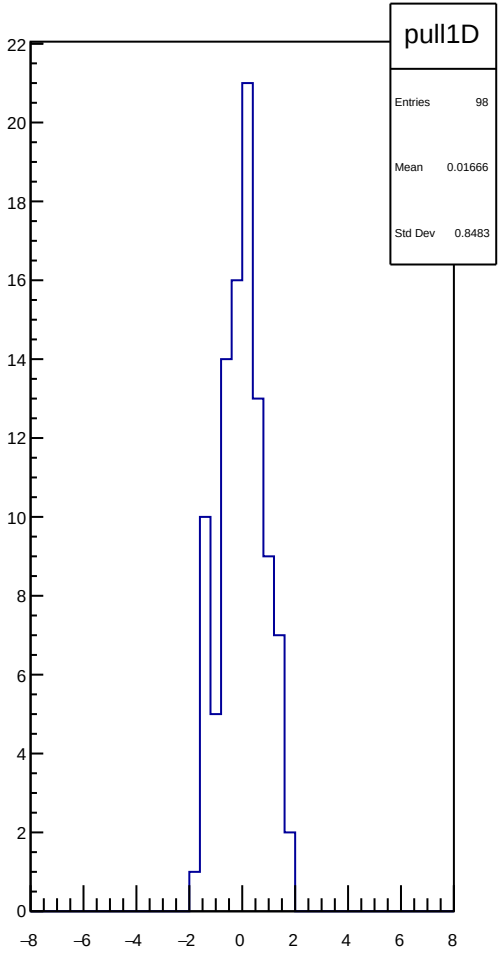

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.01 / 97
p0 0.01223 ± 0.04423
pull
Entries 98
Mean 41.97
Std Dev 51.63
pull1D
Entries 98
Mean 0.04461
Std Dev 0.9192

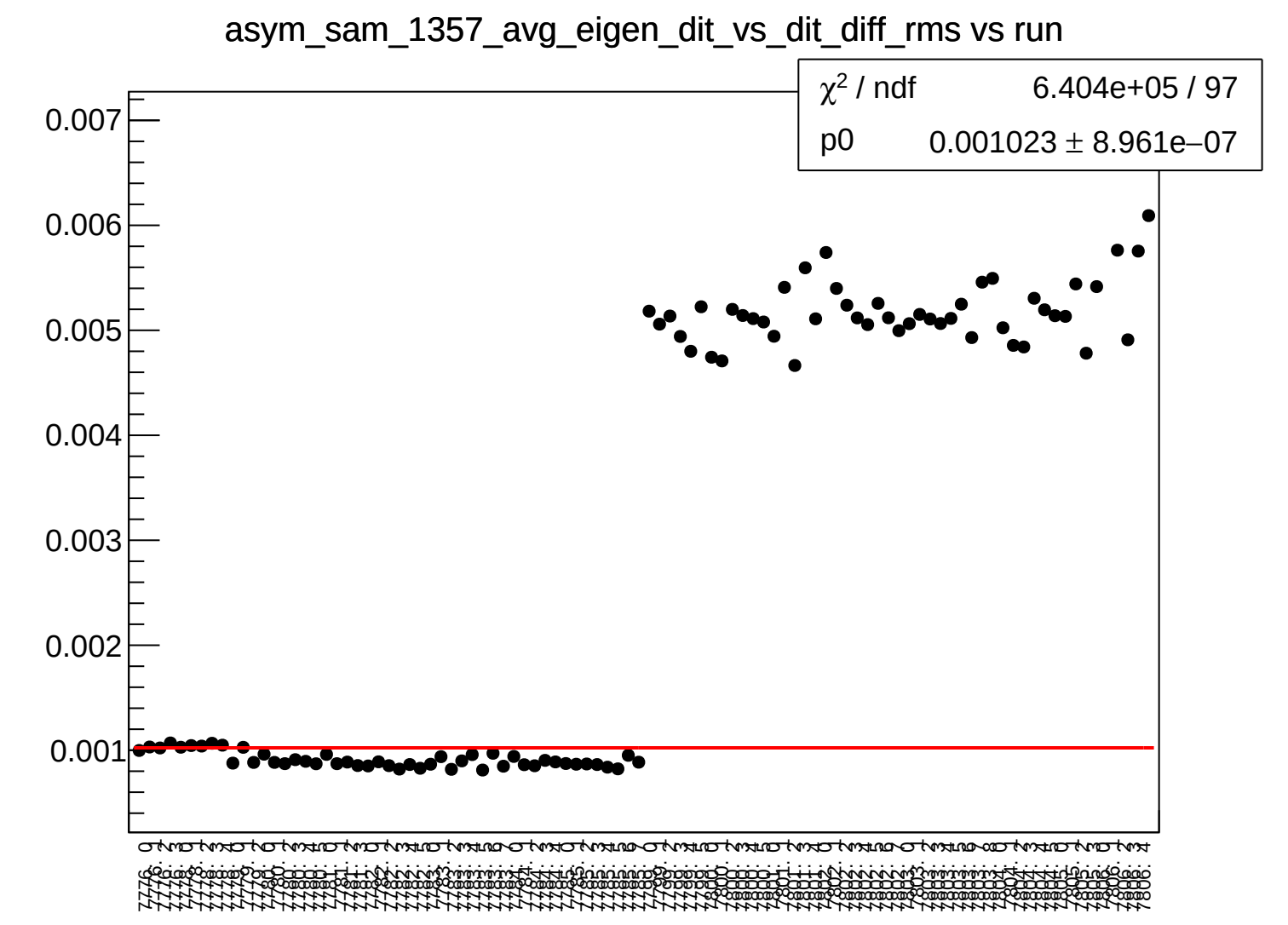

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.227e+04 / 97
p0 43 ± 0.03128
140
120
100
80
60
40

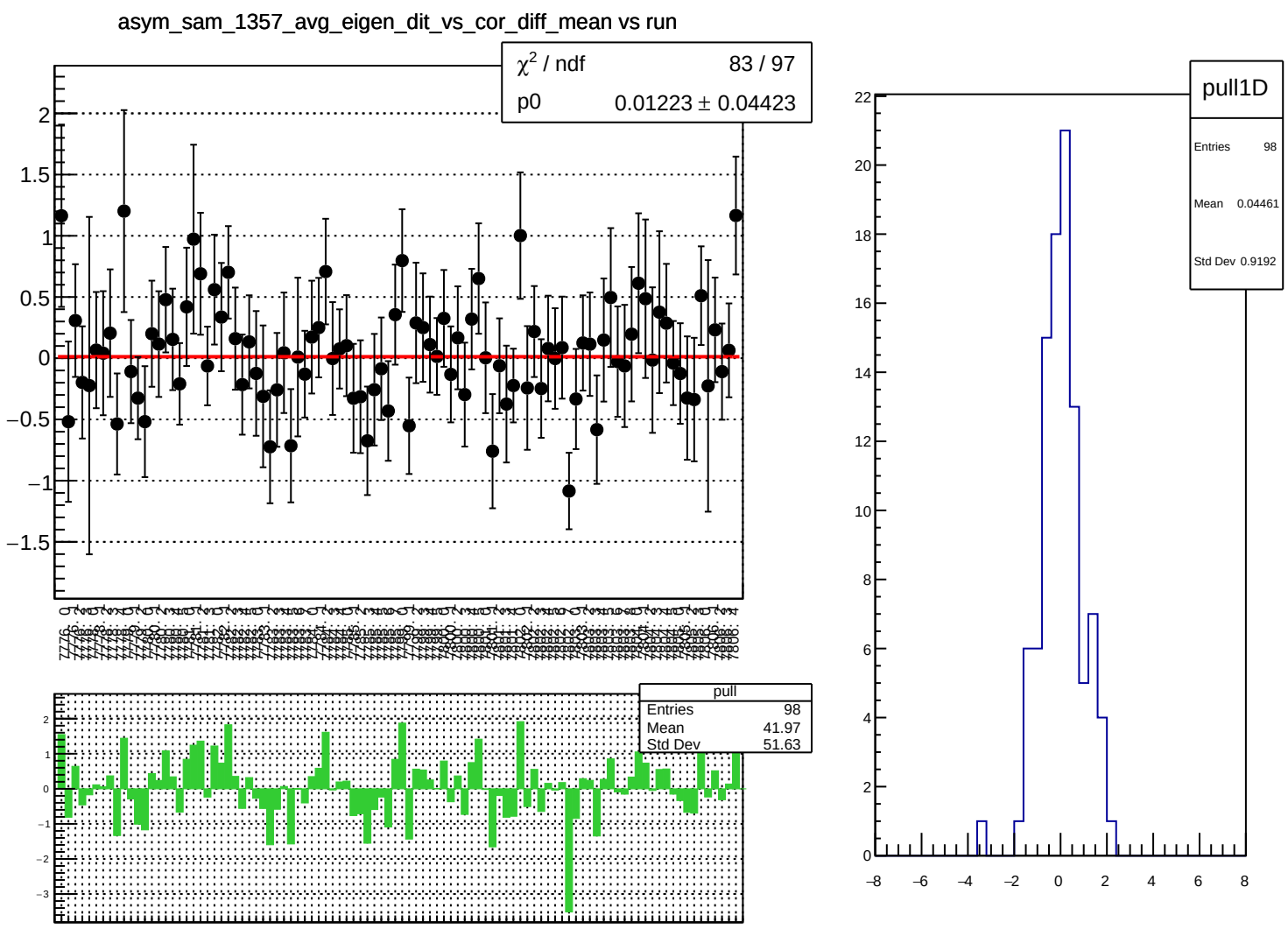

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.01 / 97
p0 0.01223 ± 0.04423
pull
Entries 98
Mean 41.97
Std Dev 51.63
pull1D
Entries 98
Mean 0.04461
Std Dev 0.9192

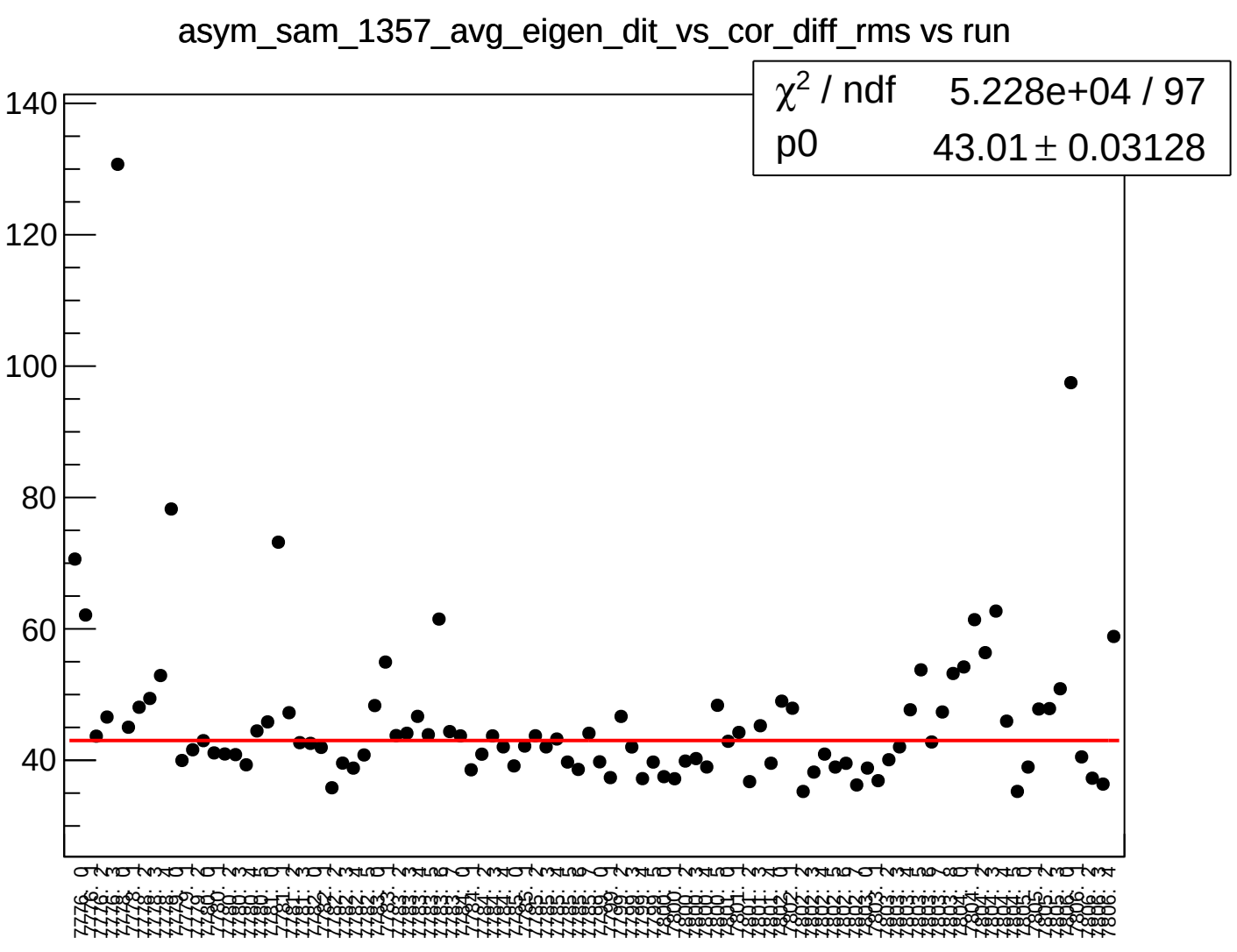

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.227e+04 / 97
p0 43 ± 0.03128
140
120
100
80
60
40

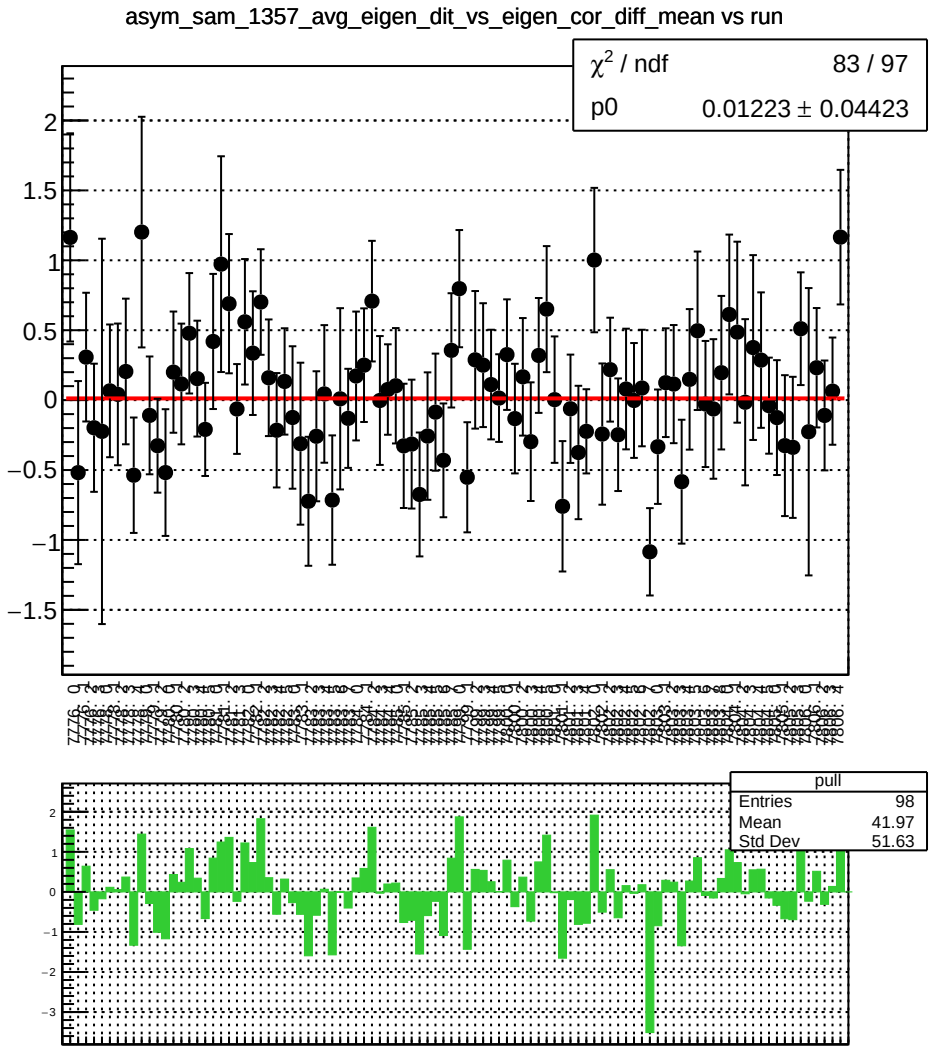

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.56 / 97
p0 −6.494e−07 ± 1.267e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 98
Mean 157.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

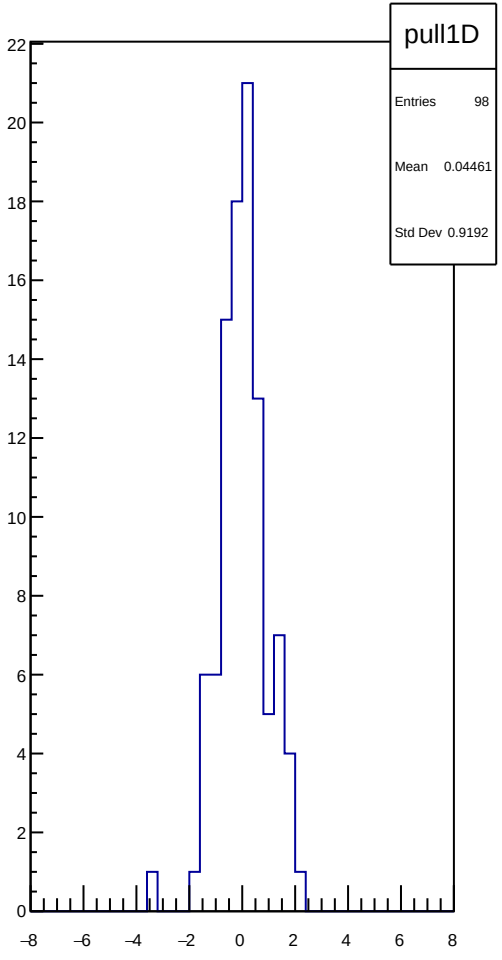

pull1D
Entries 98
Mean 0.01666
Std Dev 0.8483
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

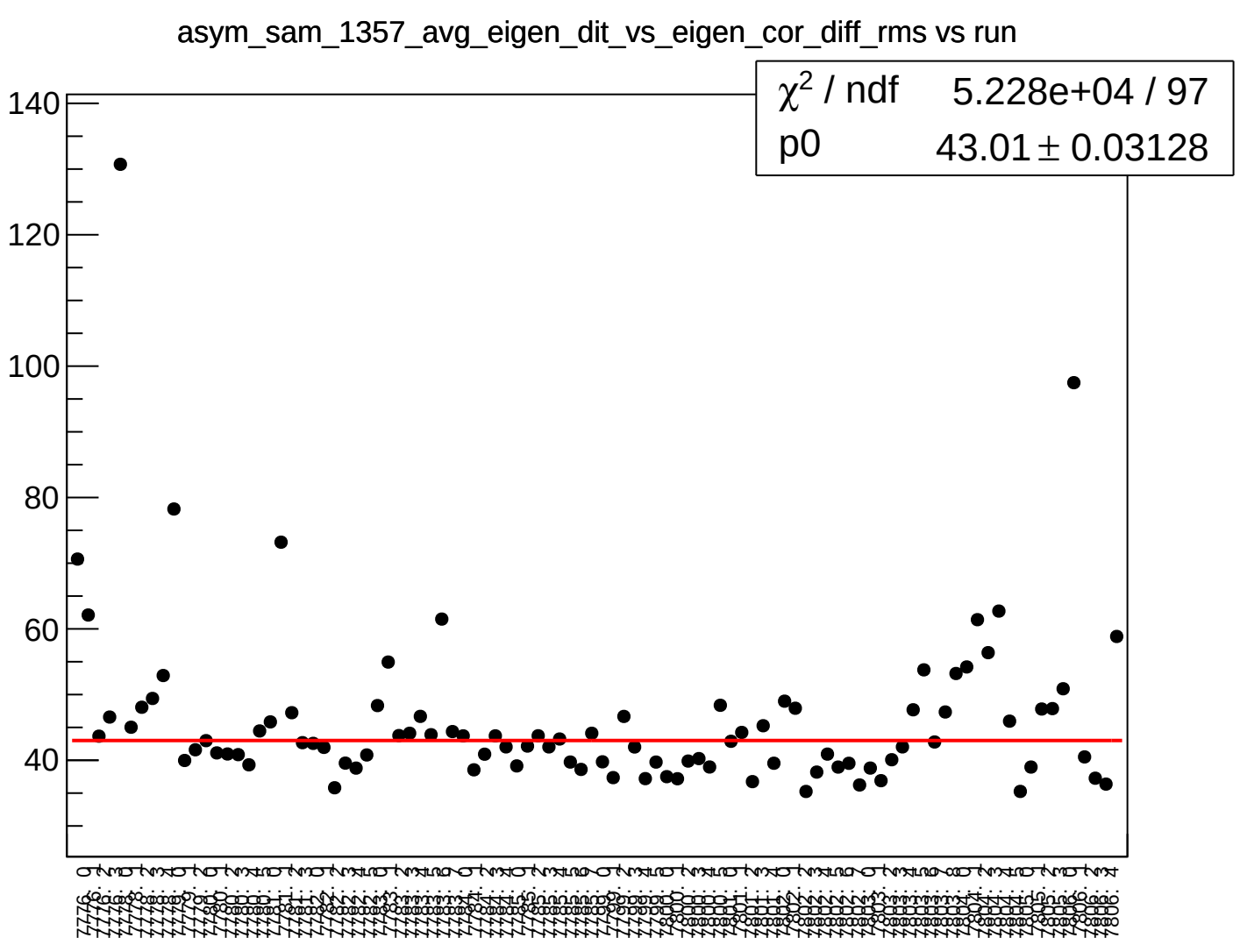

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.404e+05 / 97
p0 0.001023 ± 8.961e−07
0.007
0.006
0.005
0.004
0.003
0.002
0.001

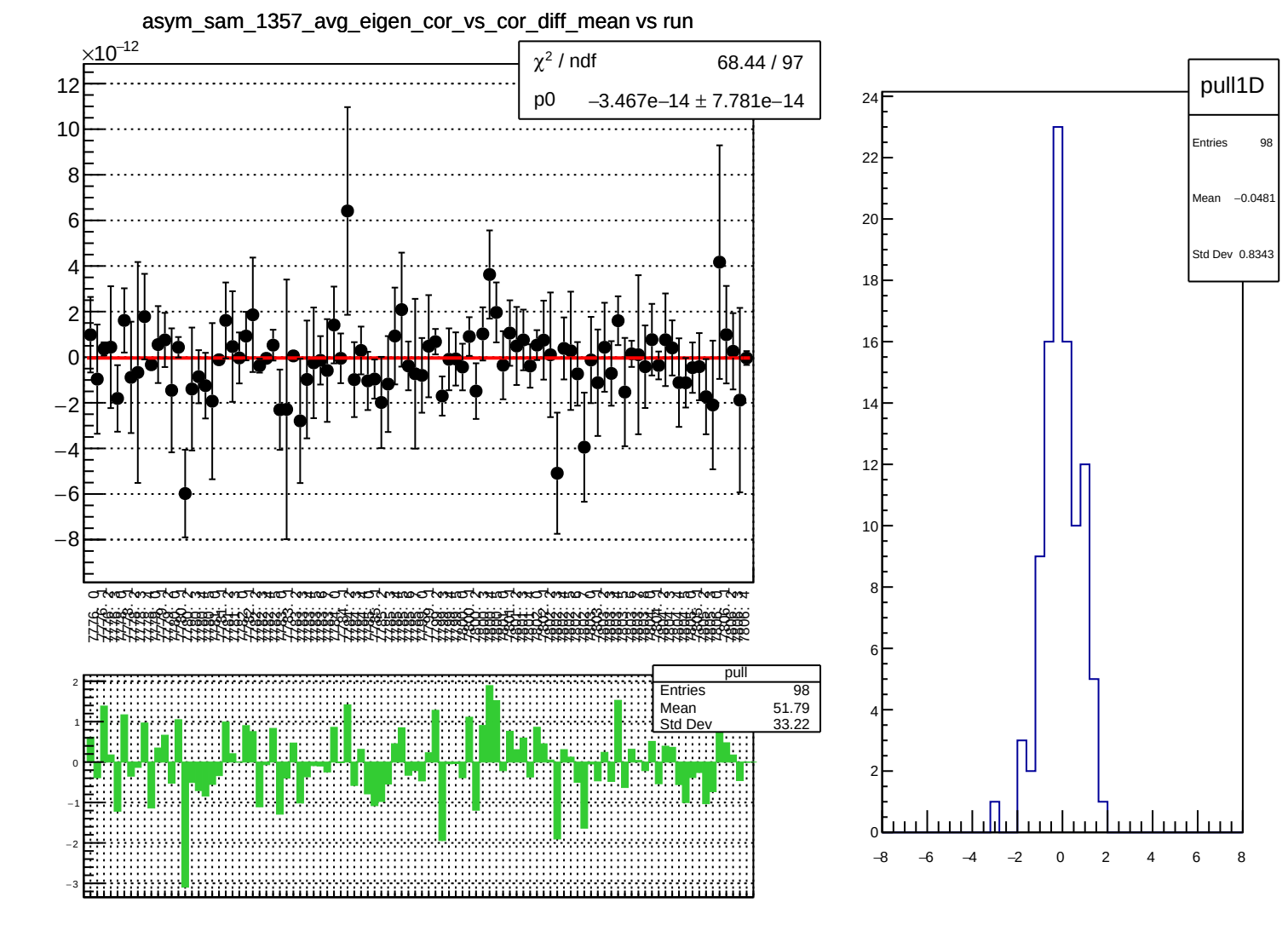

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83 / 97
p0 0.01223 ± 0.04423
pull
Entries 98
Mean 41.97
Std Dev 51.63
pull1D
Entries 98
Mean 0.04461
Std Dev 0.9192

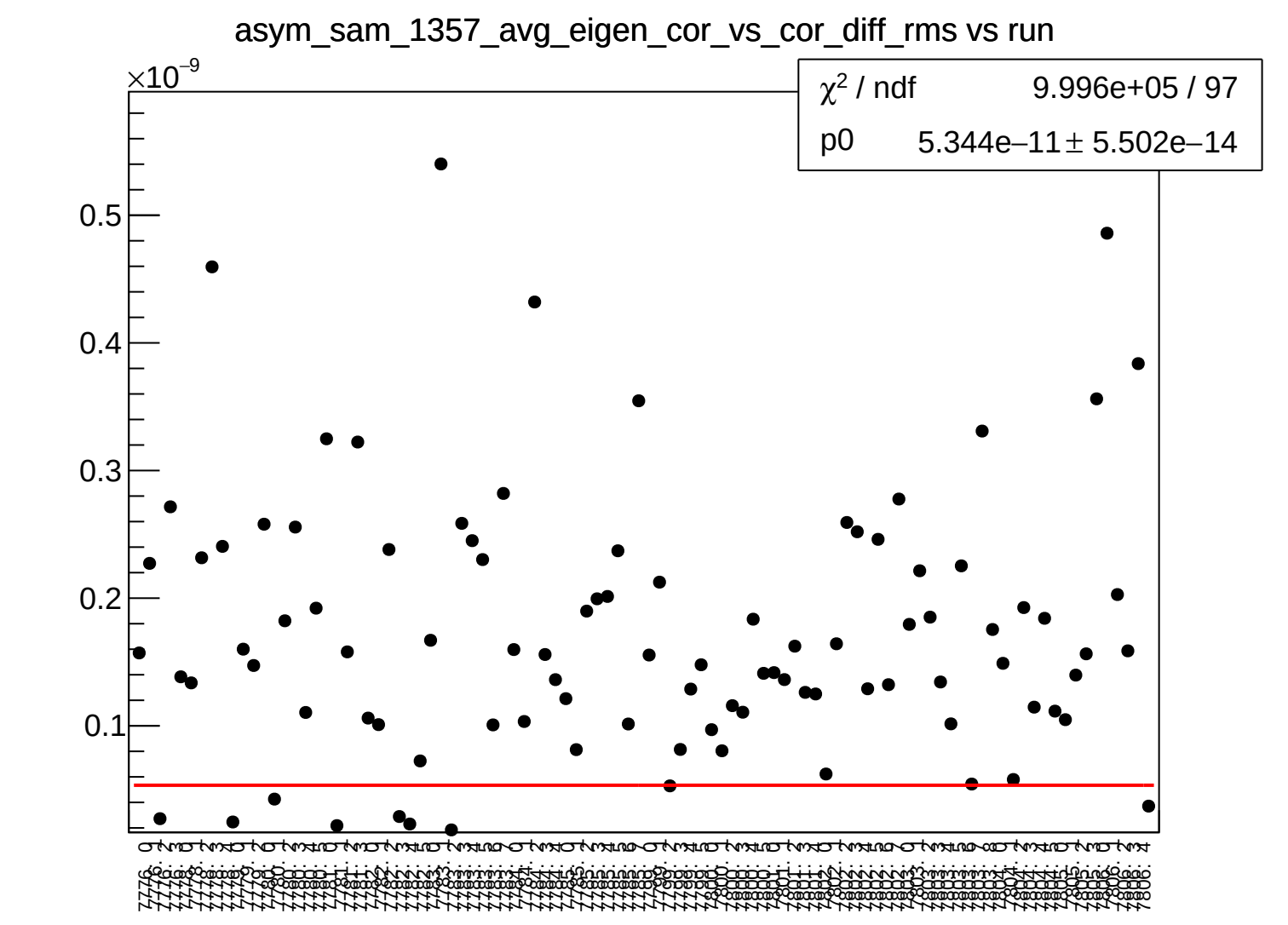

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.228e+04 / 97
p0 43.01 ± 0.03128
140
120
100
80
60
40

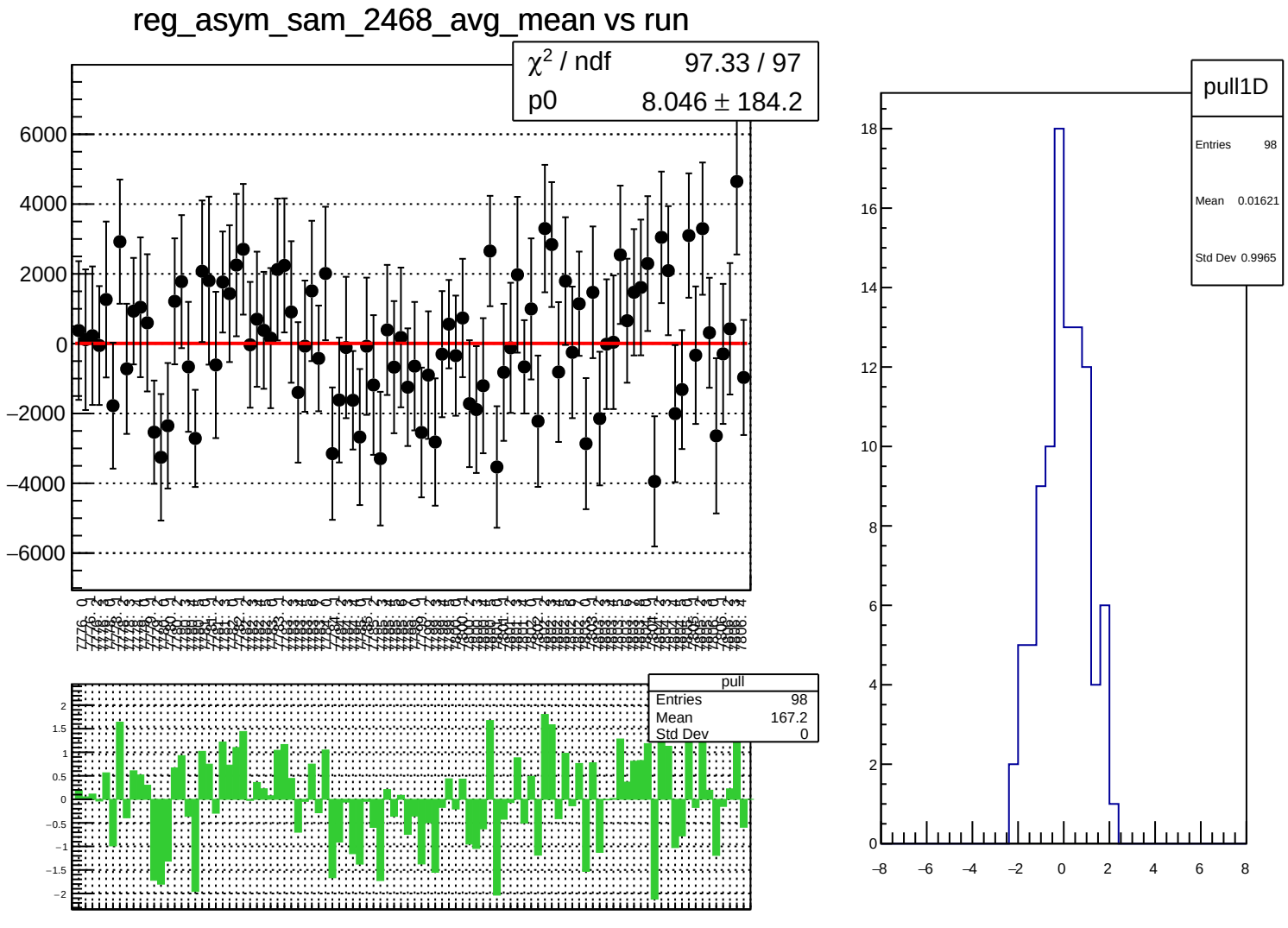

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83 / 97
p0 0.01223 ± 0.04423
pull
Entries 98
Mean 41.97
Std Dev 51.63

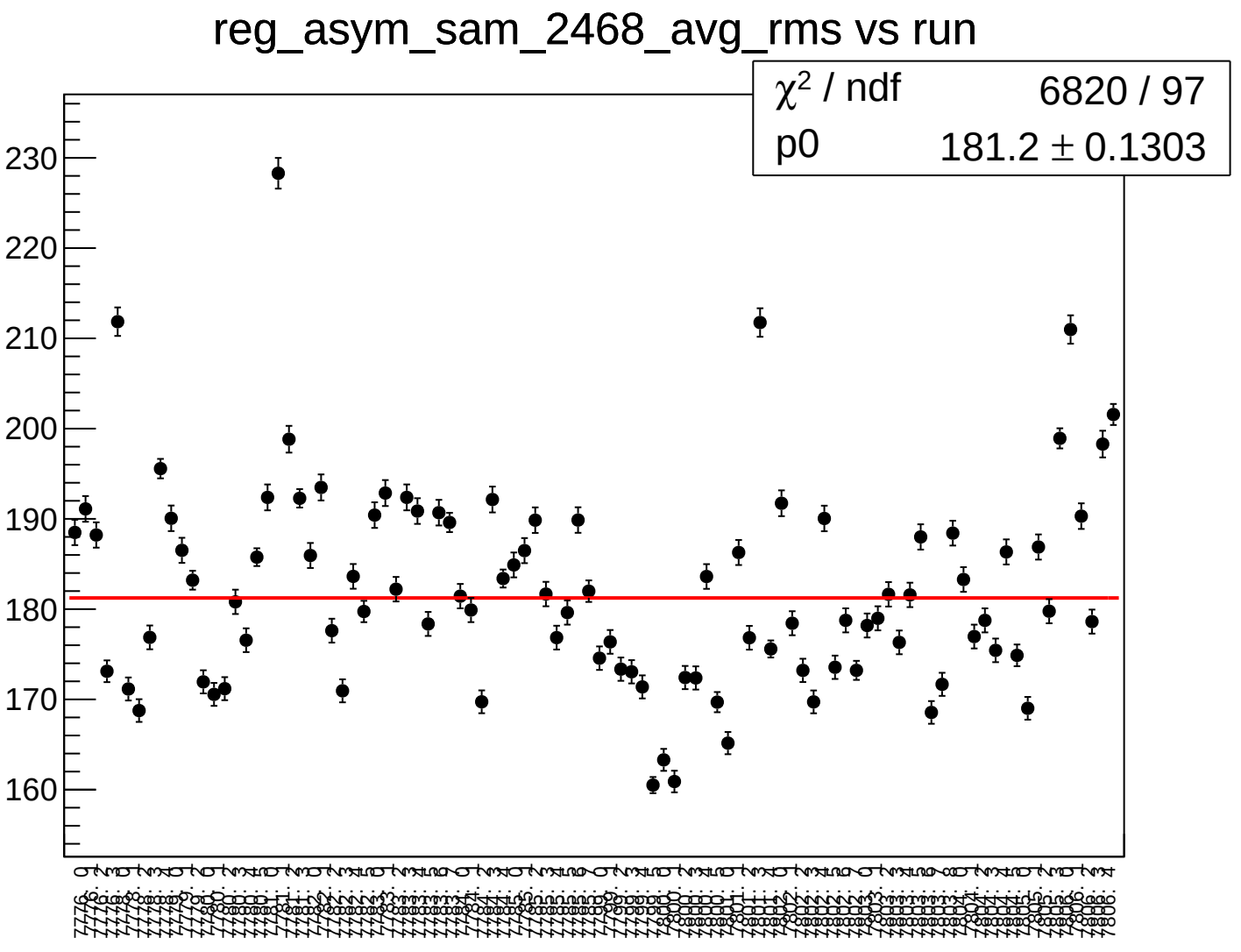

pull1D
Entries 98
Mean 0.04461
Std Dev 0.9192

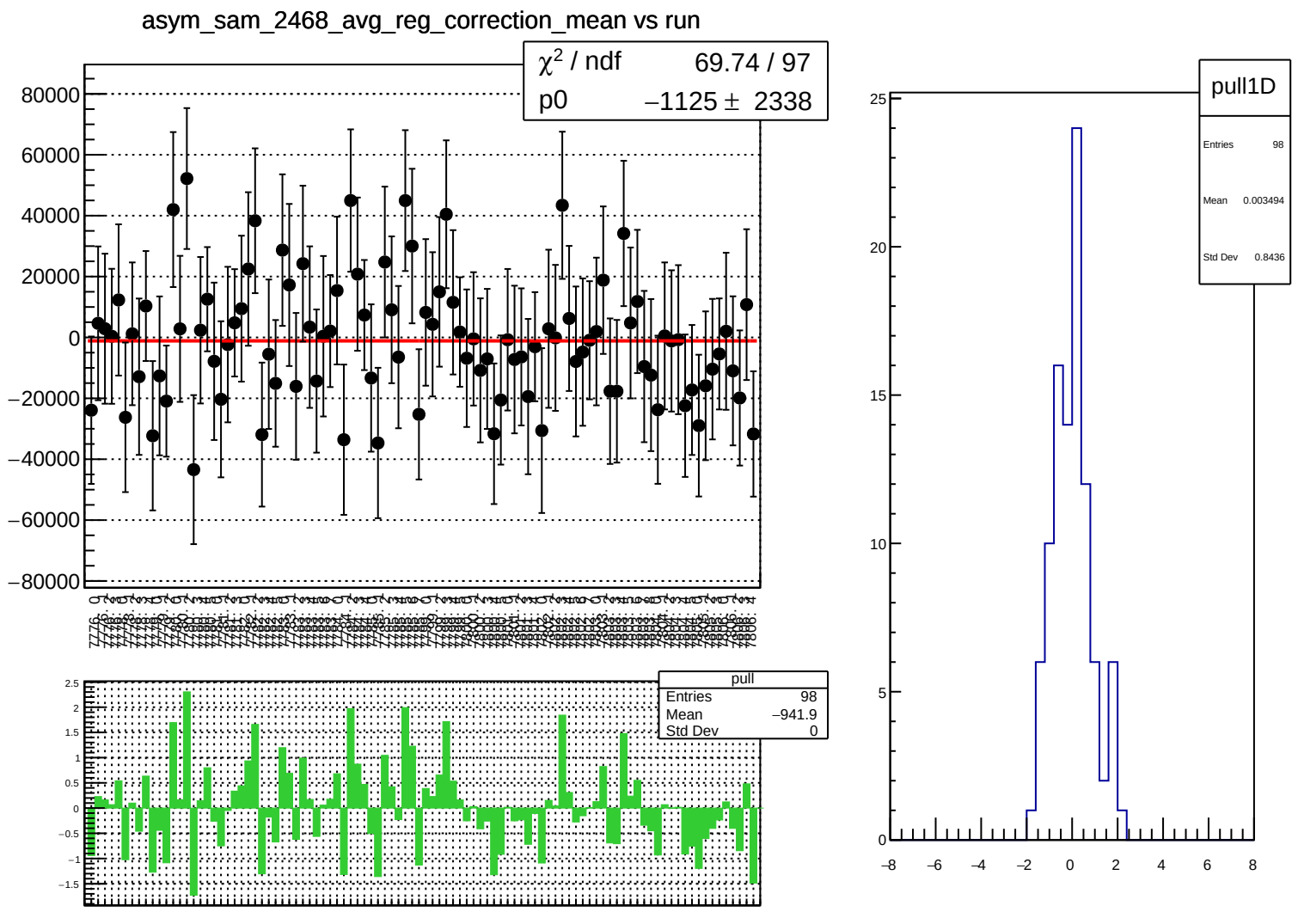

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.228e+04 / 97
p0 43.01 ± 0.03128
140
120
100
80
60
40

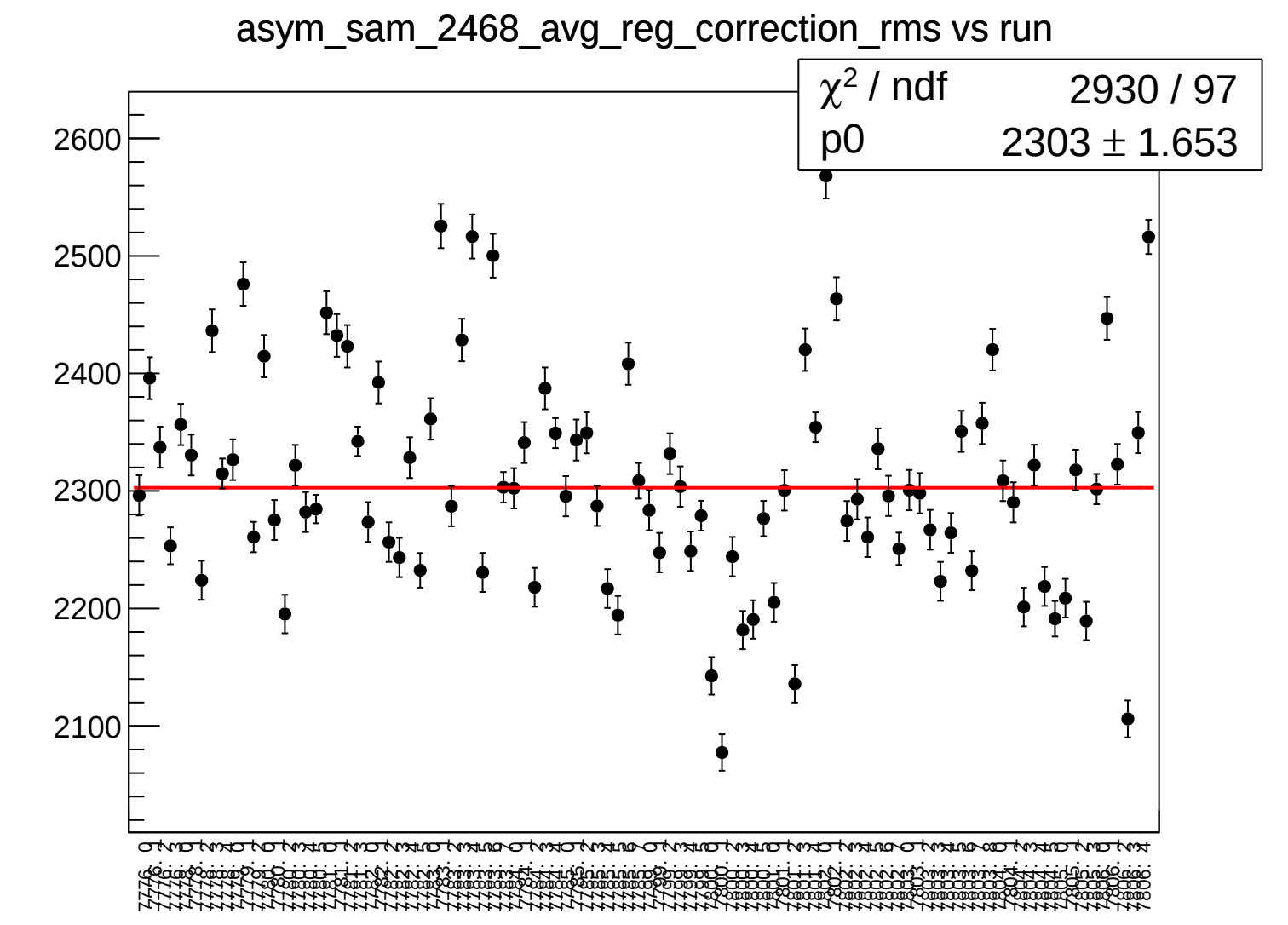

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.44 / 97
p0 −3.467e−14 ± 7.781e−14
pull
Entries 98
Mean 51.79
Std Dev 33.22
pull1D
Entries 98
Mean −0.0481
Std Dev 0.8343

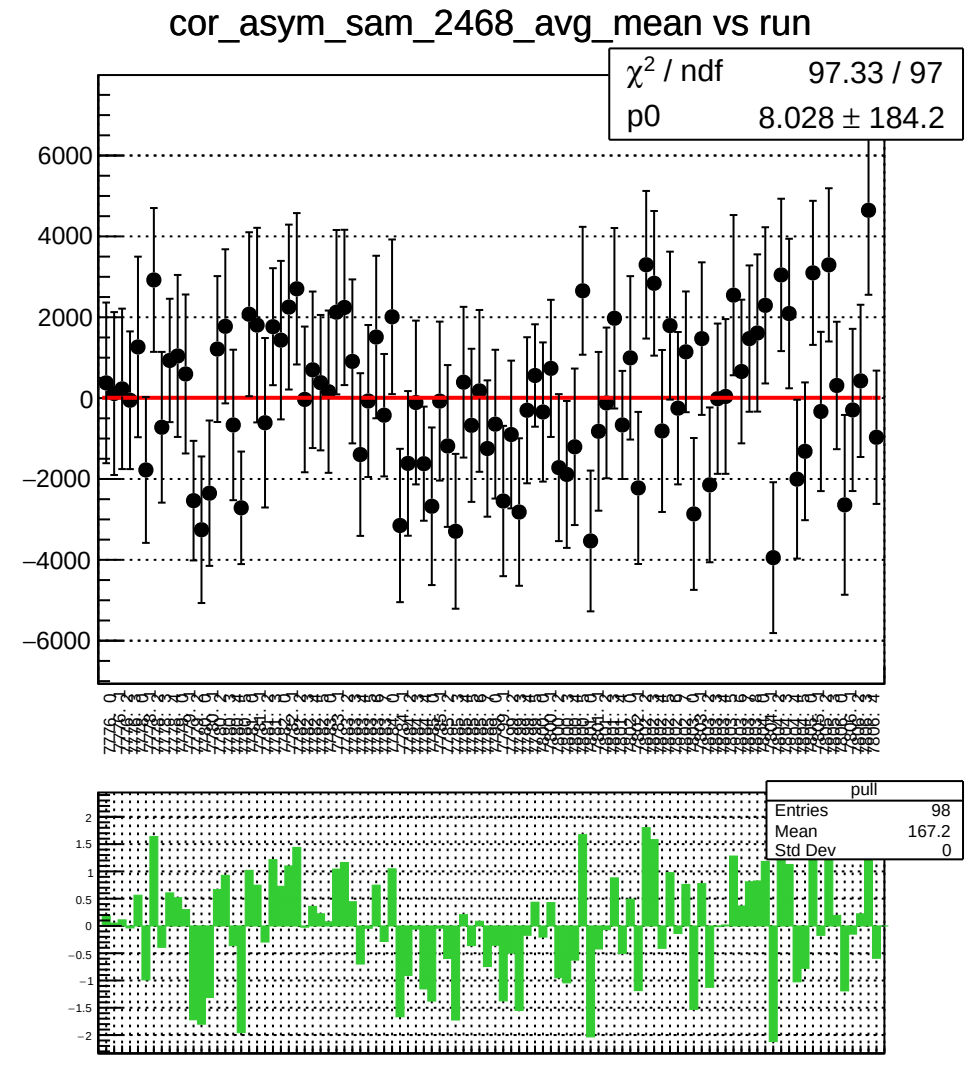

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.996e+05 / 97
p0 5.344e−11 ± 5.502e−14
0.5
0.4
0.3
0.2
0.1

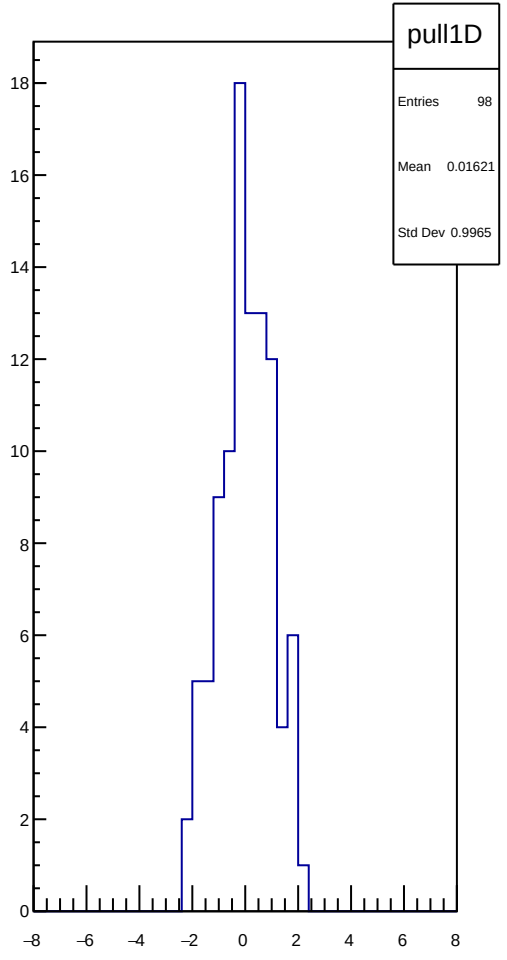

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 97.33 / 97
p0 8.046 ± 184.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 167.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.01621
Std Dev 0.9965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

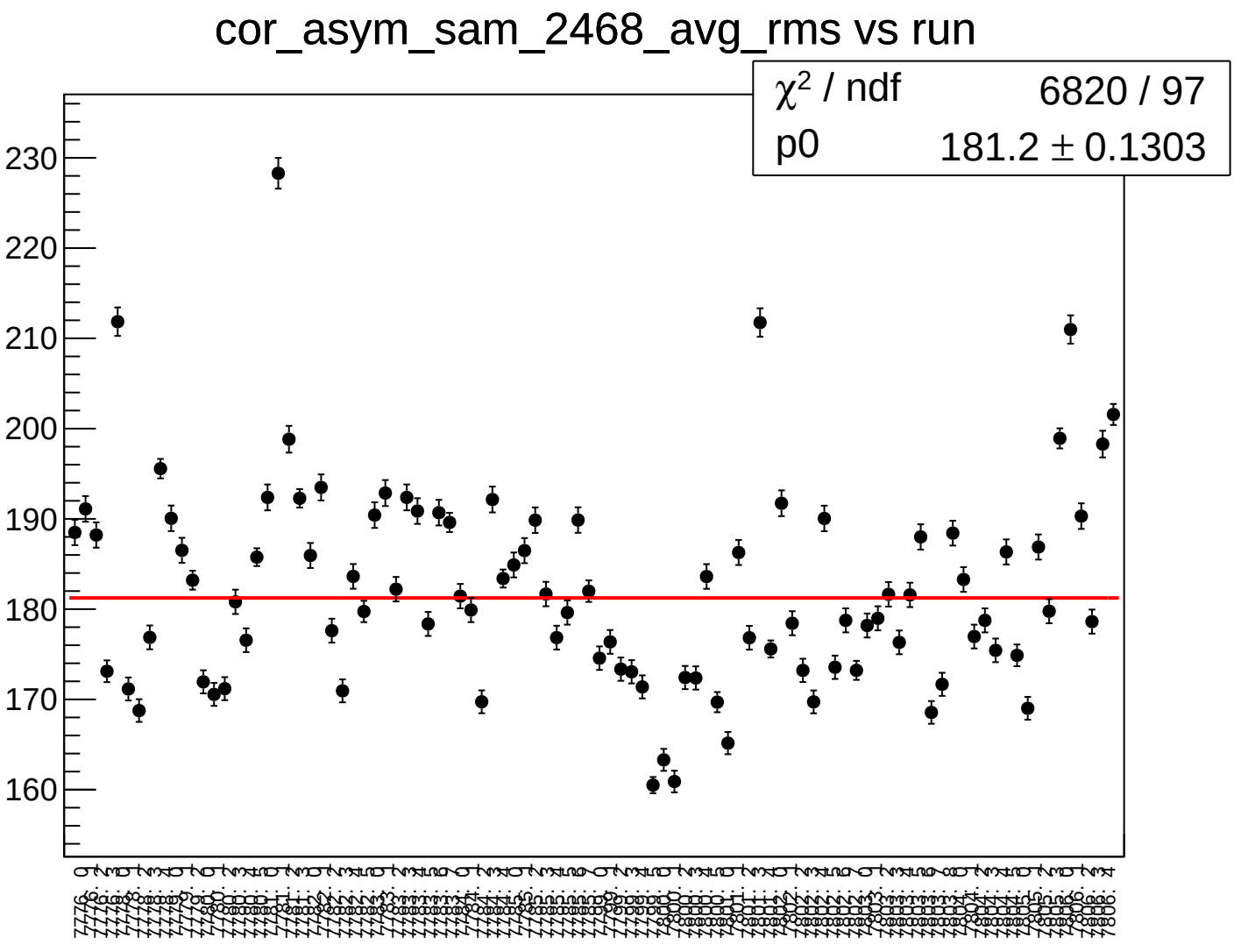

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 6820 / 97
p0 181.2 ± 0.1303
230
220
210
200
190
180
170
160

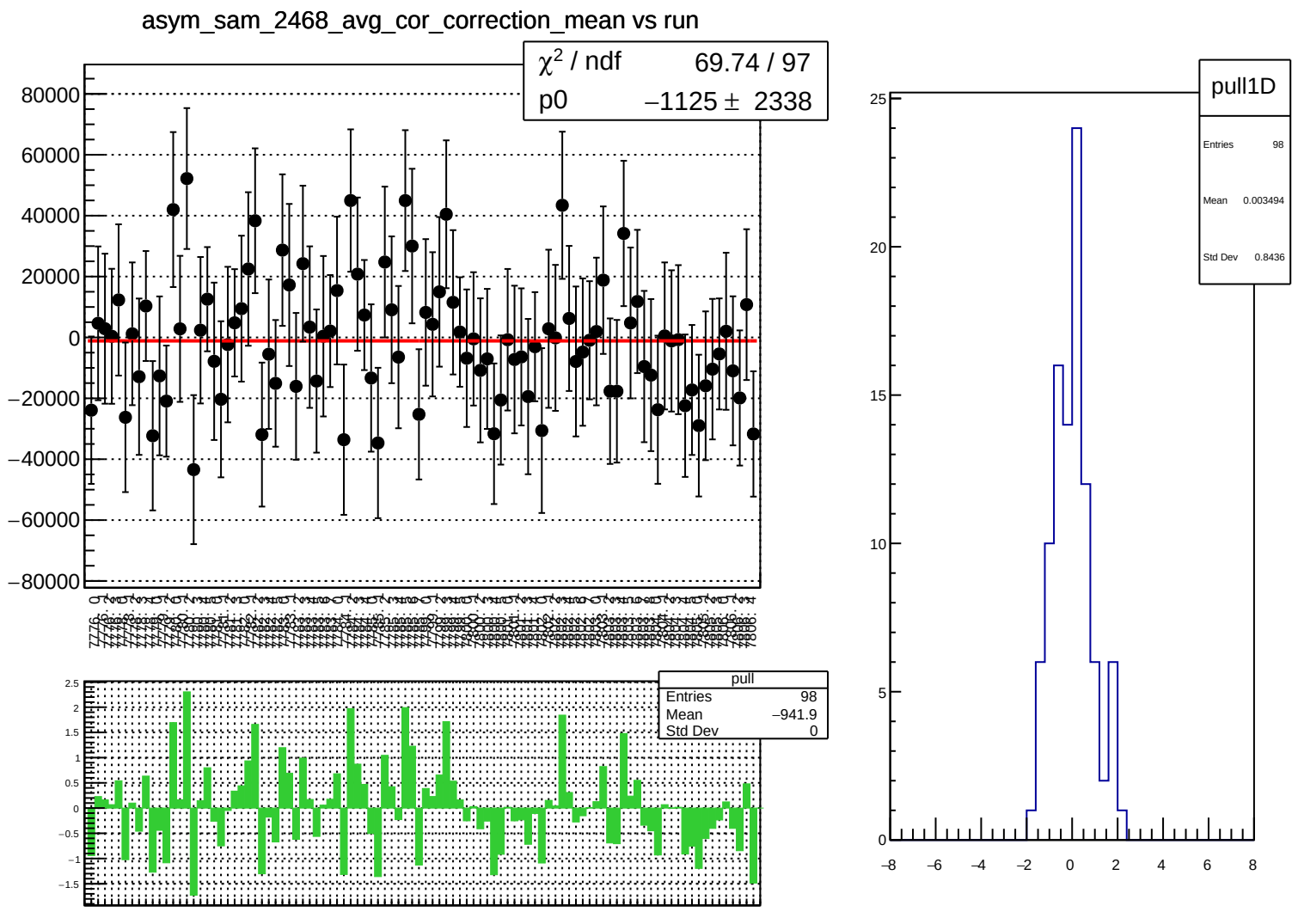

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 69.74 / 97
p0 −1125 ± 2338
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −941.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.003494
Std Dev 0.8436
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

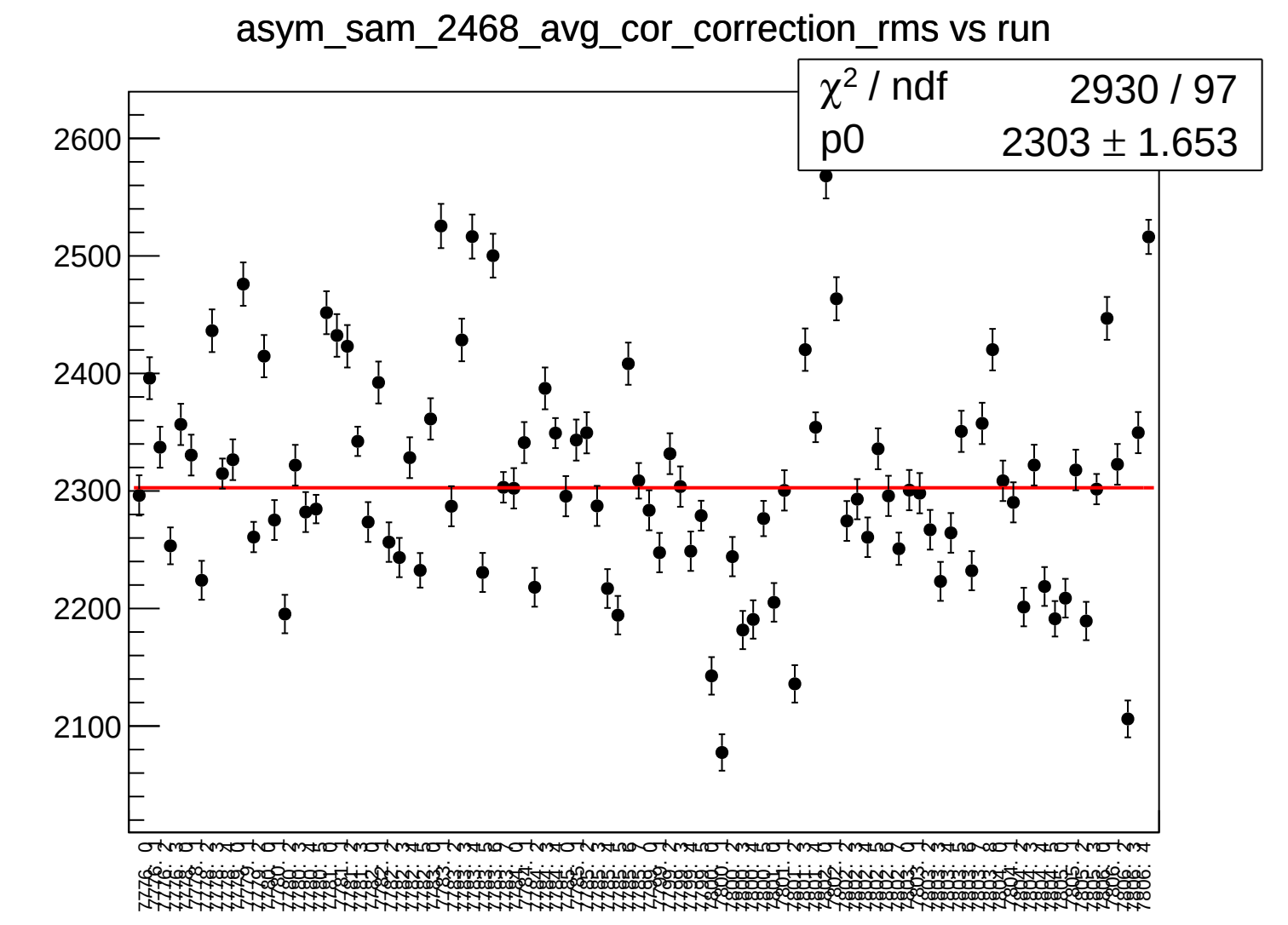

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 2930 / 97
p0 2303 ± 1.653
2600
2500
2400
2300
2200
2100

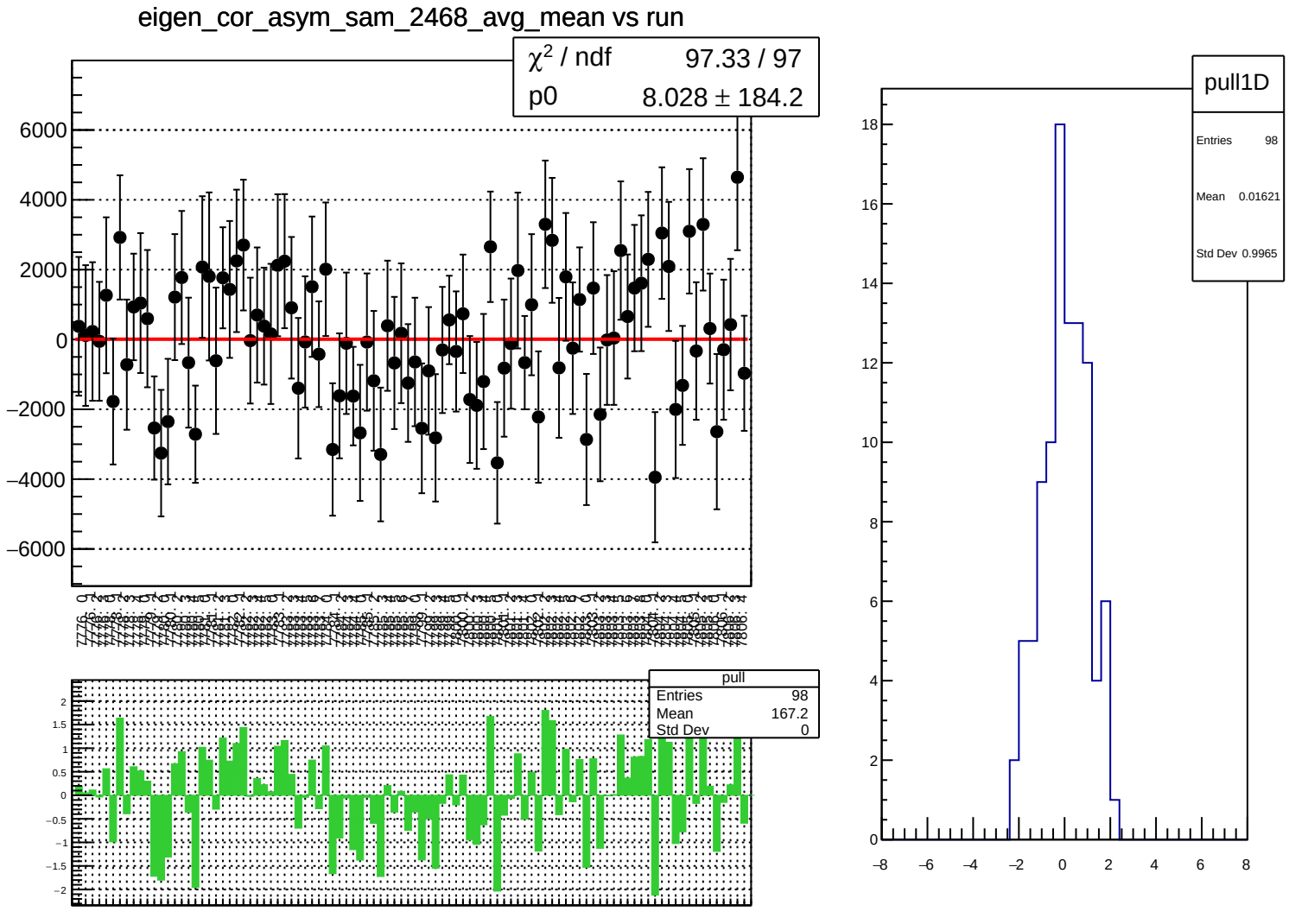

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 97.33 / 97
p0 8.028 ± 184.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 167.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

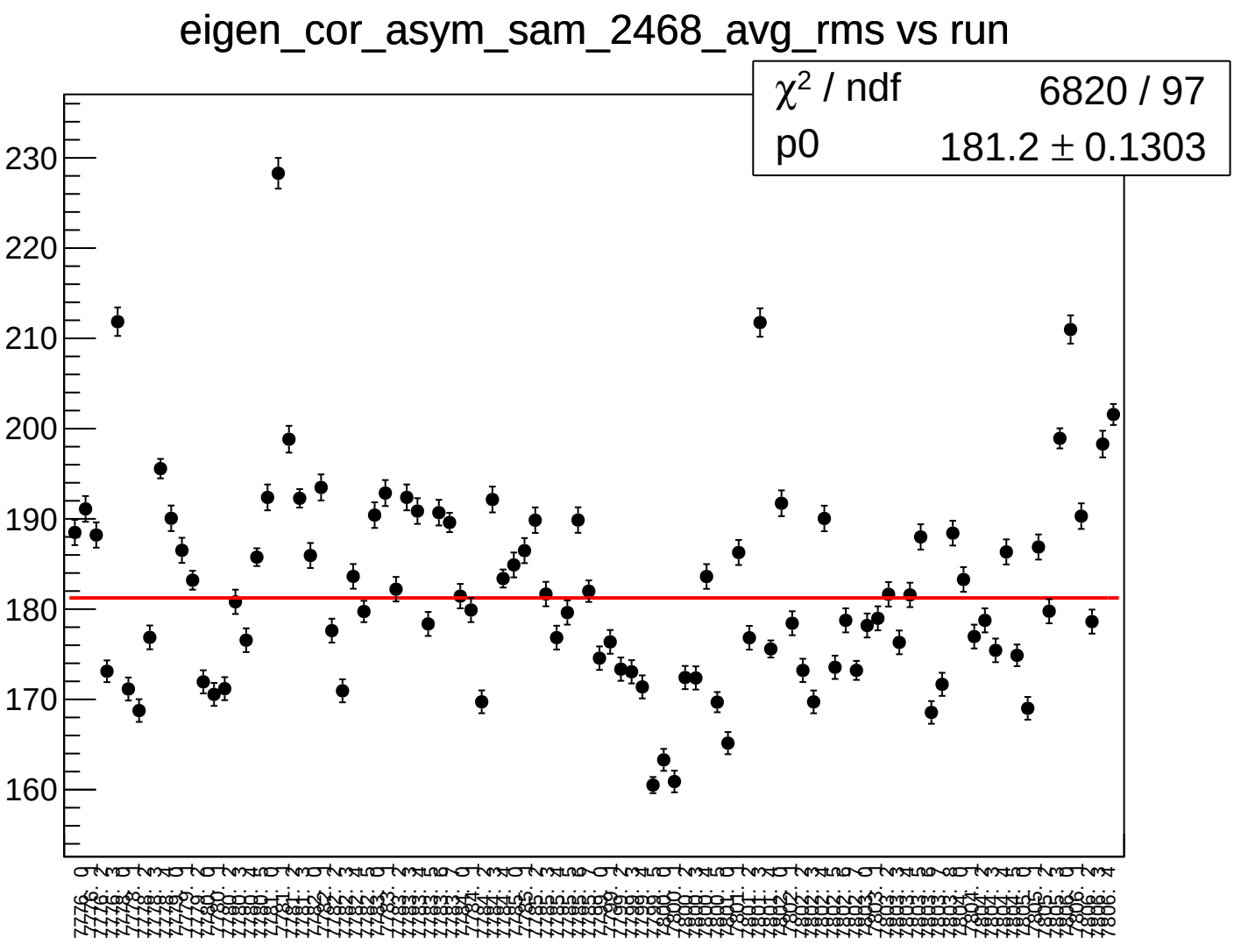

pull1D
Entries 98
Mean 0.01621
Std Dev 0.9965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

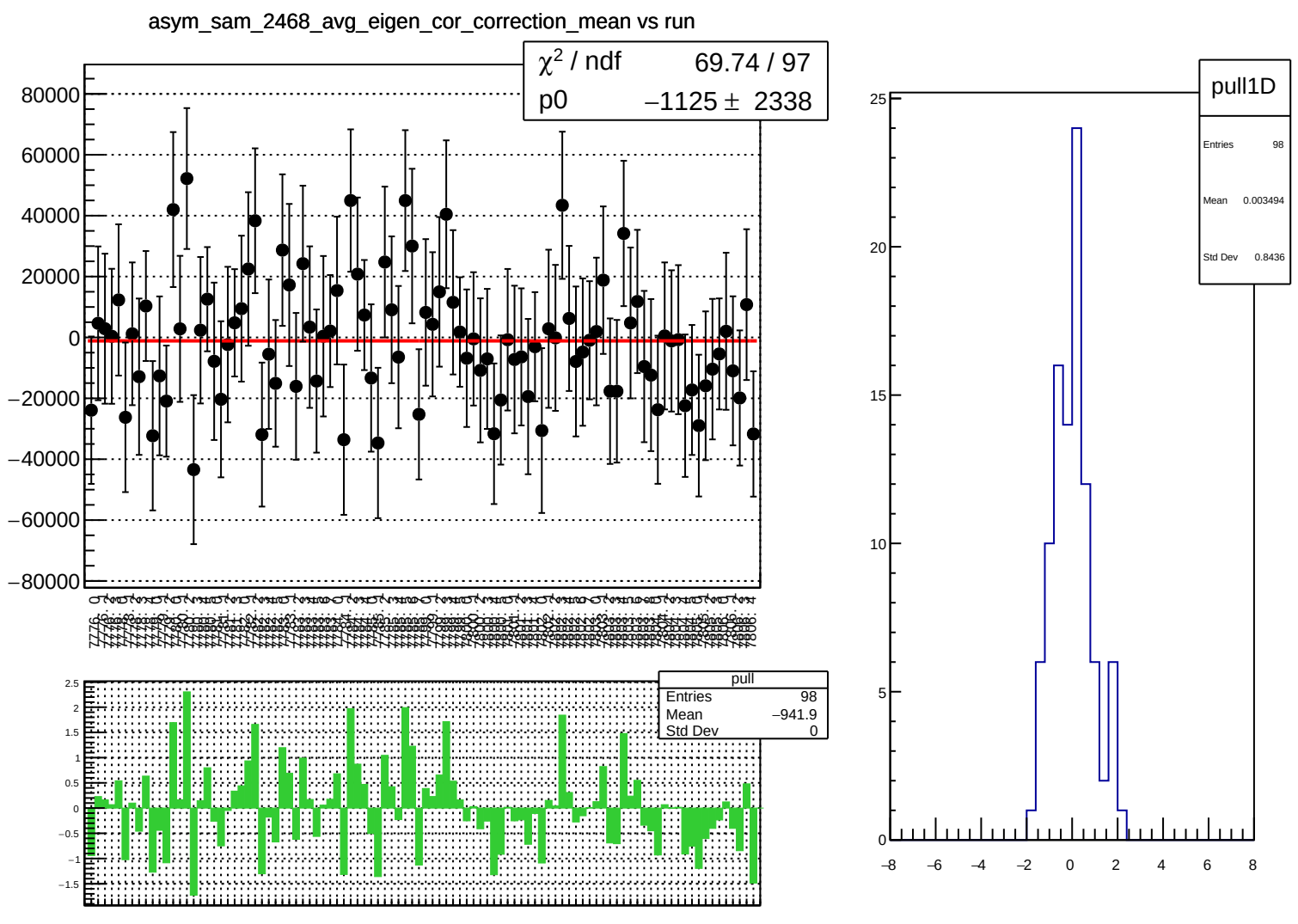

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 6820 / 97
p0 181.2 ± 0.1303
230
220
210
200
190
180
170
160

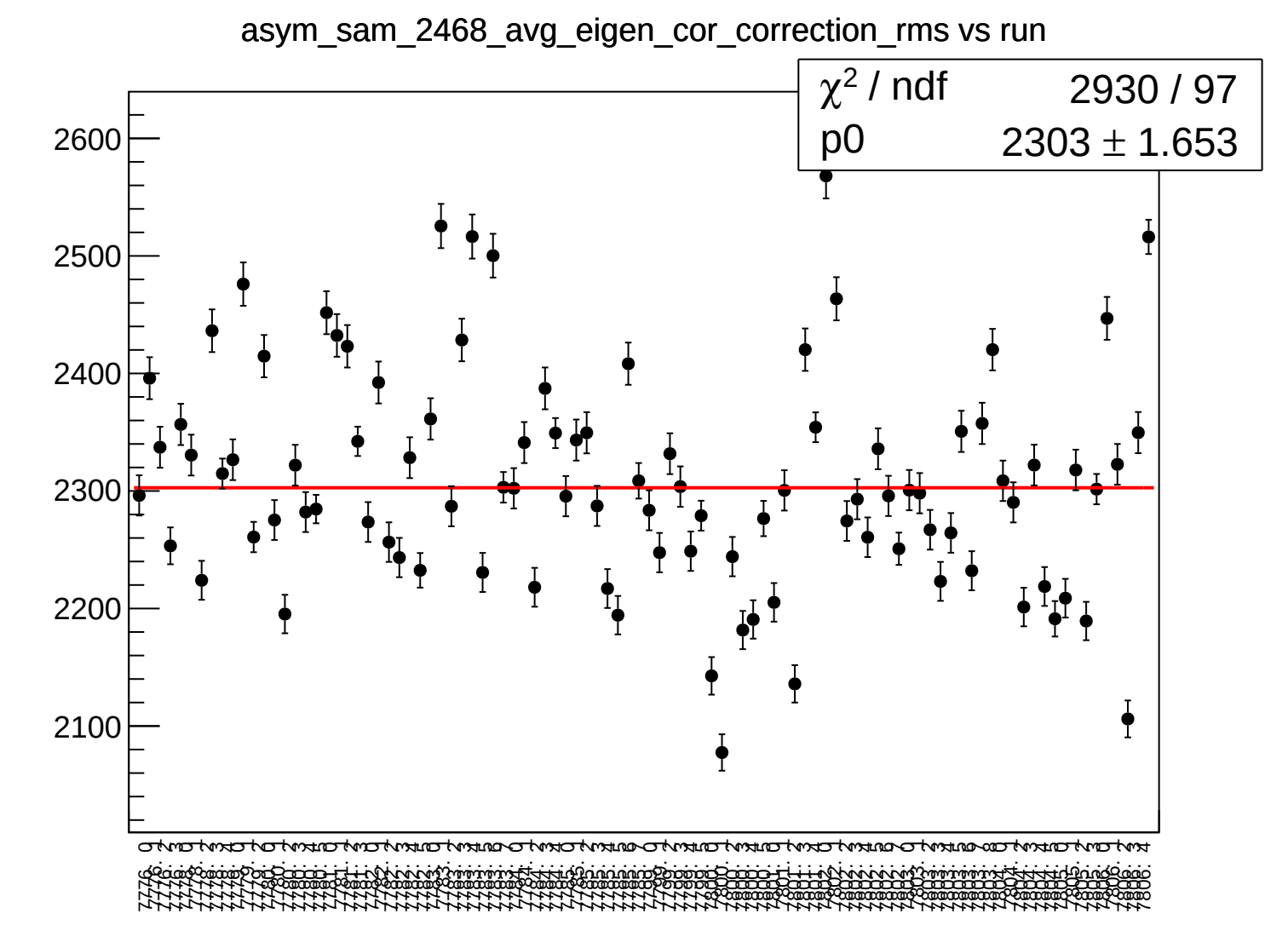

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 69.74 / 97
p0 −1125 ± 2338
pull
Entries 98
Mean −941.9
Std Dev 0
pull1D
Entries 98
Mean 0.003494
Std Dev 0.8436

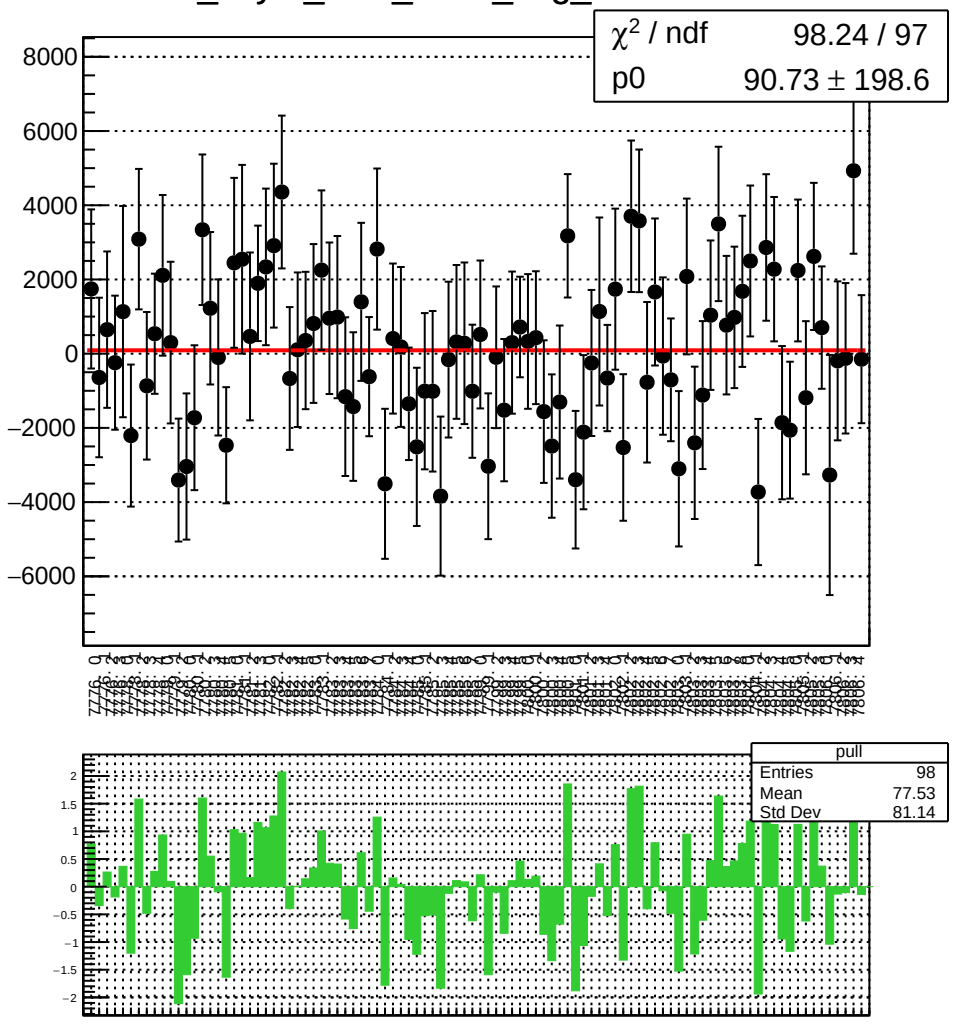

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 2930 / 97
p0 2303 ± 1.653
2600
2500
2400
2300
2200
2100

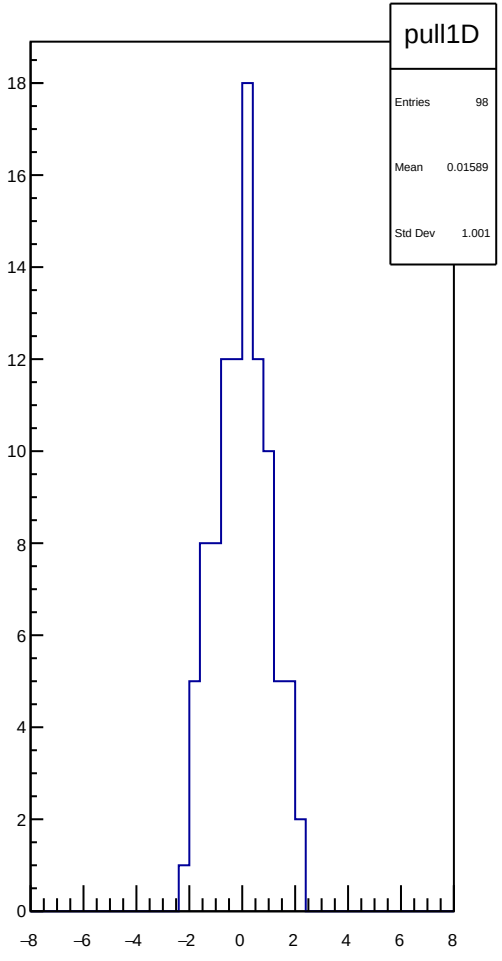

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 97.33 / 97
p0 8.028 ± 184.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 167.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.01621
Std Dev 0.9965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

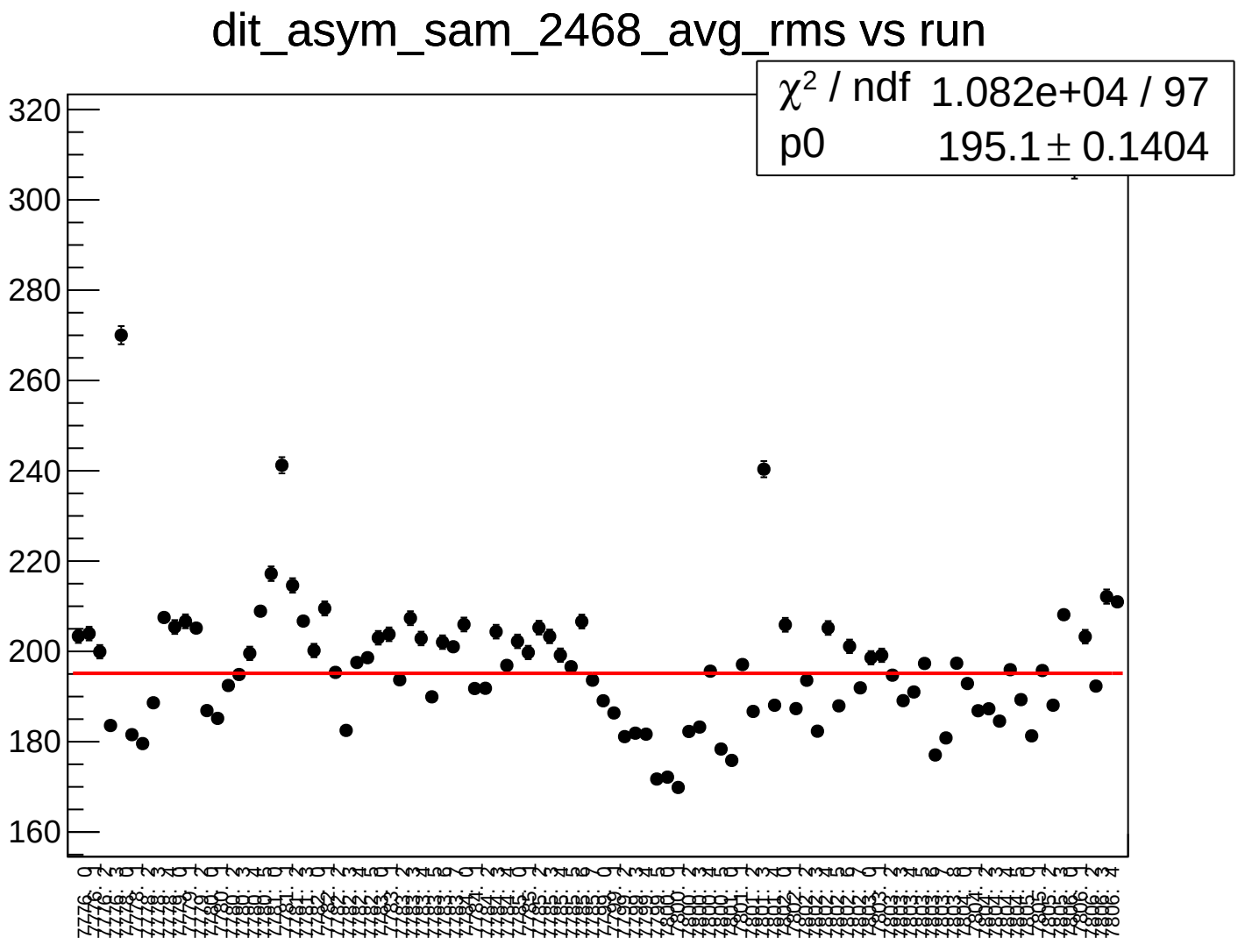

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 6820 / 97
p0 181.2 ± 0.1303
230
220
210
200
190
180
170
160

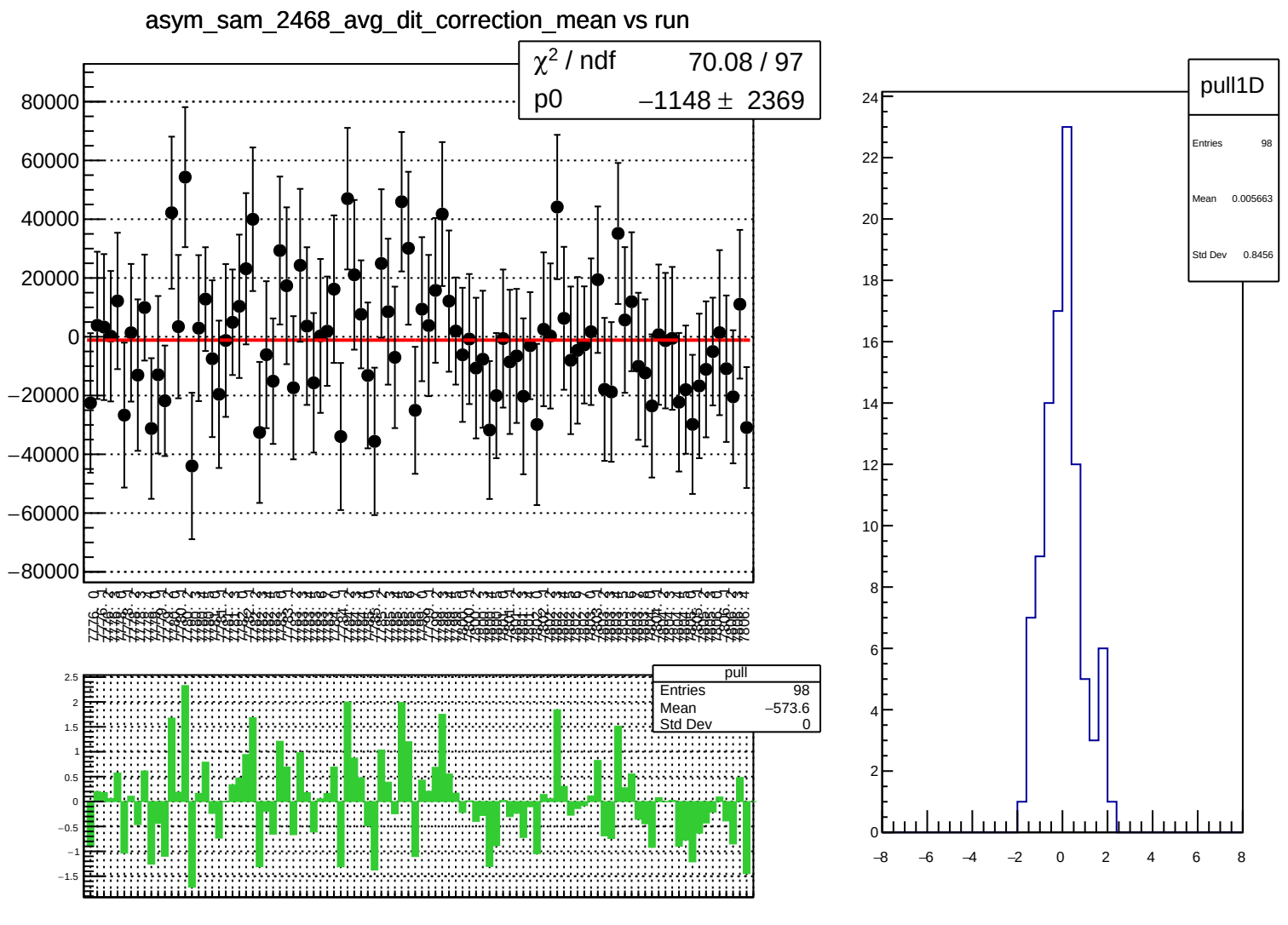

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.74 / 97
p0 −1125 ± 2338
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −941.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.003494
Std Dev 0.8436
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

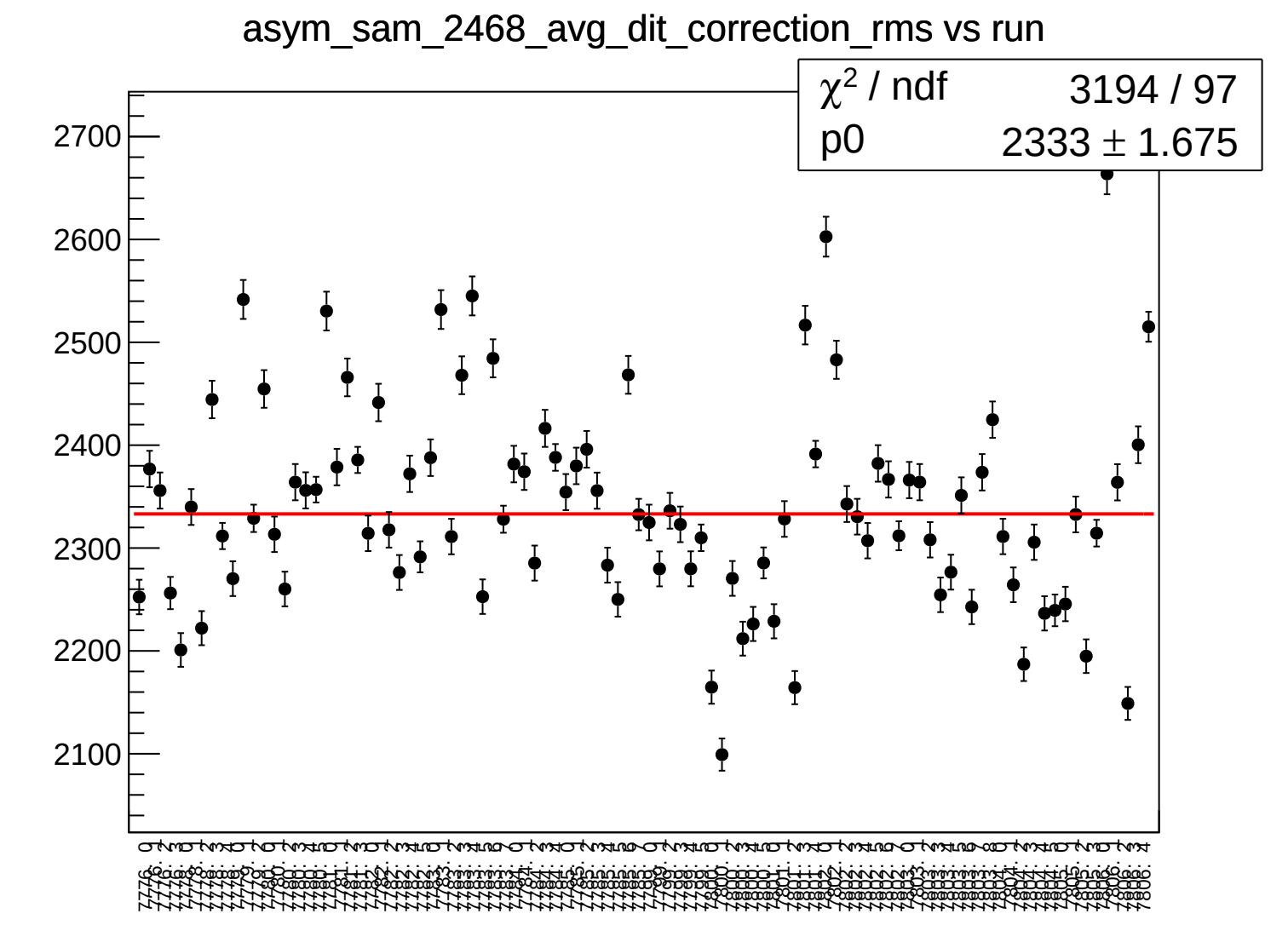

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 2930 / 97
p0 2303 ± 1.653
2600
2500
2400
2300
2200
2100

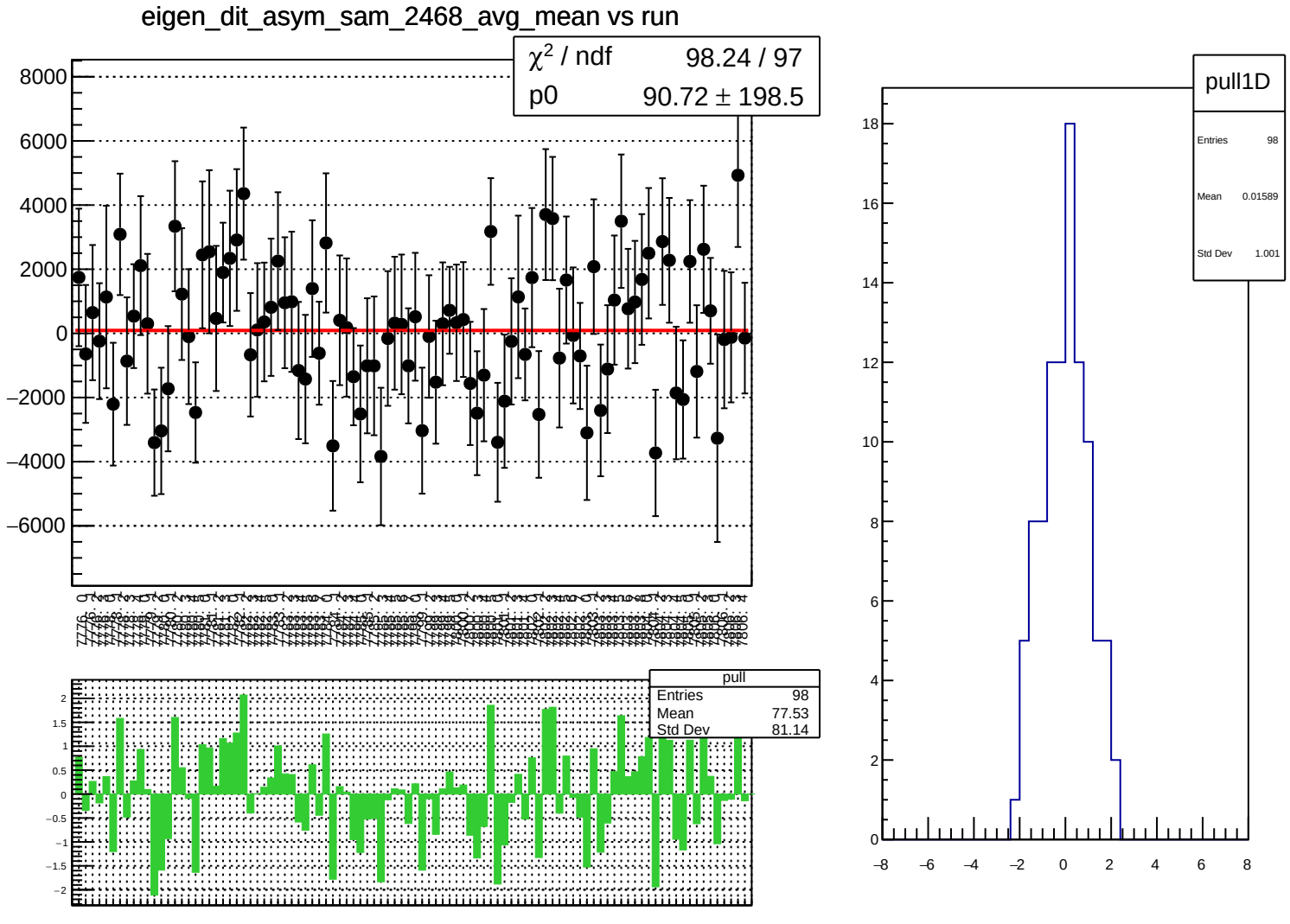

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 98.24 / 97
p0 90.73 ± 198.6
pull
Entries 98
Mean 77.53
Std Dev 81.14

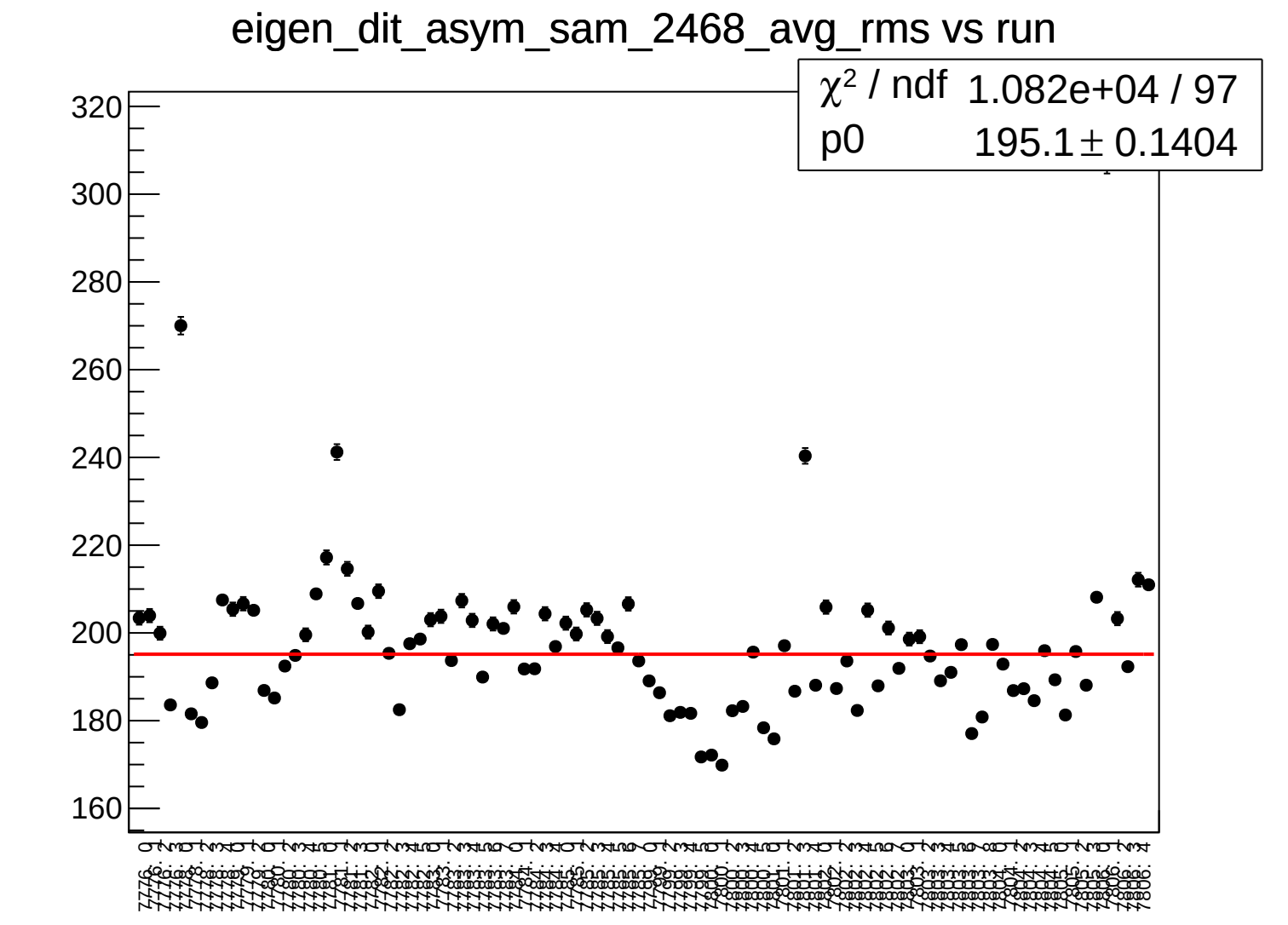

pull1D
Entries 98
Mean 0.01589
Std Dev 1.001

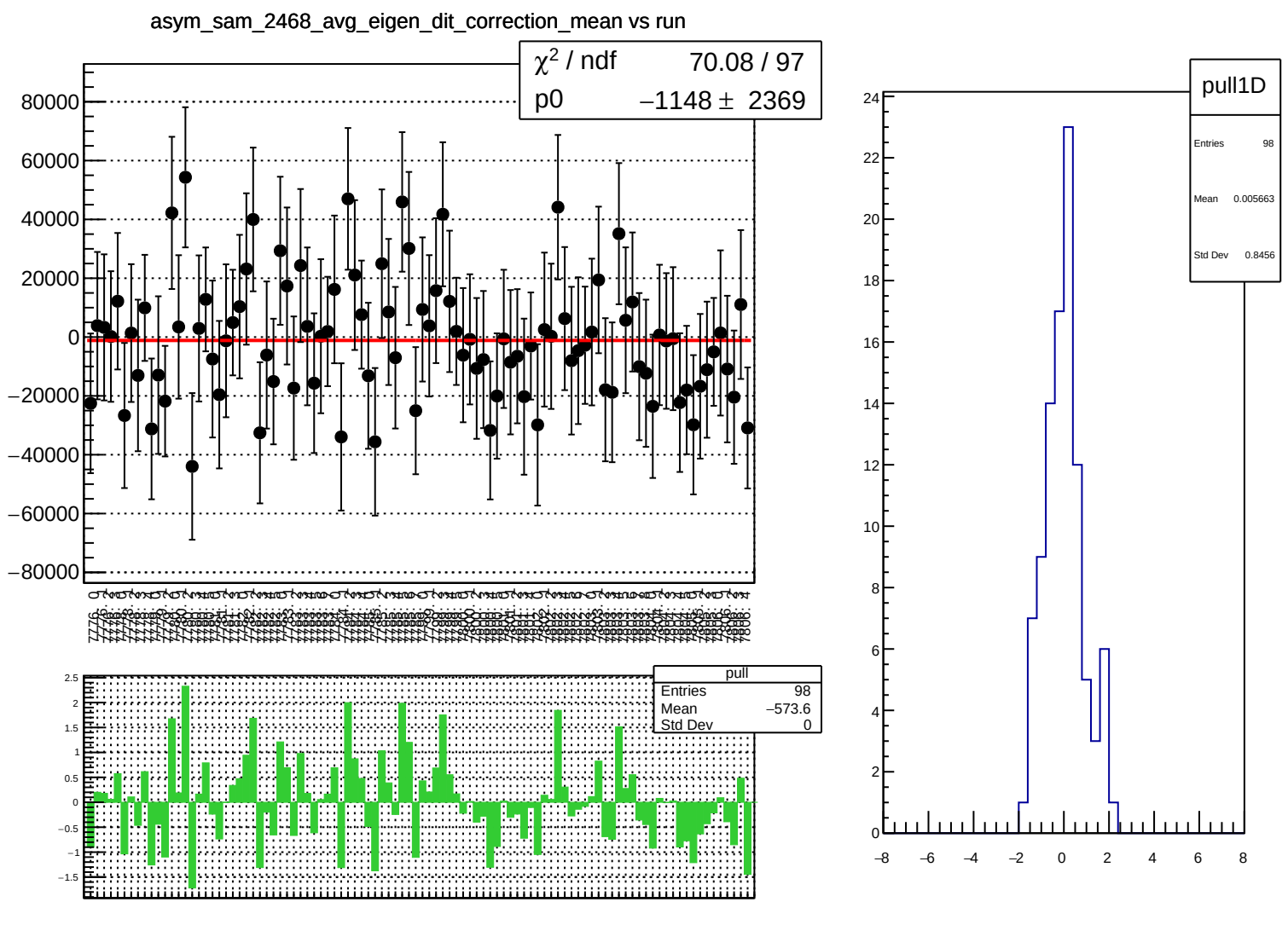

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.082e+04 / 97
p0 195.1 ± 0.1404
320
300
280
260
240
220
200
180
160

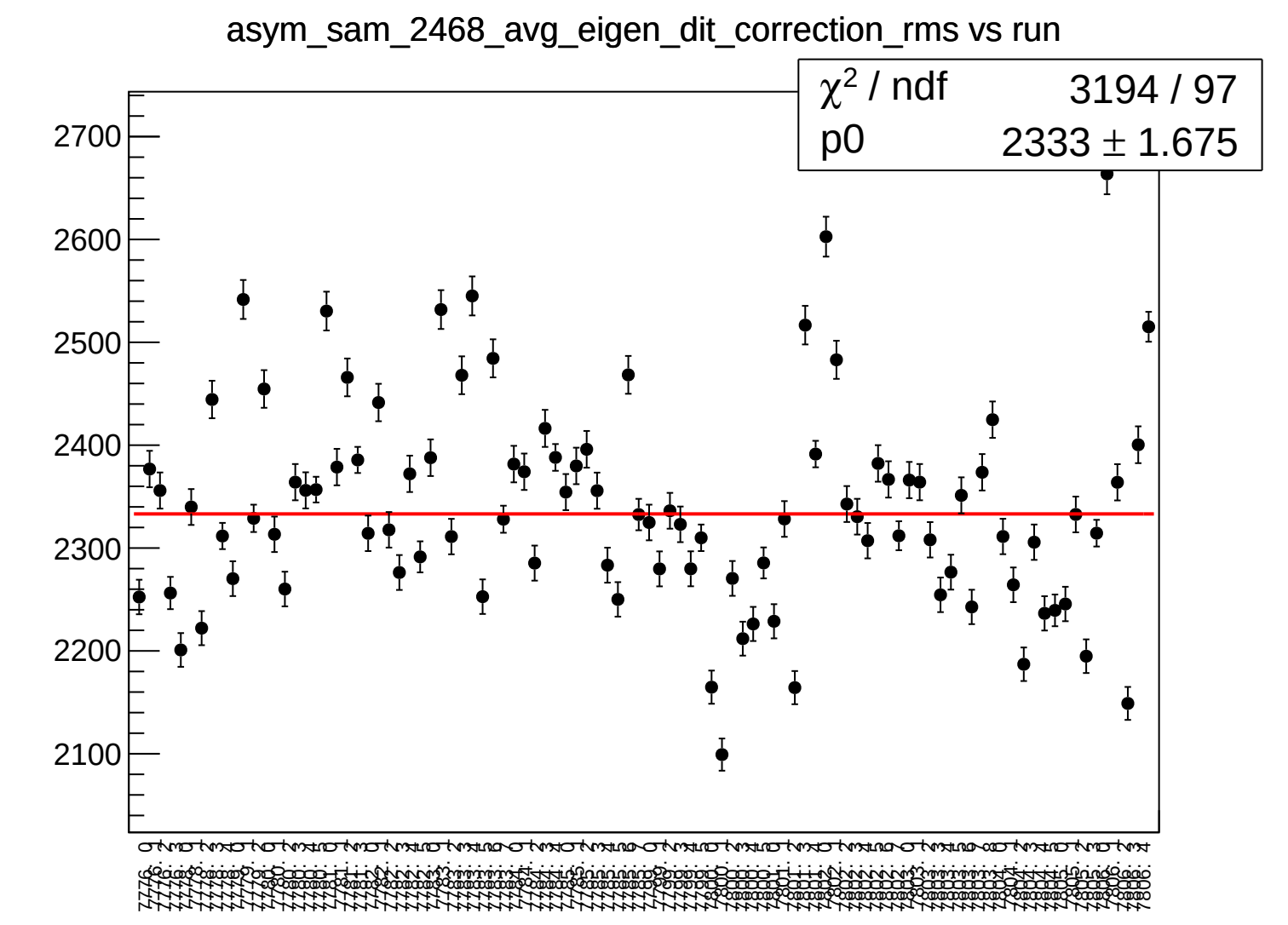

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 70.08 / 97
p0 −1148 ± 2369
pull
Entries 98
Mean −573.6
Std Dev 0
pull1D
Entries 98
Mean 0.005663
Std Dev 0.8456

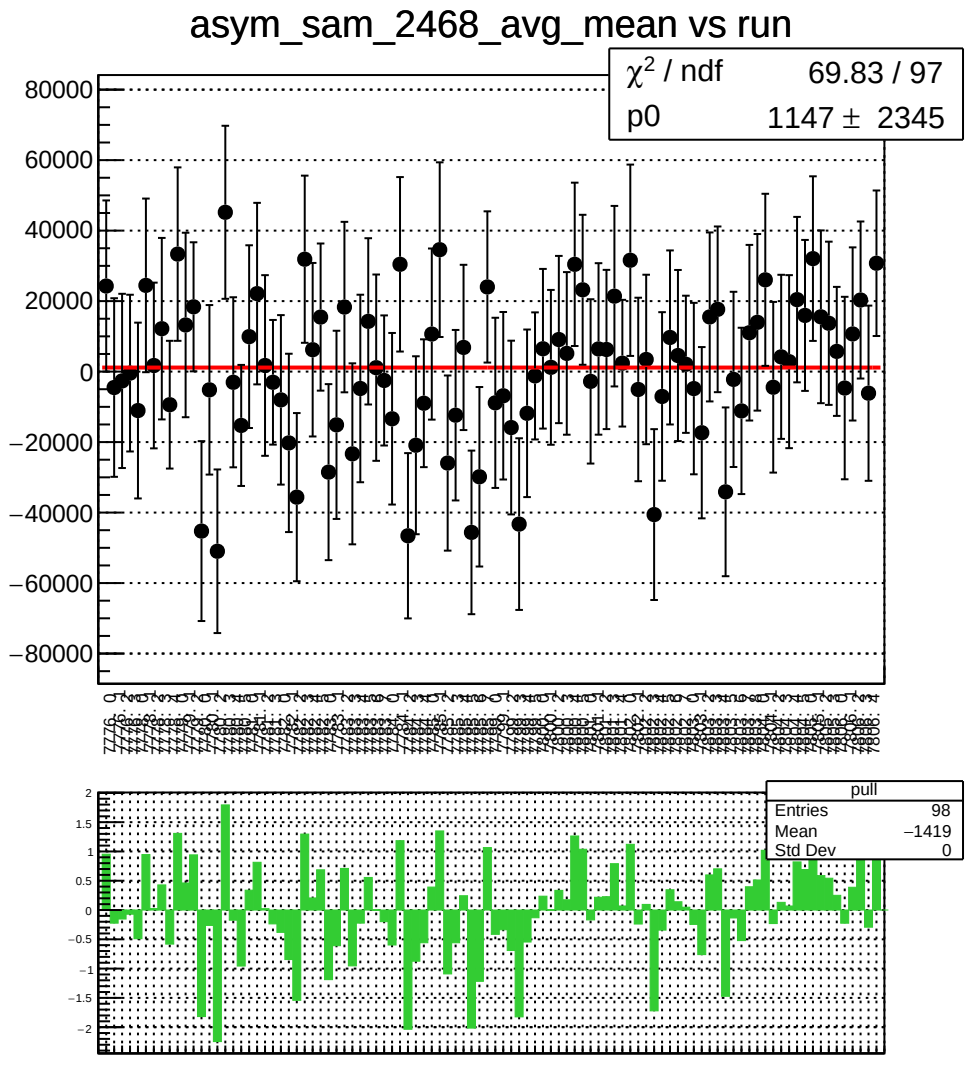

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3194 / 97
p0 2333 ± 1.675
2700
2600
2500
2400
2300
2200
2100

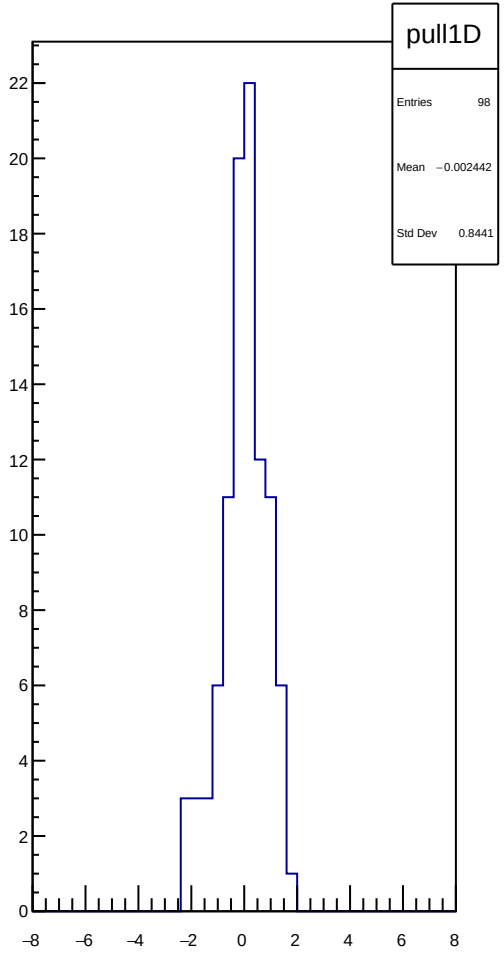

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 98.24 / 97
p0 90.72 ± 198.5
pull
Entries 98
Mean 77.53
Std Dev 81.14
pull1D
Entries 98
Mean 0.01589
Std Dev 1.001

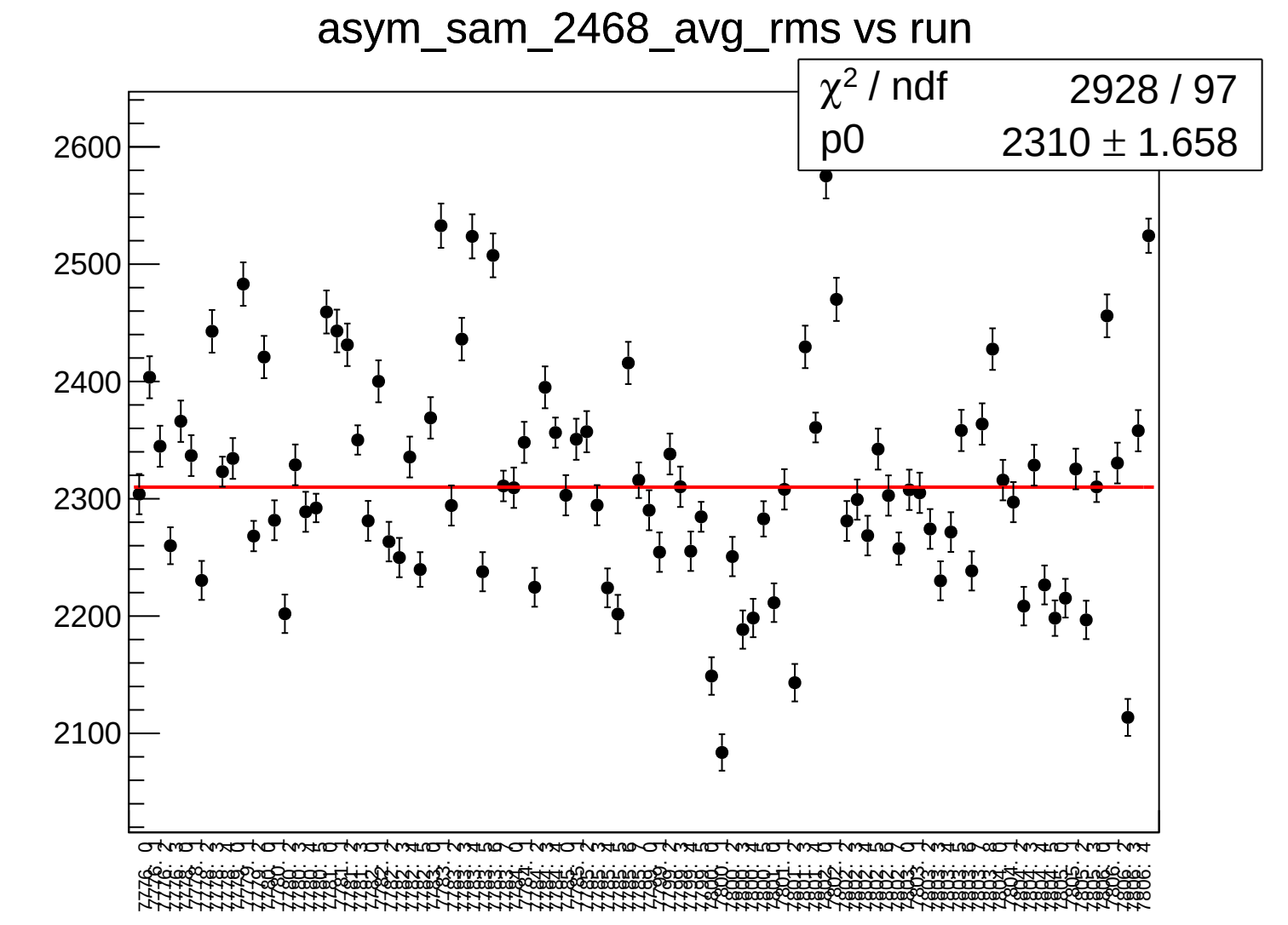

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.082e+04 / 97
p0 195.1 ± 0.1404
320
300
280
260
240
220
200
180
160

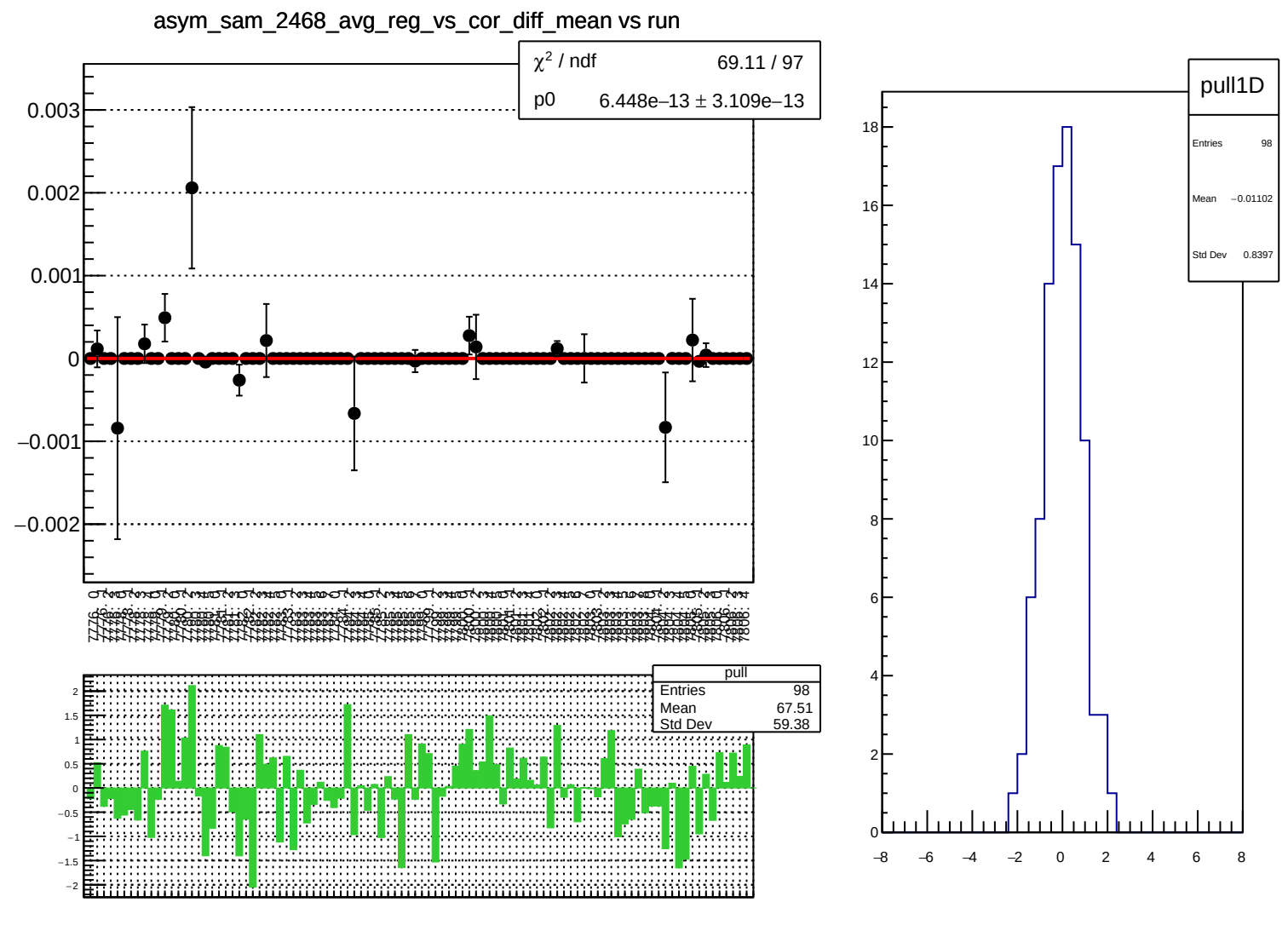

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.08 / 97
p0 −1148 ± 2369
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 98
Mean −573.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.005663
Std Dev 0.8456
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

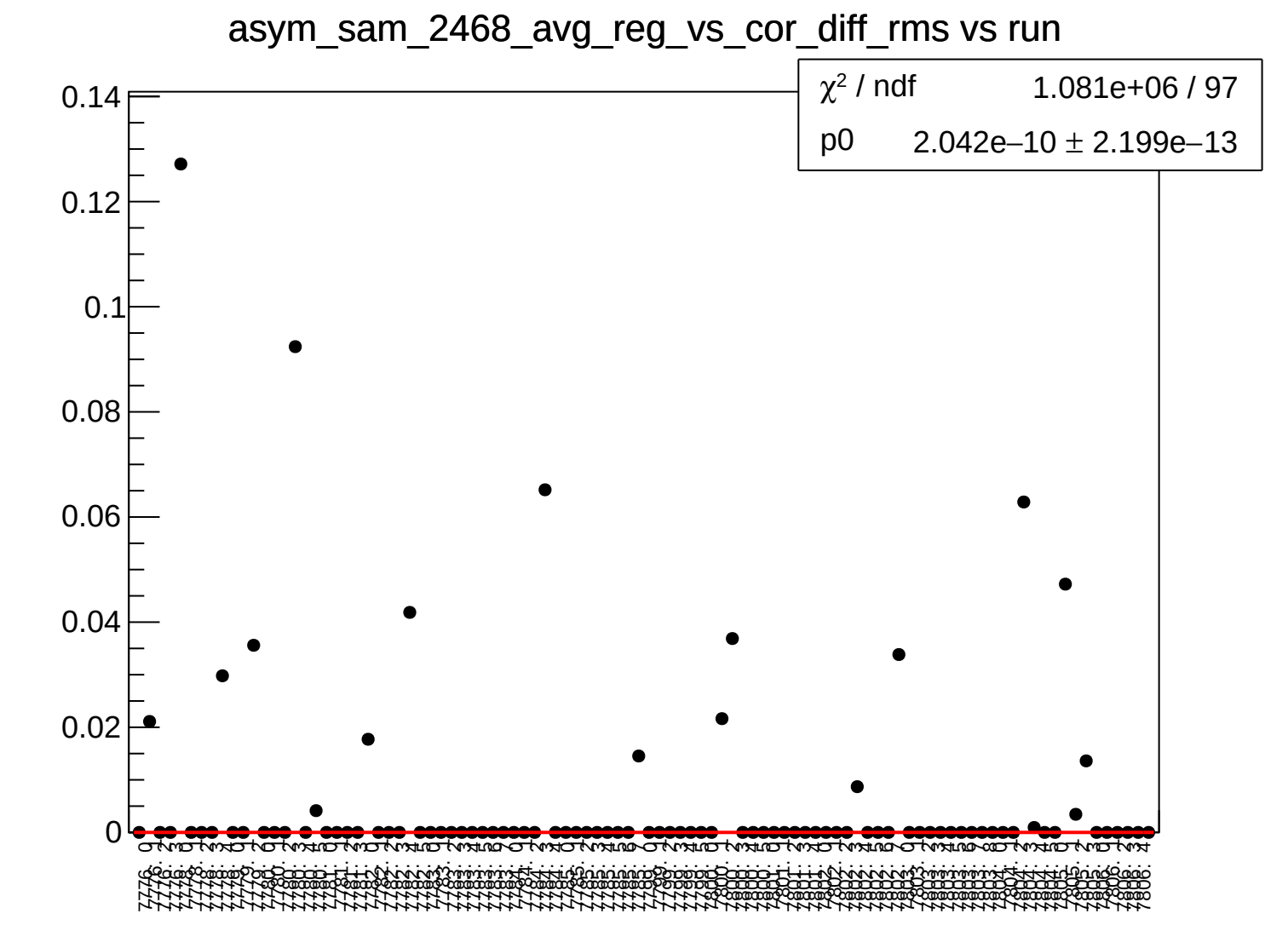

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 3194 / 97
p0 2333 ± 1.675
2700
2600
2500
2400
2300
2200
2100

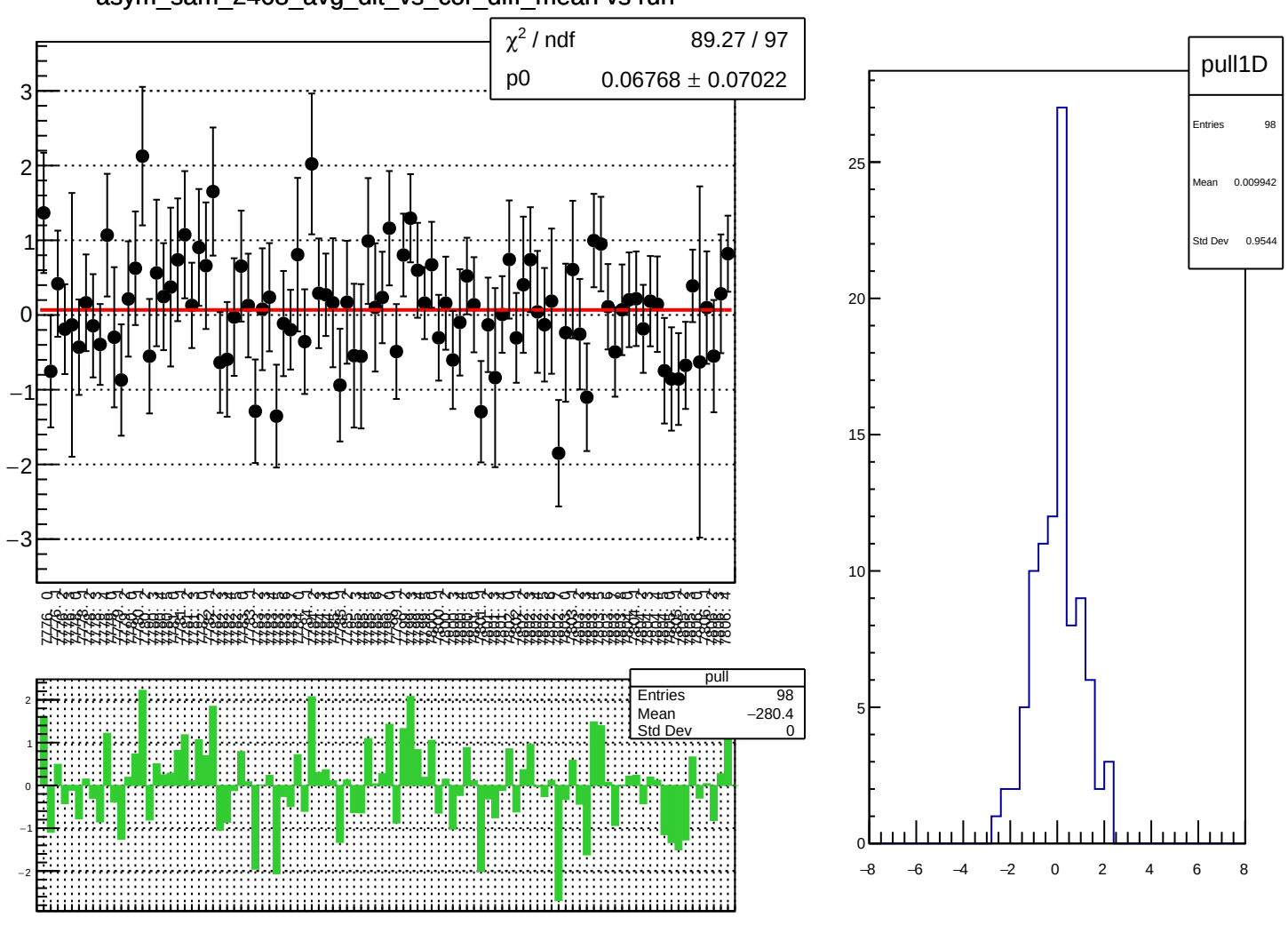

asym_sam_2468_avg_mean vs run
χ² / ndf 69.83 / 97
p0 1147 ± 2345
pull
Entries 98
Mean −1419
Std Dev 0

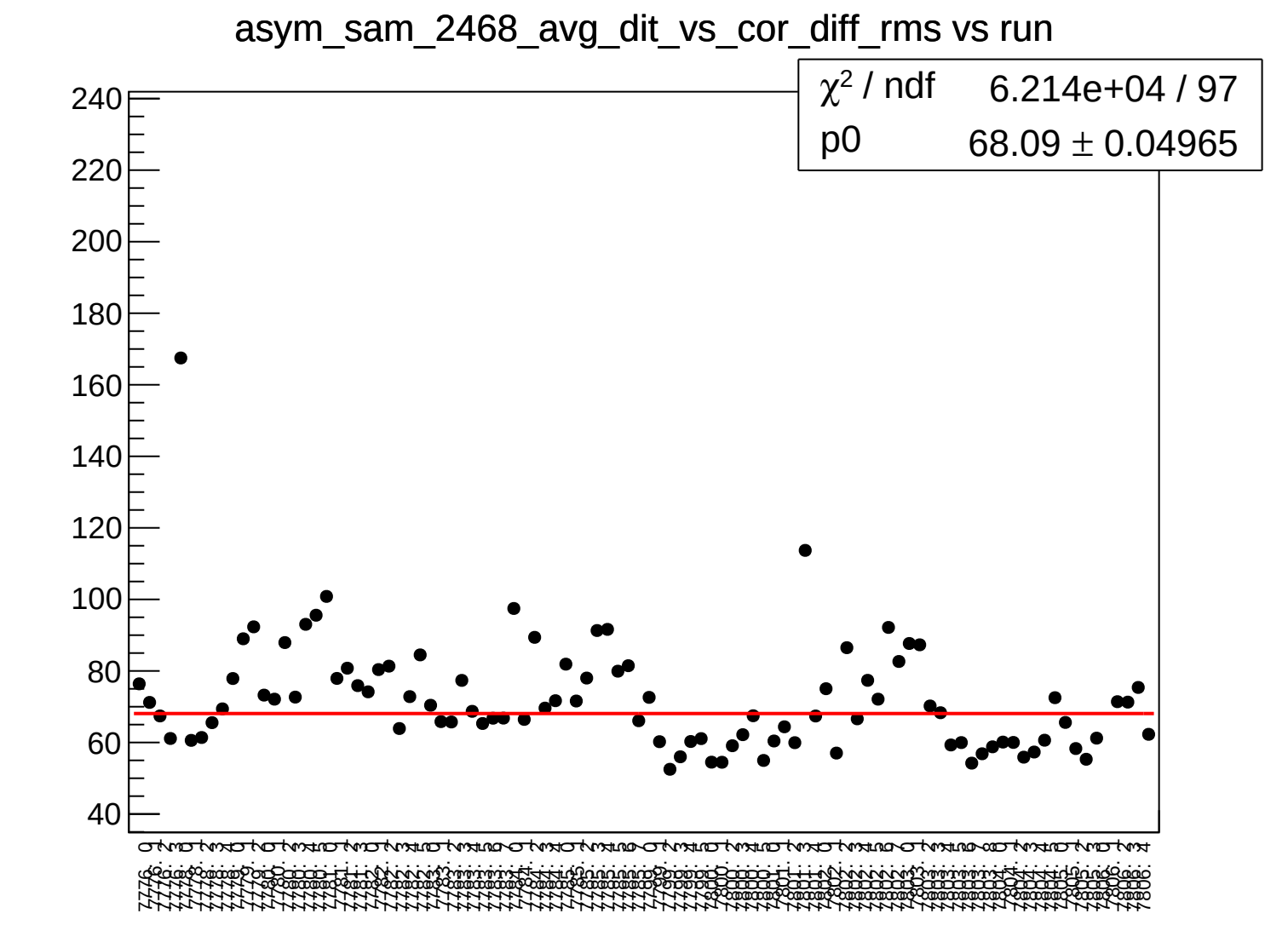

pull1D
Entries 98
Mean −0.002442
Std Dev 0.8441

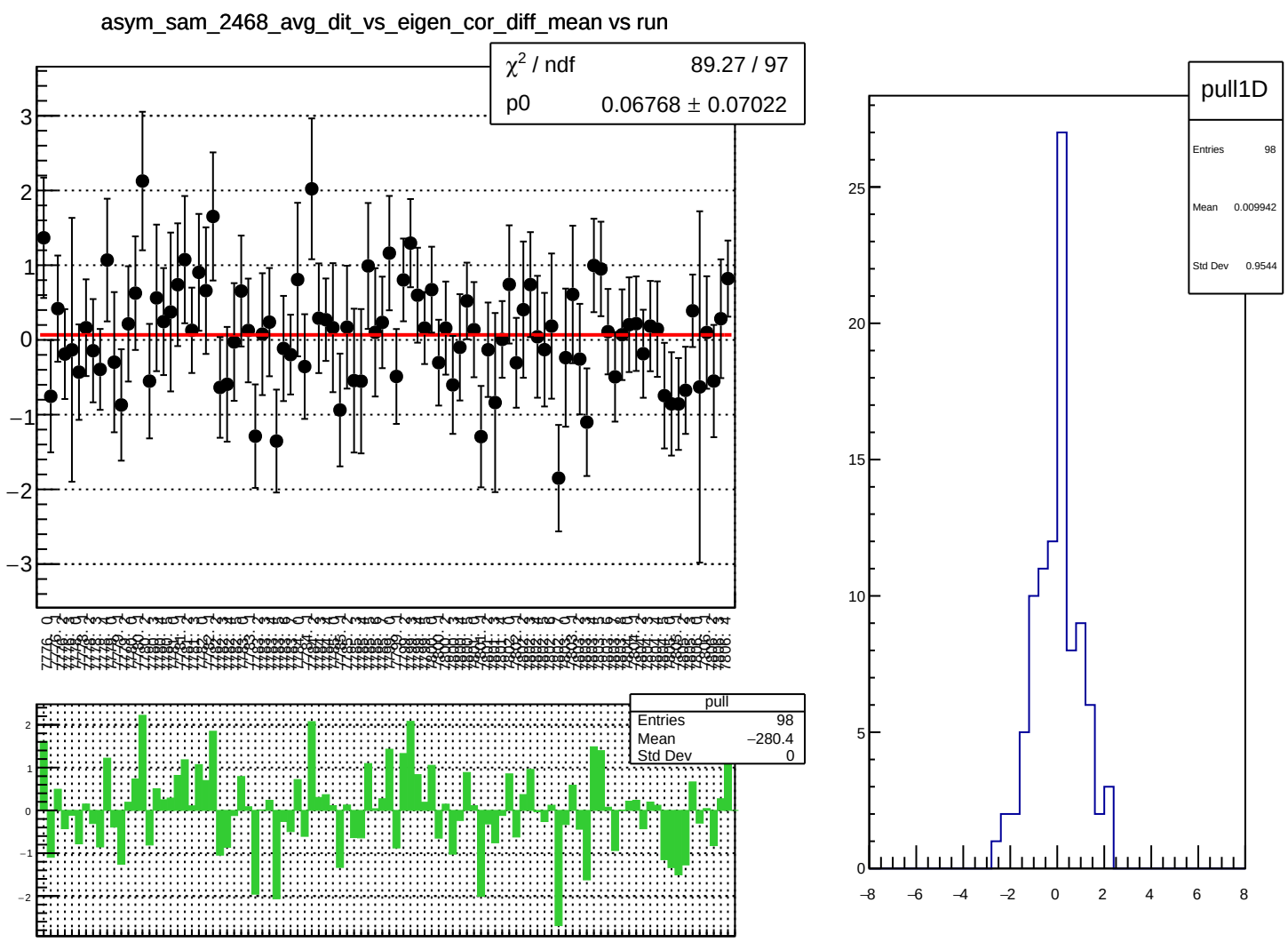

asym_sam_2468_avg_rms vs run
χ² / ndf 2928 / 97
p0 2310 ± 1.658
2600
2500
2400
2300
2200
2100

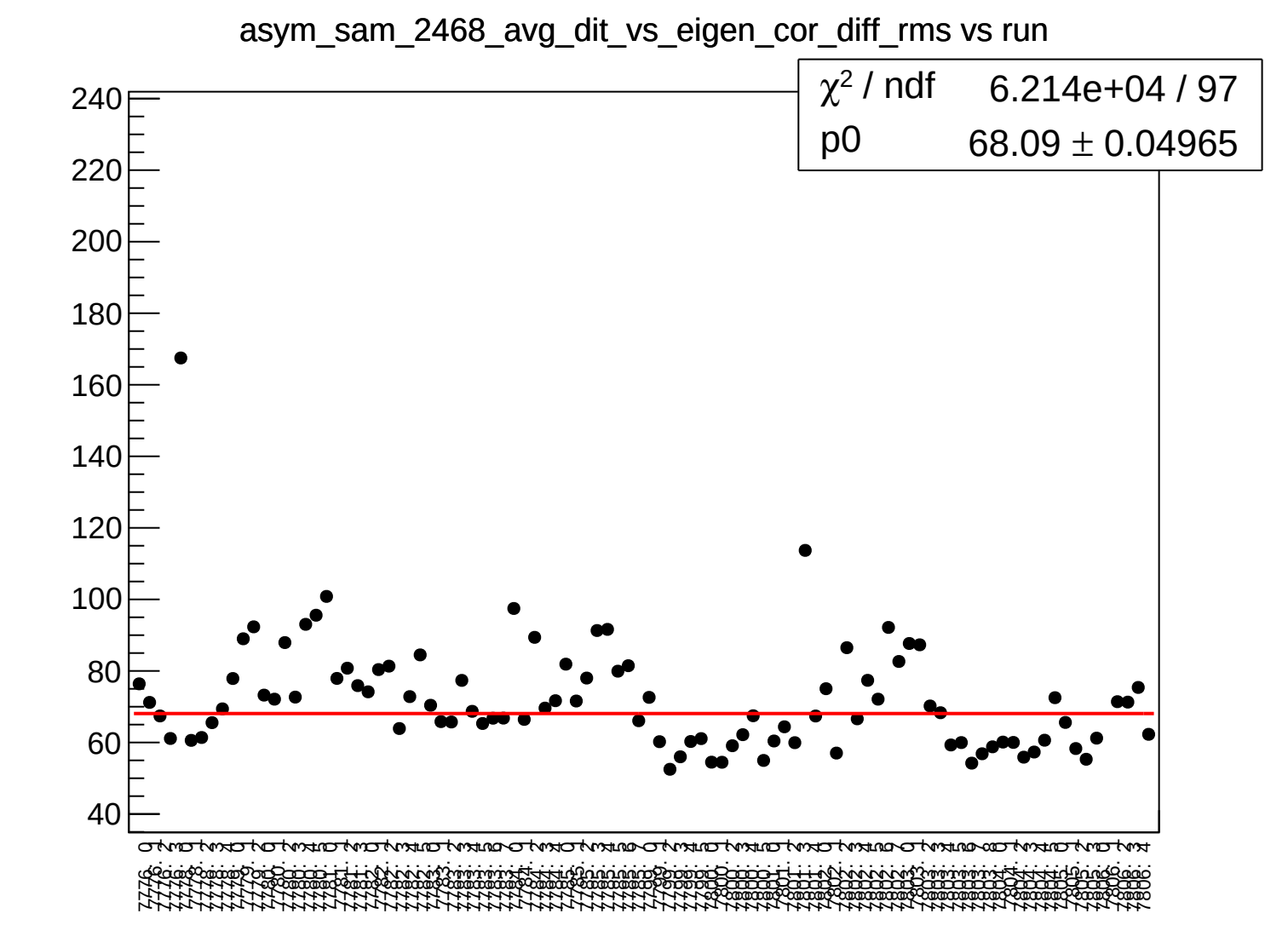

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.11 / 97
p0 6.448e−13 ± 3.109e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 98
Mean 67.51
Std Dev 59.38
pull1D
Entries 98
Mean −0.01102
Std Dev 0.8397

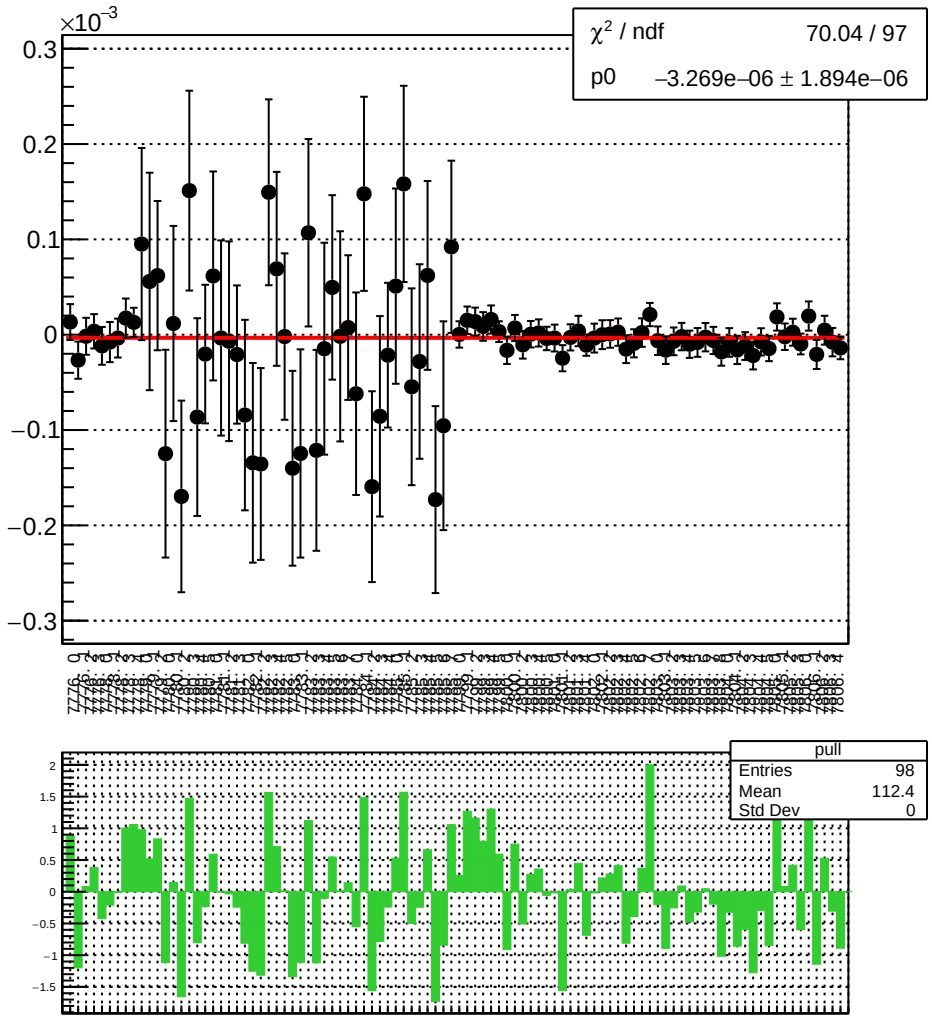

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.081e+06 / 97
p0 2.042e−10 ± 2.199e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

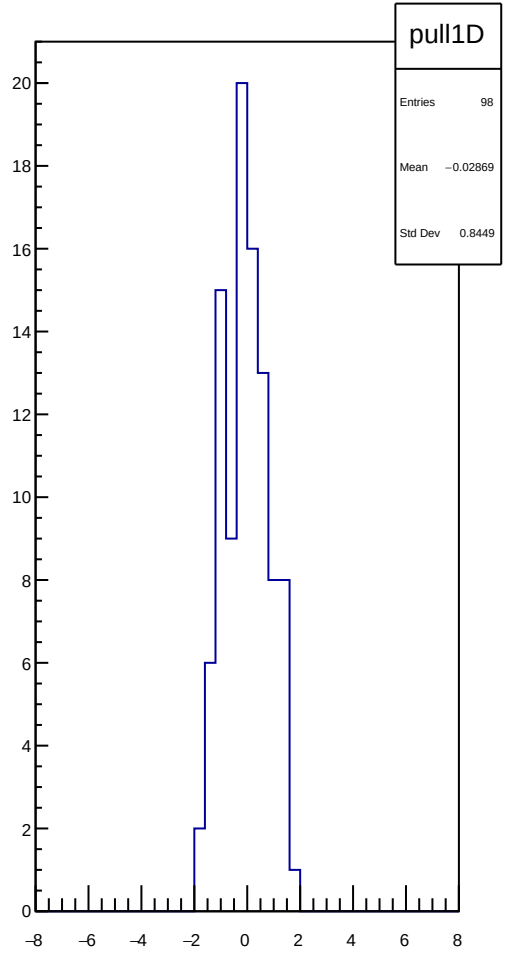

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.27 / 97
p0 0.06768 ± 0.07022
pull
Entries 98
Mean −280.4
Std Dev 0
pull1D
Entries 98
Mean 0.009942
Std Dev 0.9544

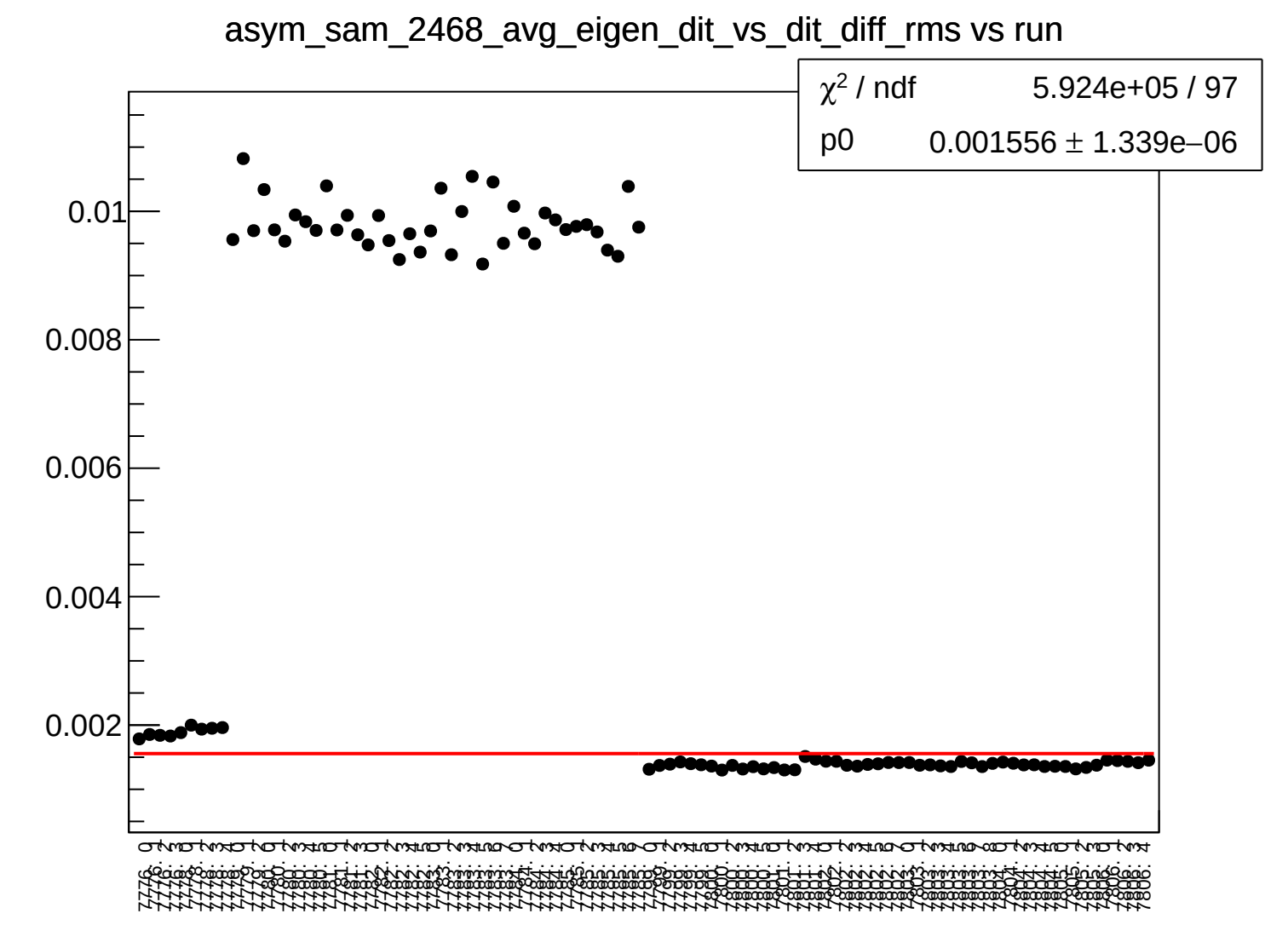

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.214e+04 / 97
p0 68.09 ± 0.04965
240
220
200
180
160
140
120
100
80
60
40

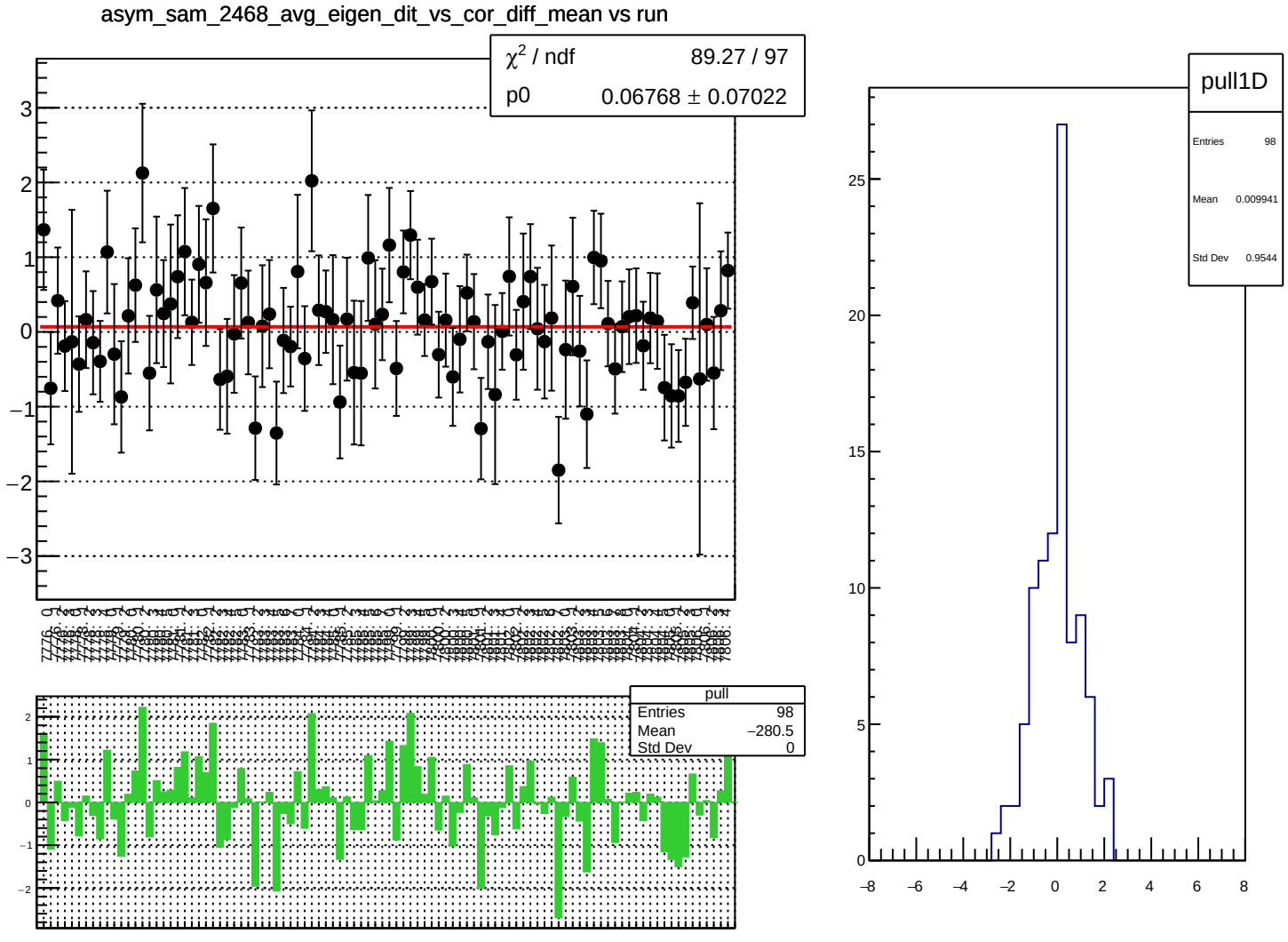

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.27 / 97
p0 0.06768 ± 0.07022
pull
Entries 98
Mean −280.4
Std Dev 0
pull1D
Entries 98
Mean 0.009942
Std Dev 0.9544

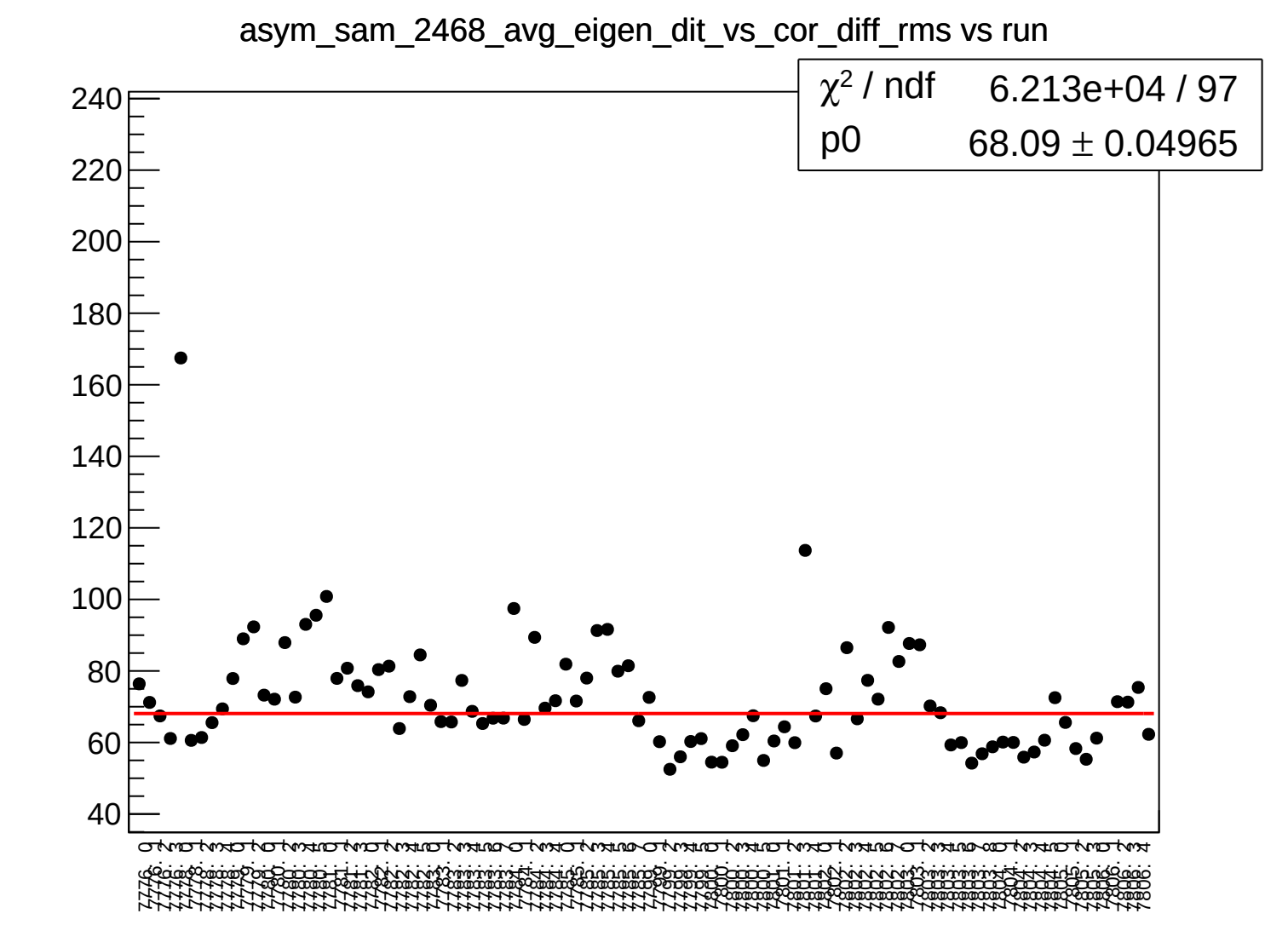

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.214e+04 / 97
p0 68.09 ± 0.04965
240
220
200
180
160
140
120
100
80
60
40

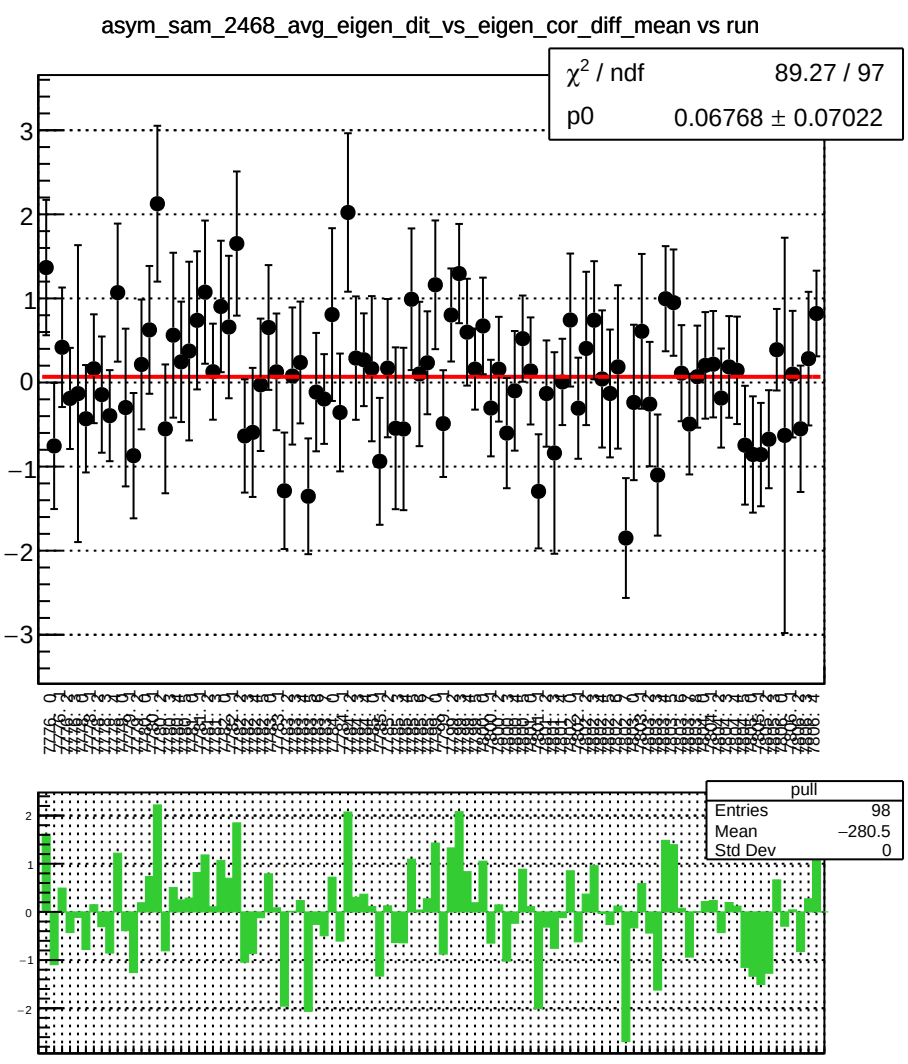

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.04 / 97
p0 −3.269e−06 ± 1.894e−06
pull
Entries 98
Mean 112.4
Std Dev 0

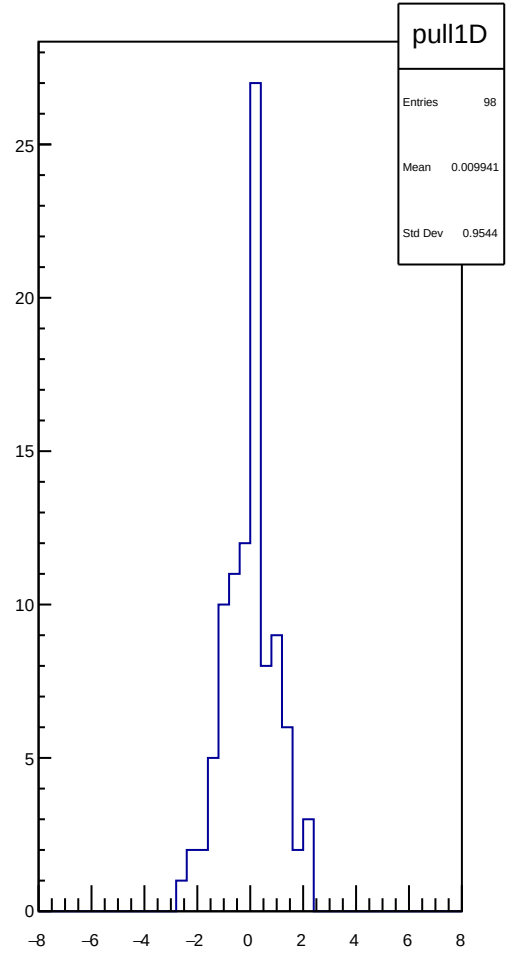

pull1D
Entries 98
Mean −0.02869
Std Dev 0.8449

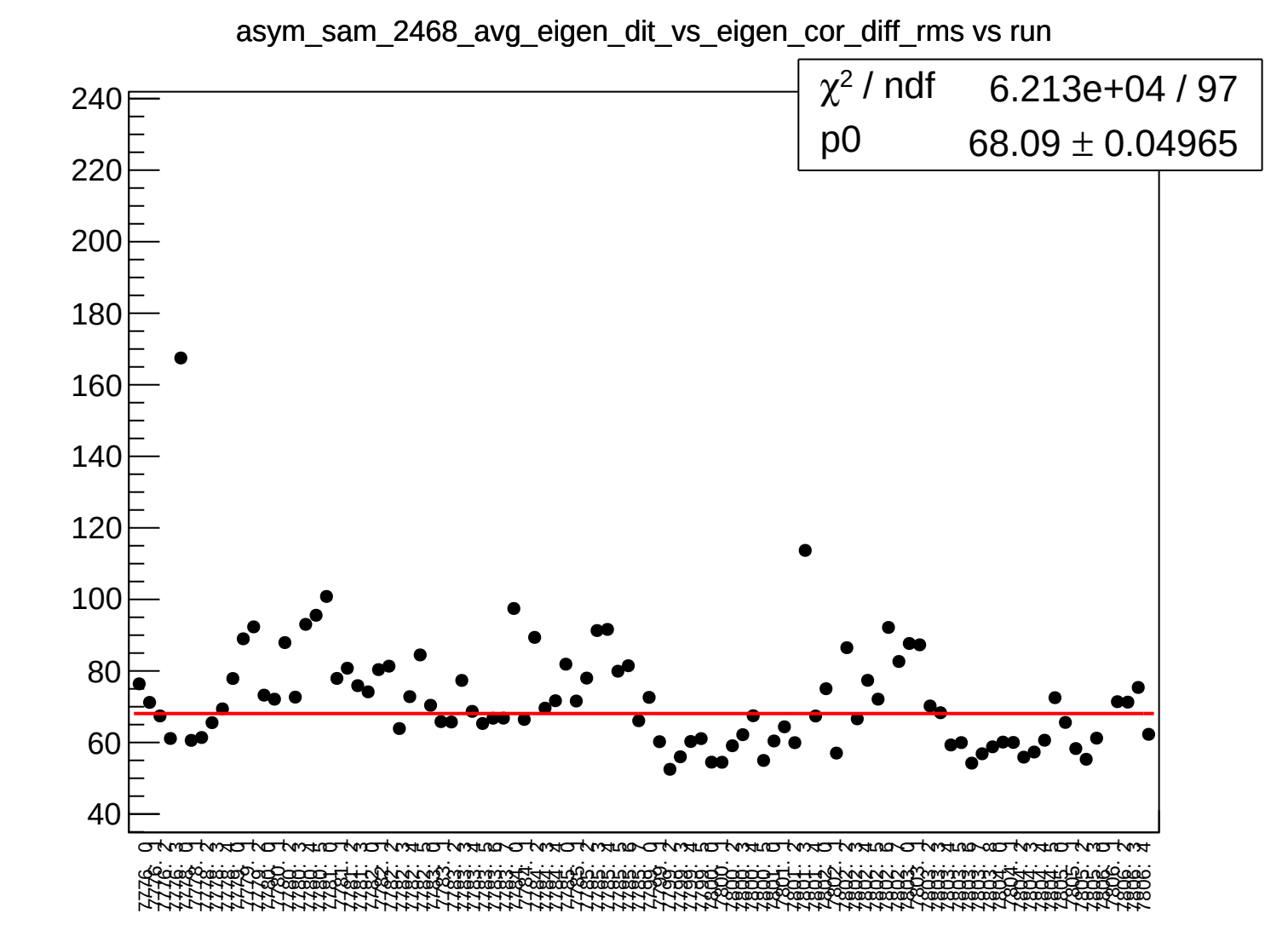

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.924e+05 / 97
p0 0.001556 ± 1.339e−06
0.01
0.008
0.006
0.004
0.002

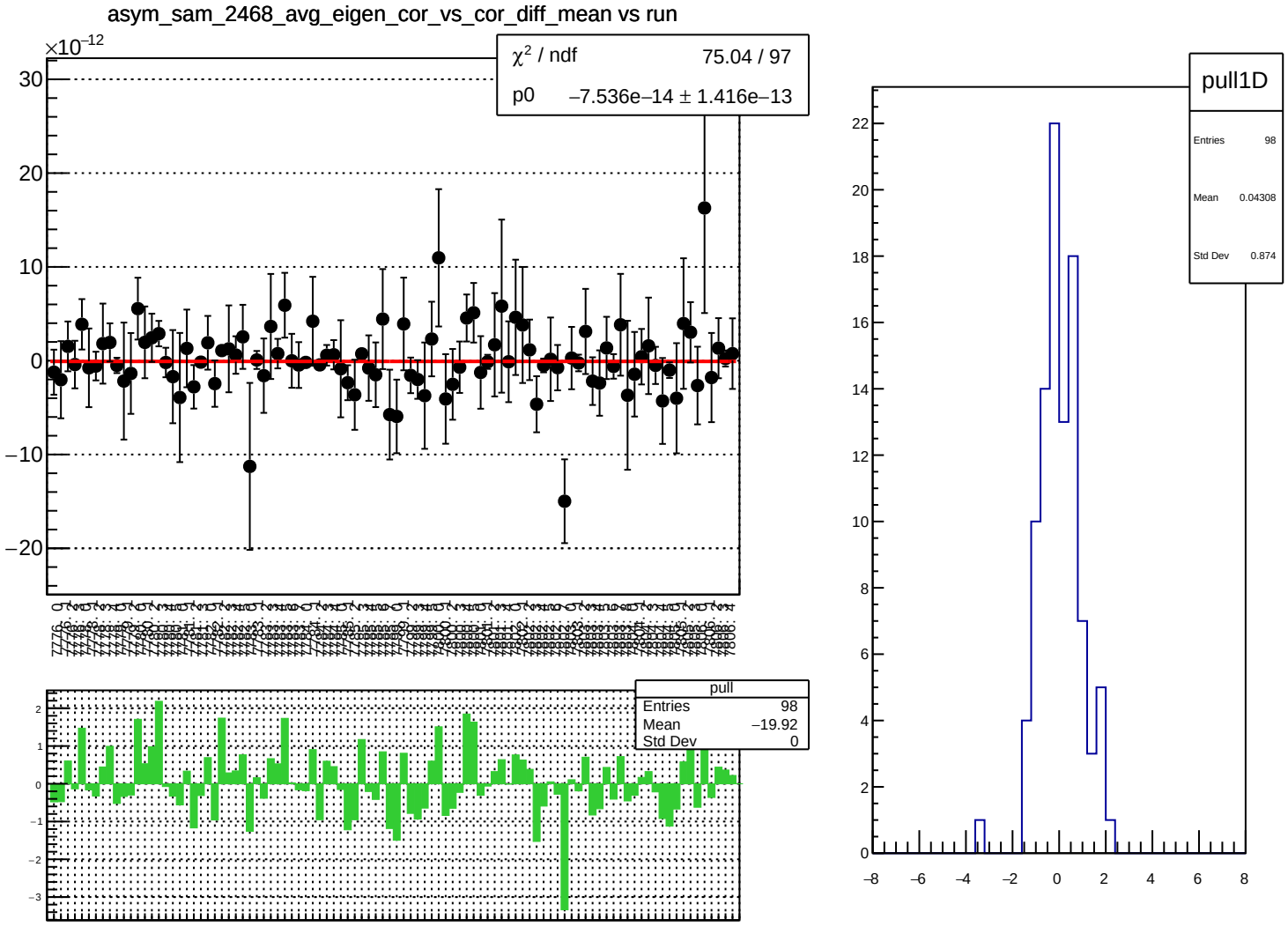

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.27 / 97
p0 0.06768 ± 0.07022
pull
Entries 98
Mean −280.5
Std Dev 0
pull1D
Entries 98
Mean 0.009941
Std Dev 0.9544

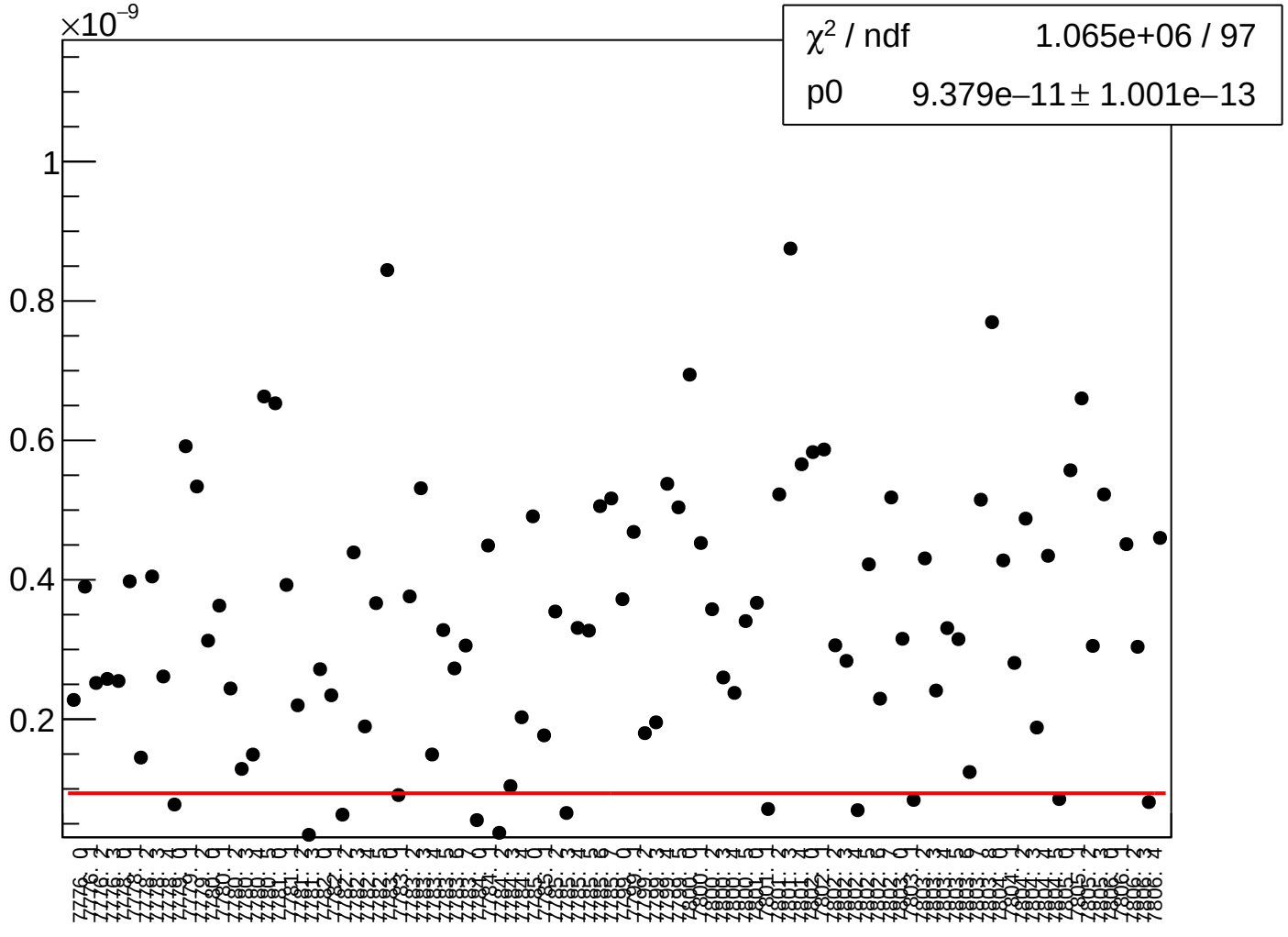

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.213e+04 / 97
p0 68.09 ± 0.04965
240
220
200
180
160
140
120
100
80
60
40

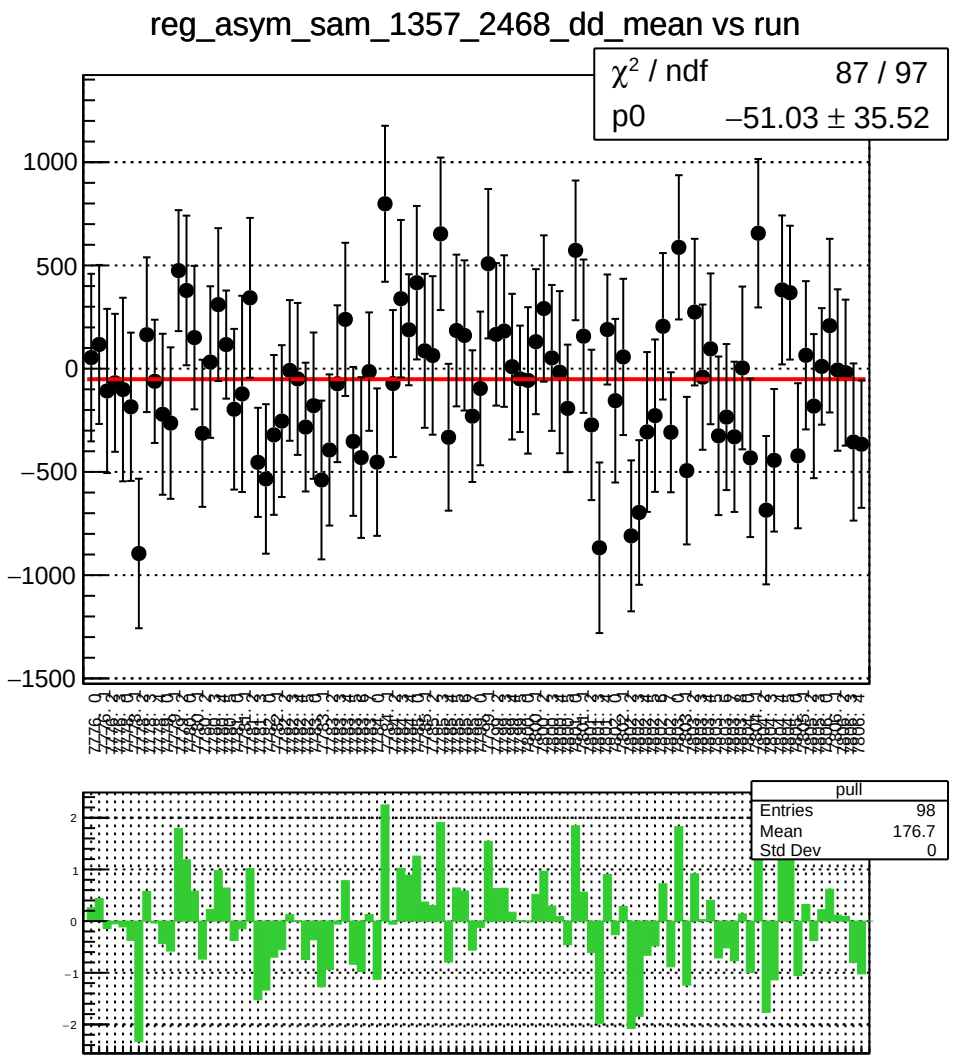

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.27 / 97
p0 0.06768 ± 0.07022
pull
Entries 98
Mean −280.5
Std Dev 0

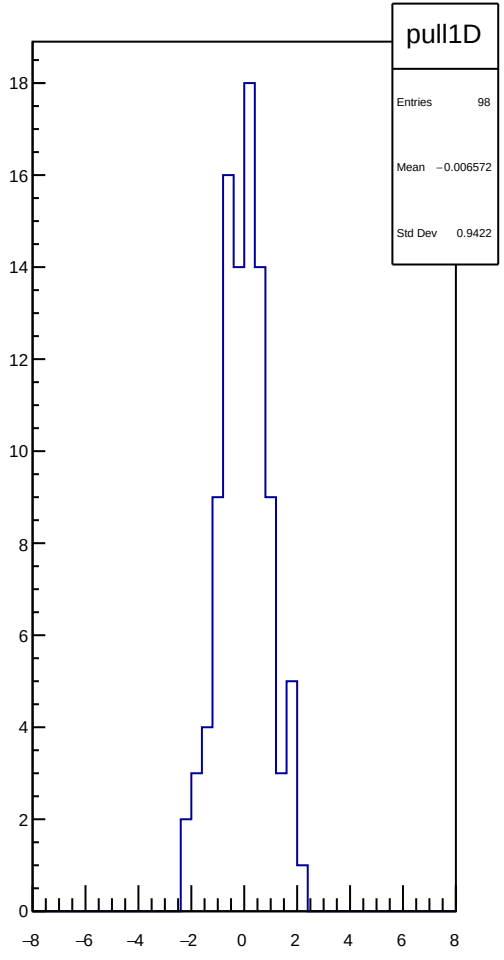

pull1D
Entries 98
Mean 0.009941
Std Dev 0.9544

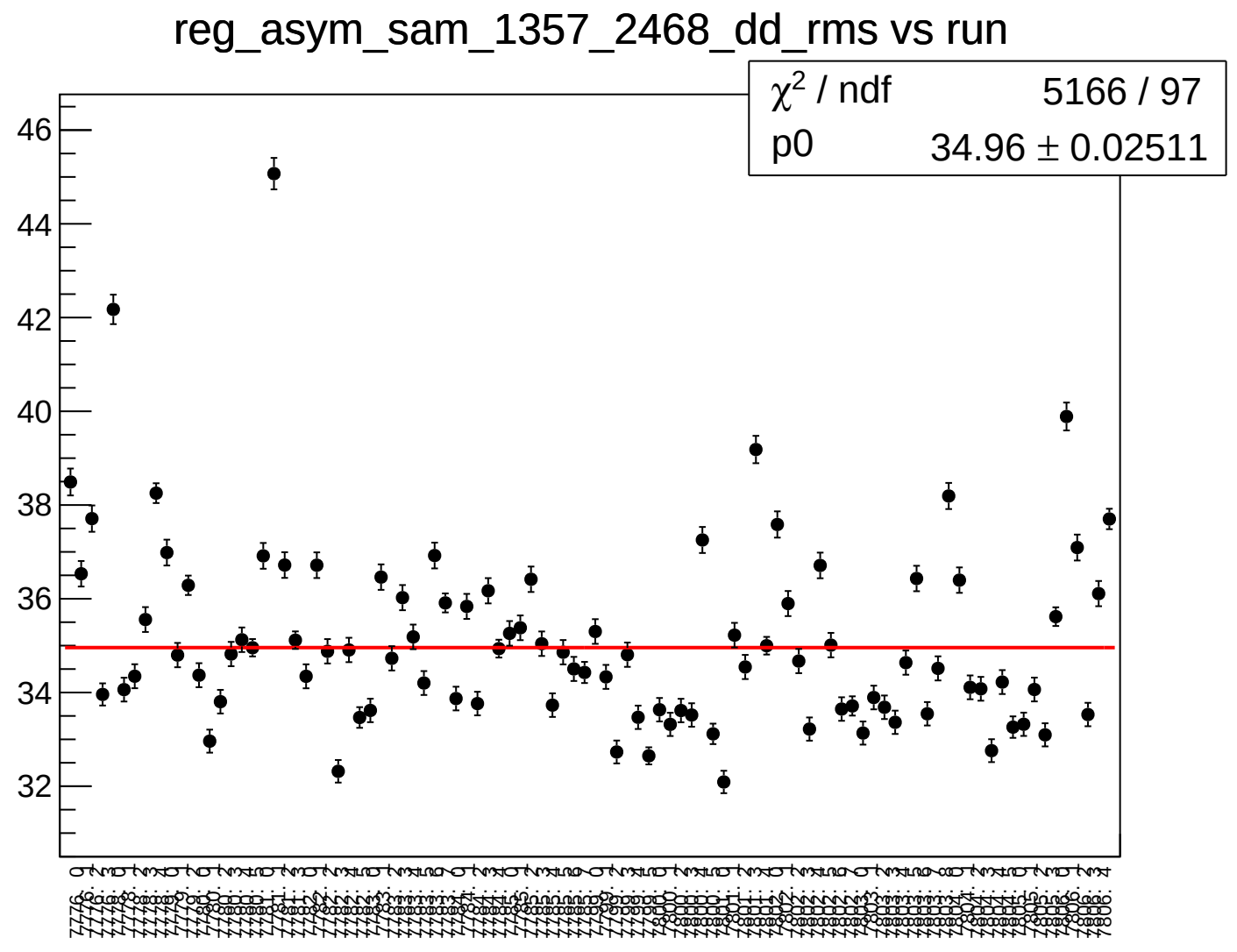

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.213e+04 / 97
p0 68.09 ± 0.04965
240
220
200
180
160
140
120
100
80
60
40

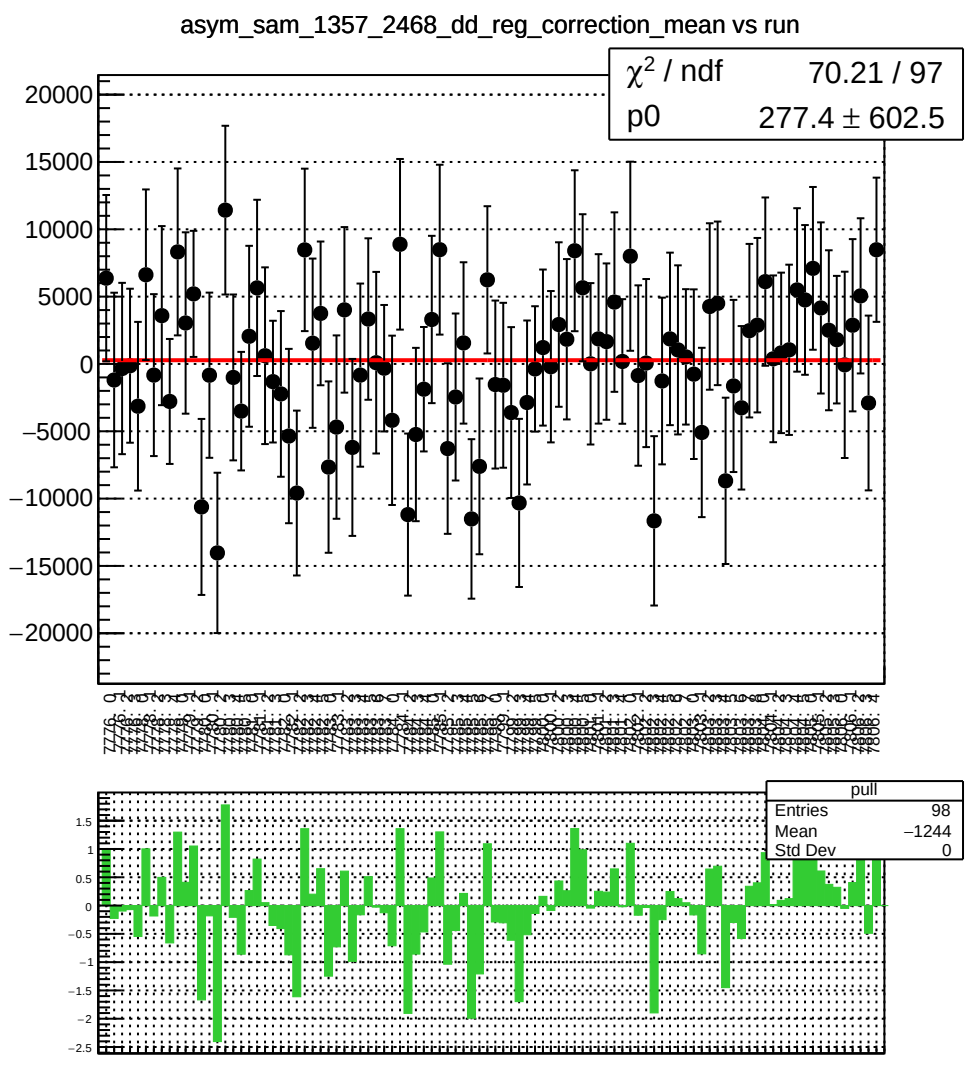

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.04 / 97
p0 −7.536e−14 ± 1.416e−13
pull
Entries 98
Mean −19.92
Std Dev 0
pull1D
Entries 98
Mean 0.04308
Std Dev 0.874

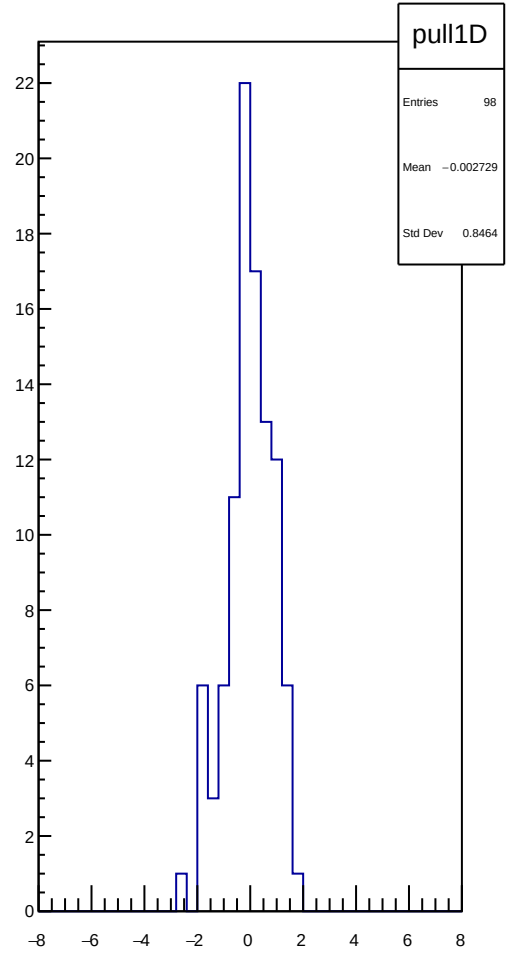

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.065e+06 / 97
p0 9.379e−11 ± 1.001e−13
1
0.8
0.6
0.4
0.2

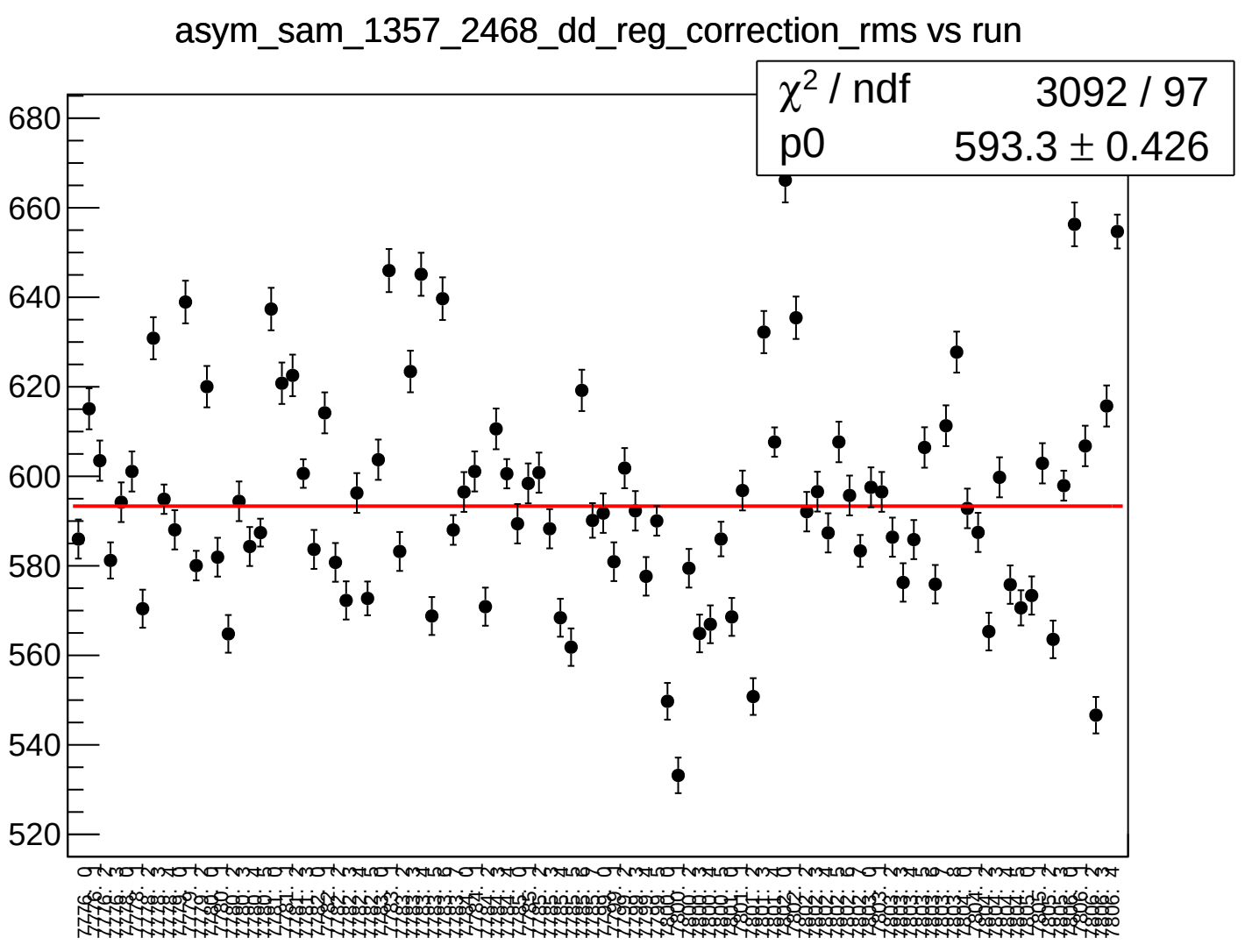

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 87 / 97
p0 −51.03 ± 35.52
1000
500
0
−500
−1000
−1500
pull
Entries 98
Mean 176.7
Std Dev 0
2
1
0
−1
−2

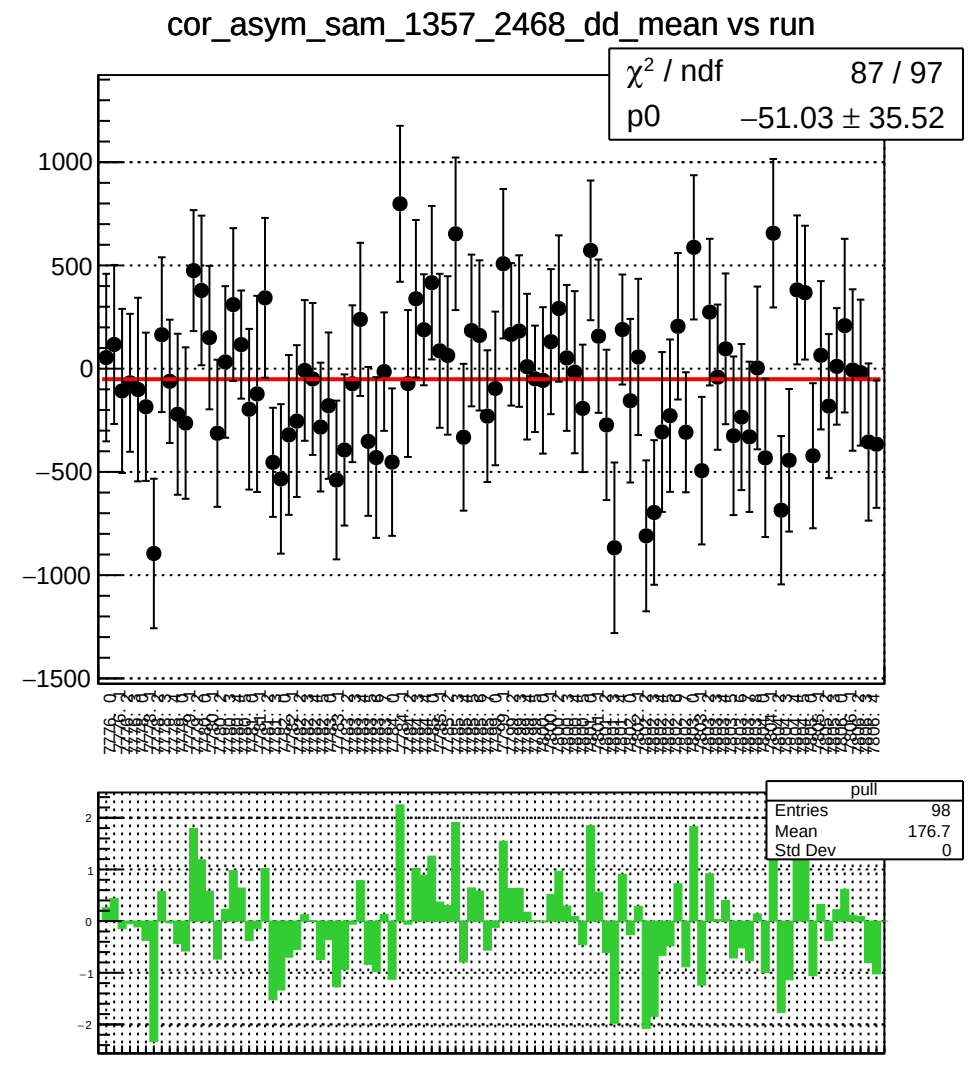

pull1D
Entries 98
Mean −0.006572
Std Dev 0.9422
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

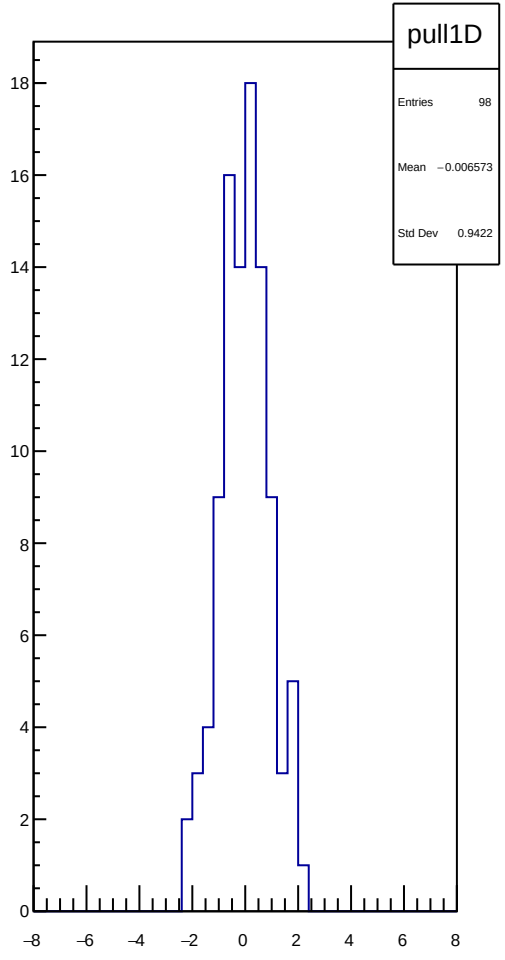

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5166 / 97
p0 34.96 ± 0.02511
46
44
42
40
38
36
34
32

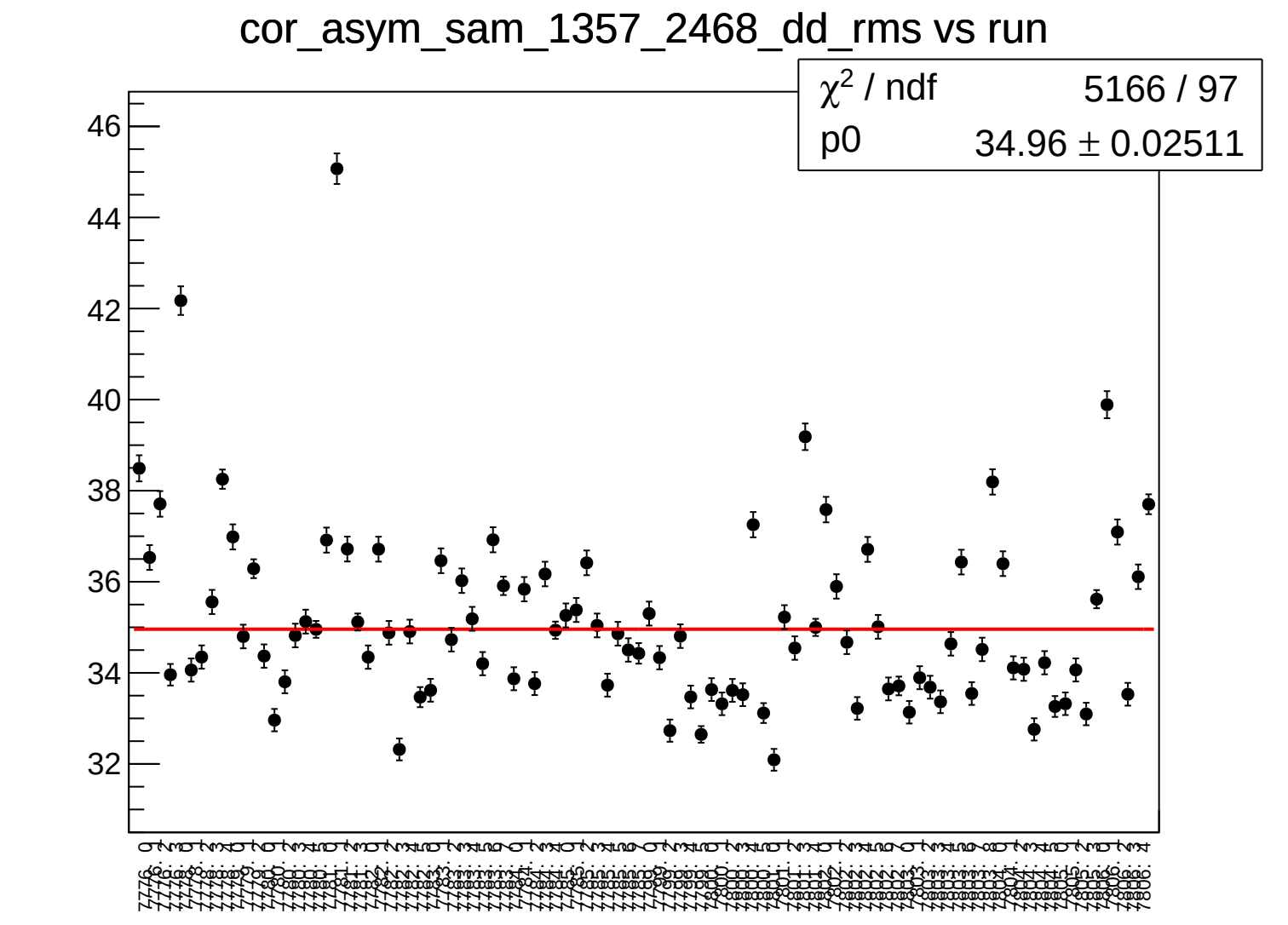

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 70.21 / 97
p0 277.4 ± 602.5
pull
Entries 98
Mean −1244
Std Dev 0

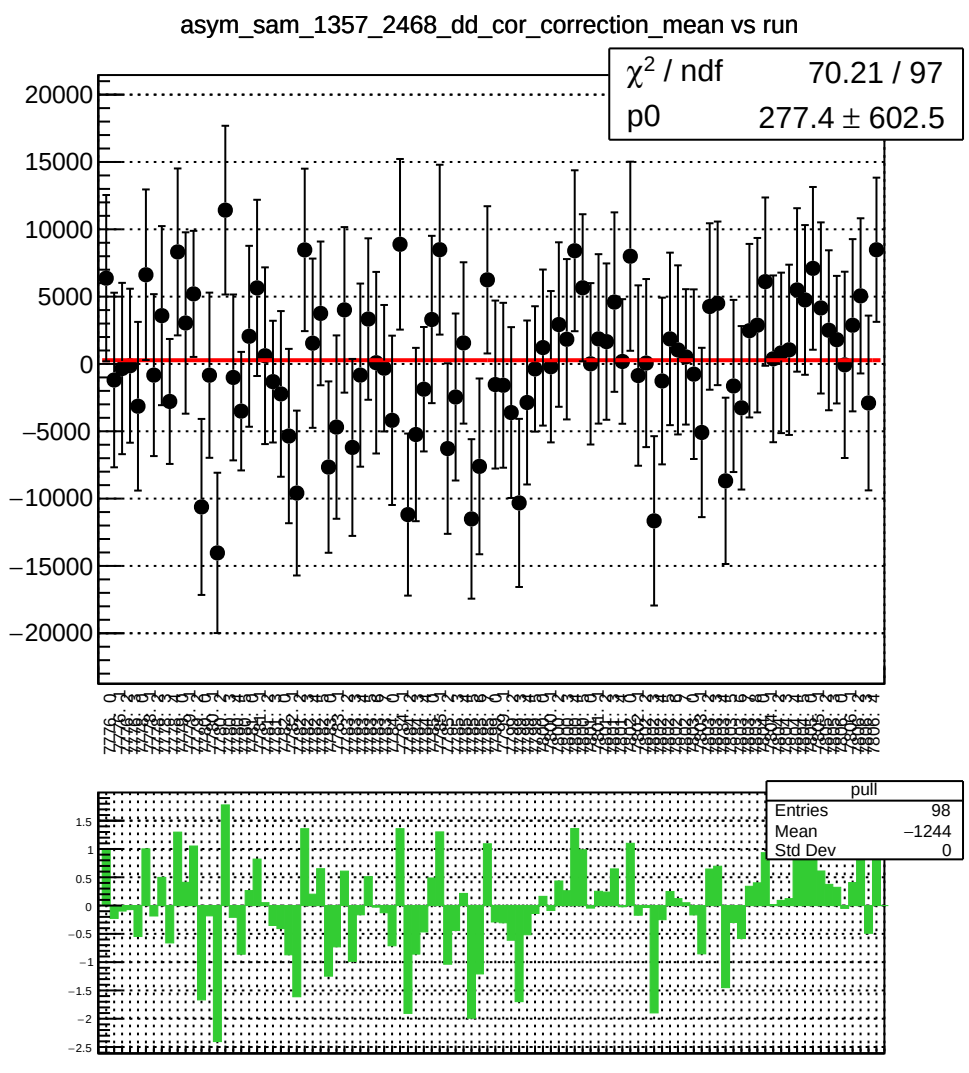

pull1D
Entries 98
Mean −0.002729
Std Dev 0.8464

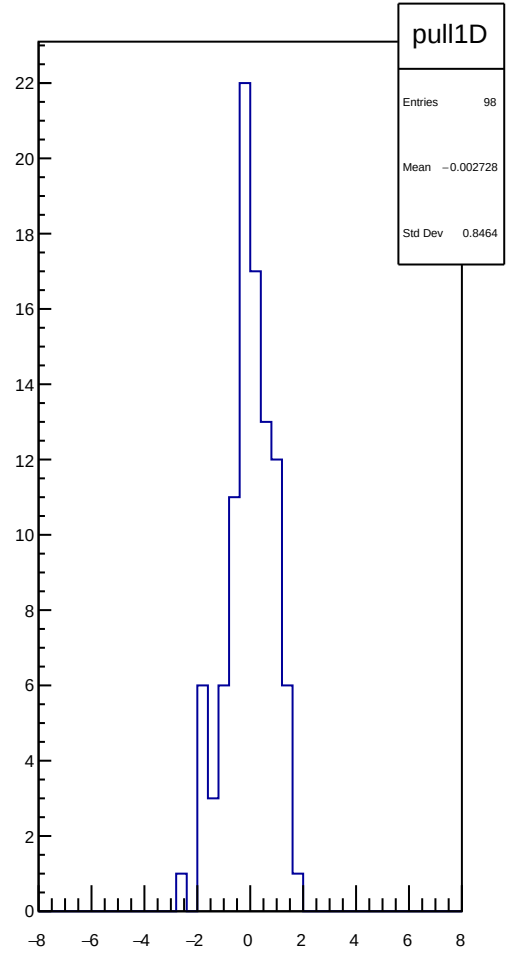

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 3092 / 97
p0 593.3 ± 0.426
680
660
640
620
600
580
560
540
520

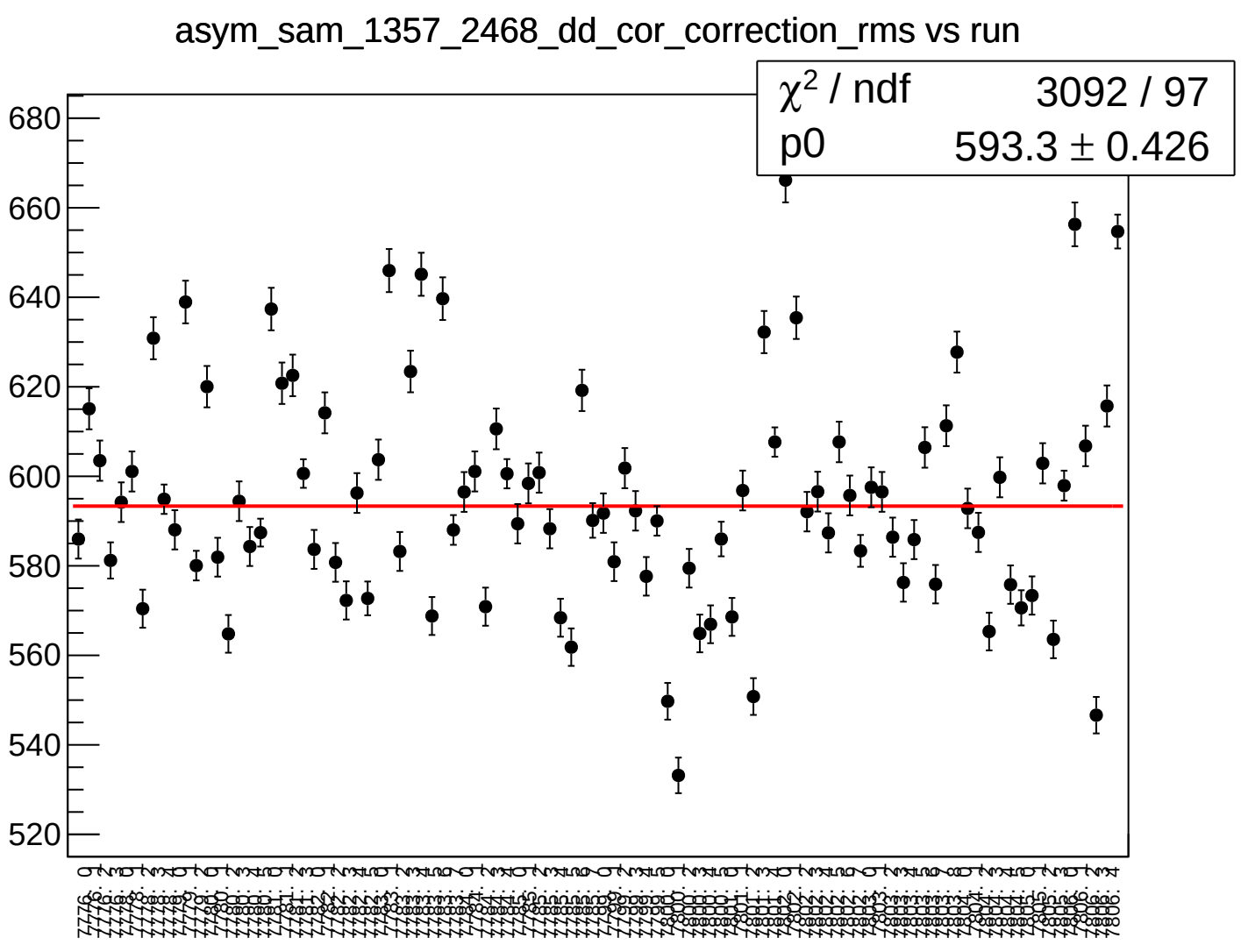

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 87 / 97
p0 −51.03 ± 35.52
1000
500
0
−500
−1000
−1500
pull
Entries 98
Mean 176.7
Std Dev 0
2
1
0
−1
−2

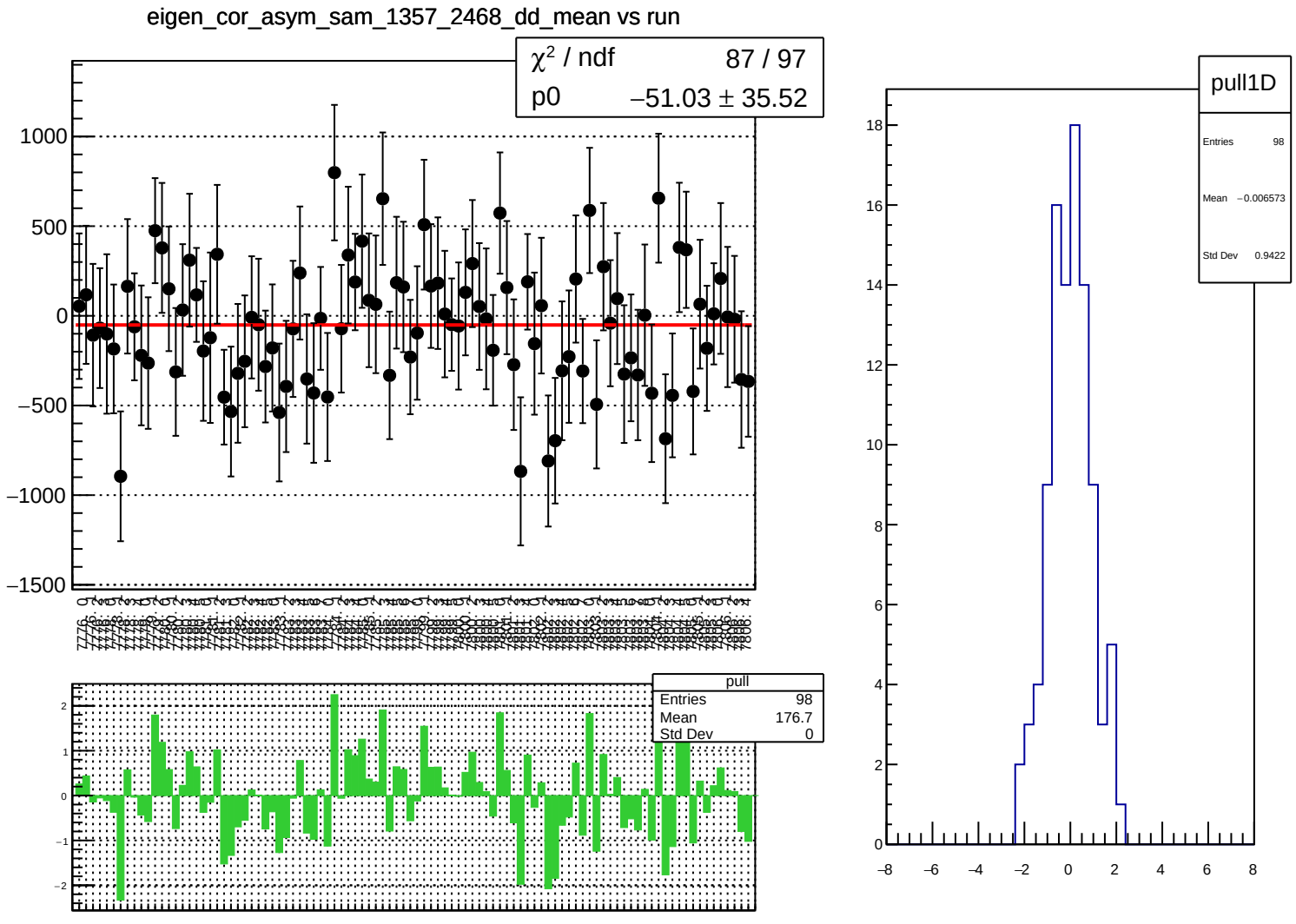

pull1D
Entries 98
Mean −0.006573
Std Dev 0.9422
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

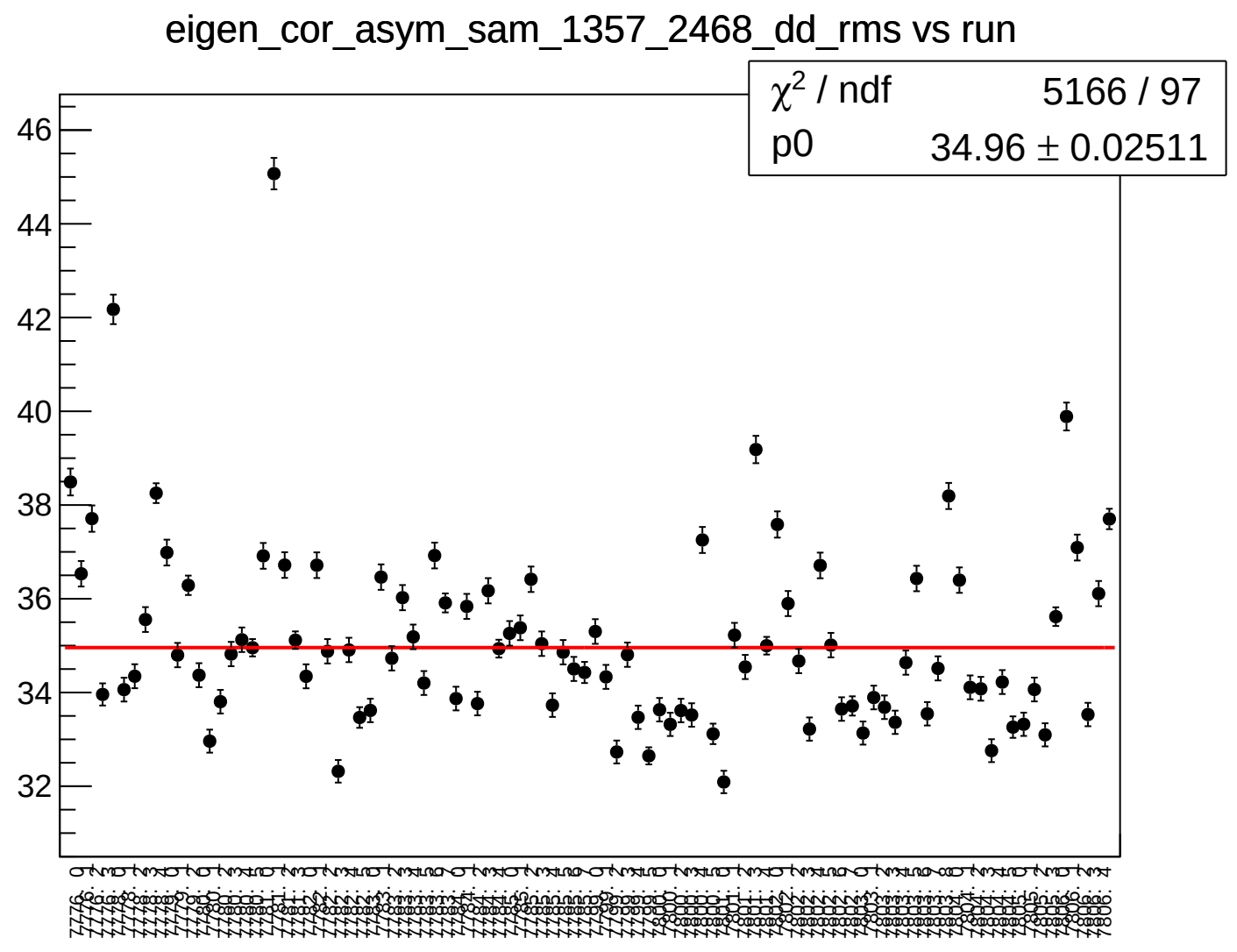

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5166 / 97
p0 34.96 ± 0.02511
46
44
42
40
38
36
34
32

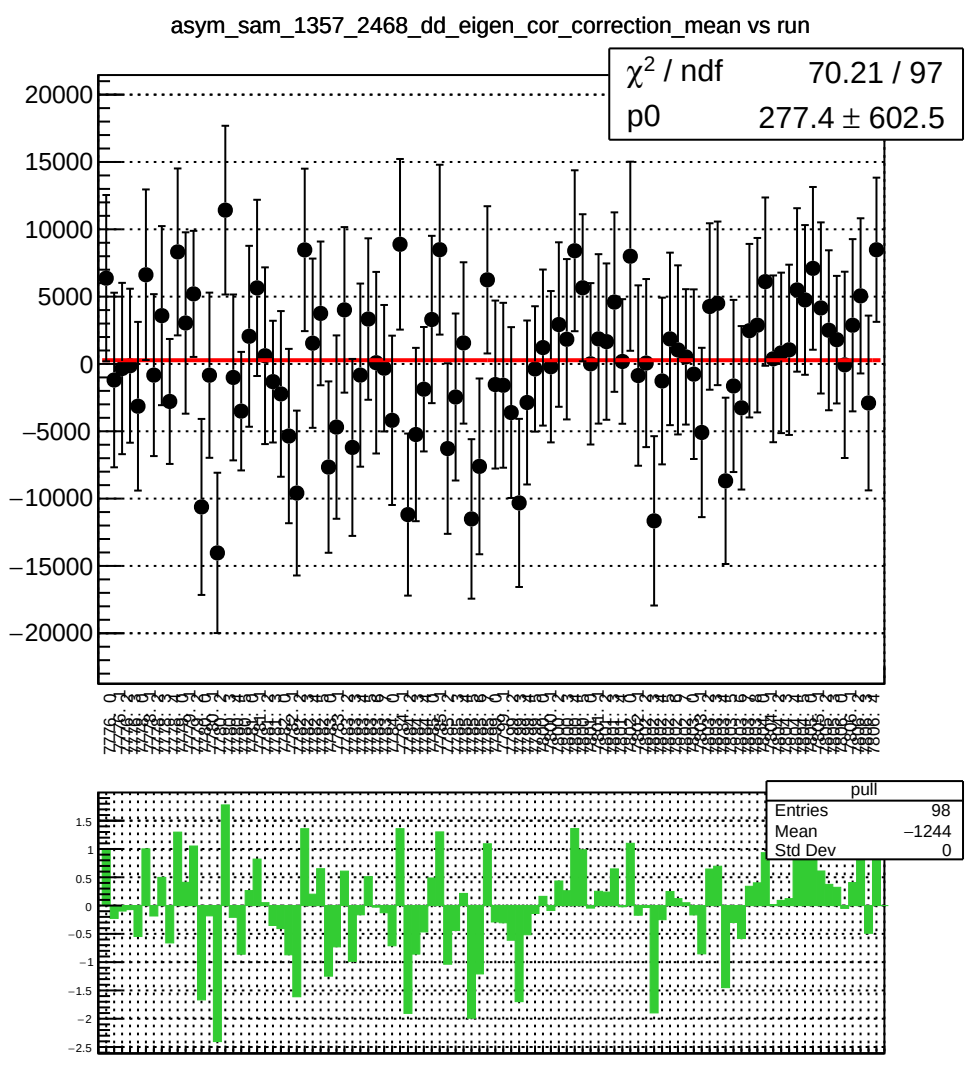

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 70.21 / 97
p0 277.4 ± 602.5
pull
Entries 98
Mean −1244
Std Dev 0

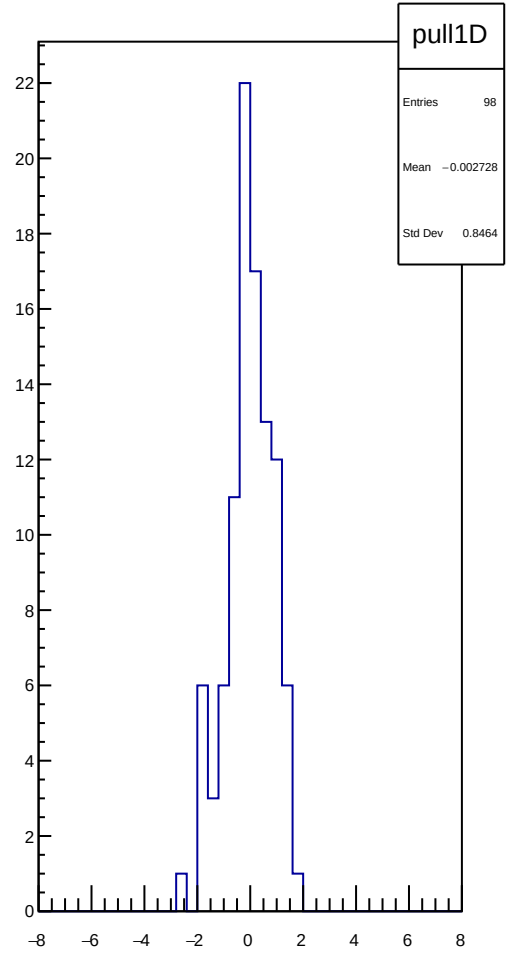

pull1D
Entries 98
Mean −0.002728
Std Dev 0.8464

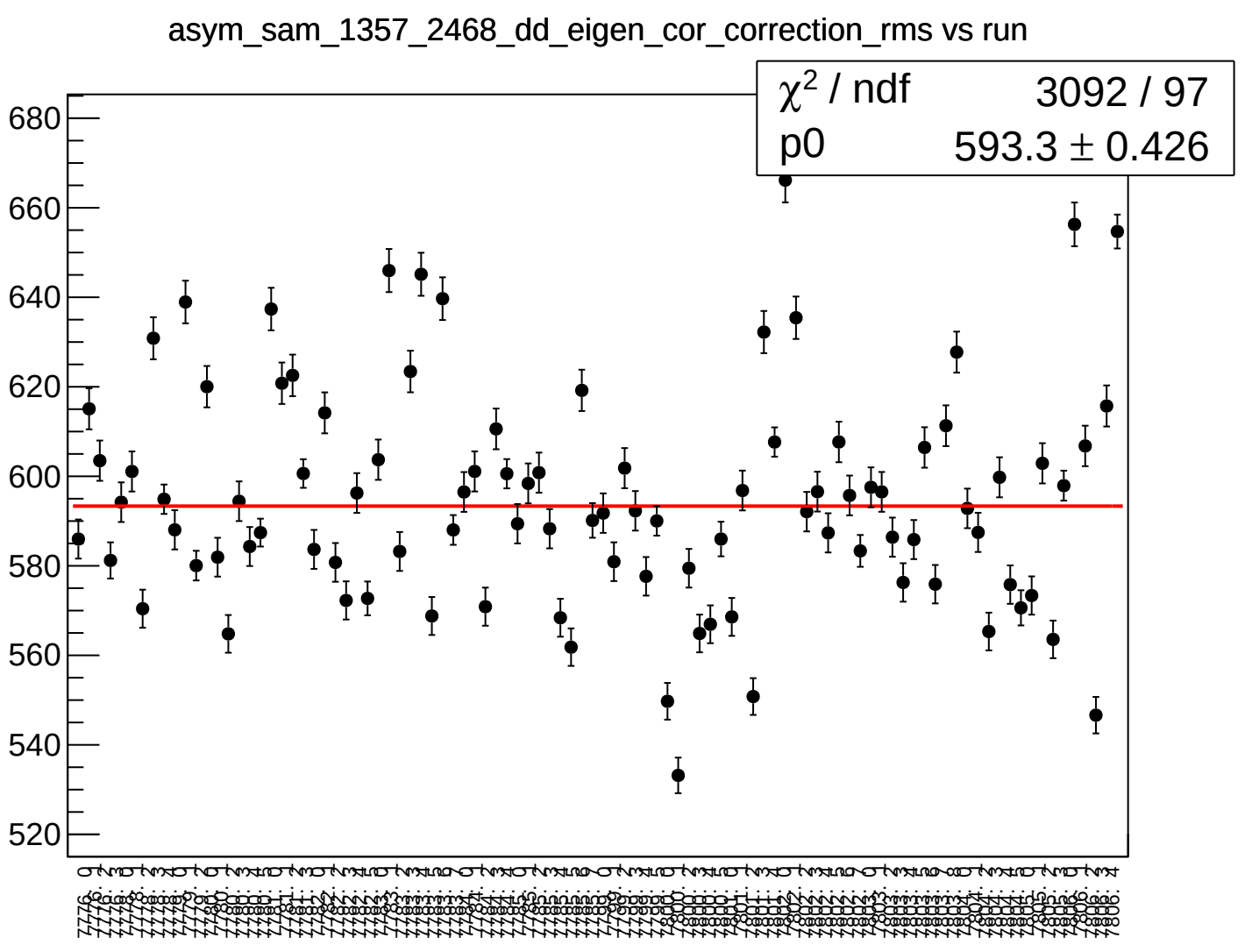

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 3092 / 97
p0 593.3 ± 0.426
680
660
640
620
600
580
560
540
520

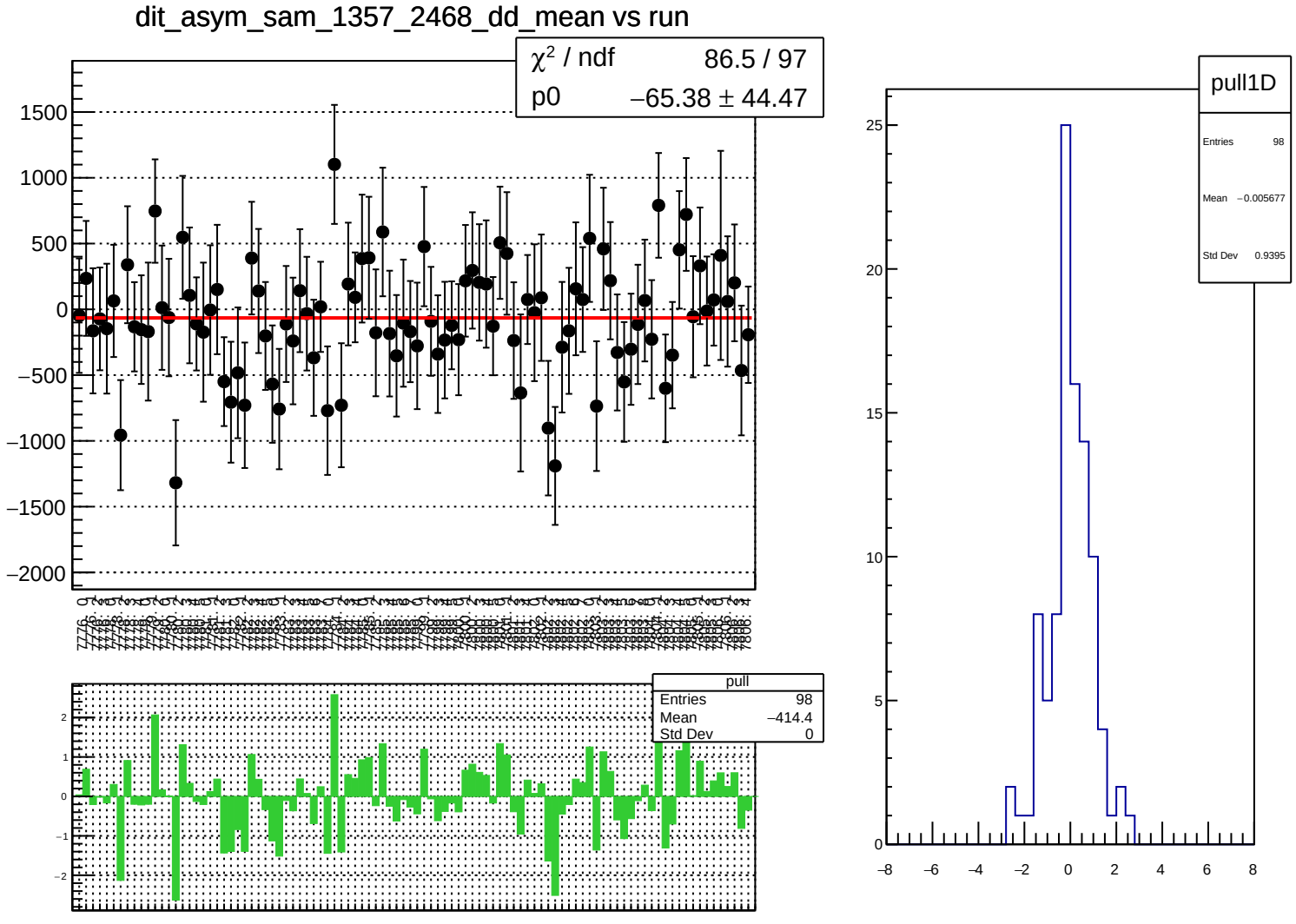

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 87 / 97
p0 −51.03 ± 35.52
1000
500
0
−500
−1000
−1500
pull
Entries 98
Mean 176.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.006573
Std Dev 0.9422
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

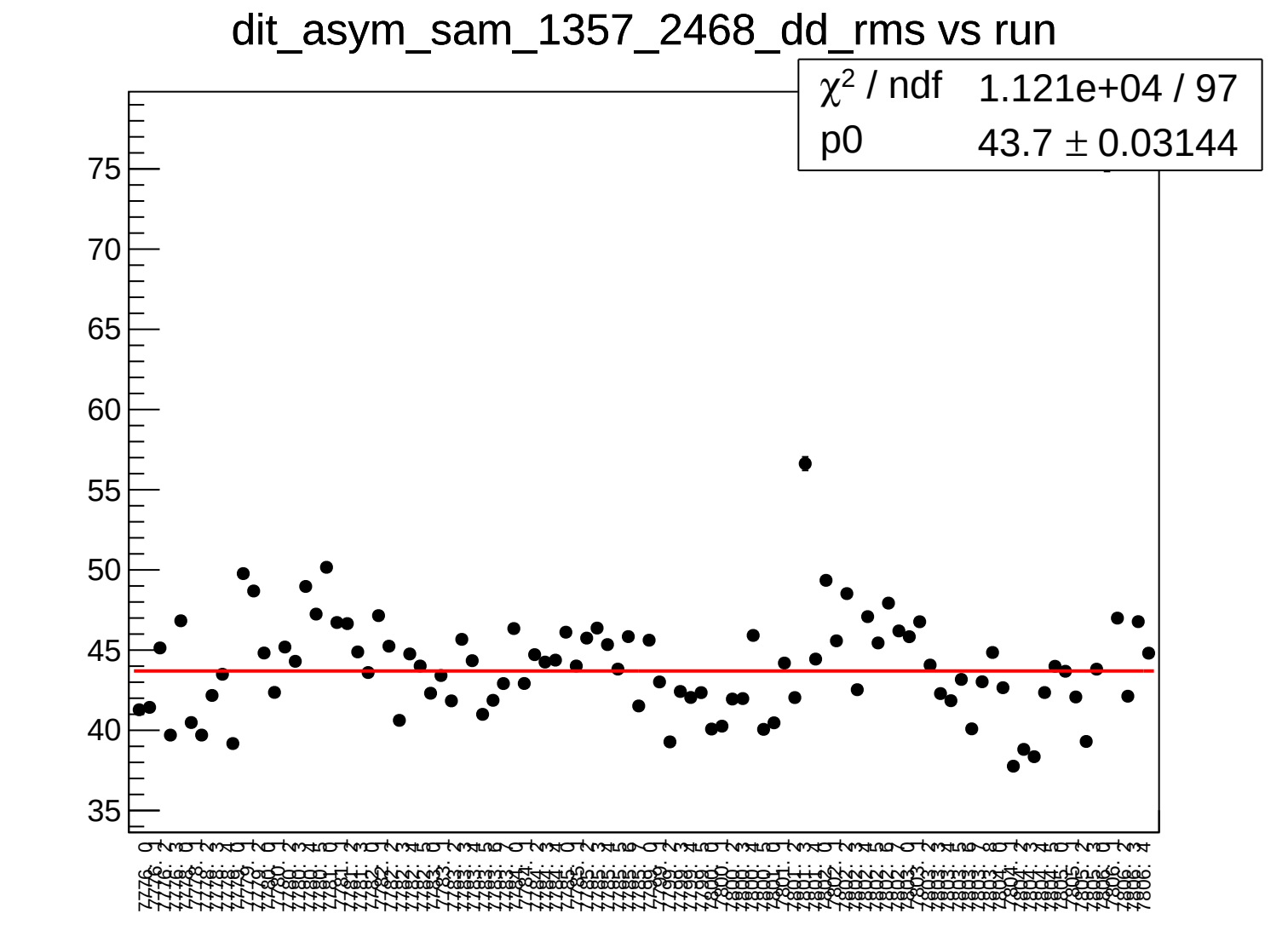

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5166 / 97
p0 34.96 ± 0.02511
46
44
42
40
38
36
34
32

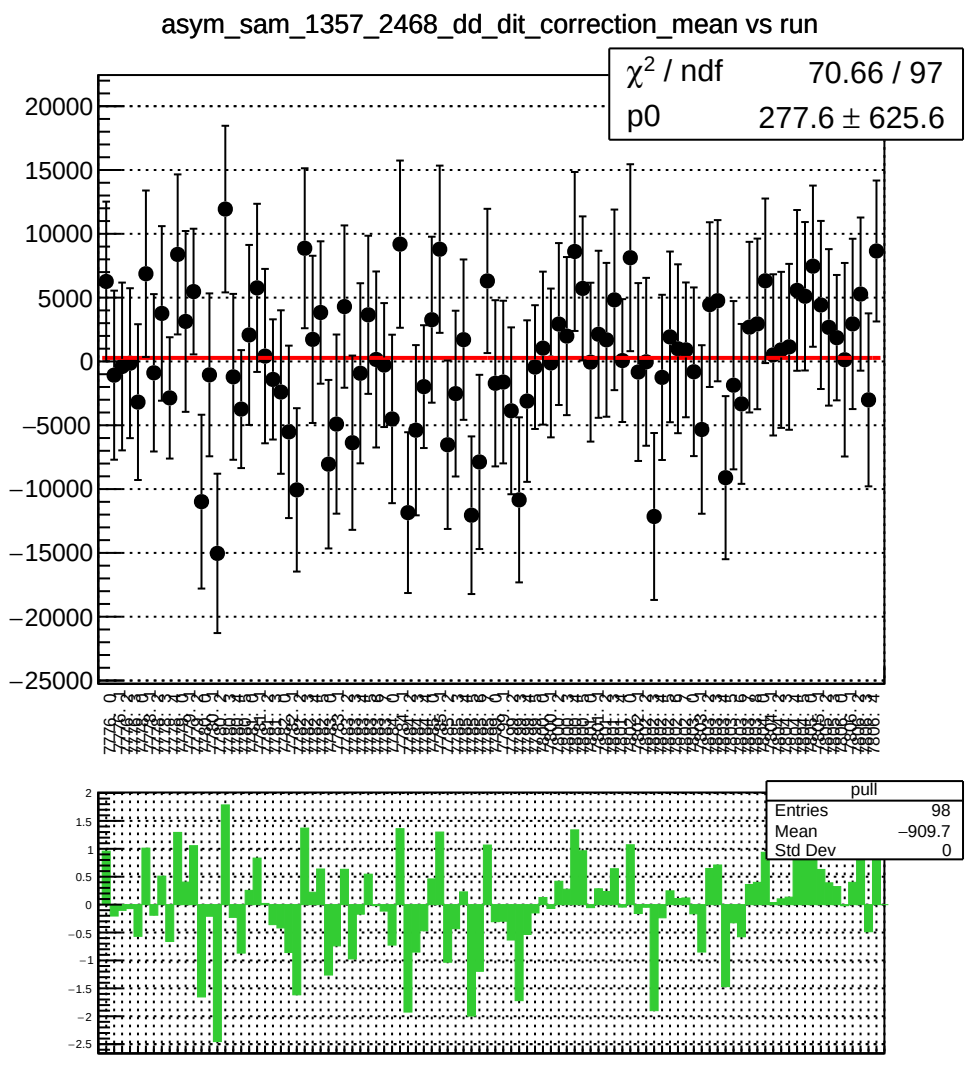

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.21 / 97
p0 277.4 ± 602.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 98
Mean −1244
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

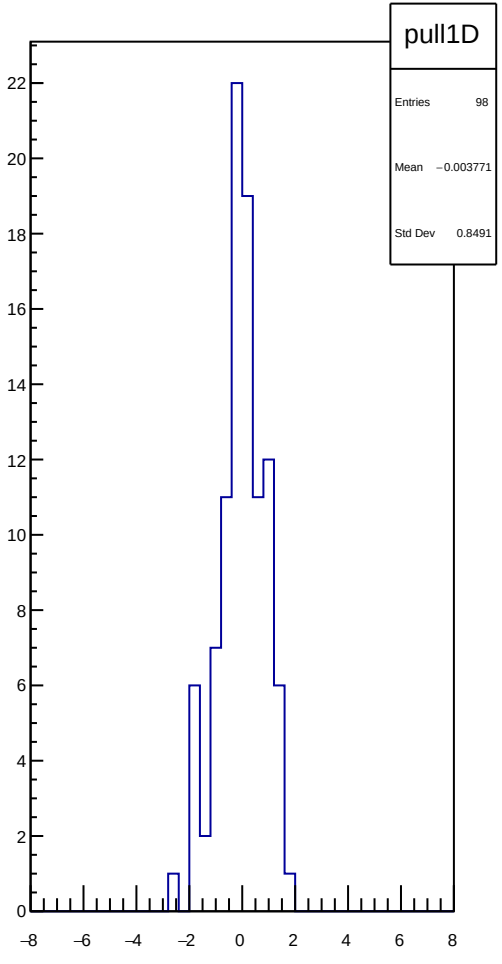

pull1D
Entries 98
Mean −0.002728
Std Dev 0.8464
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

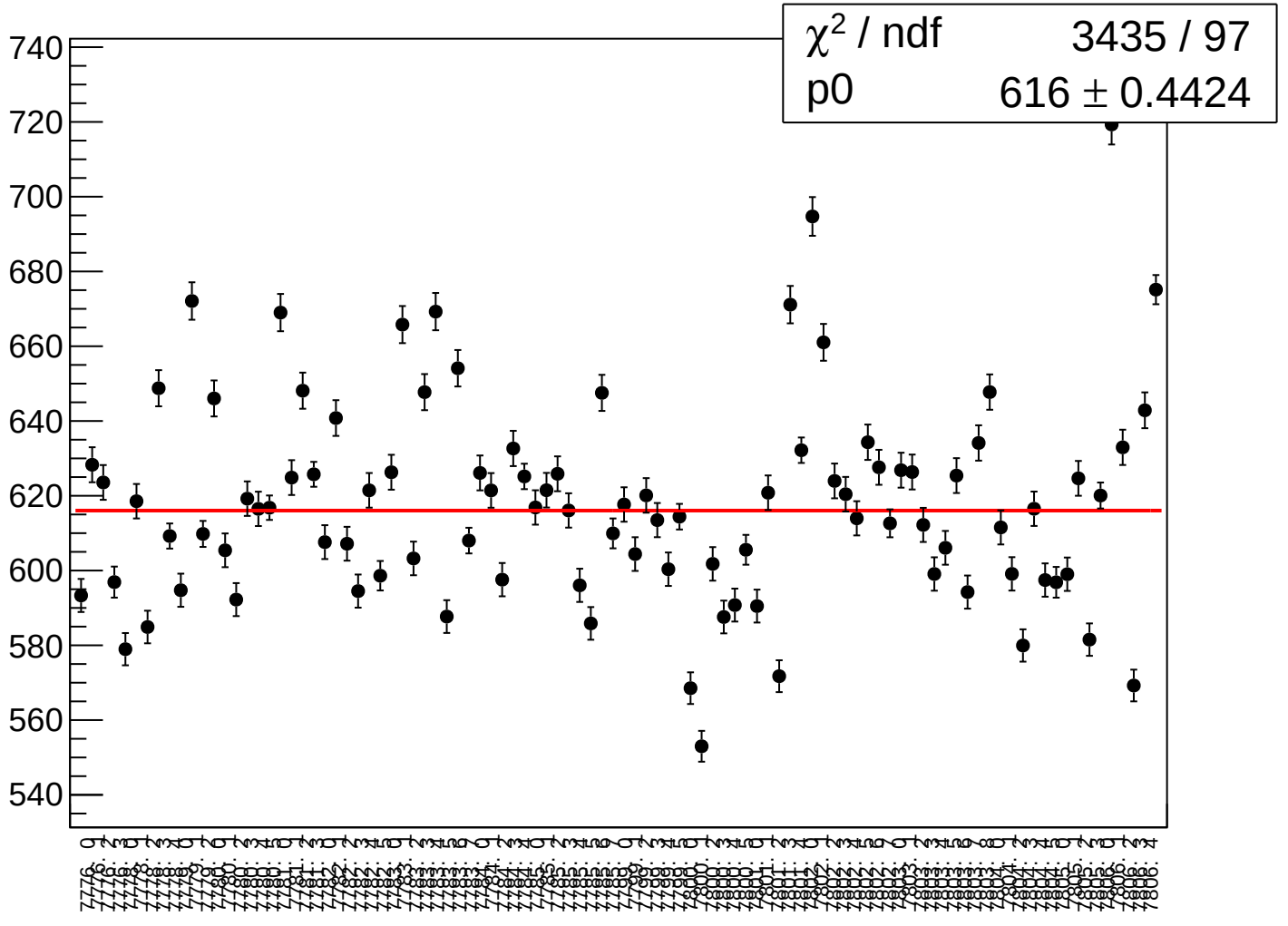

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 3092 / 97
p0 593.3 ± 0.426
680
660
640
620
600
580
560
540
520

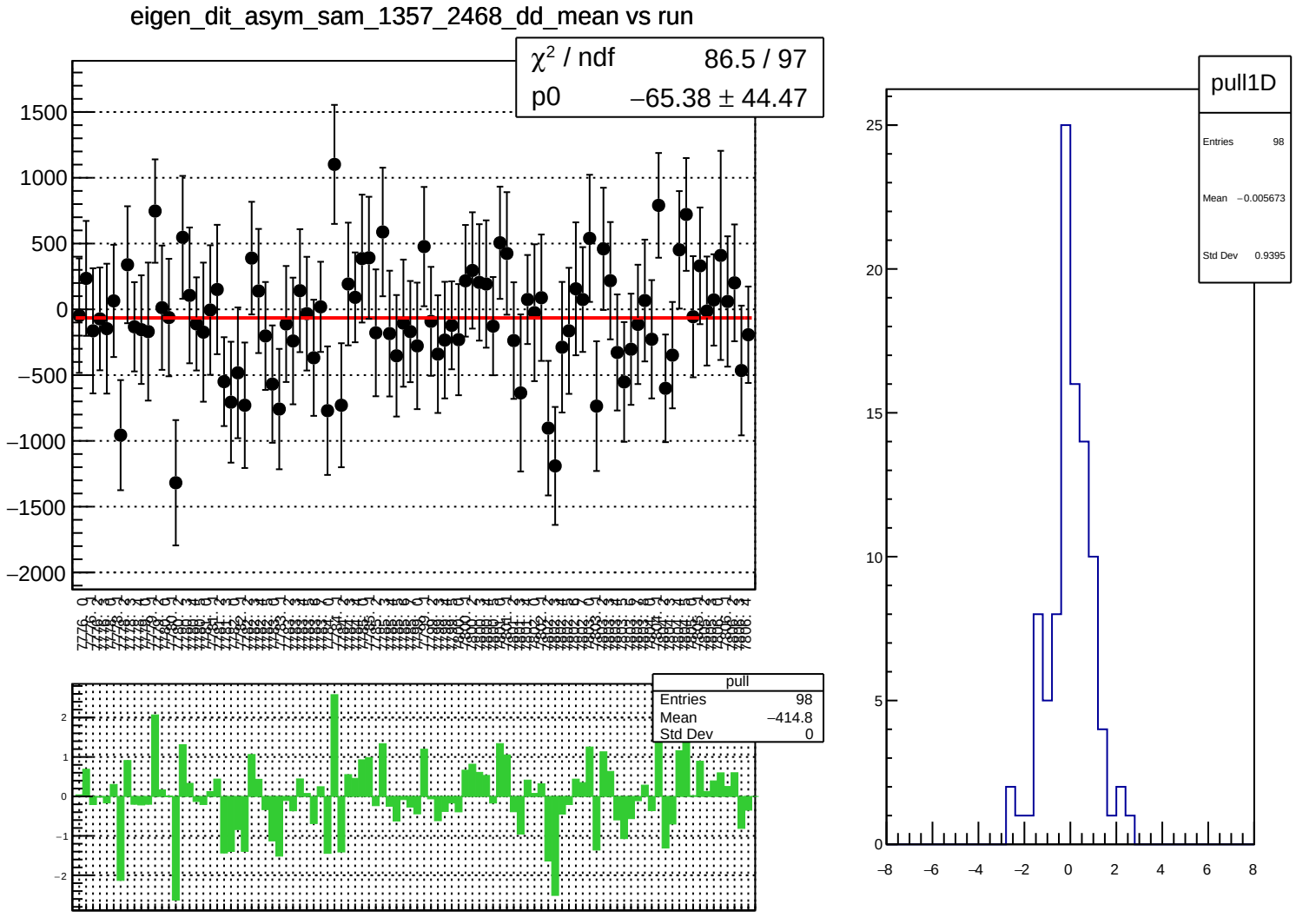

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.5 / 97
p0 −65.38 ± 44.47
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 98
Mean −414.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.005677
Std Dev 0.9395
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

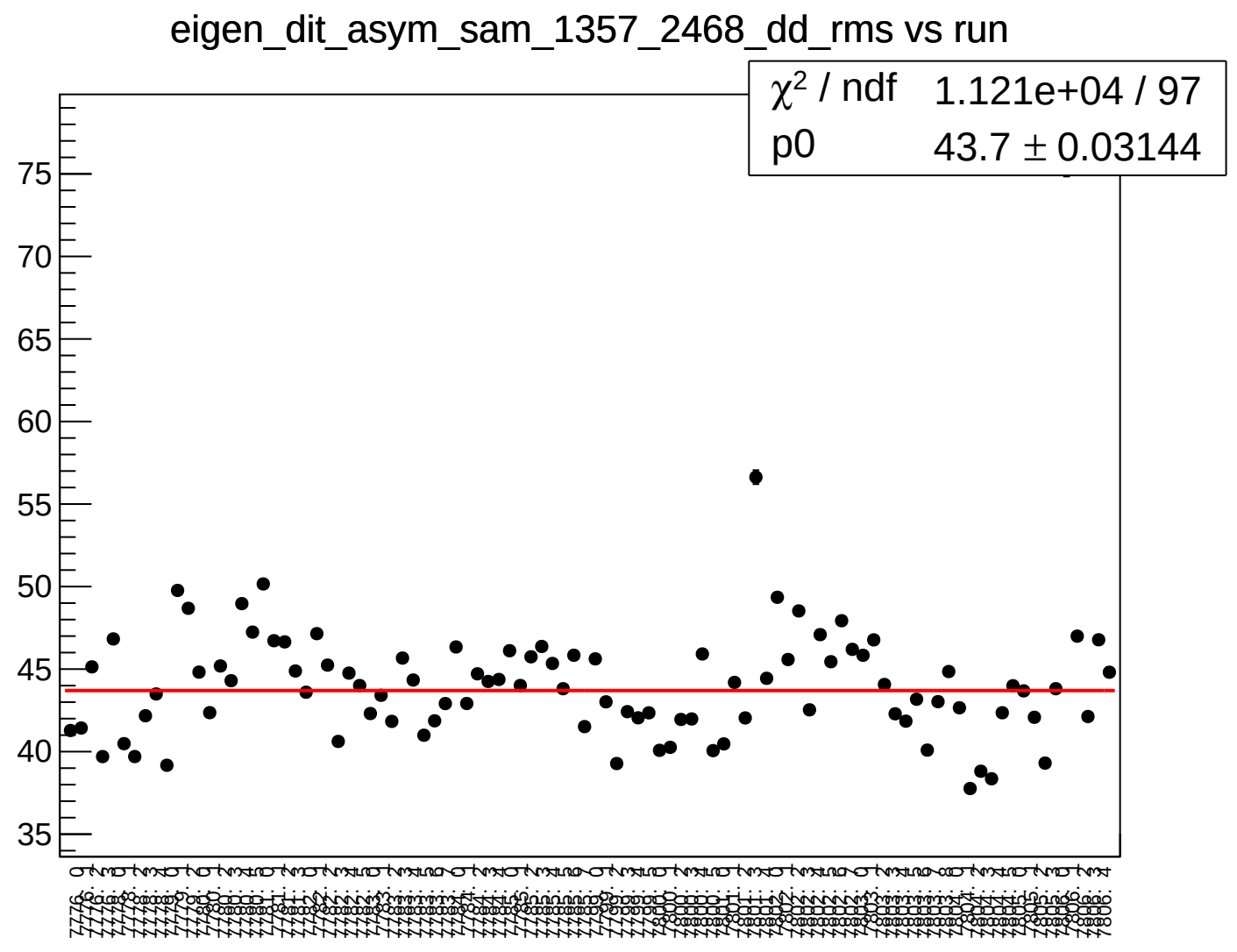

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.121e+04 / 97
p0 43.7 ± 0.03144
75
70
65
60
55
50
45
40
35

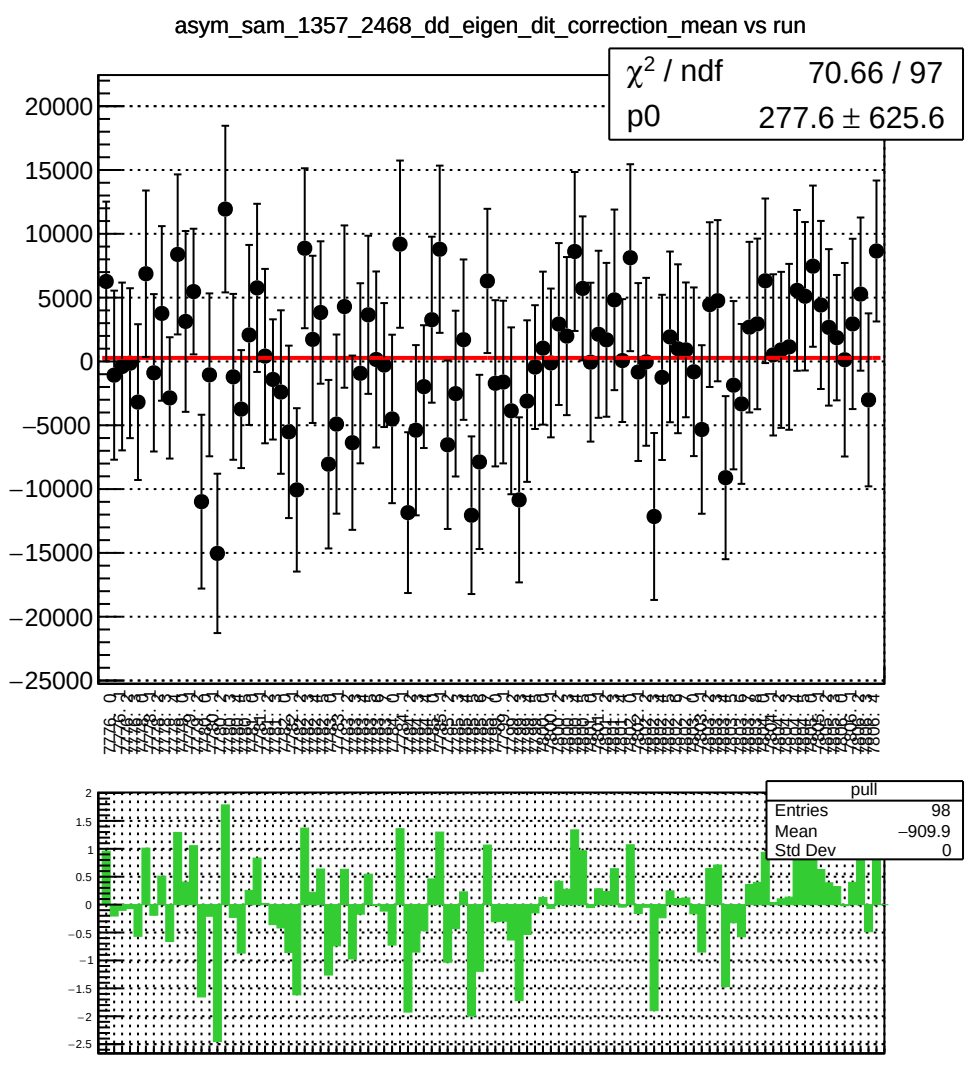

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 70.66 / 97
p0 277.6 ± 625.6
pull
Entries 98
Mean −909.7
Std Dev 0

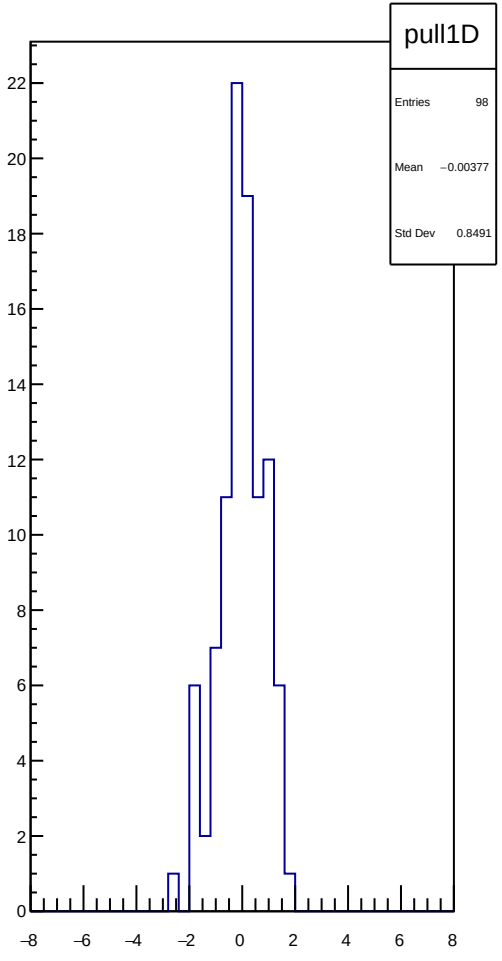

pull1D
Entries 98
Mean −0.003771
Std Dev 0.8491

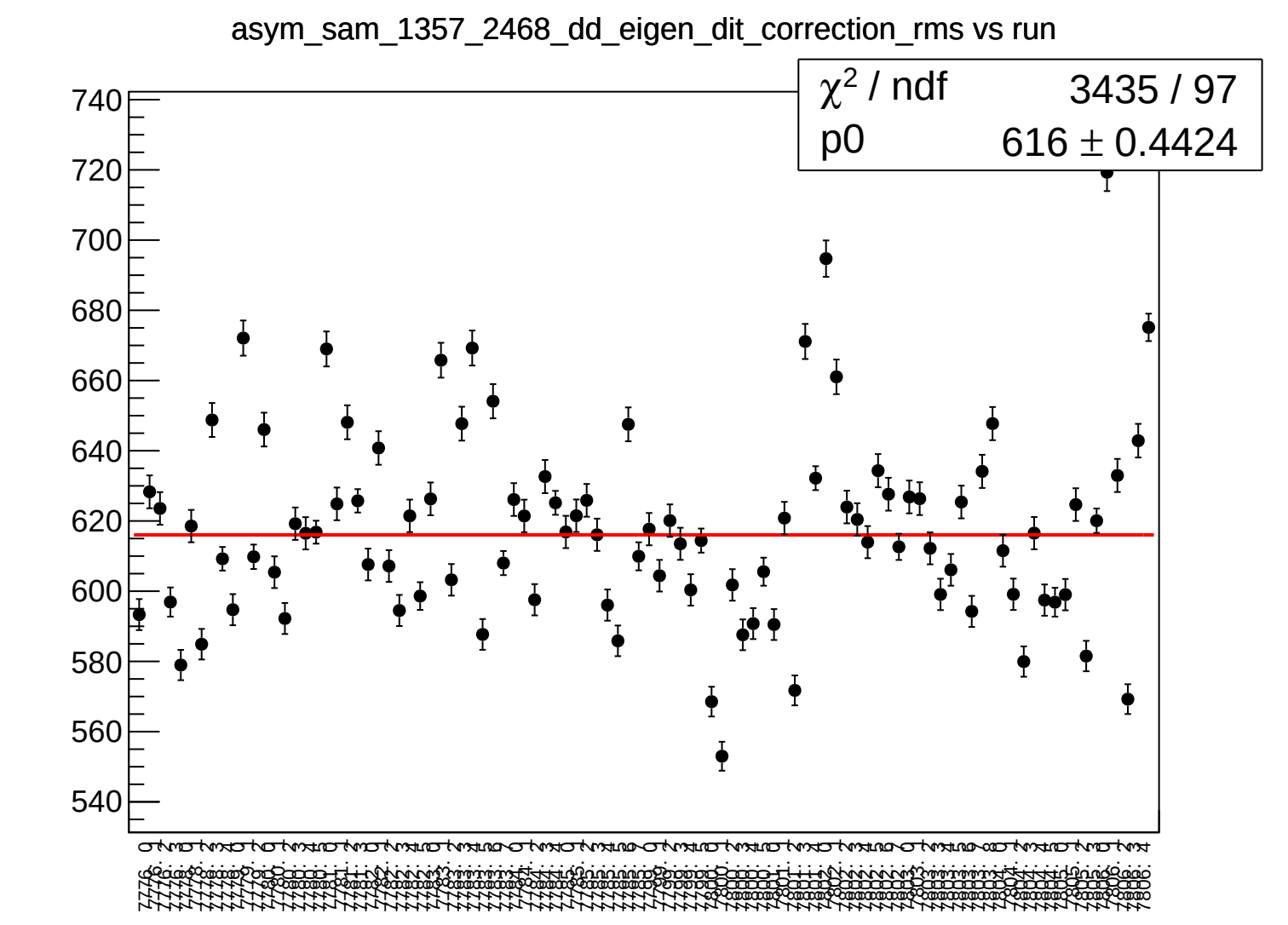

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ^2 / ndf 3435 / 97
p0 616 ± 0.4424
740
720
700
680
660
640
620
600
580
560
540

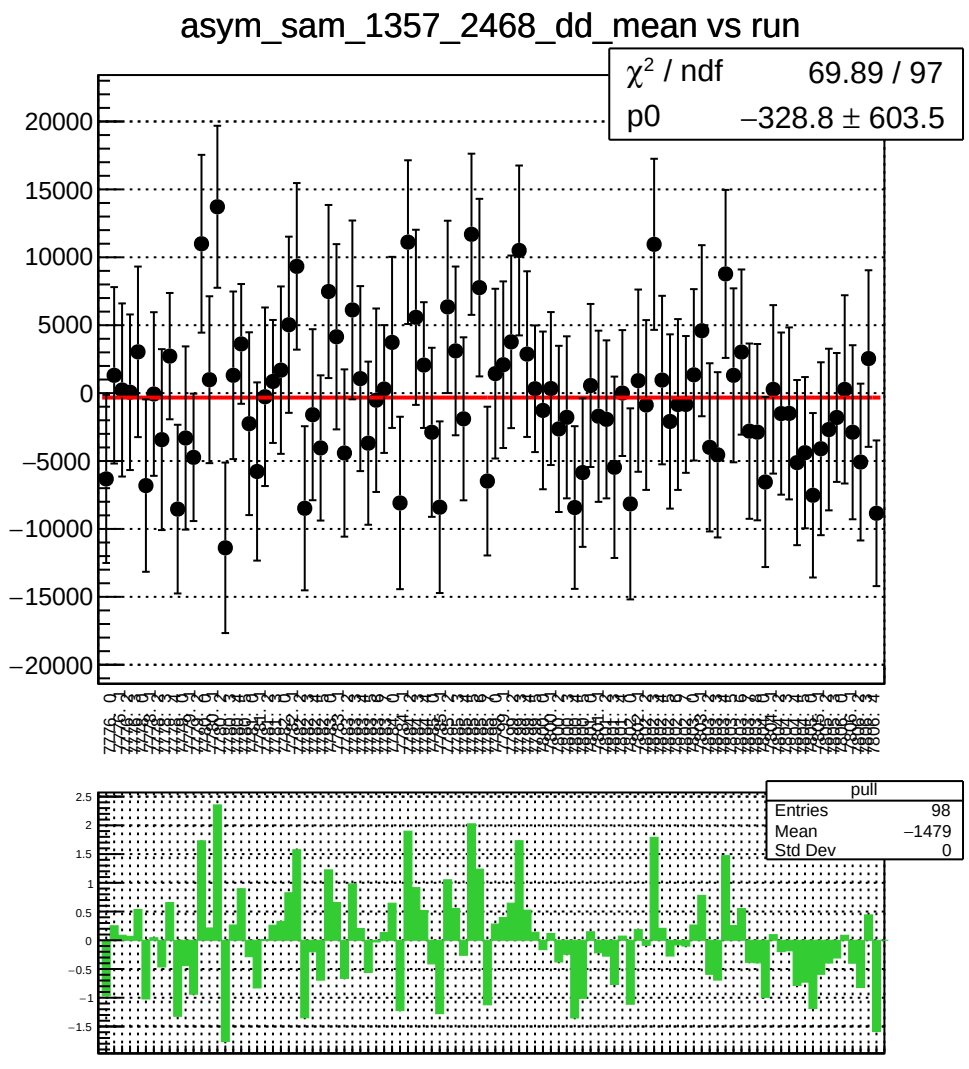

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.5 / 97
p0 −65.38 ± 44.47
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 98
Mean −414.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.005673
Std Dev 0.9395
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

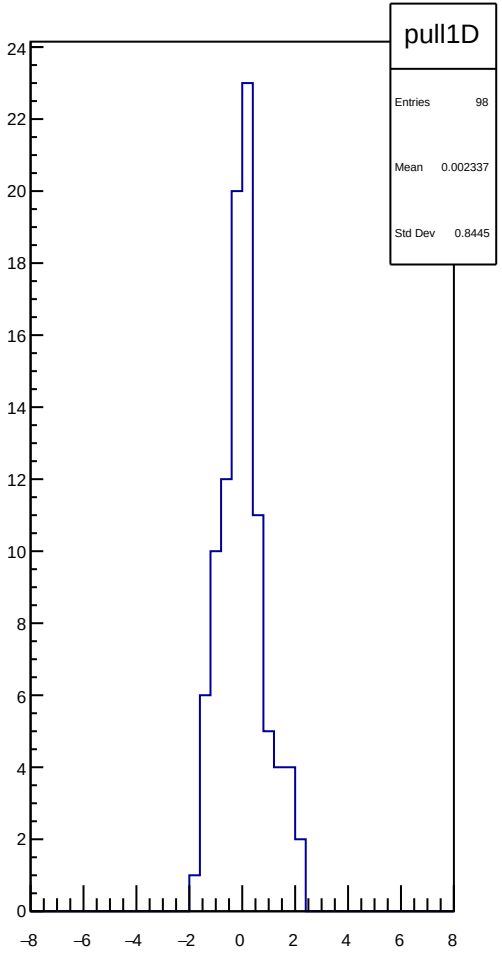

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.121e+04 / 97
p0 43.7 ± 0.03144
75
70
65
60
55
50
45
40
35

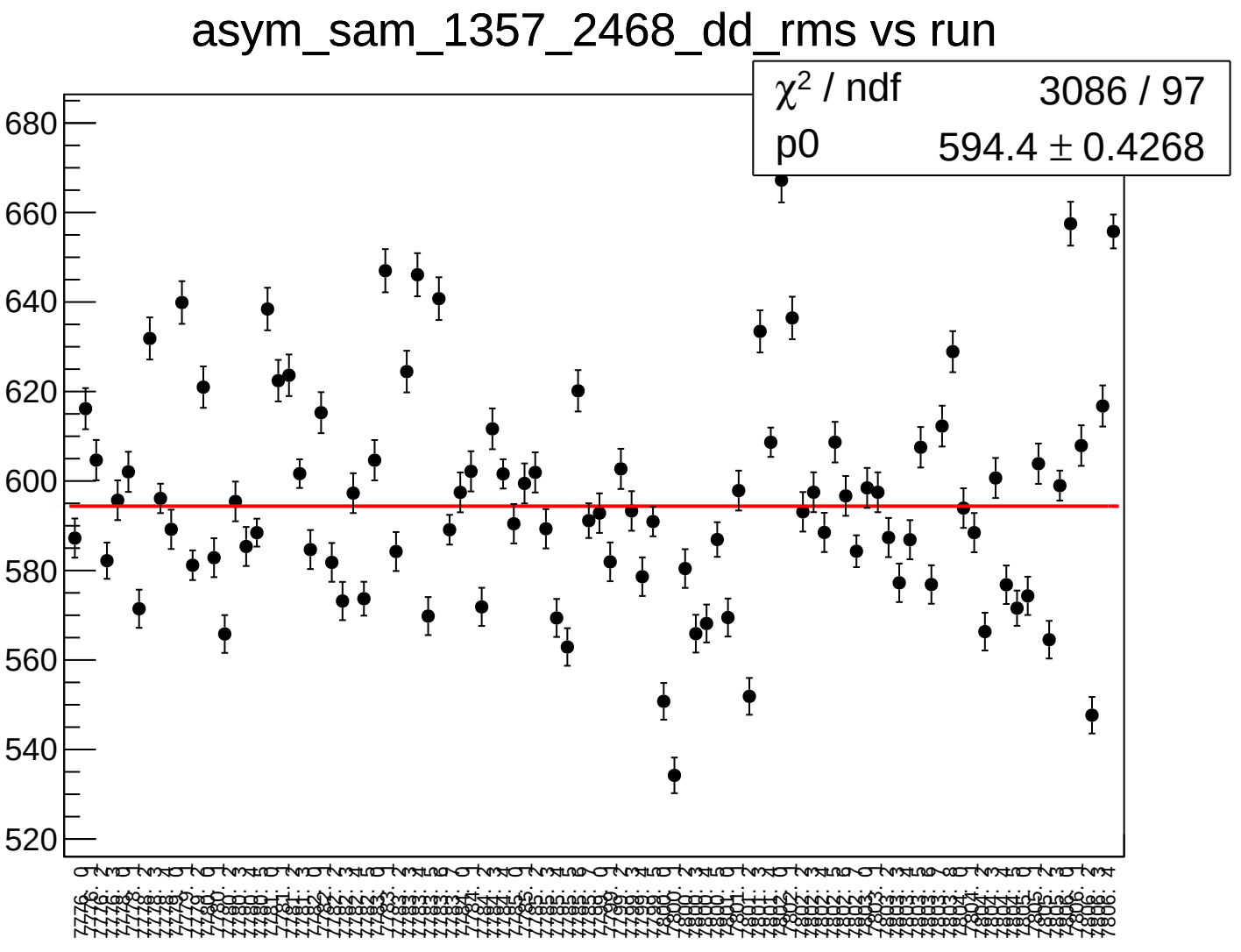

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.66 / 97
p0 277.6 ± 625.6
pull
Entries 98
Mean −909.9
Std Dev 0

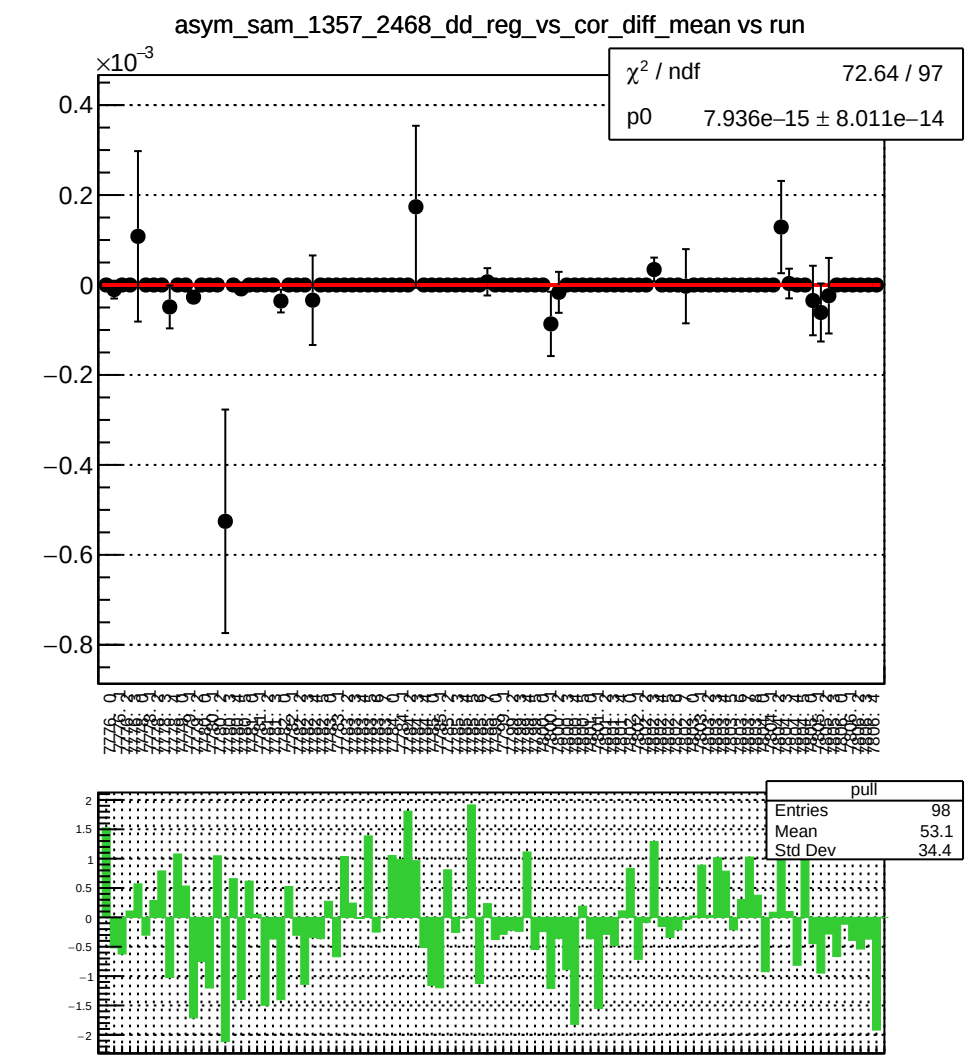

pull1D
Entries 98
Mean −0.00377
Std Dev 0.8491

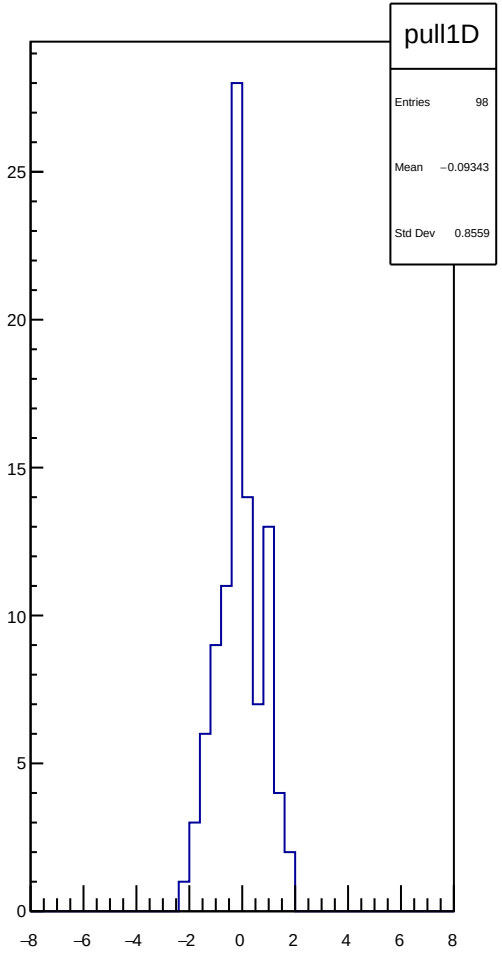

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 3435 / 97
p0 616 ± 0.4424
740
720
700
680
660
640
620
600
580
560
540

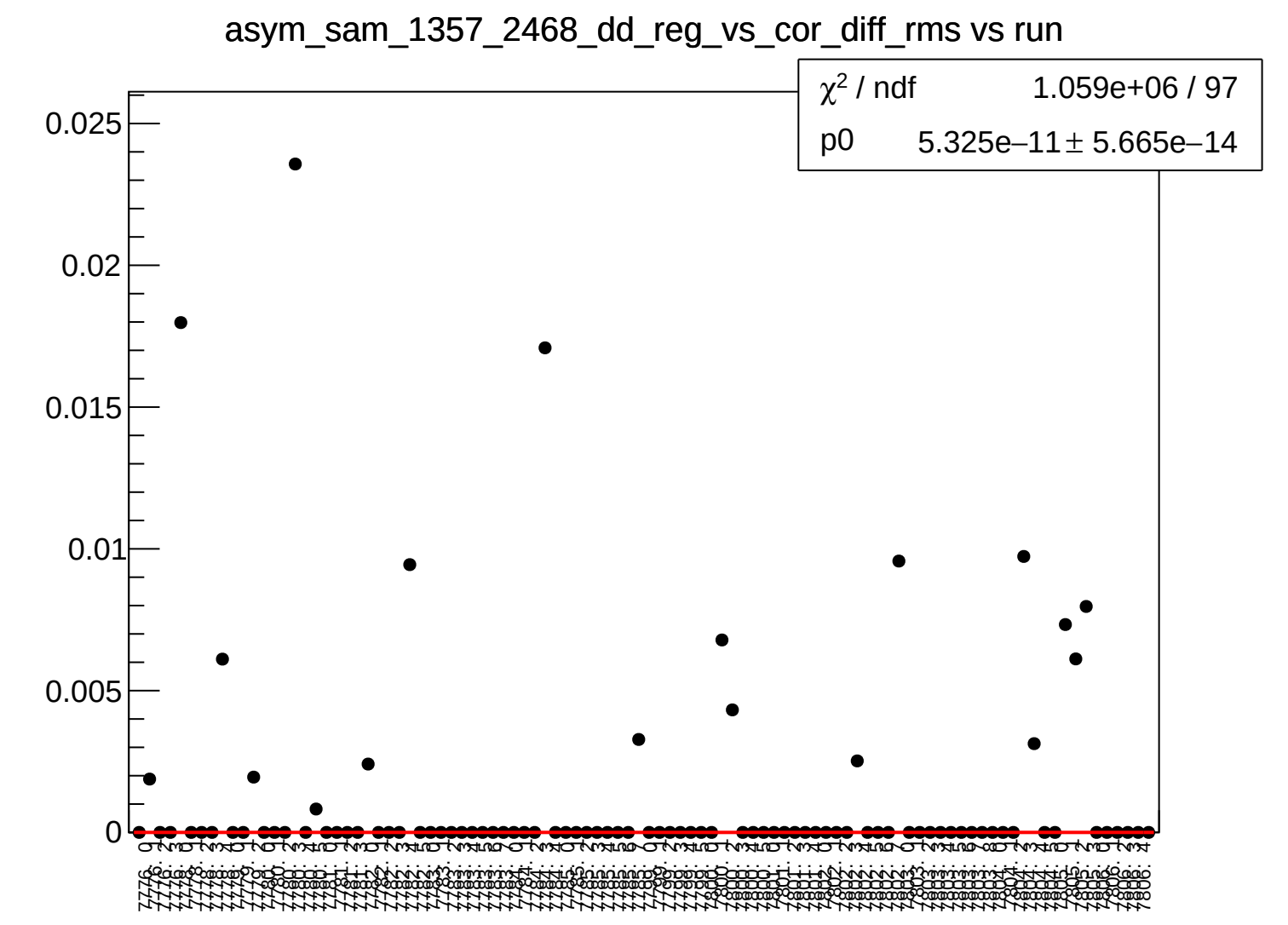

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 69.89 / 97
p0 −328.8 ± 603.5
pull
Entries 98
Mean −1479
Std Dev 0

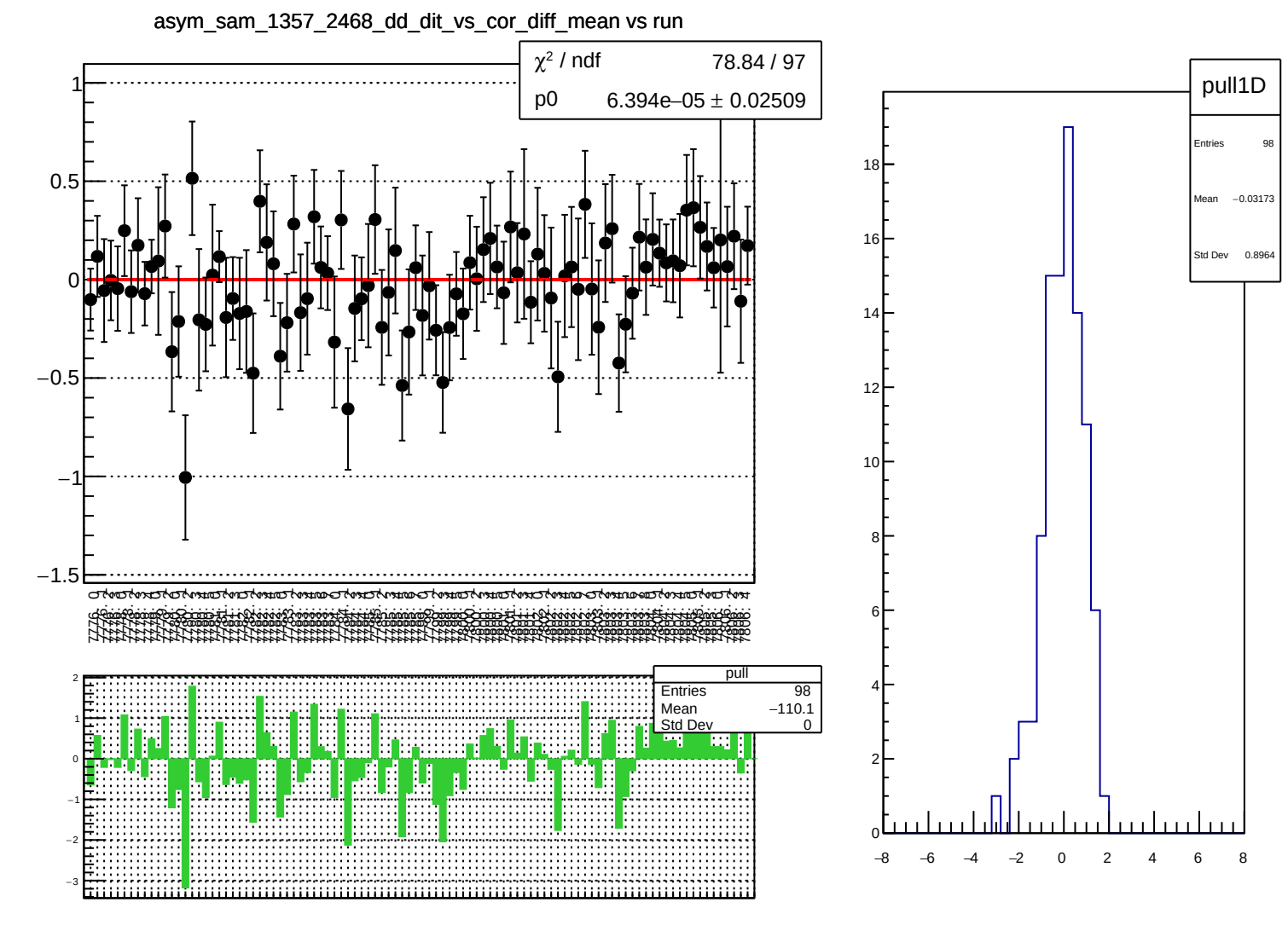

pull1D
Entries 98
Mean 0.002337
Std Dev 0.8445

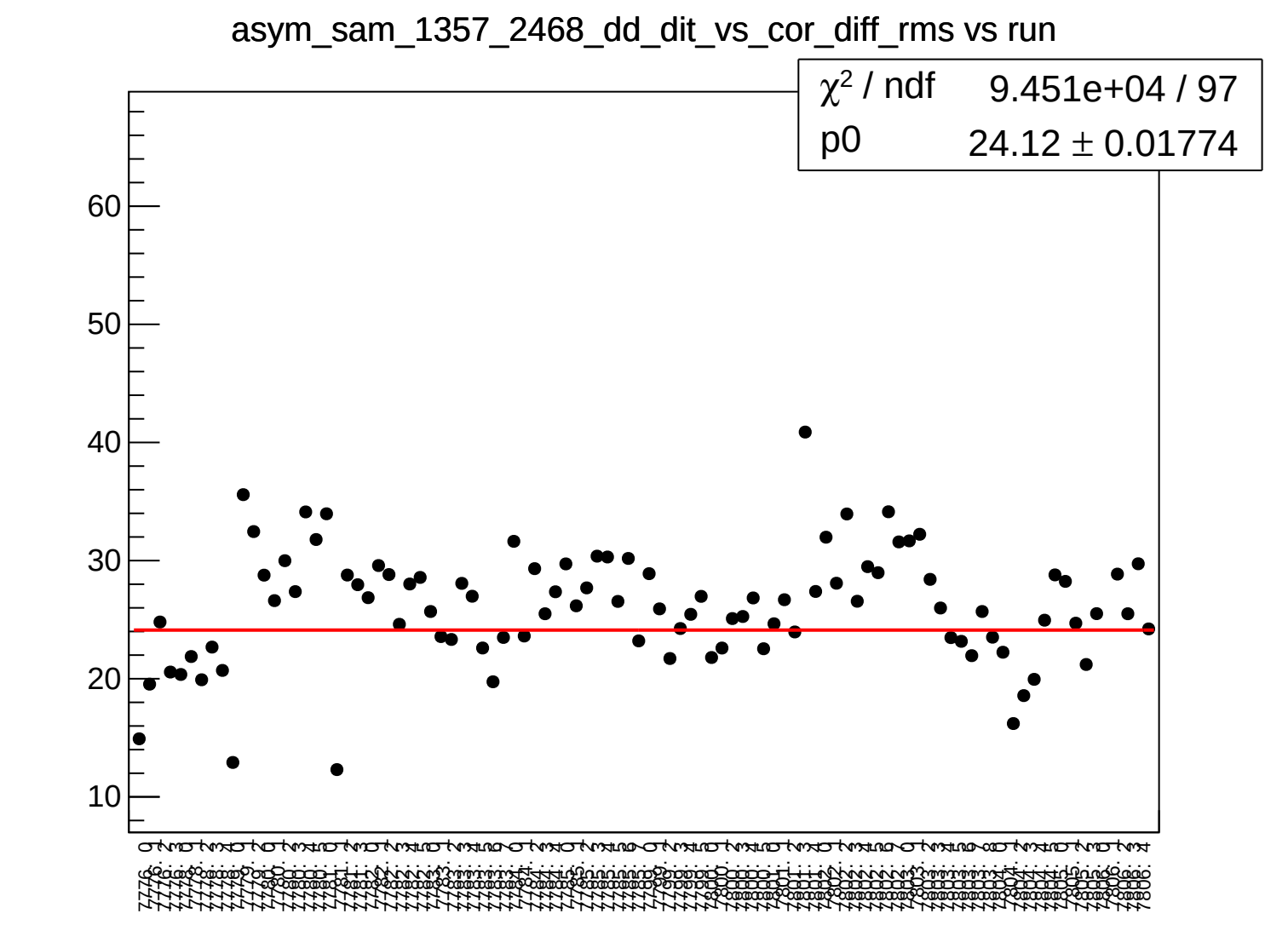

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3086 / 97
p0 594.4 ± 0.4268
680
660
640
620
600
580
560
540
520

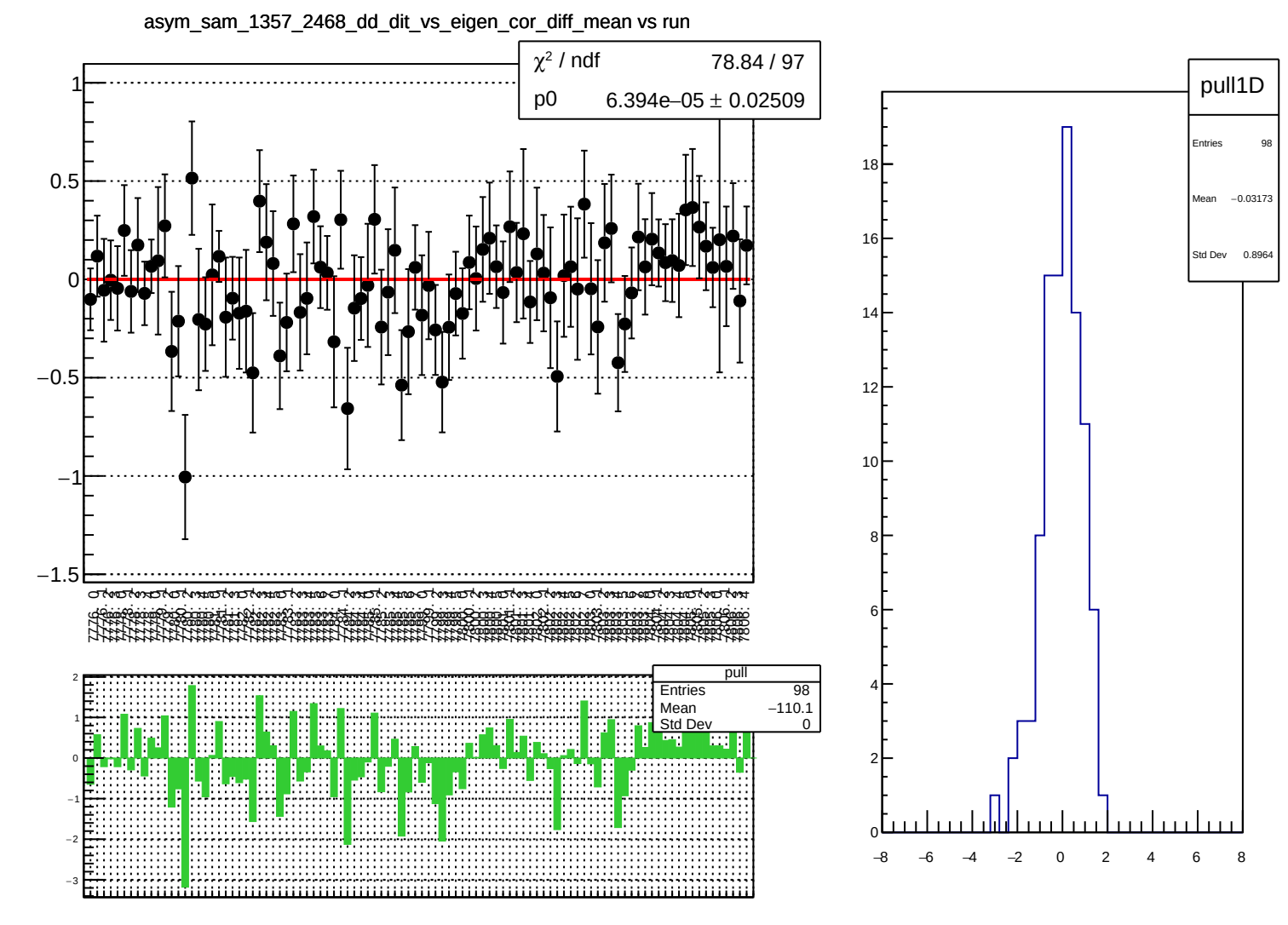

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 72.64 / 97
p0 7.936e−15 ± 8.011e−14
pull
Entries 98
Mean 53.1
Std Dev 34.4

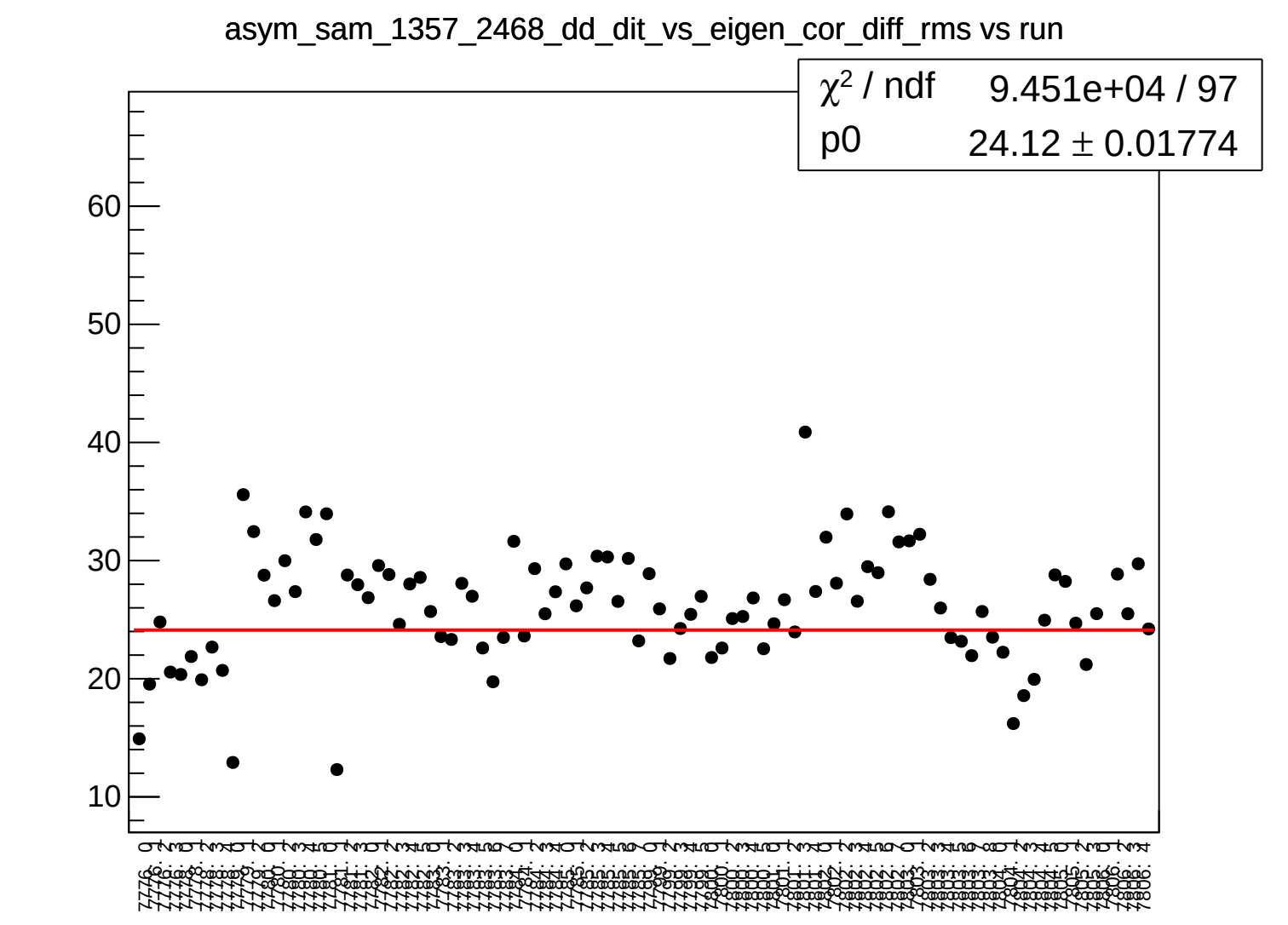

pull1D
Entries 98
Mean −0.09343
Std Dev 0.8559

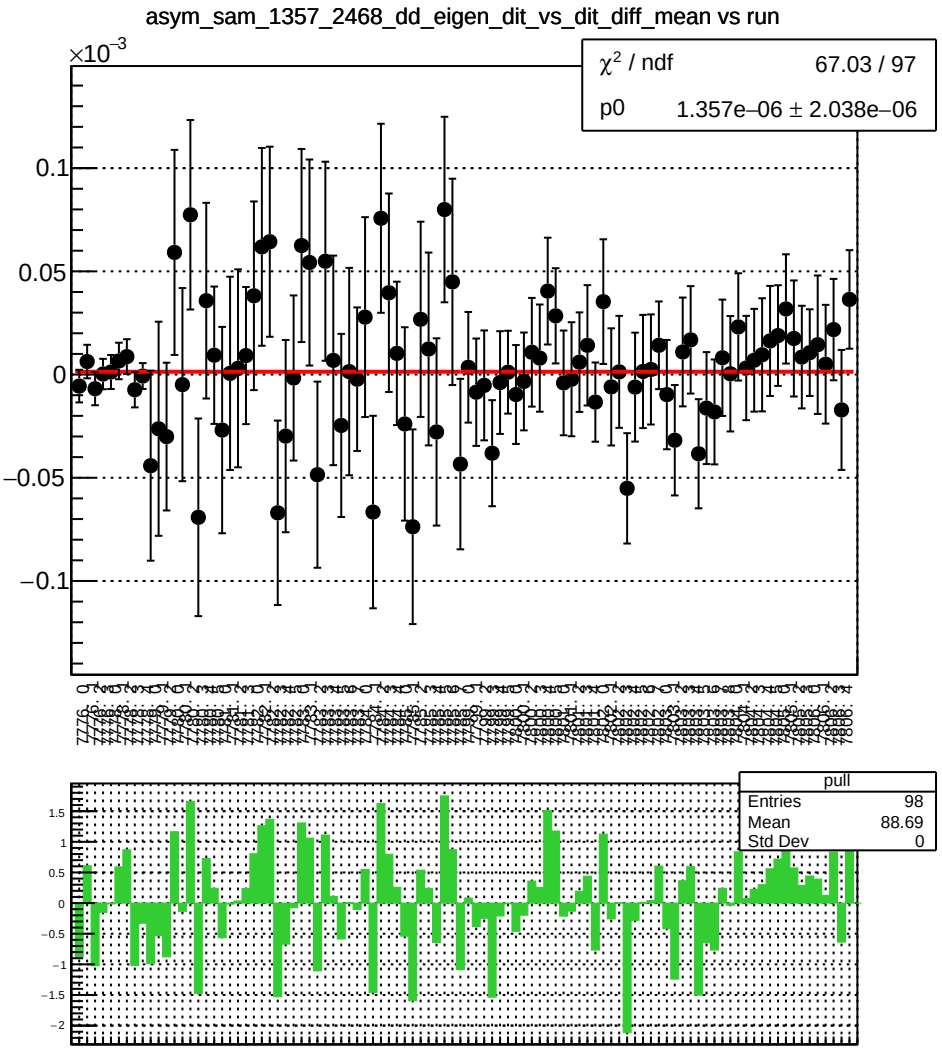

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.059e+06 / 97
p0 5.325e−11 ± 5.665e−14
0.025
0.02
0.015
0.01
0.005
0

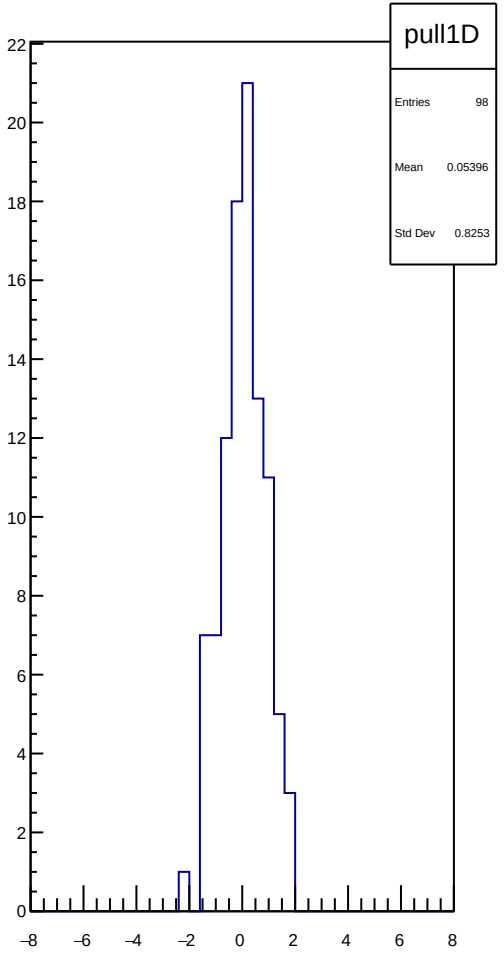

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.84 / 97
p0 6.394e−05 ± 0.02509
pull
Entries 98
Mean −110.1
Std Dev 0
pull1D
Entries 98
Mean −0.03173
Std Dev 0.8964

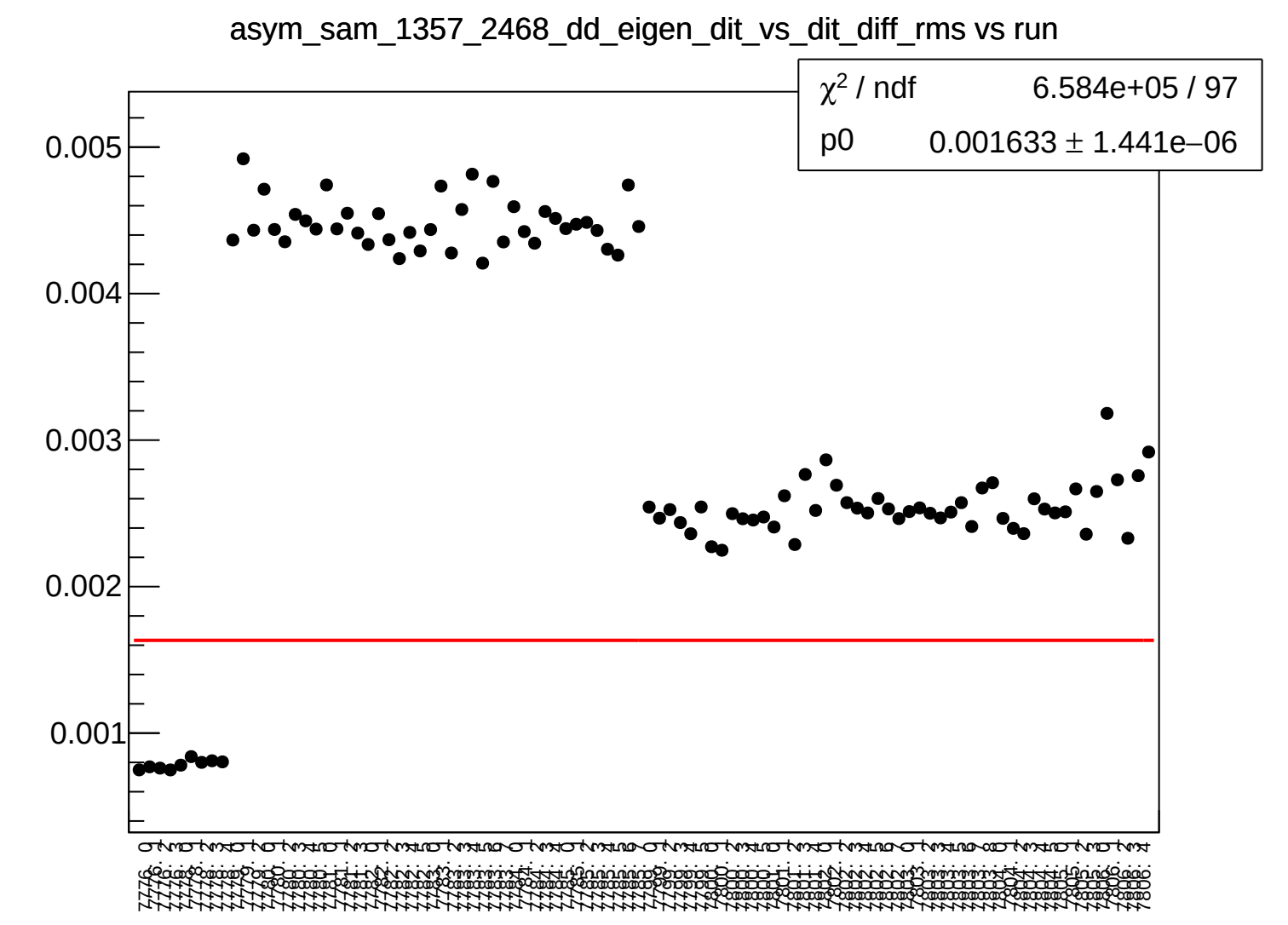

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.451e+04 / 97
p0 24.12 ± 0.01774
60
50
40
30
20
10

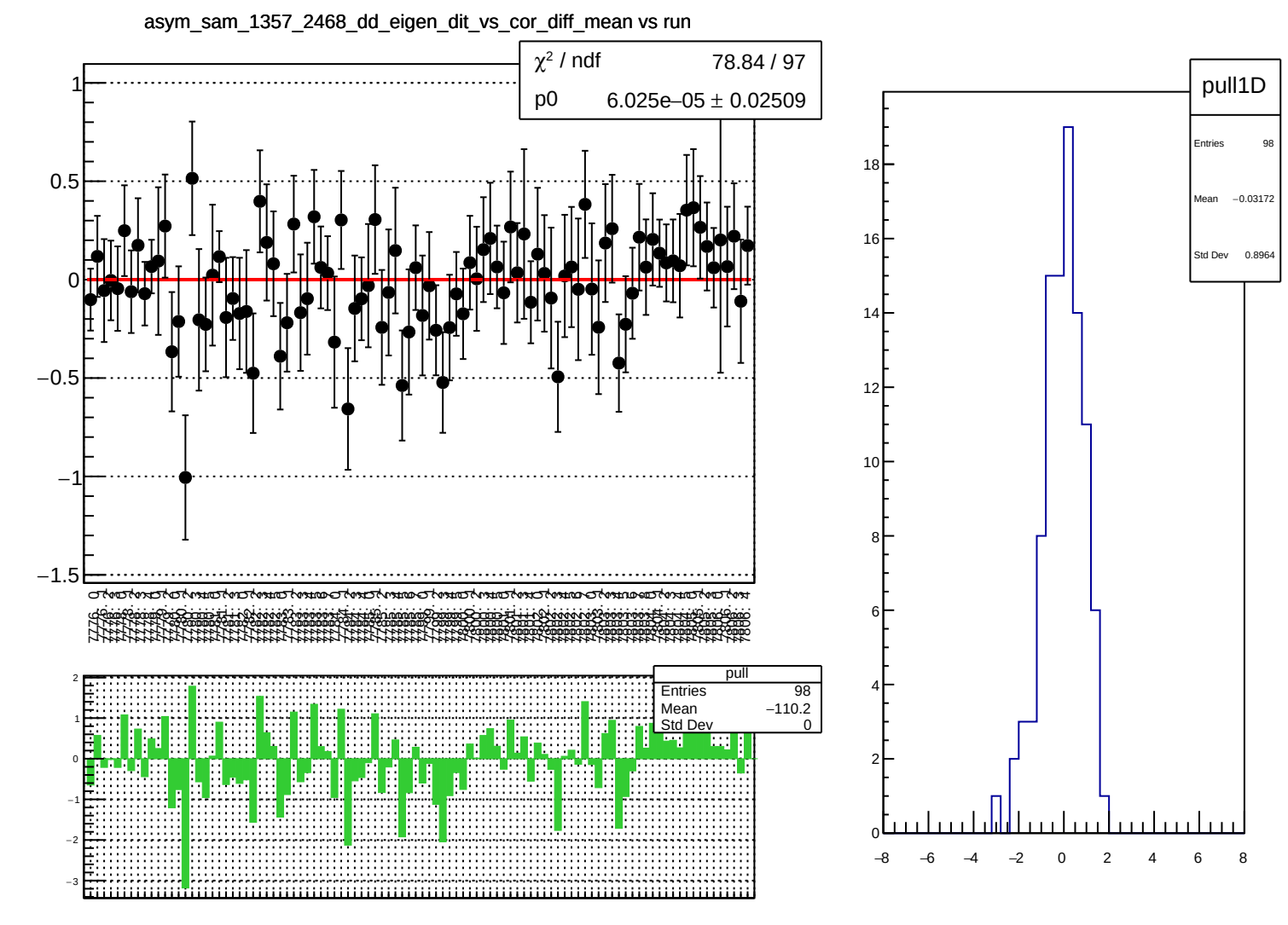

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.84 / 97
p0 6.394e−05 ± 0.02509
pull
Entries 98
Mean −110.1
Std Dev 0
pull1D
Entries 98
Mean −0.03173
Std Dev 0.8964

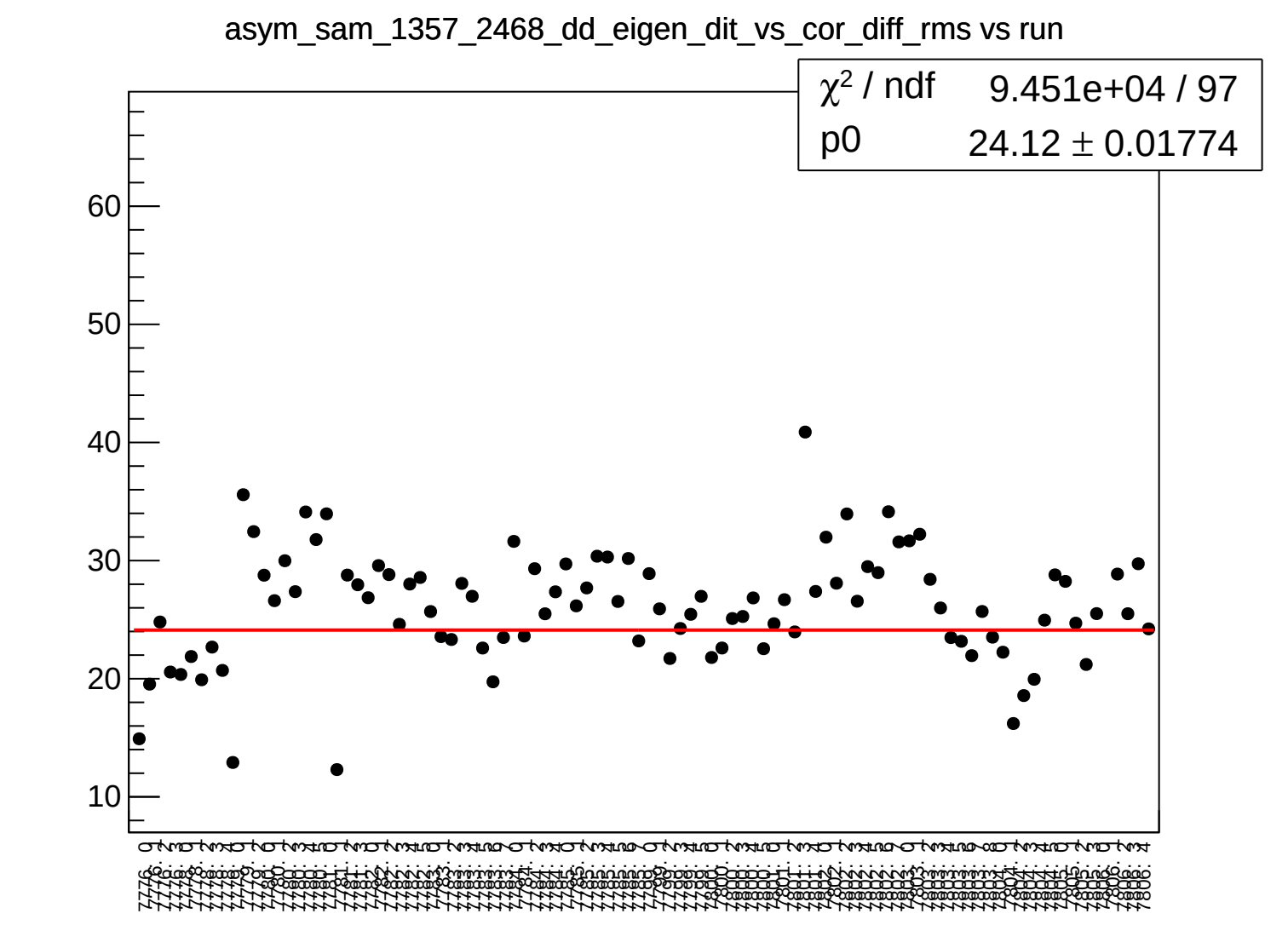

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.451e+04 / 97
p0 24.12 ± 0.01774
60
50
40
30
20
10

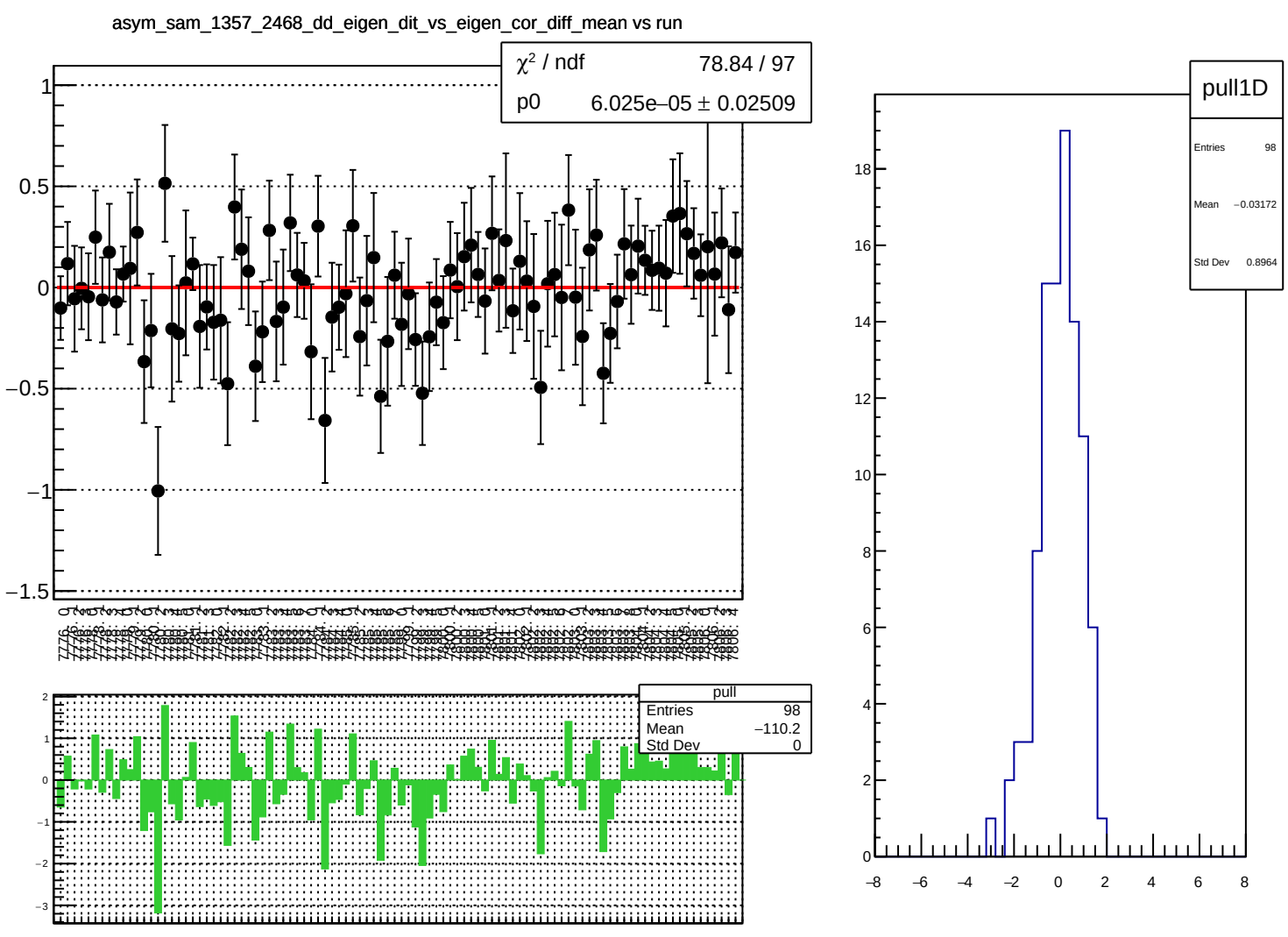

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.03 / 97
p0 1.357e−06 ± 2.038e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 98
Mean 88.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

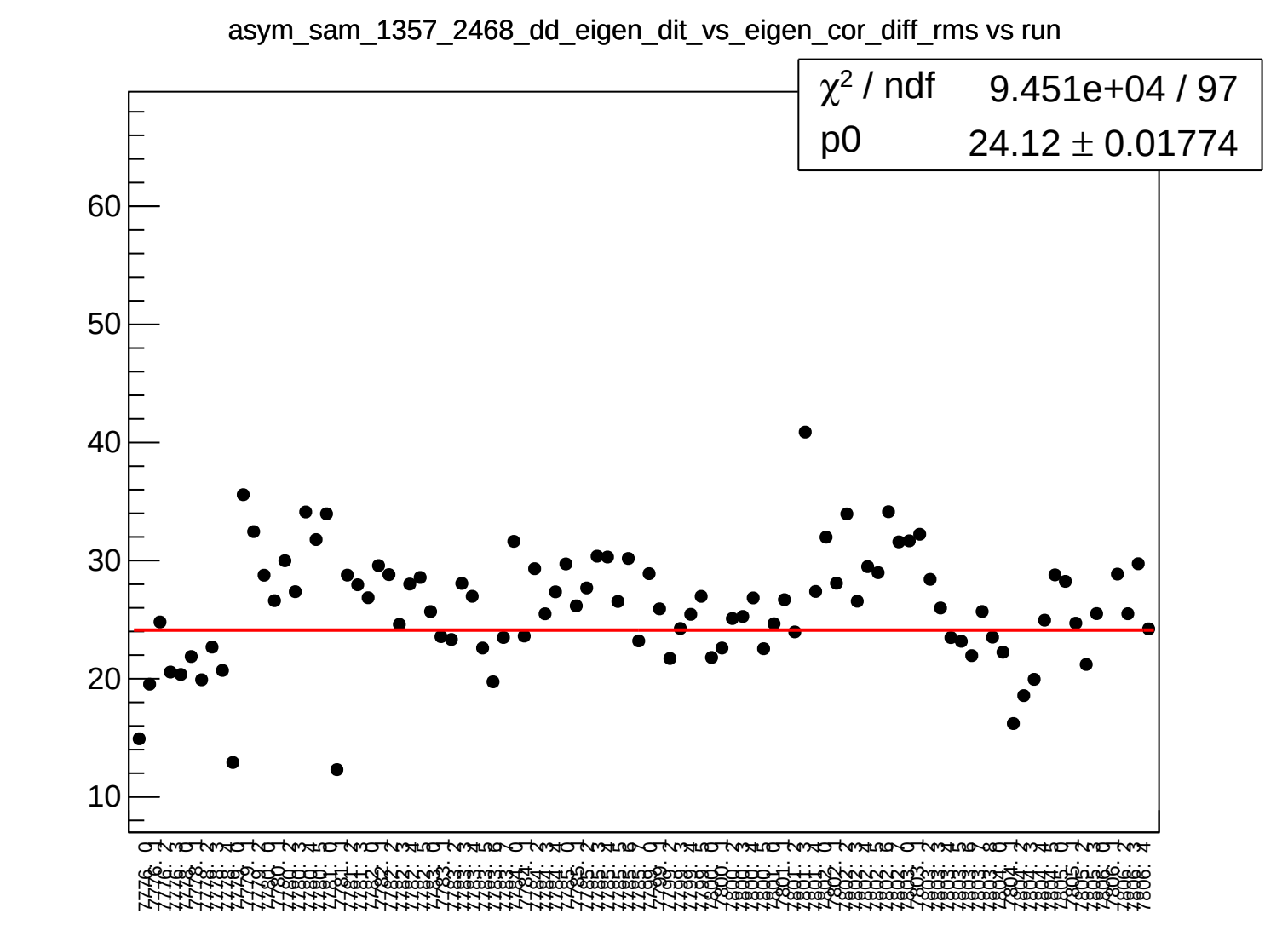

pull1D
Entries 98
Mean 0.05396
Std Dev 0.8253
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

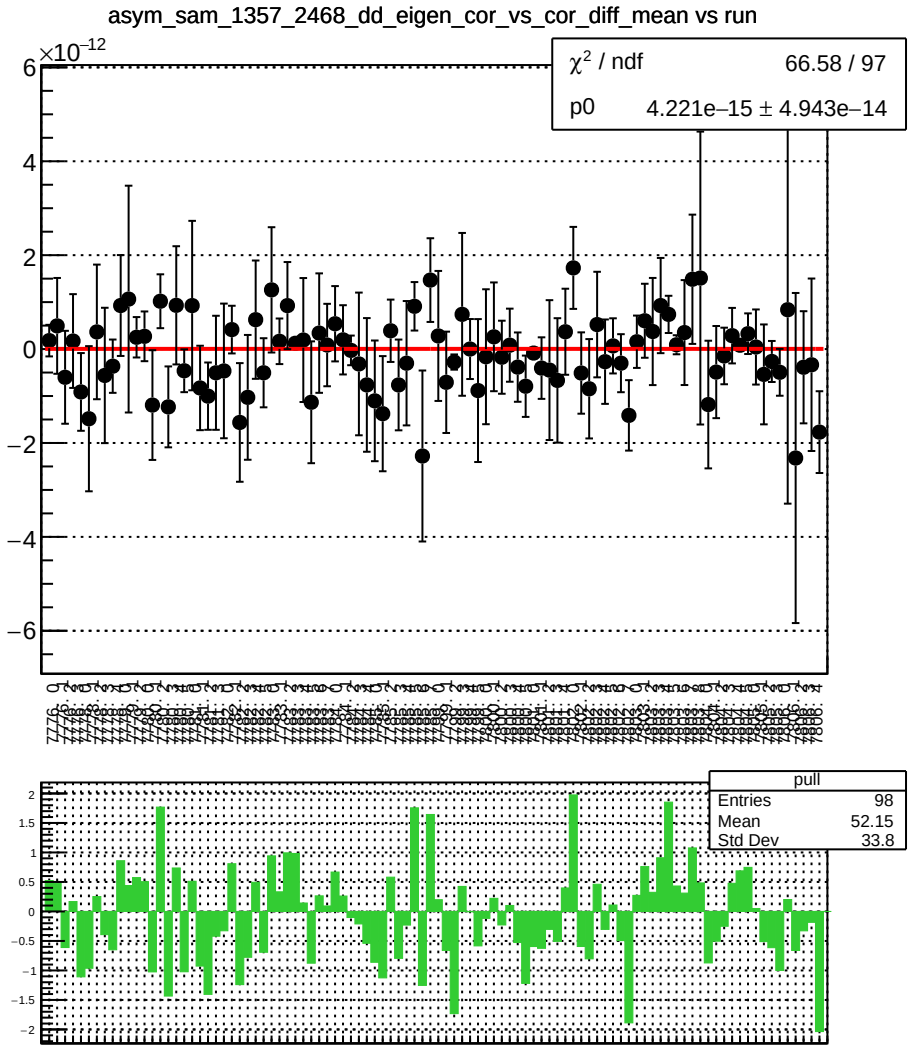

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.584e+05 / 97
p0 0.001633 ± 1.441e−06
0.005
0.004
0.003
0.002
0.001

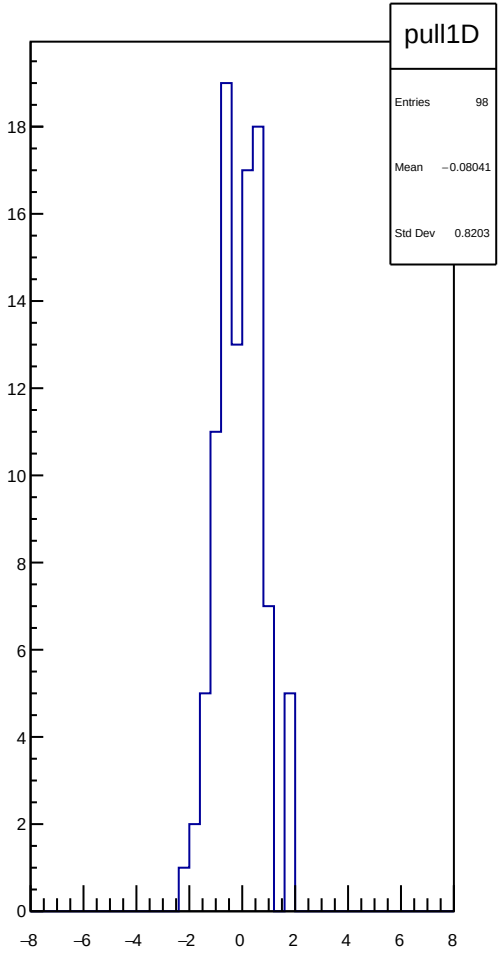

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.84 / 97
p0 6.025e−05 ± 0.02509
pull
Entries 98
Mean −110.2
Std Dev 0
pull1D
Entries 98
Mean −0.03172
Std Dev 0.8964

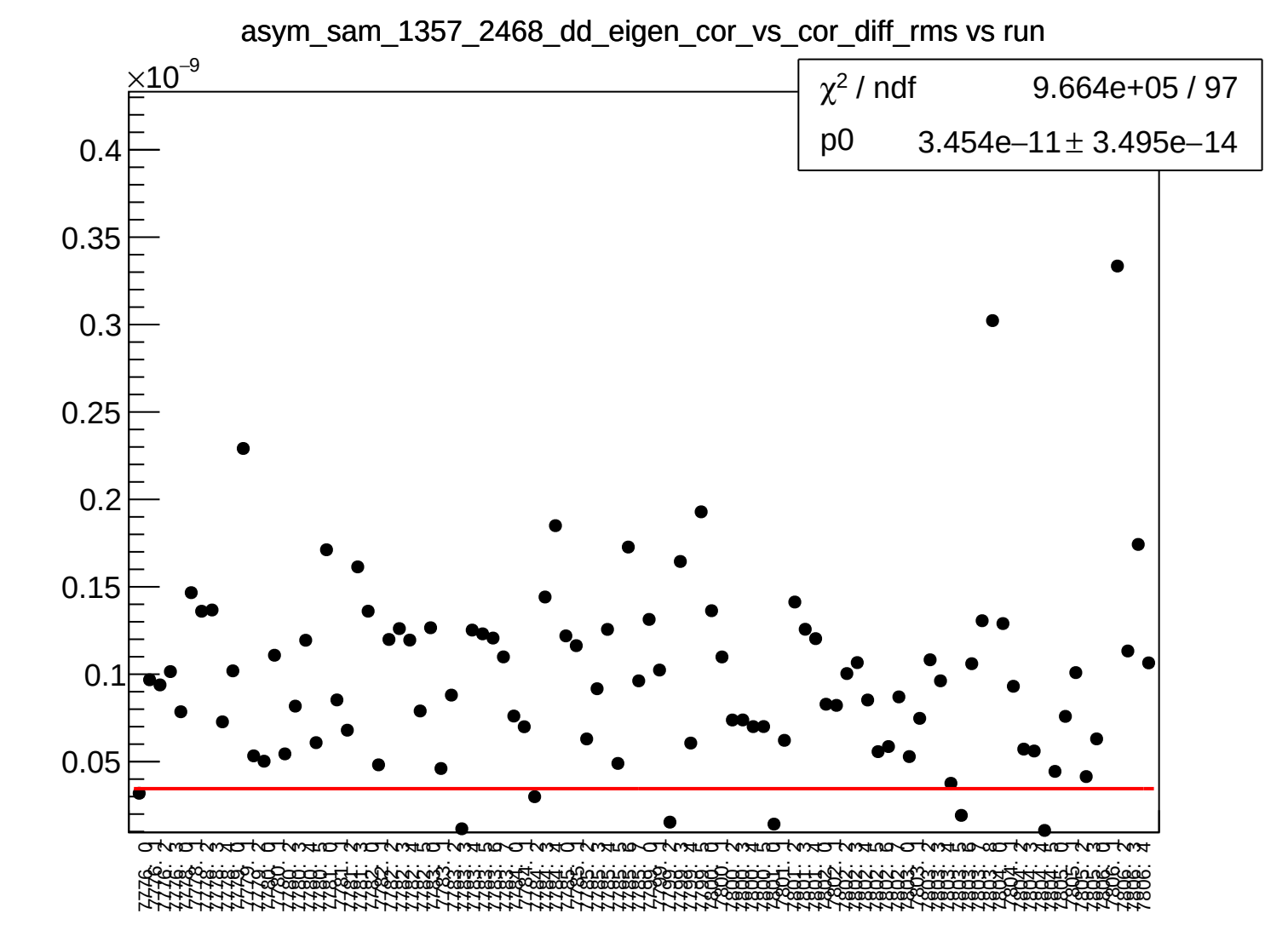

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.451e+04 / 97
p0 24.12 ± 0.01774
60
50
40
30
20
10

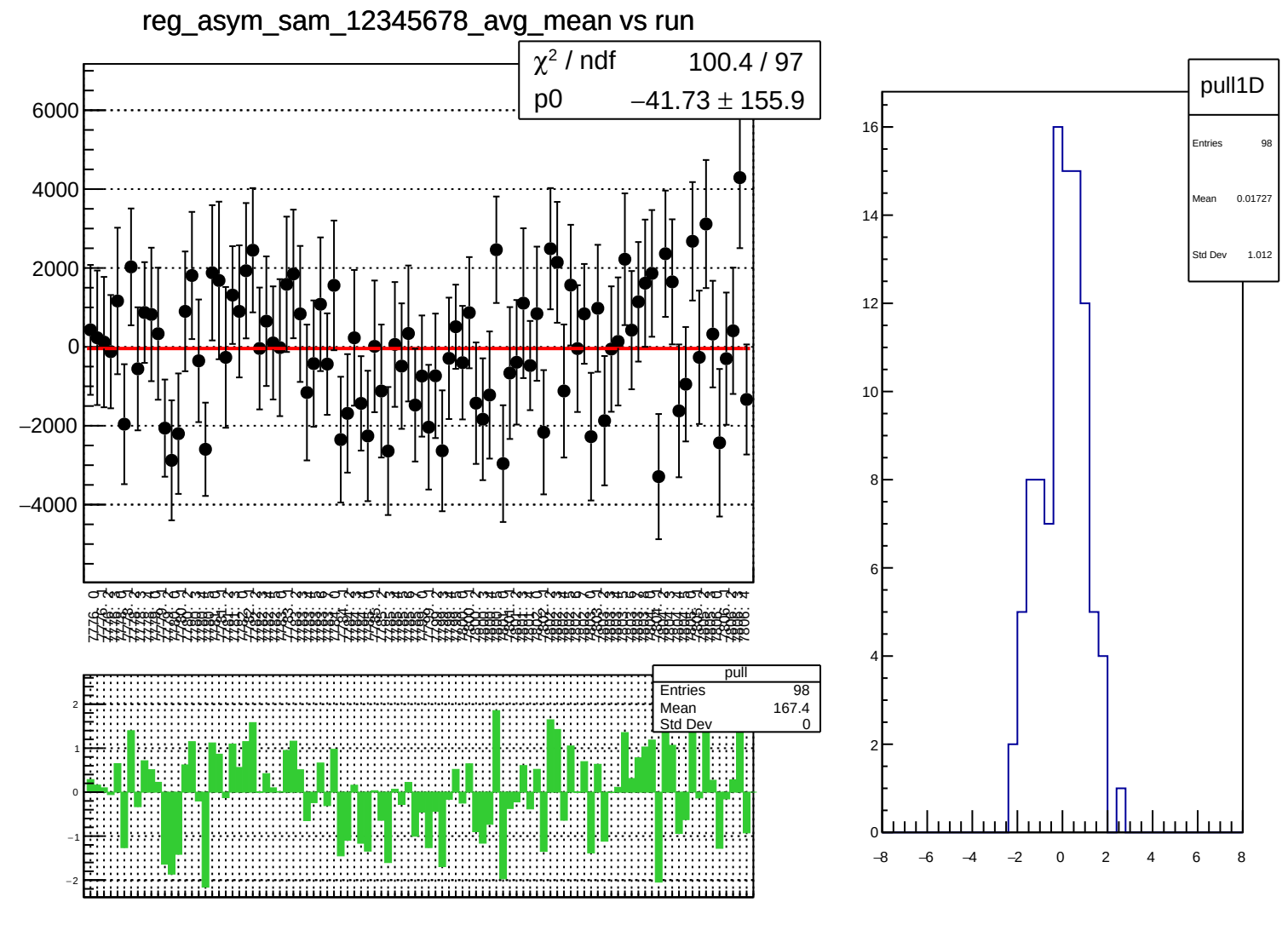

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.84 / 97
p0 6.025e−05 ± 0.02509
pull
Entries 98
Mean −110.2
Std Dev 0
pull1D
Entries 98
Mean −0.03172
Std Dev 0.8964

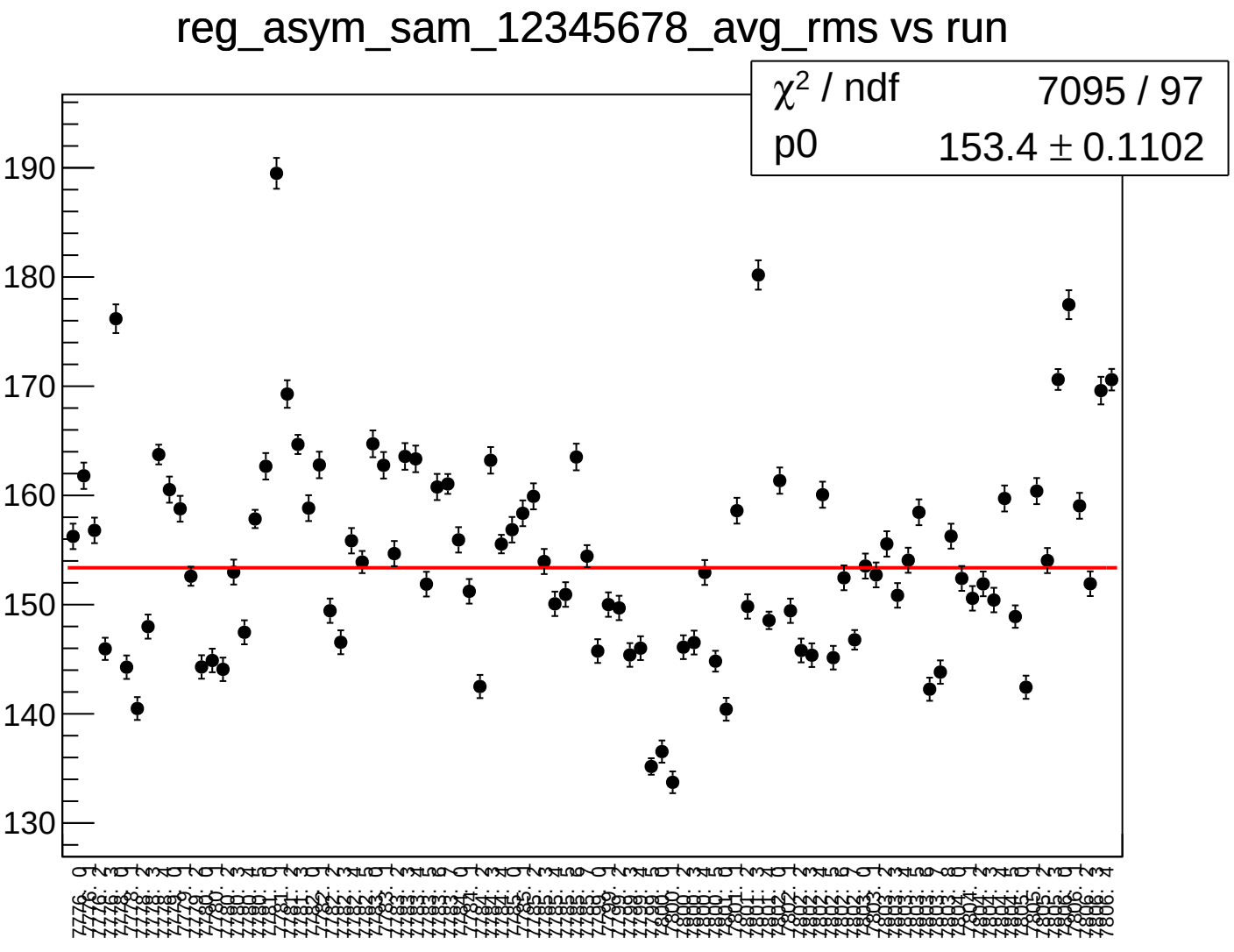

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.451e+04 / 97
p0 24.12 ± 0.01774
60
50
40
30
20
10

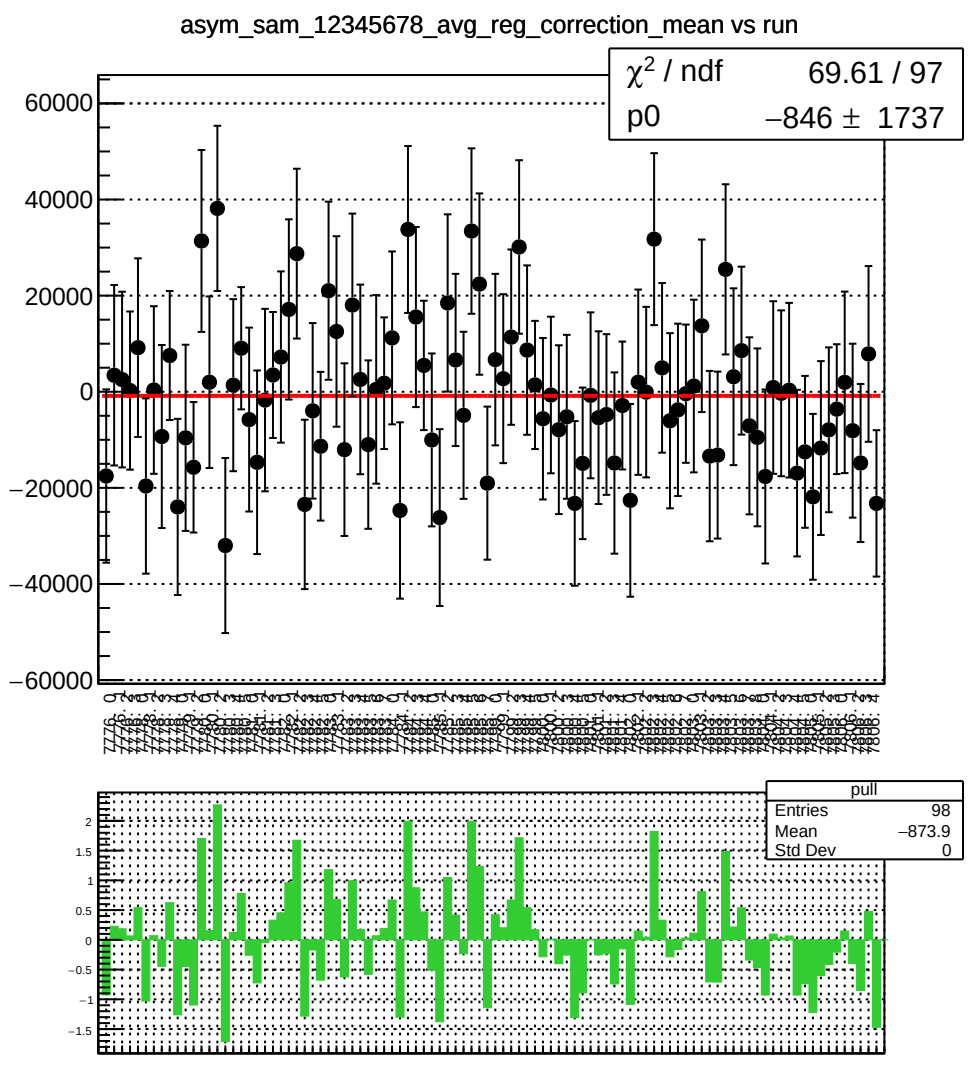

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.58 / 97
p0 4.221e−15 ± 4.943e−14
pull
Entries 98
Mean 52.15
Std Dev 33.8

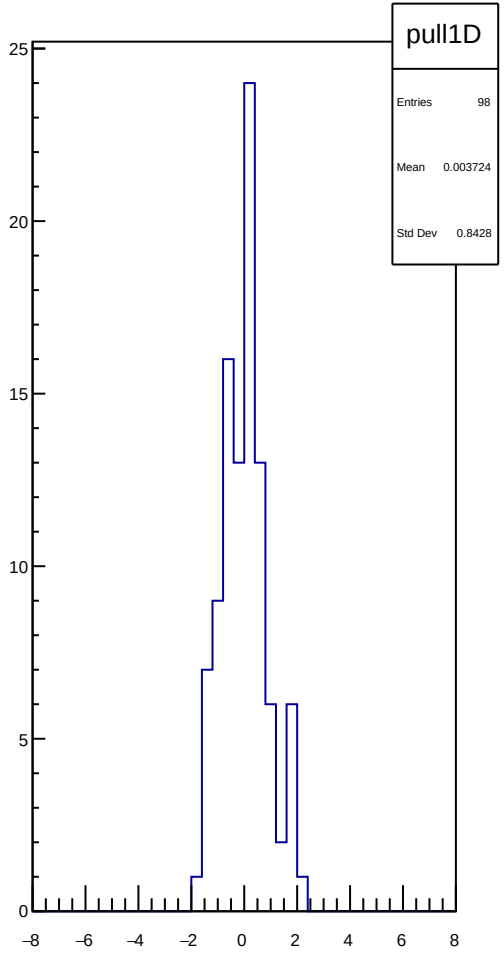

pull1D
Entries 98
Mean −0.08041
Std Dev 0.8203

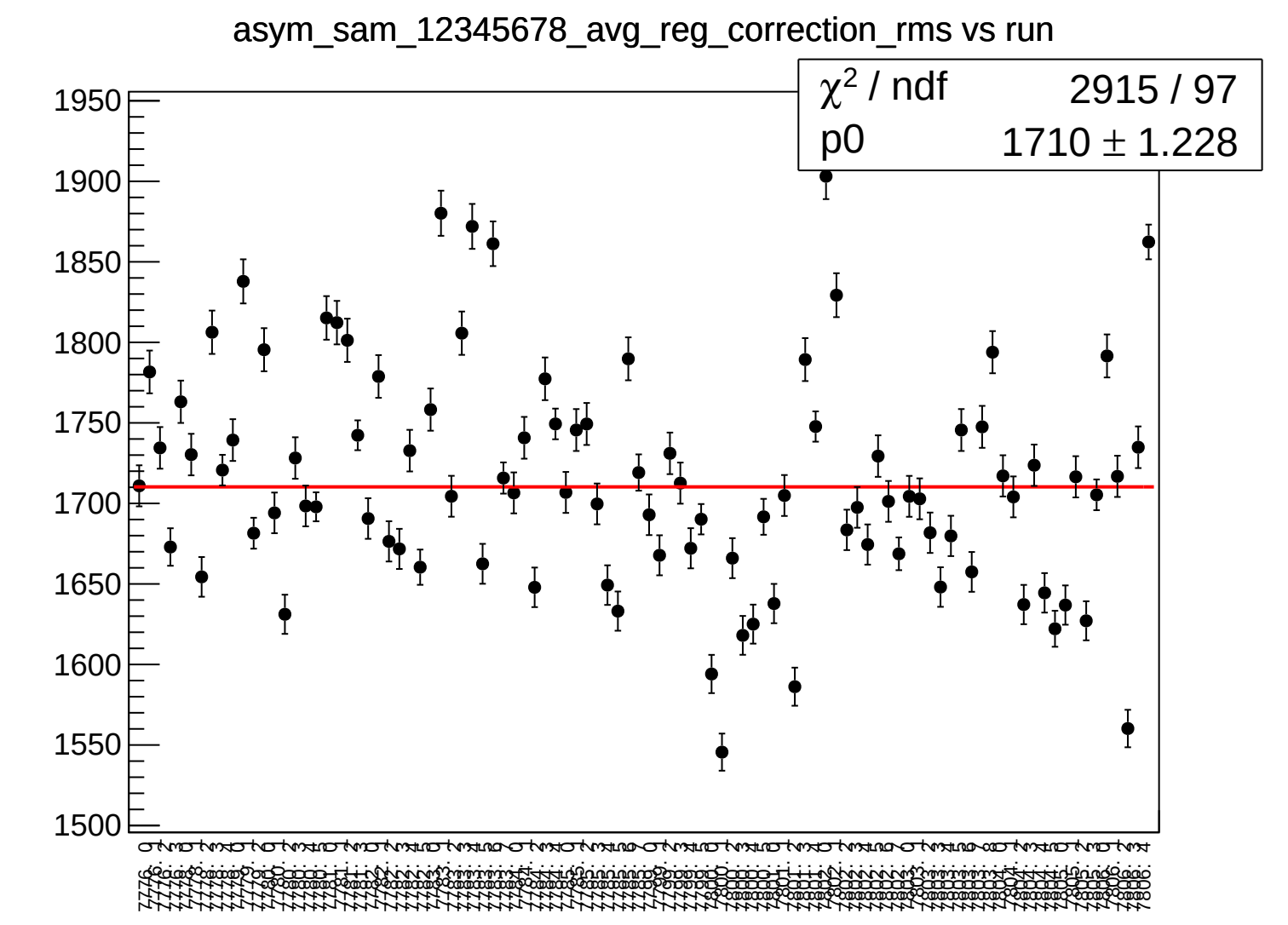

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.664e+05 / 97
p0 3.454e−11 ± 3.495e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

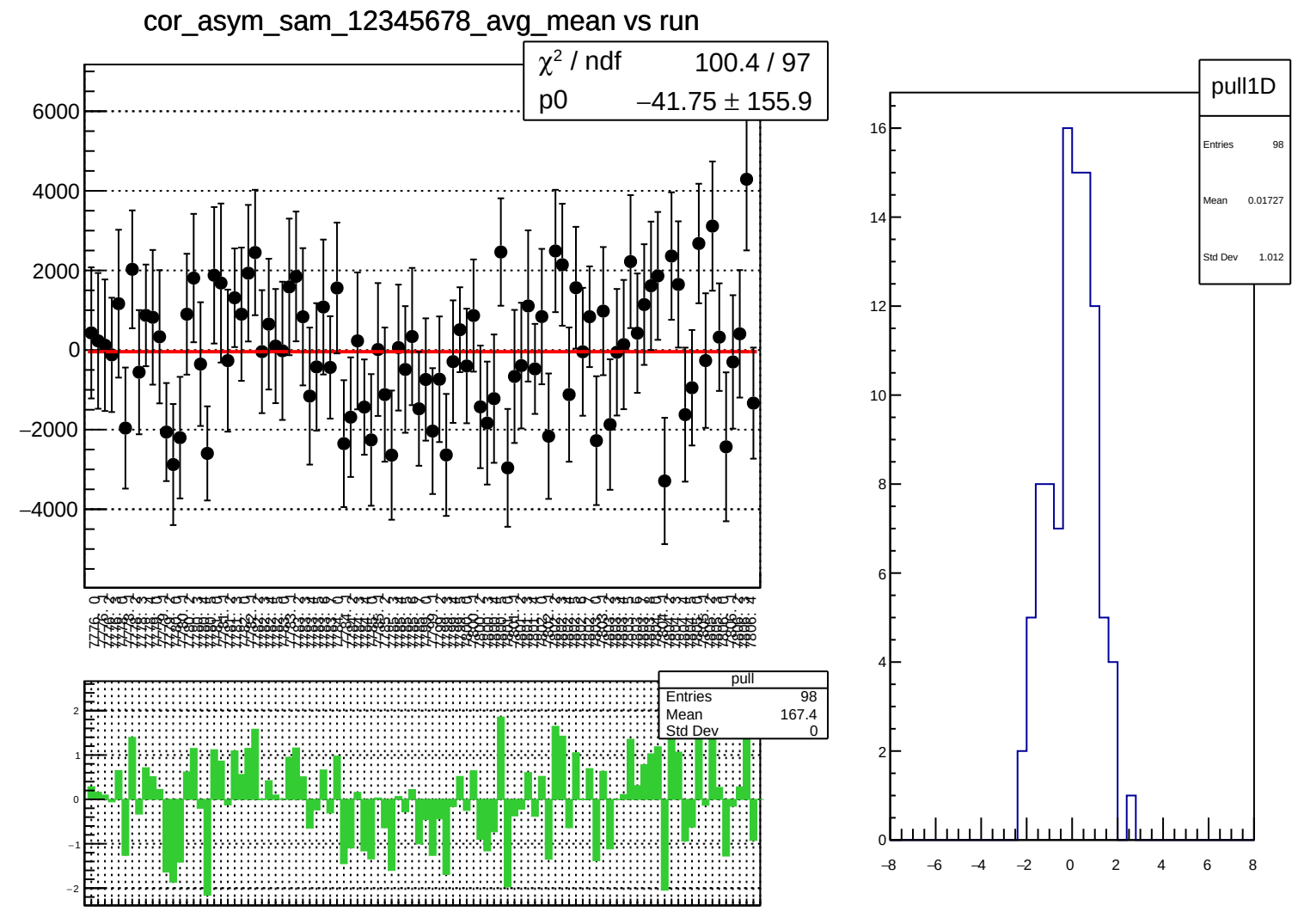

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 100.4 / 97
p0 −41.73 ± 155.9
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 167.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01727
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

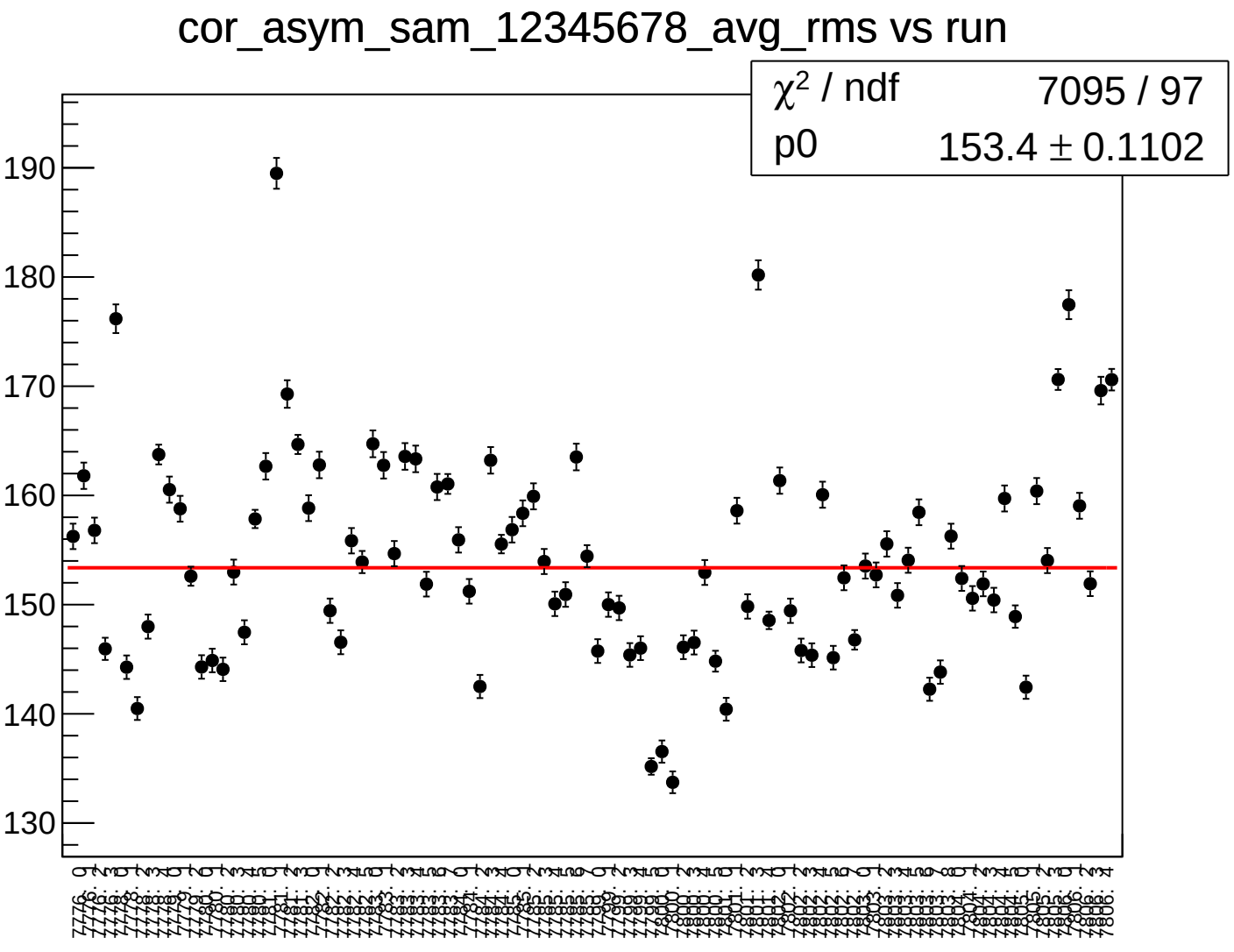

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 7095 / 97
p0 153.4 ± 0.1102
190
180
170
160
150
140
130

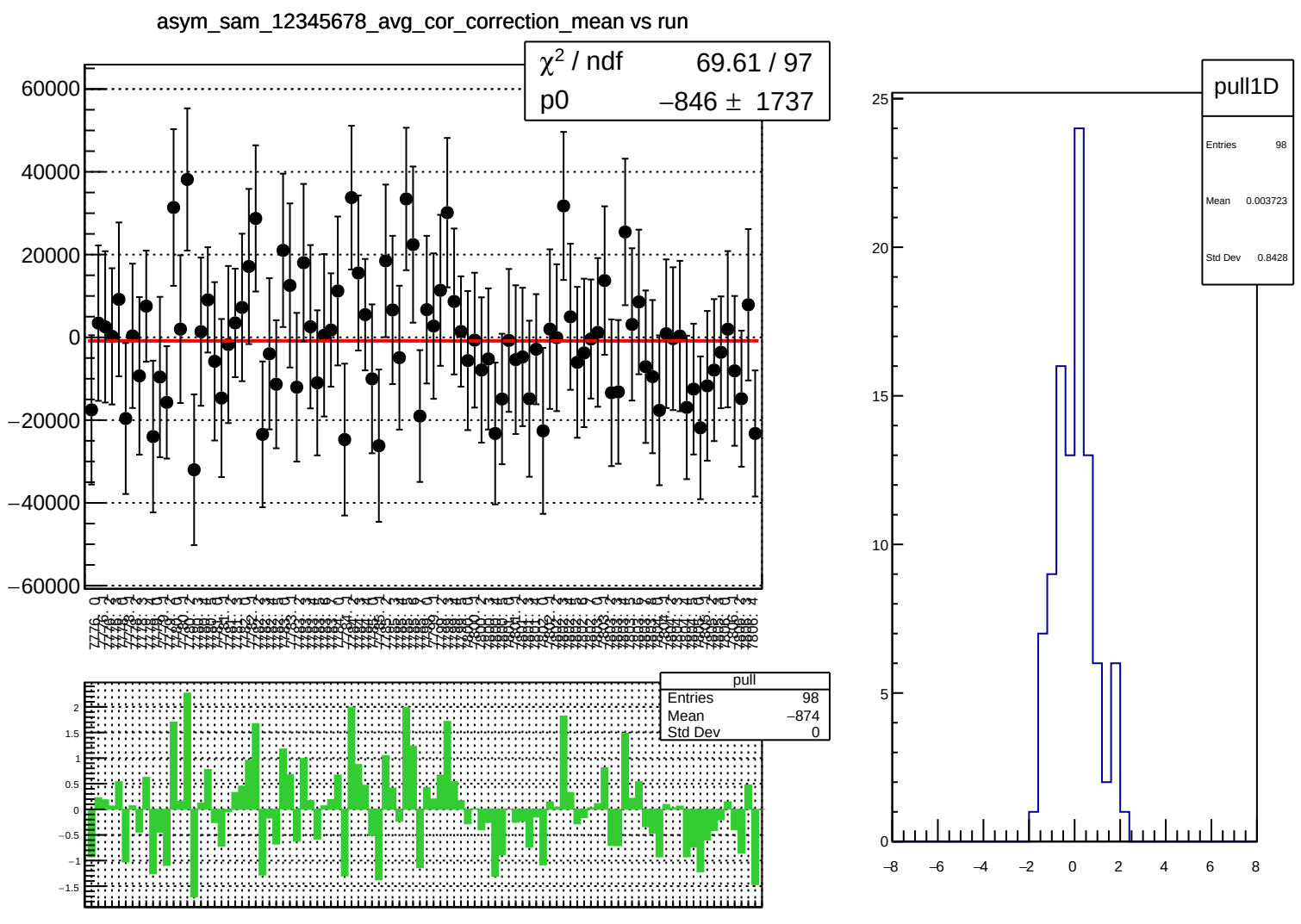

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 69.61 / 97
p0 −846 ± 1737
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −873.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

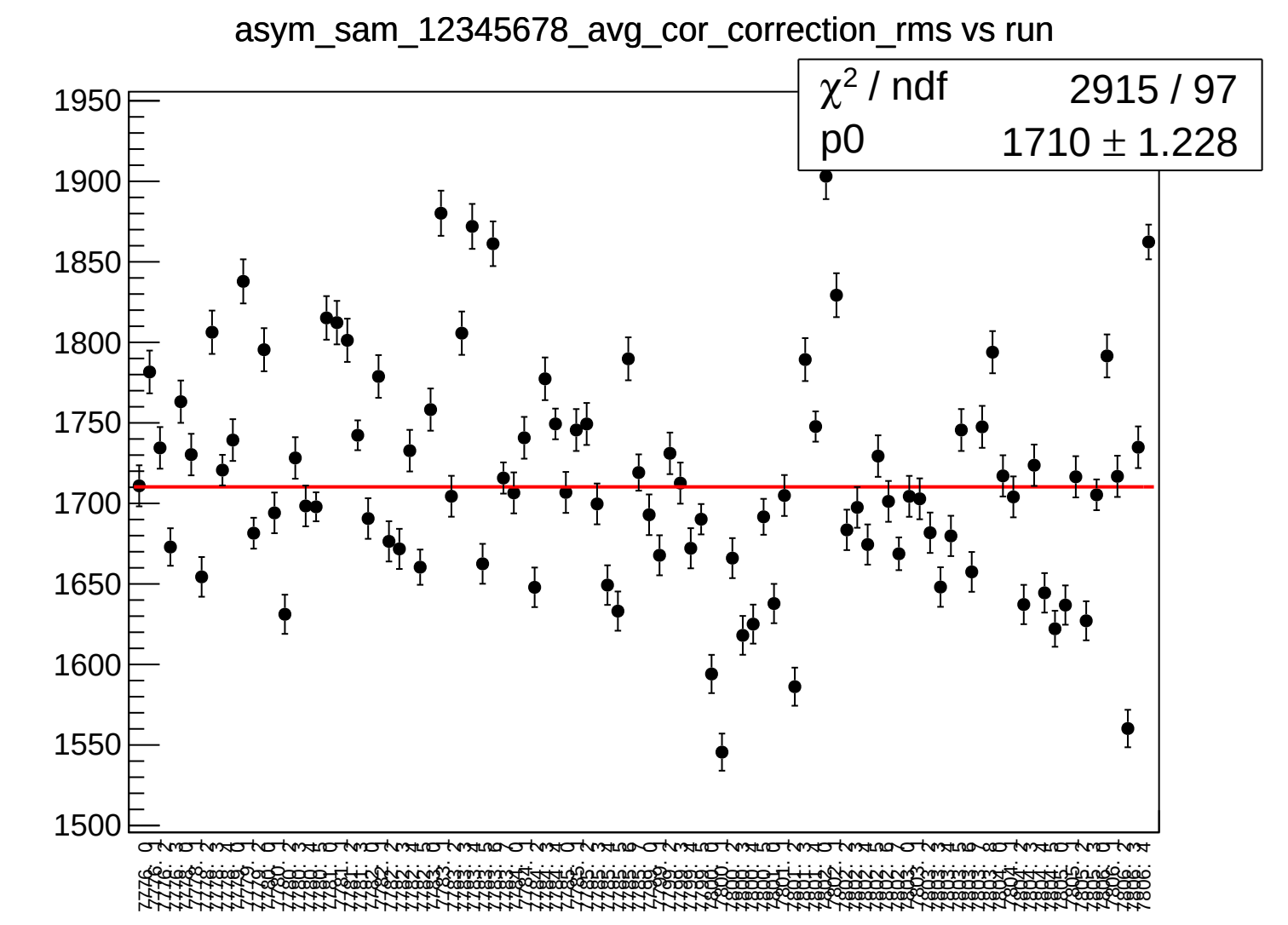

pull1D
Entries 98
Mean 0.003724
Std Dev 0.8428
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

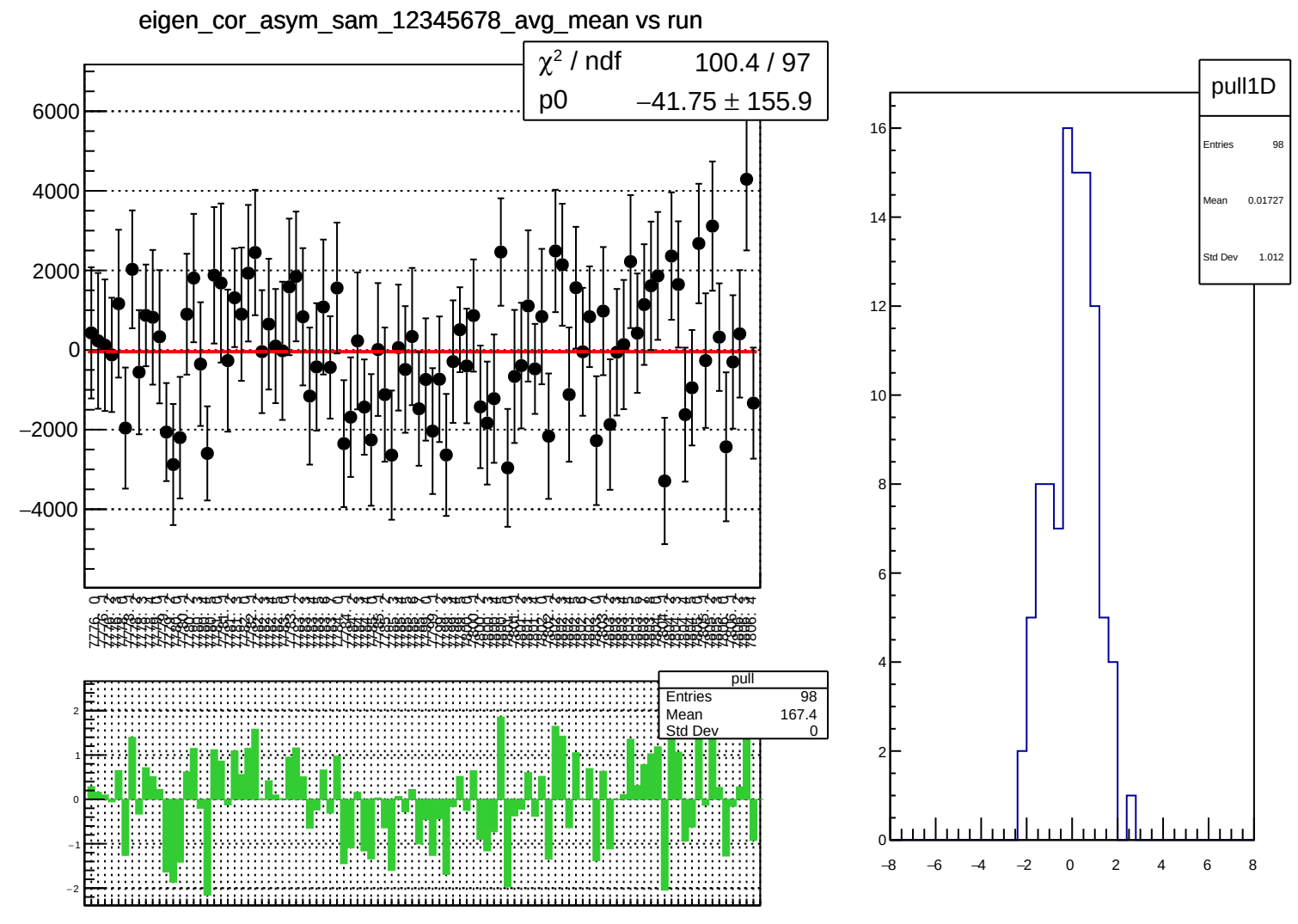

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 2915 / 97
p0 1710 ± 1.228
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

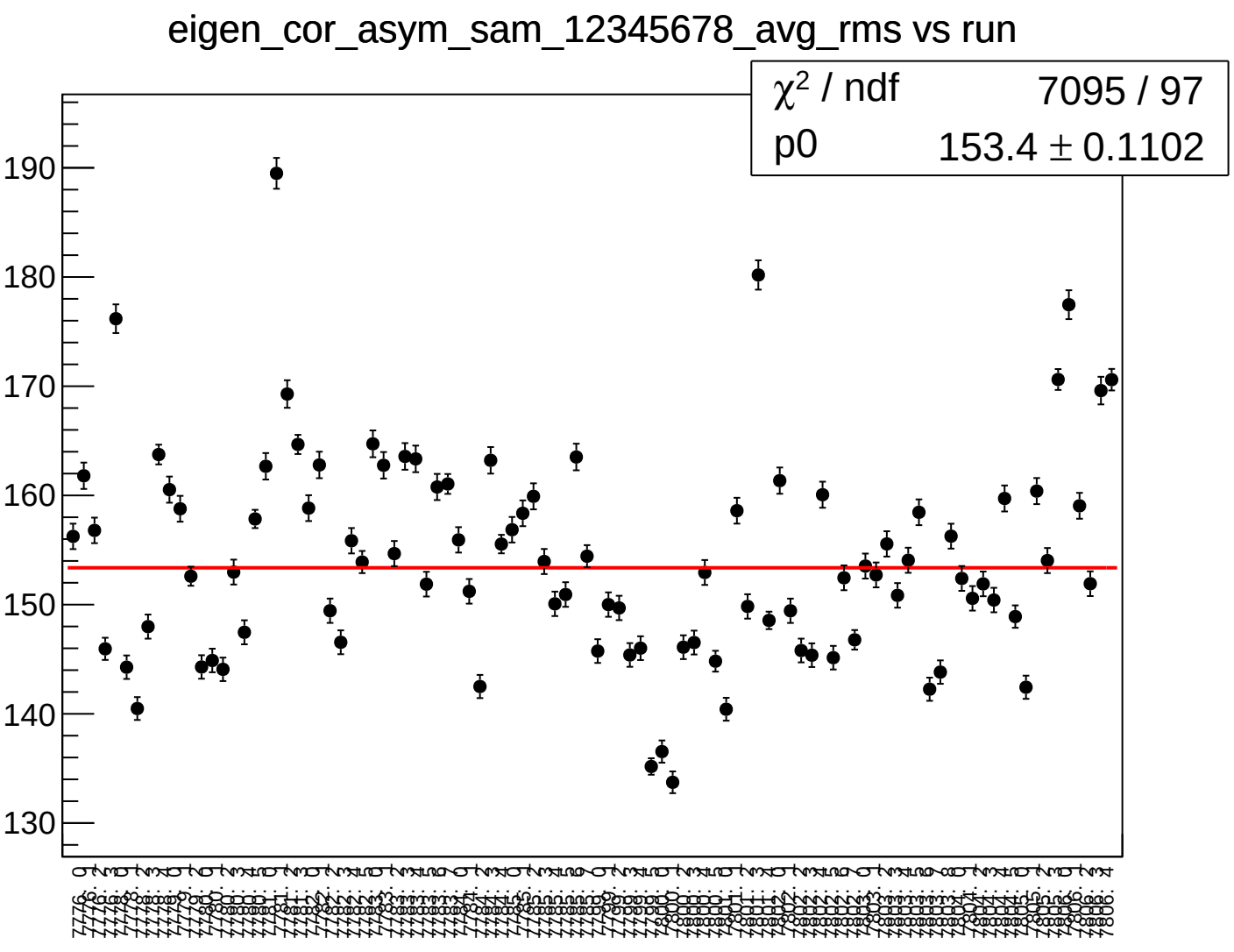

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 100.4 / 97
p0 −41.75 ± 155.9
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 167.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01727
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

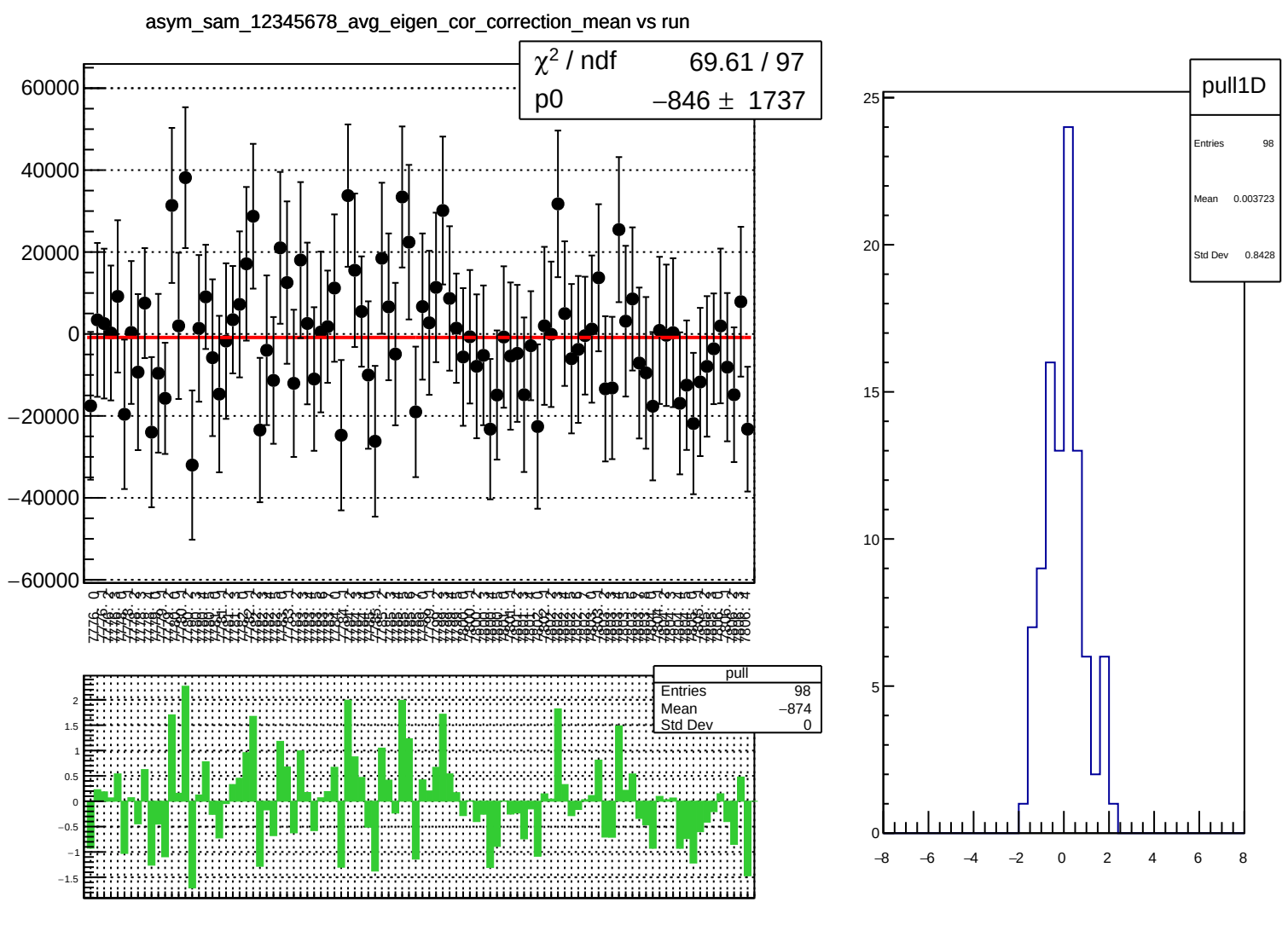

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 7095 / 97
p0 153.4 ± 0.1102
190
180
170
160
150
140
130

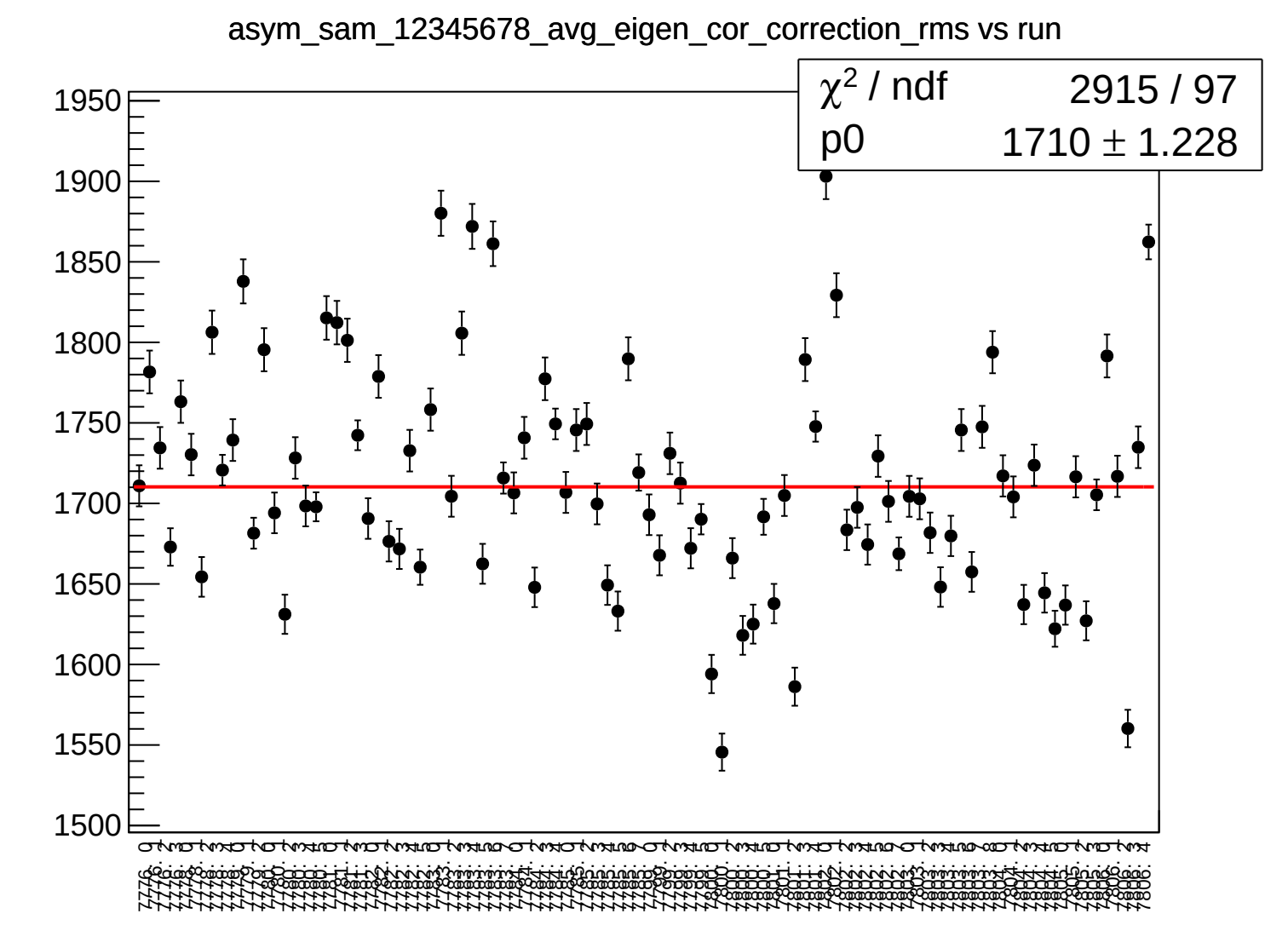

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 69.61 / 97
p0 −846 ± 1737
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −874
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.003723
Std Dev 0.8428
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

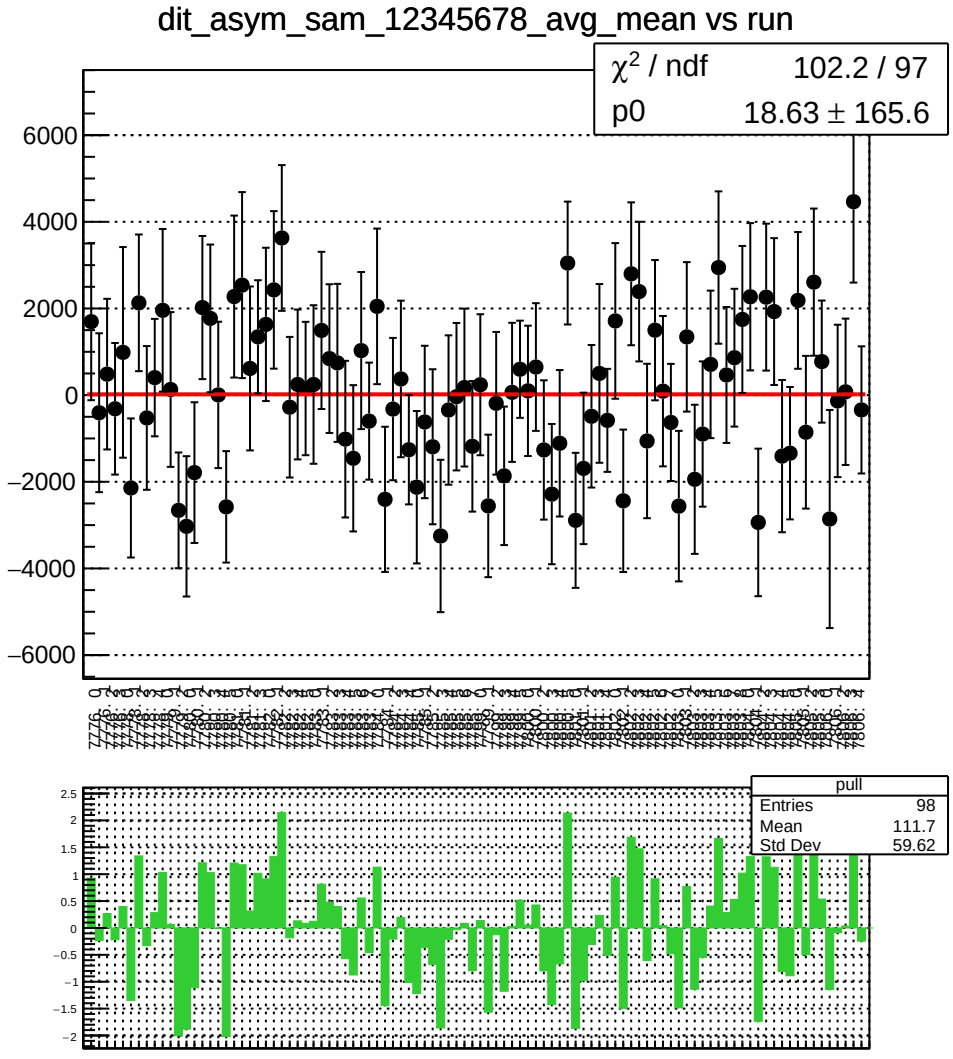

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 2915 / 97
p0 1710 ± 1.228
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

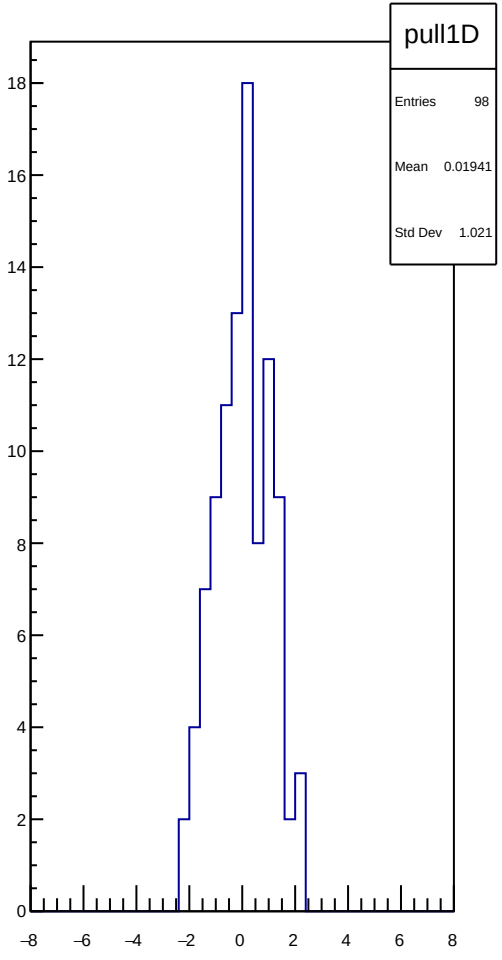

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 100.4 / 97
p0 −41.75 ± 155.9
6000
4000
2000
0
−2000
−4000
pull
Entries 98
Mean 167.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.01727
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

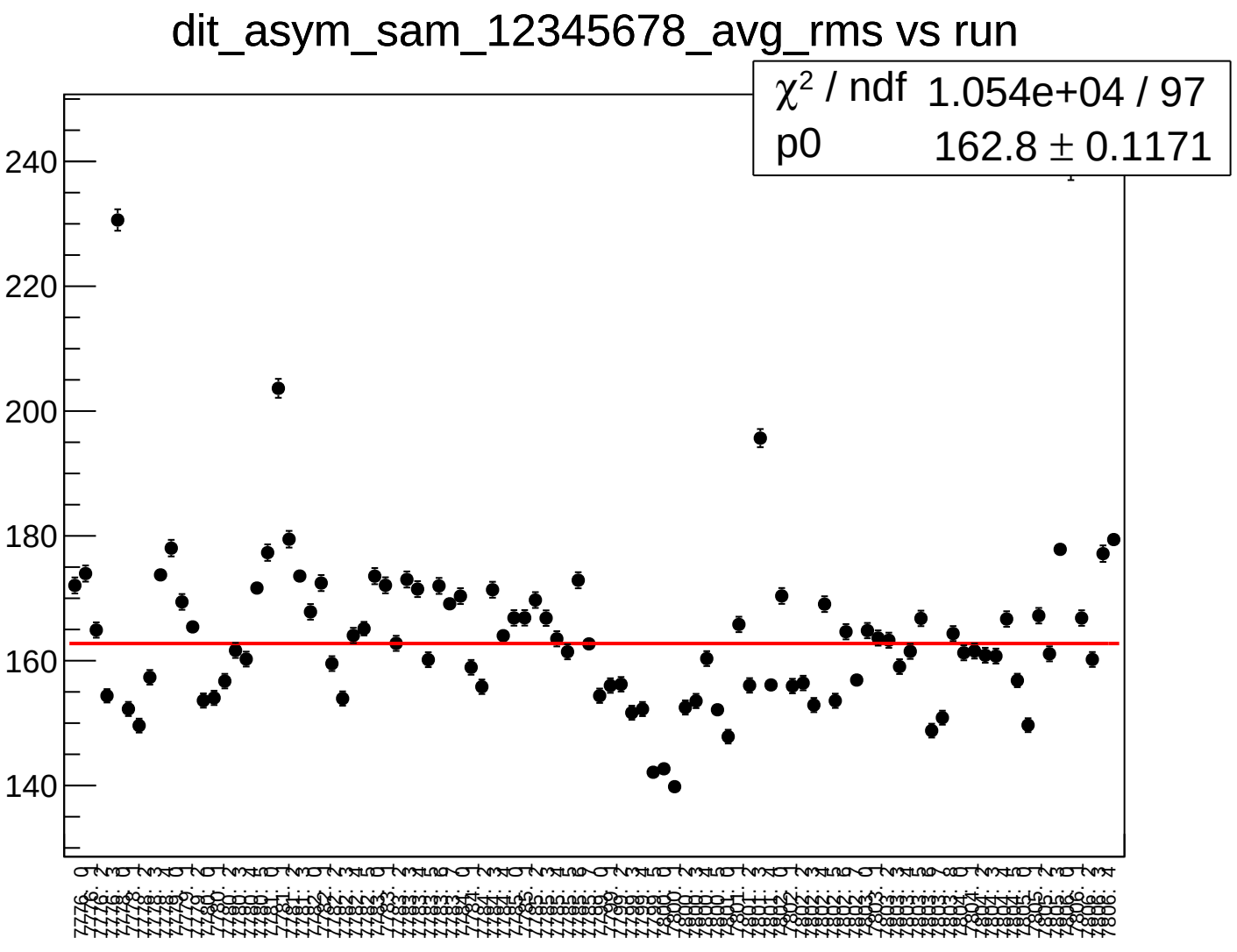

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 7095 / 97
p0 153.4 ± 0.1102
190
180
170
160
150
140
130

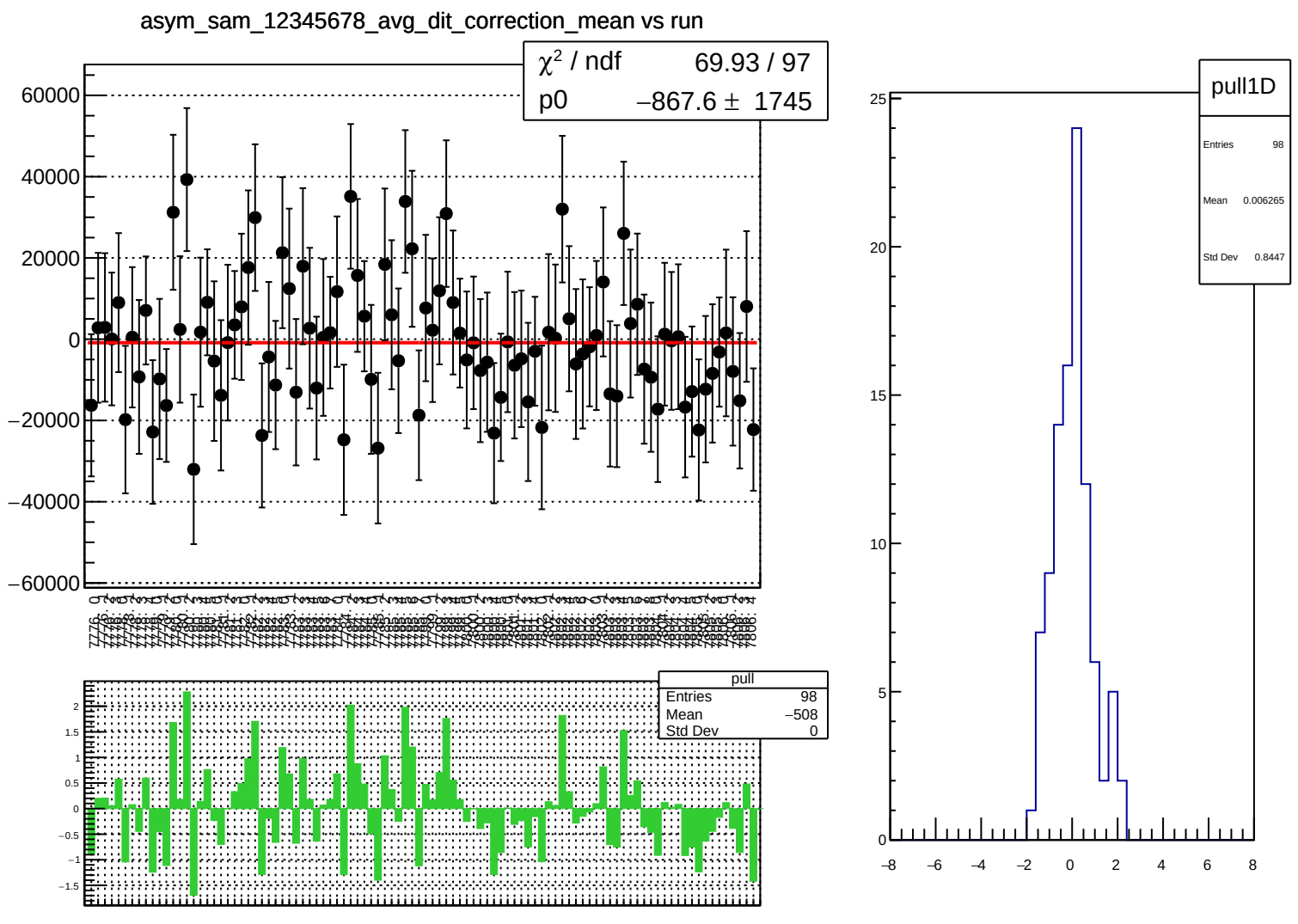

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.61 / 97
p0 −846 ± 1737
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −874
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.003723
Std Dev 0.8428
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

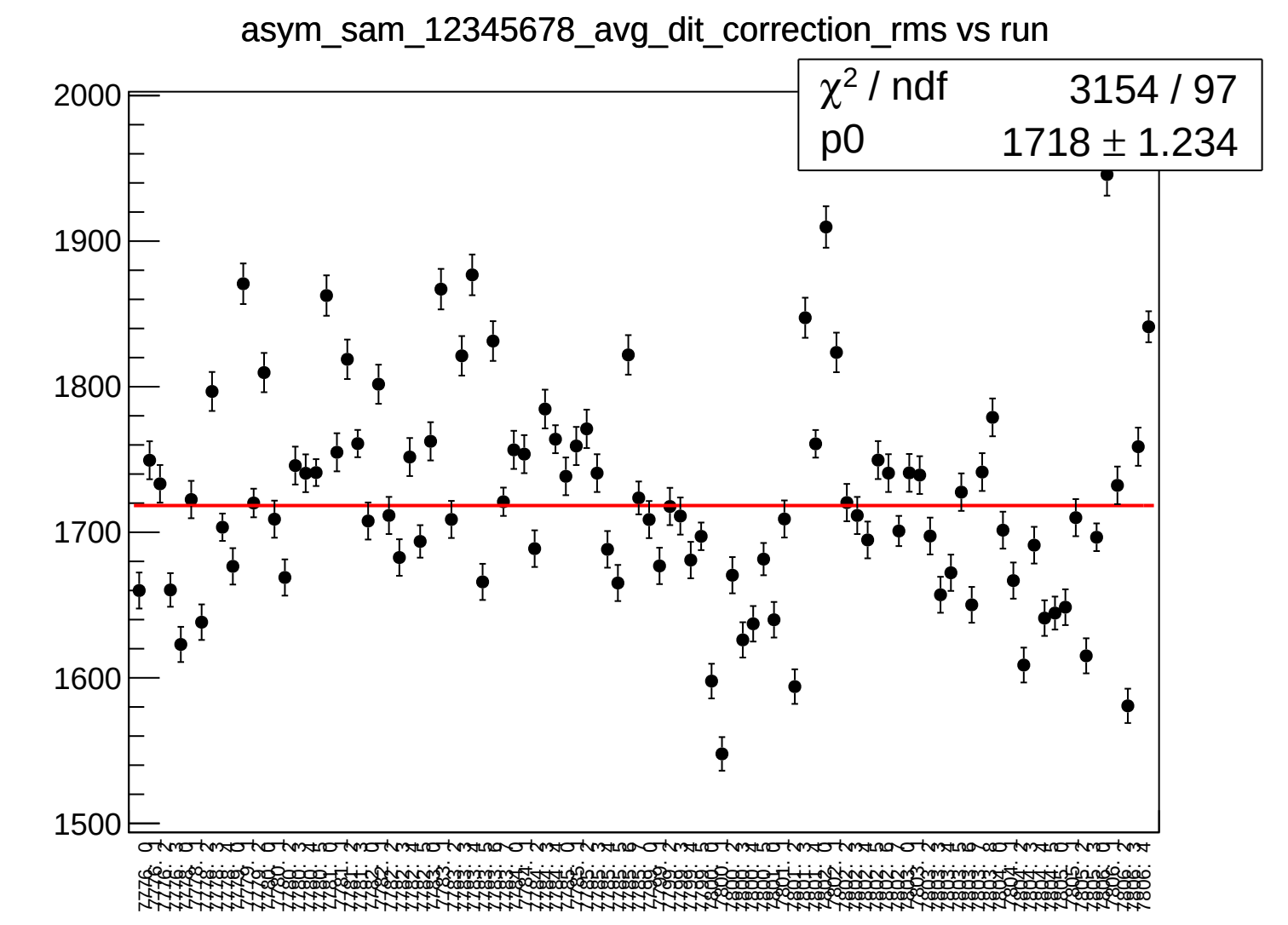

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 2915 / 97
p0 1710 ± 1.228
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

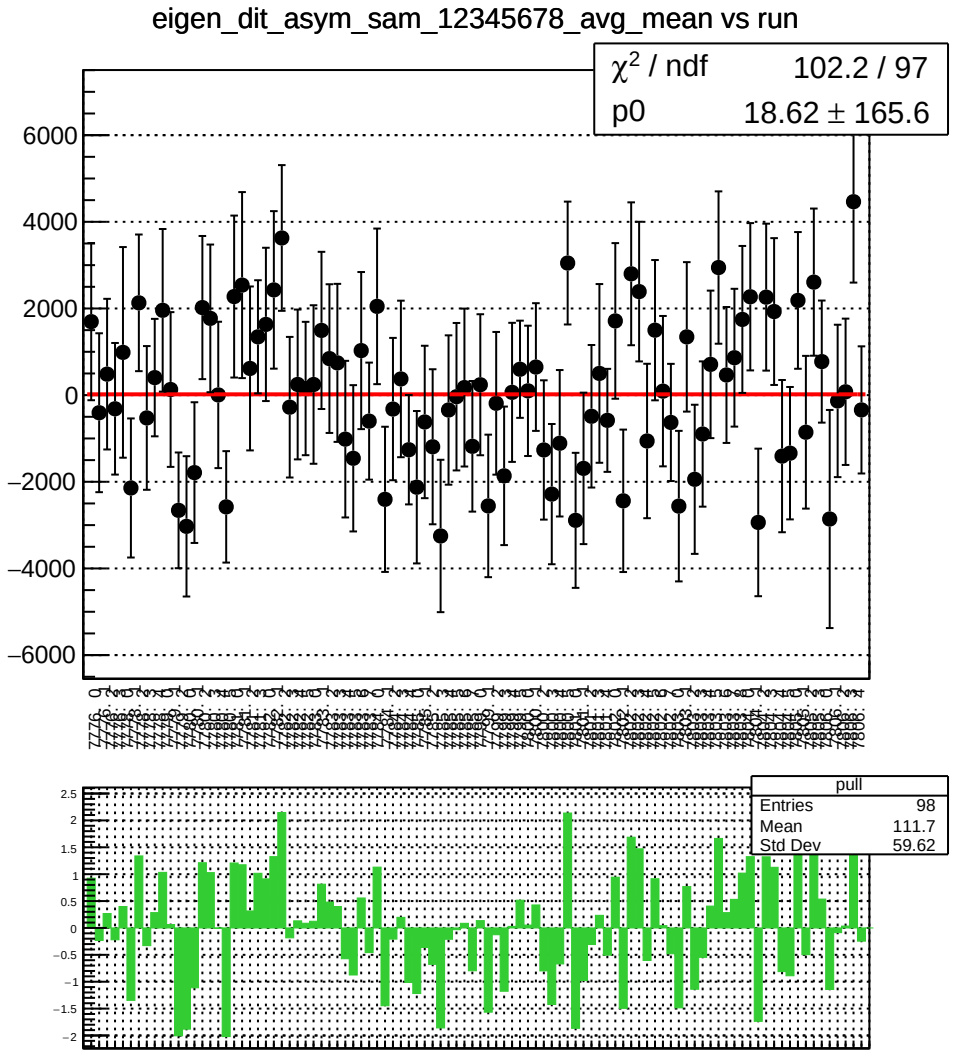

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 102.2 / 97
p0 18.63 ± 165.6
pull
Entries 98
Mean 111.7
Std Dev 59.62

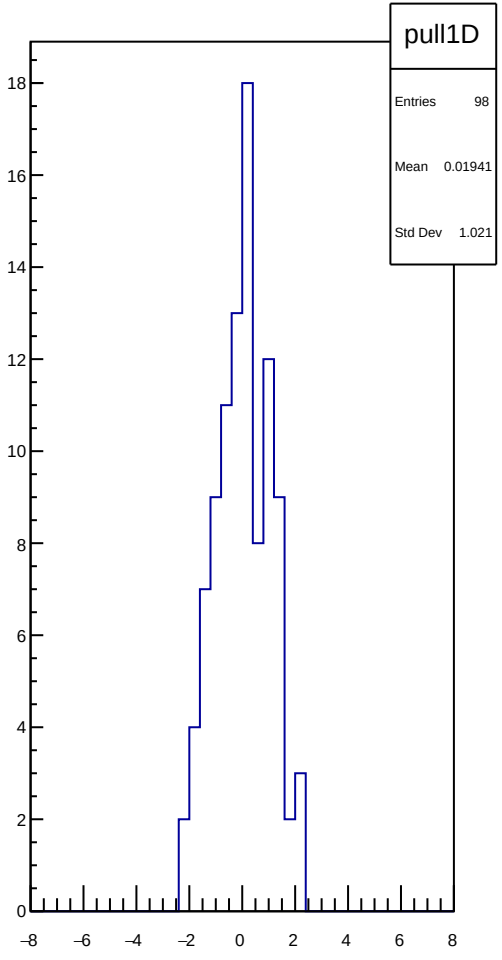

pull1D
Entries 98
Mean 0.01941
Std Dev 1.021

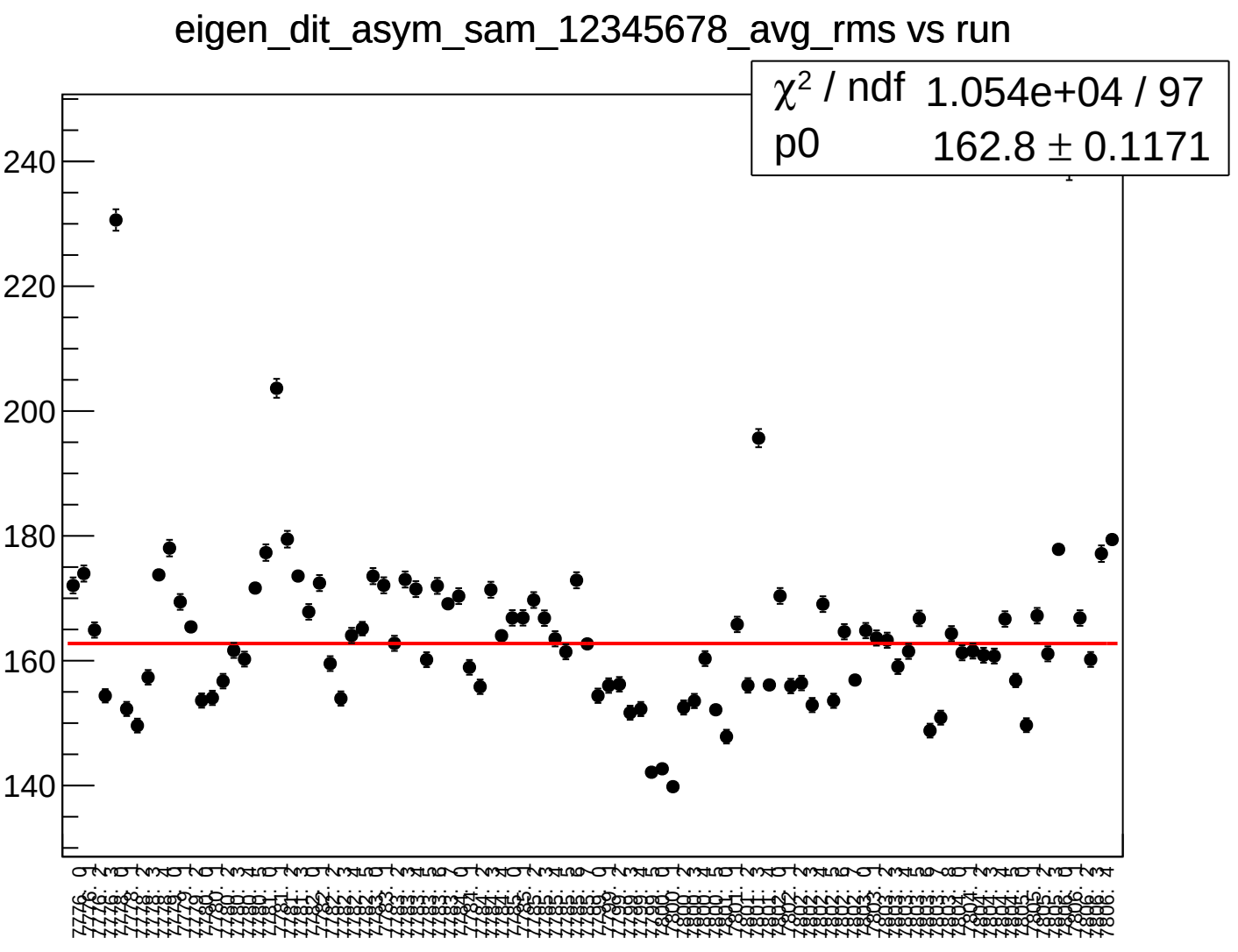

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.054e+04 / 97
p0 162.8 ± 0.1171
240
220
200
180
160
140

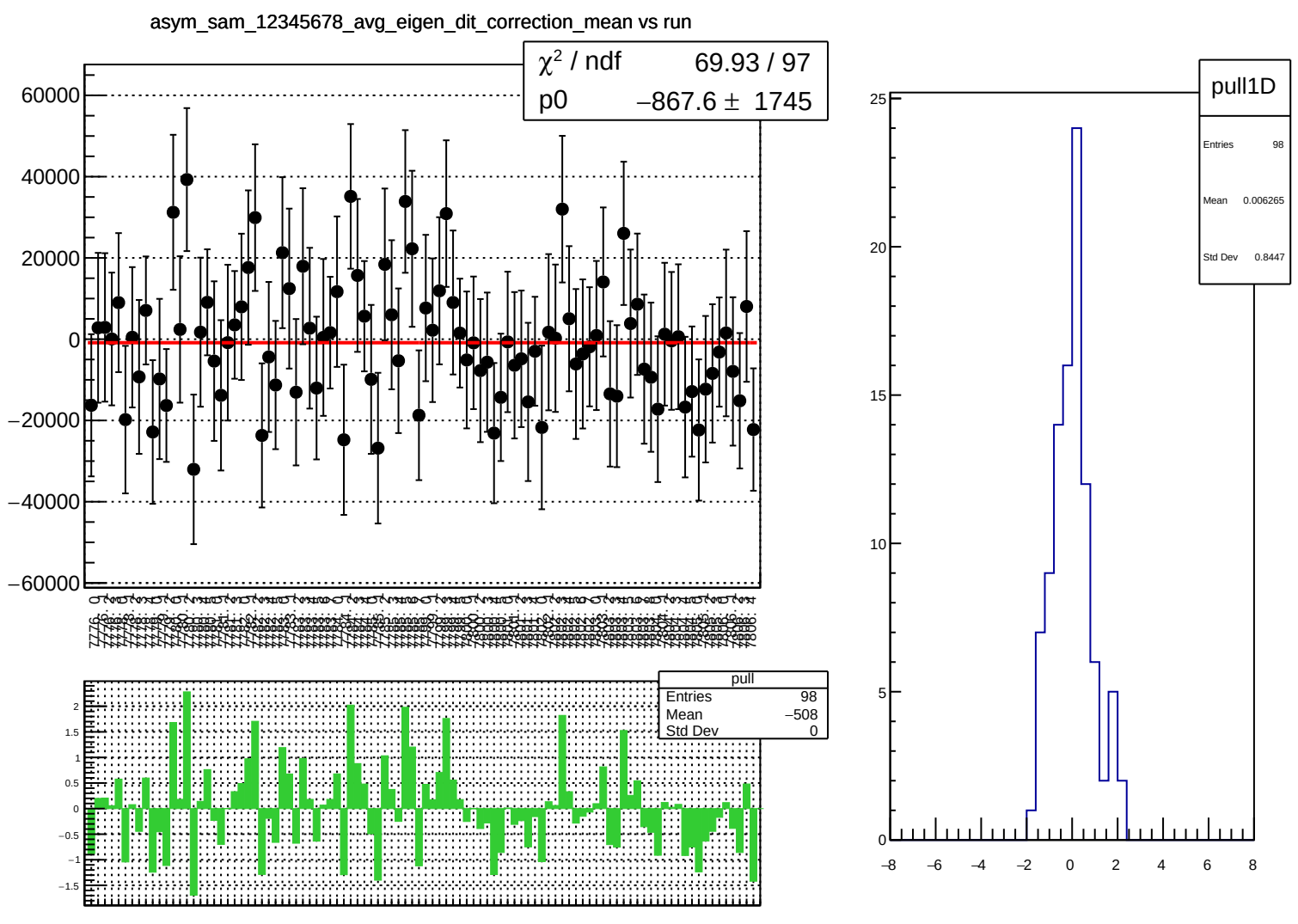

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 69.93 / 97
p0 −867.6 ± 1745
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −508
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.006265
Std Dev 0.8447
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

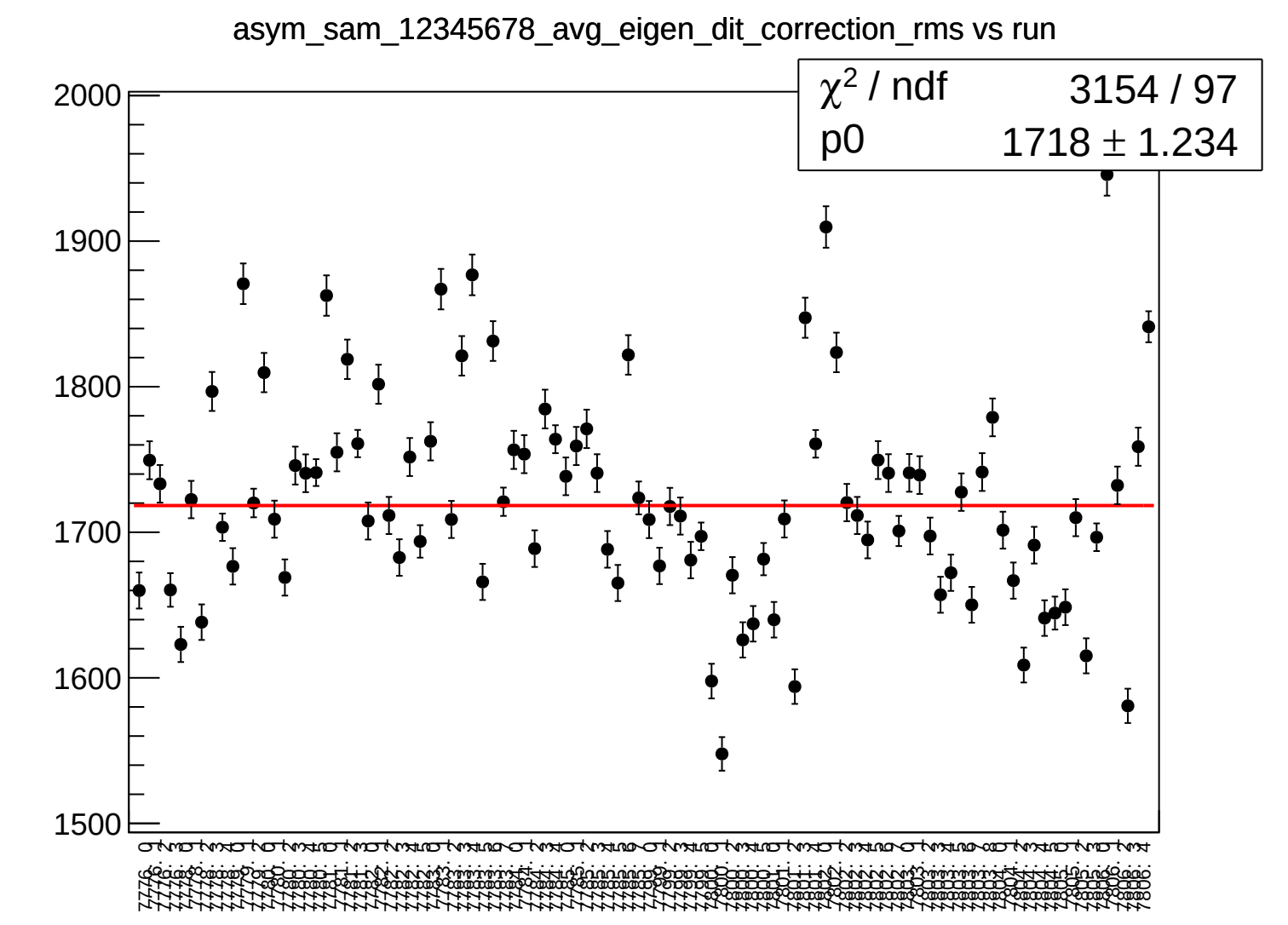

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 3154 / 97
p0 1718 ± 1.234
2000
1900
1800
1700
1600
1500

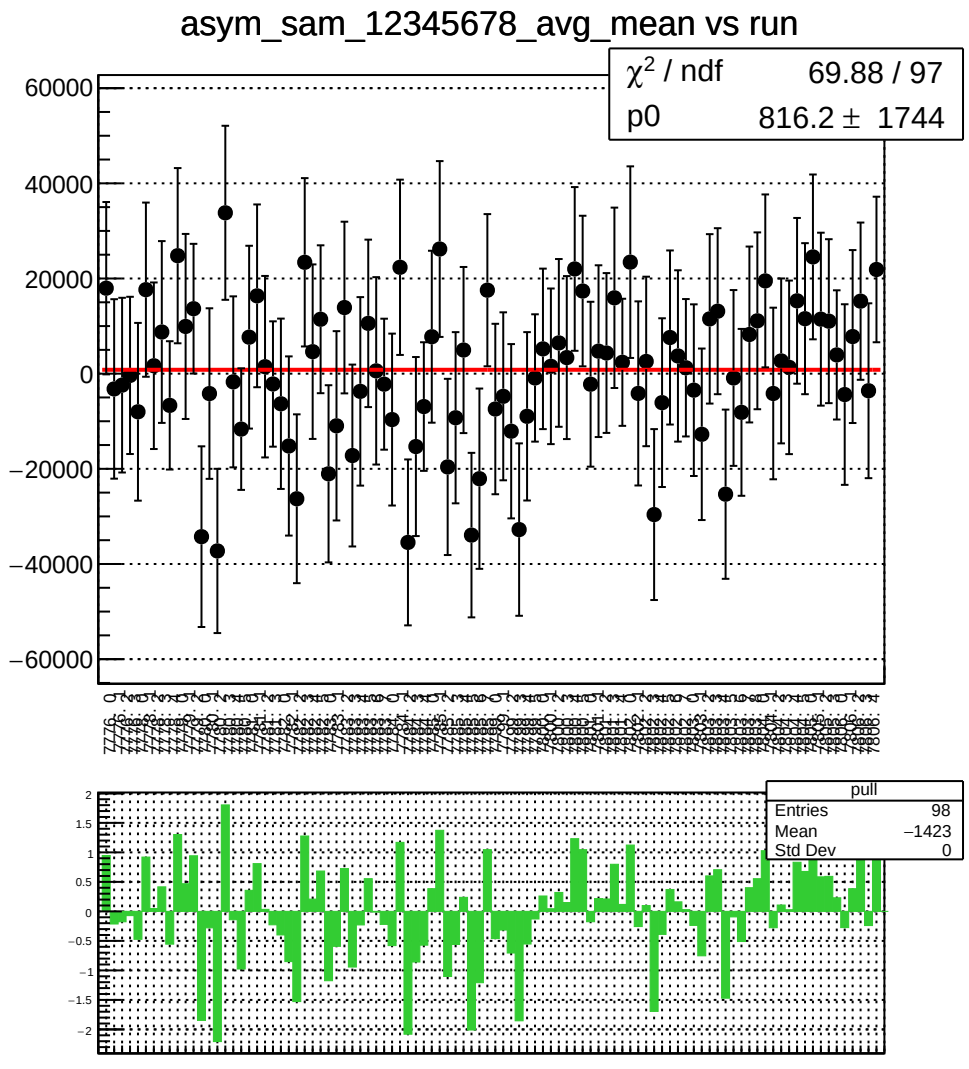

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 102.2 / 97
p0 18.62 ± 165.6
pull
Entries 98
Mean 111.7
Std Dev 59.62

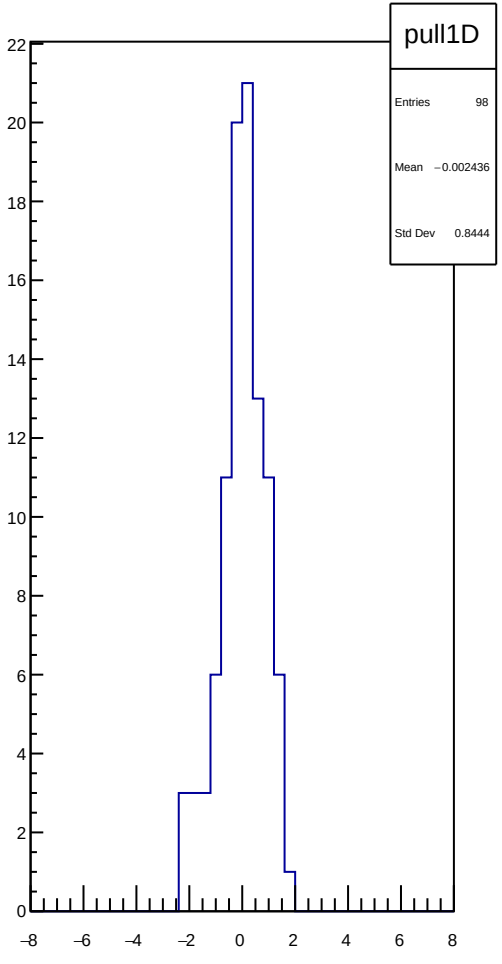

pull1D
Entries 98
Mean 0.01941
Std Dev 1.021

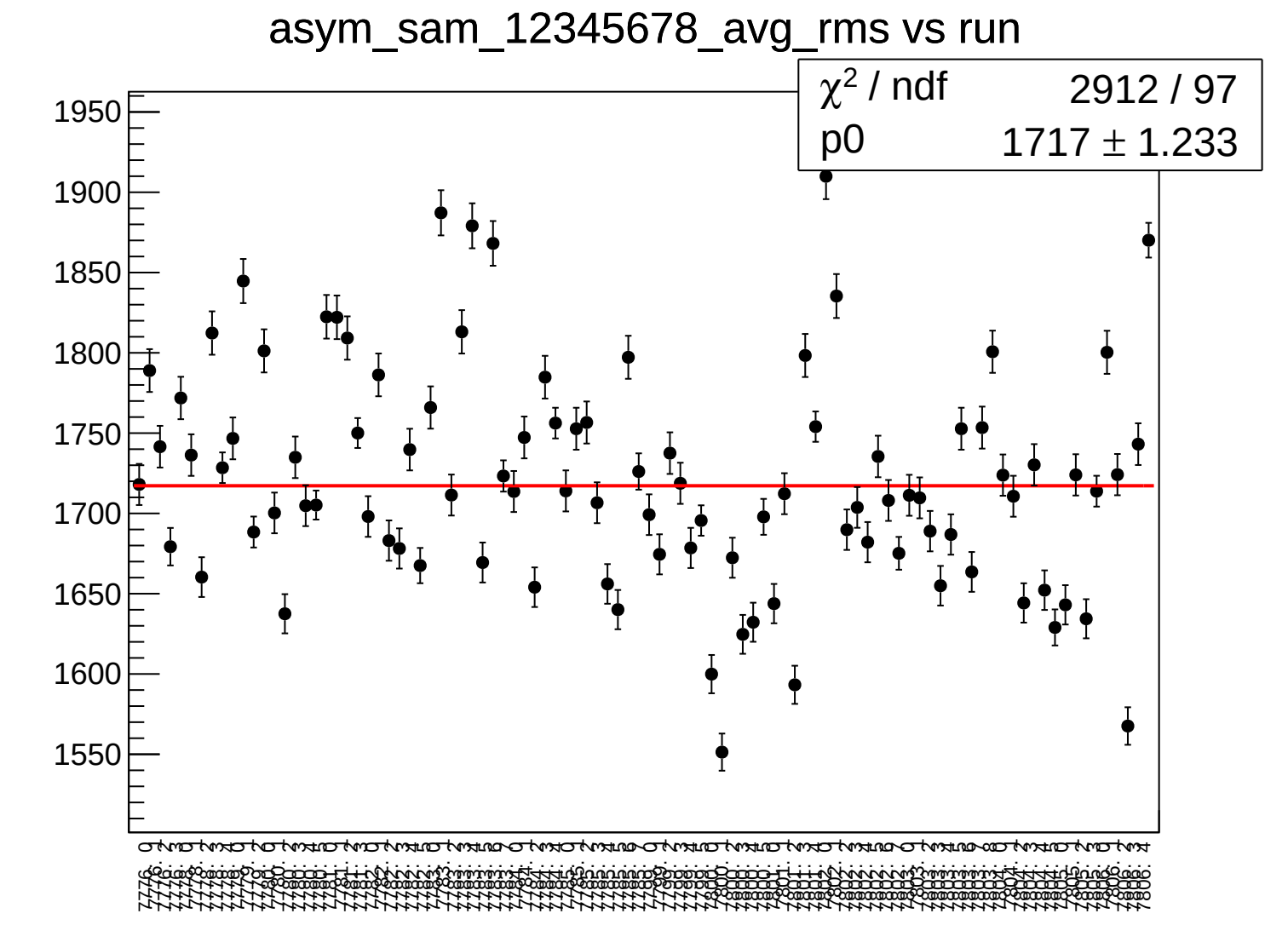

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.054e+04 / 97
p0 162.8 ± 0.1171
240
220
200
180
160
140

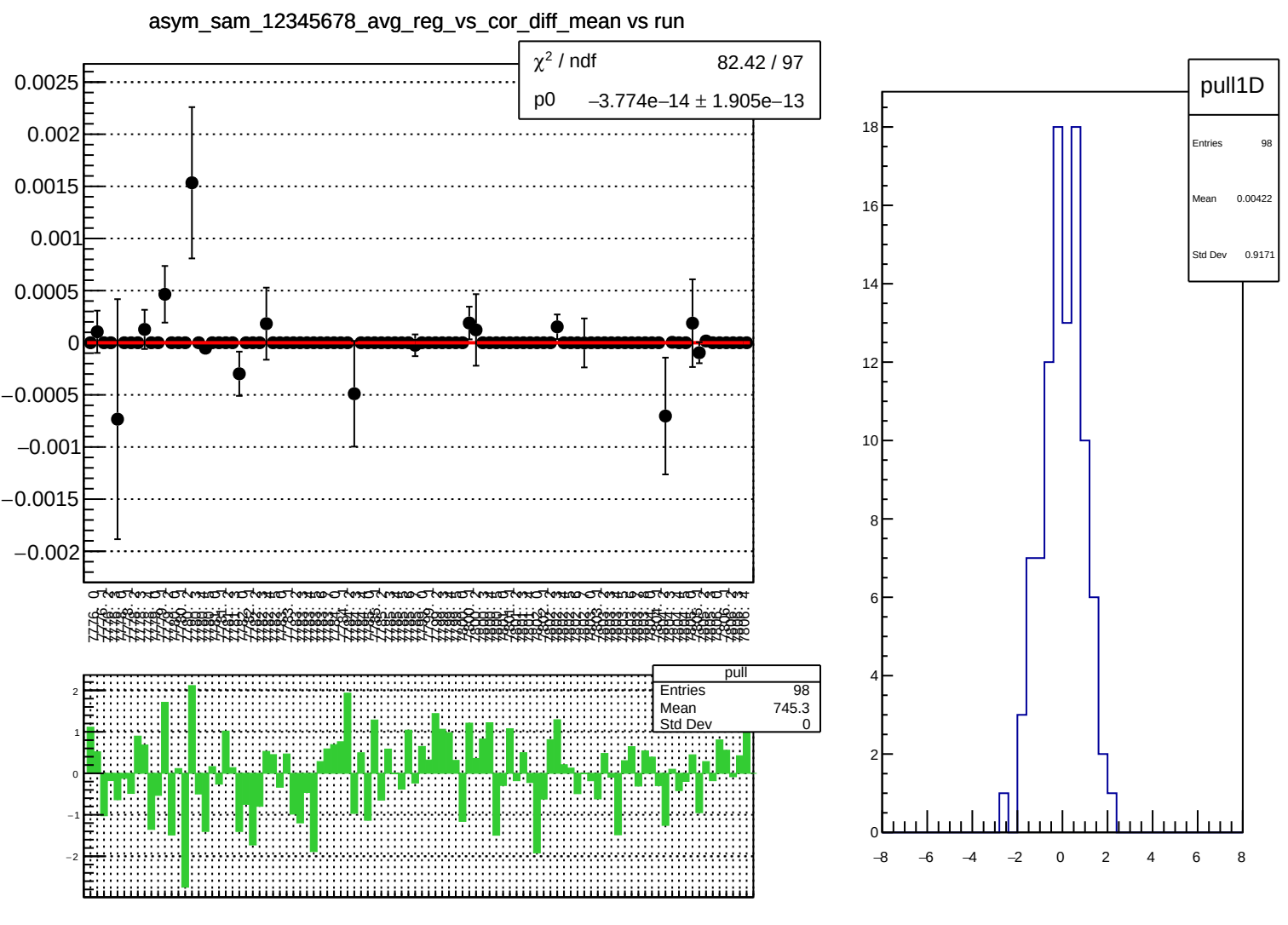

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.93 / 97
p0 −867.6 ± 1745
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −508
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.006265
Std Dev 0.8447
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

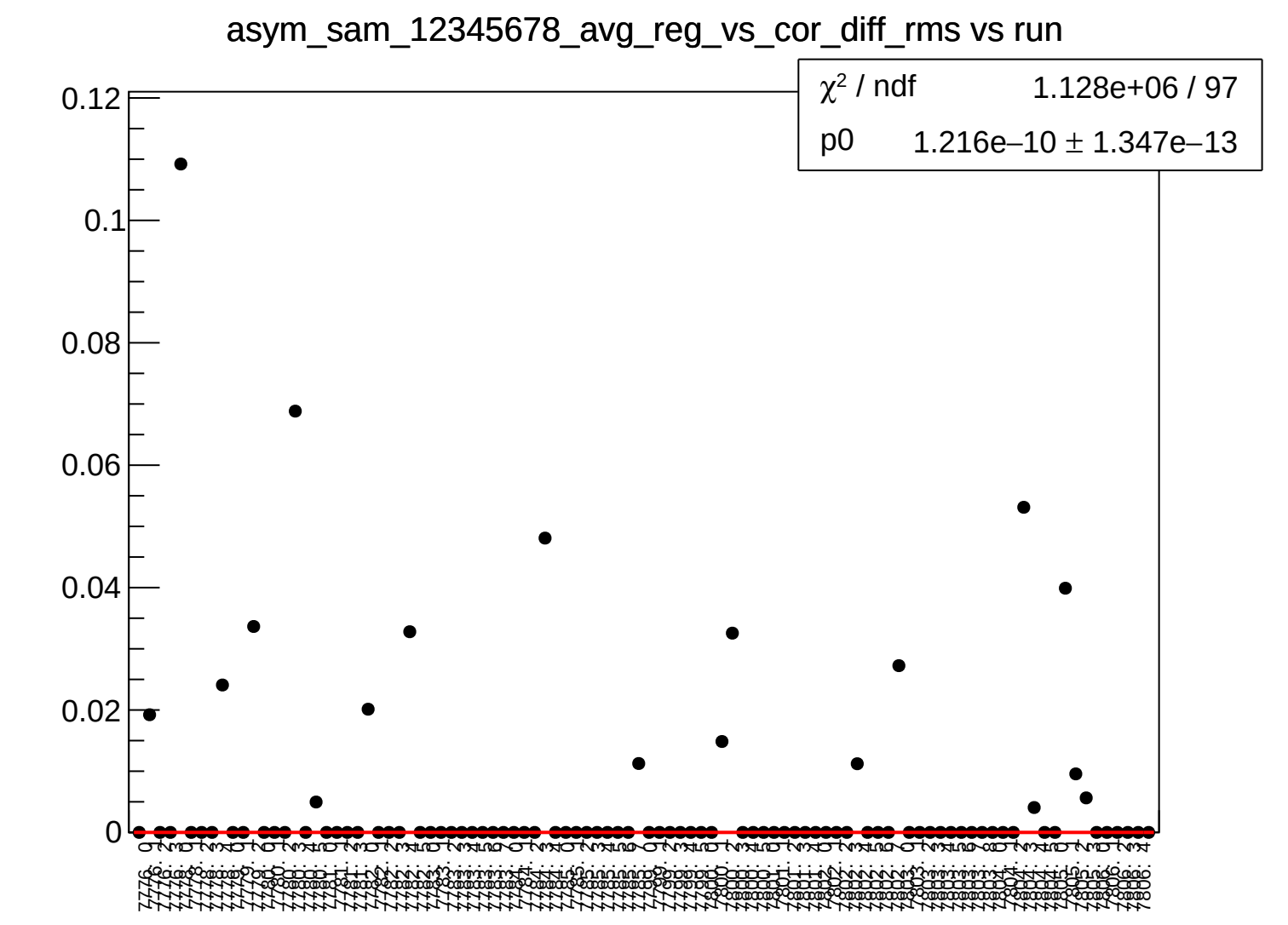

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 3154 / 97
p0 1718 ± 1.234
2000
1900
1800
1700
1600
1500

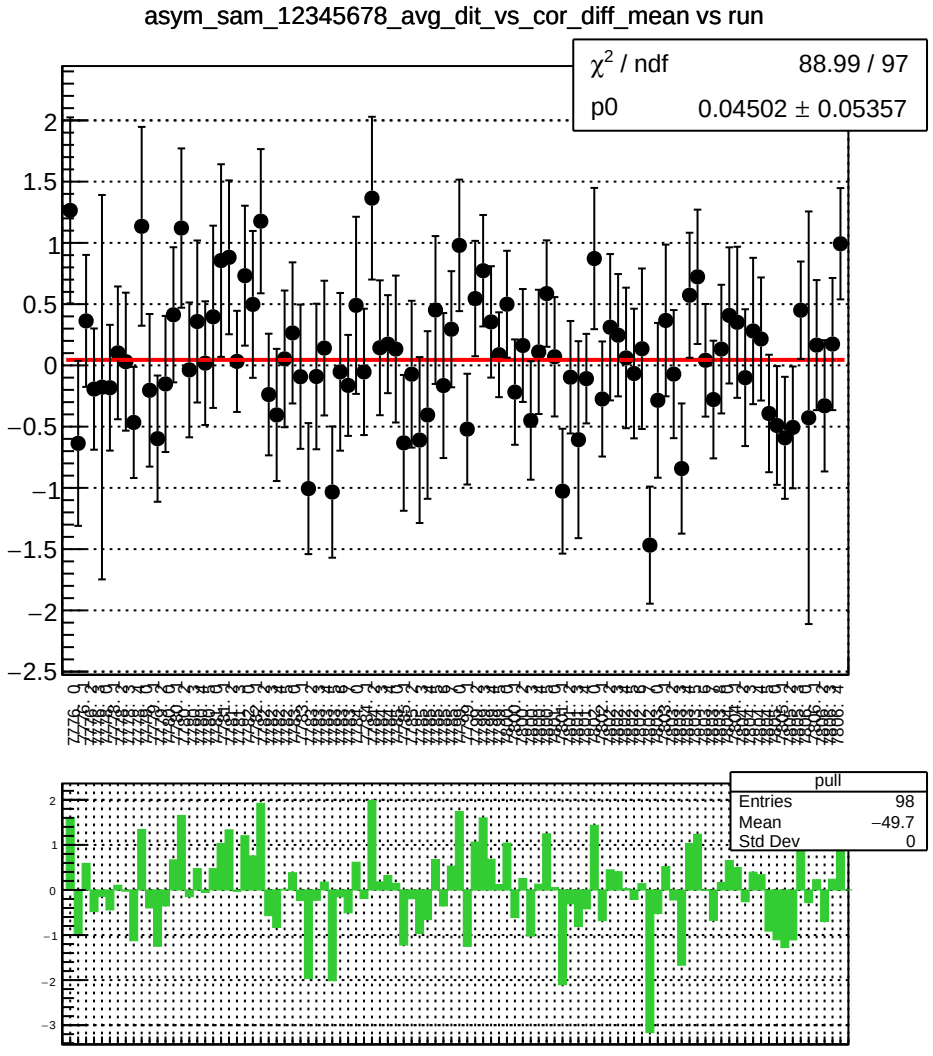

asym_sam_12345678_avg_mean vs run
χ^2 / ndf 69.88 / 97
p0 816.2 ± 1744
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 98
Mean −1423
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

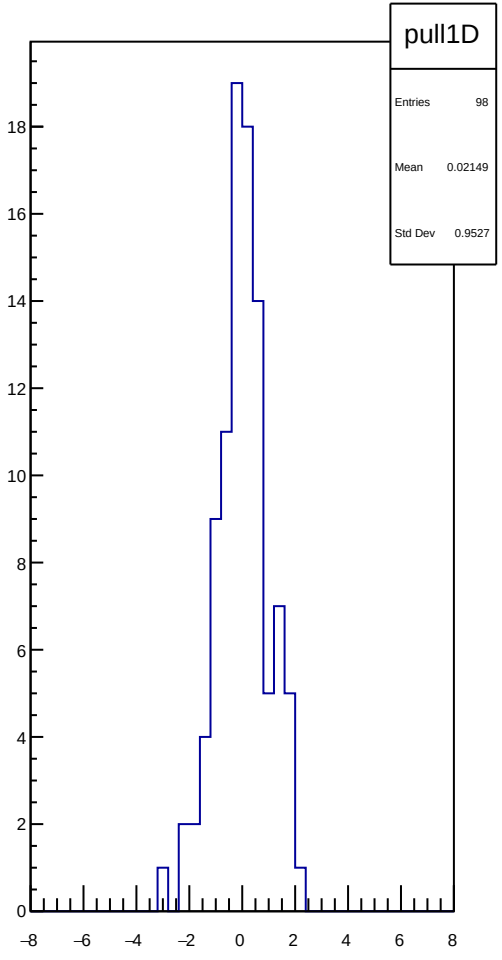

pull1D
Entries 98
Mean −0.002436
Std Dev 0.8444
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

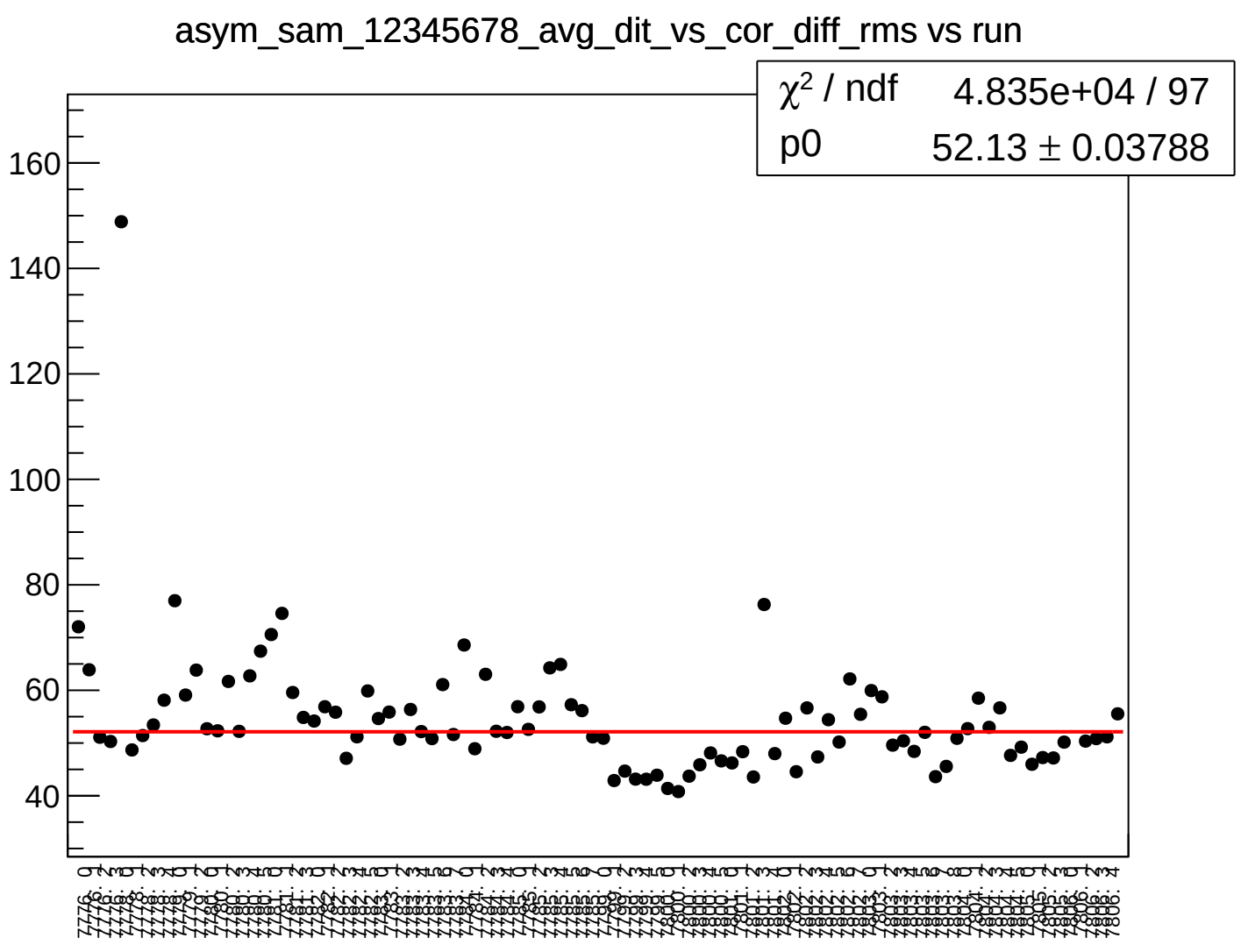

asym_sam_12345678_avg_rms vs run
χ² / ndf 2912 / 97
p0 1717 ± 1.233
1950
1900
1850
1800
1750
1700
1650
1600
1550

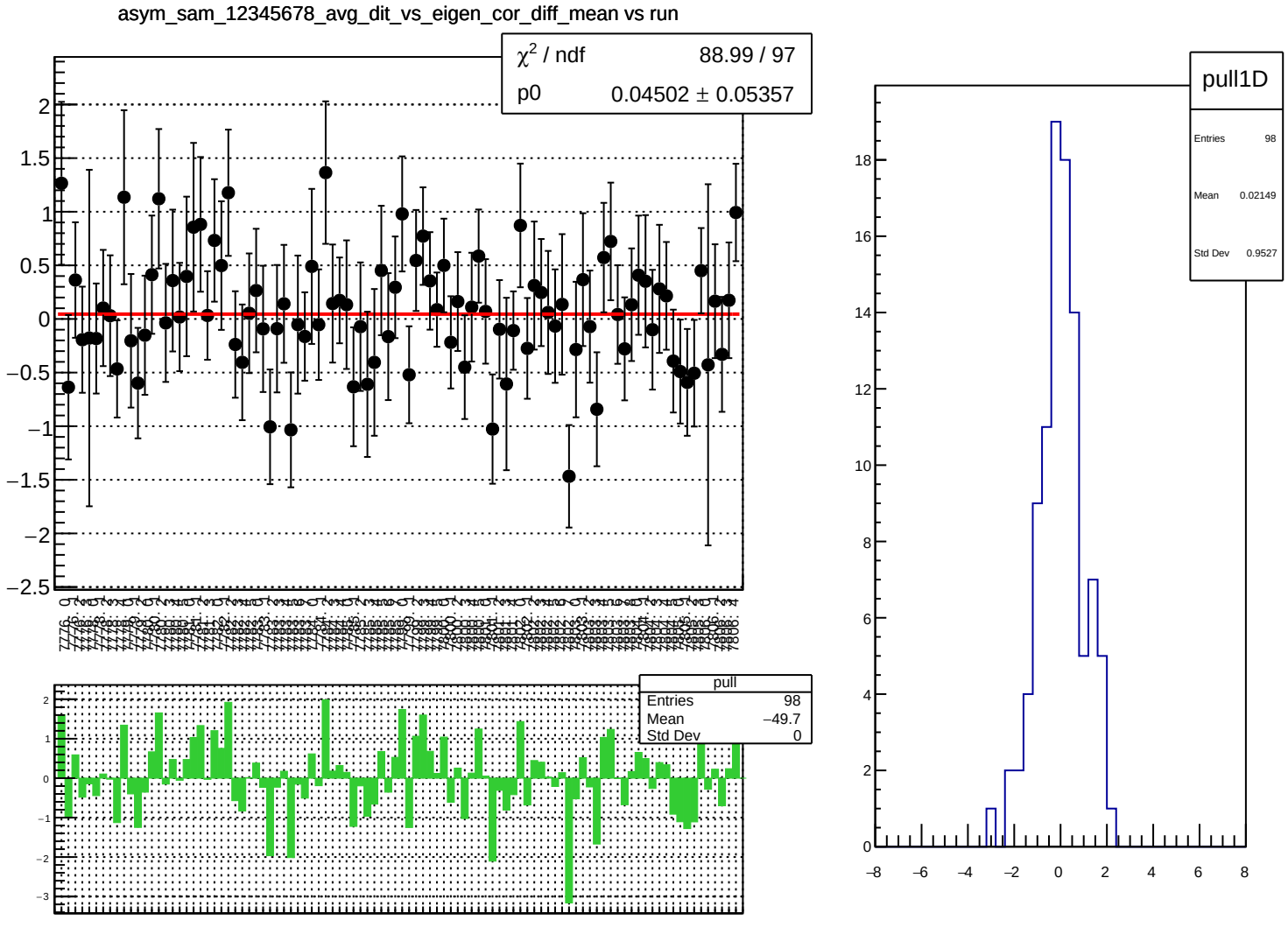

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.42 / 97
p0 −3.774e−14 ± 1.905e−13
pull
Entries 98
Mean 745.3
Std Dev 0
pull1D
Entries 98
Mean 0.00422
Std Dev 0.9171

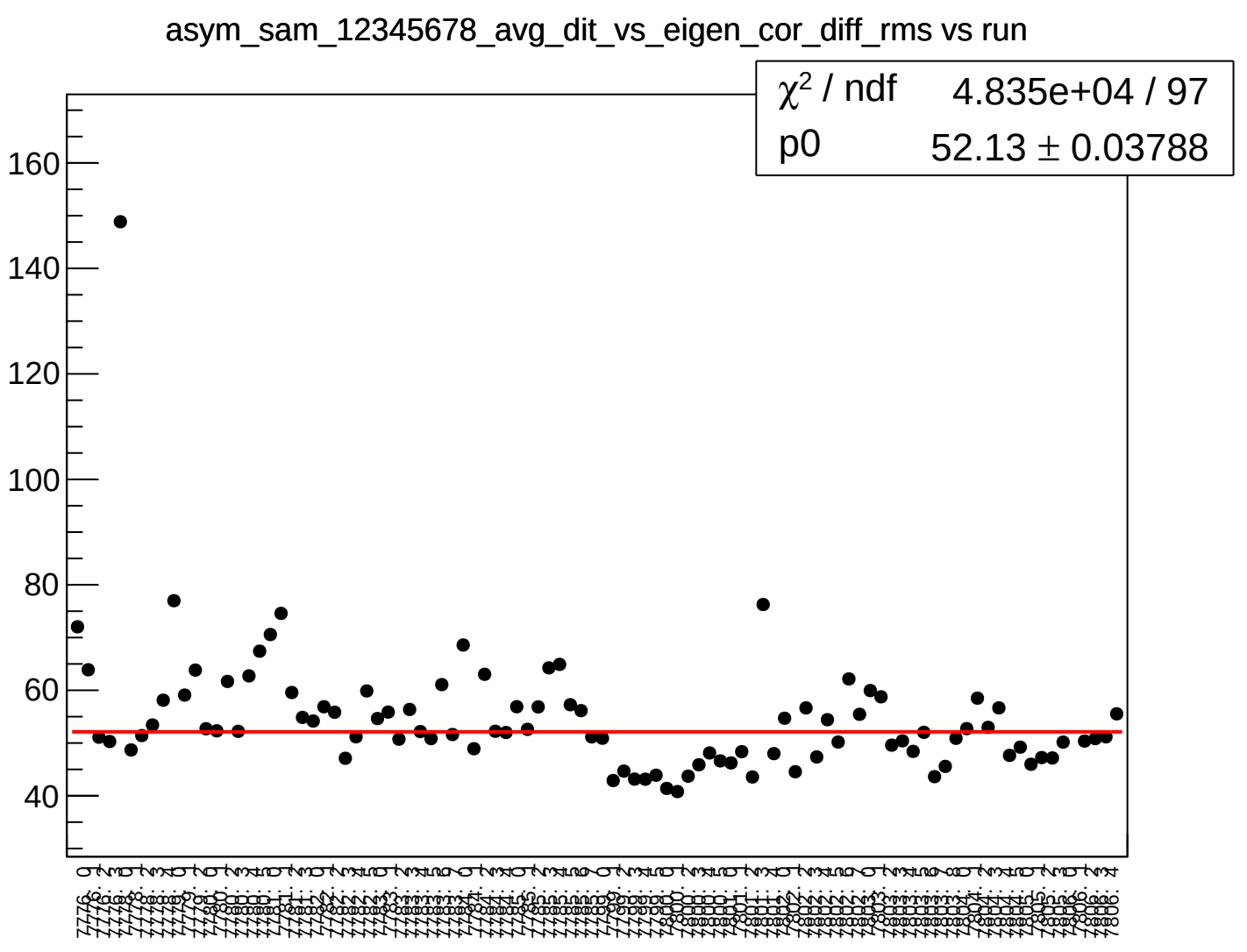

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.128e+06 / 97
p0 1.216e−10 ± 1.347e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

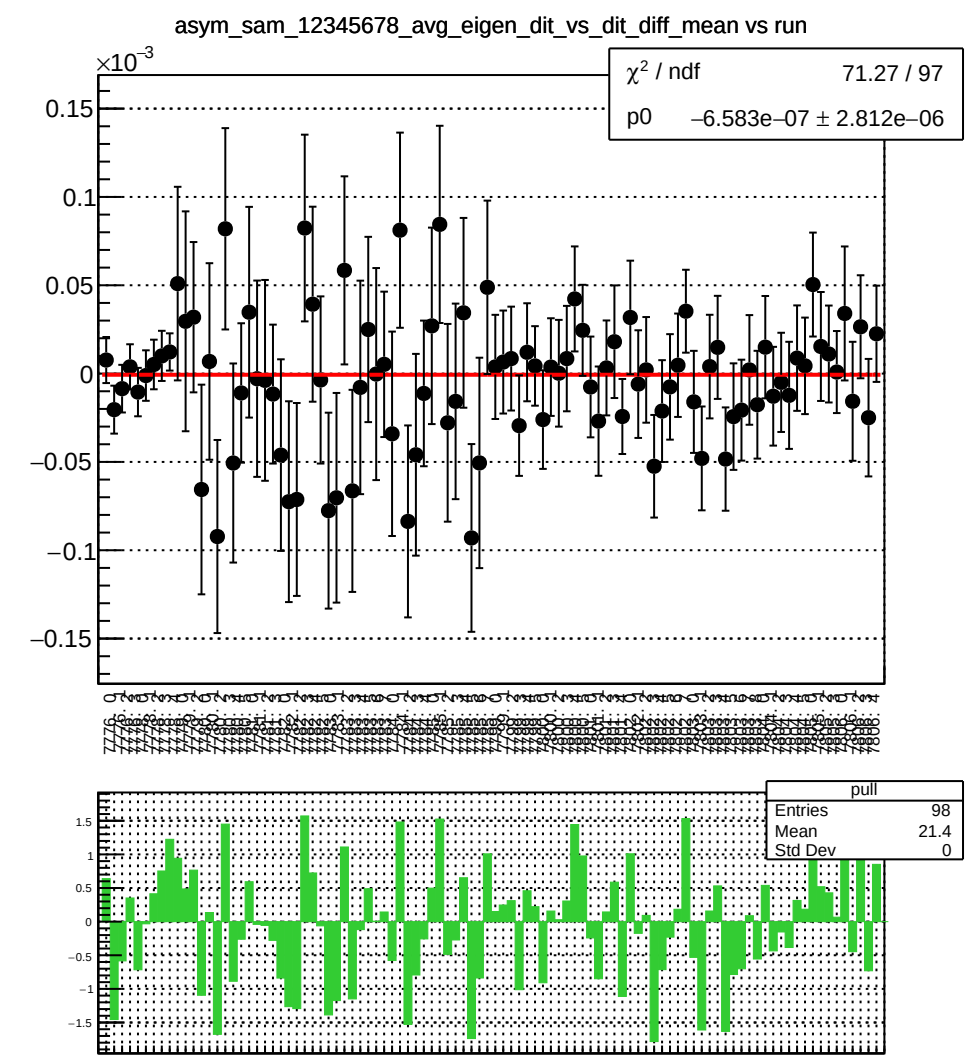

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.99 / 97
p0 0.04502 ± 0.05357
pull
Entries 98
Mean −49.7
Std Dev 0

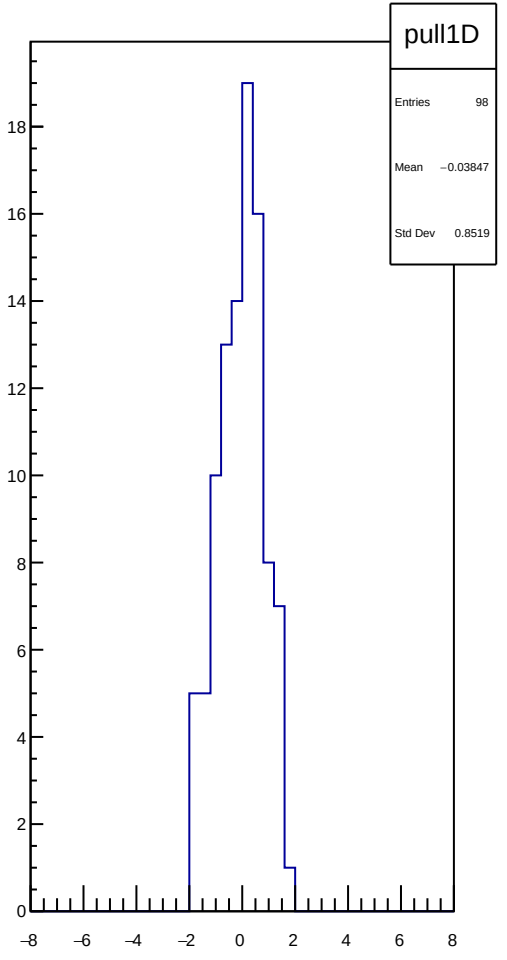

pull1D
Entries 98
Mean 0.02149
Std Dev 0.9527

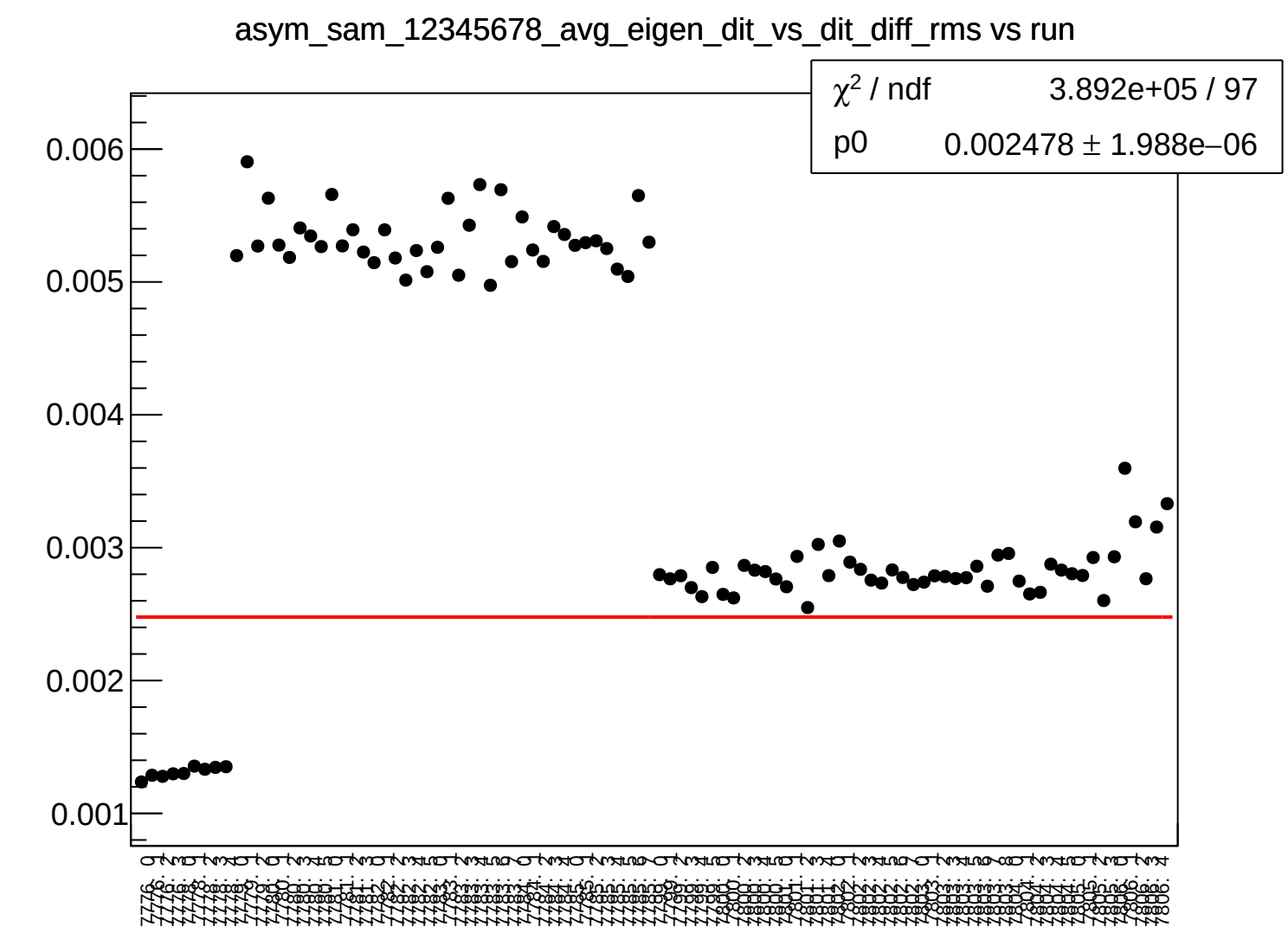

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.835e+04 / 97
p0 52.13 ± 0.03788
160
140
120
100
80
60
40

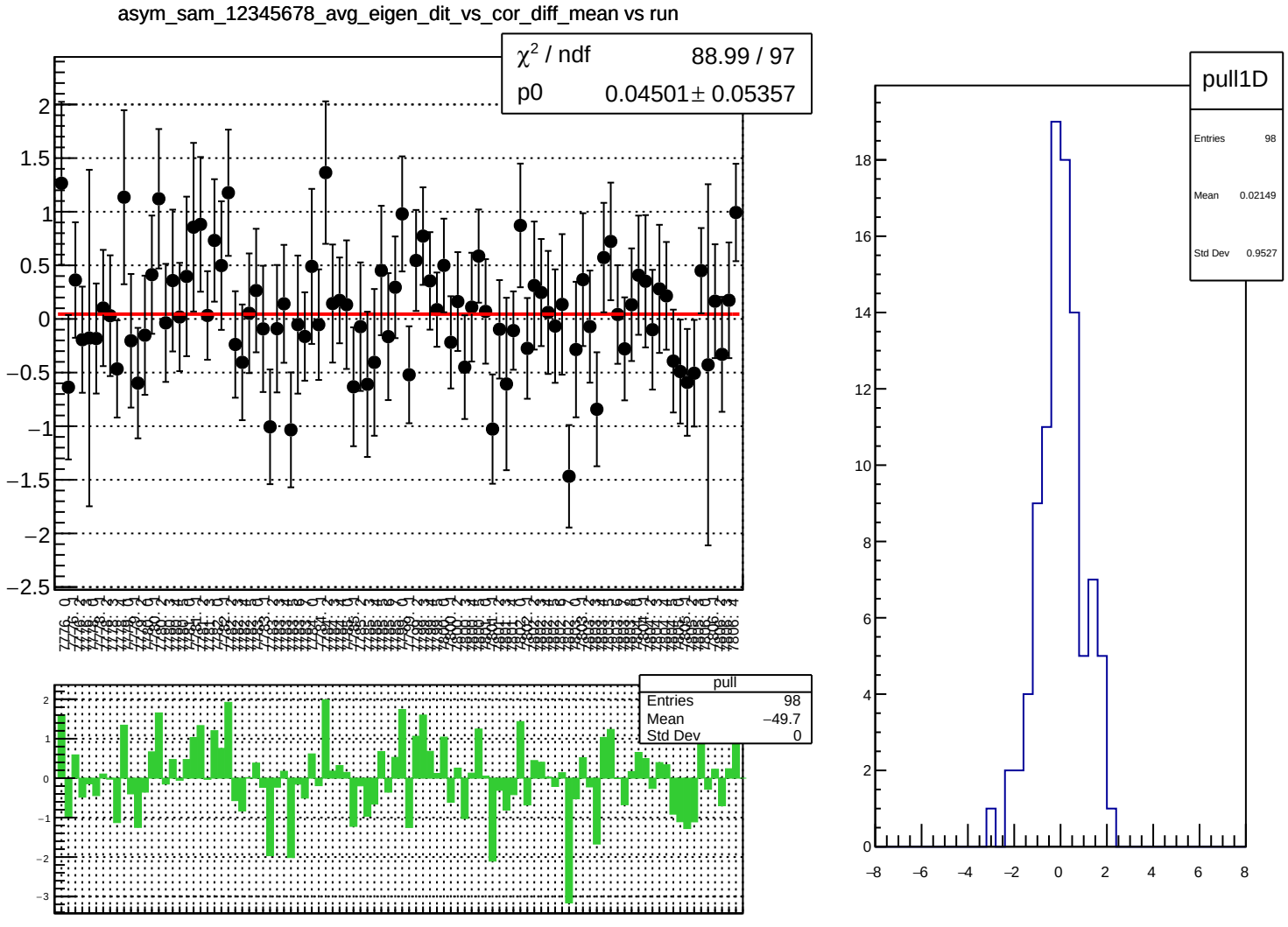

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.99 / 97
p0 0.04502 ± 0.05357
pull
Entries 98
Mean −49.7
Std Dev 0
pull1D
Entries 98
Mean 0.02149
Std Dev 0.9527

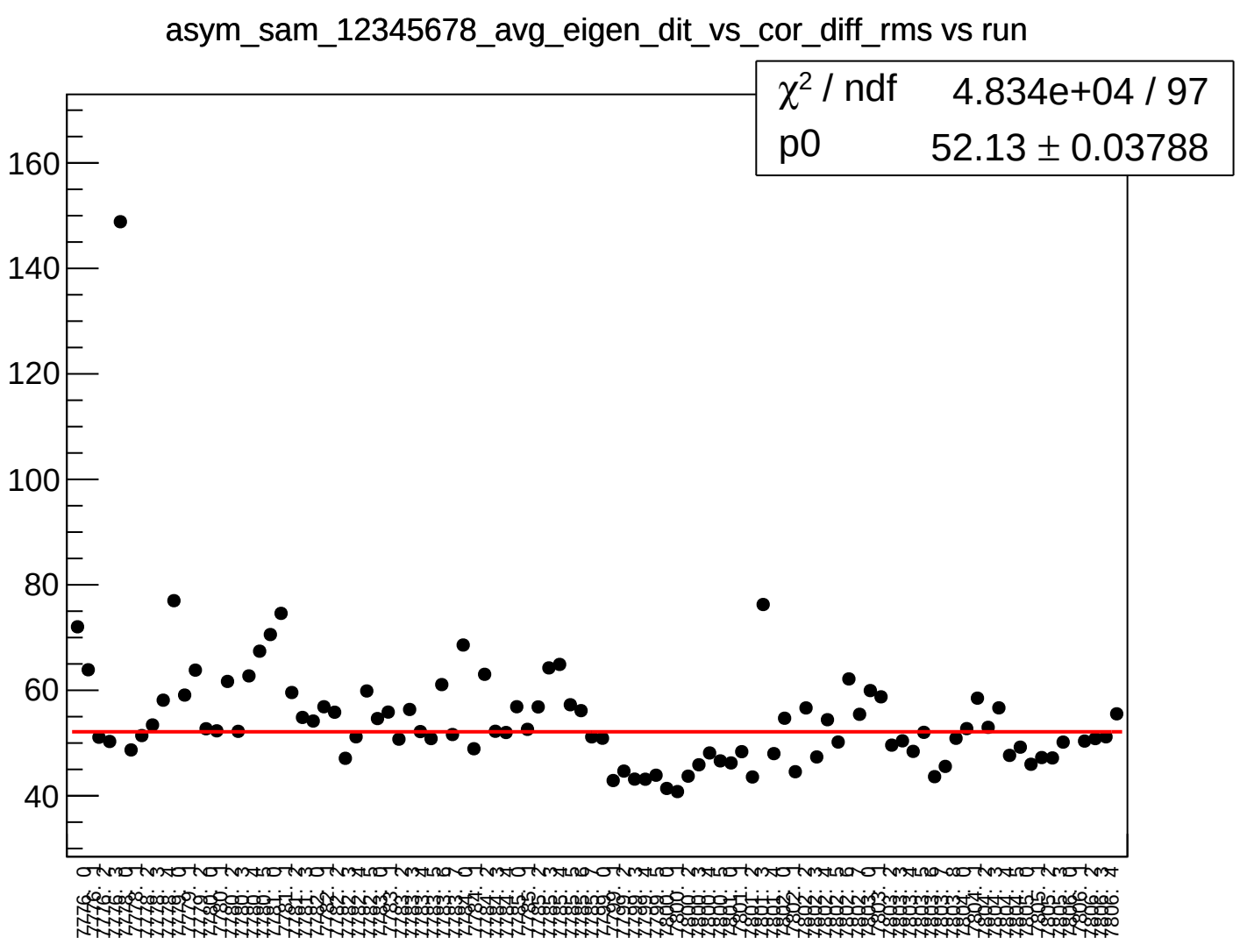

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.835e+04 / 97
p0 52.13 ± 0.03788
160
140
120
100
80
60
40

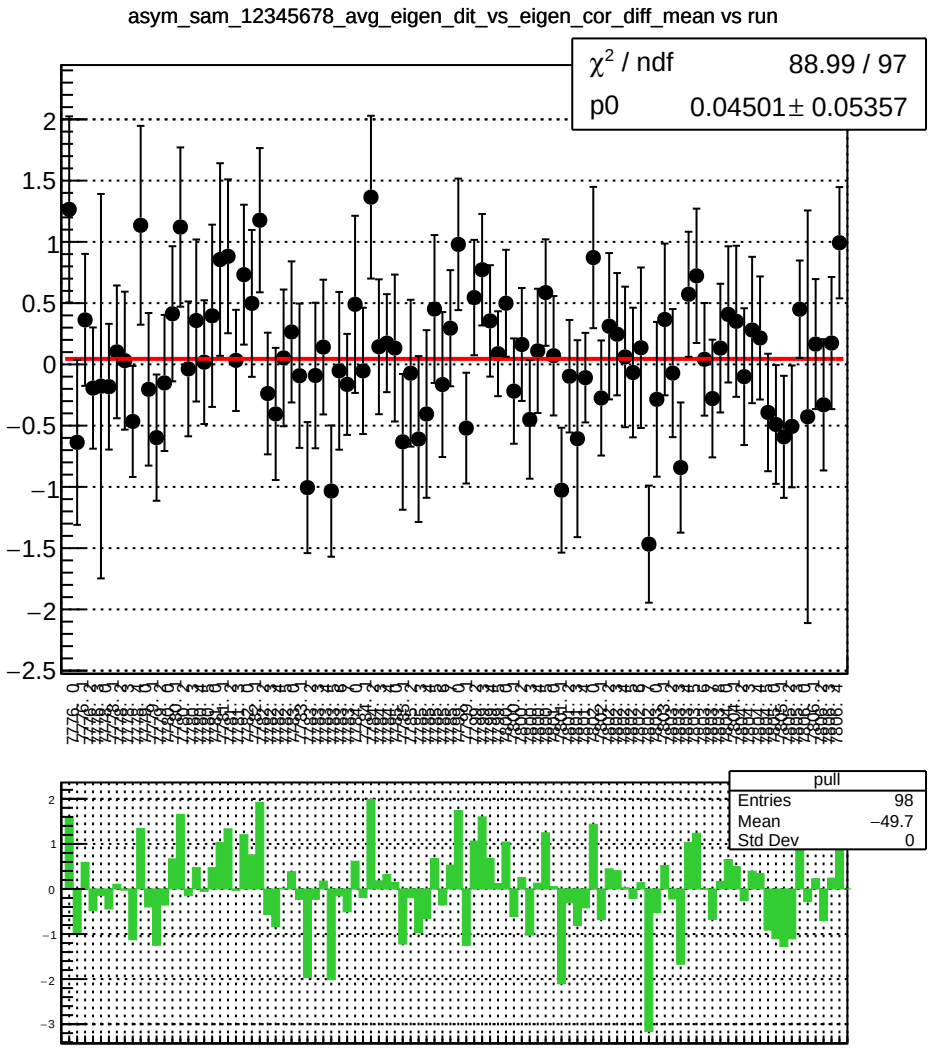

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.27 / 97
p0 −6.583e−07 ± 2.812e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 98
Mean 21.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

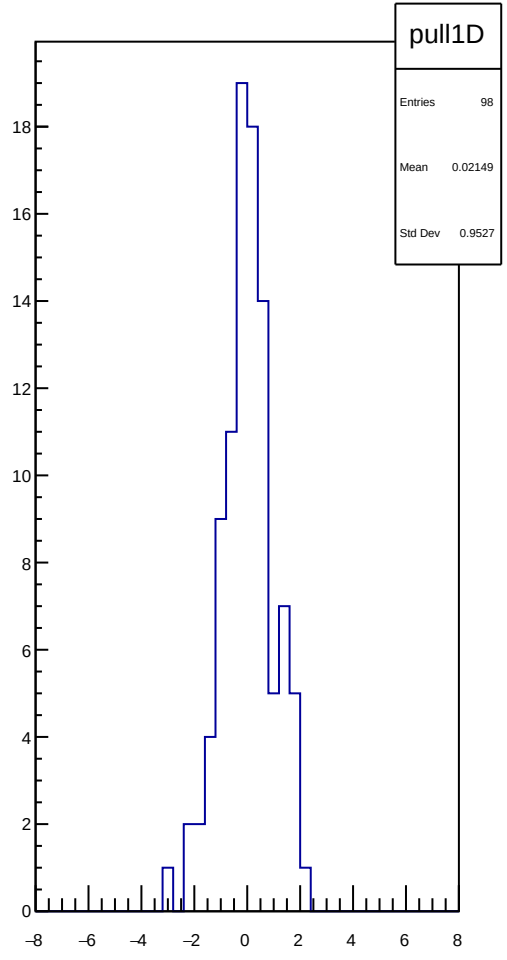

pull1D
Entries 98
Mean −0.03847
Std Dev 0.8519
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

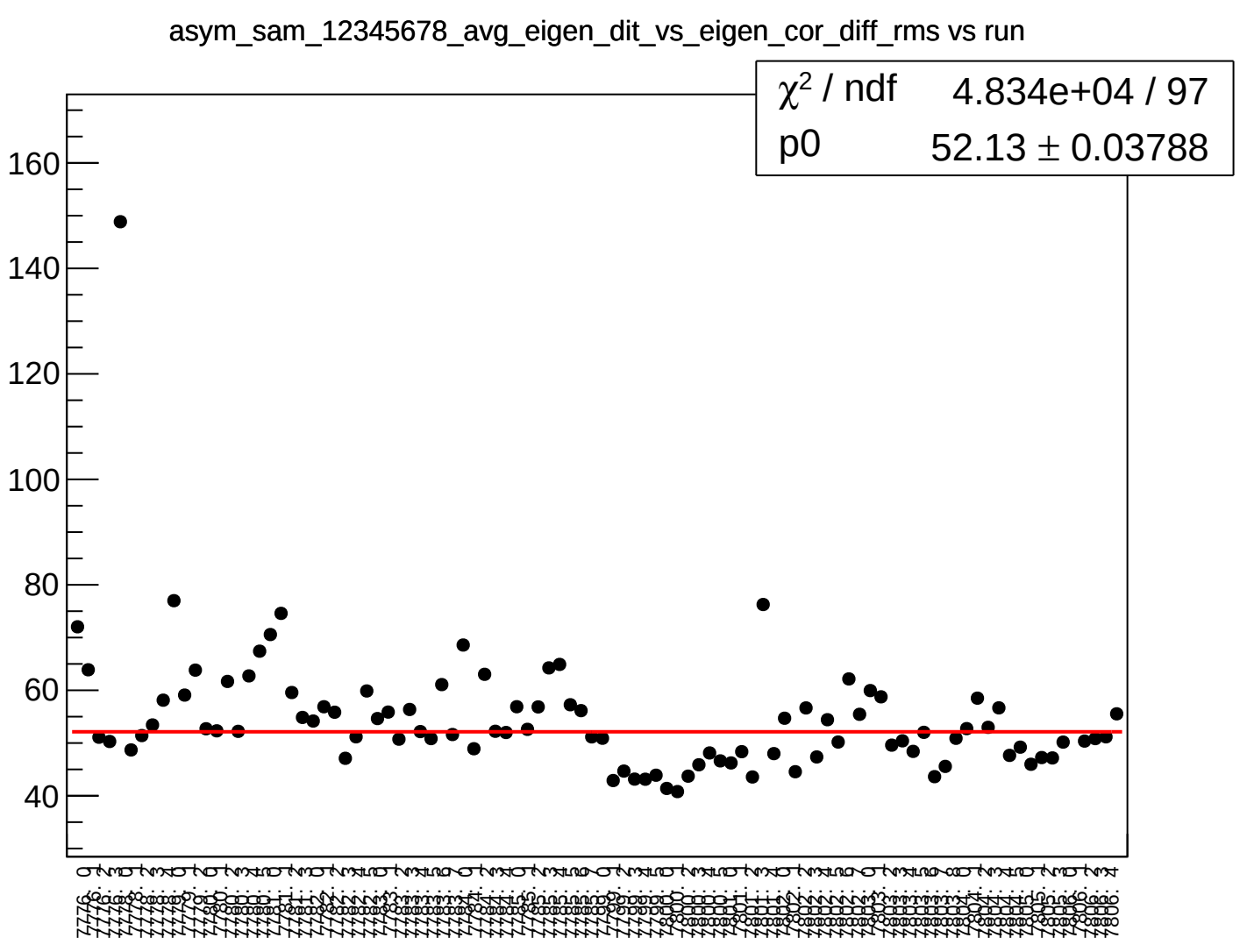

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.892e+05 / 97
p0 0.002478 ± 1.988e−06
0.006
0.005
0.004
0.003
0.002
0.001

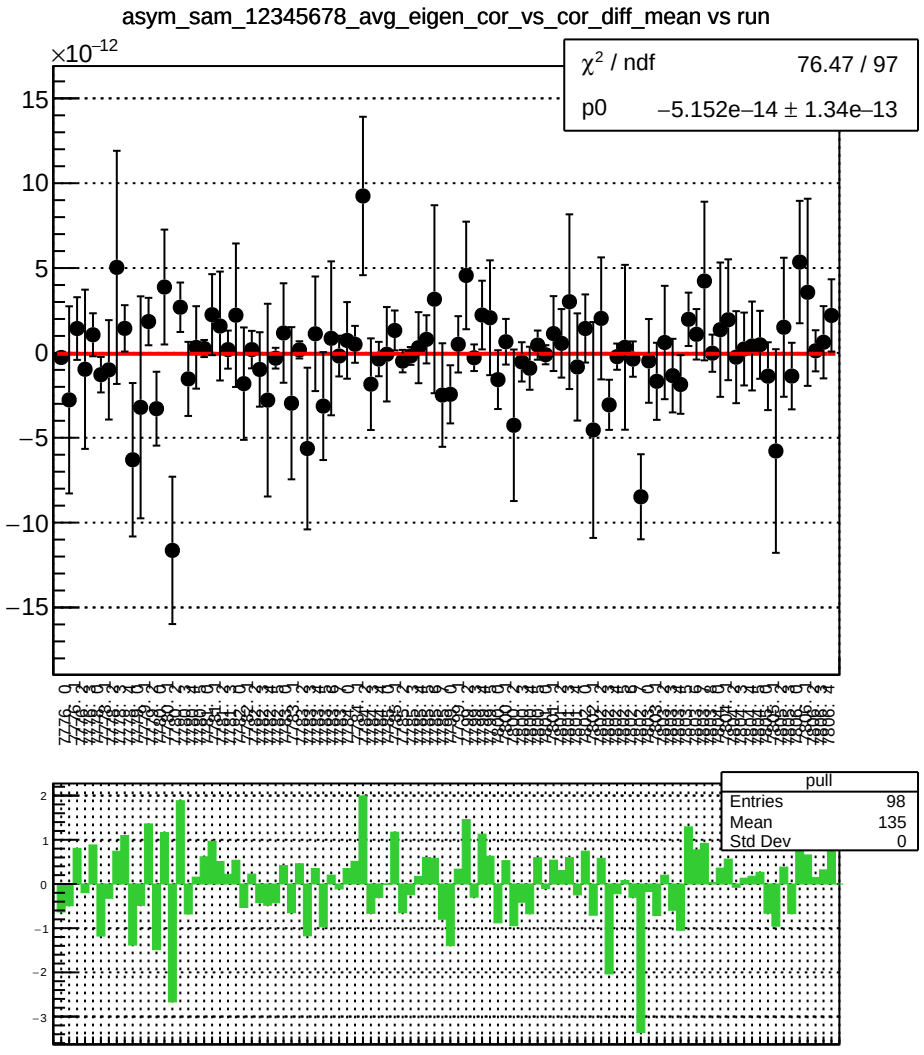

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.99 / 97
p0 0.04501 ± 0.05357
pull
Entries 98
Mean −49.7
Std Dev 0
pull1D
Entries 98
Mean 0.02149
Std Dev 0.9527

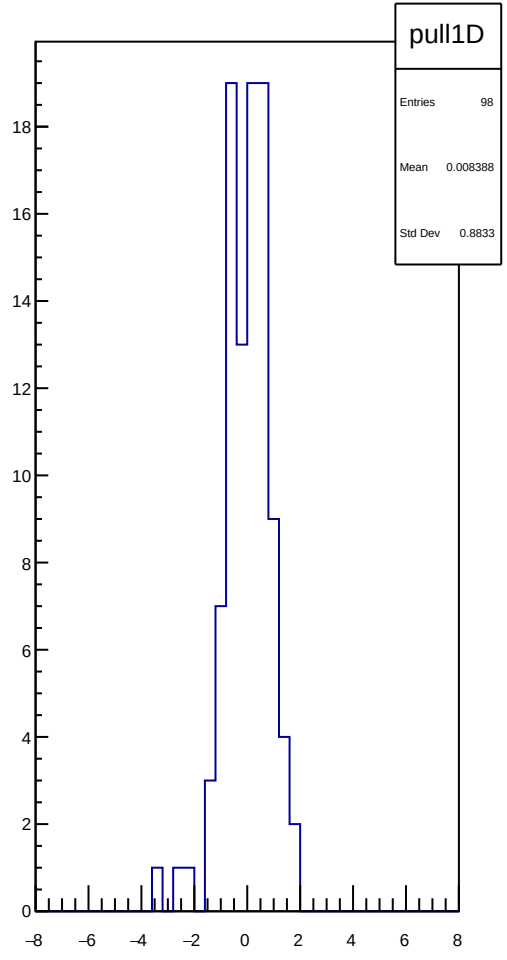

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.834e+04 / 97
p0 52.13 ± 0.03788
160
140
120
100
80
60
40

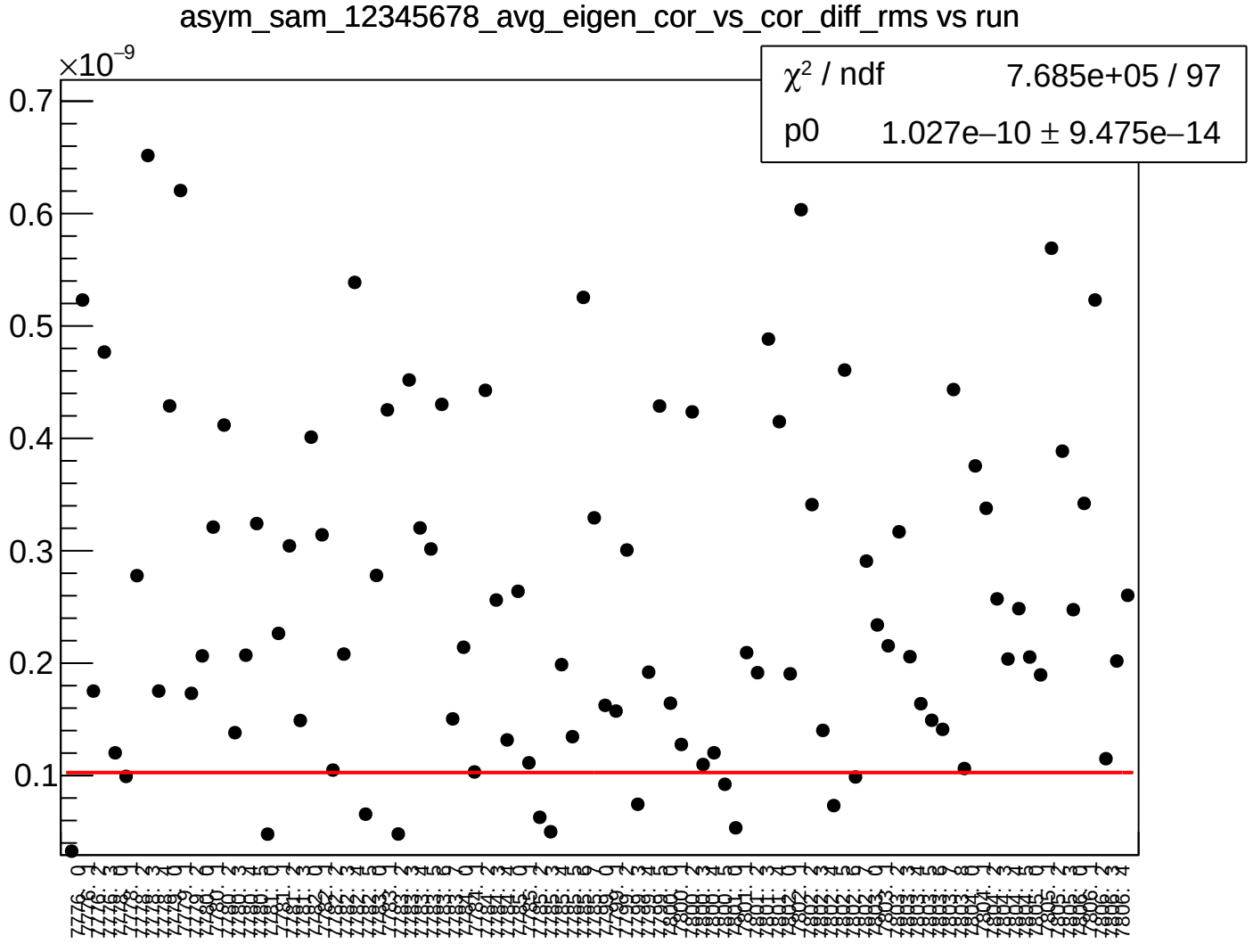

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.99 / 97
p0 0.04501 ± 0.05357
pull
Entries 98
Mean −49.7
Std Dev 0

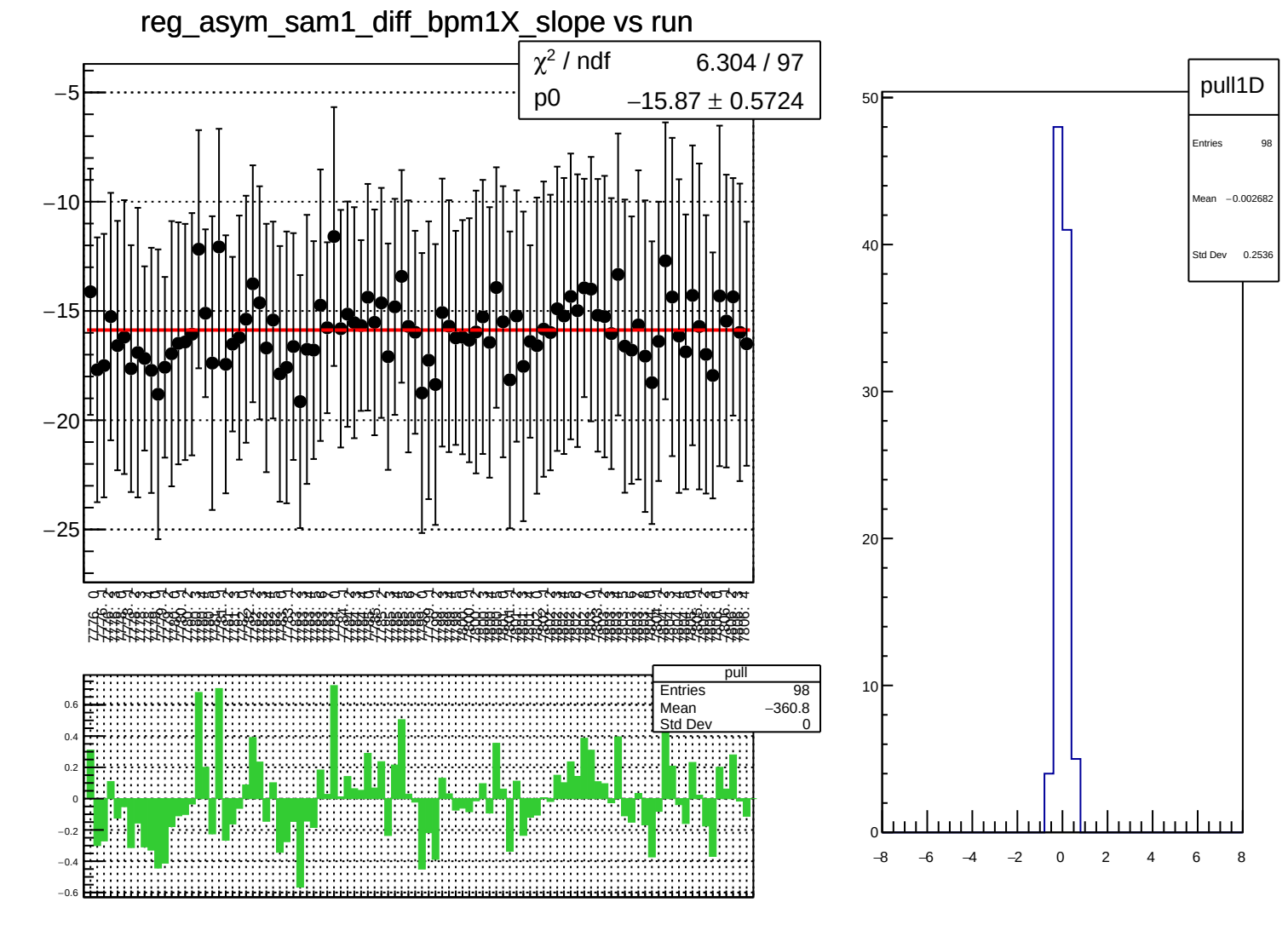

pull1D
Entries 98
Mean 0.02149
Std Dev 0.9527

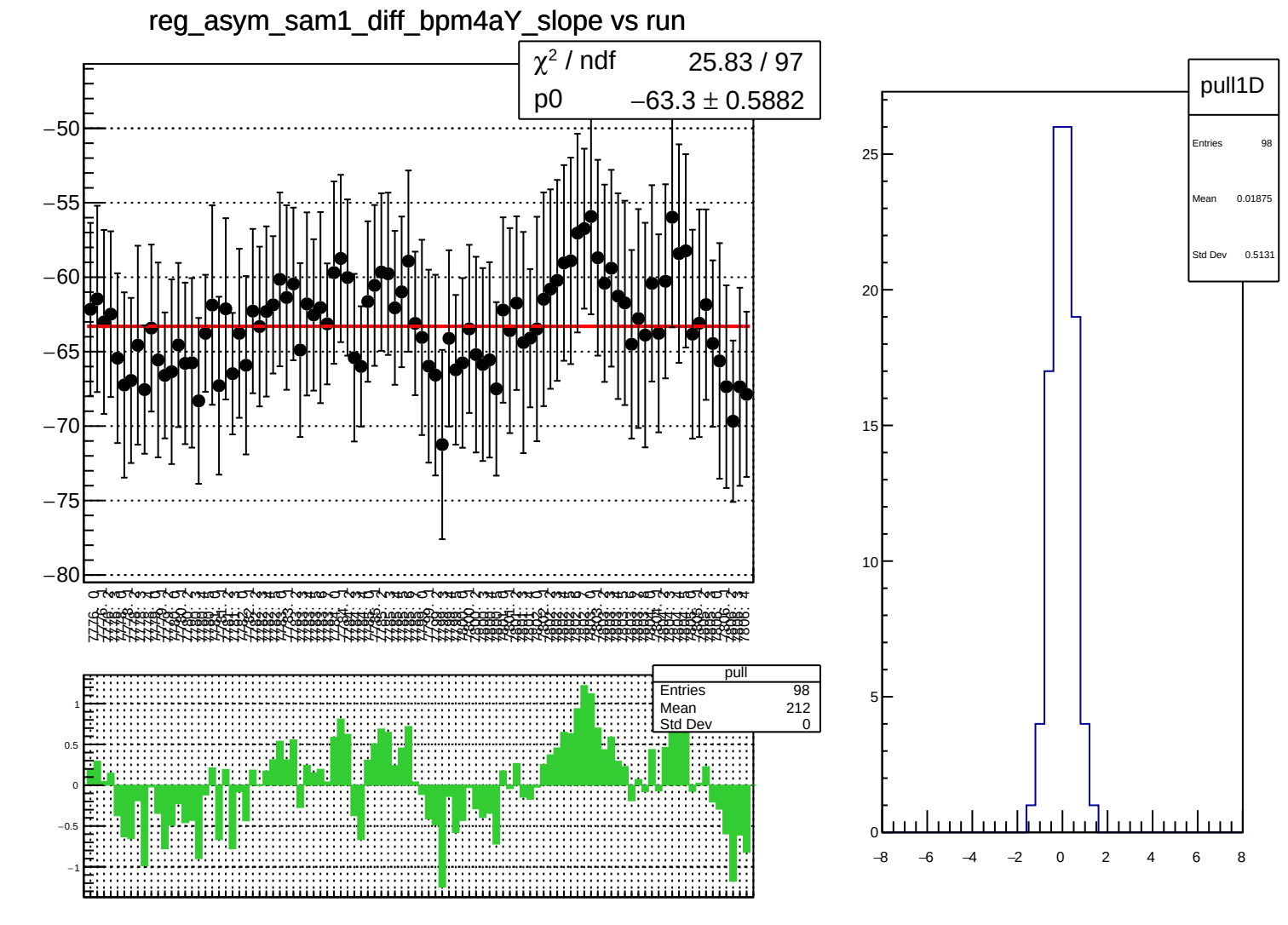

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.834e+04 / 97
p0 52.13 ± 0.03788
160
140
120
100
80
60
40

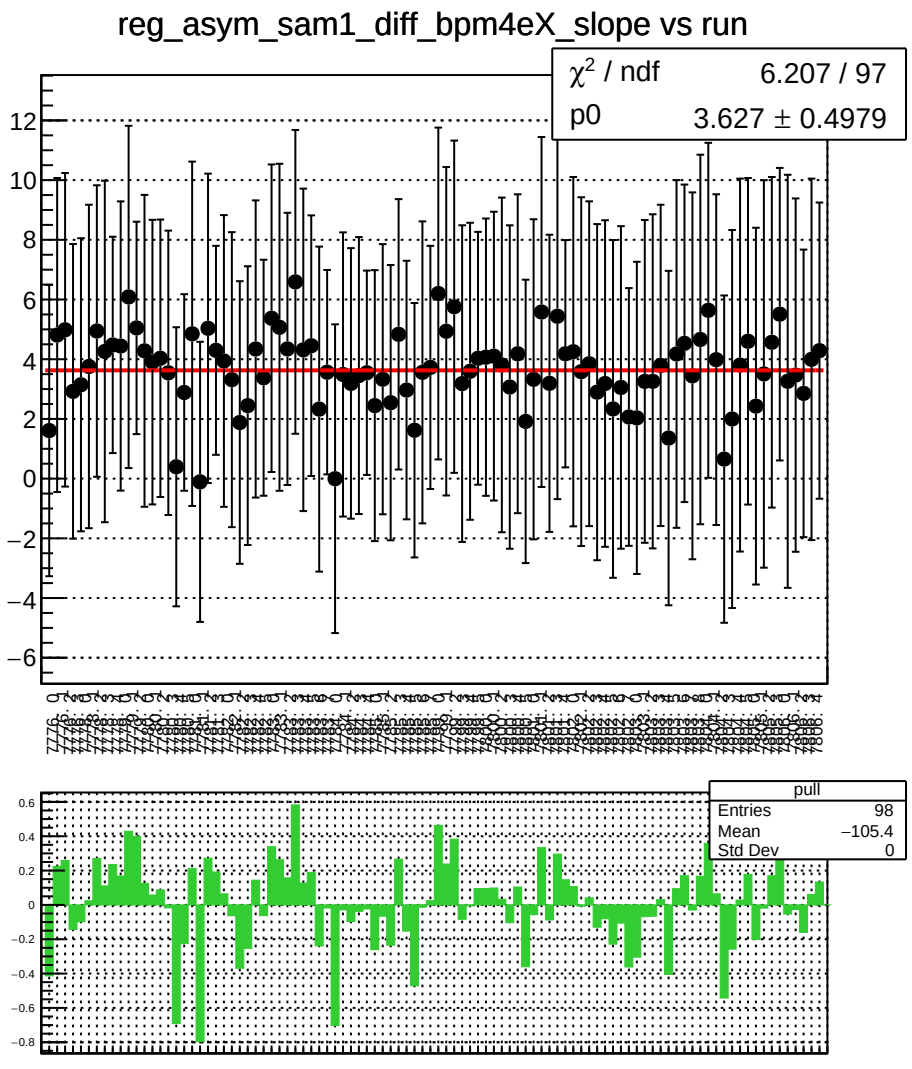

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.47 / 97
p0 −5.152e−14 ± 1.34e−13
pull
Entries 98
Mean 135
Std Dev 0

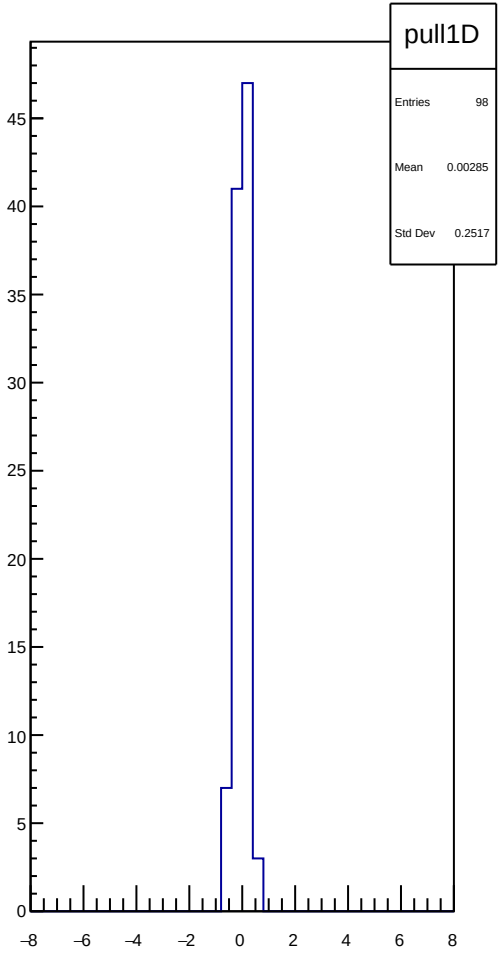

pull1D
Entries 98
Mean 0.008388
Std Dev 0.8833

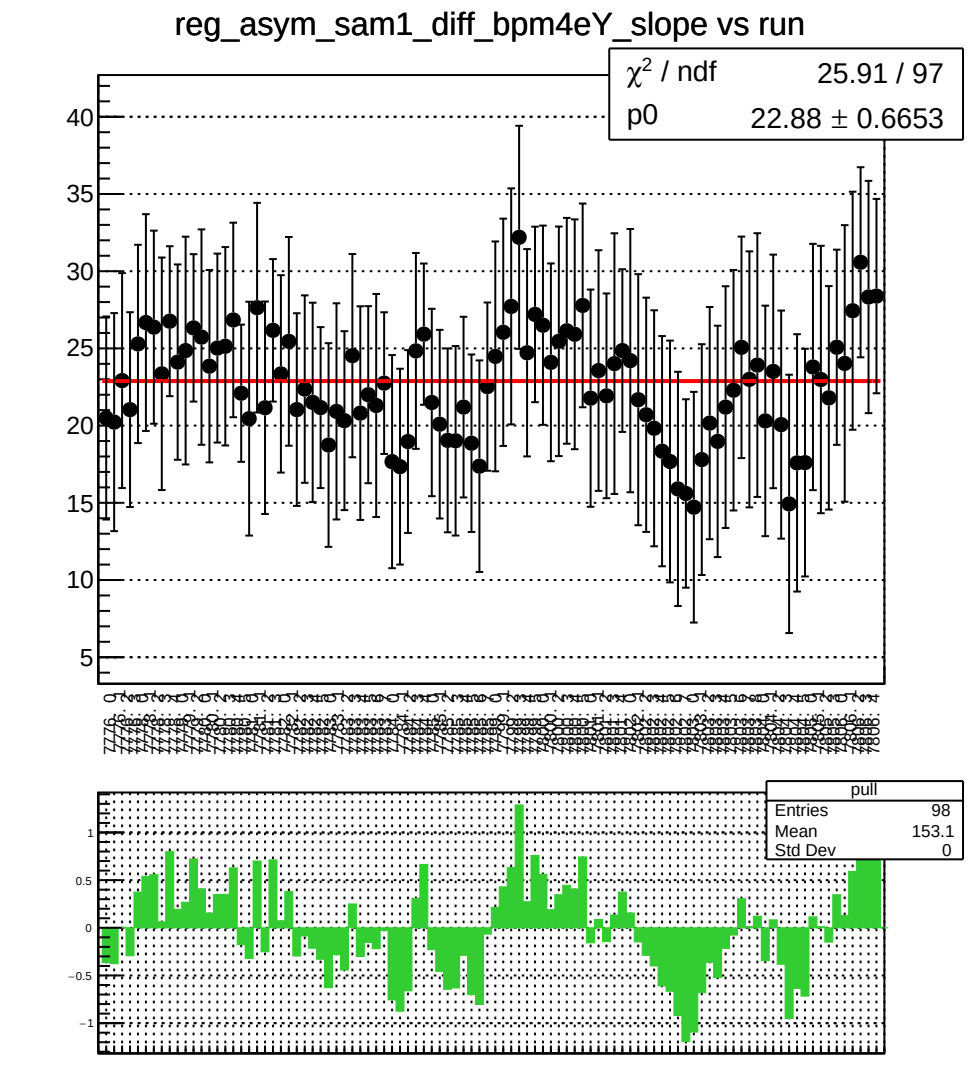

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.685e+05 / 97
p0 1.027e−10 ± 9.475e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

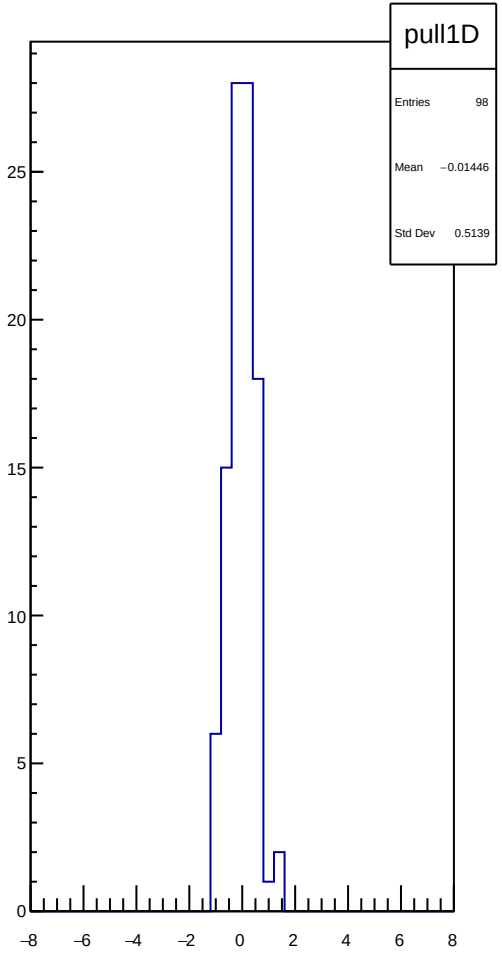

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 6.304 / 97
p0 −15.87 ± 0.5724
pull
Entries 98
Mean −360.8
Std Dev 0
pull1D
Entries 98
Mean −0.002682
Std Dev 0.2536

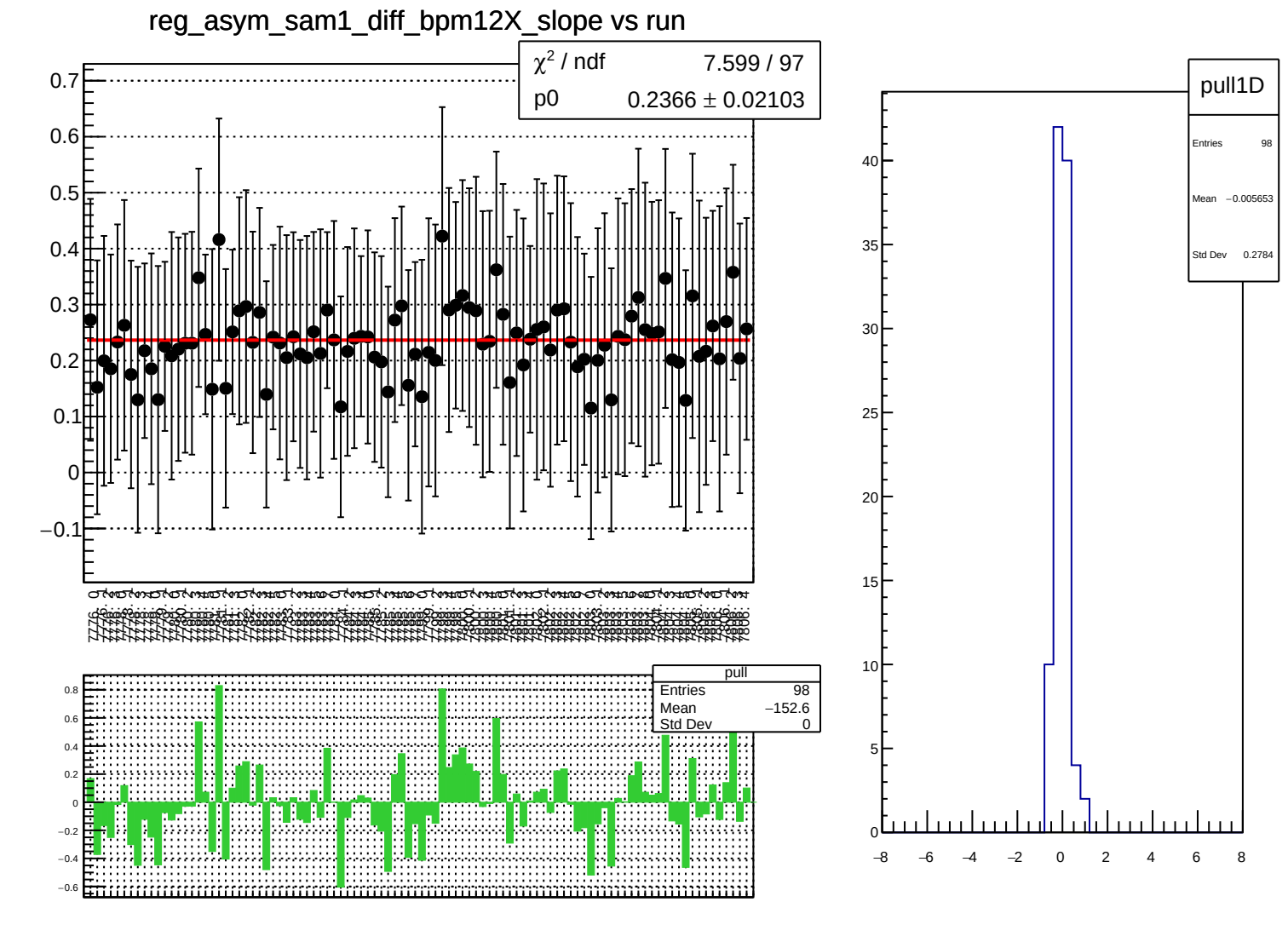

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 25.83 / 97
p0 −63.3 ± 0.5882
pull
Entries 98
Mean 212
Std Dev 0
pull1D
Entries 98
Mean 0.01875
Std Dev 0.5131

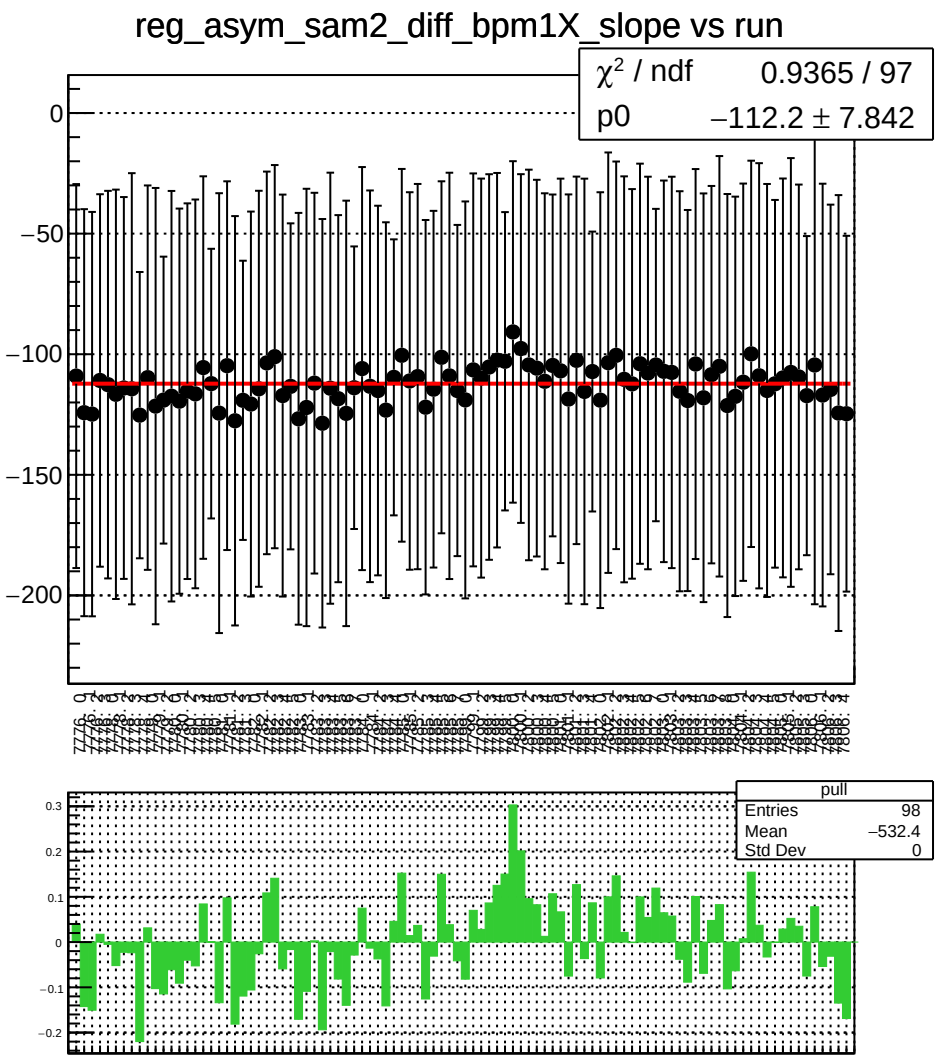

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 6.207 / 97
p0 3.627 ± 0.4979
pull
Entries 98
Mean −105.4
Std Dev 0

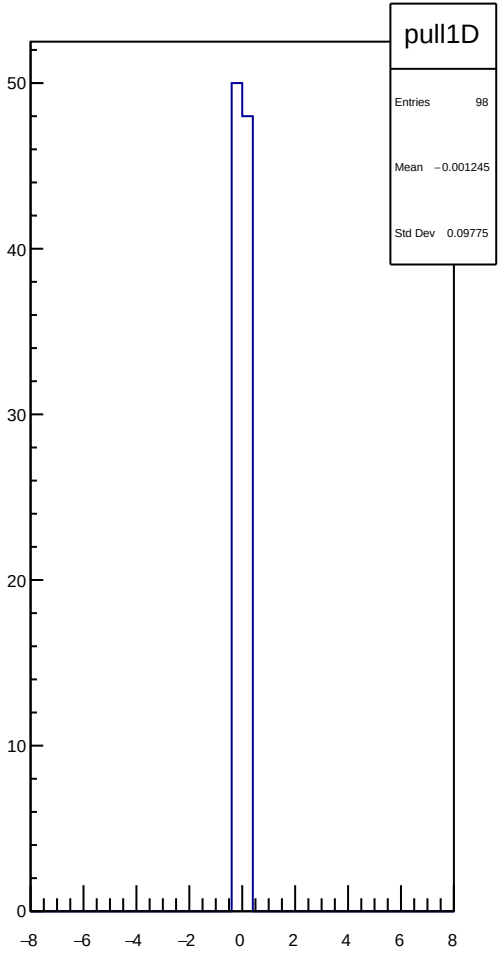

pull1D
Entries 98
Mean 0.00285
Std Dev 0.2517

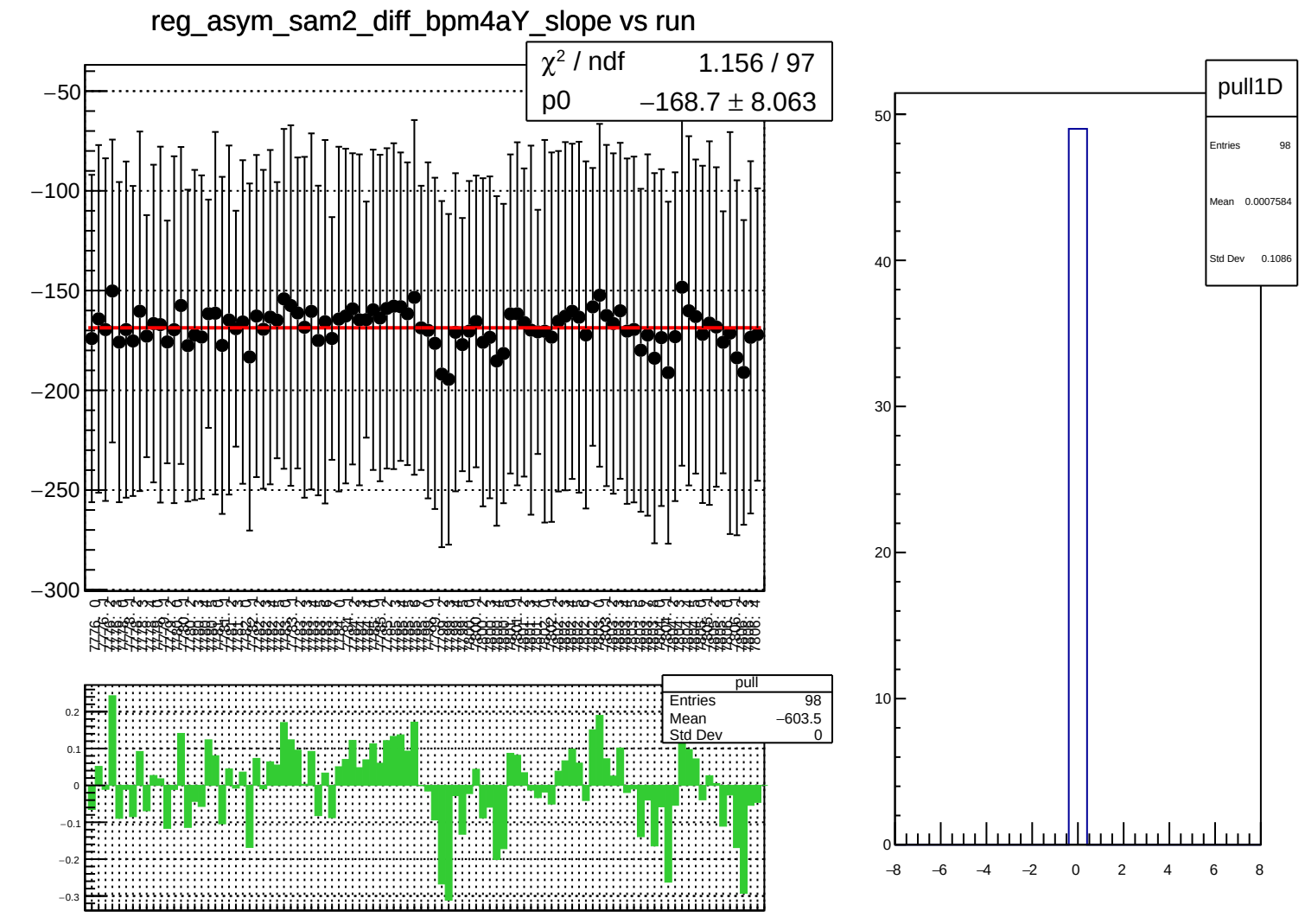

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 25.91 / 97
p0 22.88 ± 0.6653
pull
Entries 98
Mean 153.1
Std Dev 0

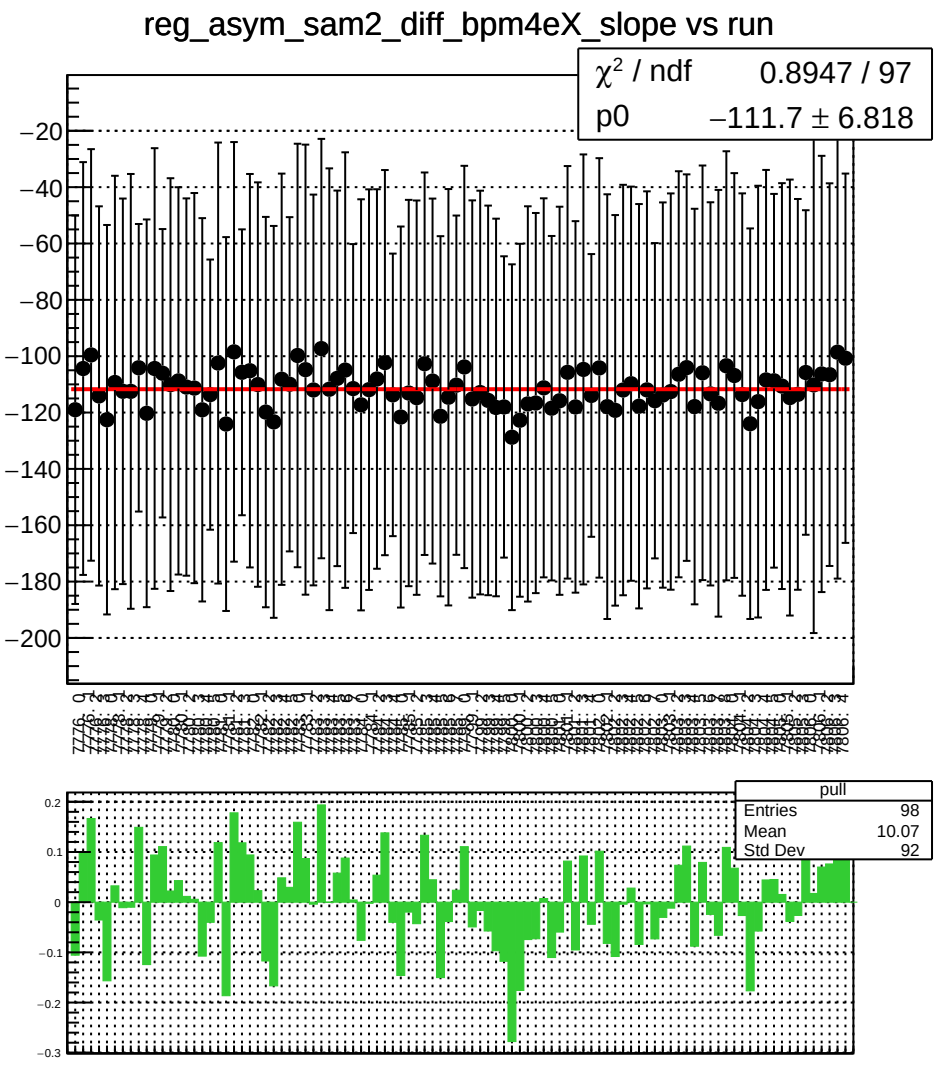

pull1D
Entries 98
Mean −0.01446
Std Dev 0.5139

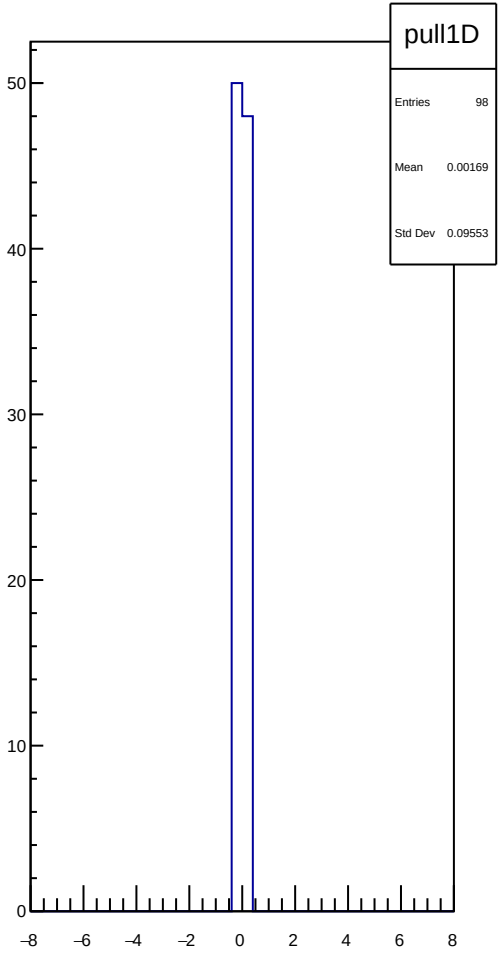

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 7.599 / 97
p0 0.2366 ± 0.02103
pull
Entries 98
Mean −152.6
Std Dev 0
pull1D
Entries 98
Mean −0.005653
Std Dev 0.2784

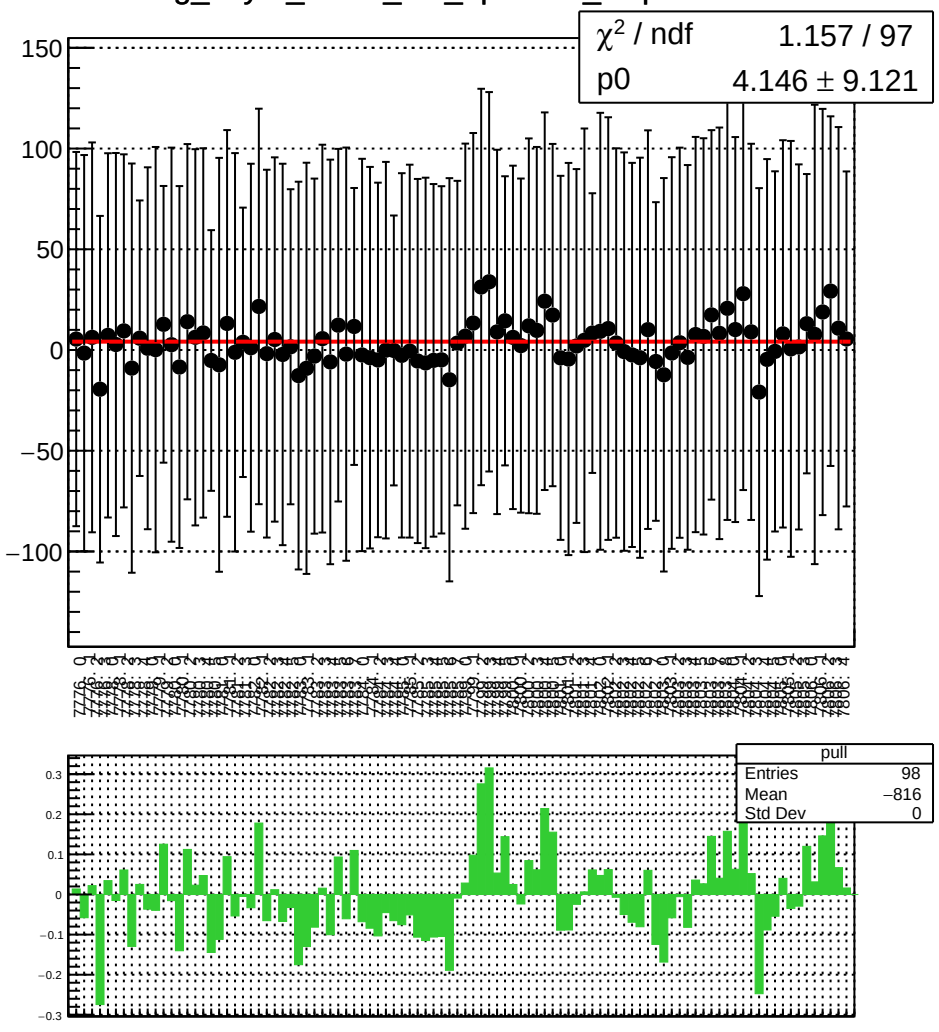

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.9365 / 97
p0 −112.2 ± 7.842
pull
Entries 98
Mean −532.4
Std Dev 0

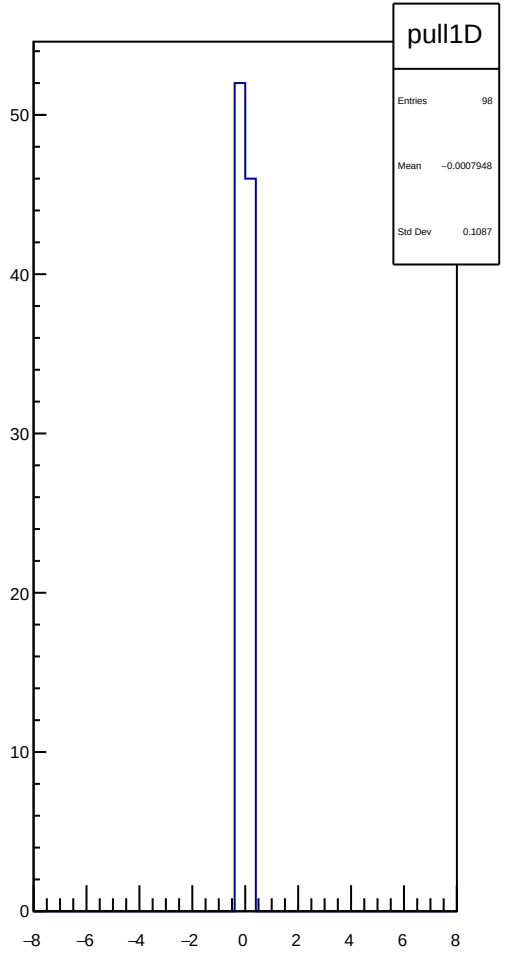

pull1D
Entries 98
Mean −0.001245
Std Dev 0.09775

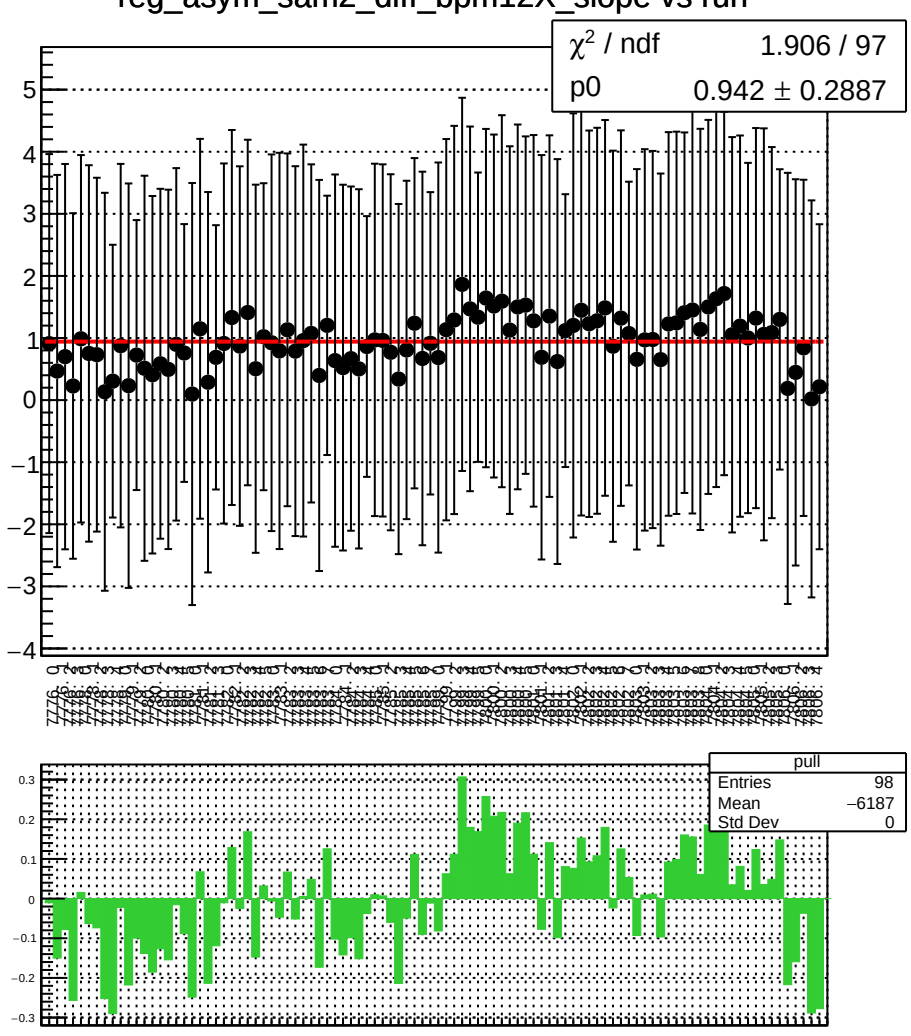

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.156 / 97
p0 −168.7 ± 8.063
pull
Entries 98
Mean −603.5
Std Dev 0
pull1D
Entries 98
Mean 0.0007584
Std Dev 0.1086

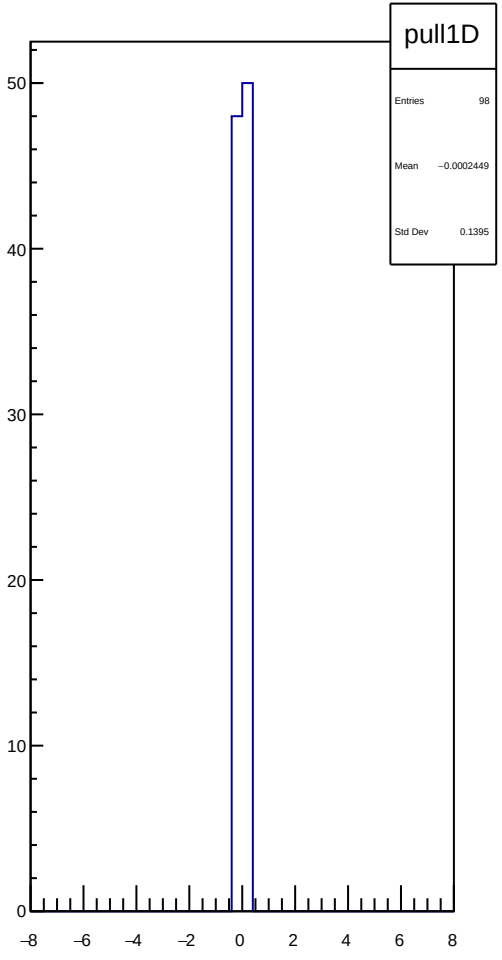

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.8947 / 97
p0 −111.7 ± 6.818
pull
Entries 98
Mean 10.07
Std Dev 92

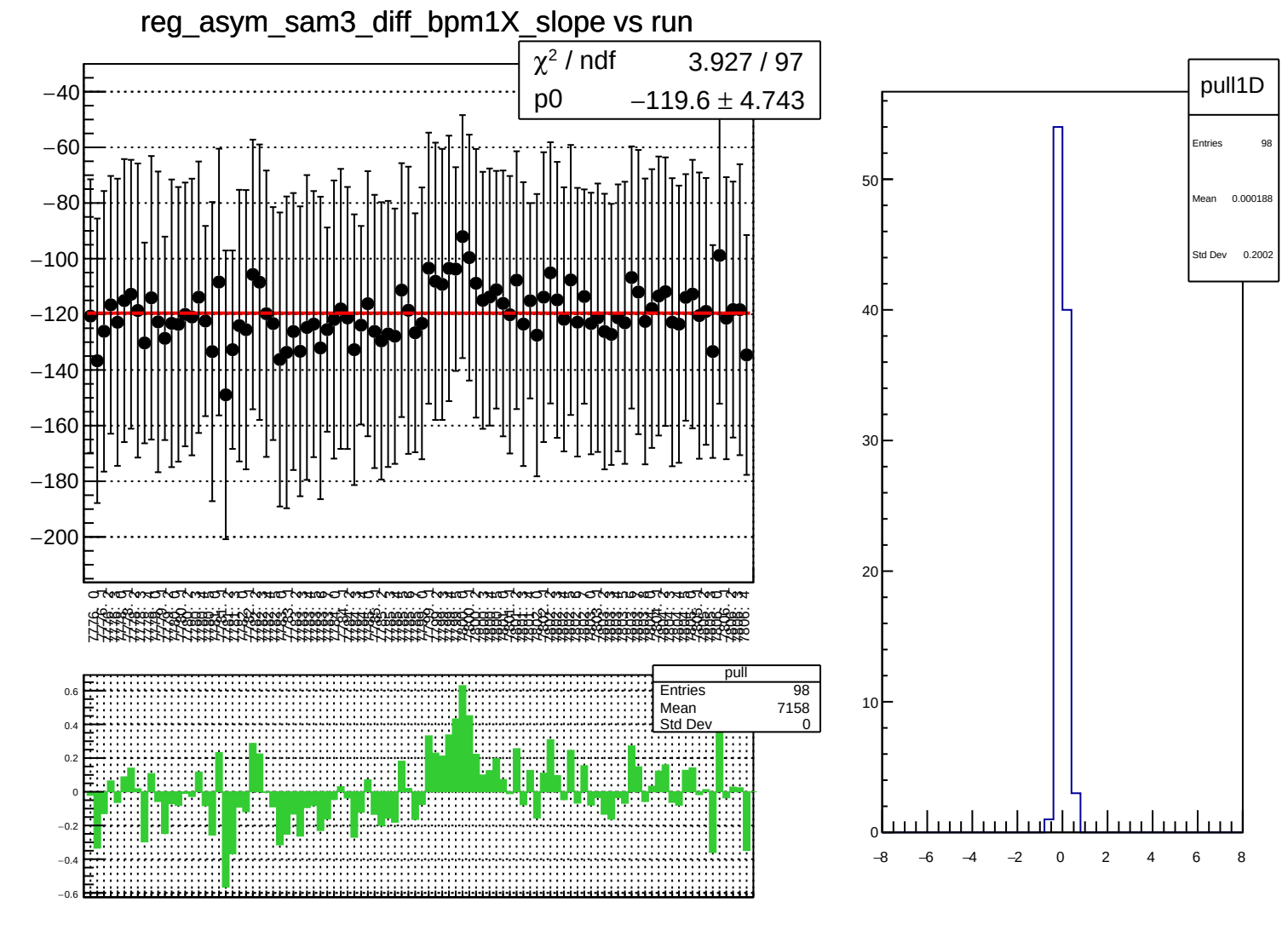

pull1D
Entries 98
Mean 0.00169
Std Dev 0.09553

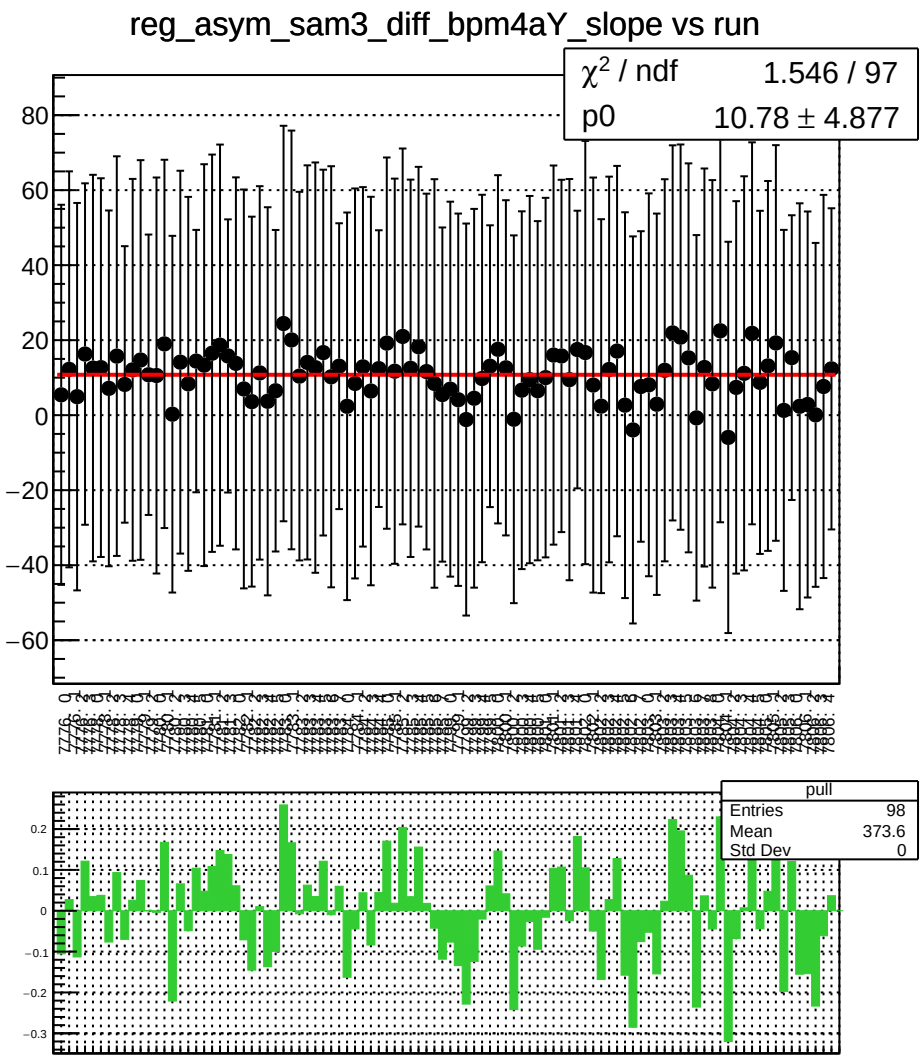

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.157 / 97
p0 4.146 ± 9.121
150
100
50
0
−50
−100
pull
Entries 98
Mean −816
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

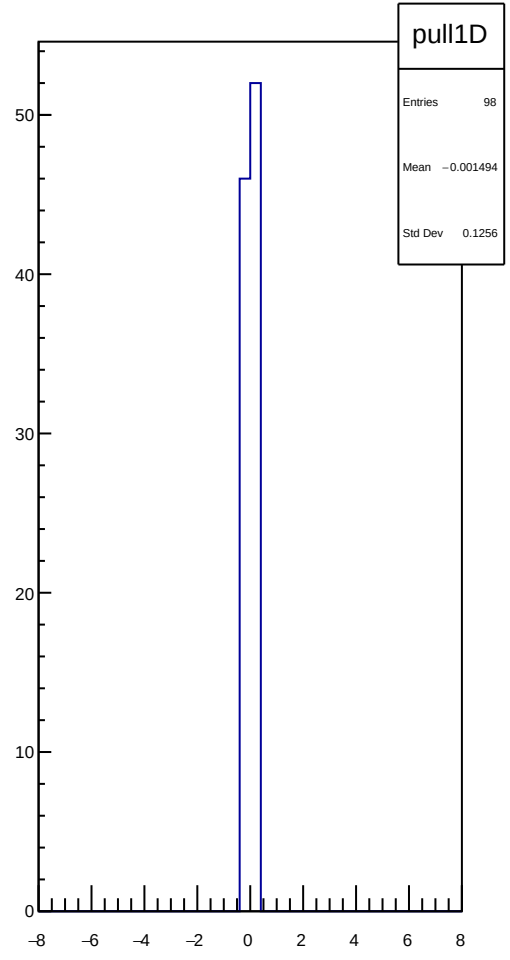

pull1D
Entries 98
Mean −0.0007948
Std Dev 0.1087
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

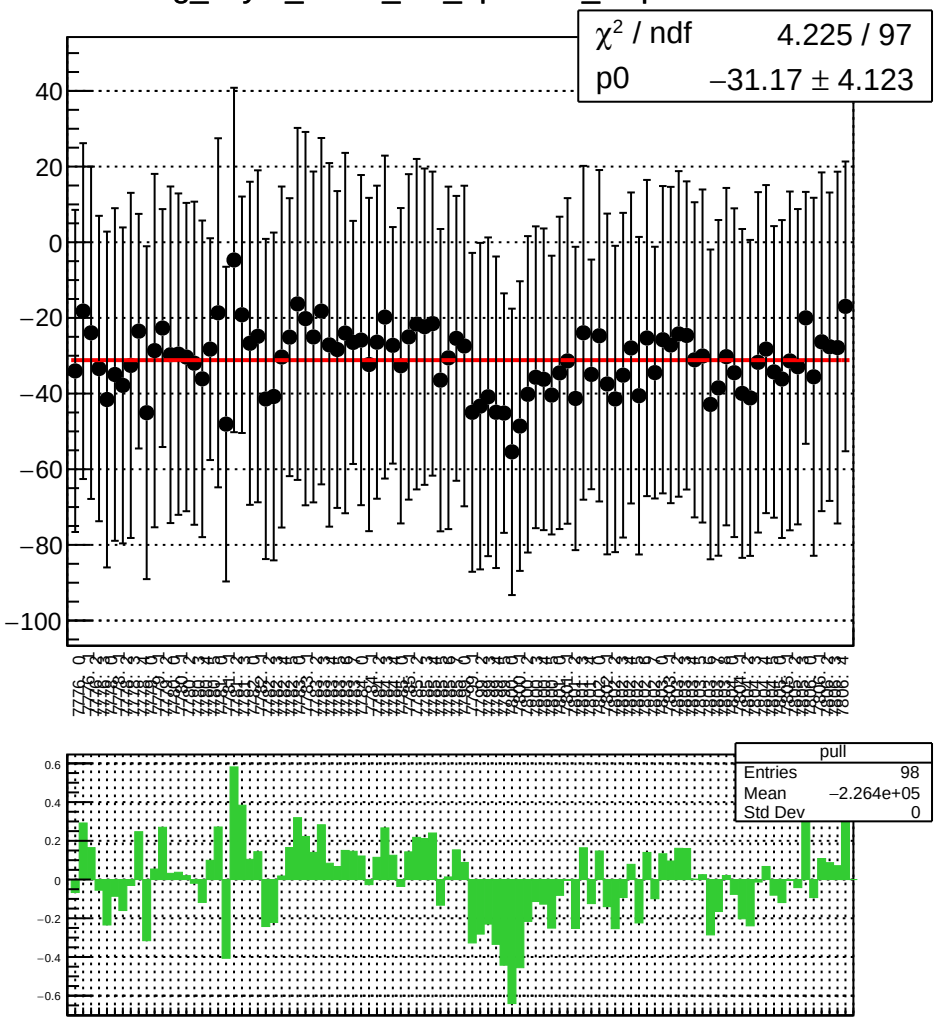

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.906 / 97
p0 0.942 ± 0.2887
pull
Entries 98
Mean −6187
Std Dev 0

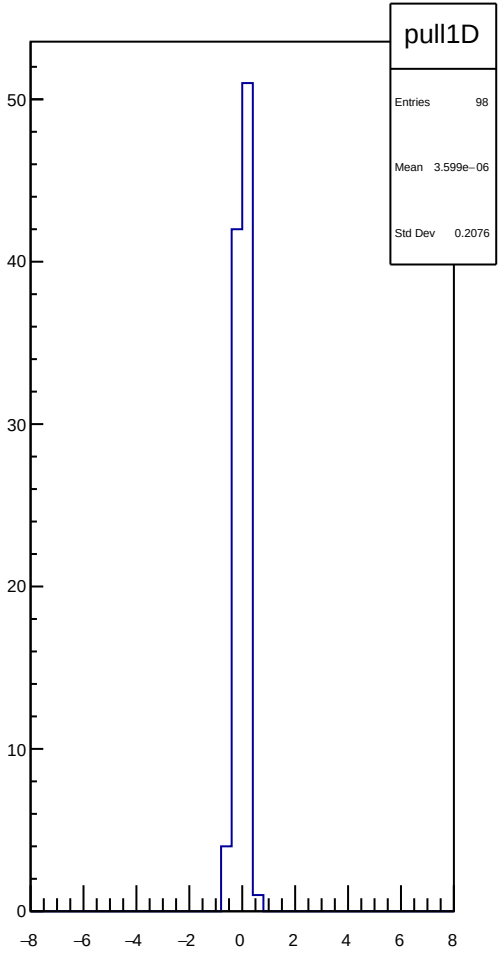

pull1D
Entries 98
Mean −0.0002449
Std Dev 0.1395

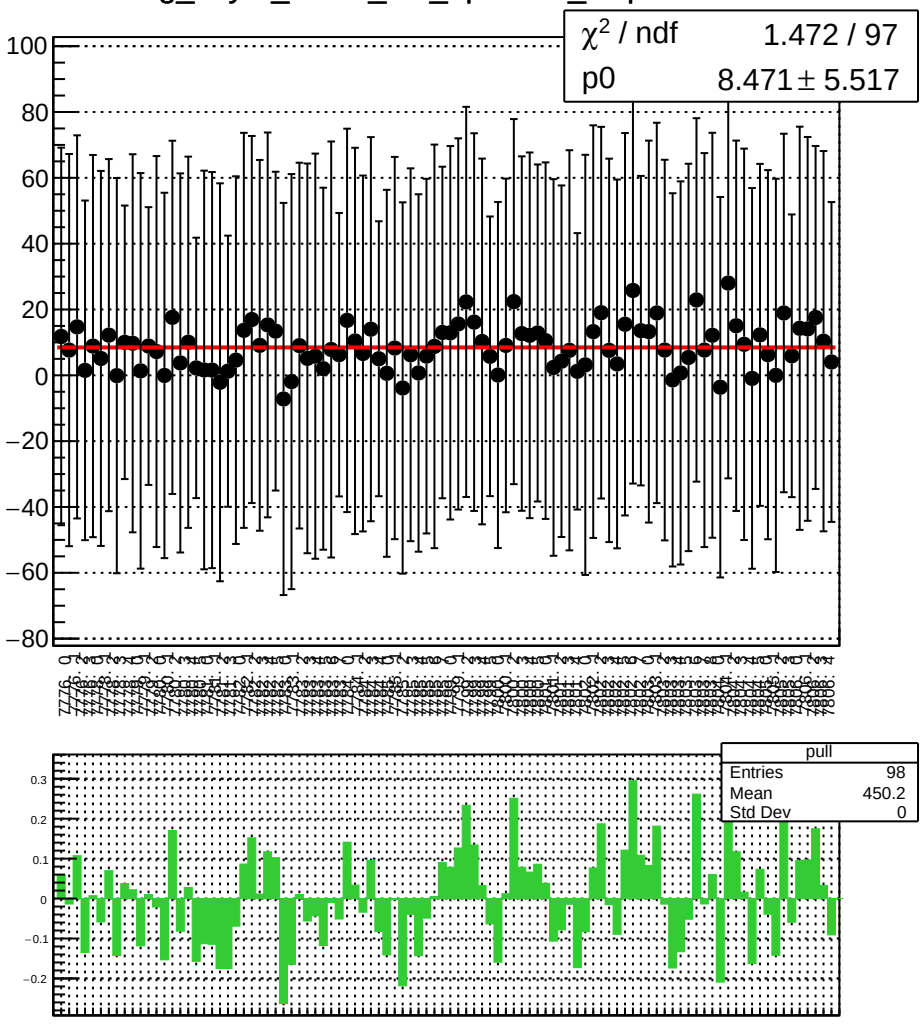

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 3.927 / 97
p0 −119.6 ± 4.743
pull
Entries 98
Mean 7158
Std Dev 0
pull1D
Entries 98
Mean 0.000188
Std Dev 0.2002

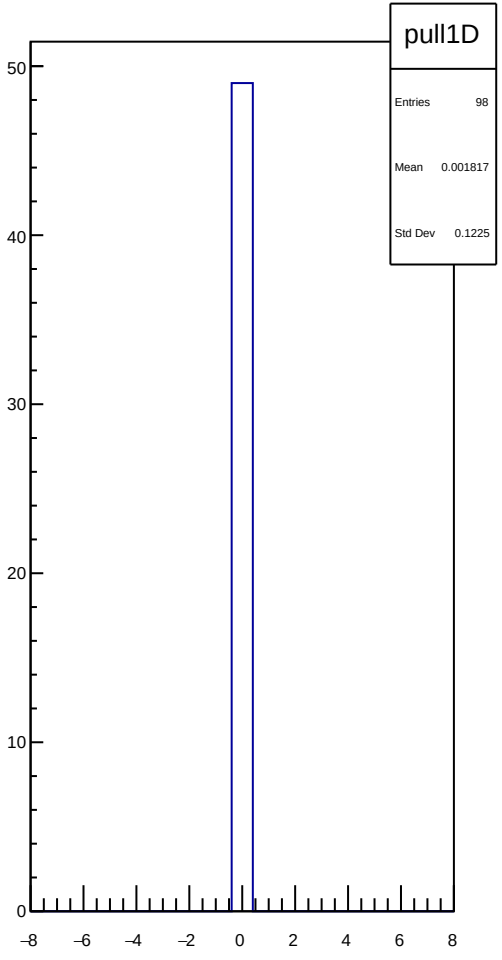

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.546 / 97
p0 10.78 ± 4.877
pull
Entries 98
Mean 373.6
Std Dev 0

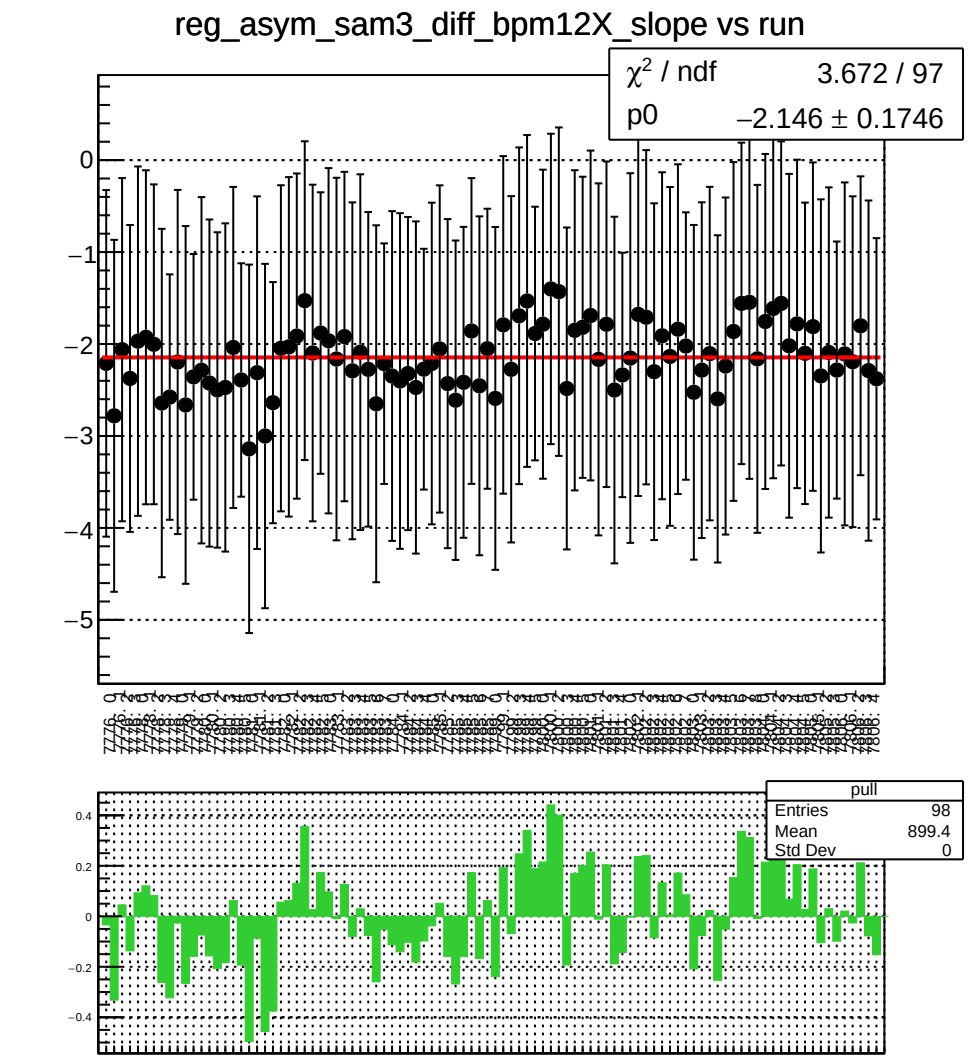

pull1D
Entries 98
Mean −0.001494
Std Dev 0.1256

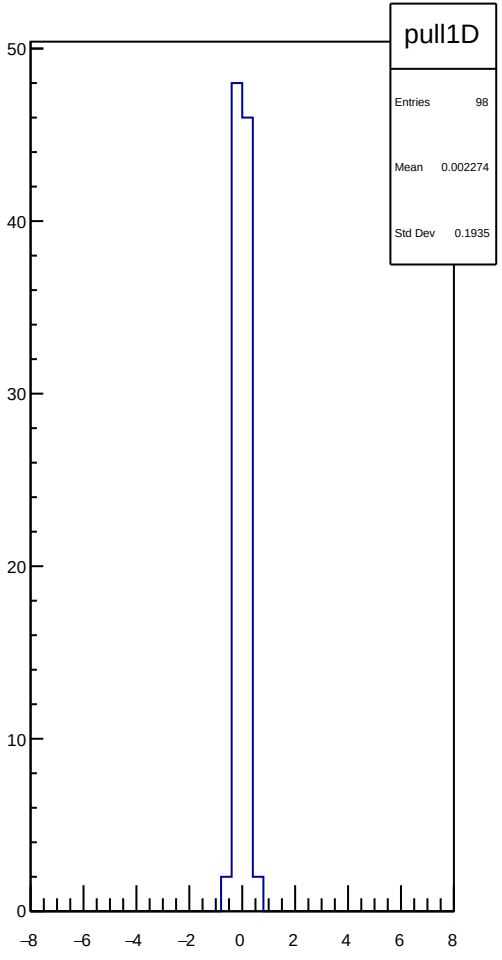

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 4.225 / 97
p0 −31.17 ± 4.123
pull
Entries 98
Mean −2.264e+05
Std Dev 0

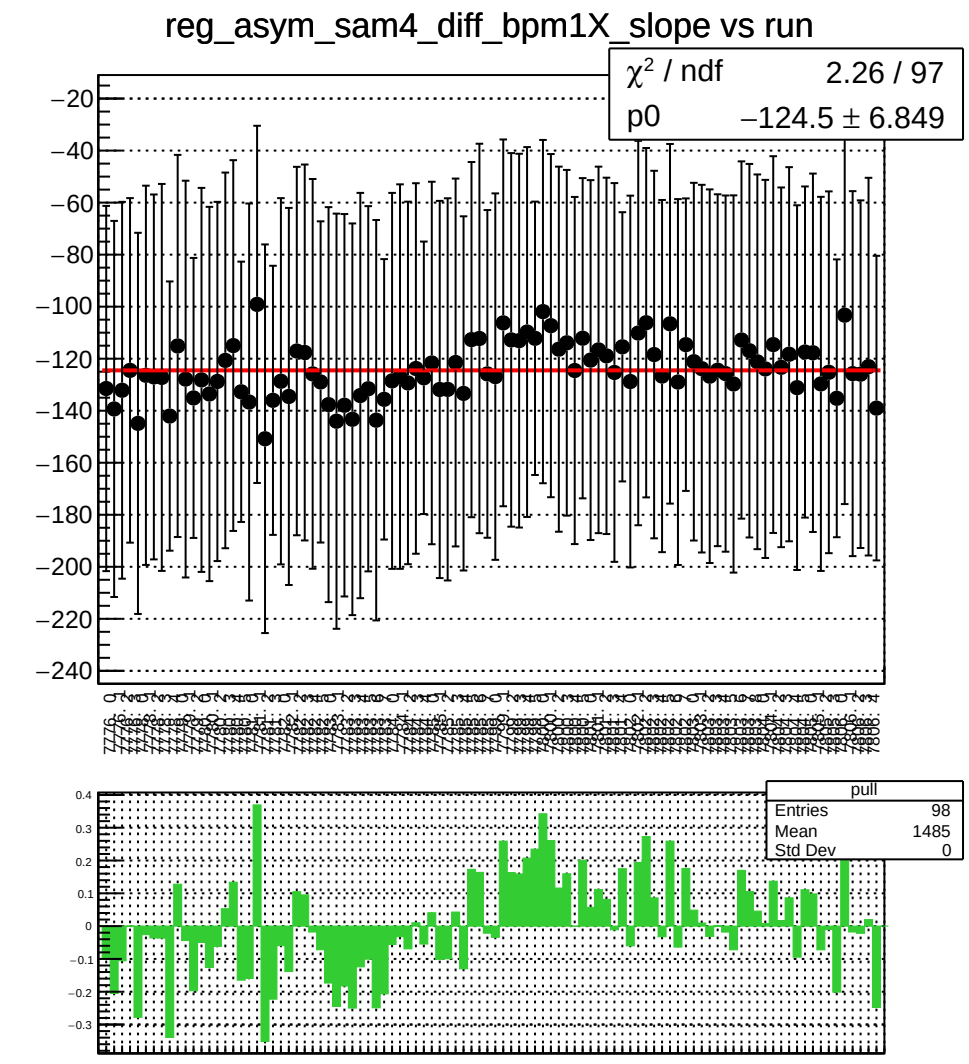

pull1D
Entries 98
Mean 3.599e−06
Std Dev 0.2076

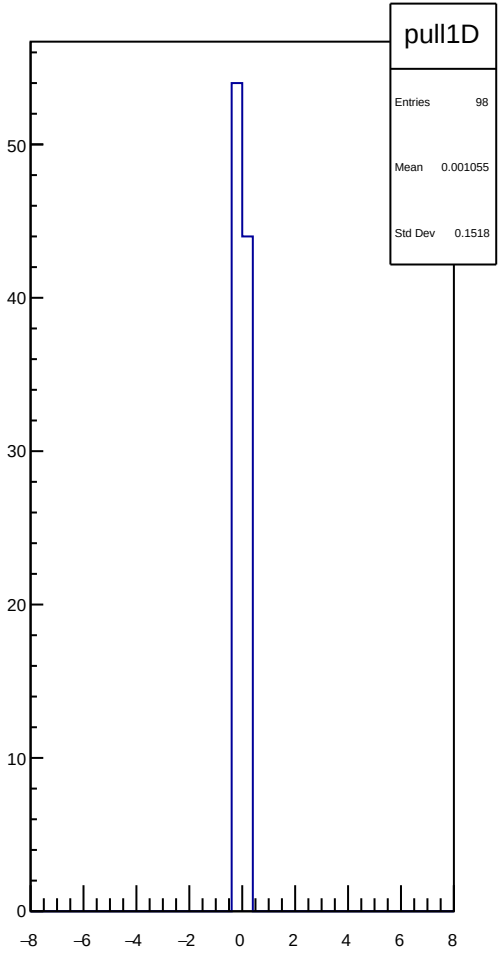

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.472 / 97
p0 8.471 ± 5.517
pull
Entries 98
Mean 450.2
Std Dev 0

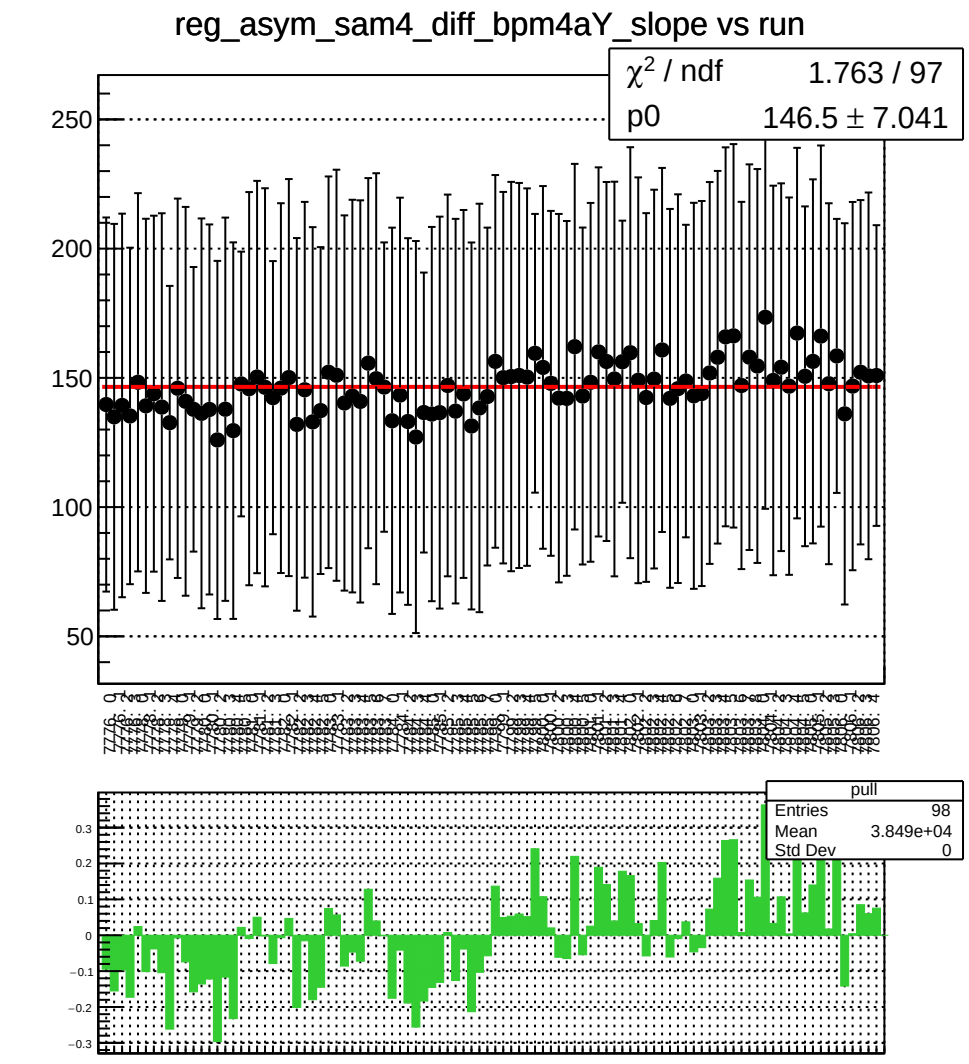

pull1D
Entries 98
Mean 0.001817
Std Dev 0.1225

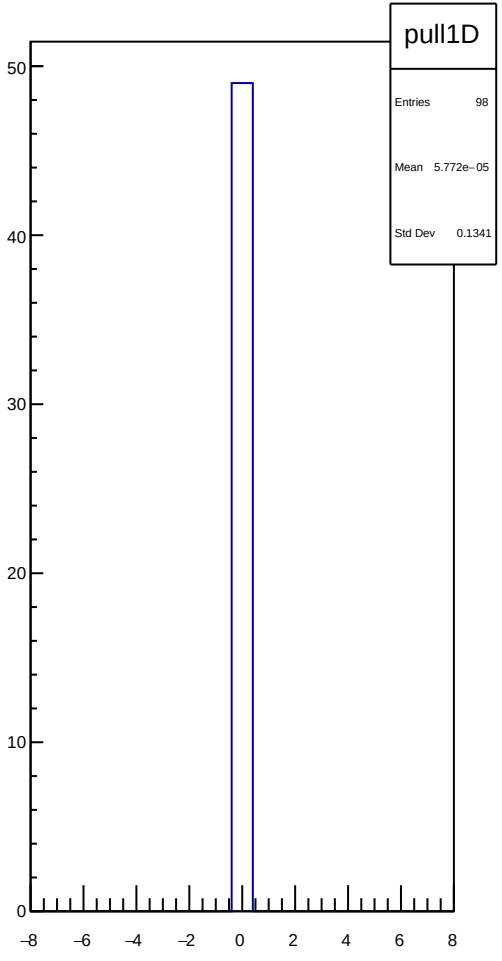

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 3.672 / 97
p0 −2.146 ± 0.1746
pull
Entries 98
Mean 899.4
Std Dev 0

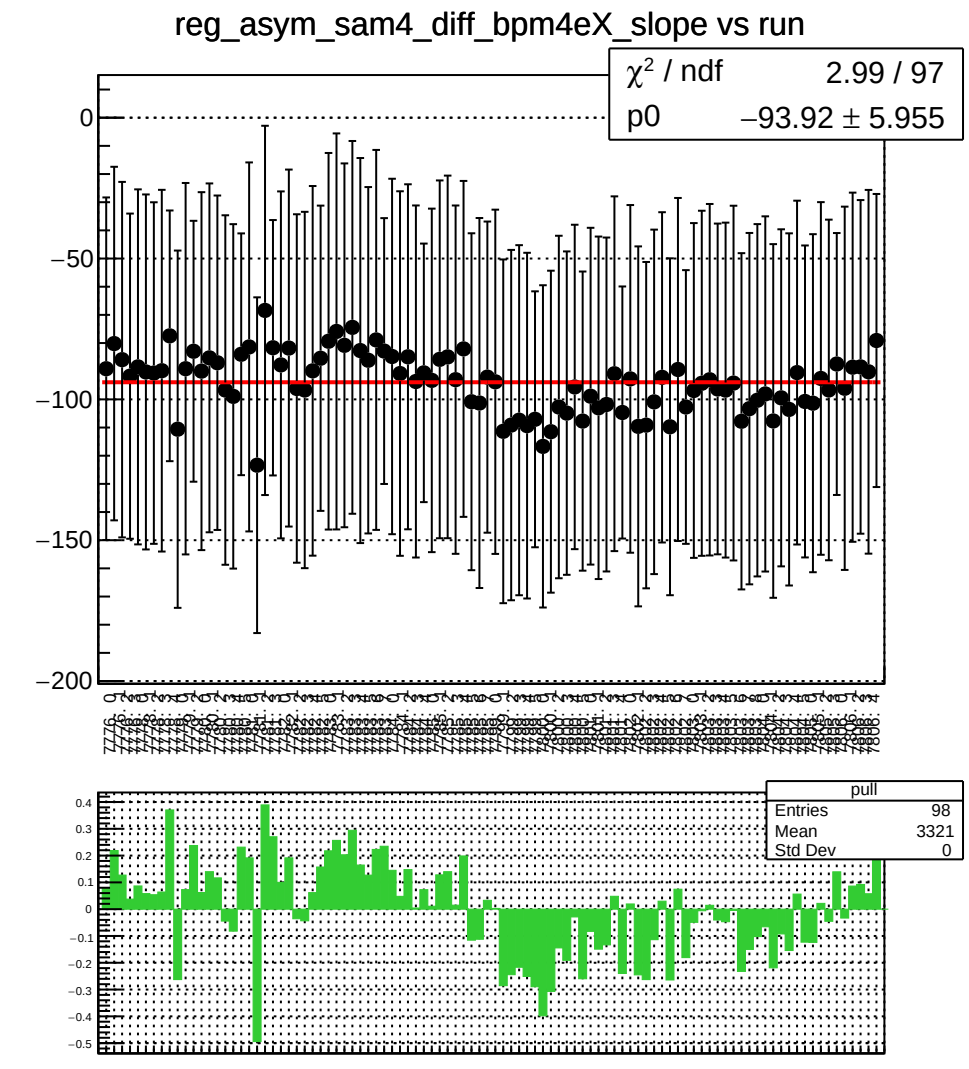

pull1D
Entries 98
Mean 0.002274
Std Dev 0.1935

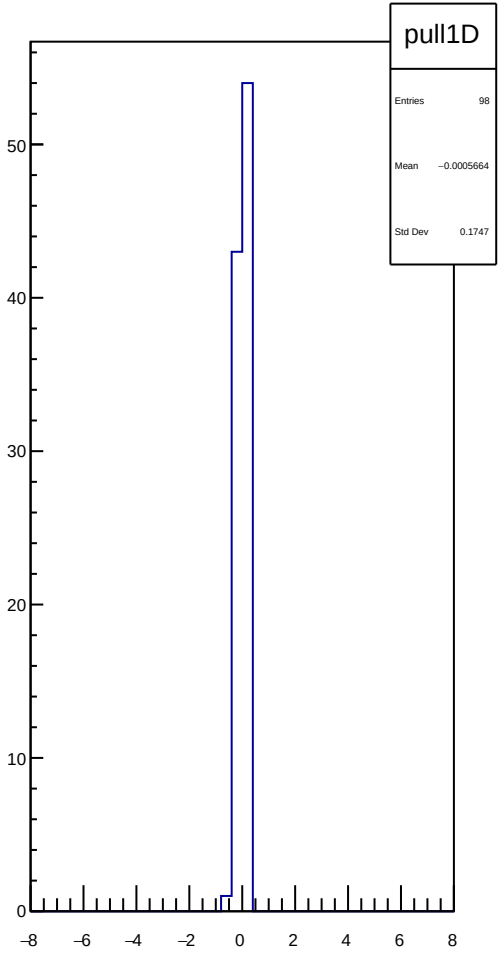

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 2.26 / 97
p0 −124.5 ± 6.849
pull
Entries 98
Mean 1485
Std Dev 0

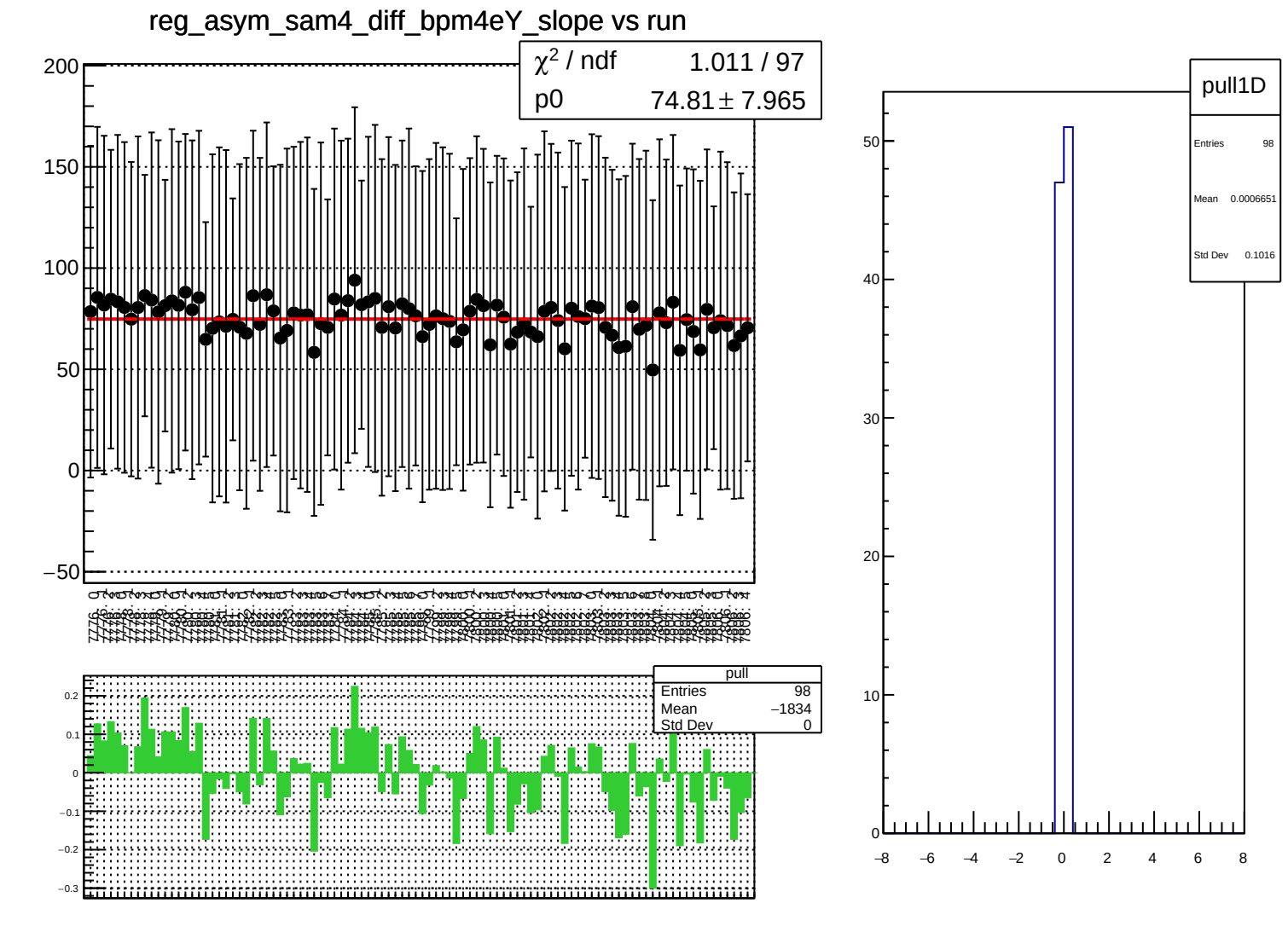

pull1D
Entries 98
Mean 0.001055
Std Dev 0.1518

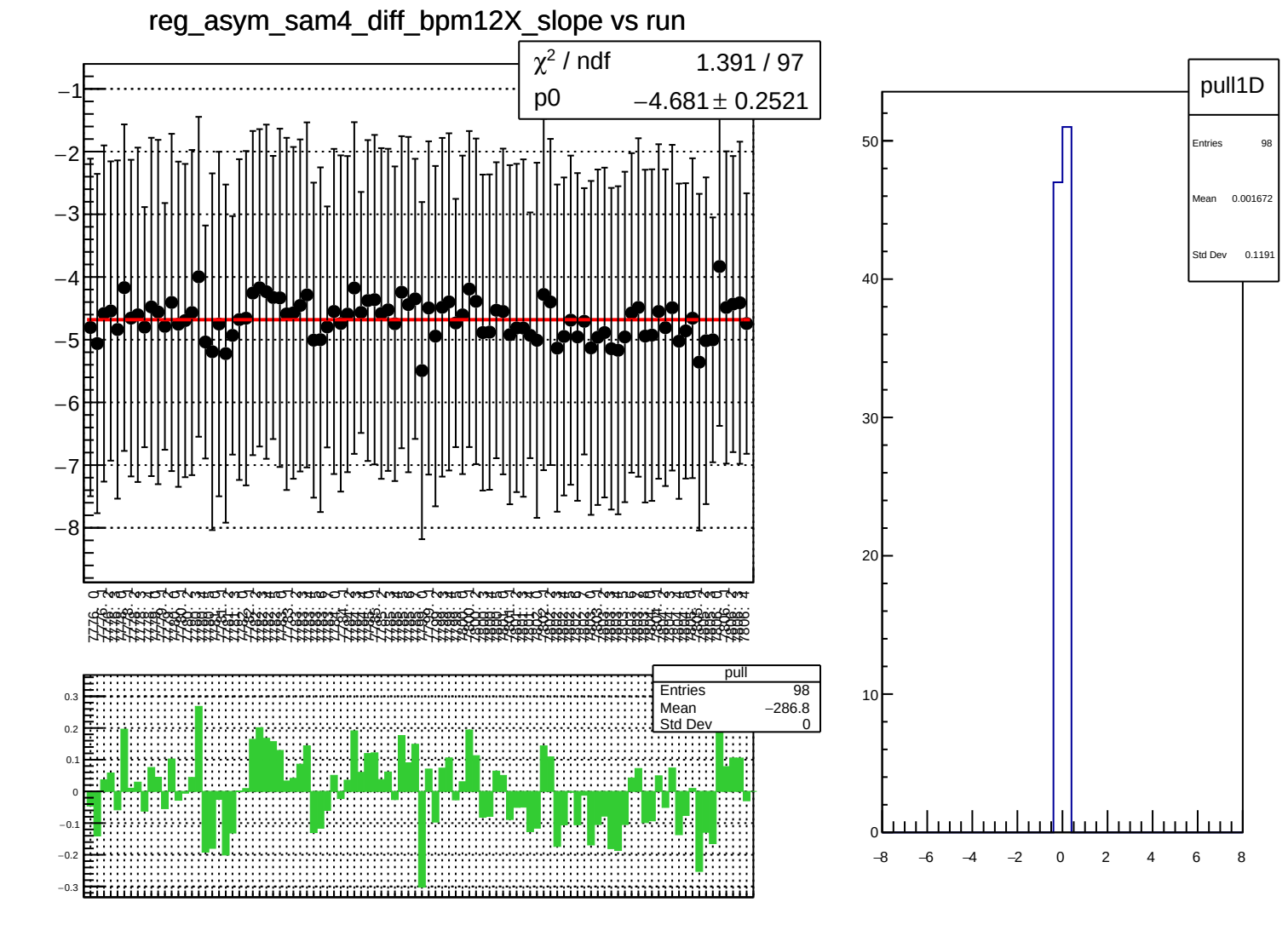

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.763 / 97
p0 146.5 ± 7.041
250
200
150
100
50
pull
Entries 98
Mean 3.849e+04
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

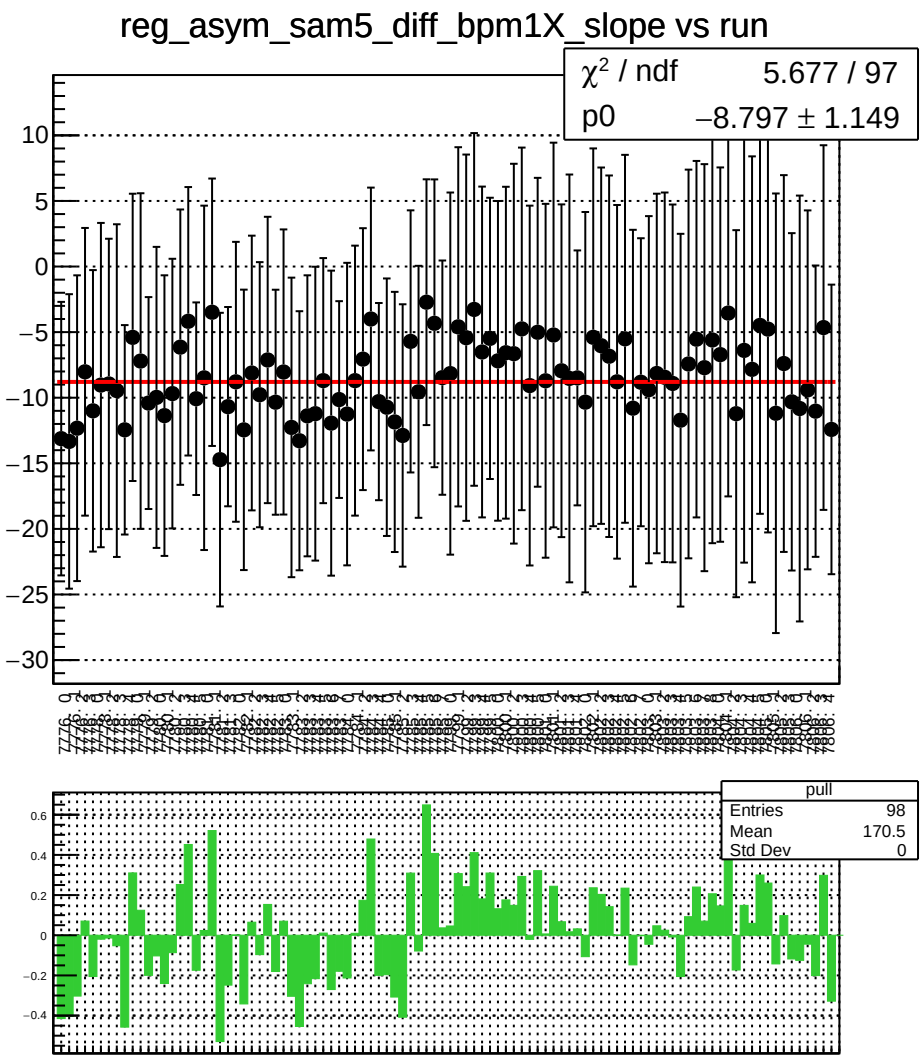

pull1D
Entries 98
Mean 5.772e−05
Std Dev 0.1341
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

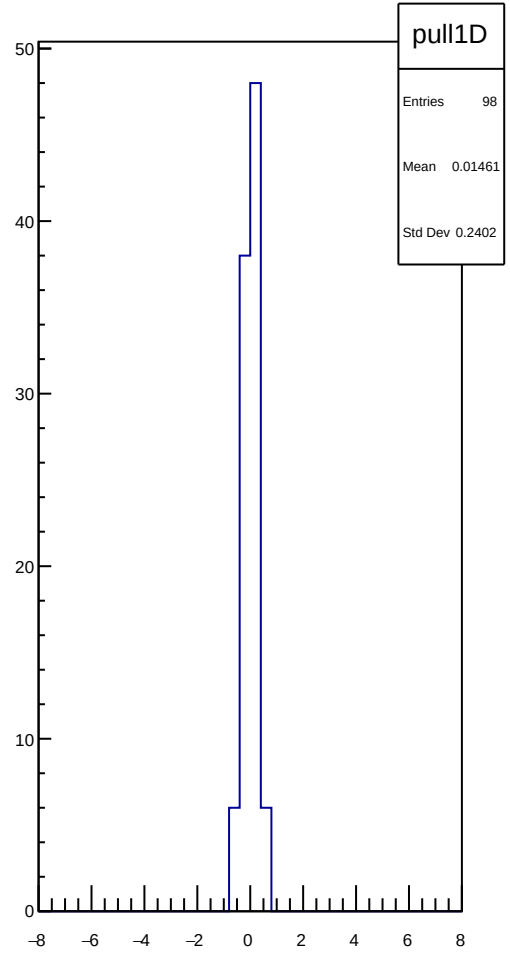

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 2.99 / 97
p0 −93.92 ± 5.955
0
−50
−100
−150
−200
pull
Entries 98
Mean 3321
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

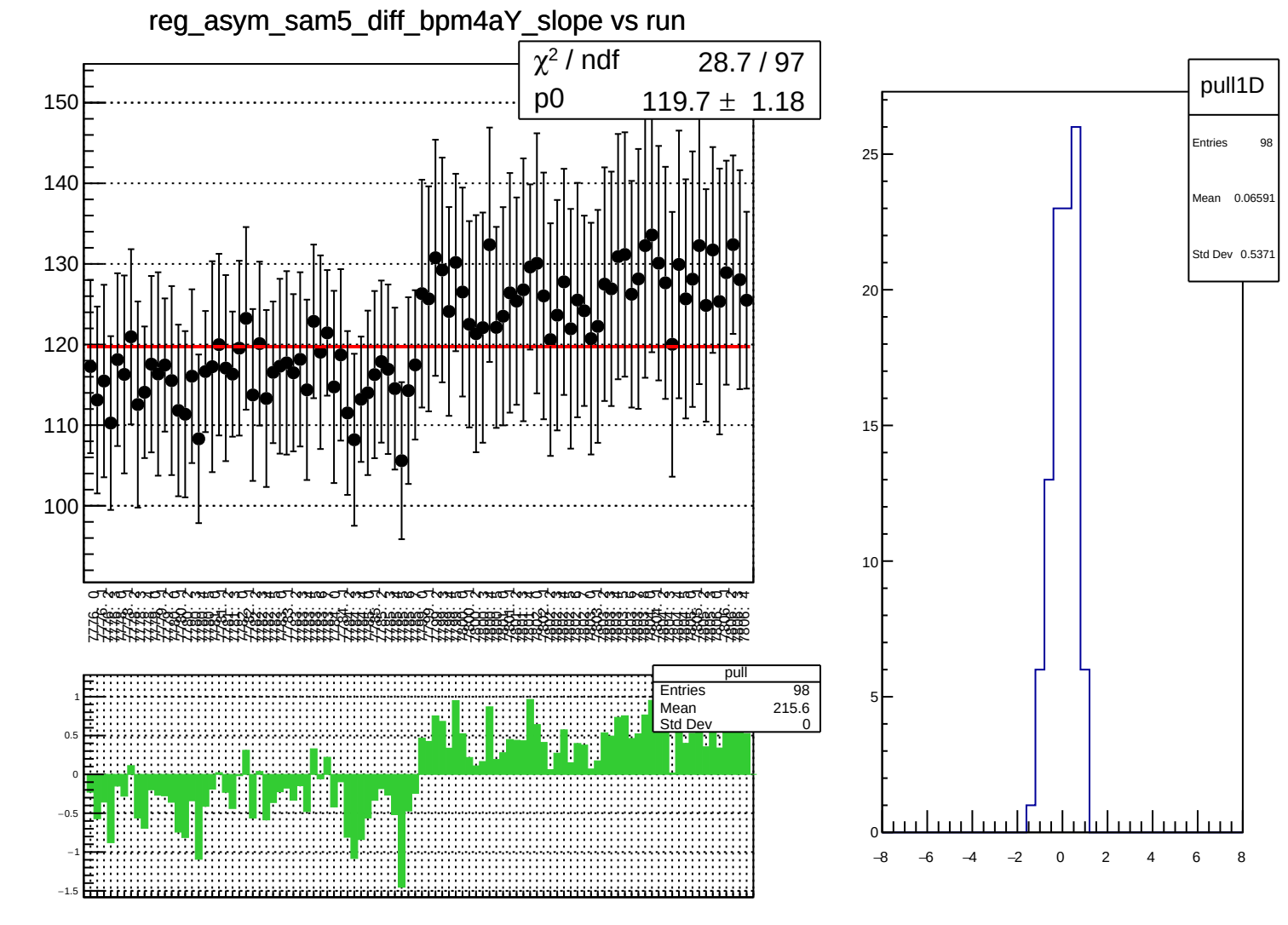

pull1D
Entries 98
Mean −0.0005664
Std Dev 0.1747
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

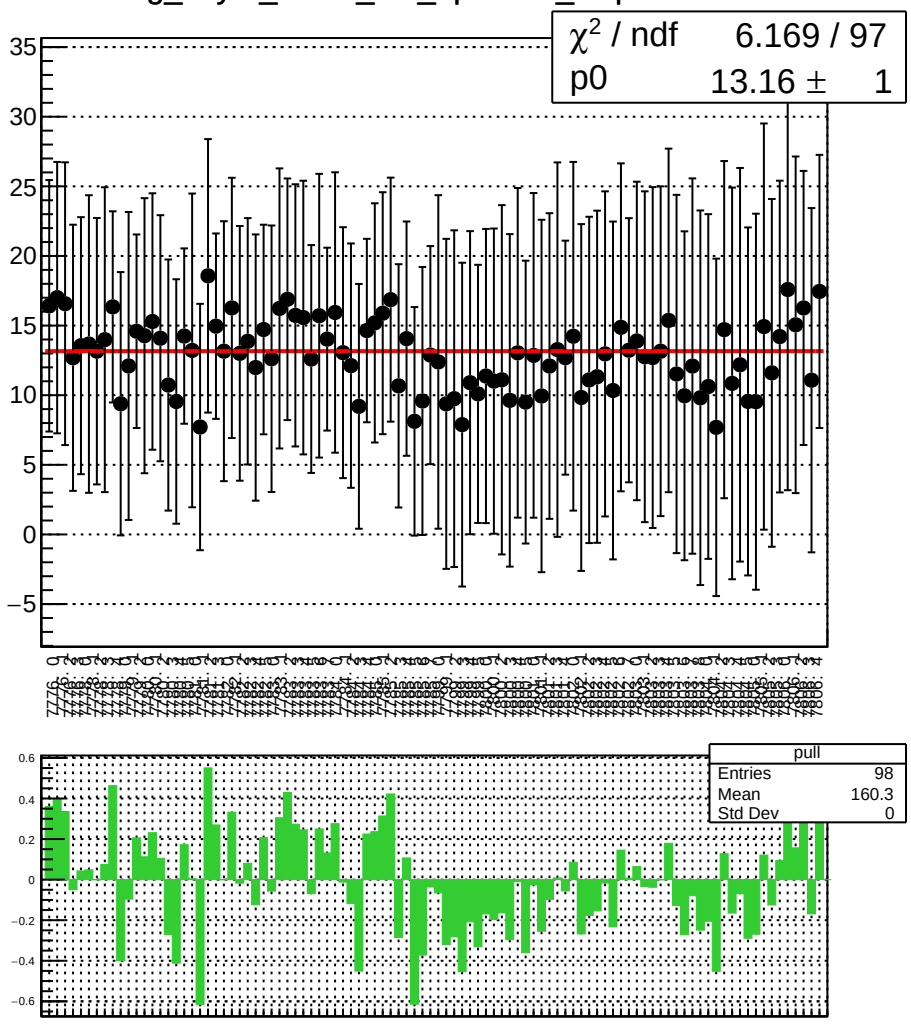

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.011 / 97
p0 74.81 ± 7.965
pull
Entries 98
Mean −1834
Std Dev 0
pull1D
Entries 98
Mean 0.0006651
Std Dev 0.1016

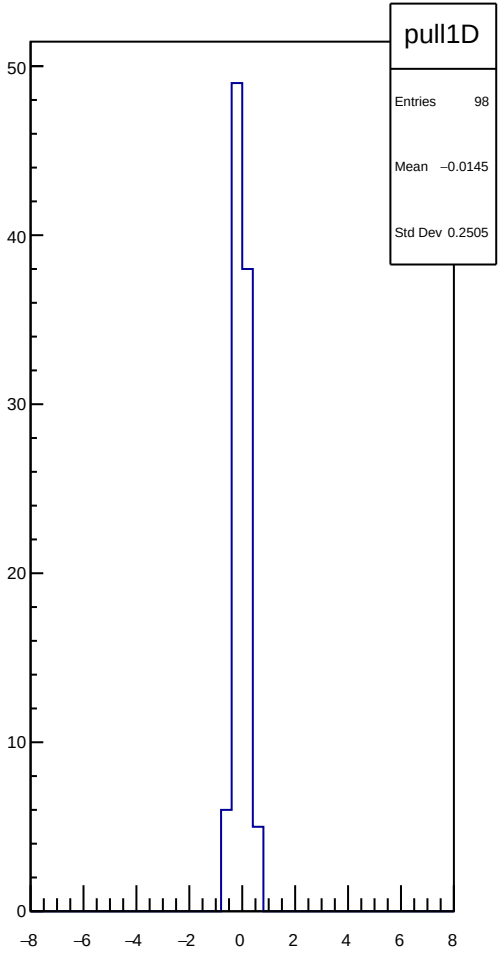

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 1.391 / 97
p0 −4.681 ± 0.2521
pull
Entries 98
Mean −286.8
Std Dev 0
pull1D
Entries 98
Mean 0.001672
Std Dev 0.1191

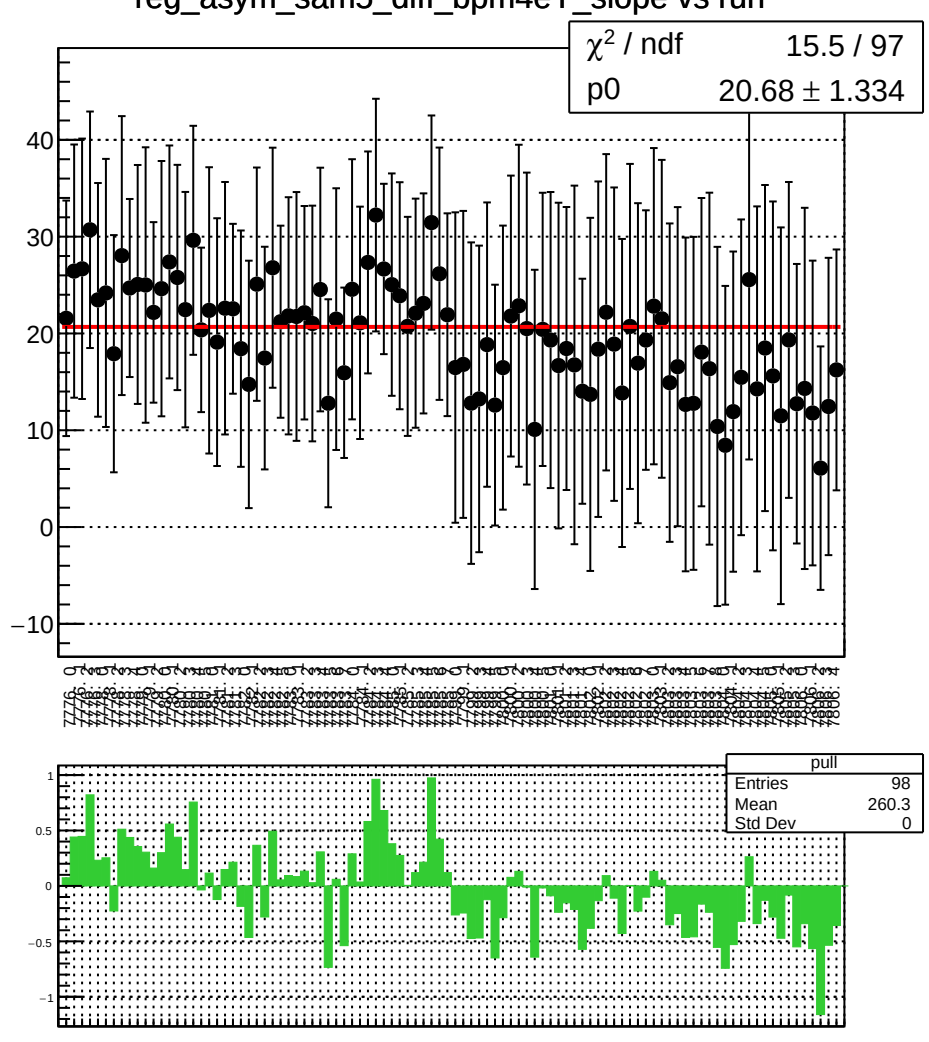

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 5.677 / 97
p0 −8.797 ± 1.149
pull
Entries 98
Mean 170.5
Std Dev 0

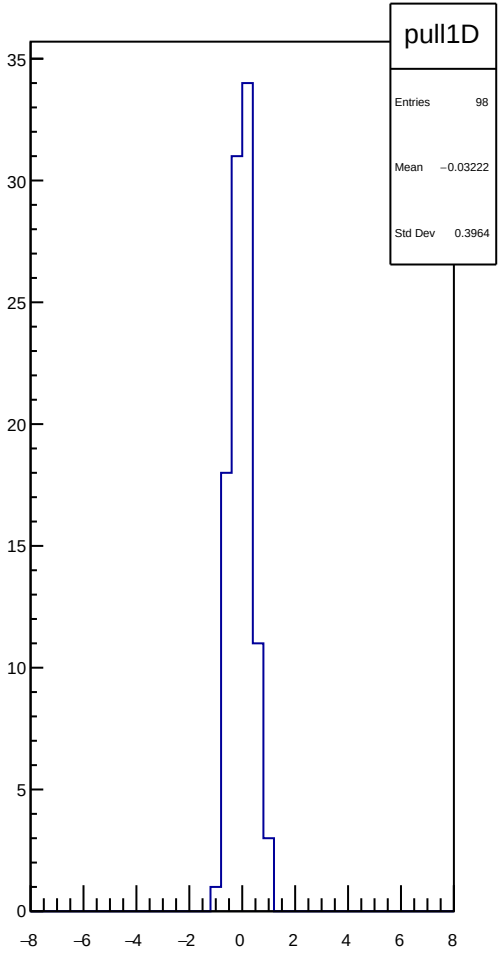

pull1D
Entries 98
Mean 0.01461
Std Dev 0.2402

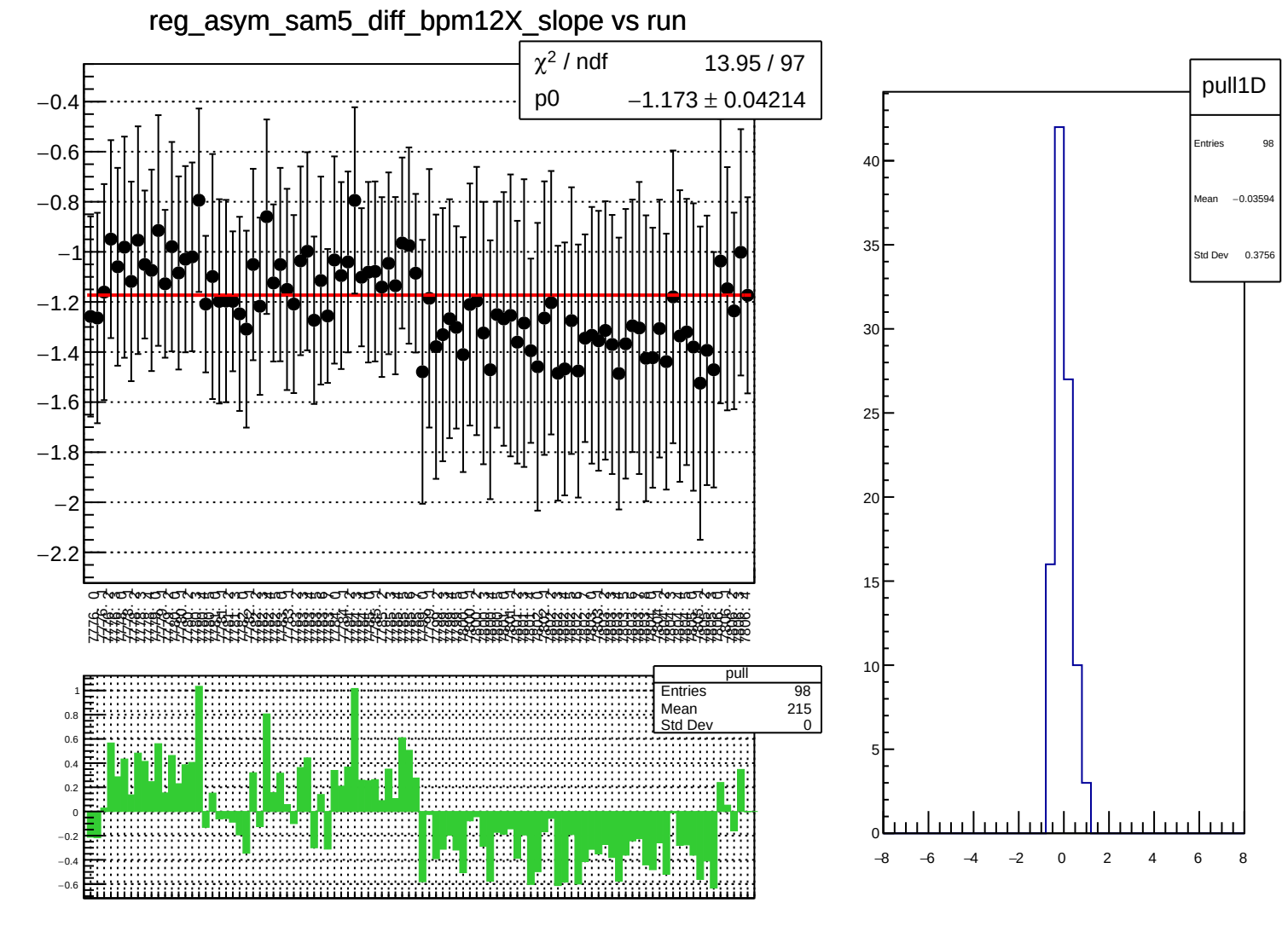

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 28.7 / 97
p0 119.7 ± 1.18
150
140
130
120
110
100
pull
Entries 98
Mean 215.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.06591
Std Dev 0.5371
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

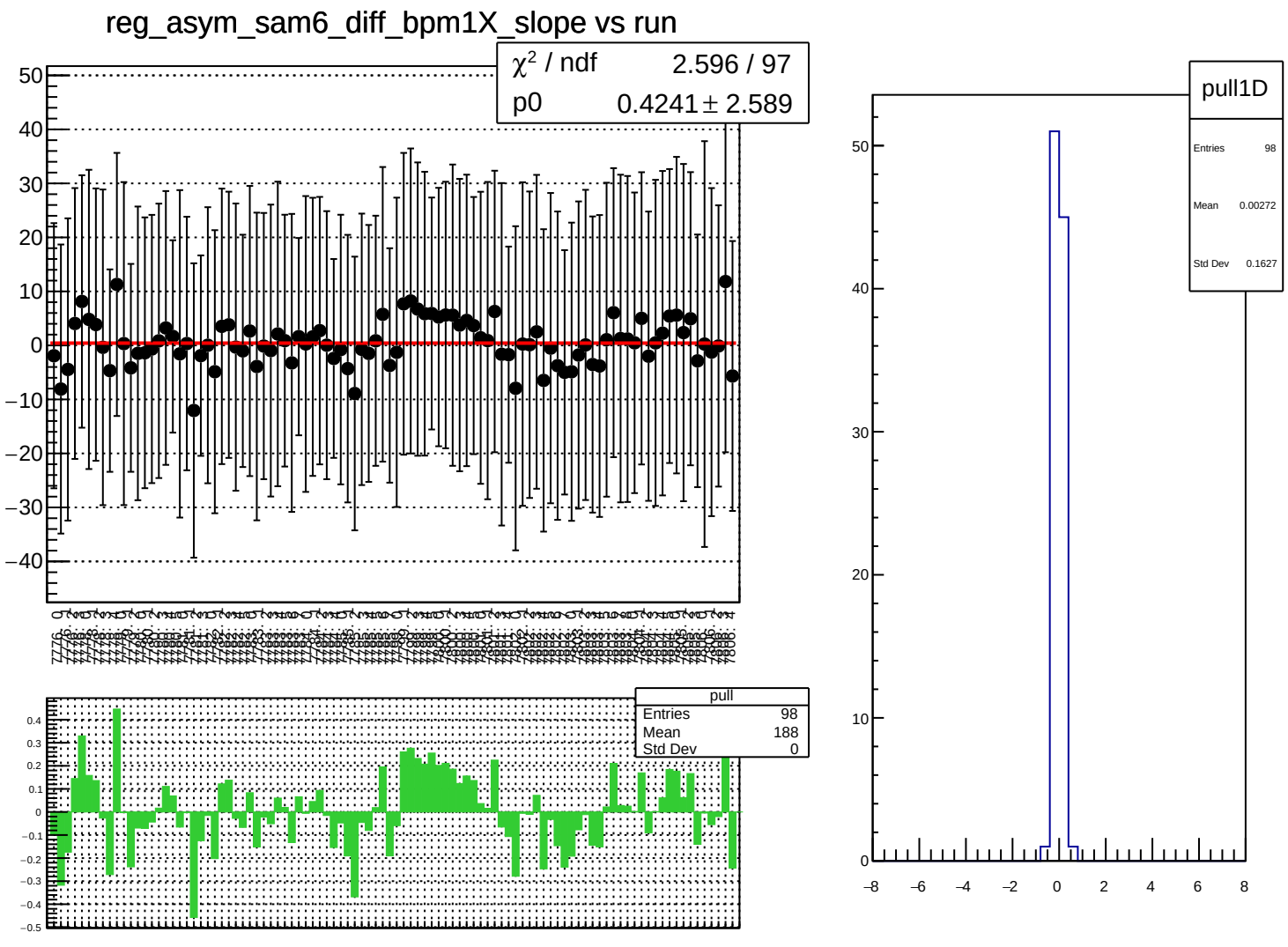

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 6.169 / 97
p0 13.16 ± 1
pull
Entries 98
Mean 160.3
Std Dev 0

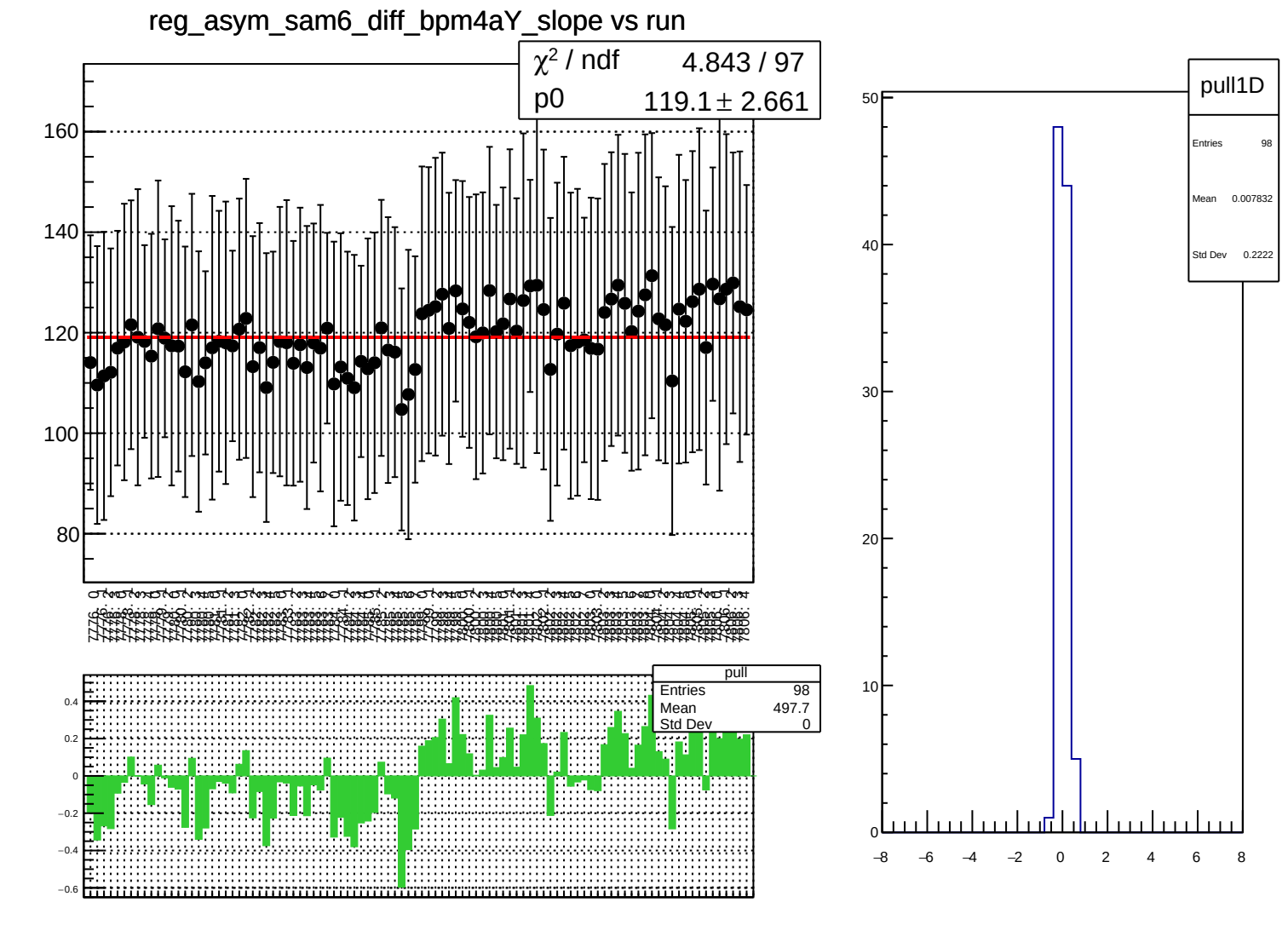

pull1D
Entries 98
Mean −0.0145
Std Dev 0.2505

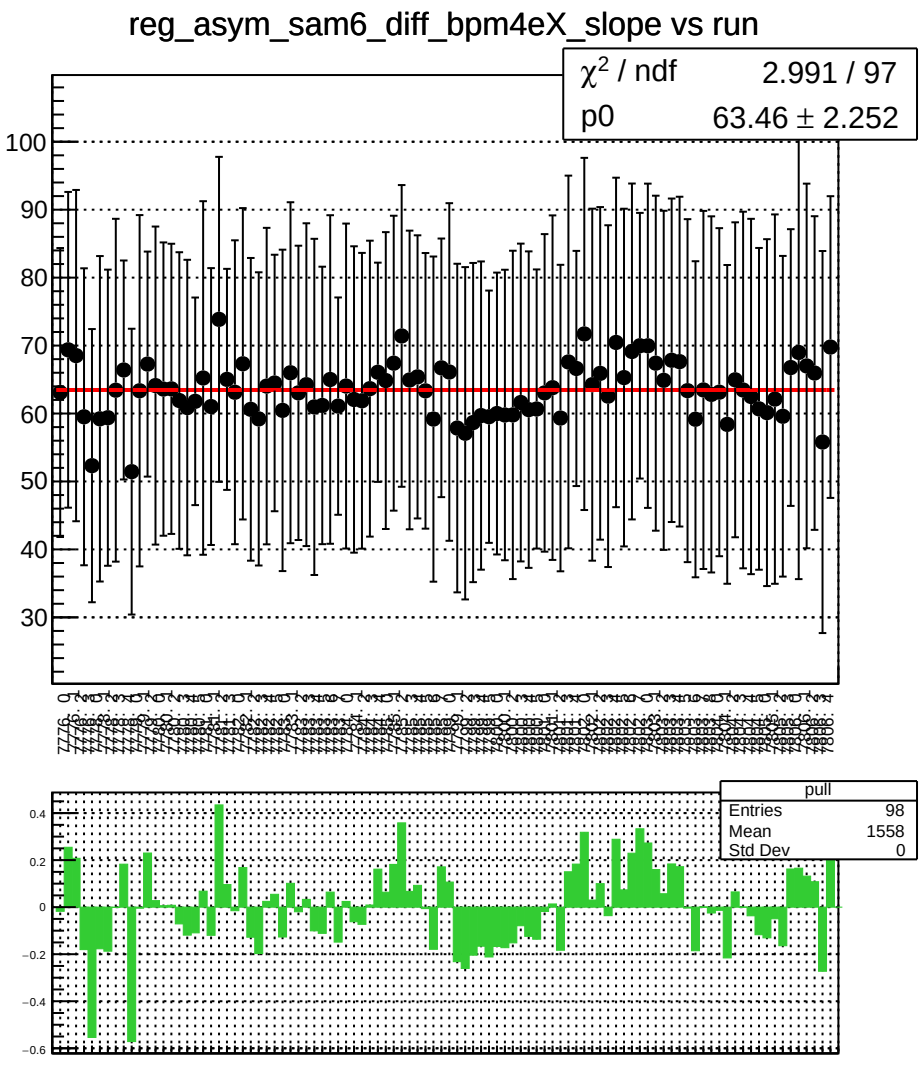

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 15.5 / 97
p0 20.68 ± 1.334
pull
Entries 98
Mean 260.3
Std Dev 0

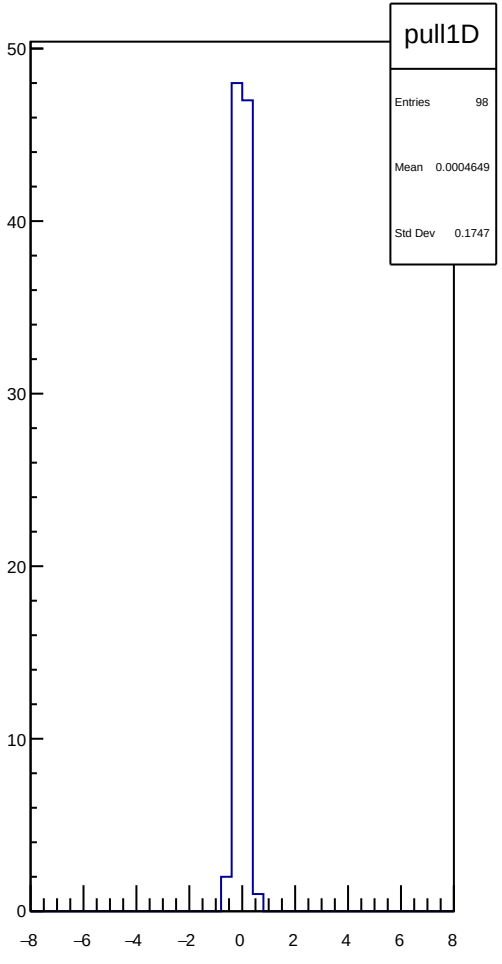

pull1D
Entries 98
Mean −0.03222
Std Dev 0.3964

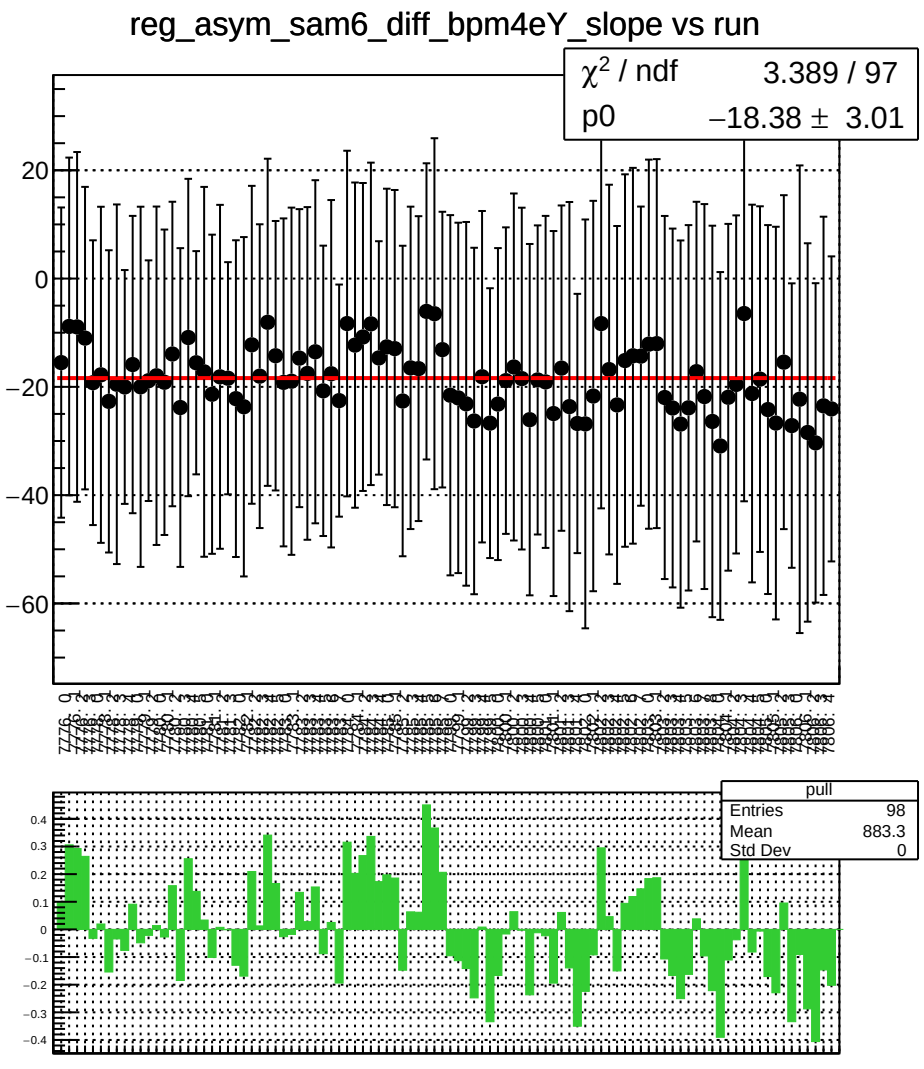

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 13.95 / 97
p0 −1.173 ± 0.04214
pull
Entries 98
Mean 215
Std Dev 0
pull1D
Entries 98
Mean −0.03594
Std Dev 0.3756

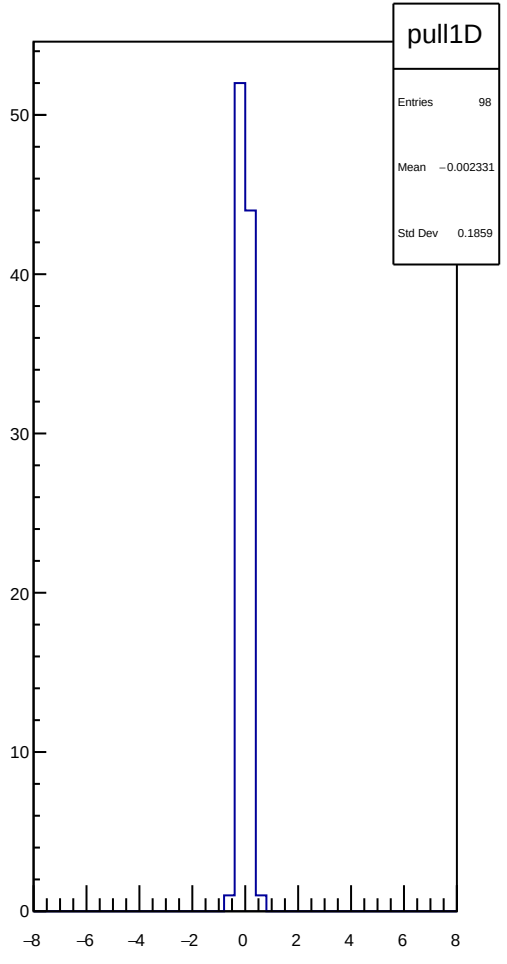

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.596 / 97
p0 0.4241 ± 2.589
pull
Entries 98
Mean 188
Std Dev 0
pull1D
Entries 98
Mean 0.00272
Std Dev 0.1627

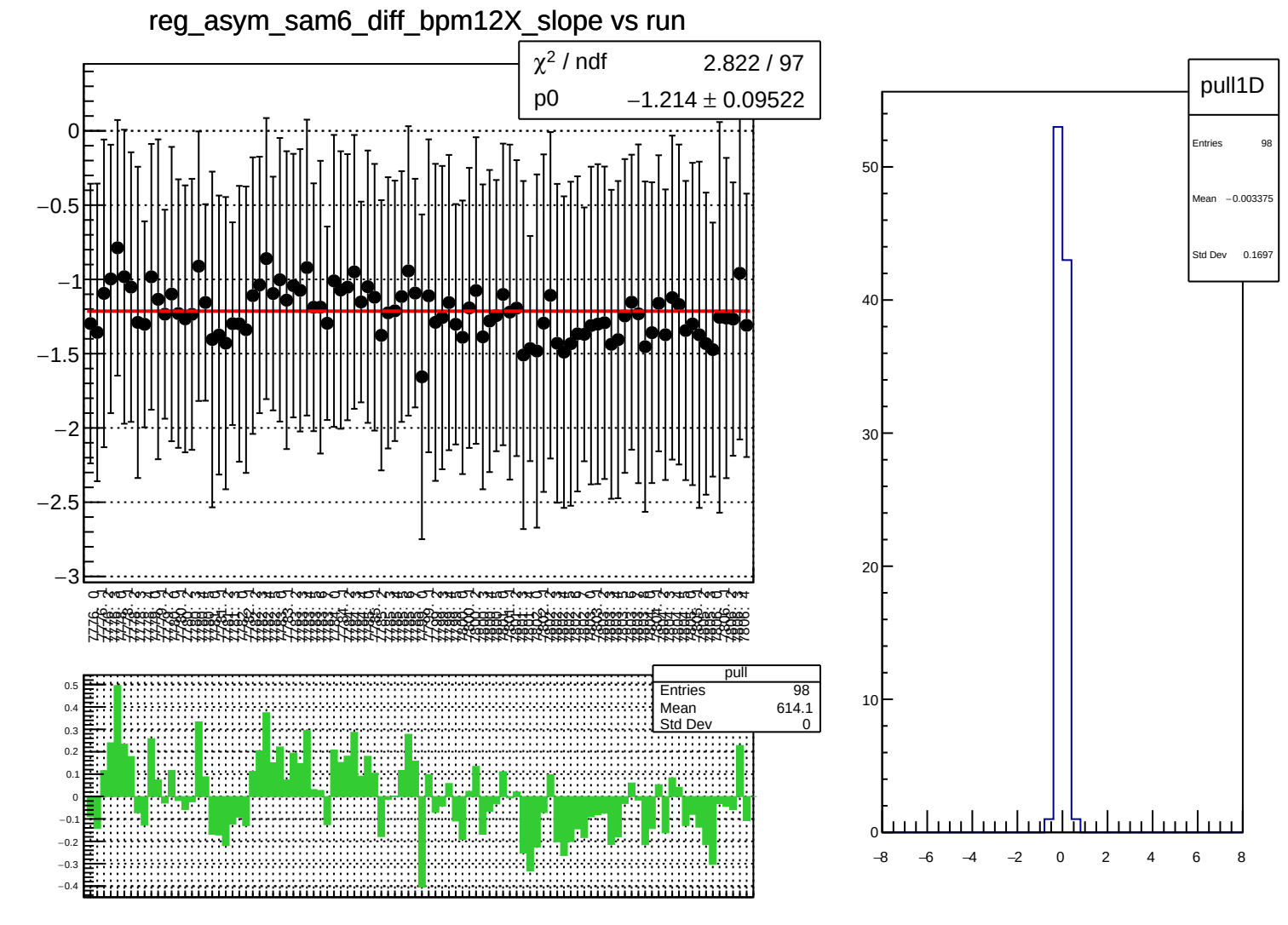

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 4.843 / 97
p0 119.1 ± 2.661
160
140
120
100
80
pull
Entries 98
Mean 497.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean 0.007832
Std Dev 0.2222
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

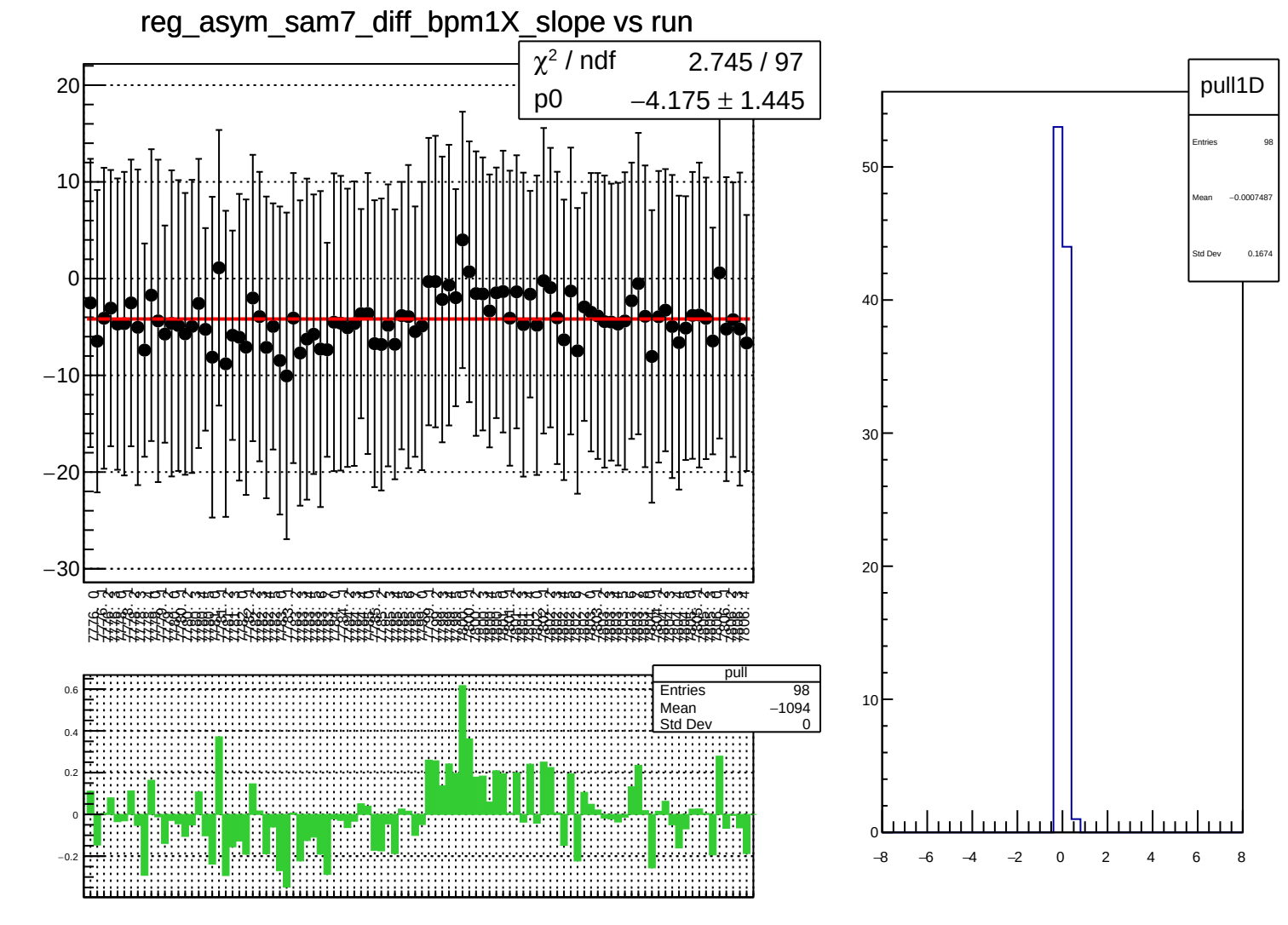

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 2.991 / 97
p0 63.46 ± 2.252
pull
Entries 98
Mean 1558
Std Dev 0

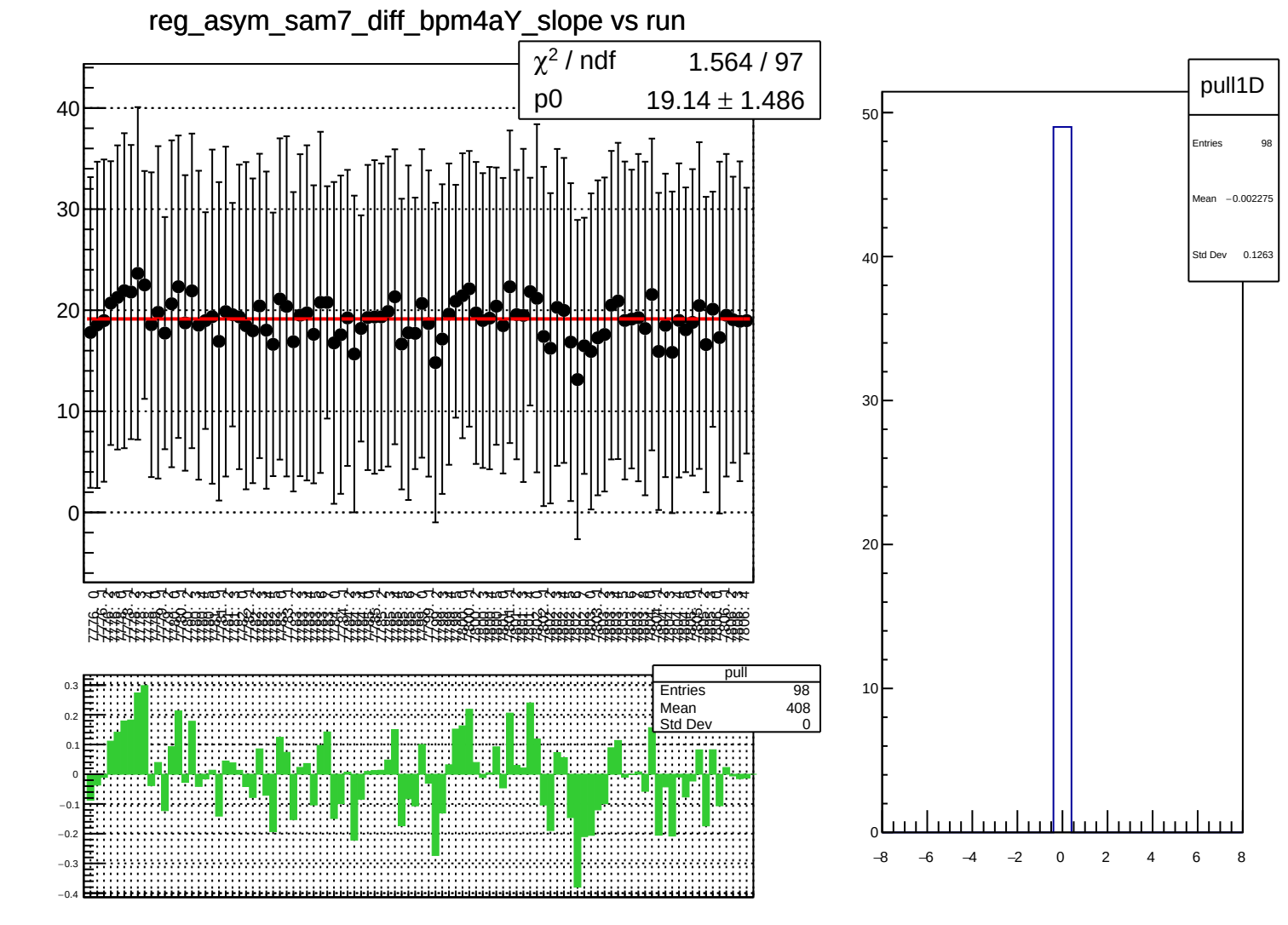

pull1D
Entries 98
Mean 0.0004649
Std Dev 0.1747

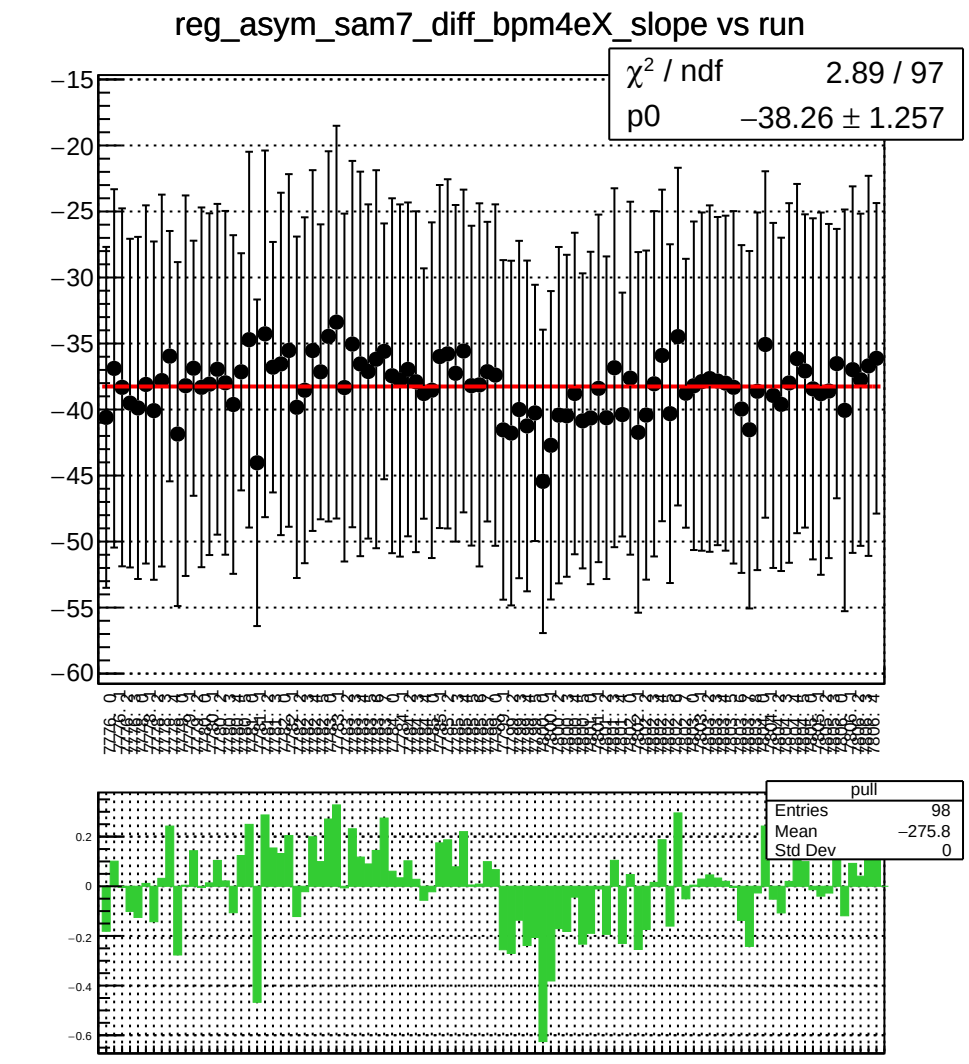

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 3.389 / 97
p0 −18.38 ± 3.01
20
0
−20
−40
−60
pull
Entries 98
Mean 883.3
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

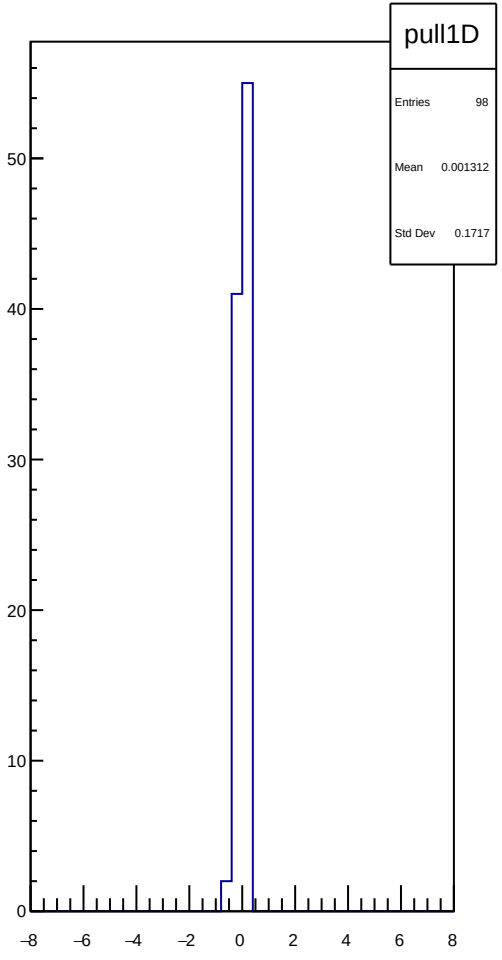

pull1D
Entries 98
Mean −0.002331
Std Dev 0.1859
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

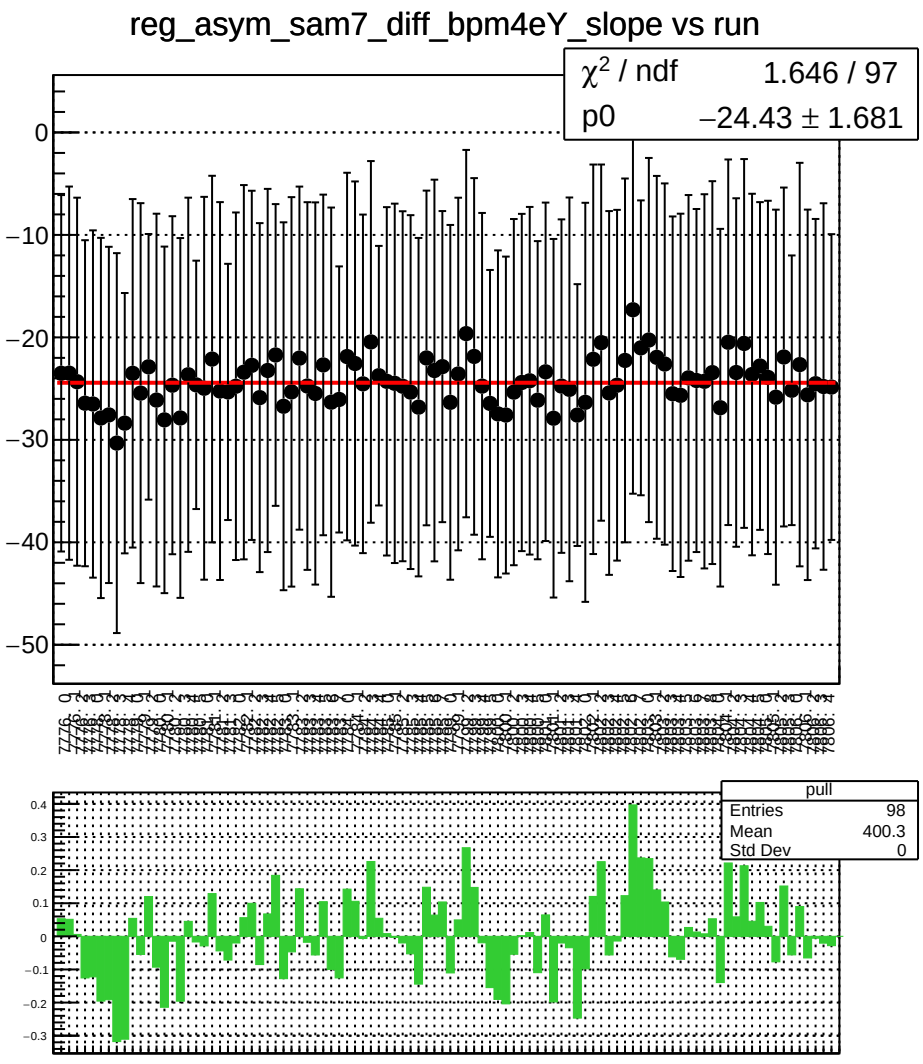

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 2.822 / 97
p0 −1.214 ± 0.09522
pull
Entries 98
Mean 614.1
Std Dev 0
pull1D
Entries 98
Mean −0.003375
Std Dev 0.1697

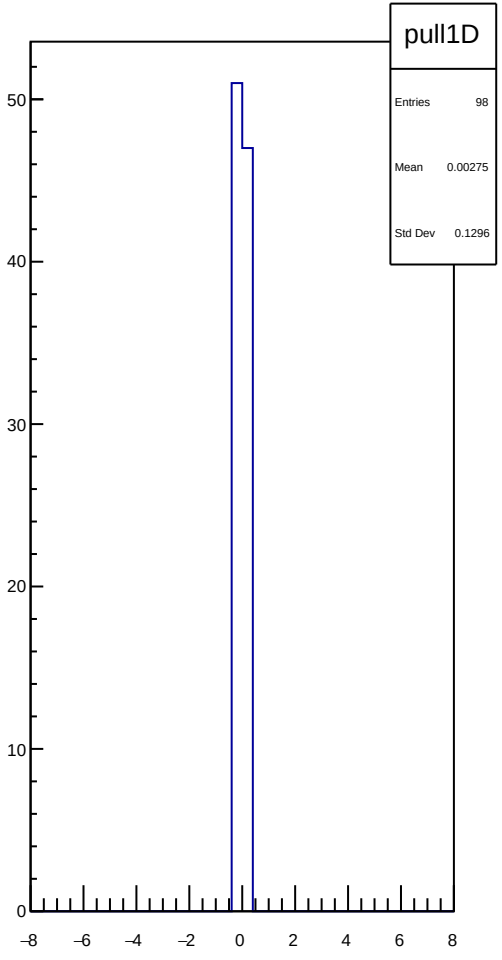

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 2.745 / 97
p0 −4.175 ± 1.445
pull
Entries 98
Mean −1094
Std Dev 0
pull1D
Entries 98
Mean −0.0007487
Std Dev 0.1674

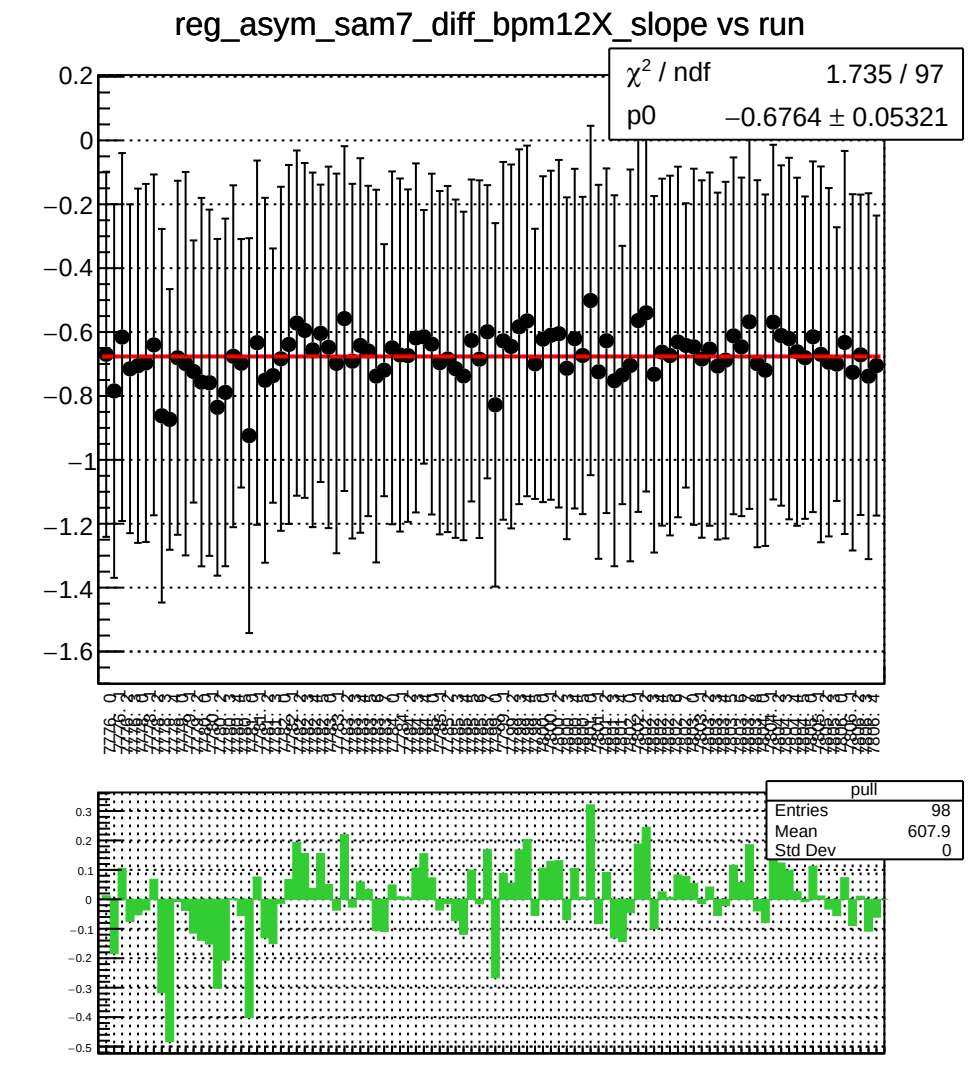

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 1.564 / 97
p0 19.14 ± 1.486
pull
Entries 98
Mean 408
Std Dev 0
pull1D
Entries 98
Mean −0.002275
Std Dev 0.1263

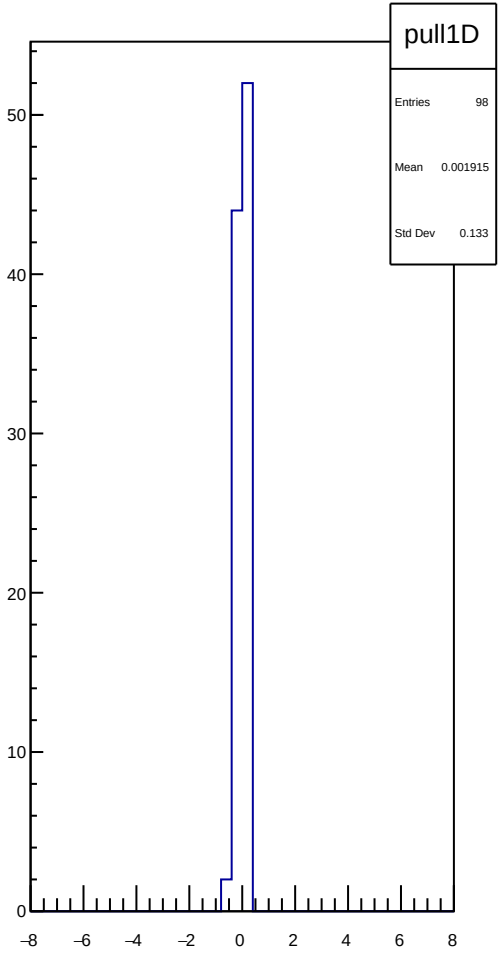

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 2.89 / 97
p0 −38.26 ± 1.257
pull
Entries 98
Mean −275.8
Std Dev 0

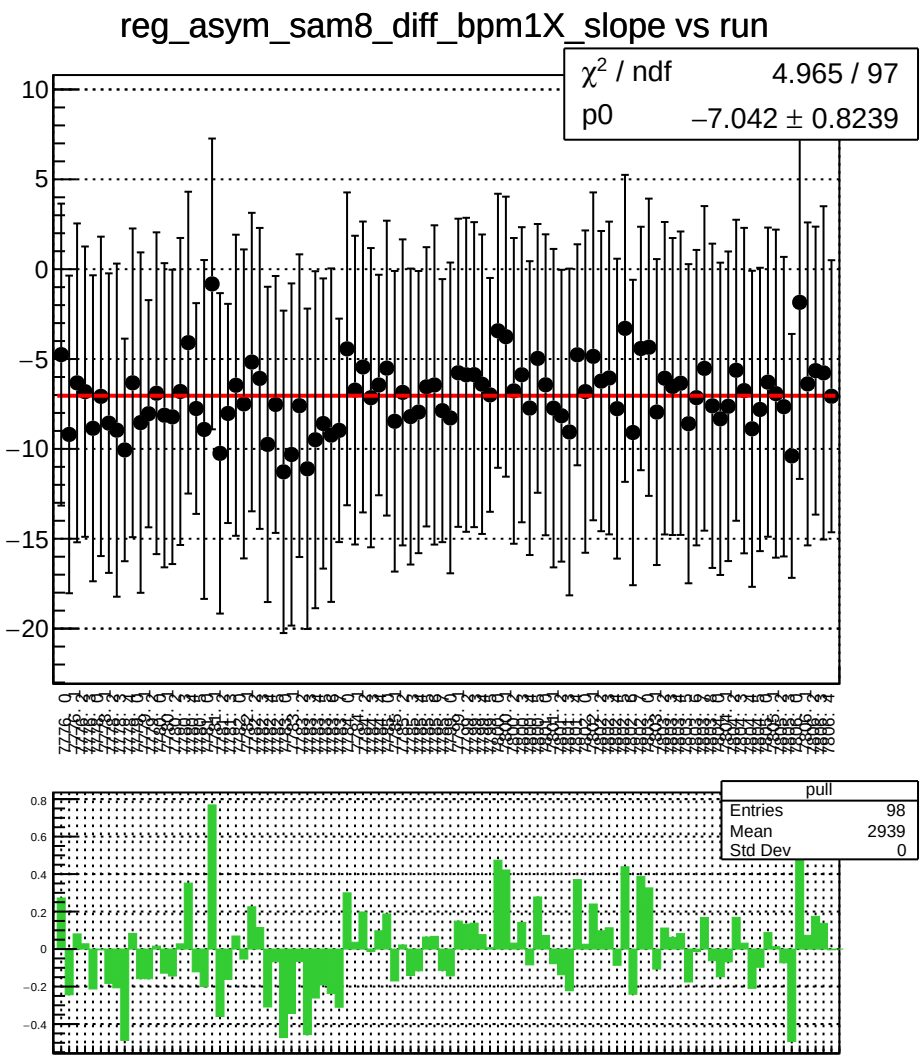

pull1D
Entries 98
Mean 0.001312
Std Dev 0.1717

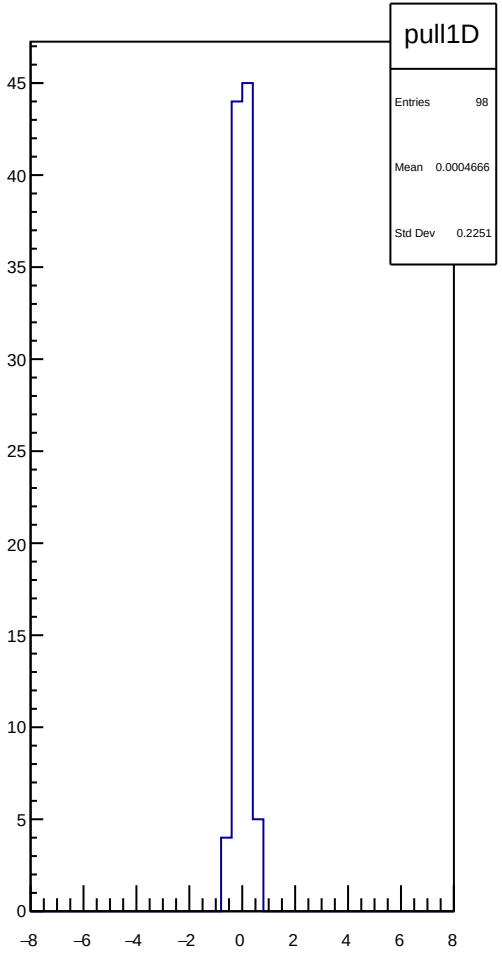

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 1.646 / 97
p0 −24.43 ± 1.681
0
−10
−20
−30
−40
−50
pull
Entries 98
Mean 400.3
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

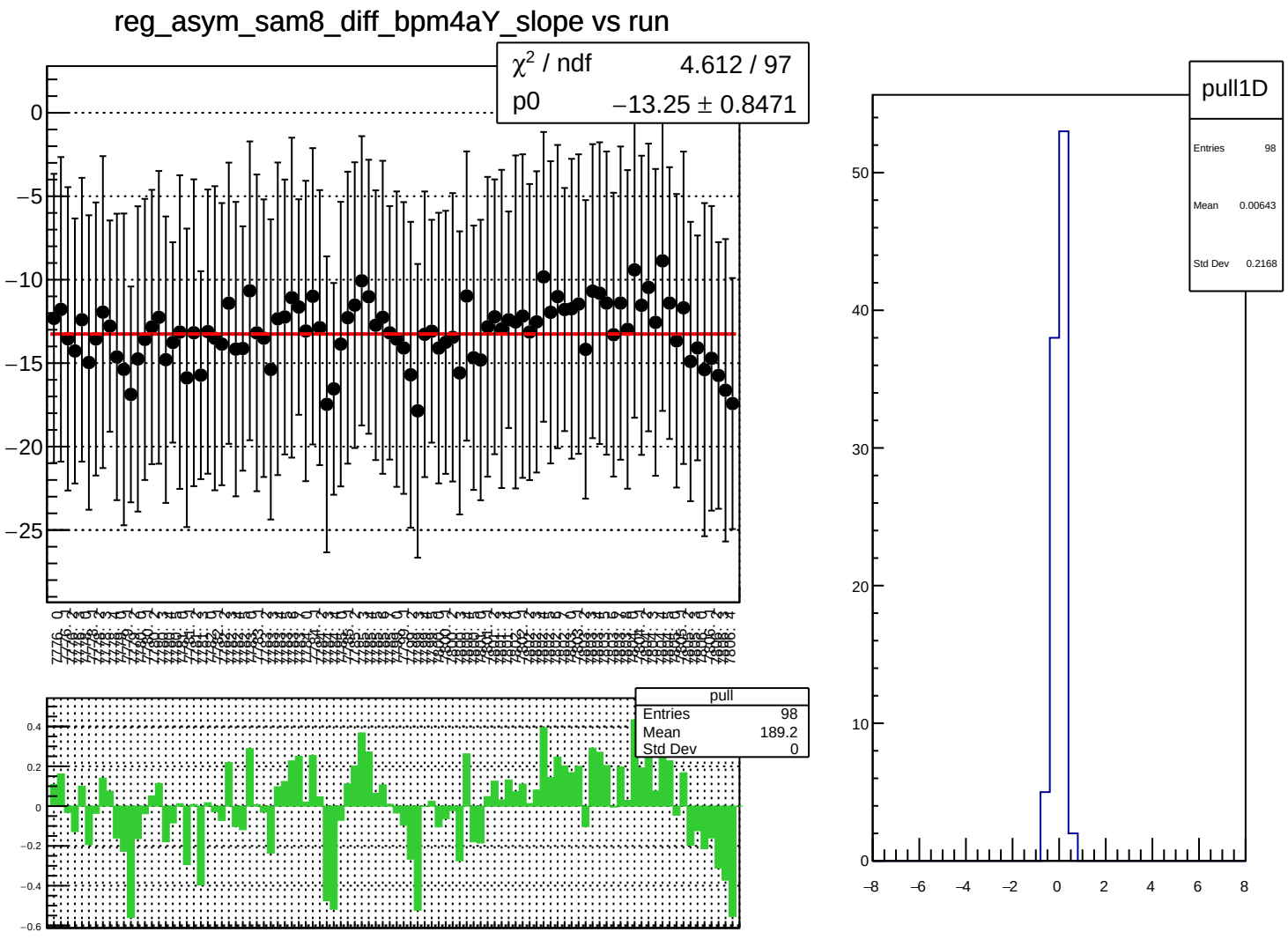

pull1D
Entries 98
Mean 0.00275
Std Dev 0.1296
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

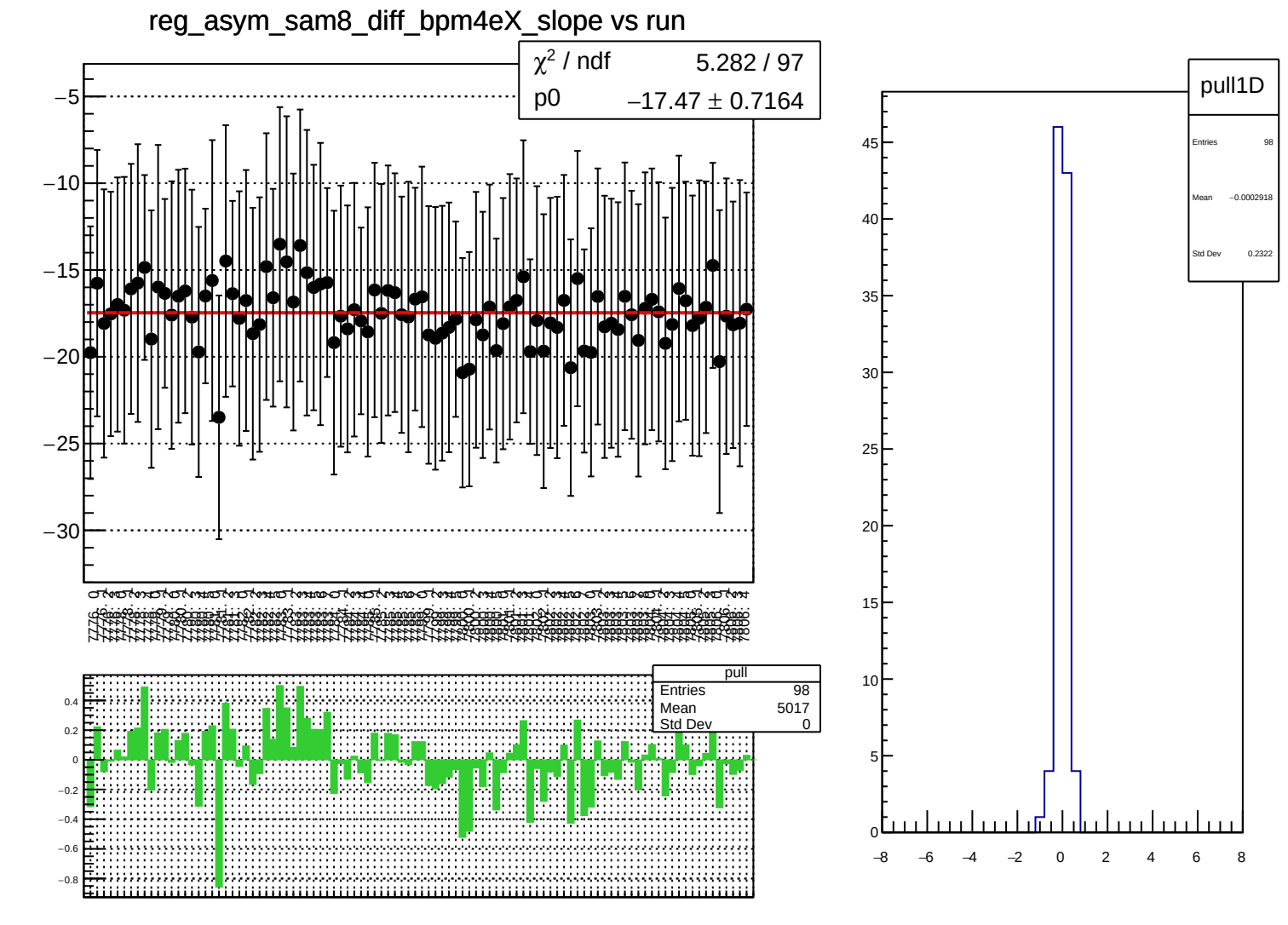

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 1.735 / 97
p0 −0.6764 ± 0.05321
pull
Entries 98
Mean 607.9
Std Dev 0

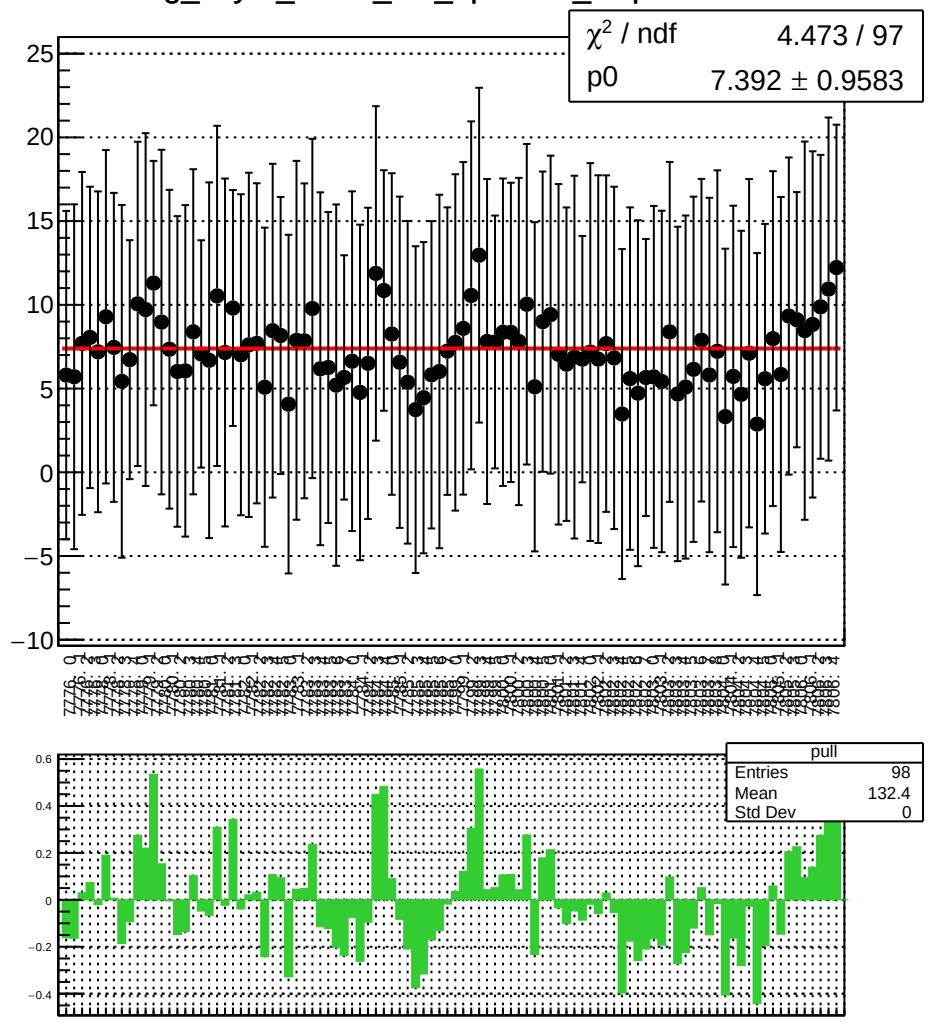

pull1D
Entries 98
Mean 0.001915
Std Dev 0.133

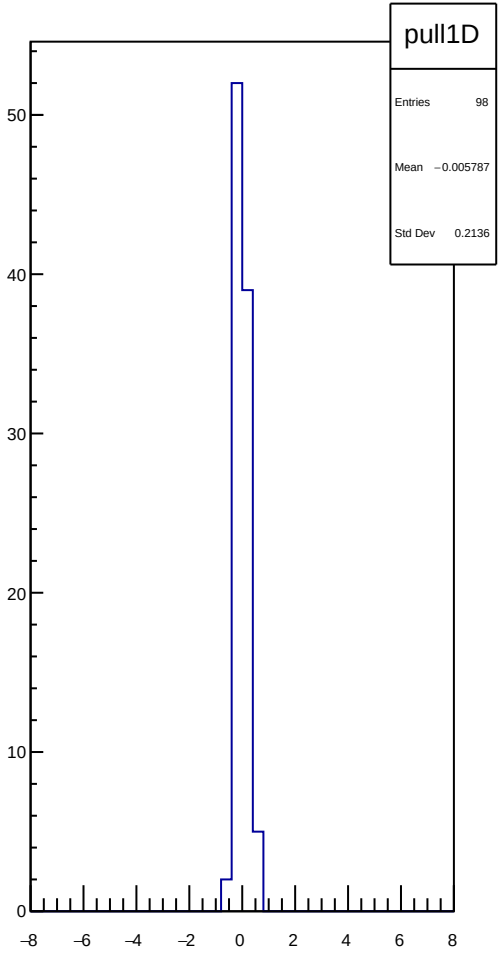

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 4.965 / 97
p0 −7.042 ± 0.8239
pull
Entries 98
Mean 2939
Std Dev 0

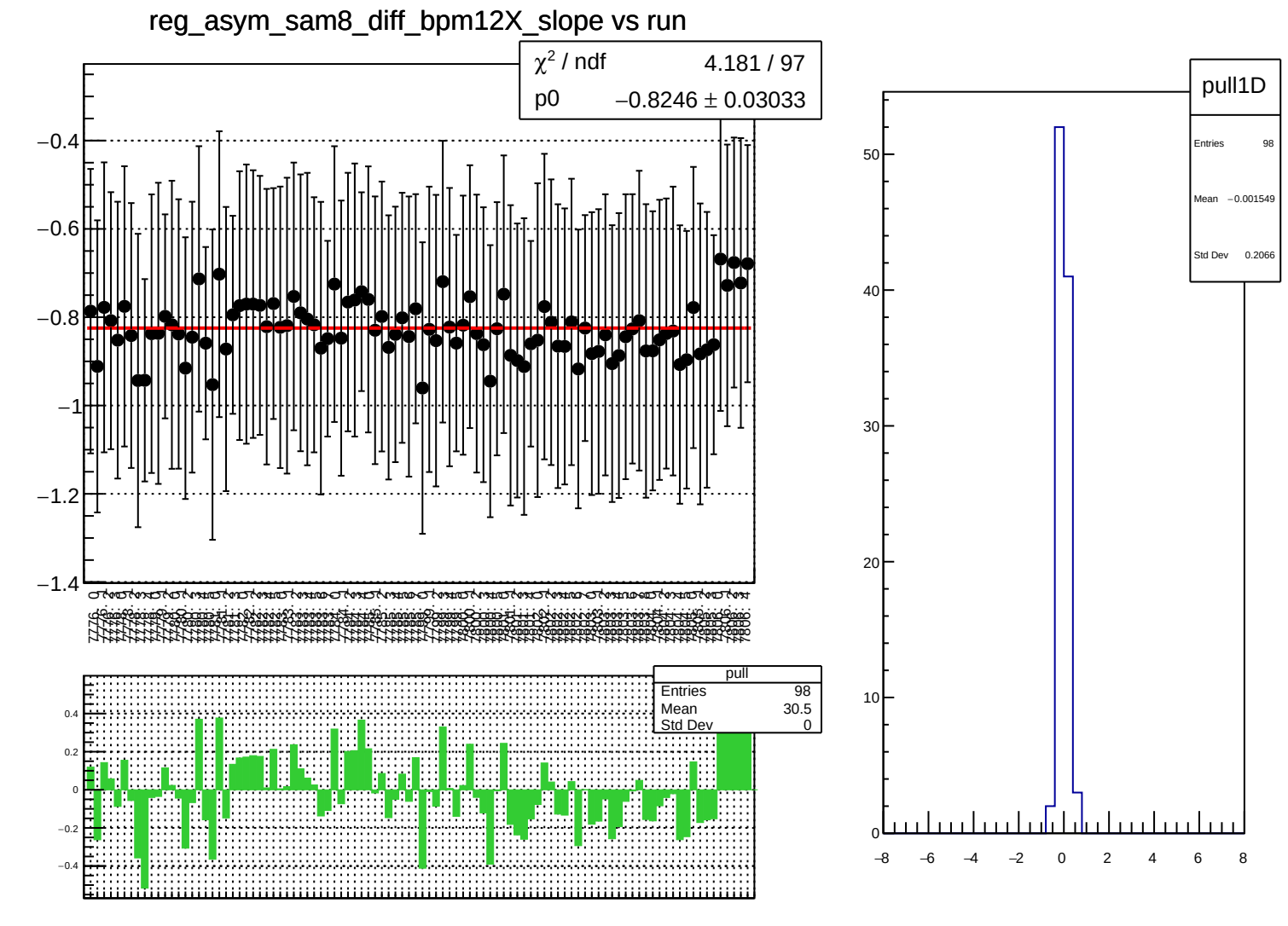

pull1D
Entries 98
Mean 0.0004666
Std Dev 0.2251

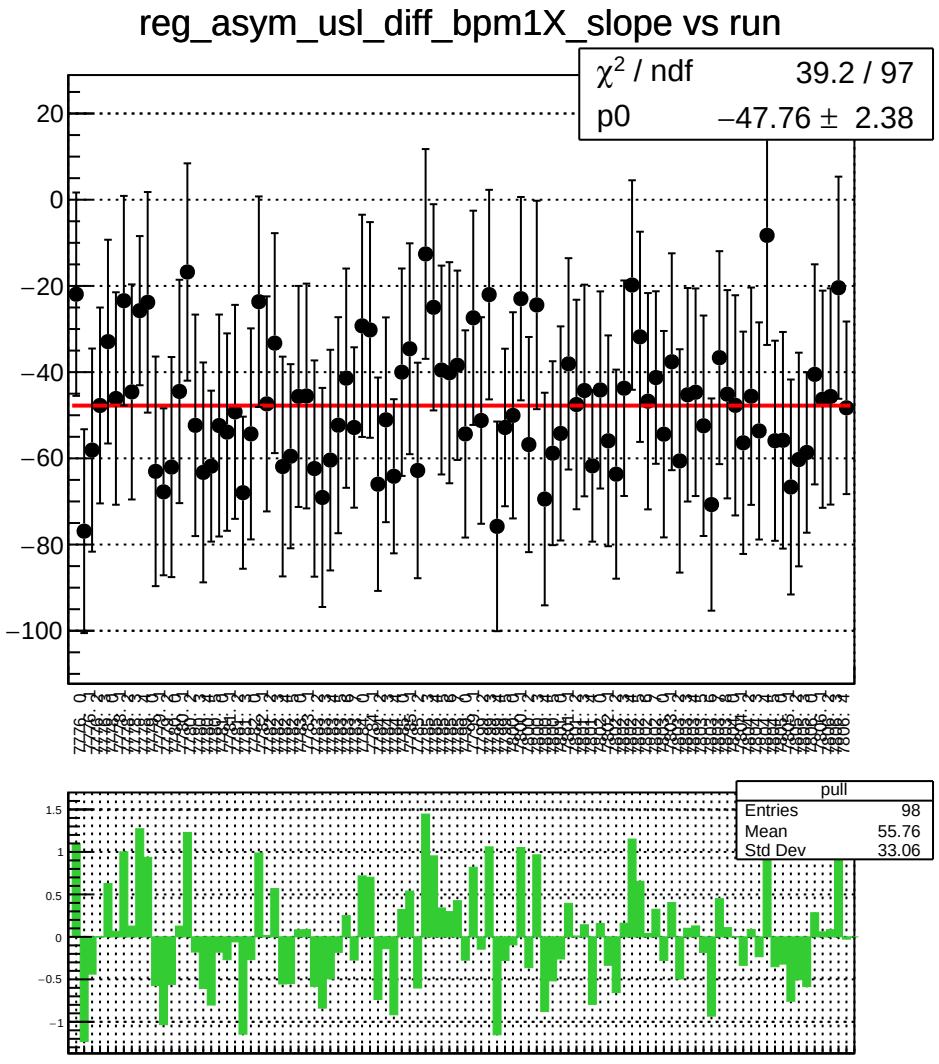

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 4.612 / 97
p0 −13.25 ± 0.8471
pull
Entries 98
Mean 189.2
Std Dev 0
pull1D
Entries 98
Mean 0.00643
Std Dev 0.2168

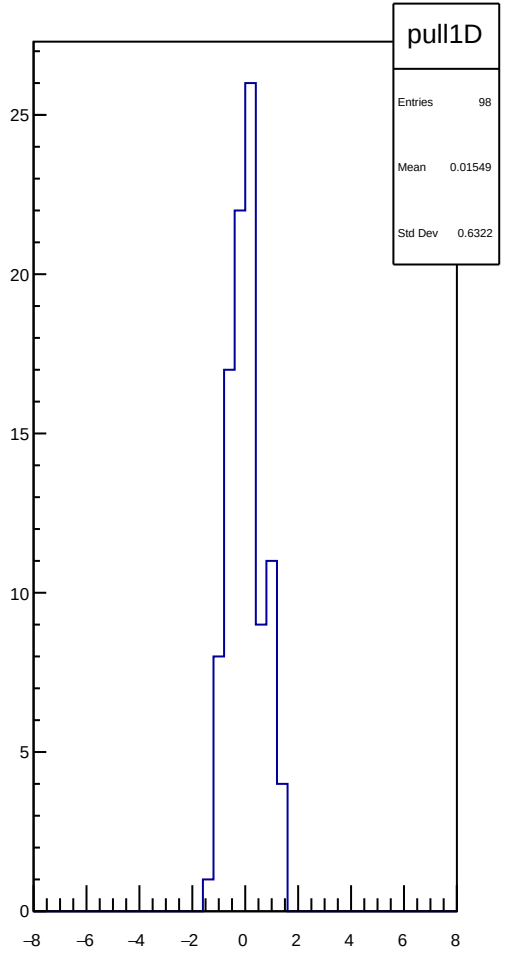

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 5.282 / 97
p0 −17.47 ± 0.7164
pull
Entries 98
Mean 5017
Std Dev 0
pull1D
Entries 98
Mean −0.0002918
Std Dev 0.2322

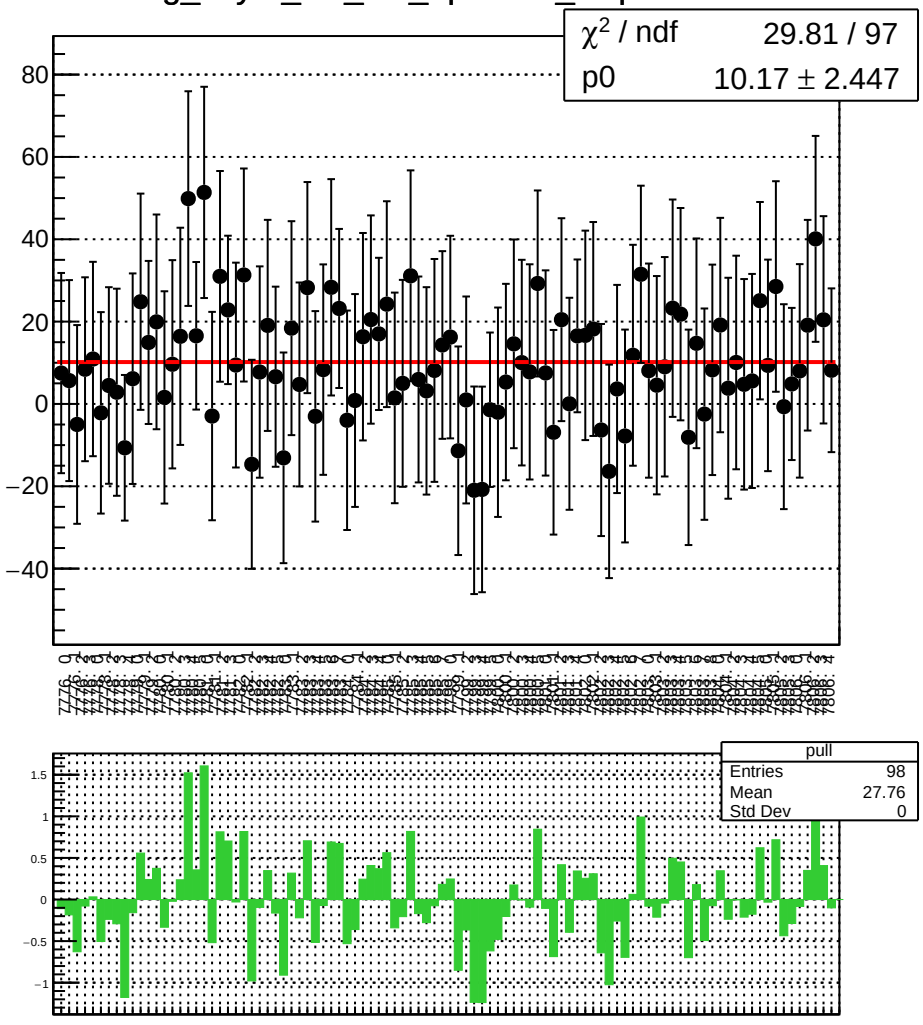

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 4.473 / 97
p0 7.392 ± 0.9583
pull
Entries 98
Mean 132.4
Std Dev 0

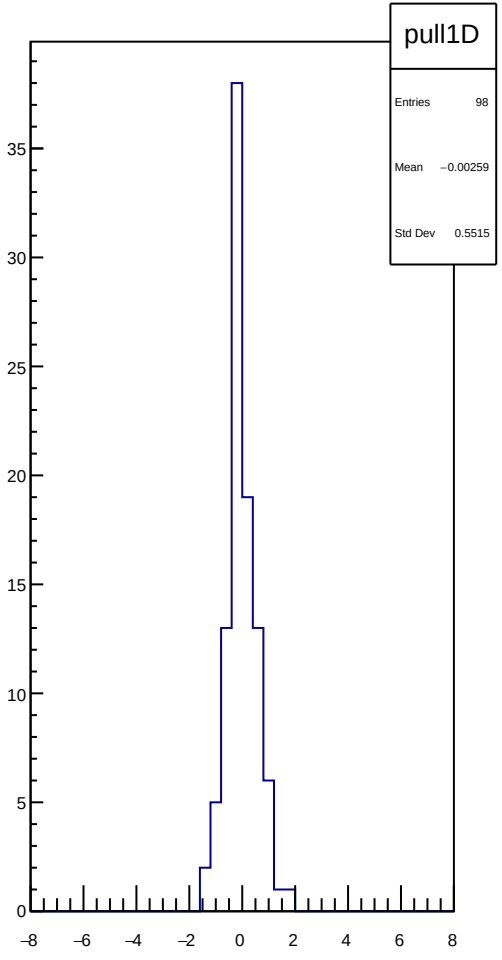

pull1D
Entries 98
Mean −0.005787
Std Dev 0.2136

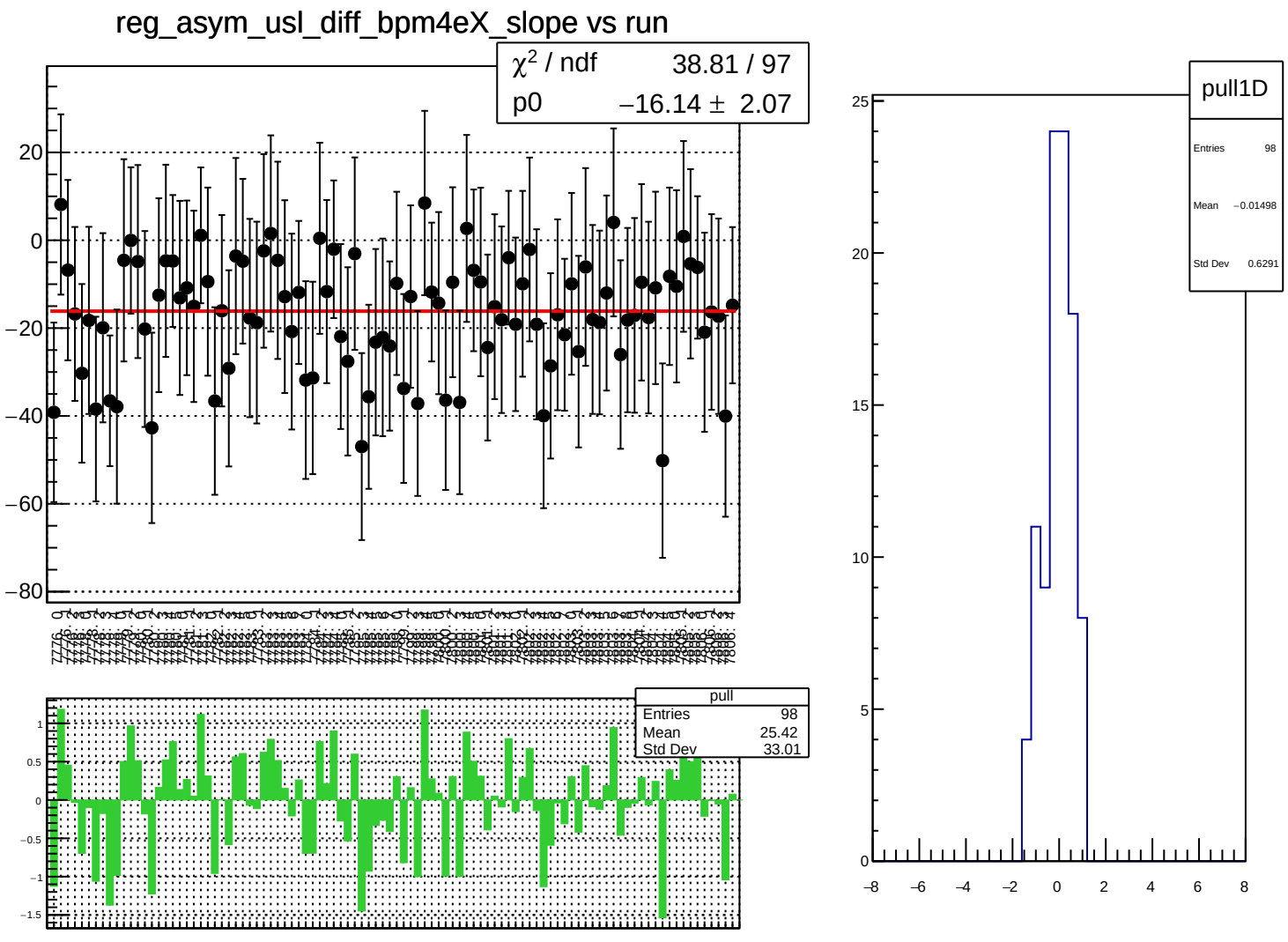

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 4.181 / 97
p0 −0.8246 ± 0.03033
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 98
Mean 30.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 98
Mean −0.001549
Std Dev 0.2066
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

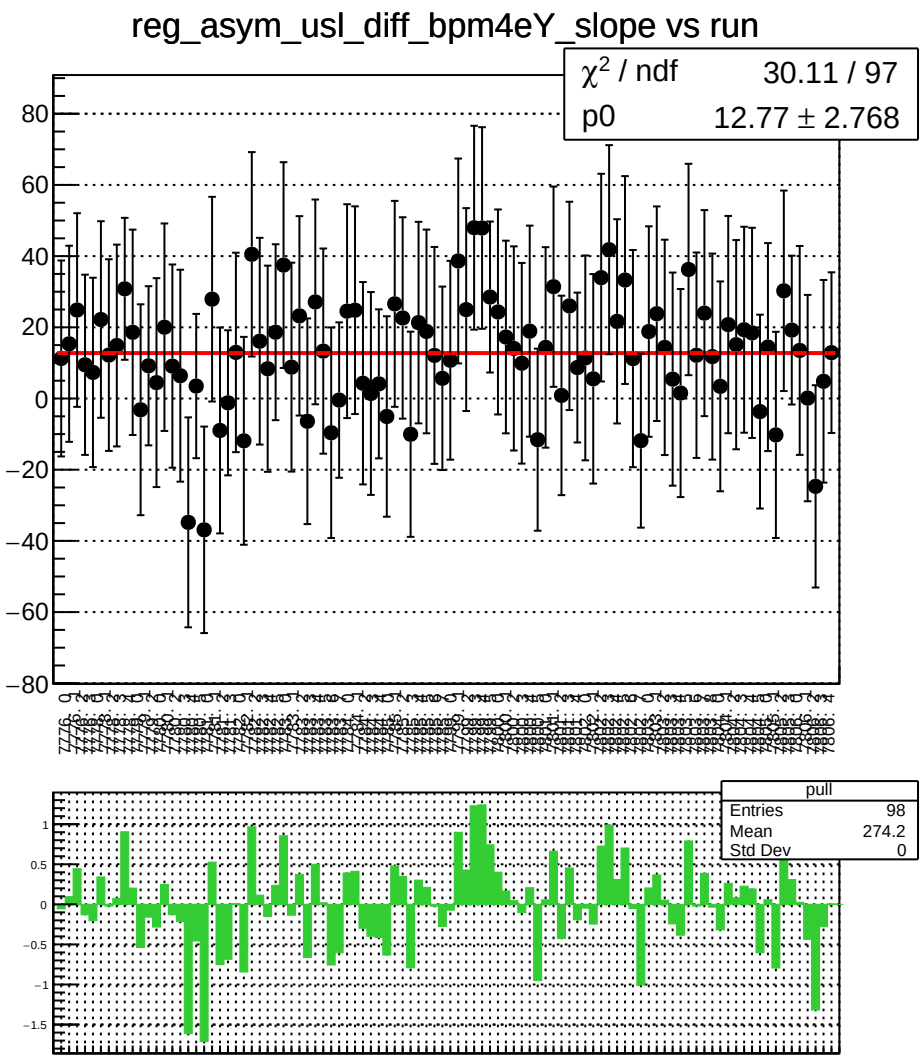

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 39.2 / 97
p0 −47.76 ± 2.38
20
0
−20
−40
−60
−80
−100
pull
Entries 98
Mean 55.76
Std Dev 33.06
1.5
1
0.5
0
−0.5
−1

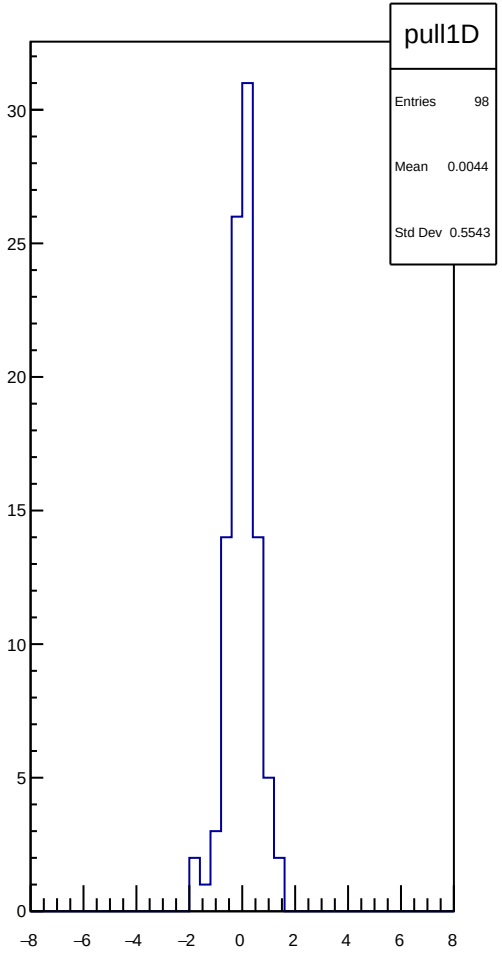

pull1D
Entries 98
Mean 0.01549
Std Dev 0.6322
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

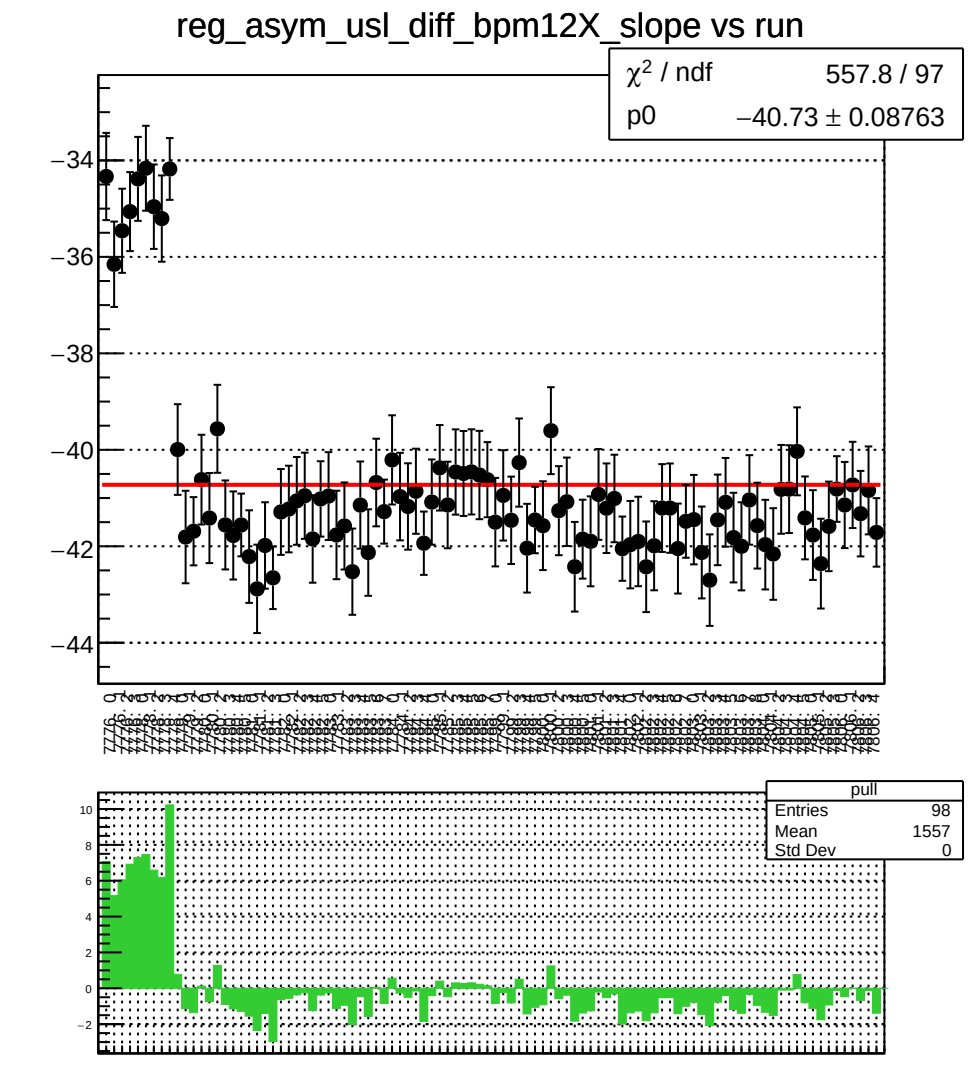

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 29.81 / 97
p0 10.17 ± 2.447
pull
Entries 98
Mean 27.76
Std Dev 0

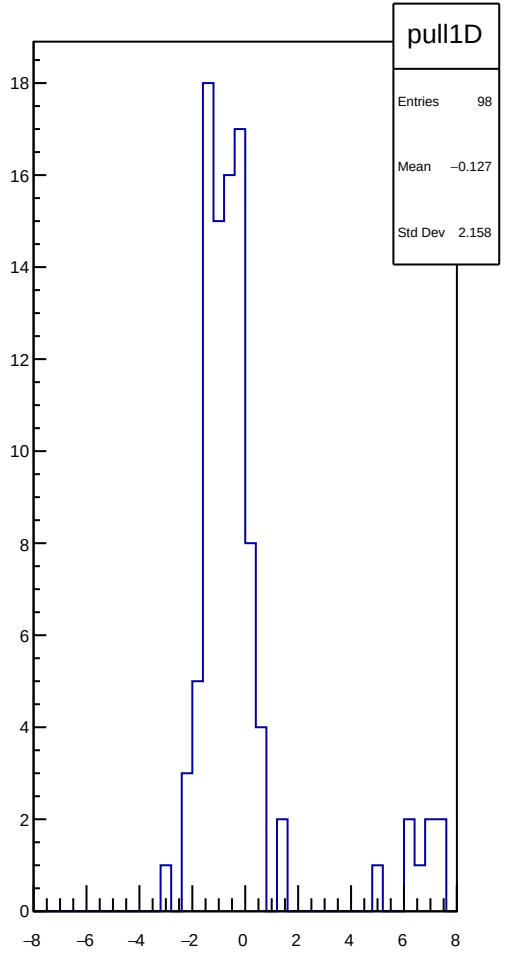

pull1D
Entries 98
Mean −0.00259
Std Dev 0.5515

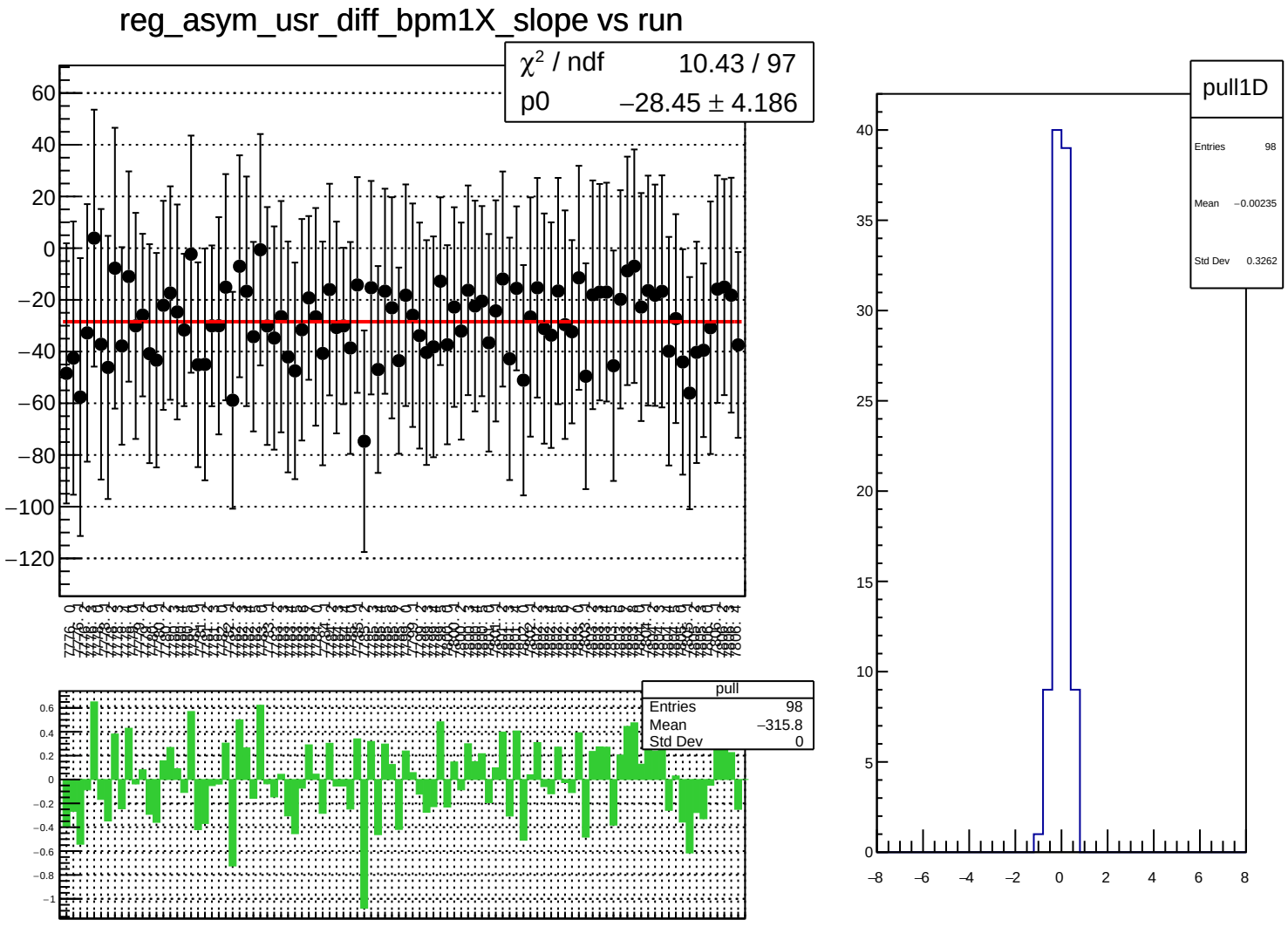

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 38.81 / 97
p0 −16.14 ± 2.07
pull
Entries 98
Mean 25.42
Std Dev 33.01
pull1D
Entries 98
Mean −0.01498
Std Dev 0.6291

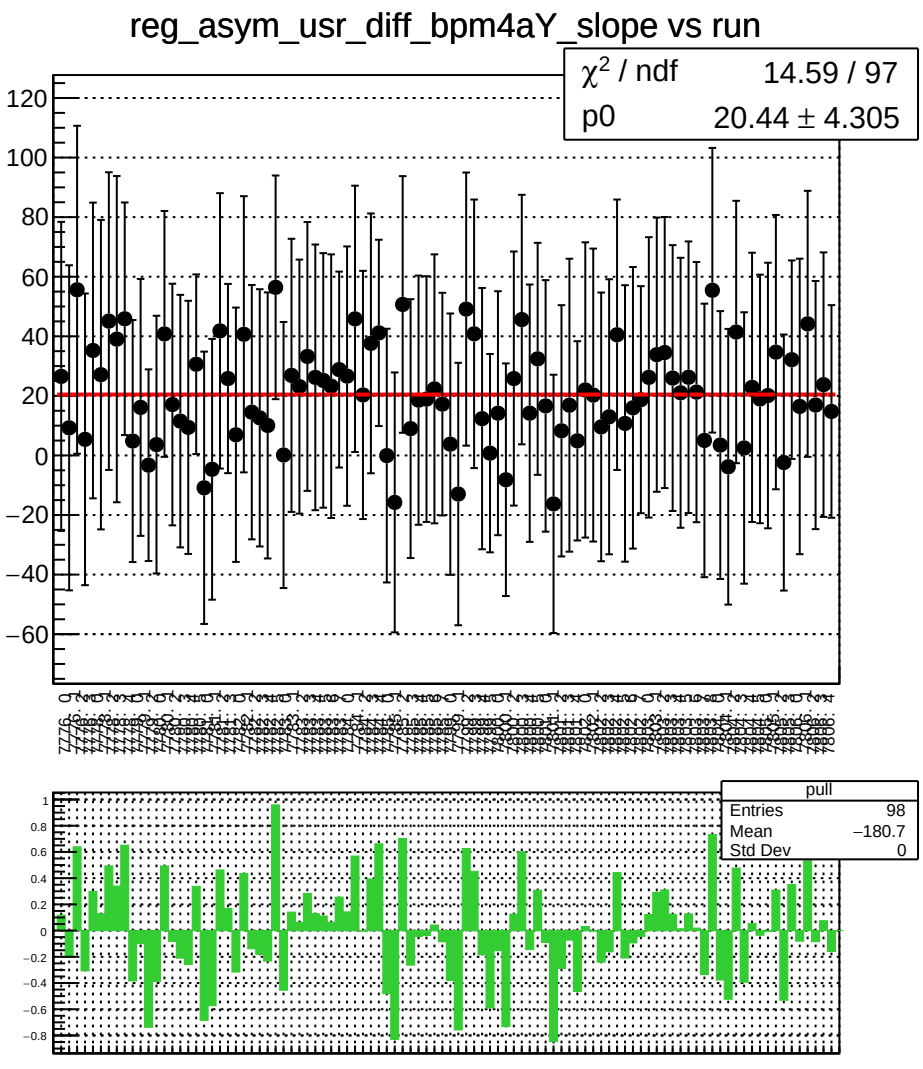

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 30.11 / 97
p0 12.77 ± 2.768
pull
Entries 98
Mean 274.2
Std Dev 0

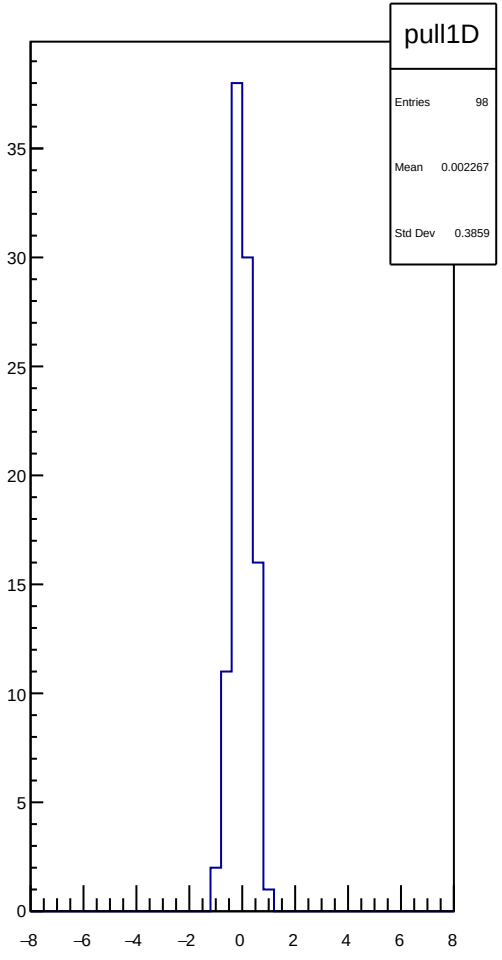

pull1D
Entries 98
Mean 0.0044
Std Dev 0.5543

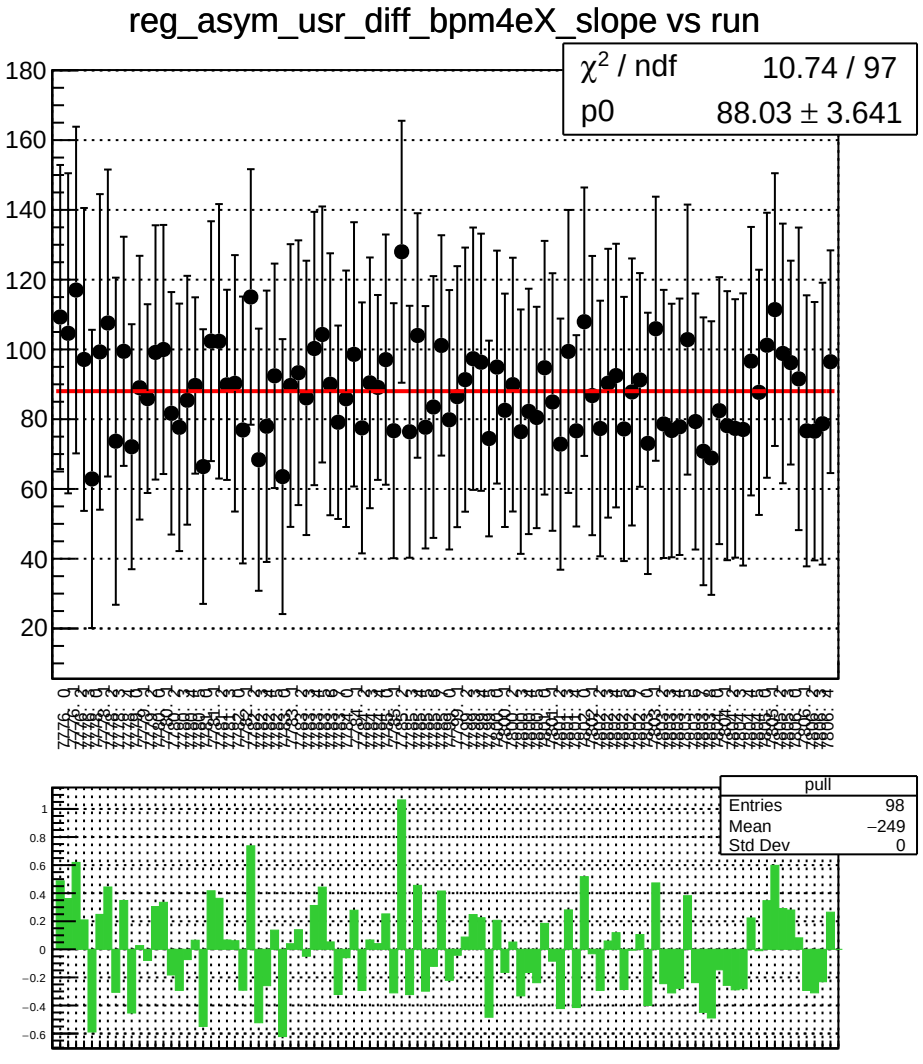

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 557.8 / 97
p0 −40.73 ± 0.08763
−34
−36
−38
−40
−42
−44
pull
Entries 98
Mean 1557
Std Dev 0
10
8
6
4
2
0
−2

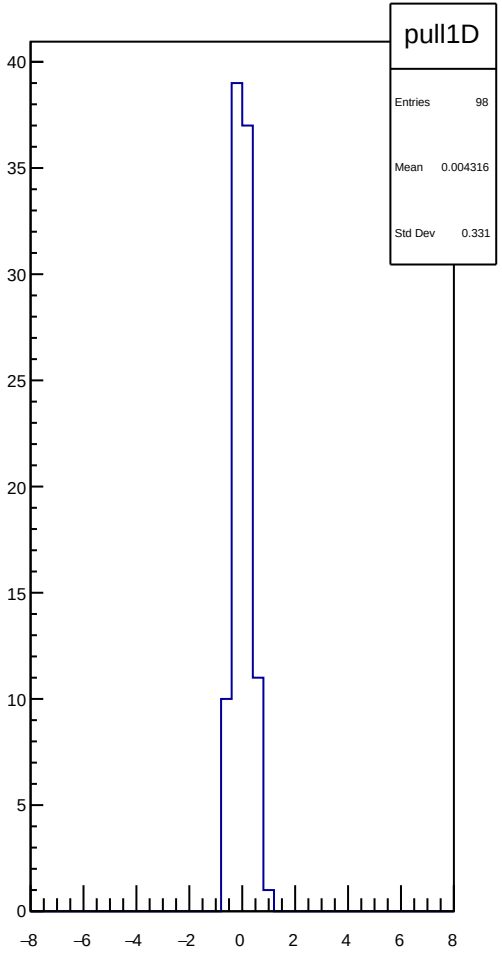

pull1D
Entries 98
Mean −0.127
Std Dev 2.158
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

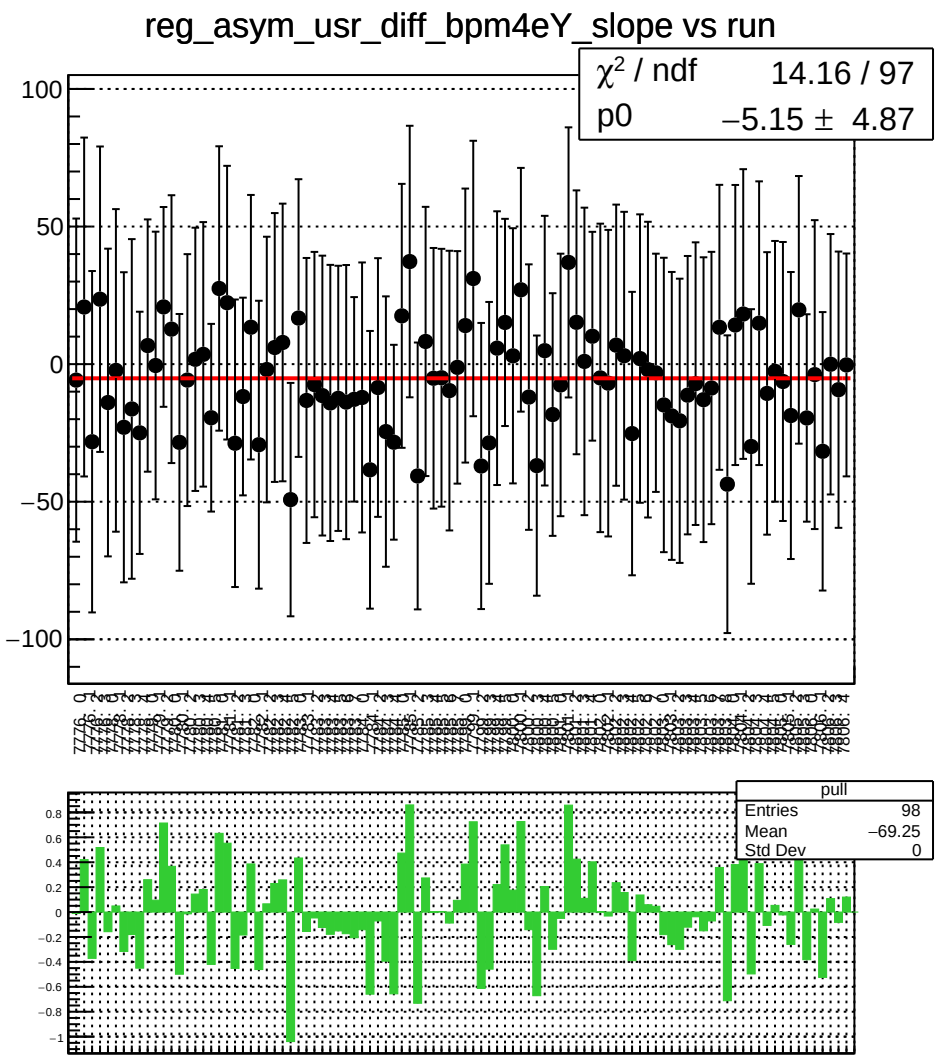

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 10.43 / 97
p0 −28.45 ± 4.186
pull
Entries 98
Mean −315.8
Std Dev 0
pull1D
Entries 98
Mean −0.00235
Std Dev 0.3262

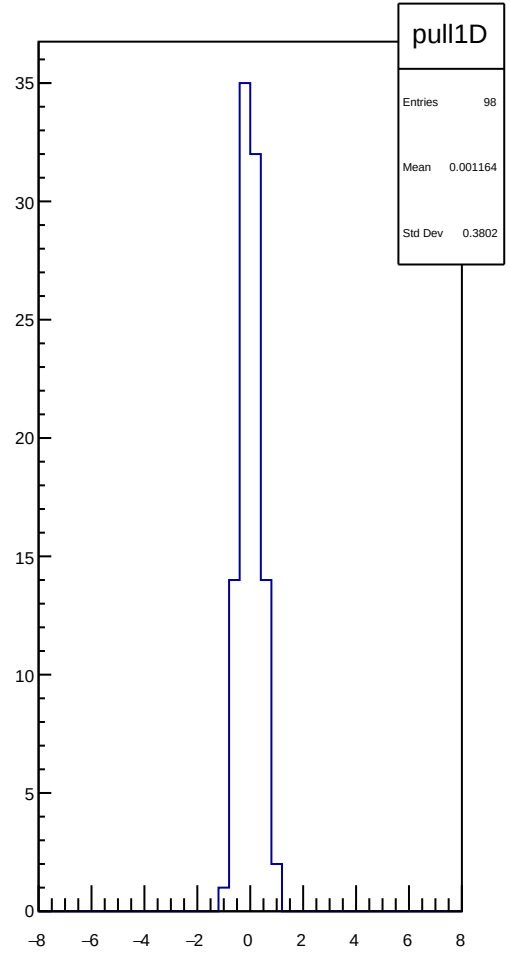

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 14.59 / 97
p0 20.44 ± 4.305
pull
Entries 98
Mean −180.7
Std Dev 0

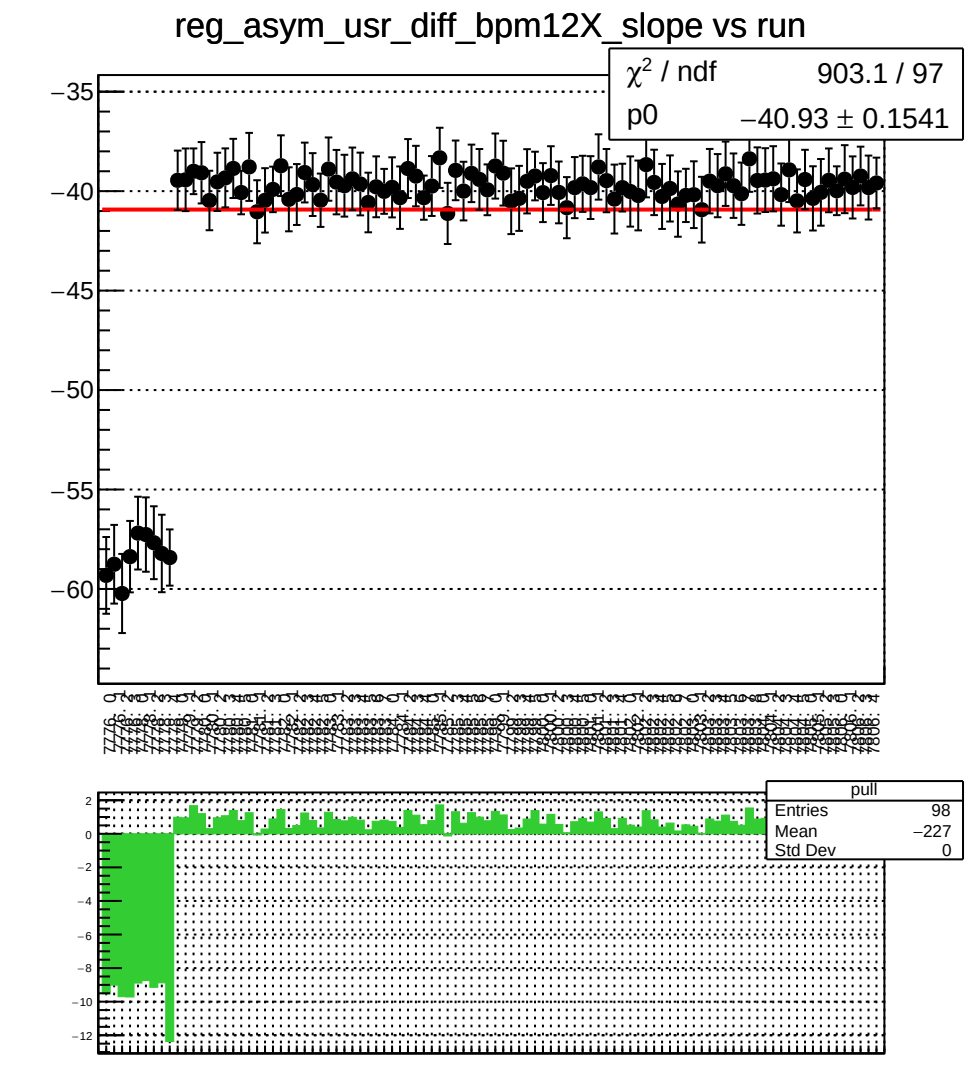

pull1D
Entries 98
Mean 0.002267
Std Dev 0.3859

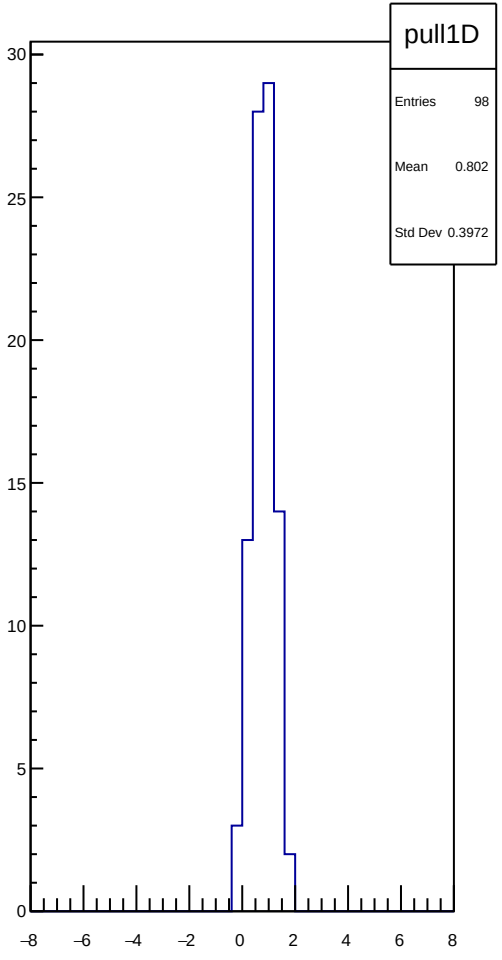

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 10.74 / 97
p0 88.03 ± 3.641
pull
Entries 98
Mean −249
Std Dev 0

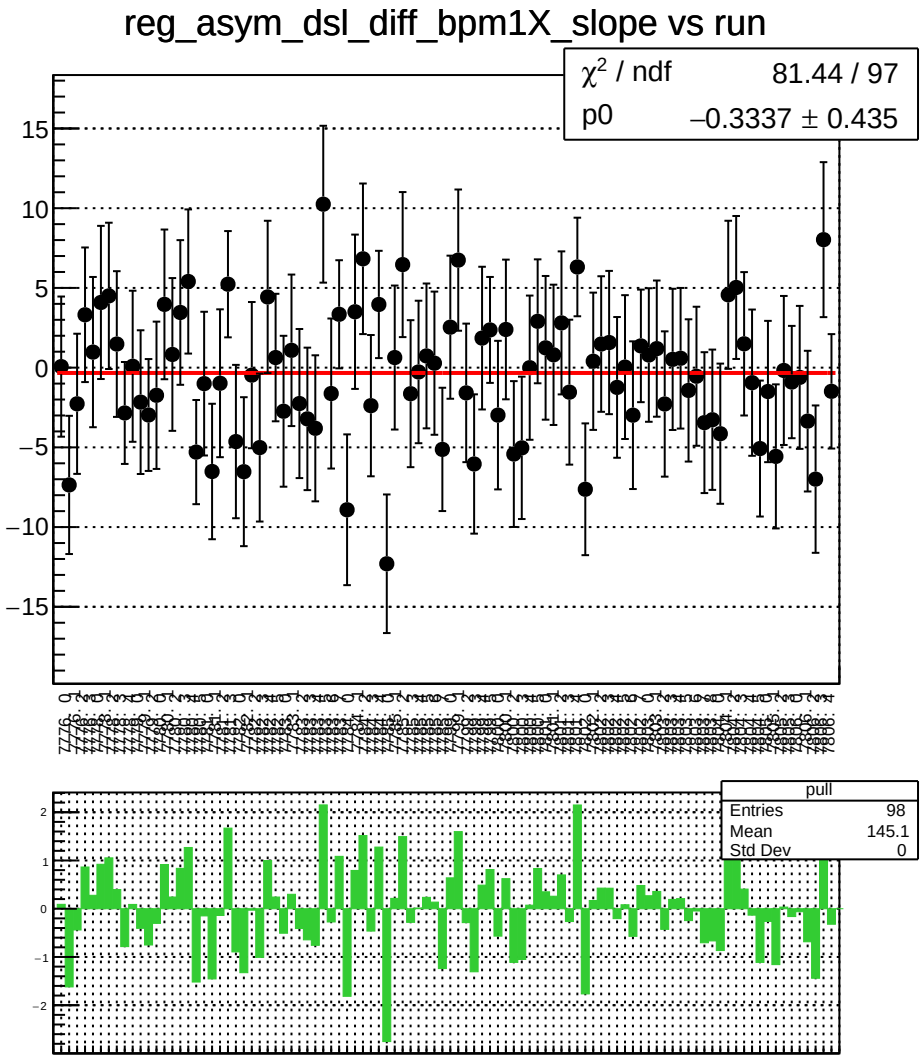

pull1D
Entries 98
Mean 0.004316
Std Dev 0.331

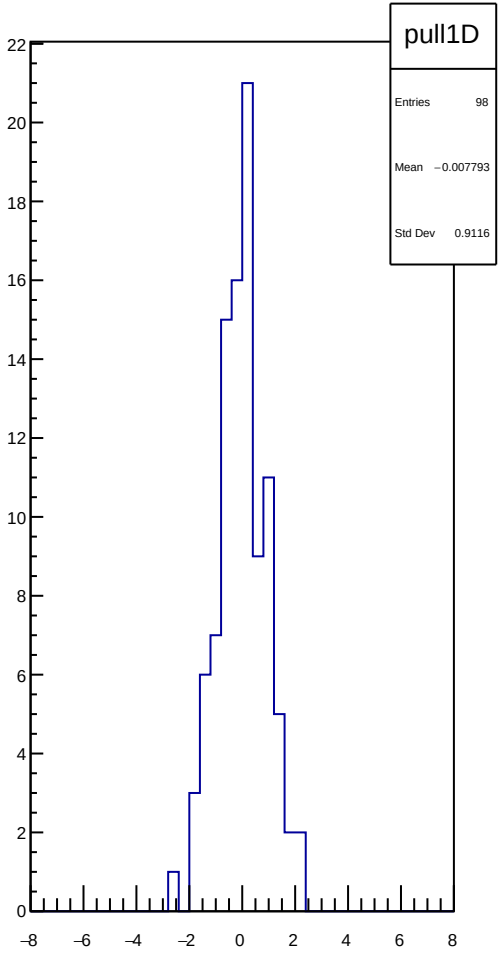

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 14.16 / 97
p0 −5.15 ± 4.87
pull
Entries 98
Mean −69.25
Std Dev 0

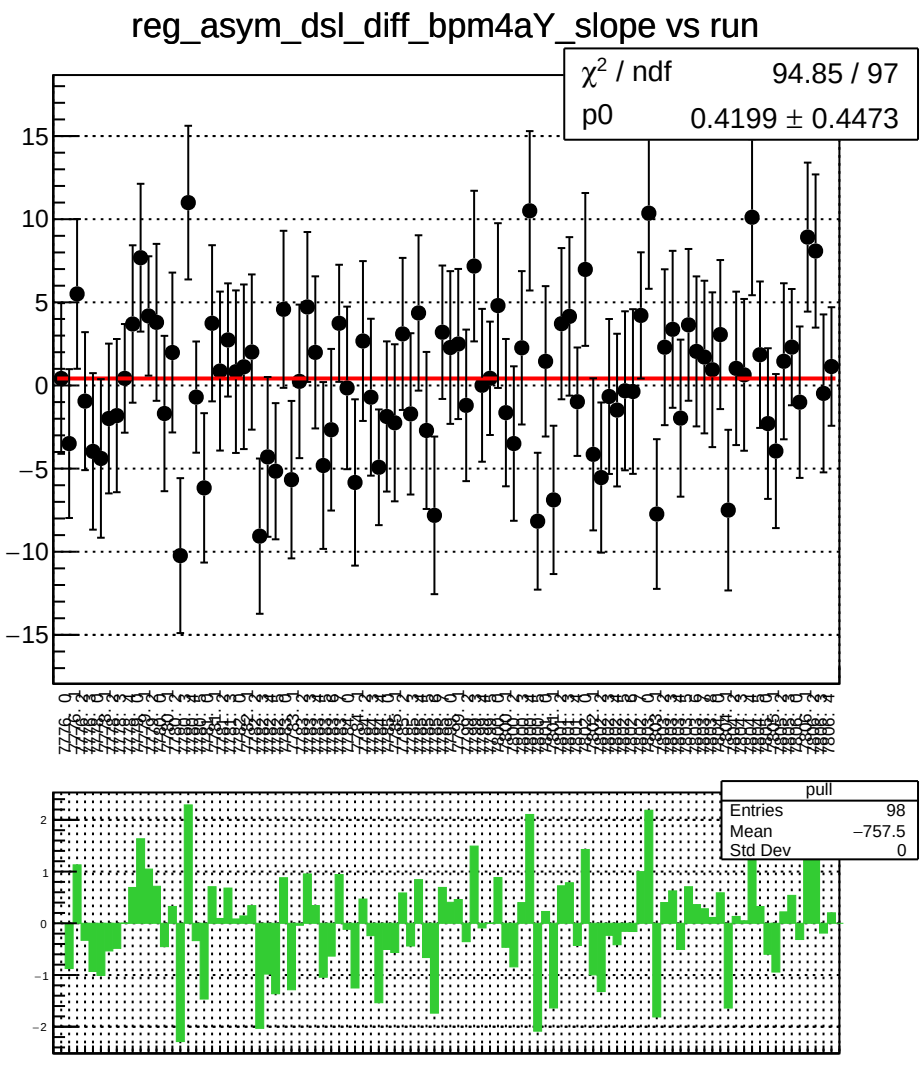

pull1D
Entries 98
Mean 0.001164
Std Dev 0.3802

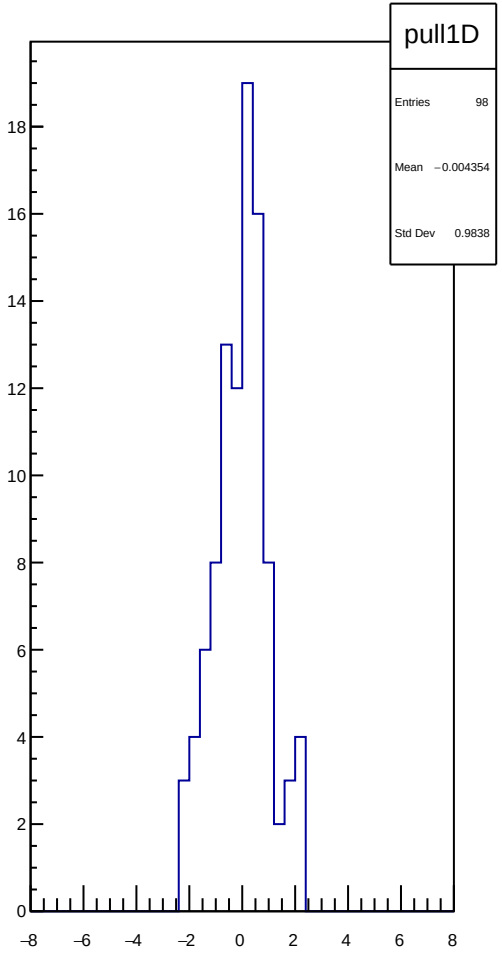

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 903.1 / 97
p0 −40.93 ± 0.1541
pull
Entries 98
Mean −227
Std Dev 0

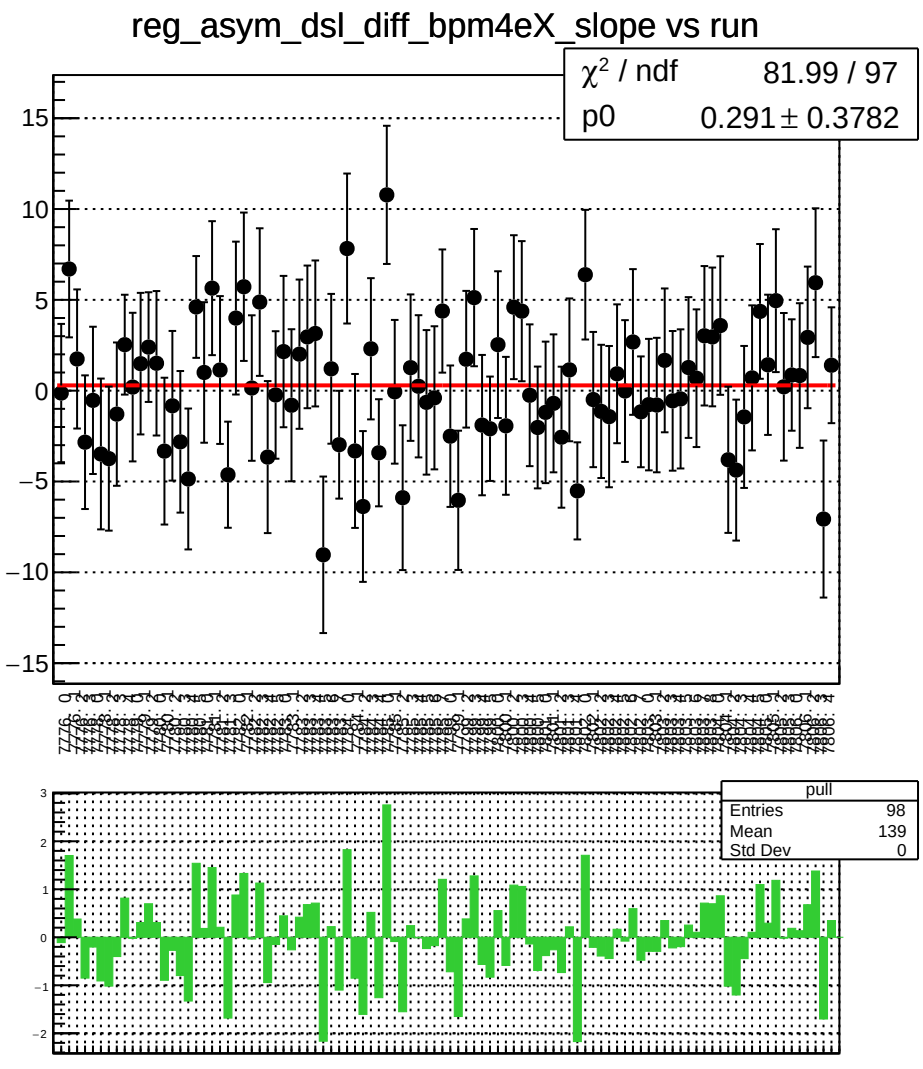

pull1D
Entries 98
Mean 0.802
Std Dev 0.3972

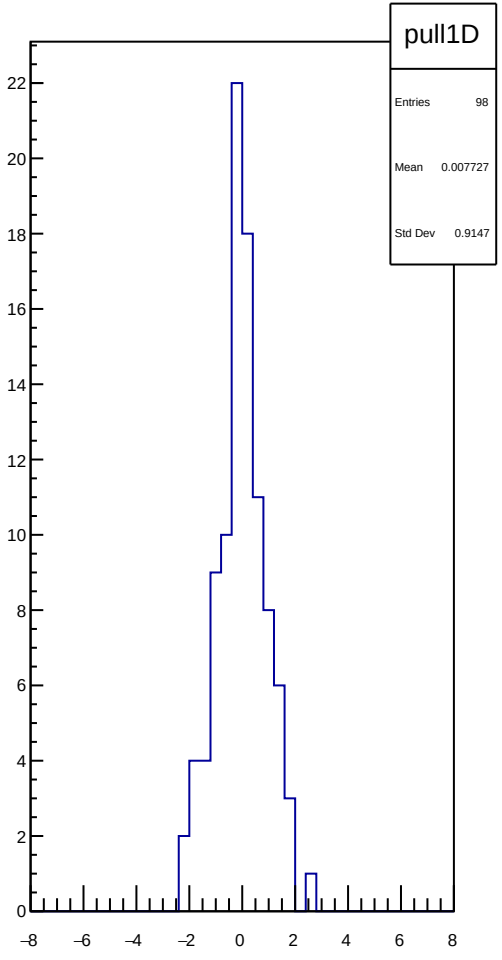

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 81.44 / 97
p0 −0.3337 ± 0.435
pull
Entries 98
Mean 145.1
Std Dev 0

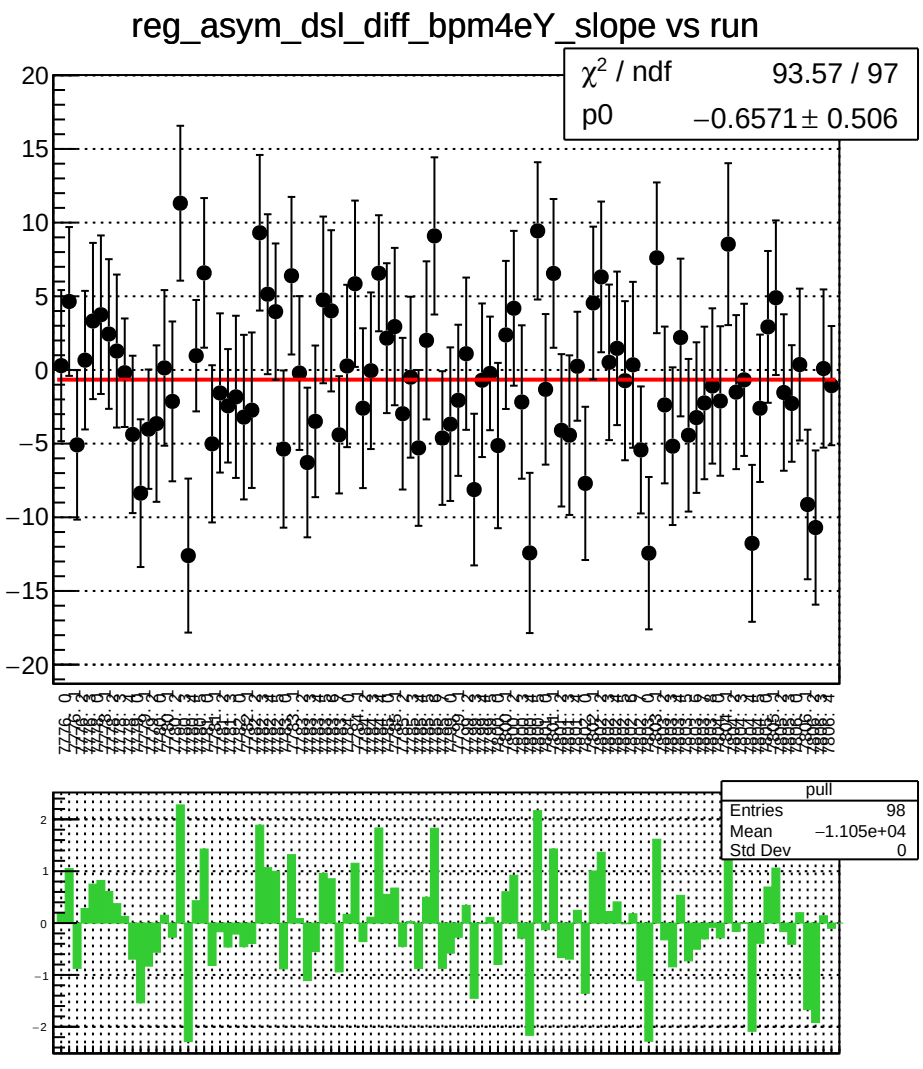

pull1D
Entries 98
Mean −0.007793
Std Dev 0.9116

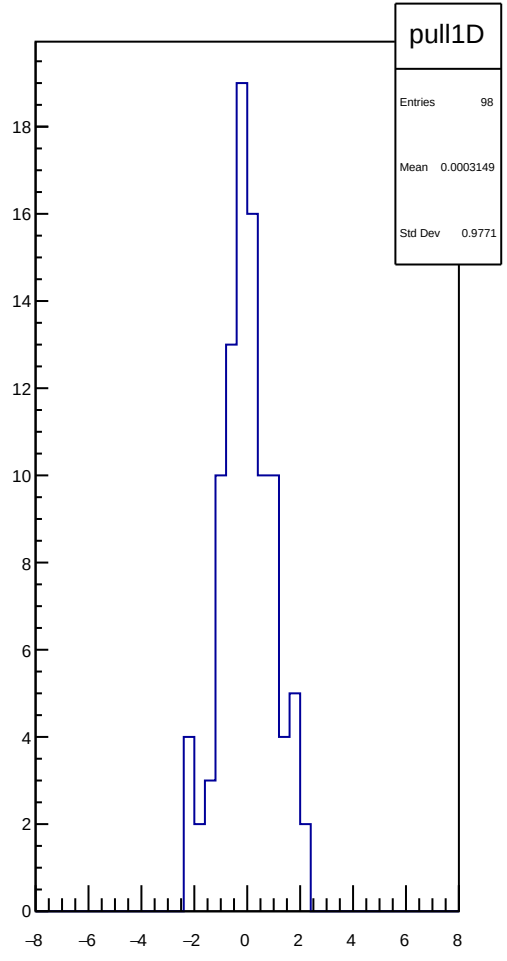

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 94.85 / 97
p0 0.4199 ± 0.4473
pull
Entries 98
Mean −757.5
Std Dev 0

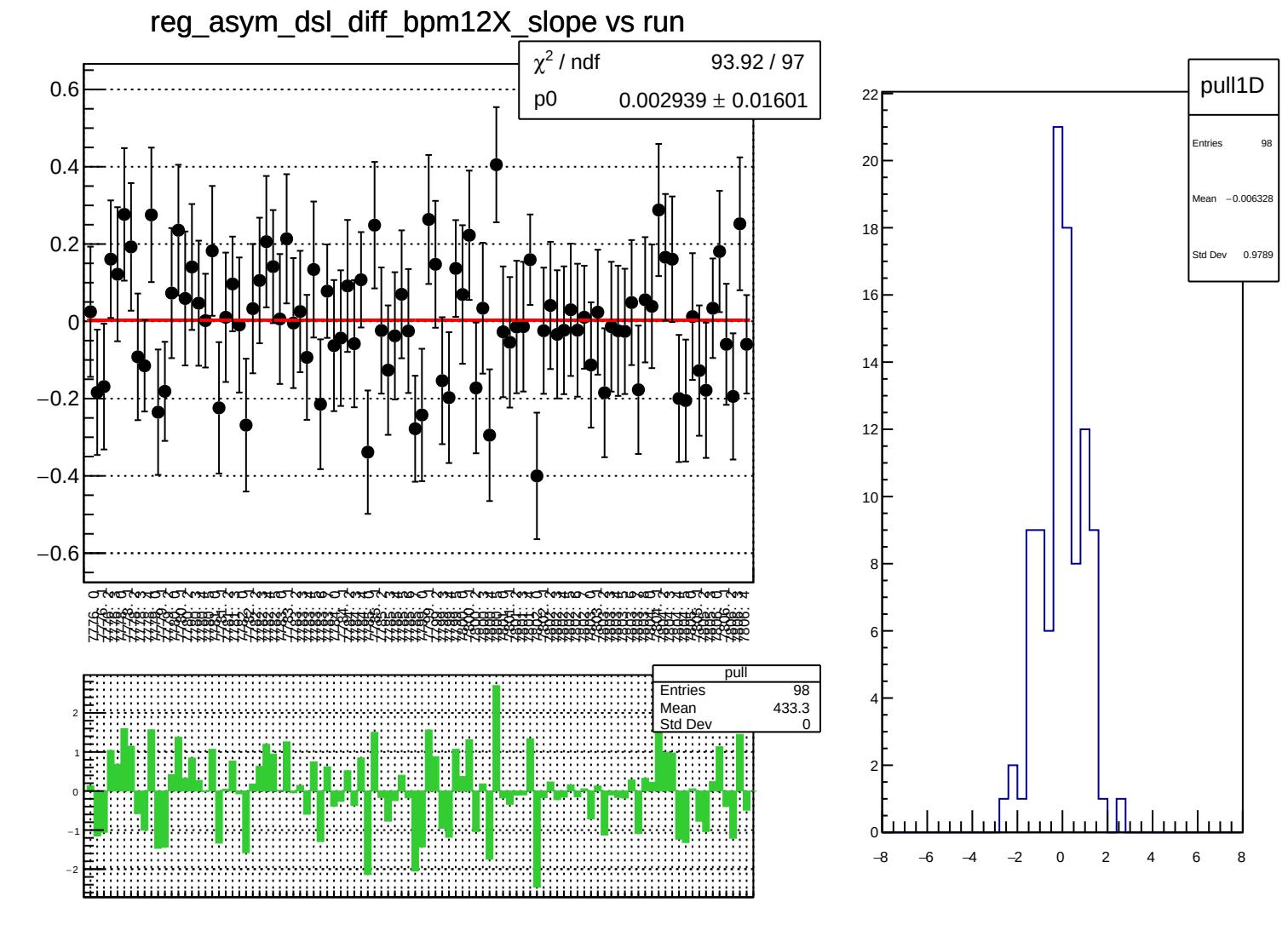

pull1D
Entries 98
Mean −0.004354
Std Dev 0.9838

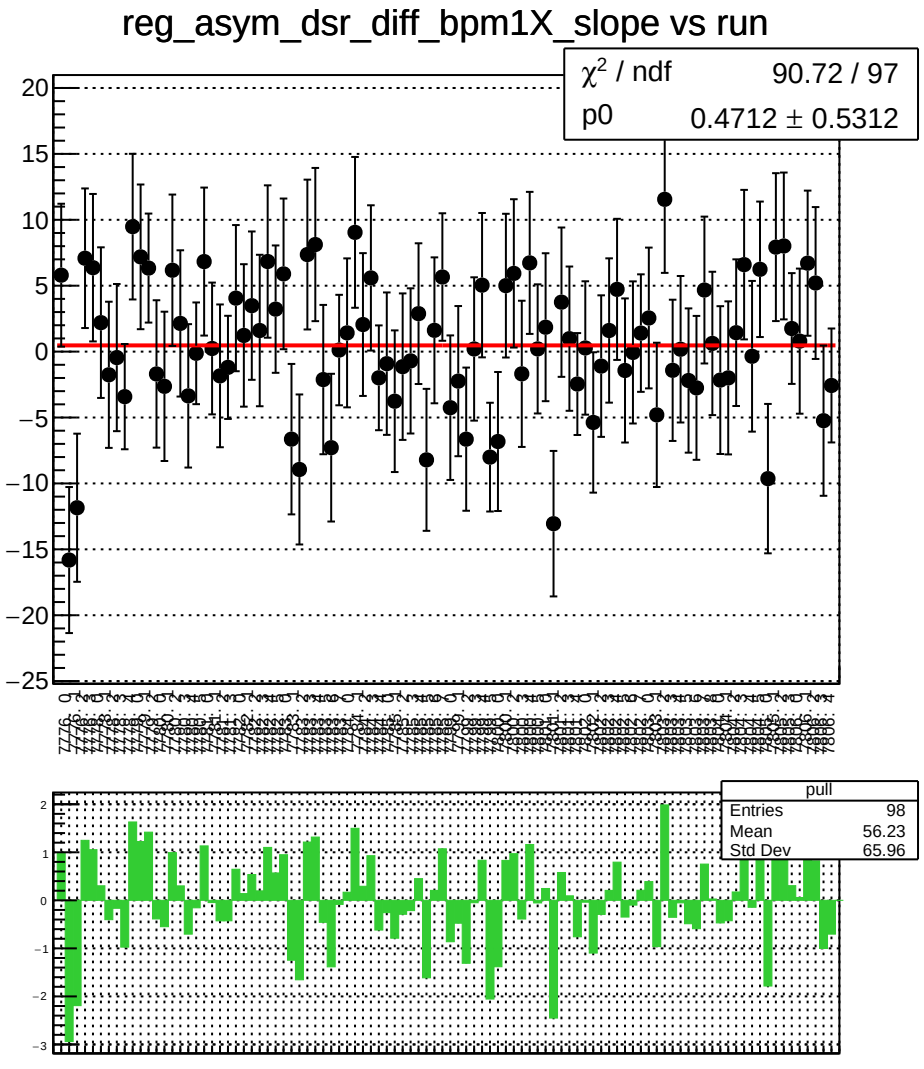

reg_asym_dsl_diff_bpm4eX_slope vs run
χ^2 / ndf 81.99 / 97
p0 0.291 ± 0.3782
pull
Entries 98
Mean 139
Std Dev 0

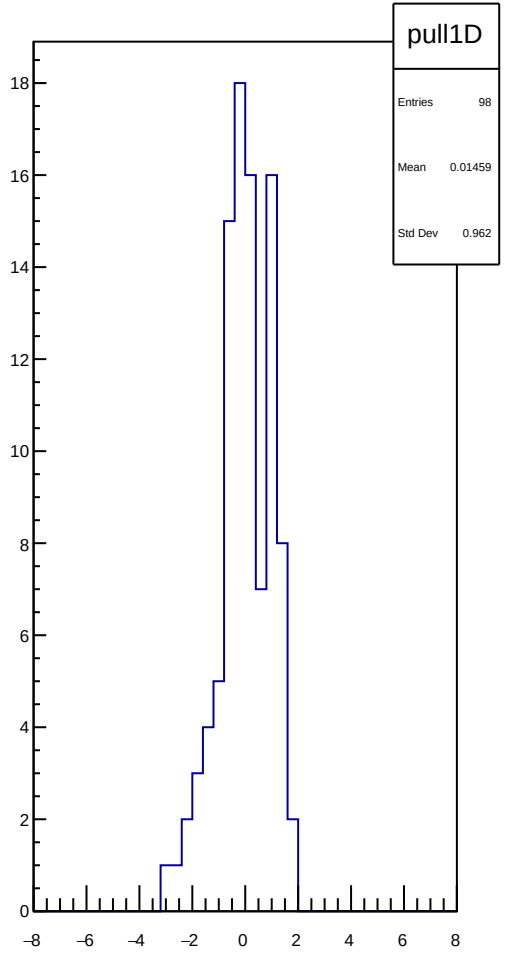

pull1D
Entries 98
Mean 0.007727
Std Dev 0.9147

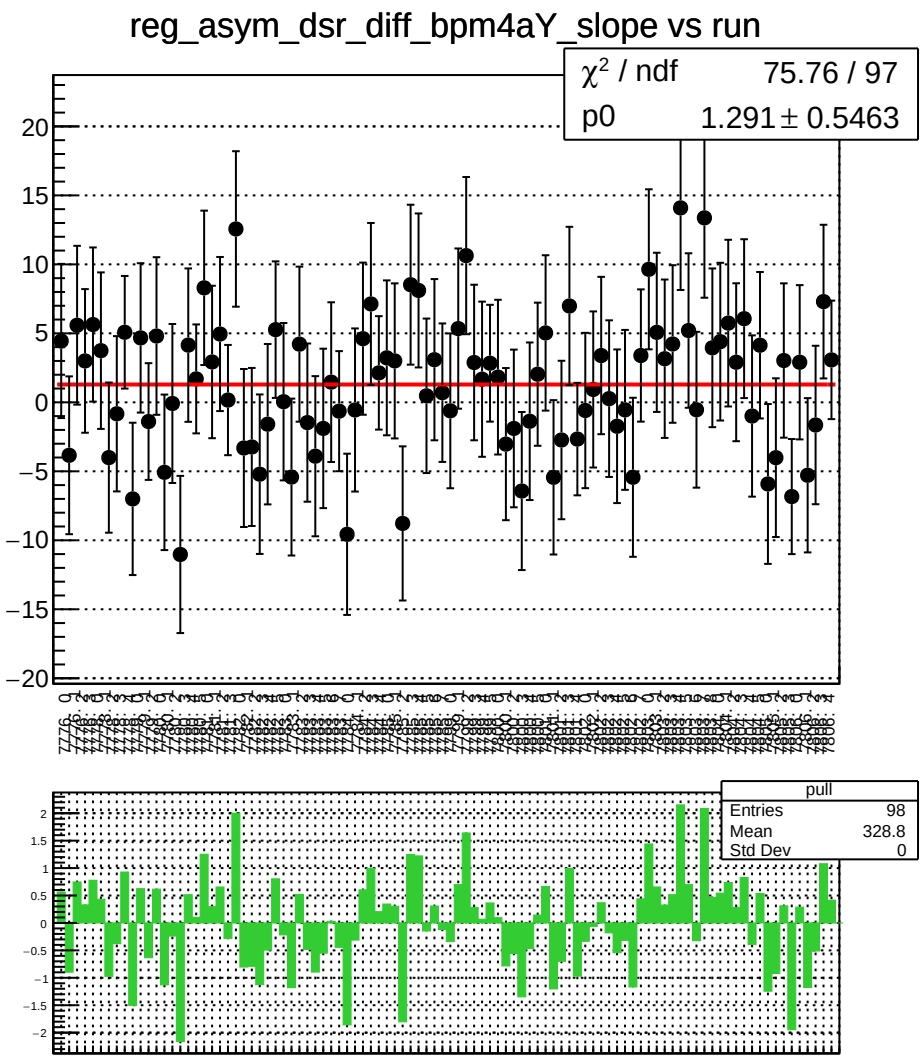

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 93.57 / 97
p0 −0.6571 ± 0.506
pull
Entries 98
Mean −1.105e+04
Std Dev 0

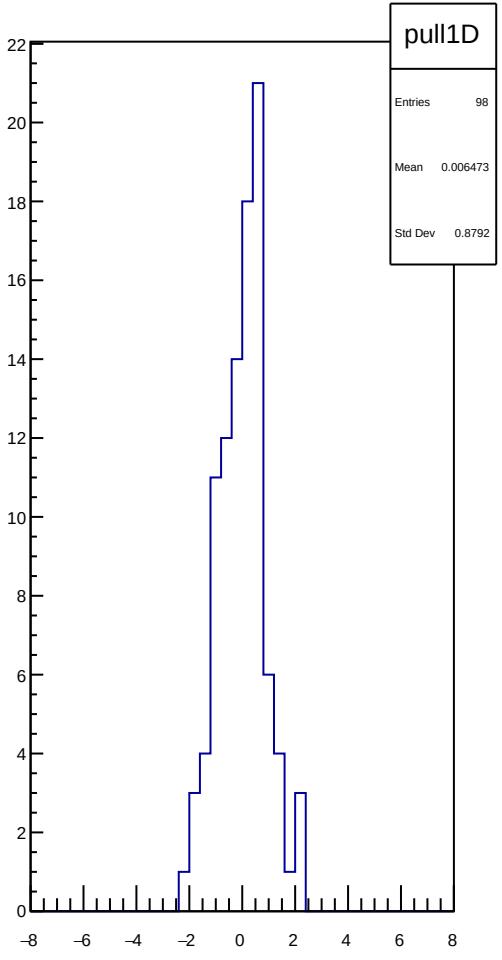

pull1D
Entries 98
Mean 0.0003149
Std Dev 0.9771

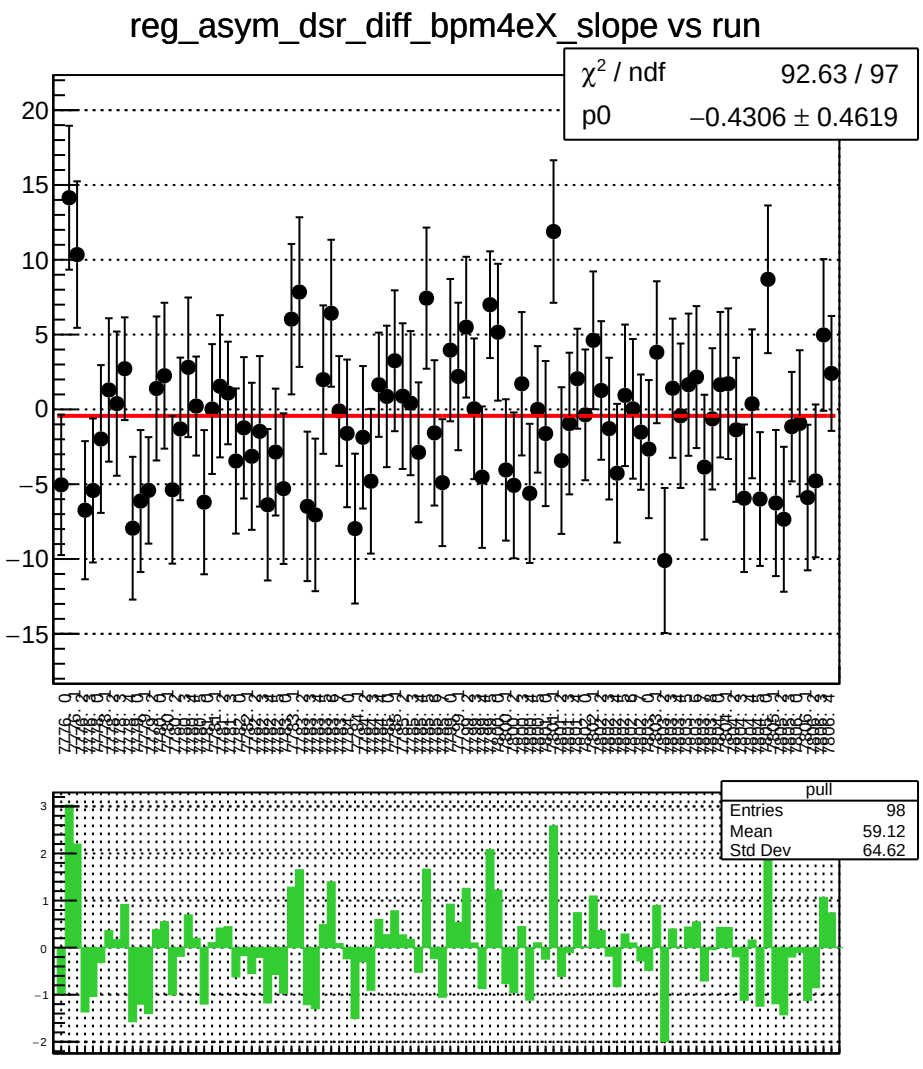

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 93.92 / 97
p0 0.002939 ± 0.01601
pull
Entries 98
Mean 433.3
Std Dev 0
pull1D
Entries 98
Mean −0.006328
Std Dev 0.9789

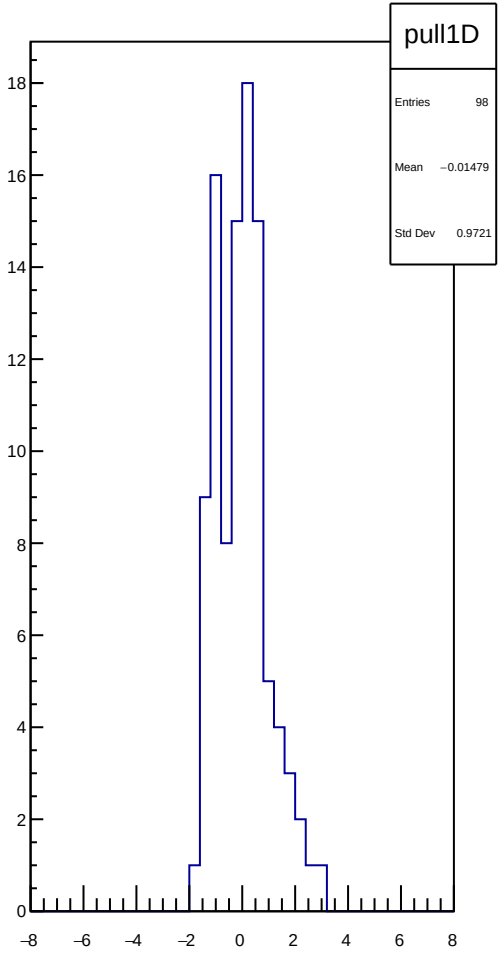

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 90.72 / 97
p0 0.4712 ± 0.5312
pull
Entries 98
Mean 56.23
Std Dev 65.96

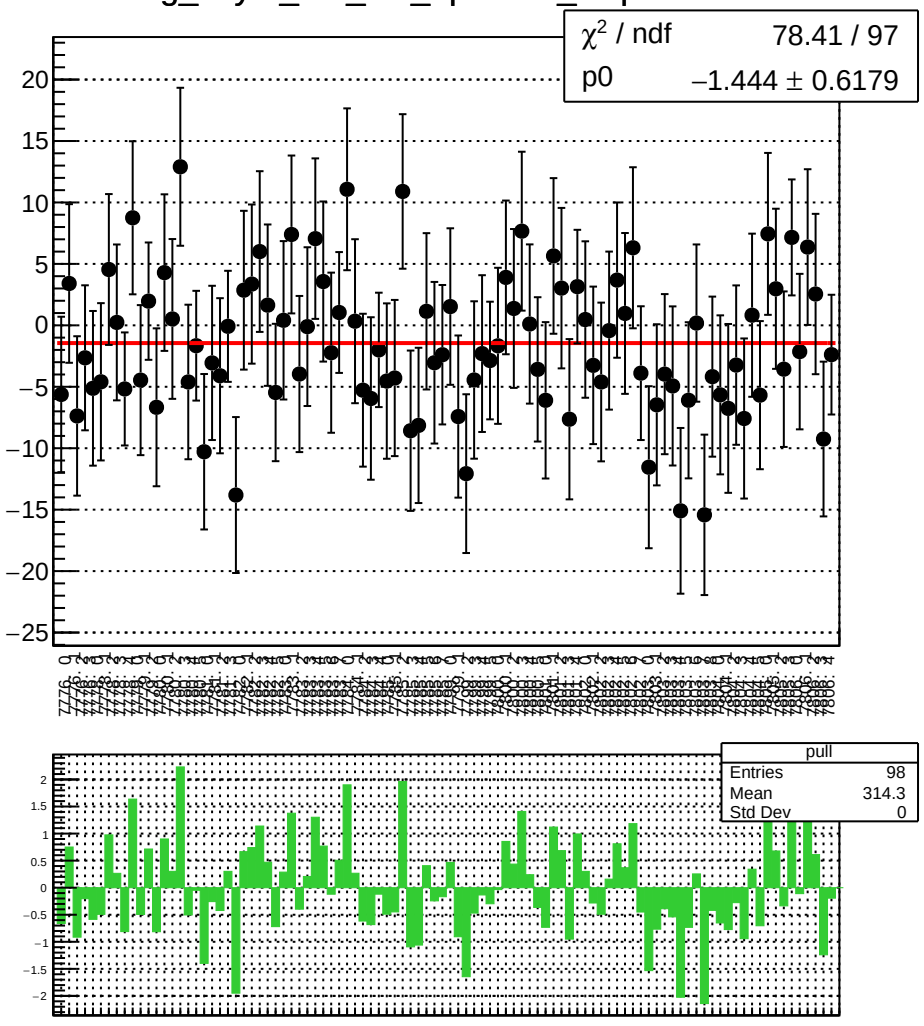

pull1D
Entries 98
Mean 0.01459
Std Dev 0.962

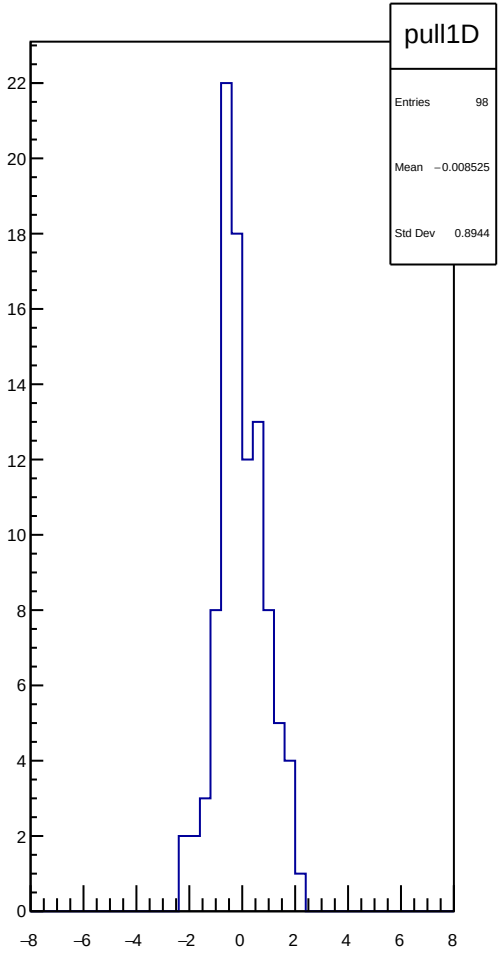

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 75.76 / 97
p0 1.291 ± 0.5463
pull
Entries 98
Mean 328.8
Std Dev 0

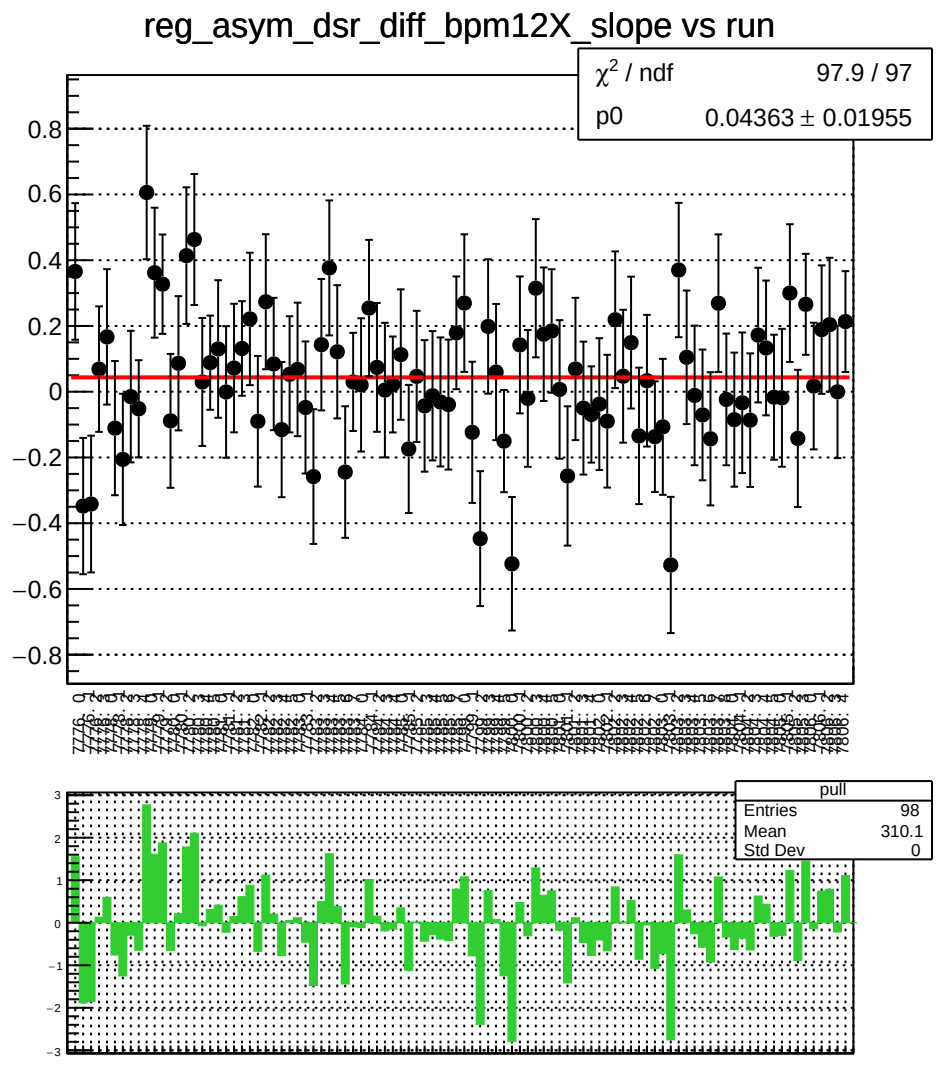

pull1D
Entries 98
Mean 0.006473
Std Dev 0.8792

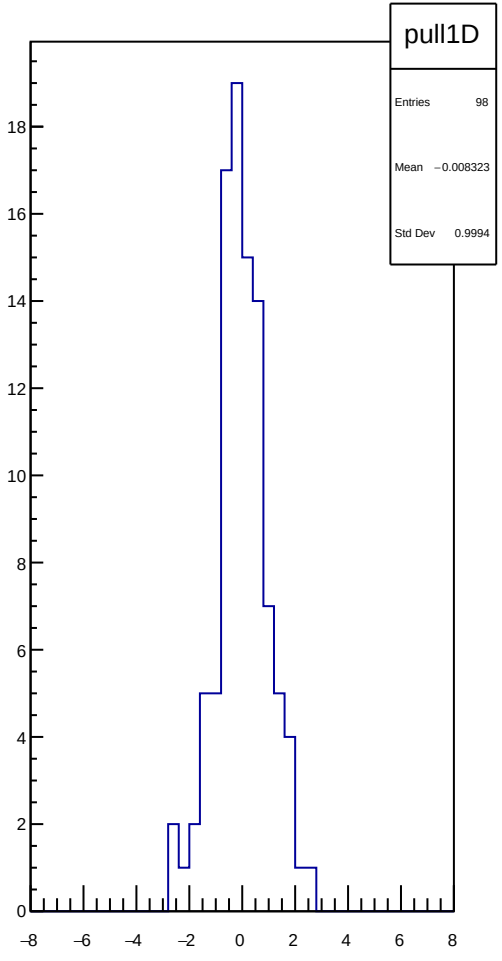

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 92.63 / 97
p0 −0.4306 ± 0.4619
pull
Entries 98
Mean 59.12
Std Dev 64.62

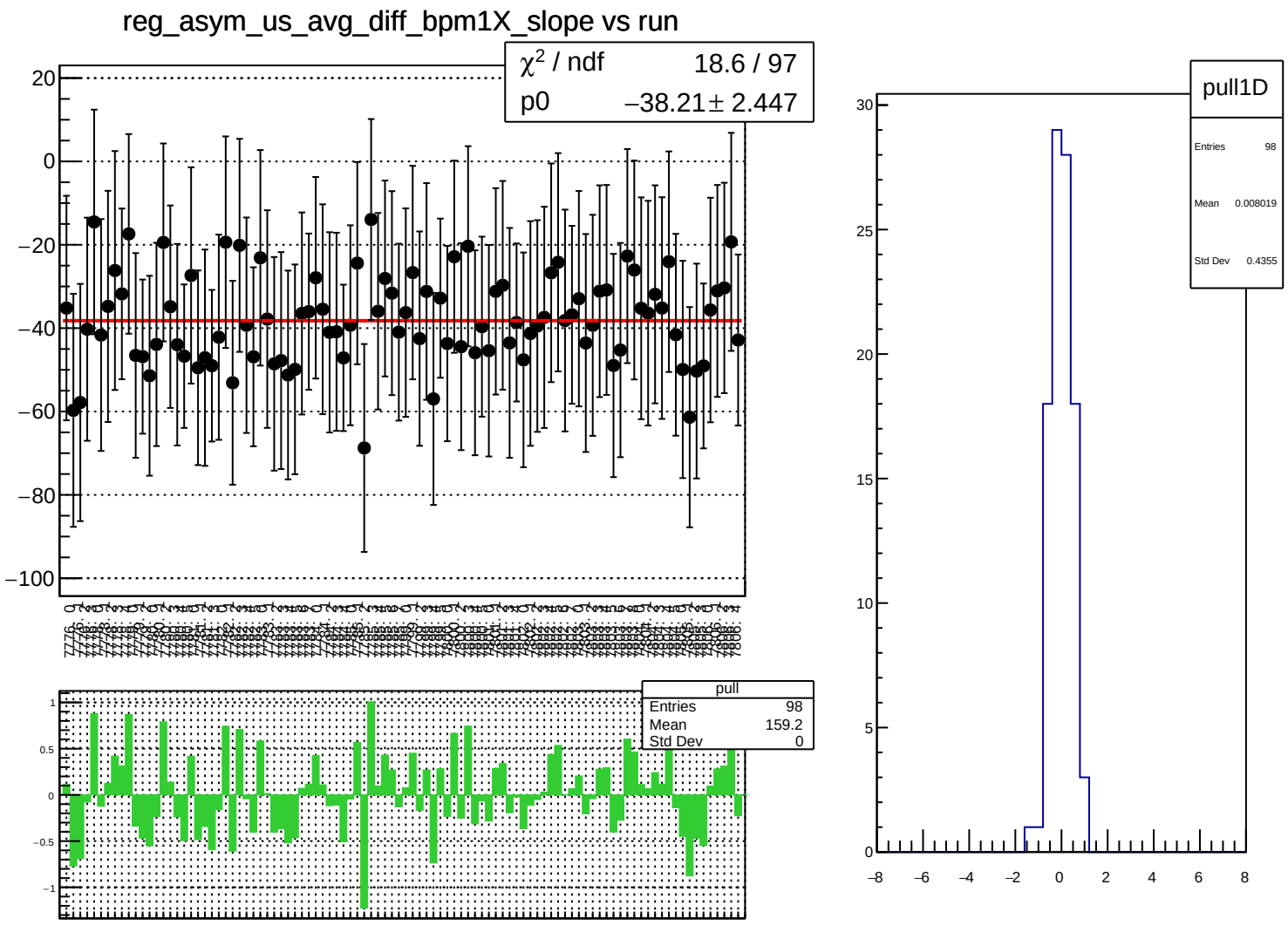

pull1D
Entries 98
Mean −0.01479
Std Dev 0.9721

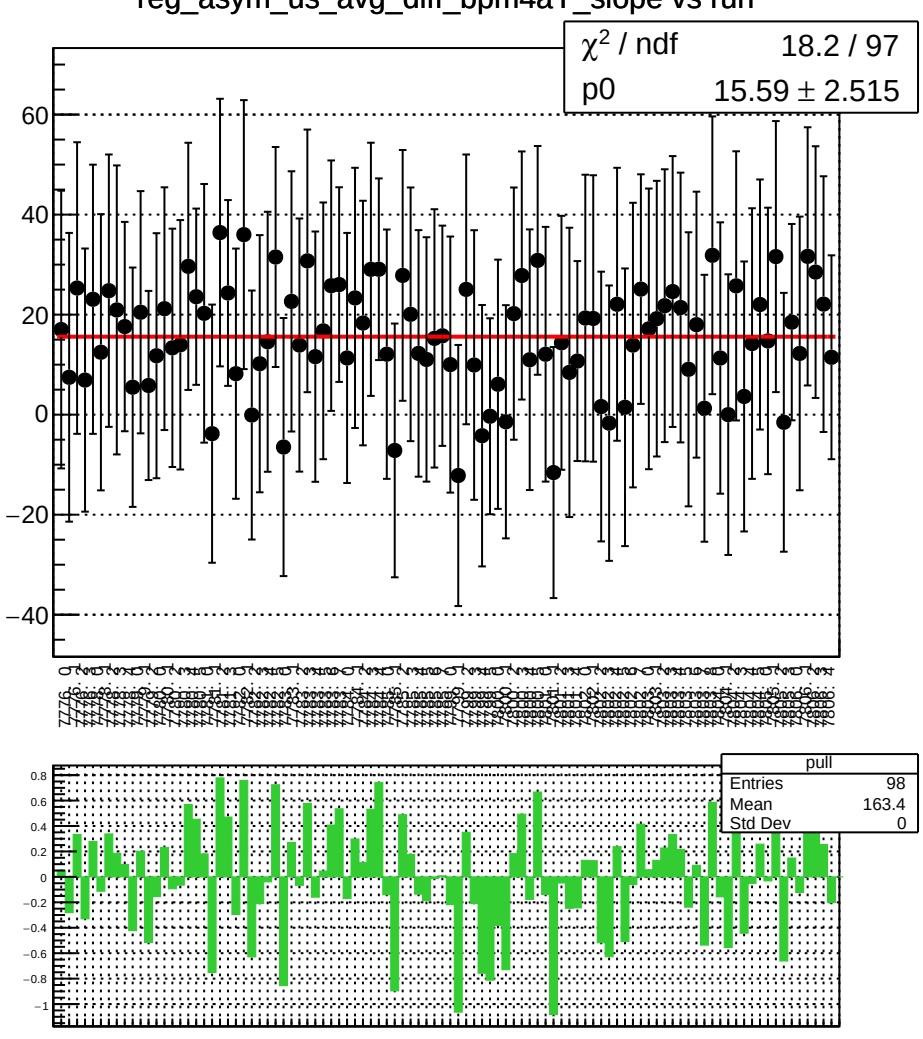

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 78.41 / 97
p0 −1.444 ± 0.6179
pull
Entries 98
Mean 314.3
Std Dev 0

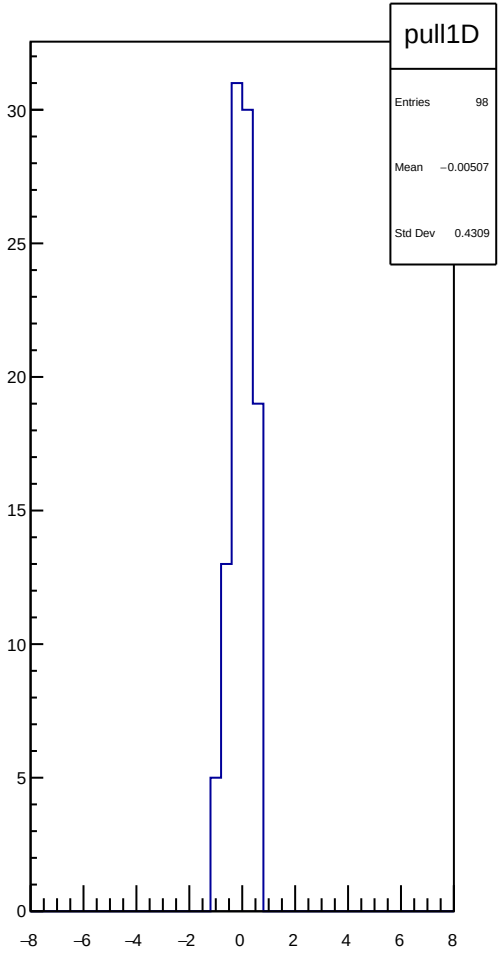

pull1D
Entries 98
Mean −0.008525
Std Dev 0.8944

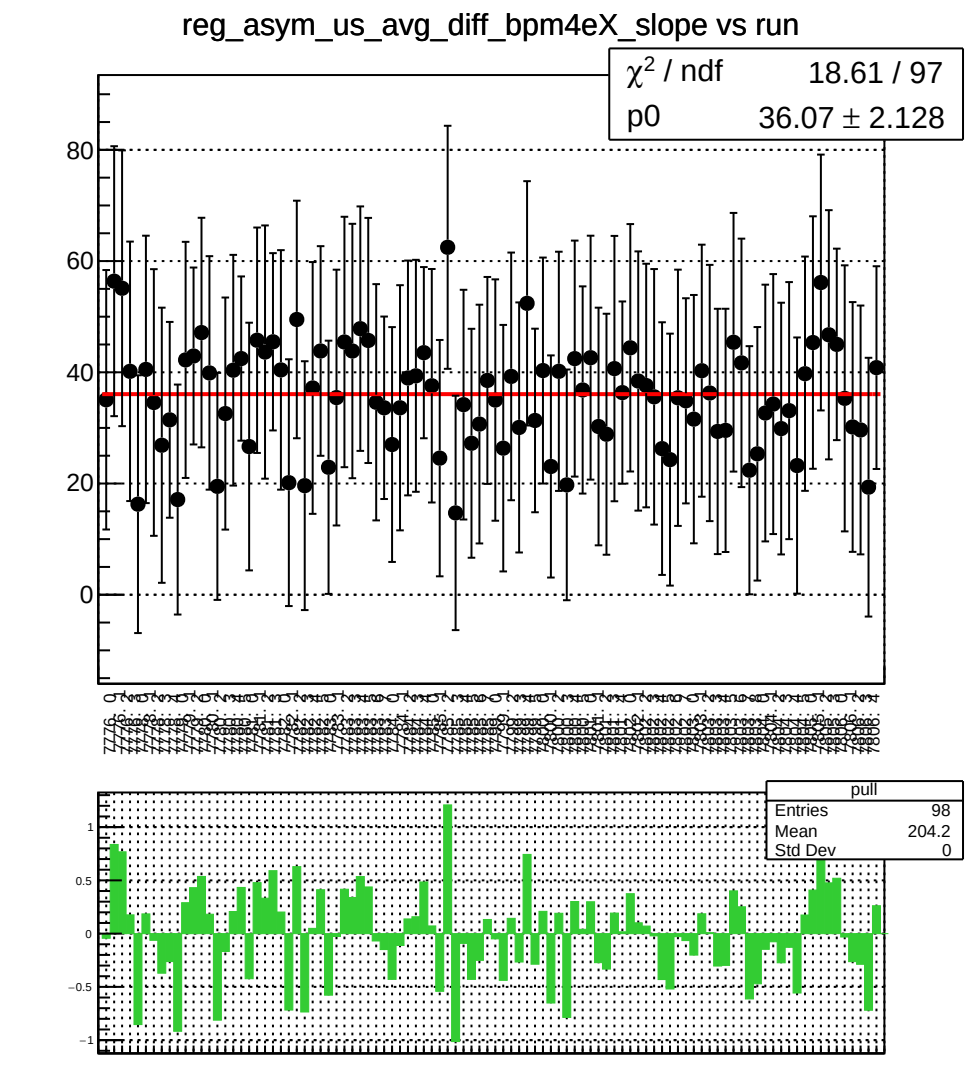

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 97.9 / 97
p0 0.04363 ± 0.01955
pull
Entries 98
Mean 310.1
Std Dev 0

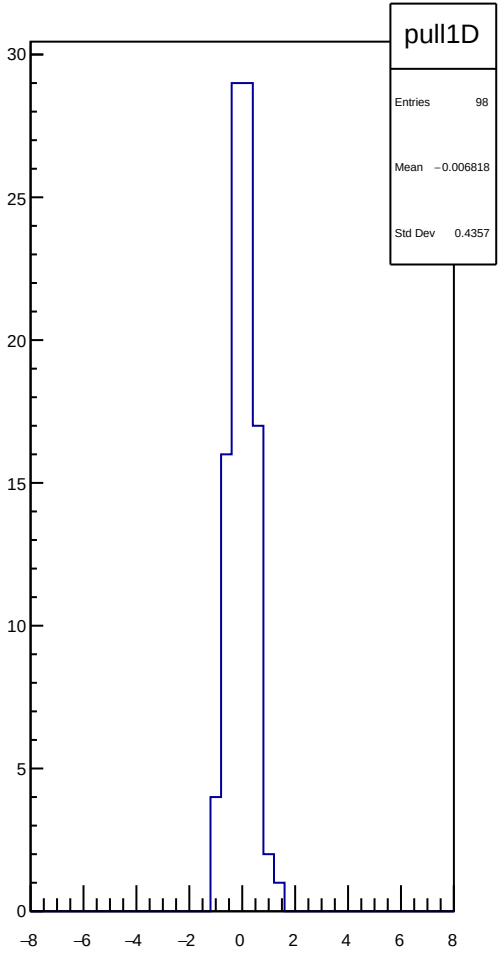

pull1D
Entries 98
Mean −0.008323
Std Dev 0.9994

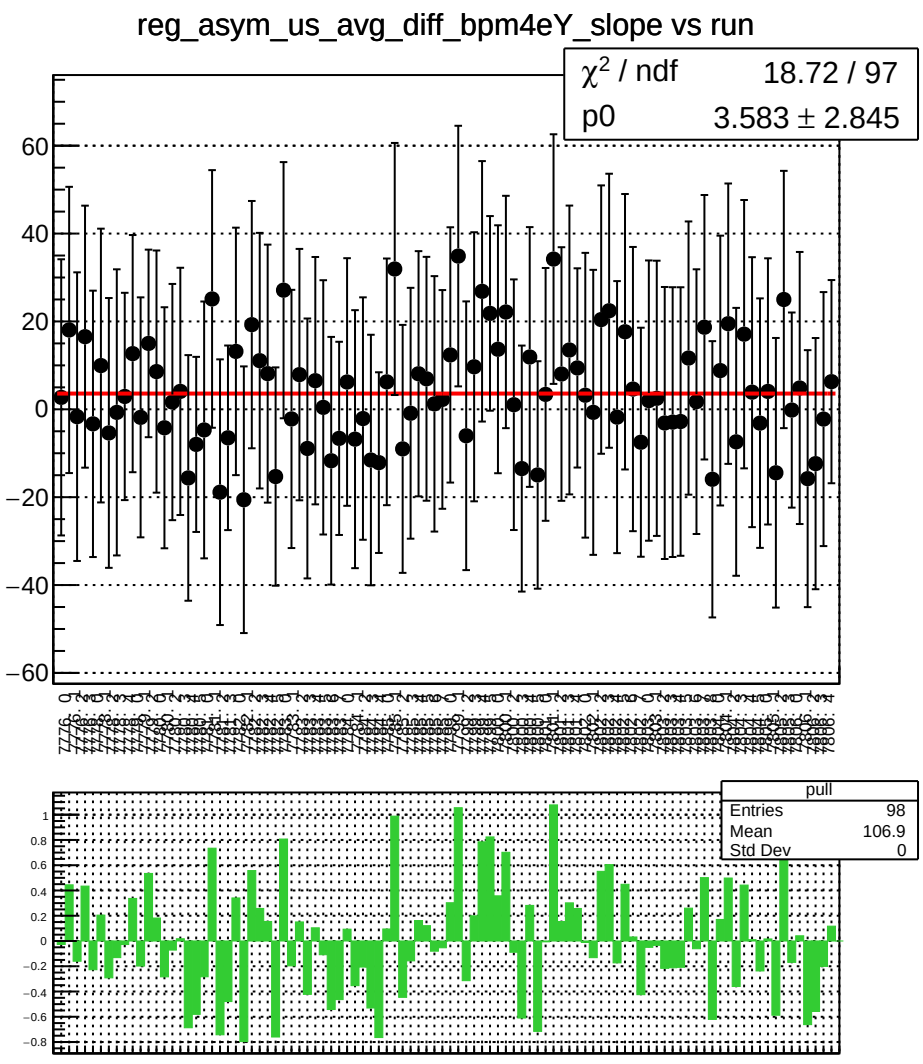

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 18.6 / 97
p0 −38.21± 2.447
pull
Entries 98
Mean 159.2
Std Dev 0
pull1D
Entries 98
Mean 0.008019
Std Dev 0.4355

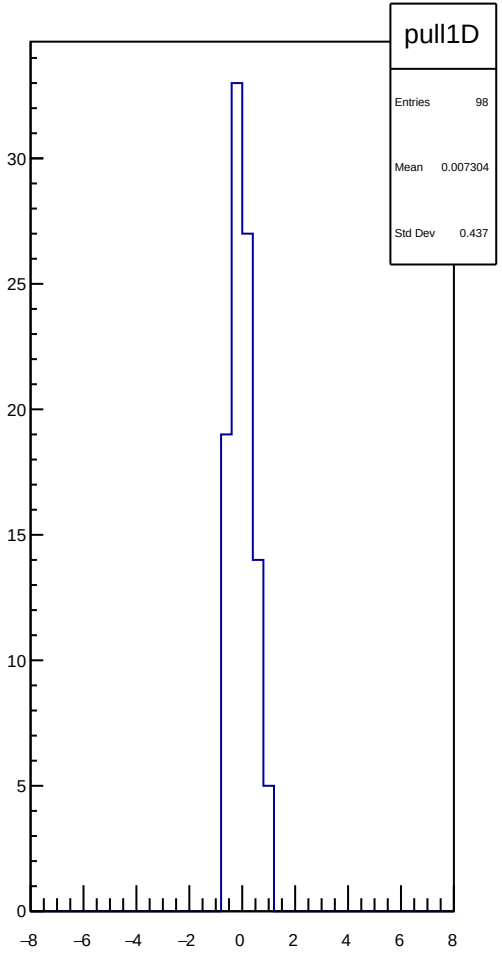

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.2 / 97
p0 15.59 ± 2.515
pull
Entries 98
Mean 163.4
Std Dev 0

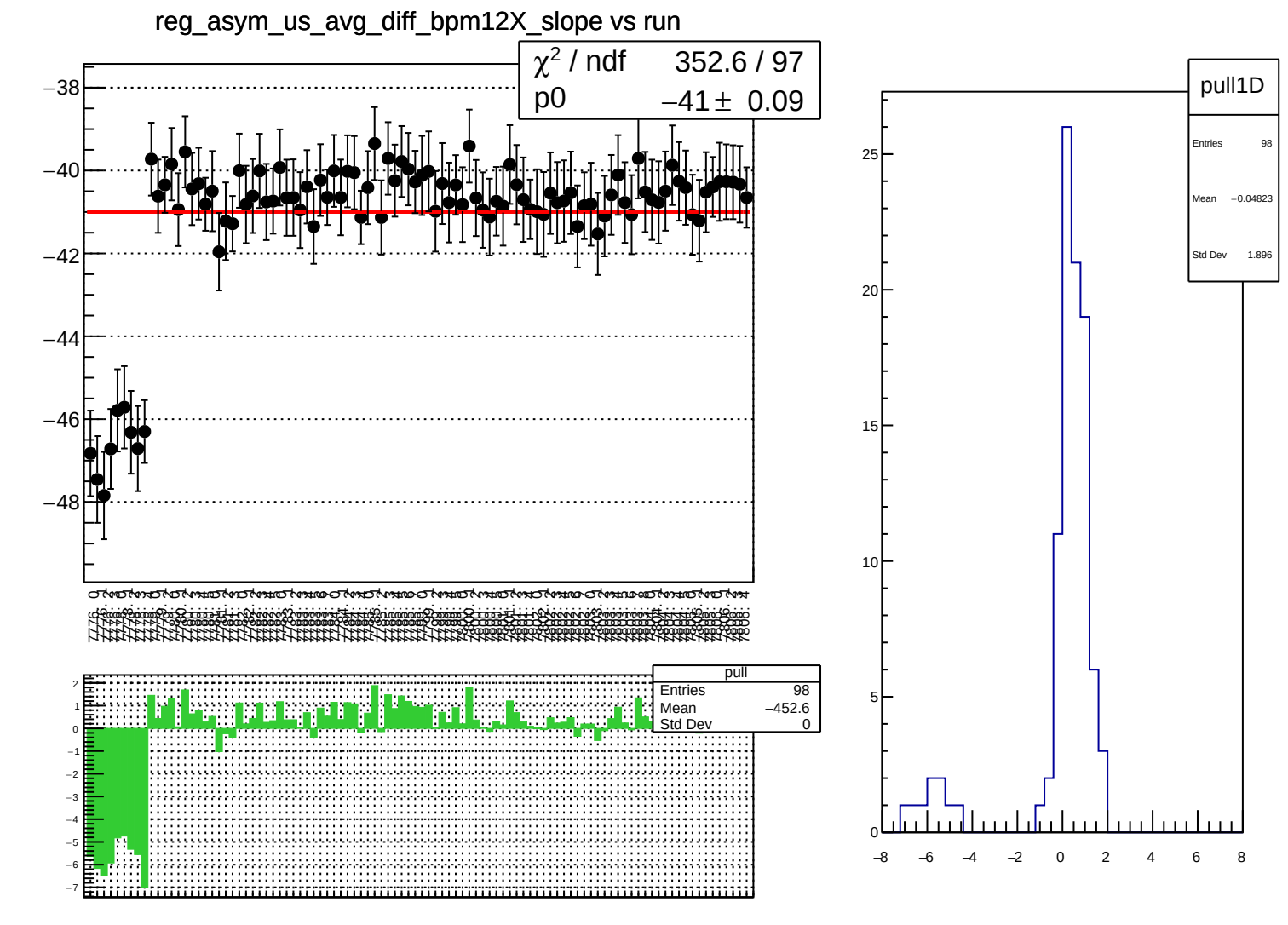

pull1D
Entries 98
Mean −0.00507
Std Dev 0.4309

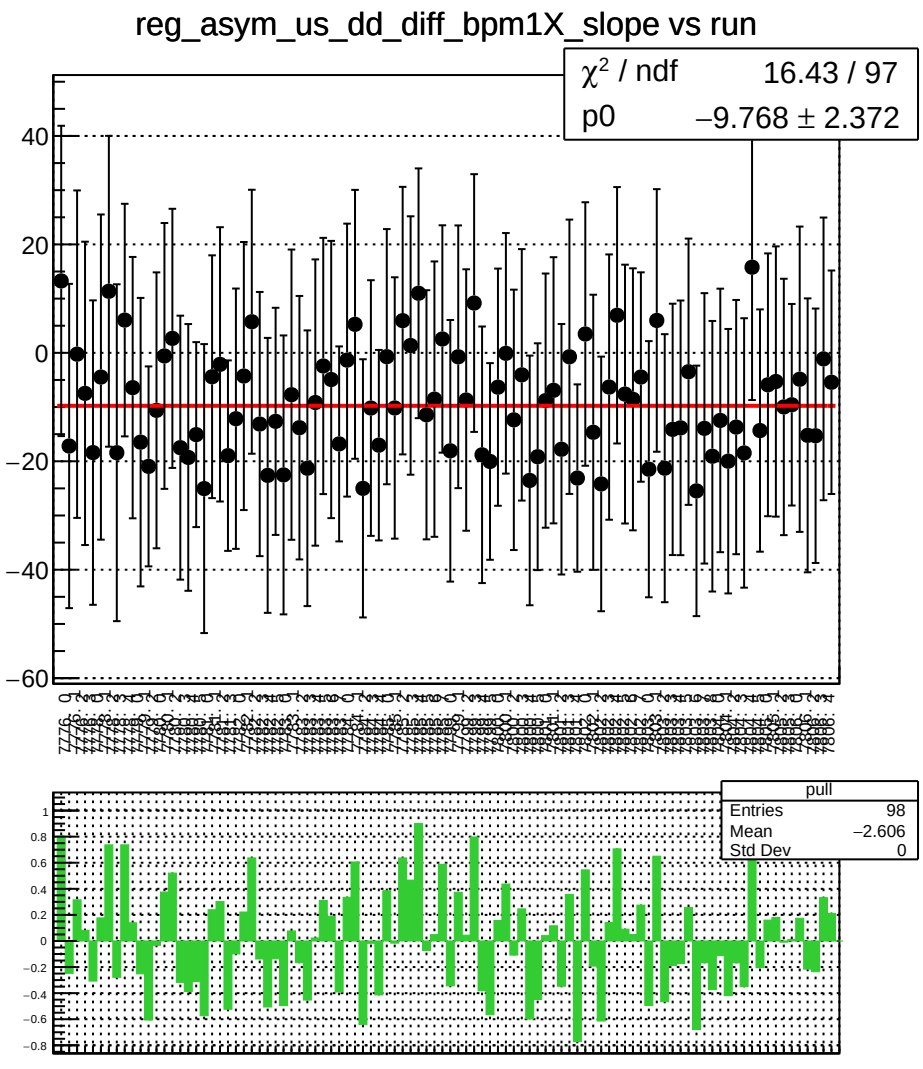

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.61 / 97
p0 36.07 ± 2.128
pull
Entries 98
Mean 204.2
Std Dev 0

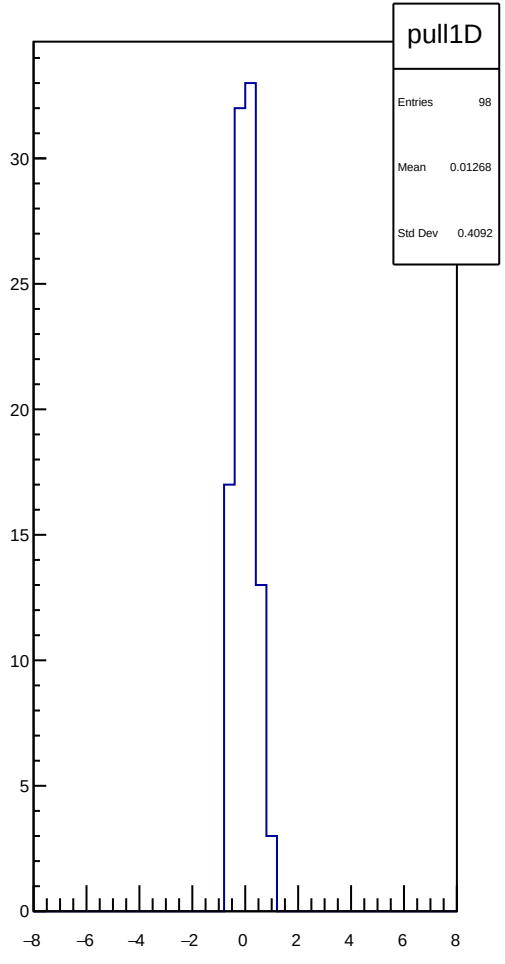

pull1D
Entries 98
Mean −0.006818
Std Dev 0.4357

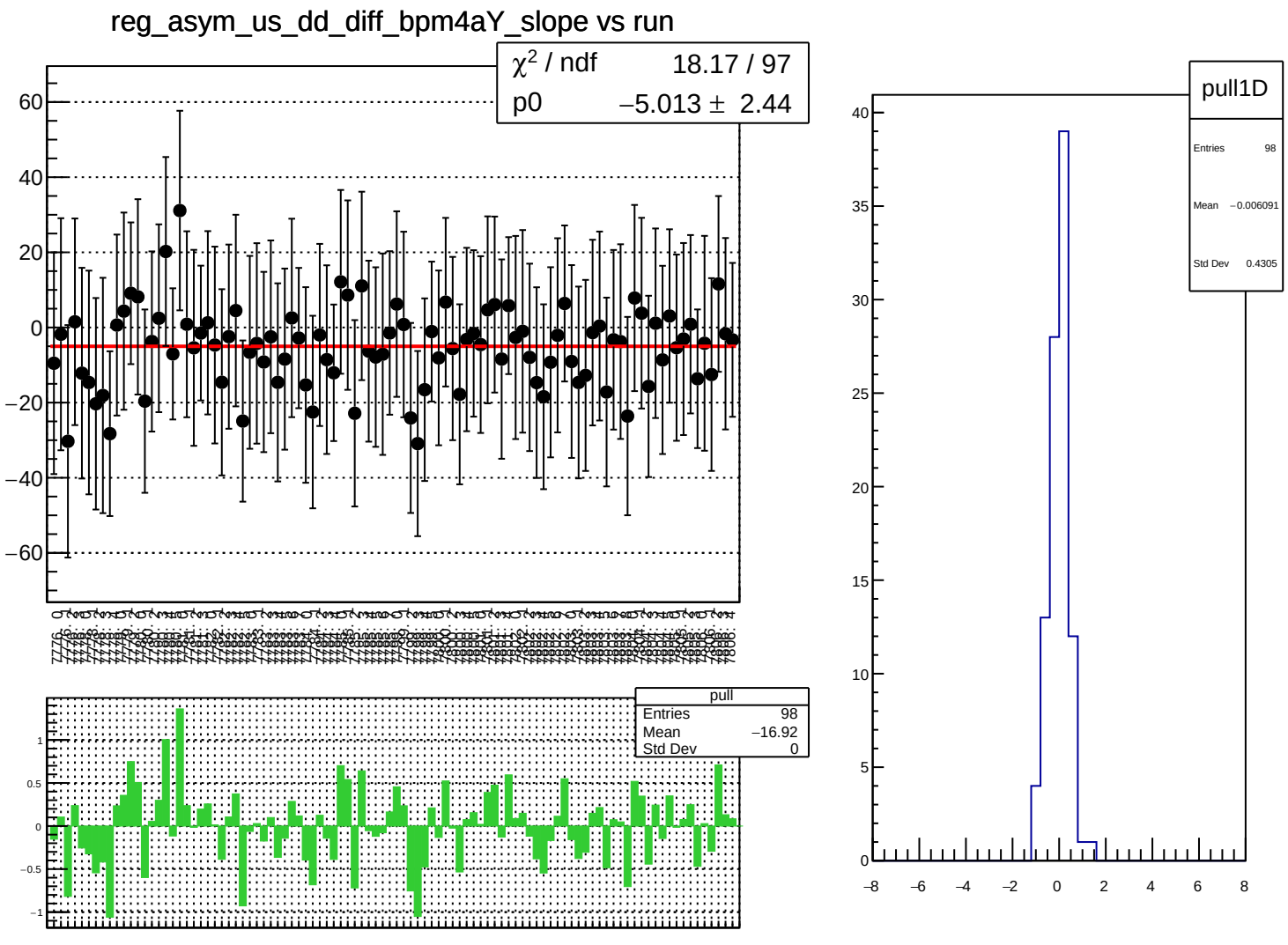

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.72 / 97
p0 3.583 ± 2.845
pull
Entries 98
Mean 106.9
Std Dev 0

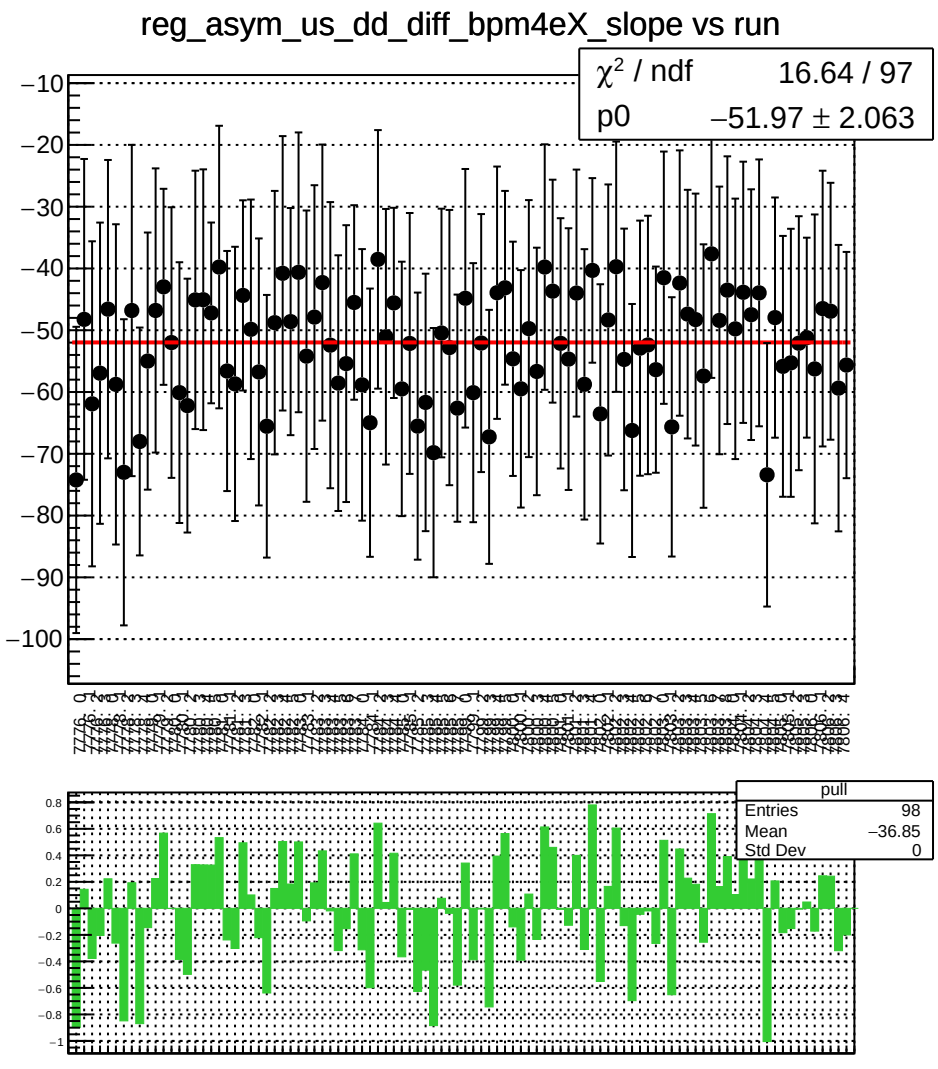

pull1D
Entries 98
Mean 0.007304
Std Dev 0.437

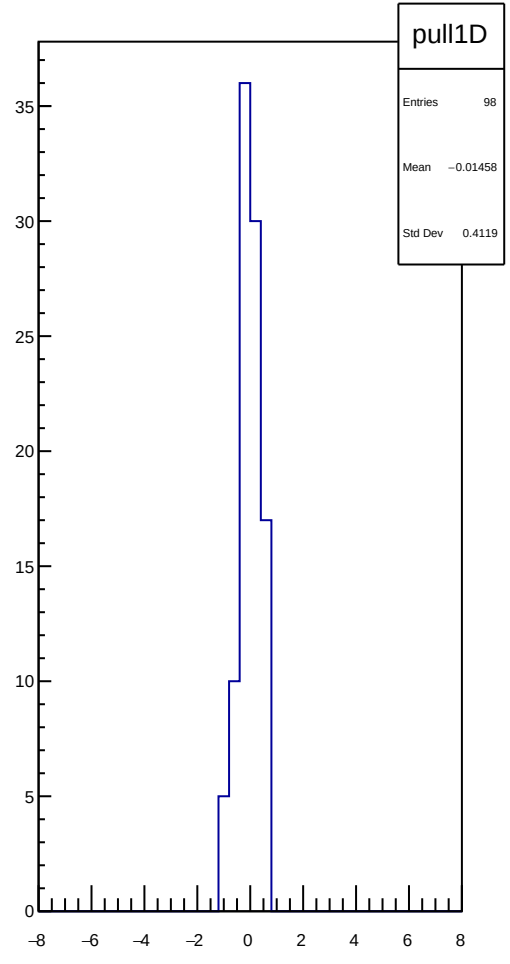

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 352.6 / 97
p0 −41 ± 0.09
−38
−40
−42
−44
−46
−48
pull
Entries 98
Mean −452.6
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 98
Mean −0.04823
Std Dev 1.896
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

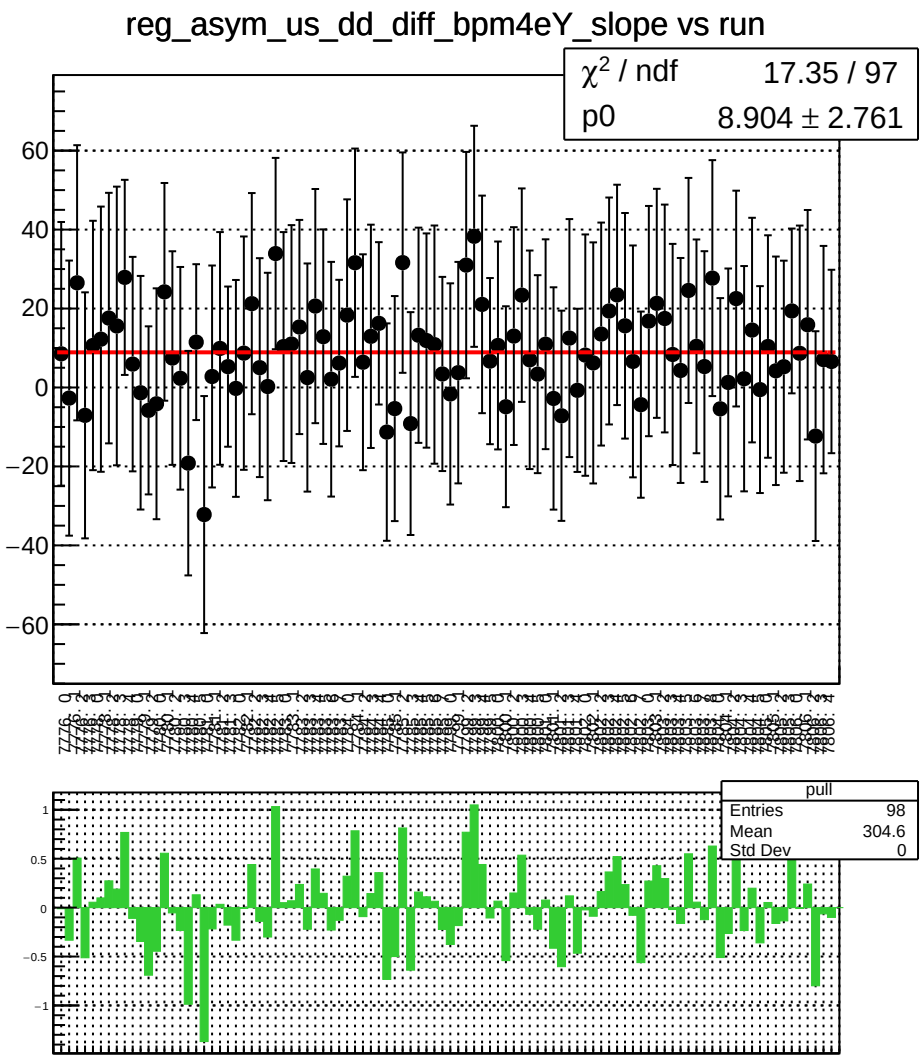

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 16.43 / 97
p0 −9.768 ± 2.372
40
20
0
−20
−40
−60
pull
Entries 98
Mean −2.606
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

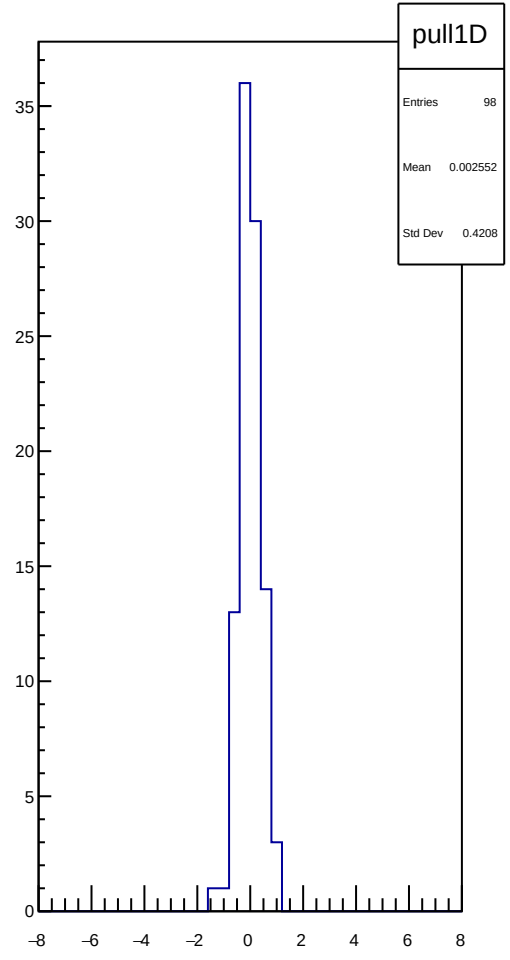

pull1D
Entries 98
Mean 0.01268
Std Dev 0.4092
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

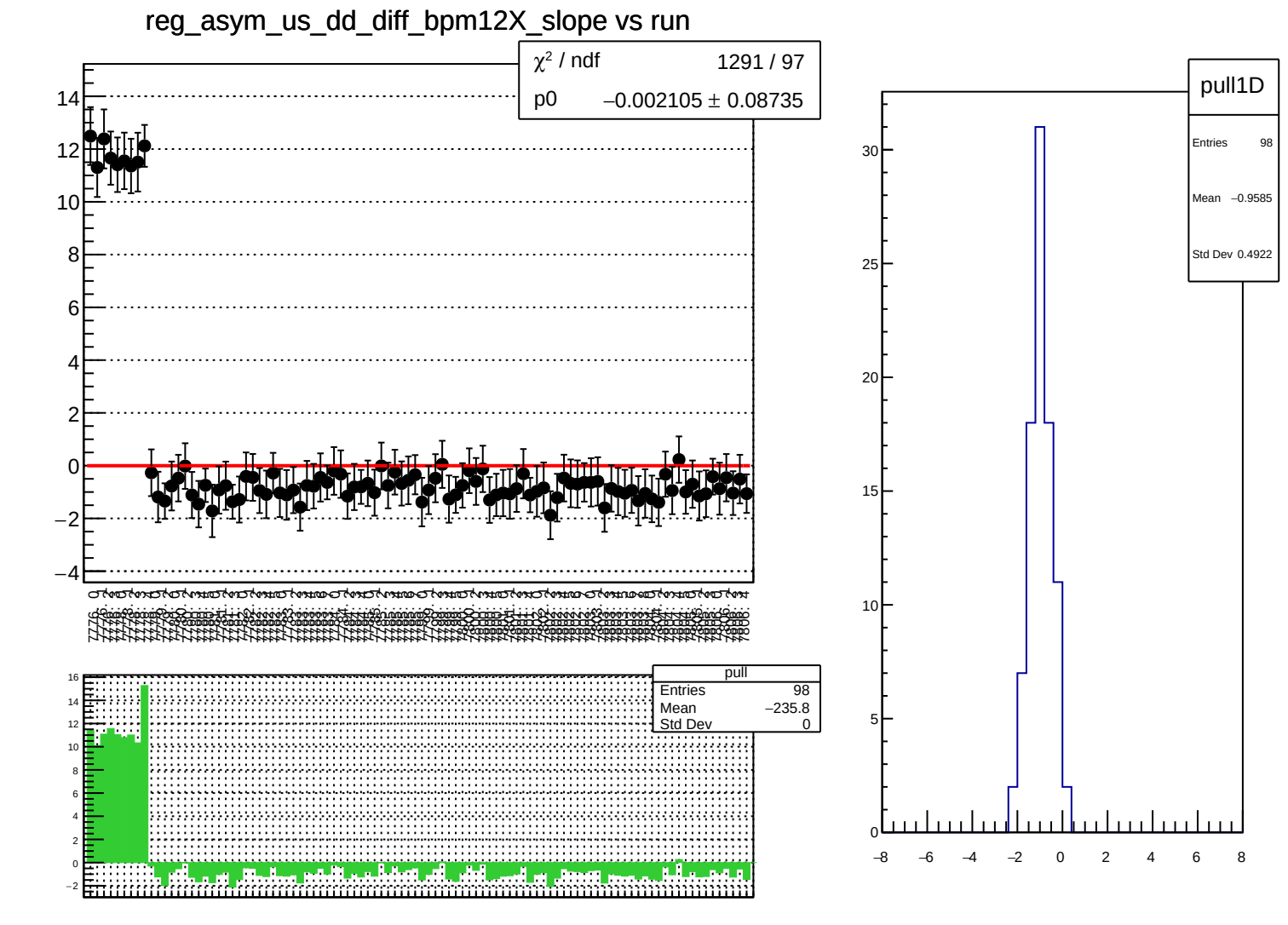

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.17 / 97
p0 −5.013 ± 2.44
pull
Entries 98
Mean −16.92
Std Dev 0
pull1D
Entries 98
Mean −0.006091
Std Dev 0.4305

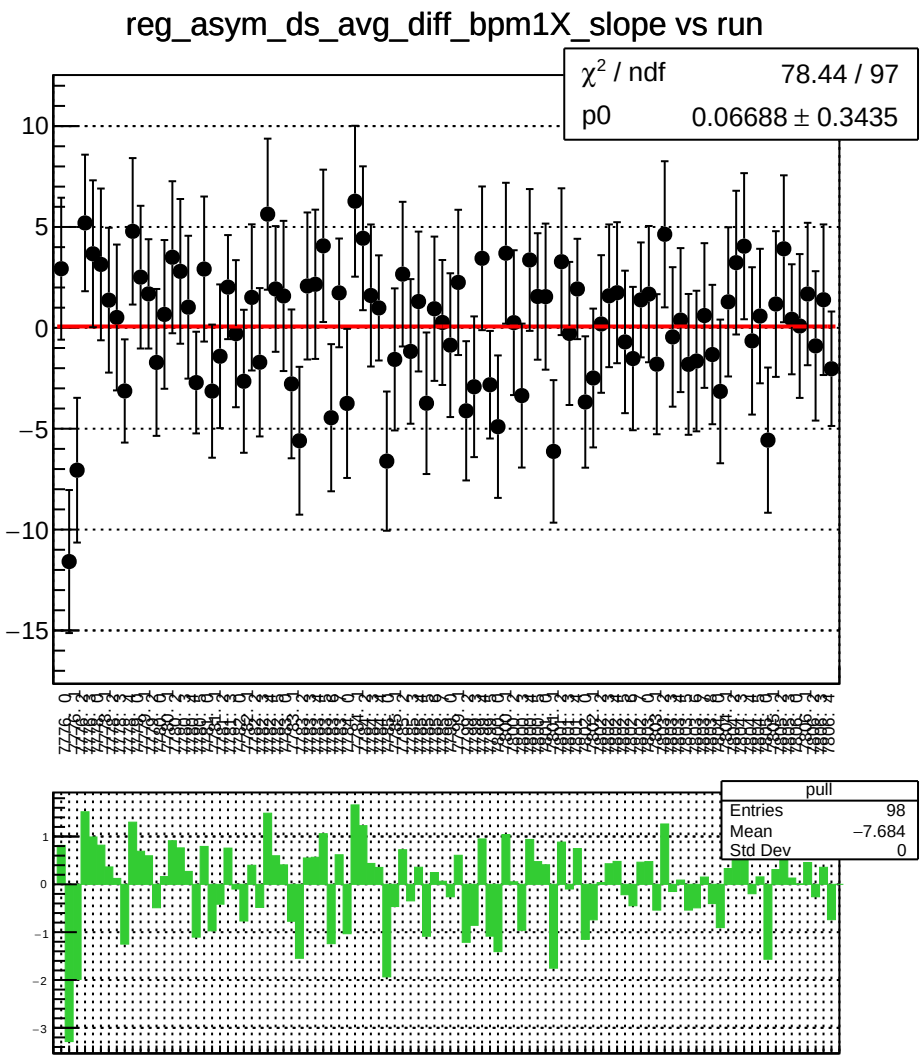

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.64 / 97
p0 −51.97 ± 2.063
pull
Entries 98
Mean −36.85
Std Dev 0

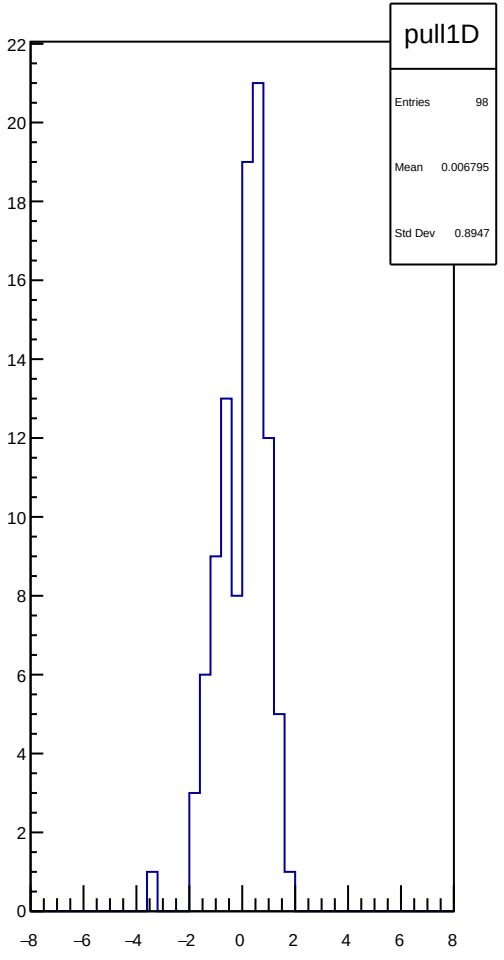

pull1D
Entries 98
Mean −0.01458
Std Dev 0.4119

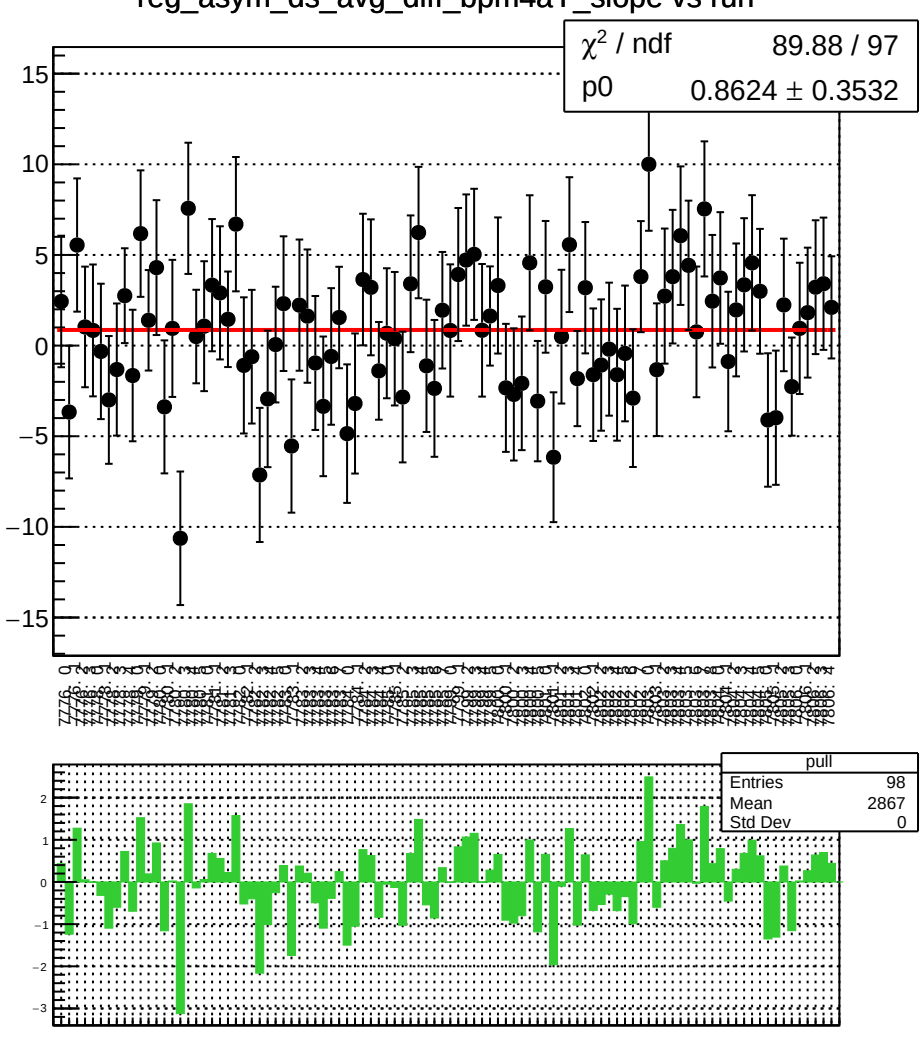

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.35 / 97
p0 8.904 ± 2.761
pull
Entries 98
Mean 304.6
Std Dev 0

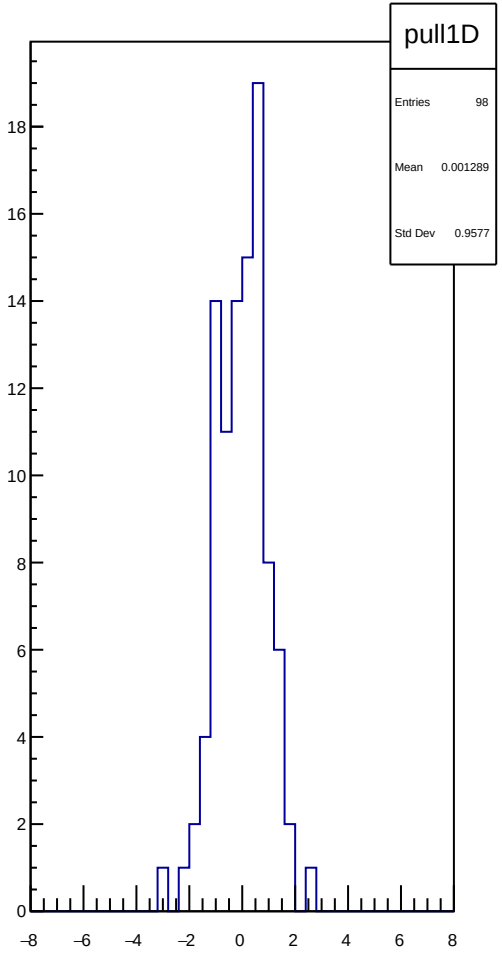

pull1D
Entries 98
Mean 0.002552
Std Dev 0.4208

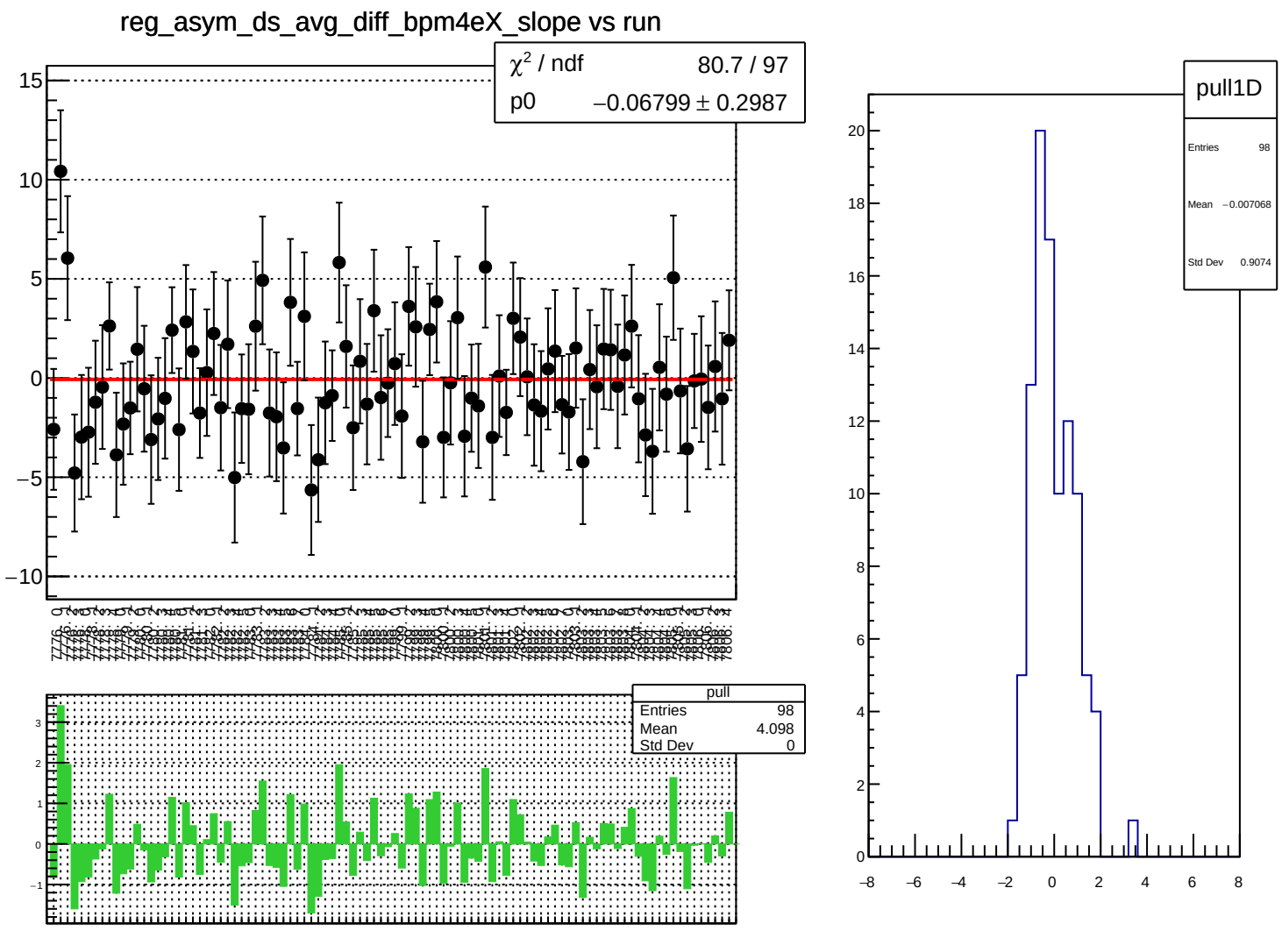

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 1291 / 97
p0 −0.002105 ± 0.08735
pull
Entries 98
Mean −235.8
Std Dev 0
pull1D
Entries 98
Mean −0.9585
Std Dev 0.4922

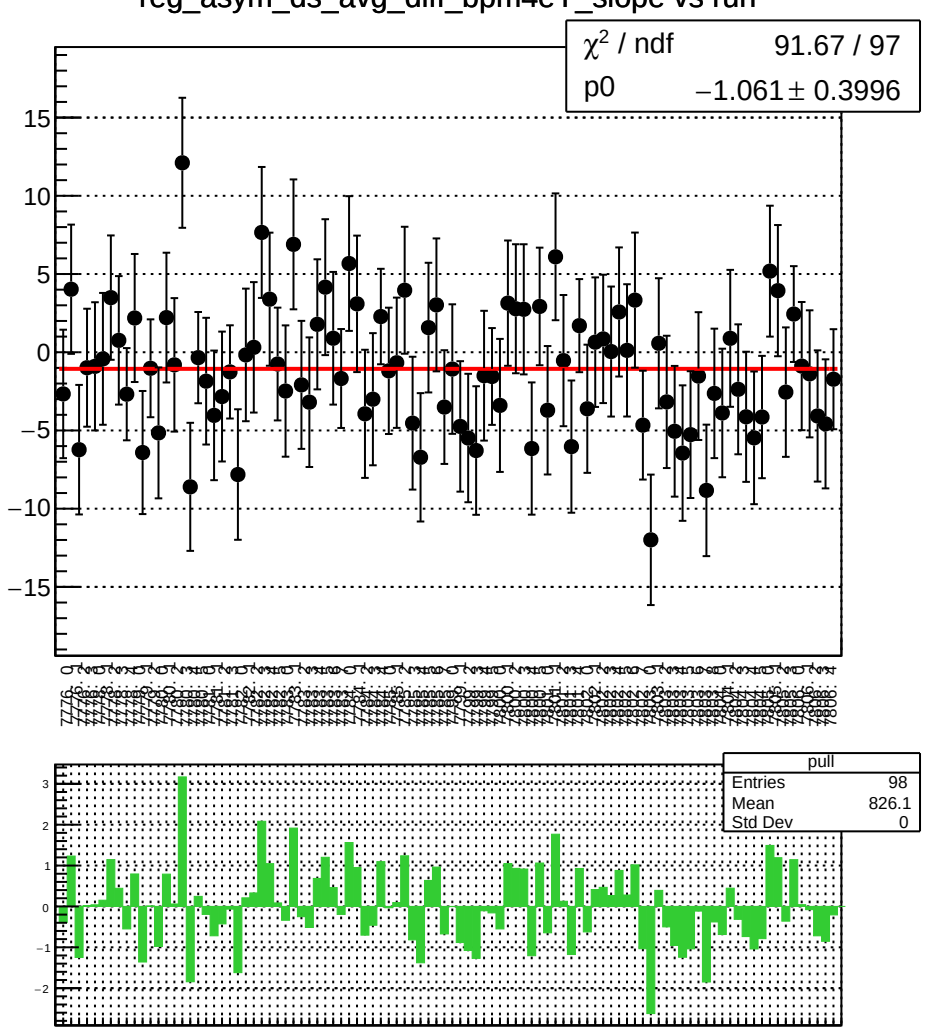

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 78.44 / 97
p0 0.06688 ± 0.3435
pull
Entries 98
Mean −7.684
Std Dev 0

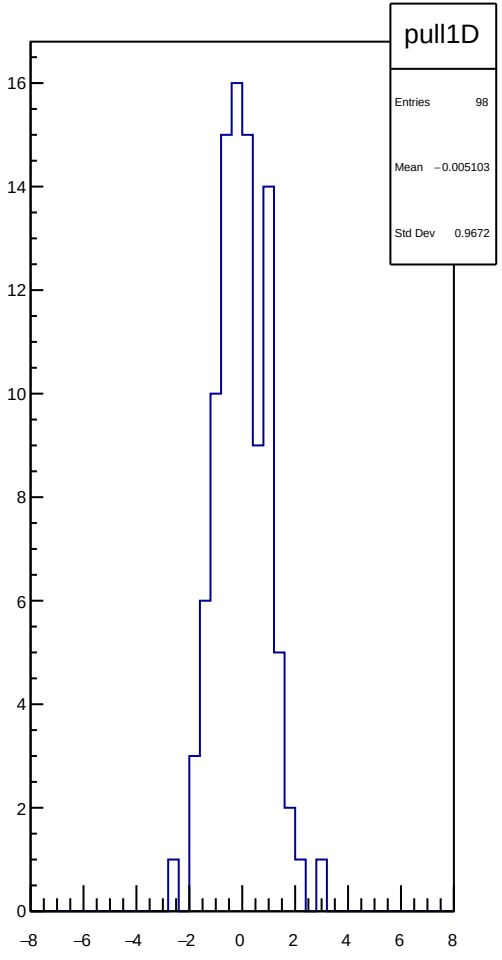

pull1D
Entries 98
Mean 0.006795
Std Dev 0.8947

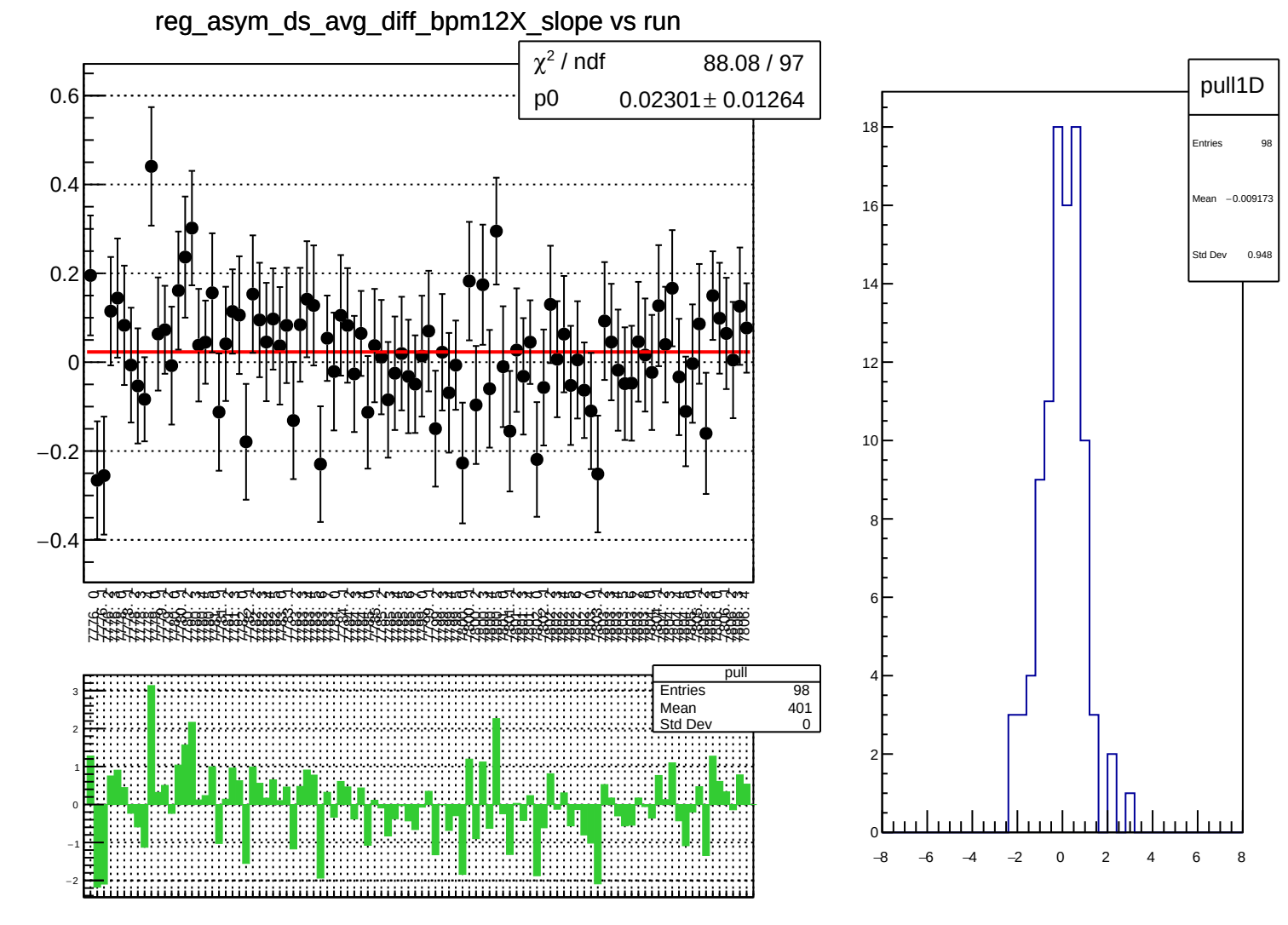

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.88 / 97
p0 0.8624 ± 0.3532
pull
Entries 98
Mean 2867
Std Dev 0

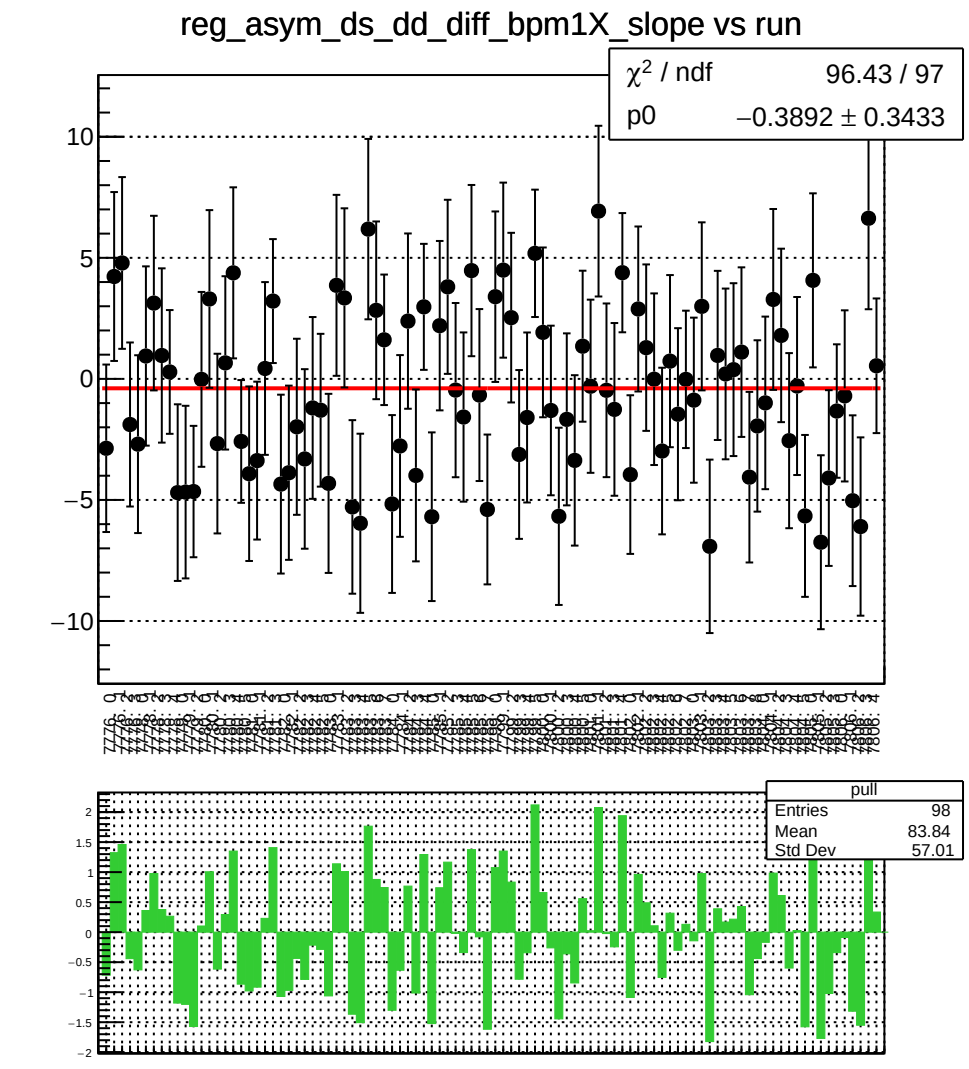

pull1D
Entries 98
Mean 0.001289
Std Dev 0.9577

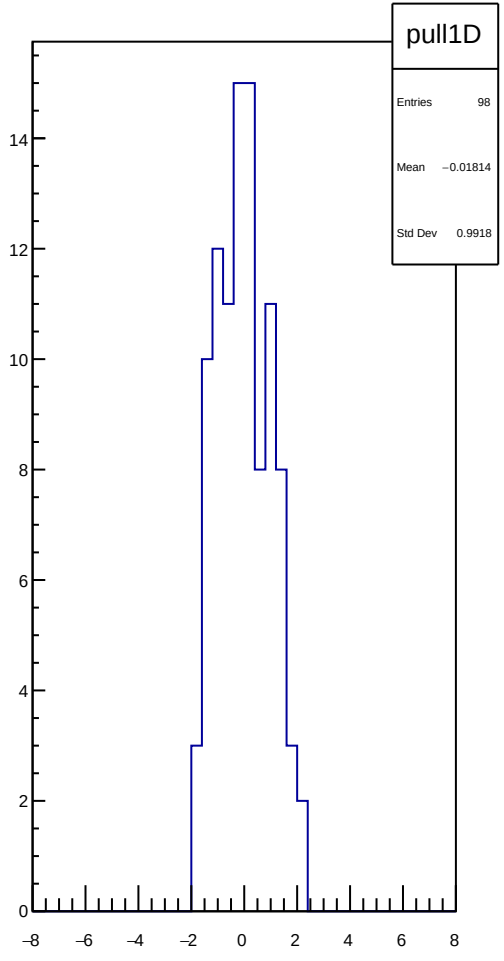

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.7 / 97
p0 −0.06799 ± 0.2987
pull
Entries 98
Mean 4.098
Std Dev 0
pull1D
Entries 98
Mean −0.007068
Std Dev 0.9074

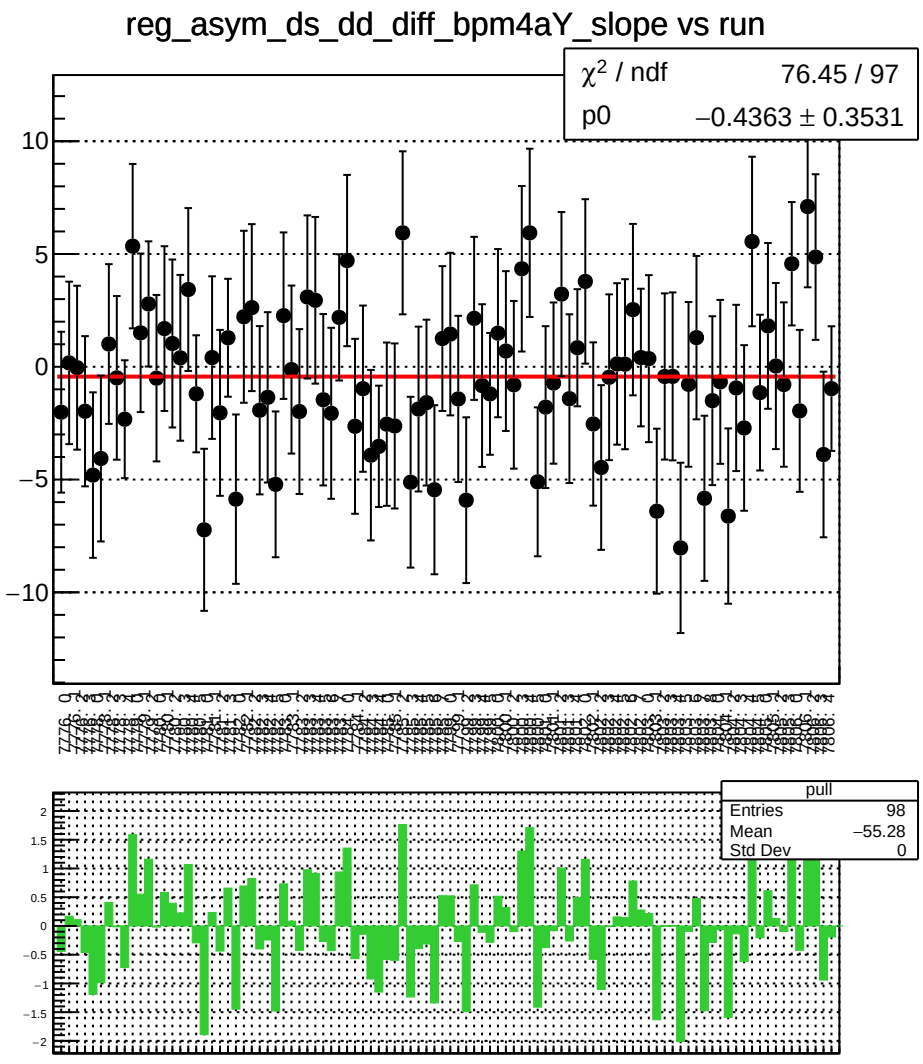

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.67 / 97
p0 −1.061 ± 0.3996
pull
Entries 98
Mean 826.1
Std Dev 0

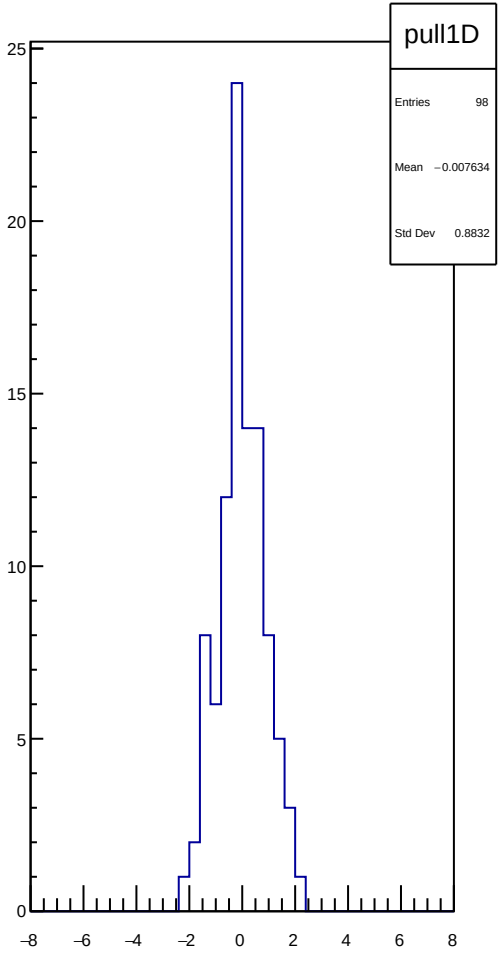

pull1D
Entries 98
Mean −0.005103
Std Dev 0.9672

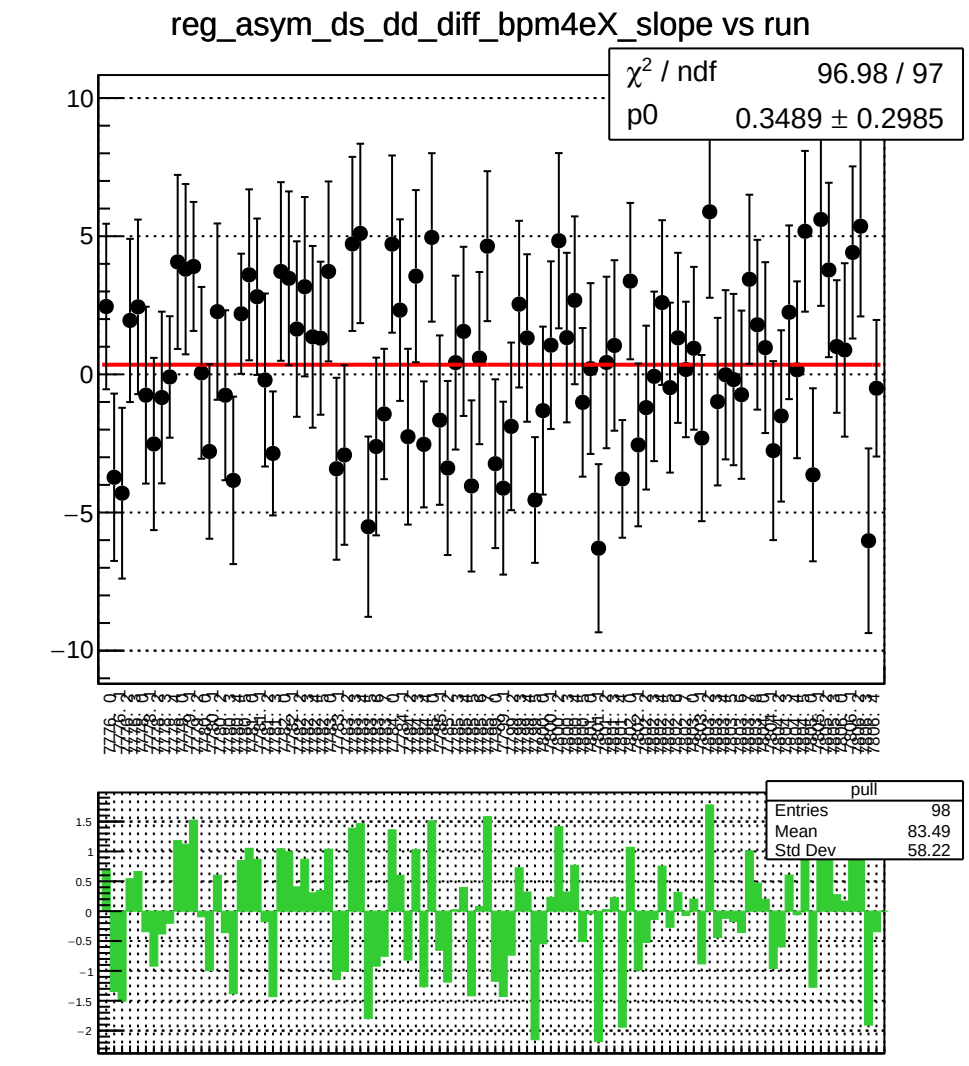

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 88.08 / 97
p0 0.02301 ± 0.01264
pull
Entries 98
Mean 401
Std Dev 0
pull1D
Entries 98
Mean −0.009173
Std Dev 0.948

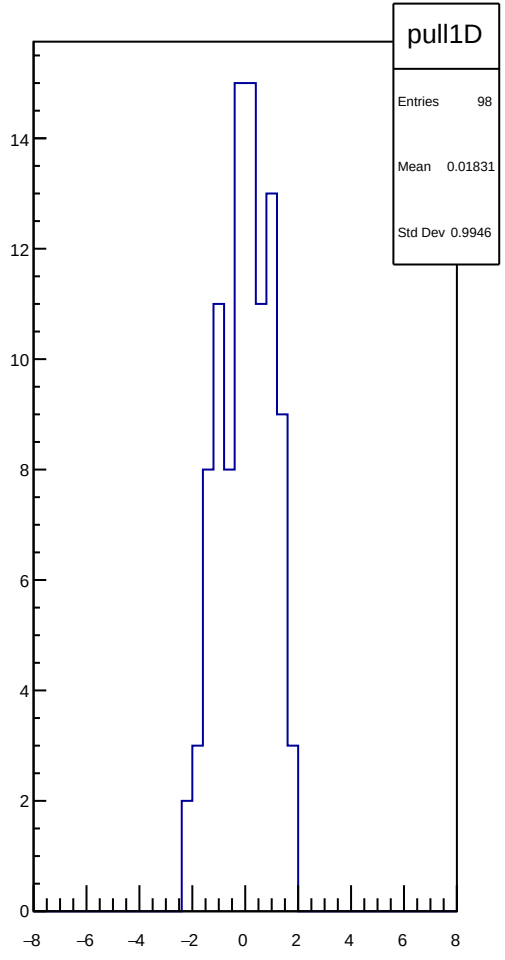

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 96.43 / 97
p0 −0.3892 ± 0.3433
pull
Entries 98
Mean 83.84
Std Dev 57.01

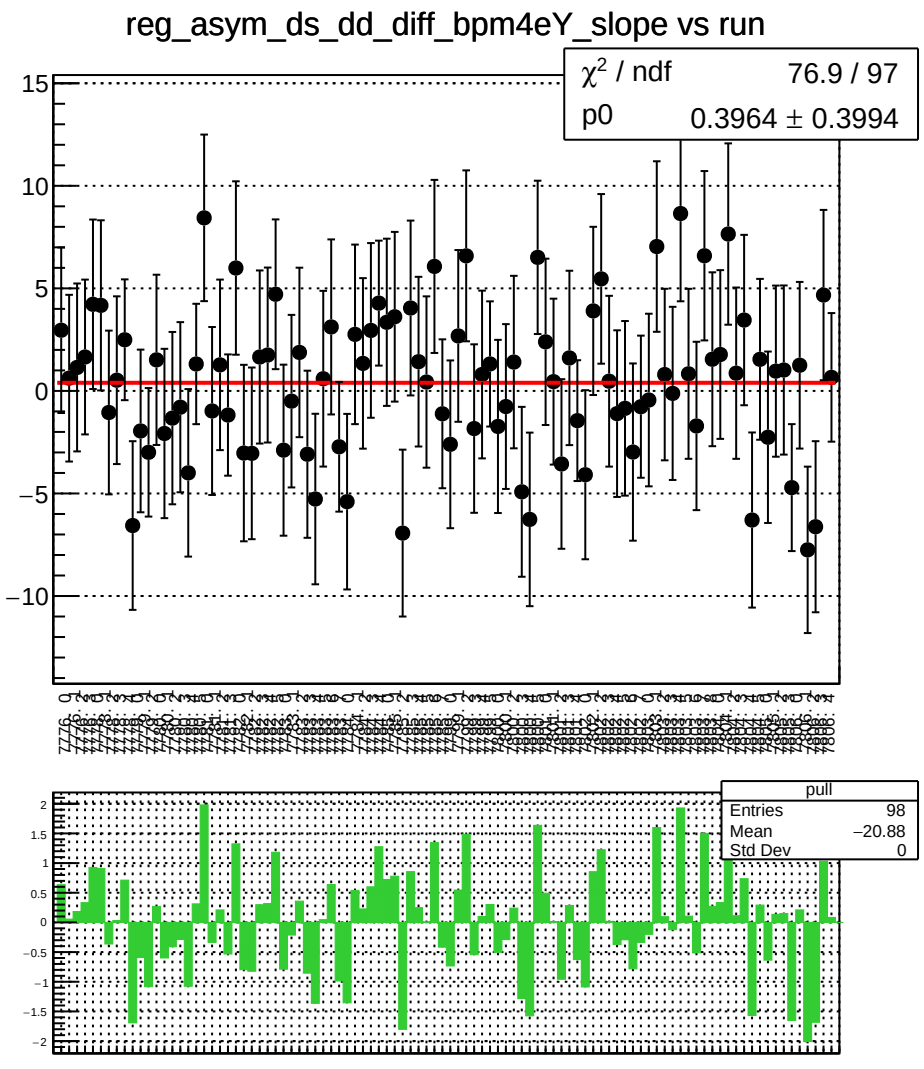

pull1D
Entries 98
Mean −0.01814
Std Dev 0.9918

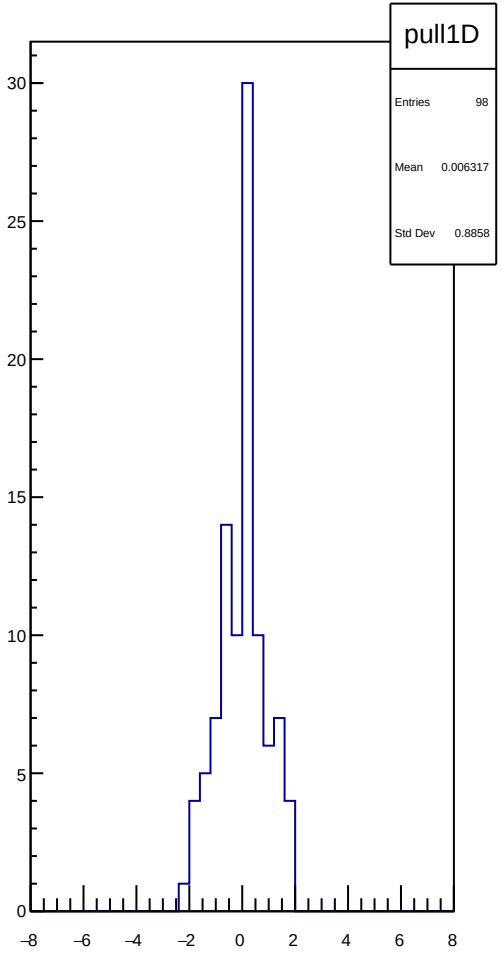

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.45 / 97
p0 −0.4363 ± 0.3531
pull
Entries 98
Mean −55.28
Std Dev 0

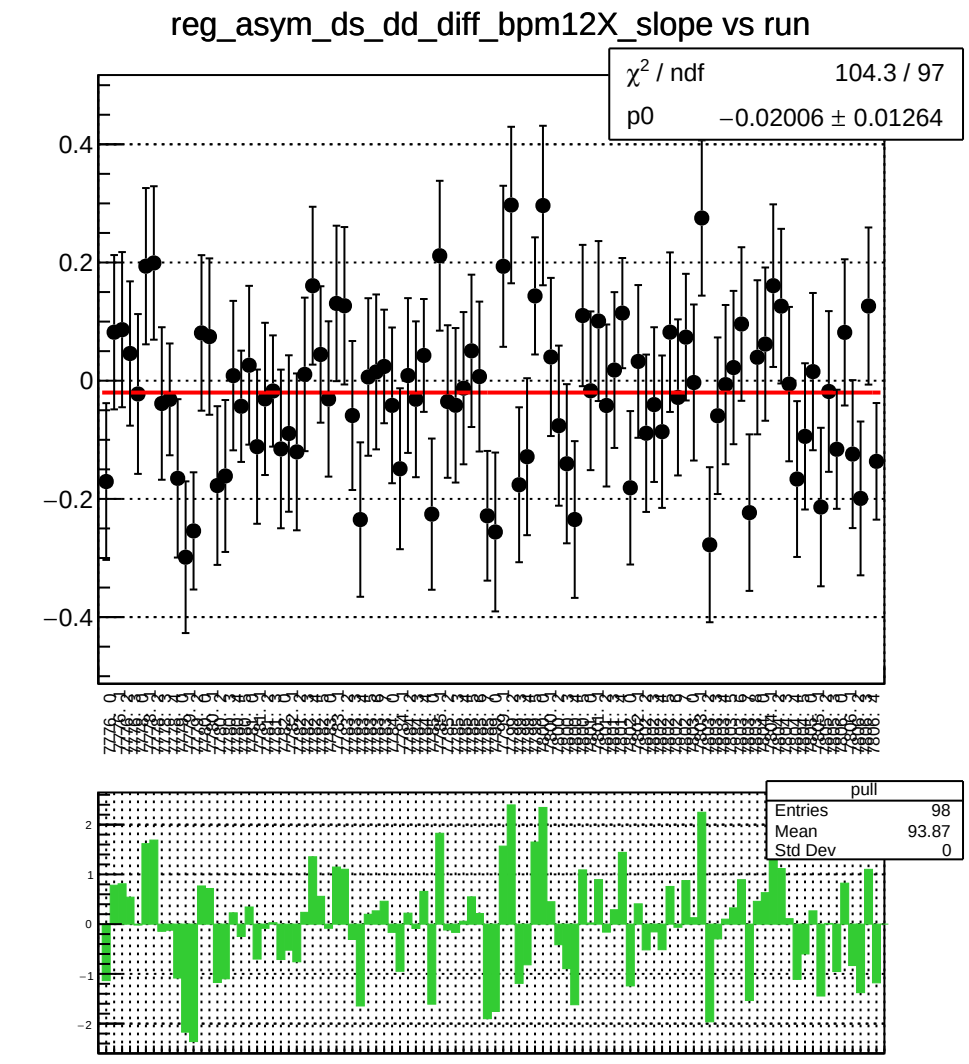

pull1D
Entries 98
Mean −0.007634
Std Dev 0.8832

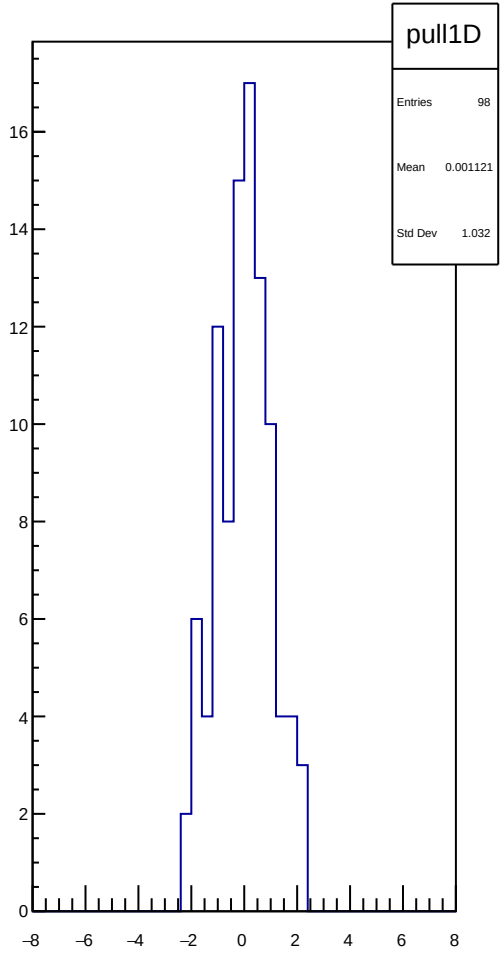

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.98 / 97
p0 0.3489 ± 0.2985
pull
Entries 98
Mean 83.49
Std Dev 58.22

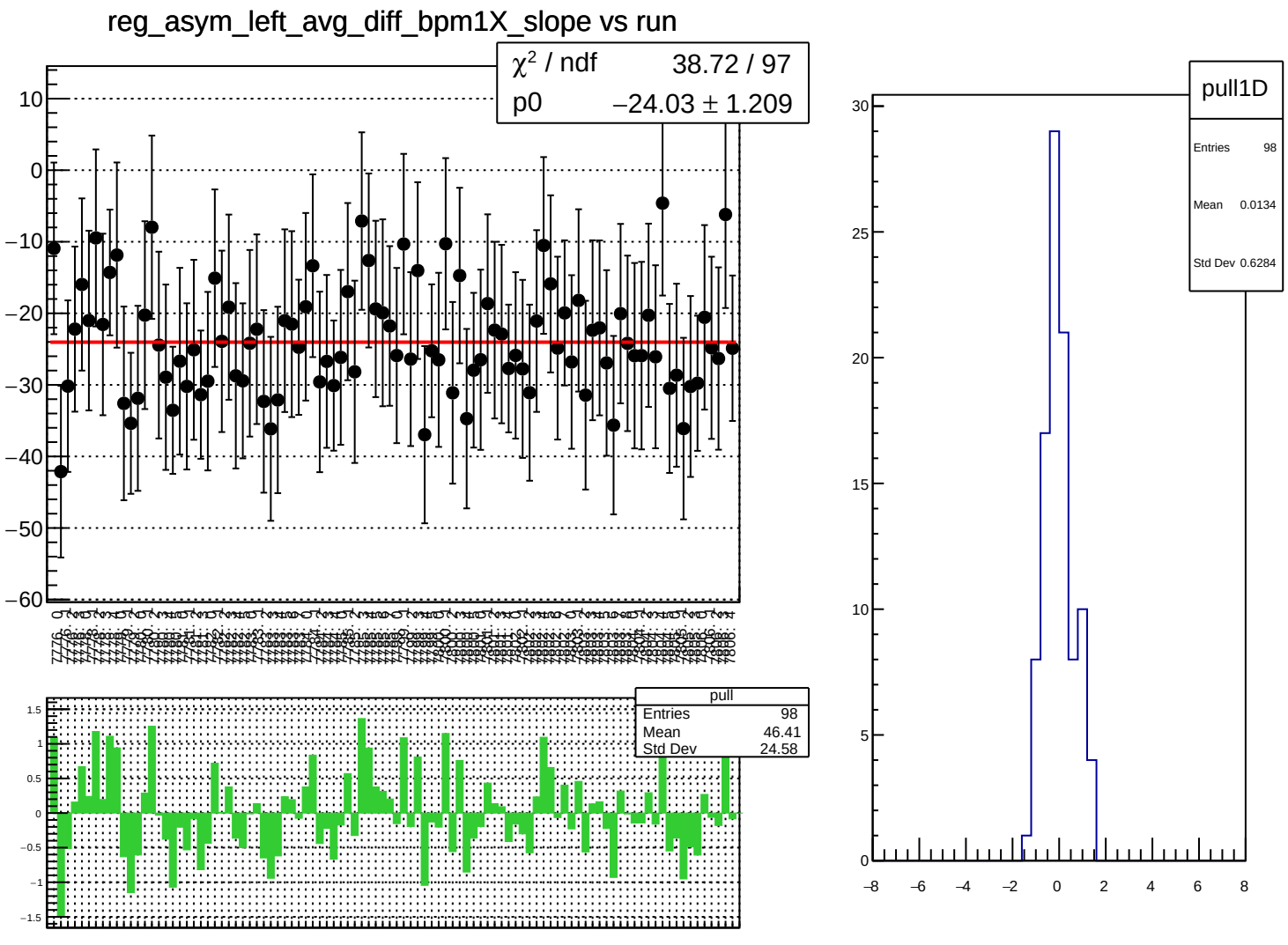

pull1D
Entries 98
Mean 0.01831
Std Dev 0.9946

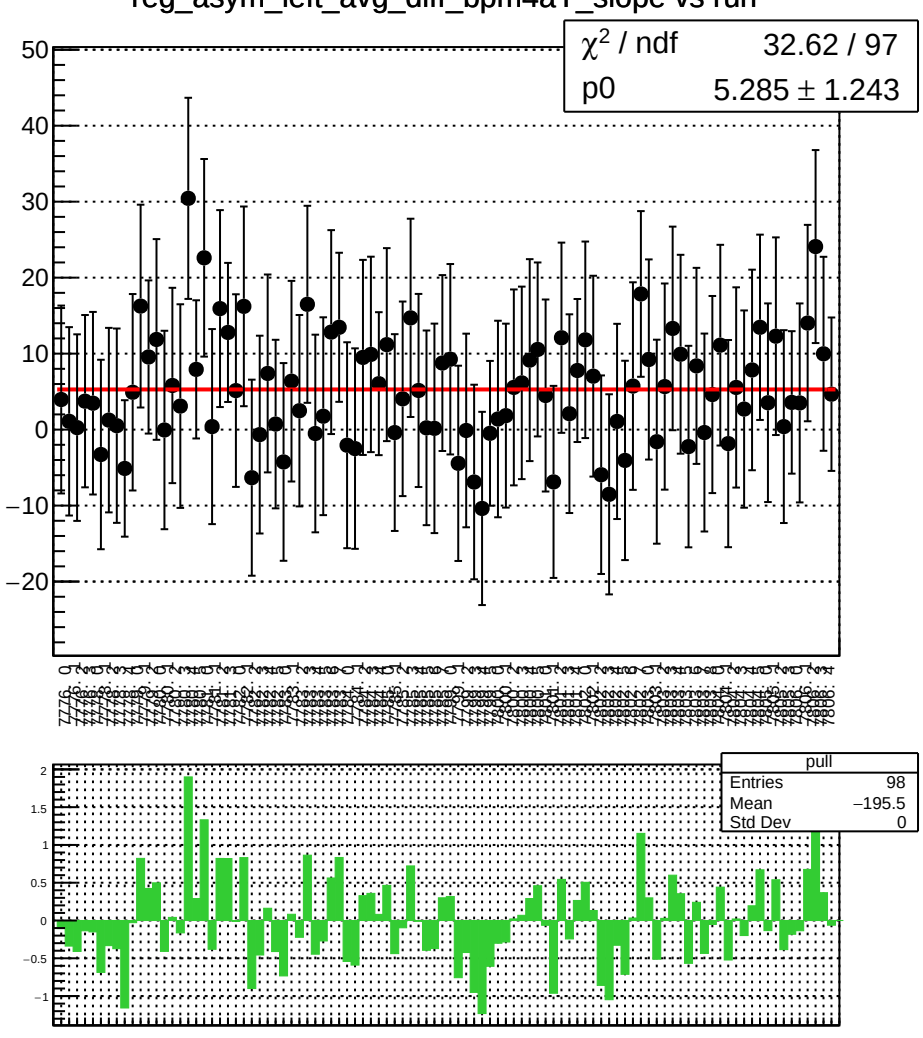

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.9 / 97
p0 0.3964 ± 0.3994
pull
Entries 98
Mean −20.88
Std Dev 0

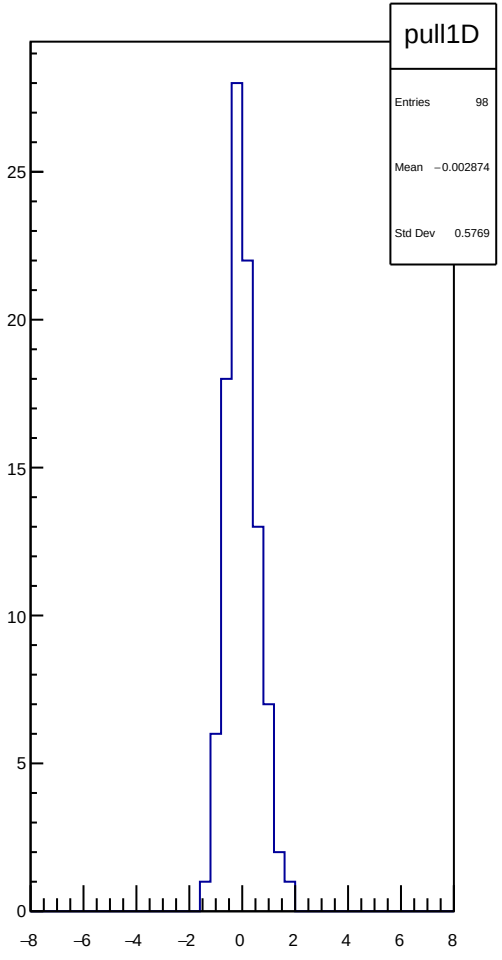

pull1D
Entries 98
Mean 0.006317
Std Dev 0.8858

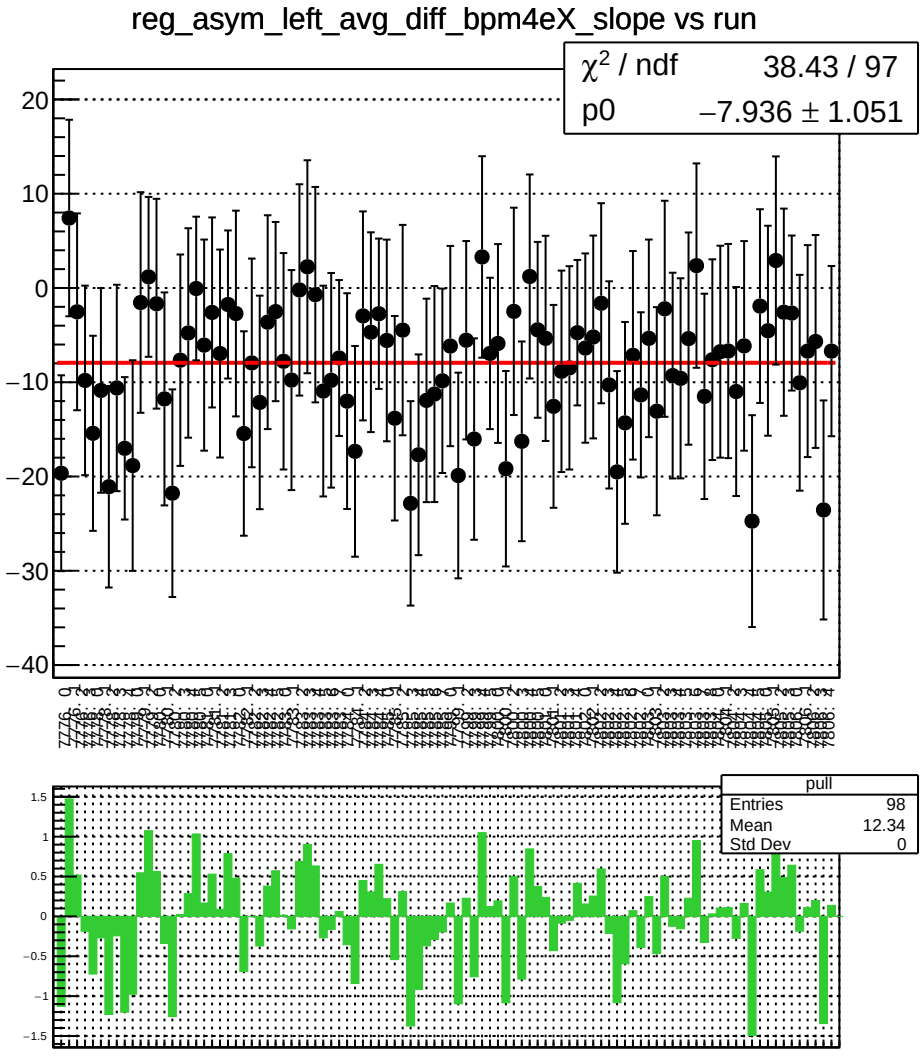

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 104.3 / 97
p0 −0.02006 ± 0.01264
0.4
0.2
0
−0.2
−0.4
pull
Entries 98
Mean 93.87
Std Dev 0
2
1
0
−1
−2

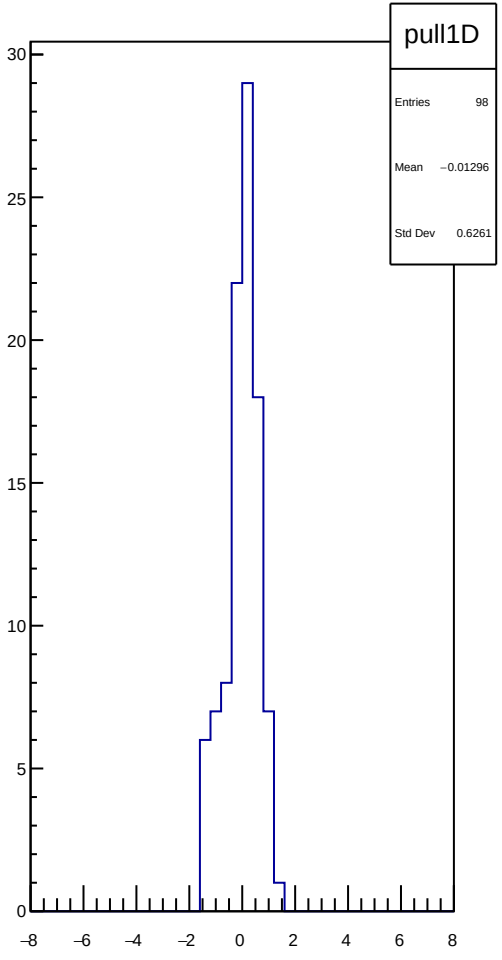

pull1D
Entries 98
Mean 0.001121
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

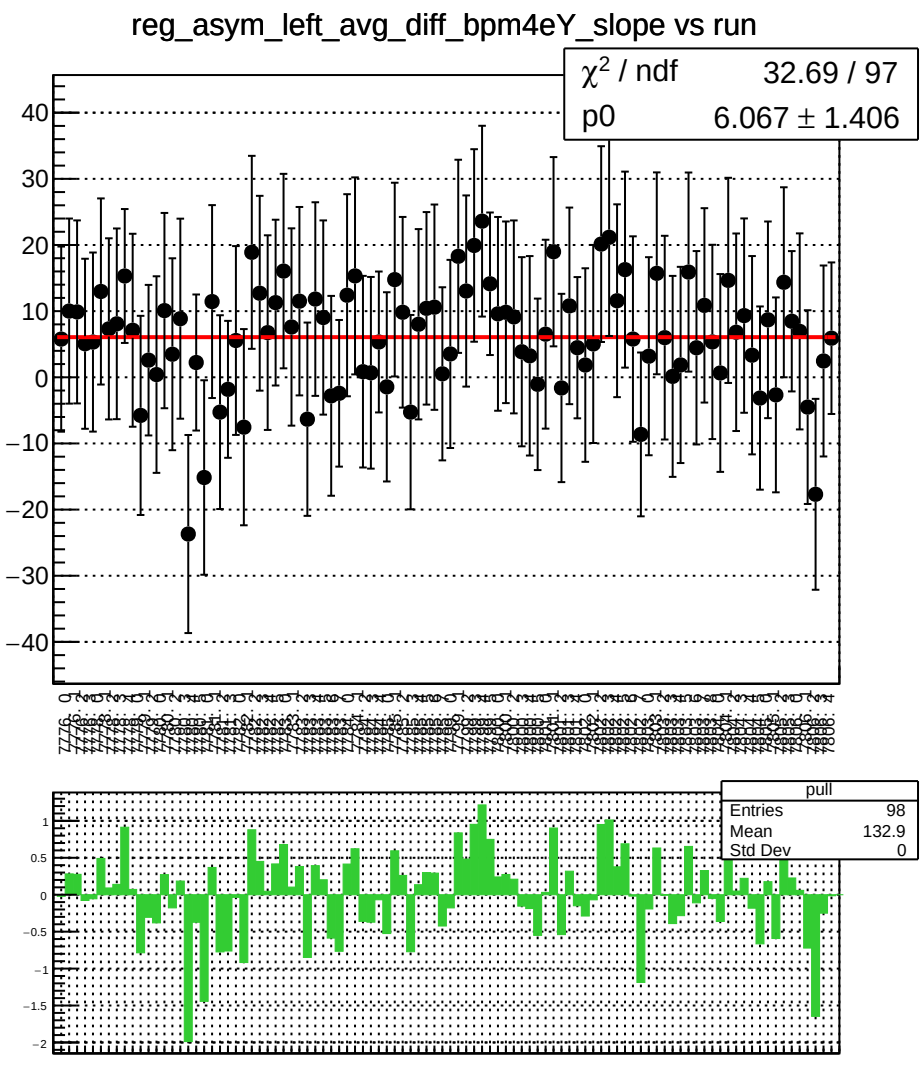

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 38.72 / 97
p0 −24.03 ± 1.209
pull
Entries 98
Mean 46.41
Std Dev 24.58
pull1D
Entries 98
Mean 0.0134
Std Dev 0.6284

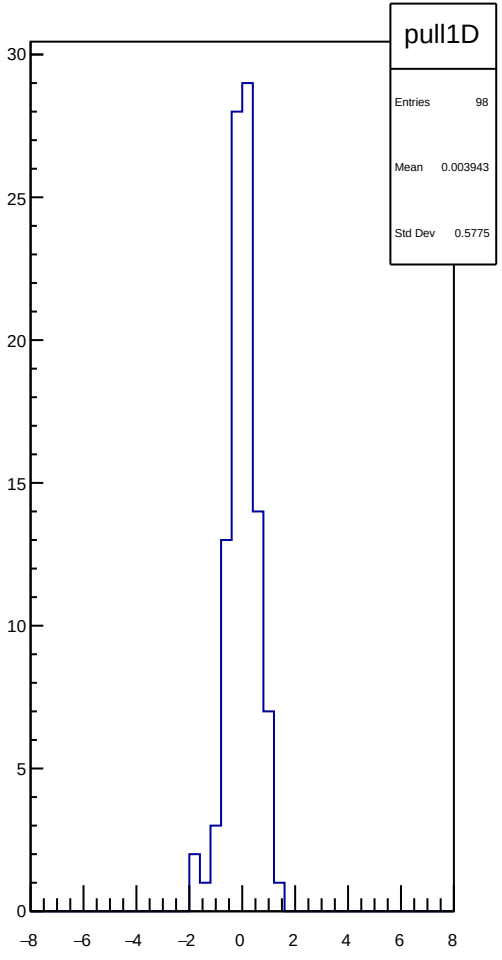

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.62 / 97
p0 5.285 ± 1.243
pull
Entries 98
Mean −195.5
Std Dev 0

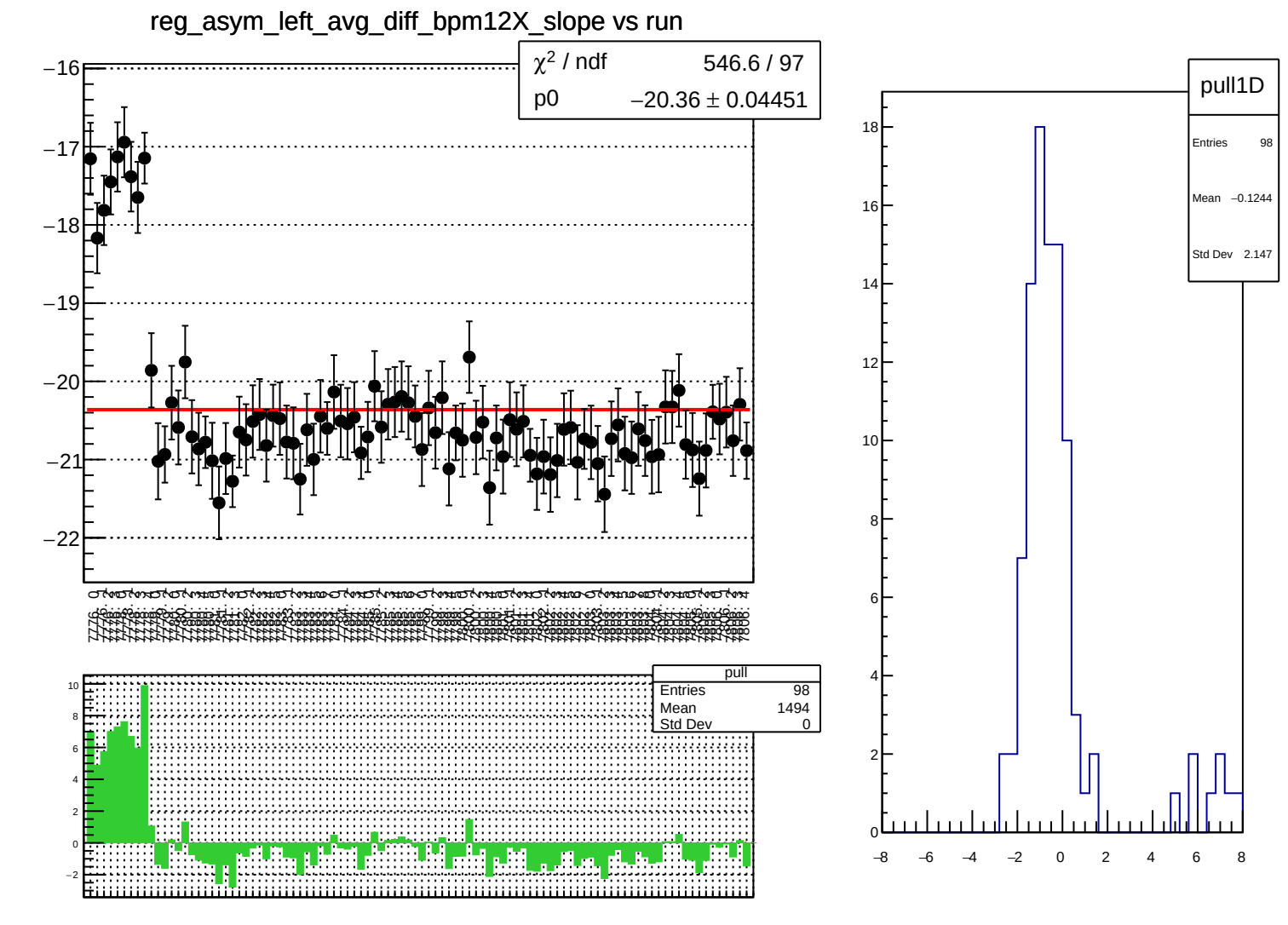

pull1D
Entries 98
Mean −0.002874
Std Dev 0.5769

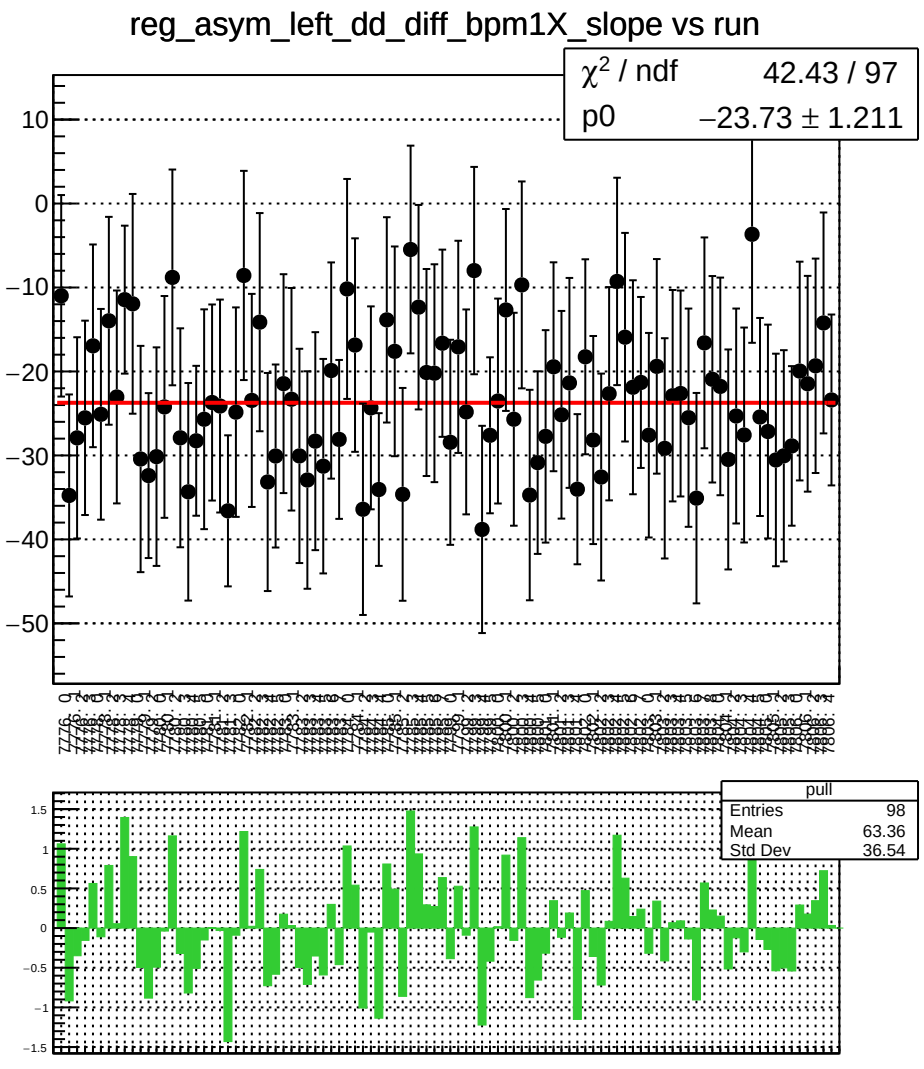

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.43 / 97
p0 −7.936 ± 1.051
pull
Entries 98
Mean 12.34
Std Dev 0

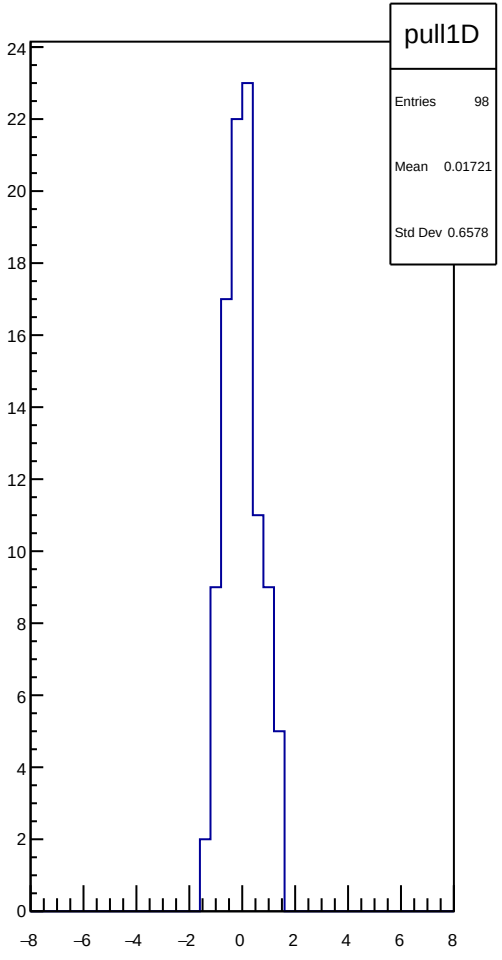

pull1D
Entries 98
Mean −0.01296
Std Dev 0.6261

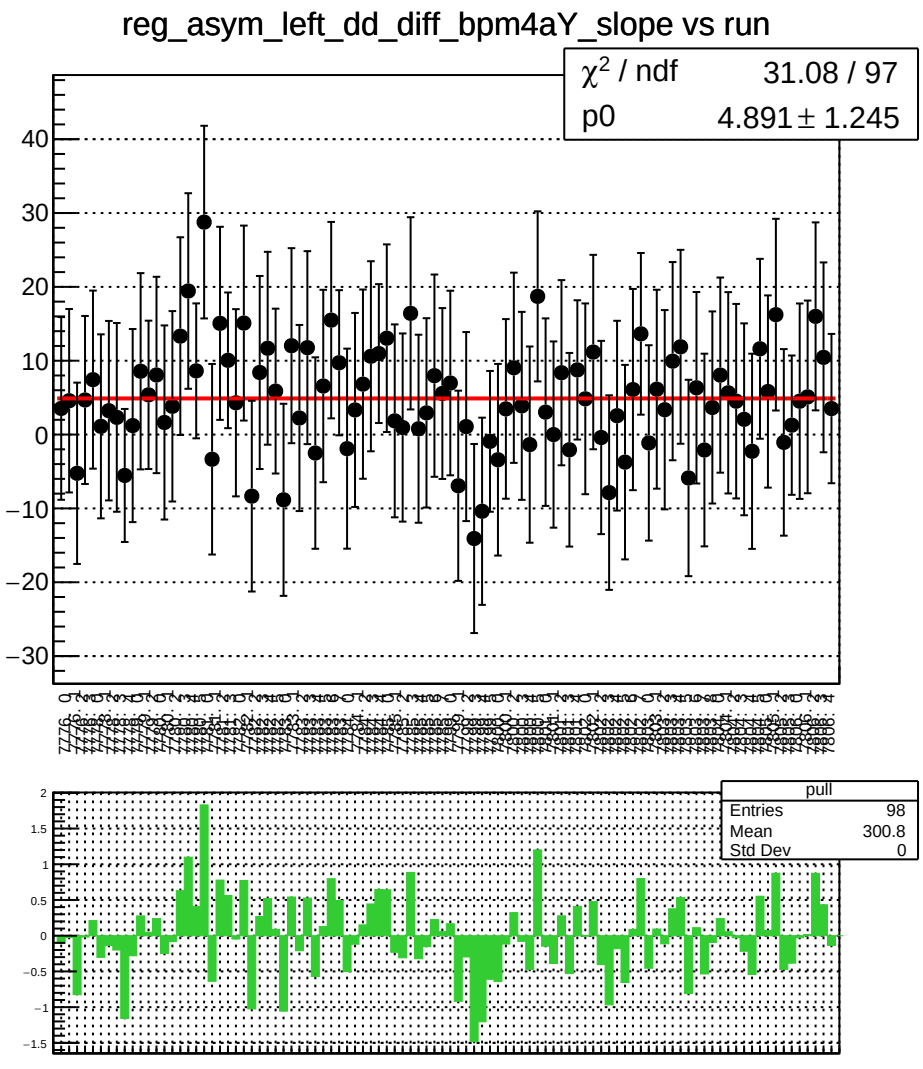

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.69 / 97
p0 6.067 ± 1.406
pull
Entries 98
Mean 132.9
Std Dev 0

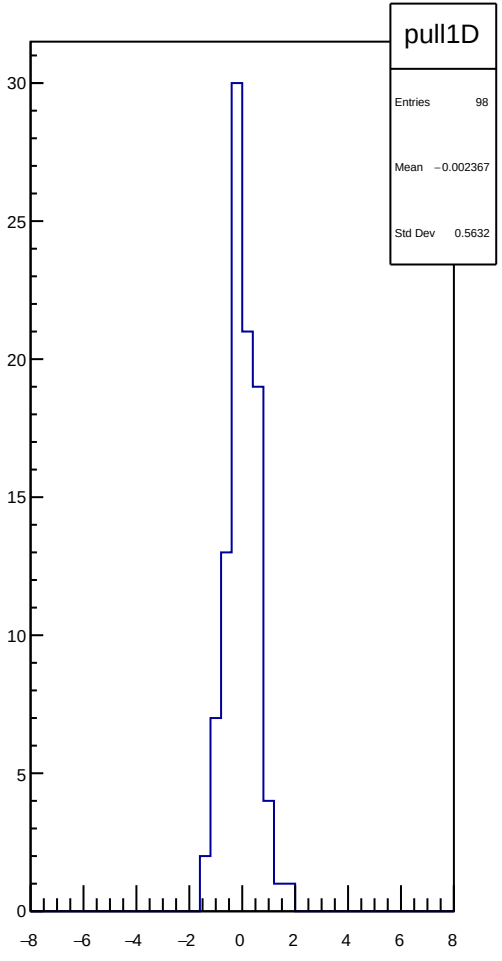

pull1D
Entries 98
Mean 0.003943
Std Dev 0.5775

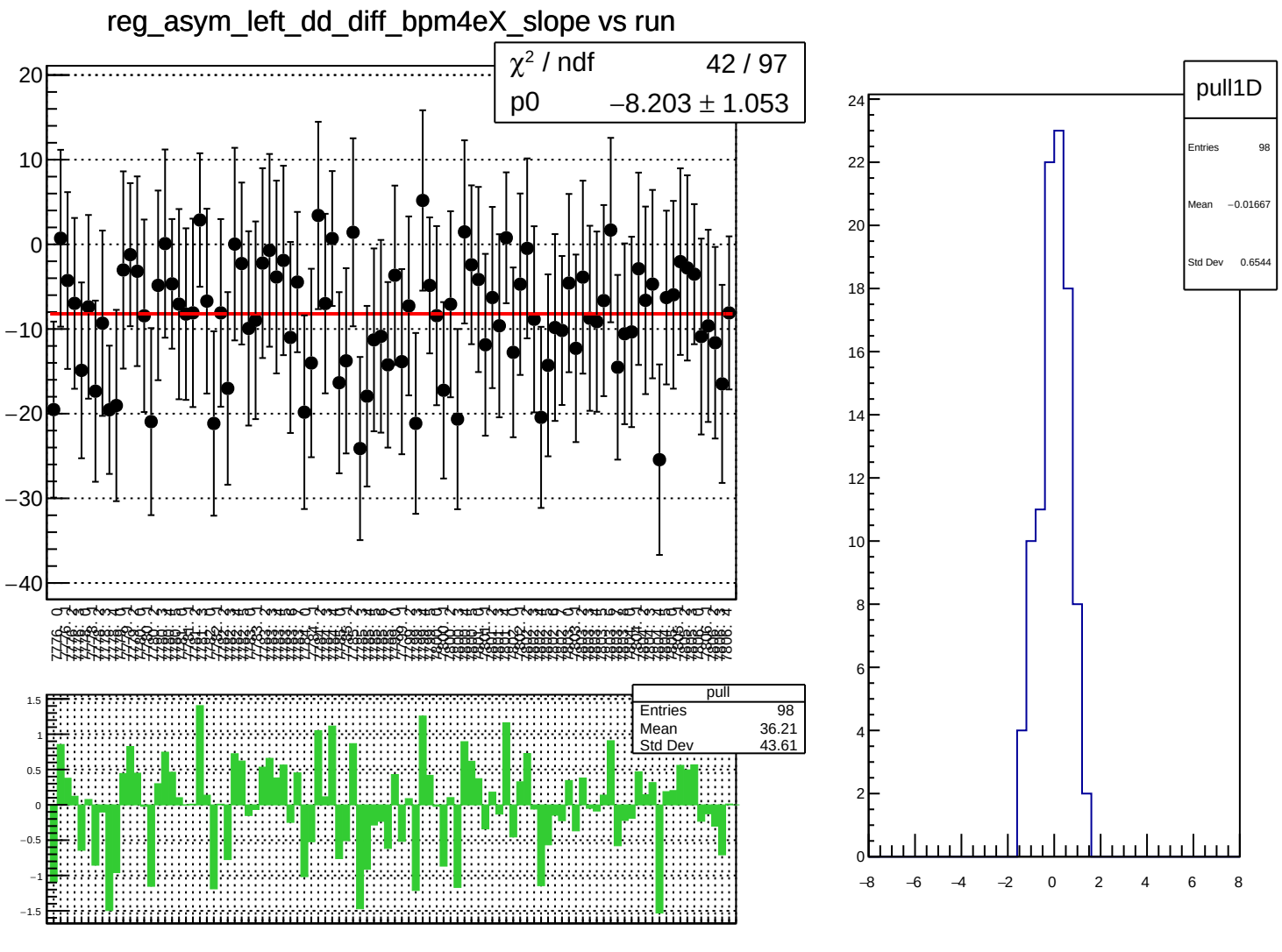

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 546.6 / 97
p0 −20.36 ± 0.04451
pull
Entries 98
Mean 1494
Std Dev 0
pull1D
Entries 98
Mean −0.1244
Std Dev 2.147

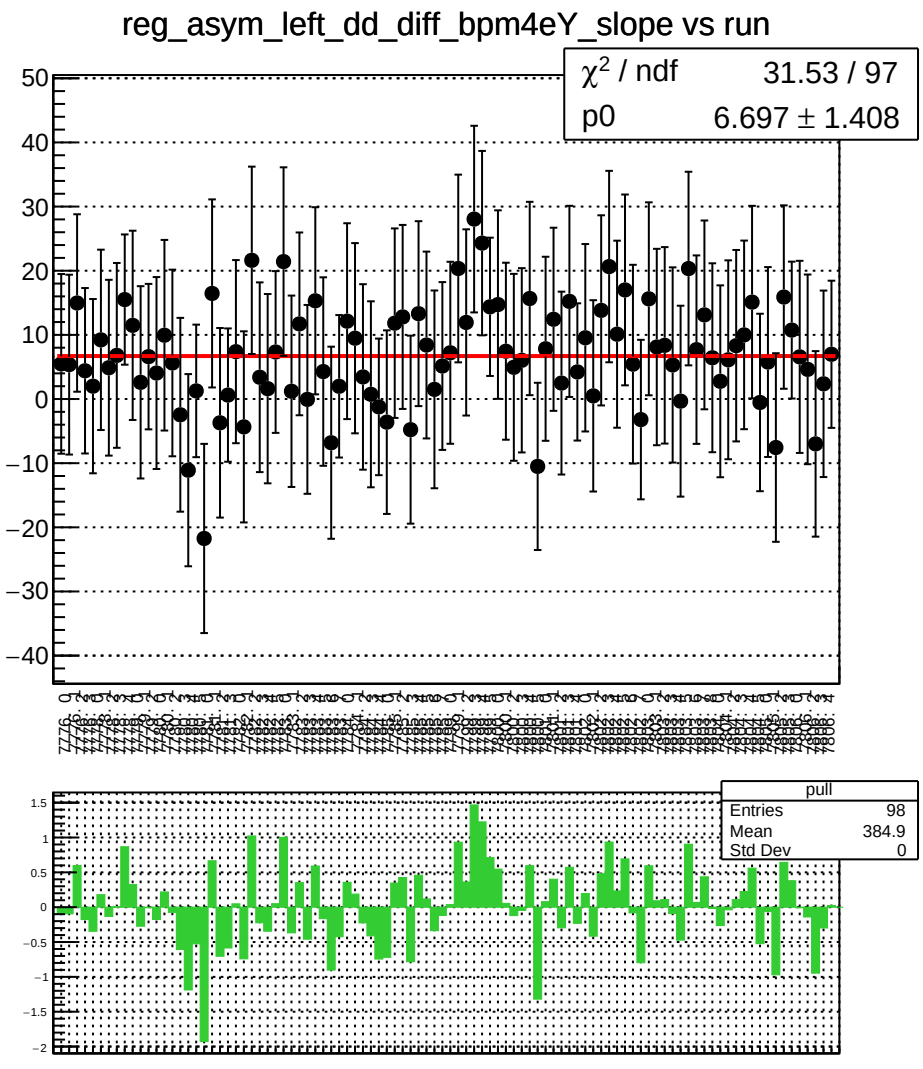

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 42.43 / 97
p0 −23.73 ± 1.211
pull
Entries 98
Mean 63.36
Std Dev 36.54

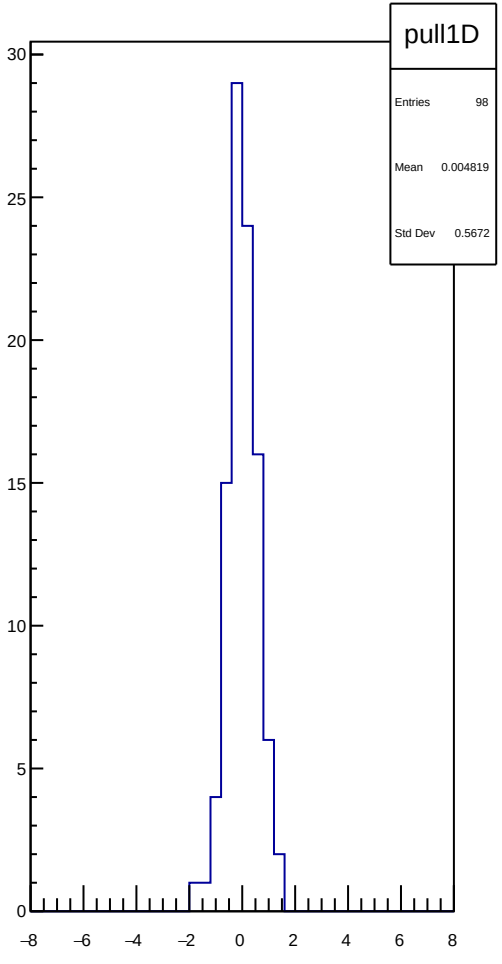

pull1D
Entries 98
Mean 0.01721
Std Dev 0.6578

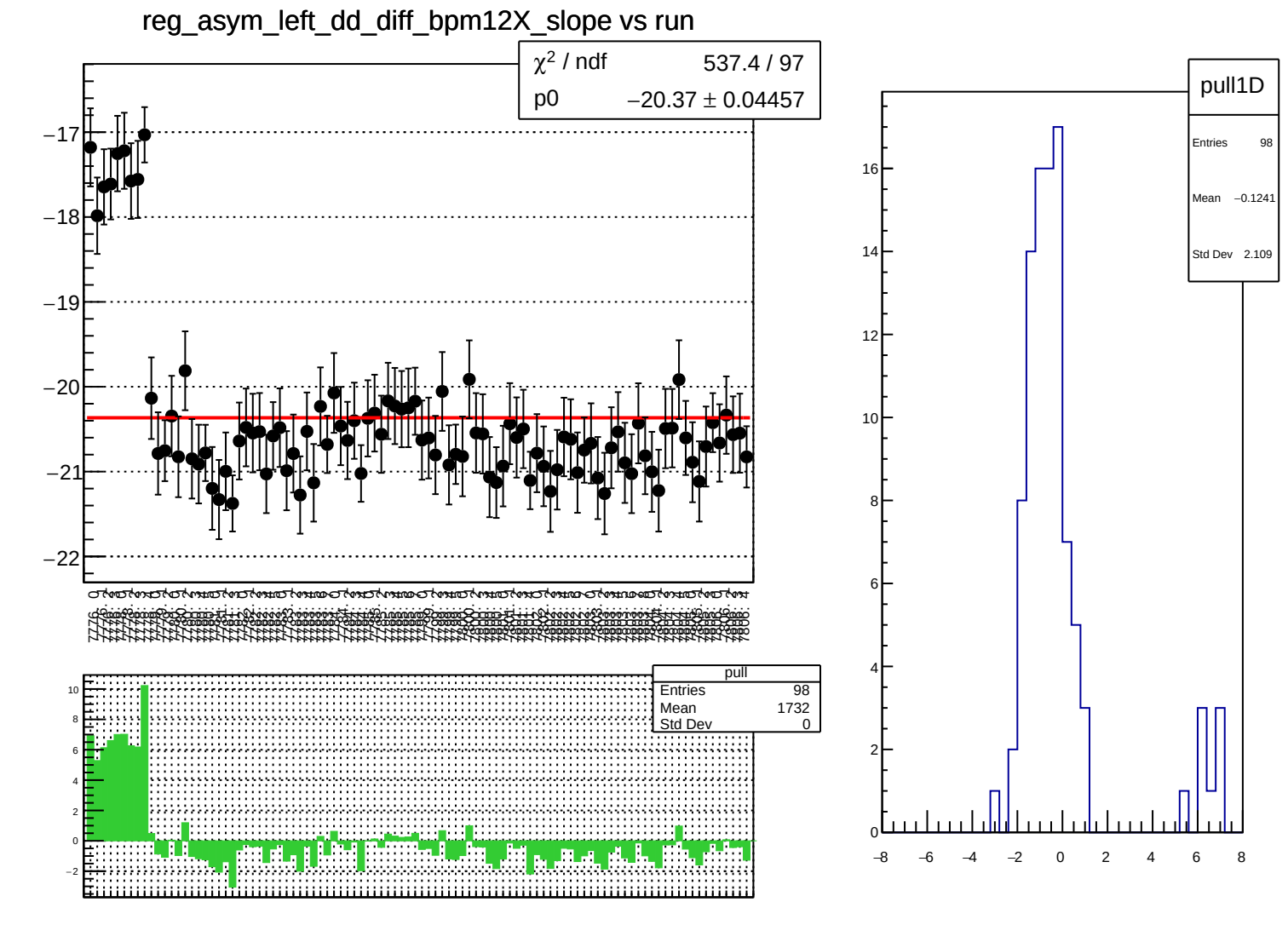

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.08 / 97
p0 4.891 ± 1.245
pull
Entries 98
Mean 300.8
Std Dev 0

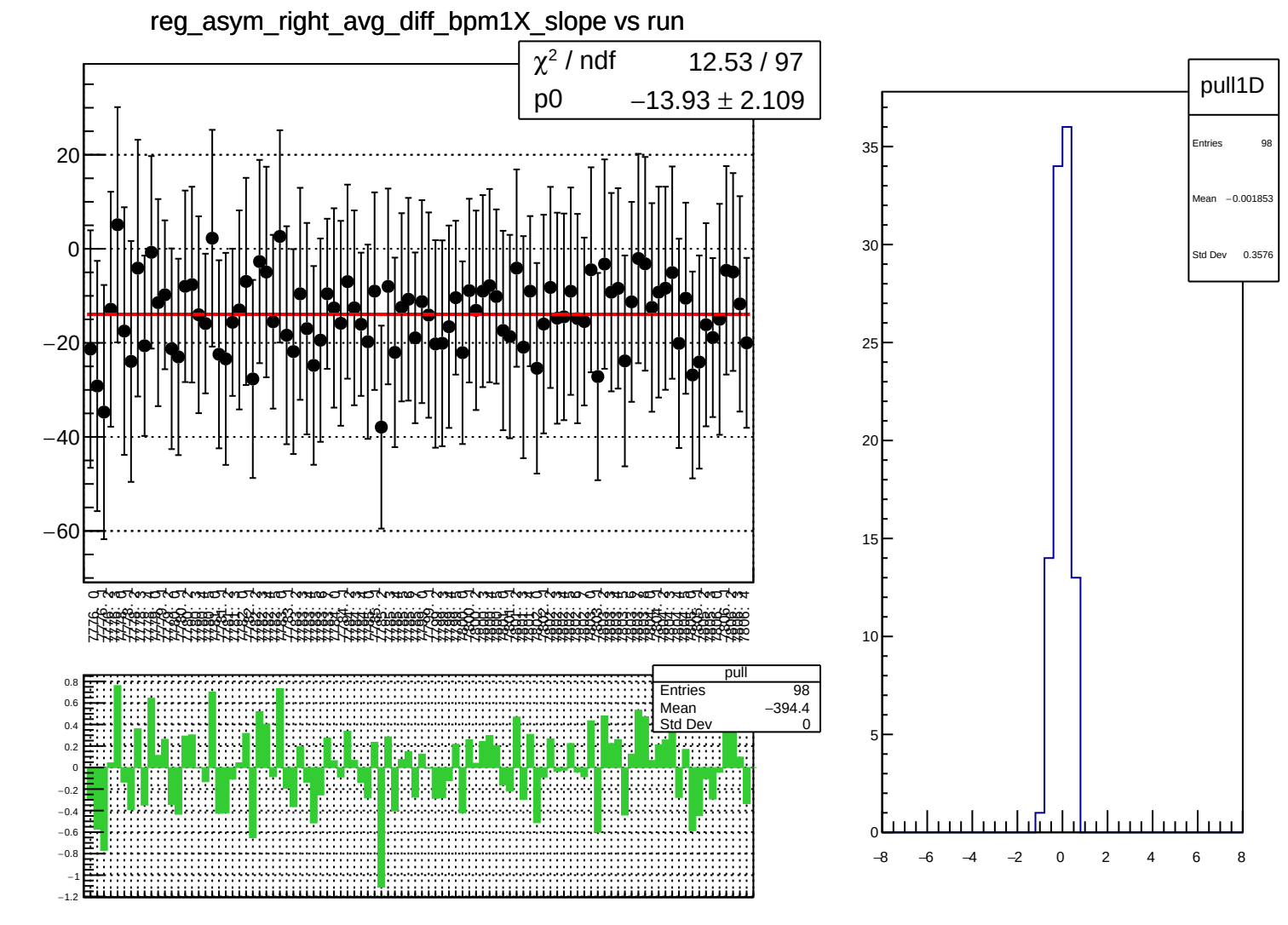

pull1D
Entries 98
Mean −0.002367
Std Dev 0.5632

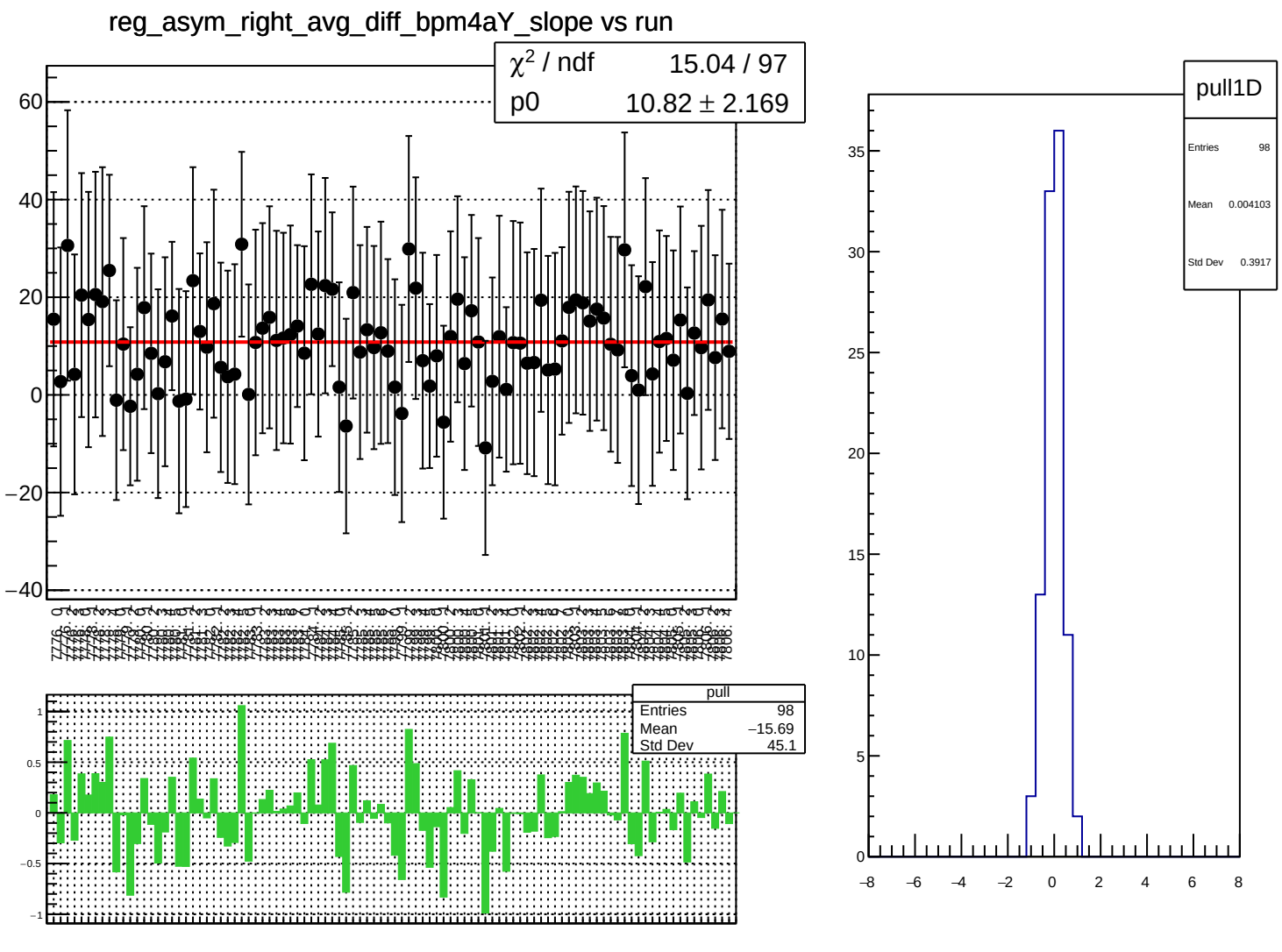

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 42 / 97
p0 −8.203 ± 1.053
pull
Entries 98
Mean 36.21
Std Dev 43.61
pull1D
Entries 98
Mean −0.01667
Std Dev 0.6544

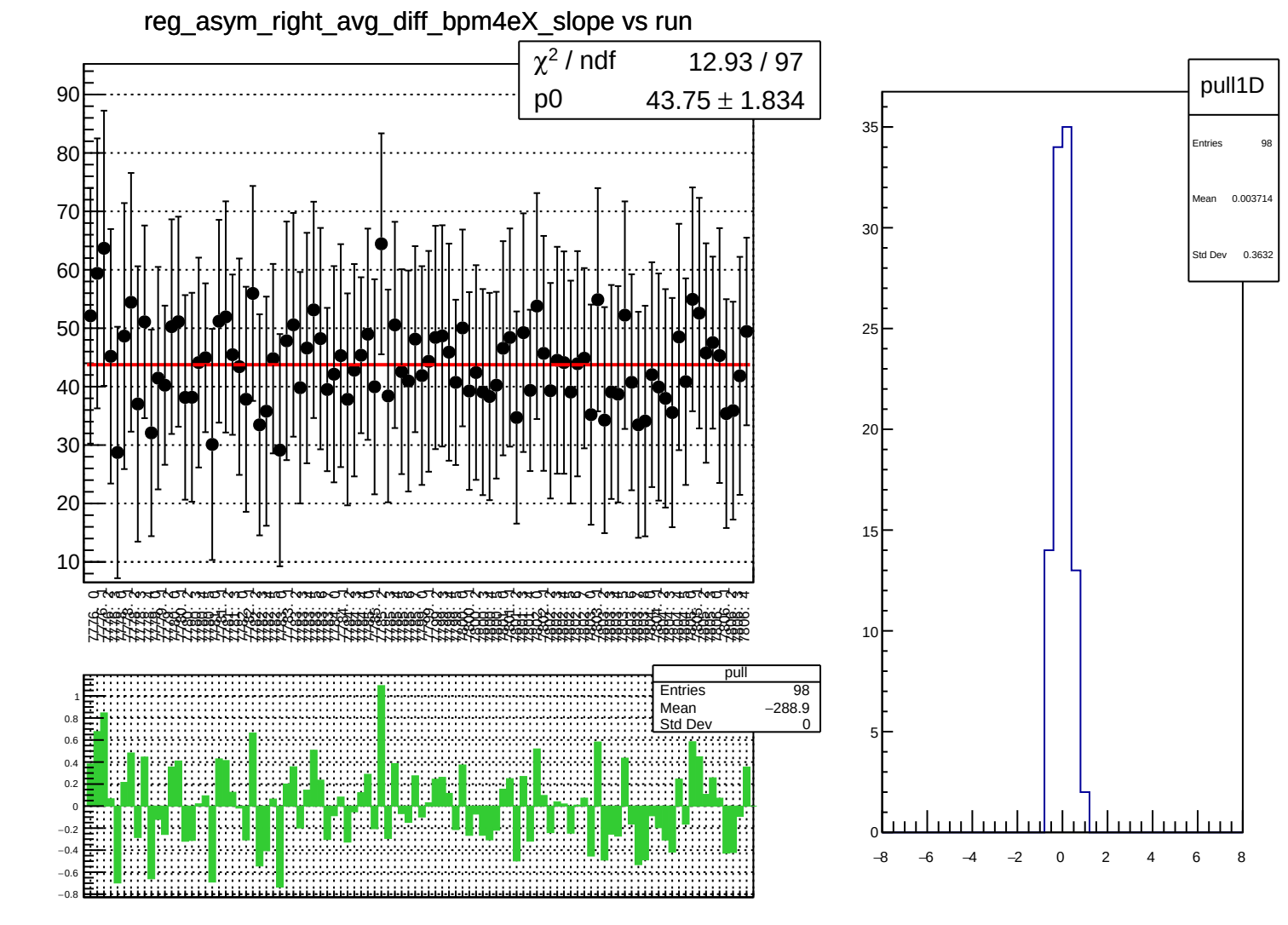

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.53 / 97
p0 6.697 ± 1.408
pull
Entries 98
Mean 384.9
Std Dev 0

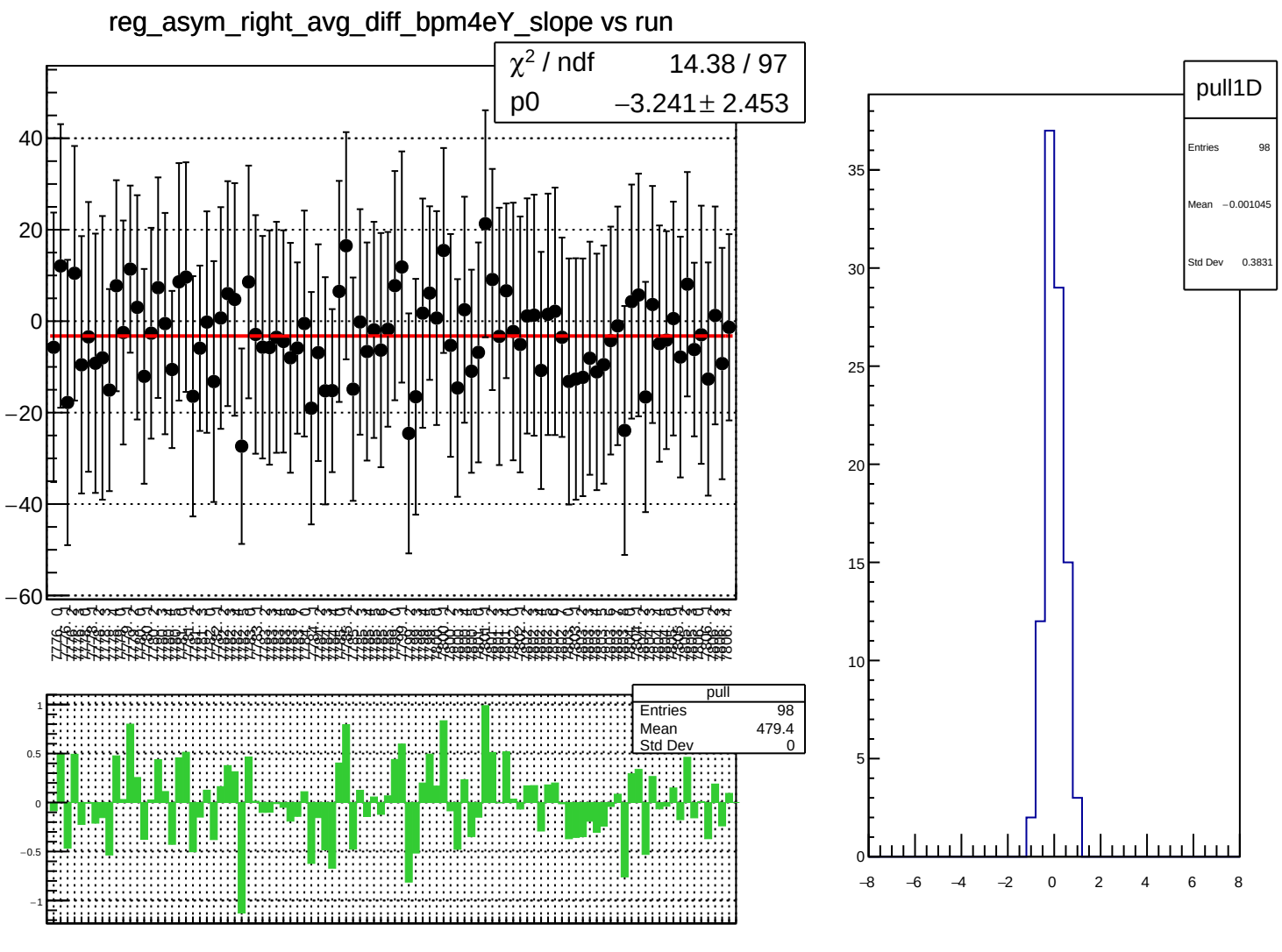

pull1D
Entries 98
Mean 0.004819
Std Dev 0.5672

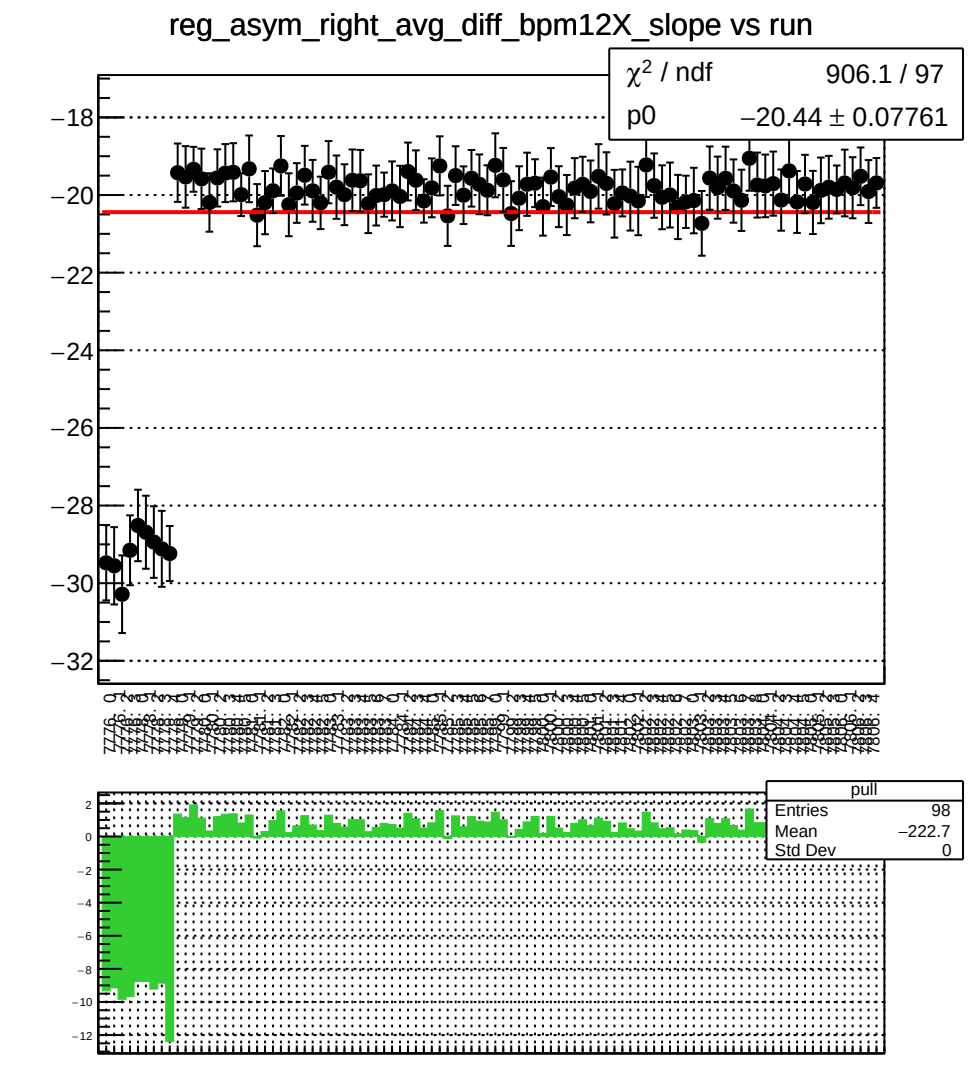

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 537.4 / 97
p0 −20.37 ± 0.04457
pull
Entries 98
Mean 1732
Std Dev 0
pull1D
Entries 98
Mean −0.1241
Std Dev 2.109

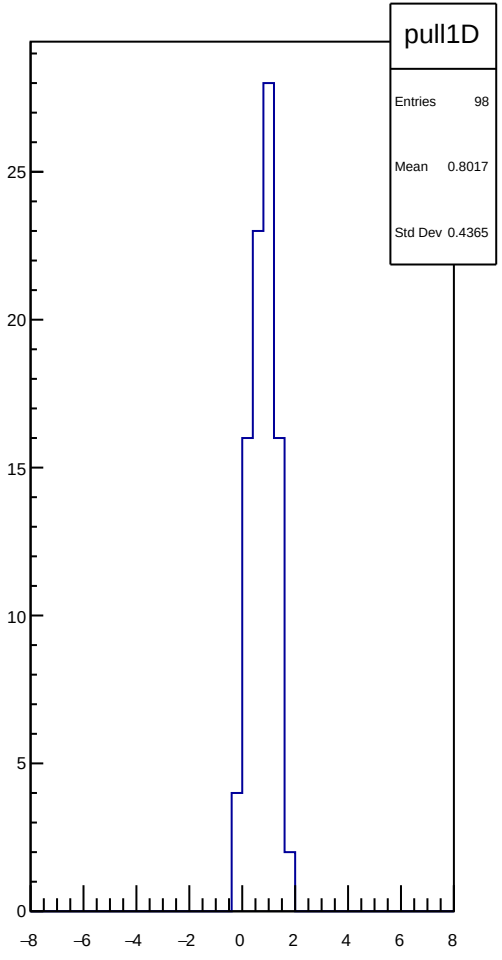

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 12.53 / 97
p0 −13.93 ± 2.109
pull
Entries 98
Mean −394.4
Std Dev 0
pull1D
Entries 98
Mean −0.001853
Std Dev 0.3576

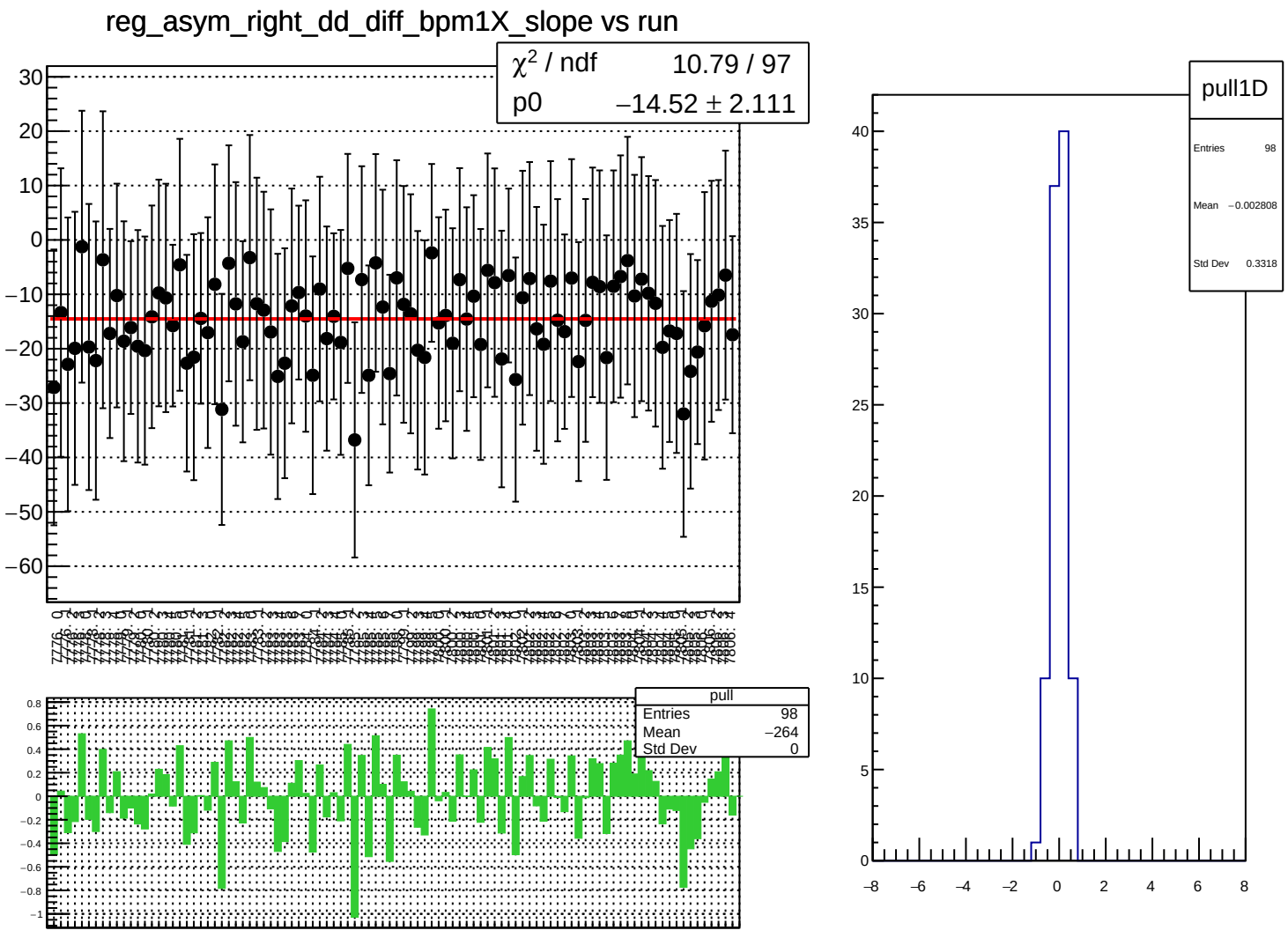

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.04 / 97
p0 10.82 ± 2.169
pull
Entries 98
Mean −15.69
Std Dev 45.1
pull1D
Entries 98
Mean 0.004103
Std Dev 0.3917

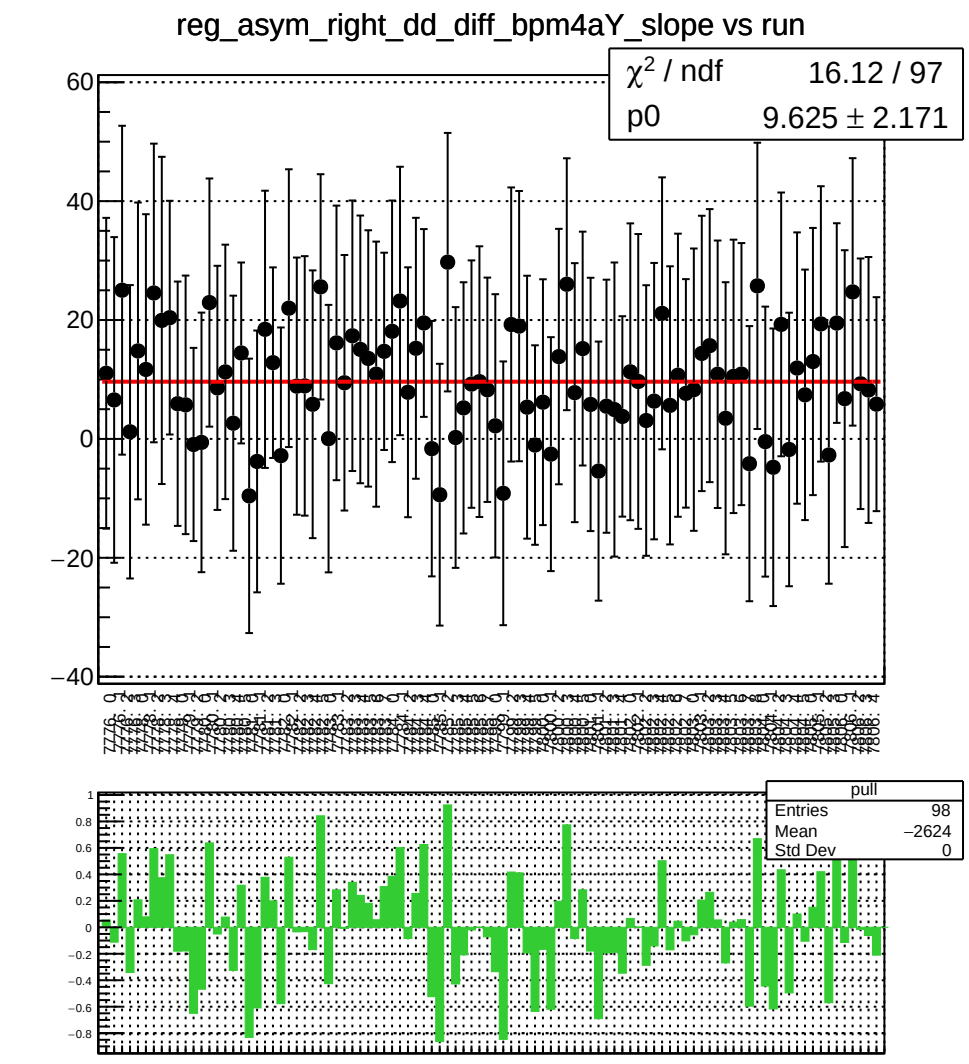

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.93 / 97
p0 43.75 ± 1.834
pull
Entries 98
Mean −288.9
Std Dev 0
pull1D
Entries 98
Mean 0.003714
Std Dev 0.3632

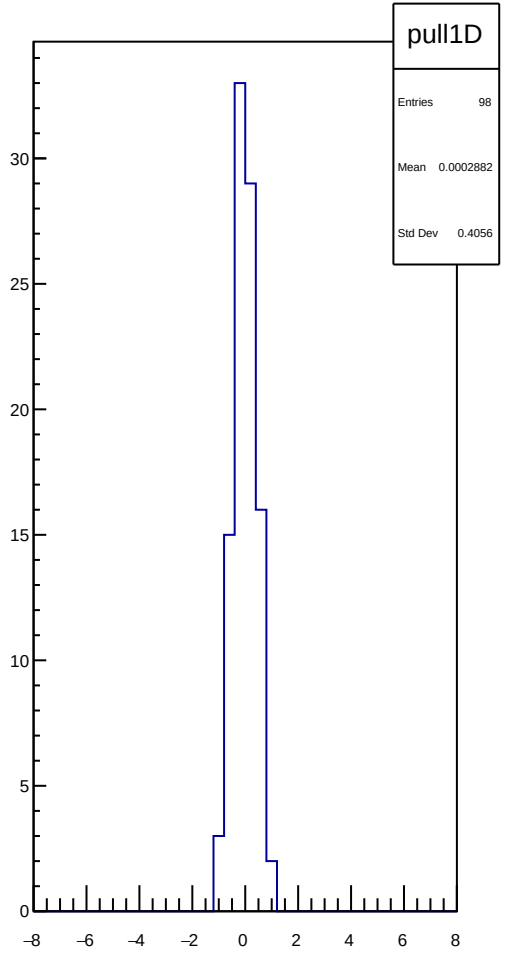

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.38 / 97
p0 −3.241 ± 2.453
pull
Entries 98
Mean 479.4
Std Dev 0
pull1D
Entries 98
Mean −0.001045
Std Dev 0.3831

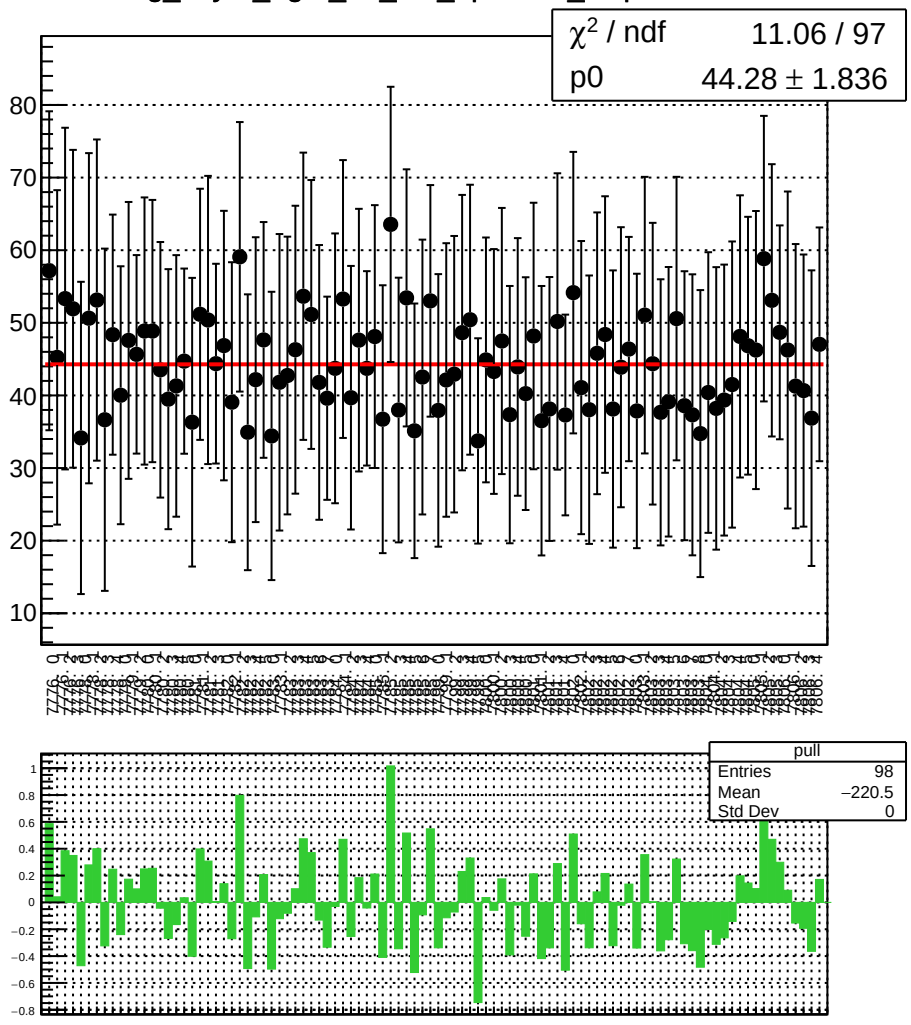

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 906.1 / 97
p0 −20.44 ± 0.07761
pull
Entries 98
Mean −222.7
Std Dev 0

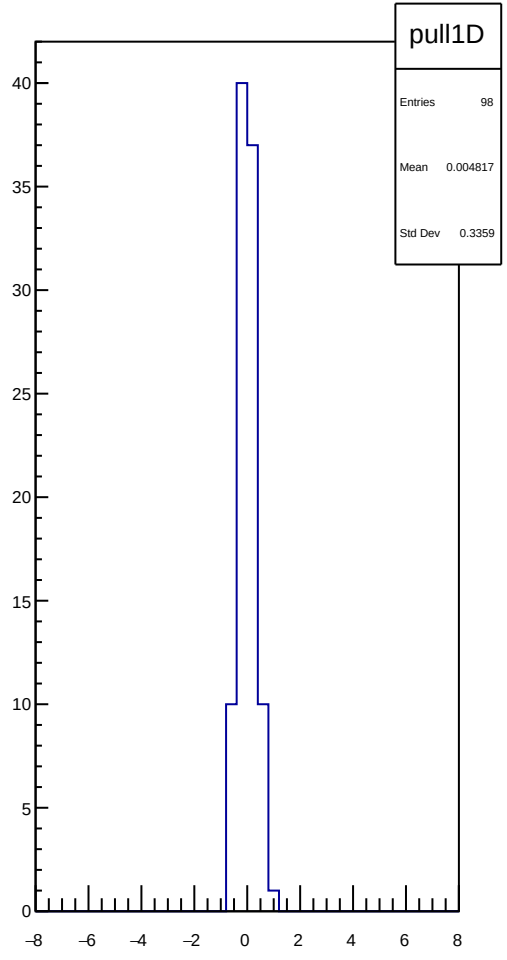

pull1D
Entries 98
Mean 0.8017
Std Dev 0.4365

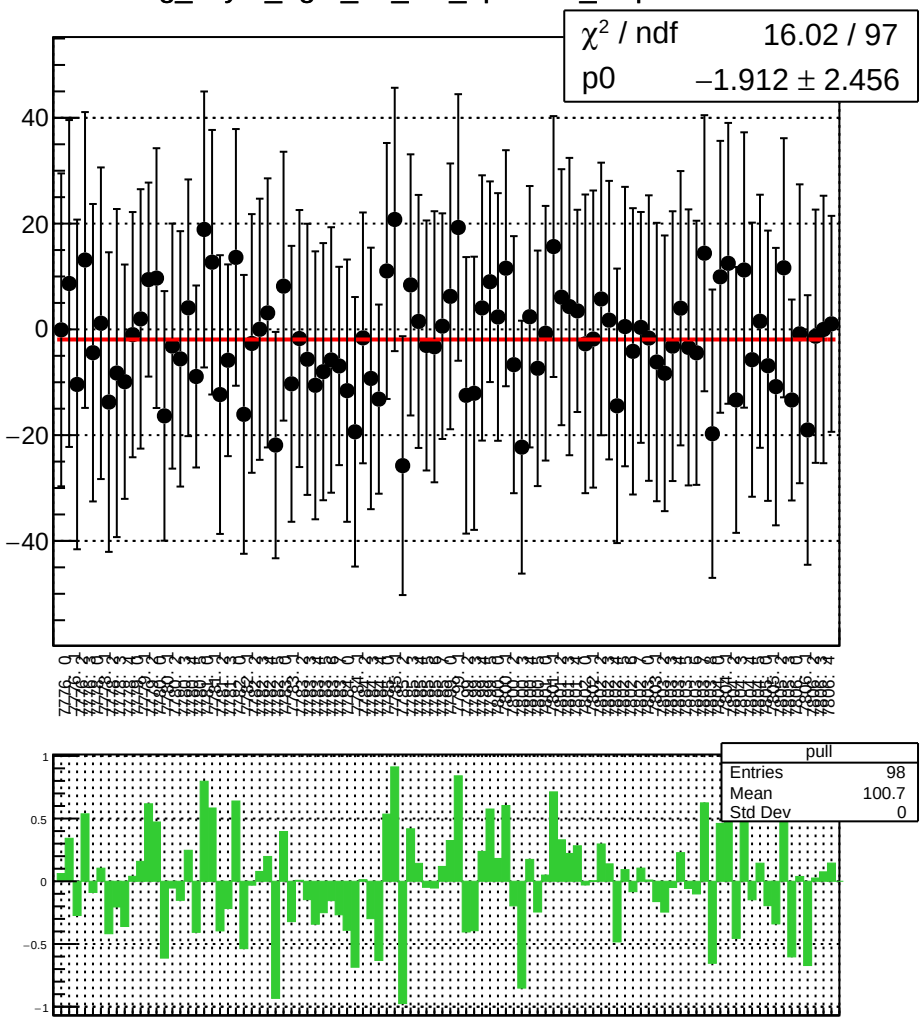

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 10.79 / 97
p0 −14.52 ± 2.111
pull
Entries 98
Mean −264
Std Dev 0
pull1D
Entries 98
Mean −0.002808
Std Dev 0.3318

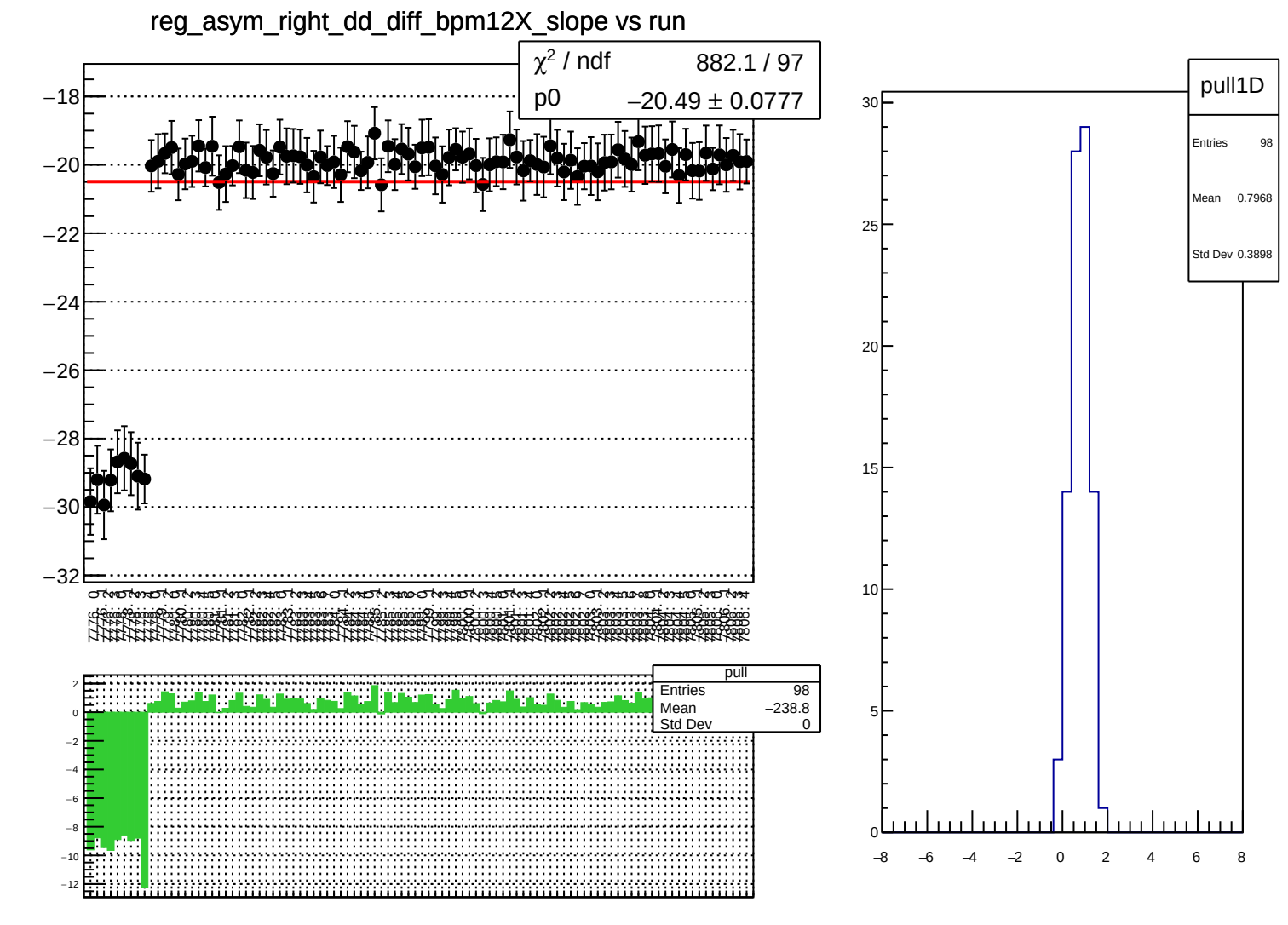

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.12 / 97
p0 9.625 ± 2.171
pull
Entries 98
Mean −2624
Std Dev 0

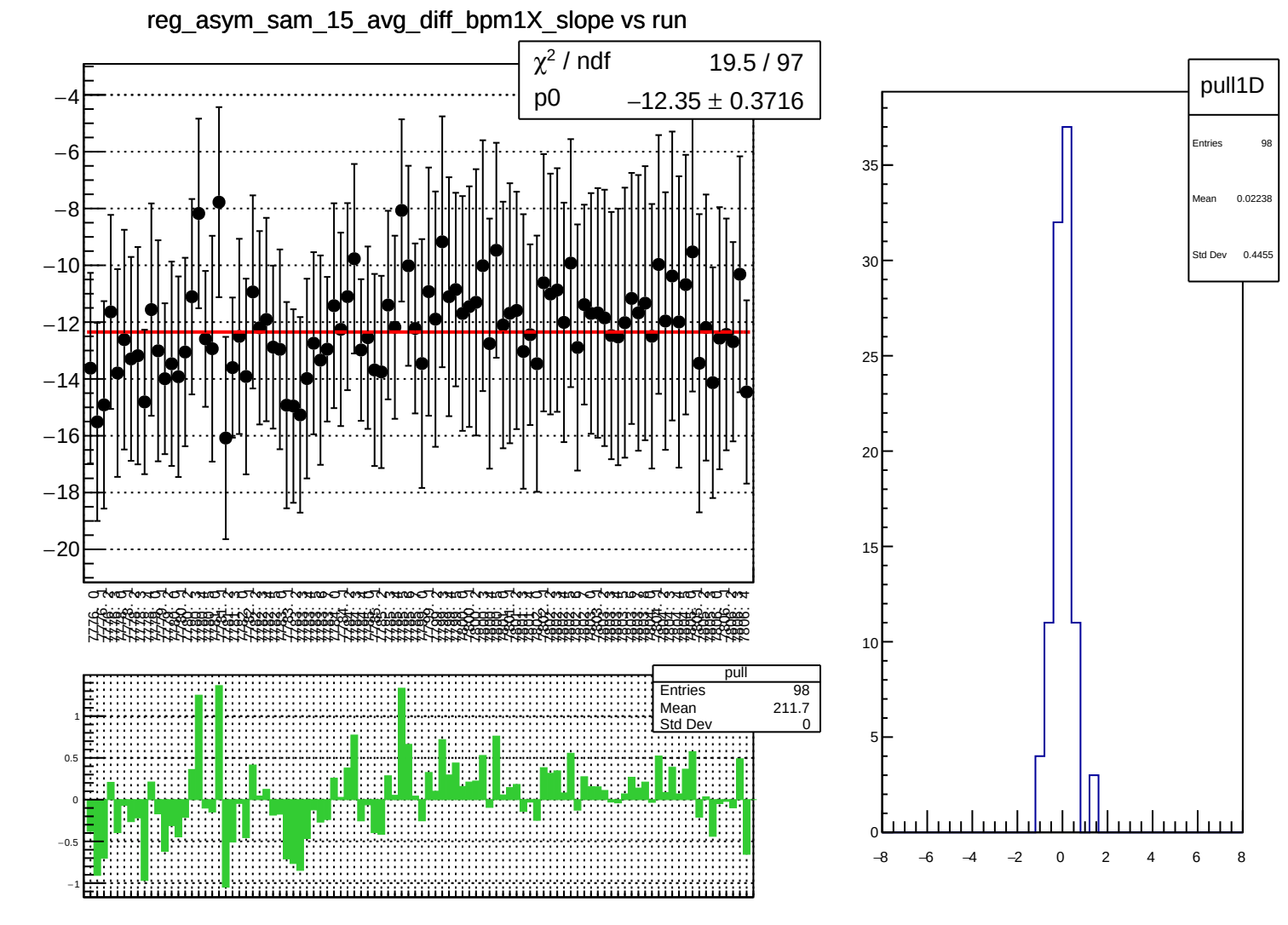

pull1D
Entries 98
Mean 0.0002882
Std Dev 0.4056

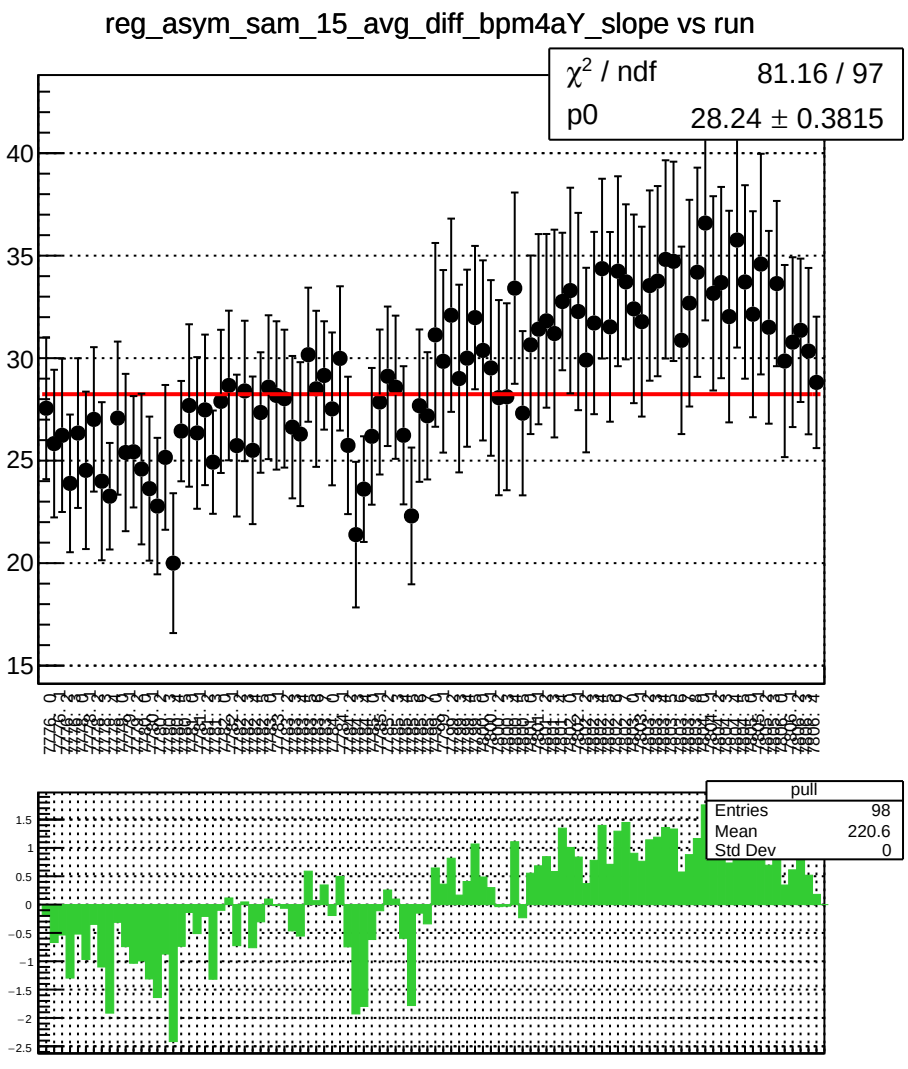

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.06 / 97
p0 44.28 ± 1.836
pull
Entries 98
Mean −220.5
Std Dev 0

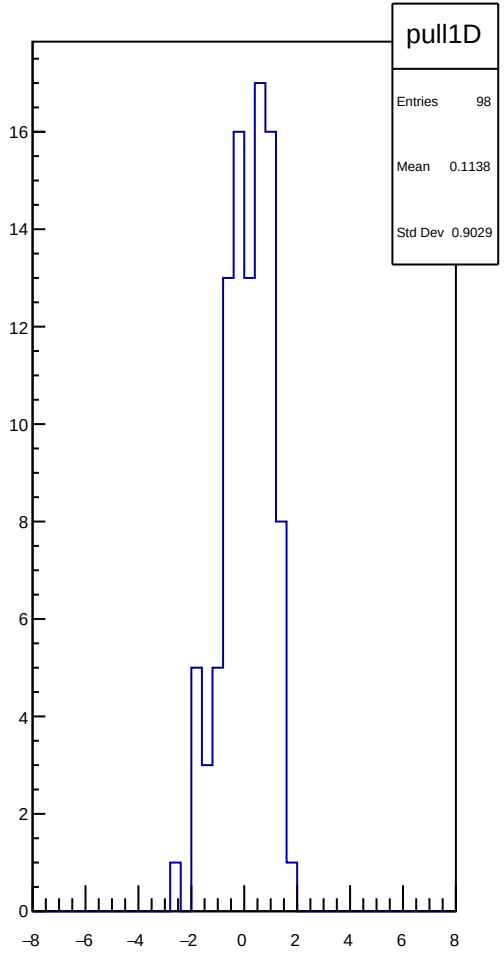

pull1D
Entries 98
Mean 0.004817
Std Dev 0.3359

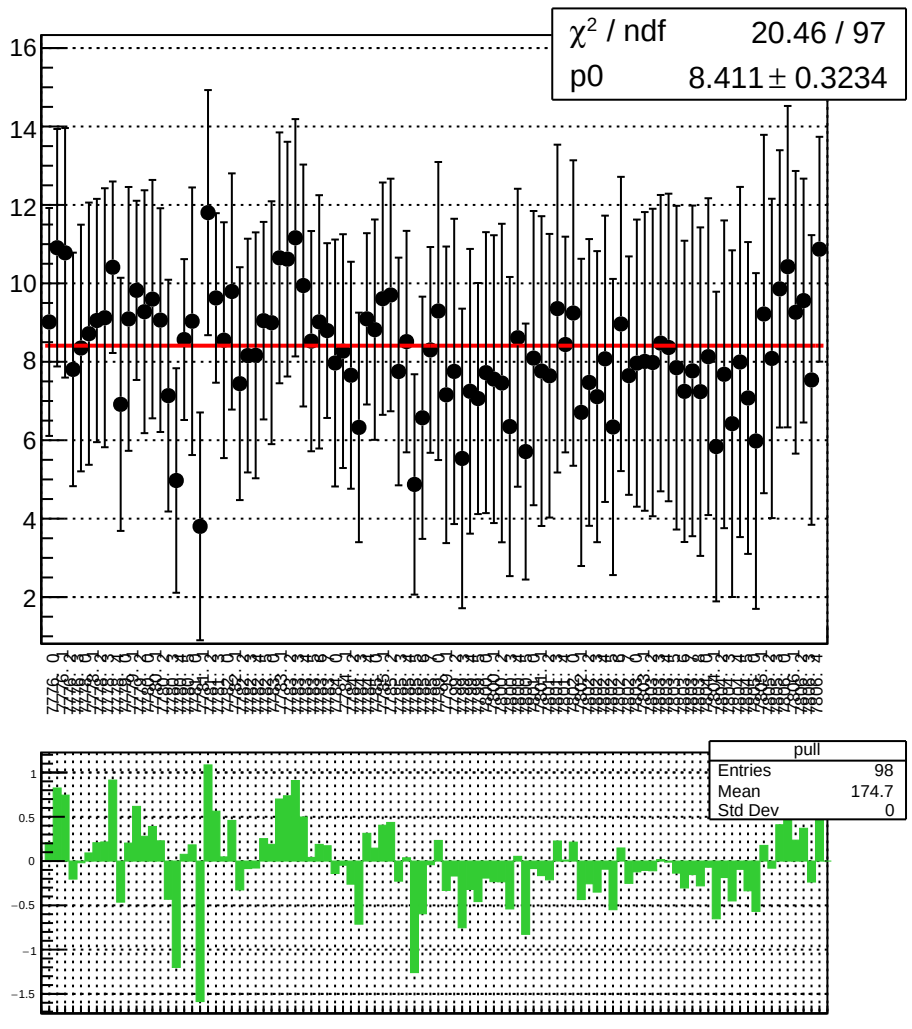

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.02 / 97
p0 −1.912 ± 2.456
pull
Entries 98
Mean 100.7
Std Dev 0
pull1D
Entries 98
Mean 0.003392
Std Dev 0.4043

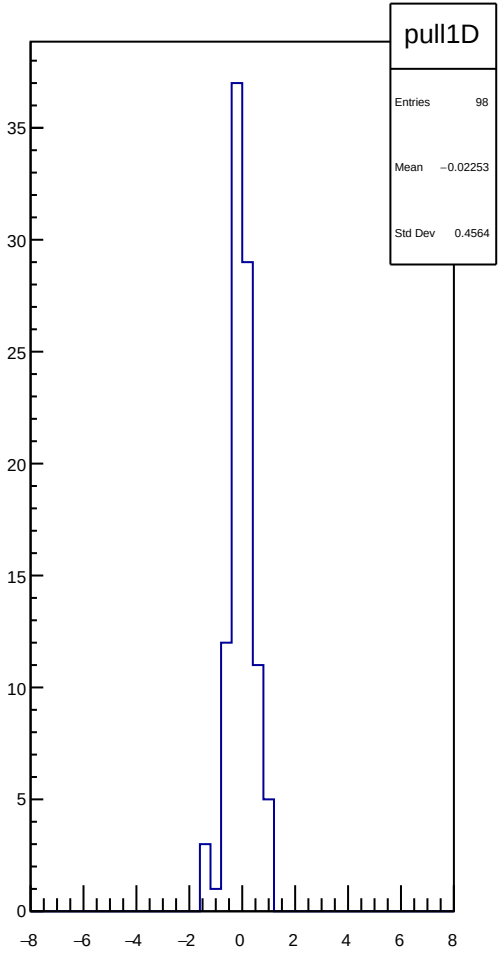

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 882.1 / 97
p0 −20.49 ± 0.0777
pull
Entries 98
Mean −238.8
Std Dev 0
pull1D
Entries 98
Mean 0.7968
Std Dev 0.3898

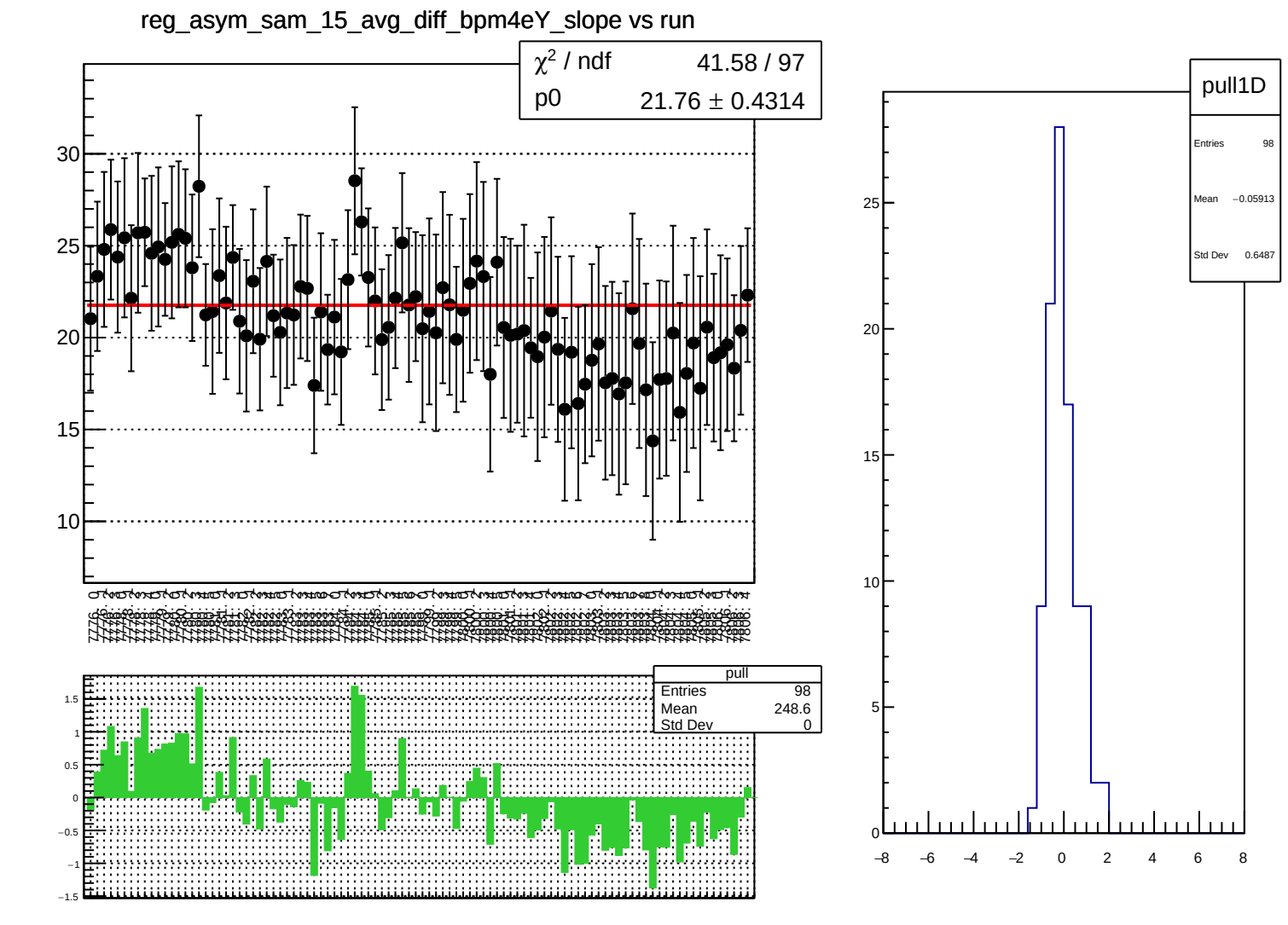

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 19.5 / 97
p0 −12.35 ± 0.3716
pull
Entries 98
Mean 211.7
Std Dev 0
pull1D
Entries 98
Mean 0.02238
Std Dev 0.4455

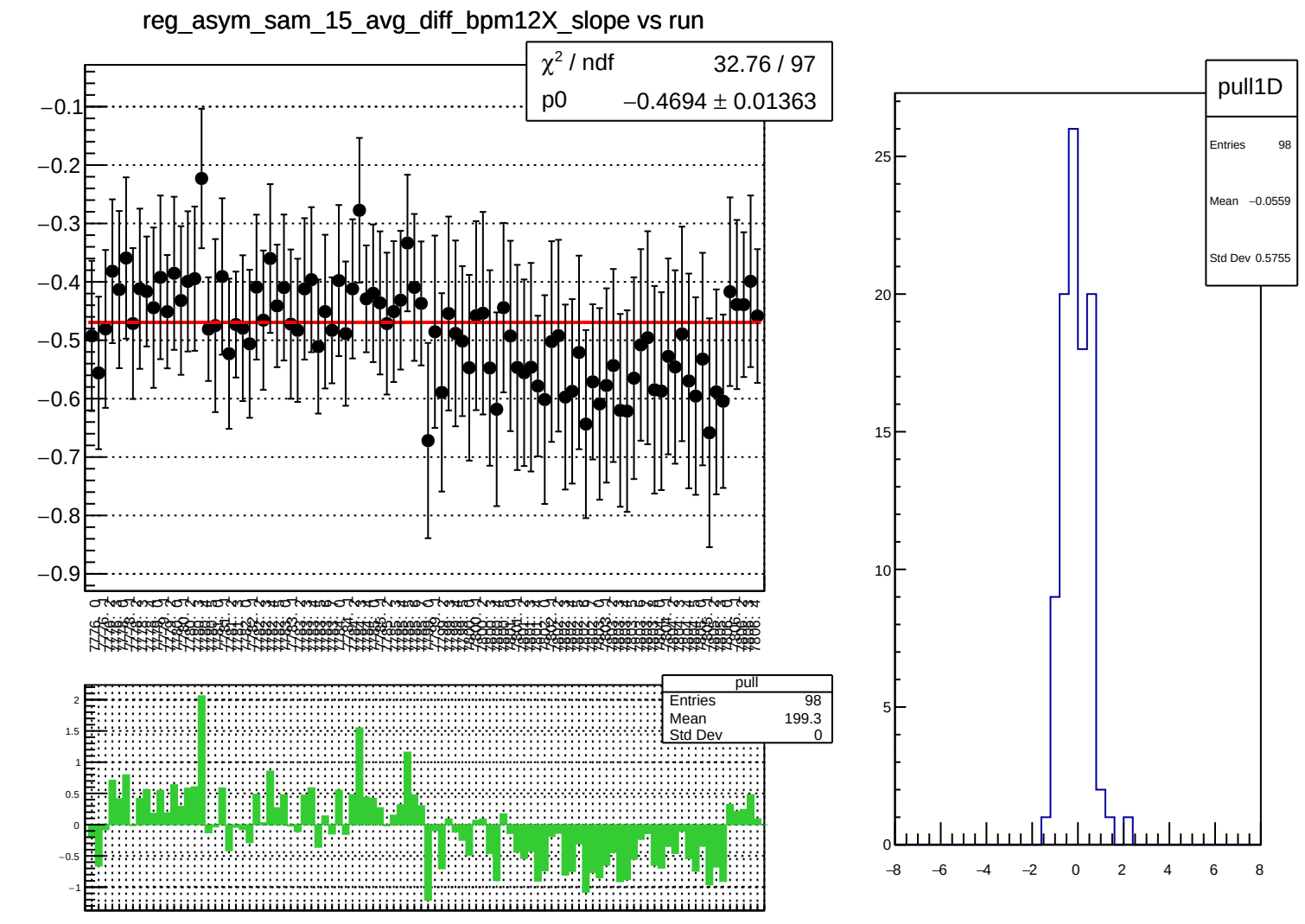

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 81.16 / 97
p0 28.24 ± 0.3815
pull
Entries 98
Mean 220.6
Std Dev 0

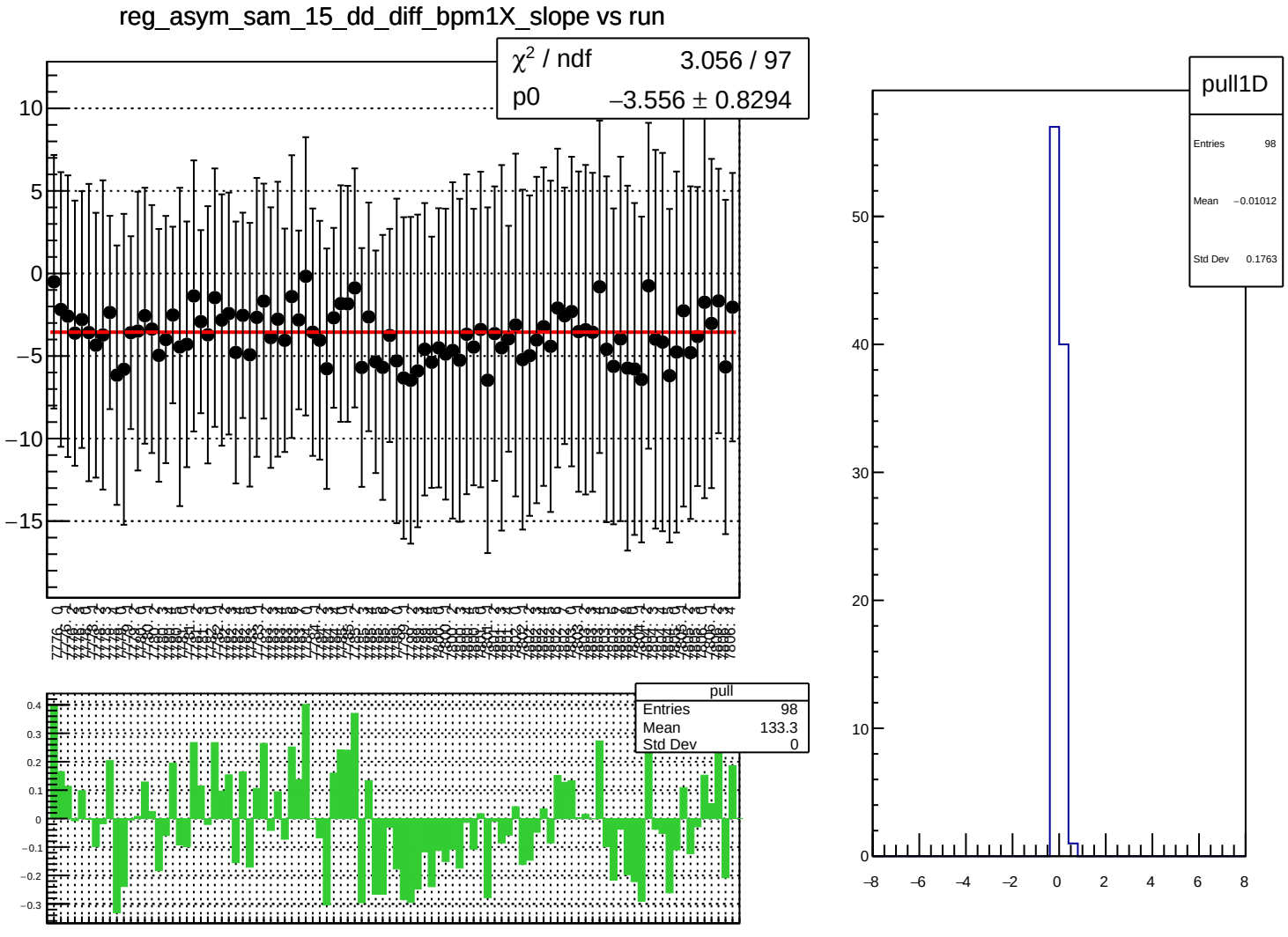

pull1D
Entries 98
Mean 0.1138
Std Dev 0.9029

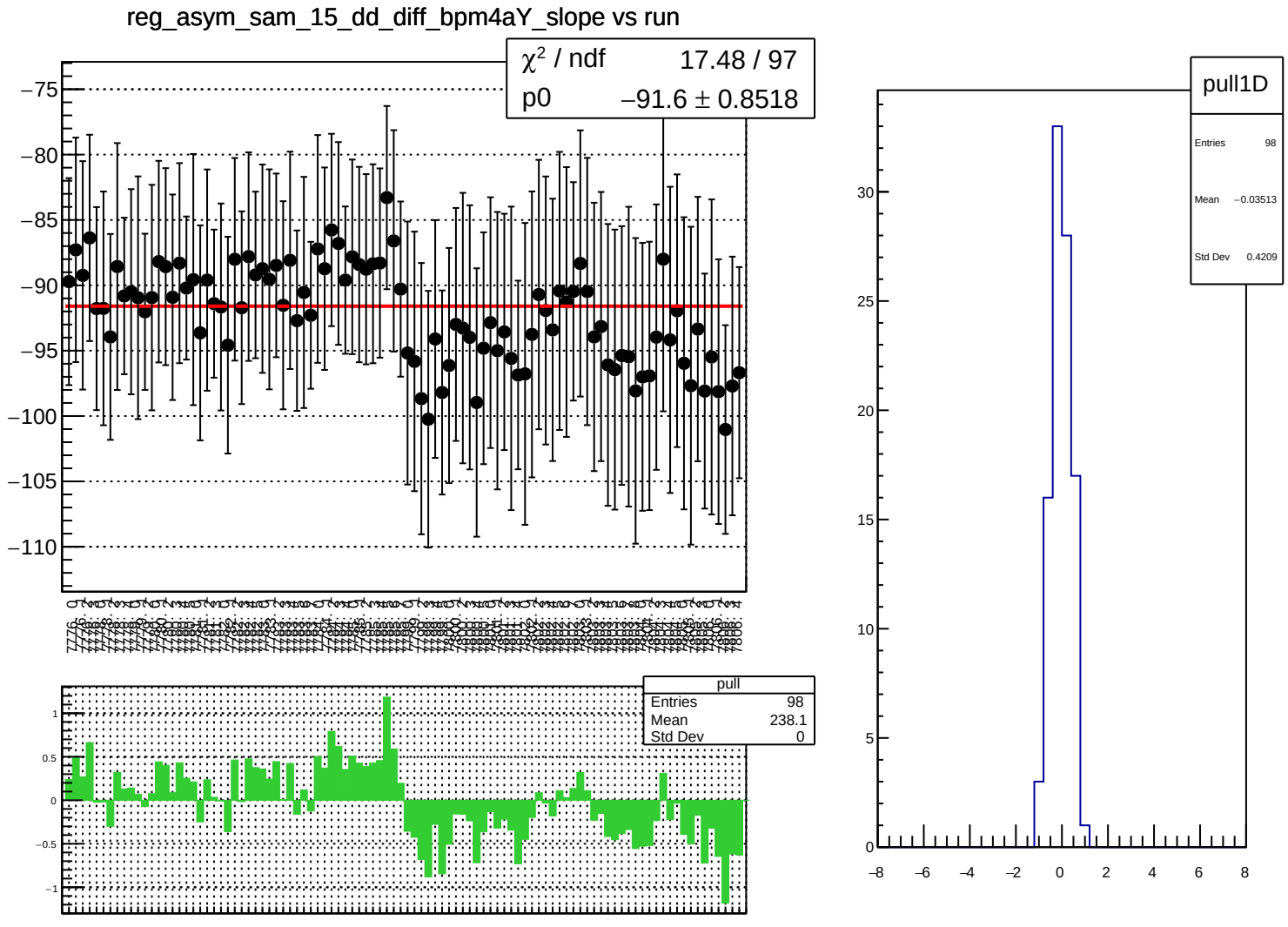

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.46 / 97
p0 8.411 ± 0.3234
pull
Entries 98
Mean 174.7
Std Dev 0

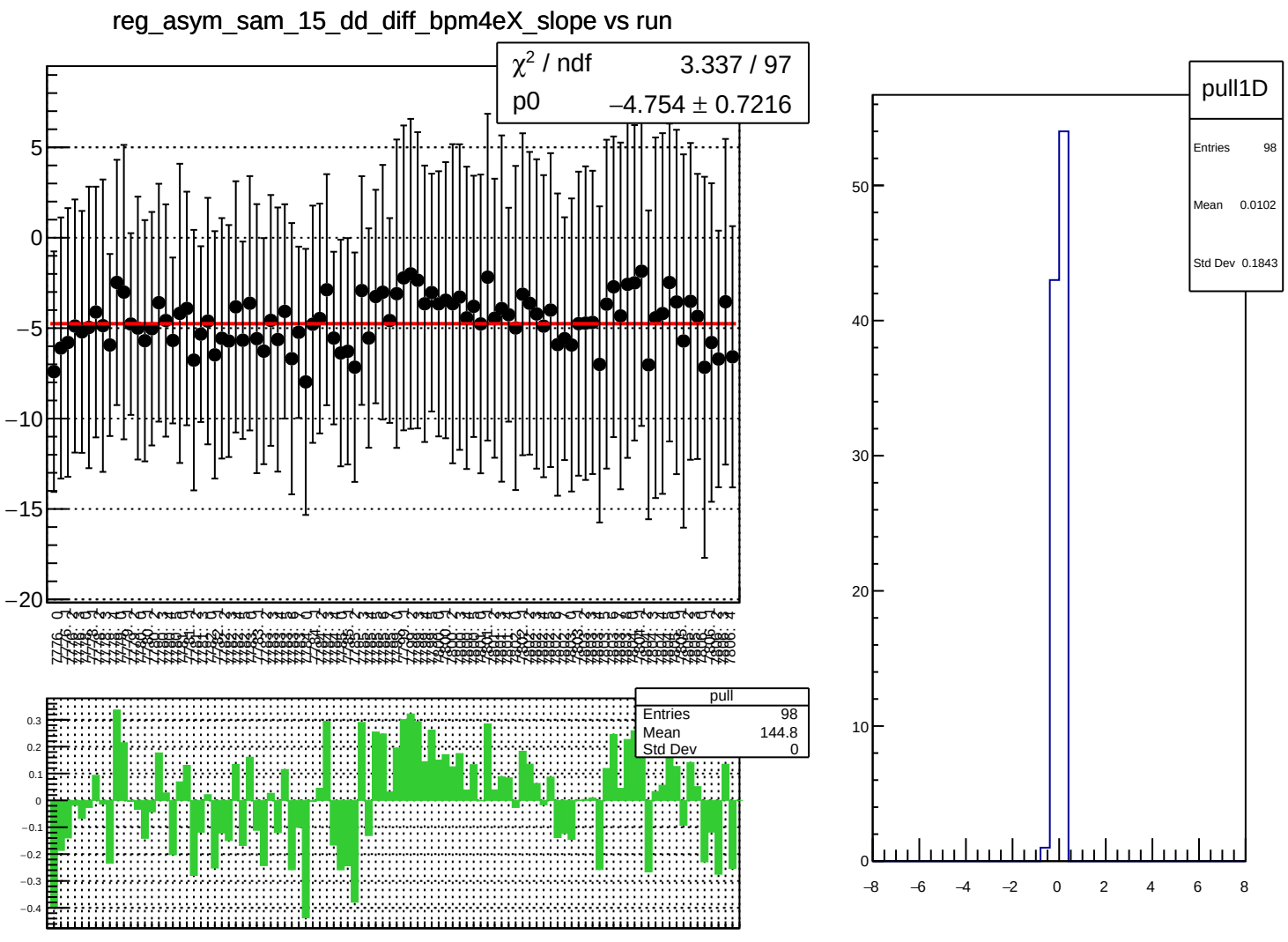

pull1D
Entries 98
Mean −0.02253
Std Dev 0.4564

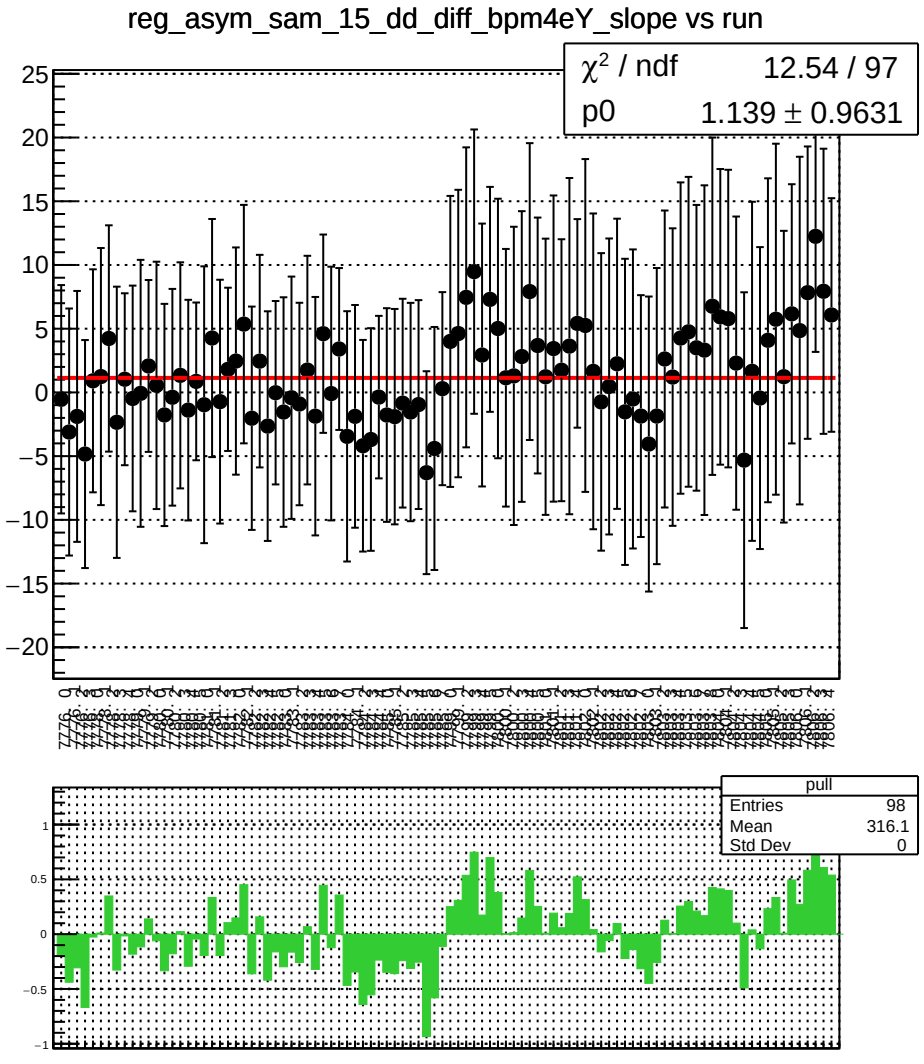

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.58 / 97
p0 21.76 ± 0.4314
pull
Entries 98
Mean 248.6
Std Dev 0
pull1D
Entries 98
Mean −0.05913
Std Dev 0.6487

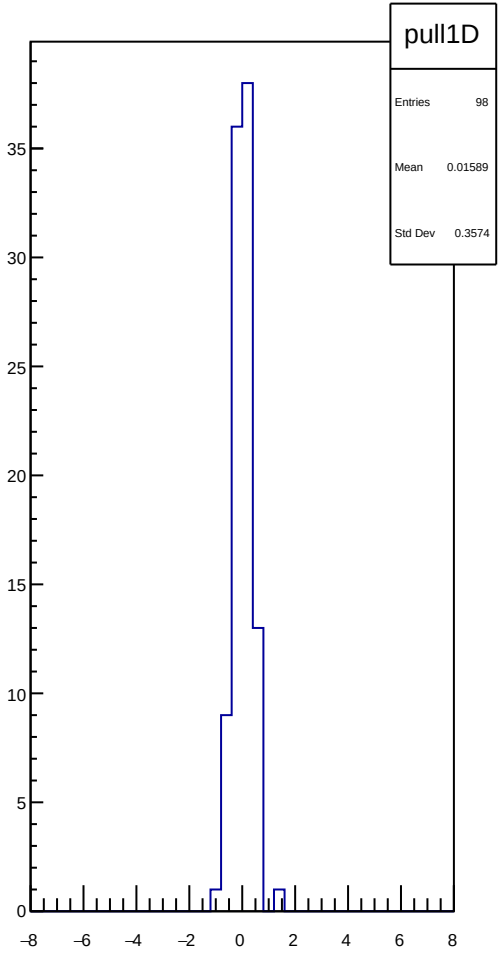

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 32.76 / 97
p0 −0.4694 ± 0.01363
pull
Entries 98
Mean 199.3
Std Dev 0
pull1D
Entries 98
Mean −0.0559
Std Dev 0.5755

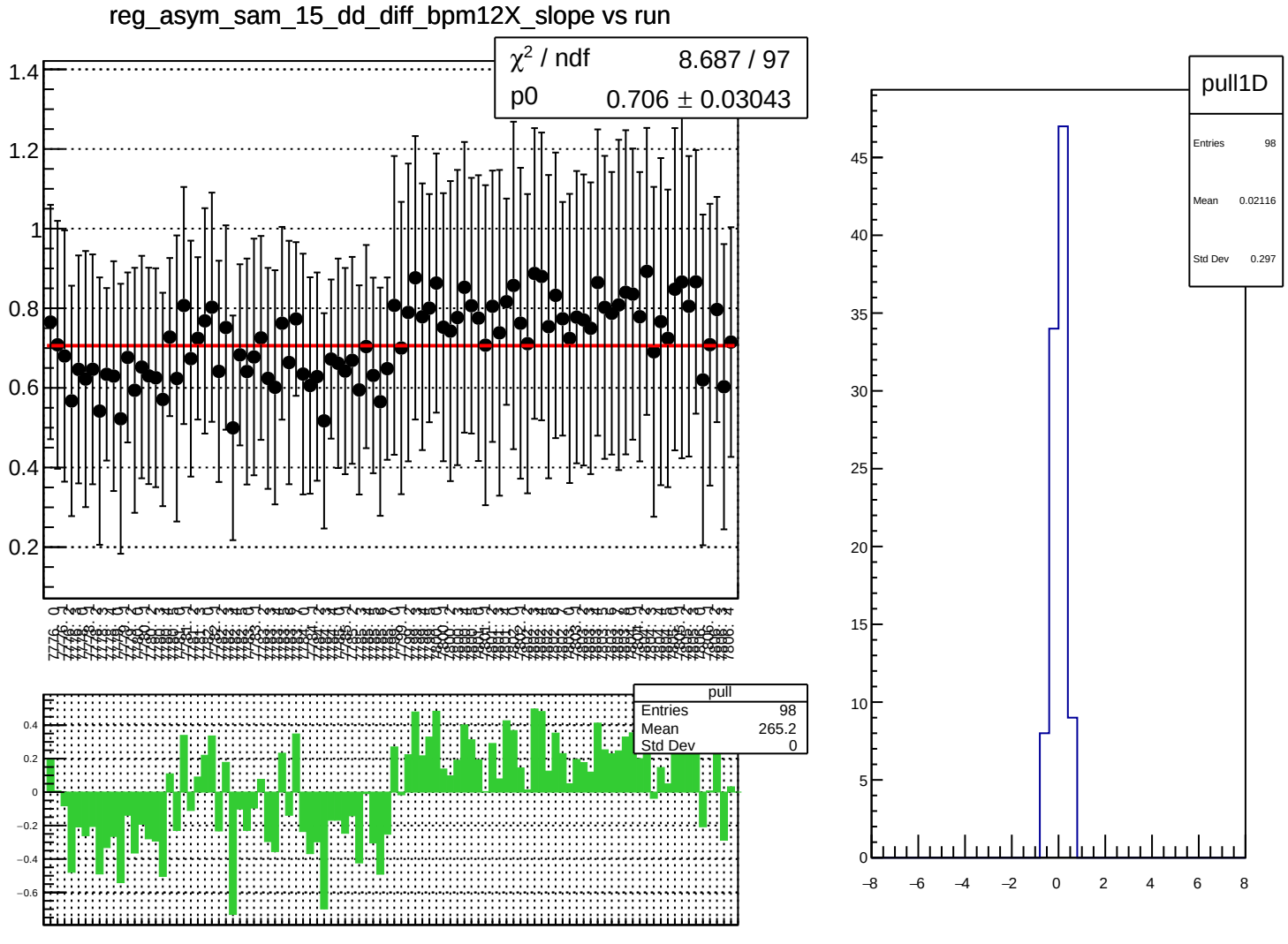

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 3.056 / 97
p0 −3.556 ± 0.8294
pull
Entries 98
Mean 133.3
Std Dev 0
pull1D
Entries 98
Mean −0.01012
Std Dev 0.1763

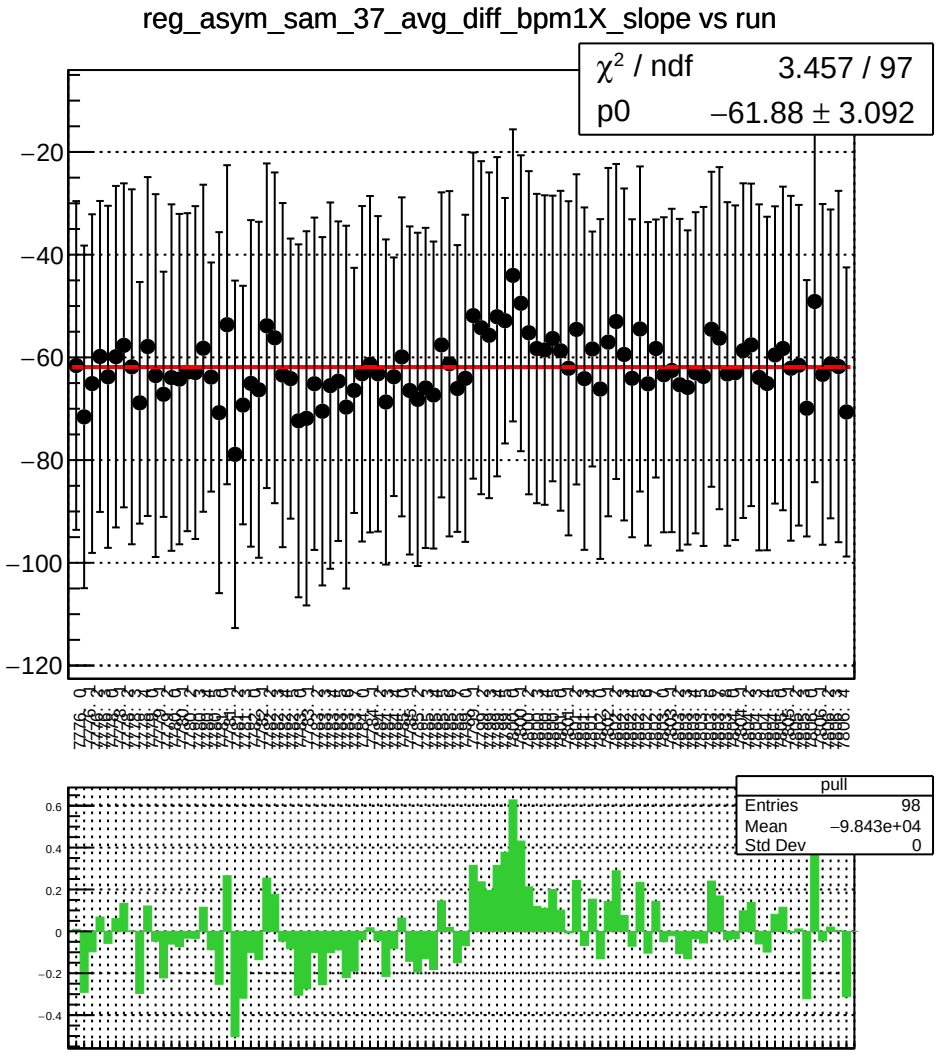

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.48 / 97
p0 −91.6 ± 0.8518
−75
−80
−85
−90
−95
−100
−105
−110
pull
Entries 98
Mean 238.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean −0.03513
Std Dev 0.4209
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

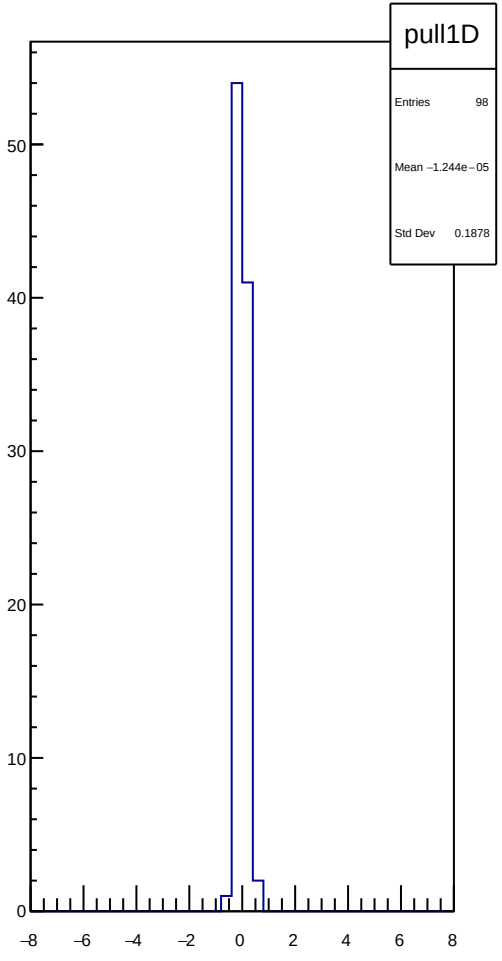

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.337 / 97
p0 −4.754 ± 0.7216
pull
Entries 98
Mean 144.8
Std Dev 0
pull1D
Entries 98
Mean 0.0102
Std Dev 0.1843

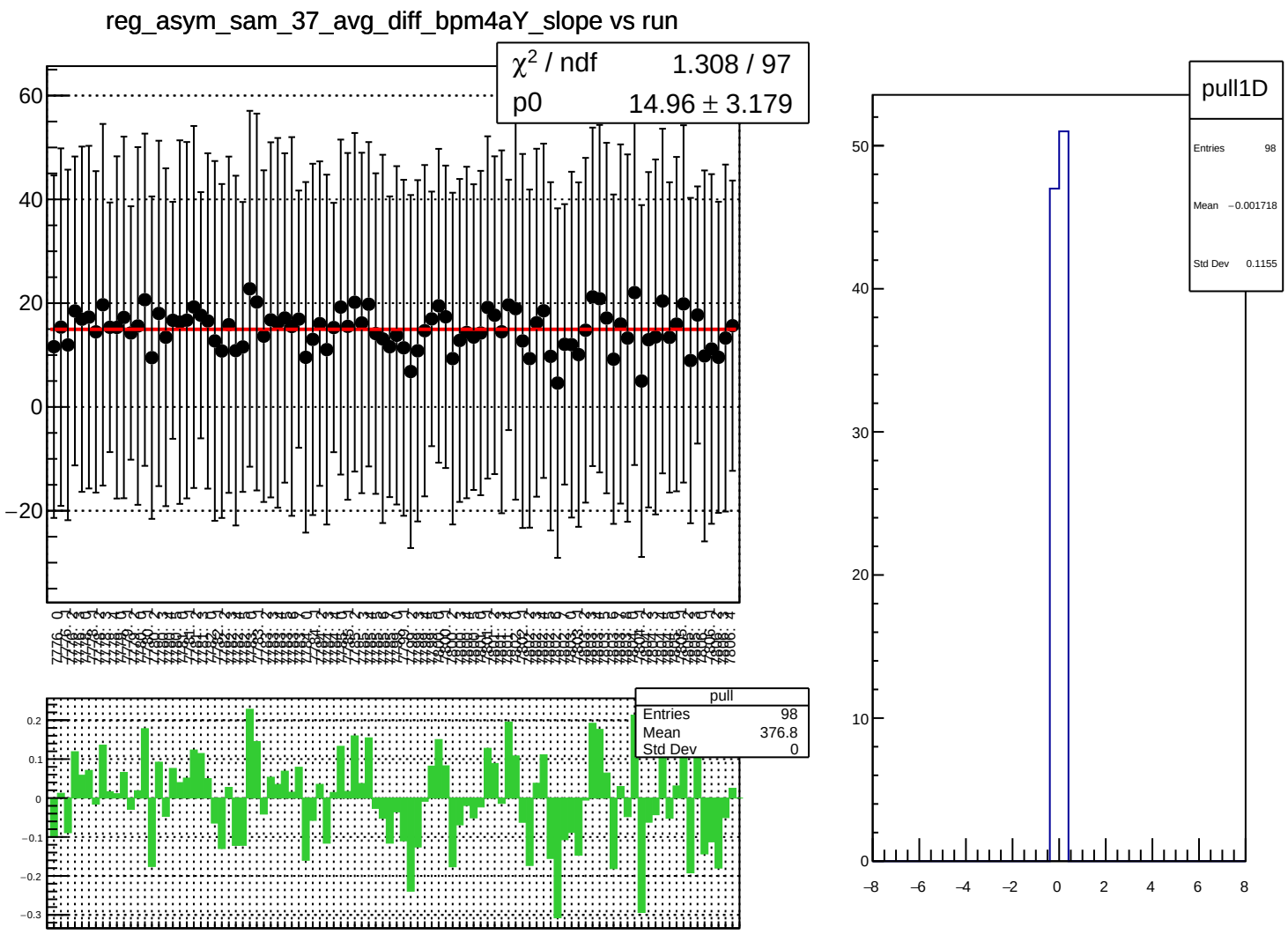

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.54 / 97
p0 1.139 ± 0.9631
pull
Entries 98
Mean 316.1
Std Dev 0

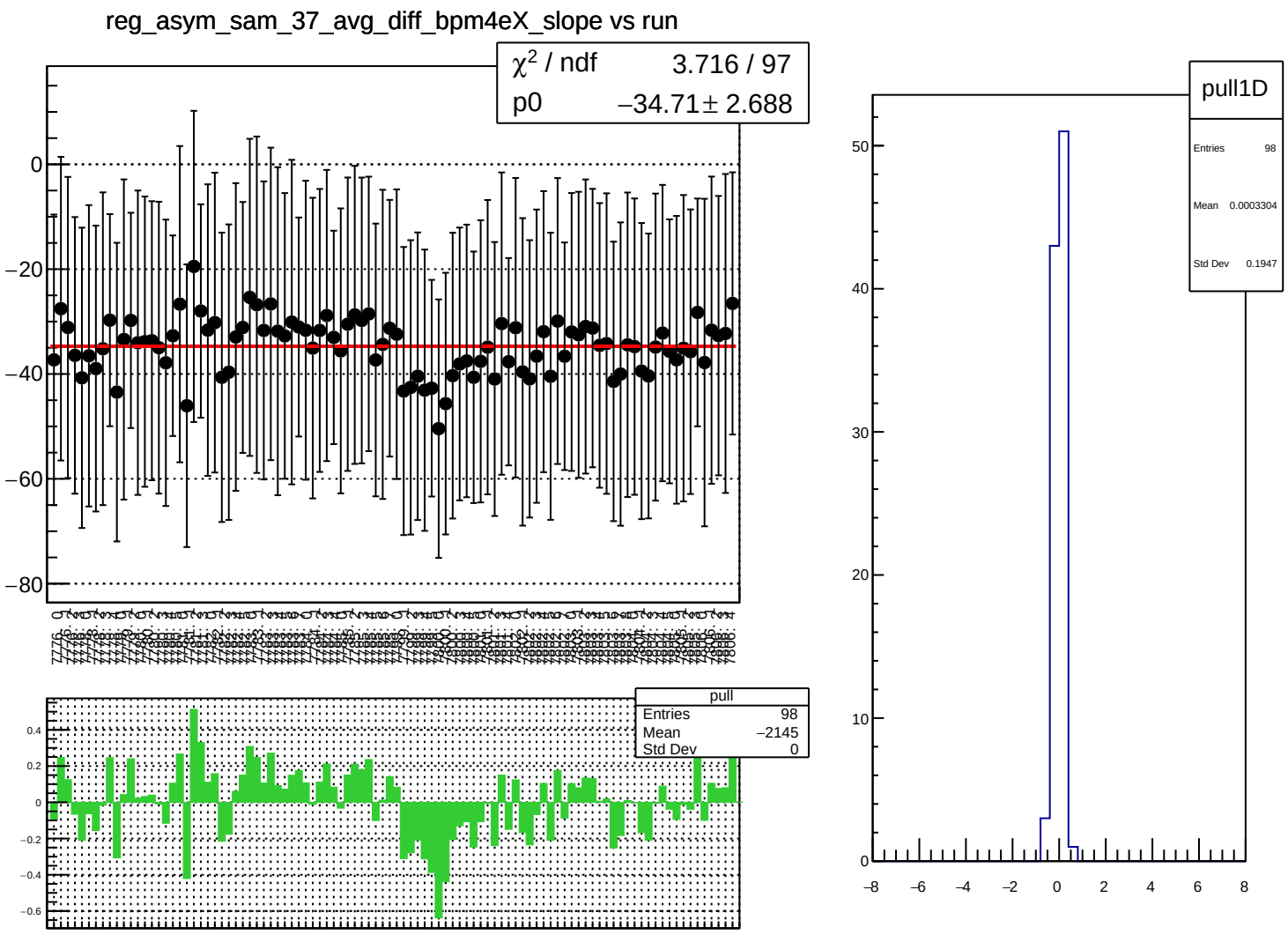

pull1D
Entries 98
Mean 0.01589
Std Dev 0.3574

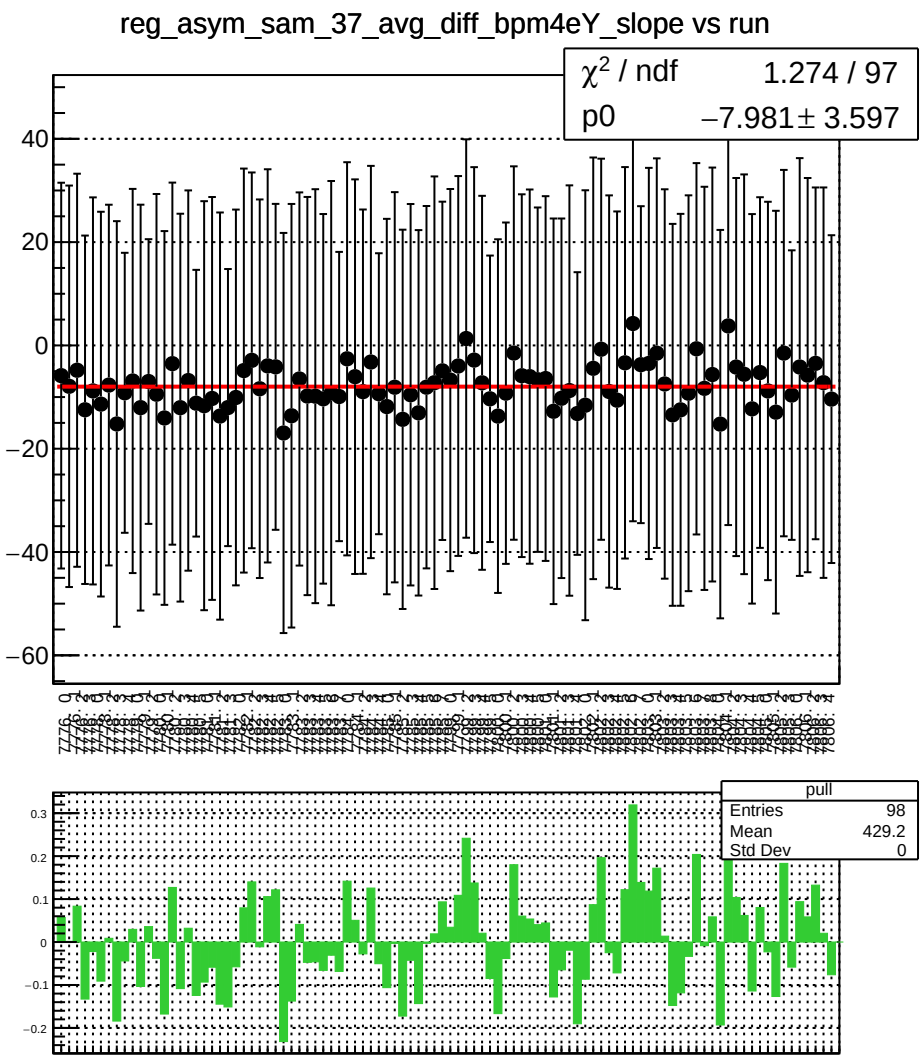

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 8.687 / 97
p0 0.706 ± 0.03043
pull
Entries 98
Mean 265.2
Std Dev 0
pull1D
Entries 98
Mean 0.02116
Std Dev 0.297

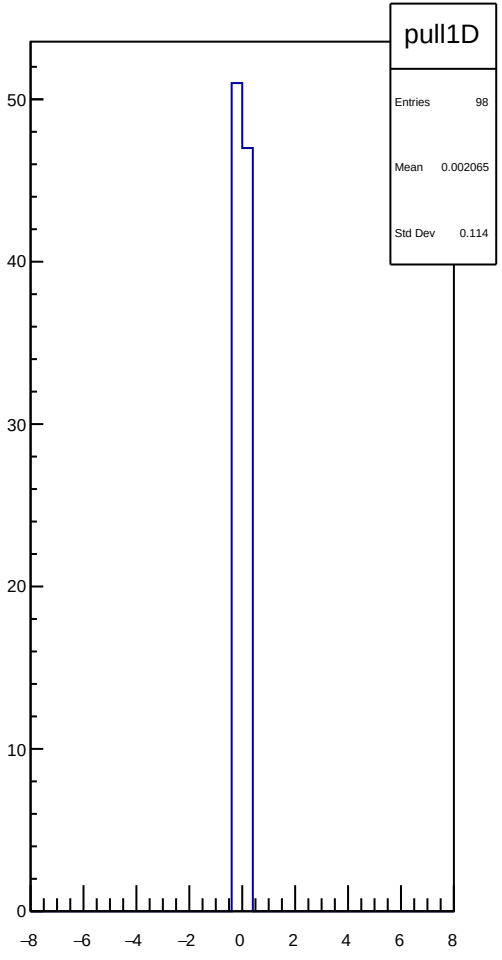

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 3.457 / 97
p0 −61.88 ± 3.092
−20
−40
−60
−80
−100
−120
pull
Entries 98
Mean −9.843e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

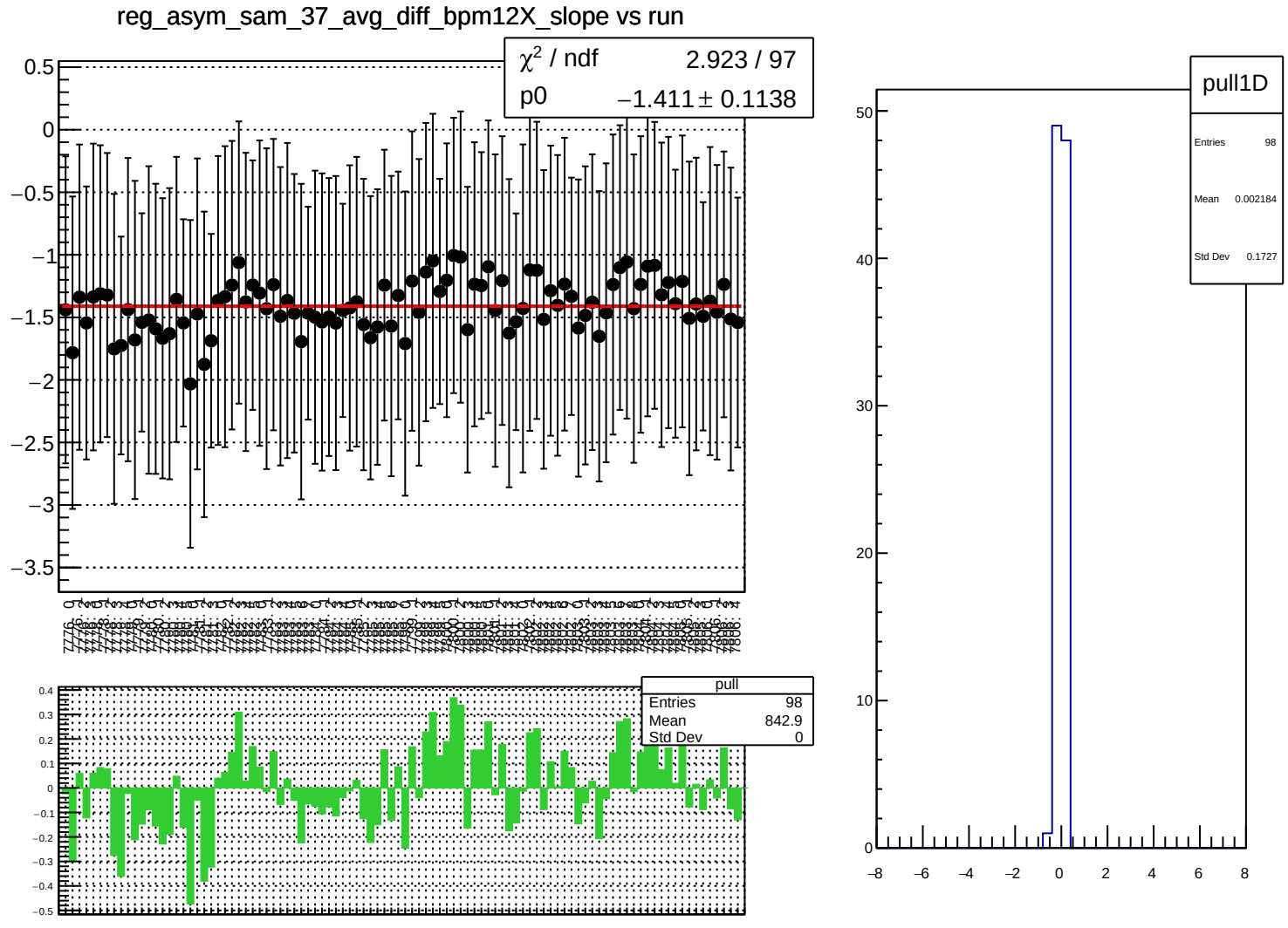

pull1D
Entries 98
Mean −1.244e−05
Std Dev 0.1878
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

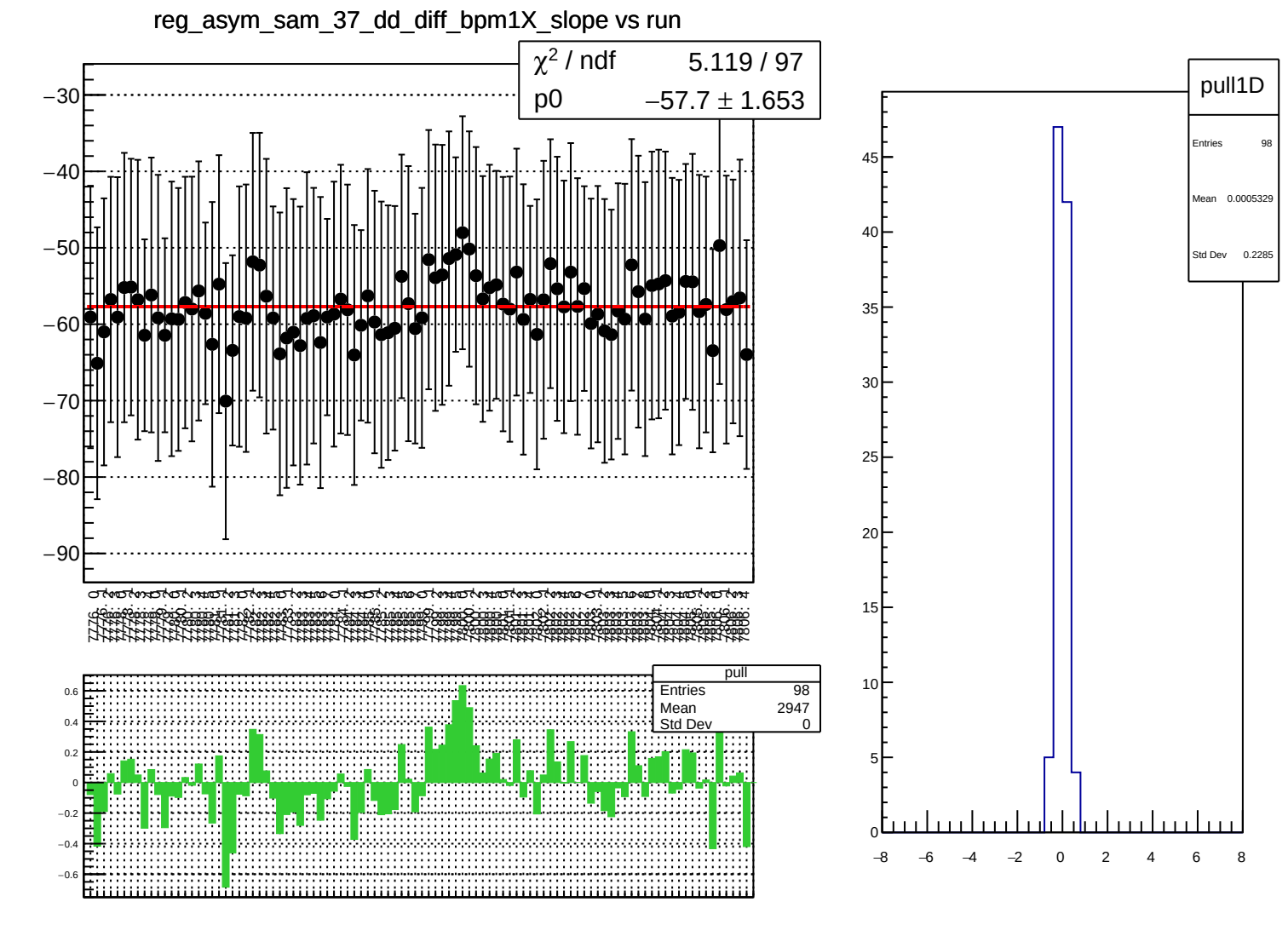

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.308 / 97
p0 14.96 ± 3.179
60
40
20
0
−20
pull
Entries 98
Mean 376.8
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 98
Mean −0.001718
Std Dev 0.1155
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

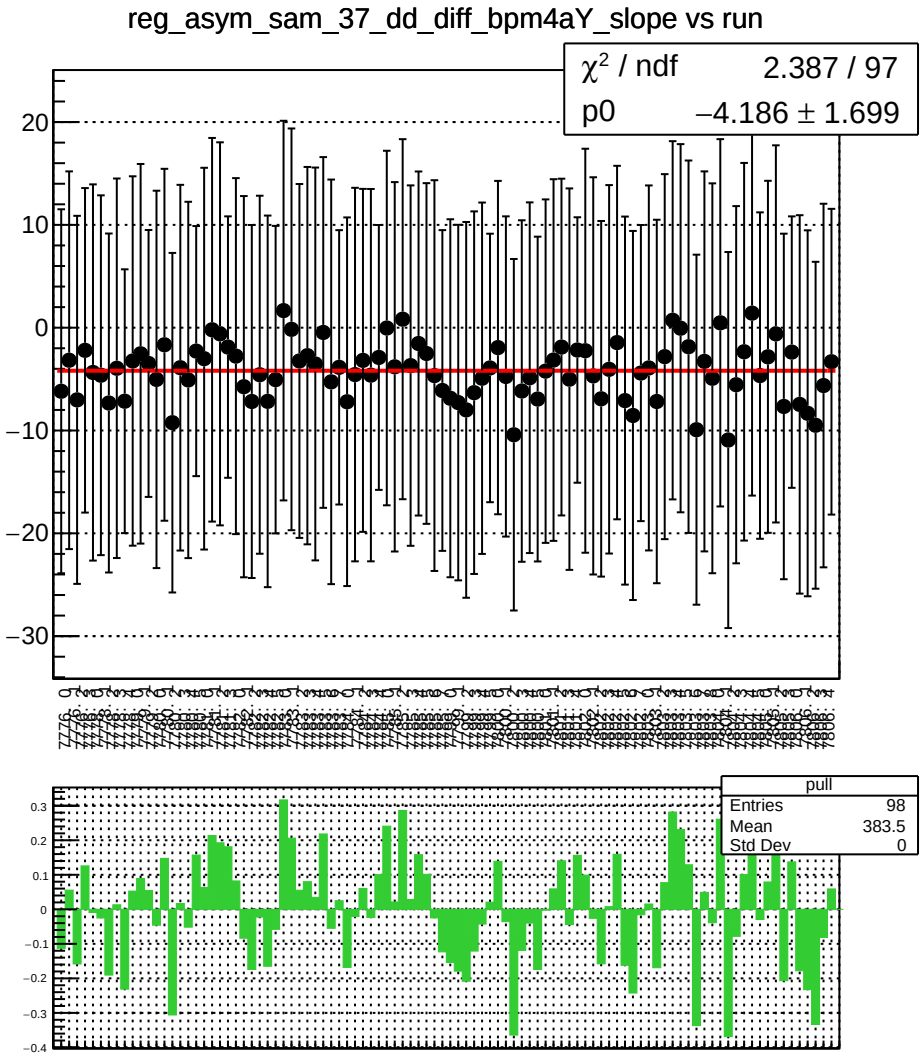

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.716 / 97
p0 −34.71 ± 2.688
0
−20
−40
−60
−80
pull
Entries 98
Mean −2145
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean 0.0003304
Std Dev 0.1947
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

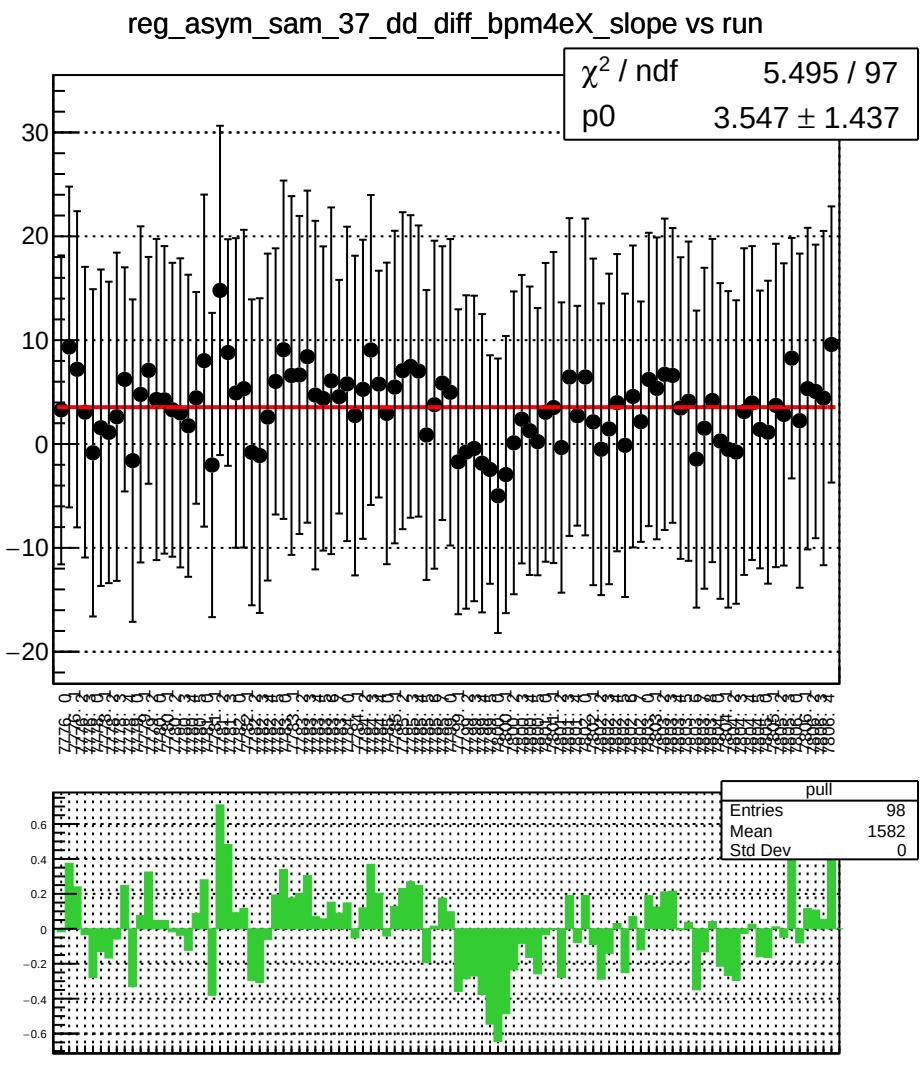

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.274 / 97
p0 −7.981 ± 3.597
pull
Entries 98
Mean 429.2
Std Dev 0

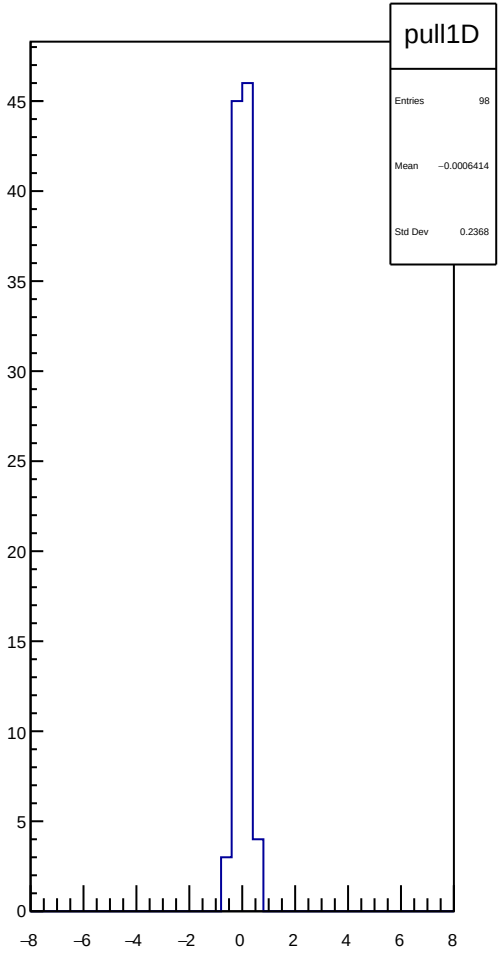

pull1D
Entries 98
Mean 0.002065
Std Dev 0.114

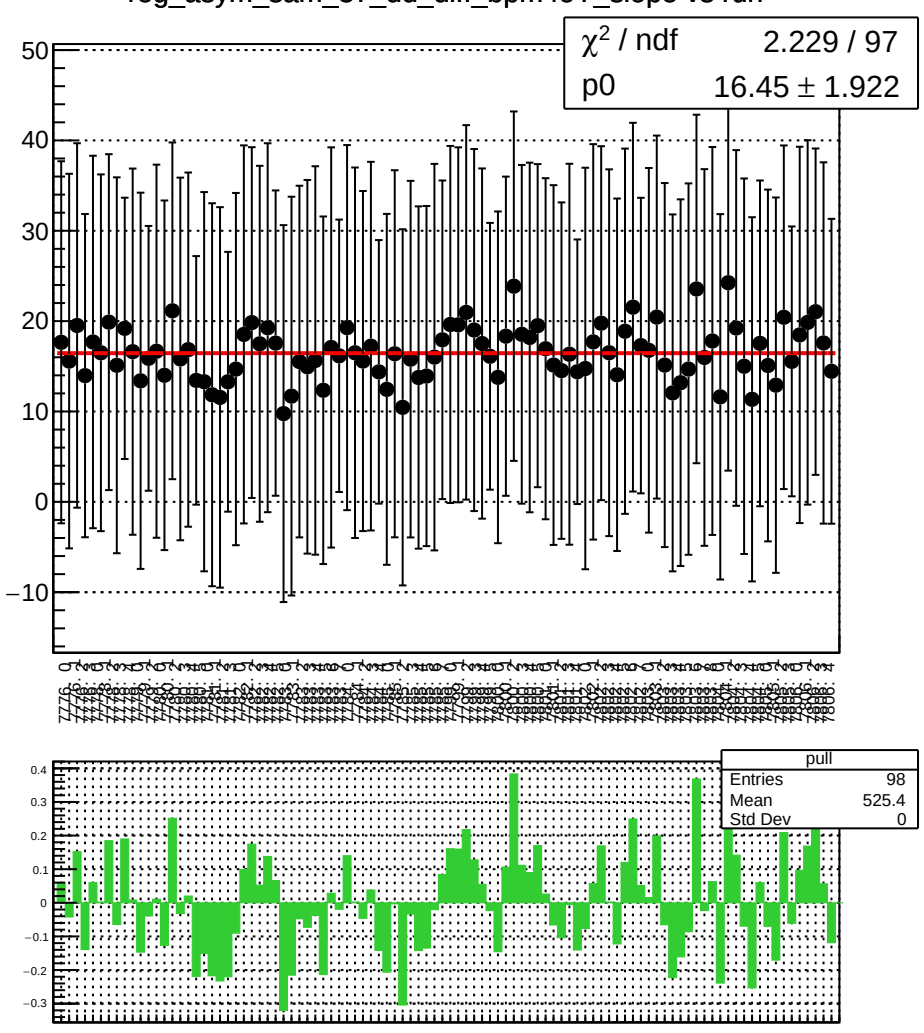

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2.923 / 97
p0 −1.411 ± 0.1138
pull
Entries 98
Mean 842.9
Std Dev 0
pull1D
Entries 98
Mean 0.002184
Std Dev 0.1727

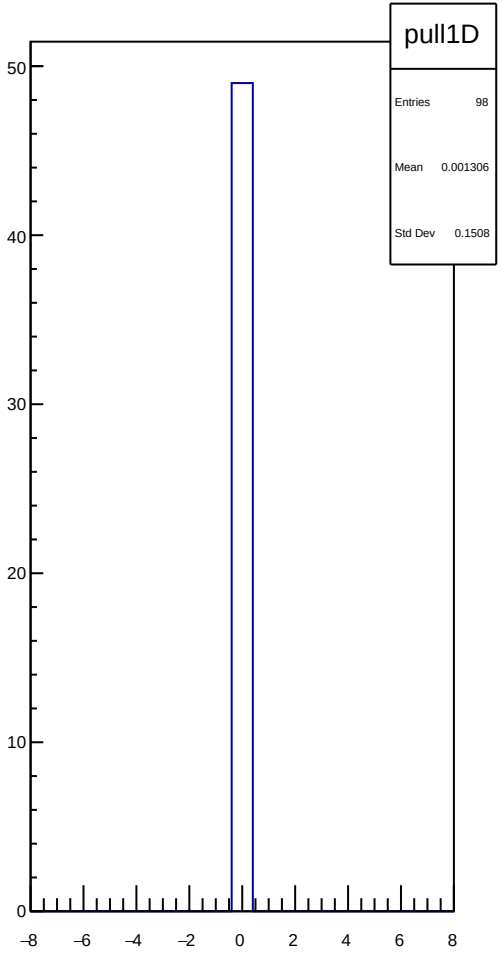

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 5.119 / 97
p0 −57.7 ± 1.653
pull
Entries 98
Mean 2947
Std Dev 0
pull1D
Entries 98
Mean 0.0005329
Std Dev 0.2285

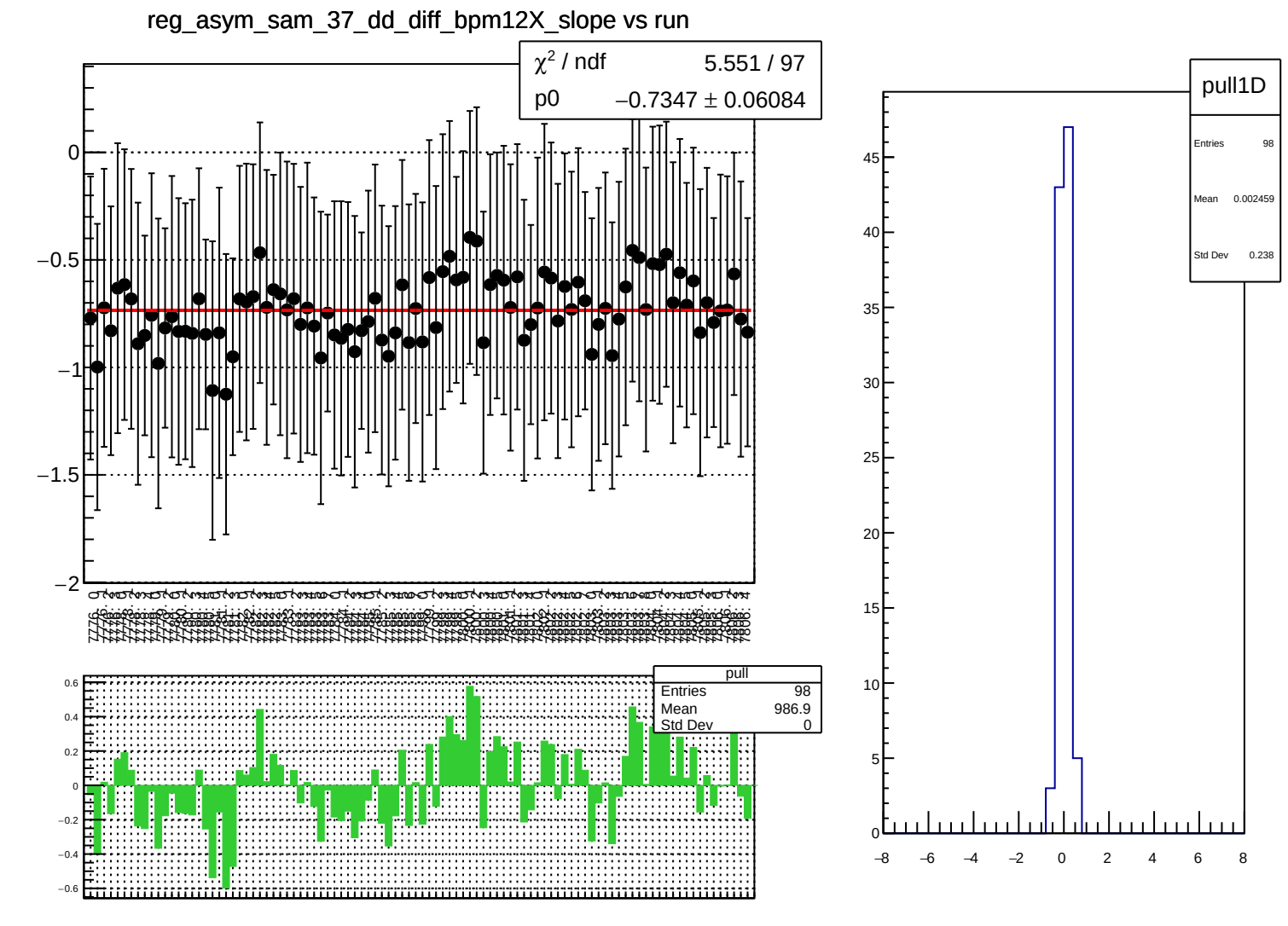

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.387 / 97
p0 −4.186 ± 1.699
pull
Entries 98
Mean 383.5
Std Dev 0
pull1D
Entries 98
Mean −0.001009
Std Dev 0.1561

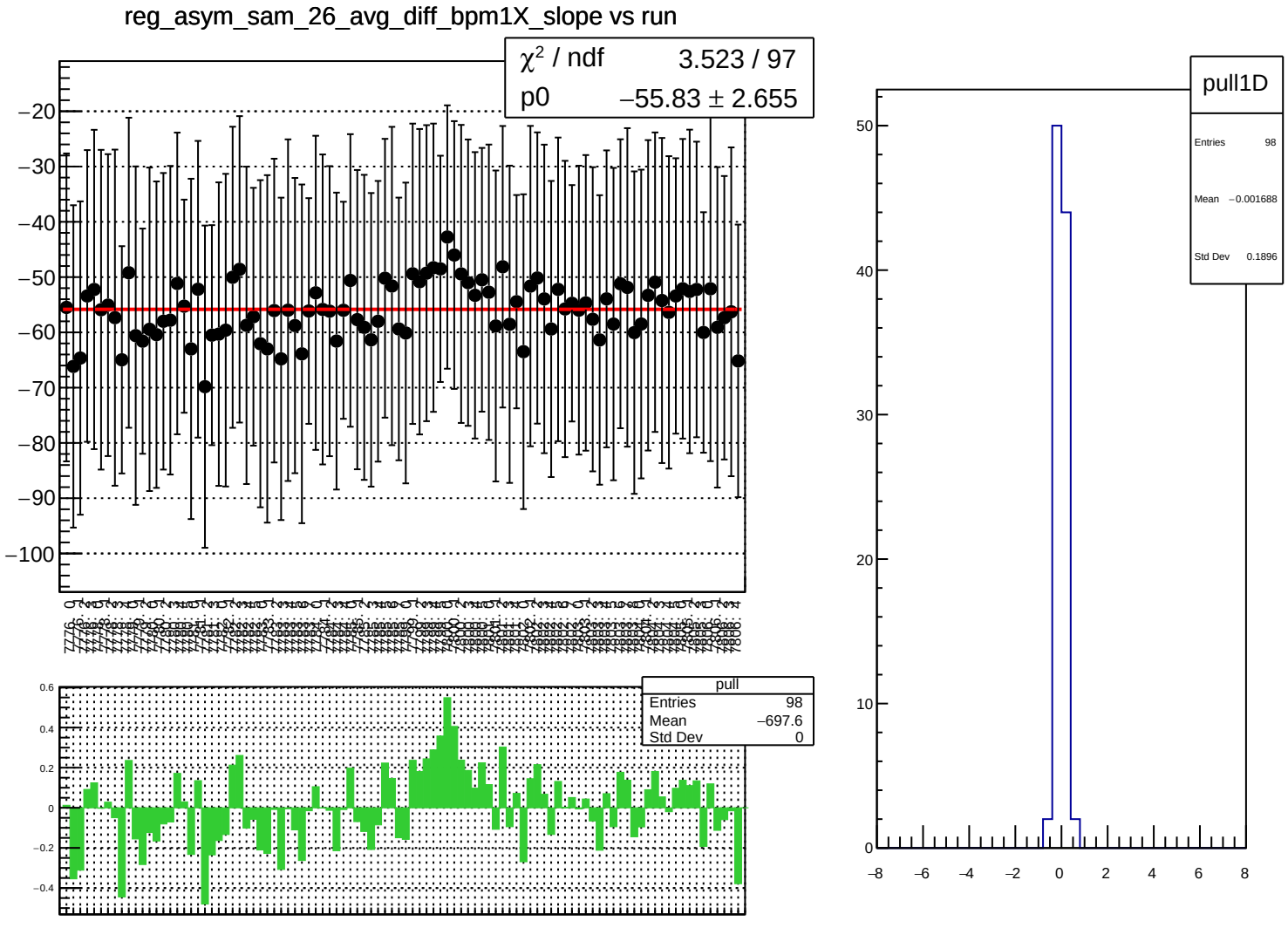

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.495 / 97
p0 3.547 ± 1.437
pull
Entries 98
Mean 1582
Std Dev 0

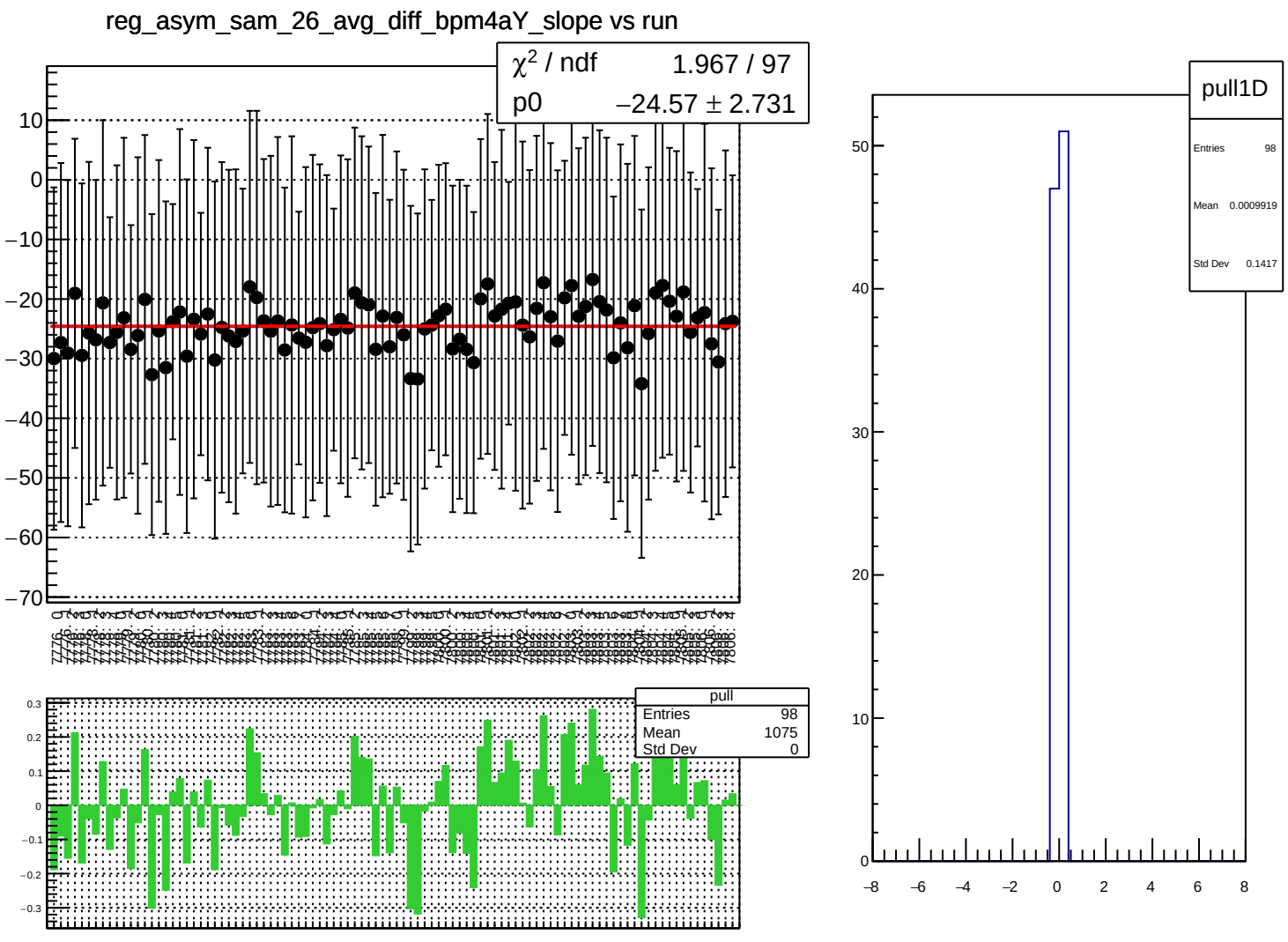

pull1D
Entries 98
Mean −0.0006414
Std Dev 0.2368

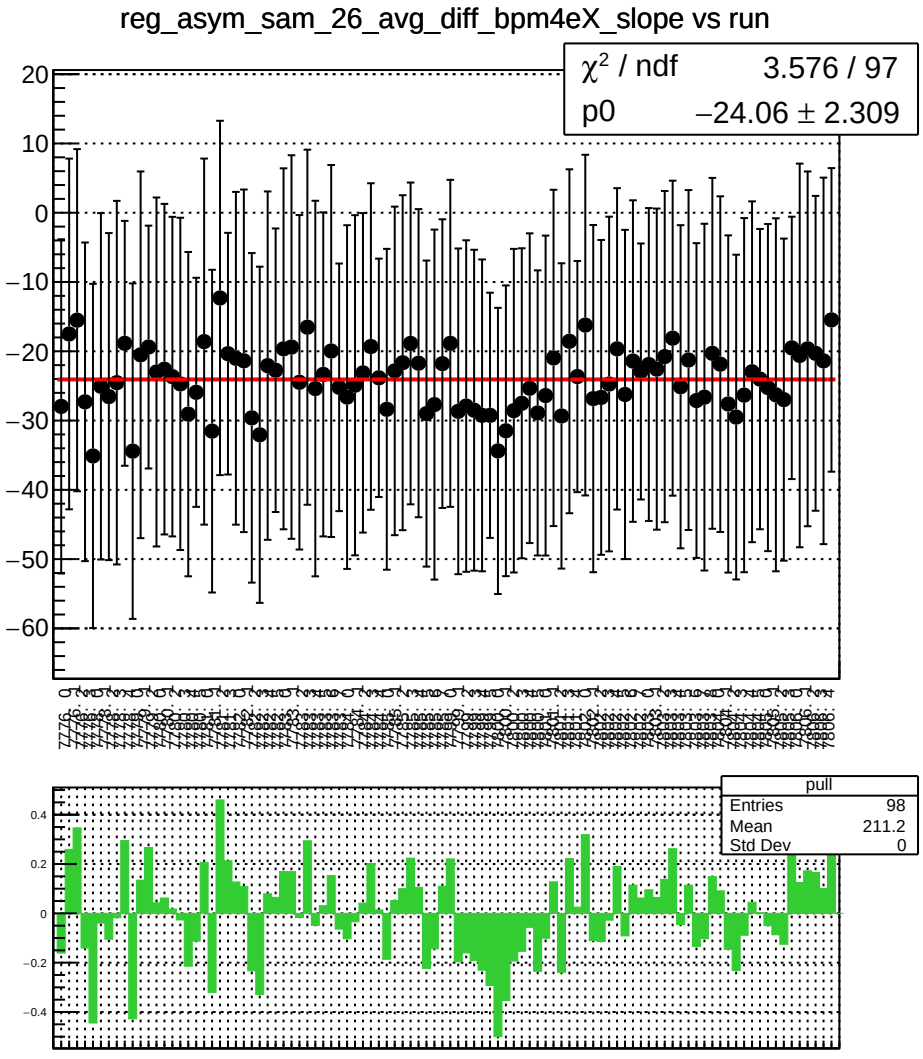

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 2.229 / 97
p0 16.45 ± 1.922
pull
Entries 98
Mean 525.4
Std Dev 0

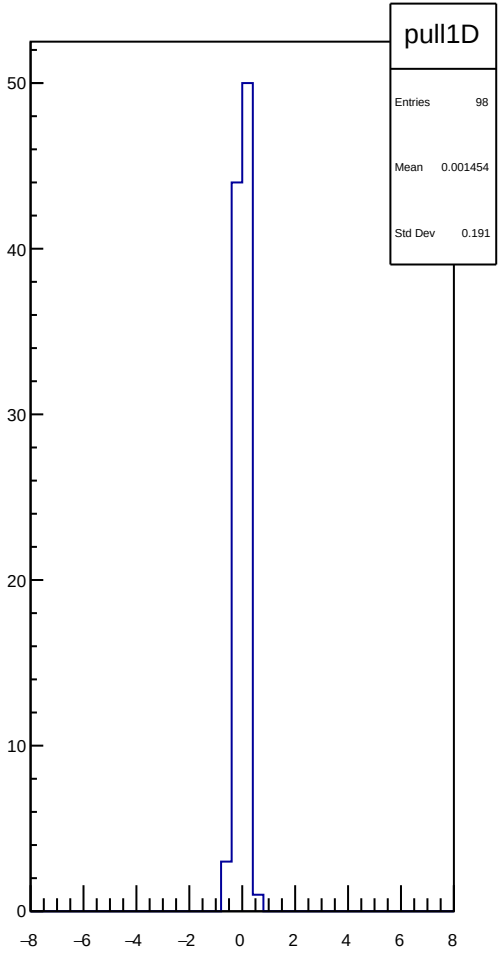

pull1D
Entries 98
Mean 0.001306
Std Dev 0.1508

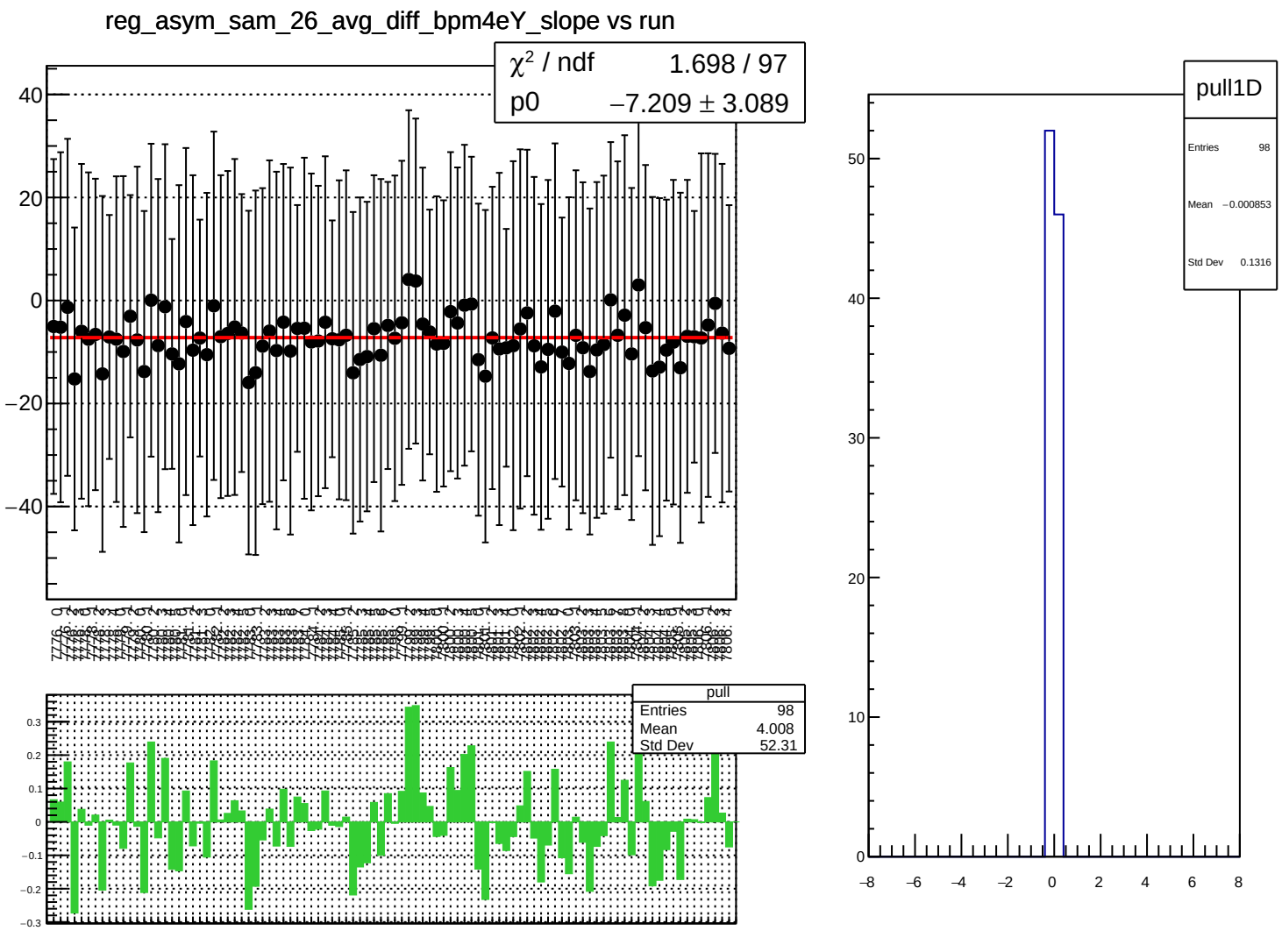

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.551 / 97
p0 −0.7347 ± 0.06084
pull
Entries 98
Mean 986.9
Std Dev 0
pull1D
Entries 98
Mean 0.002459
Std Dev 0.238

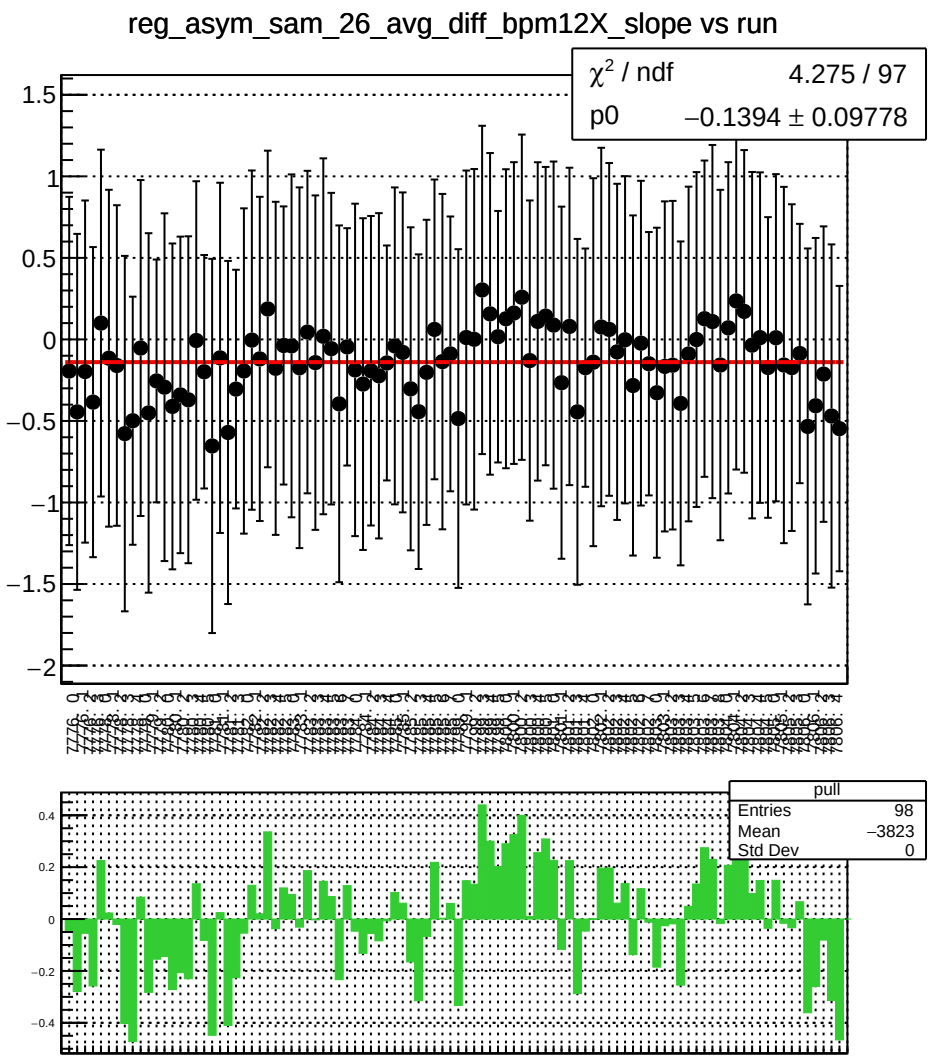

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 3.523 / 97
p0 −55.83 ± 2.655
pull
Entries 98
Mean −697.6
Std Dev 0
pull1D
Entries 98
Mean −0.001688
Std Dev 0.1896

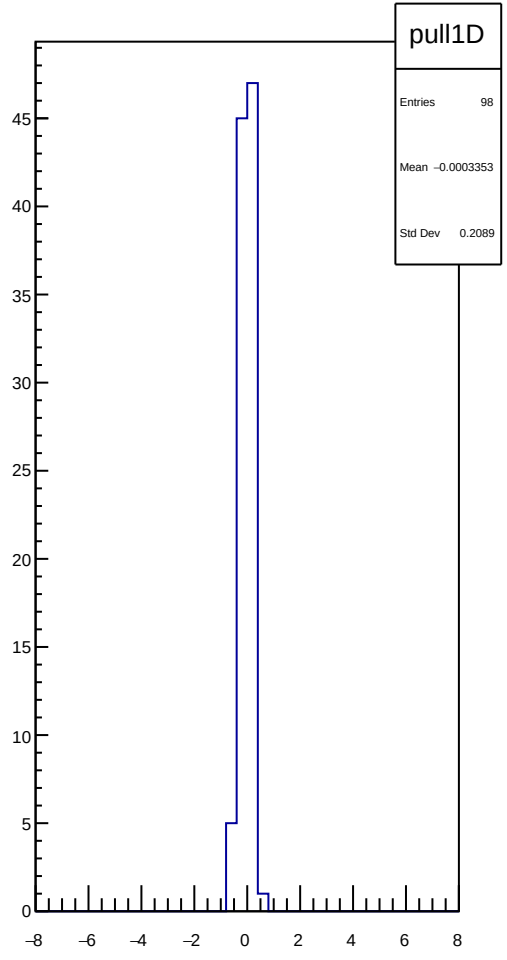

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.967 / 97
p0 −24.57 ± 2.731
pull
Entries 98
Mean 1075
Std Dev 0
pull1D
Entries 98
Mean 0.0009919
Std Dev 0.1417

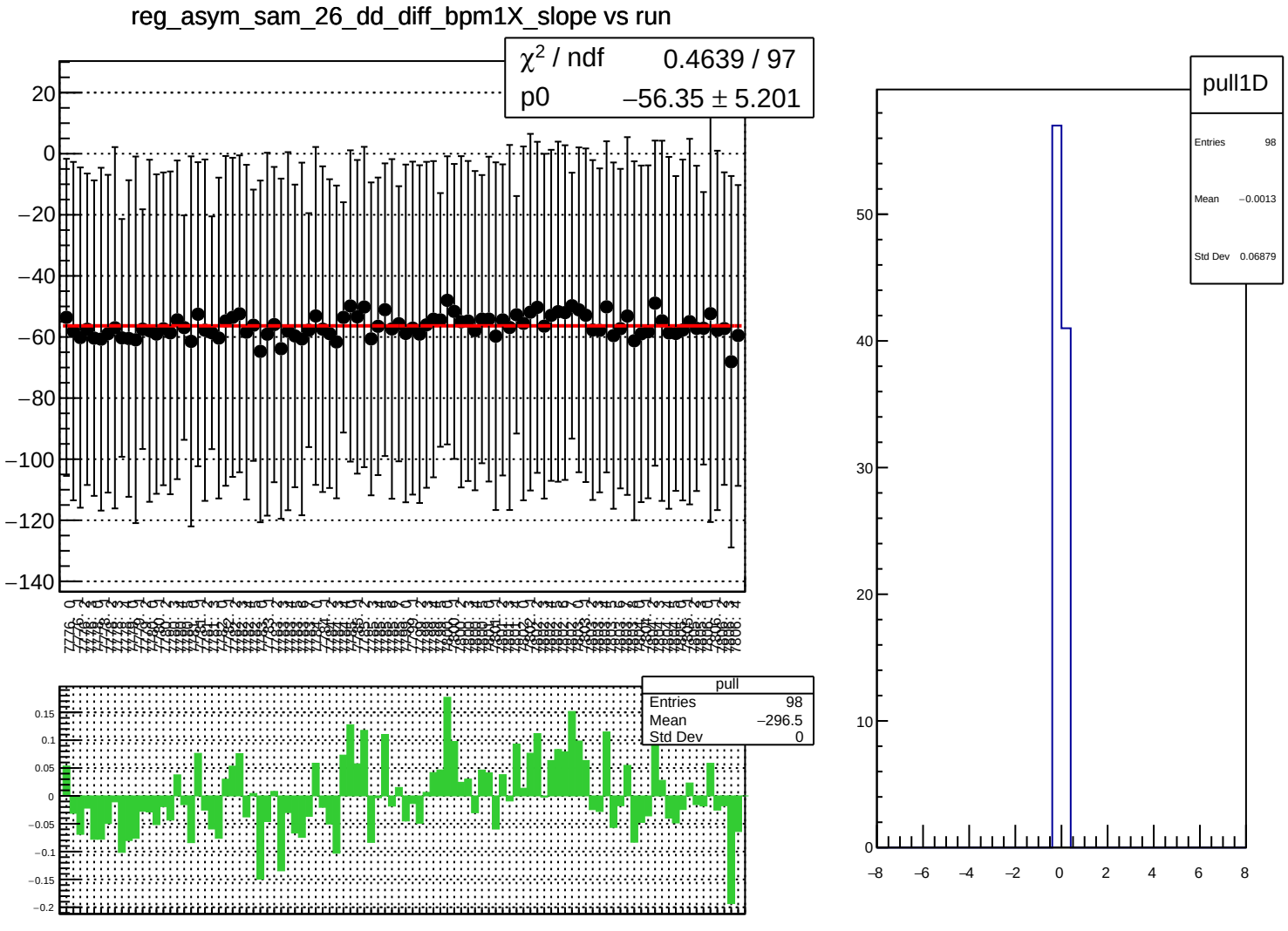

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.576 / 97
p0 −24.06 ± 2.309
pull
Entries 98
Mean 211.2
Std Dev 0

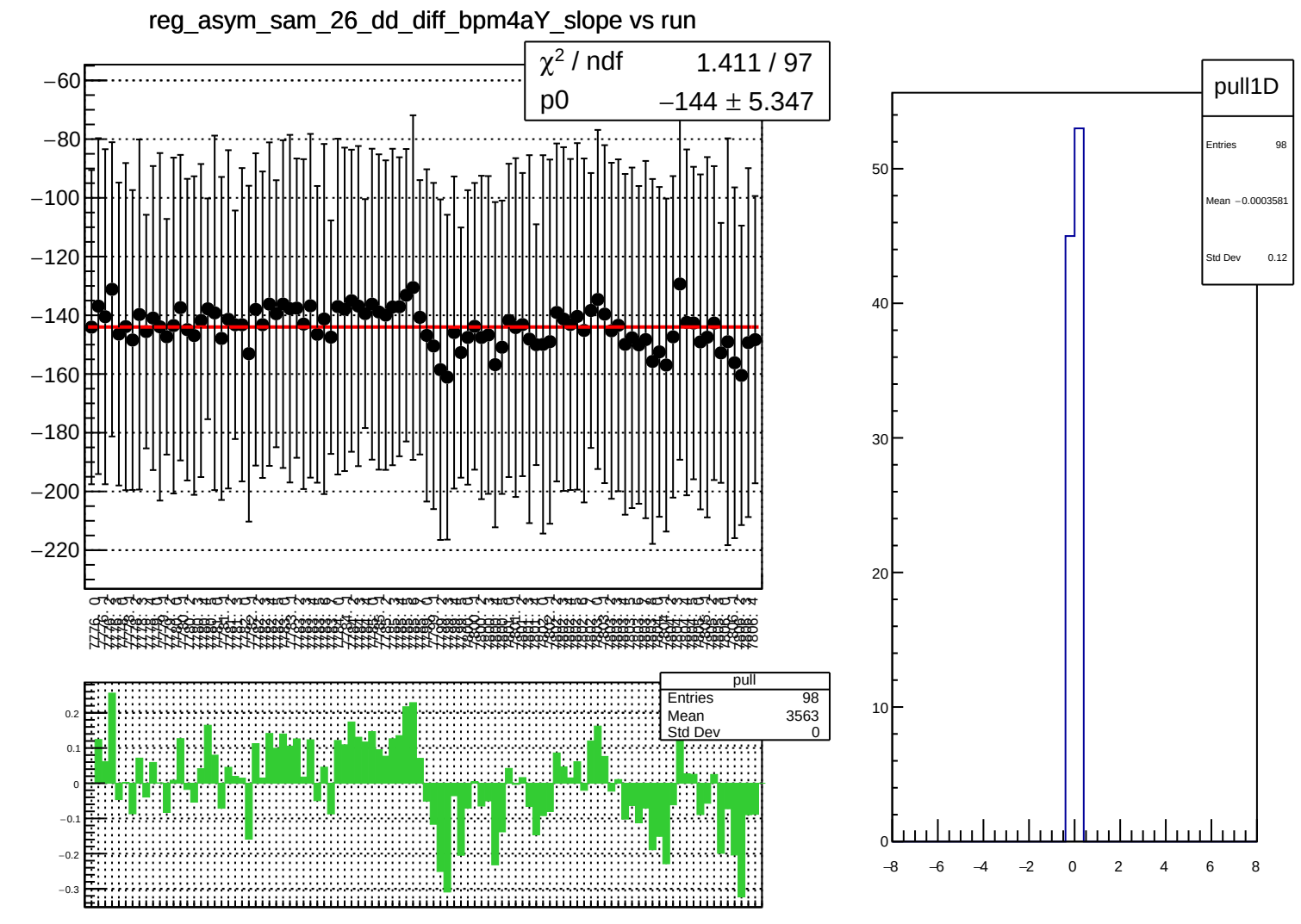

pull1D
Entries 98
Mean 0.001454
Std Dev 0.191

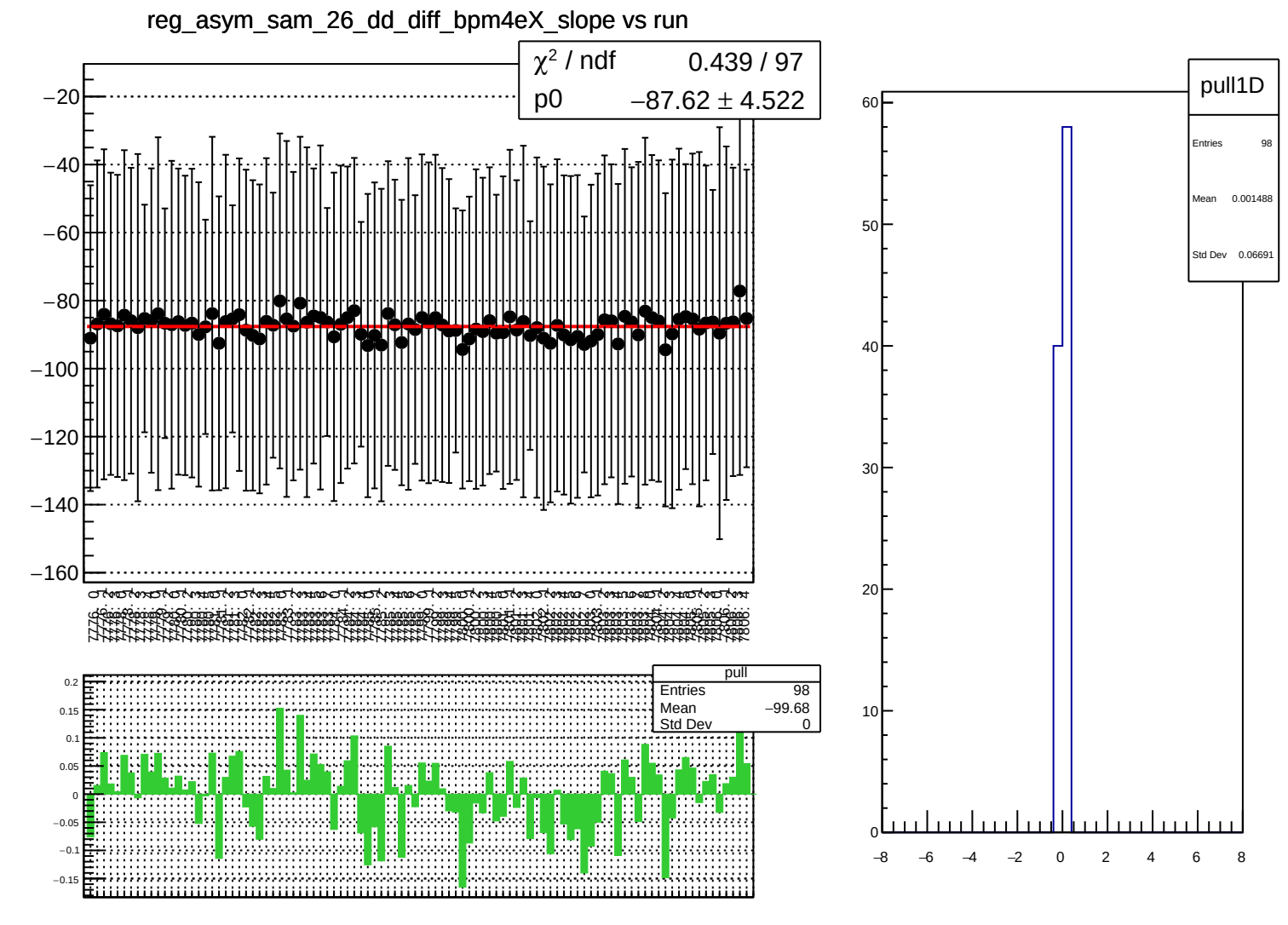

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.698 / 97
p0 −7.209 ± 3.089
40
20
0
−20
−40
pull
Entries 98
Mean 4.008
Std Dev 52.31
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 98
Mean −0.000853
Std Dev 0.1316
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

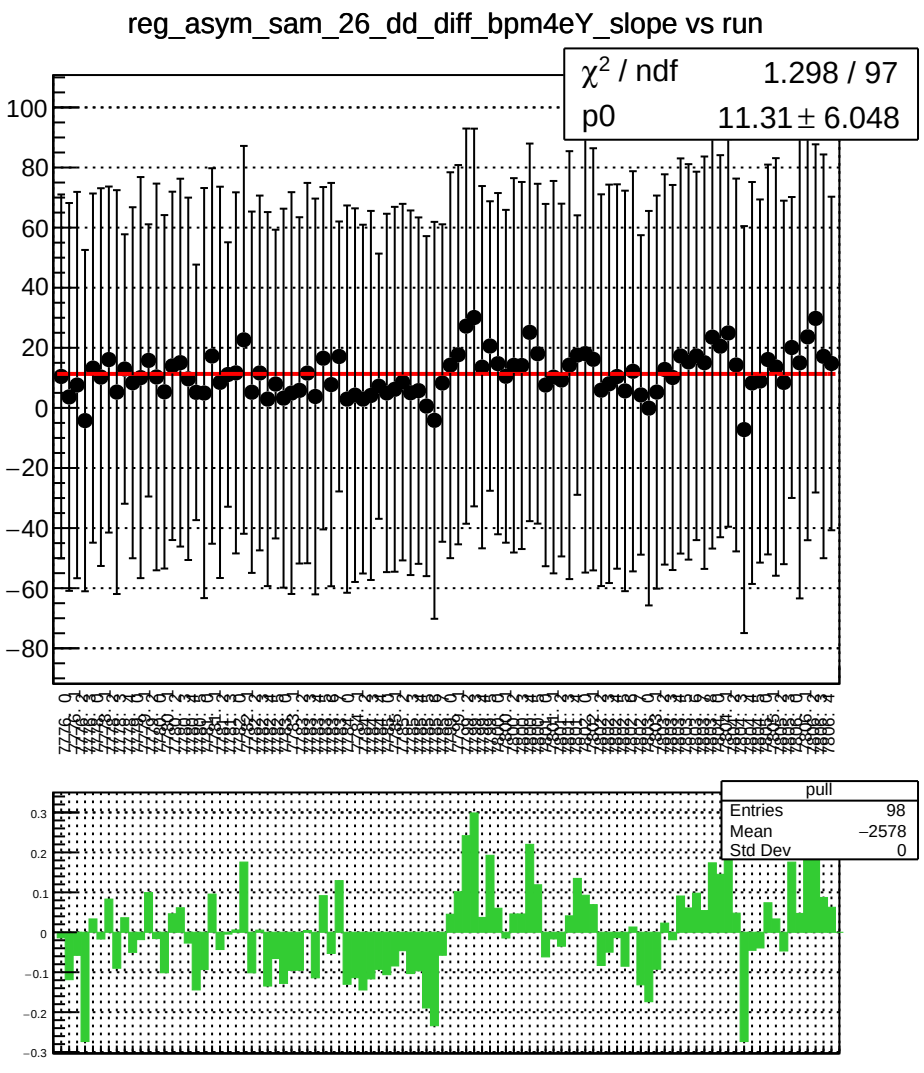

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 4.275 / 97
p0 −0.1394 ± 0.09778
pull
Entries 98
Mean −3823
Std Dev 0

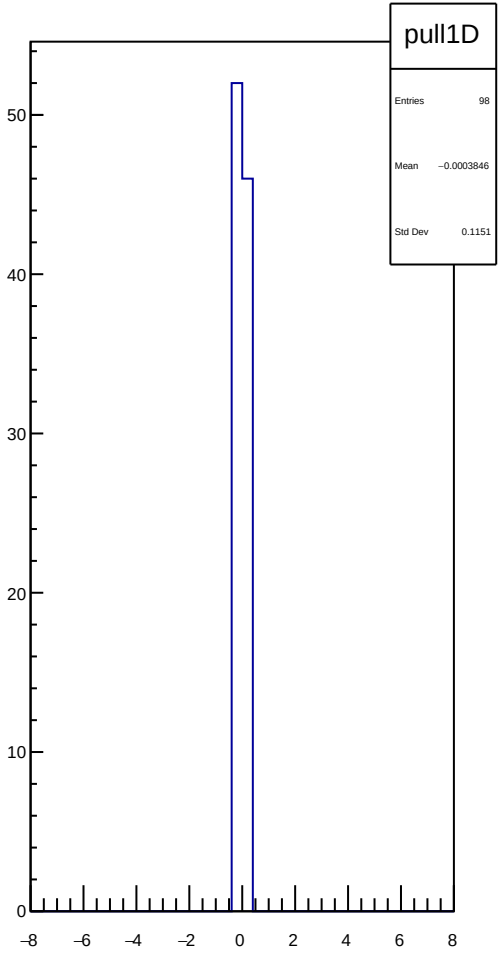

pull1D
Entries 98
Mean −0.0003353
Std Dev 0.2089

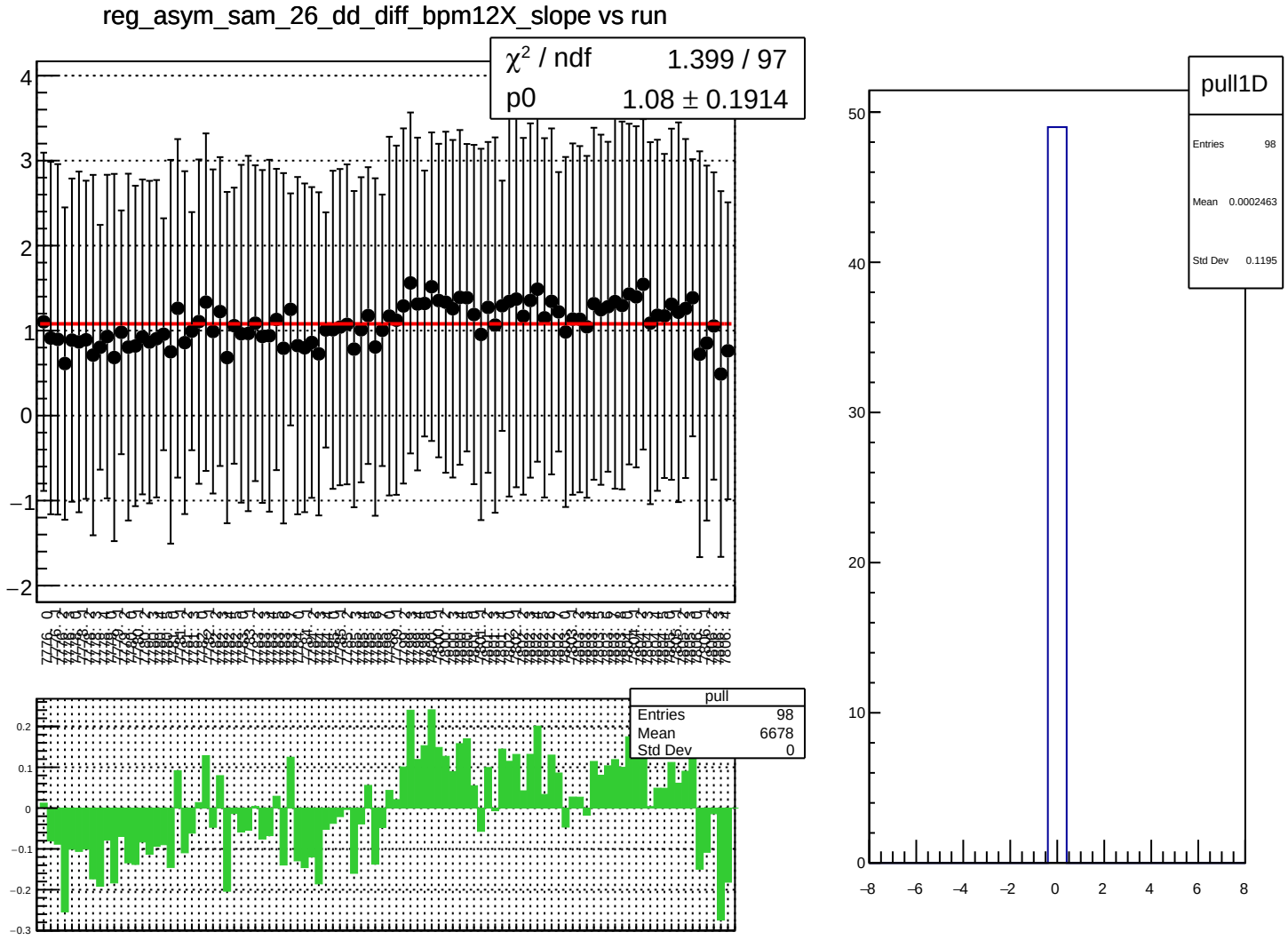

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.4639 / 97
p0 −56.35 ± 5.201
pull
Entries 98
Mean −296.5
Std Dev 0
pull1D
Entries 98
Mean −0.0013
Std Dev 0.06879

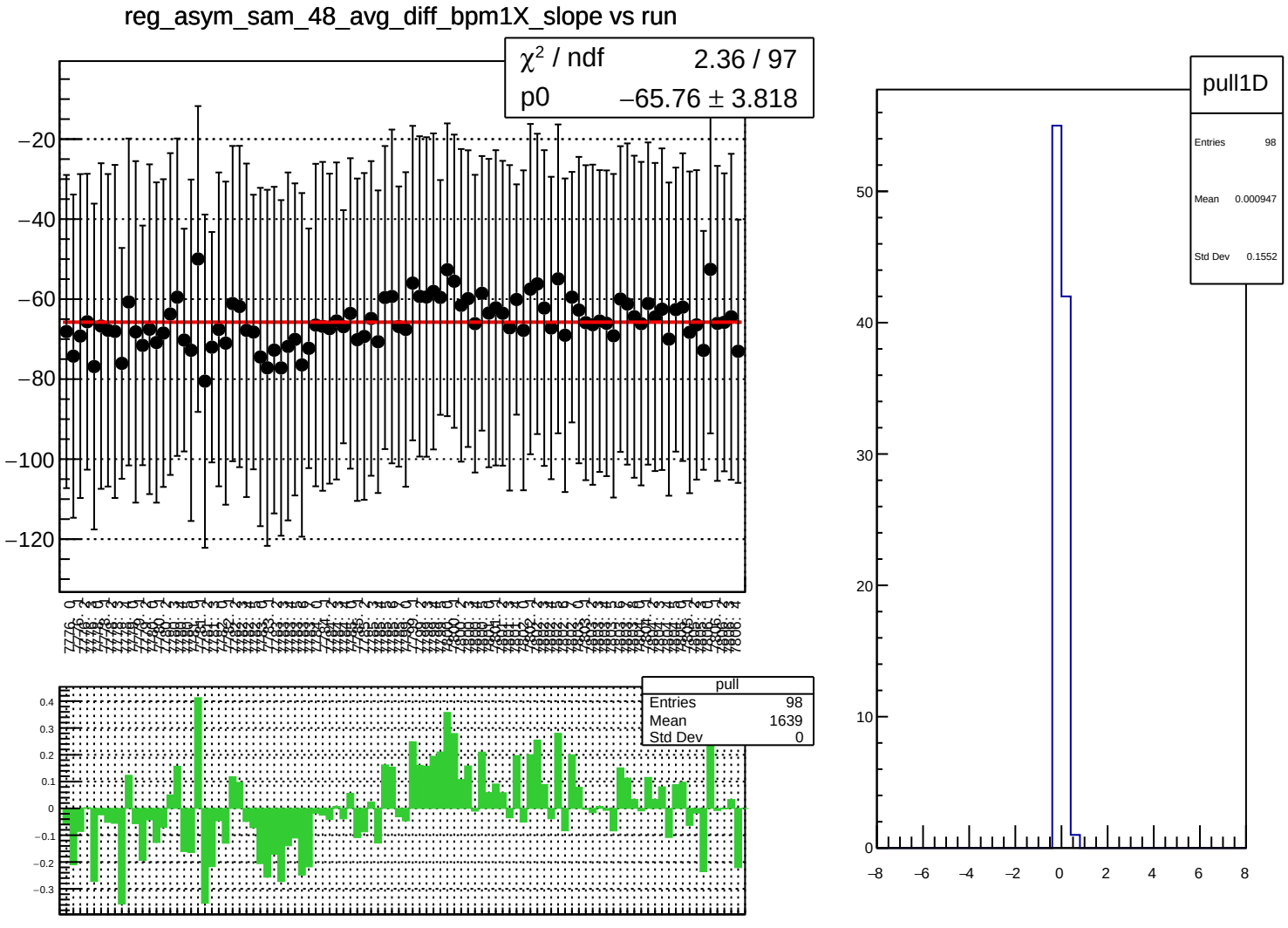

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.411 / 97
p0 −144 ± 5.347
pull
Entries 98
Mean 3563
Std Dev 0
pull1D
Entries 98
Mean −0.0003581
Std Dev 0.12

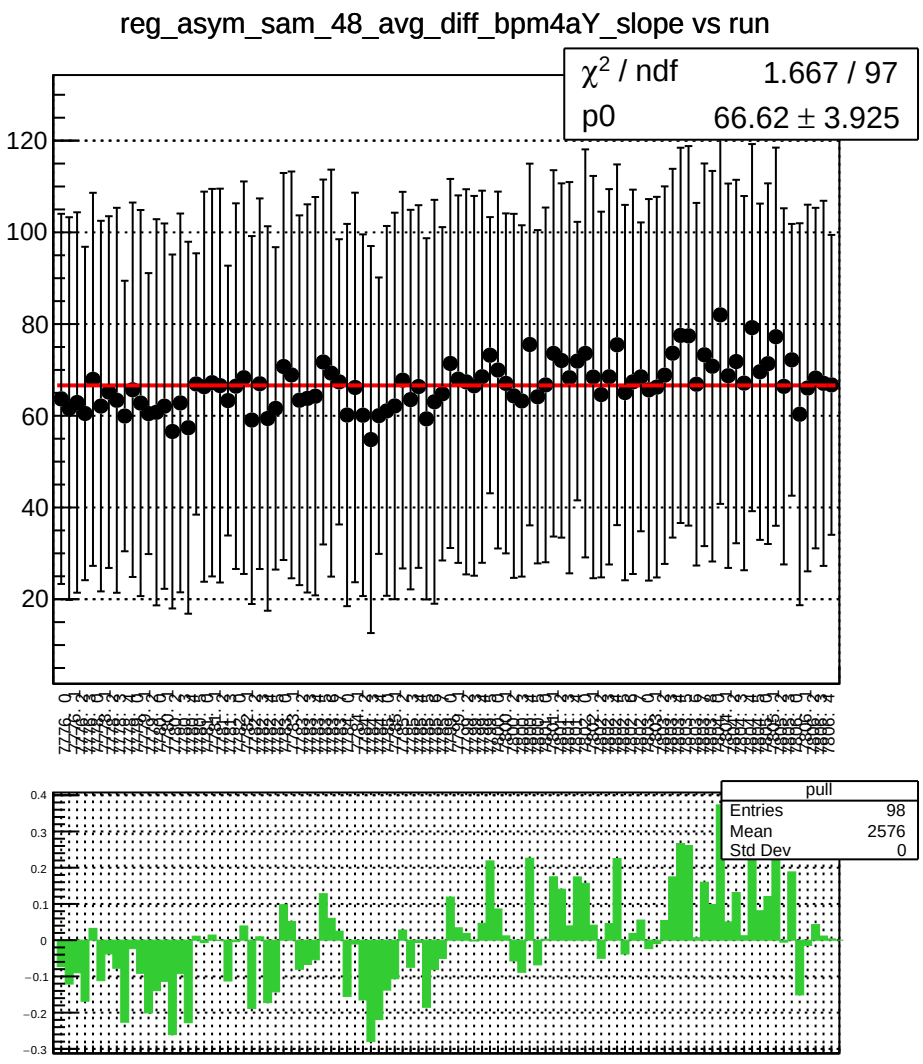

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.439 / 97
p0 −87.62 ± 4.522
−20
−40
−60
−80
−100
−120
−140
−160
pull
Entries 98
Mean −99.68
Std Dev 0
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 98
Mean 0.001488
Std Dev 0.06691
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

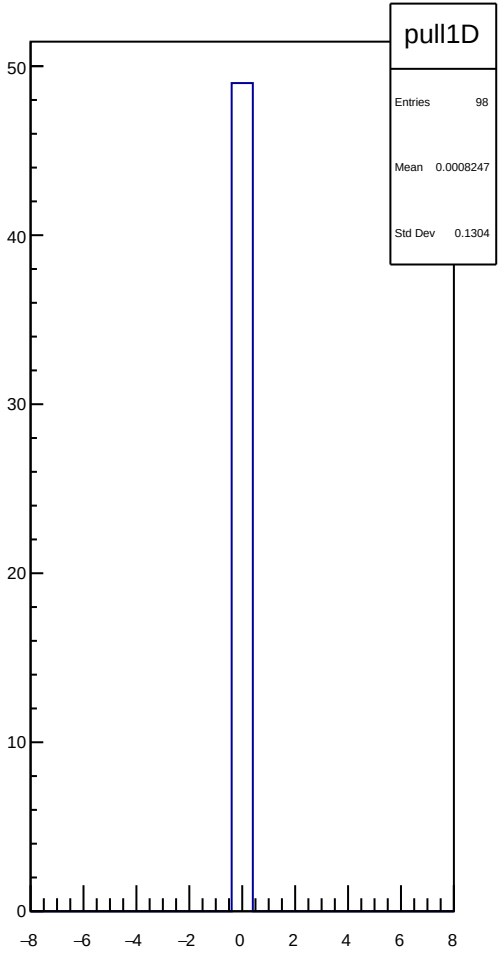

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.298 / 97
p0 11.31 ± 6.048
pull
Entries 98
Mean −2578
Std Dev 0

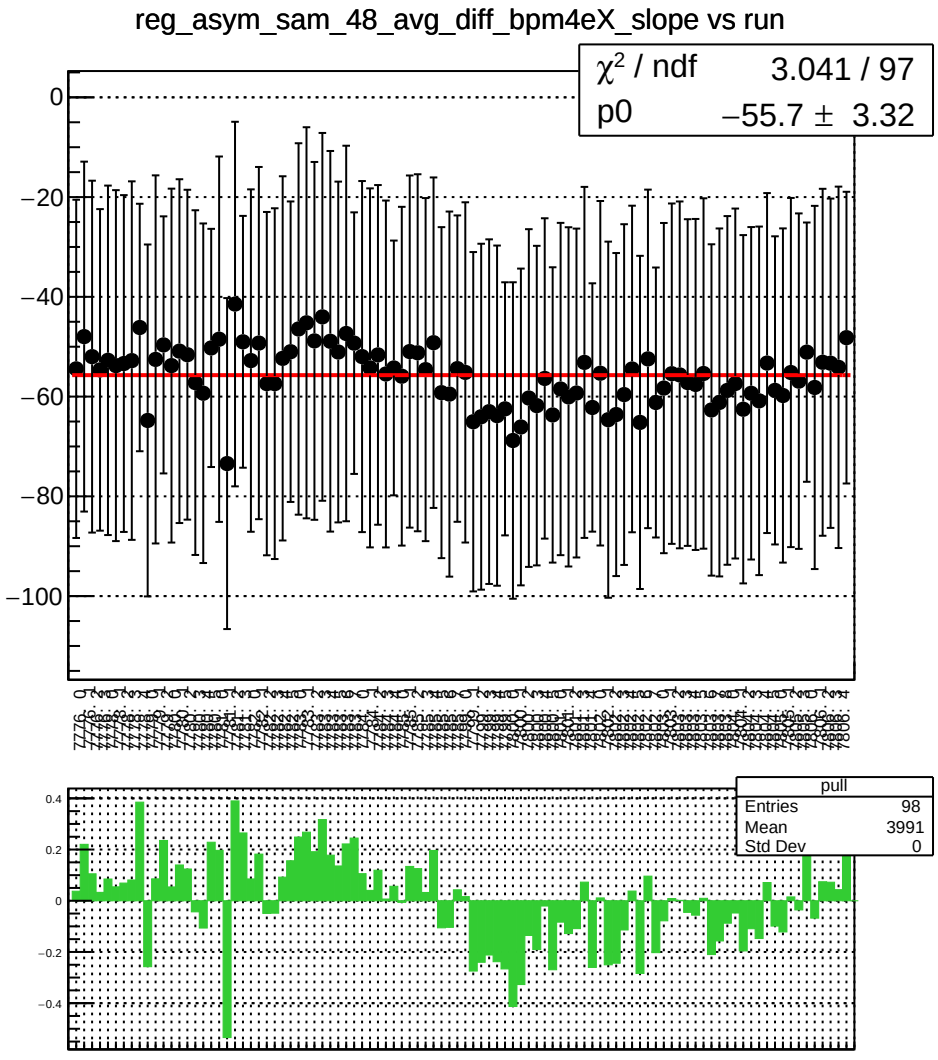

pull1D
Entries 98
Mean −0.0003846
Std Dev 0.1151

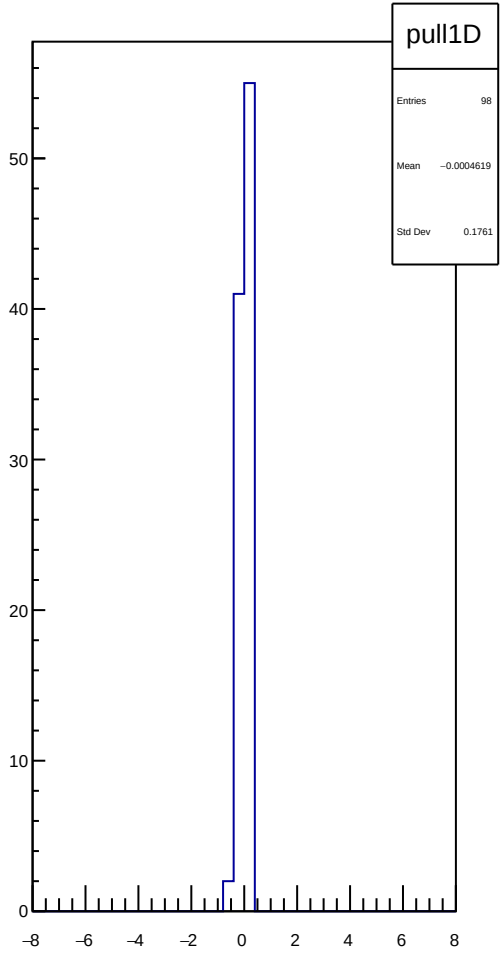

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.399 / 97
p0 1.08 ± 0.1914
pull
Entries 98
Mean 6678
Std Dev 0
pull1D
Entries 98
Mean 0.0002463
Std Dev 0.1195

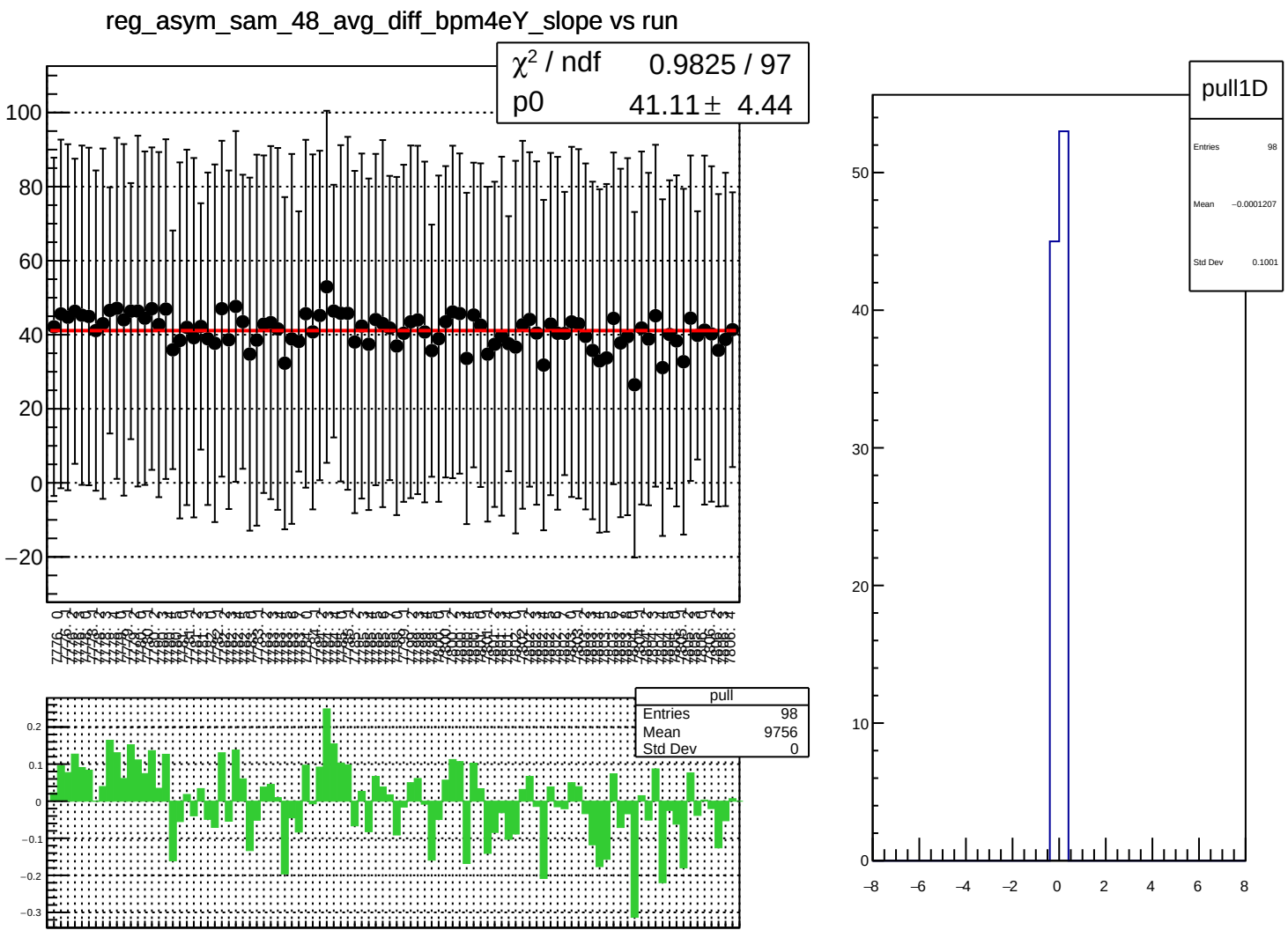

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 2.36 / 97
p0 −65.76 ± 3.818
−20
−40
−60
−80
−100
−120
pull
Entries 98
Mean 1639
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 98
Mean 0.000947
Std Dev 0.1552
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

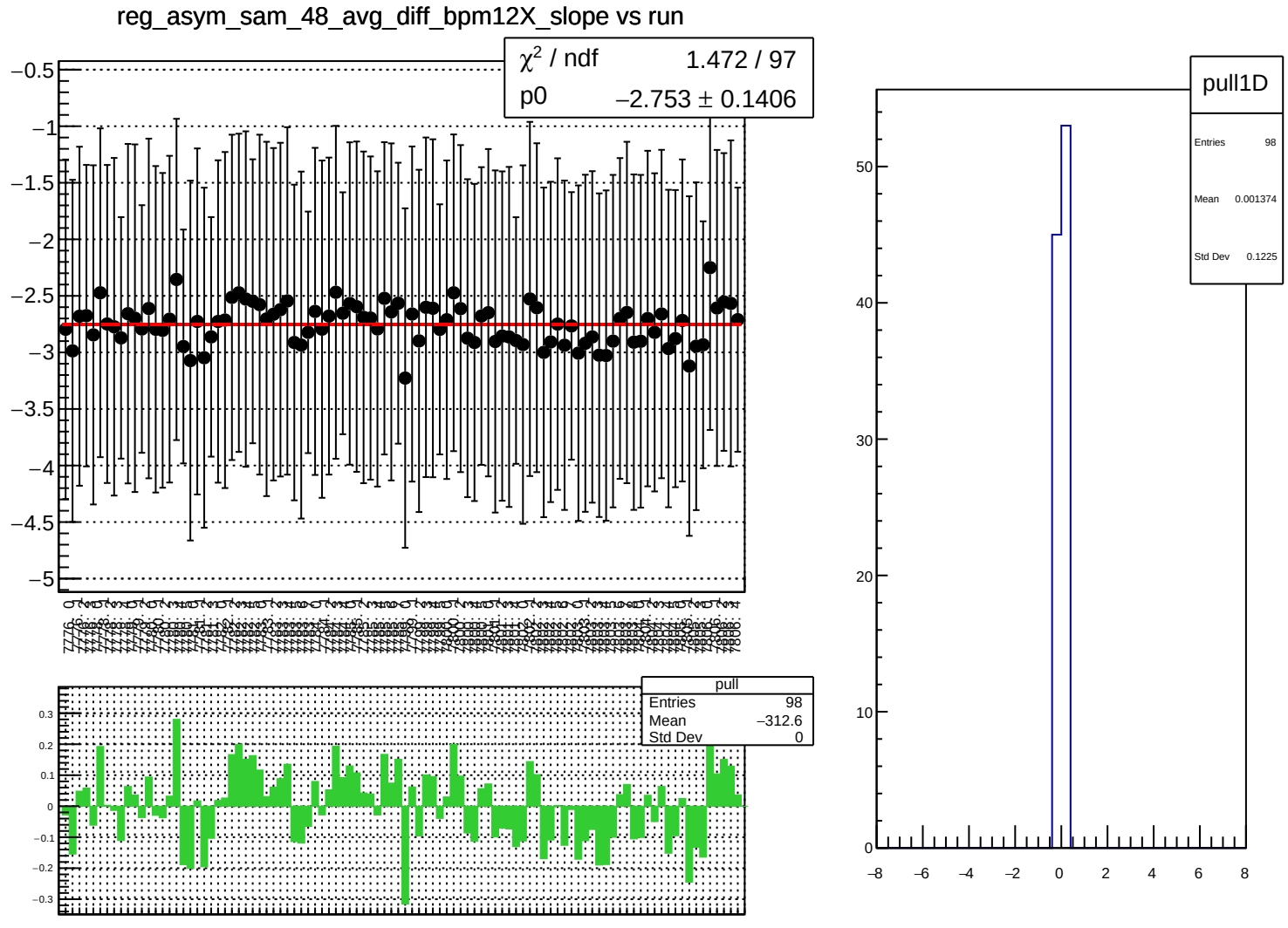

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.667 / 97
p0 66.62 ± 3.925
120
100
80
60
40
20
pull
Entries 98
Mean 2576
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

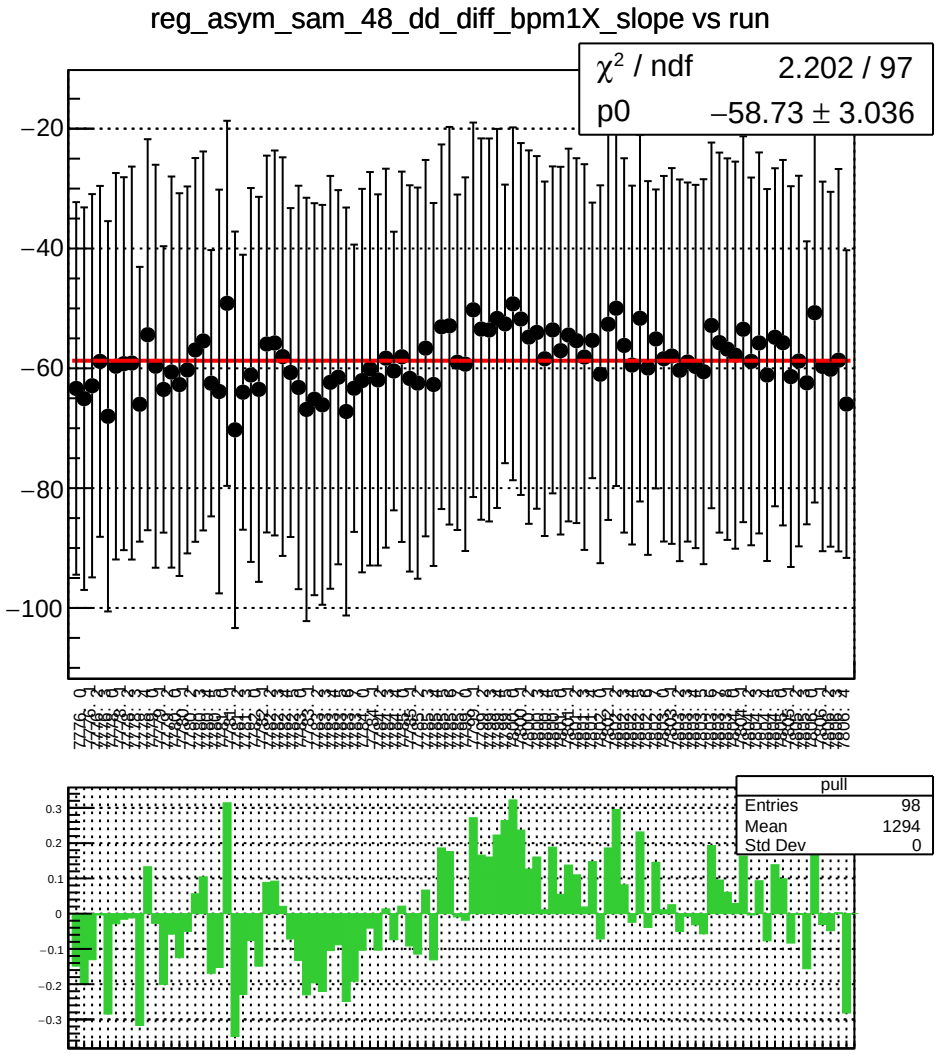

pull1D
Entries 98
Mean 0.0008247
Std Dev 0.1304
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

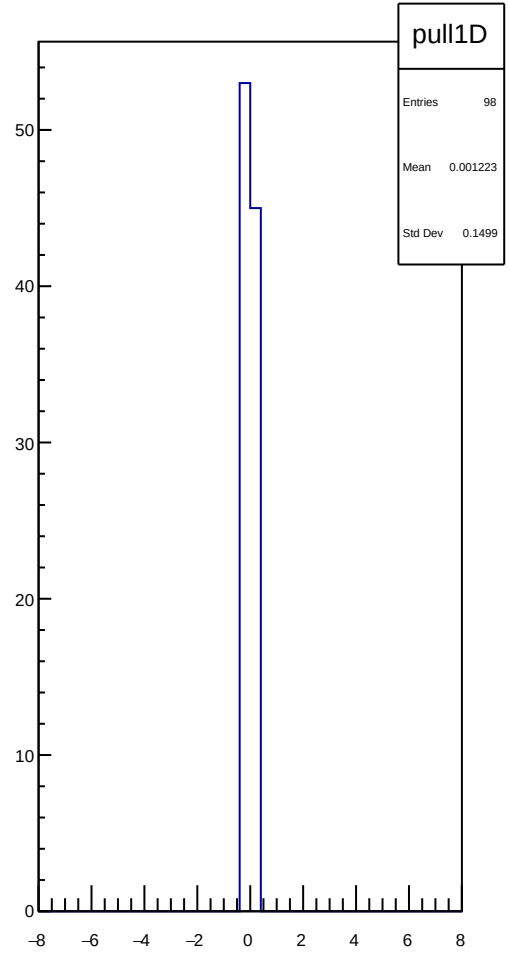

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.041 / 97
p0 −55.7 ± 3.32
0
−20
−40
−60
−80
−100
pull
Entries 98
Mean 3991
Std Dev 0
0.4
0.2
0
−0.2
−0.4

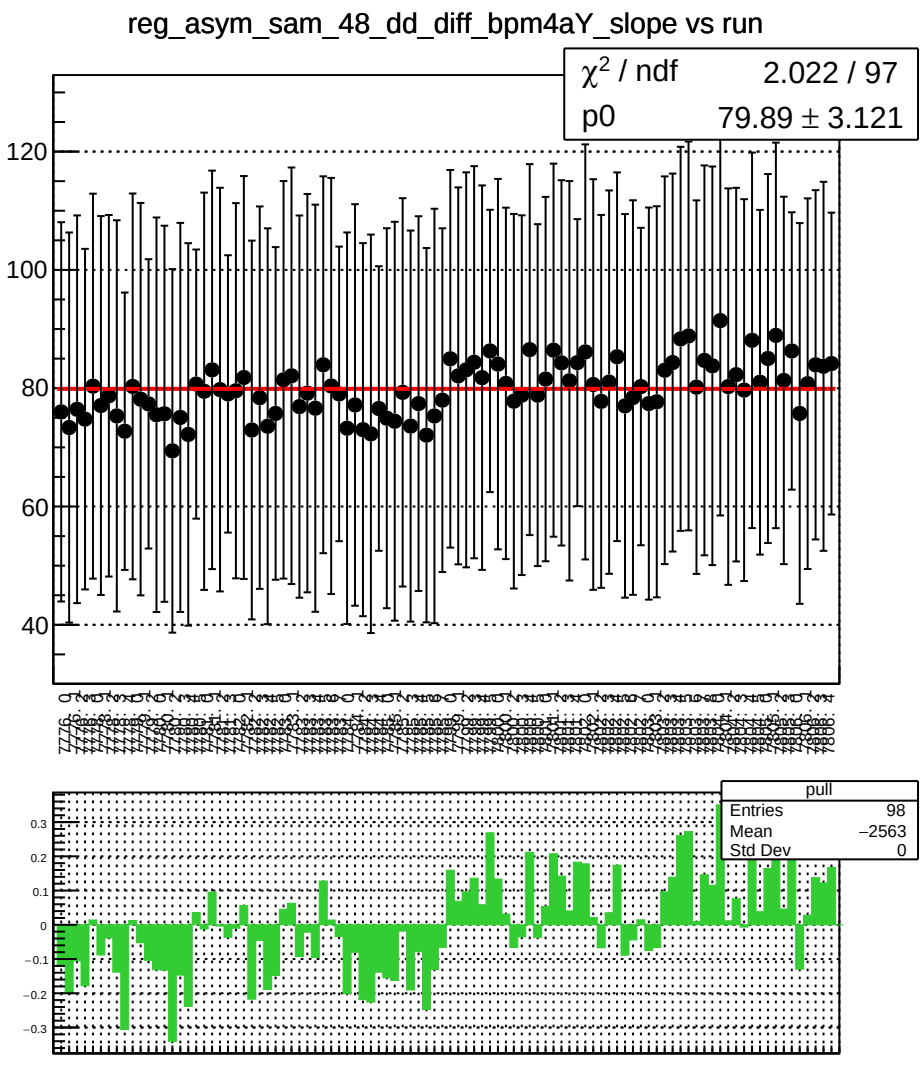

pull1D
Entries 98
Mean −0.0004619
Std Dev 0.1761
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

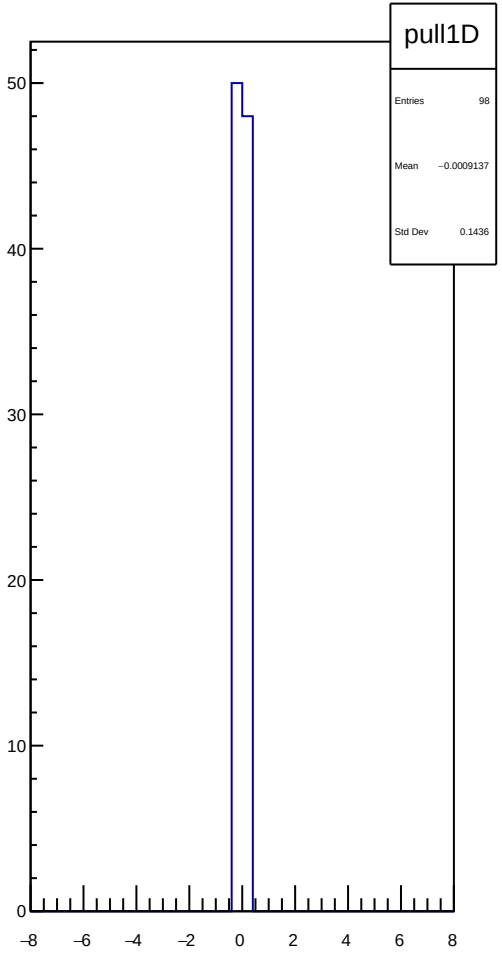

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.9825 / 97
p0 41.11 ± 4.44
pull
Entries 98
Mean 9756
Std Dev 0
pull1D
Entries 98
Mean −0.0001207
Std Dev 0.1001

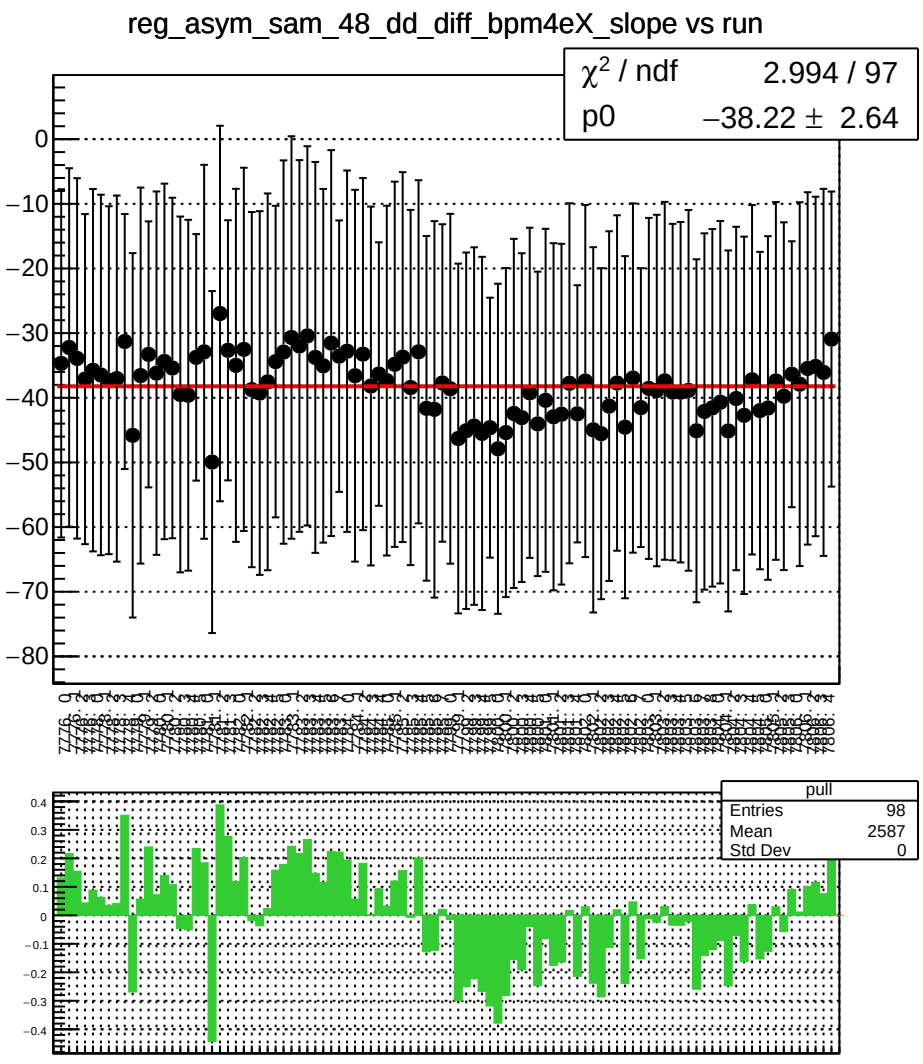

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1.472 / 97
p0 −2.753 ± 0.1406
pull
Entries 98
Mean −312.6
Std Dev 0
pull1D
Entries 98
Mean 0.001374
Std Dev 0.1225

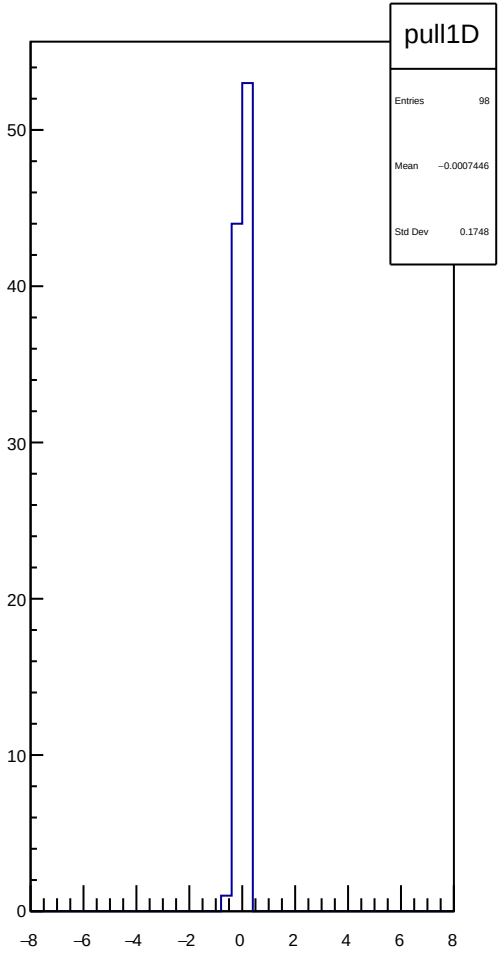

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.202 / 97
p0 −58.73 ± 3.036
−20
−40
−60
−80
−100
pull
Entries 98
Mean 1294
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

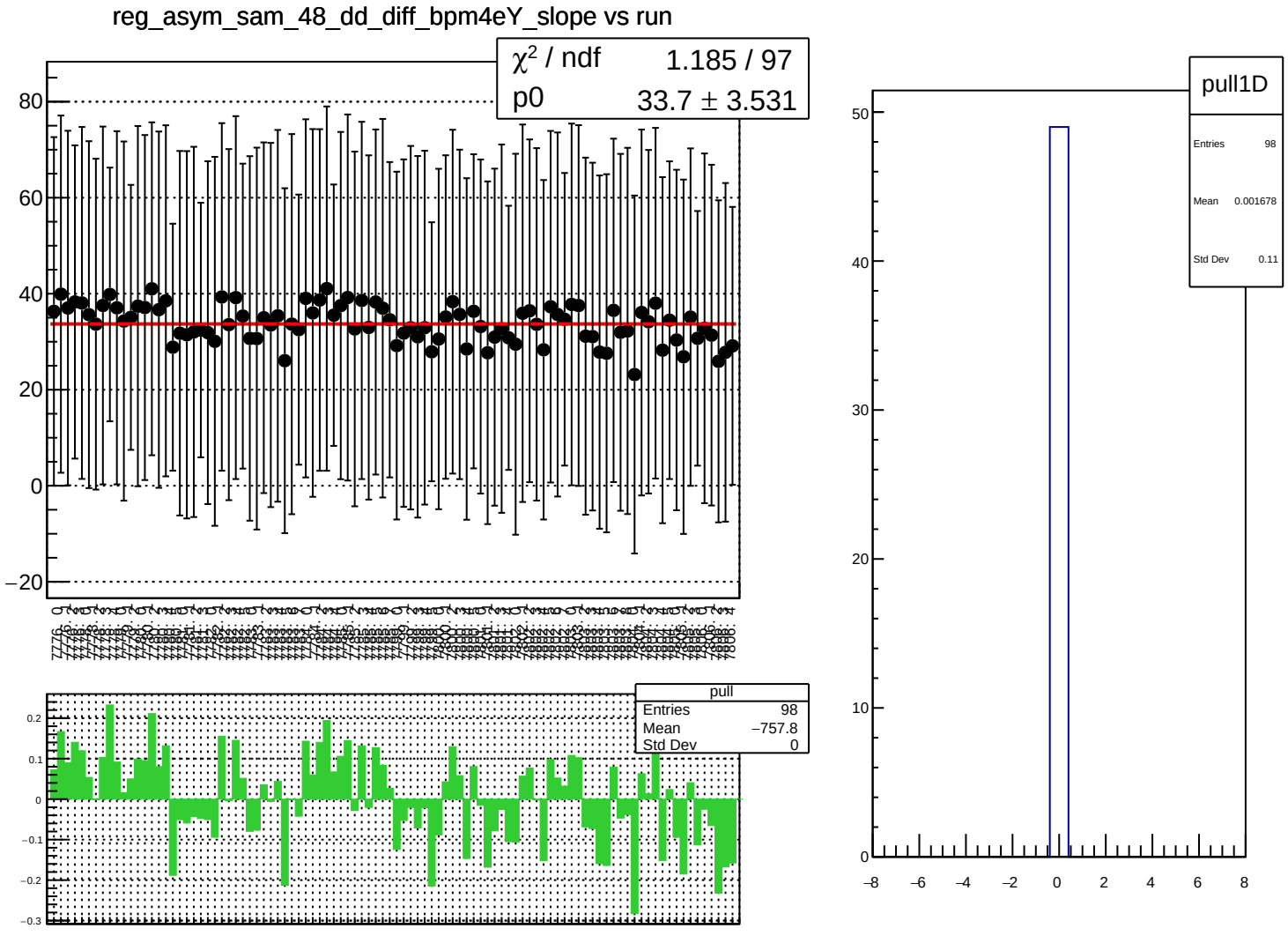

pull1D
Entries 98
Mean 0.001223
Std Dev 0.1499
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

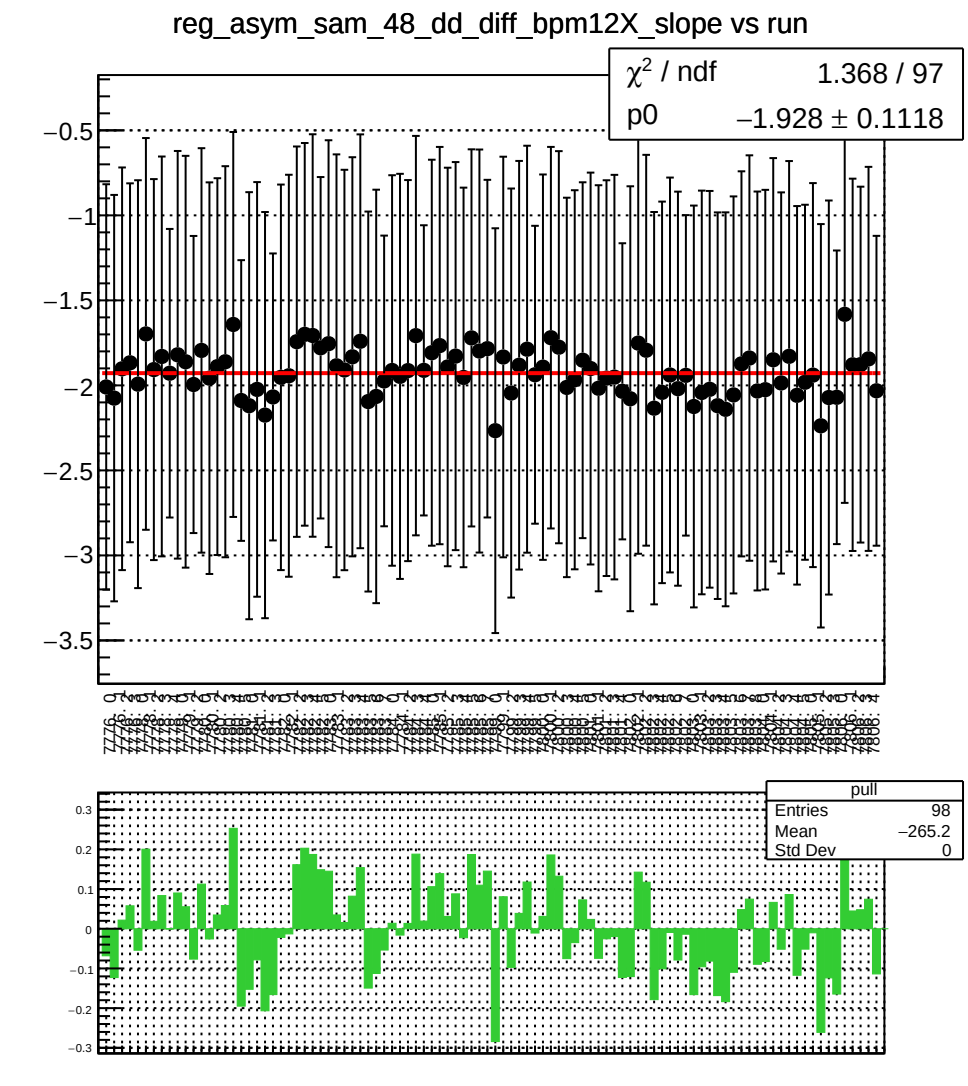

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.022 / 97
p0 79.89 ± 3.121
120
100
80
60
40
pull
Entries 98
Mean −2563
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

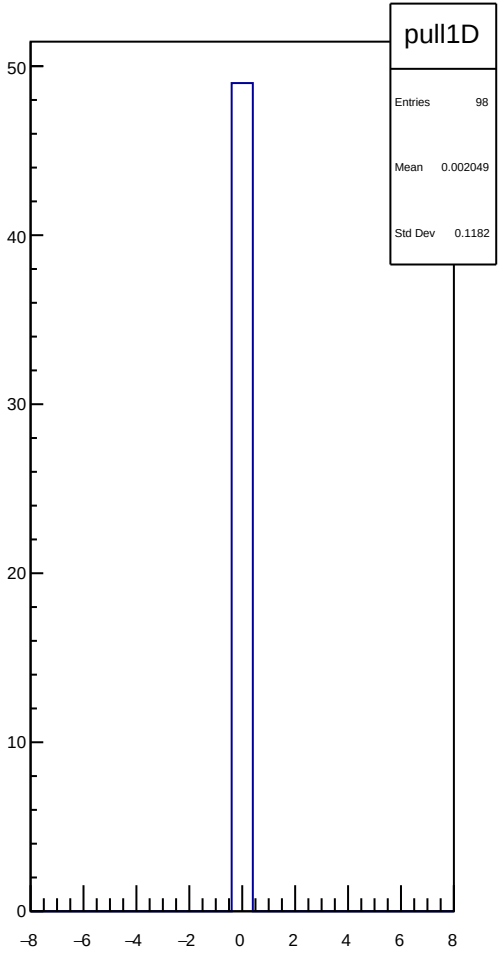

pull1D
Entries 98
Mean −0.0009137
Std Dev 0.1436
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

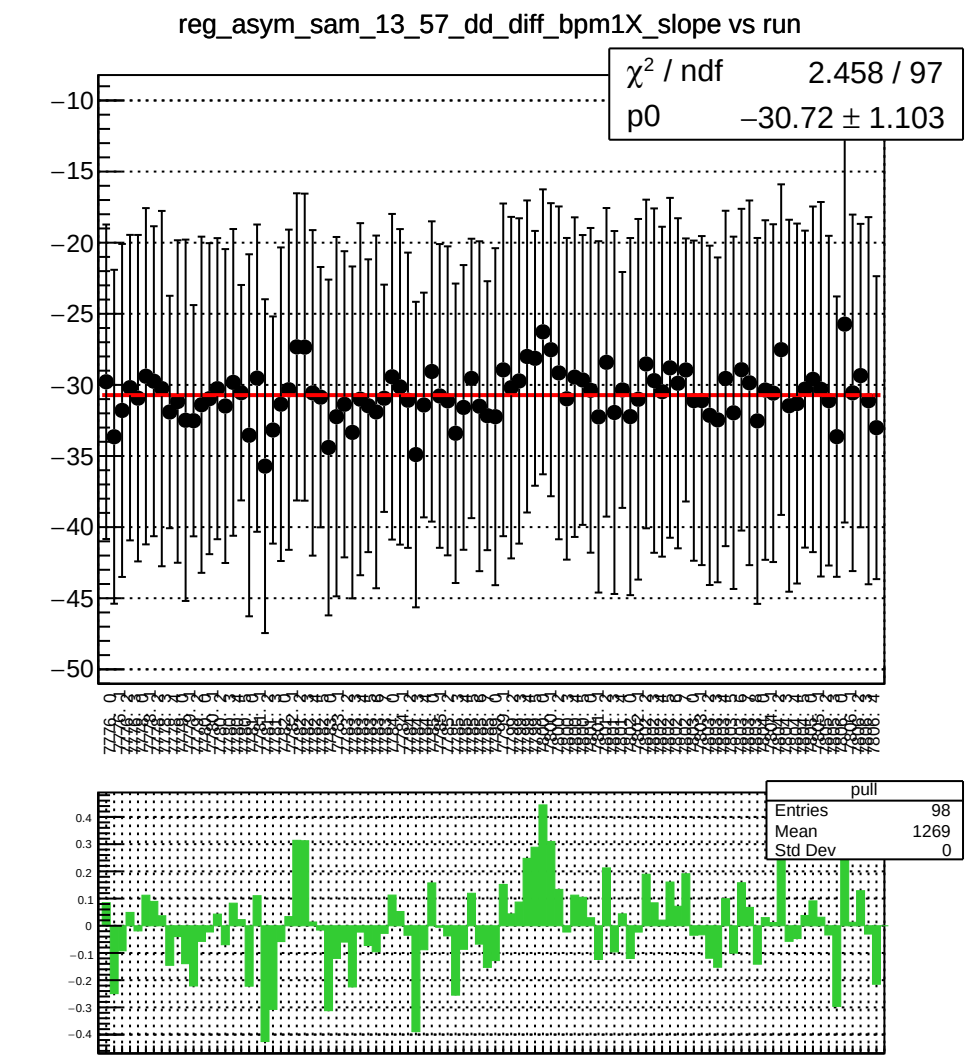

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.994 / 97
p0 −38.22 ± 2.64
pull
Entries 98
Mean 2587
Std Dev 0

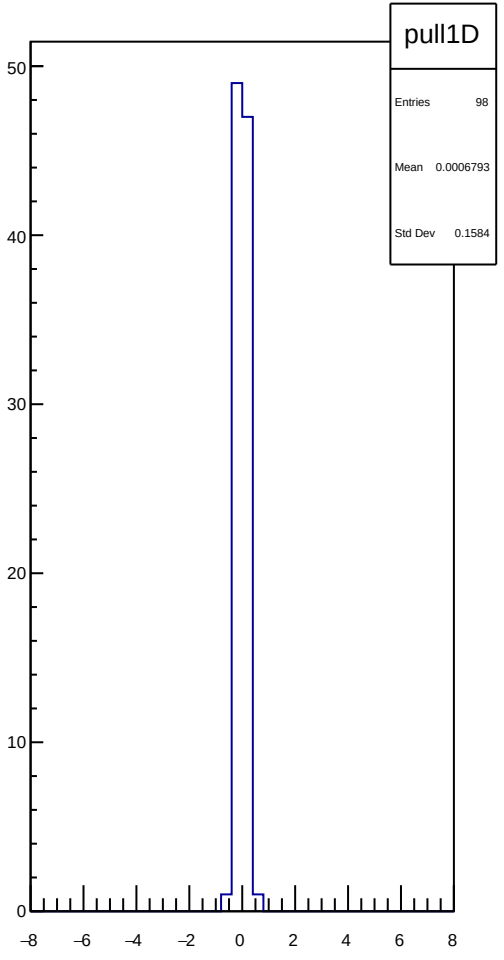

pull1D
Entries 98
Mean −0.0007446
Std Dev 0.1748

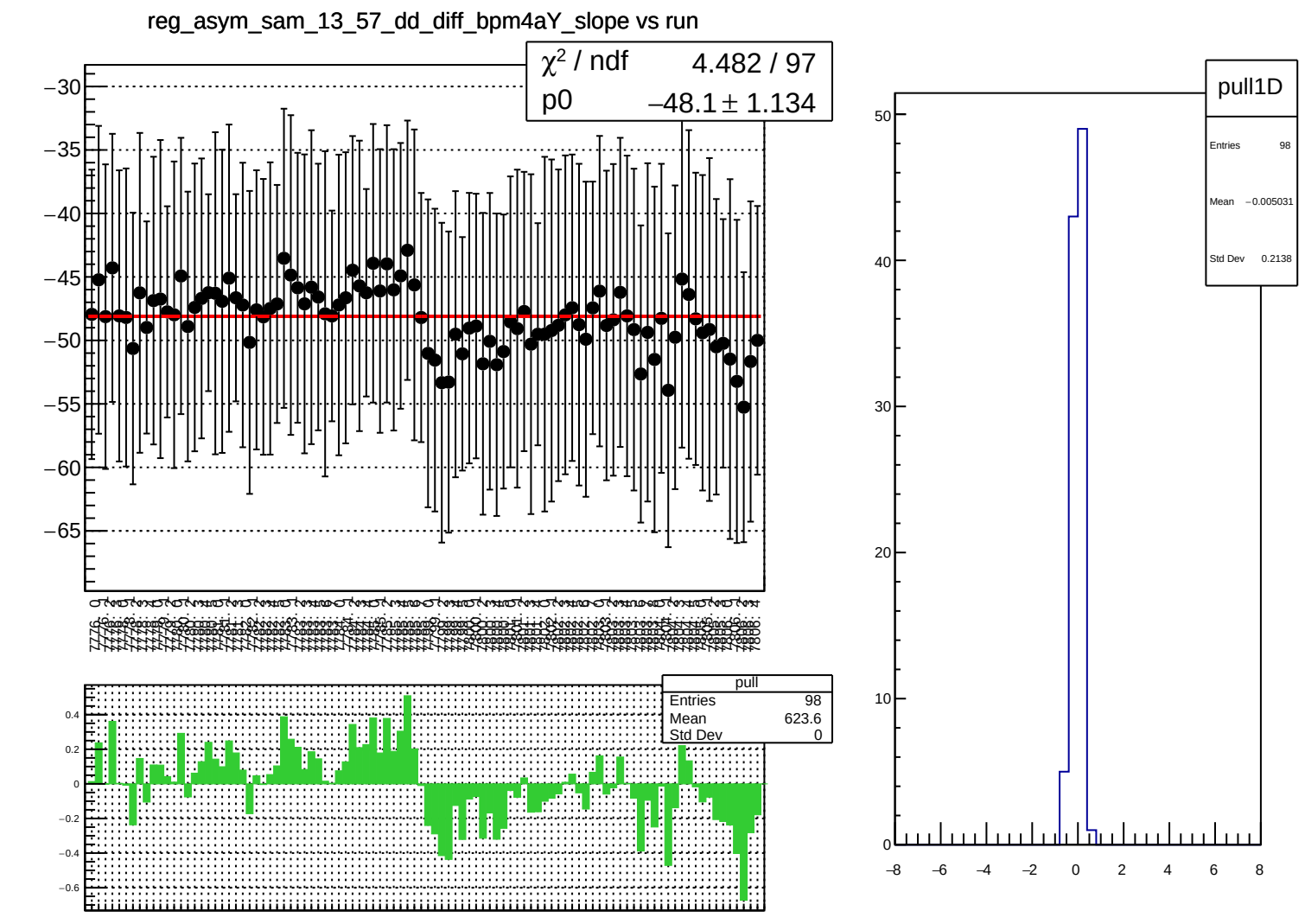

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.185 / 97
p0 33.7 ± 3.531
pull
Entries 98
Mean −757.8
Std Dev 0
pull1D
Entries 98
Mean 0.001678
Std Dev 0.11

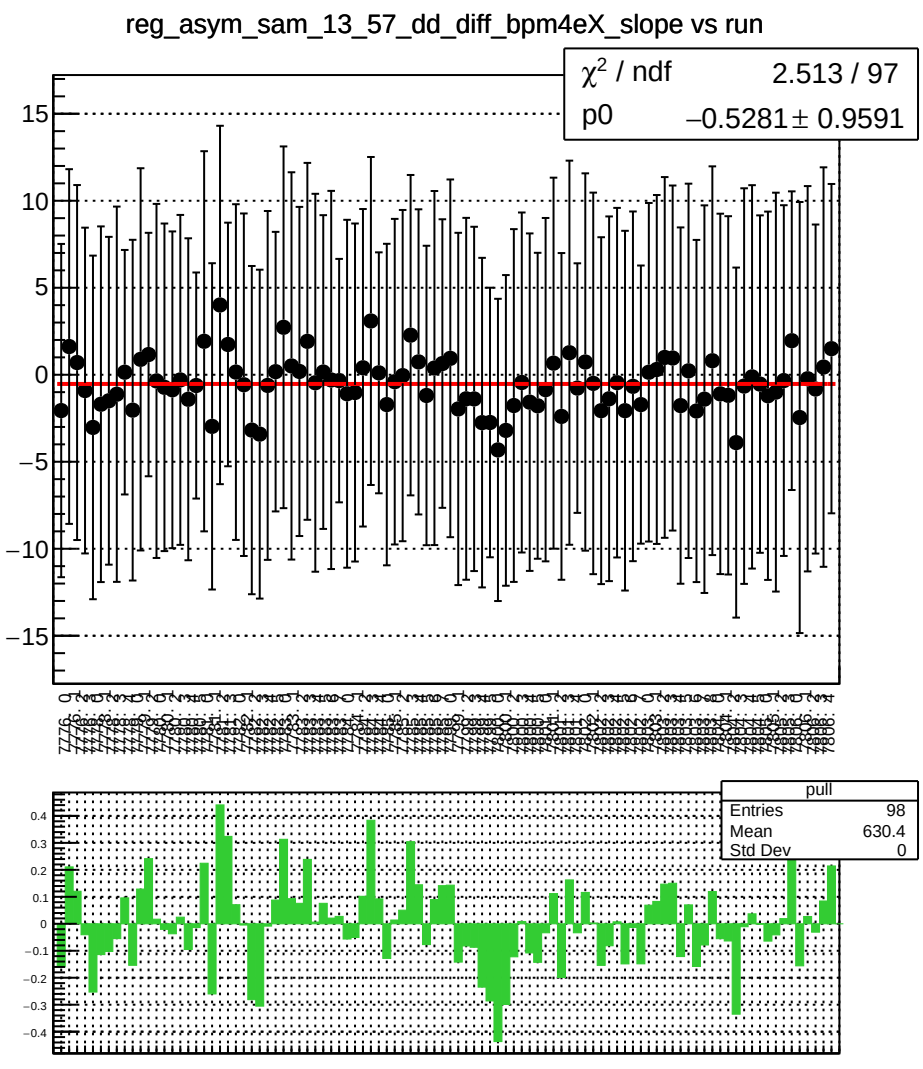

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.368 / 97
p0 −1.928 ± 0.1118
pull
Entries 98
Mean −265.2
Std Dev 0

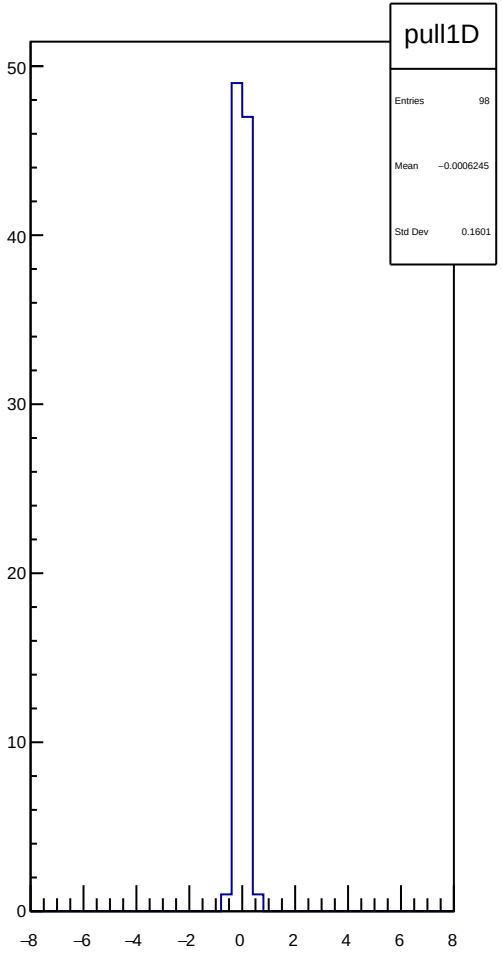

pull1D
Entries 98
Mean 0.002049
Std Dev 0.1182

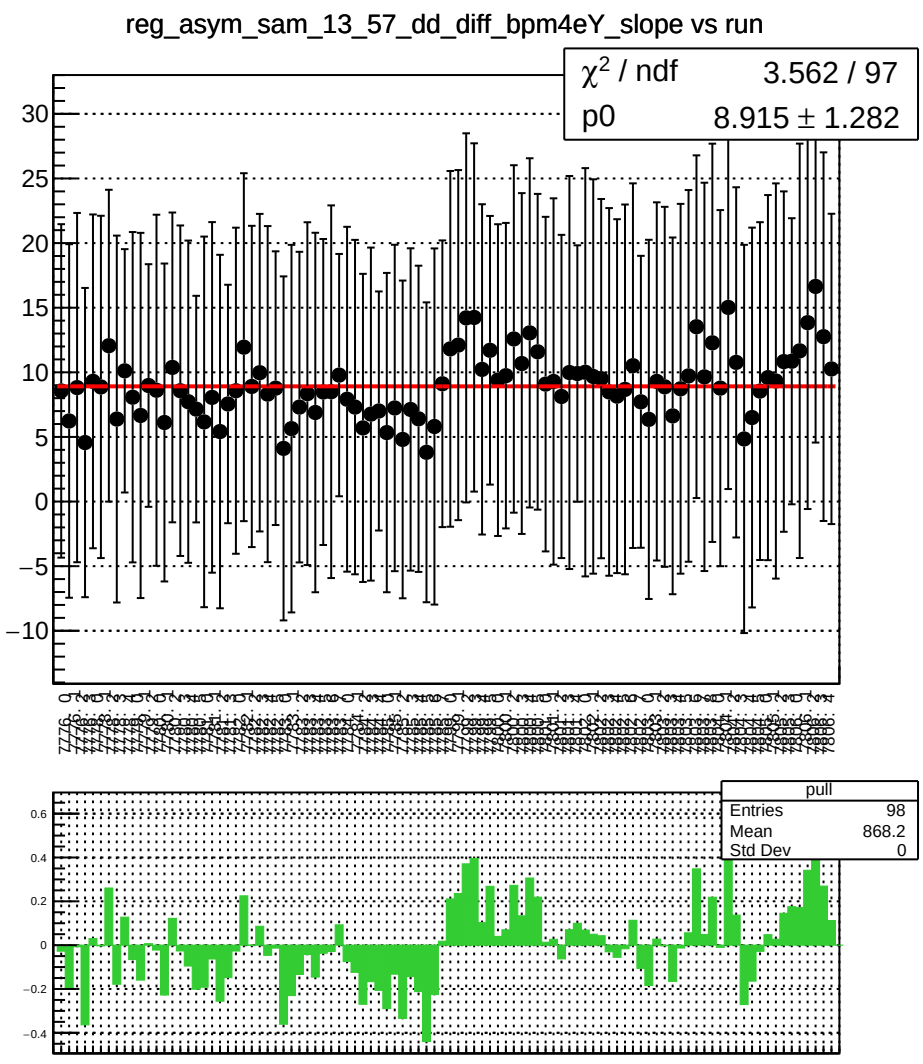

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2.458 / 97
p0 −30.72 ± 1.103
pull
Entries 98
Mean 1269
Std Dev 0

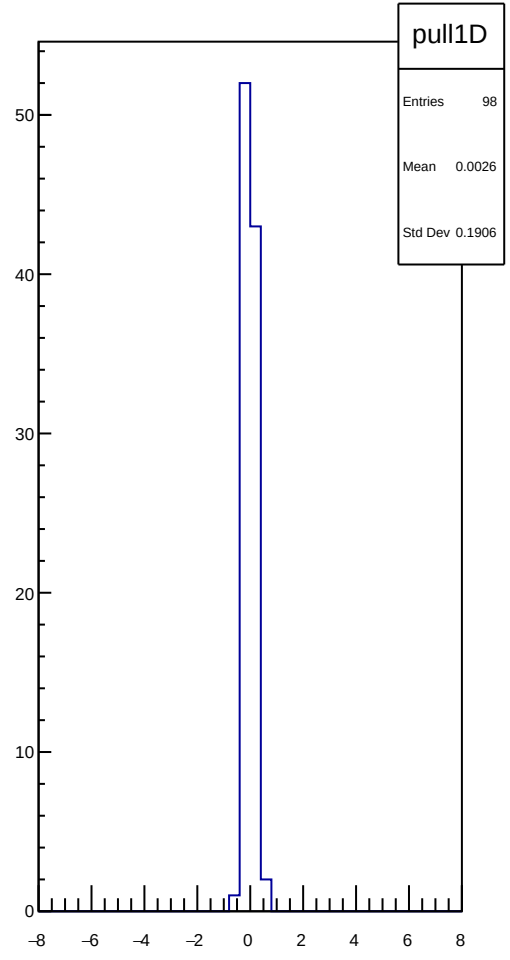

pull1D
Entries 98
Mean 0.0006793
Std Dev 0.1584

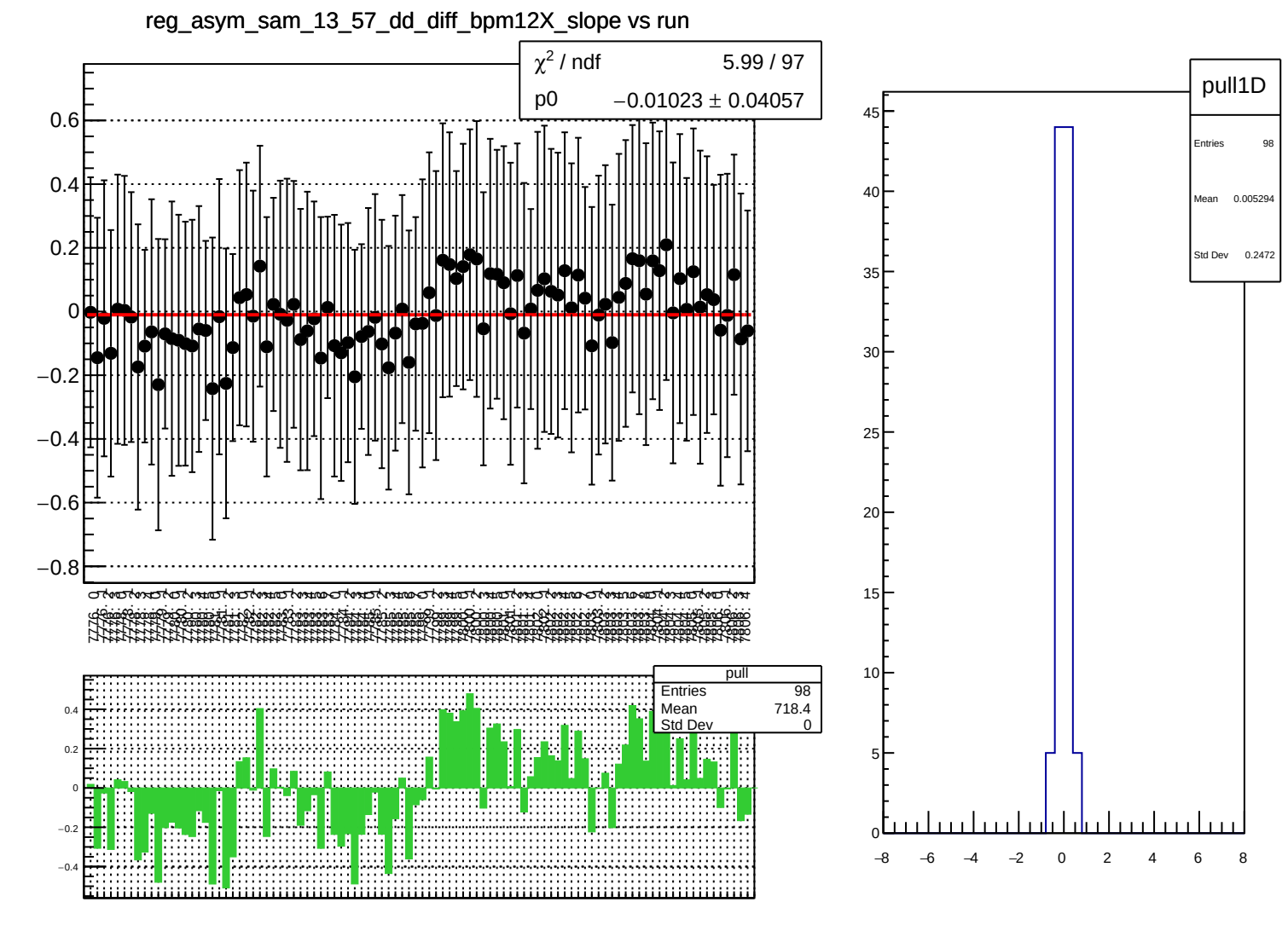

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.482 / 97
p0 −48.1 ± 1.134
pull
Entries 98
Mean 623.6
Std Dev 0
pull1D
Entries 98
Mean −0.005031
Std Dev 0.2138

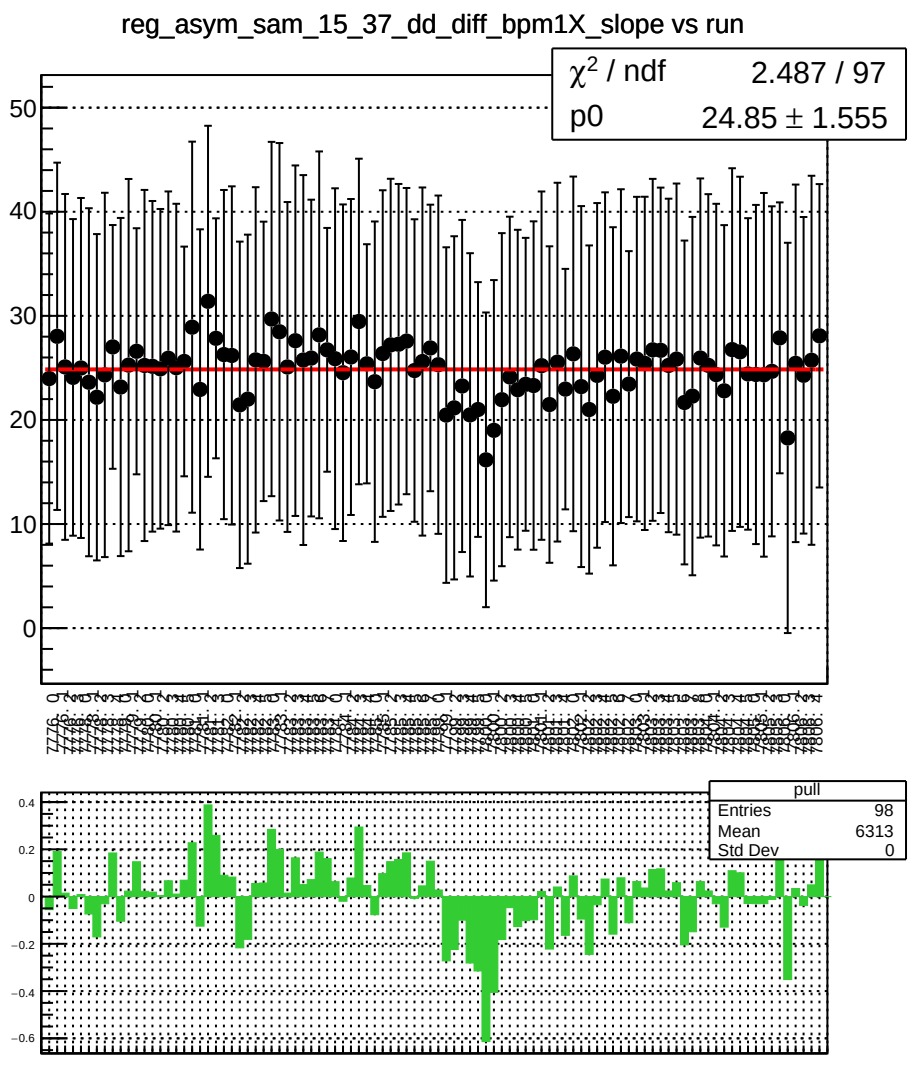

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.513 / 97
p0 −0.5281 ± 0.9591
pull
Entries 98
Mean 630.4
Std Dev 0

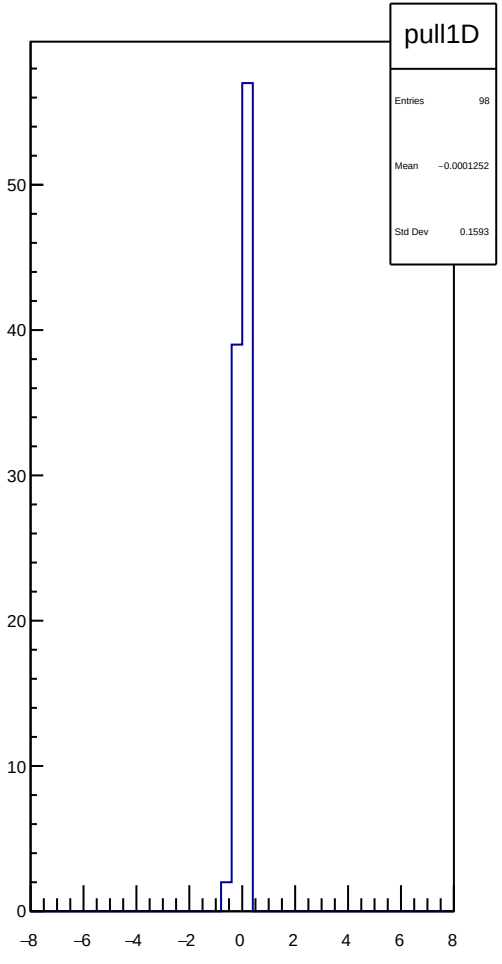

pull1D
Entries 98
Mean −0.0006245
Std Dev 0.1601

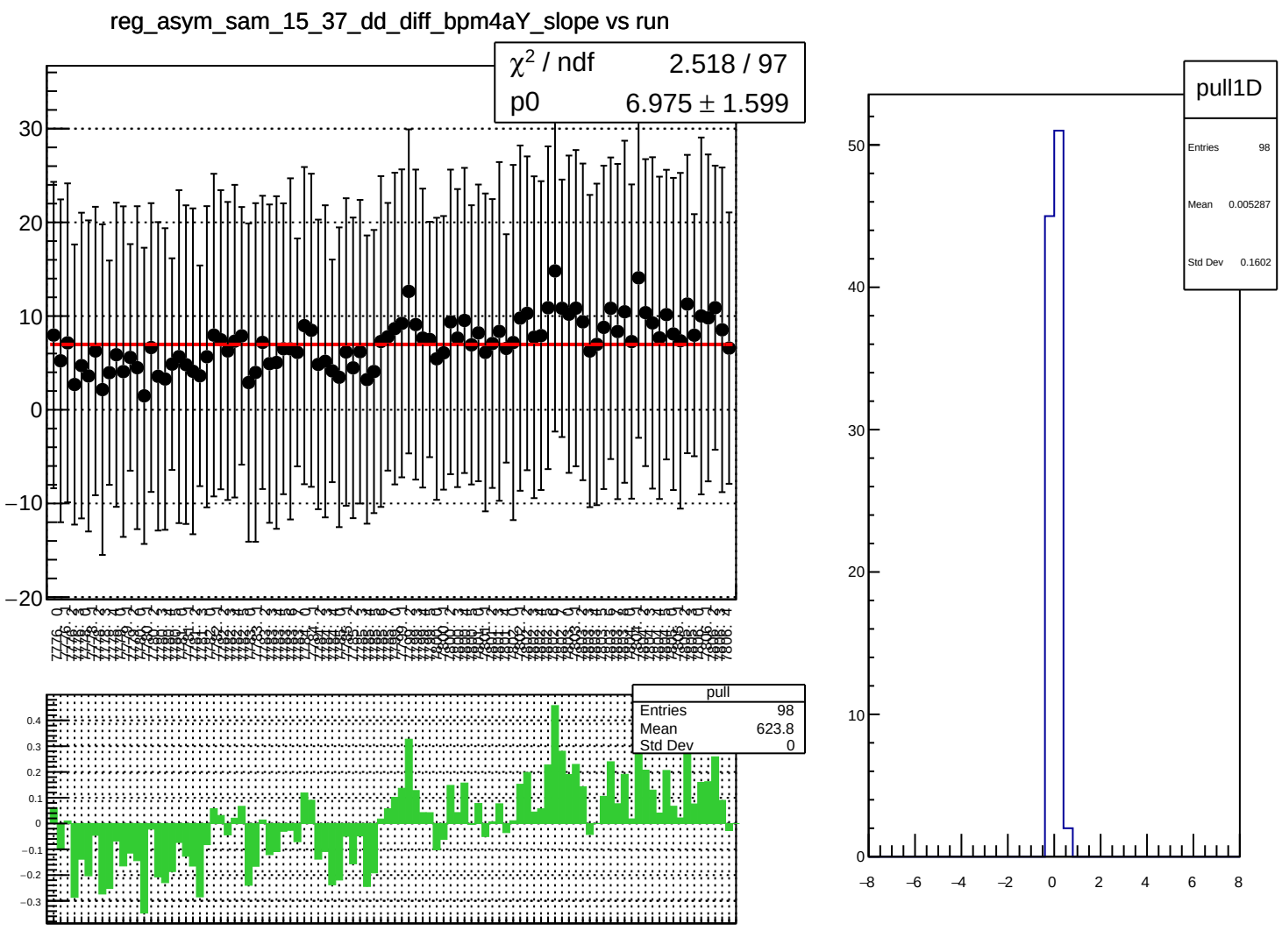

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.562 / 97
p0 8.915 ± 1.282
pull
Entries 98
Mean 868.2
Std Dev 0

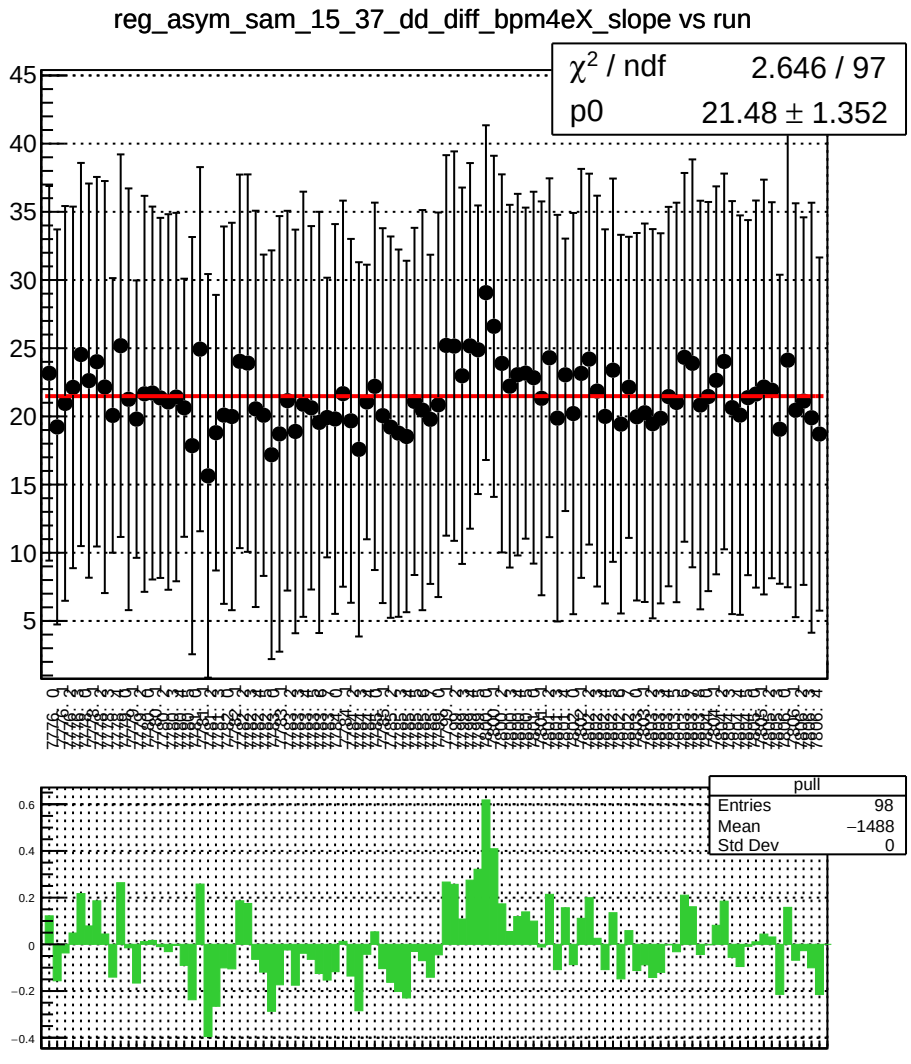

pull1D
Entries 98
Mean 0.0026
Std Dev 0.1906

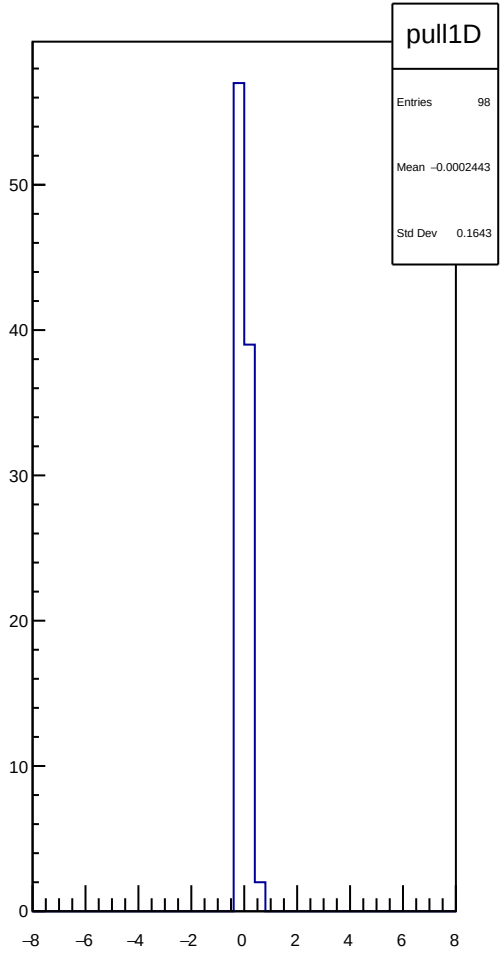

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 5.99 / 97
p0 −0.01023 ± 0.04057
pull
Entries 98
Mean 718.4
Std Dev 0
pull1D
Entries 98
Mean 0.005294
Std Dev 0.2472

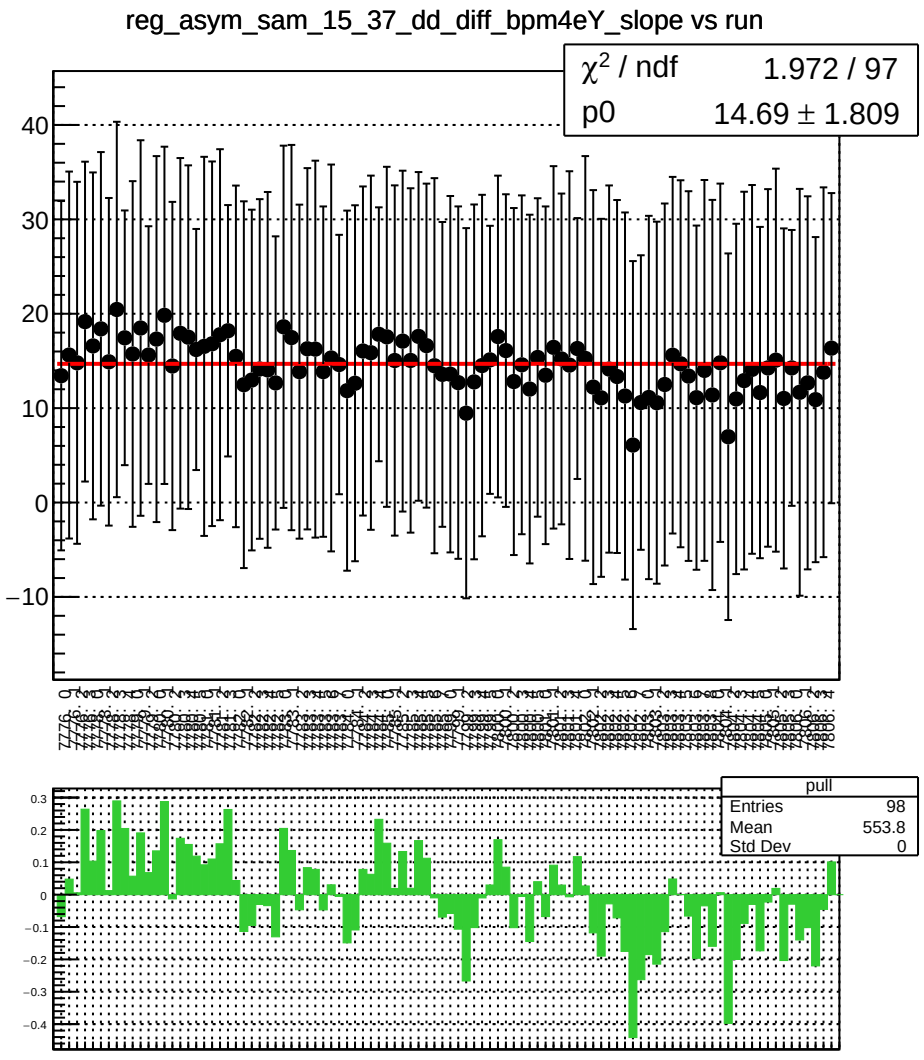

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 2.487 / 97
p0 24.85 ± 1.555
pull
Entries 98
Mean 6313
Std Dev 0

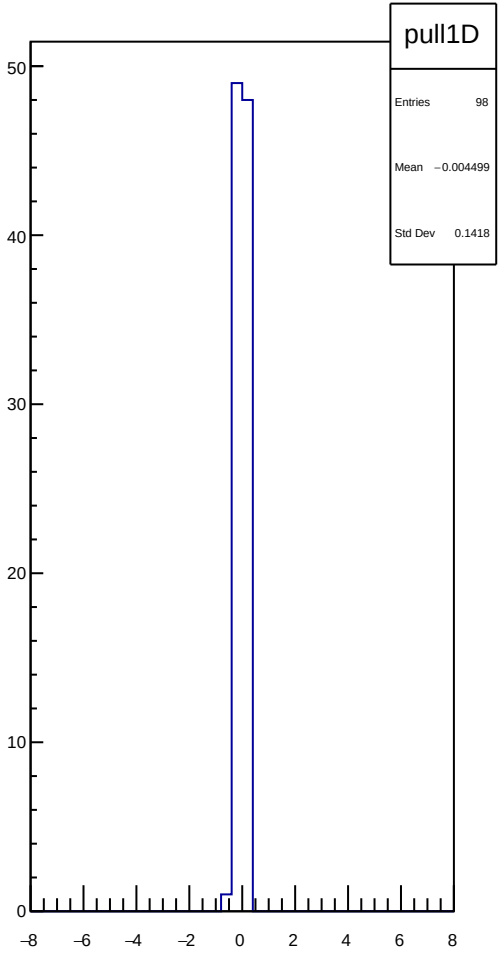

pull1D
Entries 98
Mean −0.0001252
Std Dev 0.1593

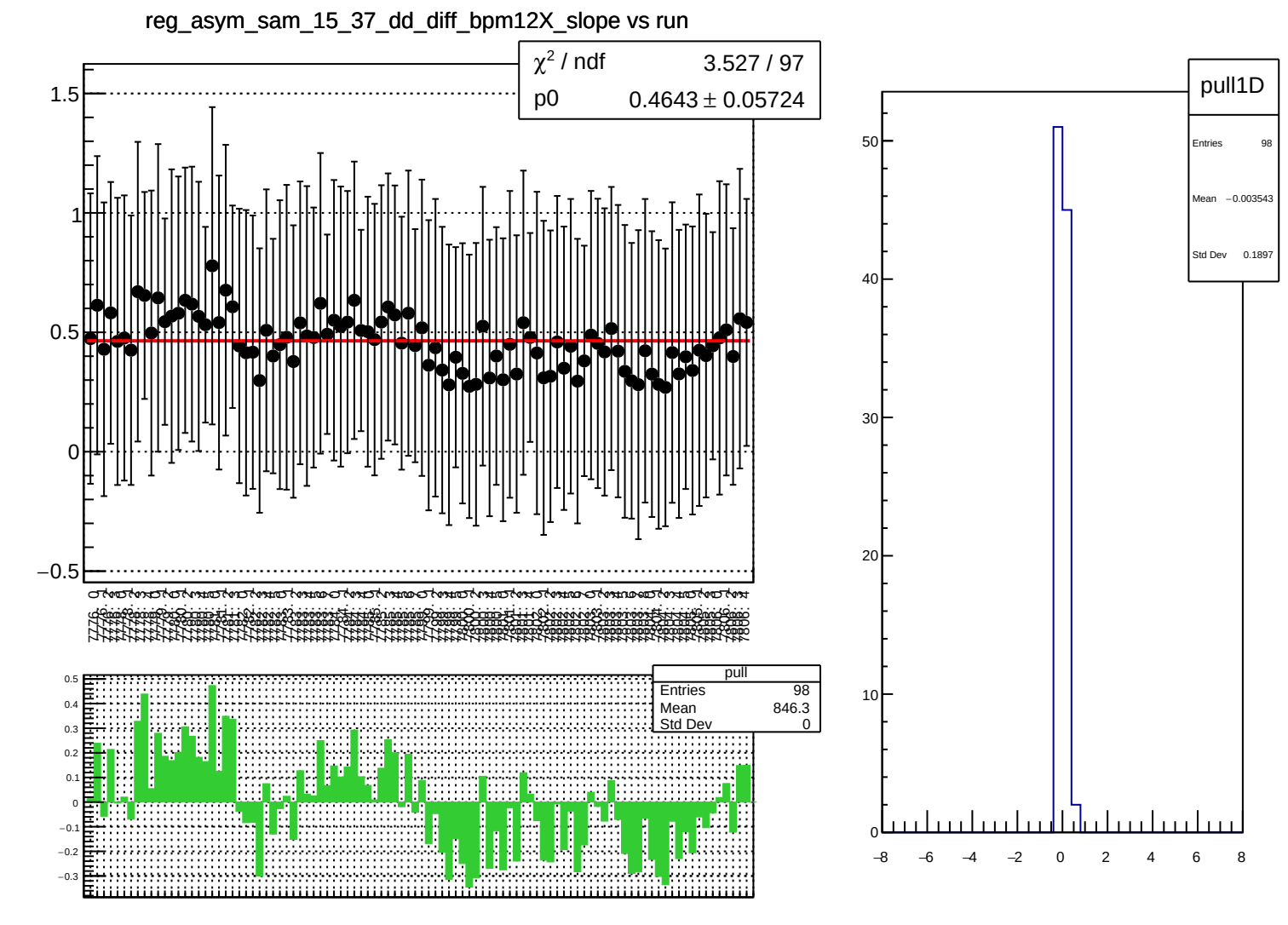

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.518 / 97
p0 6.975 ± 1.599
pull
Entries 98
Mean 623.8
Std Dev 0
pull1D
Entries 98
Mean 0.005287
Std Dev 0.1602

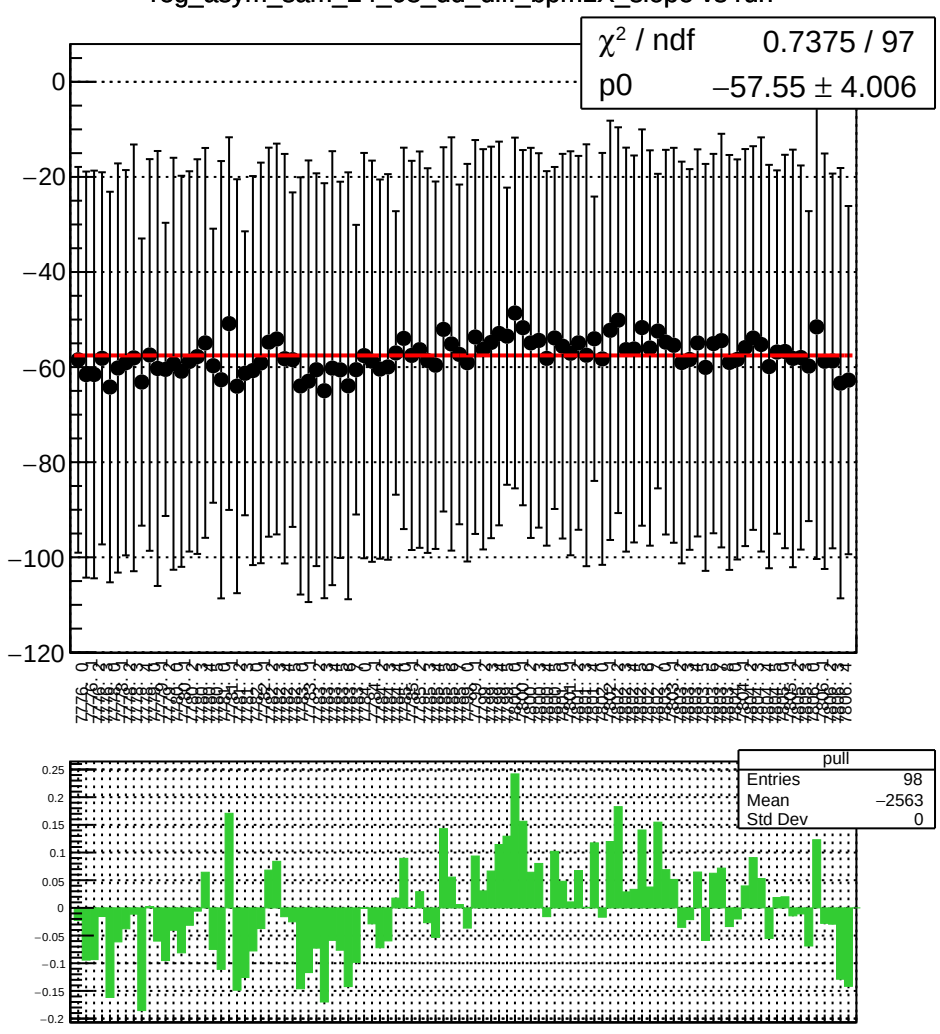

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.646 / 97
p0 21.48 ± 1.352
pull
Entries 98
Mean −1488
Std Dev 0

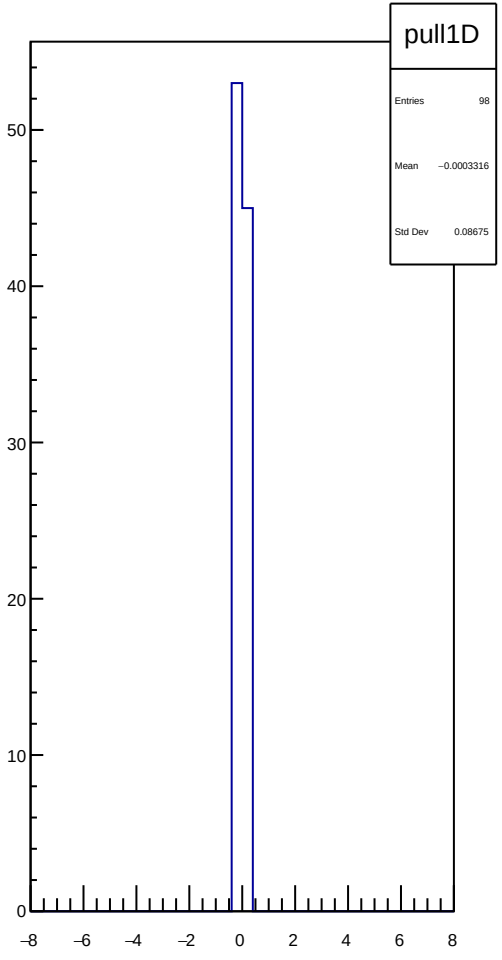

pull1D
Entries 98
Mean −0.0002443
Std Dev 0.1643

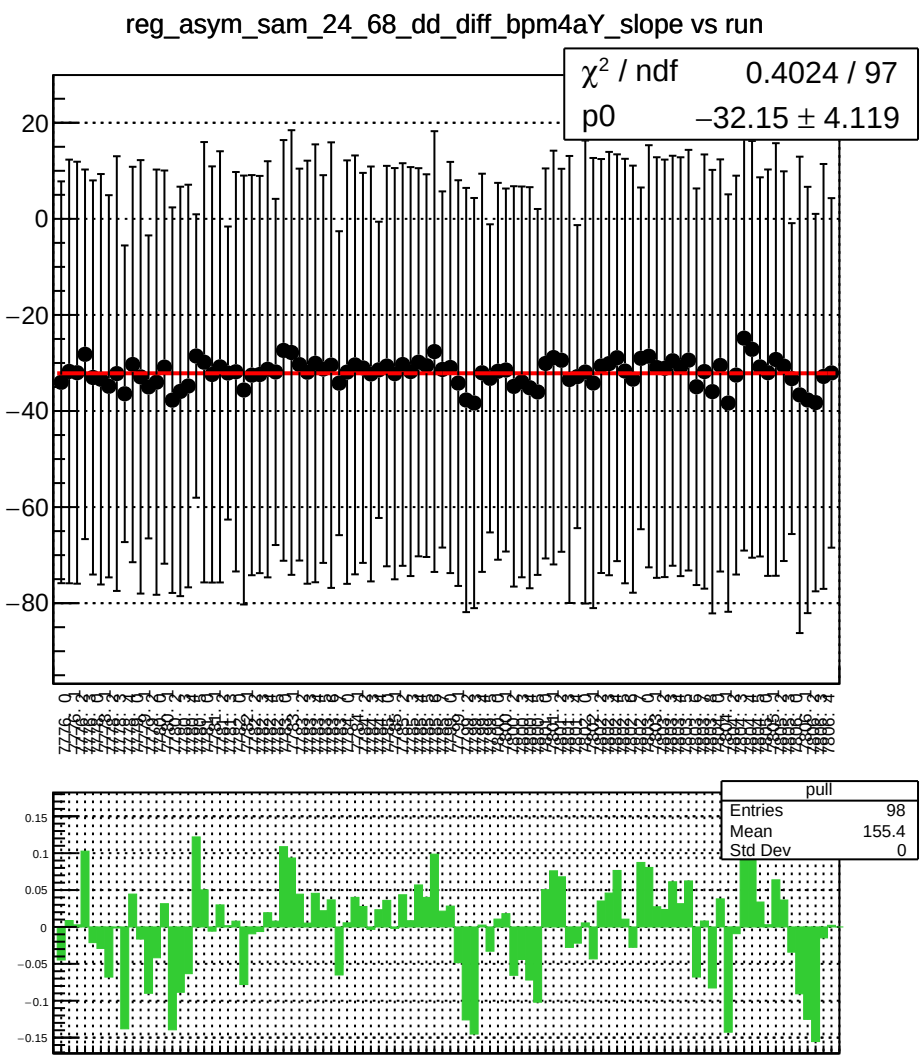

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.972 / 97
p0 14.69 ± 1.809
pull
Entries 98
Mean 553.8
Std Dev 0

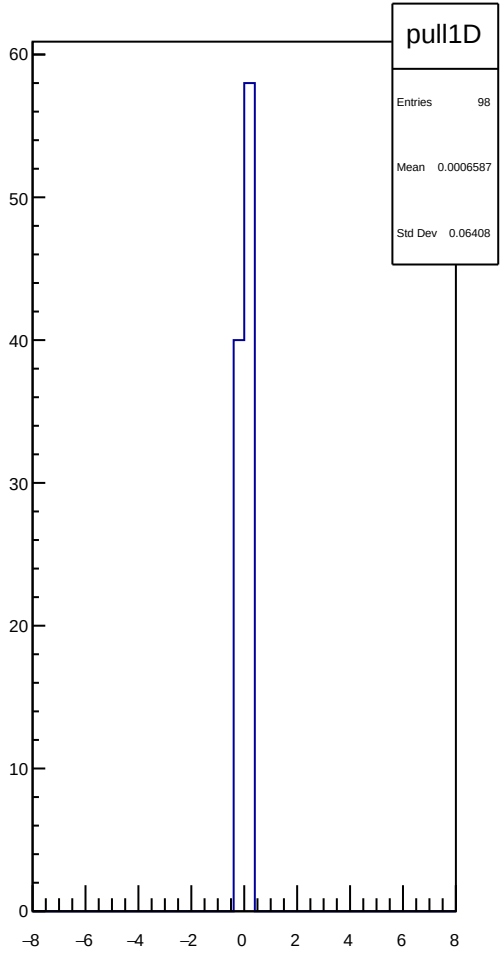

pull1D
Entries 98
Mean −0.004499
Std Dev 0.1418

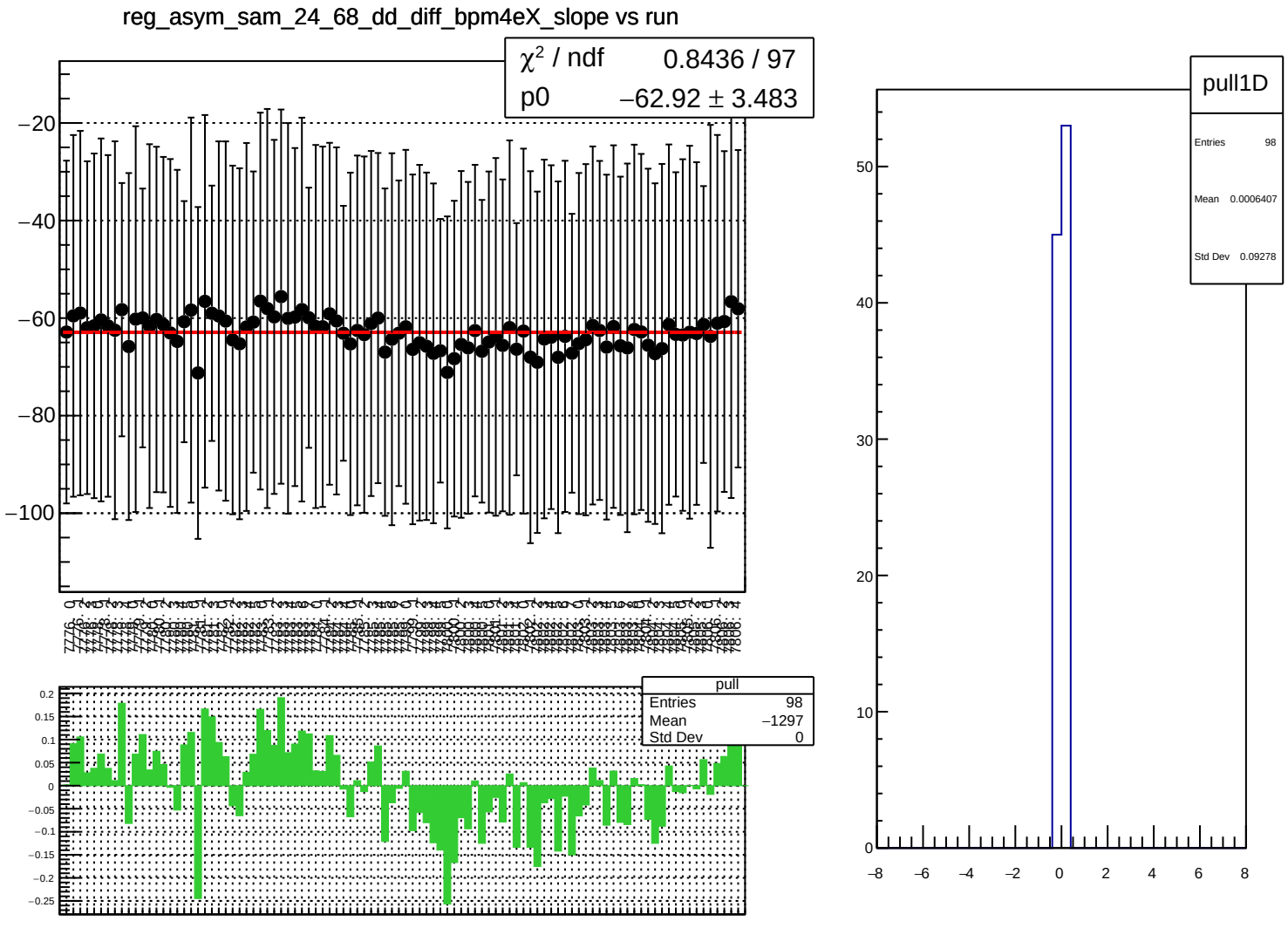

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.527 / 97
p0 0.4643 ± 0.05724
pull
Entries 98
Mean 846.3
Std Dev 0
pull1D
Entries 98
Mean −0.003543
Std Dev 0.1897

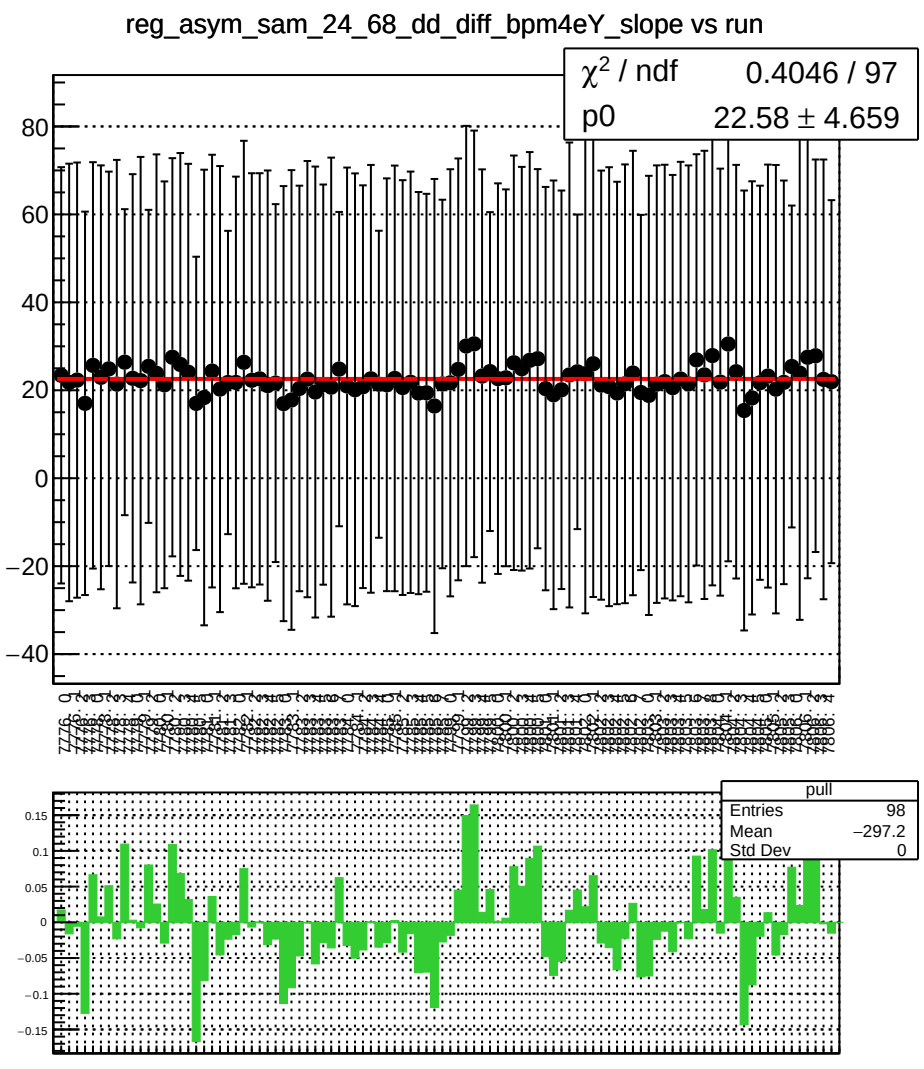

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.7375 / 97
p0 −57.55 ± 4.006
pull
Entries 98
Mean −2563
Std Dev 0

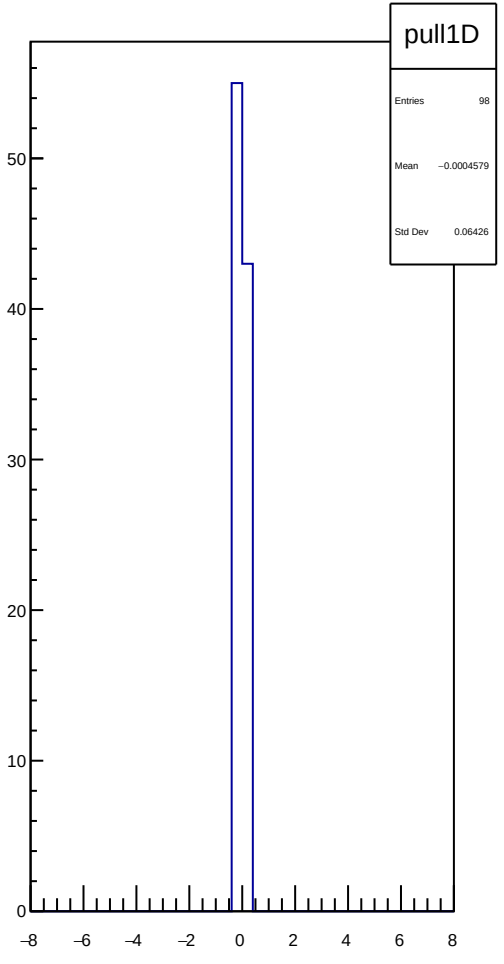

pull1D
Entries 98
Mean −0.0003316
Std Dev 0.08675

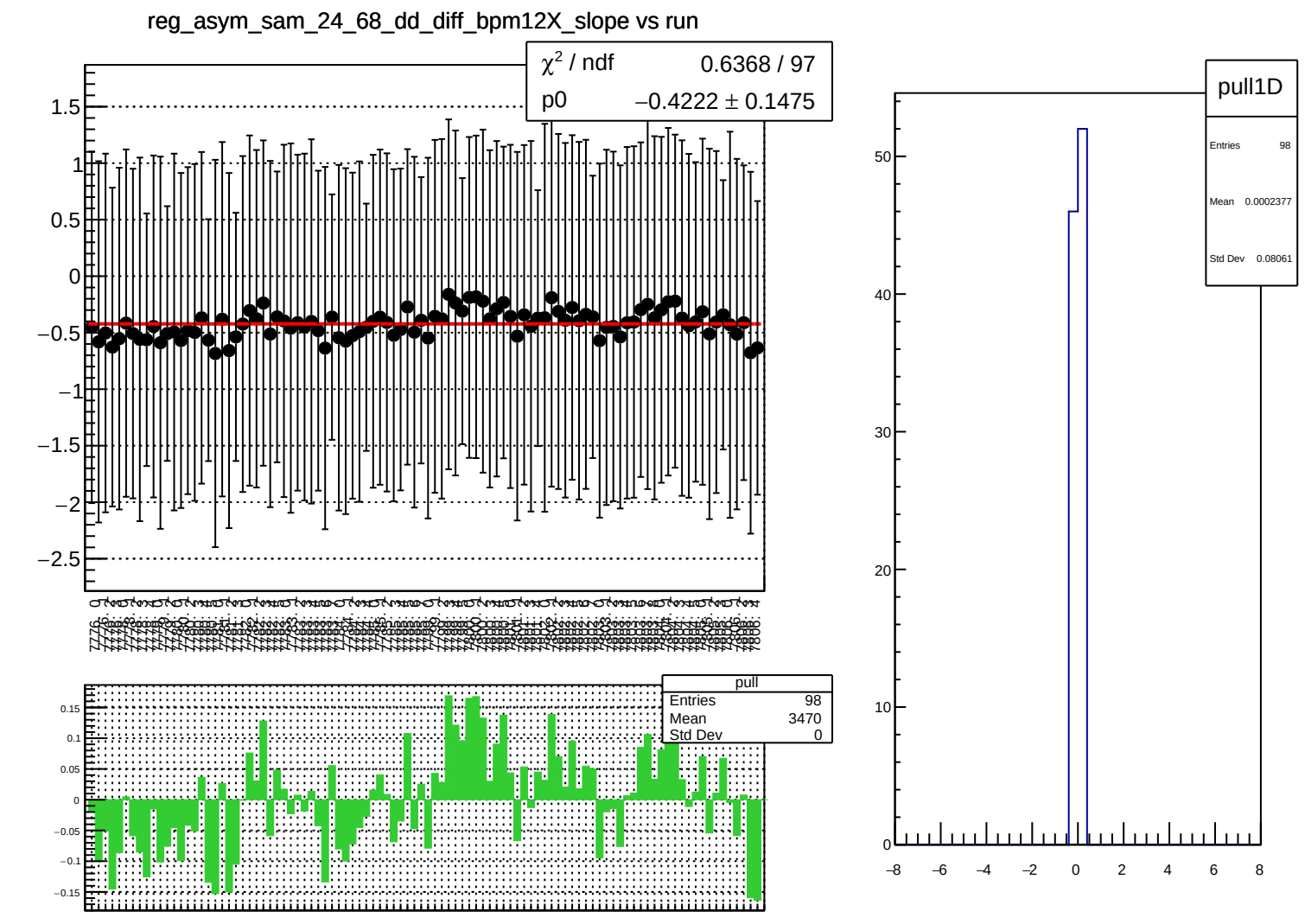

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4024 / 97
p0 −32.15 ± 4.119
20
0
−20
−40
−60
−80
pull
Entries 98
Mean 155.4
Std Dev 0
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

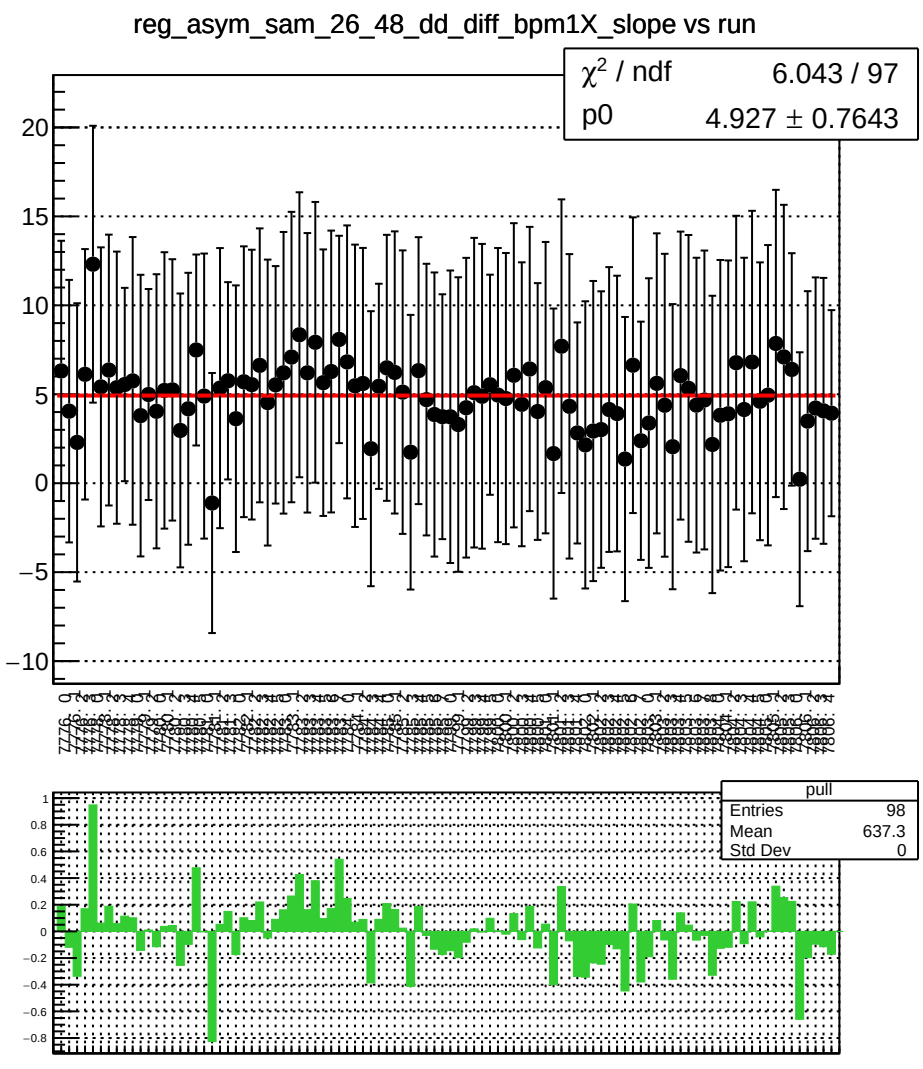

pull1D
Entries 98
Mean 0.0006587
Std Dev 0.06408
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

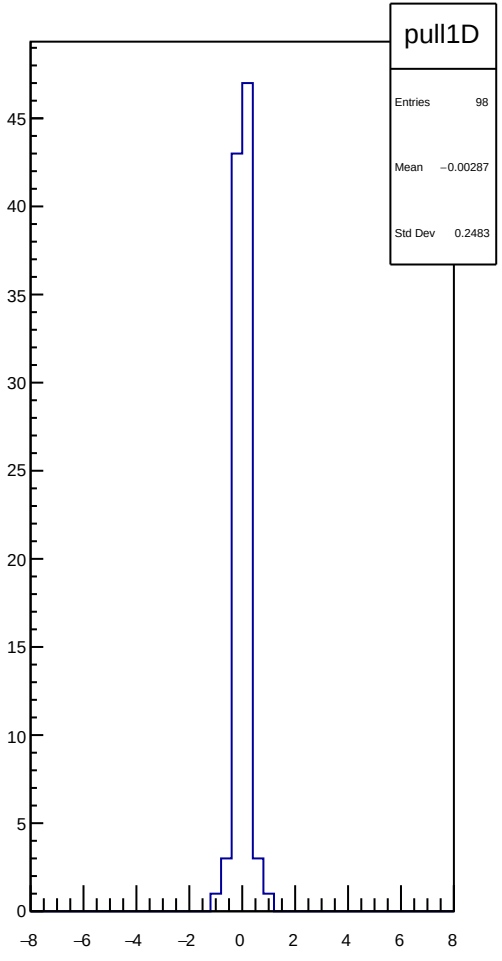

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8436 / 97
p0 −62.92 ± 3.483
−20
−40
−60
−80
−100
pull
Entries 98
Mean −1297
Std Dev 0
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 98
Mean 0.0006407
Std Dev 0.09278
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

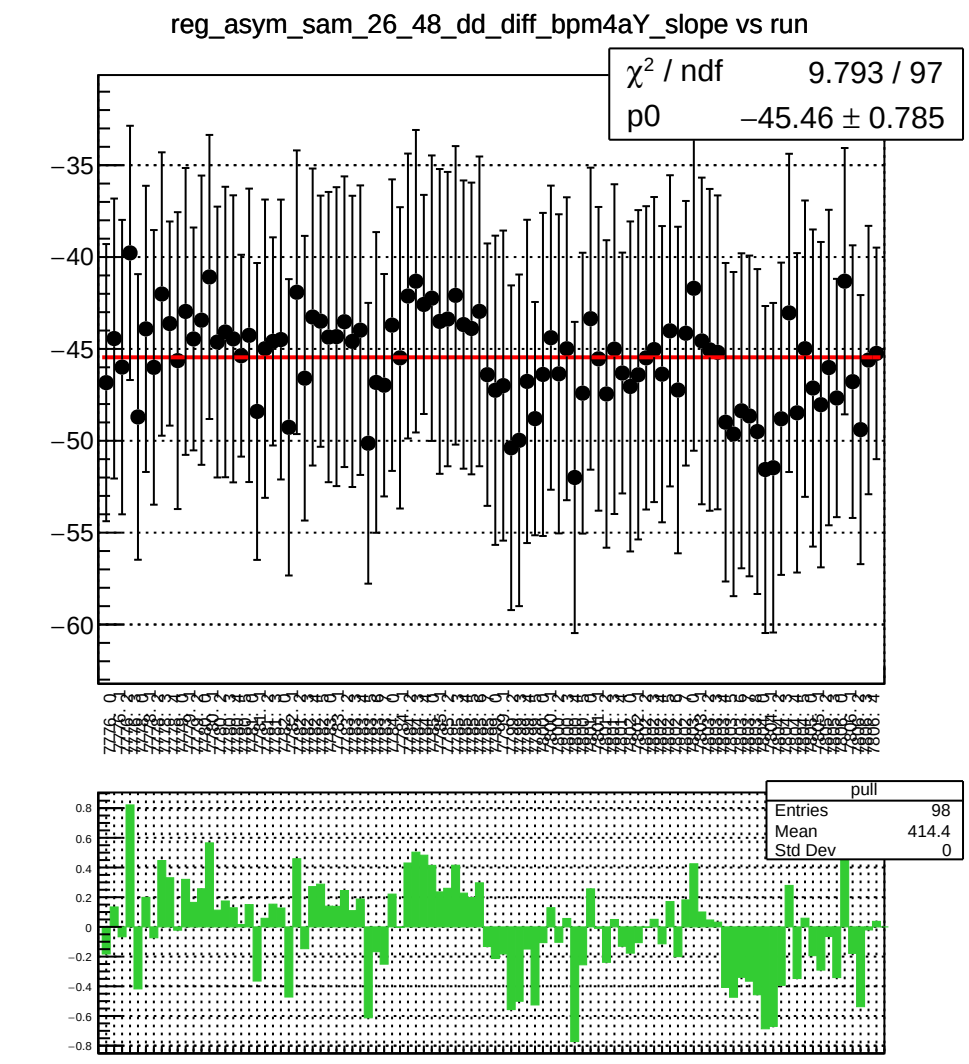

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.4046 / 97
p0 22.58 ± 4.659
pull
Entries 98
Mean −297.2
Std Dev 0

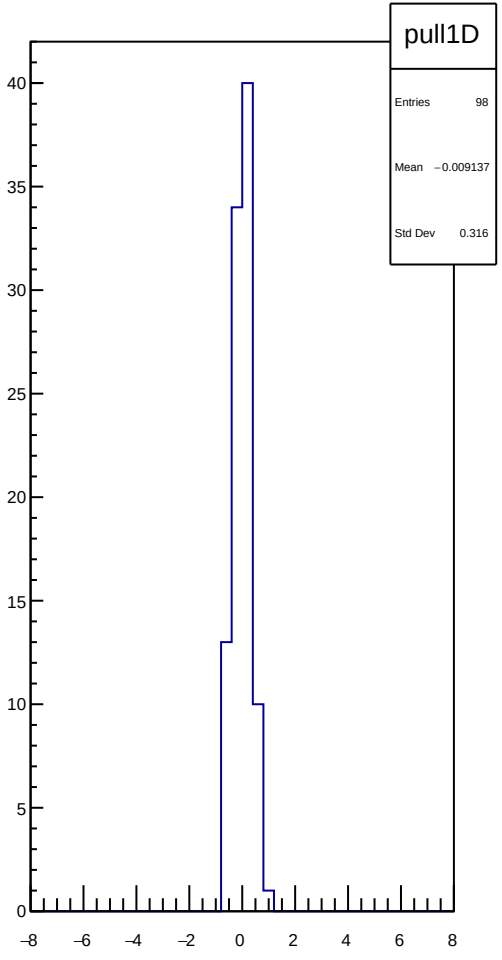

pull1D
Entries 98
Mean −0.0004579
Std Dev 0.06426

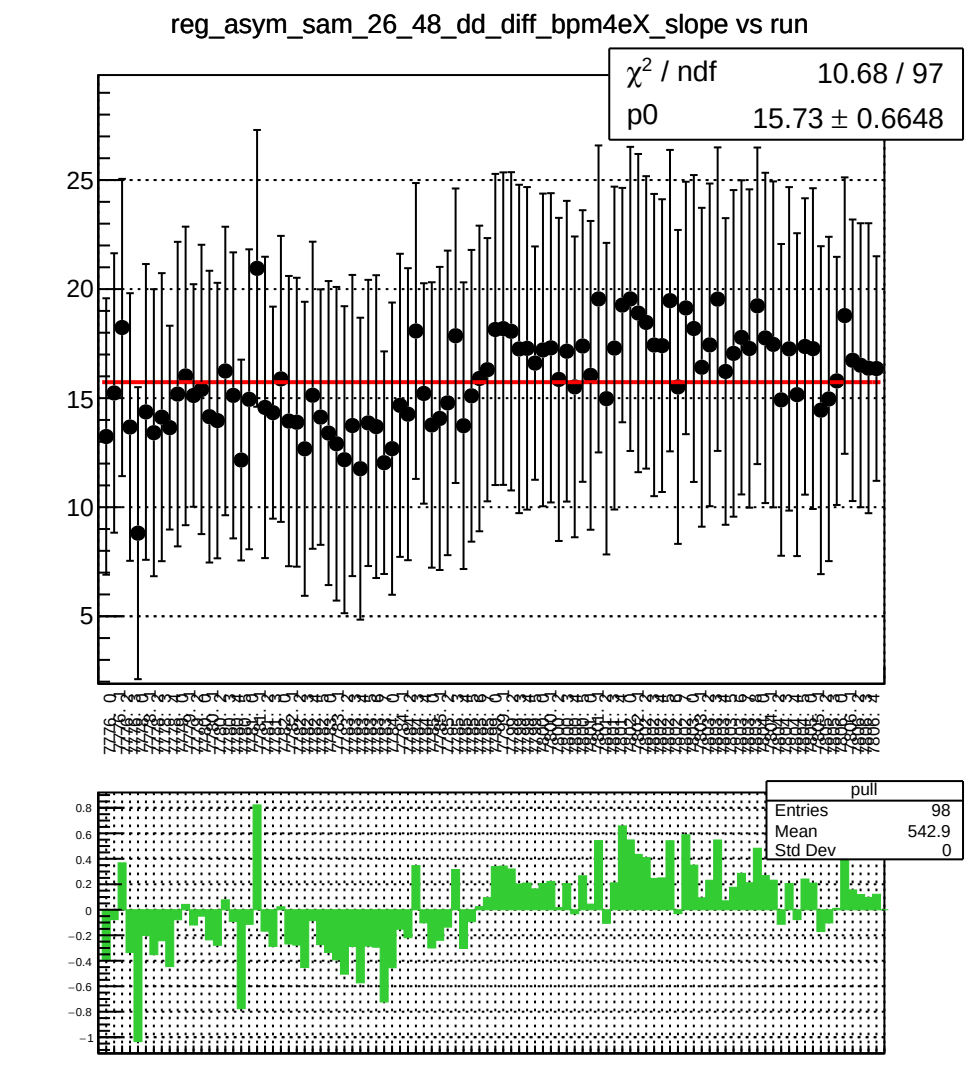

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6368 / 97
p0 −0.4222 ± 0.1475
pull
Entries 98
Mean 3470
Std Dev 0
pull1D
Entries 98
Mean 0.0002377
Std Dev 0.08061

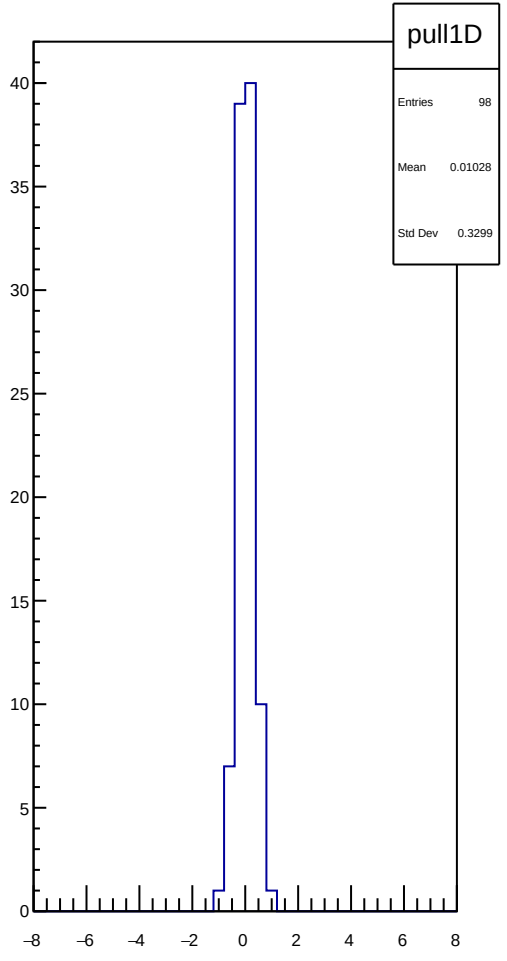

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.043 / 97
p0 4.927 ± 0.7643
pull
Entries 98
Mean 637.3
Std Dev 0

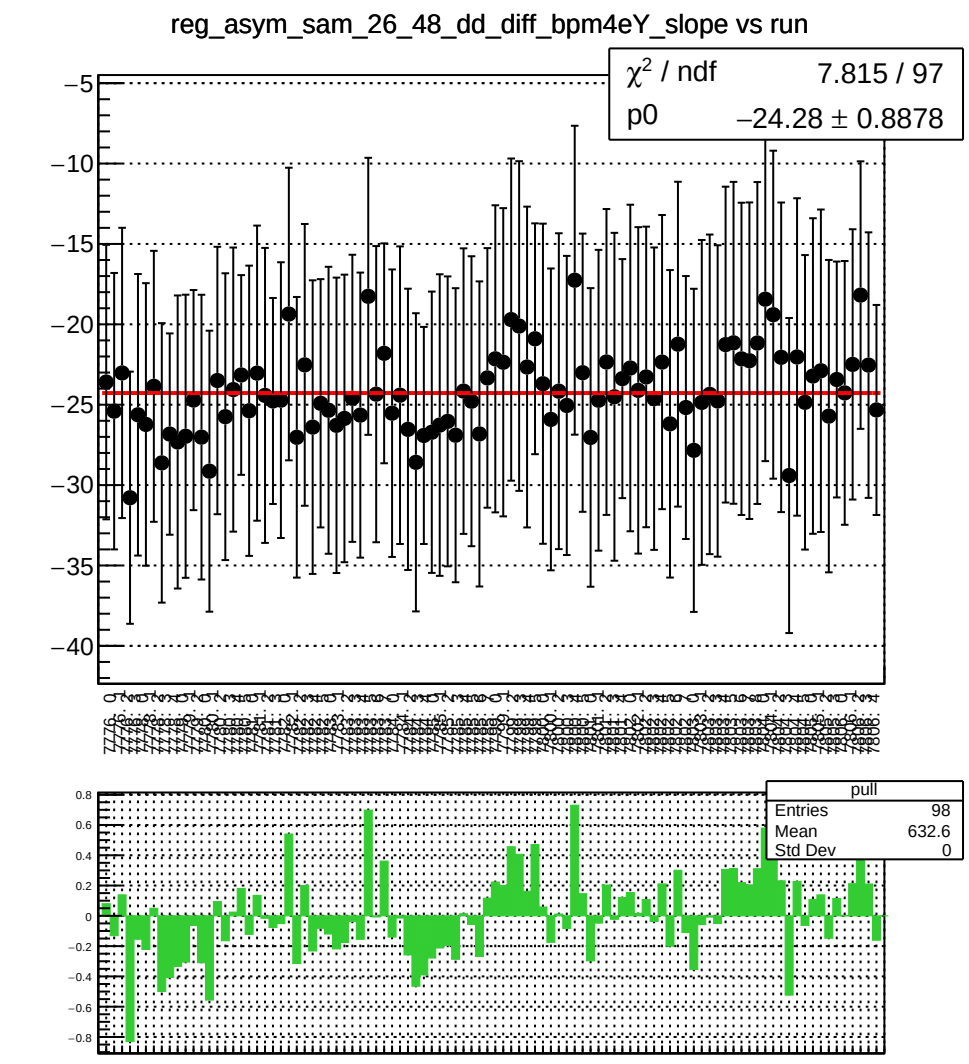

pull1D
Entries 98
Mean −0.00287
Std Dev 0.2483

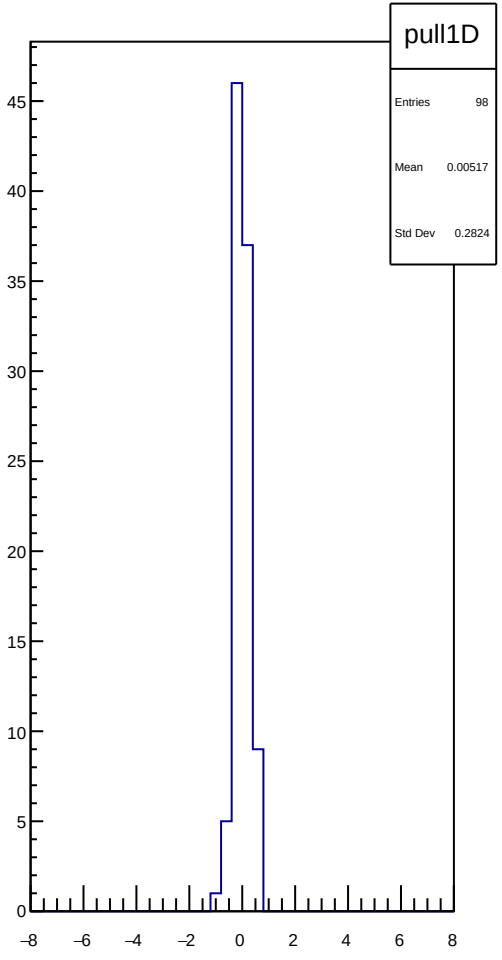

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.793 / 97
p0 −45.46 ± 0.785
pull
Entries 98
Mean 414.4
Std Dev 0

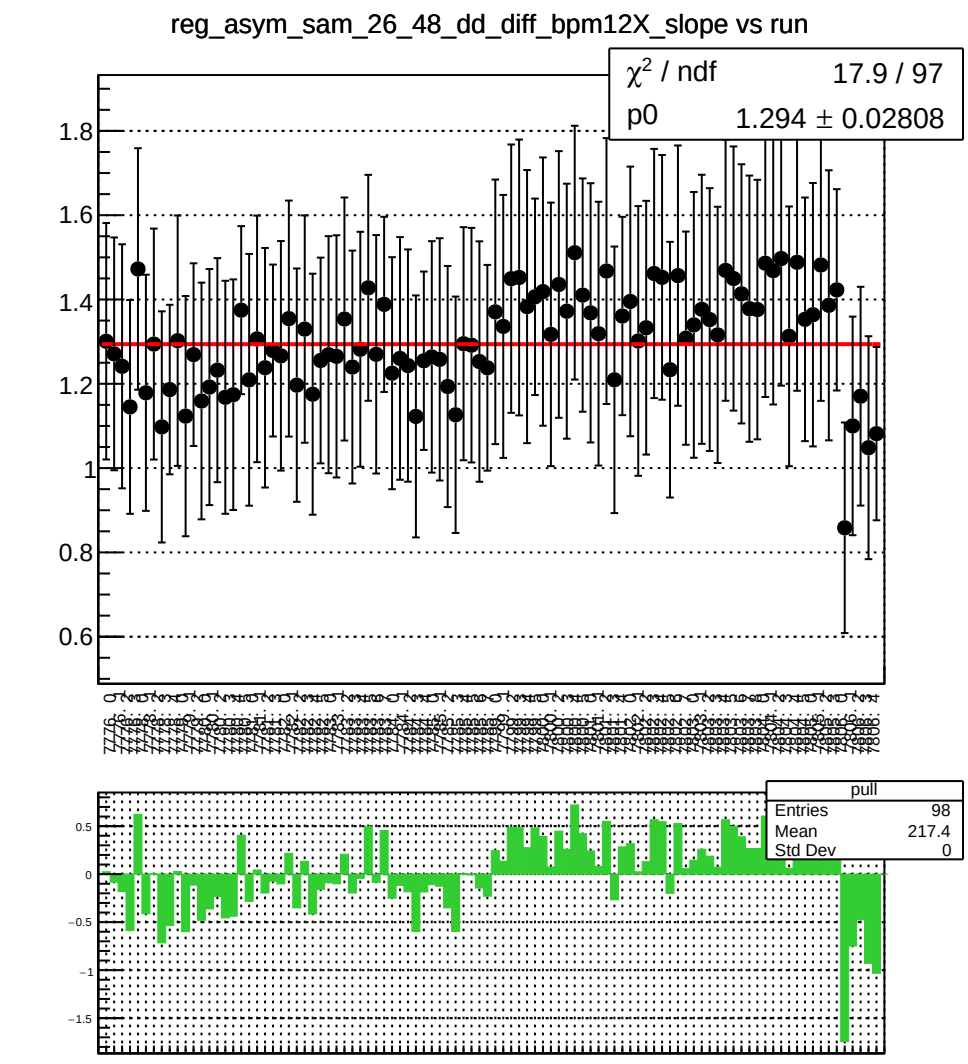

pull1D
Entries 98
Mean −0.009137
Std Dev 0.316

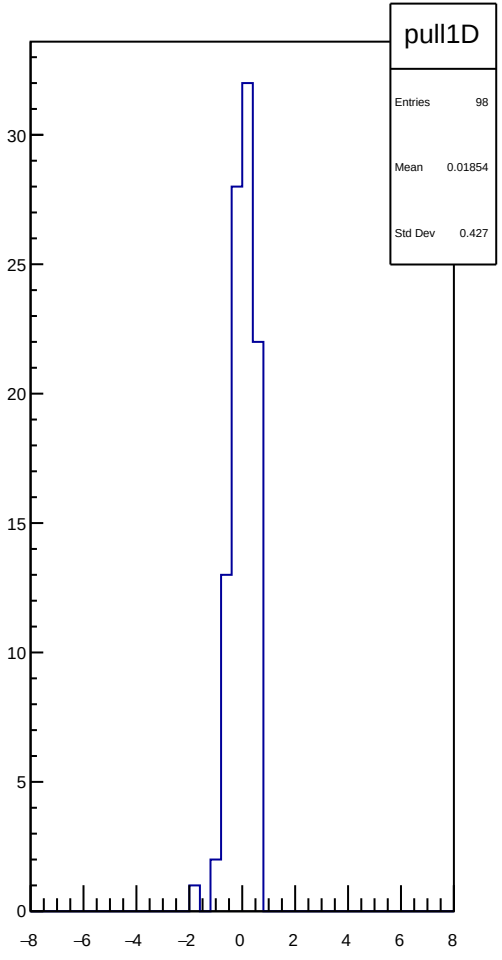

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.68 / 97
p0 15.73 ± 0.6648
pull
Entries 98
Mean 542.9
Std Dev 0

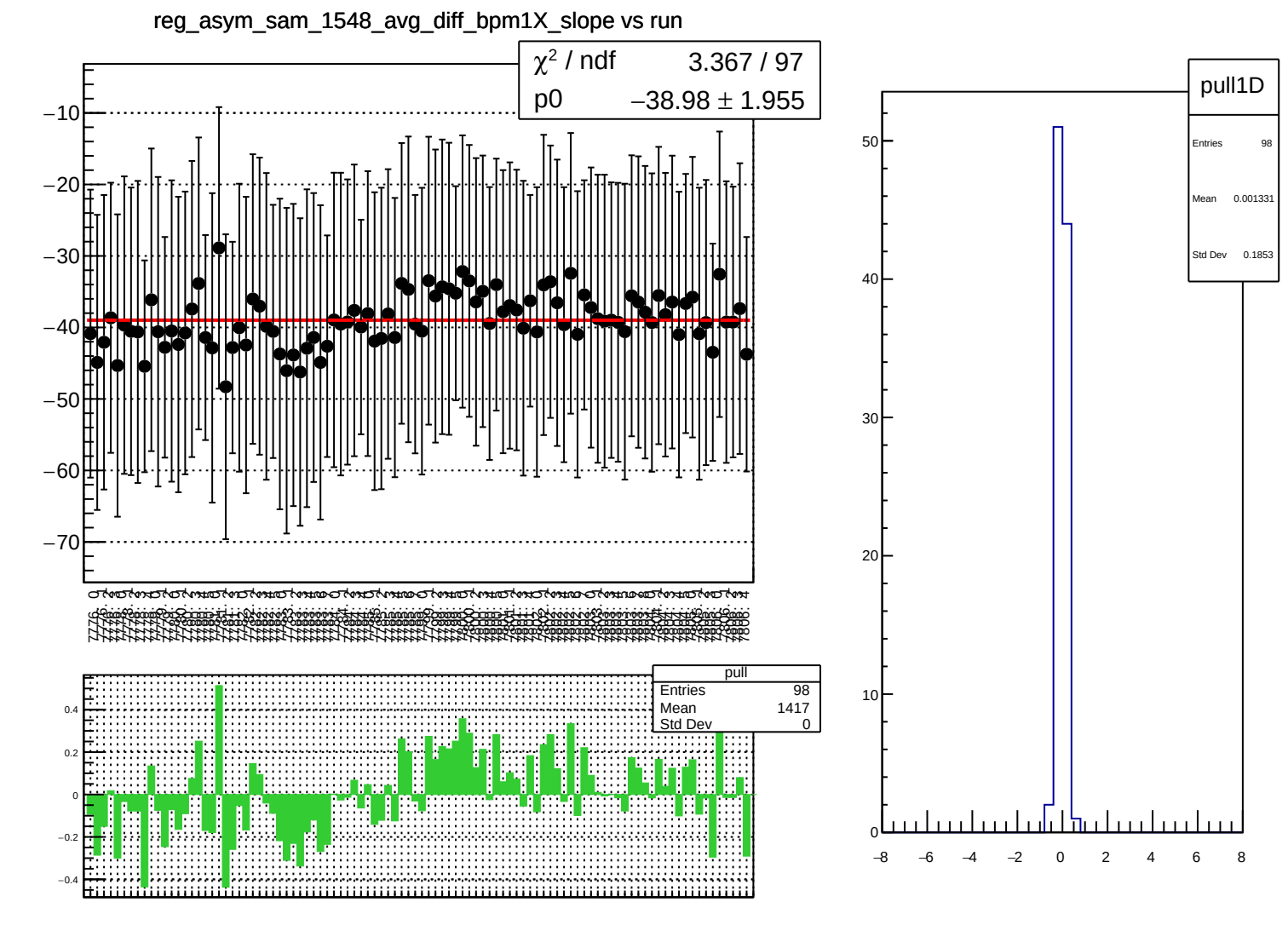

pull1D
Entries 98
Mean 0.01028
Std Dev 0.3299

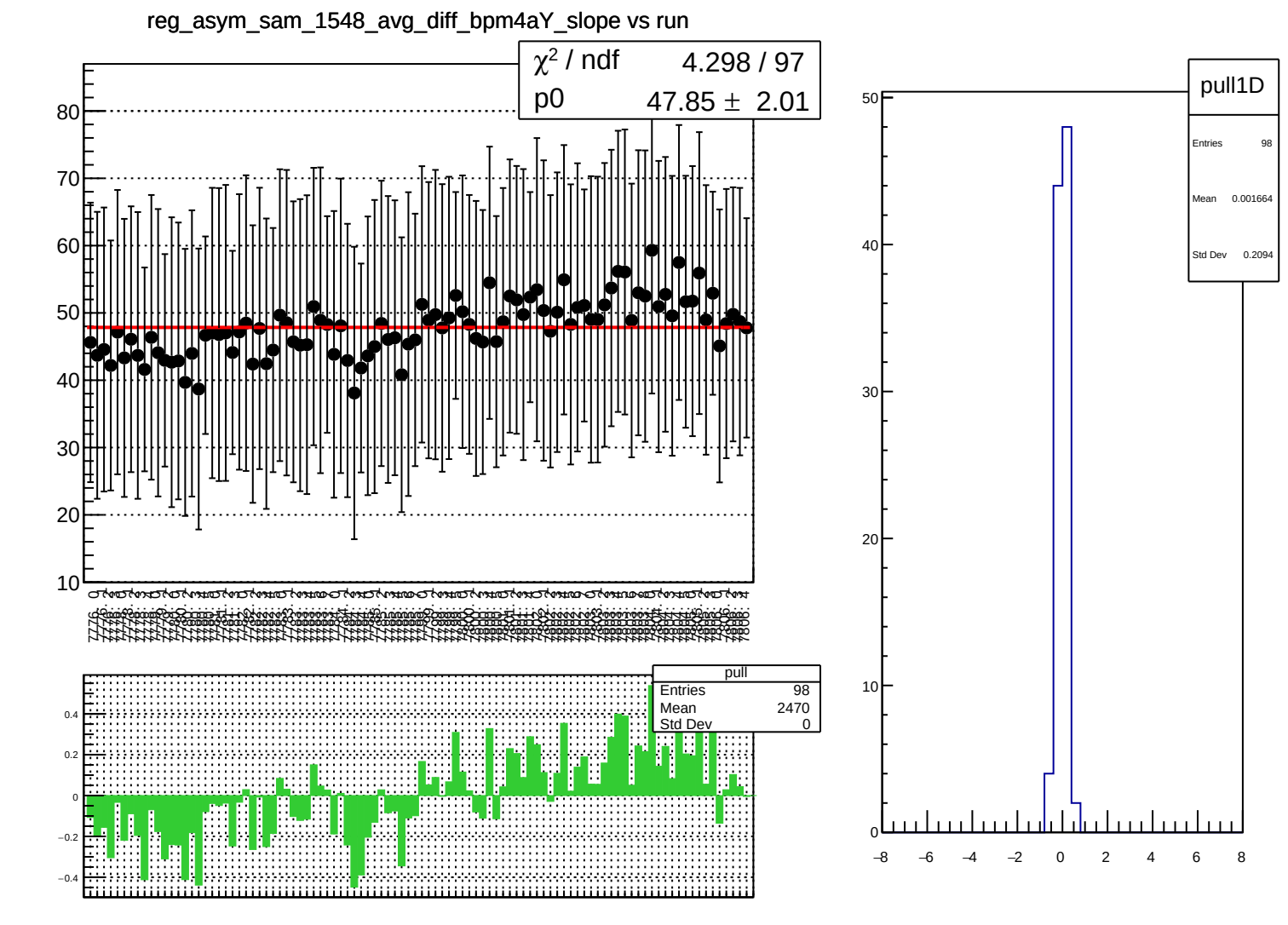

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.815 / 97
p0 −24.28 ± 0.8878
pull
Entries 98
Mean 632.6
Std Dev 0

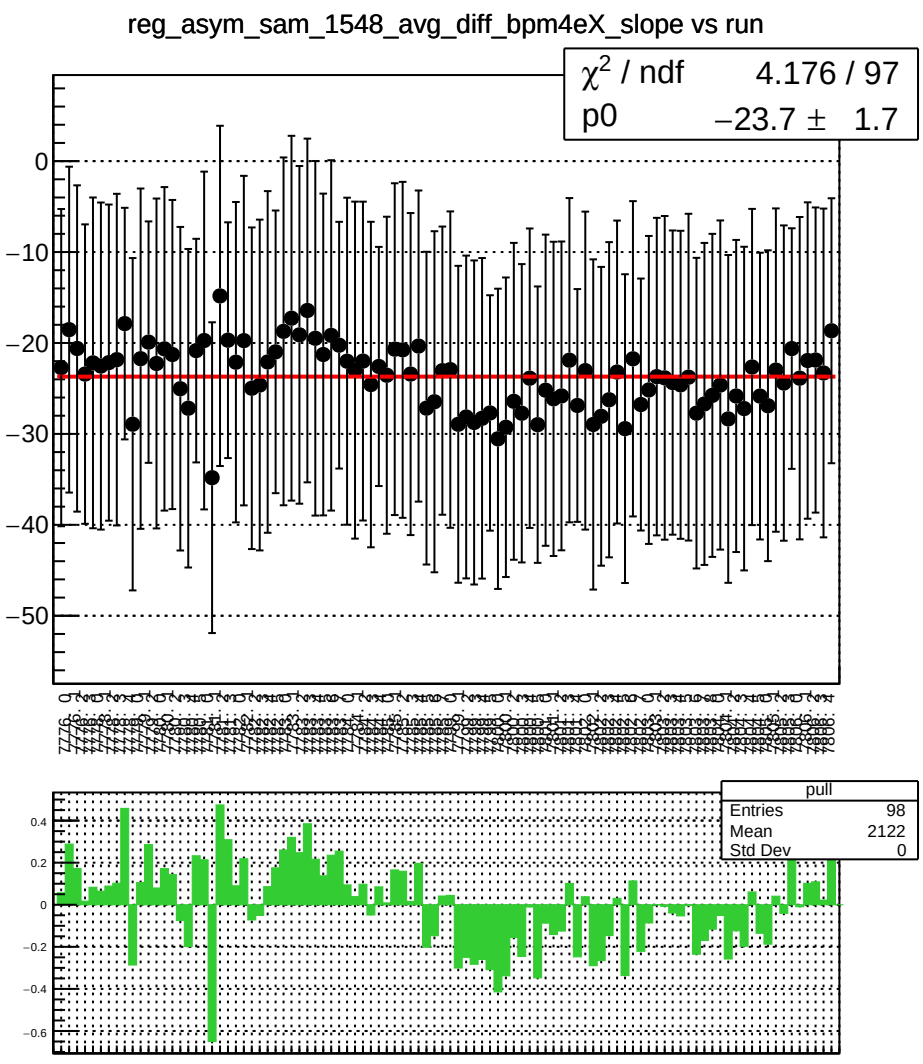

pull1D
Entries 98
Mean 0.00517
Std Dev 0.2824

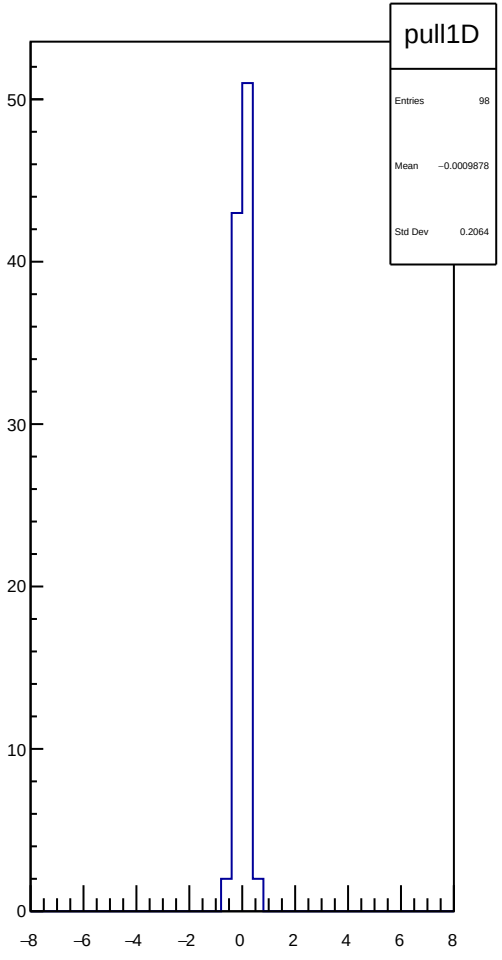

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 17.9 / 97
p0 1.294 ± 0.02808
pull
Entries 98
Mean 217.4
Std Dev 0

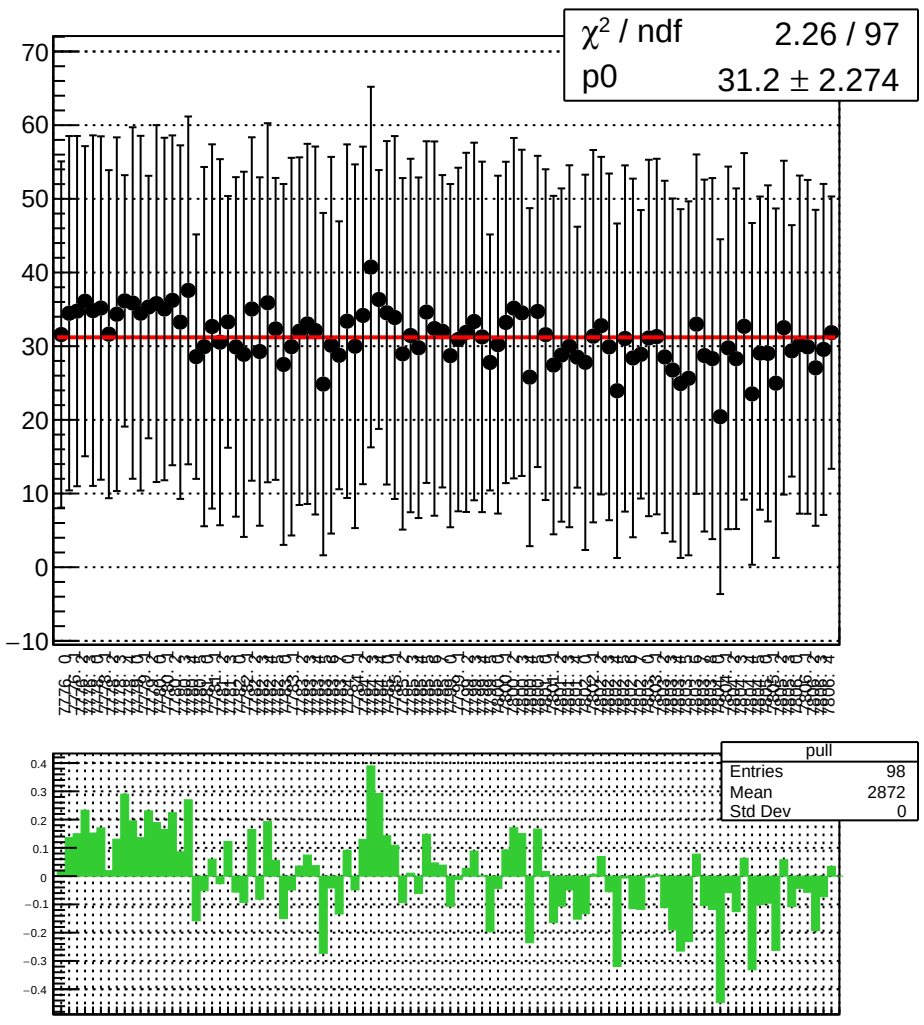

pull1D
Entries 98
Mean 0.01854
Std Dev 0.427

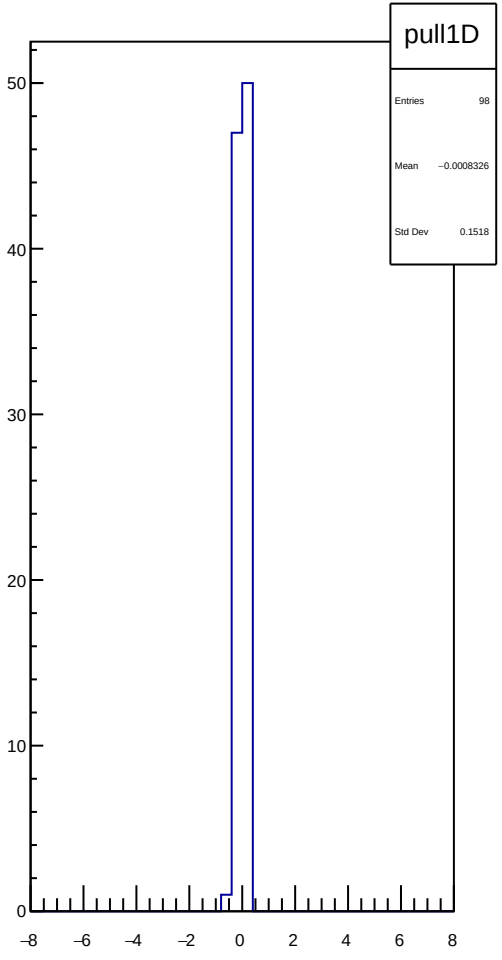

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 3.367 / 97
p0 −38.98 ± 1.955
−10
−20
−30
−40
−50
−60
−70
pull
Entries 98
Mean 1417
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 98
Mean 0.001331
Std Dev 0.1853
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

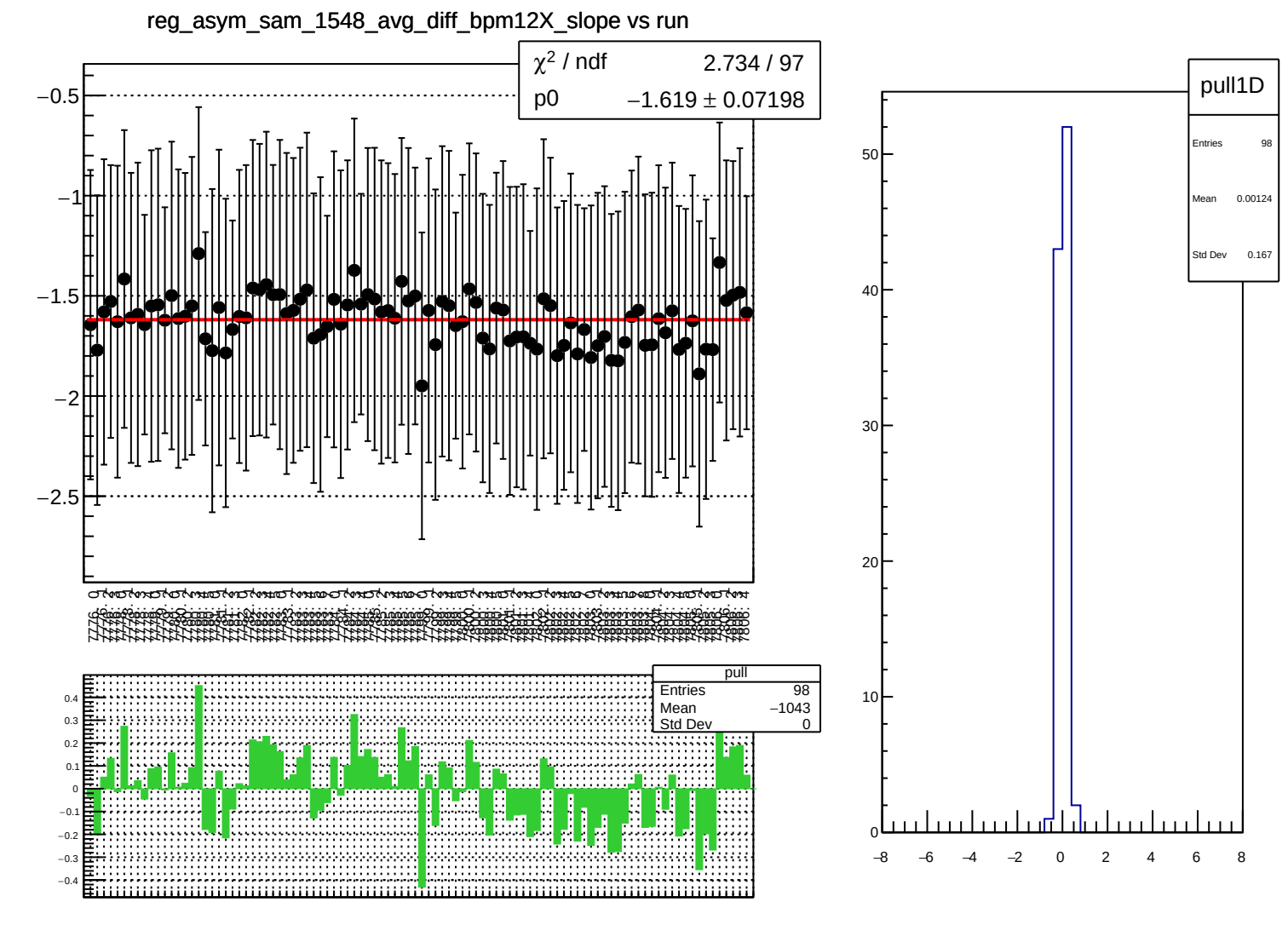

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.298 / 97
p0 47.85 ± 2.01
pull
Entries 98
Mean 2470
Std Dev 0
pull1D
Entries 98
Mean 0.001664
Std Dev 0.2094

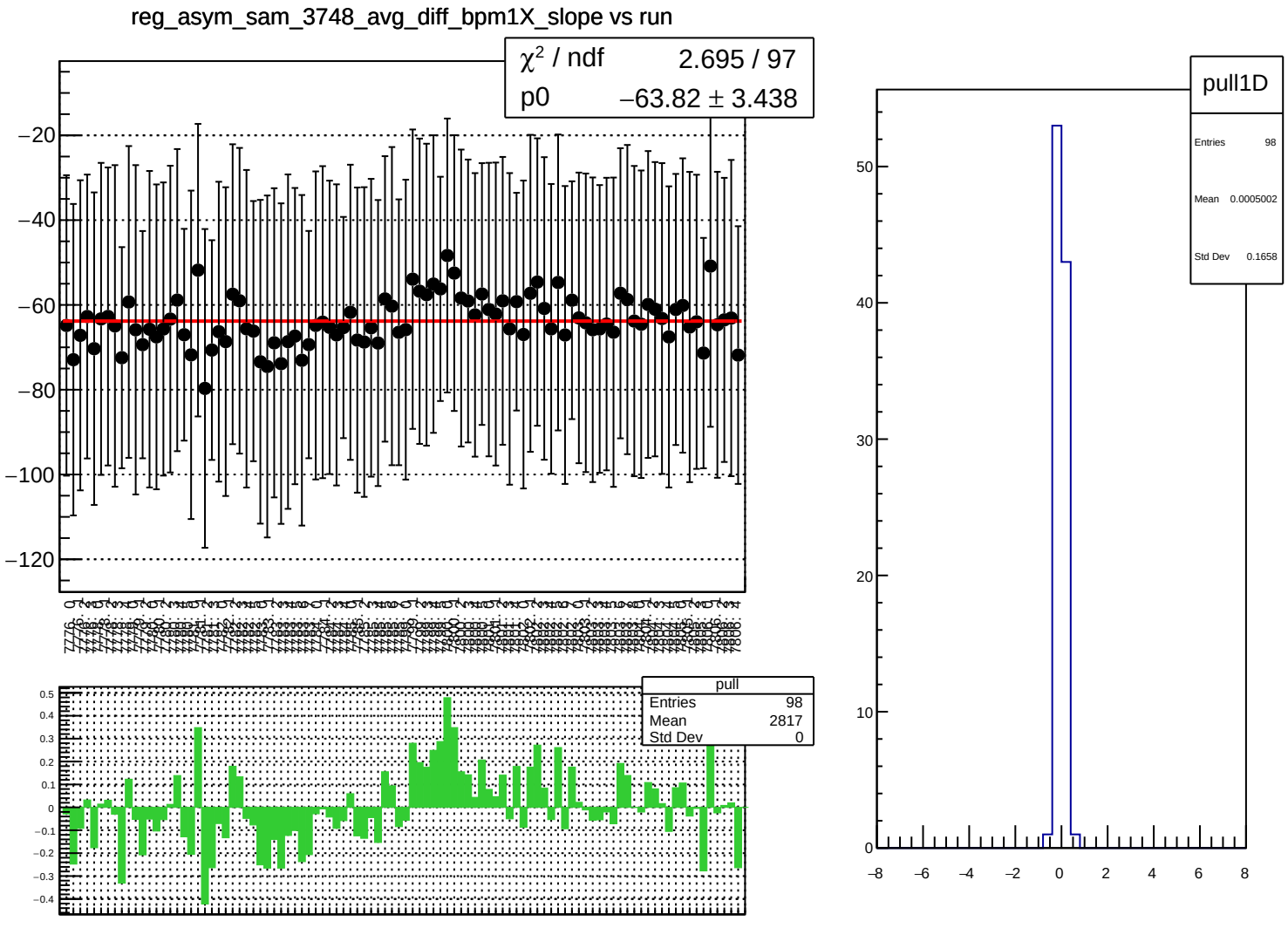

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.176 / 97
p0 −23.7 ± 1.7
0
−10
−20
−30
−40
−50
pull
Entries 98
Mean 2122
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

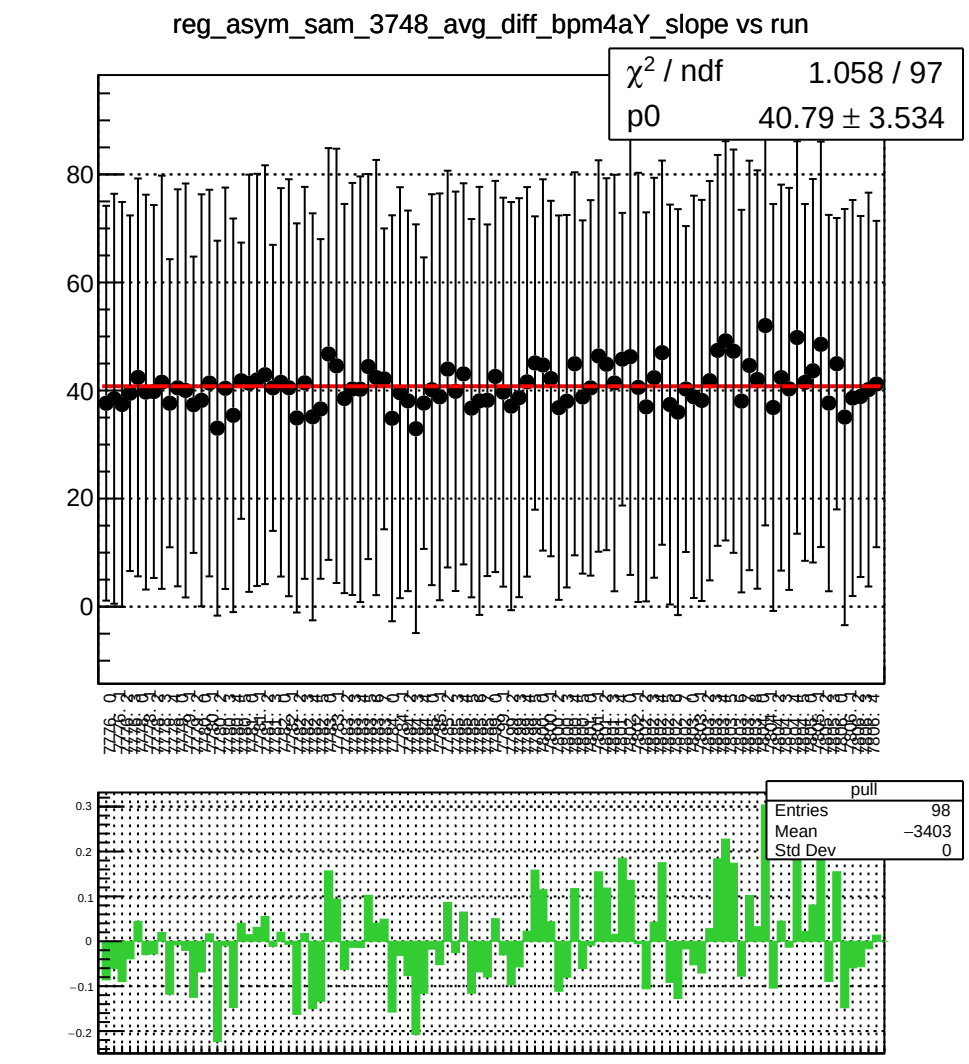

pull1D
Entries 98
Mean −0.0009878
Std Dev 0.2064
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

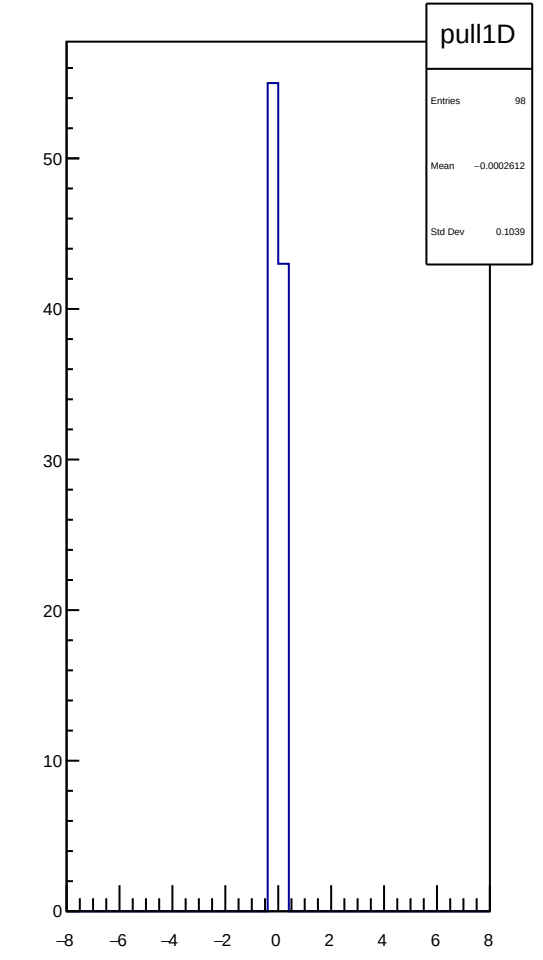

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.26 / 97
p0 31.2 ± 2.274
pull
Entries 98
Mean 2872
Std Dev 0

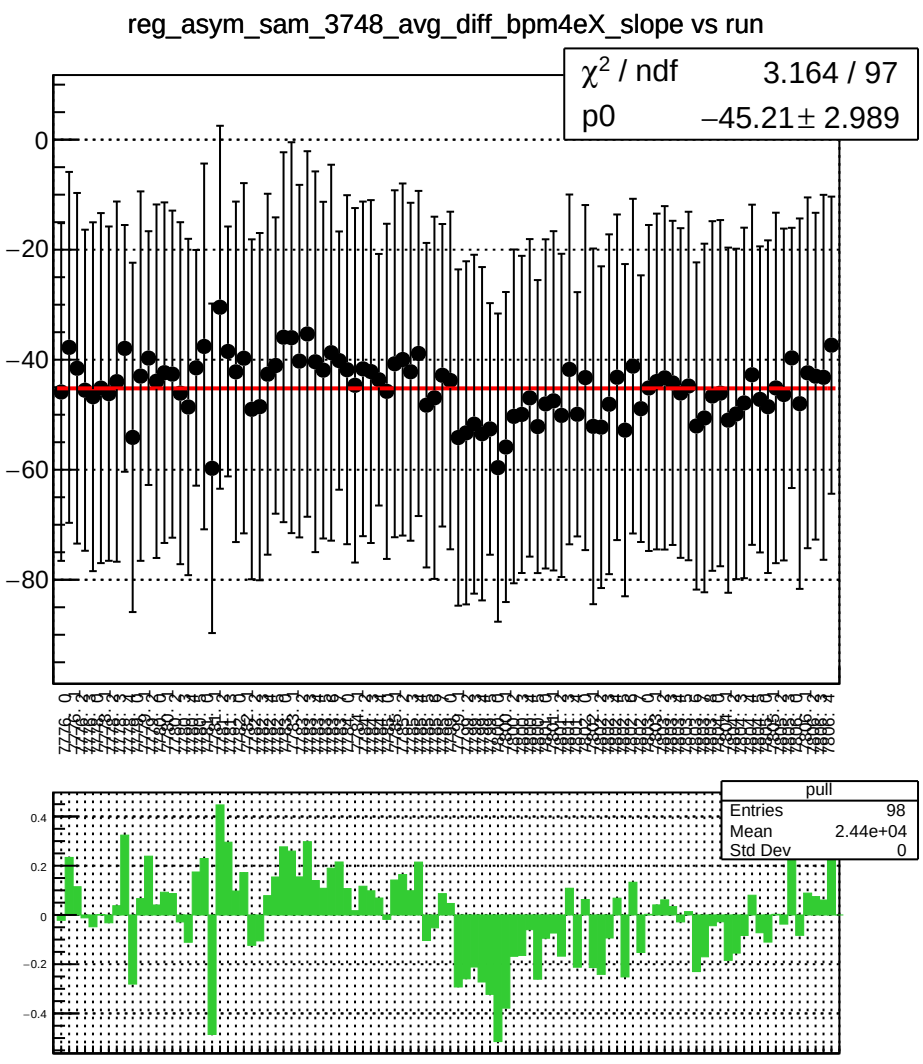

pull1D
Entries 98
Mean −0.0008326
Std Dev 0.1518

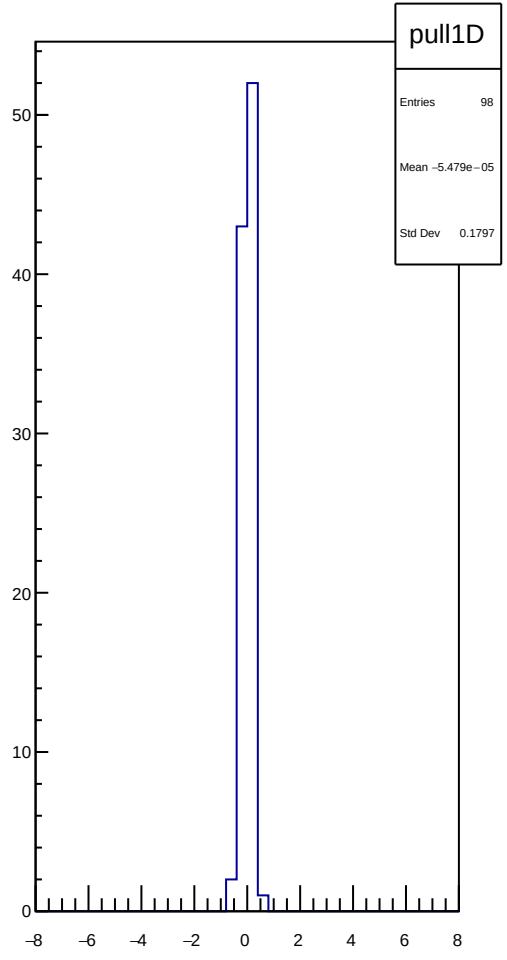

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 2.734 / 97
p0 −1.619 ± 0.07198
−0.5
−1
−1.5
−2
−2.5
pull
Entries 98
Mean −1043
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 98
Mean 0.00124
Std Dev 0.167
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

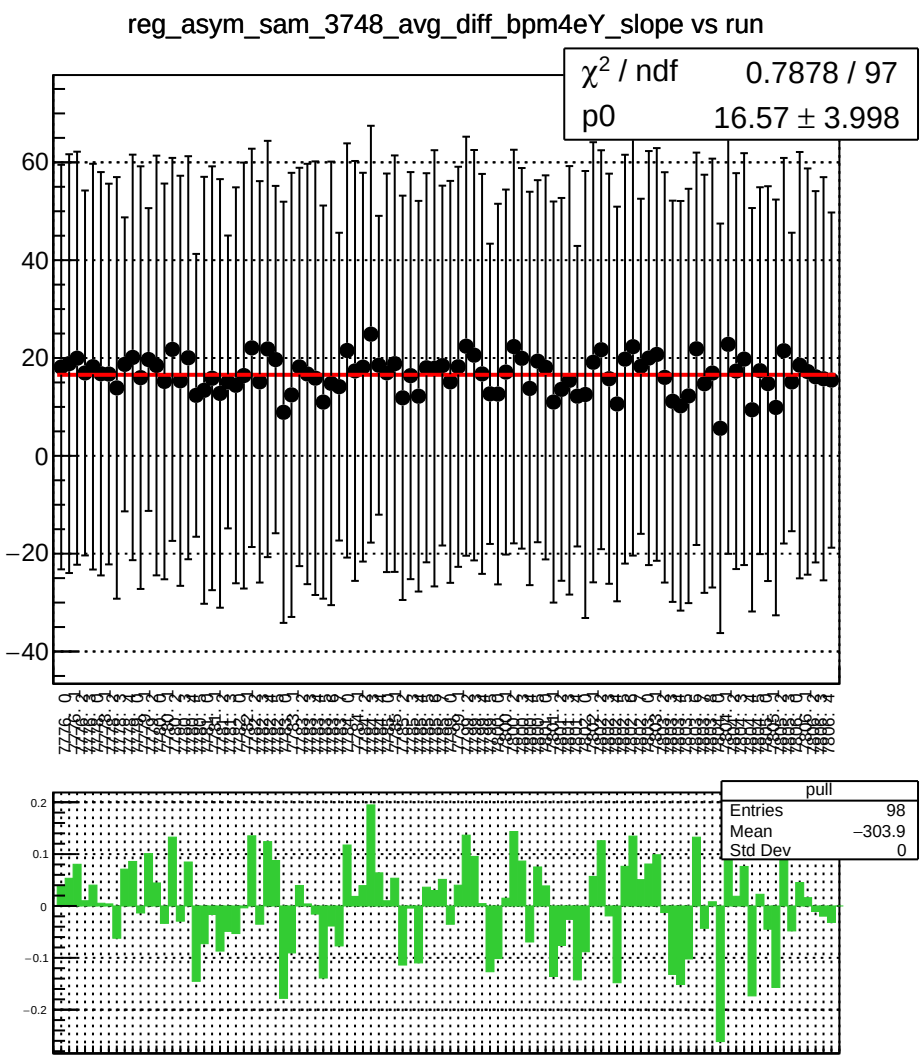

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 2.695 / 97
p0 −63.82 ± 3.438
−20
−40
−60
−80
−100
−120
pull
Entries 98
Mean 2817
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 98
Mean 0.0005002
Std Dev 0.1658
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

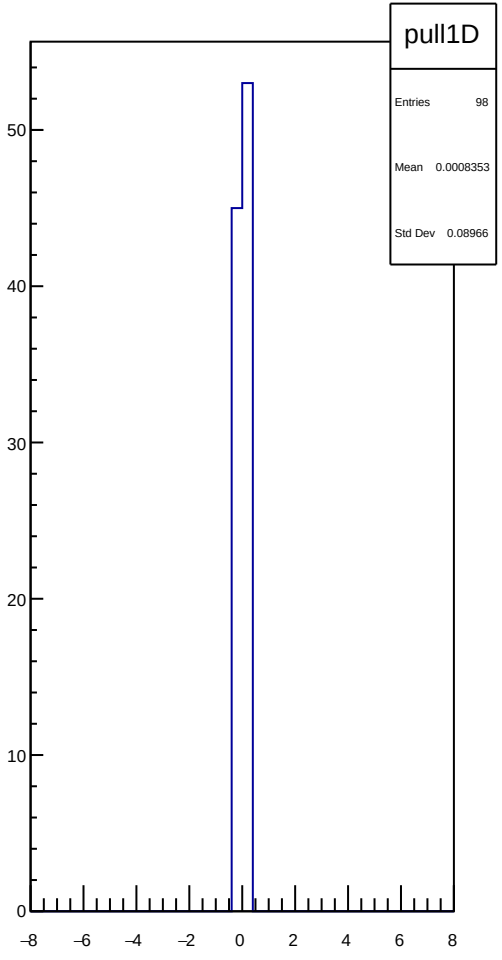

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.058 / 97
p0 40.79 ± 3.534
pull
Entries 98
Mean −3403
Std Dev 0

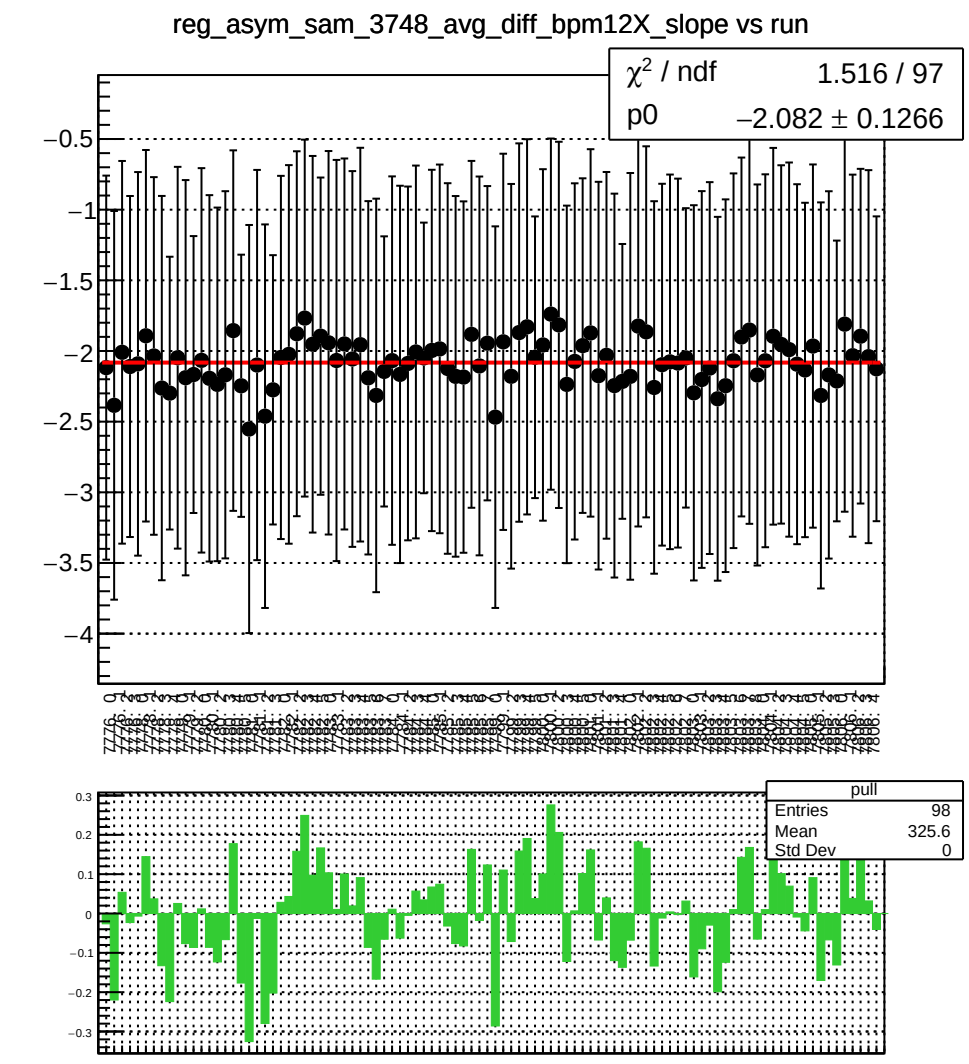

pull1D
Entries 98
Mean −0.0002612
Std Dev 0.1039

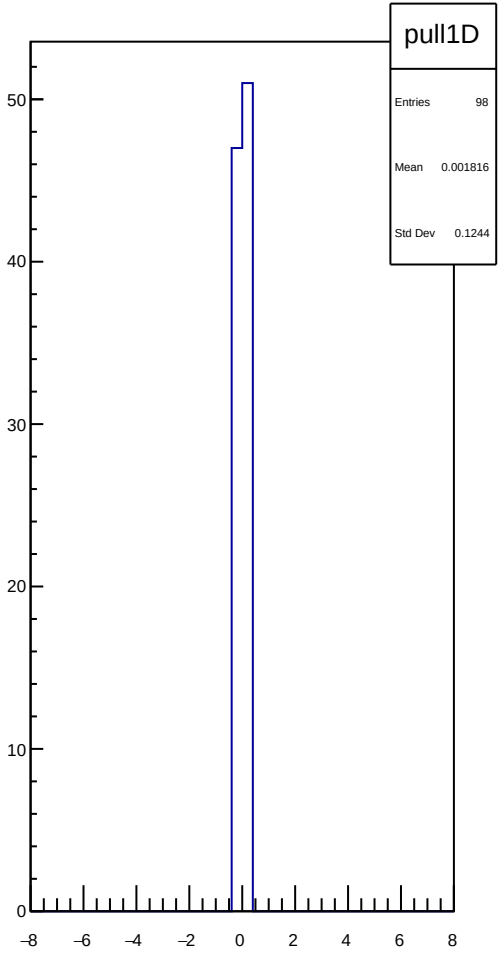

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.164 / 97
p0 −45.21 ± 2.989
0
−20
−40
−60
−80
pull
Entries 98
Mean 2.44e+04
Std Dev 0
0.4
0.2
0
−0.2
−0.4

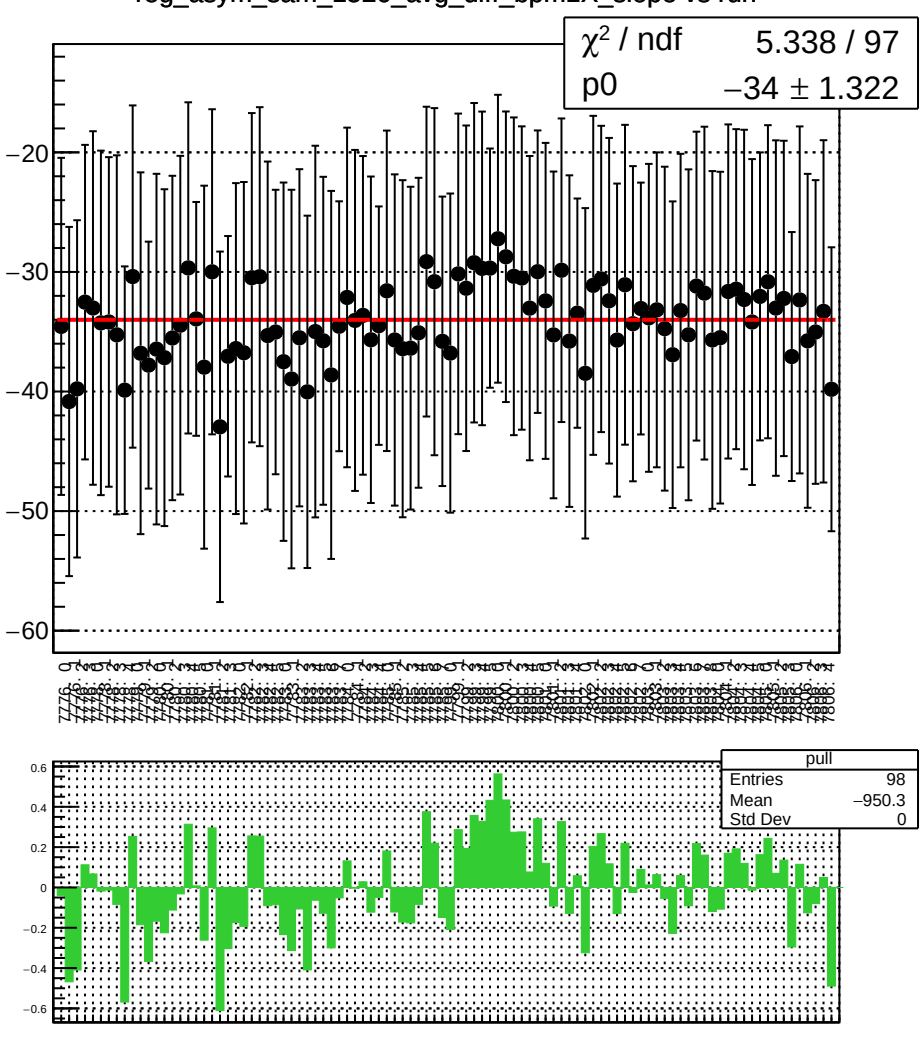

pull1D
Entries 98
Mean −5.479e−05
Std Dev 0.1797
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

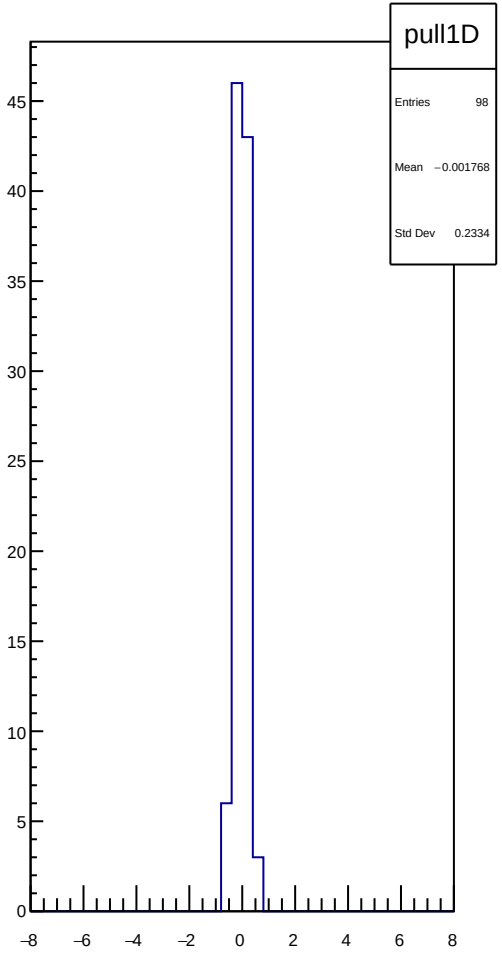

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.7878 / 97
p0 16.57 ± 3.998
60
40
20
0
−20
−40
pull
Entries 98
Mean −303.9
Std Dev 0
0.2
0.1
0
−0.1
−0.2

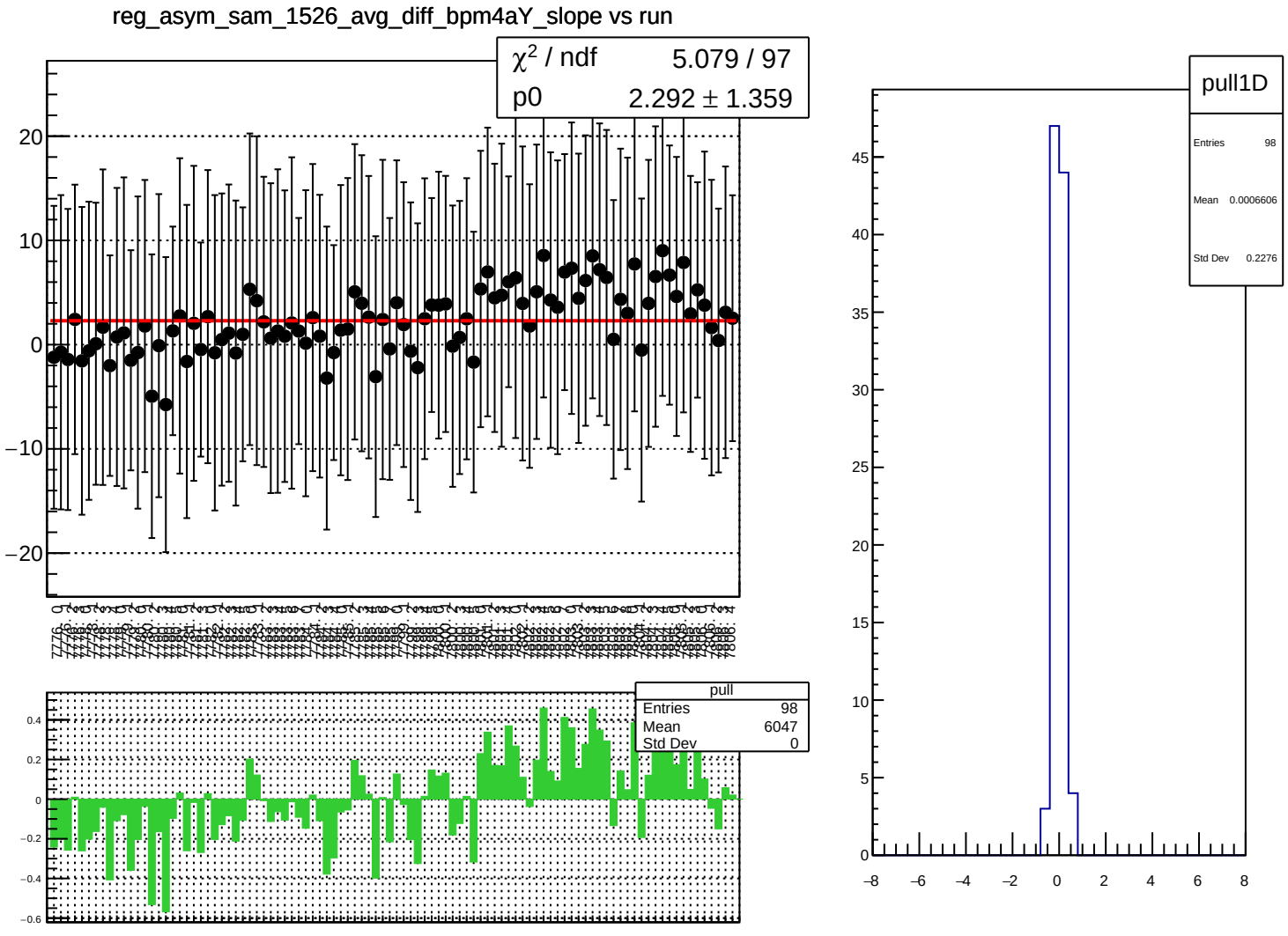

pull1D
Entries 98
Mean 0.0008353
Std Dev 0.08966
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

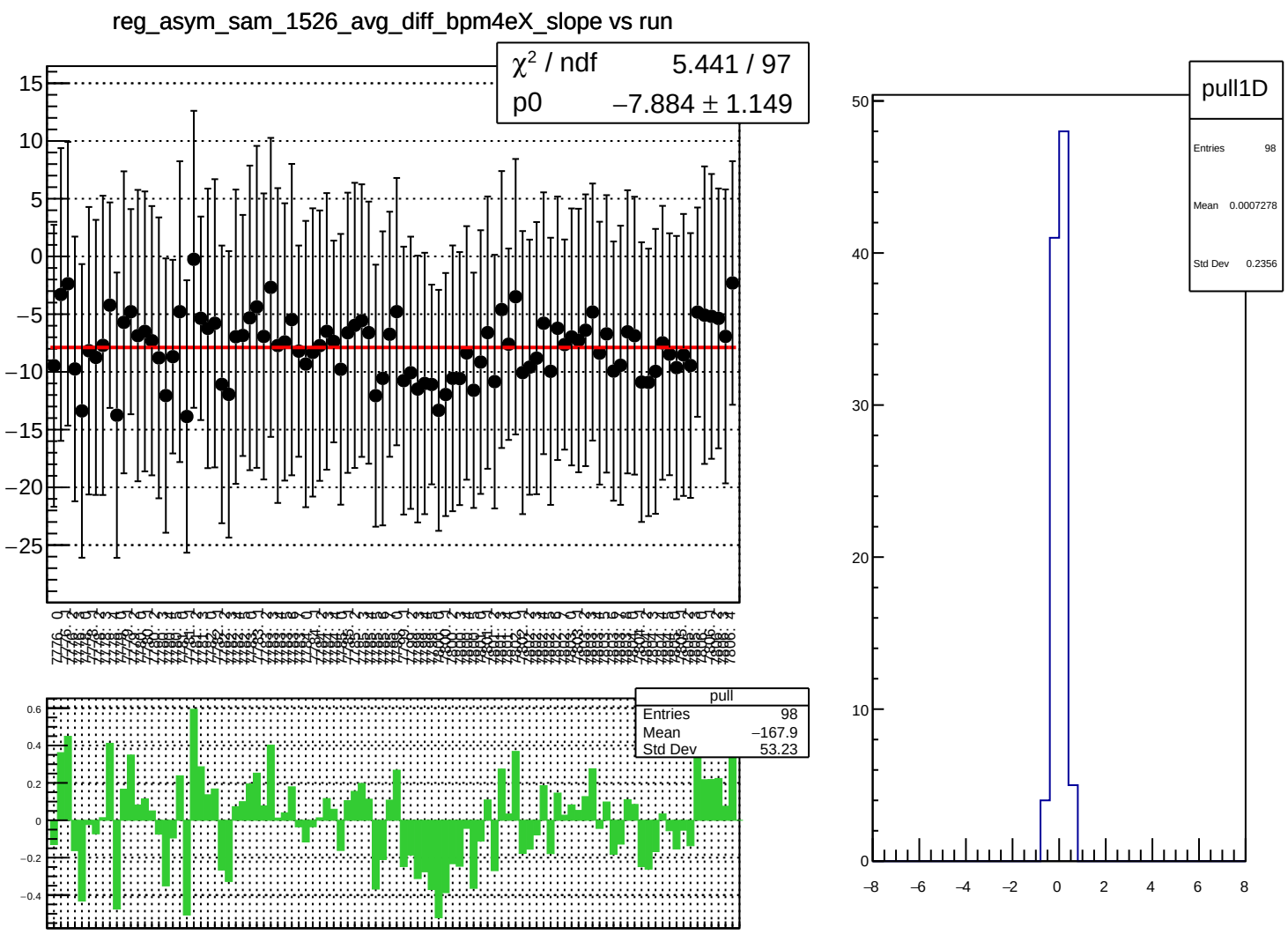

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 1.516 / 97
p0 −2.082 ± 0.1266
pull
Entries 98
Mean 325.6
Std Dev 0

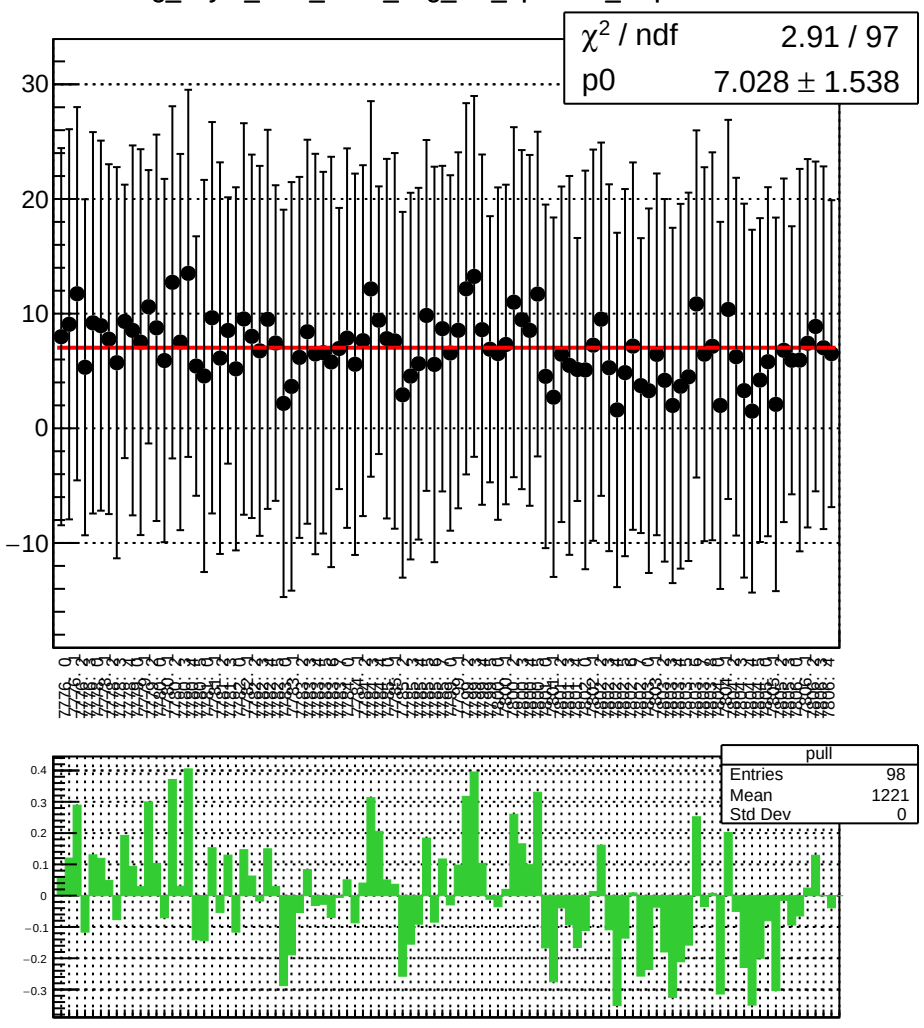

pull1D
Entries 98
Mean 0.001816
Std Dev 0.1244

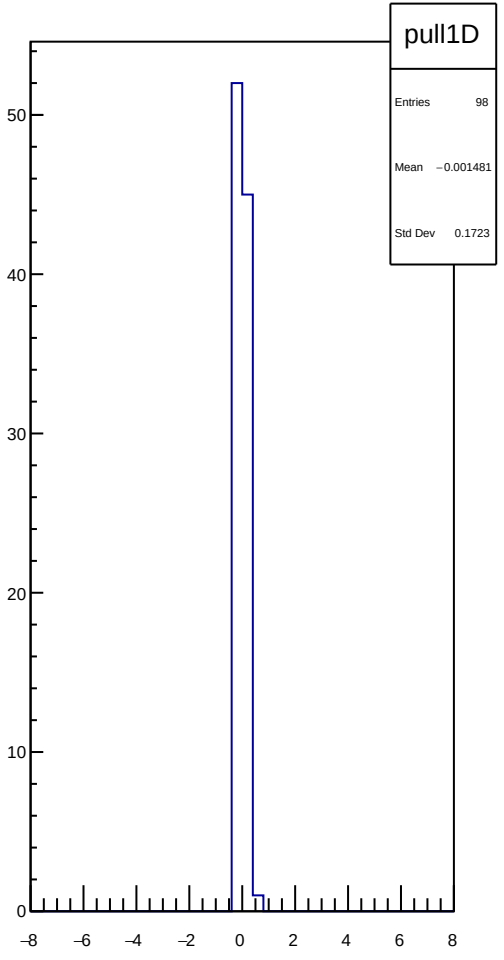

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 5.338 / 97
p0 −34 ± 1.322
−20
−30
−40
−50
−60
pull
Entries 98
Mean −950.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

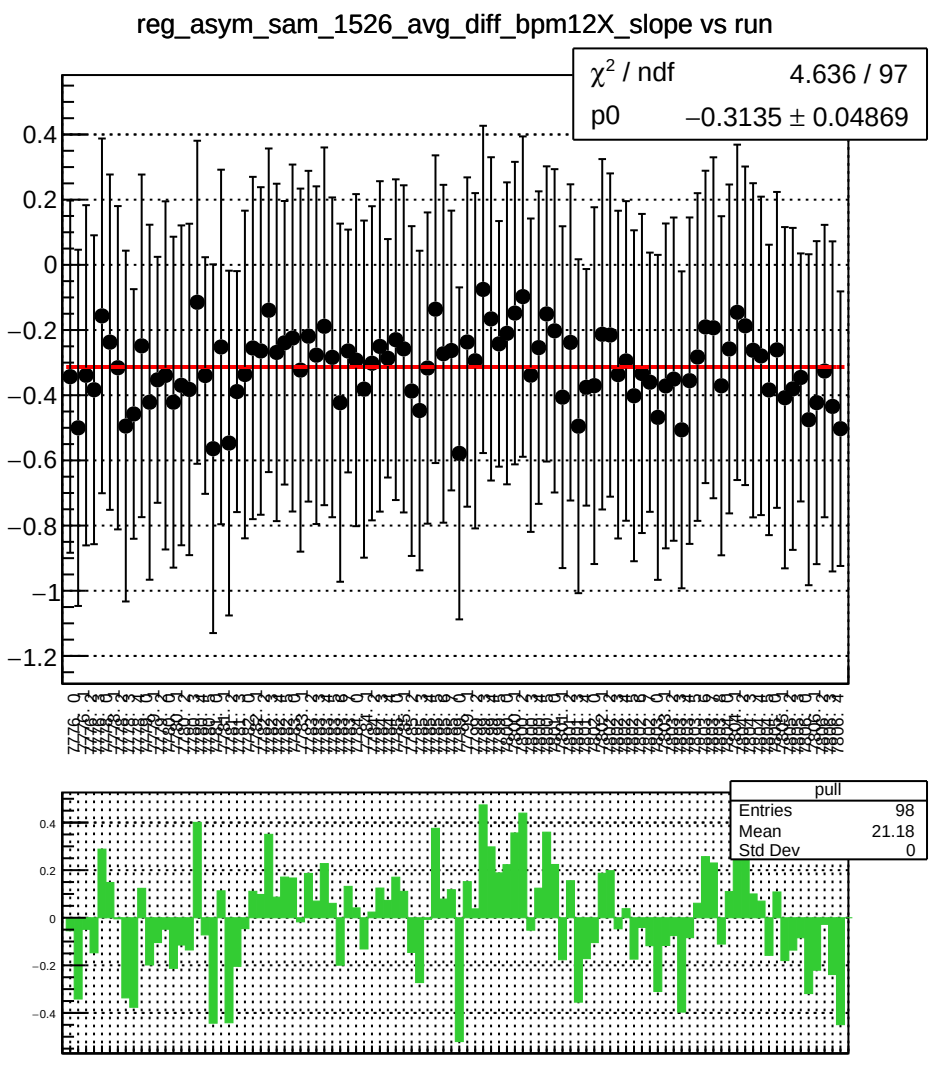

pull1D
Entries 98
Mean −0.001768
Std Dev 0.2334
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

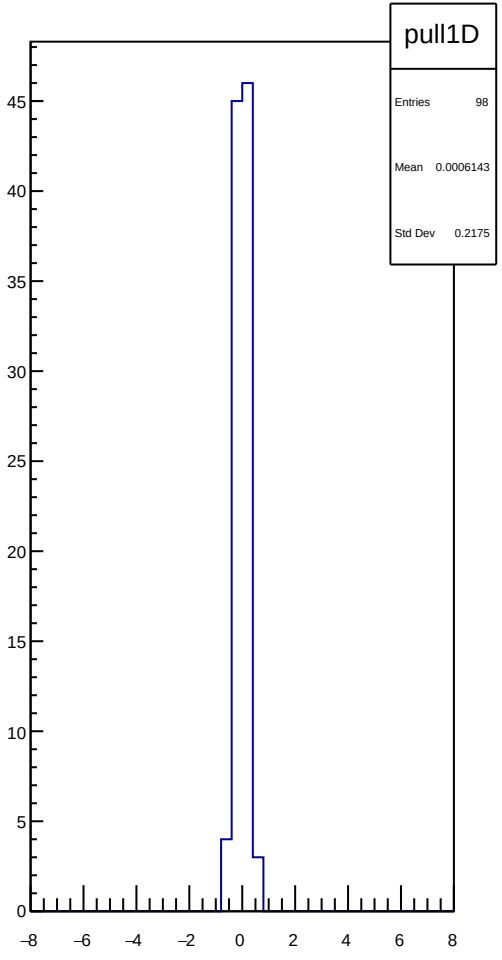

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.079 / 97
p0 2.292 ± 1.359
pull
Entries 98
Mean 6047
Std Dev 0
pull1D
Entries 98
Mean 0.0006606
Std Dev 0.2276

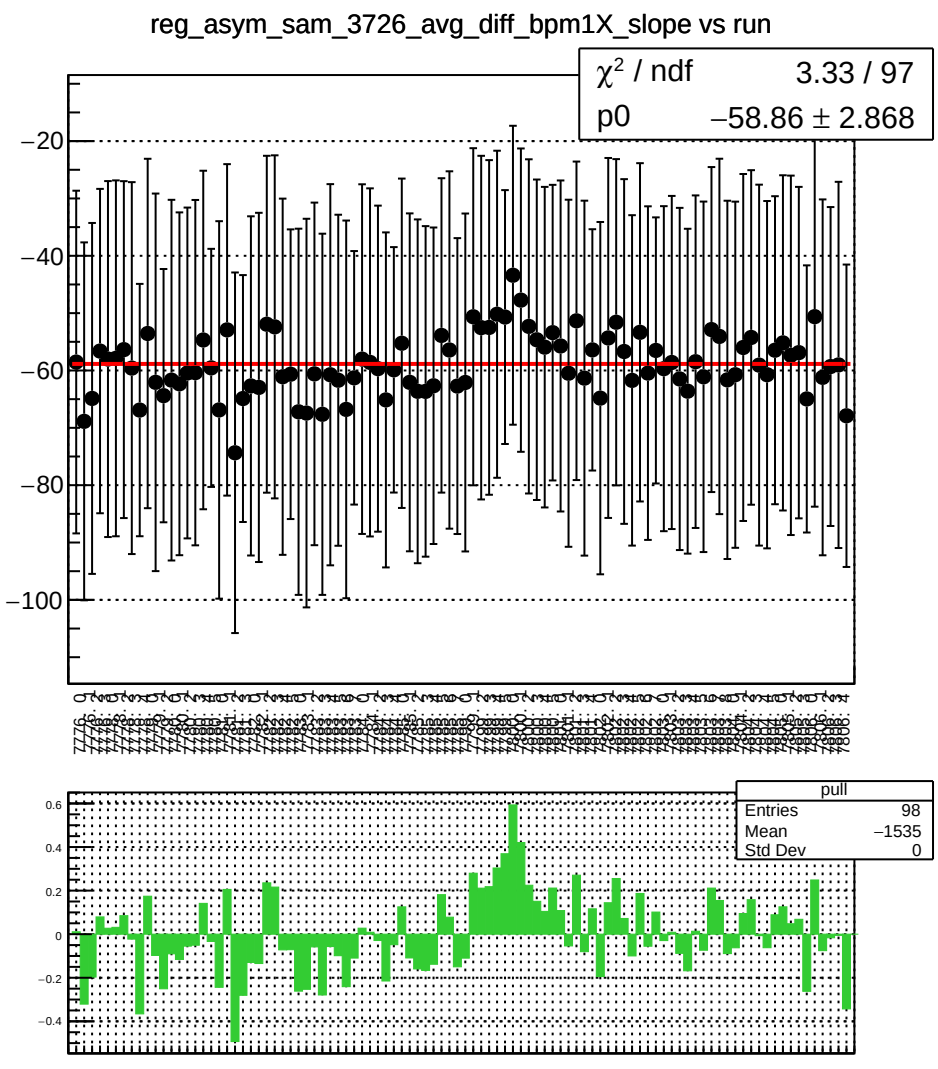

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.441 / 97
p0 −7.884 ± 1.149
pull
Entries 98
Mean −167.9
Std Dev 53.23
pull1D
Entries 98
Mean 0.0007278
Std Dev 0.2356

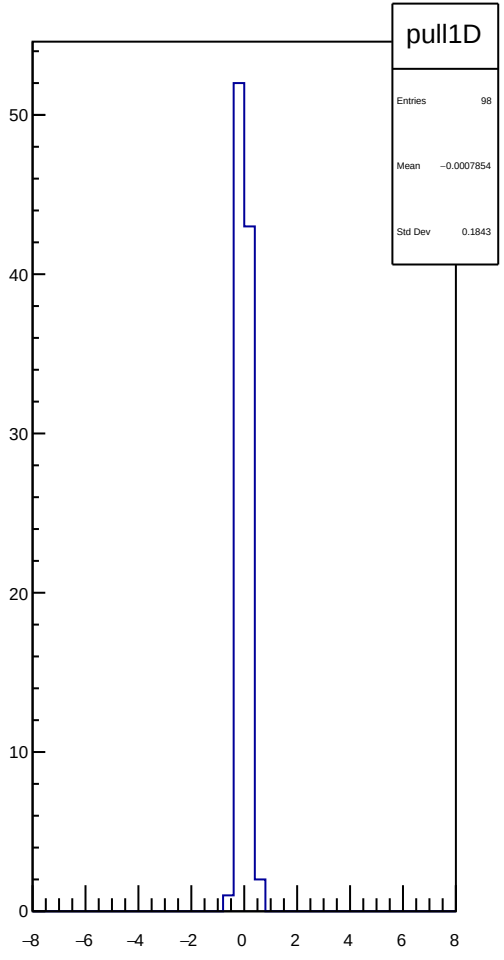

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.91 / 97
p0 7.028 ± 1.538
pull
Entries 98
Mean 1221
Std Dev 0

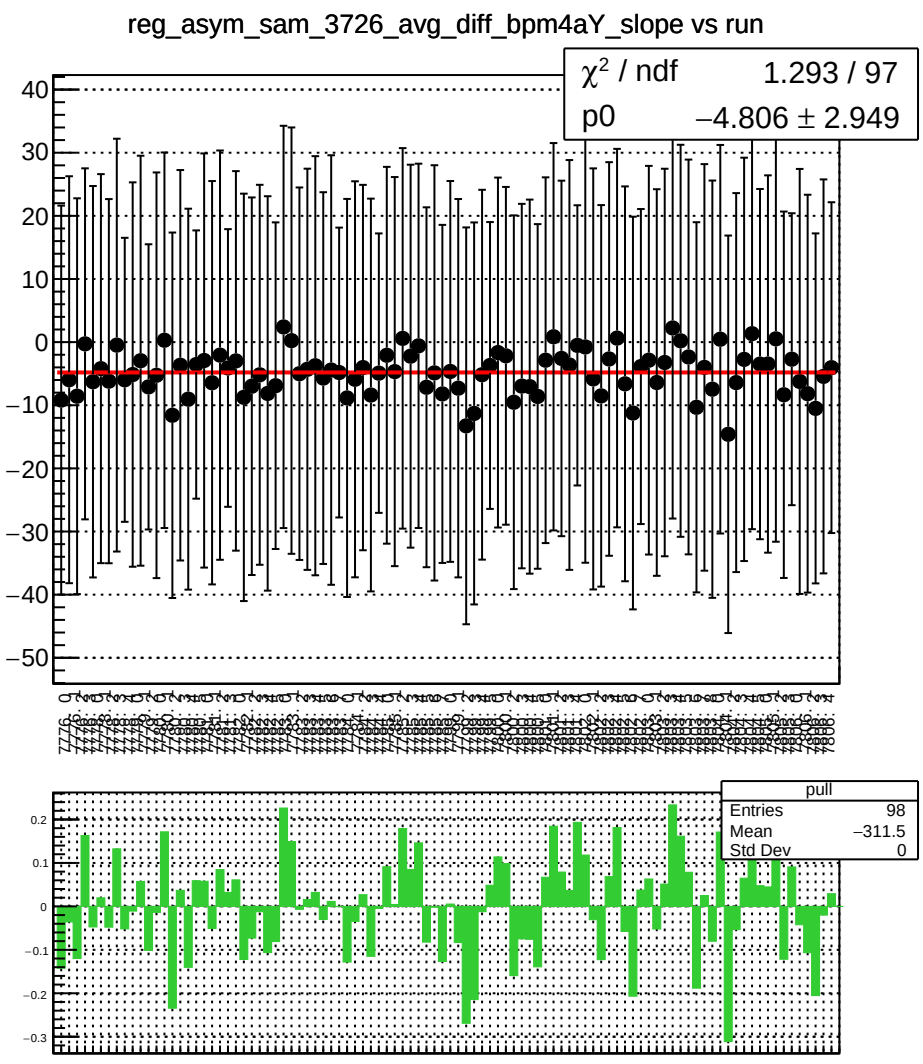

pull1D
Entries 98
Mean −0.001481
Std Dev 0.1723

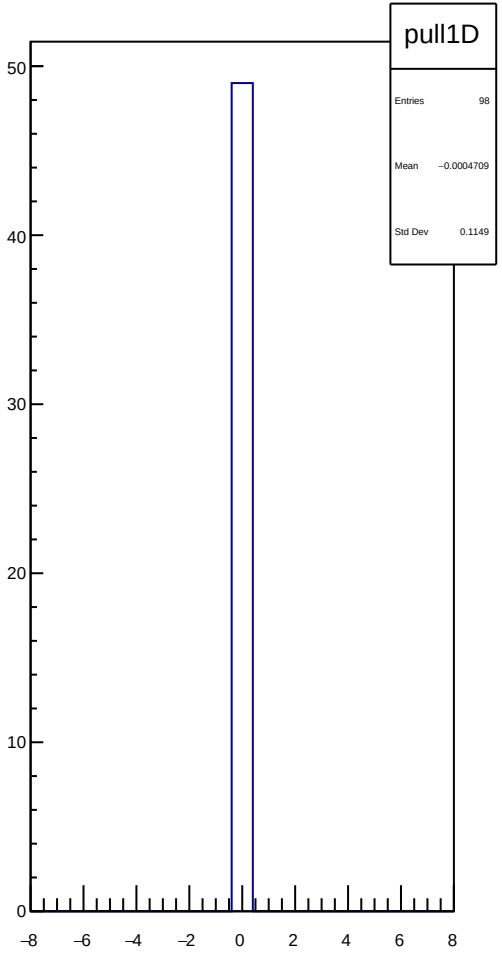

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 4.636 / 97
p0 −0.3135 ± 0.04869
pull
Entries 98
Mean 21.18
Std Dev 0

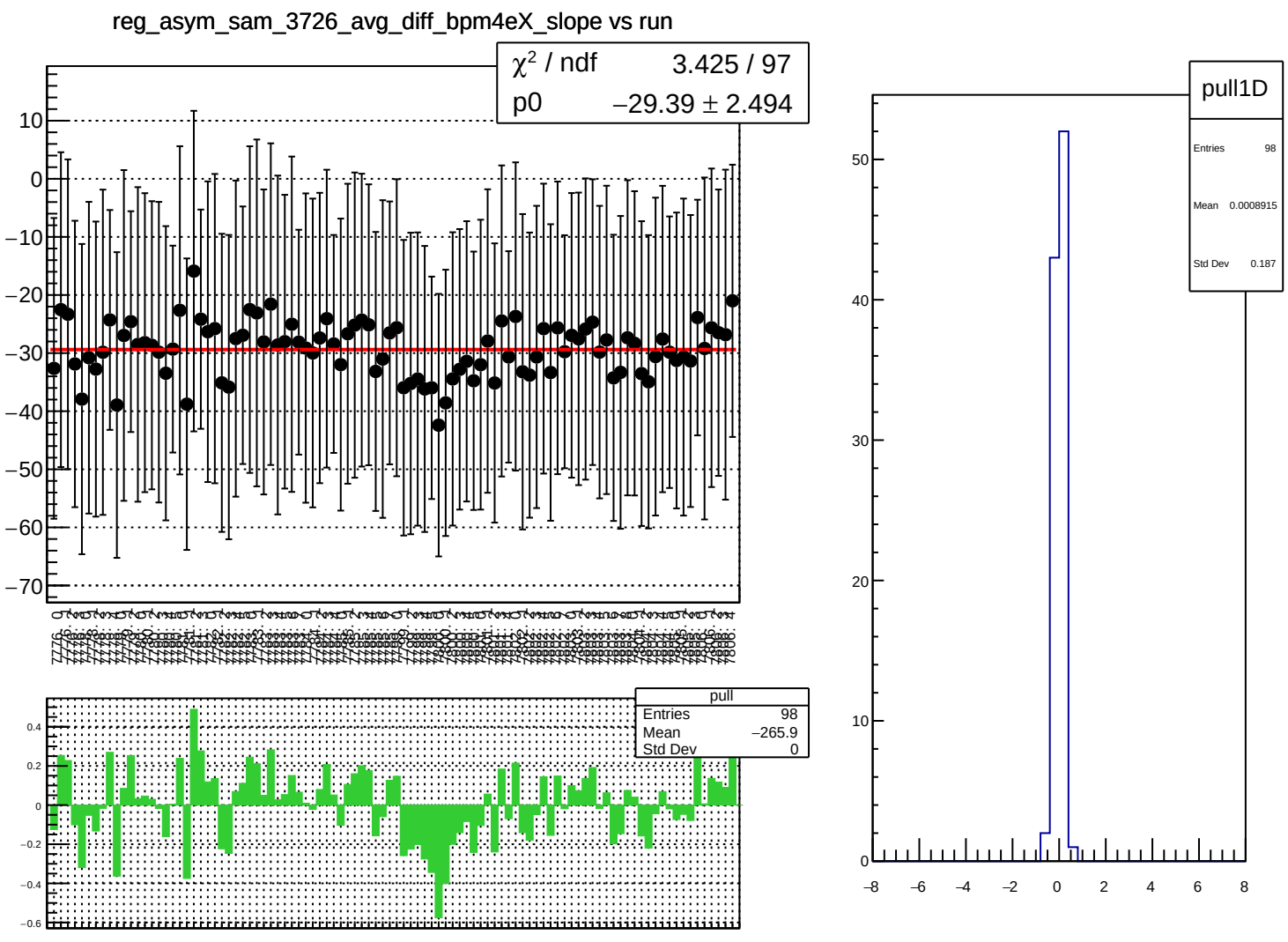

pull1D
Entries 98
Mean 0.0006143
Std Dev 0.2175

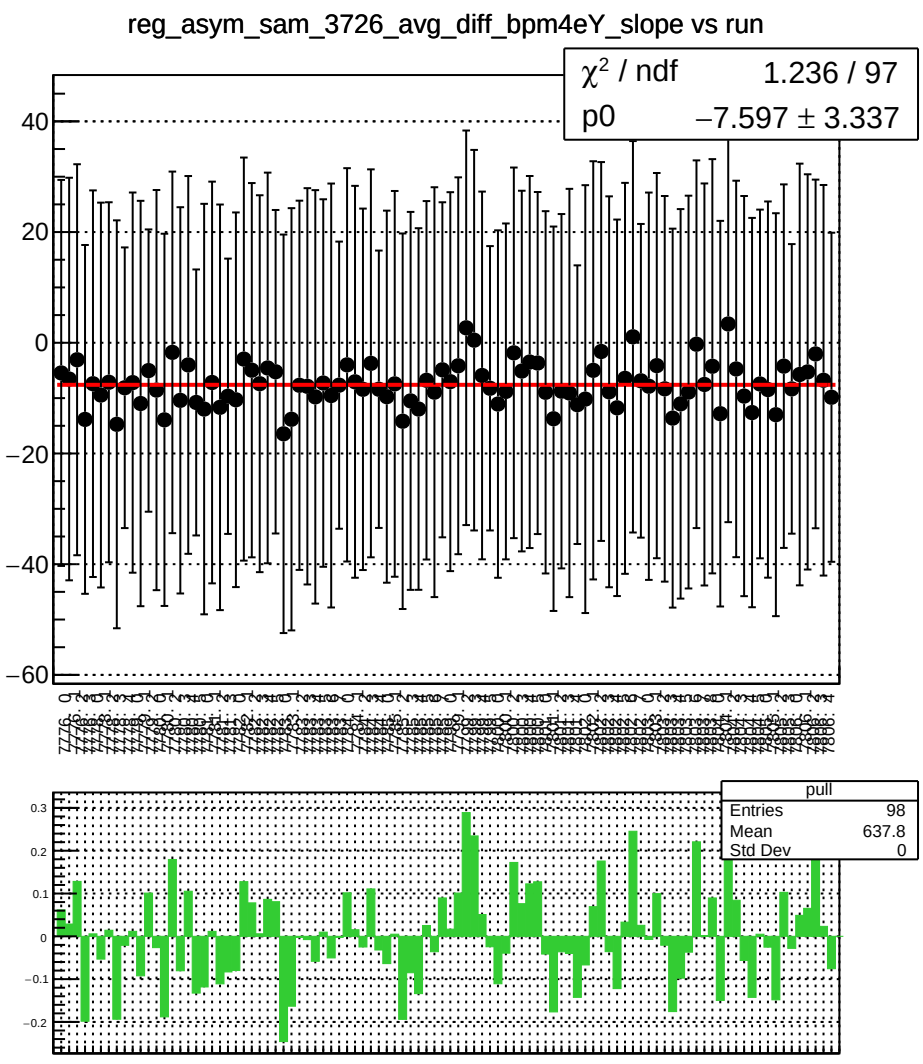

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 3.33 / 97
p0 −58.86 ± 2.868
−20
−40
−60
−80
−100
pull
Entries 98
Mean −1535
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

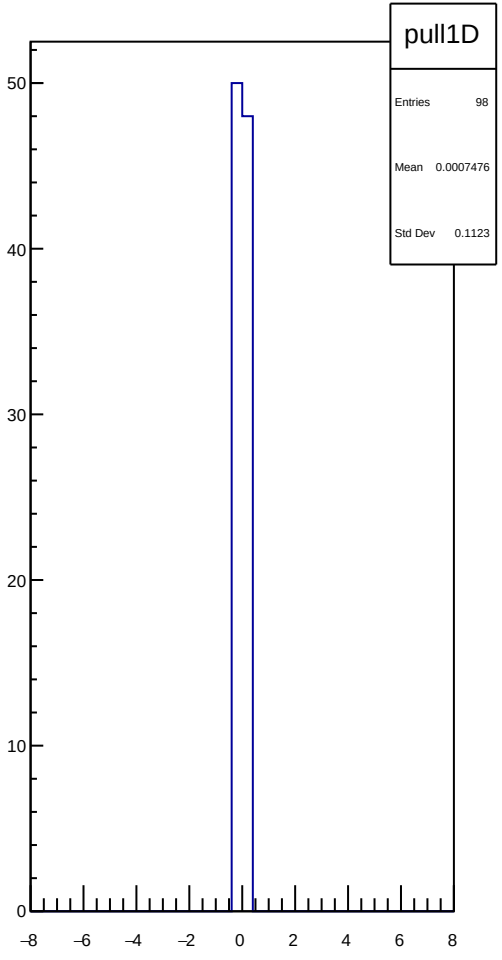

pull1D
Entries 98
Mean −0.0007854
Std Dev 0.1843
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

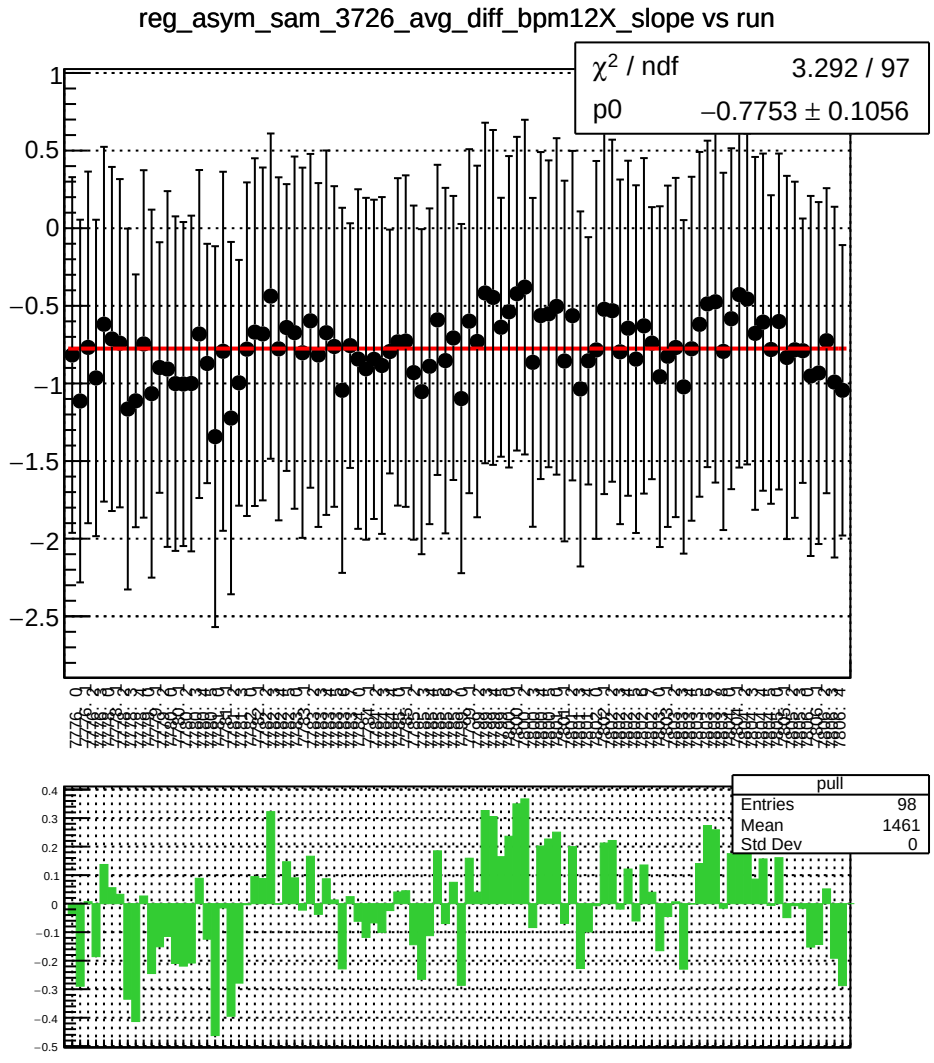

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.293 / 97
p0 −4.806 ± 2.949
pull
Entries 98
Mean −311.5
Std Dev 0

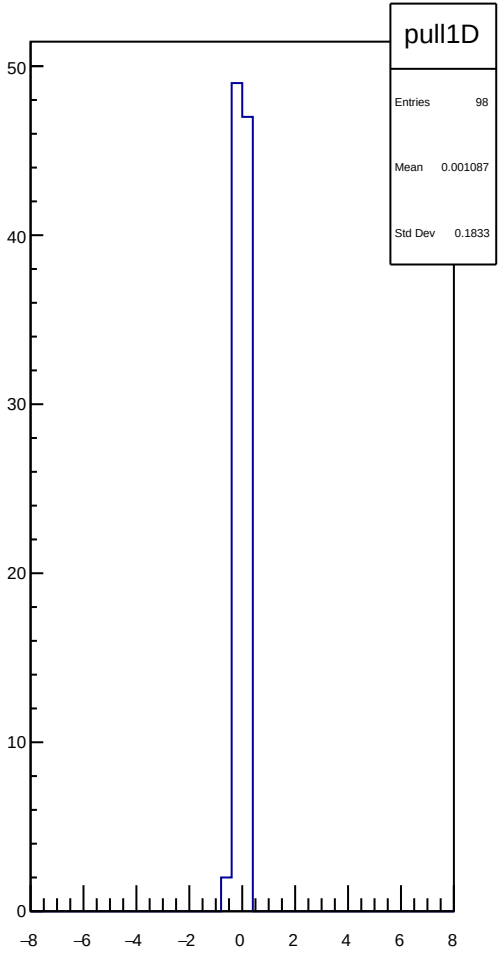

pull1D
Entries 98
Mean −0.0004709
Std Dev 0.1149

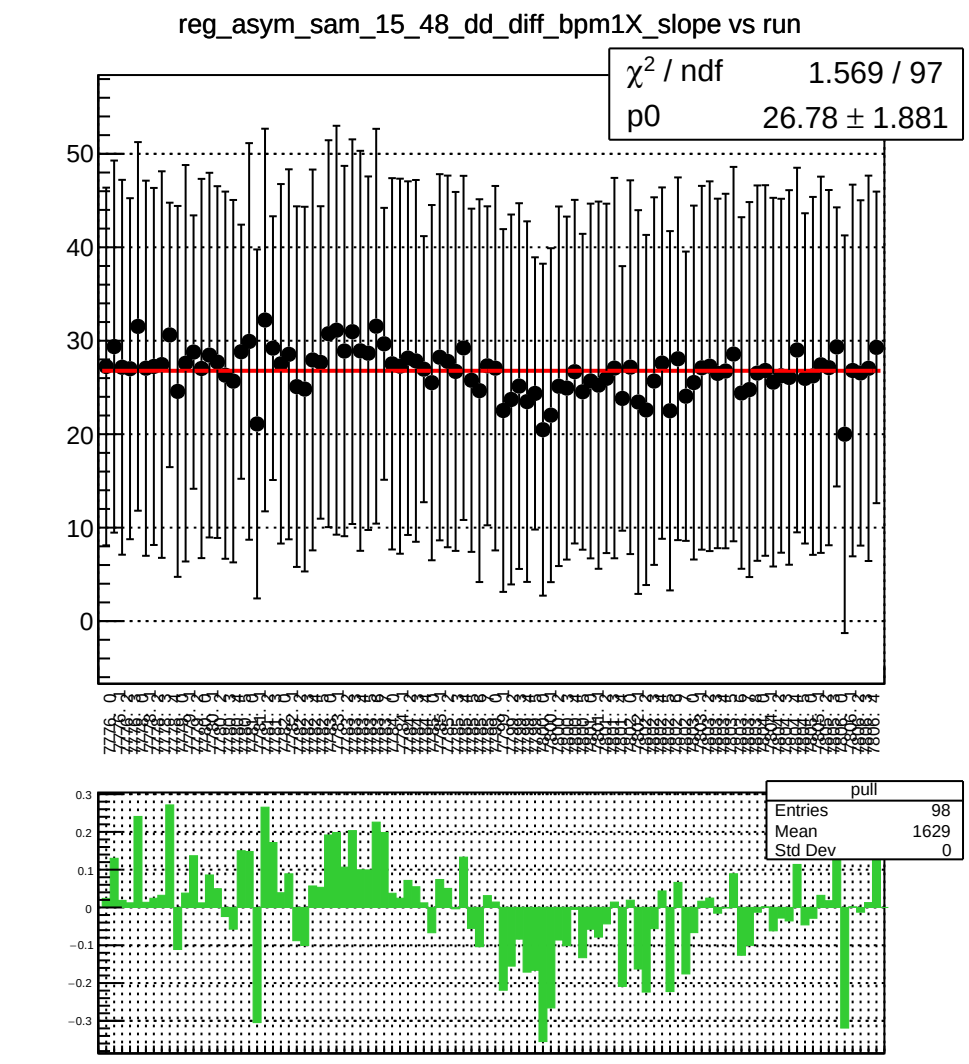

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.425 / 97
p0 −29.39 ± 2.494
pull
Entries 98
Mean −265.9
Std Dev 0
pull1D
Entries 98
Mean 0.0008915
Std Dev 0.187

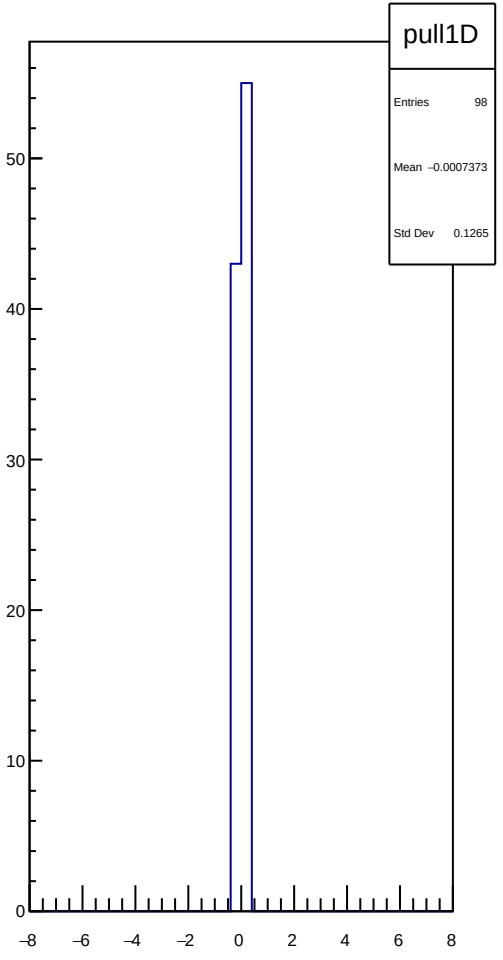

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.236 / 97
p0 −7.597 ± 3.337
pull
Entries 98
Mean 637.8
Std Dev 0

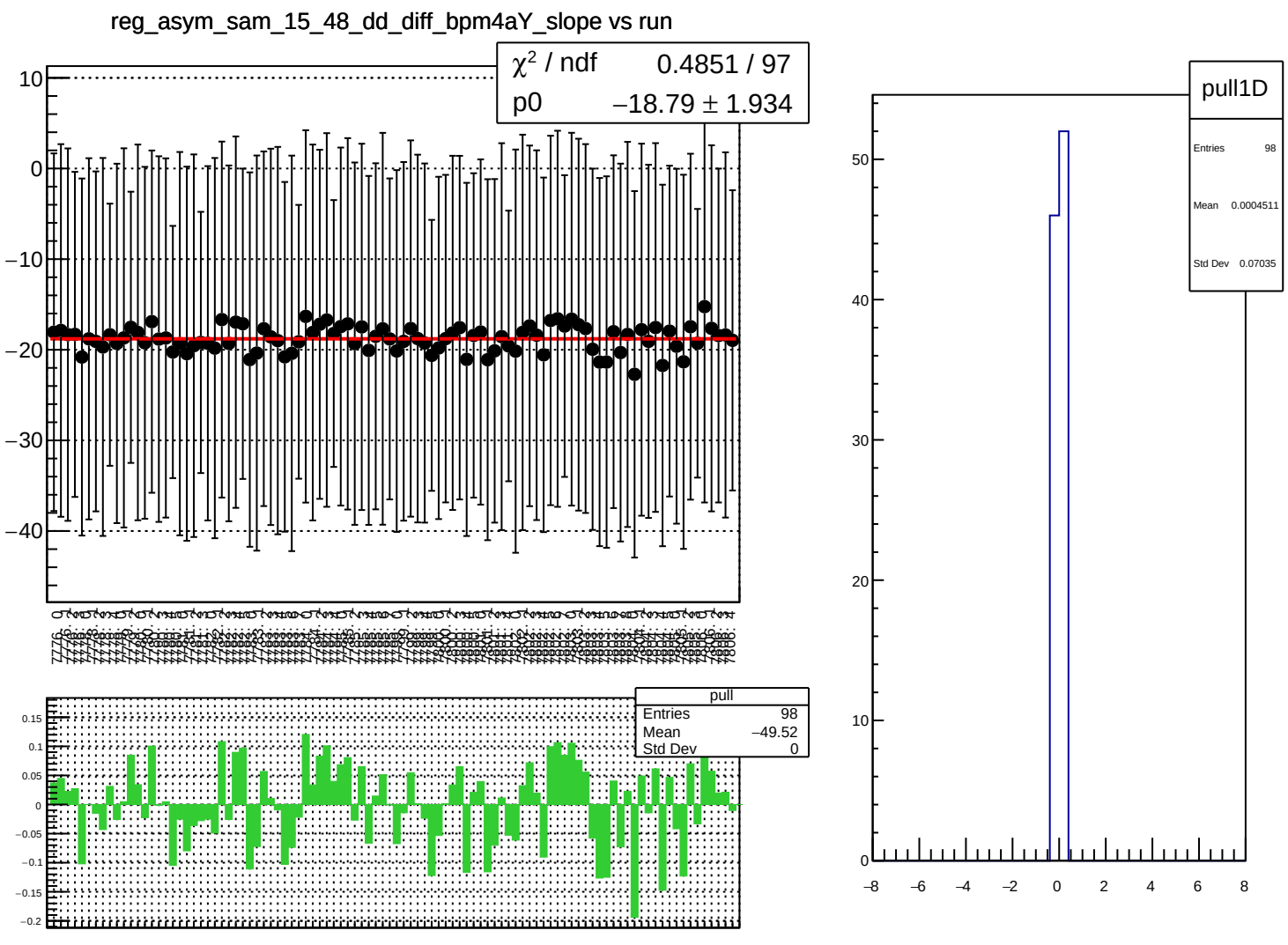

pull1D
Entries 98
Mean 0.0007476
Std Dev 0.1123

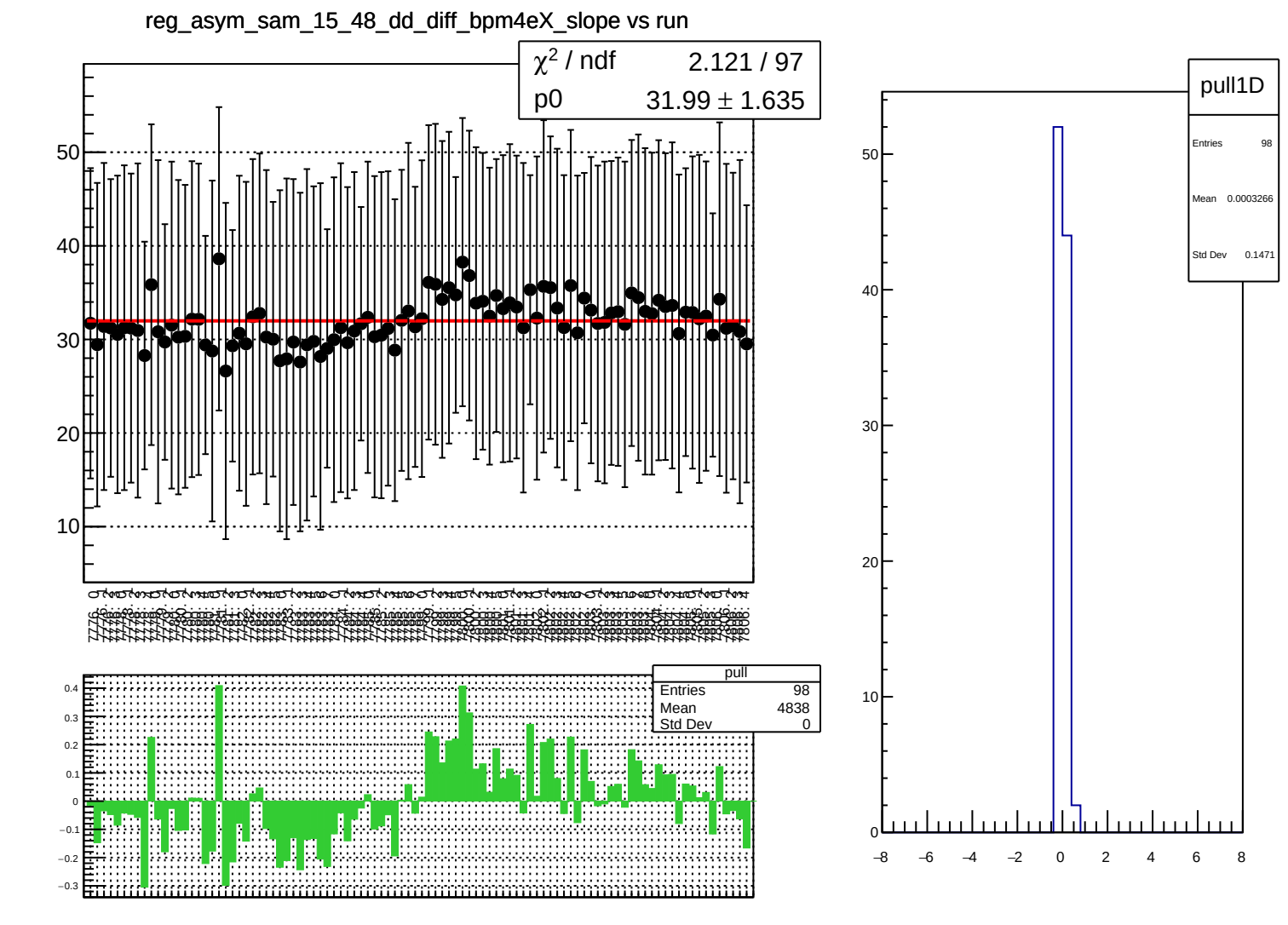

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 3.292 / 97
p0 −0.7753 ± 0.1056
pull
Entries 98
Mean 1461
Std Dev 0

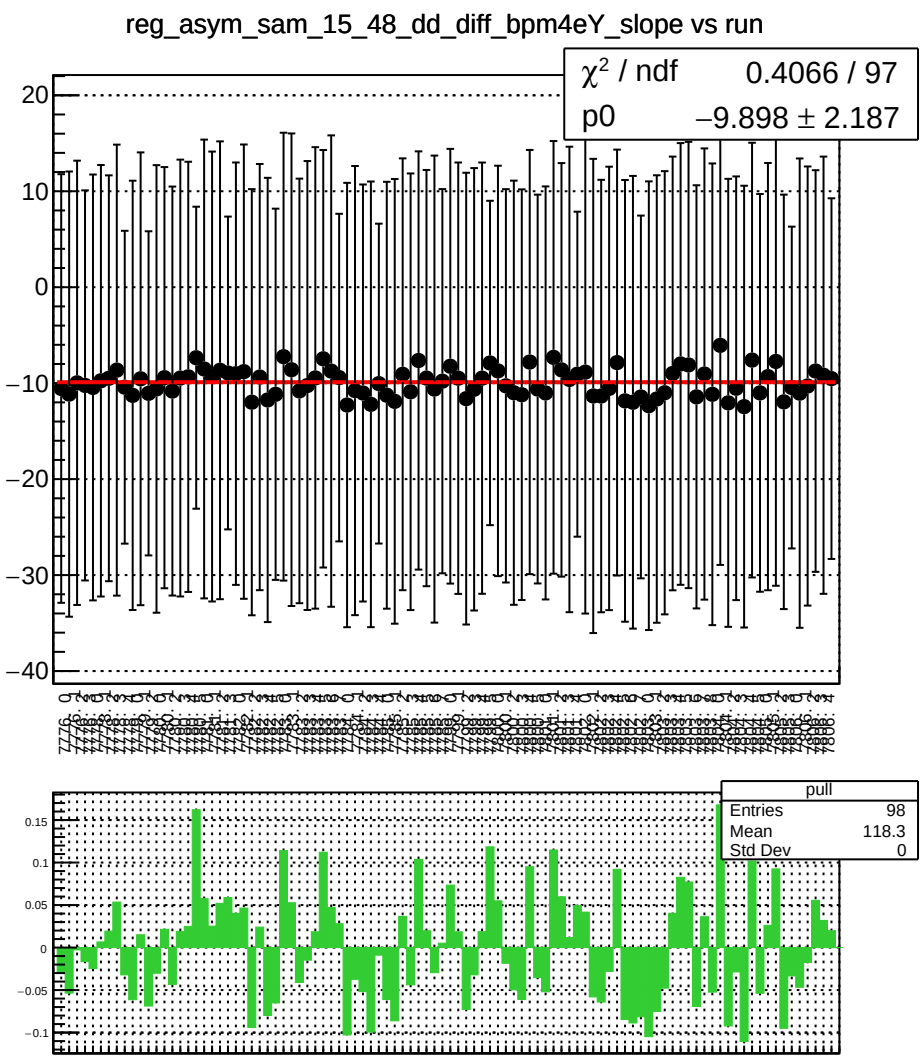

pull1D
Entries 98
Mean 0.001087
Std Dev 0.1833

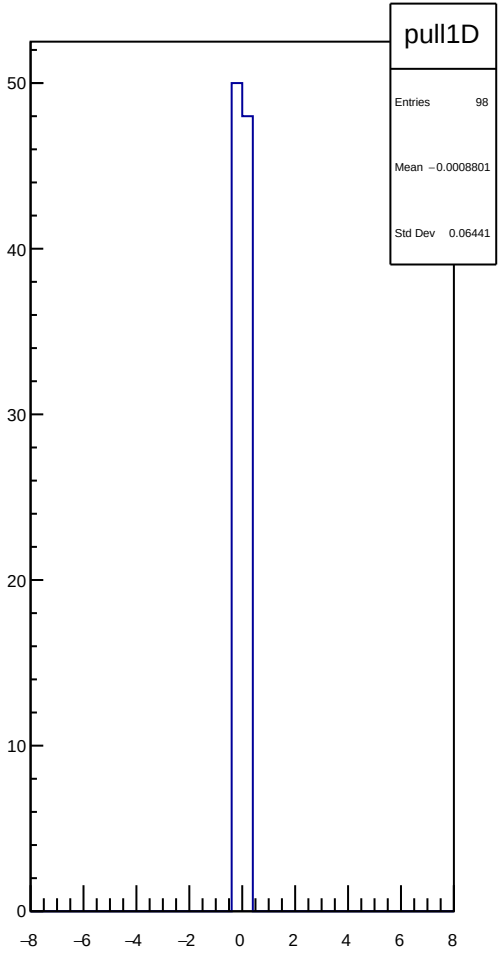

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.569 / 97
p0 26.78 ± 1.881
pull
Entries 98
Mean 1629
Std Dev 0

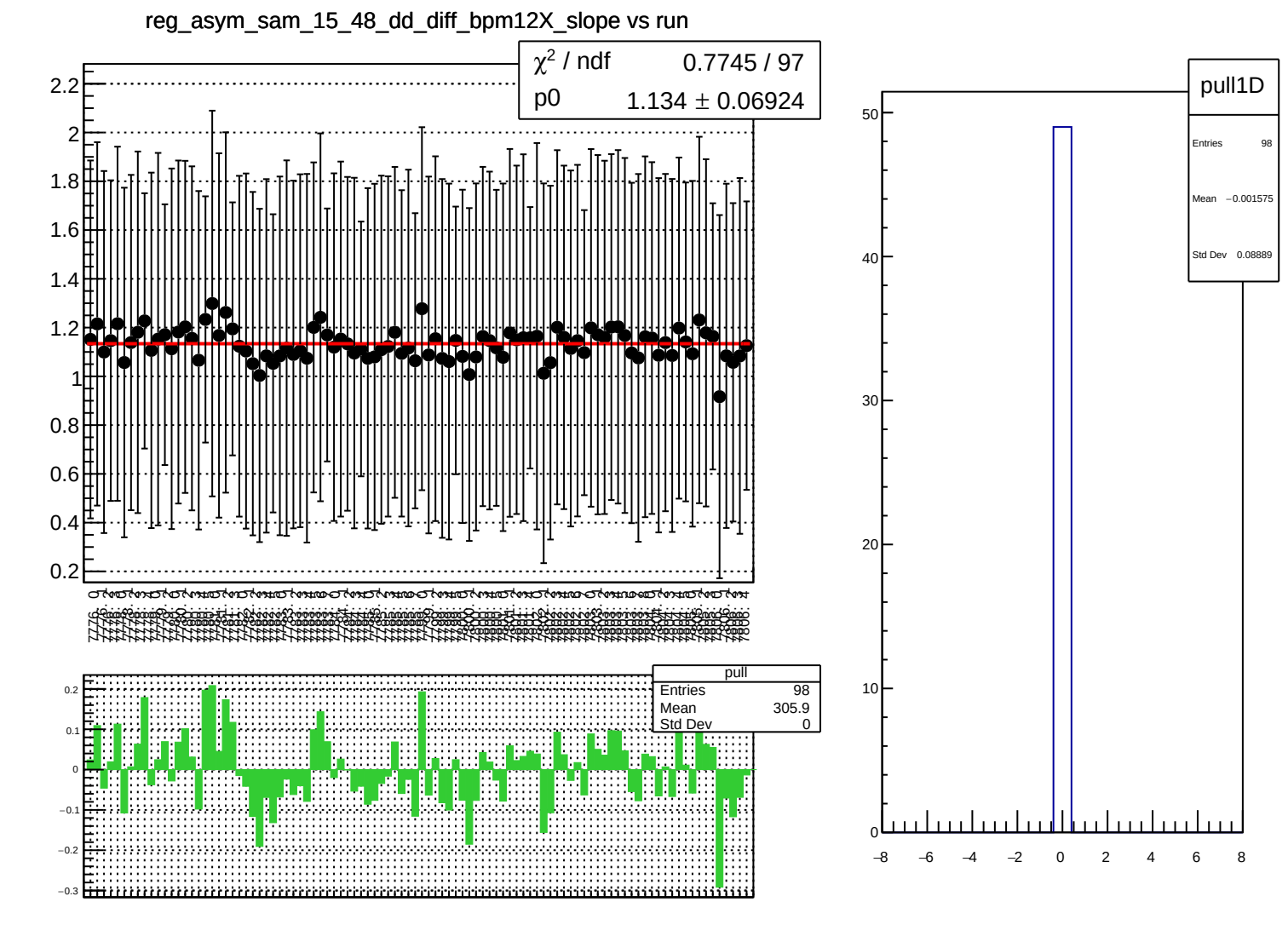

pull1D
Entries 98
Mean −0.0007373
Std Dev 0.1265

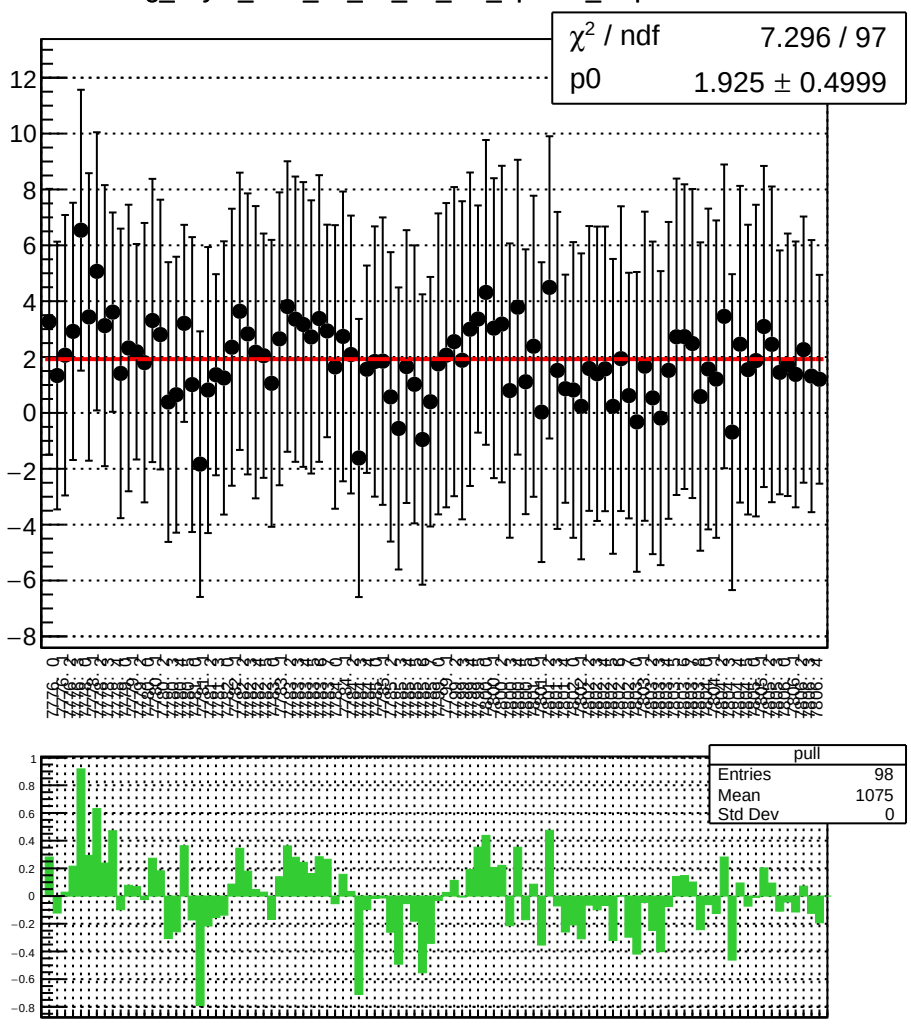

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4851 / 97
p0 −18.79 ± 1.934
pull
Entries 98
Mean −49.52
Std Dev 0
pull1D
Entries 98
Mean 0.0004511
Std Dev 0.07035

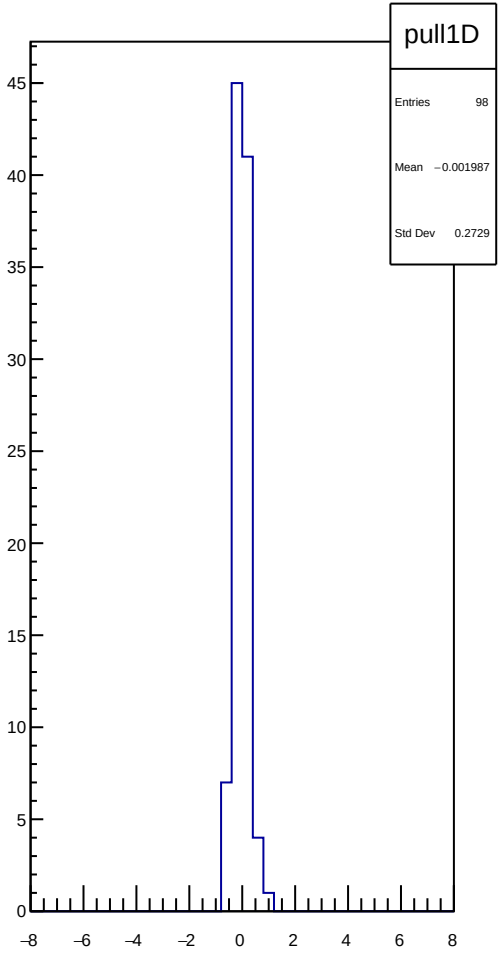

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.121 / 97
p0 31.99 ± 1.635
pull
Entries 98
Mean 4838
Std Dev 0
pull1D
Entries 98
Mean 0.0003266
Std Dev 0.1471

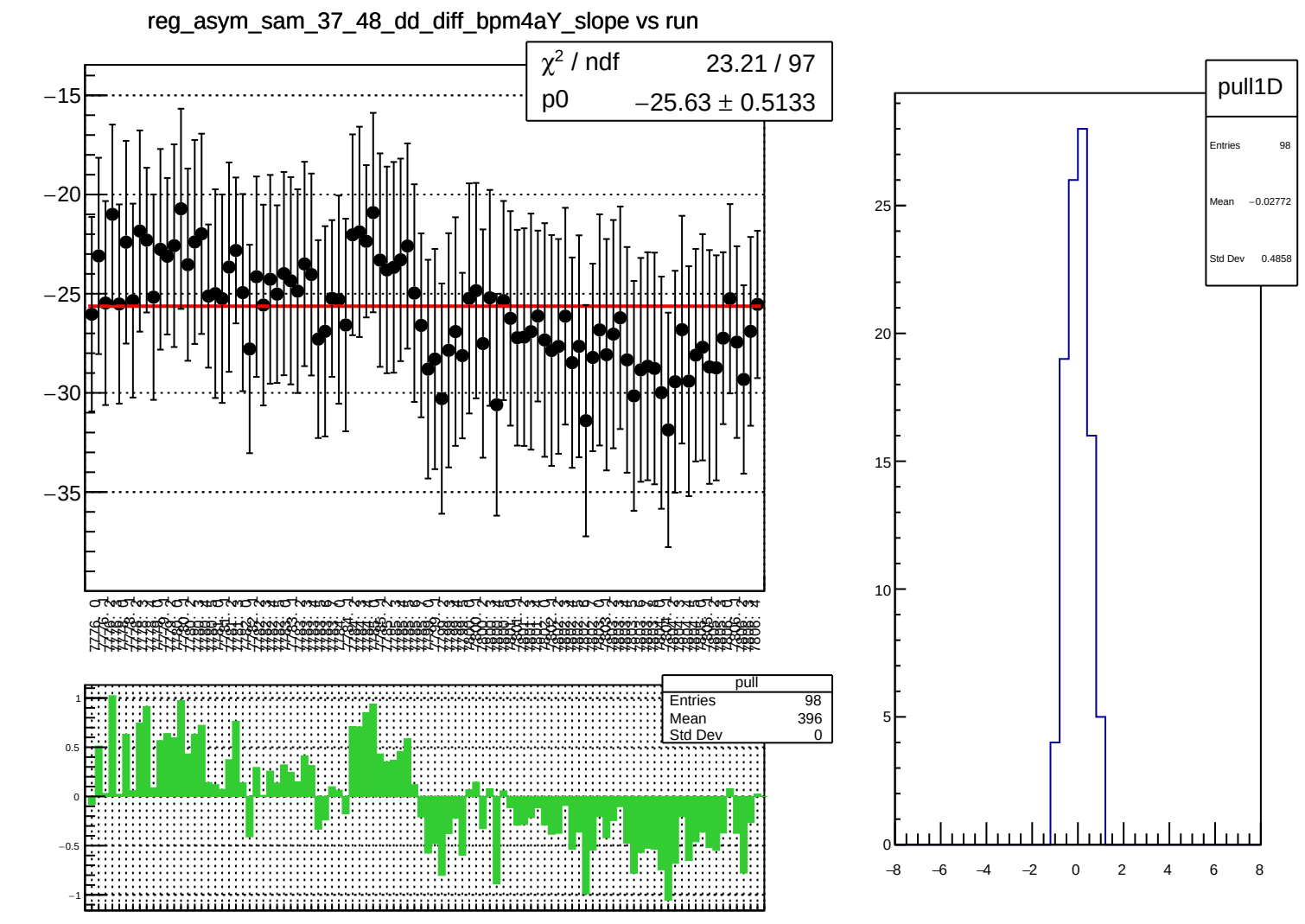

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.4066 / 97
p0 −9.898 ± 2.187
pull
Entries 98
Mean 118.3
Std Dev 0

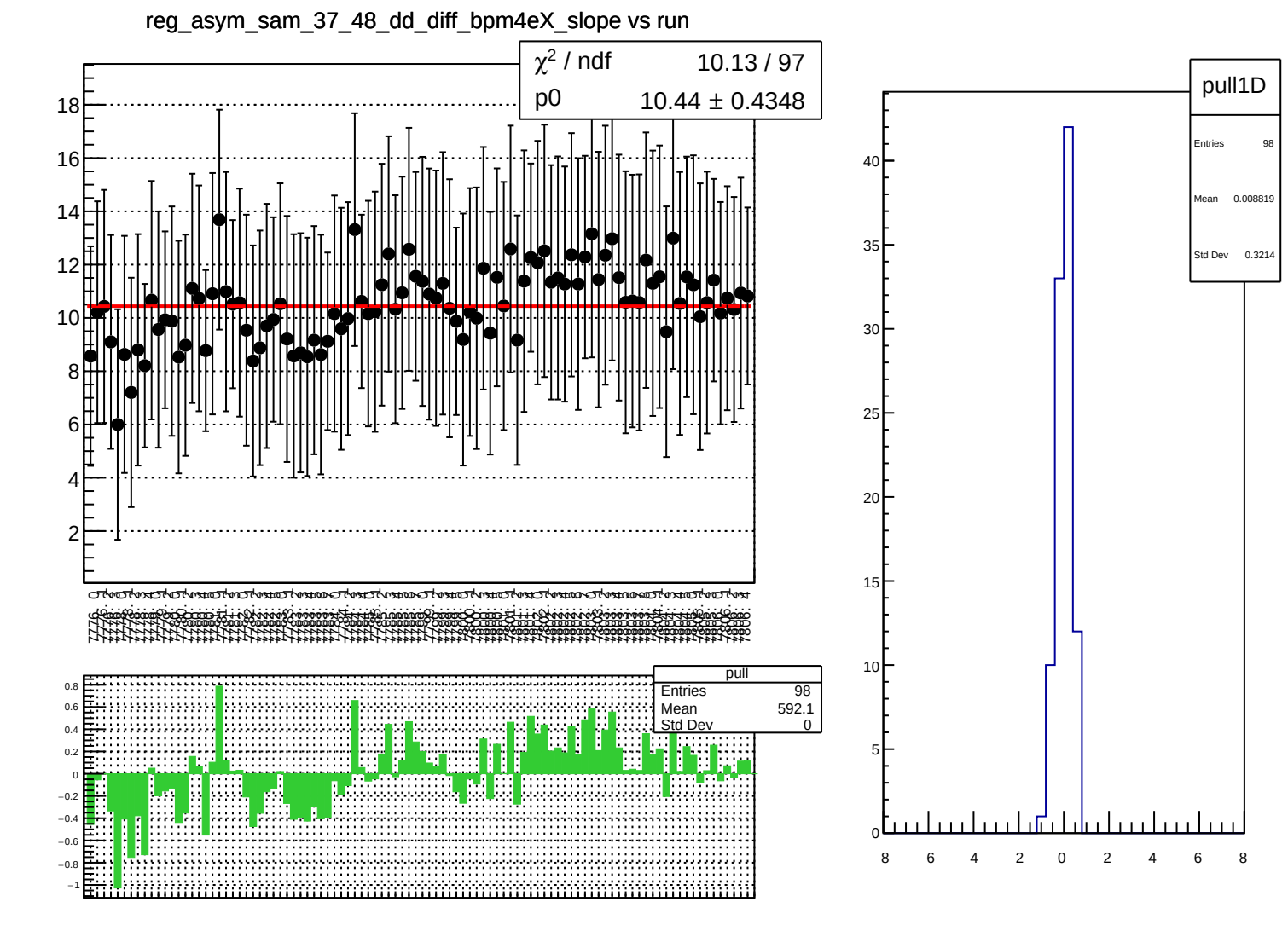

pull1D
Entries 98
Mean −0.0008801
Std Dev 0.06441

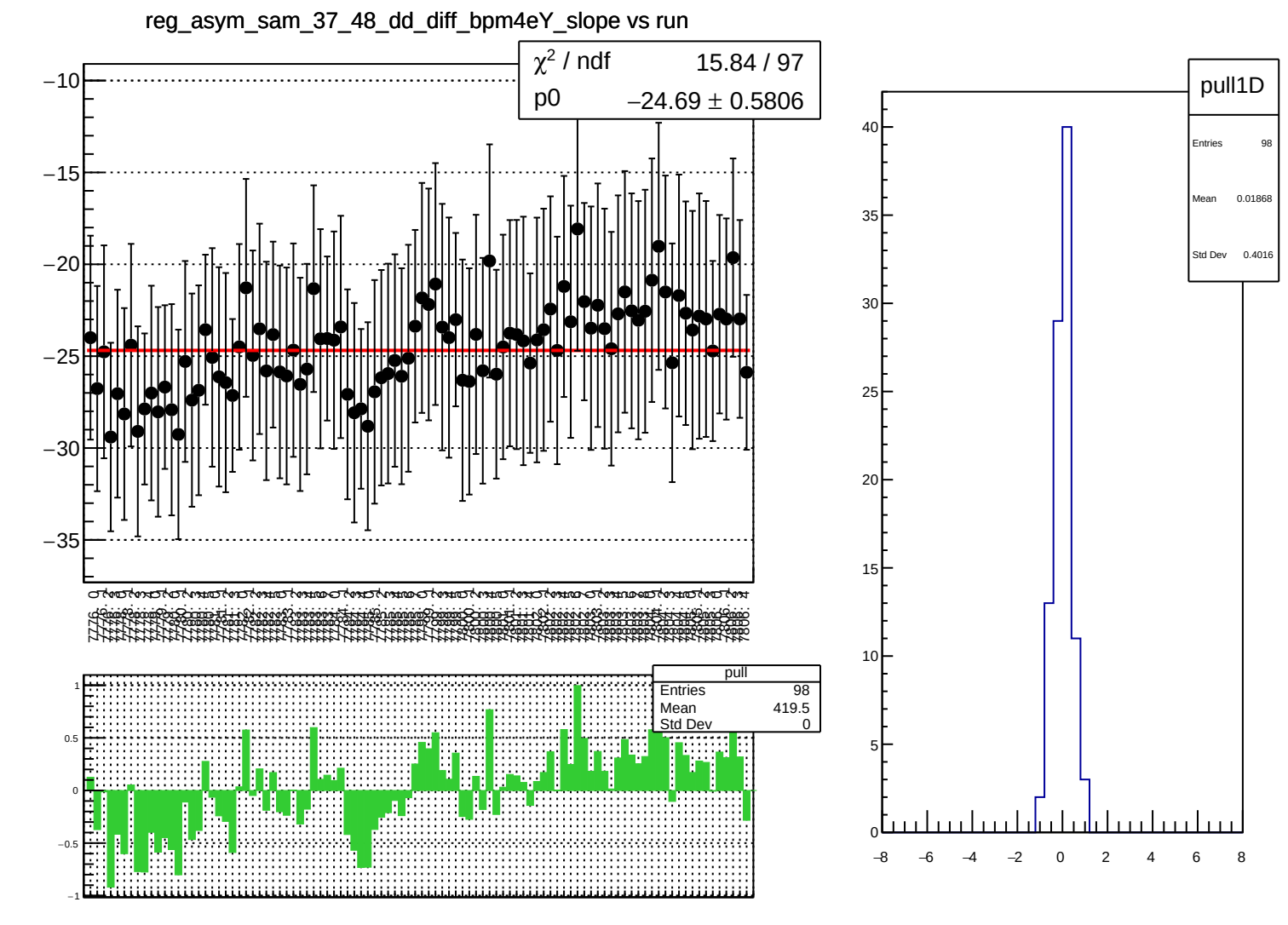

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7745 / 97
p0 1.134 ± 0.06924
pull
Entries 98
Mean 305.9
Std Dev 0
pull1D
Entries 98
Mean −0.001575
Std Dev 0.08889

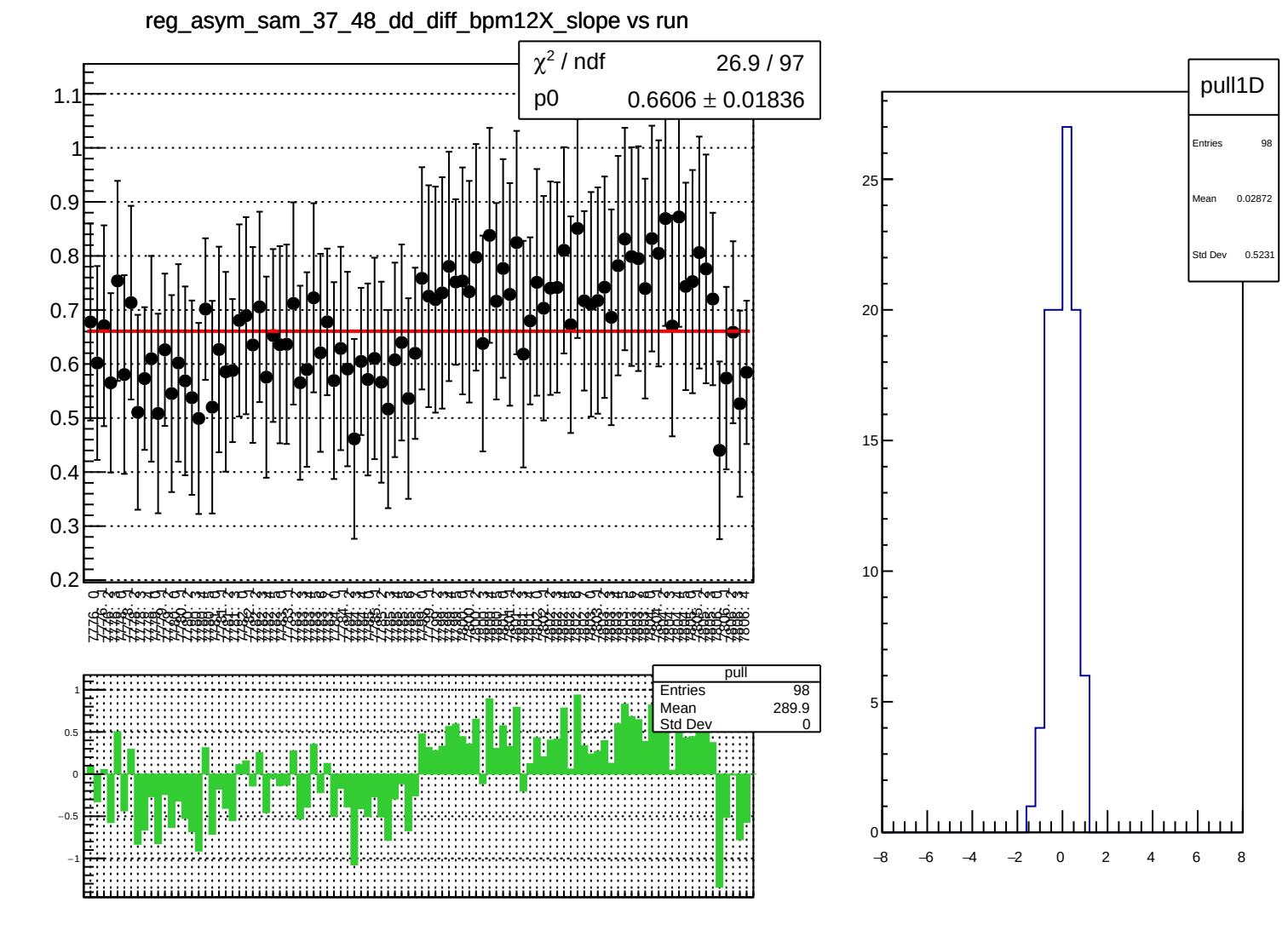

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.296 / 97
p0 1.925 ± 0.4999
pull
Entries 98
Mean 1075
Std Dev 0

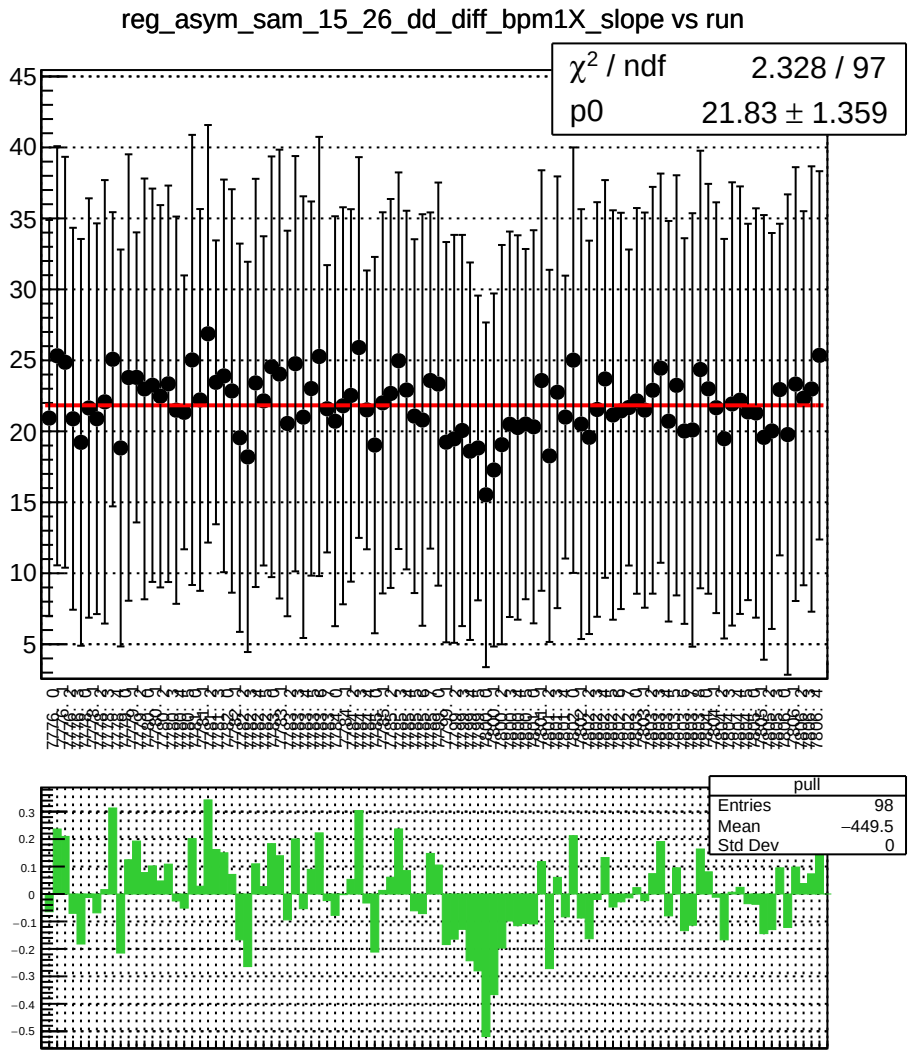

pull1D
Entries 98
Mean −0.001987
Std Dev 0.2729

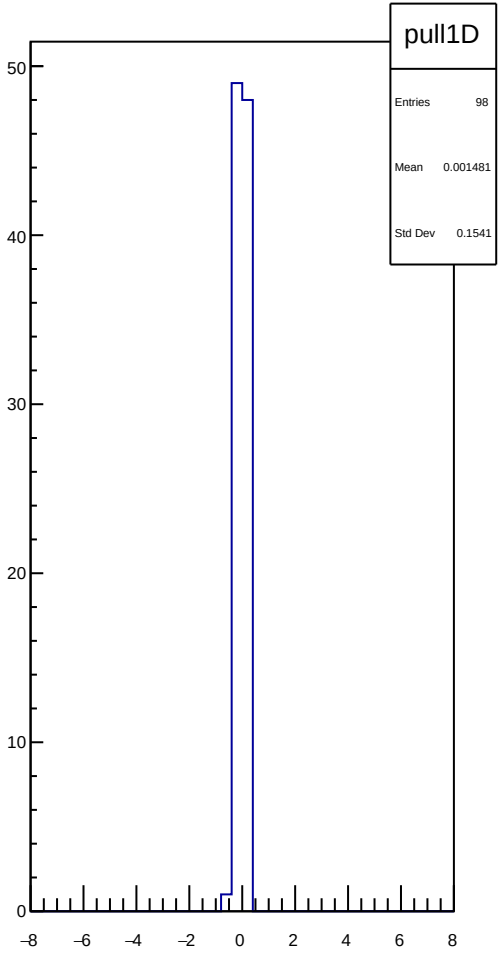

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.21 / 97
p0 −25.63 ± 0.5133
−15
−20
−25
−30
−35
pull
Entries 98
Mean 396
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean −0.02772
Std Dev 0.4858
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

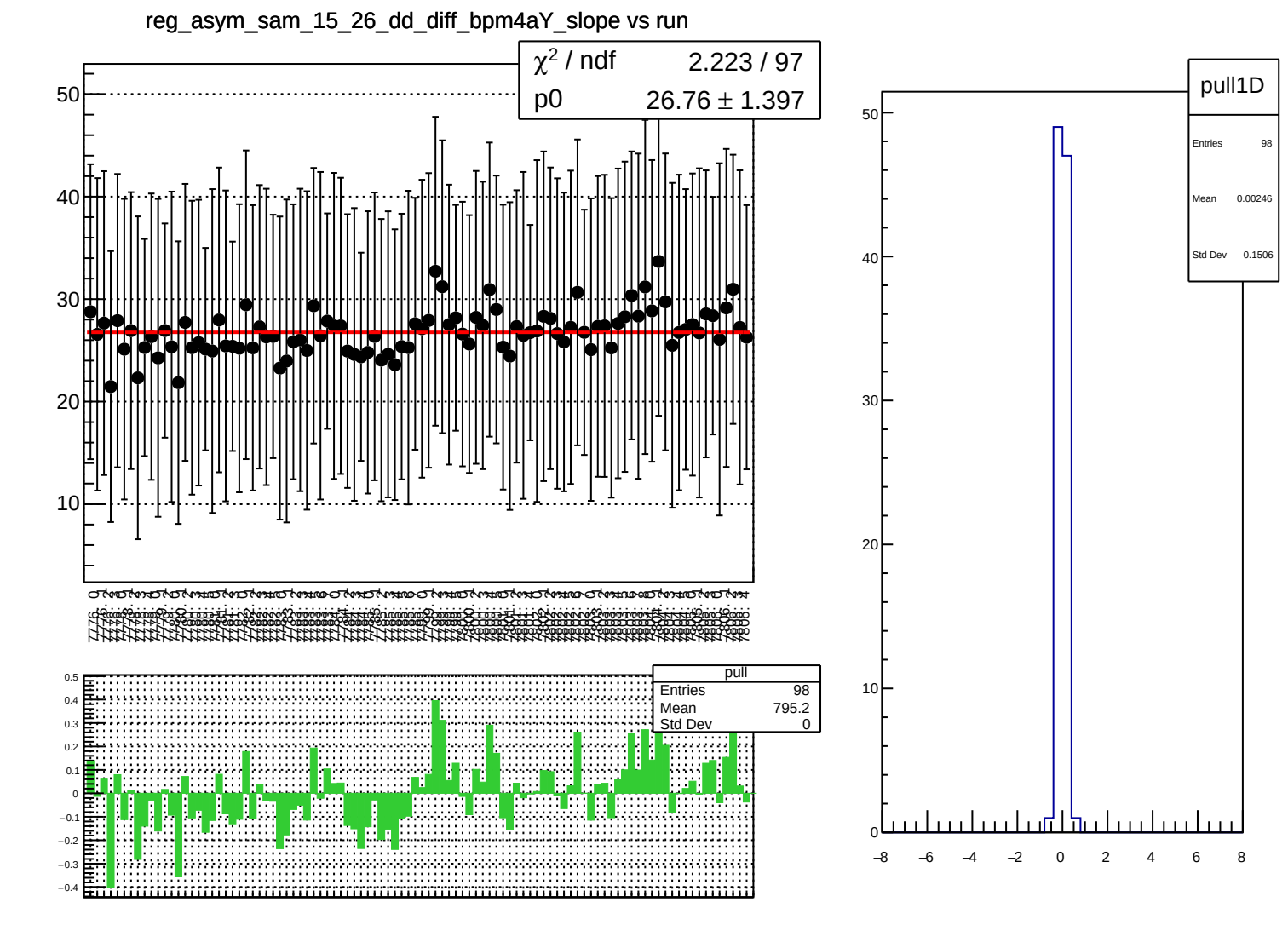

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.13 / 97
p0 10.44 ± 0.4348
pull
Entries 98
Mean 592.1
Std Dev 0
pull1D
Entries 98
Mean 0.008819
Std Dev 0.3214

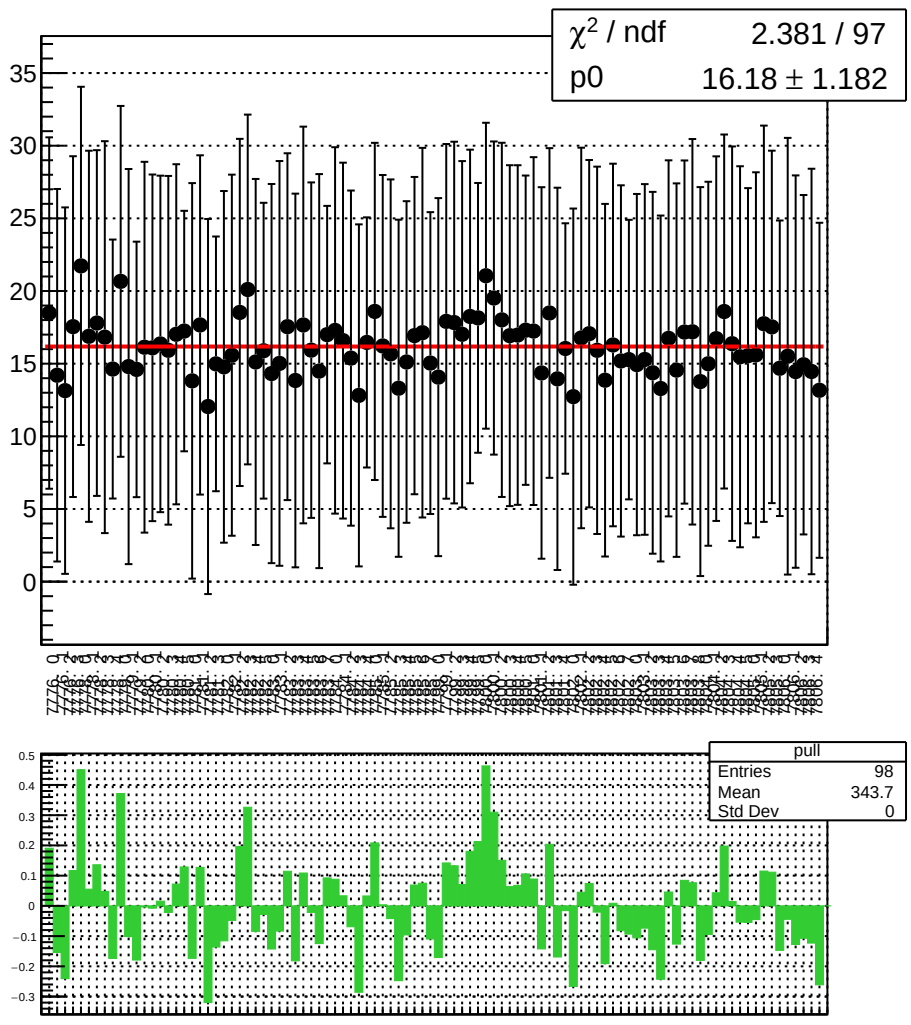

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.84 / 97
p0 −24.69 ± 0.5806
−10
−15
−20
−25
−30
−35
pull
Entries 98
Mean 419.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean 0.01868
Std Dev 0.4016
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

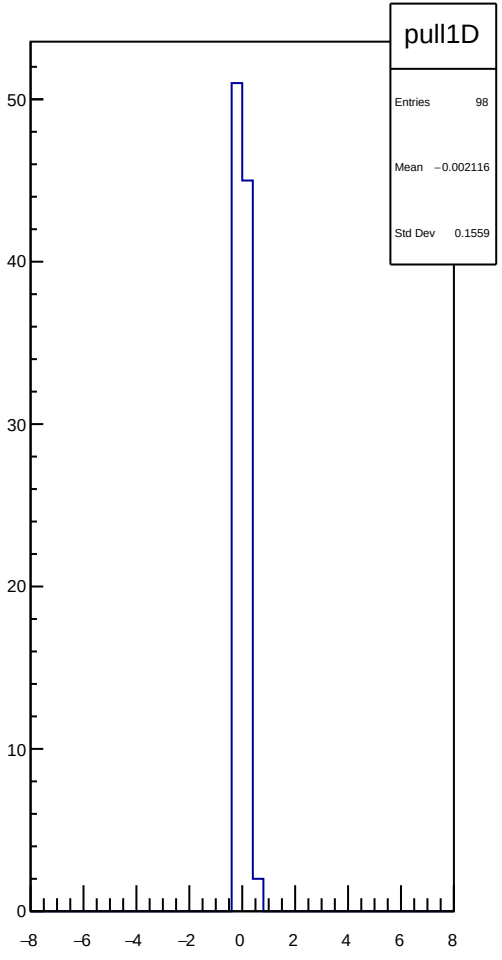

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 26.9 / 97
p0 0.6606 ± 0.01836
pull
Entries 98
Mean 289.9
Std Dev 0
pull1D
Entries 98
Mean 0.02872
Std Dev 0.5231

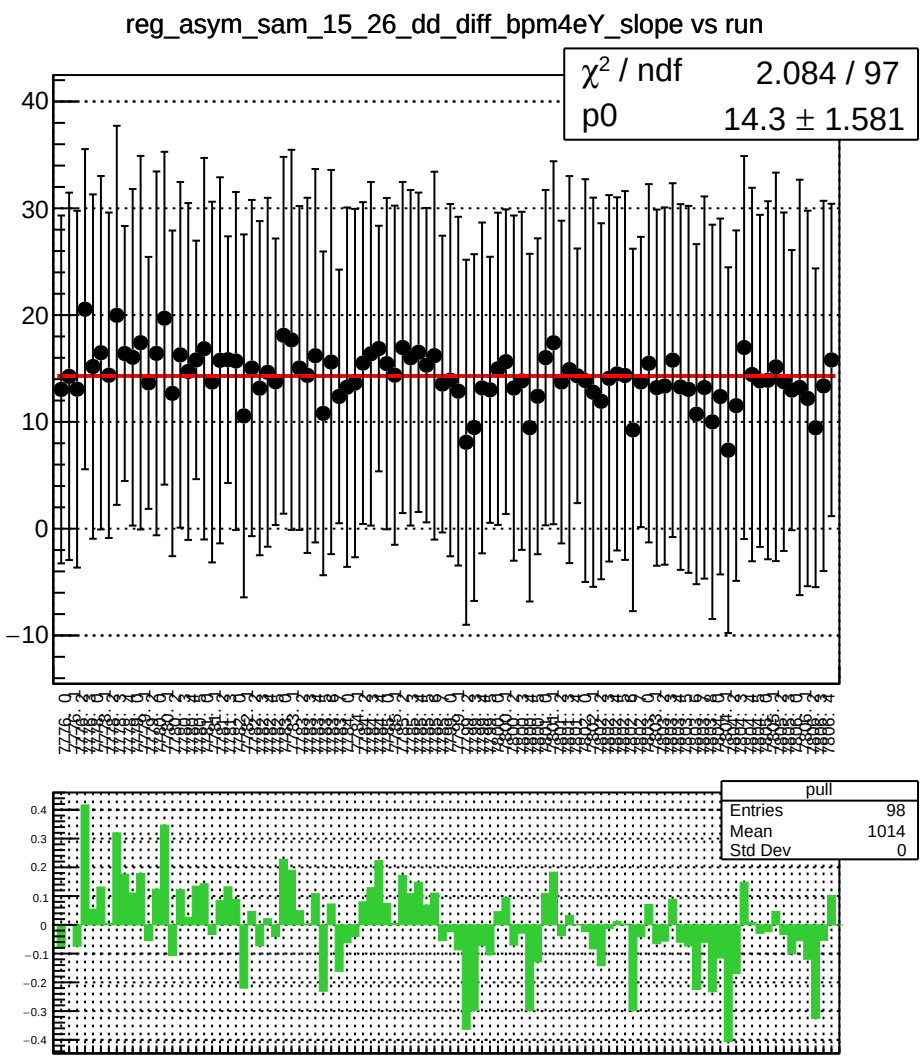

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.328 / 97
p0 21.83 ± 1.359
pull
Entries 98
Mean −449.5
Std Dev 0

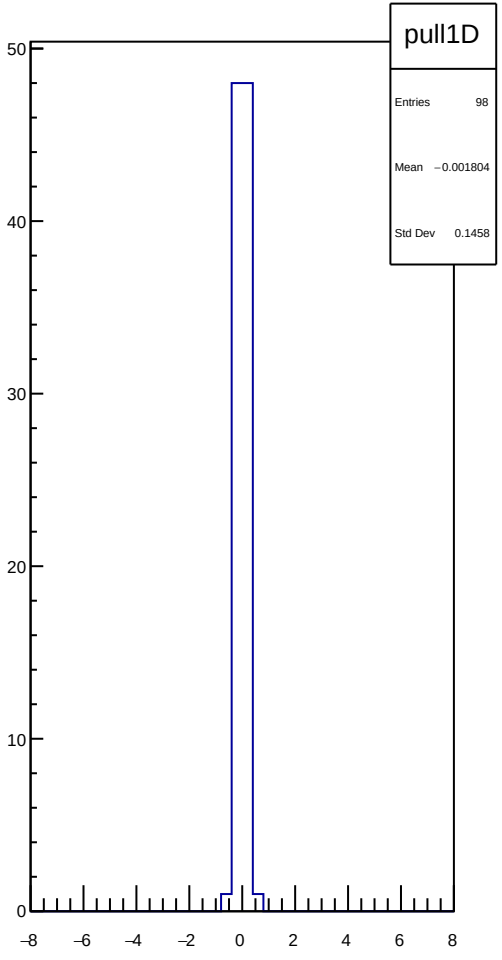

pull1D
Entries 98
Mean 0.001481
Std Dev 0.1541

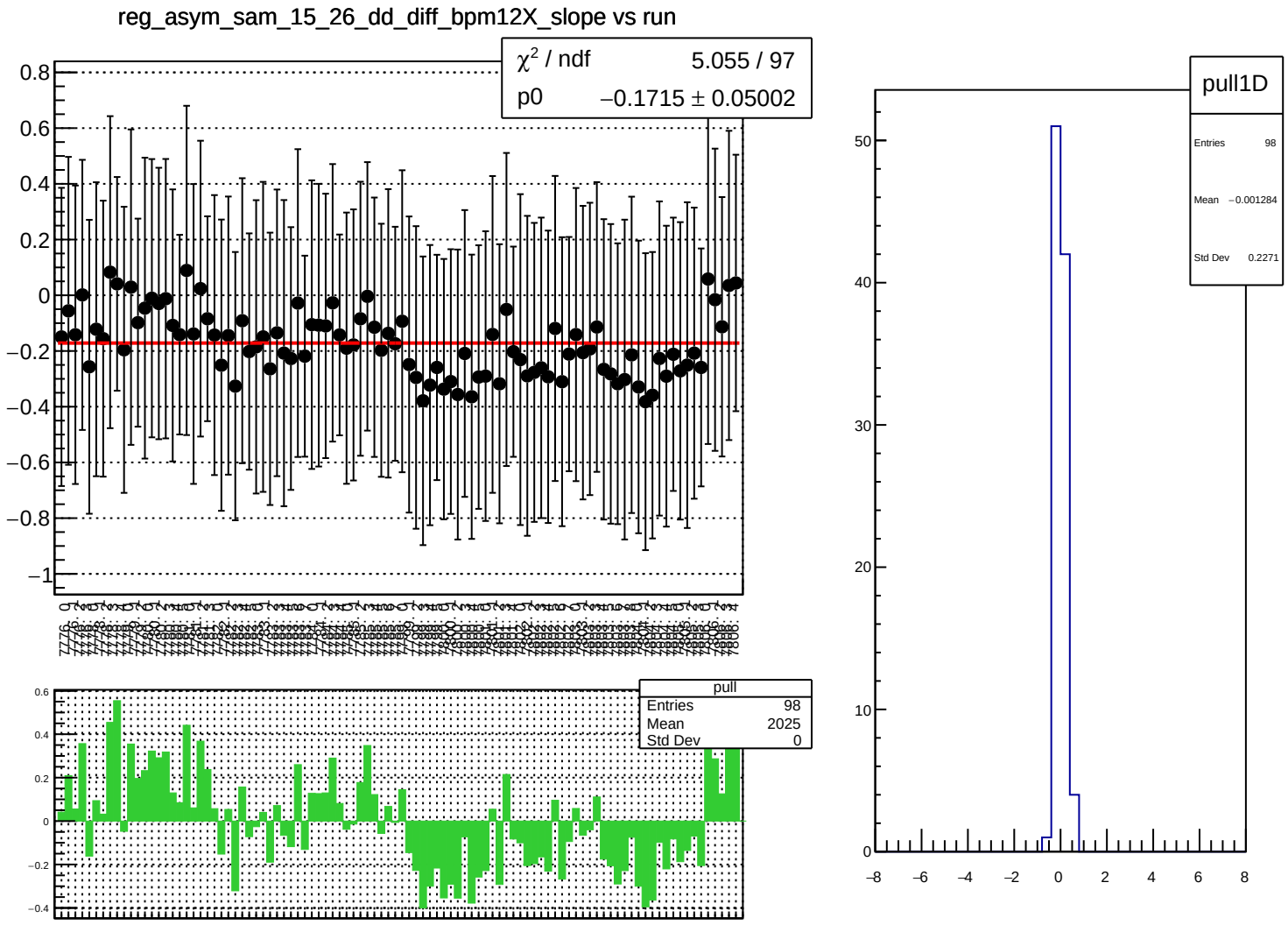

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.223 / 97
p0 26.76 ± 1.397
pull
Entries 98
Mean 795.2
Std Dev 0
pull1D
Entries 98
Mean 0.00246
Std Dev 0.1506

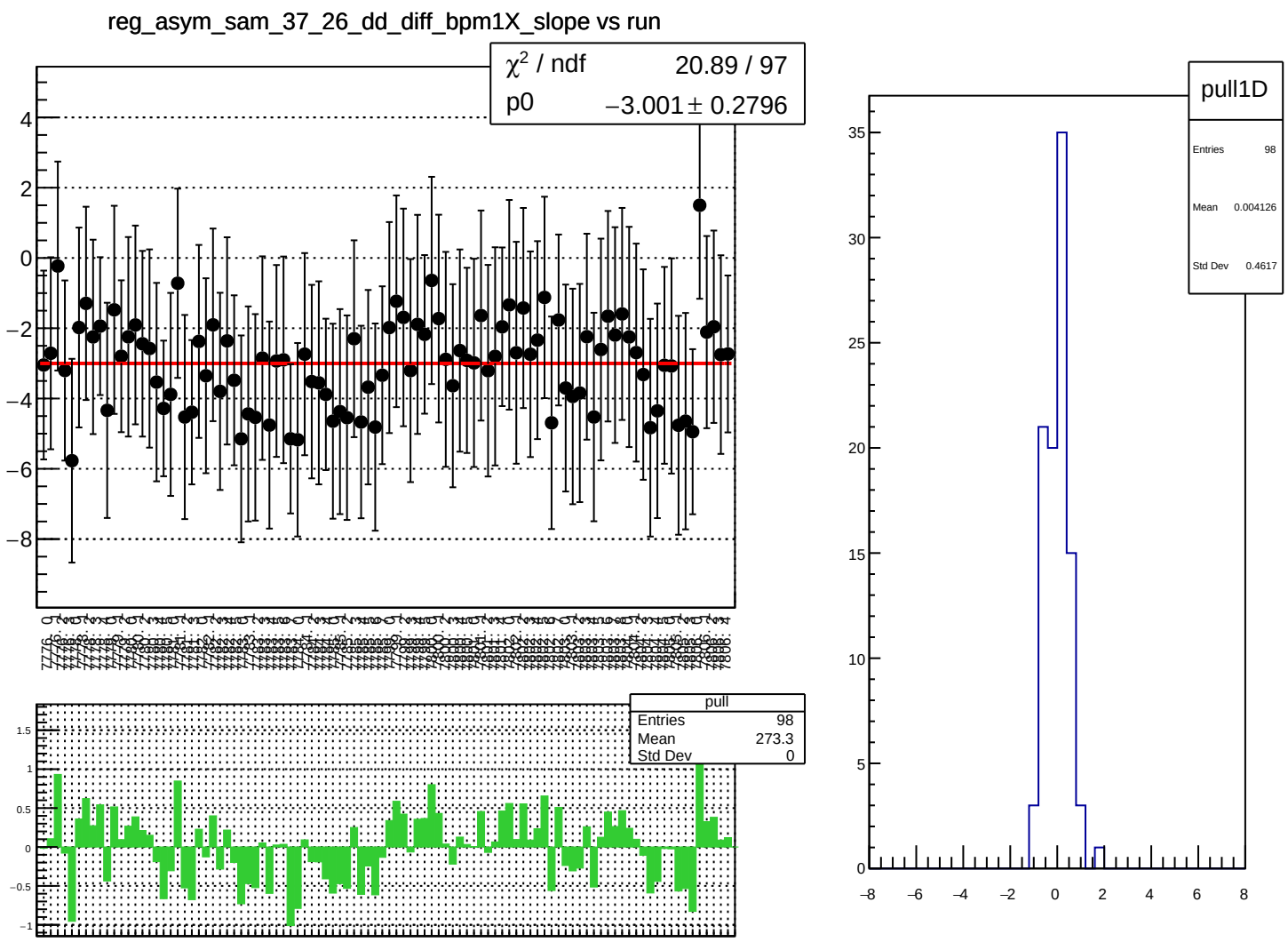

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.381 / 97
p0 16.18 ± 1.182
pull
Entries 98
Mean 343.7
Std Dev 0

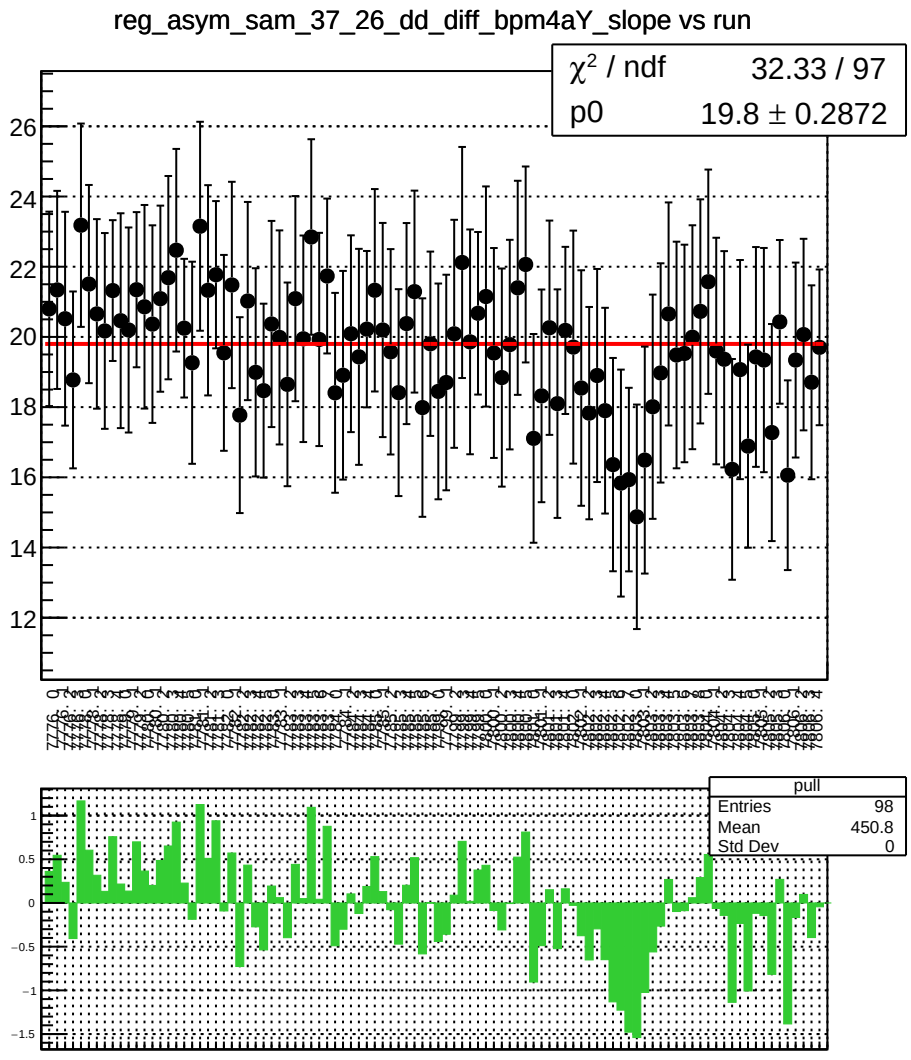

pull1D
Entries 98
Mean −0.002116
Std Dev 0.1559

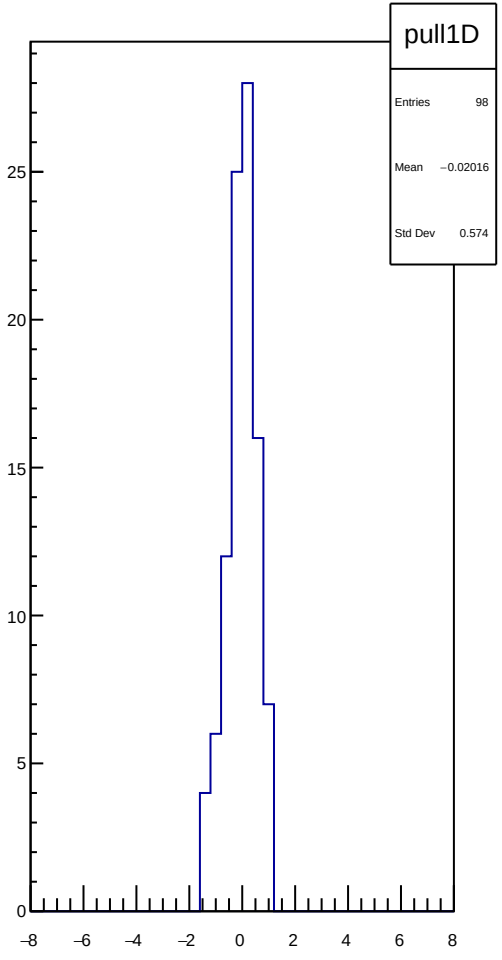

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.084 / 97
p0 14.3 ± 1.581
pull
Entries 98
Mean 1014
Std Dev 0

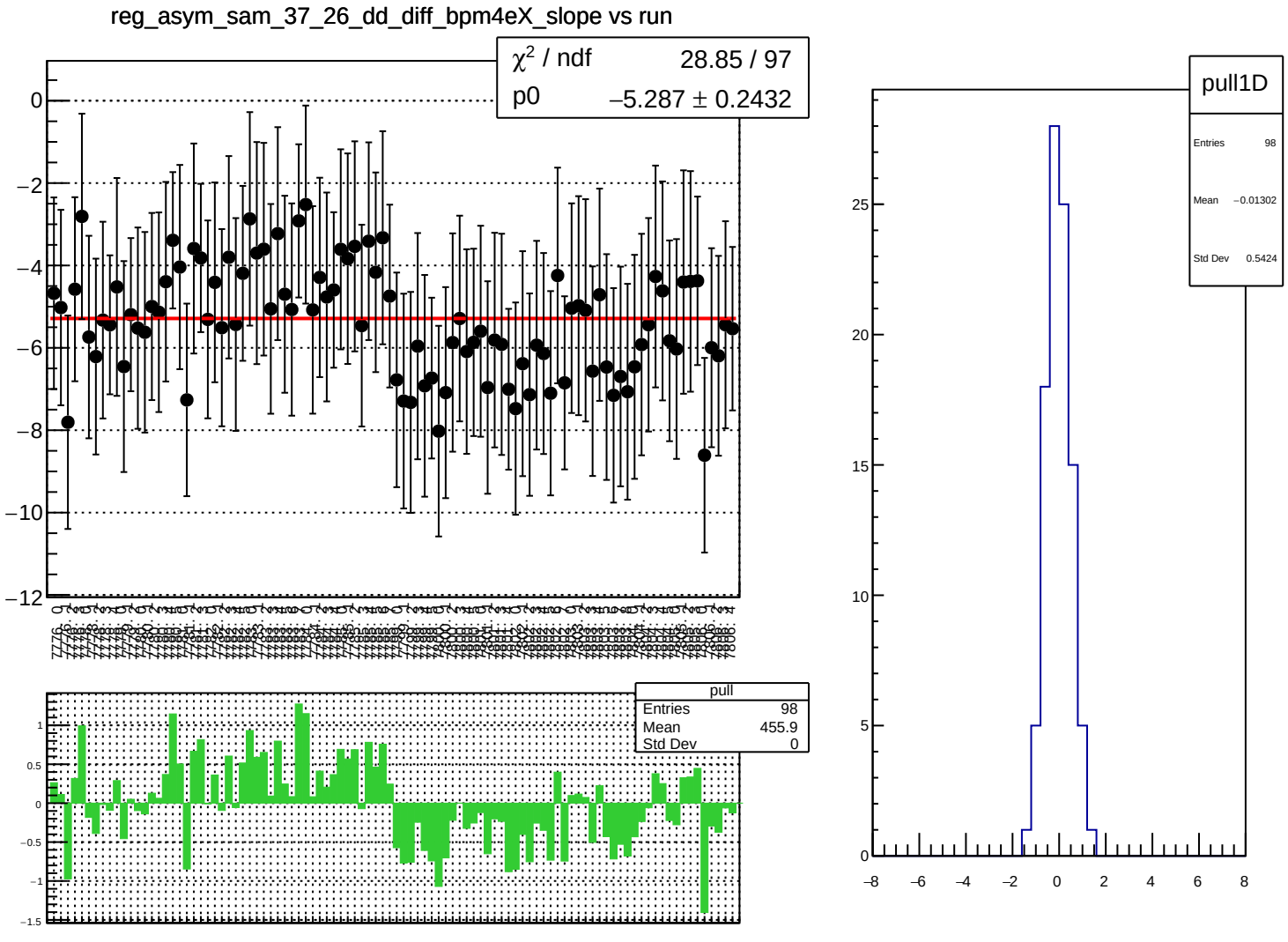

pull1D
Entries 98
Mean −0.001804
Std Dev 0.1458

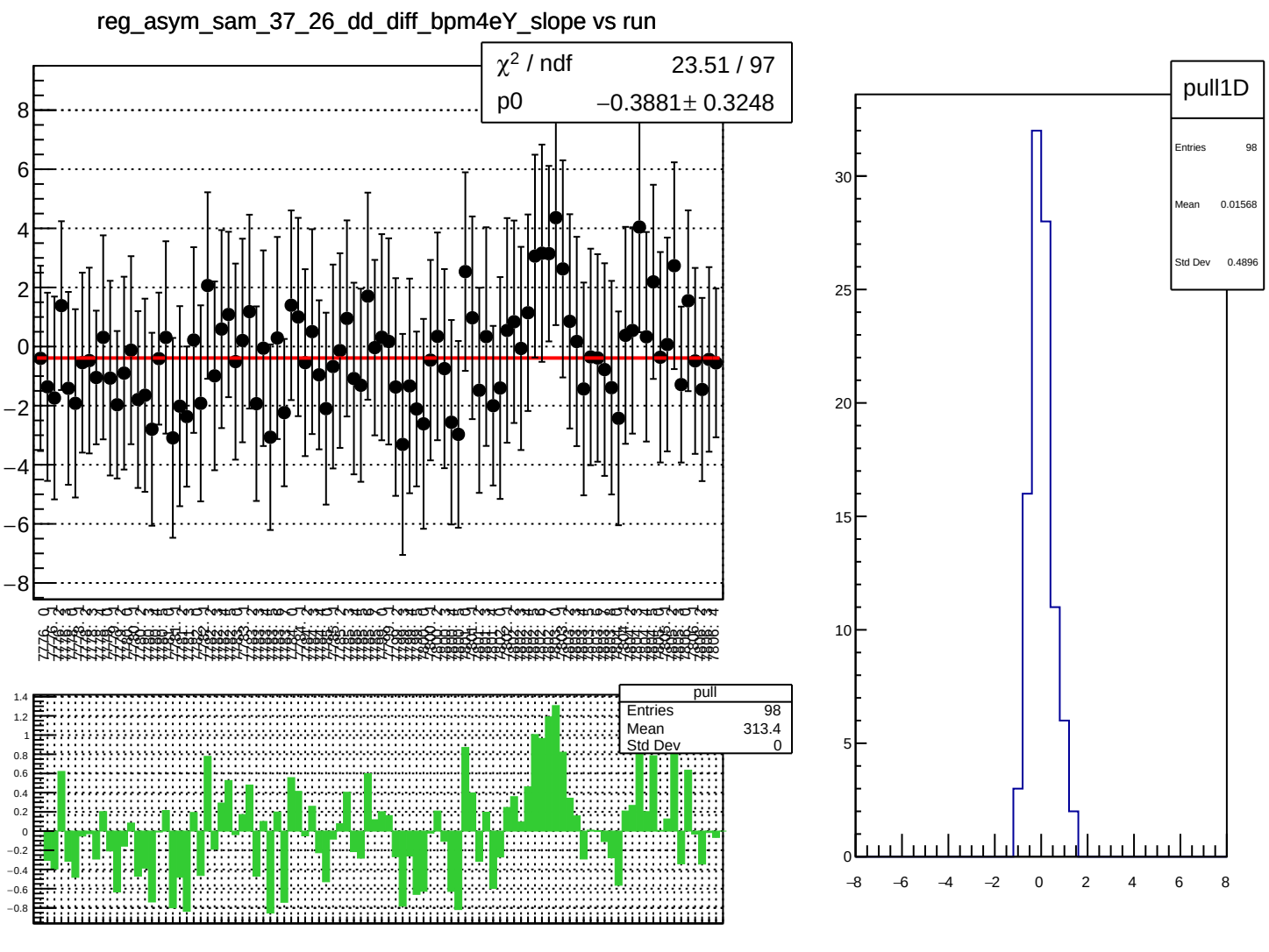

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 5.055 / 97
p0 −0.1715 ± 0.05002
pull
Entries 98
Mean 2025
Std Dev 0
pull1D
Entries 98
Mean −0.001284
Std Dev 0.2271

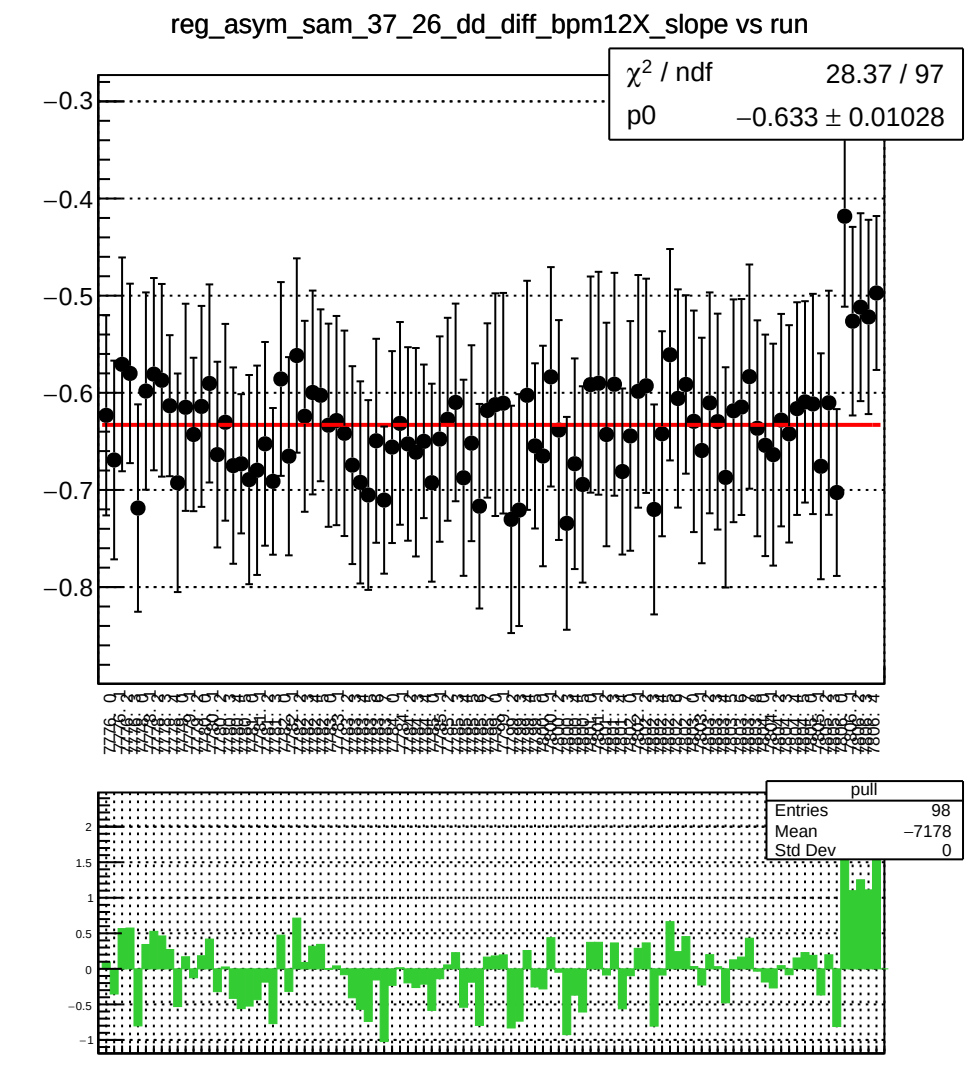

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 20.89 / 97
p0 −3.001 ± 0.2796
pull
Entries 98
Mean 273.3
Std Dev 0
pull1D
Entries 98
Mean 0.004126
Std Dev 0.4617

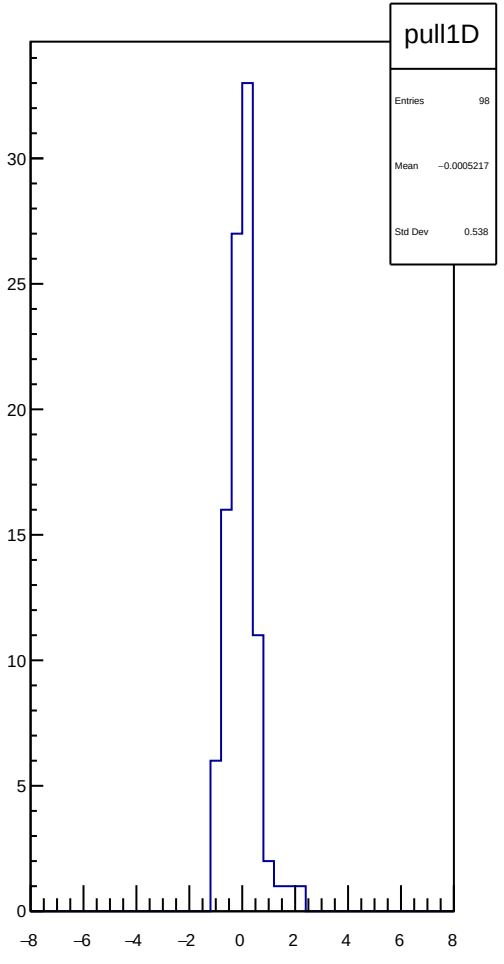

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.33 / 97
p0 19.8 ± 0.2872
pull
Entries 98
Mean 450.8
Std Dev 0

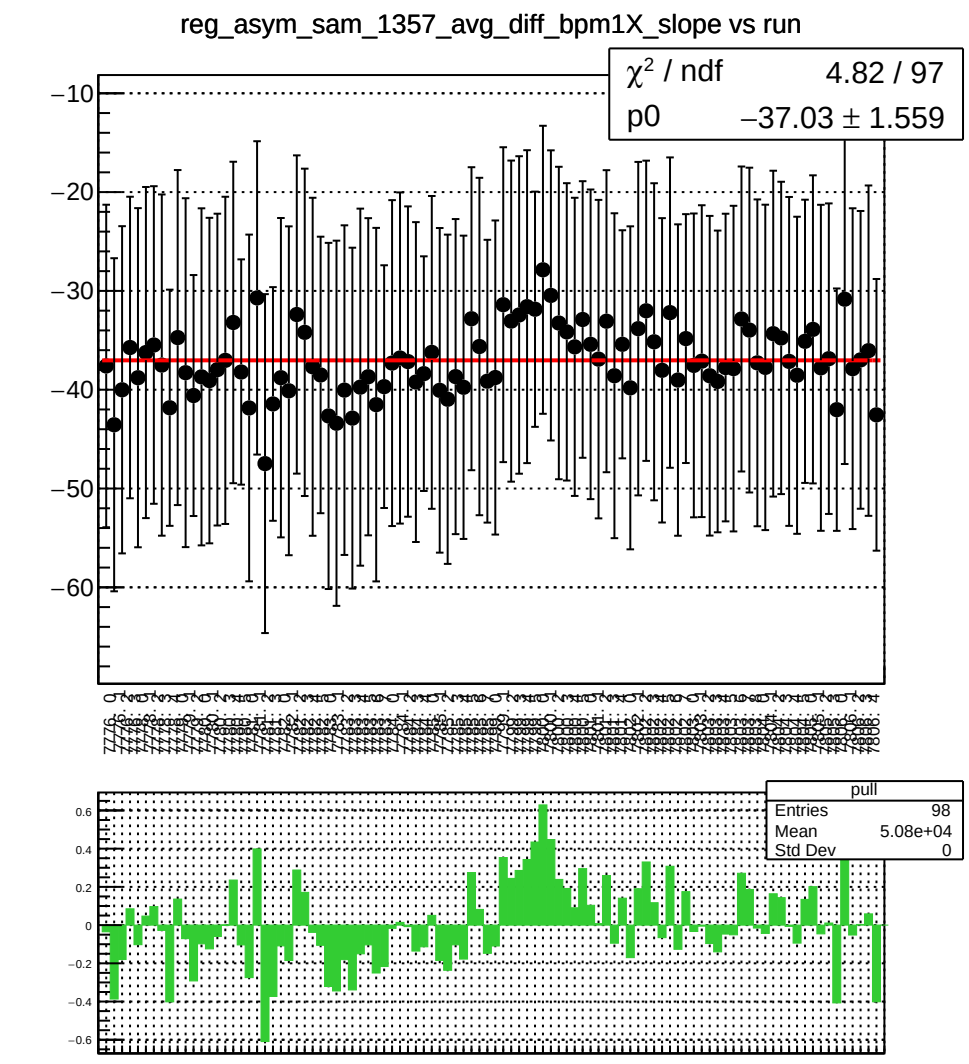

pull1D
Entries 98
Mean −0.02016
Std Dev 0.574

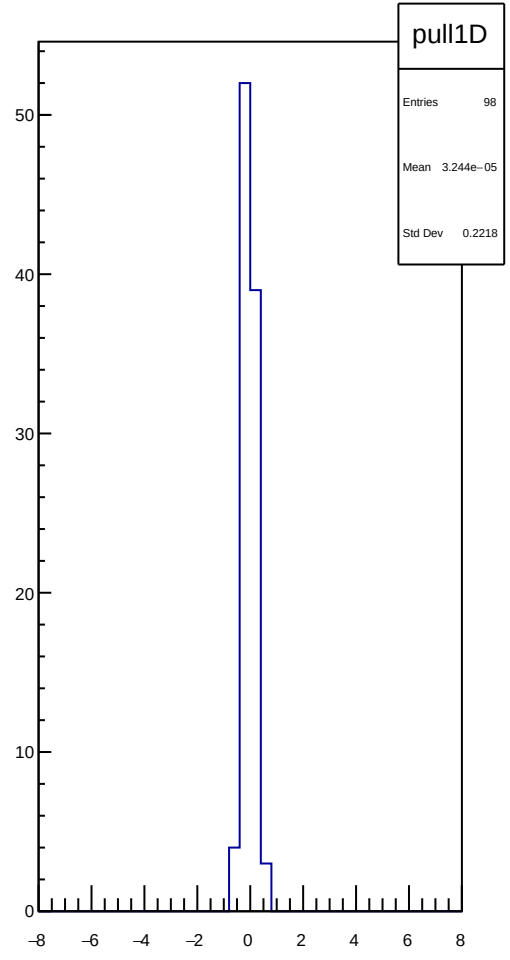

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.85 / 97
p0 −5.287 ± 0.2432
pull
Entries 98
Mean 455.9
Std Dev 0
pull1D
Entries 98
Mean −0.01302
Std Dev 0.5424

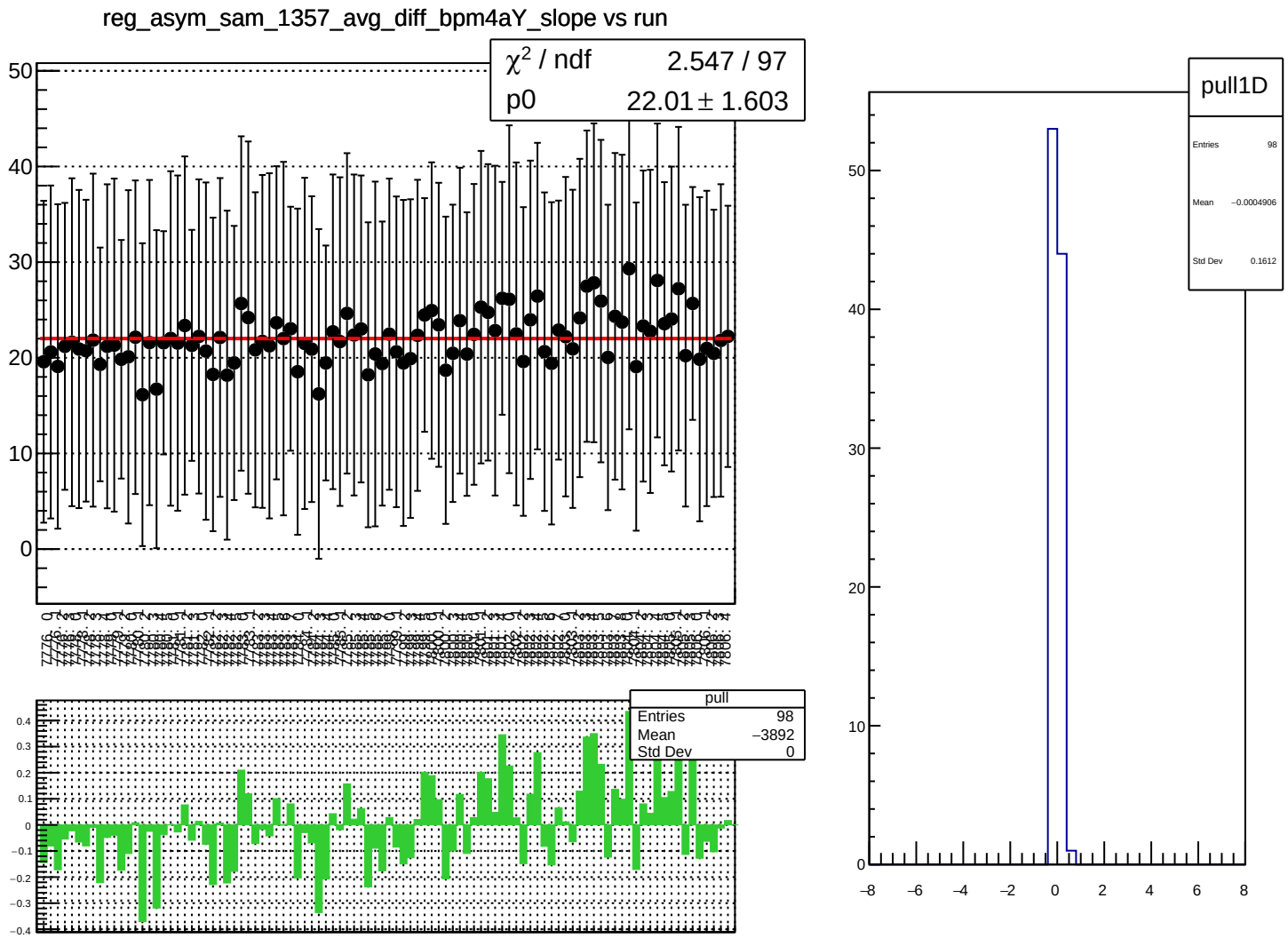

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.51 / 97
p0 −0.3881± 0.3248
pull
Entries 98
Mean 313.4
Std Dev 0
pull1D
Entries 98
Mean 0.01568
Std Dev 0.4896

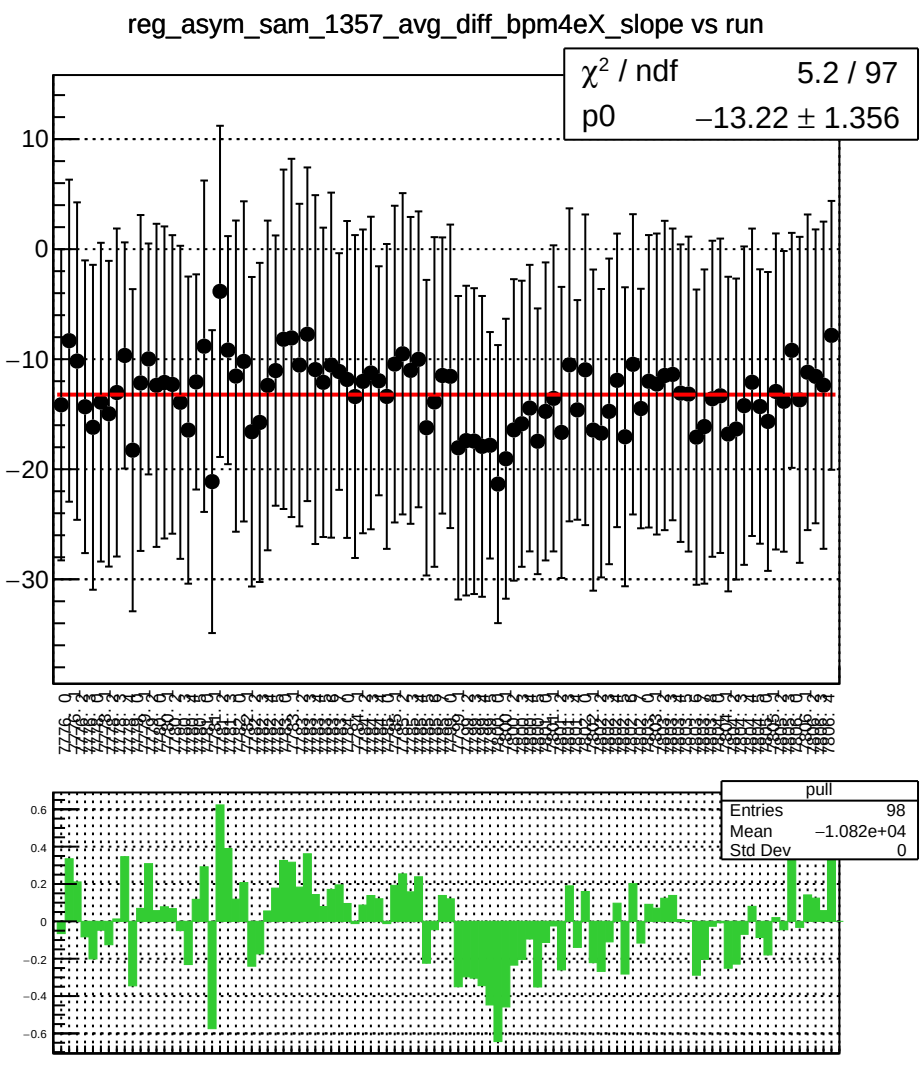

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 28.37 / 97
p0 −0.633 ± 0.01028
pull
Entries 98
Mean −7178
Std Dev 0

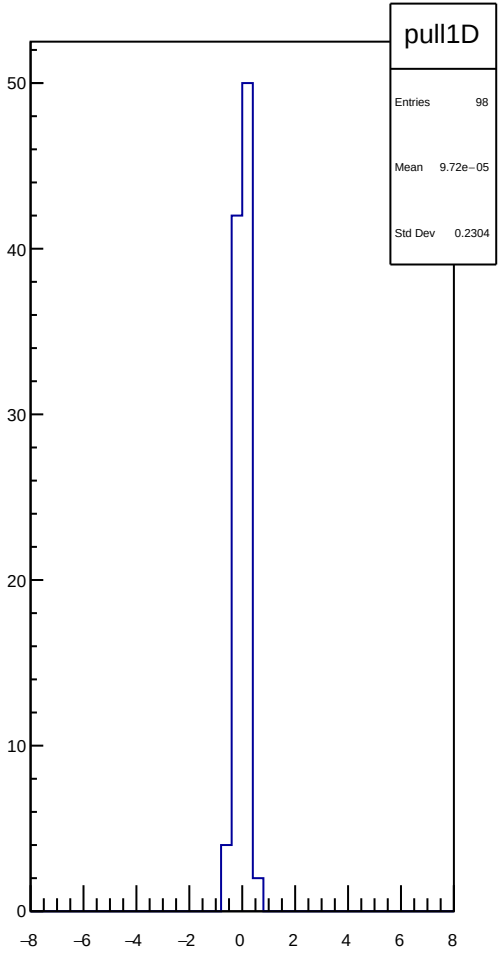

pull1D
Entries 98
Mean −0.0005217
Std Dev 0.538

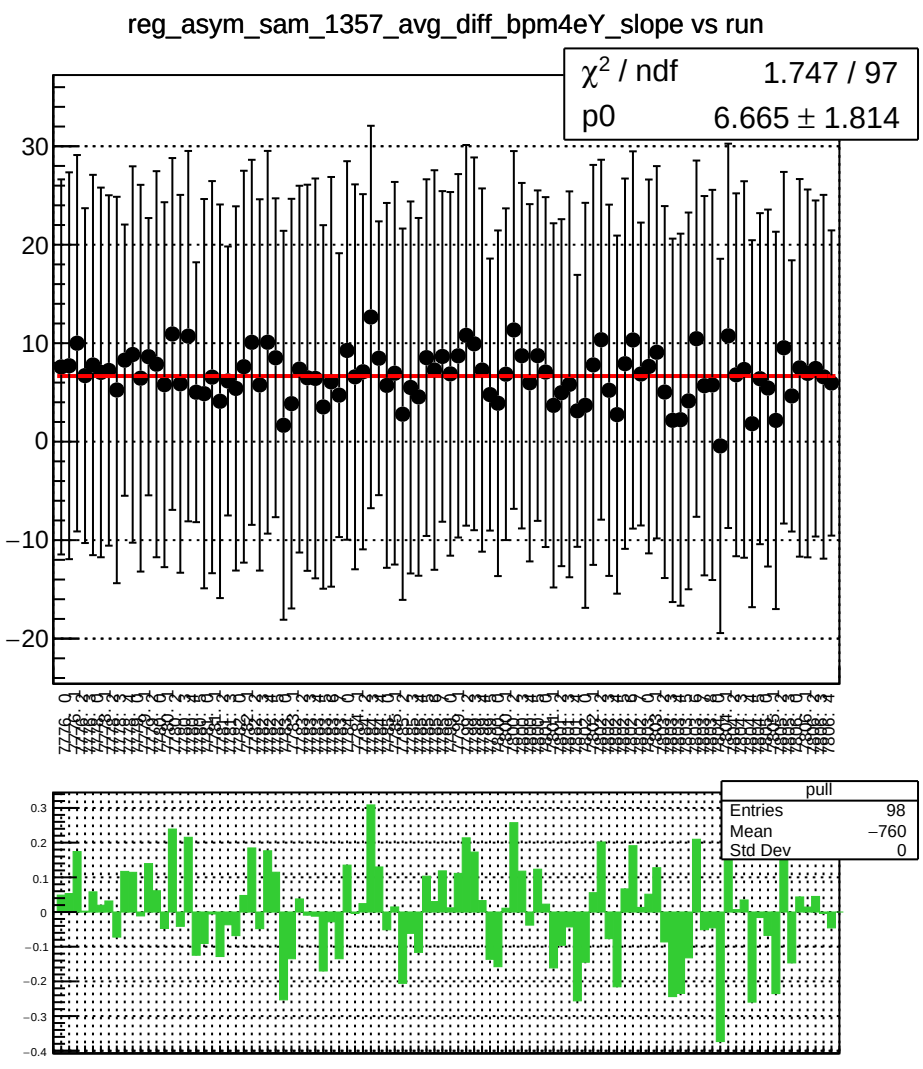

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 4.82 / 97
p0 −37.03 ± 1.559
−10
−20
−30
−40
−50
−60
pull
Entries 98
Mean 5.08e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

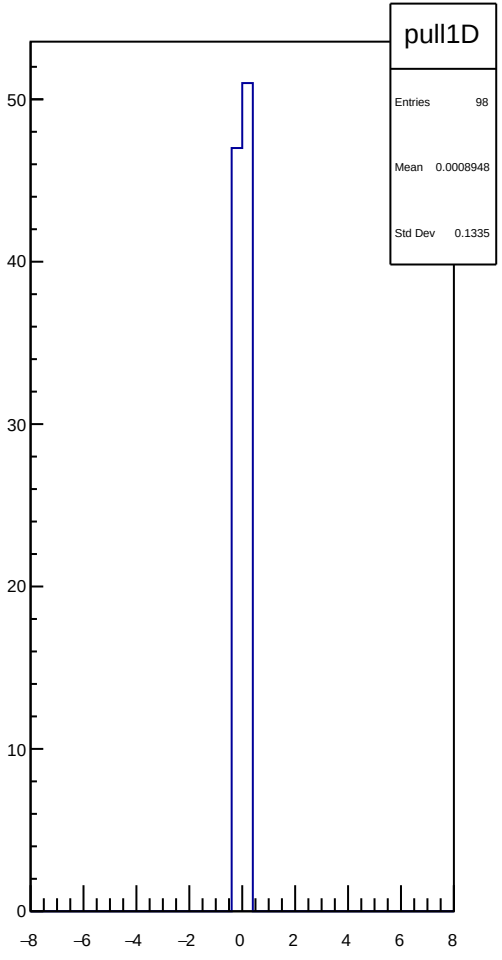

pull1D
Entries 98
Mean 3.244e−05
Std Dev 0.2218
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

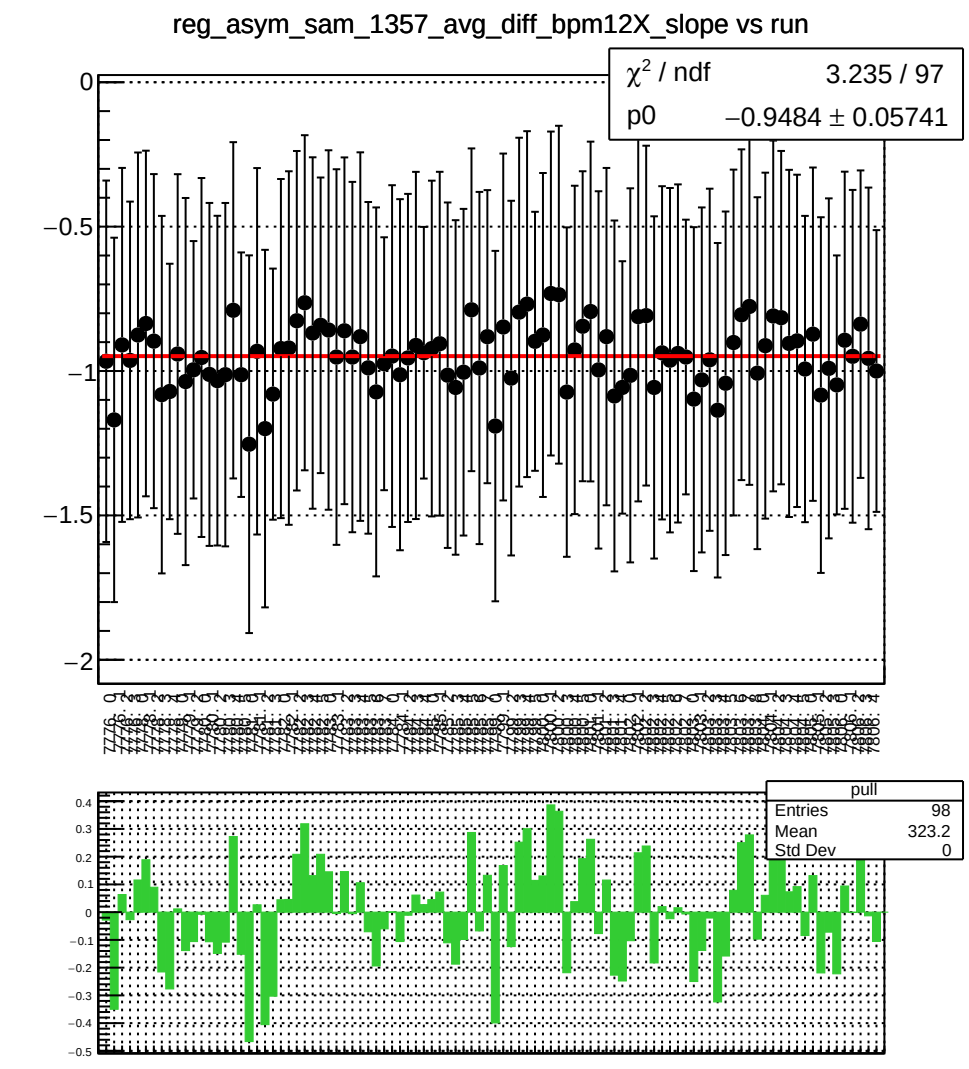

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.547 / 97
p0 22.01 ± 1.603
pull
Entries 98
Mean −3892
Std Dev 0
pull1D
Entries 98
Mean −0.0004906
Std Dev 0.1612

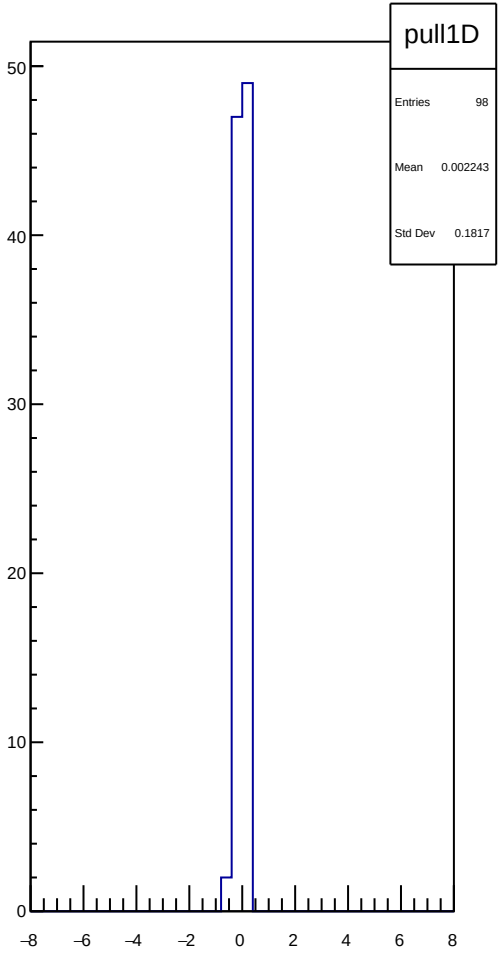

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.2 / 97
p0 −13.22 ± 1.356
pull
Entries 98
Mean −1.082e+04
Std Dev 0

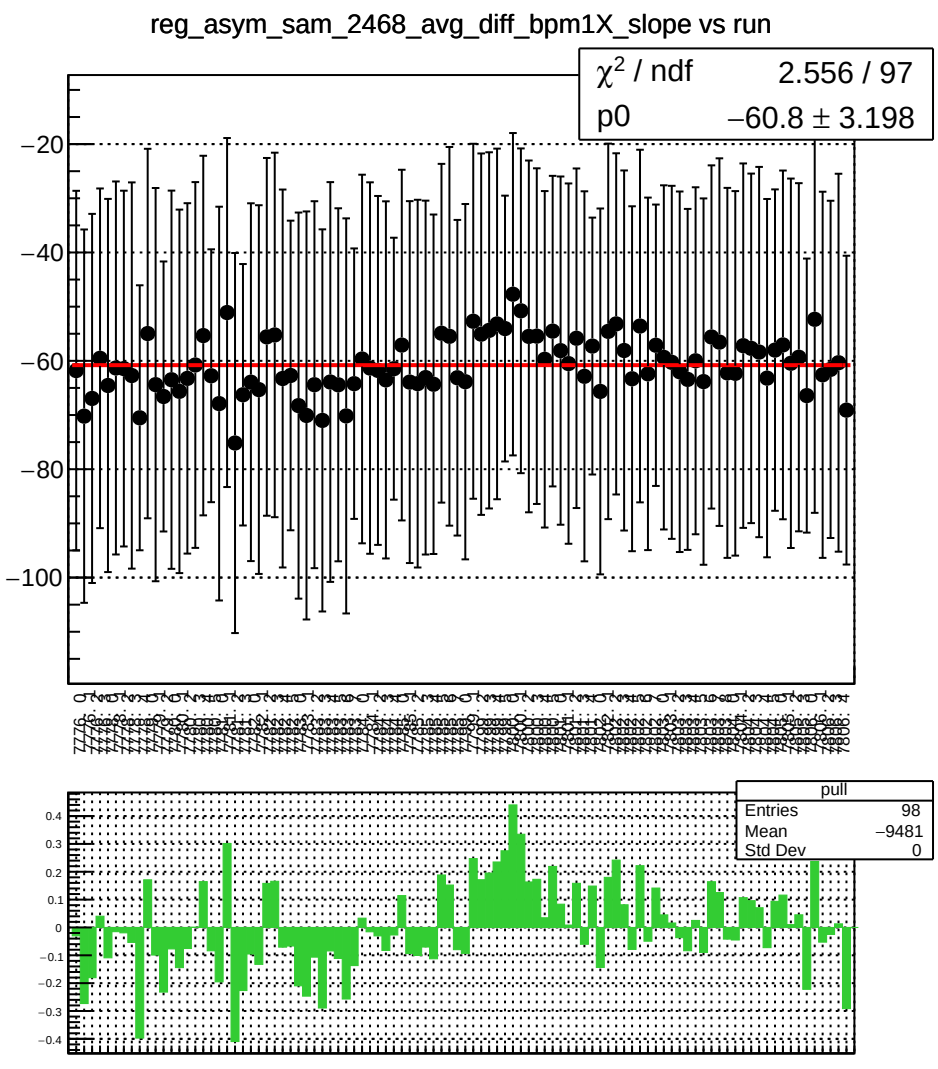

pull1D
Entries 98
Mean 9.72e−05
Std Dev 0.2304

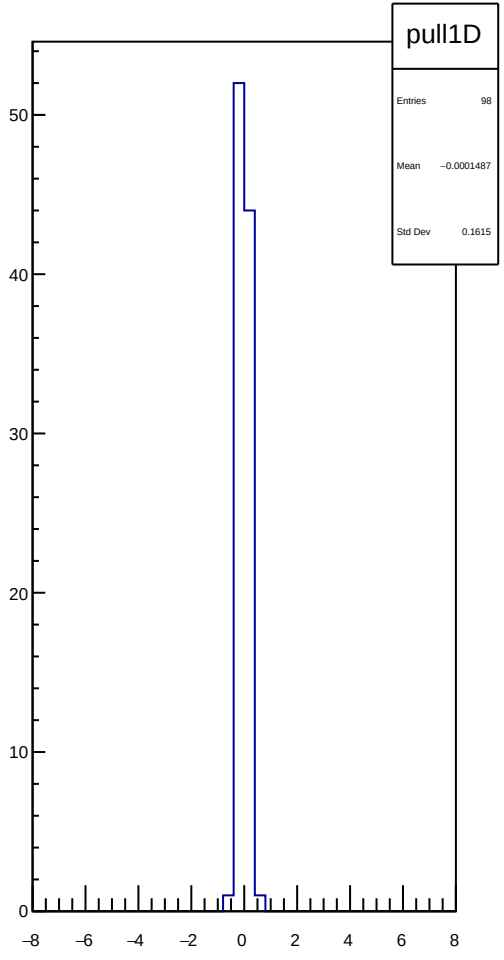

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.747 / 97
p0 6.665 ± 1.814
pull
Entries 98
Mean −760
Std Dev 0

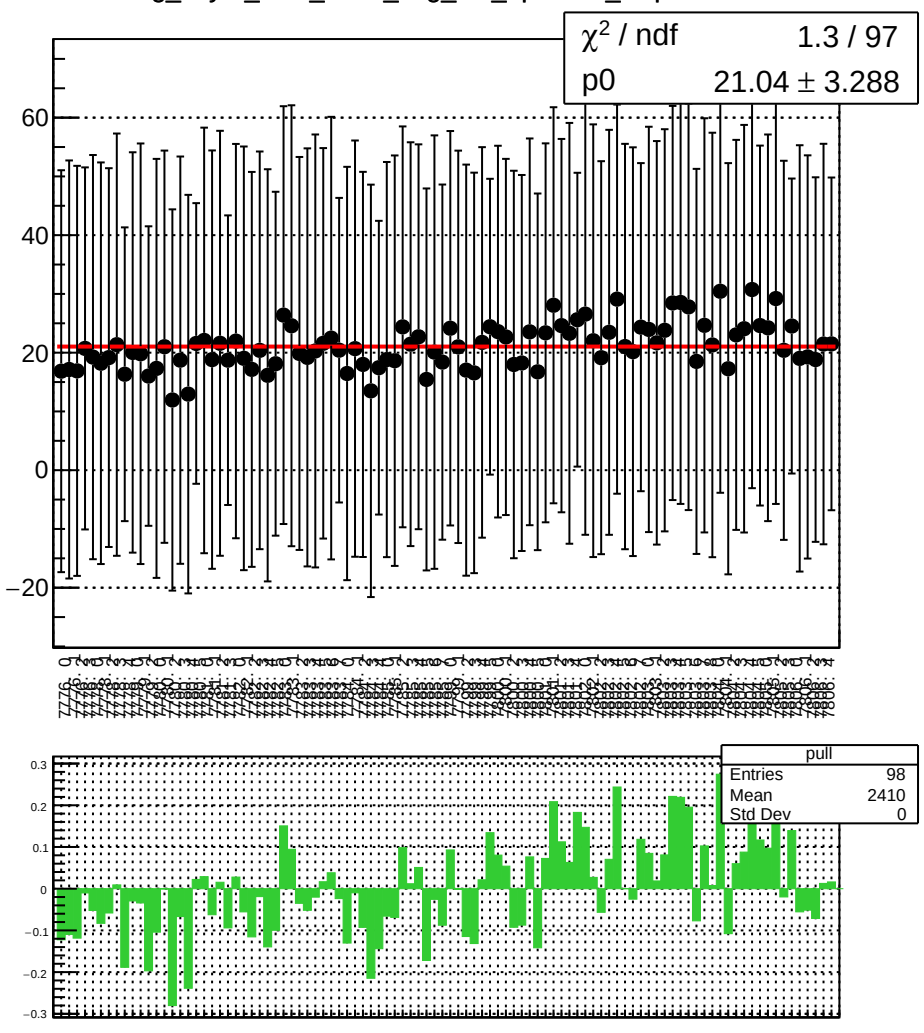

pull1D
Entries 98
Mean 0.0008948
Std Dev 0.1335

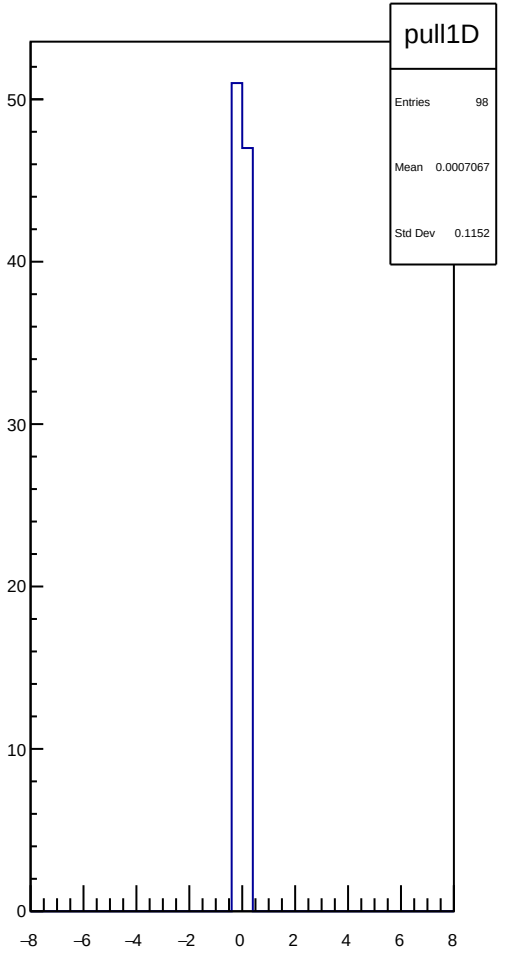

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 3.235 / 97
p0 −0.9484 ± 0.05741
pull
Entries 98
Mean 323.2
Std Dev 0

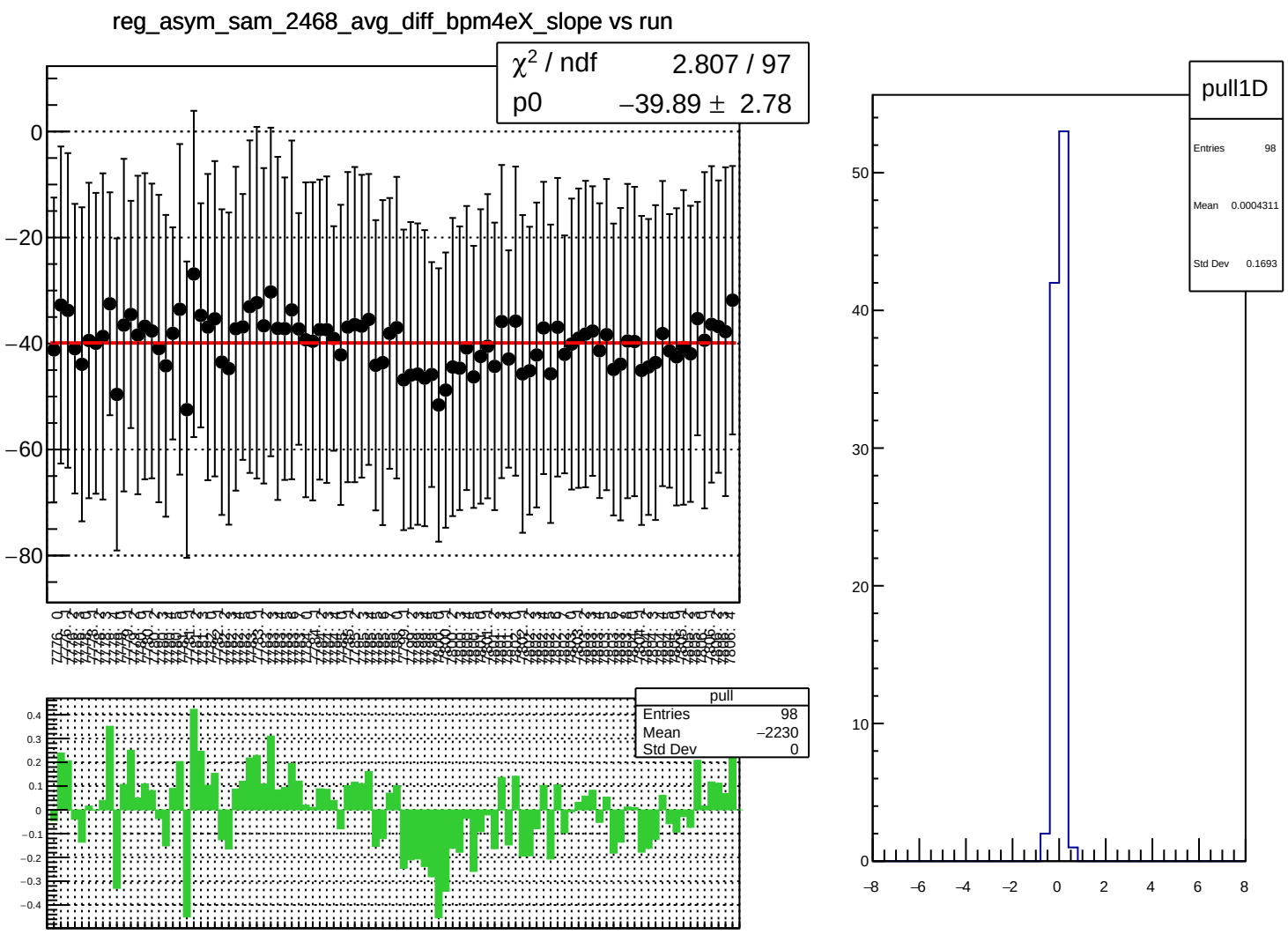

pull1D
Entries 98
Mean 0.002243
Std Dev 0.1817

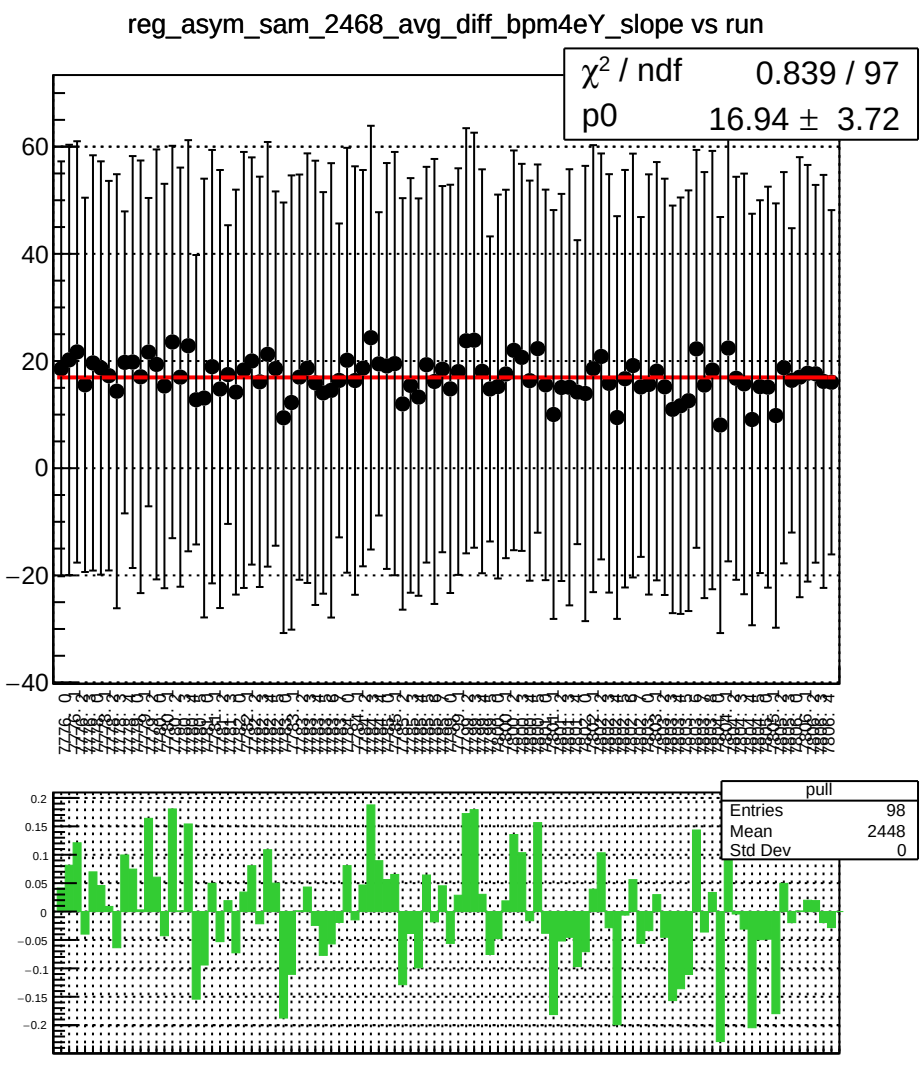

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 2.556 / 97
p0 −60.8 ± 3.198
−20
−40
−60
−80
−100
pull
Entries 98
Mean −9481
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

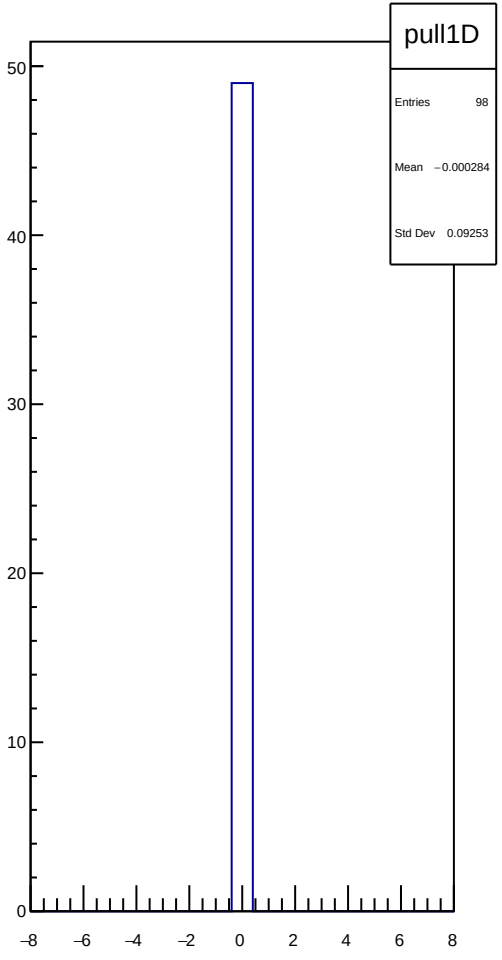

pull1D
Entries 98
Mean −0.0001487
Std Dev 0.1615
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

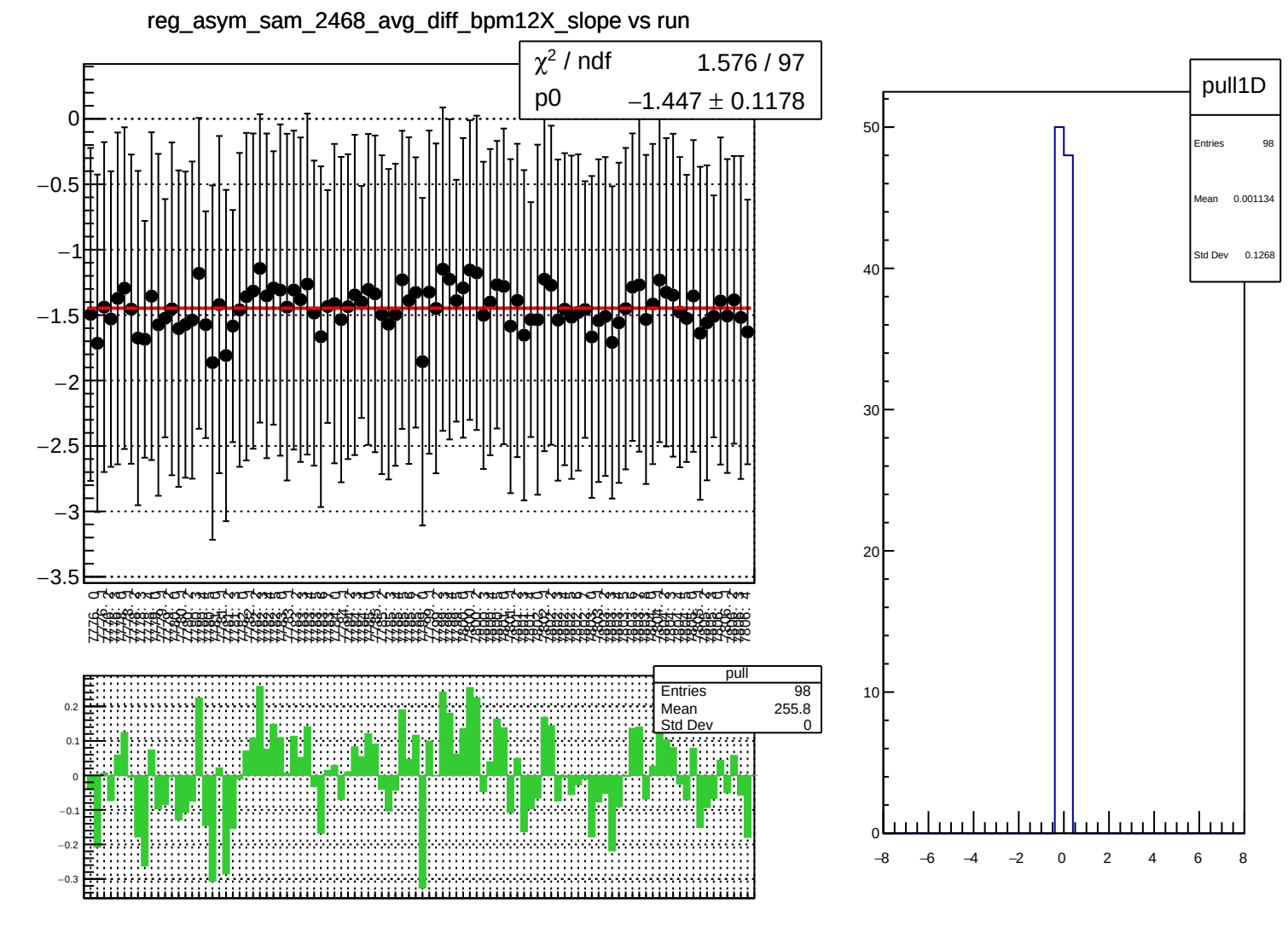

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.3 / 97
p0 21.04 ± 3.288
pull
Entries 98
Mean 2410
Std Dev 0

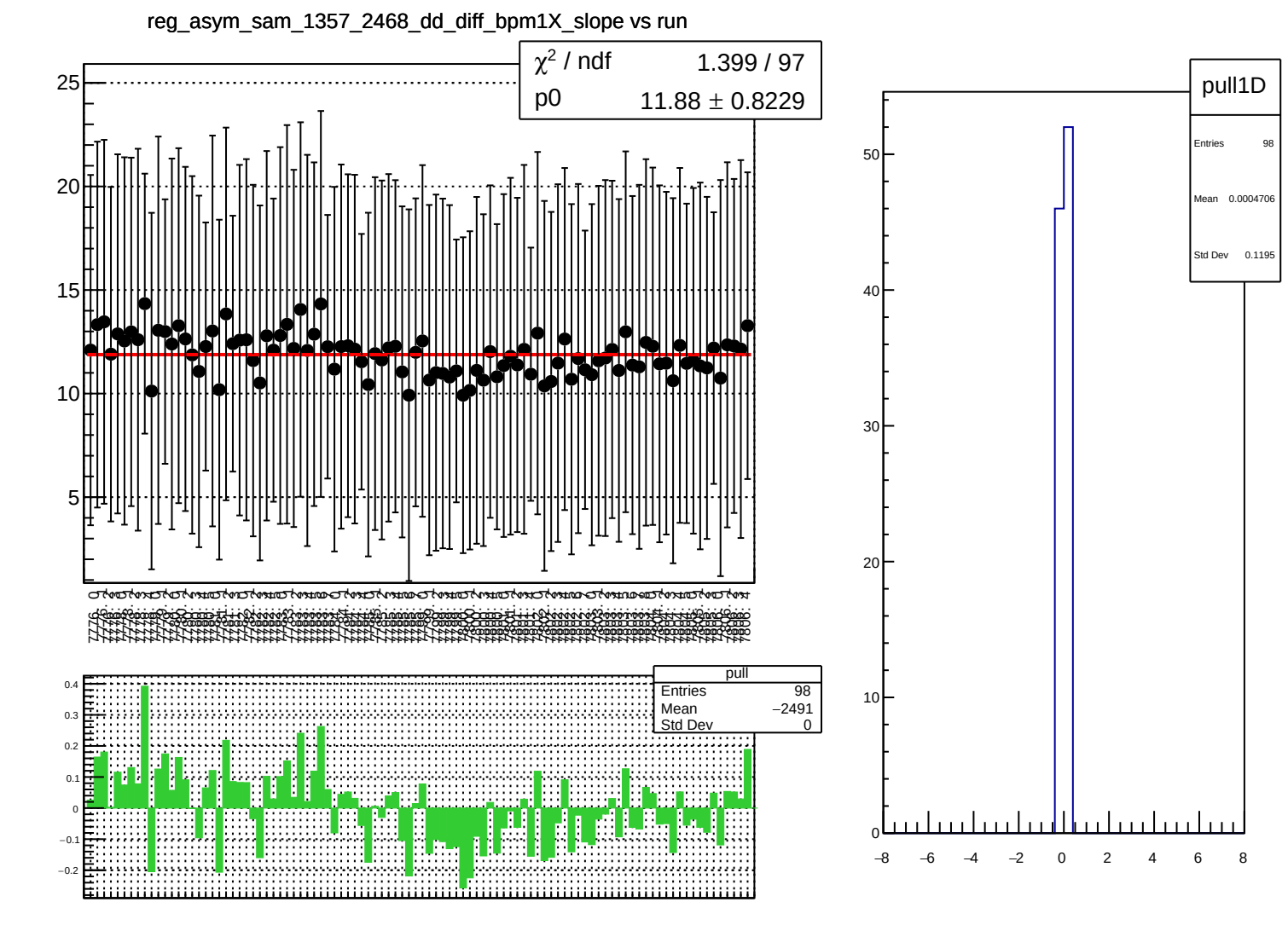

pull1D
Entries 98
Mean 0.0007067
Std Dev 0.1152

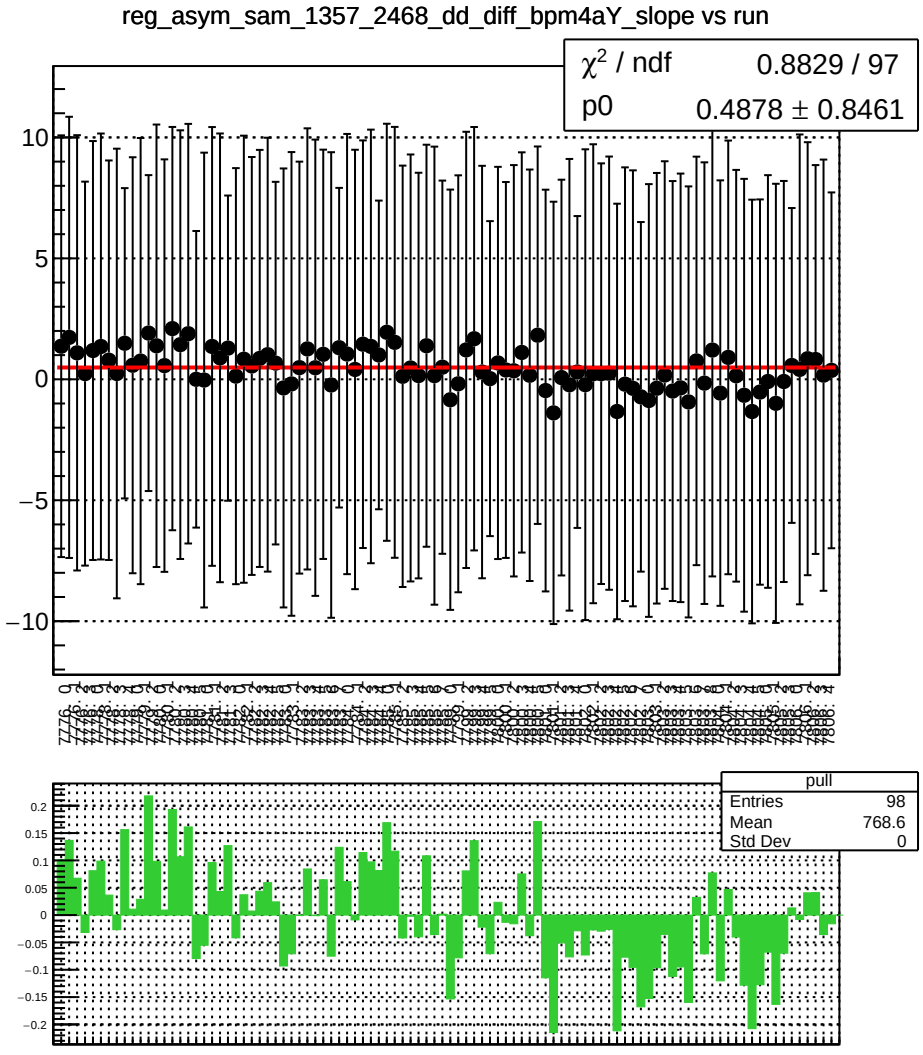

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.807 / 97
p0 −39.89 ± 2.78
0
−20
−40
−60
−80
pull
Entries 98
Mean −2230
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 98
Mean 0.0004311
Std Dev 0.1693
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

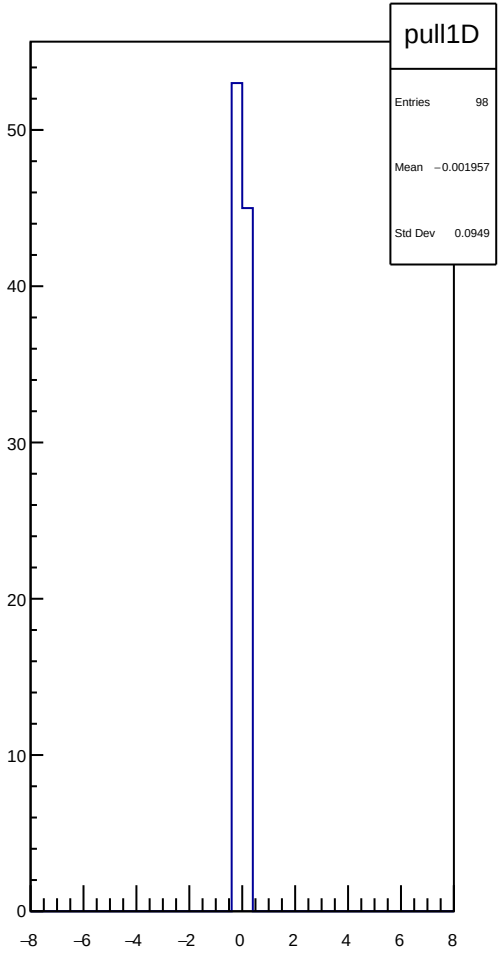

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.839 / 97
p0 16.94 ± 3.72
pull
Entries 98
Mean 2448
Std Dev 0

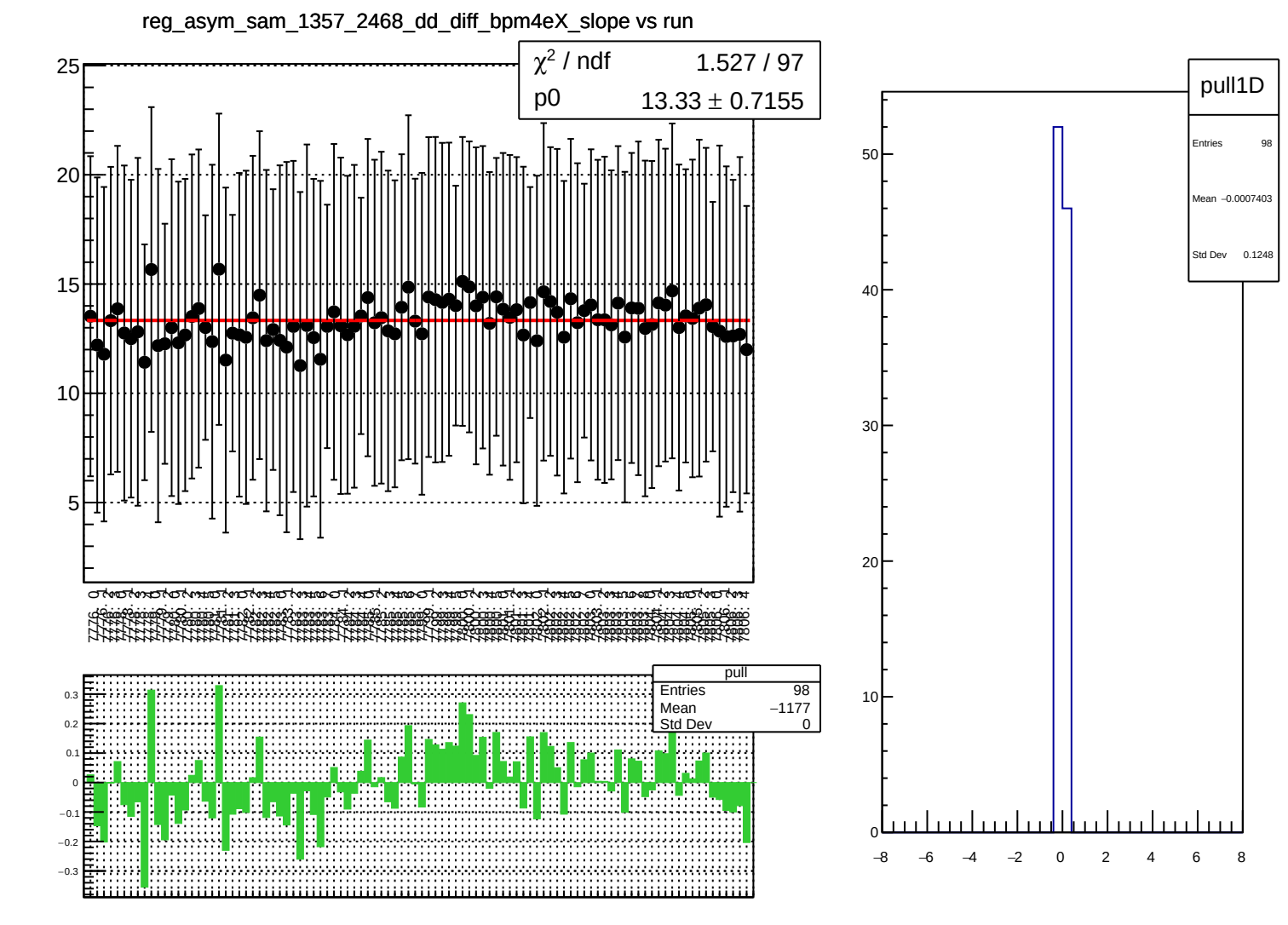

pull1D
Entries 98
Mean −0.000284
Std Dev 0.09253

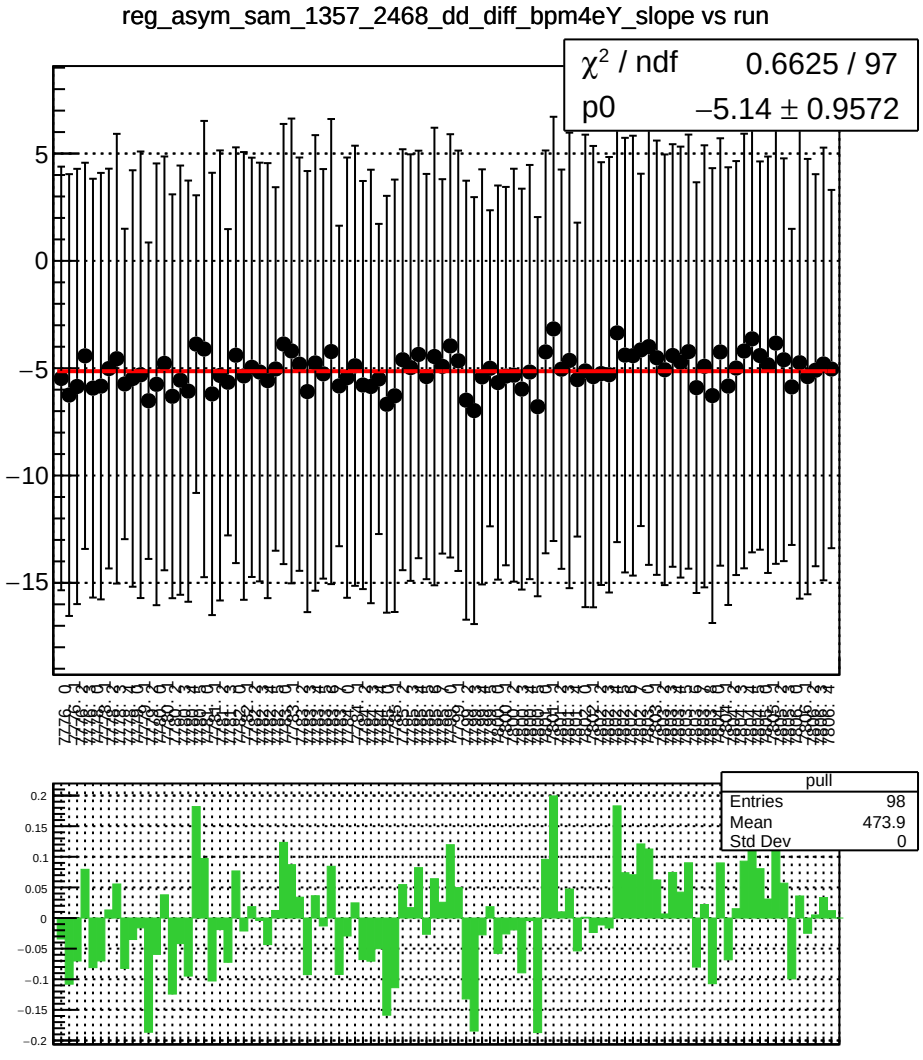

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.576 / 97
p0 −1.447 ± 0.1178
pull
Entries 98
Mean 255.8
Std Dev 0
pull1D
Entries 98
Mean 0.001134
Std Dev 0.1268

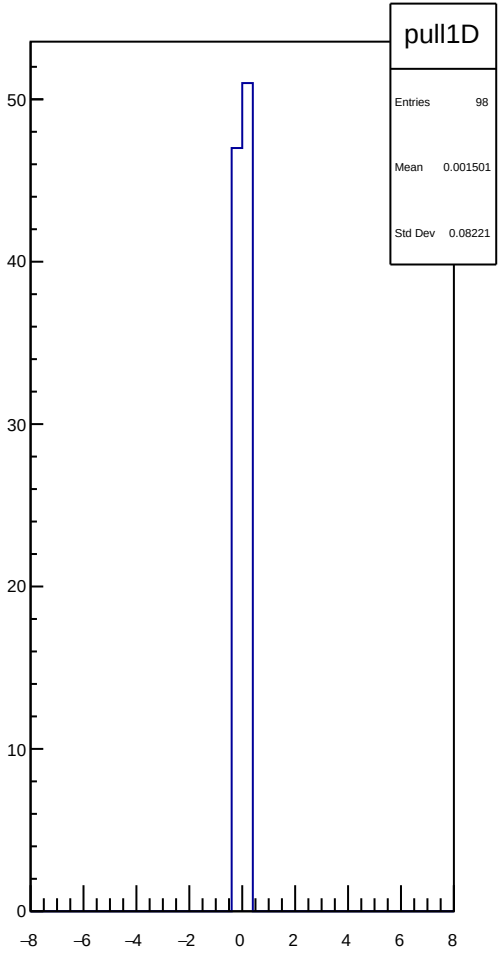

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 1.399 / 97
p0 11.88 ± 0.8229
pull
Entries 98
Mean −2491
Std Dev 0
pull1D
Entries 98
Mean 0.0004706
Std Dev 0.1195

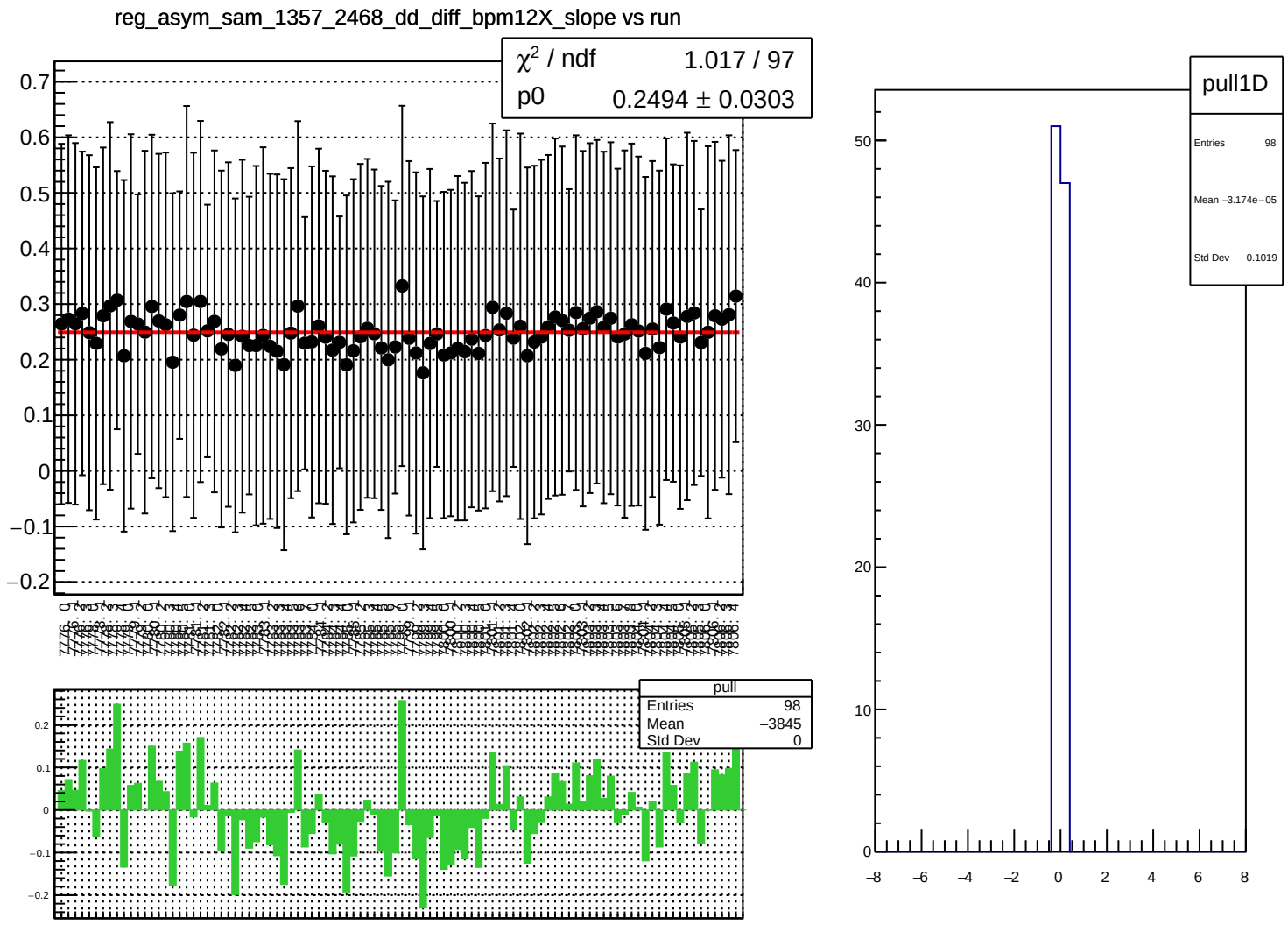

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8829 / 97
p0 0.4878 ± 0.8461
pull
Entries 98
Mean 768.6
Std Dev 0

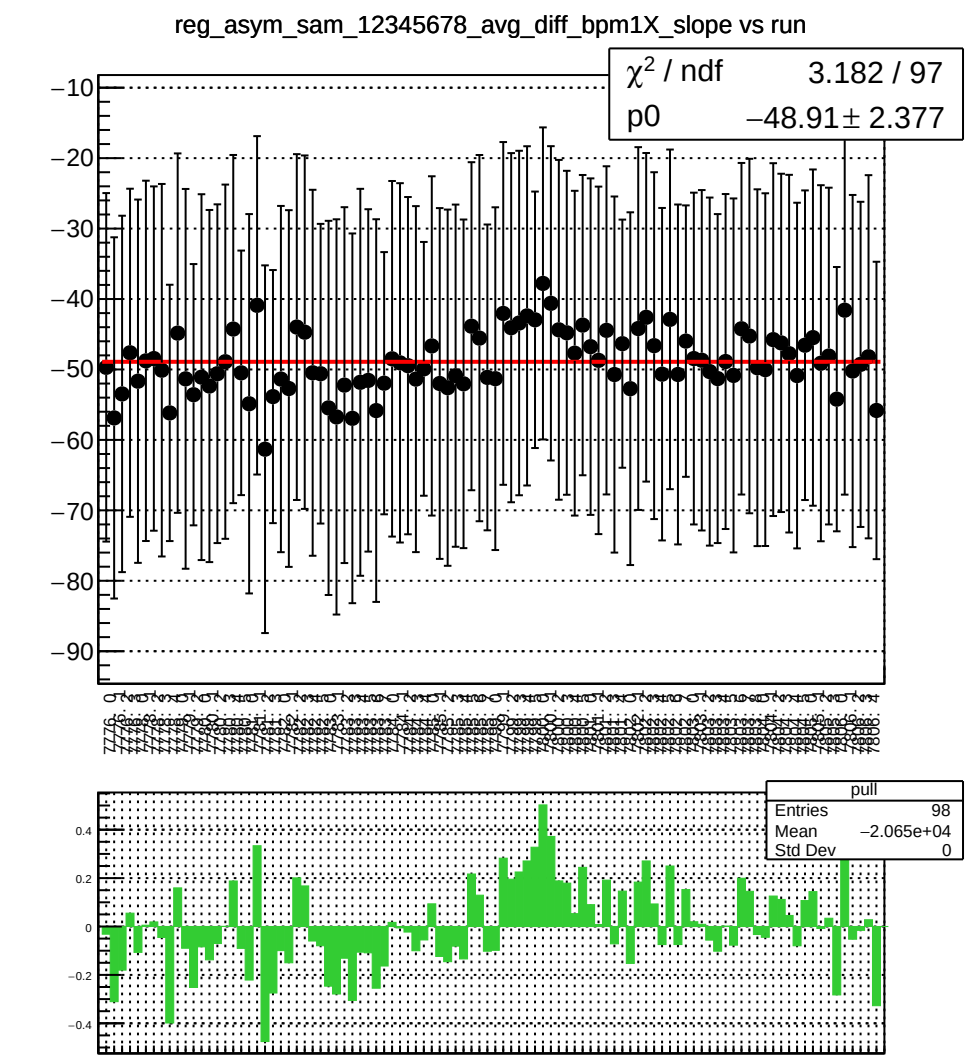

pull1D
Entries 98
Mean −0.001957
Std Dev 0.0949

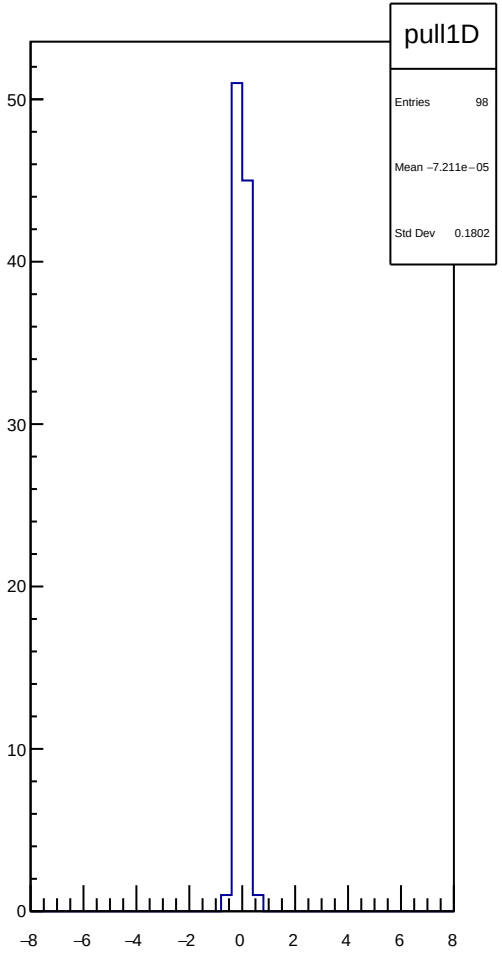

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.527 / 97
p0 13.33 ± 0.7155
pull
Entries 98
Mean −1177
Std Dev 0
pull1D
Entries 98
Mean −0.0007403
Std Dev 0.1248

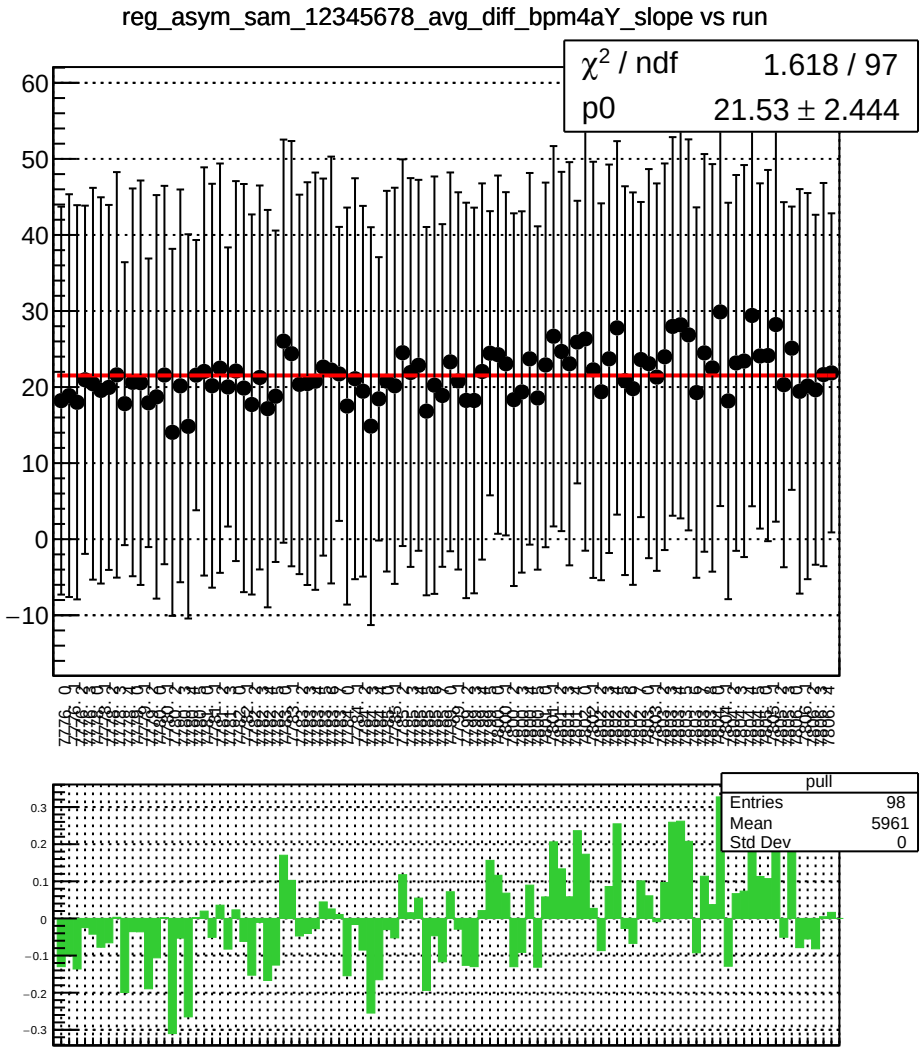

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6625 / 97
p0 −5.14 ± 0.9572
pull
Entries 98
Mean 473.9
Std Dev 0

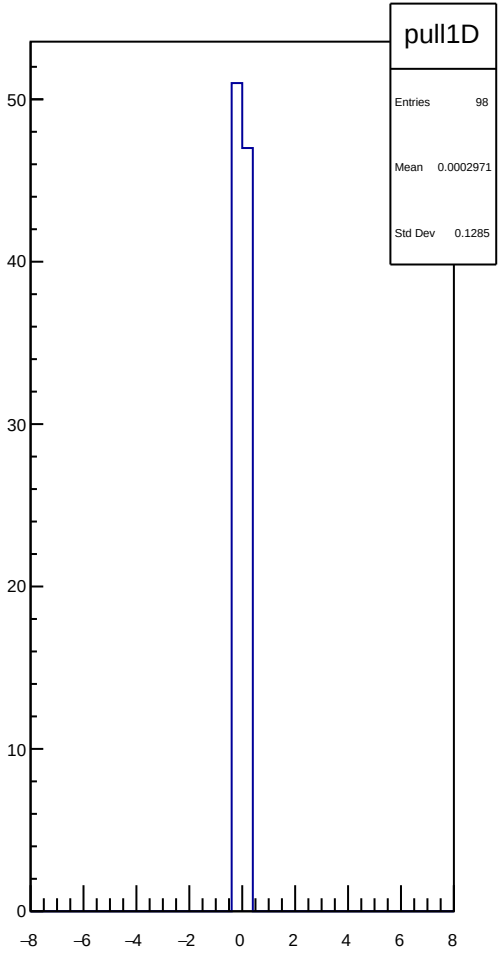

pull1D
Entries 98
Mean 0.001501
Std Dev 0.08221

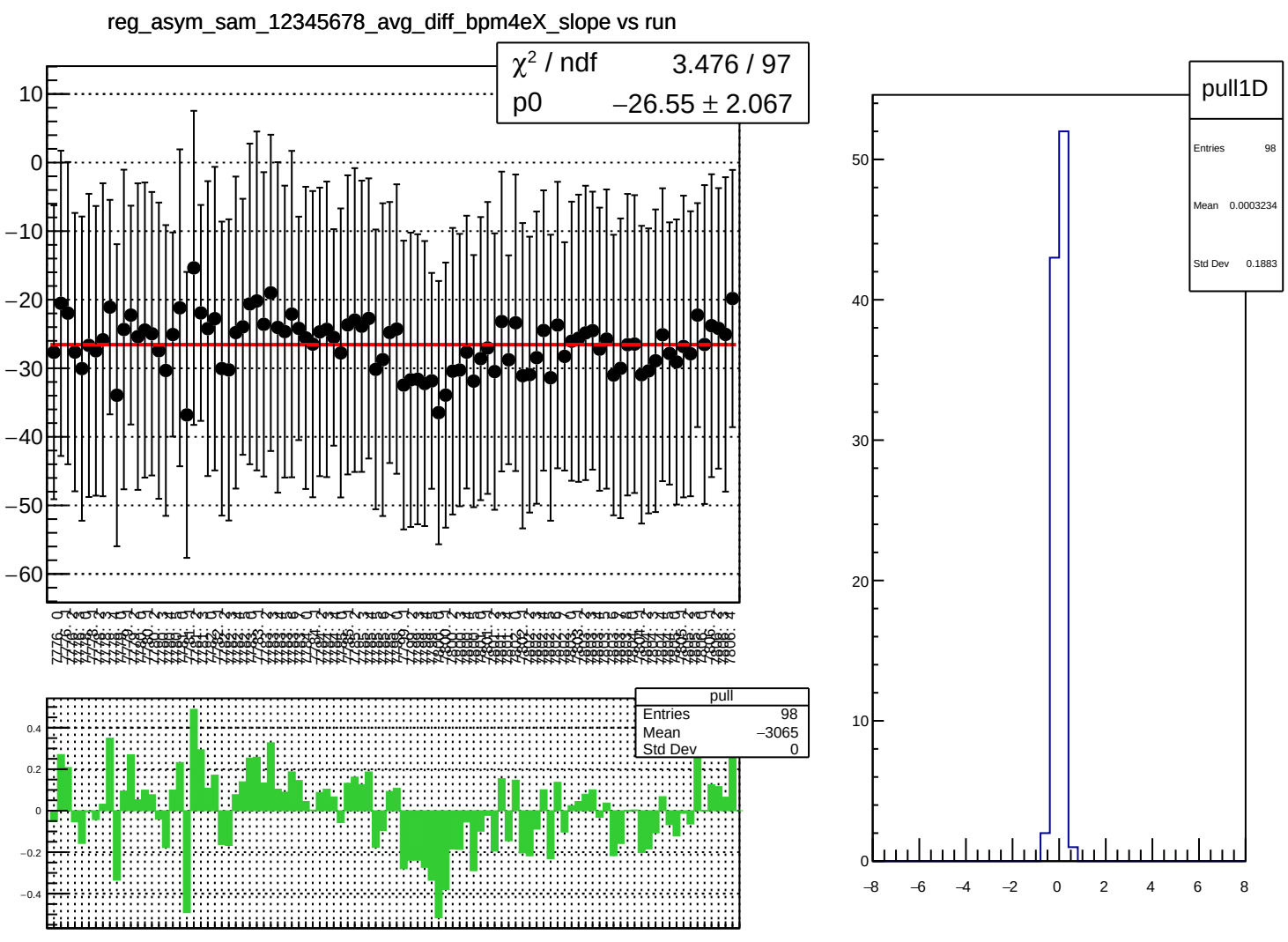

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.017 / 97
p0 0.2494 ± 0.0303
pull
Entries 98
Mean −3845
Std Dev 0
pull1D
Entries 98
Mean −3.174e−05
Std Dev 0.1019

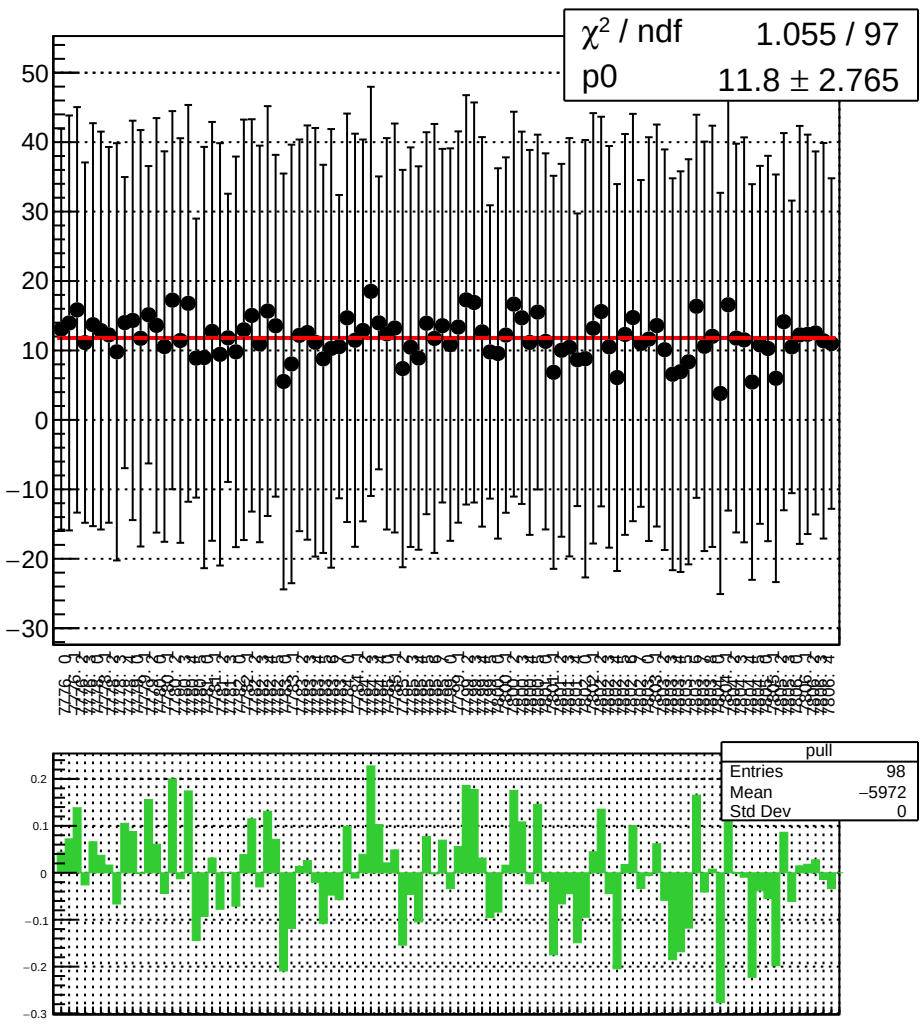

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 3.182 / 97
p0 −48.91± 2.377
pull
Entries 98
Mean −2.065e+04
Std Dev 0

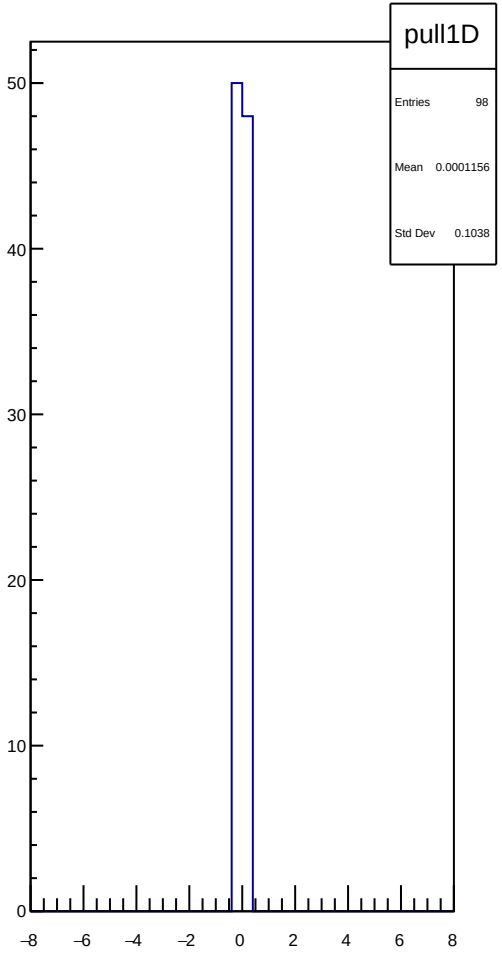

pull1D
Entries 98
Mean −7.211e−05
Std Dev 0.1802

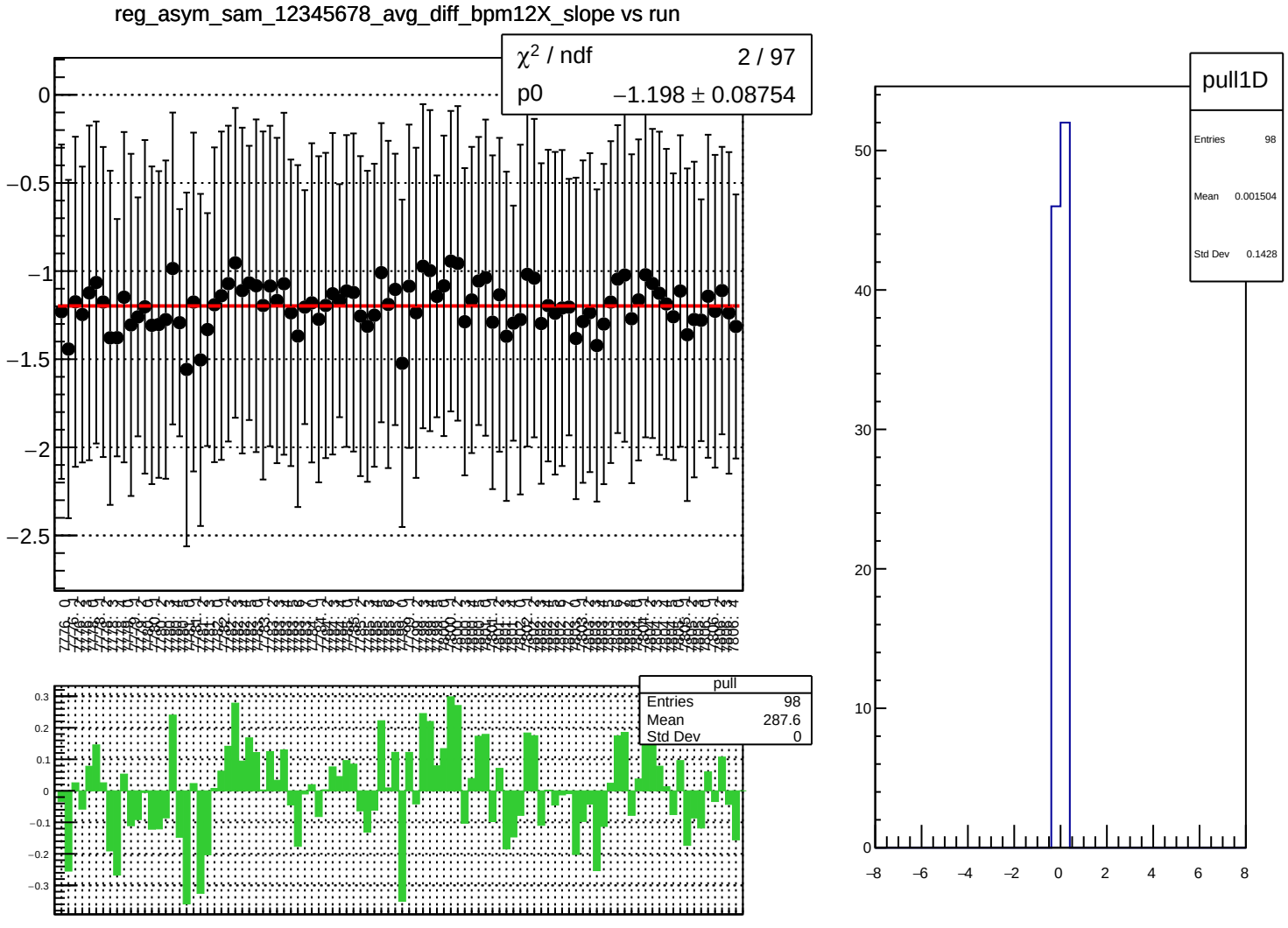

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.618 / 97
p0 21.53 ± 2.444
pull
Entries 98
Mean 5961
Std Dev 0

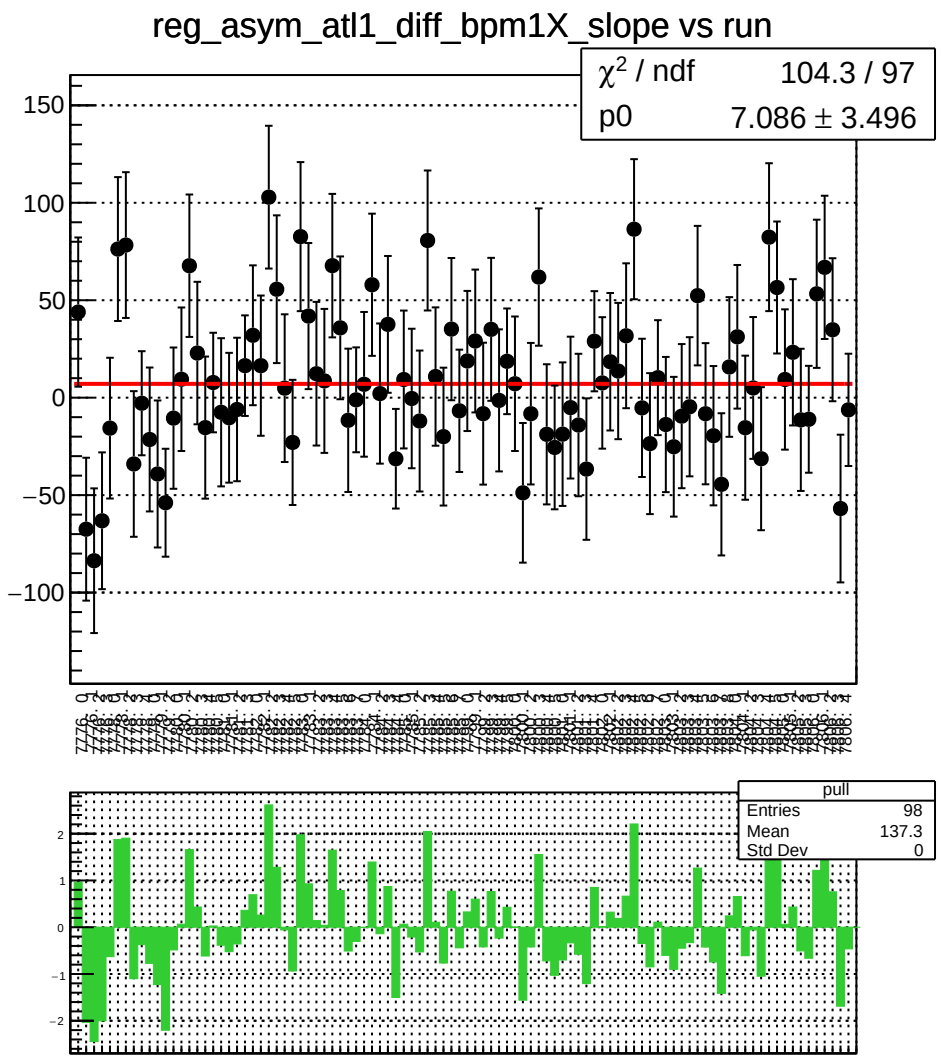

pull1D
Entries 98
Mean 0.0002971
Std Dev 0.1285

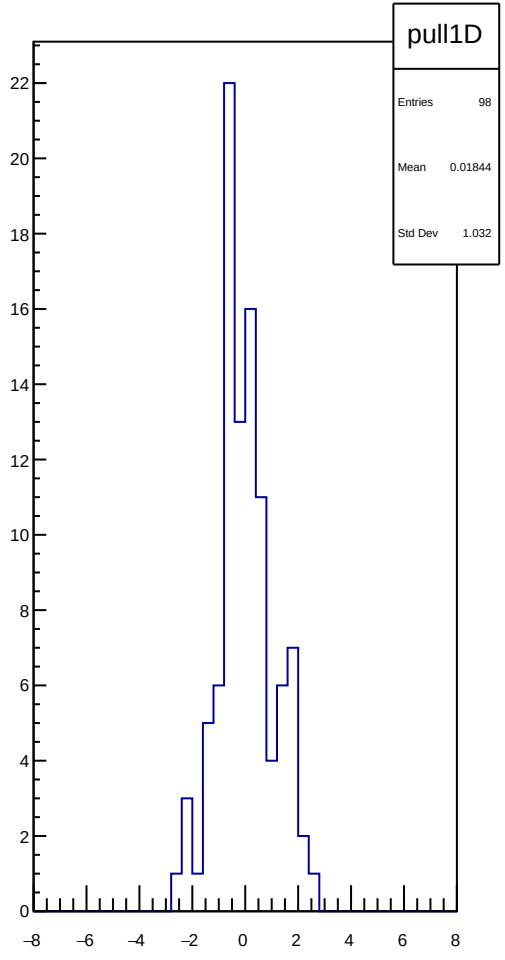

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.476 / 97
p0 −26.55 ± 2.067
pull
Entries 98
Mean −3065
Std Dev 0
pull1D
Entries 98
Mean 0.0003234
Std Dev 0.1883

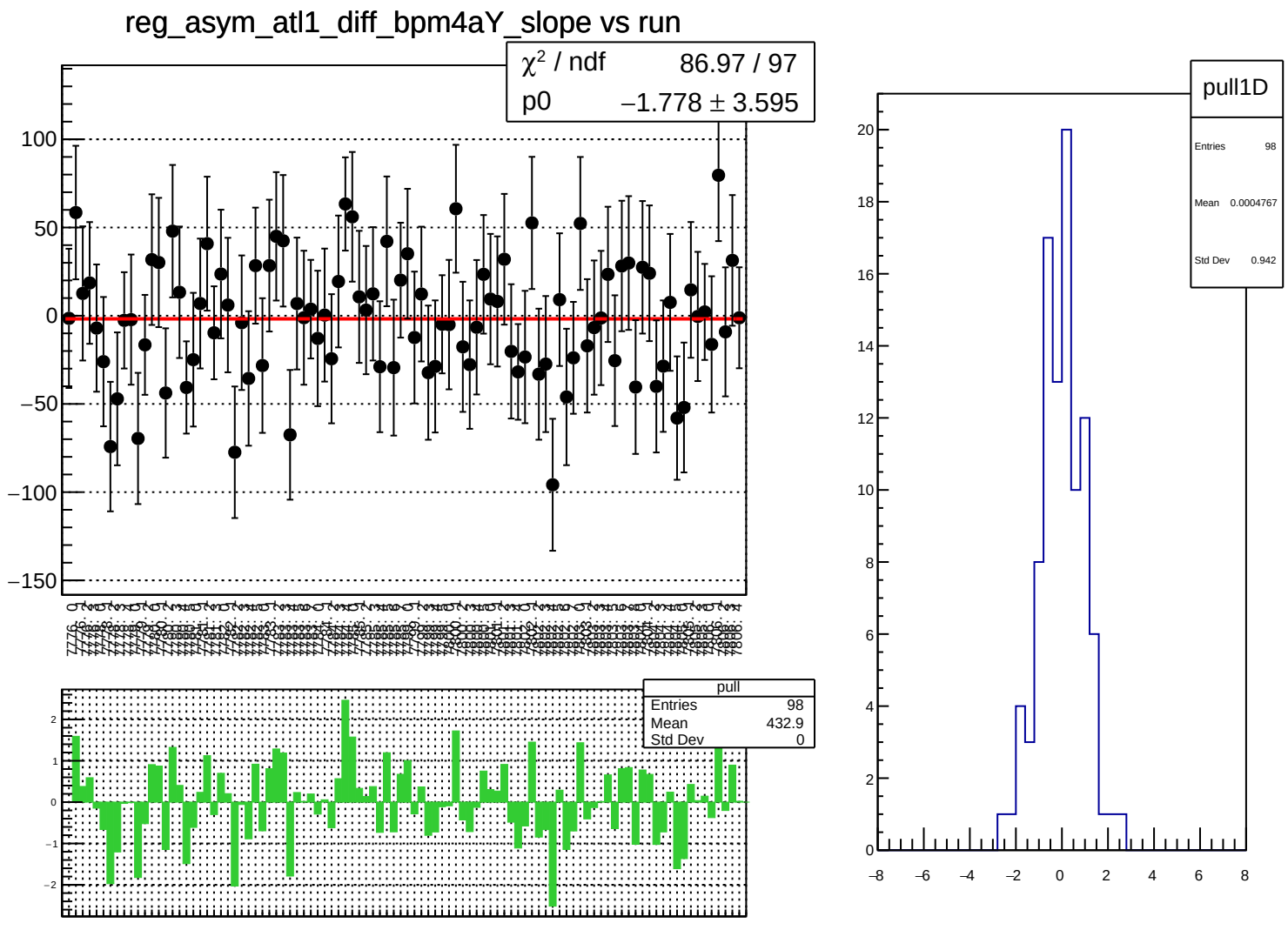

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.055 / 97
p0 11.8 ± 2.765
pull
Entries 98
Mean −5972
Std Dev 0

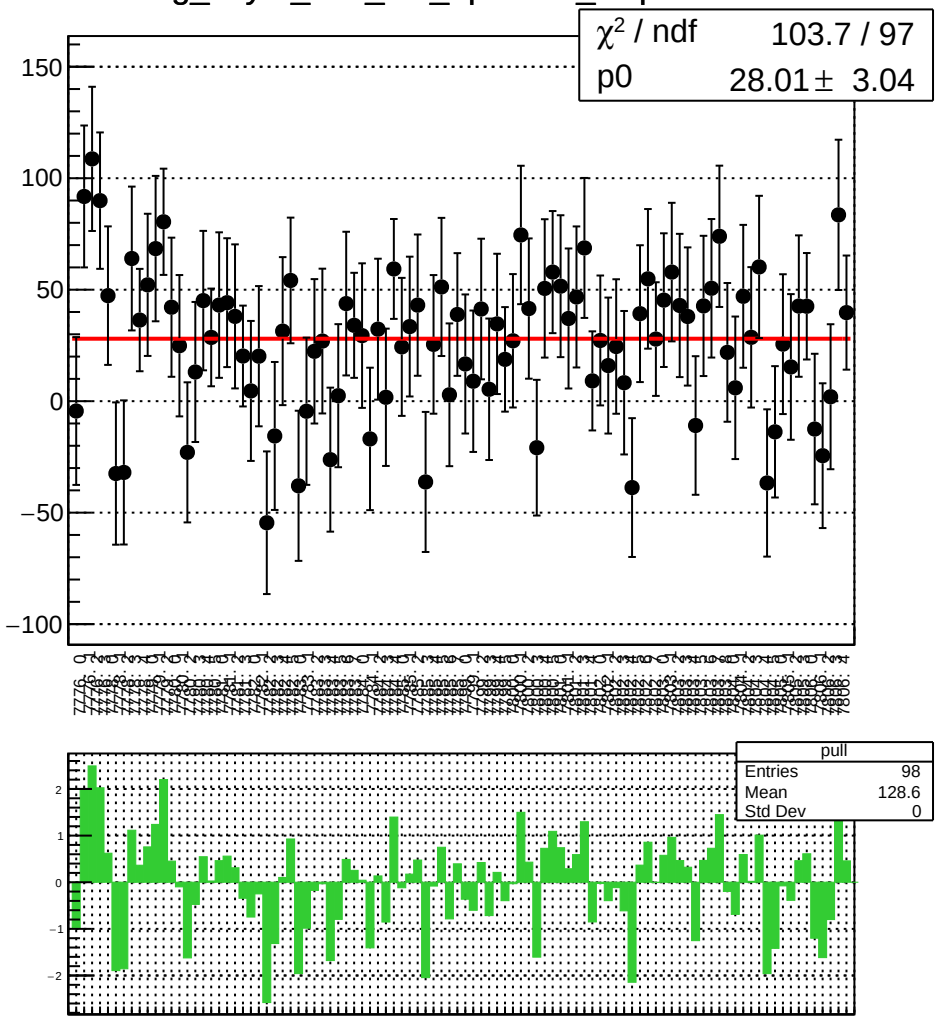

pull1D
Entries 98
Mean 0.0001156
Std Dev 0.1038

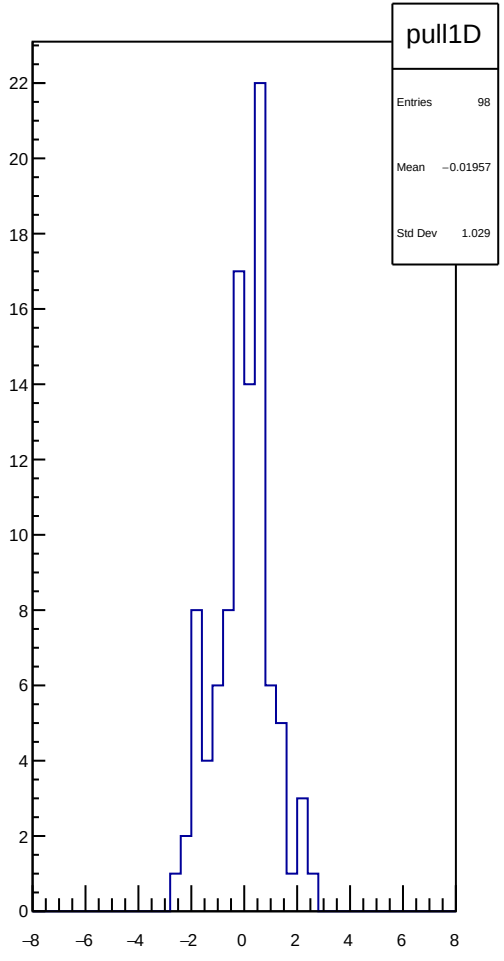

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 2 / 97
p0 −1.198 ± 0.08754
pull
Entries 98
Mean 287.6
Std Dev 0
pull1D
Entries 98
Mean 0.001504
Std Dev 0.1428

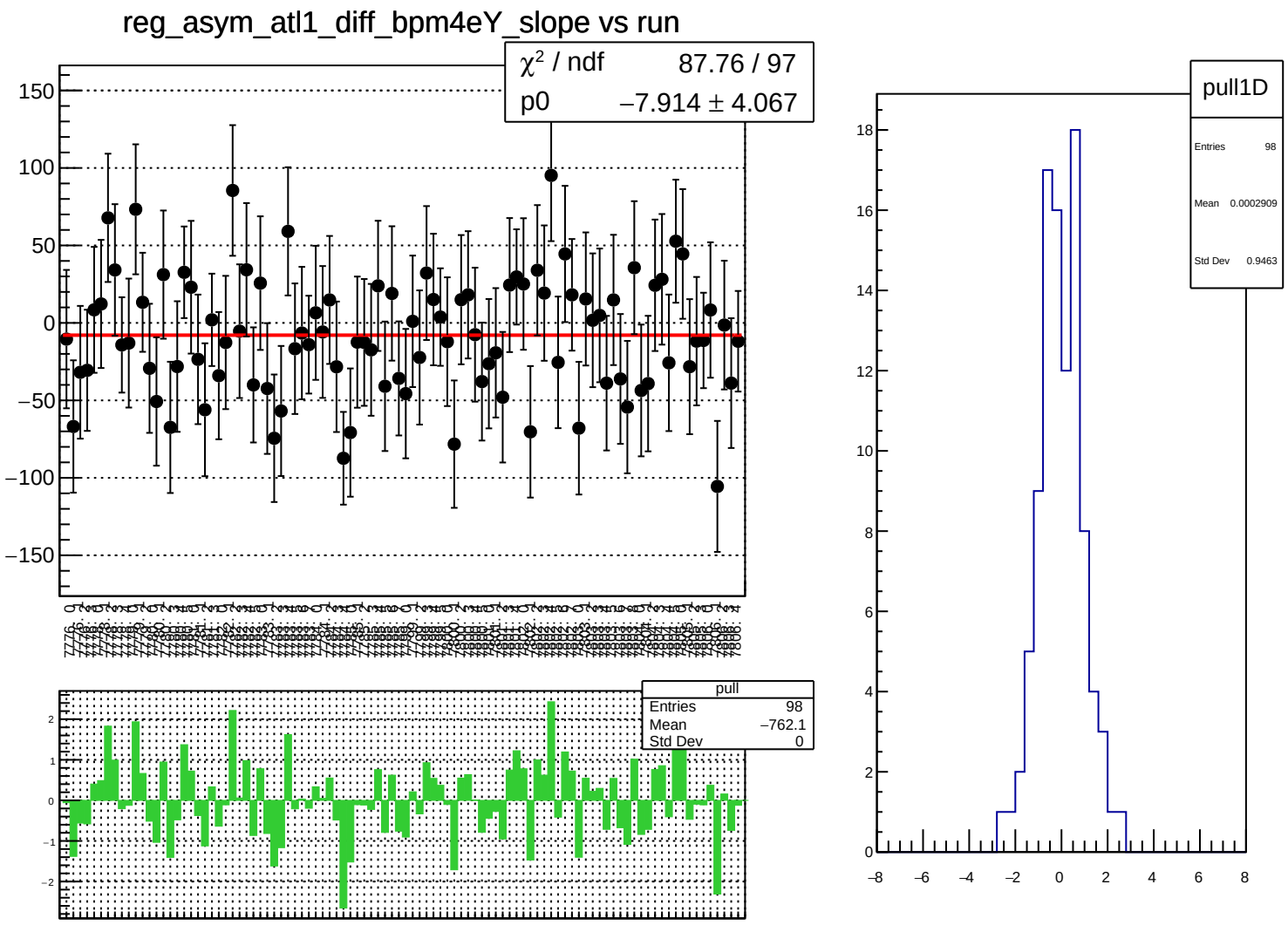

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 104.3 / 97
p0 7.086 ± 3.496
150
100
50
0
−50
−100
pull
Entries 98
Mean 137.3
Std Dev 0
2
1
0
−1
−2

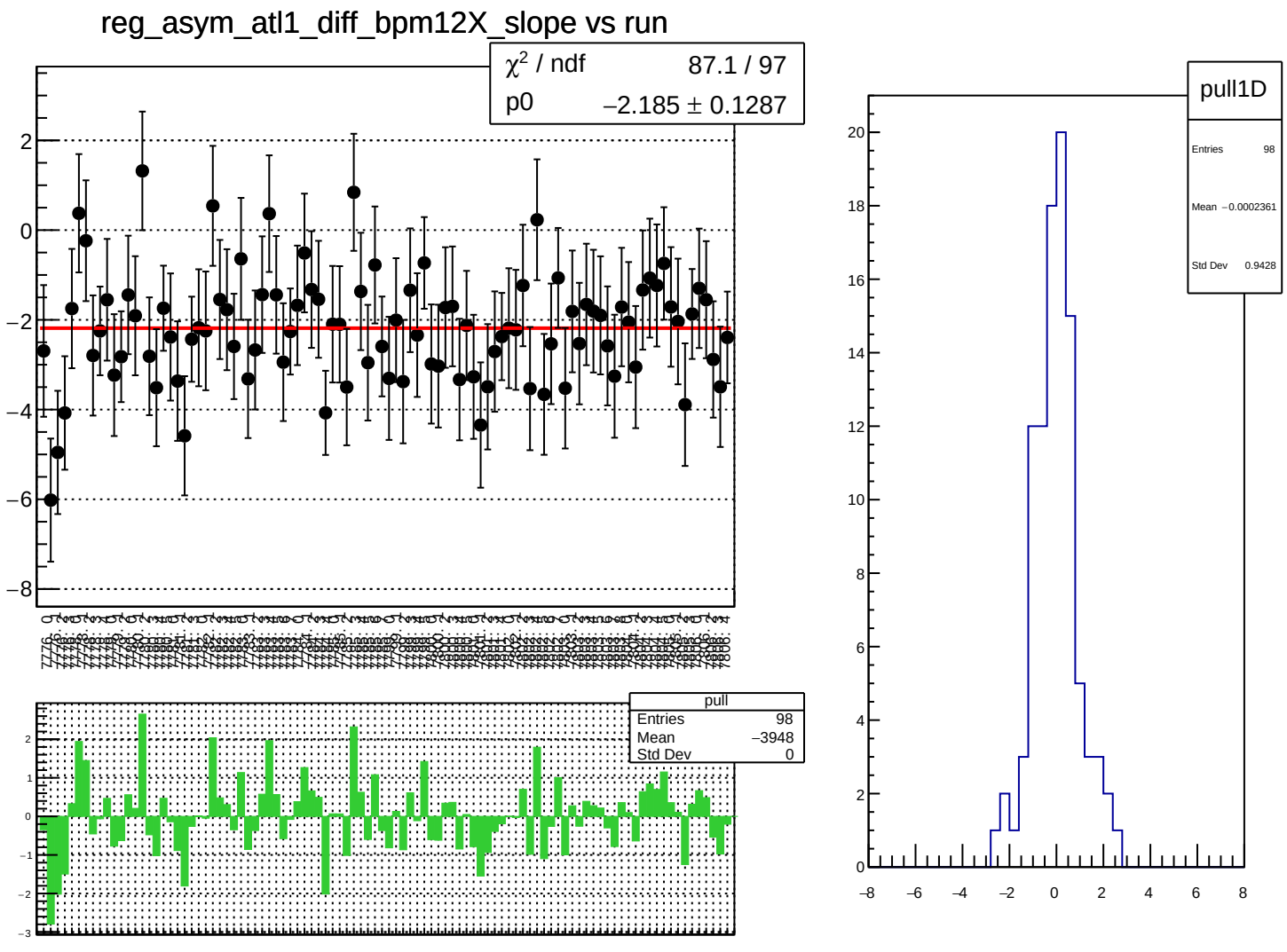

pull1D
Entries 98
Mean 0.01844
Std Dev 1.032
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

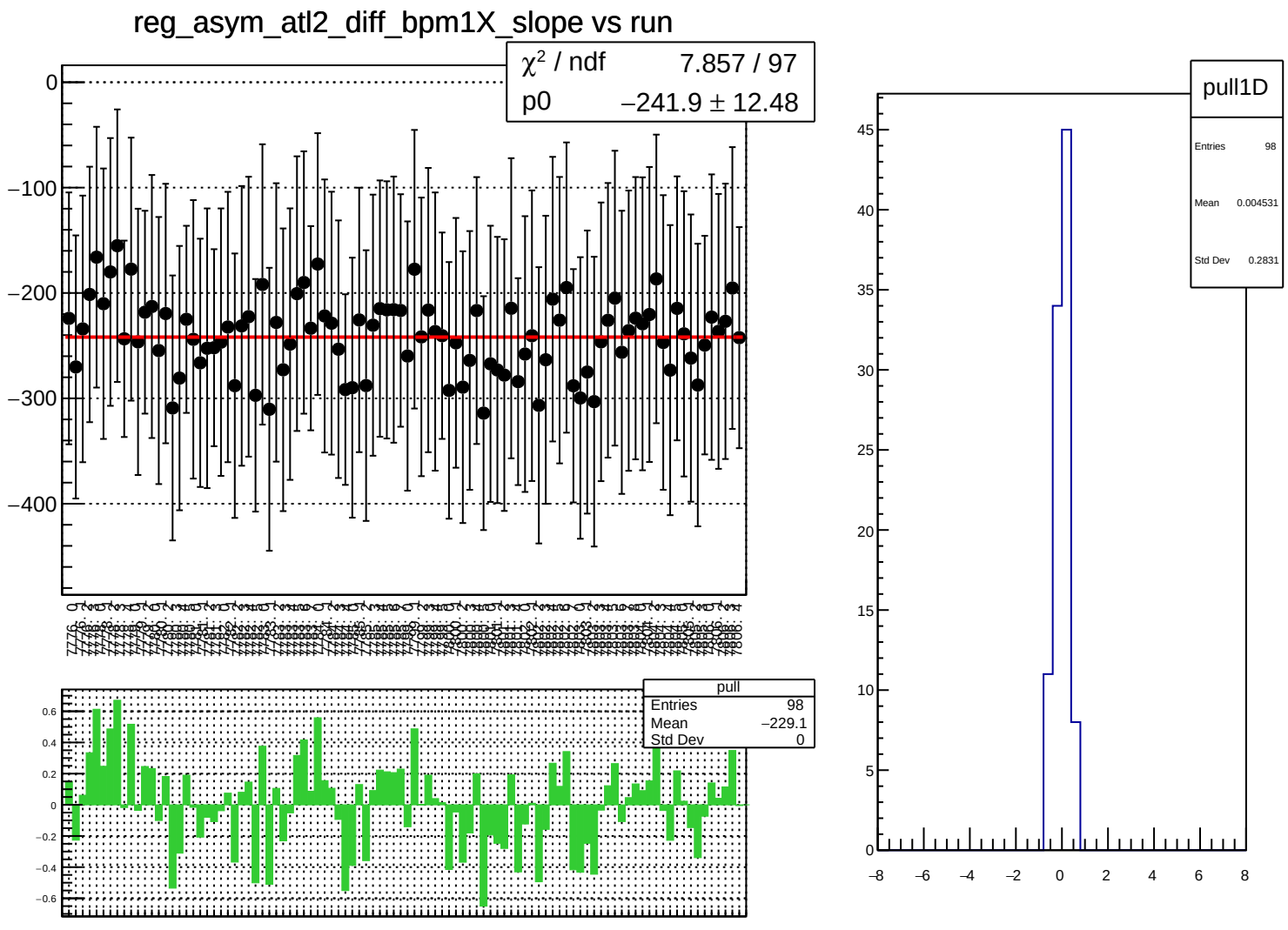

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 86.97 / 97
p0 −1.778 ± 3.595
pull
Entries 98
Mean 432.9
Std Dev 0
pull1D
Entries 98
Mean 0.0004767
Std Dev 0.942

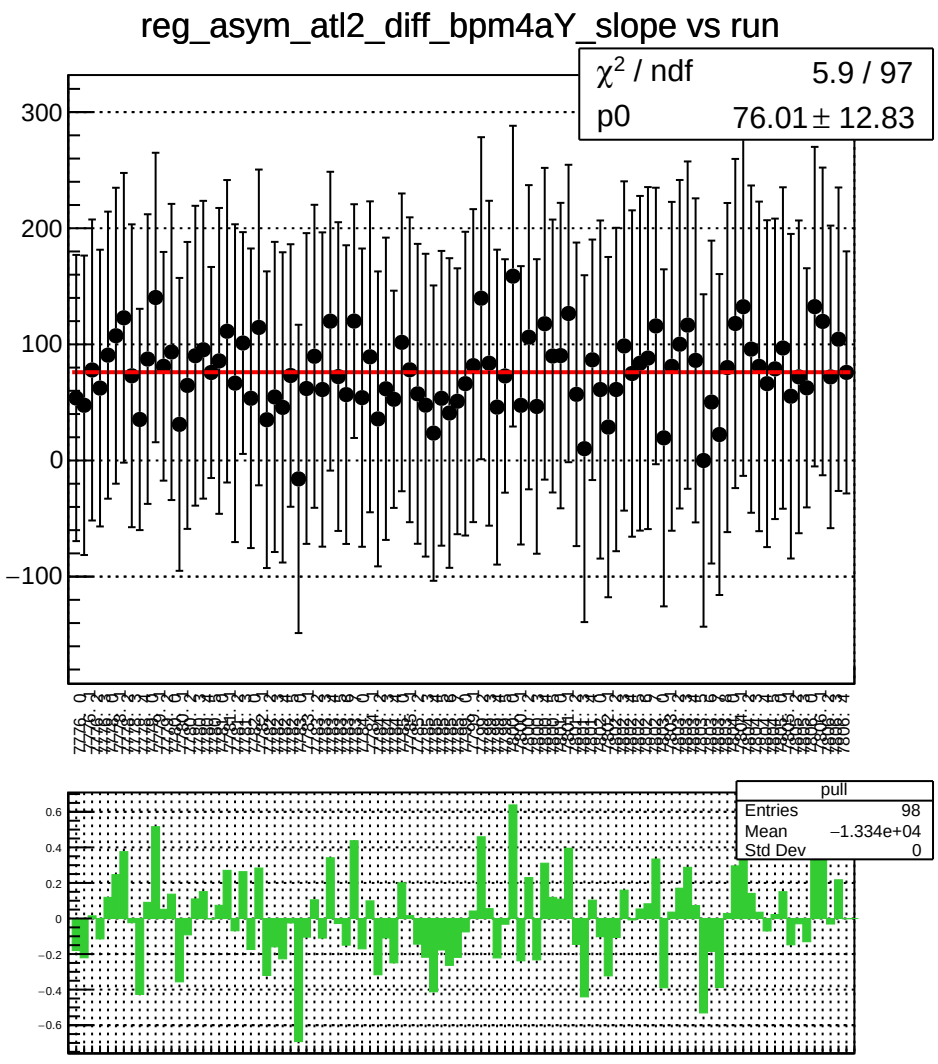

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 103.7 / 97
p0 28.01 ± 3.04
150
100
50
0
−50
−100
pull
Entries 98
Mean 128.6
Std Dev 0
2
1
0
−1
−2

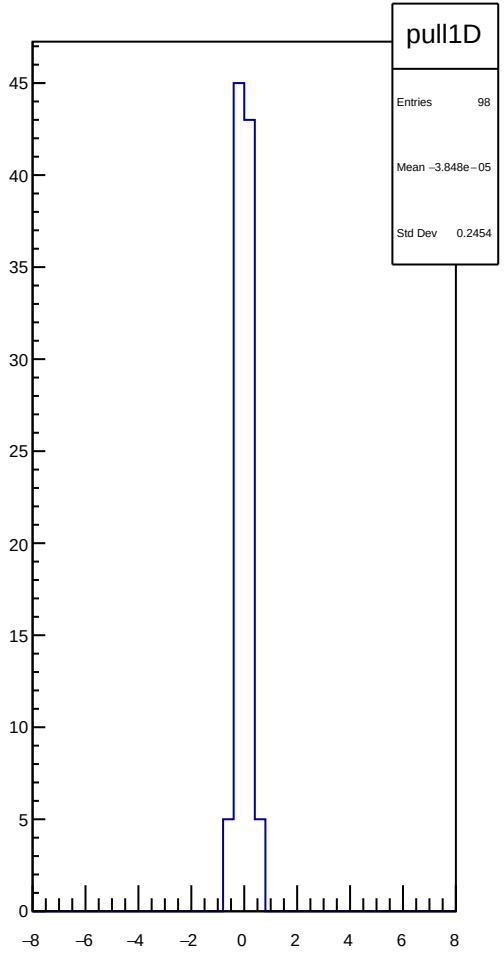

pull1D
Entries 98
Mean −0.01957
Std Dev 1.029
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

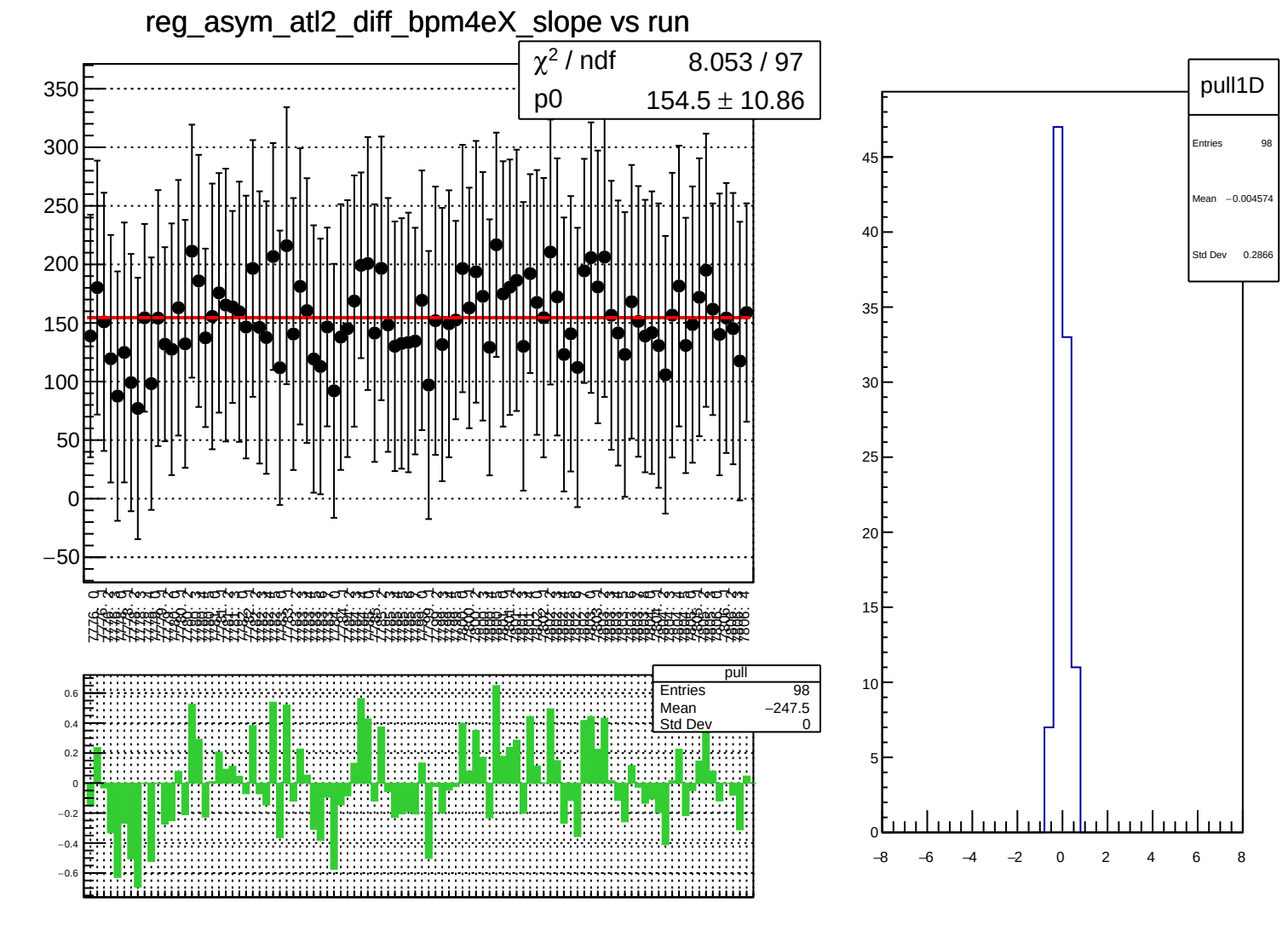

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 87.76 / 97
p0 −7.914 ± 4.067
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −762.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.0002909
Std Dev 0.9463
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

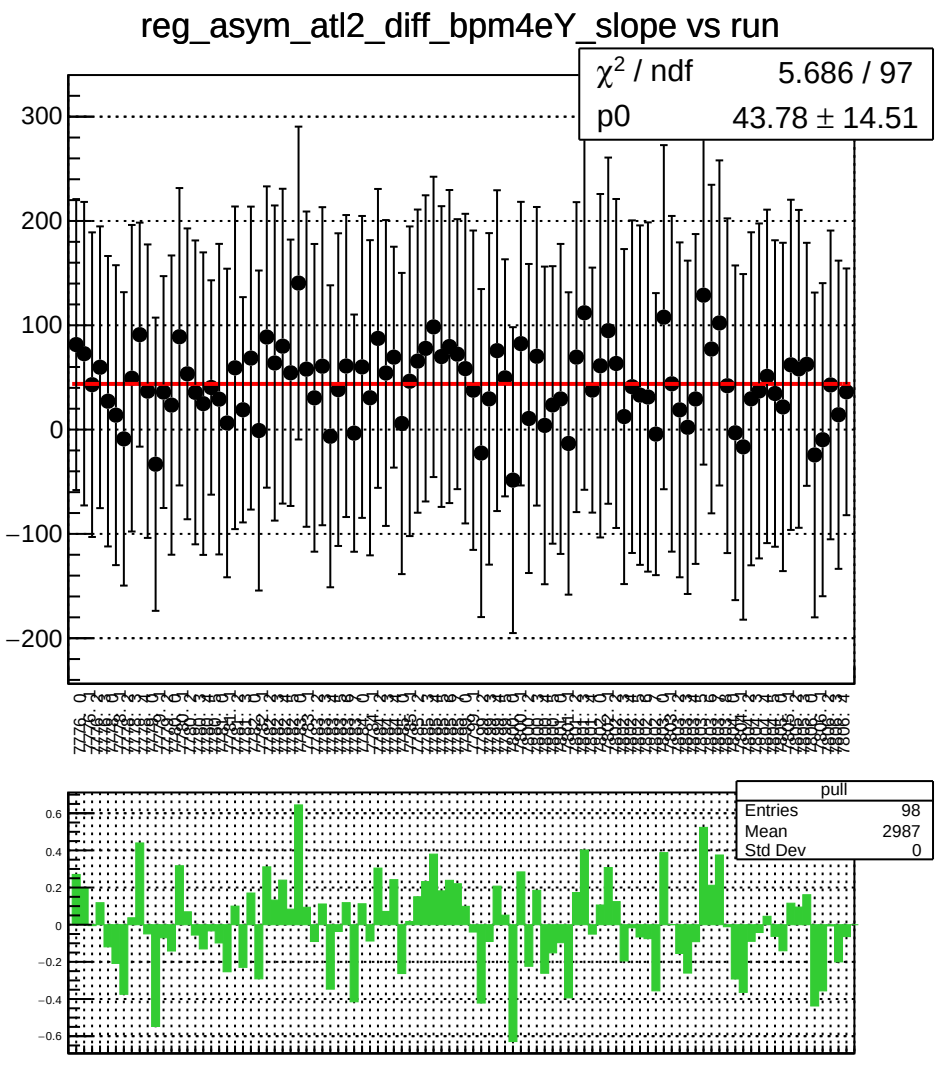

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 87.1 / 97
p0 −2.185 ± 0.1287
pull
Entries 98
Mean −3948
Std Dev 0
pull1D
Entries 98
Mean −0.0002361
Std Dev 0.9428

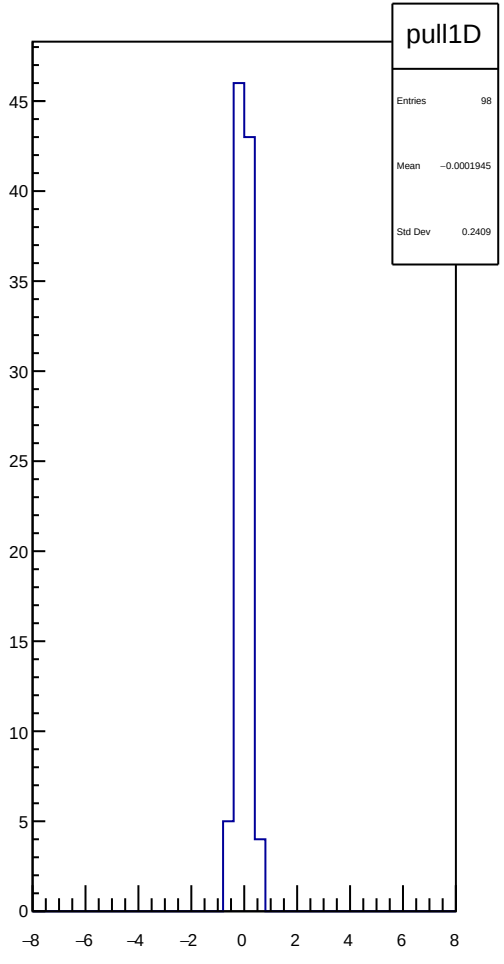

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 7.857 / 97
p0 −241.9 ± 12.48
0
−100
−200
−300
−400
pull
Entries 98
Mean −229.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean 0.004531
Std Dev 0.2831
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

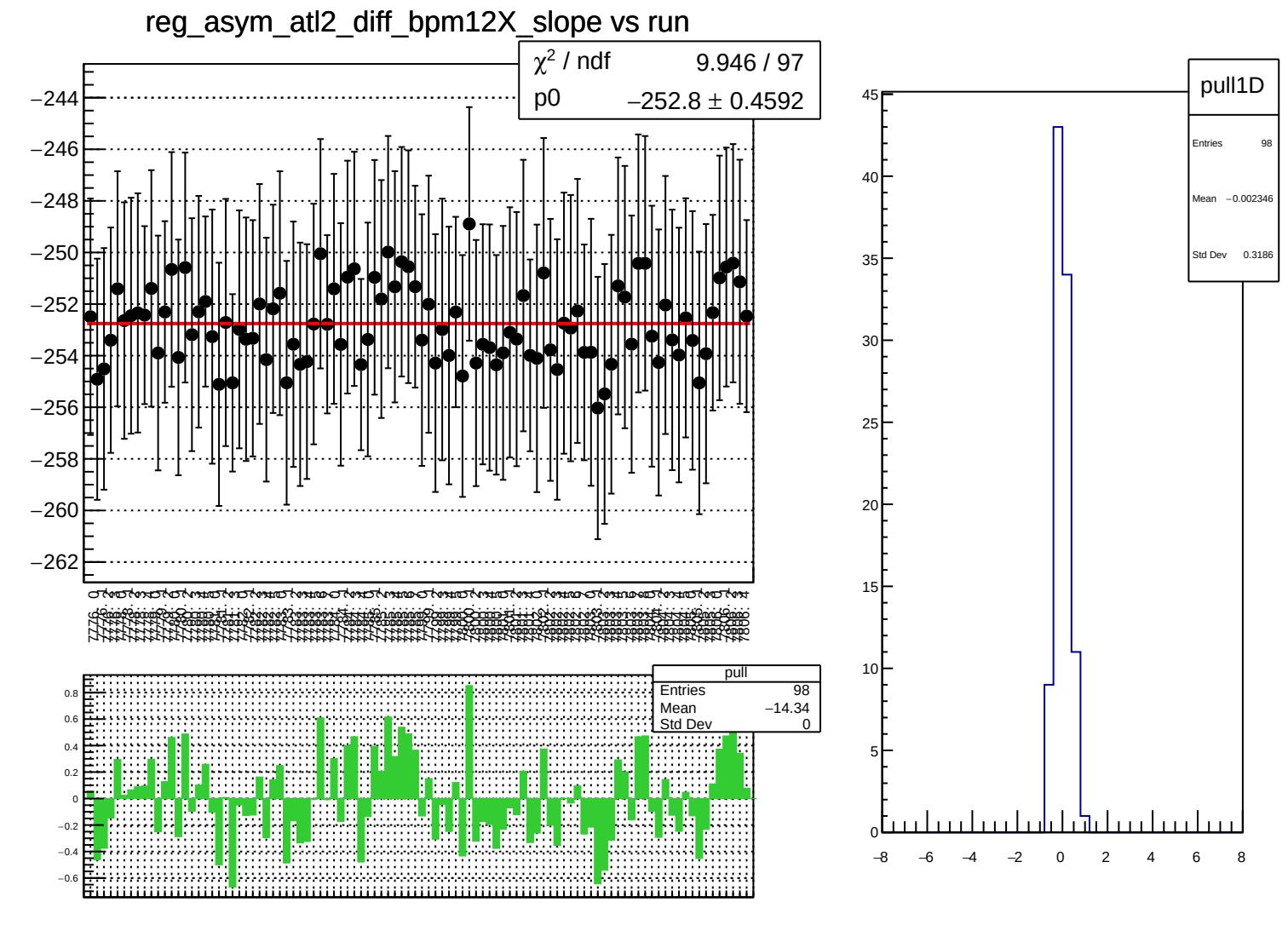

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.9 / 97
p0 76.01 ± 12.83
300
200
100
0
−100
pull
Entries 98
Mean −1.334e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

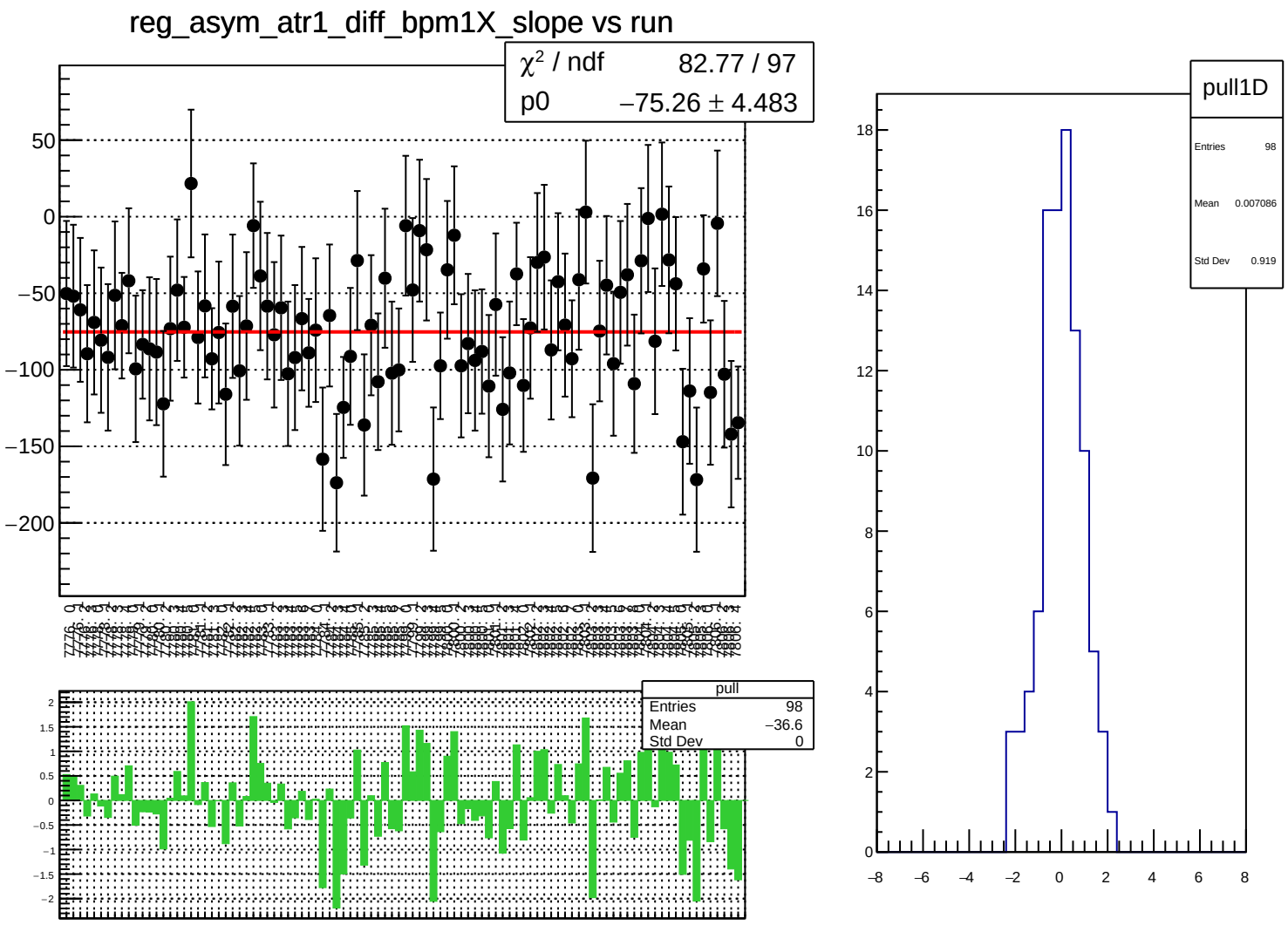

pull1D
Entries 98
Mean −3.848e−05
Std Dev 0.2454
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

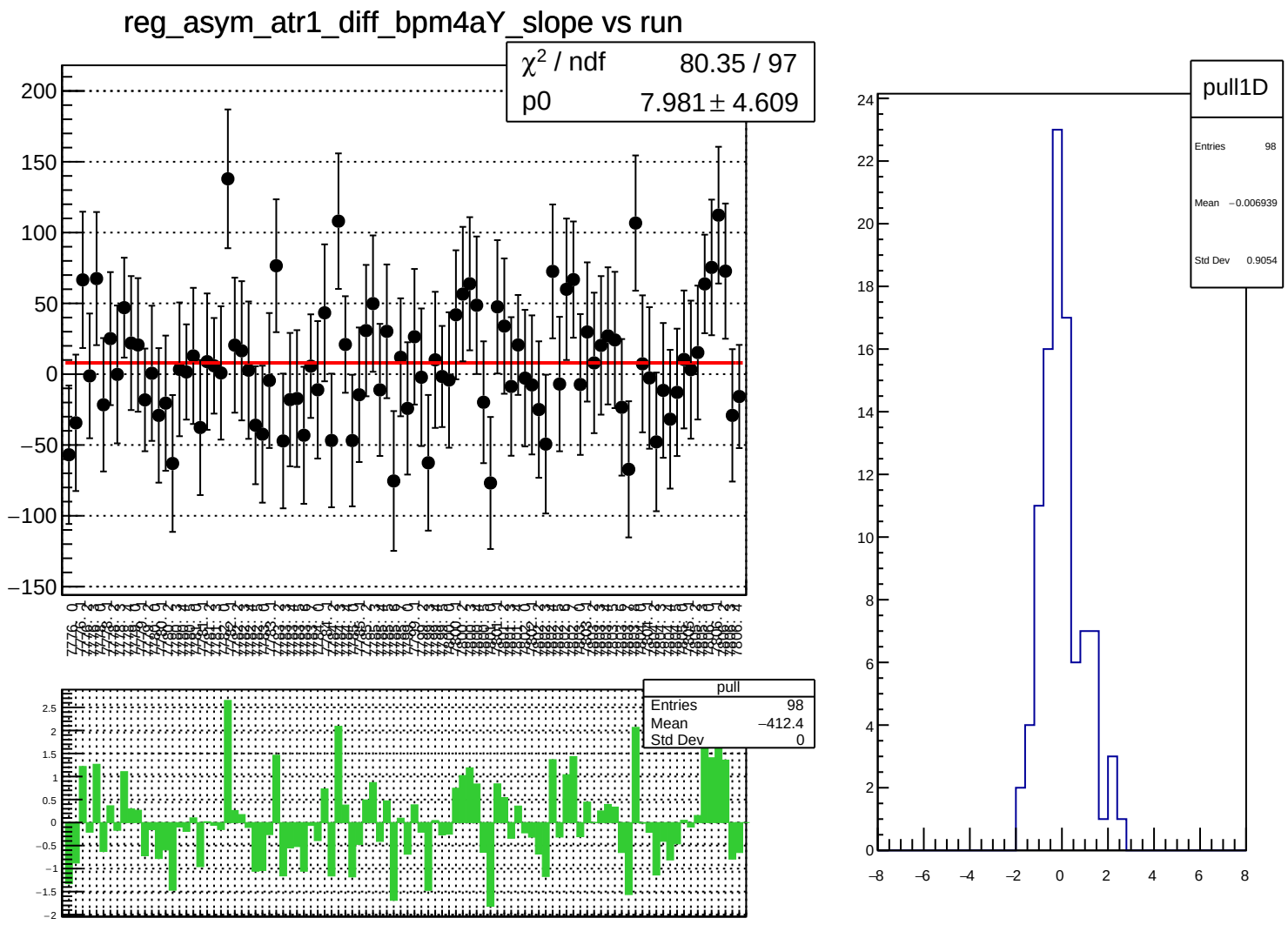

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 8.053 / 97
p0 154.5 ± 10.86
pull
Entries 98
Mean −247.5
Std Dev 0
pull1D
Entries 98
Mean −0.004574
Std Dev 0.2866

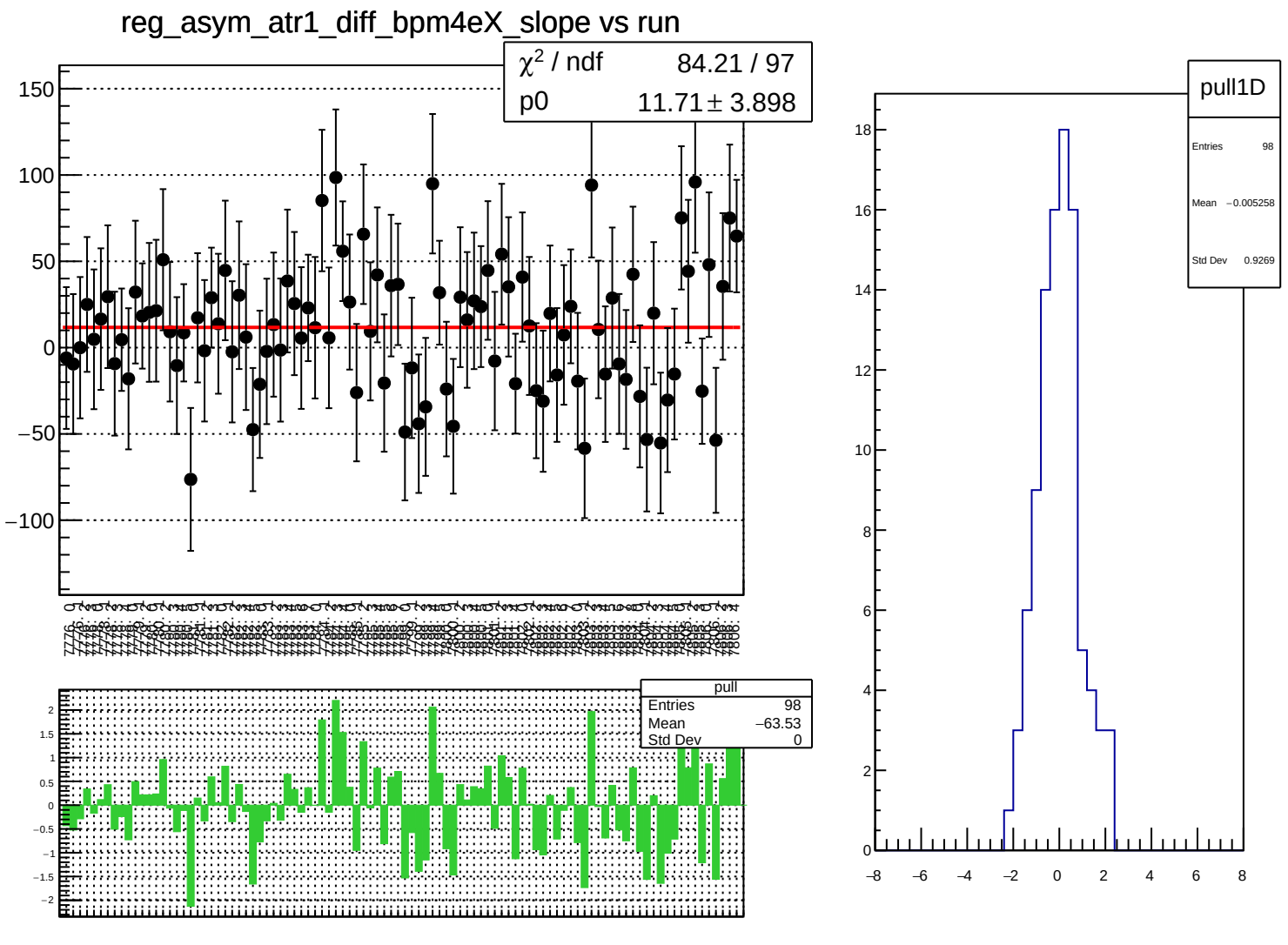

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.686 / 97
p0 43.78 ± 14.51
300
200
100
0
−100
−200
pull
Entries 98
Mean 2987
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

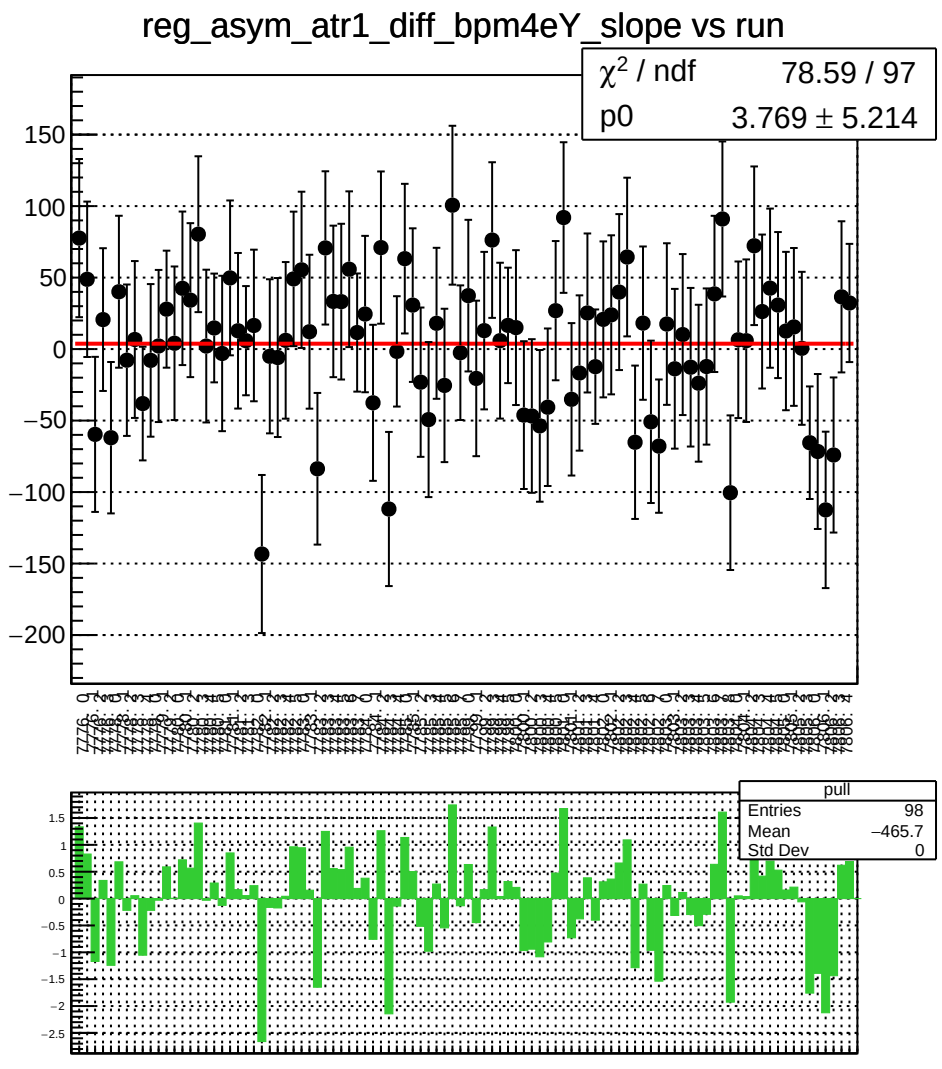

pull1D
Entries 98
Mean −0.0001945
Std Dev 0.2409
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

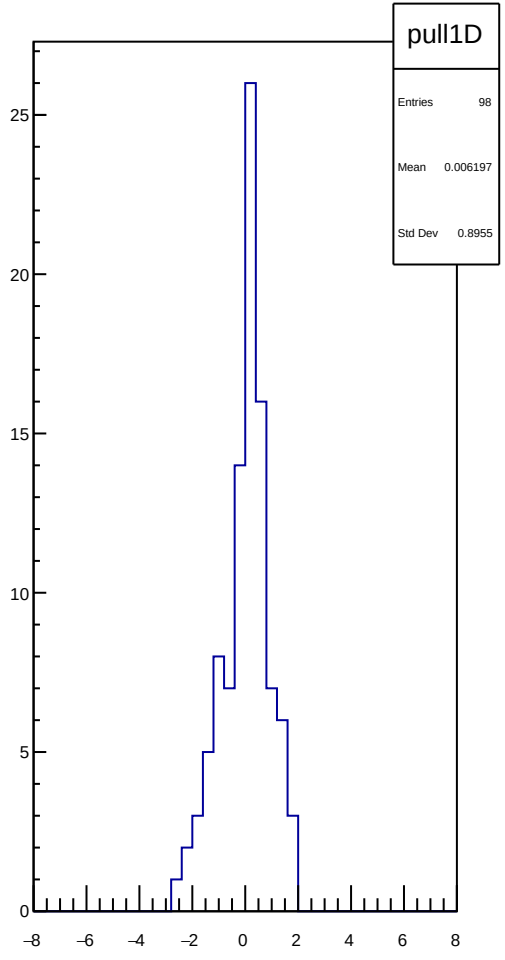

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 9.946 / 97
p0 −252.8 ± 0.4592
pull
Entries 98
Mean −14.34
Std Dev 0
pull1D
Entries 98
Mean −0.002346
Std Dev 0.3186

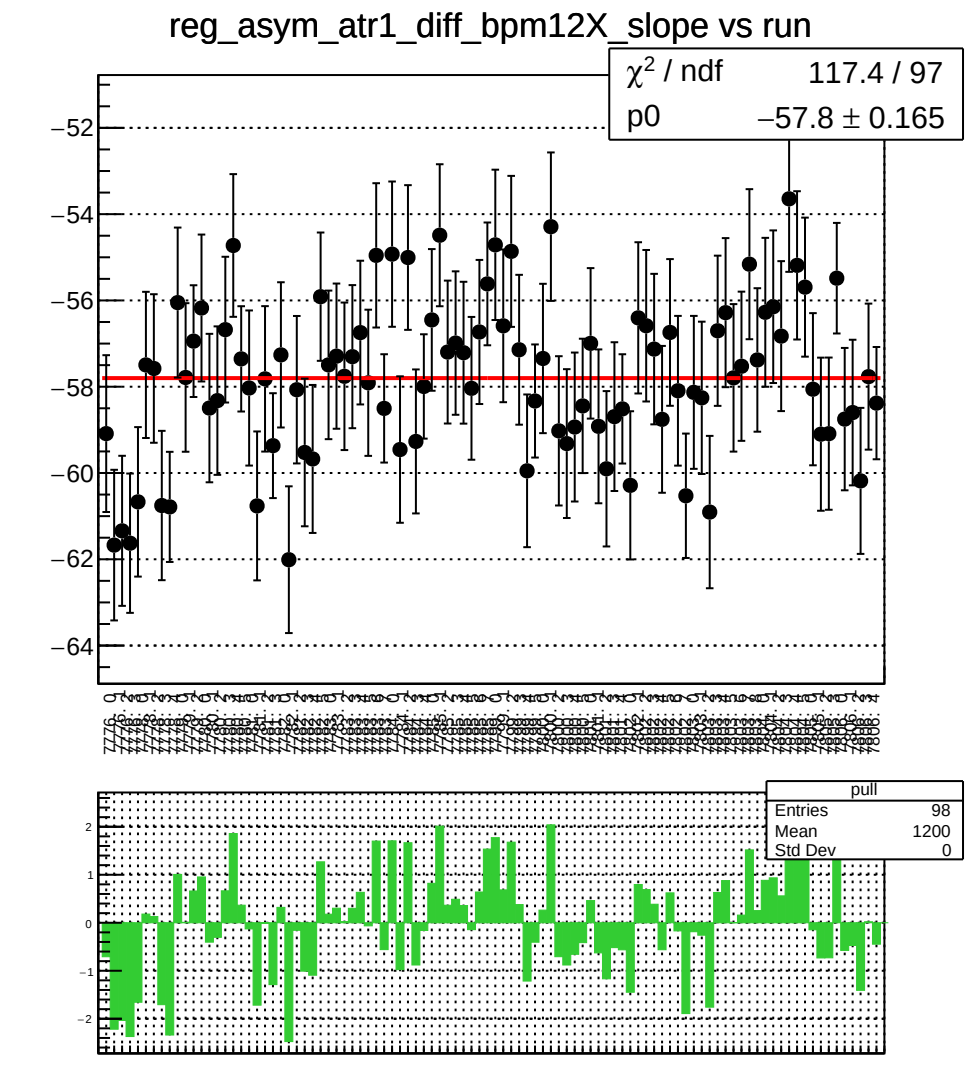

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 82.77 / 97
p0 −75.26 ± 4.483
50
0
−50
−100
−150
−200
pull
Entries 98
Mean −36.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.007086
Std Dev 0.919
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

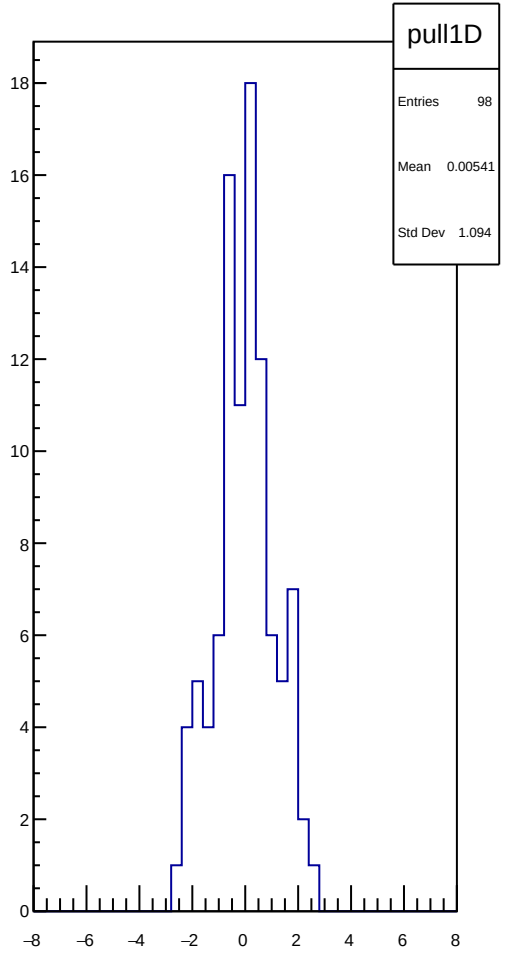

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 80.35 / 97
p0 7.981 ± 4.609
pull
Entries 98
Mean −412.4
Std Dev 0
pull1D
Entries 98
Mean −0.006939
Std Dev 0.9054

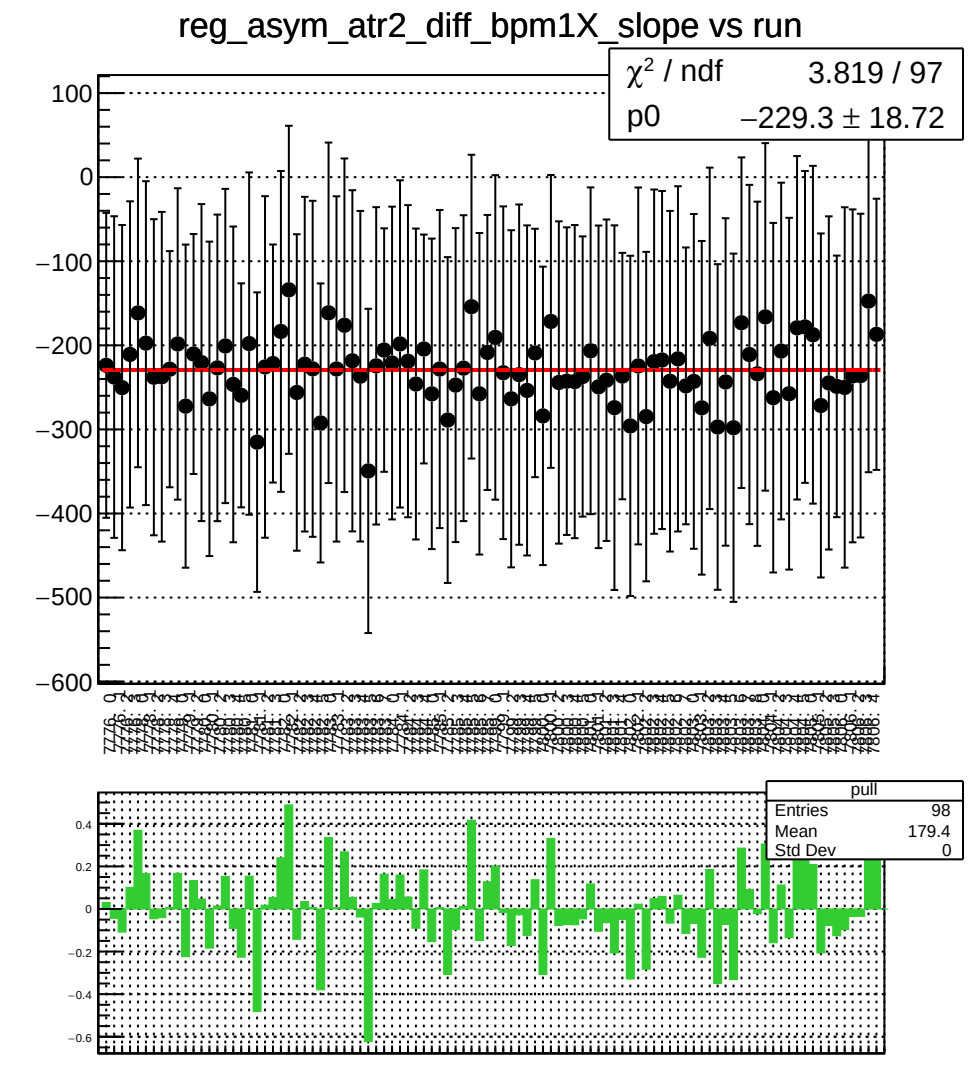

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 84.21 / 97
p0 11.71 ± 3.898
150
100
50
0
−50
−100
pull
Entries 98
Mean −63.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.005258
Std Dev 0.9269
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

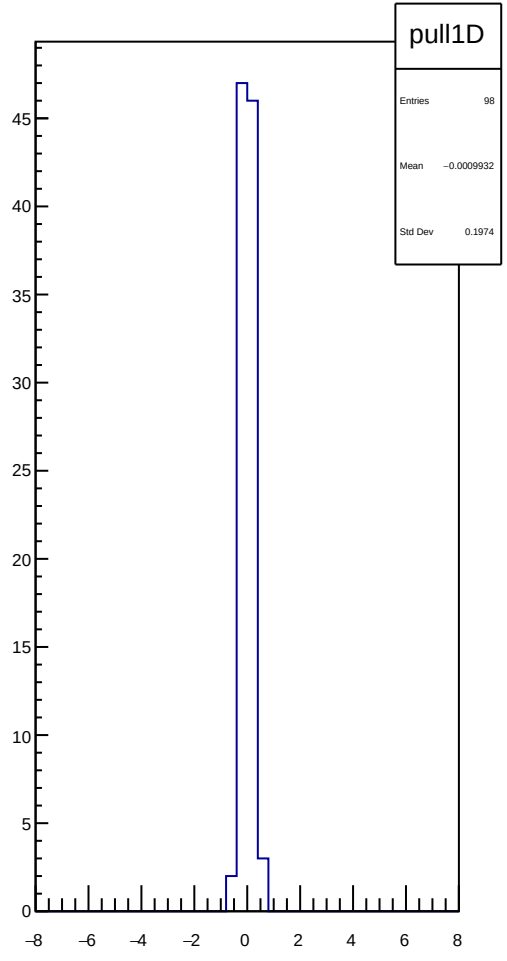

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 78.59 / 97
p0 3.769 ± 5.214
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean −465.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

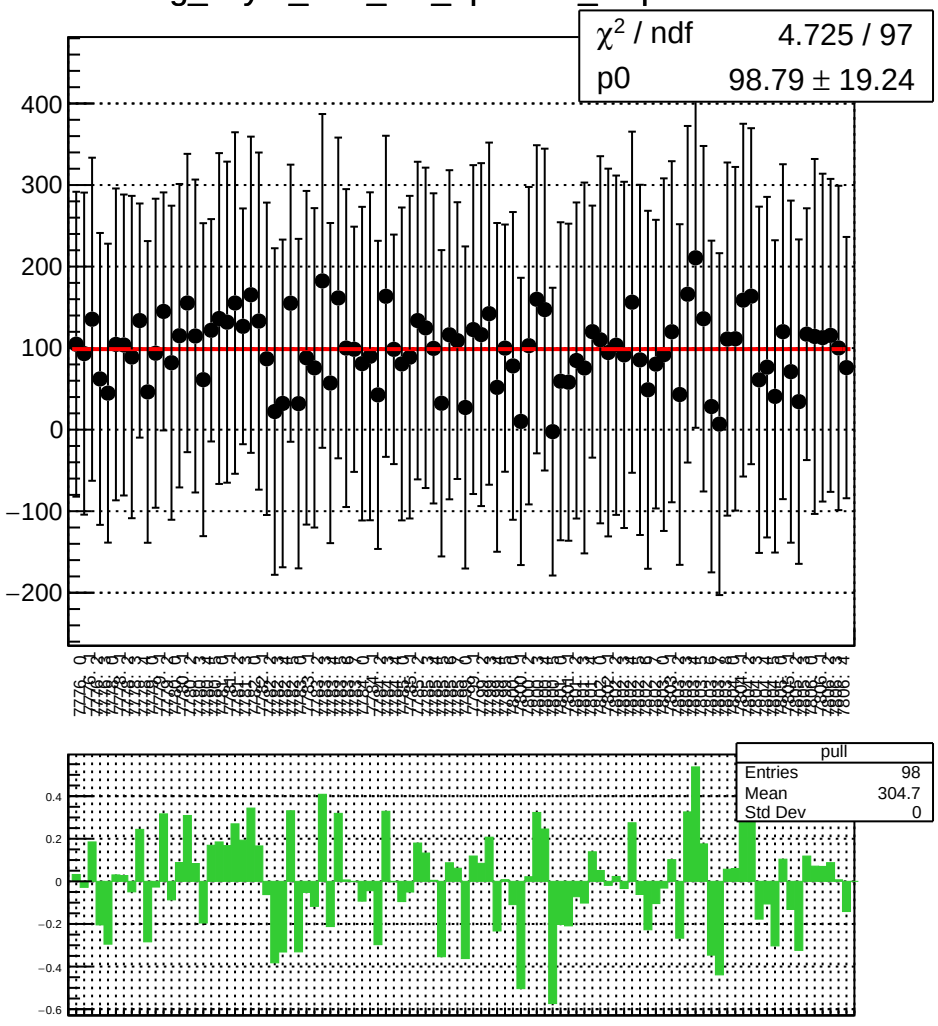

pull1D
Entries 98
Mean 0.006197
Std Dev 0.8955
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

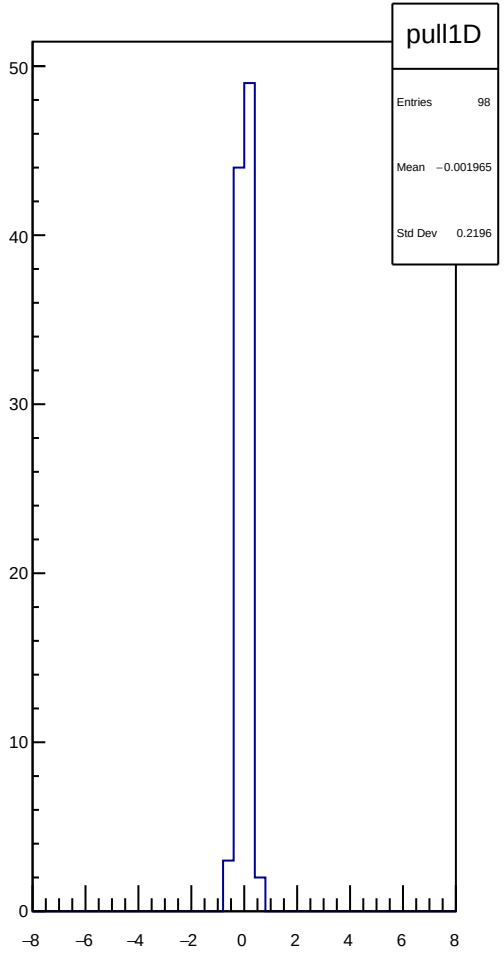

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 117.4 / 97
p0 −57.8 ± 0.165
−52
−54
−56
−58
−60
−62
−64
pull
Entries 98
Mean 1200
Std Dev 0
2
1
0
−1
−2

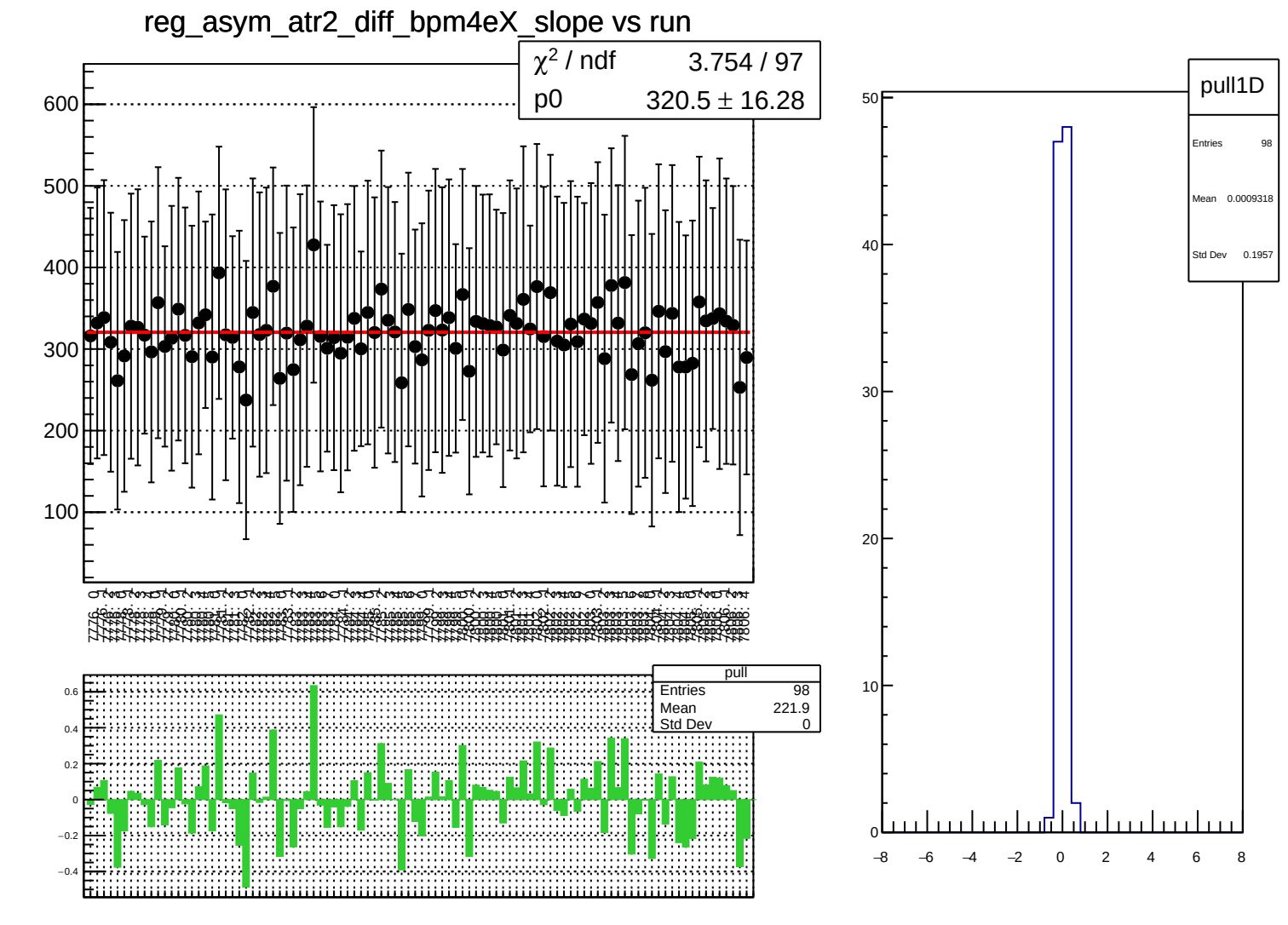

pull1D
Entries 98
Mean 0.00541
Std Dev 1.094
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

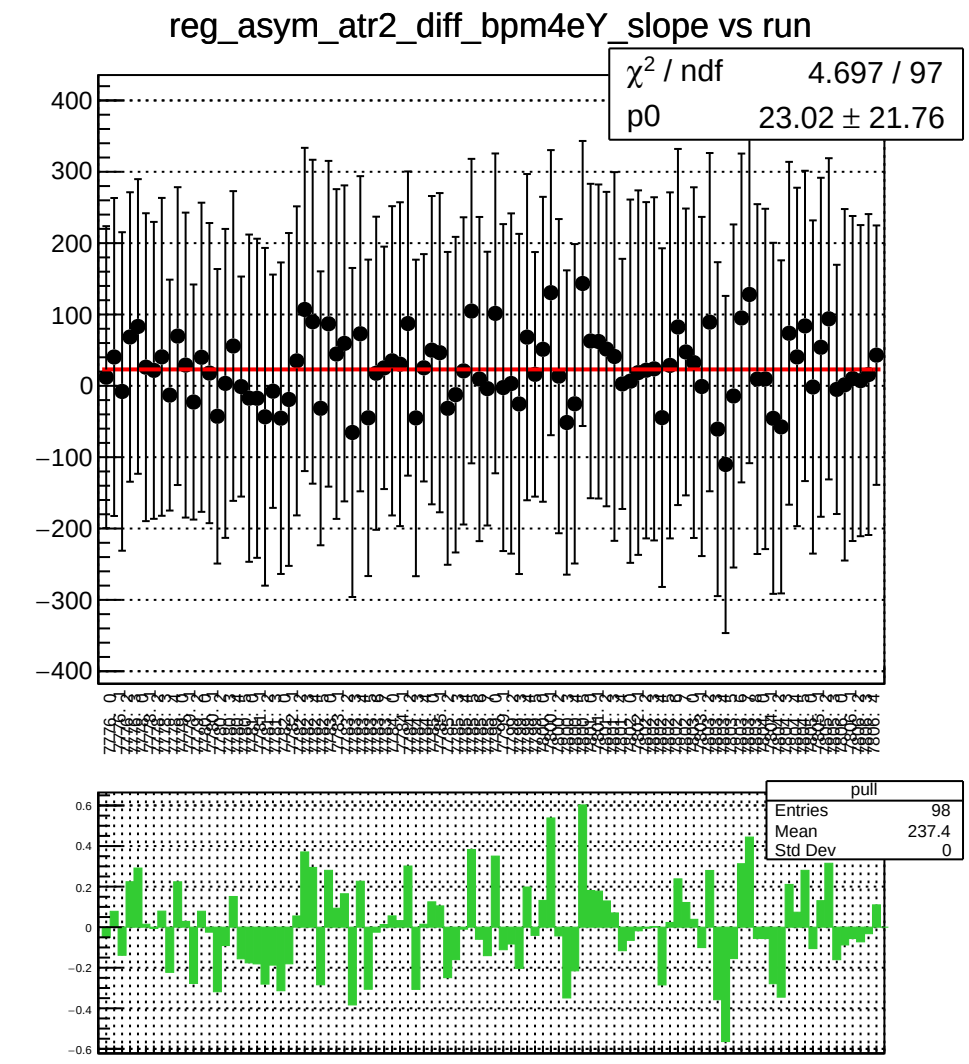

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 3.819 / 97
p0 −229.3 ± 18.72
pull
Entries 98
Mean 179.4
Std Dev 0

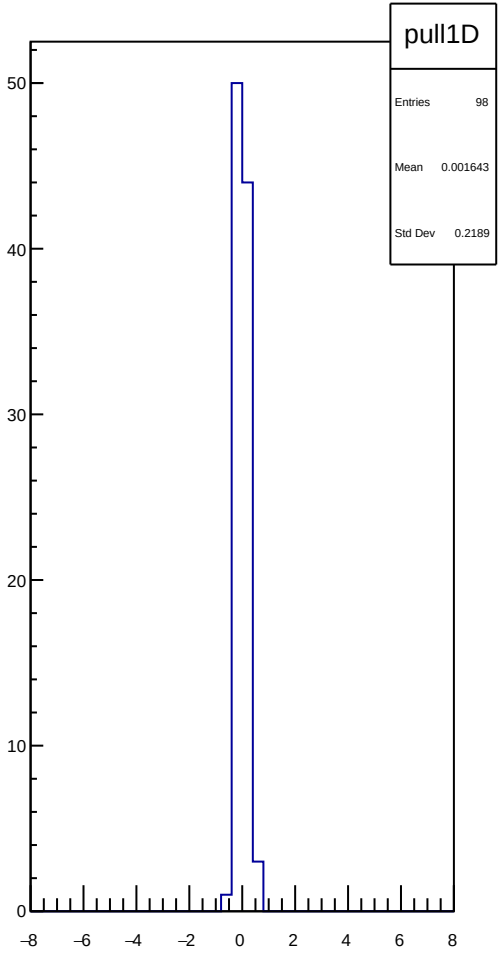

pull1D
Entries 98
Mean −0.0009932
Std Dev 0.1974

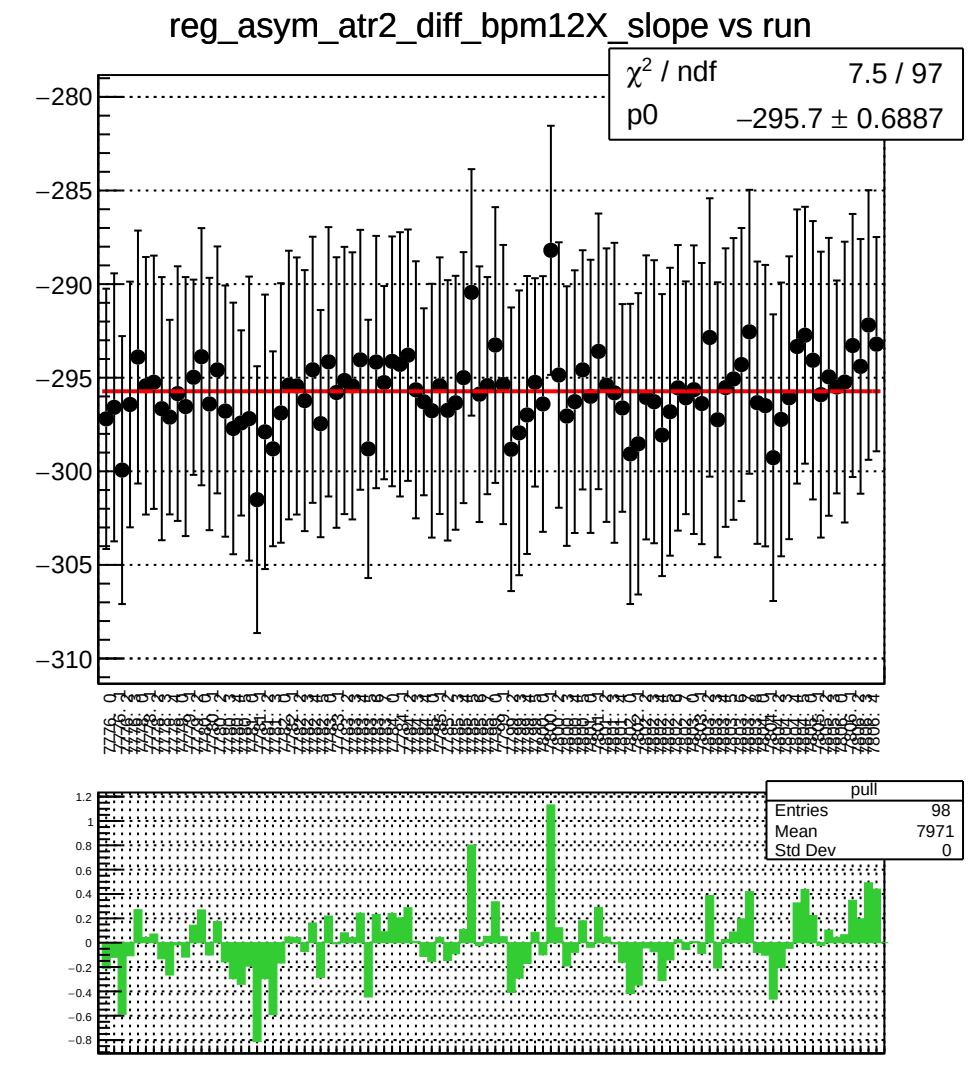

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.725 / 97
p0 98.79 ± 19.24
400
300
200
100
0
−100
−200
pull
Entries 98
Mean 304.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

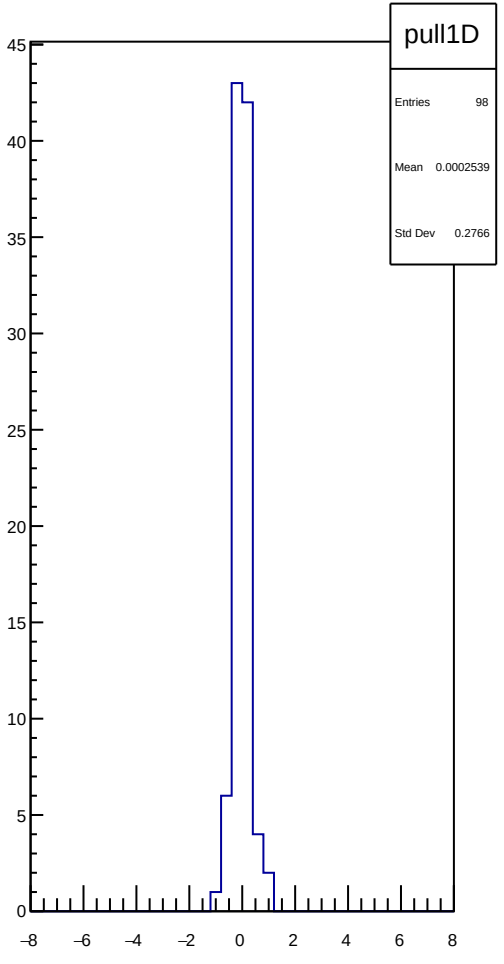

pull1D
Entries 98
Mean −0.001965
Std Dev 0.2196
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

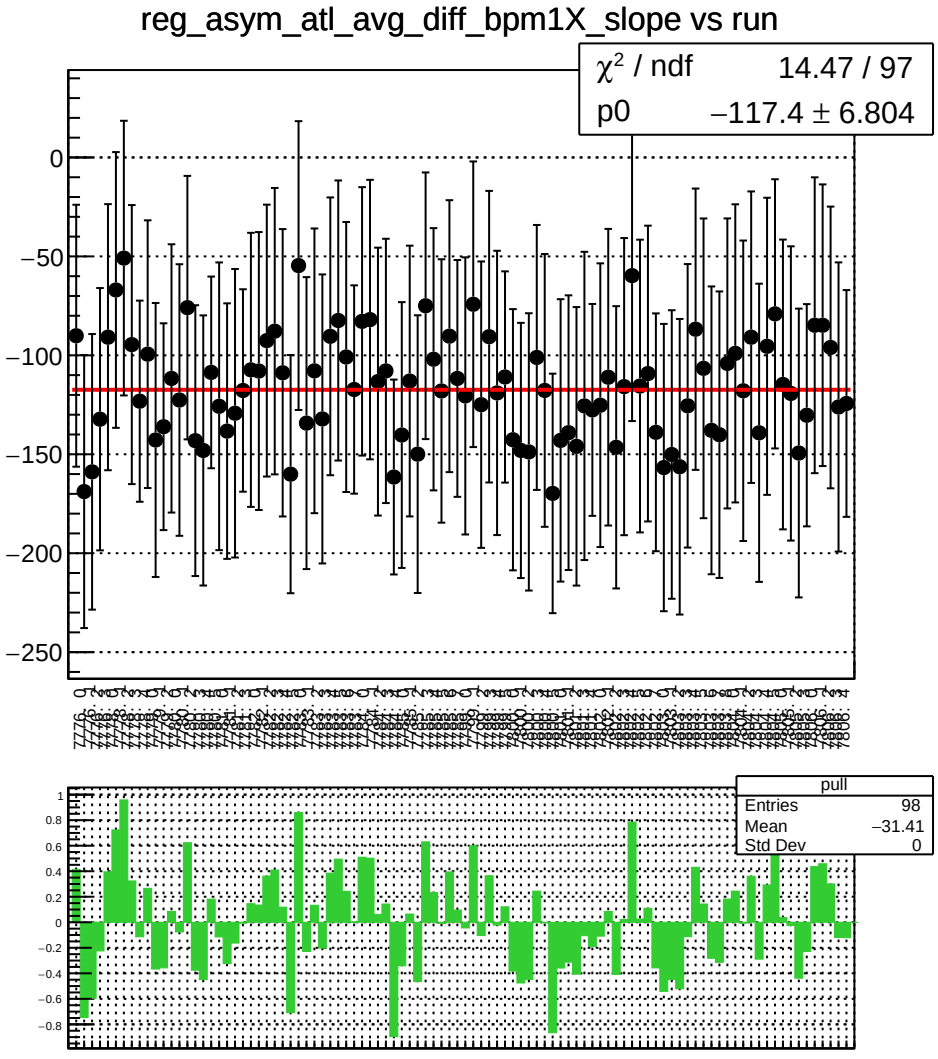

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 3.754 / 97
p0 320.5 ± 16.28
pull
Entries 98
Mean 221.9
Std Dev 0
pull1D
Entries 98
Mean 0.0009318
Std Dev 0.1957

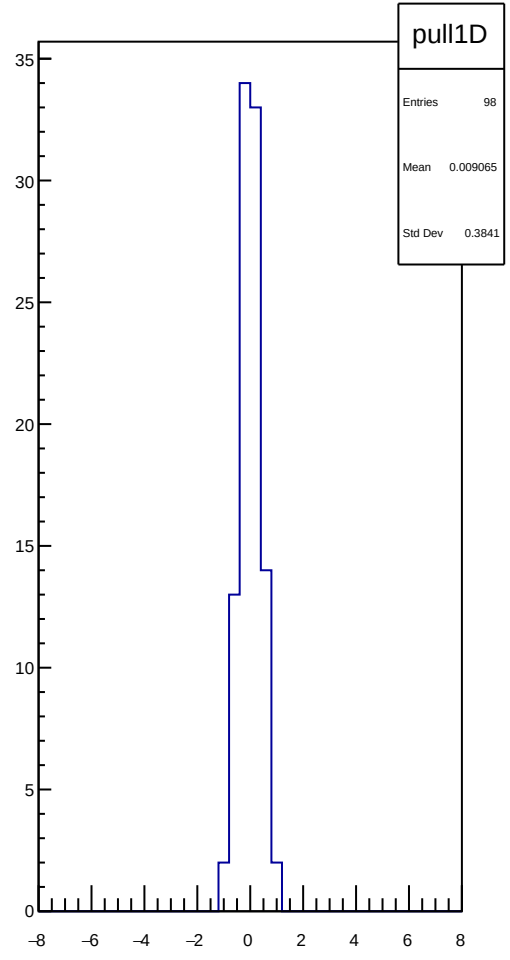

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.697 / 97
p0 23.02 ± 21.76
pull
Entries 98
Mean 237.4
Std Dev 0

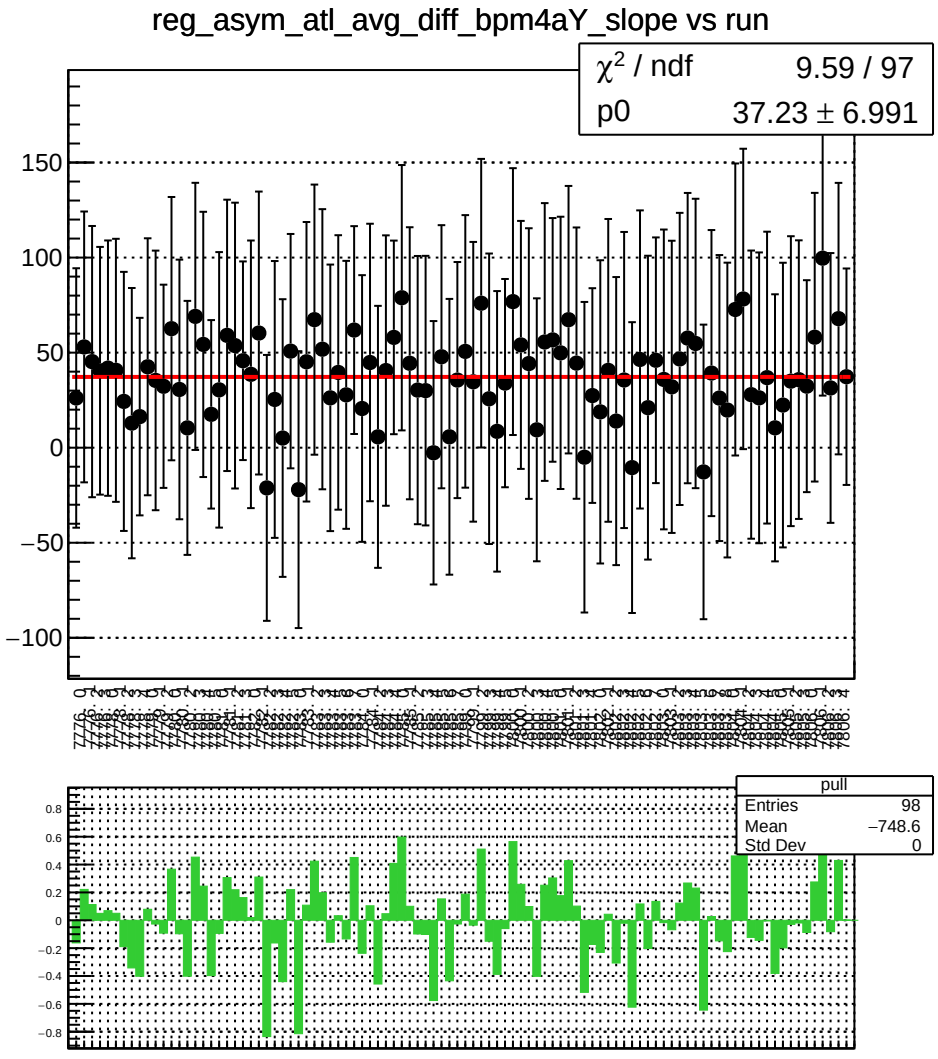

pull1D
Entries 98
Mean 0.001643
Std Dev 0.2189

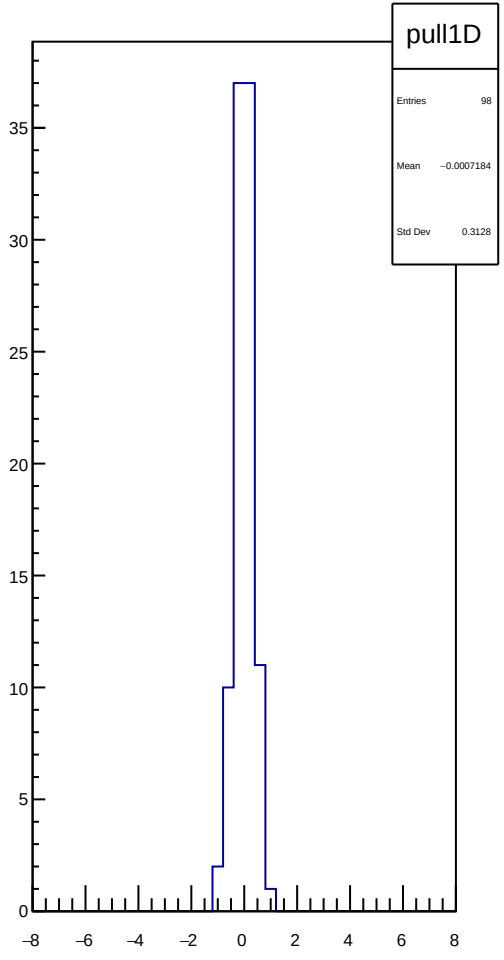

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 7.5 / 97
p0 −295.7 ± 0.6887
−280
−285
−290
−295
−300
−305
−310
pull
Entries 98
Mean 7971
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

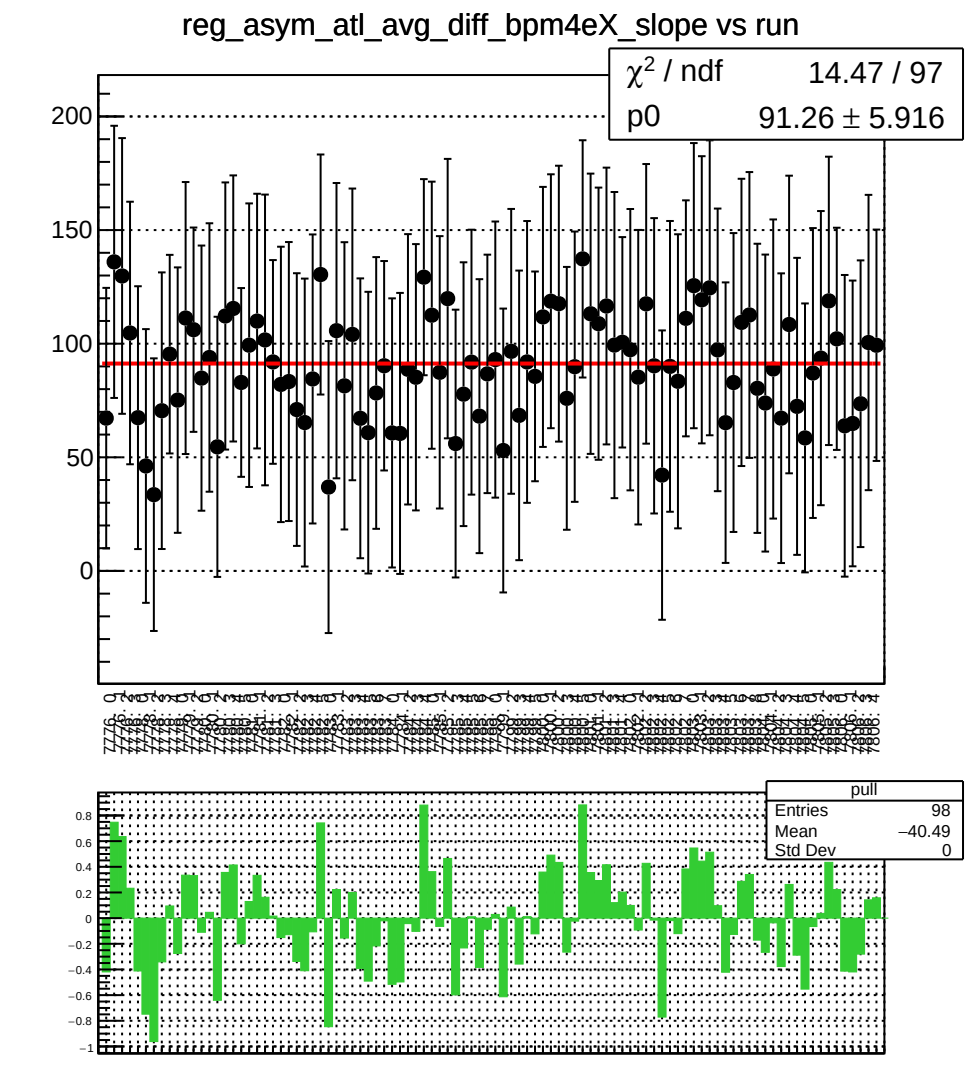

pull1D
Entries 98
Mean 0.0002539
Std Dev 0.2766
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

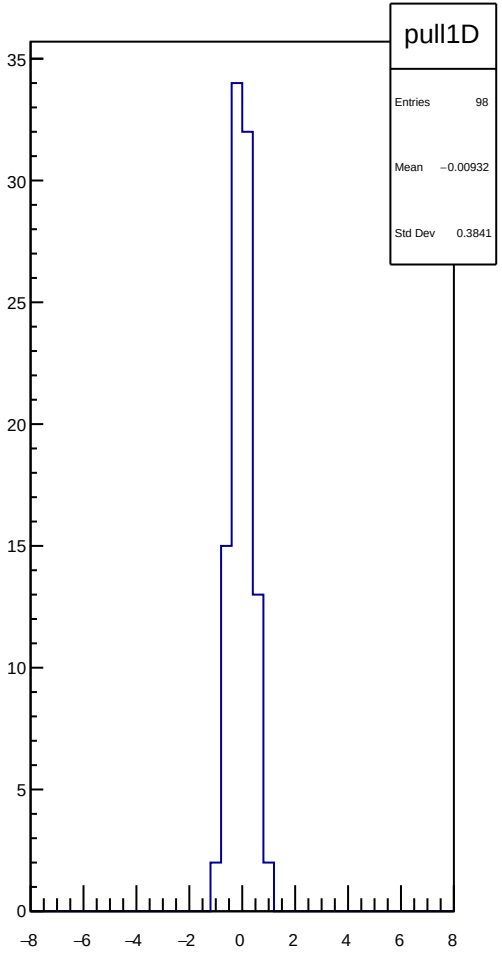

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 14.47 / 97
p0 −117.4 ± 6.804
pull
Entries 98
Mean −31.41
Std Dev 0

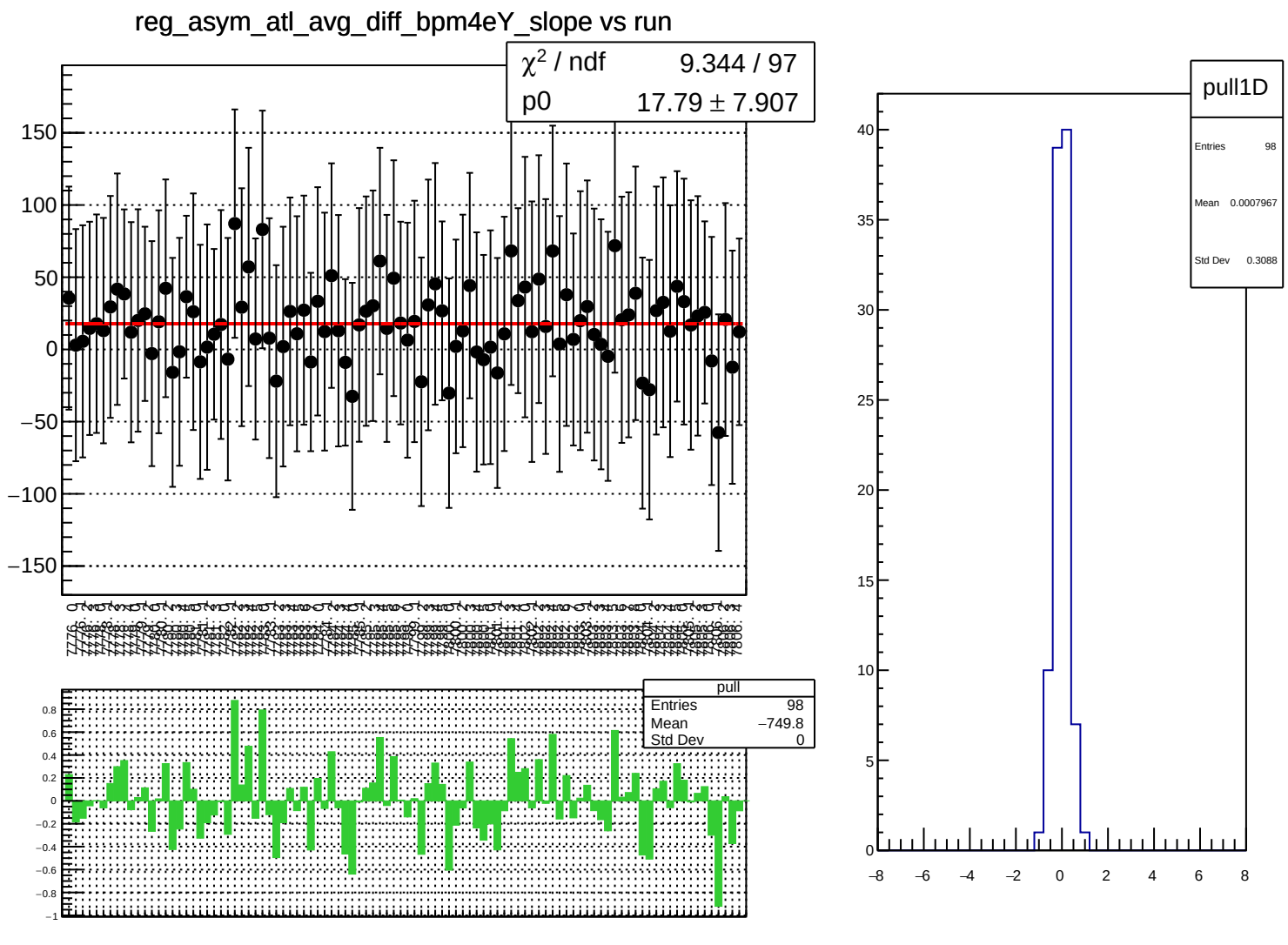

pull1D
Entries 98
Mean 0.009065
Std Dev 0.3841

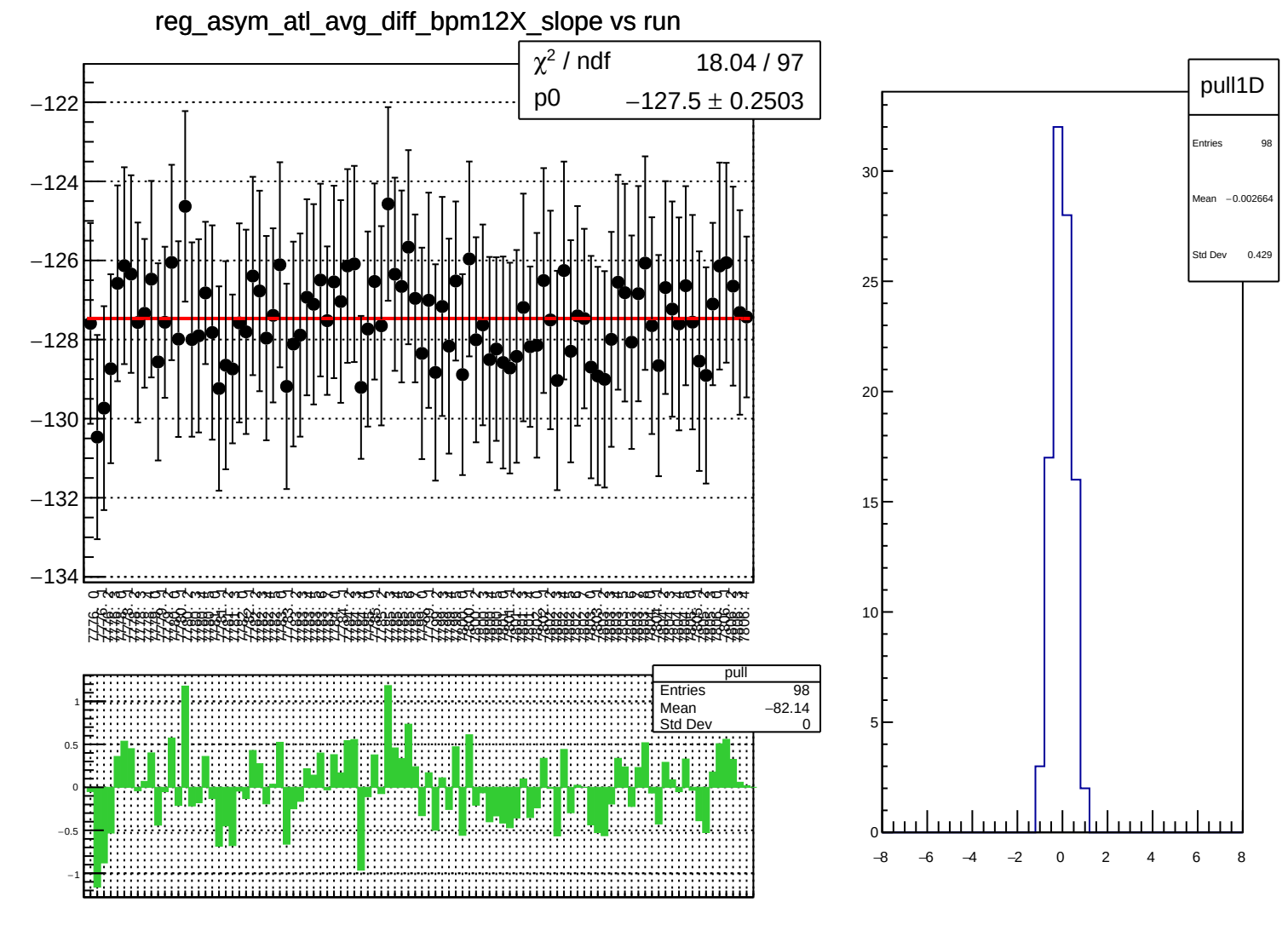

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.59 / 97
p0 37.23 ± 6.991
150
100
50
0
−50
−100
pull
Entries 98
Mean −748.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

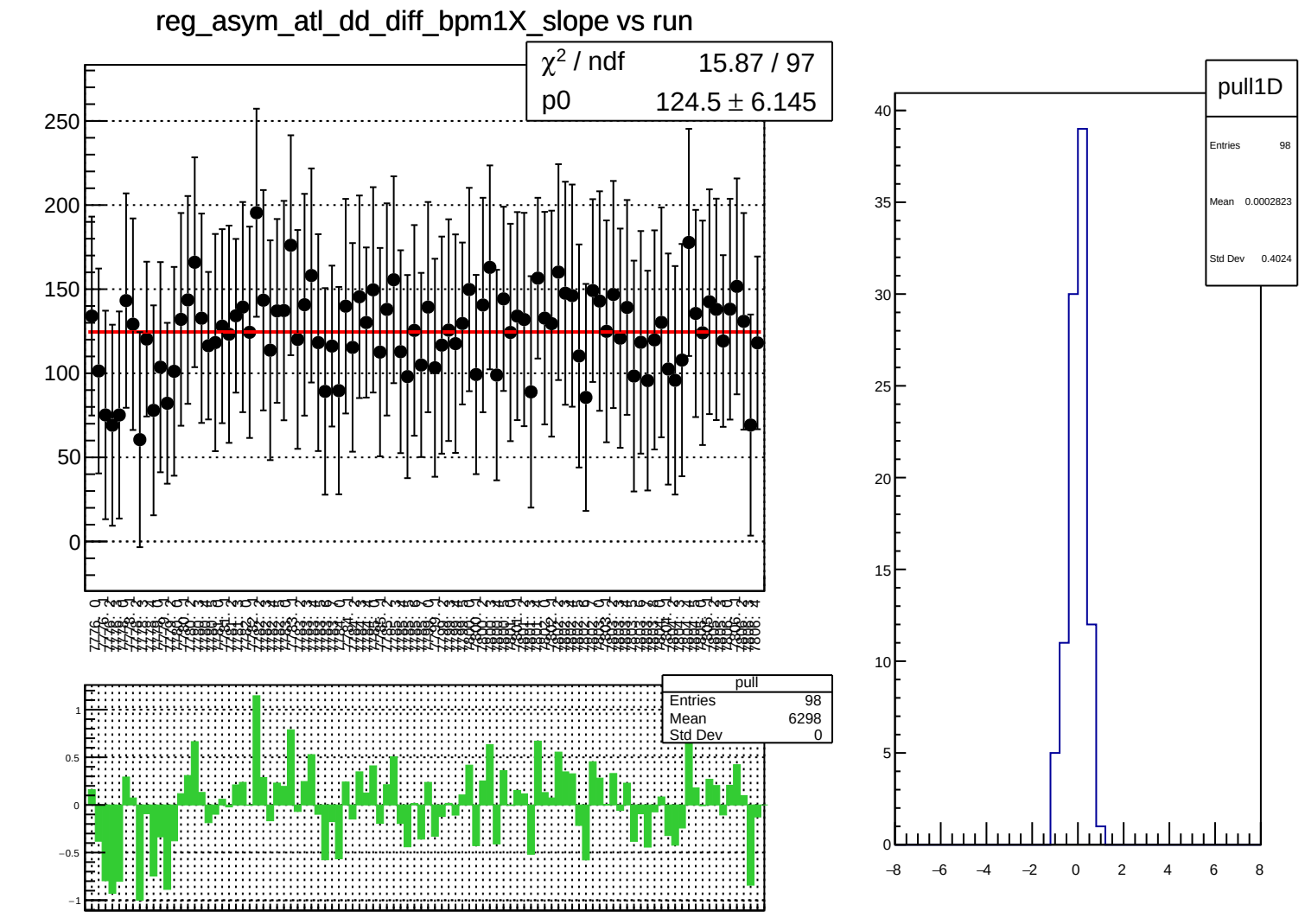

pull1D
Entries 98
Mean −0.0007184
Std Dev 0.3128
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

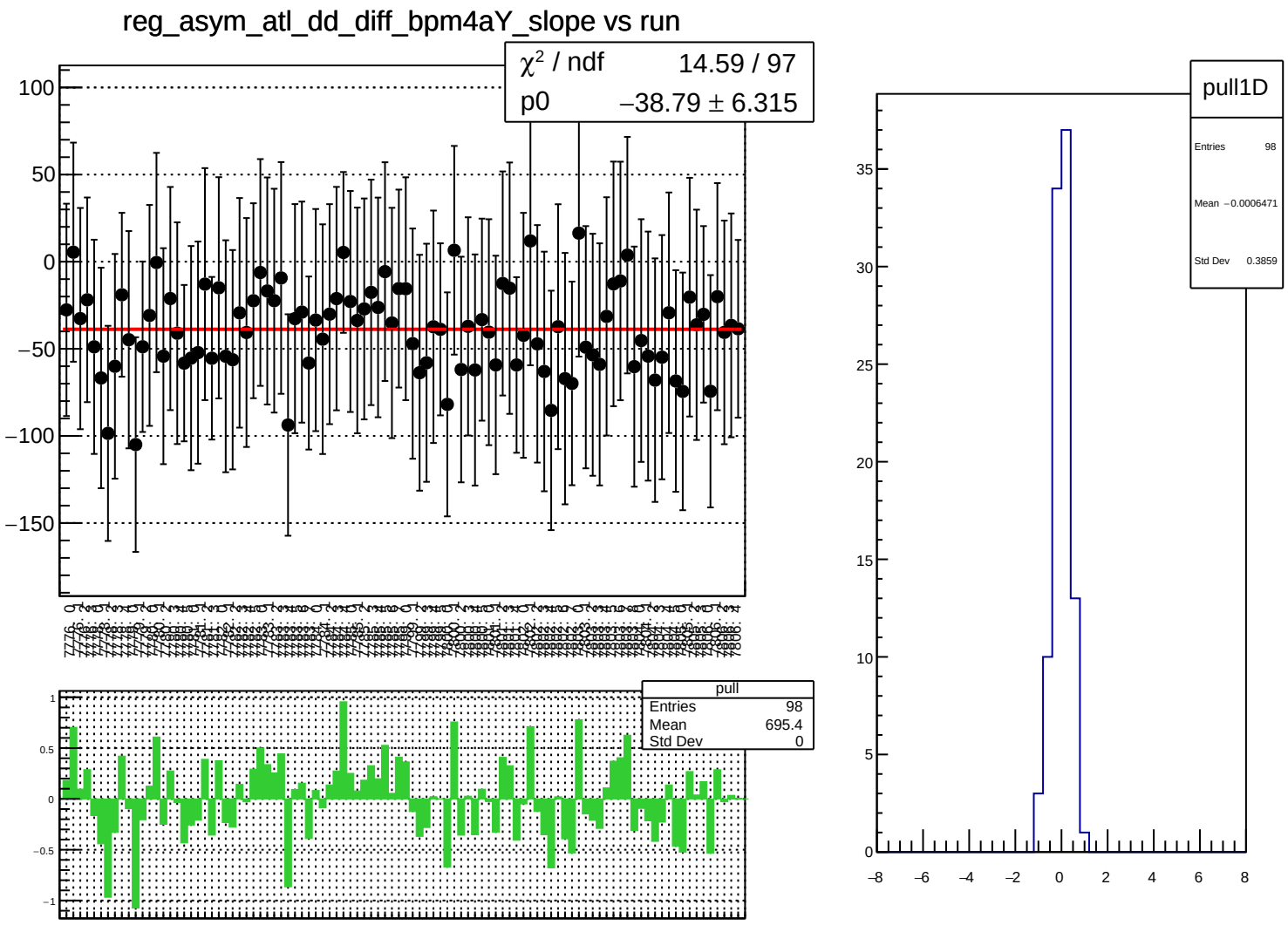

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.47 / 97
p0 91.26 ± 5.916
200
150
100
50
0
pull
Entries 98
Mean −40.49
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

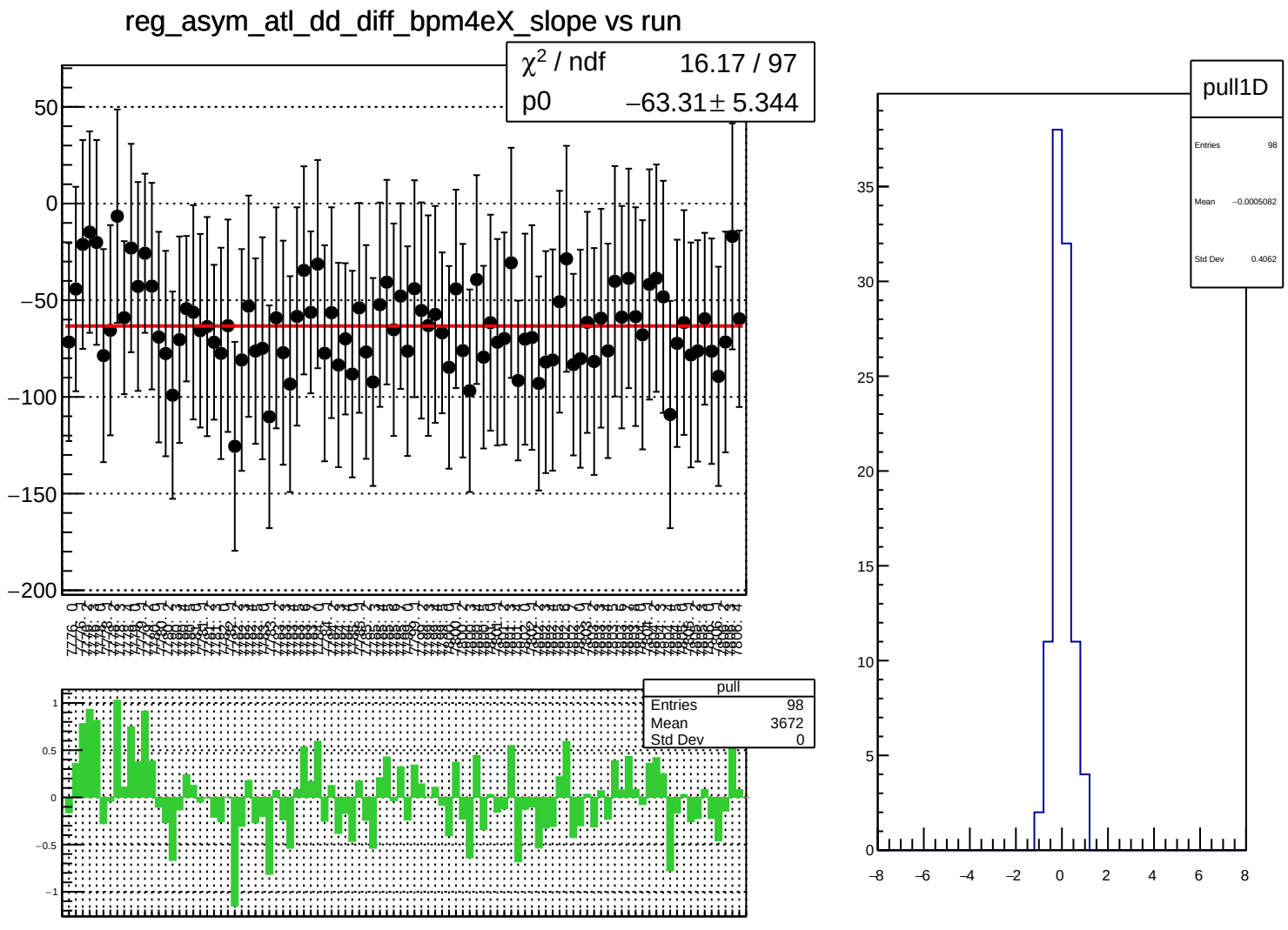

pull1D
Entries 98
Mean −0.00932
Std Dev 0.3841
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

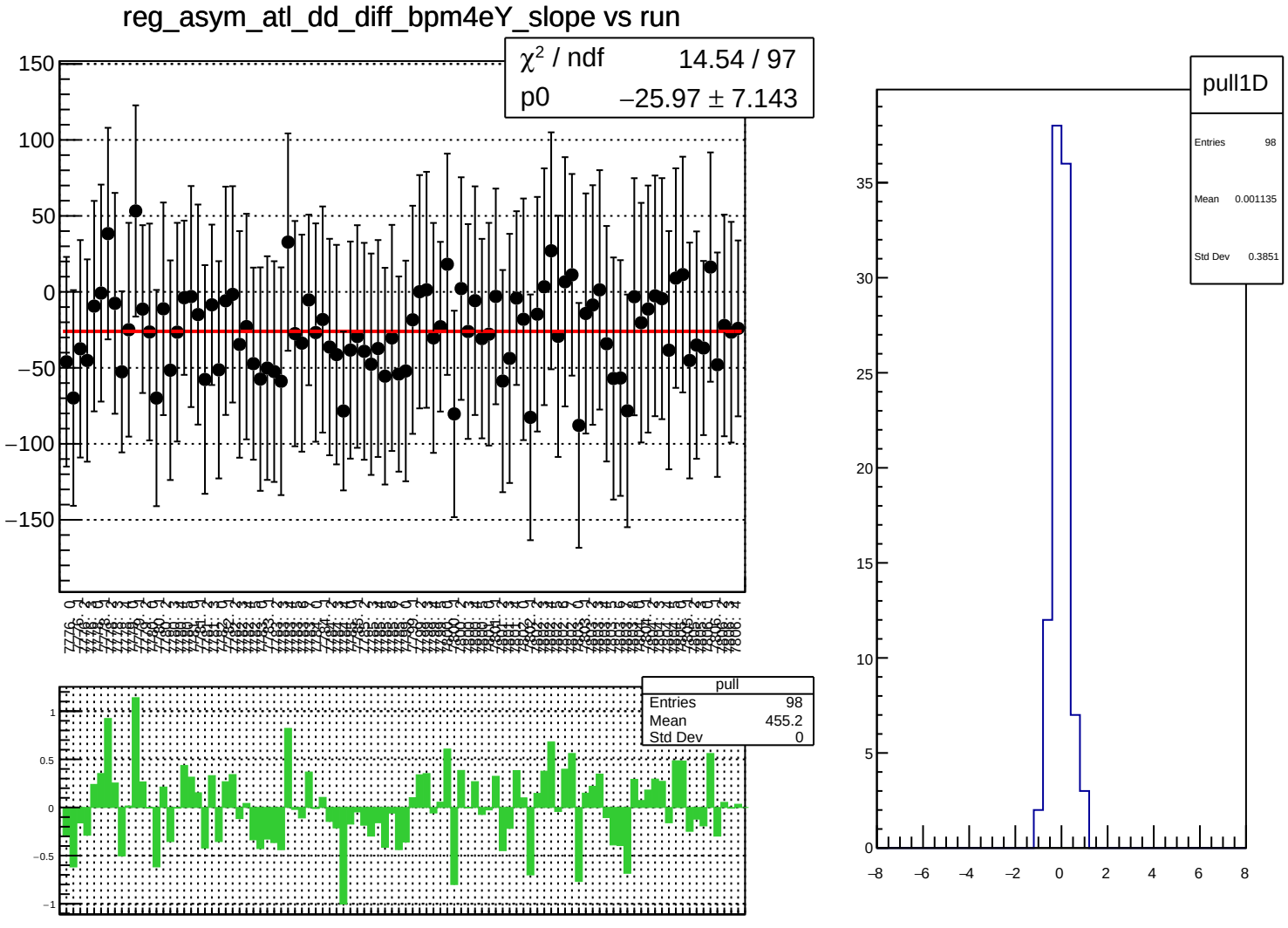

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.344 / 97
p0 17.79 ± 7.907
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −749.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 98
Mean 0.0007967
Std Dev 0.3088
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

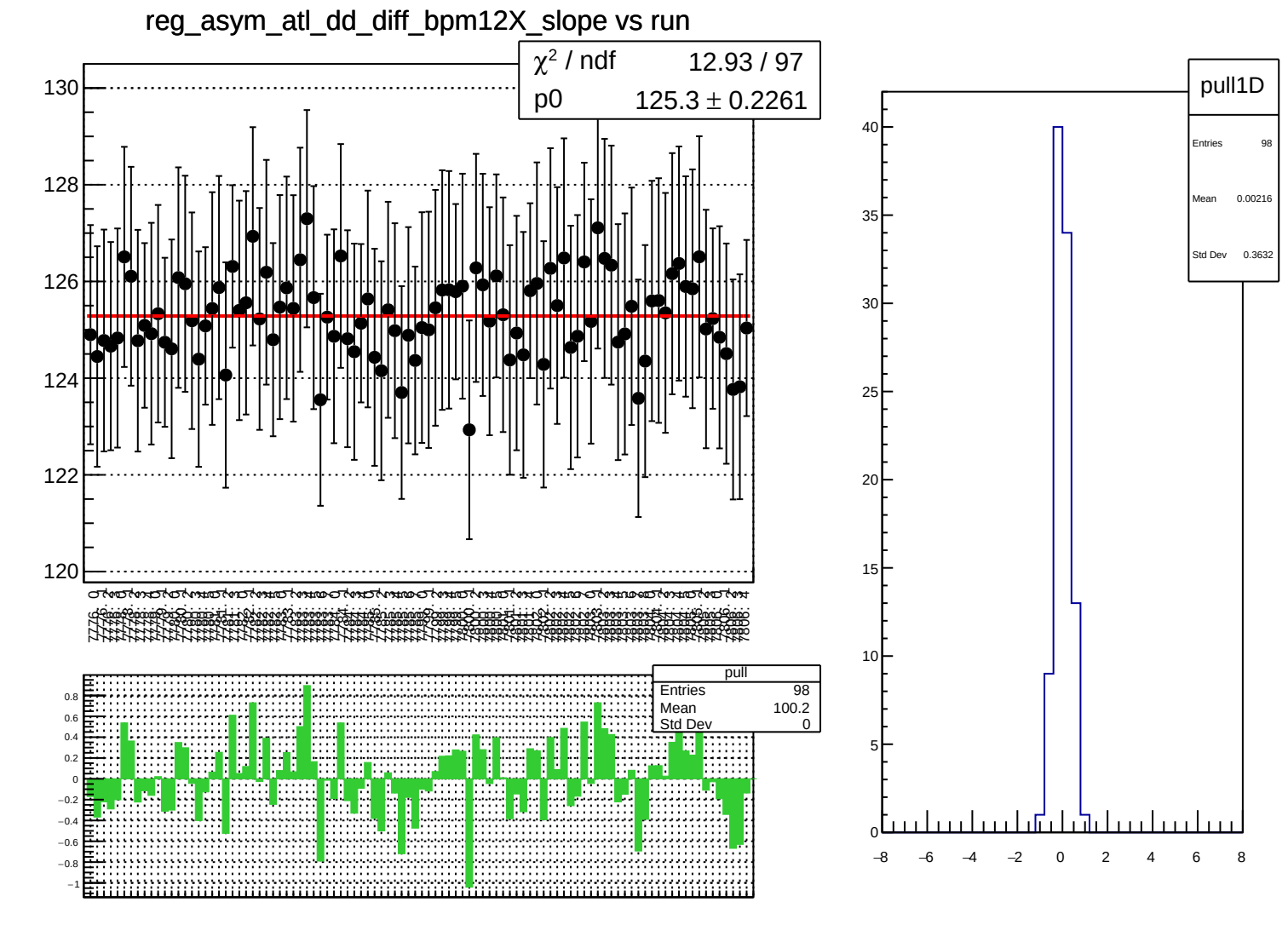

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 18.04 / 97
p0 −127.5 ± 0.2503
−122
−124
−126
−128
−130
−132
−134
pull
Entries 98
Mean −82.14
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean −0.002664
Std Dev 0.429
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

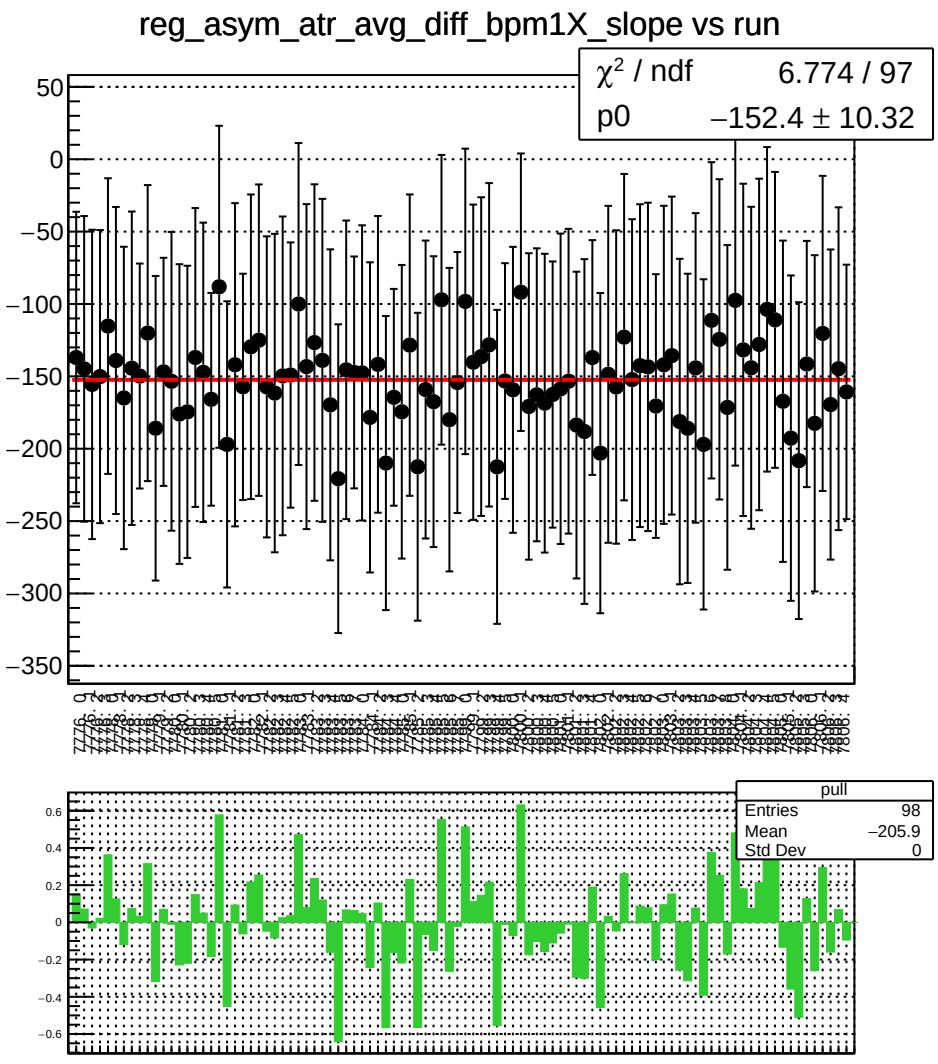

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 15.87 / 97
p0 124.5 ± 6.145
pull
Entries 98
Mean 6298
Std Dev 0
pull1D
Entries 98
Mean 0.0002823
Std Dev 0.4024

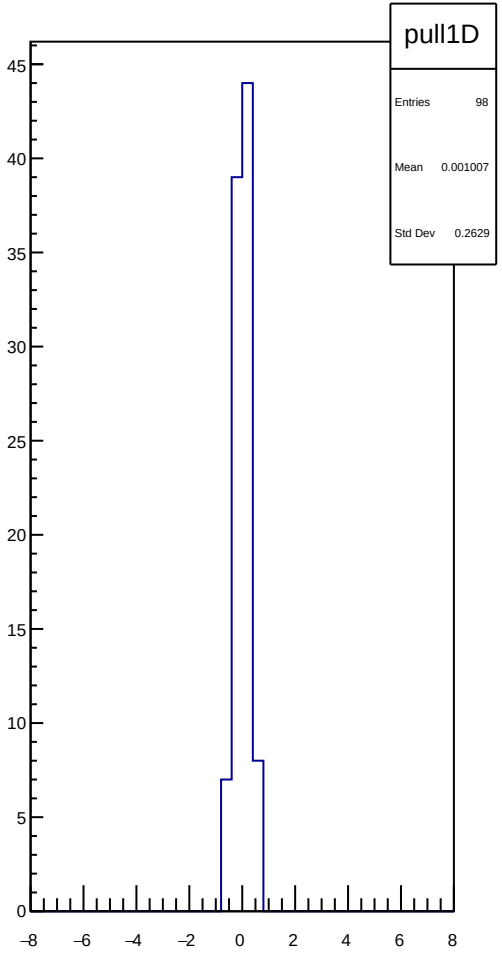

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.59 / 97
p0 −38.79 ± 6.315
100
50
0
−50
−100
−150
pull
Entries 98
Mean 695.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean −0.0006471
Std Dev 0.3859
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

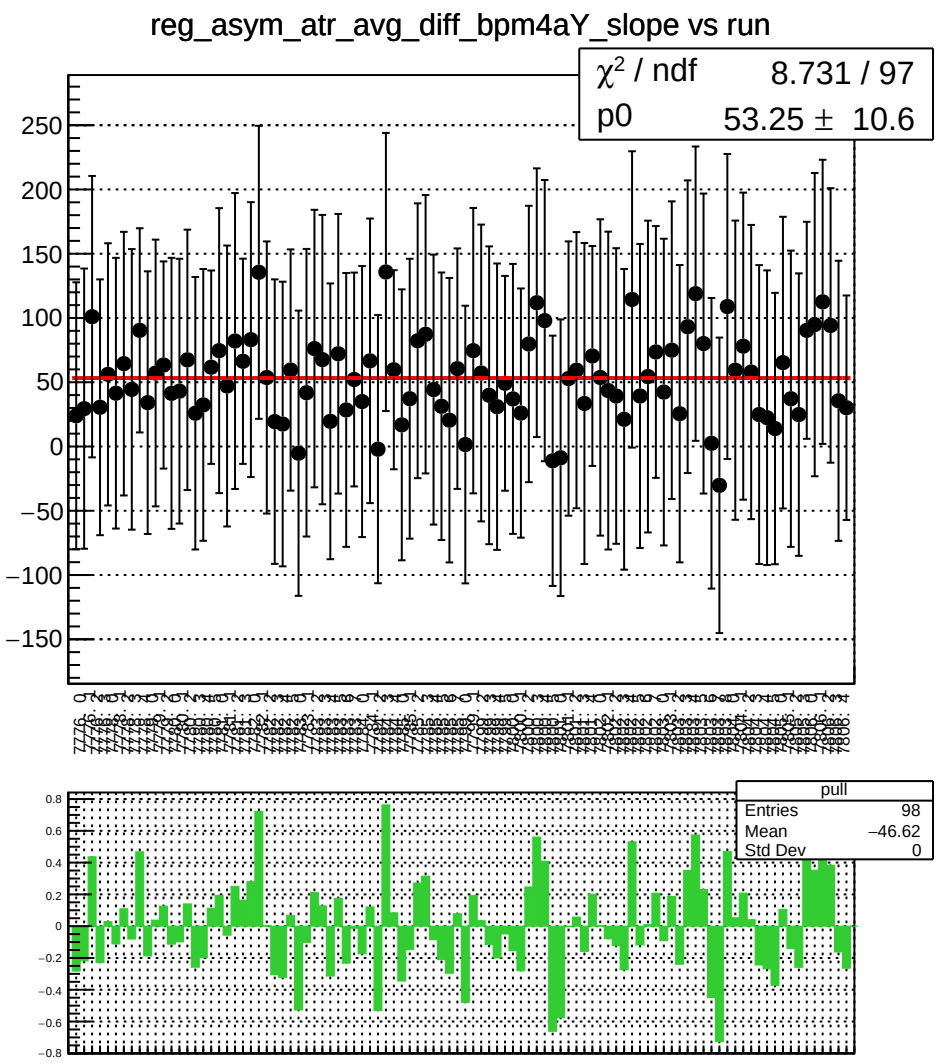

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.17 / 97
p0 −63.31 ± 5.344
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 3672
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean −0.0005082
Std Dev 0.4062
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

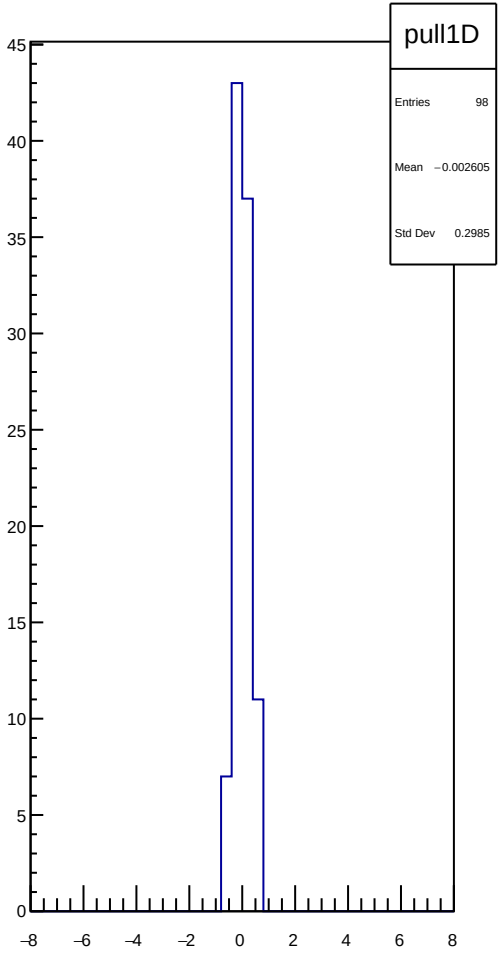

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.54 / 97
p0 −25.97 ± 7.143
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 455.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean 0.001135
Std Dev 0.3851
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

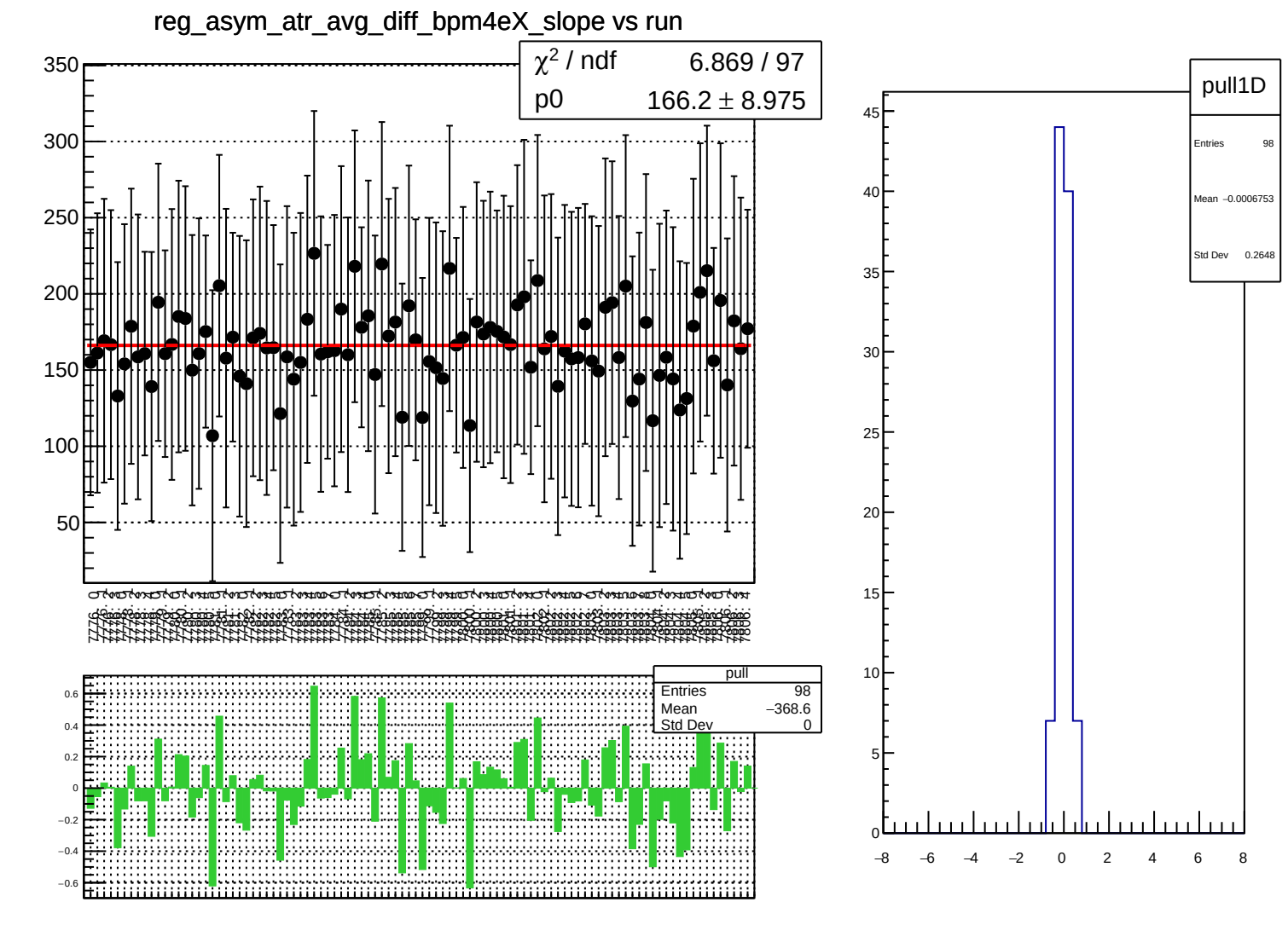

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 12.93 / 97
p0 125.3 ± 0.2261
130
128
126
124
122
120
pull
Entries 98
Mean 100.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 98
Mean 0.00216
Std Dev 0.3632
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

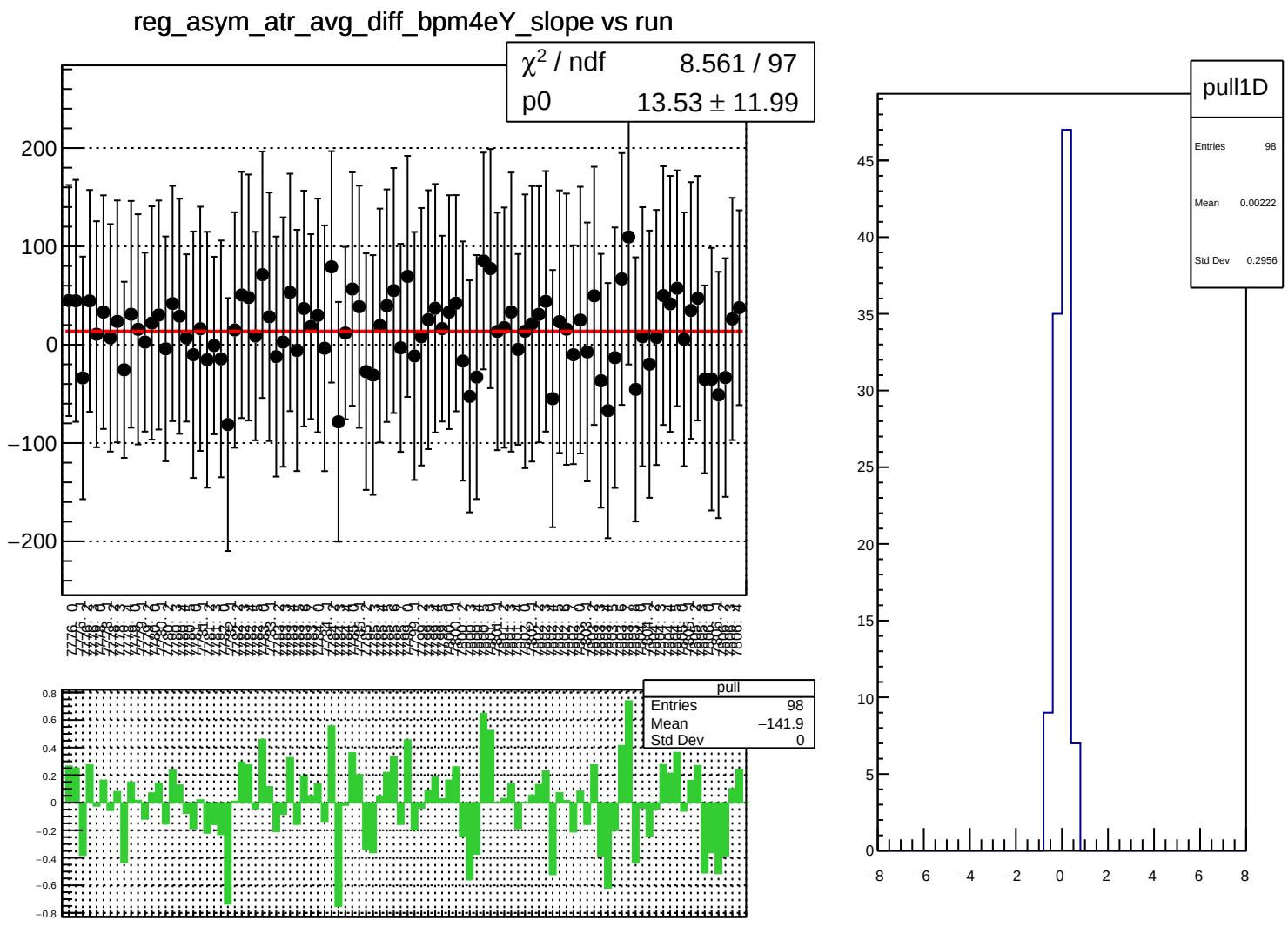

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 6.774 / 97
p0 −152.4 ± 10.32
pull
Entries 98
Mean −205.9
Std Dev 0

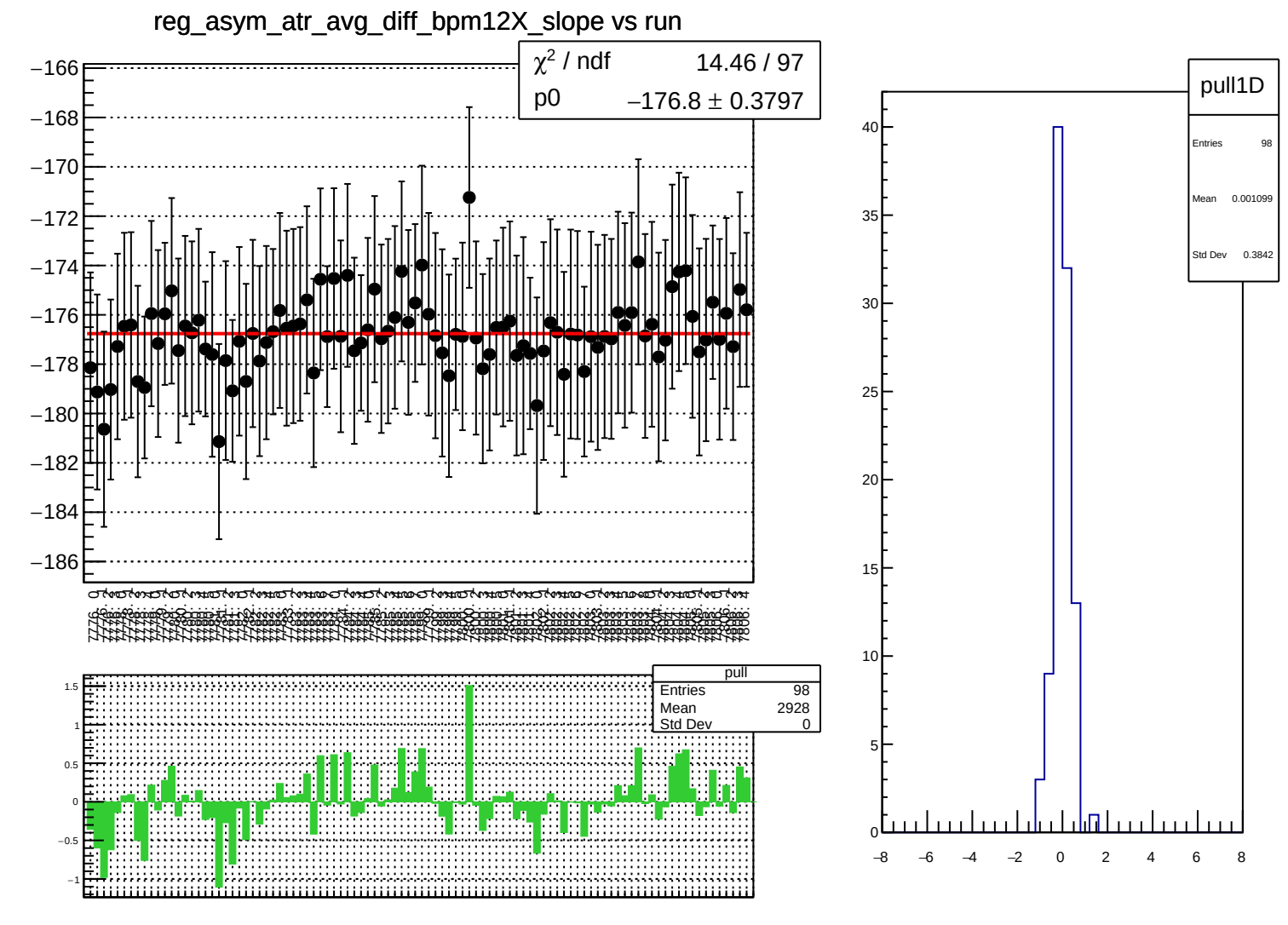

pull1D
Entries 98
Mean 0.001007
Std Dev 0.2629

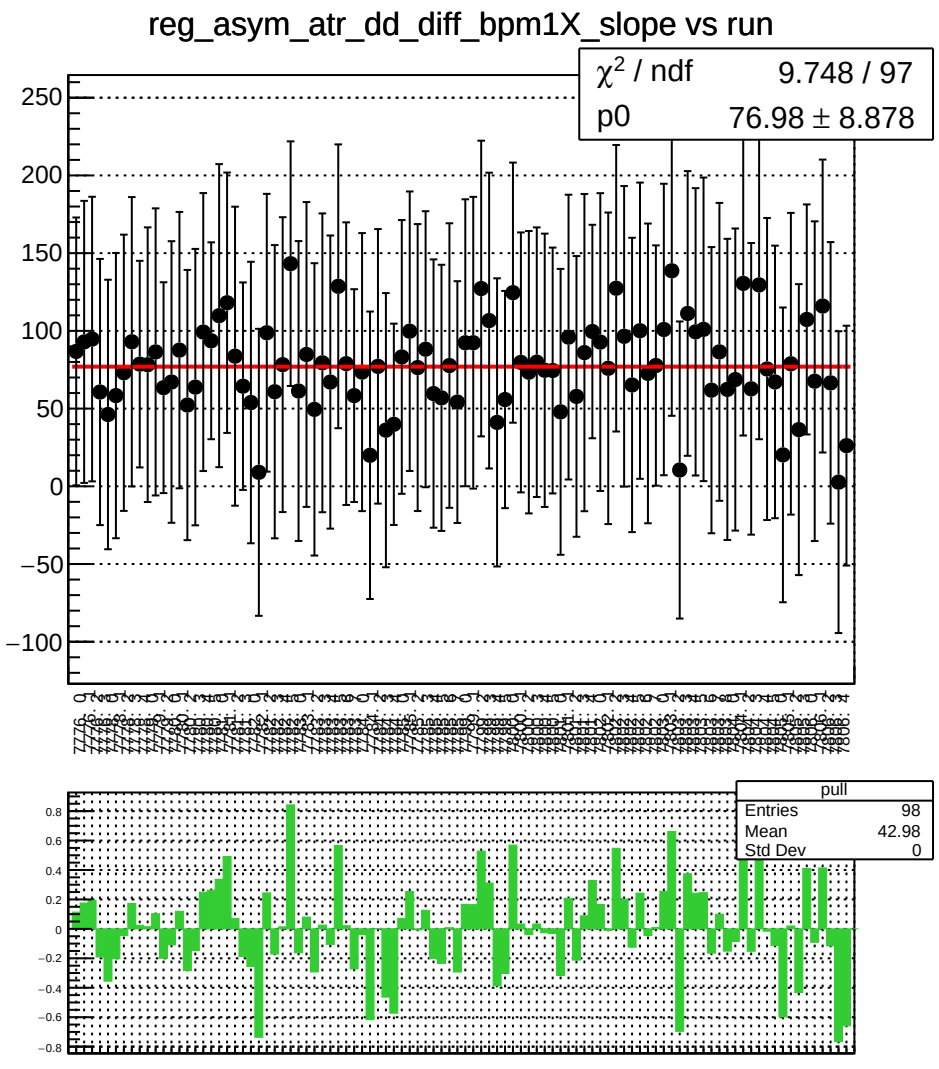

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.731 / 97
p0 53.25 ± 10.6
pull
Entries 98
Mean −46.62
Std Dev 0

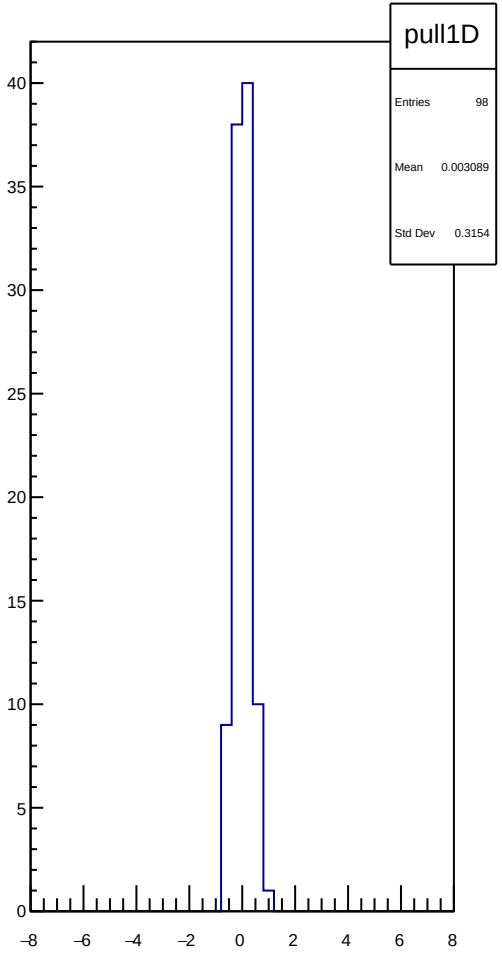

pull1D
Entries 98
Mean −0.002605
Std Dev 0.2985

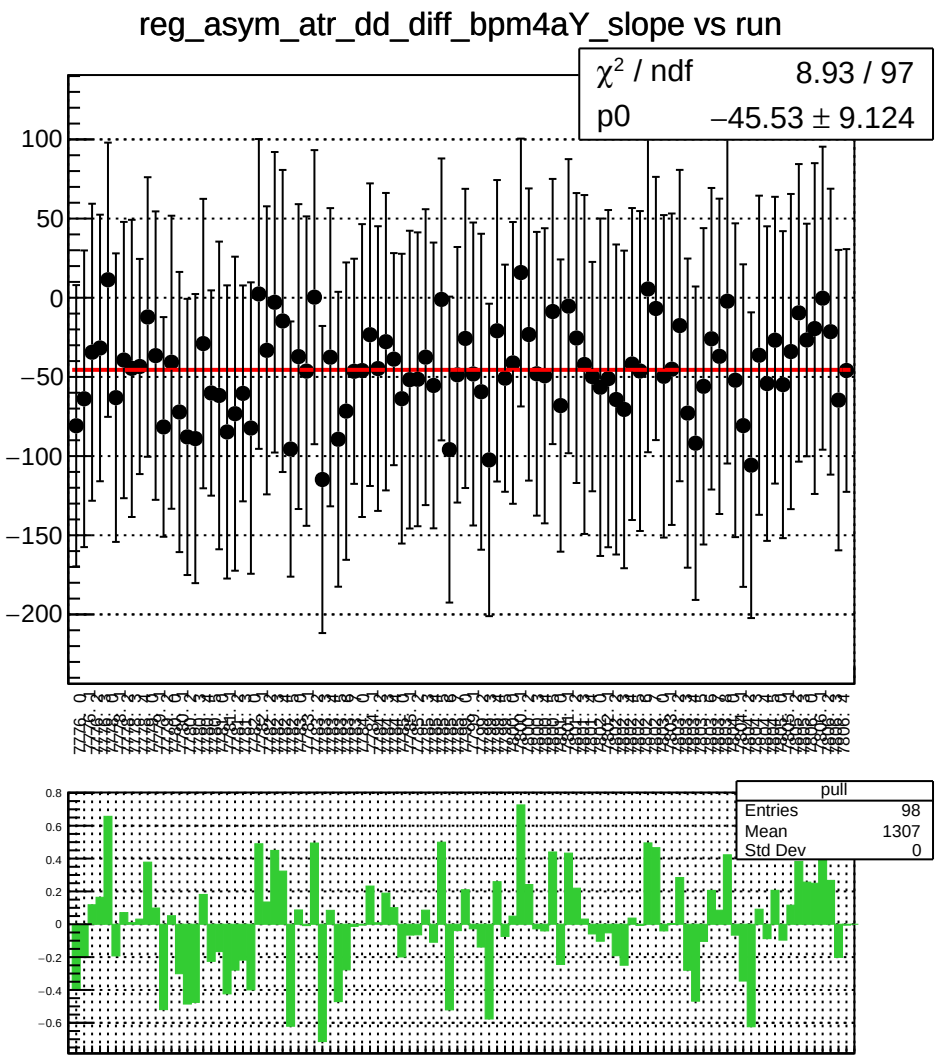

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.869 / 97
p0 166.2 ± 8.975
350
300
250
200
150
100
50
pull
Entries 98
Mean −368.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean −0.0006753
Std Dev 0.2648
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

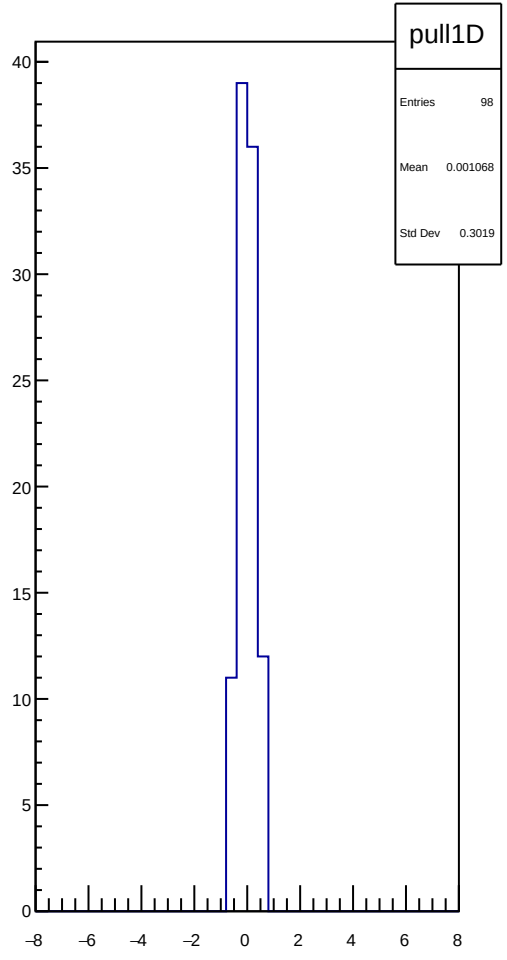

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 8.561 / 97
p0 13.53 ± 11.99
200
100
0
−100
−200
pull
Entries 98
Mean −141.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean 0.00222
Std Dev 0.2956
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

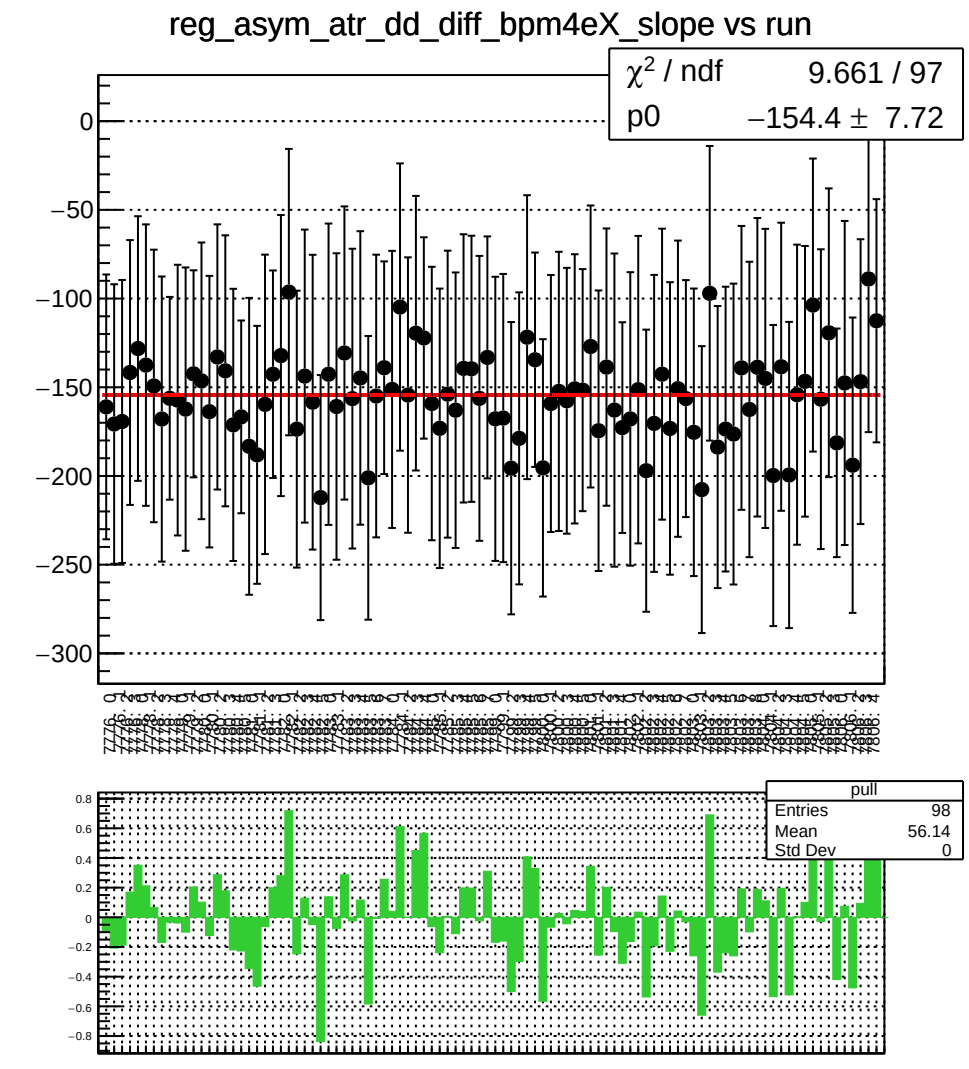

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 14.46 / 97
p0 −176.8 ± 0.3797
pull
Entries 98
Mean 2928
Std Dev 0
pull1D
Entries 98
Mean 0.001099
Std Dev 0.3842

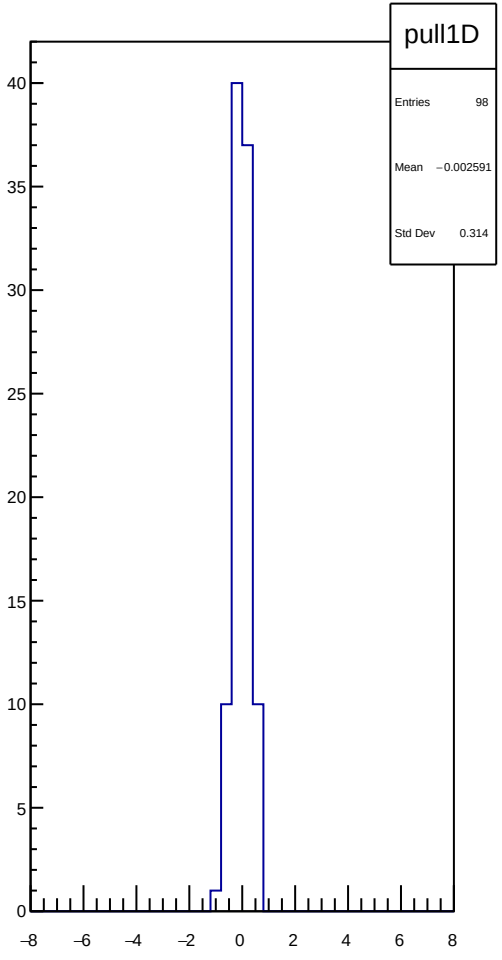

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ^2 / ndf 9.748 / 97
p0 76.98 ± 8.878
pull
Entries 98
Mean 42.98
Std Dev 0

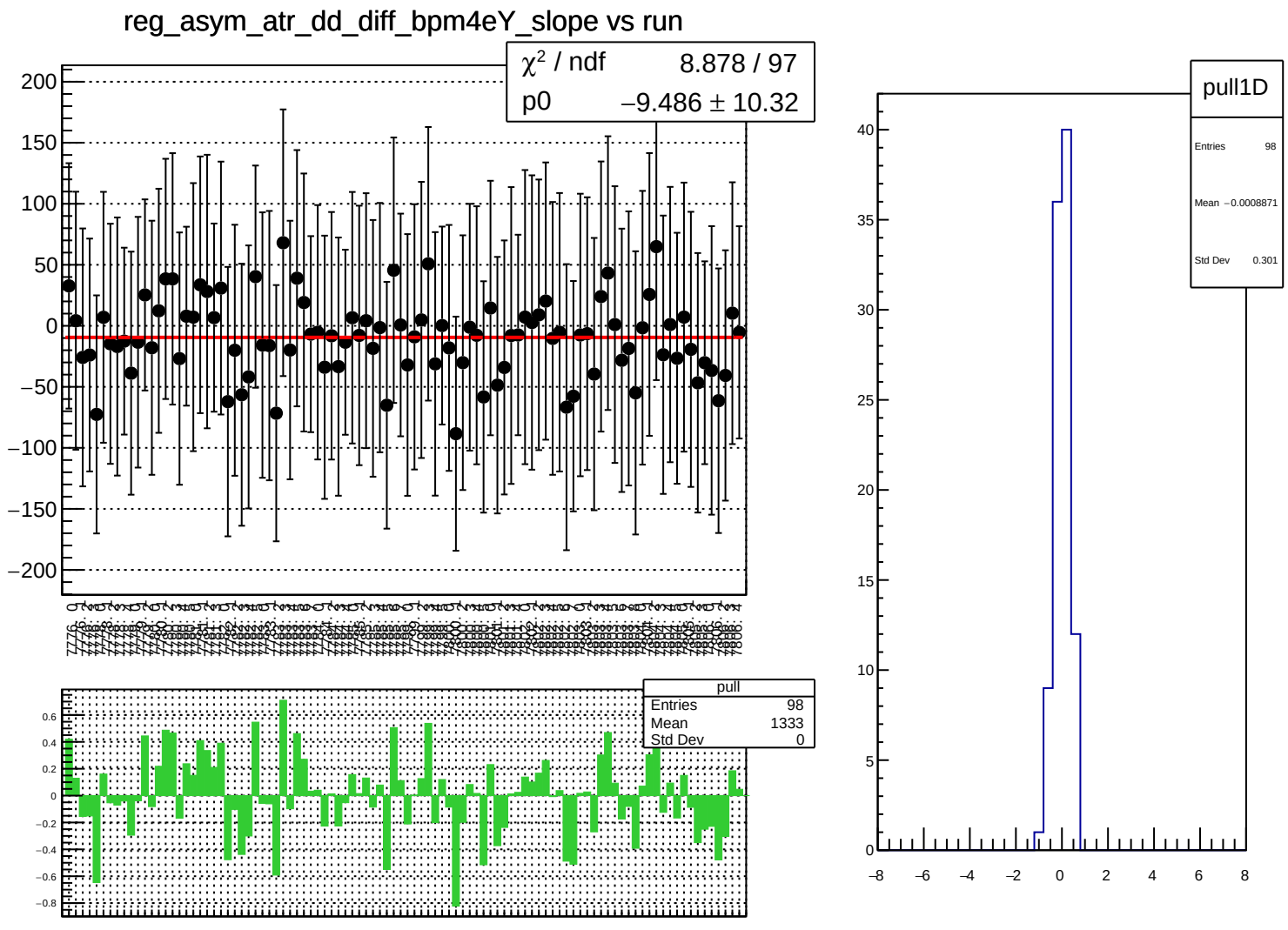

pull1D
Entries 98
Mean 0.003089
Std Dev 0.3154

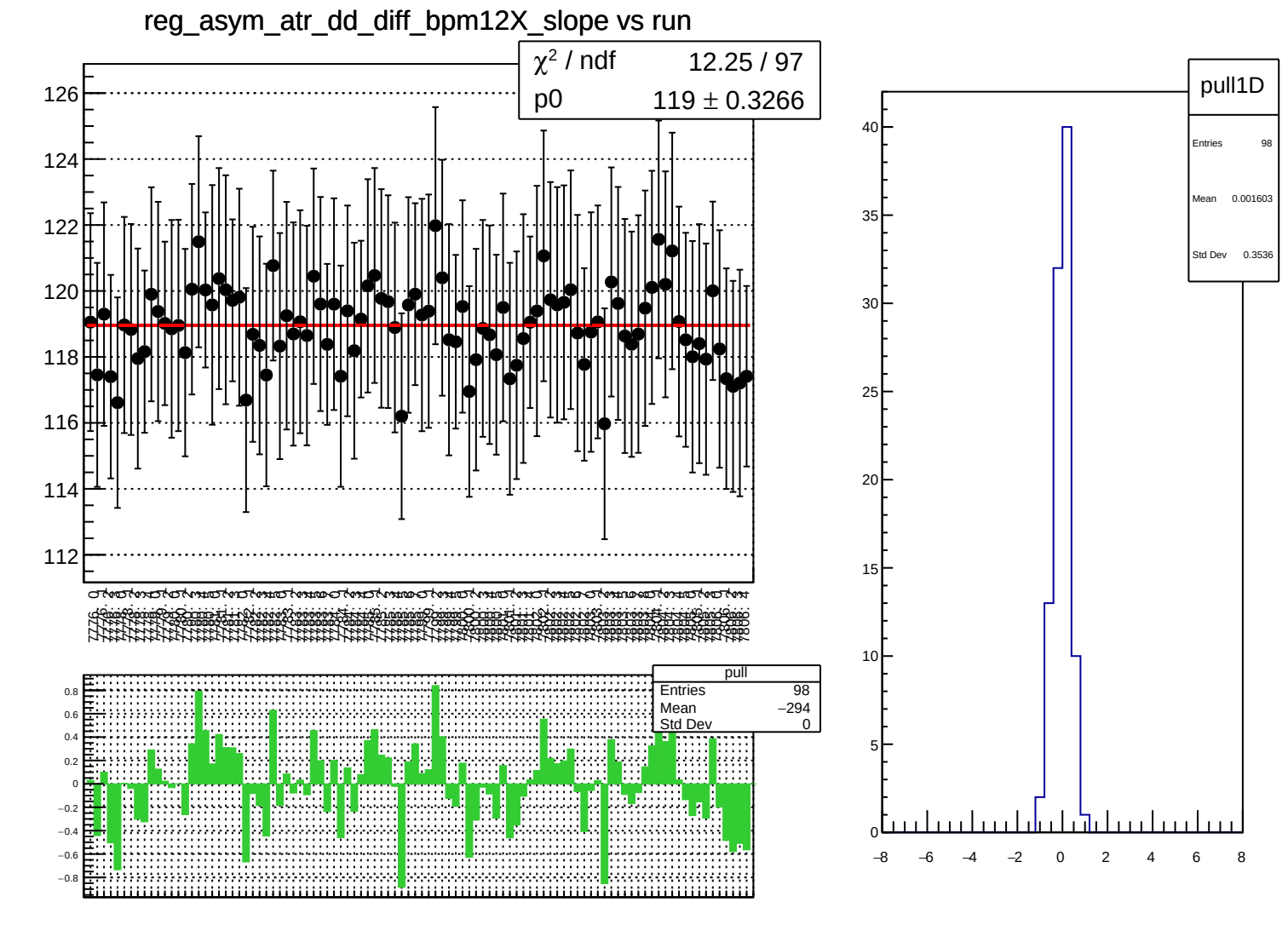

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.93 / 97
p0 −45.53 ± 9.124
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 1307
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

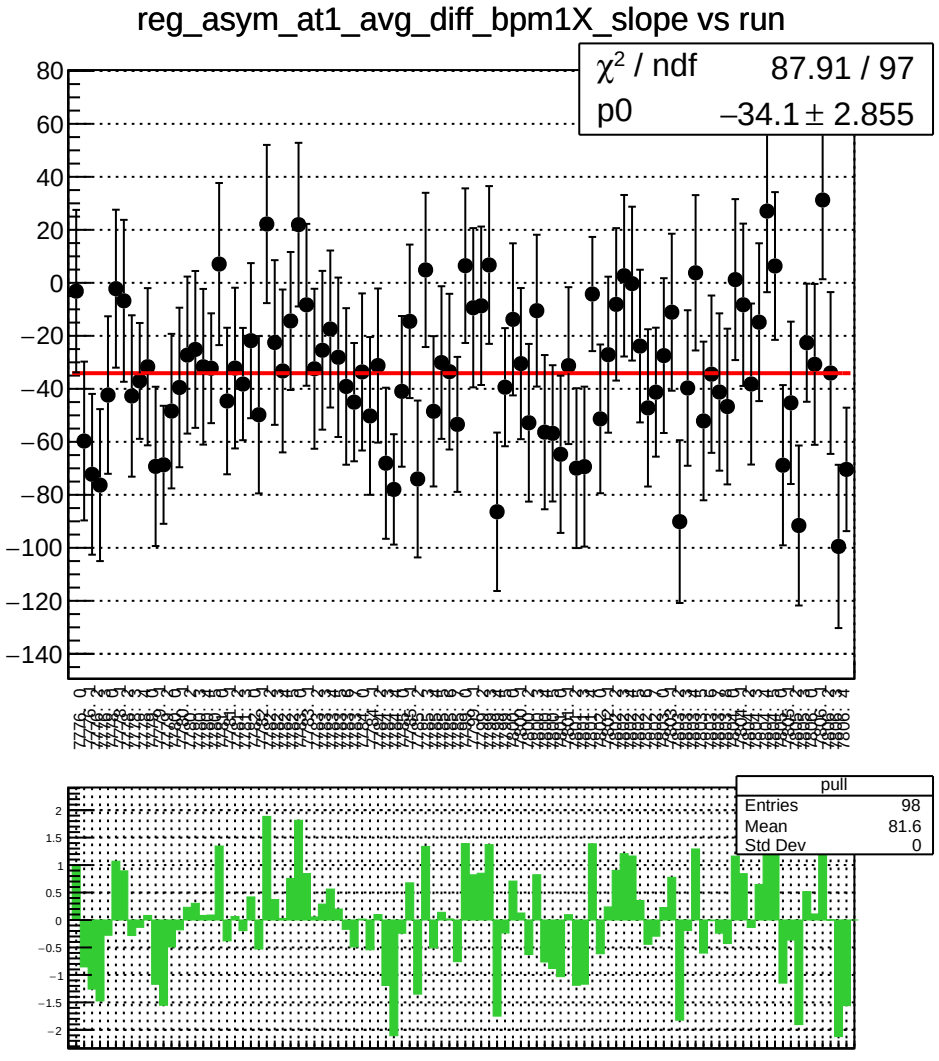

pull1D
Entries 98
Mean 0.001068
Std Dev 0.3019
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

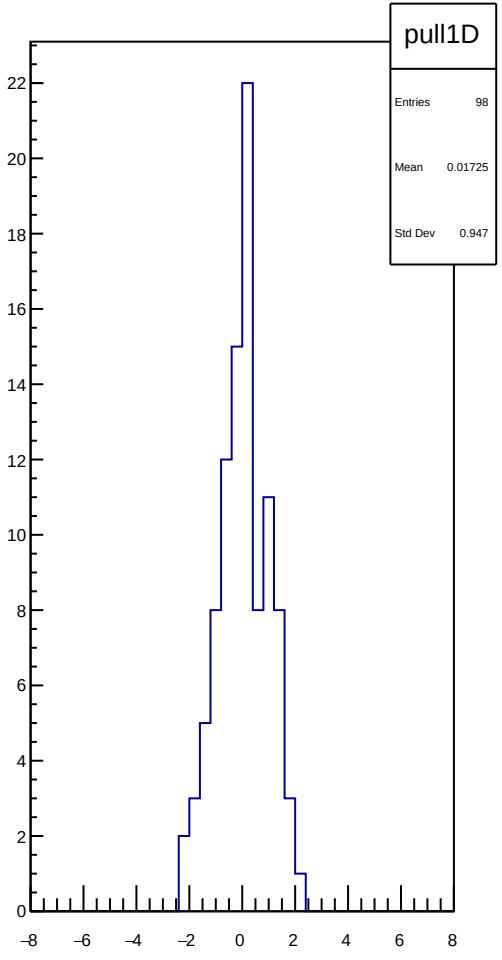

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.661 / 97
p0 −154.4 ± 7.72
pull
Entries 98
Mean 56.14
Std Dev 0

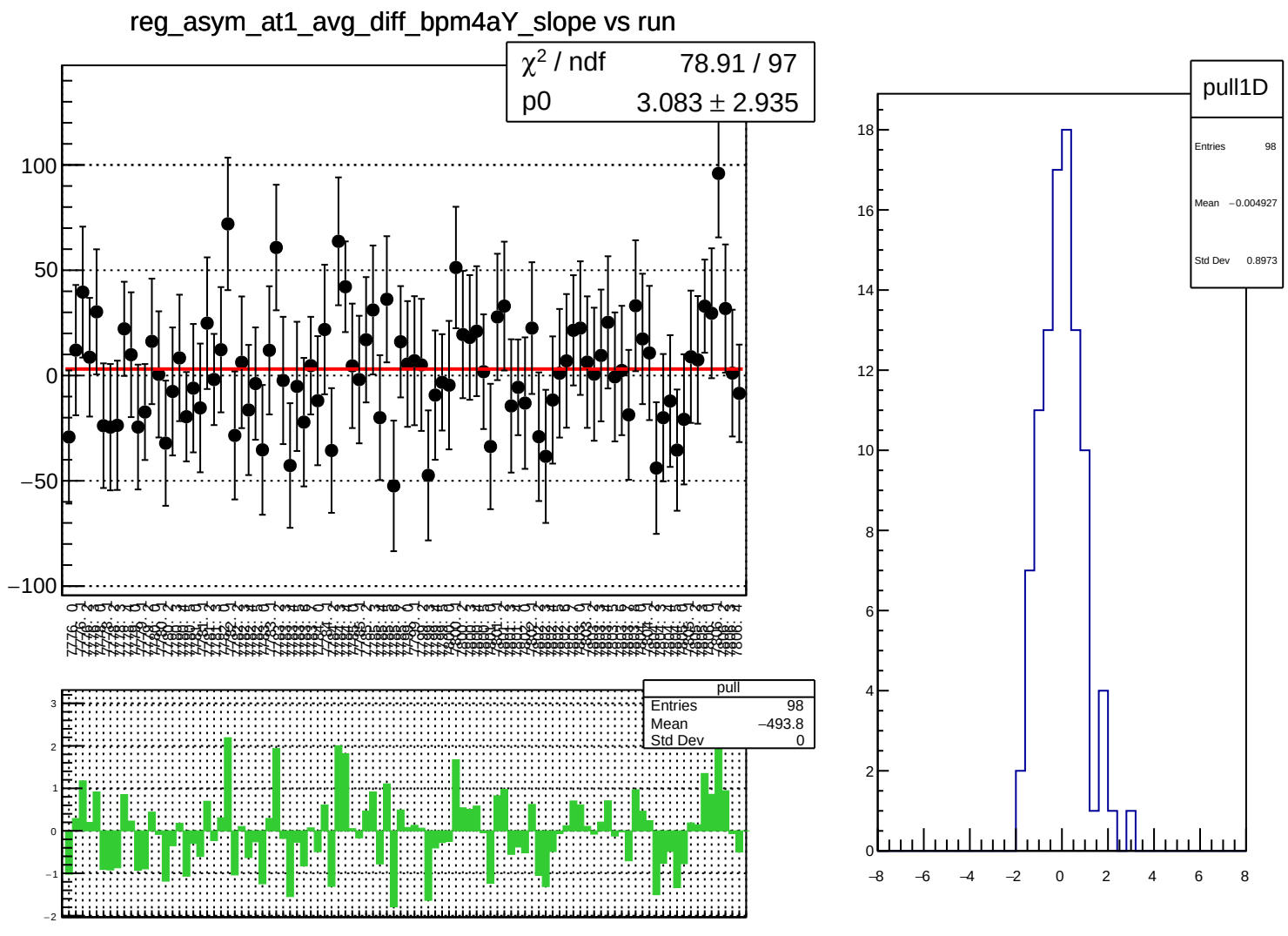

pull1D
Entries 98
Mean −0.002591
Std Dev 0.314

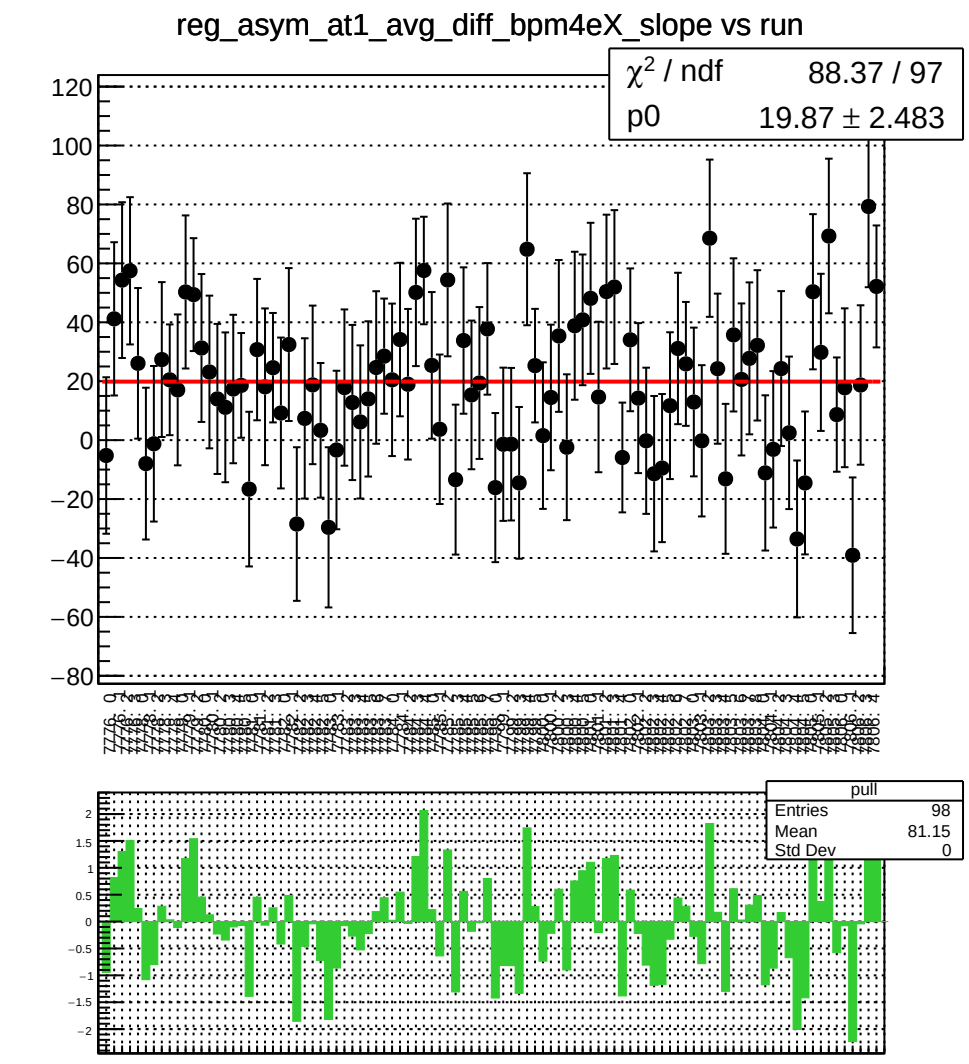

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.878 / 97
p0 −9.486 ± 10.32
pull
Entries 98
Mean 1333
Std Dev 0
pull1D
Entries 98
Mean −0.0008871
Std Dev 0.301

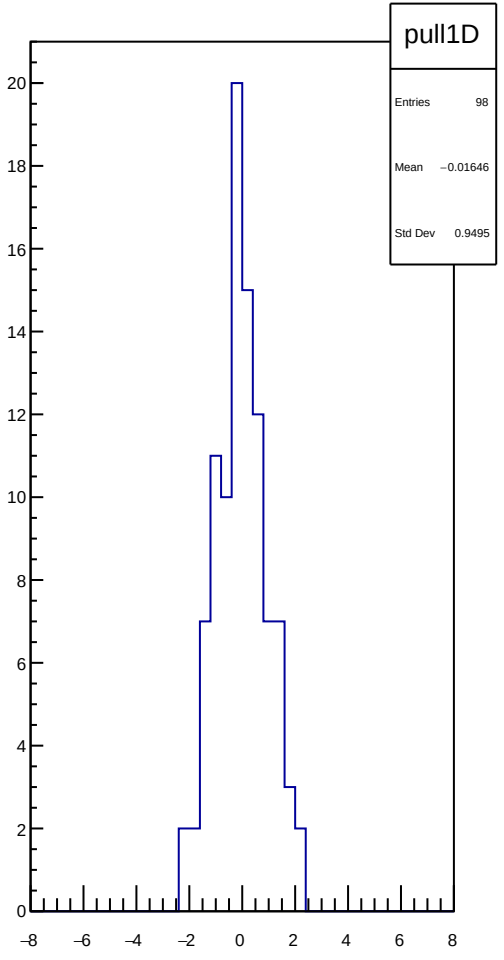

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 12.25 / 97
p0 119 ± 0.3266
126
124
122
120
118
116
114
112
pull
Entries 98
Mean −294
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean 0.001603
Std Dev 0.3536
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

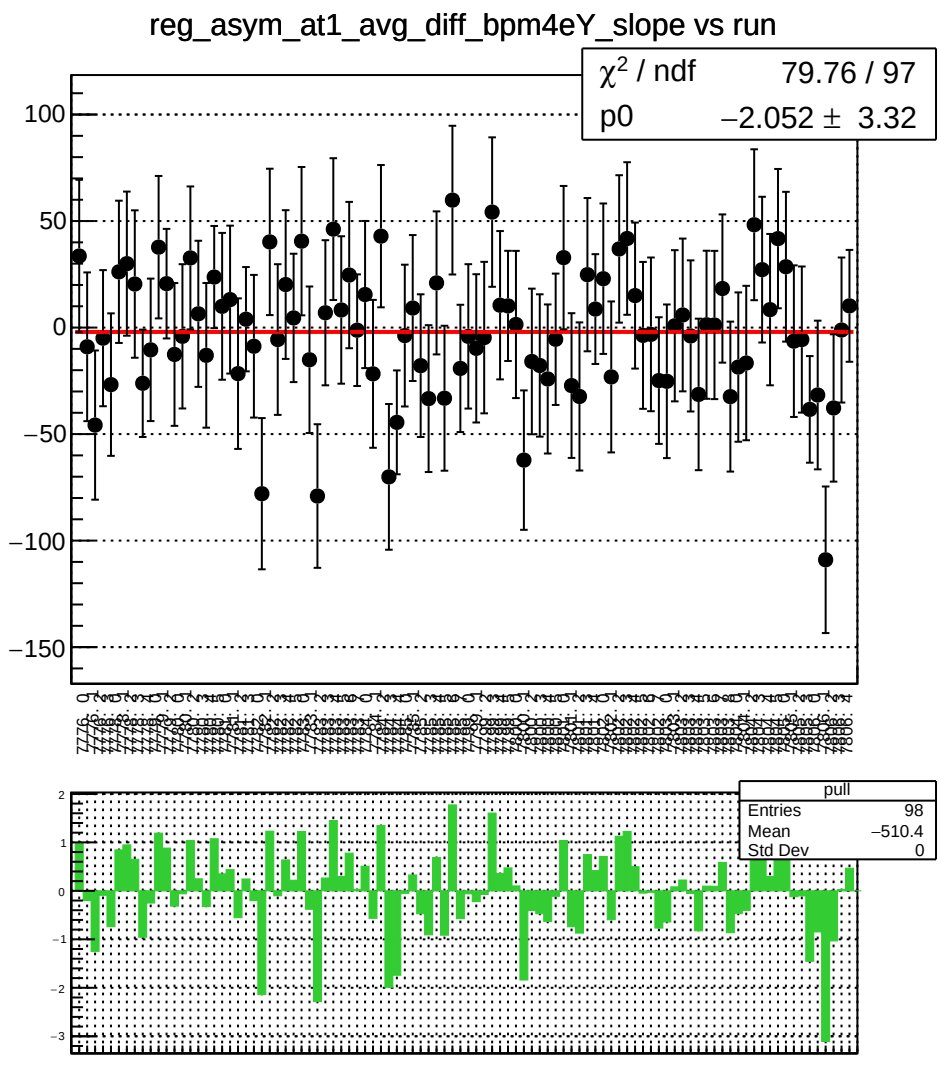

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 87.91 / 97
p0 −34.1 ± 2.855
pull
Entries 98
Mean 81.6
Std Dev 0

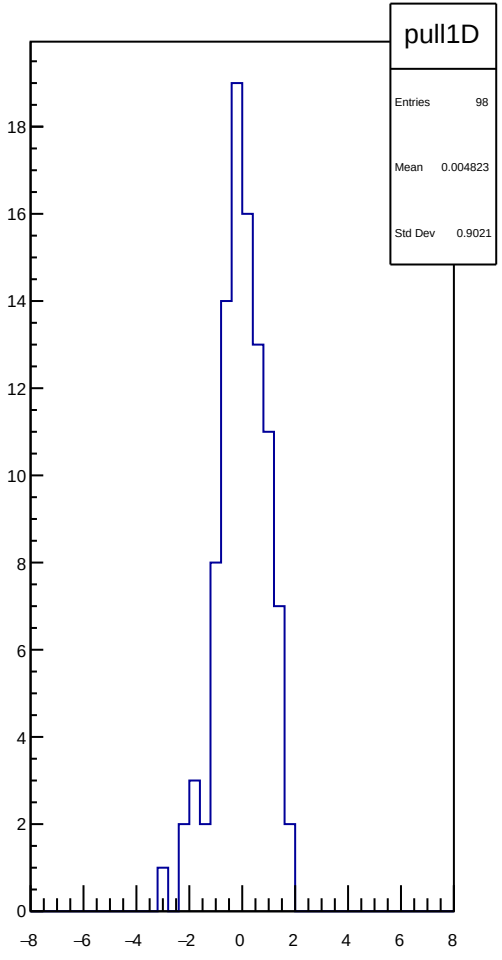

pull1D
Entries 98
Mean 0.01725
Std Dev 0.947

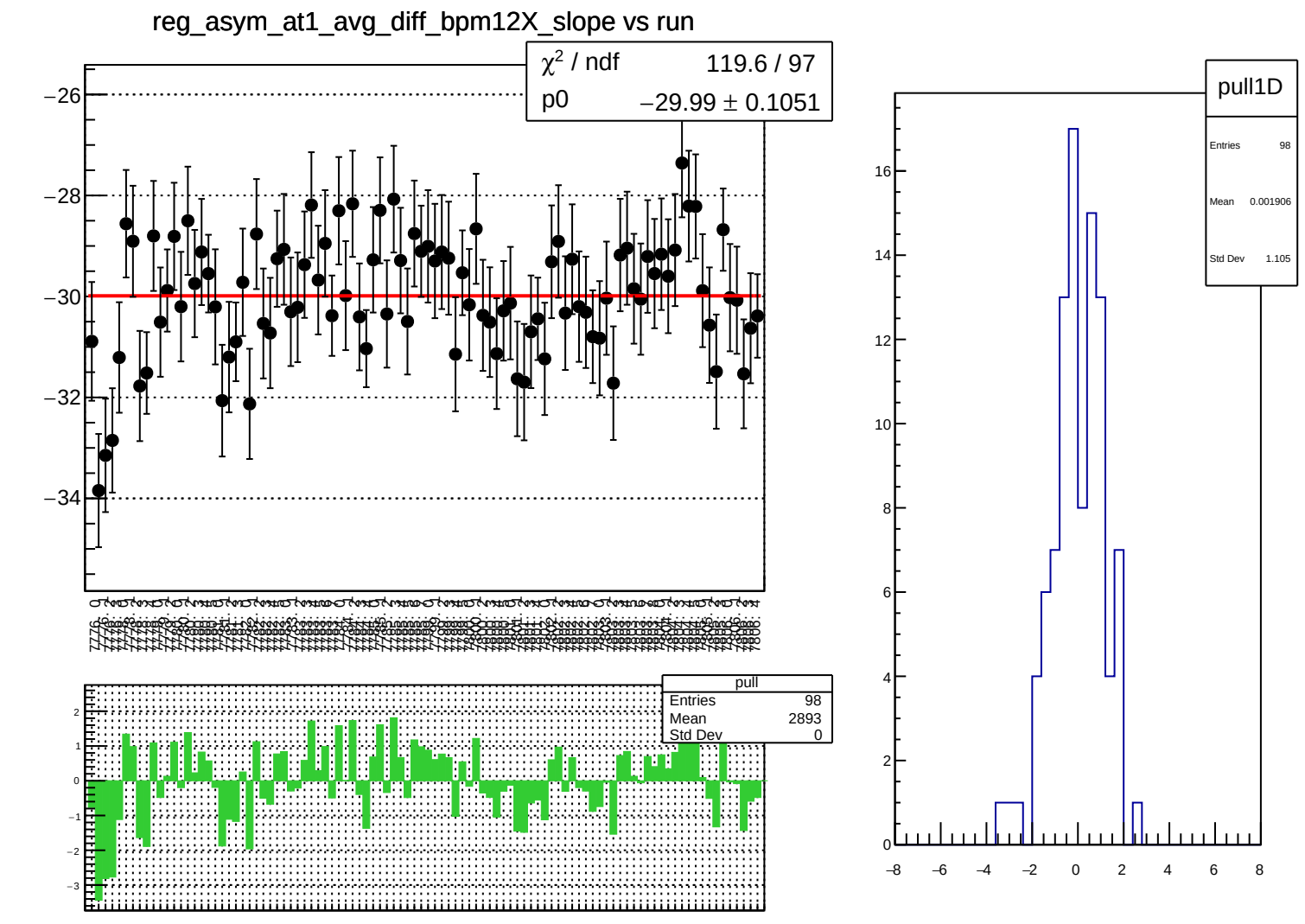

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.91 / 97
p0 3.083 ± 2.935
100
50
0
−50
−100
pull
Entries 98
Mean −493.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean −0.004927
Std Dev 0.8973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

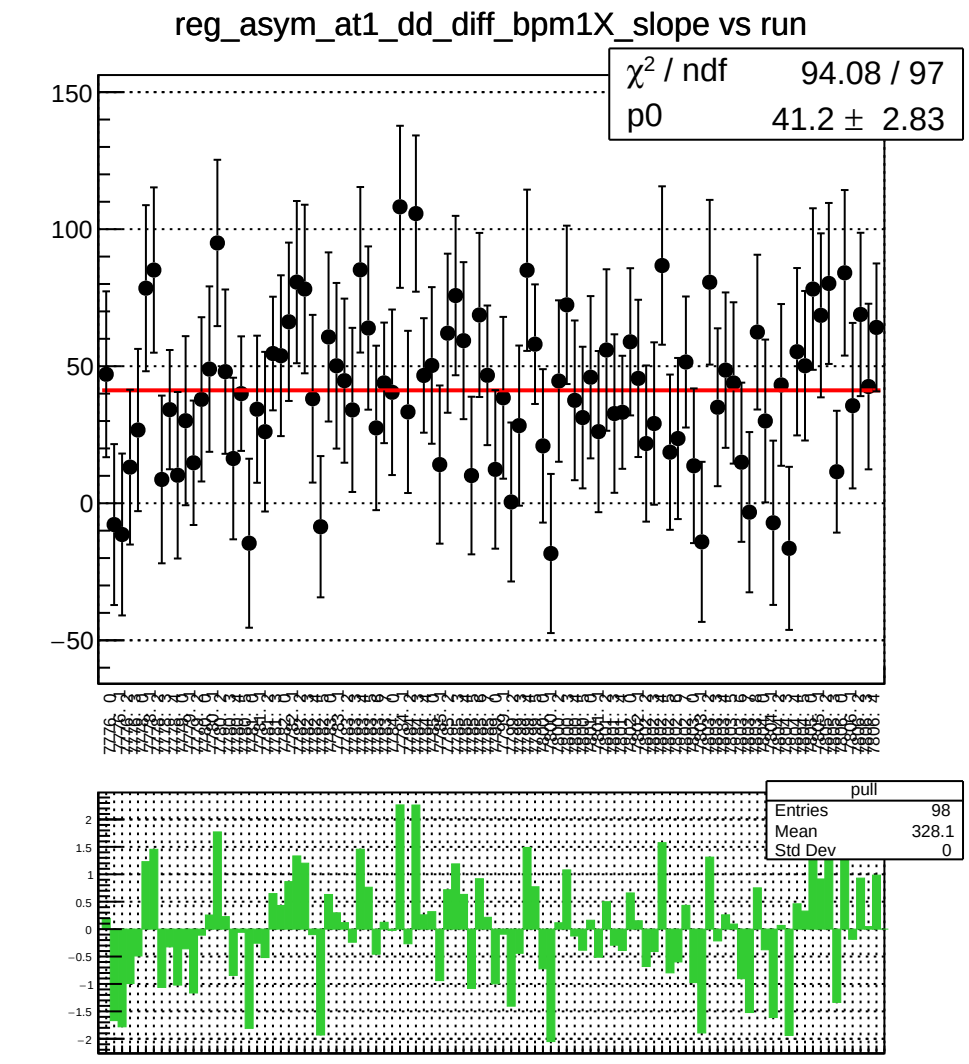

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.37 / 97
p0 19.87 ± 2.483
pull
Entries 98
Mean 81.15
Std Dev 0

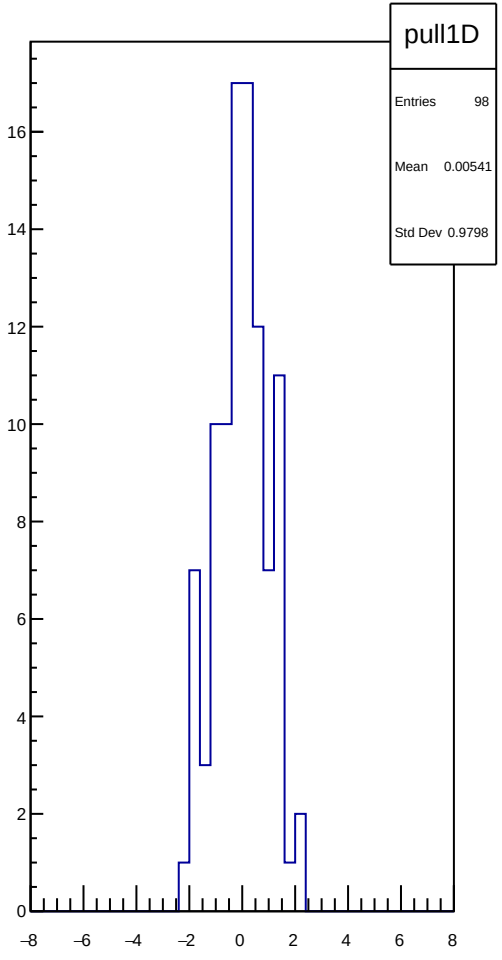

pull1D
Entries 98
Mean −0.01646
Std Dev 0.9495

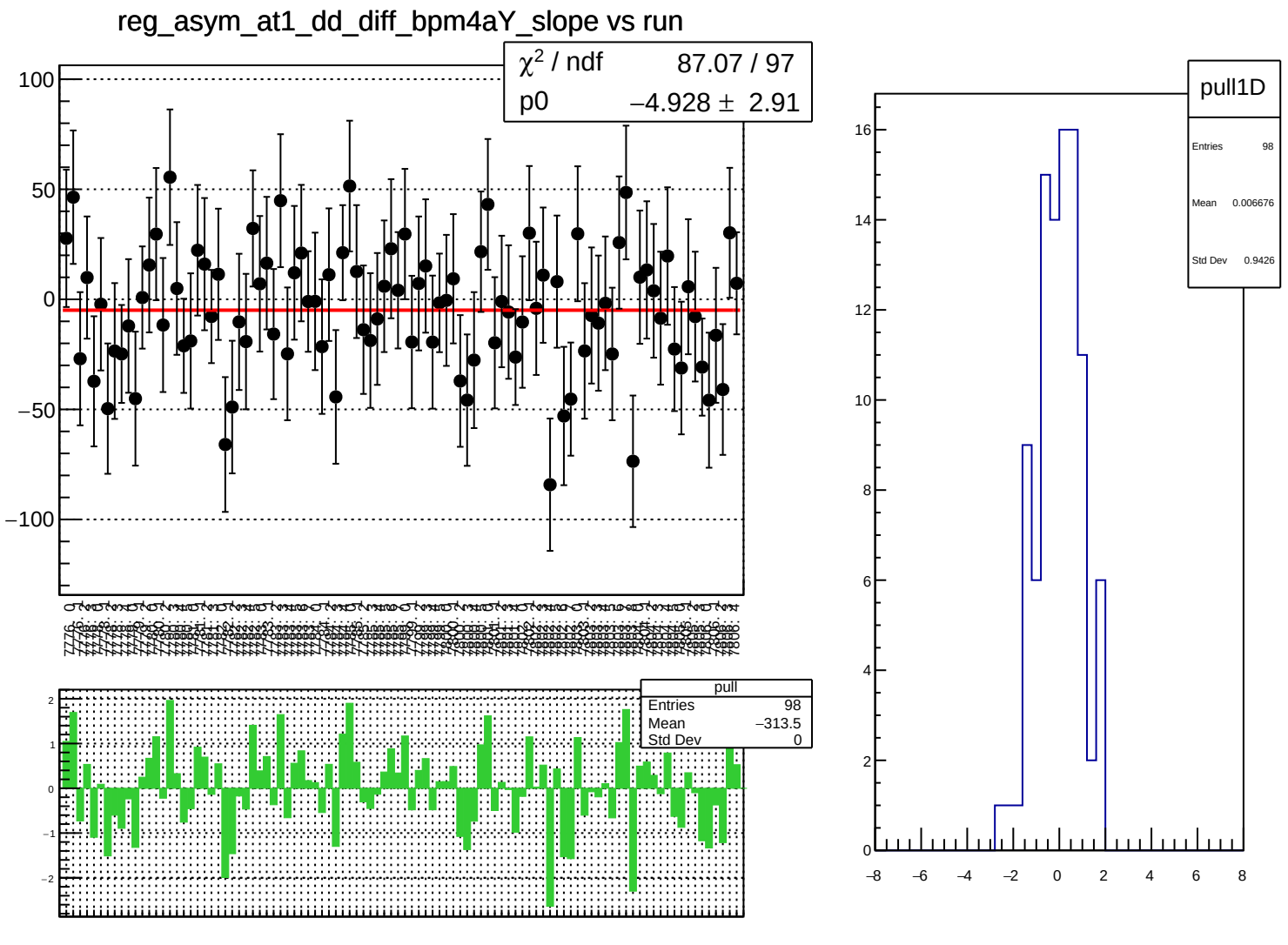

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.76 / 97
p0 −2.052 ± 3.32
100
50
0
−50
−100
−150
pull
Entries 98
Mean −510.4
Std Dev 0
2
1
0
−1
−2
−3

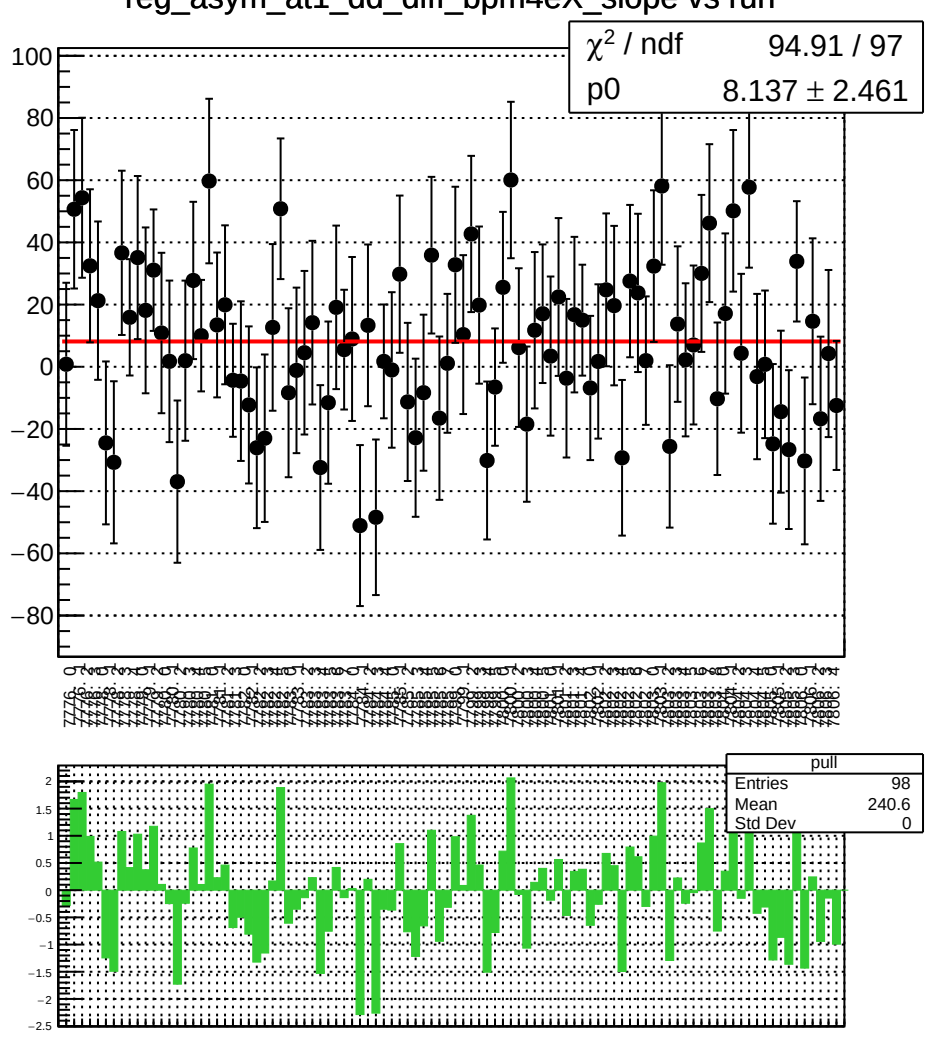

pull1D
Entries 98
Mean 0.004823
Std Dev 0.9021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

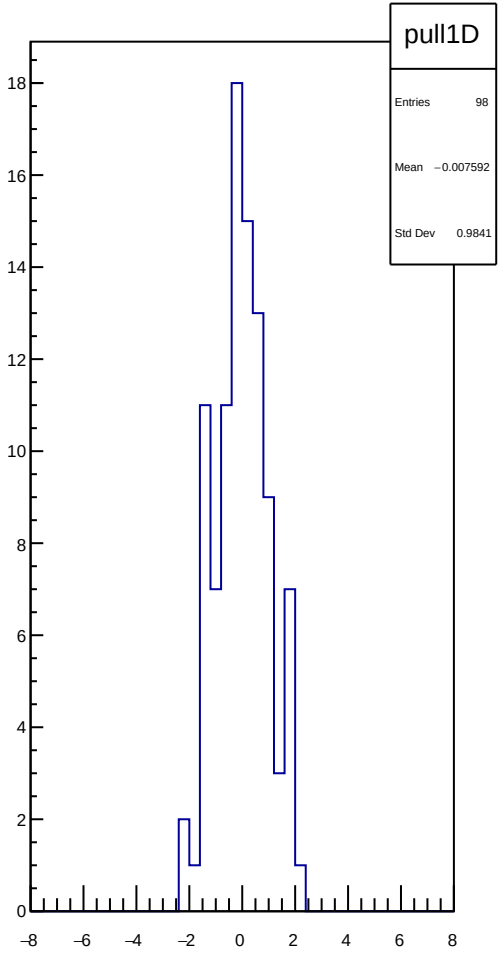

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 119.6 / 97
p0 −29.99 ± 0.1051
−26
−28
−30
−32
−34
pull
Entries 98
Mean 2893
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.001906
Std Dev 1.105
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

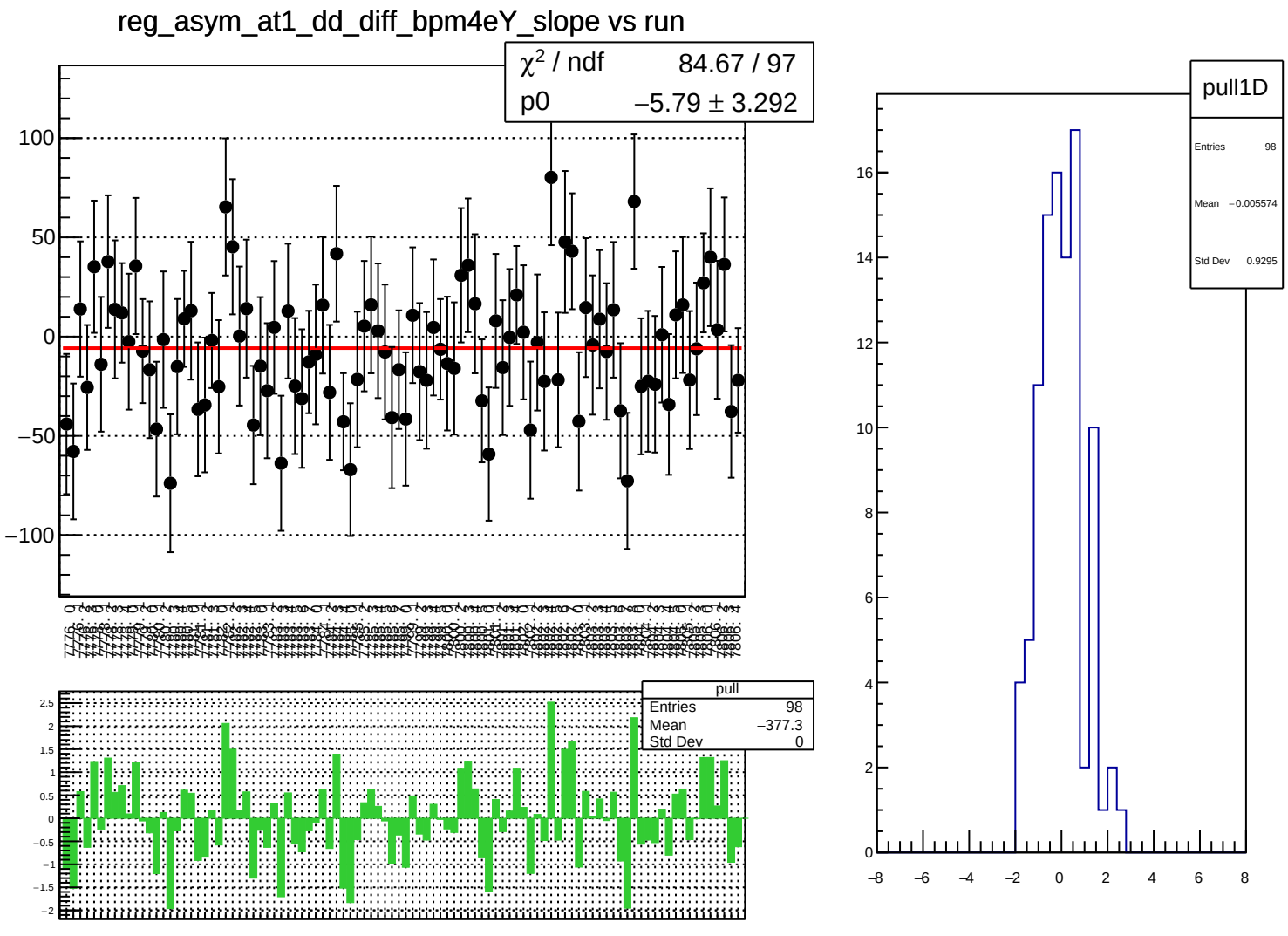

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 94.08 / 97
p0 41.2 ± 2.83
150
100
50
0
−50
pull
Entries 98
Mean 328.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

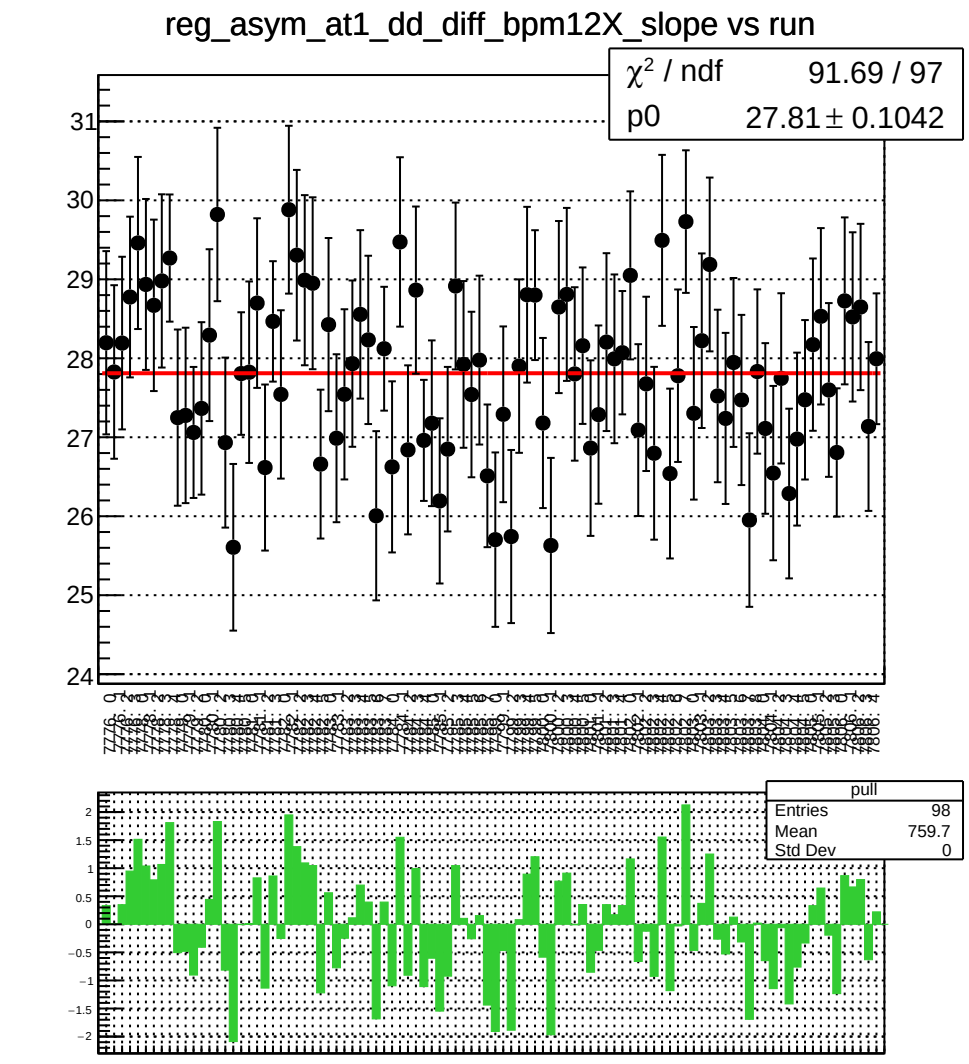

pull1D
Entries 98
Mean 0.00541
Std Dev 0.9798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

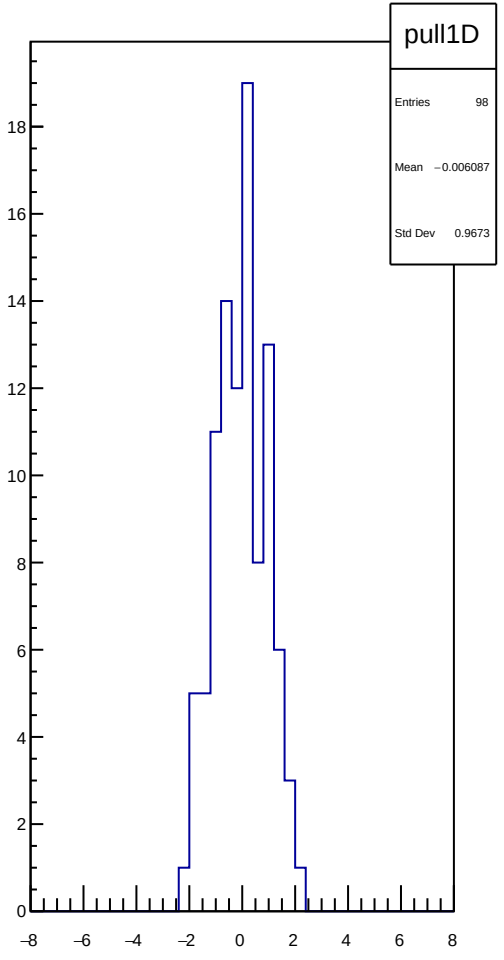

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 87.07 / 97
p0 −4.928 ± 2.91
100
50
0
−50
−100
pull
Entries 98
Mean −313.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.006676
Std Dev 0.9426
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

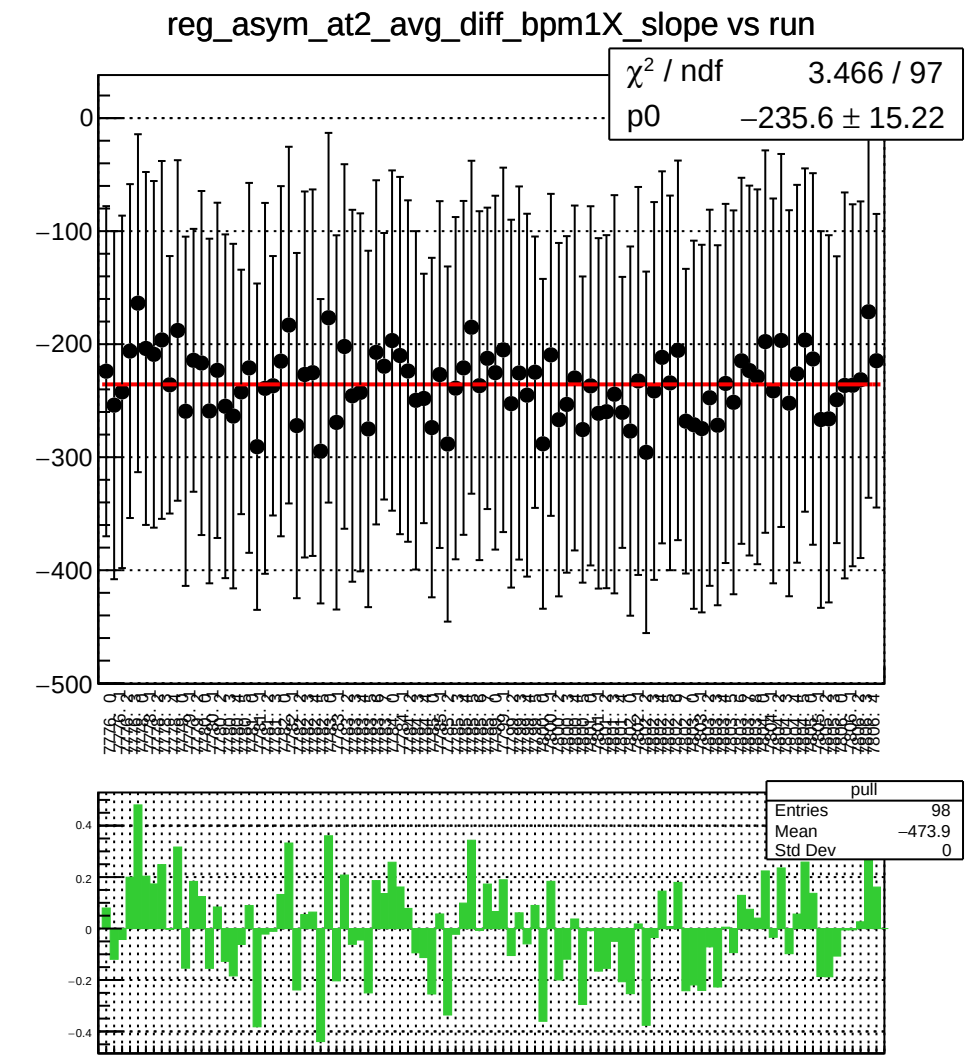

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 94.91 / 97
p0 8.137 ± 2.461
pull
Entries 98
Mean 240.6
Std Dev 0

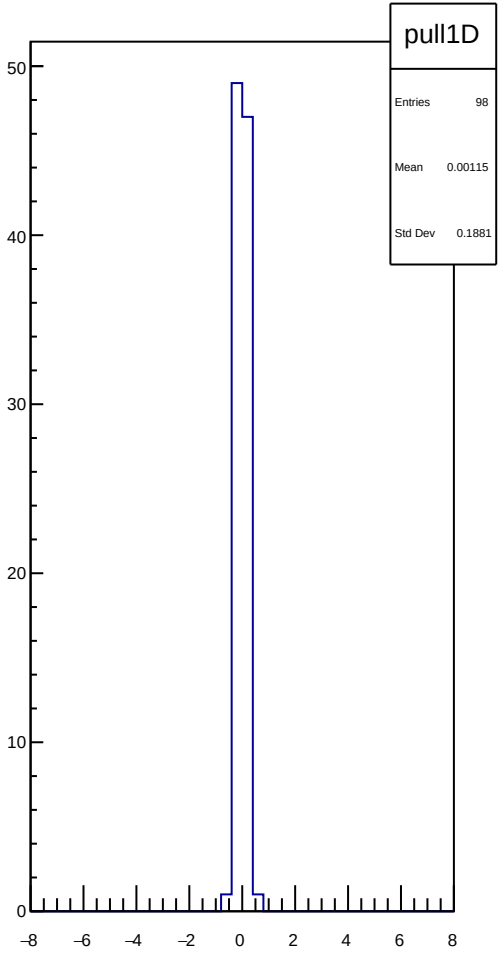

pull1D
Entries 98
Mean −0.007592
Std Dev 0.9841

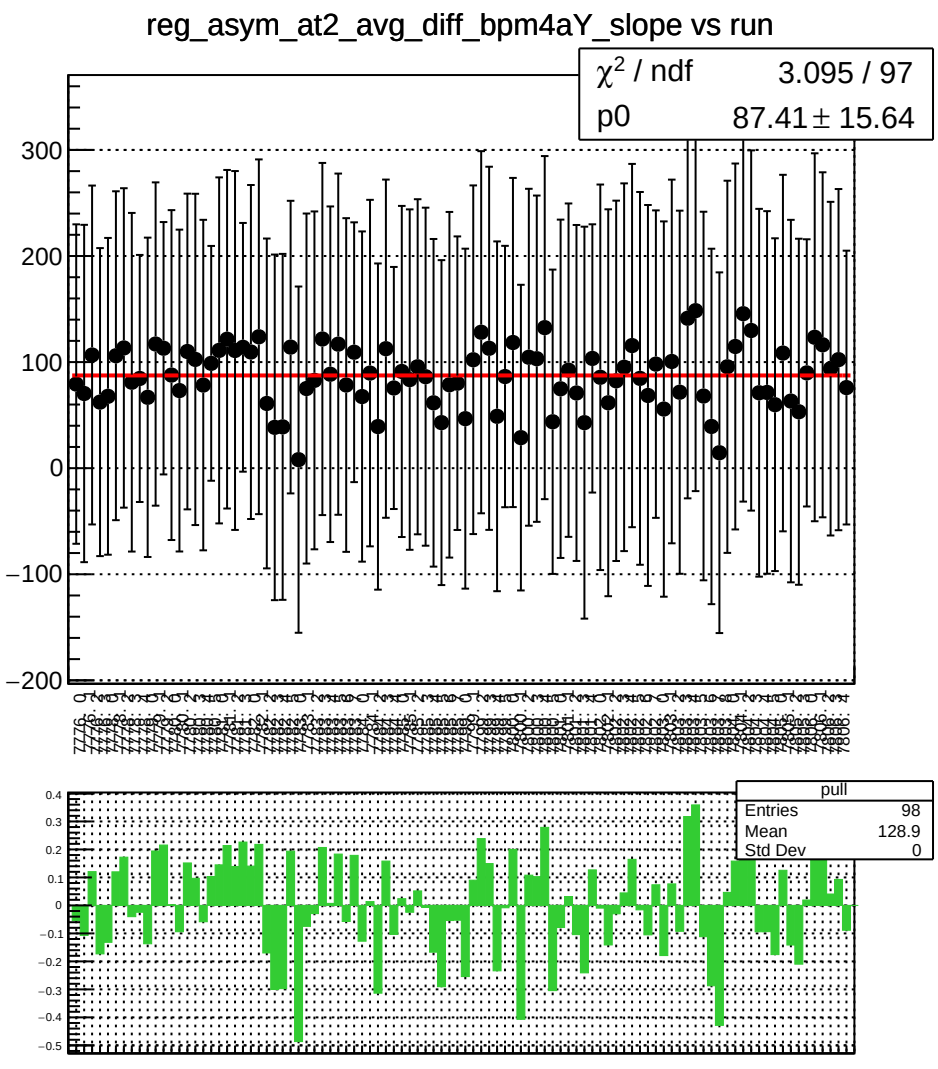

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.67 / 97
p0 −5.79 ± 3.292
100
50
0
−50
−100
pull
Entries 98
Mean −377.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.005574
Std Dev 0.9295
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

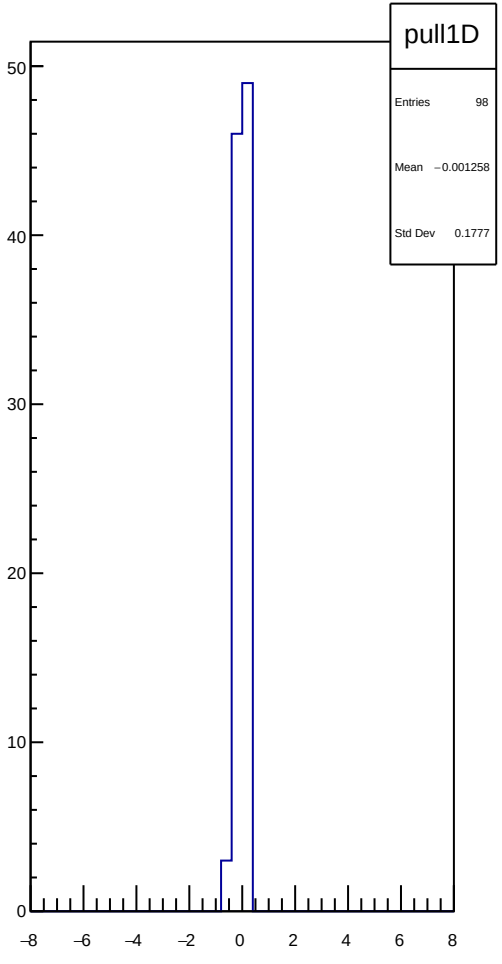

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 91.69 / 97
p0 27.81 ± 0.1042
pull
Entries 98
Mean 759.7
Std Dev 0

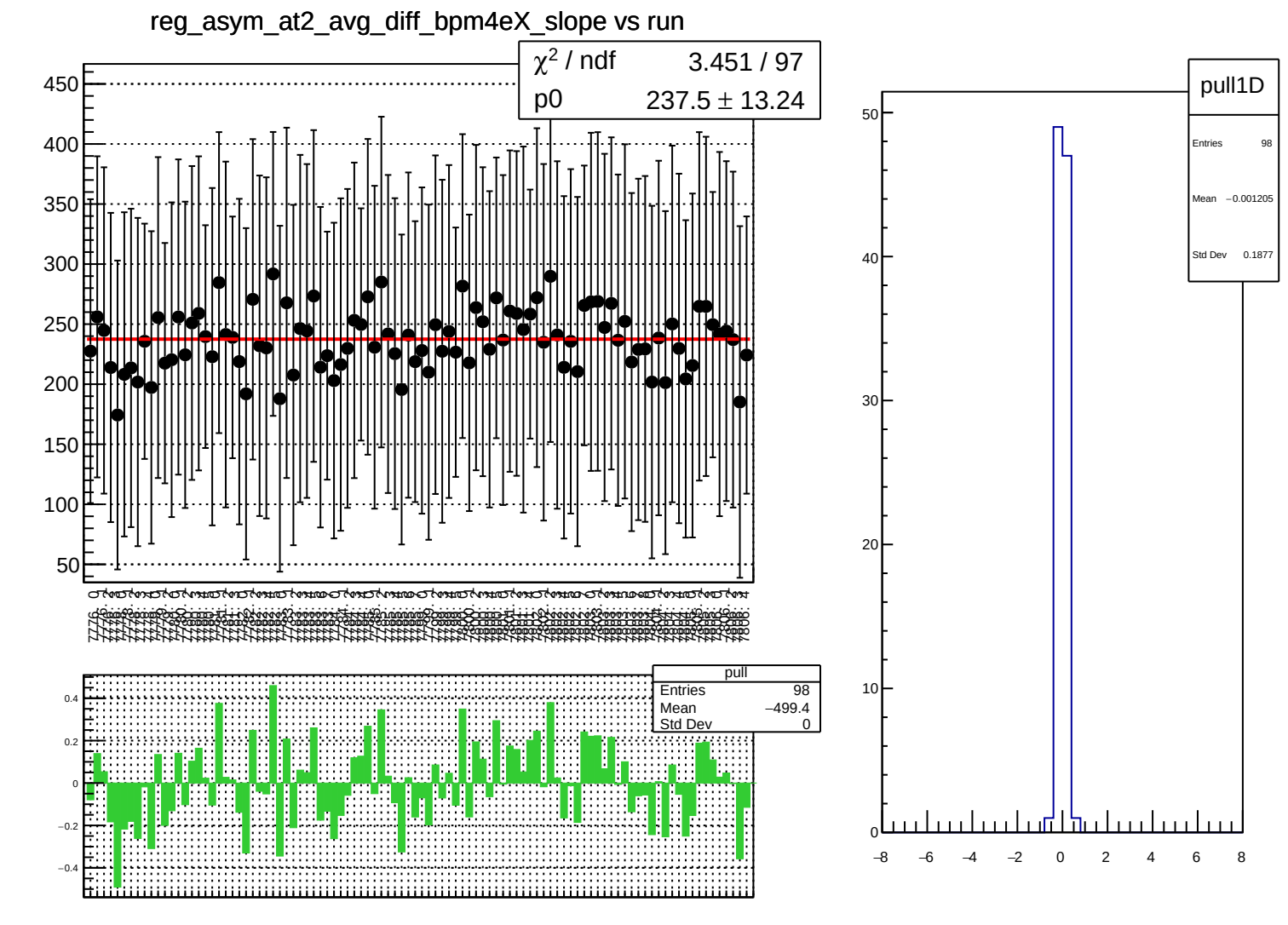

pull1D
Entries 98
Mean −0.006087
Std Dev 0.9673

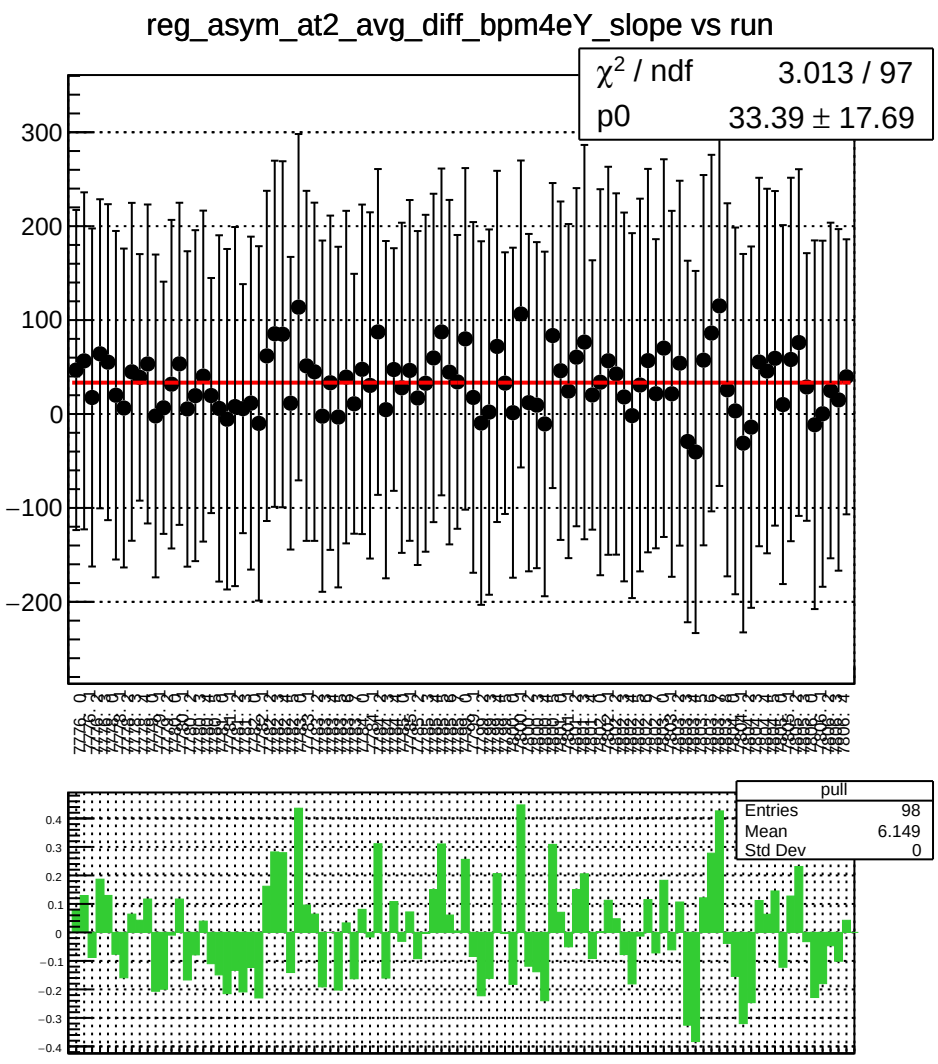

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.466 / 97
p0 −235.6 ± 15.22
0
−100
−200
−300
−400
−500
pull
Entries 98
Mean −473.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4

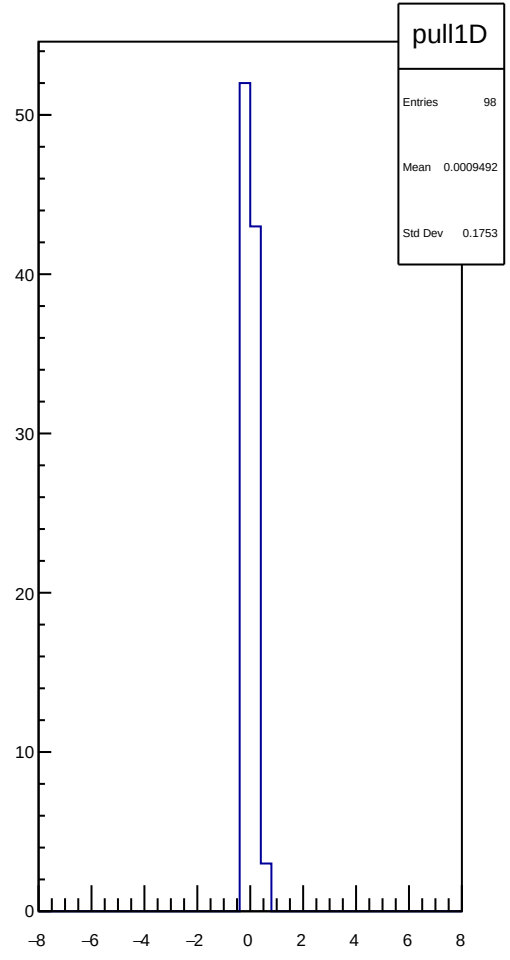

pull1D
Entries 98
Mean 0.00115
Std Dev 0.1881
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

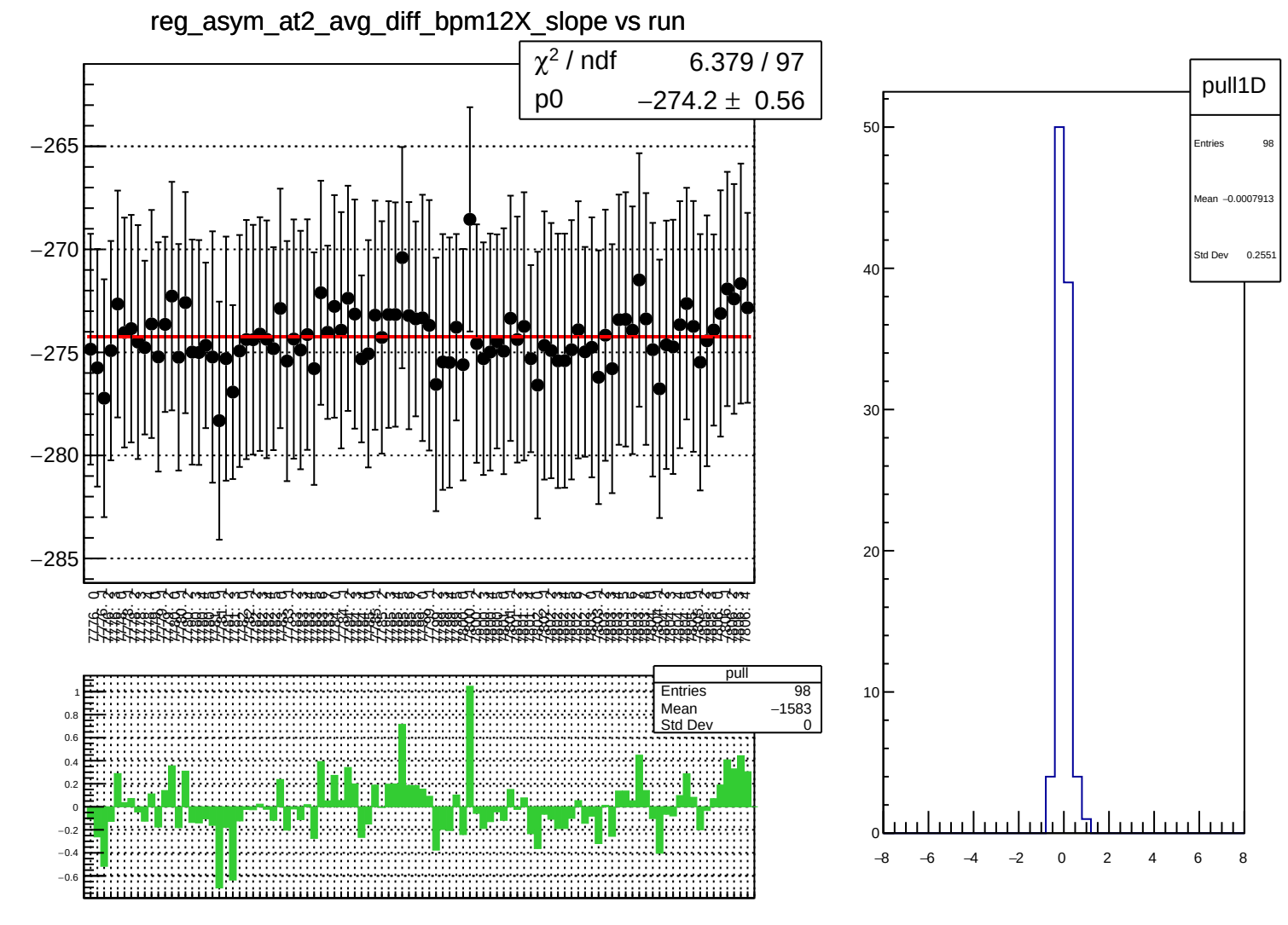

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.095 / 97
p0 87.41 ± 15.64
300
200
100
0
−100
−200
pull
Entries 98
Mean 128.9
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

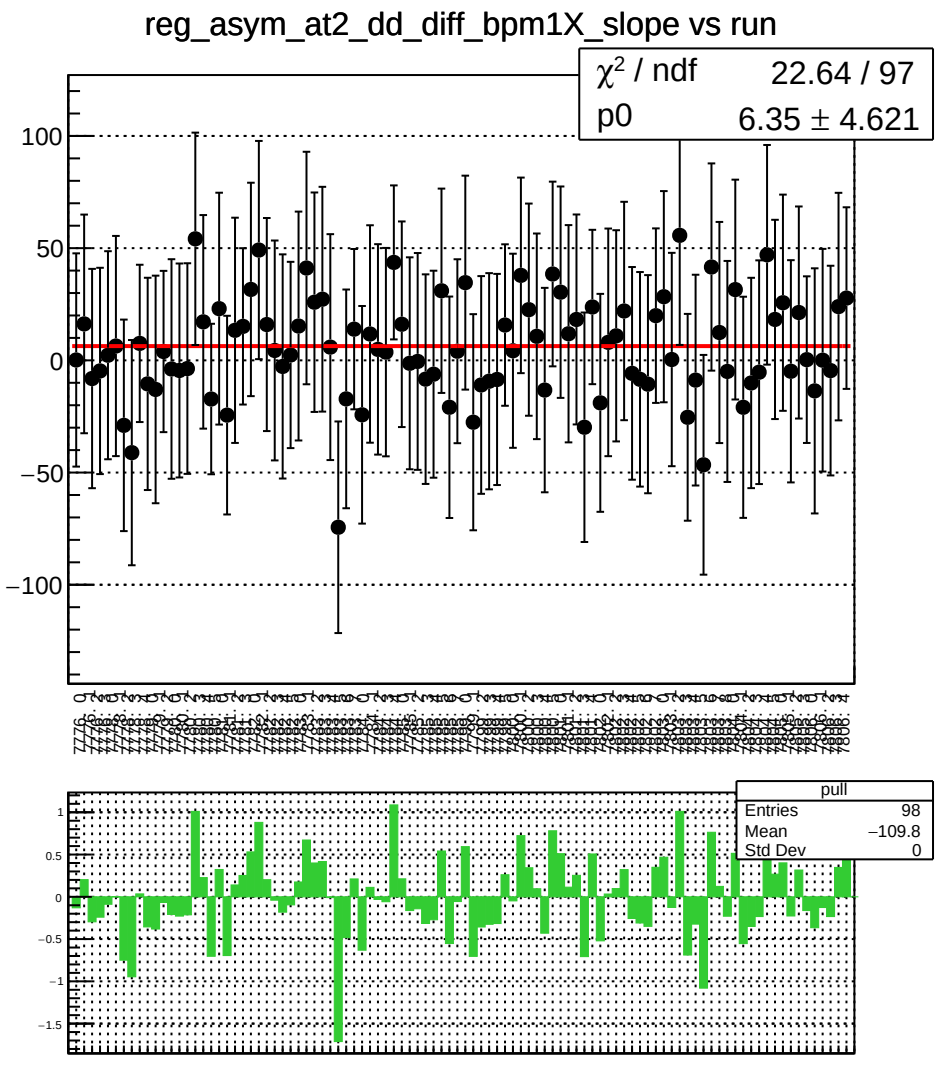

pull1D
Entries 98
Mean −0.001258
Std Dev 0.1777
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

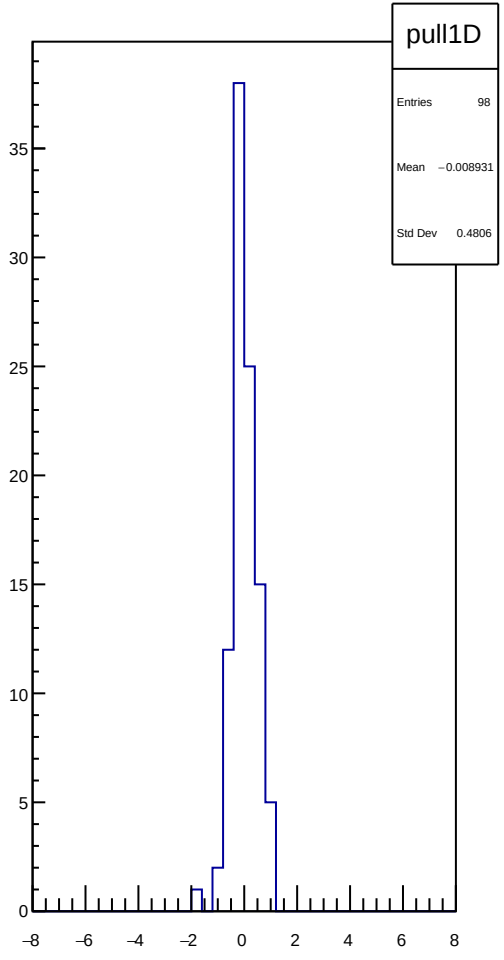

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.451 / 97
p0 237.5 ± 13.24
pull
Entries 98
Mean −499.4
Std Dev 0
pull1D
Entries 98
Mean −0.001205
Std Dev 0.1877

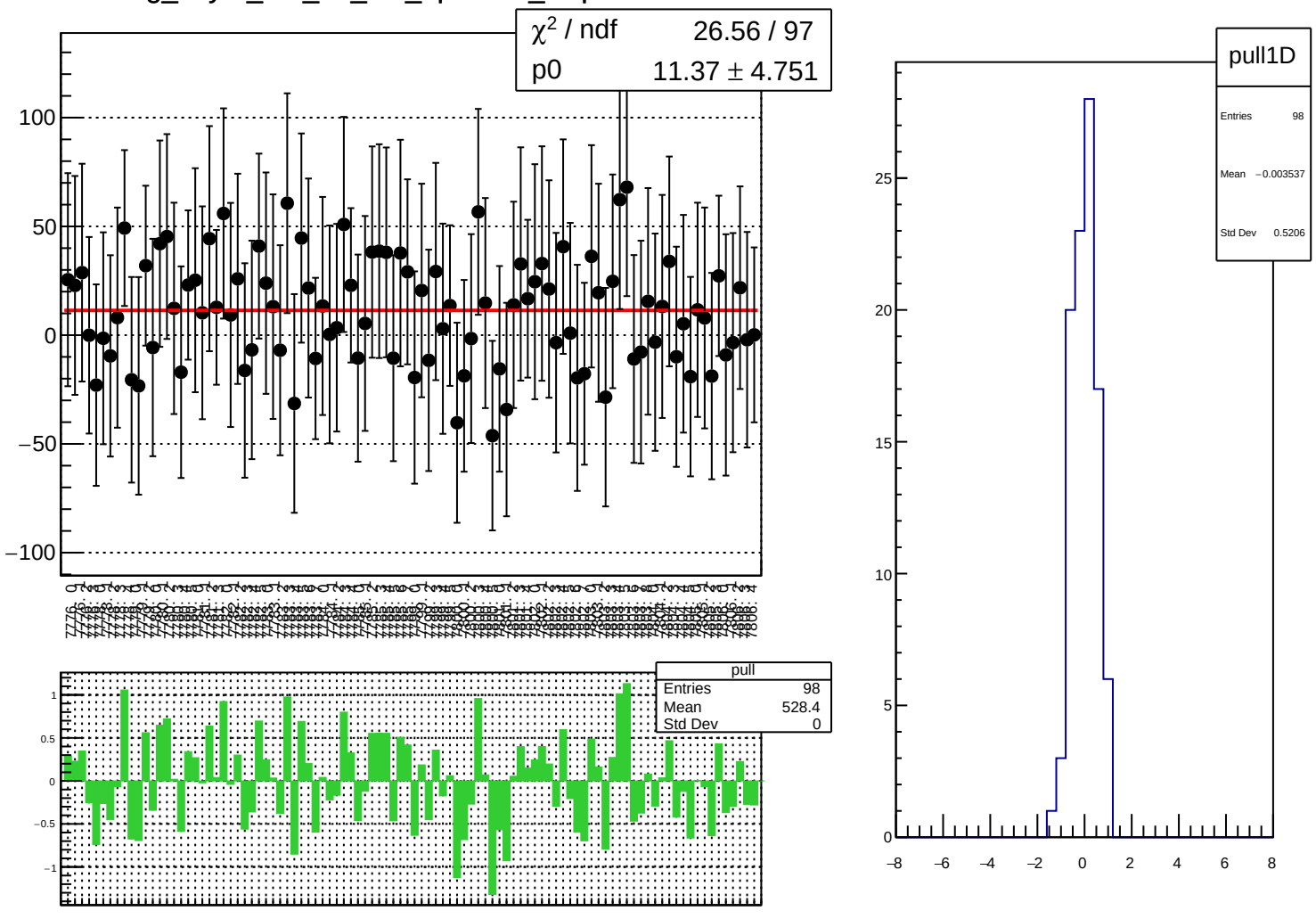

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.013 / 97
p0 33.39 ± 17.69
300
200
100
0
−100
−200
pull
Entries 98
Mean 6.149
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

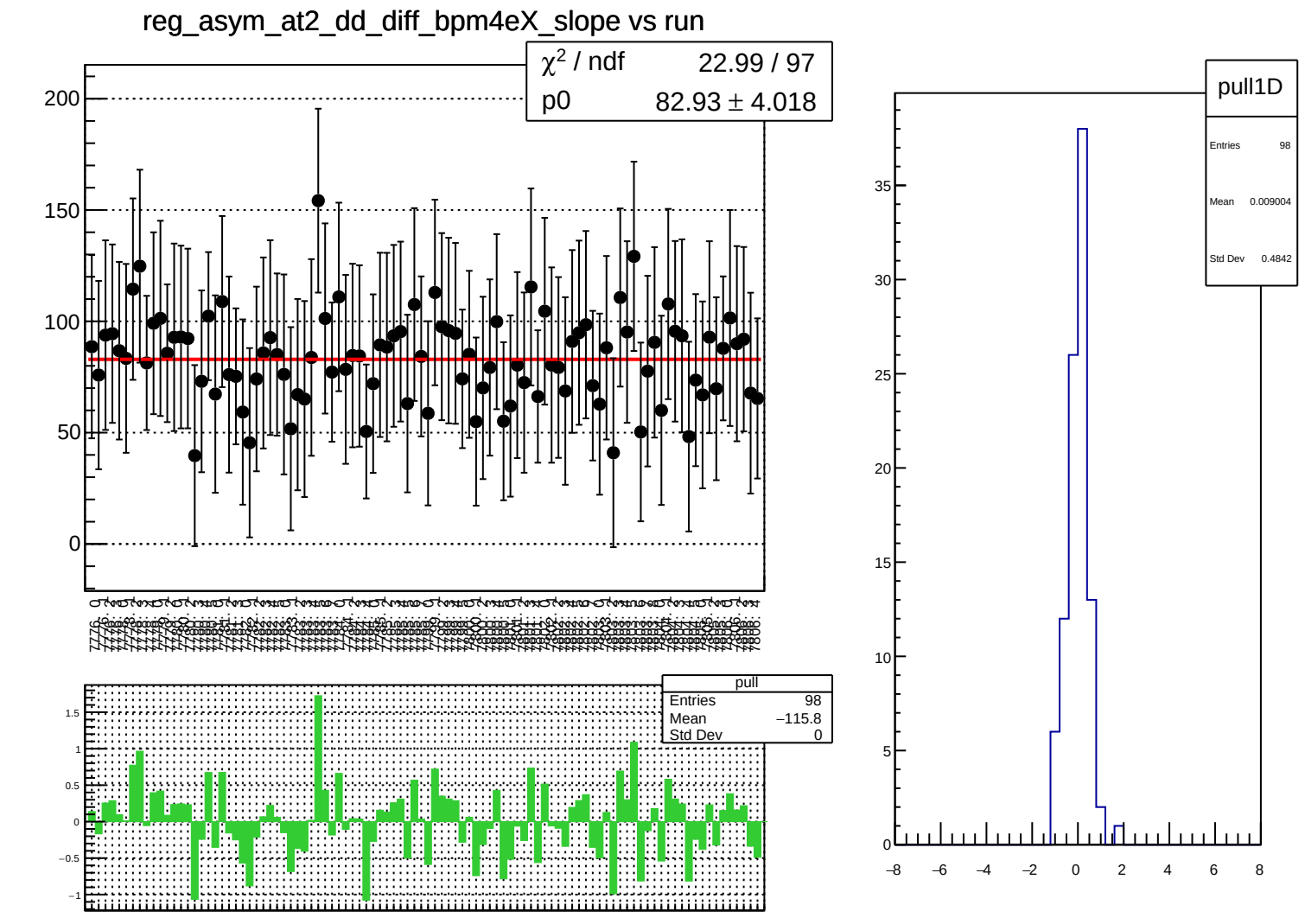

pull1D
Entries 98
Mean 0.0009492
Std Dev 0.1753
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

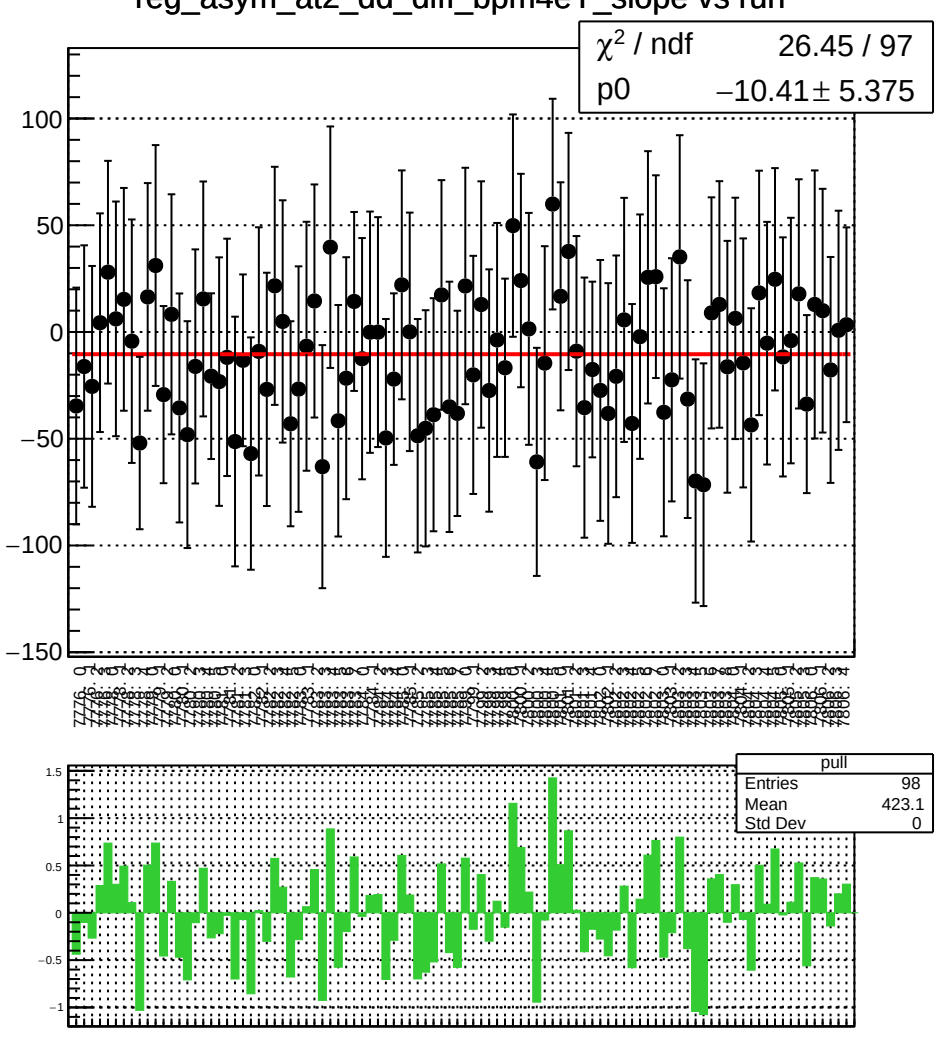

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 6.379 / 97
p0 −274.2 ± 0.56
−265
−270
−275
−280
−285
pull
Entries 98
Mean −1583
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean −0.0007913
Std Dev 0.2551
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

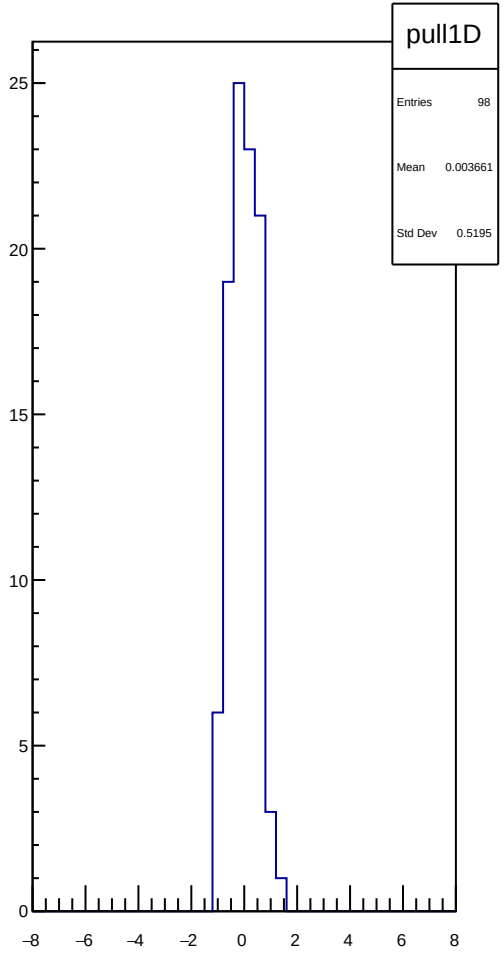

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 22.64 / 97
p0 6.35 ± 4.621
100
50
0
−50
−100
pull
Entries 98
Mean −109.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

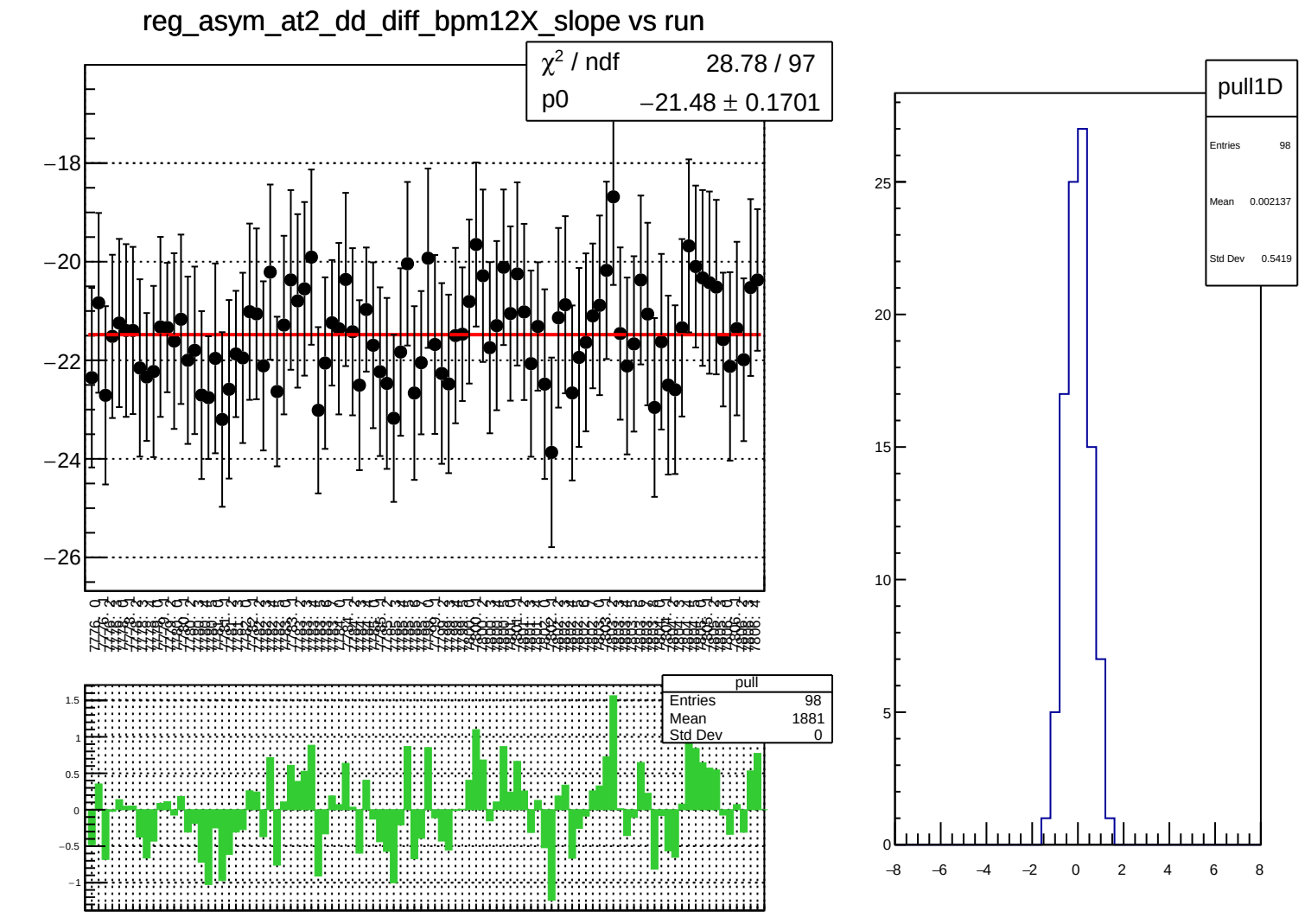

pull1D
Entries 98
Mean −0.008931
Std Dev 0.4806
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

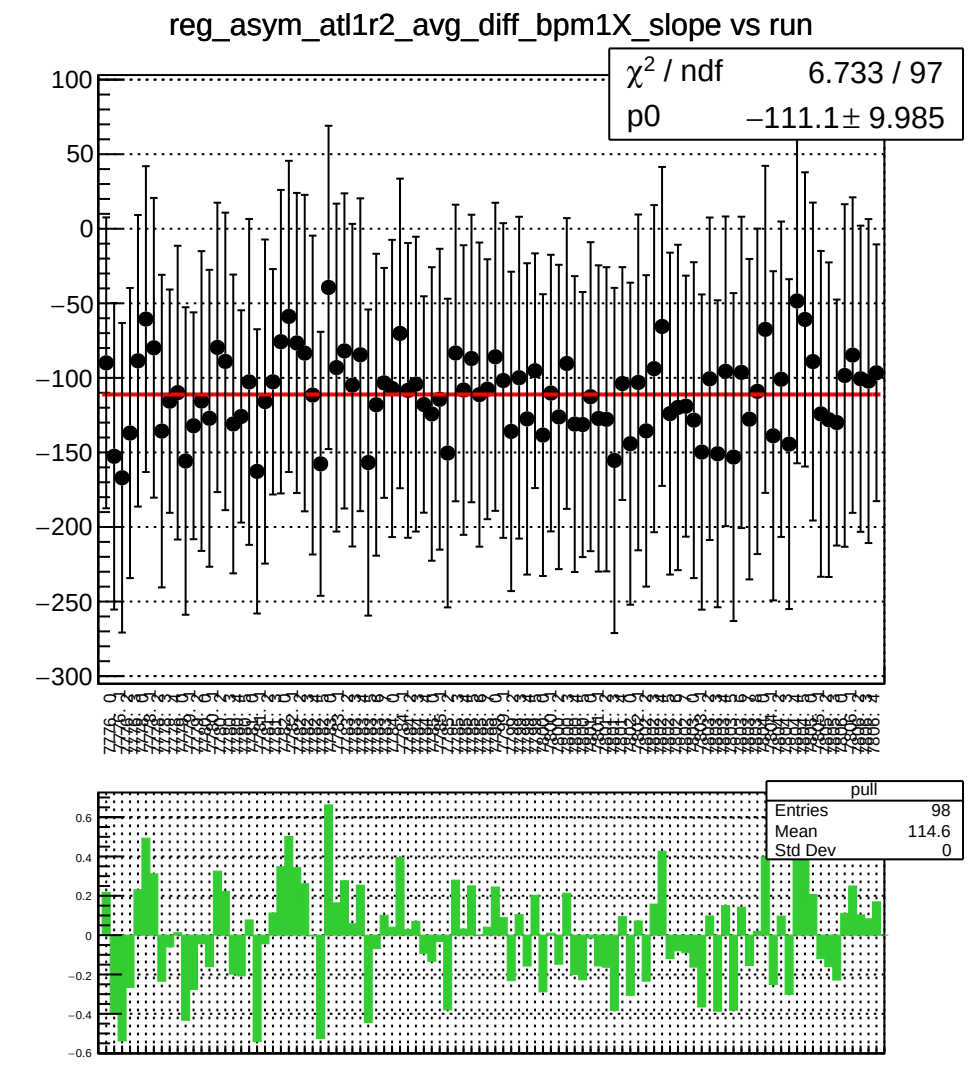

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.56 / 97
p0 11.37 ± 4.751
100
50
0
−50
−100
pull
Entries 98
Mean 528.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean −0.003537
Std Dev 0.5206
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

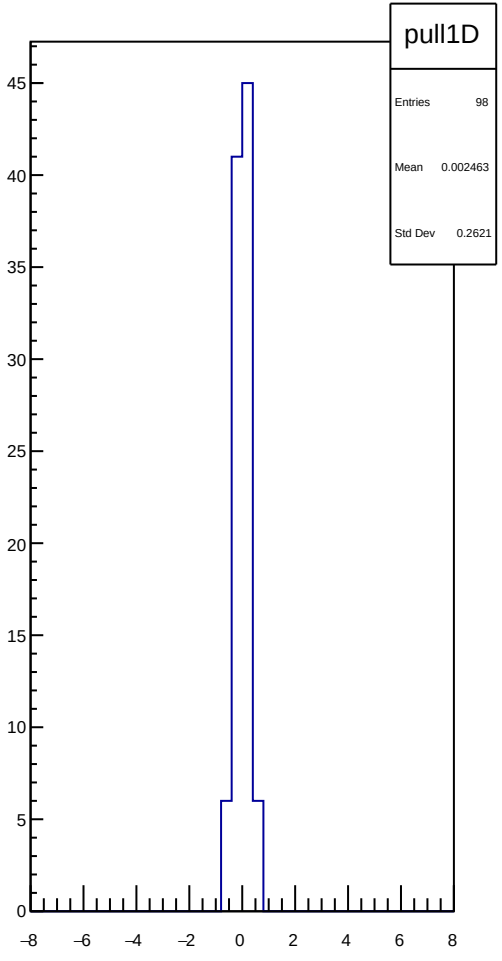

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.99 / 97
p0 82.93 ± 4.018
200
150
100
50
0
pull
Entries 98
Mean −115.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean 0.009004
Std Dev 0.4842
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

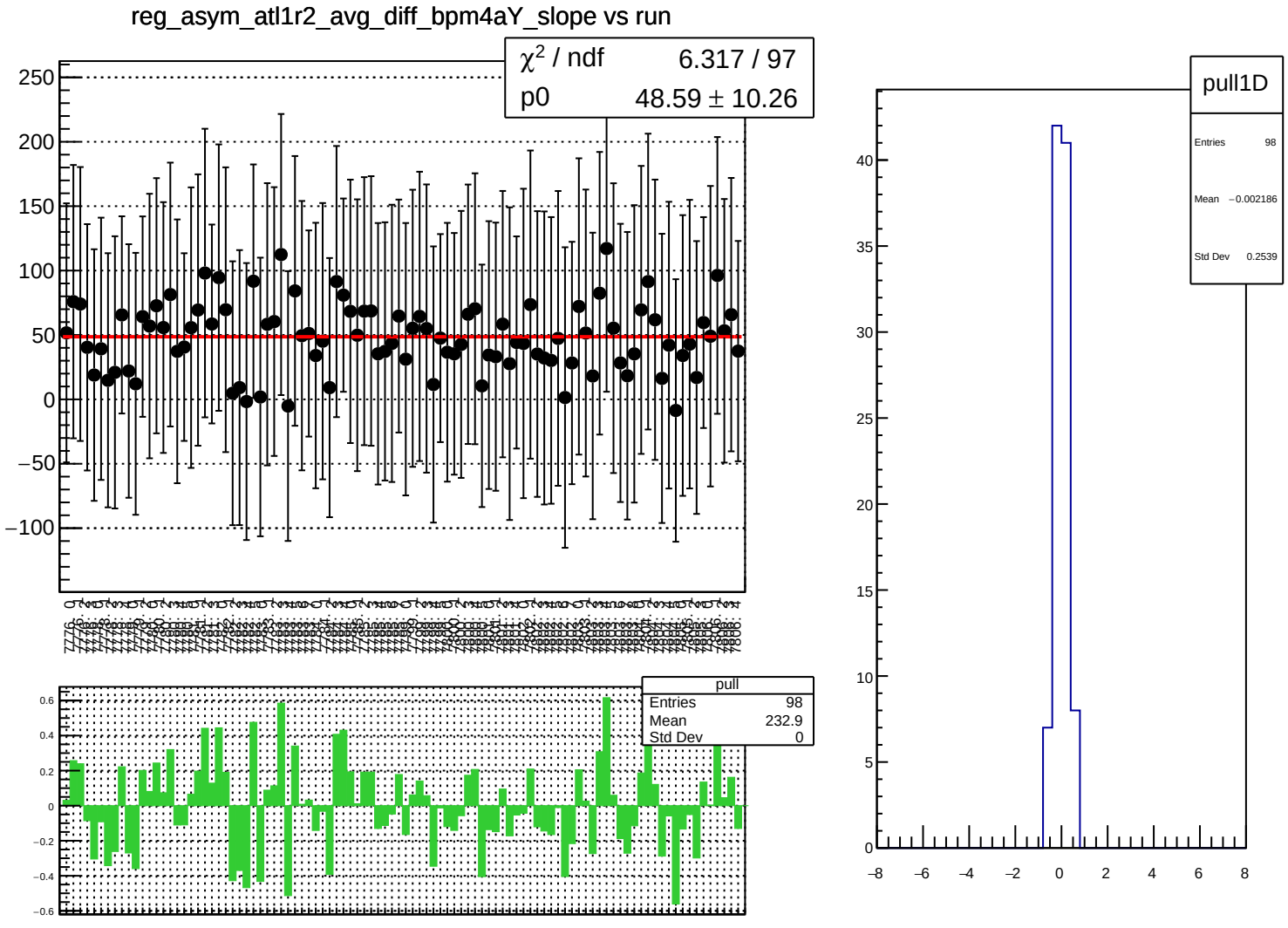

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.45 / 97
p0 −10.41 ± 5.375
100
50
0
−50
−100
−150
pull
Entries 98
Mean 423.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

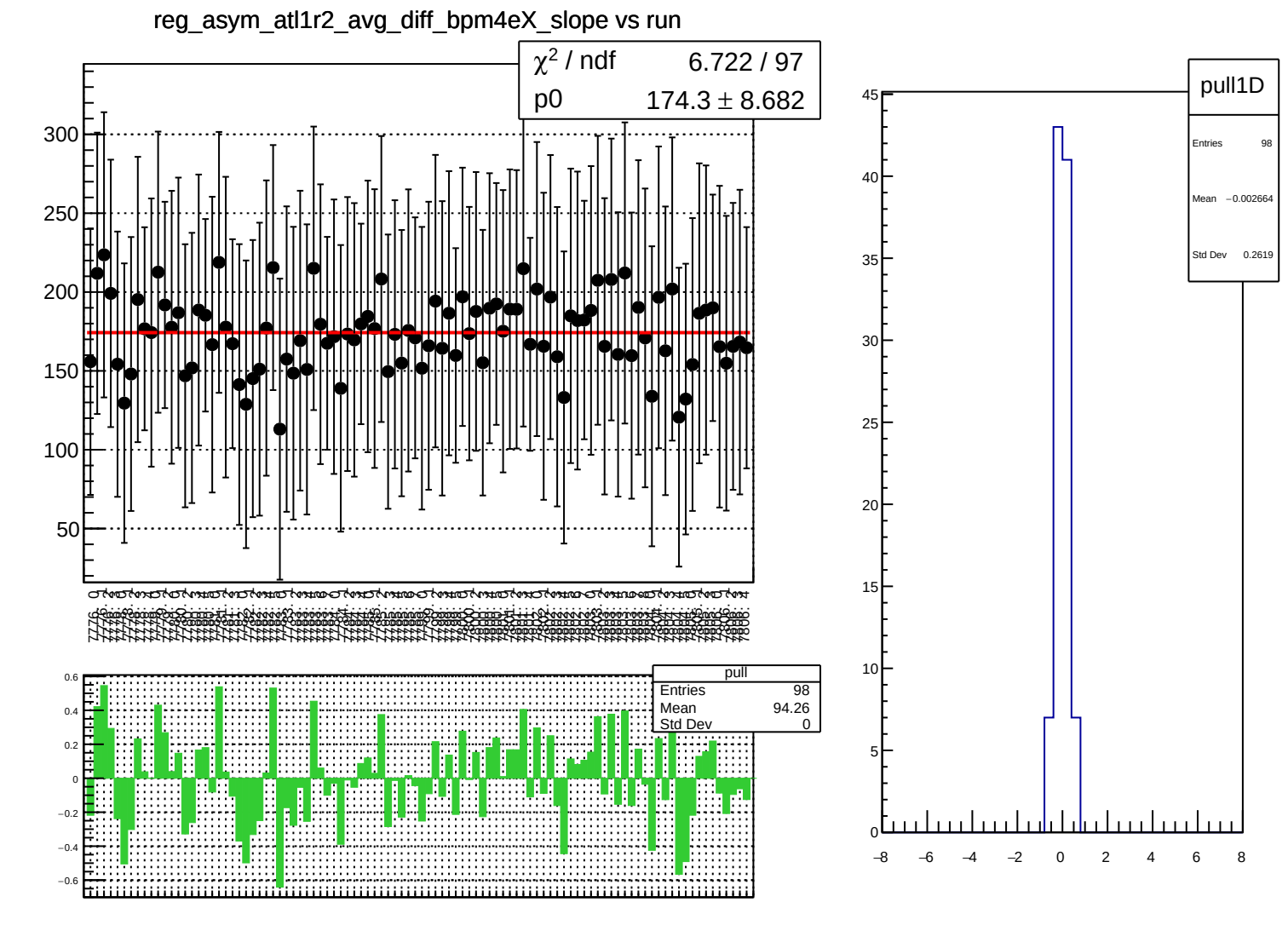

pull1D
Entries 98
Mean 0.003661
Std Dev 0.5195
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

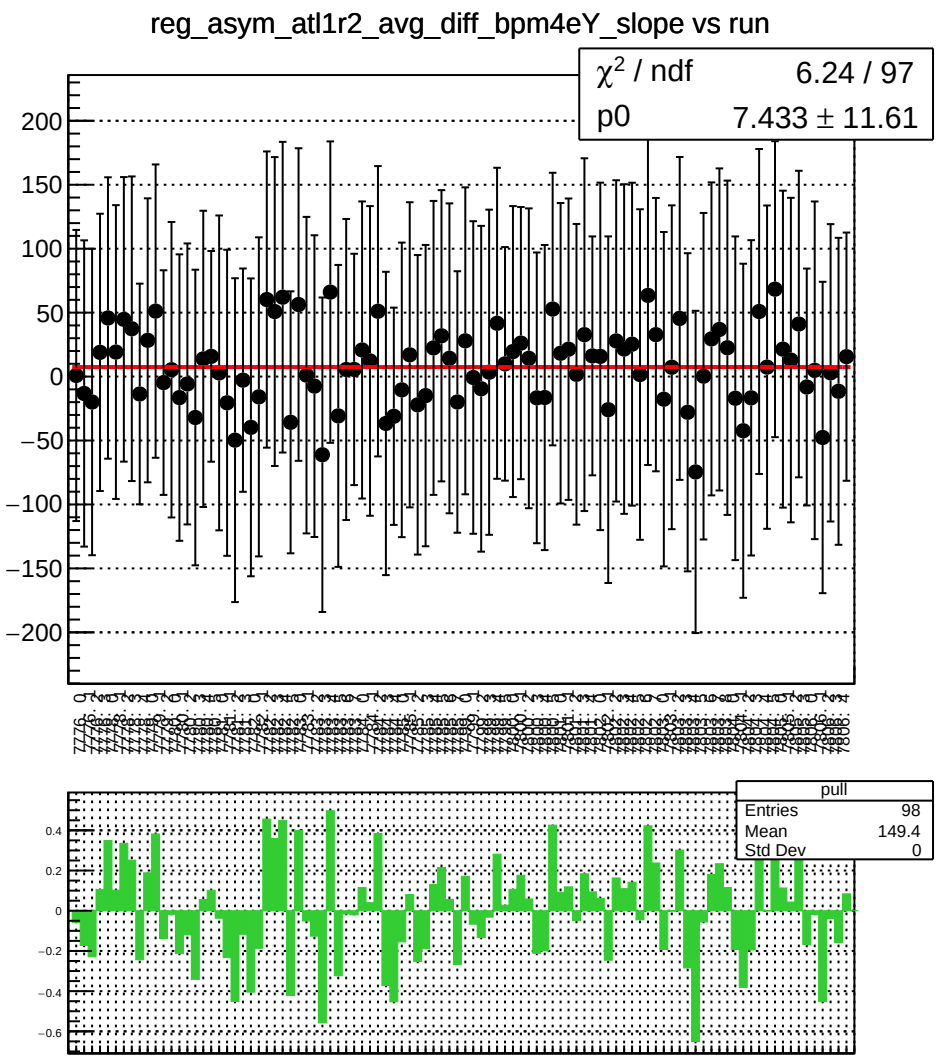

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 28.78 / 97
p0 −21.48 ± 0.1701
−18
−20
−22
−24
−26
pull
Entries 98
Mean 1881
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean 0.002137
Std Dev 0.5419
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

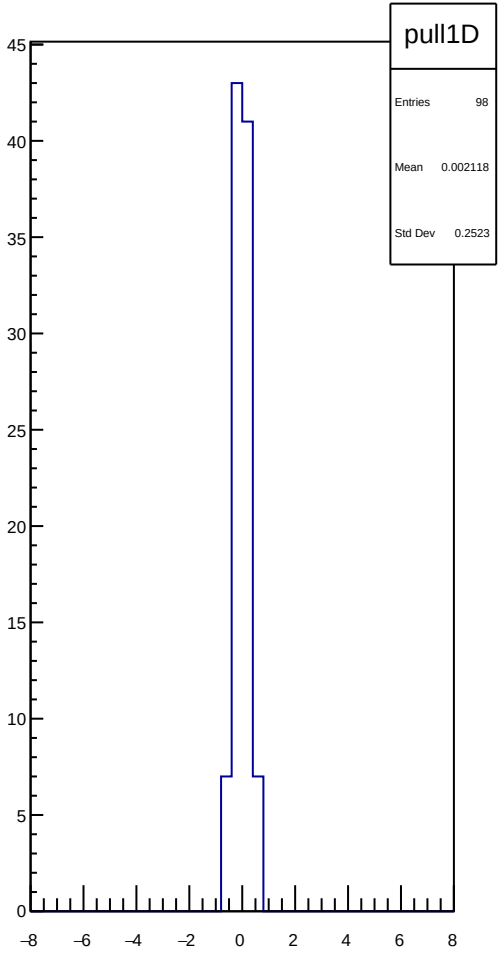

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.733 / 97
p0 −111.1± 9.985
pull
Entries 98
Mean 114.6
Std Dev 0

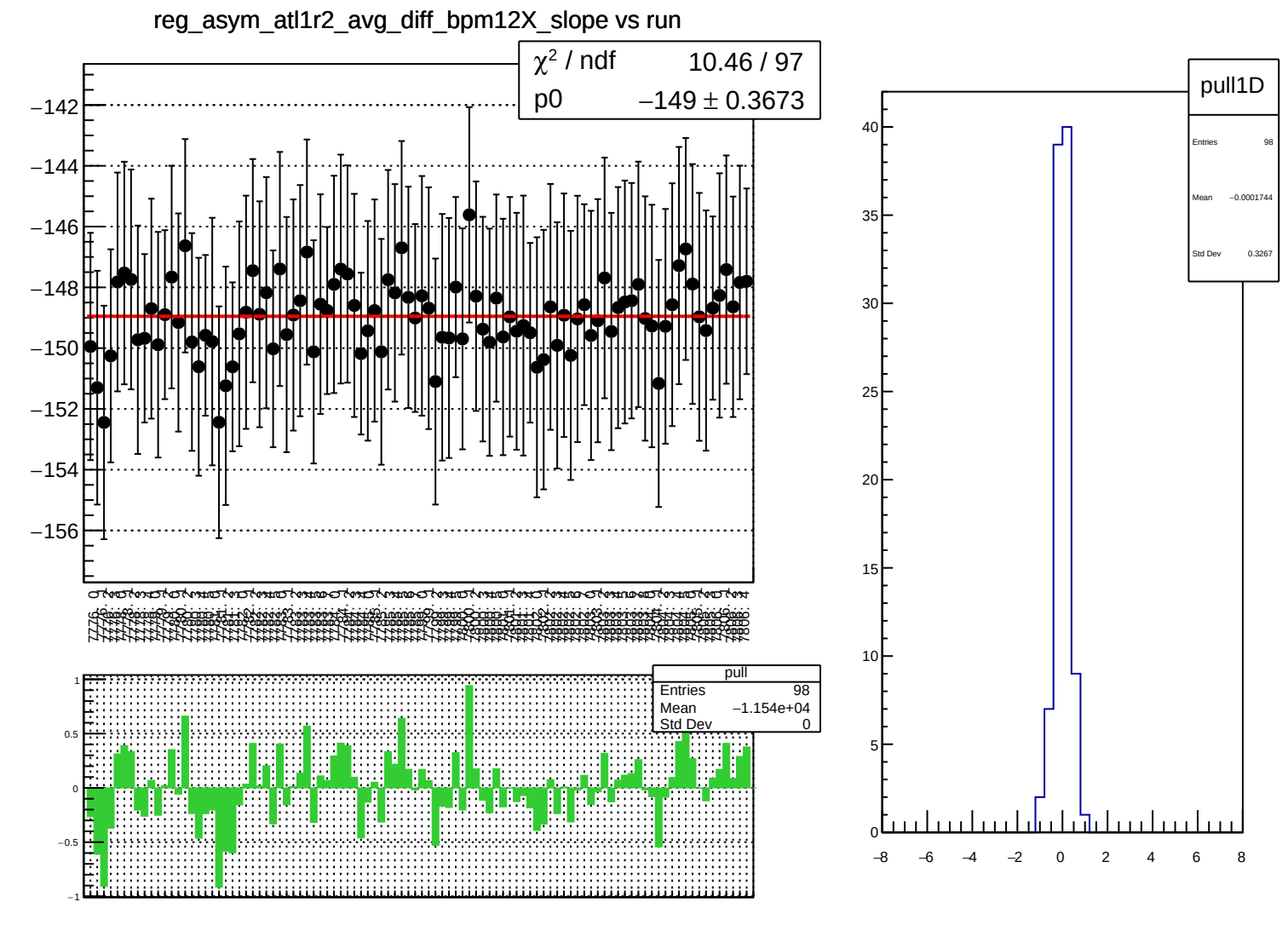

pull1D
Entries 98
Mean 0.002463
Std Dev 0.2621

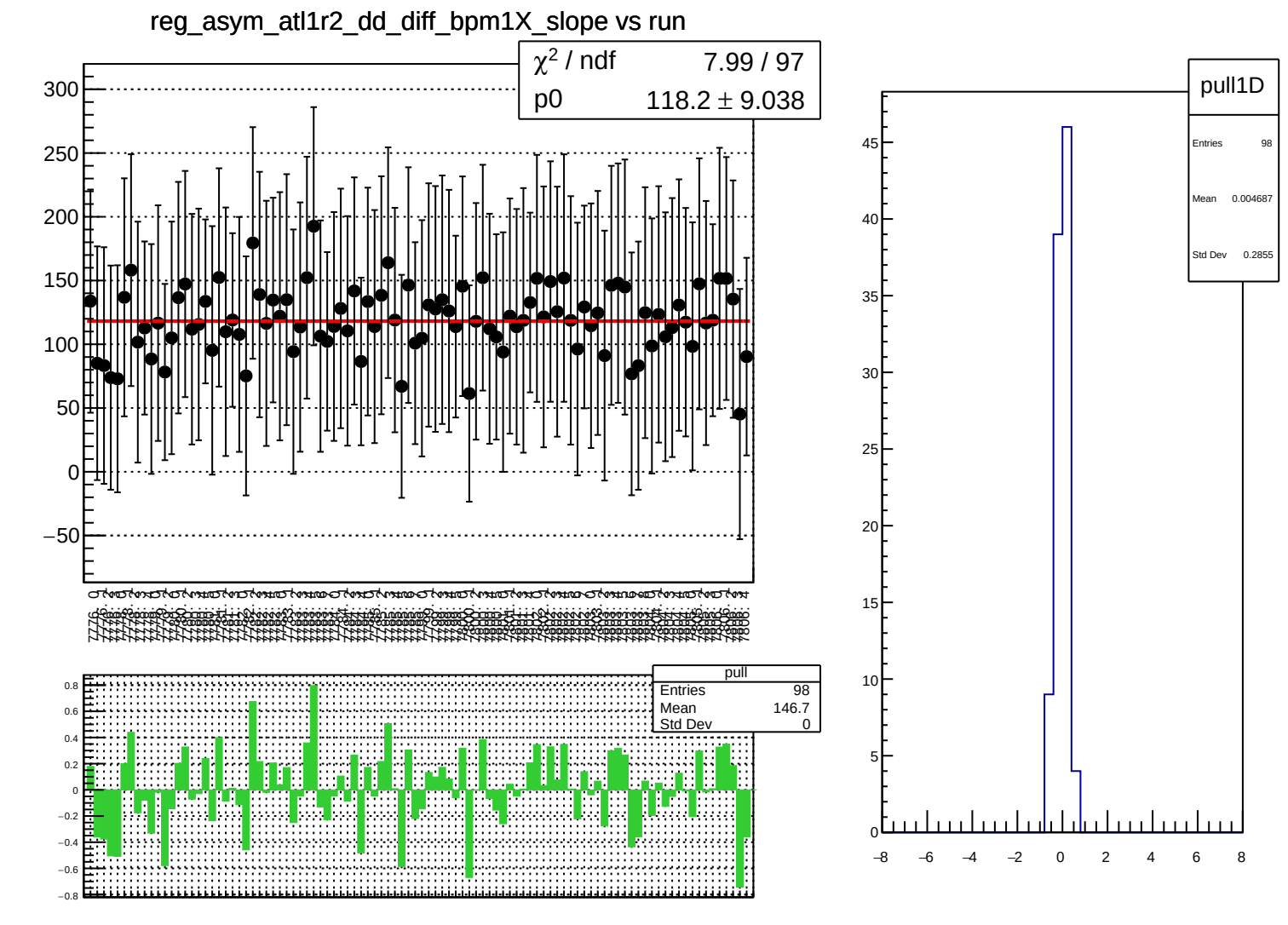

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.317 / 97
p0 48.59 ± 10.26
pull
Entries 98
Mean 232.9
Std Dev 0
pull1D
Entries 98
Mean −0.002186
Std Dev 0.2539

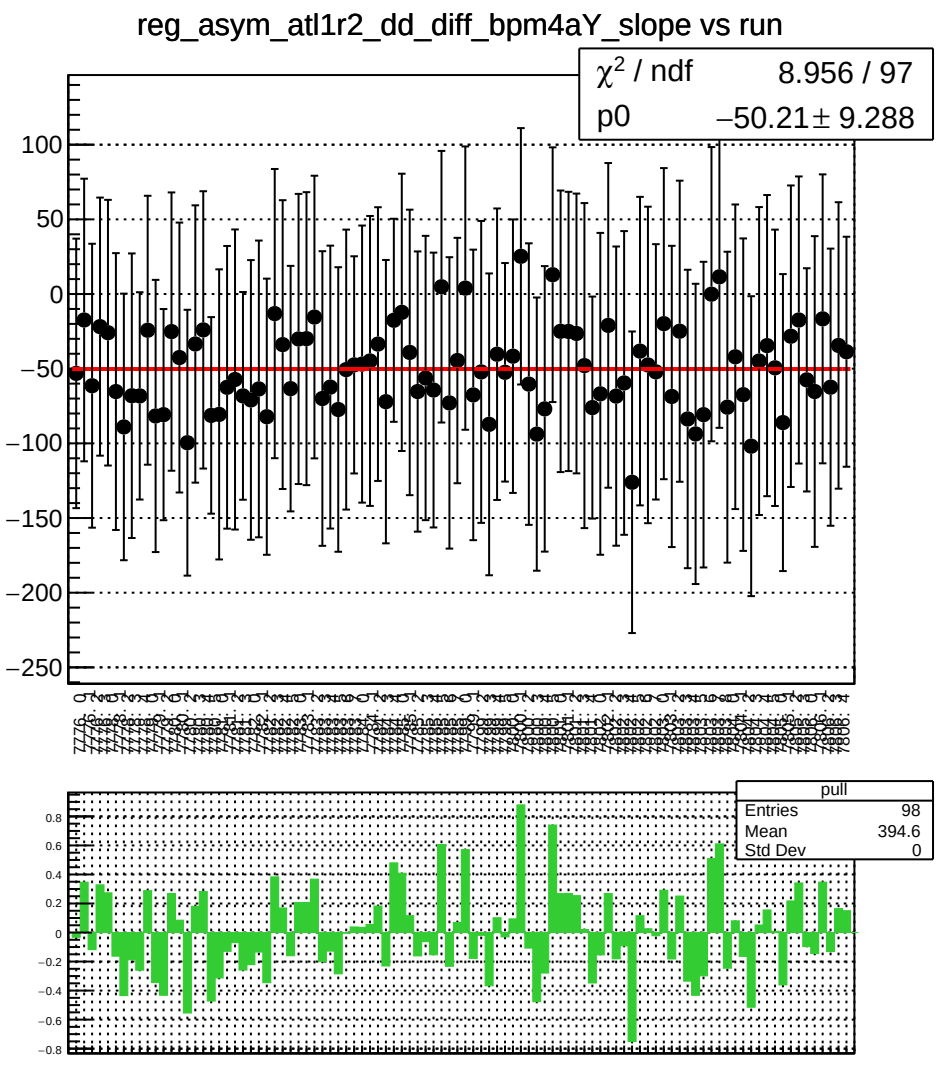

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.722 / 97
p0 174.3 ± 8.682
300
250
200
150
100
50
pull
Entries 98
Mean 94.26
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean −0.002664
Std Dev 0.2619
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

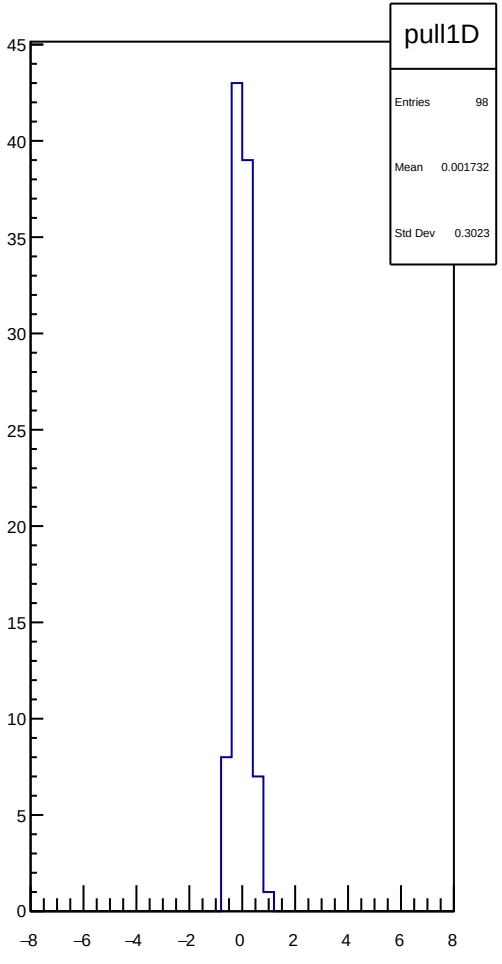

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.24 / 97
p0 7.433 ± 11.61
pull
Entries 98
Mean 149.4
Std Dev 0

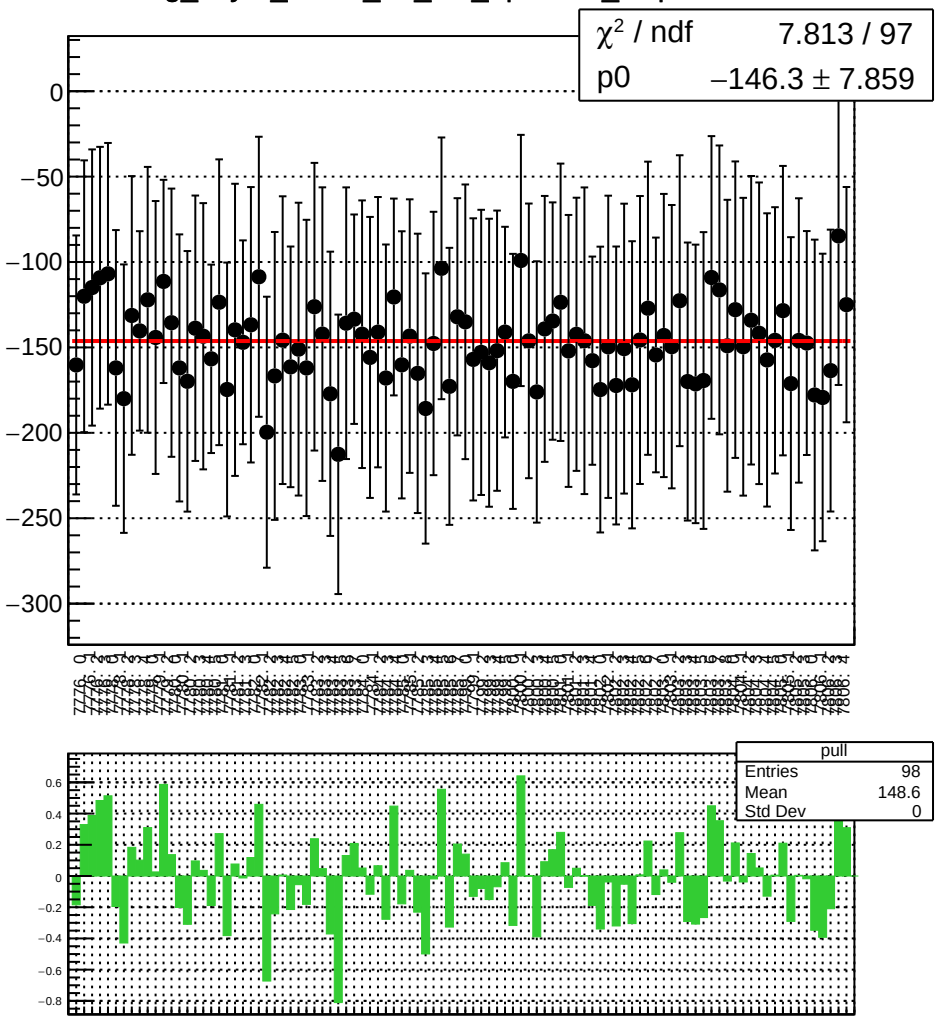

pull1D
Entries 98
Mean 0.002118
Std Dev 0.2523

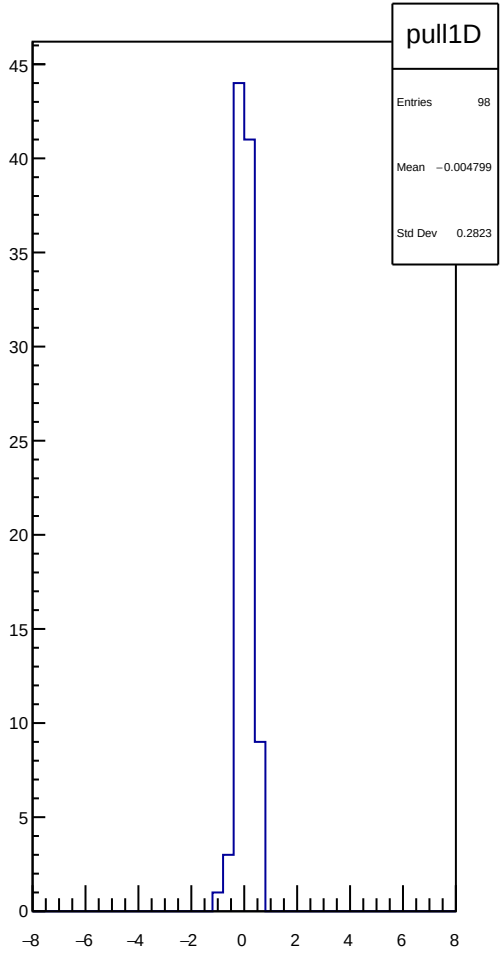

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 10.46 / 97
p0 −149 ± 0.3673
−142
−144
−146
−148
−150
−152
−154
−156
pull
Entries 98
Mean −1.154e+04
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean −0.0001744
Std Dev 0.3267
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

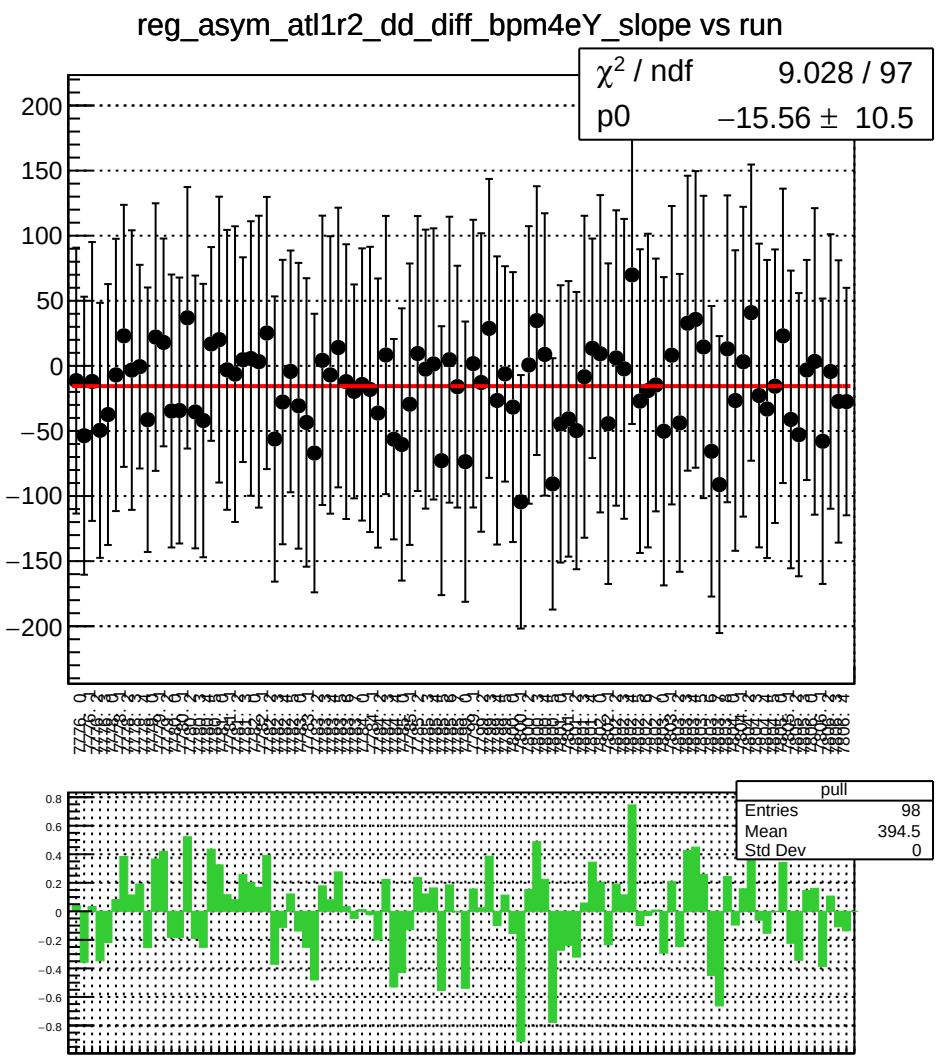

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 7.99 / 97
p0 118.2 ± 9.038
pull
Entries 98
Mean 146.7
Std Dev 0
pull1D
Entries 98
Mean 0.004687
Std Dev 0.2855

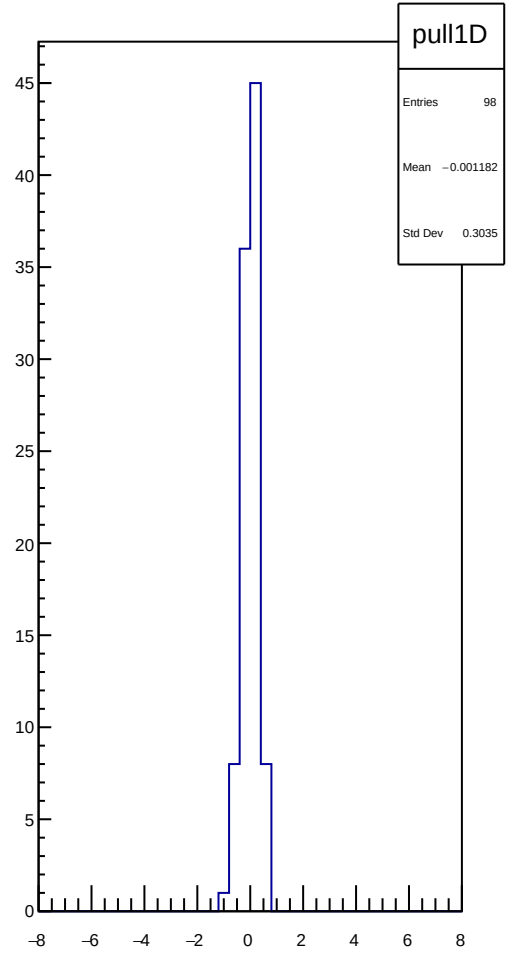

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.956 / 97
p0 −50.21 ± 9.288
pull
Entries 98
Mean 394.6
Std Dev 0

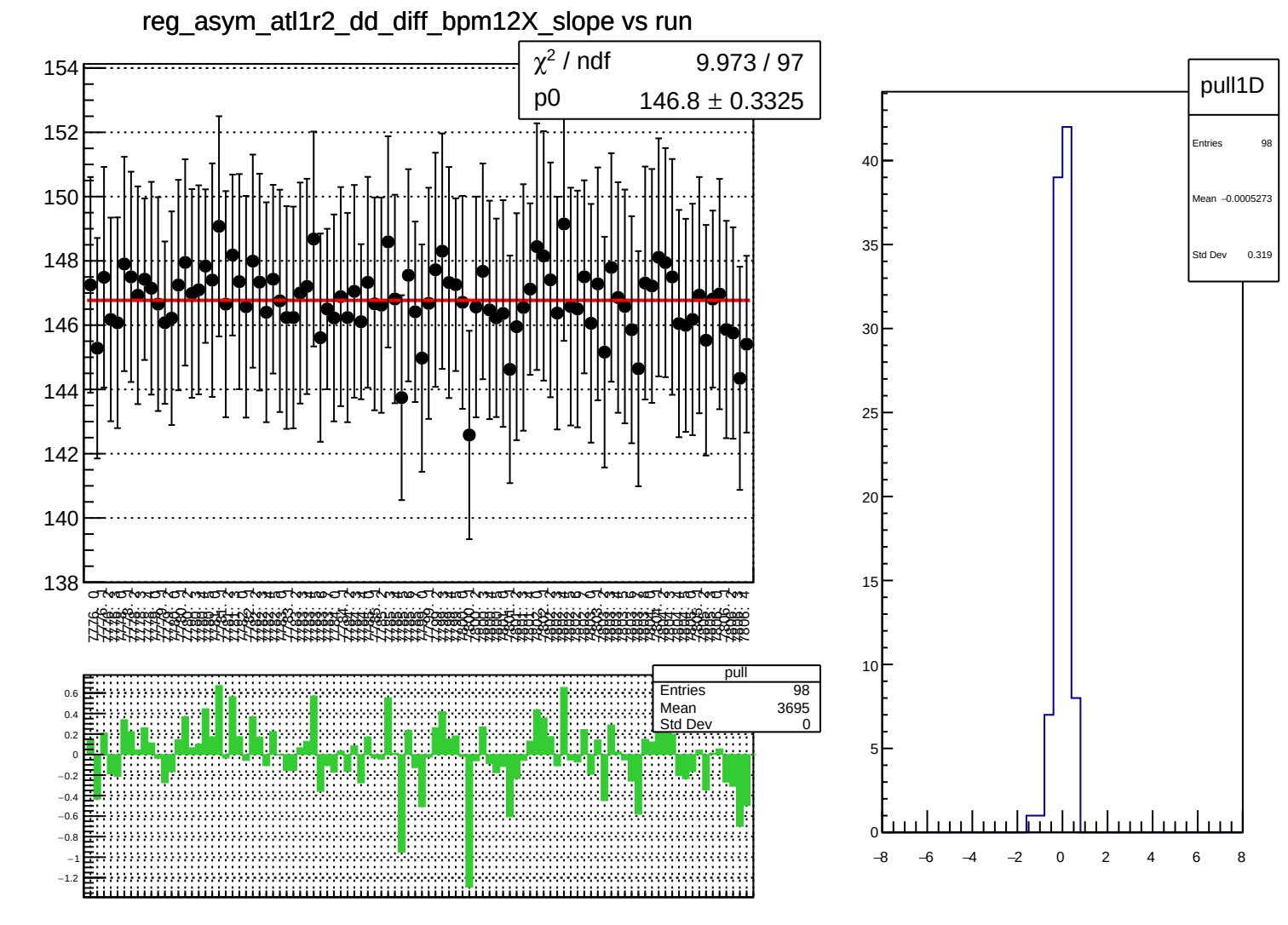

pull1D
Entries 98
Mean 0.001732
Std Dev 0.3023

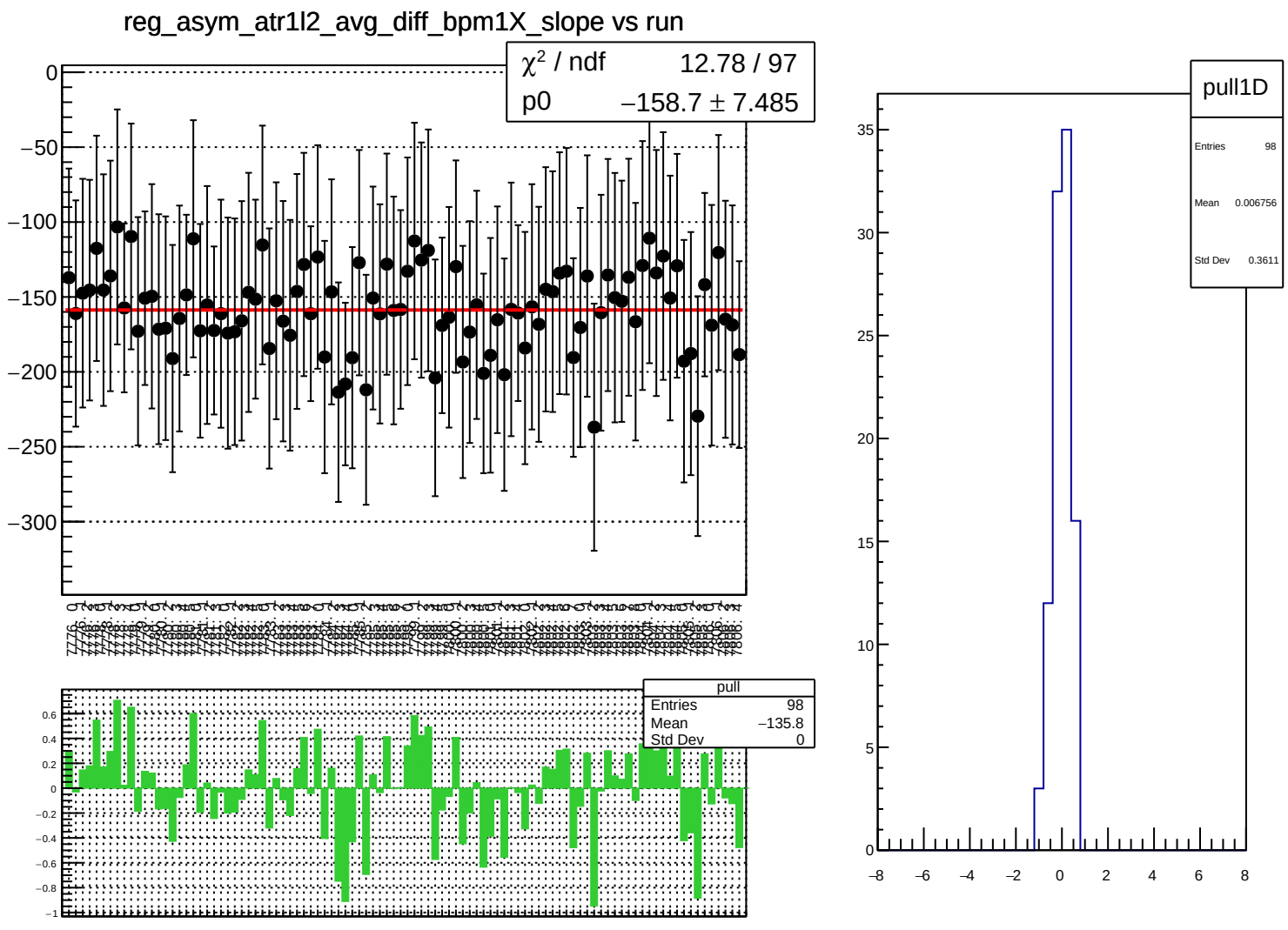

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.813 / 97
p0 −146.3 ± 7.859
0
−50
−100
−150
−200
−250
−300
pull
Entries 98
Mean 148.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

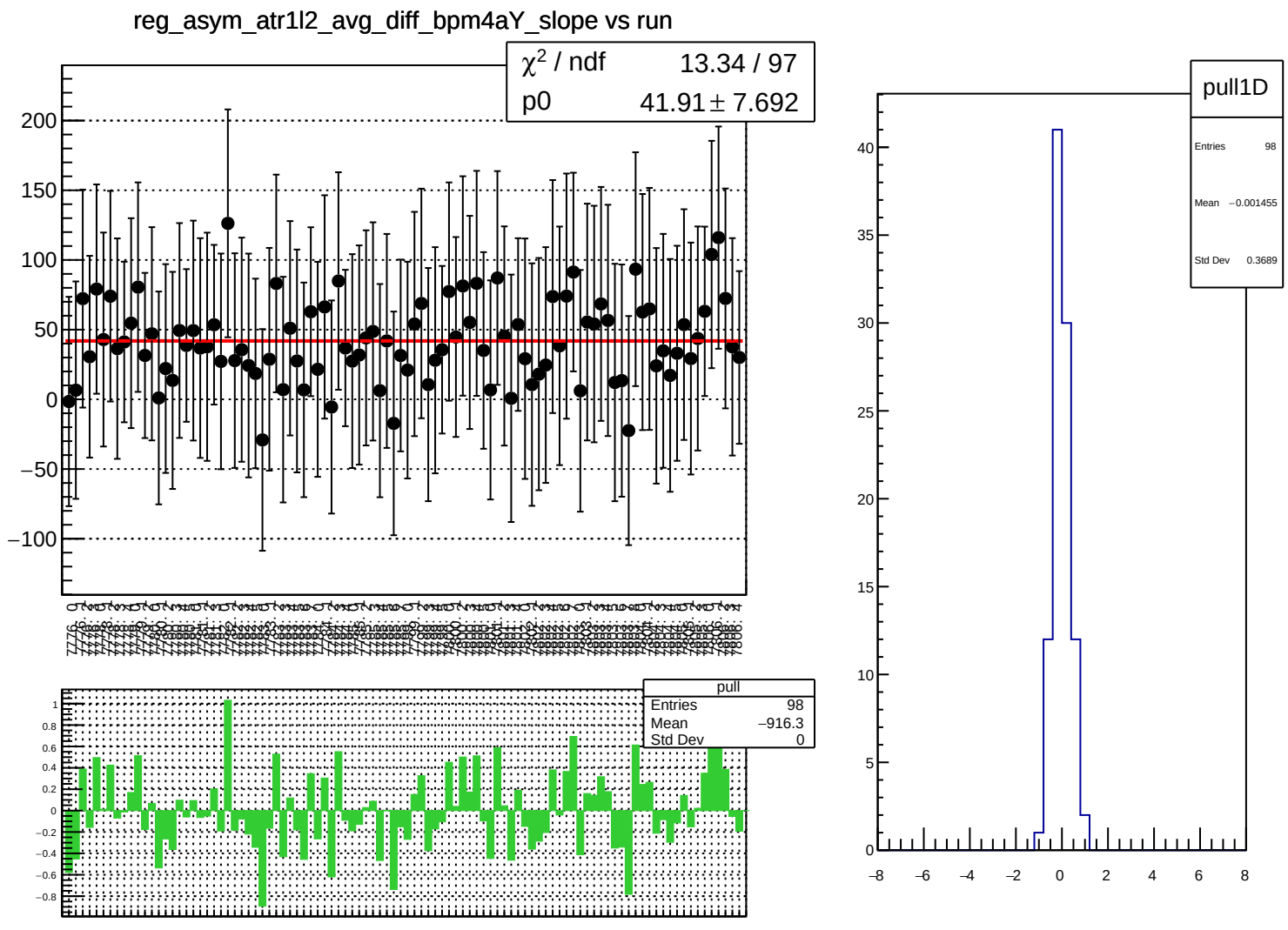

pull1D
Entries 98
Mean −0.004799
Std Dev 0.2823
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

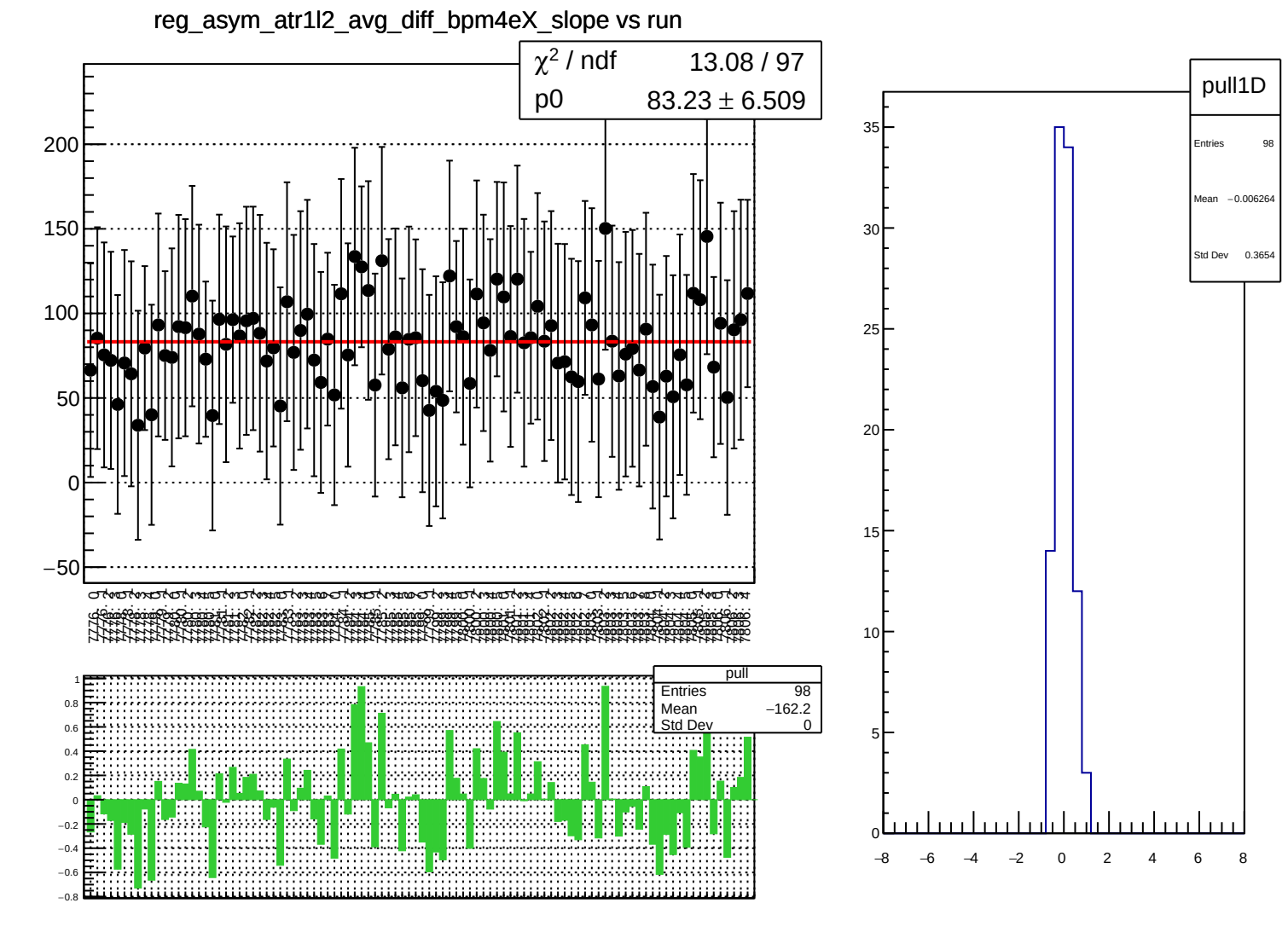

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.028 / 97
p0 −15.56 ± 10.5
pull
Entries 98
Mean 394.5
Std Dev 0

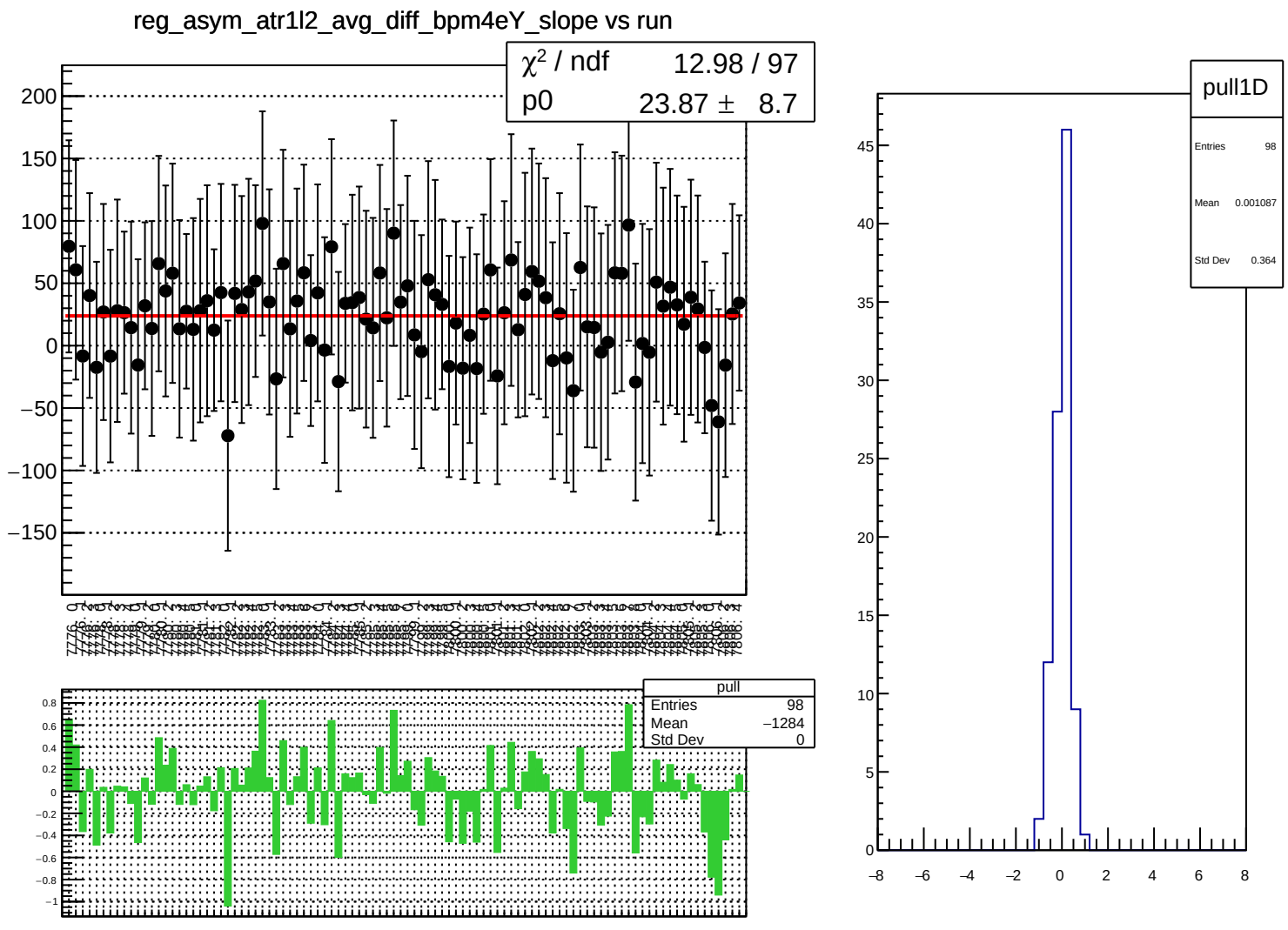

pull1D
Entries 98
Mean −0.001182
Std Dev 0.3035

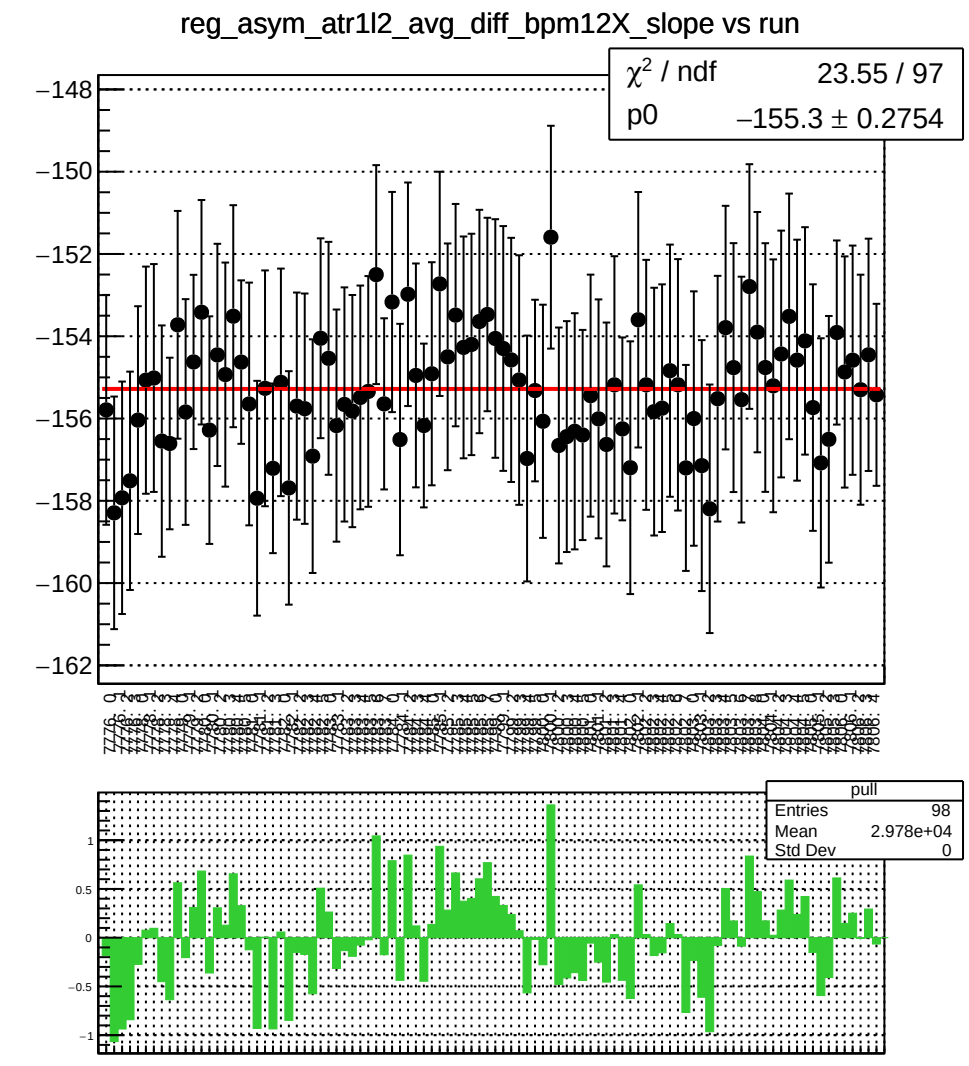

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 9.973 / 97
p0 146.8 ± 0.3325
pull
Entries 98
Mean 3695
Std Dev 0
pull1D
Entries 98
Mean −0.0005273
Std Dev 0.319

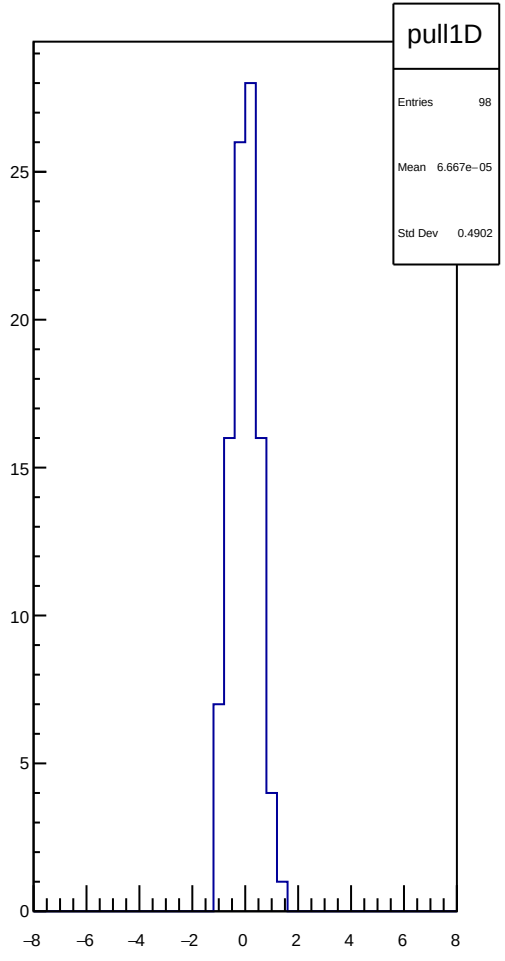

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 12.78 / 97
p0 −158.7 ± 7.485
pull
Entries 98
Mean −135.8
Std Dev 0
pull1D
Entries 98
Mean 0.006756
Std Dev 0.3611

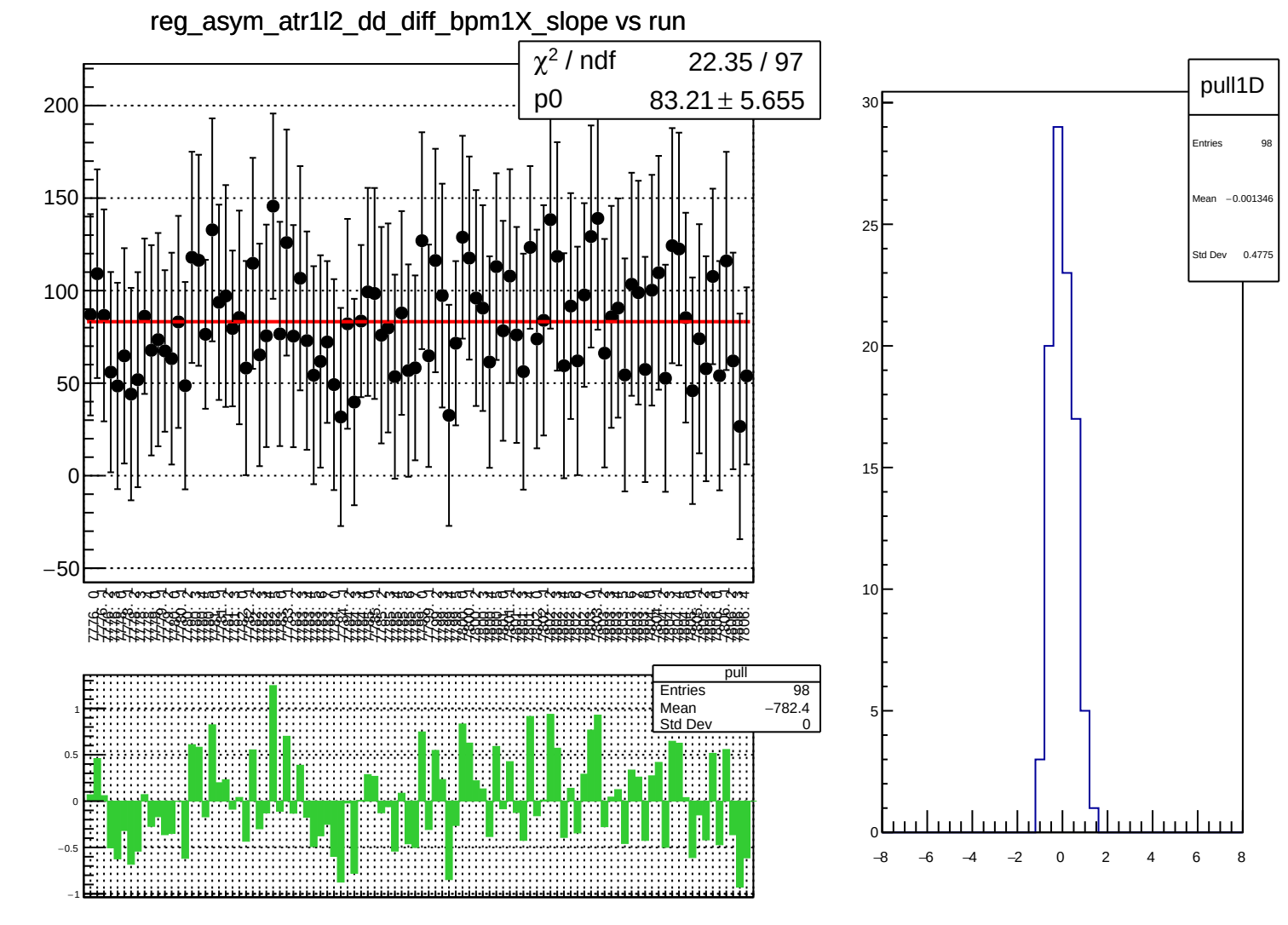

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.34 / 97
p0 41.91 ± 7.692
200
150
100
50
0
−50
−100
pull
Entries 98
Mean −916.3
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean −0.001455
Std Dev 0.3689
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

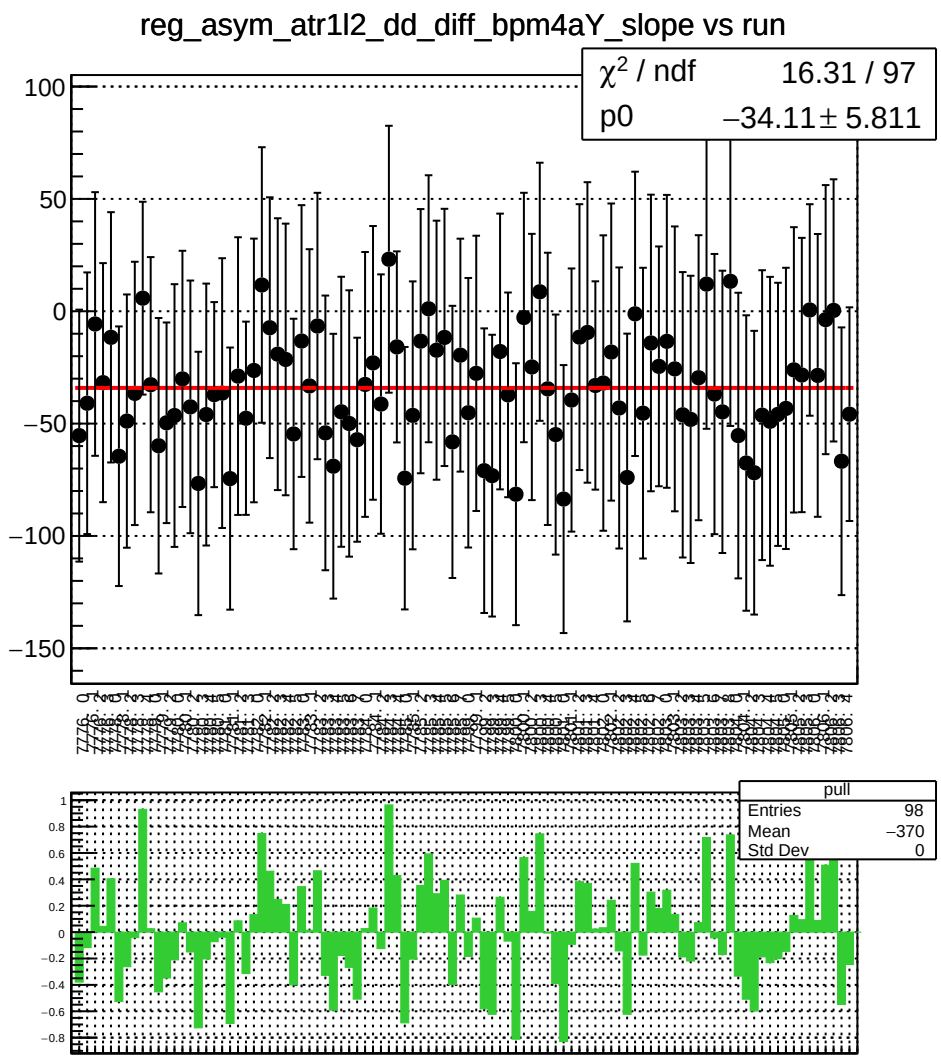

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.08 / 97
p0 83.23 ± 6.509
200
150
100
50
0
−50
pull
Entries 98
Mean −162.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean −0.006264
Std Dev 0.3654
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

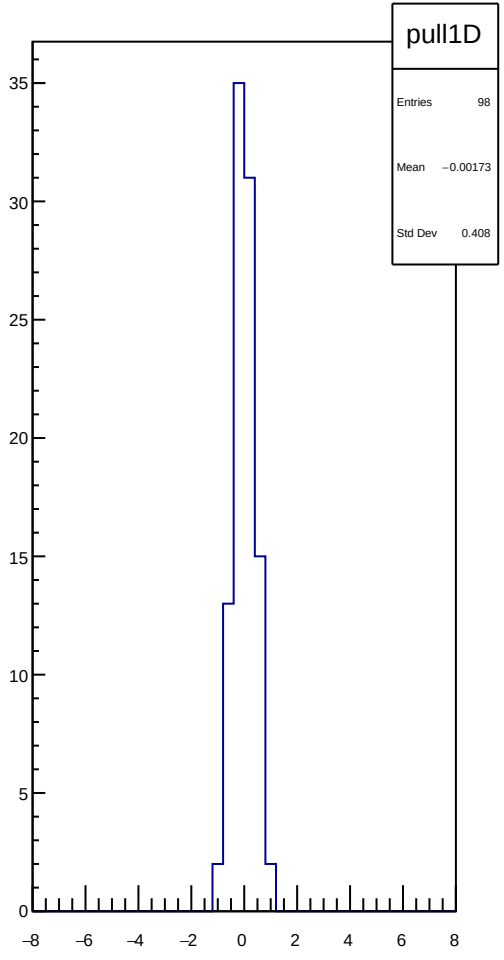

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.98 / 97
p0 23.87 ± 8.7
pull
Entries 98
Mean −1284
Std Dev 0
pull1D
Entries 98
Mean 0.001087
Std Dev 0.364

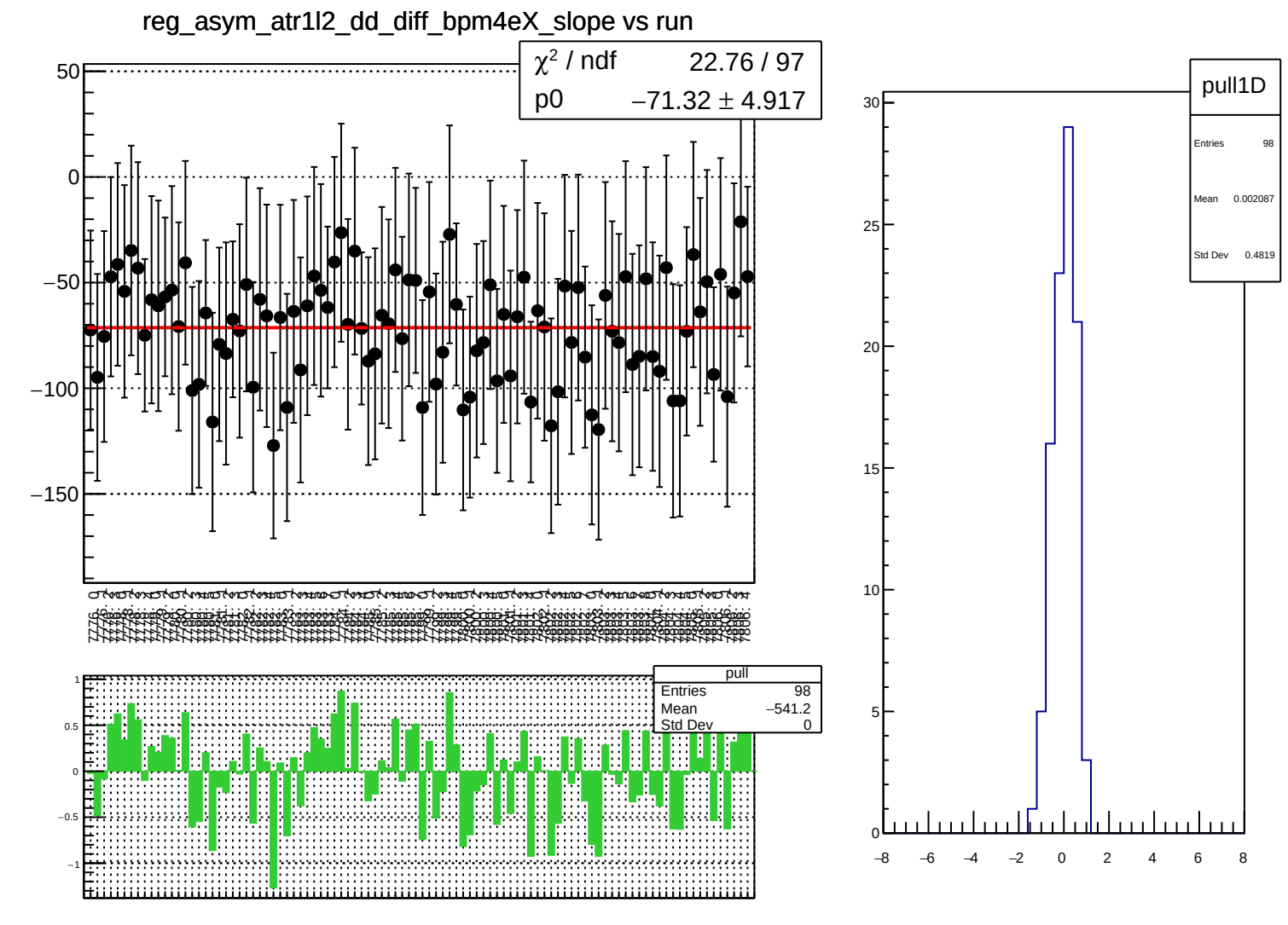

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 23.55 / 97
p0 −155.3 ± 0.2754
−148
−150
−152
−154
−156
−158
−160
−162
pull
Entries 98
Mean 2.978e+04
Std Dev 0
1
0.5
0
−0.5
−1

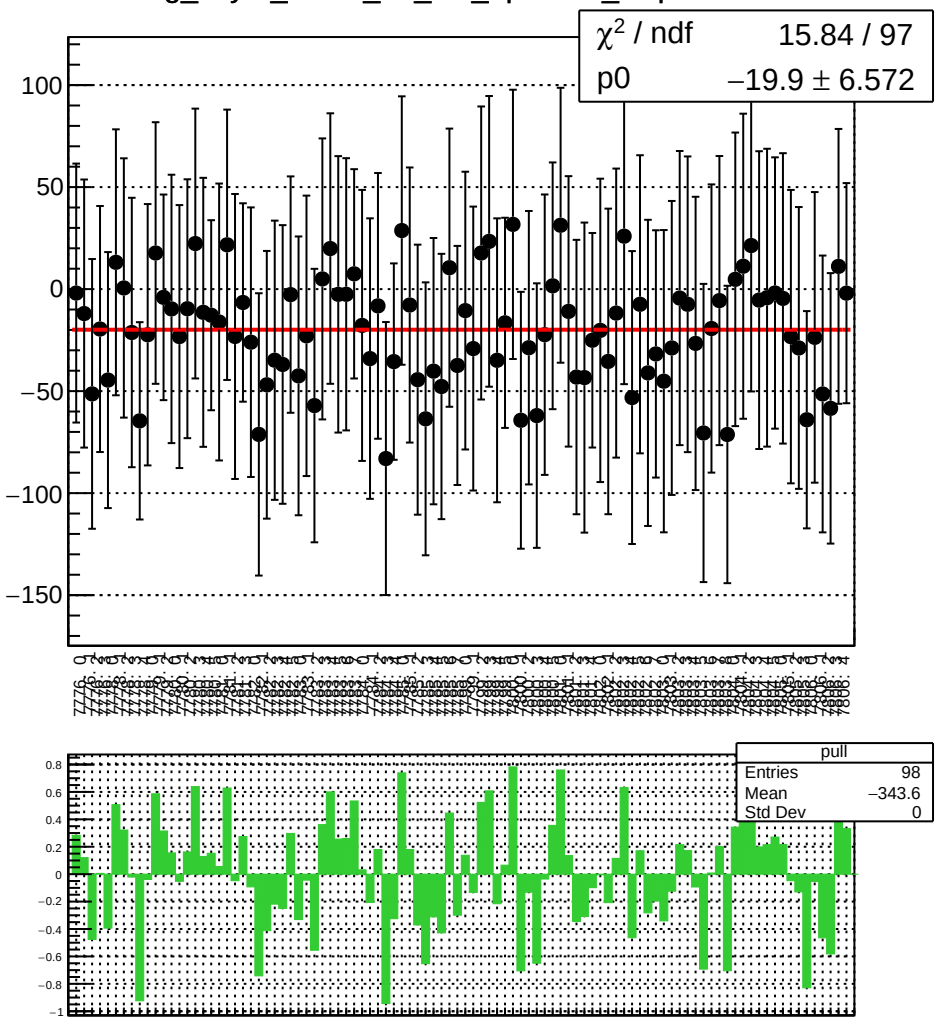

pull1D
Entries 98
Mean 6.667e−05
Std Dev 0.4902
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

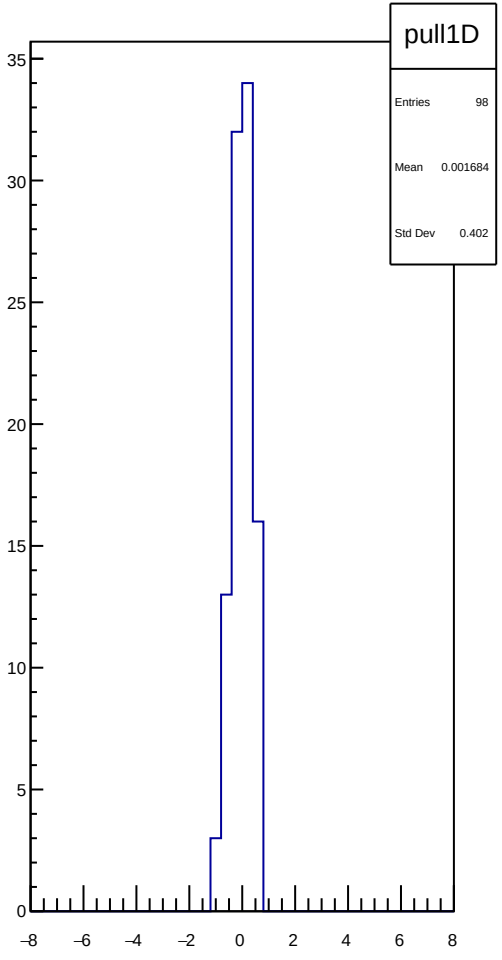

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 22.35 / 97
p0 83.21 ± 5.655
200
150
100
50
0
−50
pull
Entries 98
Mean −782.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean −0.001346
Std Dev 0.4775
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

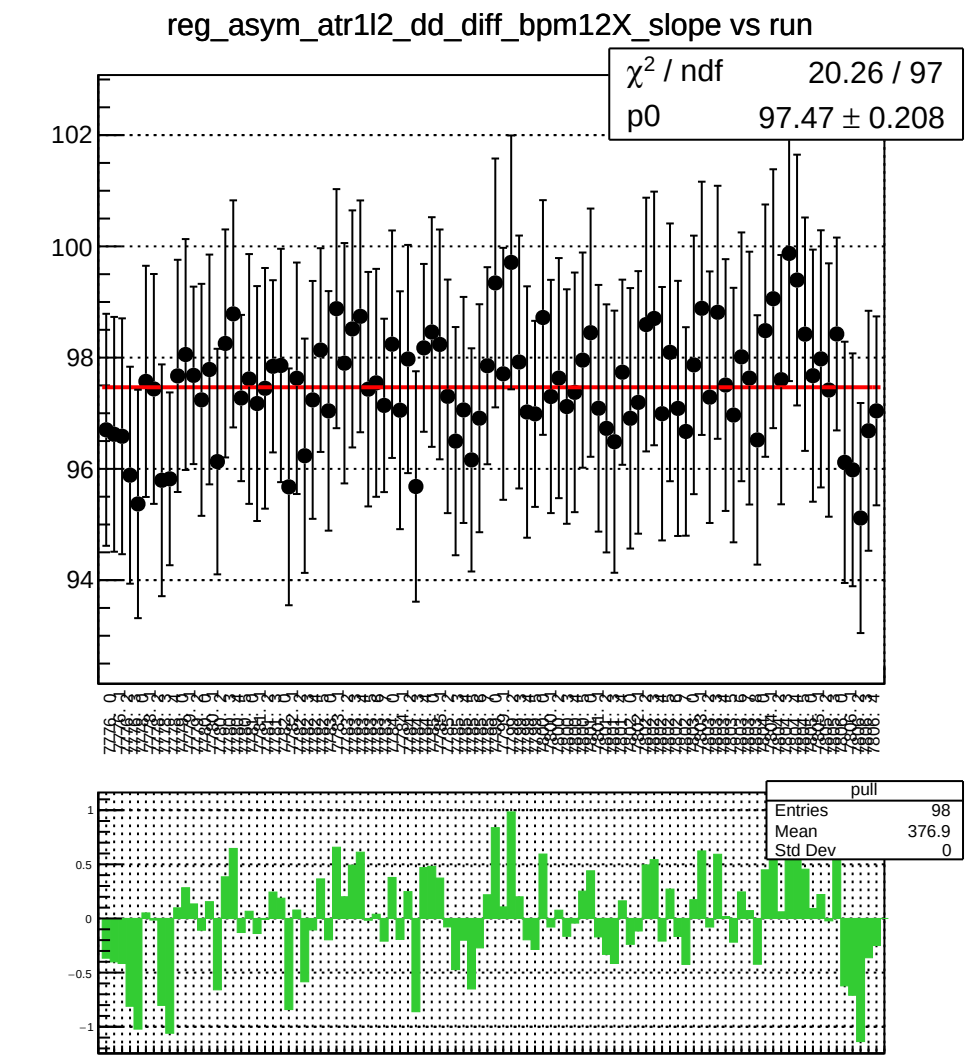

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.31 / 97
p0 −34.11 ± 5.811
pull
Entries 98
Mean −370
Std Dev 0

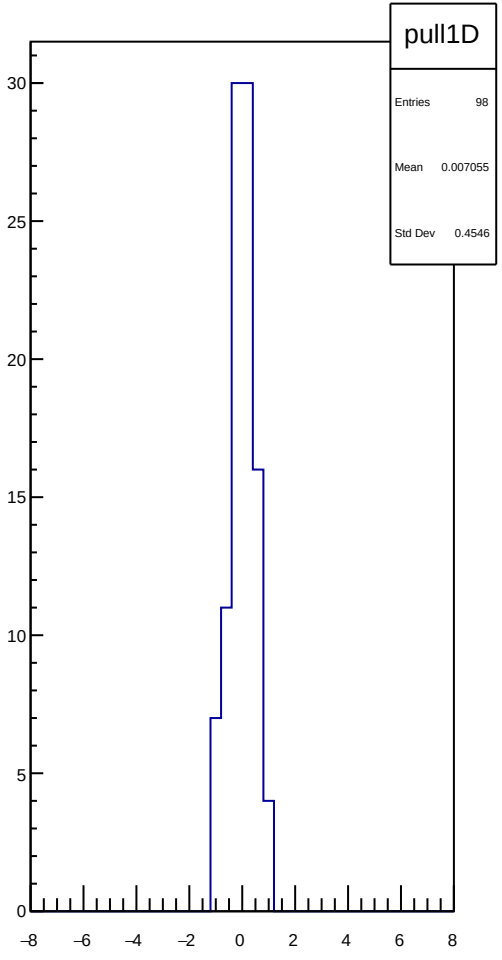

pull1D
Entries 98
Mean −0.00173
Std Dev 0.408

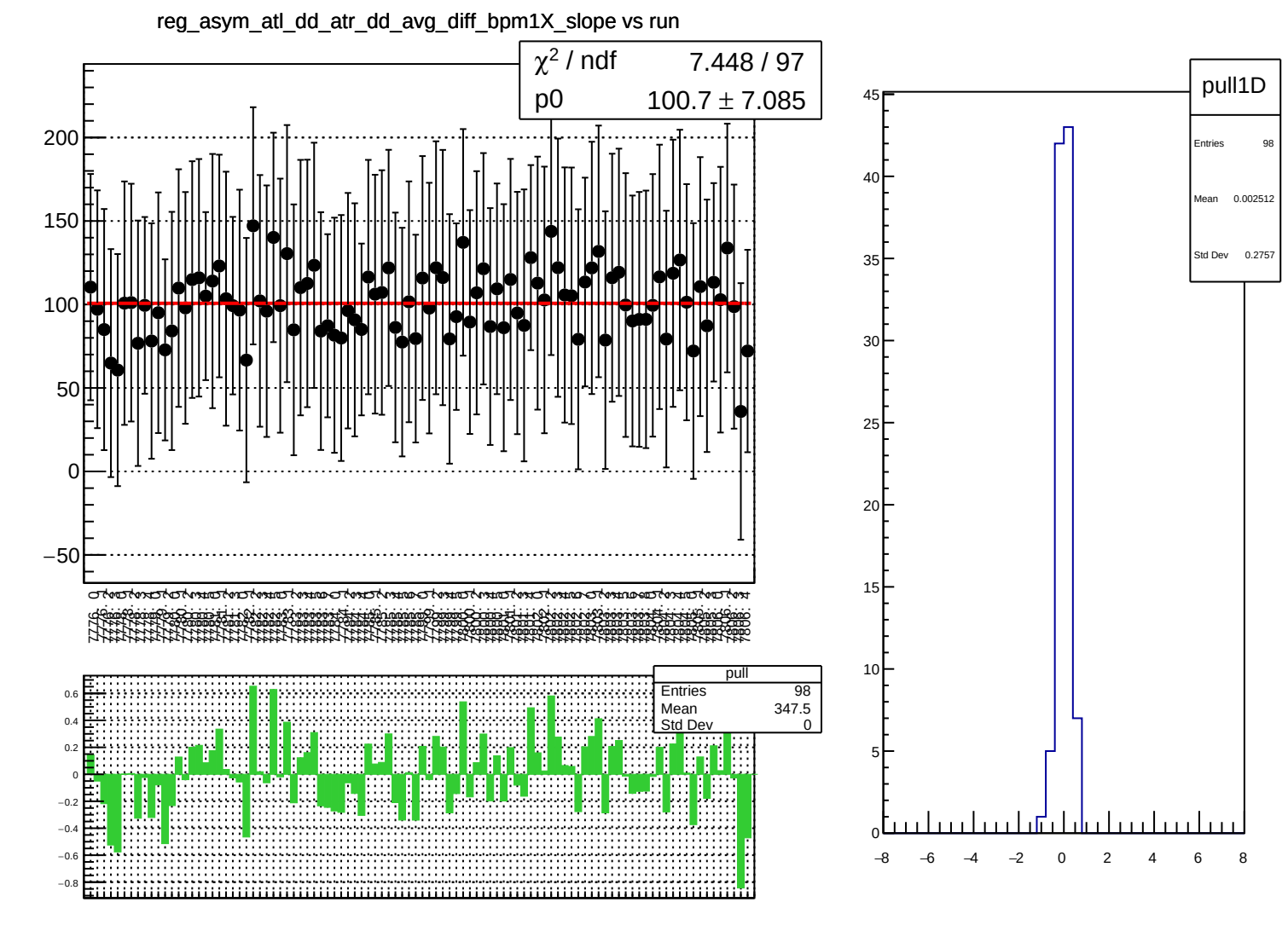

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.76 / 97
p0 −71.32 ± 4.917
50
0
−50
−100
−150
pull
Entries 98
Mean −541.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean 0.002087
Std Dev 0.4819
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

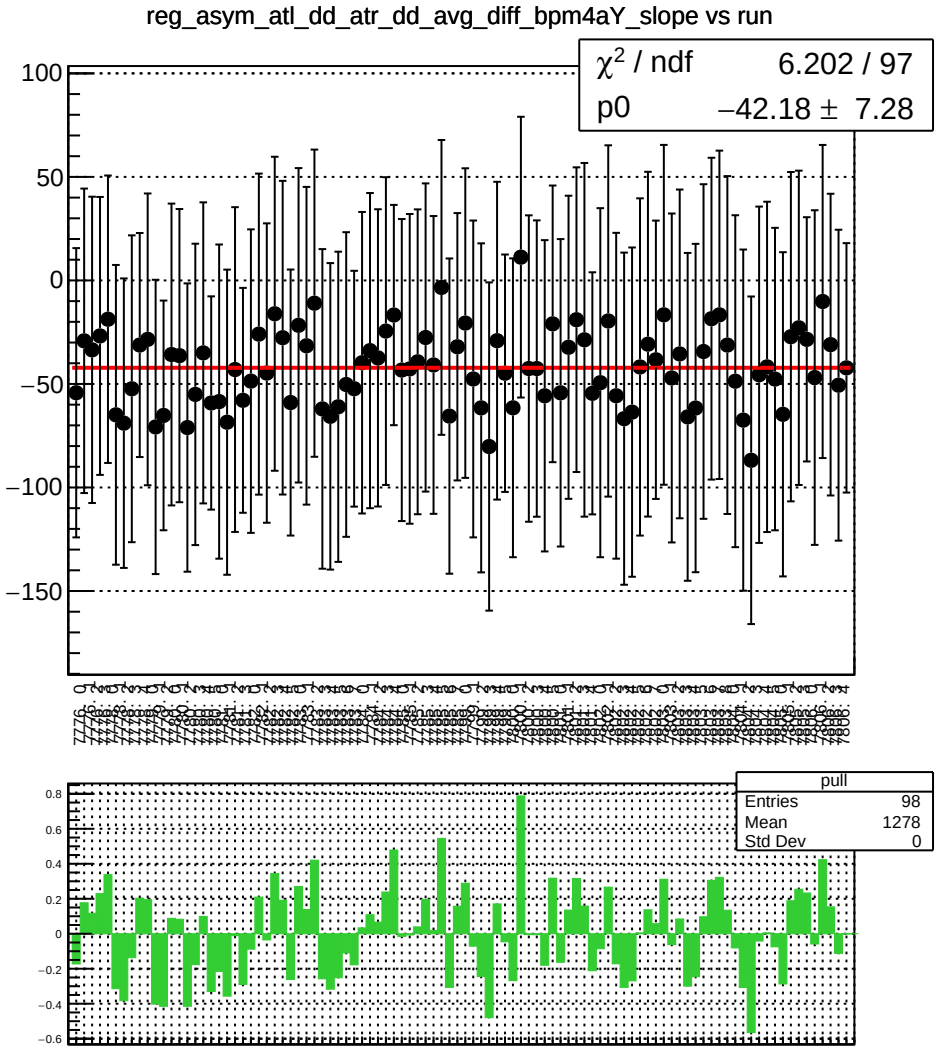

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.84 / 97
p0 −19.9 ± 6.572
pull
Entries 98
Mean −343.6
Std Dev 0

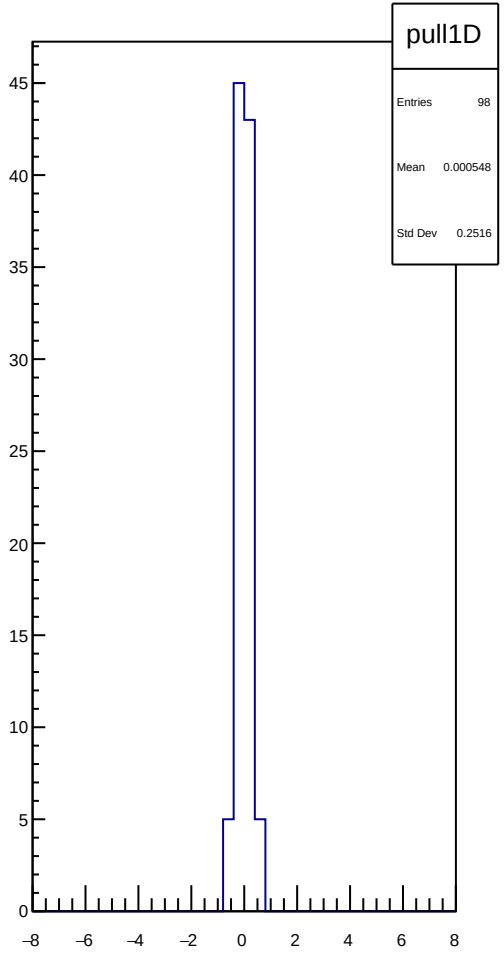

pull1D
Entries 98
Mean 0.001684
Std Dev 0.402

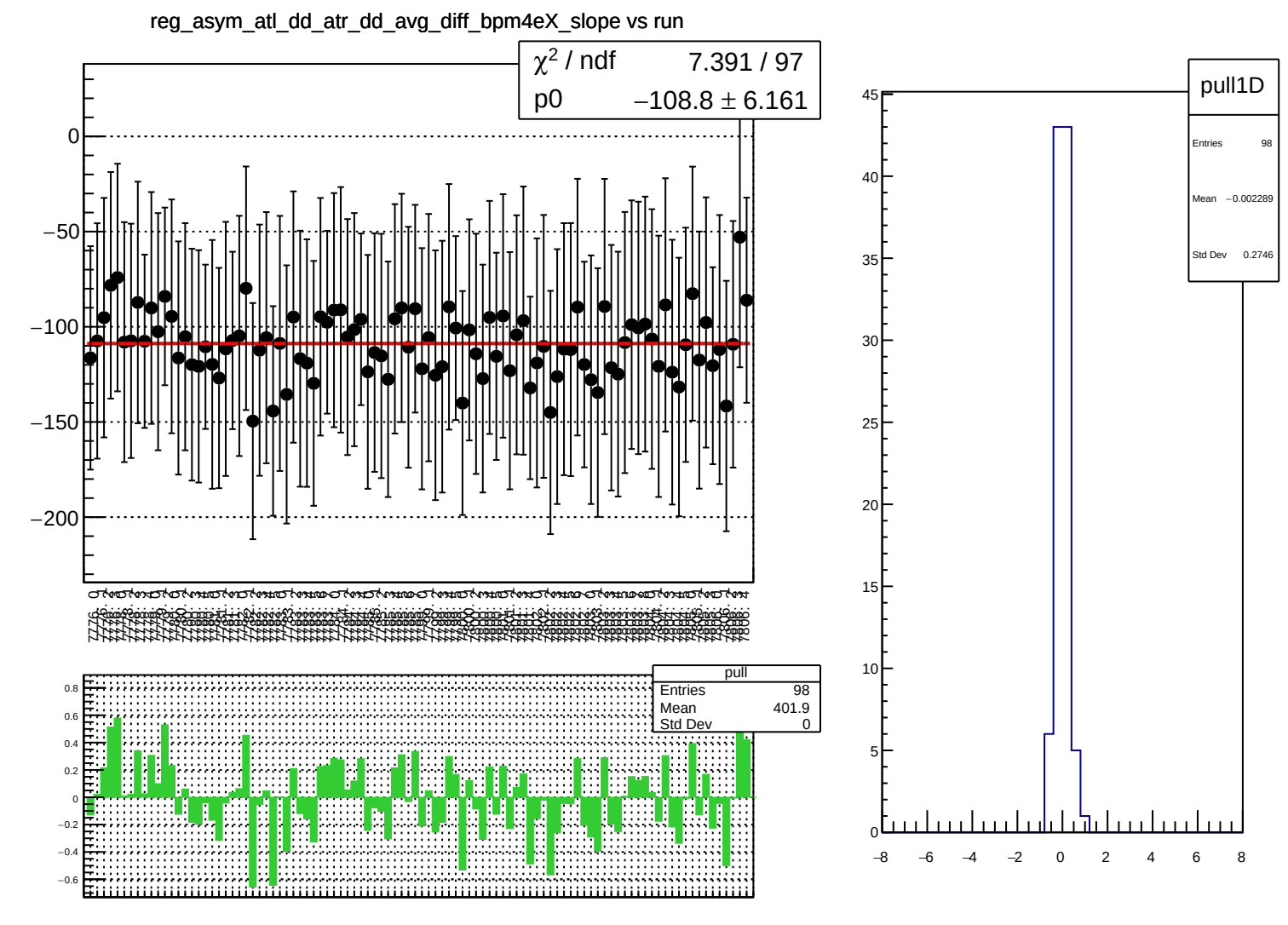

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.26 / 97
p0 97.47 ± 0.208
102
100
98
96
94
pull
Entries 98
Mean 376.9
Std Dev 0
1
0.5
0
−0.5
−1

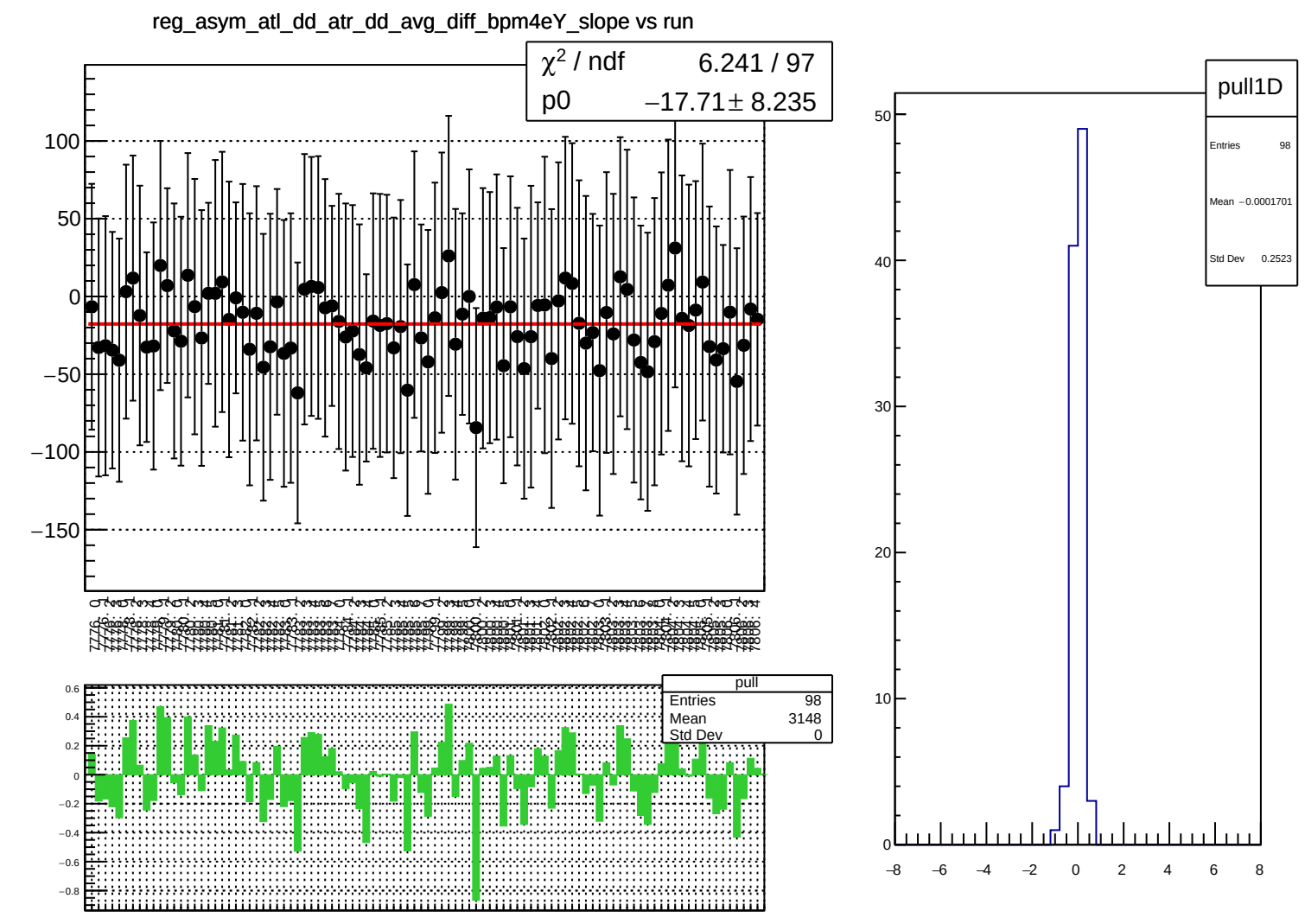

pull1D
Entries 98
Mean 0.007055
Std Dev 0.4546
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

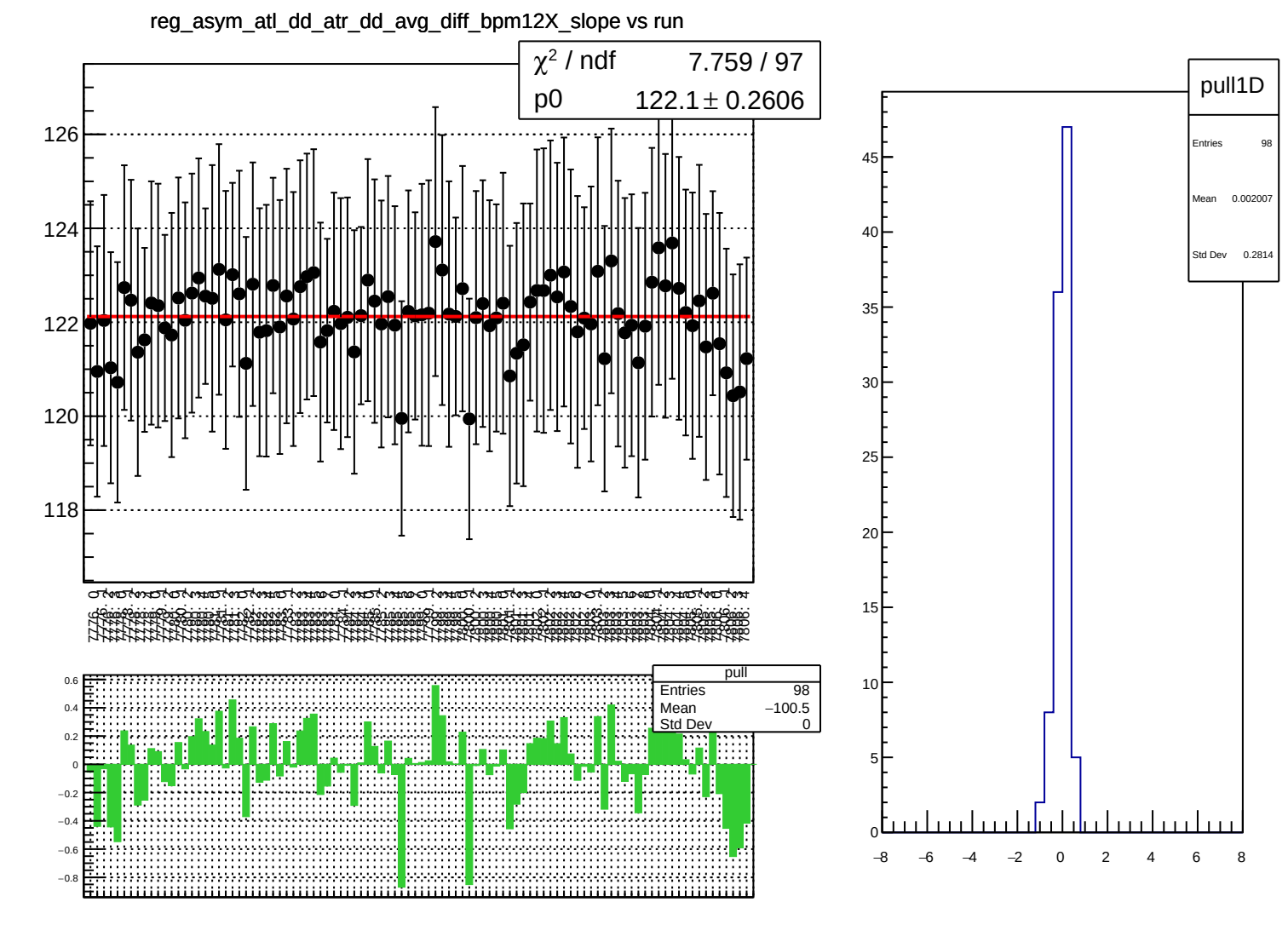

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 7.448 / 97
p0 100.7 ± 7.085
200
150
100
50
0
−50
pull
Entries 98
Mean 347.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean 0.002512
Std Dev 0.2757
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

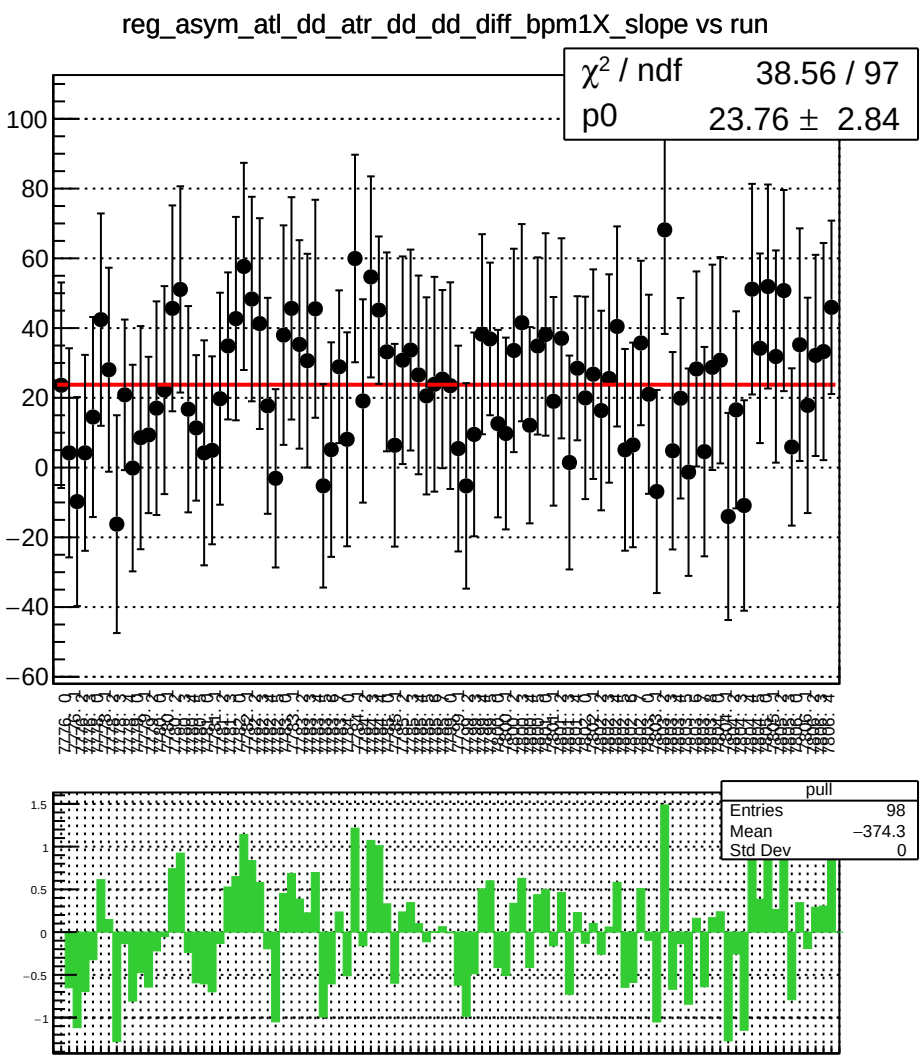

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.202 / 97
p0 −42.18 ± 7.28
100
50
0
−50
−100
−150
pull
Entries 98
Mean 1278
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

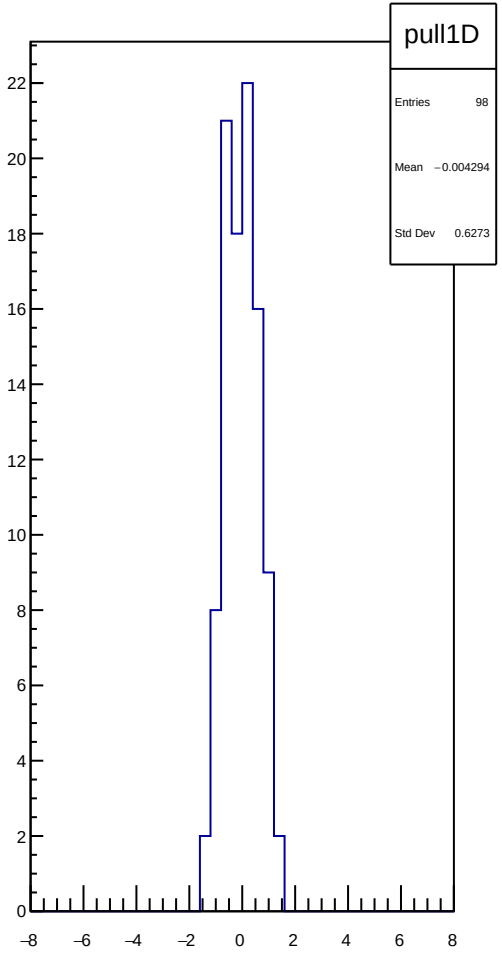

pull1D
Entries 98
Mean 0.000548
Std Dev 0.2516
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

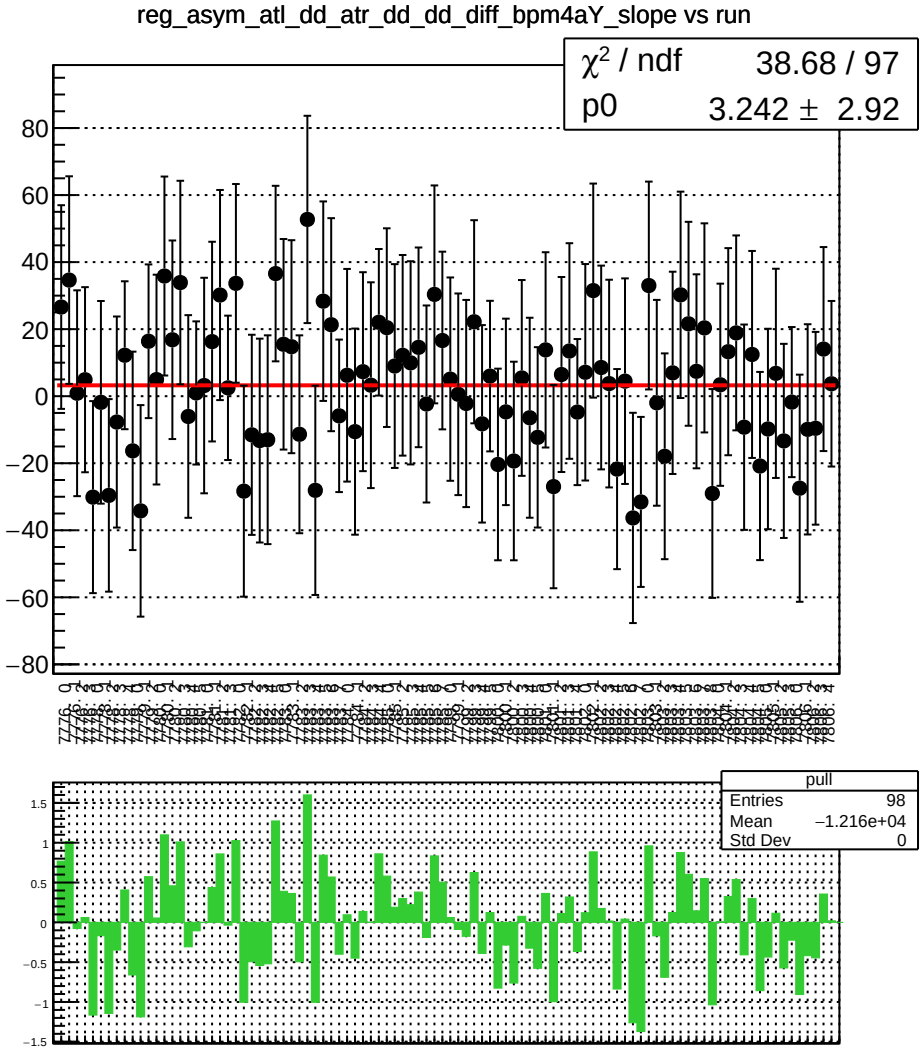

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.391 / 97
p0 −108.8 ± 6.161
0
−50
−100
−150
−200
pull
Entries 98
Mean 401.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean −0.002289
Std Dev 0.2746
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

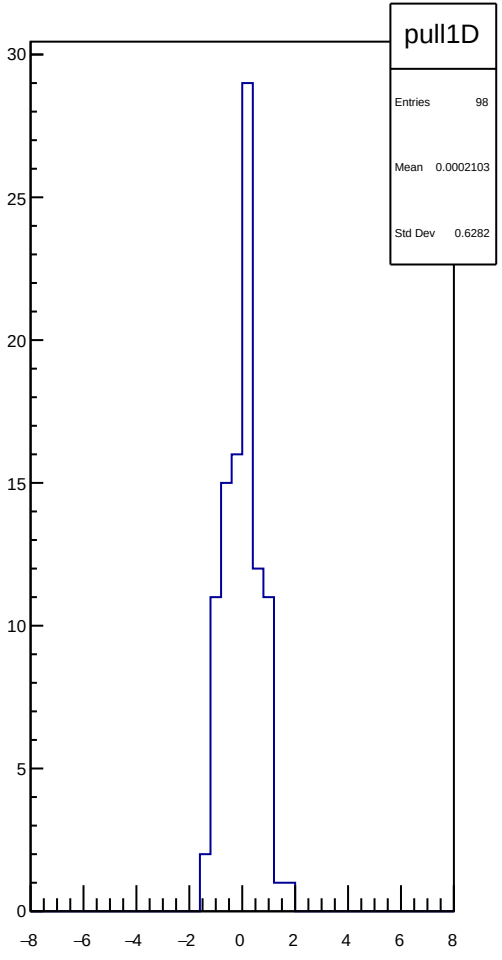

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.241 / 97
p0 −17.71 ± 8.235
100
50
0
−50
−100
−150
pull
Entries 98
Mean 3148
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean −0.0001701
Std Dev 0.2523
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

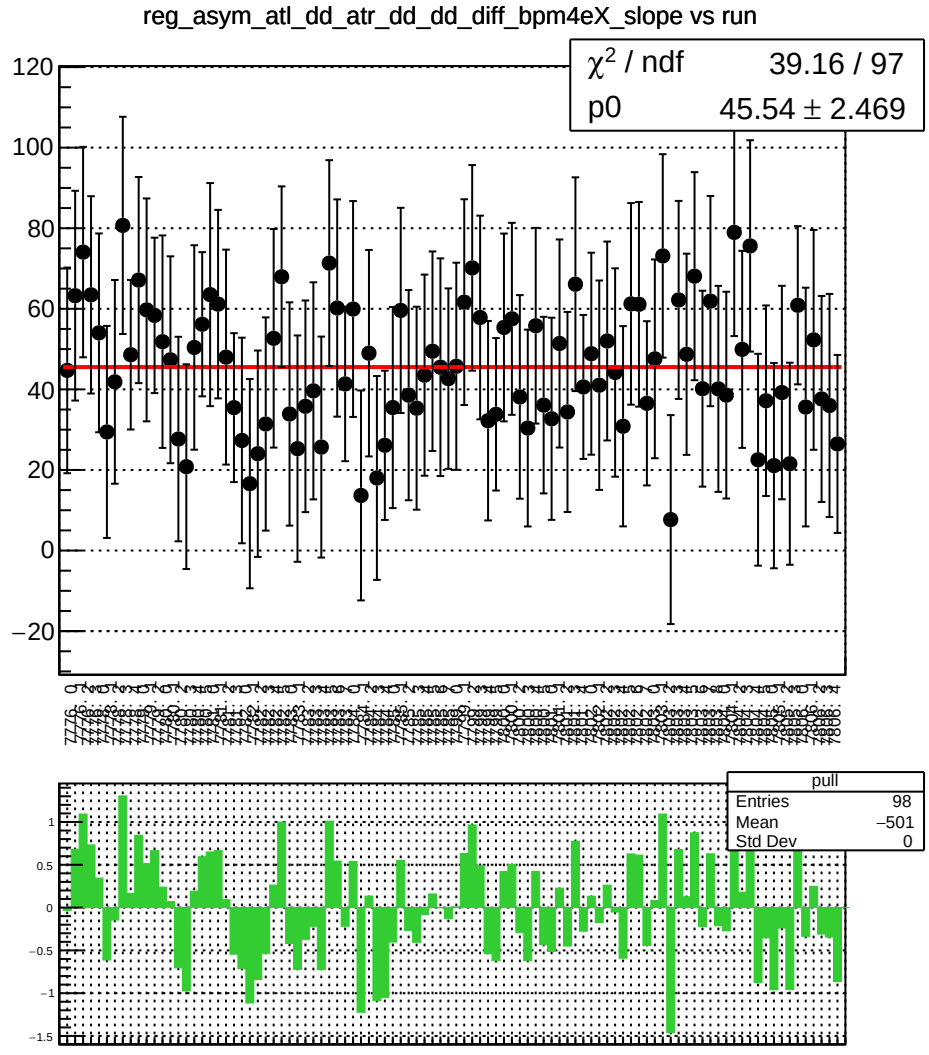

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 7.759 / 97
p0 122.1 ± 0.2606
126
124
122
120
118
pull
Entries 98
Mean −100.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean 0.002007
Std Dev 0.2814
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

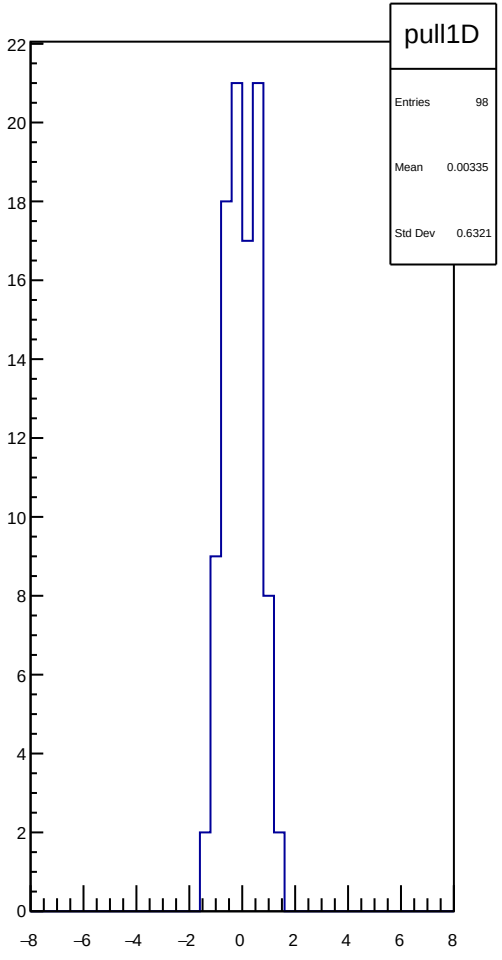

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 38.56 / 97
p0 23.76 ± 2.84
pull
Entries 98
Mean −374.3
Std Dev 0

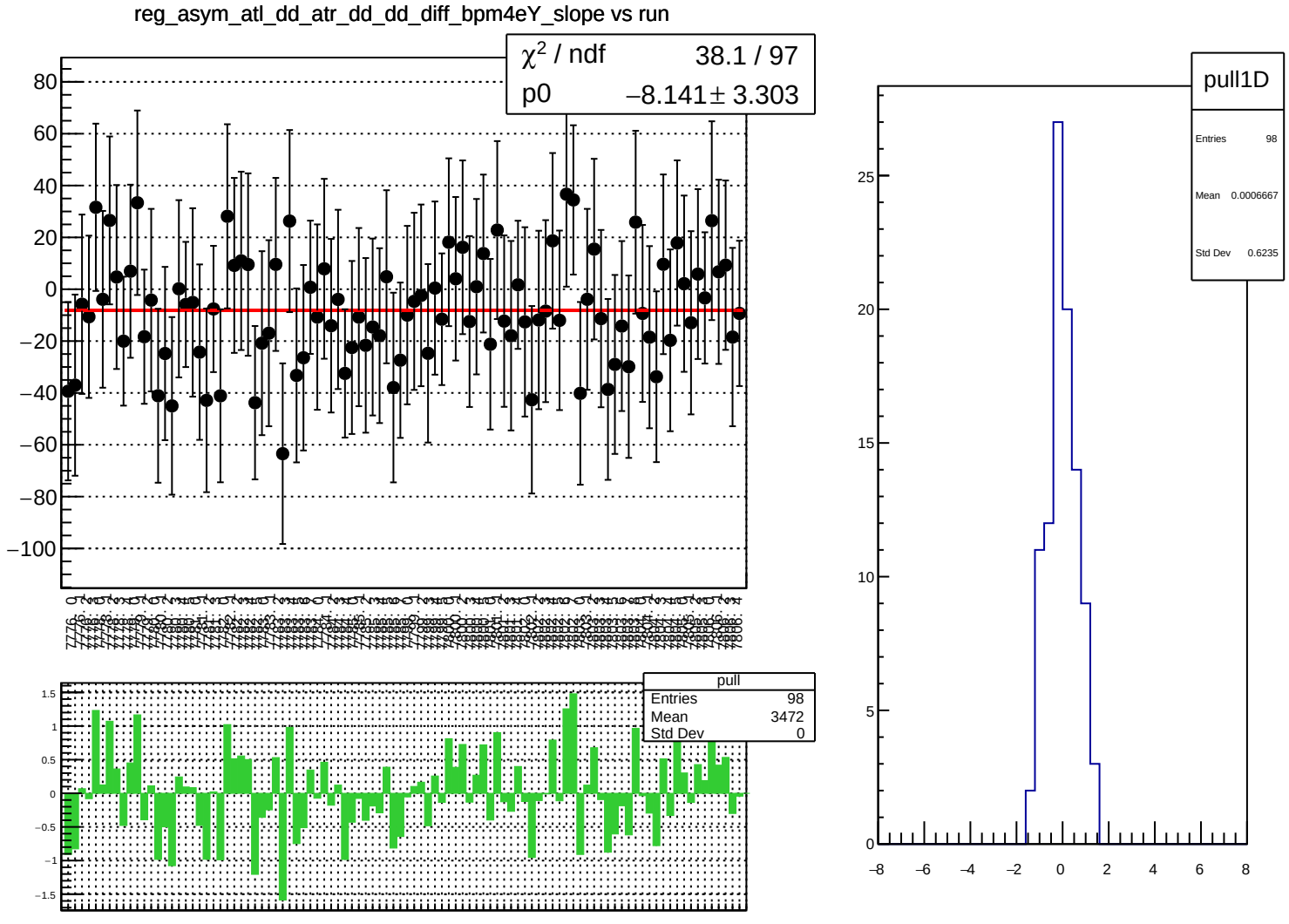

pull1D
Entries 98
Mean −0.004294
Std Dev 0.6273

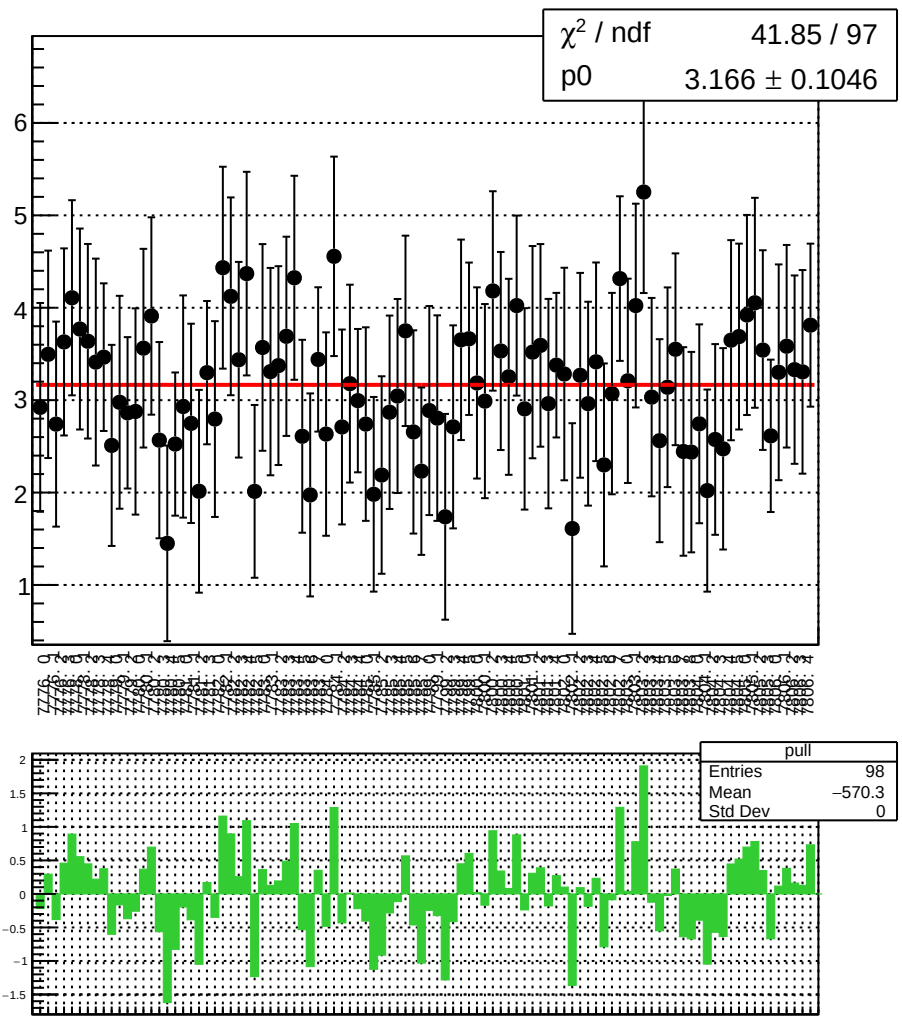

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.68 / 97
p0 3.242 ± 2.92
pull
Entries 98
Mean −1.216e+04
Std Dev 0

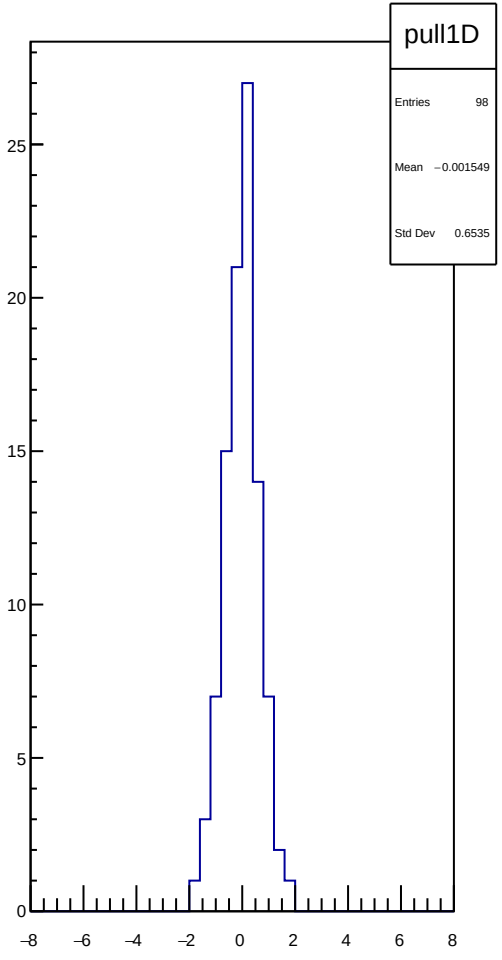

pull1D
Entries 98
Mean 0.0002103
Std Dev 0.6282

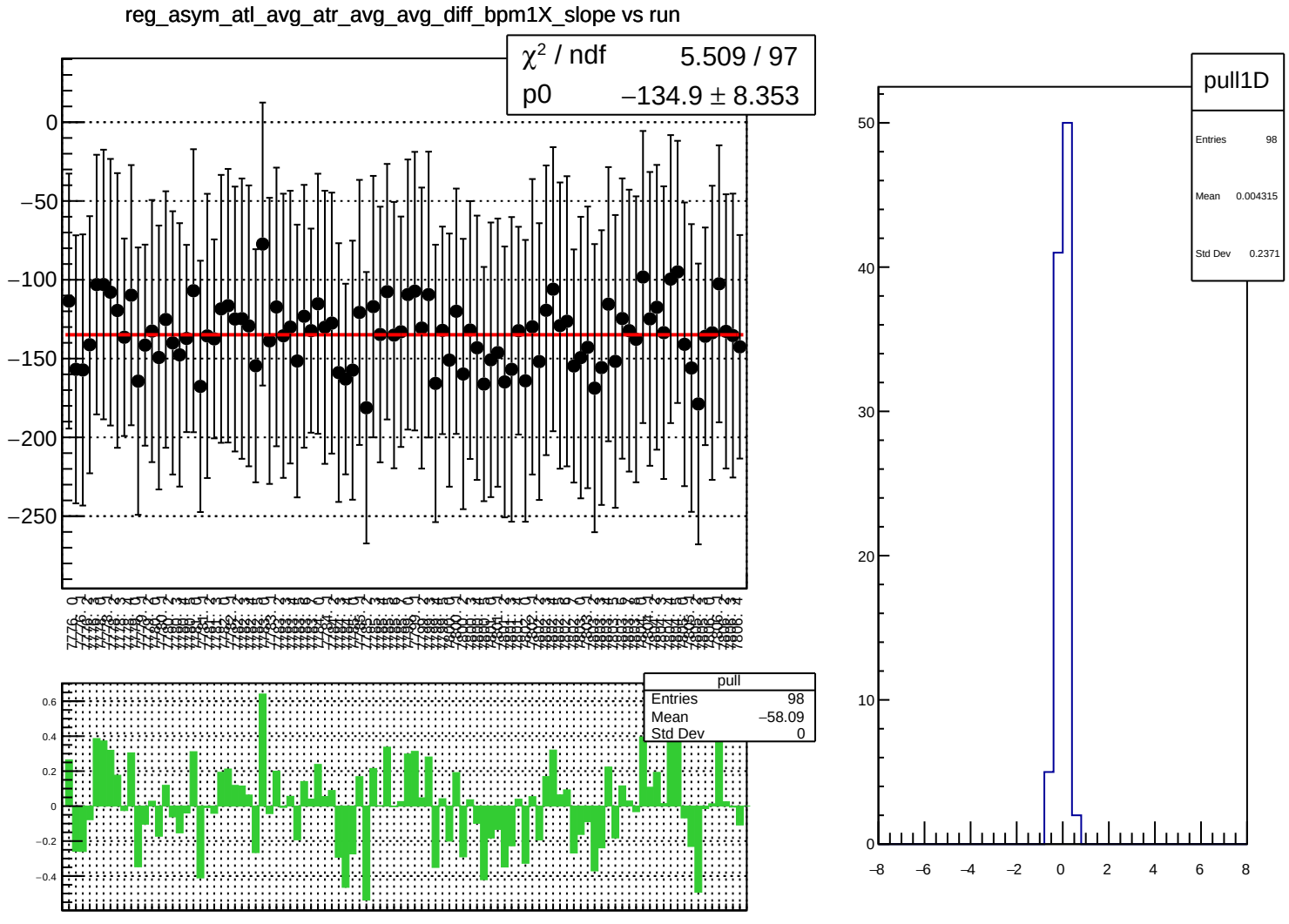

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.16 / 97
p0 45.54 ± 2.469
pull
Entries 98
Mean −501
Std Dev 0

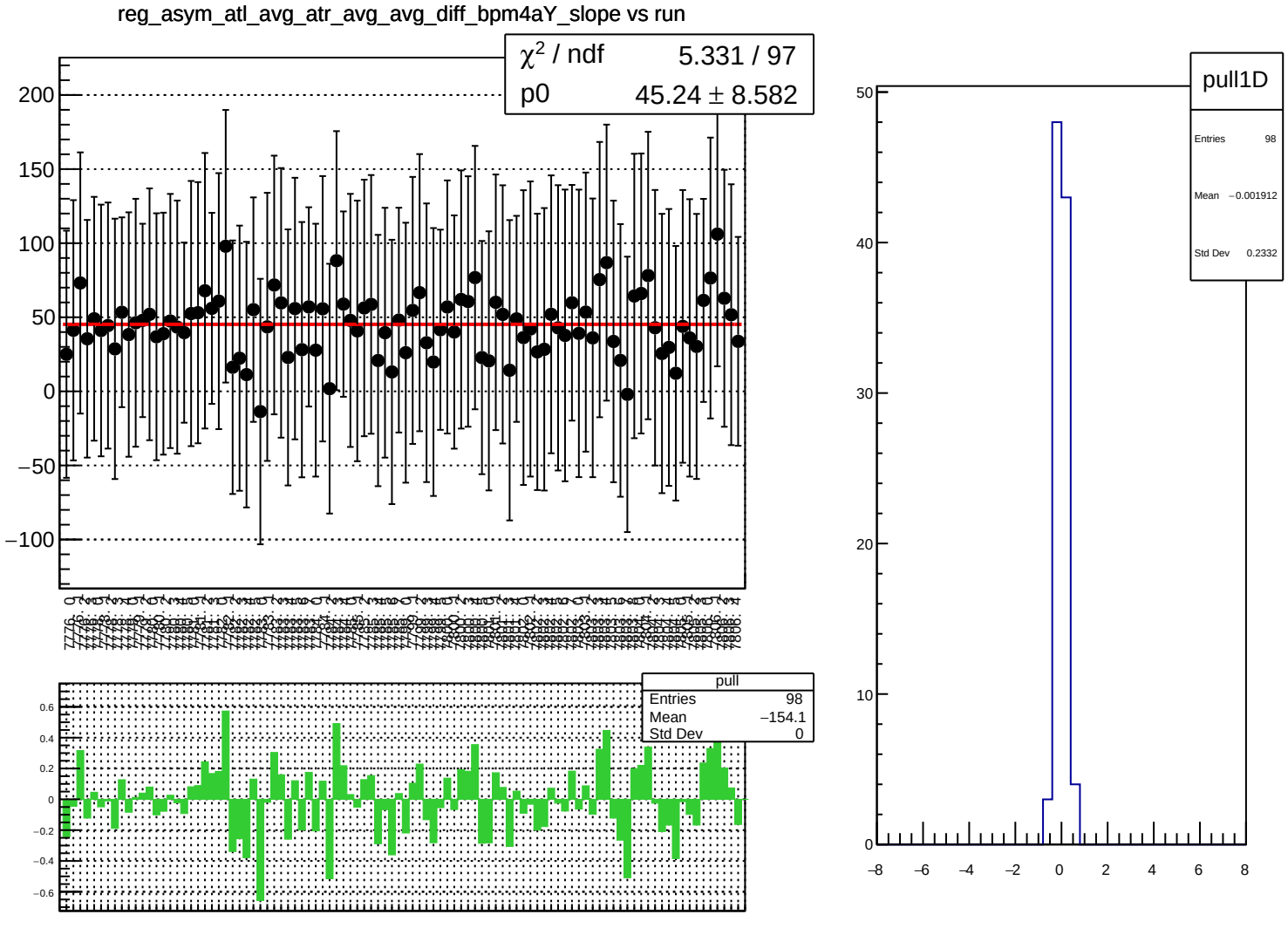

pull1D
Entries 98
Mean 0.00335
Std Dev 0.6321

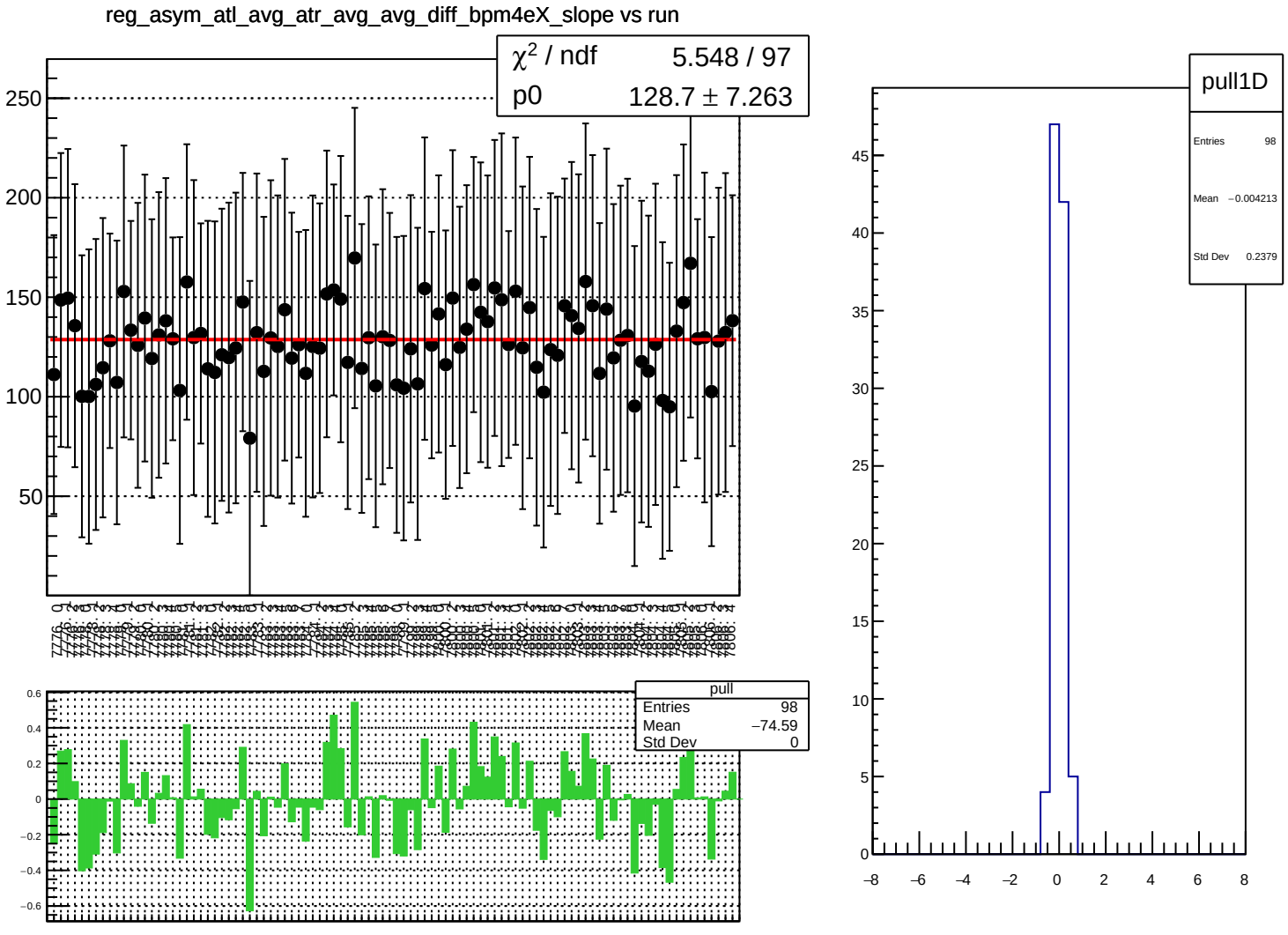

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.1 / 97
p0 −8.141 ± 3.303
pull
Entries 98
Mean 3472
Std Dev 0
pull1D
Entries 98
Mean 0.0006667
Std Dev 0.6235

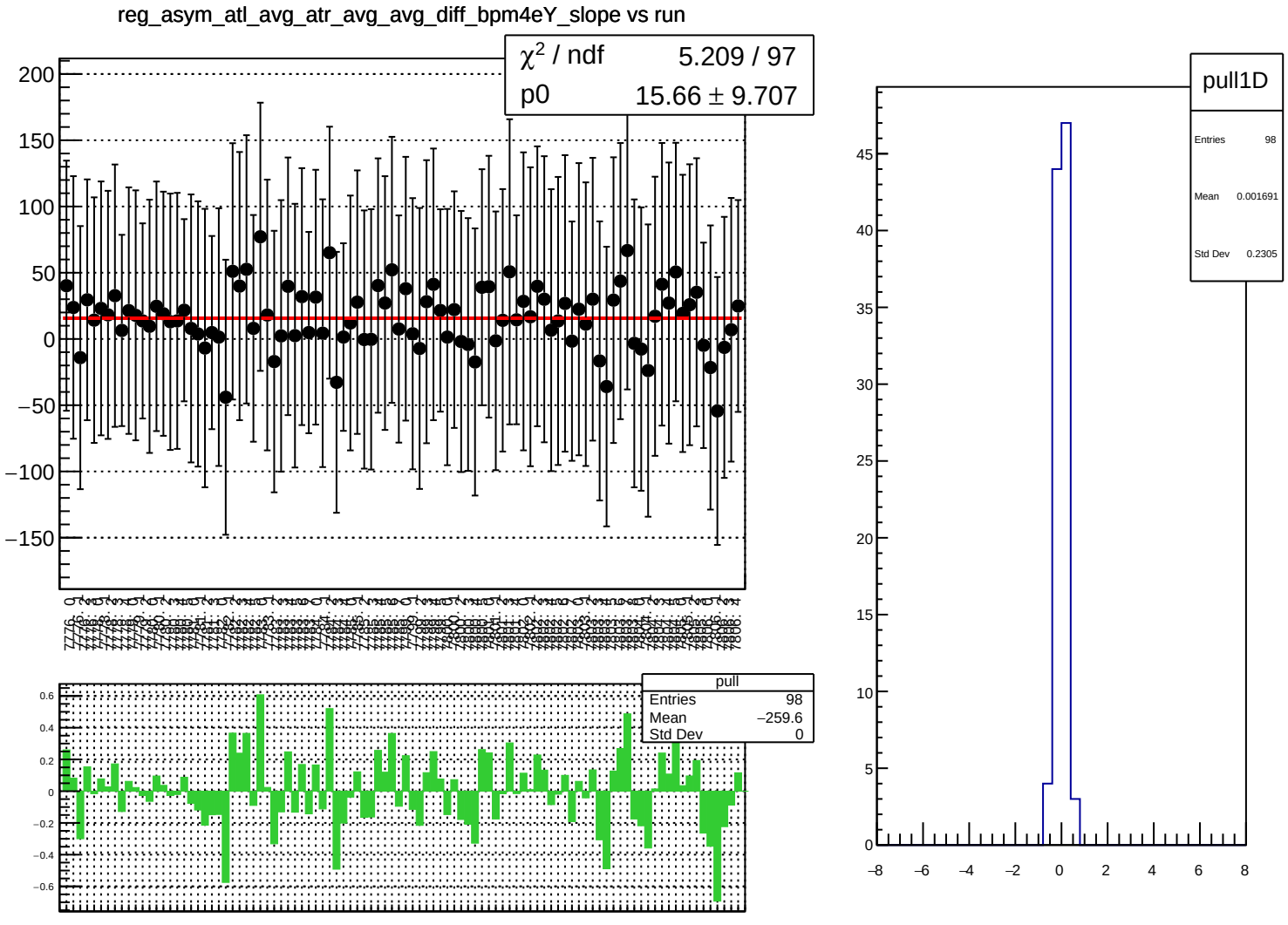

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 41.85 / 97
p0 3.166 ± 0.1046
pull
Entries 98
Mean −570.3
Std Dev 0

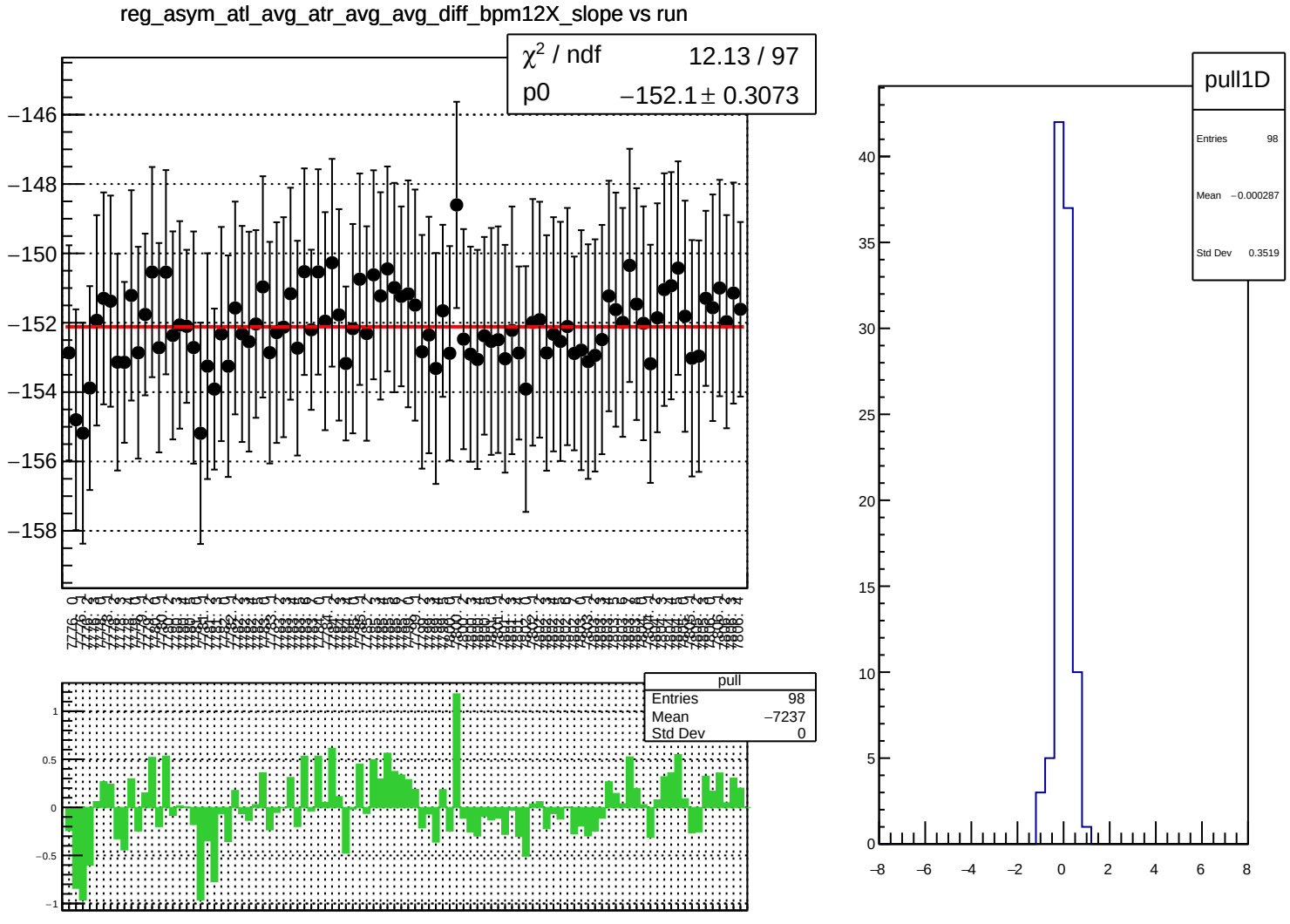

pull1D
Entries 98
Mean −0.001549
Std Dev 0.6535

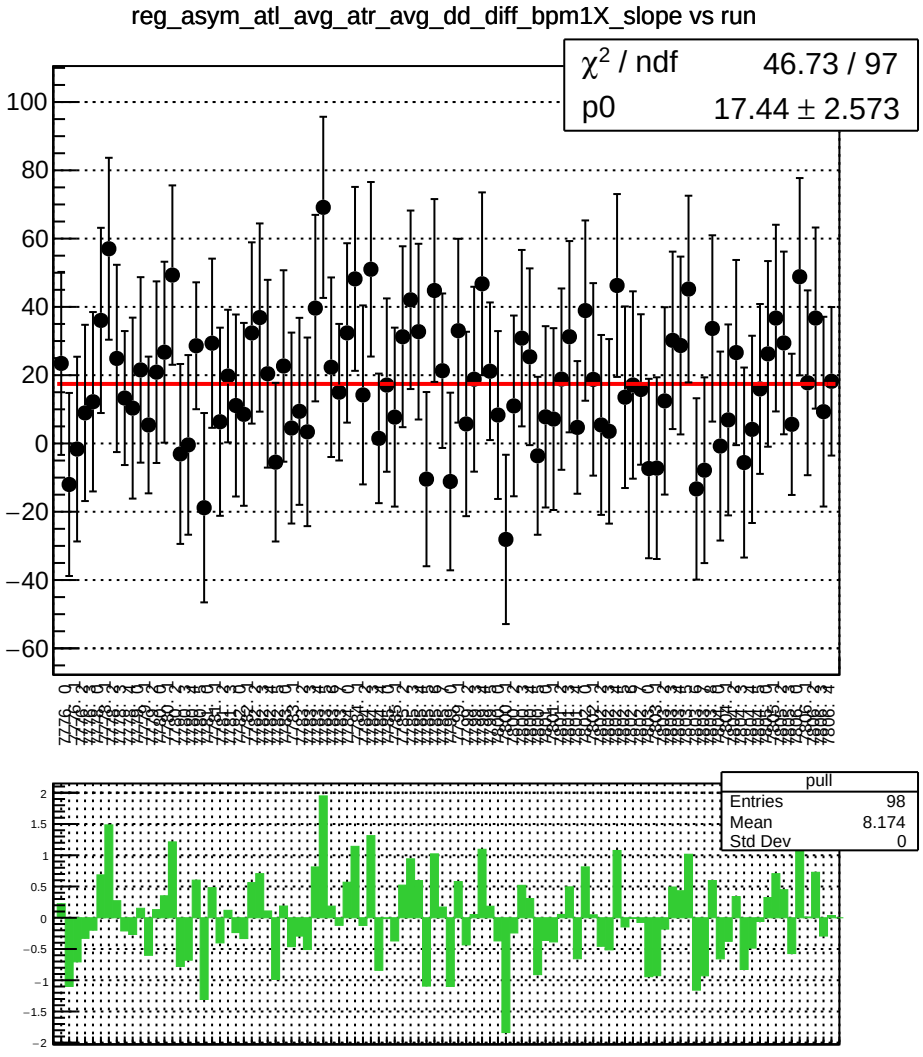

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 5.509 / 97
p0 −134.9 ± 8.353
0
−50
−100
−150
−200
−250
pull
Entries 98
Mean −58.09
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 98
Mean 0.004315
Std Dev 0.2371
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

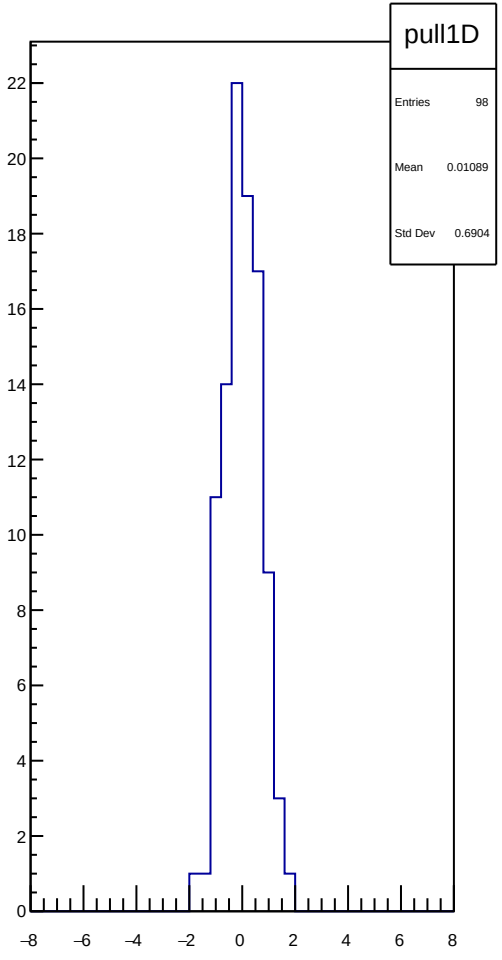

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.331 / 97
p0 45.24 ± 8.582
200
150
100
50
0
−50
−100
pull
Entries 98
Mean −154.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean −0.001912
Std Dev 0.2332
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

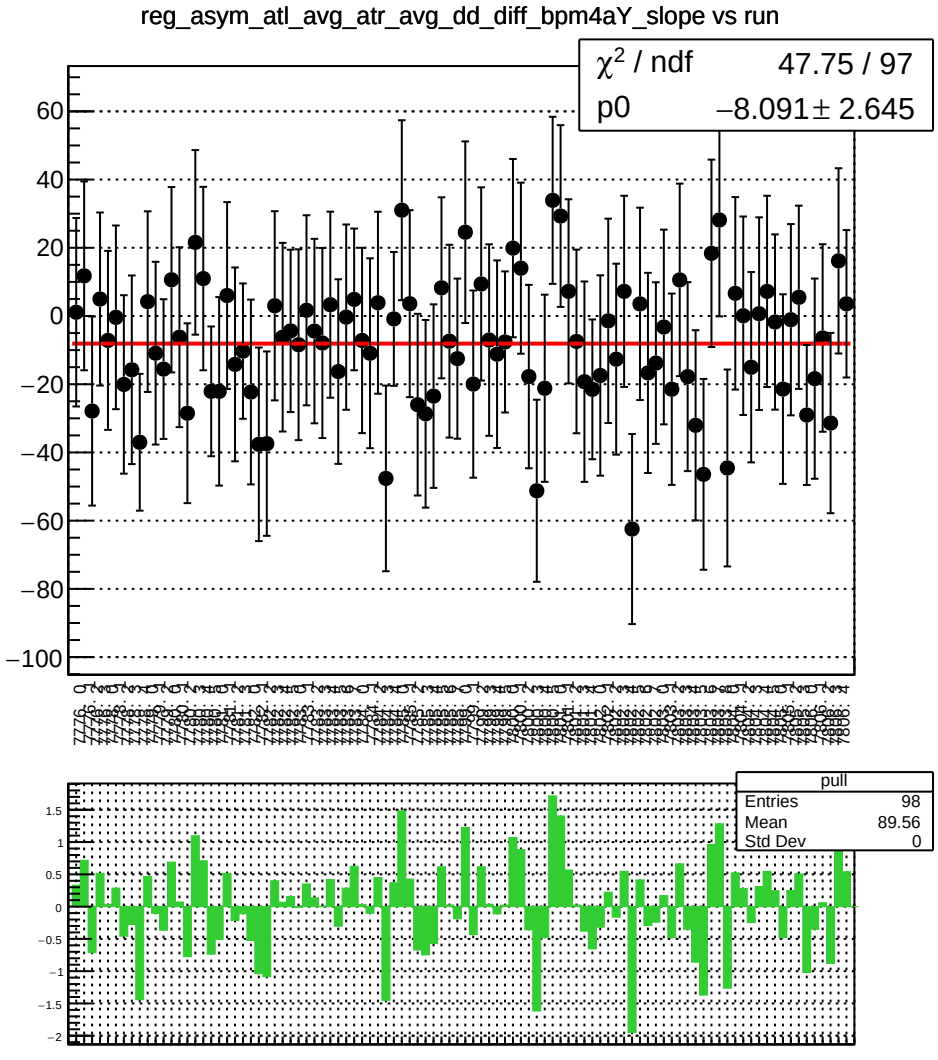

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.548 / 97
p0 128.7 ± 7.263
250
200
150
100
50
pull
Entries 98
Mean −74.59
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean −0.004213
Std Dev 0.2379
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

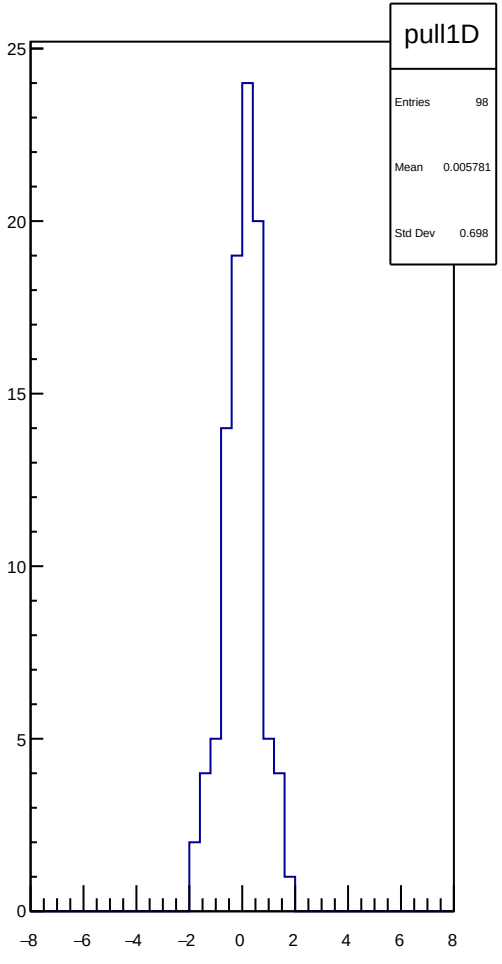

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.209 / 97
p0 15.66 ± 9.707
200
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −259.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean 0.001691
Std Dev 0.2305
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

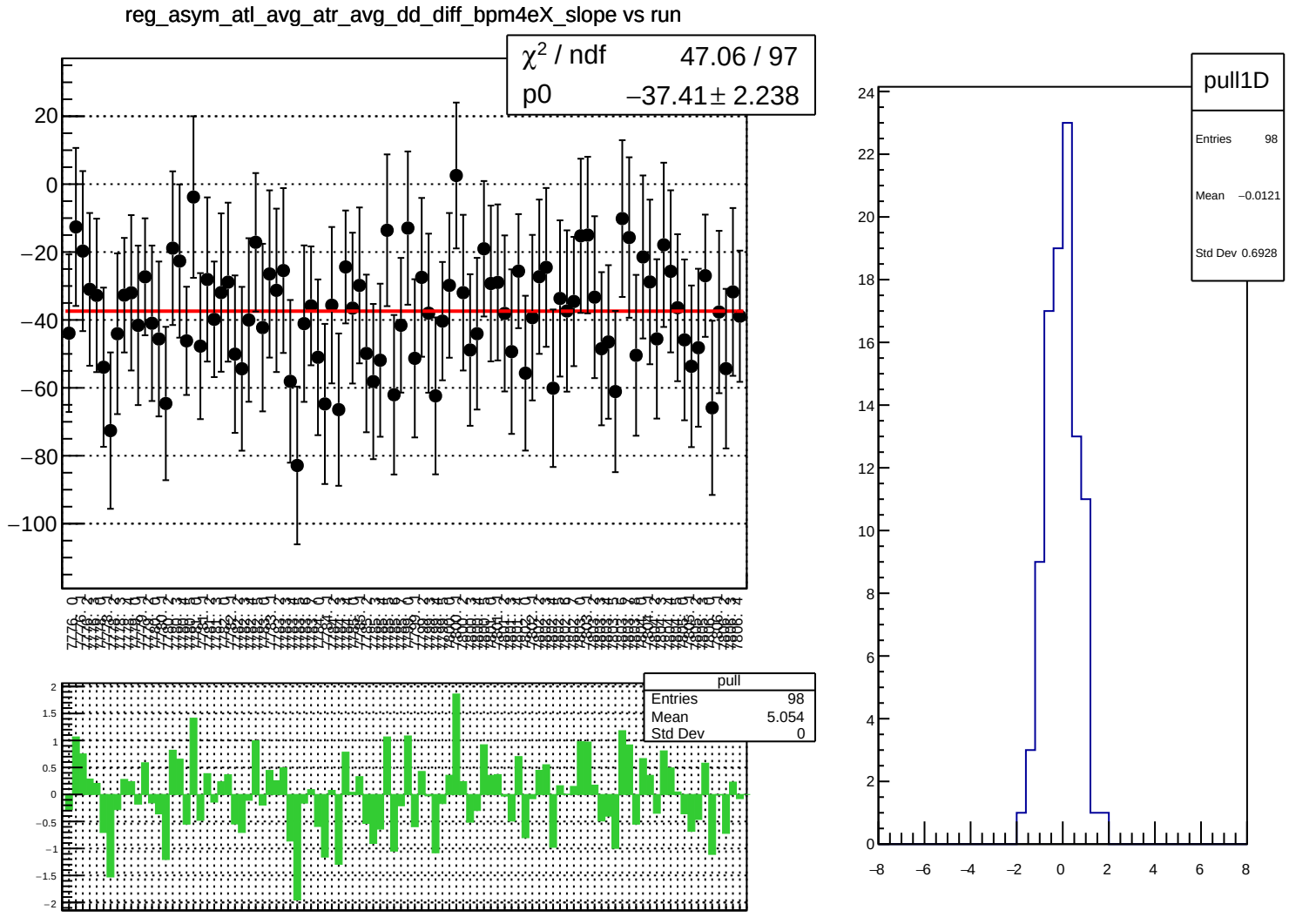

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 12.13 / 97
p0 −152.1 ± 0.3073
−146
−148
−150
−152
−154
−156
−158
pull
Entries 98
Mean −7237
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean −0.000287
Std Dev 0.3519
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

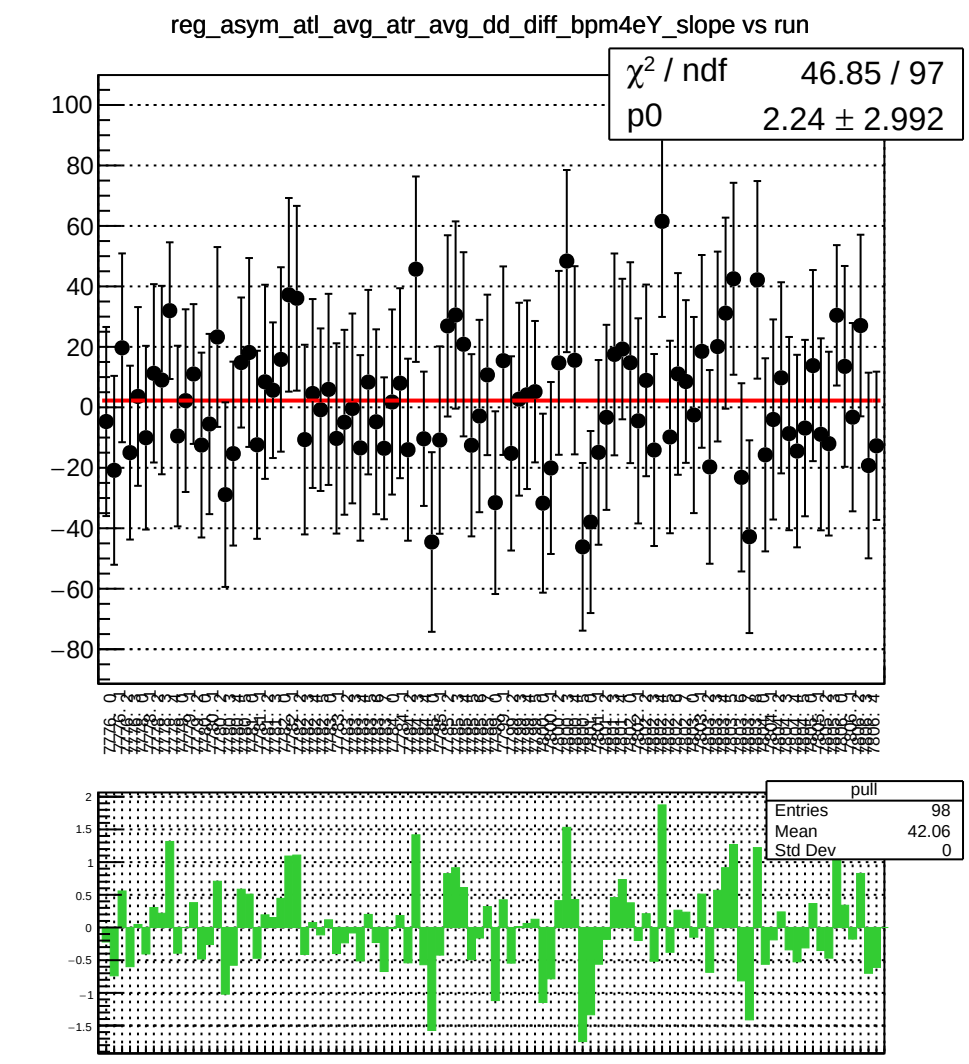

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 46.73 / 97
p0 17.44 ± 2.573
pull
Entries 98
Mean 8.174
Std Dev 0

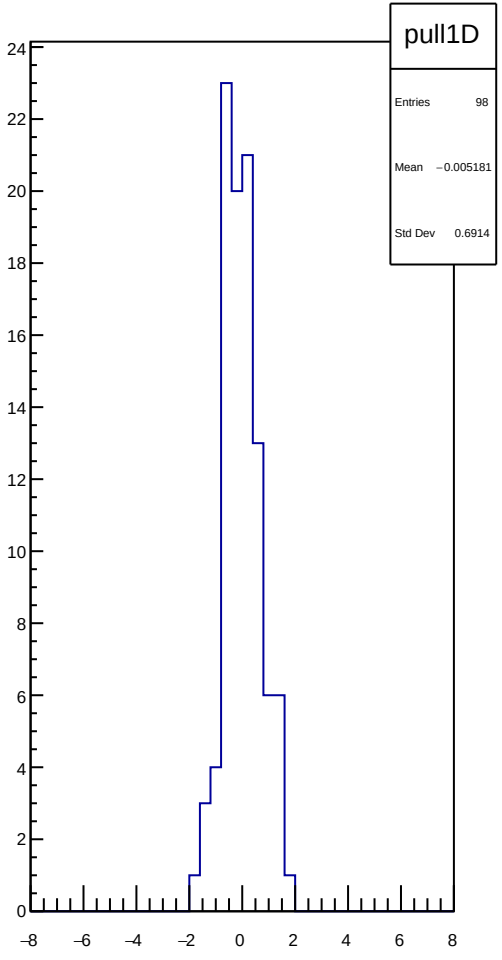

pull1D
Entries 98
Mean 0.01089
Std Dev 0.6904

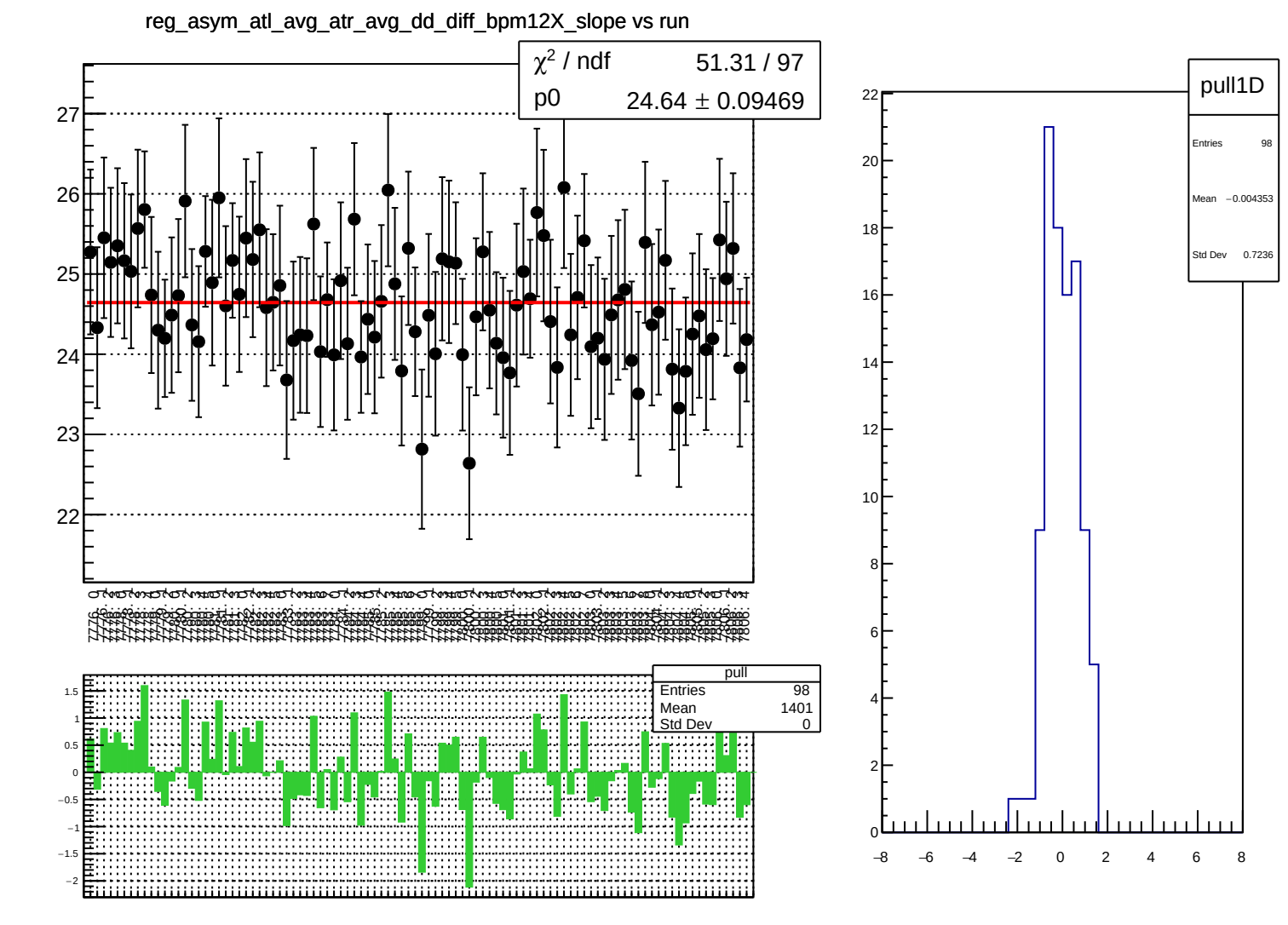

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.75 / 97
p0 −8.091 ± 2.645
pull
Entries 98
Mean 89.56
Std Dev 0

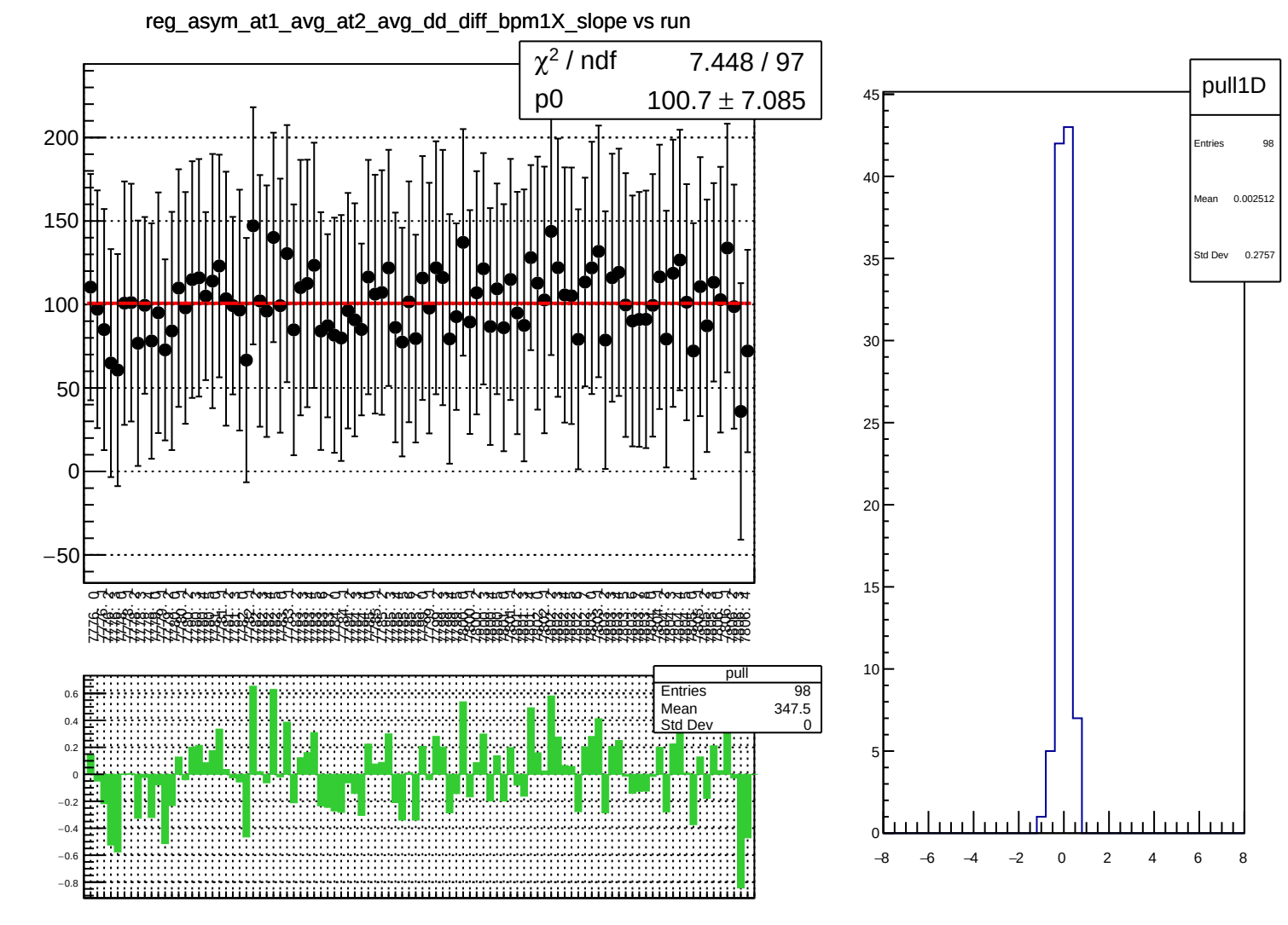

pull1D
Entries 98
Mean 0.005781
Std Dev 0.698

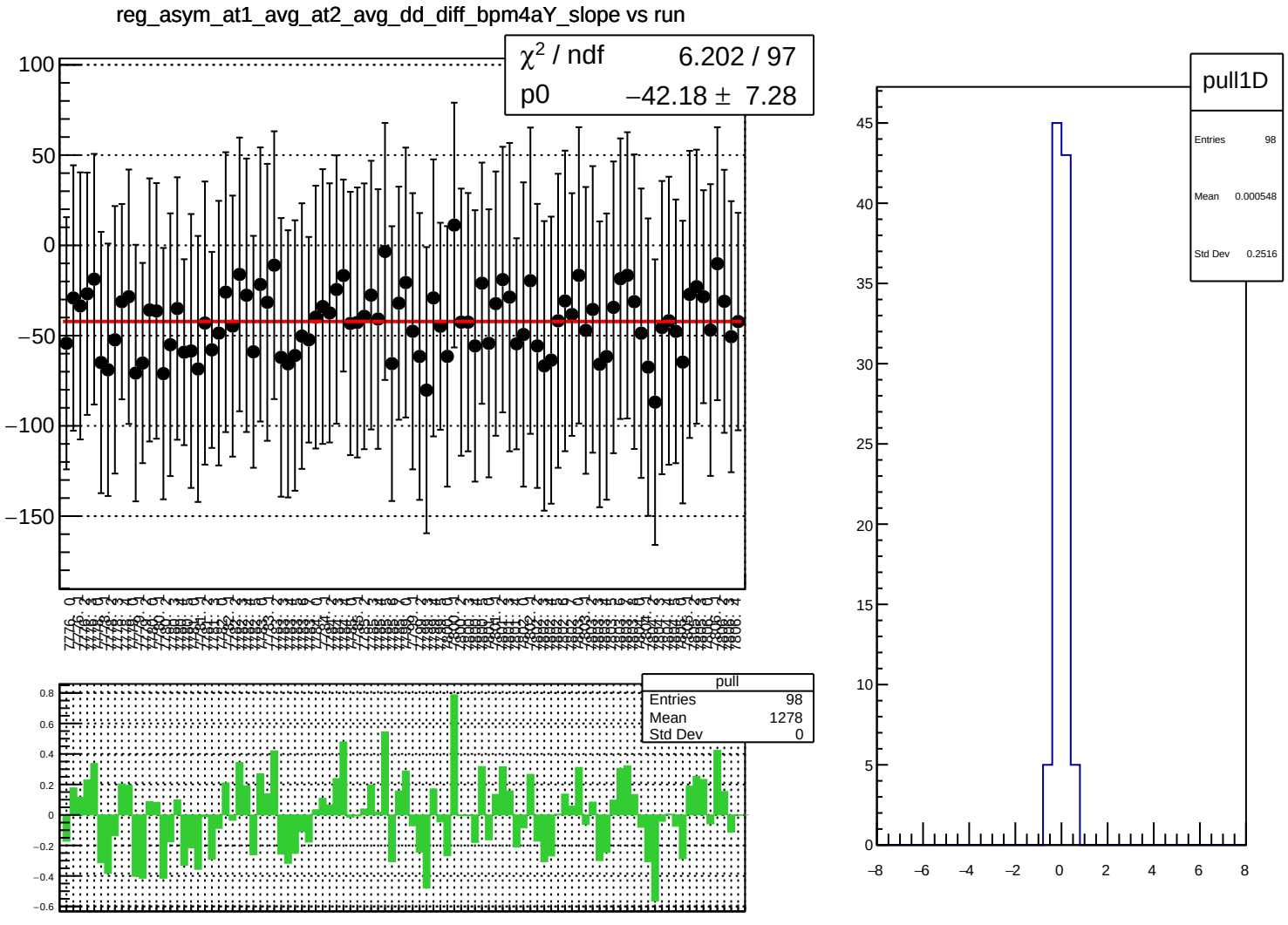

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.06 / 97
p0 −37.41± 2.238
20
0
−20
−40
−60
−80
−100
pull
Entries 98
Mean 5.054
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.0121
Std Dev 0.6928
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

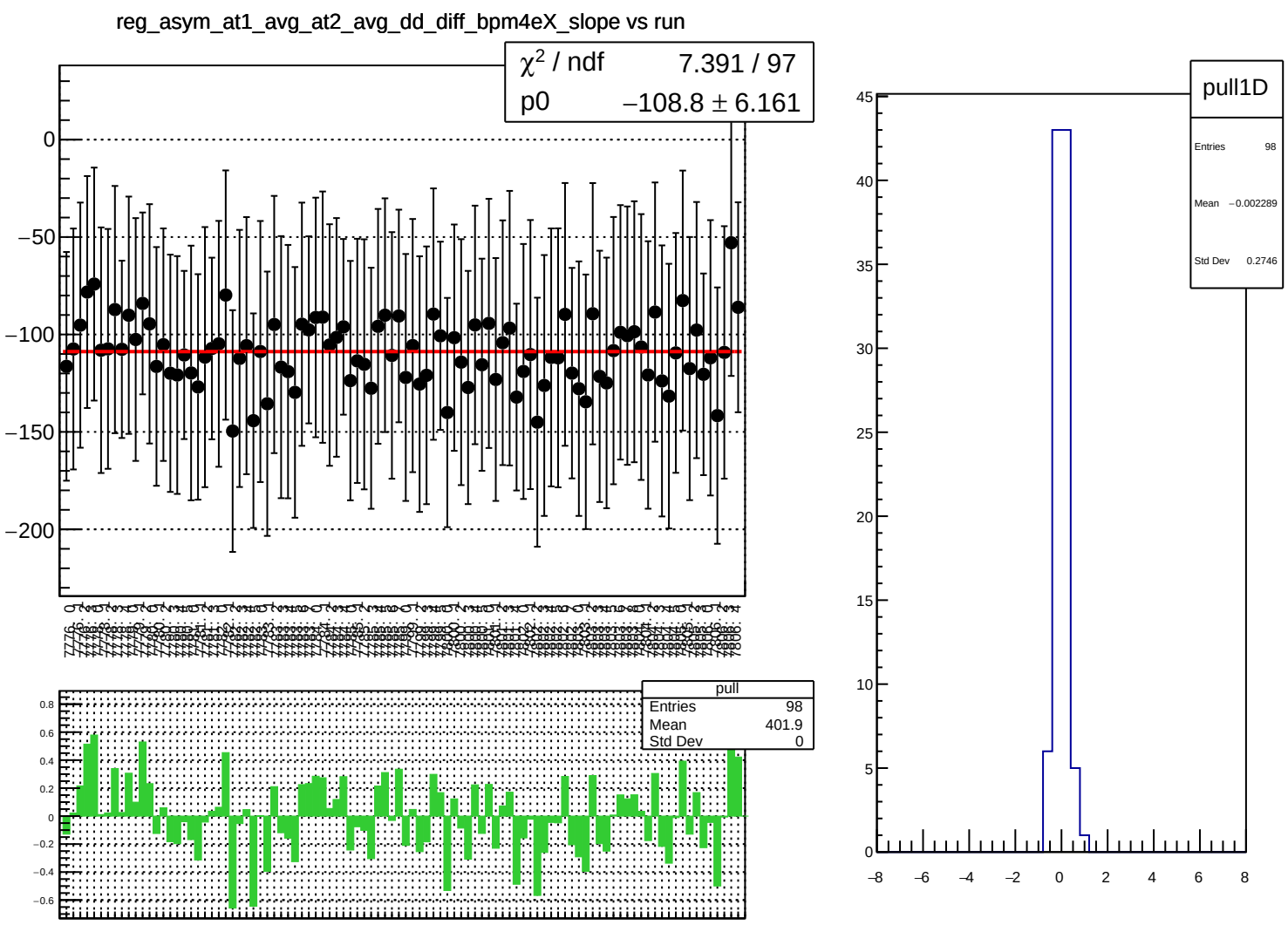

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.85 / 97
p0 2.24 ± 2.992
pull
Entries 98
Mean 42.06
Std Dev 0

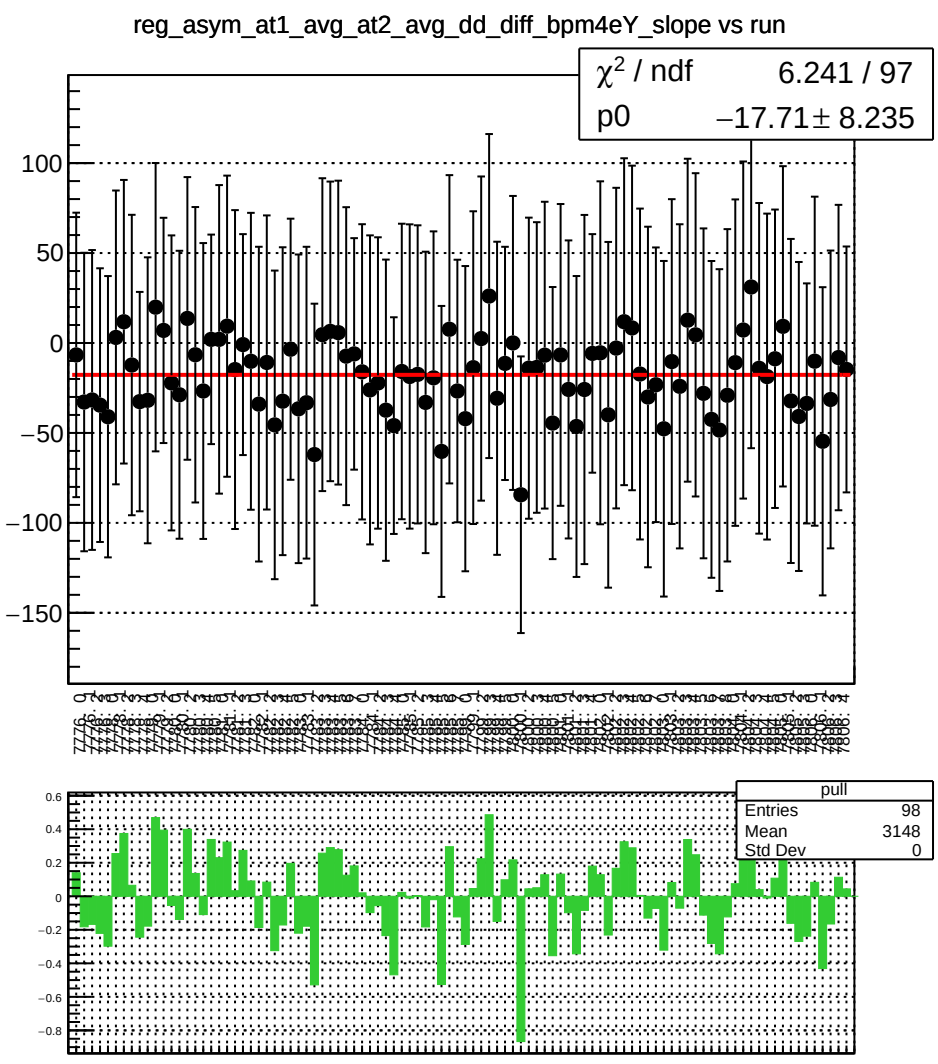

pull1D
Entries 98
Mean −0.005181
Std Dev 0.6914

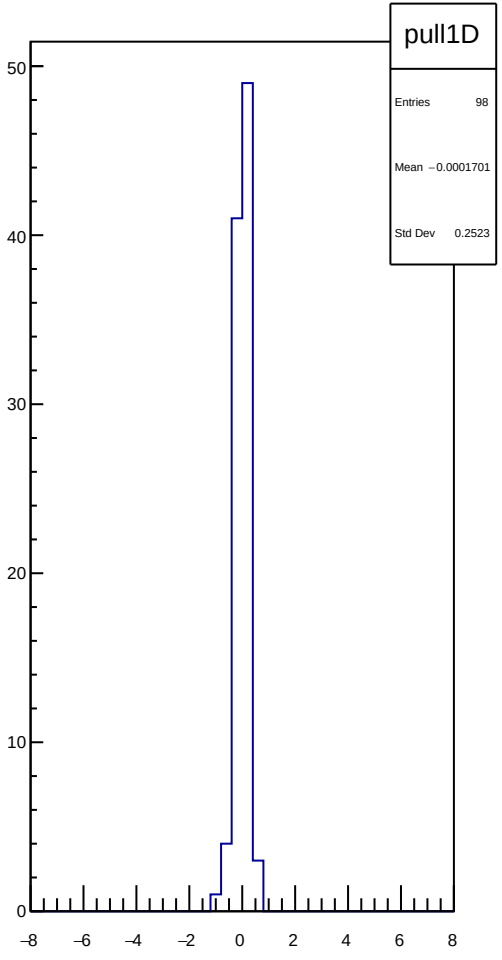

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 51.31 / 97
p0 24.64 ± 0.09469
pull
Entries 98
Mean 1401
Std Dev 0
pull1D
Entries 98
Mean −0.004353
Std Dev 0.7236

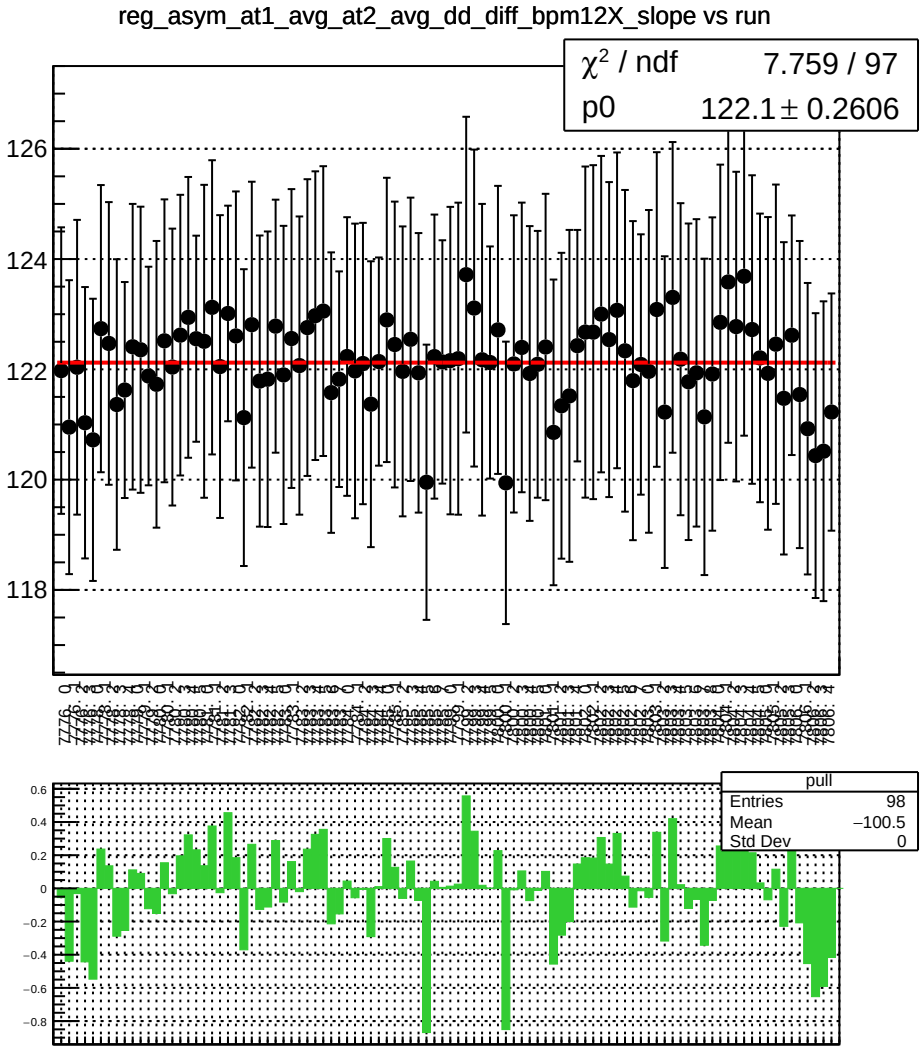

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 7.448 / 97
p0 100.7 ± 7.085
200
150
100
50
0
−50
pull
Entries 98
Mean 347.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean 0.002512
Std Dev 0.2757
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

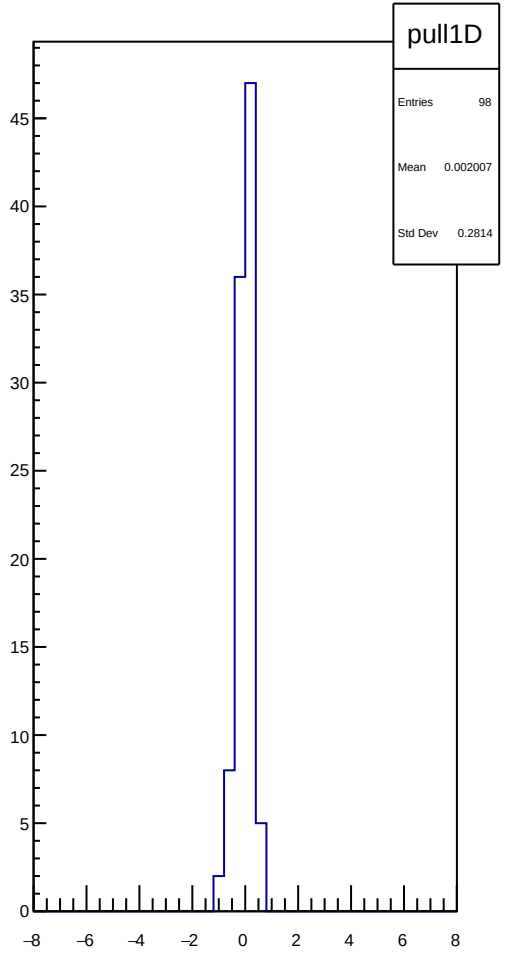

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.202 / 97
p0 −42.18 ± 7.28
pull
Entries 98
Mean 1278
Std Dev 0
pull1D
Entries 98
Mean 0.000548
Std Dev 0.2516

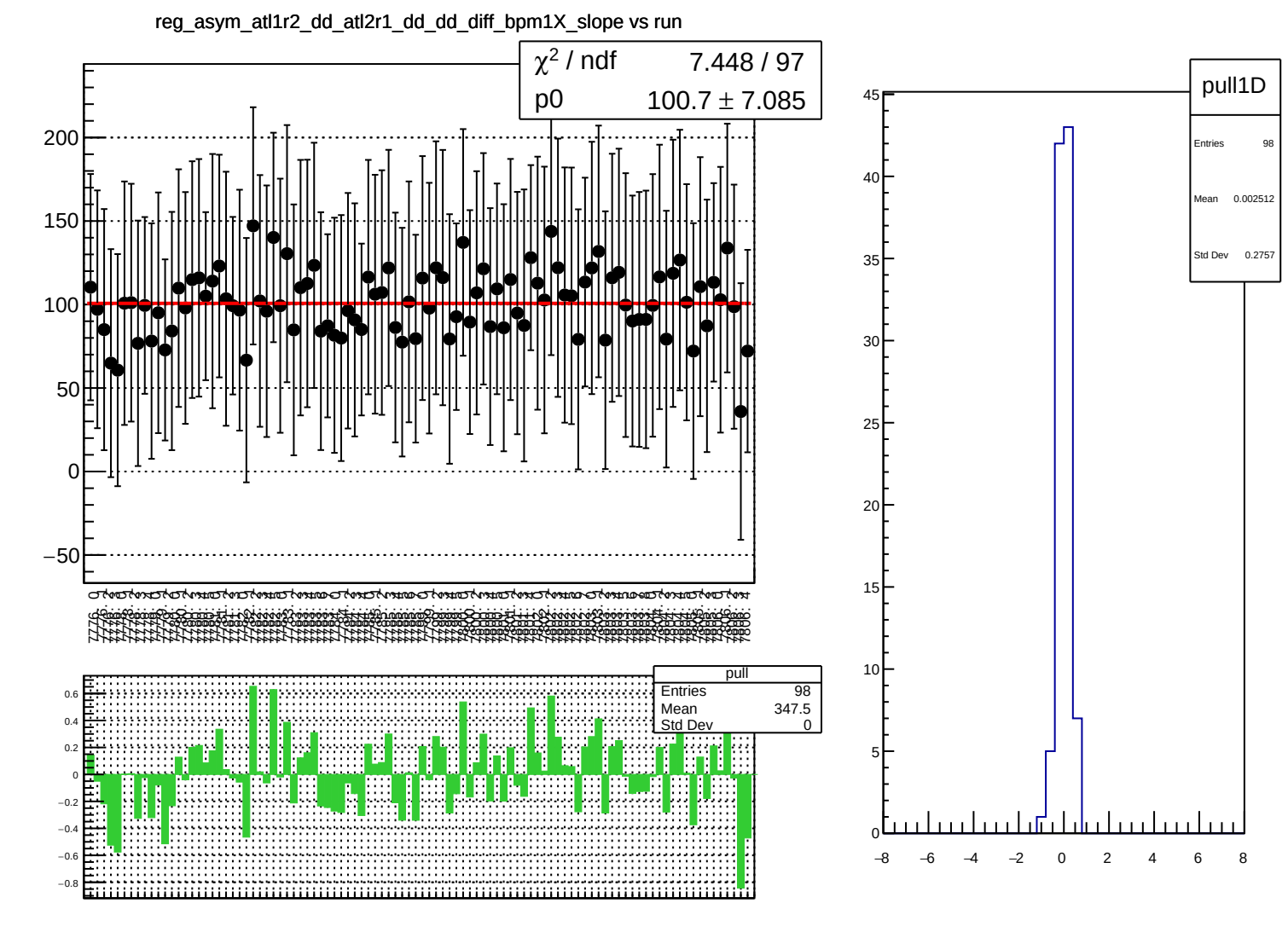

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.391 / 97
p0 −108.8 ± 6.161
0
−50
−100
−150
−200
pull
Entries 98
Mean 401.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean −0.002289
Std Dev 0.2746
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

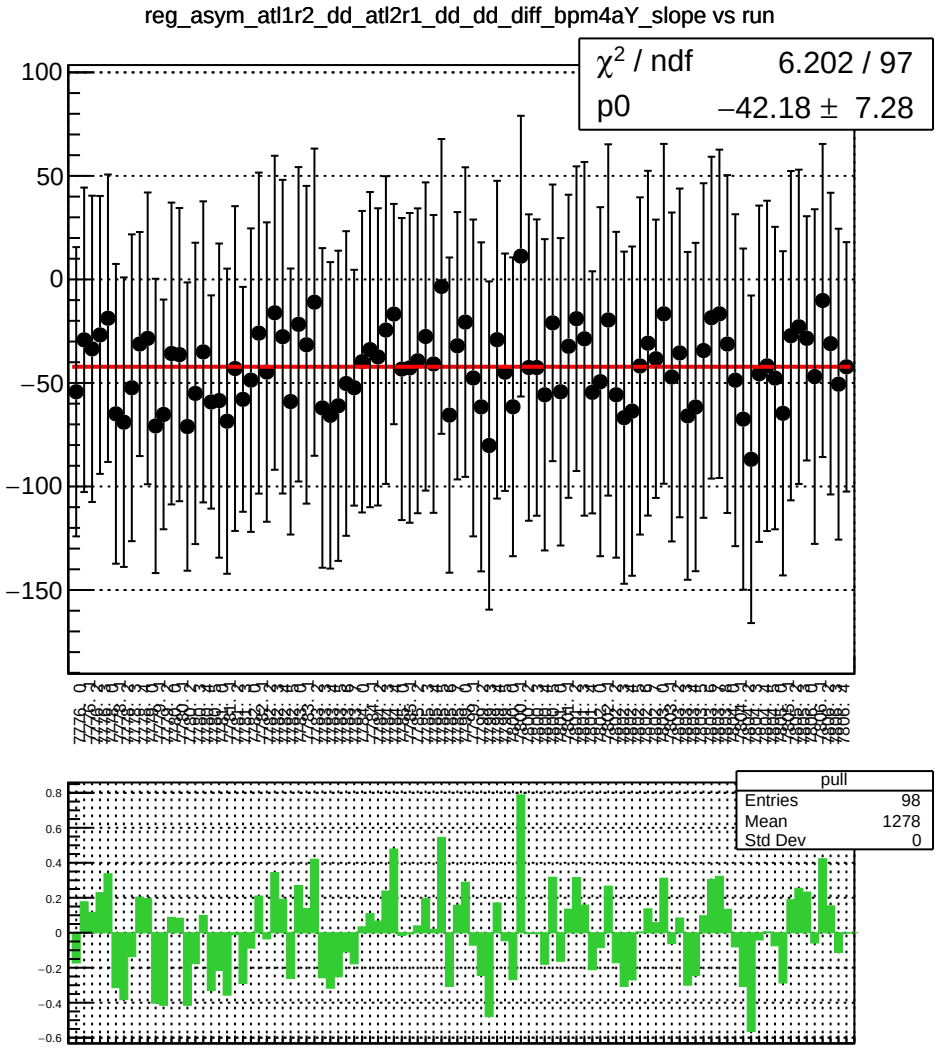

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.241 / 97
p0 −17.71 ± 8.235
100
50
0
−50
−100
−150
pull
Entries 98
Mean 3148
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

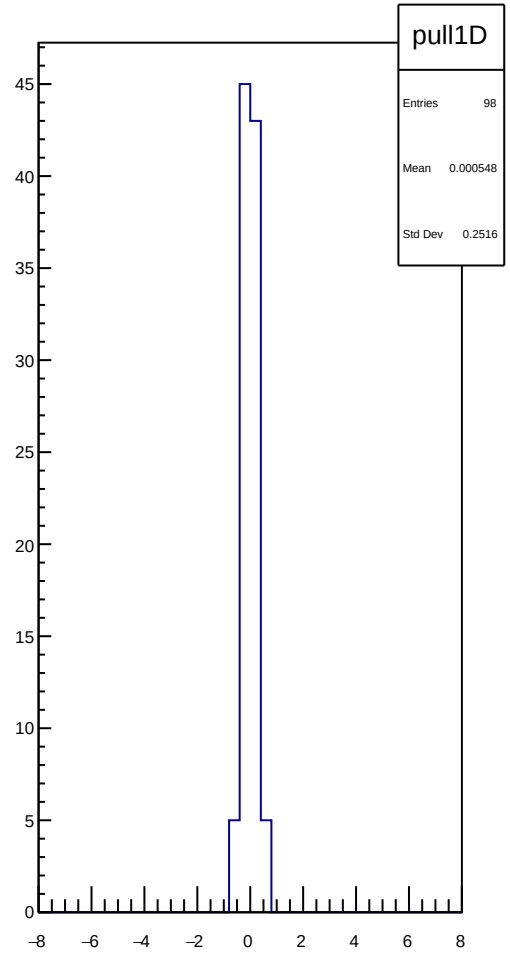

pull1D
Entries 98
Mean −0.0001701
Std Dev 0.2523
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

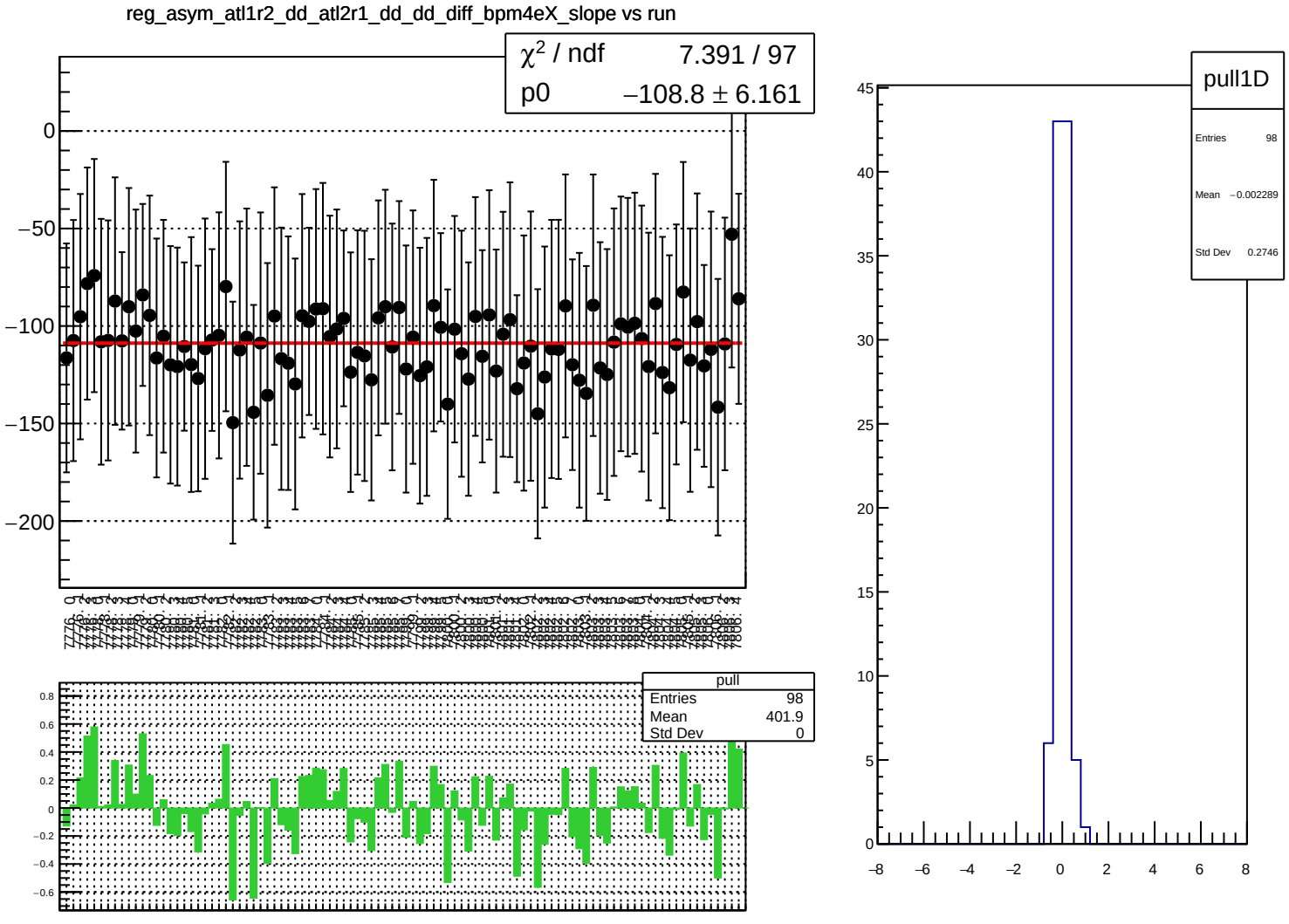

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 7.759 / 97
p0 122.1 ± 0.2606
126
124
122
120
118
pull
Entries 98
Mean −100.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

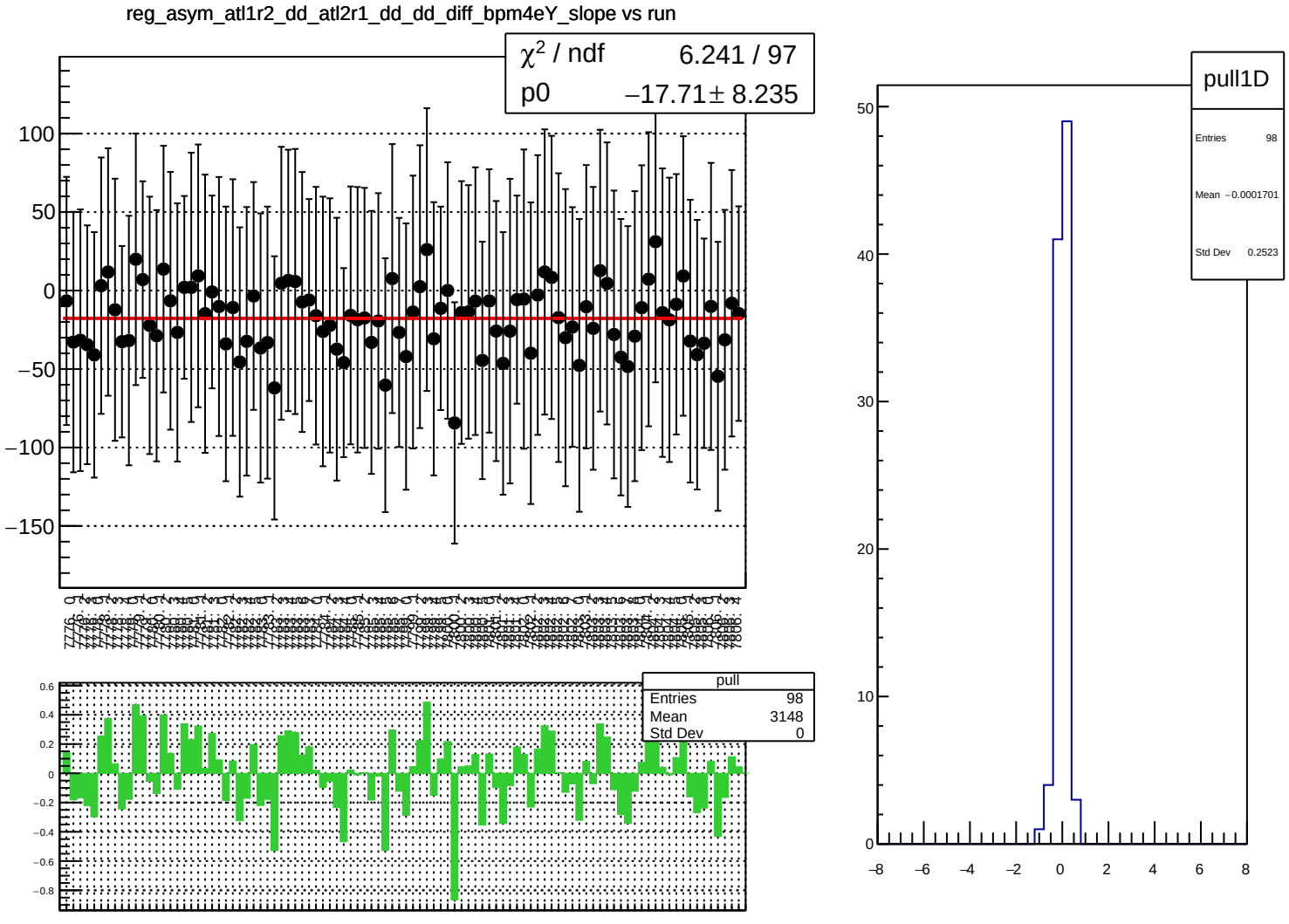

pull1D
Entries 98
Mean 0.002007
Std Dev 0.2814
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

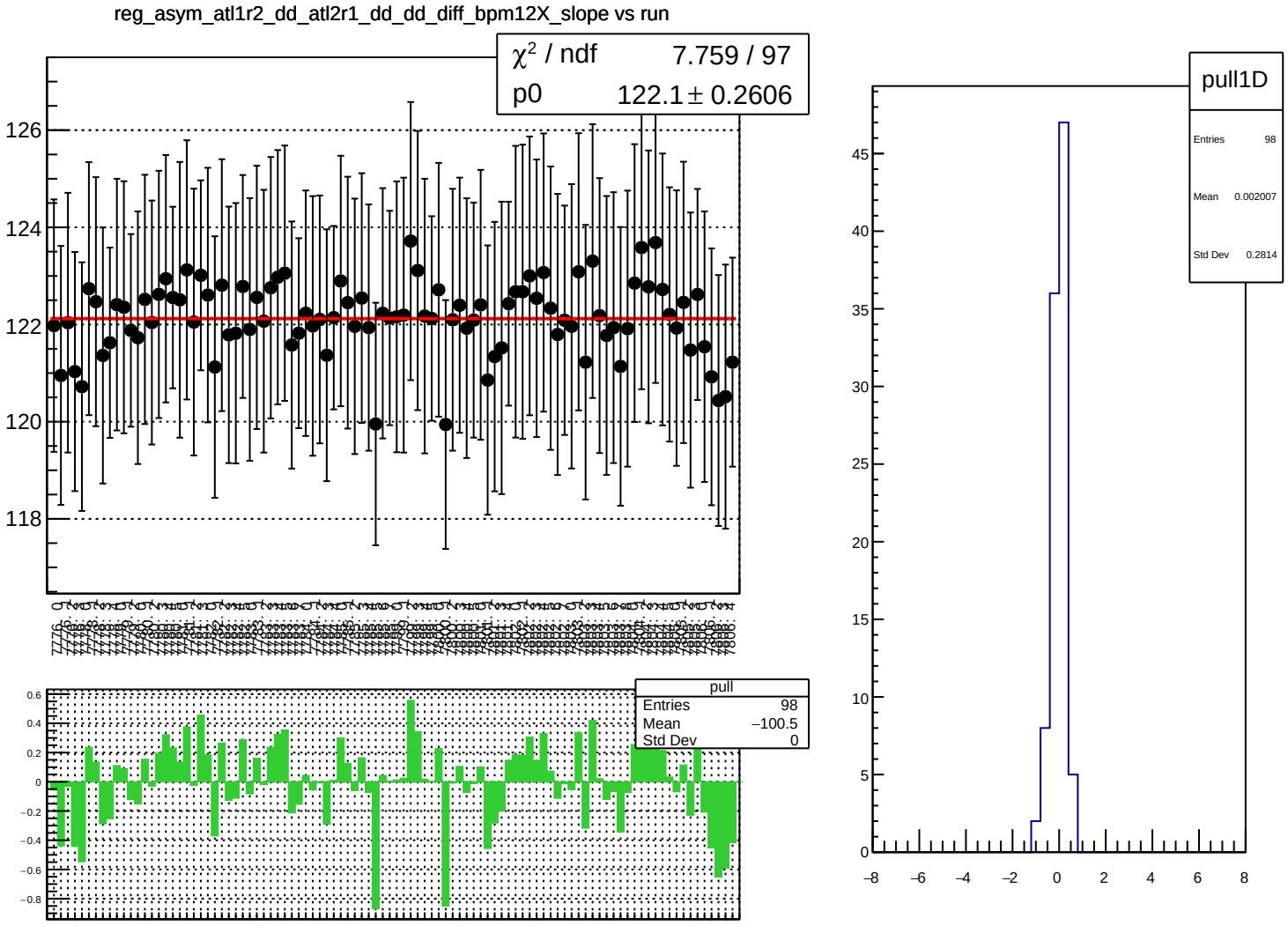

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 7.448 / 97
p0 100.7 ± 7.085
200
150
100
50
0
−50
pull
Entries 98
Mean 347.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean 0.002512
Std Dev 0.2757
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.202 / 97
p0 −42.18 ± 7.28
pull
Entries 98
Mean 1278
Std Dev 0


pull1D
Entries 98
Mean 0.000548
Std Dev 0.2516


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.391 / 97
p0 −108.8 ± 6.161
0
−50
−100
−150
−200
pull
Entries 98
Mean 401.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean −0.002289
Std Dev 0.2746
45
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 6.241 / 97
p0 −17.71 ± 8.235
100
50
0
−50
−100
−150
pull
Entries 98
Mean 3148
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean −0.0001701
Std Dev 0.2523
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 7.759 / 97
p0 122.1 ± 0.2606
126
124
122
120
118
pull
Entries 98
Mean −100.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean 0.002007
Std Dev 0.2814
45
40
35
30
25
20
15
10
5
0
−8
−6
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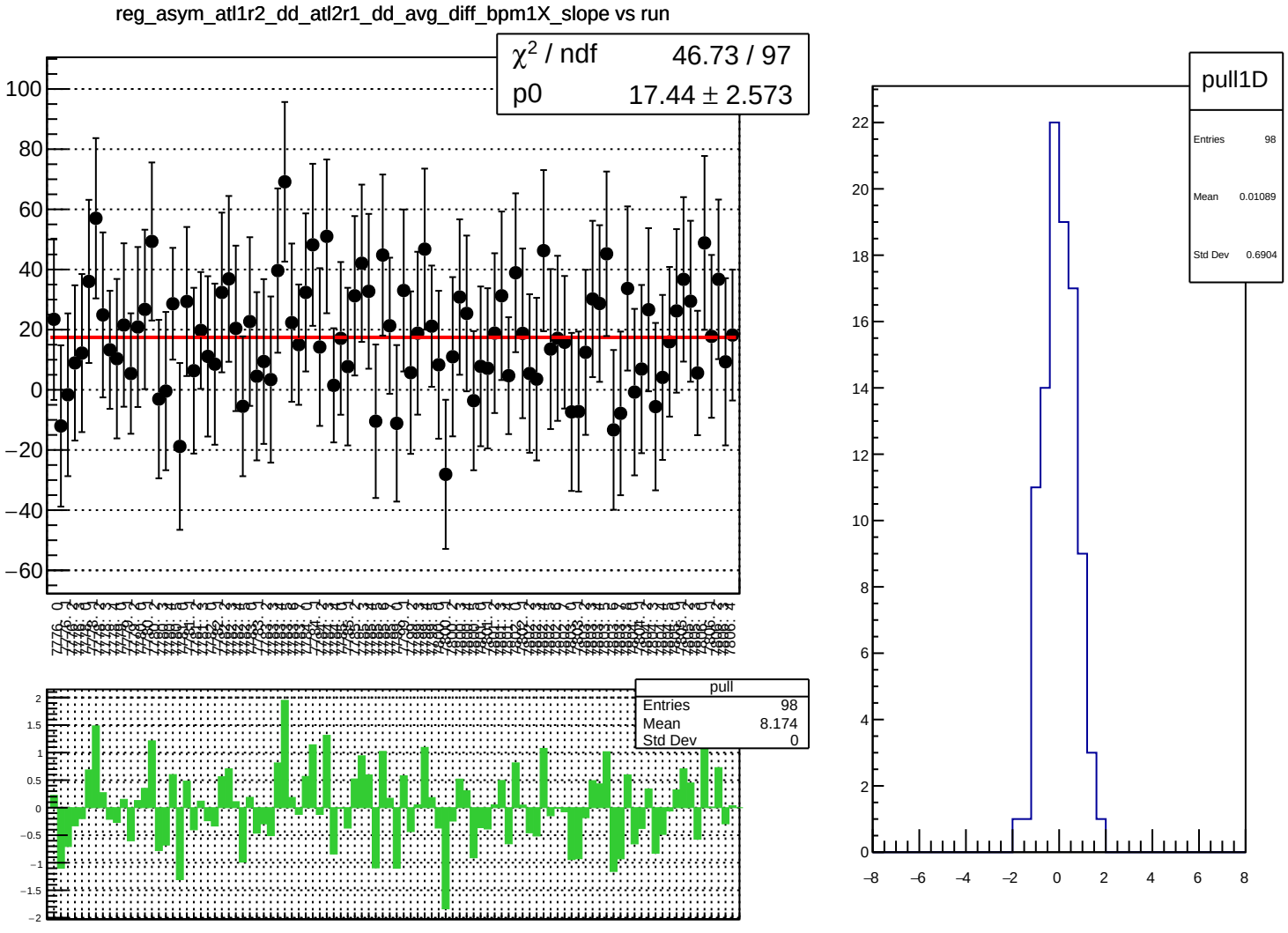
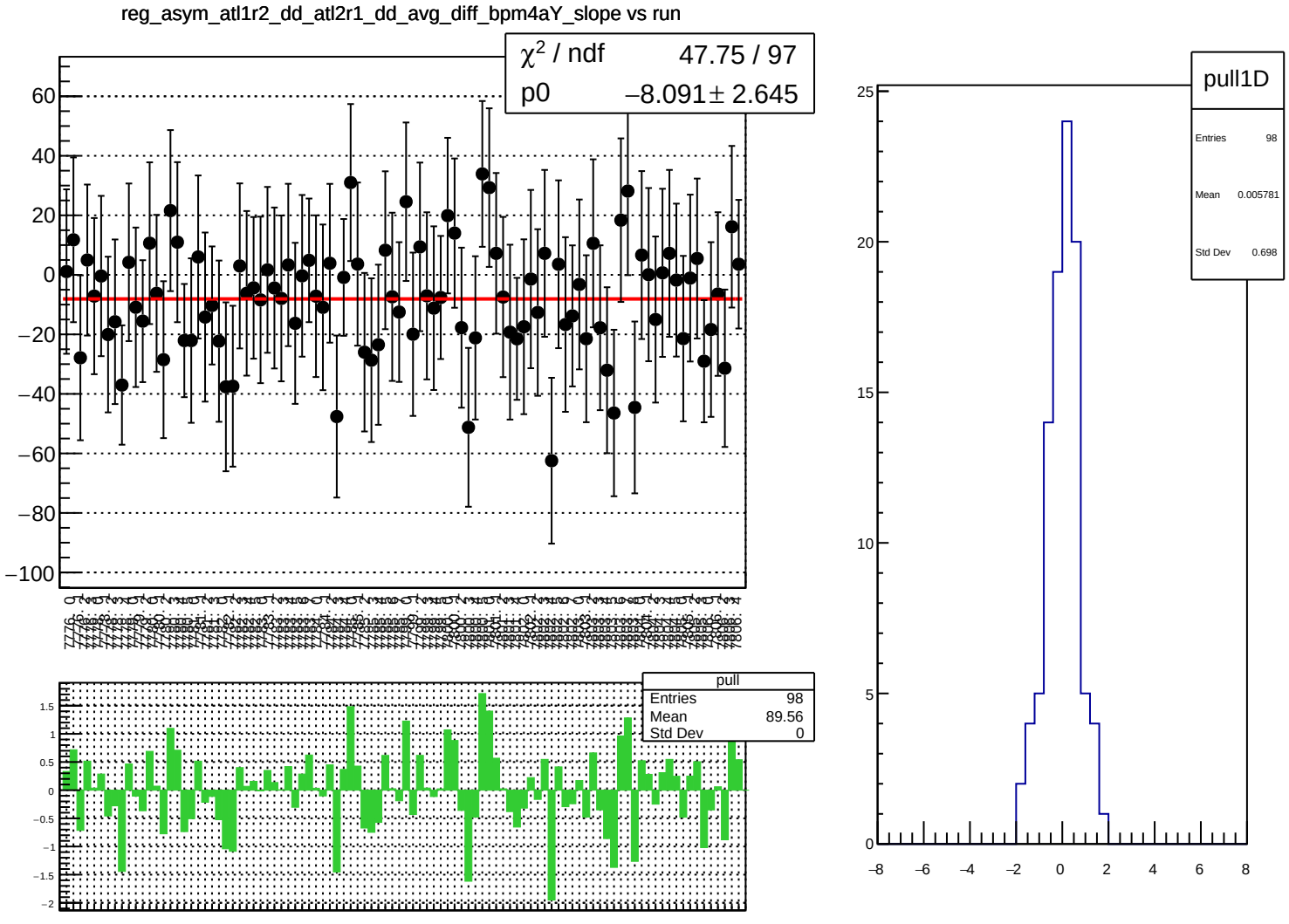
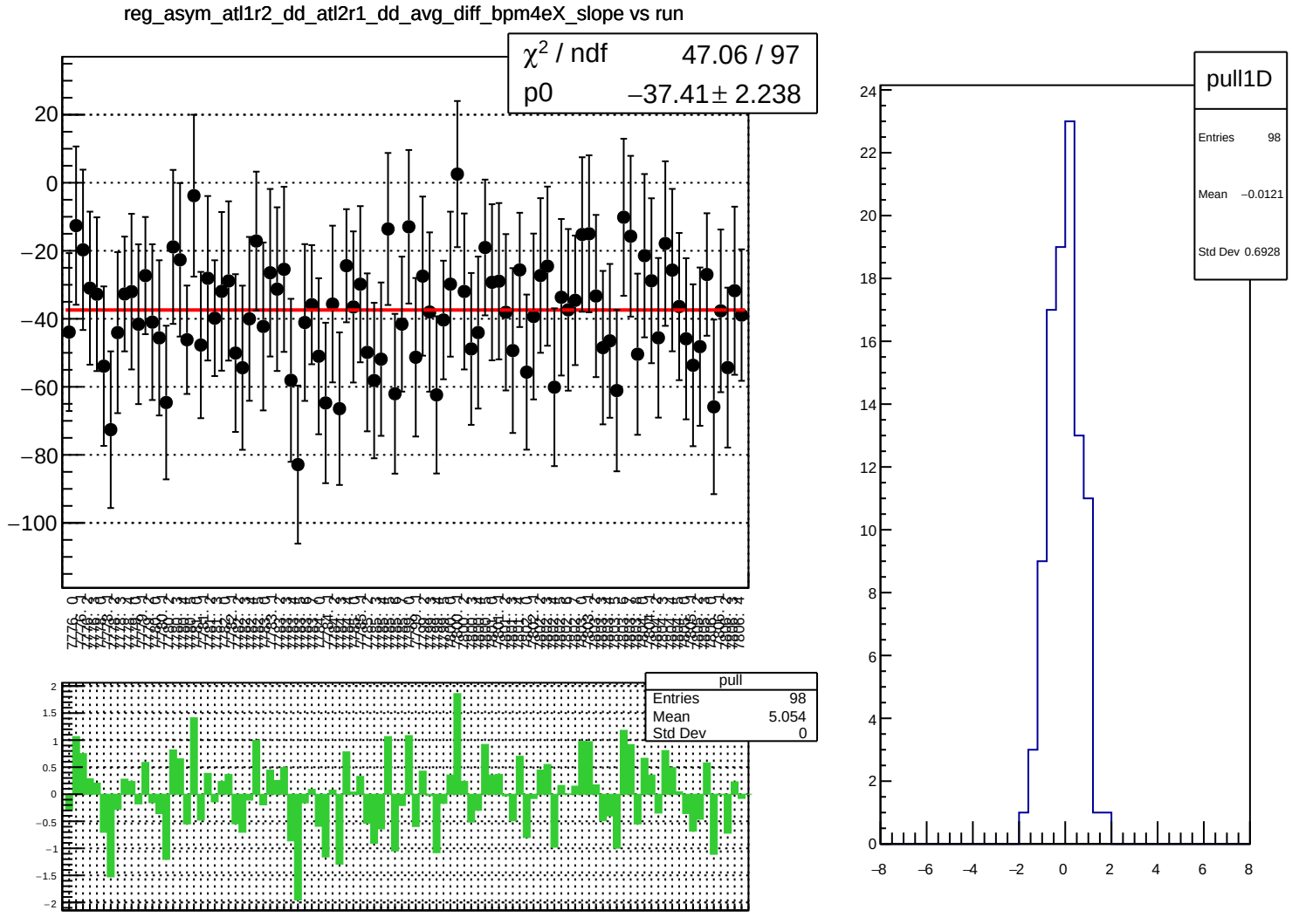
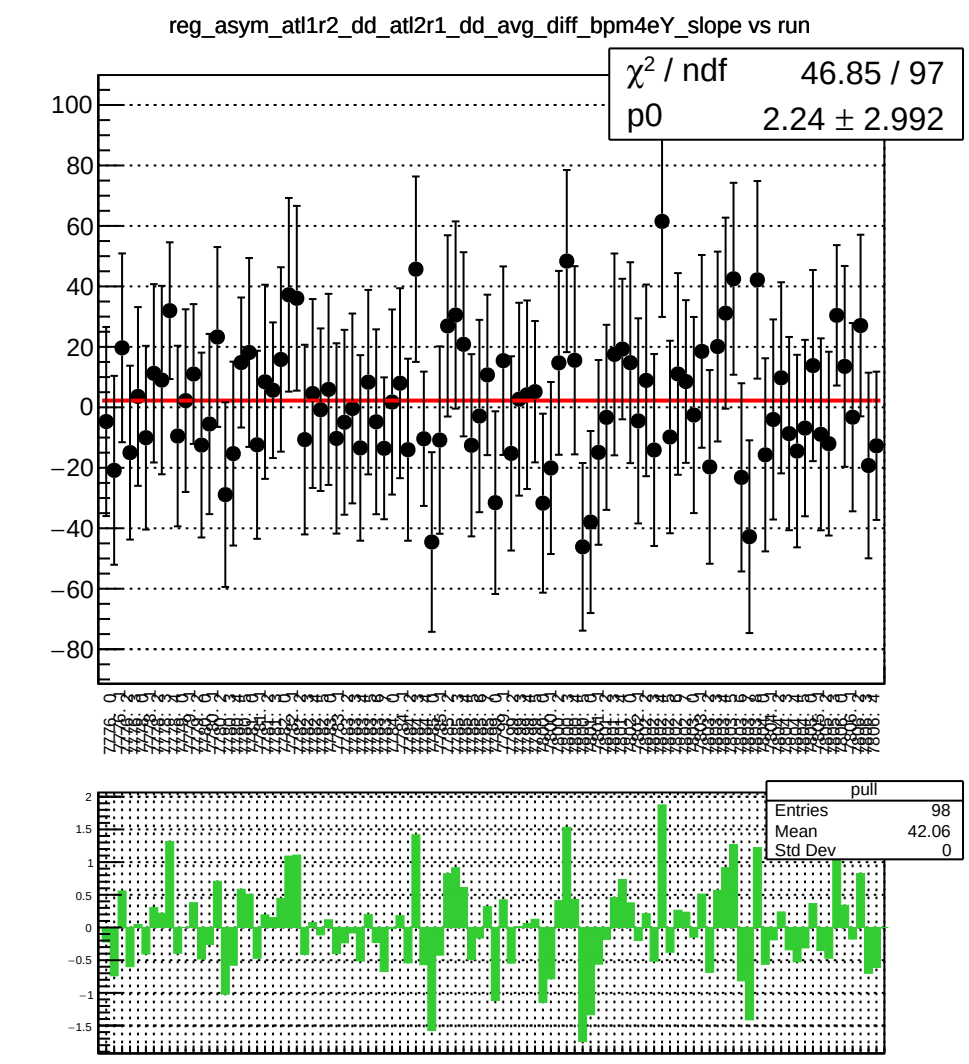
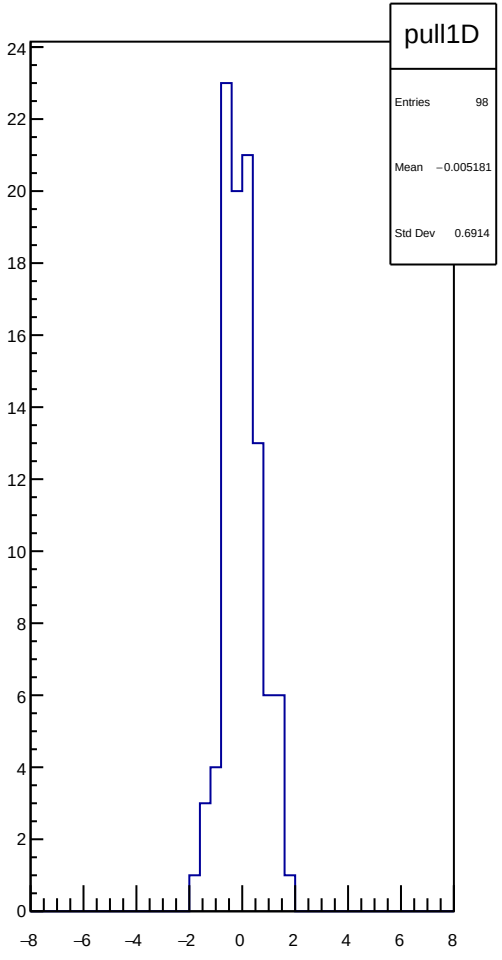
0
2
4
6
8

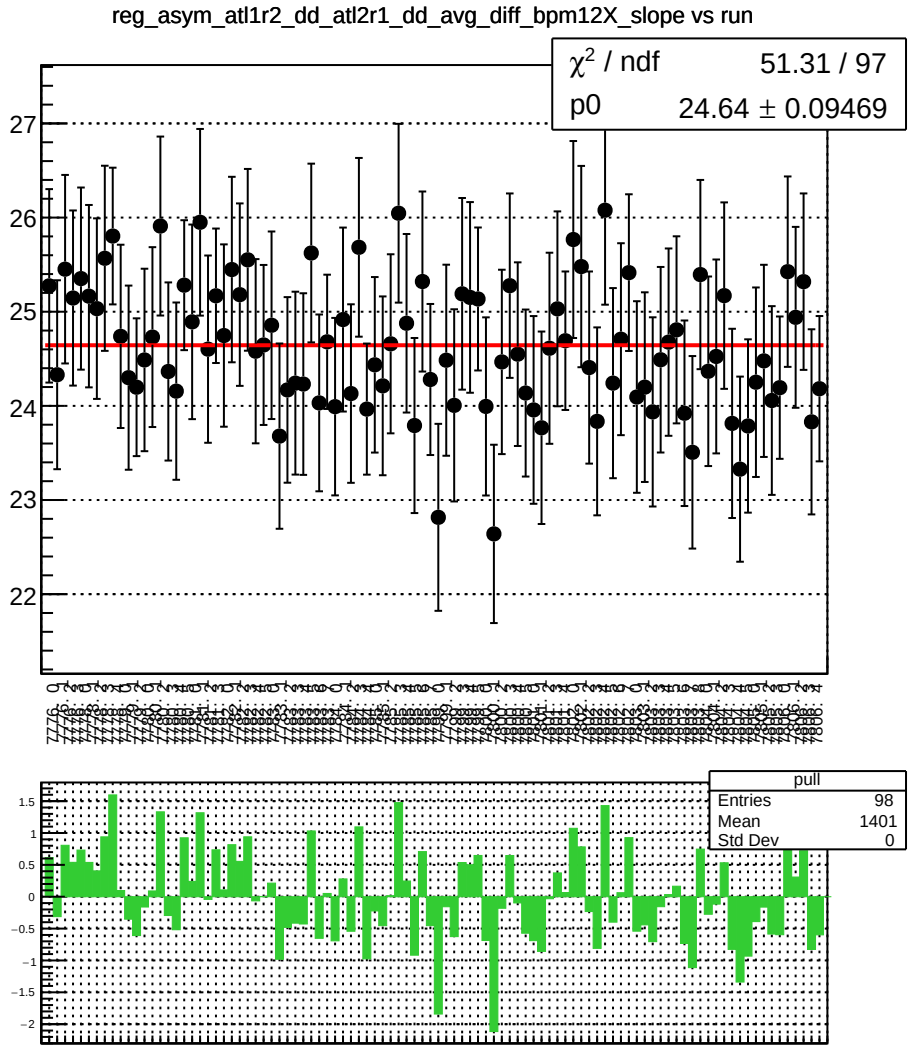

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 46.73 / 97
p0 17.44 ± 2.573
pull
Entries 98
Mean 8.174
Std Dev 0
pull1D
Entries 98
Mean 0.01089
Std Dev 0.6904

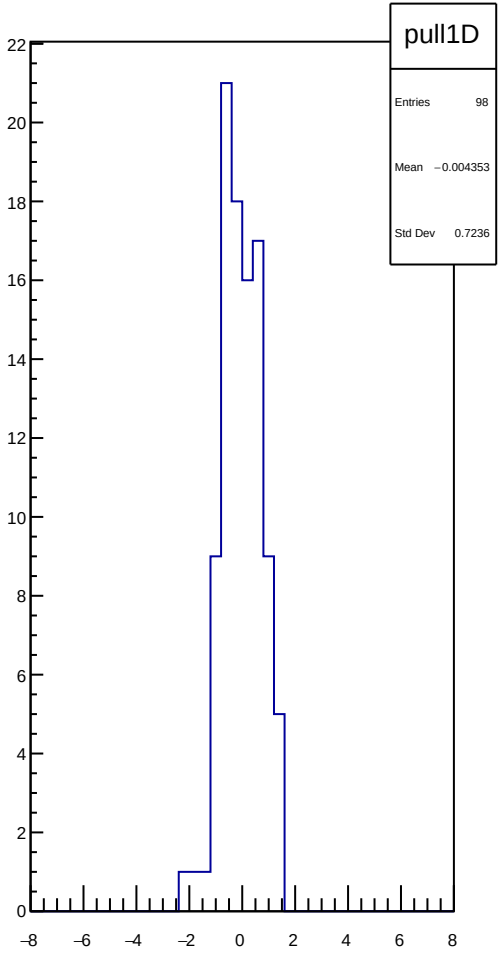

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.75 / 97
p0 −8.091 ± 2.645
pull
Entries 98
Mean 89.56
Std Dev 0
pull1D
Entries 98
Mean 0.005781
Std Dev 0.698

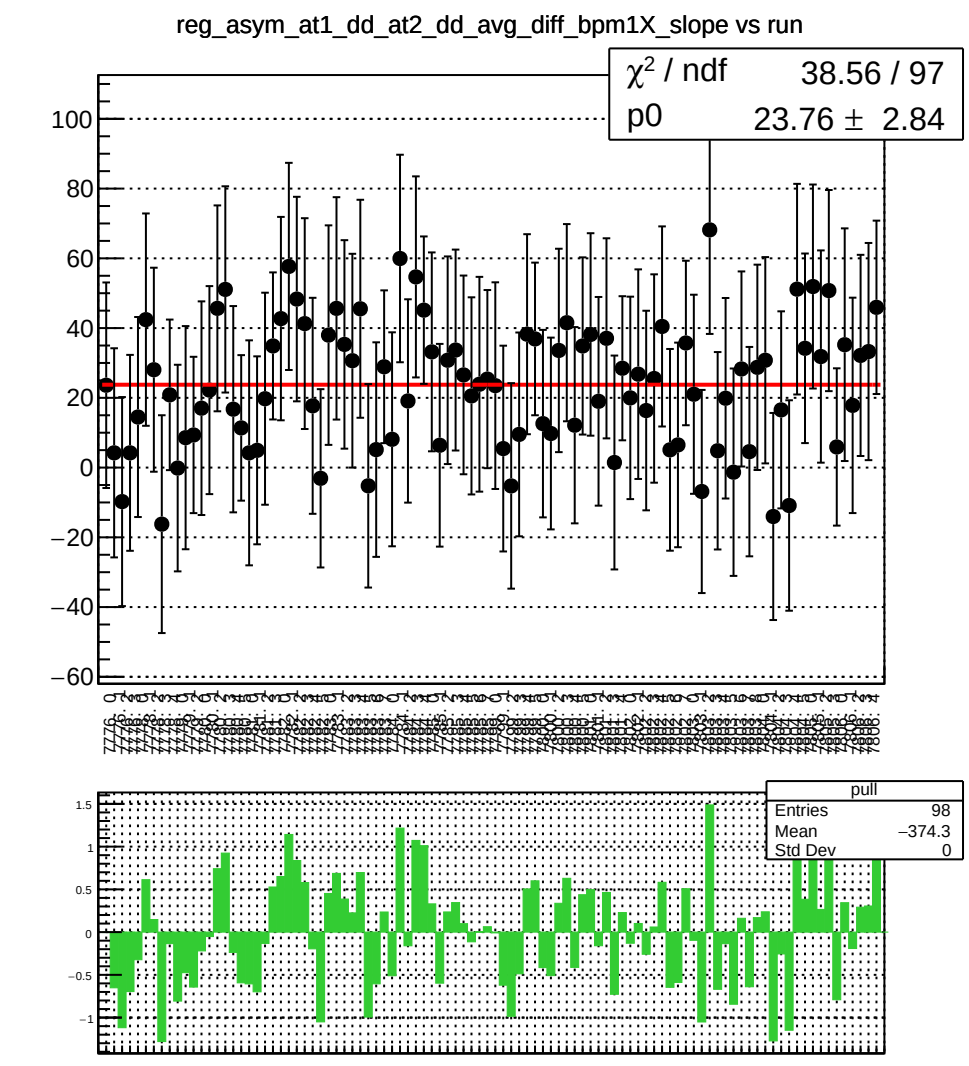

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.06 / 97
p0 −37.41± 2.238
pull
Entries 98
Mean 5.054
Std Dev 0
pull1D
Entries 98
Mean −0.0121
Std Dev 0.6928

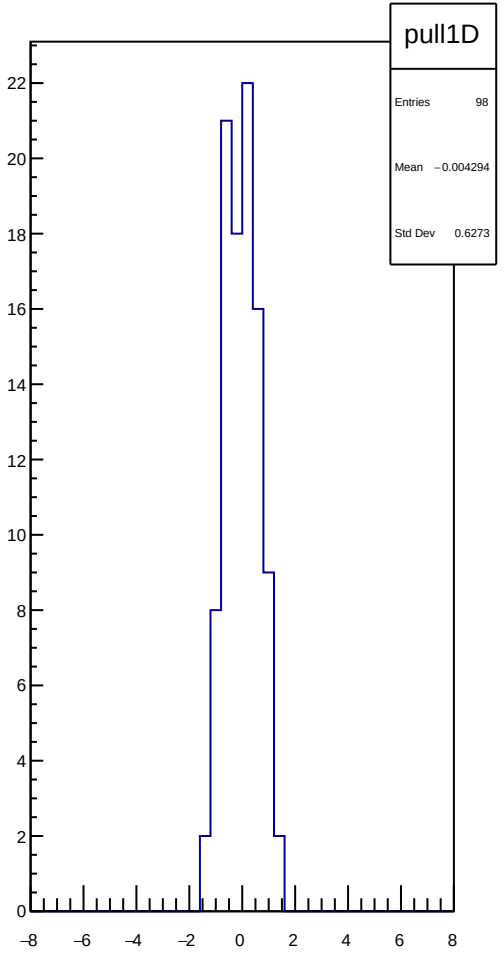

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.85 / 97
p0 2.24 ± 2.992
pull
Entries 98
Mean 42.06
Std Dev 0

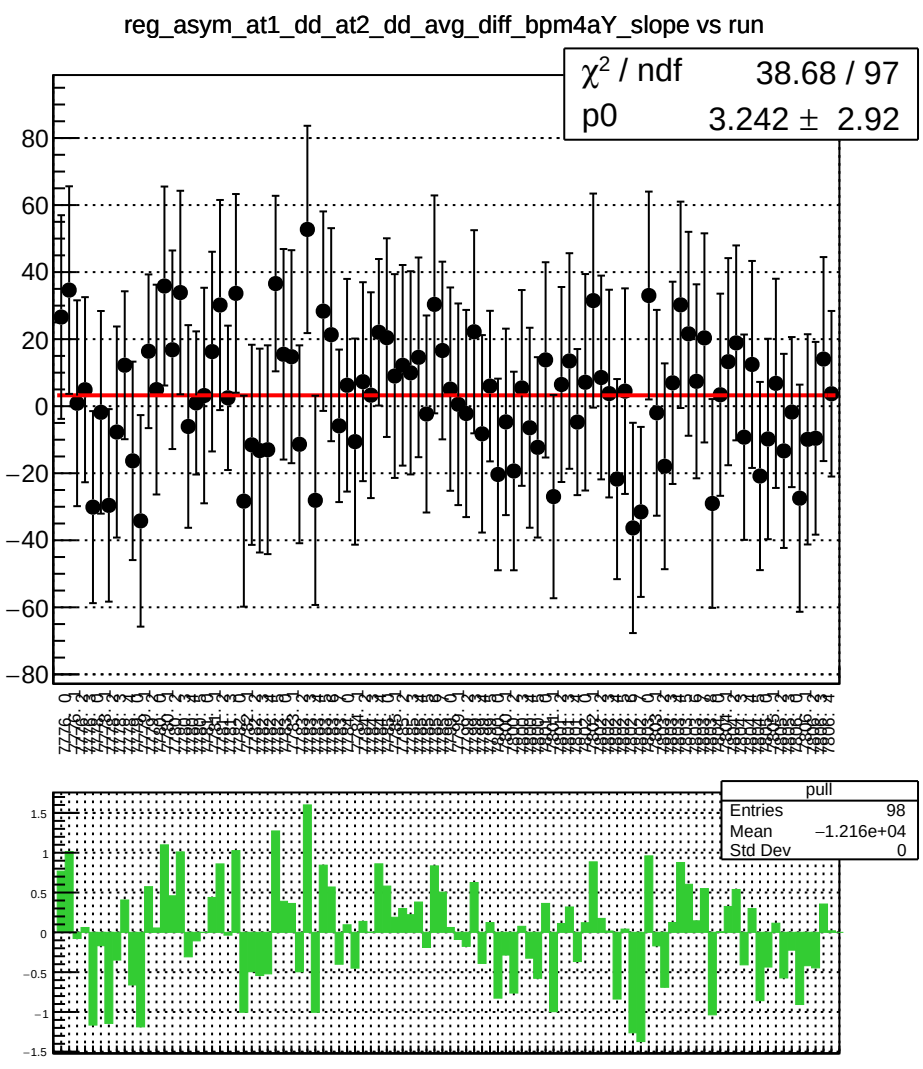

pull1D
Entries 98
Mean −0.005181
Std Dev 0.6914

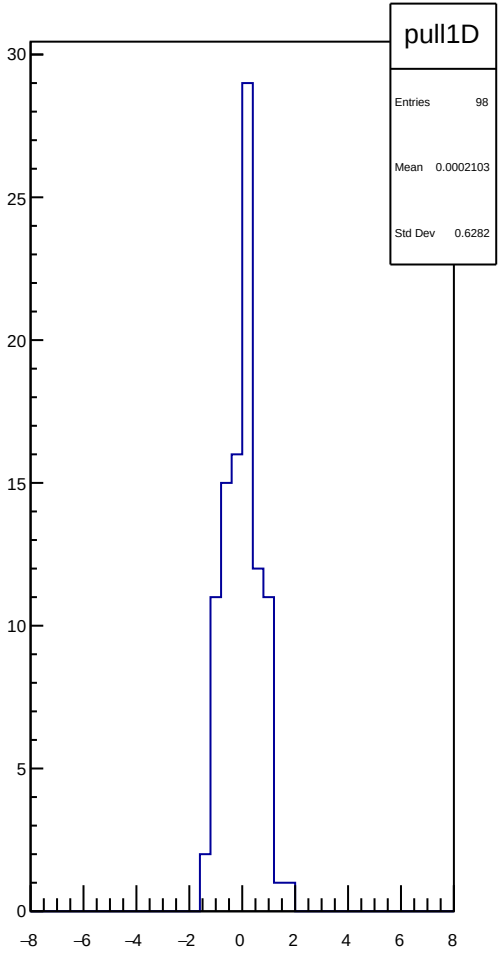

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 51.31 / 97
p0 24.64 ± 0.09469
pull
Entries 98
Mean 1401
Std Dev 0

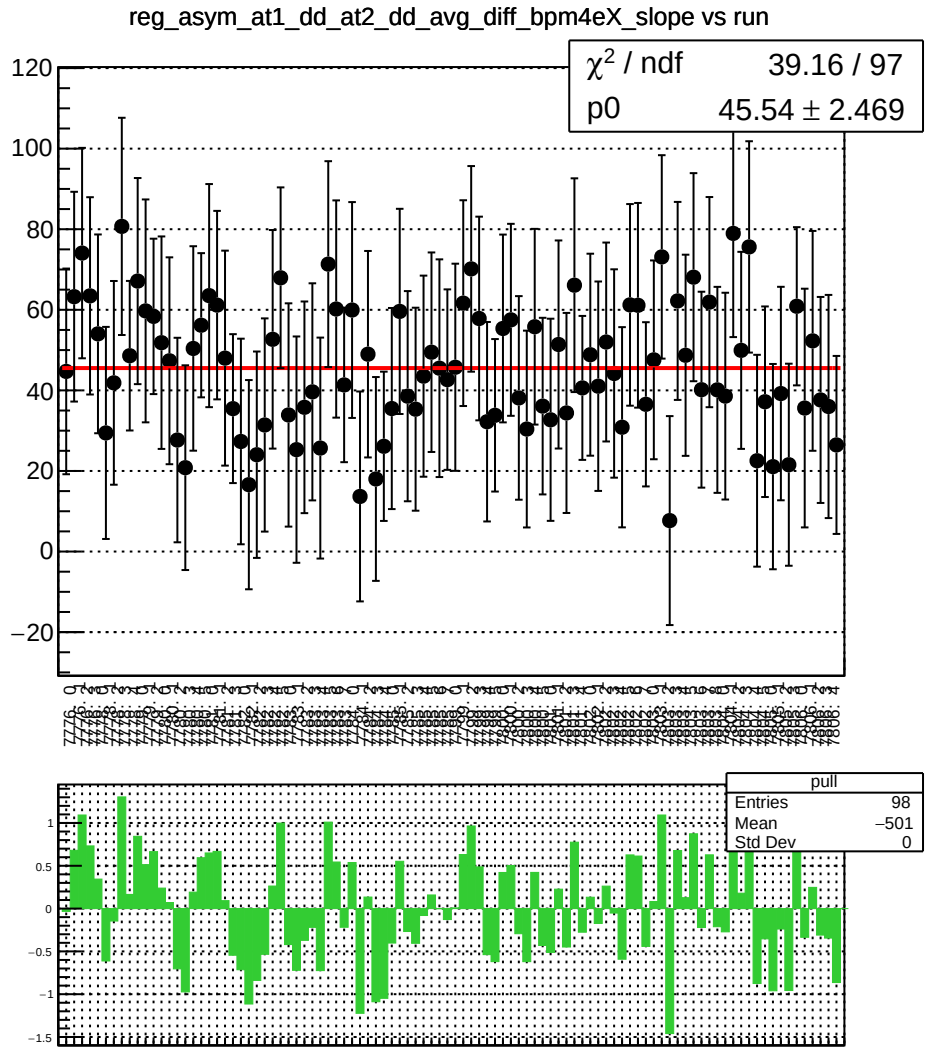

pull1D
Entries 98
Mean −0.004353
Std Dev 0.7236

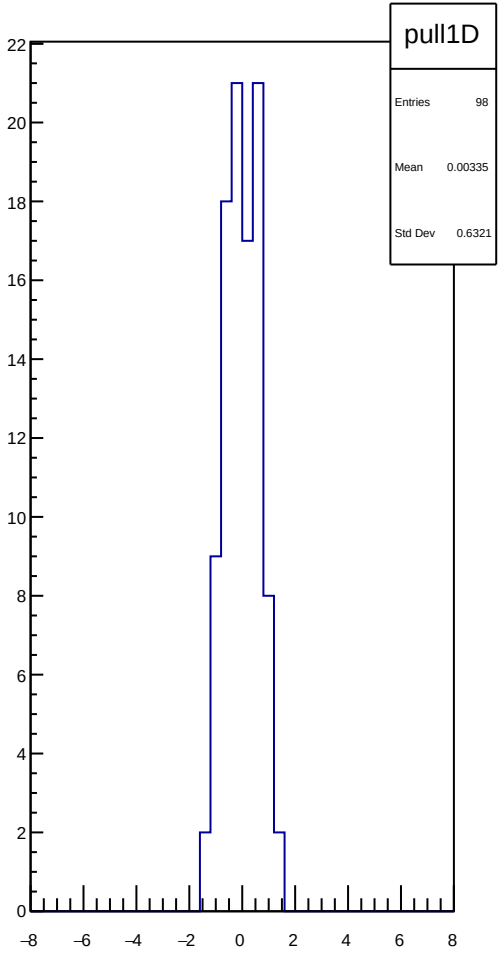

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 38.56 / 97
p0 23.76 ± 2.84
pull
Entries 98
Mean −374.3
Std Dev 0

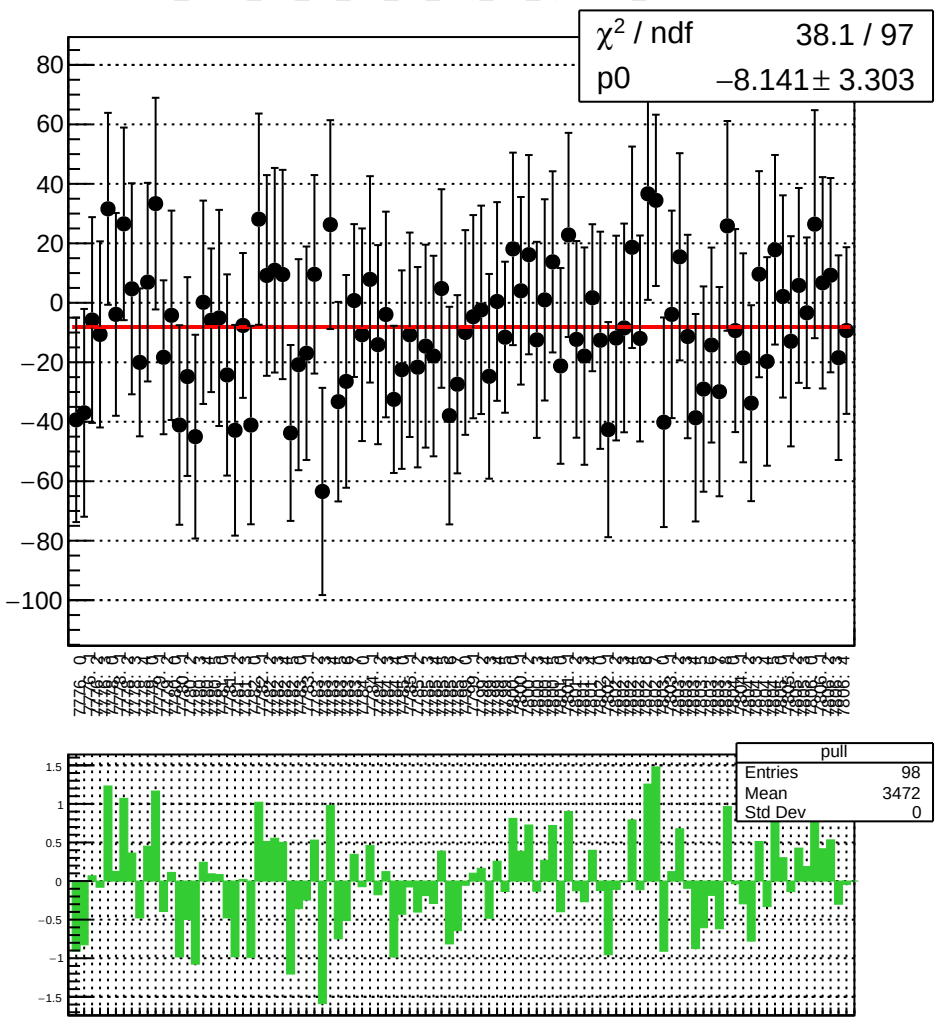

pull1D
Entries 98
Mean −0.004294
Std Dev 0.6273

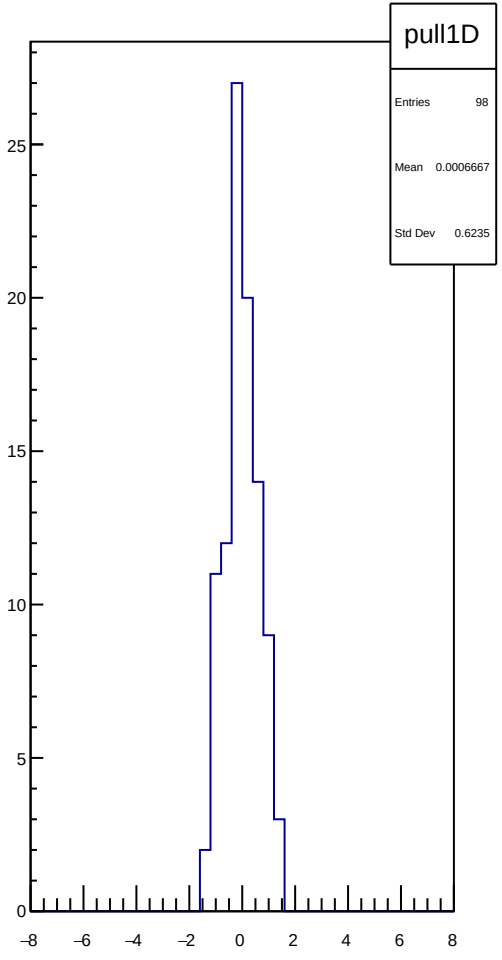

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.68 / 97
p0 3.242 ± 2.92
pull
Entries 98
Mean −1.216e+04
Std Dev 0

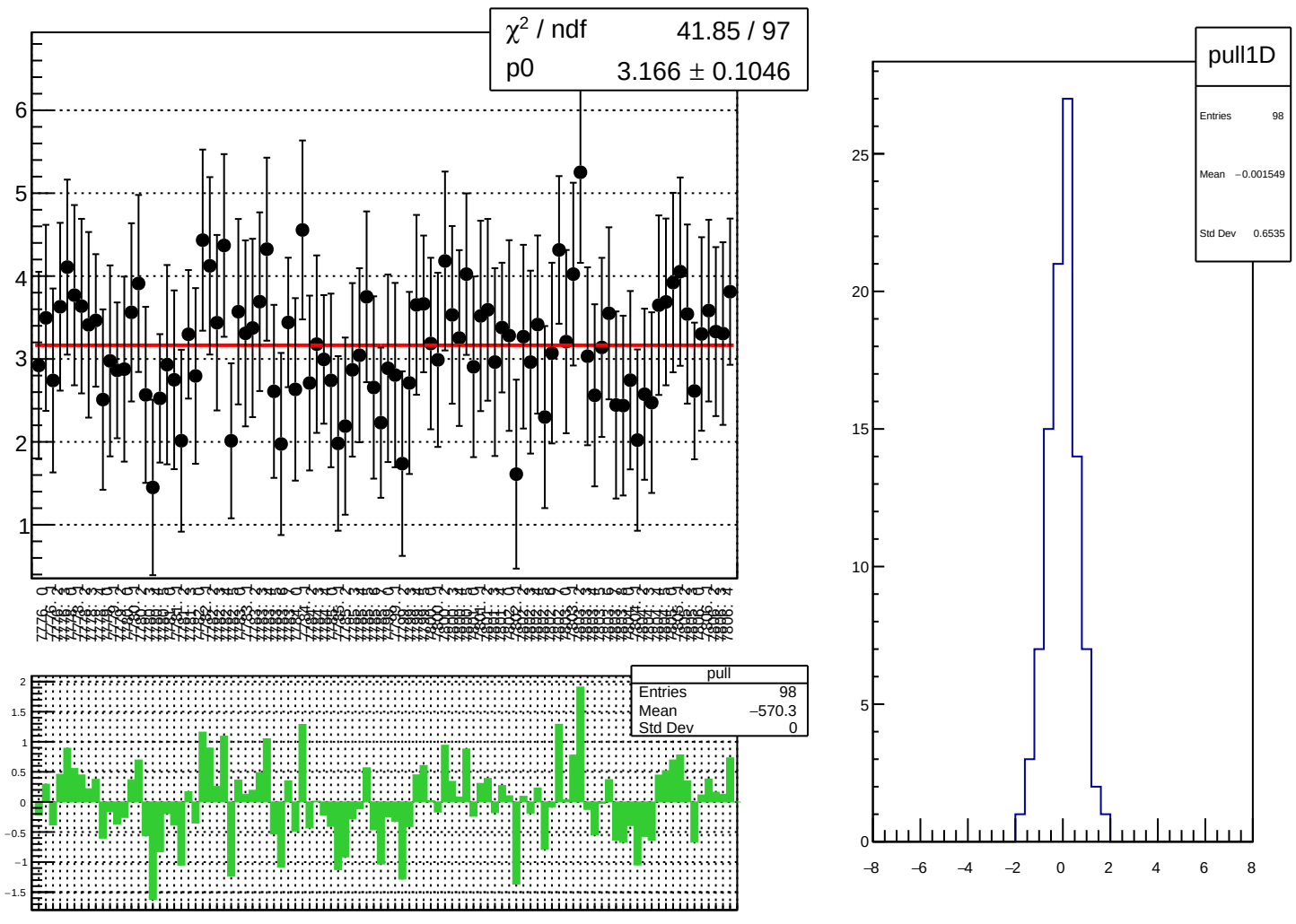

pull1D
Entries 98
Mean 0.0002103
Std Dev 0.6282

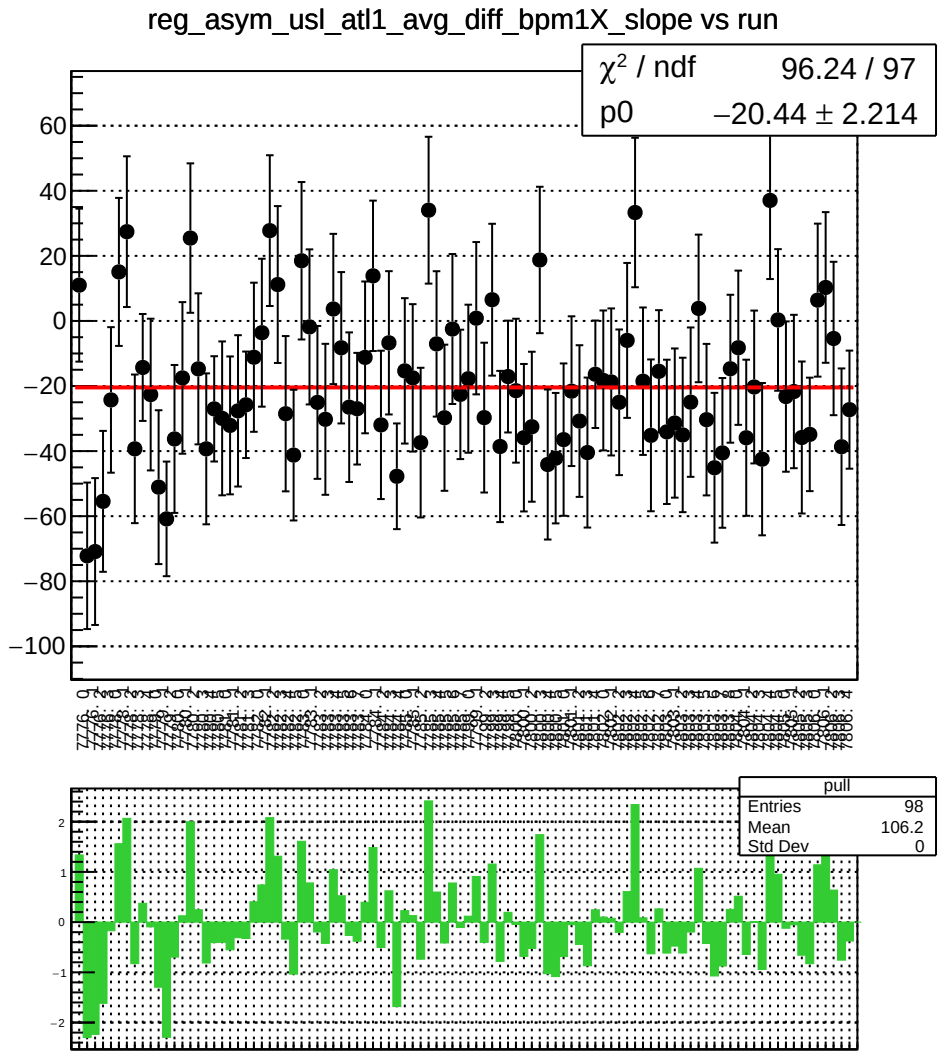

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.16 / 97
p0 45.54 ± 2.469
pull
Entries 98
Mean −501
Std Dev 0

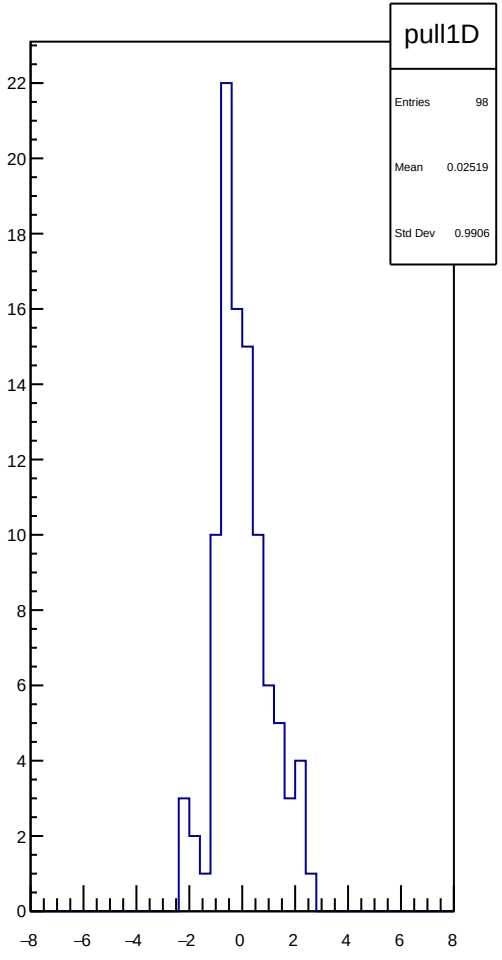

pull1D
Entries 98
Mean 0.00335
Std Dev 0.6321

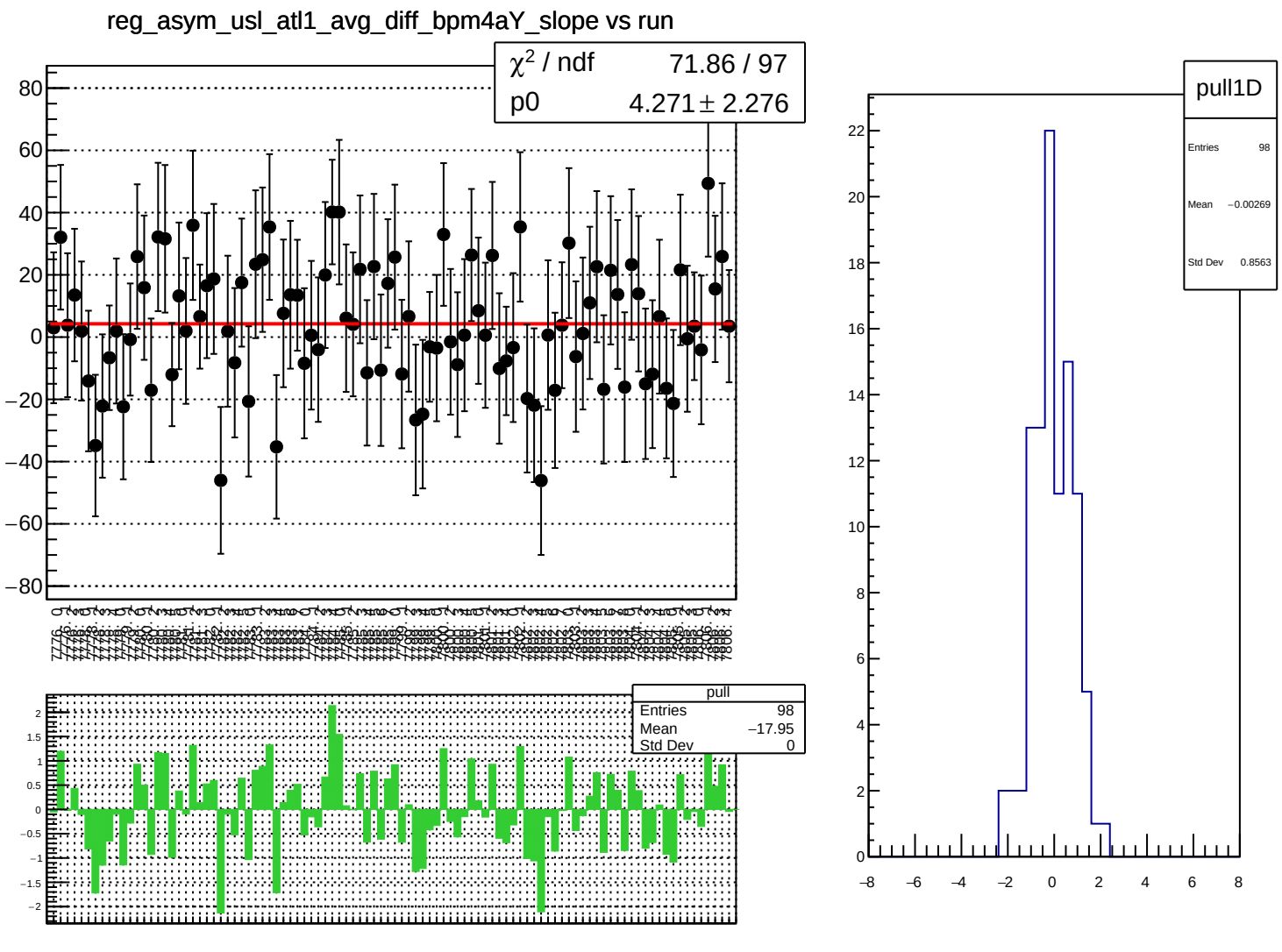

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.1 / 97
p0 −8.141 ± 3.303
pull
Entries 98
Mean 3472
Std Dev 0

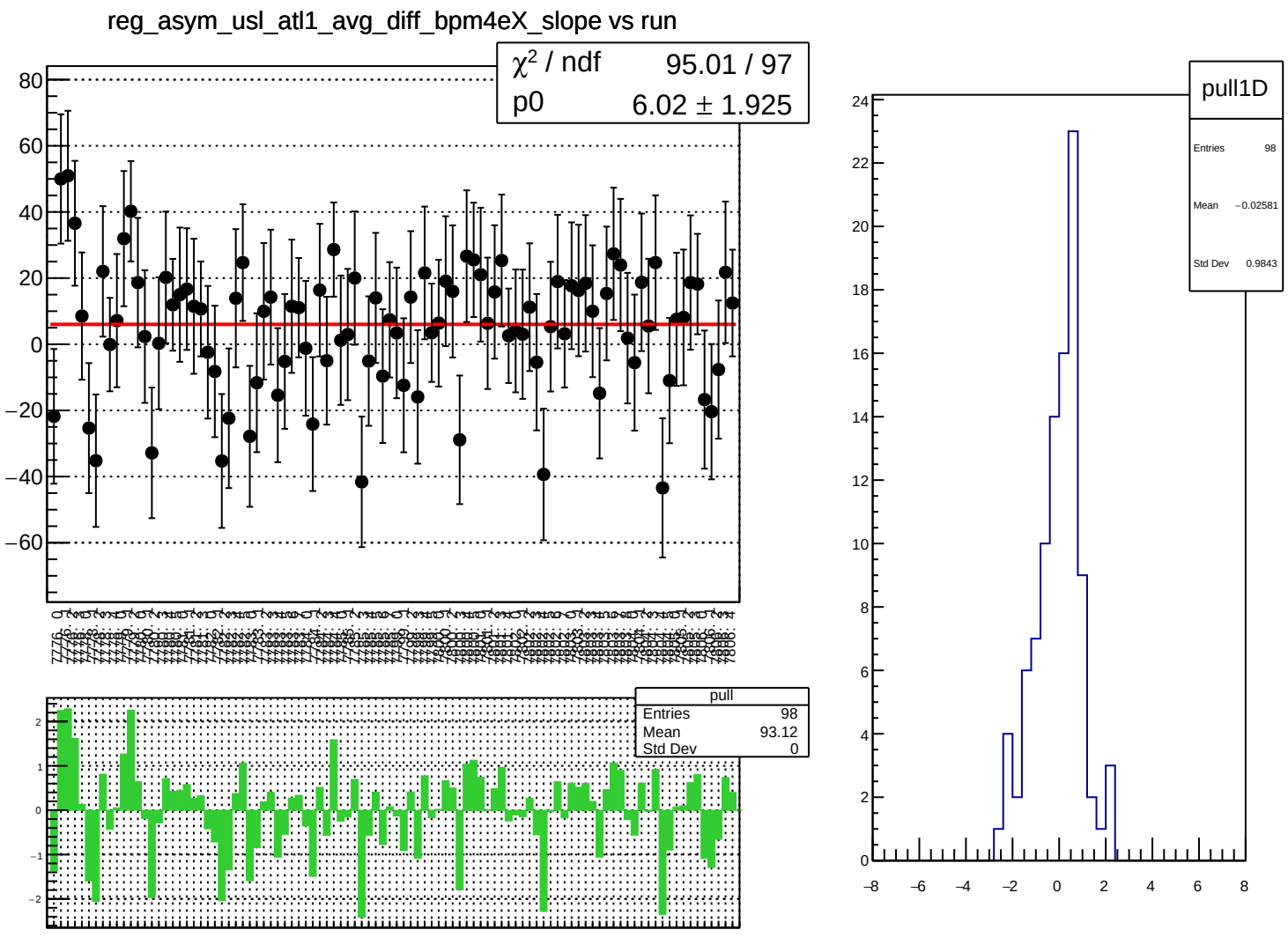

pull1D
Entries 98
Mean 0.0006667
Std Dev 0.6235

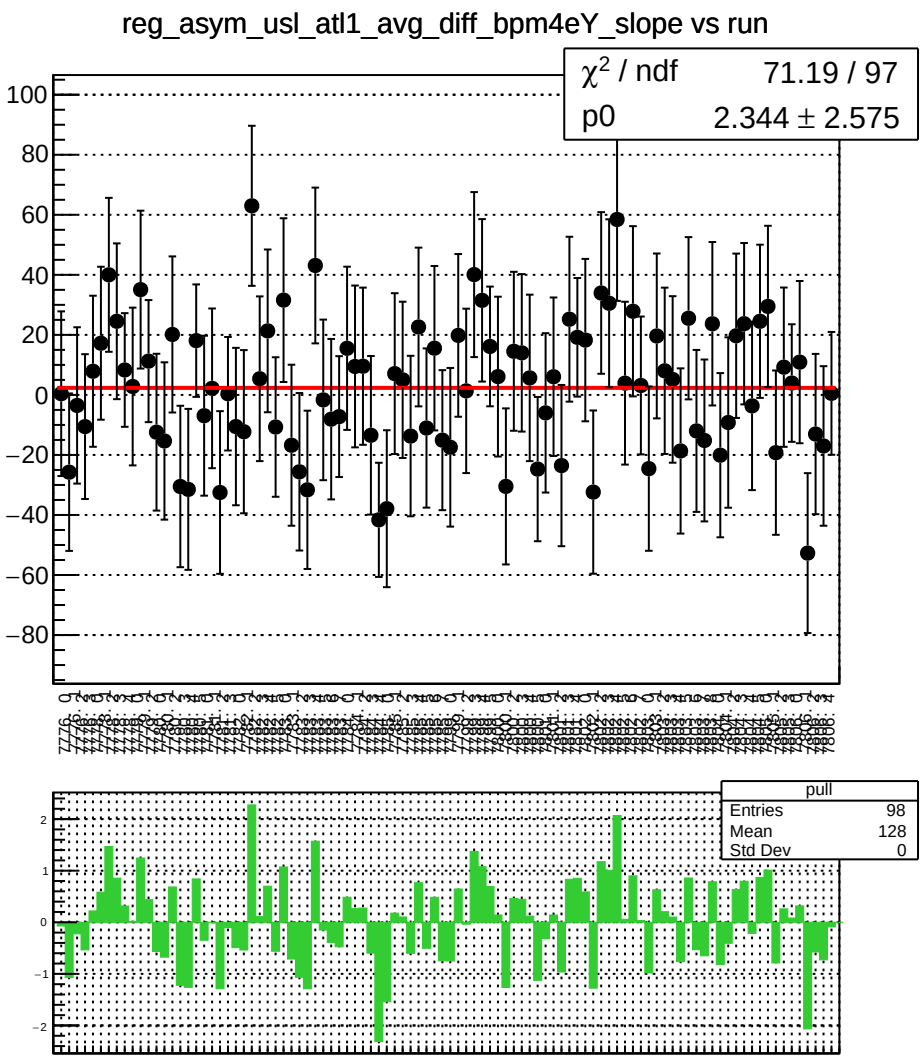

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 41.85 / 97
p0 3.166 ± 0.1046
pull
Entries 98
Mean −570.3
Std Dev 0
pull1D
Entries 98
Mean −0.001549
Std Dev 0.6535

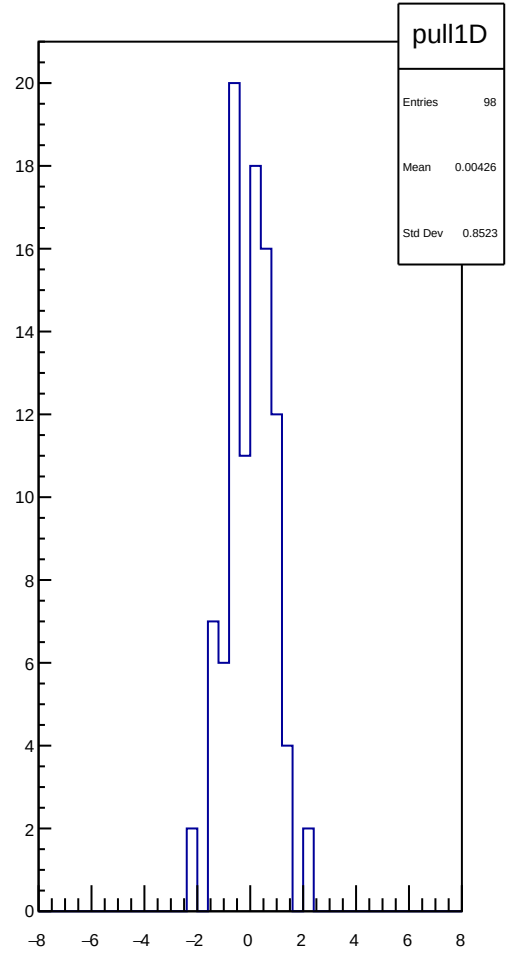

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 96.24 / 97
p0 −20.44 ± 2.214
pull
Entries 98
Mean 106.2
Std Dev 0

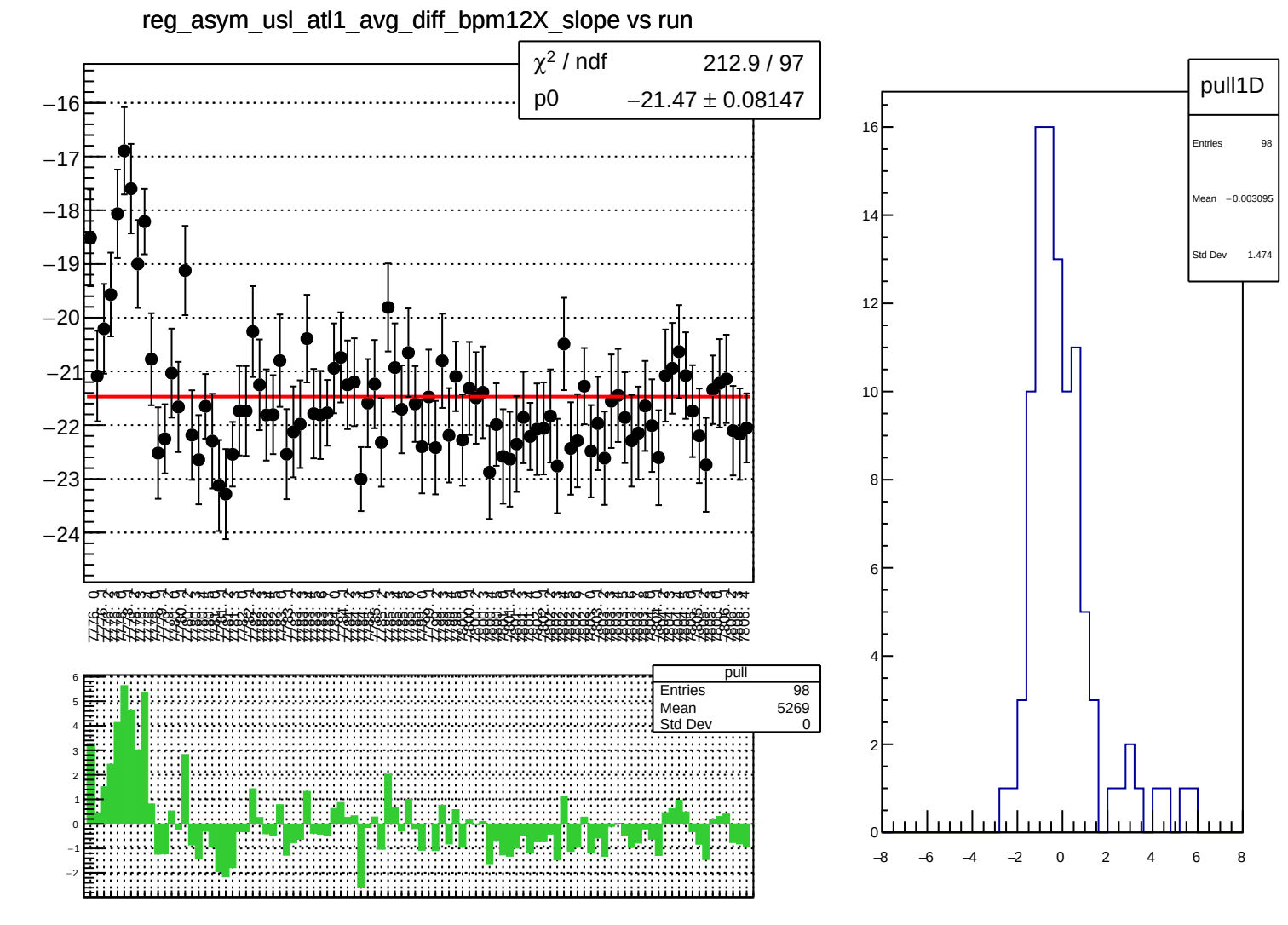

pull1D
Entries 98
Mean 0.02519
Std Dev 0.9906

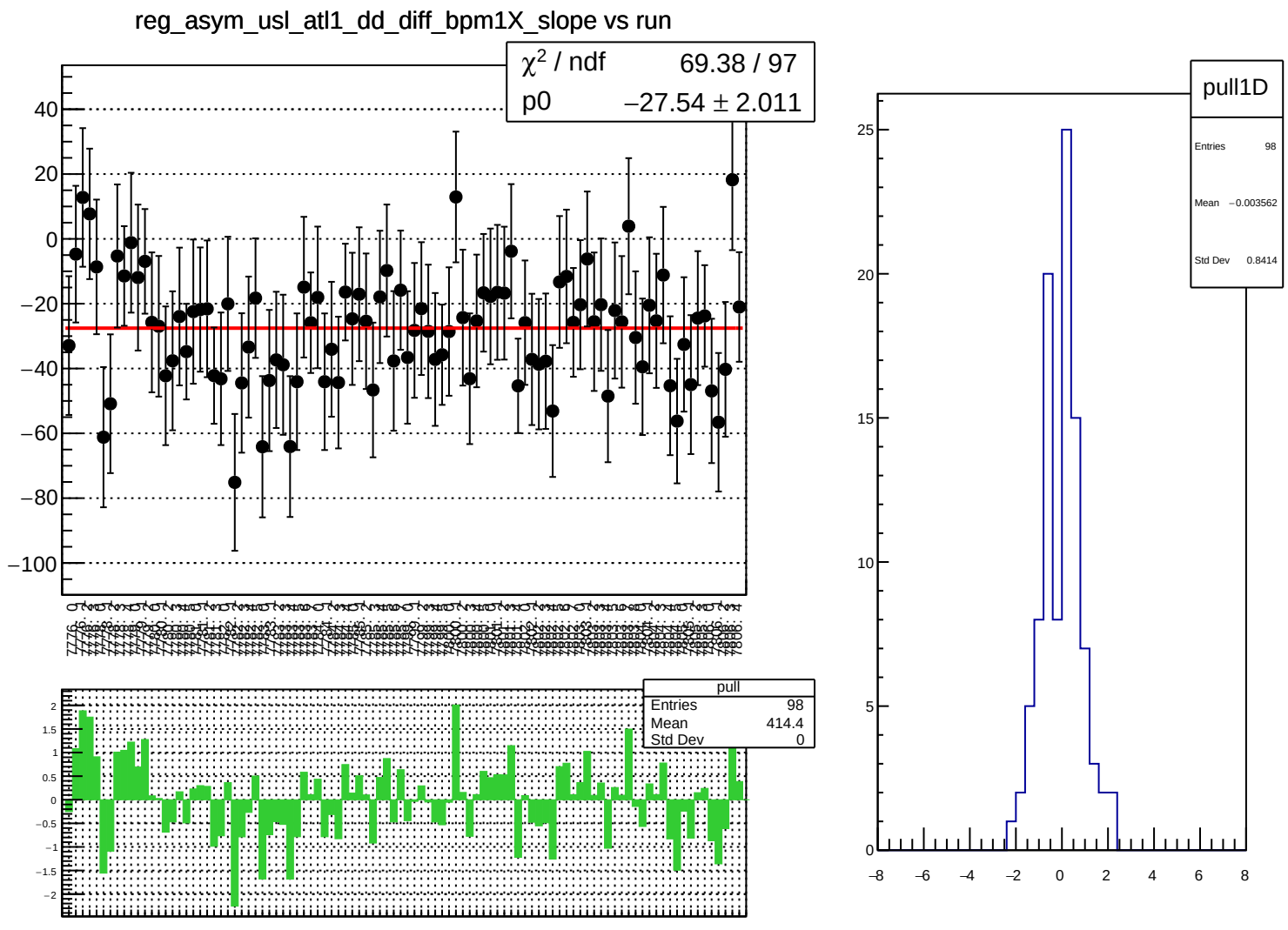

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.86 / 97
p0 4.271 ± 2.276
pull
Entries 98
Mean −17.95
Std Dev 0
pull1D
Entries 98
Mean −0.00269
Std Dev 0.8563

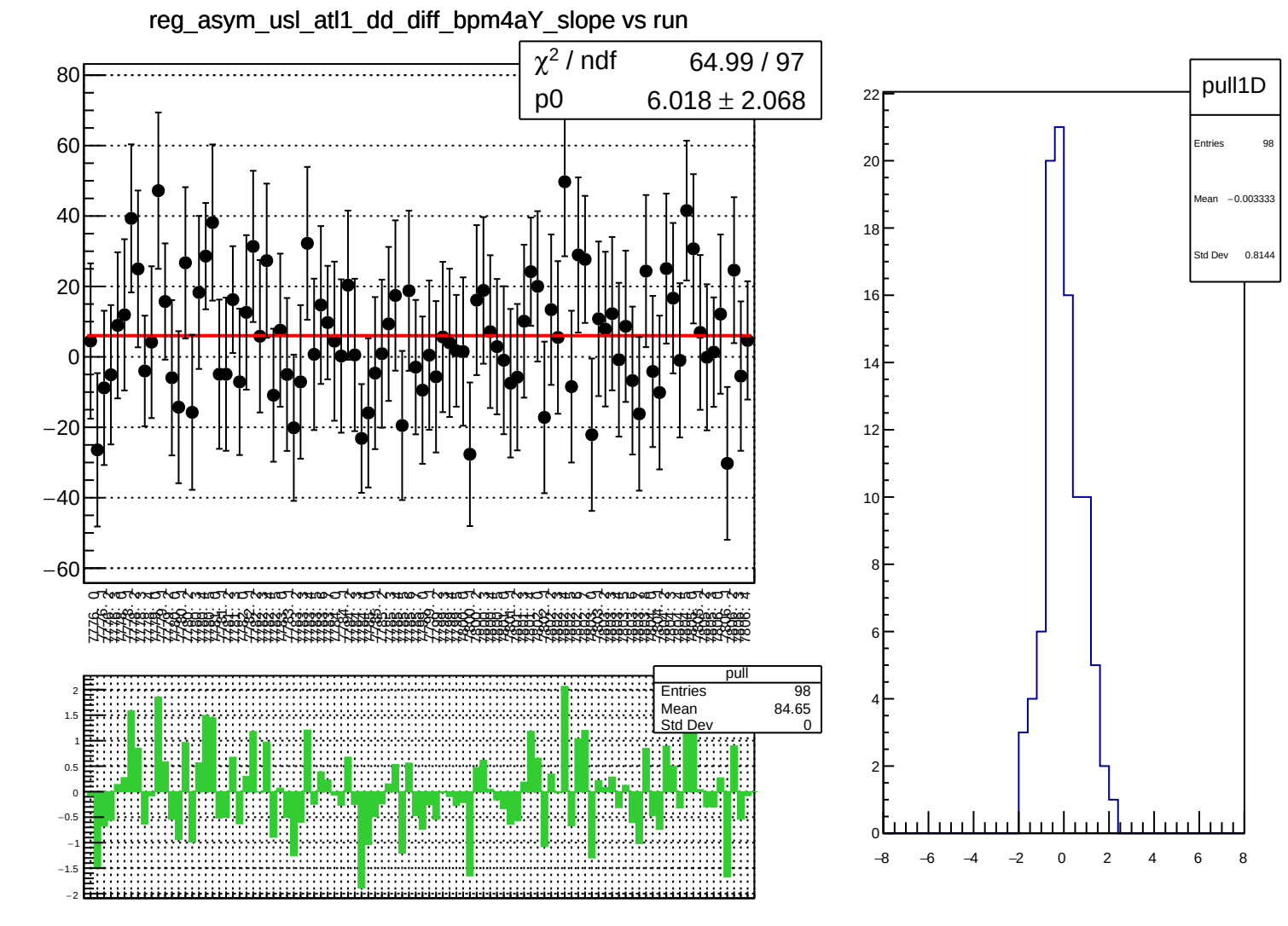

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.01 / 97
p0 6.02 ± 1.925
pull
Entries 98
Mean 93.12
Std Dev 0
pull1D
Entries 98
Mean −0.02581
Std Dev 0.9843

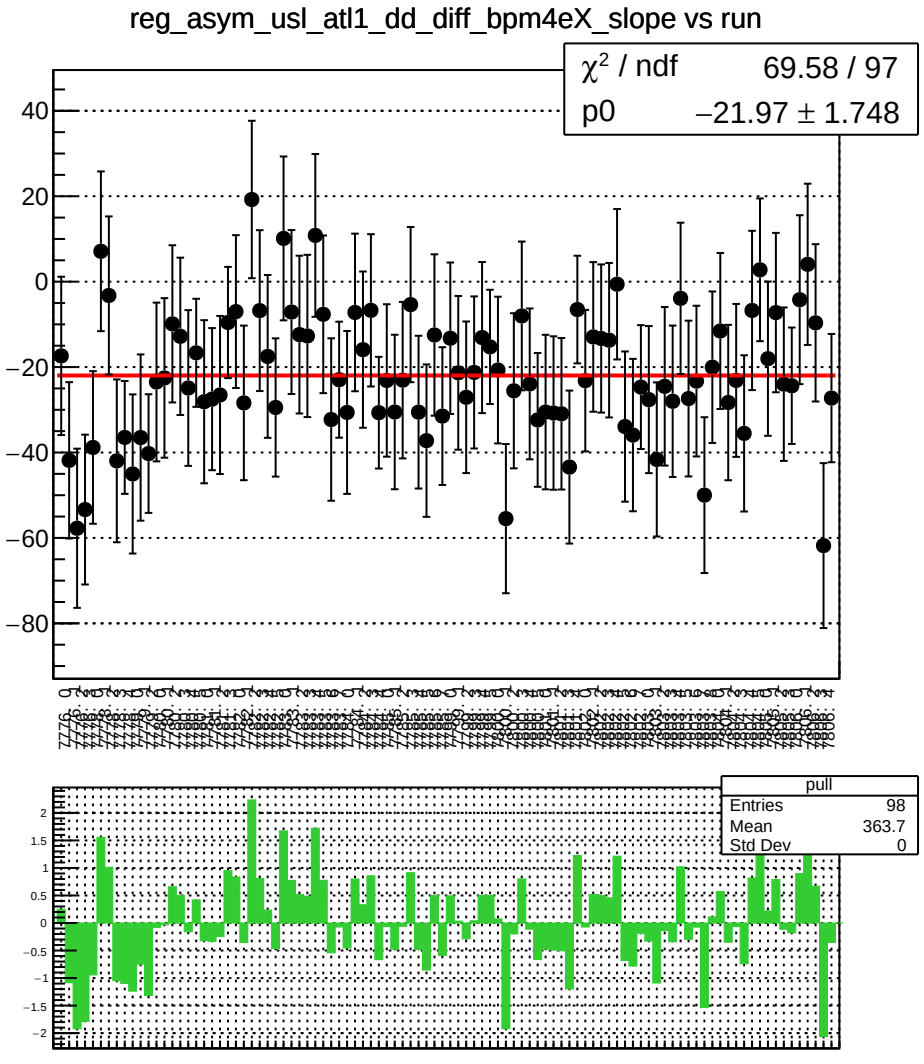

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 71.19 / 97
p0 2.344 ± 2.575
pull
Entries 98
Mean 128
Std Dev 0

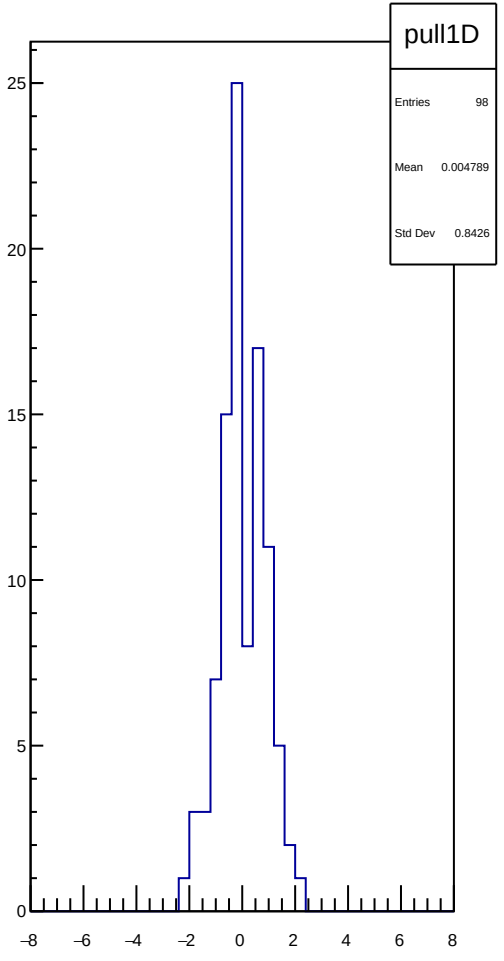

pull1D
Entries 98
Mean 0.00426
Std Dev 0.8523

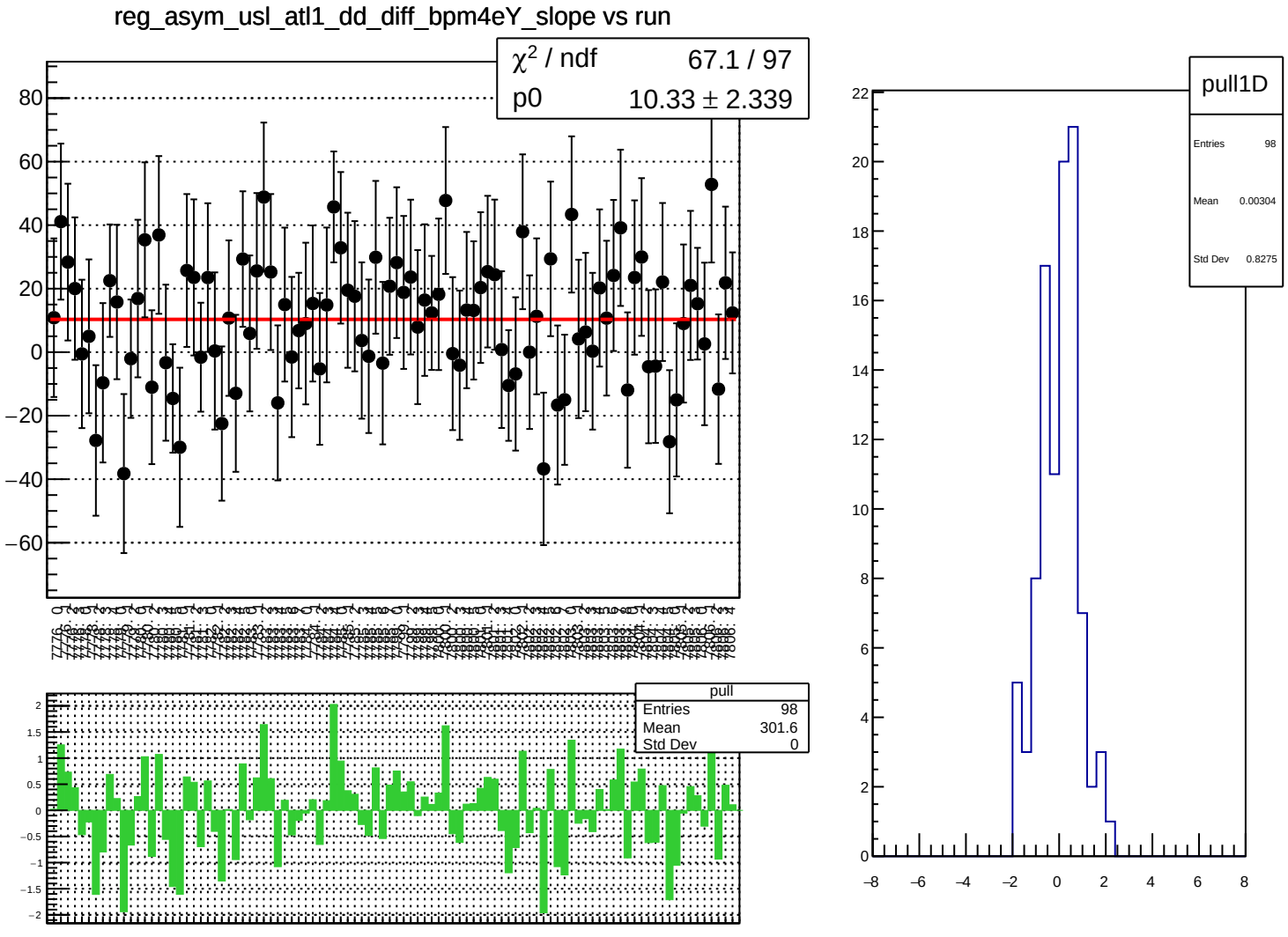

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 212.9 / 97
p0 −21.47 ± 0.08147
pull
Entries 98
Mean 5269
Std Dev 0
pull1D
Entries 98
Mean −0.003095
Std Dev 1.474

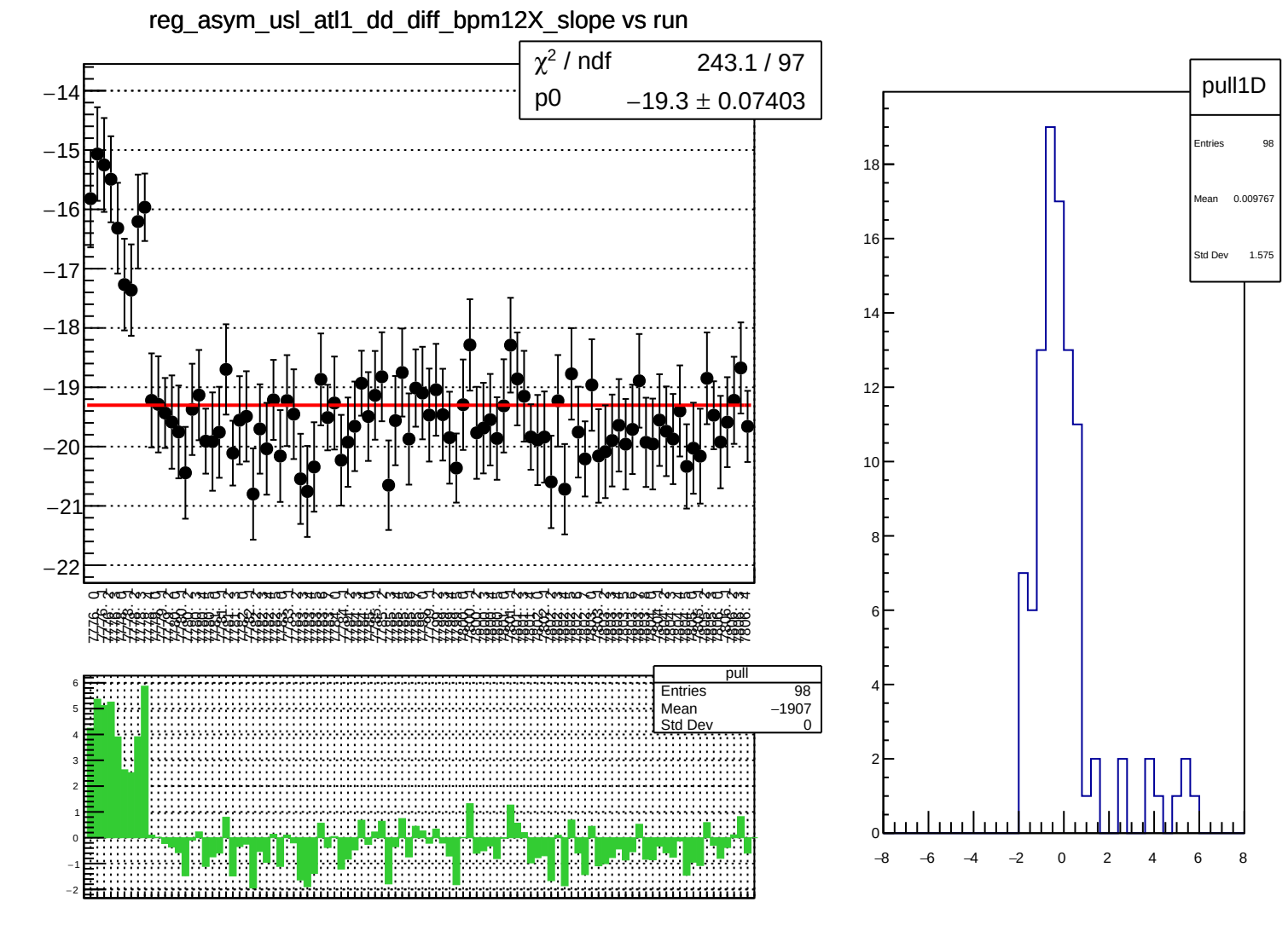

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 69.38 / 97
p0 −27.54 ± 2.011
pull
Entries 98
Mean 414.4
Std Dev 0
pull1D
Entries 98
Mean −0.003562
Std Dev 0.8414

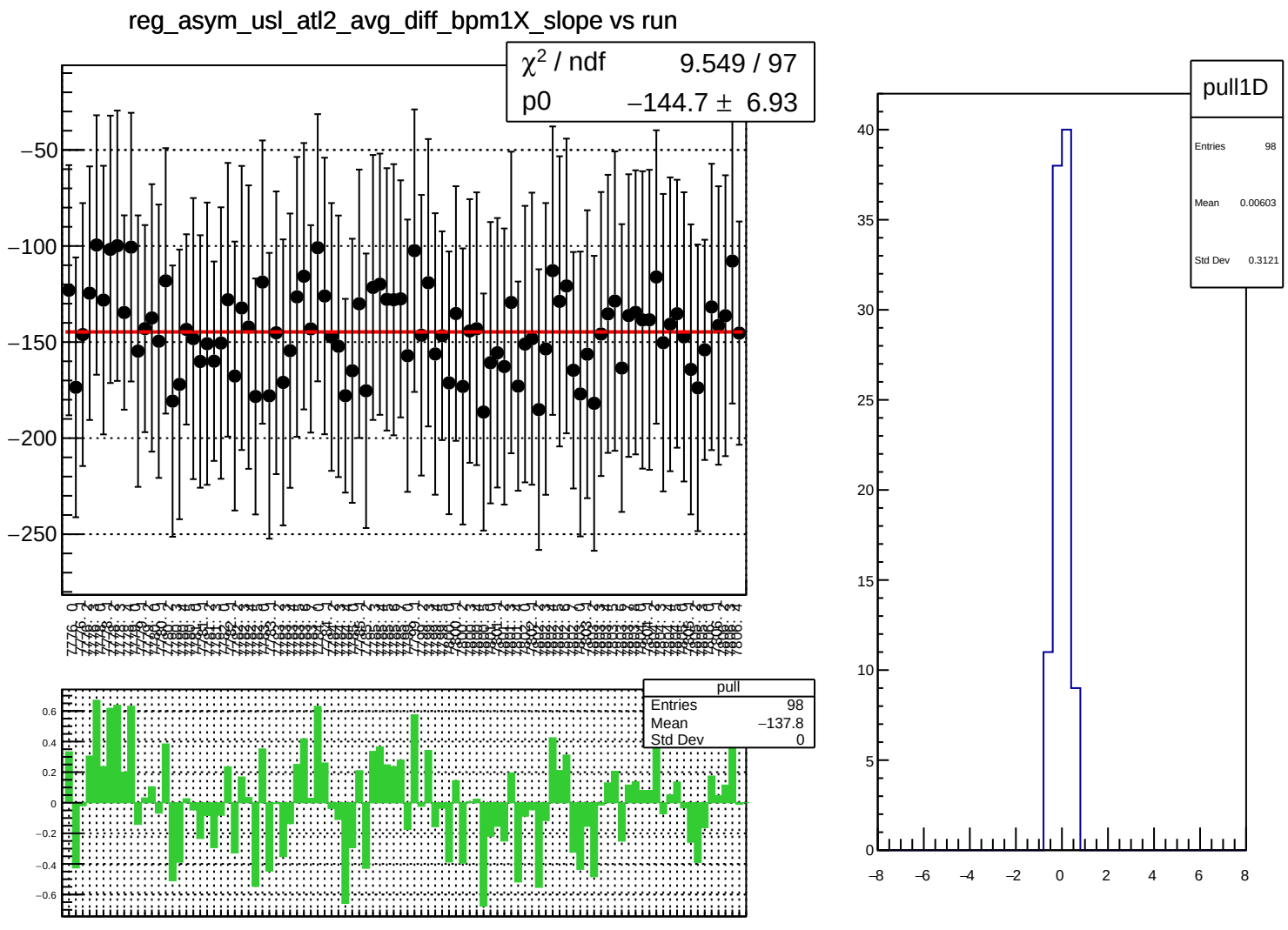

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.99 / 97
p0 6.018 ± 2.068
pull
Entries 98
Mean 84.65
Std Dev 0
pull1D
Entries 98
Mean −0.003333
Std Dev 0.8144

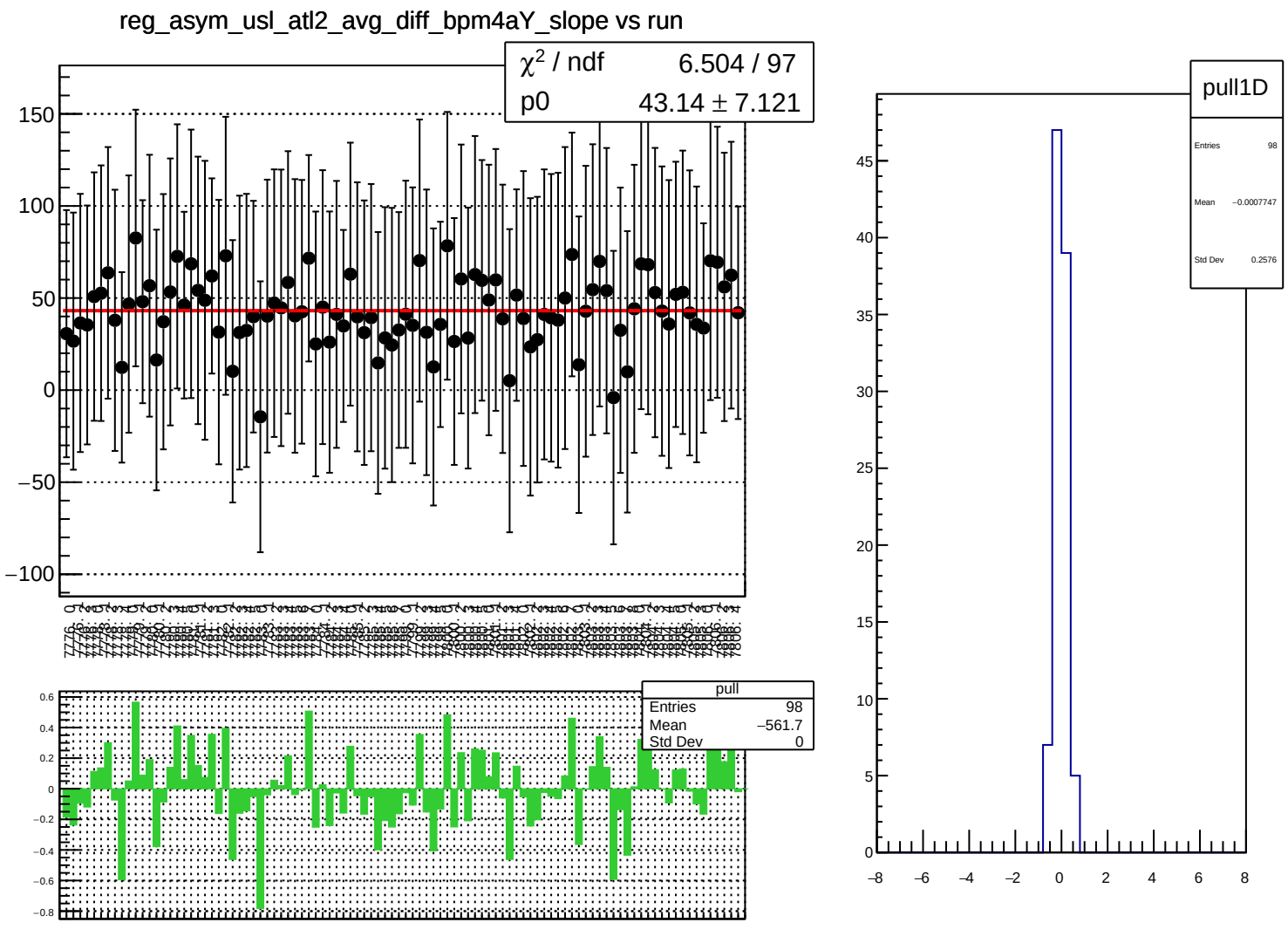

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.58 / 97
p0 −21.97 ± 1.748
pull
Entries 98
Mean 363.7
Std Dev 0

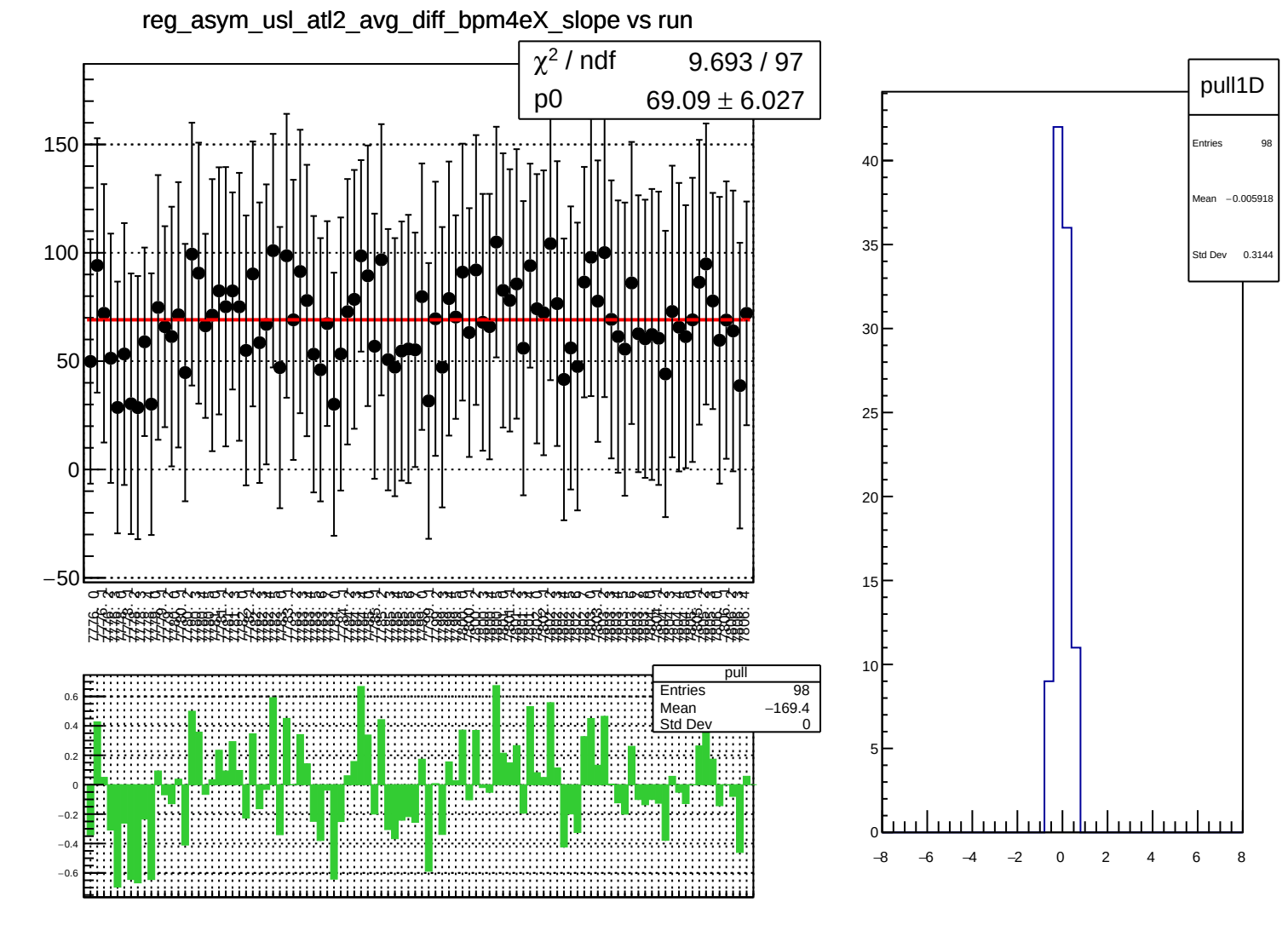

pull1D
Entries 98
Mean 0.004789
Std Dev 0.8426

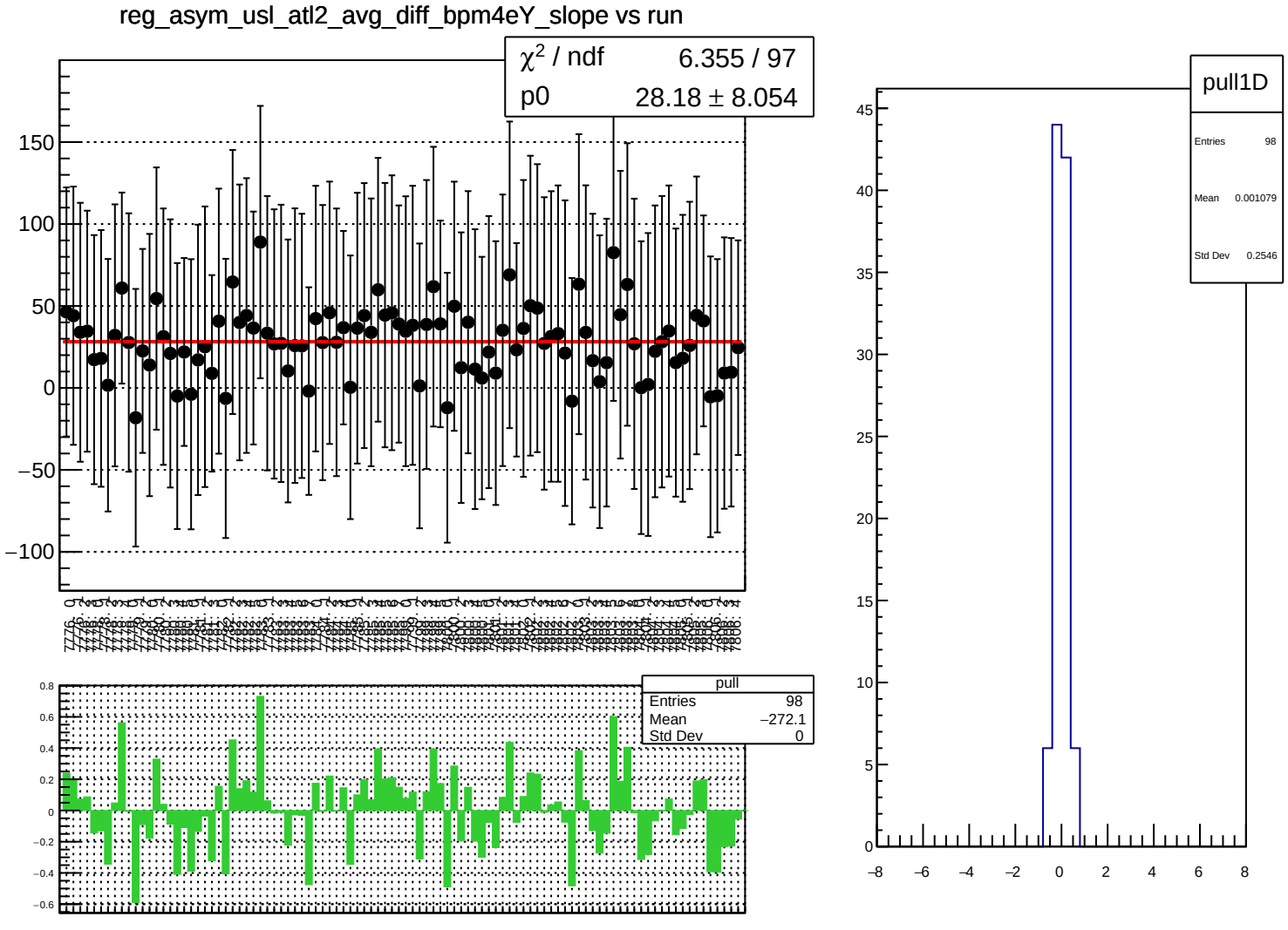

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.1 / 97
p0 10.33 ± 2.339
pull
Entries 98
Mean 301.6
Std Dev 0
pull1D
Entries 98
Mean 0.00304
Std Dev 0.8275

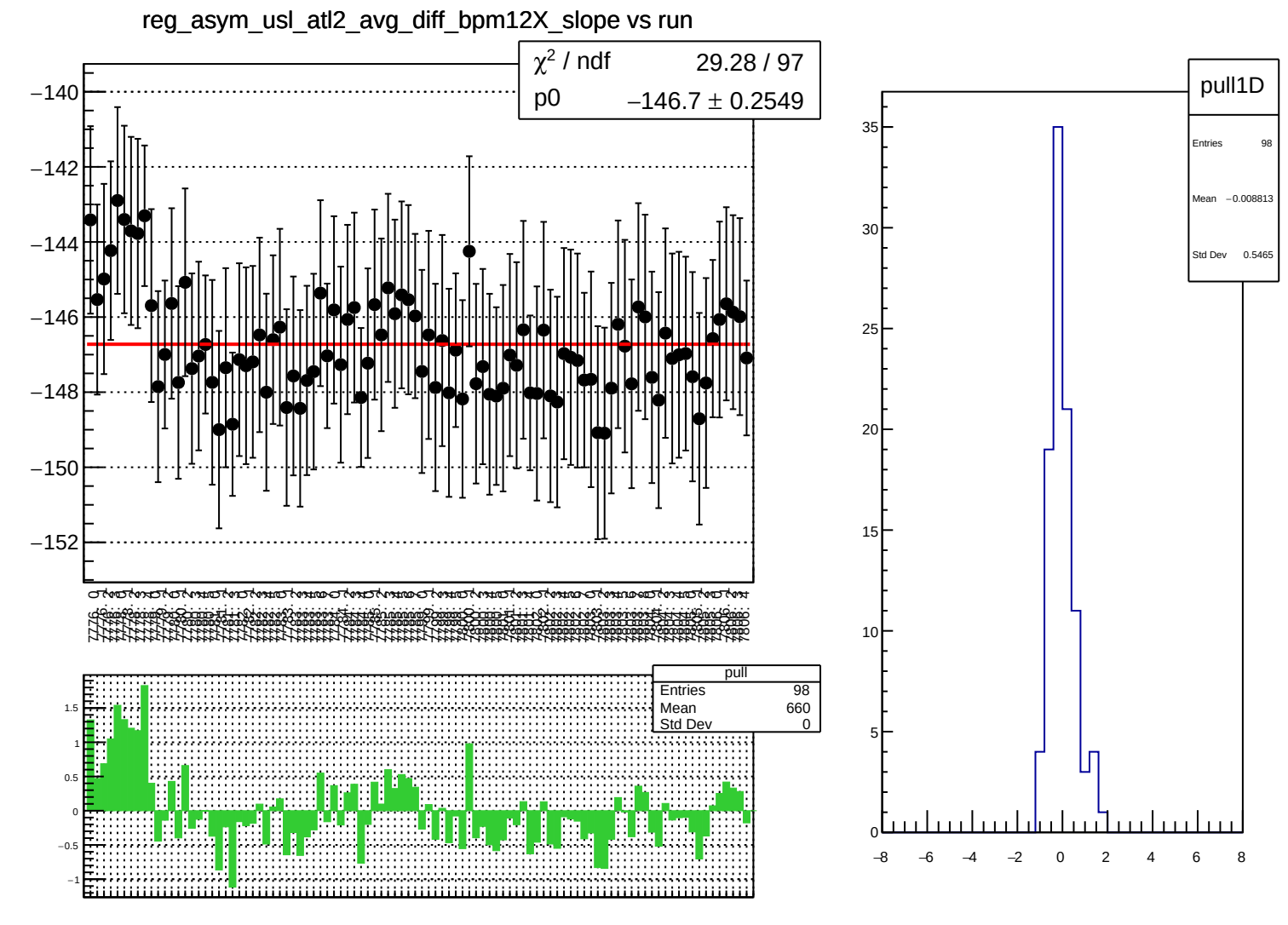

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 243.1 / 97
p0 −19.3 ± 0.07403
pull
Entries 98
Mean −1907
Std Dev 0
pull1D
Entries 98
Mean 0.009767
Std Dev 1.575

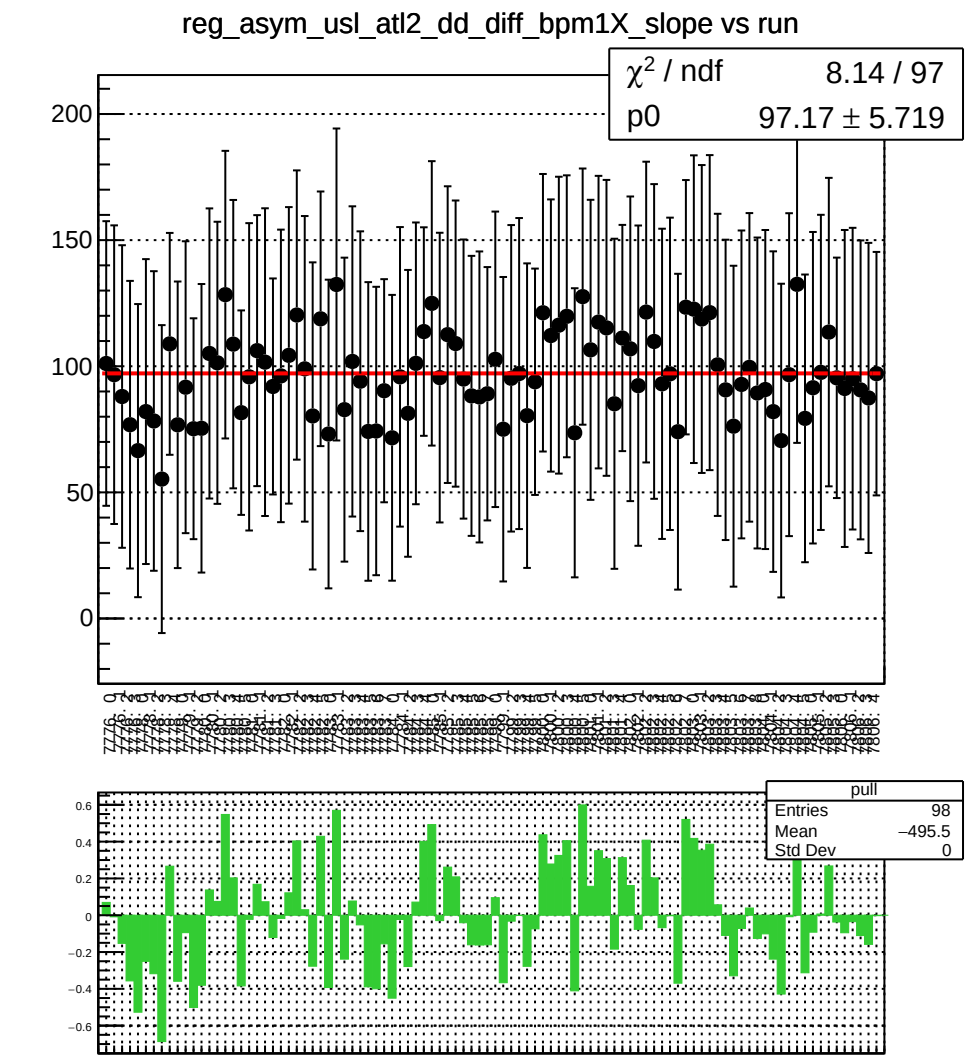

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.549 / 97
p0 −144.7 ± 6.93
−50
−100
−150
−200
−250
pull
Entries 98
Mean −137.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean 0.00603
Std Dev 0.3121
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

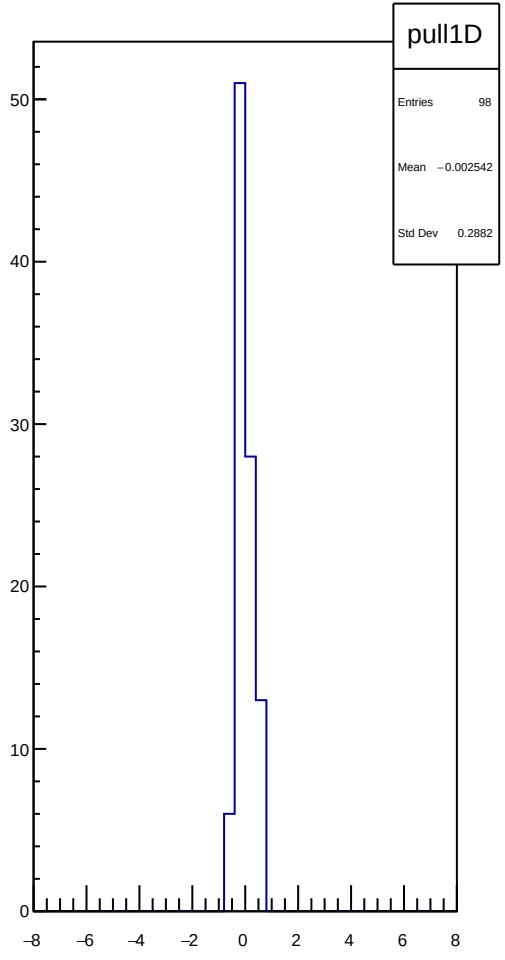

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.504 / 97
p0 43.14 ± 7.121
150
100
50
0
−50
−100
pull
Entries 98
Mean −561.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean −0.0007747
Std Dev 0.2576
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

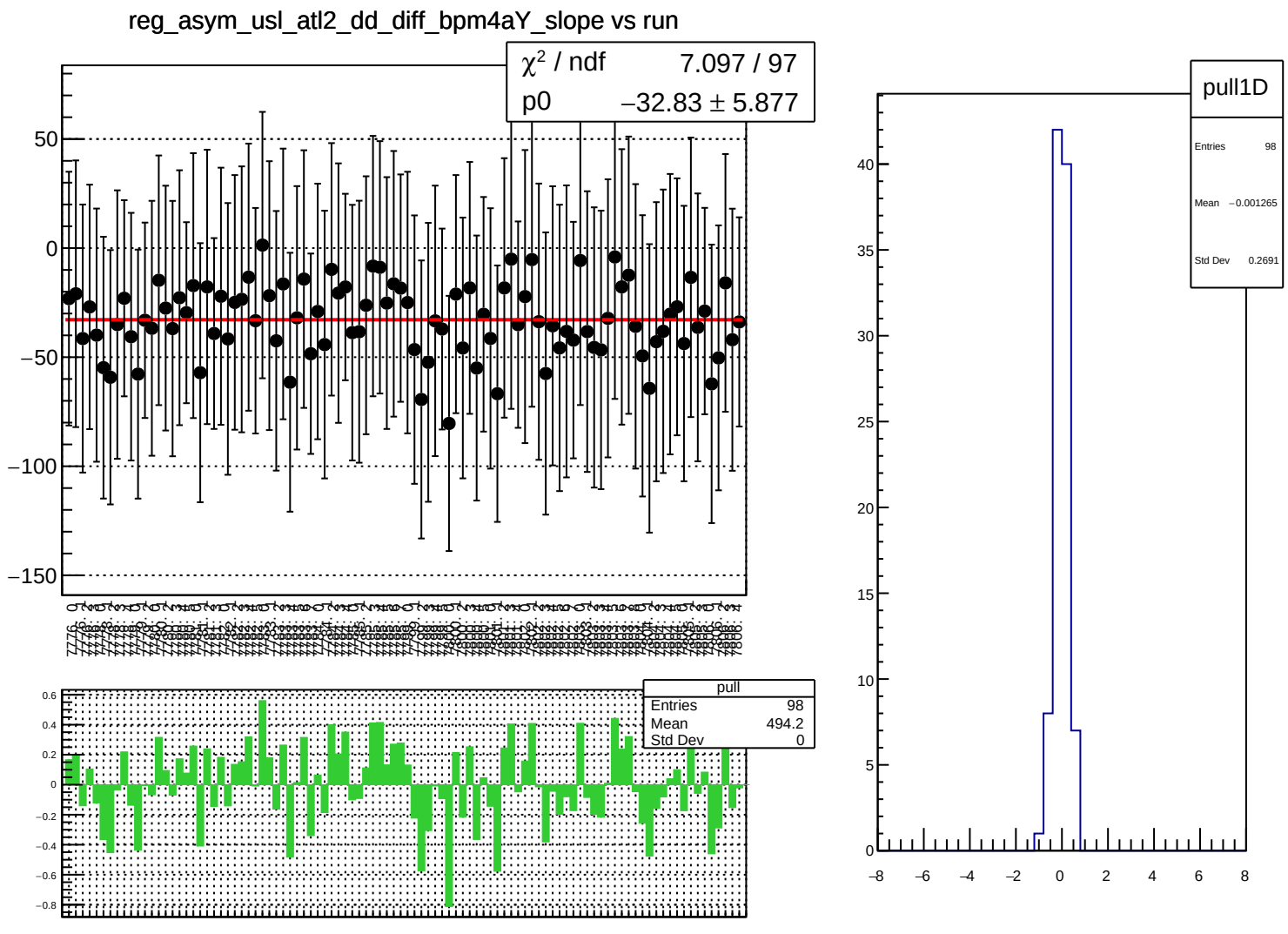

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.693 / 97
p0 69.09 ± 6.027
150
100
50
0
−50
pull
Entries 98
Mean −169.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean −0.005918
Std Dev 0.3144
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

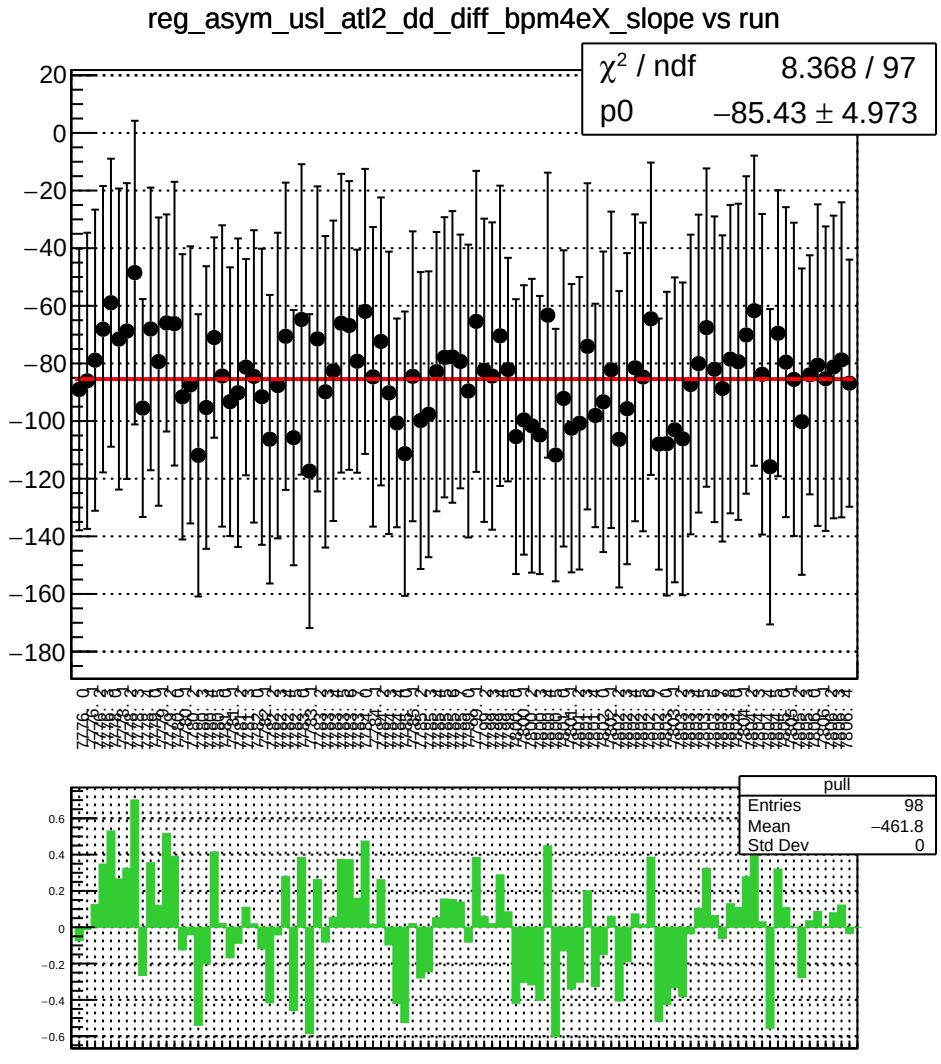

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.355 / 97
p0 28.18 ± 8.054
150
100
50
0
−50
−100
pull
Entries 98
Mean −272.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean 0.001079
Std Dev 0.2546
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

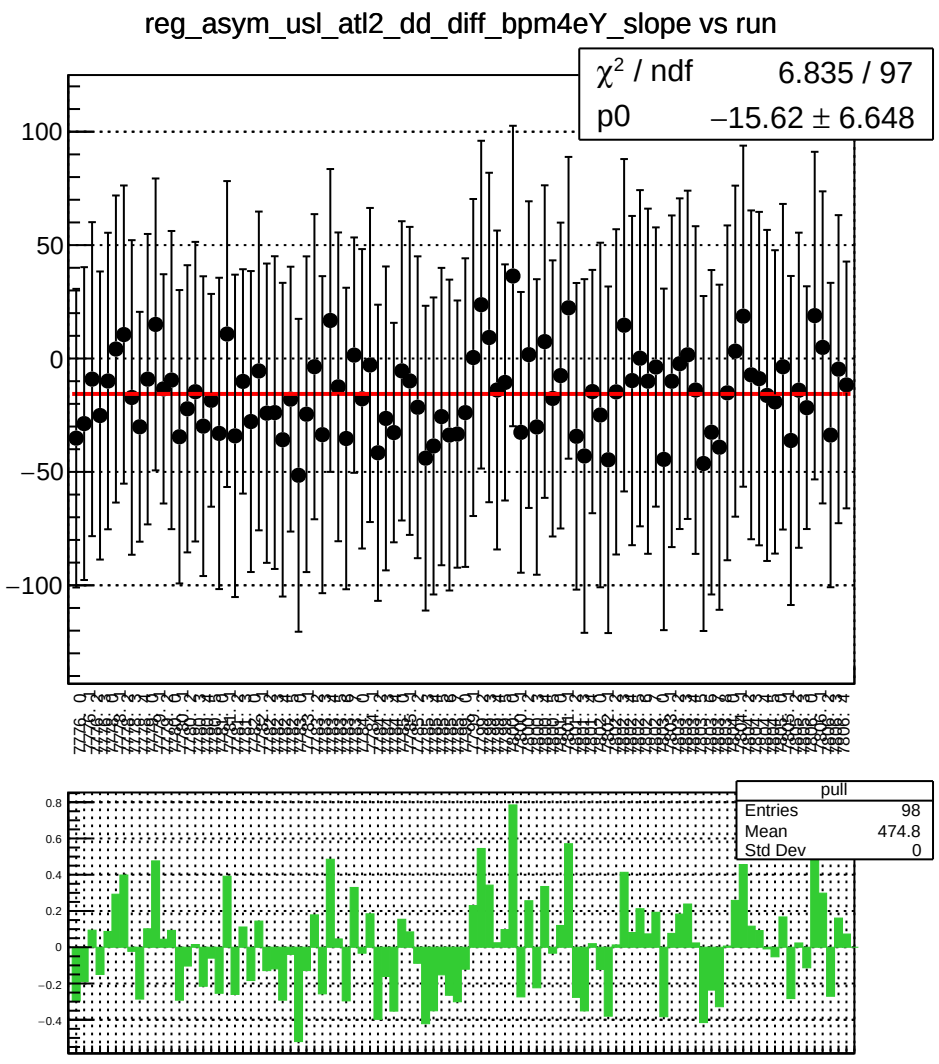

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 29.28 / 97
p0 −146.7 ± 0.2549
−140
−142
−144
−146
−148
−150
−152
pull
Entries 98
Mean 660
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean −0.008813
Std Dev 0.5465
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

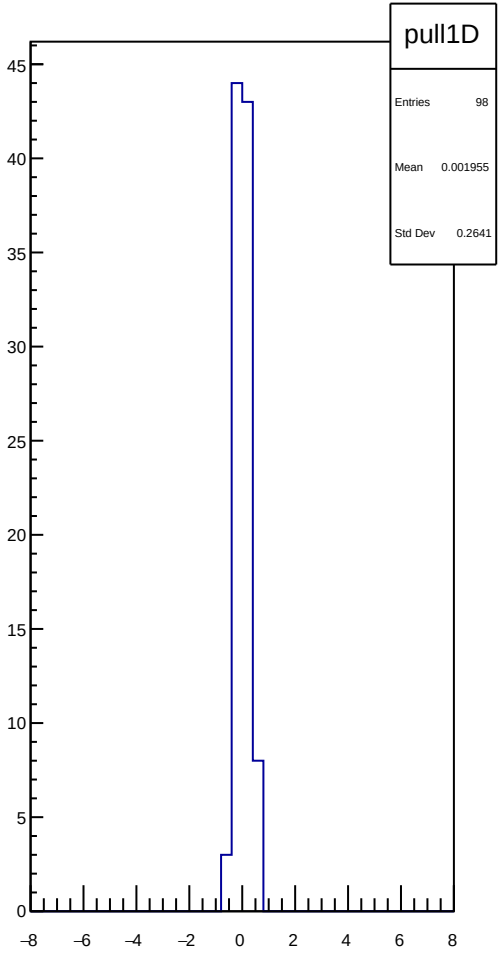

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.14 / 97
p0 97.17 ± 5.719
200
150
100
50
0
pull
Entries 98
Mean −495.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

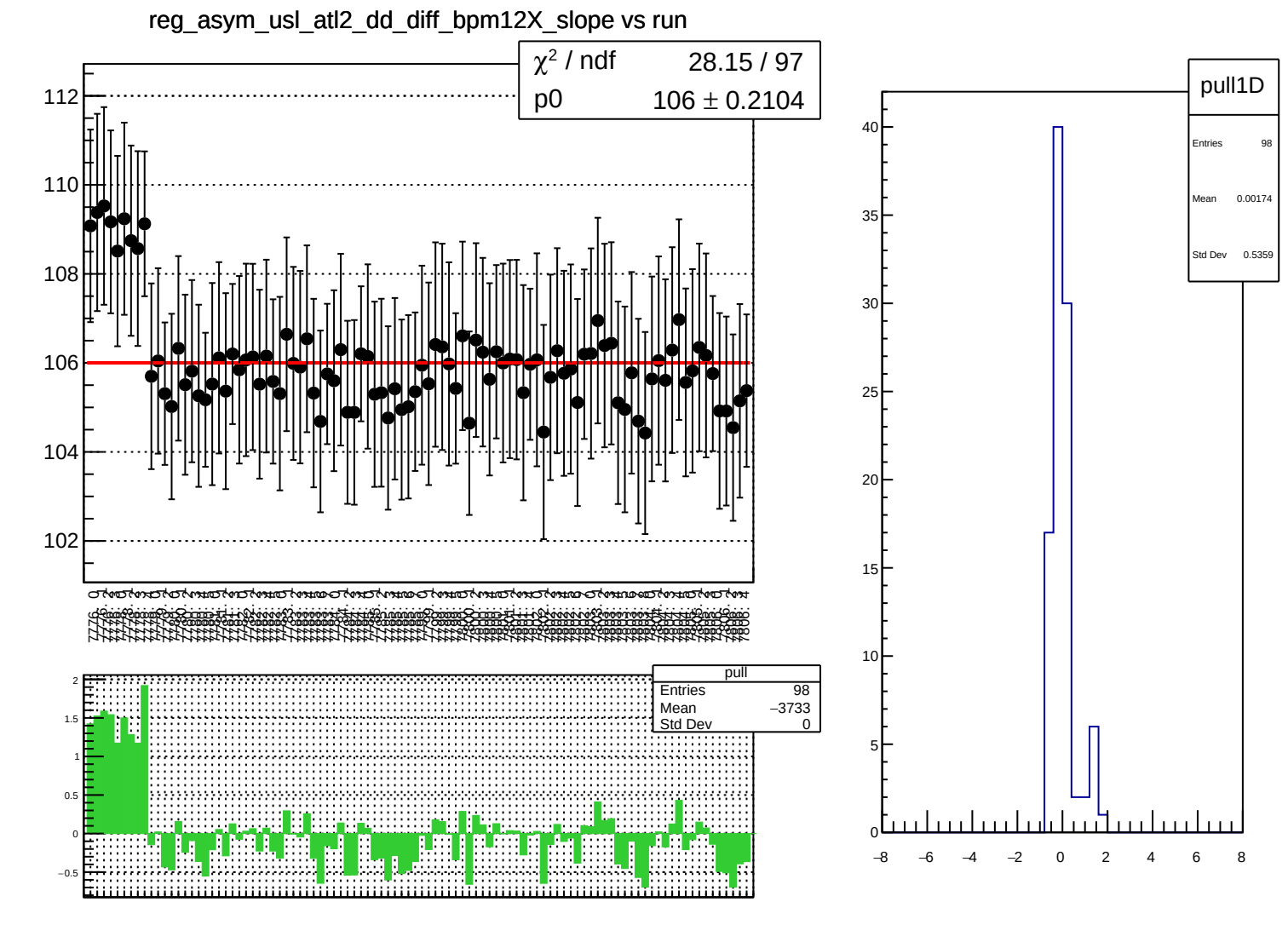

pull1D
Entries 98
Mean −0.002542
Std Dev 0.2882
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

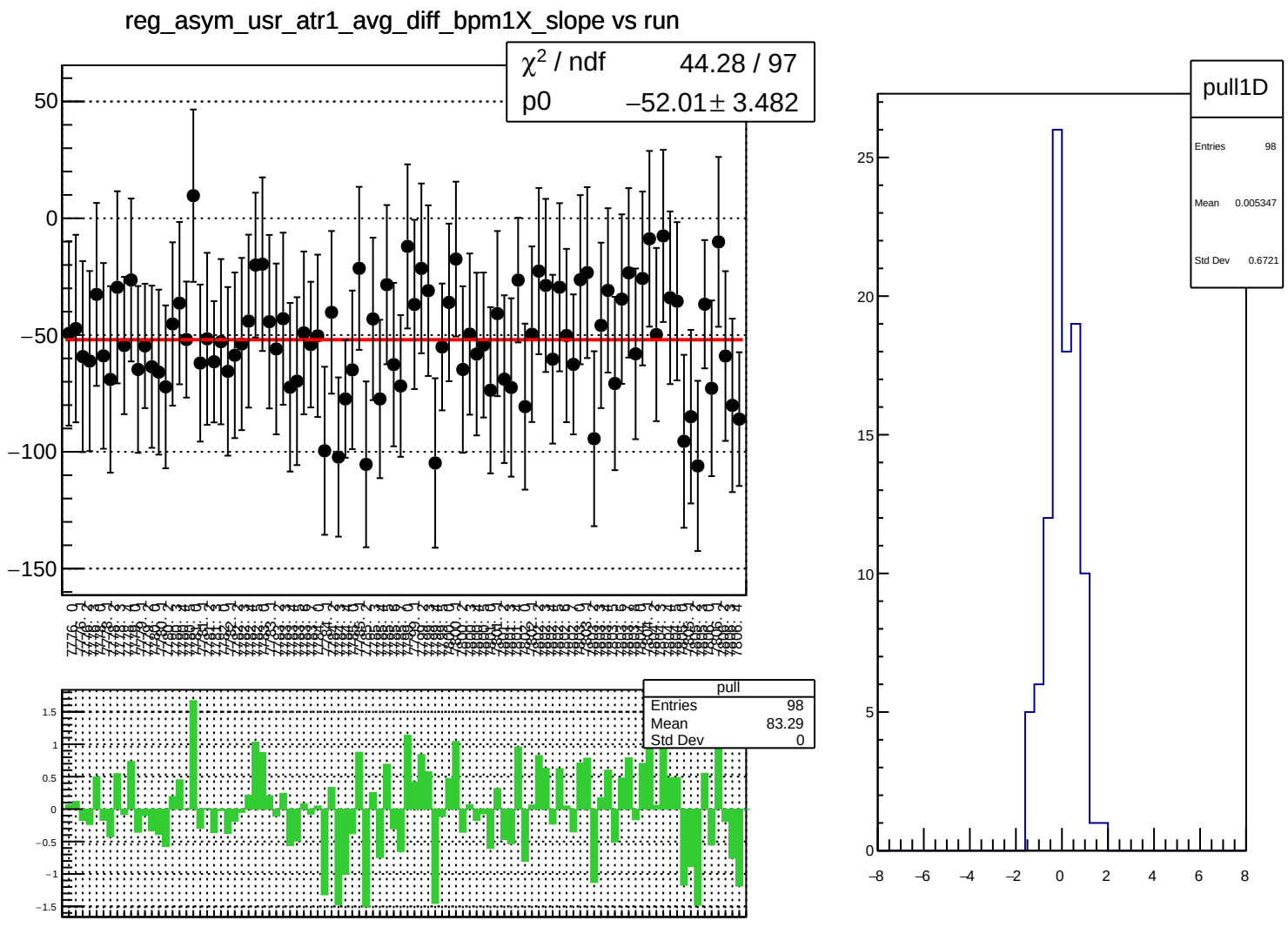

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.097 / 97
p0 −32.83 ± 5.877
50
0
−50
−100
−150
pull
Entries 98
Mean 494.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean −0.001265
Std Dev 0.2691
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

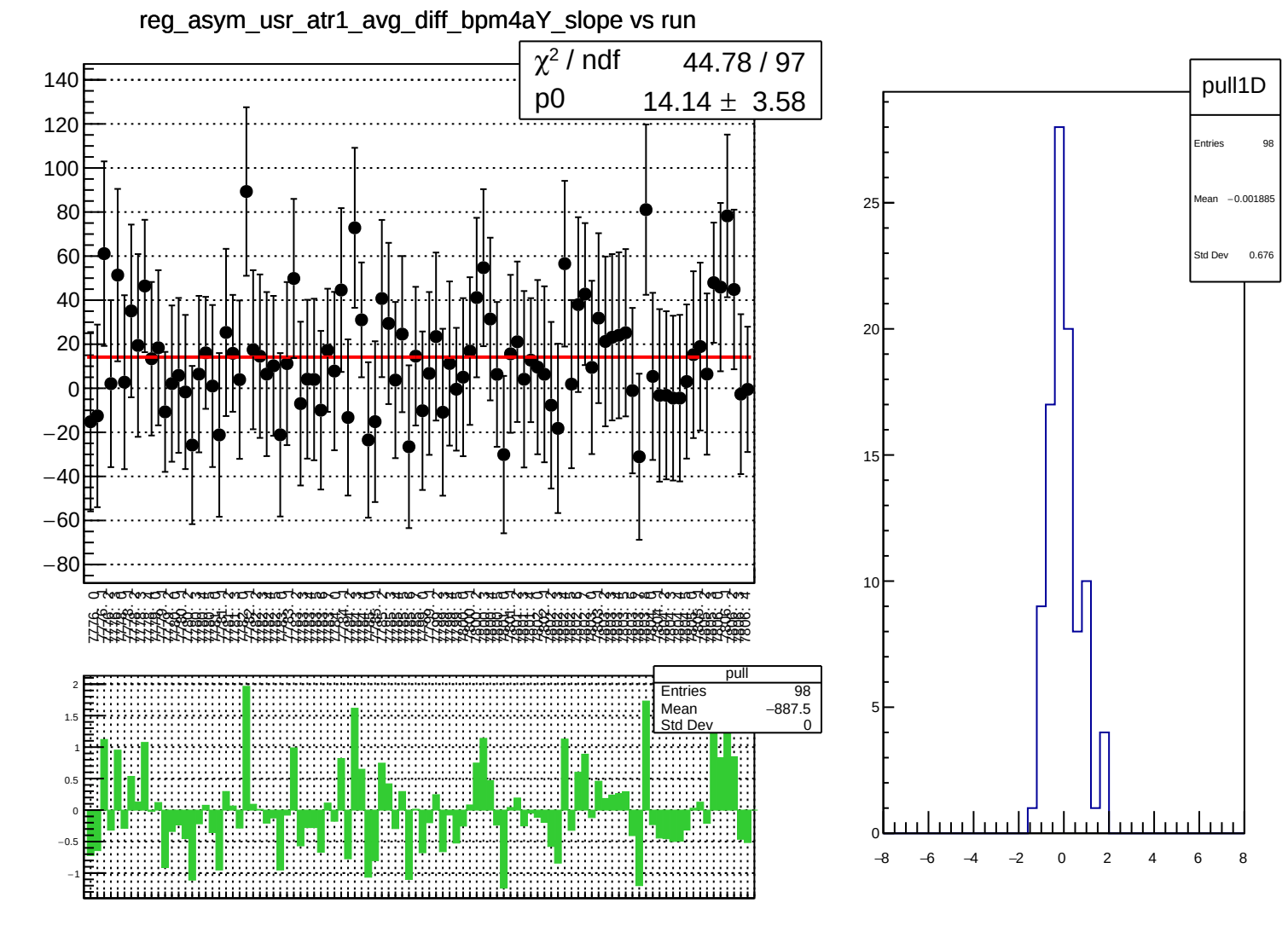

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.368 / 97
p0 −85.43 ± 4.973
pull
Entries 98
Mean −461.8
Std Dev 0
pull1D
Entries 98
Mean 0.002726
Std Dev 0.2922

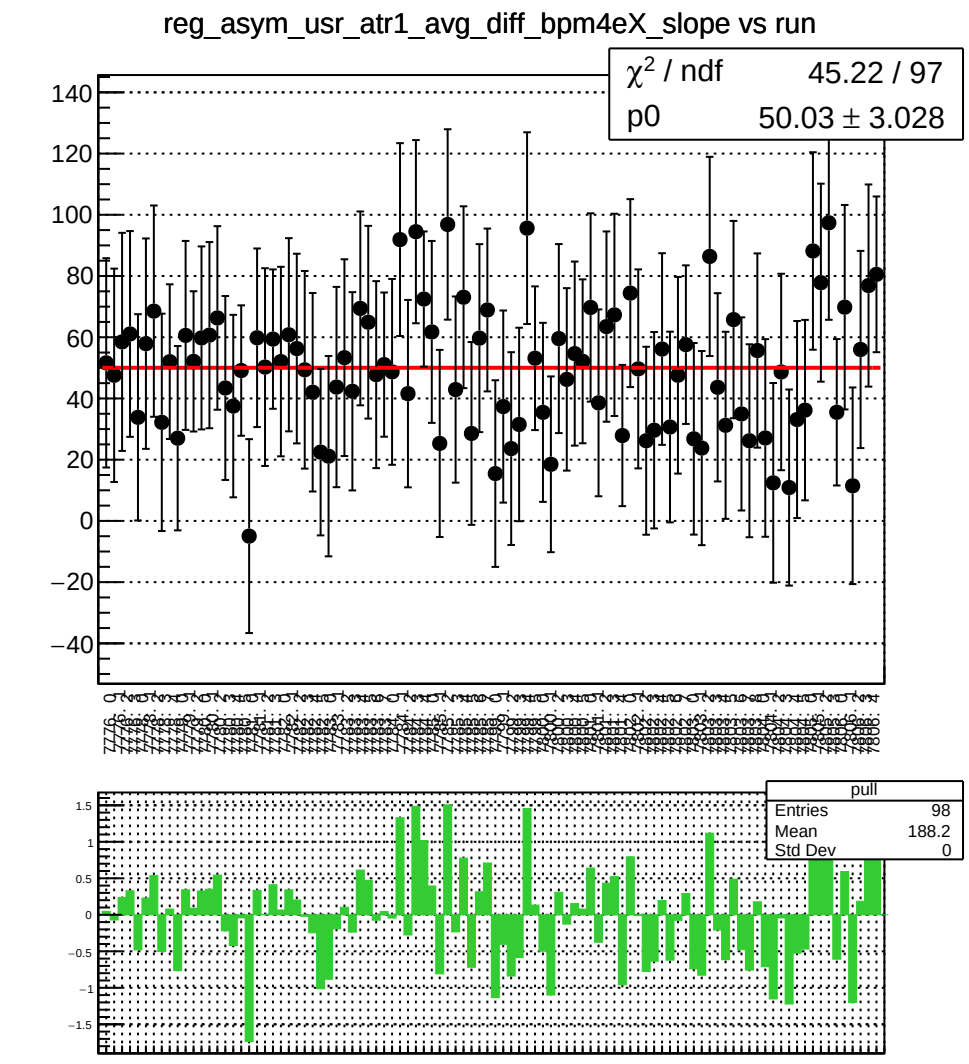

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.835 / 97
p0 −15.62 ± 6.648
100
50
0
−50
−100
pull
Entries 98
Mean 474.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

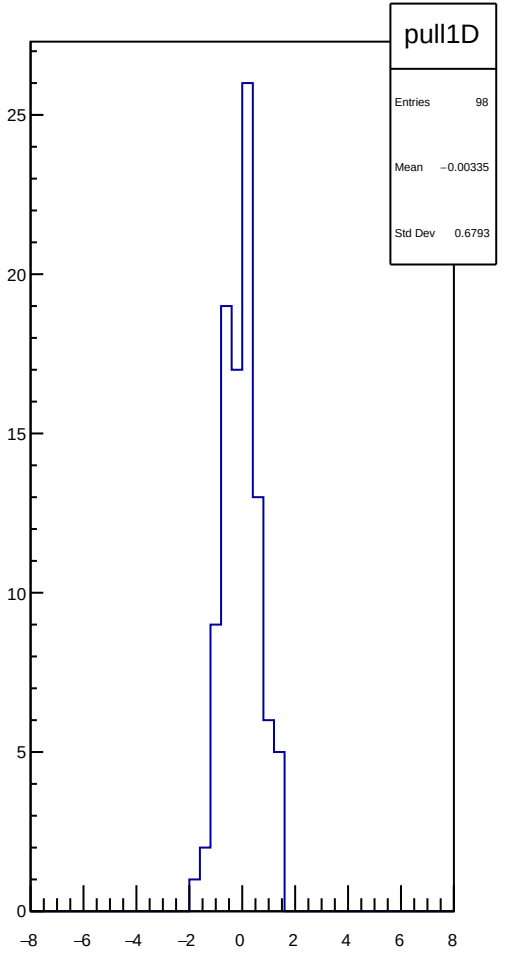

pull1D
Entries 98
Mean 0.001955
Std Dev 0.2641
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

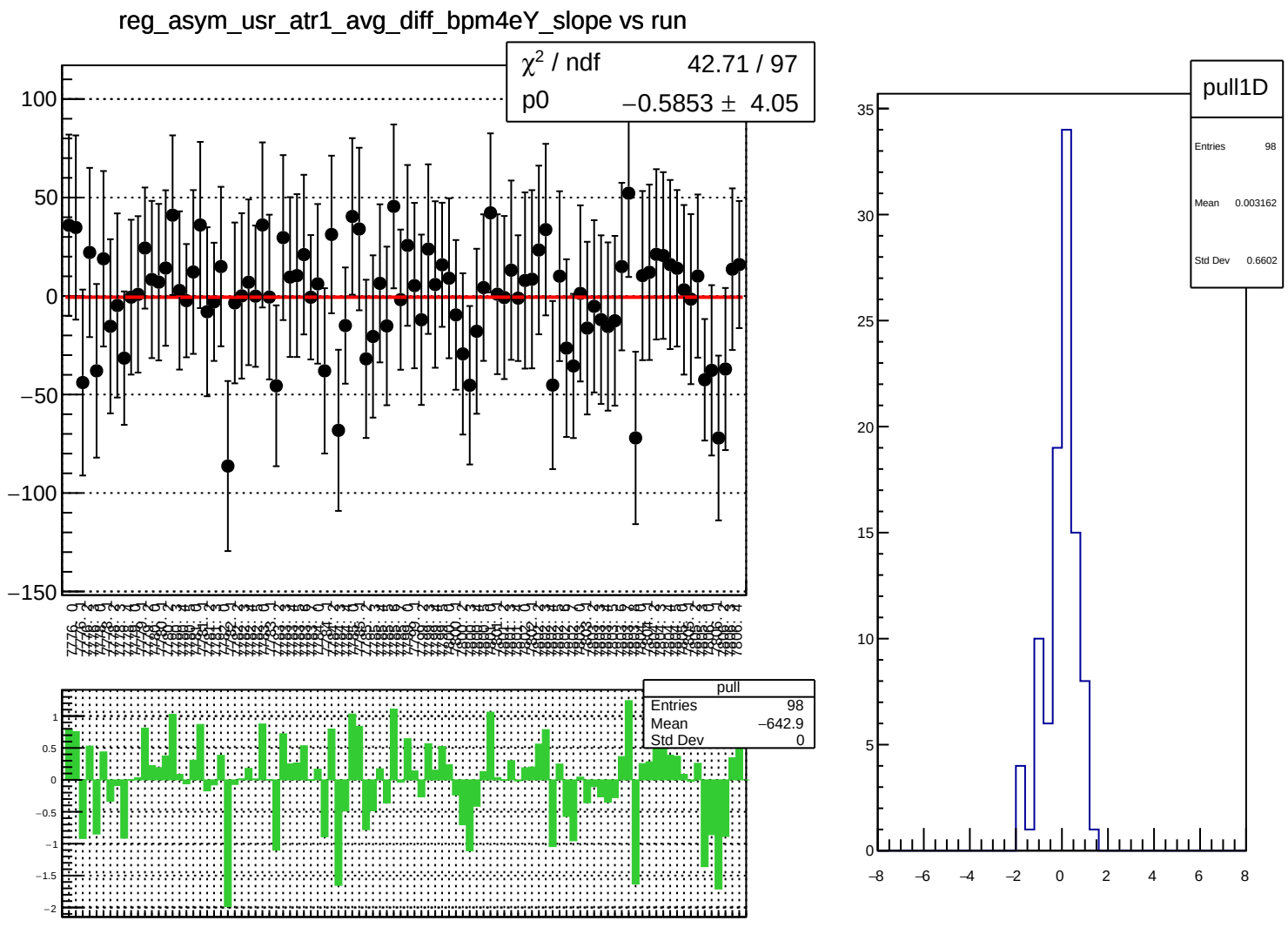

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 28.15 / 97
p0 106 ± 0.2104
112
110
108
106
104
102
pull
Entries 98
Mean −3733
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 98
Mean 0.00174
Std Dev 0.5359
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

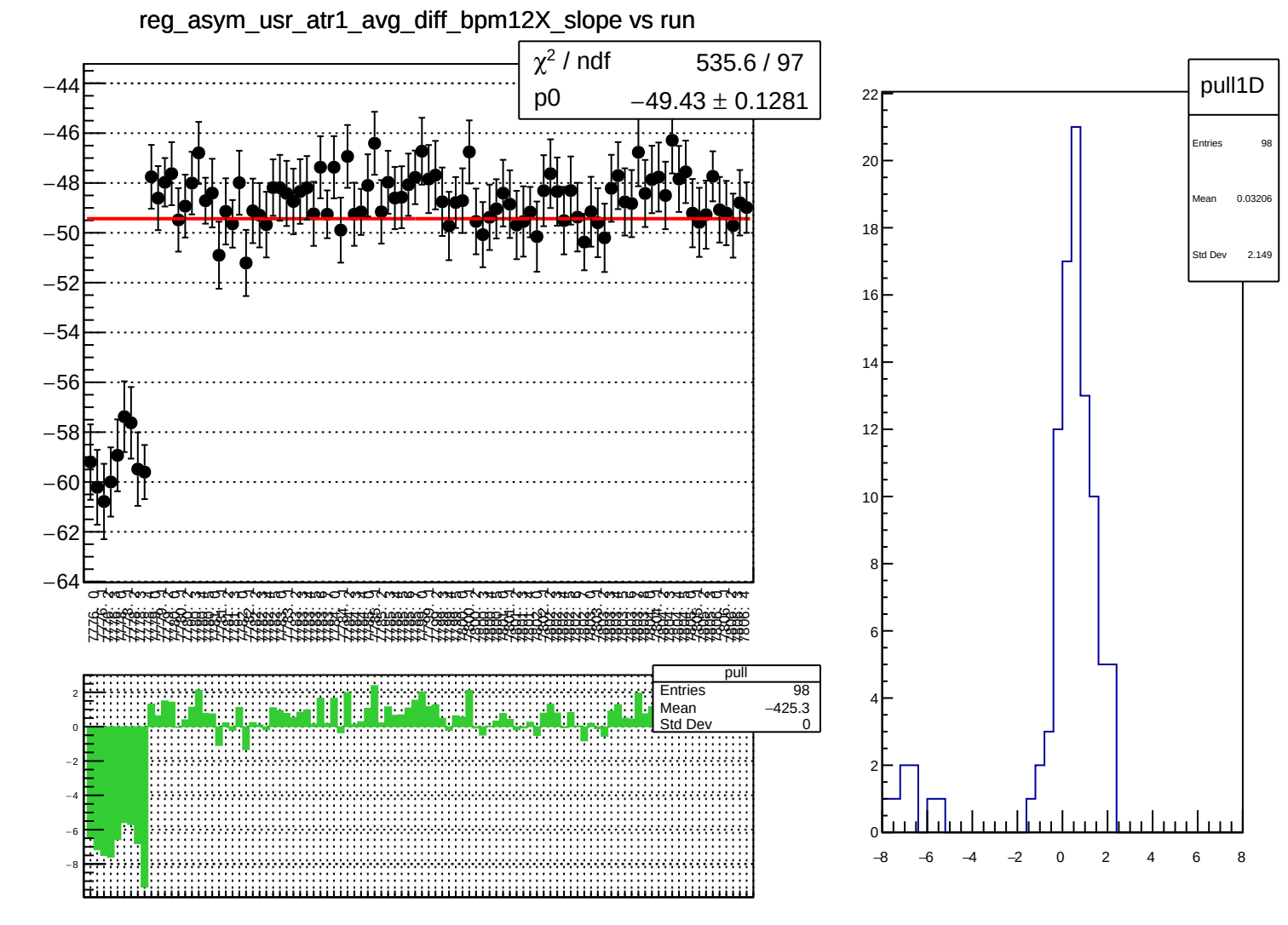

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 44.28 / 97
p0 −52.01 ± 3.482
50
0
−50
−100
−150
pull
Entries 98
Mean 83.29
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.005347
Std Dev 0.6721
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

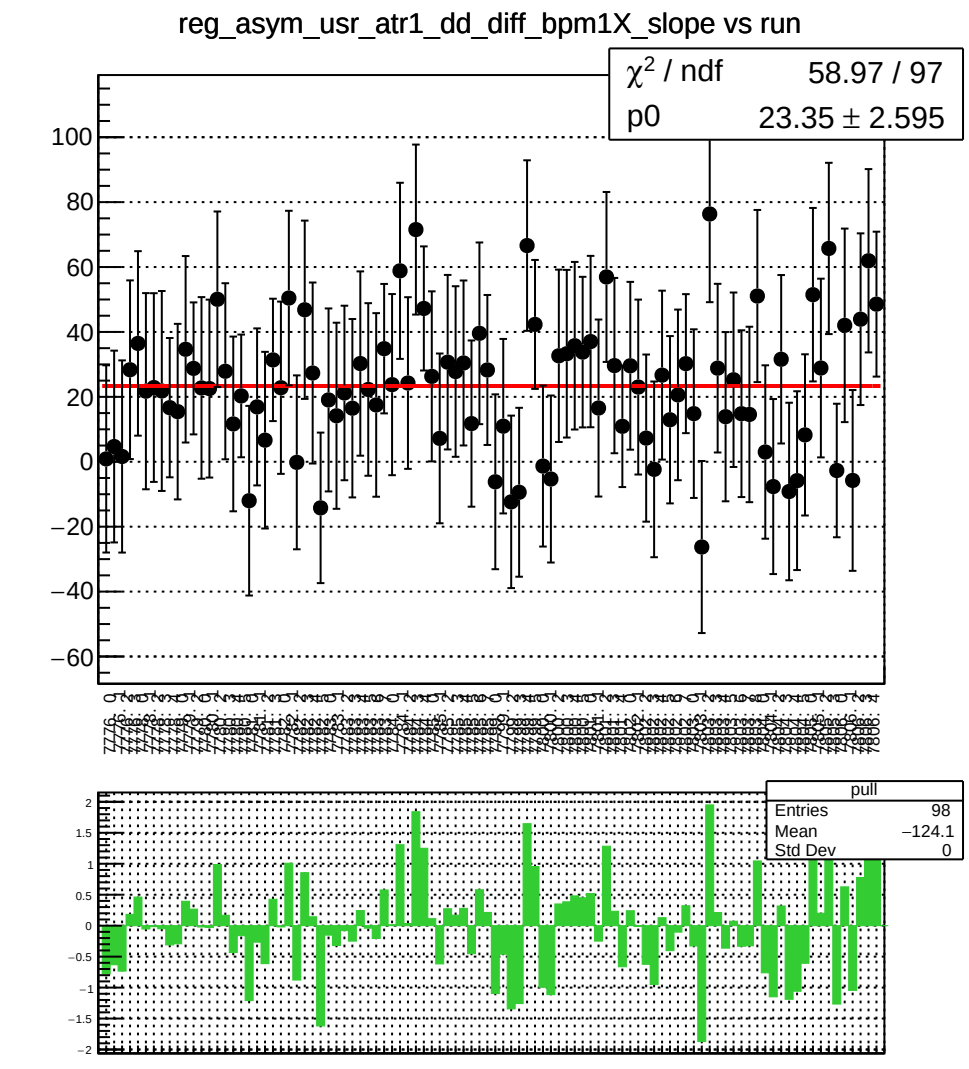

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.78 / 97
p0 14.14 ± 3.58
pull
Entries 98
Mean −887.5
Std Dev 0
pull1D
Entries 98
Mean −0.001885
Std Dev 0.676

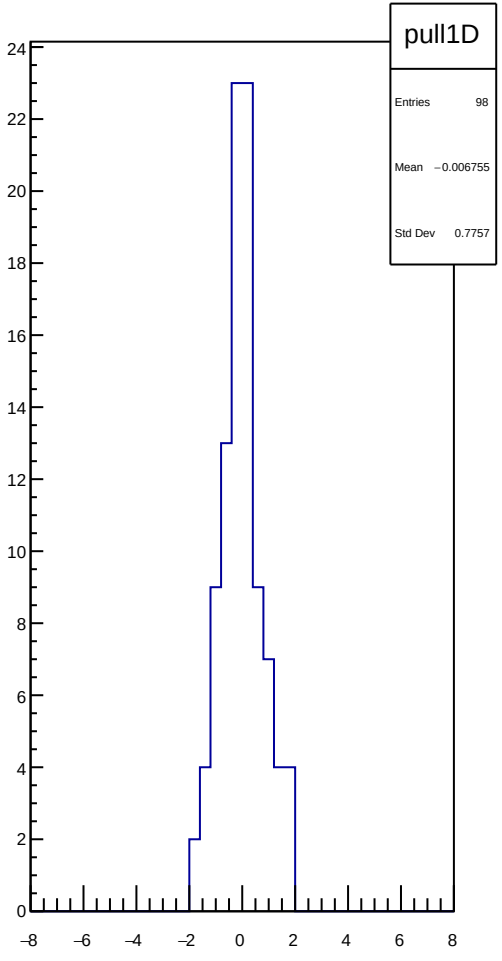

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.22 / 97
p0 50.03 ± 3.028
pull
Entries 98
Mean 188.2
Std Dev 0

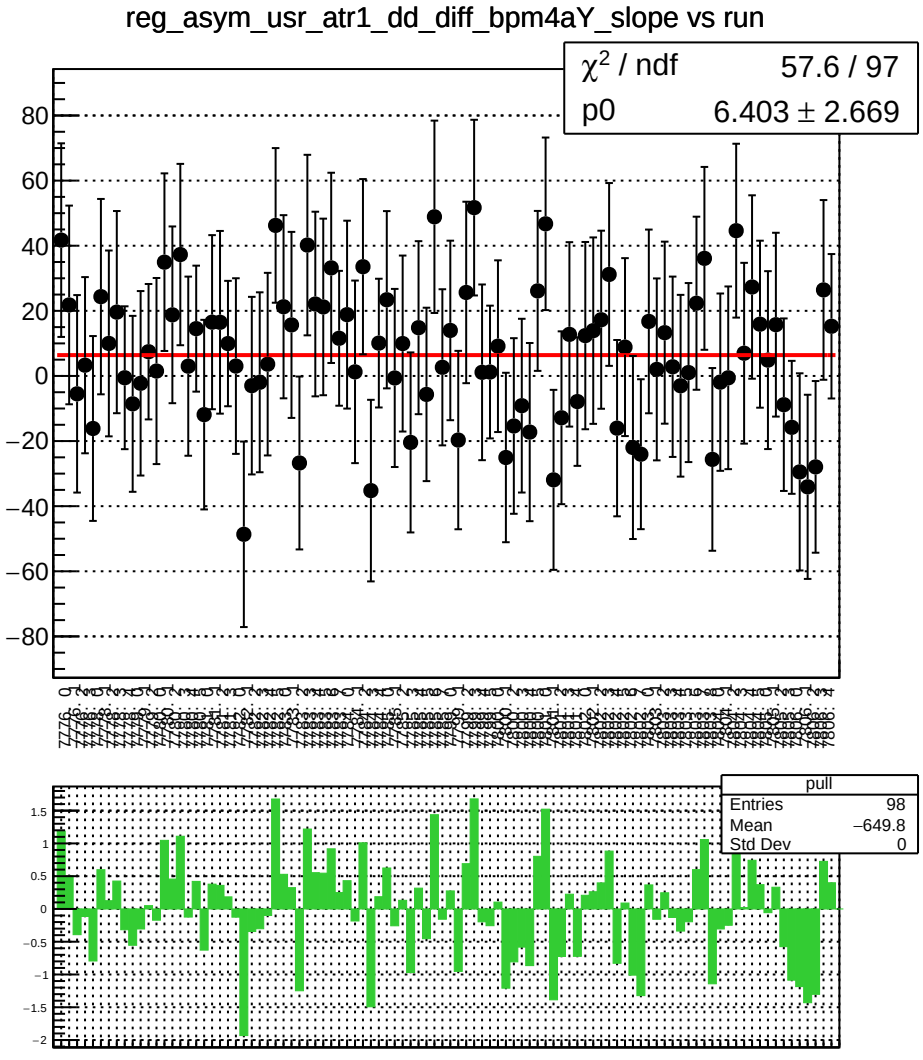

pull1D
Entries 98
Mean −0.00335
Std Dev 0.6793

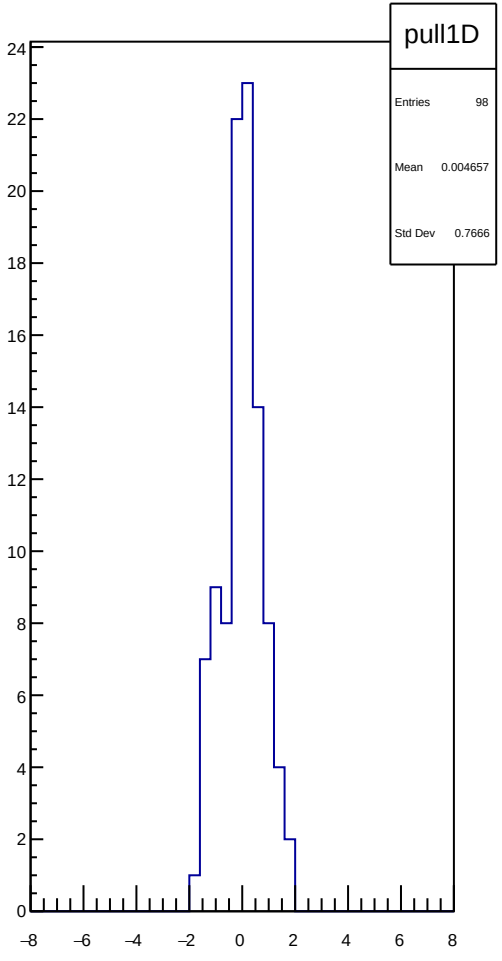

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.71 / 97
p0 −0.5853 ± 4.05
pull
Entries 98
Mean −642.9
Std Dev 0
pull1D
Entries 98
Mean 0.003162
Std Dev 0.6602

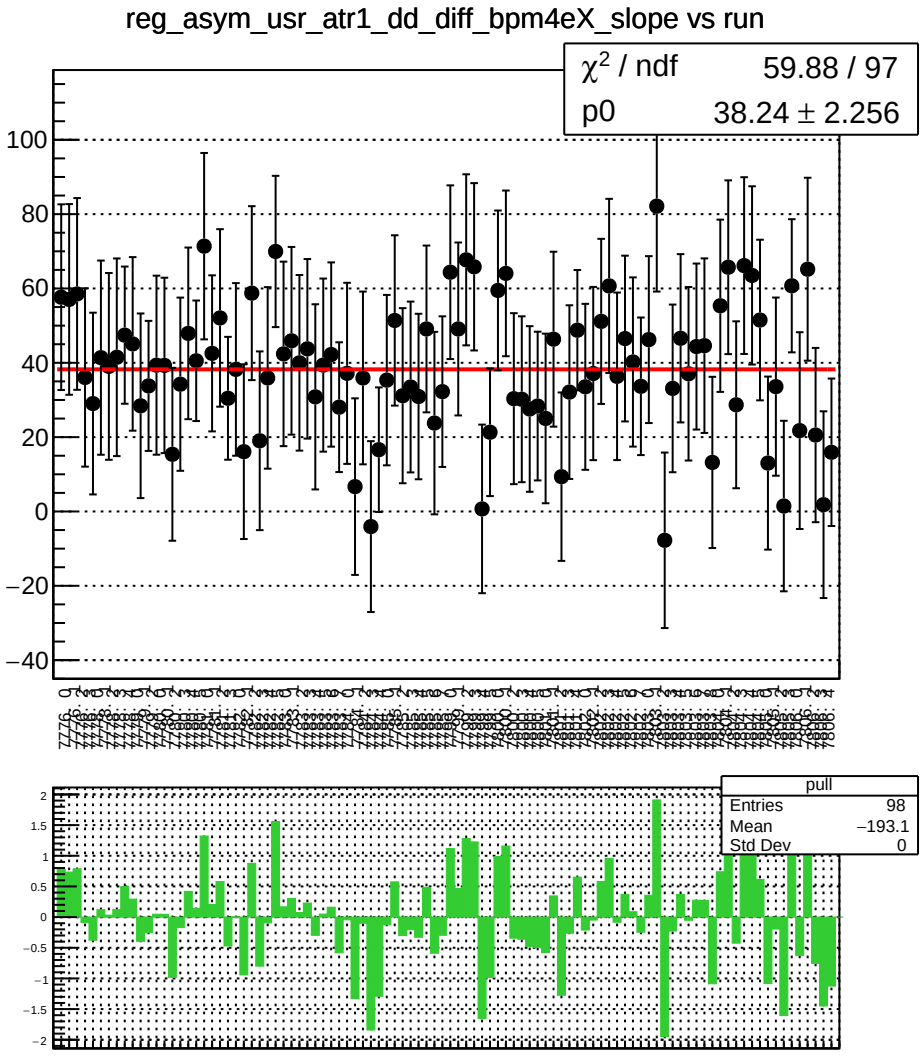

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 535.6 / 97
p0 −49.43 ± 0.1281
pull
Entries 98
Mean −425.3
Std Dev 0
pull1D
Entries 98
Mean 0.03206
Std Dev 2.149

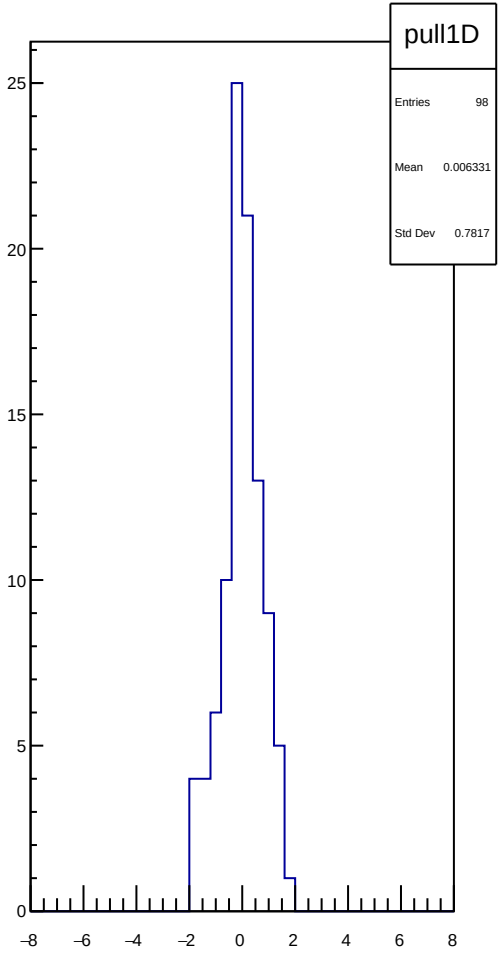

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 58.97 / 97
p0 23.35 ± 2.595
pull
Entries 98
Mean −124.1
Std Dev 0

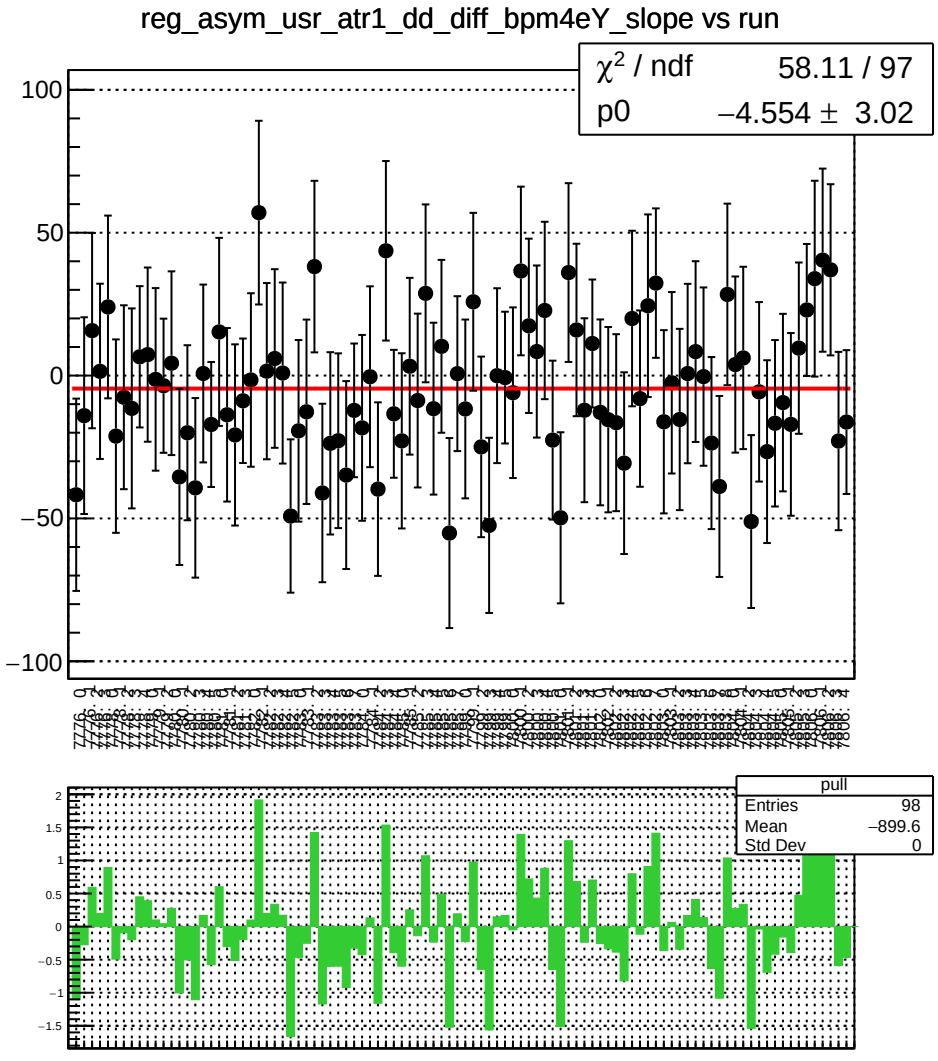

pull1D
Entries 98
Mean −0.006755
Std Dev 0.7757

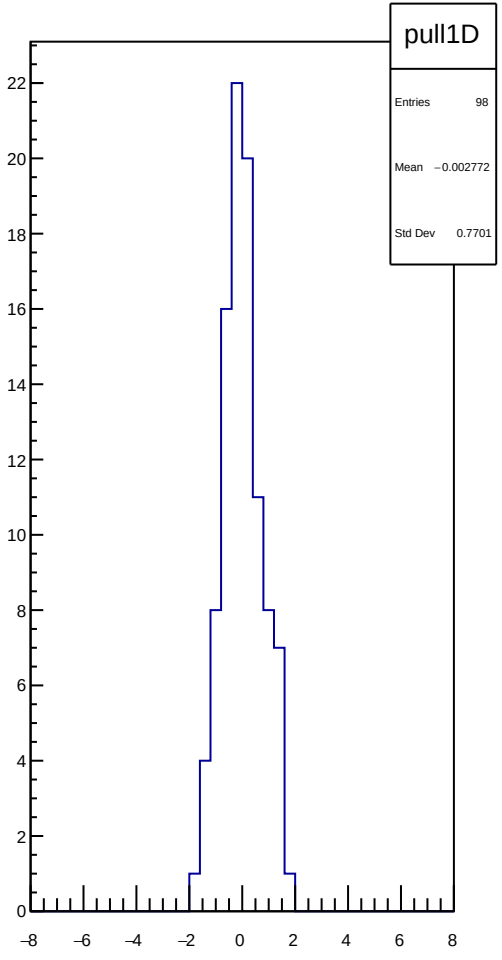

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.6 / 97
p0 6.403 ± 2.669
pull
Entries 98
Mean −649.8
Std Dev 0

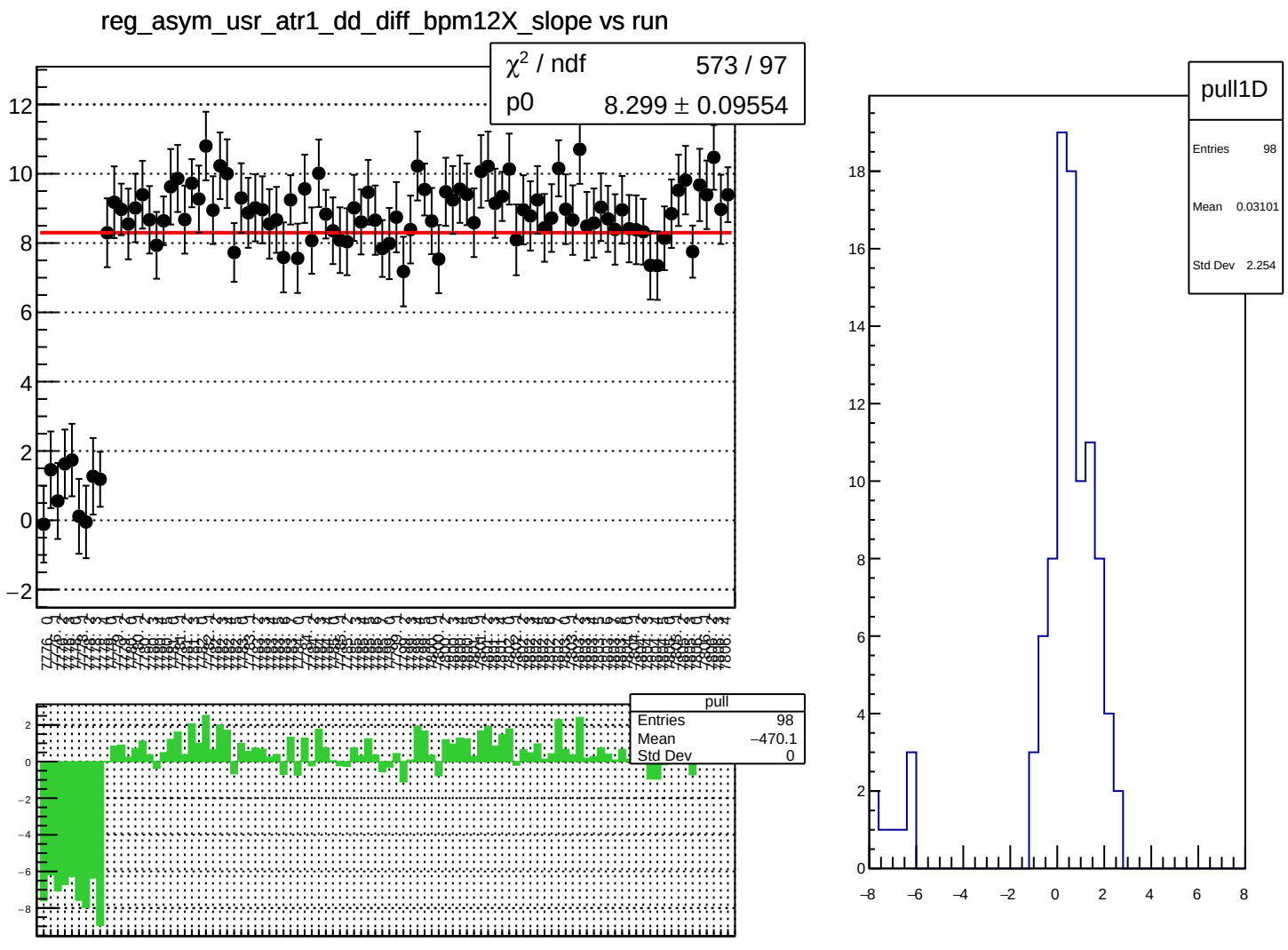

pull1D
Entries 98
Mean 0.004657
Std Dev 0.7666

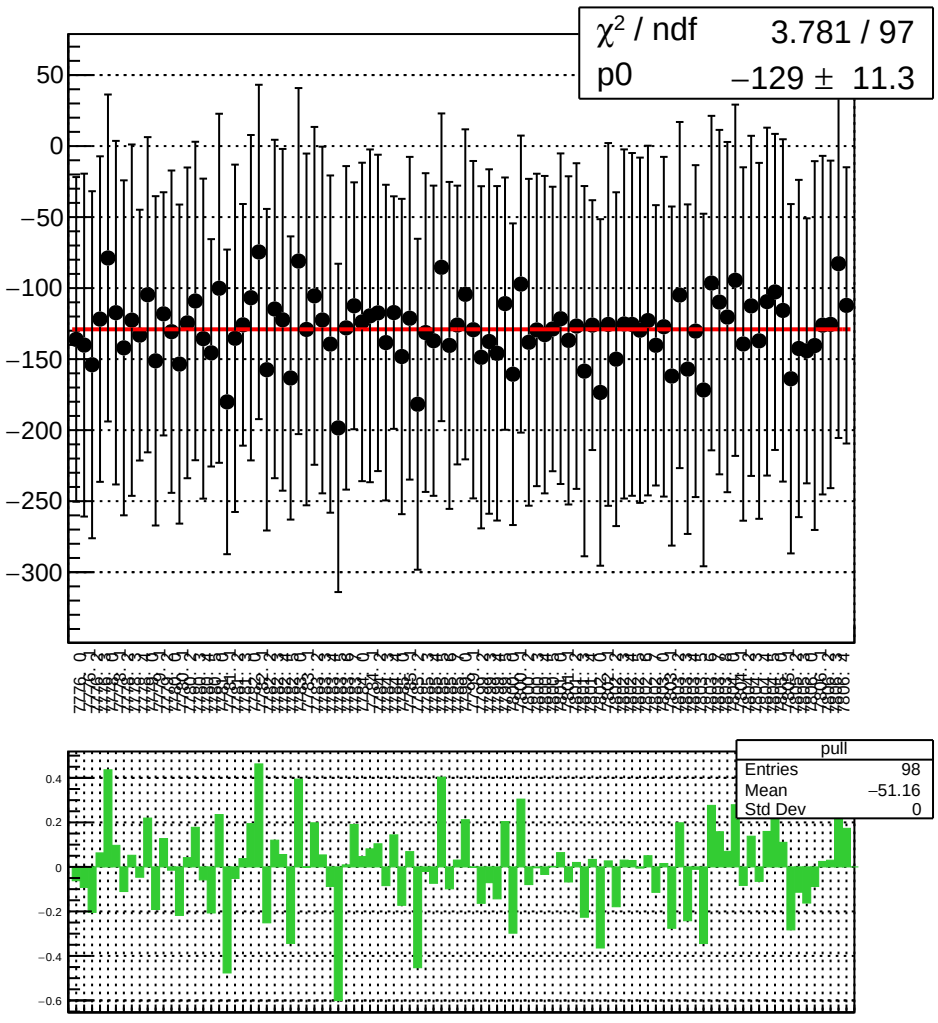

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.88 / 97
p0 38.24 ± 2.256
pull
Entries 98
Mean −193.1
Std Dev 0

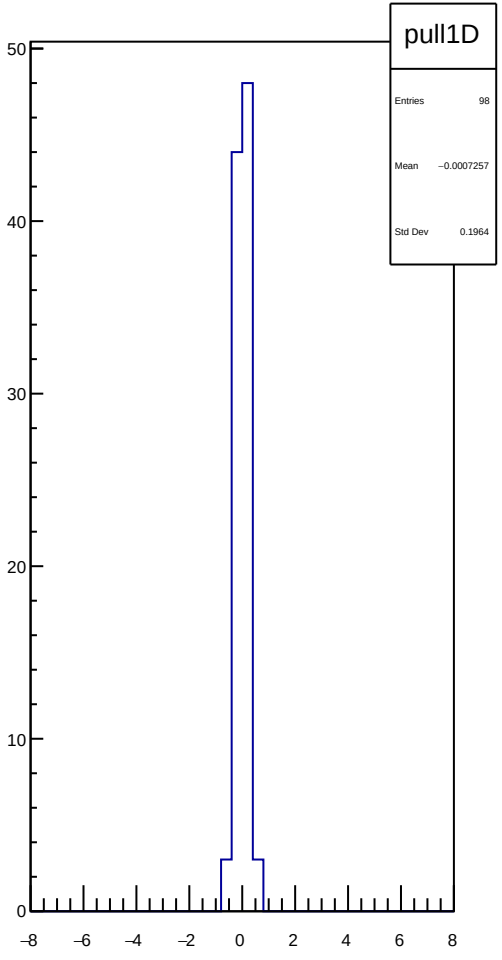

pull1D
Entries 98
Mean 0.006331
Std Dev 0.7817

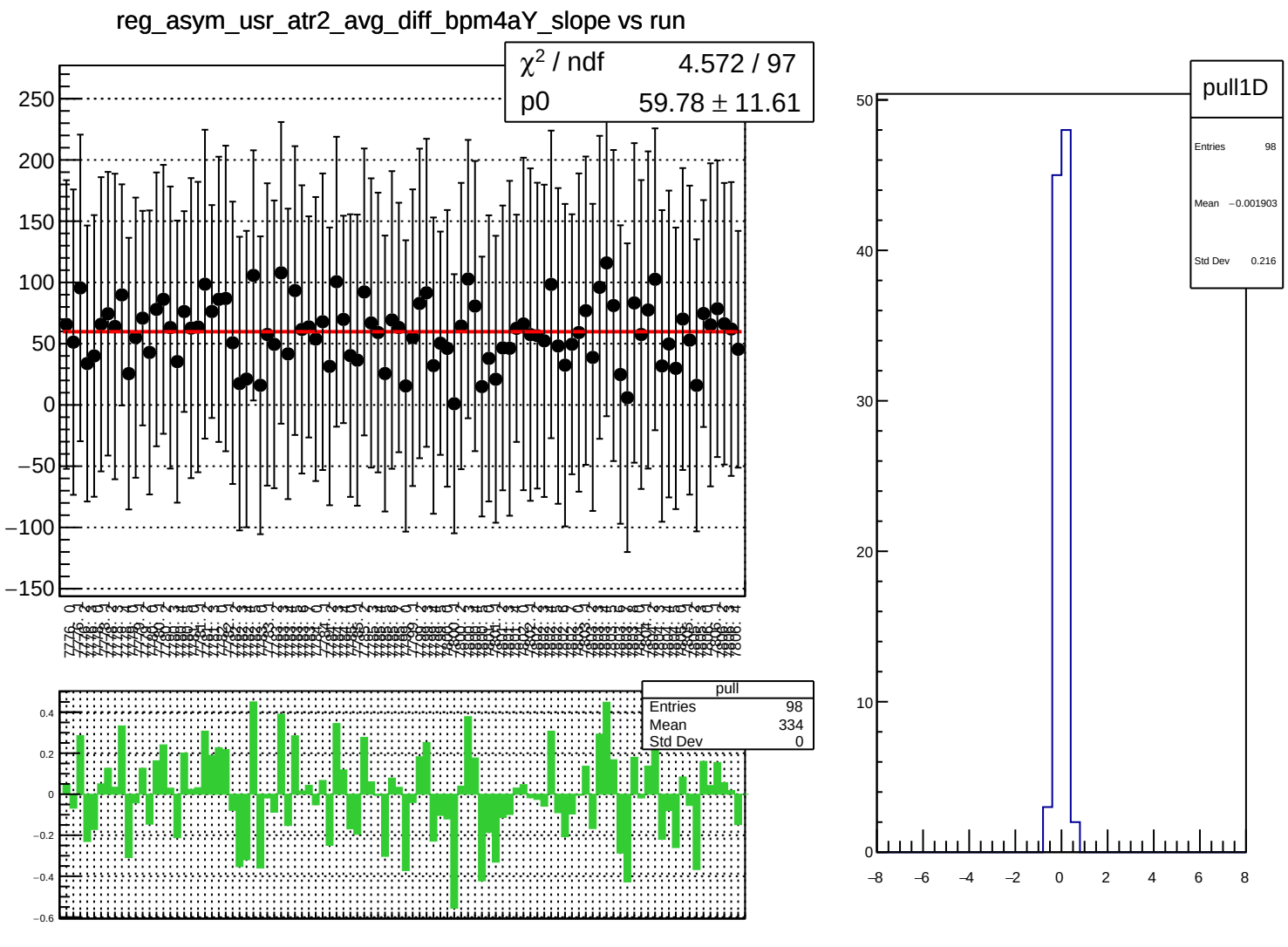

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.11 / 97
p0 −4.554 ± 3.02
pull
Entries 98
Mean −899.6
Std Dev 0

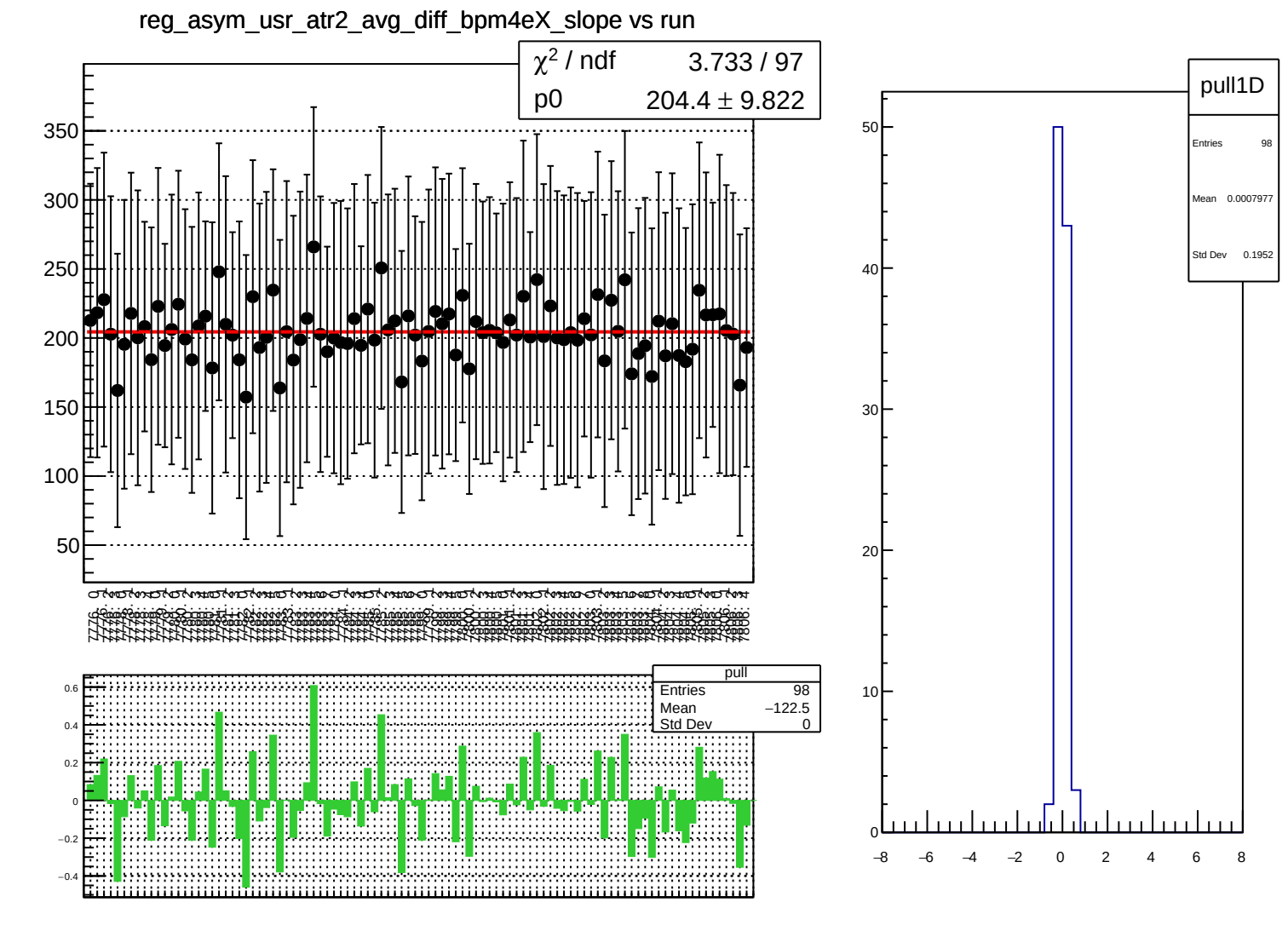

pull1D
Entries 98
Mean −0.002772
Std Dev 0.7701

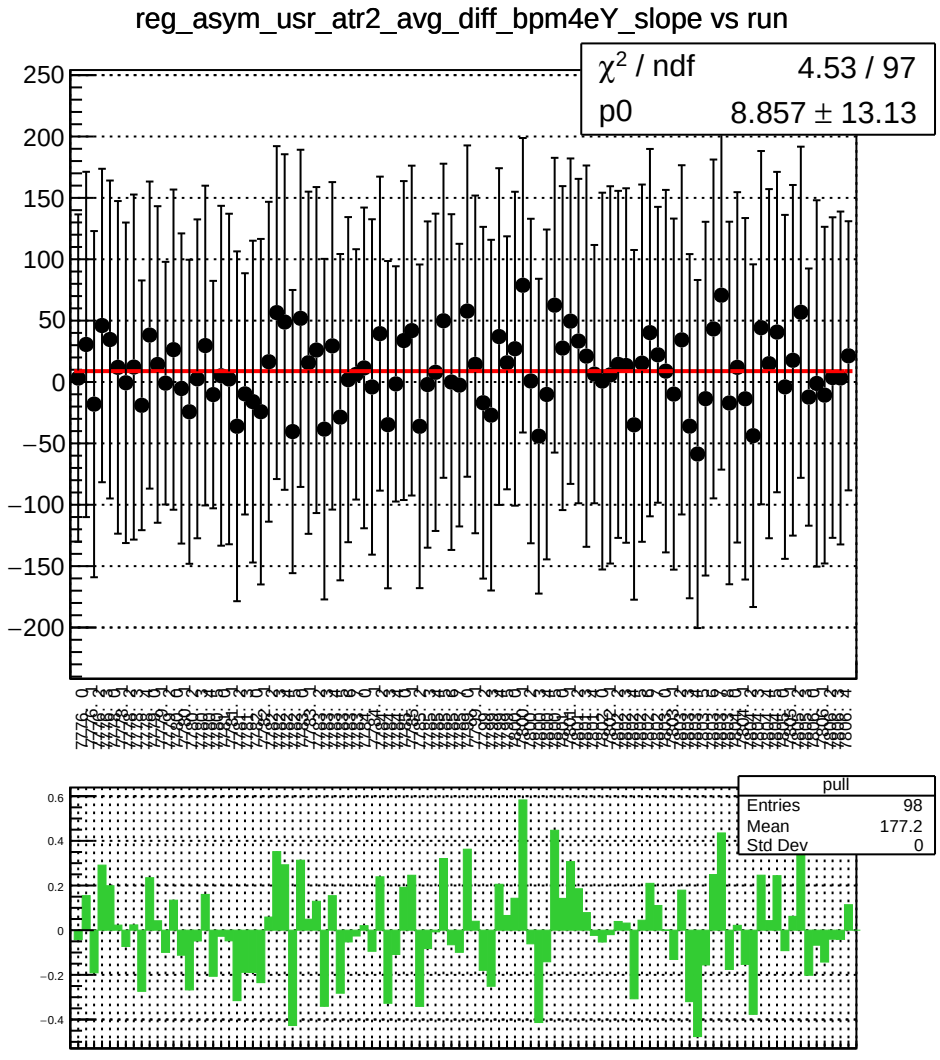

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 573 / 97
p0 8.299 ± 0.09554
pull
Entries 98
Mean −470.1
Std Dev 0
pull1D
Entries 98
Mean 0.03101
Std Dev 2.254

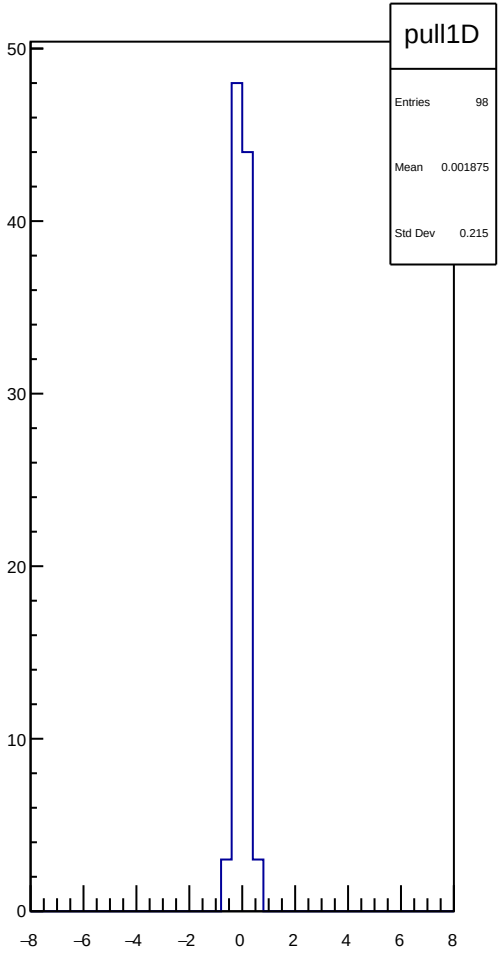

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.781 / 97
p0 −129 ± 11.3
pull
Entries 98
Mean −51.16
Std Dev 0

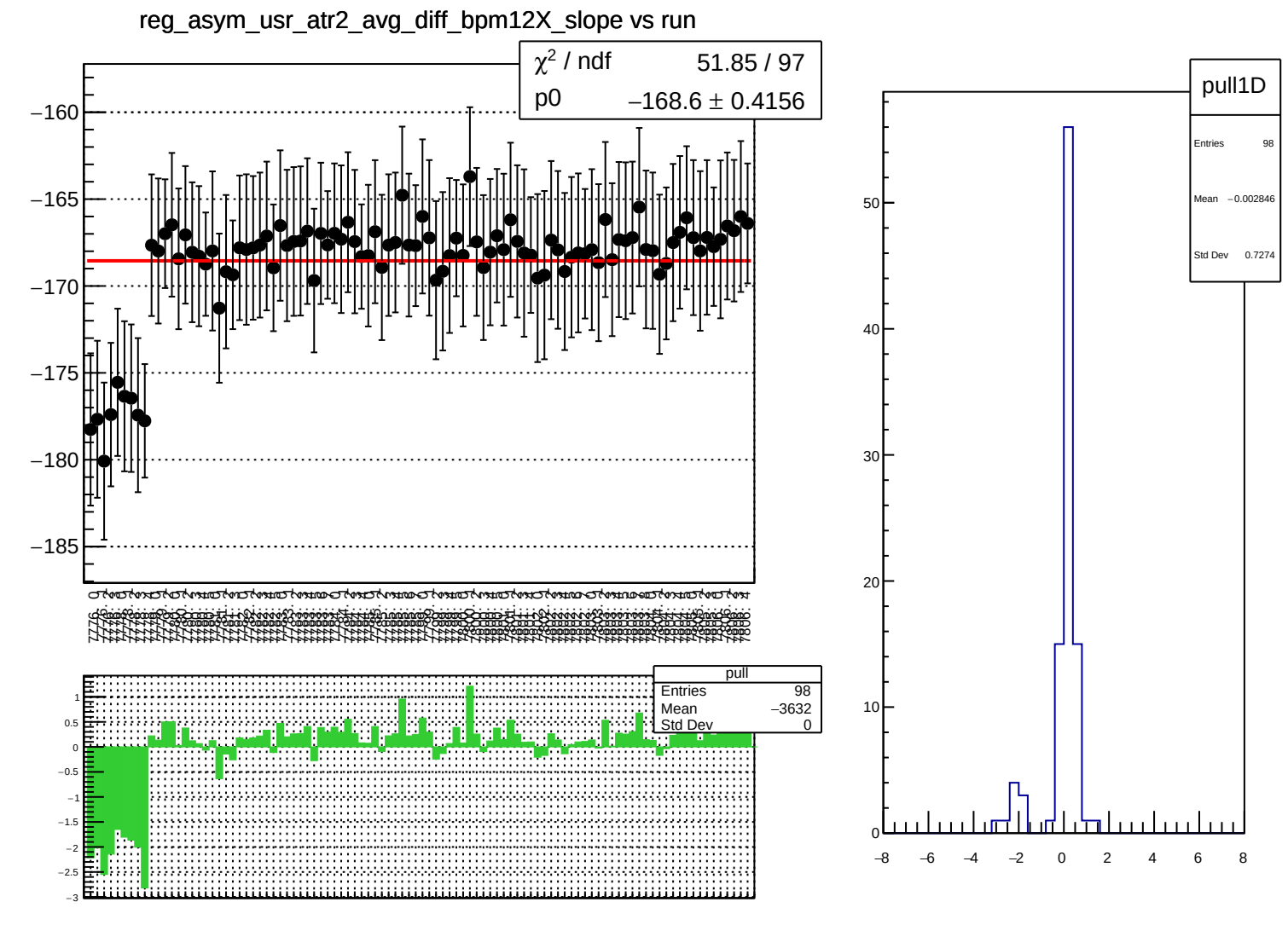

pull1D
Entries 98
Mean −0.0007257
Std Dev 0.1964

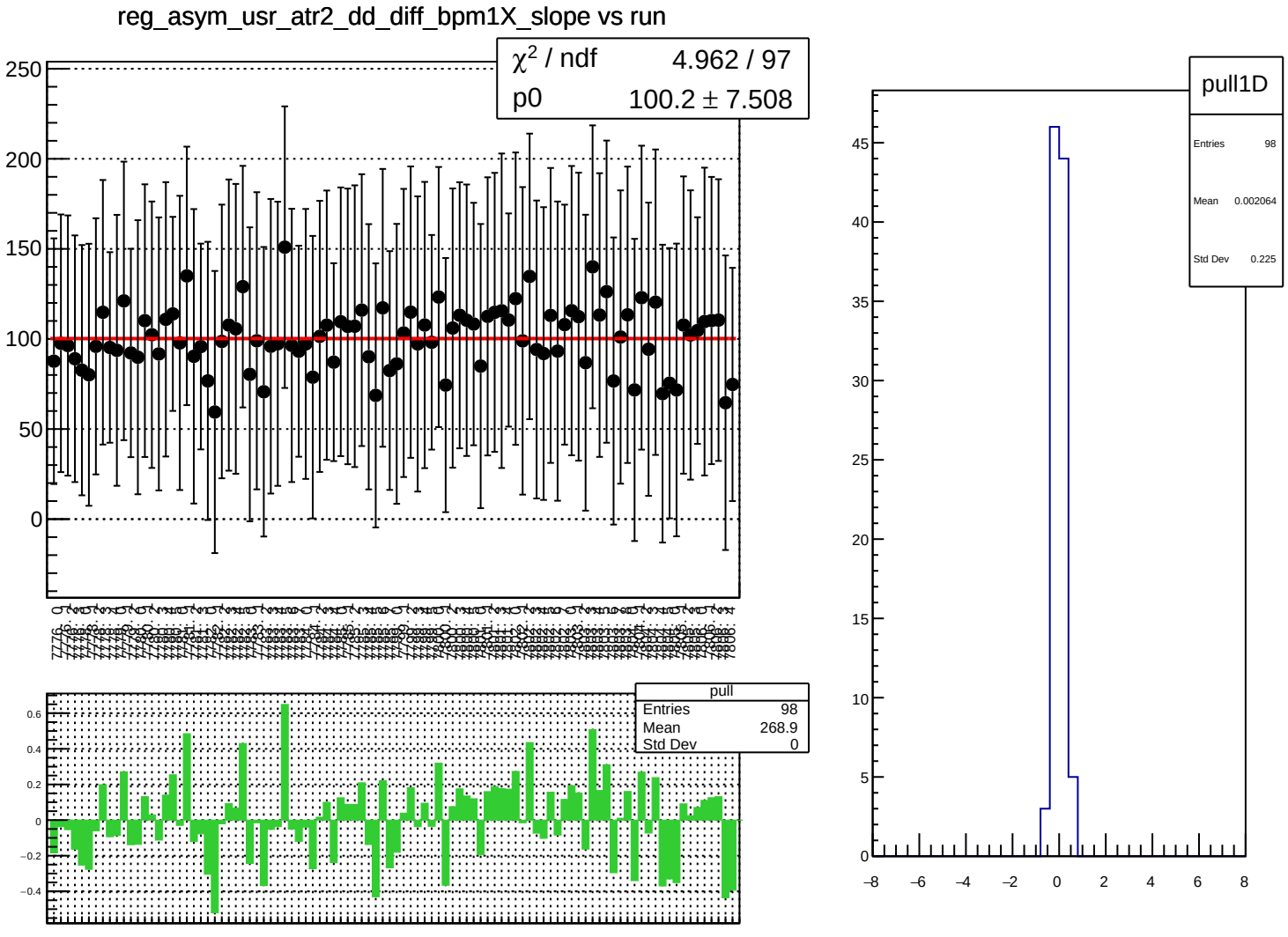

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.572 / 97
p0 59.78 ± 11.61
pull
Entries 98
Mean 334
Std Dev 0
pull1D
Entries 98
Mean −0.001903
Std Dev 0.216

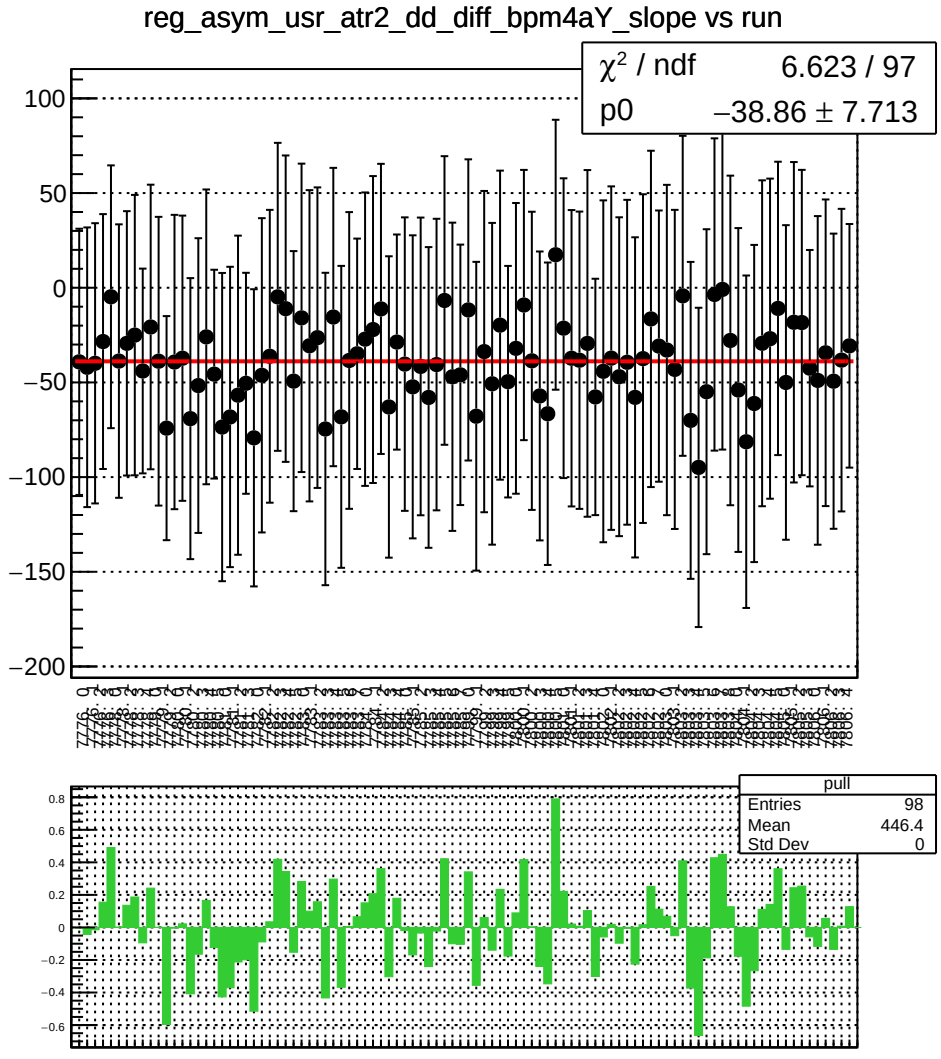

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.733 / 97
p0 204.4 ± 9.822
350
300
250
200
150
100
50
pull
Entries 98
Mean −122.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 98
Mean 0.0007977
Std Dev 0.1952
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

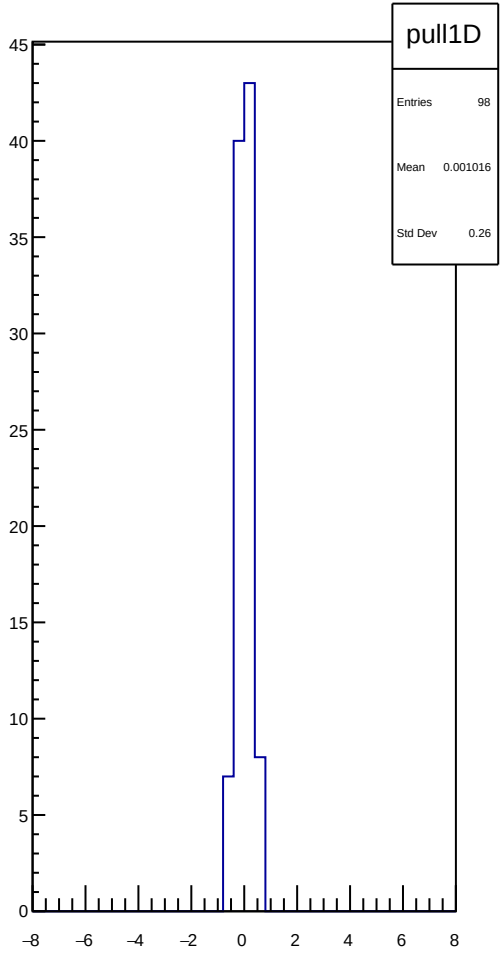

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.53 / 97
p0 8.857 ± 13.13
pull
Entries 98
Mean 177.2
Std Dev 0

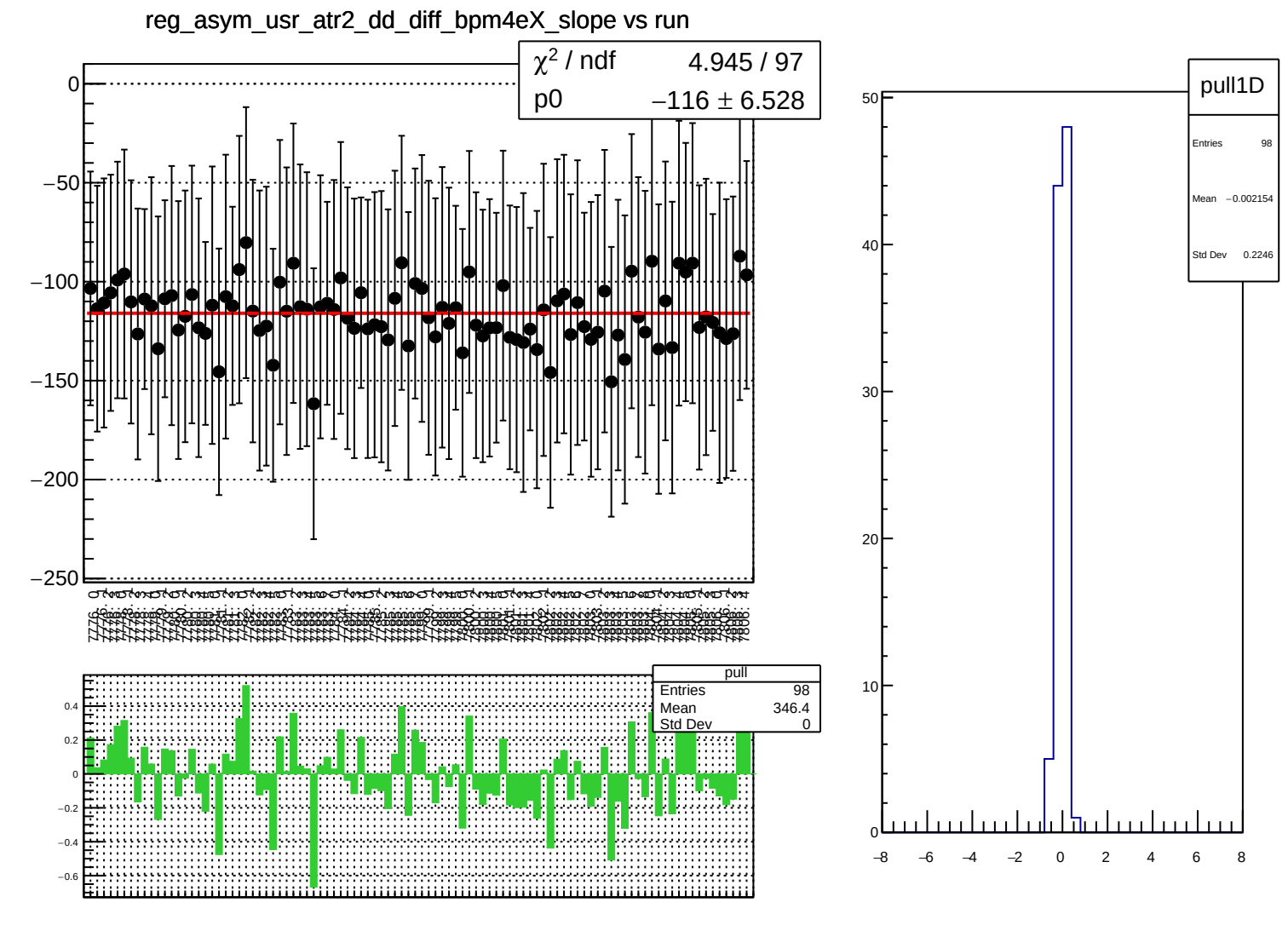

pull1D
Entries 98
Mean 0.001875
Std Dev 0.215

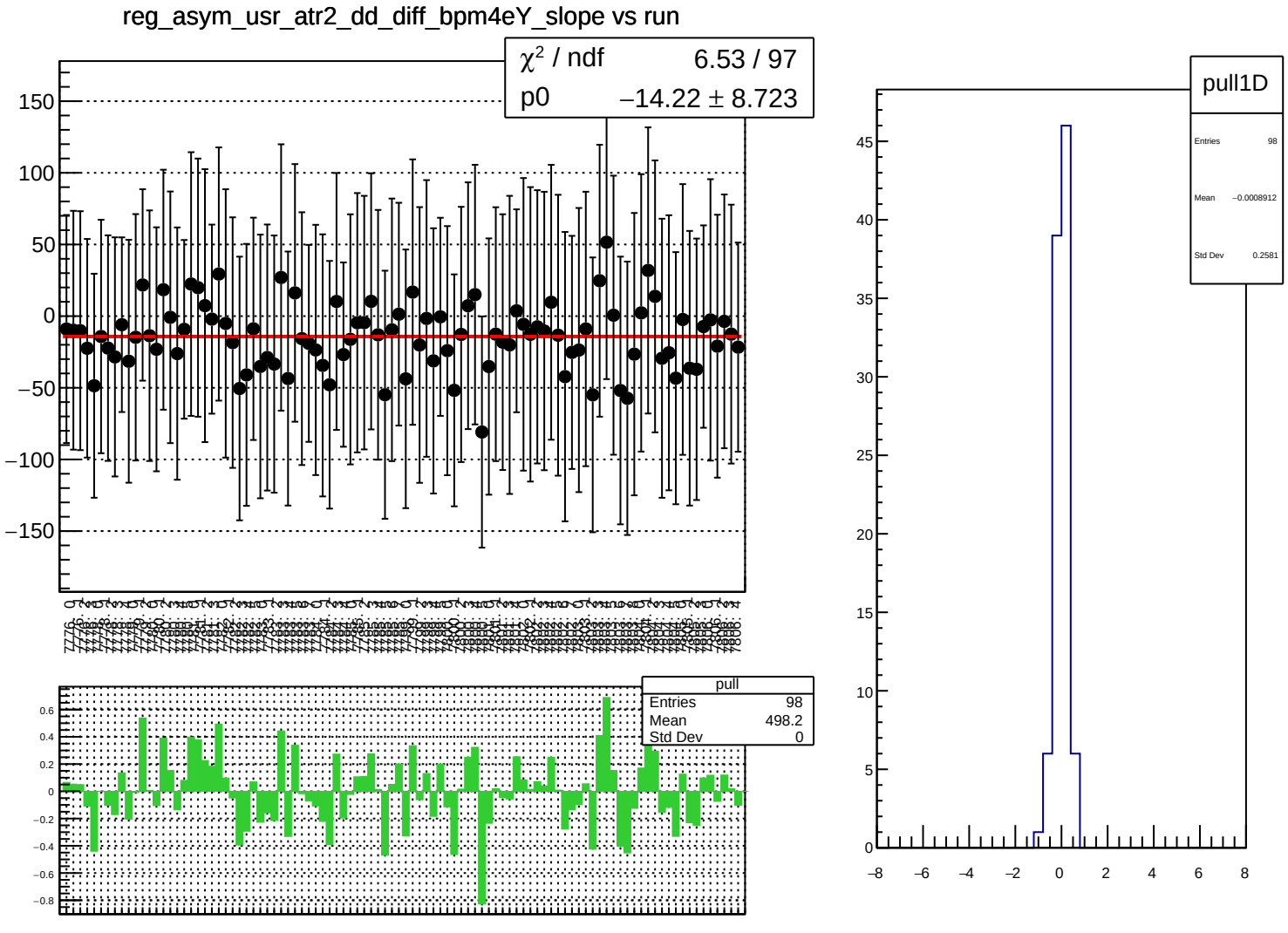

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 51.85 / 97
p0 −168.6 ± 0.4156
−160
−165
−170
−175
−180
−185
pull
Entries 98
Mean −3632
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 98
Mean −0.002846
Std Dev 0.7274
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

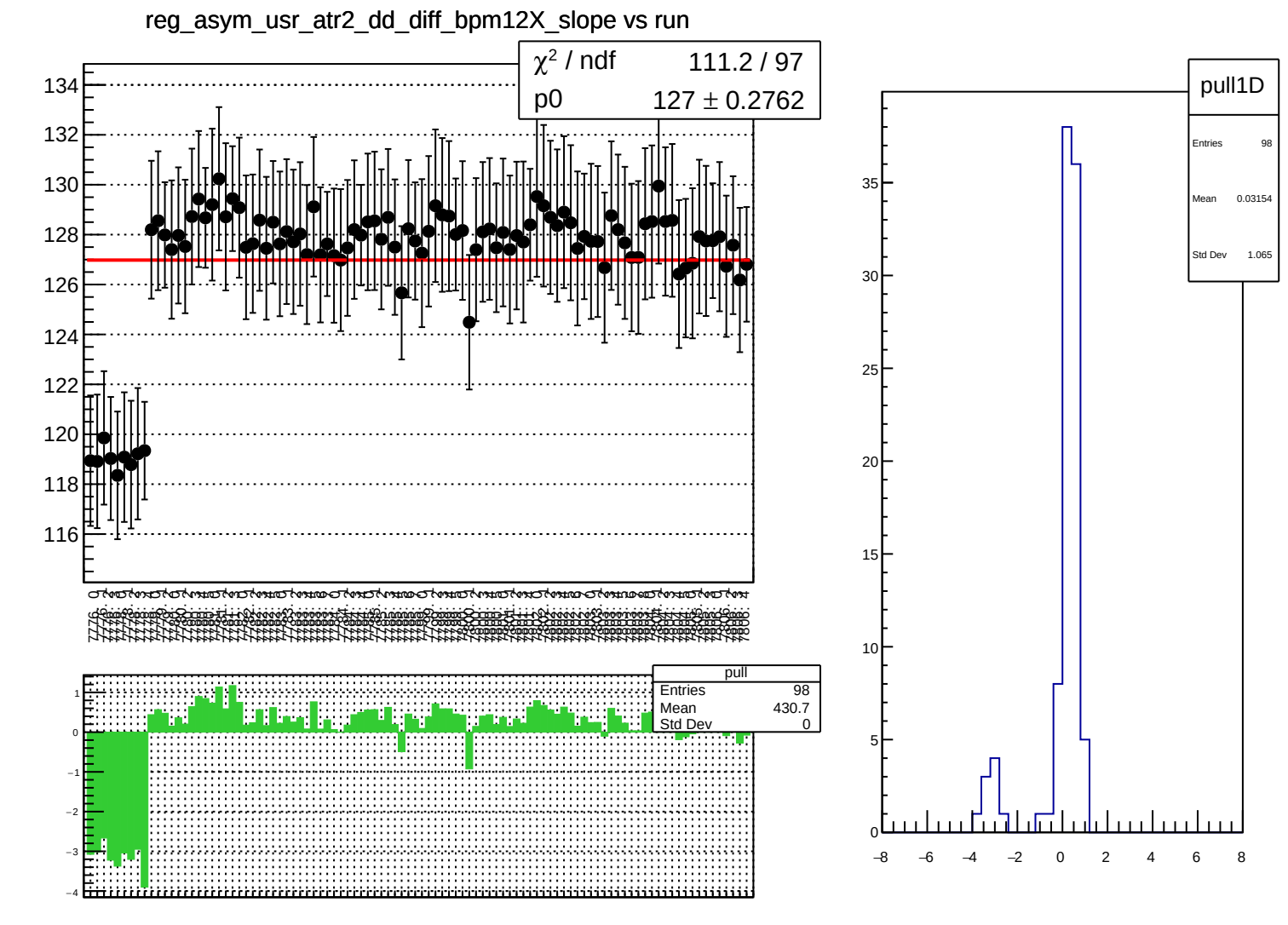

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 4.962 / 97
p0 100.2 ± 7.508
250
200
150
100
50
0
pull
Entries 98
Mean 268.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 98
Mean 0.002064
Std Dev 0.225
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

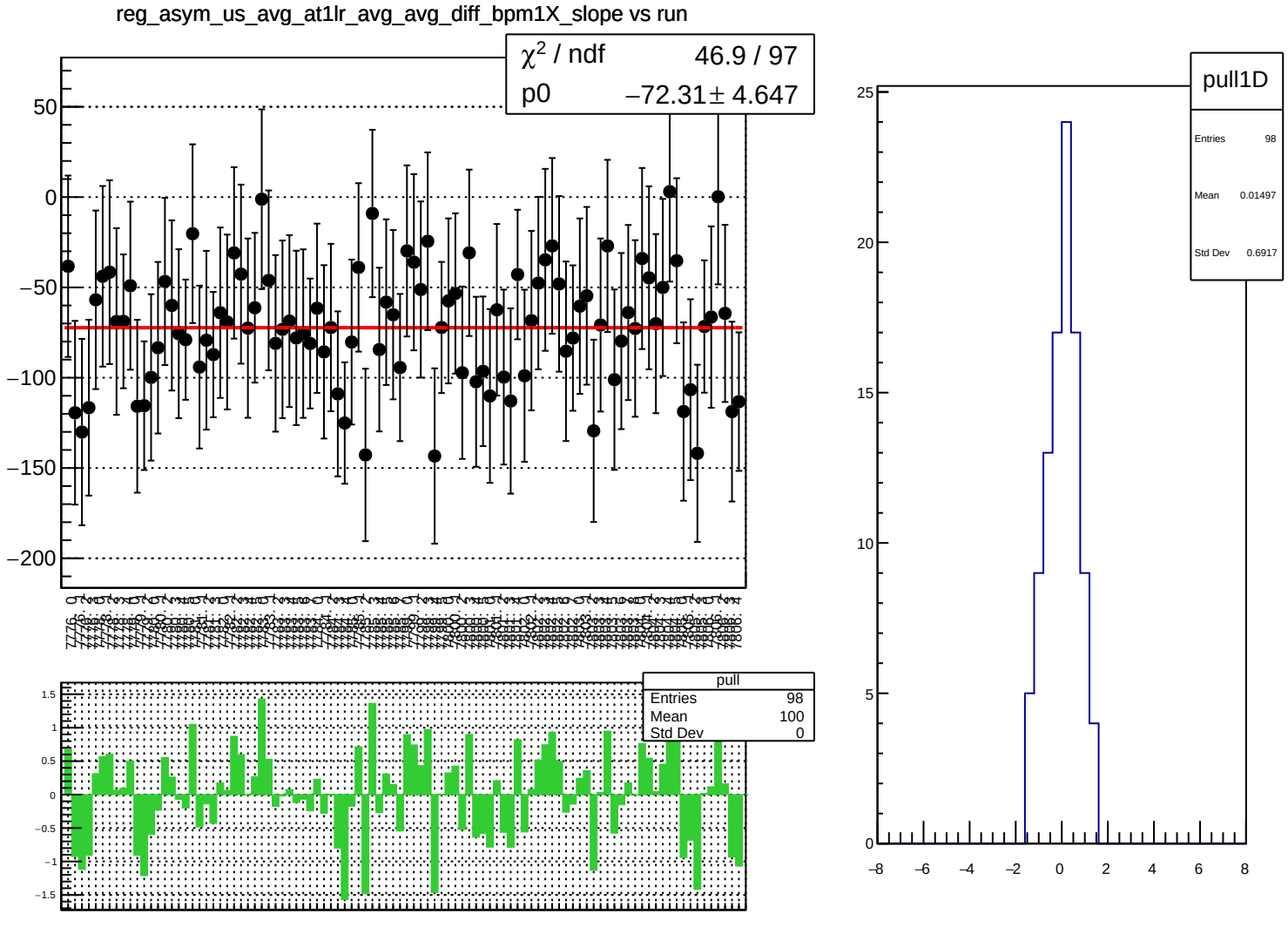

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.623 / 97
p0 −38.86 ± 7.713
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 446.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

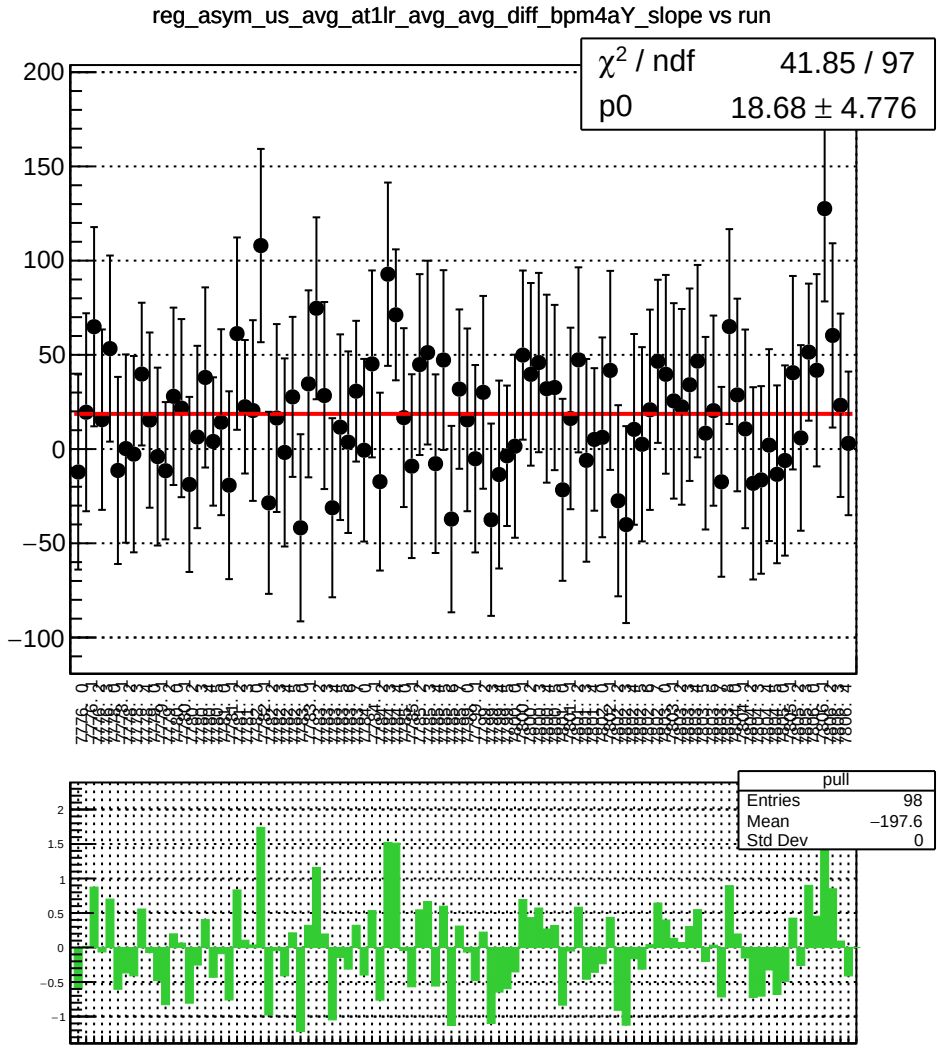

pull1D
Entries 98
Mean 0.001016
Std Dev 0.26
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

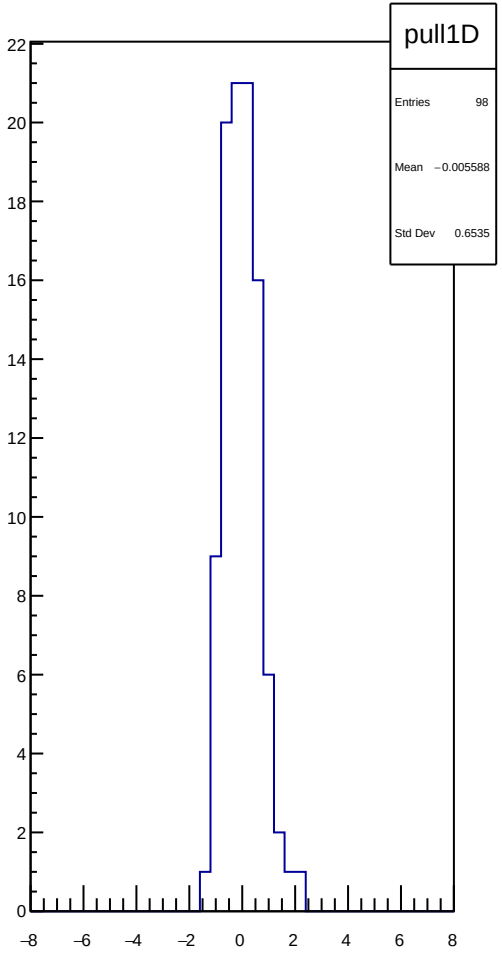

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.945 / 97
p0 −116 ± 6.528
0
−50
−100
−150
−200
−250
pull
Entries 98
Mean 346.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean −0.002154
Std Dev 0.2246
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

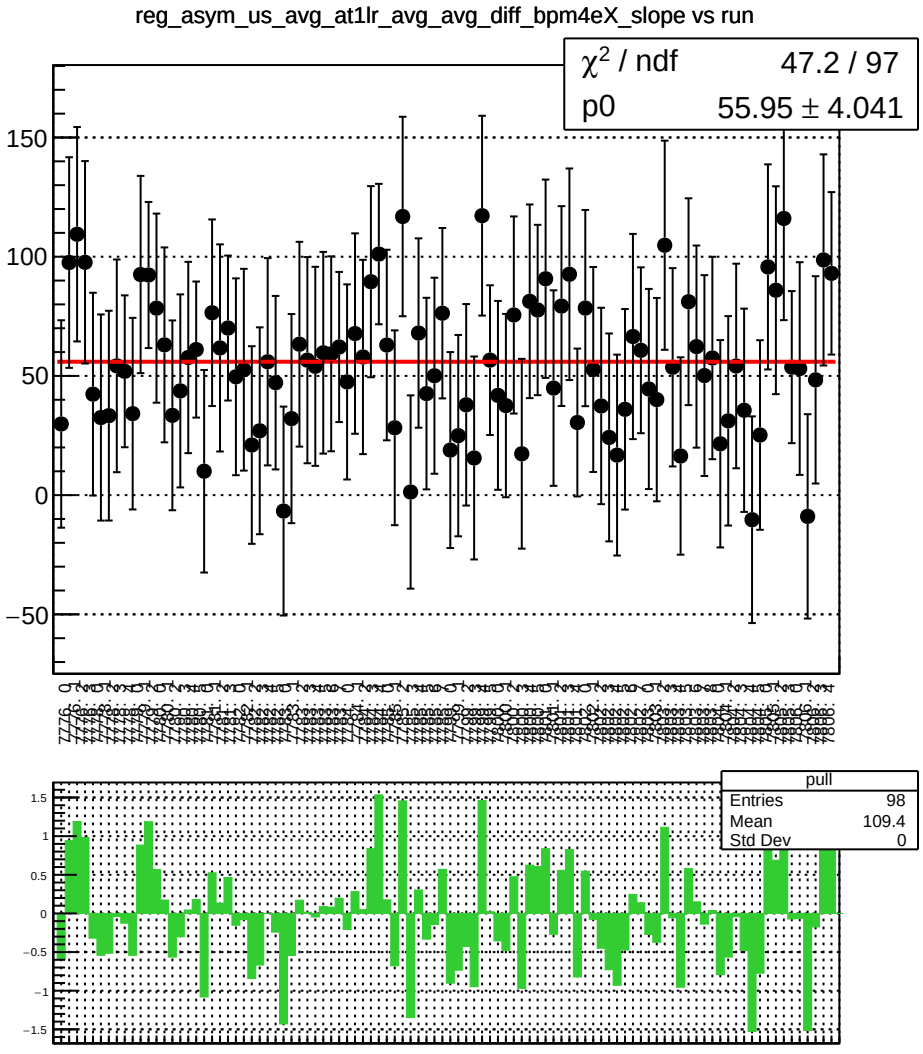

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.53 / 97
p0 −14.22 ± 8.723
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 498.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 98
Mean −0.0008912
Std Dev 0.2581
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

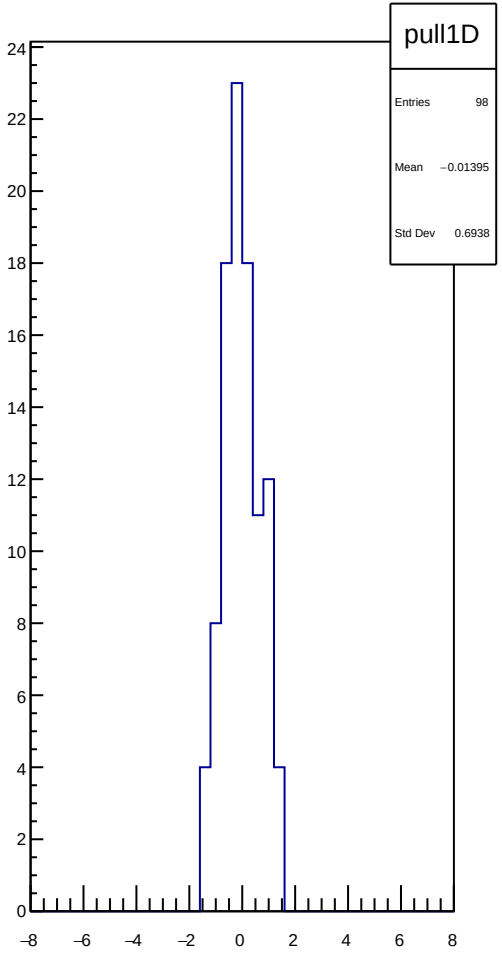

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 111.2 / 97
p0 127 ± 0.2762
134
132
130
128
126
124
122
120
118
116
pull
Entries 98
Mean 430.7
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 98
Mean 0.03154
Std Dev 1.065
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

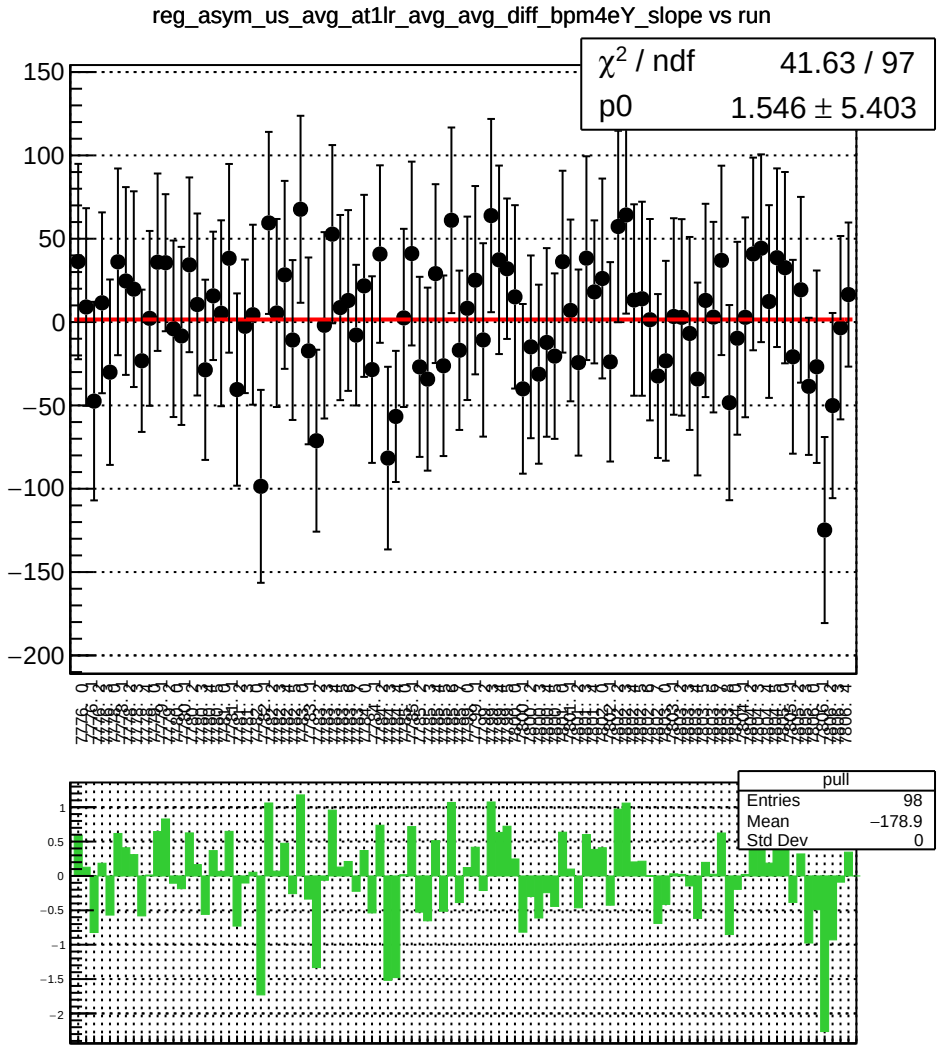

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 46.9 / 97
p0 −72.31 ± 4.647
50
0
−50
−100
−150
−200
pull
Entries 98
Mean 100
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.01497
Std Dev 0.6917
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

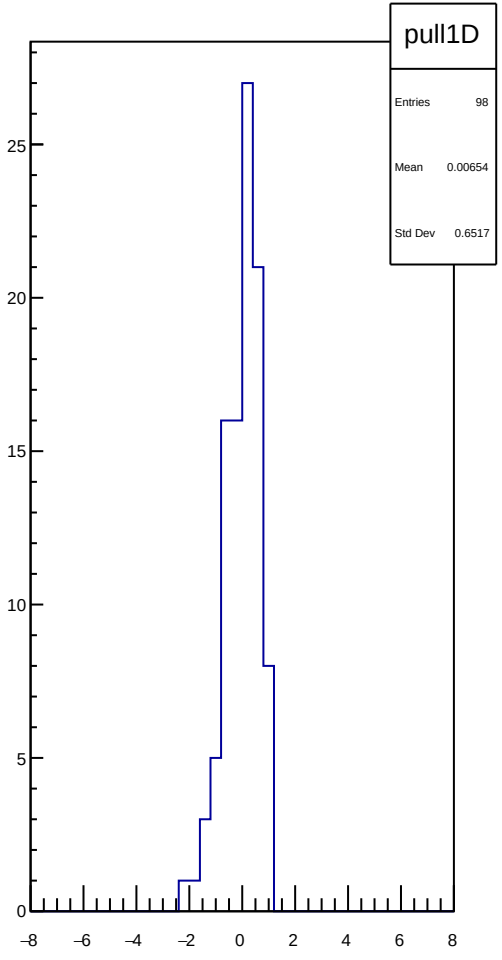

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.85 / 97
p0 18.68 ± 4.776
pull
Entries 98
Mean −197.6
Std Dev 0

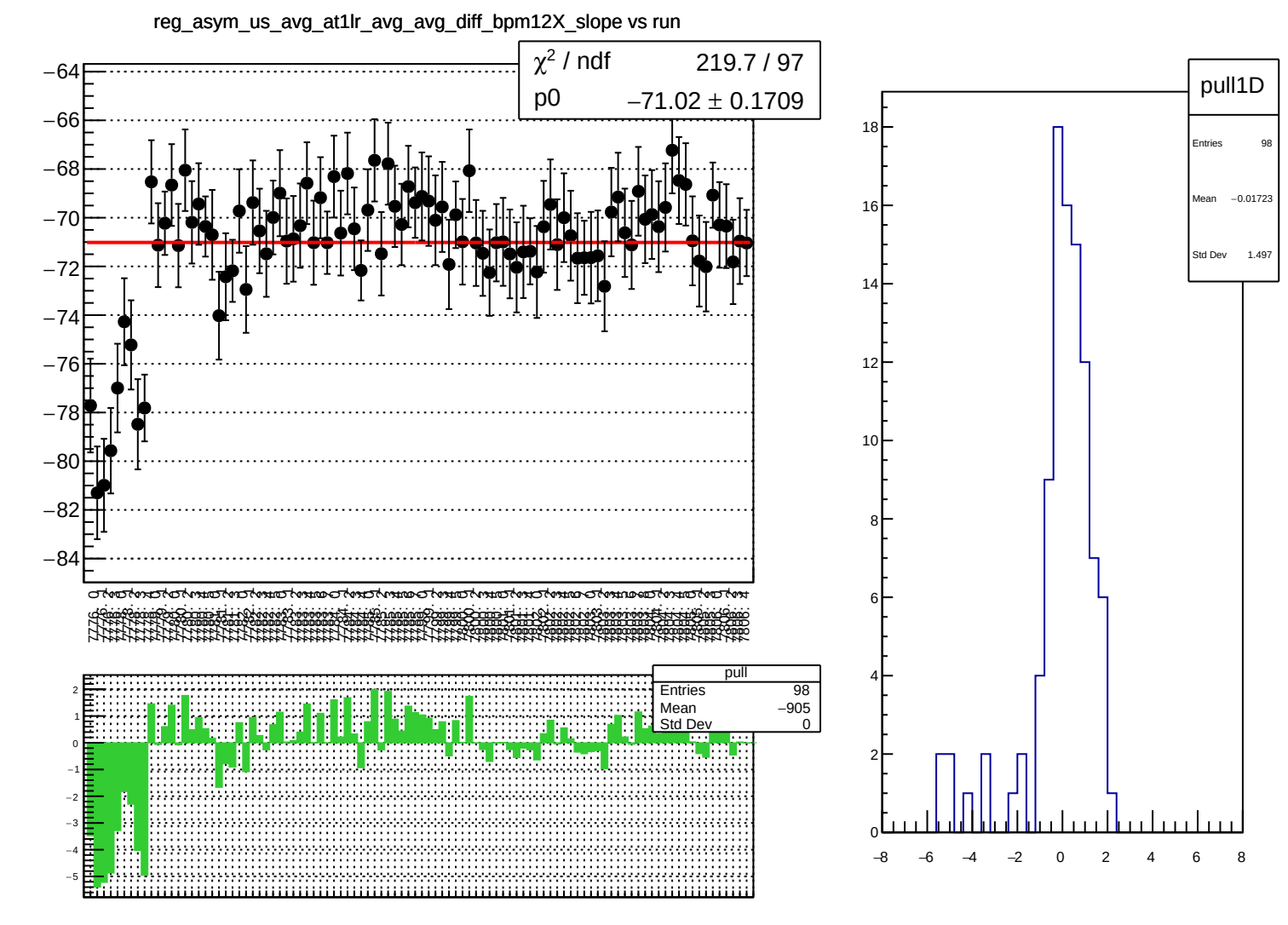

pull1D
Entries 98
Mean −0.005588
Std Dev 0.6535

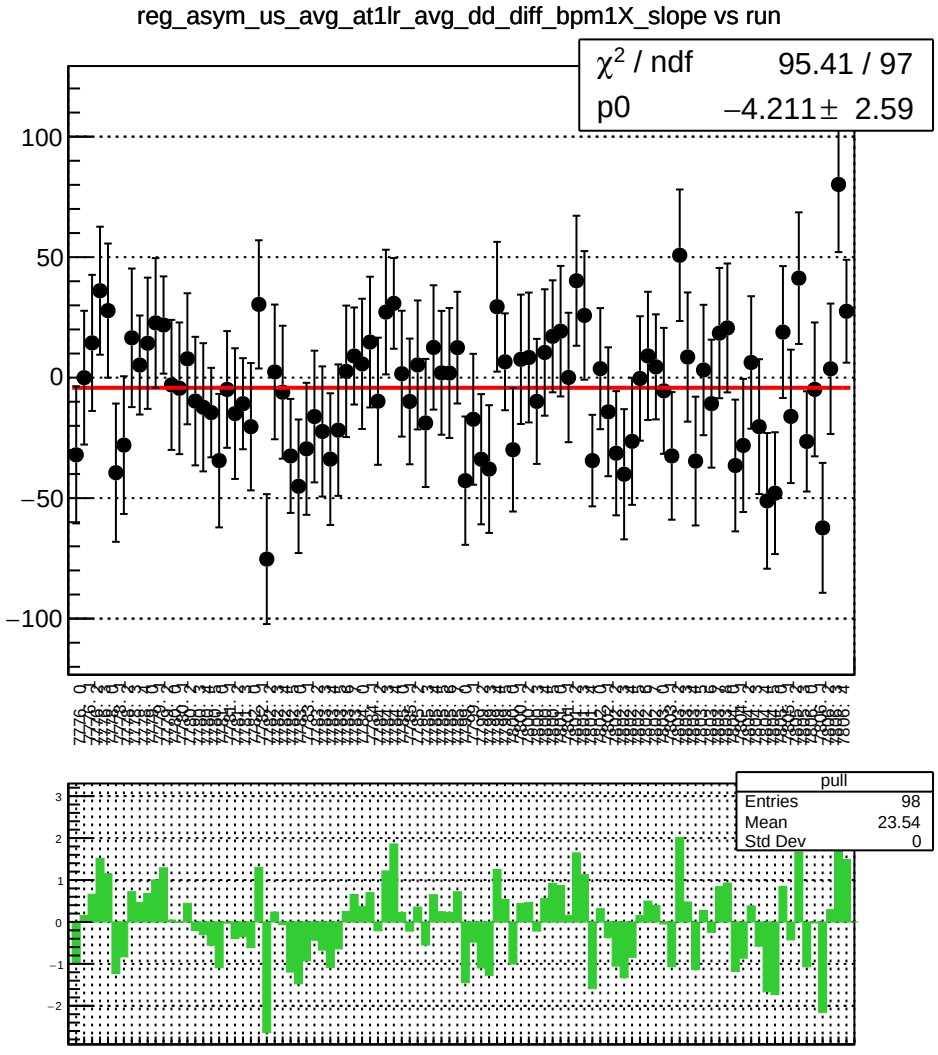

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.2 / 97
p0 55.95 ± 4.041
150
100
50
0
−50
pull
Entries 98
Mean 109.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

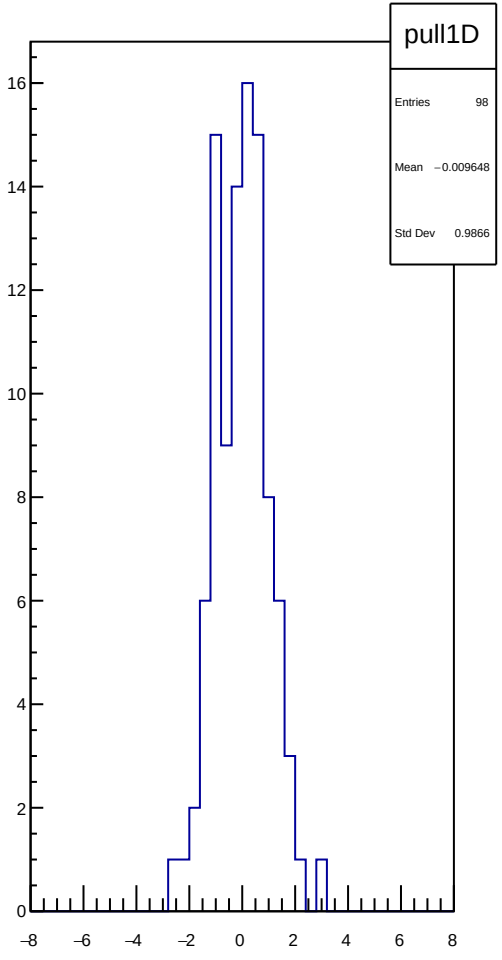

pull1D
Entries 98
Mean −0.01395
Std Dev 0.6938
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

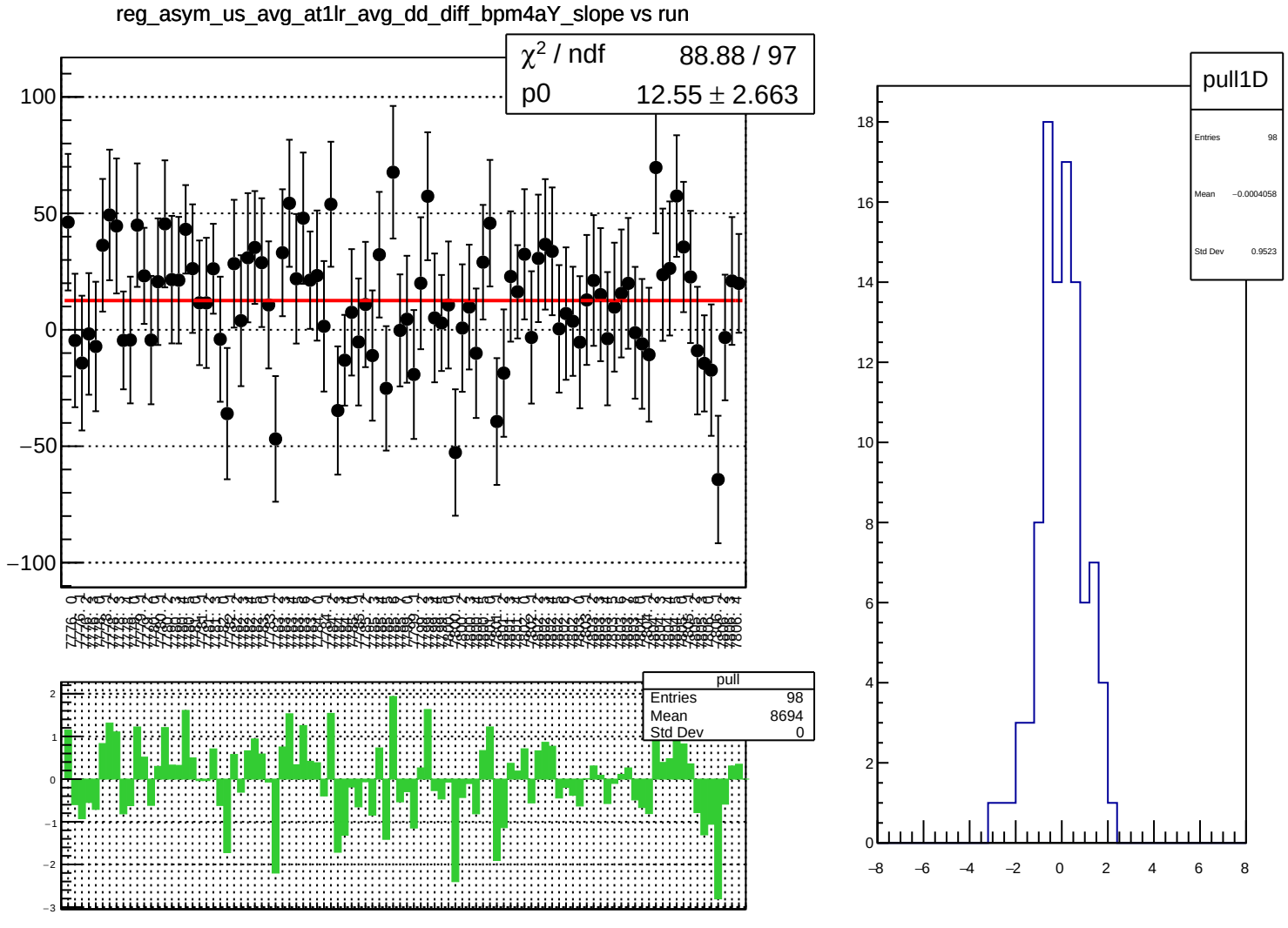

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.63 / 97
p0 1.546 ± 5.403
150
100
50
0
−50
−100
−150
−200
pull
Entries 98
Mean −178.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

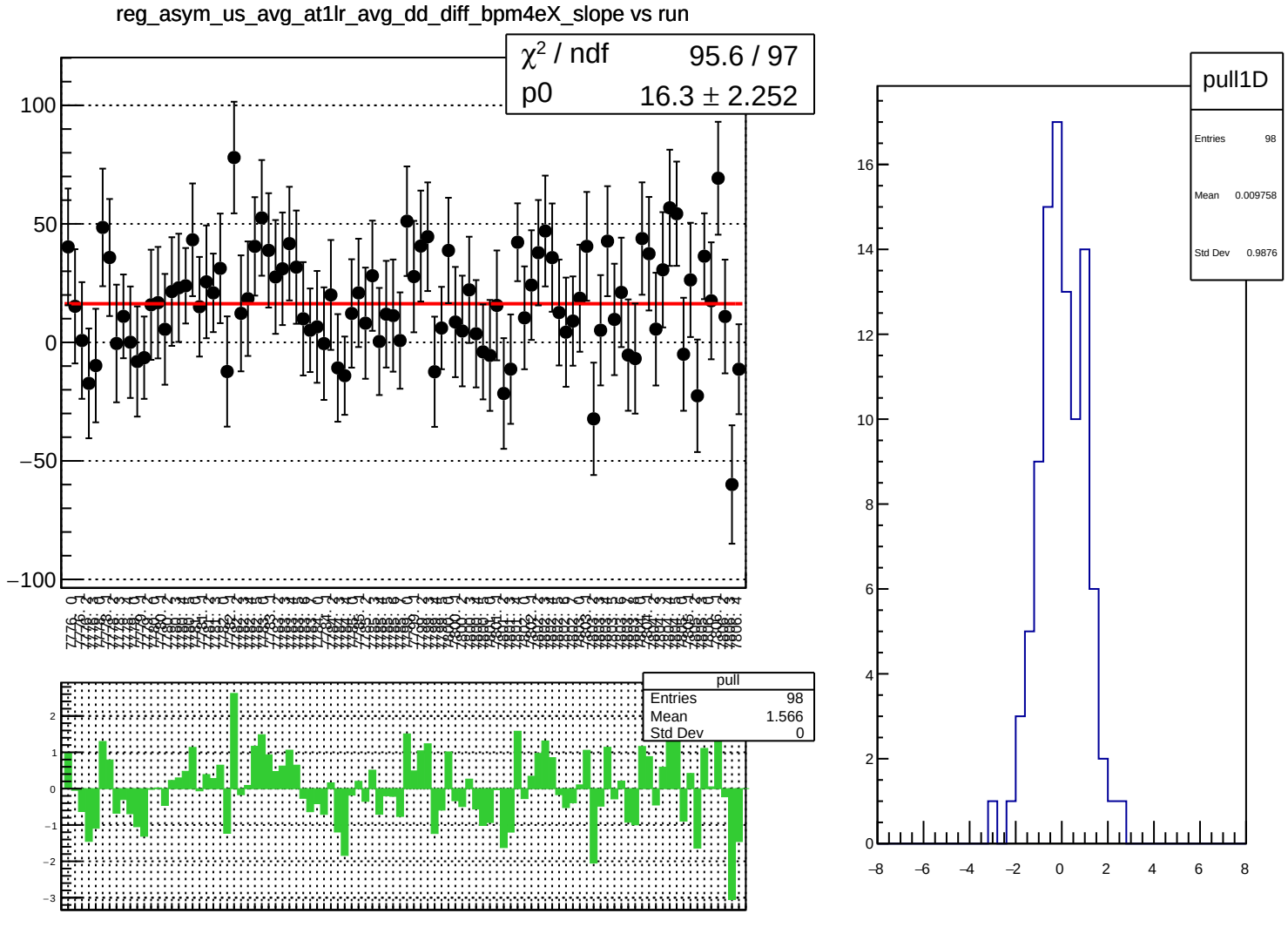

pull1D
Entries 98
Mean 0.00654
Std Dev 0.6517
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

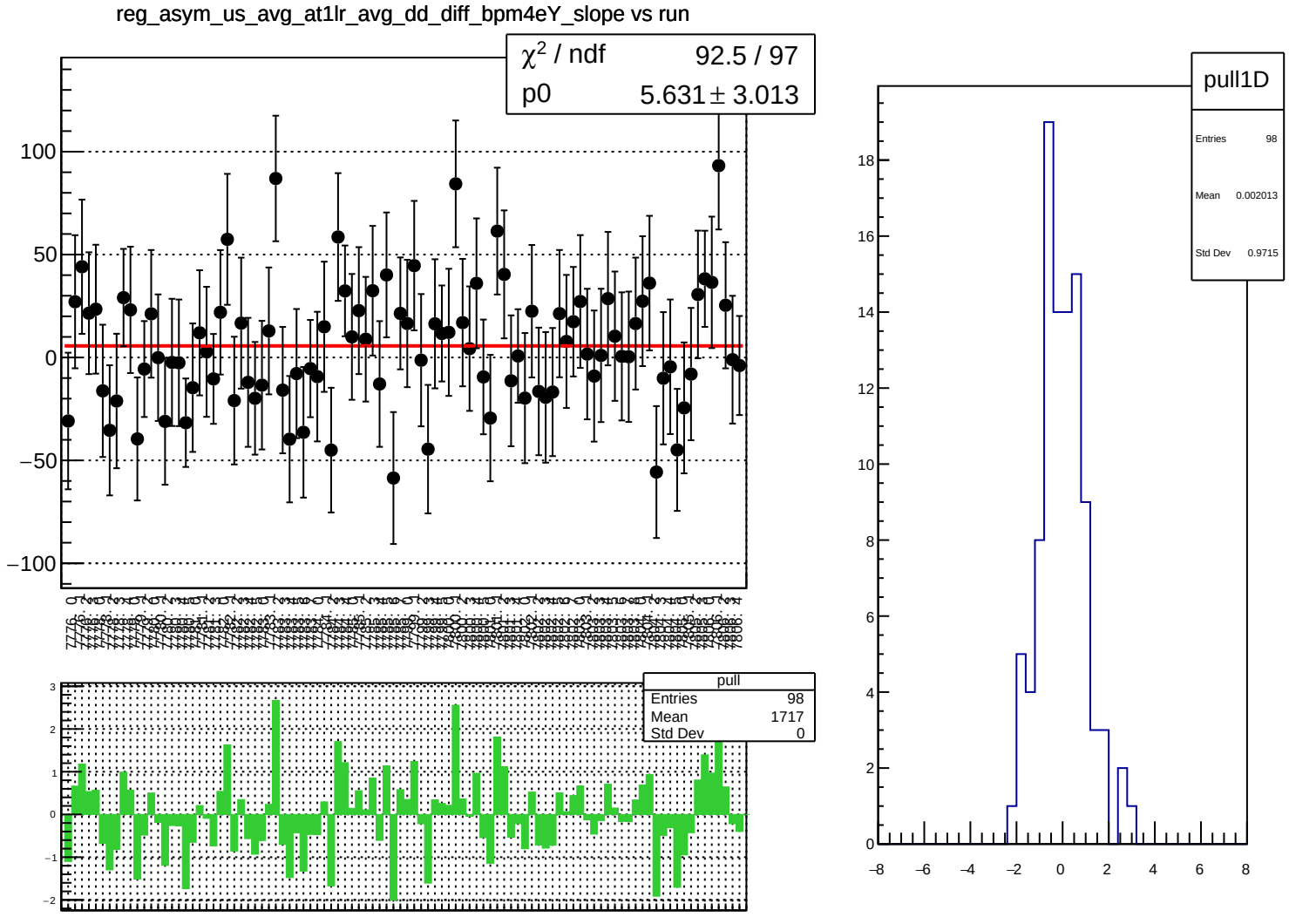

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 219.7 / 97
p0 −71.02 ± 0.1709
pull
Entries 98
Mean −905
Std Dev 0
pull1D
Entries 98
Mean −0.01723
Std Dev 1.497

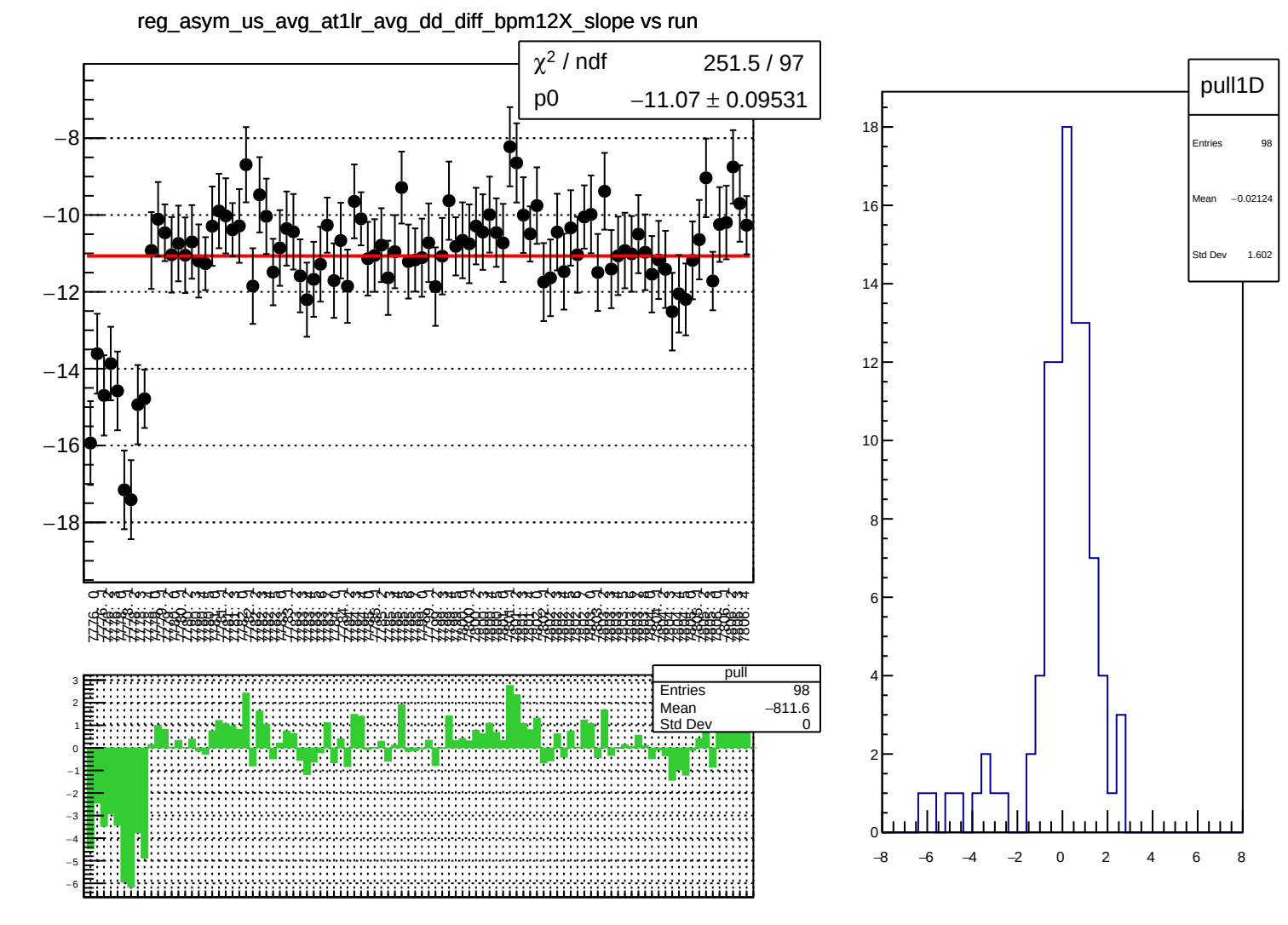

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 95.41 / 97
p0 −4.211 ± 2.59
100
50
0
−50
−100
pull
Entries 98
Mean 23.54
Std Dev 0
3
2
1
0
−1
−2

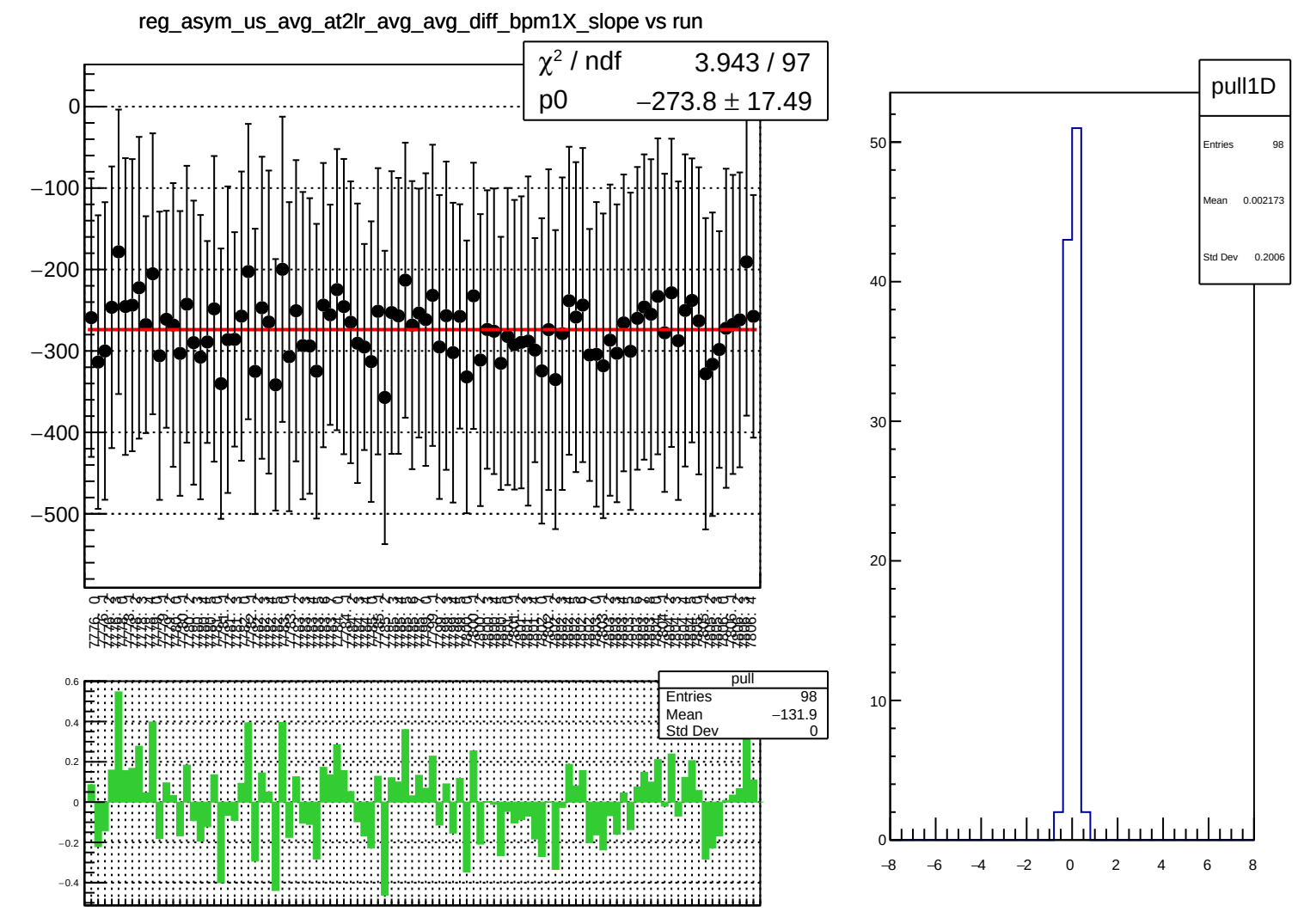

pull1D
Entries 98
Mean −0.009648
Std Dev 0.9866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

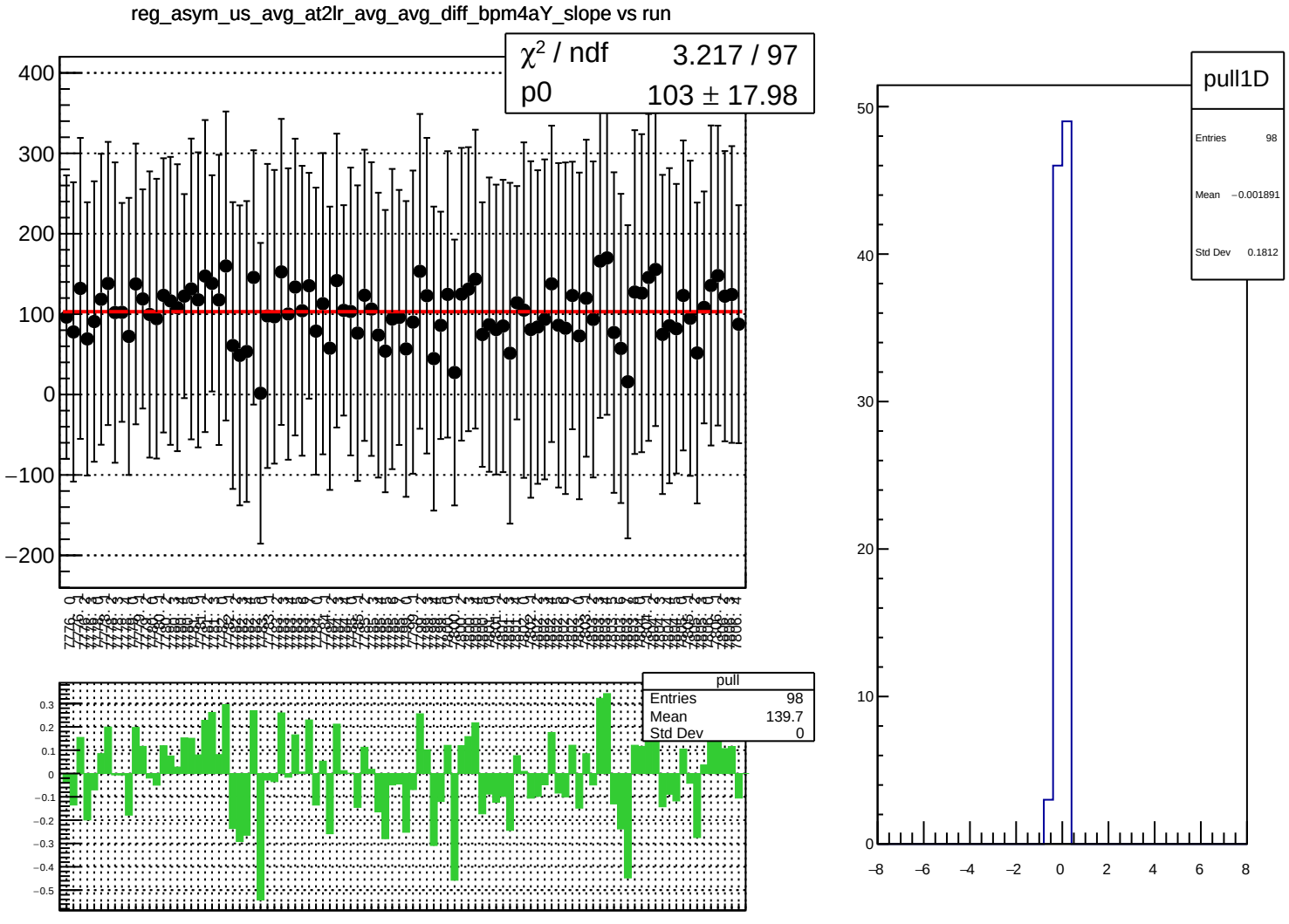

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.88 / 97
p0 12.55 ± 2.663
100
50
0
−50
−100
pull
Entries 98
Mean 8694
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean −0.0004058
Std Dev 0.9523
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

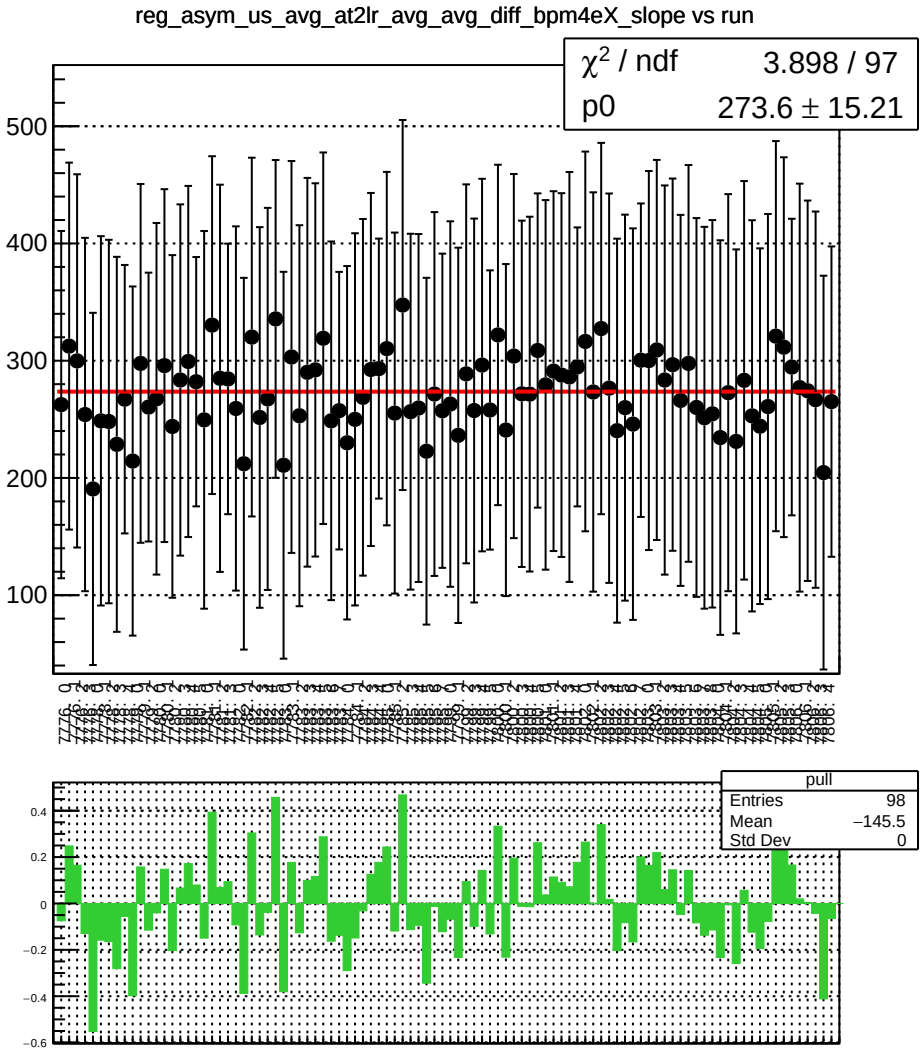

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 95.6 / 97
p0 16.3 ± 2.252
100
50
0
−50
−100
pull
Entries 98
Mean 1.566
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 98
Mean 0.009758
Std Dev 0.9876
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

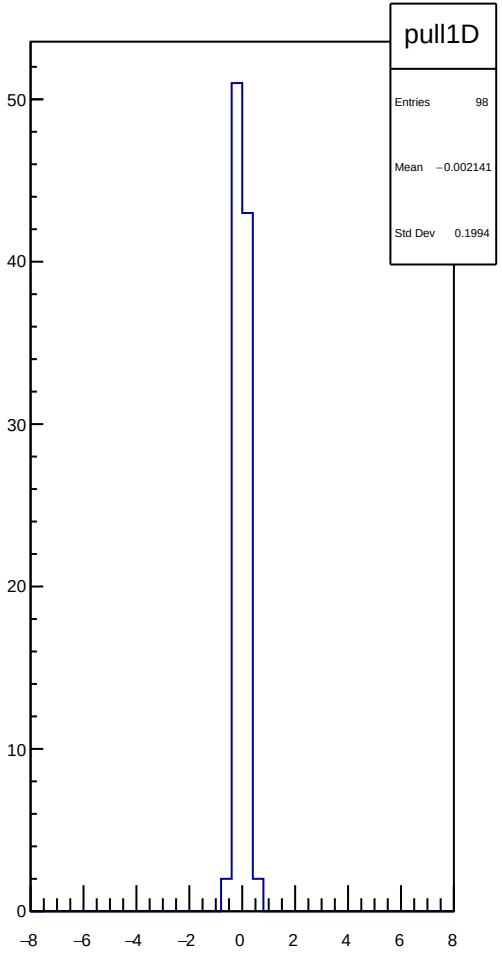

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.5 / 97
p0 5.631 ± 3.013
100
50
0
−50
−100
pull
Entries 98
Mean 1717
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 98
Mean 0.002013
Std Dev 0.9715
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

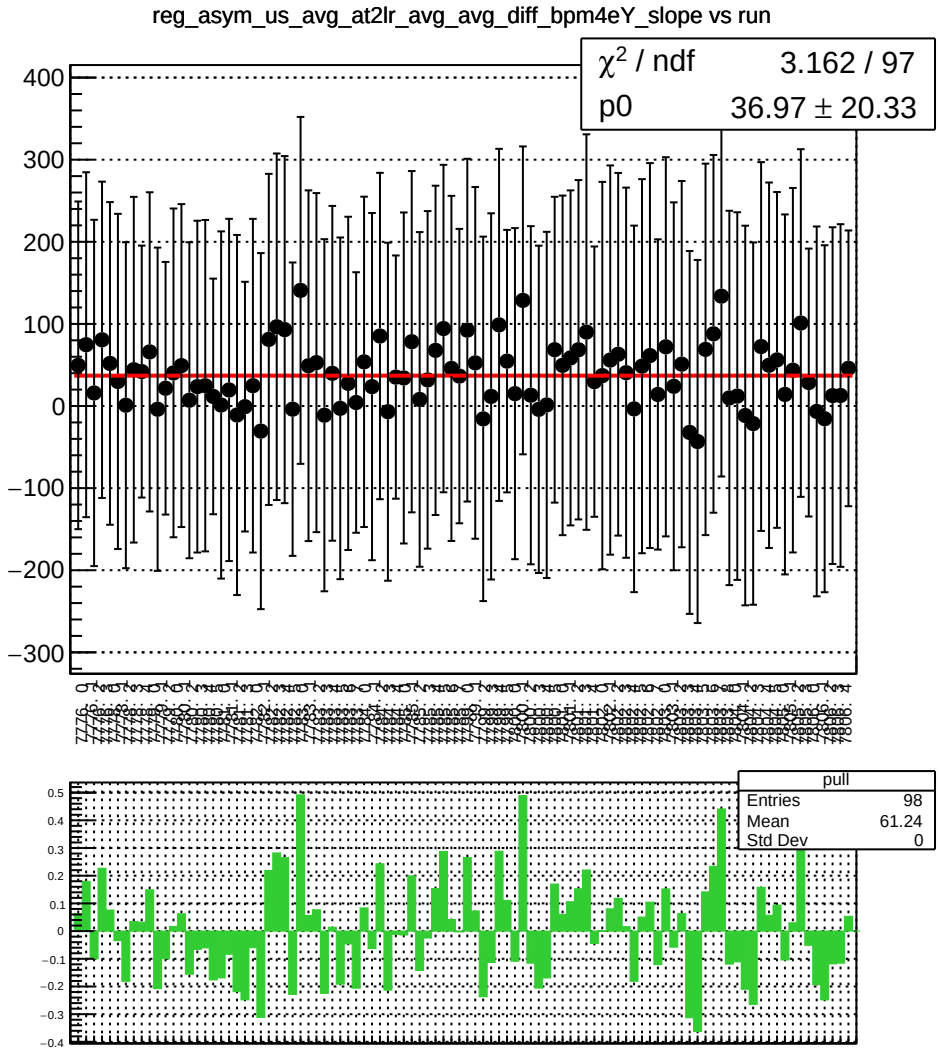

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 251.5 / 97
p0 −11.07 ± 0.09531
pull
Entries 98
Mean −811.6
Std Dev 0
pull1D
Entries 98
Mean −0.02124
Std Dev 1.602

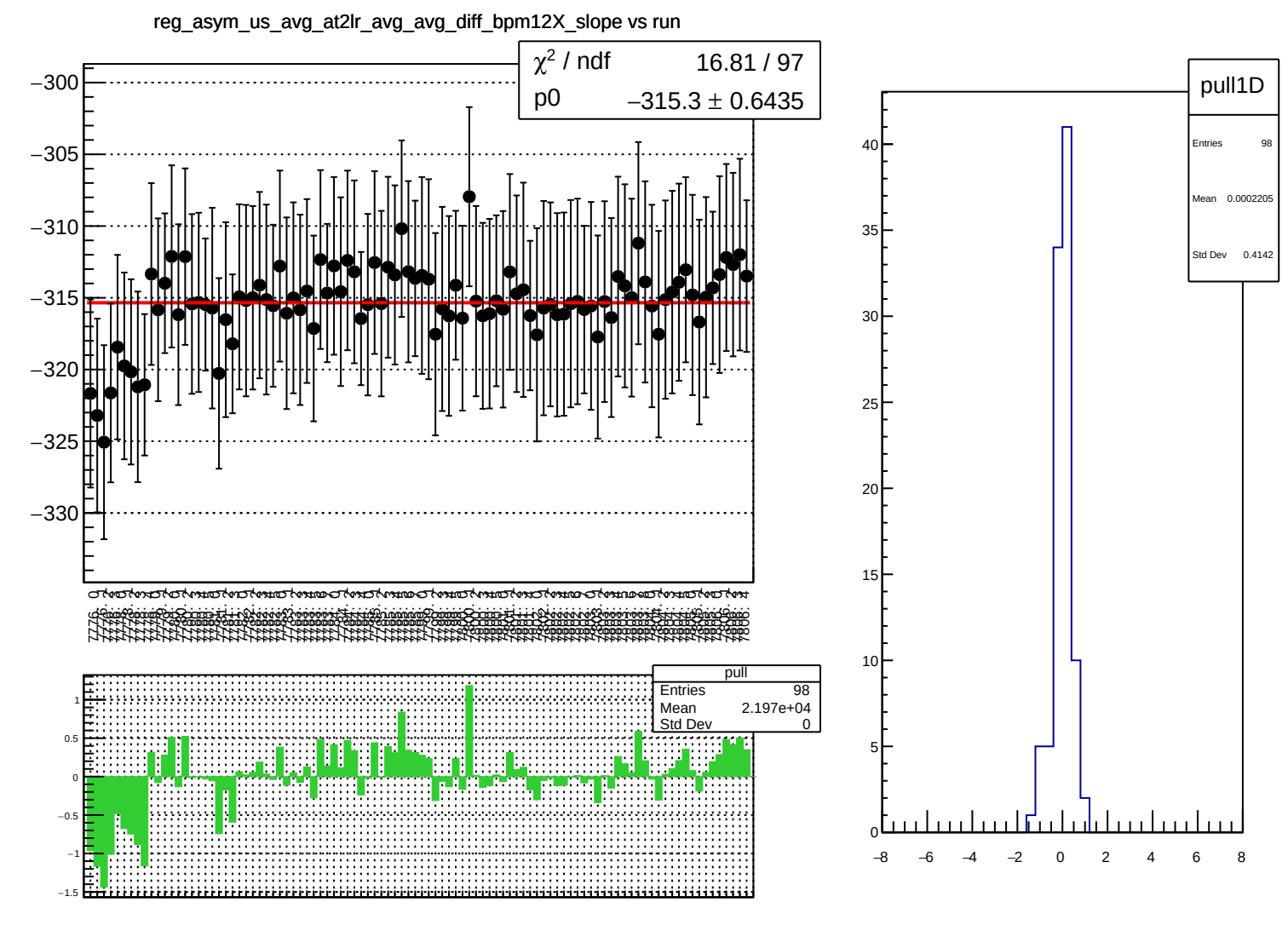

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.943 / 97
p0 −273.8 ± 17.49
0
−100
−200
−300
−400
−500
pull
Entries 98
Mean −131.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 98
Mean 0.002173
Std Dev 0.2006
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

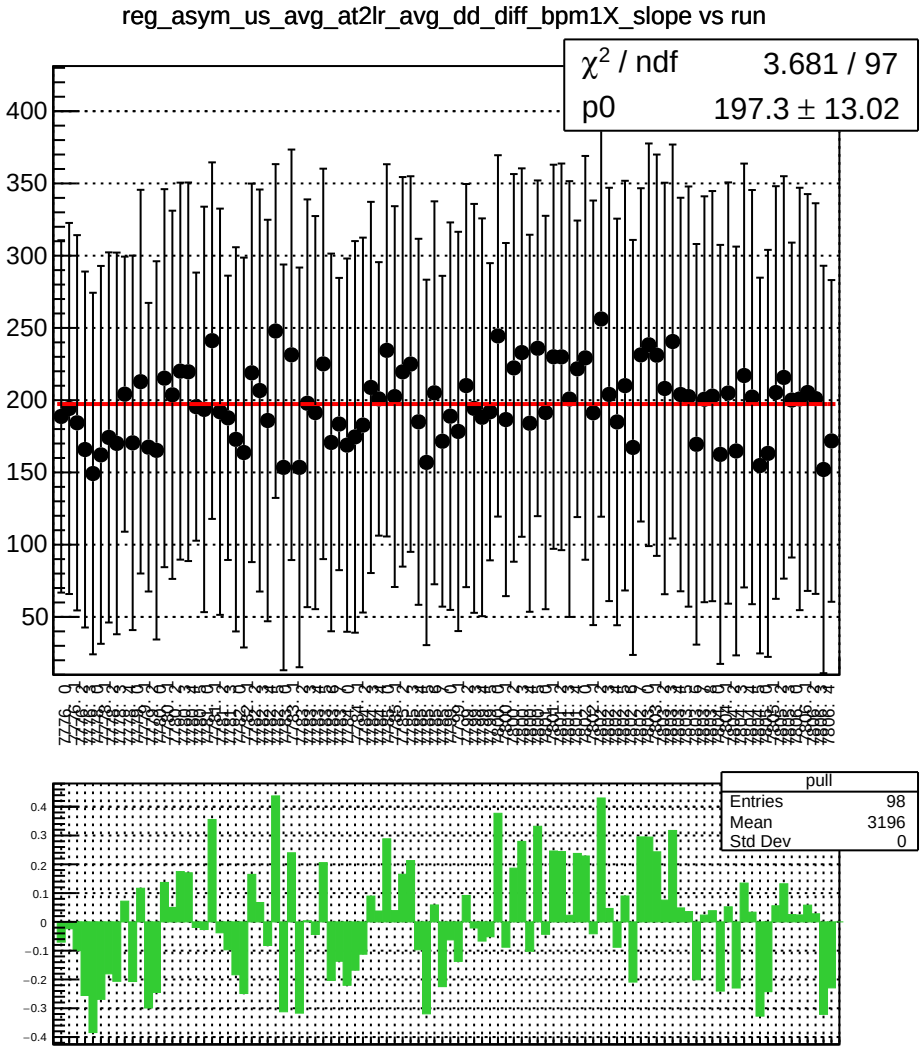

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.217 / 97
p0 103 ± 17.98
pull
Entries 98
Mean 139.7
Std Dev 0
pull1D
Entries 98
Mean −0.001891
Std Dev 0.1812

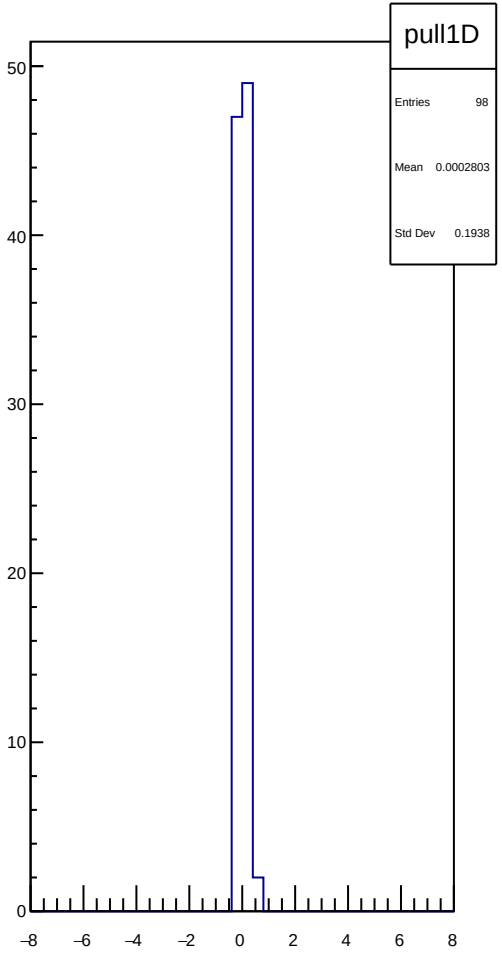

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.898 / 97
p0 273.6 ± 15.21
500
400
300
200
100
pull
Entries 98
Mean −145.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

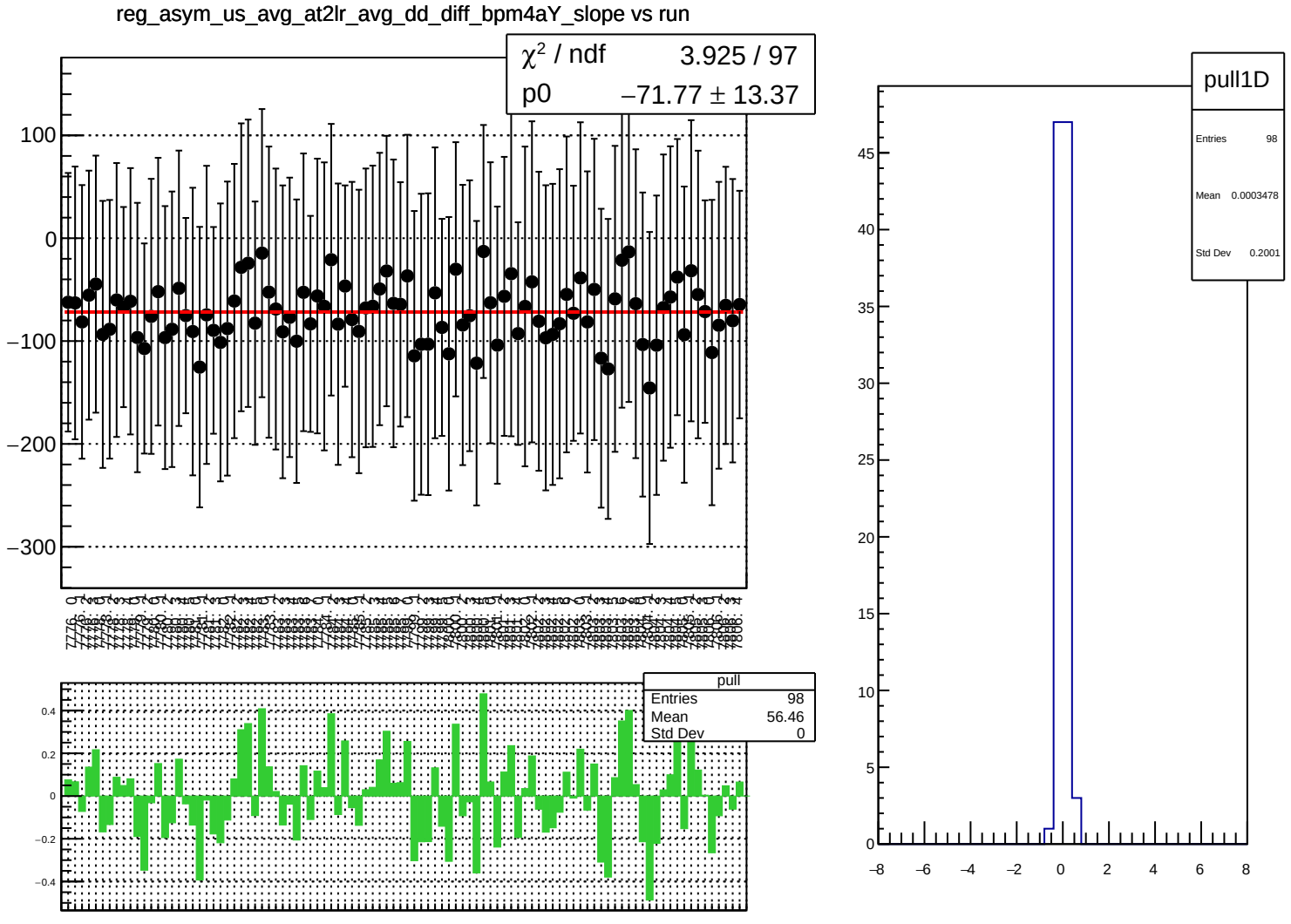

pull1D
Entries 98
Mean −0.002141
Std Dev 0.1994
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

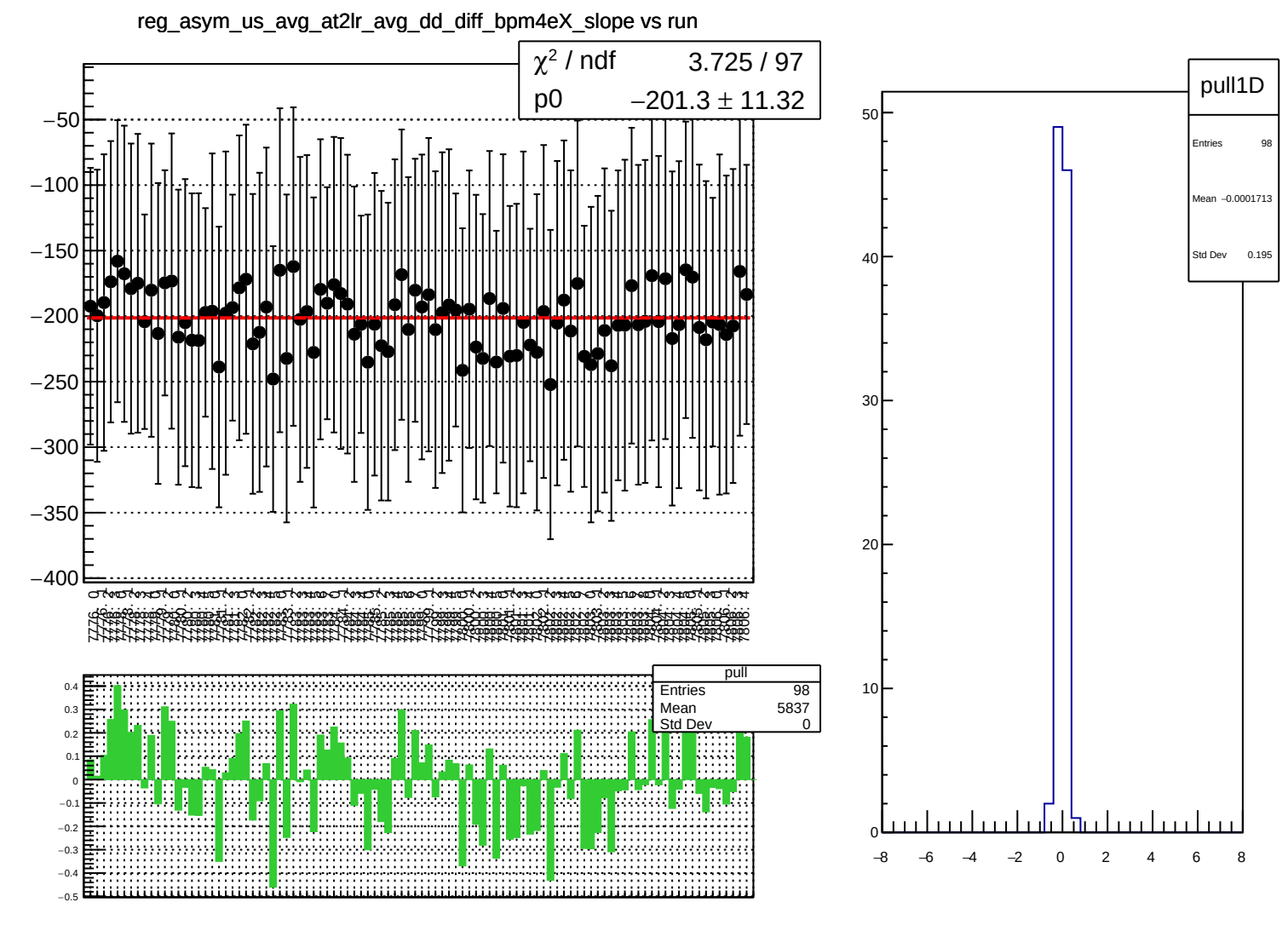

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.162 / 97
p0 36.97 ± 20.33
pull
Entries 98
Mean 61.24
Std Dev 0
pull1D
Entries 98
Mean 0.001861
Std Dev 0.1796

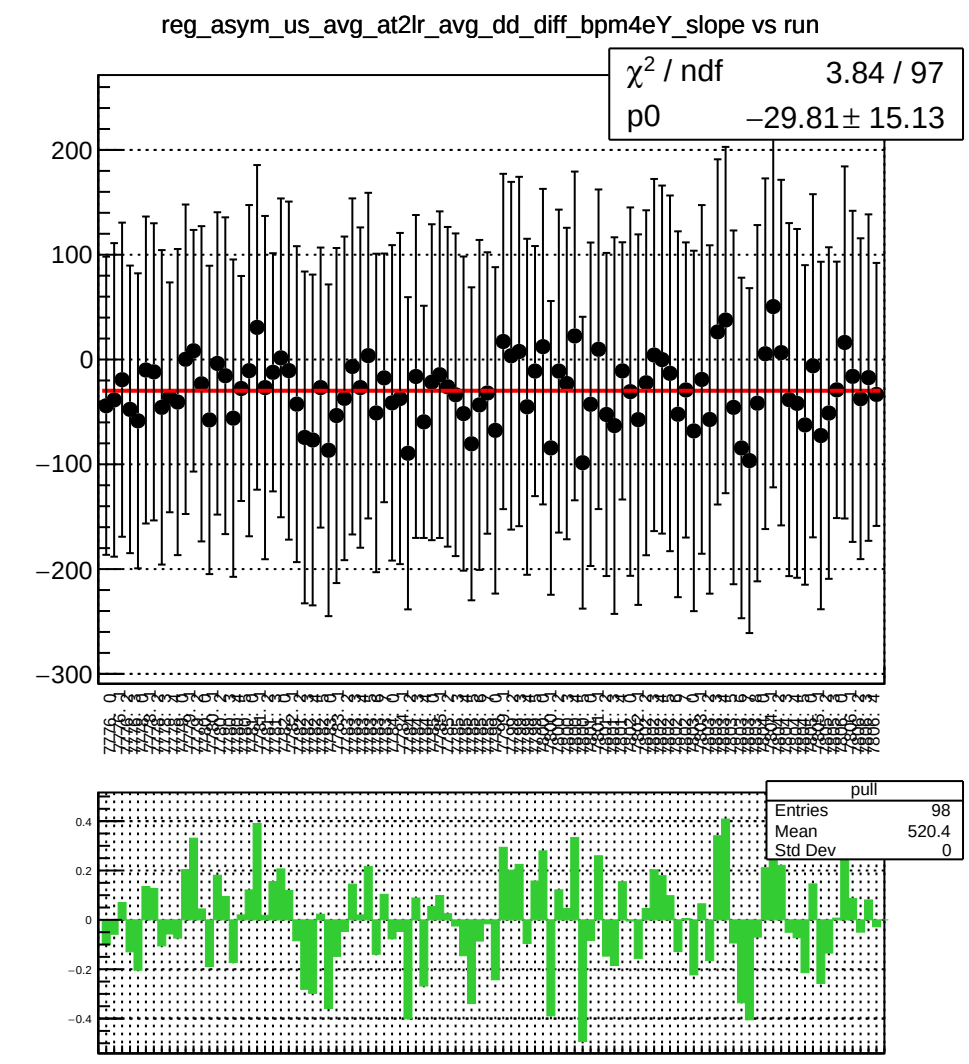

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 16.81 / 97
p0 −315.3 ± 0.6435
−300
−305
−310
−315
−320
−325
−330
pull
Entries 98
Mean 2.197e+04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.0002205
Std Dev 0.4142
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

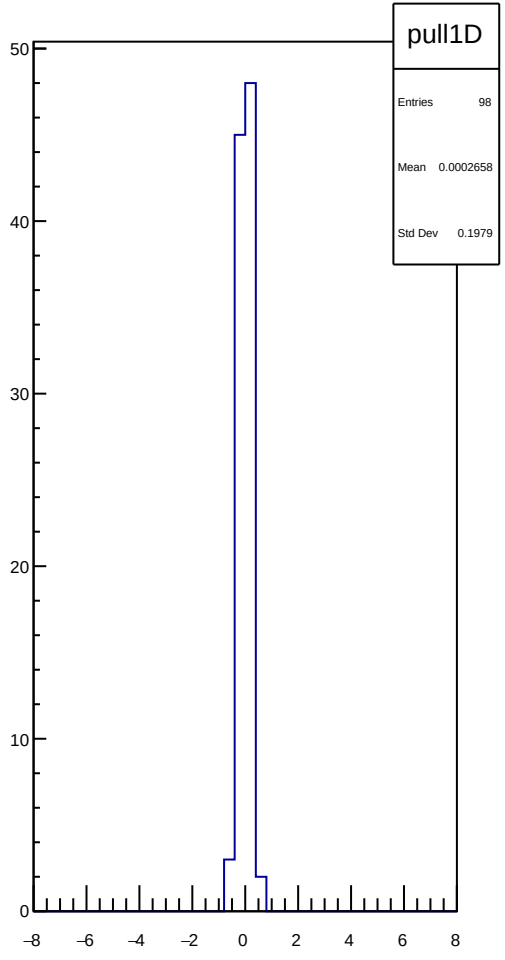

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 3.681 / 97
p0 197.3 ± 13.02
400
350
300
250
200
150
100
50
pull
Entries 98
Mean 3196
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

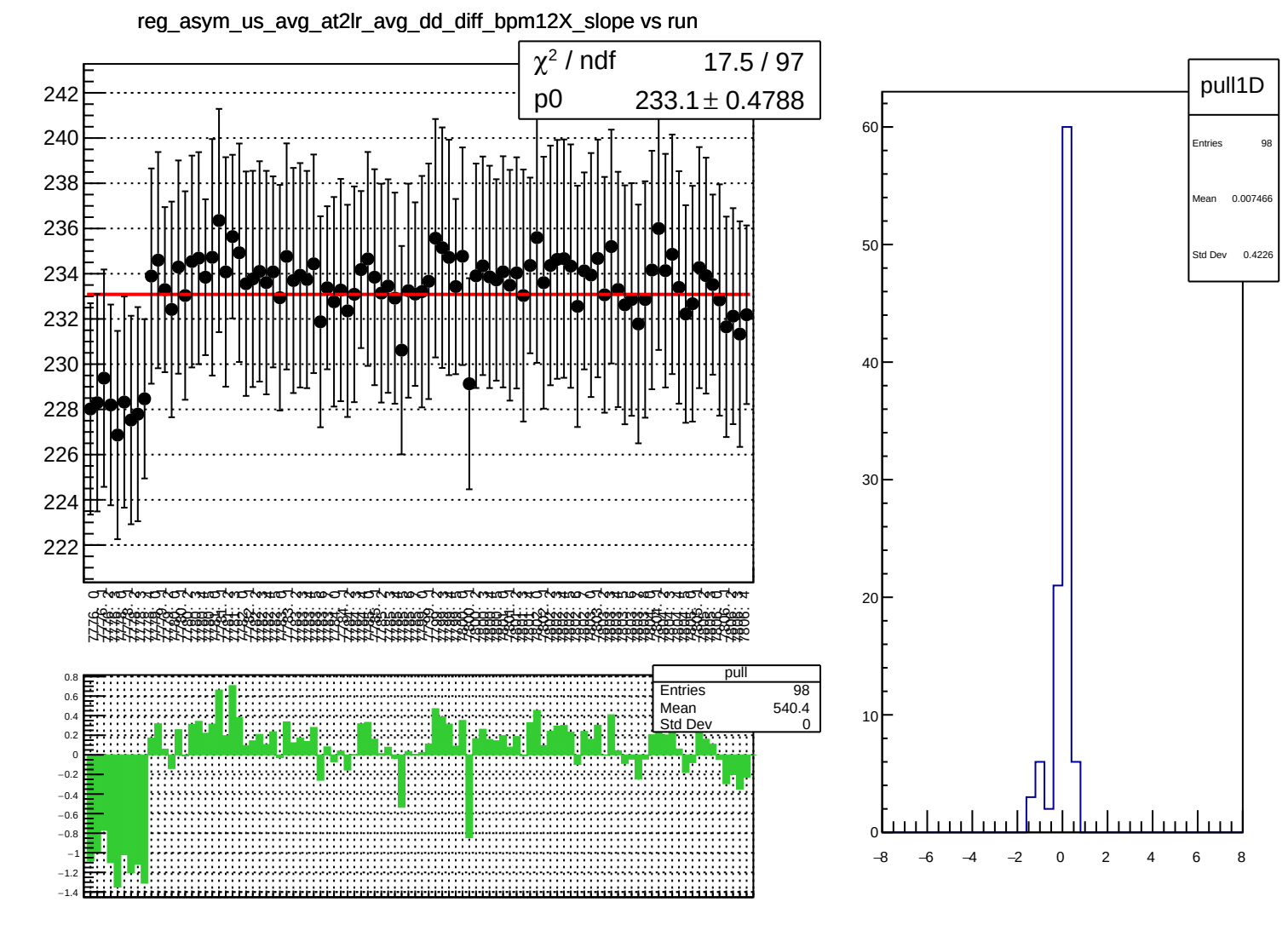

pull1D
Entries 98
Mean 0.0002803
Std Dev 0.1938
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

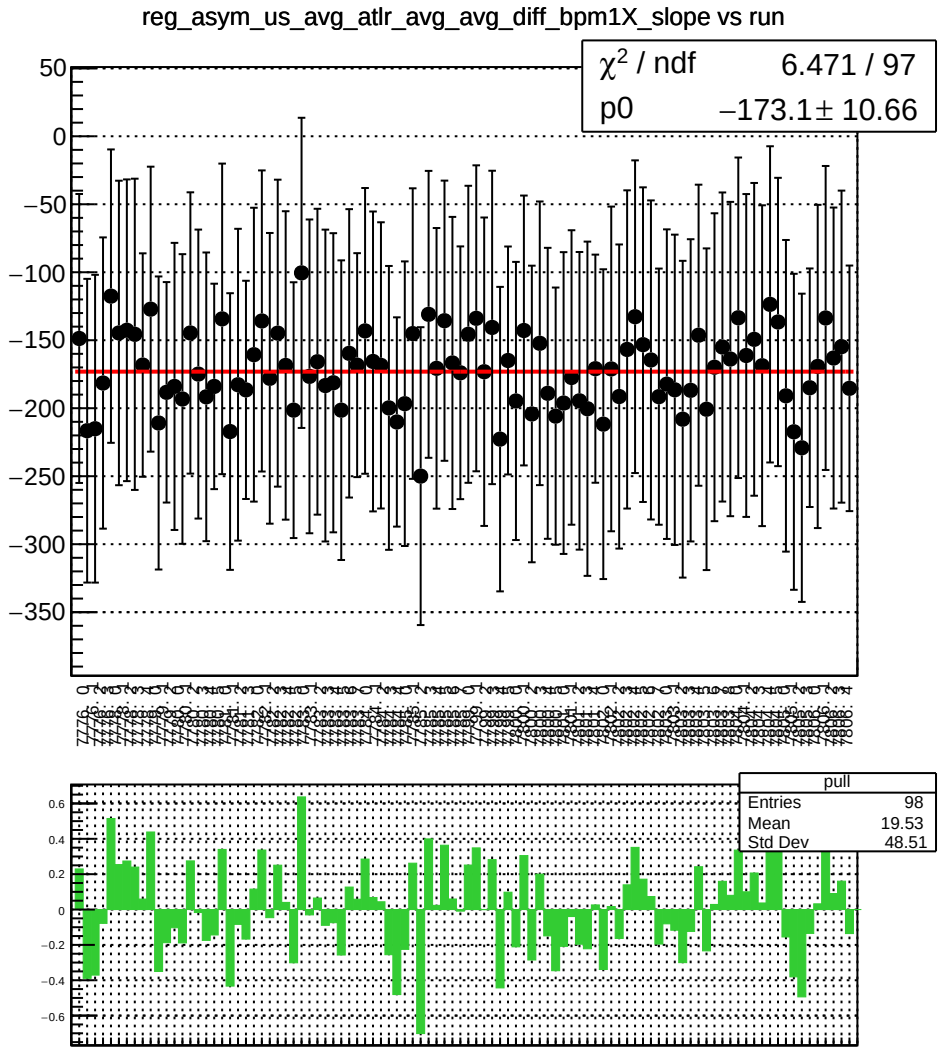

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.925 / 97
p0 −71.77 ± 13.37
100
0
−100
−200
−300
pull
Entries 98
Mean 56.46
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 98
Mean 0.0003478
Std Dev 0.2001
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

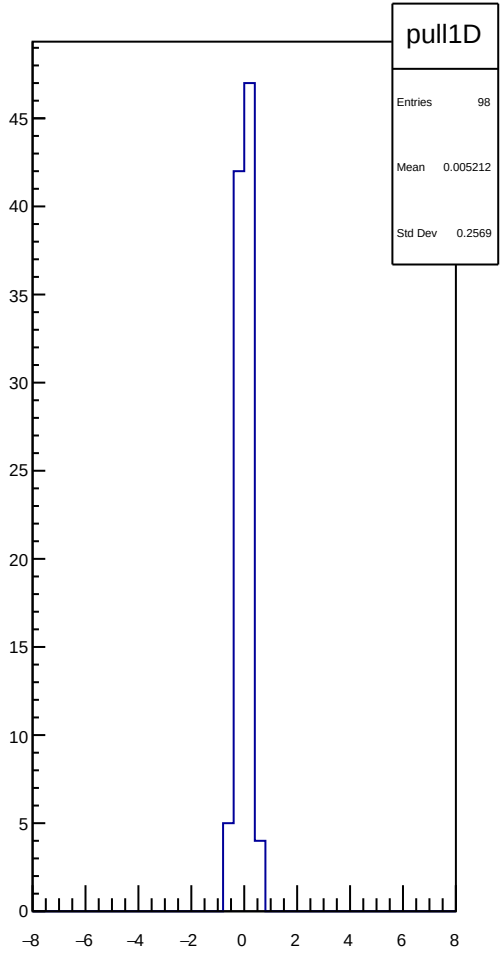

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.725 / 97
p0 −201.3 ± 11.32
−50
−100
−150
−200
−250
−300
−350
−400
pull
Entries 98
Mean 5837
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 98
Mean −0.0001713
Std Dev 0.195
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

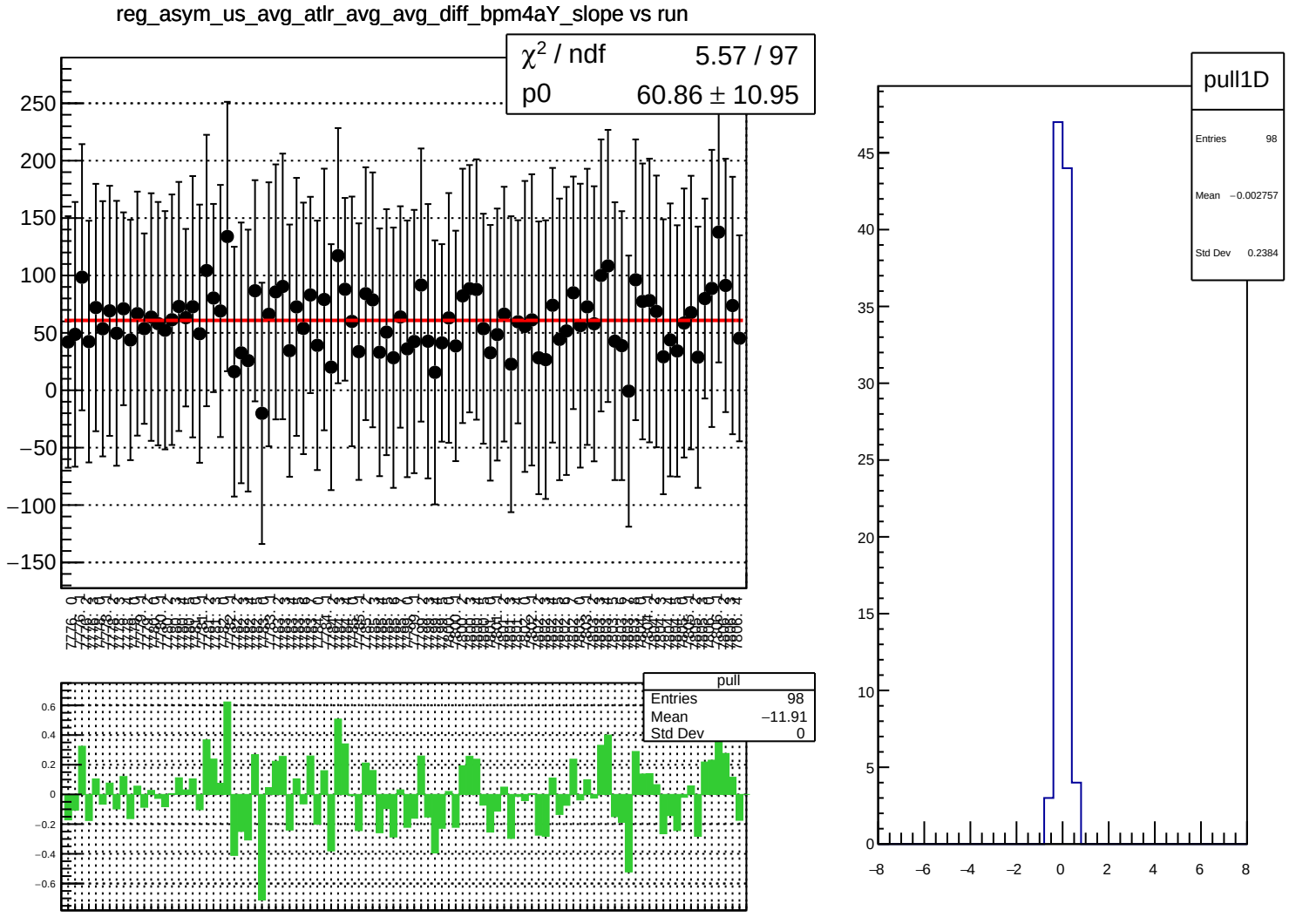

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.84 / 97
p0 −29.81 ± 15.13
200
100
0
−100
−200
−300
pull
Entries 98
Mean 520.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4

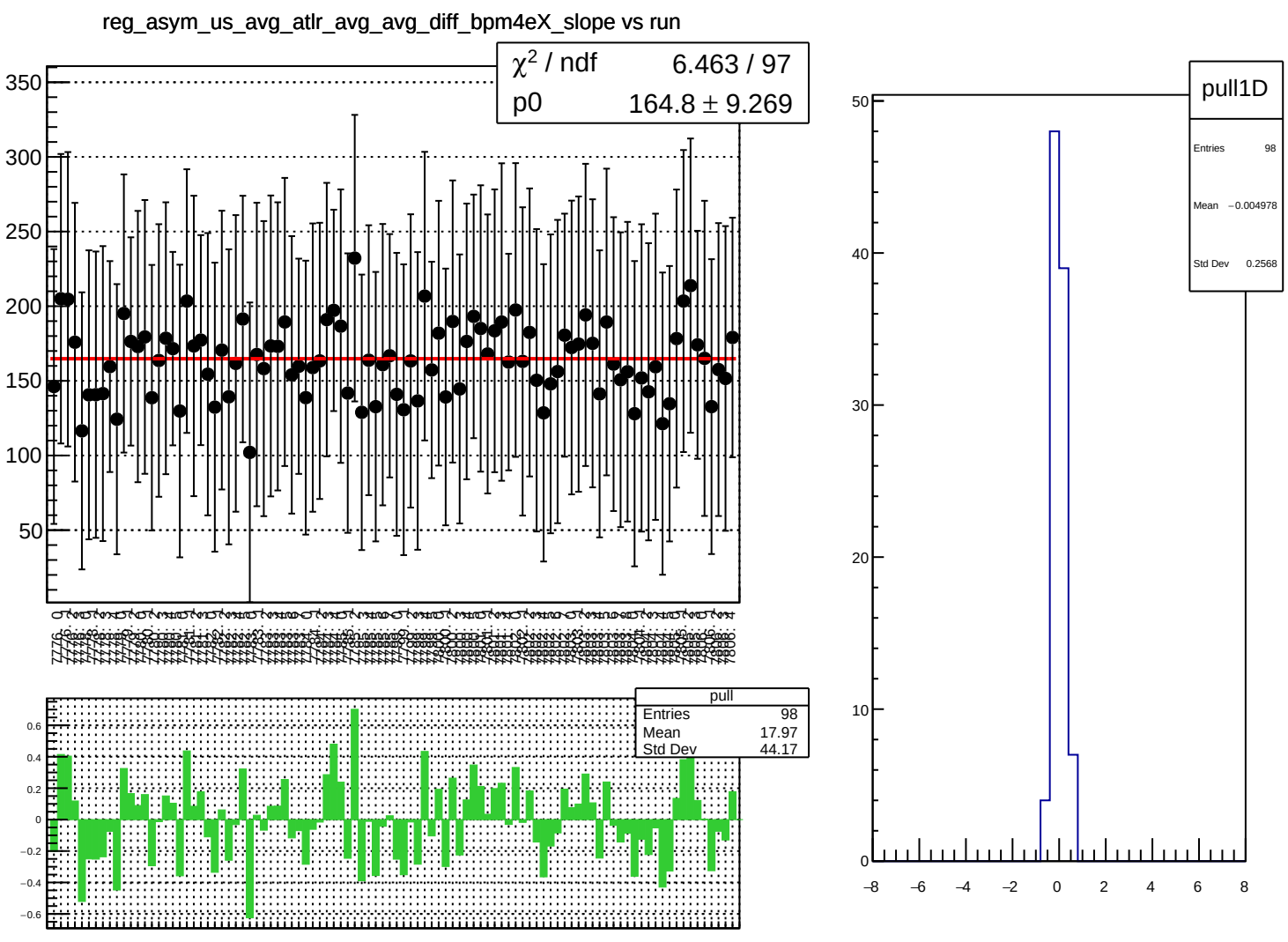

pull1D
Entries 98
Mean 0.0002658
Std Dev 0.1979
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

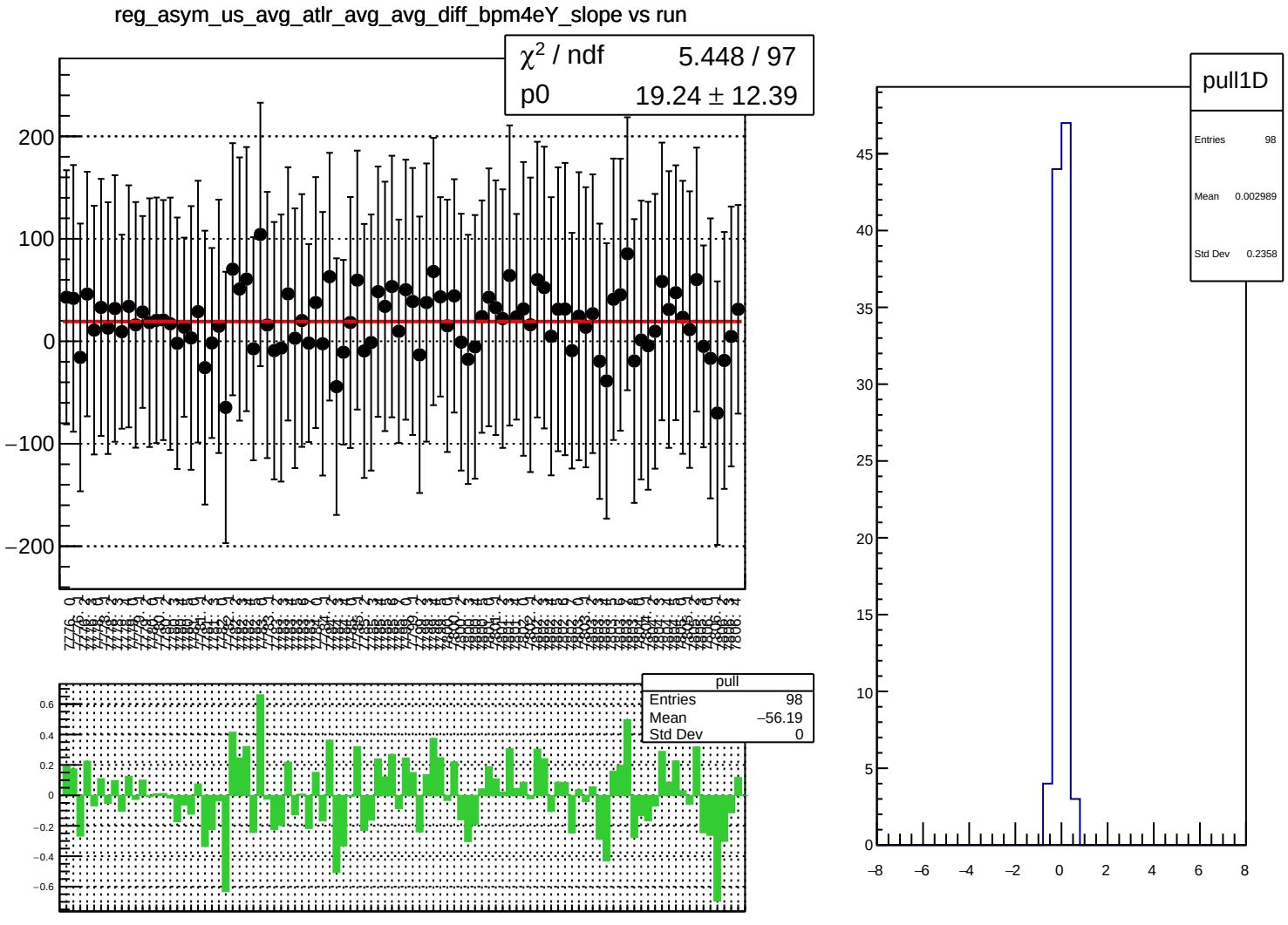

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 17.5 / 97
p0 233.1 ± 0.4788
242
240
238
236
234
232
230
228
226
224
222
pull
Entries 98
Mean 540.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 98
Mean 0.007466
Std Dev 0.4226
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

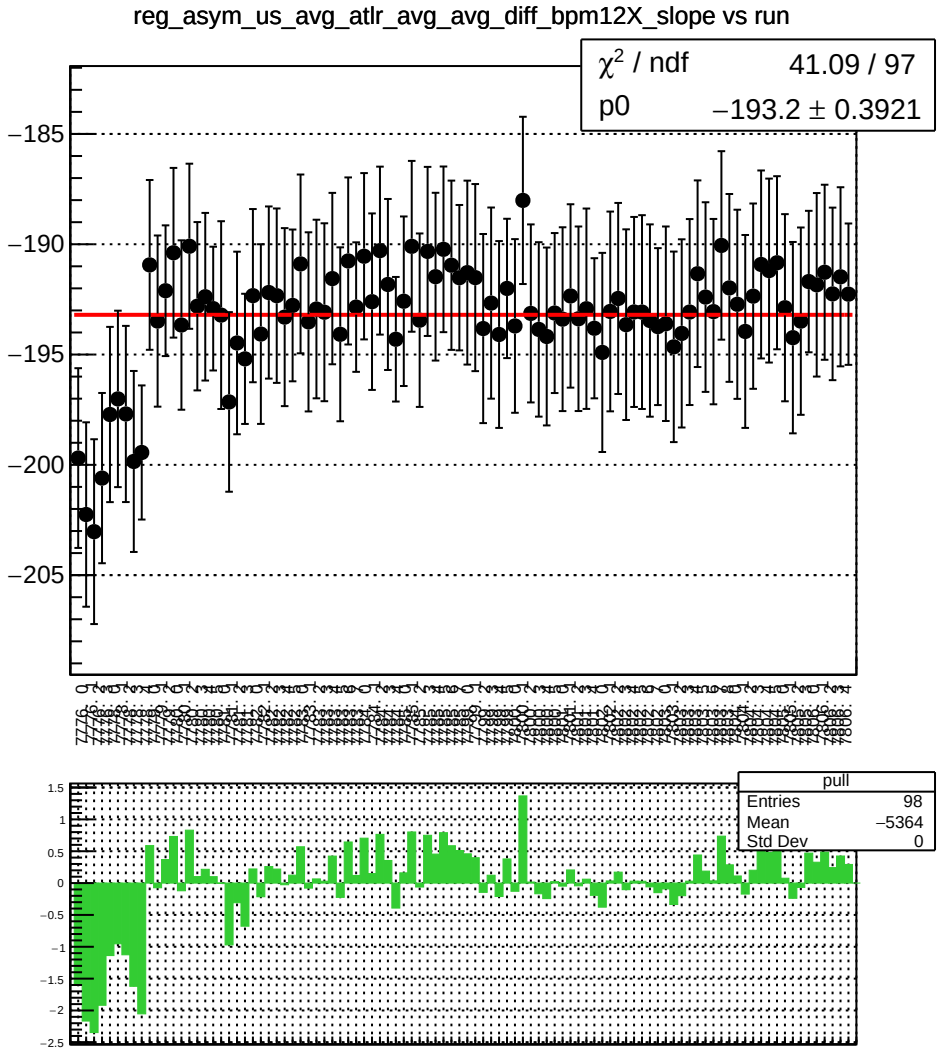

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 6.471 / 97
p0 −173.1± 10.66
pull
Entries 98
Mean 19.53
Std Dev 48.51

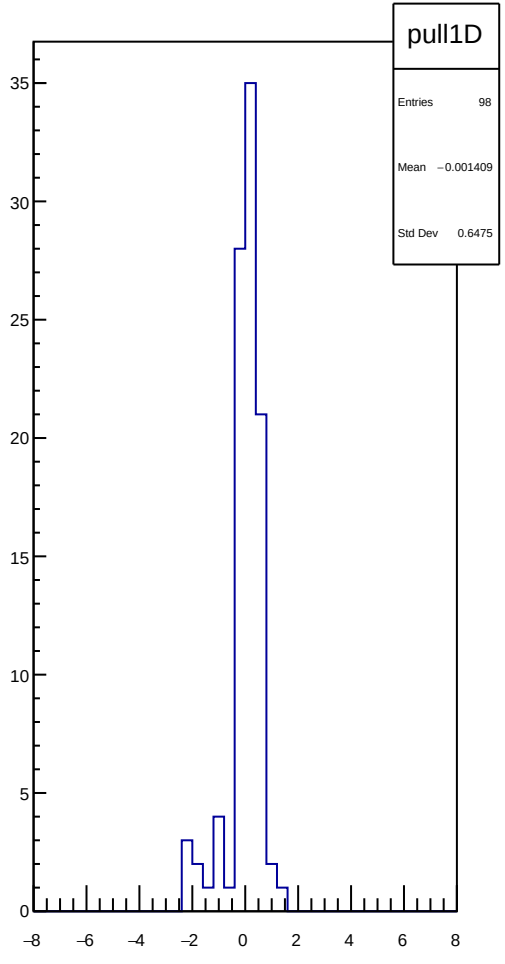

pull1D
Entries 98
Mean 0.005212
Std Dev 0.2569

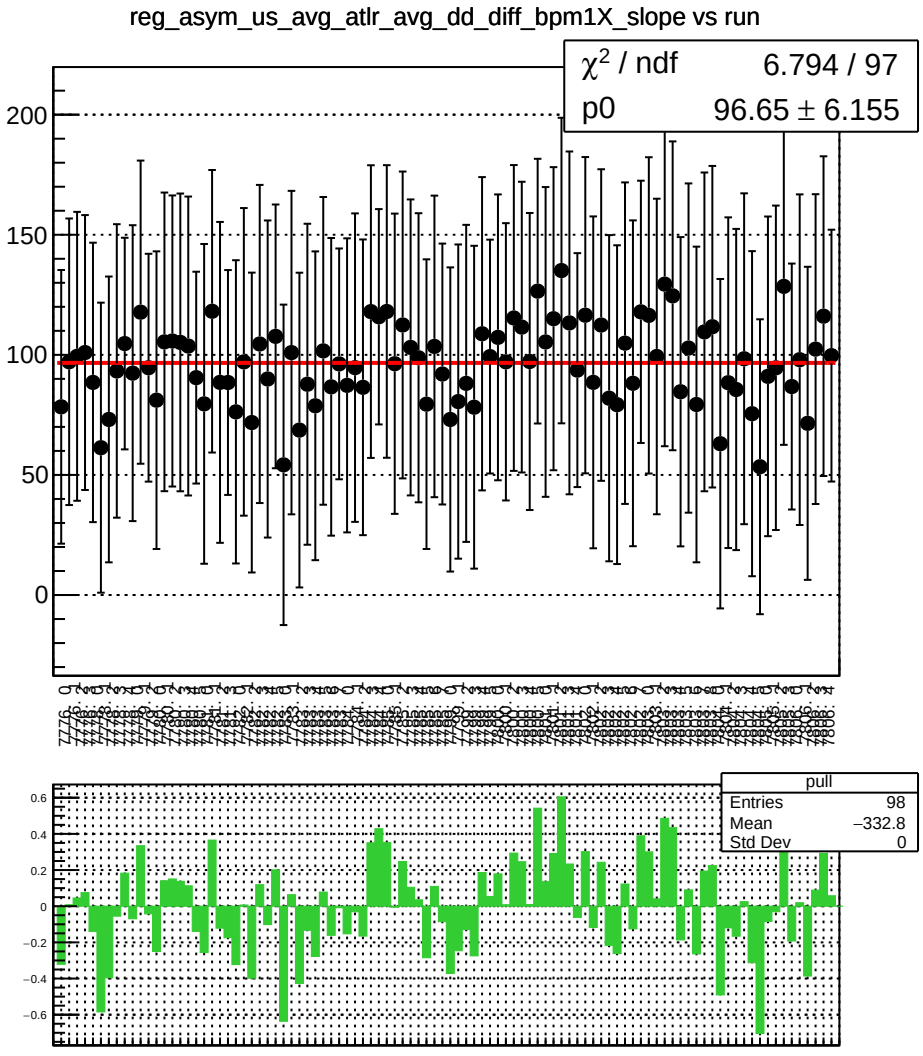

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.57 / 97
p0 60.86 ± 10.95
pull
Entries 98
Mean −11.91
Std Dev 0
pull1D
Entries 98
Mean −0.002757
Std Dev 0.2384

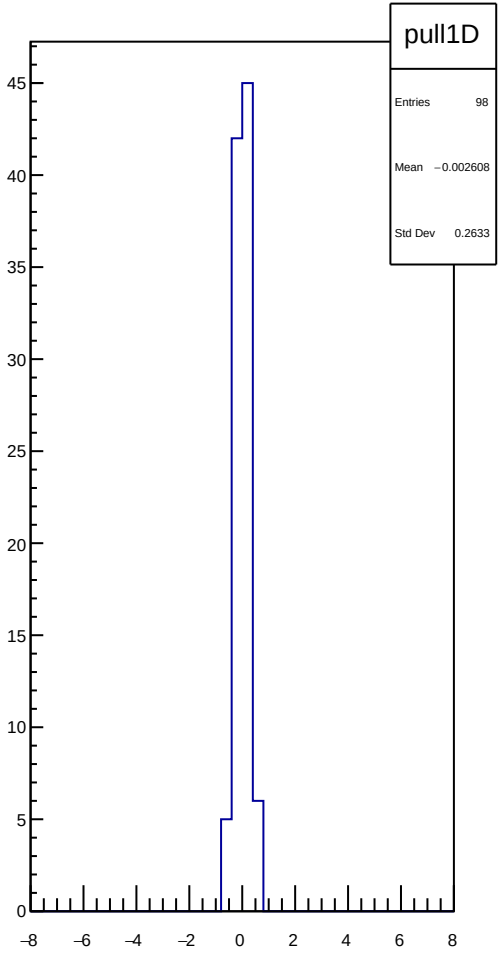

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.463 / 97
p0 164.8 ± 9.269
350
300
250
200
150
100
50
pull
Entries 98
Mean 17.97
Std Dev 44.17
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean −0.004978
Std Dev 0.2568
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

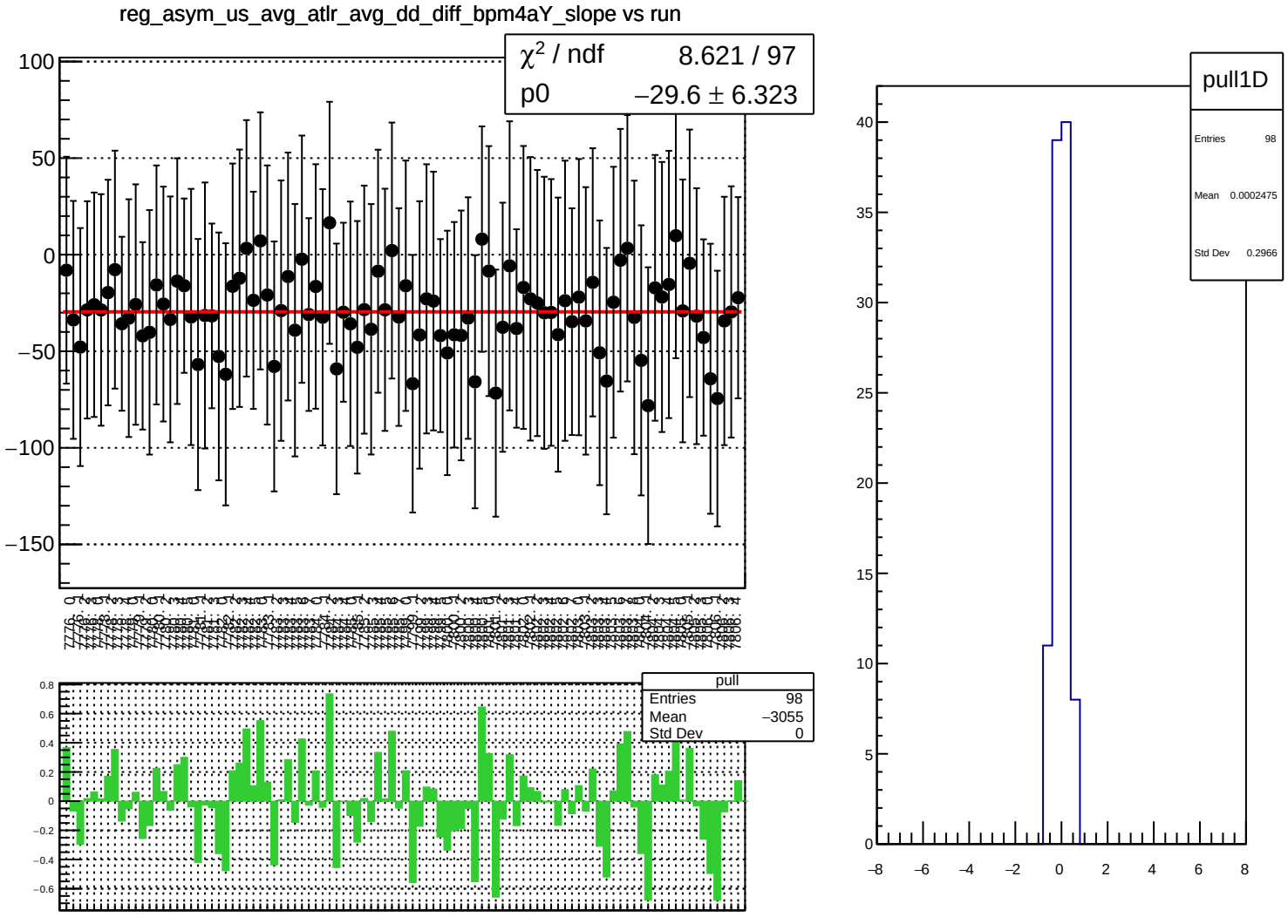

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.448 / 97
p0 19.24 ± 12.39
200
100
0
−100
−200
pull
Entries 98
Mean −56.19
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 98
Mean 0.002989
Std Dev 0.2358
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

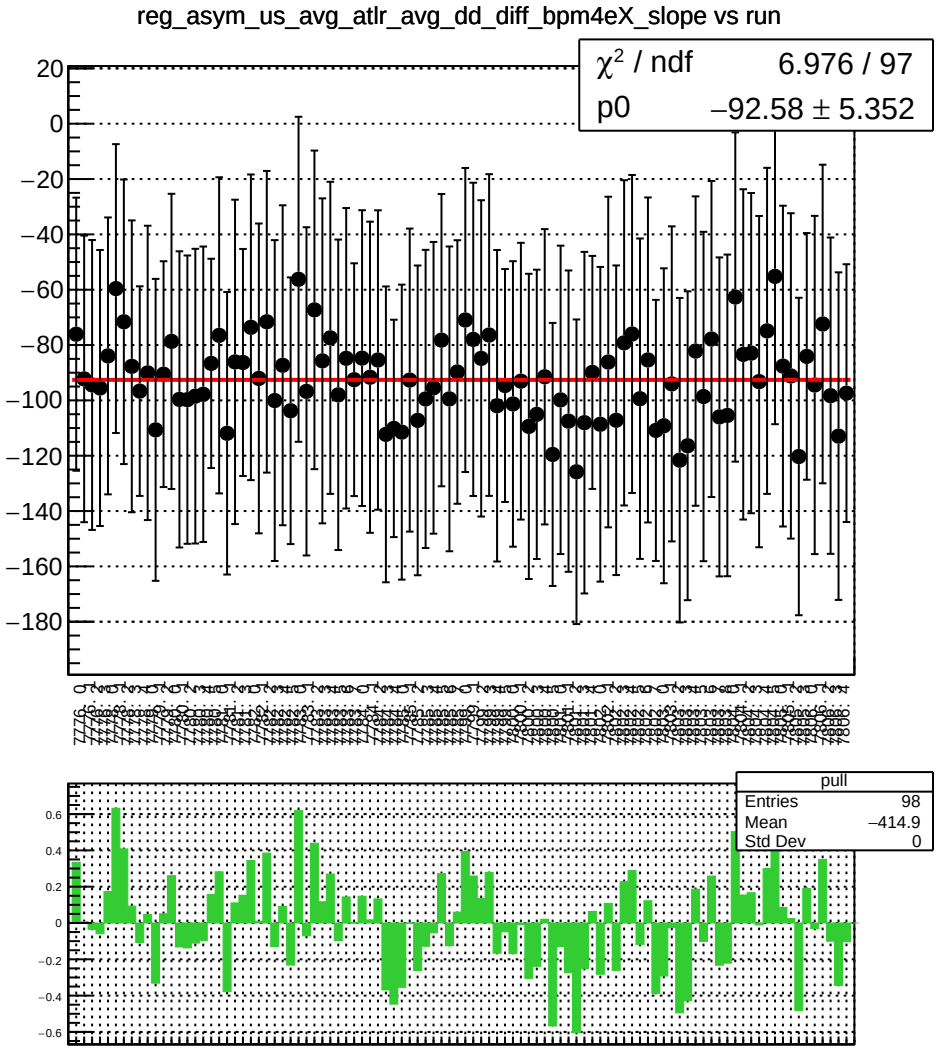

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 41.09 / 97
p0 −193.2 ± 0.3921
−185
−190
−195
−200
−205
pull
Entries 98
Mean −5364
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

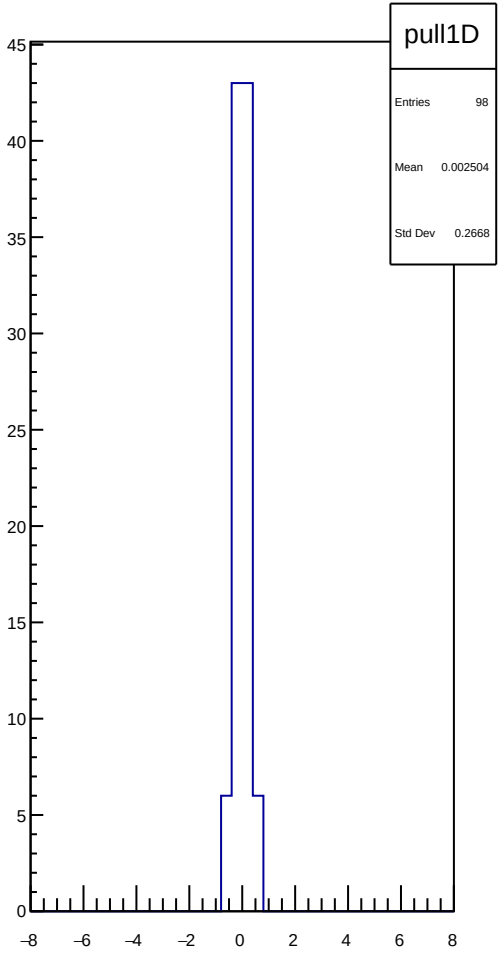

pull1D
Entries 98
Mean −0.001409
Std Dev 0.6475
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

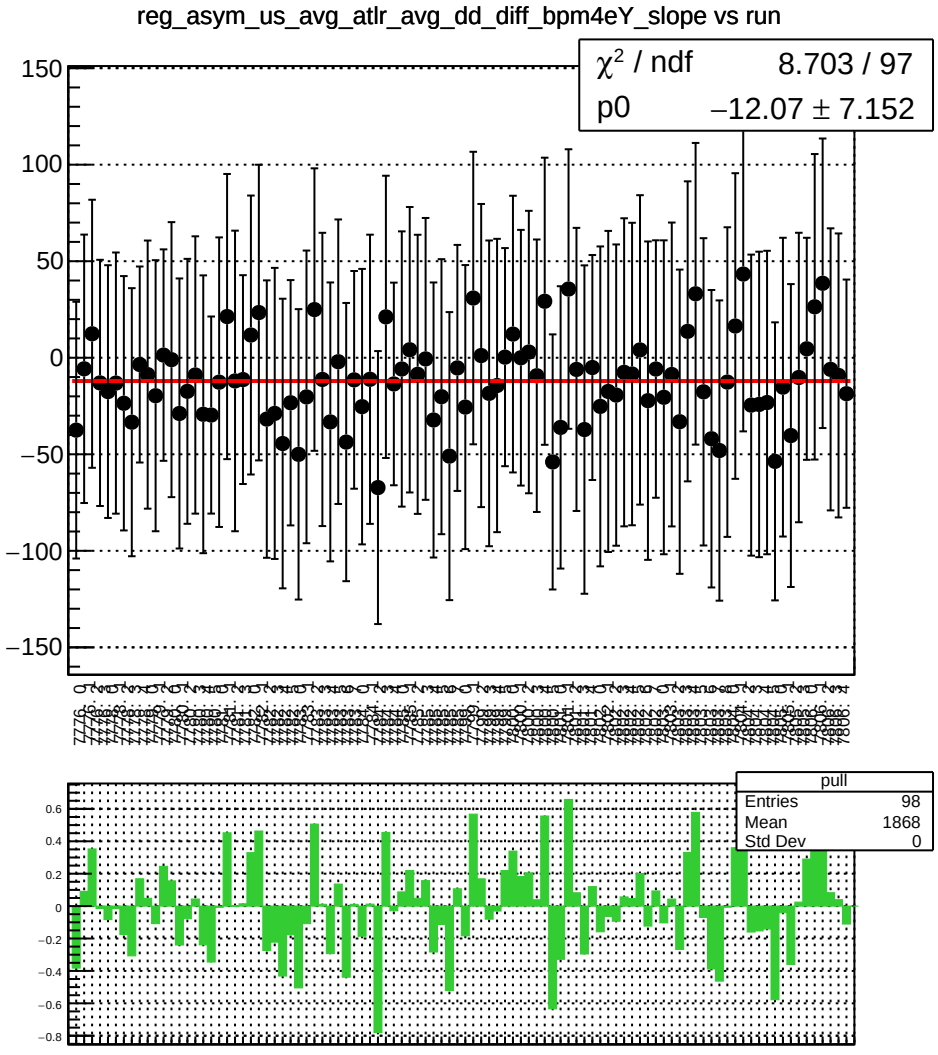

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 6.794 / 97
p0 96.65 ± 6.155
200
150
100
50
0
pull
Entries 98
Mean −332.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

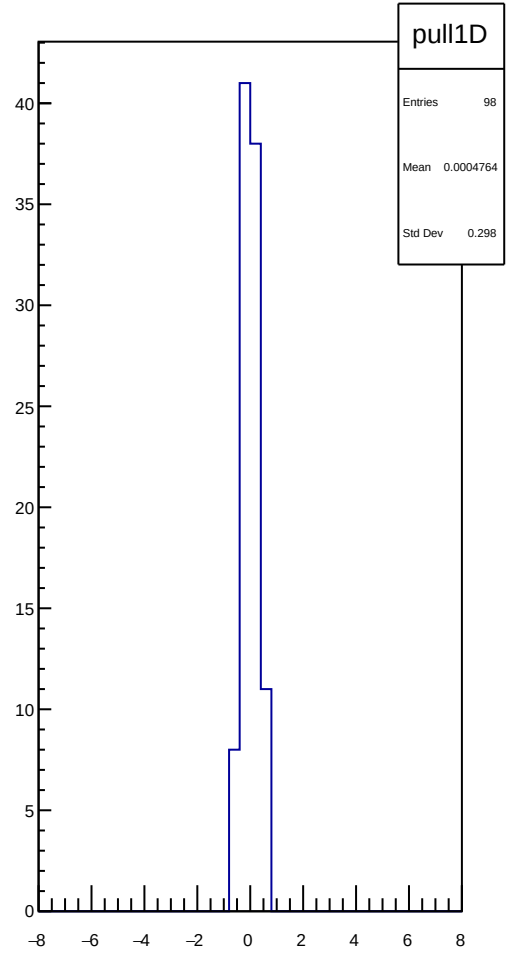

pull1D
Entries 98
Mean −0.002608
Std Dev 0.2633
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

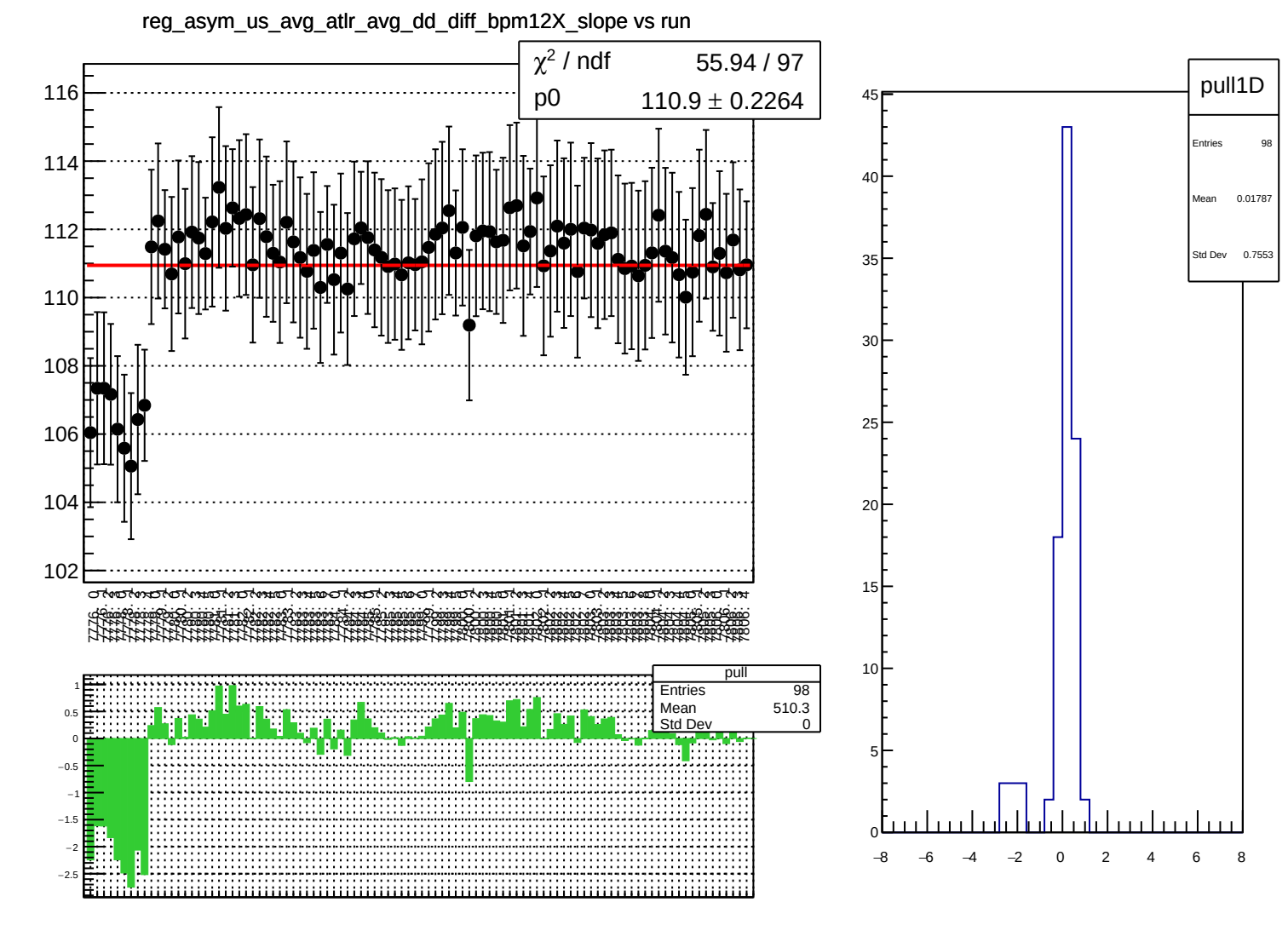

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.621 / 97
p0 −29.6 ± 6.323
pull
Entries 98
Mean −3055
Std Dev 0
pull1D
Entries 98
Mean 0.0002475
Std Dev 0.2966

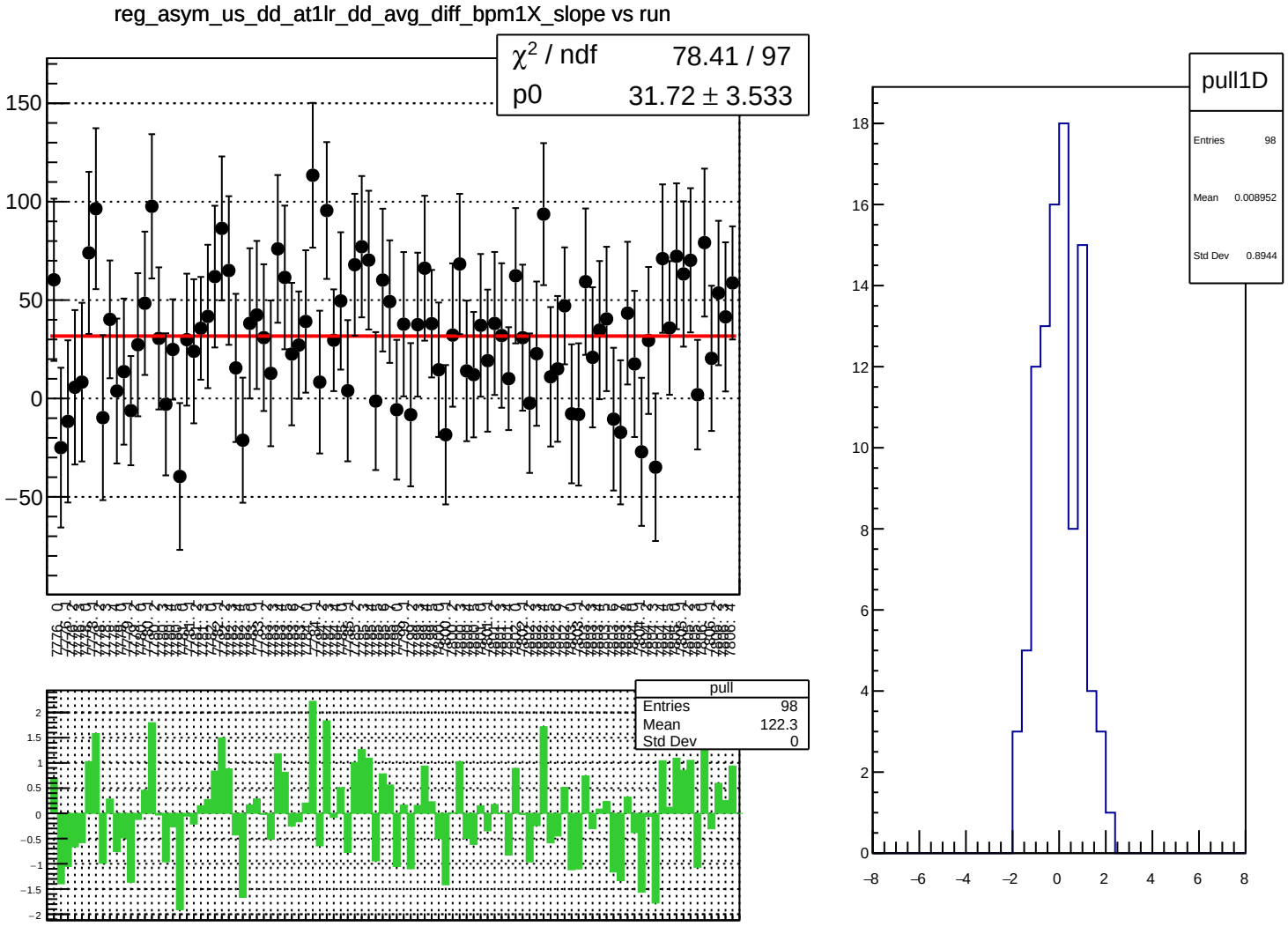

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.976 / 97
p0 −92.58 ± 5.352
pull
Entries 98
Mean −414.9
Std Dev 0

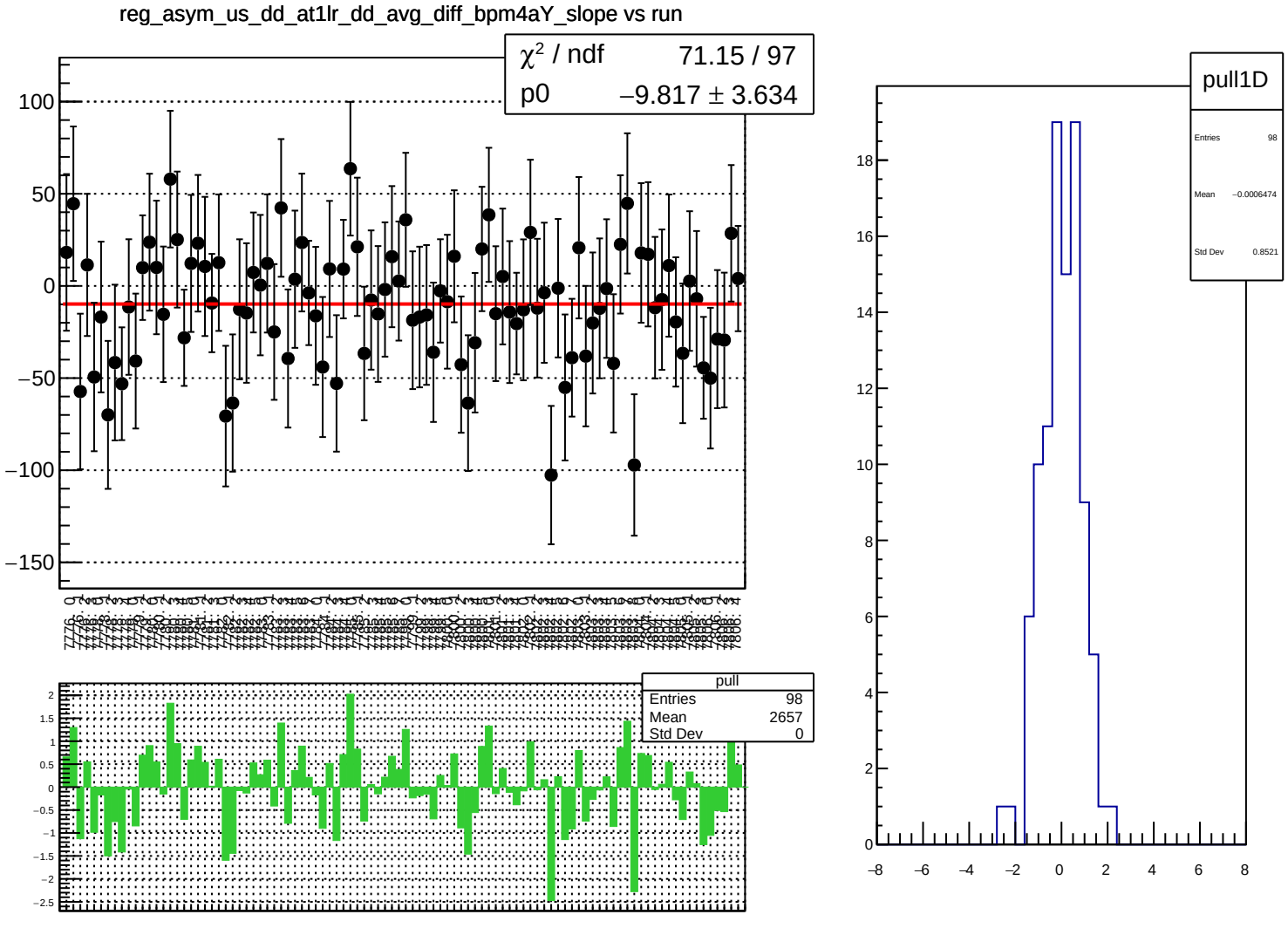

pull1D
Entries 98
Mean 0.002504
Std Dev 0.2668

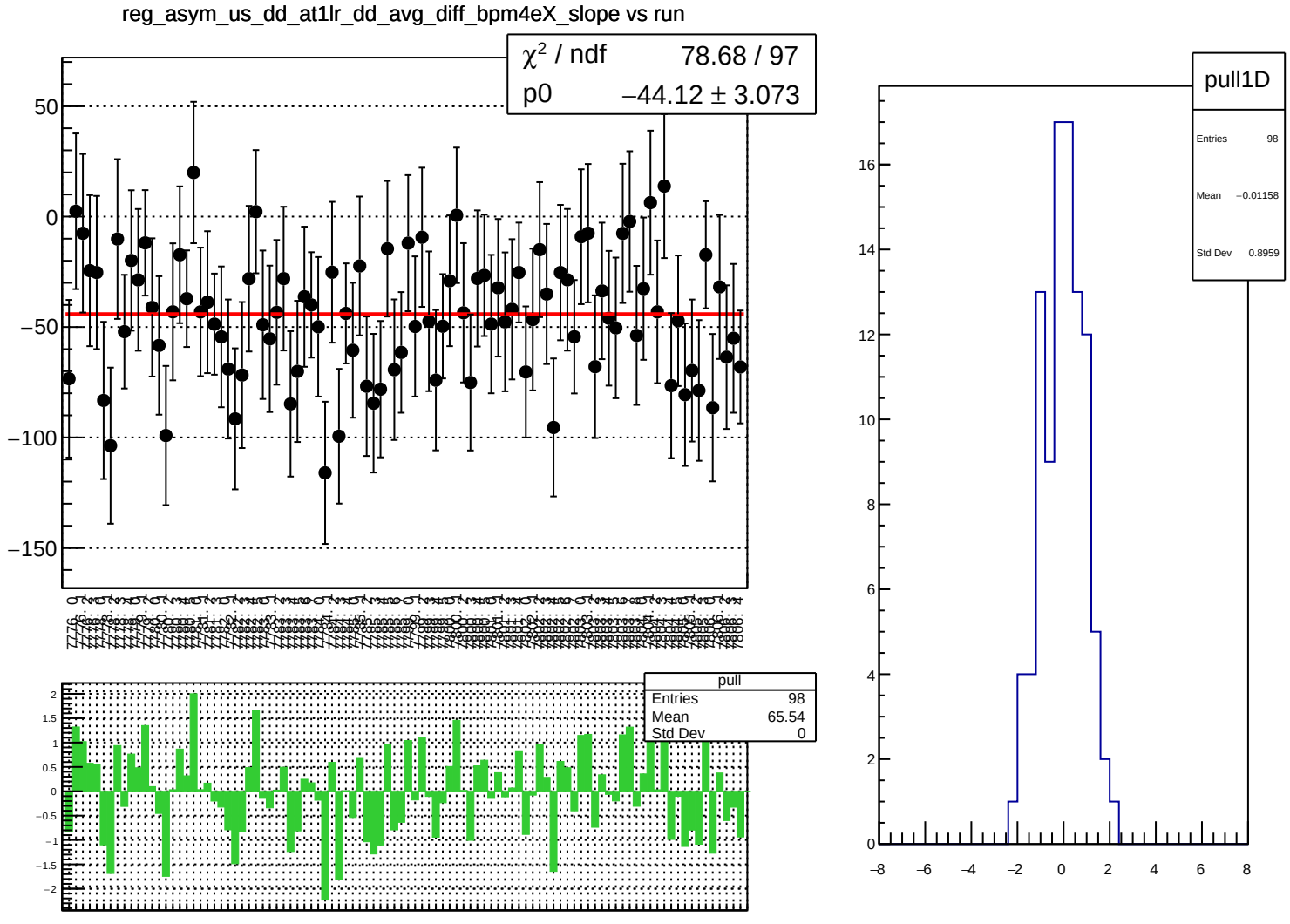

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.703 / 97
p0 −12.07 ± 7.152
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean 1868
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

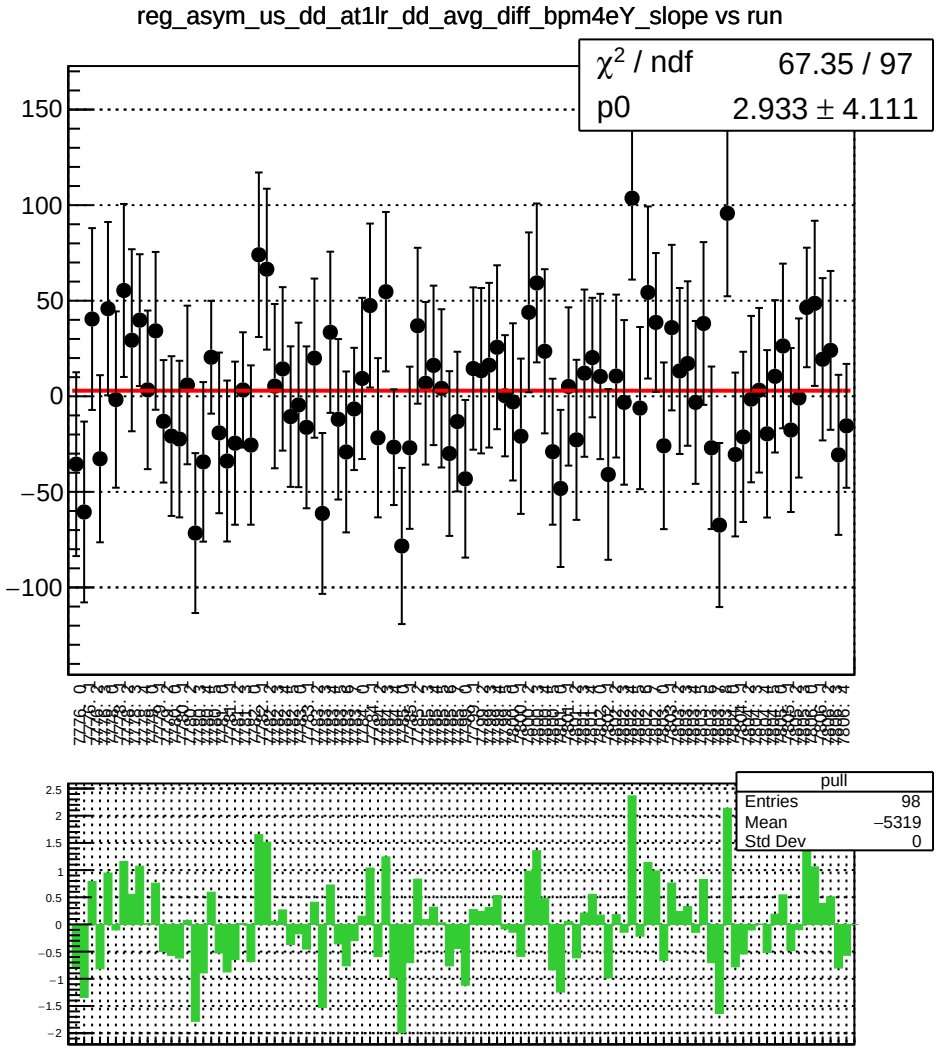

pull1D
Entries 98
Mean 0.0004764
Std Dev 0.298
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

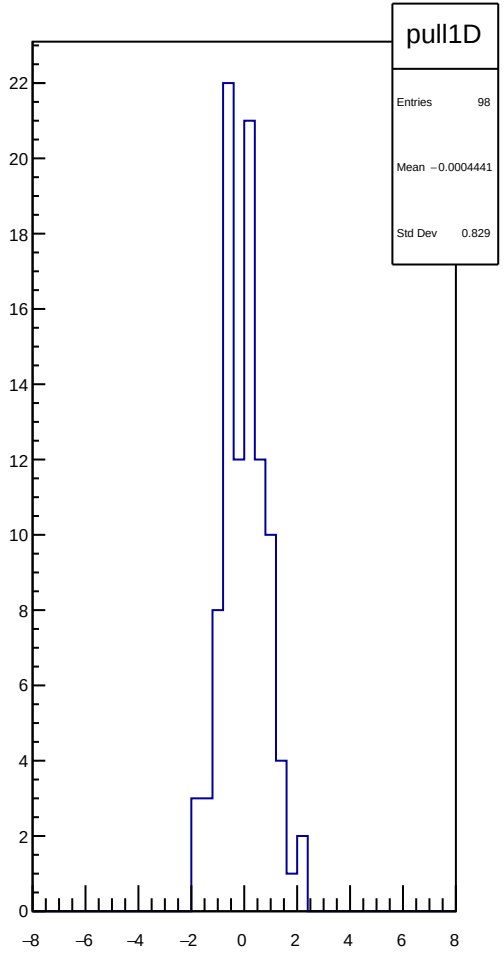

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 55.94 / 97
p0 110.9 ± 0.2264
pull
Entries 98
Mean 510.3
Std Dev 0
pull1D
Entries 98
Mean 0.01787
Std Dev 0.7553

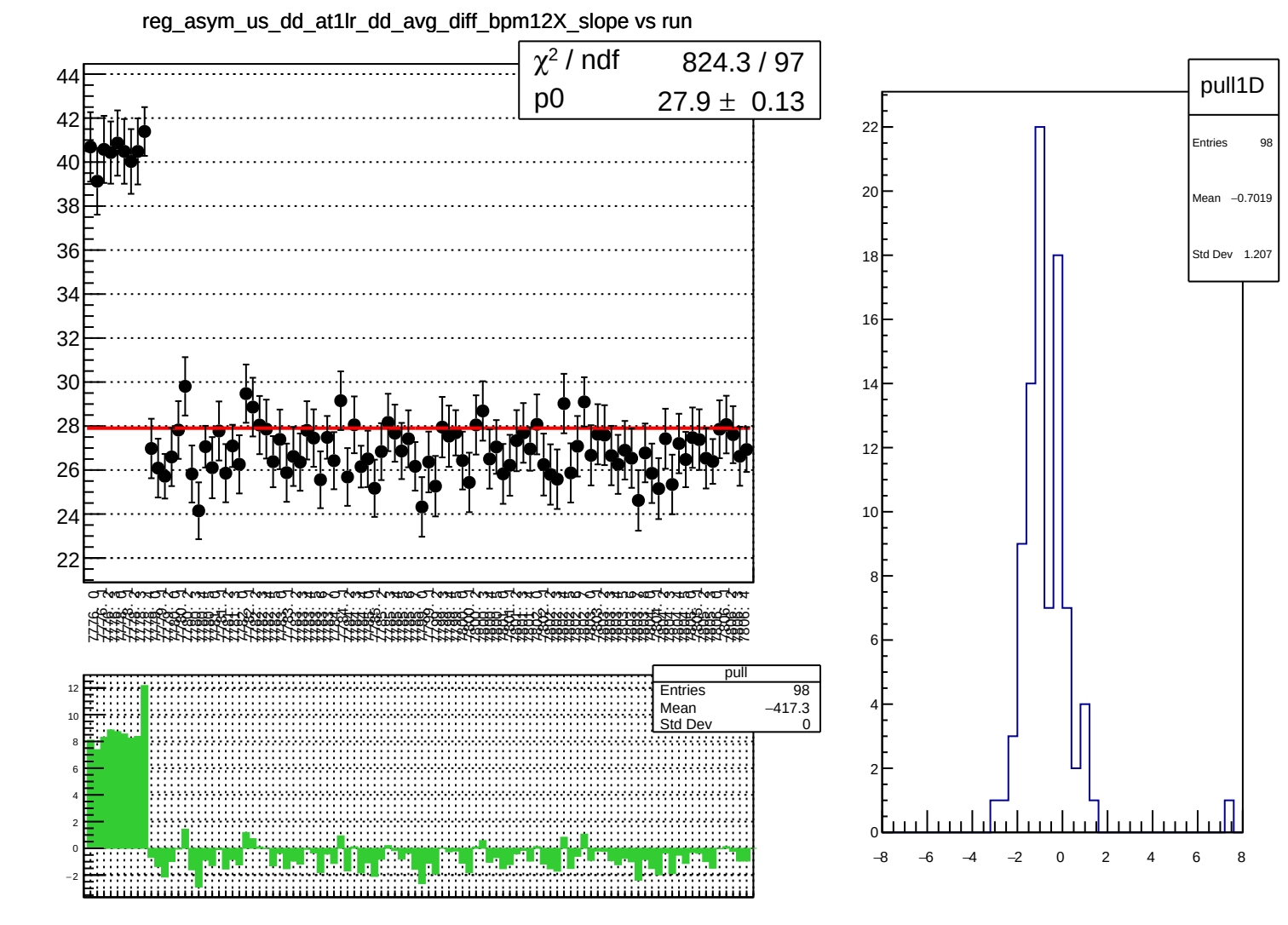

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 78.41 / 97
p0 31.72 ± 3.533
150
100
50
0
−50
pull
Entries 98
Mean 122.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean 0.008952
Std Dev 0.8944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

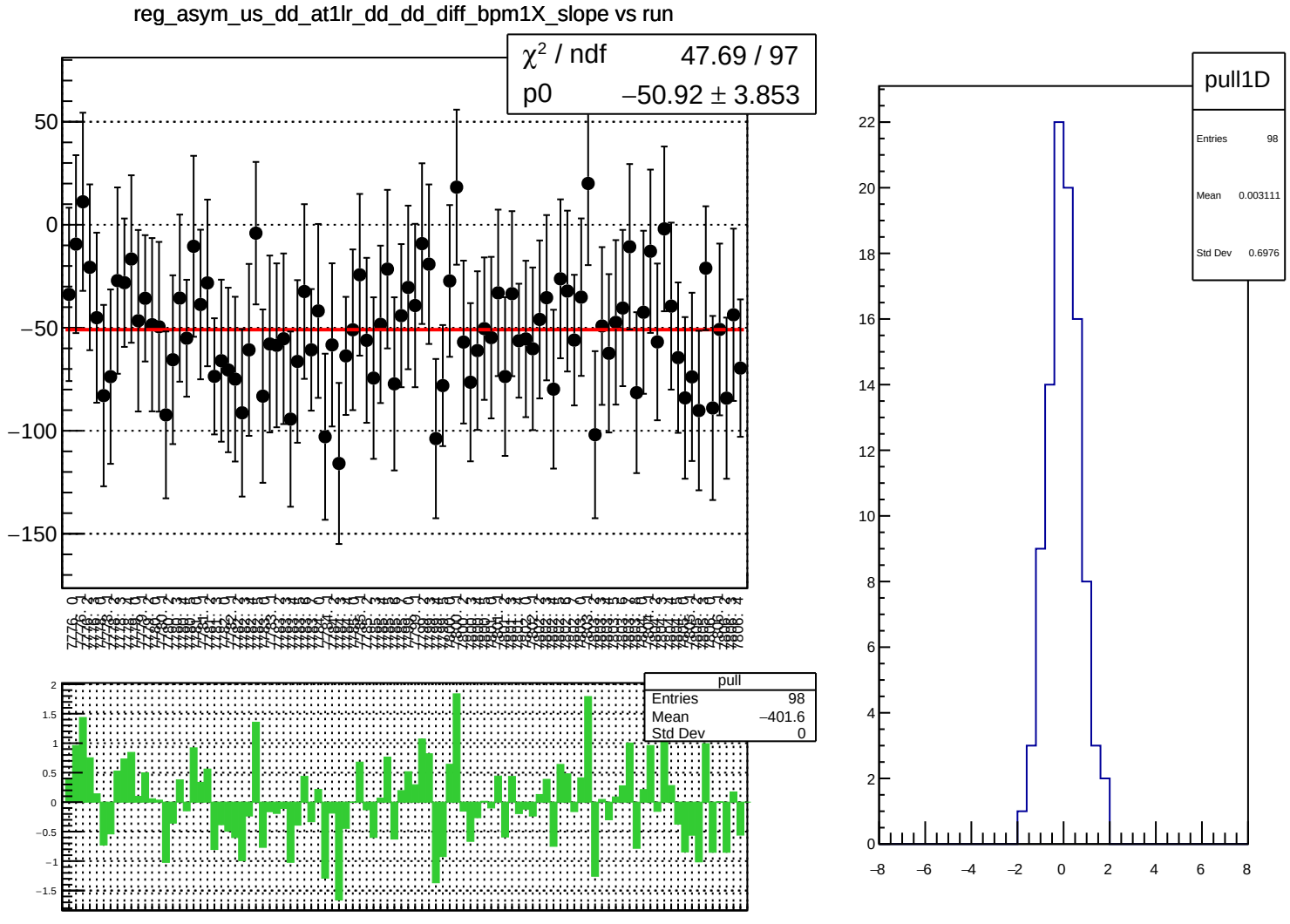

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.15 / 97
p0 −9.817 ± 3.634
pull
Entries 98
Mean 2657
Std Dev 0
pull1D
Entries 98
Mean −0.0006474
Std Dev 0.8521

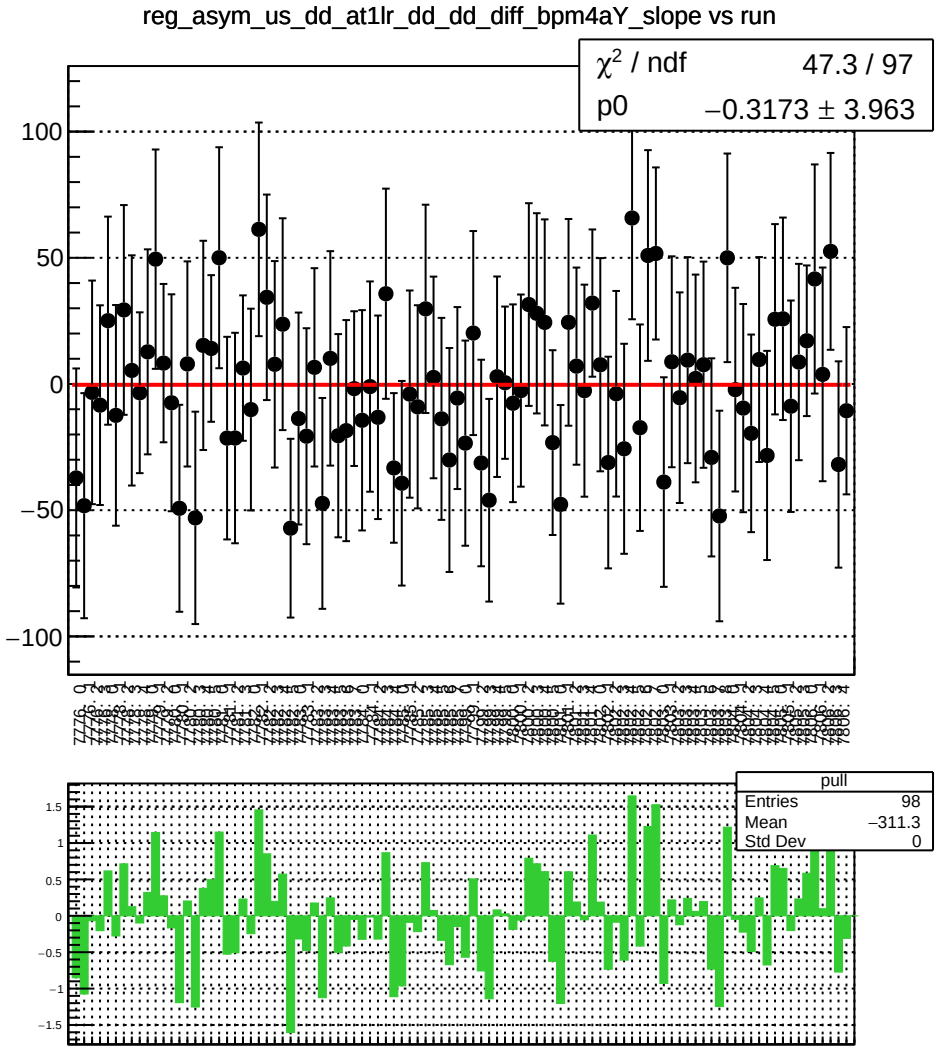

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.68 / 97
p0 −44.12 ± 3.073
50
0
−50
−100
−150
pull
Entries 98
Mean 65.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 98
Mean −0.01158
Std Dev 0.8959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

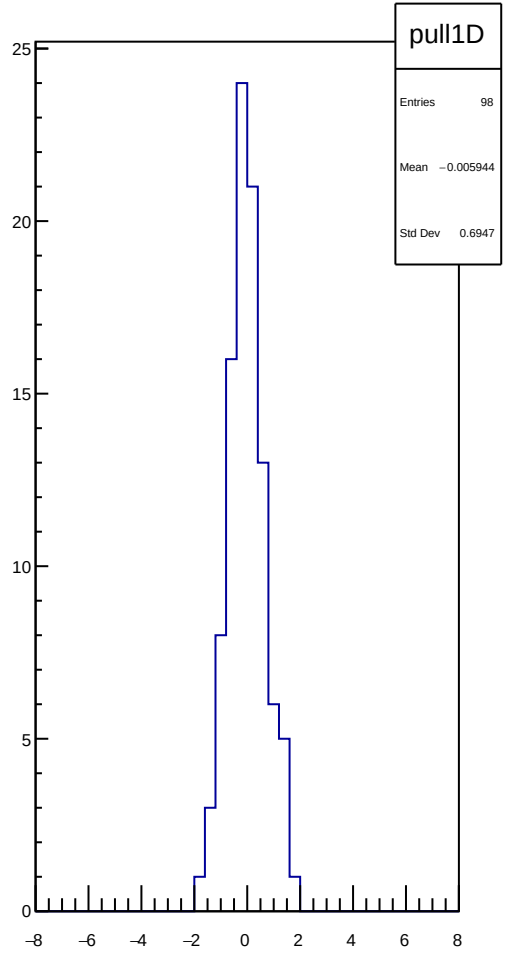

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 67.35 / 97
p0 2.933 ± 4.111
150
100
50
0
−50
−100
pull
Entries 98
Mean −5319
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

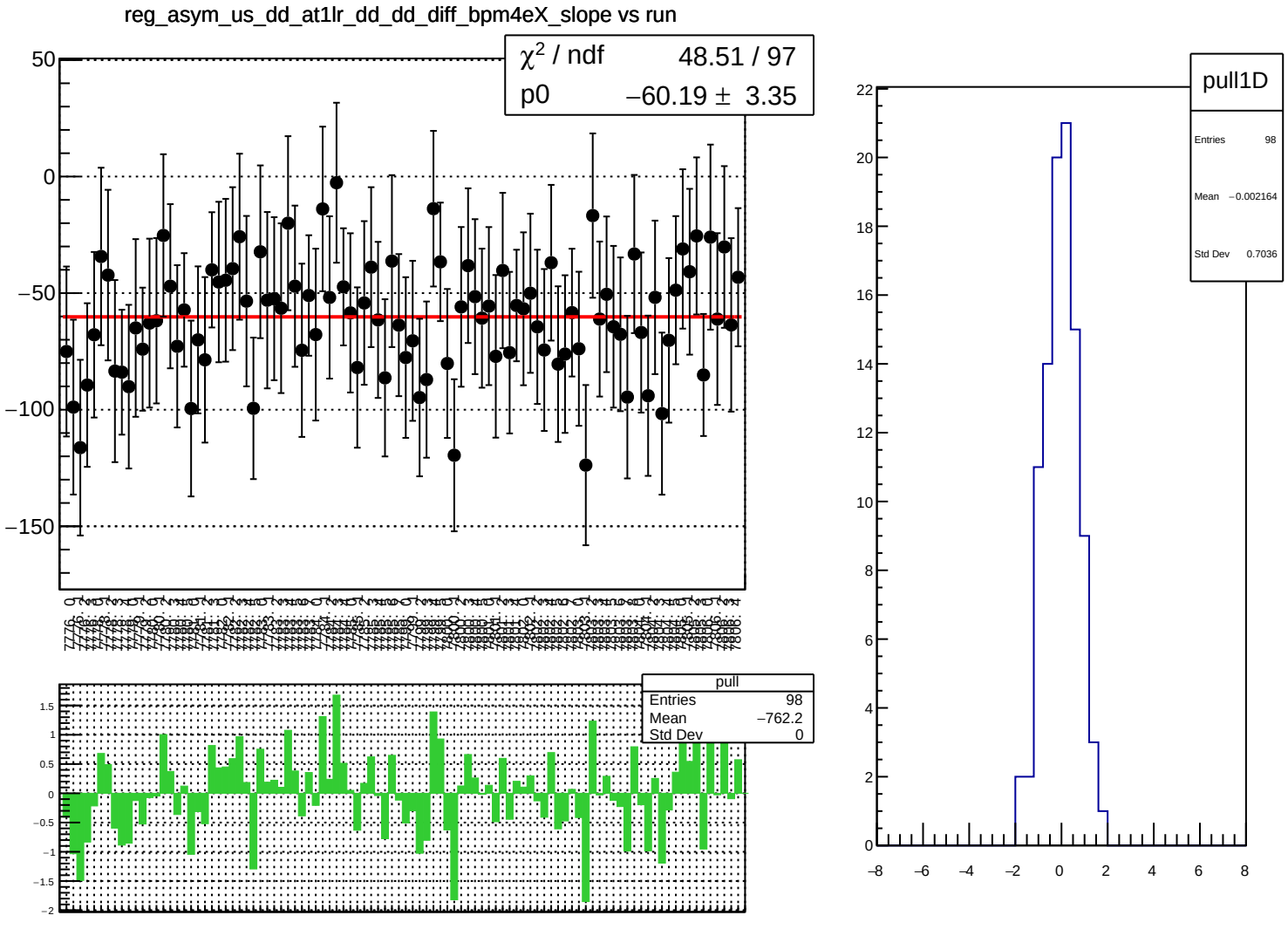

pull1D
Entries 98
Mean −0.0004441
Std Dev 0.829
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

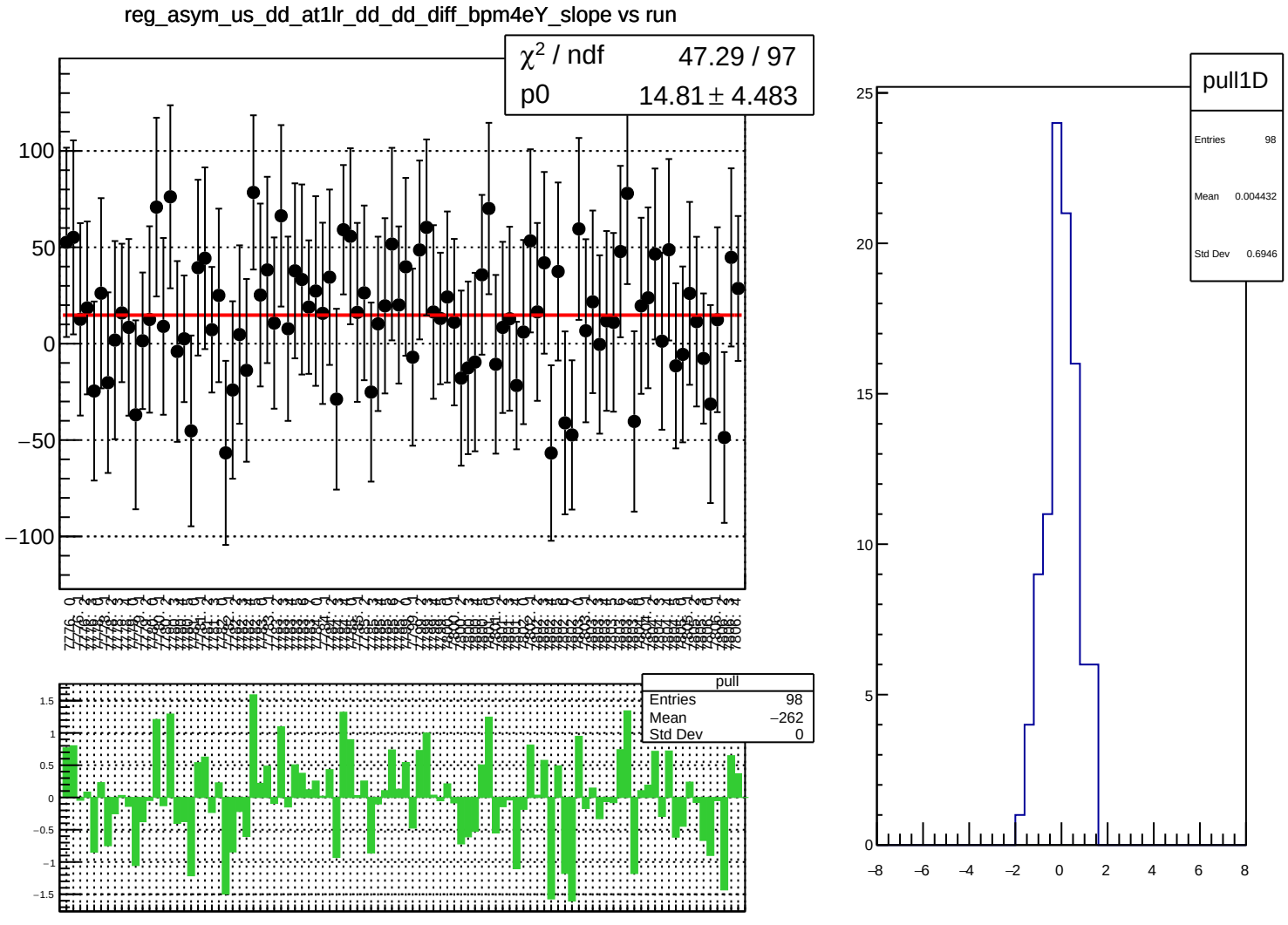

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 824.3 / 97
p0 27.9 ± 0.13
pull
Entries 98
Mean −417.3
Std Dev 0
pull1D
Entries 98
Mean −0.7019
Std Dev 1.207

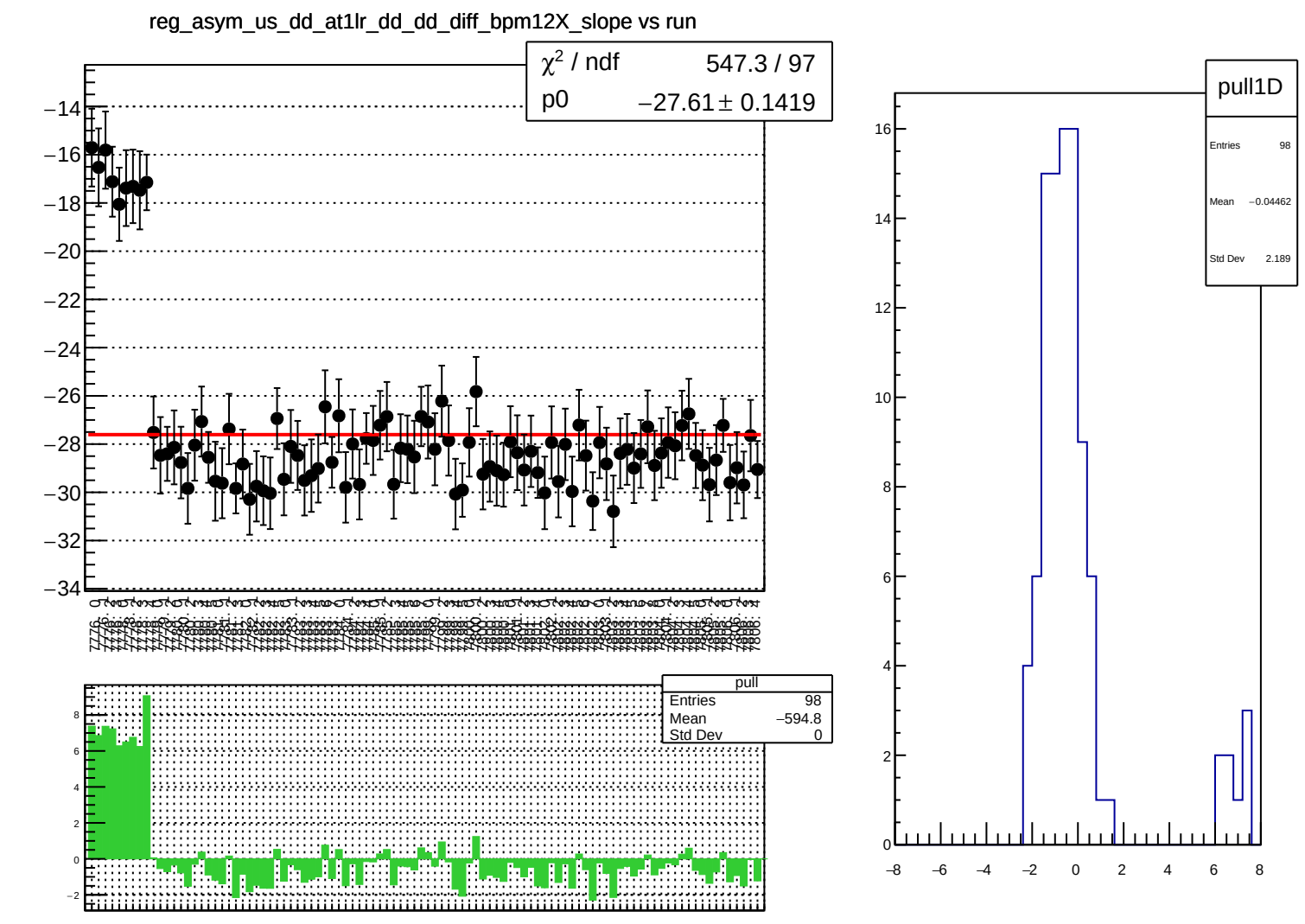

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 47.69 / 97
p0 −50.92 ± 3.853
pull
Entries 98
Mean −401.6
Std Dev 0
pull1D
Entries 98
Mean 0.003111
Std Dev 0.6976

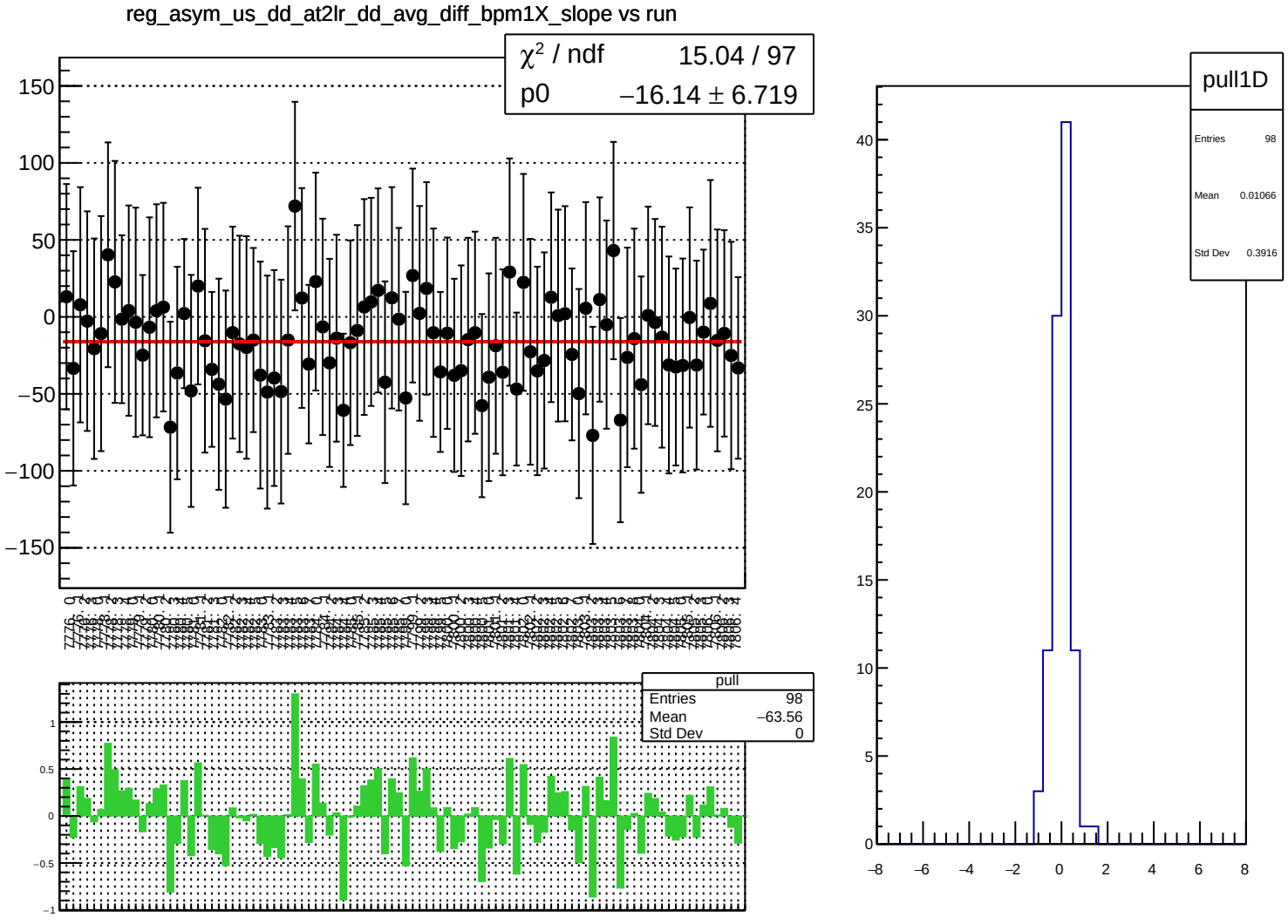

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.3 / 97
p0 −0.3173 ± 3.963
100
50
0
−50
−100
pull
Entries 98
Mean −311.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

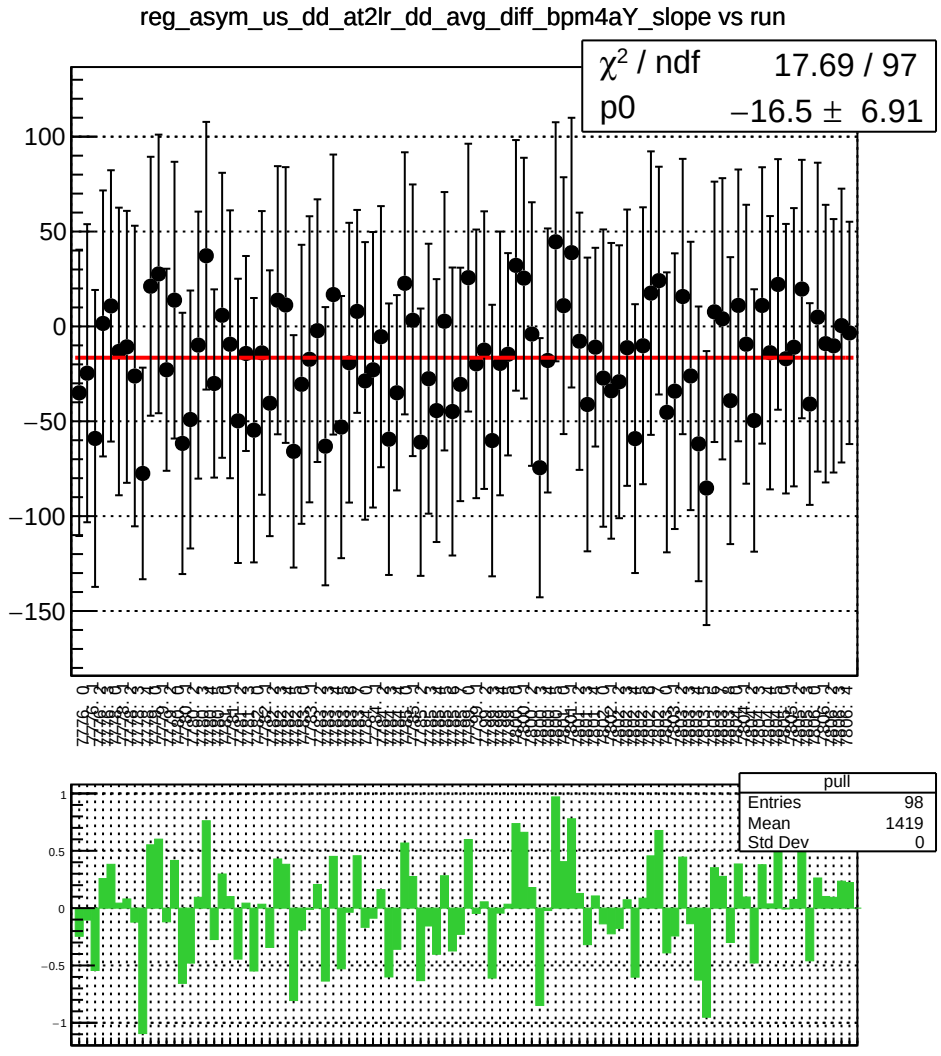

pull1D
Entries 98
Mean −0.005944
Std Dev 0.6947
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

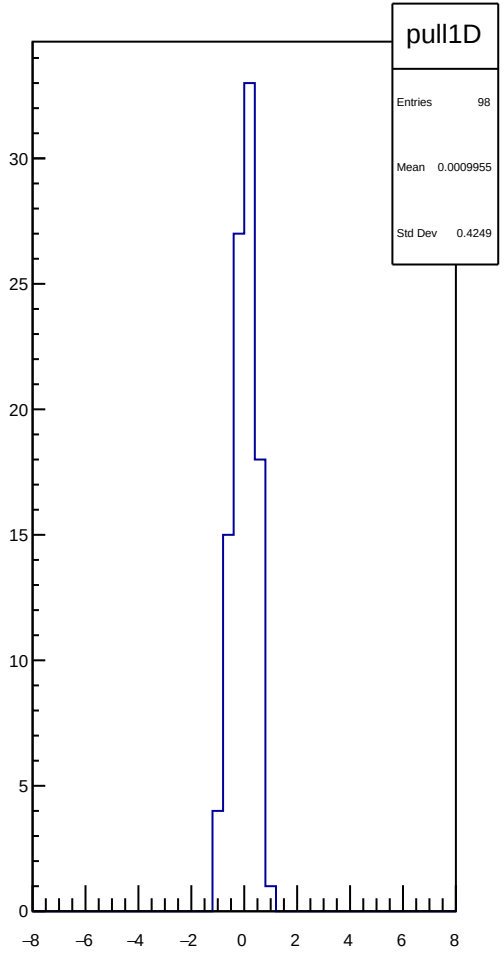

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.51 / 97
p0 −60.19 ± 3.35
pull
Entries 98
Mean −762.2
Std Dev 0
pull1D
Entries 98
Mean −0.002164
Std Dev 0.7036

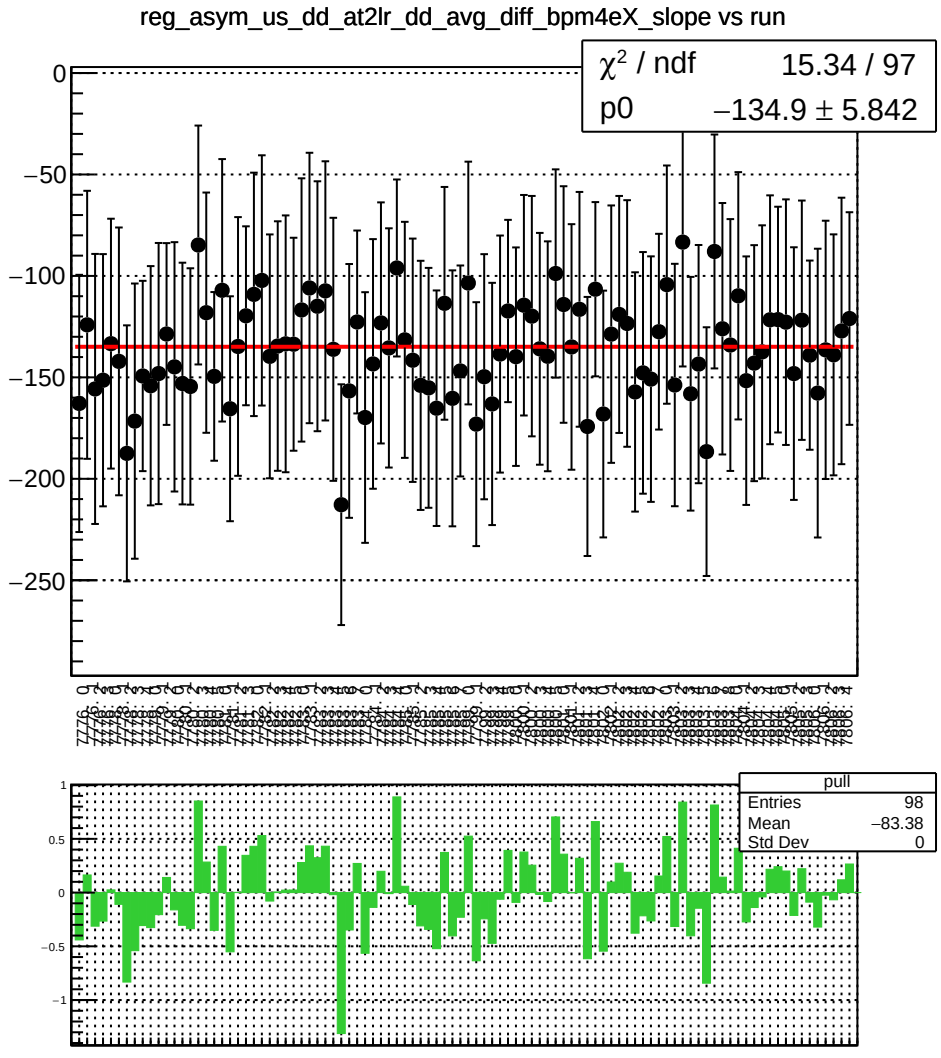

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.29 / 97
p0 14.81 ± 4.483
100
50
0
−50
−100
pull
Entries 98
Mean −262
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 98
Mean 0.004432
Std Dev 0.6946
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

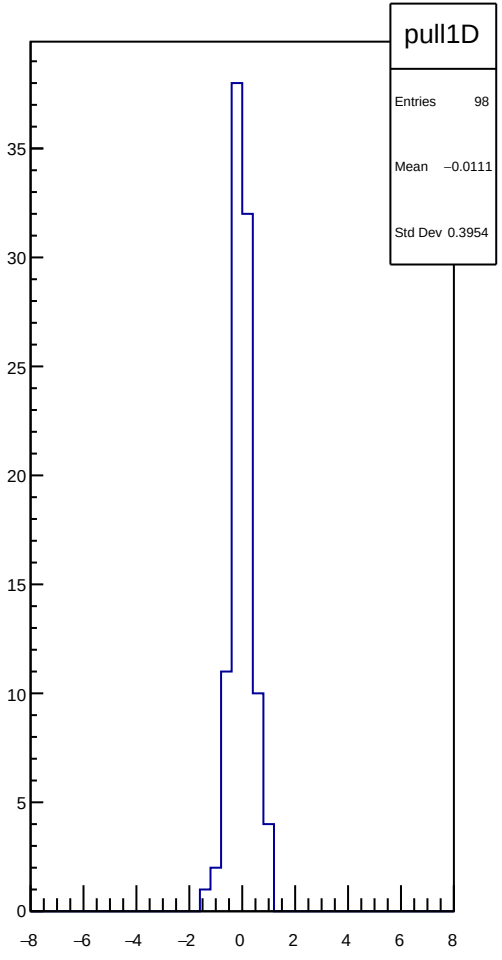

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 547.3 / 97
p0 −27.61 ± 0.1419
pull
Entries 98
Mean −594.8
Std Dev 0
pull1D
Entries 98
Mean −0.04462
Std Dev 2.189

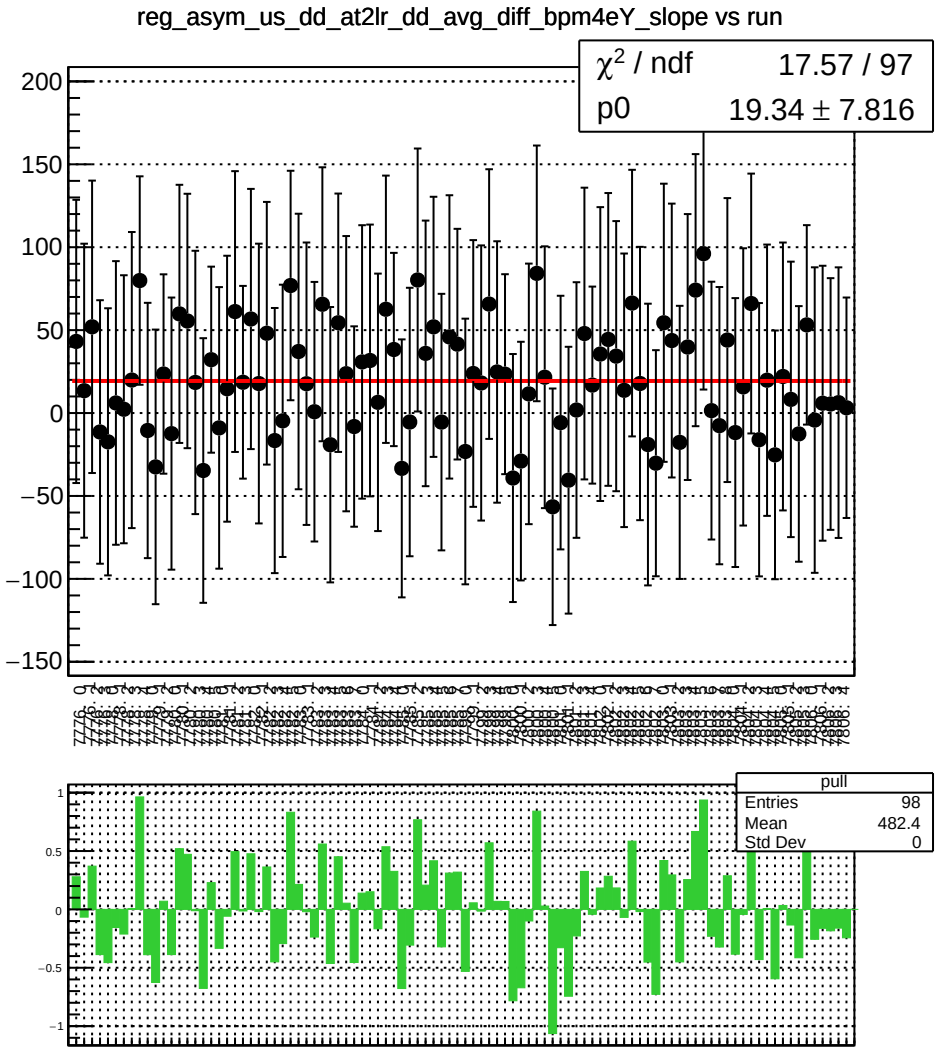

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 15.04 / 97
p0 −16.14 ± 6.719
150
100
50
0
−50
−100
−150
pull
Entries 98
Mean −63.56
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean 0.01066
Std Dev 0.3916
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

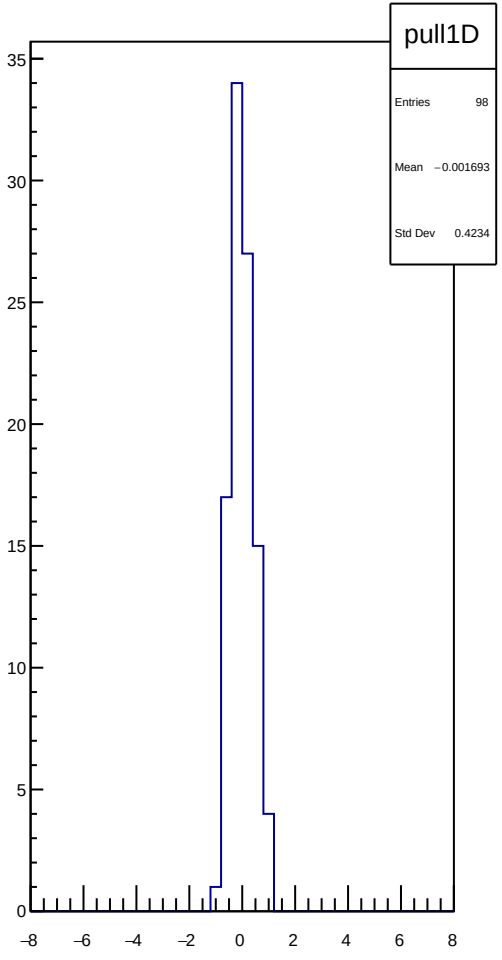

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.69 / 97
p0 −16.5 ± 6.91
100
50
0
−50
−100
−150
pull
Entries 98
Mean 1419
Std Dev 0
1
0.5
0
−0.5
−1

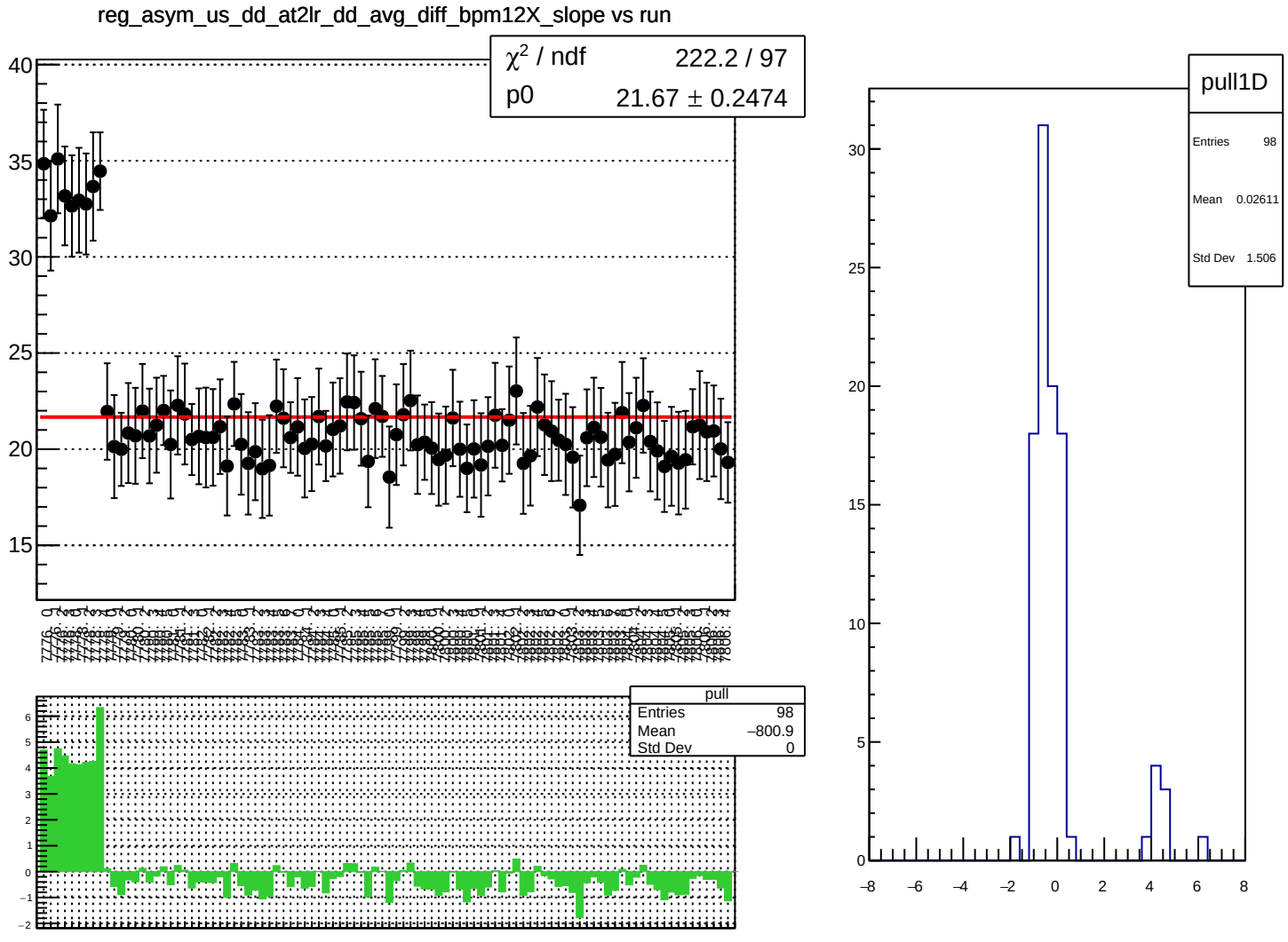

pull1D
Entries 98
Mean 0.0009955
Std Dev 0.4249
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

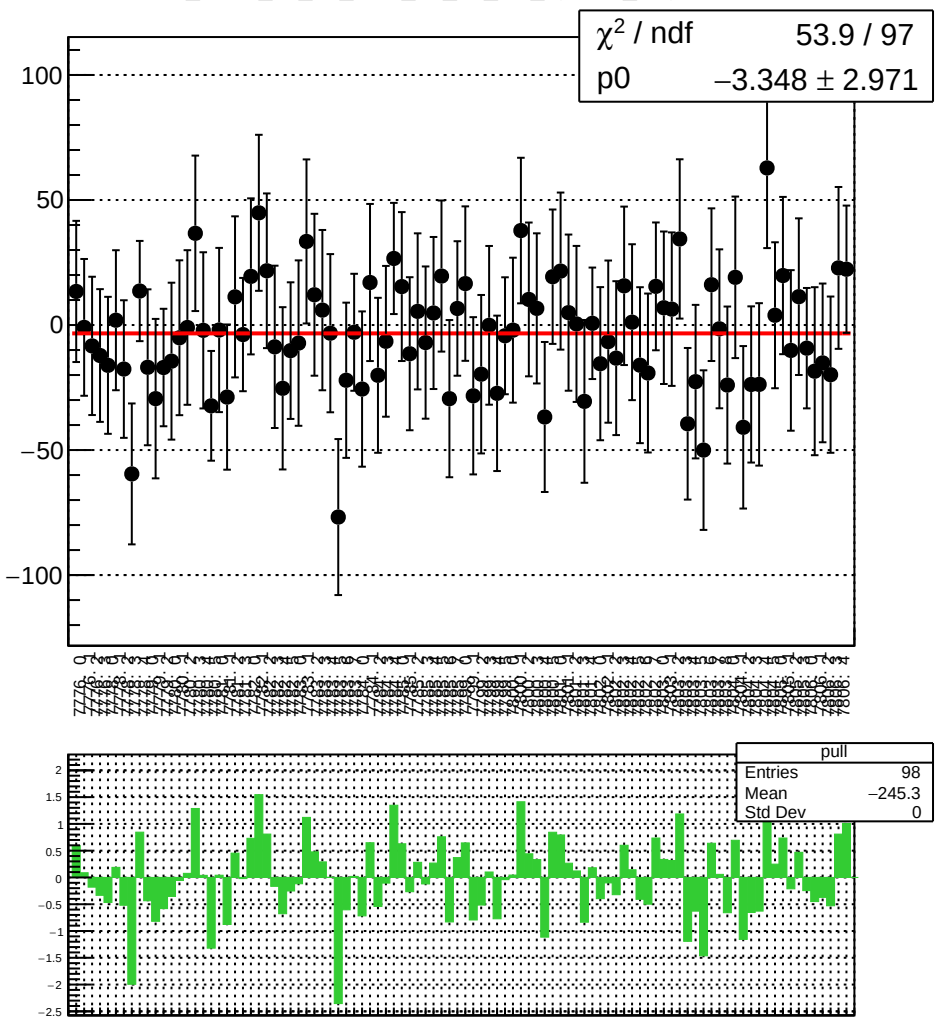

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.34 / 97
p0 −134.9 ± 5.842
pull
Entries 98
Mean −83.38
Std Dev 0

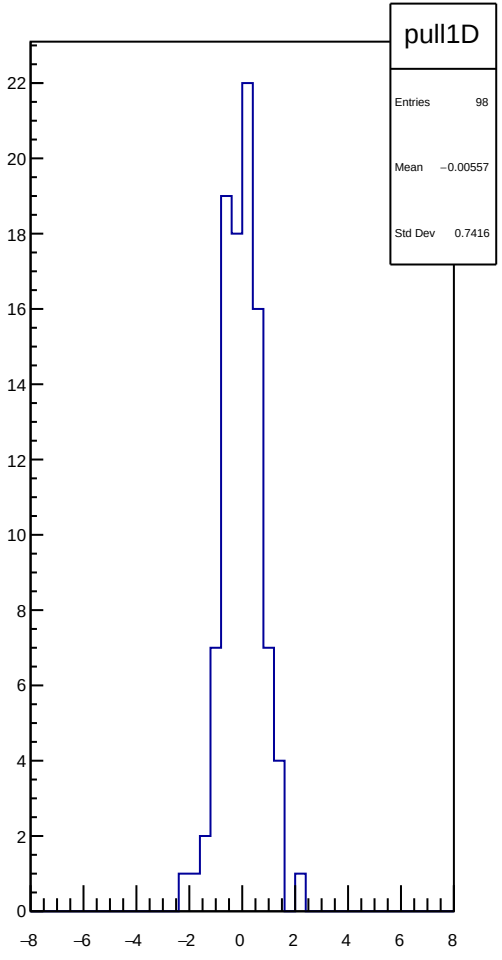

pull1D
Entries 98
Mean −0.0111
Std Dev 0.3954

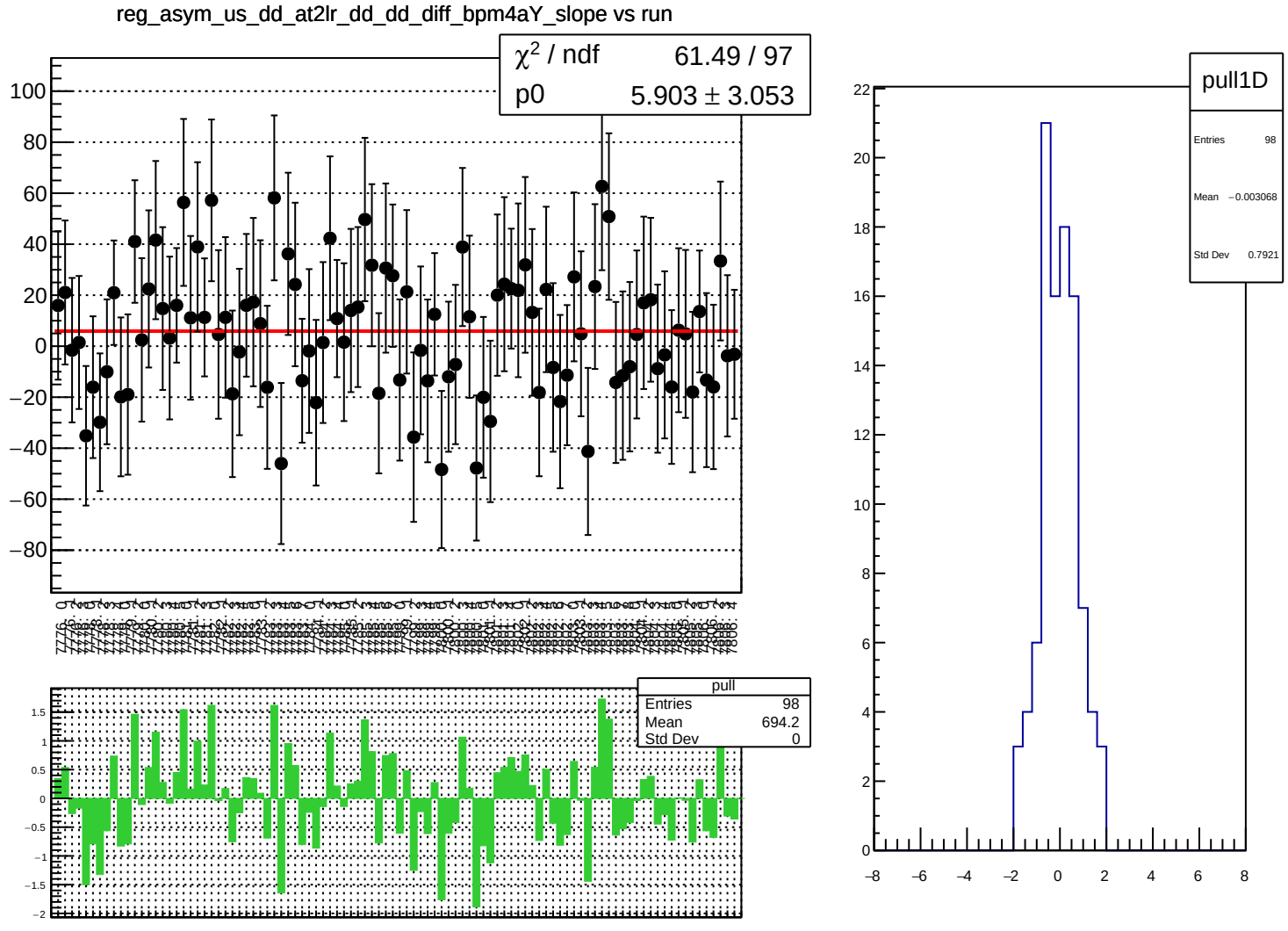

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.57 / 97
p0 19.34 ± 7.816
pull
Entries 98
Mean 482.4
Std Dev 0

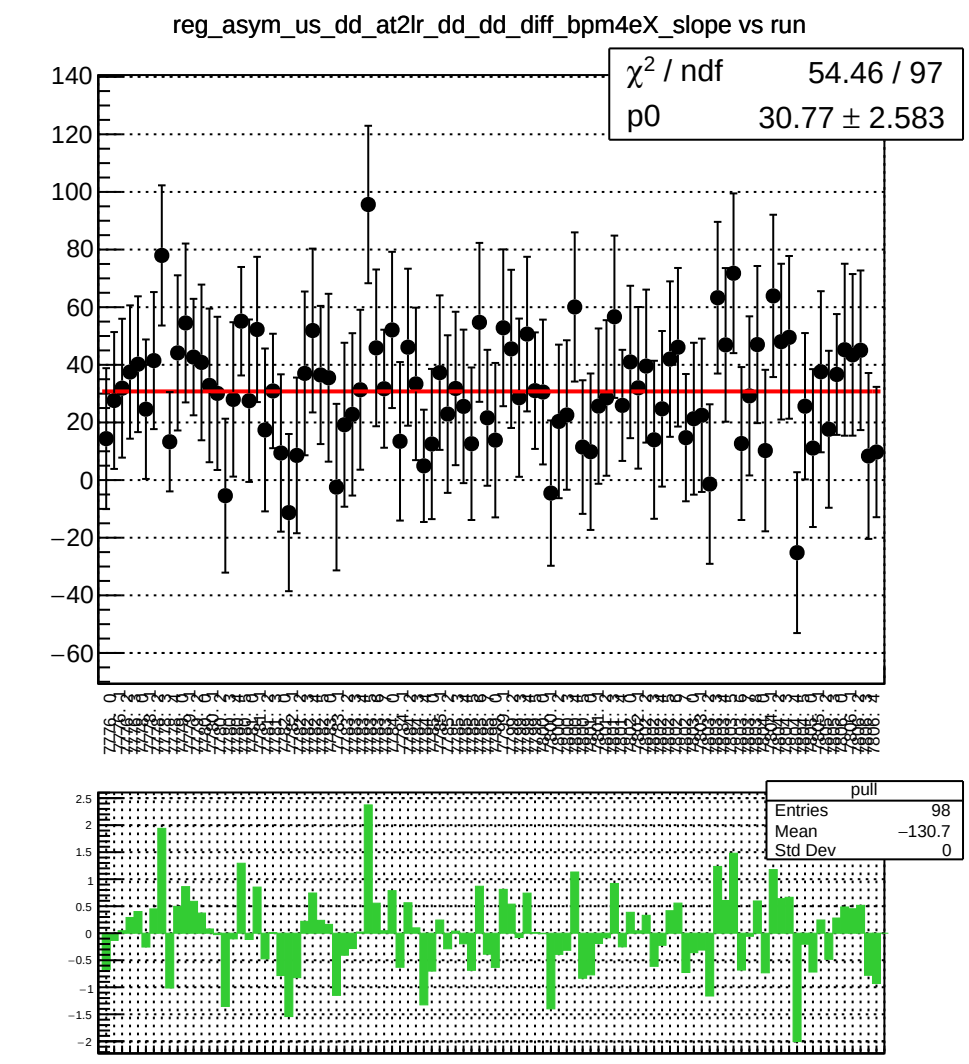

pull1D
Entries 98
Mean −0.001693
Std Dev 0.4234

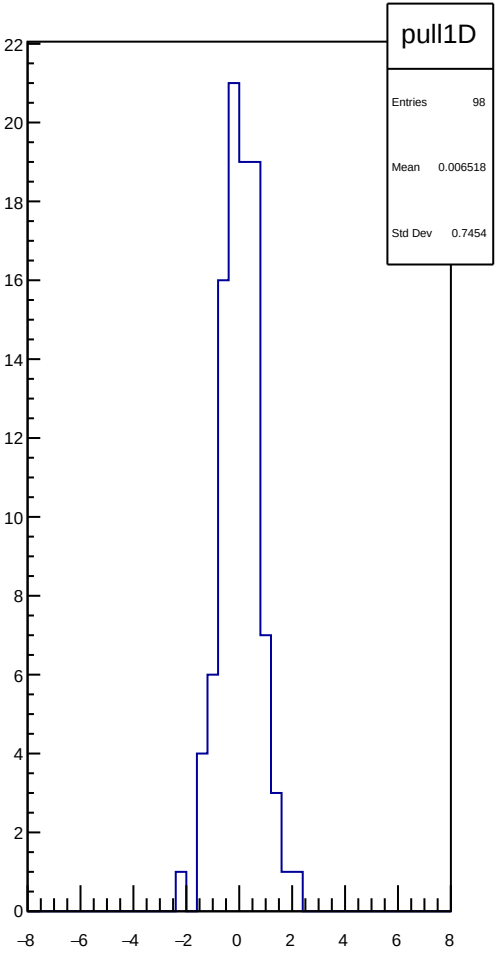

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 222.2 / 97
p0 21.67 ± 0.2474
pull
Entries 98
Mean −800.9
Std Dev 0
pull1D
Entries 98
Mean 0.02611
Std Dev 1.506

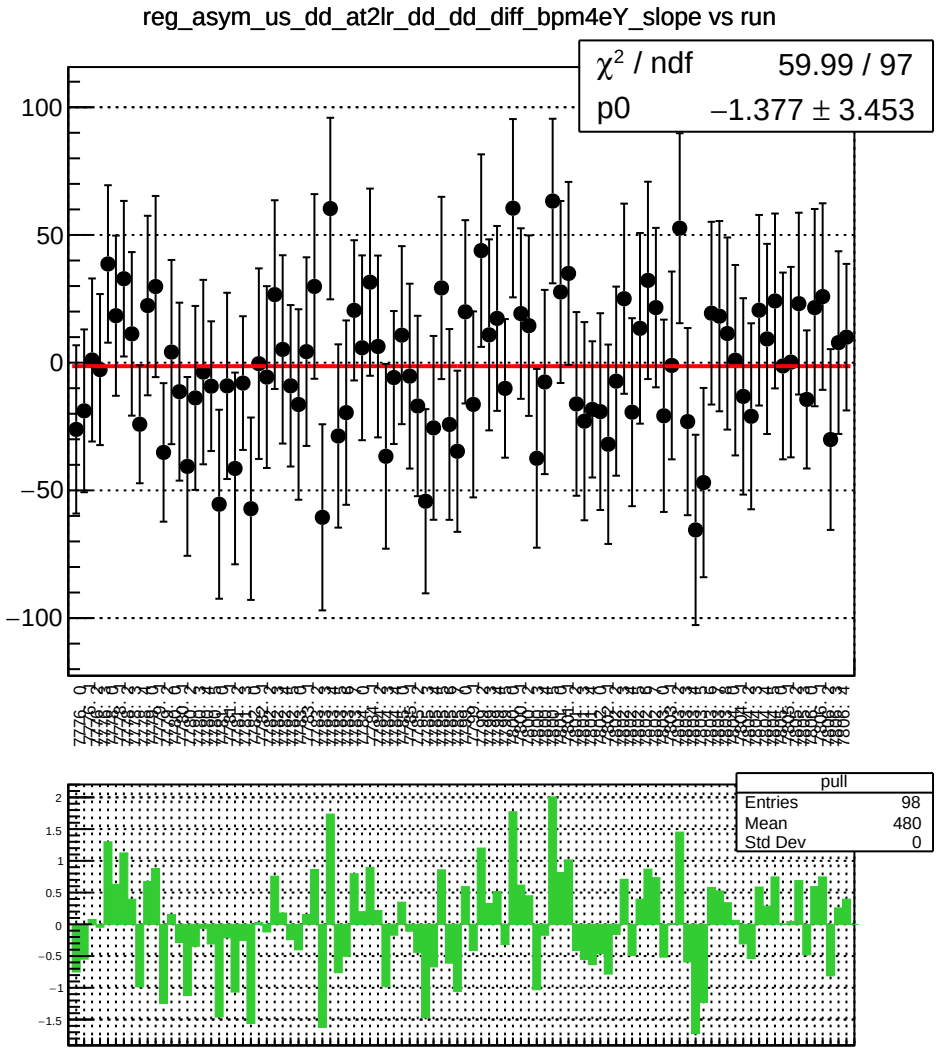

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 53.9 / 97
p0 −3.348 ± 2.971
pull
Entries 98
Mean −245.3
Std Dev 0

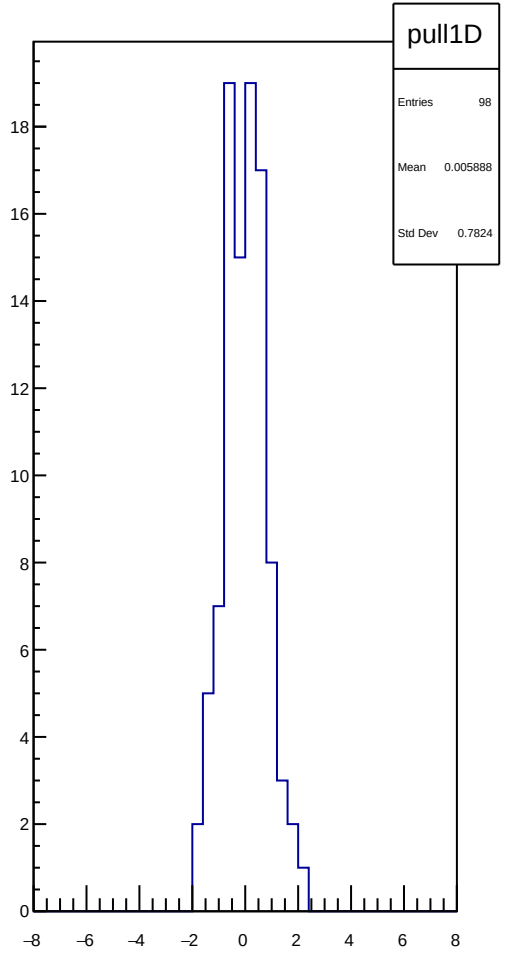

pull1D
Entries 98
Mean −0.00557
Std Dev 0.7416

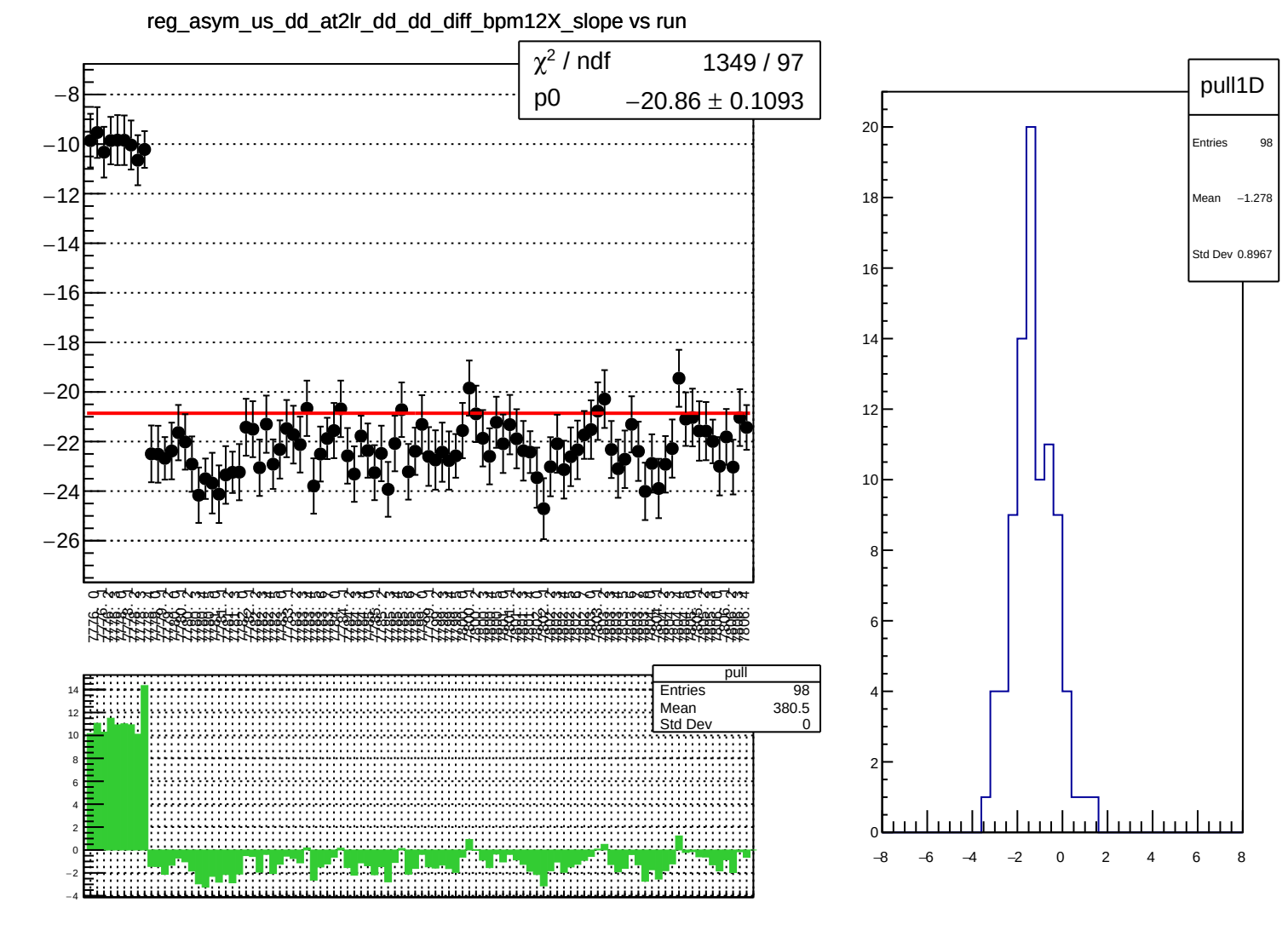

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.49 / 97
p0 5.903 ± 3.053
pull
Entries 98
Mean 694.2
Std Dev 0
pull1D
Entries 98
Mean −0.003068
Std Dev 0.7921

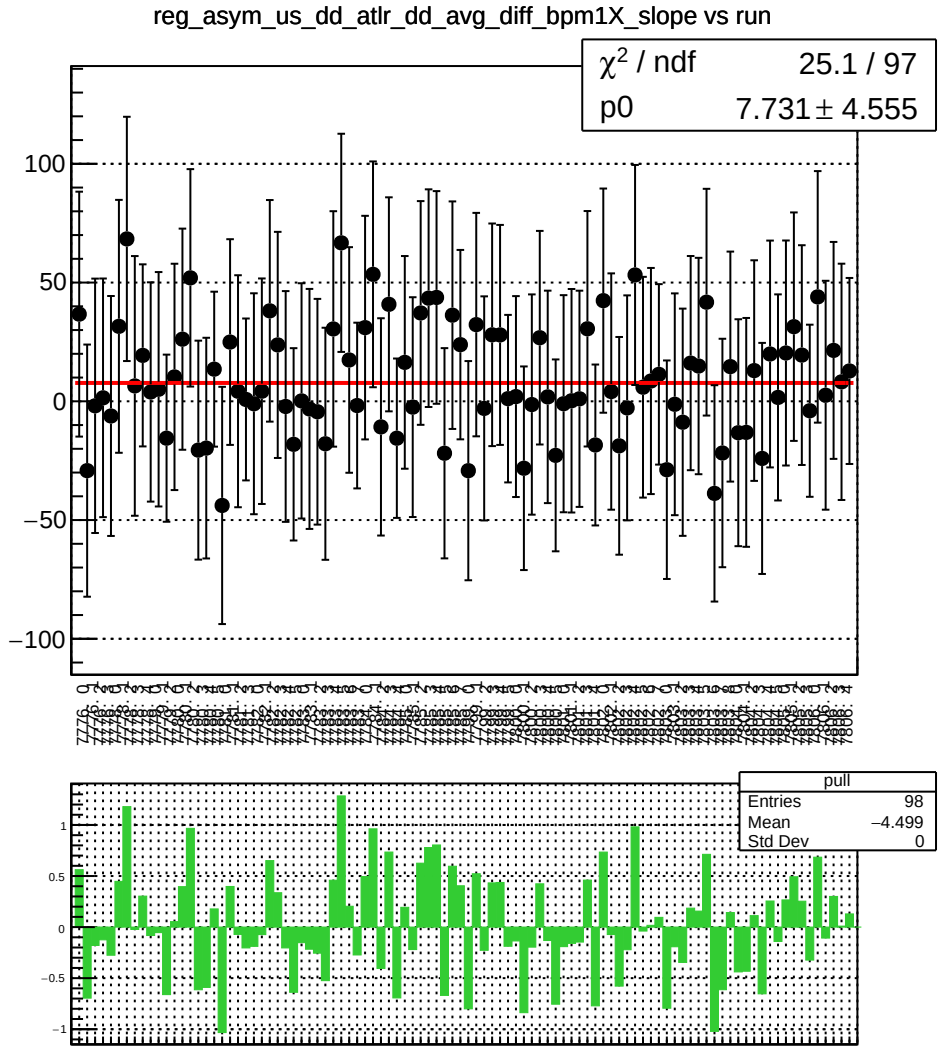

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.46 / 97
p0 30.77 ± 2.583
pull
Entries 98
Mean −130.7
Std Dev 0

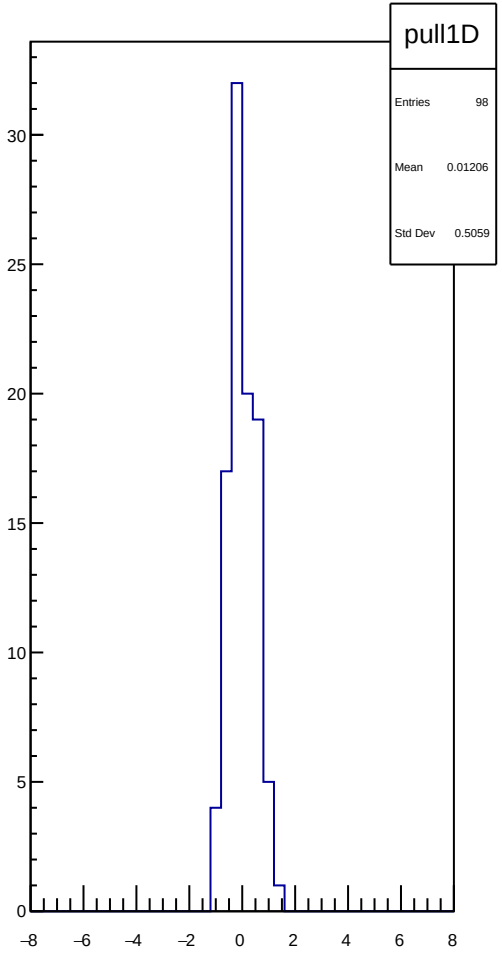

pull1D
Entries 98
Mean 0.006518
Std Dev 0.7454

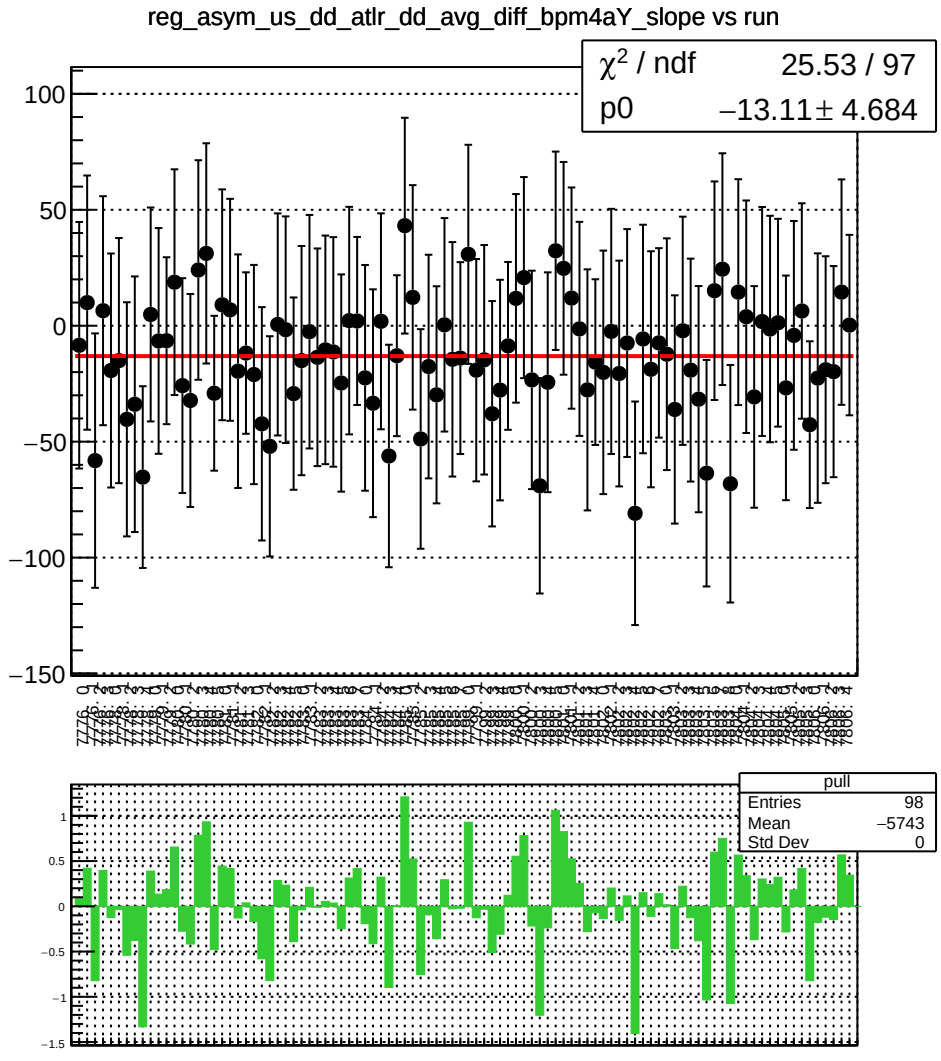

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.99 / 97
p0 −1.377 ± 3.453
100
50
0
−50
−100
pull
Entries 98
Mean 480
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

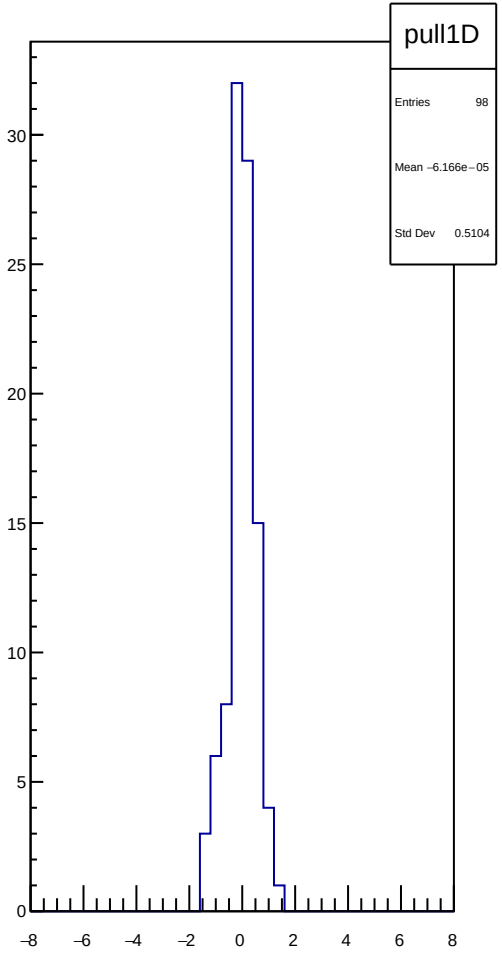

pull1D
Entries 98
Mean 0.005888
Std Dev 0.7824
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

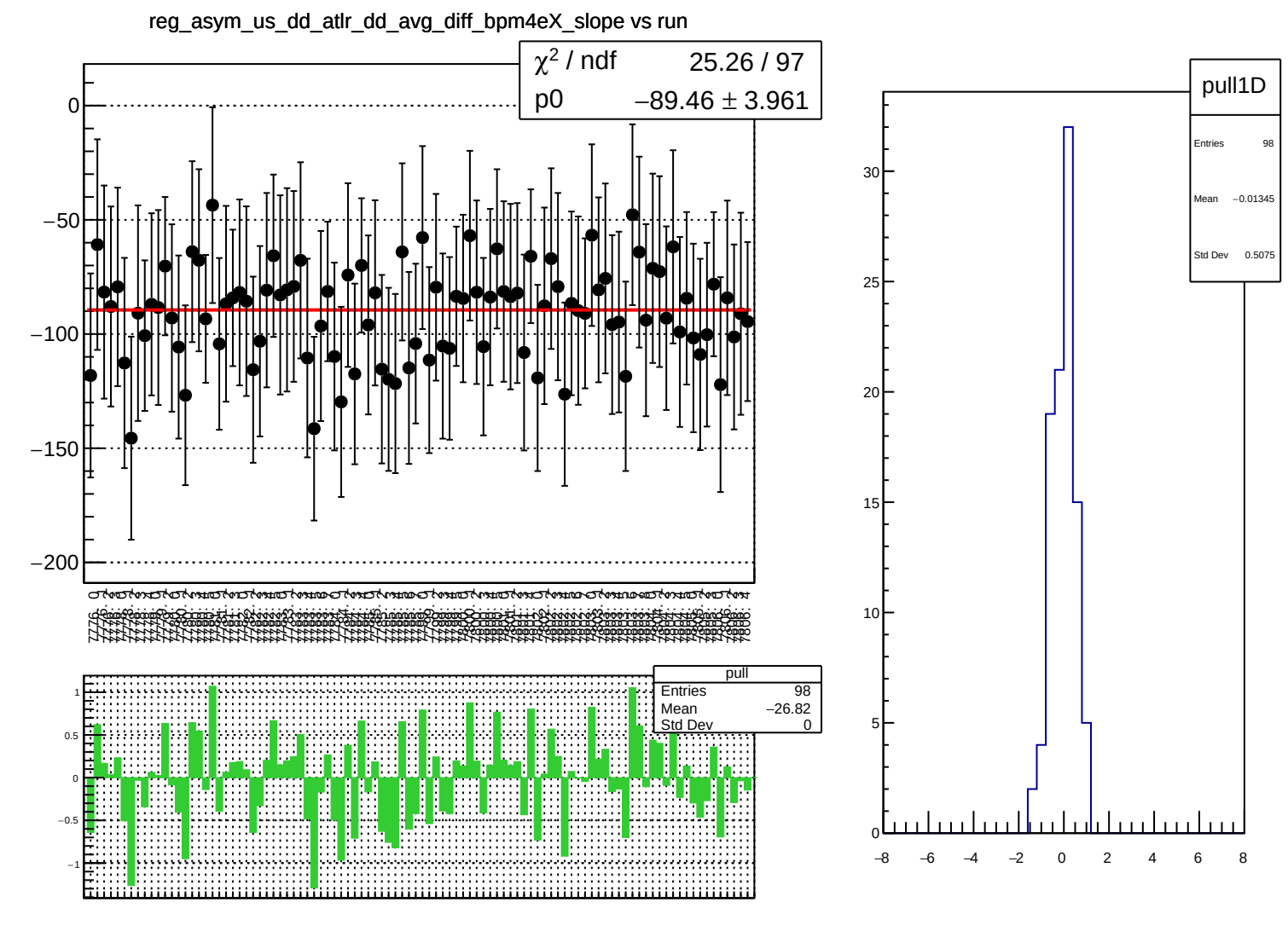

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 1349 / 97
p0 −20.86 ± 0.1093
pull
Entries 98
Mean 380.5
Std Dev 0
pull1D
Entries 98
Mean −1.278
Std Dev 0.8967

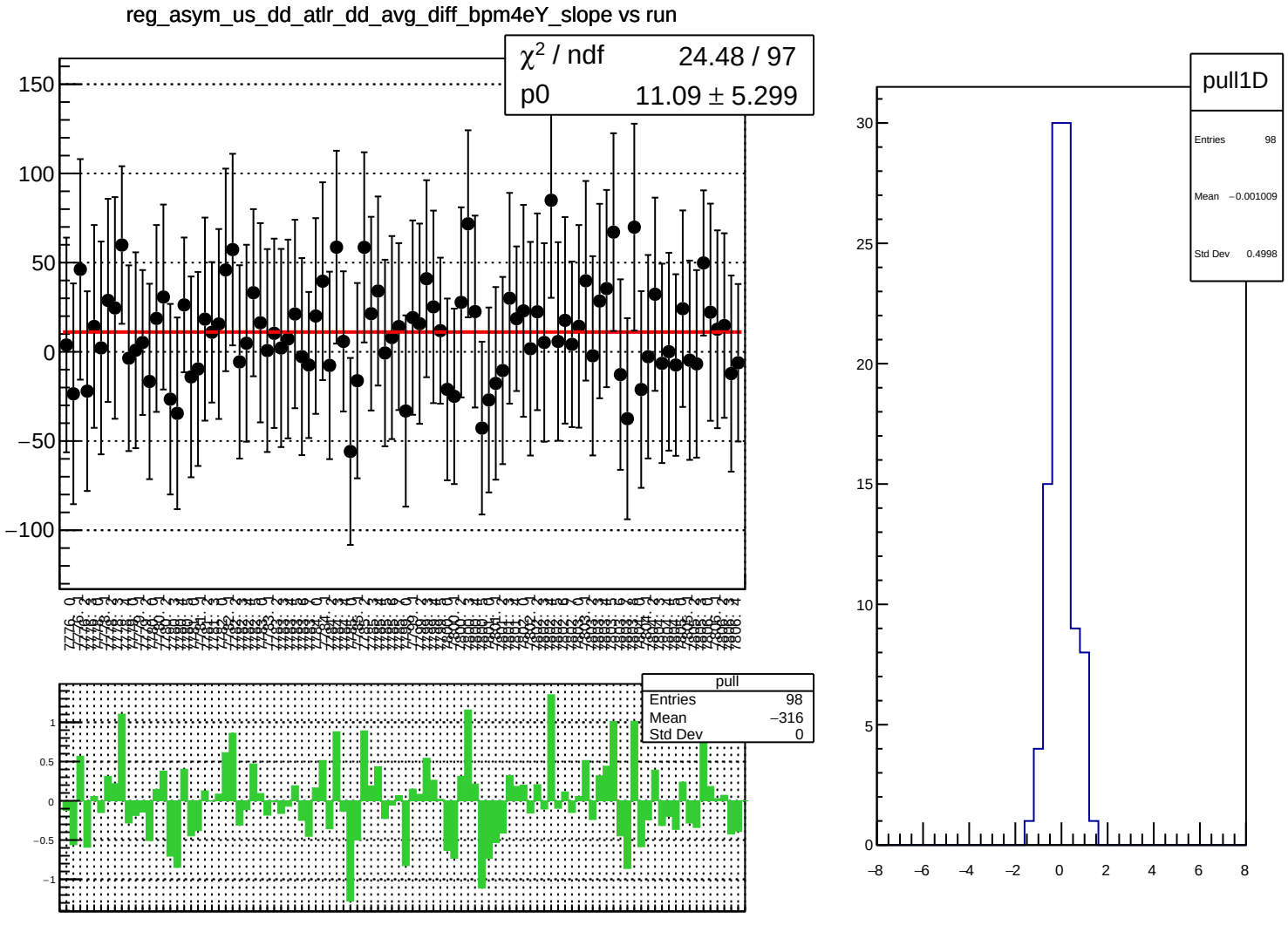

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 25.1 / 97
p0 7.731 ± 4.555
100
50
0
−50
−100
pull
Entries 98
Mean −4.499
Std Dev 0
1
0.5
0
−0.5
−1

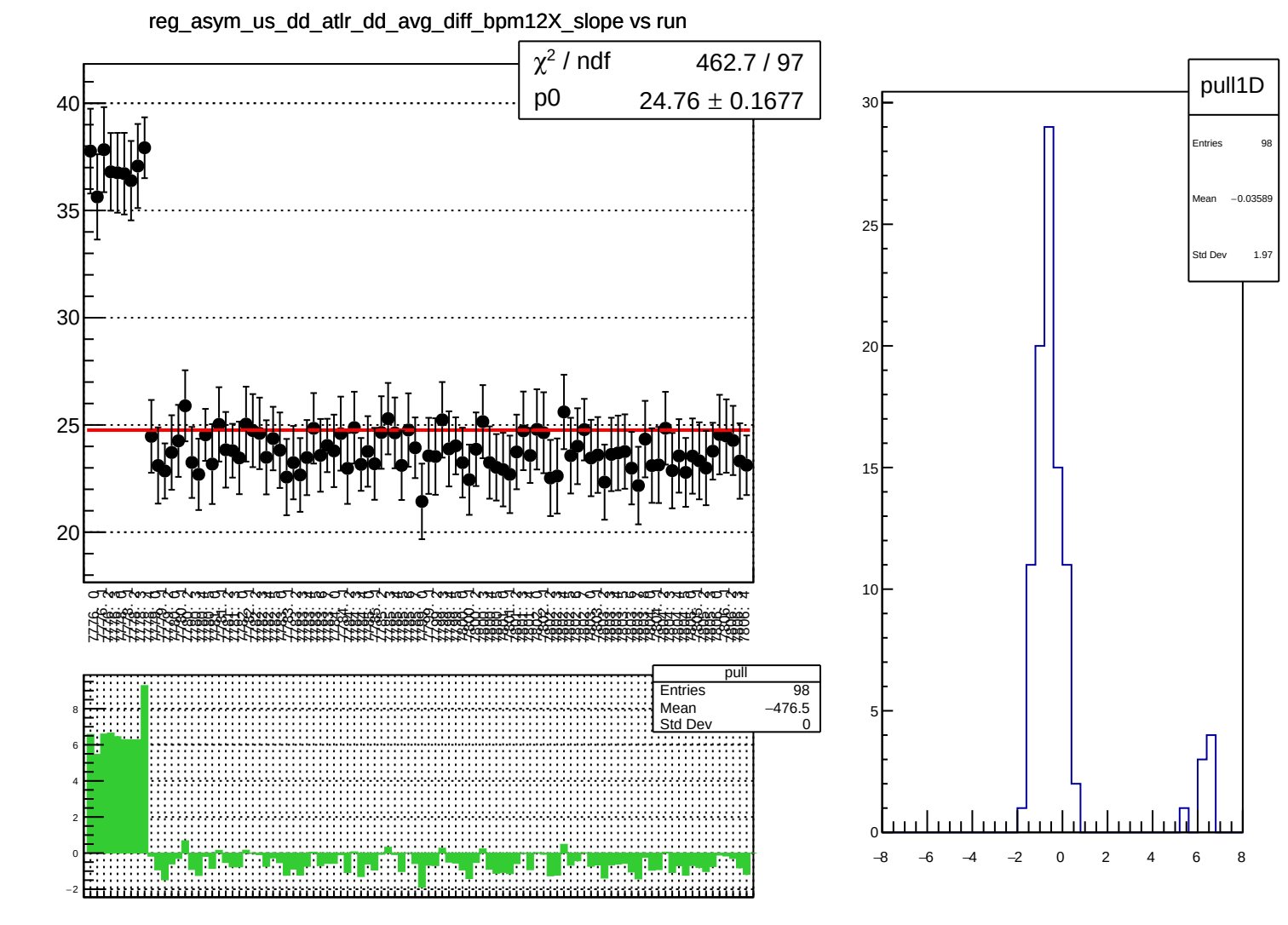

pull1D
Entries 98
Mean 0.01206
Std Dev 0.5059
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

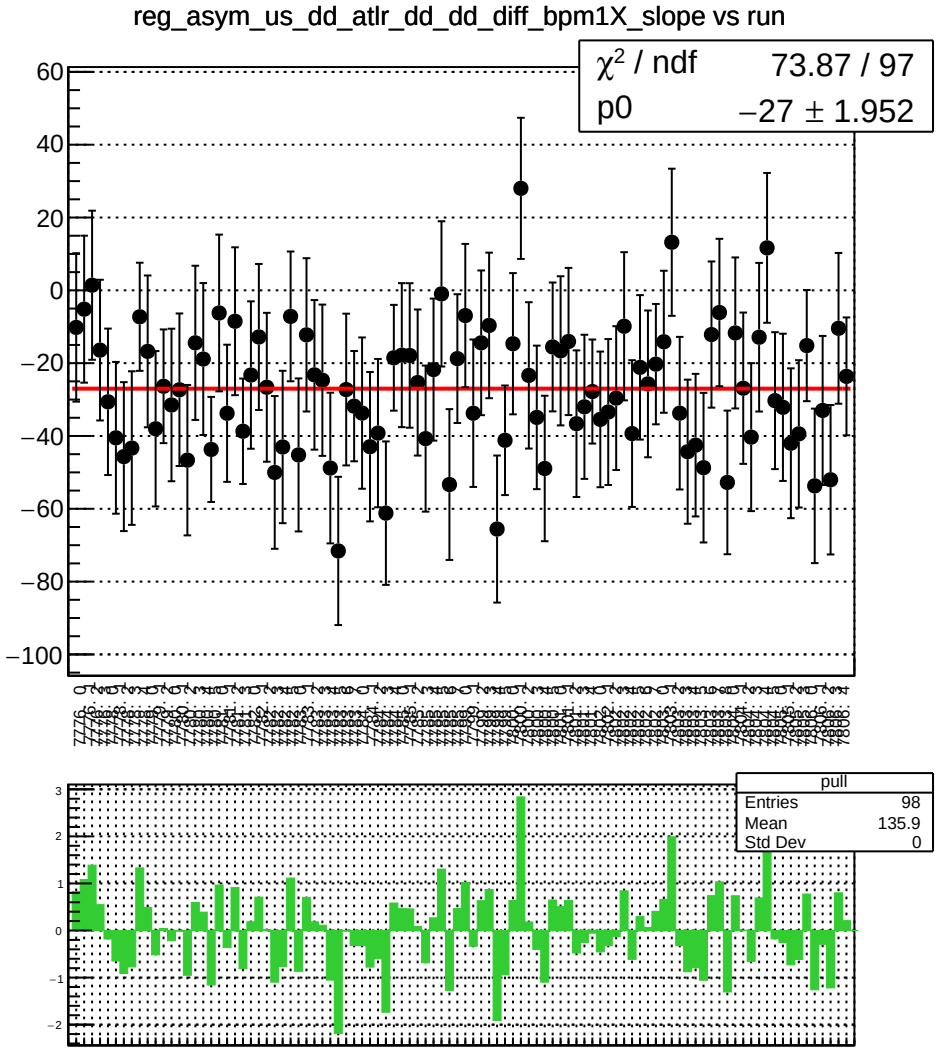

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.53 / 97
p0 −13.11 ± 4.684
pull
Entries 98
Mean −5743
Std Dev 0

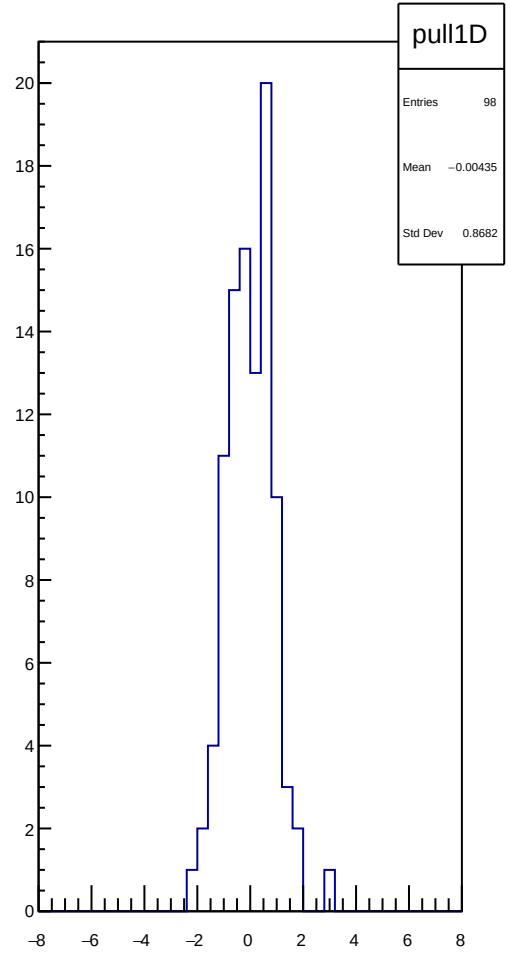

pull1D
Entries 98
Mean −6.166e−05
Std Dev 0.5104

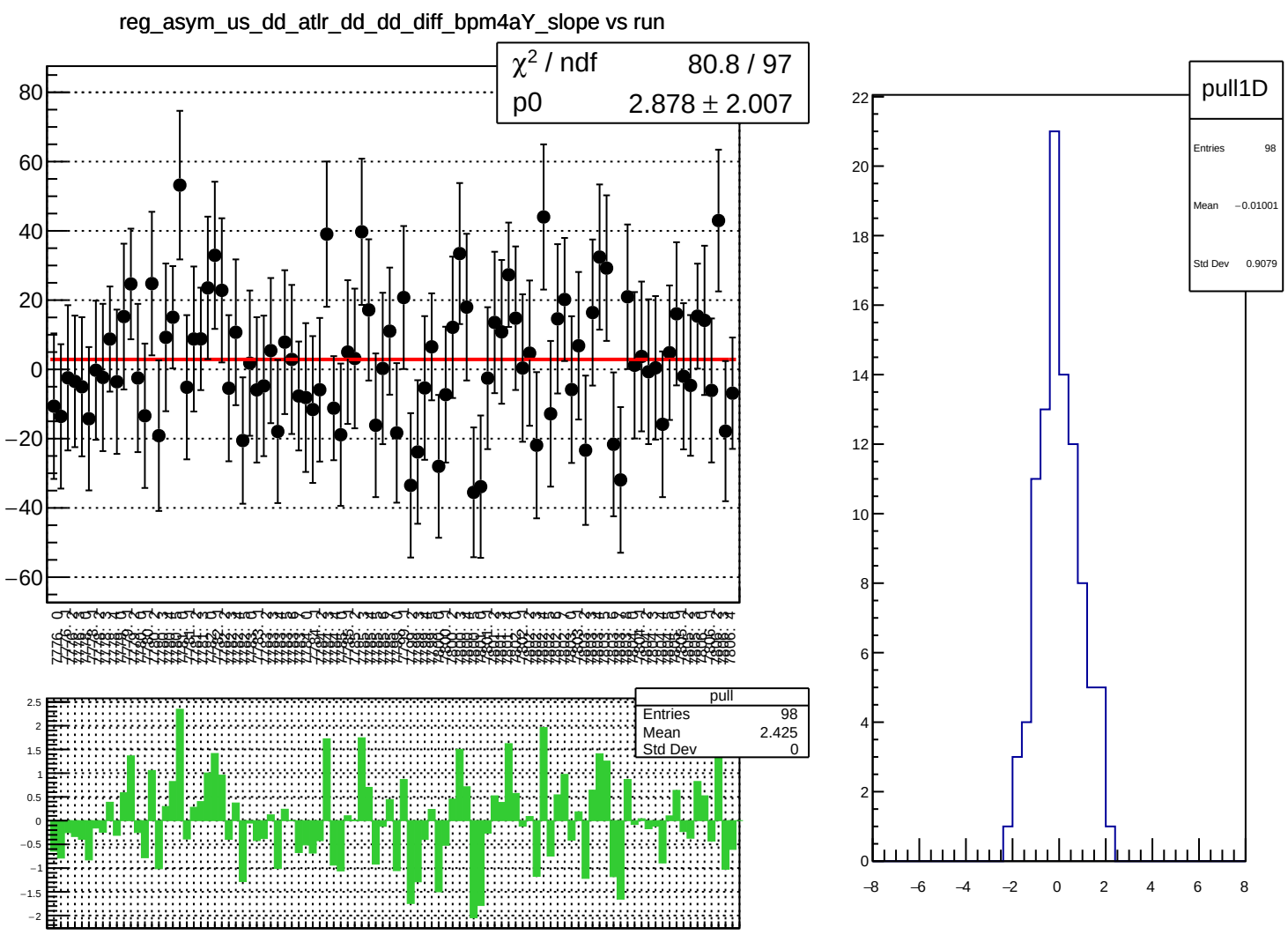

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.26 / 97
p0 −89.46 ± 3.961
0
−50
−100
−150
−200
pull
Entries 98
Mean −26.82
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean −0.01345
Std Dev 0.5075
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

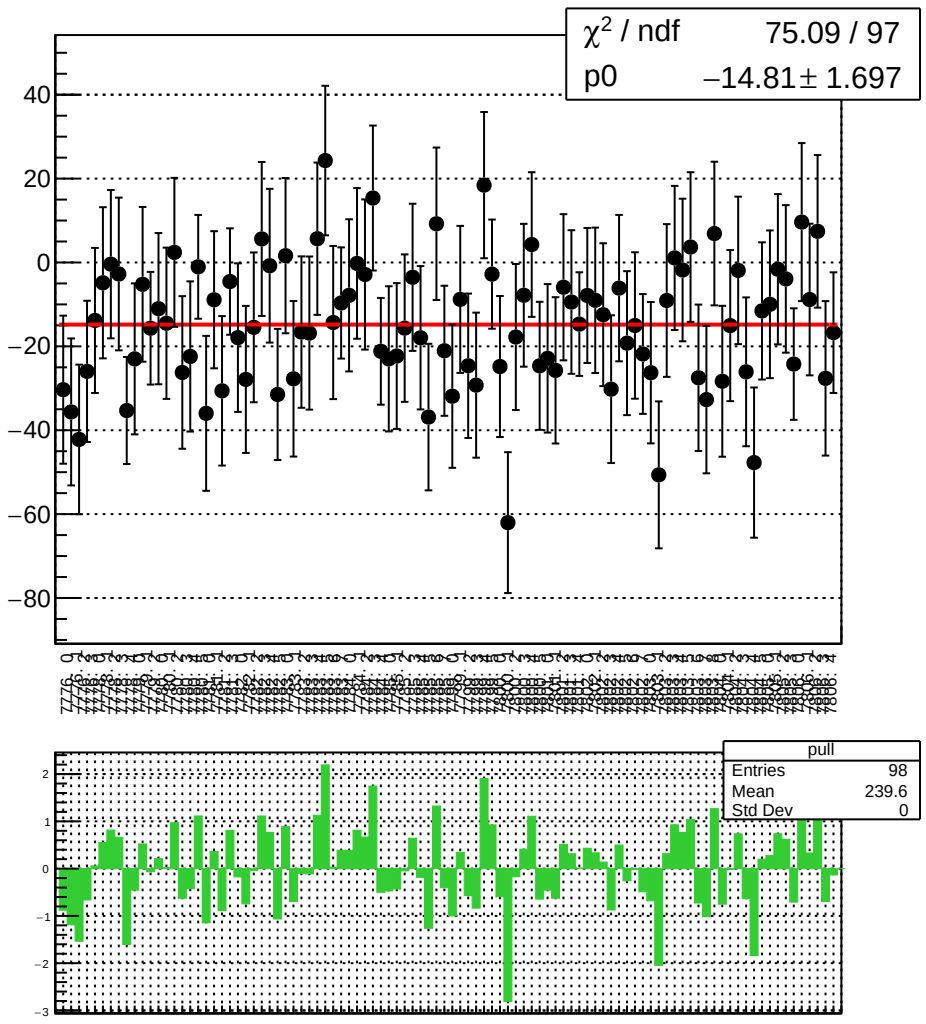

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.48 / 97
p0 11.09 ± 5.299
150
100
50
0
−50
−100
pull
Entries 98
Mean −316
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 98
Mean −0.001009
Std Dev 0.4998
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

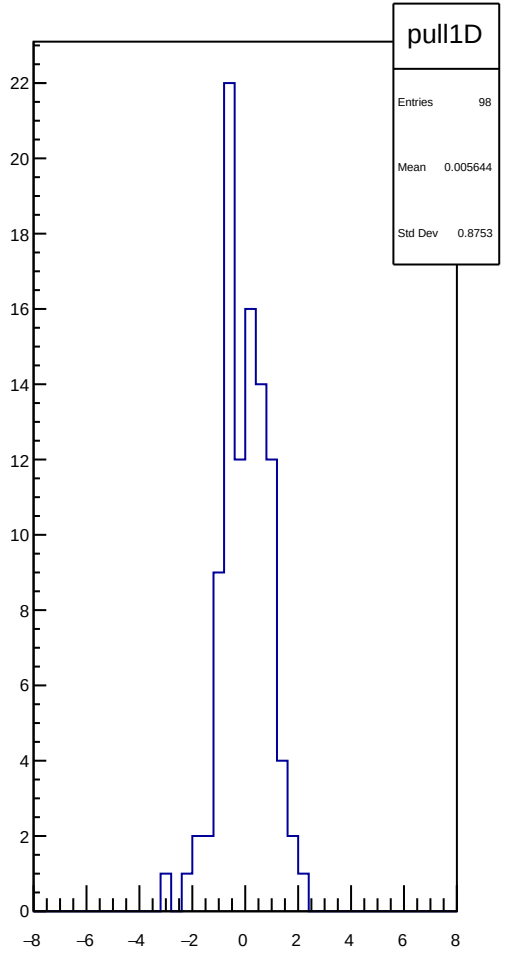

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 462.7 / 97
p0 24.76 ± 0.1677
pull
Entries 98
Mean −476.5
Std Dev 0
pull1D
Entries 98
Mean −0.03589
Std Dev 1.97

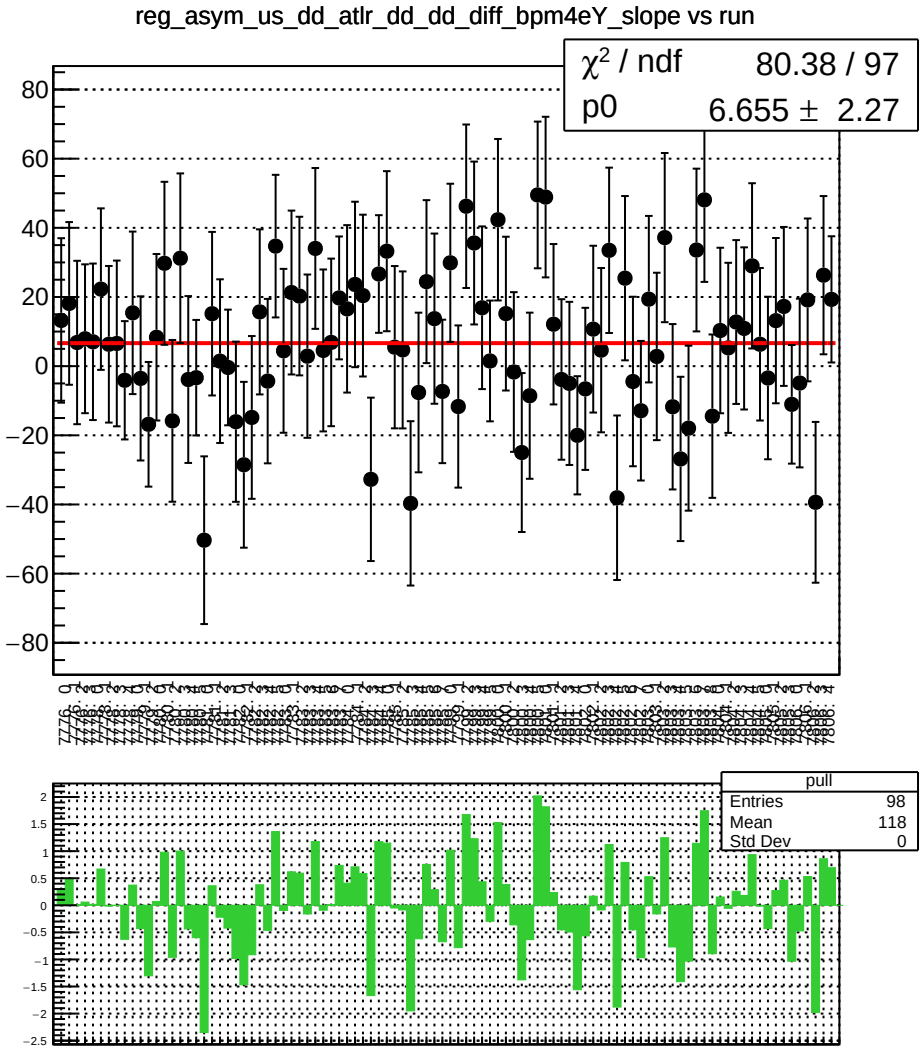

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.87 / 97
p0 −27 ± 1.952
pull
Entries 98
Mean 135.9
Std Dev 0

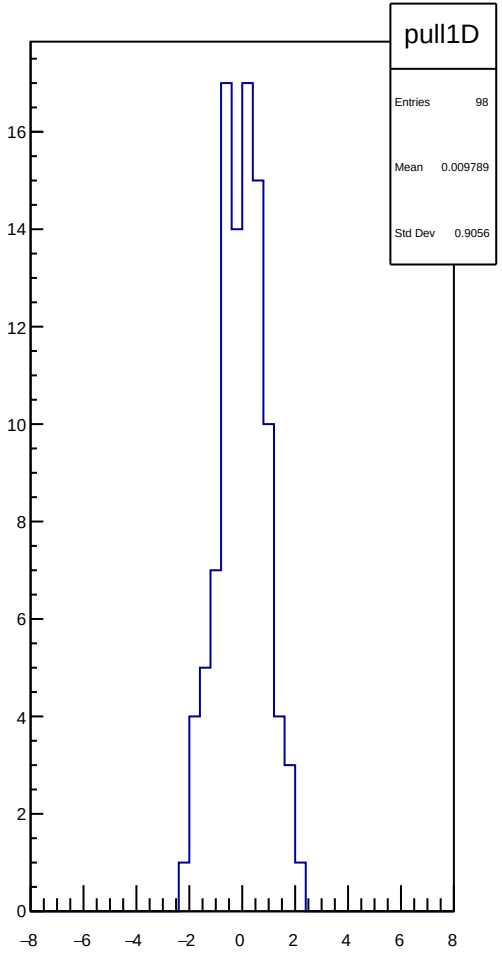

pull1D
Entries 98
Mean −0.00435
Std Dev 0.8682

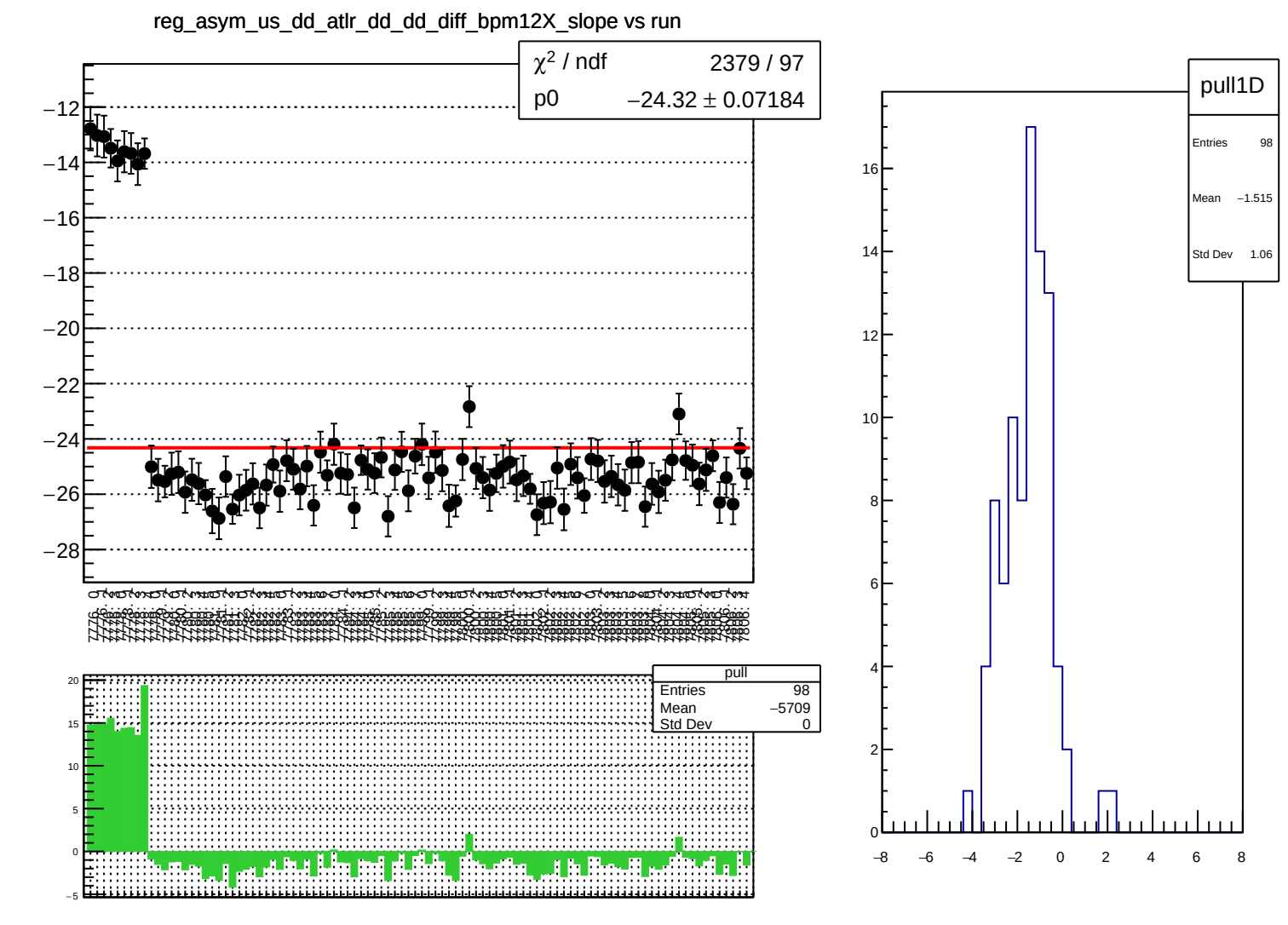

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.8 / 97
p0 2.878 ± 2.007
pull
Entries 98
Mean 2.425
Std Dev 0
pull1D
Entries 98
Mean −0.01001
Std Dev 0.9079

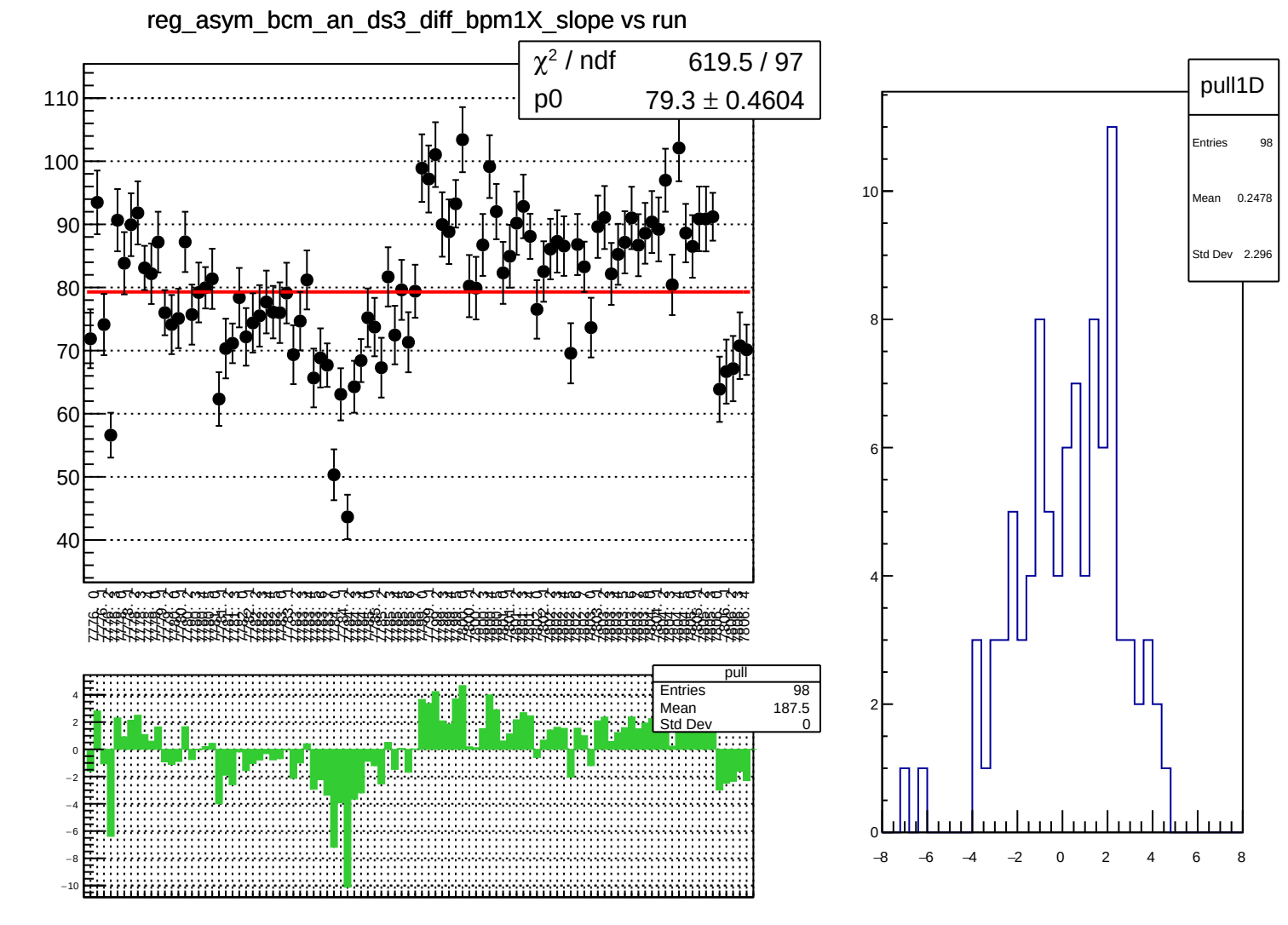

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.09 / 97
p0 −14.81± 1.697
pull
Entries 98
Mean 239.6
Std Dev 0

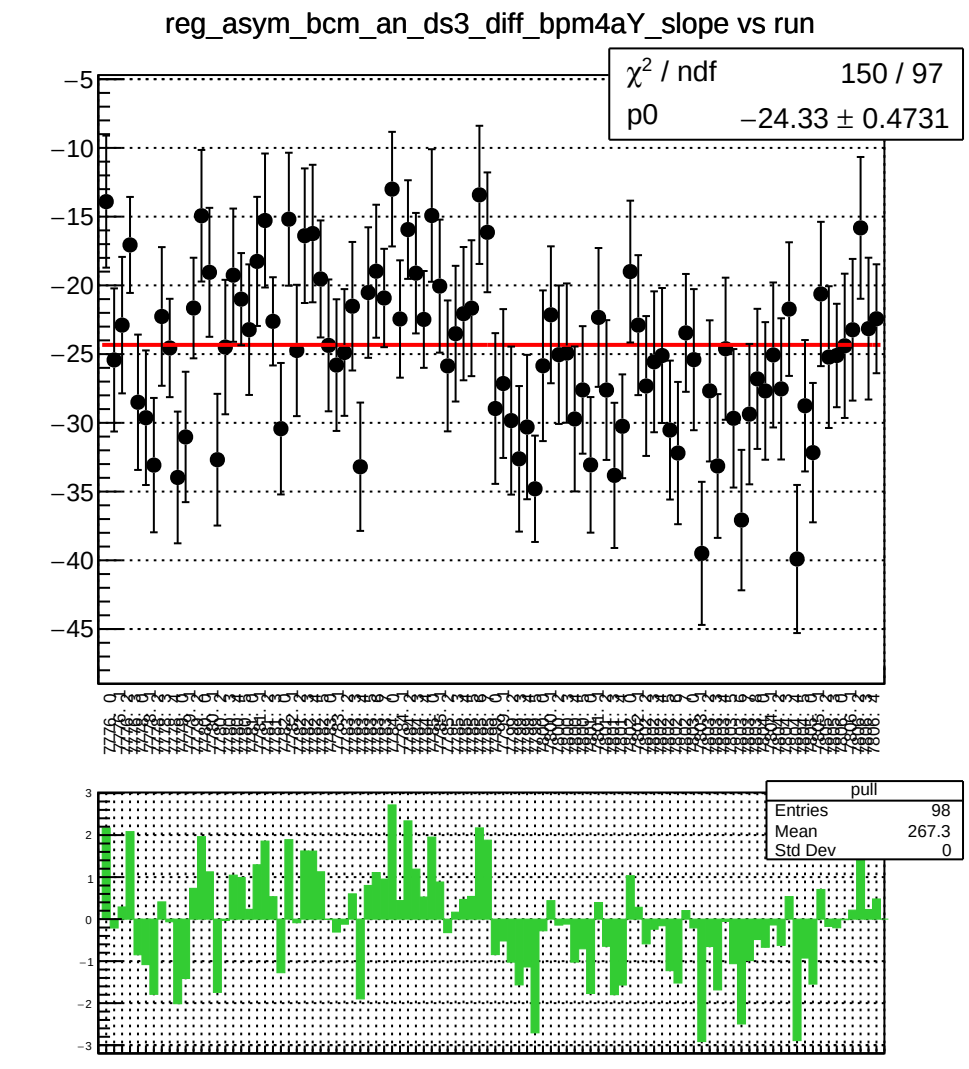

pull1D
Entries 98
Mean 0.005644
Std Dev 0.8753

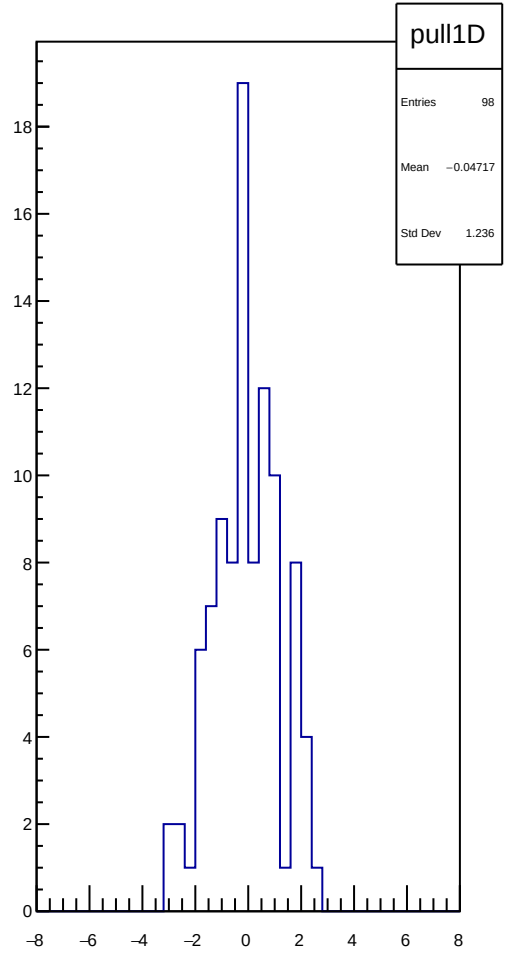

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.38 / 97
p0 6.655 ± 2.27
pull
Entries 98
Mean 118
Std Dev 0

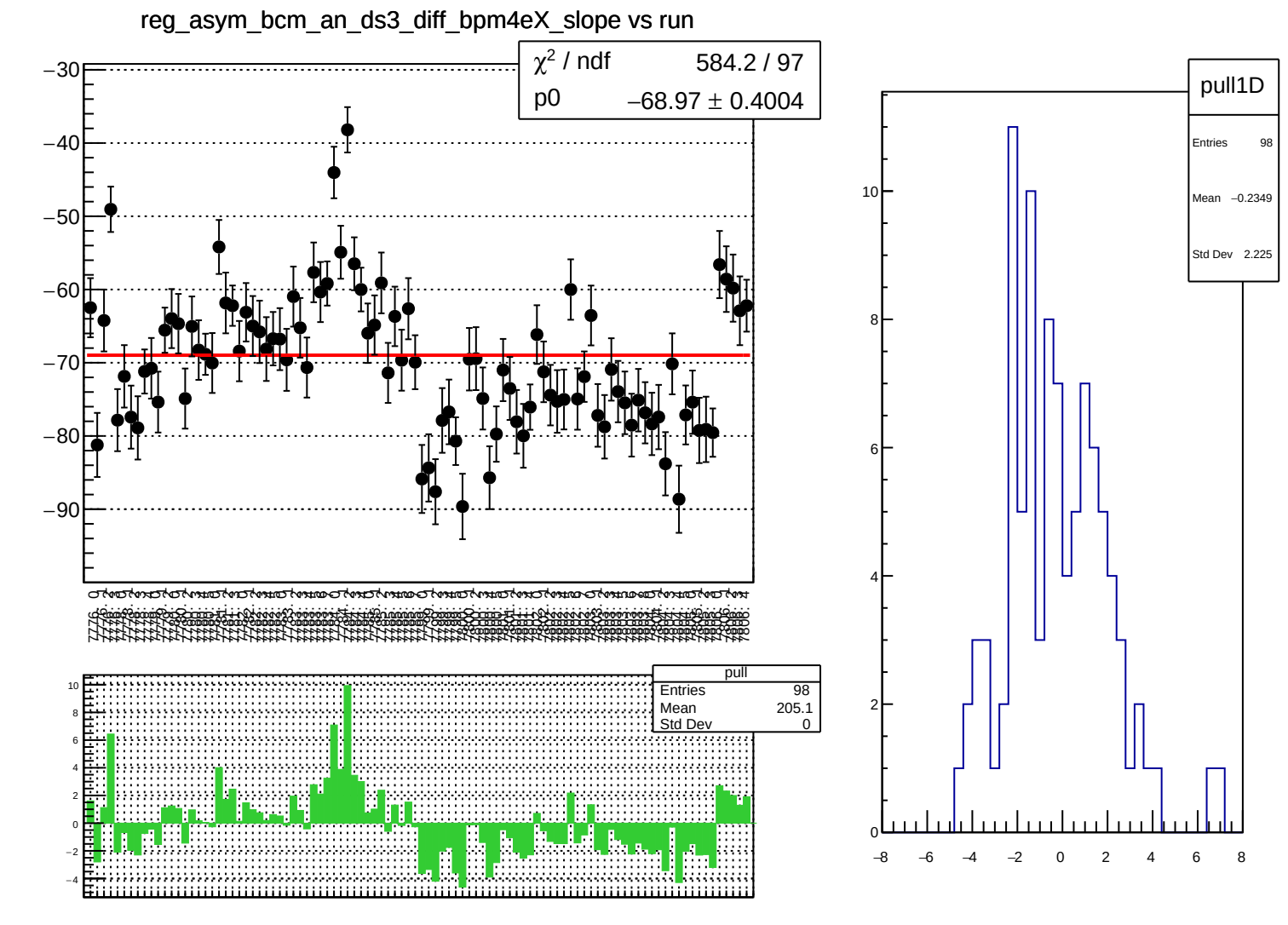

pull1D
Entries 98
Mean 0.009789
Std Dev 0.9056

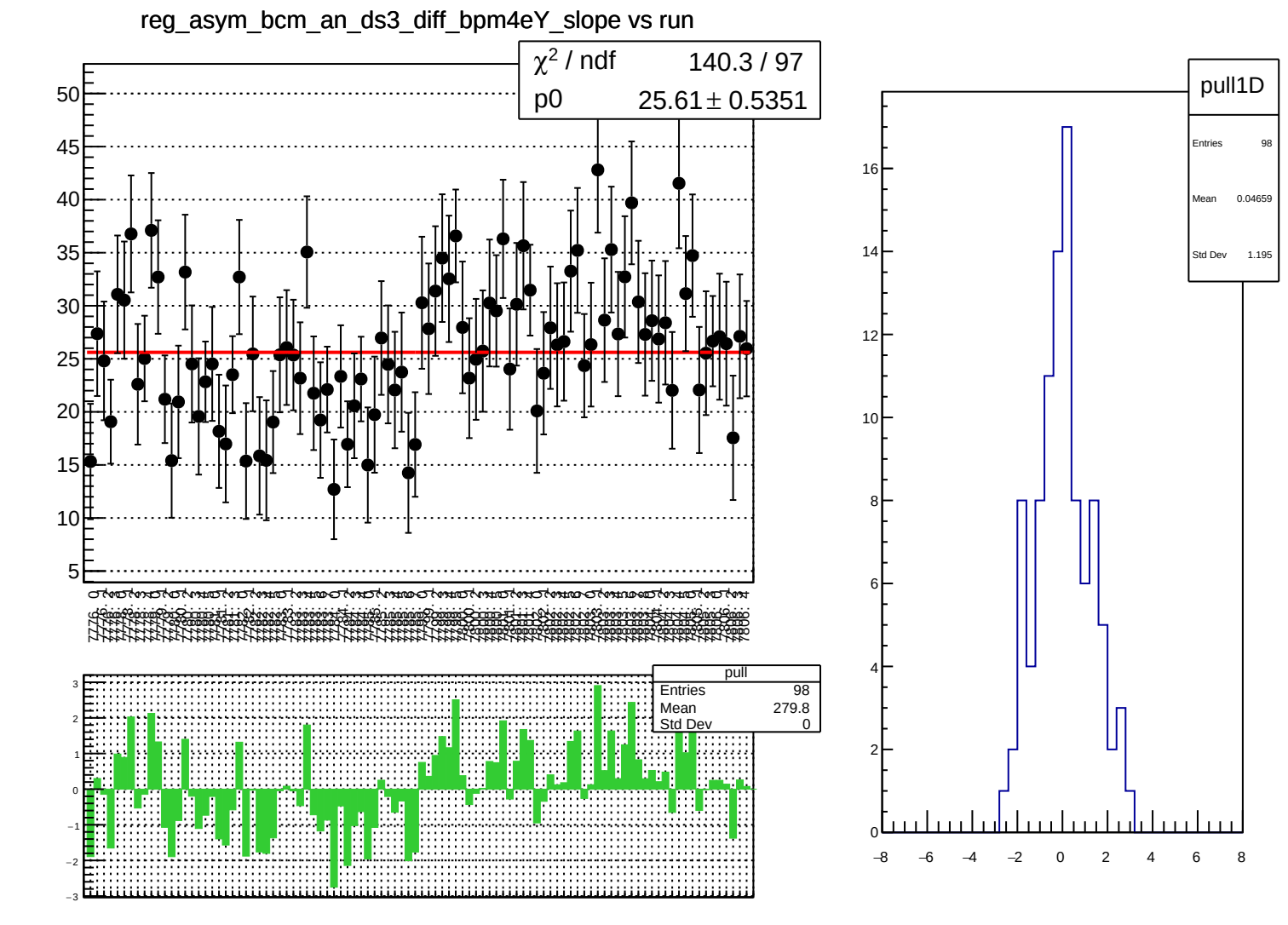

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 2379 / 97
p0 −24.32 ± 0.07184
pull
Entries 98
Mean −5709
Std Dev 0
pull1D
Entries 98
Mean −1.515
Std Dev 1.06

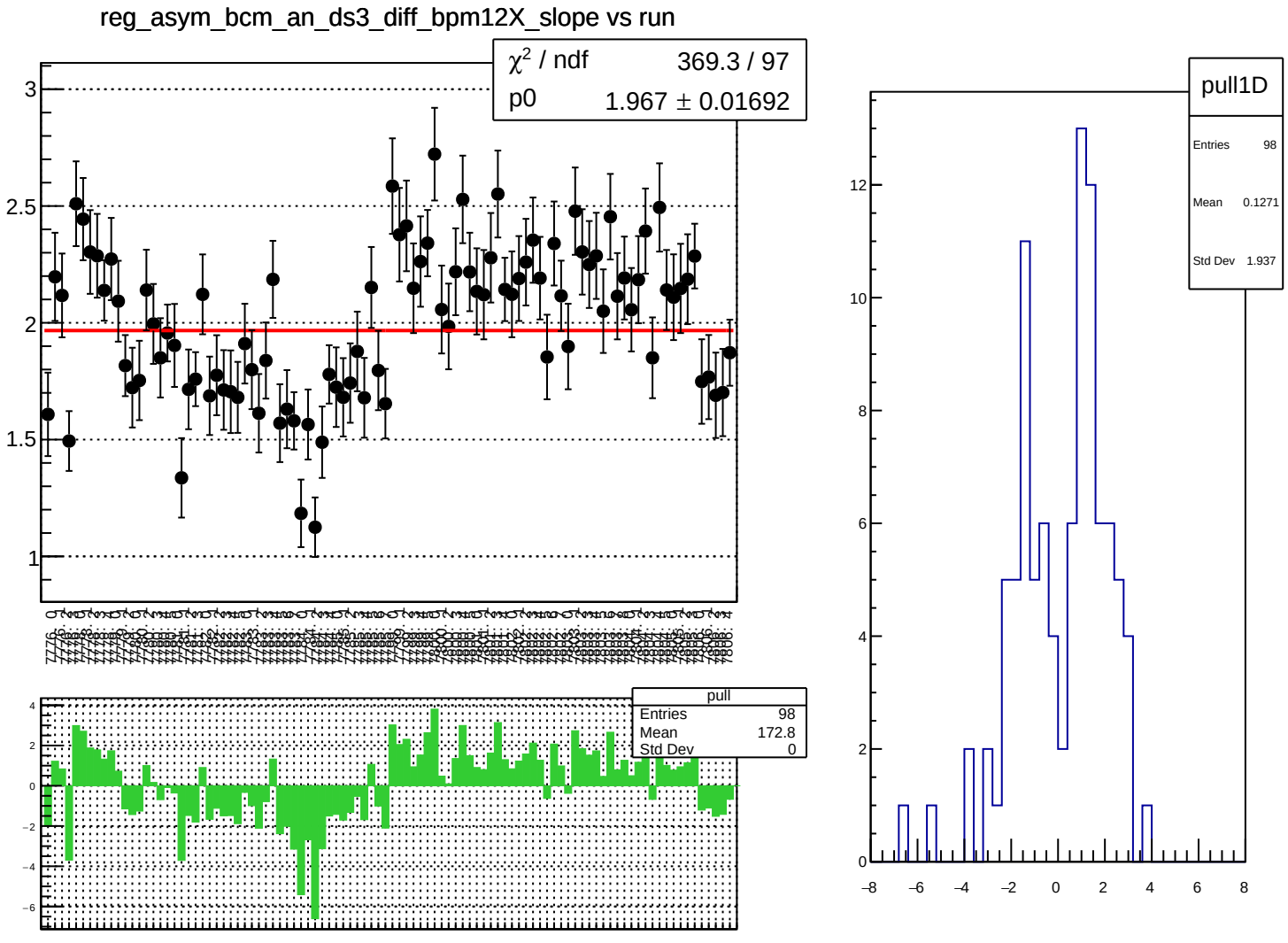

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 619.5 / 97
p0 79.3 ± 0.4604
pull
Entries 98
Mean 187.5
Std Dev 0
pull1D
Entries 98
Mean 0.2478
Std Dev 2.296

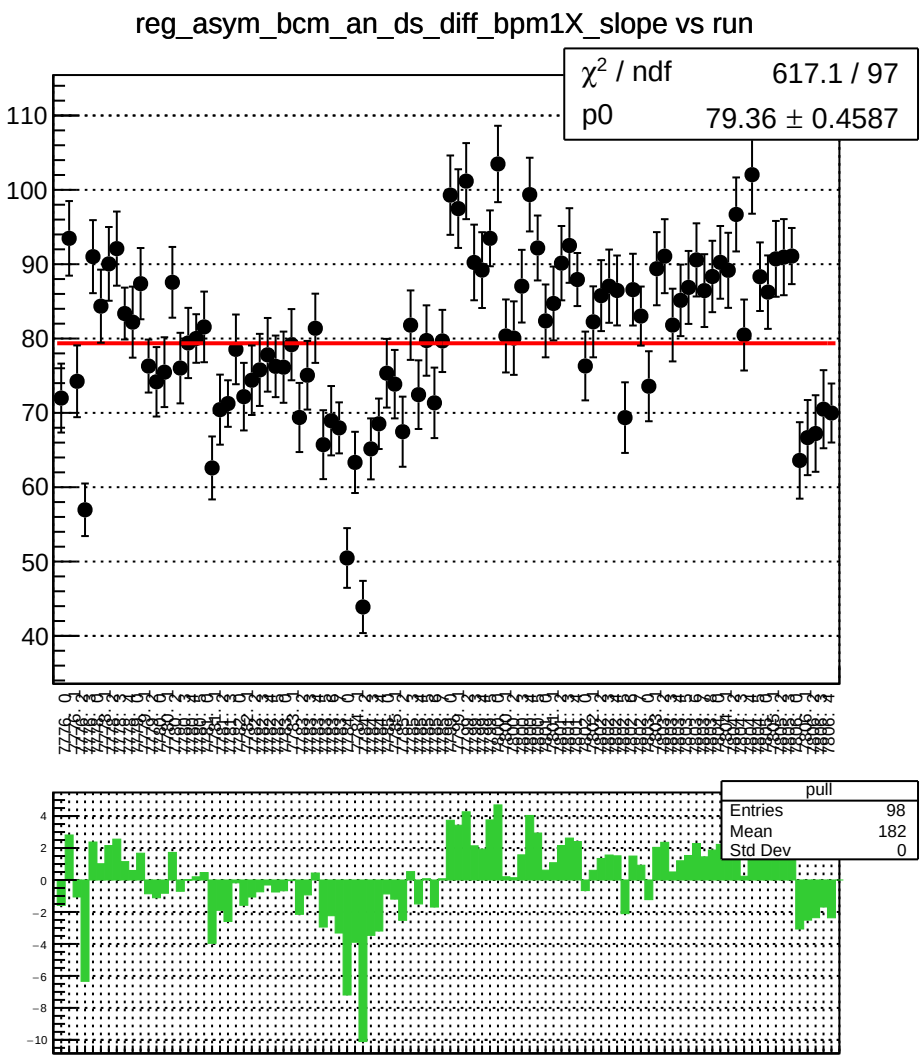

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 150 / 97
p0 −24.33 ± 0.4731
pull
Entries 98
Mean 267.3
Std Dev 0

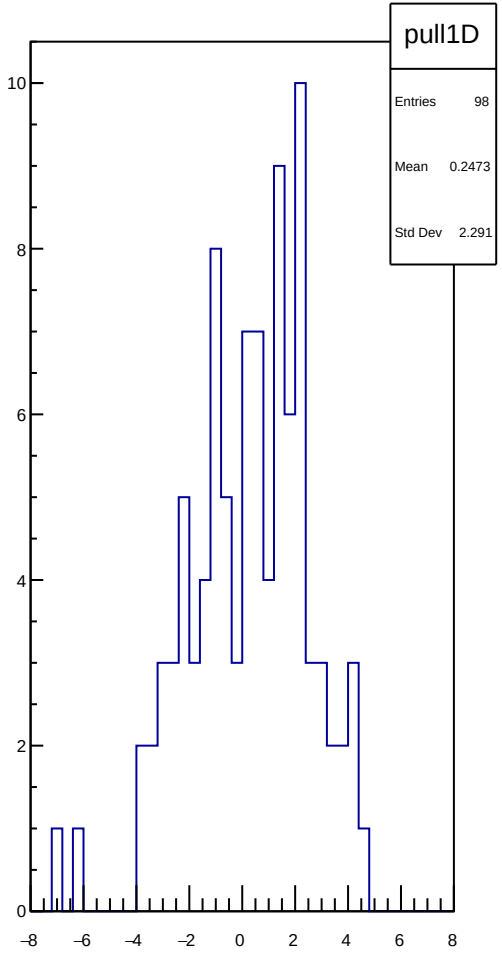

pull1D
Entries 98
Mean −0.04717
Std Dev 1.236

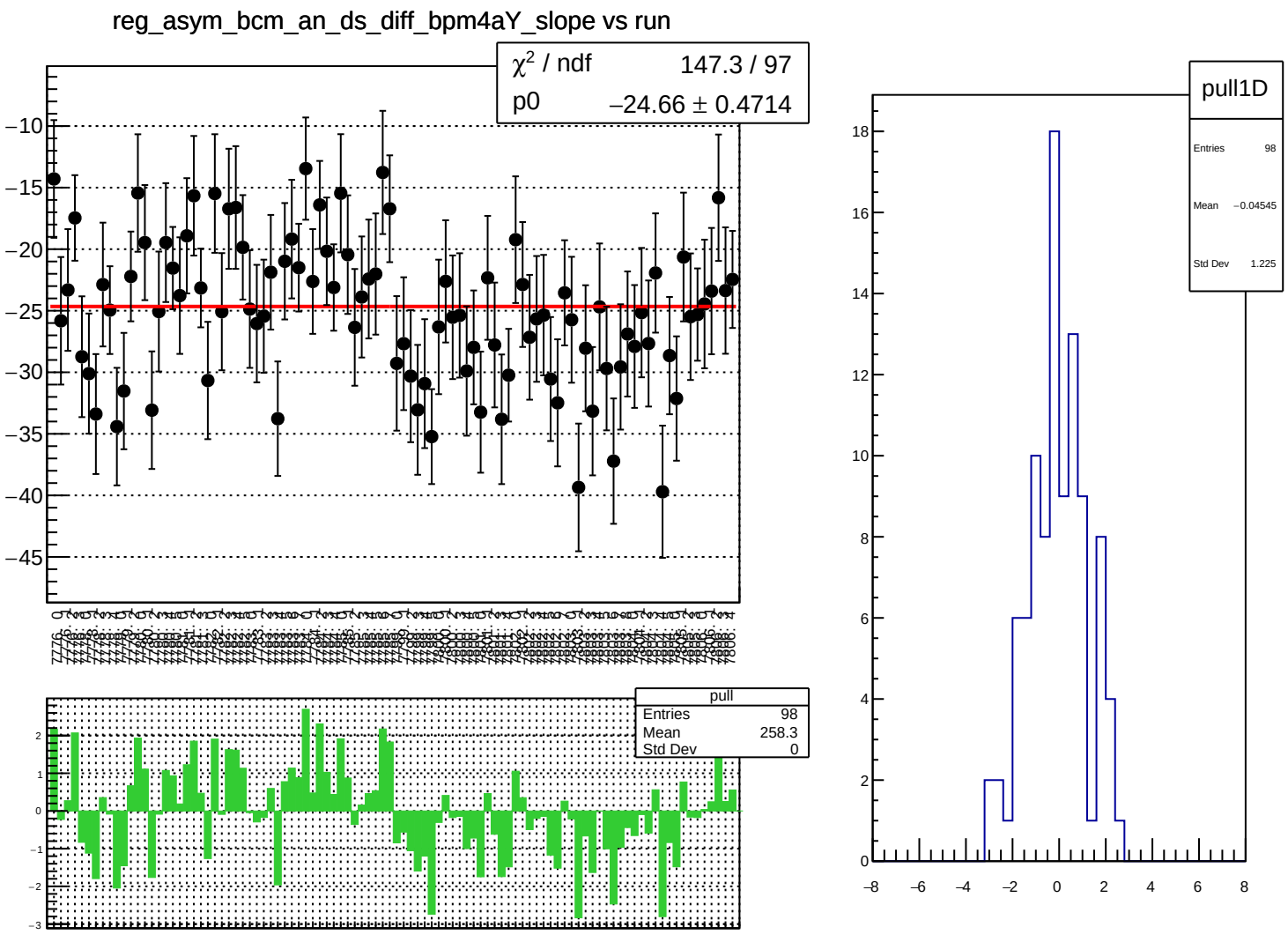

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 584.2 / 97
p0 −68.97 ± 0.4004
pull
Entries 98
Mean 205.1
Std Dev 0
pull1D
Entries 98
Mean −0.2349
Std Dev 2.225

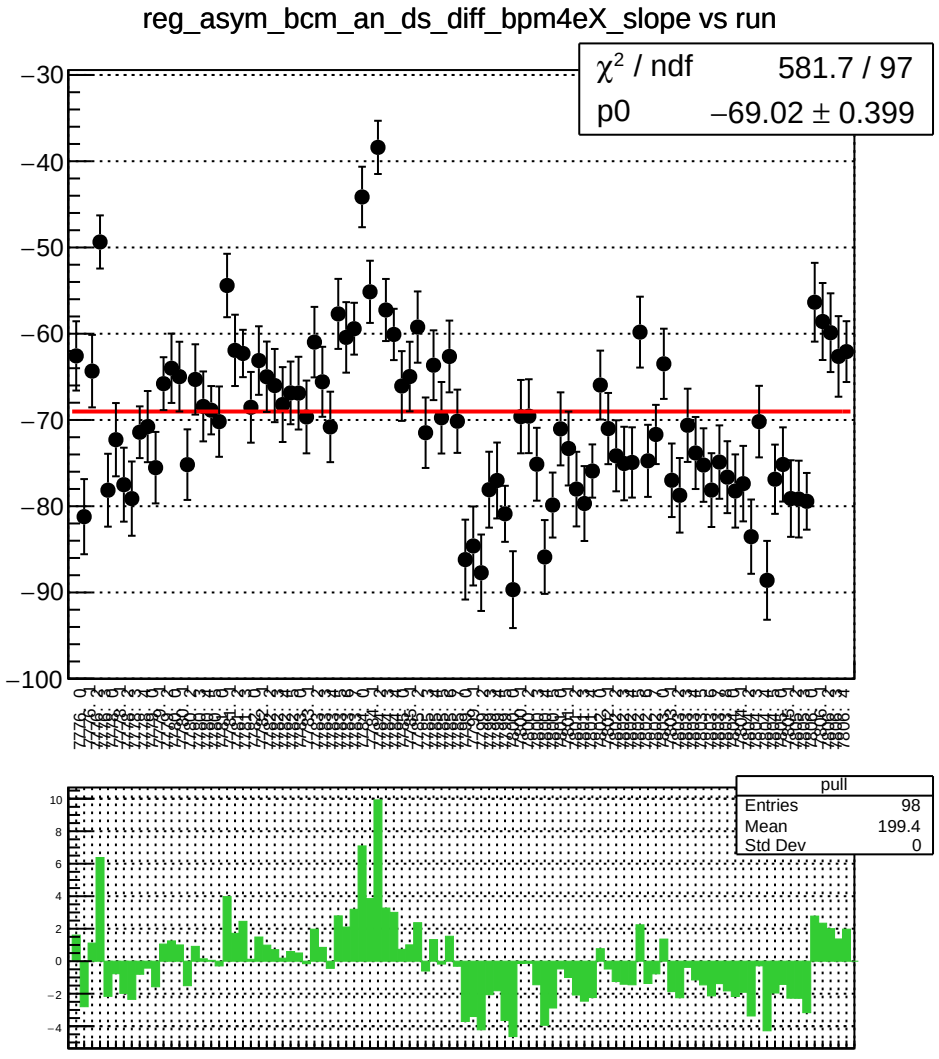

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 140.3 / 97
p0 25.61 ± 0.5351
pull
Entries 98
Mean 279.8
Std Dev 0
pull1D
Entries 98
Mean 0.04659
Std Dev 1.195

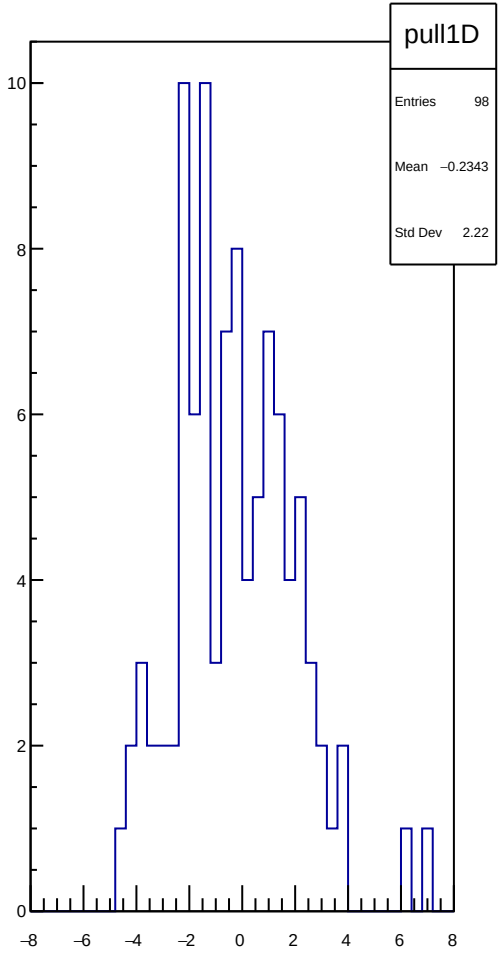

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 369.3 / 97
p0 1.967 ± 0.01692
pull
Entries 98
Mean 172.8
Std Dev 0
pull1D
Entries 98
Mean 0.1271
Std Dev 1.937

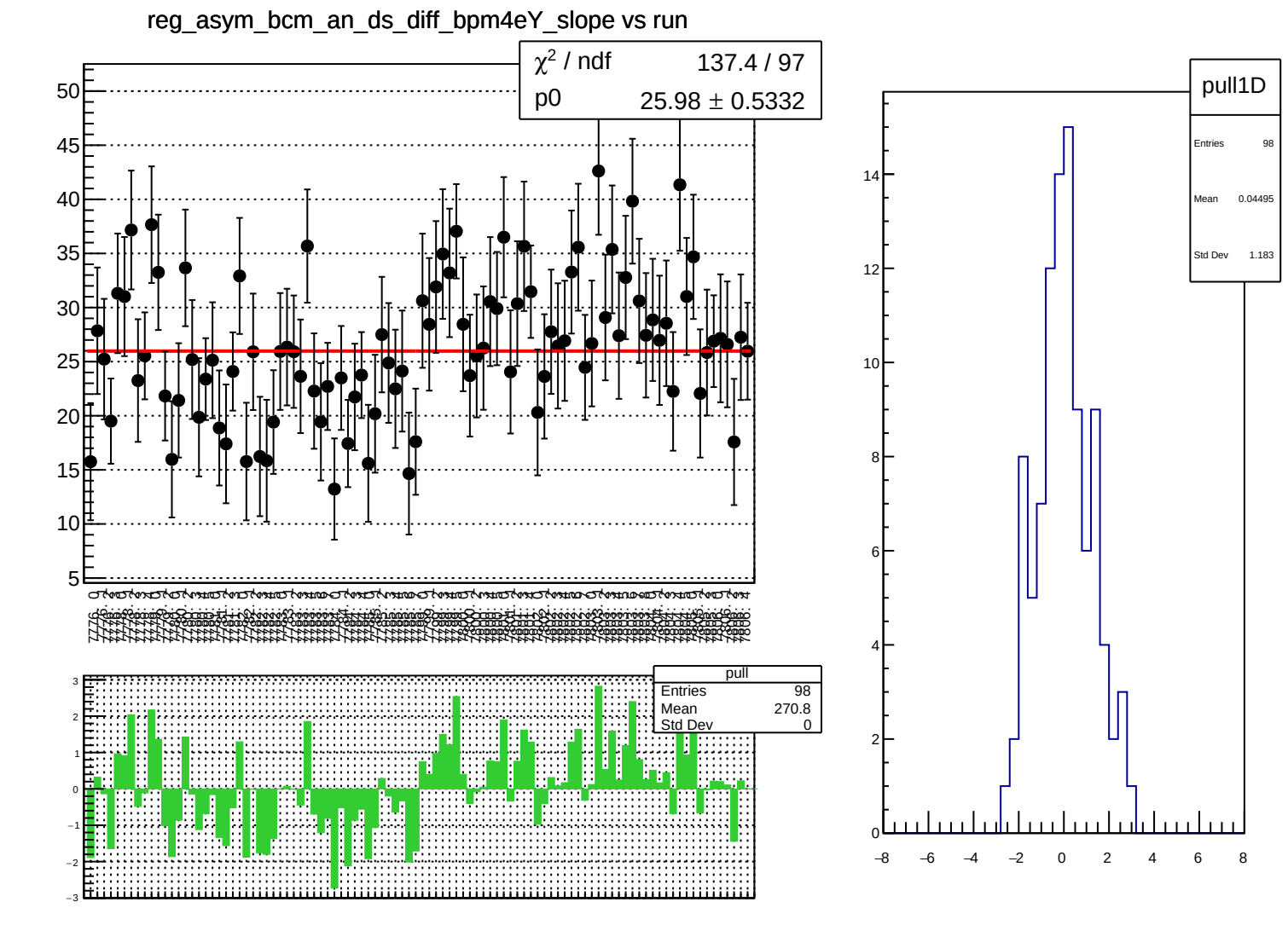

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 617.1 / 97
p0 79.36 ± 0.4587
pull
Entries 98
Mean 182
Std Dev 0

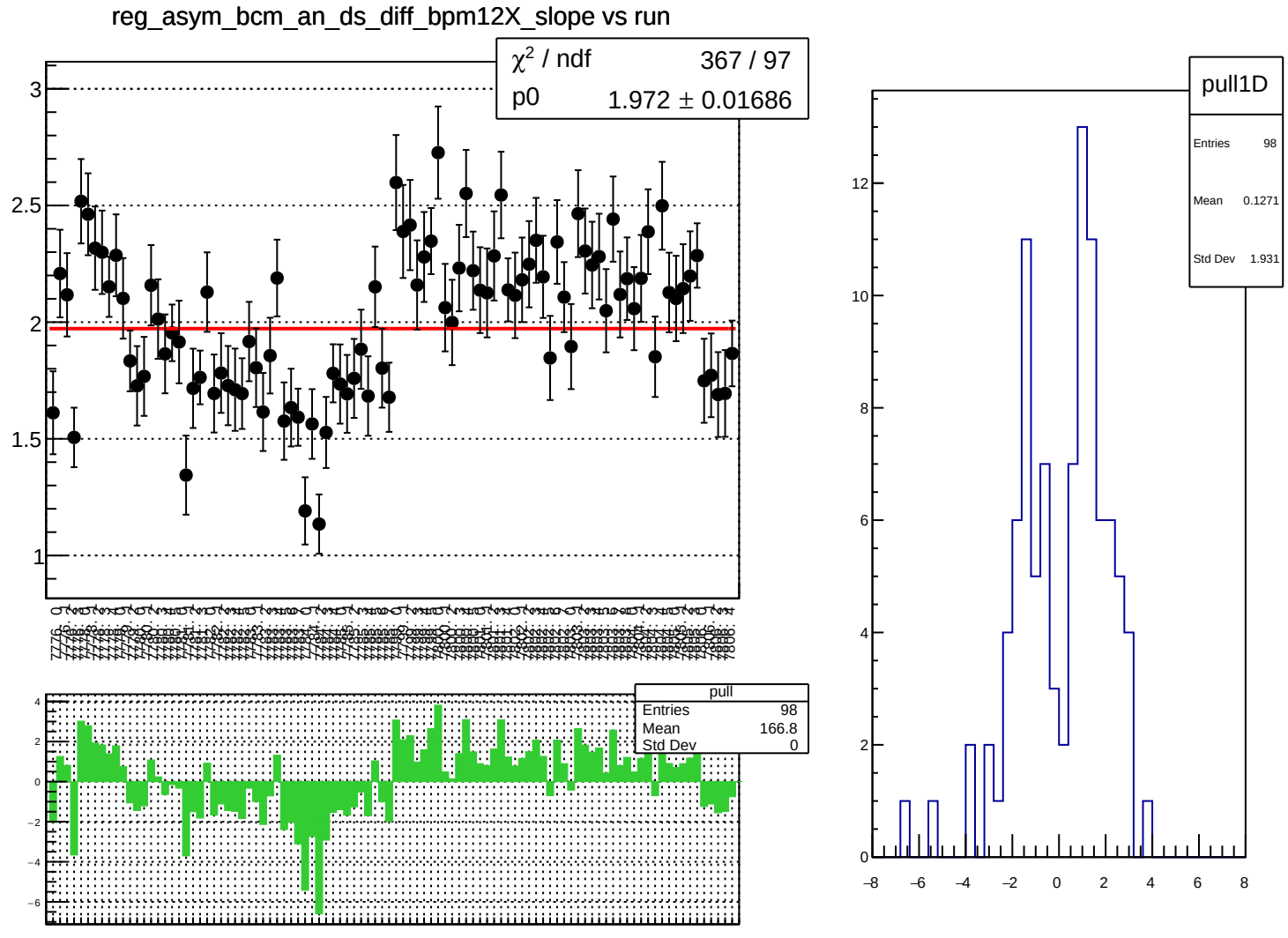

pull1D
Entries 98
Mean 0.2473
Std Dev 2.291

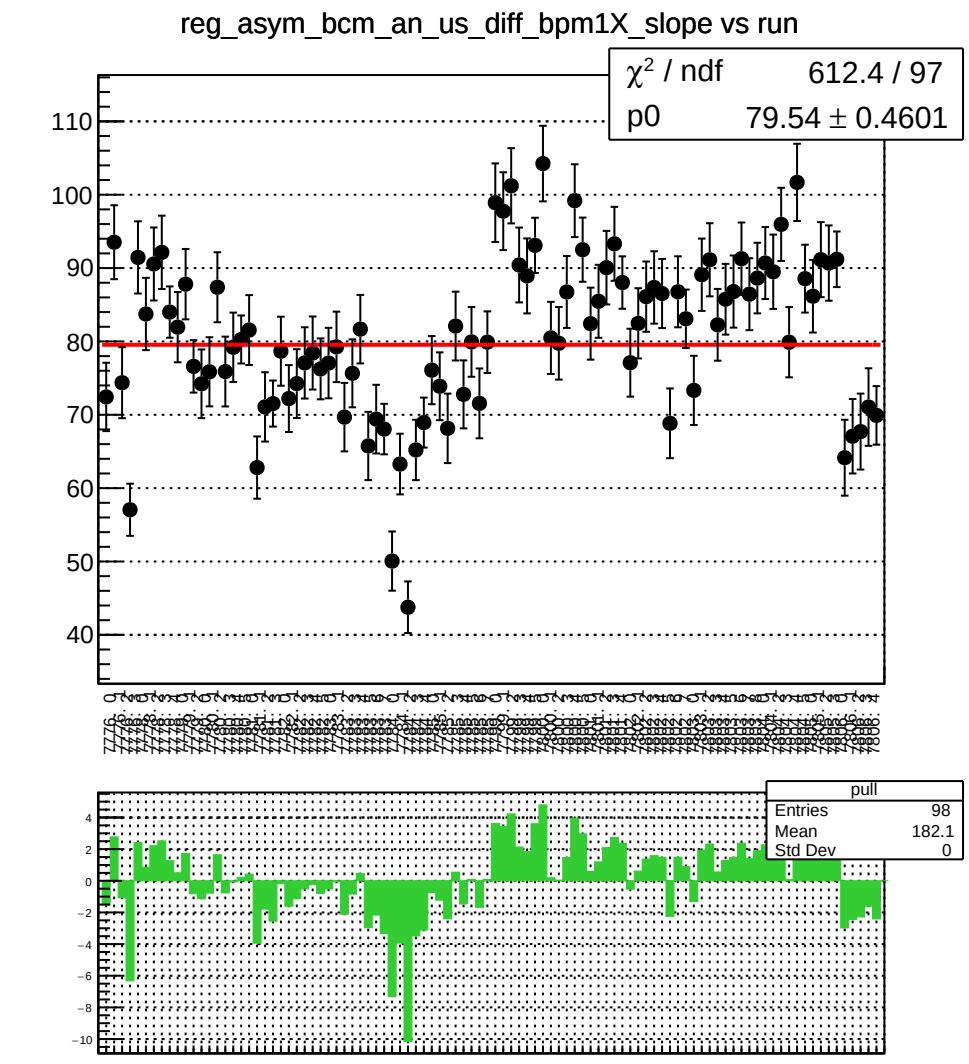

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 147.3 / 97
p0 −24.66 ± 0.4714
pull
Entries 98
Mean 258.3
Std Dev 0
pull1D
Entries 98
Mean −0.04545
Std Dev 1.225

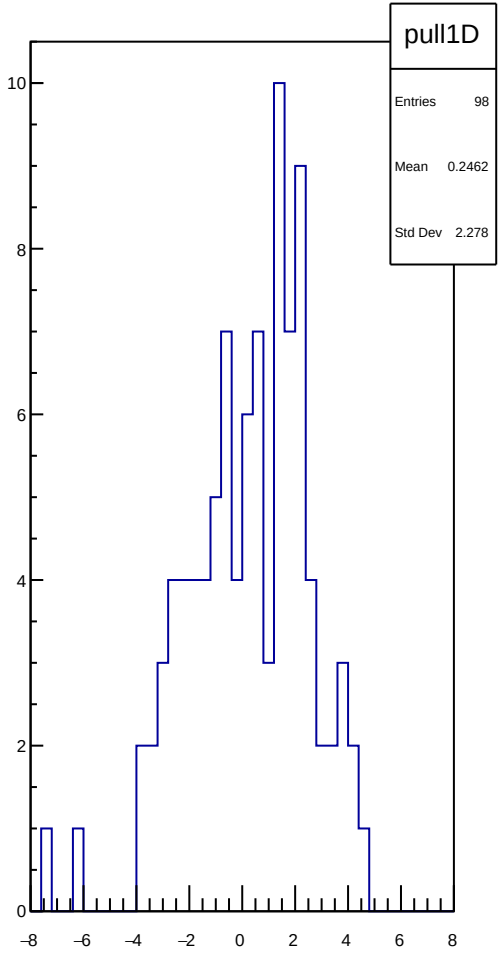

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 581.7 / 97
p0 −69.02 ± 0.399
pull
Entries 98
Mean 199.4
Std Dev 0

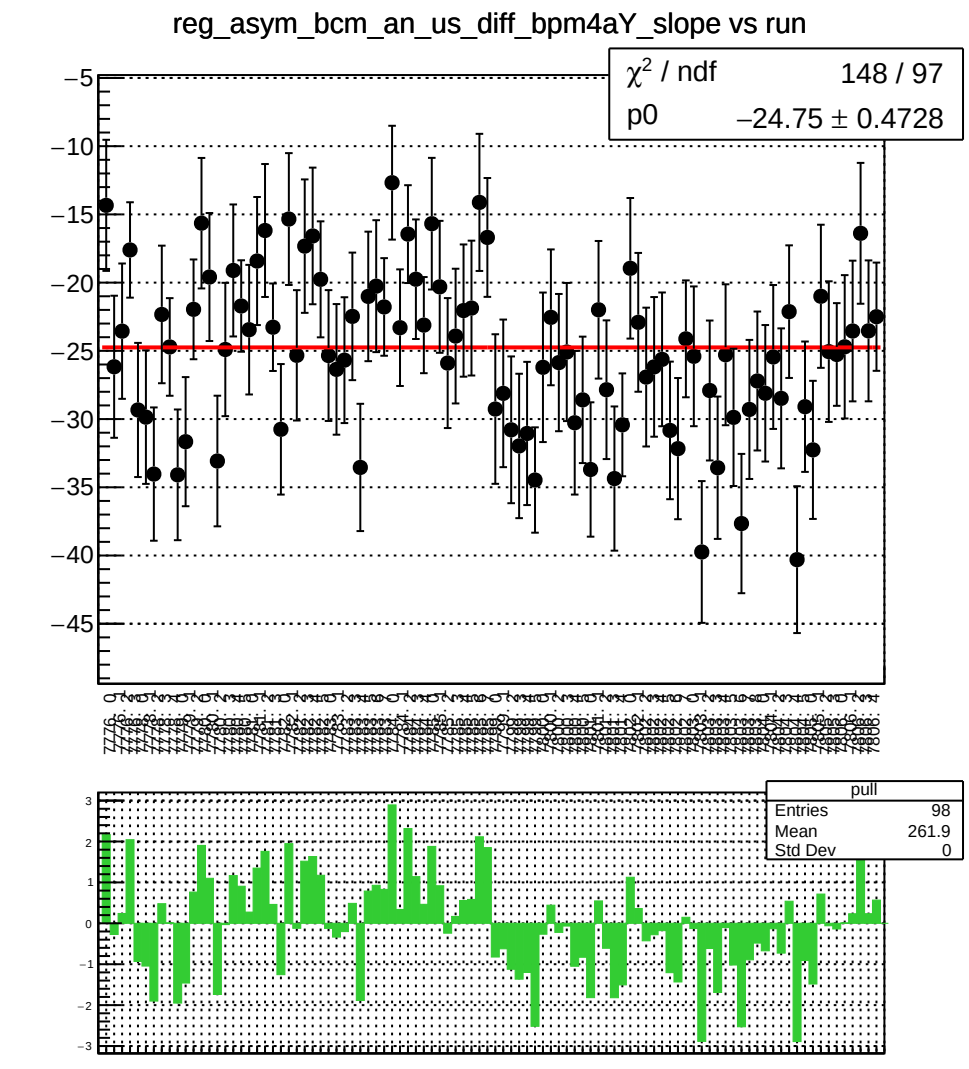

pull1D
Entries 98
Mean −0.2343
Std Dev 2.22

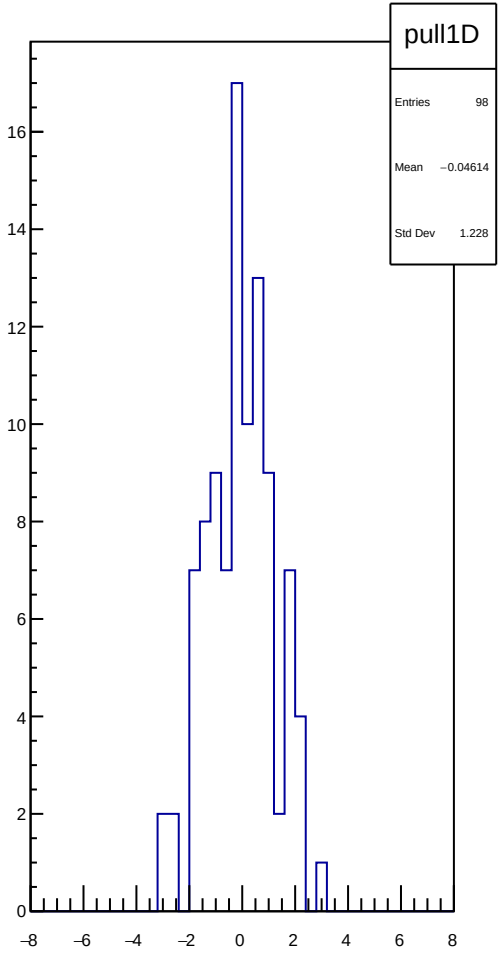

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 137.4 / 97
p0 25.98 ± 0.5332
pull
Entries 98
Mean 270.8
Std Dev 0
pull1D
Entries 98
Mean 0.04495
Std Dev 1.183

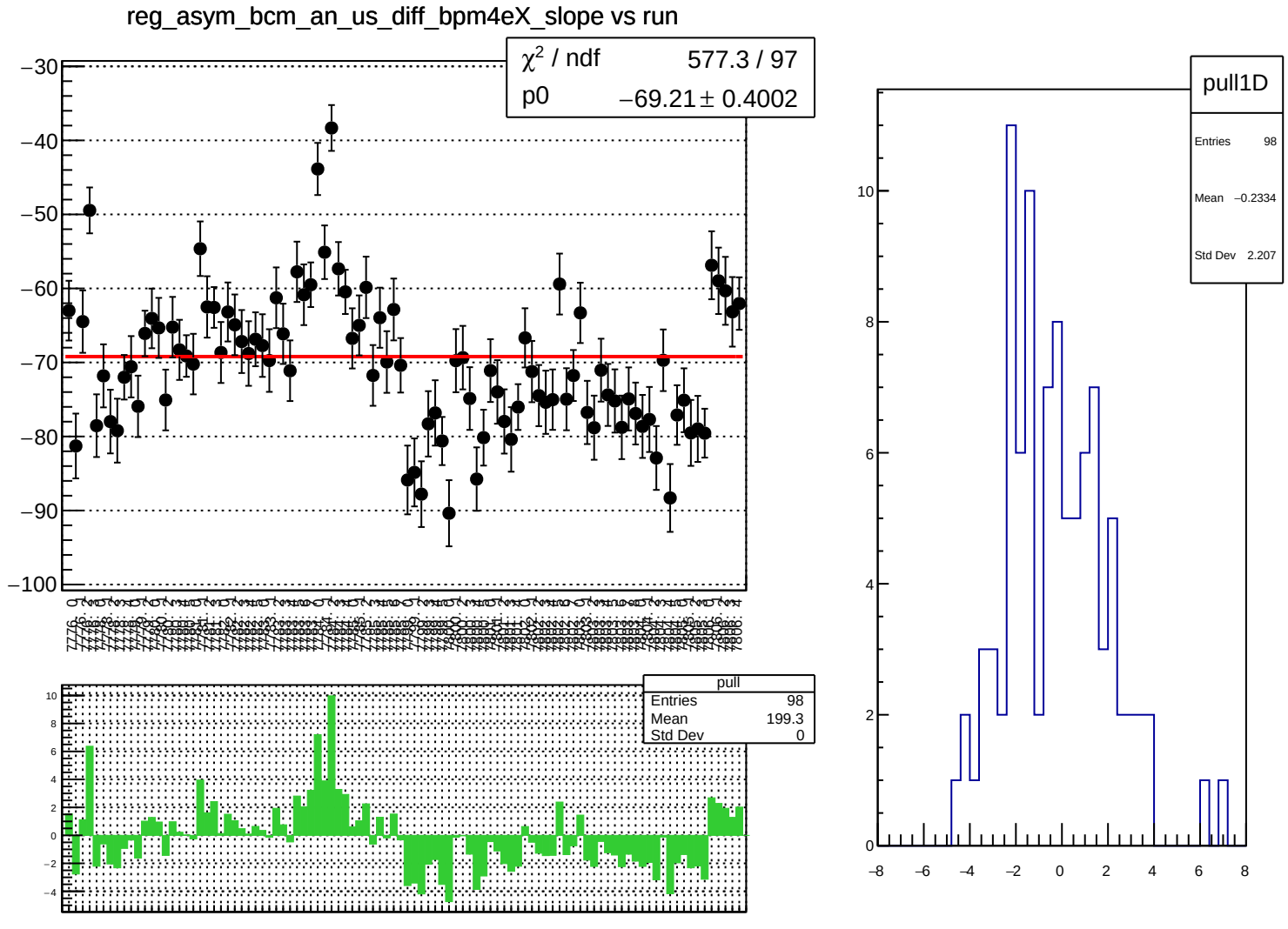

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 367 / 97
p0 1.972 ± 0.01686
pull
Entries 98
Mean 166.8
Std Dev 0
pull1D
Entries 98
Mean 0.1271
Std Dev 1.931

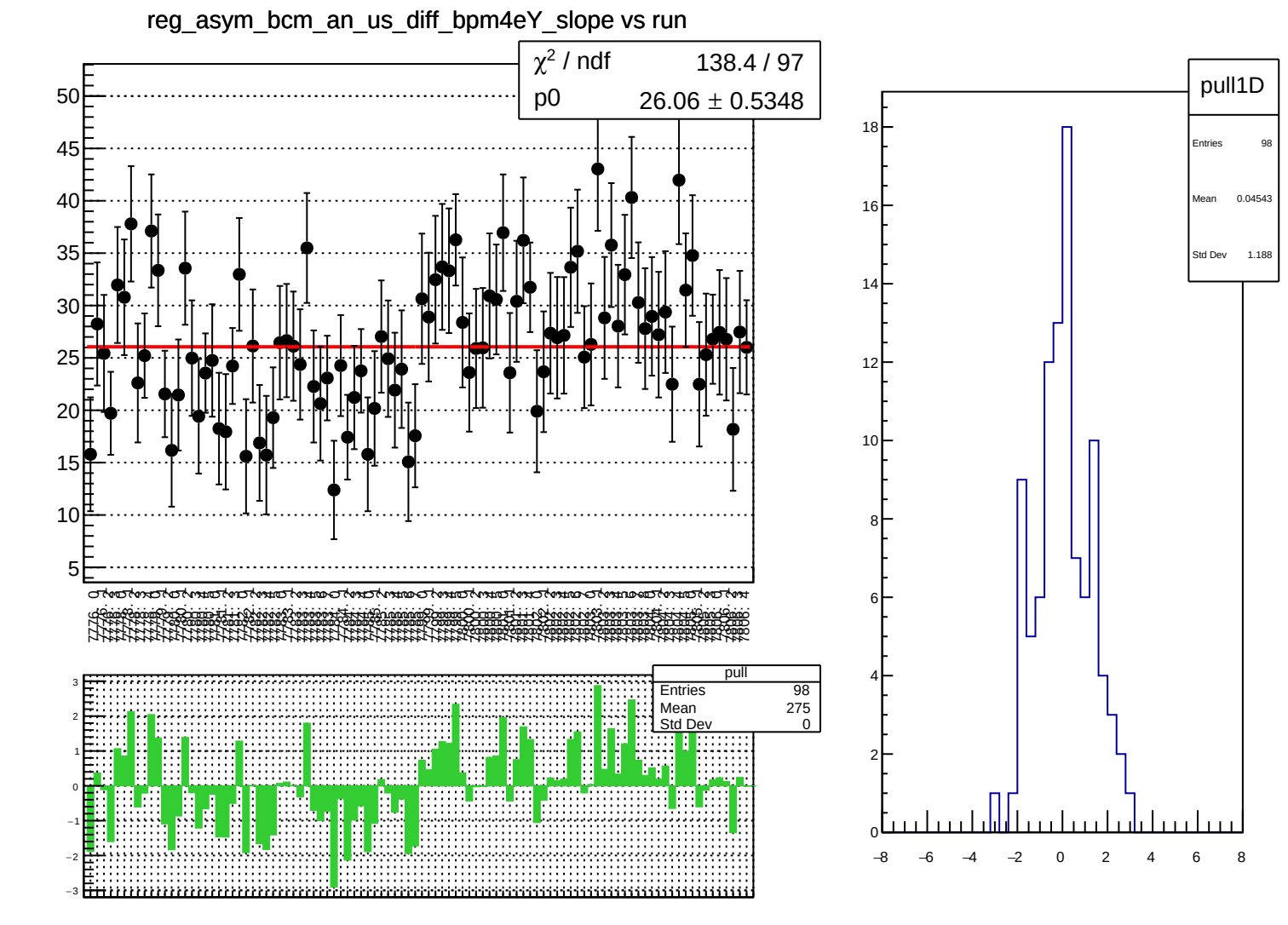

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 612.4 / 97
p0 79.54 ± 0.4601
pull
Entries 98
Mean 182.1
Std Dev 0

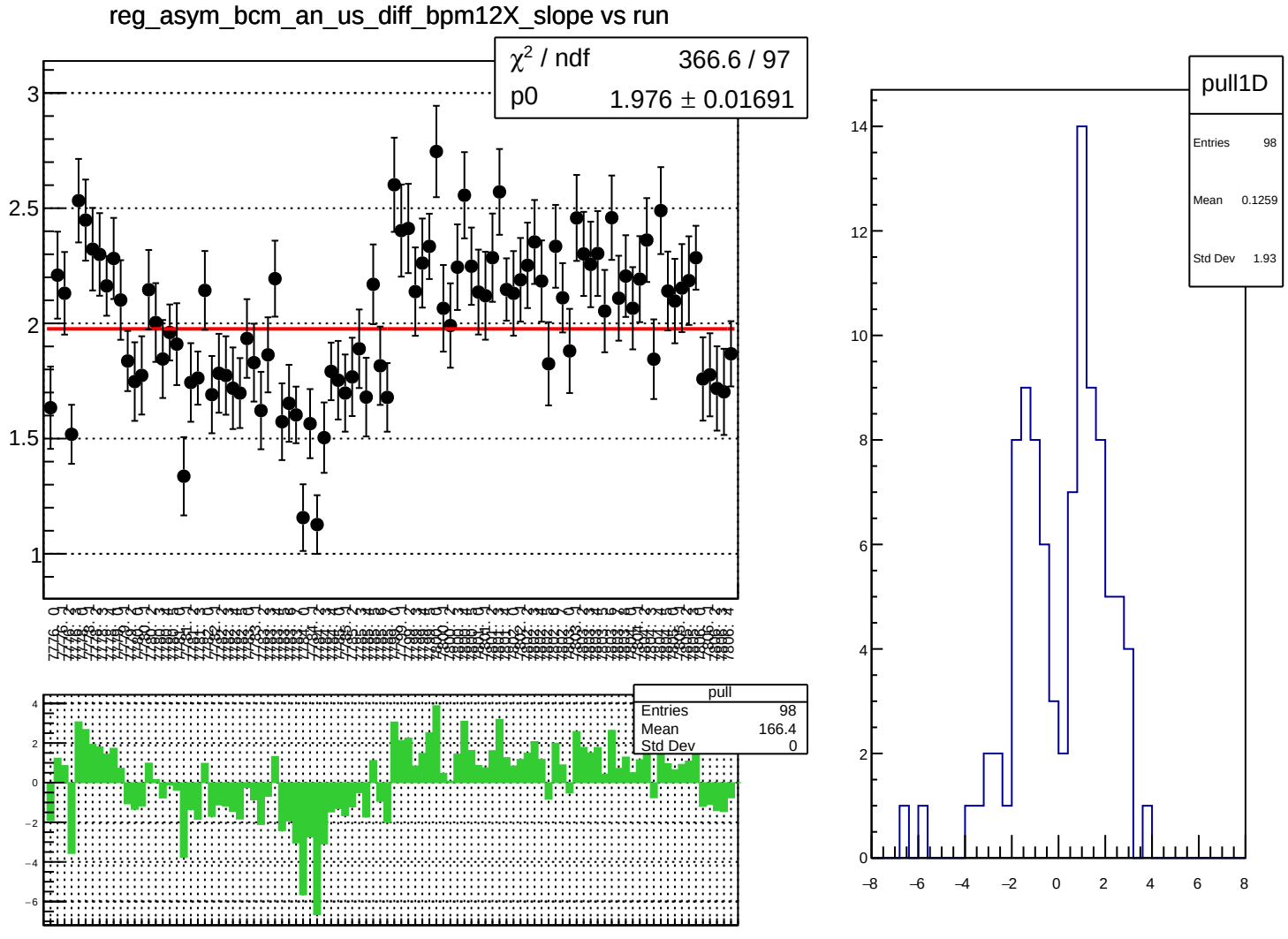

pull1D
Entries 98
Mean 0.2462
Std Dev 2.278

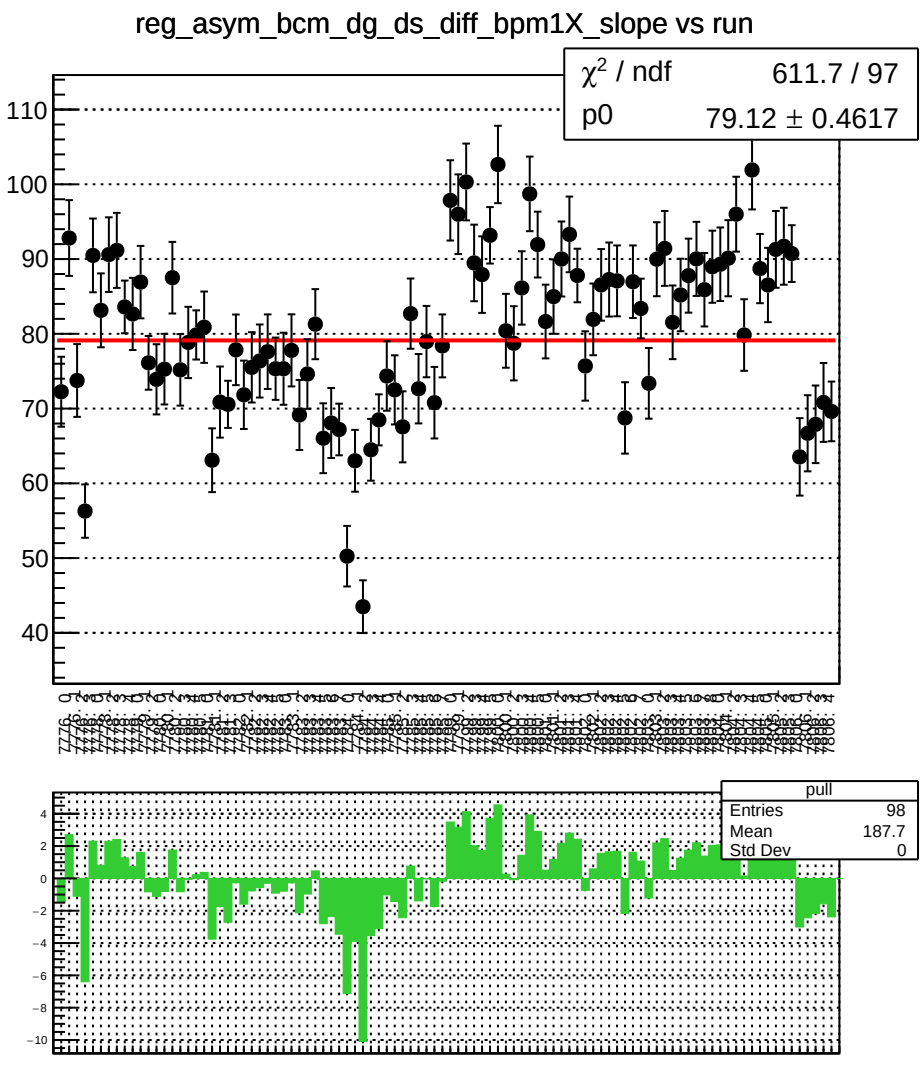

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 148 / 97
p0 −24.75 ± 0.4728
pull
Entries 98
Mean 261.9
Std Dev 0

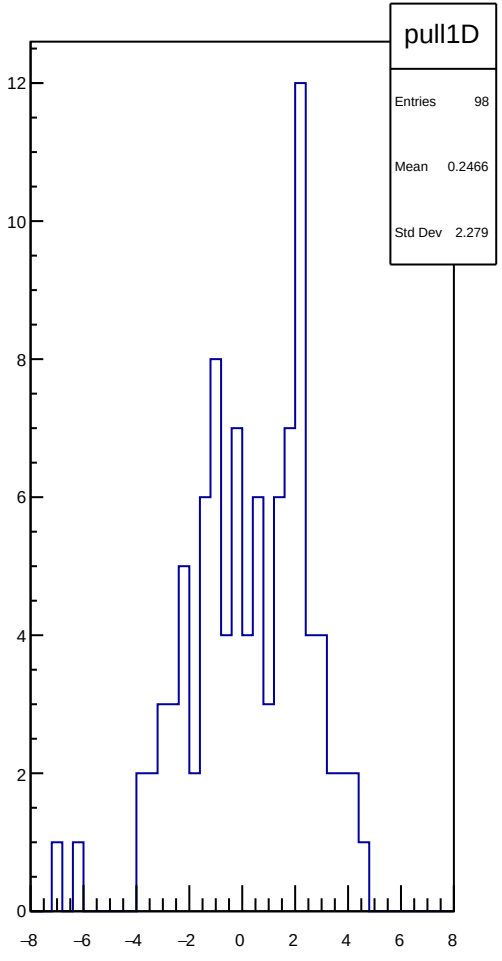

pull1D
Entries 98
Mean −0.04614
Std Dev 1.228

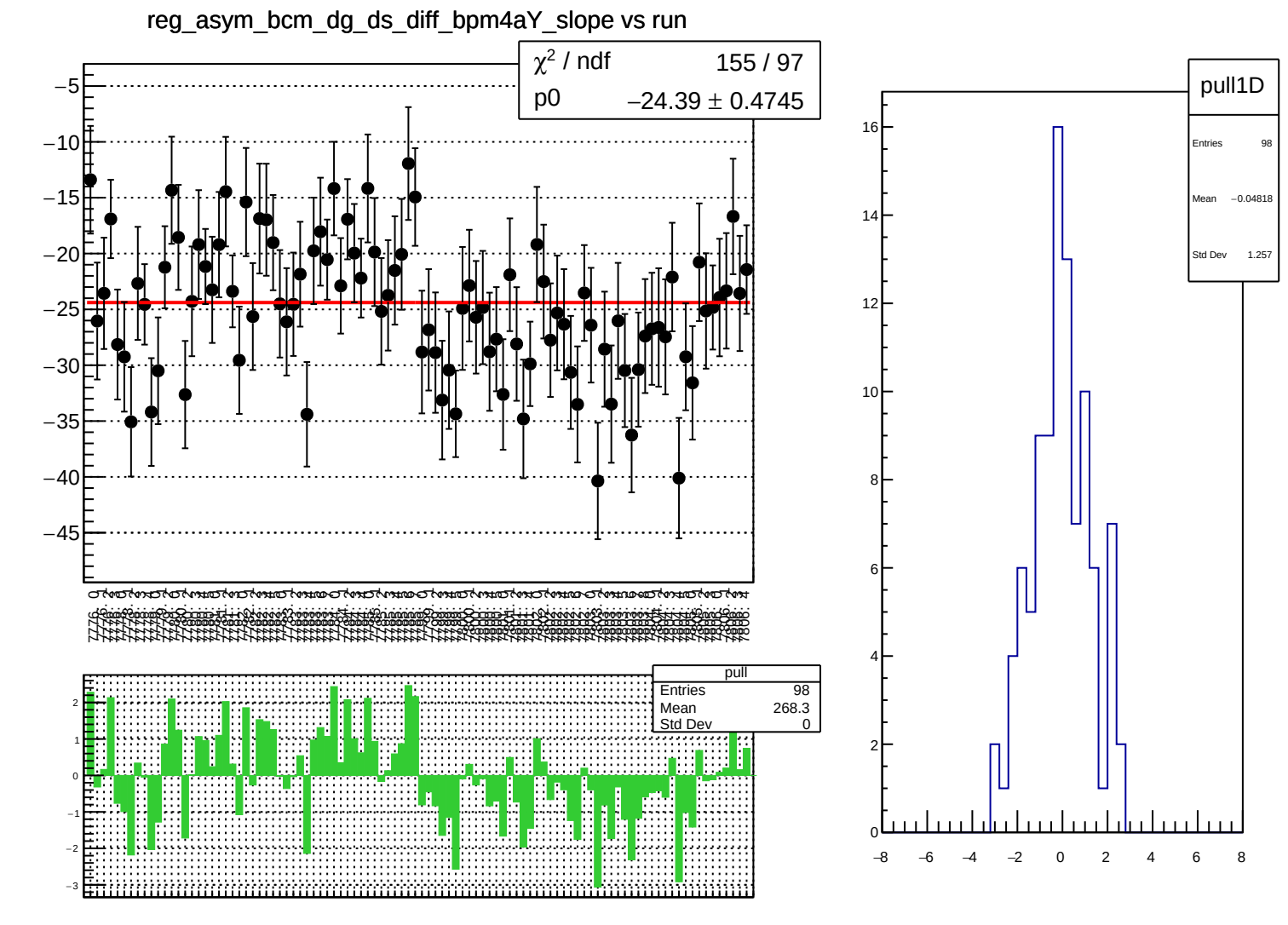

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 577.3 / 97
p0 −69.21 ± 0.4002
pull
Entries 98
Mean 199.3
Std Dev 0
pull1D
Entries 98
Mean −0.2334
Std Dev 2.207

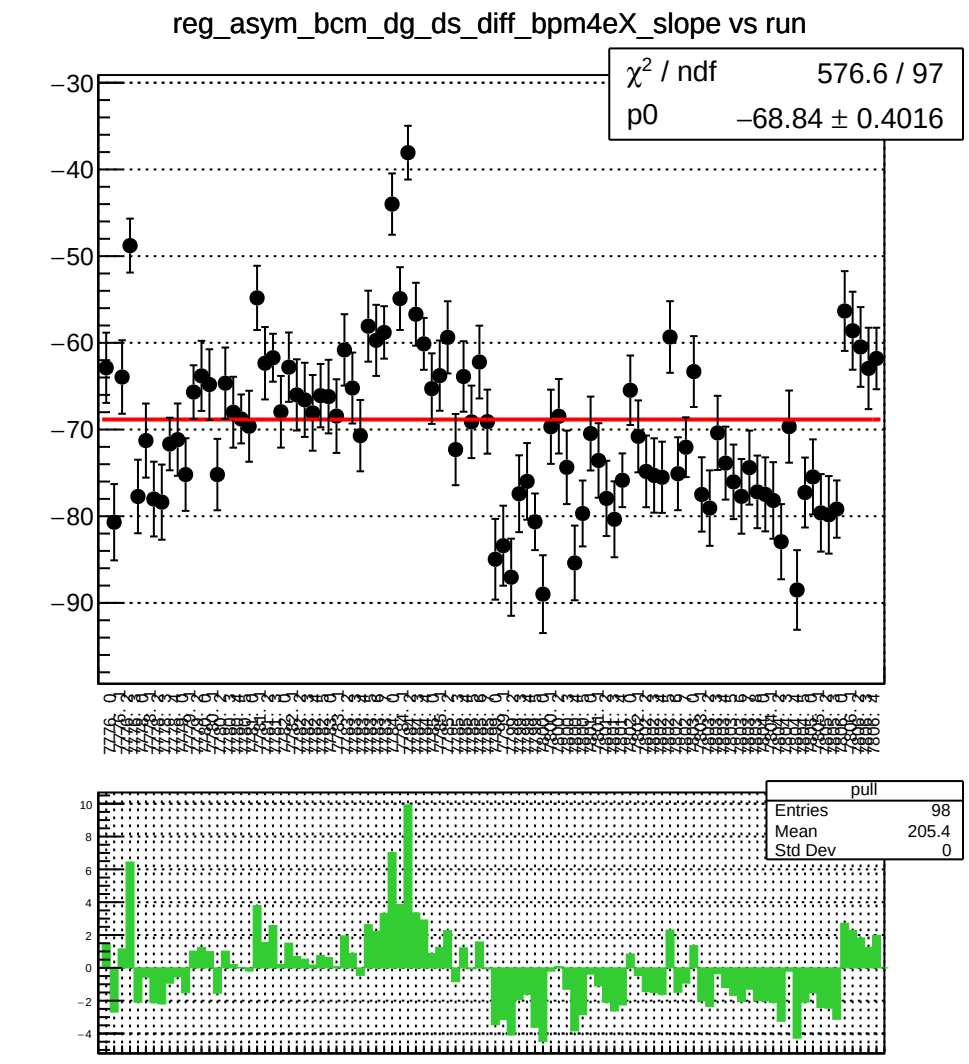

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 138.4 / 97
p0 26.06 ± 0.5348
pull
Entries 98
Mean 275
Std Dev 0
pull1D
Entries 98
Mean 0.04543
Std Dev 1.188

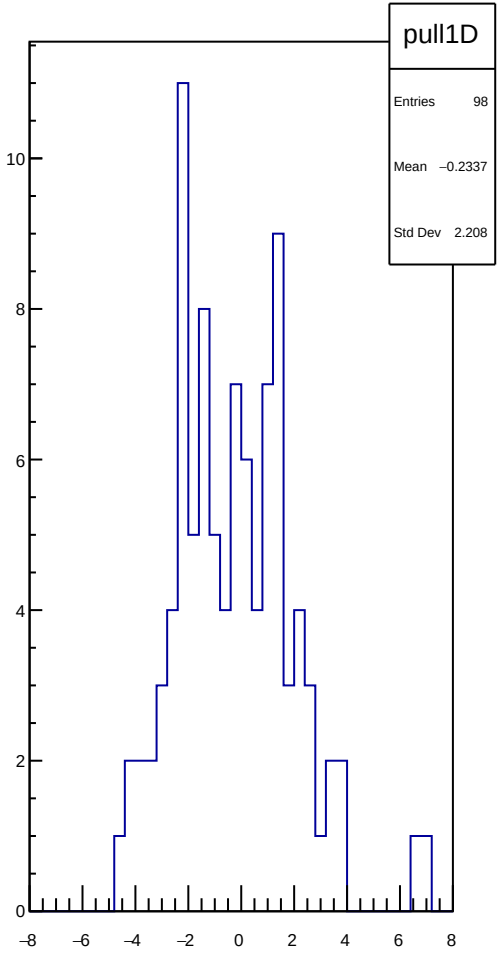

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 366.6 / 97
p0 1.976 ± 0.01691
pull
Entries 98
Mean 166.4
Std Dev 0
pull1D
Entries 98
Mean 0.1259
Std Dev 1.93

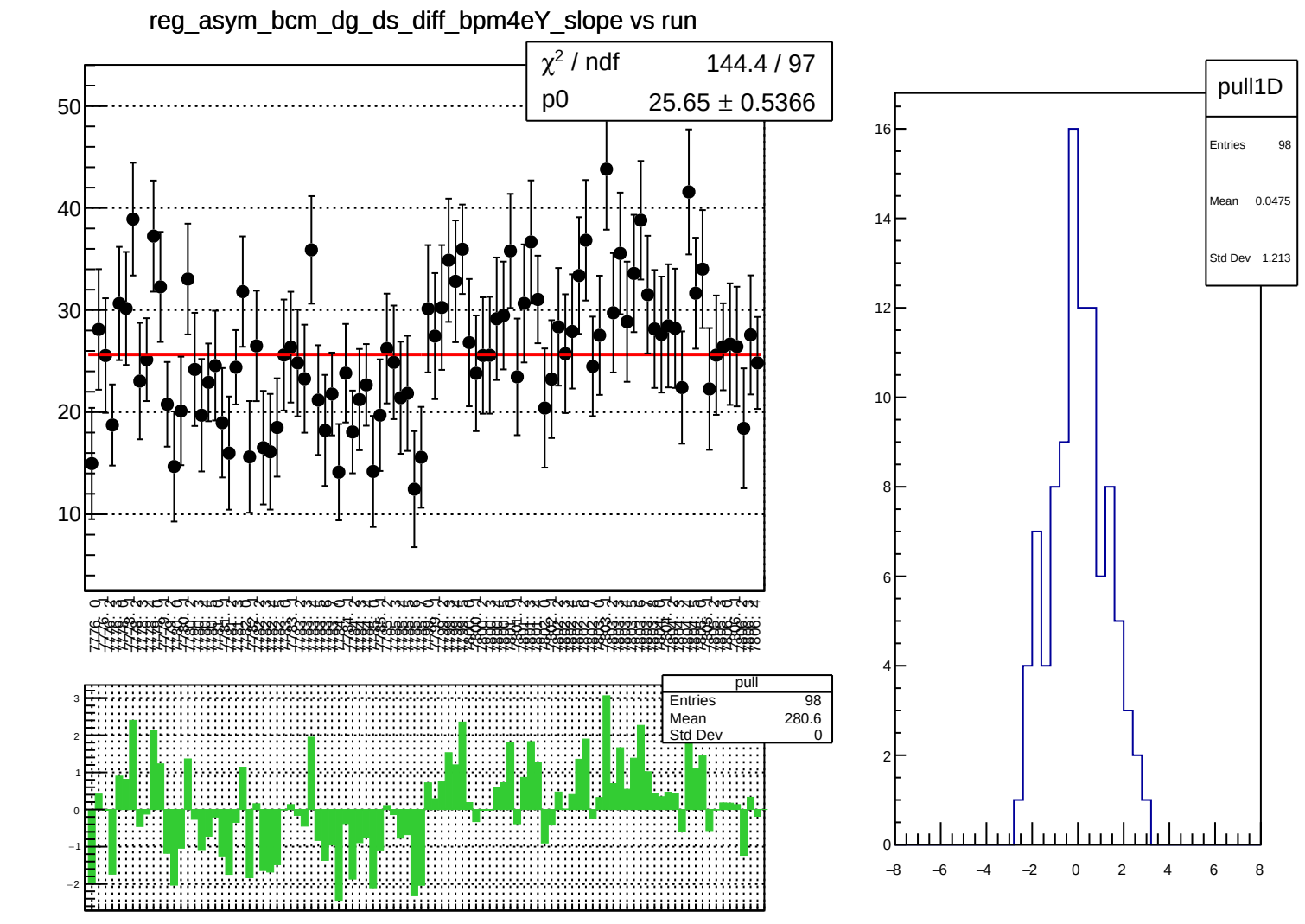

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 611.7 / 97
p0 79.12 ± 0.4617
pull
Entries 98
Mean 187.7
Std Dev 0

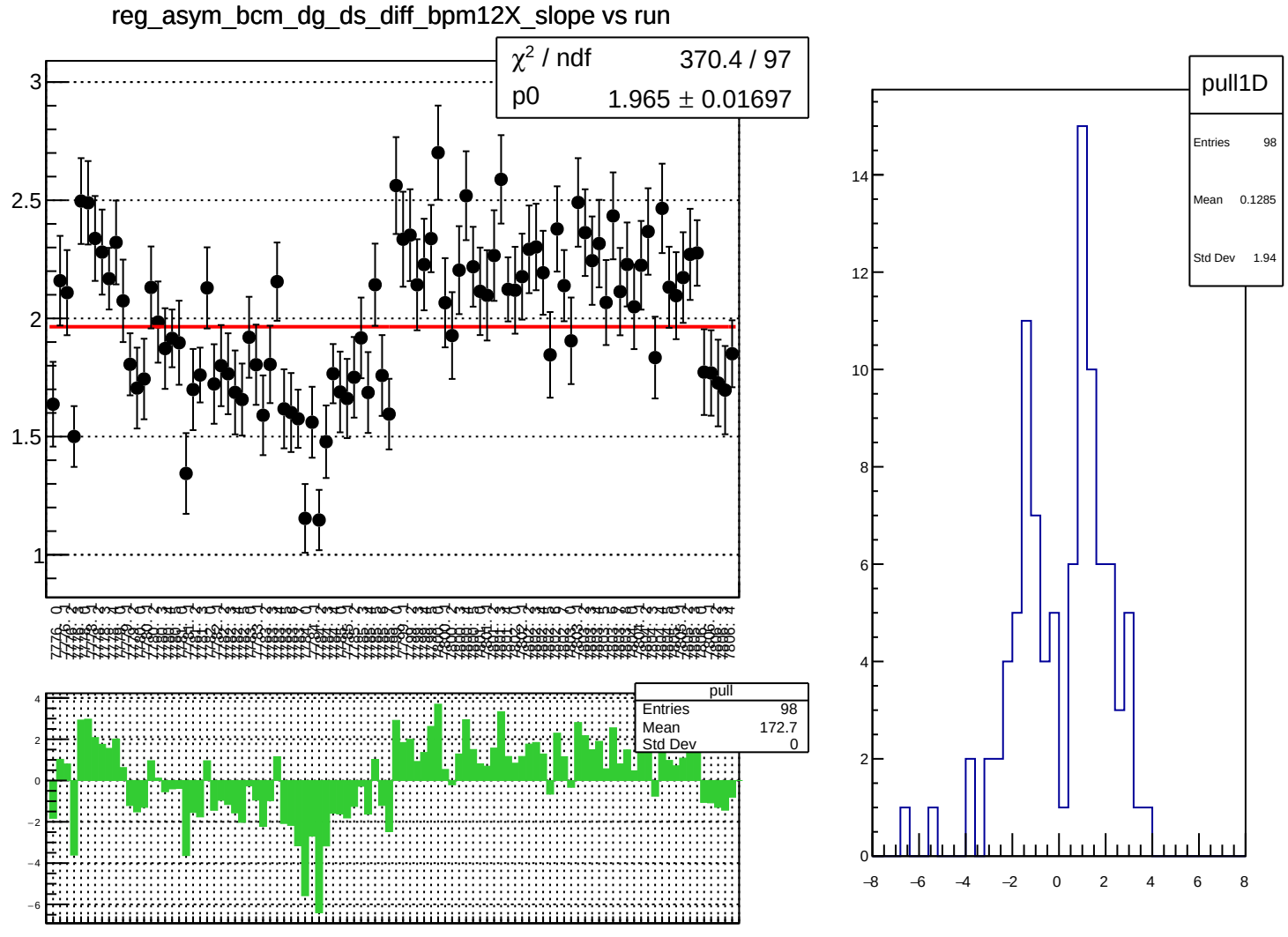

pull1D
Entries 98
Mean 0.2466
Std Dev 2.279

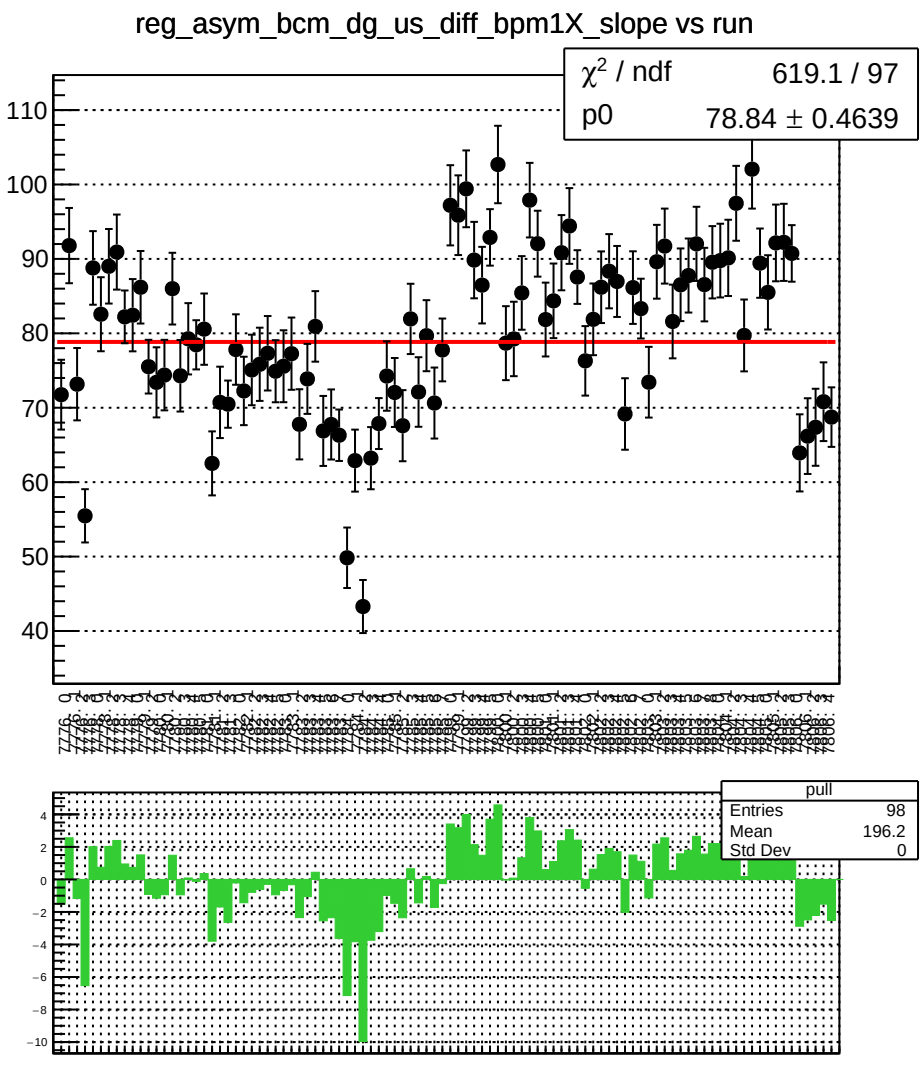

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 155 / 97
p0 −24.39 ± 0.4745
pull
Entries 98
Mean 268.3
Std Dev 0
pull1D
Entries 98
Mean −0.04818
Std Dev 1.257

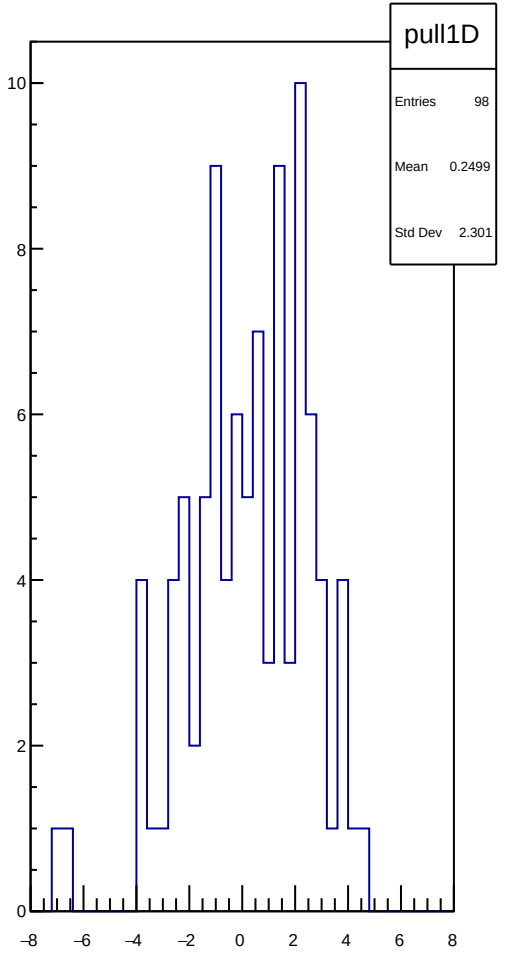

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 576.6 / 97
p0 −68.84 ± 0.4016
pull
Entries 98
Mean 205.4
Std Dev 0

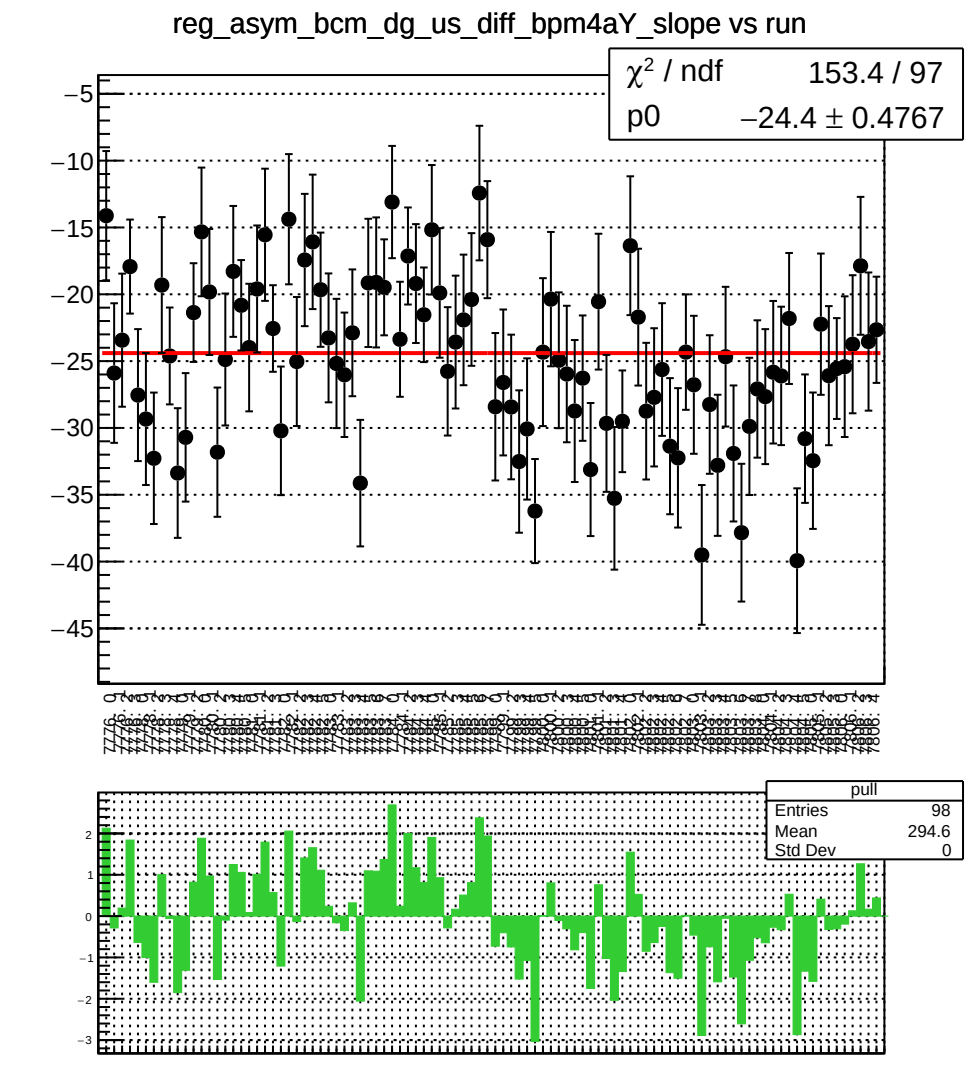

pull1D
Entries 98
Mean −0.2337
Std Dev 2.208

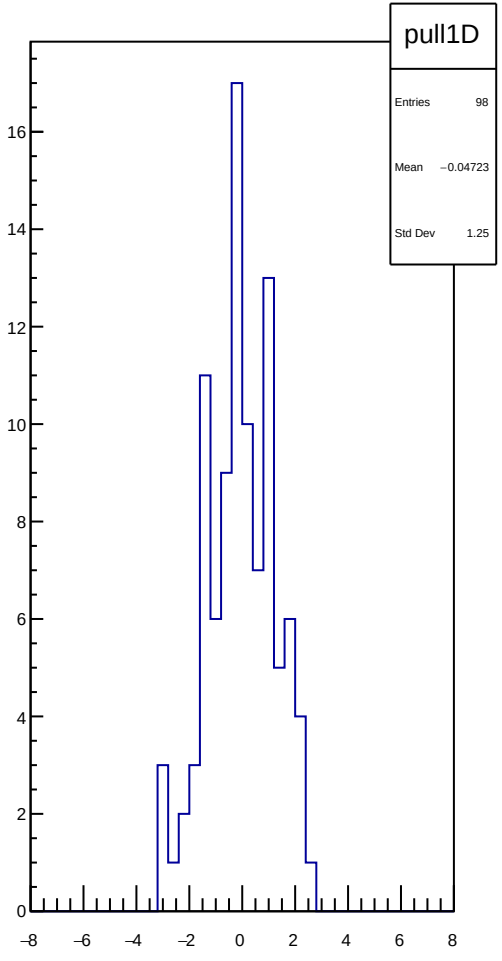

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 144.4 / 97
p0 25.65 ± 0.5366
pull
Entries 98
Mean 280.6
Std Dev 0
pull1D
Entries 98
Mean 0.0475
Std Dev 1.213

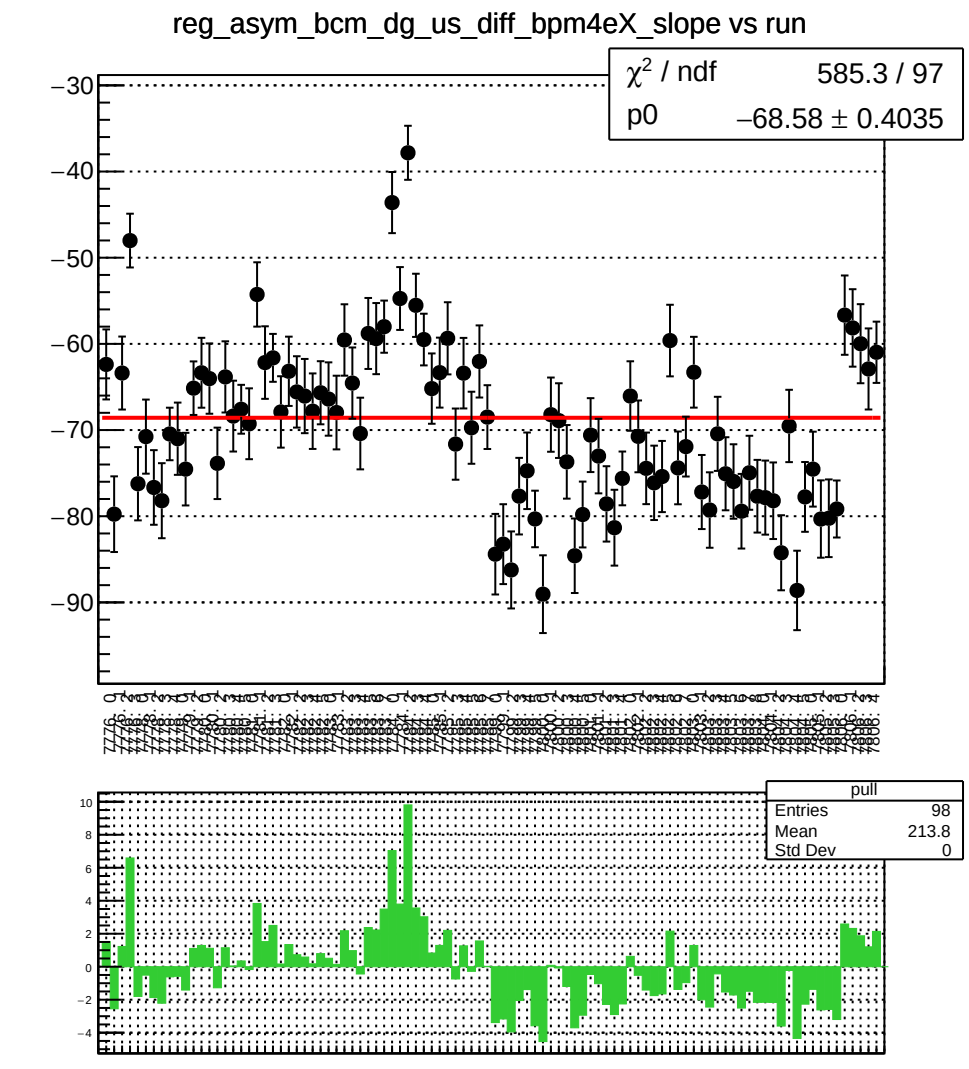

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 370.4 / 97
p0 1.965 ± 0.01697
pull
Entries 98
Mean 172.7
Std Dev 0
pull1D
Entries 98
Mean 0.1285
Std Dev 1.94

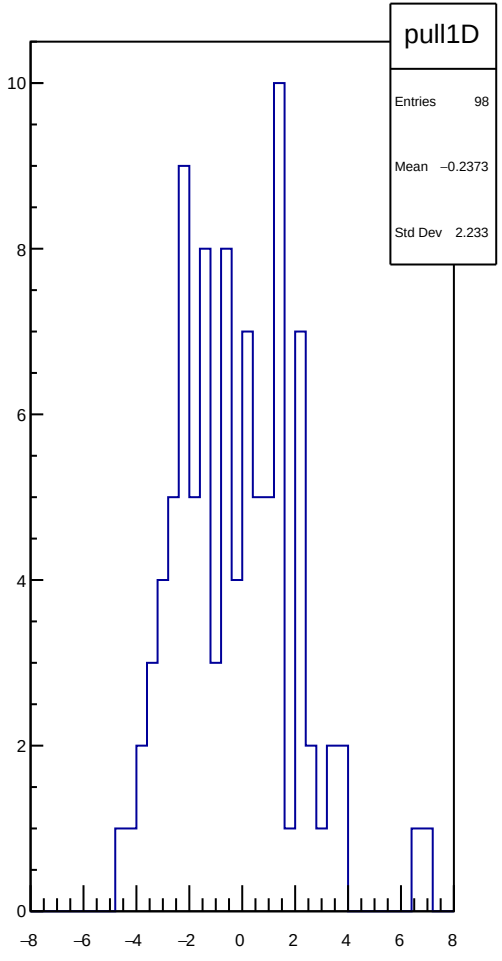

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 619.1 / 97
p0 78.84 ± 0.4639
pull
Entries 98
Mean 196.2
Std Dev 0

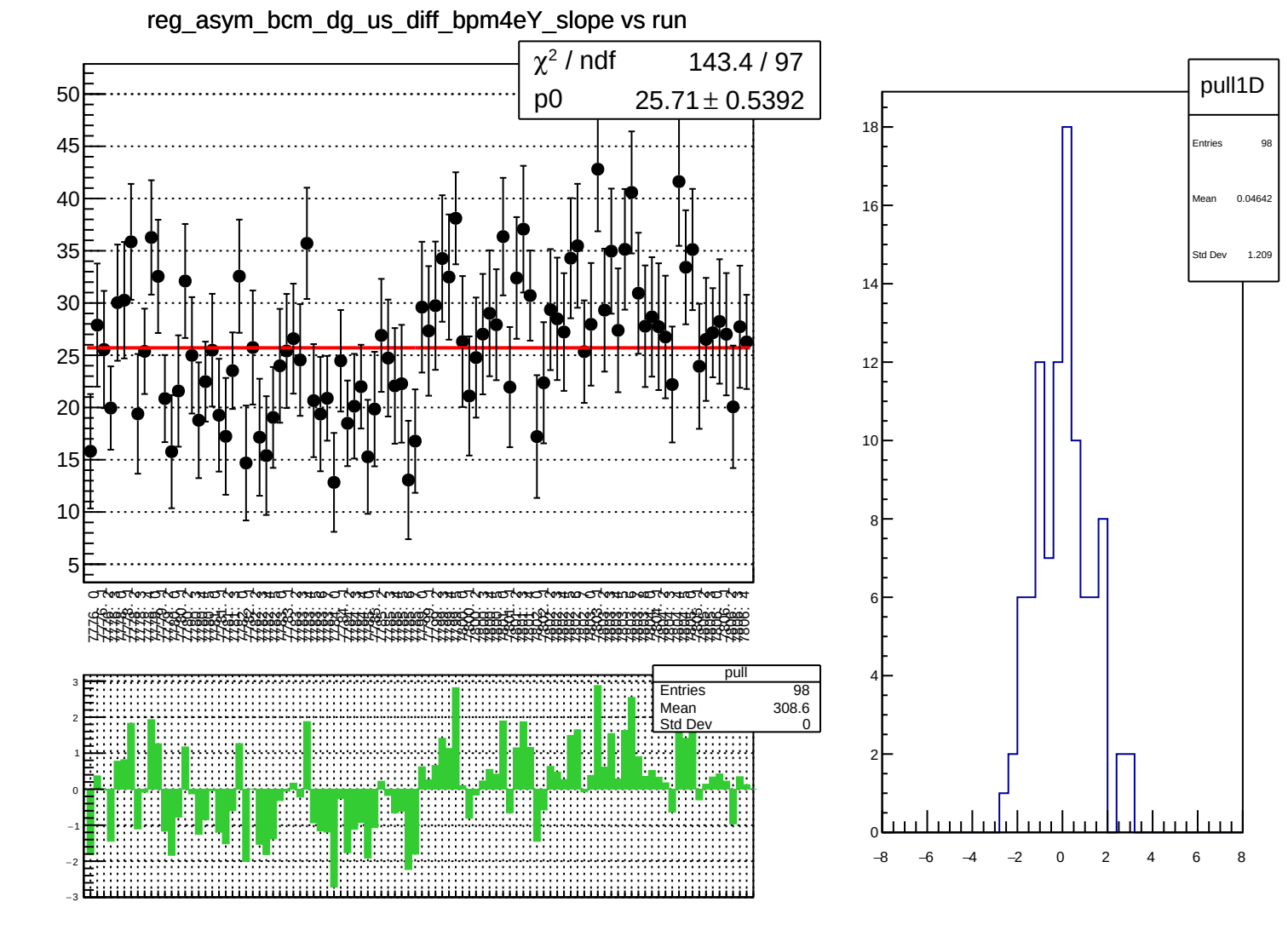

pull1D
Entries 98
Mean 0.2499
Std Dev 2.301

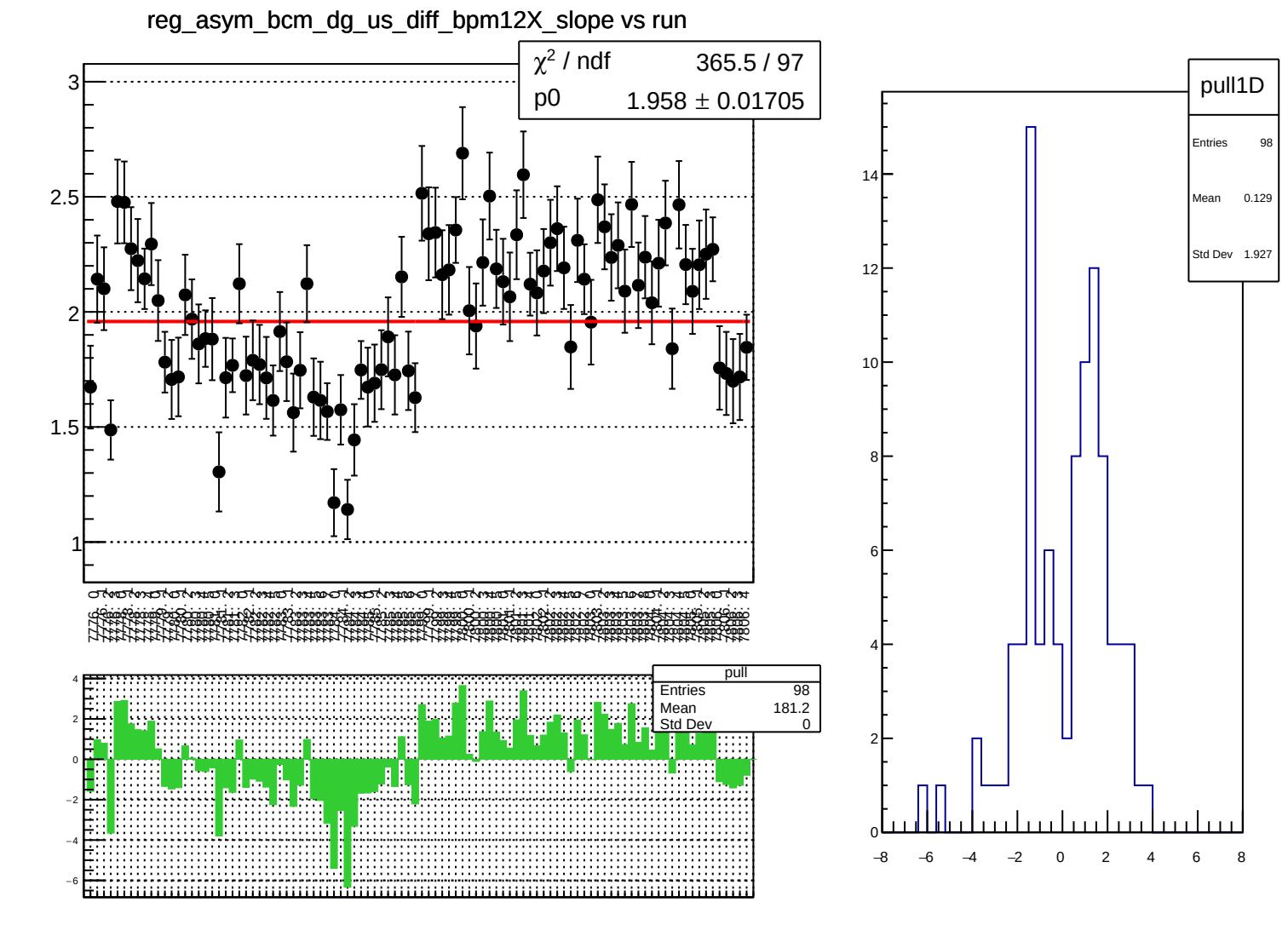

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 153.4 / 97
p0 −24.4 ± 0.4767
pull
Entries 98
Mean 294.6
Std Dev 0

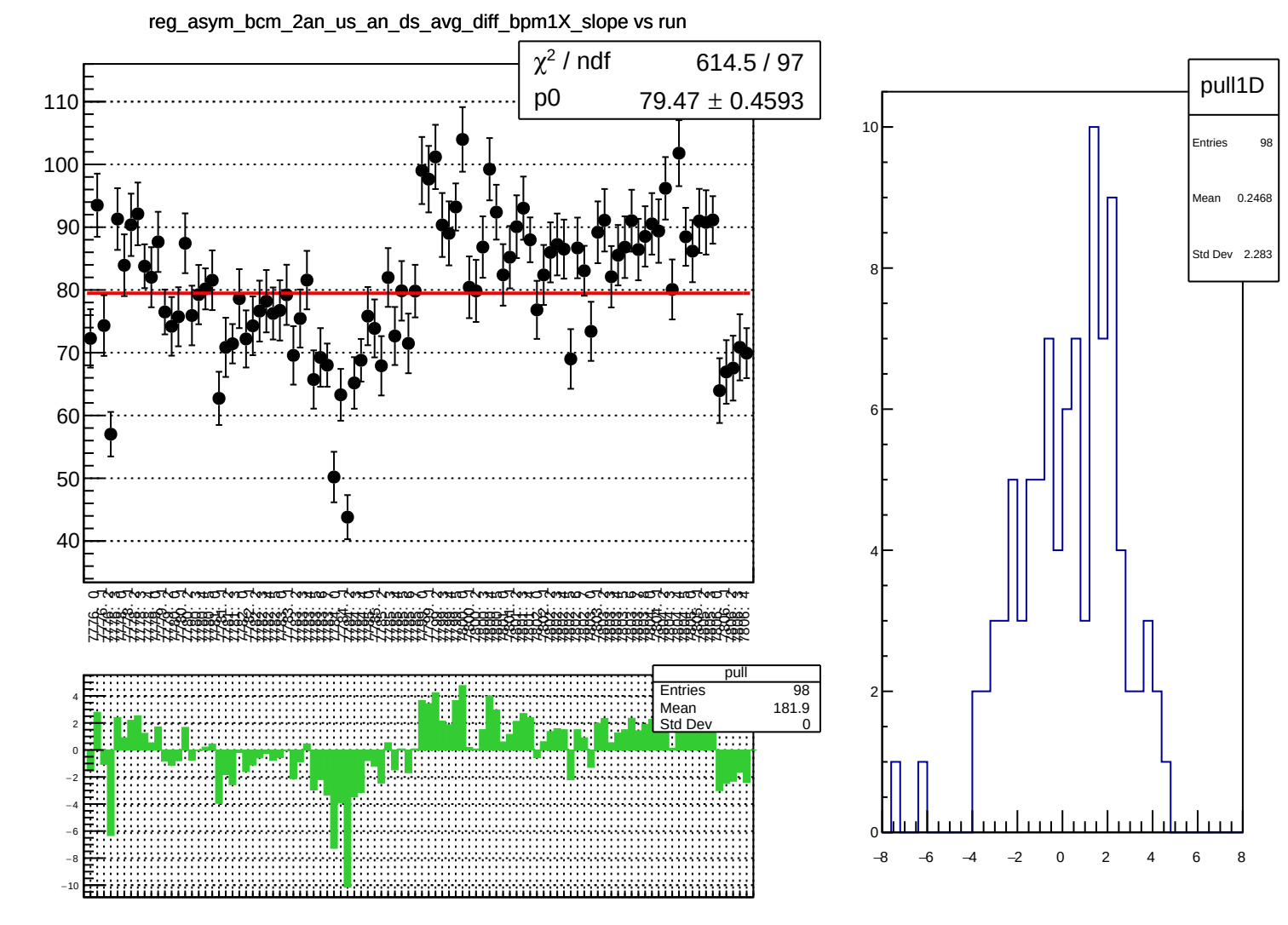

pull1D
Entries 98
Mean −0.04723
Std Dev 1.25

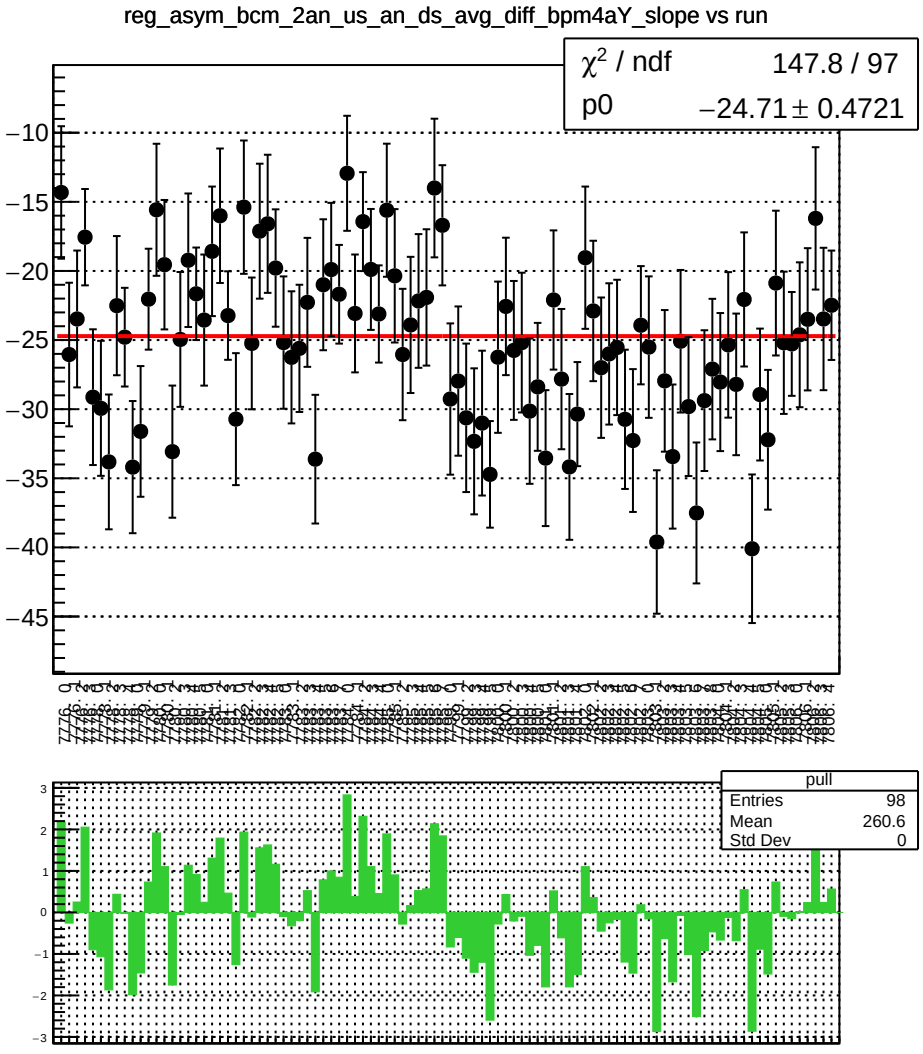

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 585.3 / 97
p0 −68.58 ± 0.4035
pull
Entries 98
Mean 213.8
Std Dev 0

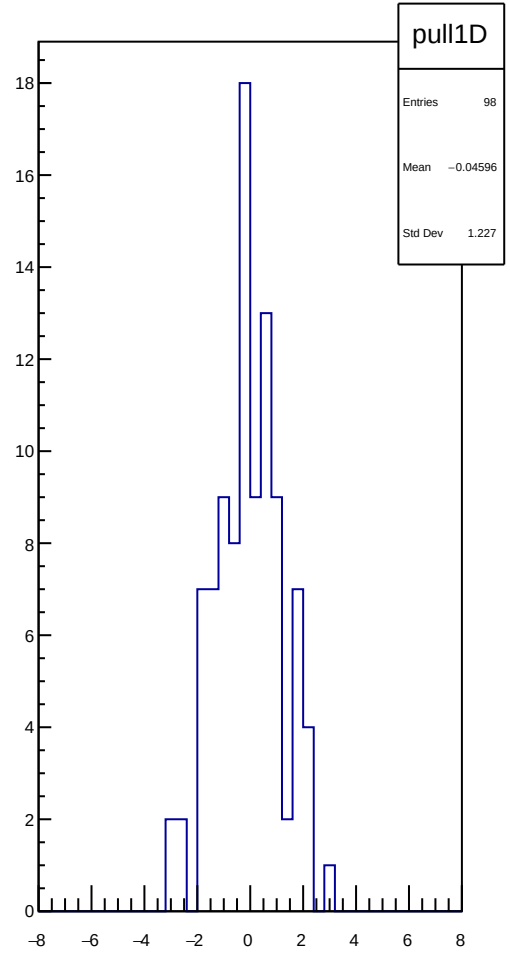

pull1D
Entries 98
Mean −0.2373
Std Dev 2.233

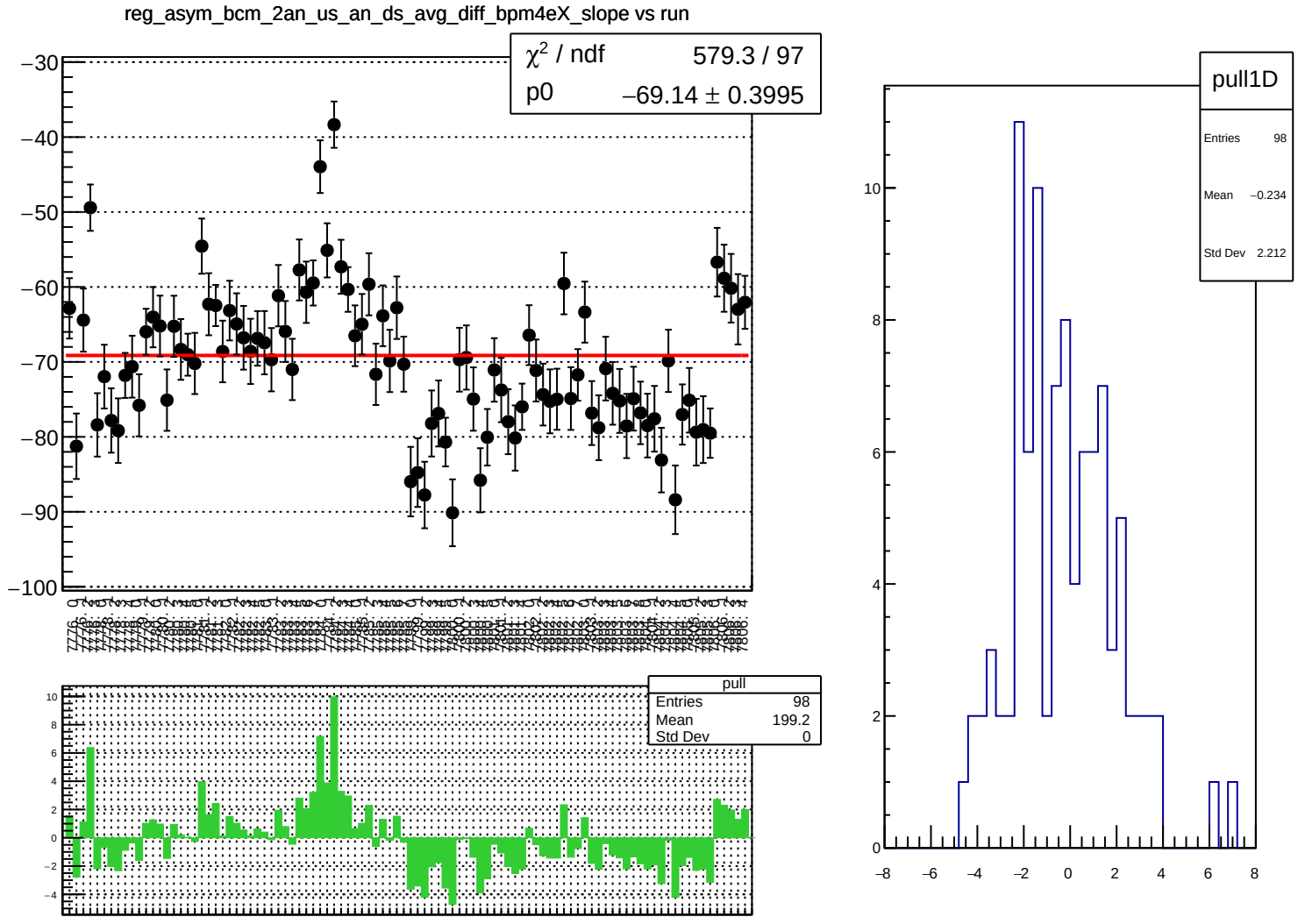

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 143.4 / 97
p0 25.71 ± 0.5392
pull
Entries 98
Mean 308.6
Std Dev 0
pull1D
Entries 98
Mean 0.04642
Std Dev 1.209

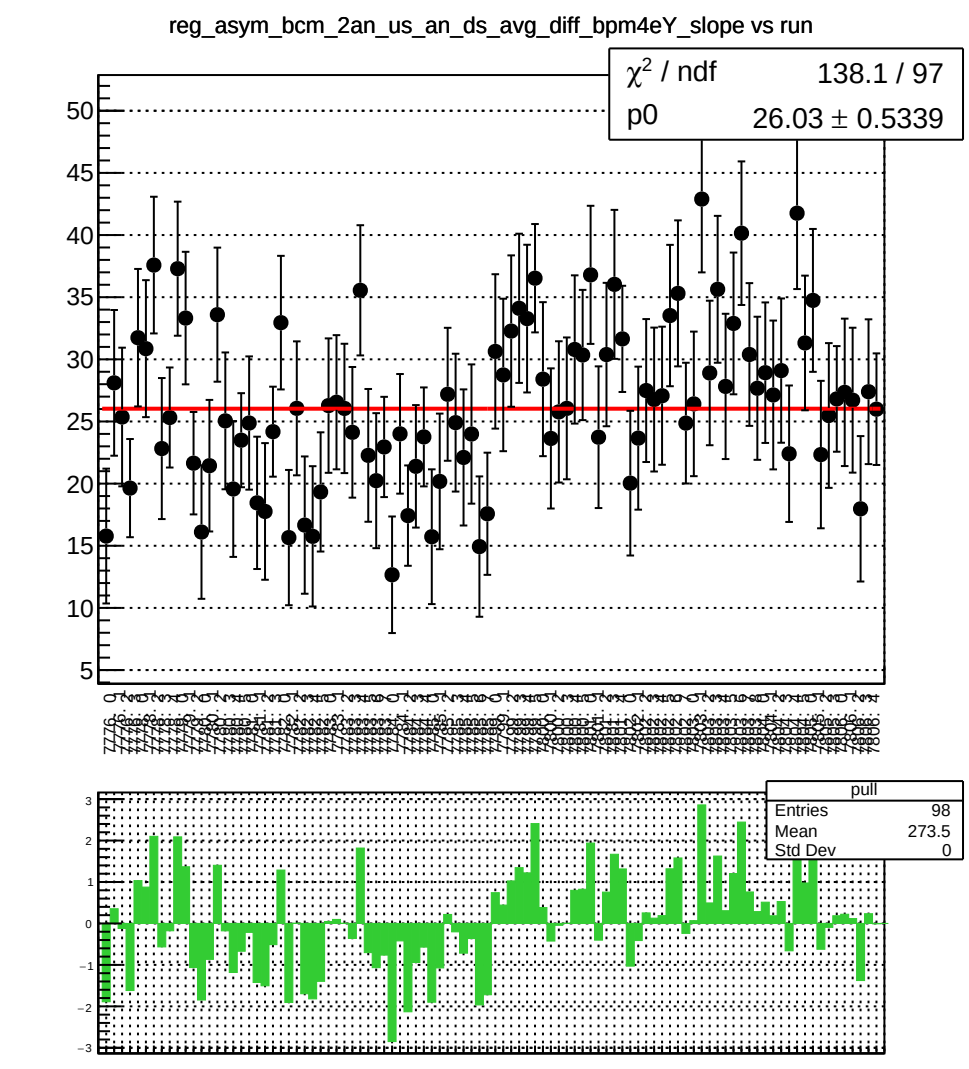

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 365.5 / 97
p0 1.958 ± 0.01705
pull
Entries 98
Mean 181.2
Std Dev 0
pull1D
Entries 98
Mean 0.129
Std Dev 1.927

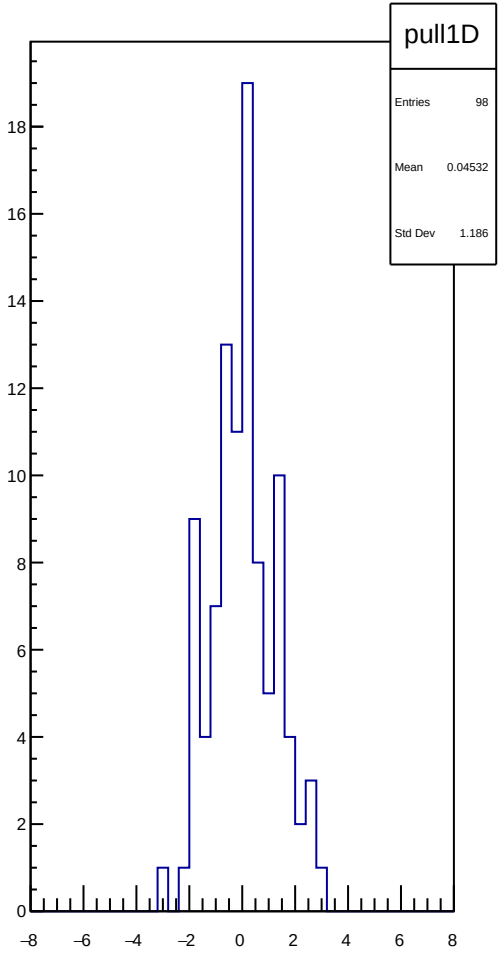

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 614.5 / 97
p0 79.47 ± 0.4593
pull
Entries 98
Mean 181.9
Std Dev 0
pull1D
Entries 98
Mean 0.2468
Std Dev 2.283

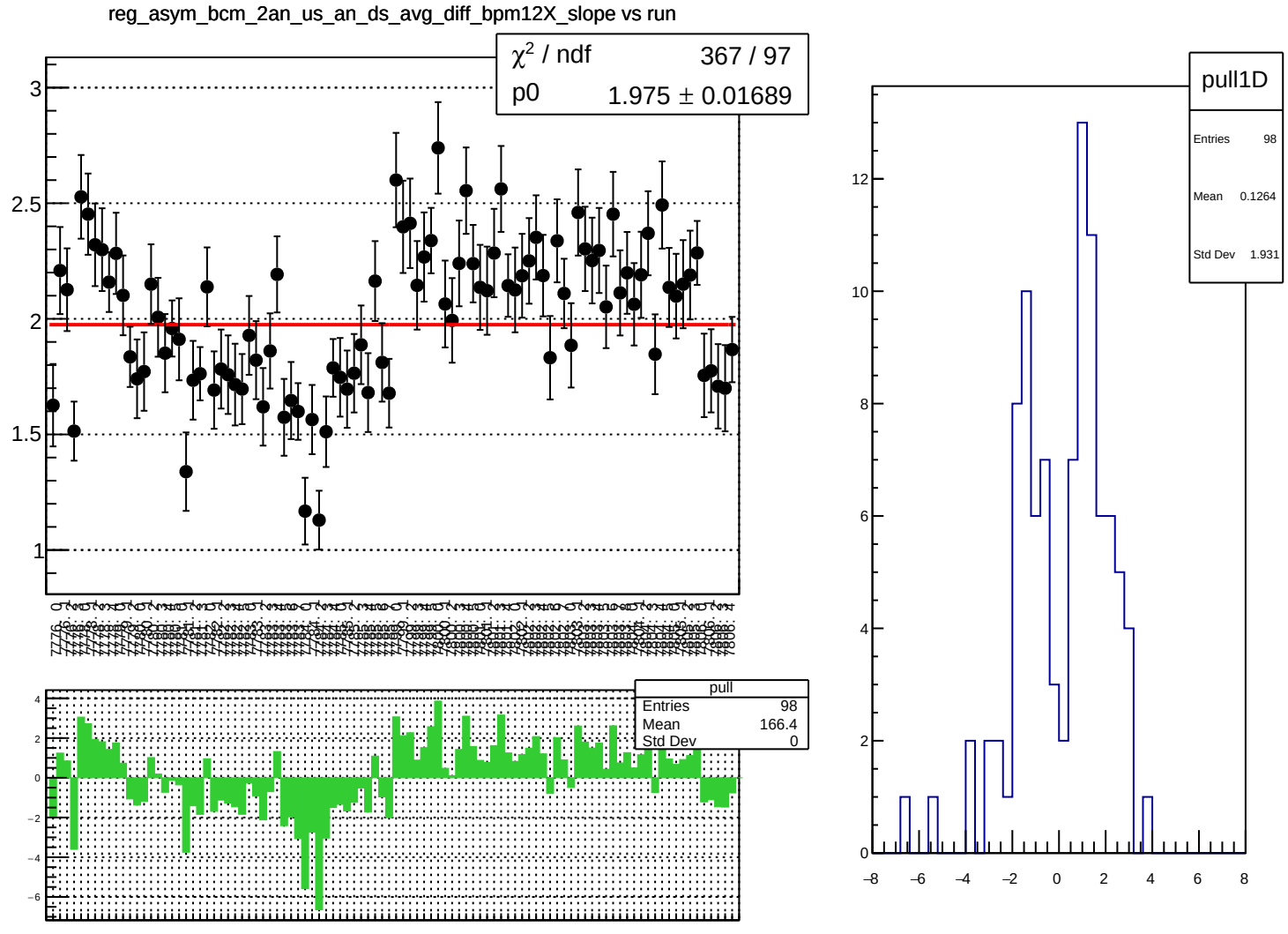

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 147.8 / 97
p0 −24.71 ± 0.4721
pull
Entries 98
Mean 260.6
Std Dev 0

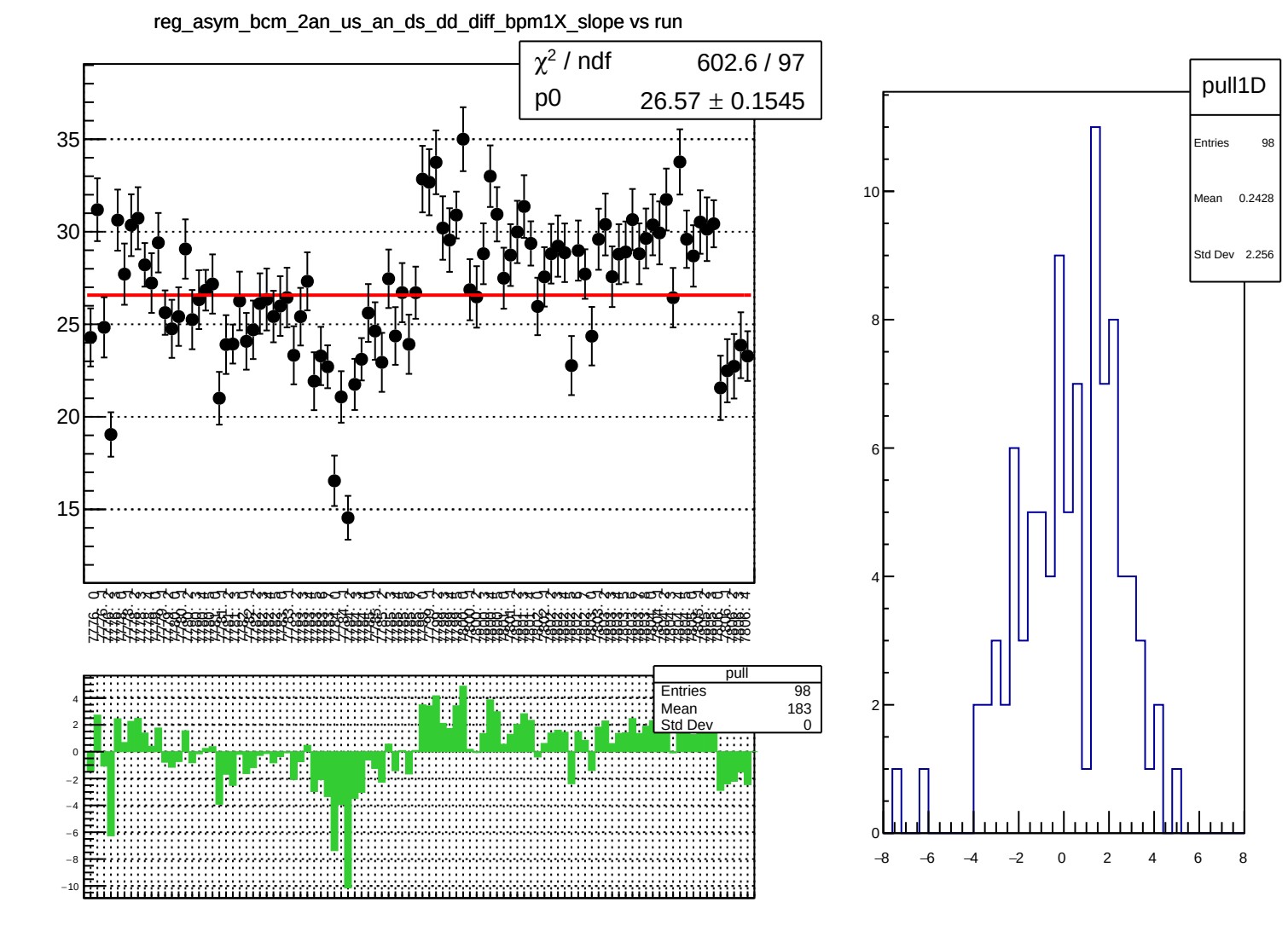

pull1D
Entries 98
Mean −0.04596
Std Dev 1.227

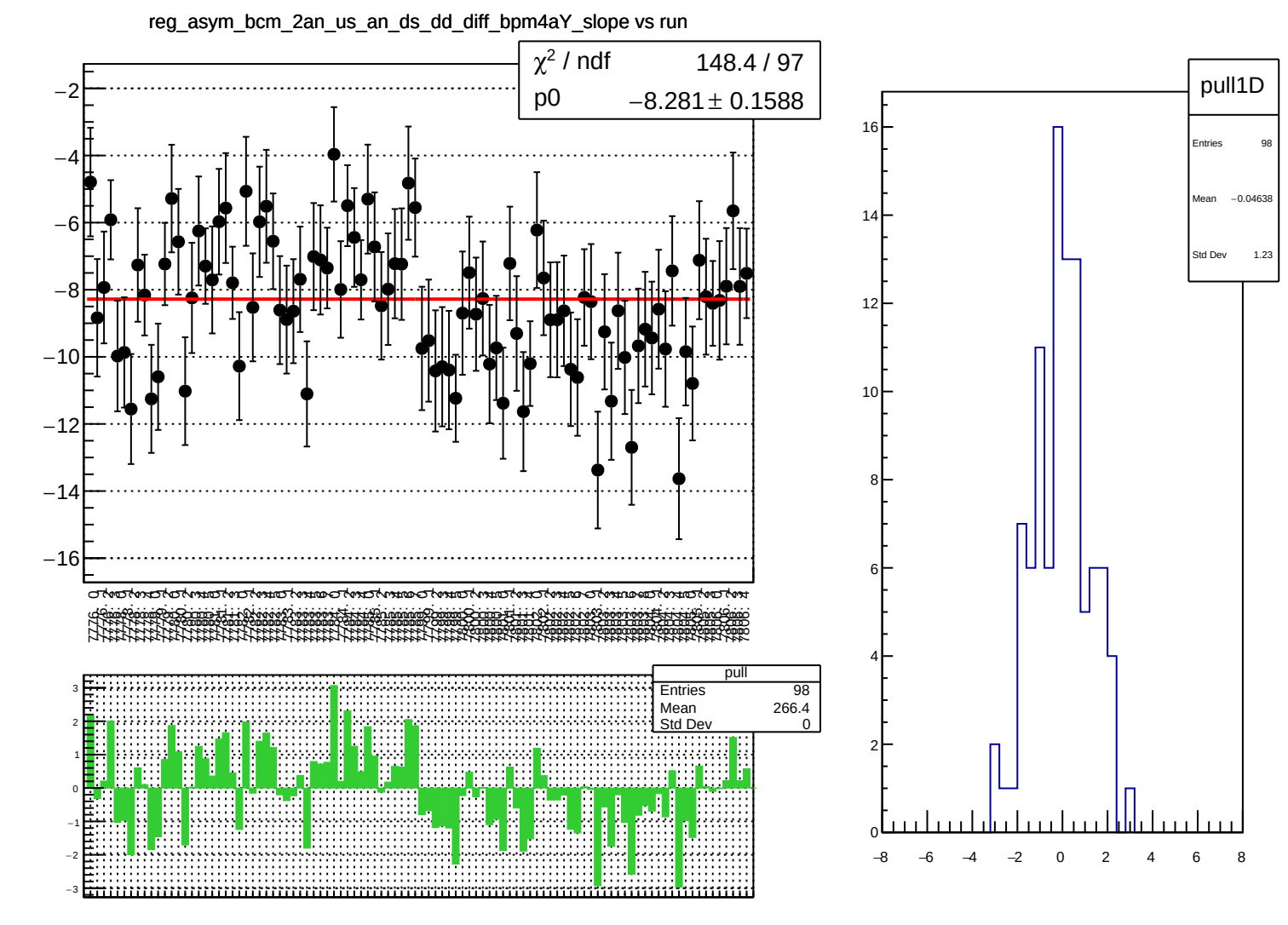

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 579.3 / 97
p0 −69.14 ± 0.3995
pull
Entries 98
Mean 199.2
Std Dev 0
pull1D
Entries 98
Mean −0.234
Std Dev 2.212

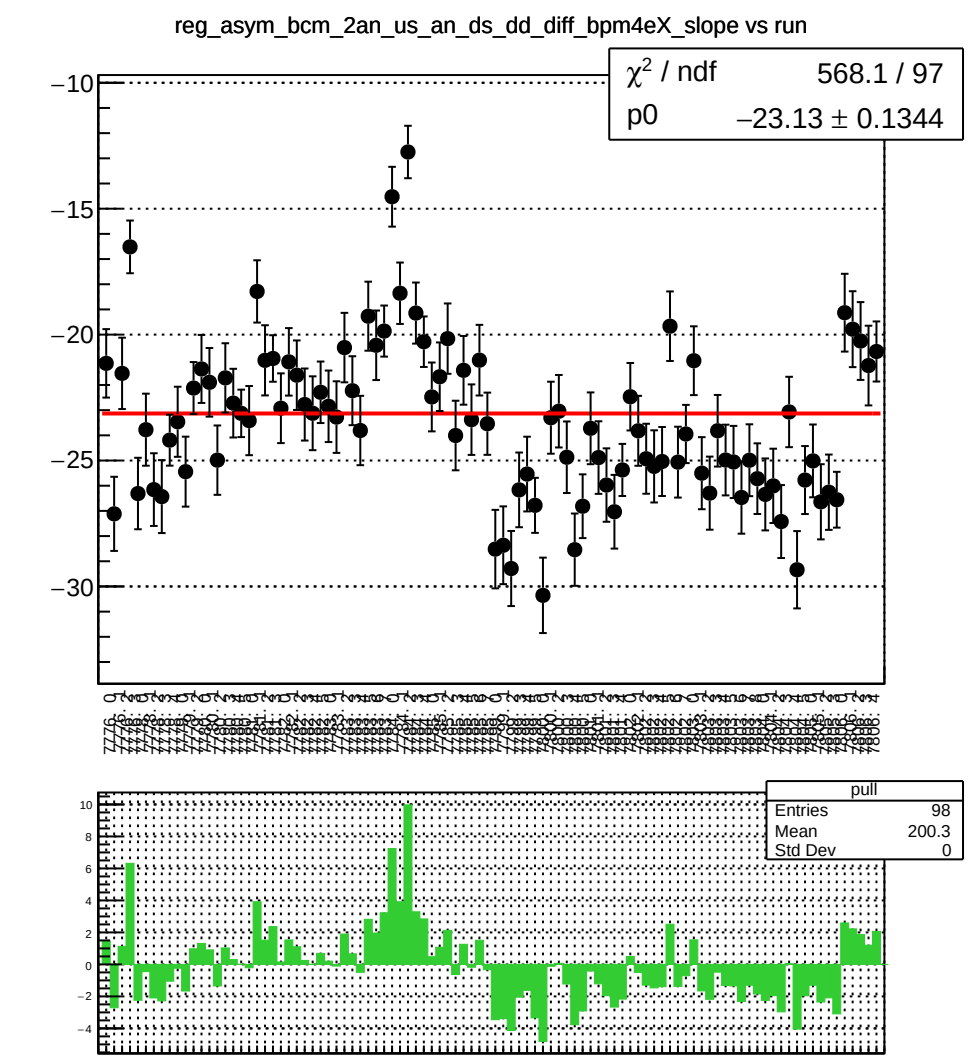

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 138.1 / 97
p0 26.03 ± 0.5339
pull
Entries 98
Mean 273.5
Std Dev 0

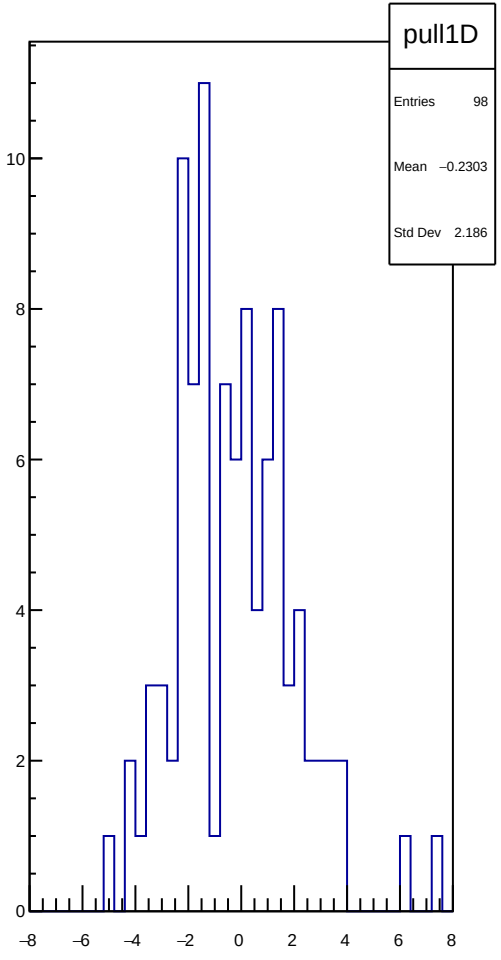

pull1D
Entries 98
Mean 0.04532
Std Dev 1.186

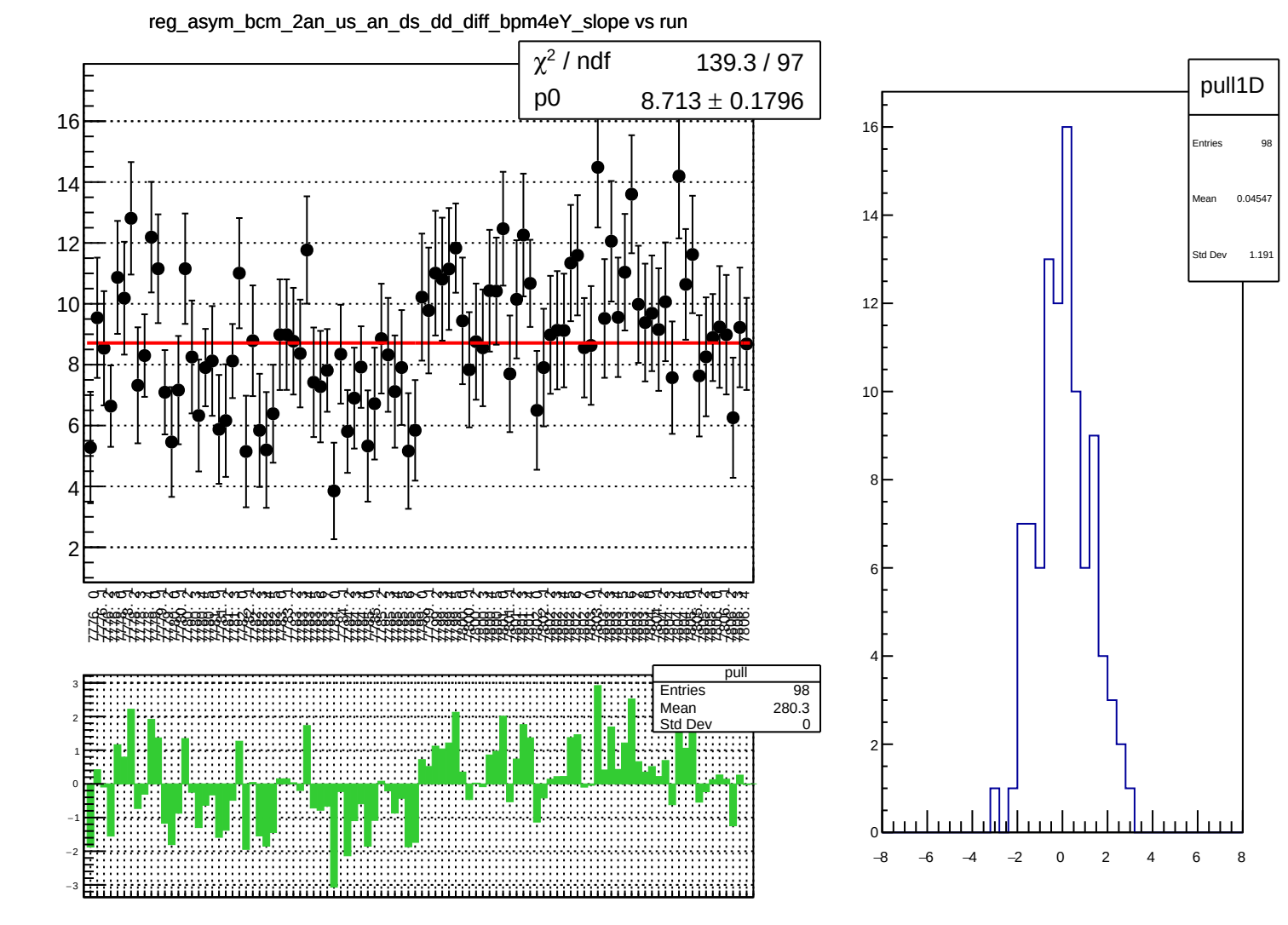

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 367 / 97
p0 1.975 ± 0.01689
pull
Entries 98
Mean 166.4
Std Dev 0
pull1D
Entries 98
Mean 0.1264
Std Dev 1.931

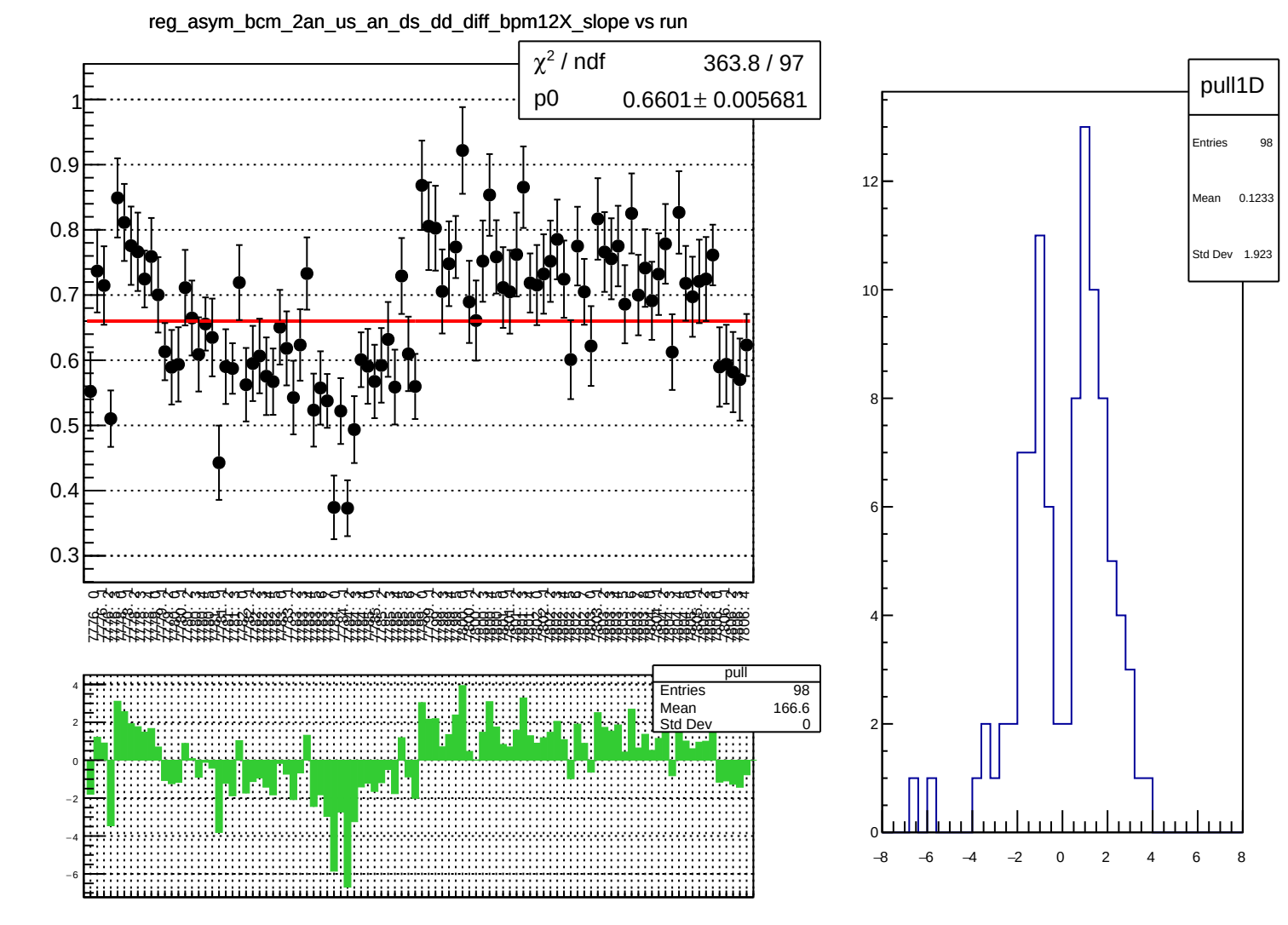

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 602.6 / 97
p0 26.57 ± 0.1545
35
30
25
20
15
pull
Entries 98
Mean 183
Std Dev 0
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 98
Mean 0.2428
Std Dev 2.256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

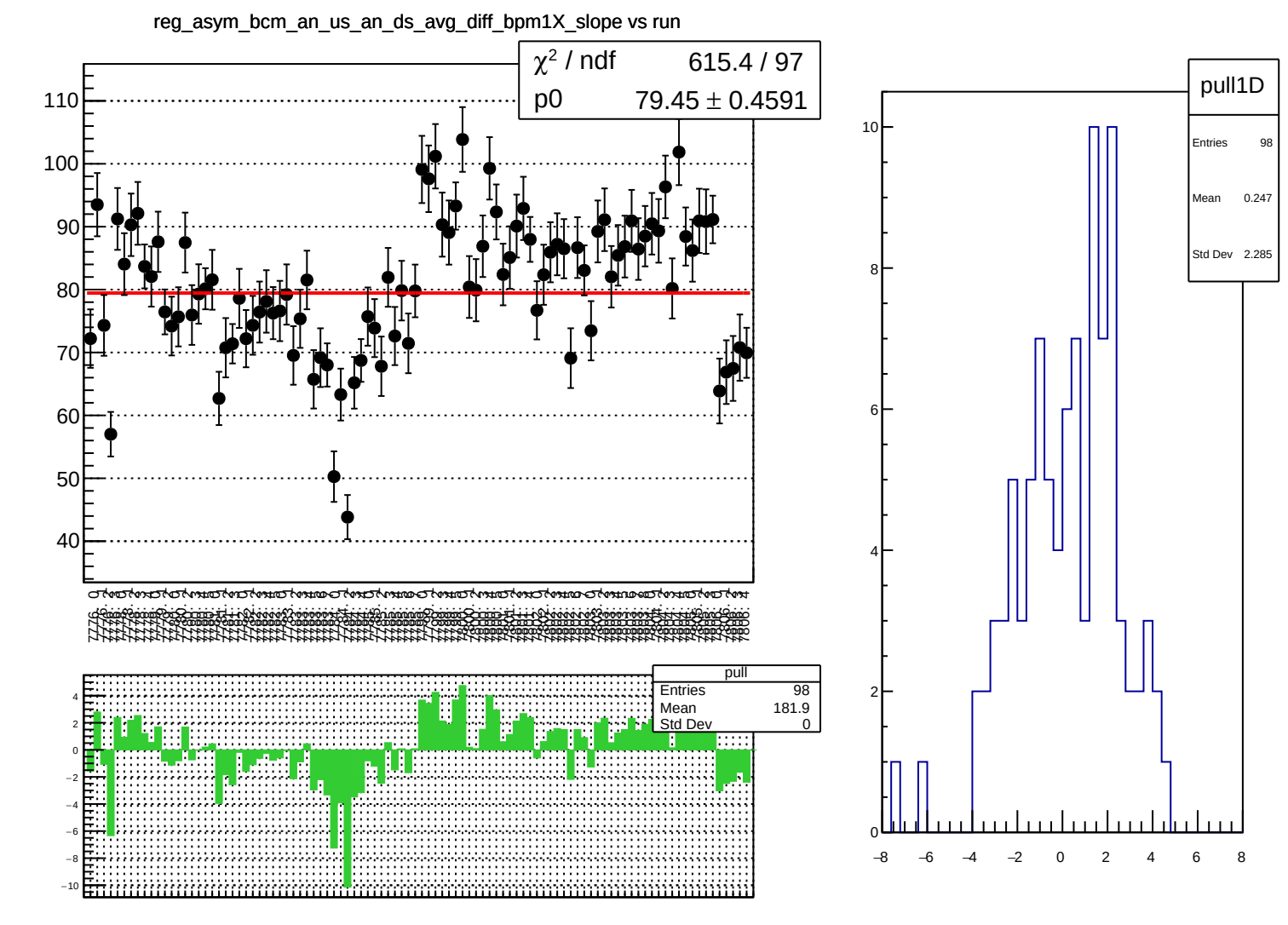

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 148.4 / 97
p0 −8.281 ± 0.1588
pull
Entries 98
Mean 266.4
Std Dev 0
pull1D
Entries 98
Mean −0.04638
Std Dev 1.23

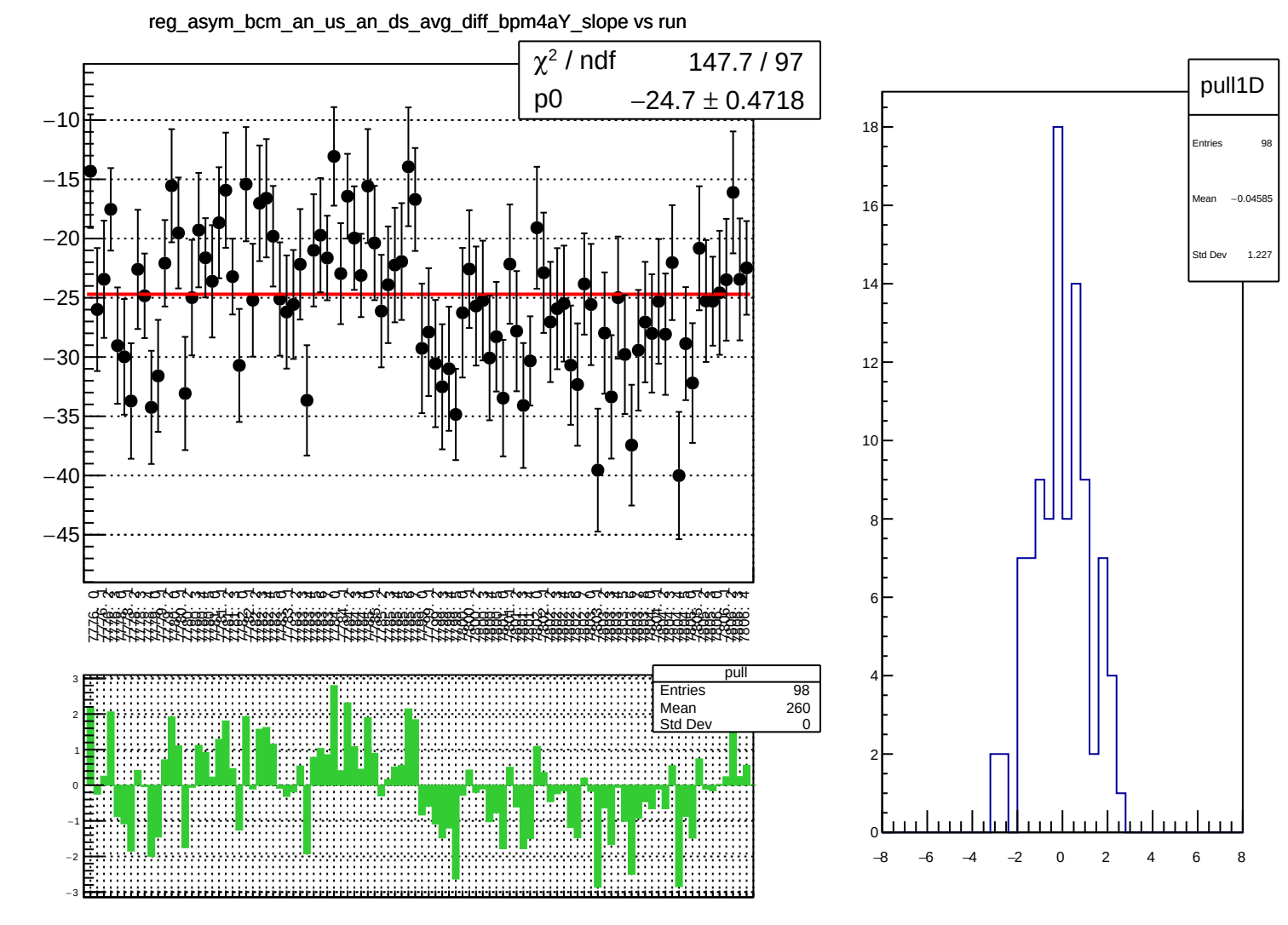

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 568.1 / 97
p0 −23.13 ± 0.1344
pull
Entries 98
Mean 200.3
Std Dev 0

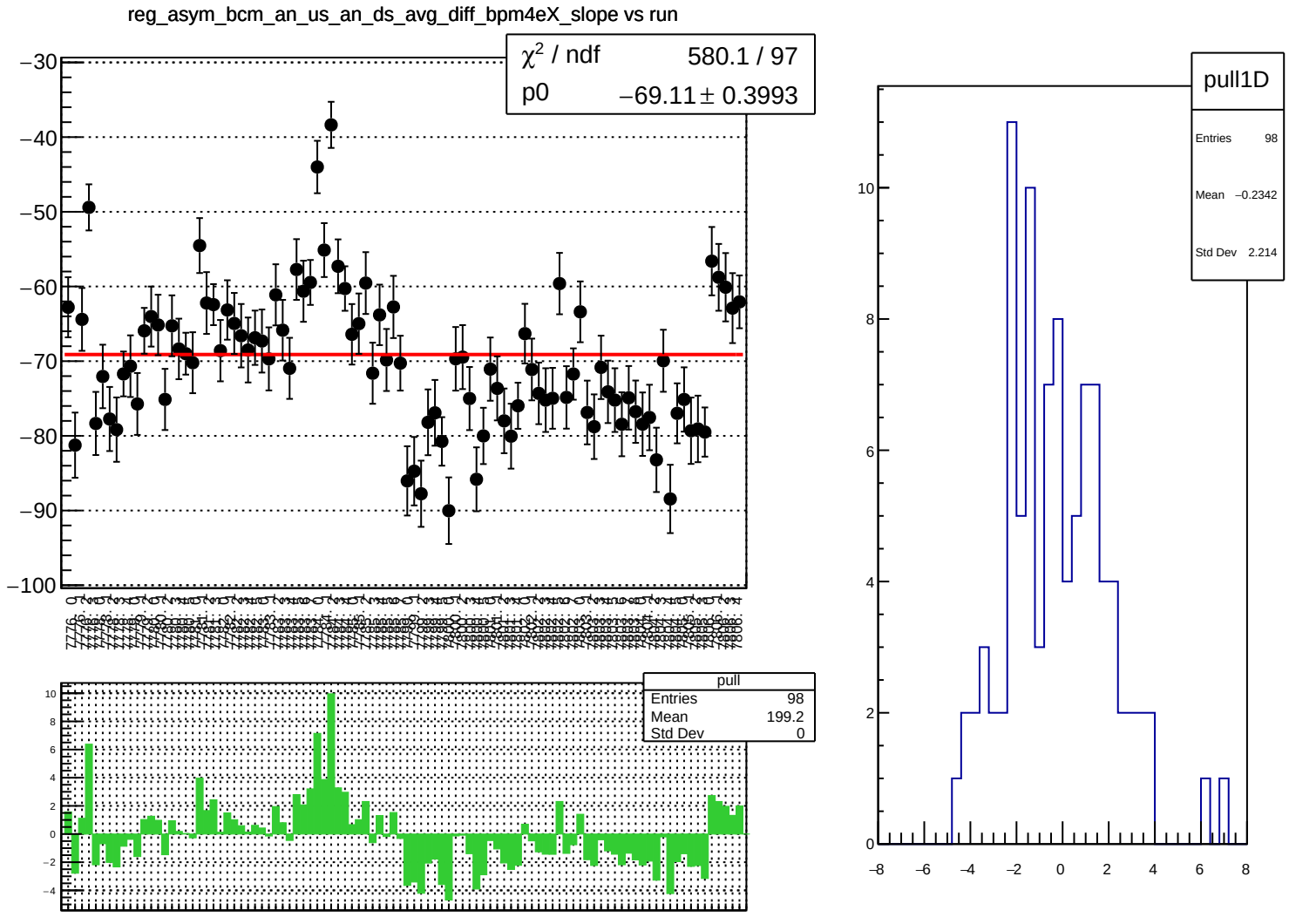

pull1D
Entries 98
Mean −0.2303
Std Dev 2.186

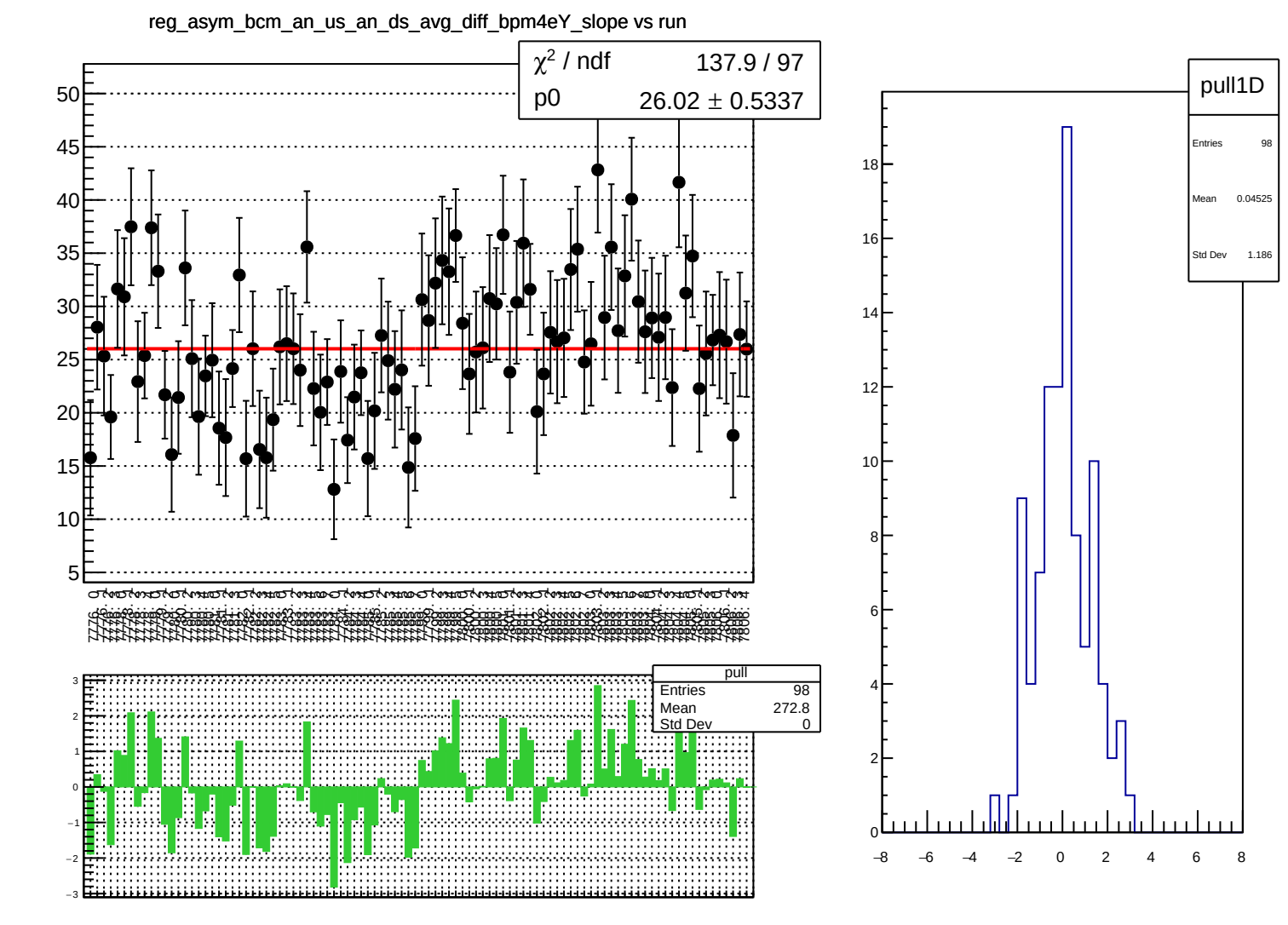

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 139.3 / 97
p0 8.713 ± 0.1796
pull
Entries 98
Mean 280.3
Std Dev 0
pull1D
Entries 98
Mean 0.04547
Std Dev 1.191

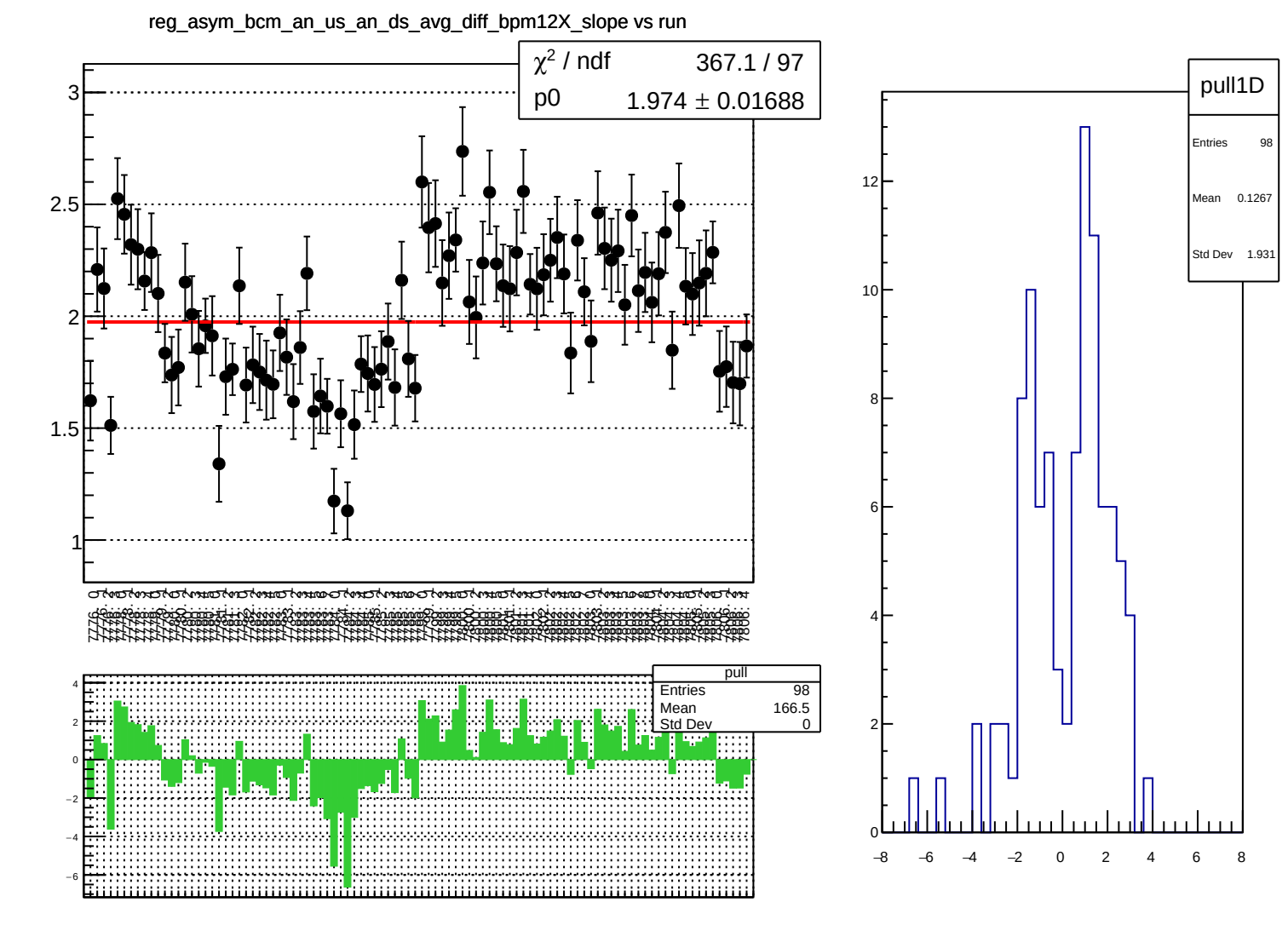

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 363.8 / 97
p0 0.6601 ± 0.005681
pull
Entries 98
Mean 166.6
Std Dev 0
pull1D
Entries 98
Mean 0.1233
Std Dev 1.923

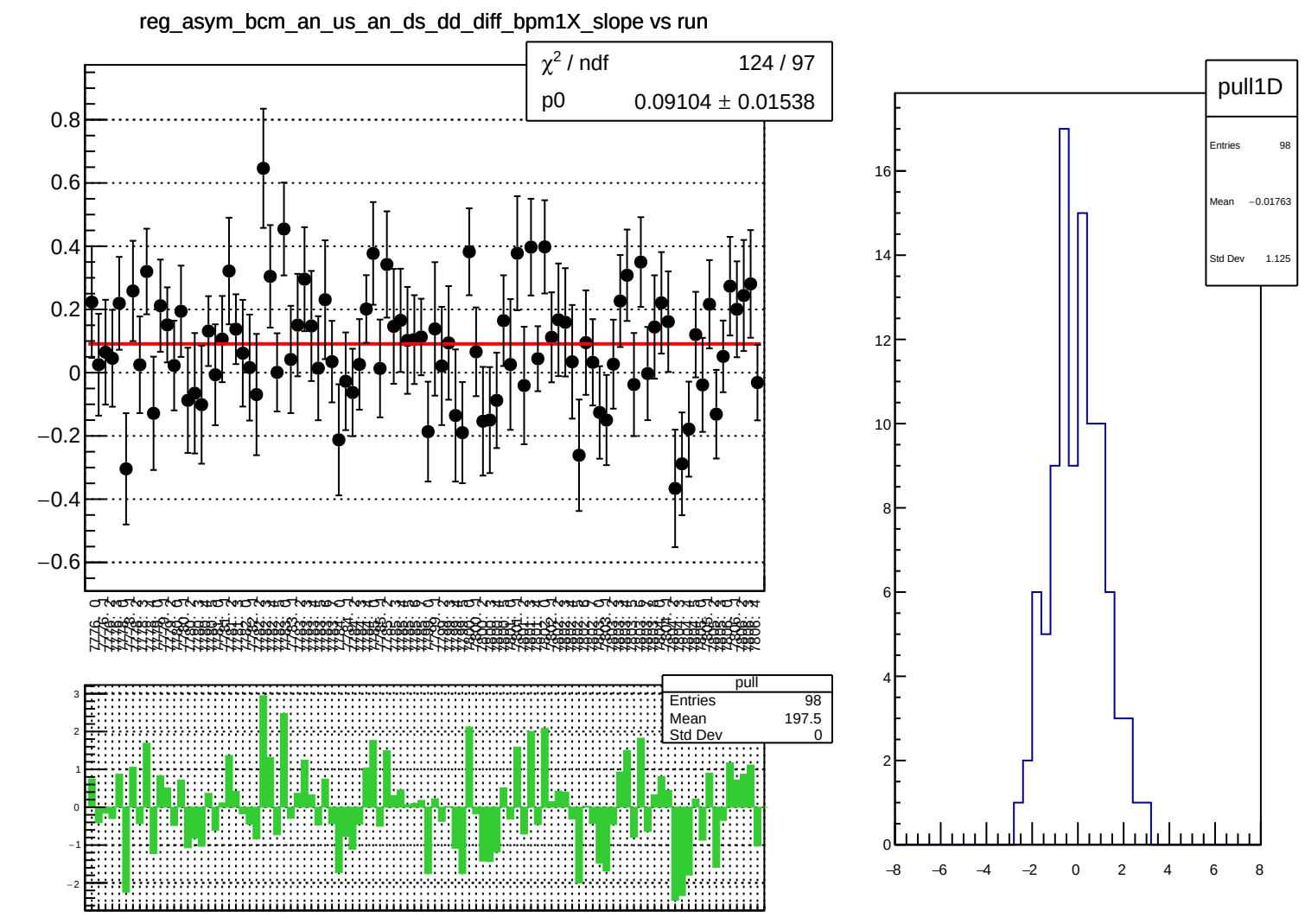

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 615.4 / 97
p0 79.45 ± 0.4591
pull
Entries 98
Mean 181.9
Std Dev 0
pull1D
Entries 98
Mean 0.247
Std Dev 2.285

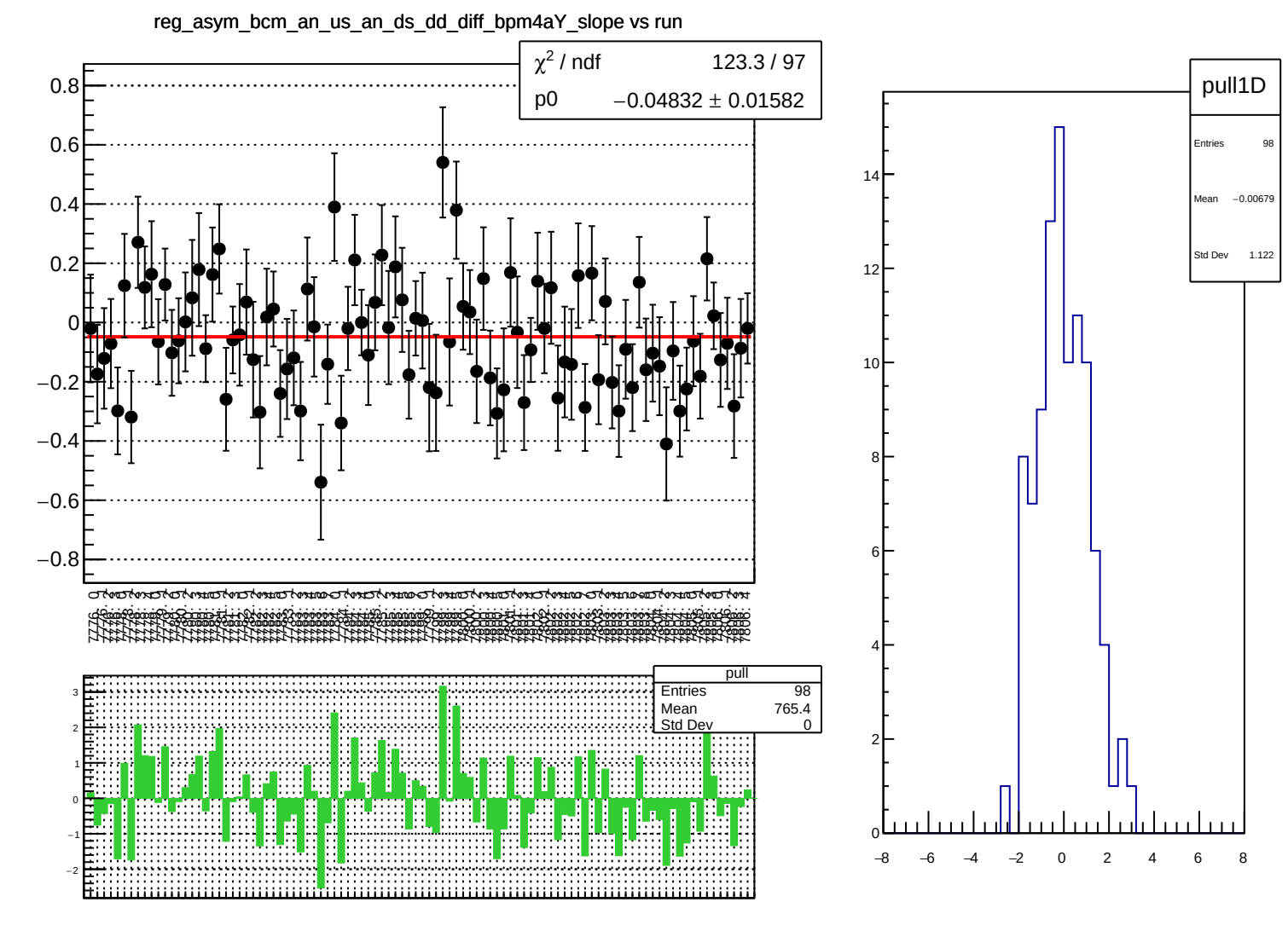

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 147.7 / 97
p0 −24.7 ± 0.4718
pull
Entries 98
Mean 260
Std Dev 0
pull1D
Entries 98
Mean −0.04585
Std Dev 1.227

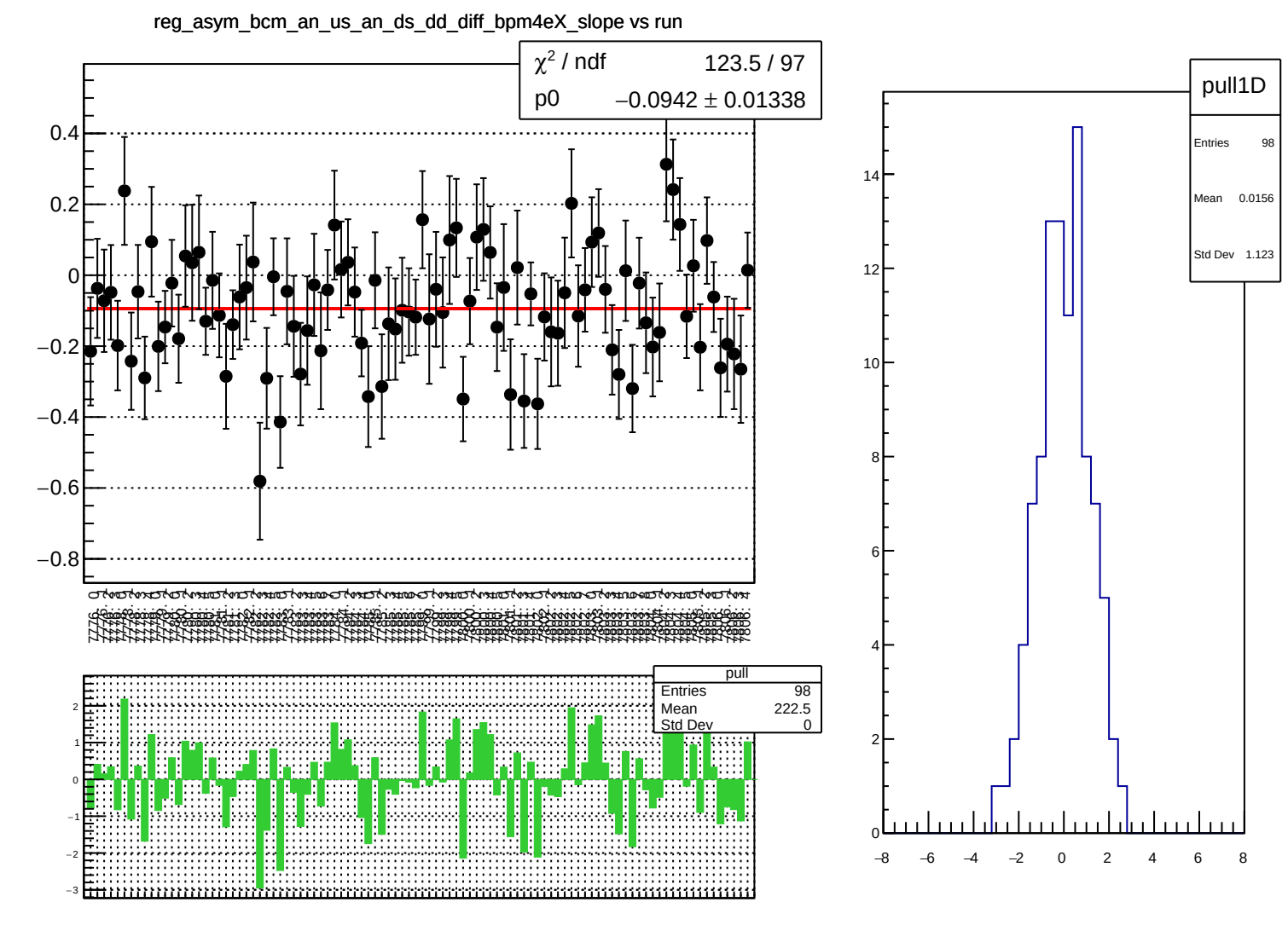

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 580.1 / 97
p0 −69.11 ± 0.3993
pull
Entries 98
Mean 199.2
Std Dev 0
pull1D
Entries 98
Mean −0.2342
Std Dev 2.214

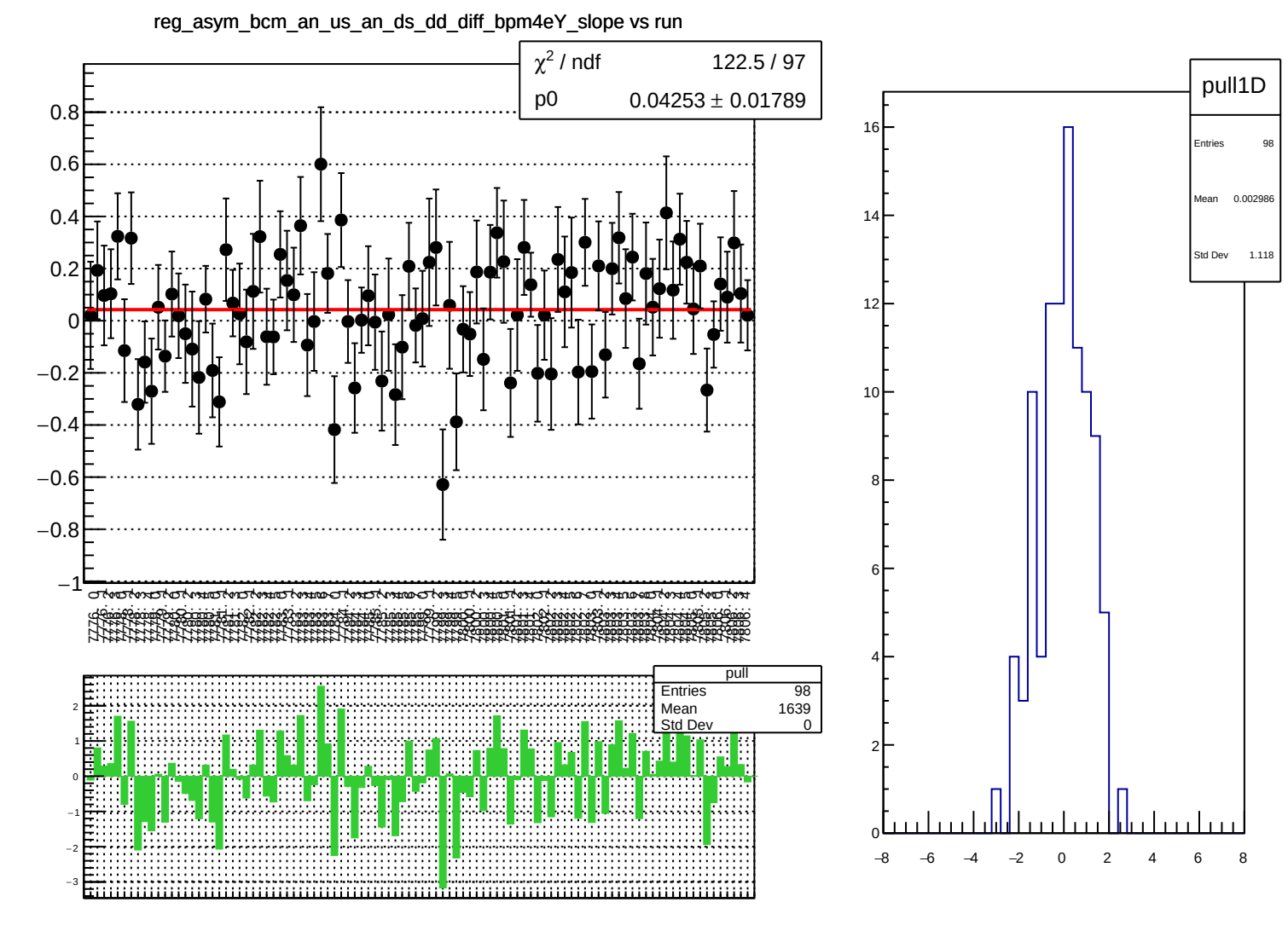

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 137.9 / 97
p0 26.02 ± 0.5337
pull
Entries 98
Mean 272.8
Std Dev 0
pull1D
Entries 98
Mean 0.04525
Std Dev 1.186

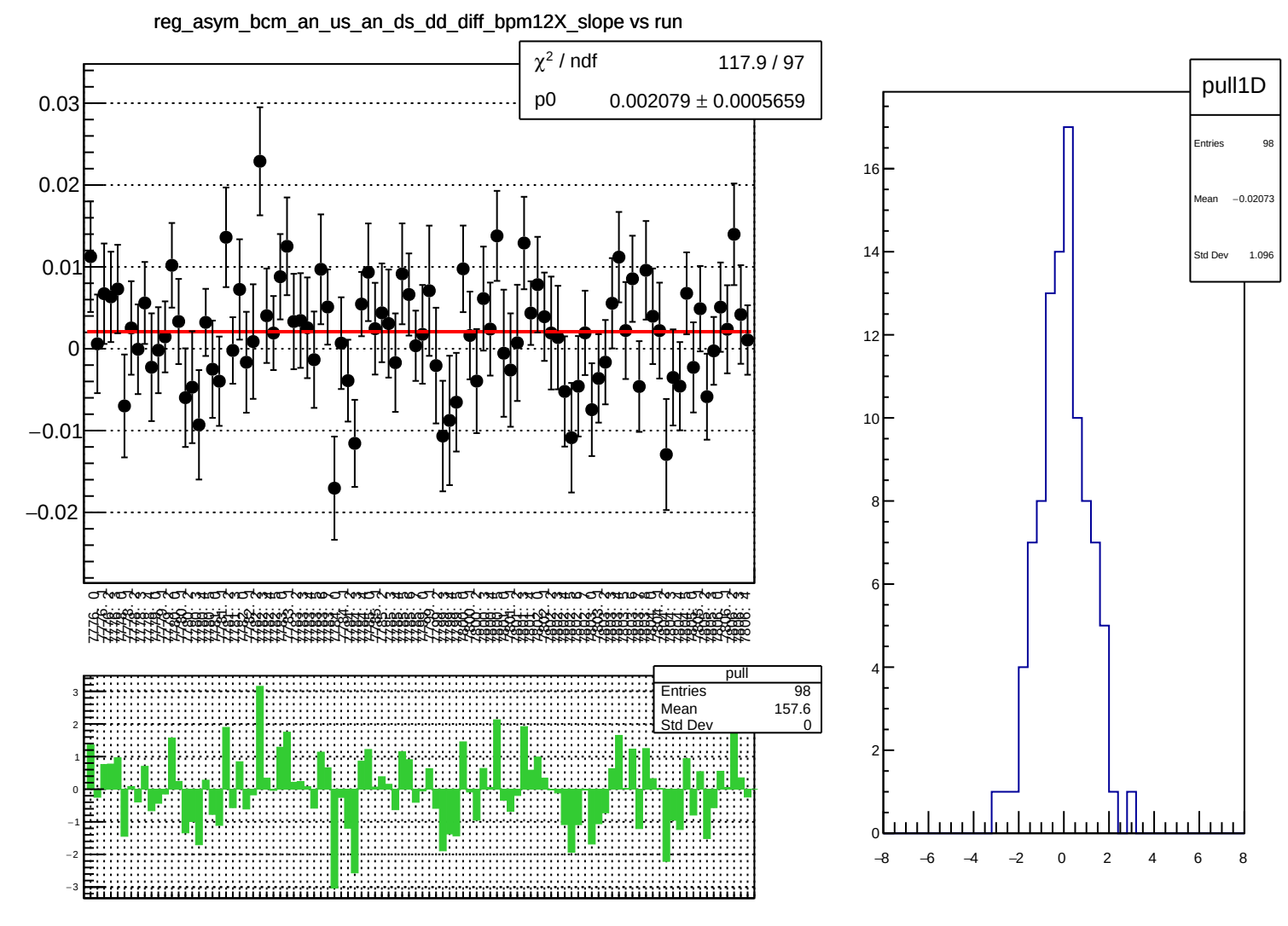

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 367.1 / 97
p0 1.974 ± 0.01688
pull
Entries 98
Mean 166.5
Std Dev 0
pull1D
Entries 98
Mean 0.1267
Std Dev 1.931

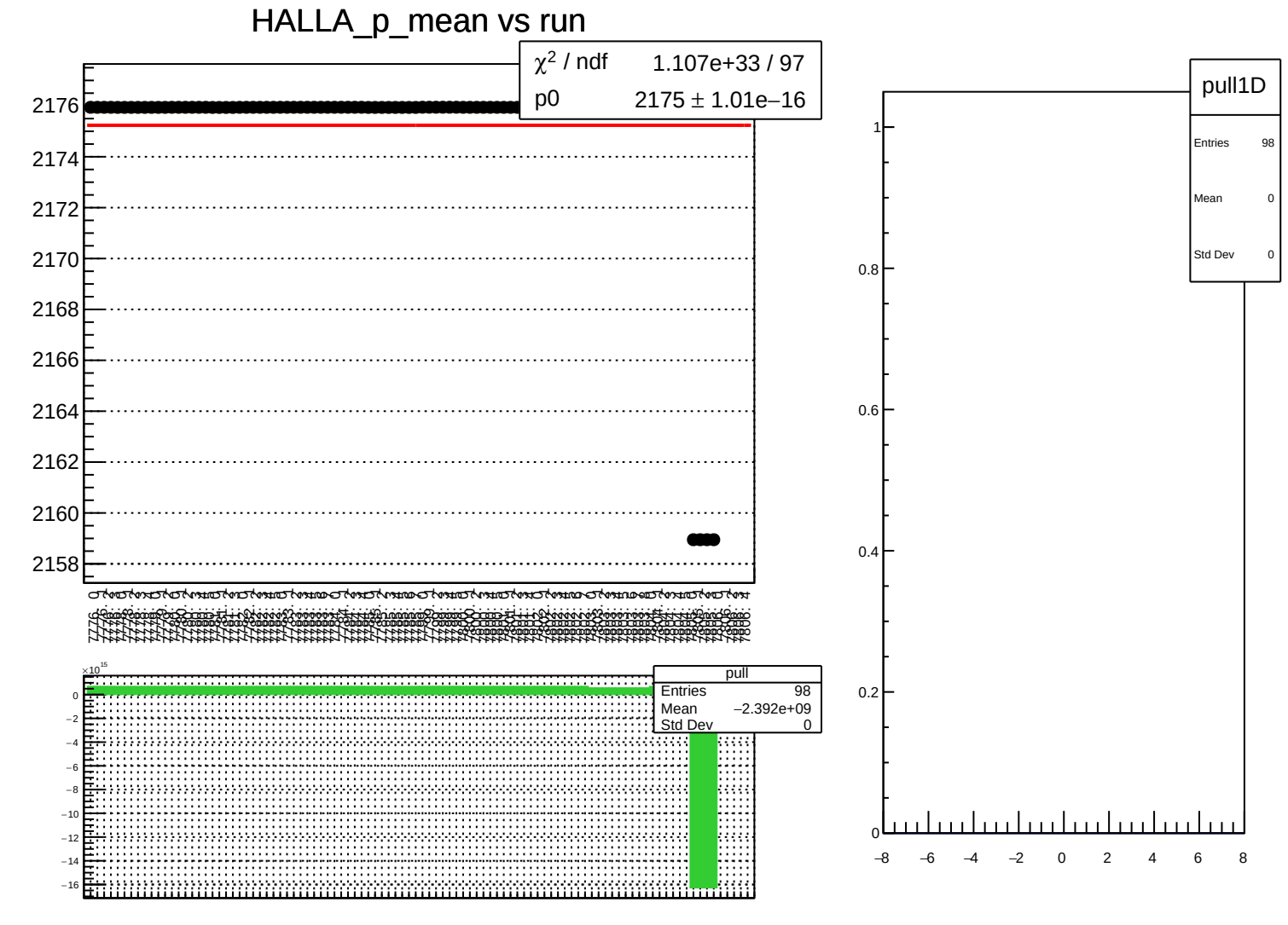

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 124 / 97
p0 0.09104 ± 0.01538
pull
Entries 98
Mean 197.5
Std Dev 0
pull1D
Entries 98
Mean −0.01763
Std Dev 1.125

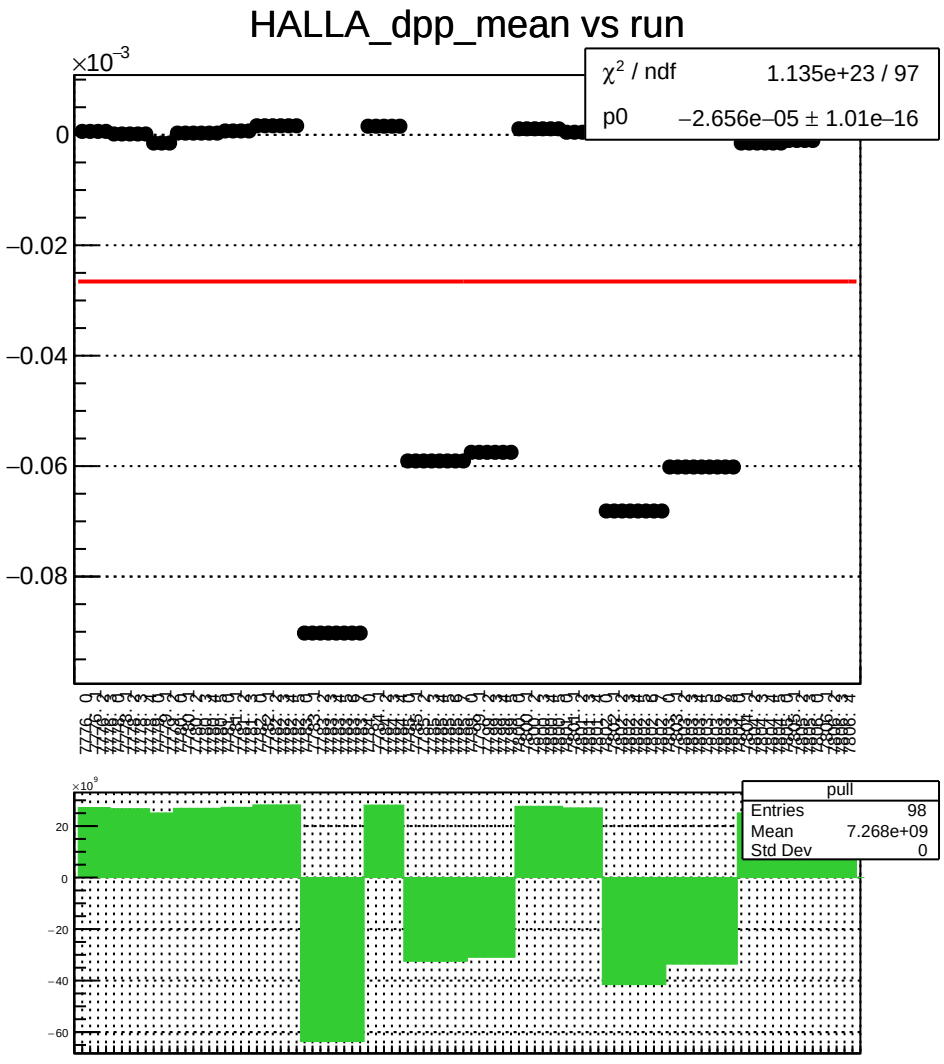

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 123.3 / 97
p0 −0.04832 ± 0.01582
pull
Entries 98
Mean 765.4
Std Dev 0
pull1D
Entries 98
Mean −0.00679
Std Dev 1.122

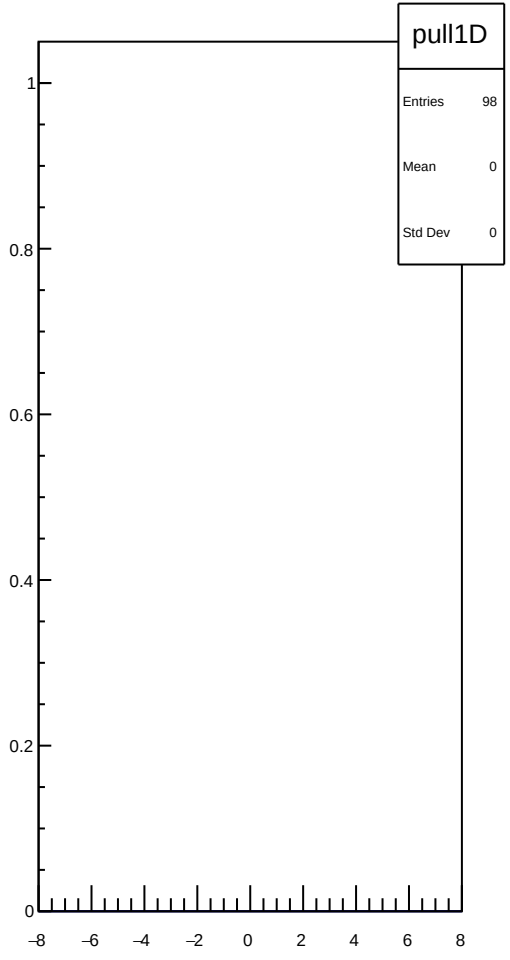

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 123.5 / 97
p0 −0.0942 ± 0.01338
pull
Entries 98
Mean 222.5
Std Dev 0
pull1D
Entries 98
Mean 0.0156
Std Dev 1.123

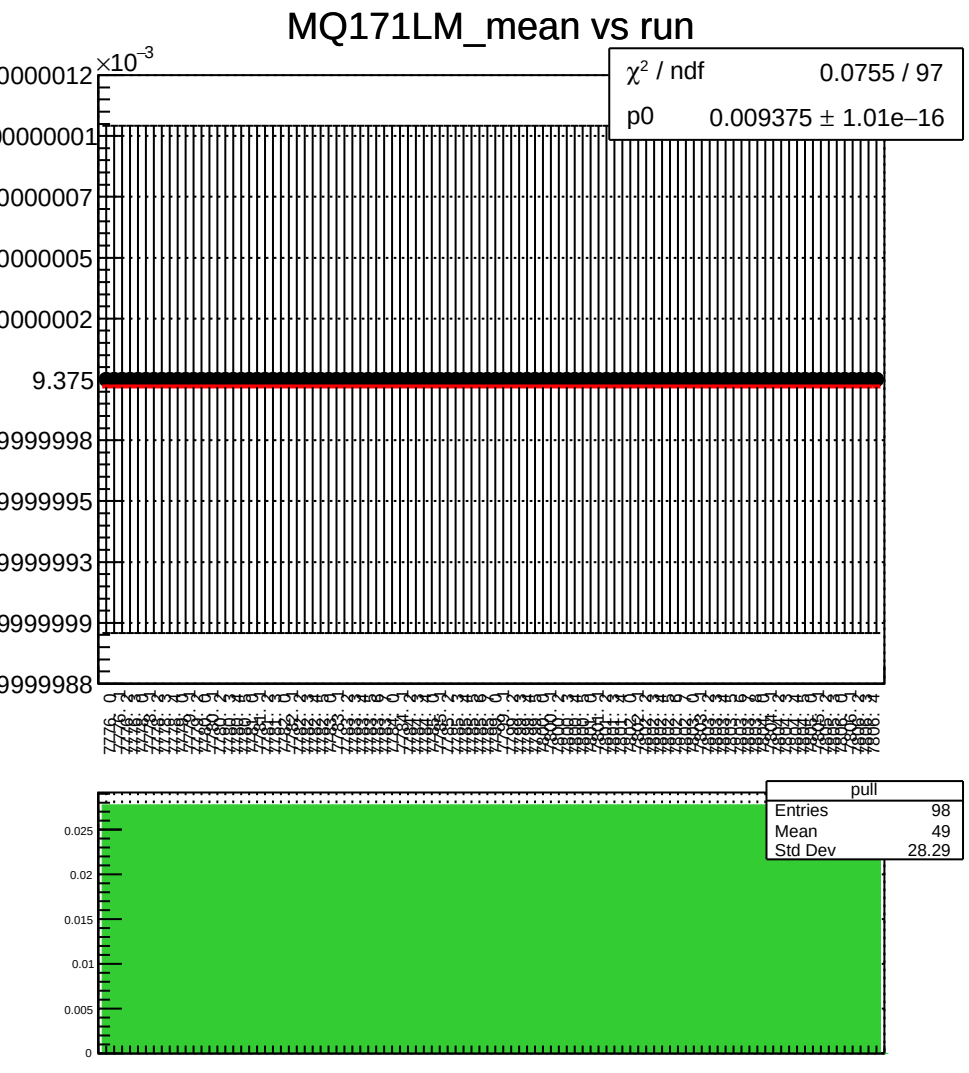

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 122.5 / 97
p0 0.04253 ± 0.01789
pull
Entries 98
Mean 1639
Std Dev 0
pull1D
Entries 98
Mean 0.002986
Std Dev 1.118

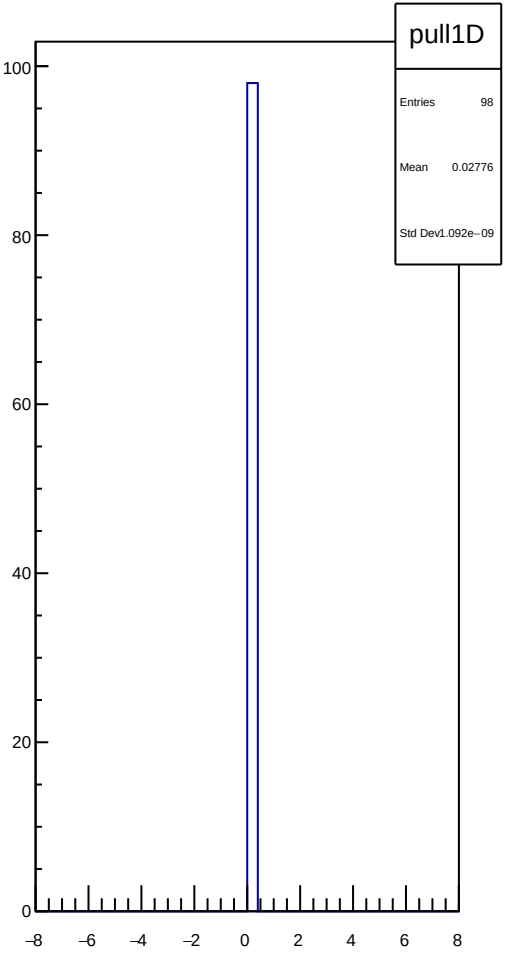

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 117.9 / 97
p0 0.002079 ± 0.0005659
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 98
Mean 157.6
Std Dev 0
pull1D
Entries 98
Mean −0.02073
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

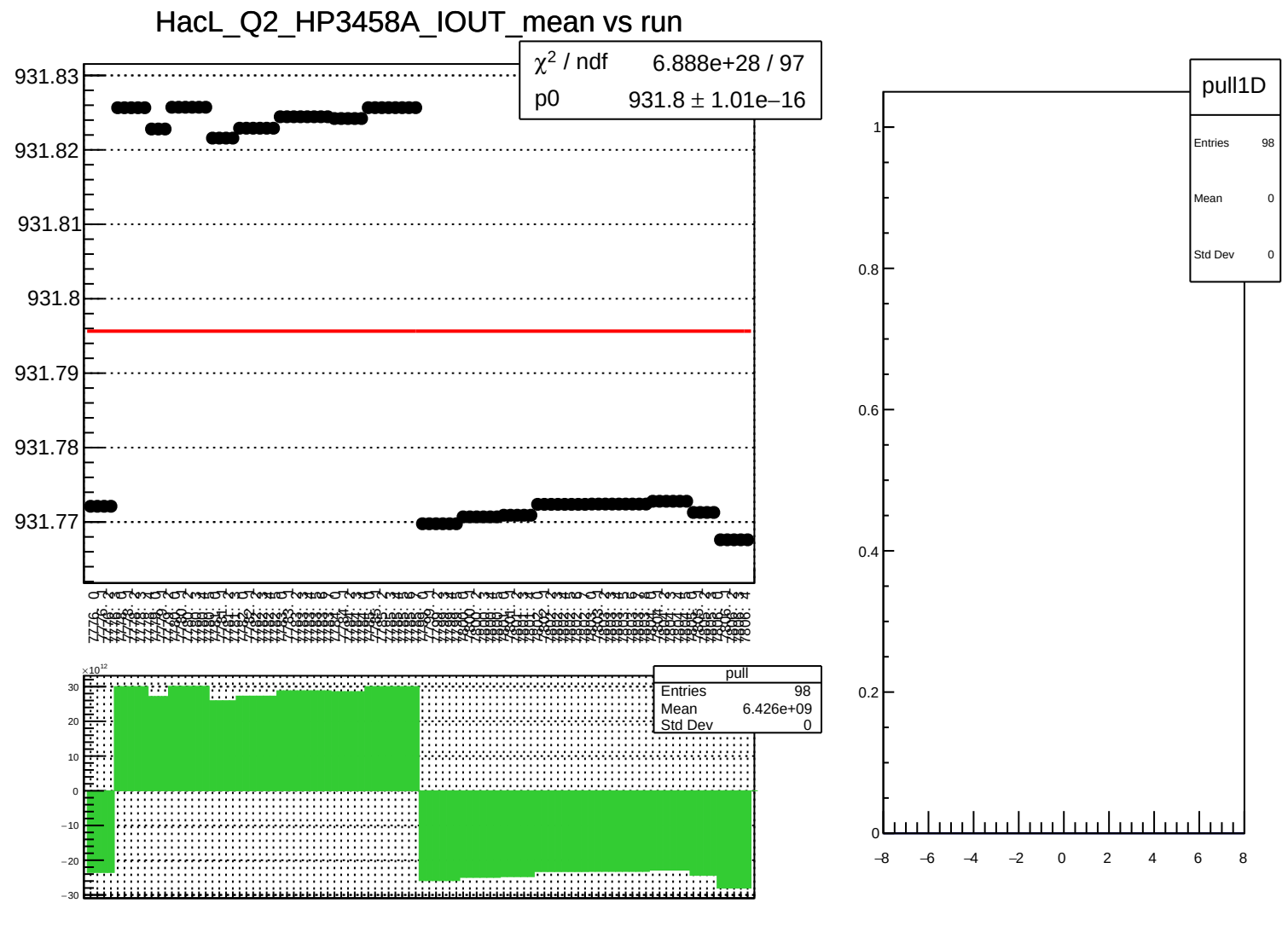

HALLA_p_mean vs run
χ² / ndf 1.107e+33 / 97
p0 2175 ± 1.01e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 98
Mean −2.392e+09
Std Dev 0
×10¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

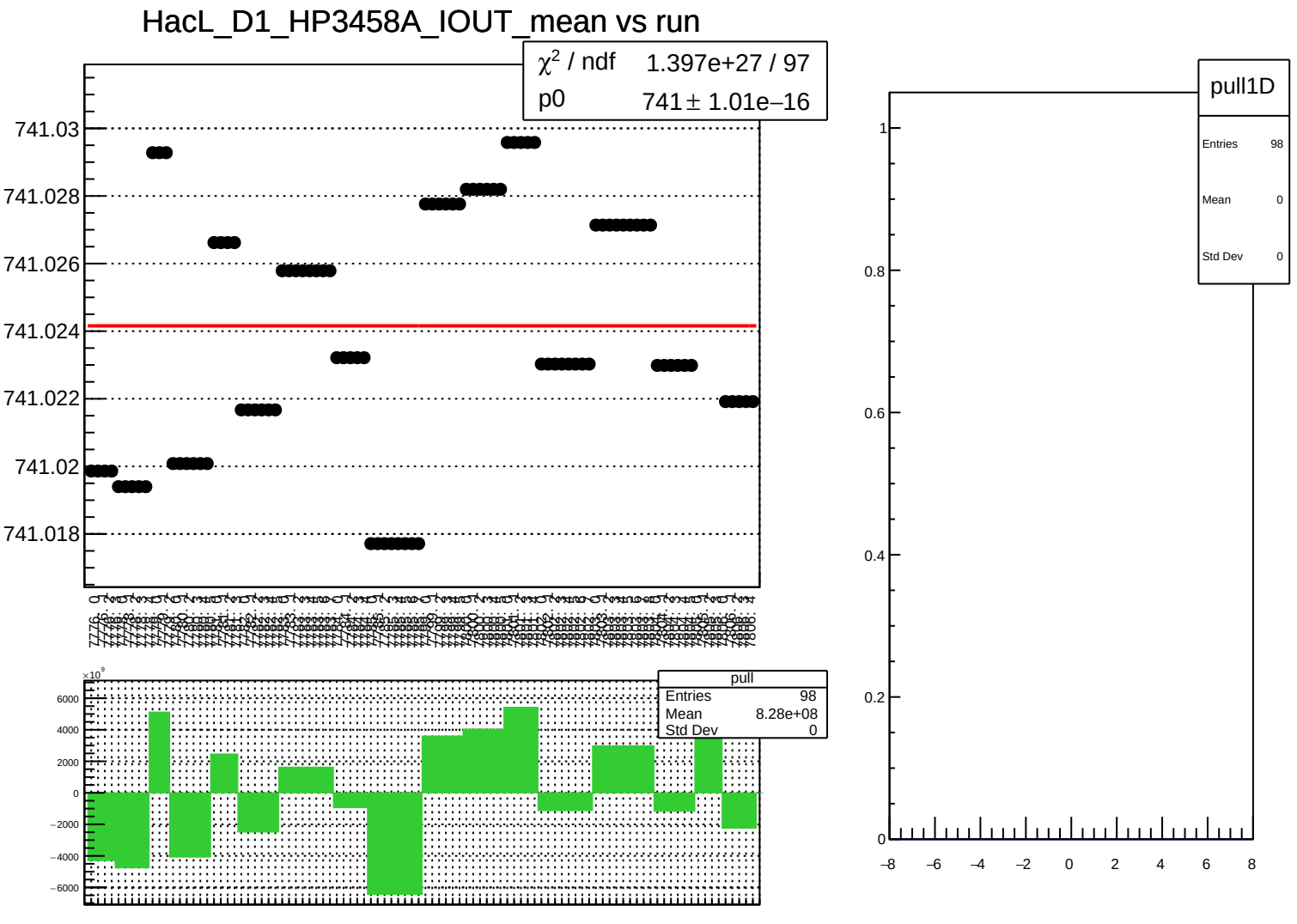

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.135e+23 / 97
p0 −2.656e−05 ± 1.01e−16
0
−0.02
−0.04
−0.06
−0.08
×10⁹
pull
Entries 98
Mean 7.268e+09
Std Dev 0
20
0
−20
−40
−60

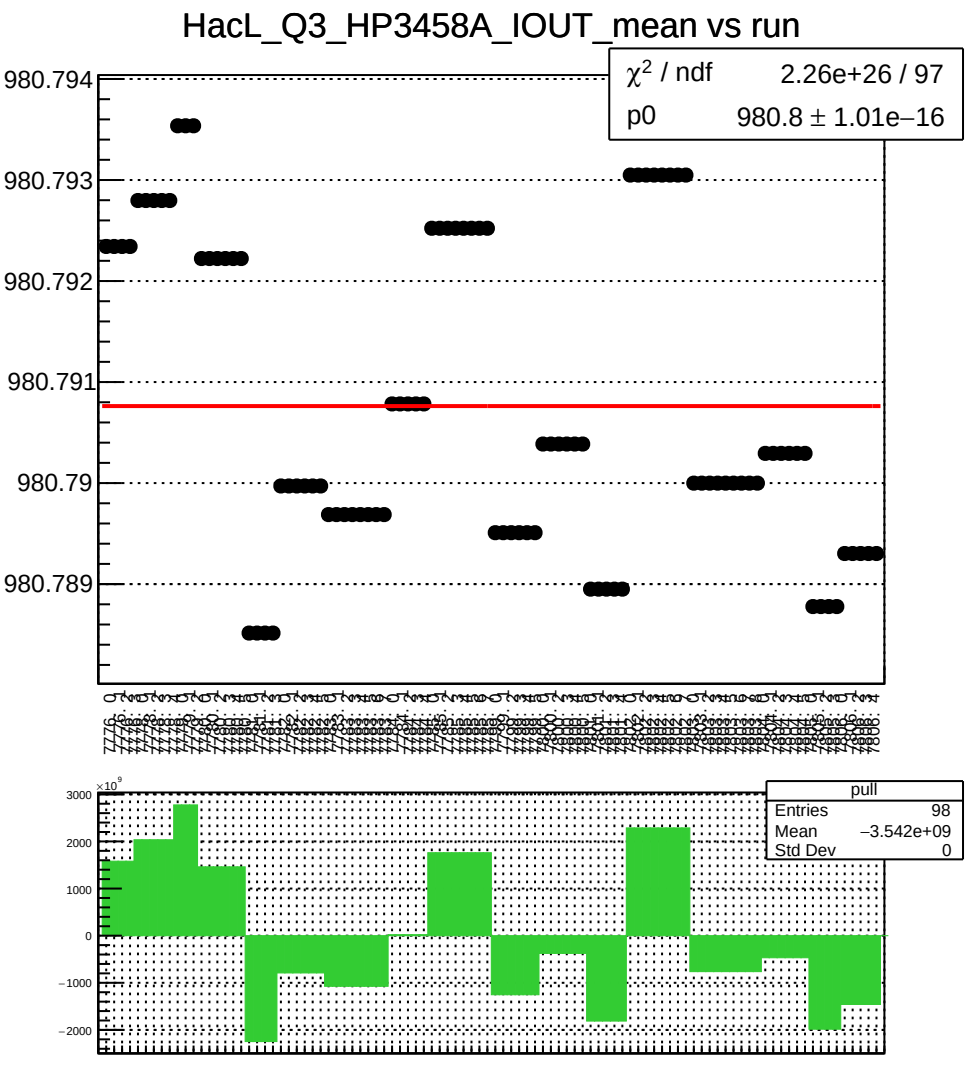

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

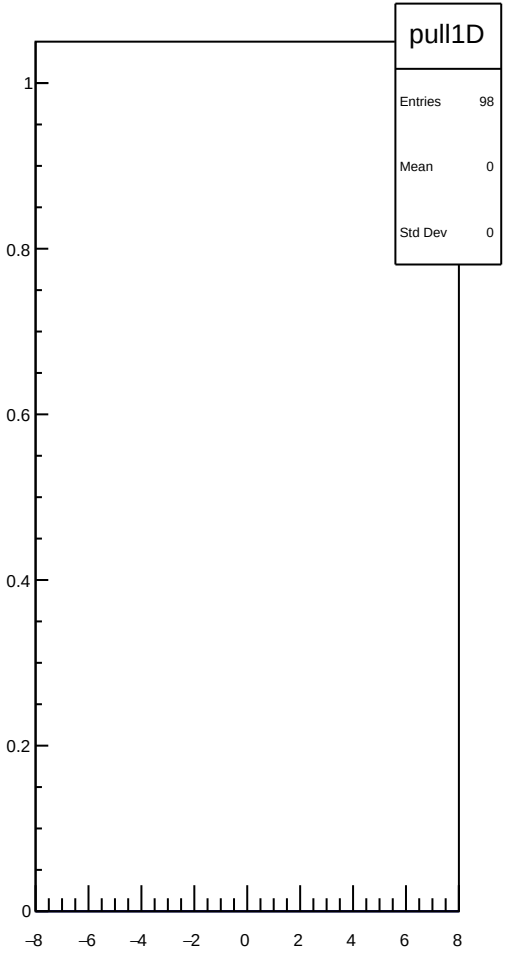

MQ171LM_mean vs run
χ² / ndf 0.0755 / 97
p0 0.009375 ± 1.01e−16
×10⁻³
pull
Entries 98
Mean 49
Std Dev 28.29

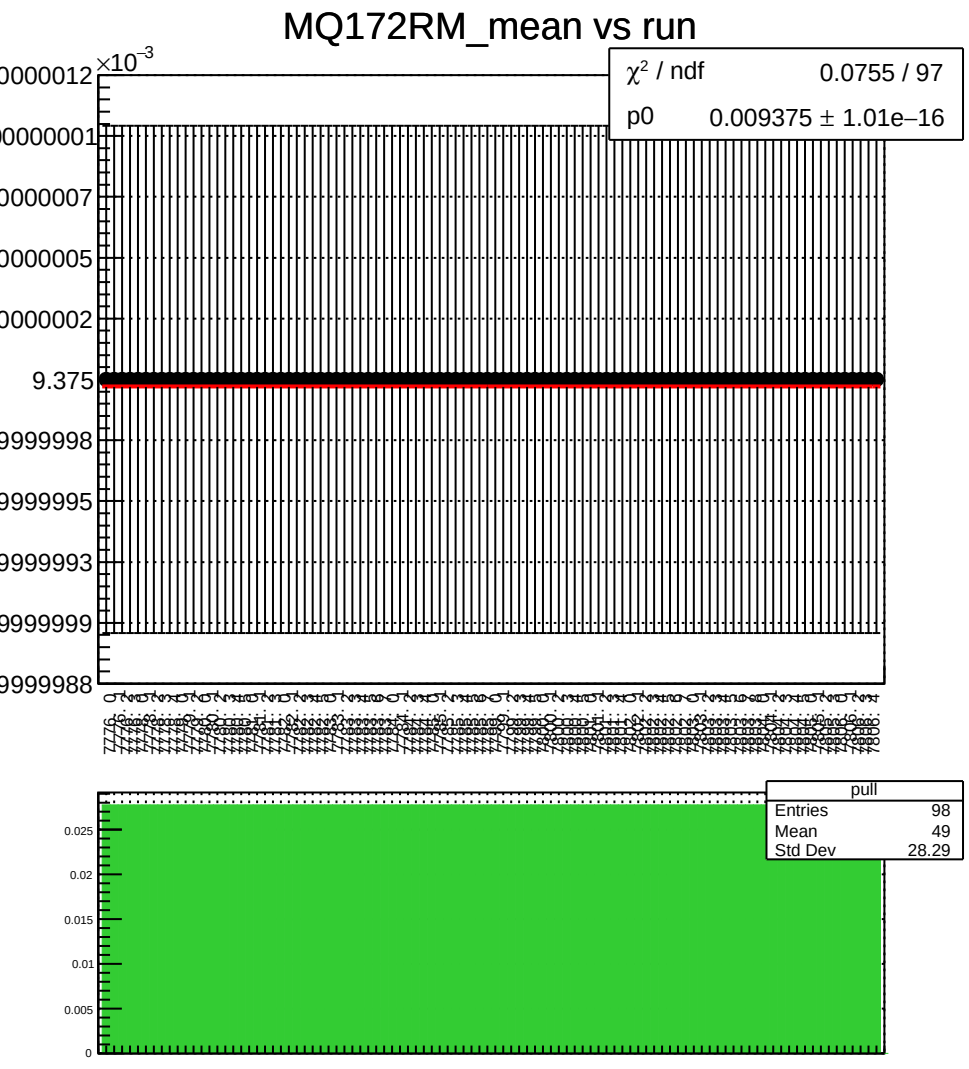

pull1D
Entries 98
Mean 0.02776
Std Dev 1.092e−09

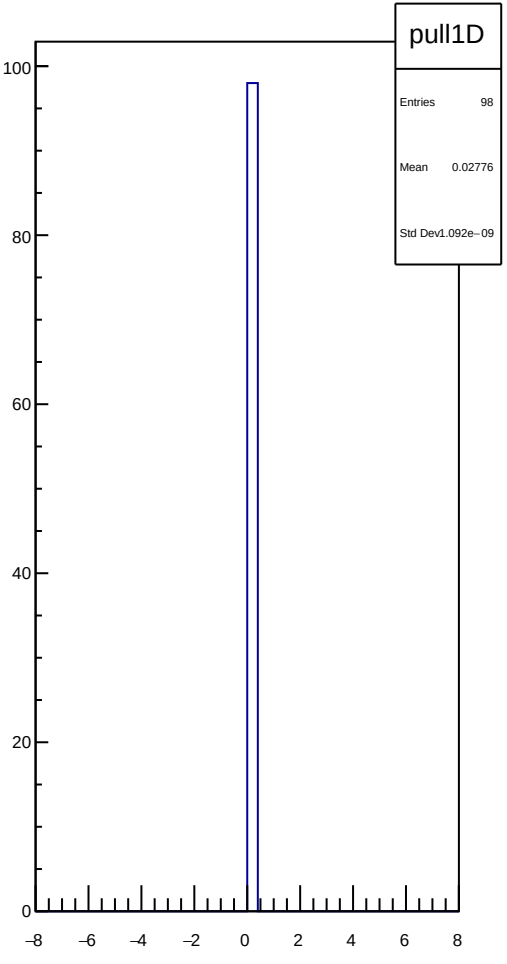

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 6.888e+28 / 97
p0 931.8 ± 1.01e−16
931.83
931.82
931.81
931.8
931.79
931.78
931.77
pull
Entries 98
Mean 6.426e+09
Std Dev 0
×10¹²
30
20
10
0
−10
−20
−30
pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

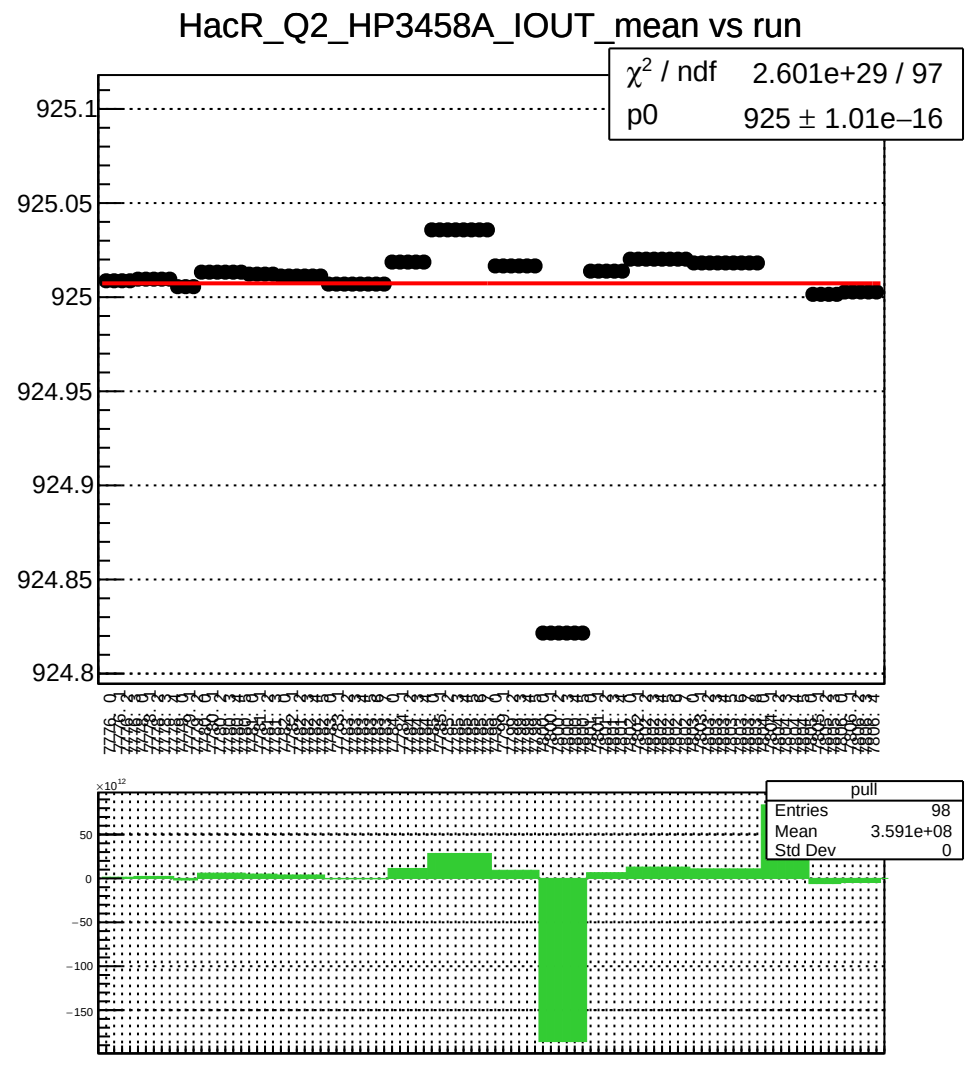

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.397e+27 / 97
p0 741 ± 1.01e−16
741.03
741.028
741.026
741.024
741.022
741.02
741.018
×10⁹
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 98
Mean 8.28e+08
Std Dev 0
pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

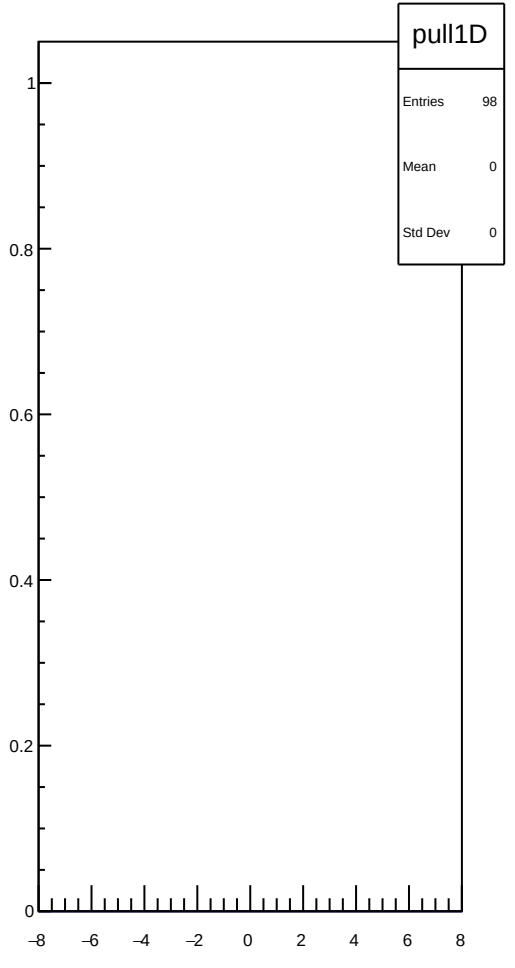

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.26e+26 / 97
p0 980.8 ± 1.01e−16
980.794
980.793
980.792
980.791
980.79
980.789
×10⁹
3000
2000
1000
0
−1000
−2000
pull
Entries 98
Mean −3.542e+09
Std Dev 0

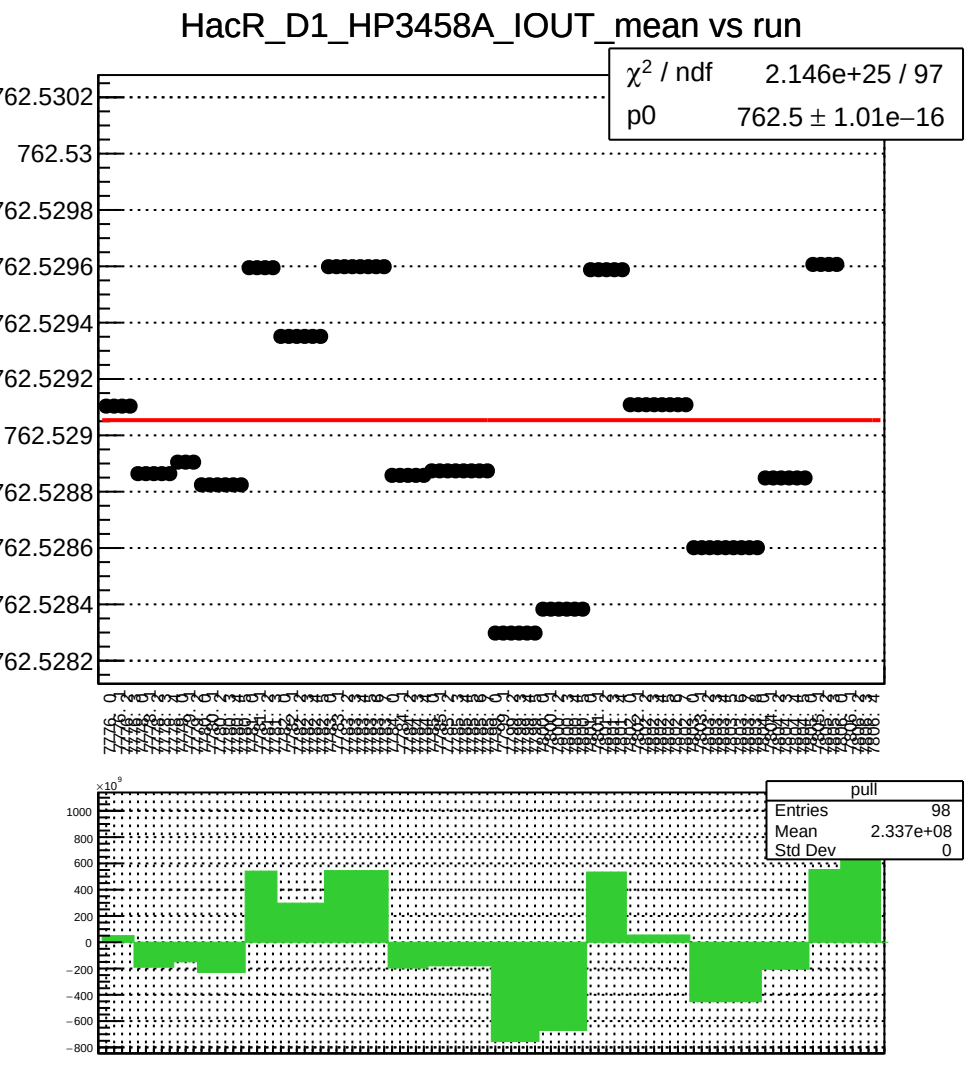

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

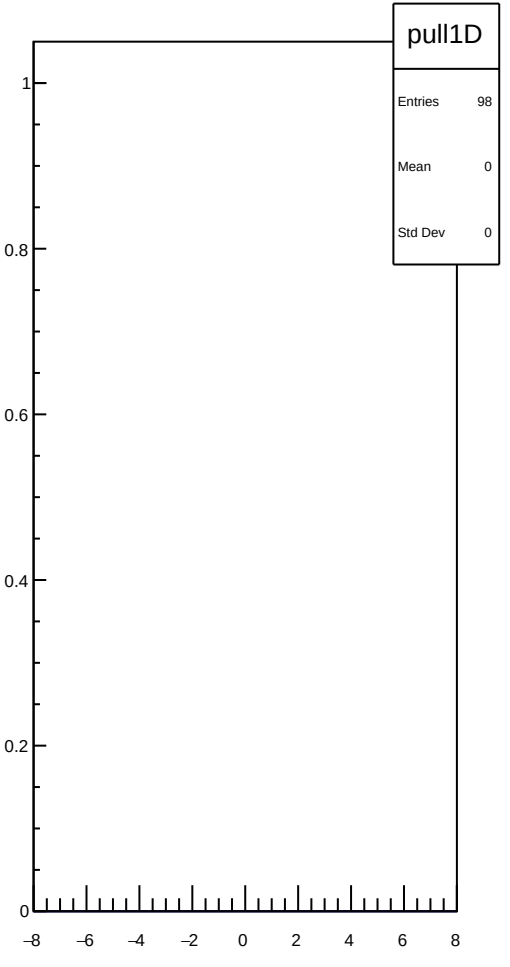

MQ172RM_mean vs run
χ² / ndf 0.0755 / 97
p0 0.009375 ± 1.01e−16
×10⁻³
pull
Entries 98
Mean 49
Std Dev 28.29

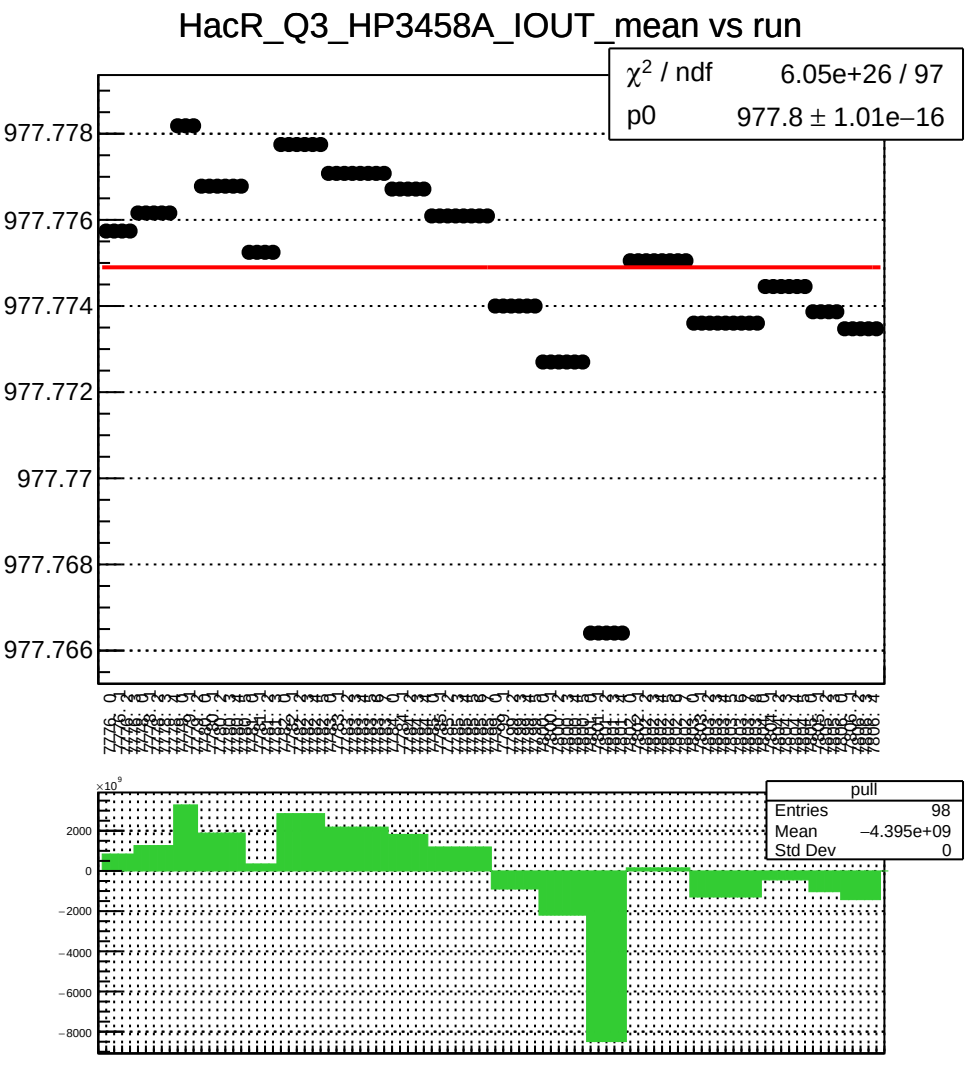

pull1D
Entries 98
Mean 0.02776
Std Dev 1.092e−09

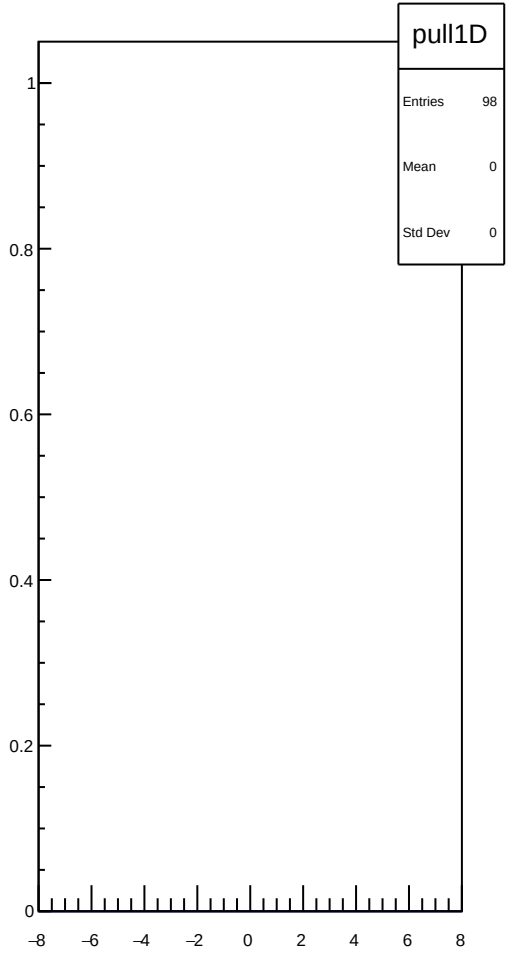

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.601e+29 / 97
p0 925 ± 1.01e−16
925.1
925.05
925
924.95
924.9
924.85
924.8
pull
Entries 98
Mean 3.591e+08
Std Dev 0
×10¹²
50
0
−50
−100
−150

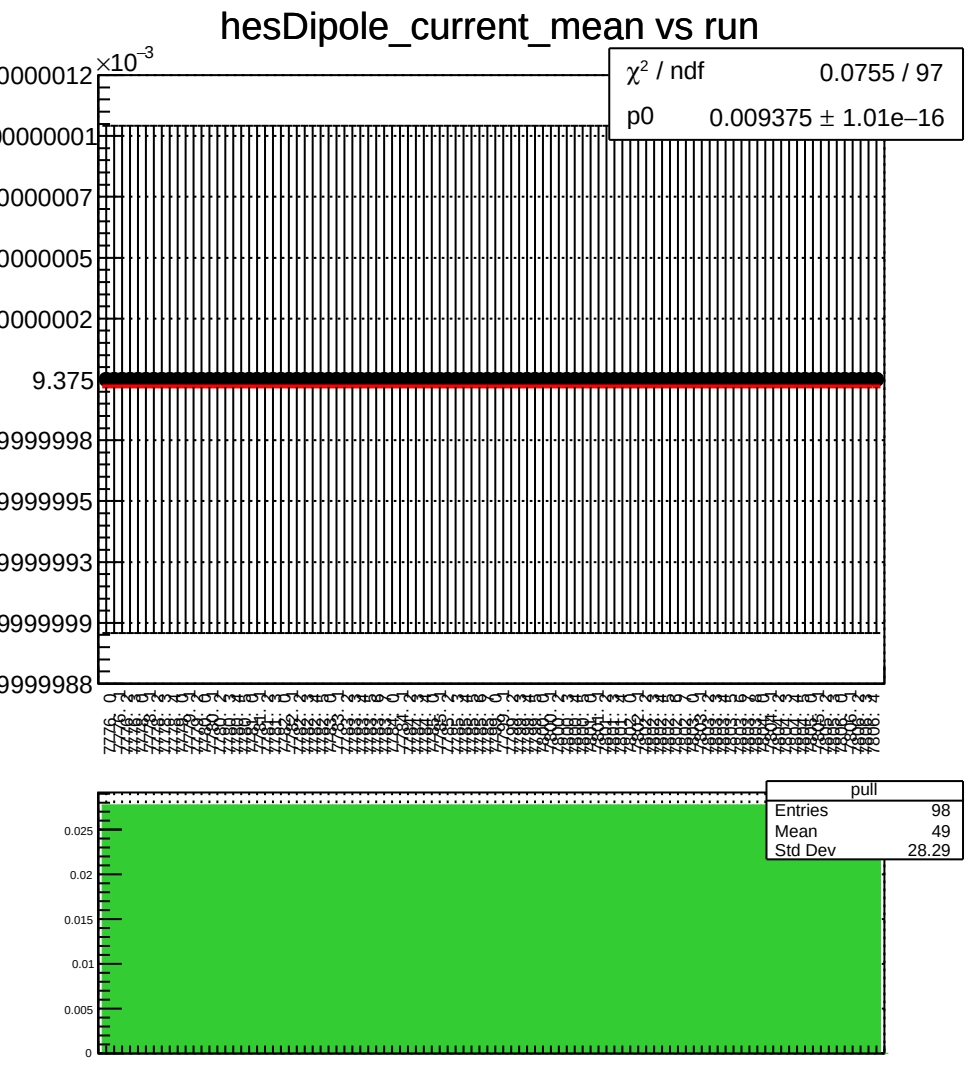

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

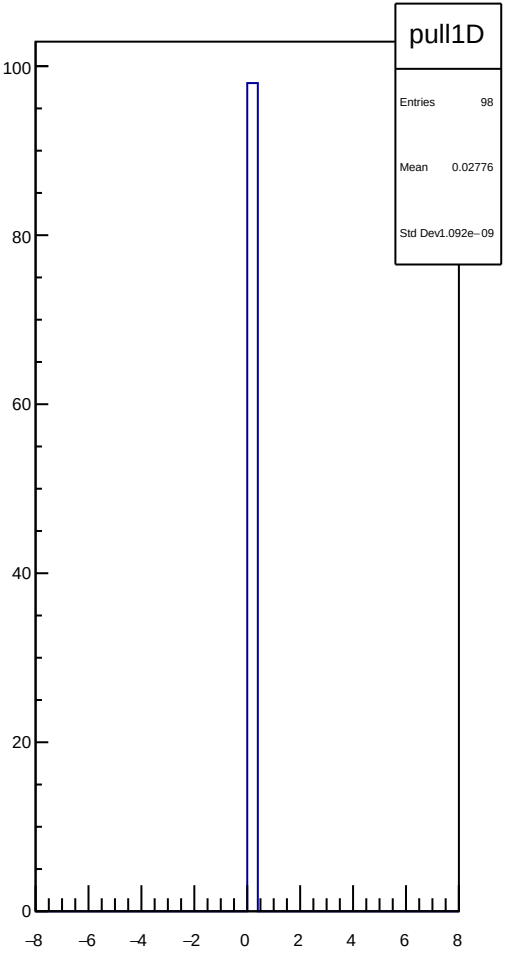

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.146e+25 / 97
p0 762.5 ± 1.01e−16
762.5302
762.53
762.5298
762.5296
762.5294
762.5292
762.529
762.5288
762.5286
762.5284
762.5282
pull
Entries 98
Mean 2.337e+08
Std Dev 0
×10⁹
1000
800
600
400
200
0
−200
−400
−600
−800

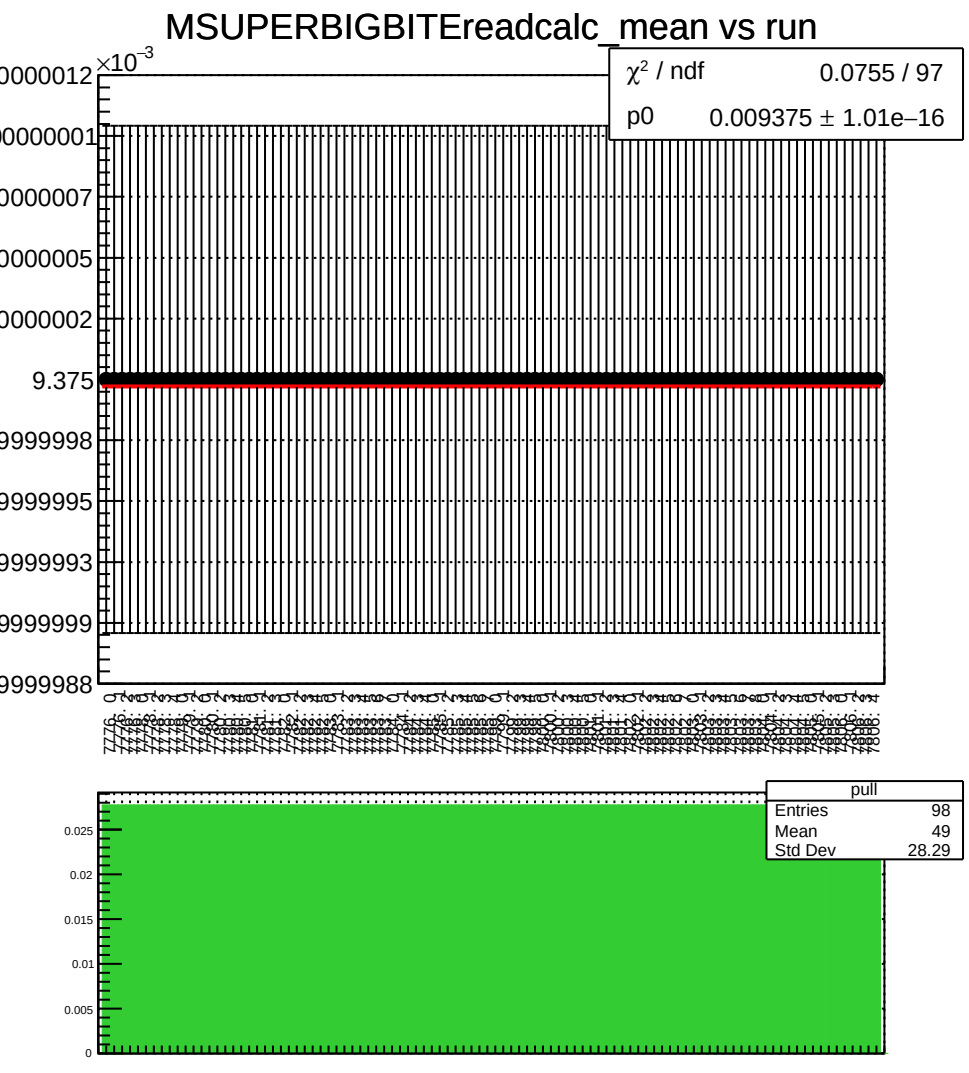

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

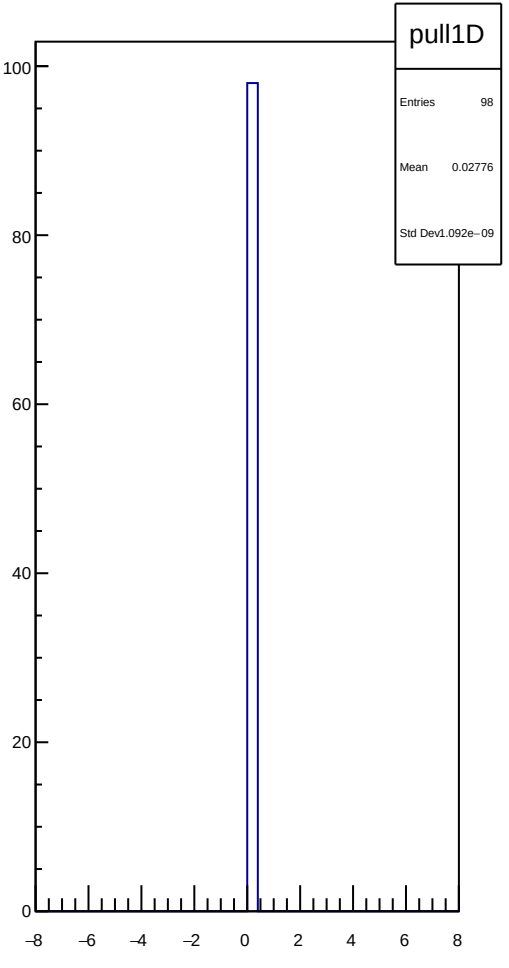

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.05e+26 / 97
p0 977.8 ± 1.01e−16
977.778
977.776
977.774
977.772
977.77
977.768
977.766
×10⁹
2000
0
−2000
−4000
−6000
−8000
pull
Entries 98
Mean −4.395e+09
Std Dev 0

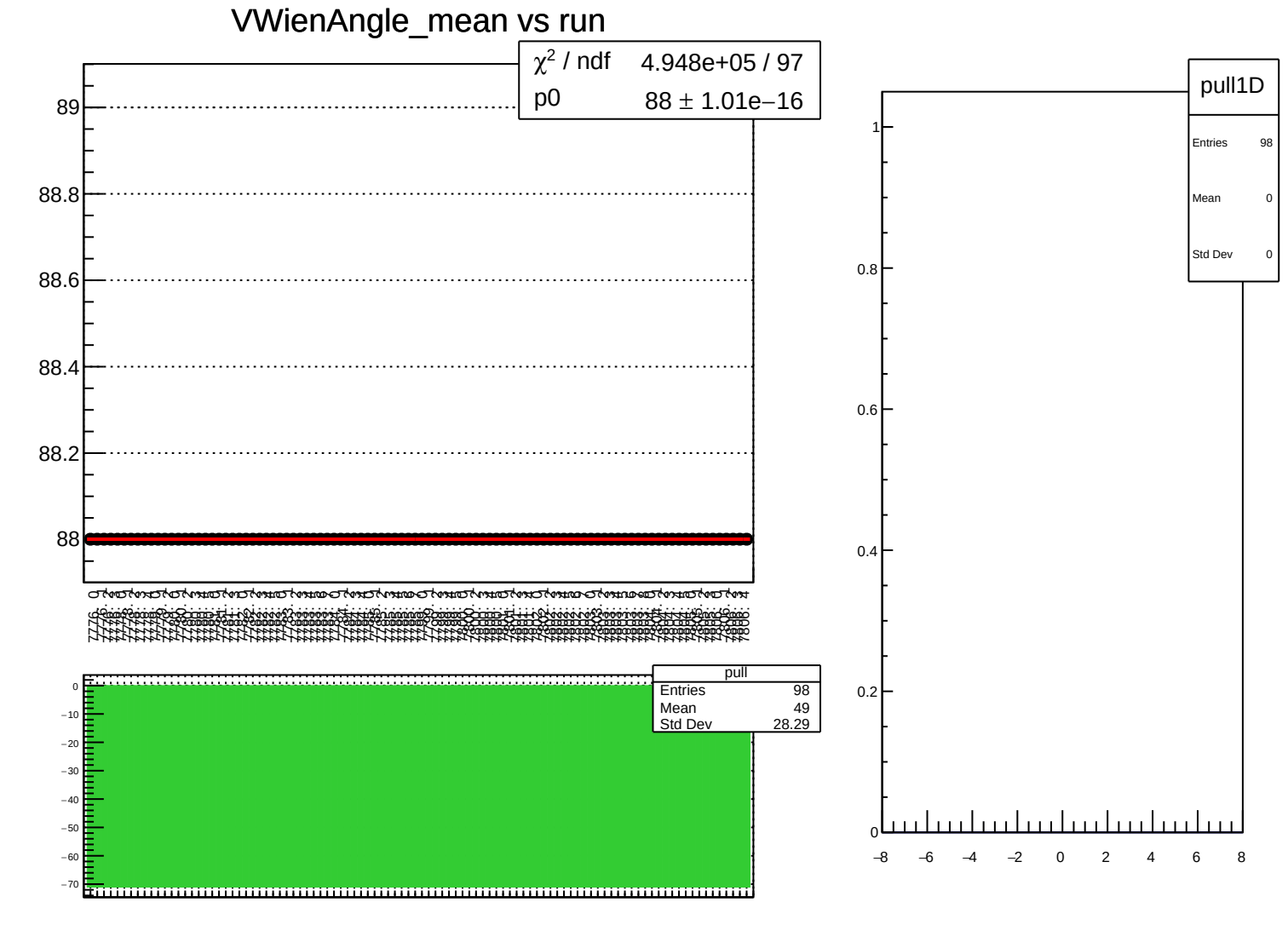

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

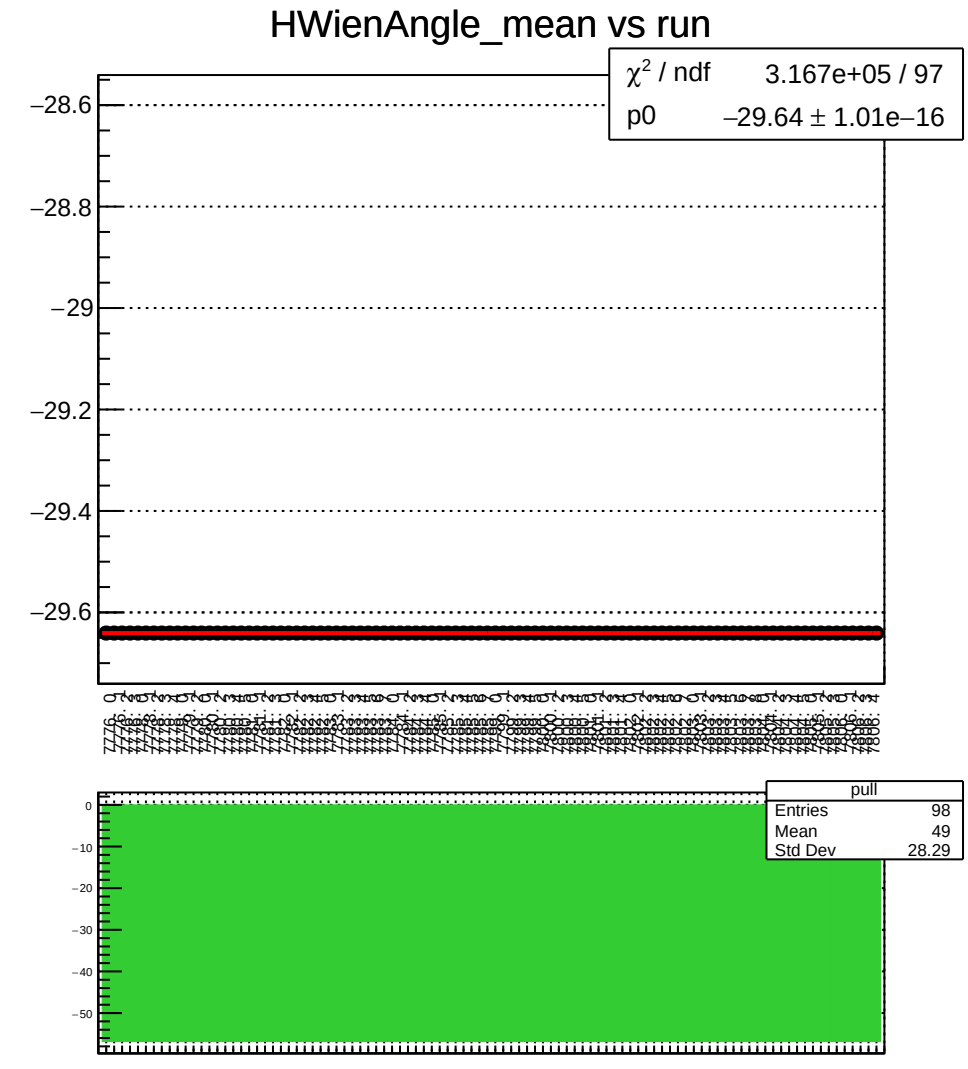

hesDipole_current_mean vs run
χ² / ndf 0.0755 / 97
p0 0.009375 ± 1.01e−16
×10⁻³
9.375
pull
Entries 98
Mean 49
Std Dev 28.29

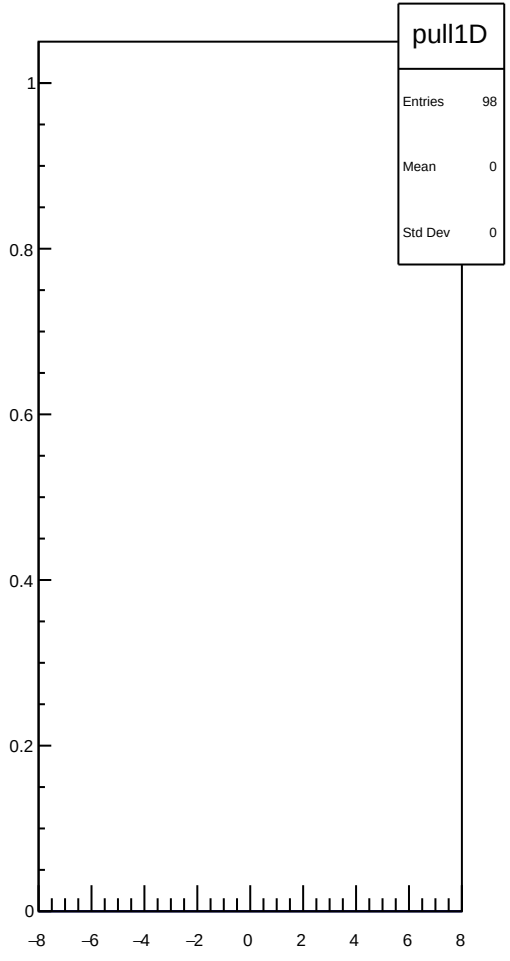

pull1D
Entries 98
Mean 0.02776
Std Dev1.092e−09

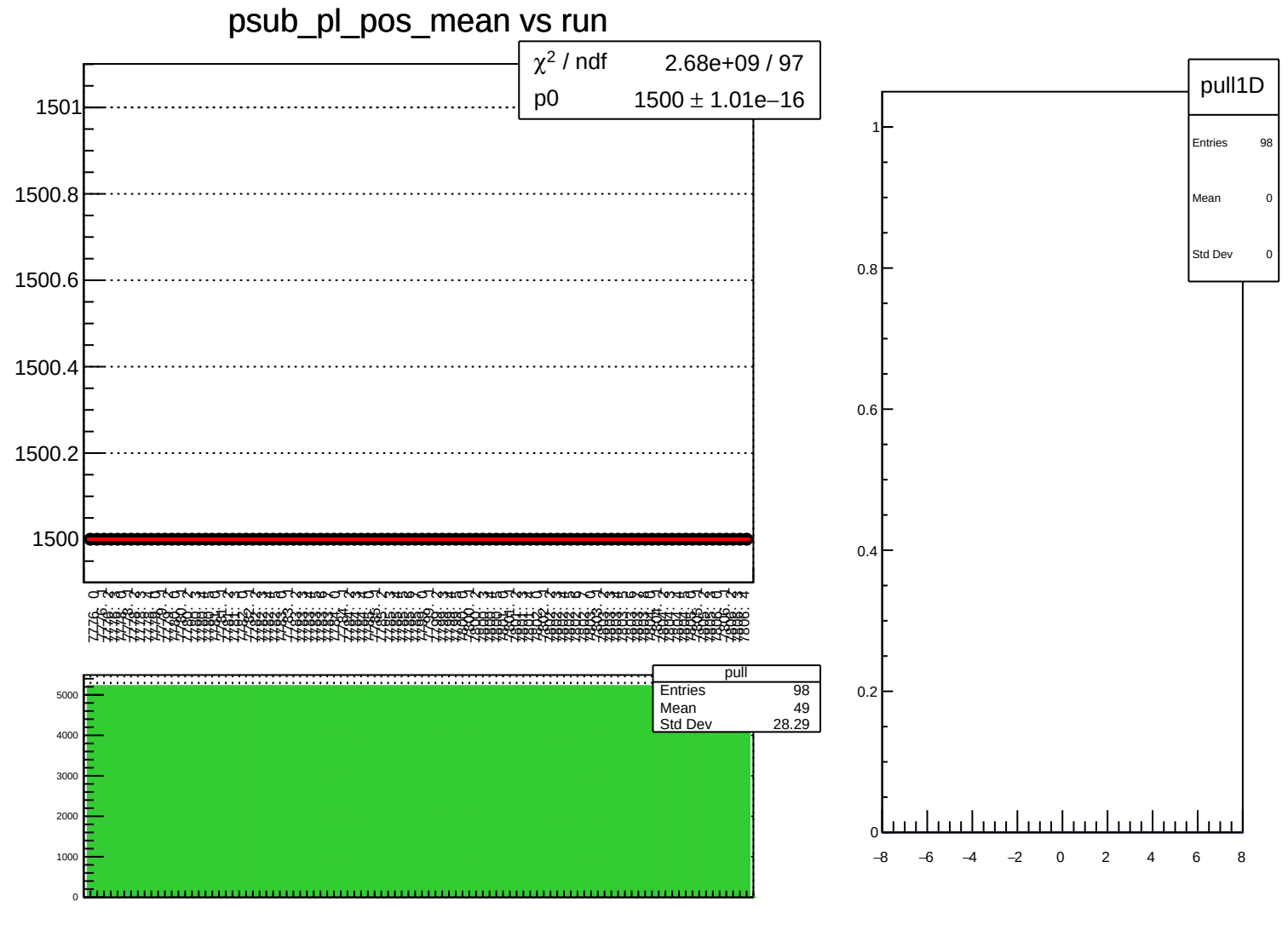

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.0755 / 97
p0 0.009375 ± 1.01e−16
pull
Entries 98
Mean 49
Std Dev 28.29

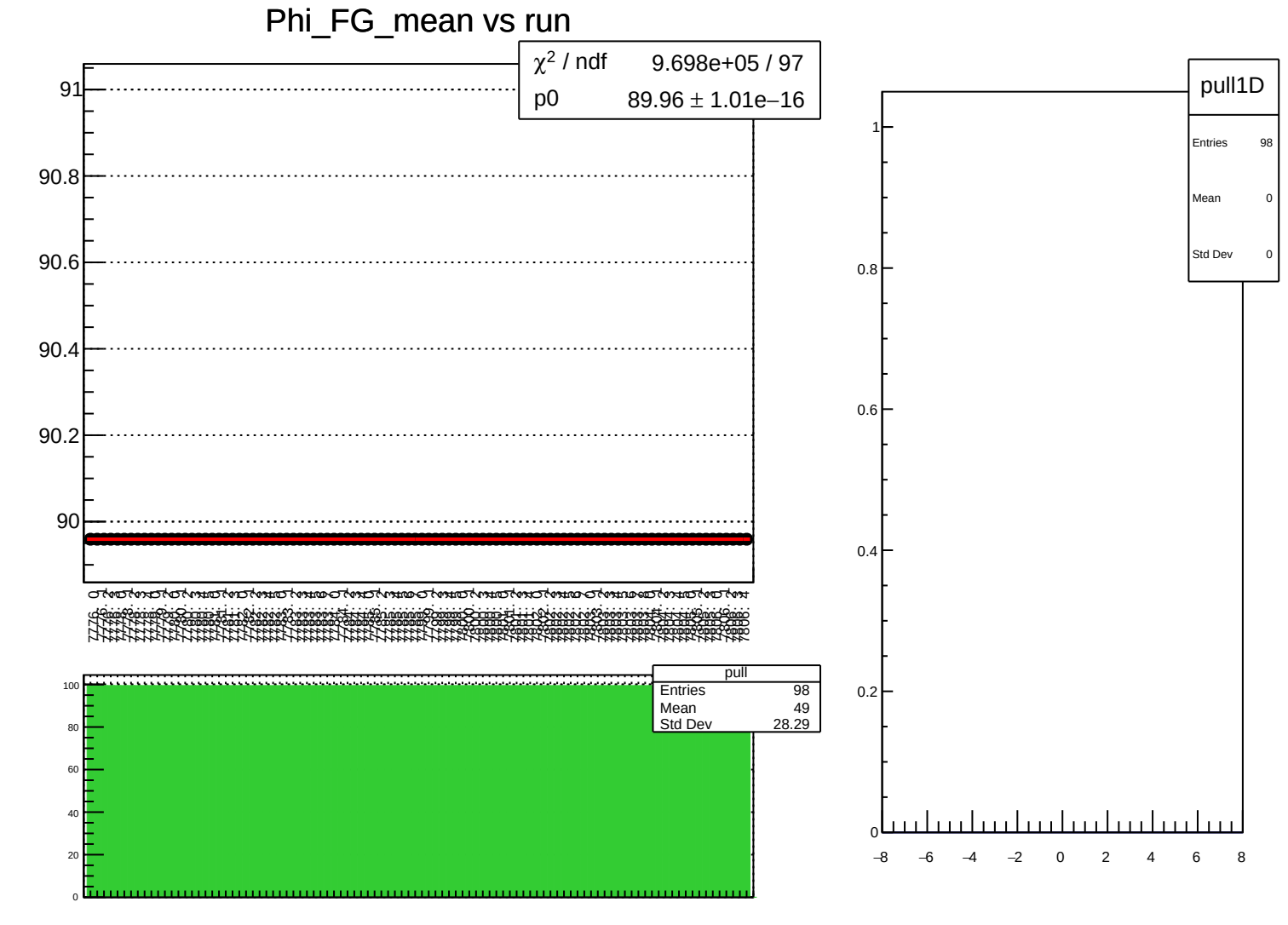

pull1D
Entries 98
Mean 0.02776
Std Dev 1.092e−09

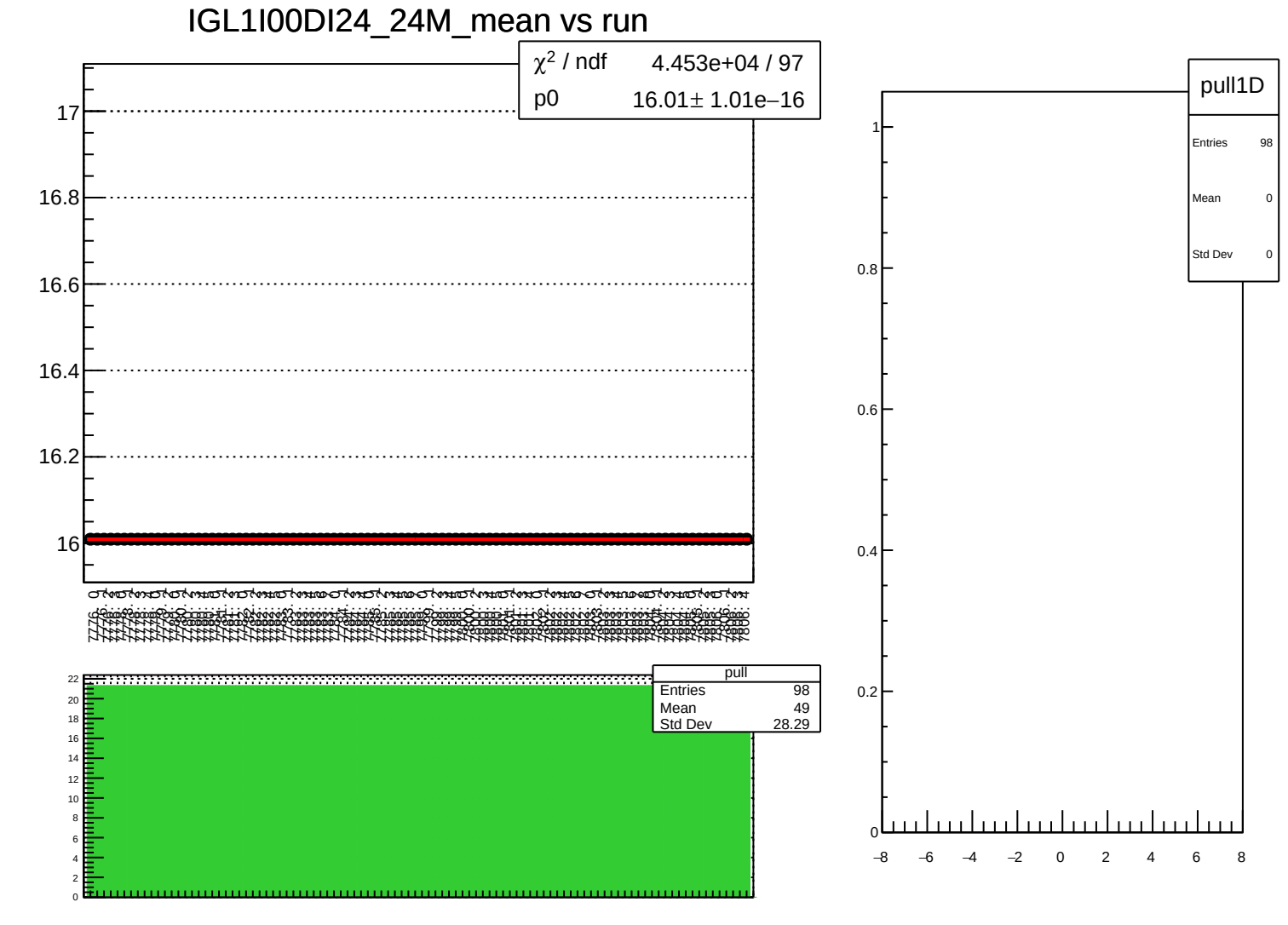

VWienAngle_mean vs run
χ² / ndf 4.948e+05 / 97
p0 88 ± 1.01e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 98
Mean 49
Std Dev 28.29
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

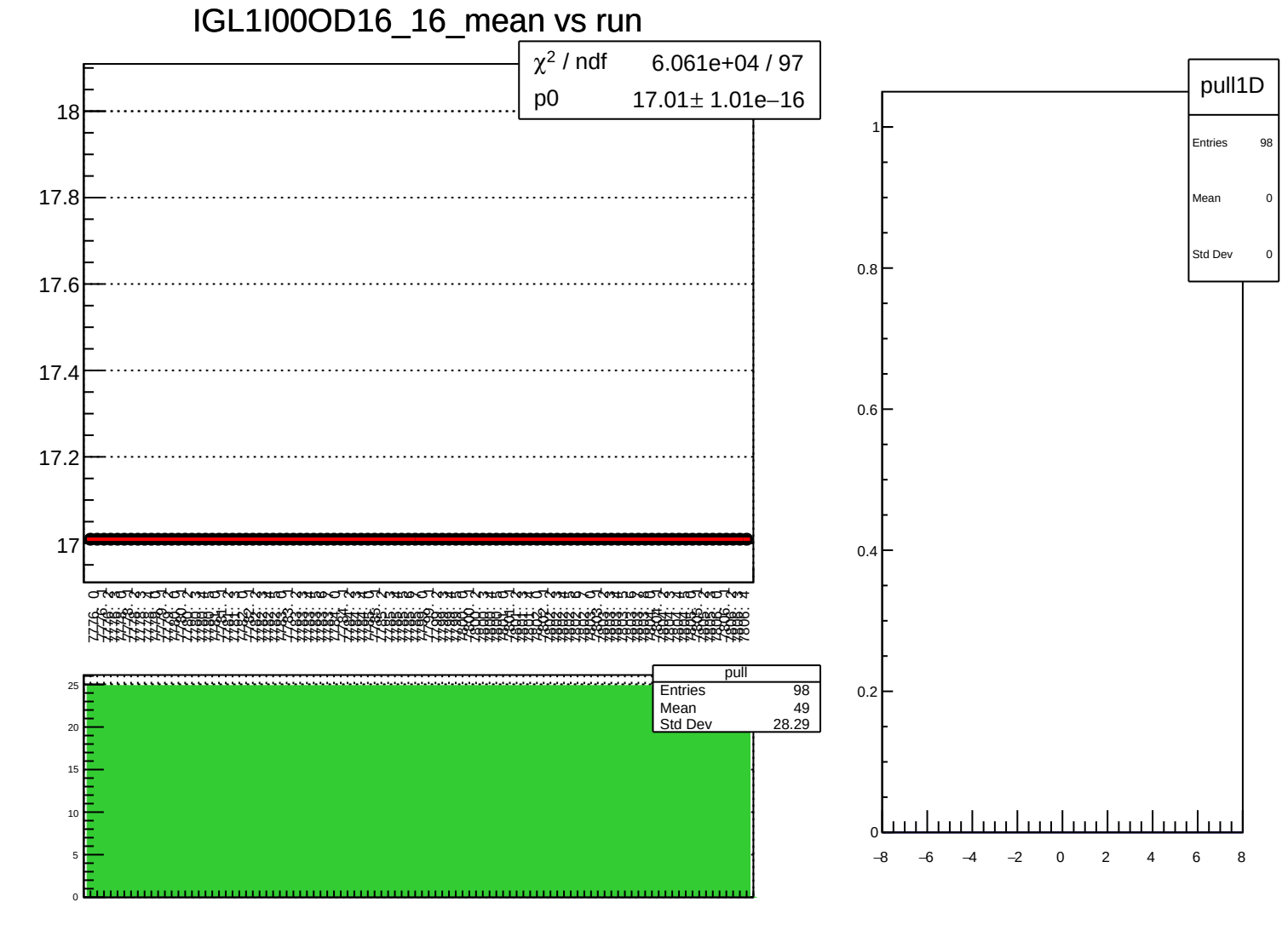

HWienAngle_mean vs run
χ² / ndf 3.167e+05 / 97
p0 −29.64 ± 1.01e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 98
Mean 49
Std Dev 28.29
0
−10
−20
−30
−40
−50

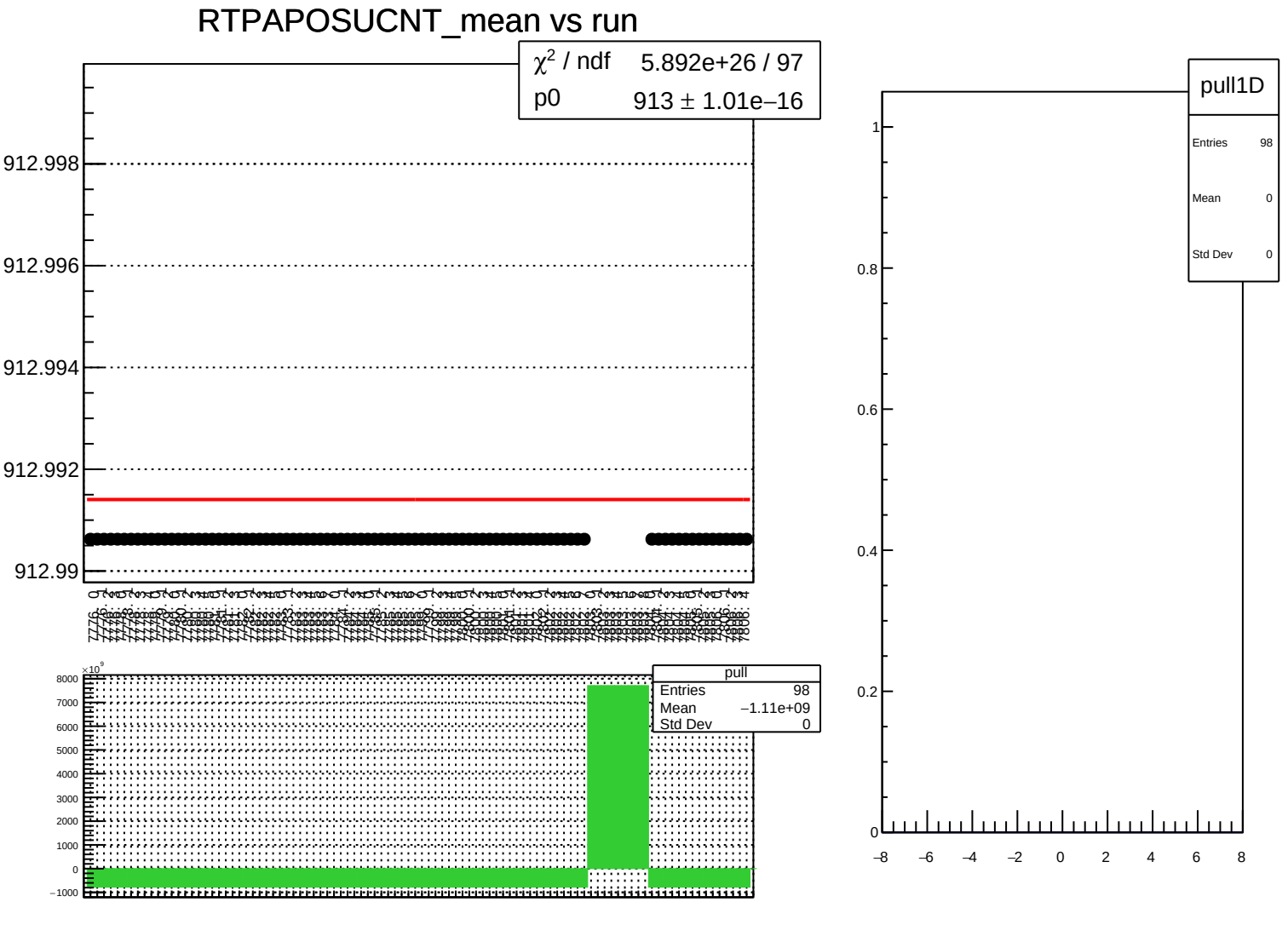

pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

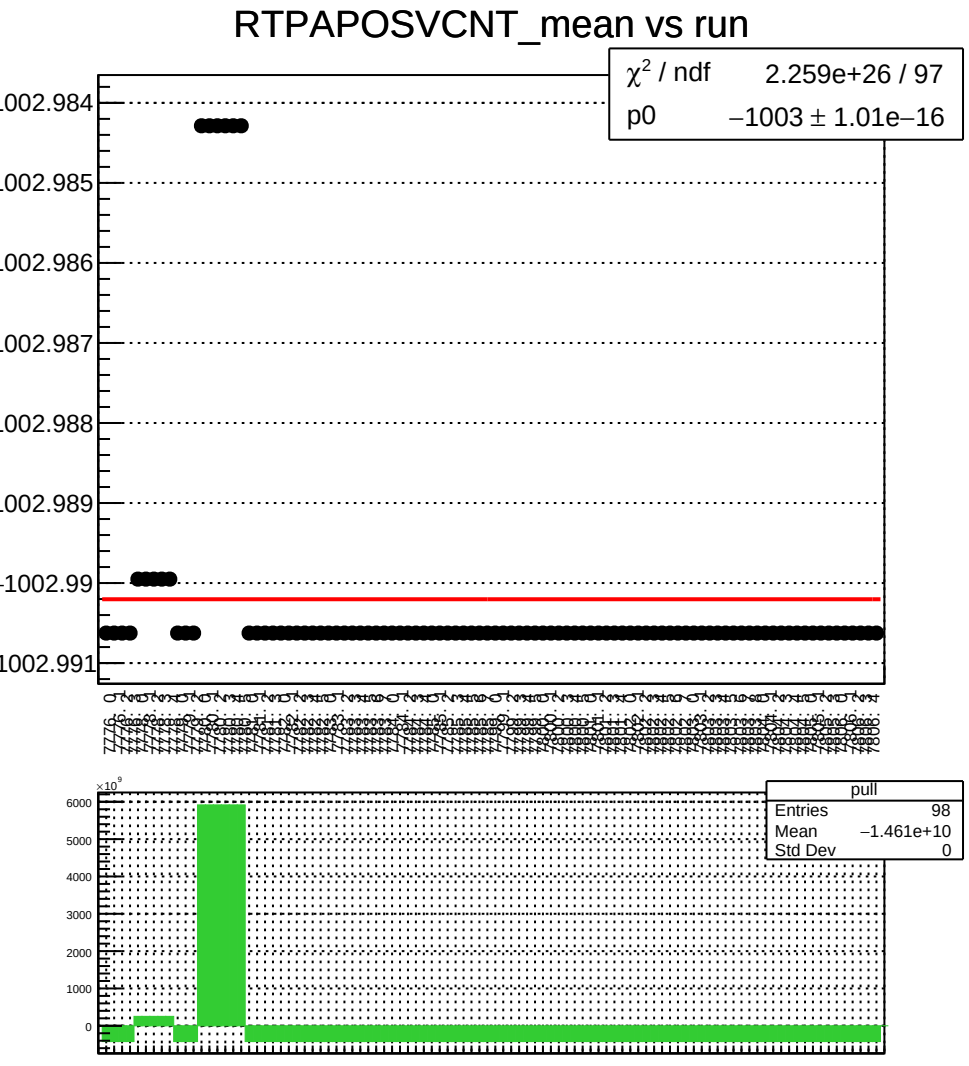

psub_pl_pos_mean vs run
χ² / ndf 2.68e+09 / 97
p0 1500 ± 1.01e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 98
Mean 49
Std Dev 28.29
5000
4000
3000
2000
1000
0
pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

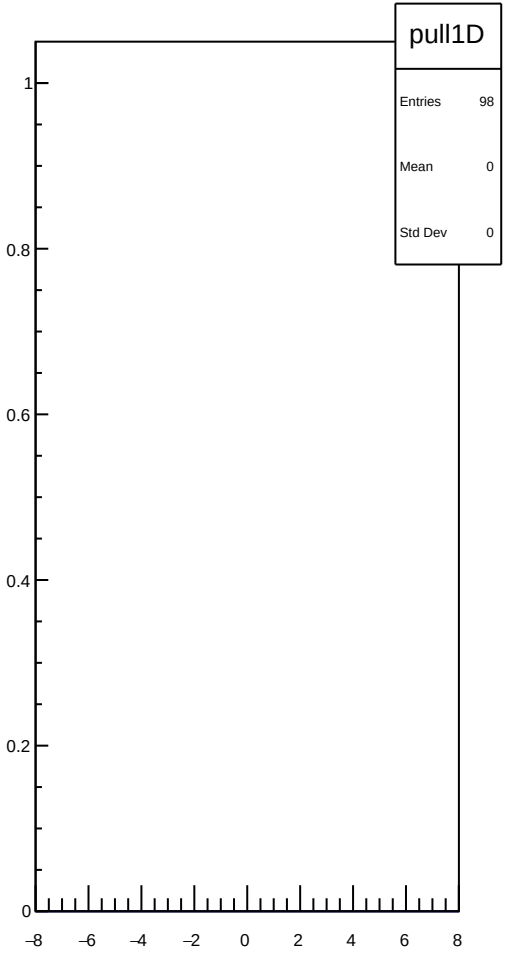

Phi_FG_mean vs run
χ² / ndf 9.698e+05 / 97
p0 89.96 ± 1.01e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 98
Mean 49
Std Dev 28.29
100
80
60
40
20
0
pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

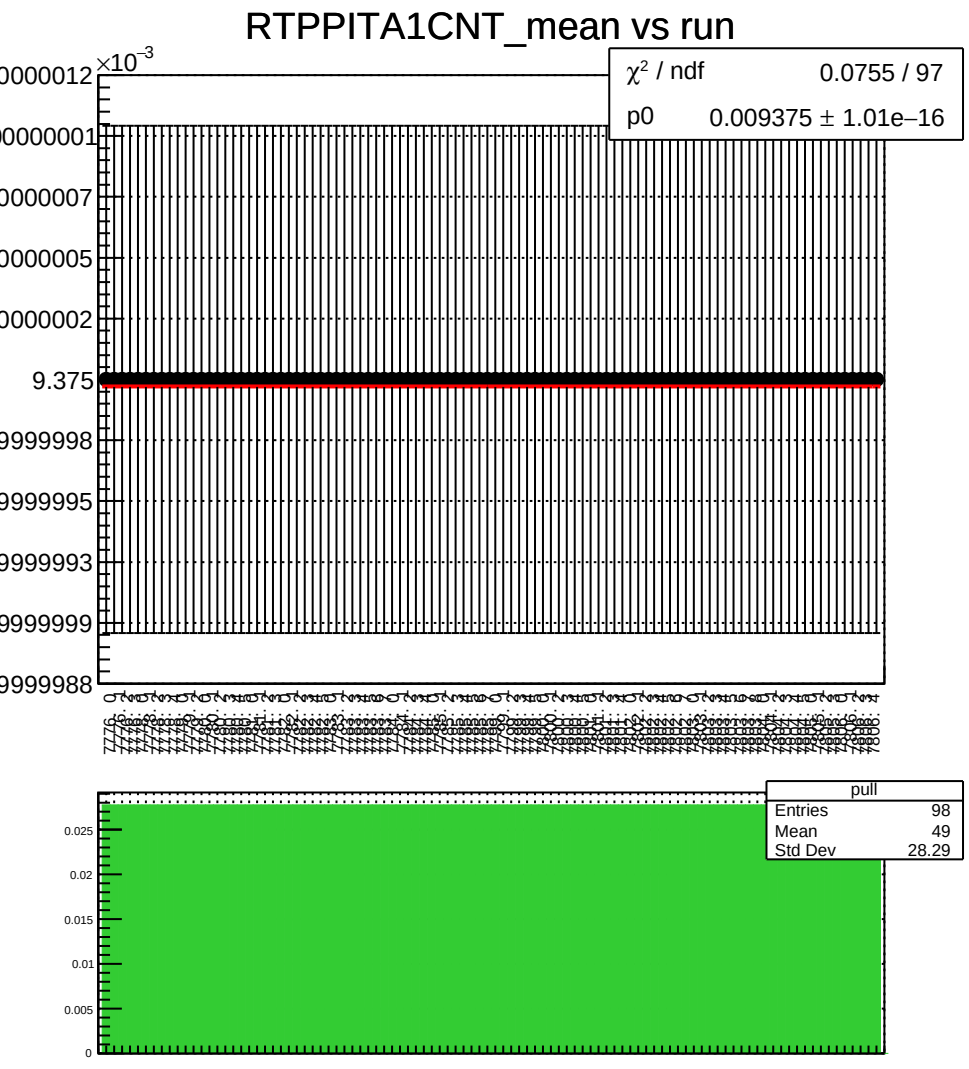

IGL1I00DI24_24M_mean vs run
χ² / ndf 4.453e+04 / 97
p0 16.01± 1.01e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 98
Mean 49
Std Dev 28.29
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

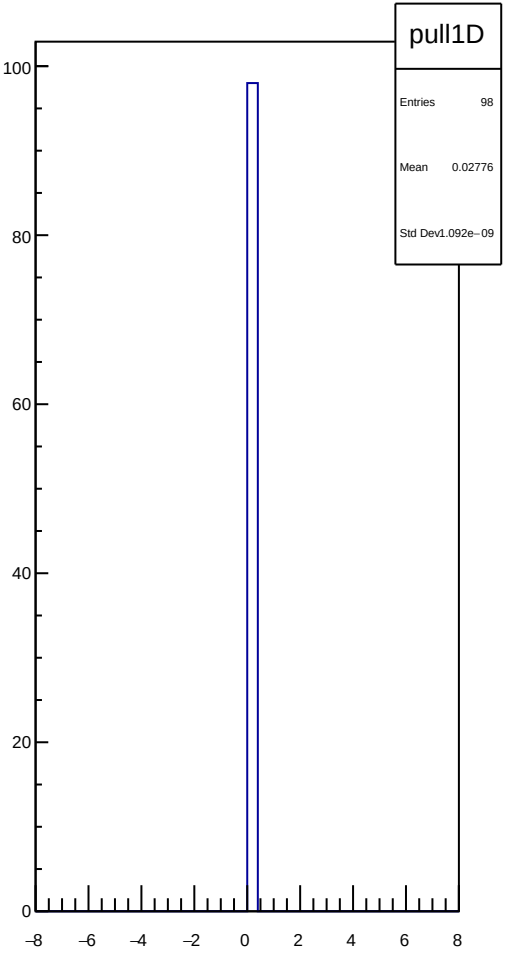

IGL1I00OD16_16_mean vs run
χ² / ndf 6.061e+04 / 97
p0 17.01± 1.01e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 98
Mean 49
Std Dev 28.29
25
20
15
10
5
0
pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

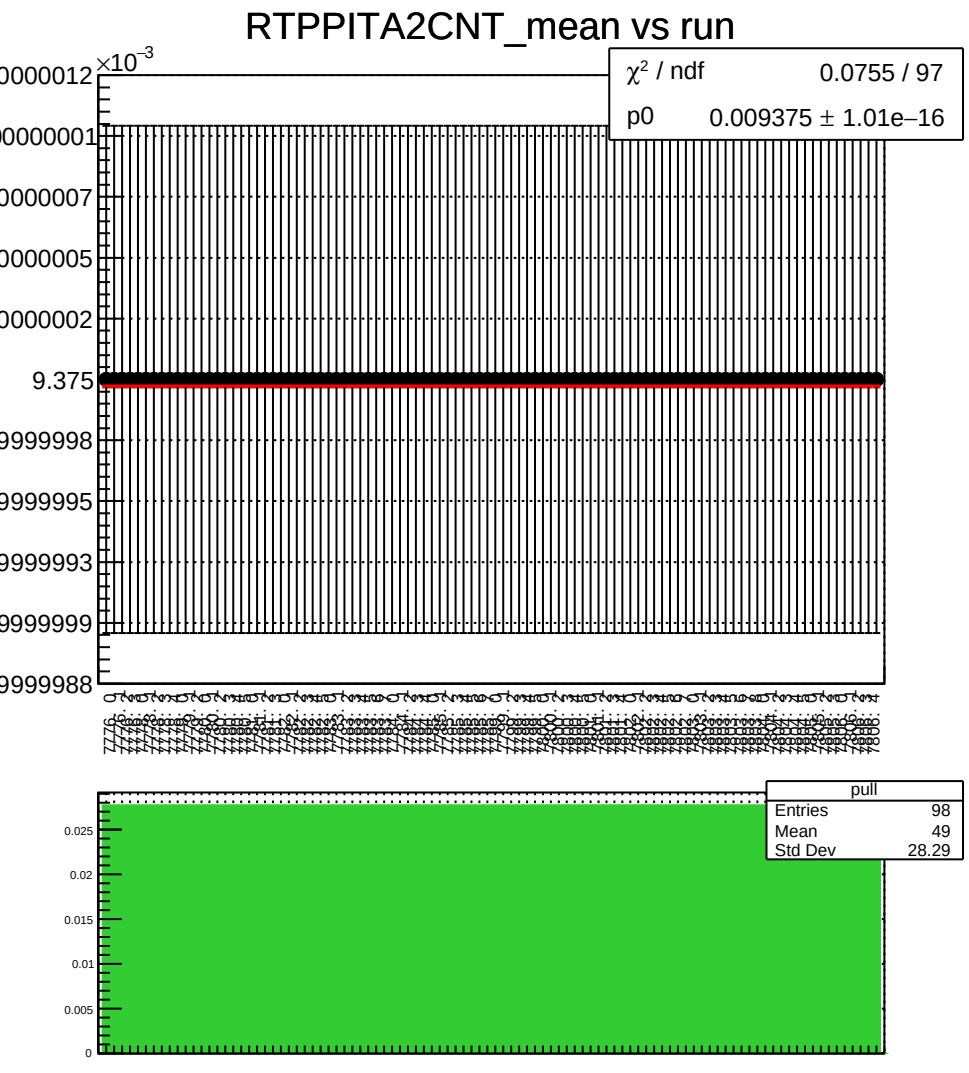

RTPAPOSUCNT_mean vs run
χ² / ndf 5.892e+26 / 97
p0 913 ± 1.01e−16
912.998
912.996
912.994
912.992
912.99
pull
Entries 98
Mean −1.11e+09
Std Dev 0
×10⁹
8000
7000
6000
5000
4000
3000
2000
1000
0
−1000
pull1D
Entries 98
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

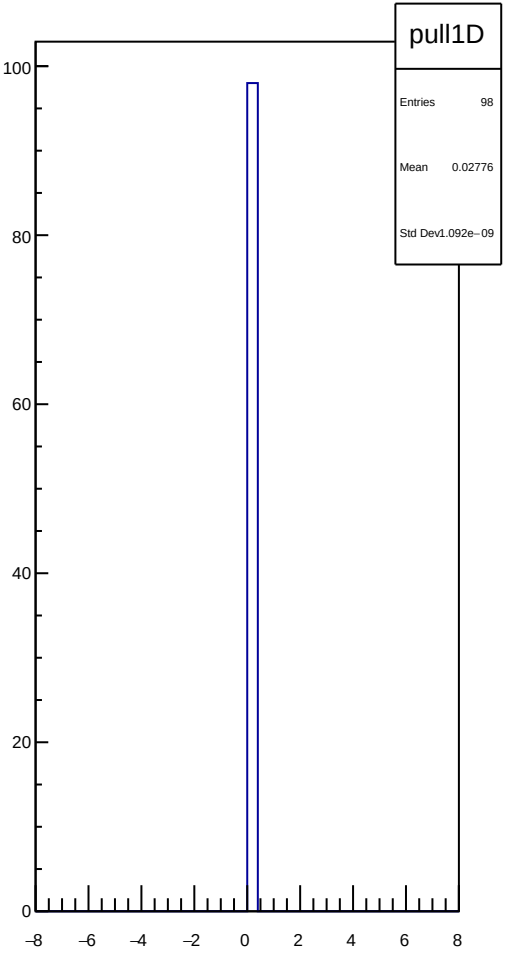

RTPAPOSVCNT_mean vs run
χ² / ndf 2.259e+26 / 97
p0 −1003 ± 1.01e−16
1002.984
1002.985
1002.986
1002.987
1002.988
1002.989
1002.99
1002.991
×10⁹
6000
5000
4000
3000
2000
1000
0
pull
Entries 98
Mean −1.461e+10
Std Dev 0


pull1D
Entries 98
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 0.0755 / 97
p0 0.009375 ± 1.01e−16
×10⁻³
pull
Entries 98
Mean 49
Std Dev 28.29


pull1D
Entries 98
Mean 0.02776
Std Dev 1.092e−09


RTPPITA2CNT_mean vs run
χ² / ndf 0.0755 / 97
p0 0.009375 ± 1.01e−16
×10⁻³
pull
Entries 98
Mean 49
Std Dev 28.29


pull1D
Entries 98
Mean 0.02776
Std Dev 1.092e−09