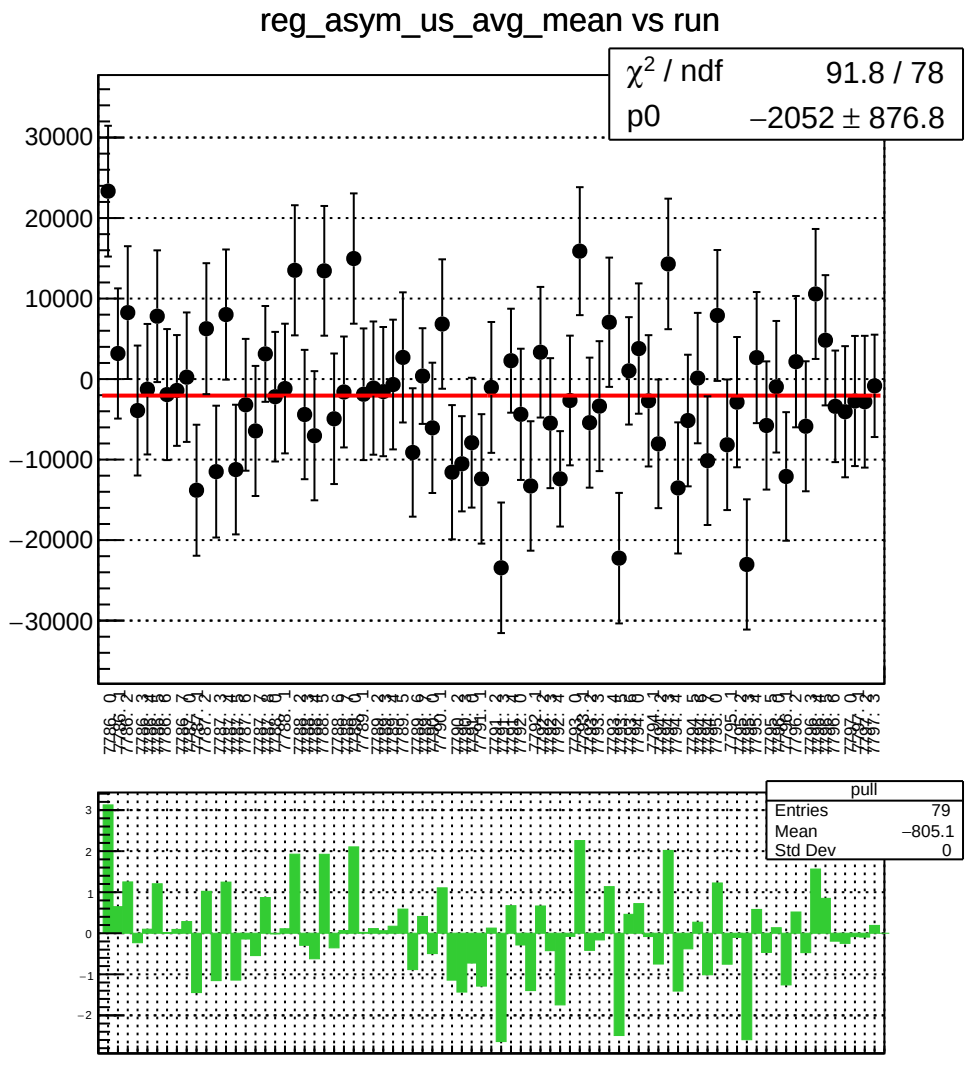
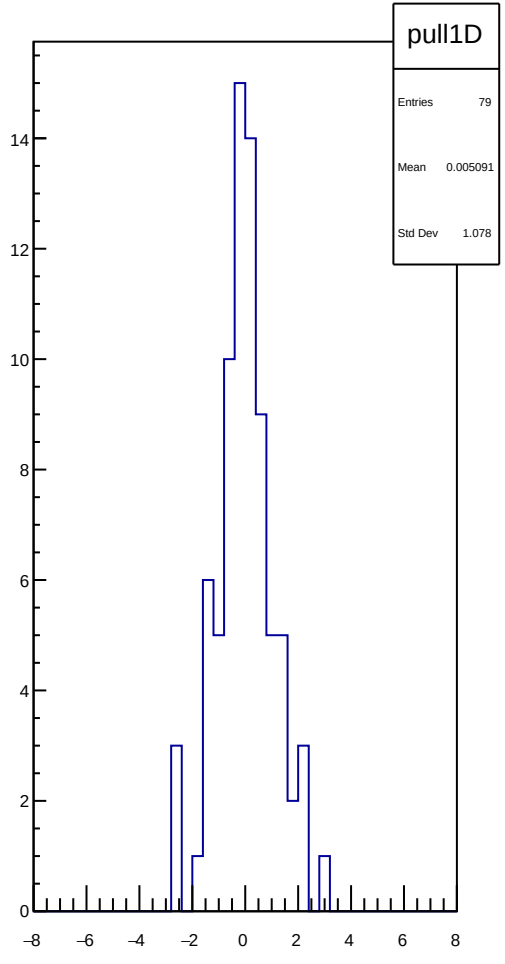
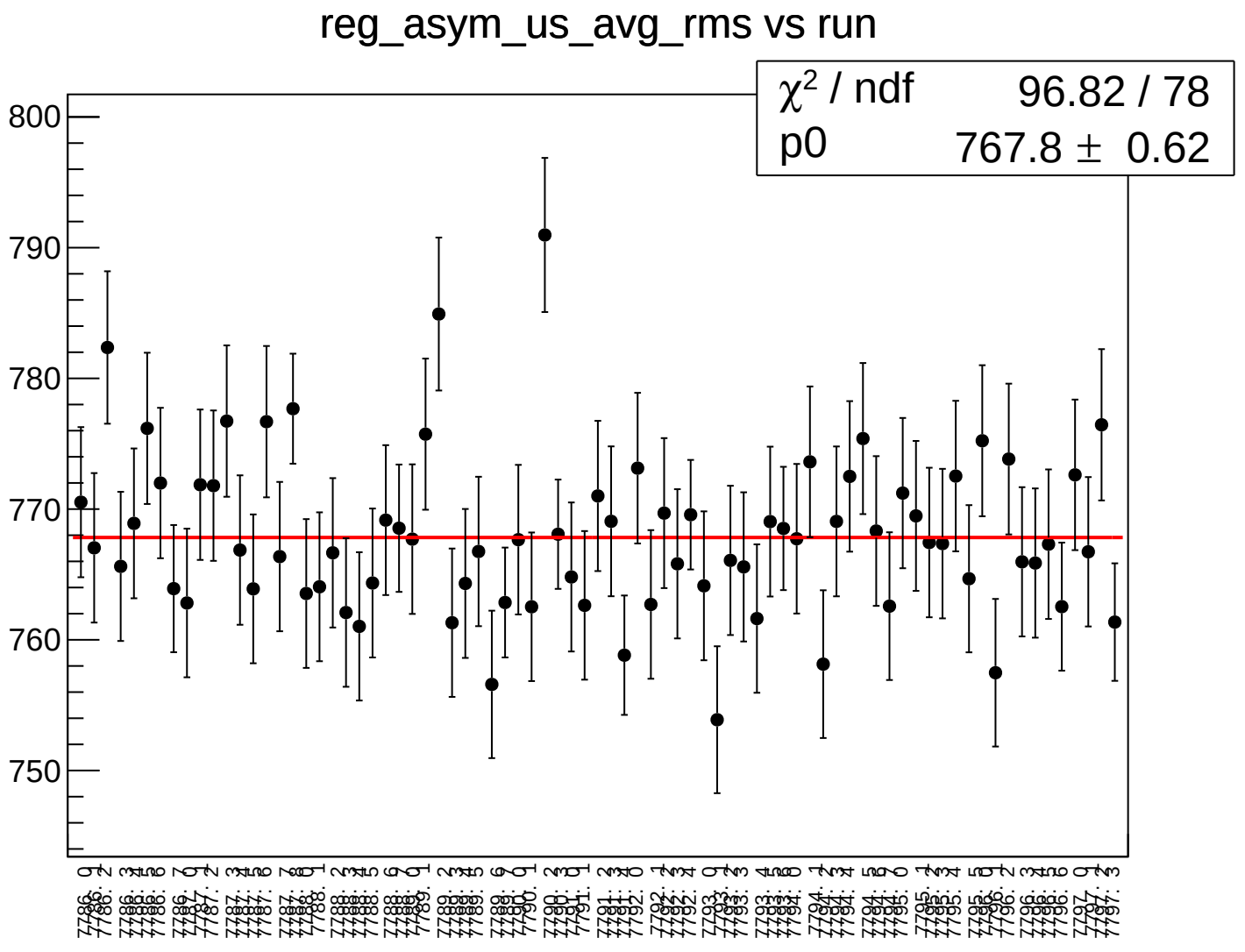
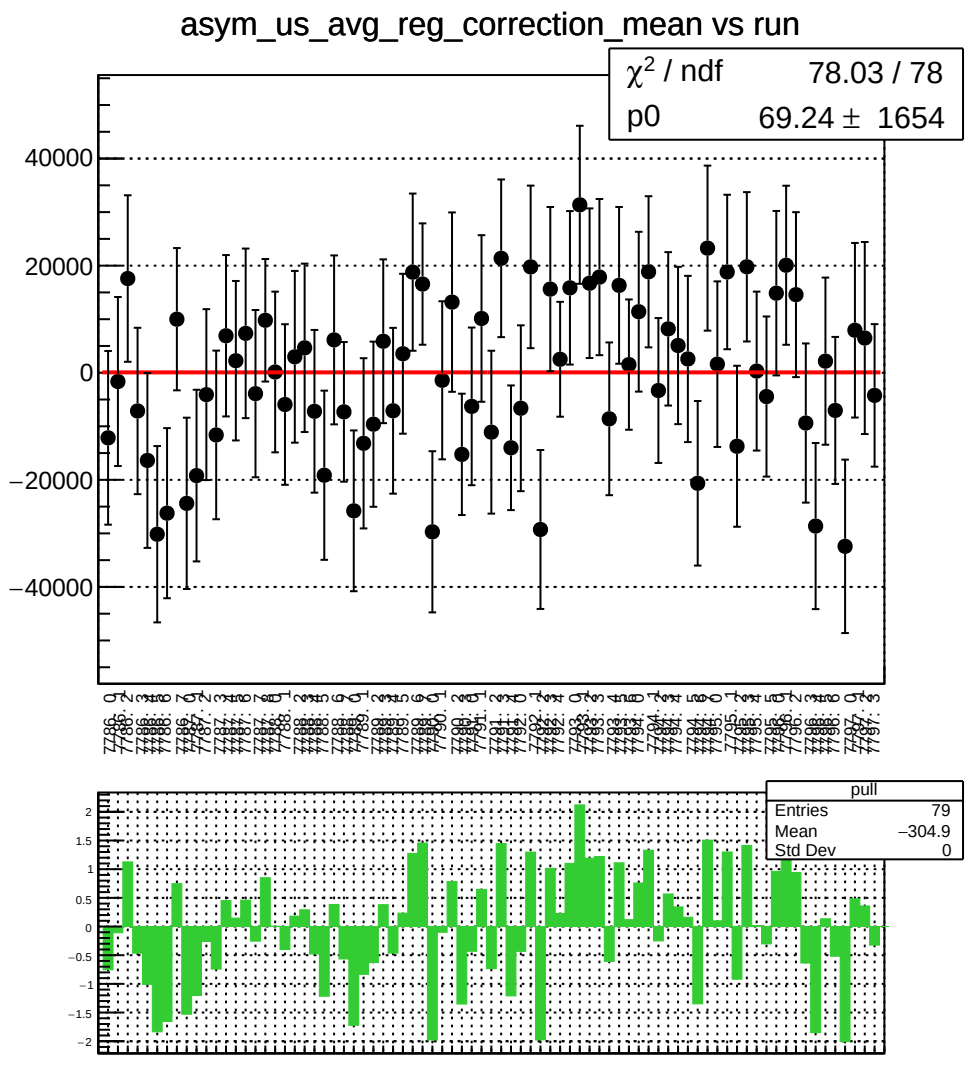
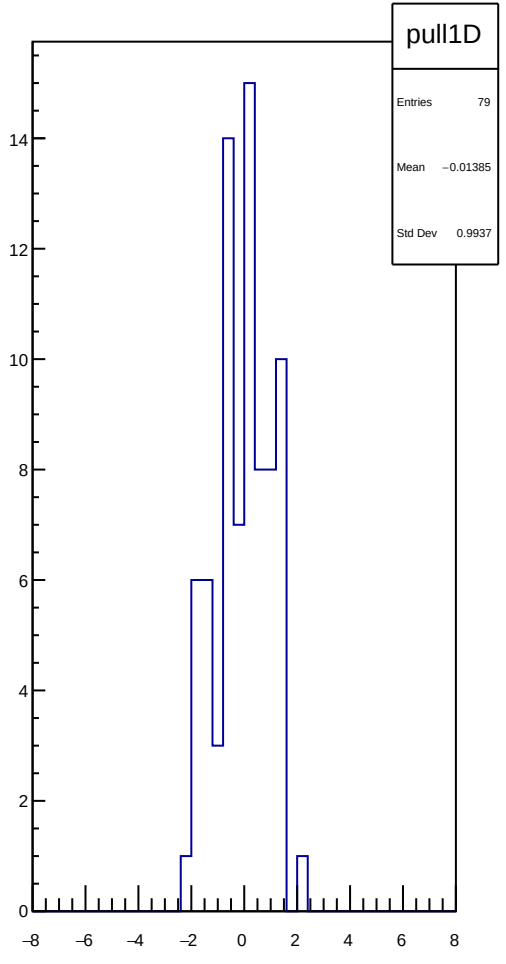
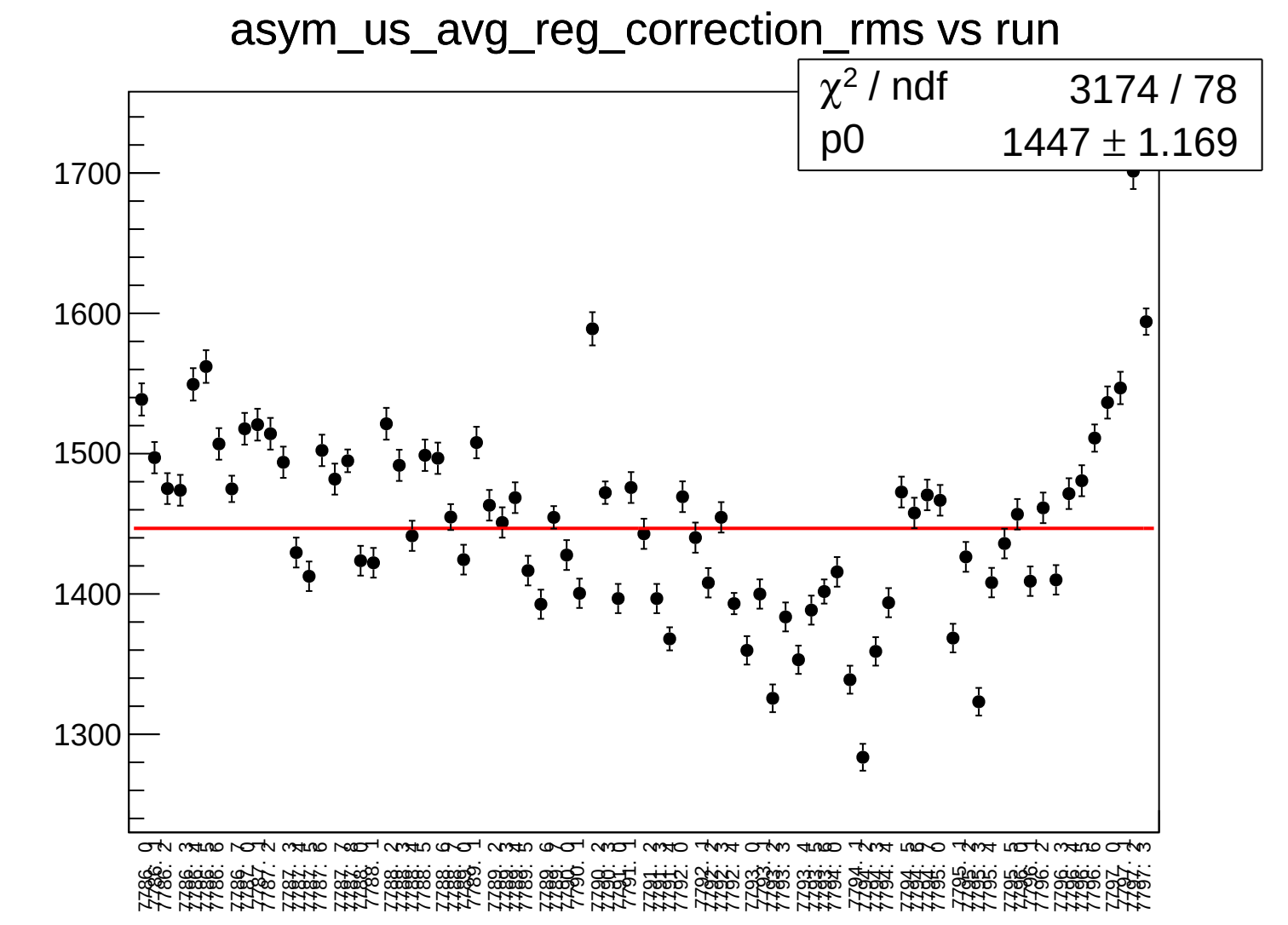

reg_asym_us_avg_mean vs run
χ² / ndf 91.8 / 78
p0 −2052 ± 876.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −805.1
Std Dev 0
3
2
1
0
−1
−2

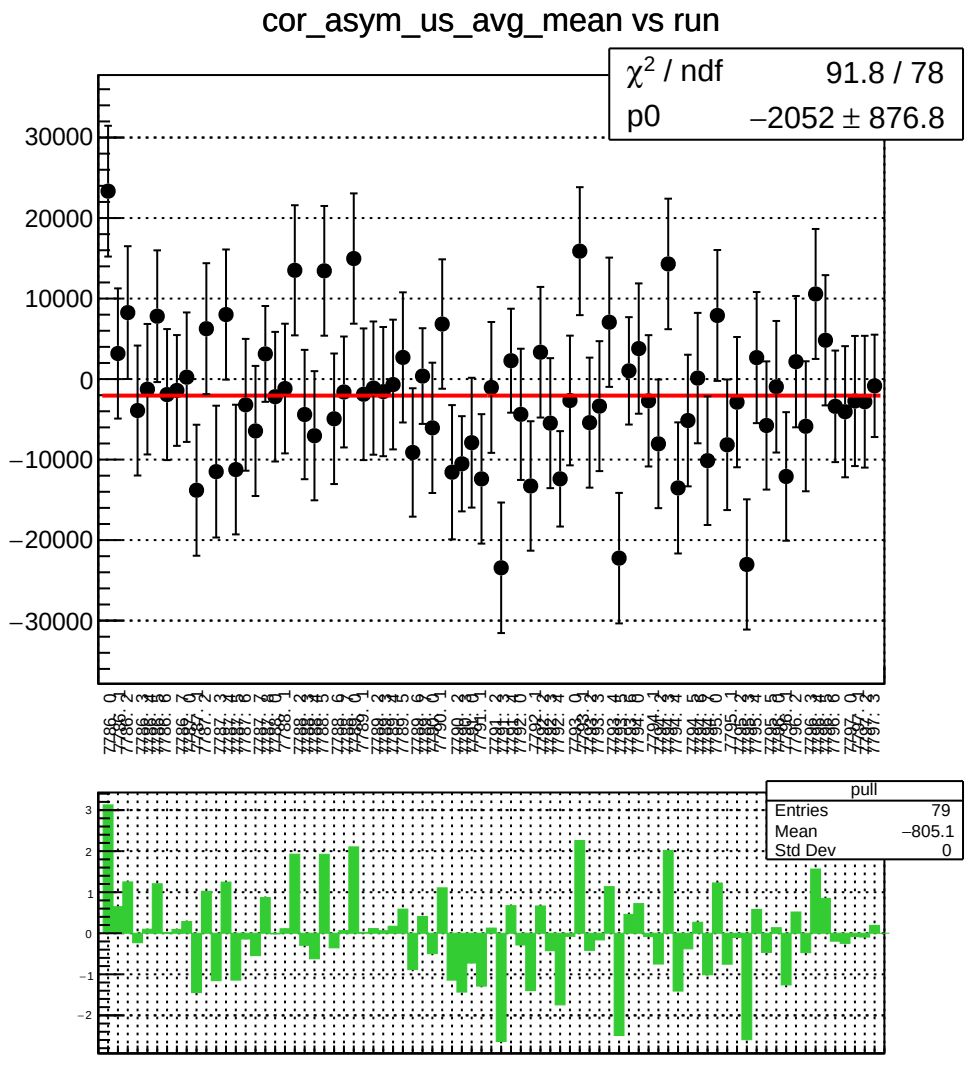

pull1D
Entries 79
Mean 0.005091
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

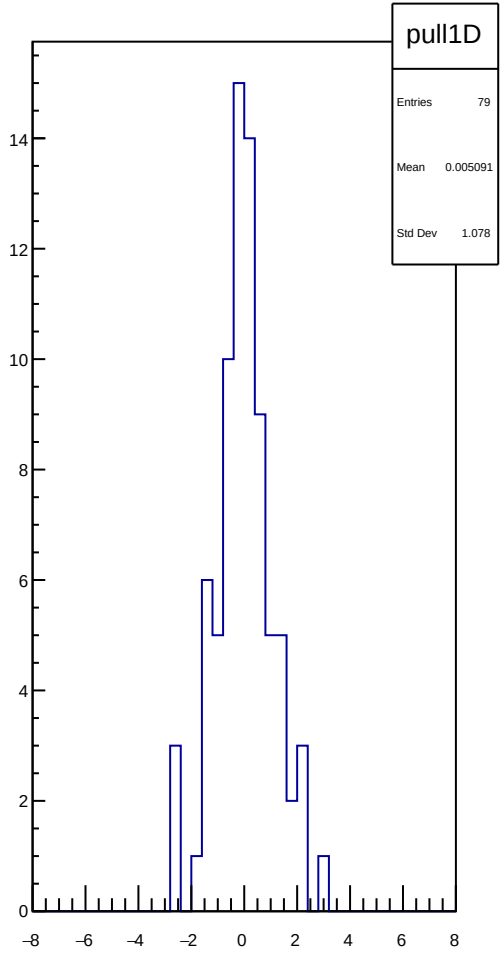

reg_asym_us_avg_rms vs run
χ^2 / ndf 96.82 / 78
p0 767.8 ± 0.62
800
790
780
770
760
750

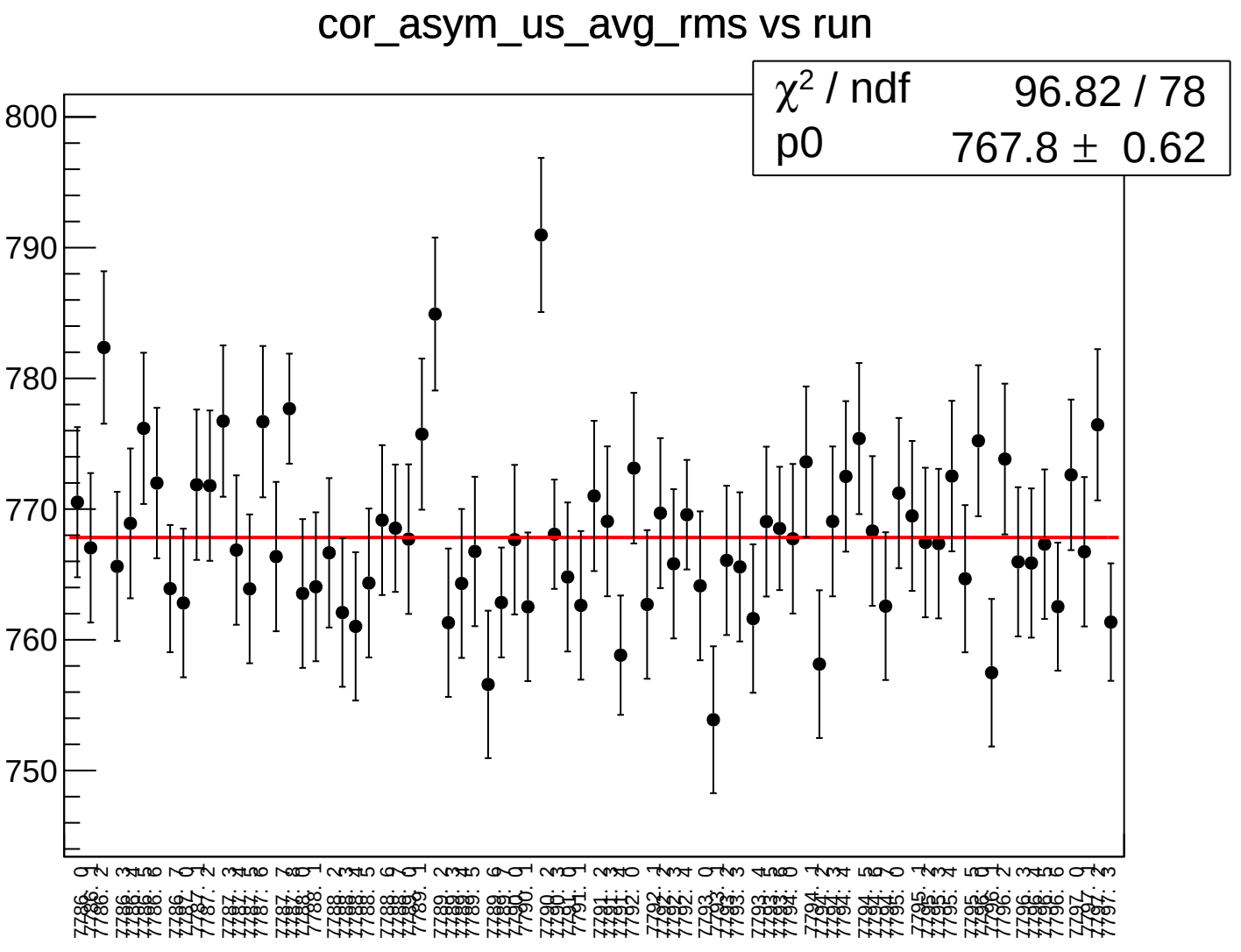

asym_us_avg_reg_correction_mean vs run
χ² / ndf 78.03 / 78
p0 69.24 ± 1654
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −304.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

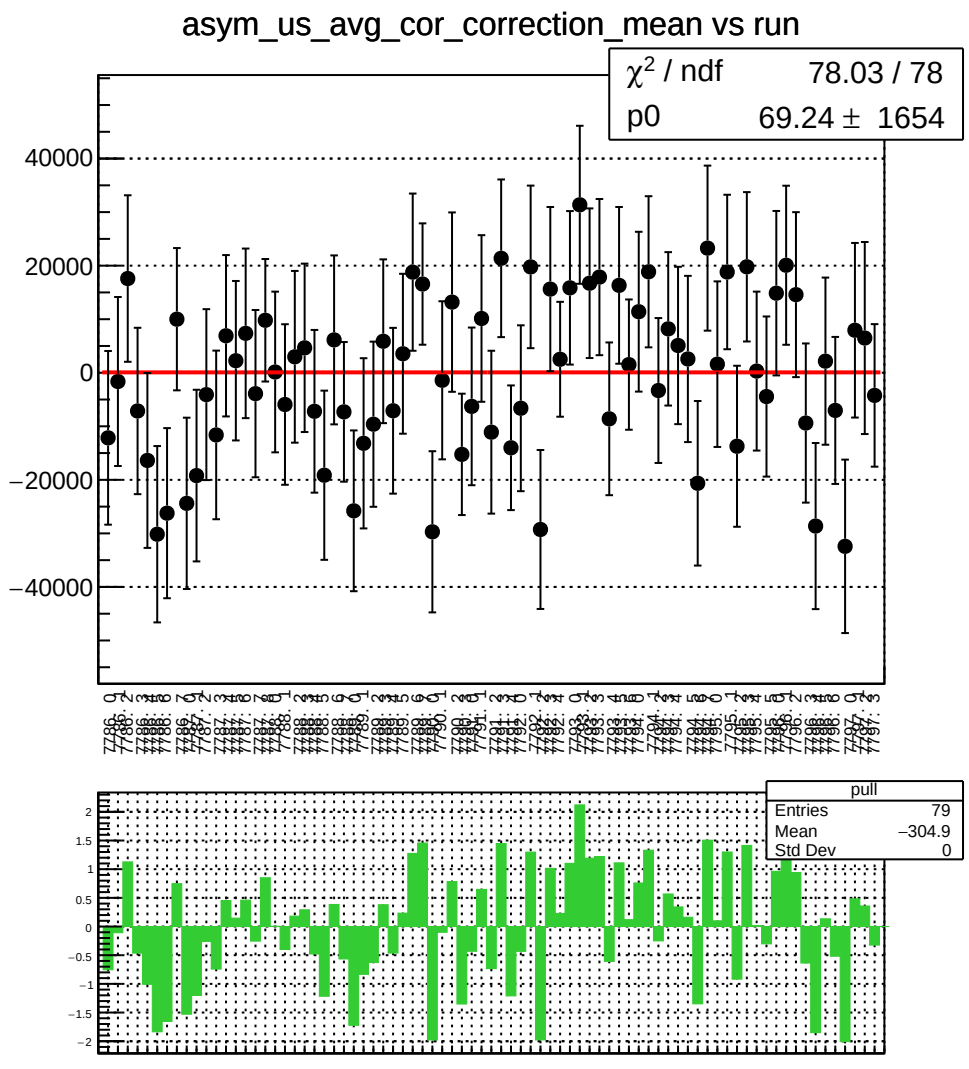

pull1D
Entries 79
Mean −0.01385
Std Dev 0.9937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

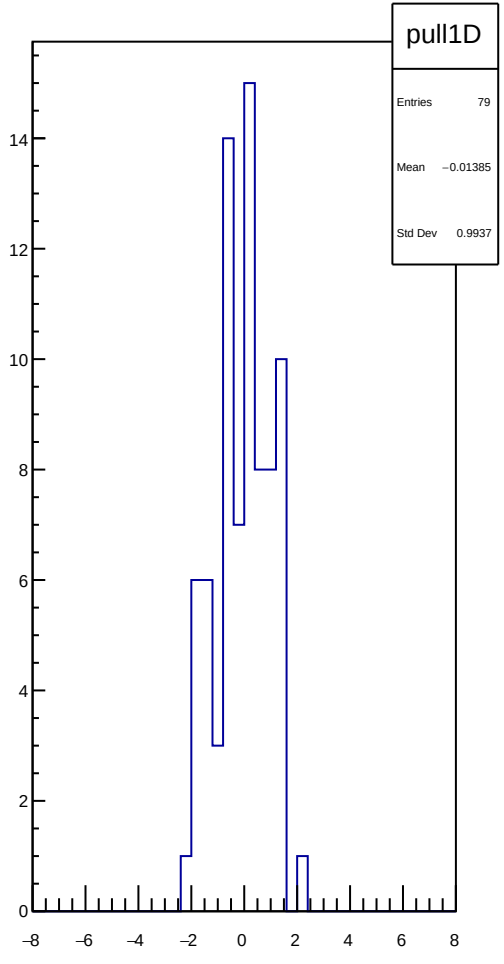

asym_us_avg_reg_correction_rms vs run
χ² / ndf 3174 / 78
p0 1447 ± 1.169
1700
1600
1500
1400
1300

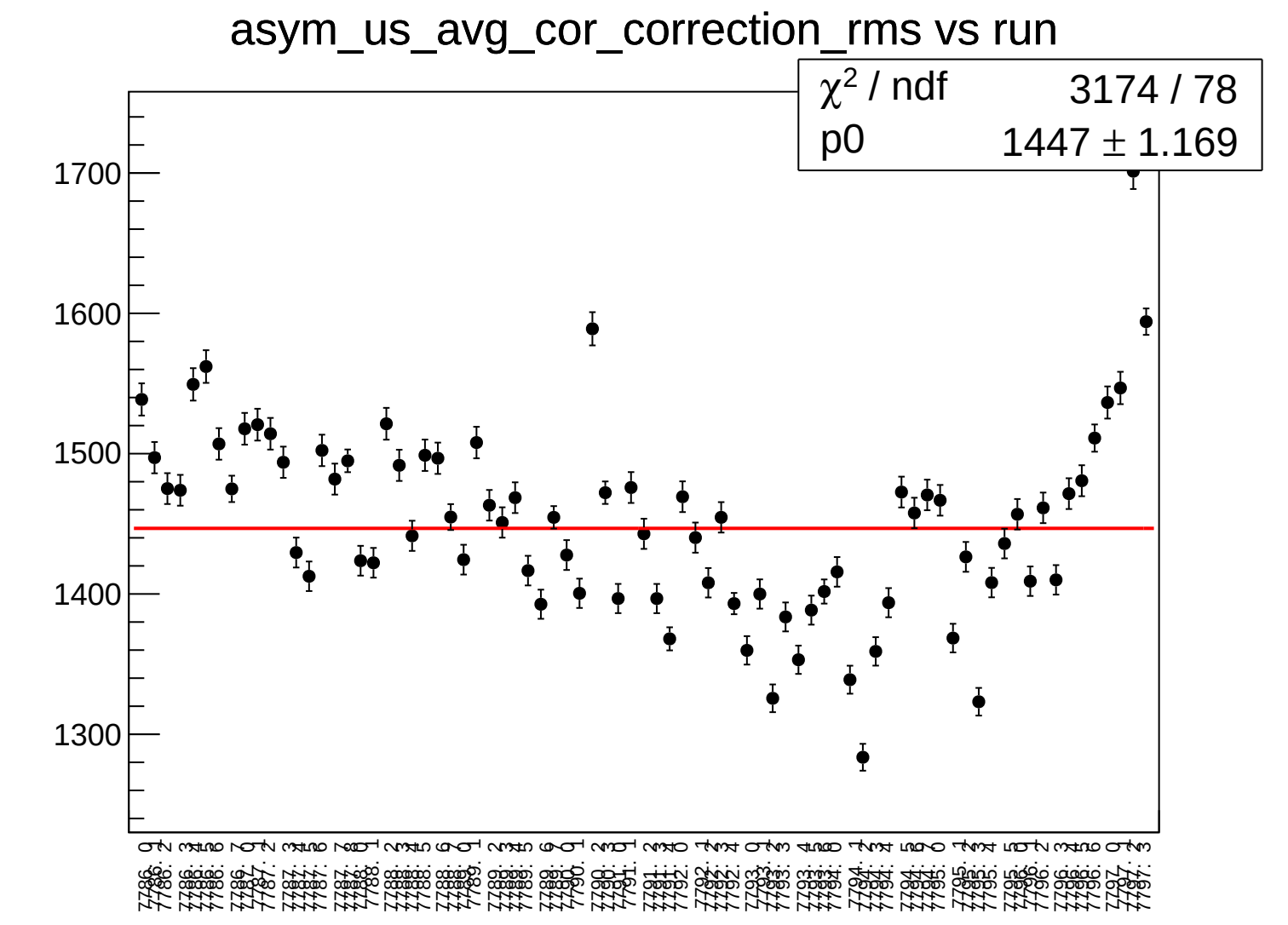

cor_asym_us_avg_mean vs run
χ² / ndf 91.8 / 78
p0 −2052 ± 876.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −805.1
Std Dev 0
3
2
1
0
−1
−2

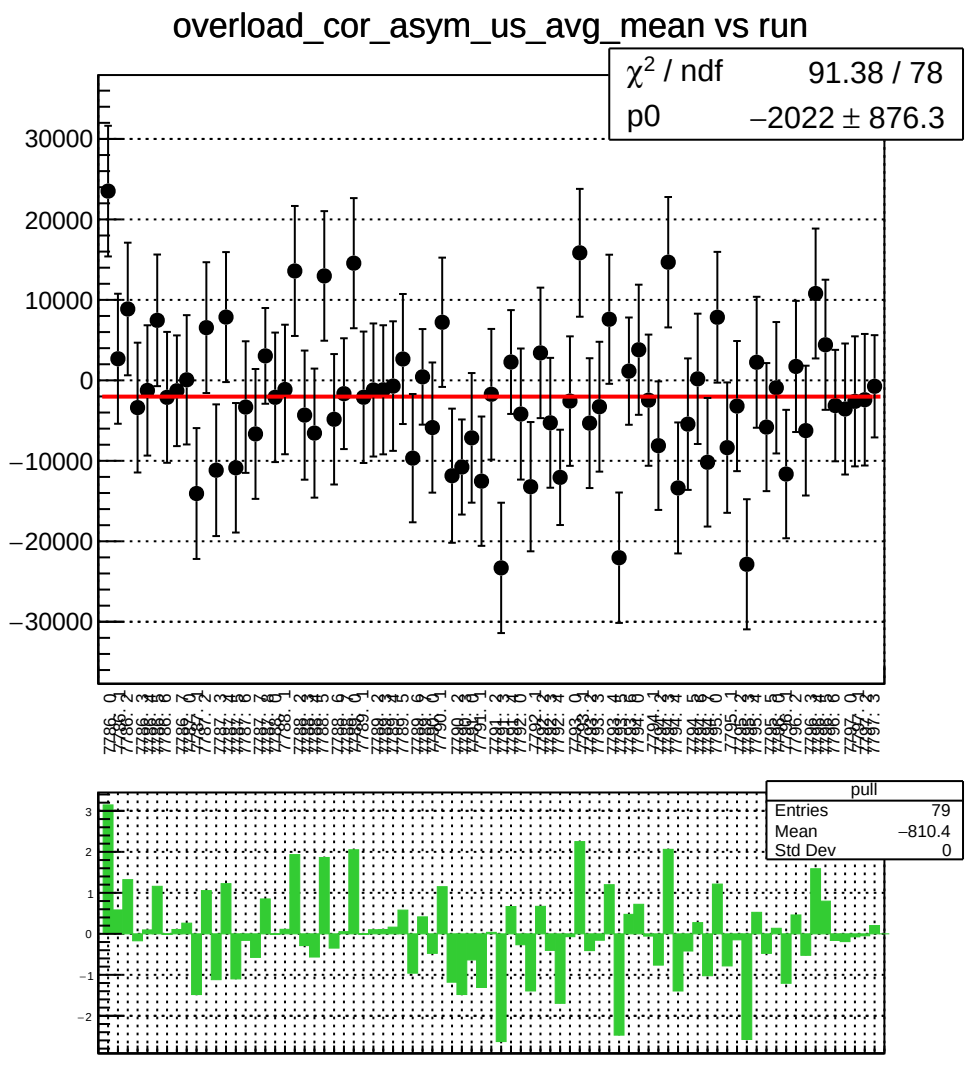

pull1D
Entries 79
Mean 0.005091
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

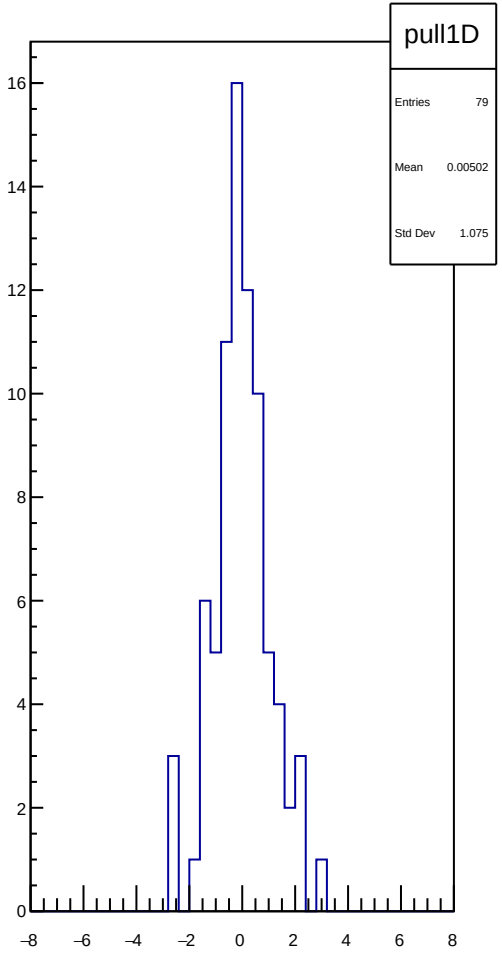

cor_asym_us_avg_rms vs run
χ^2 / ndf 96.82 / 78
p0 767.8 ± 0.62
800
790
780
770
760
750

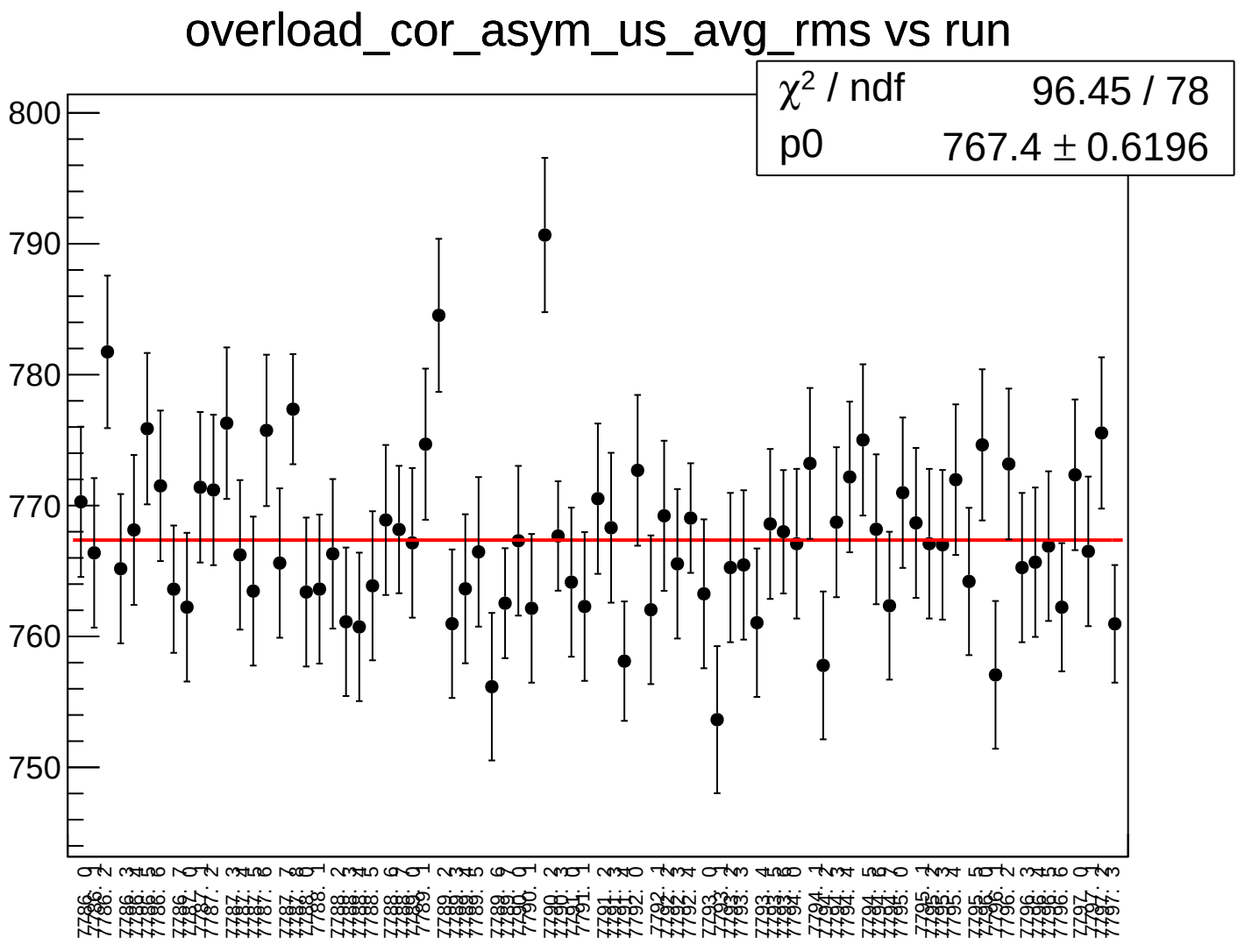

asym_us_avg_cor_correction_mean vs run
χ² / ndf 78.03 / 78
p0 69.24 ± 1654
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −304.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

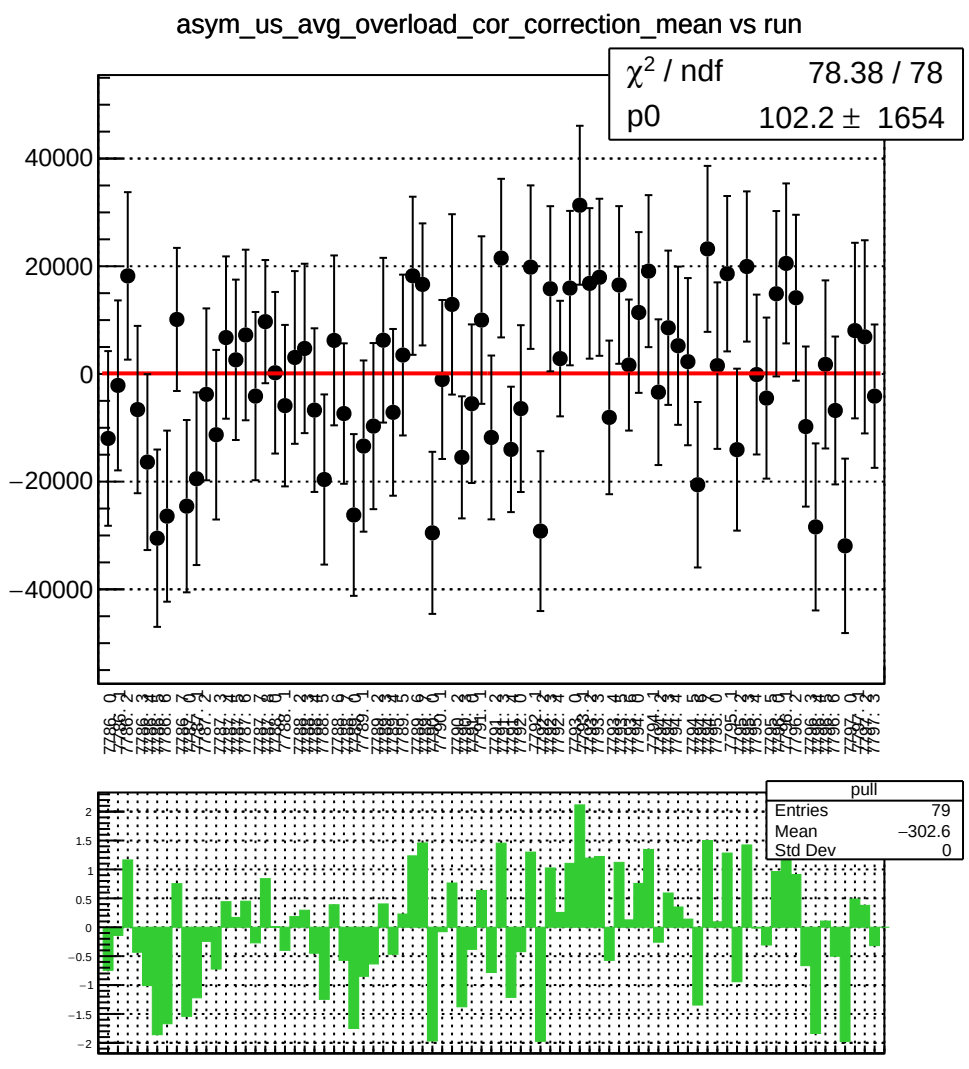

pull1D
Entries 79
Mean −0.01385
Std Dev 0.9937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

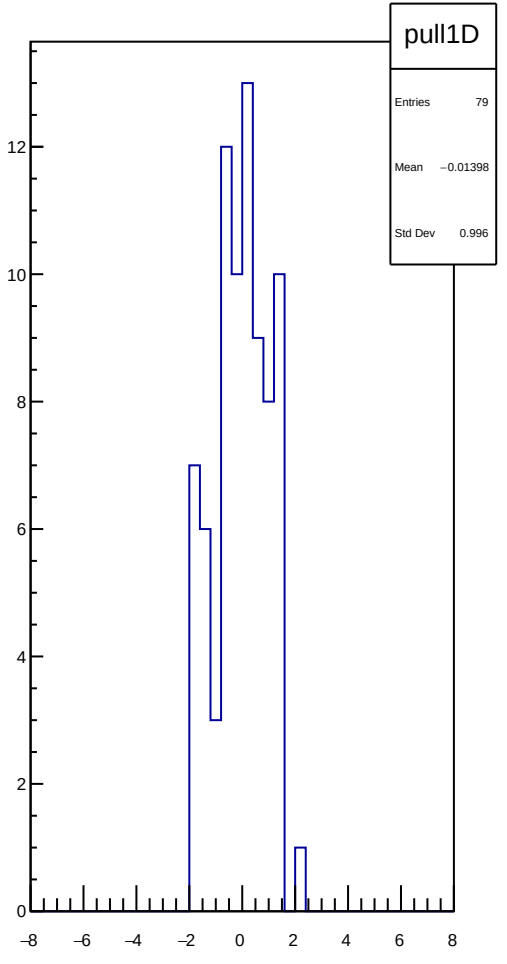

asym_us_avg_cor_correction_rms vs run
χ² / ndf 3174 / 78
p0 1447 ± 1.169
1700
1600
1500
1400
1300

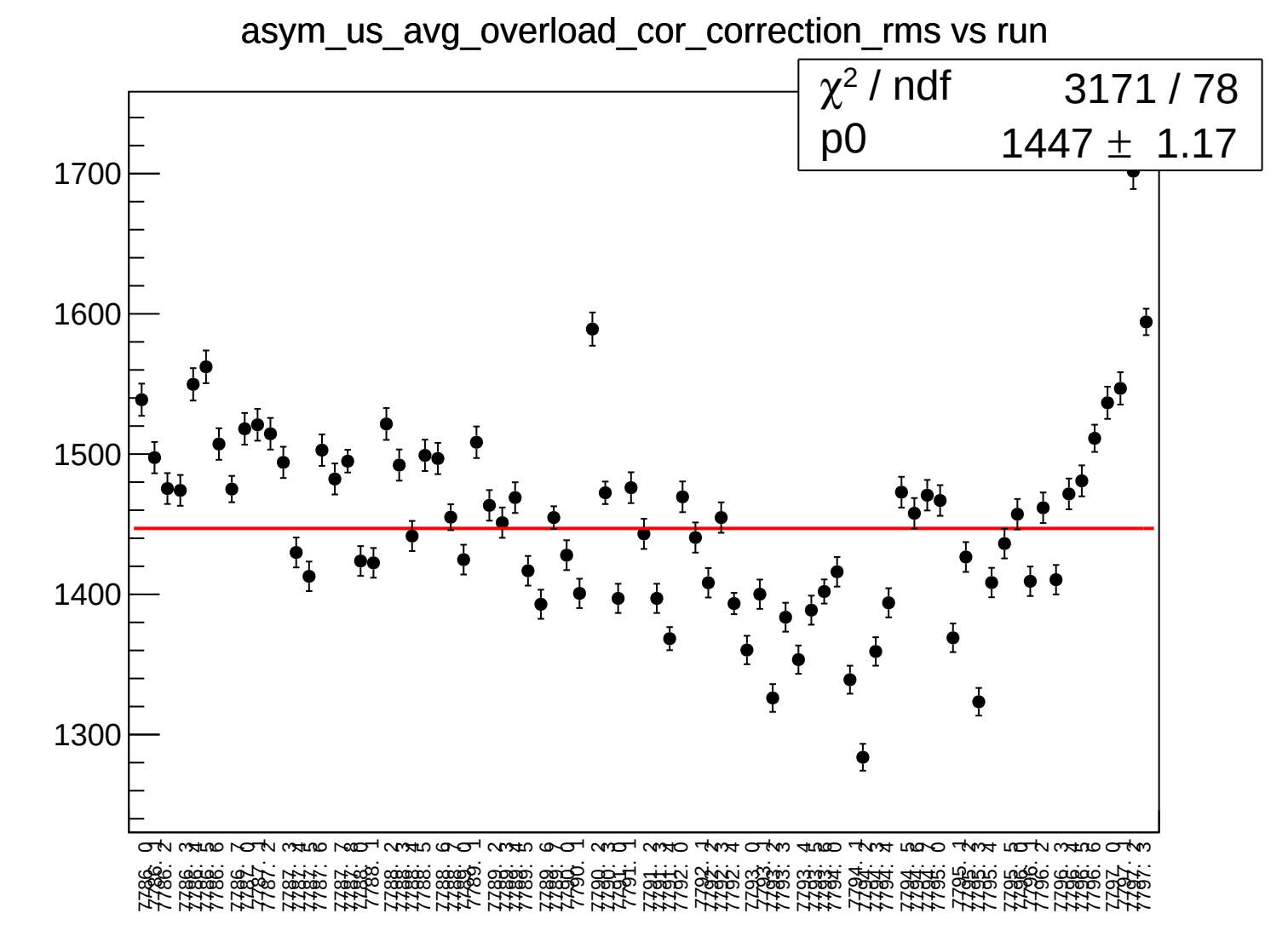

overload_cor_asym_us_avg_mean vs run
χ² / ndf 91.38 / 78
p0 −2022 ± 876.3
pull
Entries 79
Mean −810.4
Std Dev 0

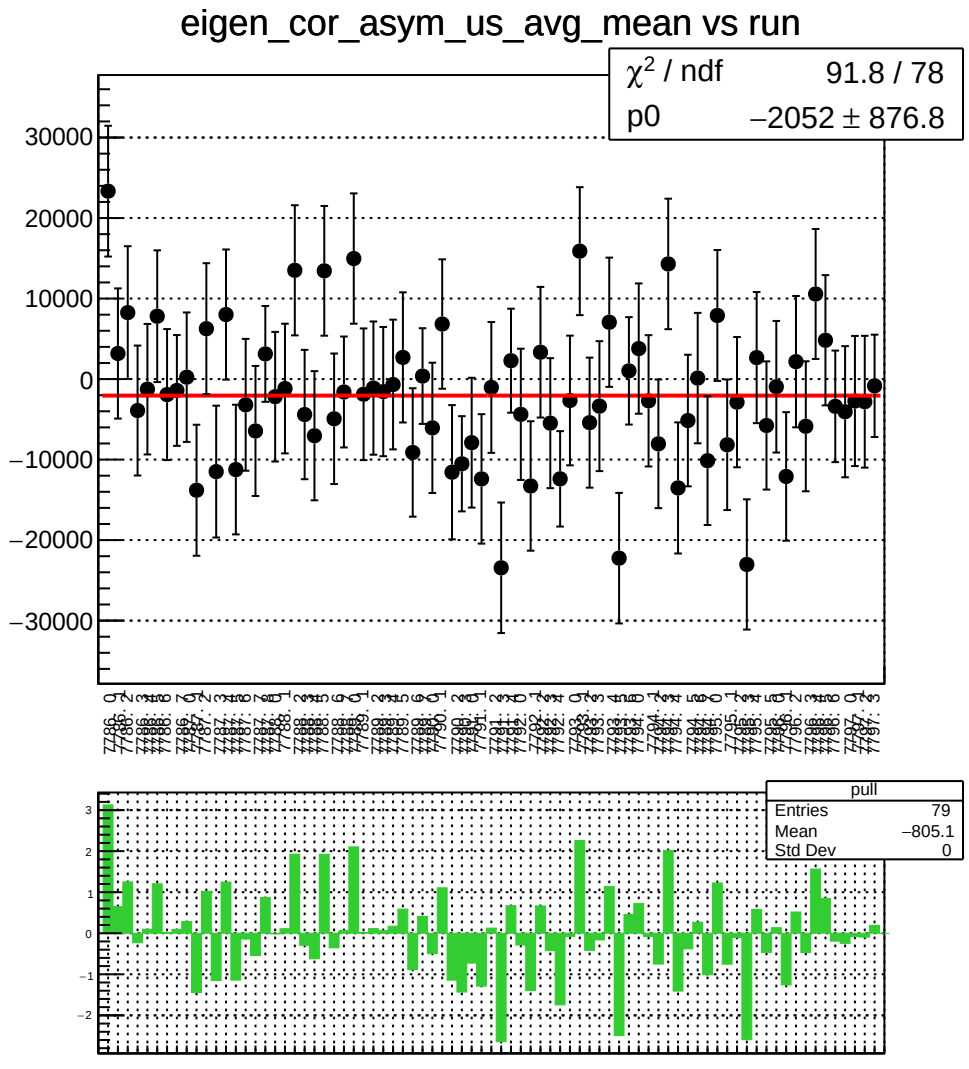

pull1D
Entries 79
Mean 0.00502
Std Dev 1.075

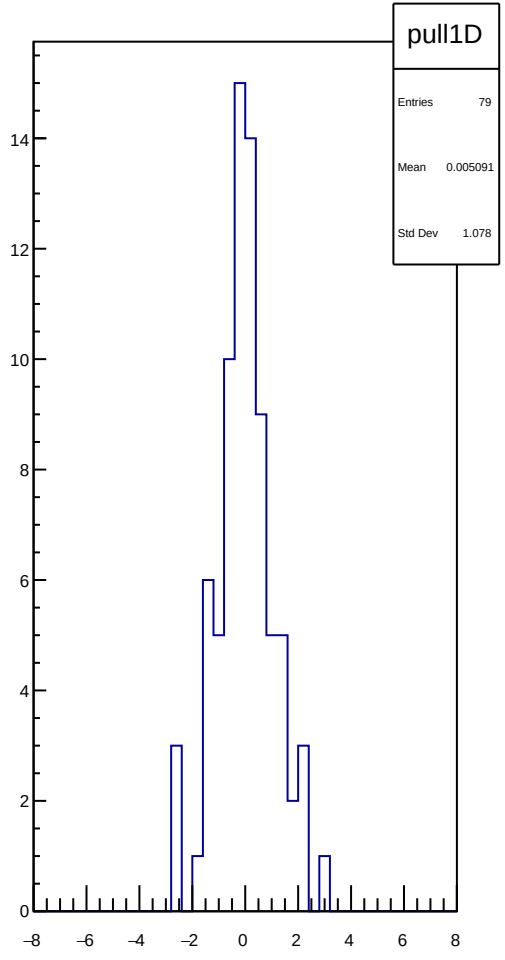

overload_cor_asym_us_avg_rms vs run
χ² / ndf 96.45 / 78
p0 767.4 ± 0.6196
800
790
780
770
760
750

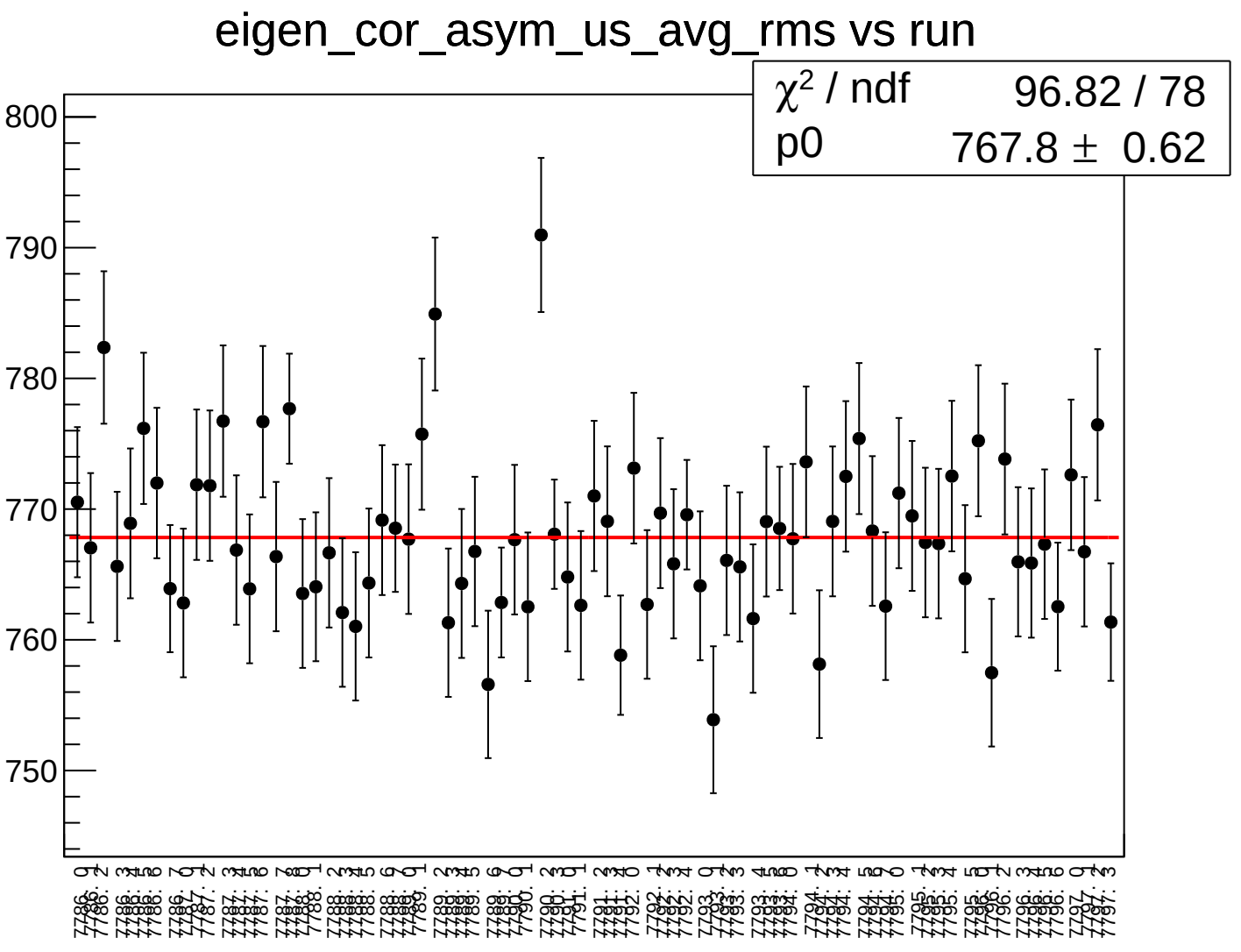

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 78.38 / 78
p0 102.2 ± 1654
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −302.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

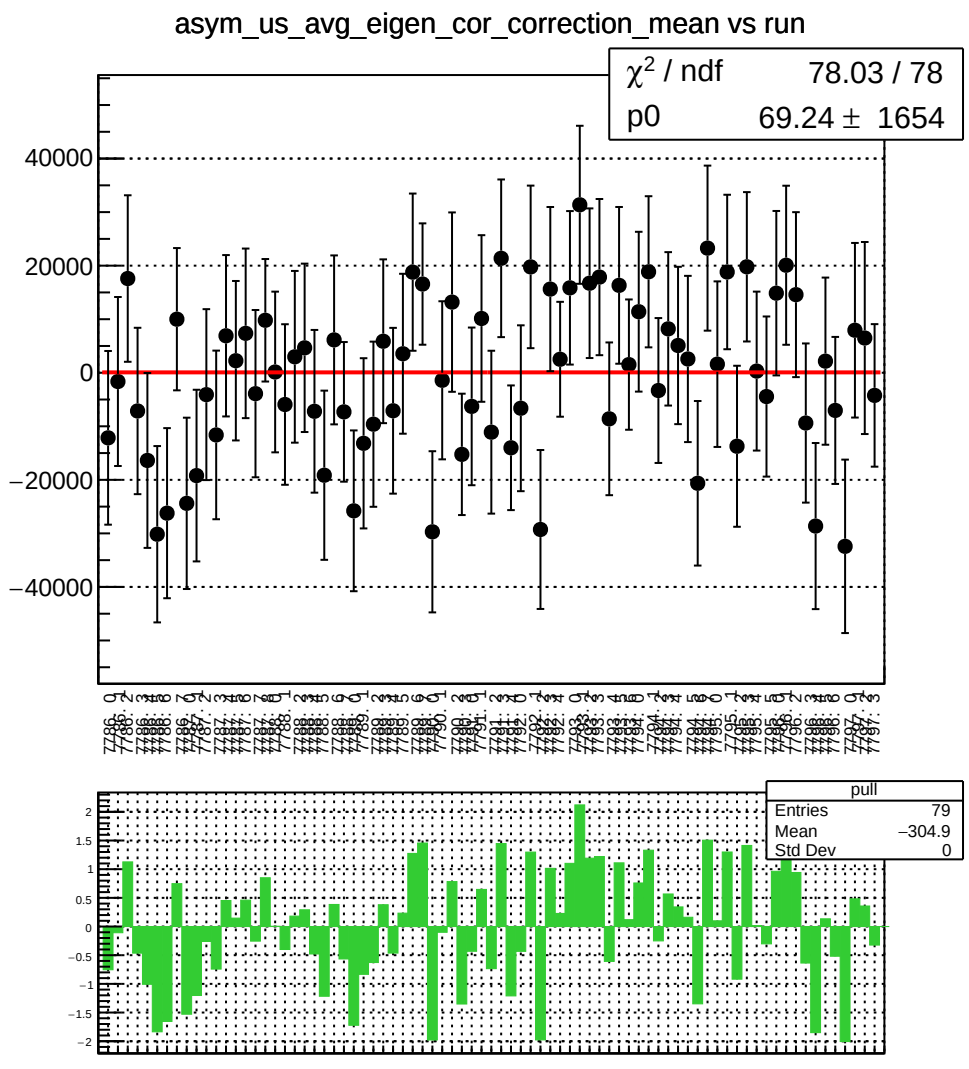

pull1D
Entries 79
Mean −0.01398
Std Dev 0.996
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

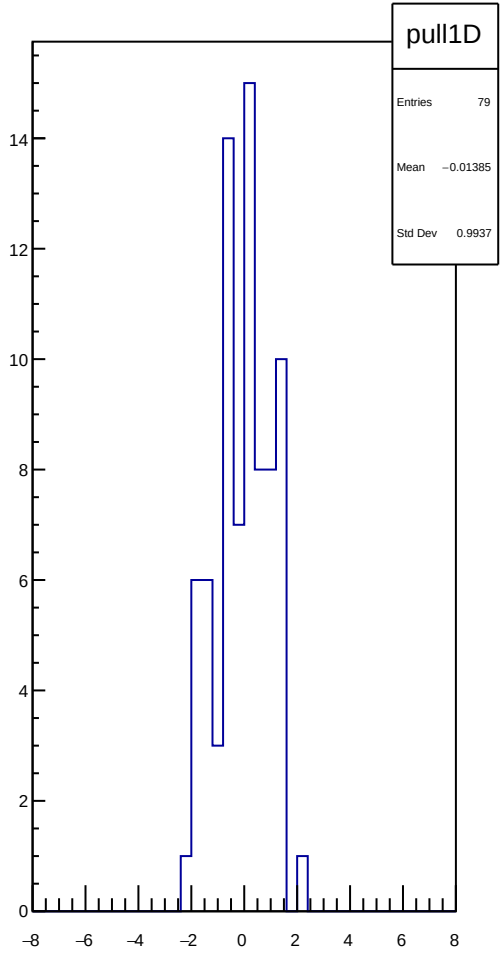

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 3171 / 78
p0 1447 ± 1.17
1700
1600
1500
1400
1300

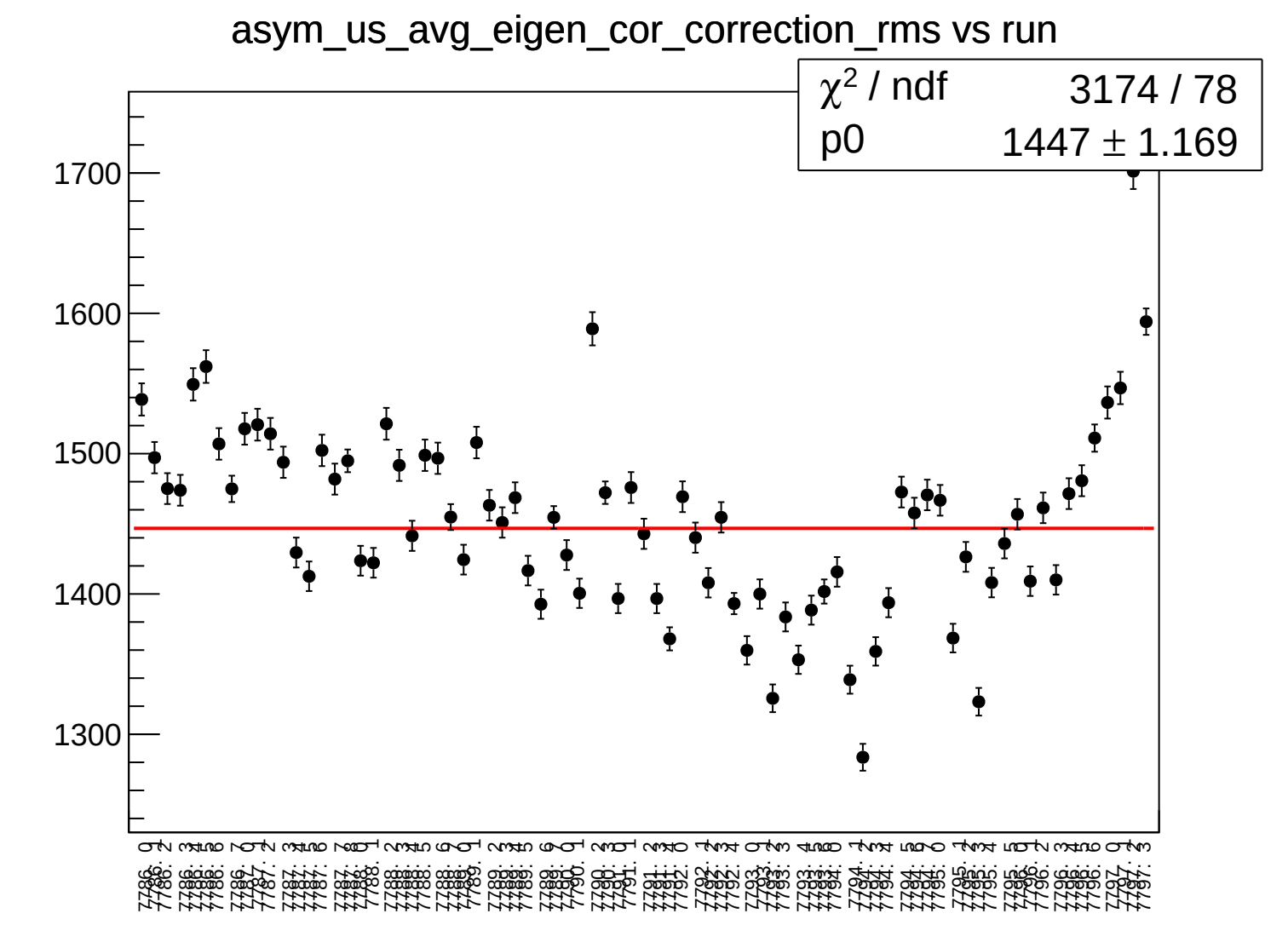

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 91.8 / 78
p0 −2052 ± 876.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −805.1
Std Dev 0
3
2
1
0
−1
−2

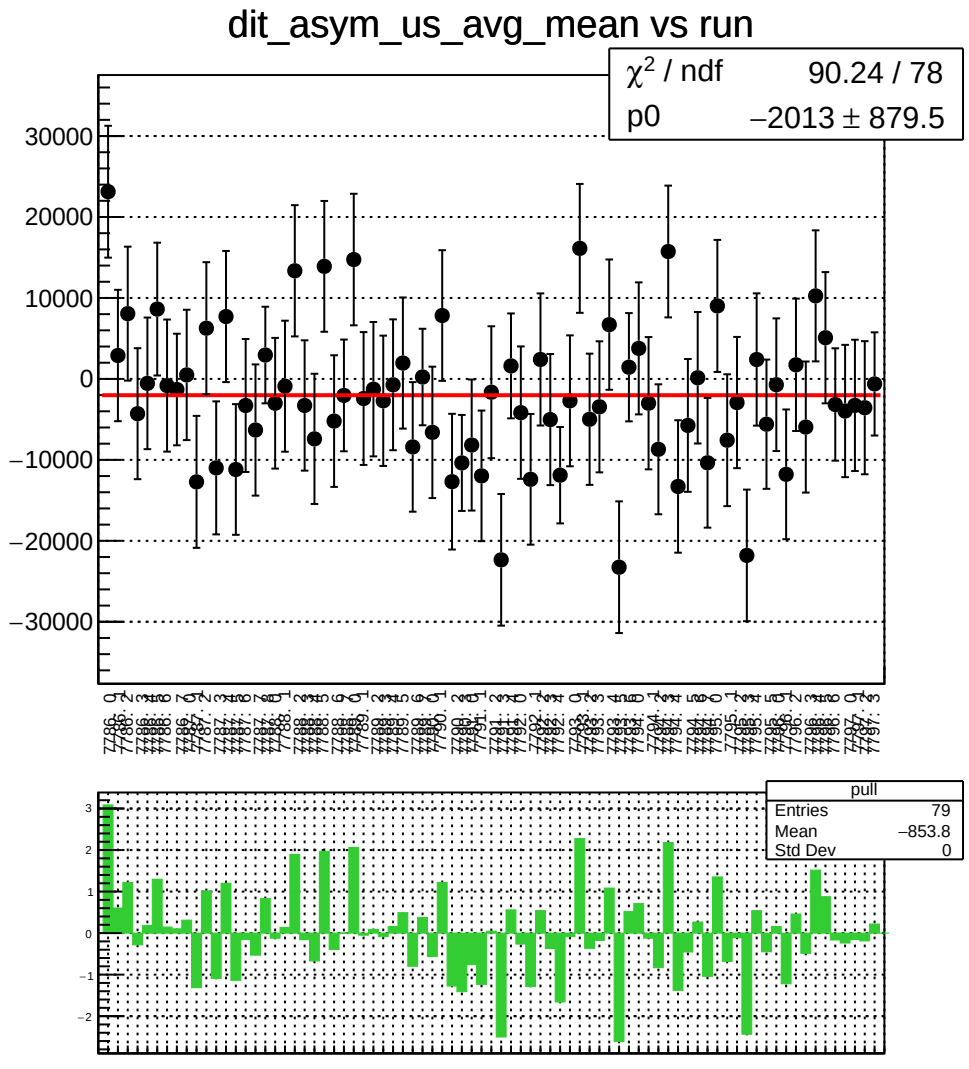

pull1D
Entries 79
Mean 0.005091
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

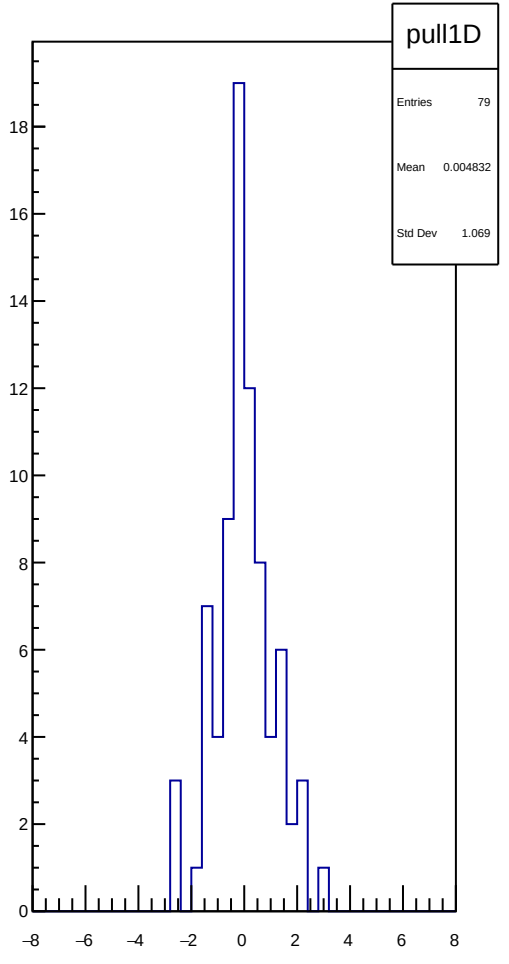

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 96.82 / 78
p0 767.8 ± 0.62
800
790
780
770
760
750

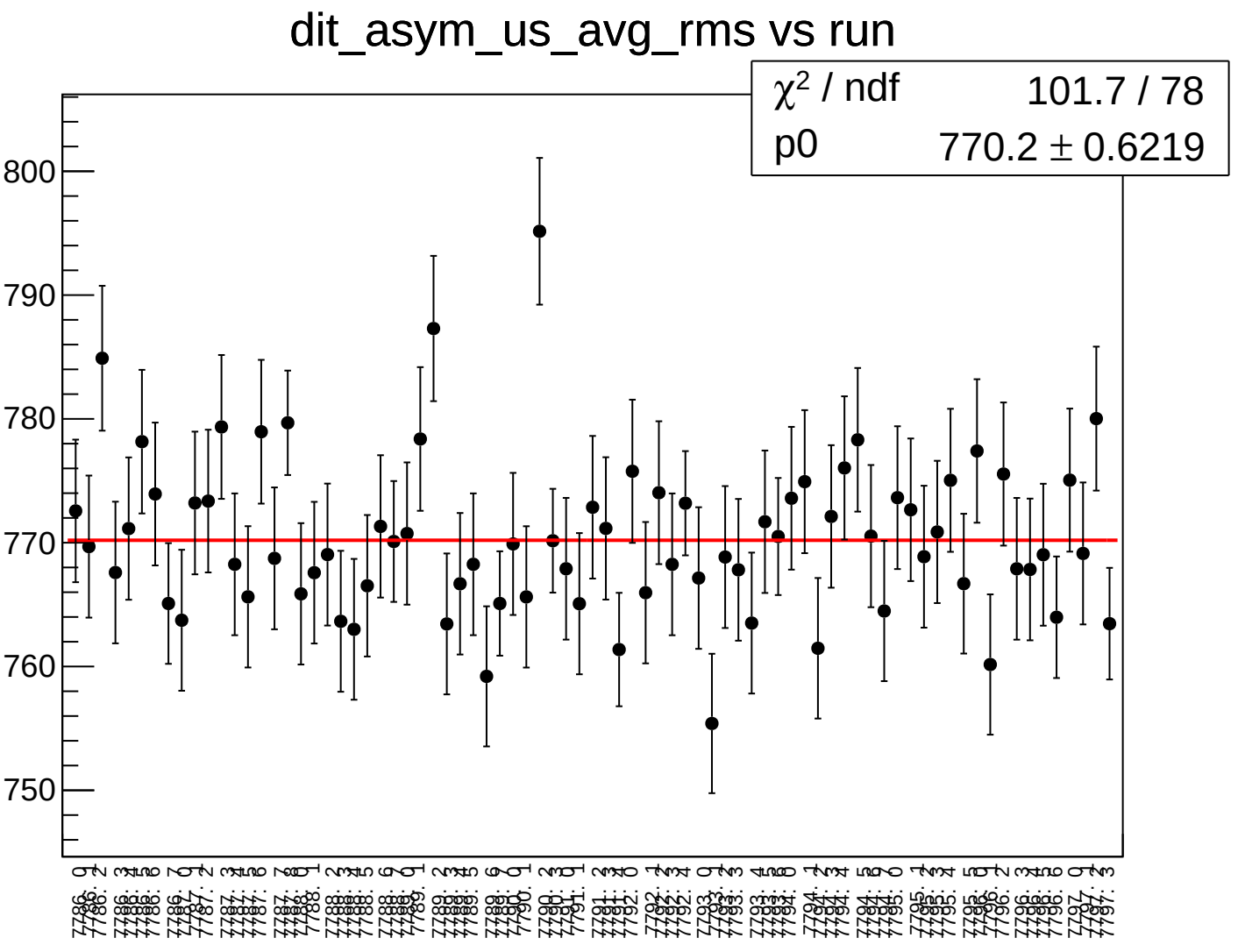

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.03 / 78
p0 69.24 ± 1654
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −304.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

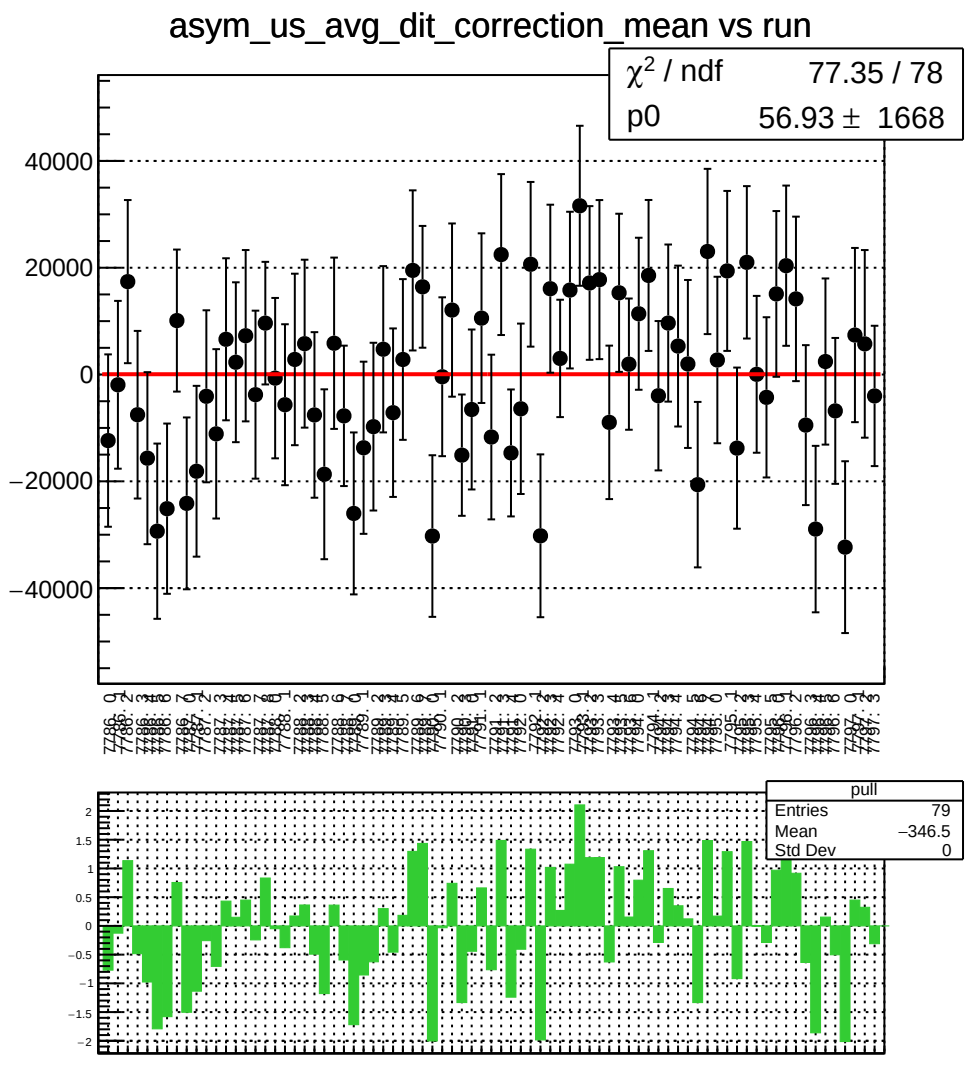

pull1D
Entries 79
Mean −0.01385
Std Dev 0.9937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

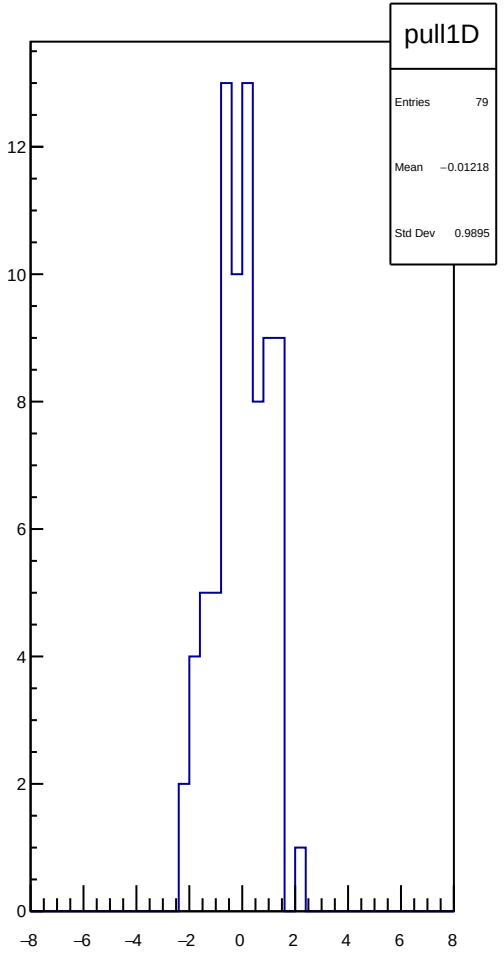

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 3174 / 78
p0 1447 ± 1.169
1700
1600
1500
1400
1300

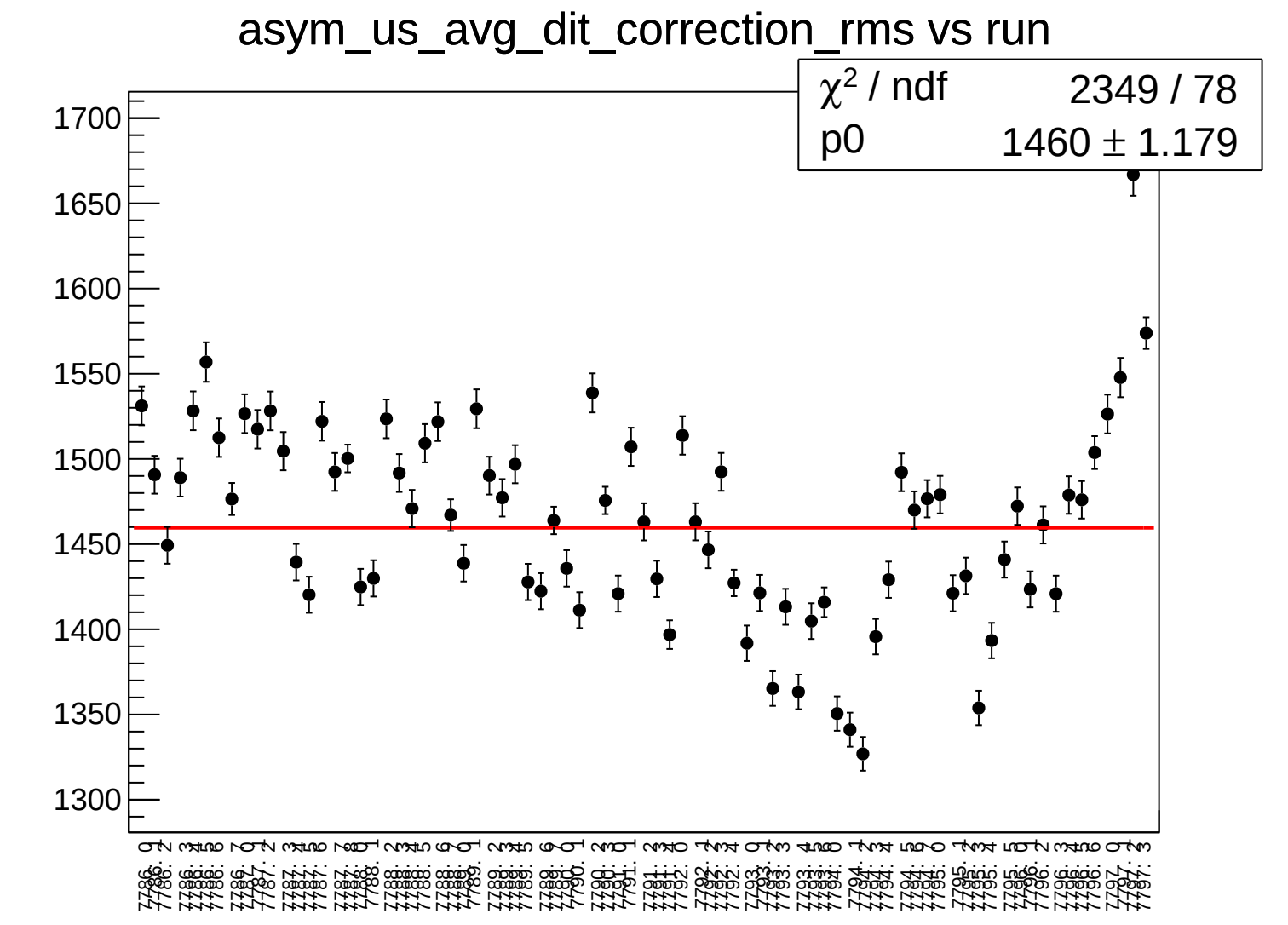

dit_asym_us_avg_mean vs run
χ² / ndf 90.24 / 78
p0 −2013 ± 879.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −853.8
Std Dev 0
3
2
1
0
−1
−2

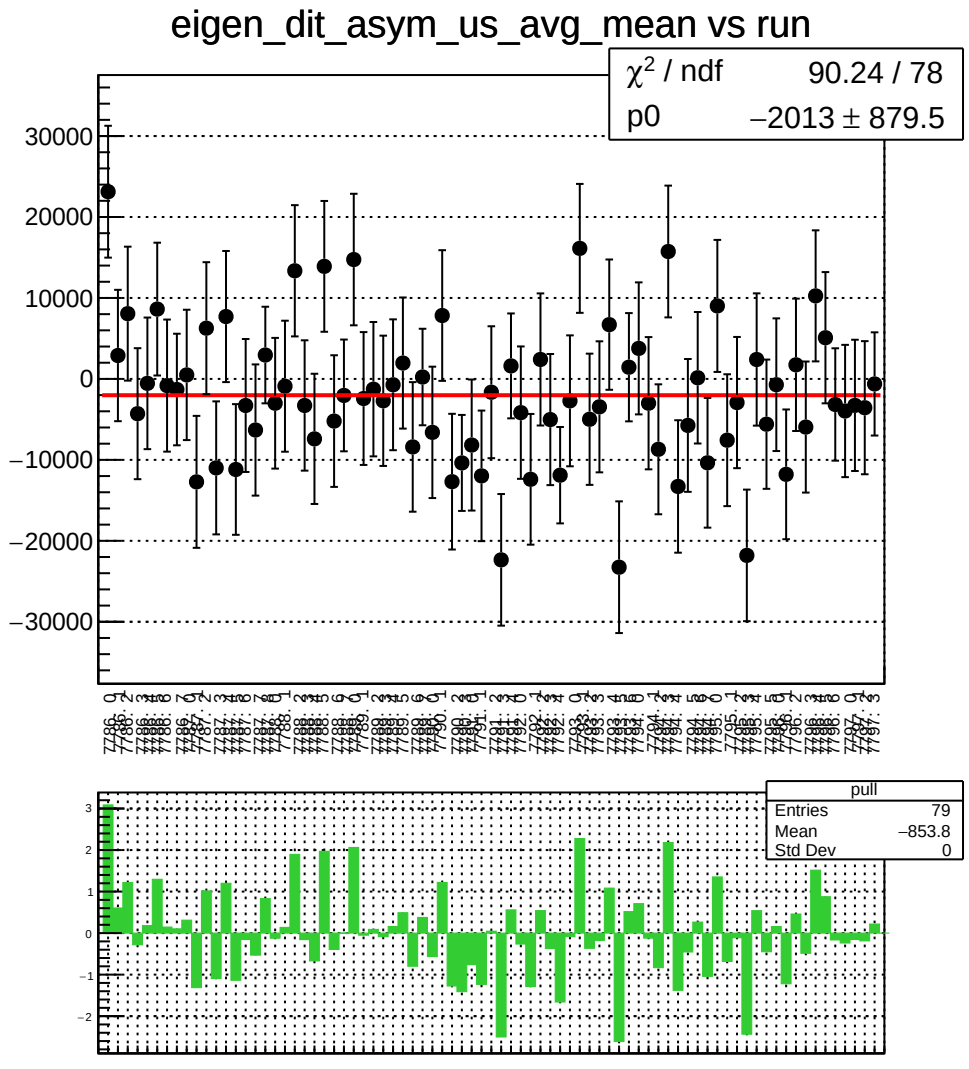

pull1D
Entries 79
Mean 0.004832
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

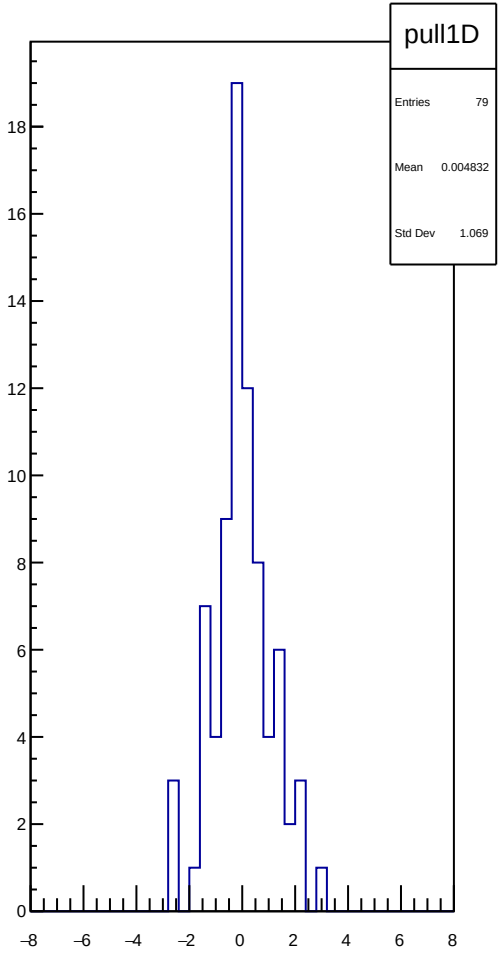

dit_asym_us_avg_rms vs run
χ² / ndf 101.7 / 78
p0 770.2 ± 0.6219
800
790
780
770
760
750

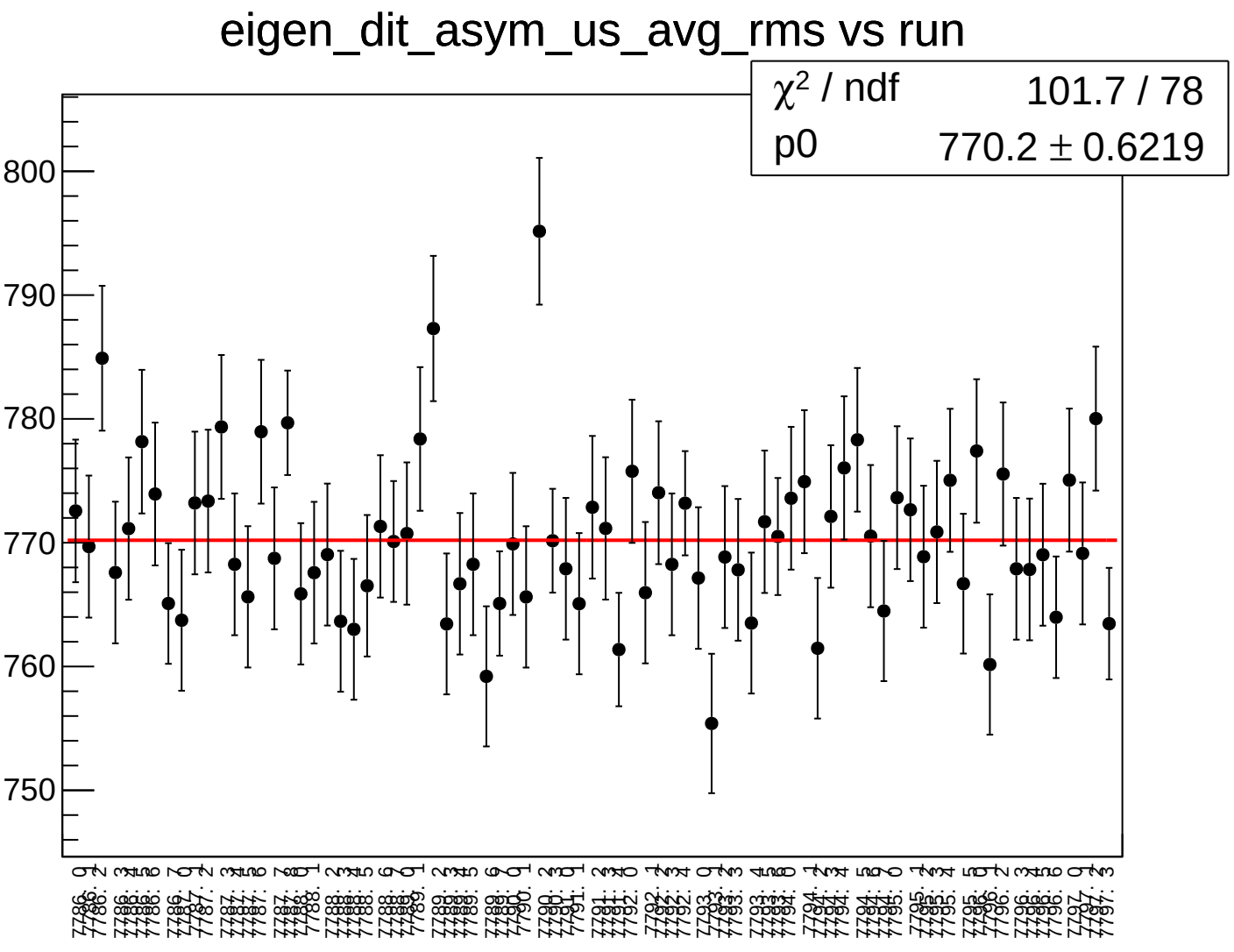

asym_us_avg_dit_correction_mean vs run
χ² / ndf 77.35 / 78
p0 56.93 ± 1668
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −346.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

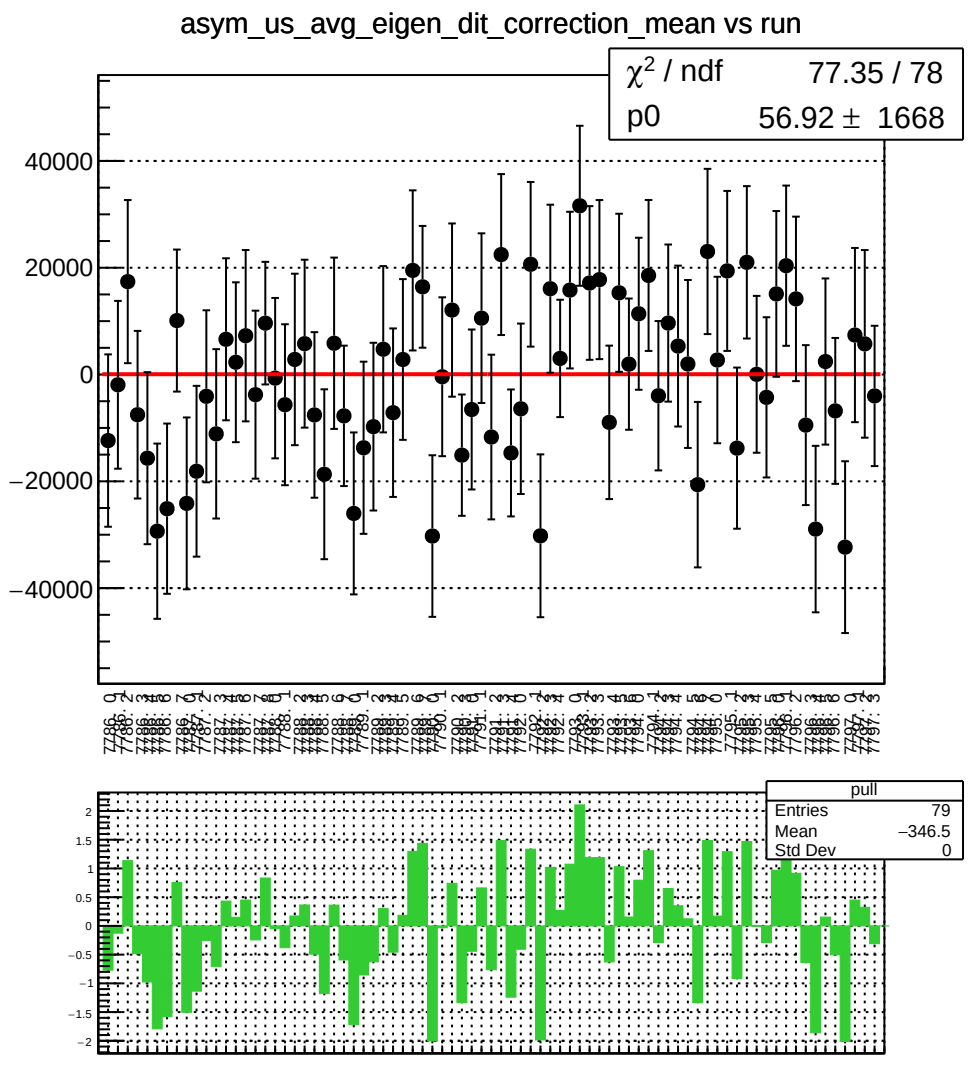

pull1D
Entries 79
Mean −0.01218
Std Dev 0.9895
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

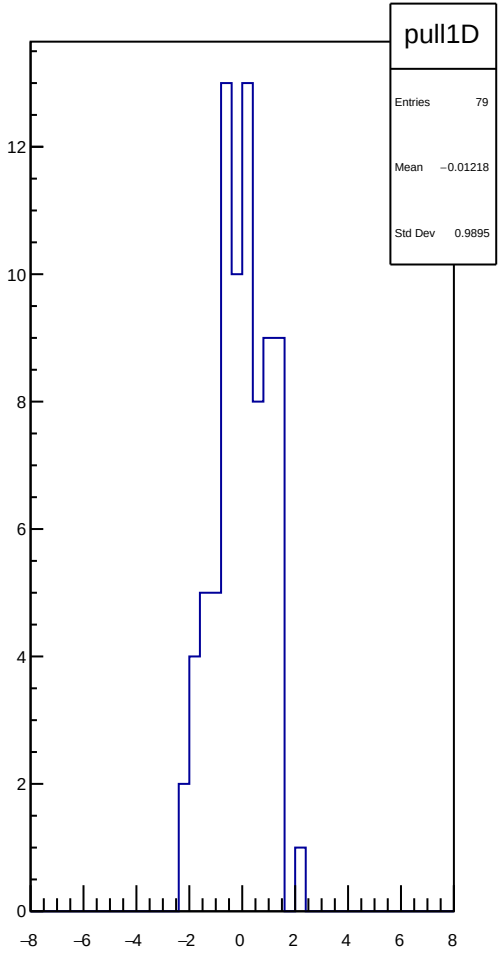

asym_us_avg_dit_correction_rms vs run
χ² / ndf 2349 / 78
p0 1460 ± 1.179
1700
1650
1600
1550
1500
1450
1400
1350
1300


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 90.24 / 78
p0 −2013 ± 879.5
pull
Entries 79
Mean −853.8
Std Dev 0


pull1D
Entries 79
Mean 0.004832
Std Dev 1.069


eigen_dit_asym_us_avg_rms vs run
χ² / ndf 101.7 / 78
p0 770.2 ± 0.6219
800
790
780
770
760
750


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.35 / 78
p0 56.92 ± 1668
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −346.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 79
Mean −0.01218
Std Dev 0.9895
12
10
8
6
4
2
0
−8
−6
−4
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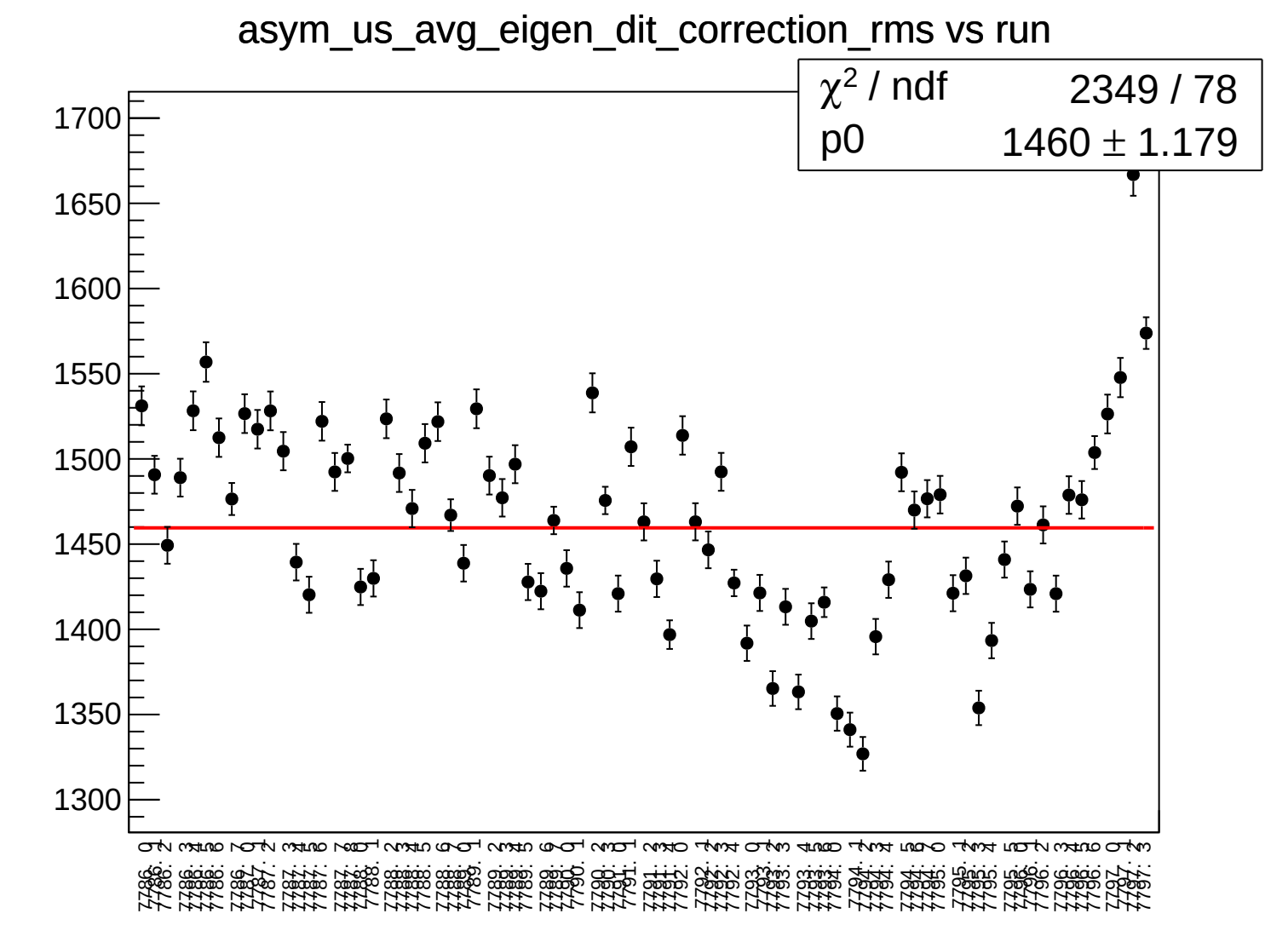
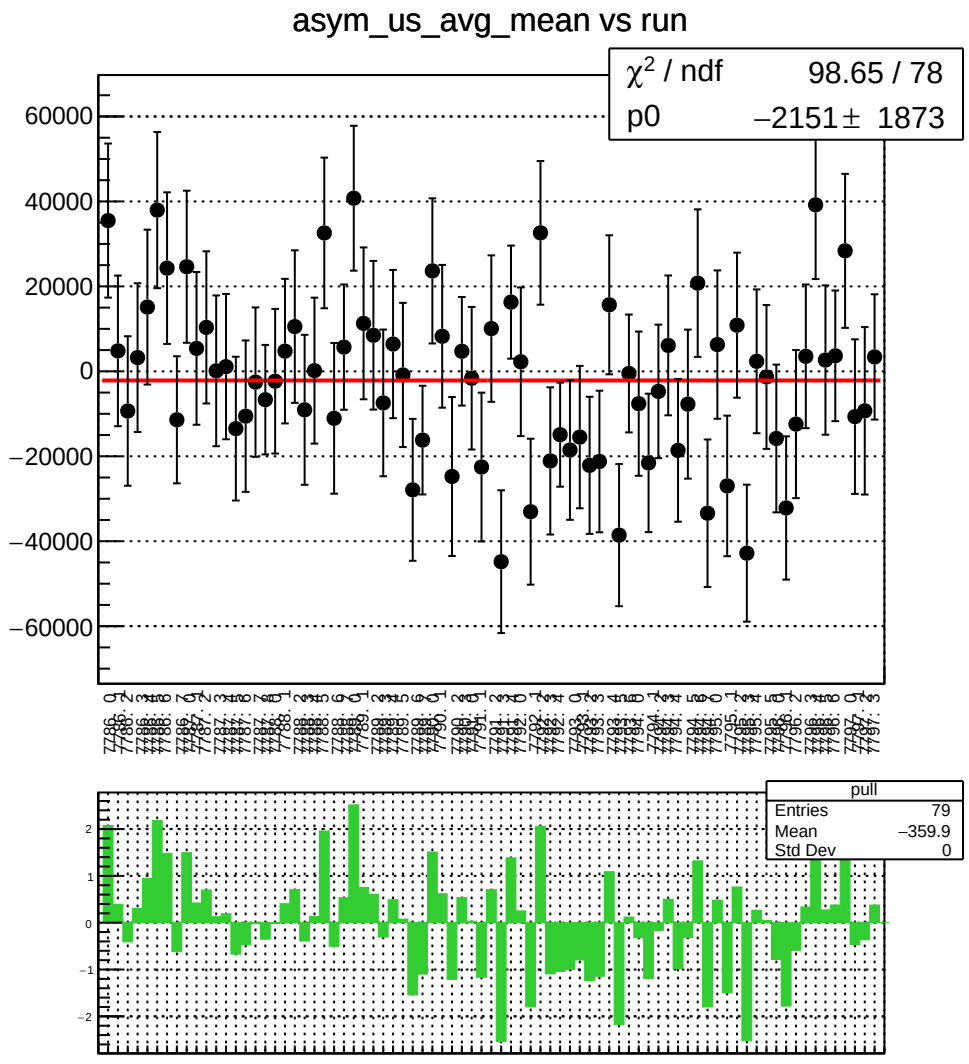
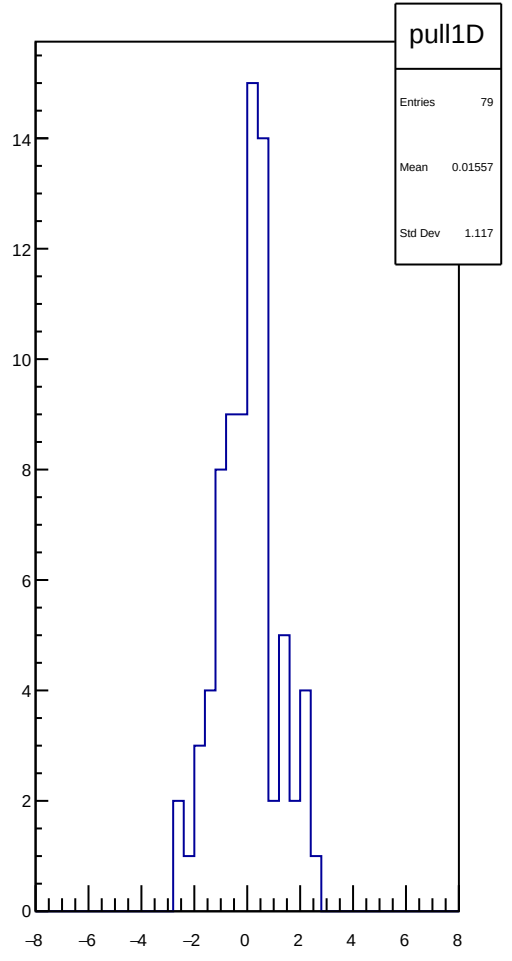
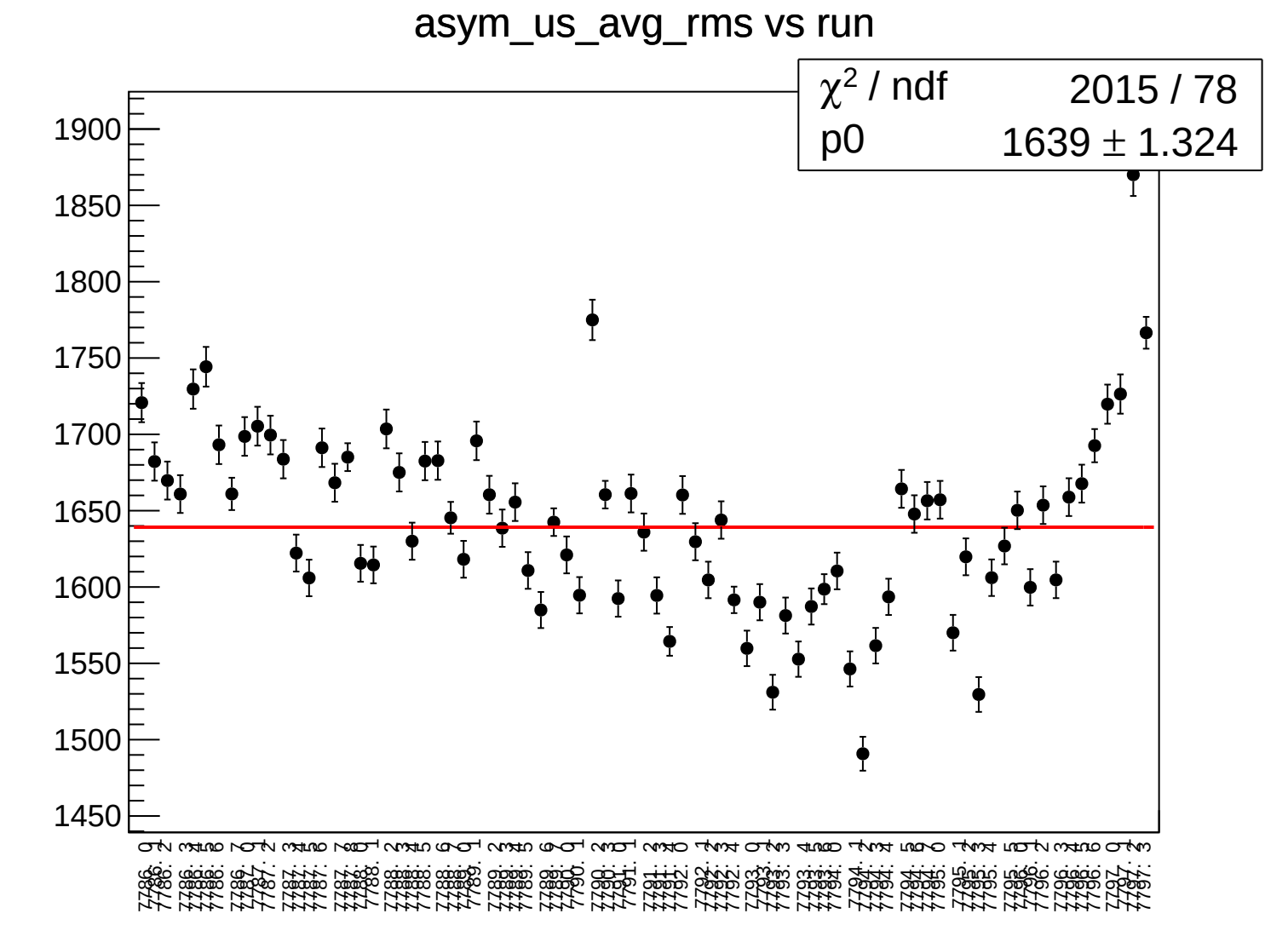
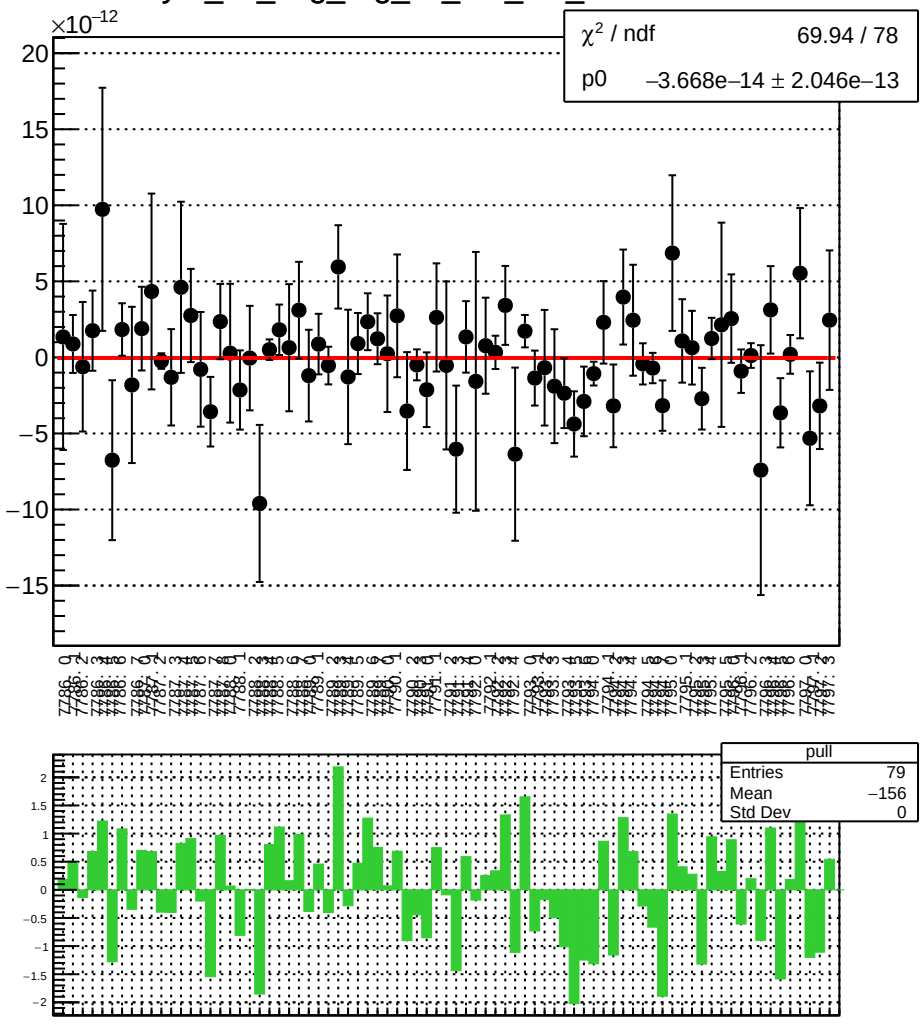
0
2
4
6
8

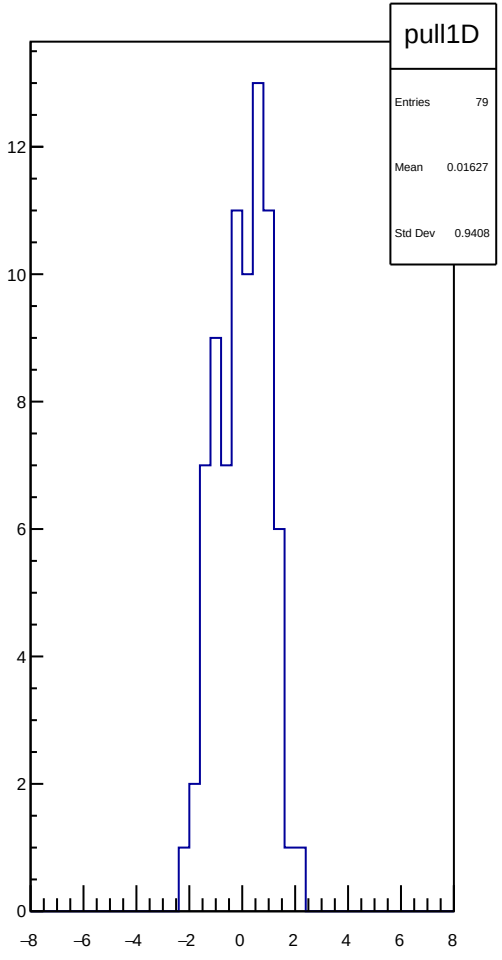

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 2349 / 78
p0 1460 ± 1.179
1700
1650
1600
1550
1500
1450
1400
1350
1300

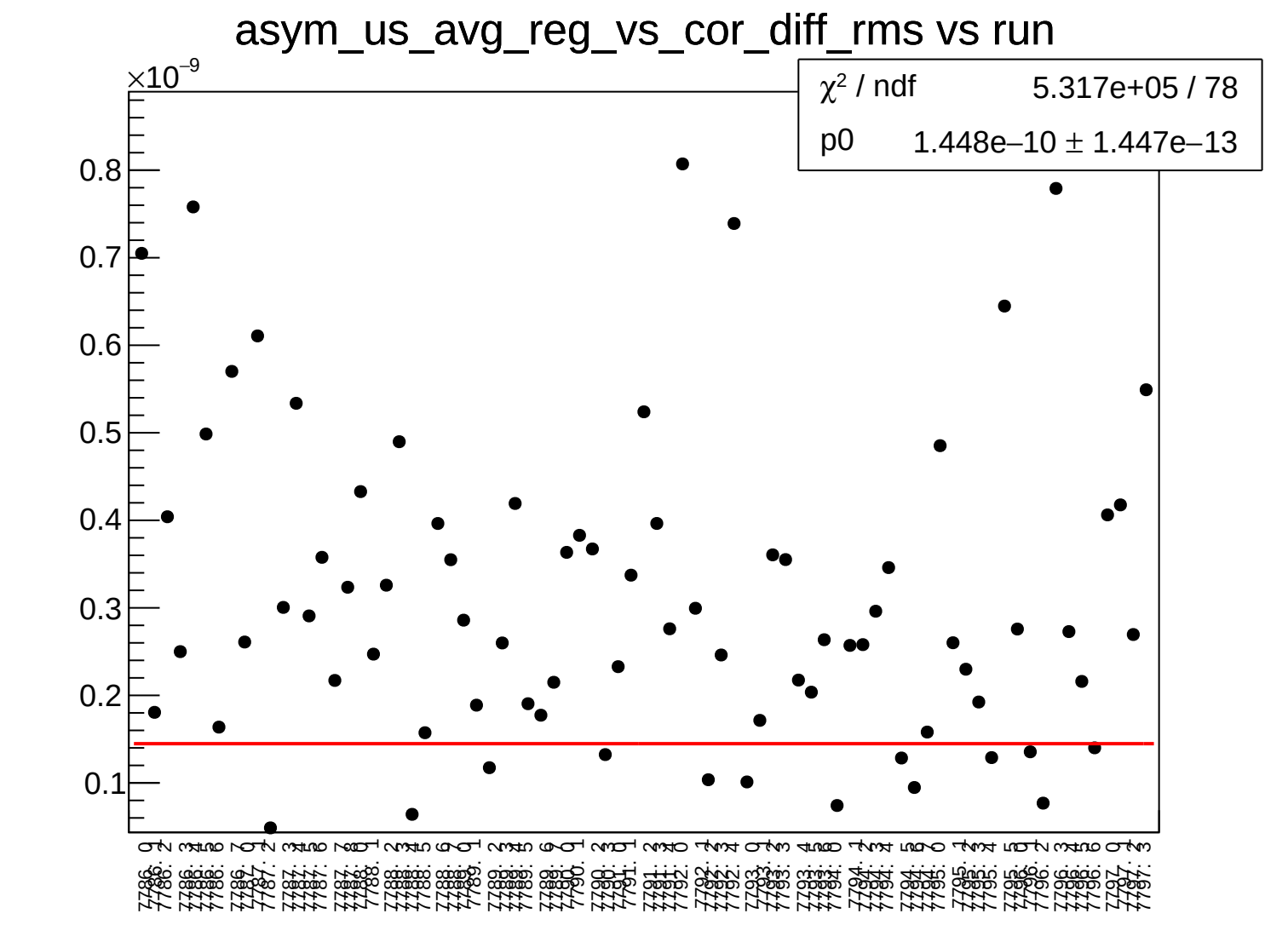

asym_us_avg_mean vs run
χ² / ndf 98.65 / 78
p0 −2151 ± 1873
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −359.9
Std Dev 0
2
1
0
−1
−2

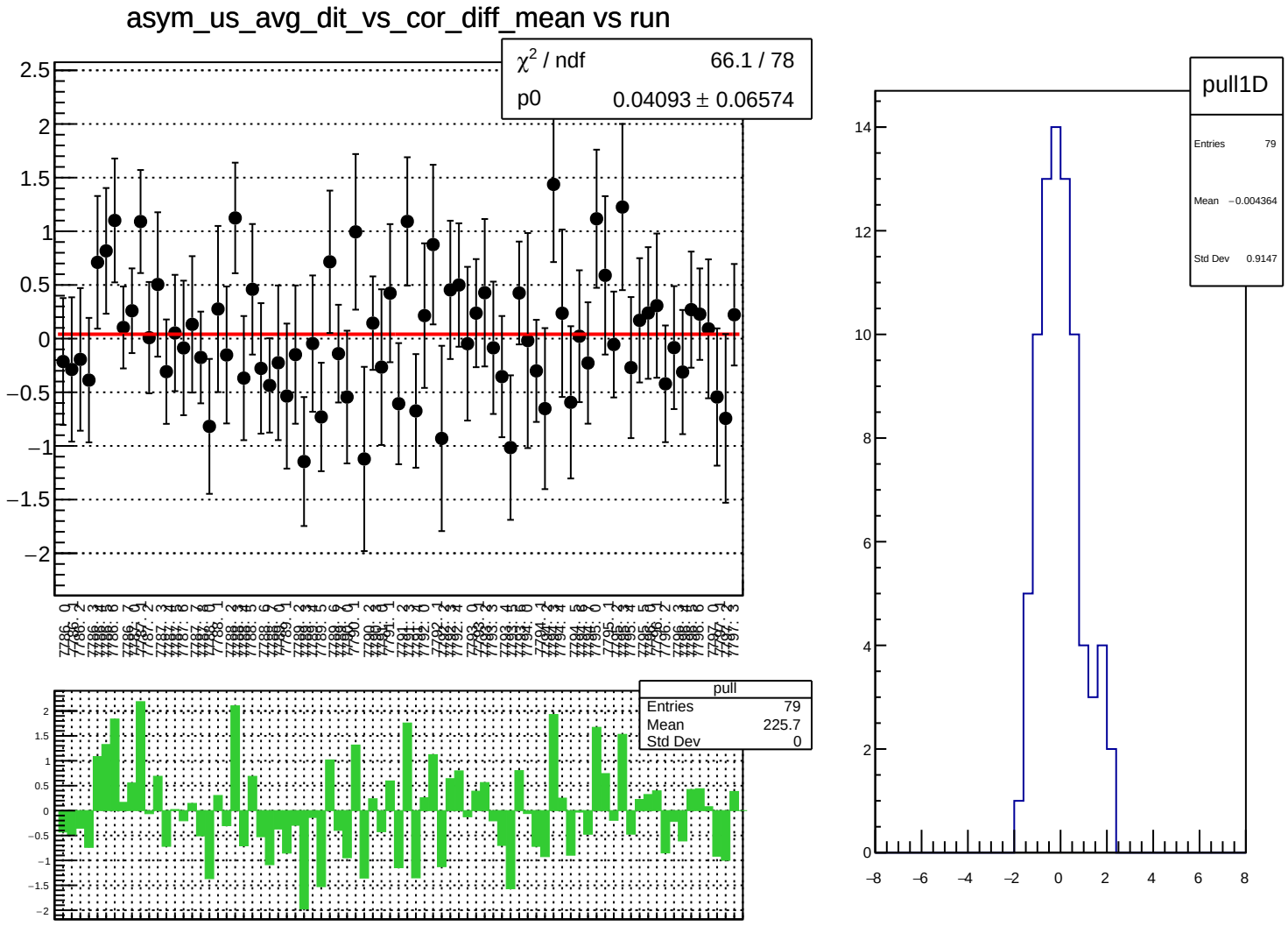

pull1D
Entries 79
Mean 0.01557
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

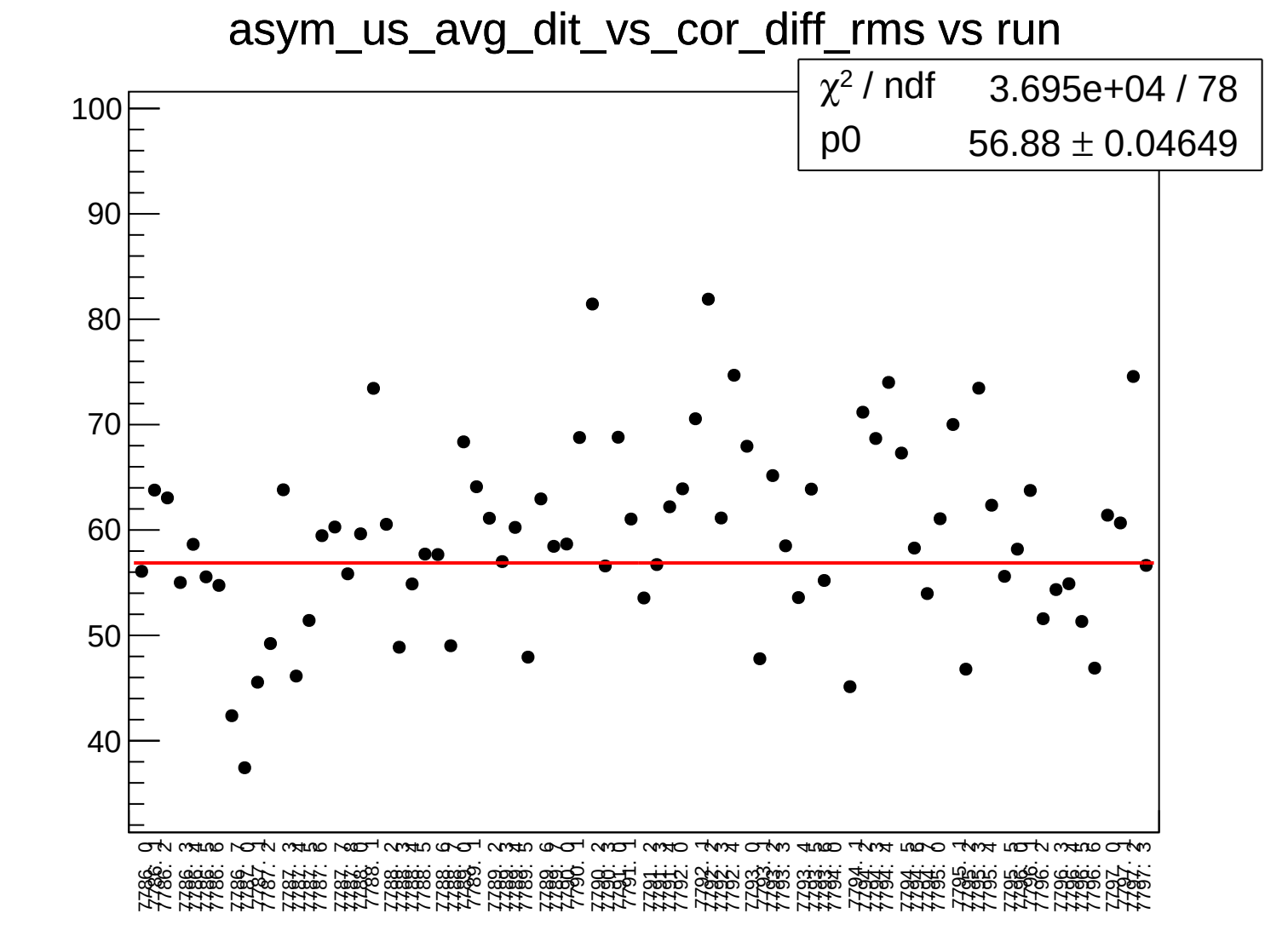

asym_us_avg_rms vs run
χ^2 / ndf 2015 / 78
p0 1639 ± 1.324
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

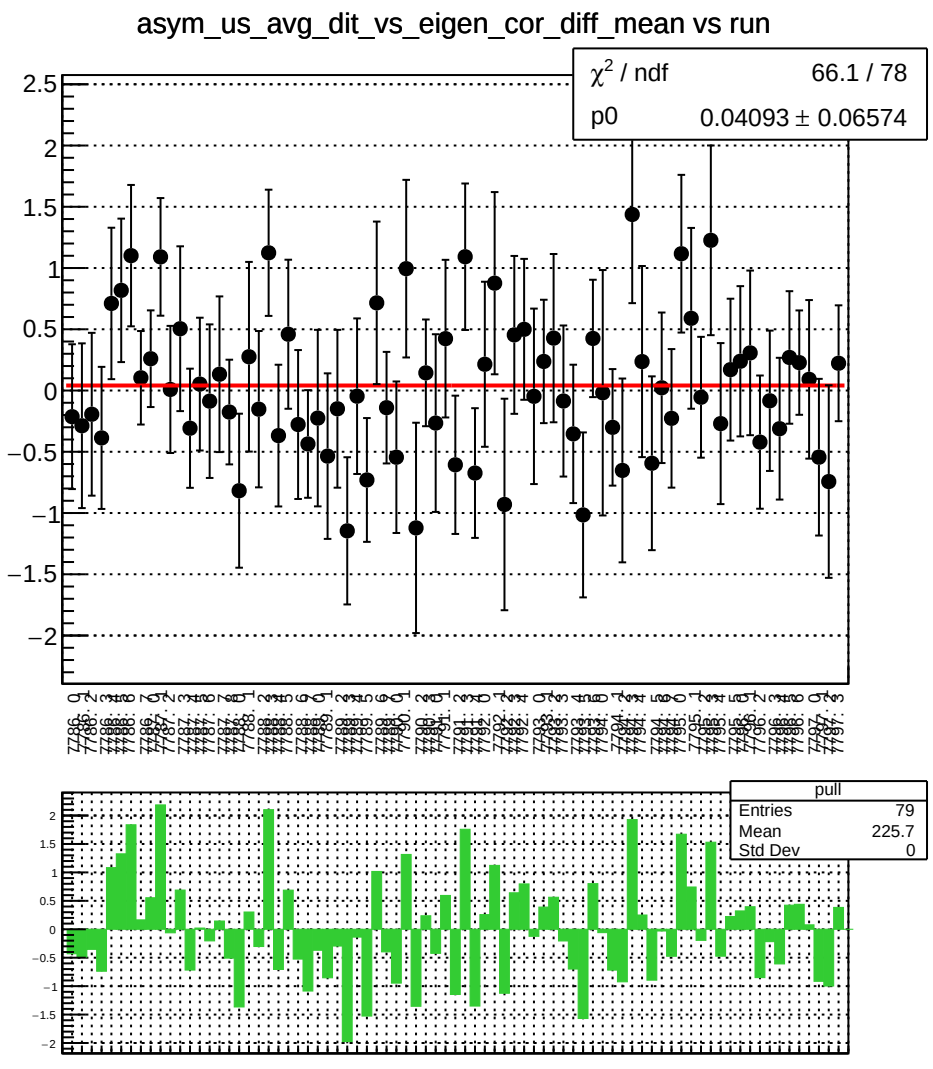

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.94 / 78
p0 −3.668e−14 ± 2.046e−13
pull
Entries 79
Mean −156
Std Dev 0

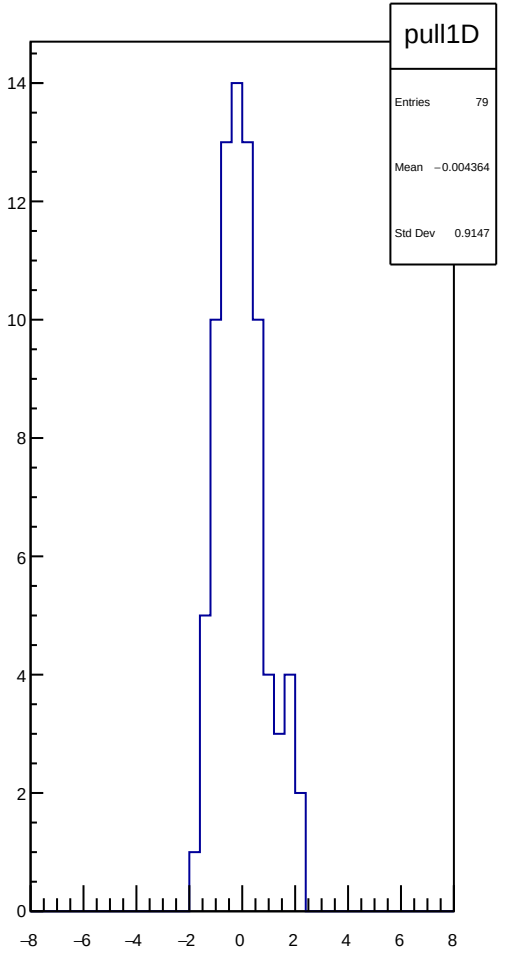

pull1D
Entries 79
Mean 0.01627
Std Dev 0.9408

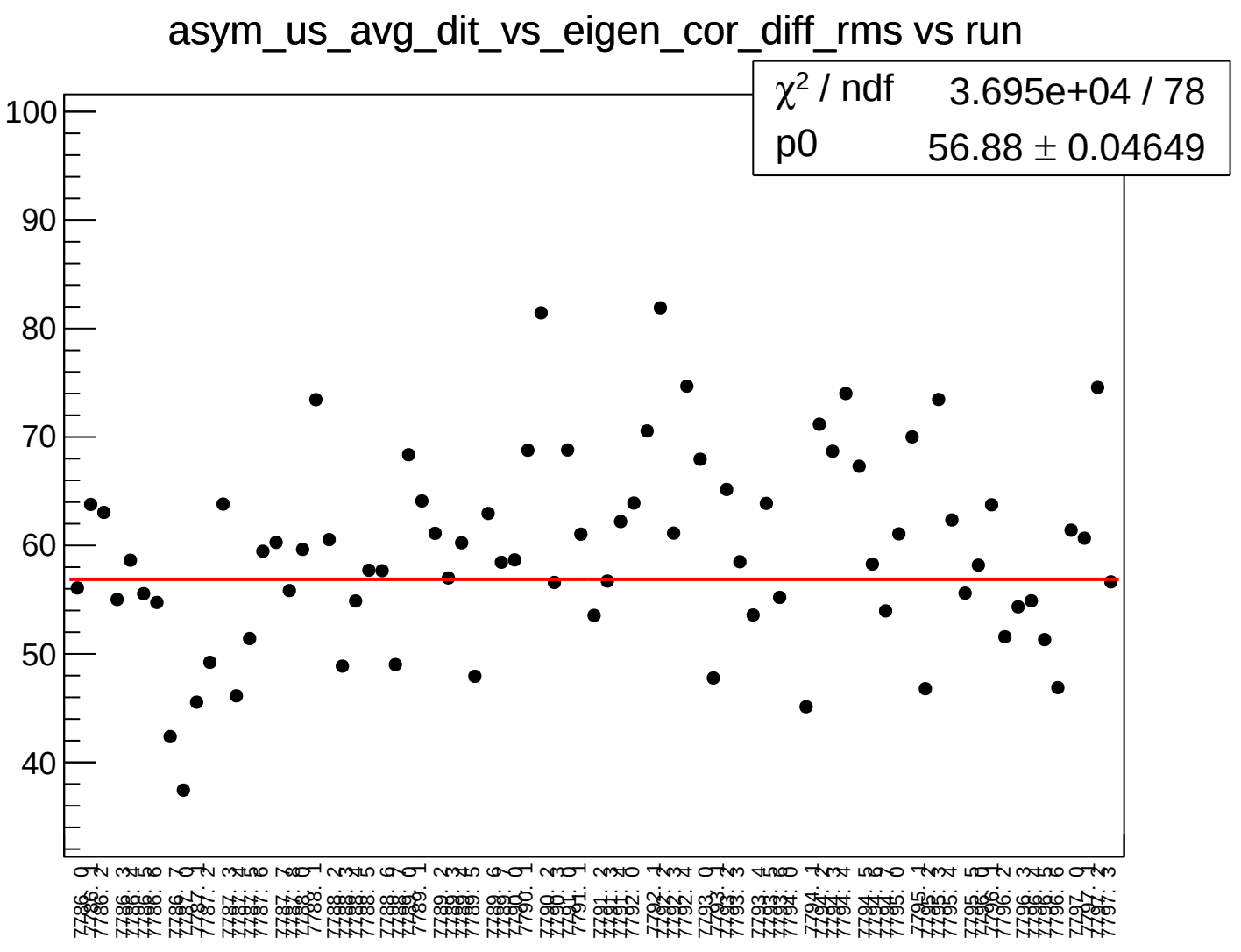

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.317e+05 / 78
p0 1.448e−10 ± 1.447e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

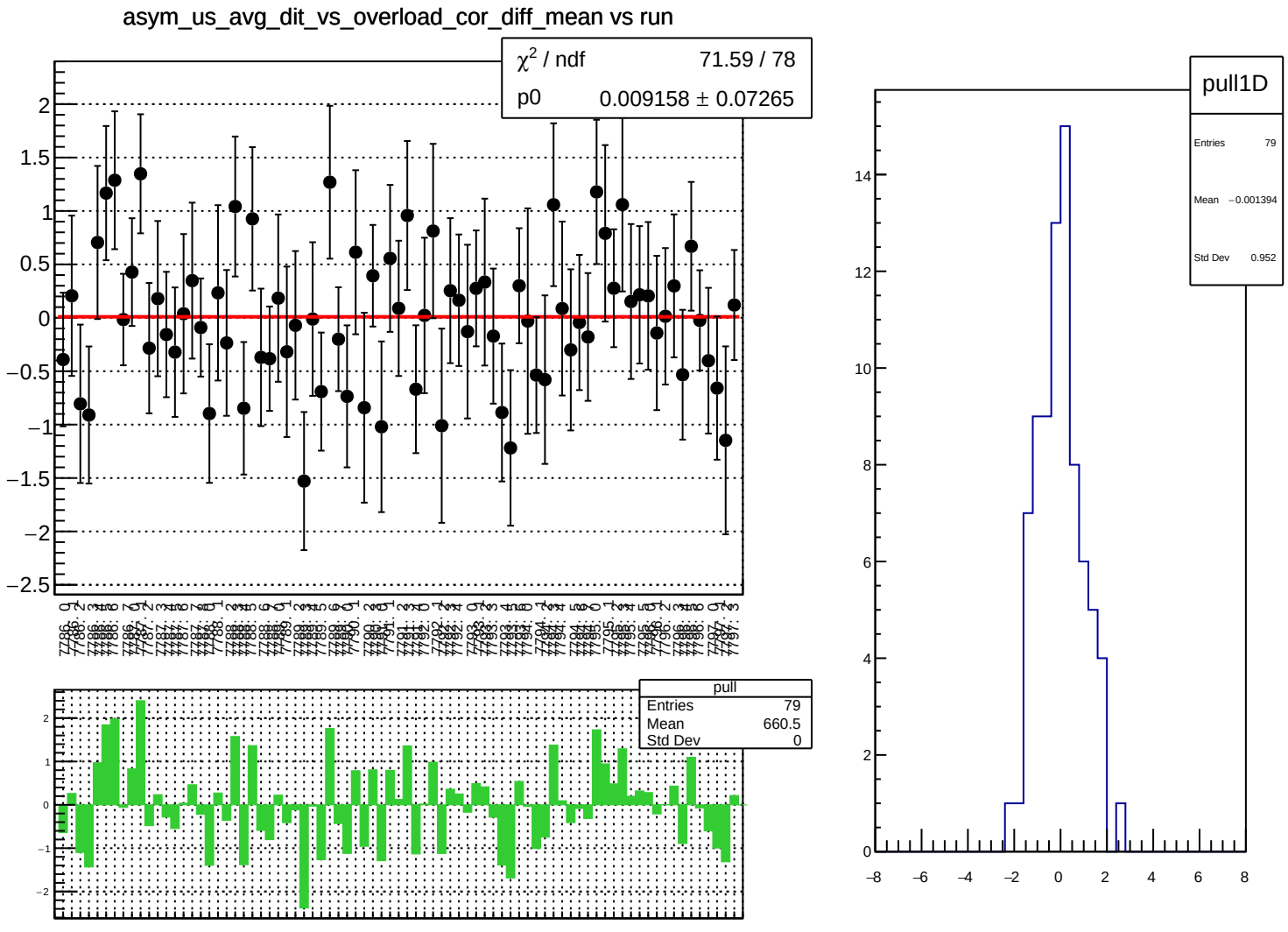

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.1 / 78
p0 0.04093 ± 0.06574
pull
Entries 79
Mean 225.7
Std Dev 0
pull1D
Entries 79
Mean −0.004364
Std Dev 0.9147

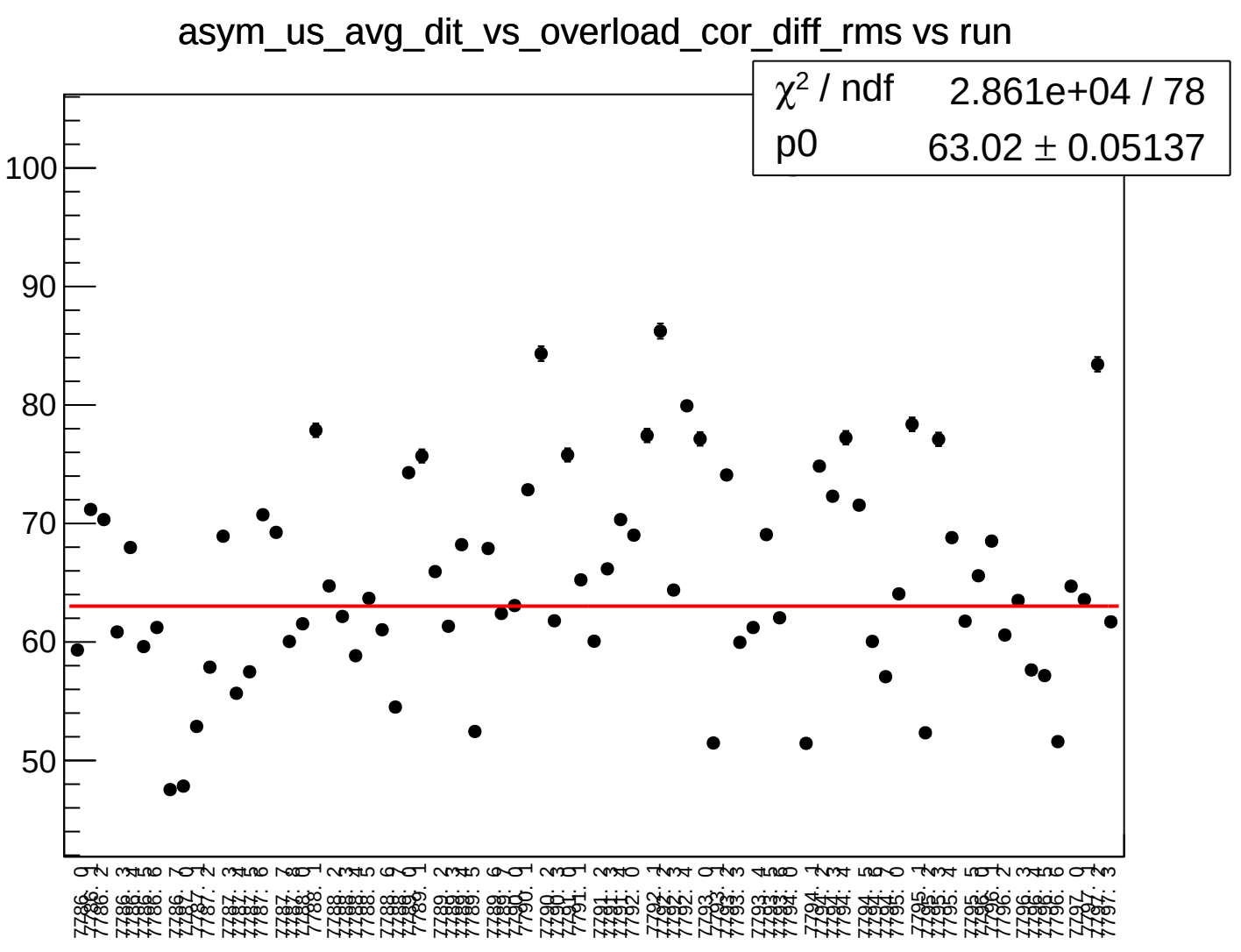

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.695e+04 / 78
p0 56.88 ± 0.04649
100
90
80
70
60
50
40

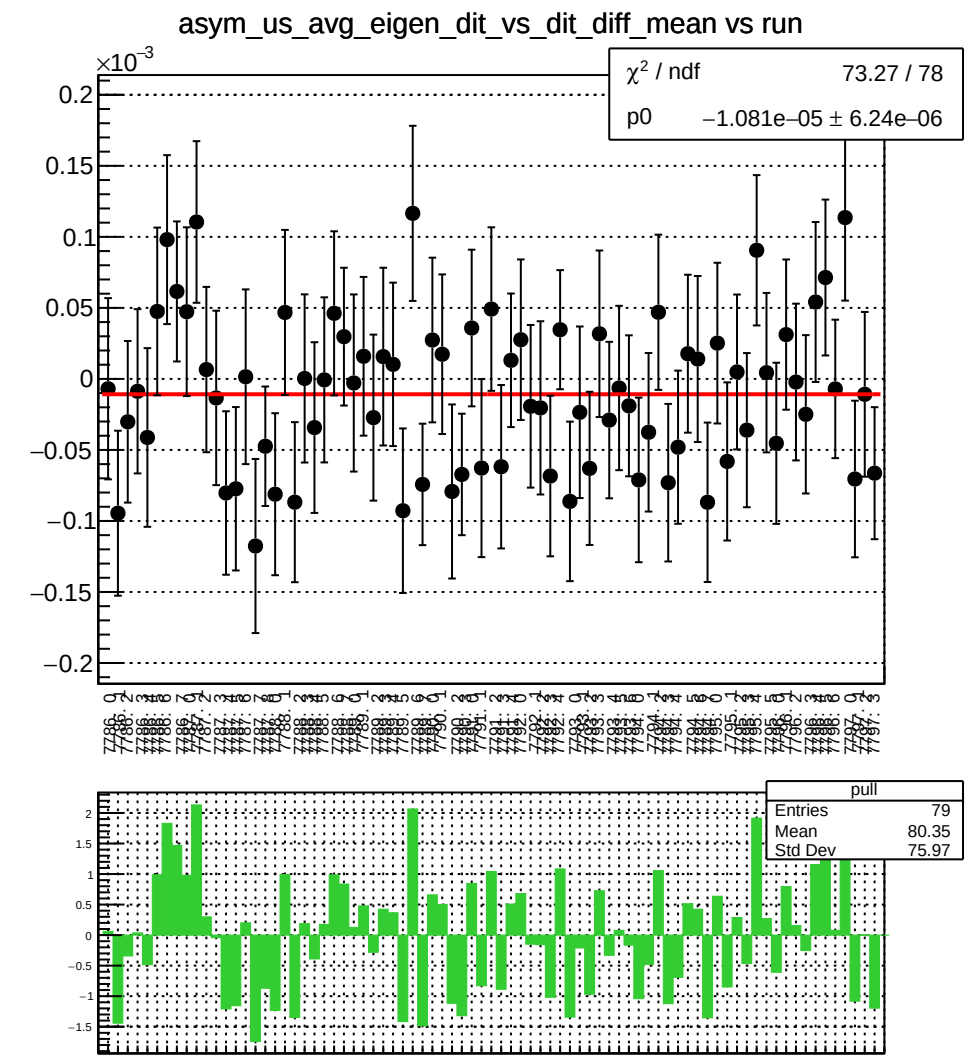

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.1 / 78
p0 0.04093 ± 0.06574
pull
Entries 79
Mean 225.7
Std Dev 0

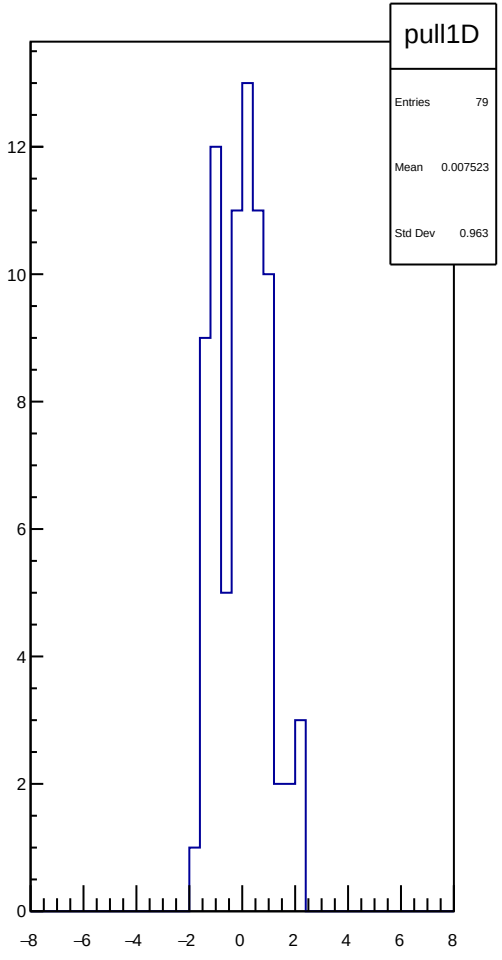

pull1D
Entries 79
Mean −0.004364
Std Dev 0.9147

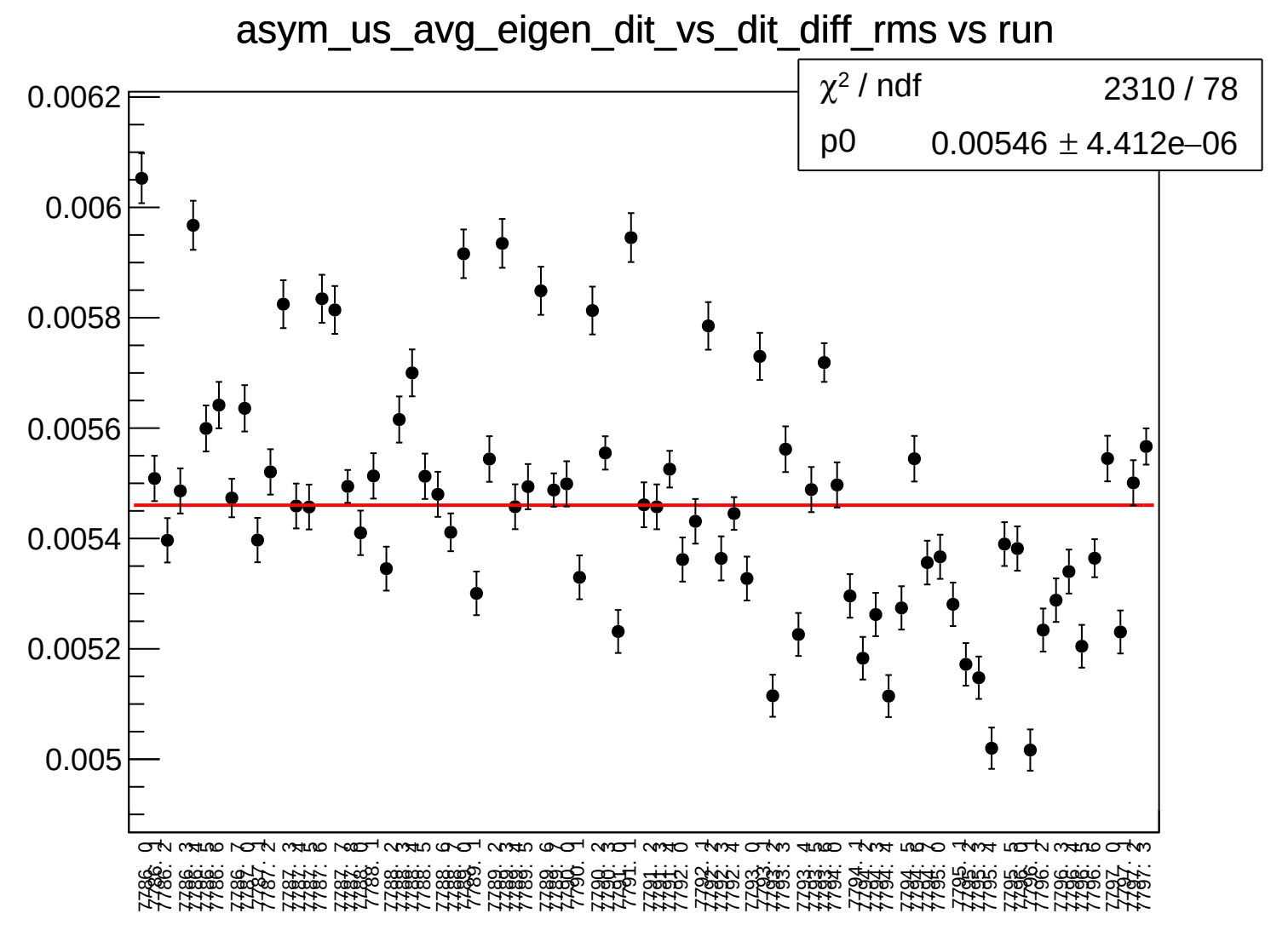

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.695e+04 / 78
p0 56.88 ± 0.04649
100
90
80
70
60
50
40

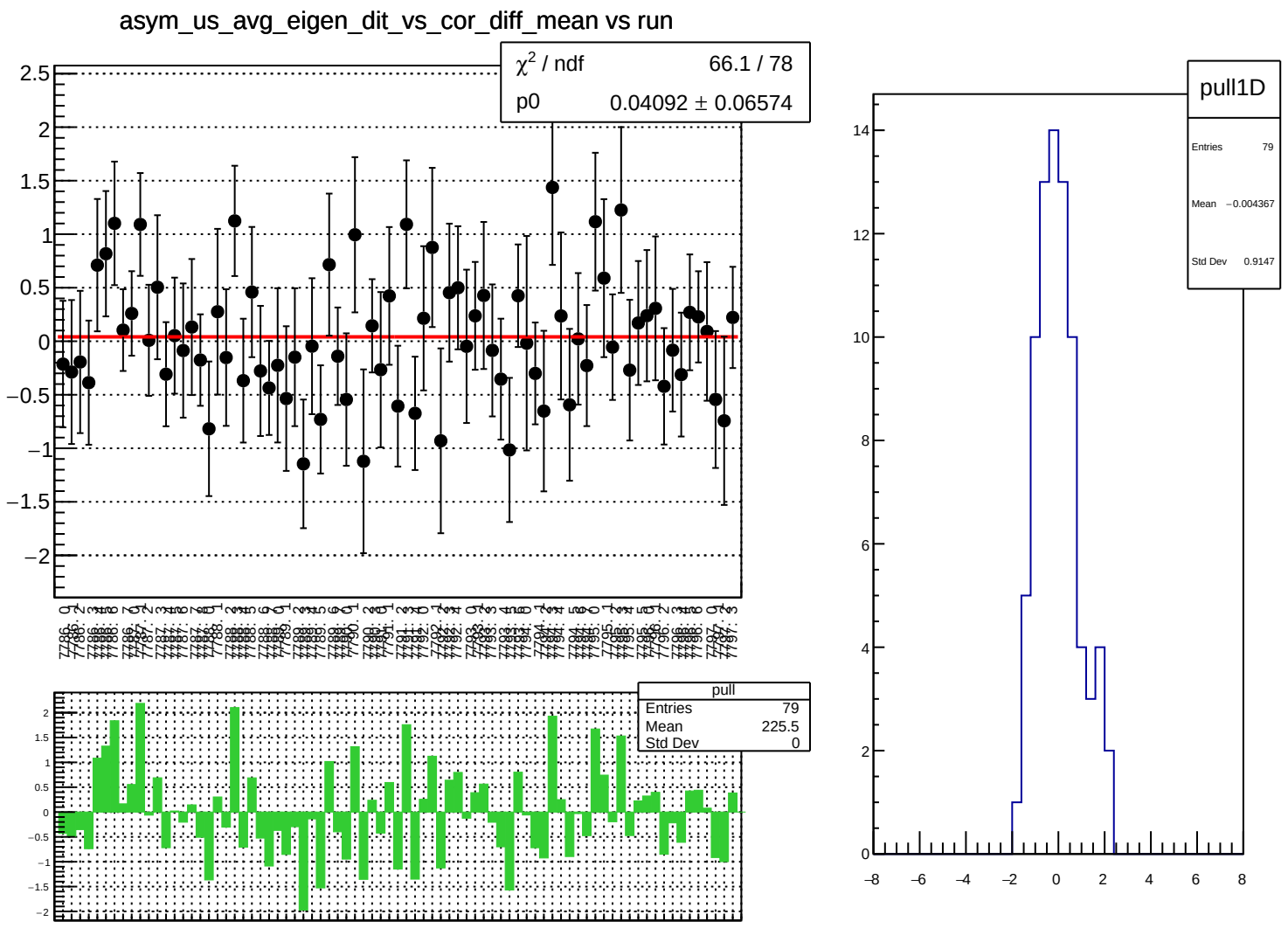

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 71.59 / 78
p0 0.009158 ± 0.07265
pull
Entries 79
Mean 660.5
Std Dev 0
pull1D
Entries 79
Mean −0.001394
Std Dev 0.952

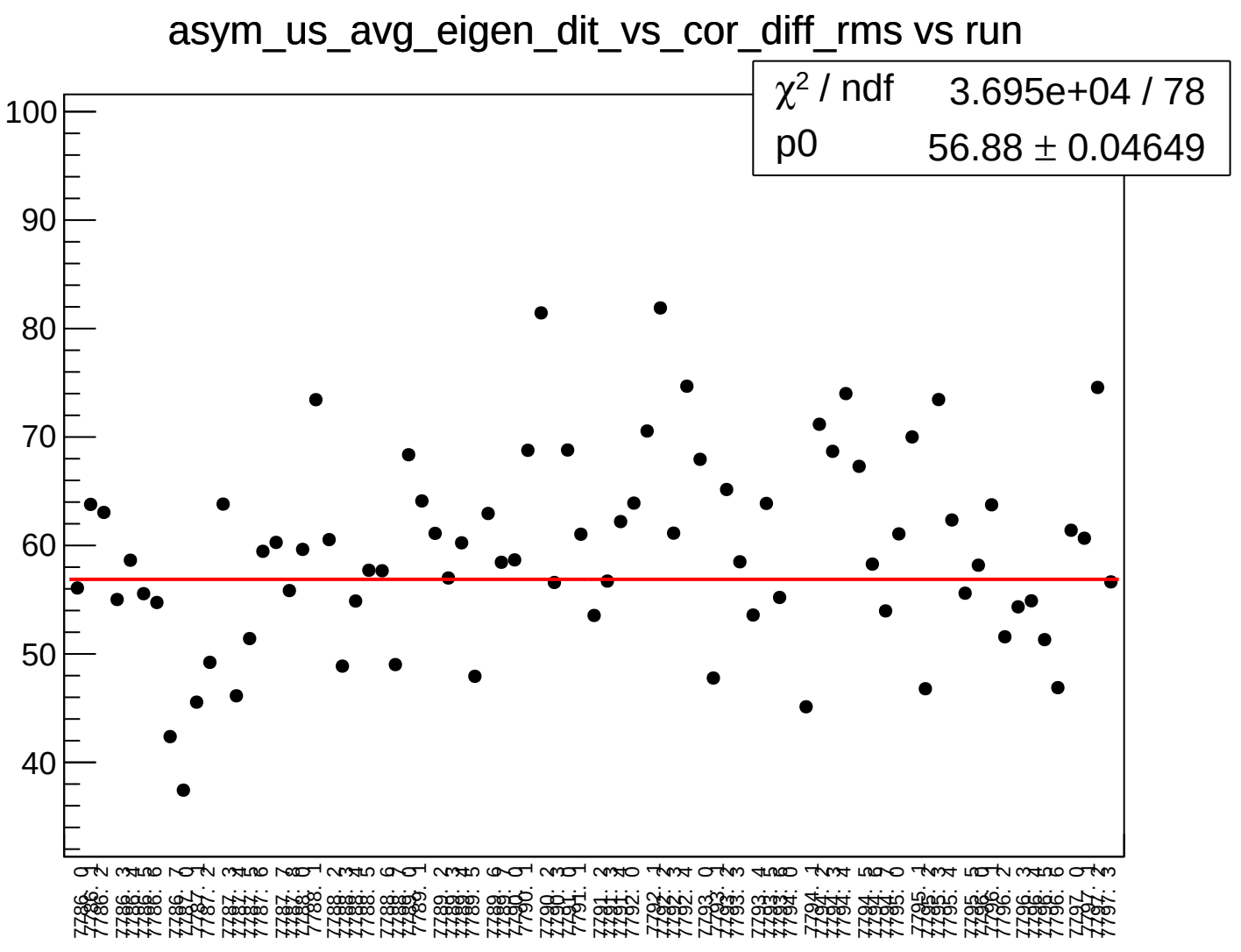

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.861e+04 / 78
p0 63.02 ± 0.05137
100
90
80
70
60
50

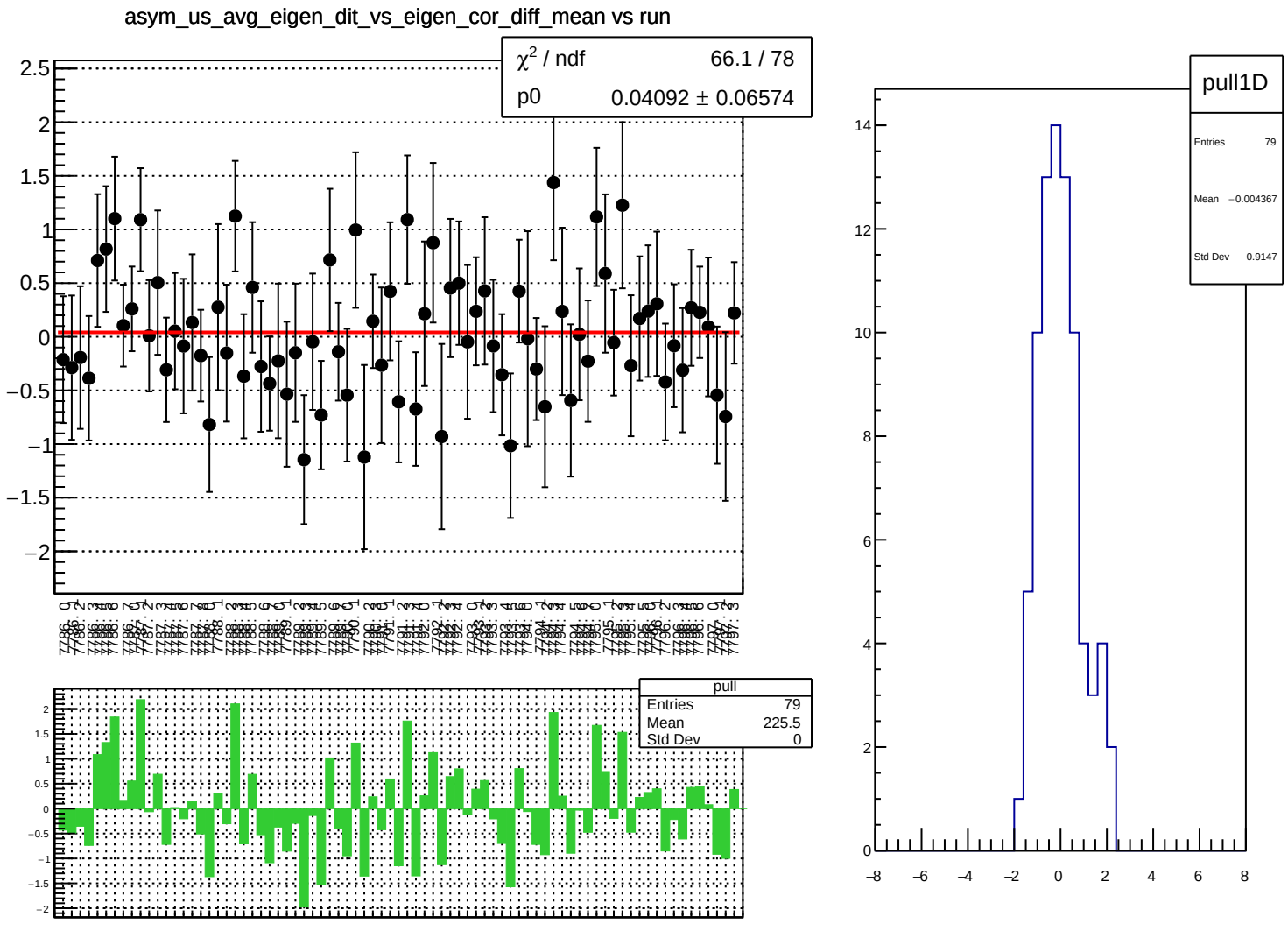

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.27 / 78
p0 −1.081e−05 ± 6.24e−06
pull
Entries 79
Mean 80.35
Std Dev 75.97

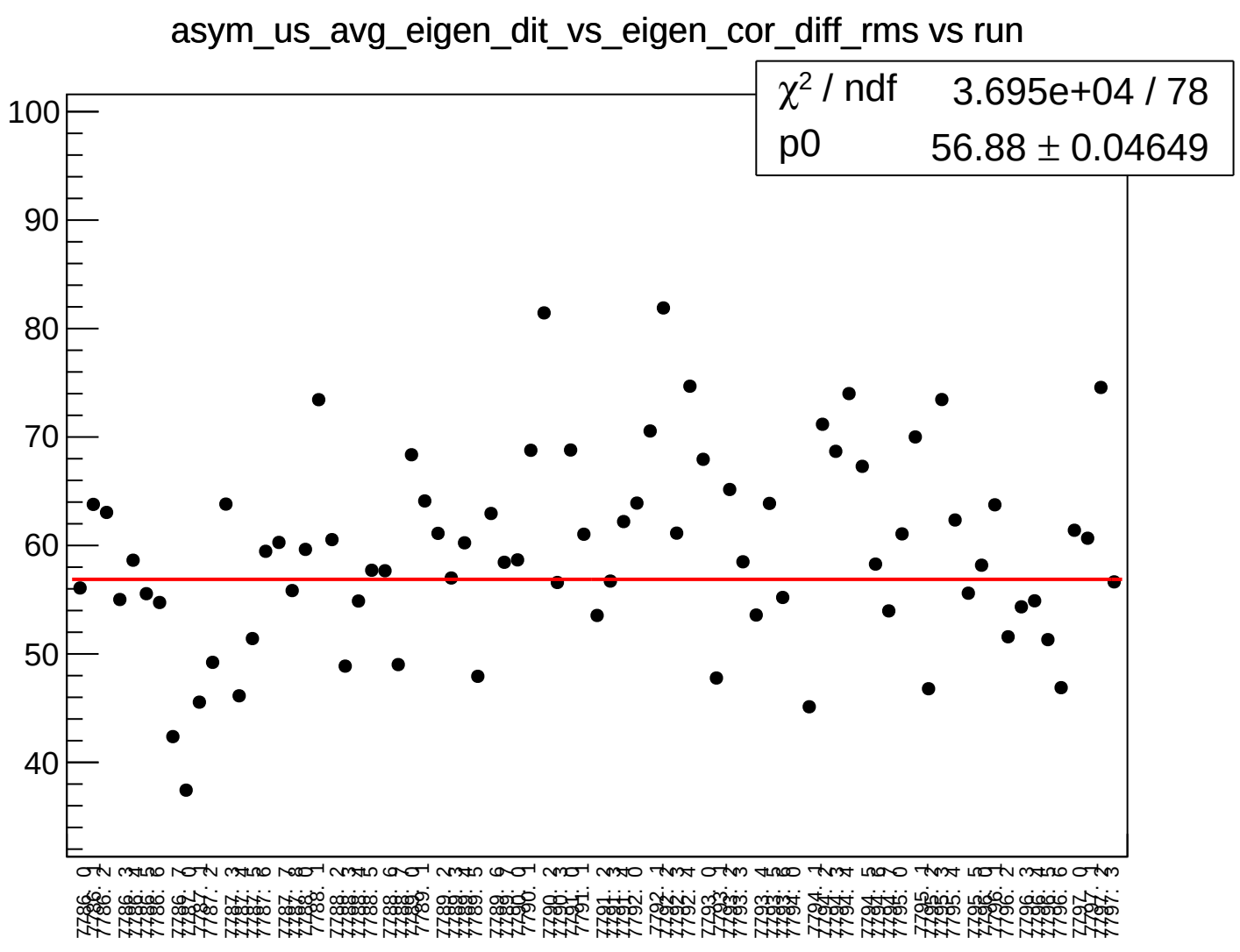

pull1D
Entries 79
Mean 0.007523
Std Dev 0.963

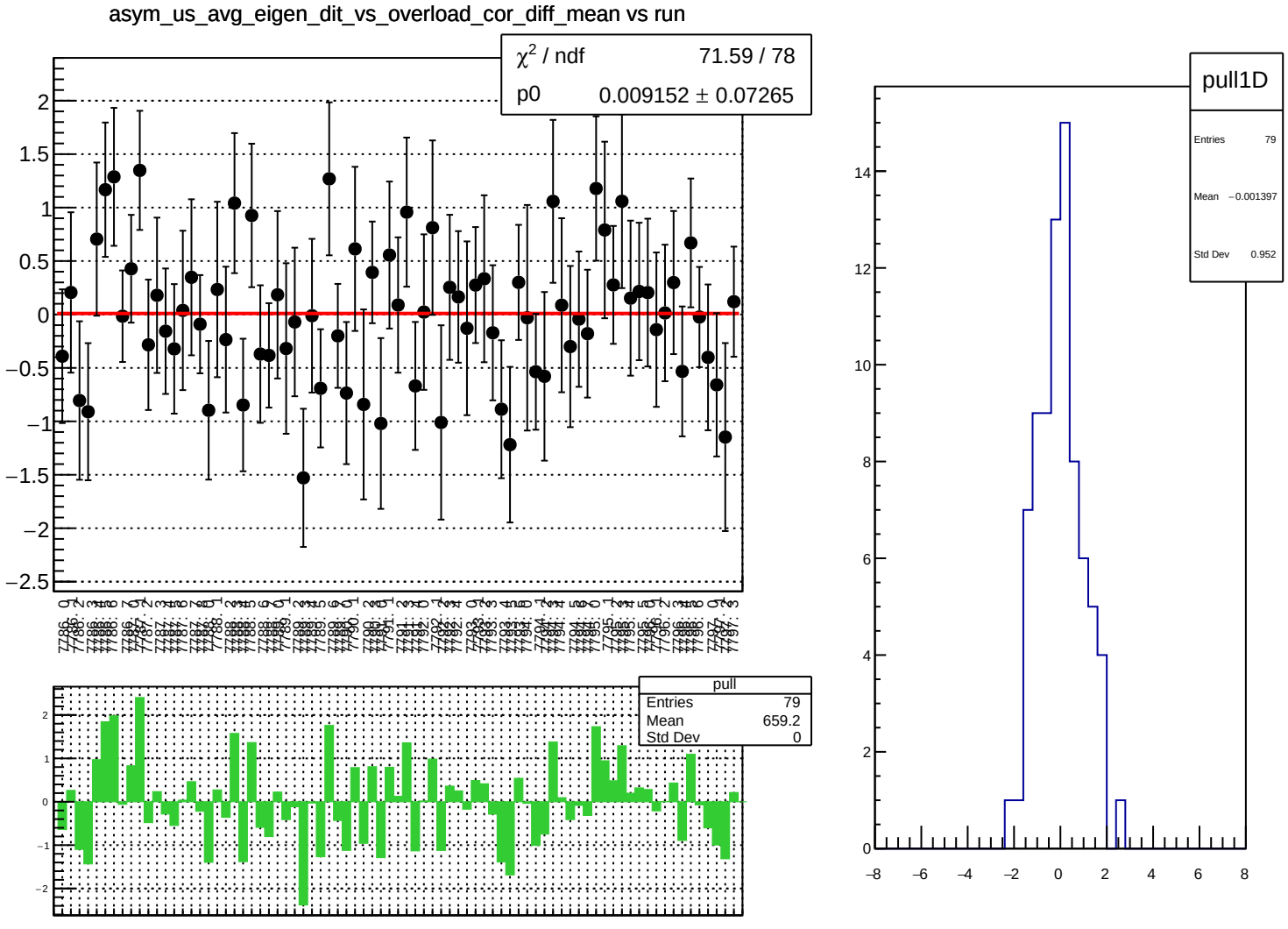

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2310 / 78
p0 0.00546 ± 4.412e–06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005

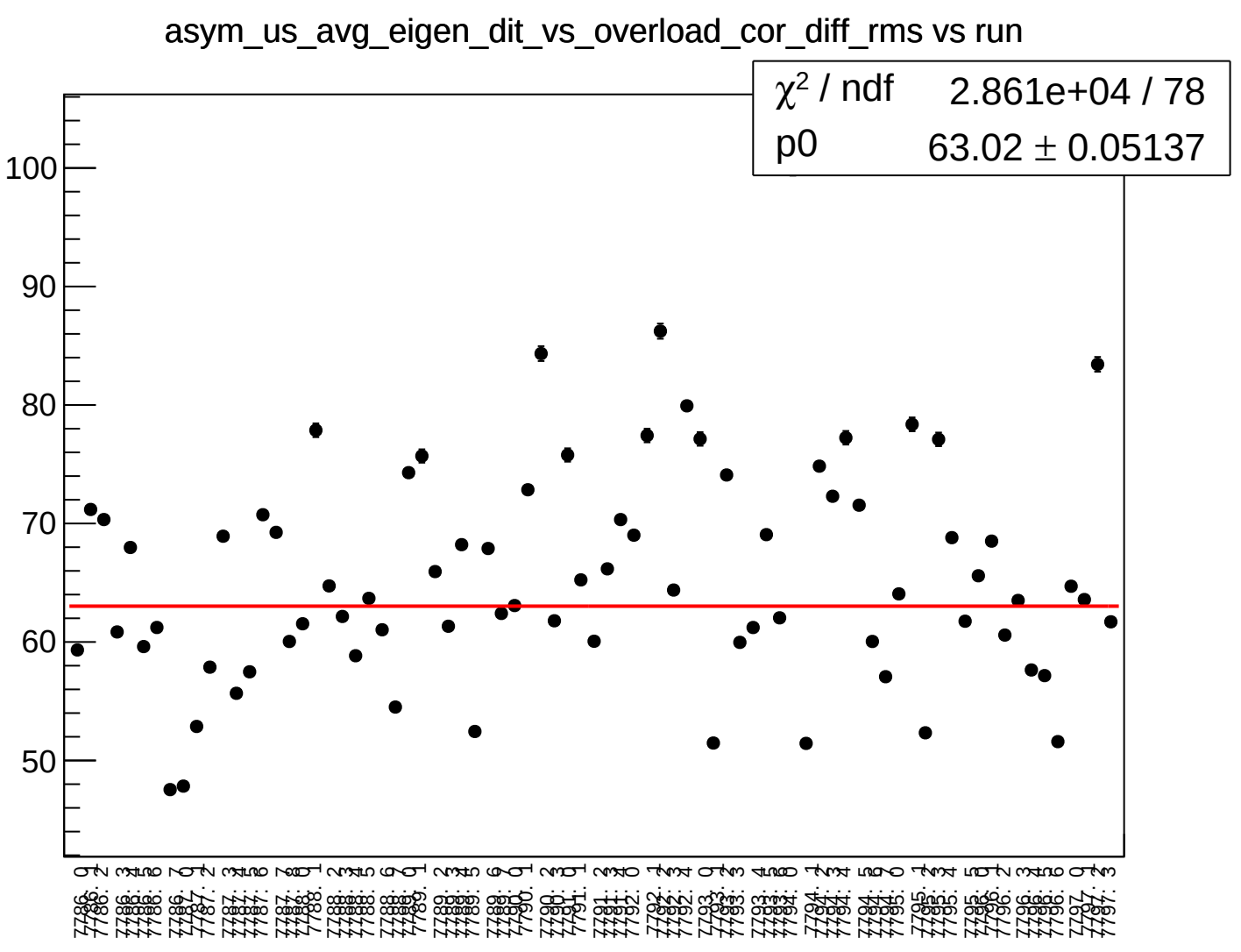

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.1 / 78
p0 0.04092 ± 0.06574
pull
Entries 79
Mean 225.5
Std Dev 0
pull1D
Entries 79
Mean −0.004367
Std Dev 0.9147

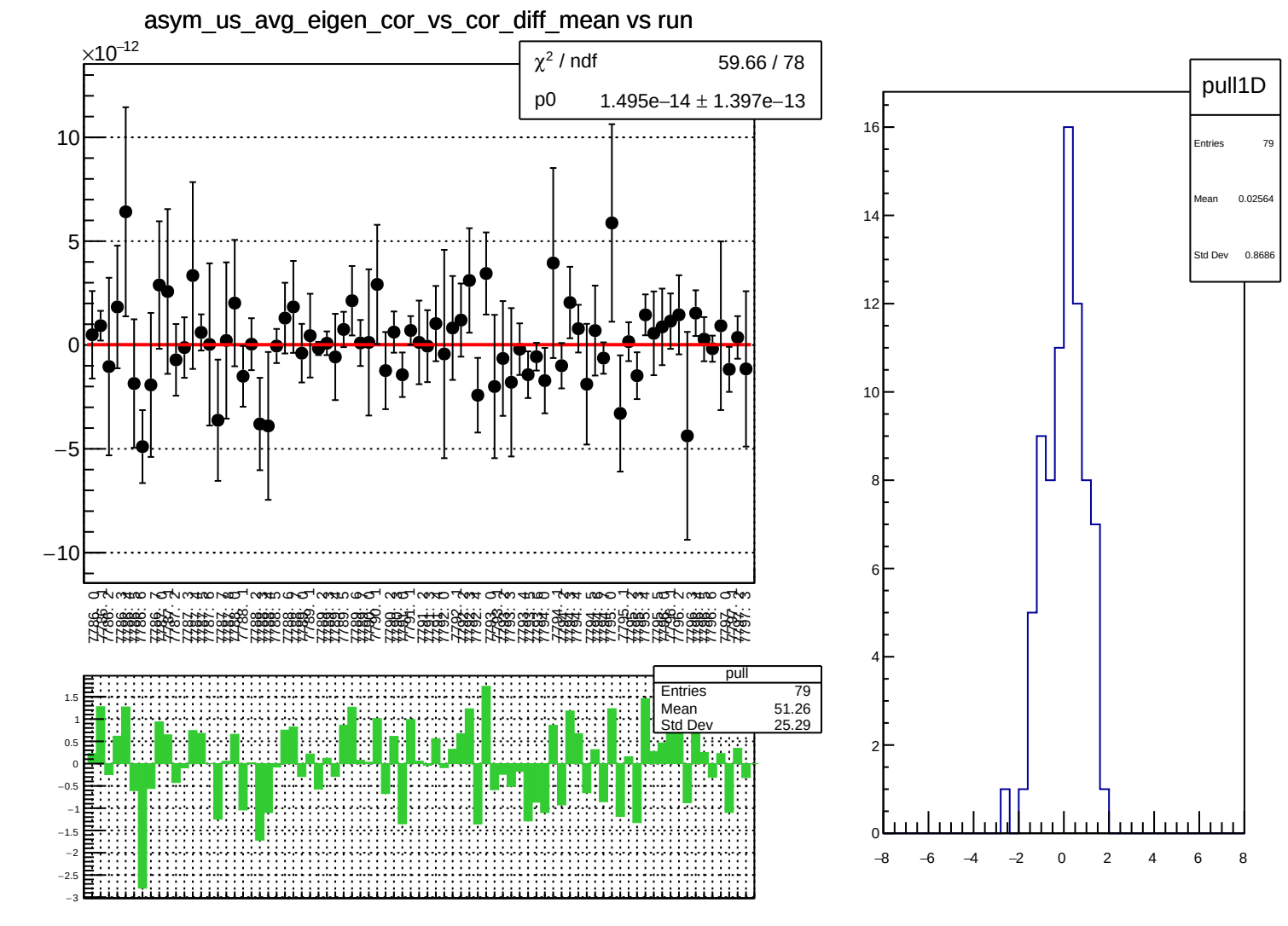

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.695e+04 / 78
p0 56.88 ± 0.04649
100
90
80
70
60
50
40

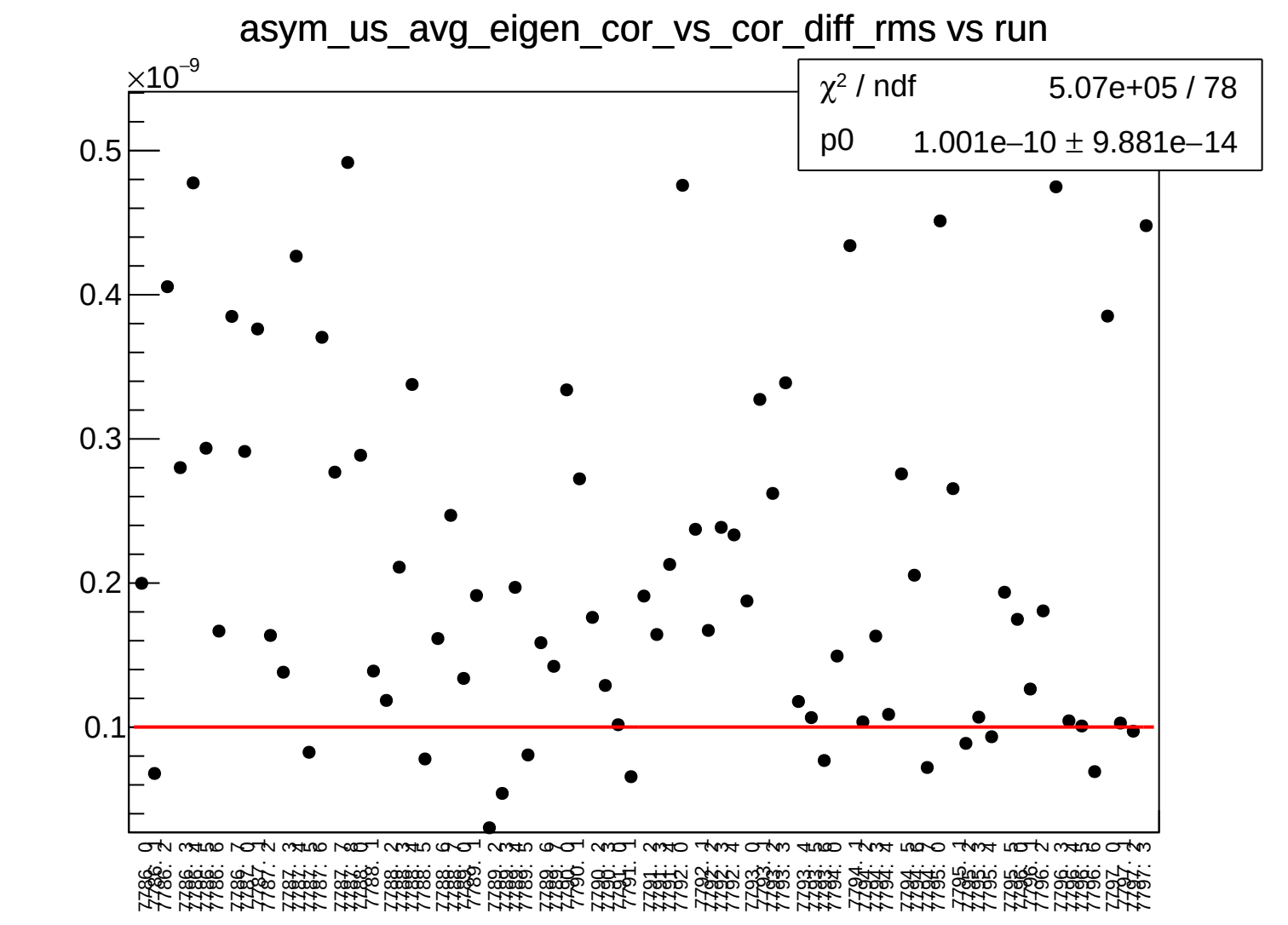

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.1 / 78
p0 0.04092 ± 0.06574
pull
Entries 79
Mean 225.5
Std Dev 0
pull1D
Entries 79
Mean −0.004367
Std Dev 0.9147

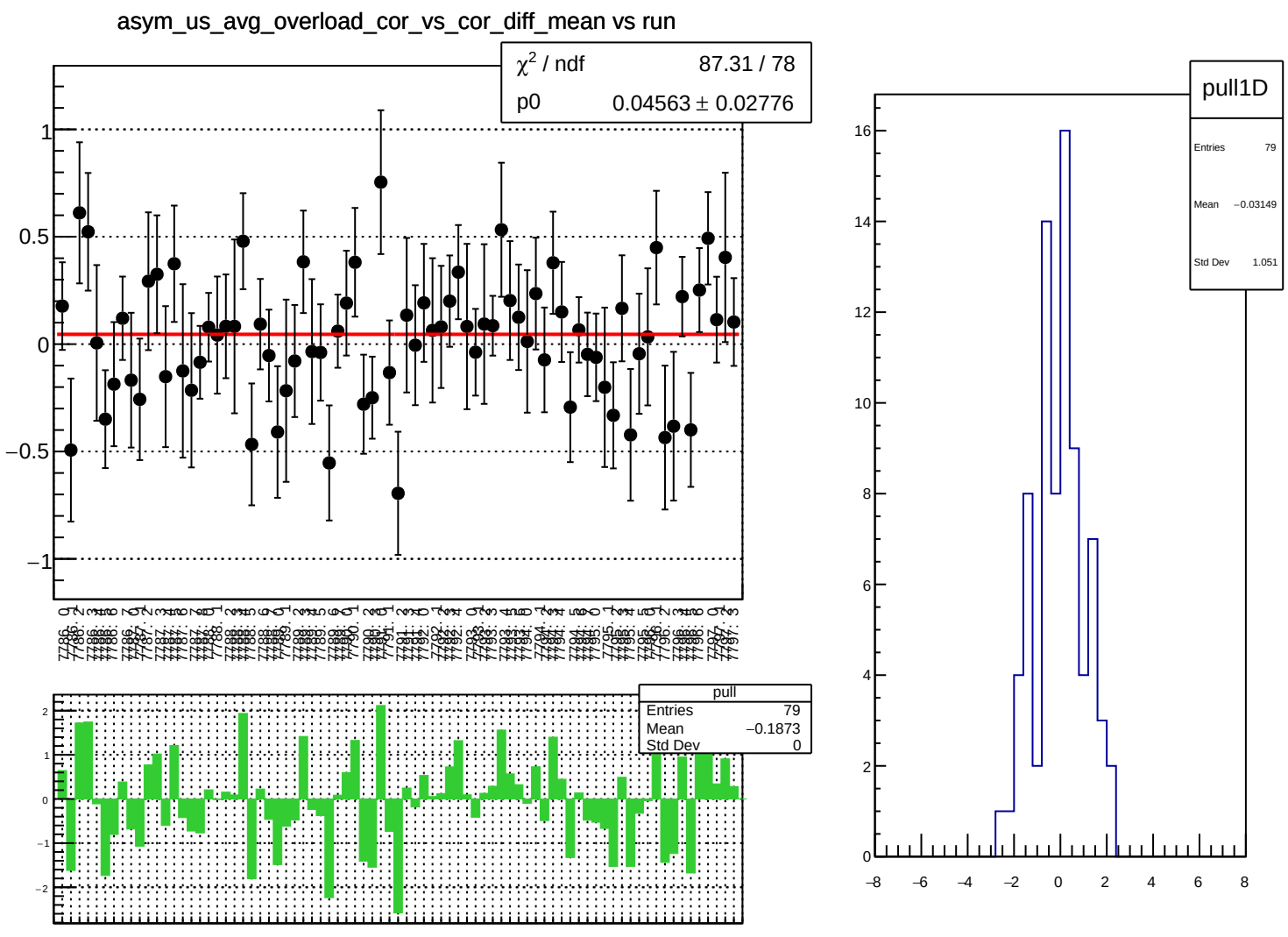

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.695e+04 / 78
p0 56.88 ± 0.04649
100
90
80
70
60
50
40

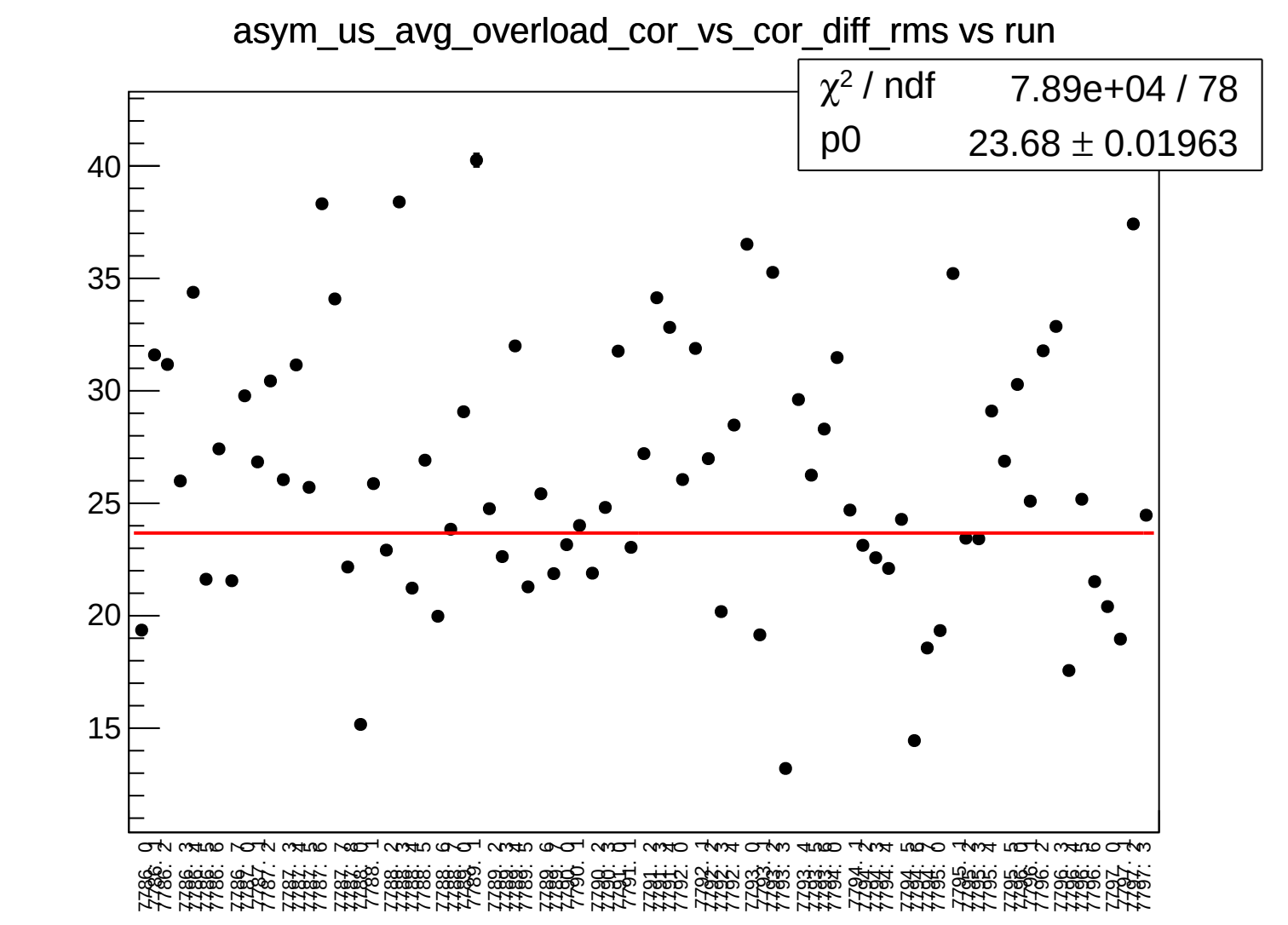

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 71.59 / 78
p0 0.009152 ± 0.07265
pull
Entries 79
Mean 659.2
Std Dev 0
pull1D
Entries 79
Mean −0.001397
Std Dev 0.952

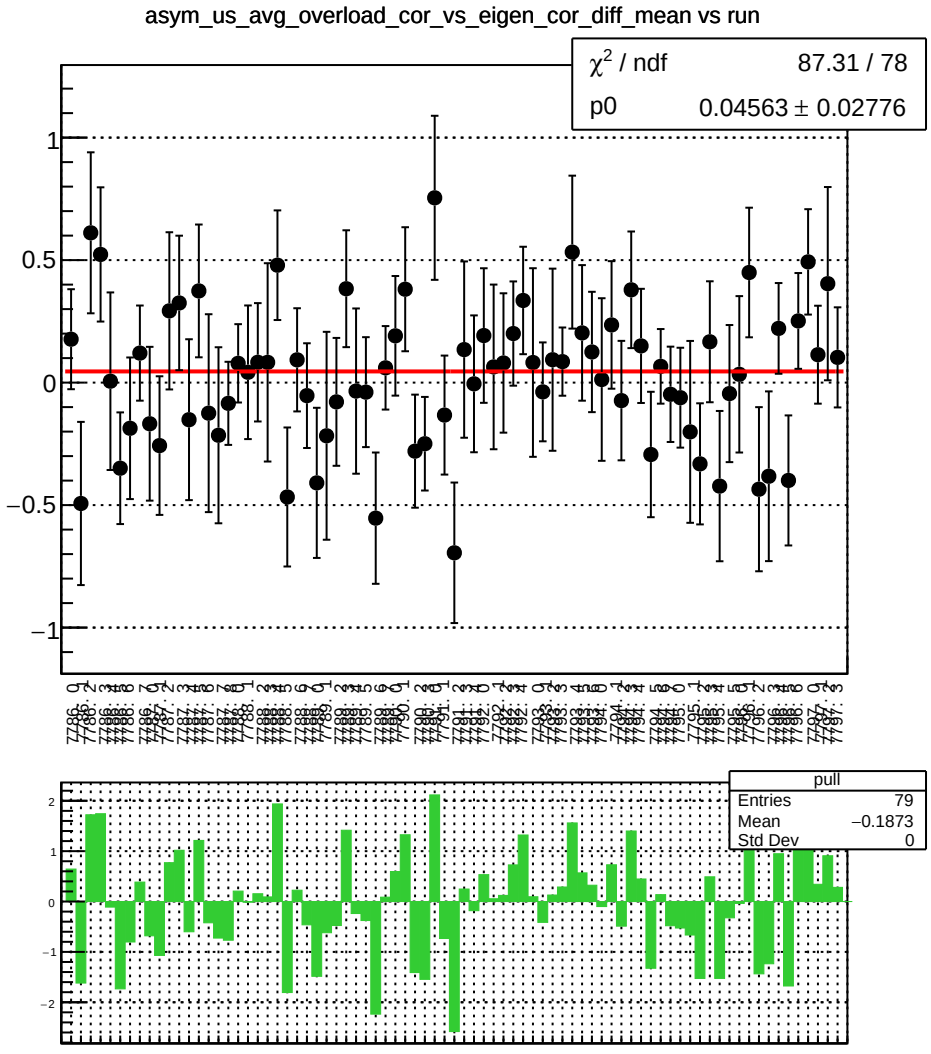

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.861e+04 / 78
p0 63.02 ± 0.05137
100
90
80
70
60
50

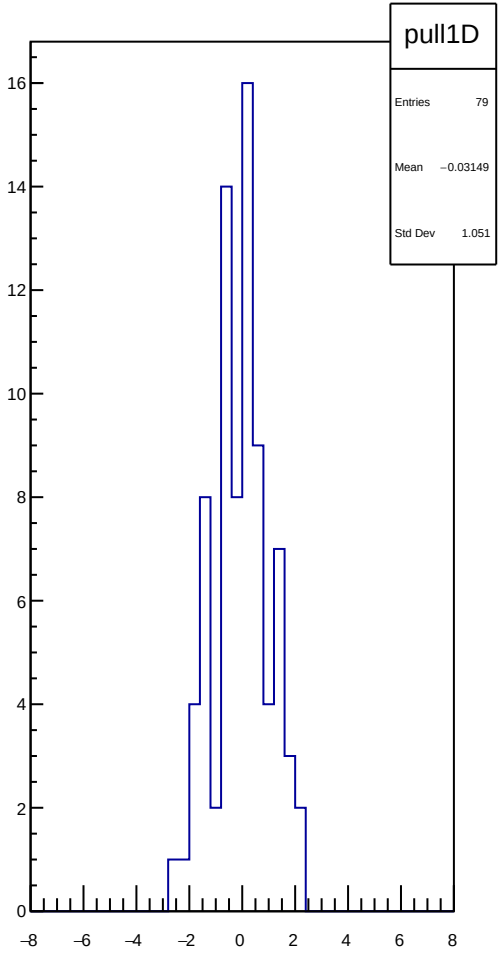

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.66 / 78
p0 1.495e−14 ± 1.397e−13
pull
Entries 79
Mean 51.26
Std Dev 25.29
pull1D
Entries 79
Mean 0.02564
Std Dev 0.8686

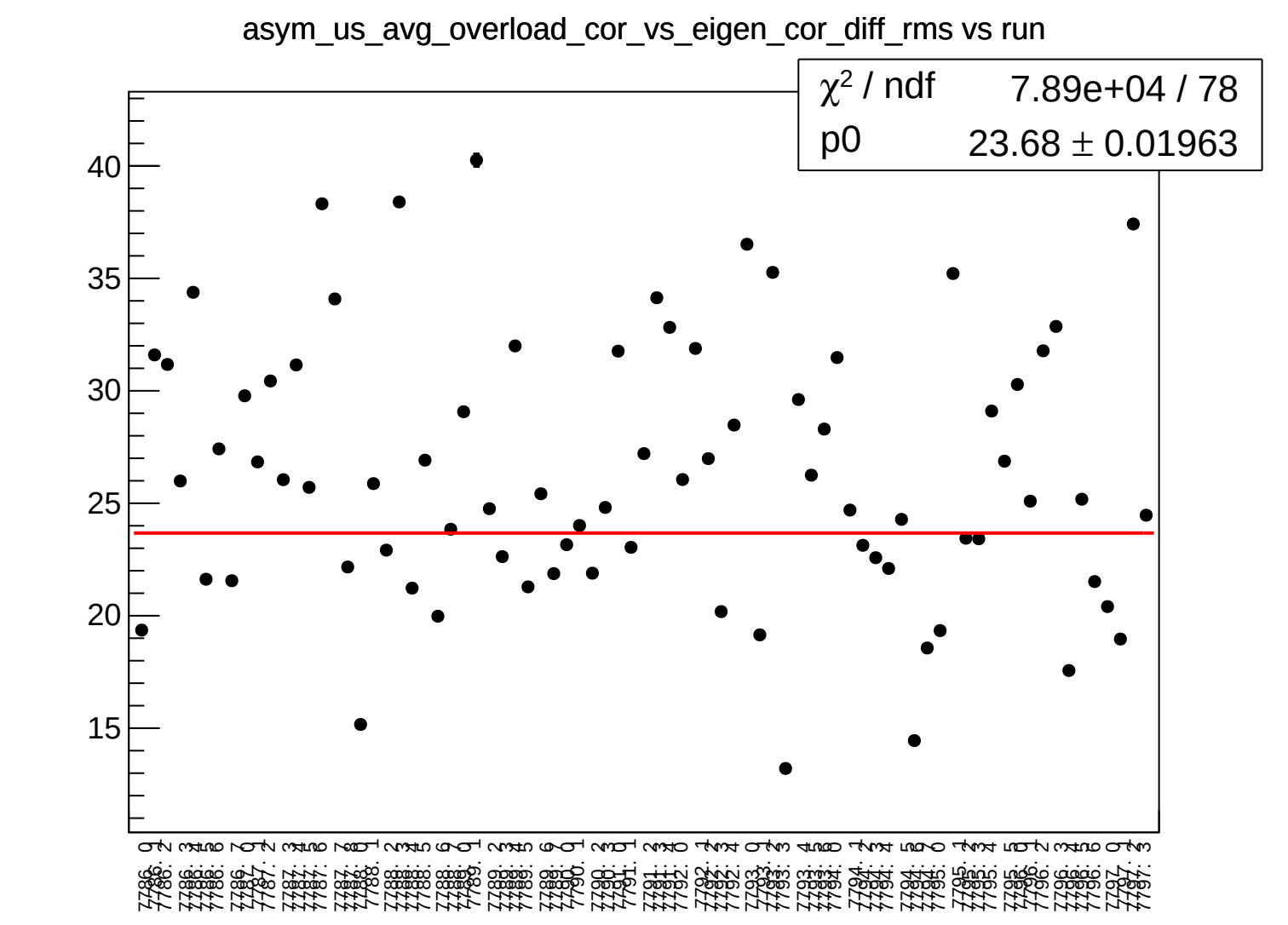

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.07e+05 / 78
p0 1.001e−10 ± 9.881e−14
0.5
0.4
0.3
0.2
0.1

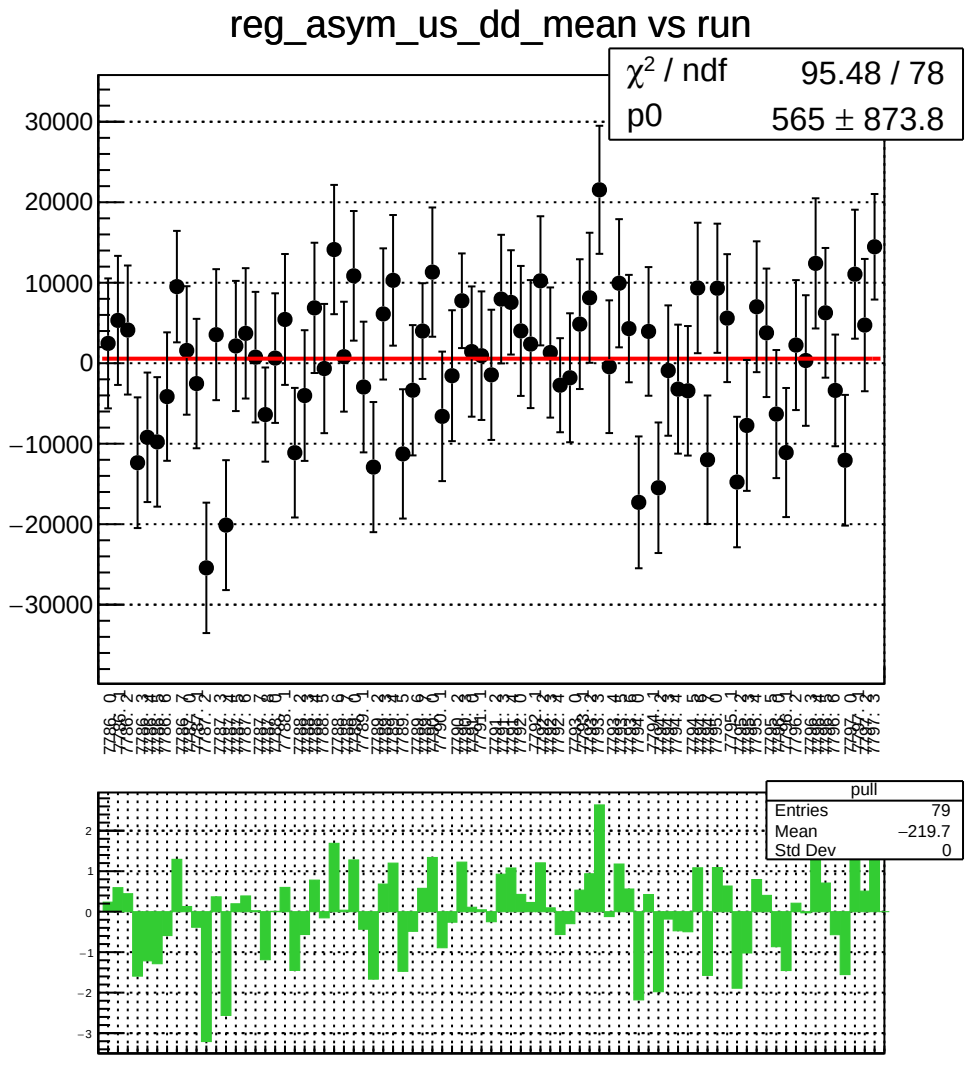

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 87.31 / 78
p0 0.04563 ± 0.02776
pull
Entries 79
Mean −0.1873
Std Dev 0
pull1D
Entries 79
Mean −0.03149
Std Dev 1.051

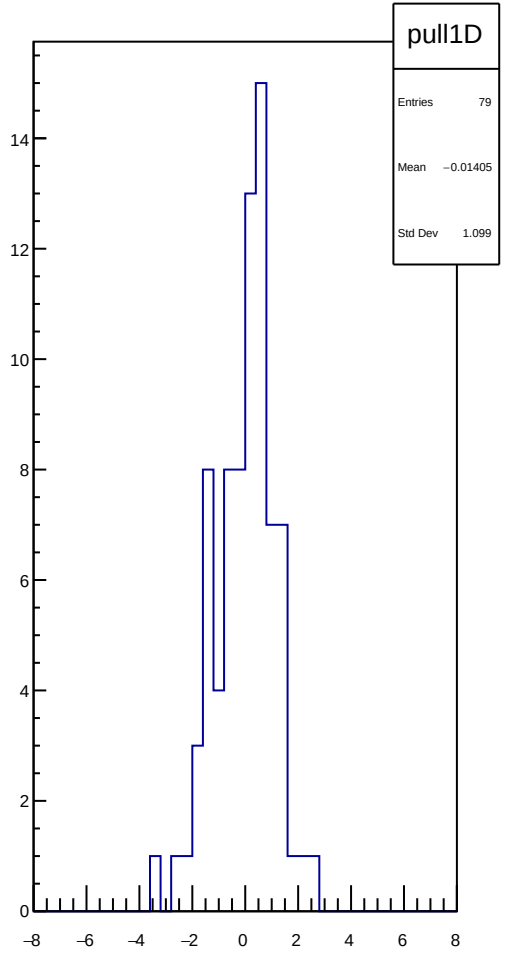

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 7.89e+04 / 78
p0 23.68 ± 0.01963
40
35
30
25
20
15

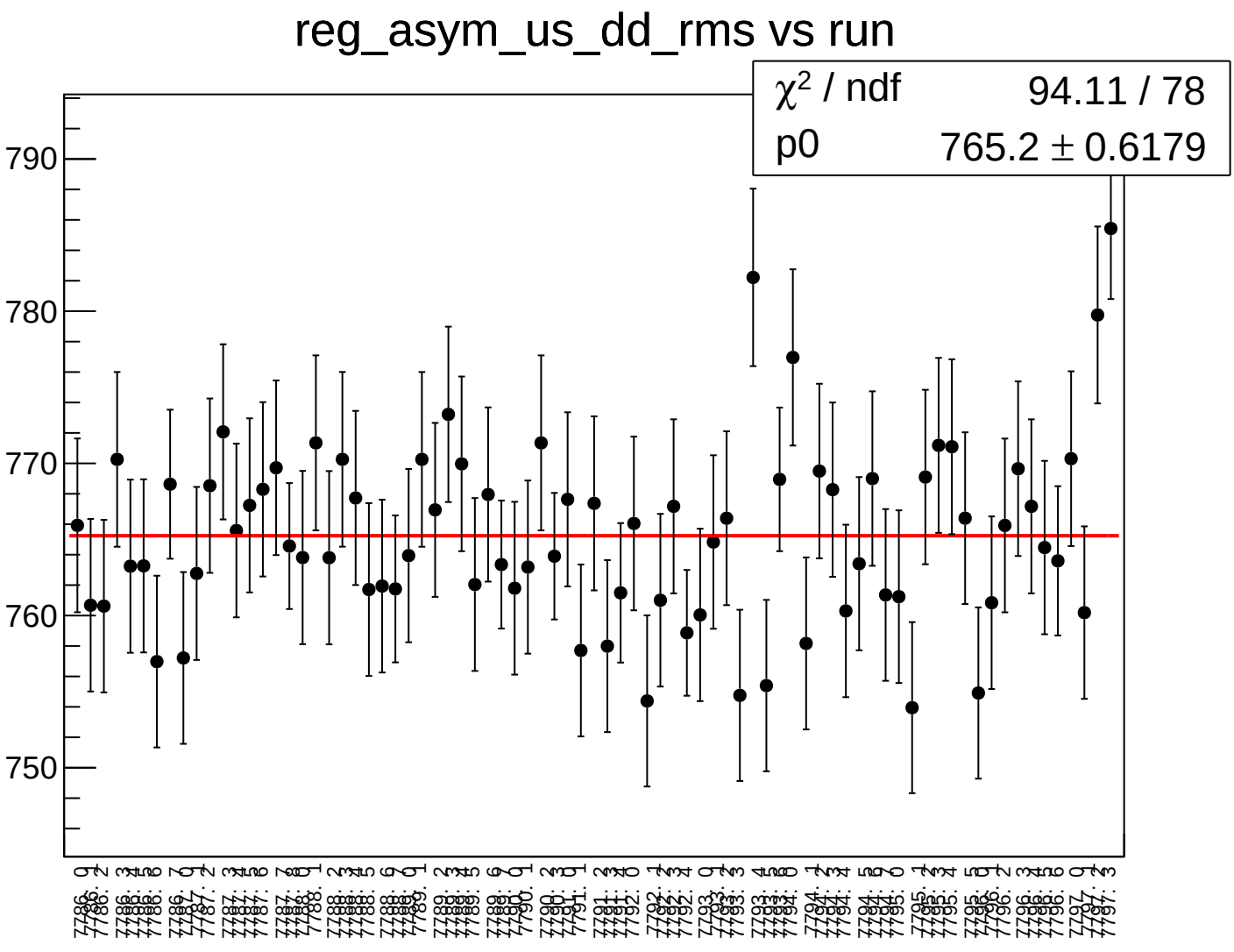

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.31 / 78
p0 0.04563 ± 0.02776
pull
Entries 79
Mean −0.1873
Std Dev 0

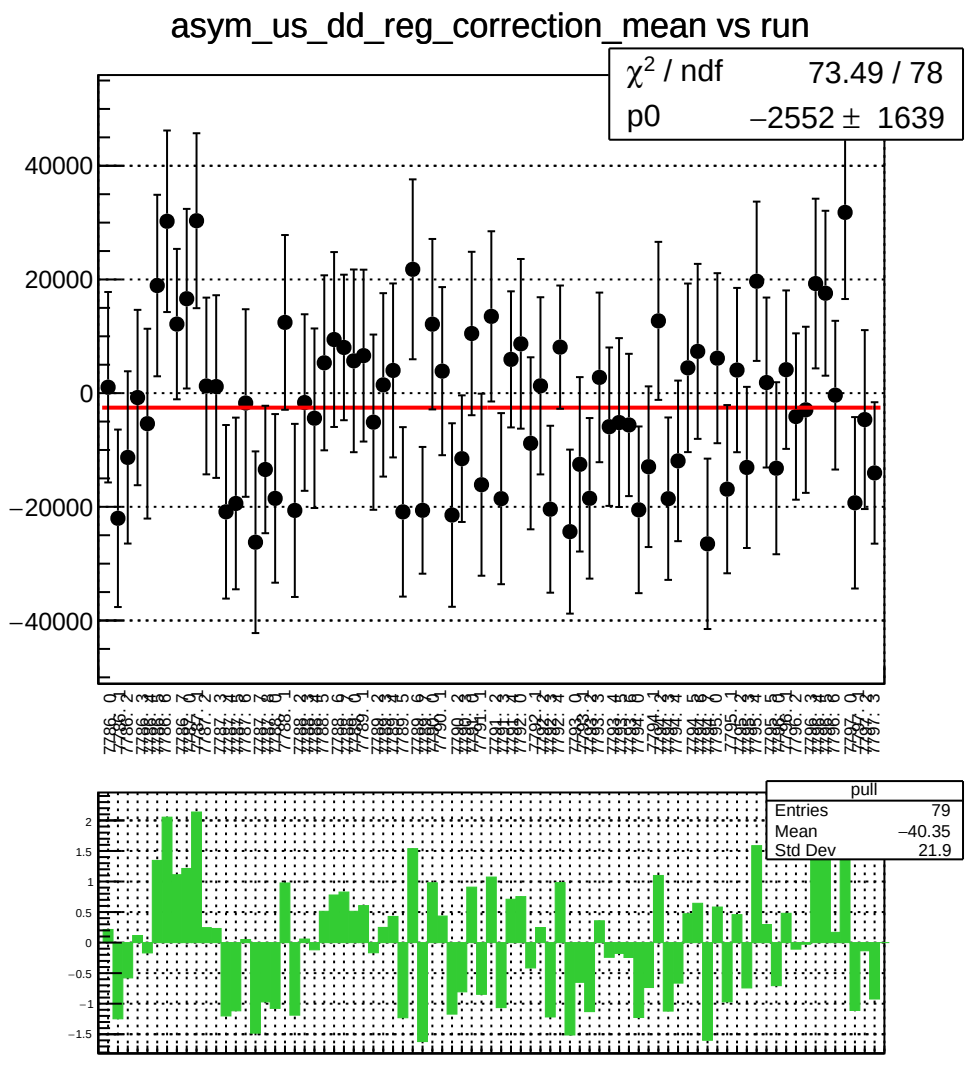

pull1D
Entries 79
Mean −0.03149
Std Dev 1.051

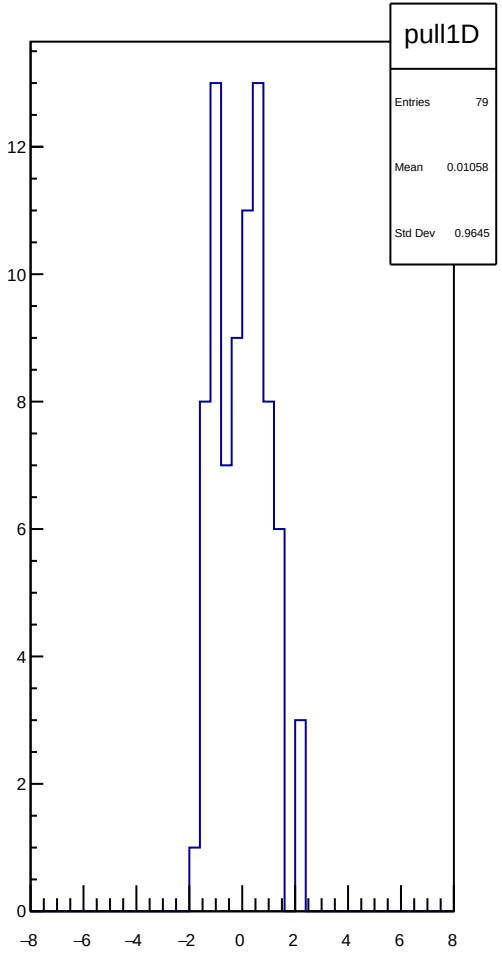

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.89e+04 / 78
p0 23.68 ± 0.01963
40
35
30
25
20
15

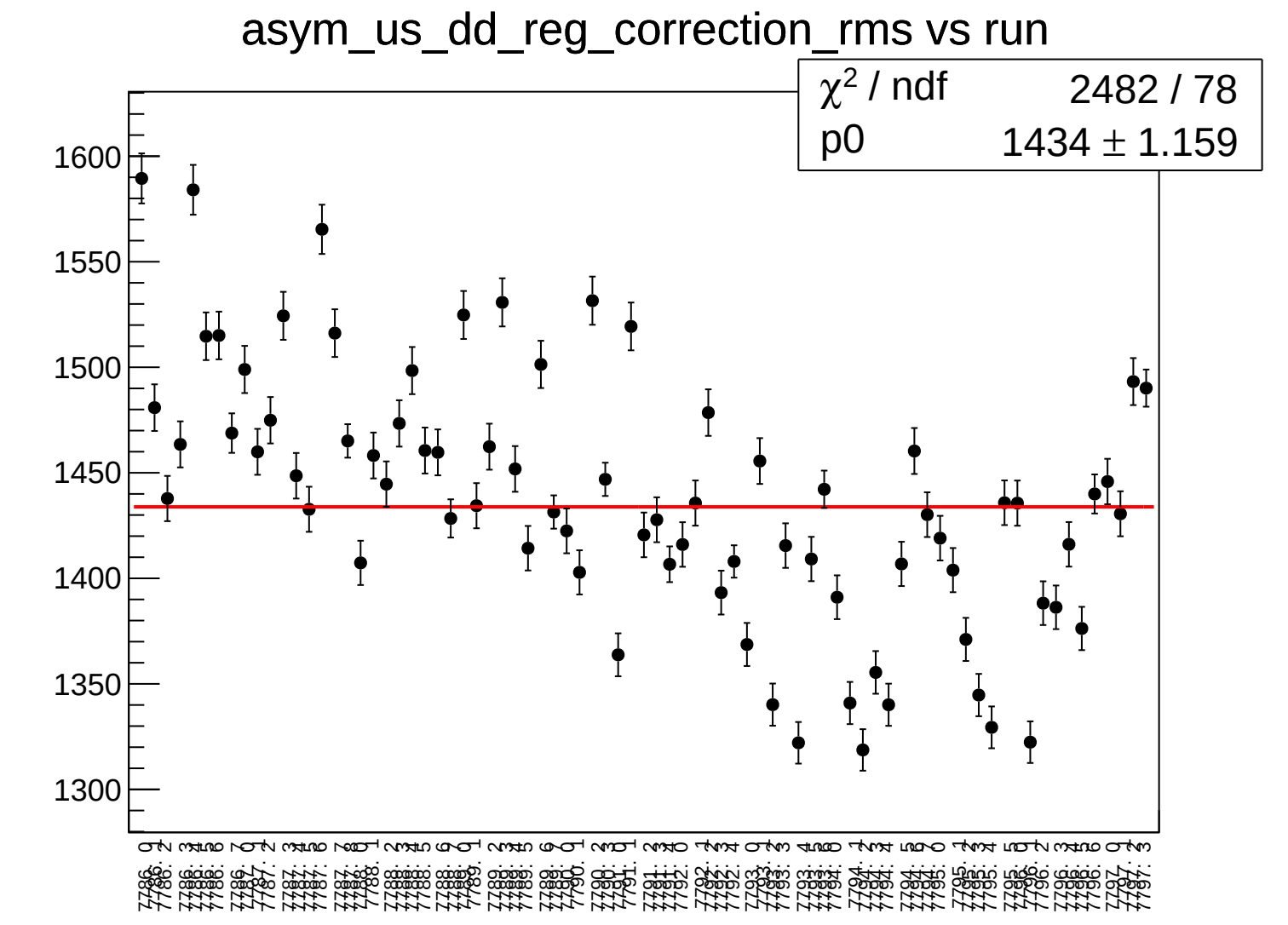

reg_asym_us_dd_mean vs run
χ² / ndf 95.48 / 78
p0 565 ± 873.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −219.7
Std Dev 0
2
1
0
−1
−2
−3

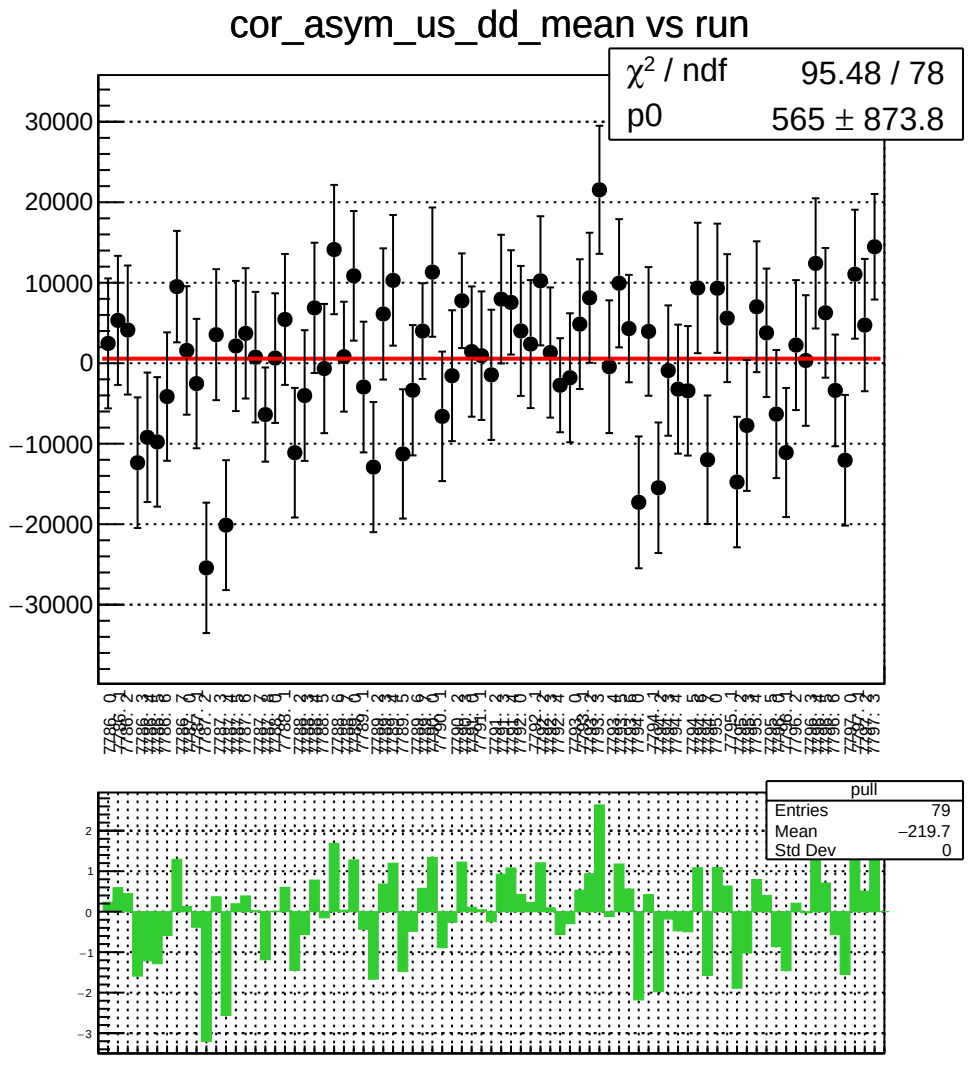

pull1D
Entries 79
Mean −0.01405
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

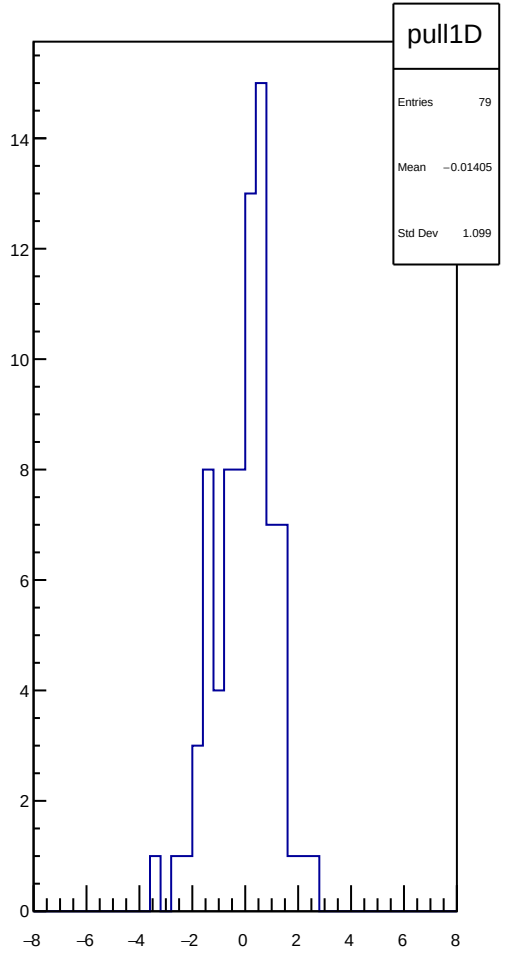

reg_asym_us_dd_rms vs run
χ^2 / ndf 94.11 / 78
p0 765.2 ± 0.6179
790
780
770
760
750

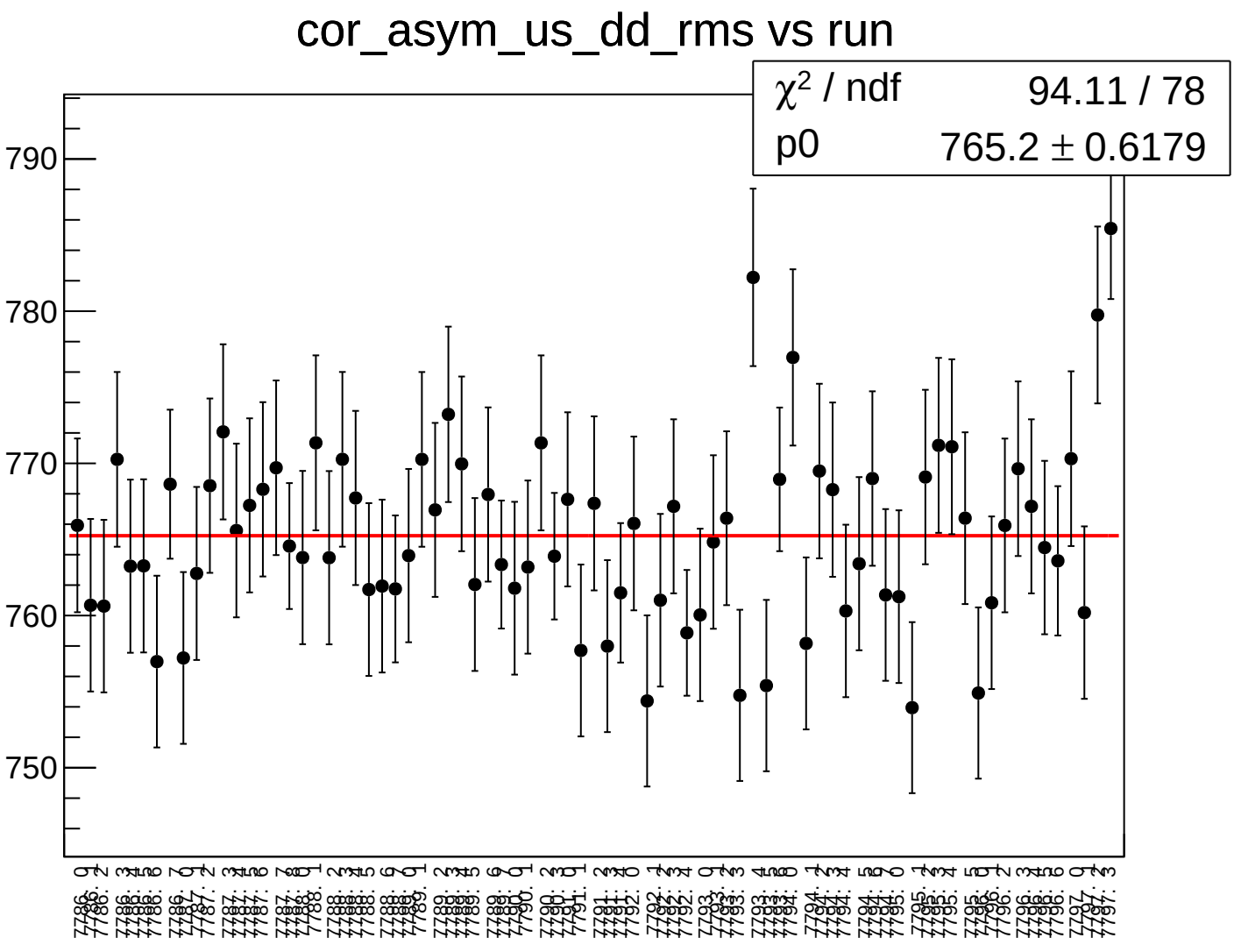

asym_us_dd_reg_correction_mean vs run
χ² / ndf 73.49 / 78
p0 −2552 ± 1639
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −40.35
Std Dev 21.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

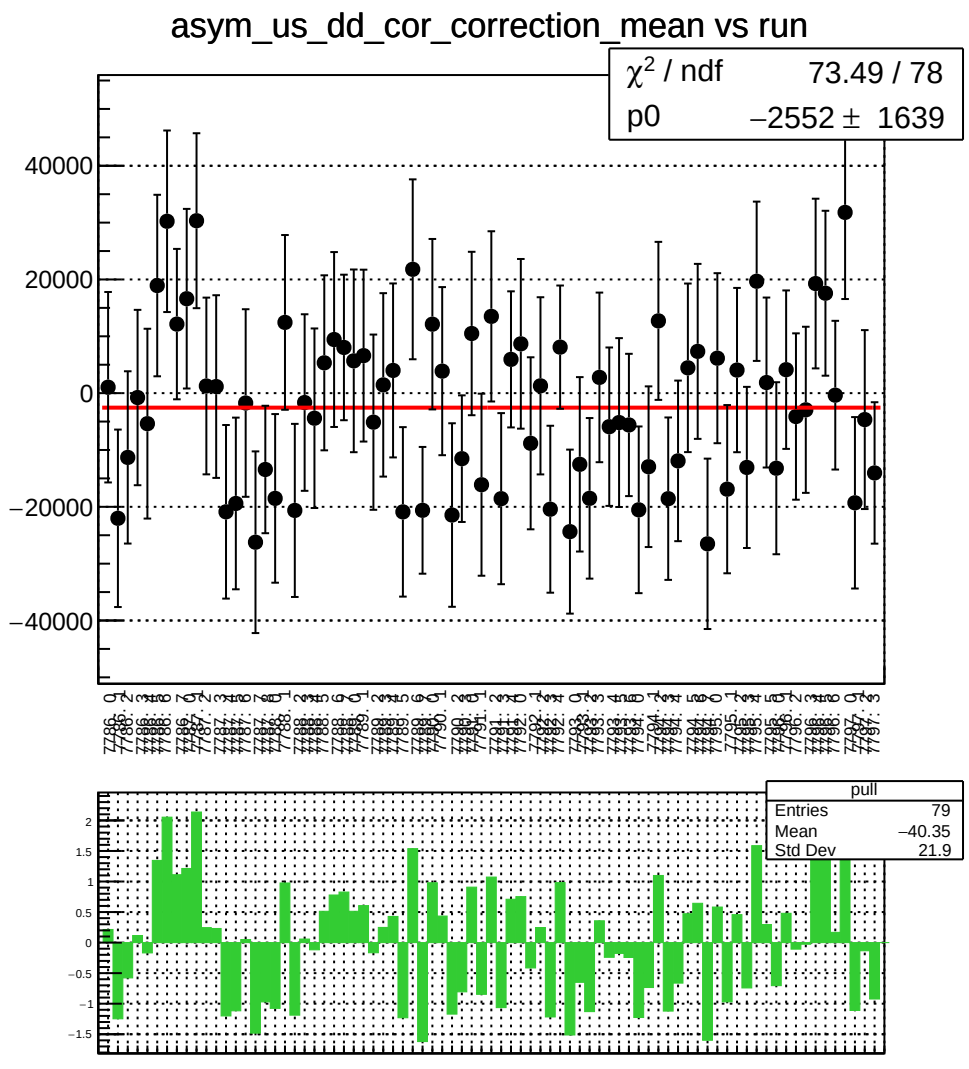

pull1D
Entries 79
Mean 0.01058
Std Dev 0.9645
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

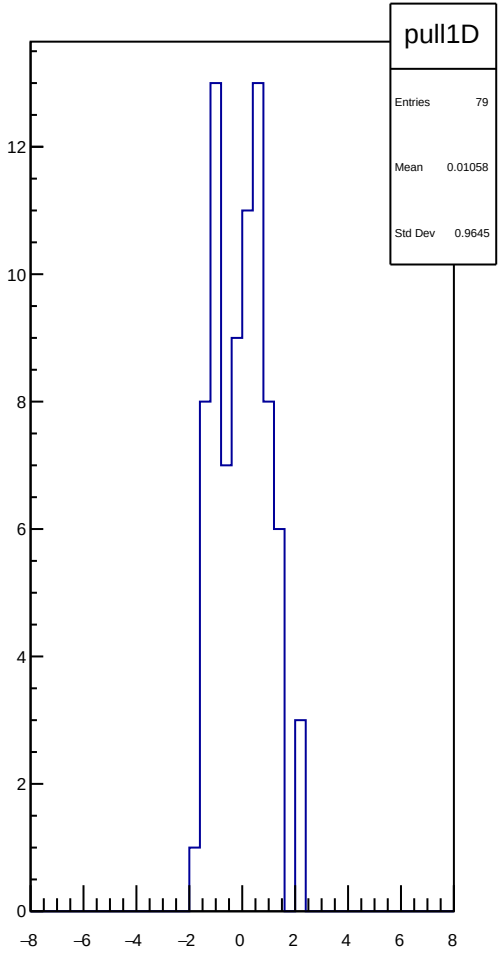

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2482 / 78
p0 1434 ± 1.159
1600
1550
1500
1450
1400
1350
1300

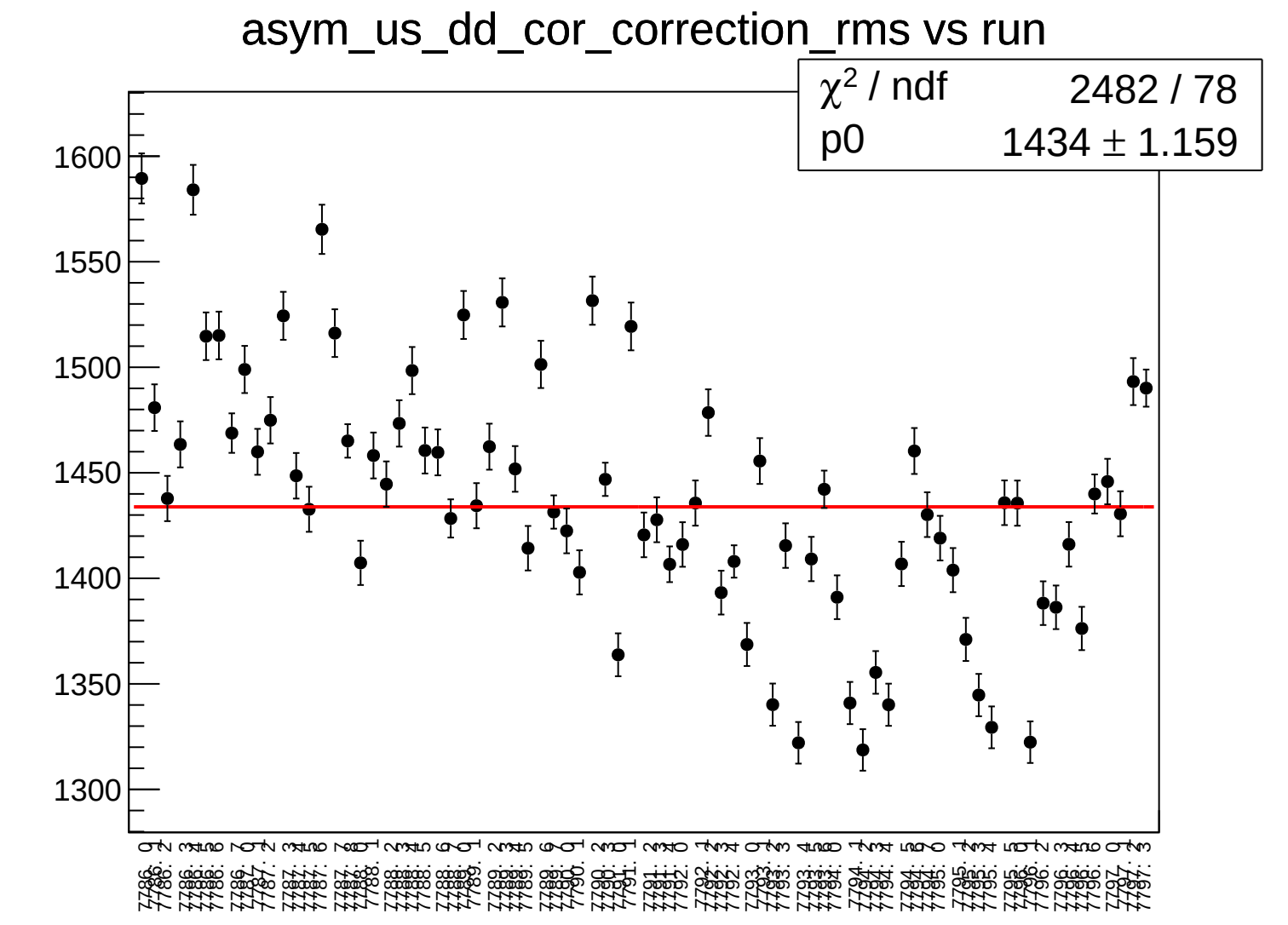

cor_asym_us_dd_mean vs run
χ² / ndf 95.48 / 78
p0 565 ± 873.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −219.7
Std Dev 0
2
1
0
−1
−2
−3

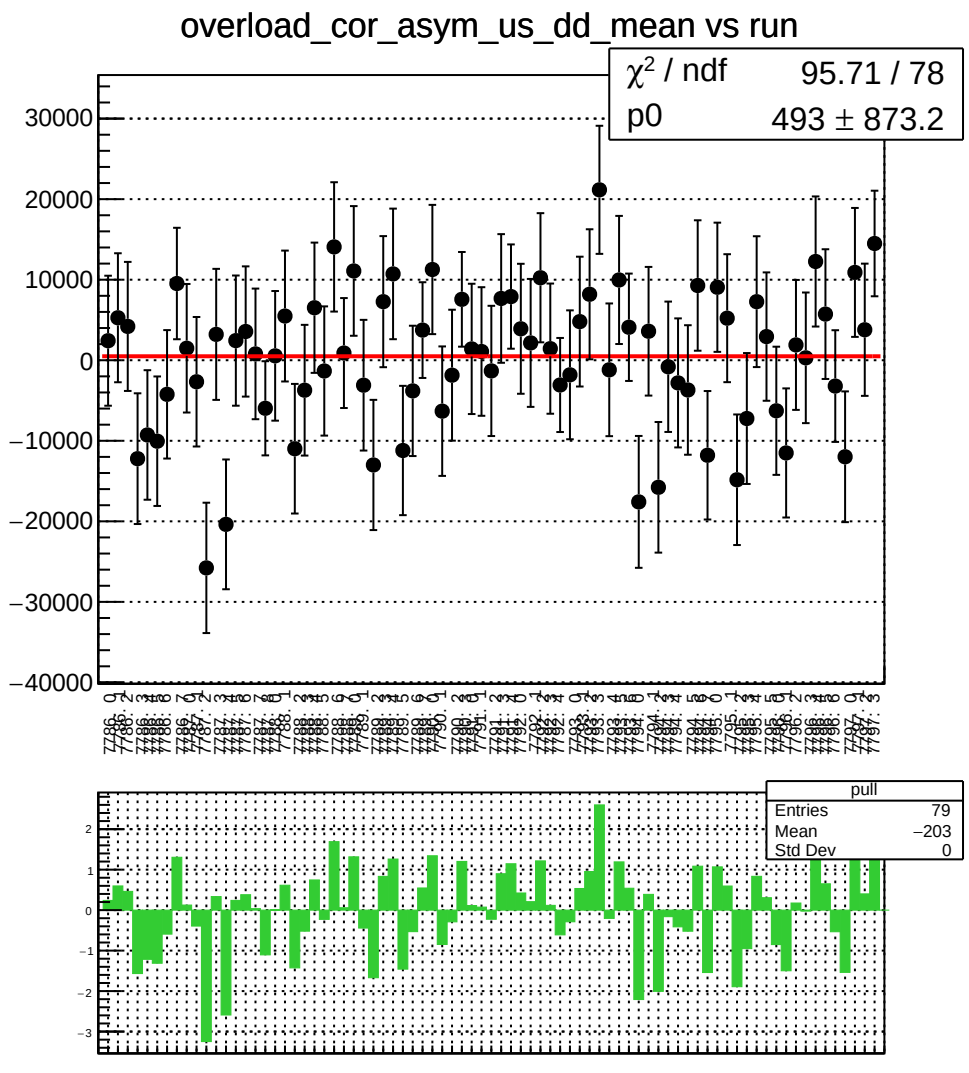

pull1D
Entries 79
Mean −0.01405
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

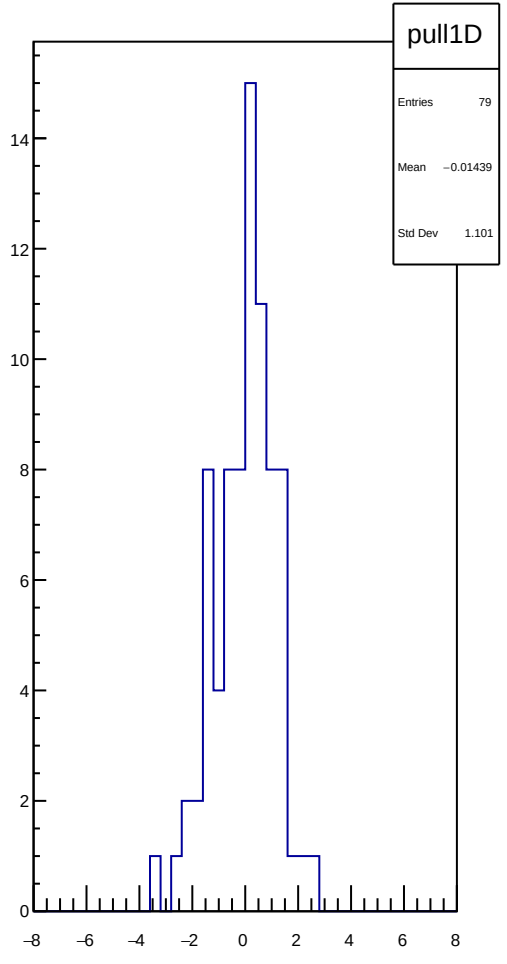

cor_asym_us_dd_rms vs run
χ^2 / ndf 94.11 / 78
p0 765.2 ± 0.6179
790
780
770
760
750

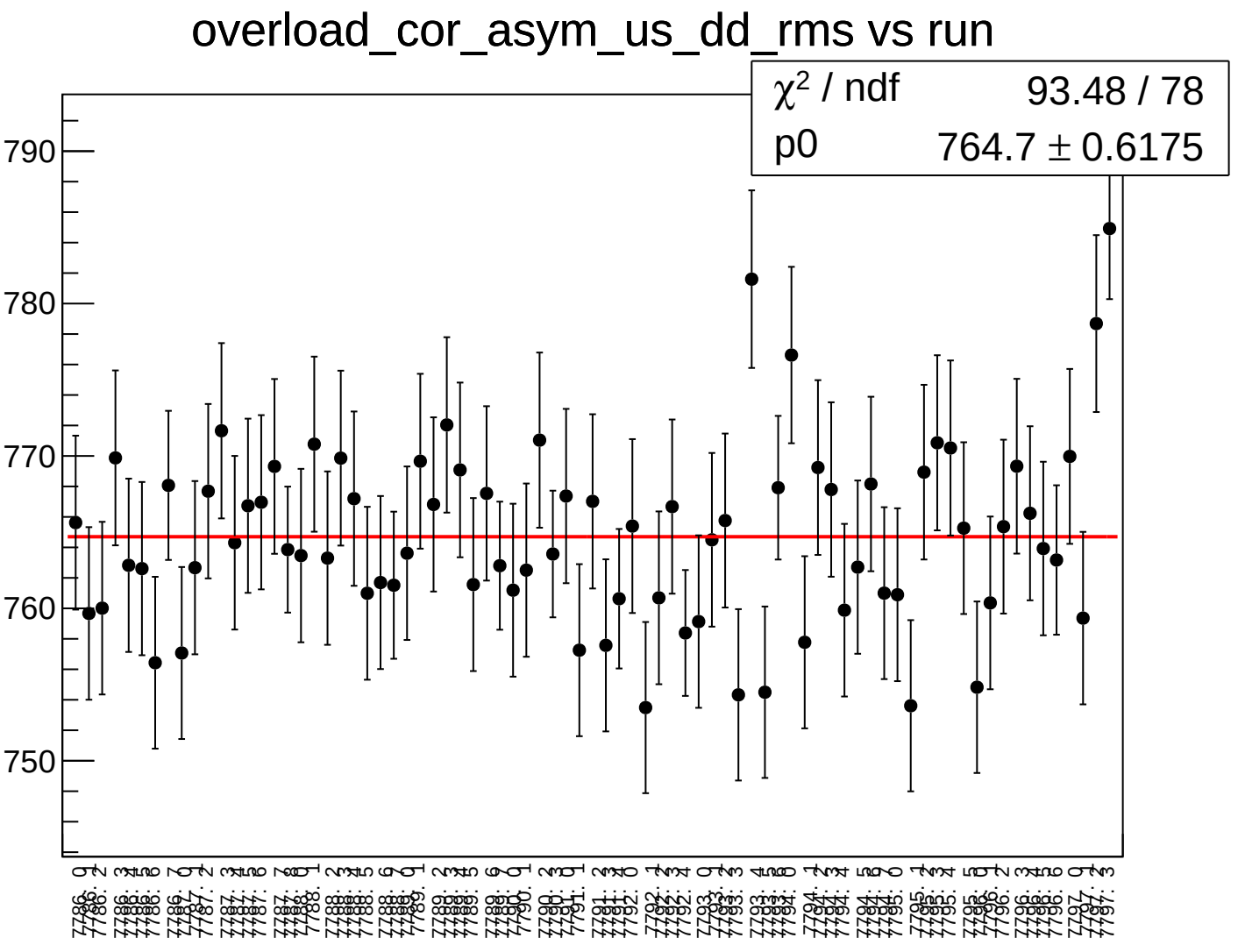

asym_us_dd_cor_correction_mean vs run
χ² / ndf 73.49 / 78
p0 −2552 ± 1639
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −40.35
Std Dev 21.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

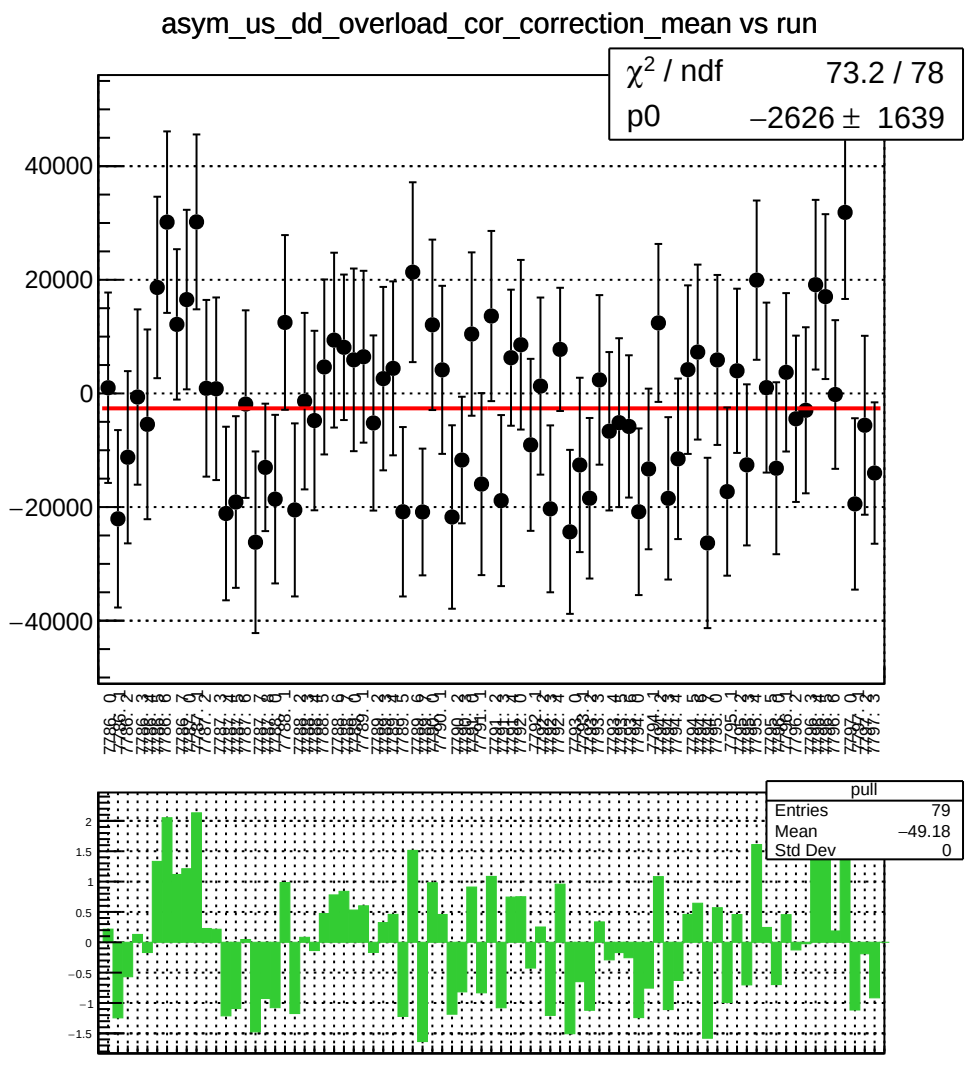

pull1D
Entries 79
Mean 0.01058
Std Dev 0.9645
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

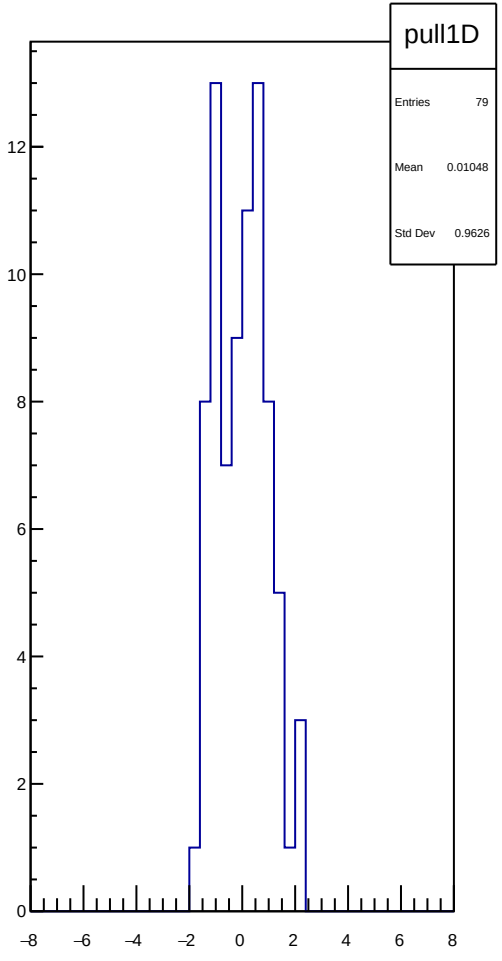

asym_us_dd_cor_correction_rms vs run
χ² / ndf 2482 / 78
p0 1434 ± 1.159
1600
1550
1500
1450
1400
1350
1300

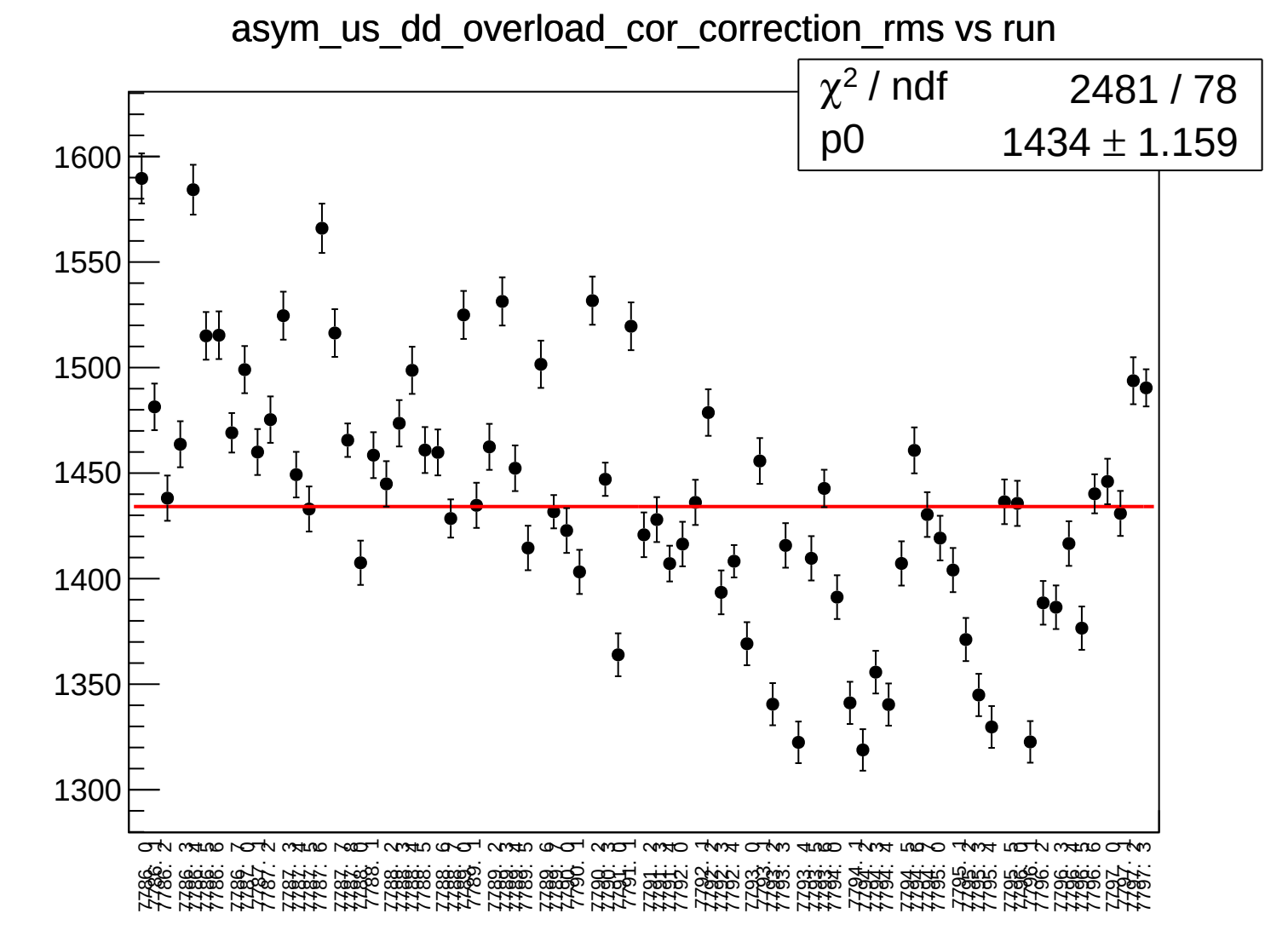

overload_cor_asym_us_dd_mean vs run
χ² / ndf 95.71 / 78
p0 493 ± 873.2
pull
Entries 79
Mean −203
Std Dev 0

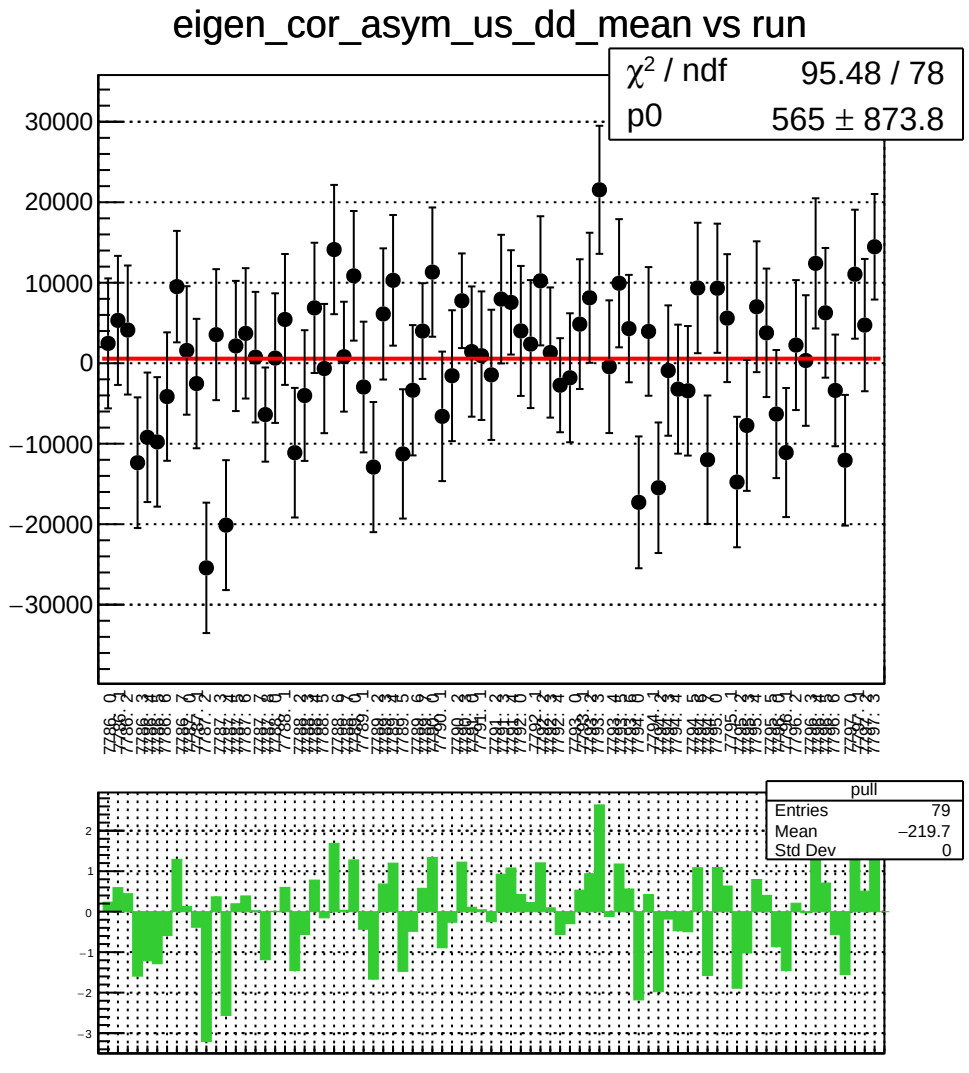

pull1D
Entries 79
Mean −0.01439
Std Dev 1.101

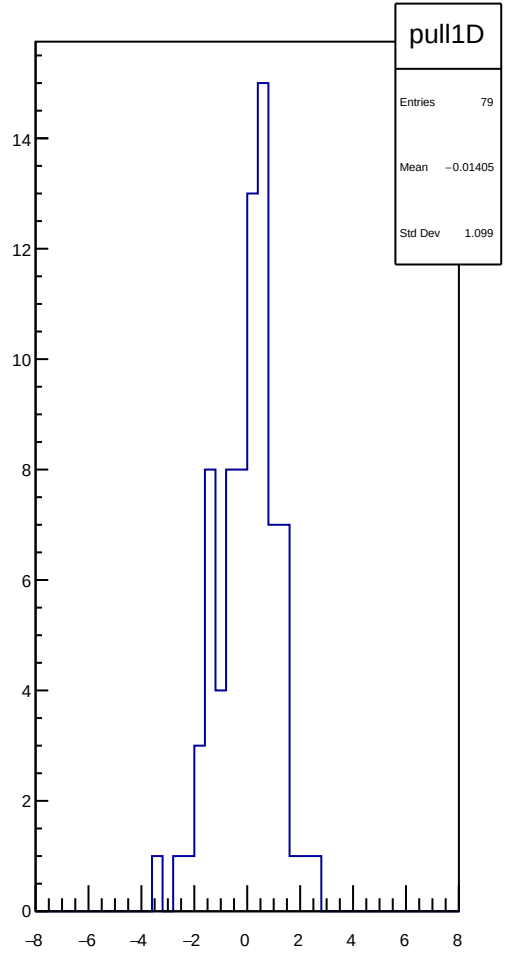

overload_cor_asym_us_dd_rms vs run
χ² / ndf 93.48 / 78
p0 764.7 ± 0.6175
790
780
770
760
750

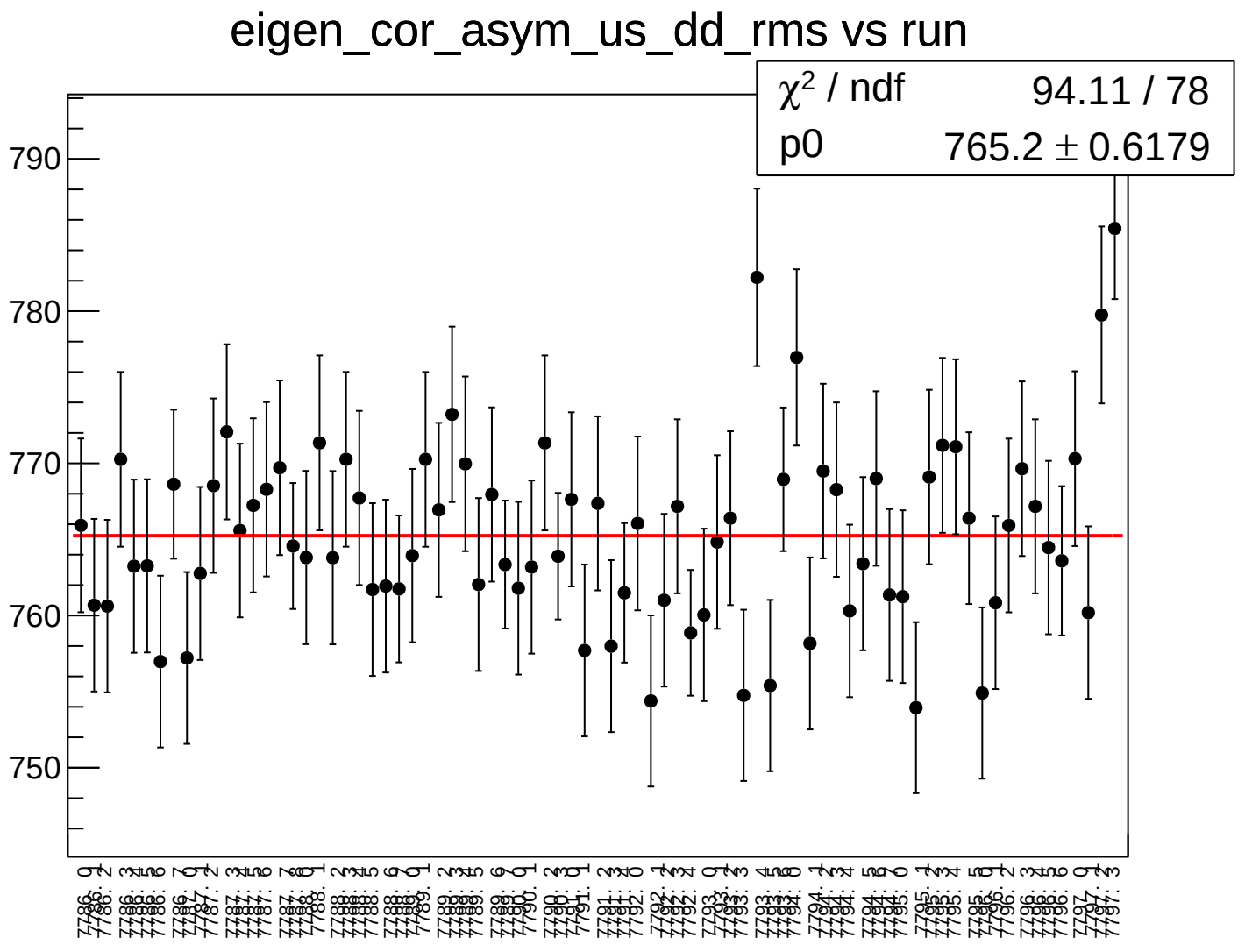

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 73.2 / 78
p0 −2626 ± 1639
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −49.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

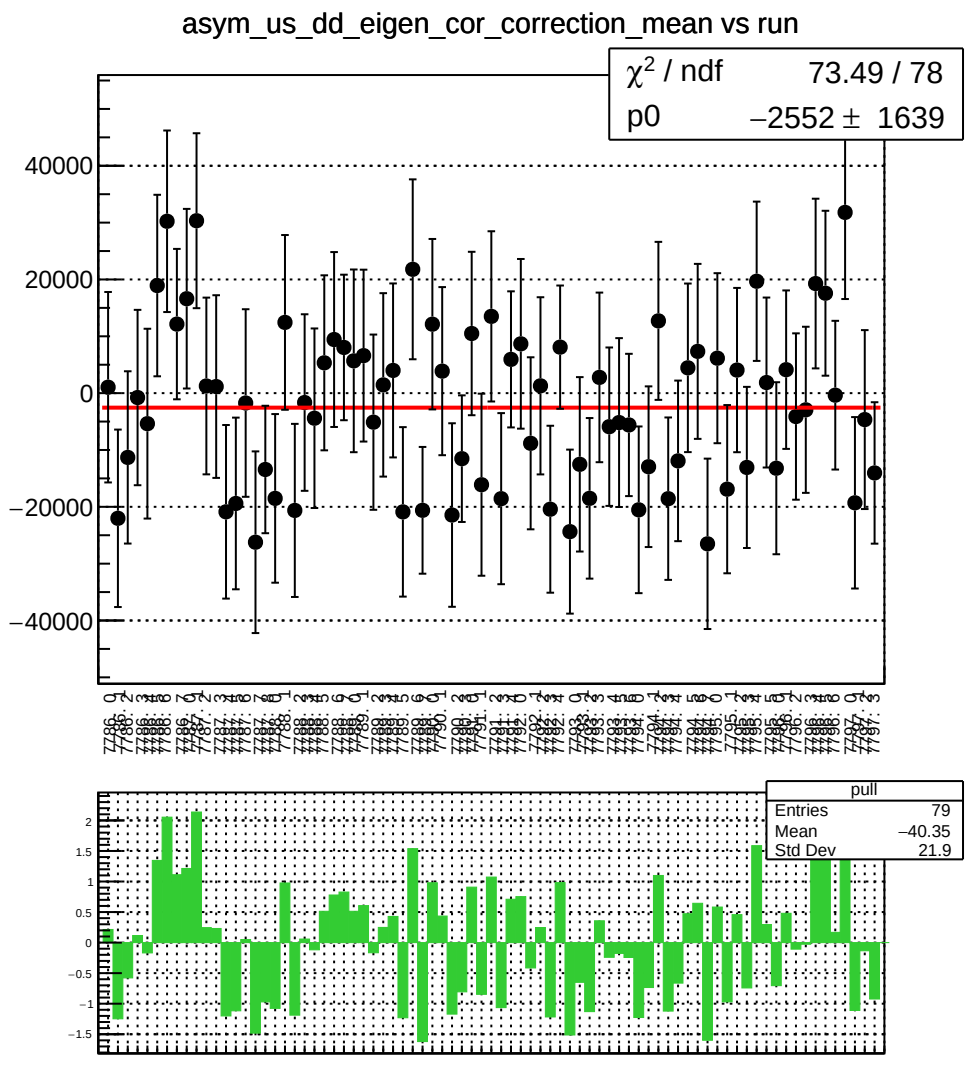

pull1D
Entries 79
Mean 0.01048
Std Dev 0.9626
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

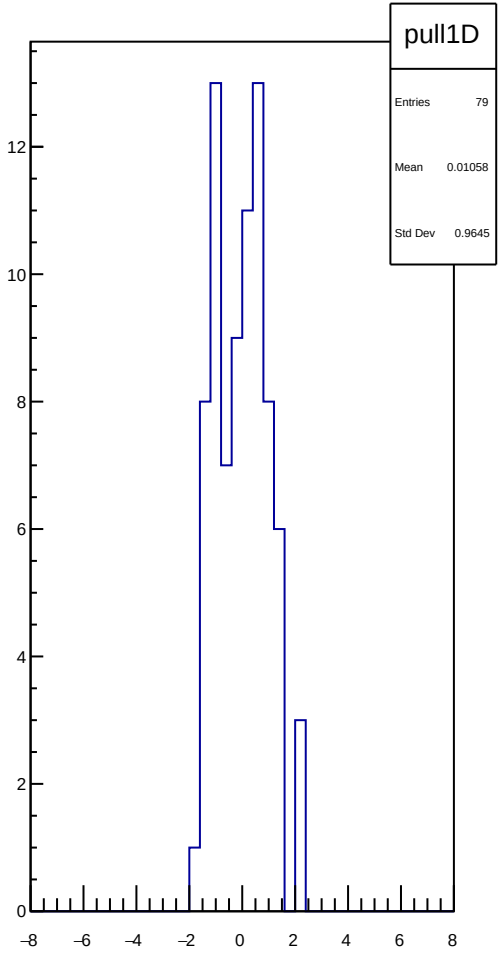

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2481 / 78
p0 1434 ± 1.159
1600
1550
1500
1450
1400
1350
1300

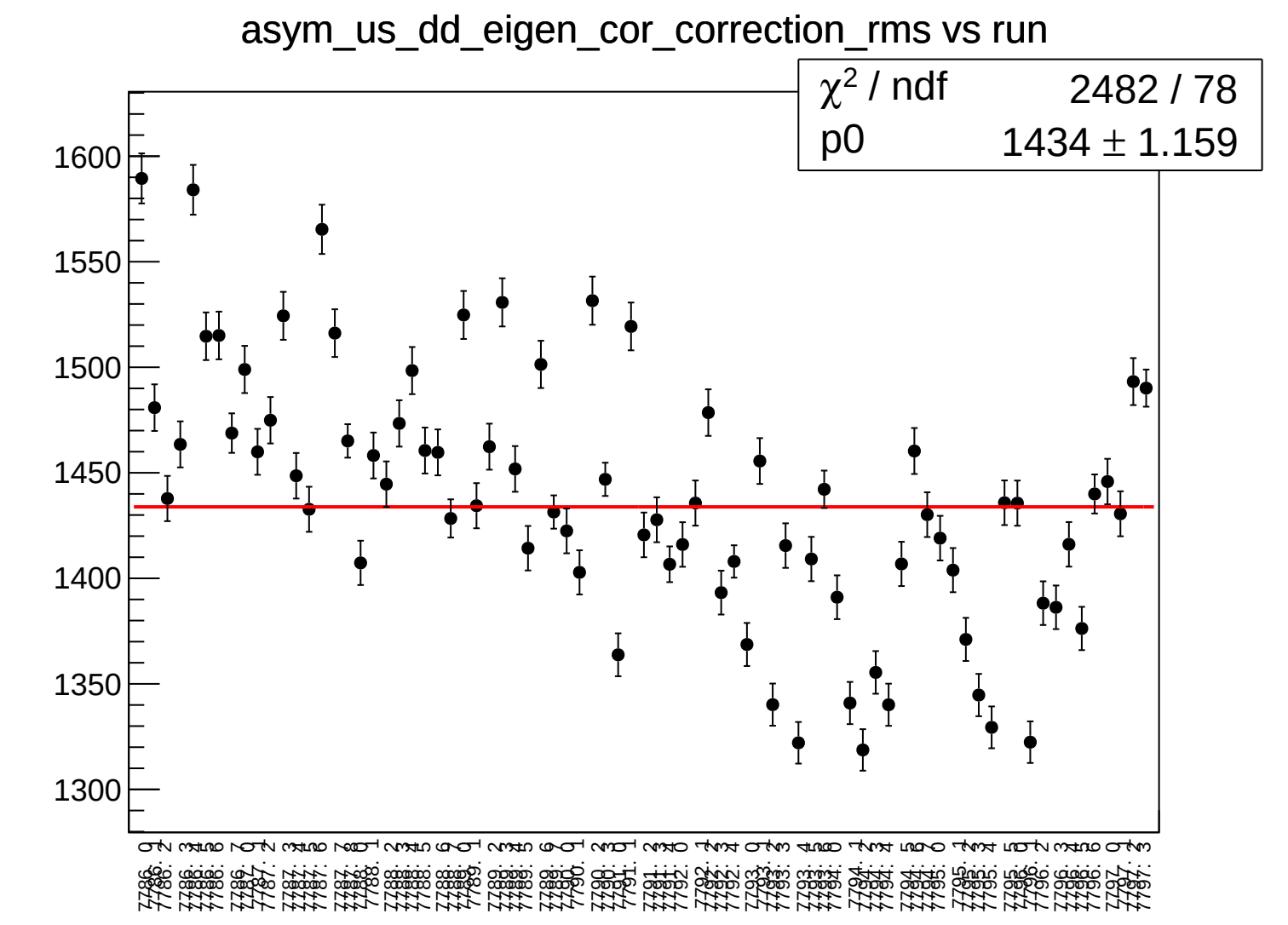

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 95.48 / 78
p0 565 ± 873.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −219.7
Std Dev 0
2
1
0
−1
−2
−3

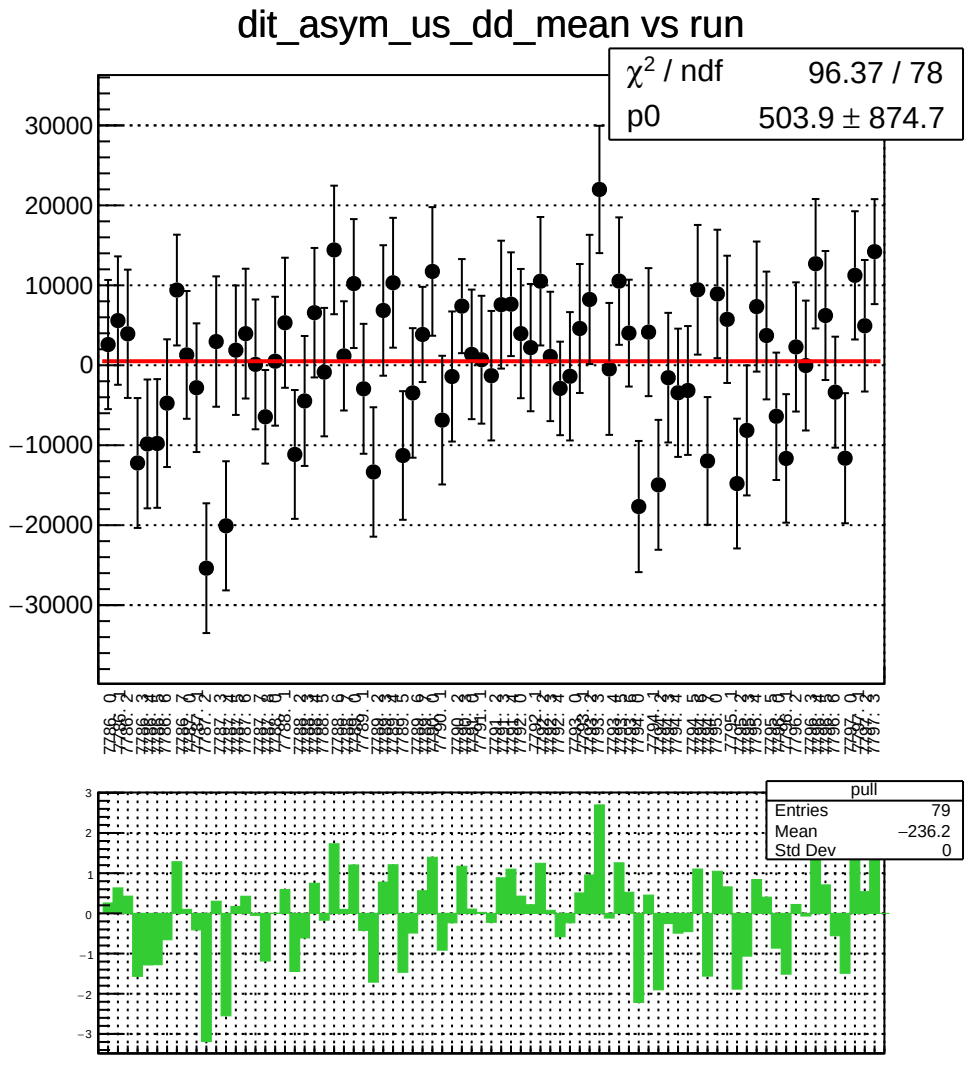

pull1D
Entries 79
Mean −0.01405
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

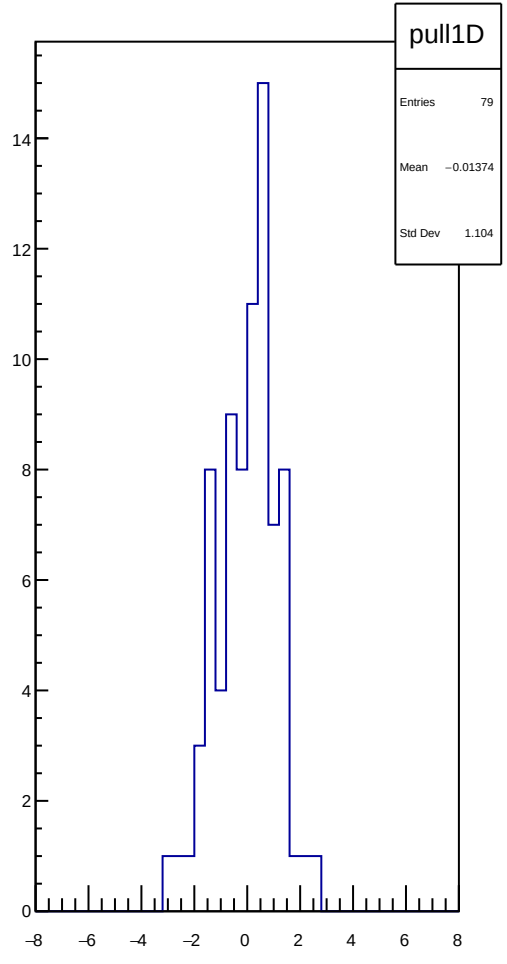

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 94.11 / 78
p0 765.2 ± 0.6179
790
780
770
760
750

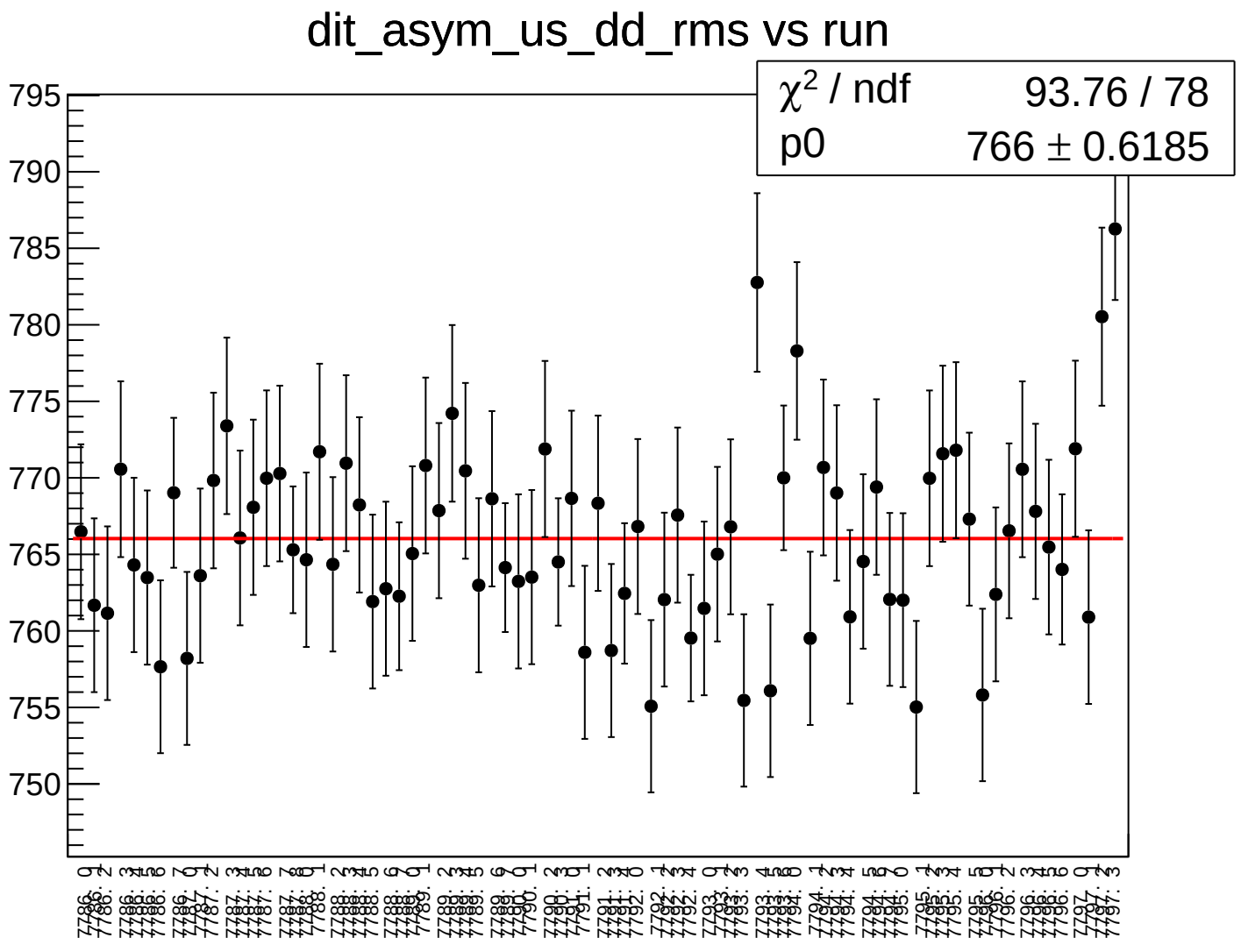

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.49 / 78
p0 −2552 ± 1639
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −40.35
Std Dev 21.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

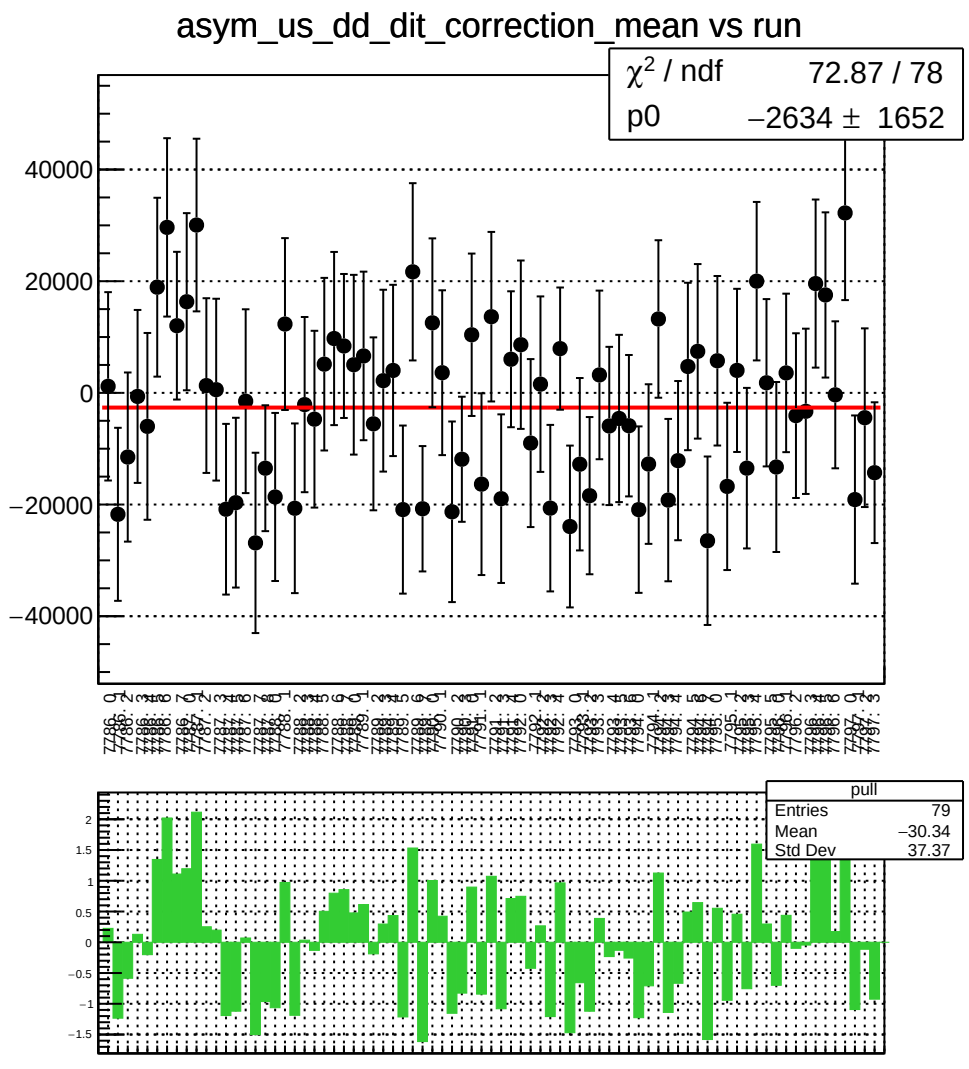

pull1D
Entries 79
Mean 0.01058
Std Dev 0.9645
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

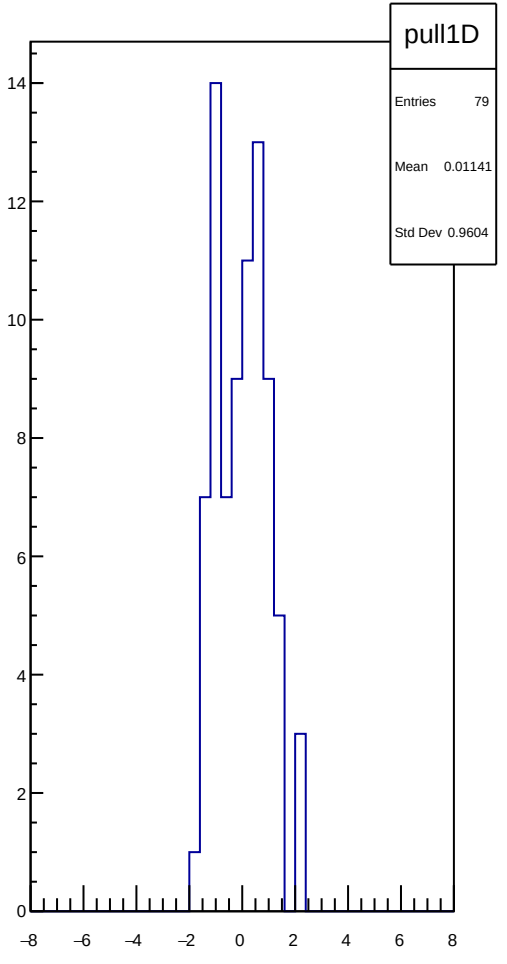

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 2482 / 78
p0 1434 ± 1.159
1600
1550
1500
1450
1400
1350
1300

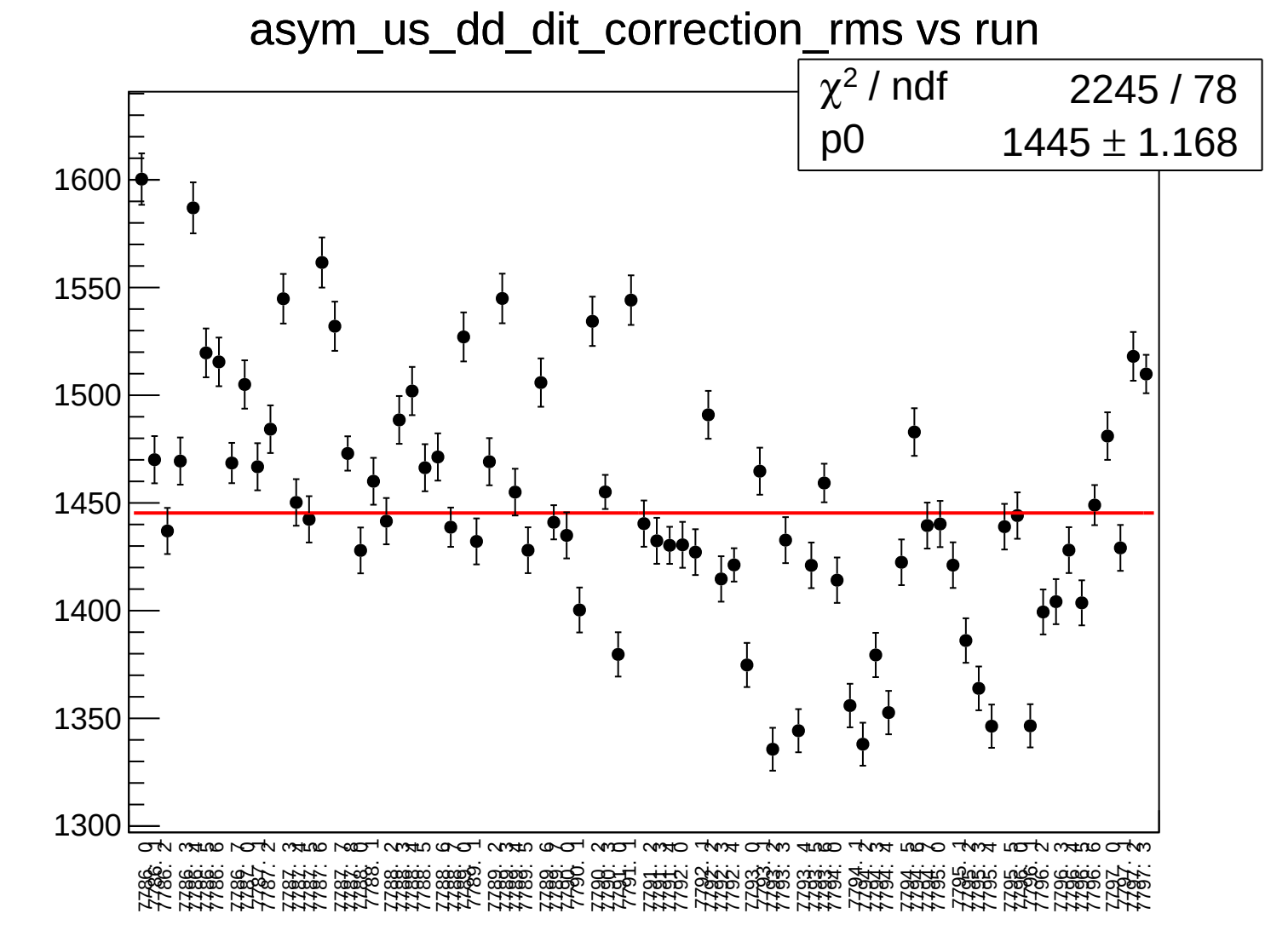

dit_asym_us_dd_mean vs run
χ² / ndf 96.37 / 78
p0 503.9 ± 874.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −236.2
Std Dev 0
3
2
1
0
−1
−2
−3

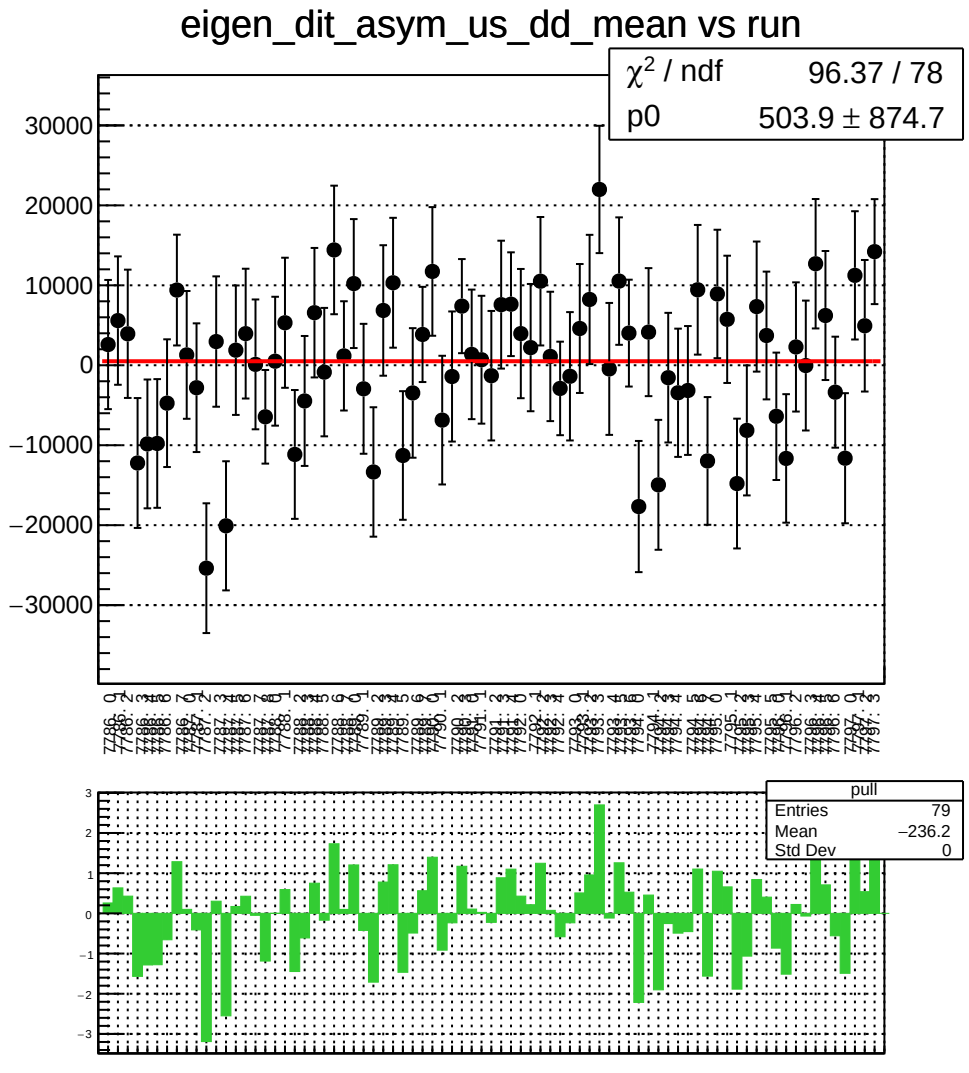

pull1D
Entries 79
Mean −0.01374
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

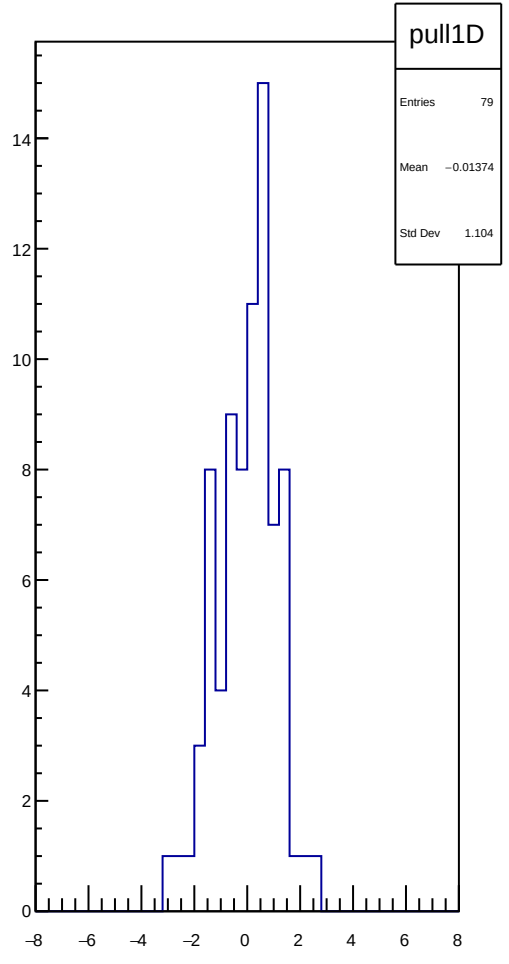

dit_asym_us_dd_rms vs run
χ² / ndf 93.76 / 78
p0 766 ± 0.6185
795
790
785
780
775
770
765
760
755
750

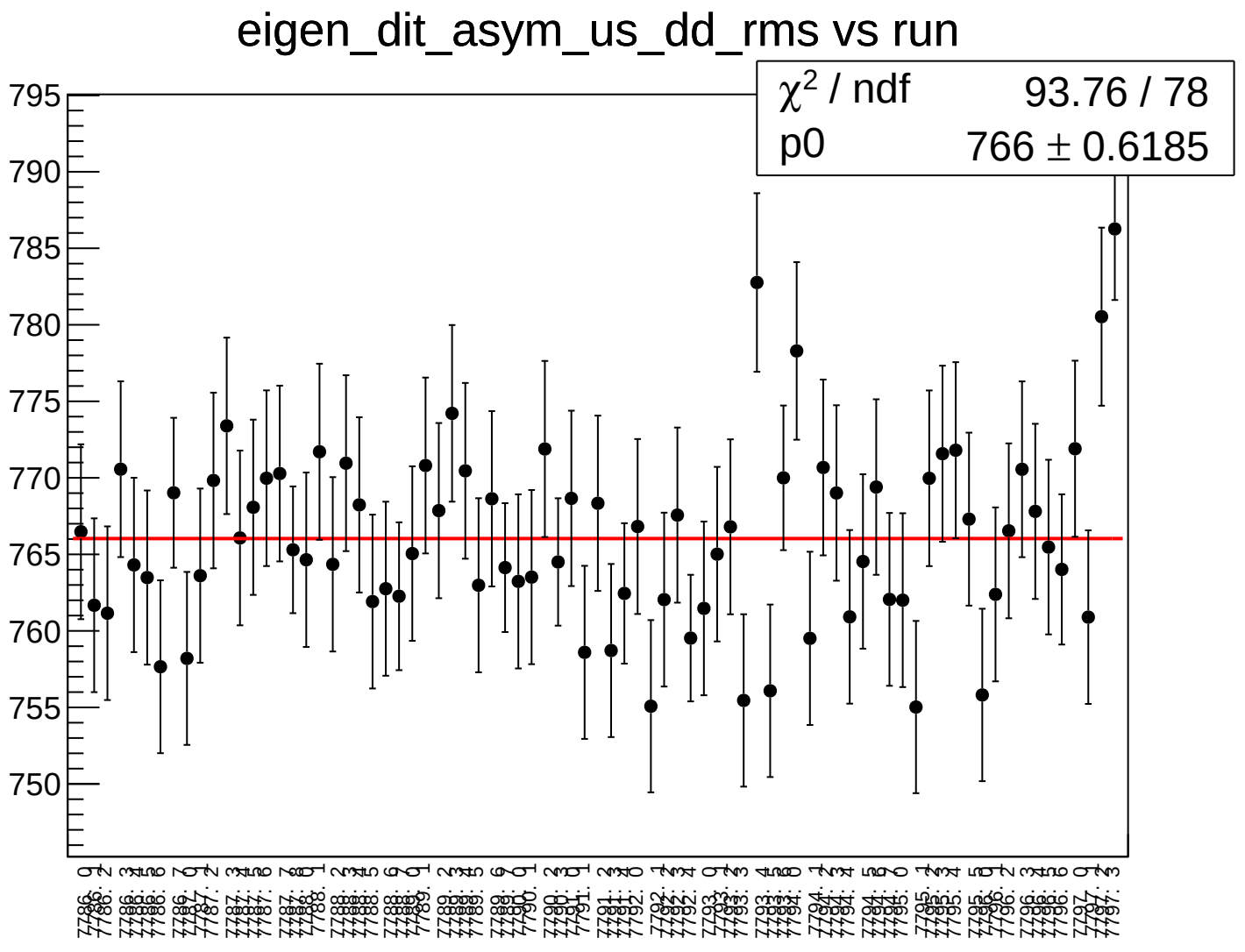

asym_us_dd_dit_correction_mean vs run
χ² / ndf 72.87 / 78
p0 −2634 ± 1652
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −30.34
Std Dev 37.37
2
1.5
1
0.5
0
−0.5
−1
−1.5

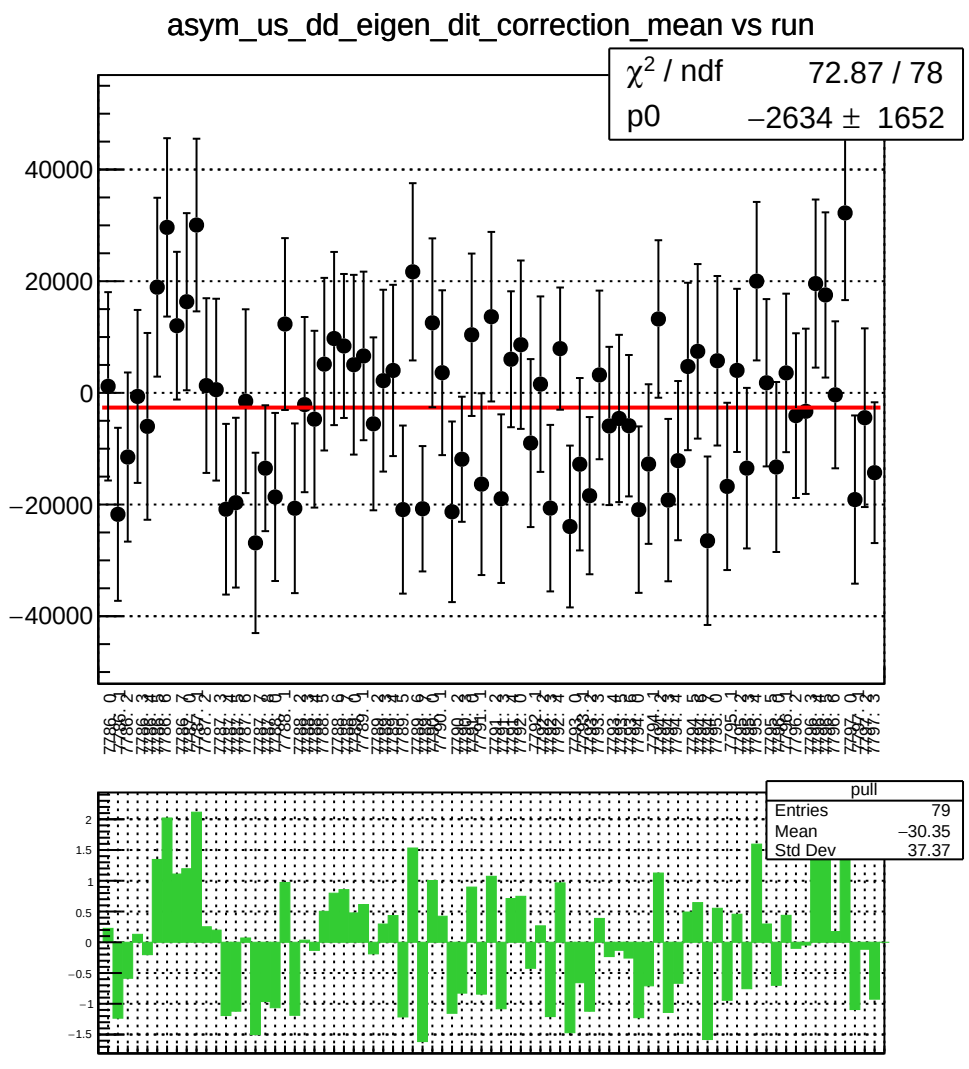

pull1D
Entries 79
Mean 0.01141
Std Dev 0.9604
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

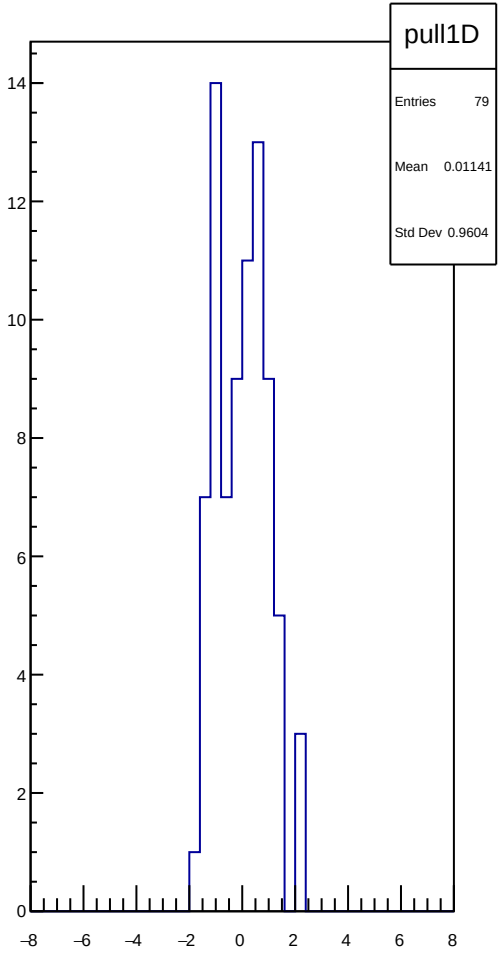

asym_us_dd_dit_correction_rms vs run
χ² / ndf 2245 / 78
p0 1445 ± 1.168
1600
1550
1500
1450
1400
1350
1300

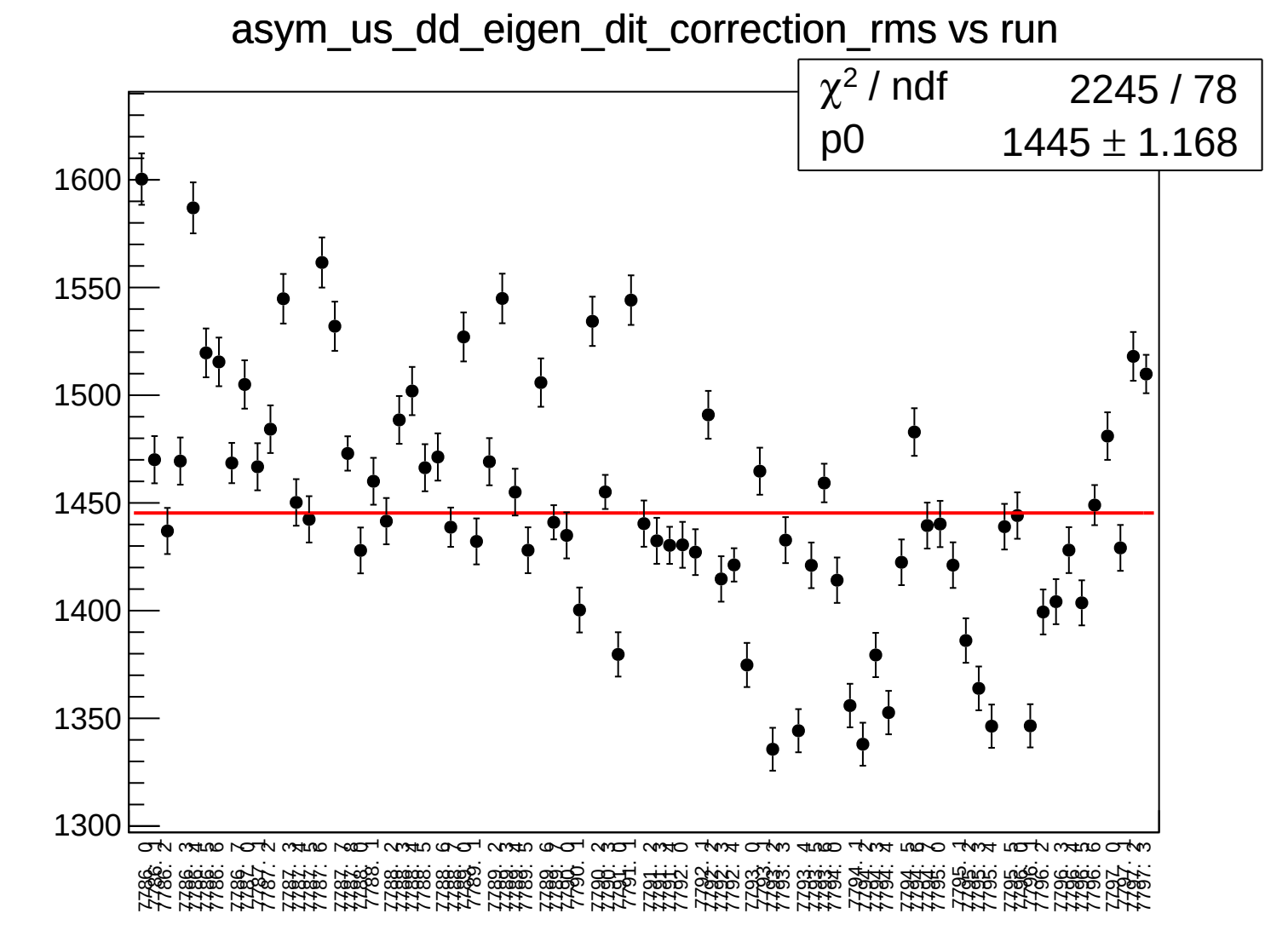

eigen_dit_asym_us_dd_mean vs run
χ^2 / ndf 96.37 / 78
p0 503.9 ± 874.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −236.2
Std Dev 0
3
2
1
0
−1
−2
−3

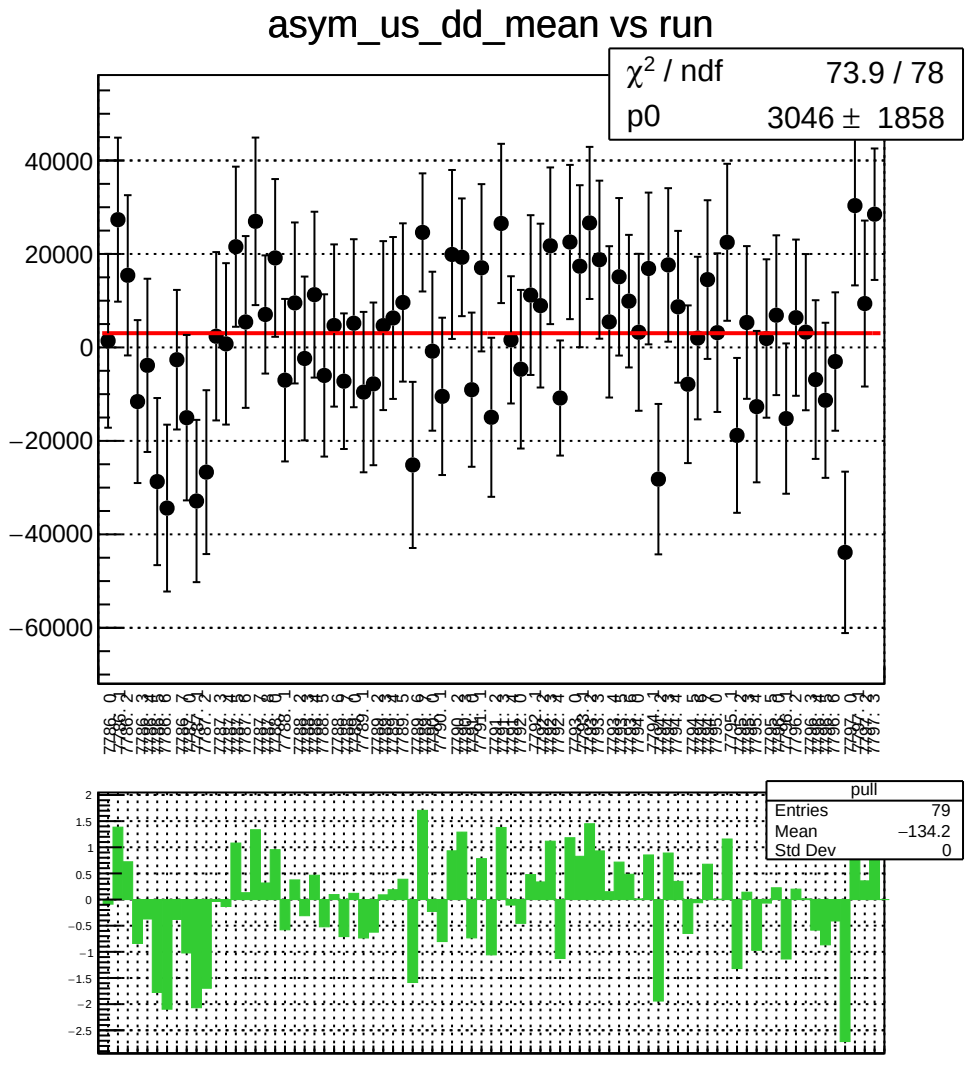

pull1D
Entries 79
Mean −0.01374
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

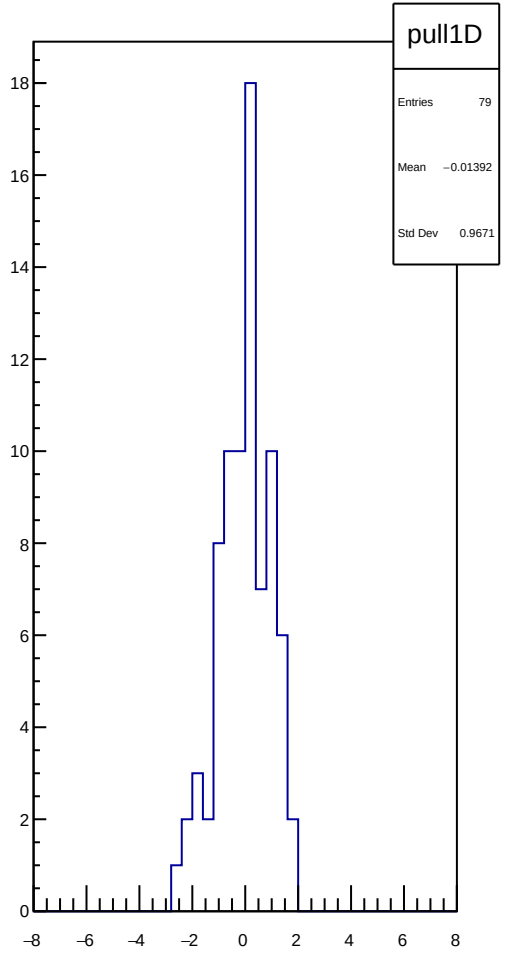

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 93.76 / 78
p0 766 ± 0.6185
795
790
785
780
775
770
765
760
755
750

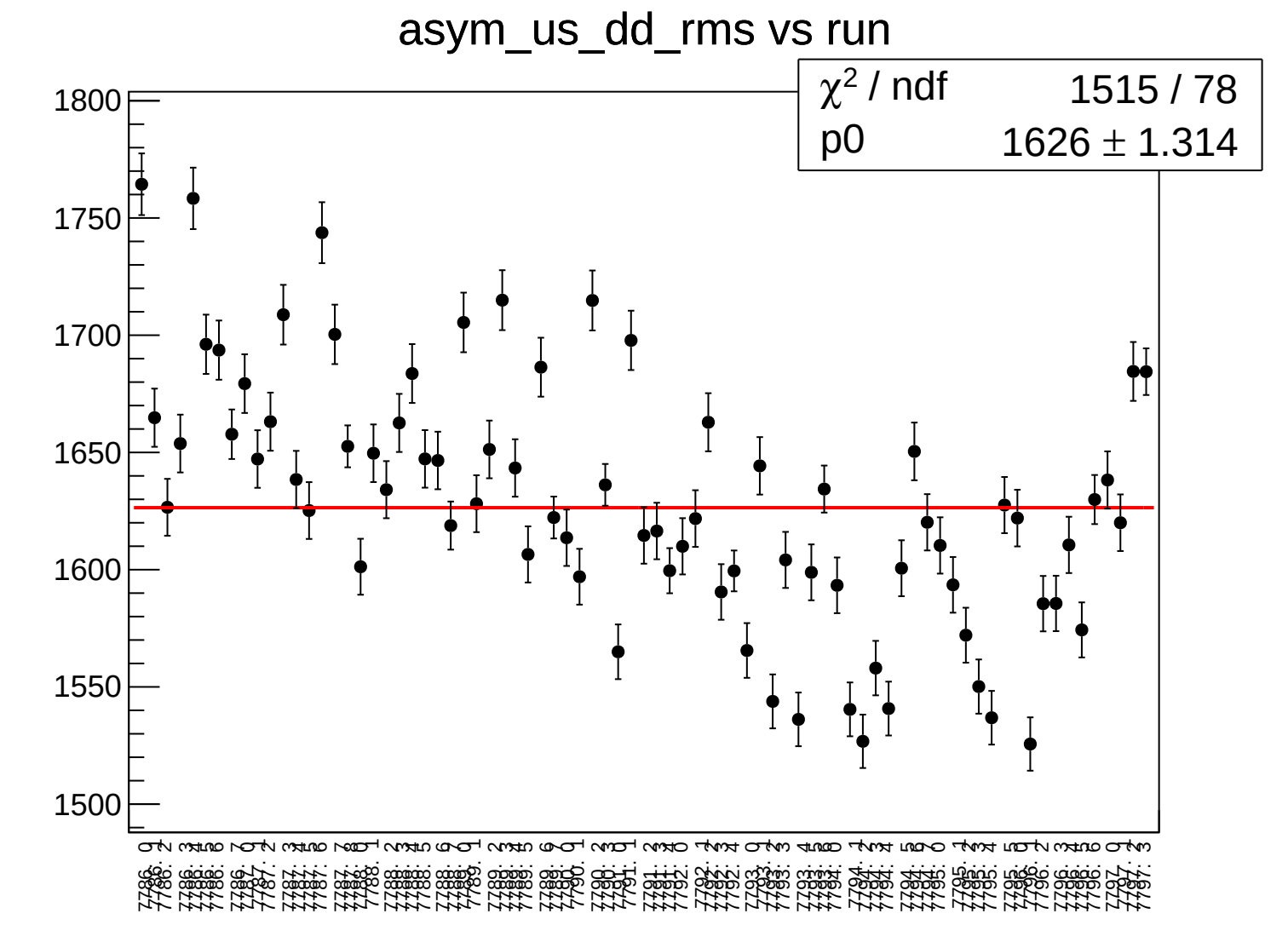

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.87 / 78
p0 −2634 ± 1652
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −30.35
Std Dev 37.37
2
1.5
1
0.5
0
−0.5
−1
−1.5

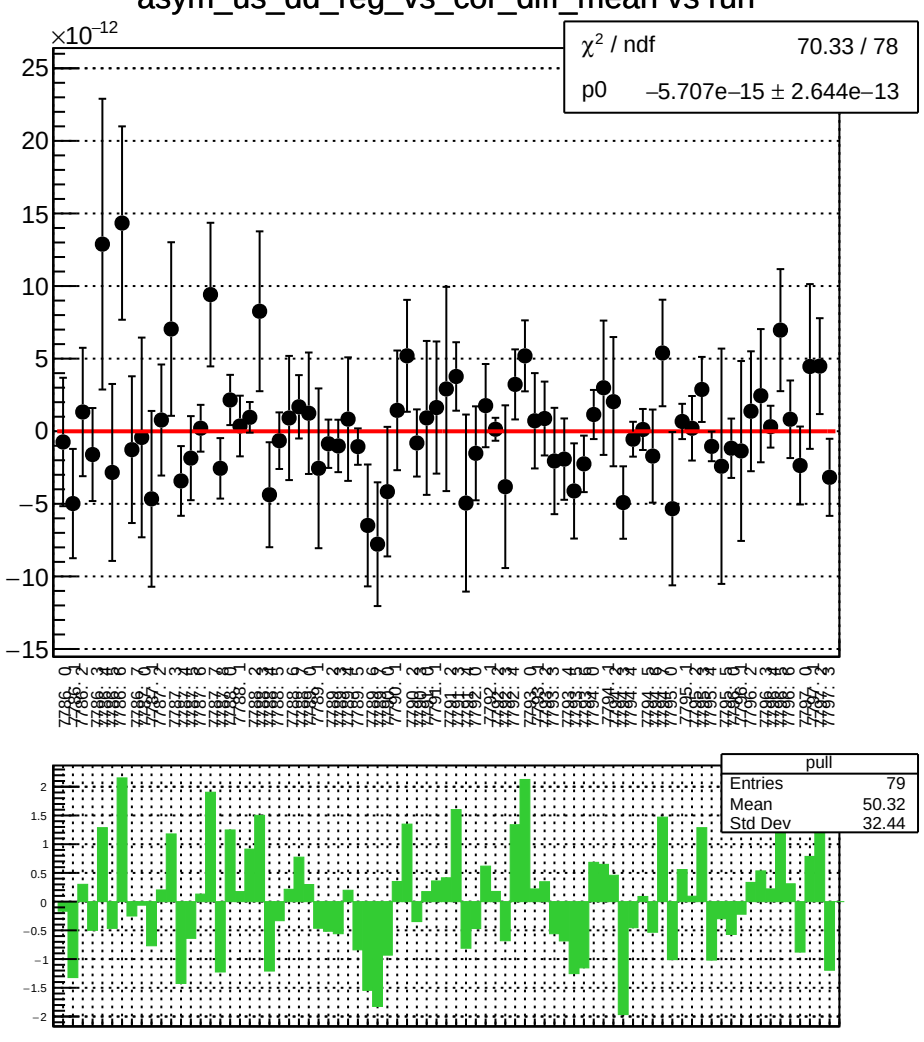

pull1D
Entries 79
Mean 0.01141
Std Dev 0.9604
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

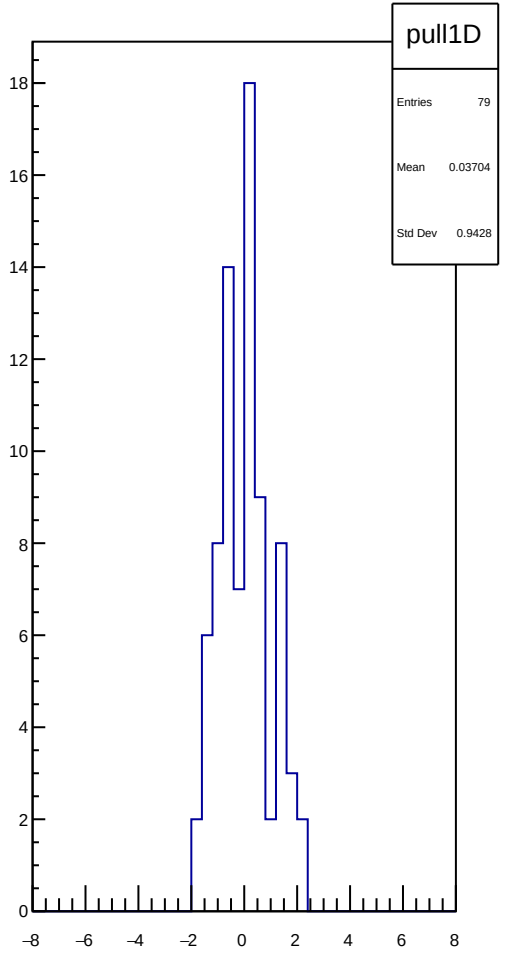

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 2245 / 78
p0 1445 ± 1.168
1600
1550
1500
1450
1400
1350
1300

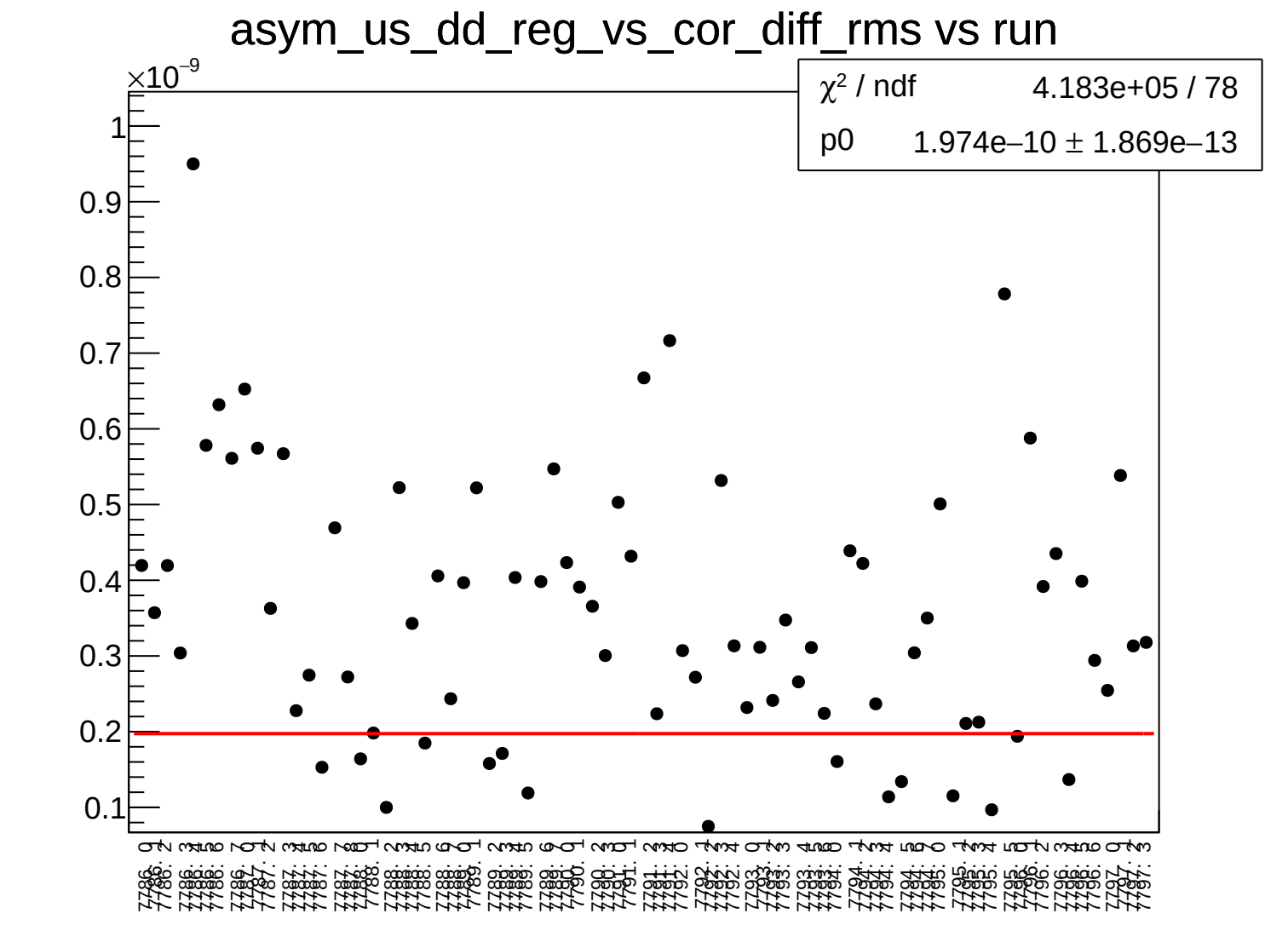

asym_us_dd_mean vs run
χ² / ndf 73.9 / 78
p0 3046 ± 1858
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −134.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

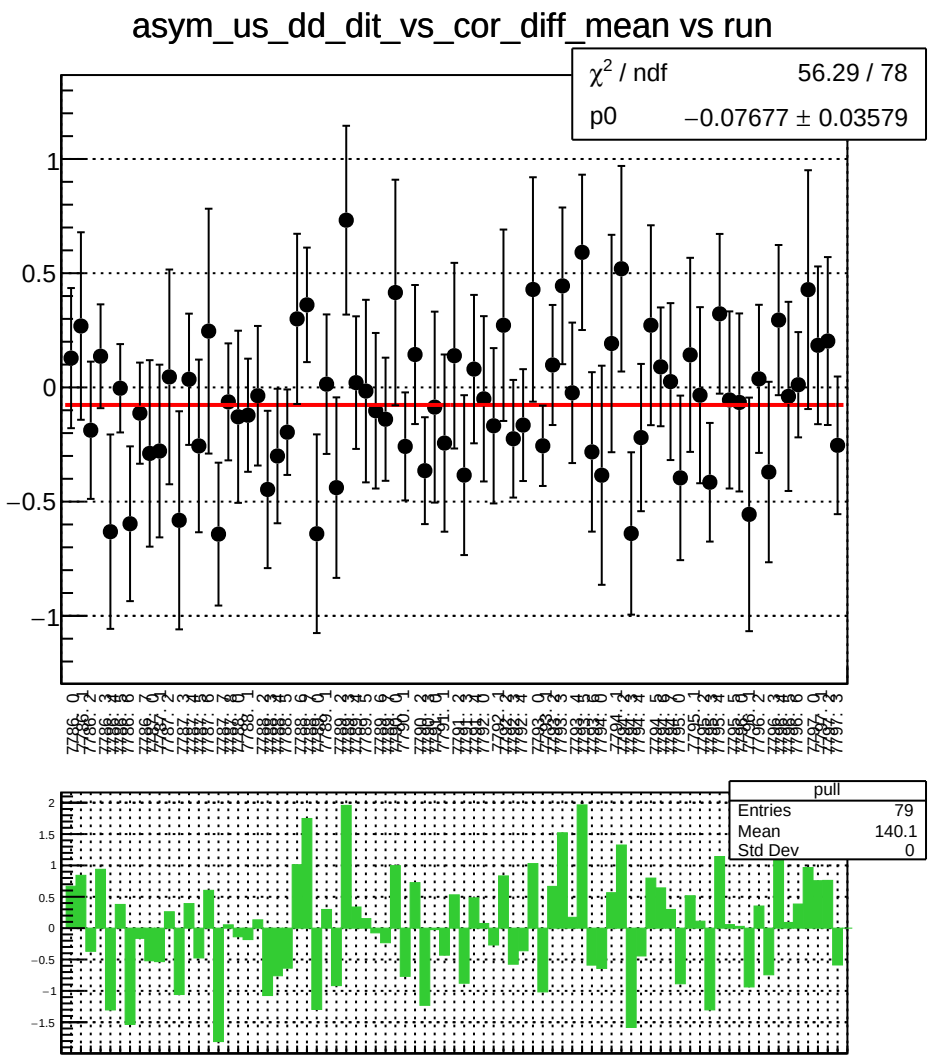

pull1D
Entries 79
Mean −0.01392
Std Dev 0.9671
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

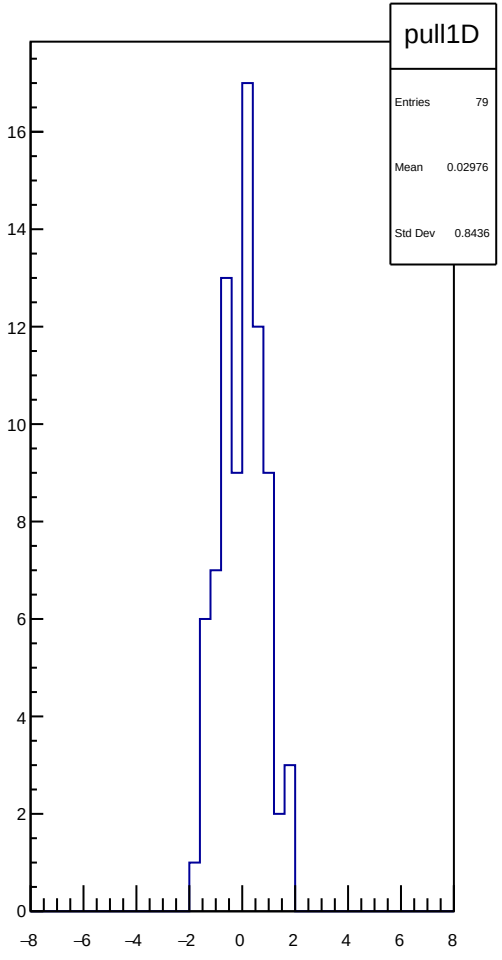

asym_us_dd_rms vs run
χ^2 / ndf 1515 / 78
p0 1626 ± 1.314
1800
1750
1700
1650
1600
1550
1500

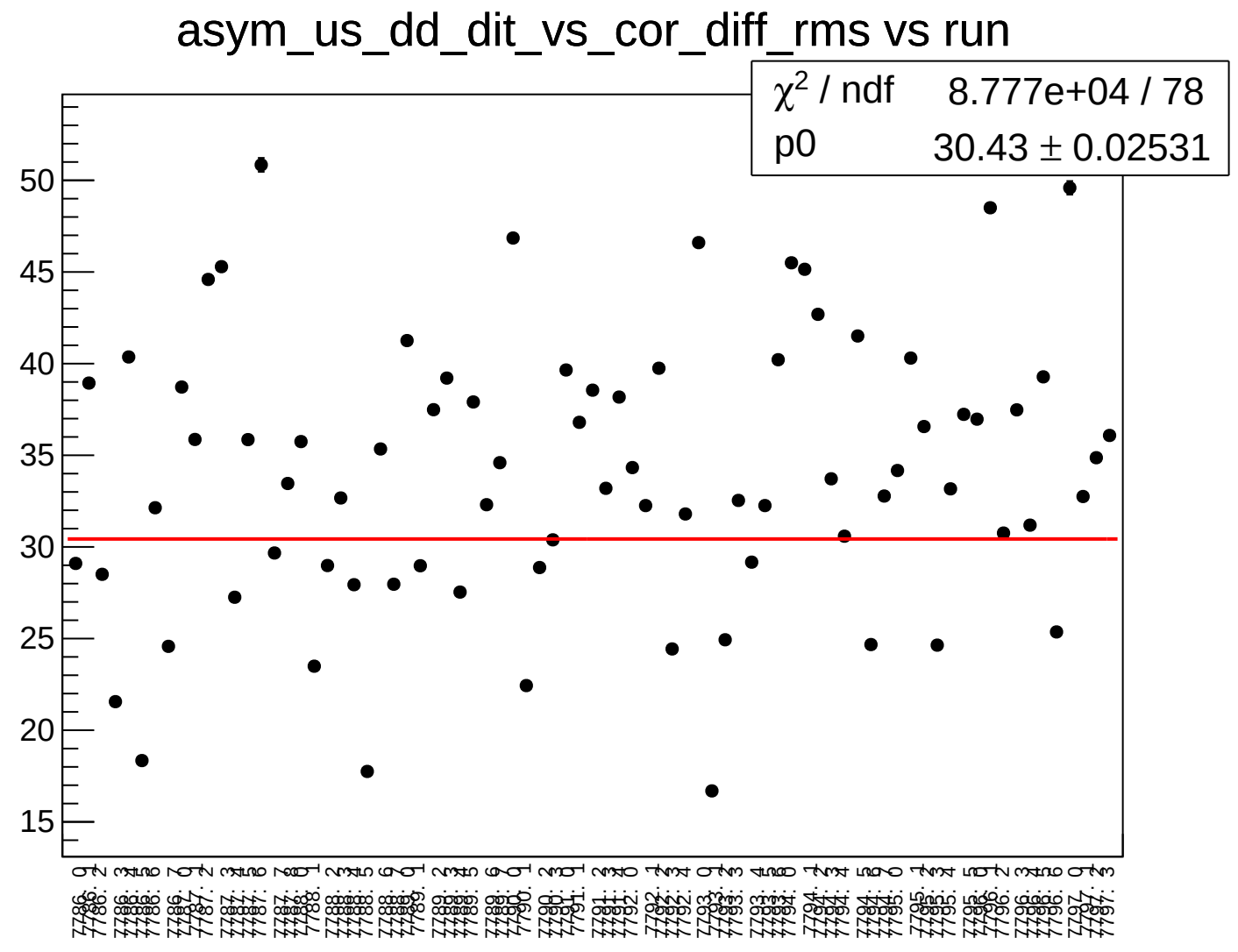

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.33 / 78
p0 −5.707e−15 ± 2.644e−13
pull
Entries 79
Mean 50.32
Std Dev 32.44

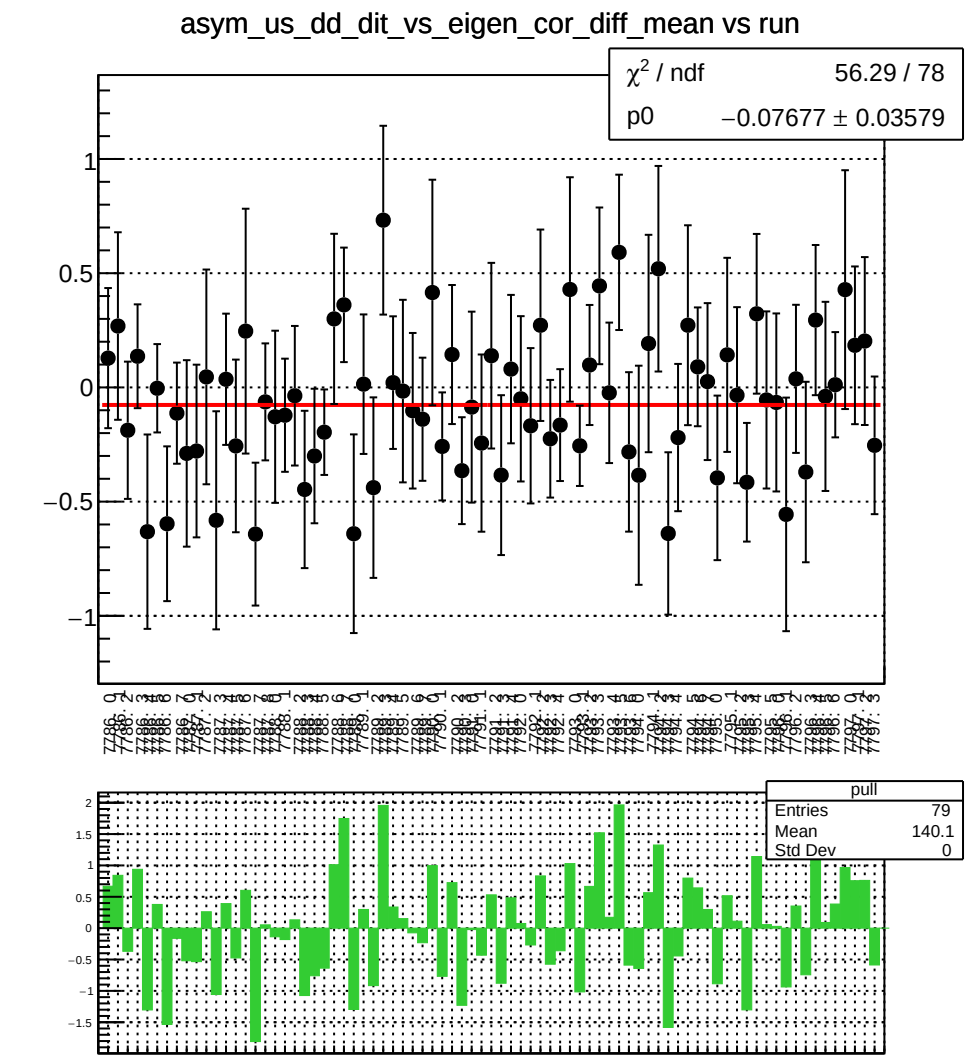

pull1D
Entries 79
Mean 0.03704
Std Dev 0.9428

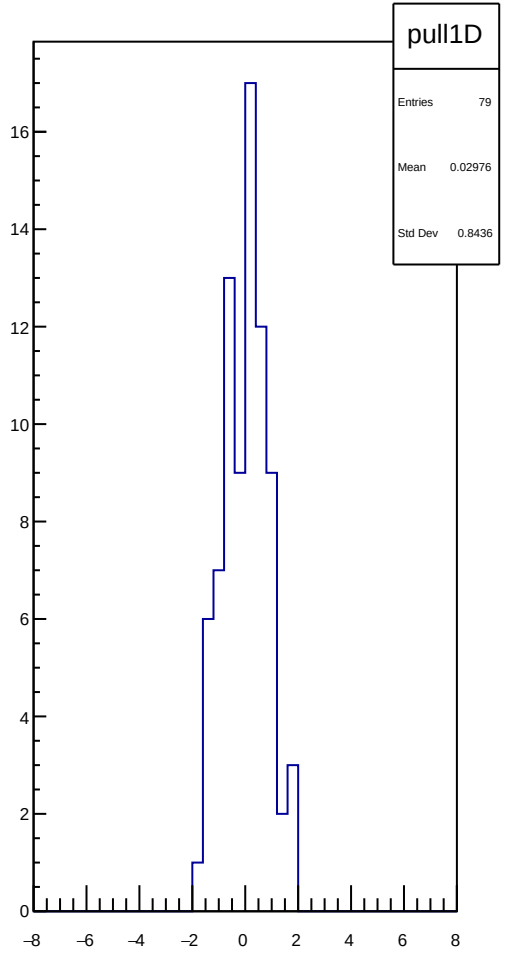

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.183e+05 / 78
p0 1.974e−10 ± 1.869e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

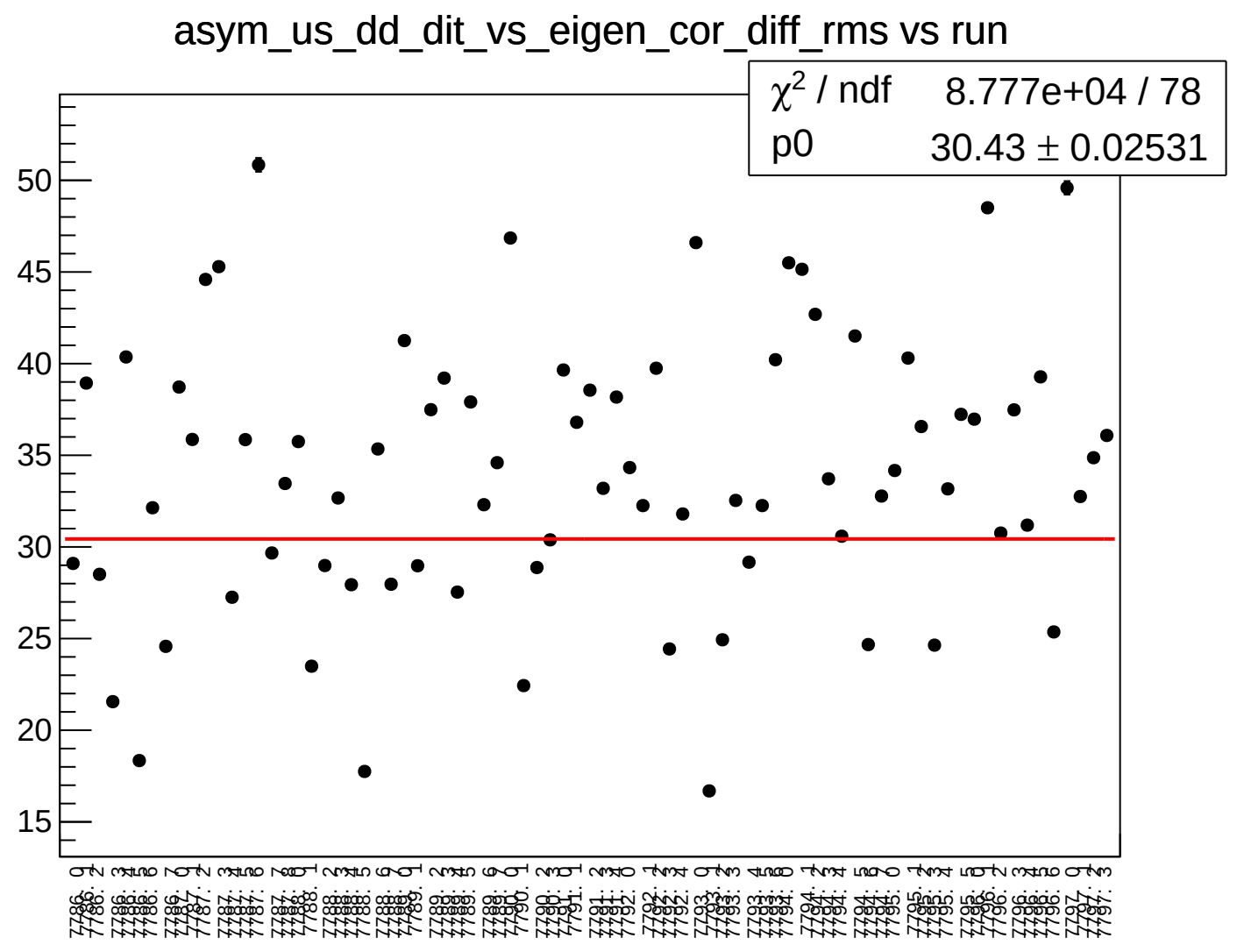

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 56.29 / 78
p0 −0.07677 ± 0.03579
pull
Entries 79
Mean 140.1
Std Dev 0

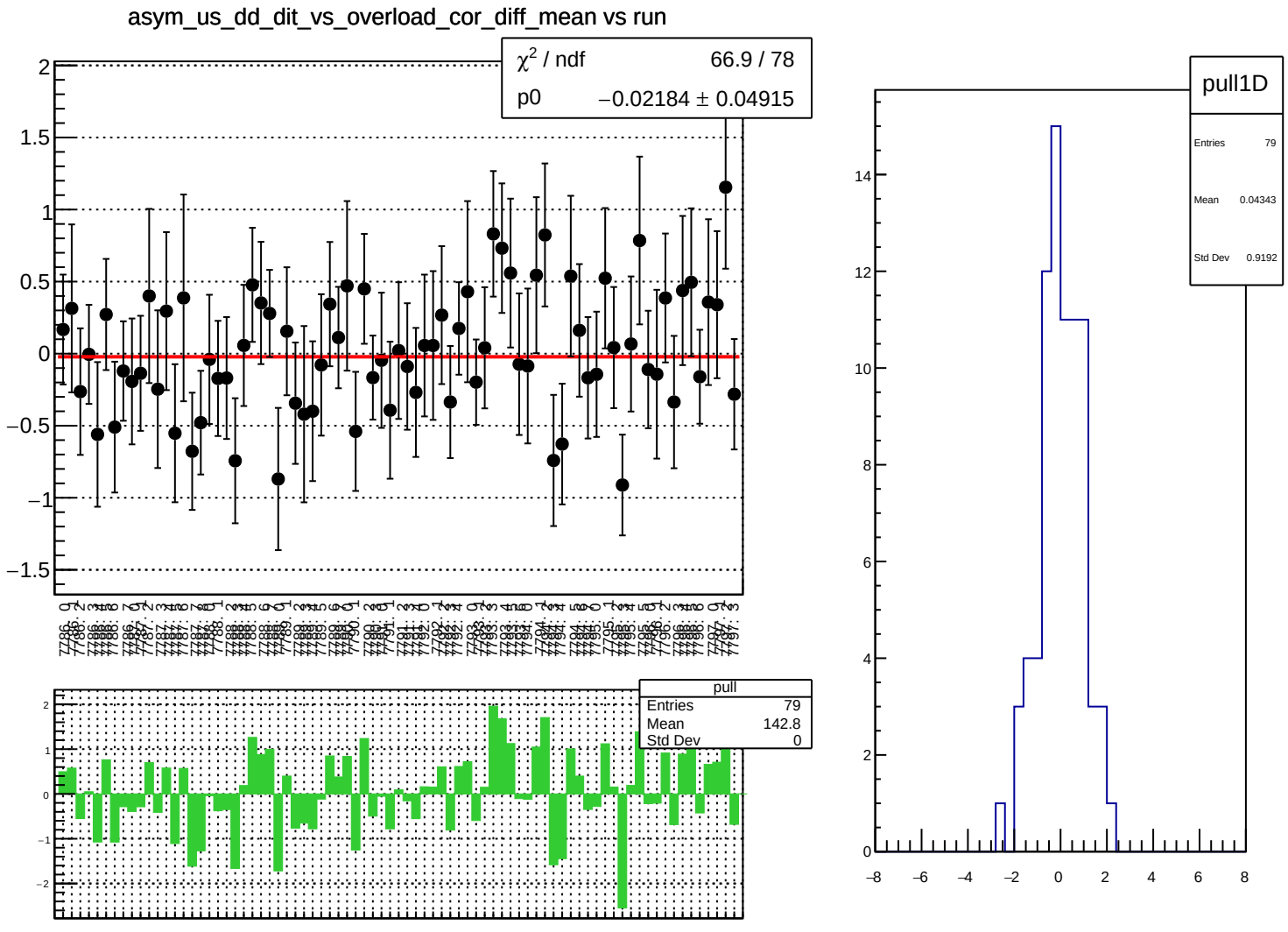

pull1D
Entries 79
Mean 0.02976
Std Dev 0.8436

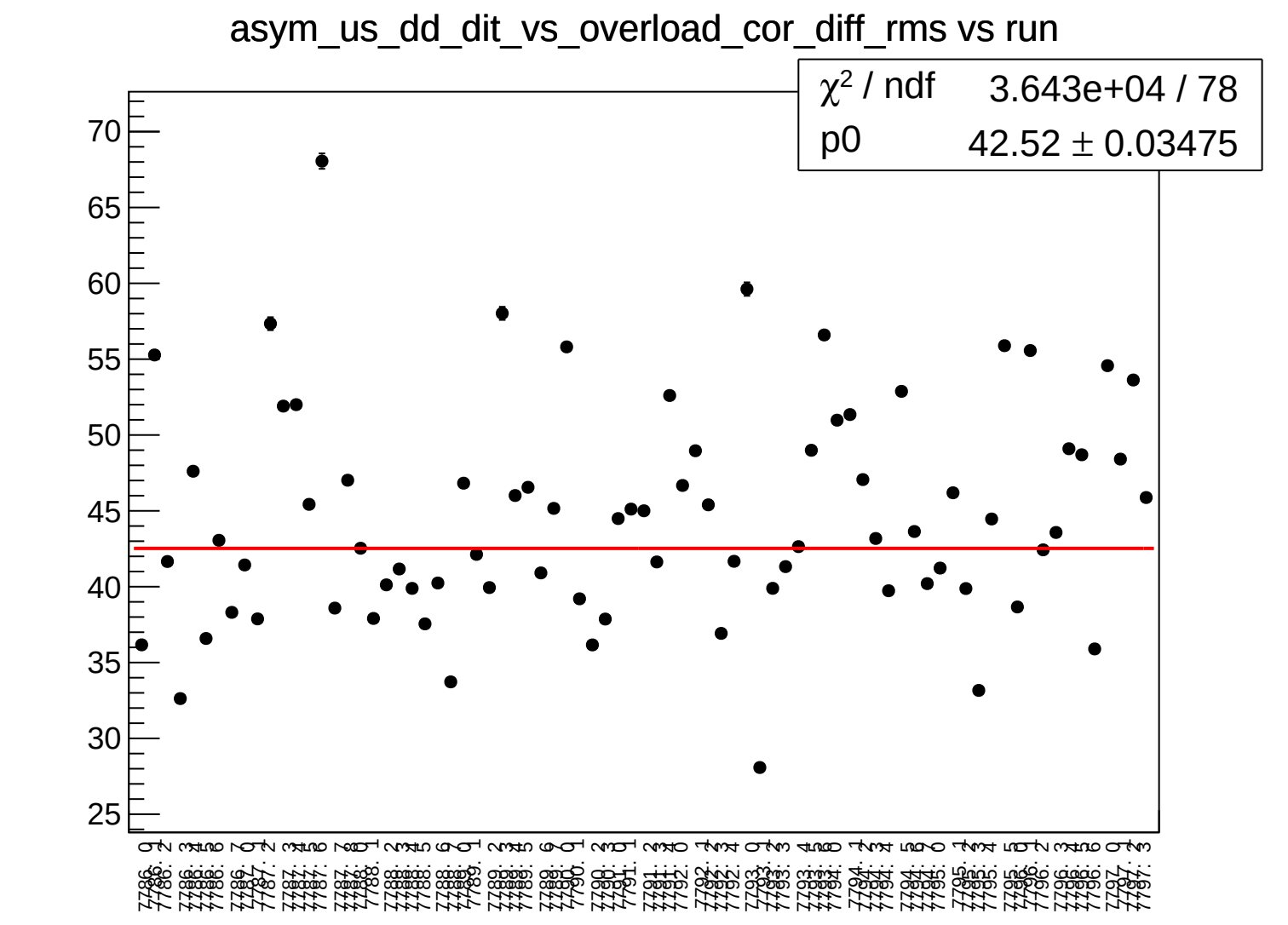

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.777e+04 / 78
p0 30.43 ± 0.02531
50
45
40
35
30
25
20
15

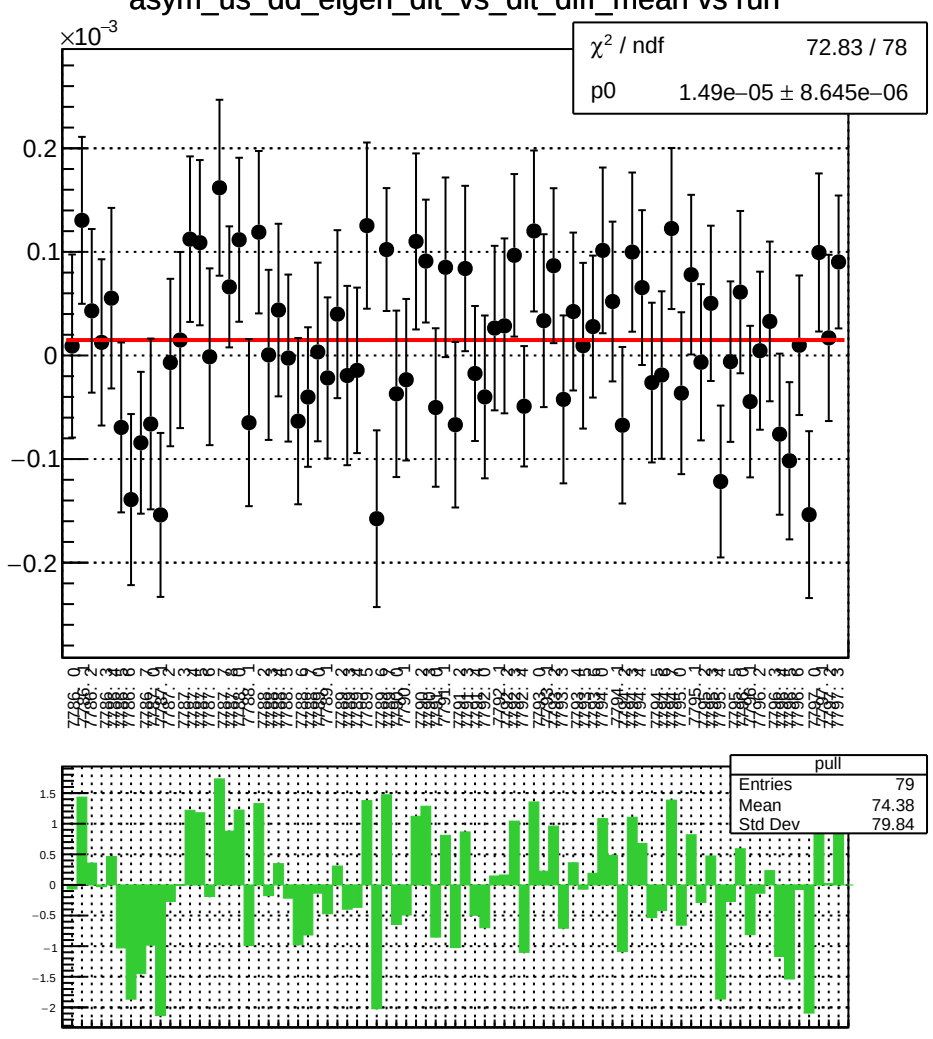

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.29 / 78
p0 −0.07677 ± 0.03579
pull
Entries 79
Mean 140.1
Std Dev 0

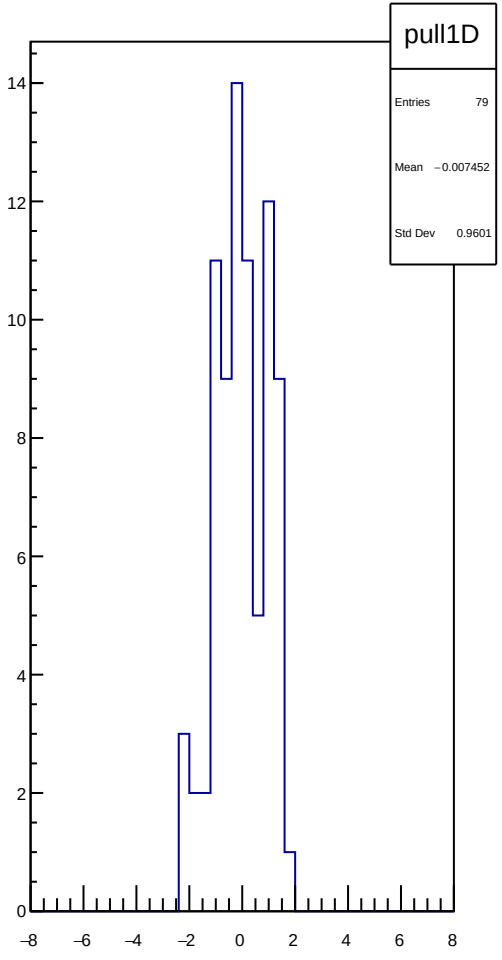

pull1D
Entries 79
Mean 0.02976
Std Dev 0.8436

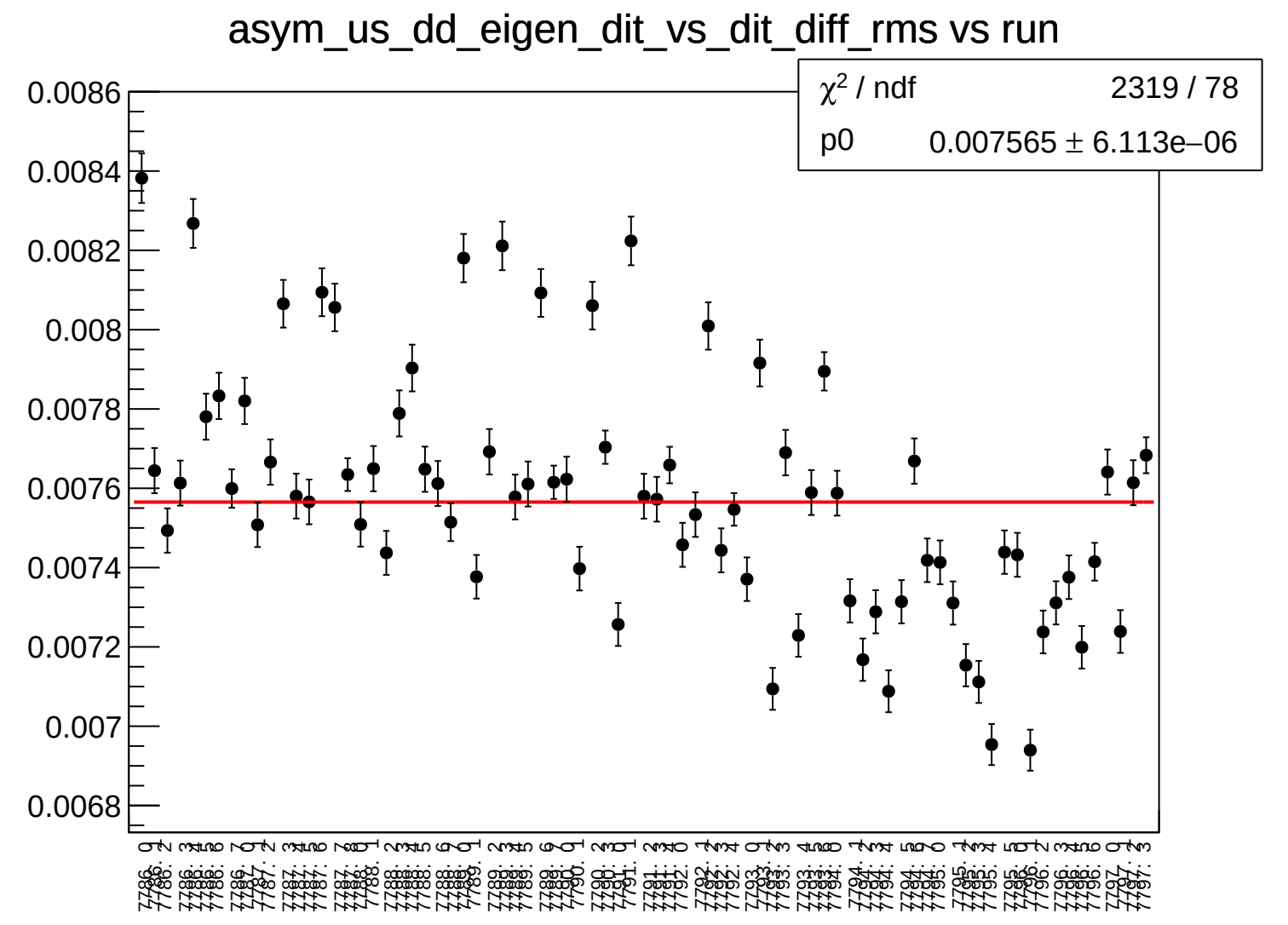

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.777e+04 / 78
p0 30.43 ± 0.02531
50
45
40
35
30
25
20
15

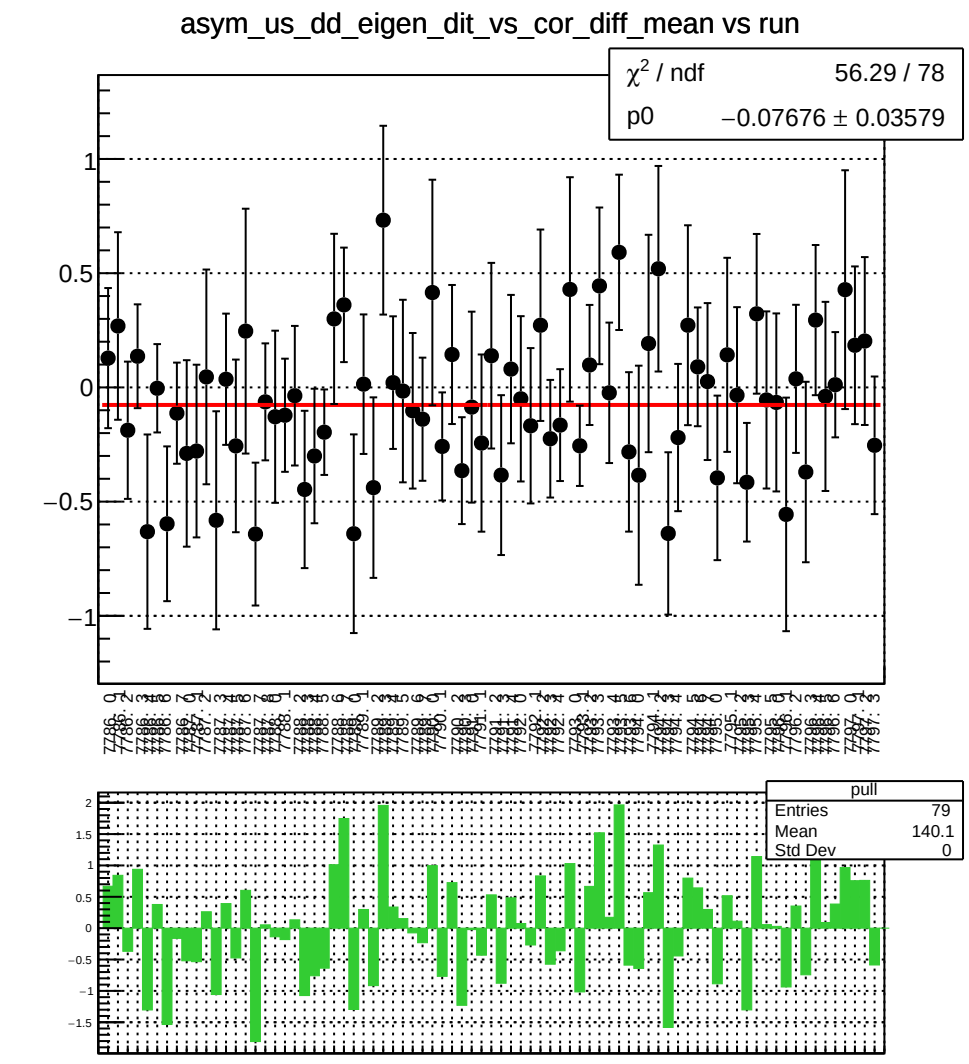

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 66.9 / 78
p0 −0.02184 ± 0.04915
pull
Entries 79
Mean 142.8
Std Dev 0
pull1D
Entries 79
Mean 0.04343
Std Dev 0.9192

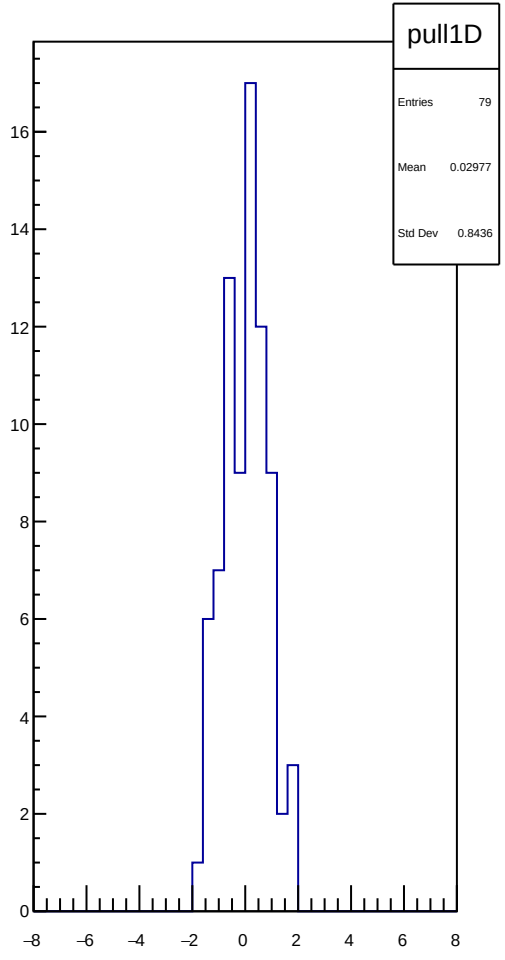

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.643e+04 / 78
p0 42.52 ± 0.03475
70
65
60
55
50
45
40
35
30
25

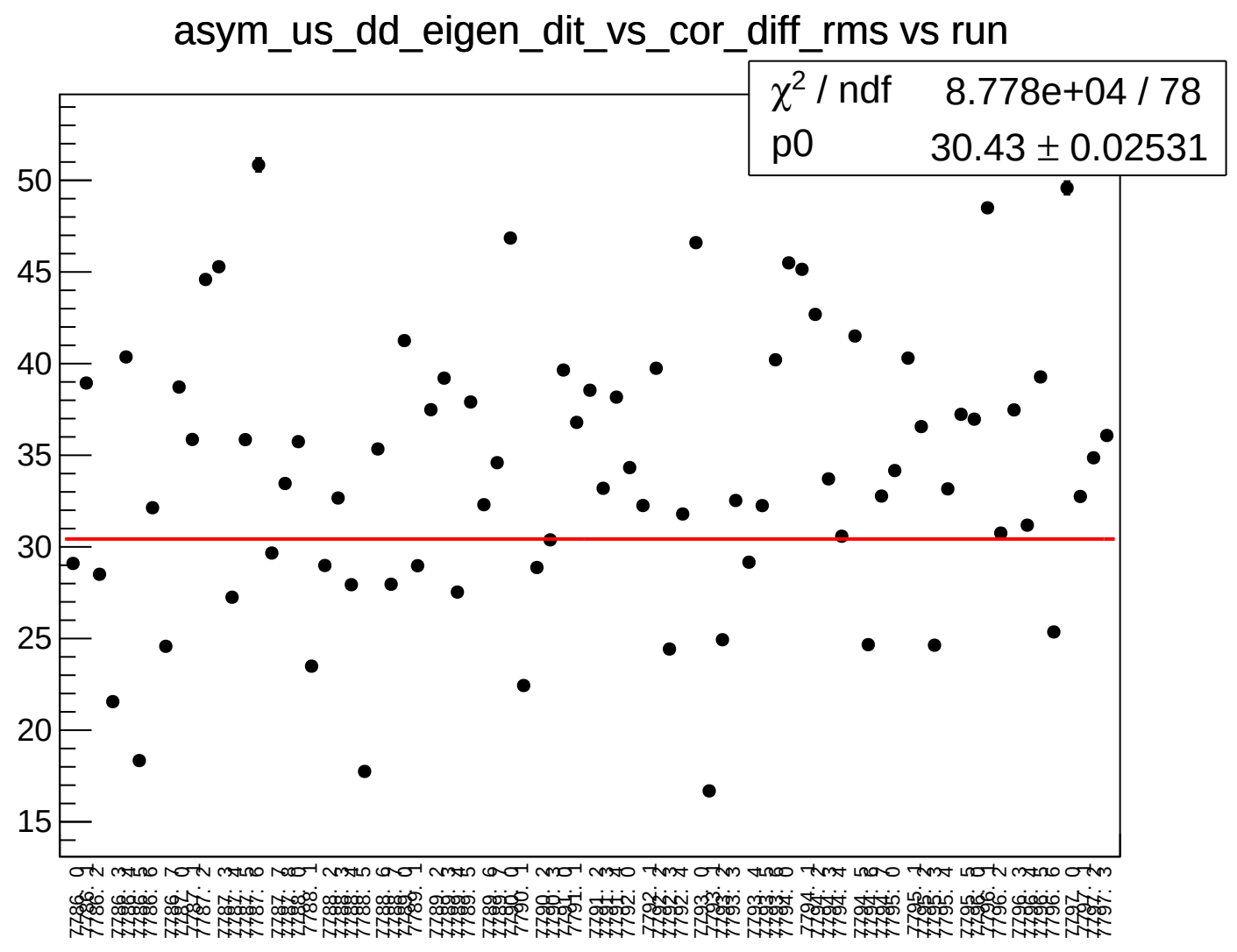

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.83 / 78
p0 1.49e−05 ± 8.645e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 79
Mean 74.38
Std Dev 79.84
1.5
1
0.5
0
−0.5
−1
−1.5
−2

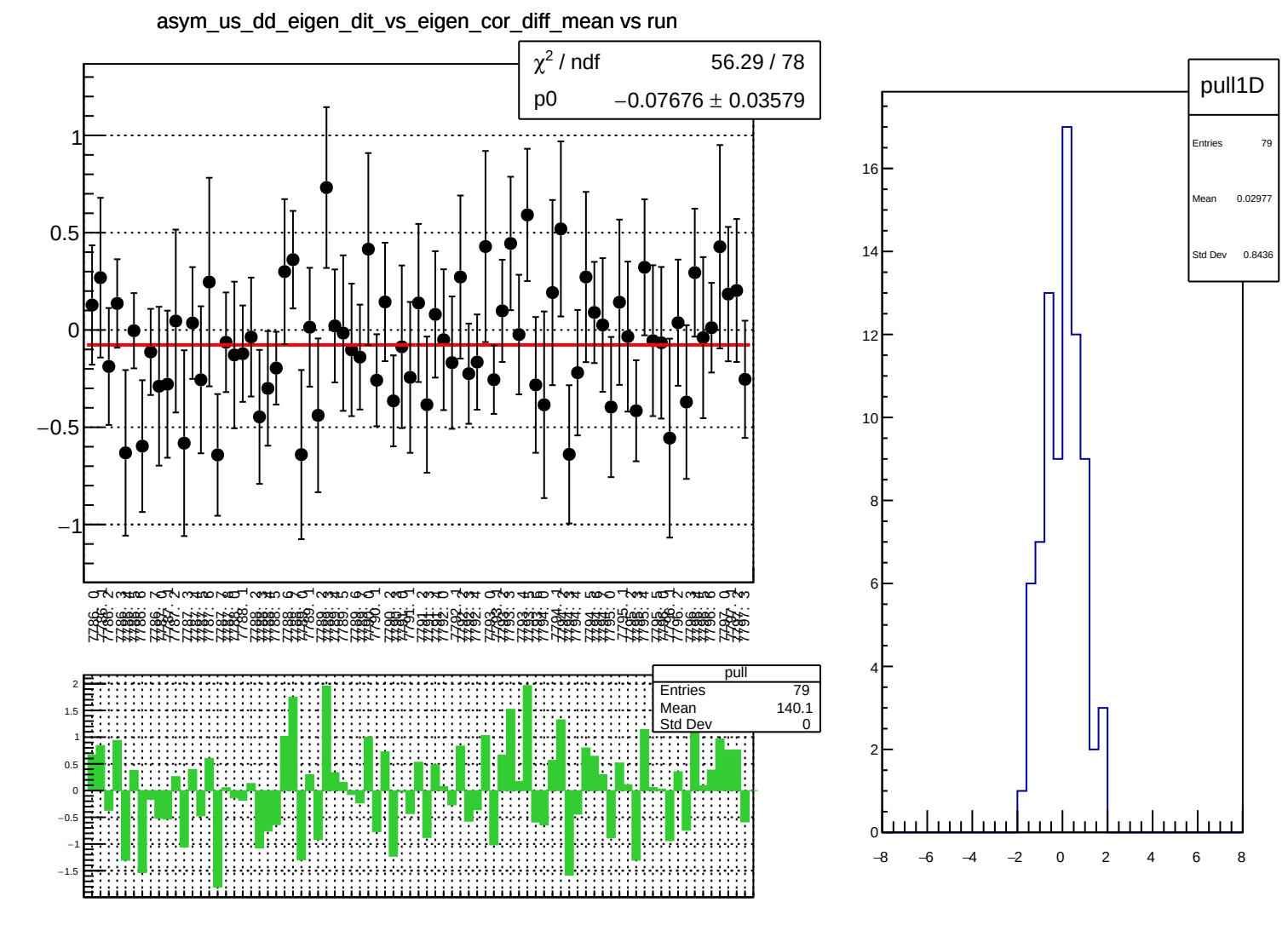

pull1D
Entries 79
Mean −0.007452
Std Dev 0.9601
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

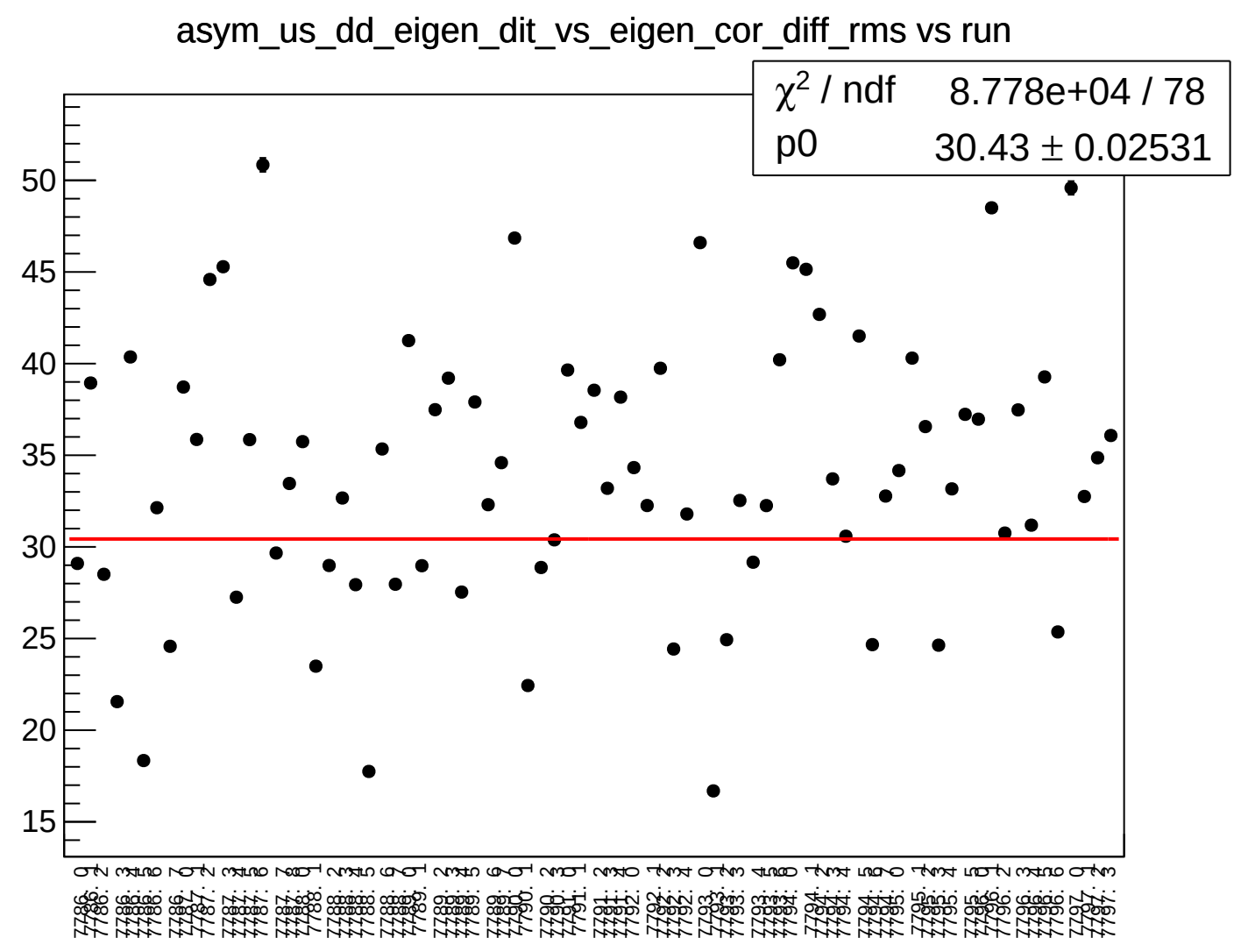

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2319 / 78
p0 0.007565 ± 6.113e−06
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068

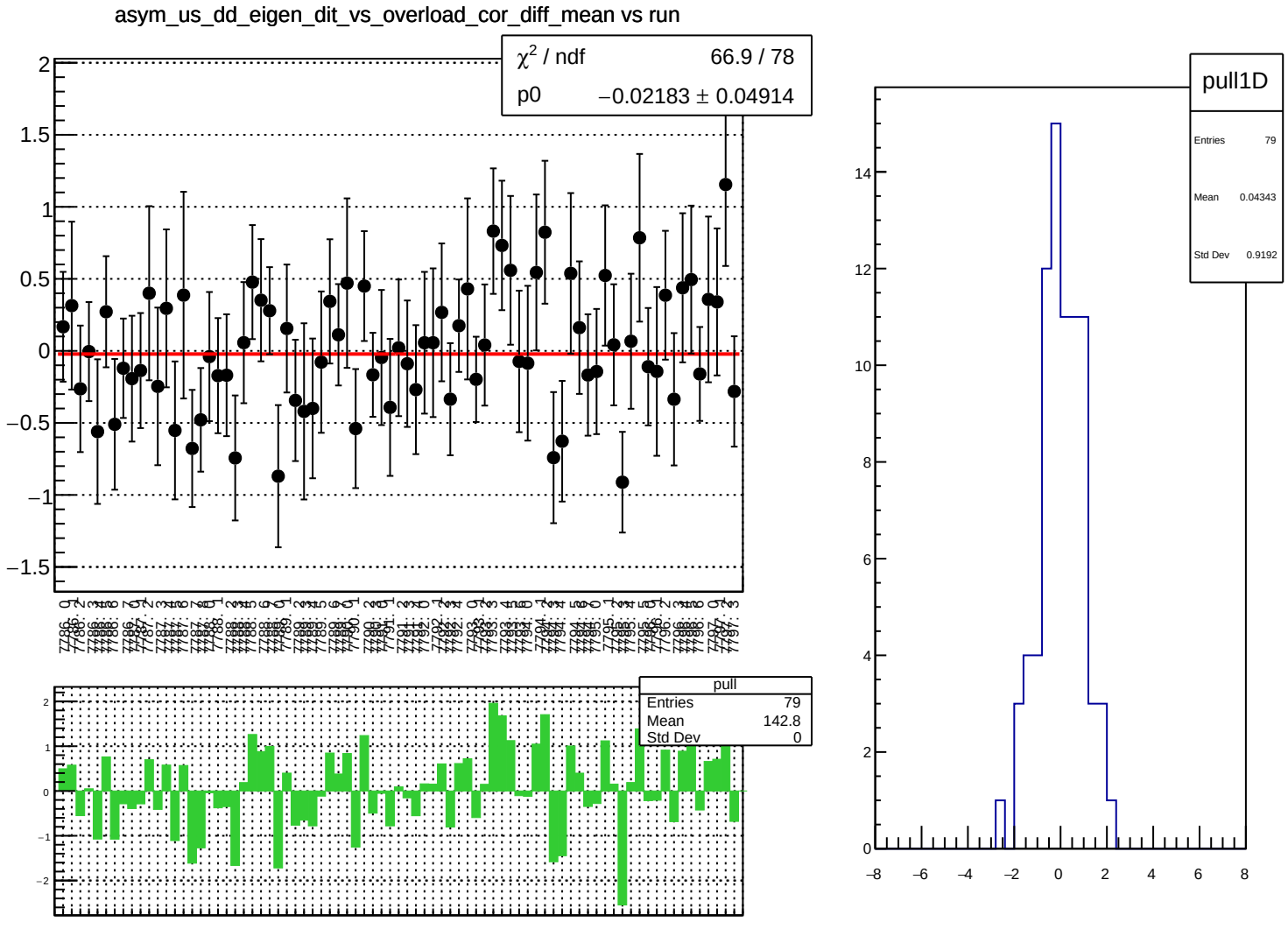

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56.29 / 78
p0 −0.07676 ± 0.03579
pull
Entries 79
Mean 140.1
Std Dev 0

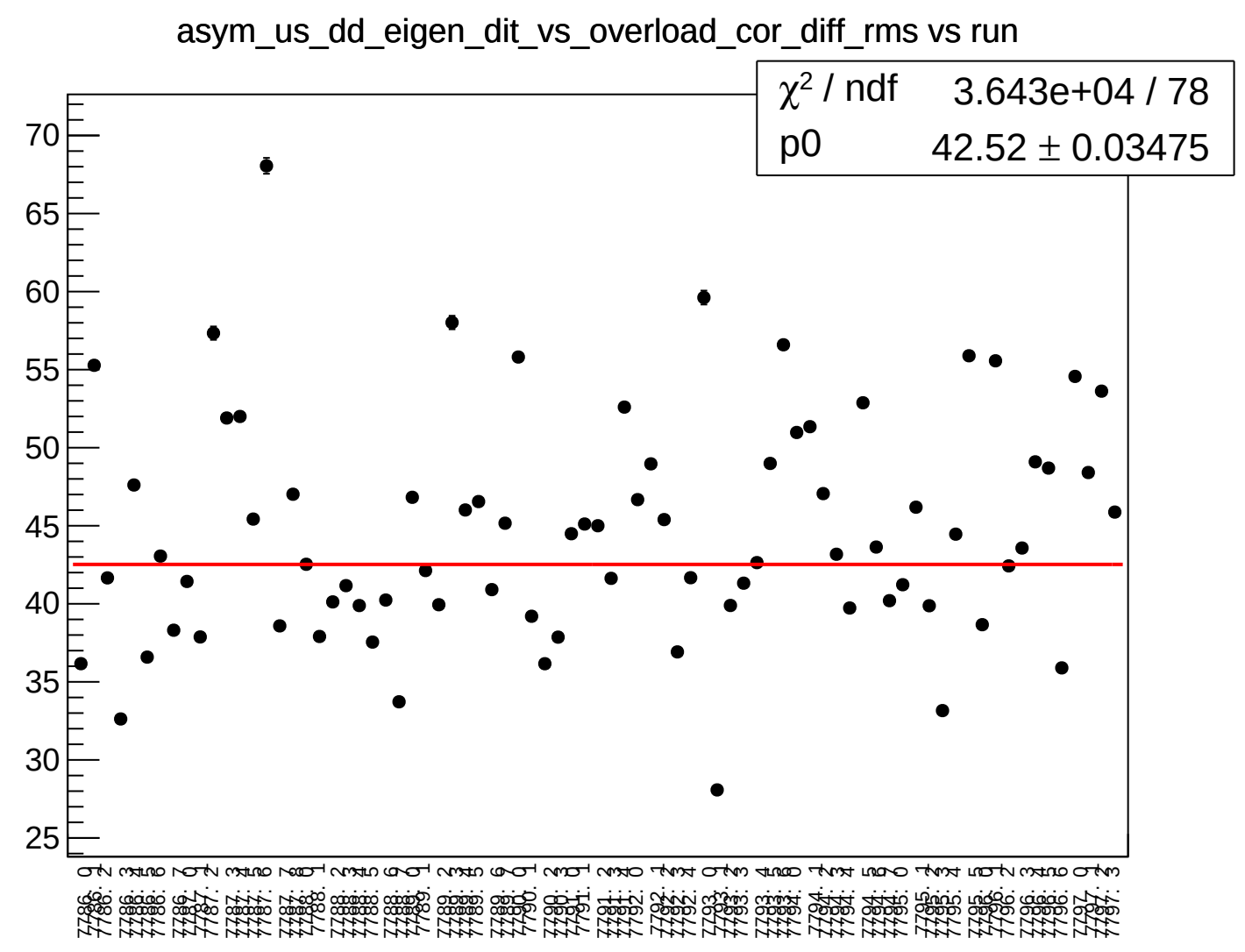

pull1D
Entries 79
Mean 0.02977
Std Dev 0.8436

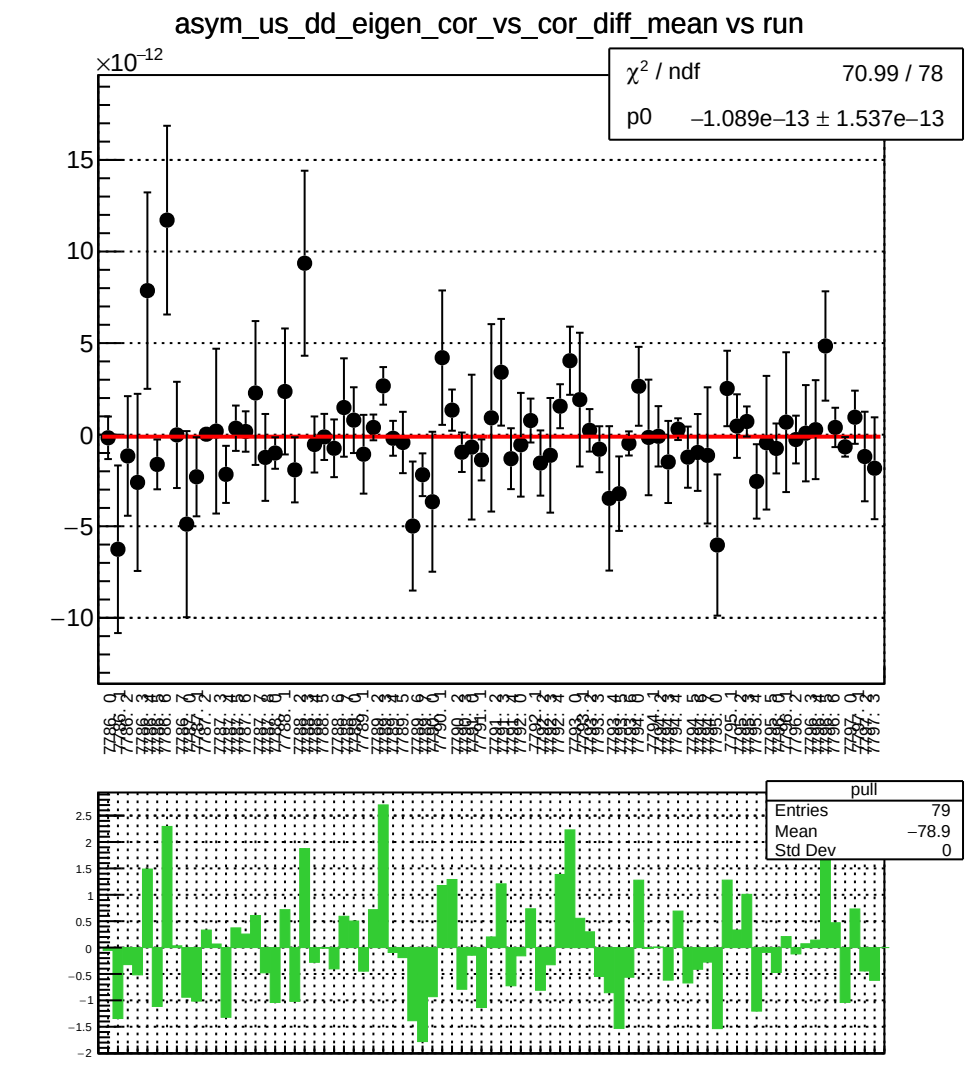

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.778e+04 / 78
p0 30.43 ± 0.02531
50
45
40
35
30
25
20
15

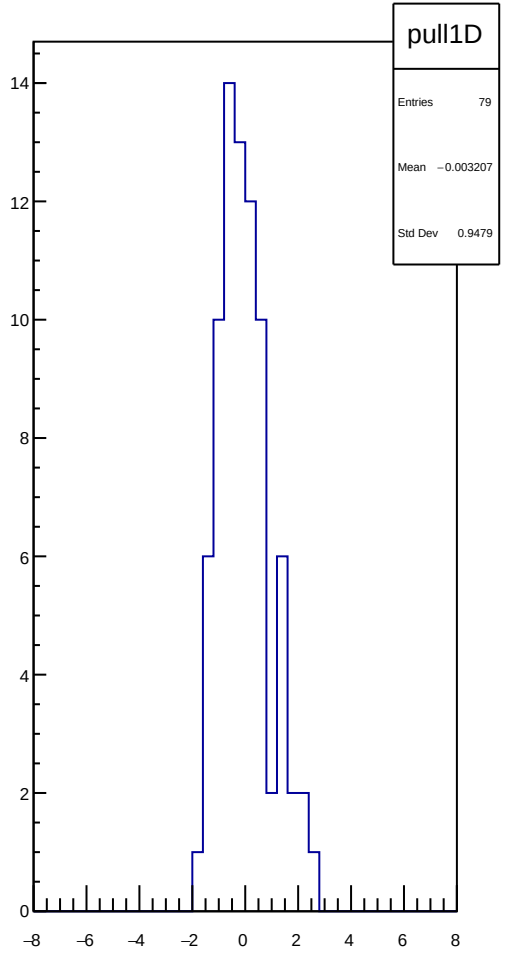

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.29 / 78
p0 −0.07676 ± 0.03579
pull
Entries 79
Mean 140.1
Std Dev 0
pull1D
Entries 79
Mean 0.02977
Std Dev 0.8436

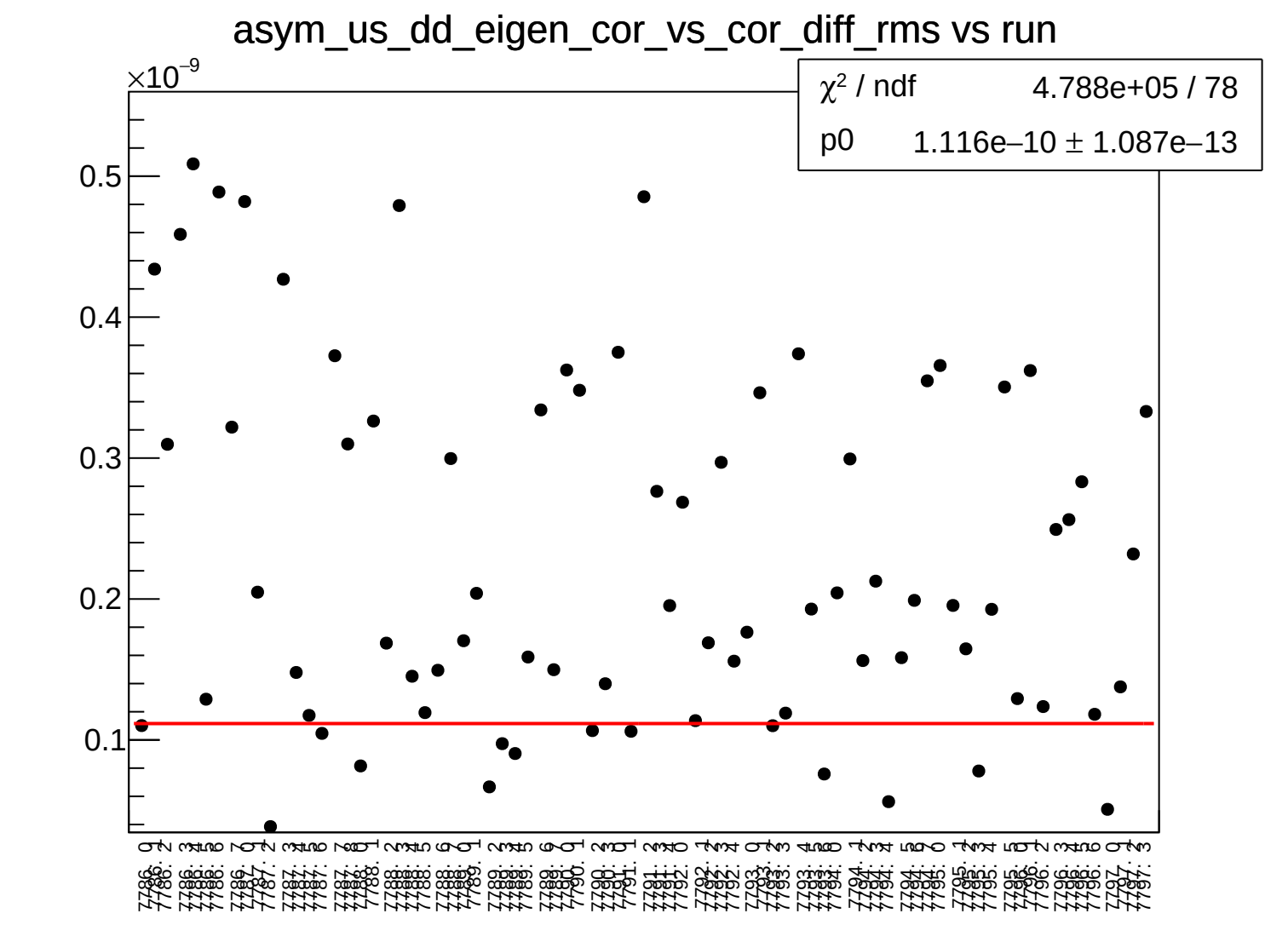

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.778e+04 / 78
p0 30.43 ± 0.02531
50
45
40
35
30
25
20
15

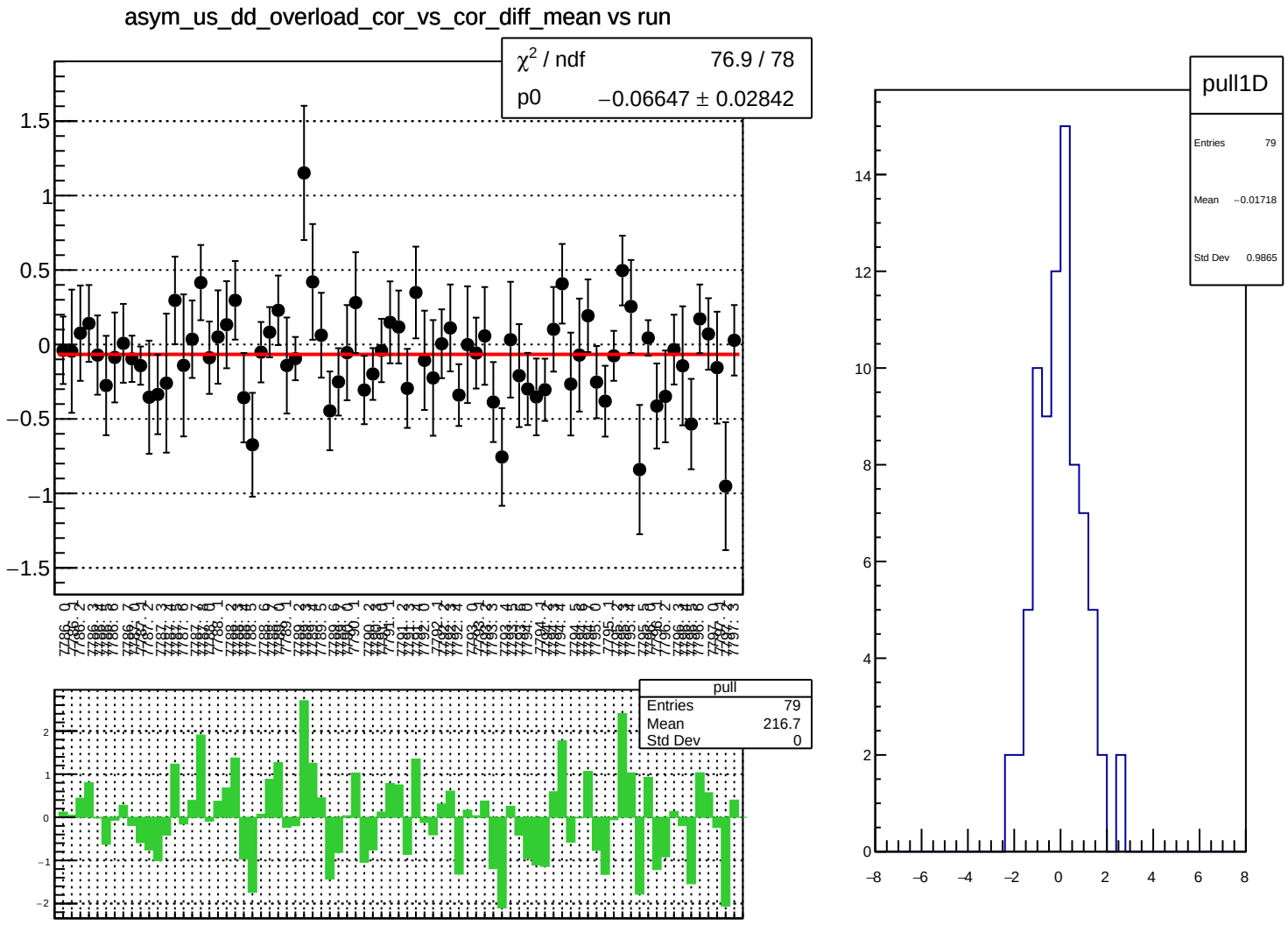

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 66.9 / 78
p0 −0.02183 ± 0.04914
pull
Entries 79
Mean 142.8
Std Dev 0
pull1D
Entries 79
Mean 0.04343
Std Dev 0.9192

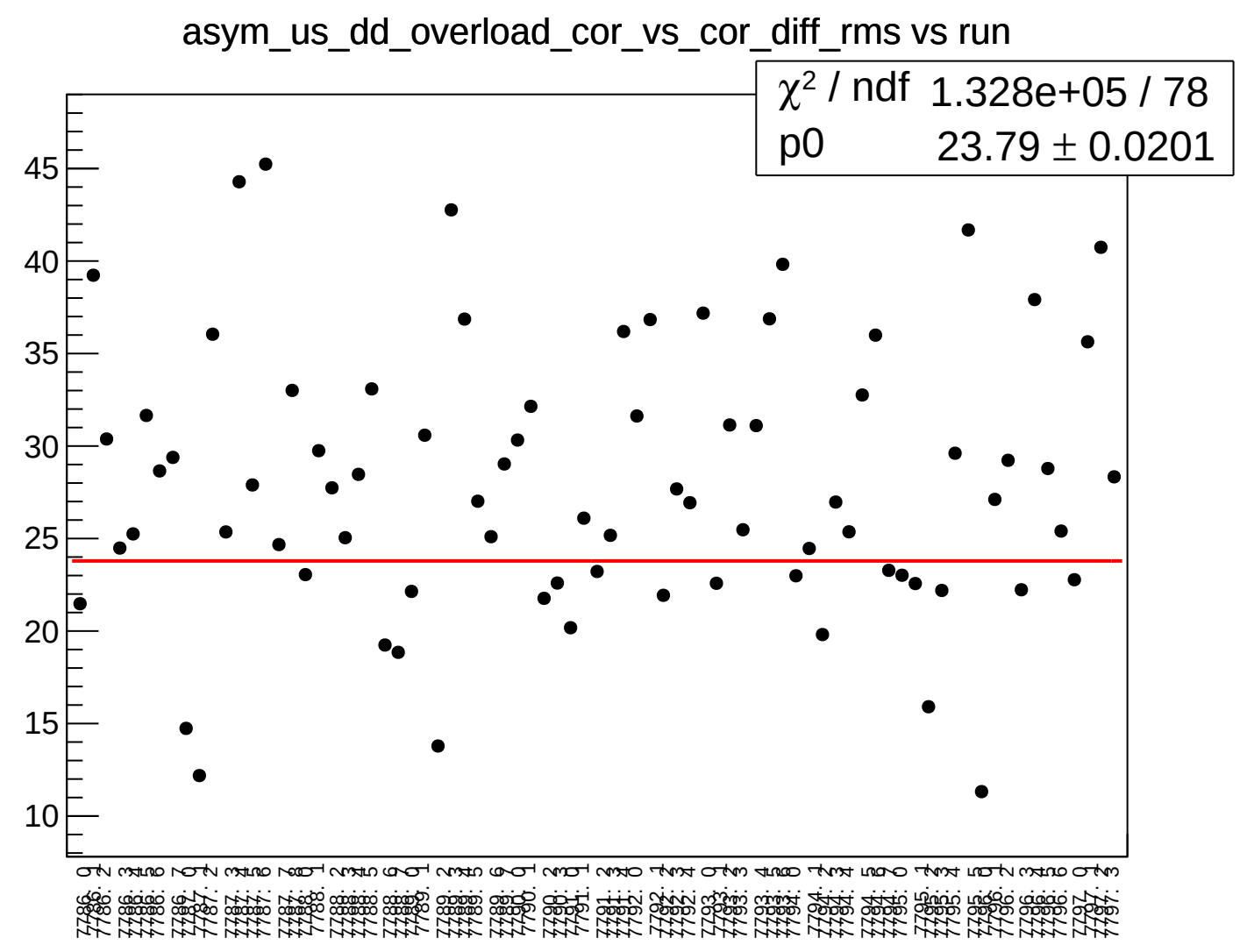

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.643e+04 / 78
p0 42.52 ± 0.03475
70
65
60
55
50
45
40
35
30
25

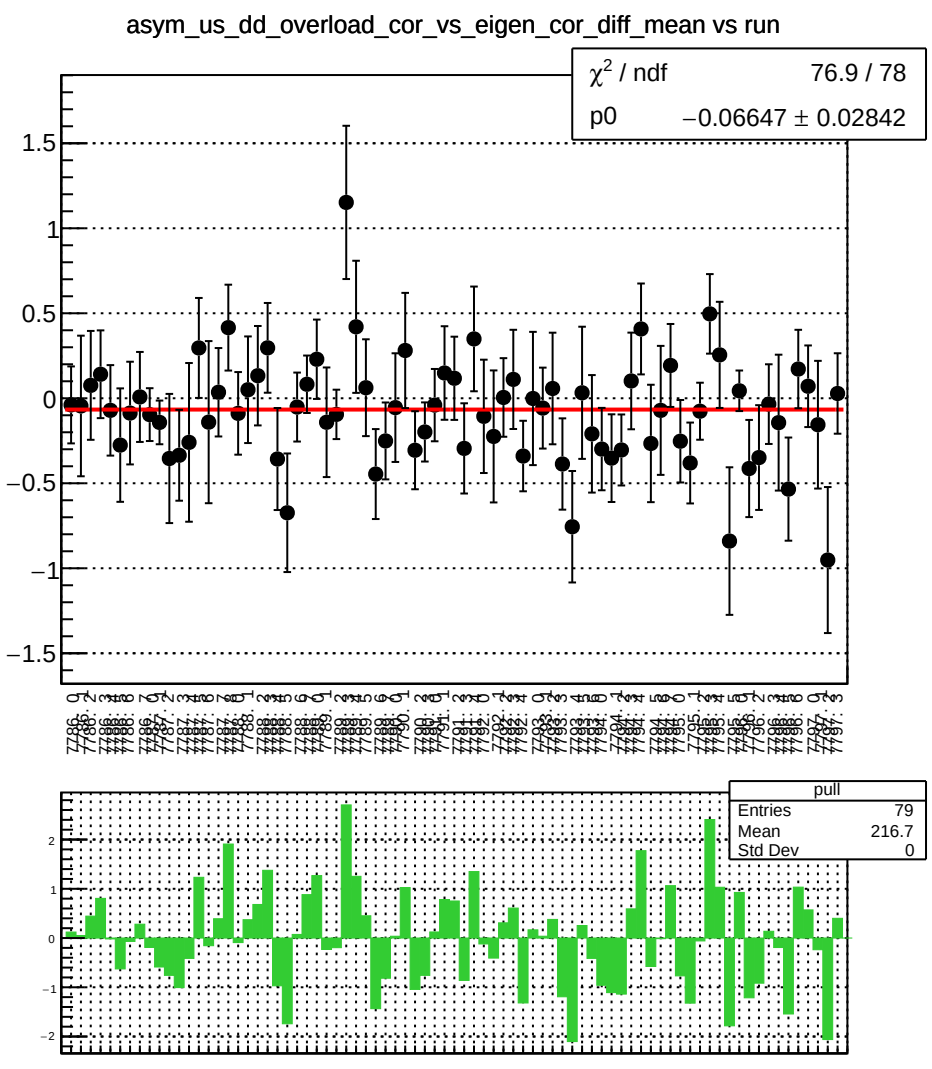

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.99 / 78
p0 −1.089e−13 ± 1.537e−13
pull
Entries 79
Mean −78.9
Std Dev 0

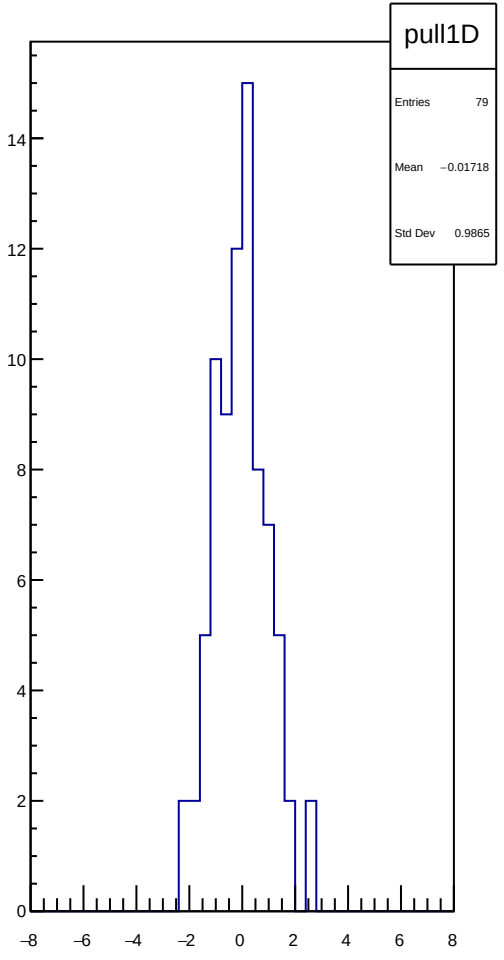

pull1D
Entries 79
Mean −0.003207
Std Dev 0.9479

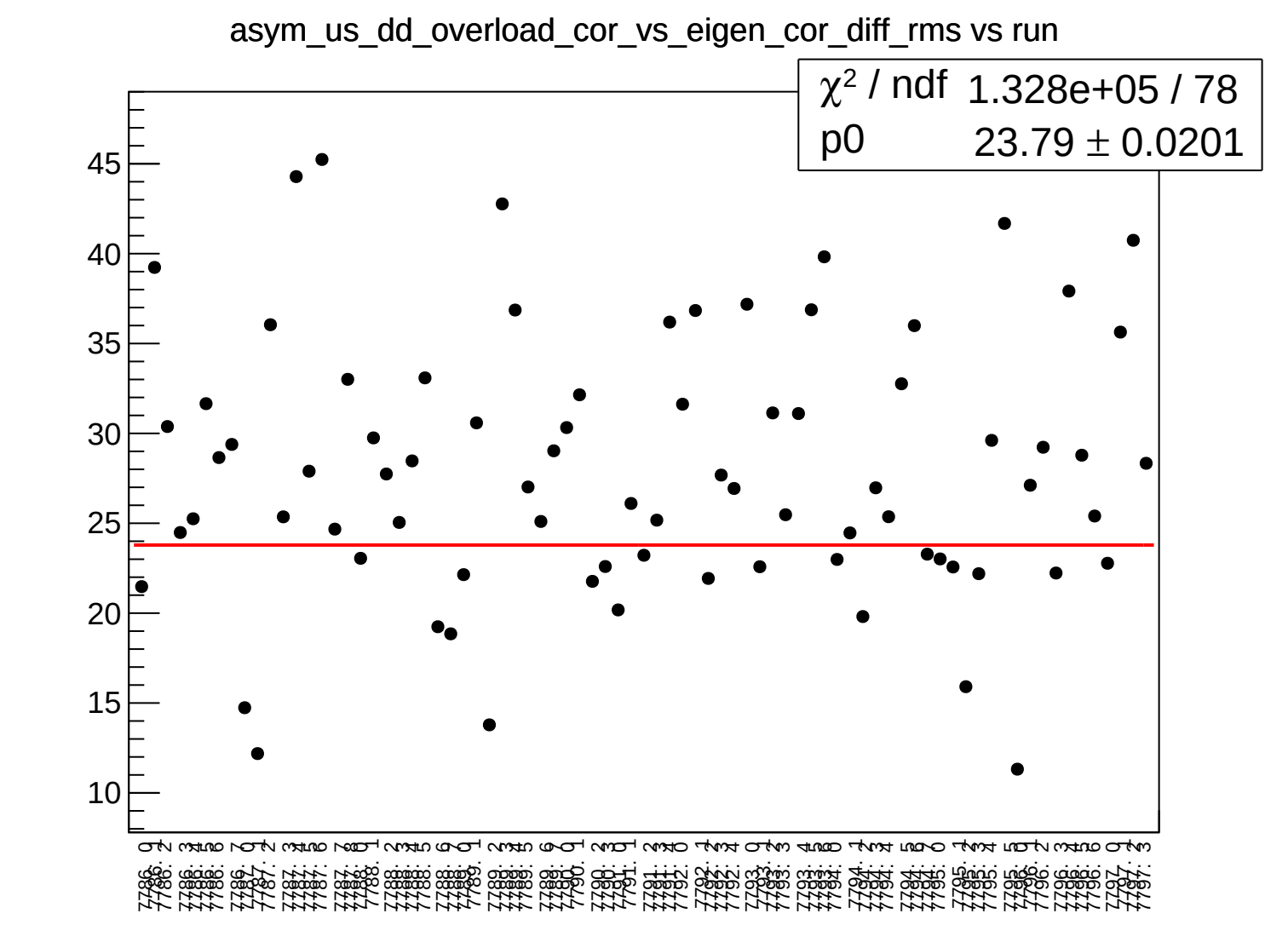

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.788e+05 / 78
p0 1.116e−10 ± 1.087e−13
0.5
0.4
0.3
0.2
0.1

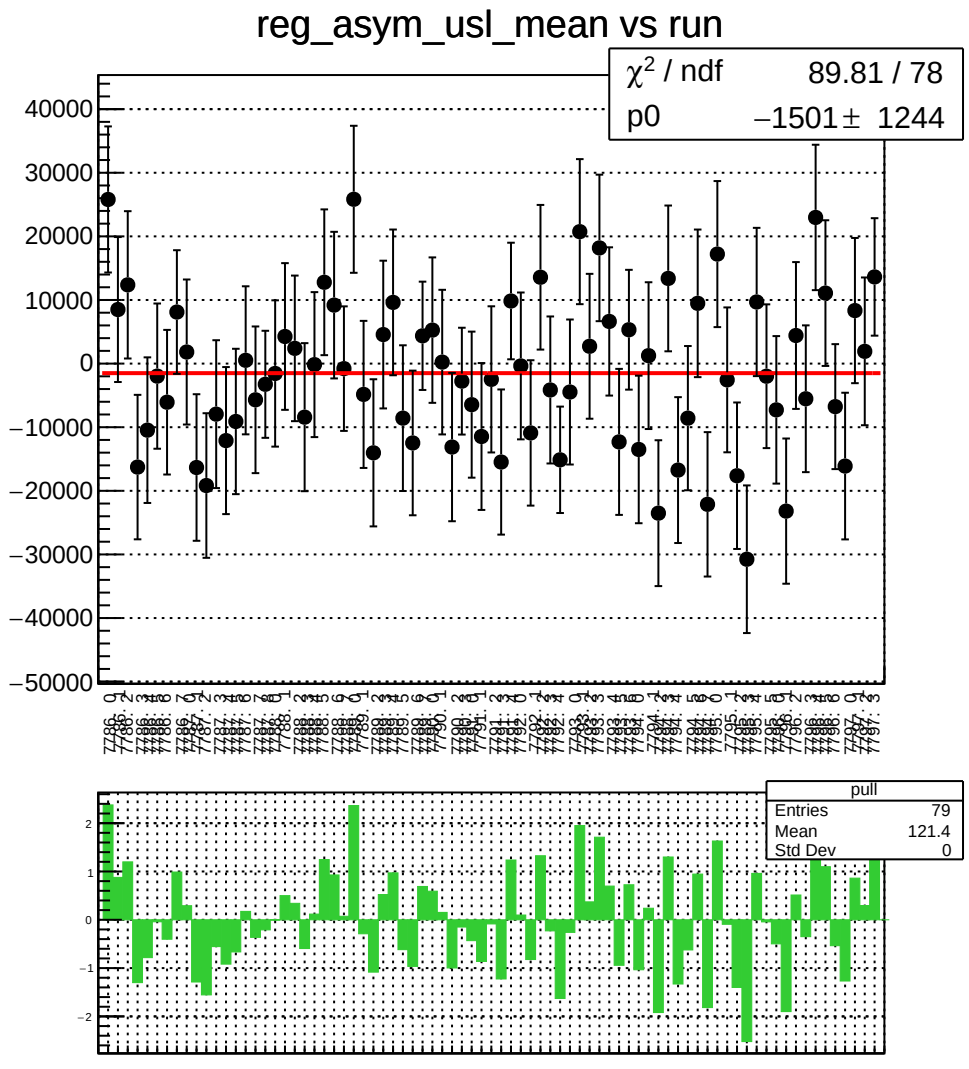

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 76.9 / 78
p0 −0.06647 ± 0.02842
pull
Entries 79
Mean 216.7
Std Dev 0
pull1D
Entries 79
Mean −0.01718
Std Dev 0.9865

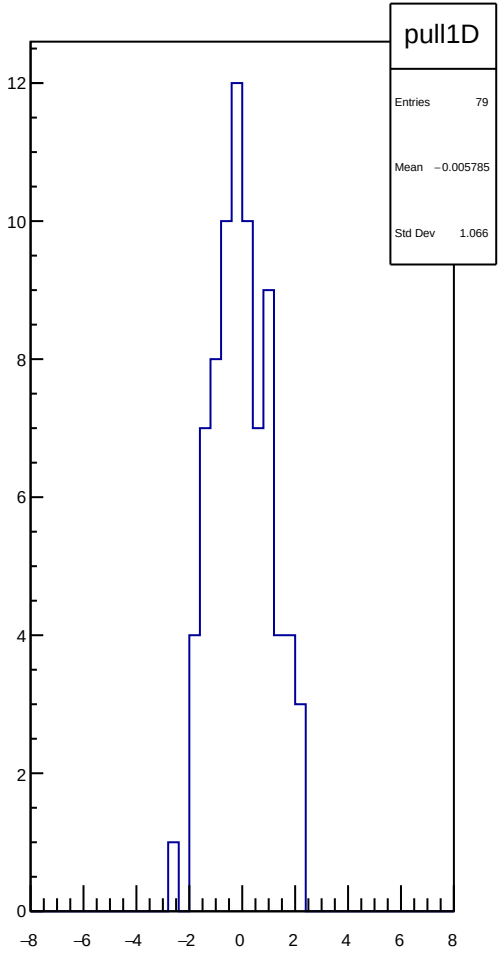

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.328e+05 / 78
p0 23.79 ± 0.0201
45
40
35
30
25
20
15
10

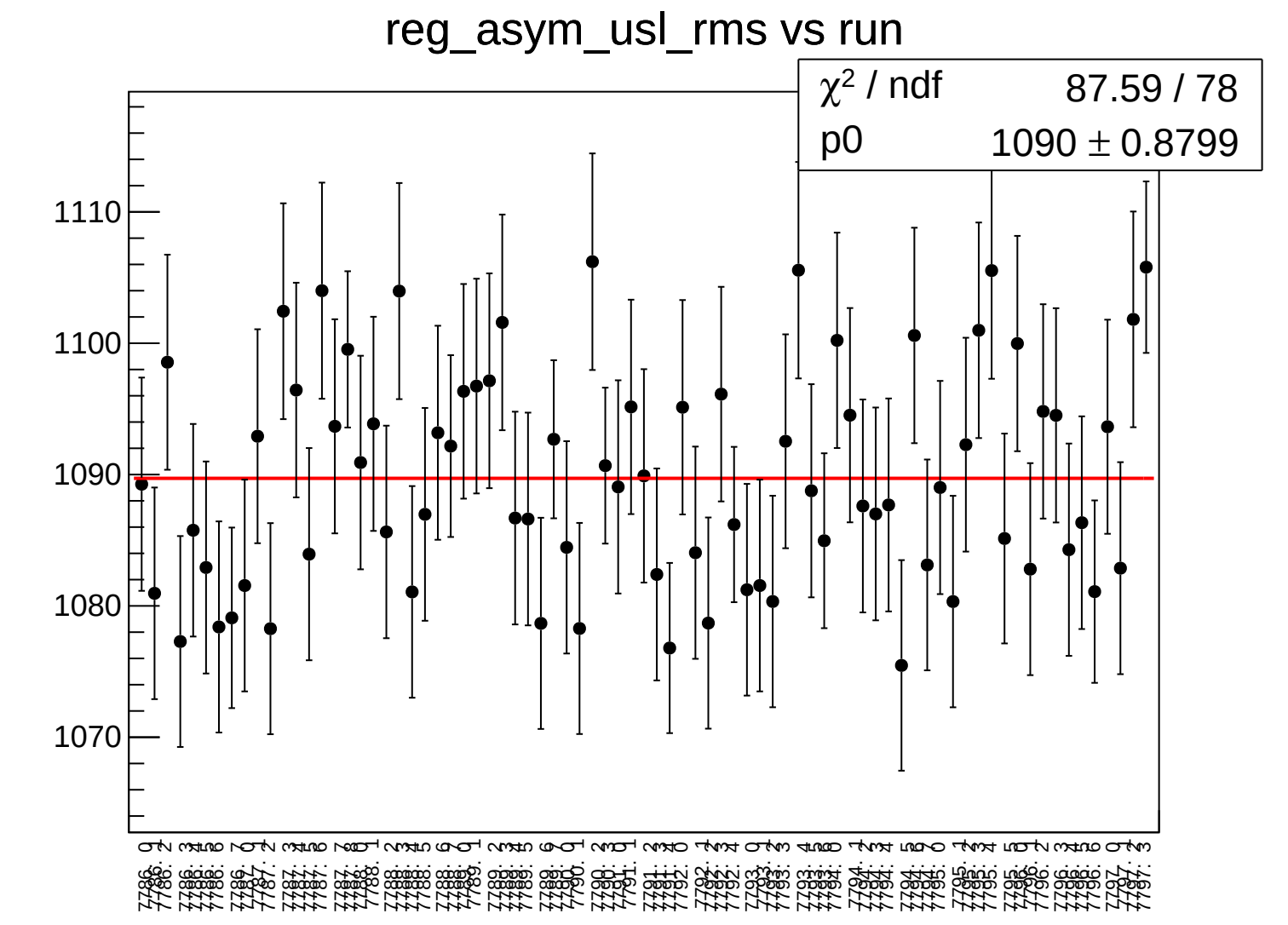

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.9 / 78
p0 −0.06647 ± 0.02842
pull
Entries 79
Mean 216.7
Std Dev 0

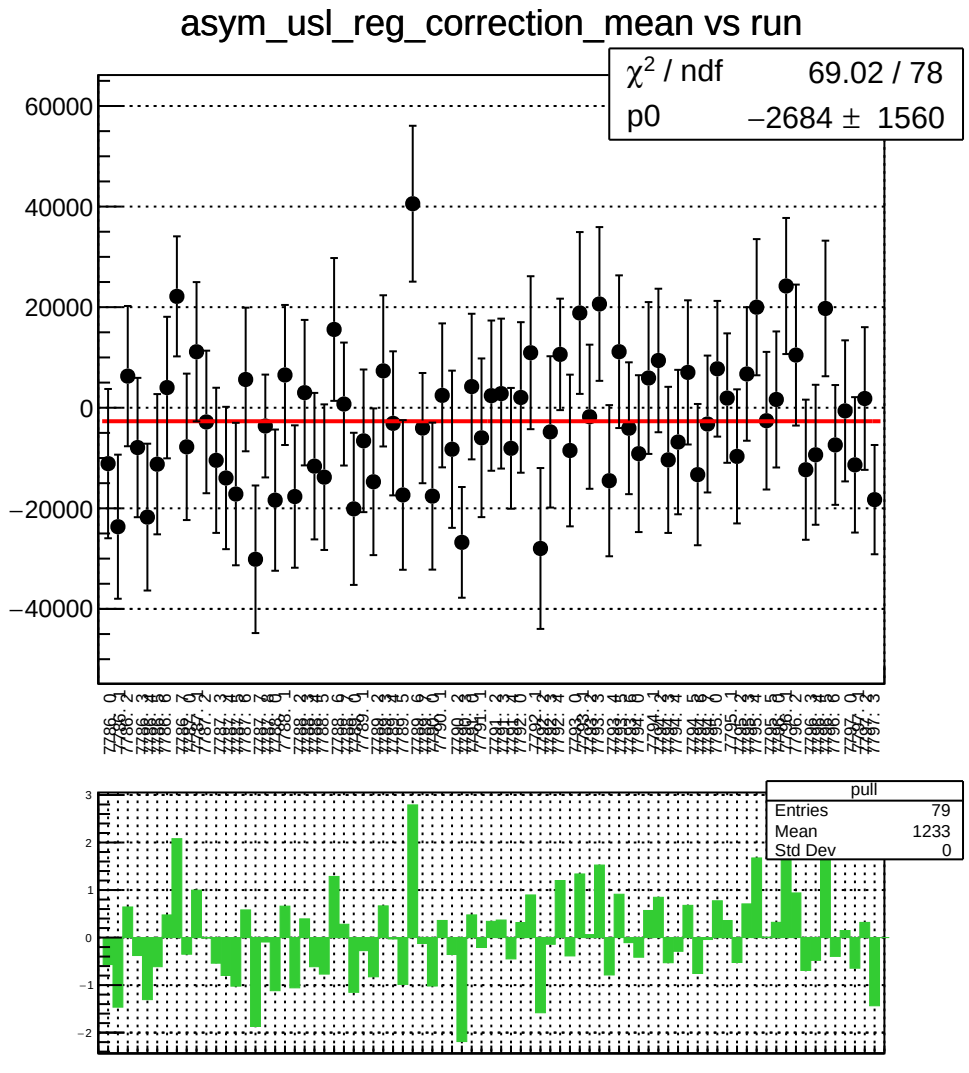

pull1D
Entries 79
Mean −0.01718
Std Dev 0.9865

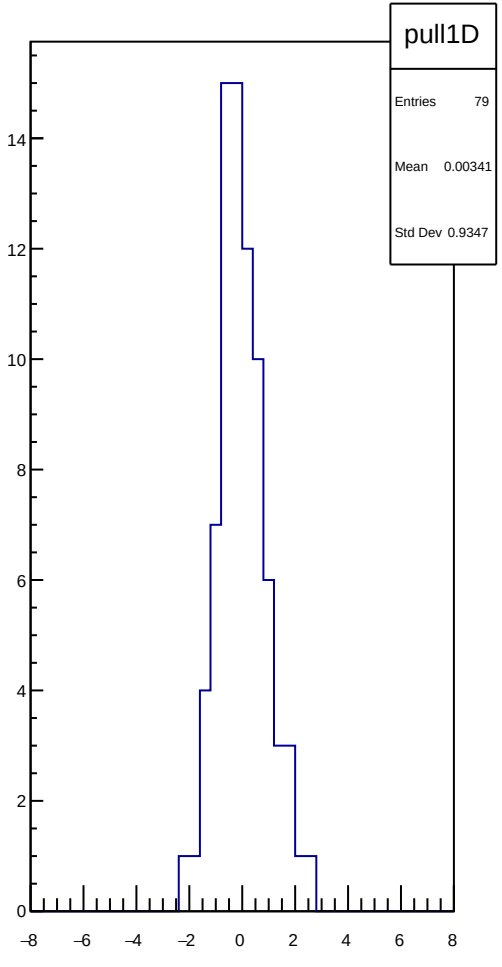

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.328e+05 / 78
p0 23.79 ± 0.0201
45
40
35
30
25
20
15
10

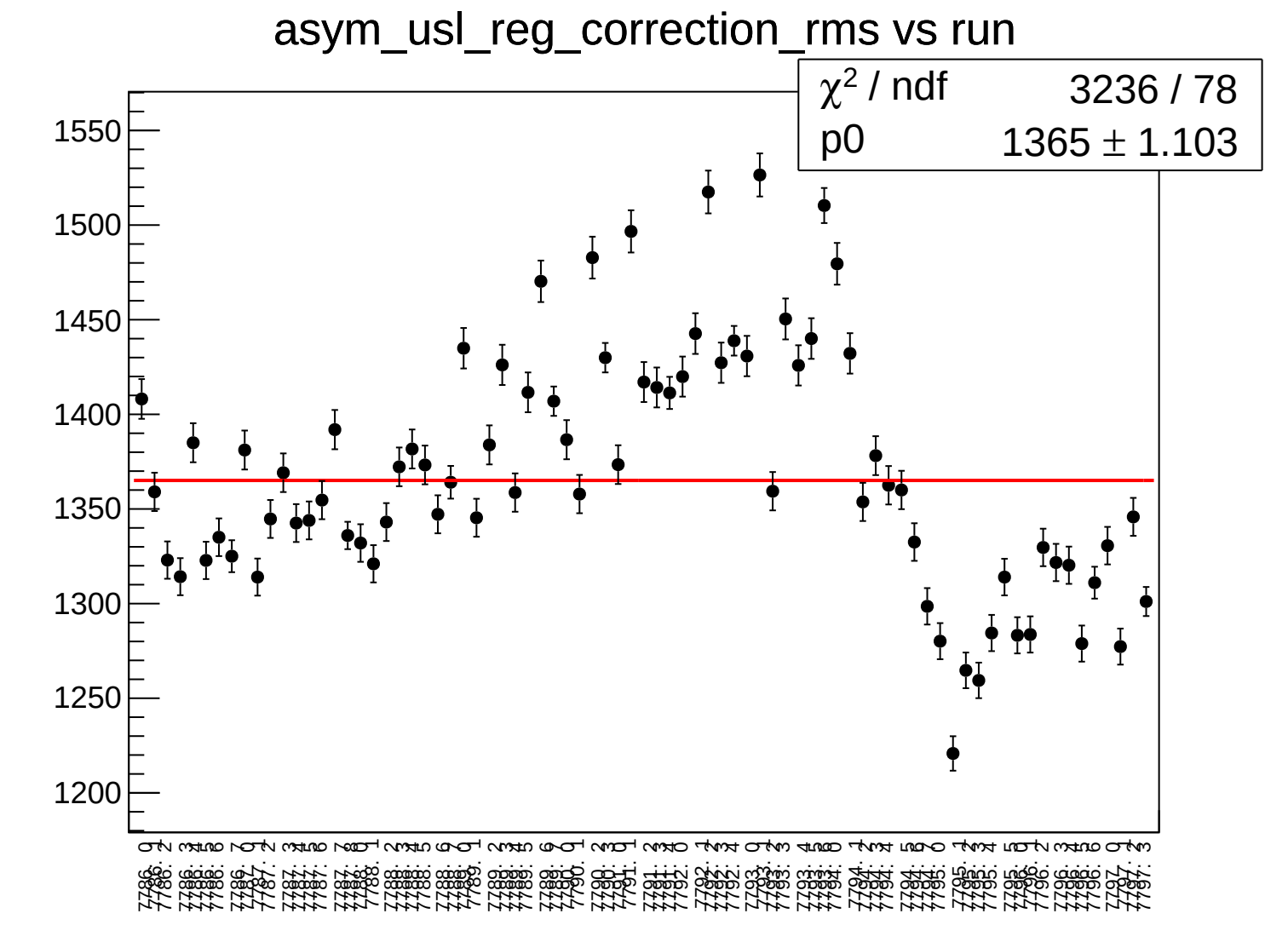

reg_asym_usl_mean vs run
χ² / ndf 89.81 / 78
p0 −1501 ± 1244
pull
Entries 79
Mean 121.4
Std Dev 0

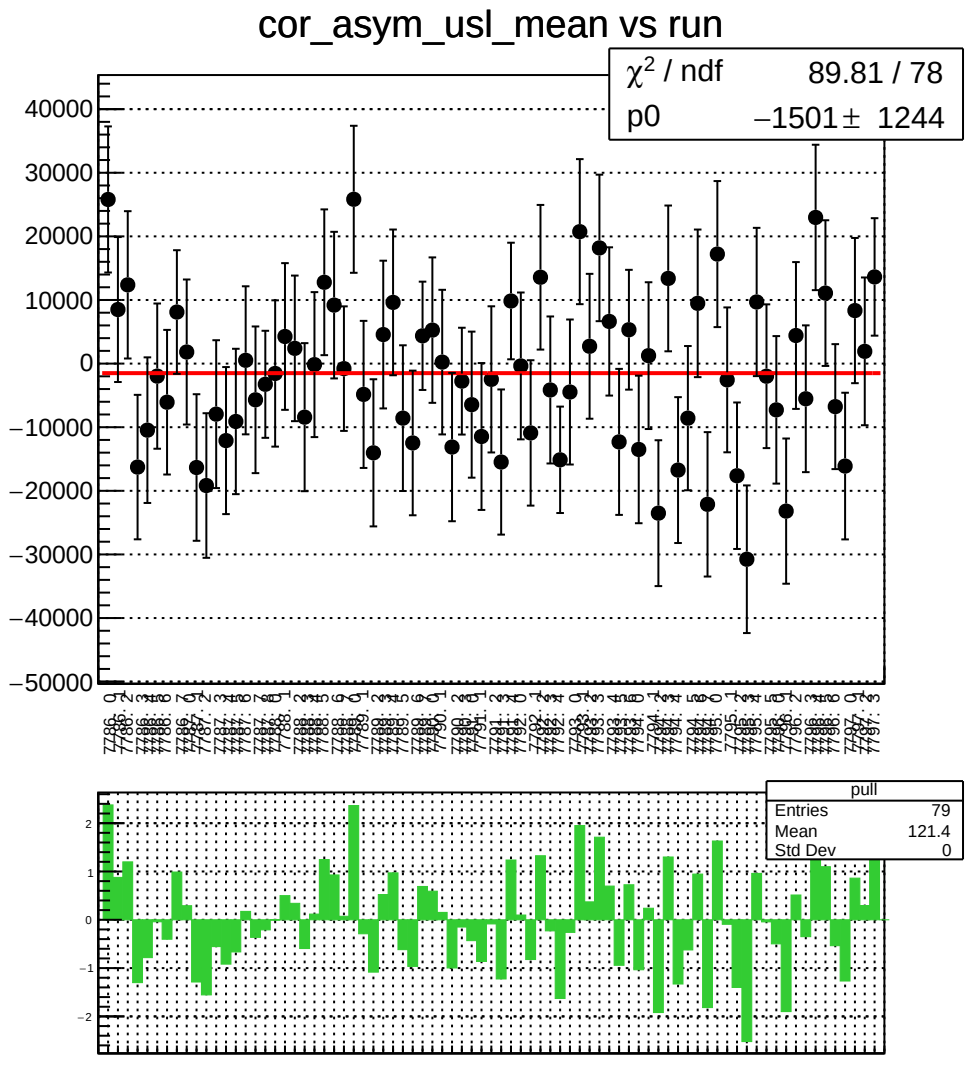

pull1D
Entries 79
Mean −0.005785
Std Dev 1.066

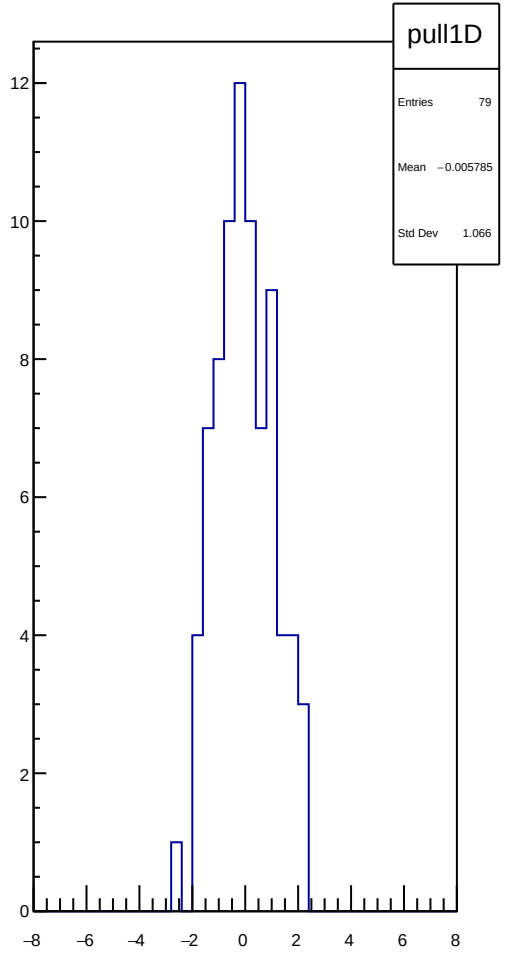

reg_asym_usl_rms vs run
χ^2 / ndf 87.59 / 78
p0 1090 ± 0.8799
1110
1100
1090
1080
1070

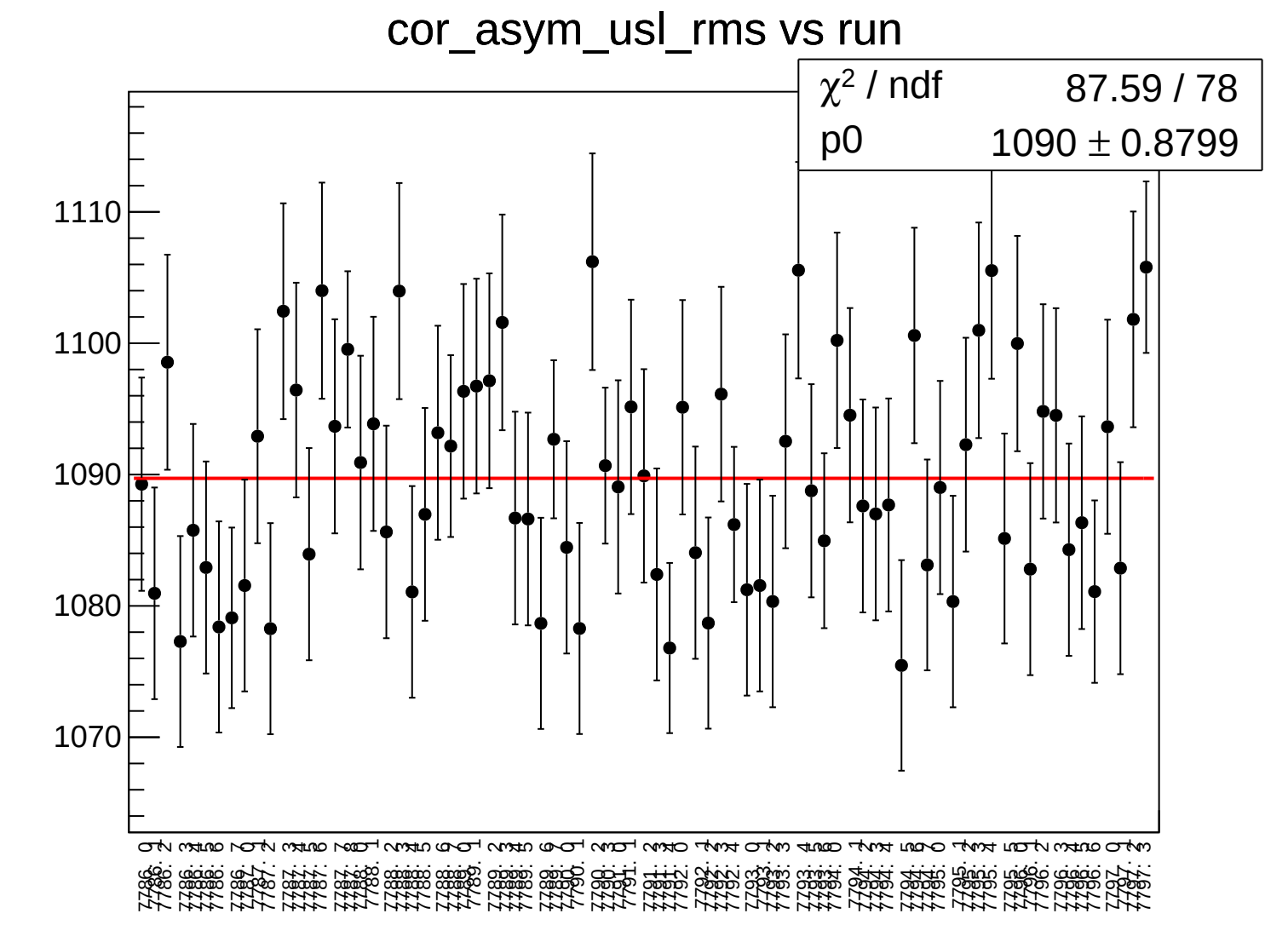

asym_usl_reg_correction_mean vs run
χ² / ndf 69.02 / 78
p0 −2684 ± 1560
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 1233
Std Dev 0

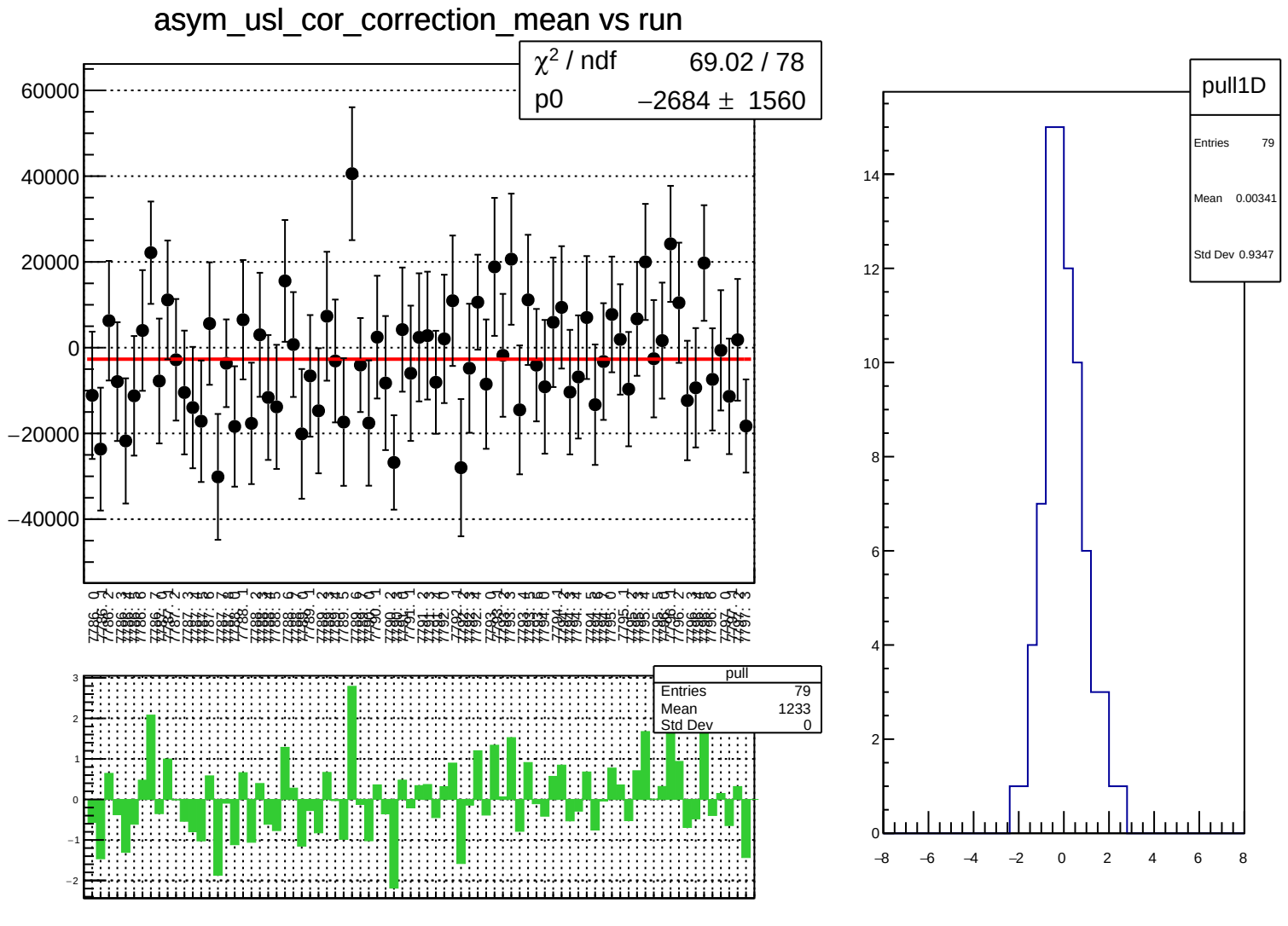

pull1D
Entries 79
Mean 0.00341
Std Dev 0.9347
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

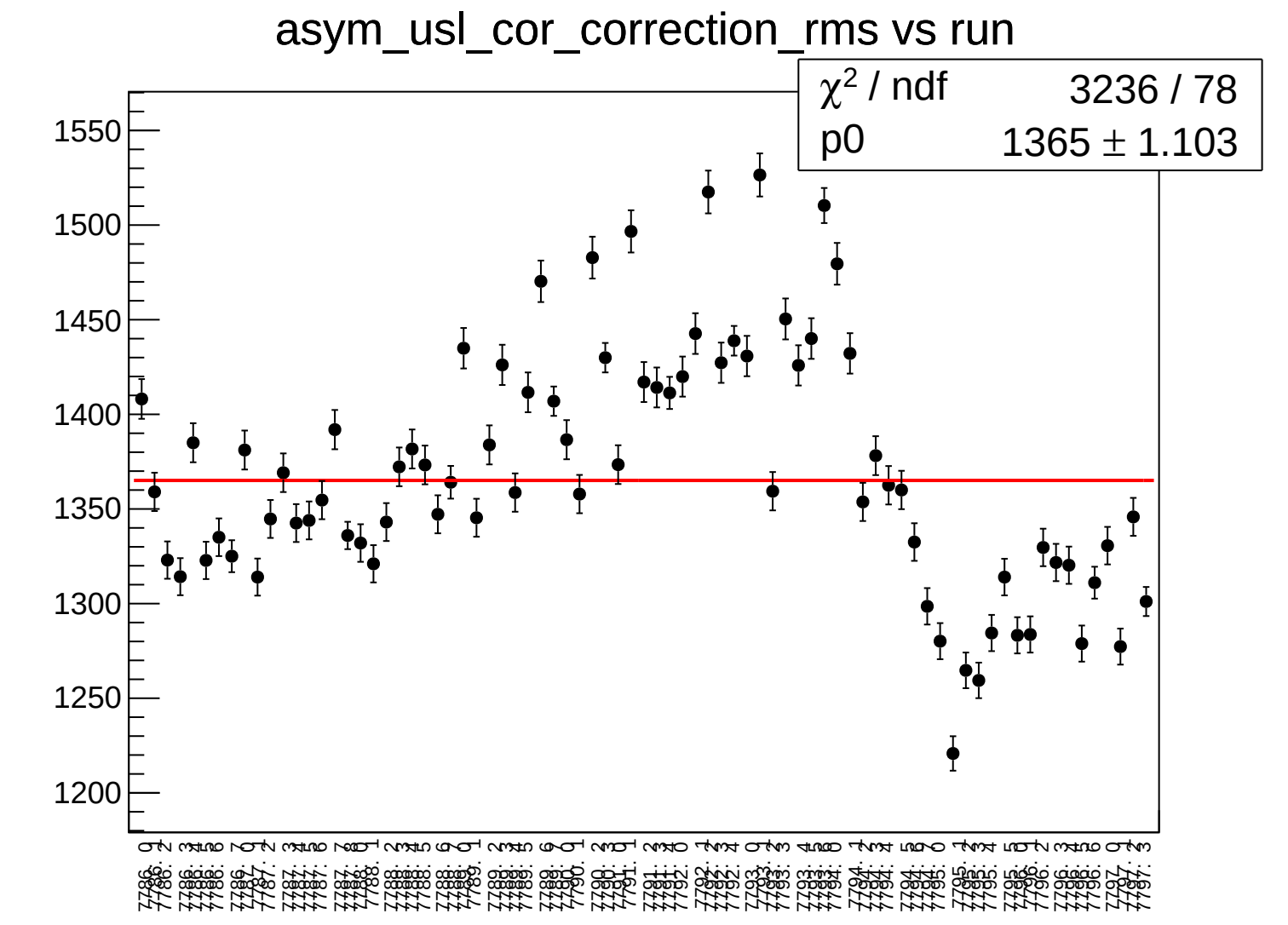

asym_usl_reg_correction_rms vs run
χ² / ndf 3236 / 78
p0 1365 ± 1.103
1550
1500
1450
1400
1350
1300
1250
1200

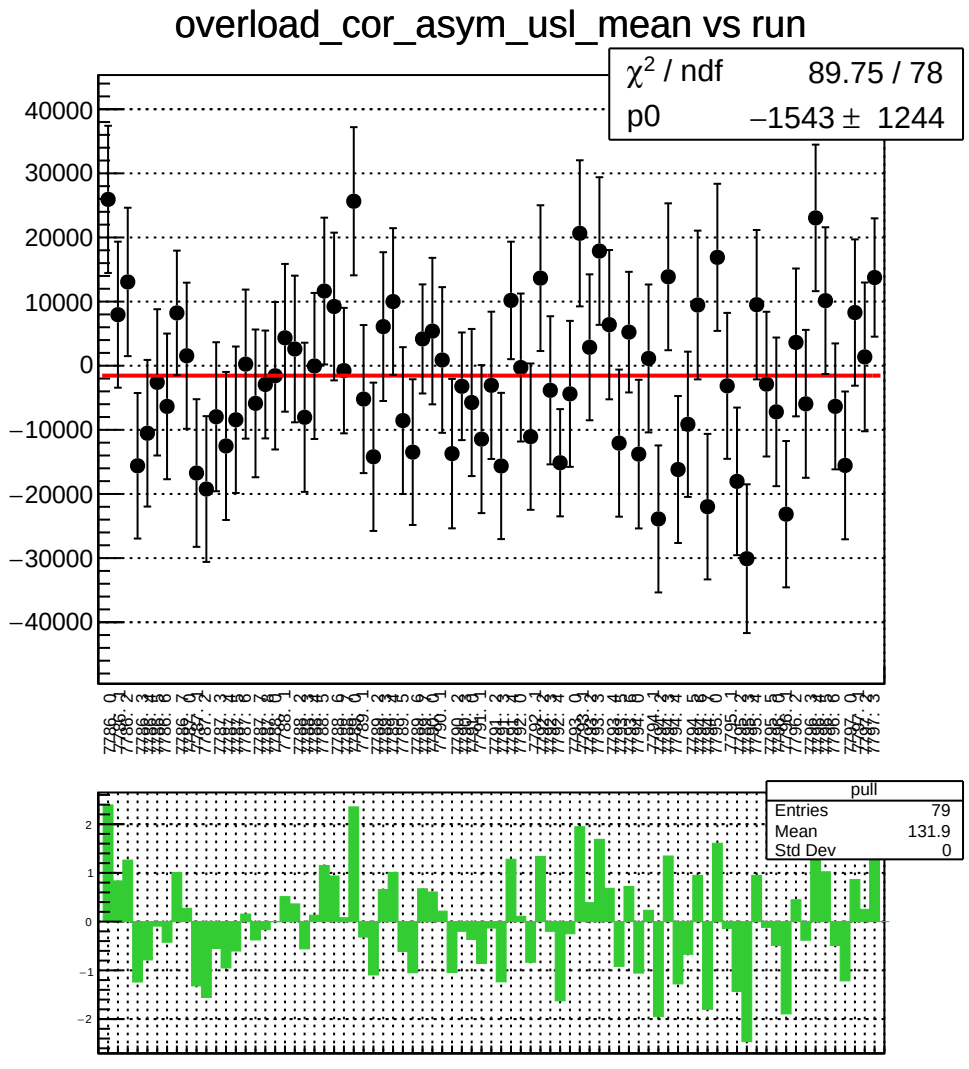

cor_asym_usl_mean vs run
χ² / ndf 89.81 / 78
p0 −1501 ± 1244
pull
Entries 79
Mean 121.4
Std Dev 0

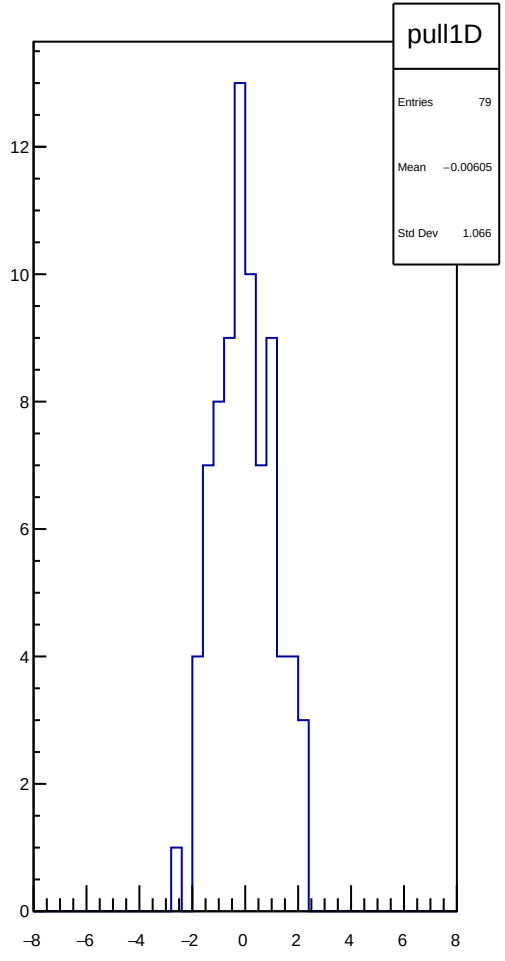

pull1D
Entries 79
Mean −0.005785
Std Dev 1.066

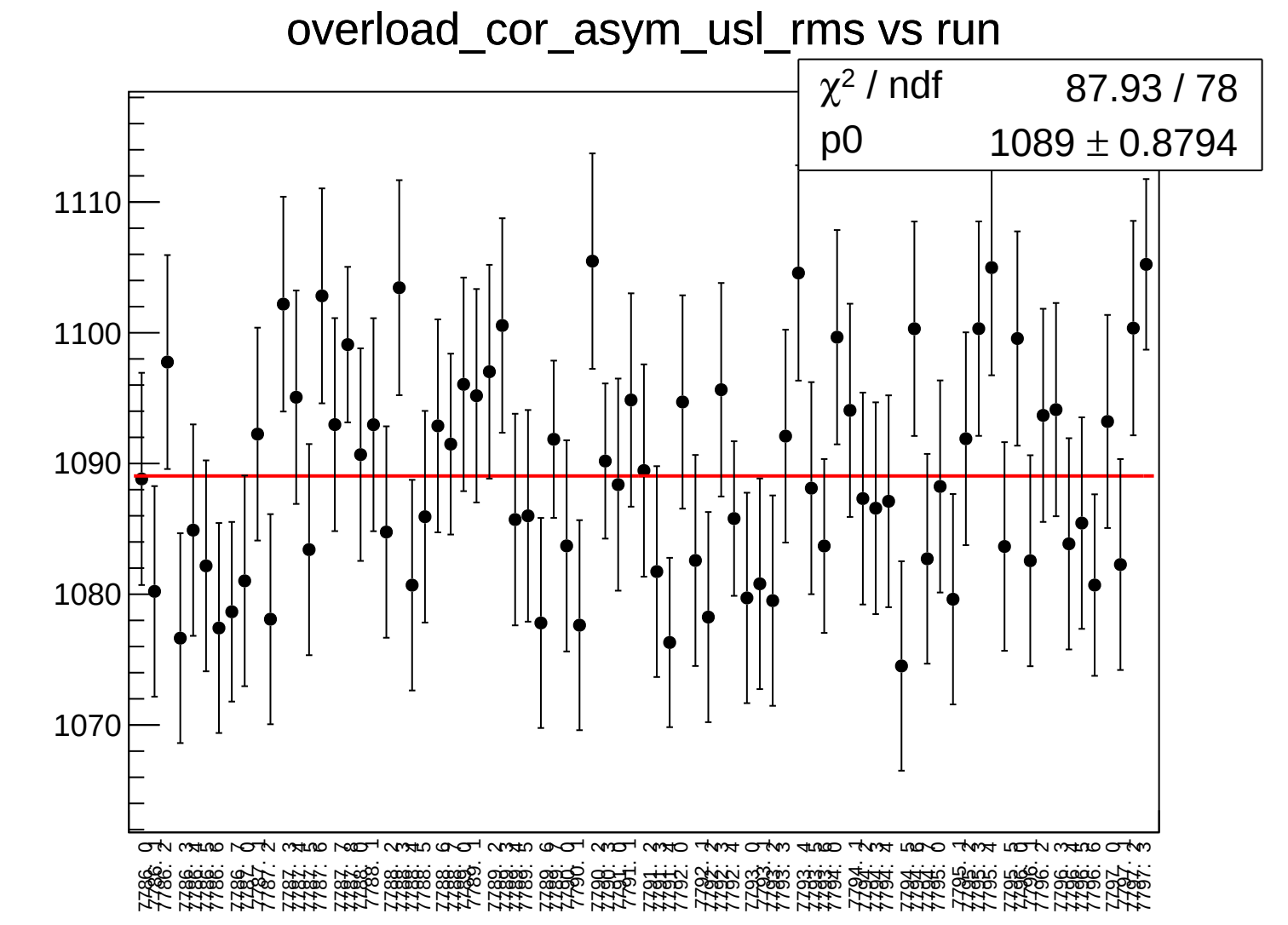

cor_asym_usl_rms vs run
χ² / ndf 87.59 / 78
p0 1090 ± 0.8799
1110
1100
1090
1080
1070

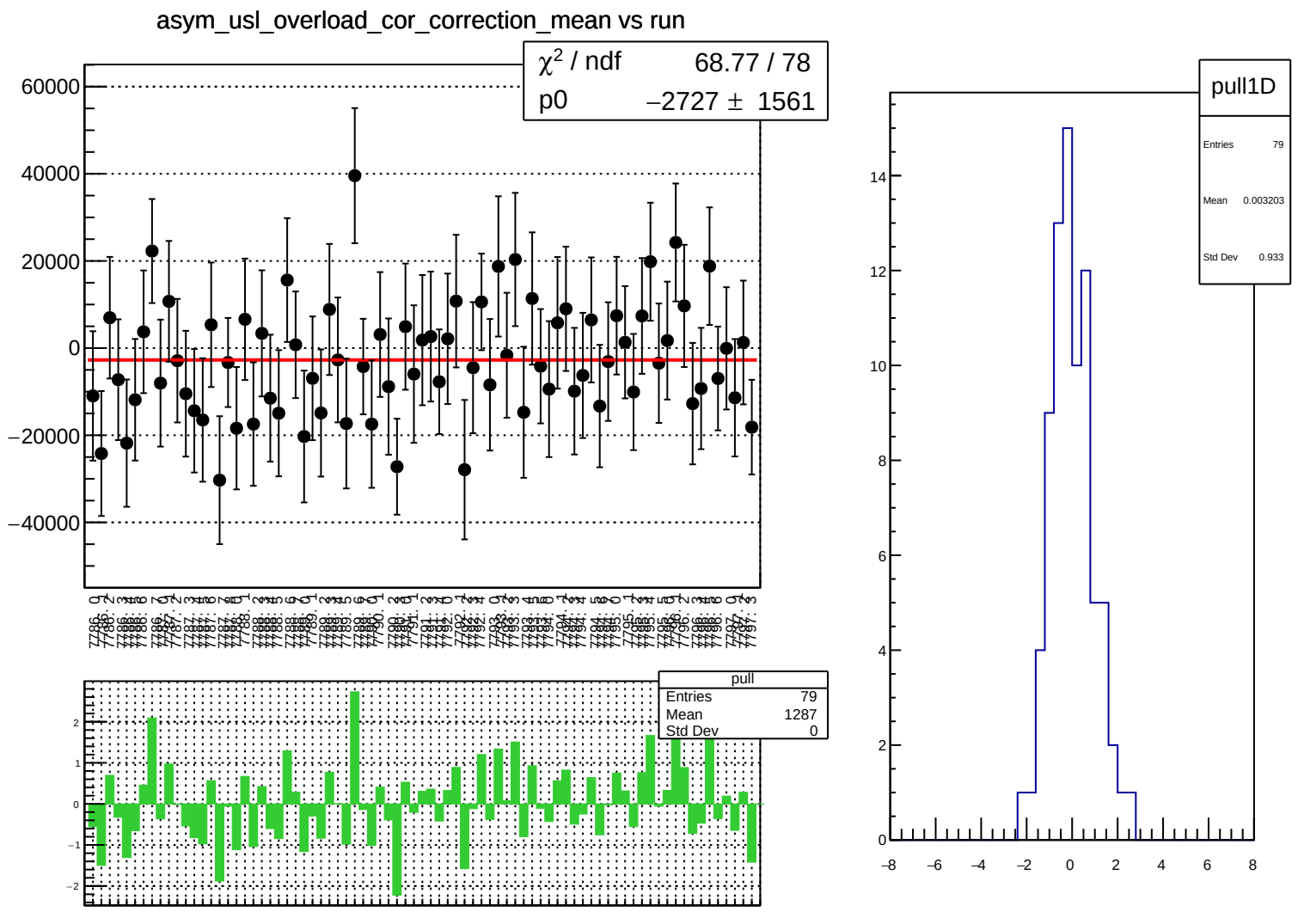

asym_usl_cor_correction_mean vs run
χ² / ndf 69.02 / 78
p0 −2684 ± 1560
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 1233
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 79
Mean 0.00341
Std Dev 0.9347
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

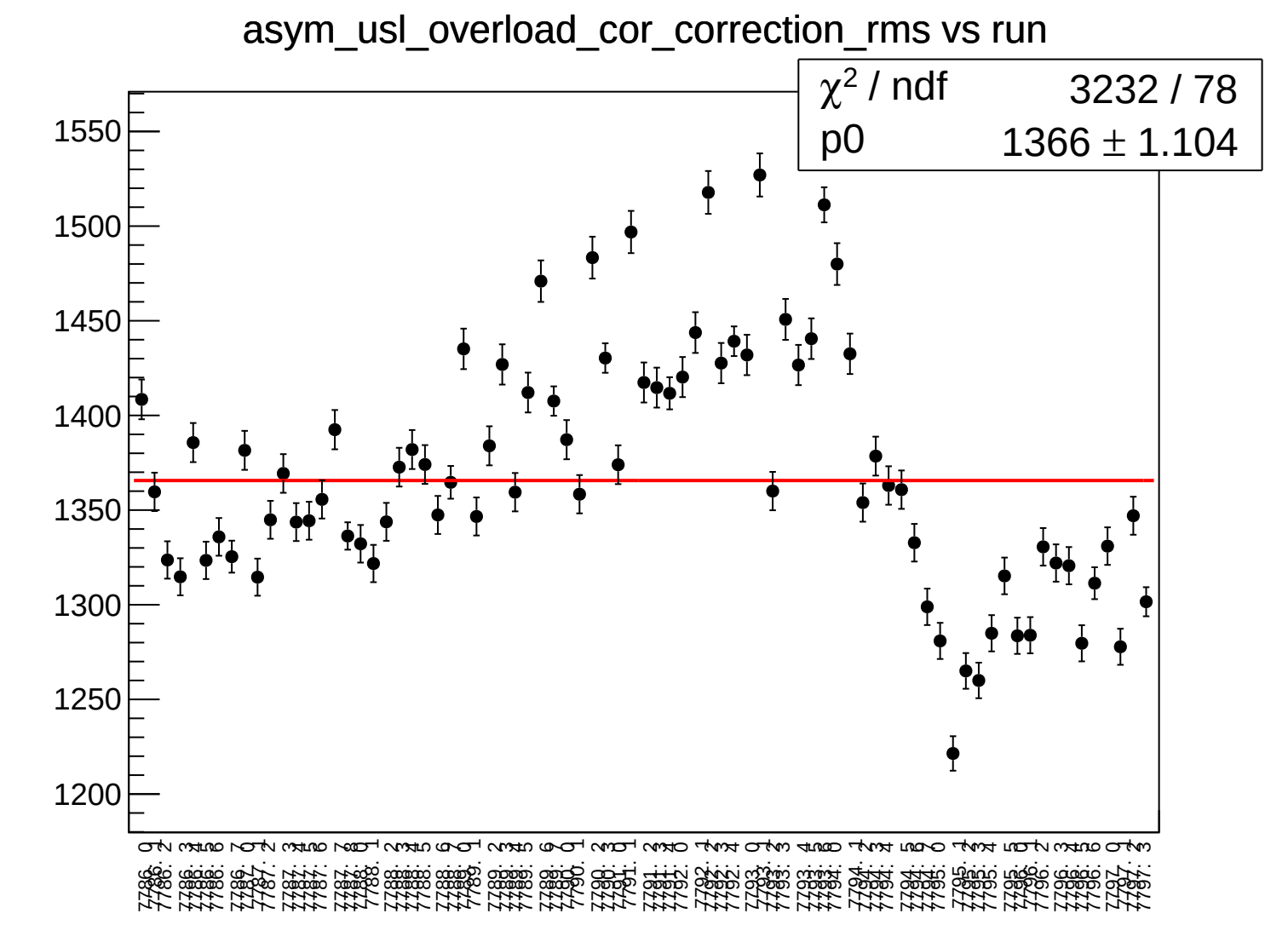

asym_usl_cor_correction_rms vs run
χ^2 / ndf 3236 / 78
p0 1365 ± 1.103
1550
1500
1450
1400
1350
1300
1250
1200

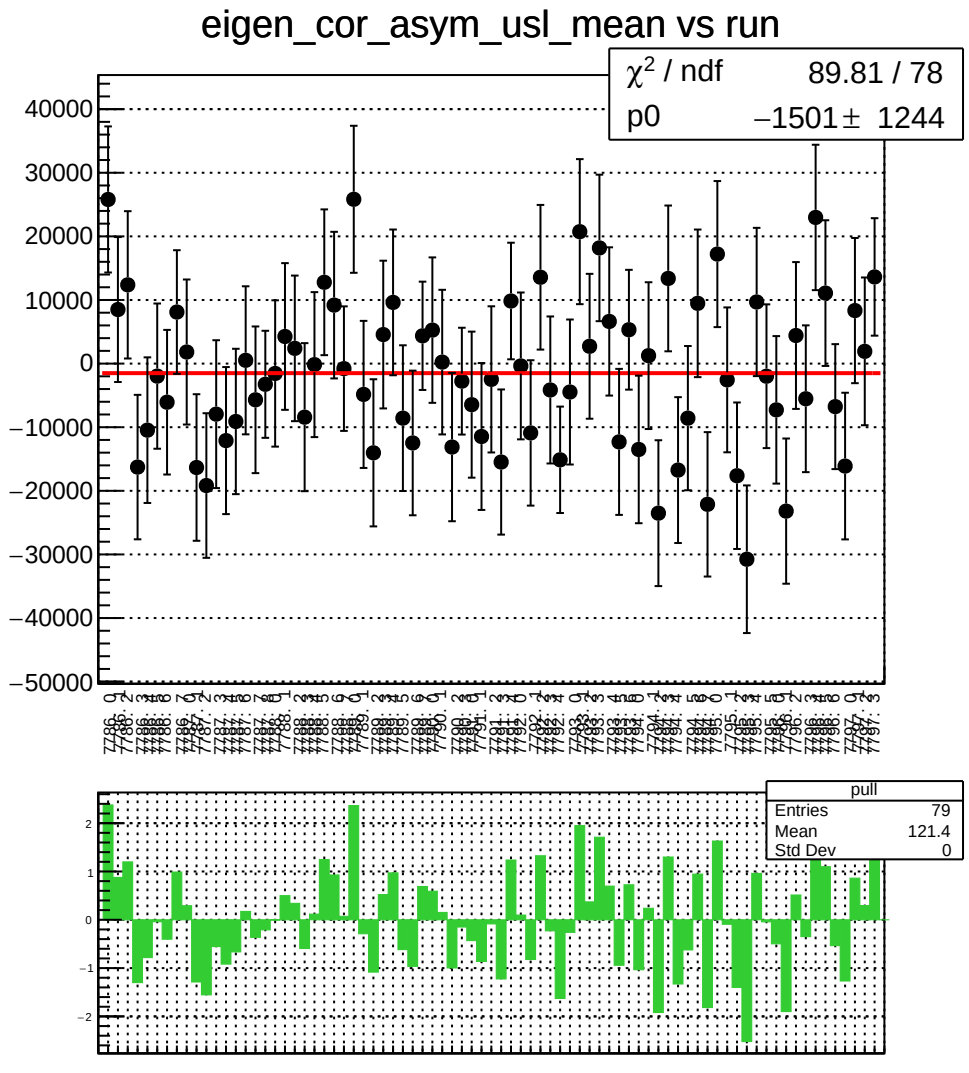

overload_cor_asym_usl_mean vs run
χ² / ndf 89.75 / 78
p0 −1543 ± 1244
pull
Entries 79
Mean 131.9
Std Dev 0

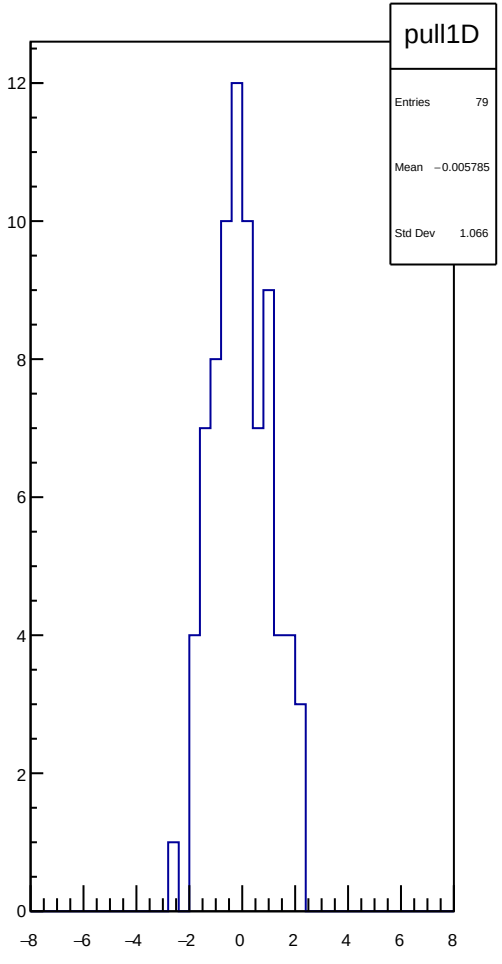

pull1D
Entries 79
Mean −0.00605
Std Dev 1.066

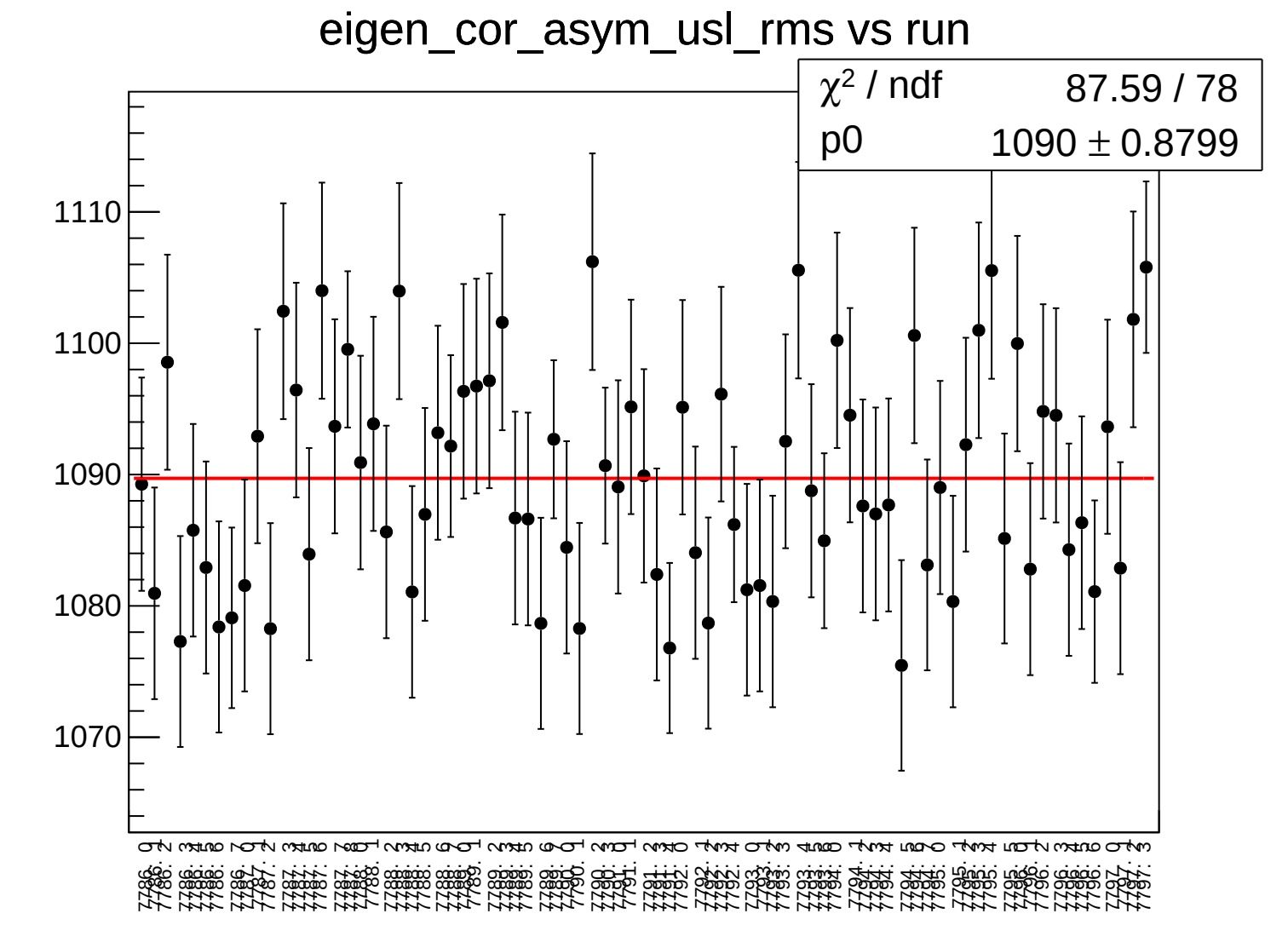

overload_cor_asym_usl_rms vs run
χ^2 / ndf 87.93 / 78
p0 1089 ± 0.8794
1110
1100
1090
1080
1070

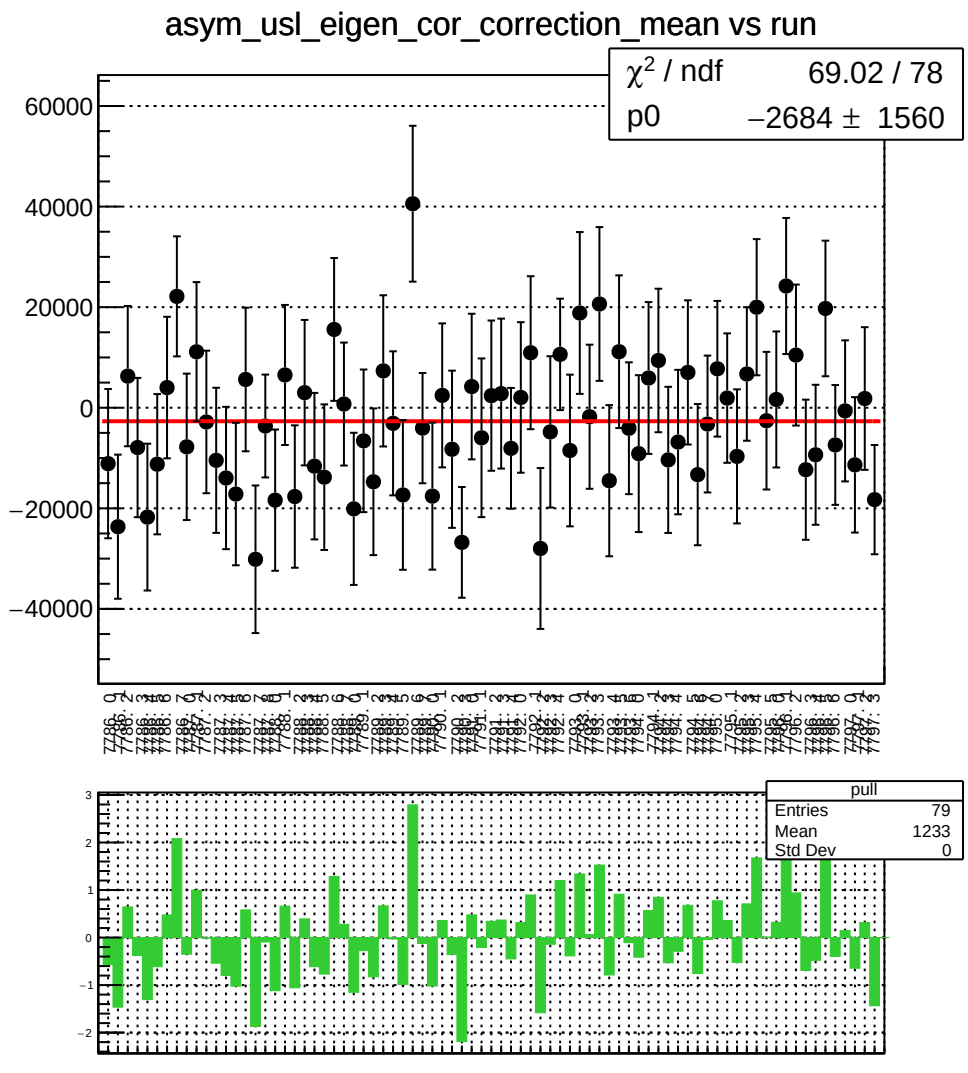

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 68.77 / 78
p0 −2727 ± 1561
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 1287
Std Dev 0
pull1D
Entries 79
Mean 0.003203
Std Dev 0.933

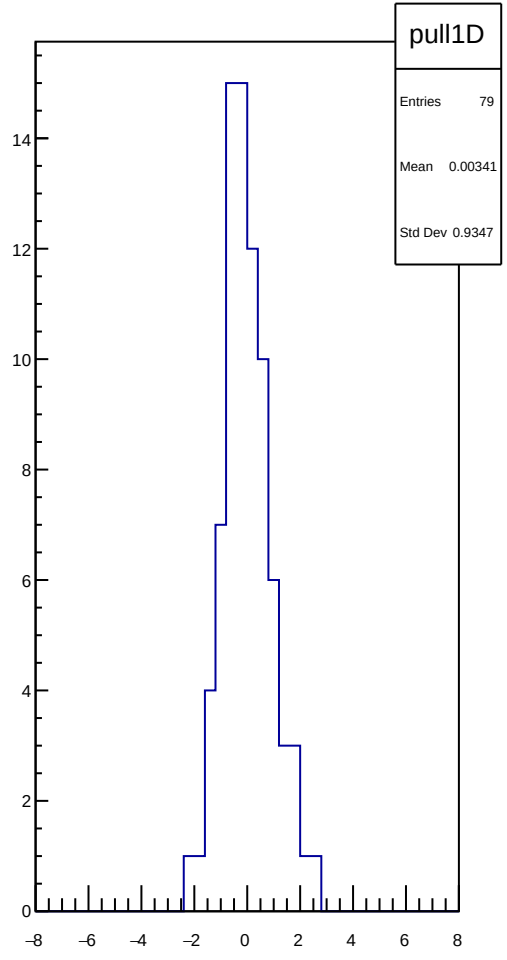

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 3232 / 78
p0 1366 ± 1.104
1550
1500
1450
1400
1350
1300
1250
1200

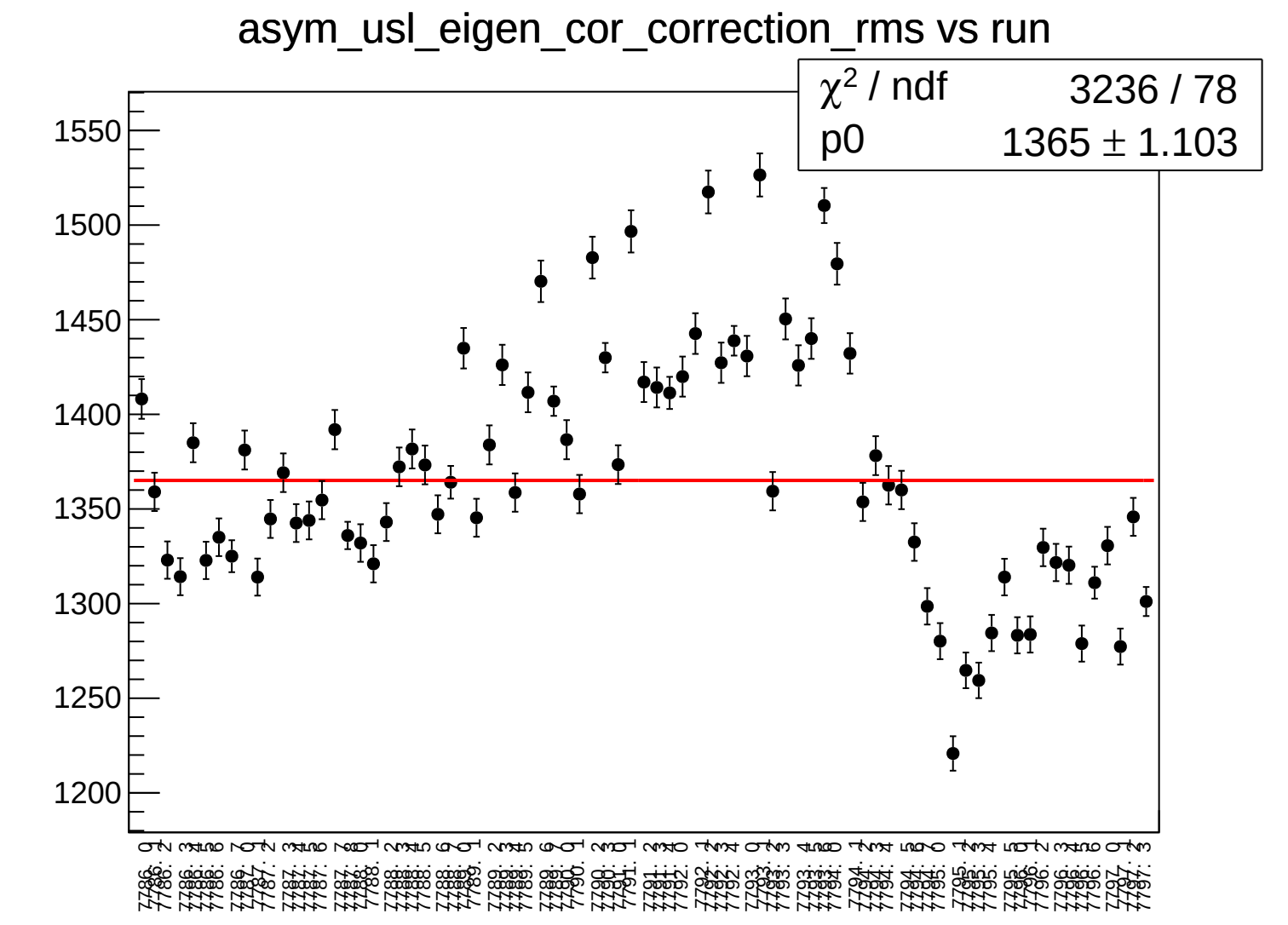

eigen_cor_asym_usl_mean vs run
χ² / ndf 89.81 / 78
p0 −1501 ± 1244
pull
Entries 79
Mean 121.4
Std Dev 0

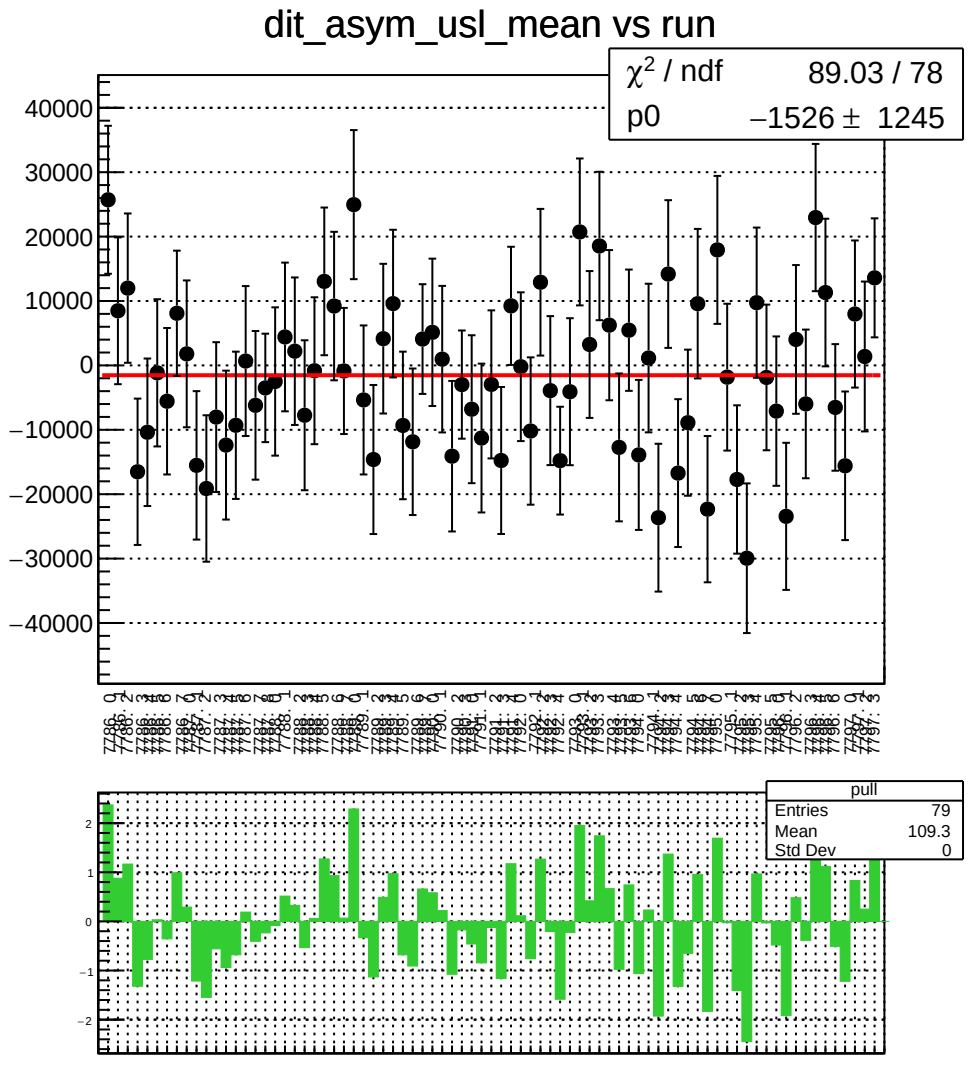

pull1D
Entries 79
Mean −0.005785
Std Dev 1.066

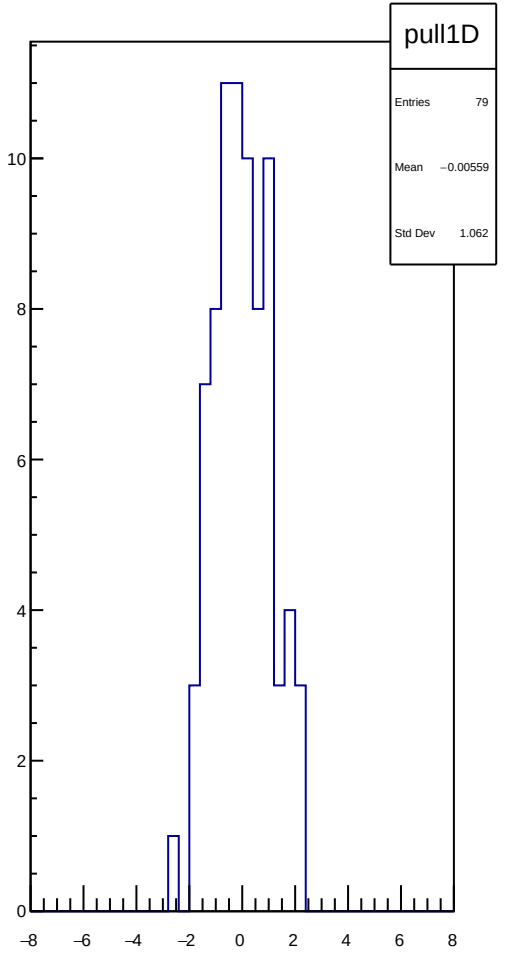

eigen_cor_asym_usl_rms vs run
χ^2 / ndf 87.59 / 78
p0 1090 ± 0.8799
1110
1100
1090
1080
1070

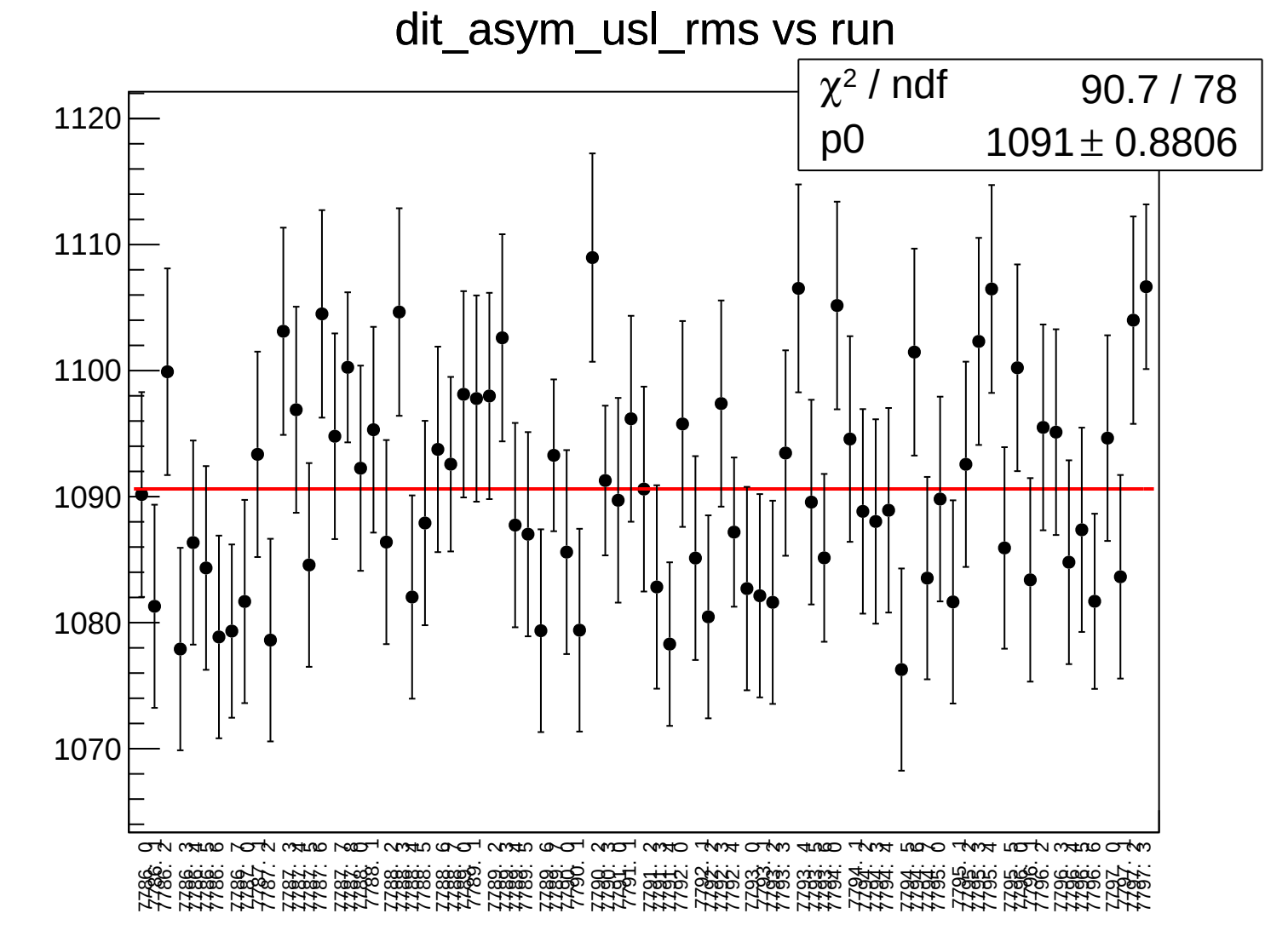

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 69.02 / 78
p0 −2684 ± 1560
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 1233
Std Dev 0
3
2
1
0
−1
−2

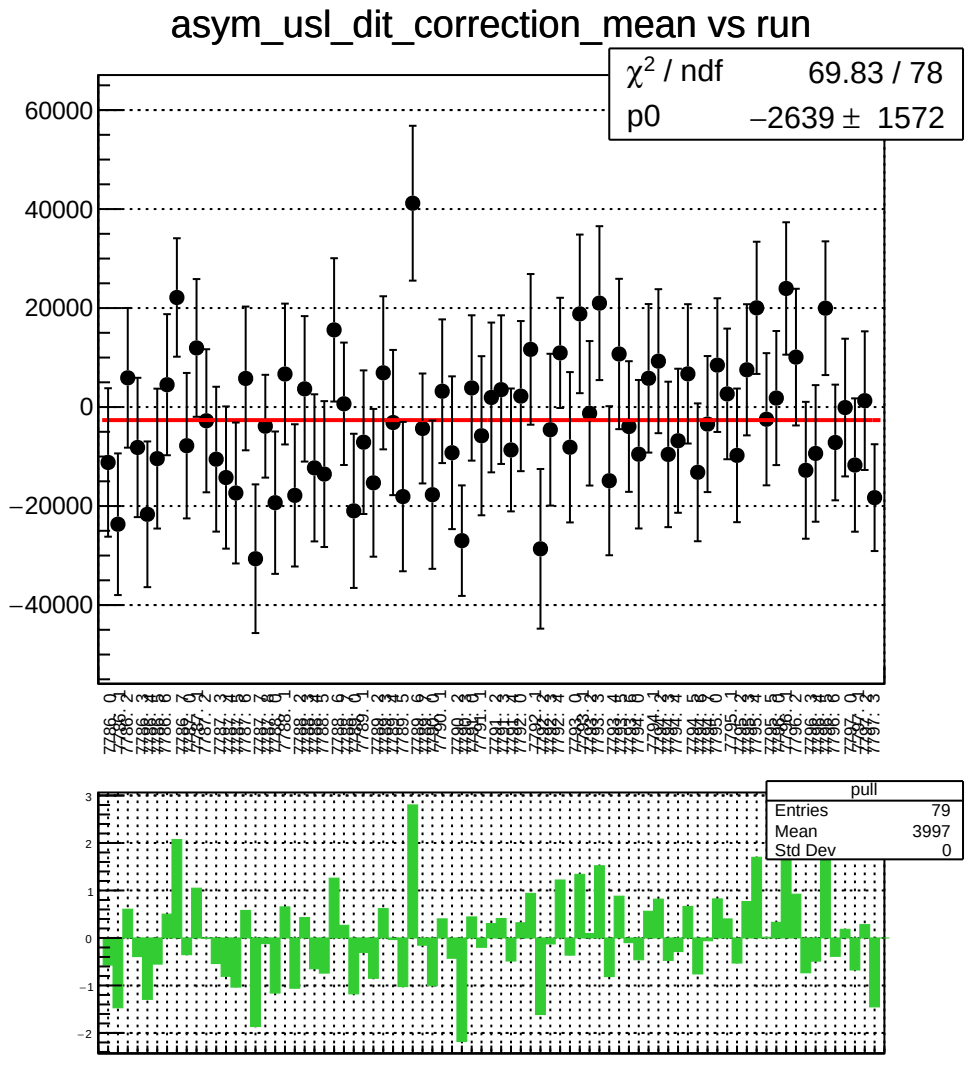

pull1D
Entries 79
Mean 0.00341
Std Dev 0.9347
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

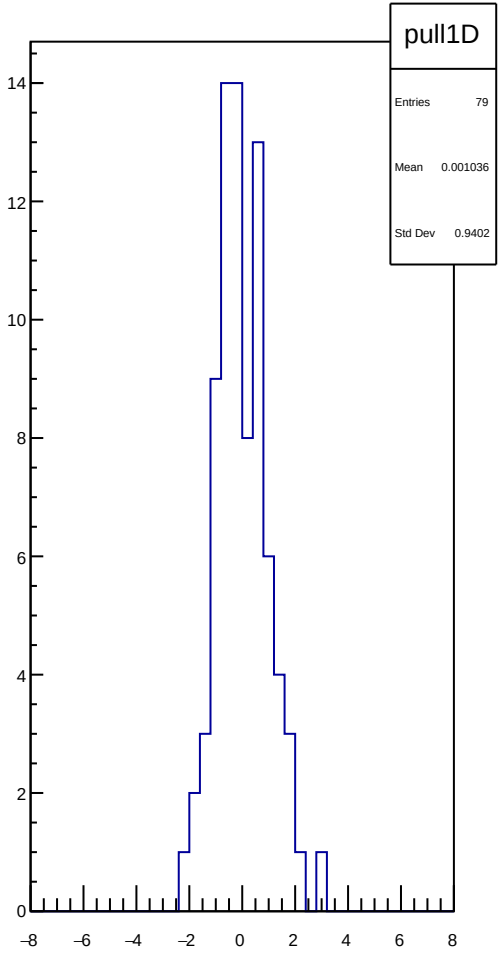

asym_usl_eigen_cor_correction_rms vs run
χ^2 / ndf 3236 / 78
p0 1365 ± 1.103
1550
1500
1450
1400
1350
1300
1250
1200

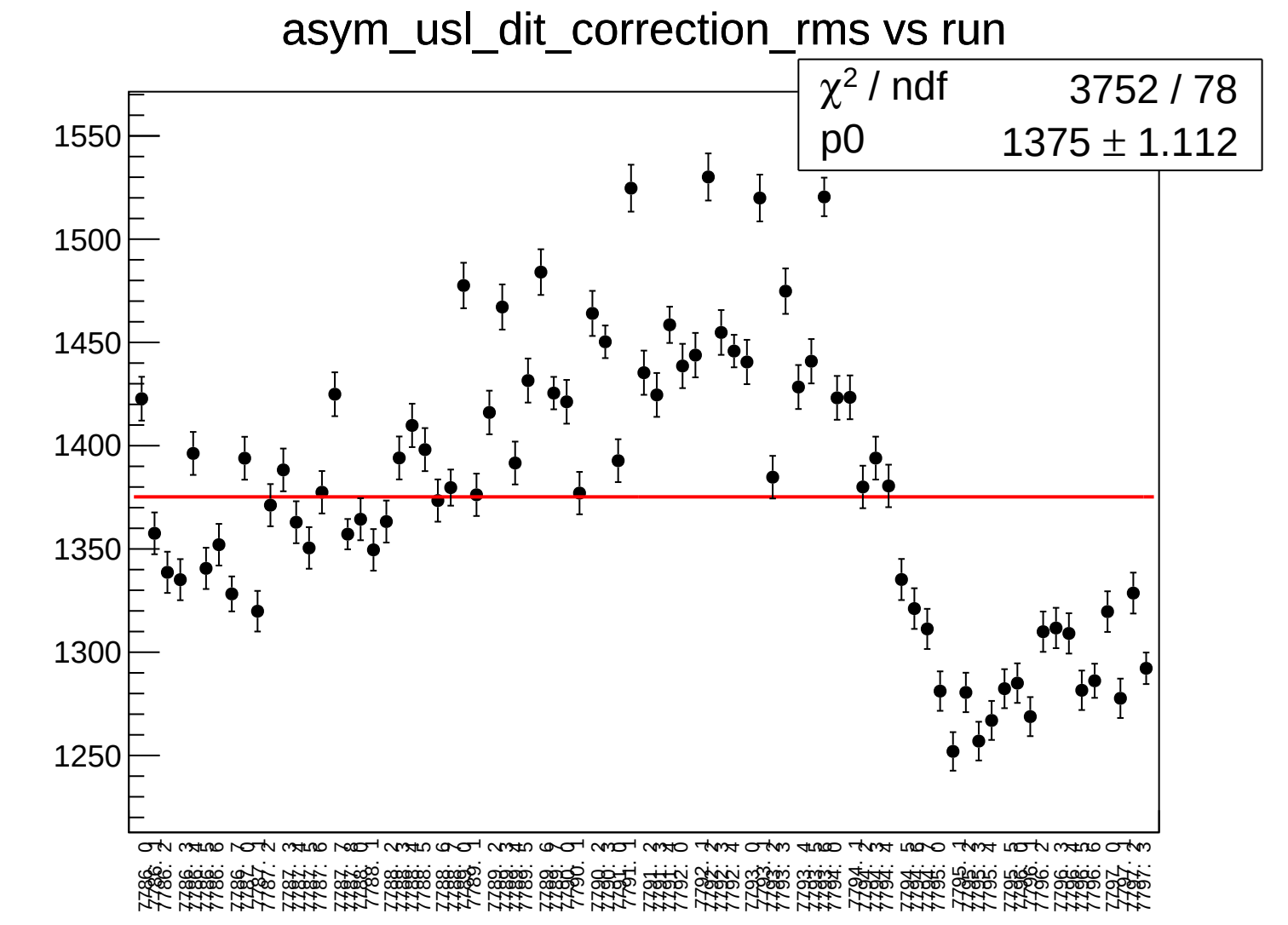

dit_asym_usl_mean vs run
χ² / ndf 89.03 / 78
p0 −1526 ± 1245
pull
Entries 79
Mean 109.3
Std Dev 0

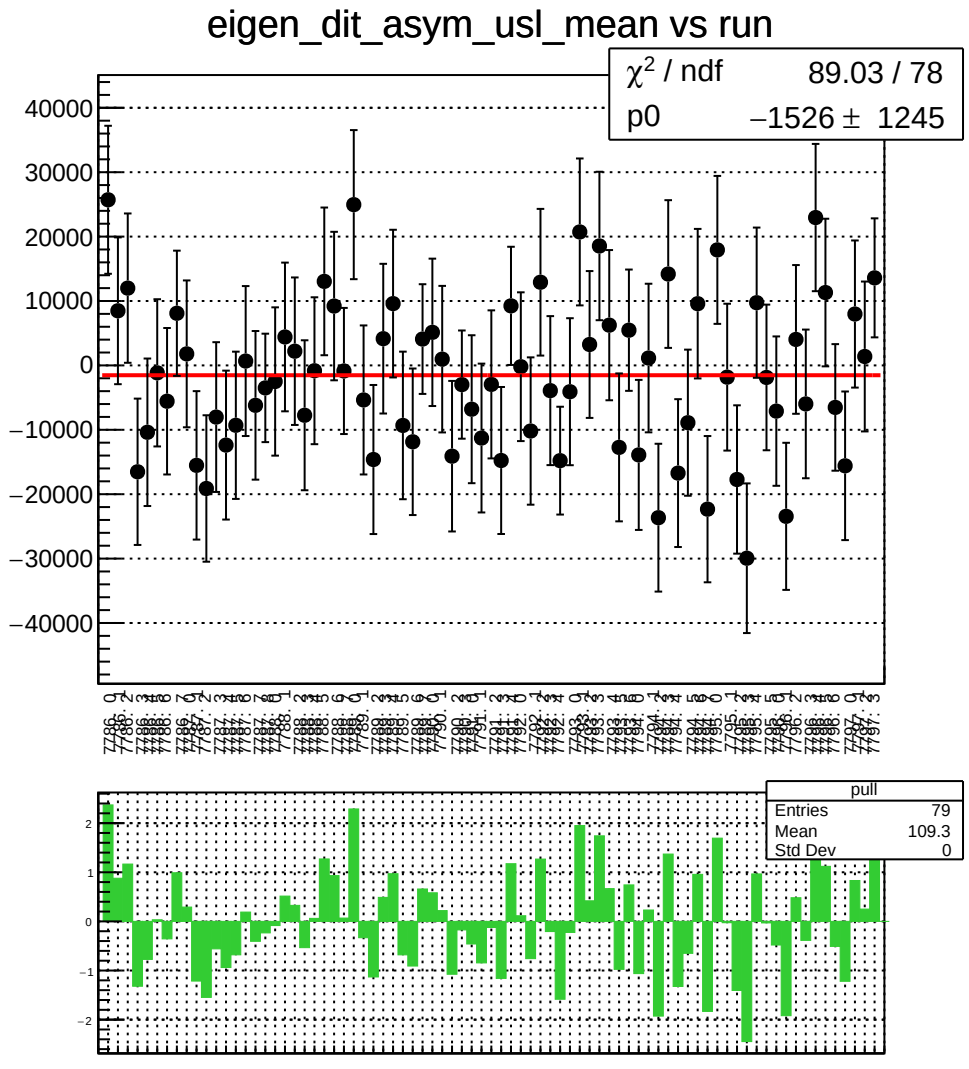

pull1D
Entries 79
Mean −0.00559
Std Dev 1.062

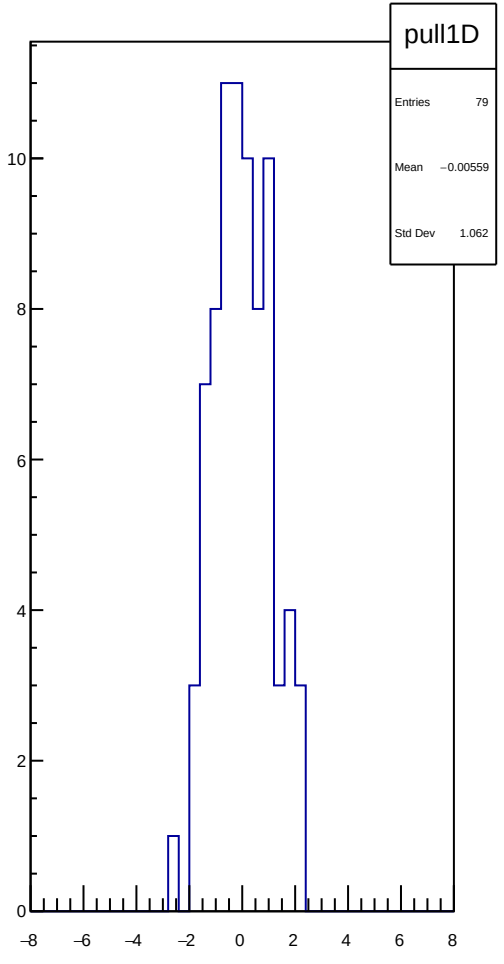

dit_asym_usl_rms vs run
χ² / ndf 90.7 / 78
p0 1091 ± 0.8806
1120
1110
1100
1090
1080
1070

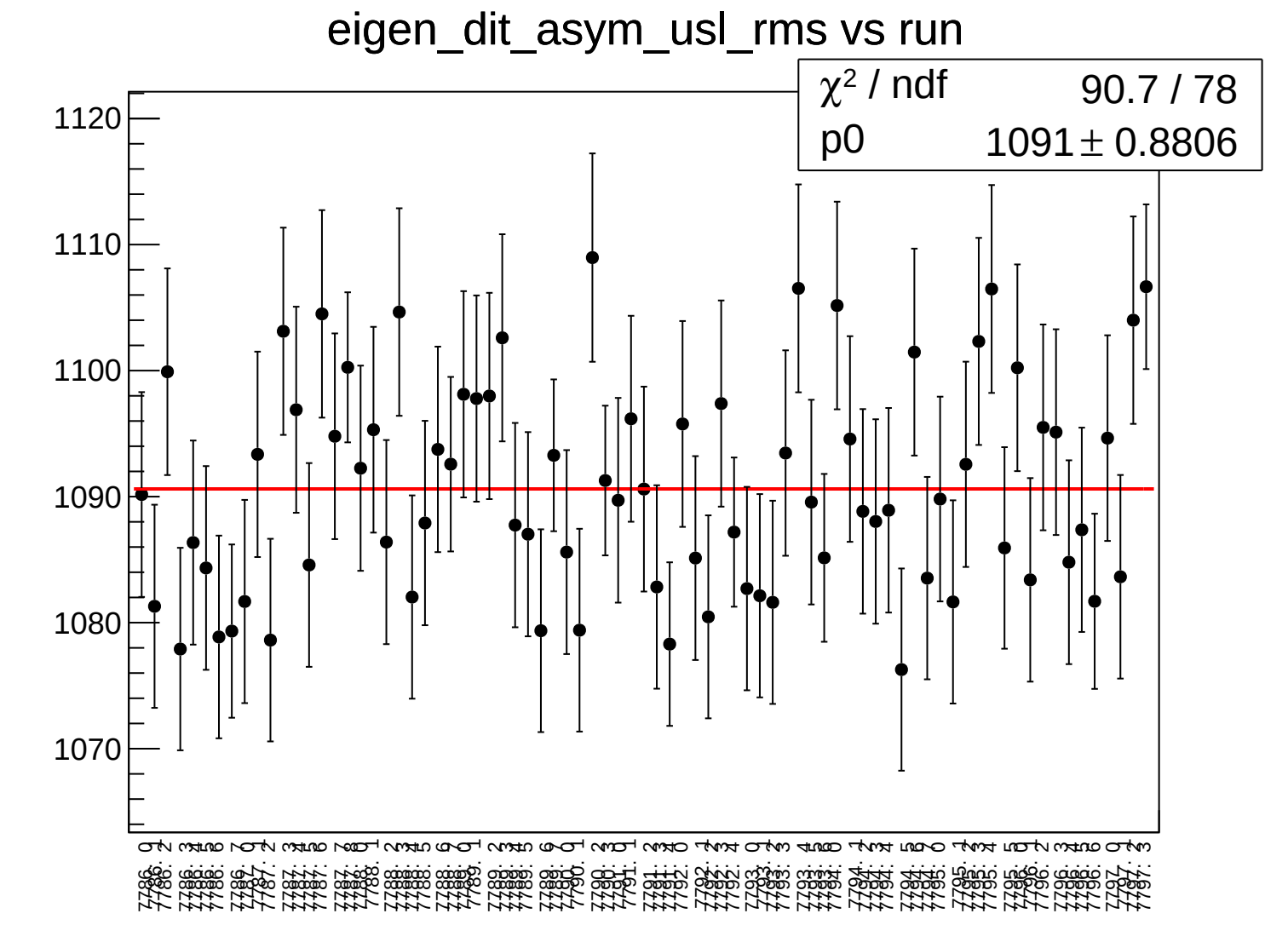

asym_usl_dit_correction_mean vs run
χ² / ndf 69.83 / 78
p0 −2639 ± 1572
pull
Entries 79
Mean 3997
Std Dev 0

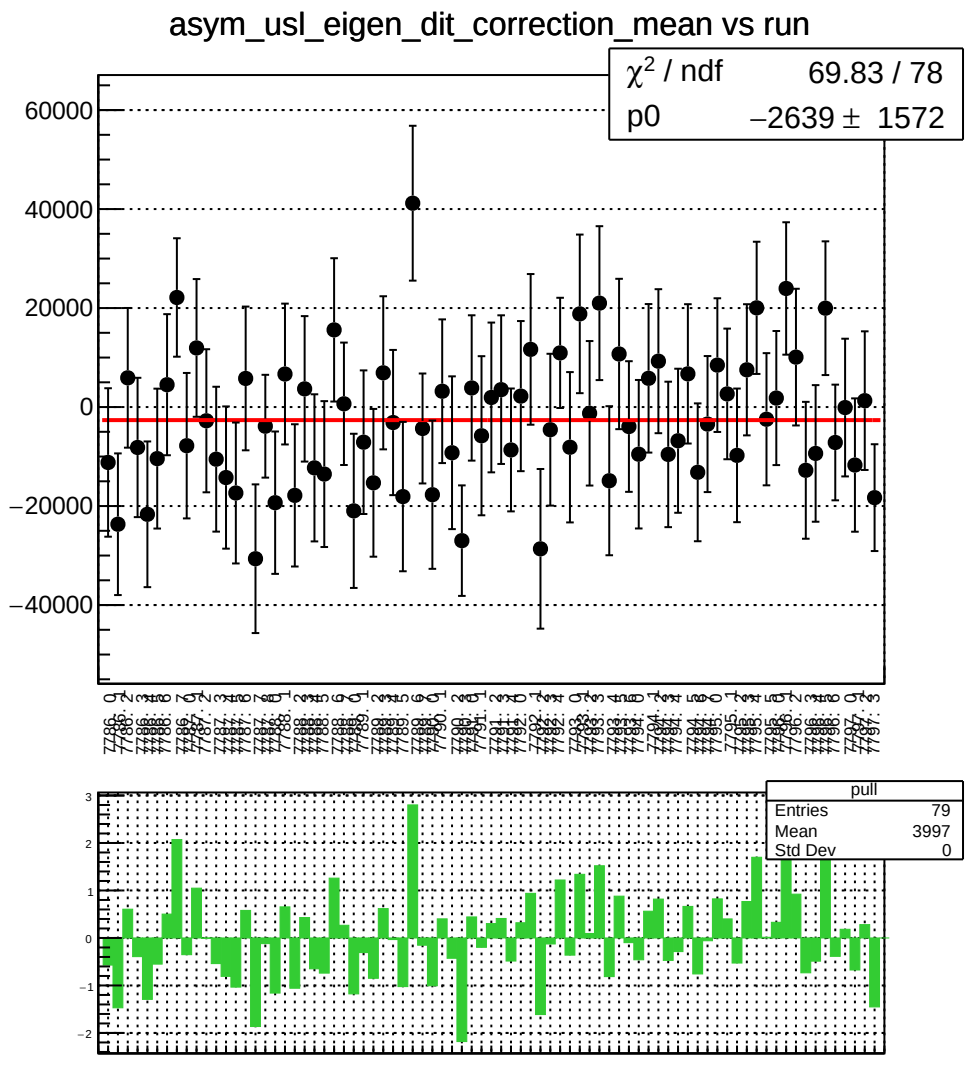

pull1D
Entries 79
Mean 0.001036
Std Dev 0.9402

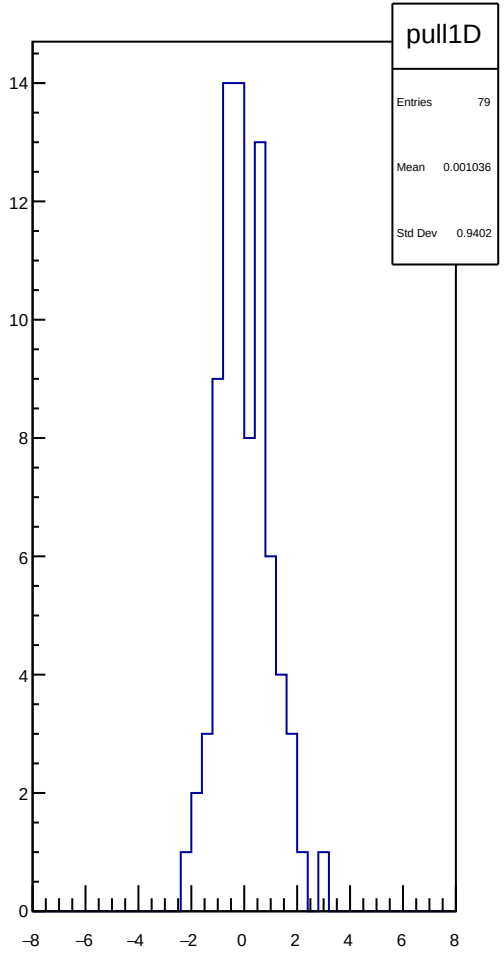

asym_usl_dit_correction_rms vs run
χ² / ndf 3752 / 78
p0 1375 ± 1.112
1550
1500
1450
1400
1350
1300
1250

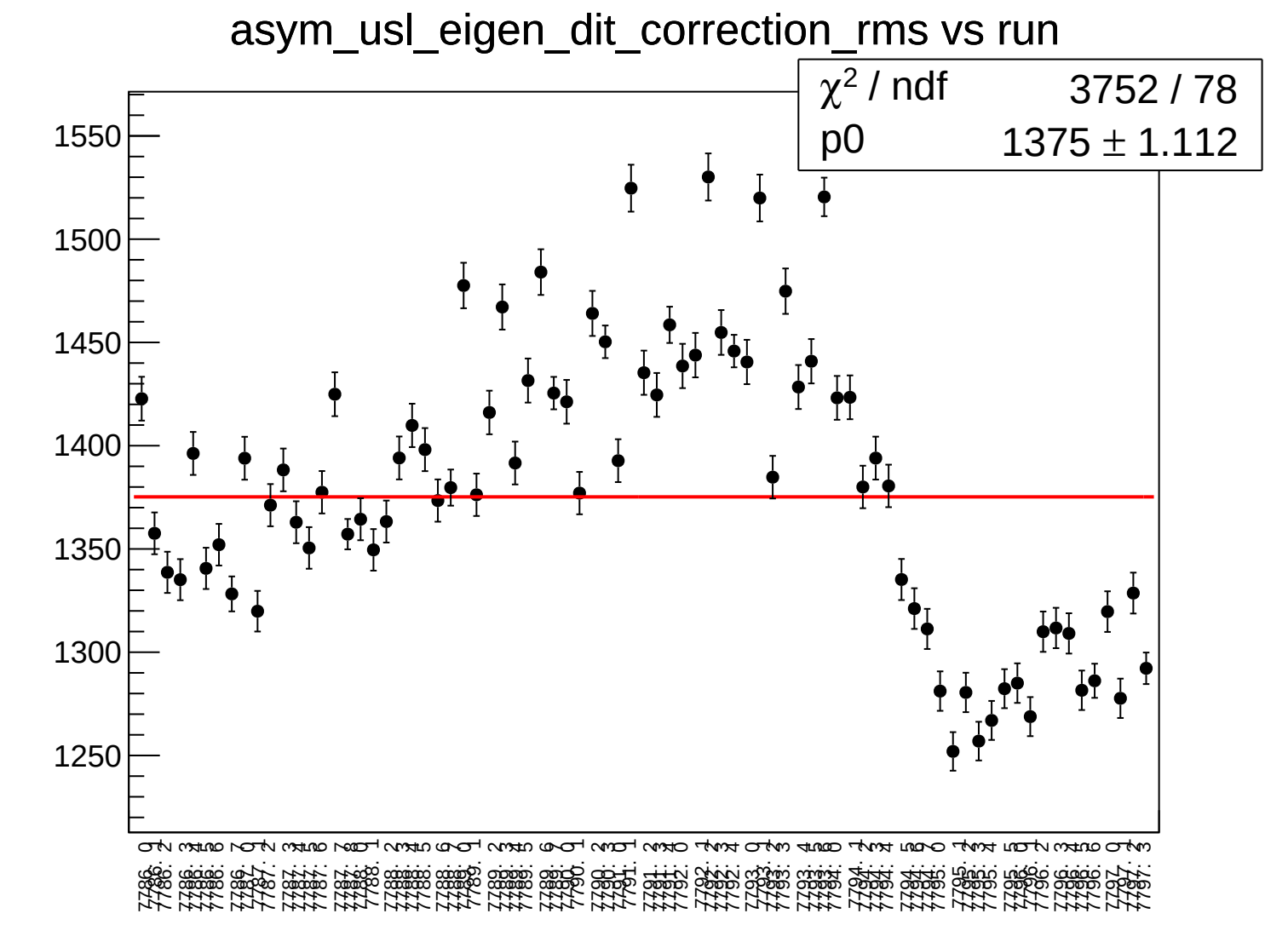

eigen_dit_asym_usl_mean vs run
χ² / ndf 89.03 / 78
p0 −1526 ± 1245
pull
Entries 79
Mean 109.3
Std Dev 0

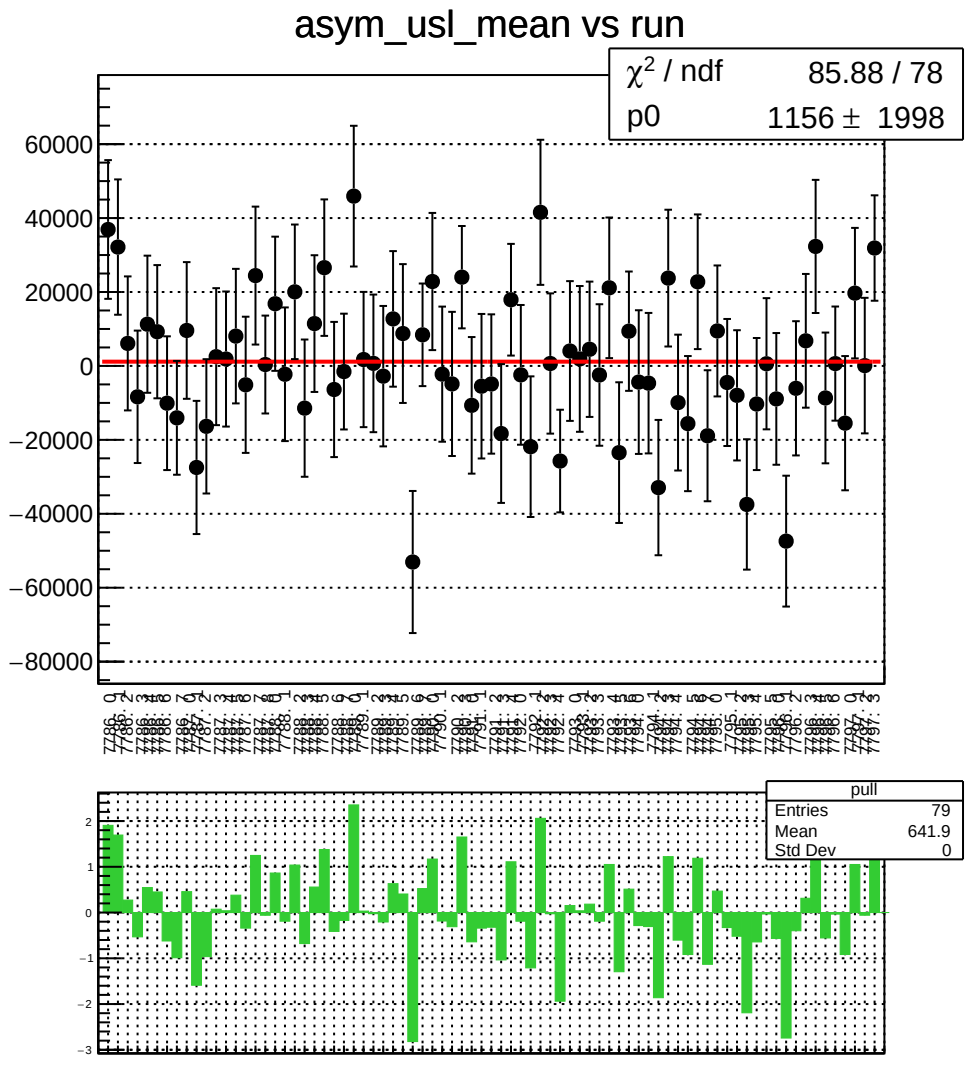

pull1D
Entries 79
Mean −0.00559
Std Dev 1.062

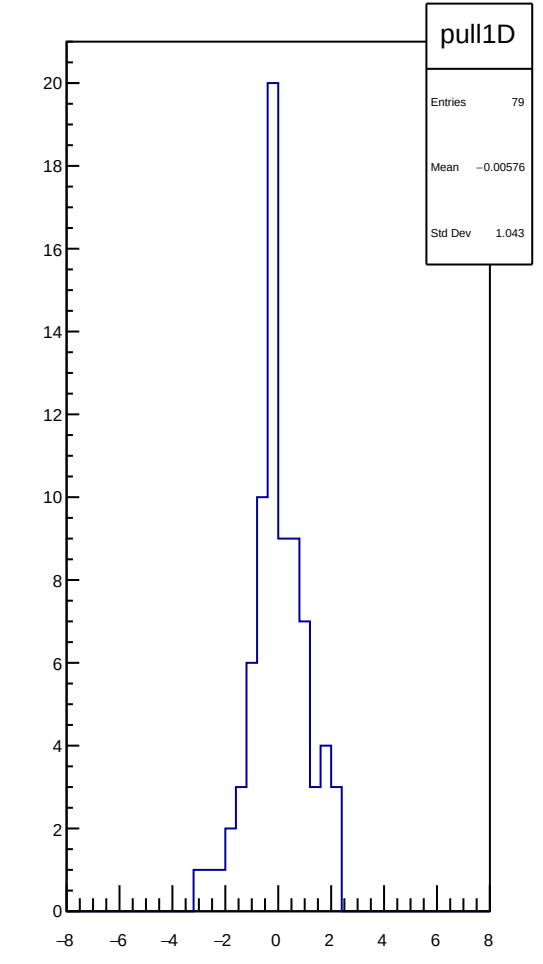

eigen_dit_asym_usl_rms vs run
χ² / ndf 90.7 / 78
p0 1091 ± 0.8806
1120
1110
1100
1090
1080
1070

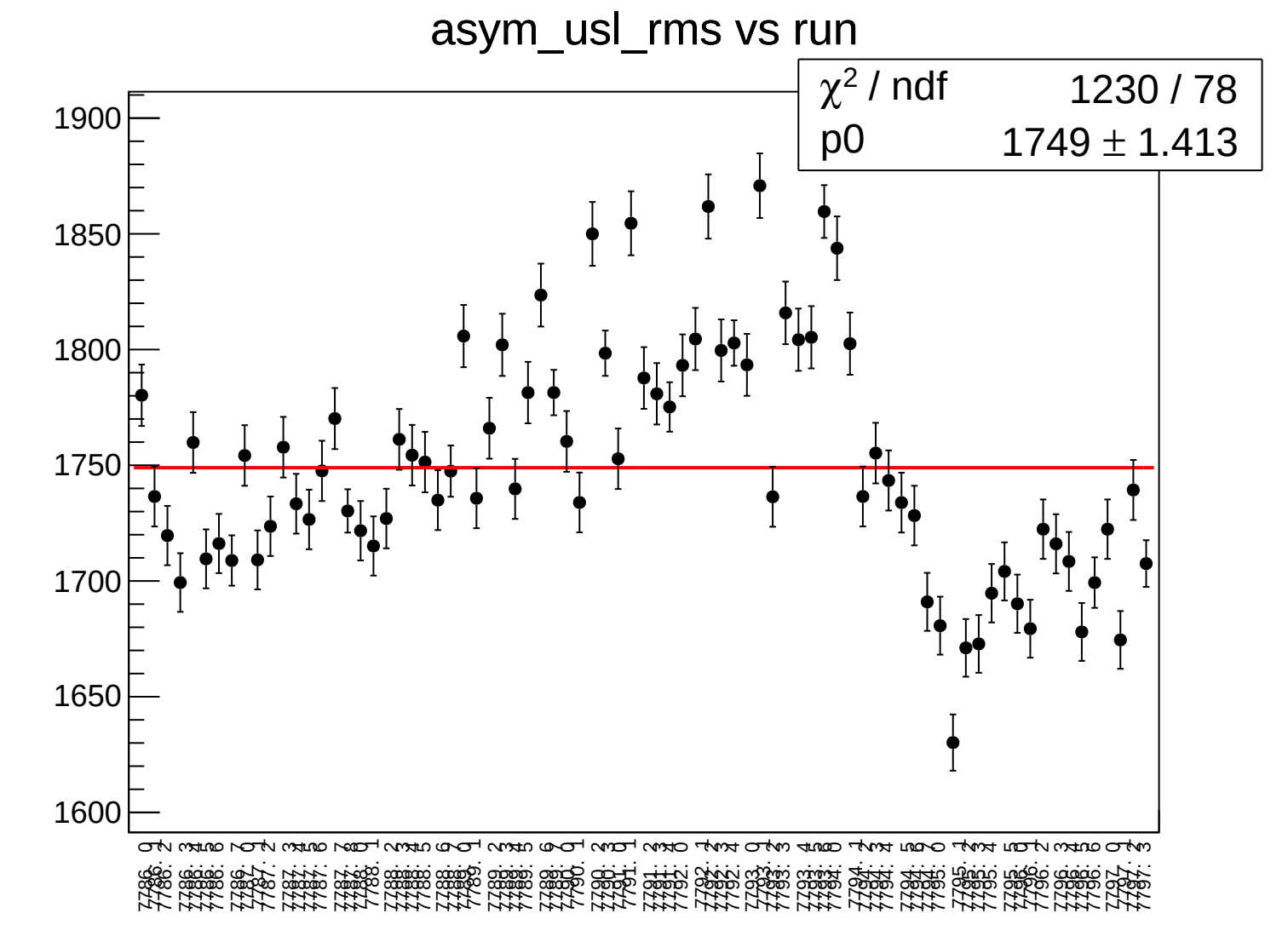

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 69.83 / 78
p0 −2639 ± 1572
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 3997
Std Dev 0
3
2
1
0
−1
−2

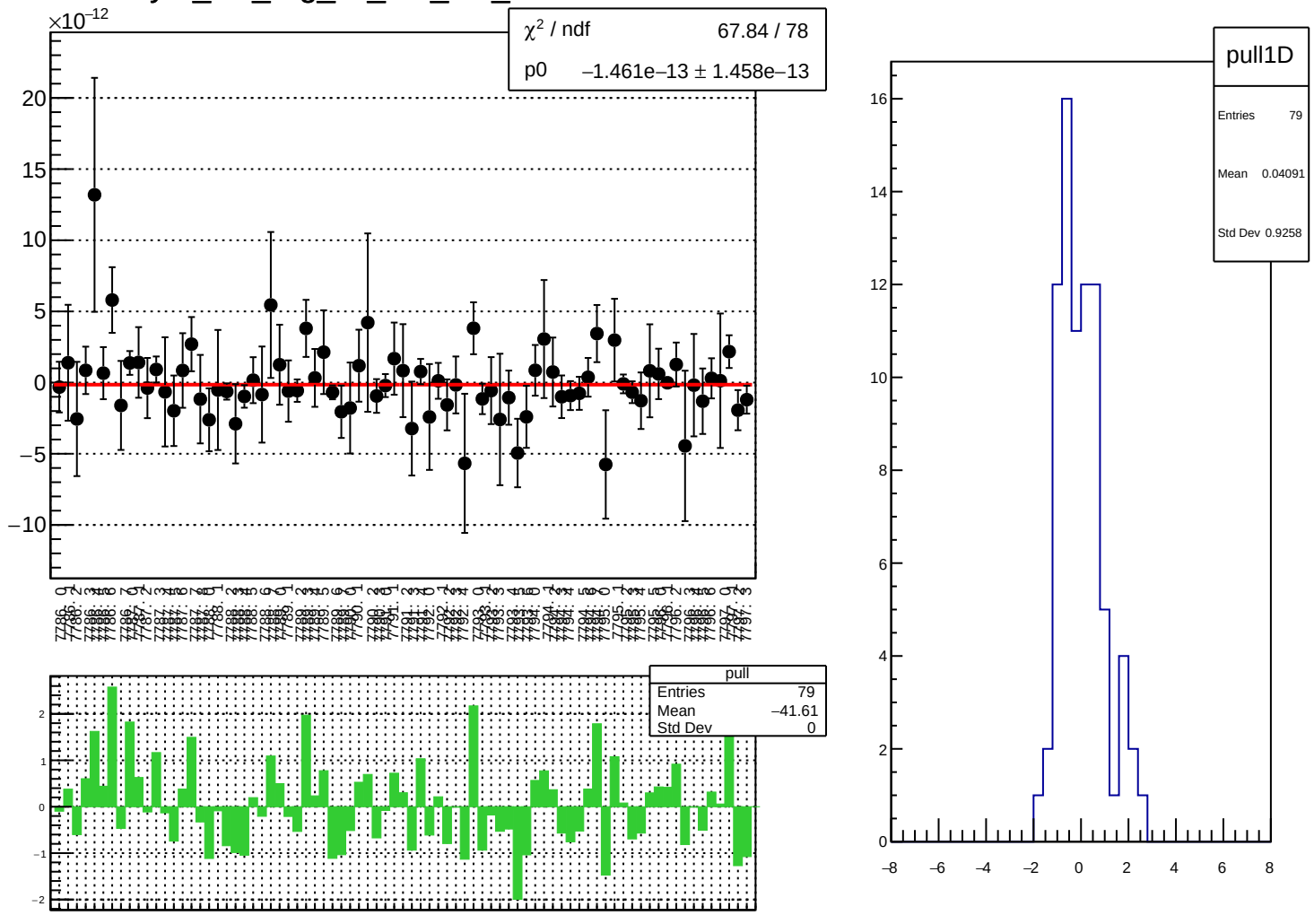

pull1D
Entries 79
Mean 0.001036
Std Dev 0.9402
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

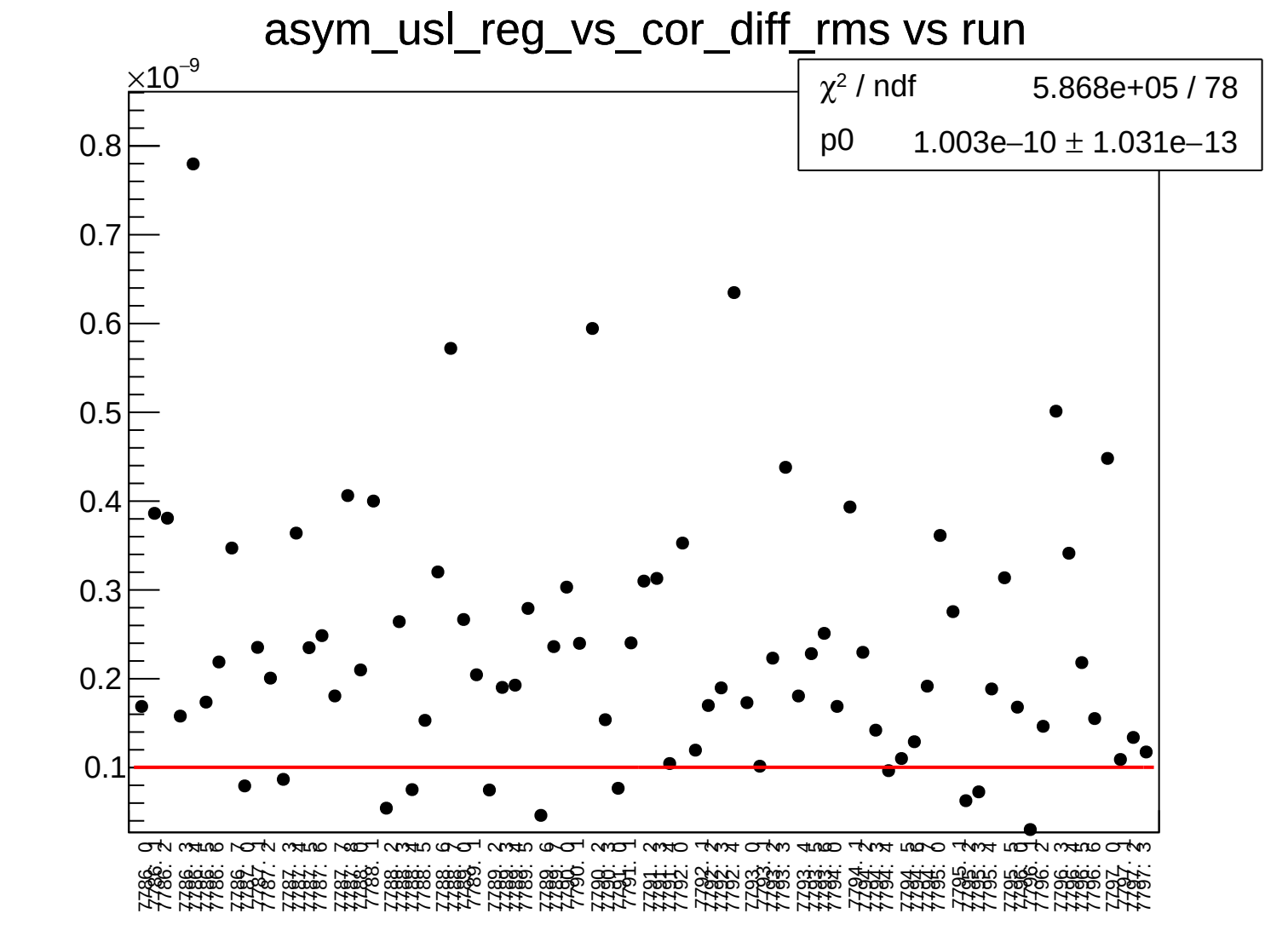

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 3752 / 78
p0 1375 ± 1.112
1550
1500
1450
1400
1350
1300
1250

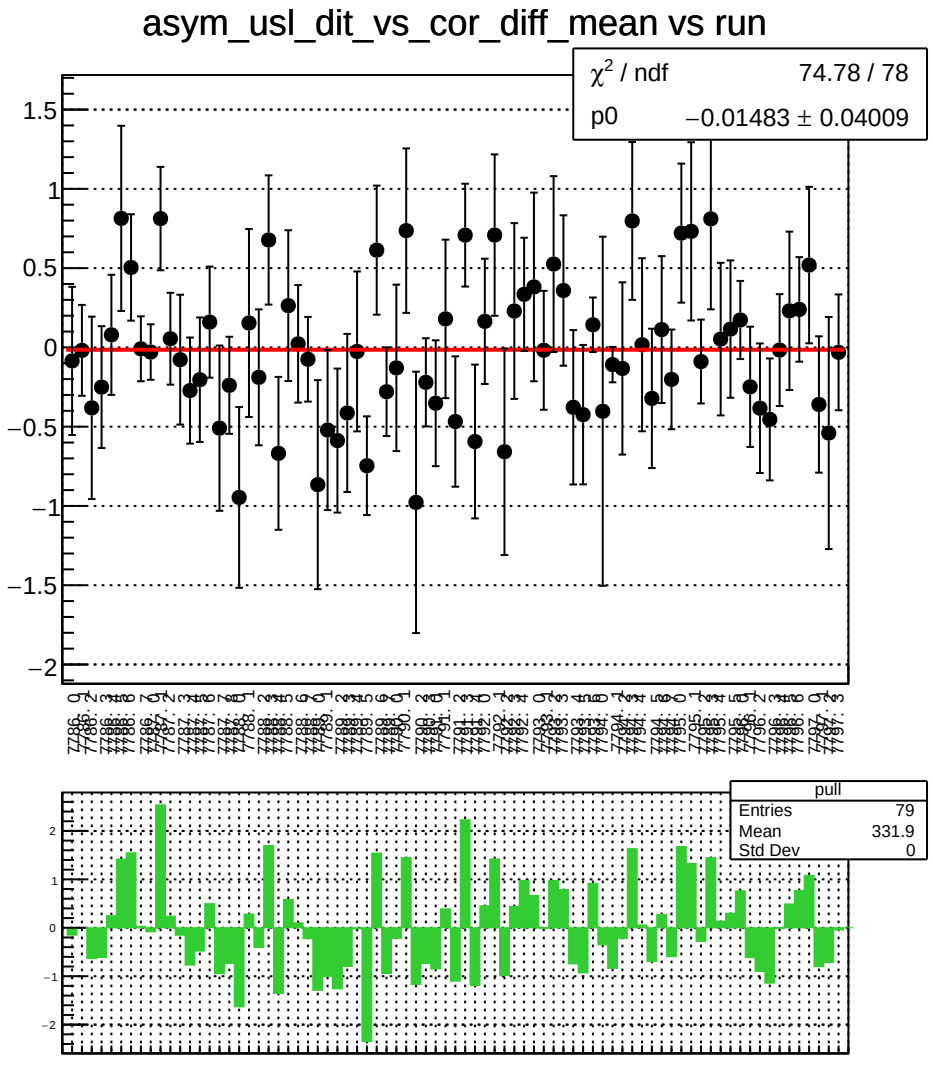

asym_usl_mean vs run
χ² / ndf 85.88 / 78
p0 1156 ± 1998
pull
Entries 79
Mean 641.9
Std Dev 0

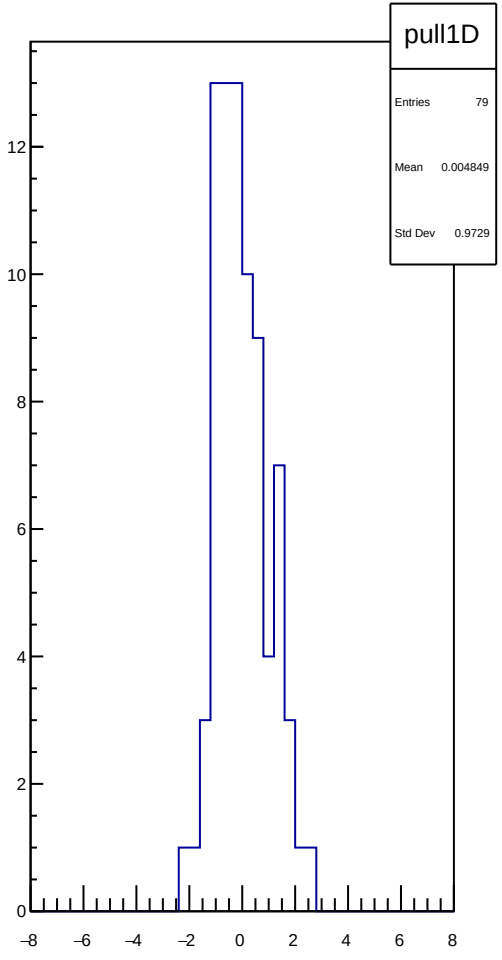

pull1D
Entries 79
Mean −0.00576
Std Dev 1.043

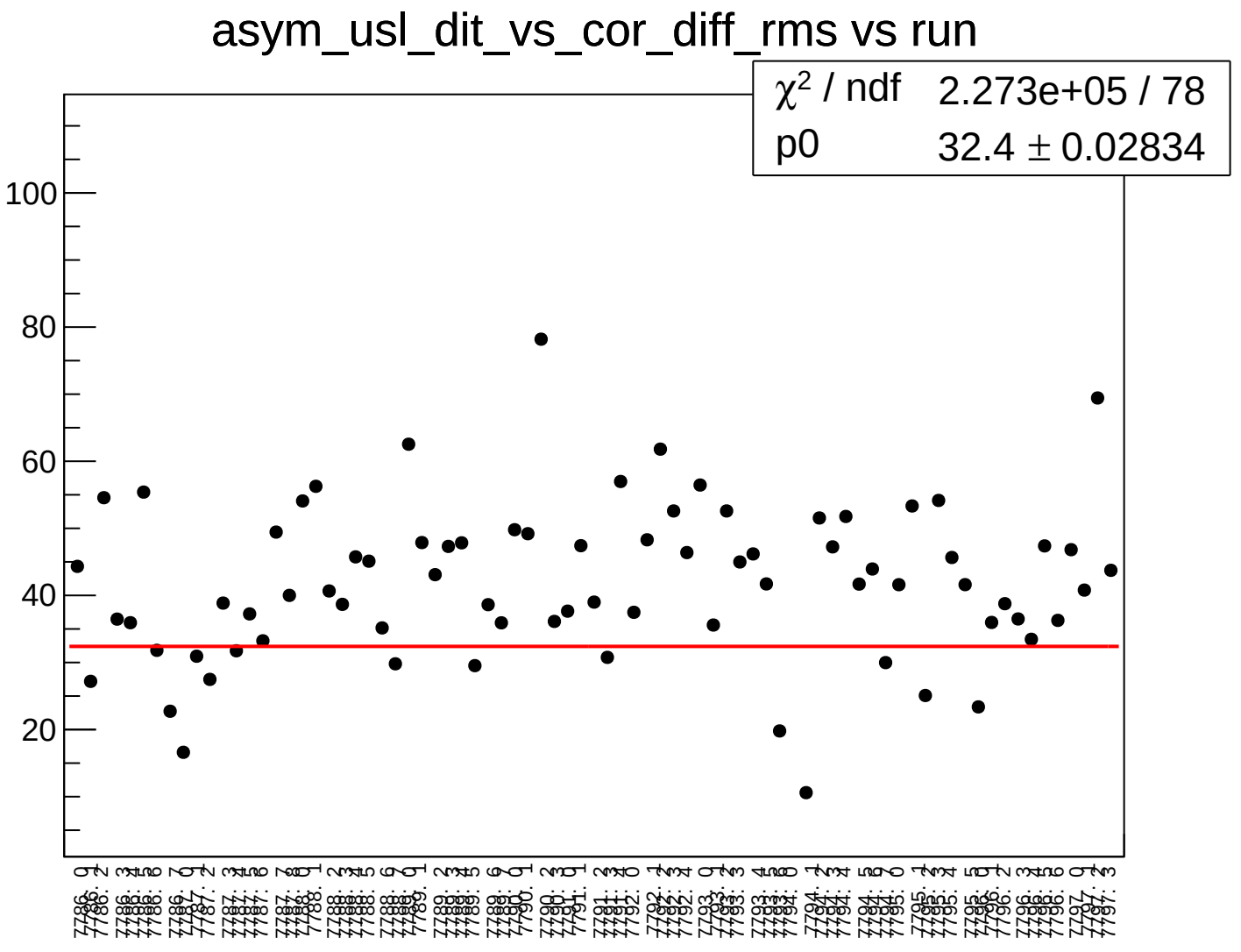

asym_usl_rms vs run
χ² / ndf 1230 / 78
p0 1749 ± 1.413
1900
1850
1800
1750
1700
1650
1600

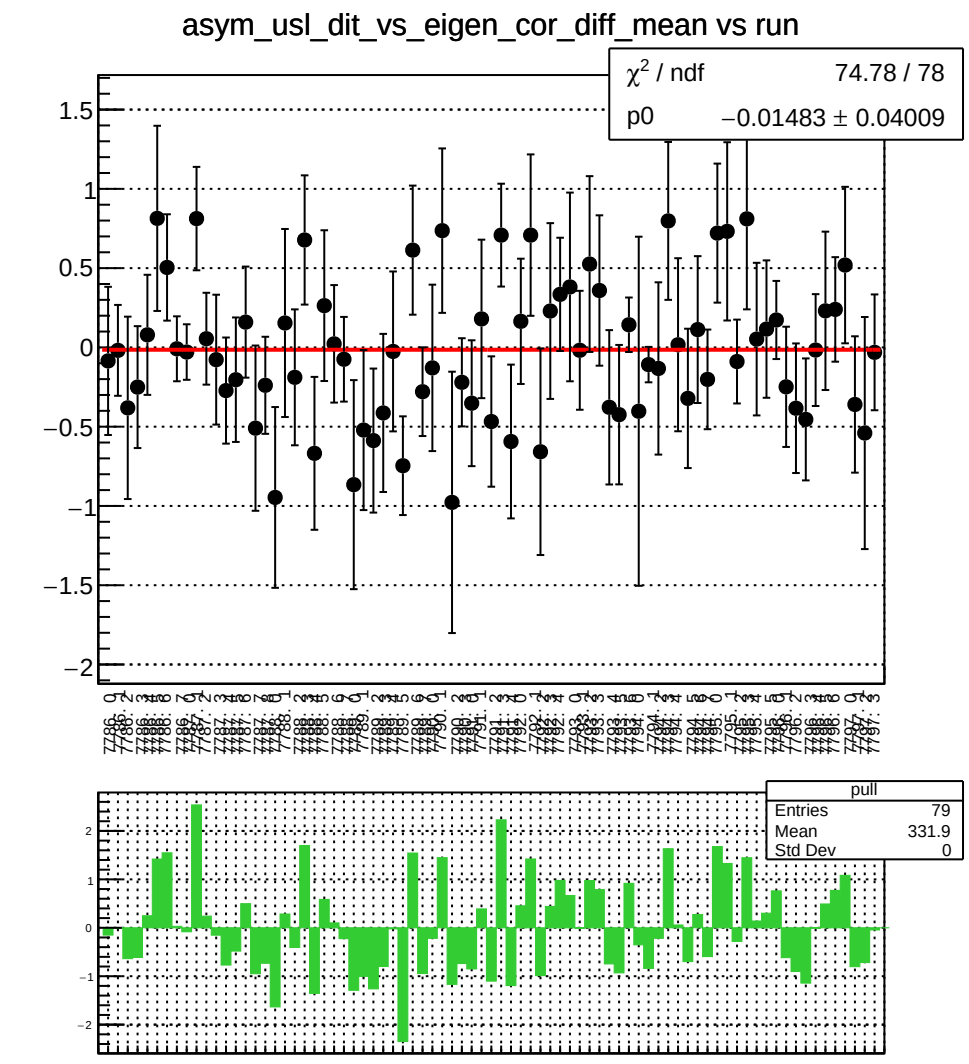

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.84 / 78
p0 −1.461e−13 ± 1.458e−13
pull
Entries 79
Mean −41.61
Std Dev 0
pull1D
Entries 79
Mean 0.04091
Std Dev 0.9258

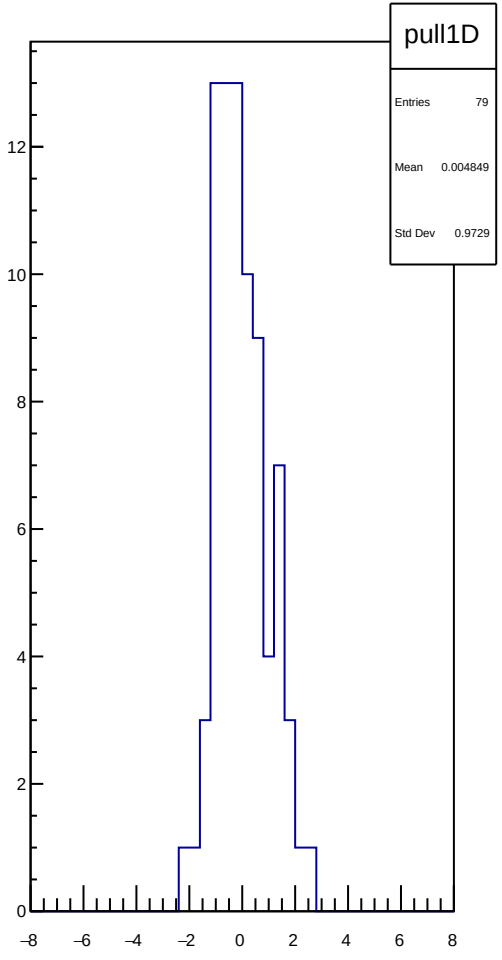

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.868e+05 / 78
p0 1.003e−10 ± 1.031e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

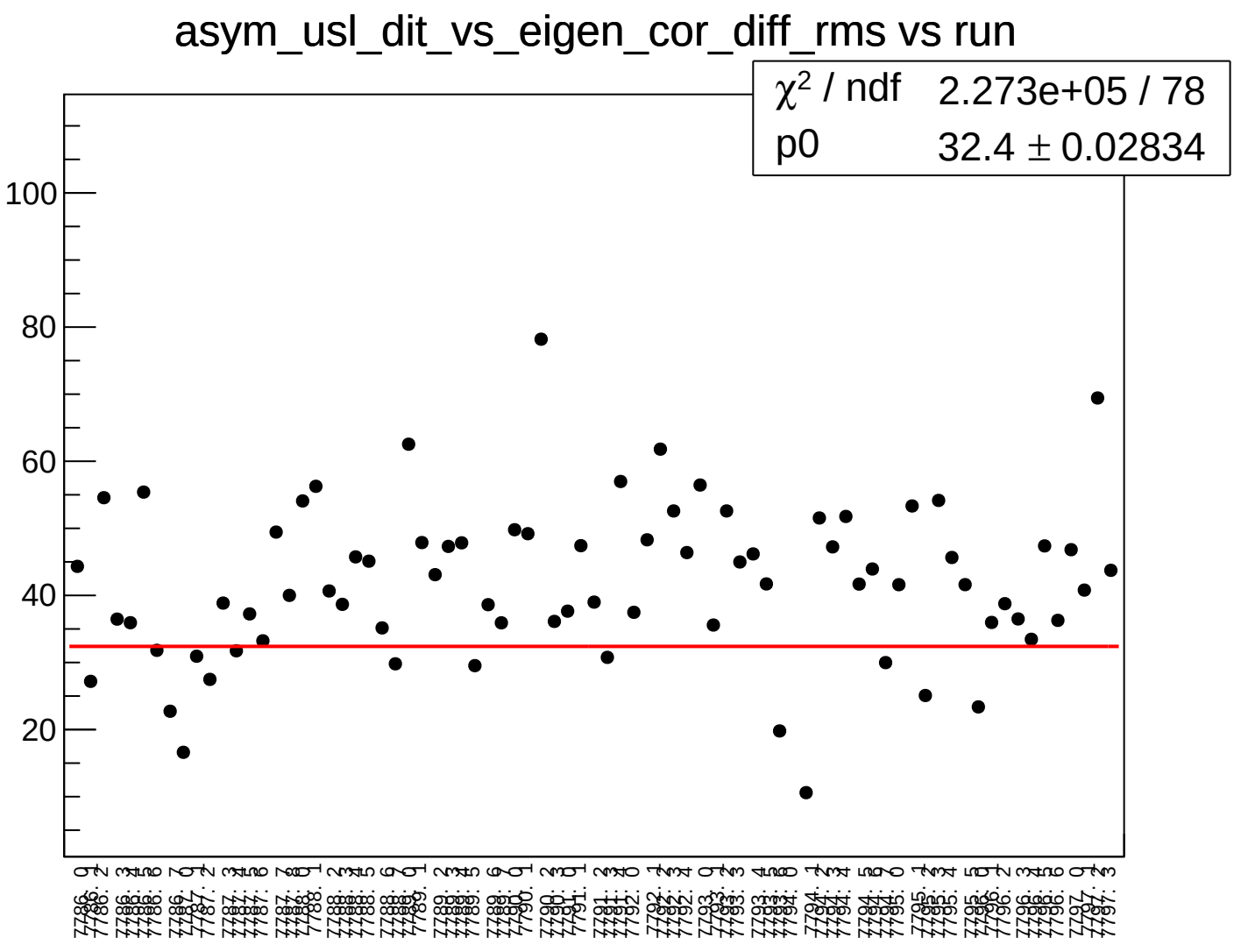

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 74.78 / 78
p0 −0.01483 ± 0.04009
pull
Entries 79
Mean 331.9
Std Dev 0

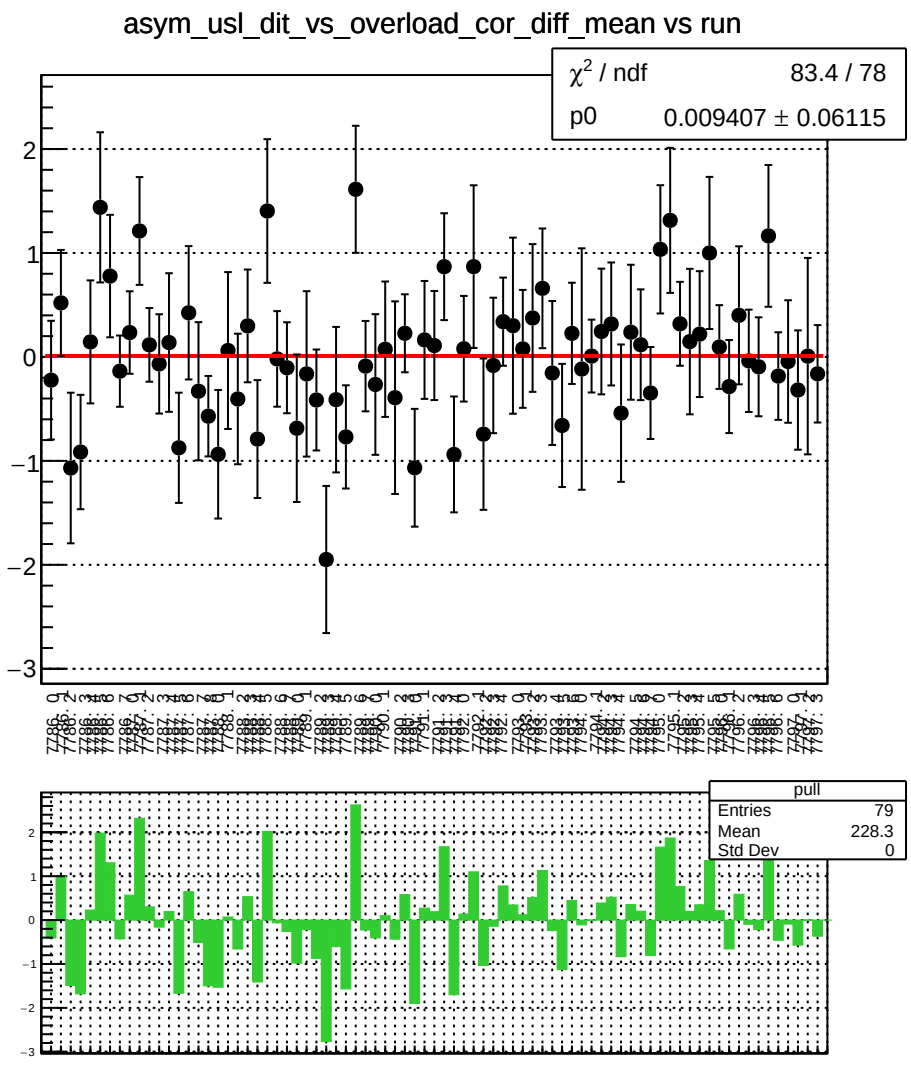

pull1D
Entries 79
Mean 0.004849
Std Dev 0.9729

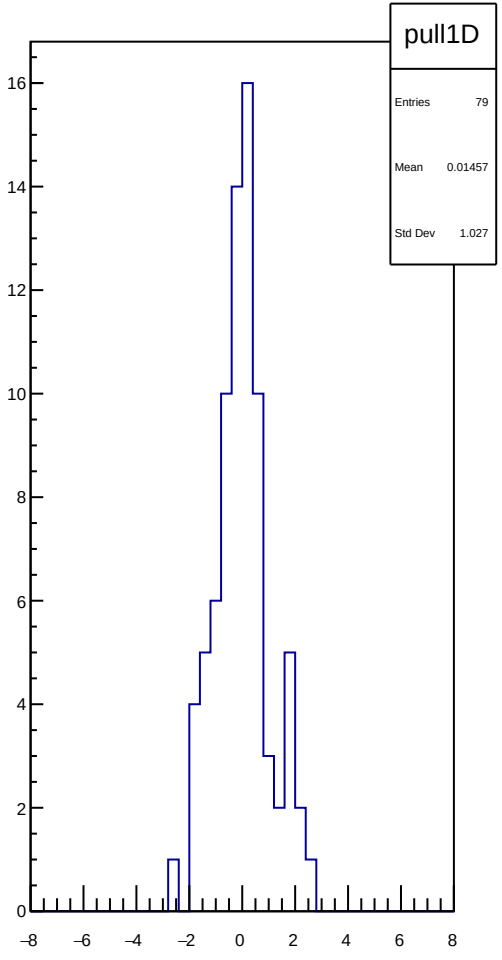

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 2.273e+05 / 78
p0 32.4 ± 0.02834
100
80
60
40
20

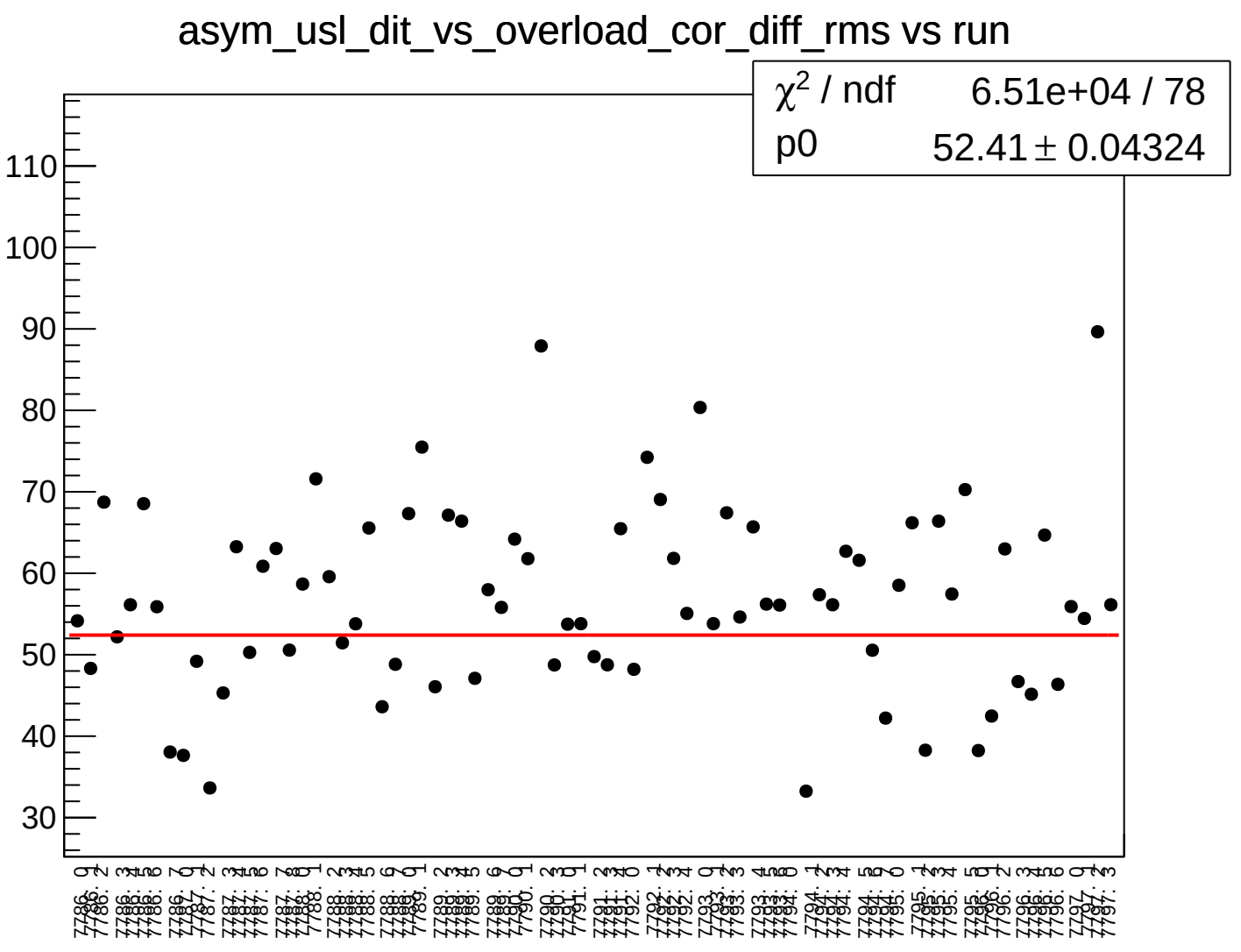

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.78 / 78
p0 −0.01483 ± 0.04009
pull
Entries 79
Mean 331.9
Std Dev 0

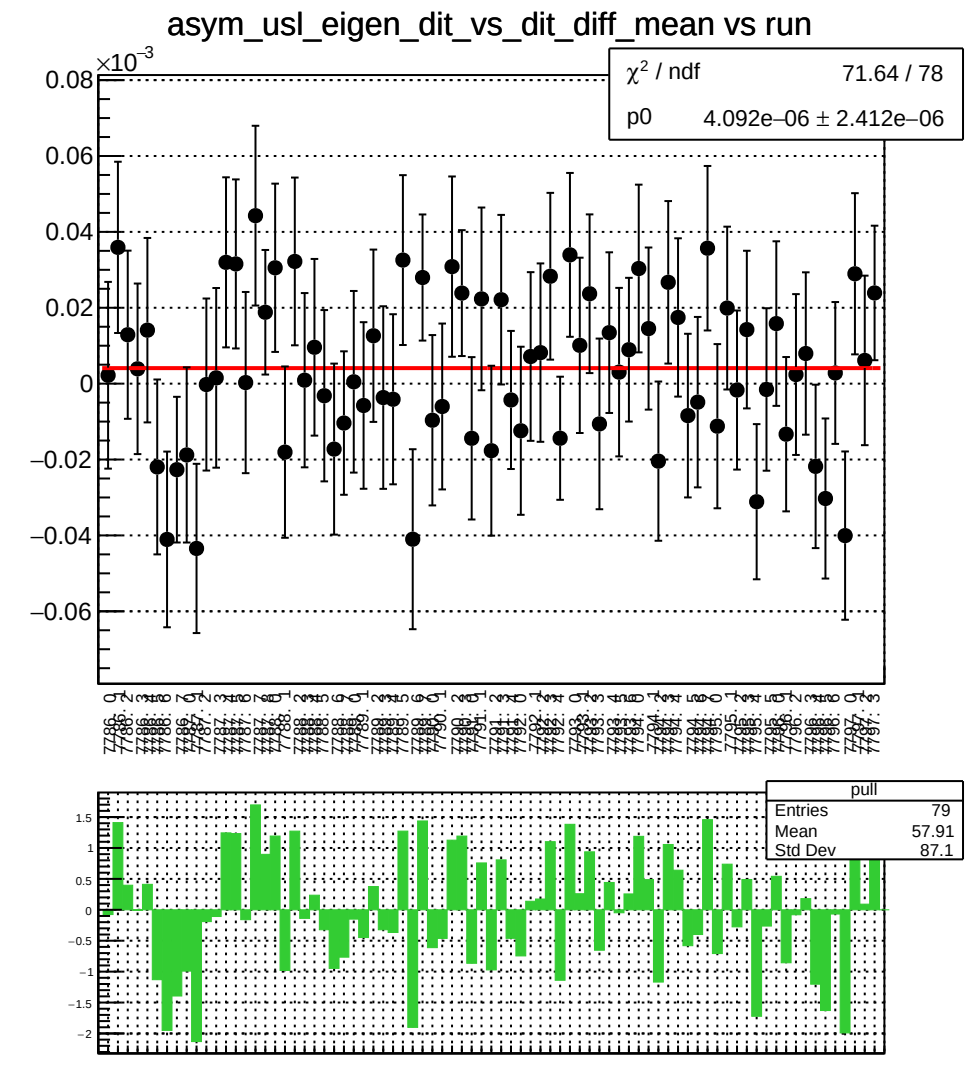

pull1D
Entries 79
Mean 0.004849
Std Dev 0.9729

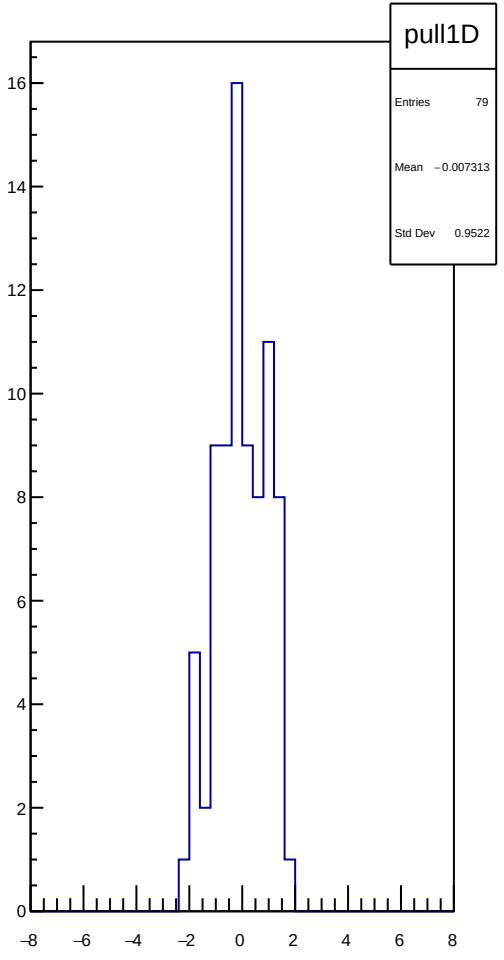

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.273e+05 / 78
p0 32.4 ± 0.02834
100
80
60
40
20

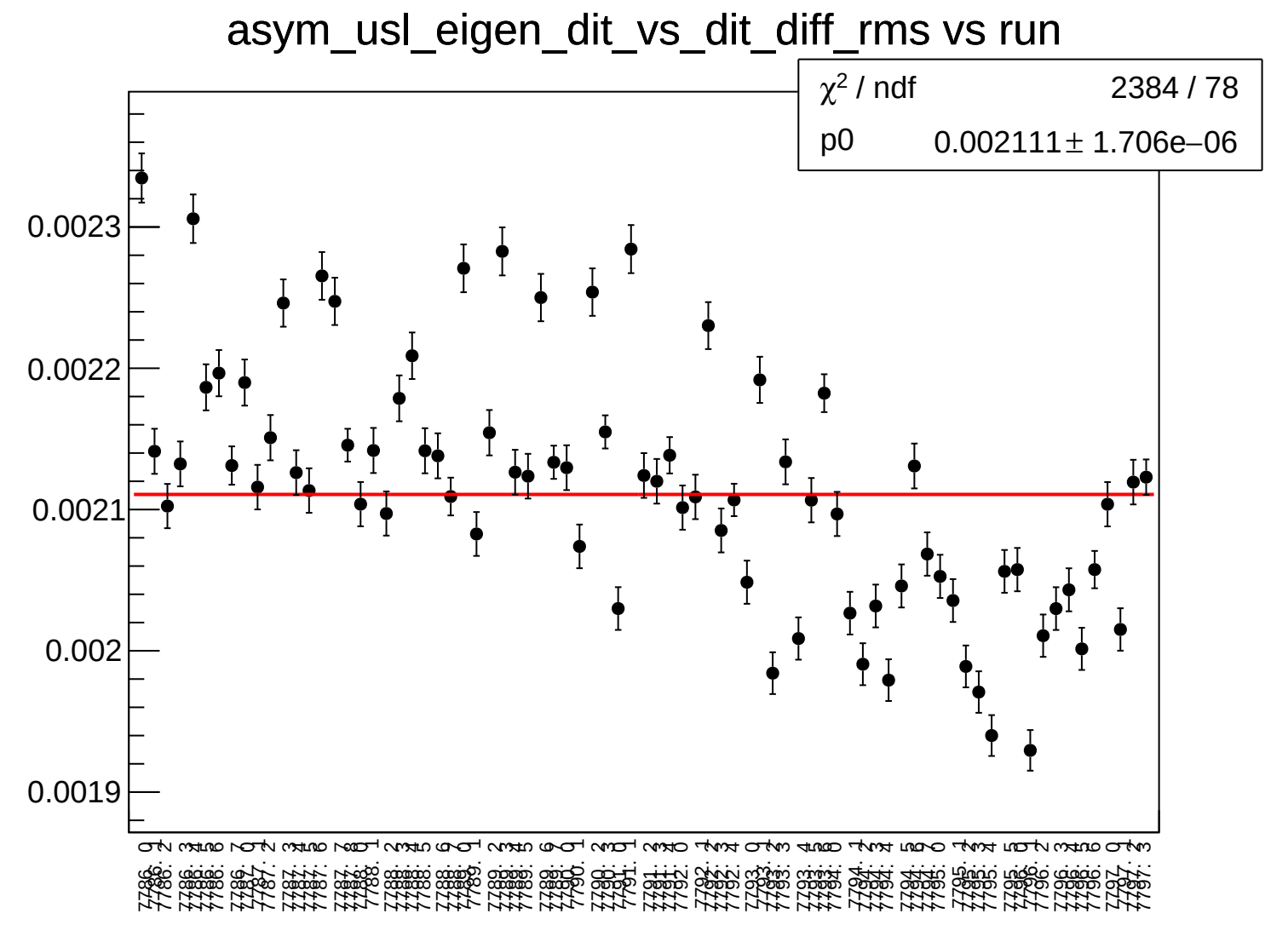

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.4 / 78
p0 0.009407 ± 0.06115
pull
Entries 79
Mean 228.3
Std Dev 0

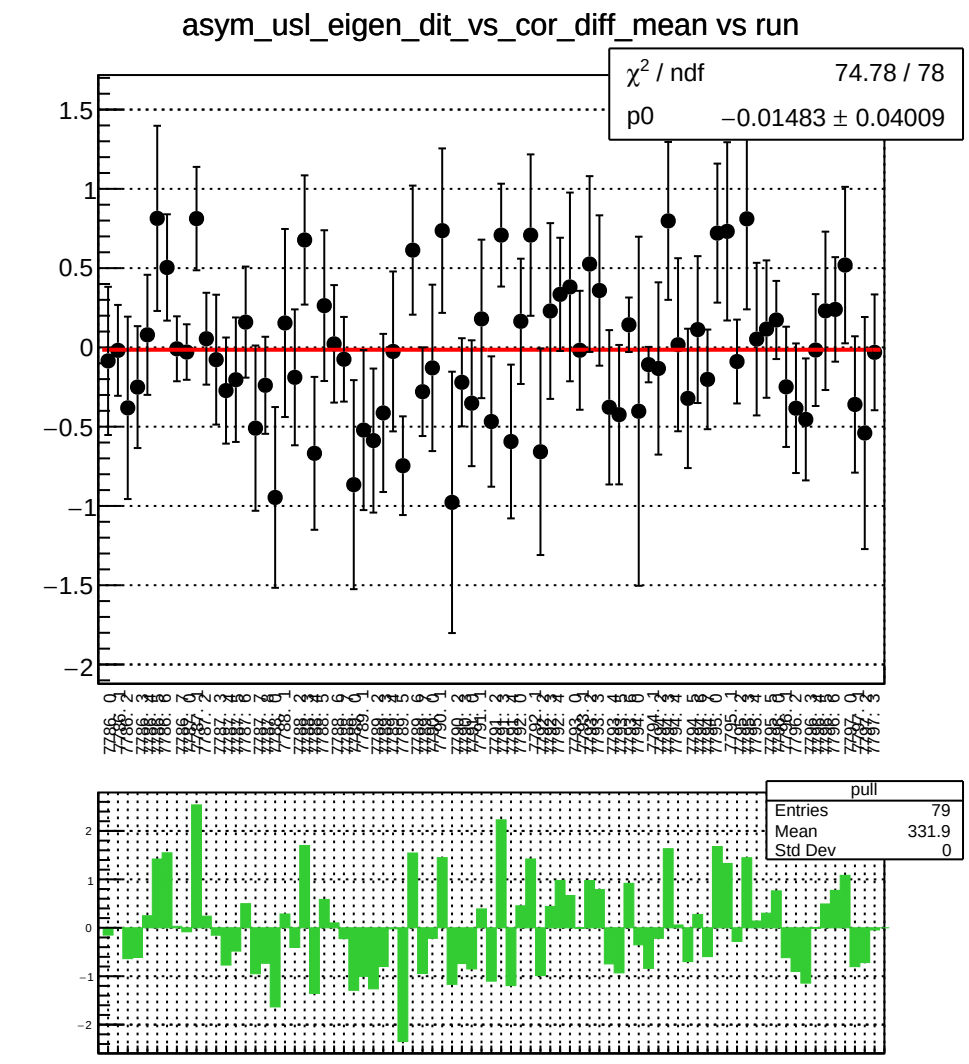

pull1D
Entries 79
Mean 0.01457
Std Dev 1.027

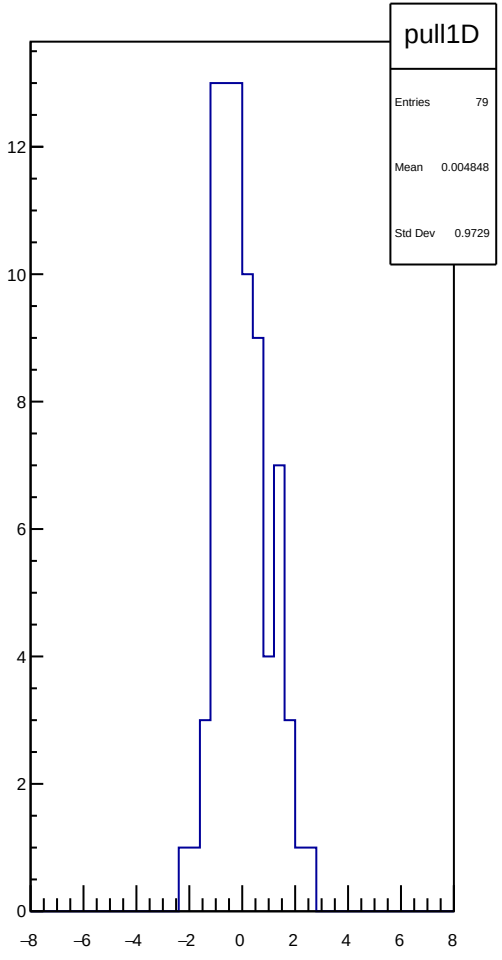

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 6.51e+04 / 78
p0 52.41 ± 0.04324
110
100
90
80
70
60
50
40
30

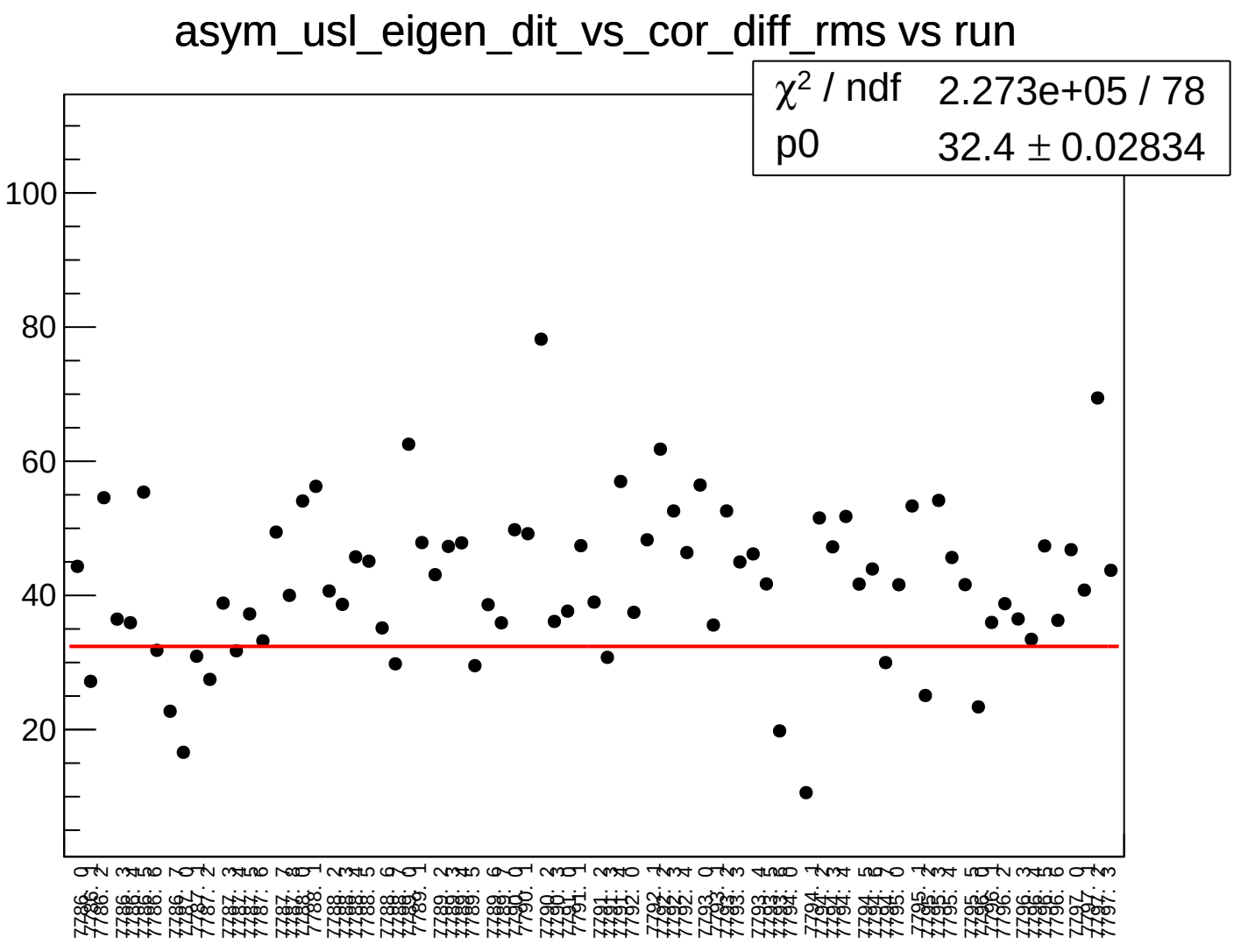

asym_usl_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.64 / 78
p0 4.092e−06 ± 2.412e−06
pull
Entries 79
Mean 57.91
Std Dev 87.1

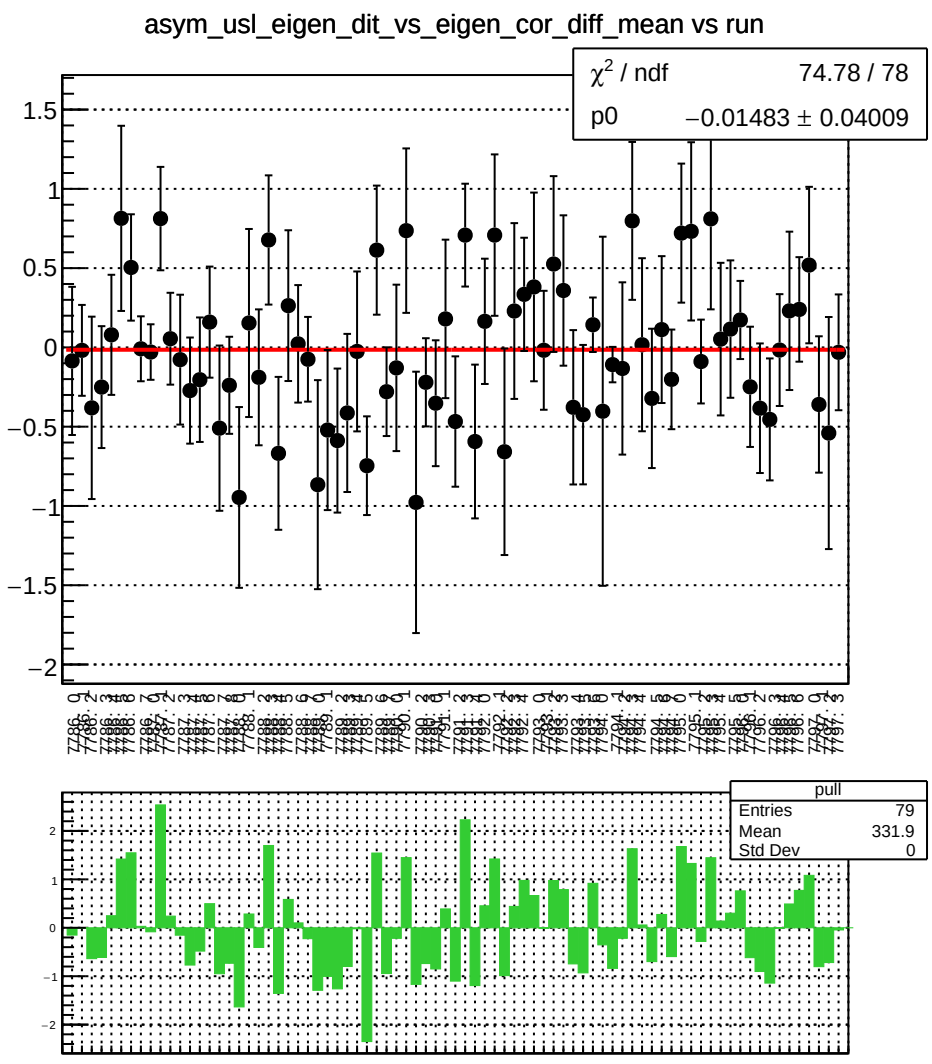

pull1D
Entries 79
Mean −0.007313
Std Dev 0.9522

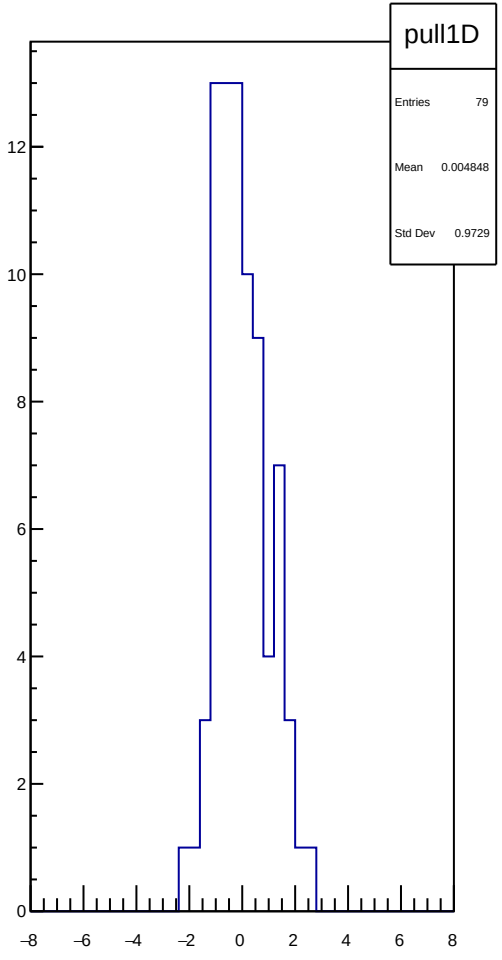

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2384 / 78
p0 0.002111 ± 1.706e−06
0.0023
0.0022
0.0021
0.002
0.0019

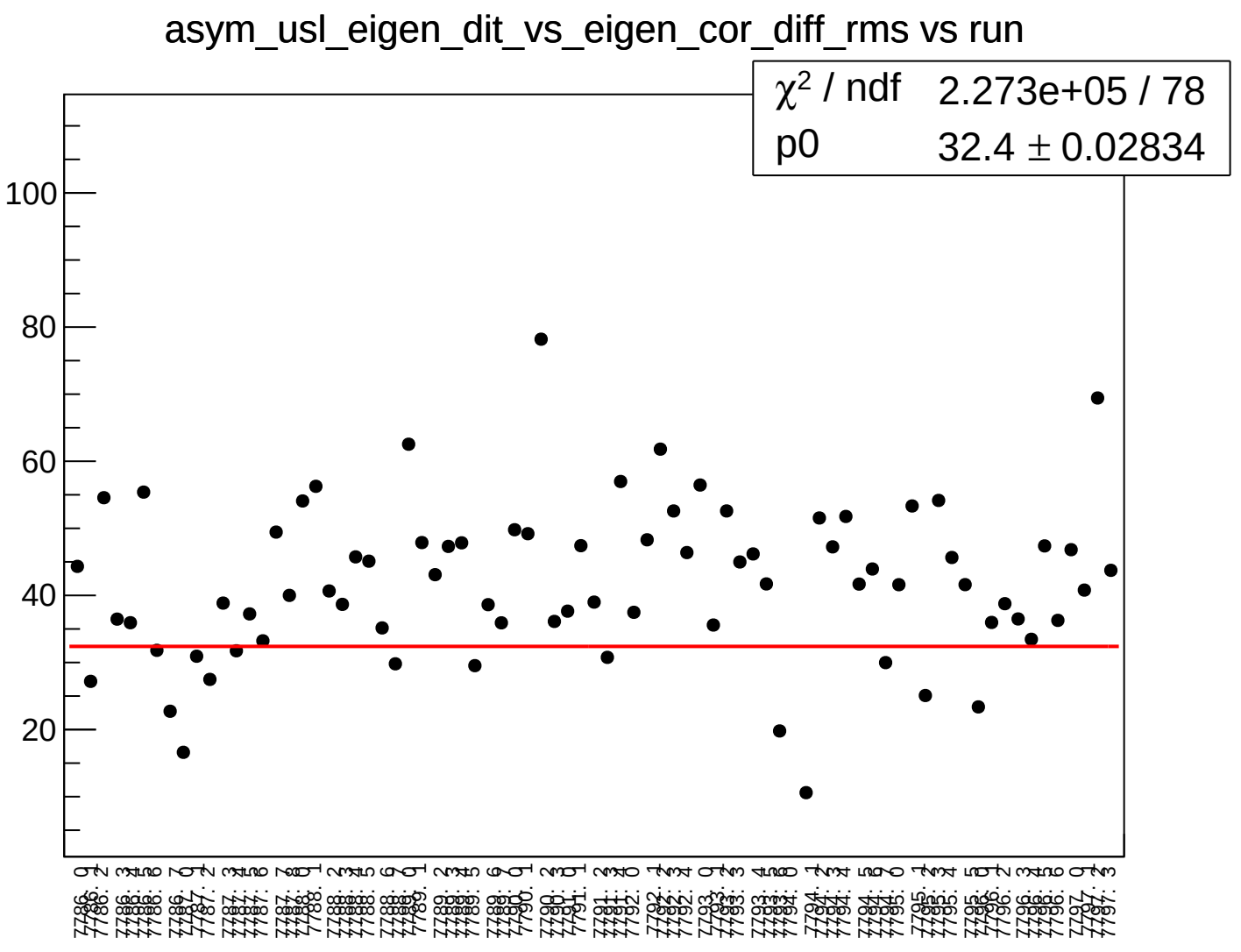

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 74.78 / 78
p0 −0.01483 ± 0.04009
pull
Entries 79
Mean 331.9
Std Dev 0

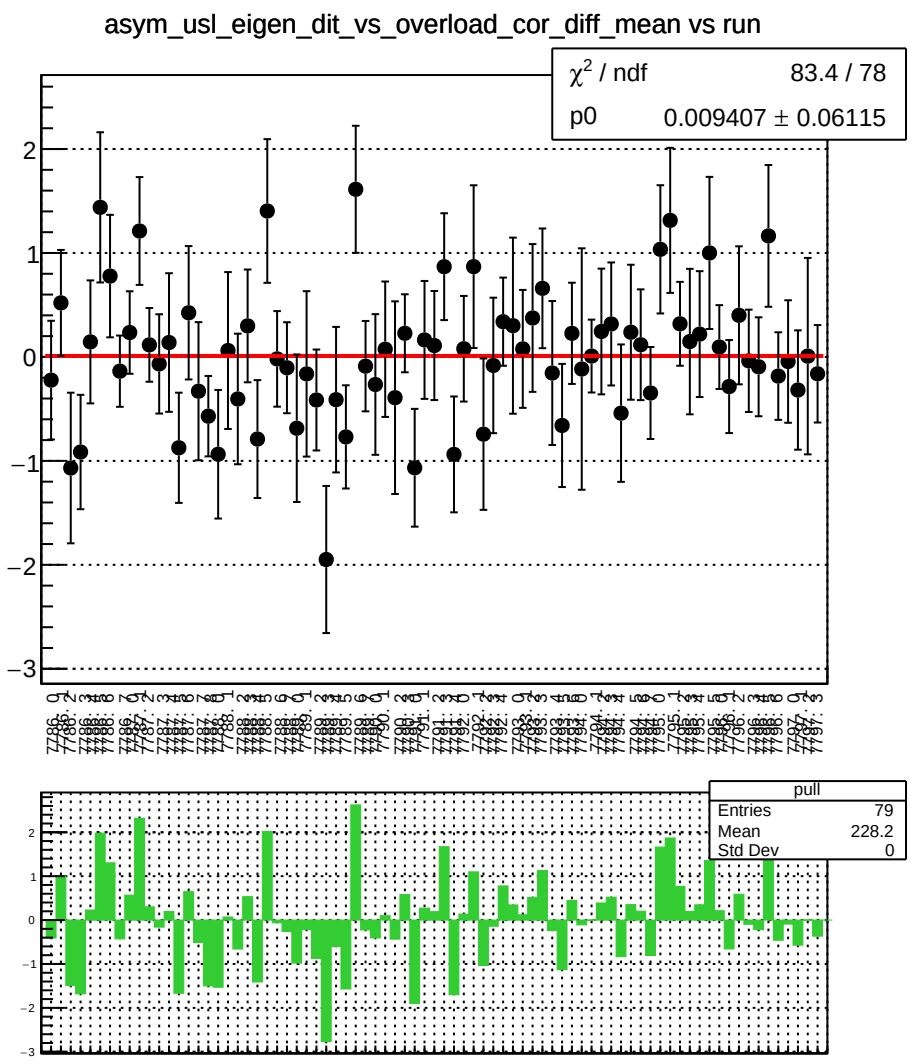

pull1D
Entries 79
Mean 0.004848
Std Dev 0.9729

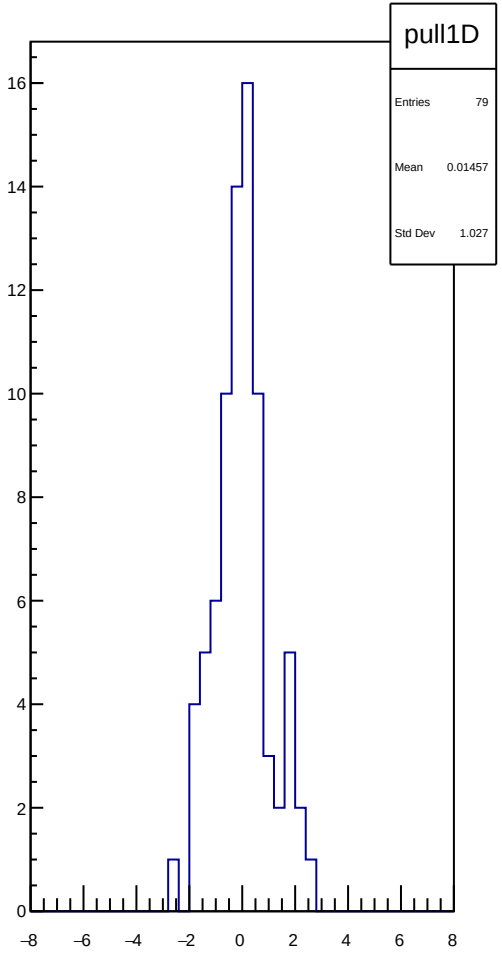

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.273e+05 / 78
p0 32.4 ± 0.02834
100
80
60
40
20

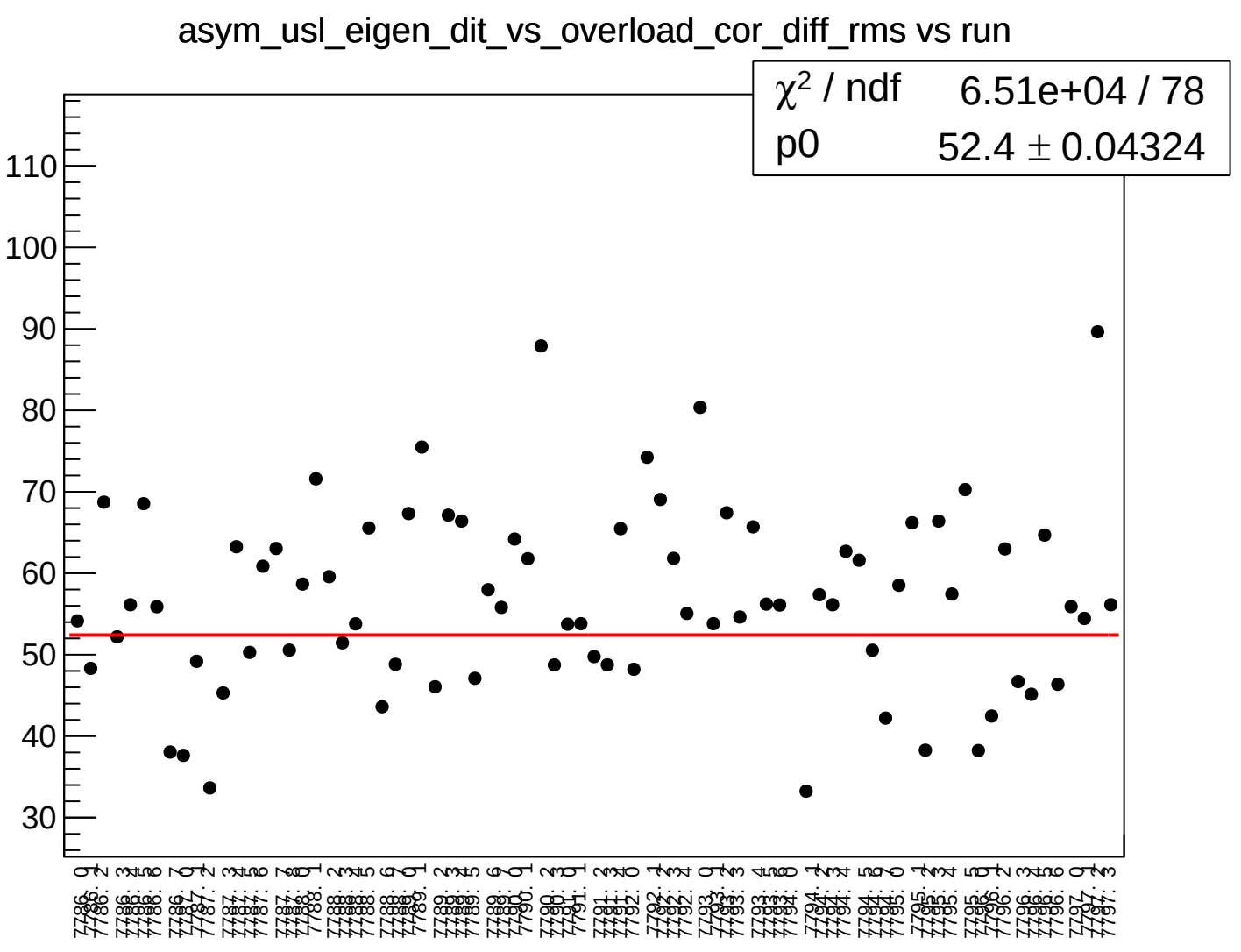

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.78 / 78
p0 −0.01483 ± 0.04009
pull
Entries 79
Mean 331.9
Std Dev 0

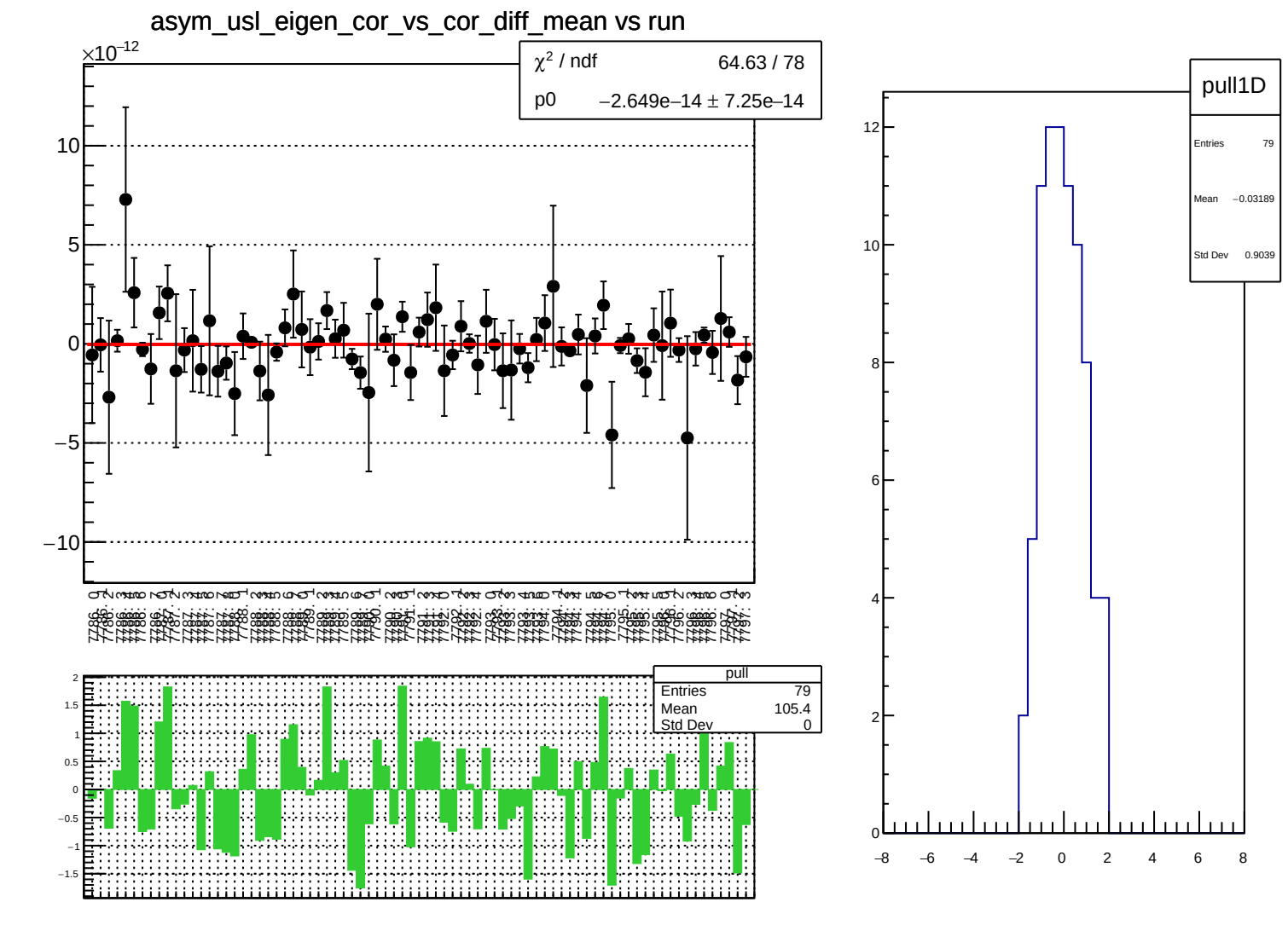

pull1D
Entries 79
Mean 0.004848
Std Dev 0.9729

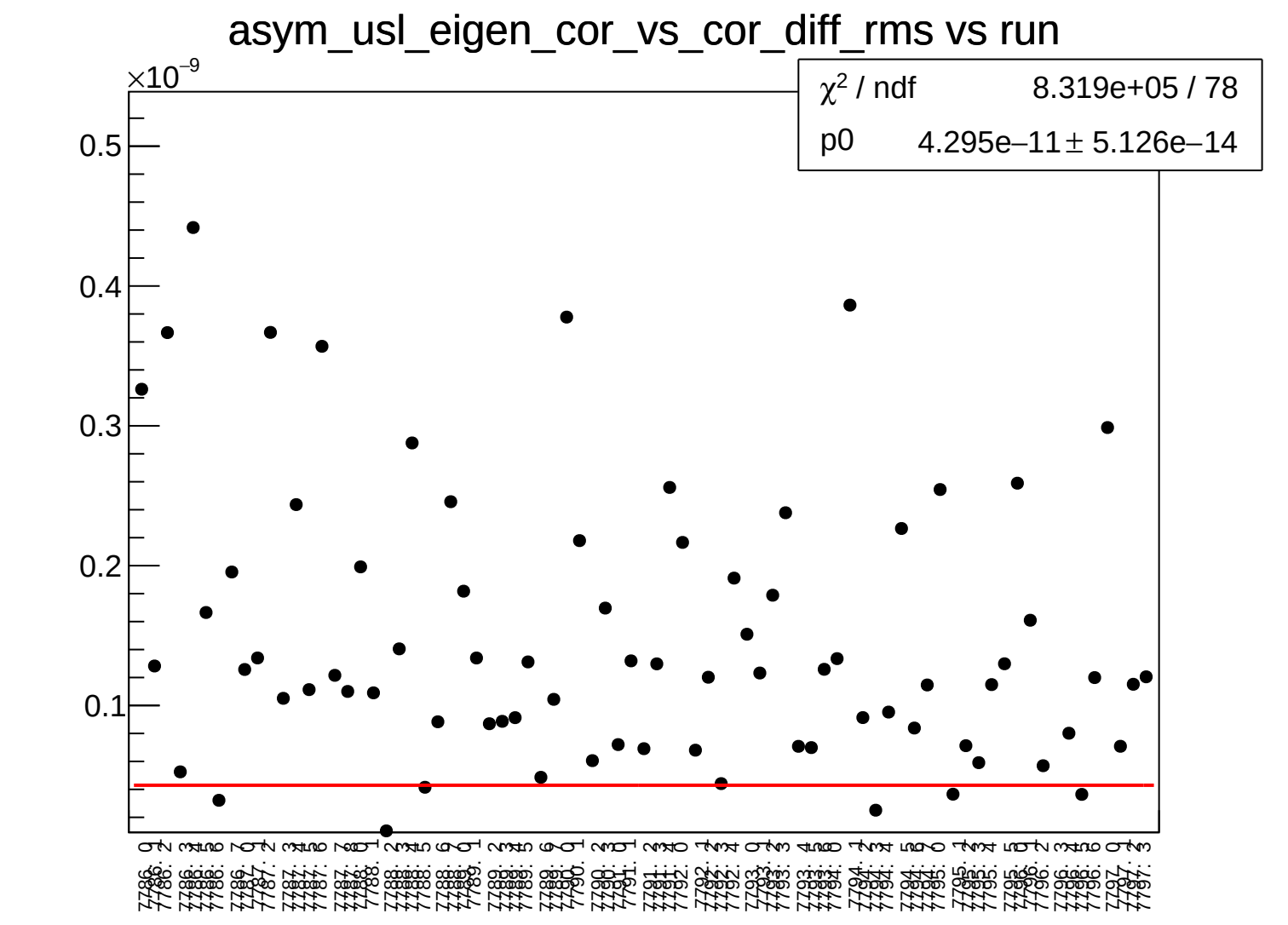

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.273e+05 / 78
p0 32.4 ± 0.02834
100
80
60
40
20

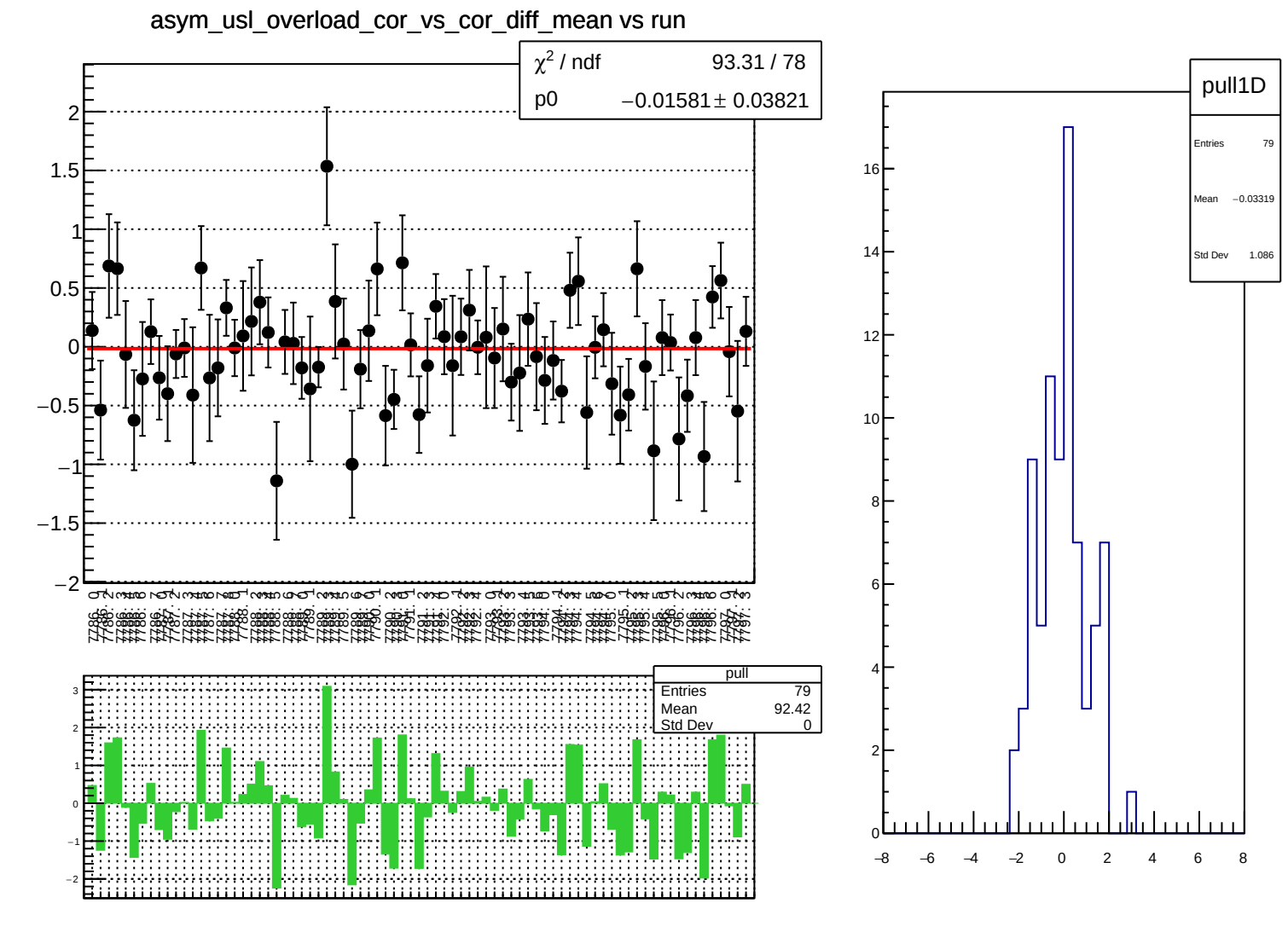

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.4 / 78
p0 0.009407 ± 0.06115
pull
Entries 79
Mean 228.2
Std Dev 0

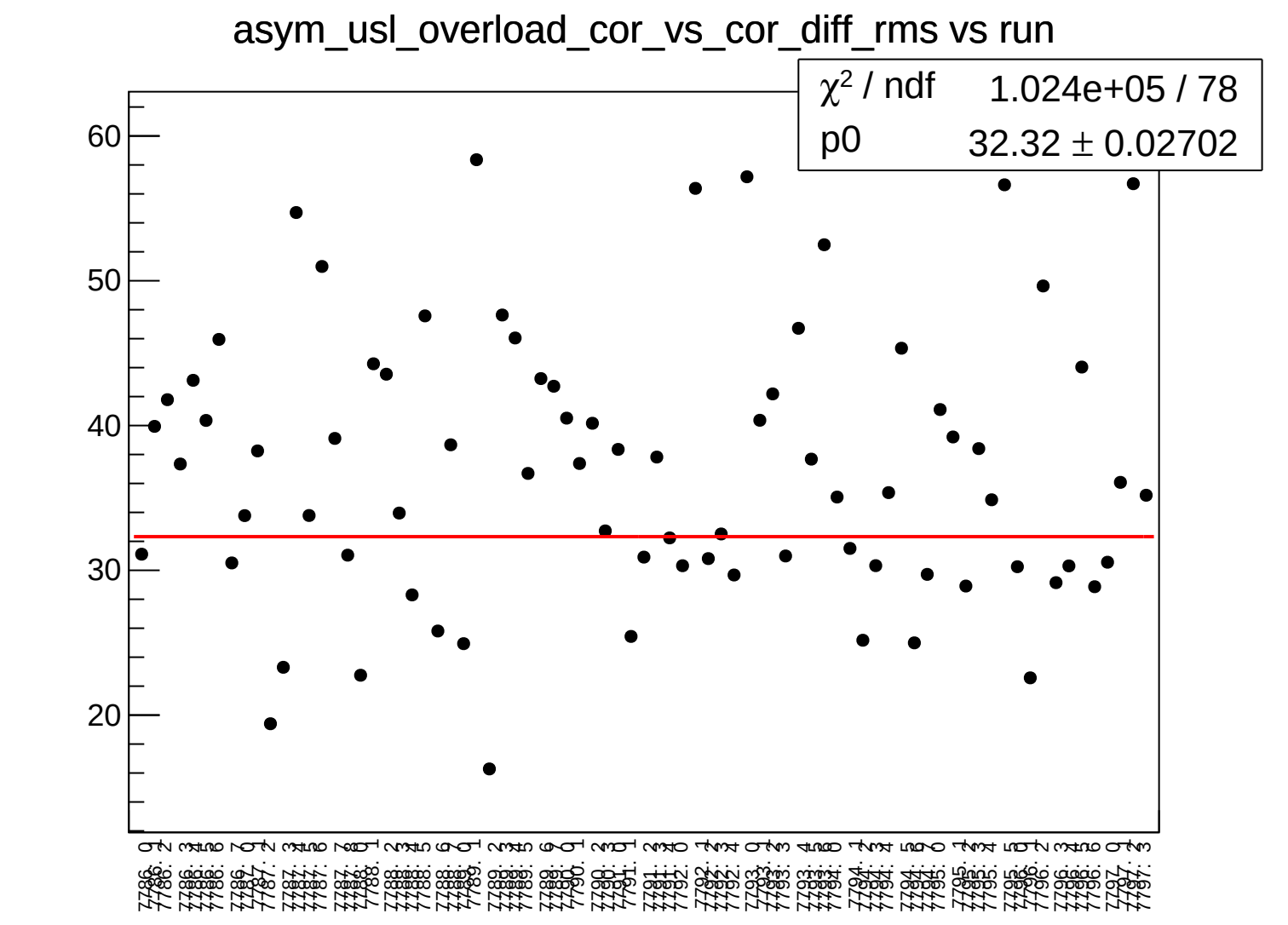

pull1D
Entries 79
Mean 0.01457
Std Dev 1.027

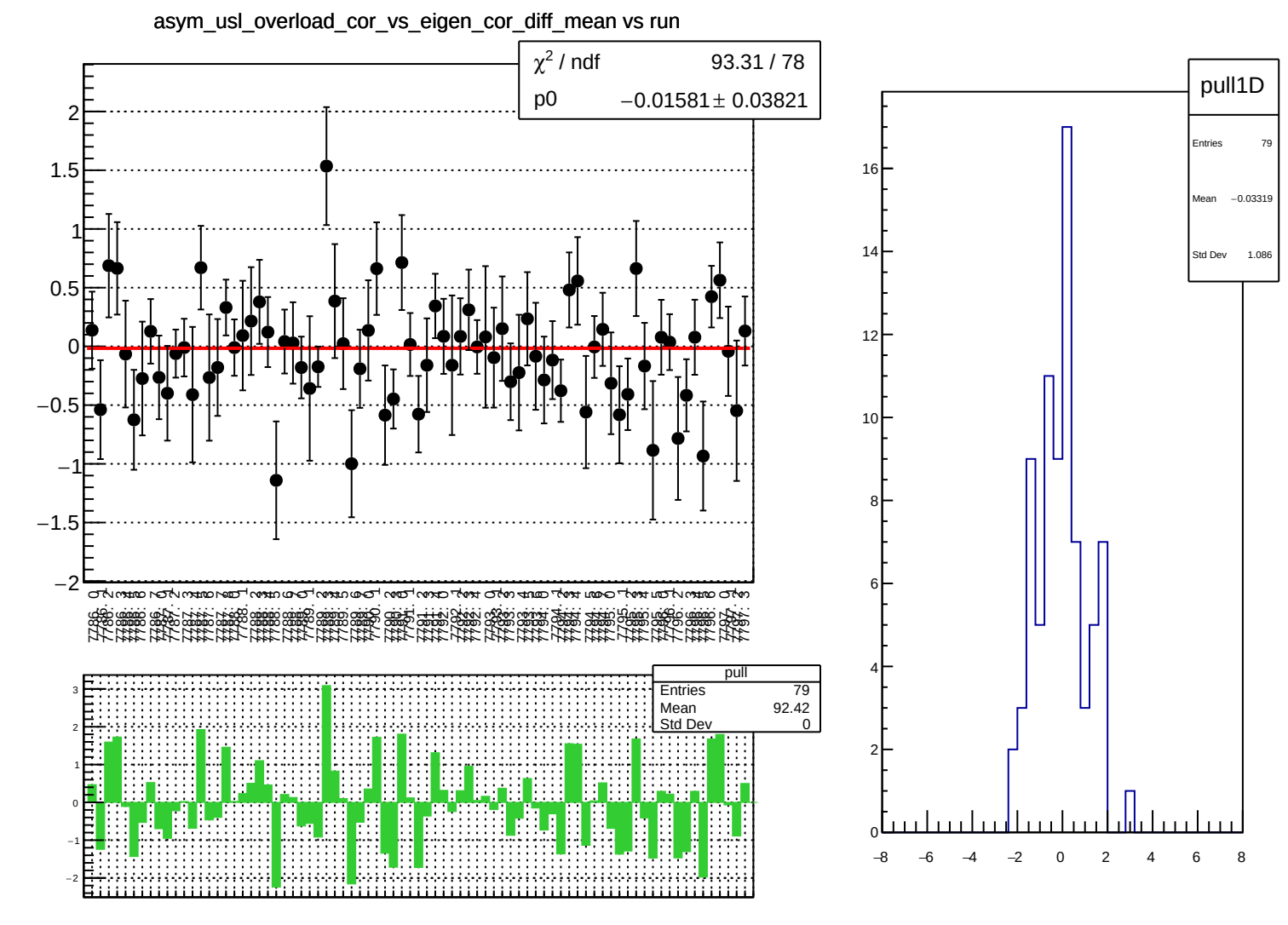

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.51e+04 / 78
p0 52.4 ± 0.04324
110
100
90
80
70
60
50
40
30

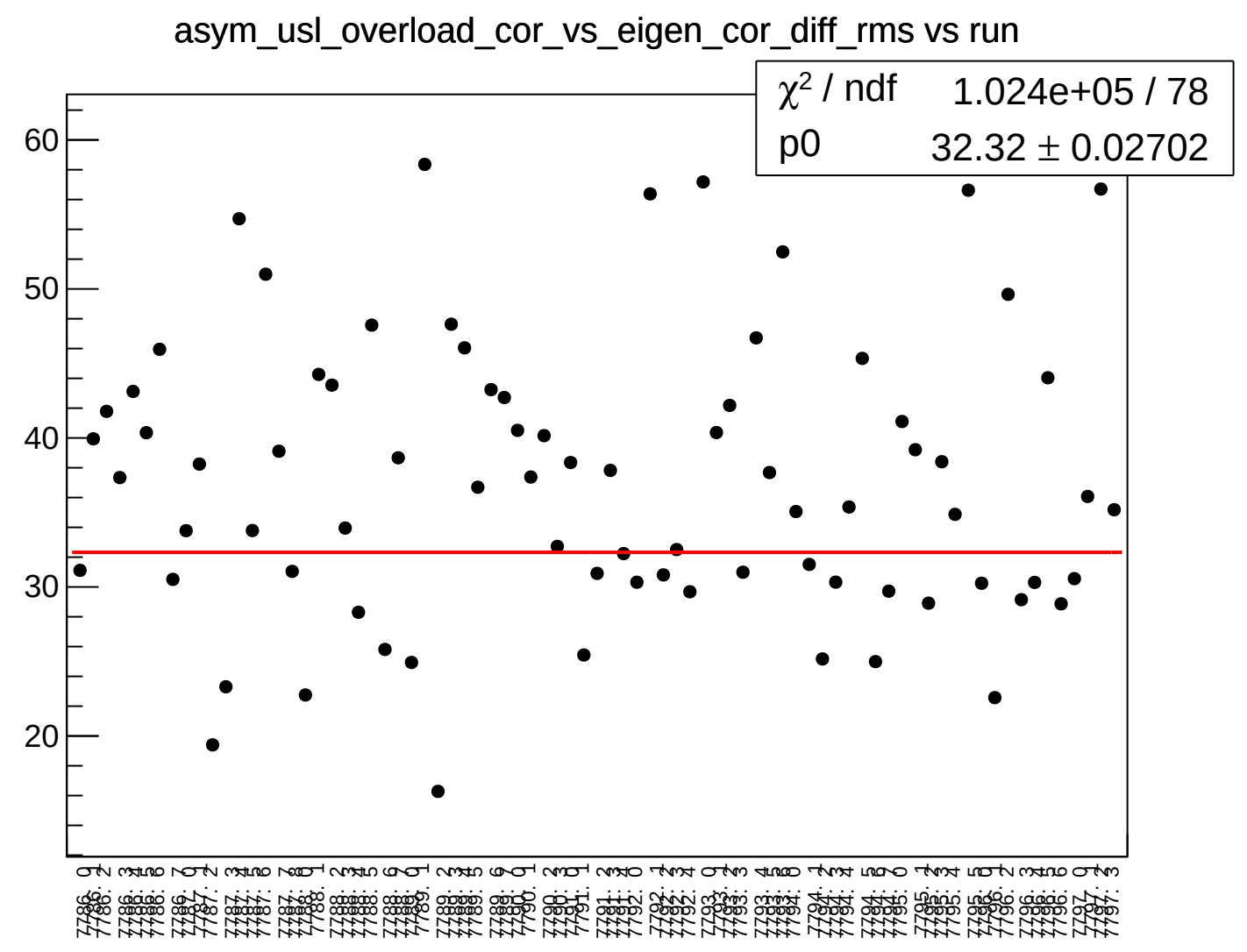

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.63 / 78
p0 −2.649e−14 ± 7.25e−14
pull
Entries 79
Mean 105.4
Std Dev 0
pull1D
Entries 79
Mean −0.03189
Std Dev 0.9039

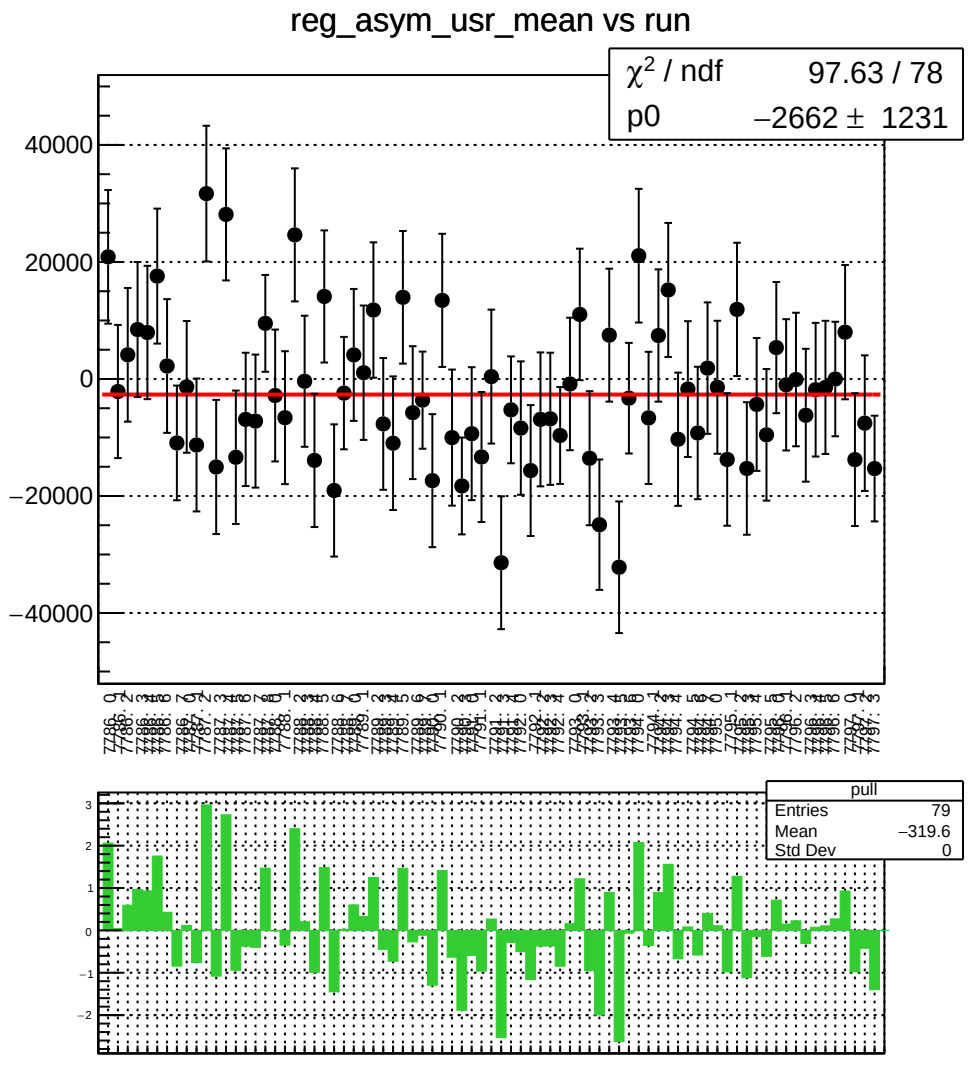

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.319e+05 / 78
p0 4.295e−11 ± 5.126e−14
0.5
0.4
0.3
0.2
0.1

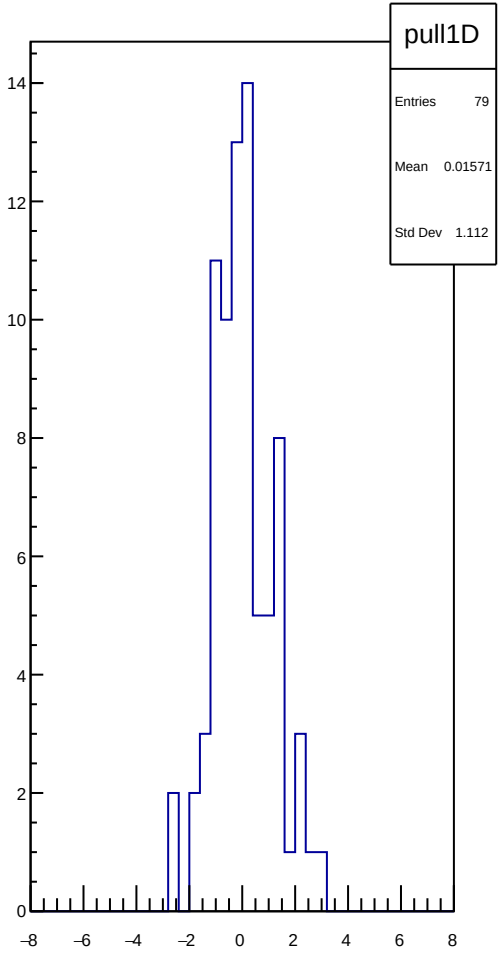

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 93.31 / 78
p0 −0.01581 ± 0.03821
pull
Entries 79
Mean 92.42
Std Dev 0
pull1D
Entries 79
Mean −0.03319
Std Dev 1.086

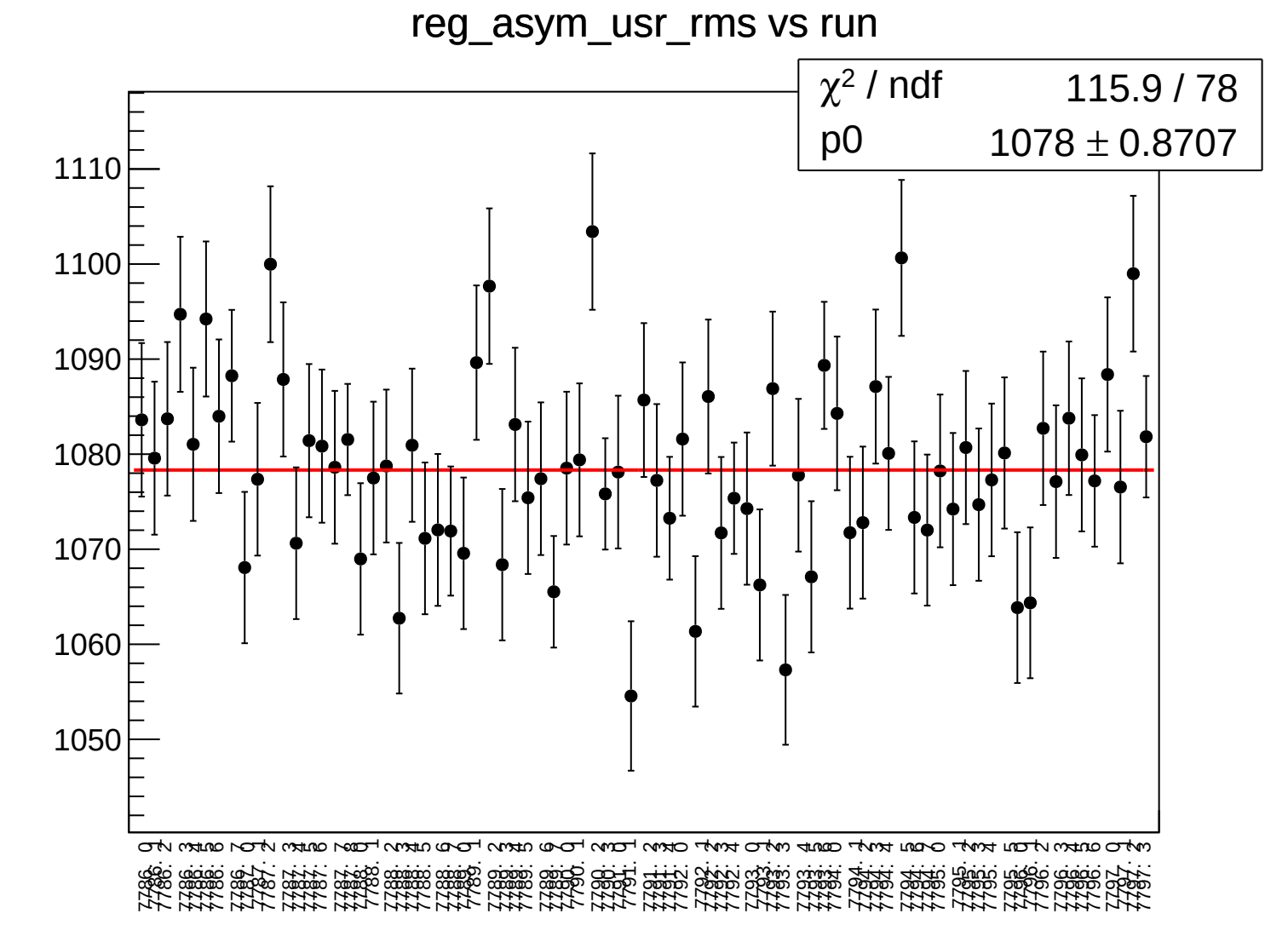

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.024e+05 / 78
p0 32.32 ± 0.02702
60
50
40
30
20

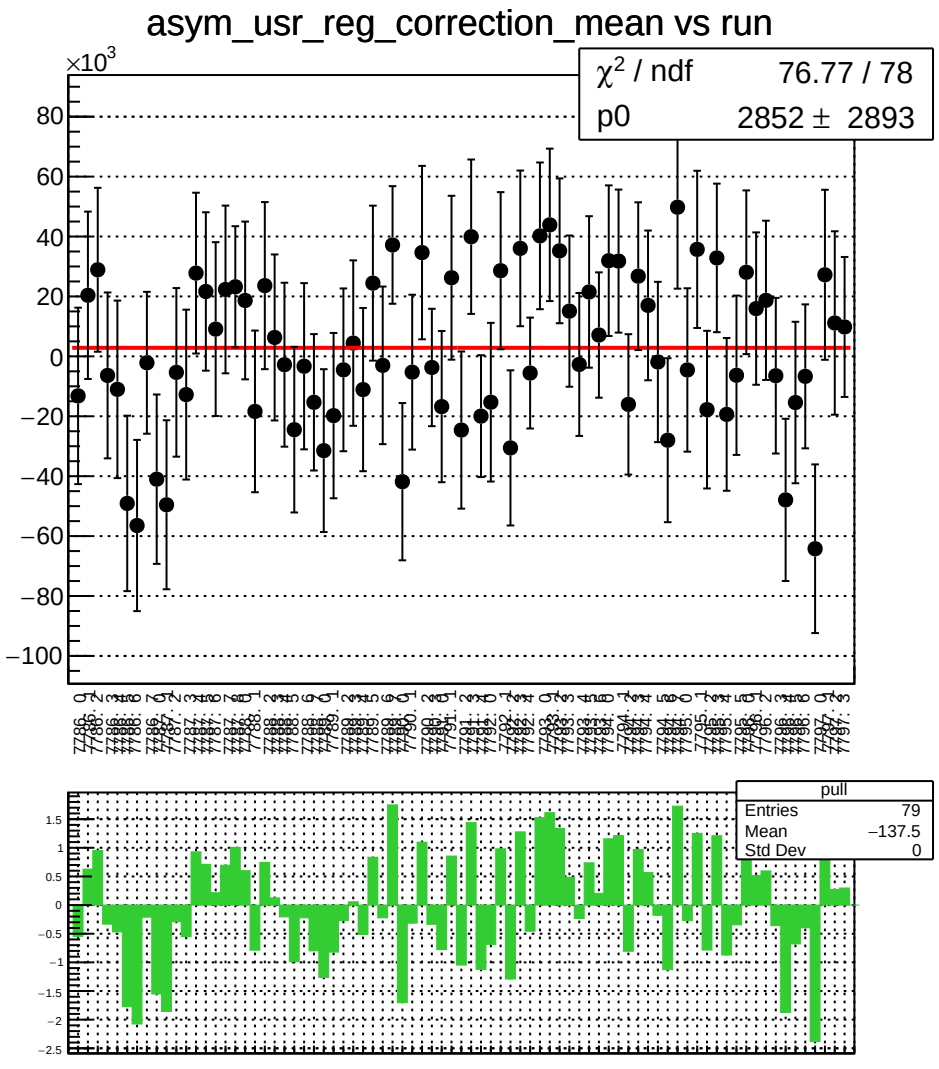

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.31 / 78
p0 −0.01581 ± 0.03821
pull
Entries 79
Mean 92.42
Std Dev 0
pull1D
Entries 79
Mean −0.03319
Std Dev 1.086

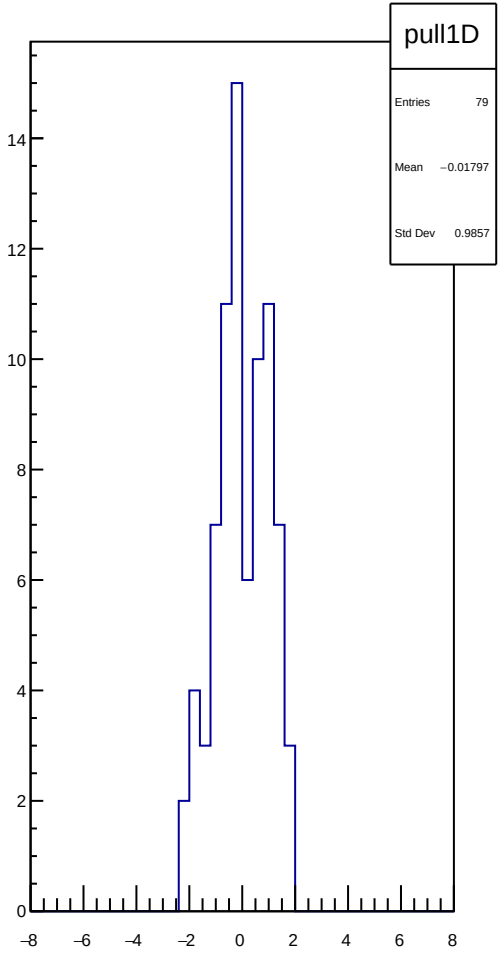

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.024e+05 / 78
p0 32.32 ± 0.02702
60
50
40
30
20

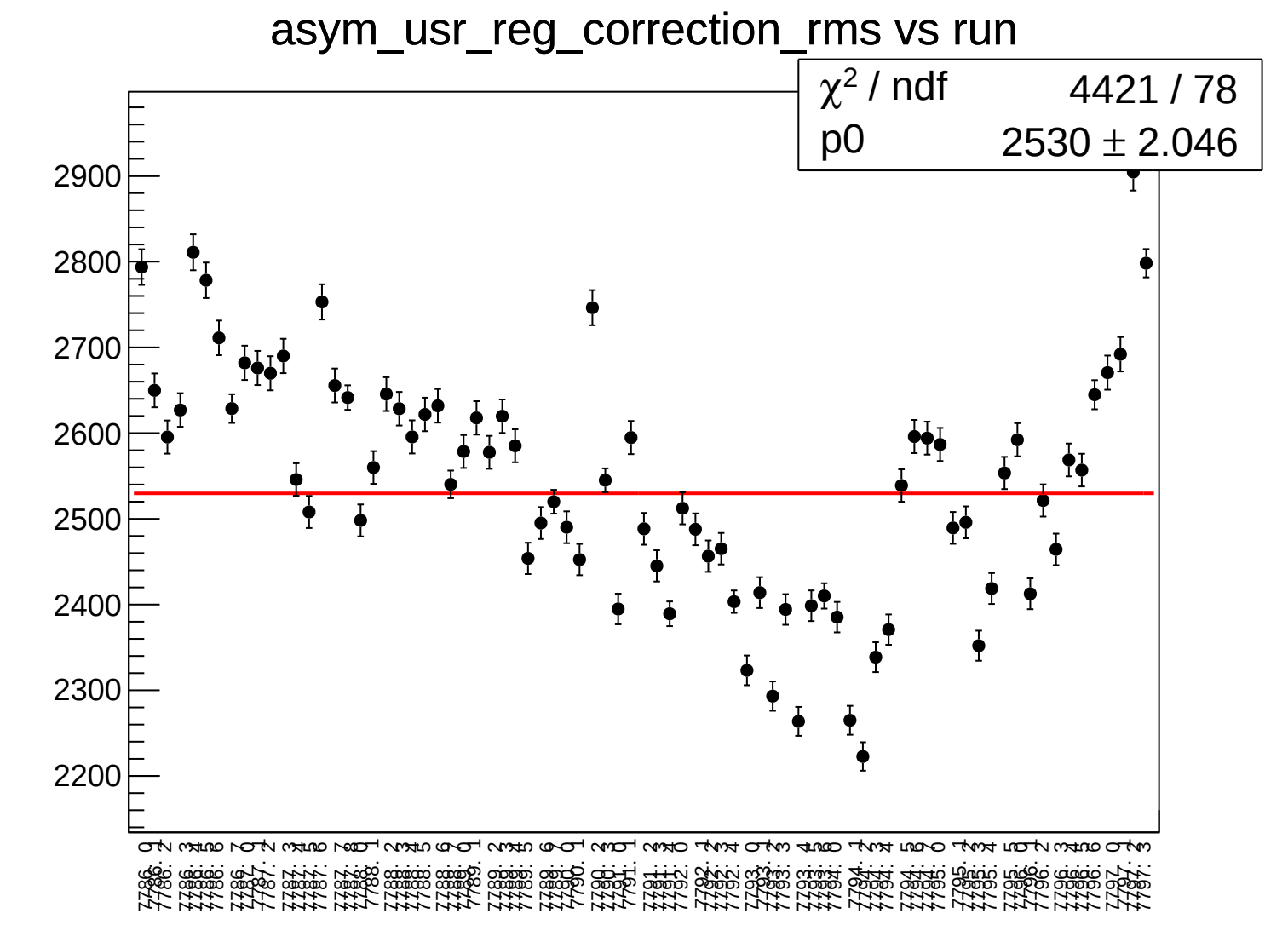

reg_asym_usr_mean vs run
χ² / ndf 97.63 / 78
p0 −2662 ± 1231
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −319.6
Std Dev 0
3
2
1
0
−1
−2

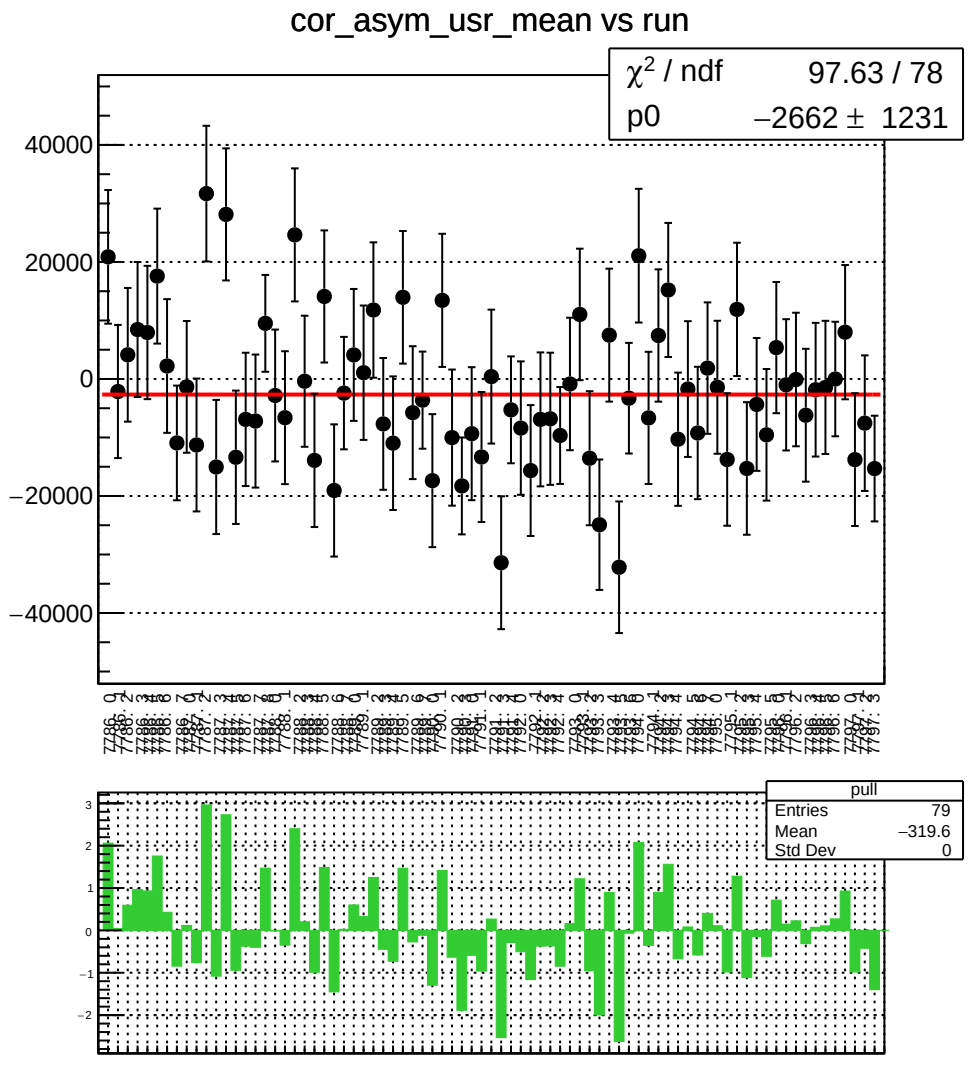

pull1D
Entries 79
Mean 0.01571
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

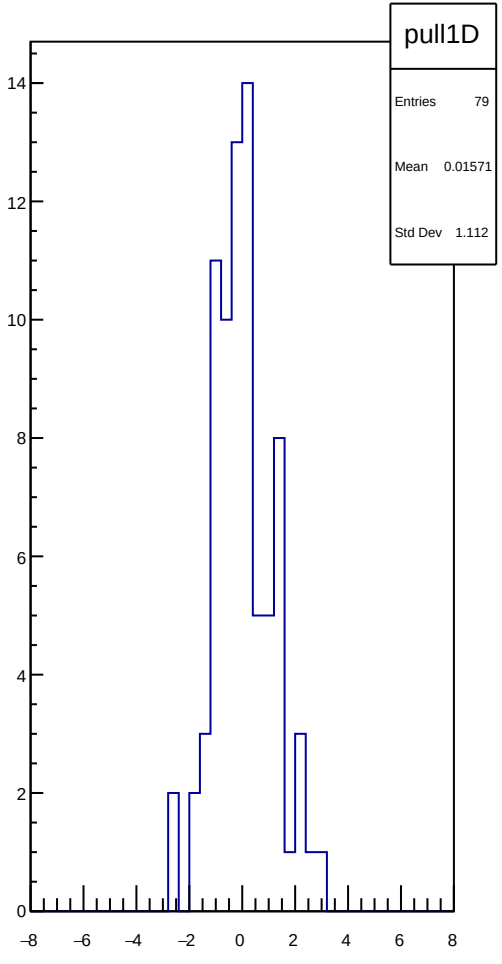

reg_asym_usr_rms vs run
χ^2 / ndf 115.9 / 78
p0 1078 ± 0.8707
1110
1100
1090
1080
1070
1060
1050

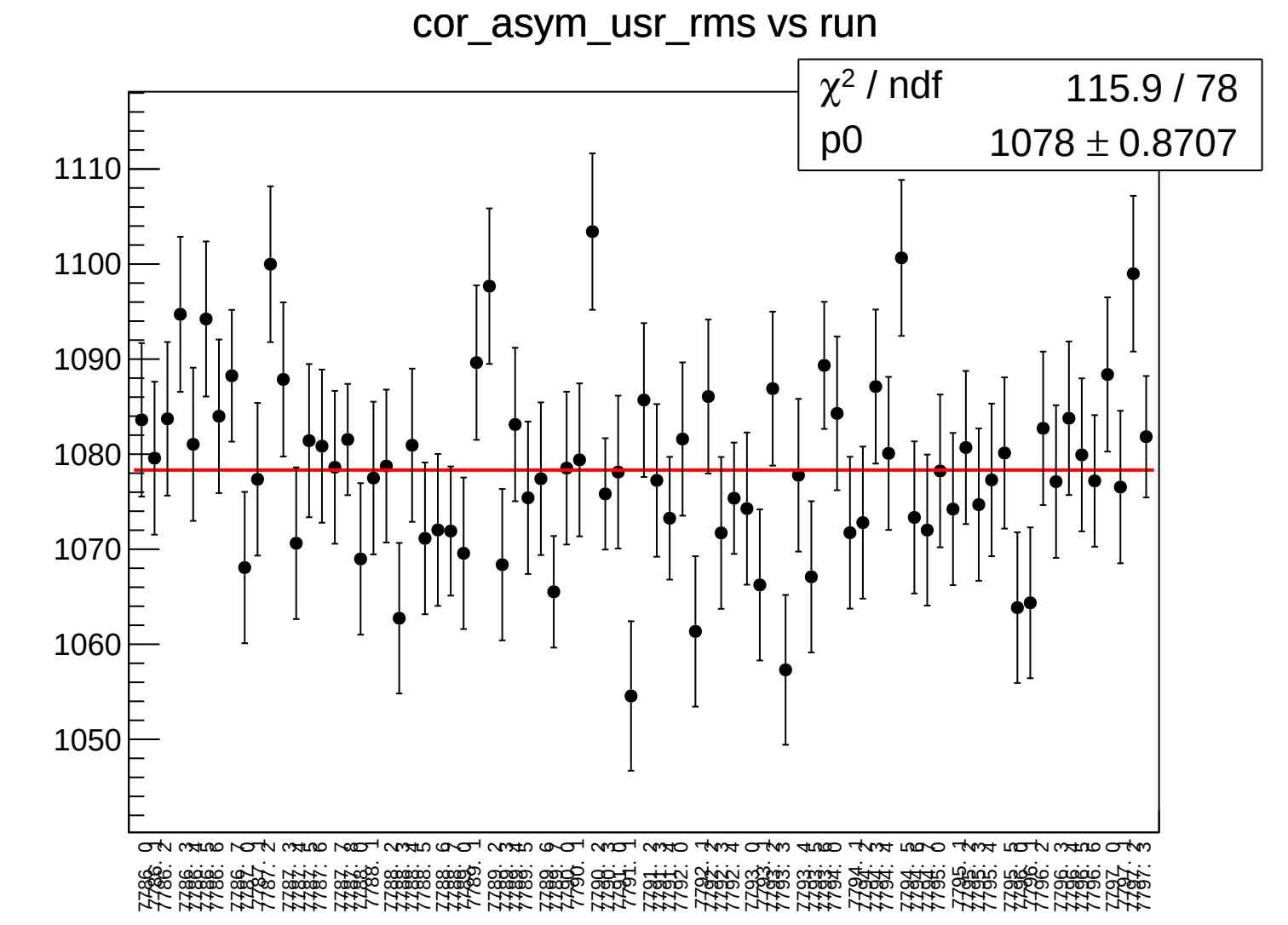

asym_usr_reg_correction_mean vs run
χ² / ndf 76.77 / 78
p0 2852 ± 2893
×10³
pull
Entries 79
Mean −137.5
Std Dev 0

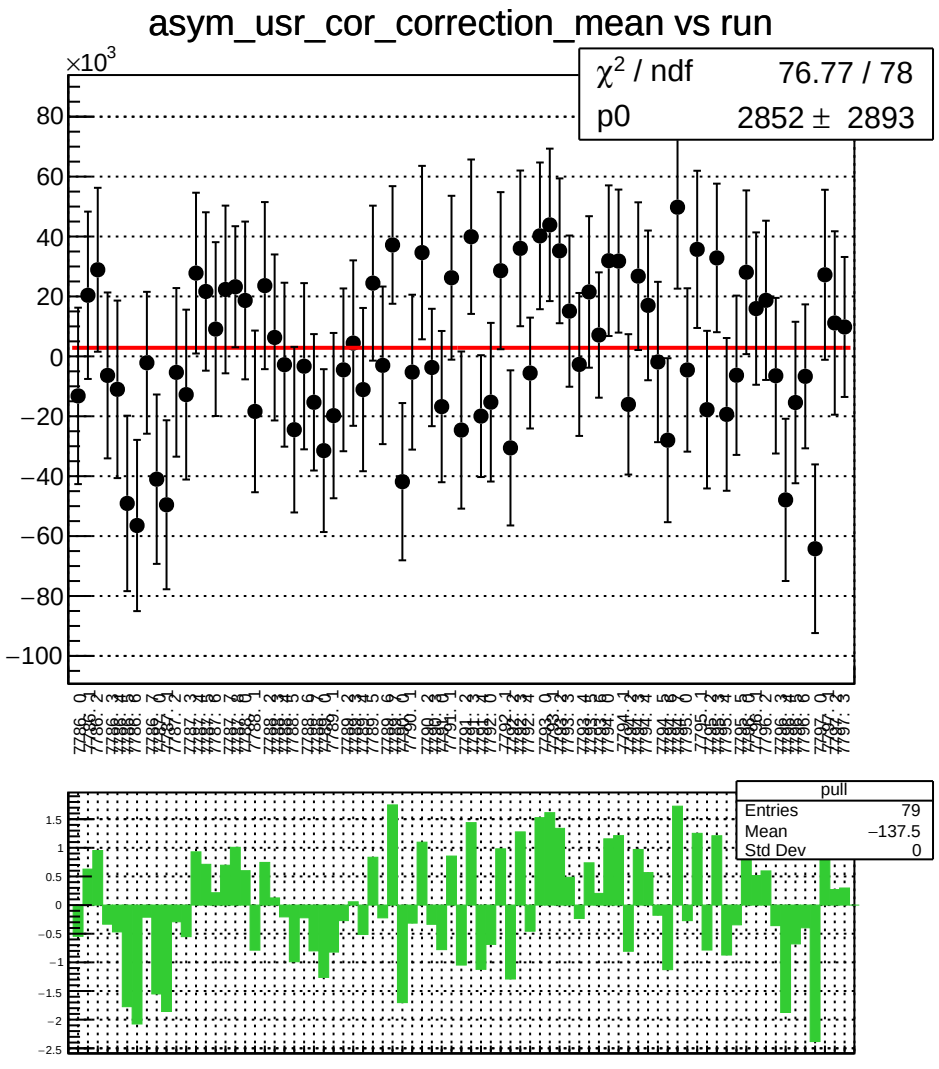

pull1D
Entries 79
Mean −0.01797
Std Dev 0.9857

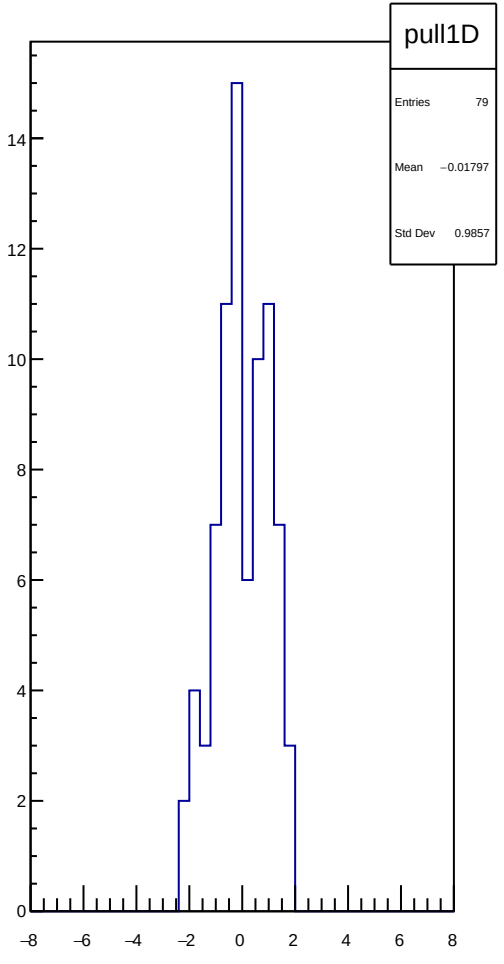

asym_usr_reg_correction_rms vs run
χ² / ndf 4421 / 78
p0 2530 ± 2.046
2900
2800
2700
2600
2500
2400
2300
2200

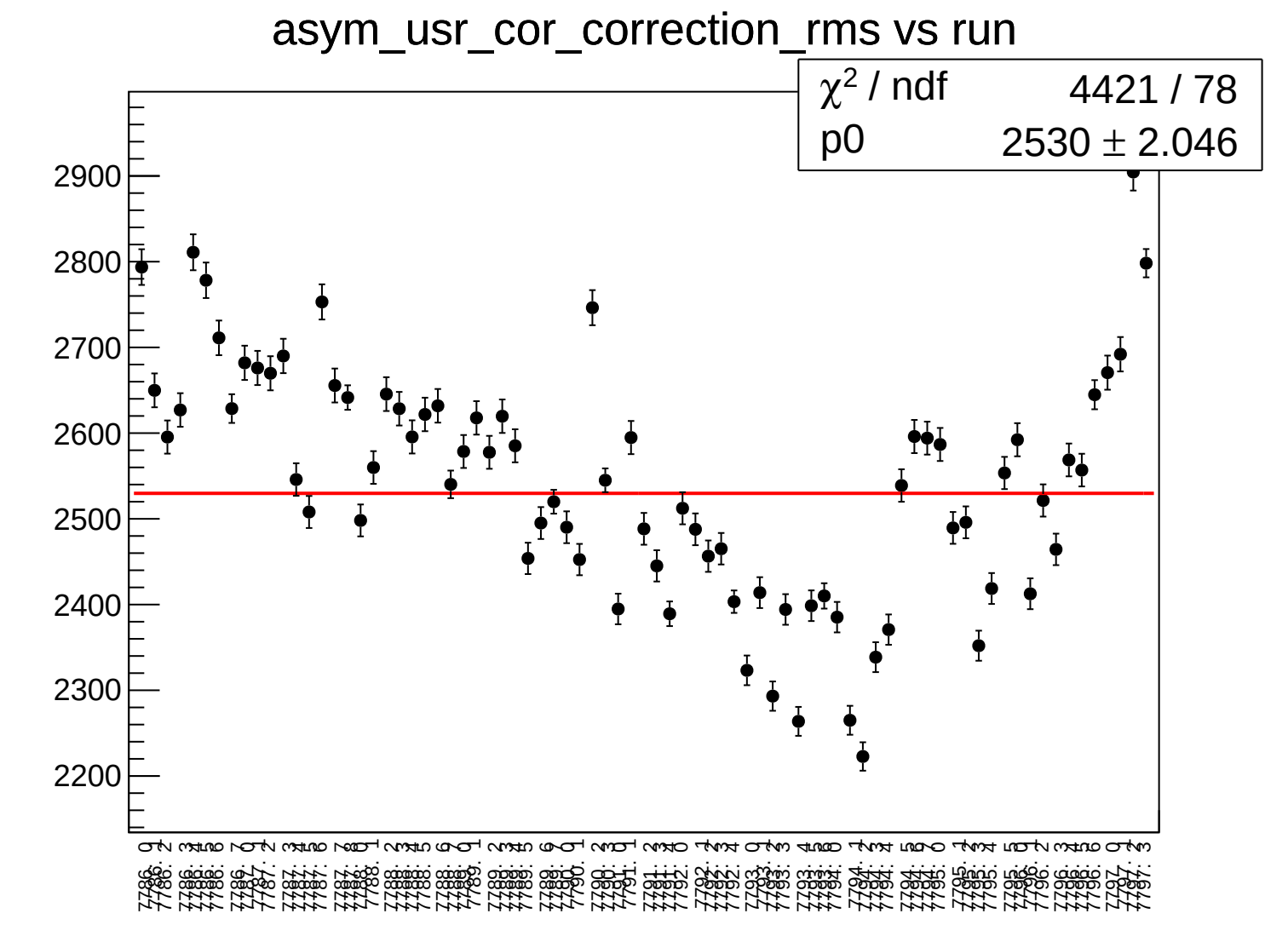

cor_asym_usr_mean vs run
χ² / ndf 97.63 / 78
p0 −2662 ± 1231
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −319.6
Std Dev 0
3
2
1
0
−1
−2

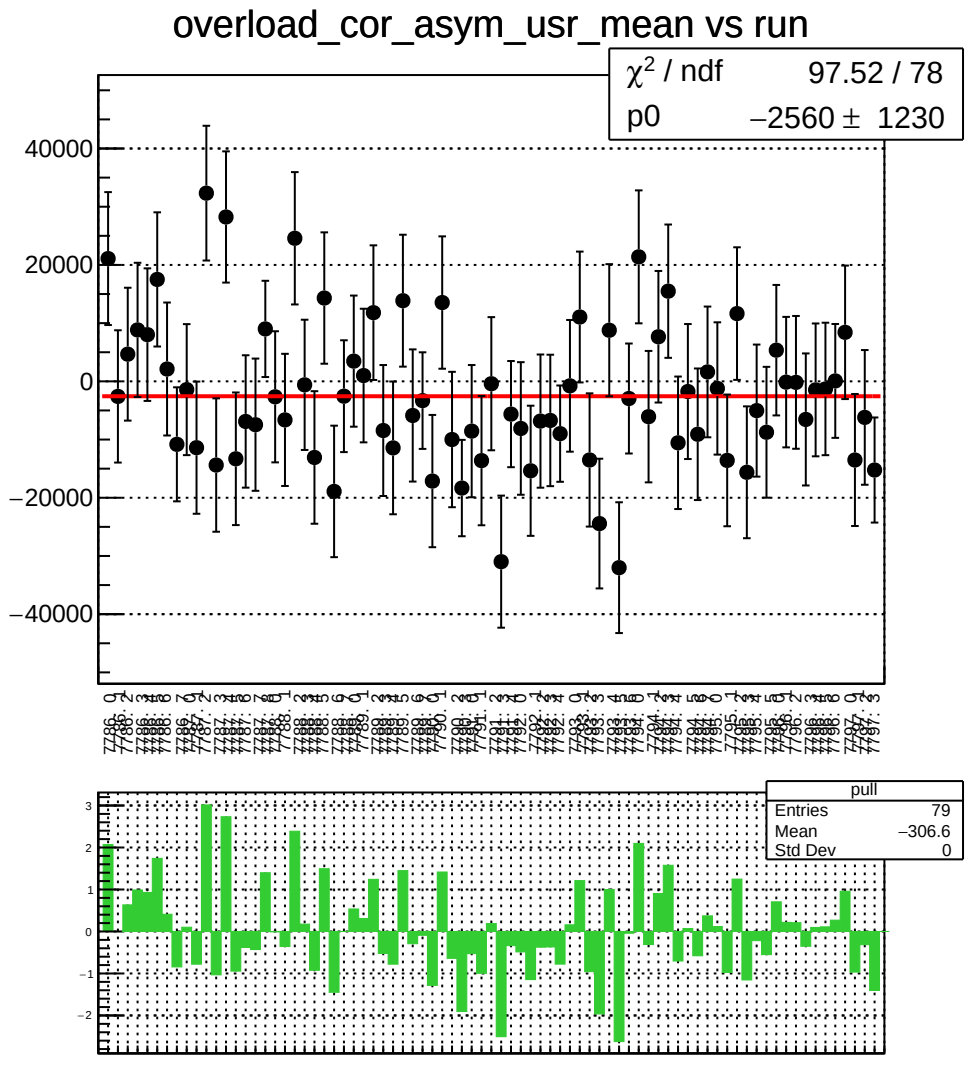

pull1D
Entries 79
Mean 0.01571
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

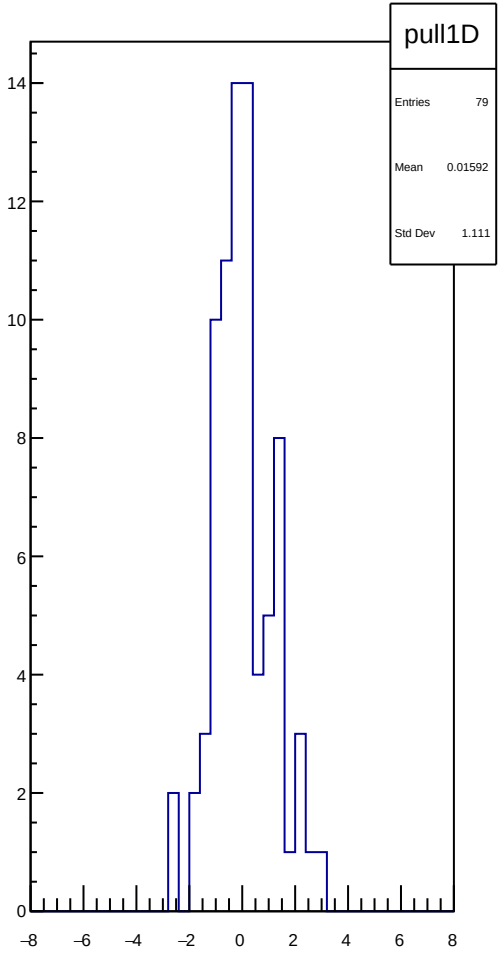

cor_asym_usr_rms vs run
χ^2 / ndf 115.9 / 78
p0 1078 ± 0.8707
1110
1100
1090
1080
1070
1060
1050

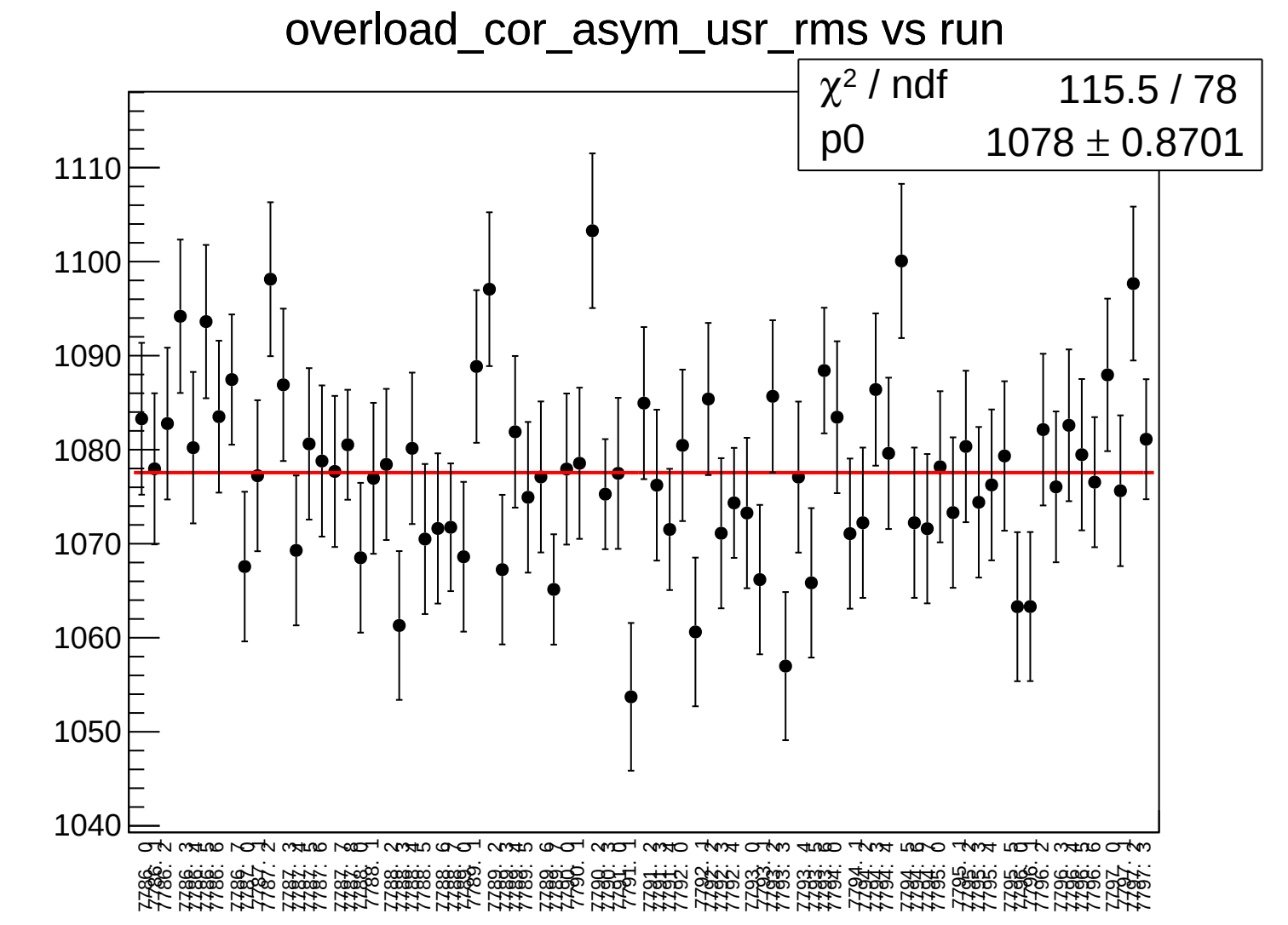

asym_usr_cor_correction_mean vs run
χ² / ndf 76.77 / 78
p0 2852 ± 2893
×10³
pull
Entries 79
Mean −137.5
Std Dev 0

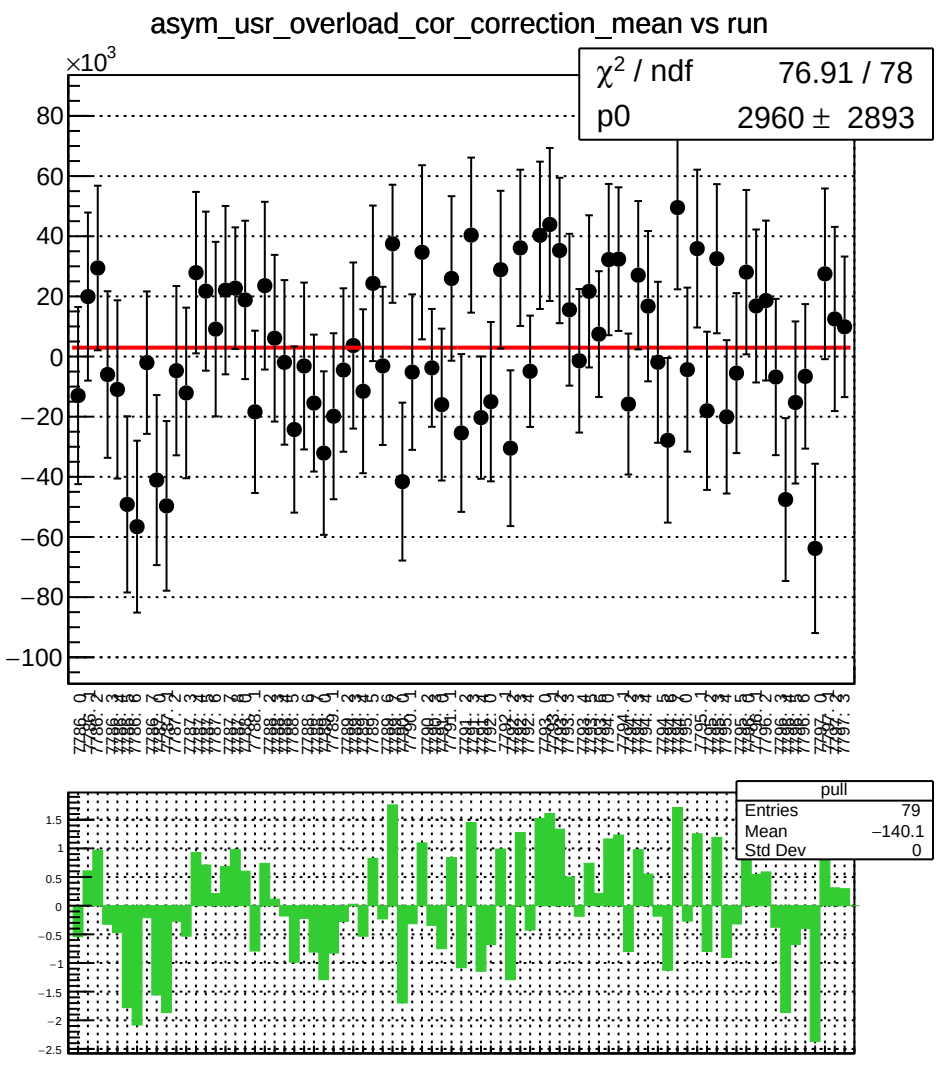

pull1D
Entries 79
Mean −0.01797
Std Dev 0.9857

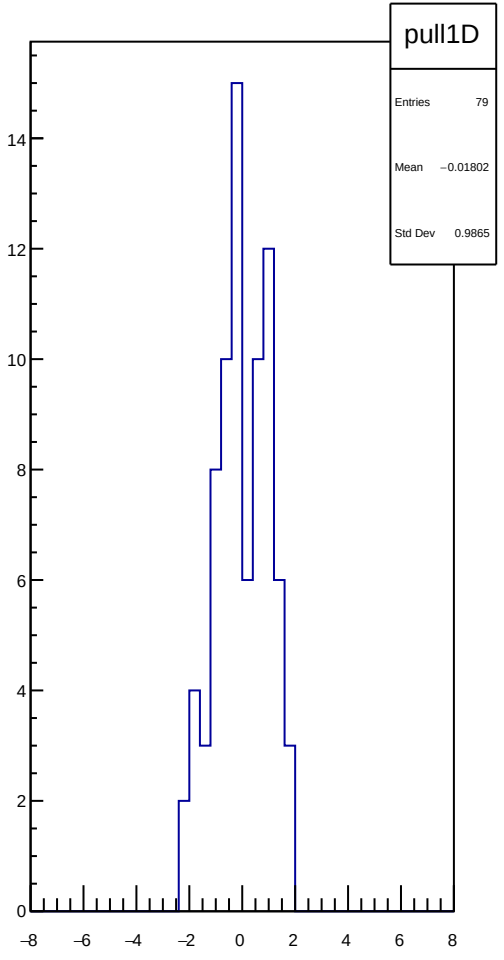

asym_usr_cor_correction_rms vs run
χ^2 / ndf 4421 / 78
p0 2530 ± 2.046
2900
2800
2700
2600
2500
2400
2300
2200

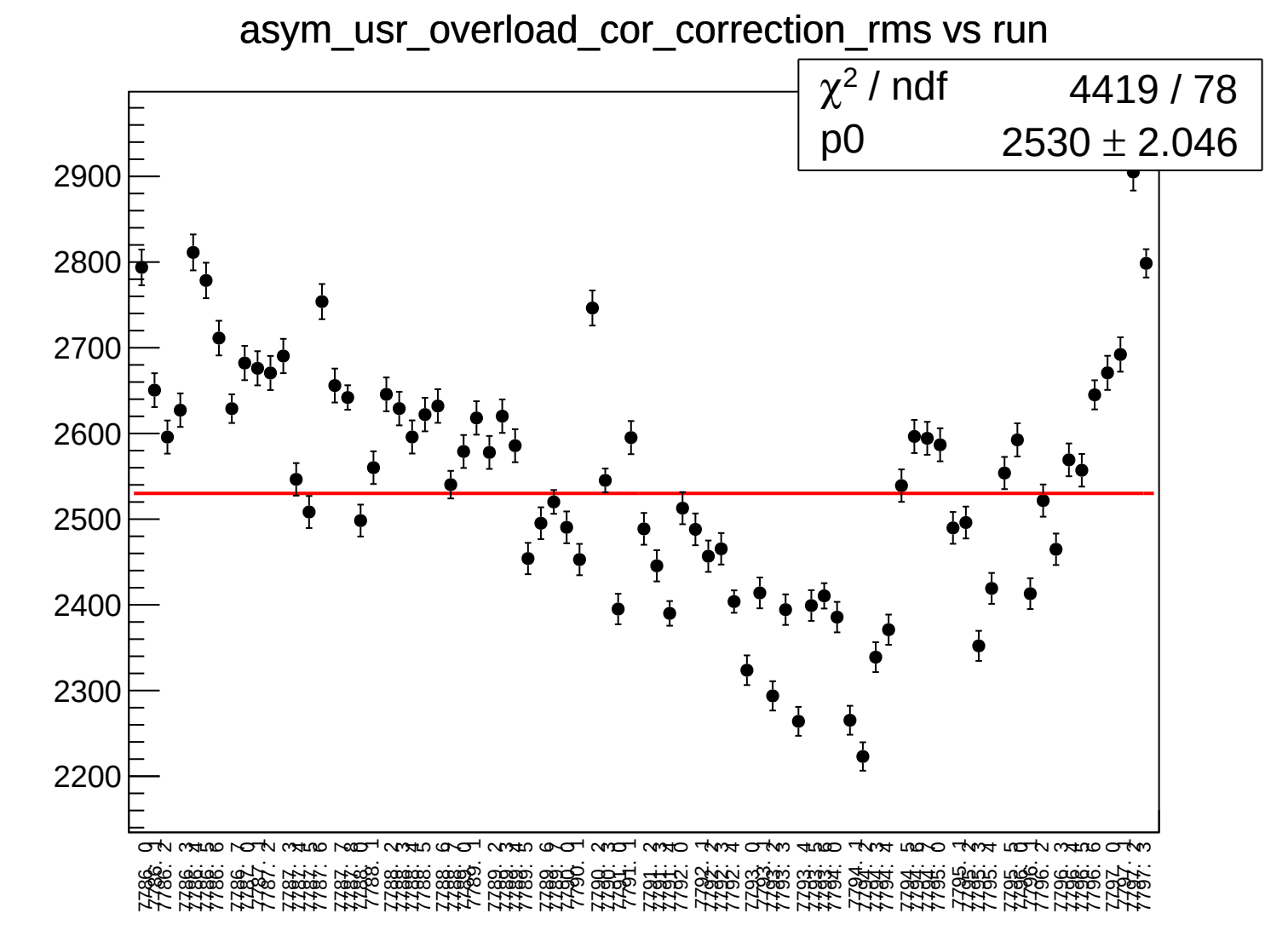

overload_cor_asym_usr_mean vs run
χ² / ndf 97.52 / 78
p0 −2560 ± 1230
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −306.6
Std Dev 0
3
2
1
0
−1
−2

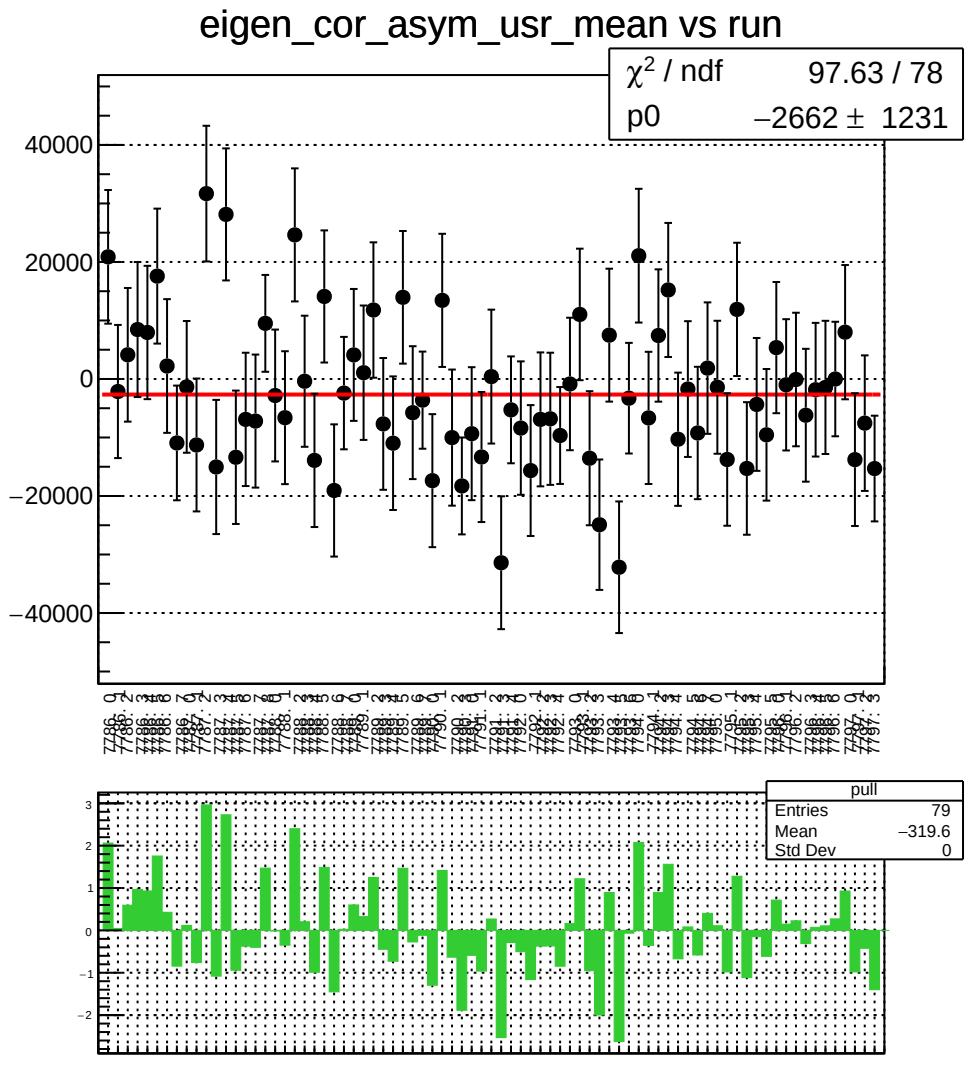

pull1D
Entries 79
Mean 0.01592
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

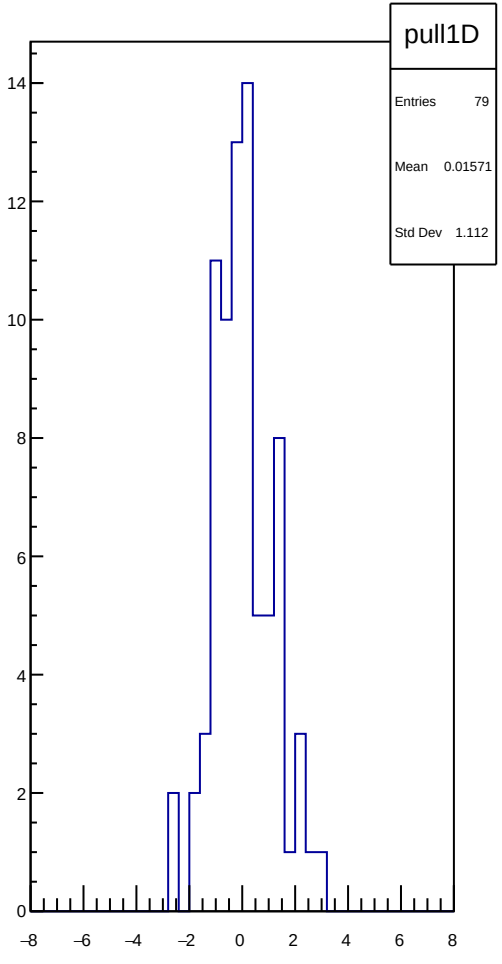

overload_cor_asym_usr_rms vs run
χ² / ndf 115.5 / 78
p0 1078 ± 0.8701
1110
1100
1090
1080
1070
1060
1050
1040

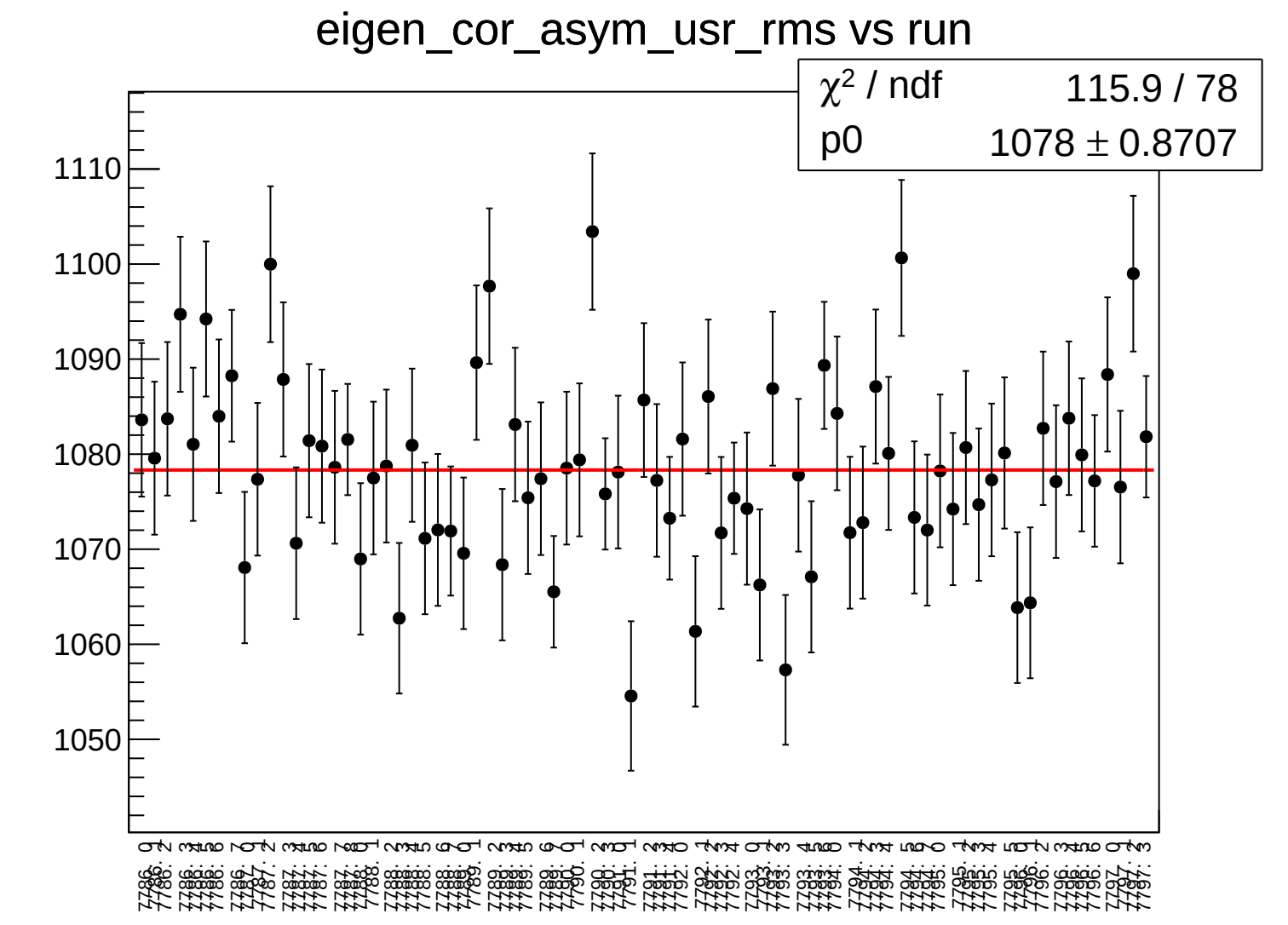

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 76.91 / 78
p0 2960 ± 2893
×10³
pull
Entries 79
Mean −140.1
Std Dev 0

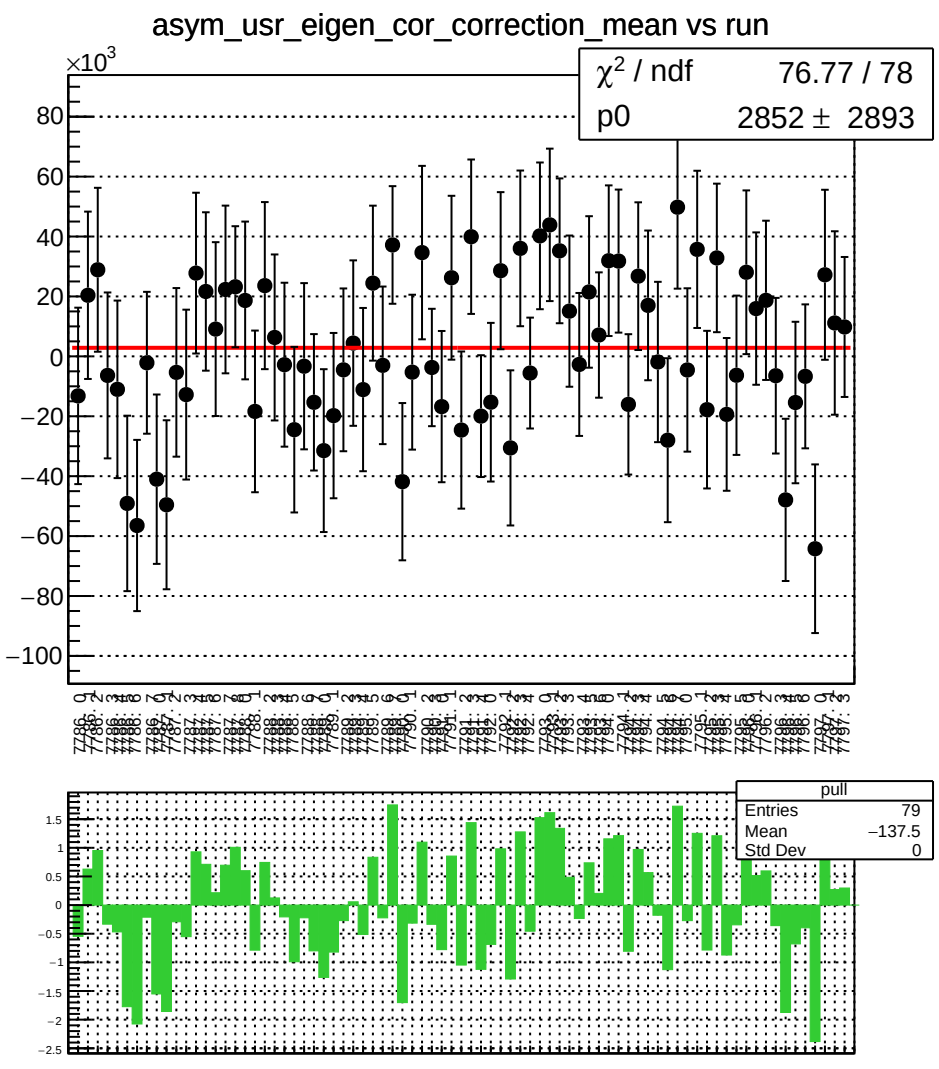

pull1D
Entries 79
Mean −0.01802
Std Dev 0.9865

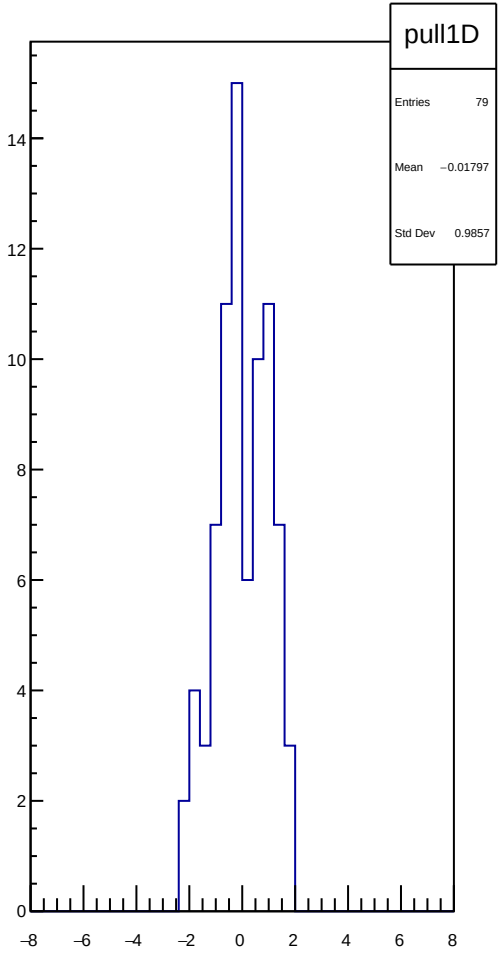

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 4419 / 78
p0 2530 ± 2.046
2900
2800
2700
2600
2500
2400
2300
2200

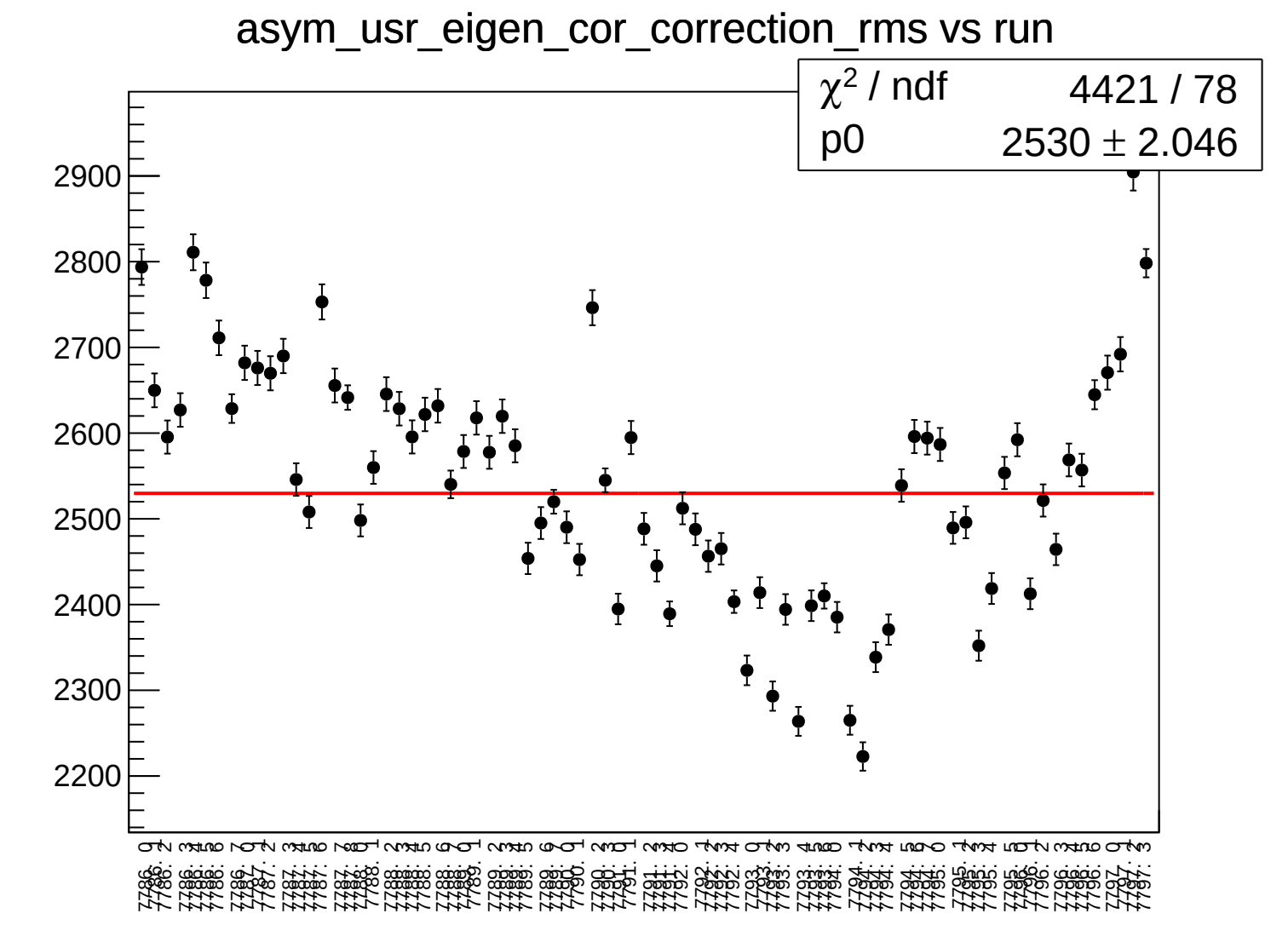

eigen_cor_asym_usr_mean vs run
χ² / ndf 97.63 / 78
p0 −2662 ± 1231
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −319.6
Std Dev 0
3
2
1
0
−1
−2

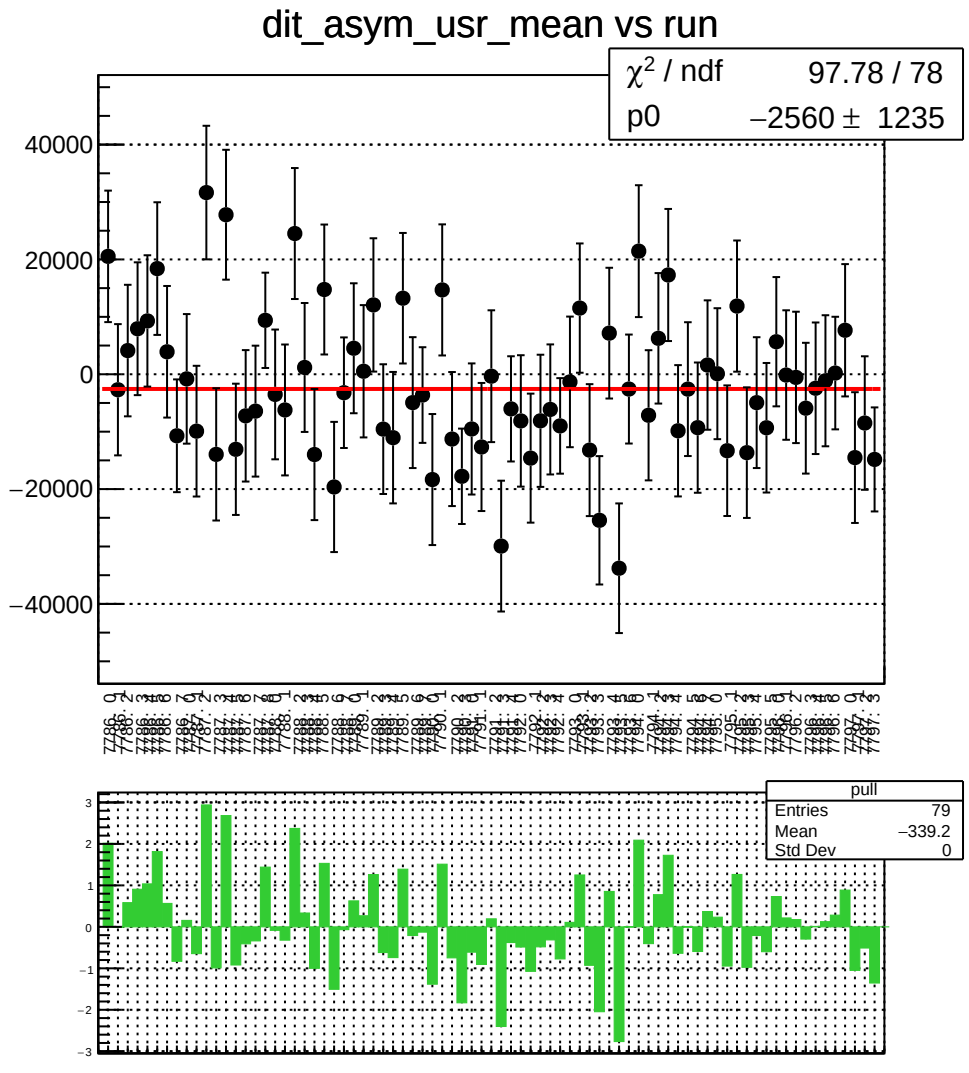

pull1D
Entries 79
Mean 0.01571
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

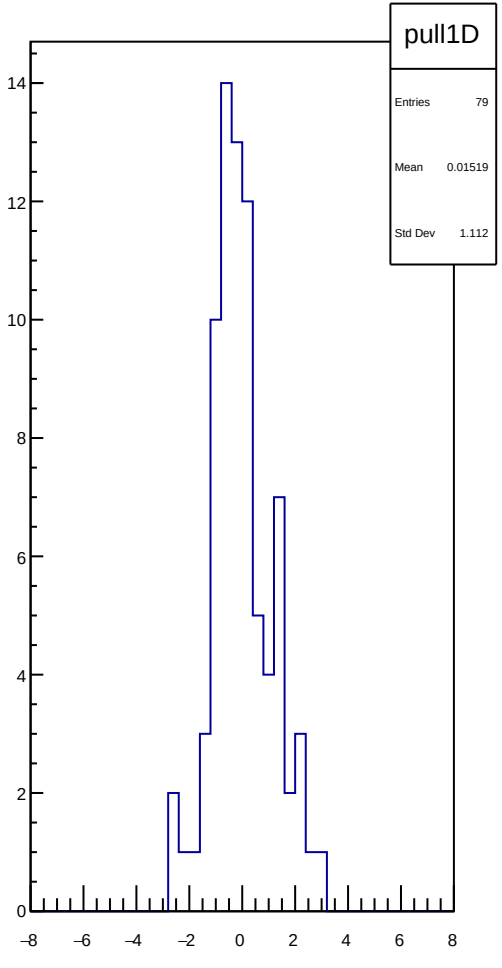

eigen_cor_asym_usr_rms vs run
χ^2 / ndf 115.9 / 78
p0 1078 ± 0.8707
1110
1100
1090
1080
1070
1060
1050

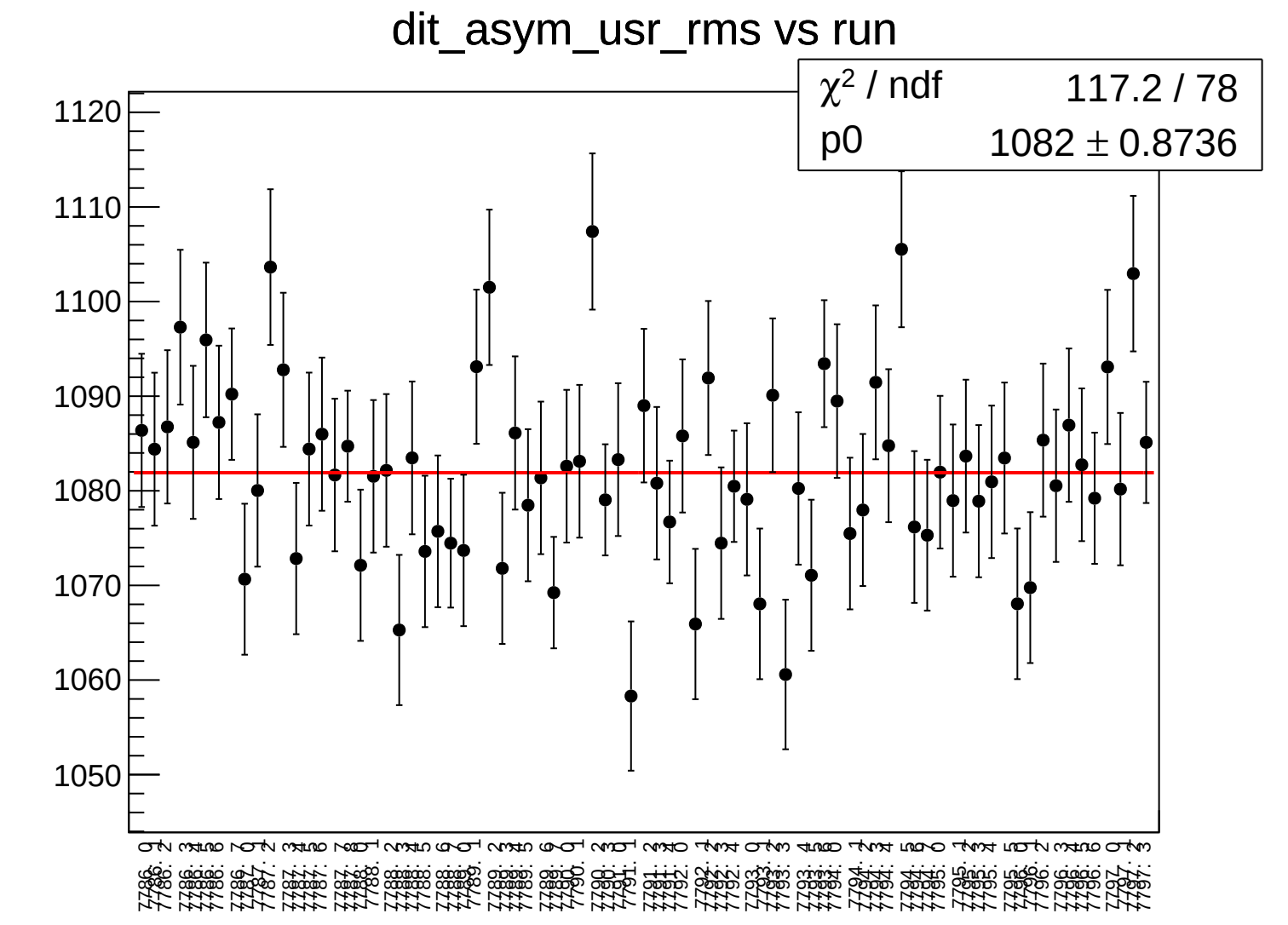

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.77 / 78
p0 2852 ± 2893
pull
Entries 79
Mean −137.5
Std Dev 0

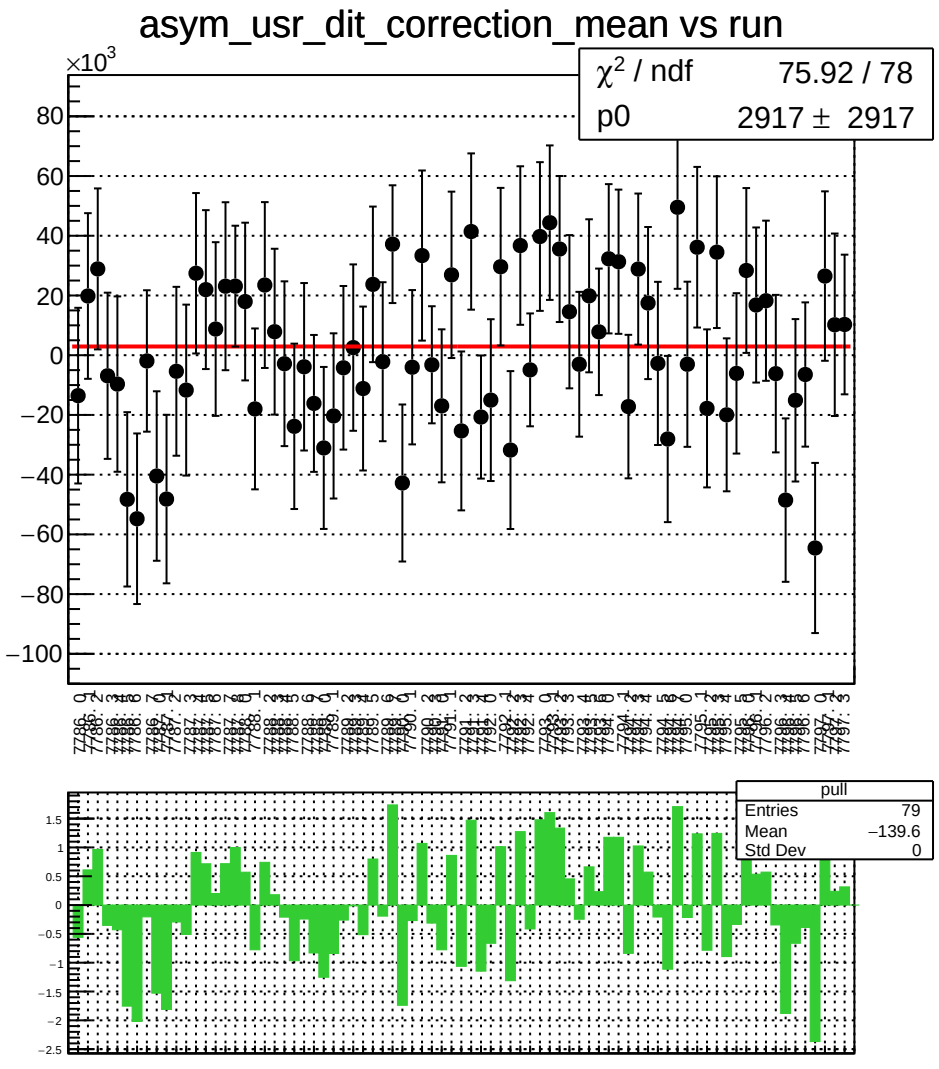

pull1D
Entries 79
Mean −0.01797
Std Dev 0.9857

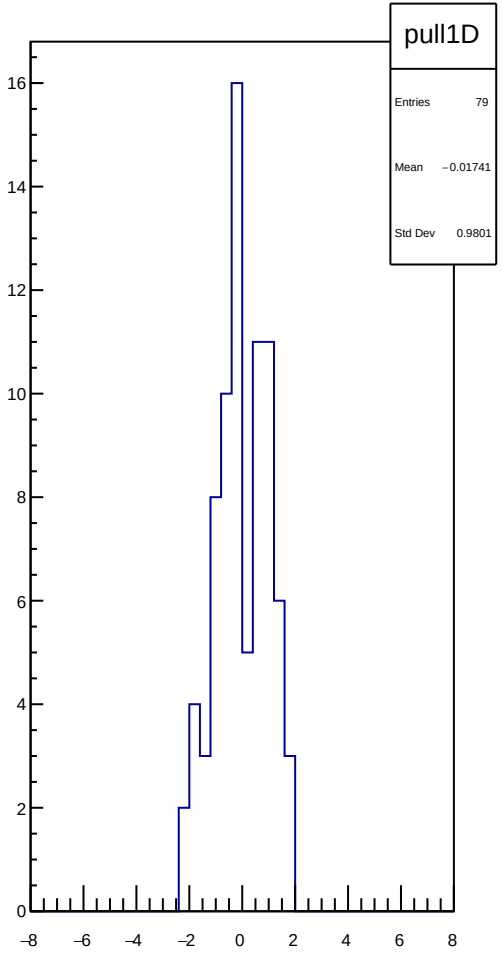

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 4421 / 78
p0 2530 ± 2.046
2900
2800
2700
2600
2500
2400
2300
2200

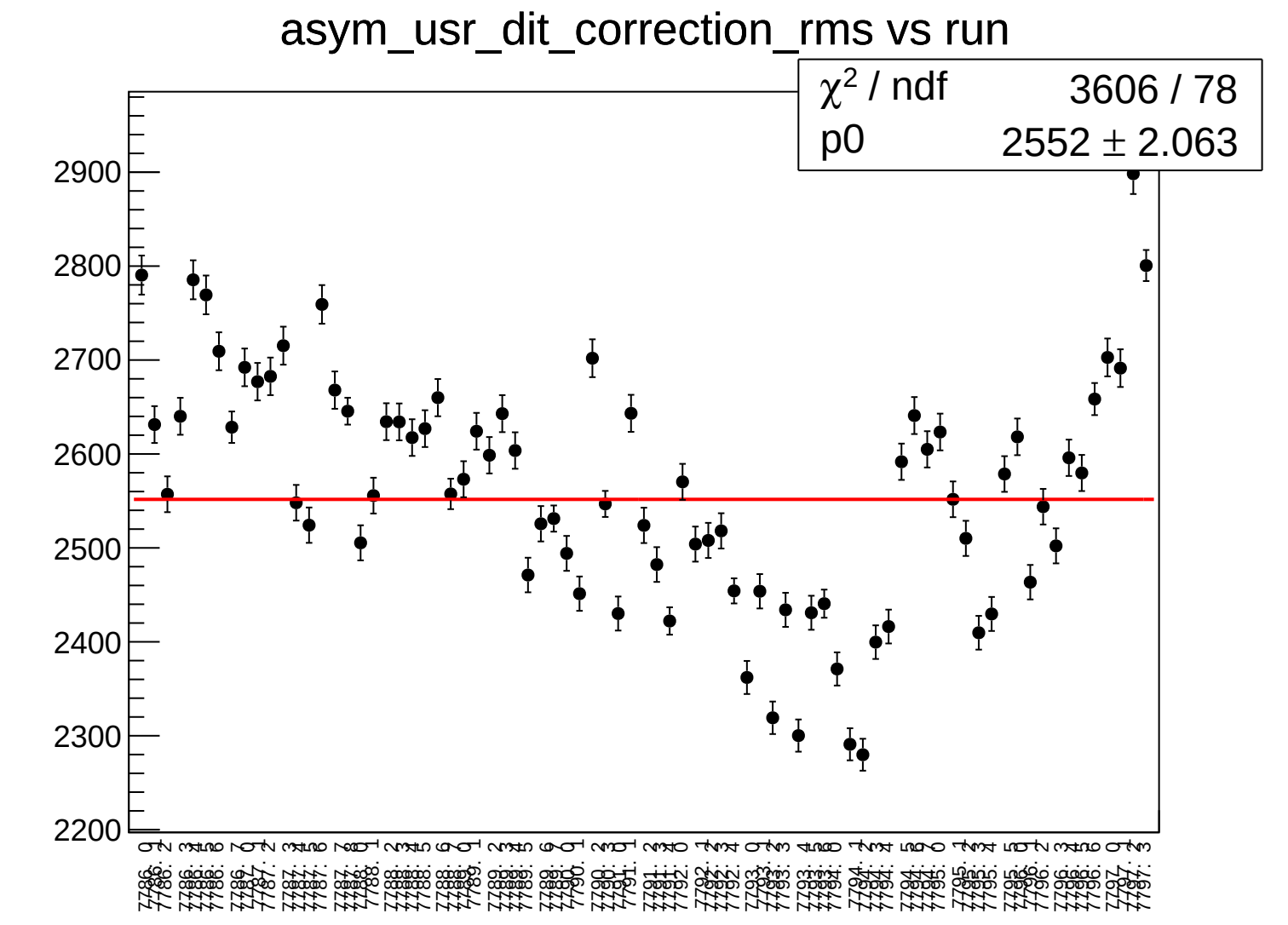

dit_asym_usr_mean vs run
χ² / ndf 97.78 / 78
p0 −2560 ± 1235
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −339.2
Std Dev 0
3
2
1
0
−1
−2
−3

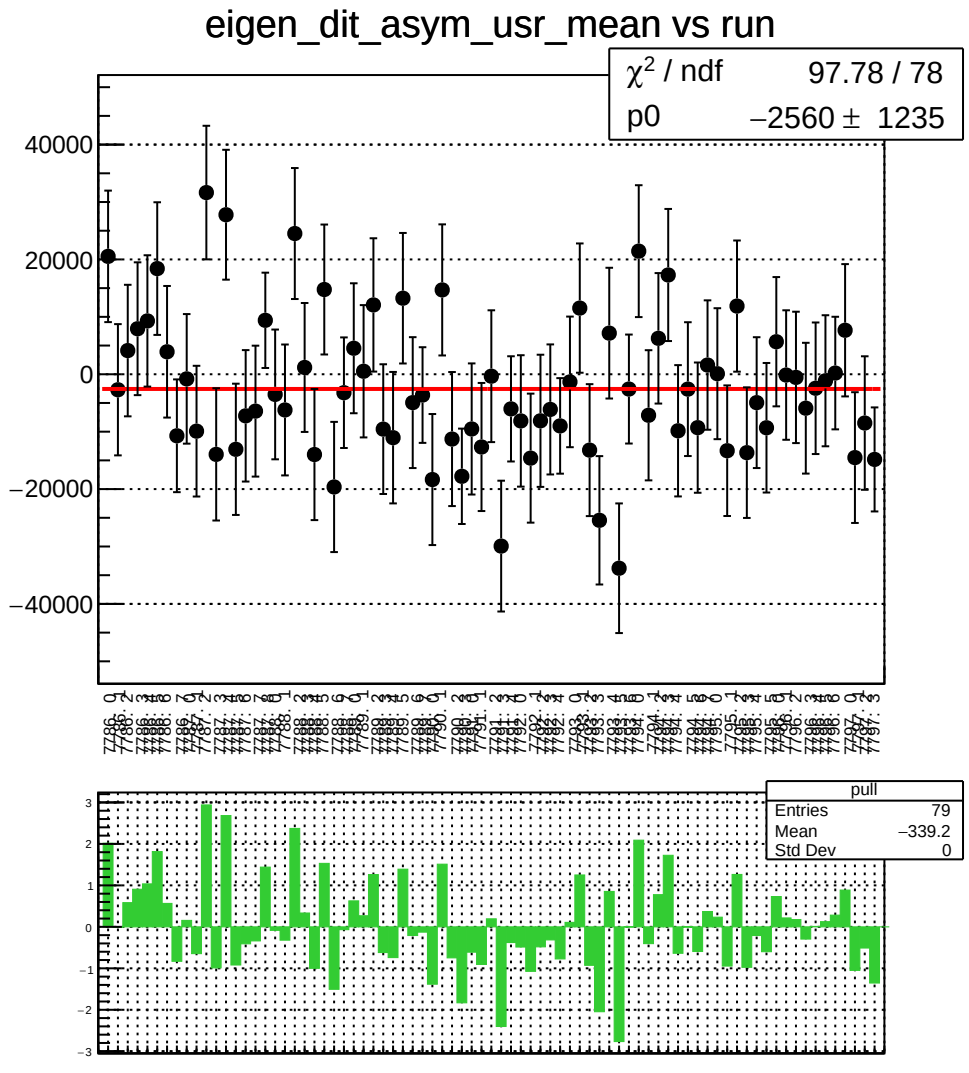

pull1D
Entries 79
Mean 0.01519
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

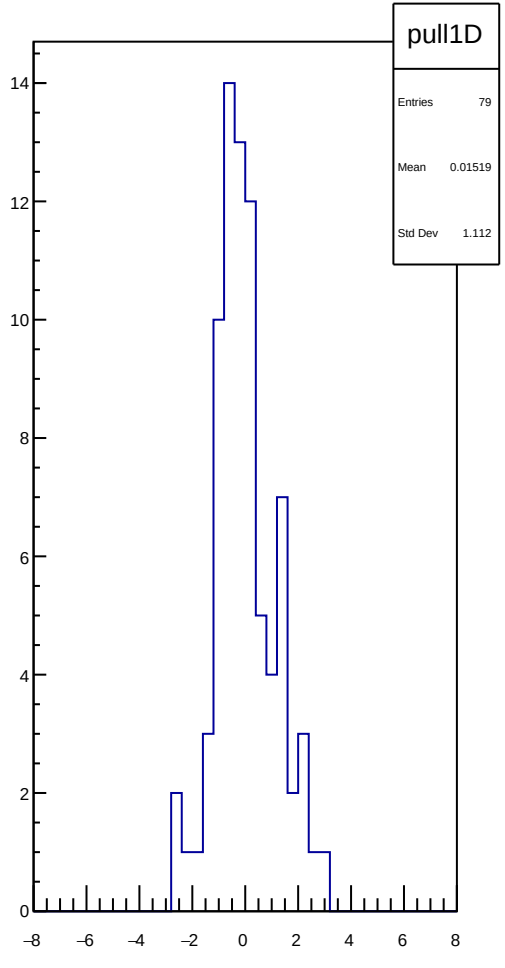

dit_asym_usr_rms vs run
χ² / ndf 117.2 / 78
p0 1082 ± 0.8736
1120
1110
1100
1090
1080
1070
1060
1050

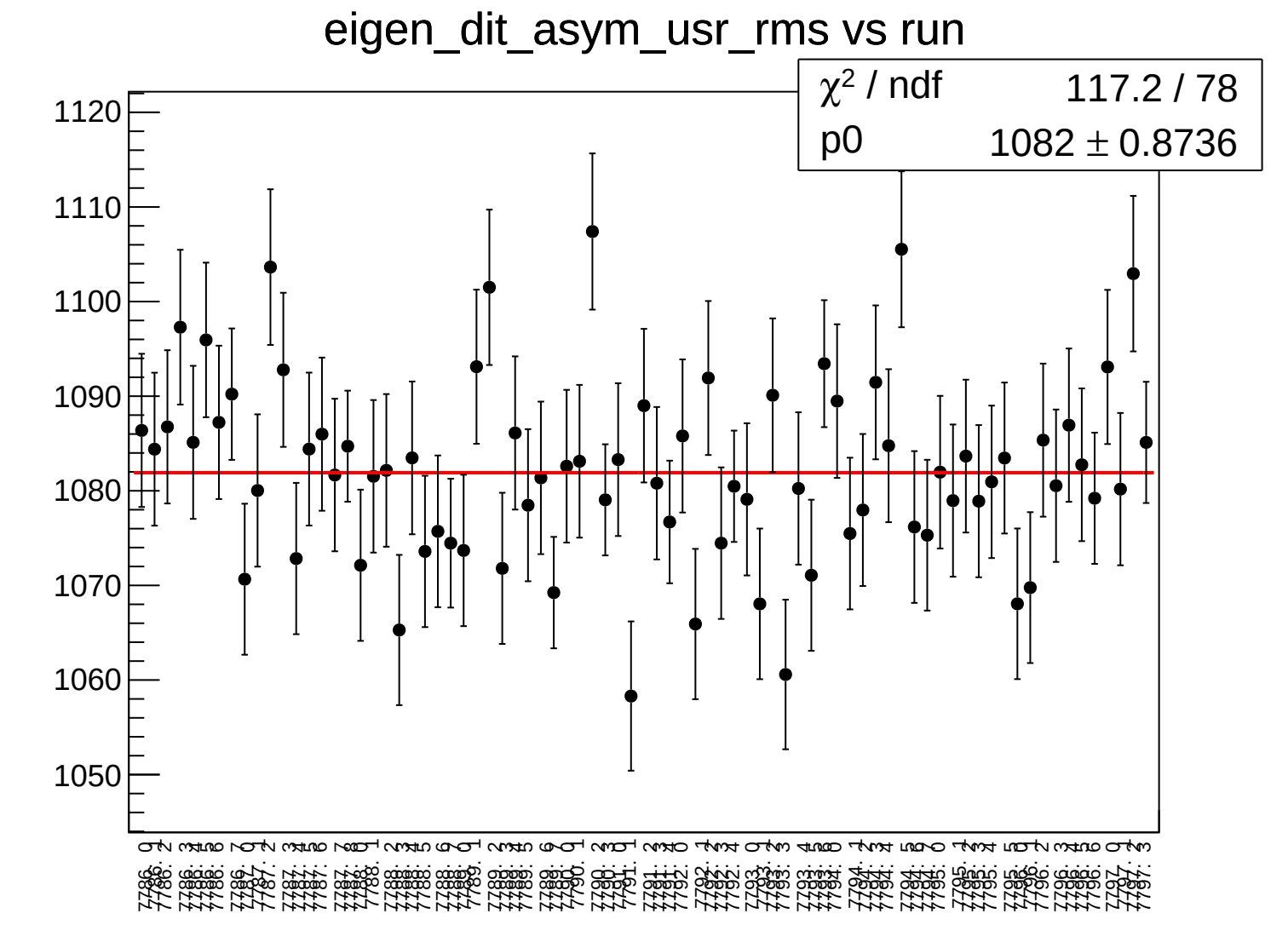

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 75.92 / 78
p0 2917 ± 2917
pull
Entries 79
Mean −139.6
Std Dev 0

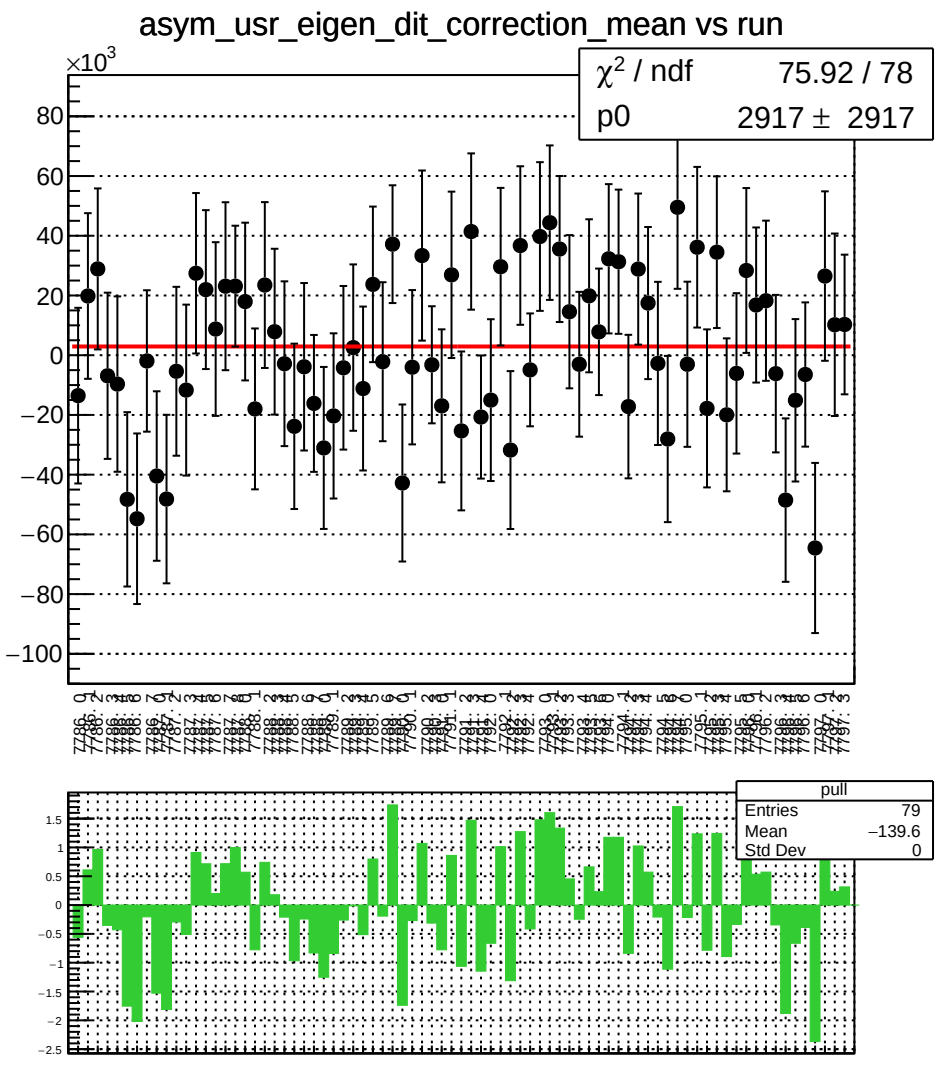

pull1D
Entries 79
Mean −0.01741
Std Dev 0.9801

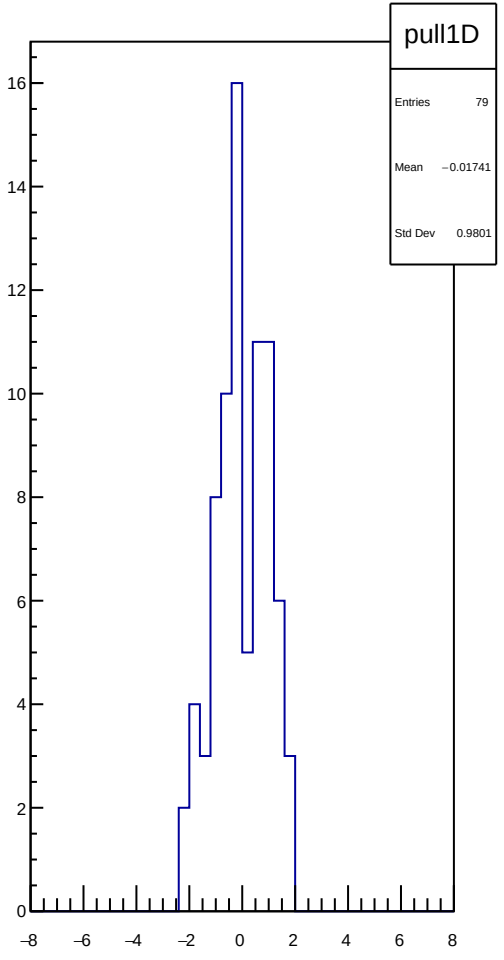

asym_usr_dit_correction_rms vs run
χ^2 / ndf 3606 / 78
p0 2552 ± 2.063
2900
2800
2700
2600
2500
2400
2300
2200

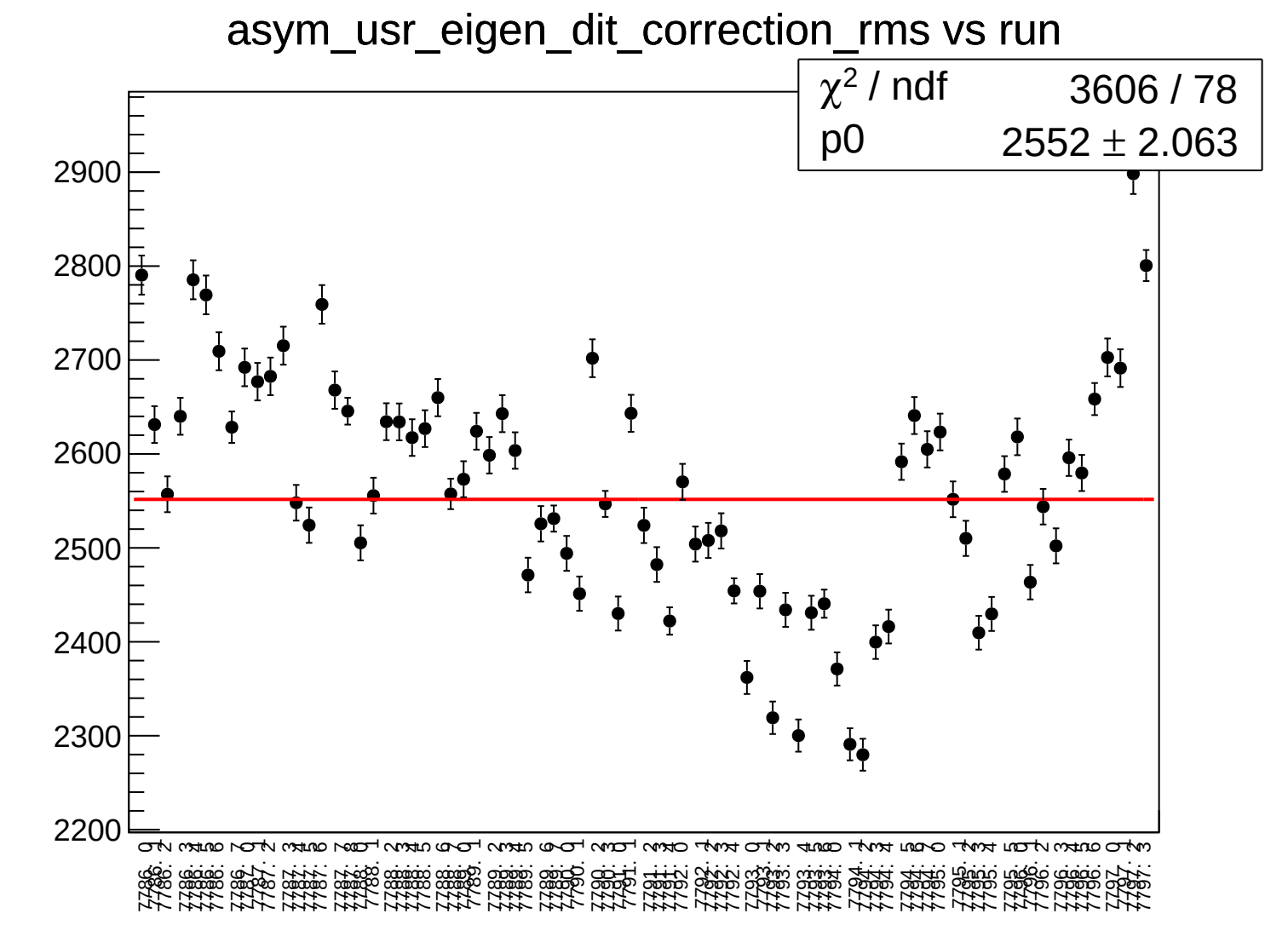

eigen_dit_asym_usr_mean vs run
χ² / ndf 97.78 / 78
p0 −2560 ± 1235
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −339.2
Std Dev 0
3
2
1
0
−1
−2
−3

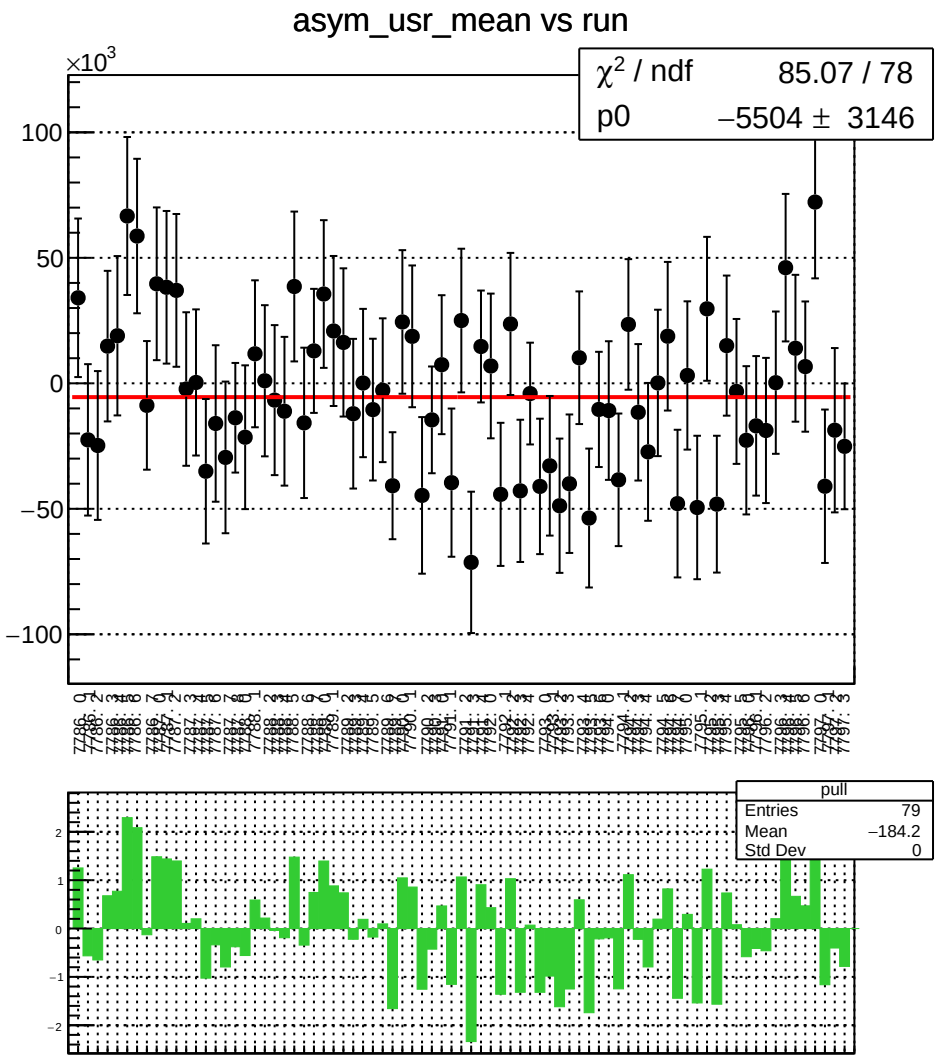

pull1D
Entries 79
Mean 0.01519
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

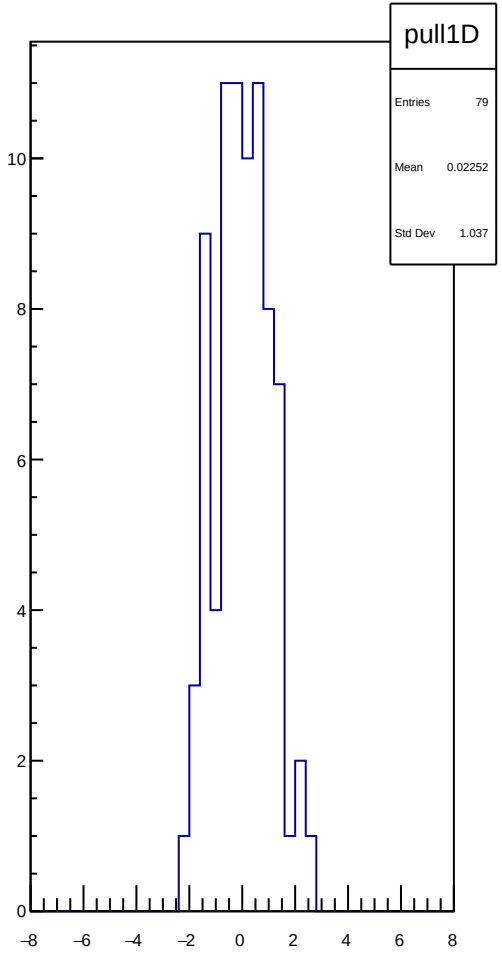

eigen_dit_asym_usr_rms vs run
χ² / ndf 117.2 / 78
p0 1082 ± 0.8736
1120
1110
1100
1090
1080
1070
1060
1050

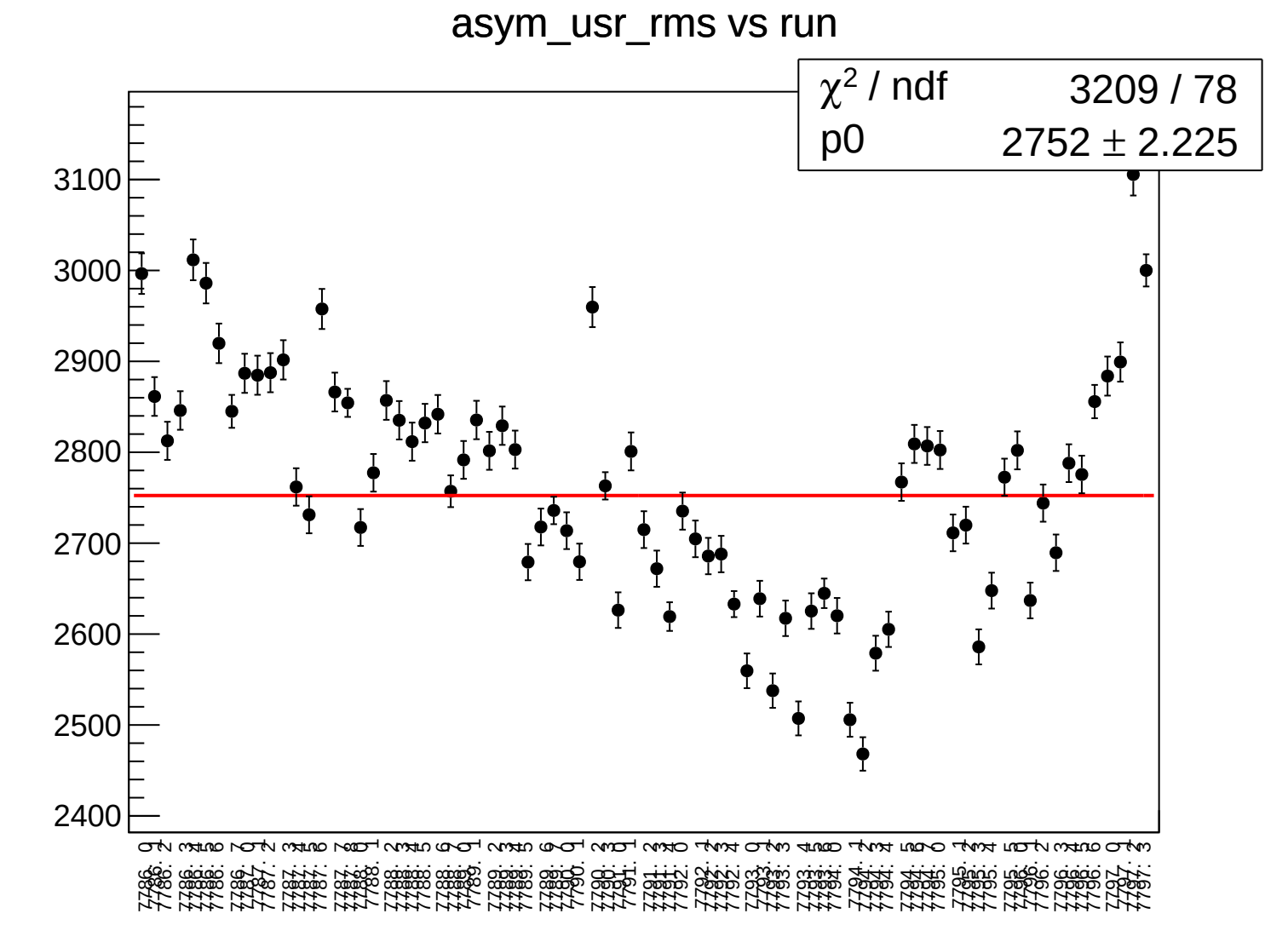

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 75.92 / 78
p0 2917 ± 2917
pull
Entries 79
Mean −139.6
Std Dev 0

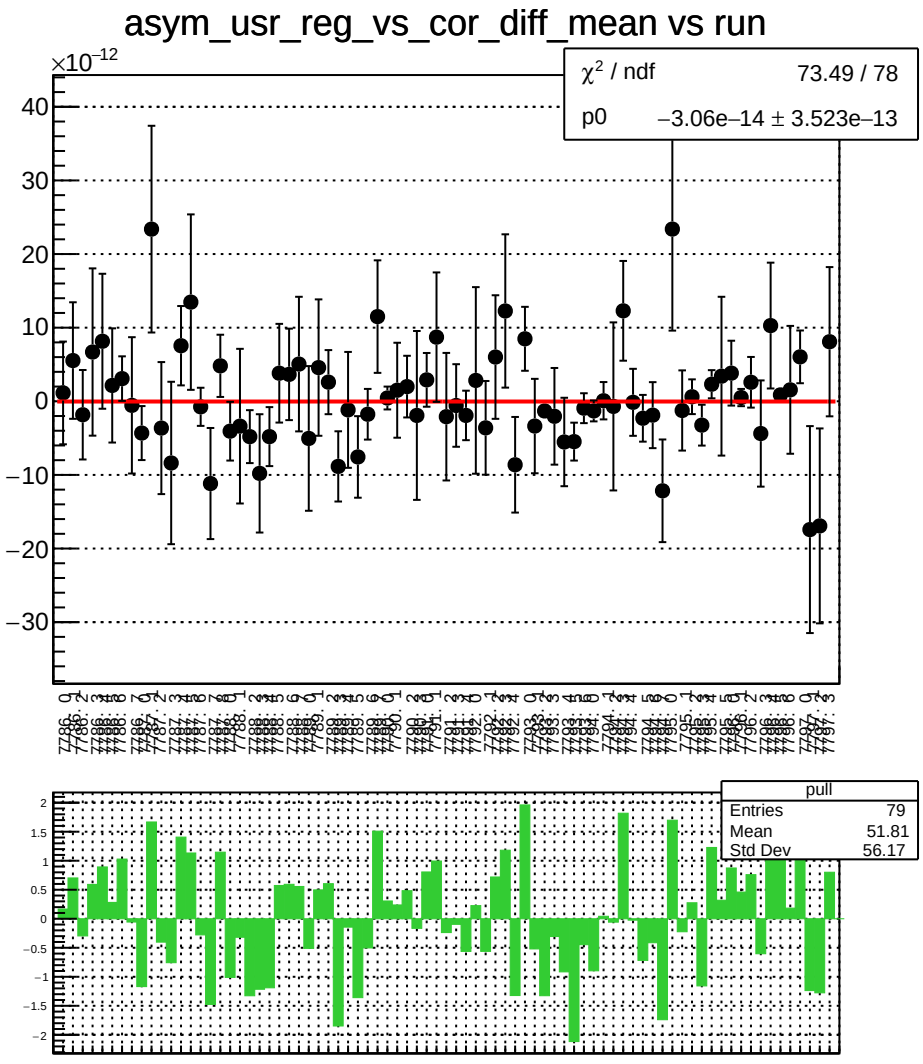

pull1D
Entries 79
Mean −0.01741
Std Dev 0.9801

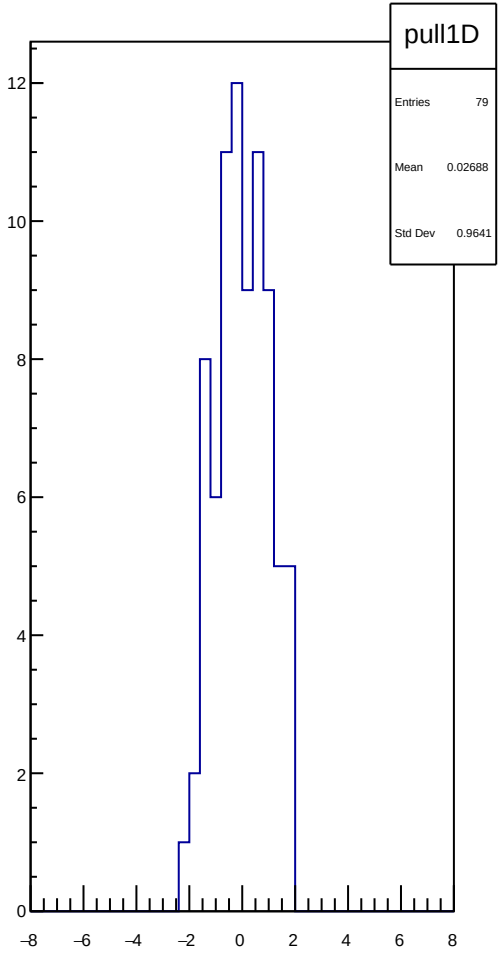

asym_usr_eigen_dit_correction_rms vs run
χ^2 / ndf 3606 / 78
p0 2552 ± 2.063
2900
2800
2700
2600
2500
2400
2300
2200

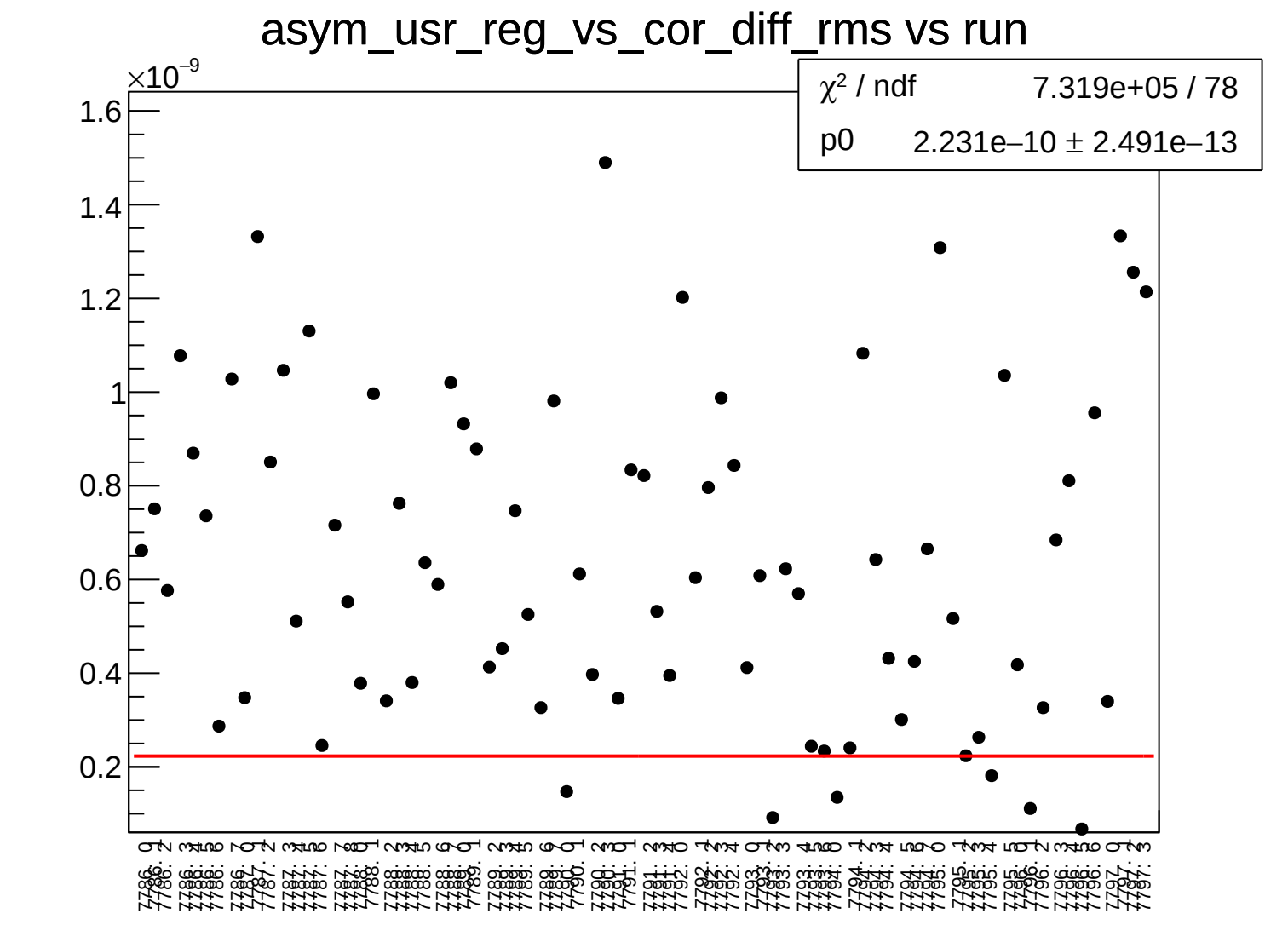

asym_usr_mean vs run
×10^3
χ² / ndf 85.07 / 78
p0 −5504 ± 3146
100
50
0
−50
−100
pull
Entries 79
Mean −184.2
Std Dev 0
2
1
0
−1
−2

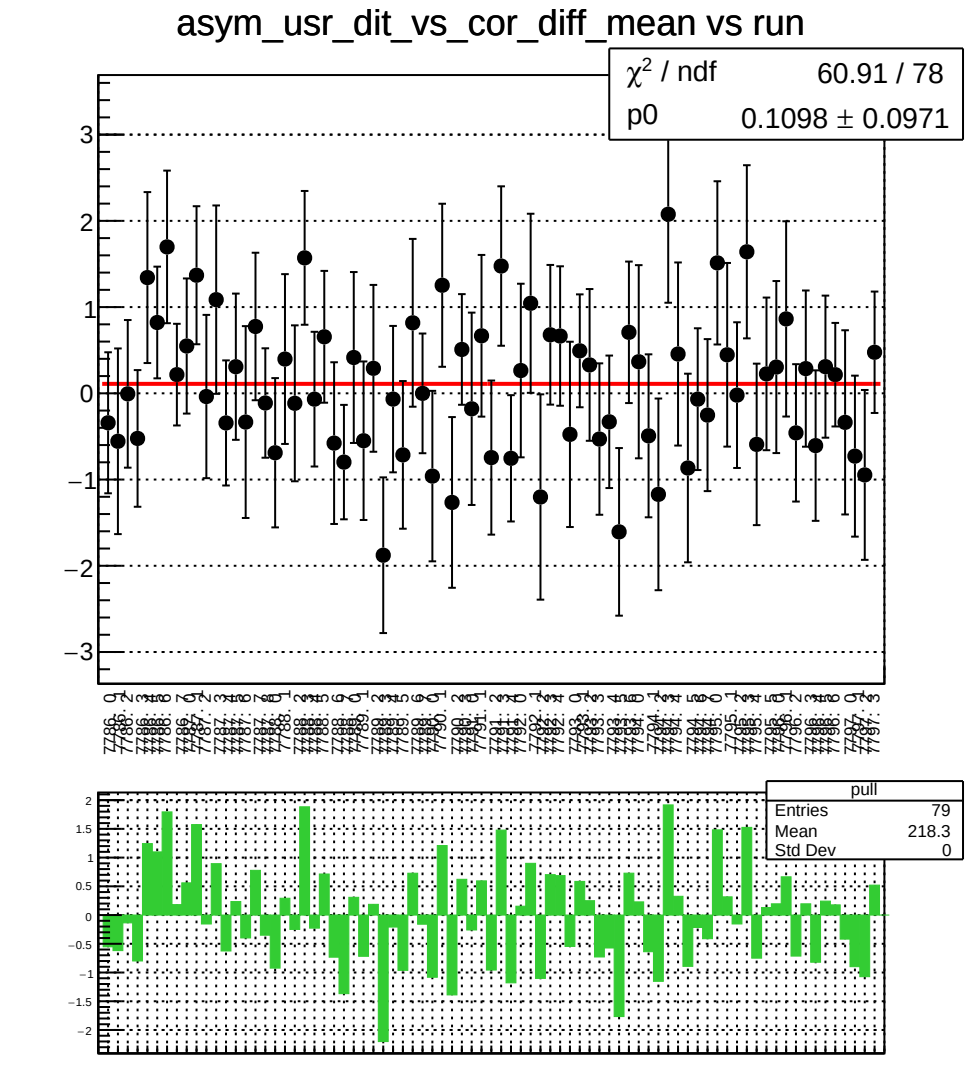

pull1D
Entries 79
Mean 0.02252
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

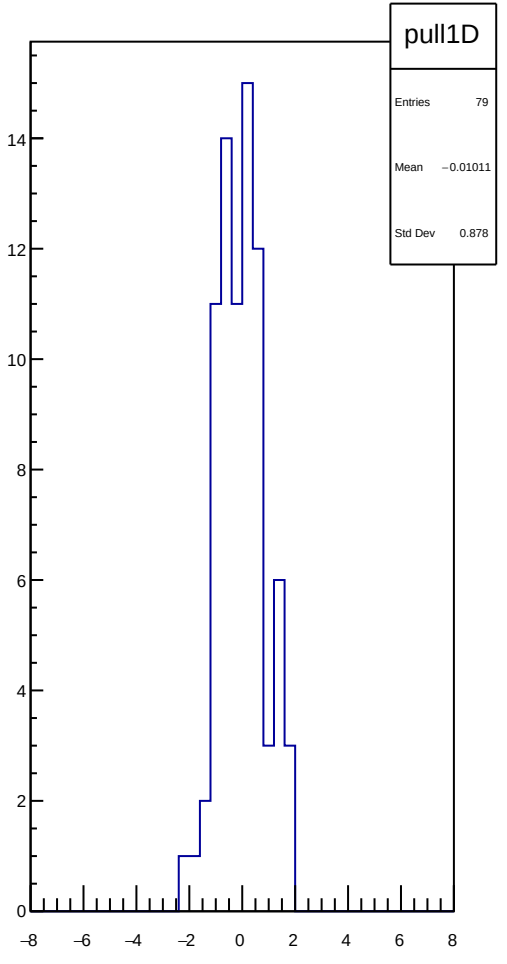

asym_usr_rms vs run
χ^2 / ndf 3209 / 78
p0 2752 ± 2.225
3100
3000
2900
2800
2700
2600
2500
2400

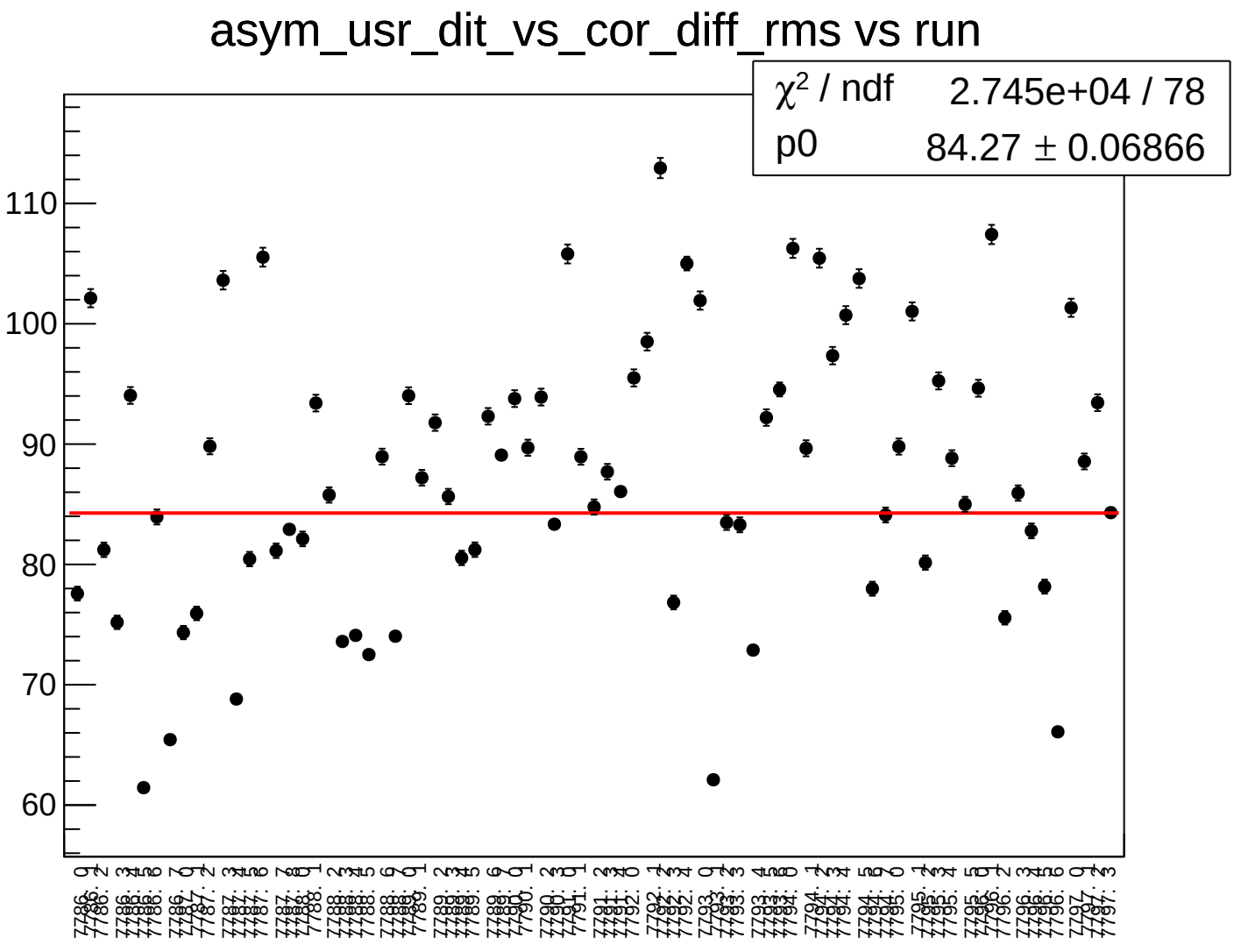

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.49 / 78
p0 −3.06e−14 ± 3.523e−13
pull
Entries 79
Mean 51.81
Std Dev 56.17

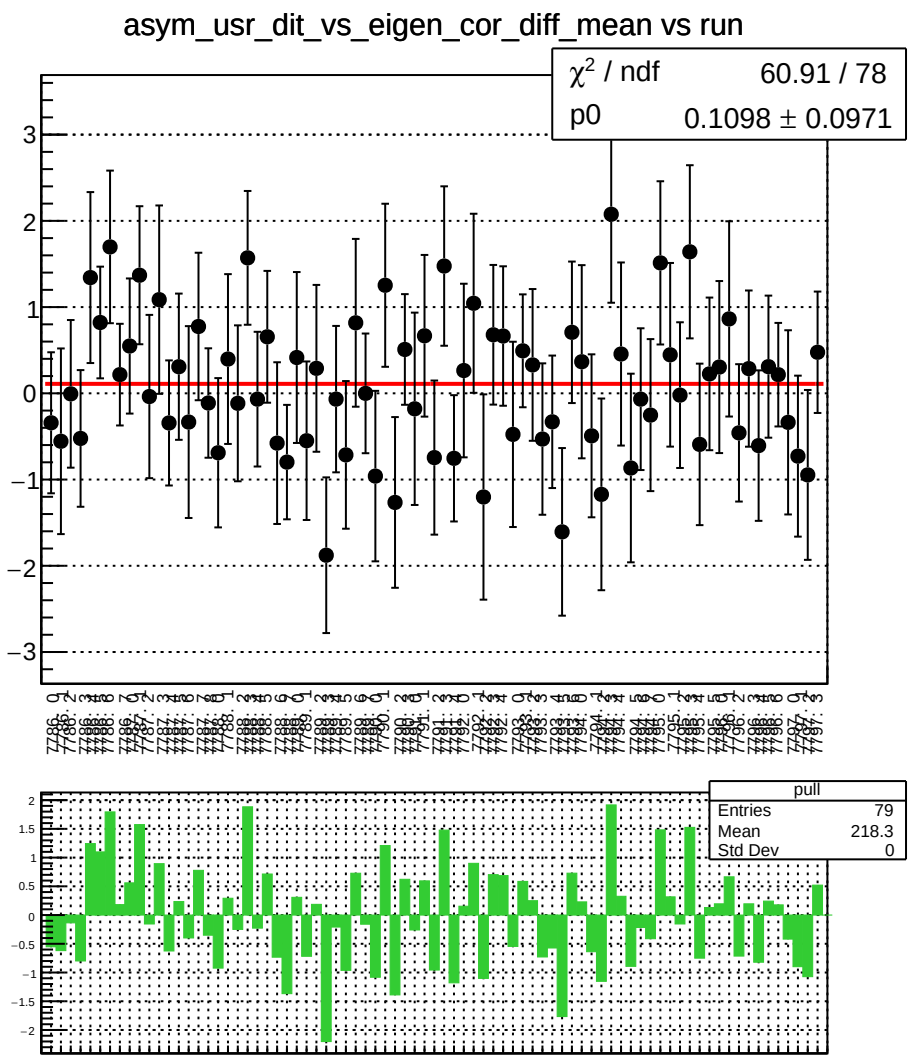

pull1D
Entries 79
Mean 0.02688
Std Dev 0.9641

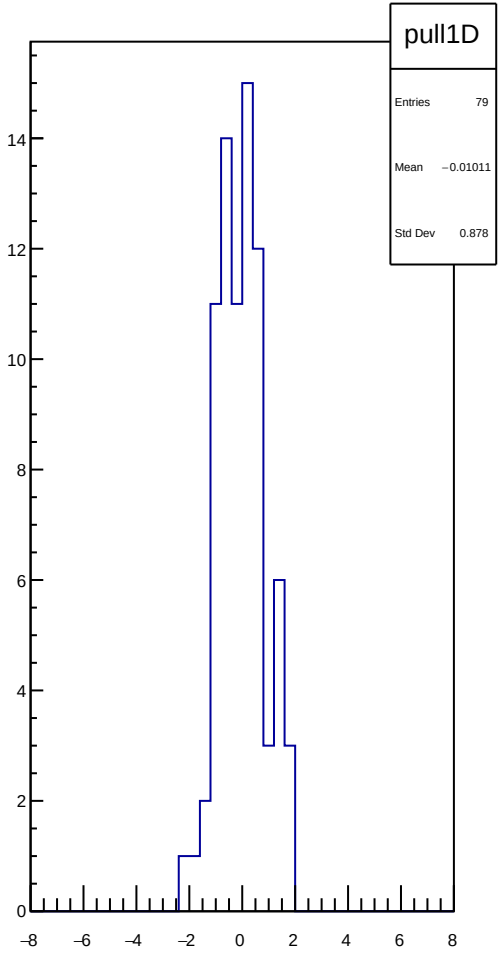

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.319e+05 / 78
p0 2.231e−10 ± 2.491e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

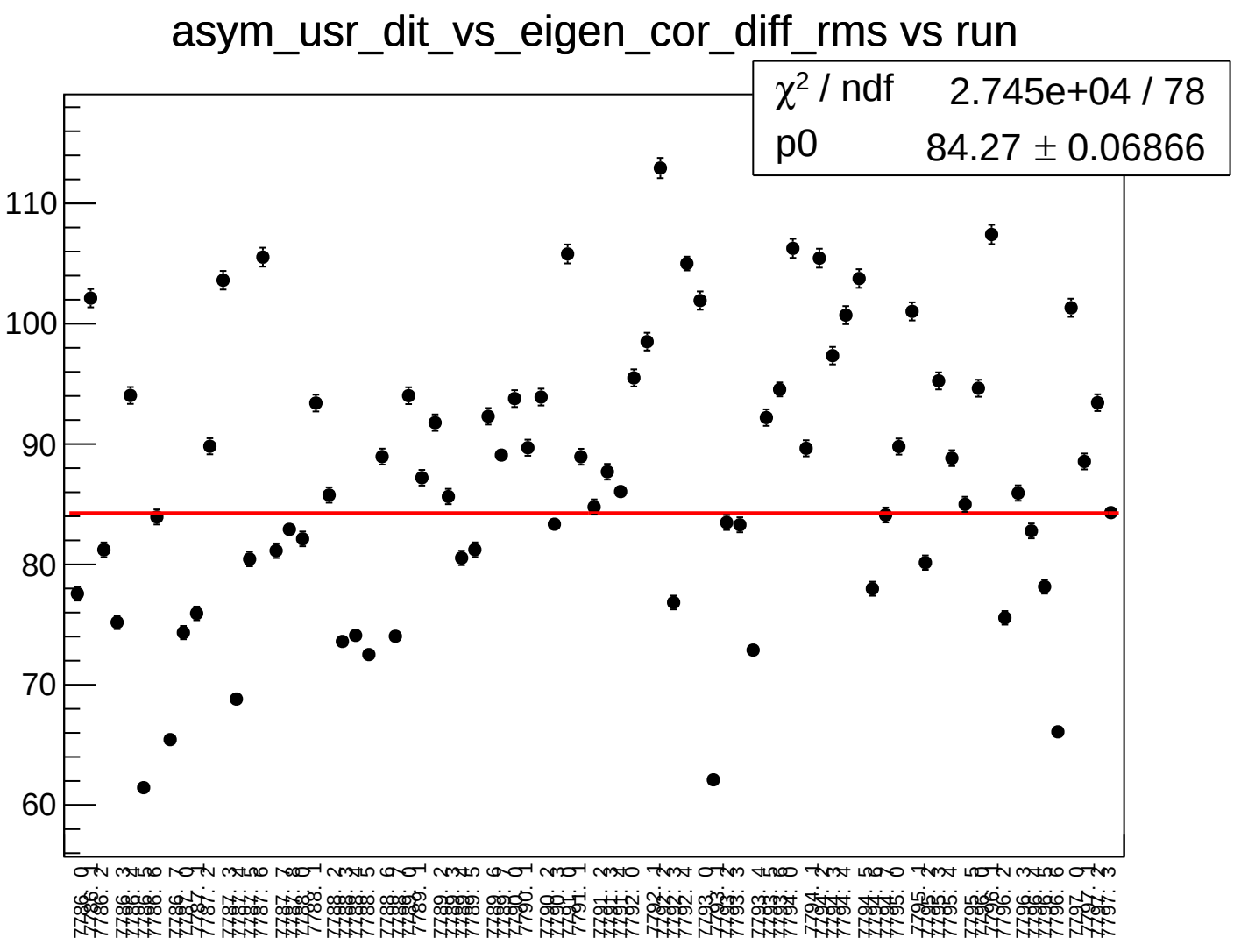

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 60.91 / 78
p0 0.1098 ± 0.0971
pull
Entries 79
Mean 218.3
Std Dev 0

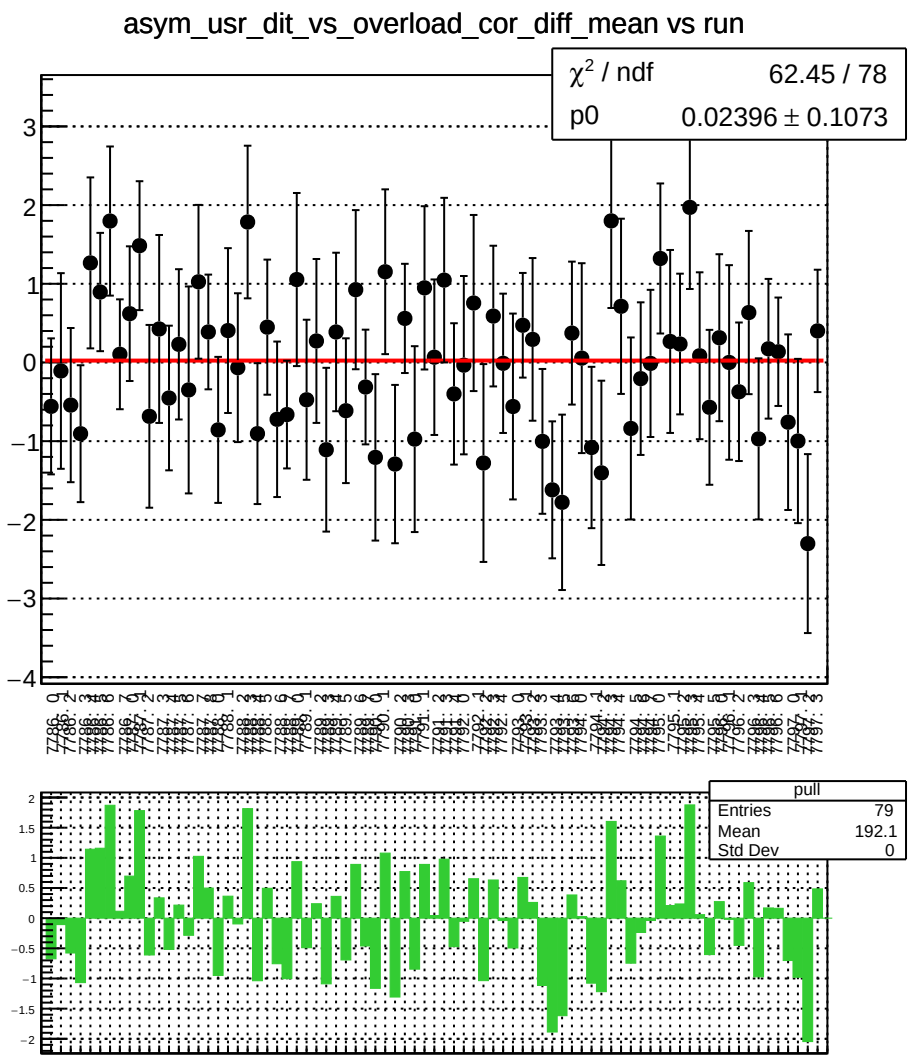

pull1D
Entries 79
Mean −0.01011
Std Dev 0.878

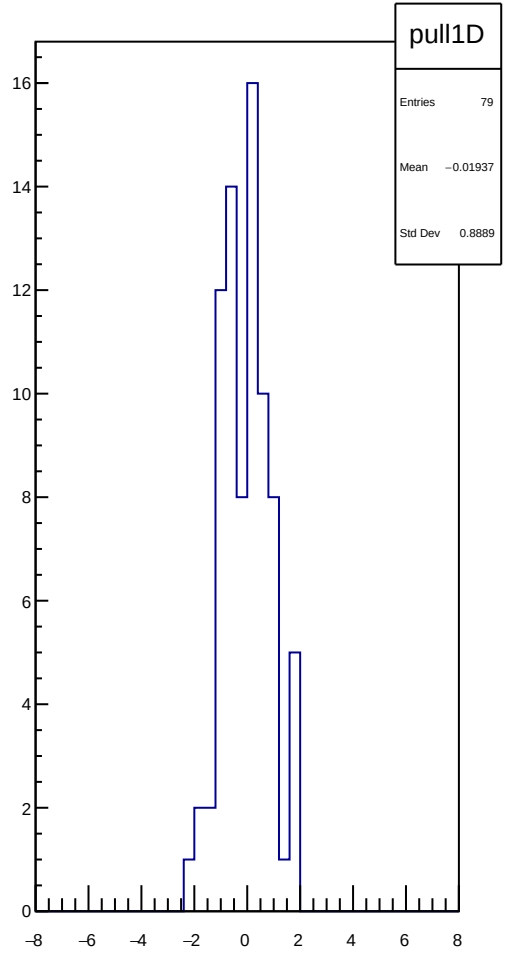

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 2.745e+04 / 78
p0 84.27 ± 0.06866
110
100
90
80
70
60

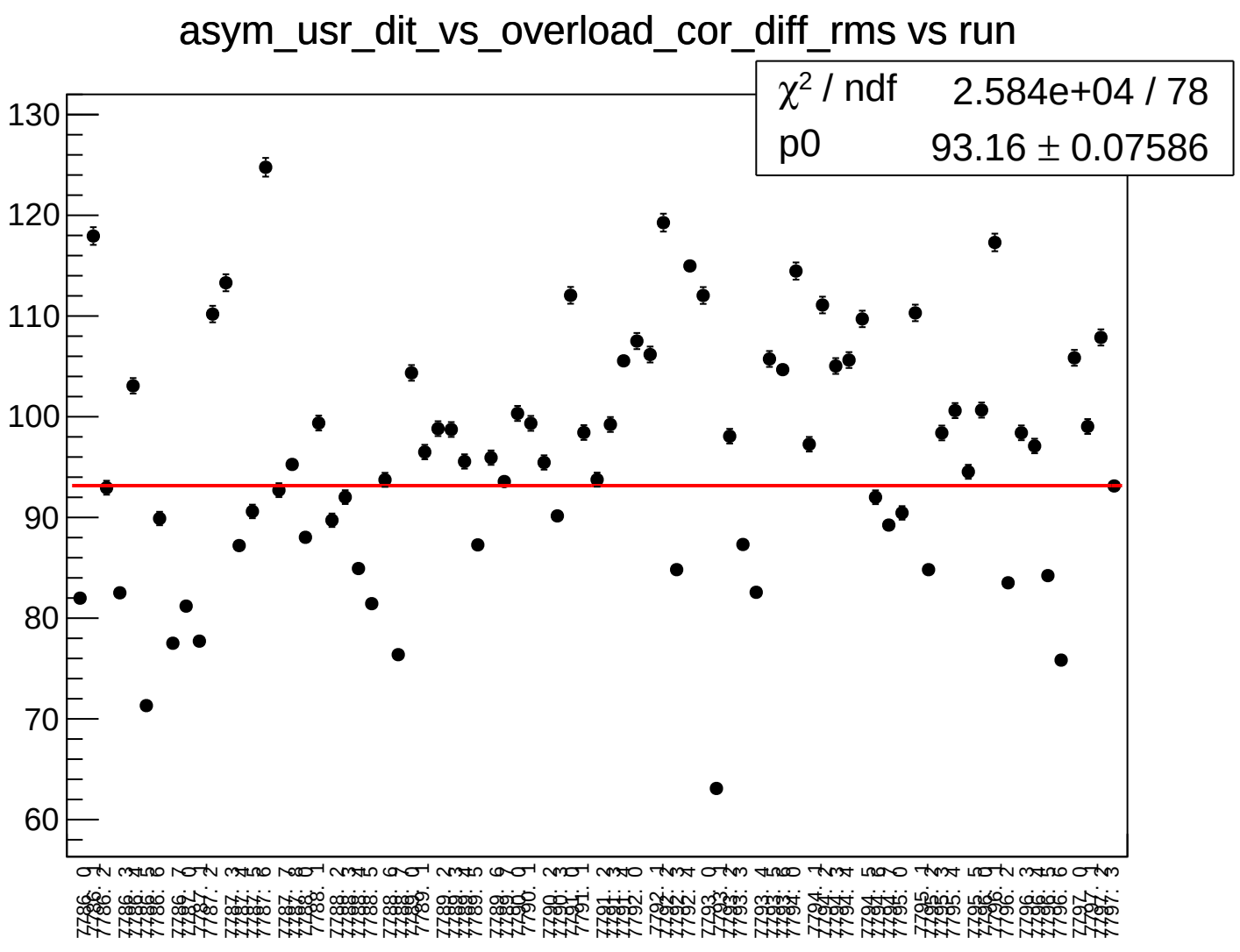

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.91 / 78
p0 0.1098 ± 0.0971
pull
Entries 79
Mean 218.3
Std Dev 0

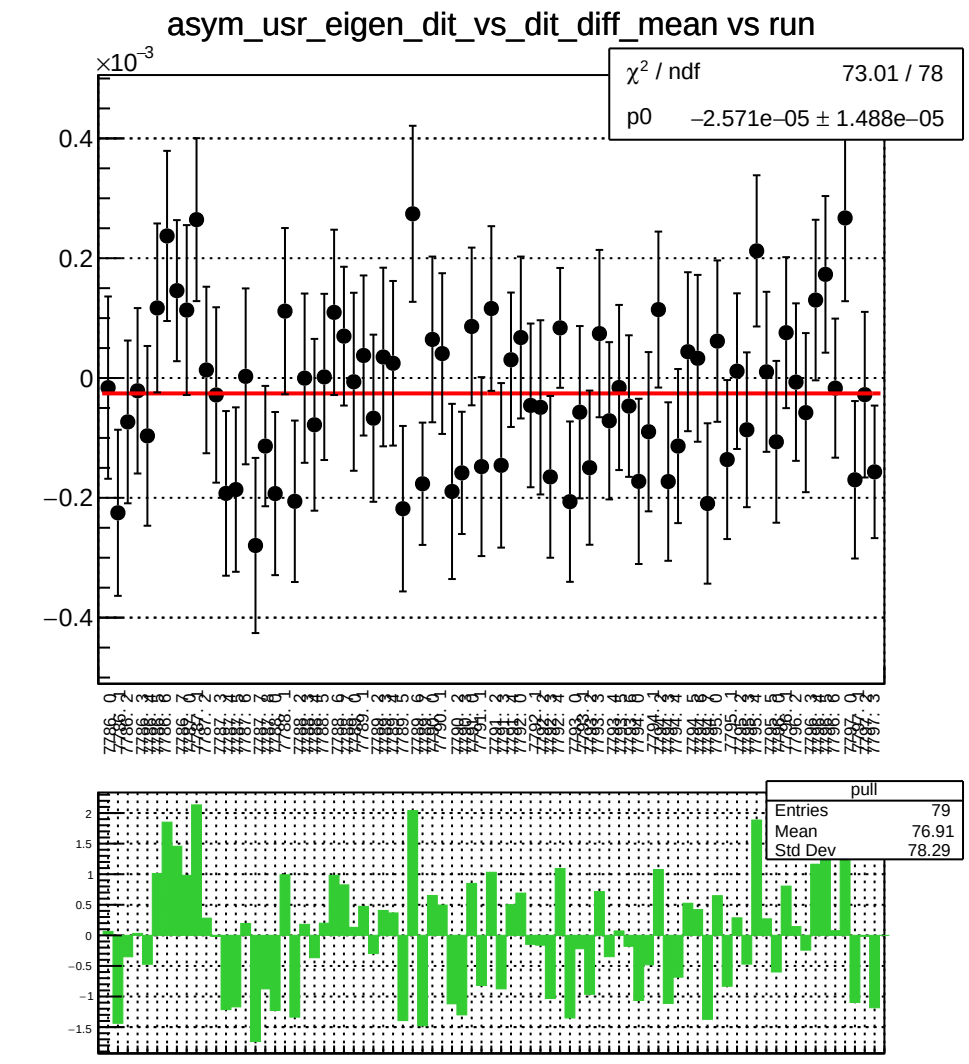

pull1D
Entries 79
Mean −0.01011
Std Dev 0.878

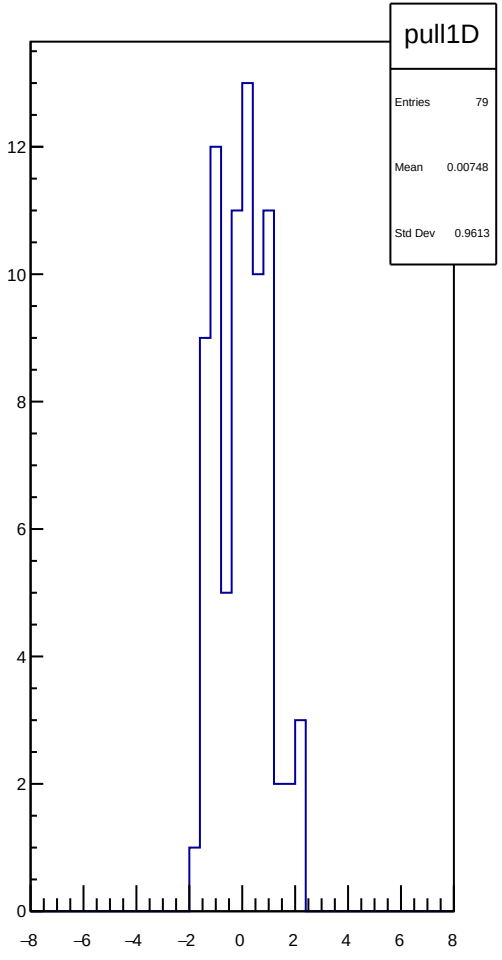

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.745e+04 / 78
p0 84.27 ± 0.06866
110
100
90
80
70
60

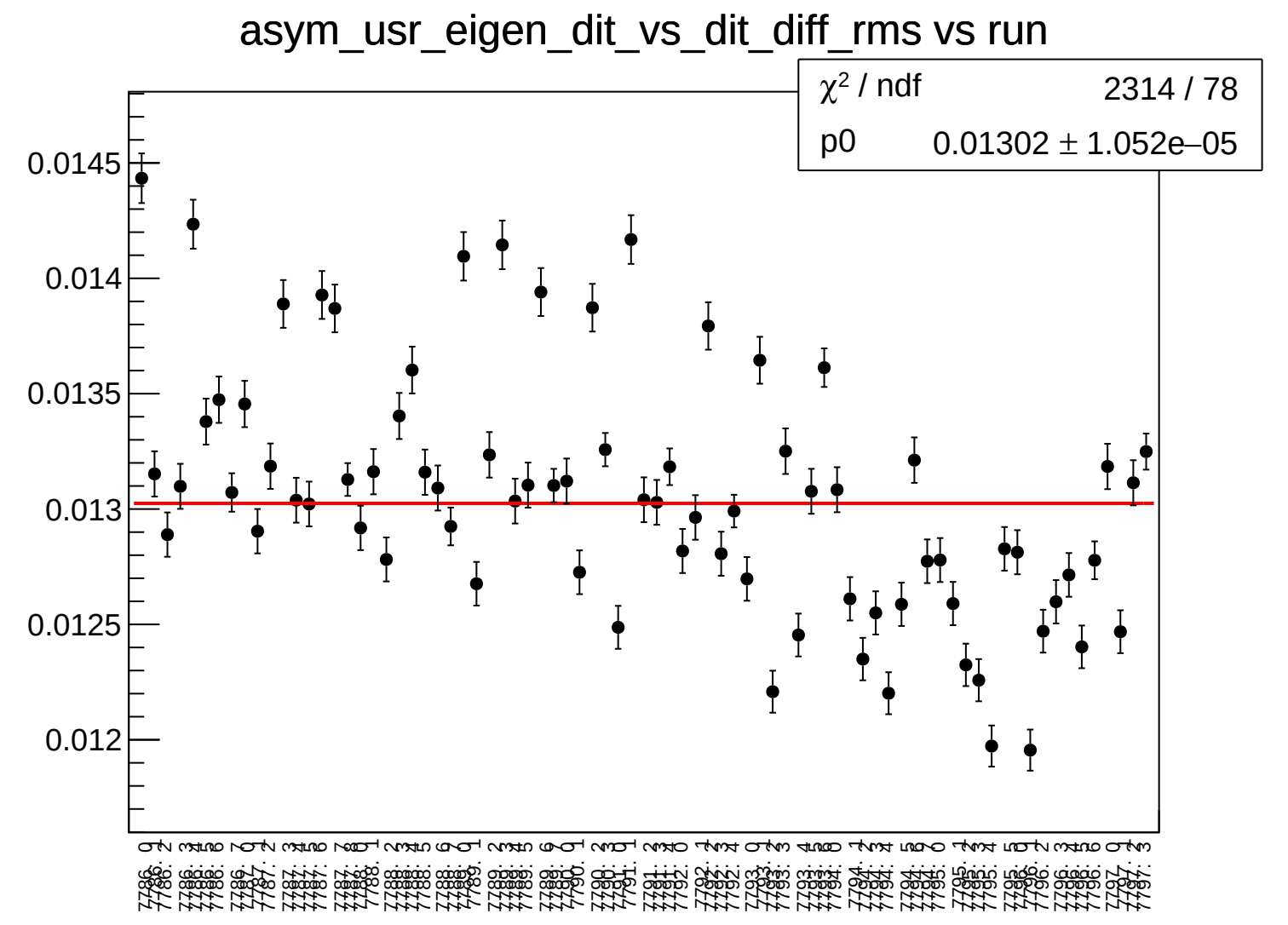

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 62.45 / 78
p0 0.02396 ± 0.1073
pull
Entries 79
Mean 192.1
Std Dev 0

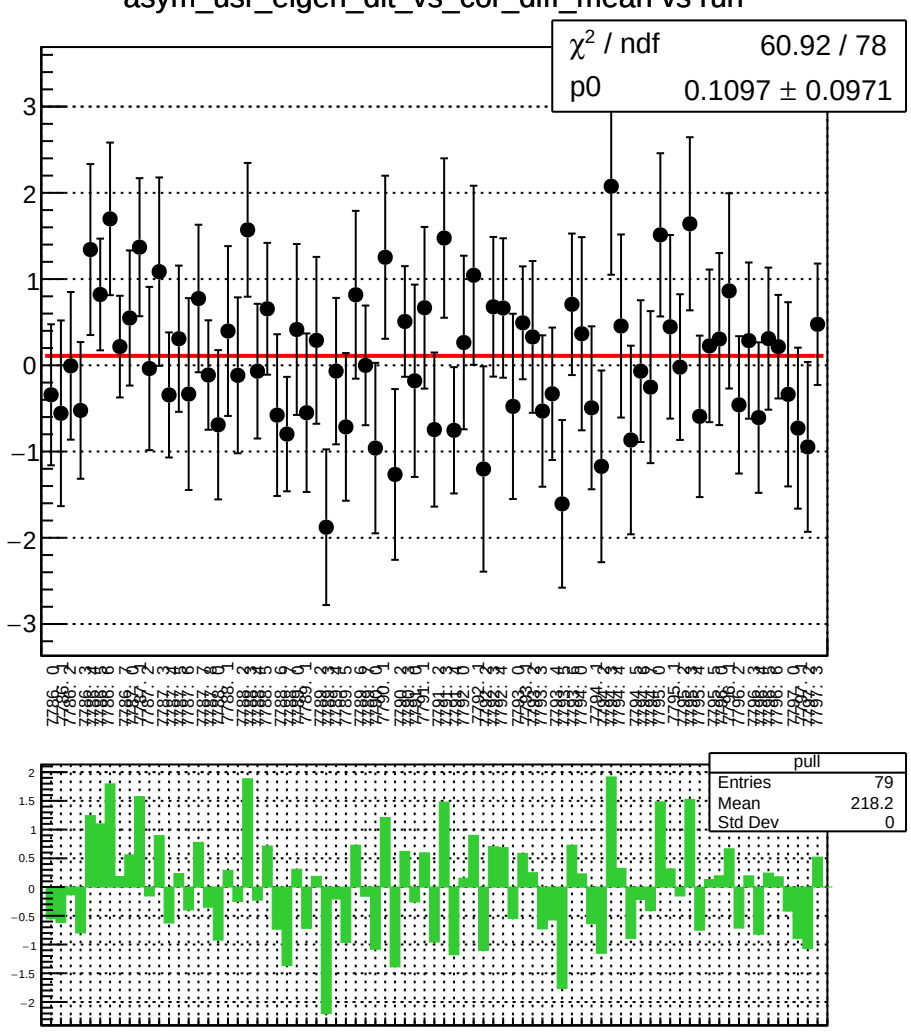

pull1D
Entries 79
Mean −0.01937
Std Dev 0.8889

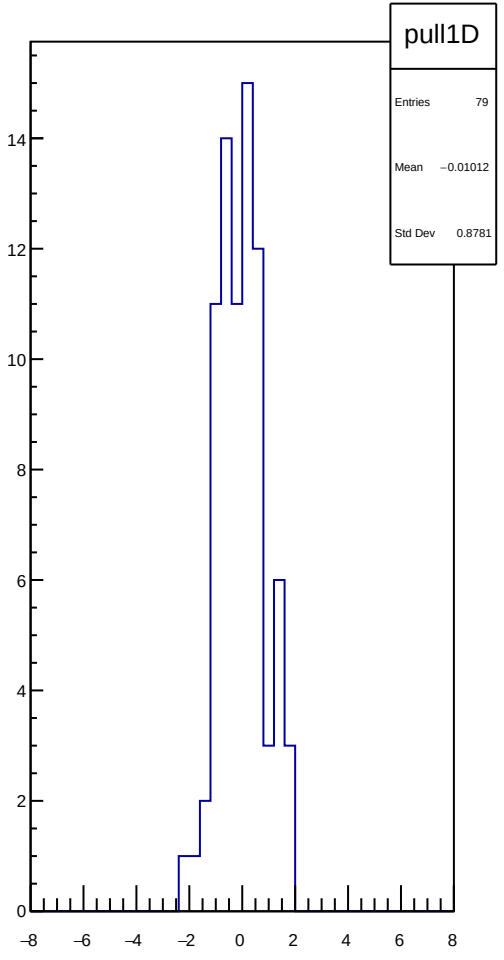

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 2.584e+04 / 78
p0 93.16 ± 0.07586
130
120
110
100
90
80
70
60

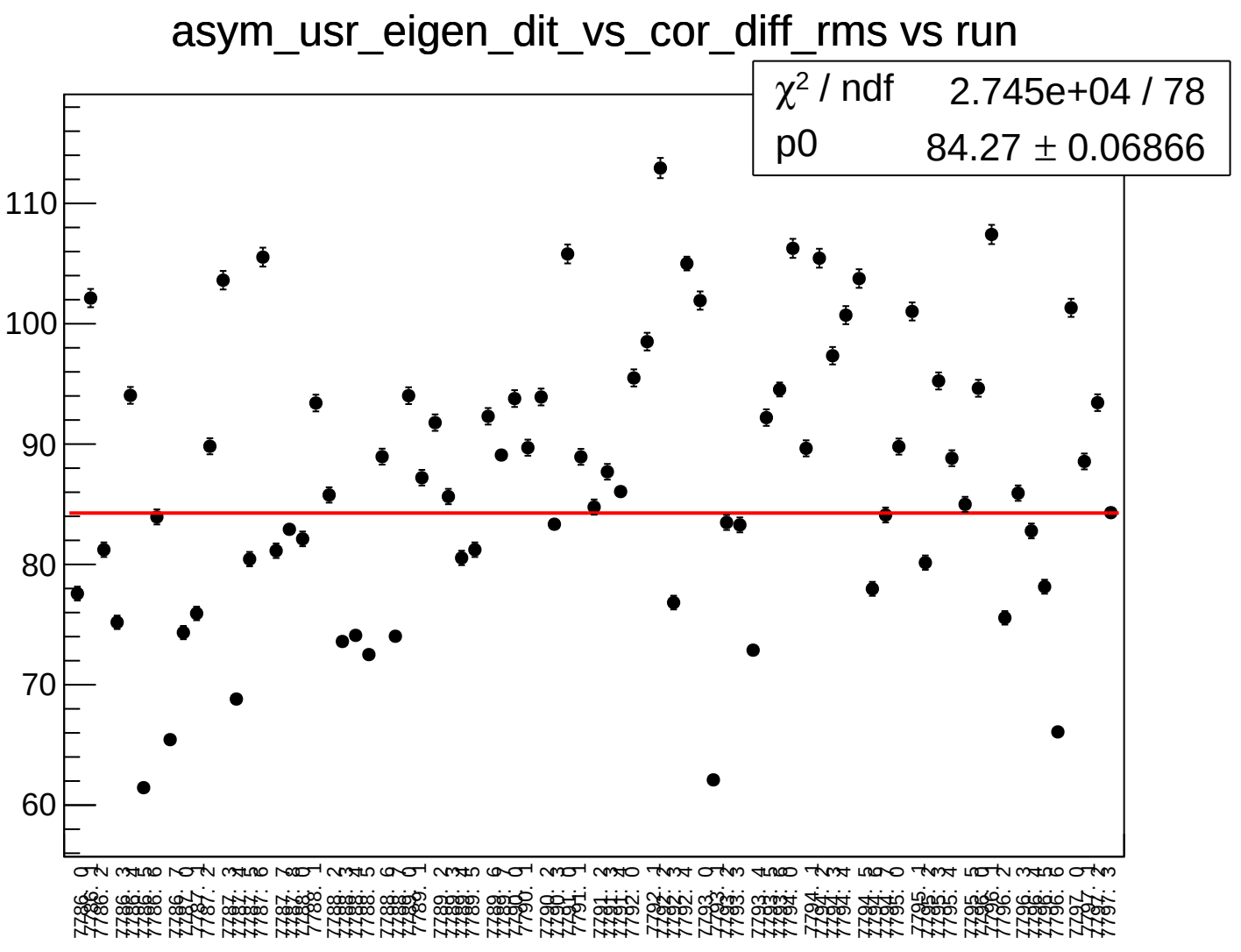

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.01 / 78
p0 −2.571e−05 ± 1.488e−05
pull
Entries 79
Mean 76.91
Std Dev 78.29

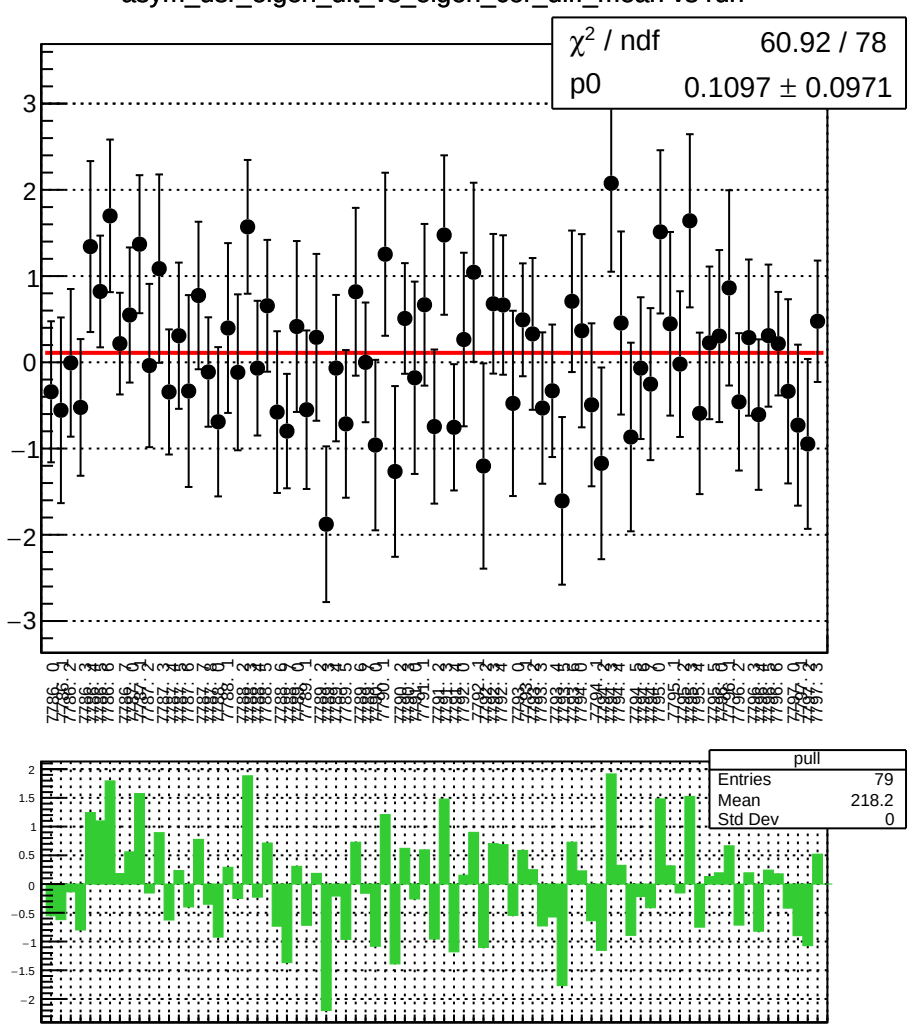

pull1D
Entries 79
Mean 0.00748
Std Dev 0.9613

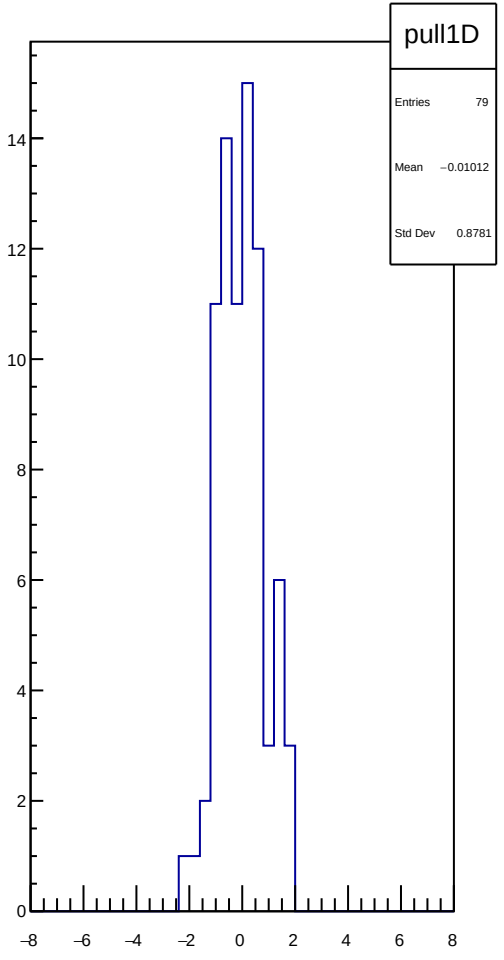

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2314 / 78
p0 0.01302 ± 1.052e–05
0.0145
0.014
0.0135
0.013
0.0125
0.012

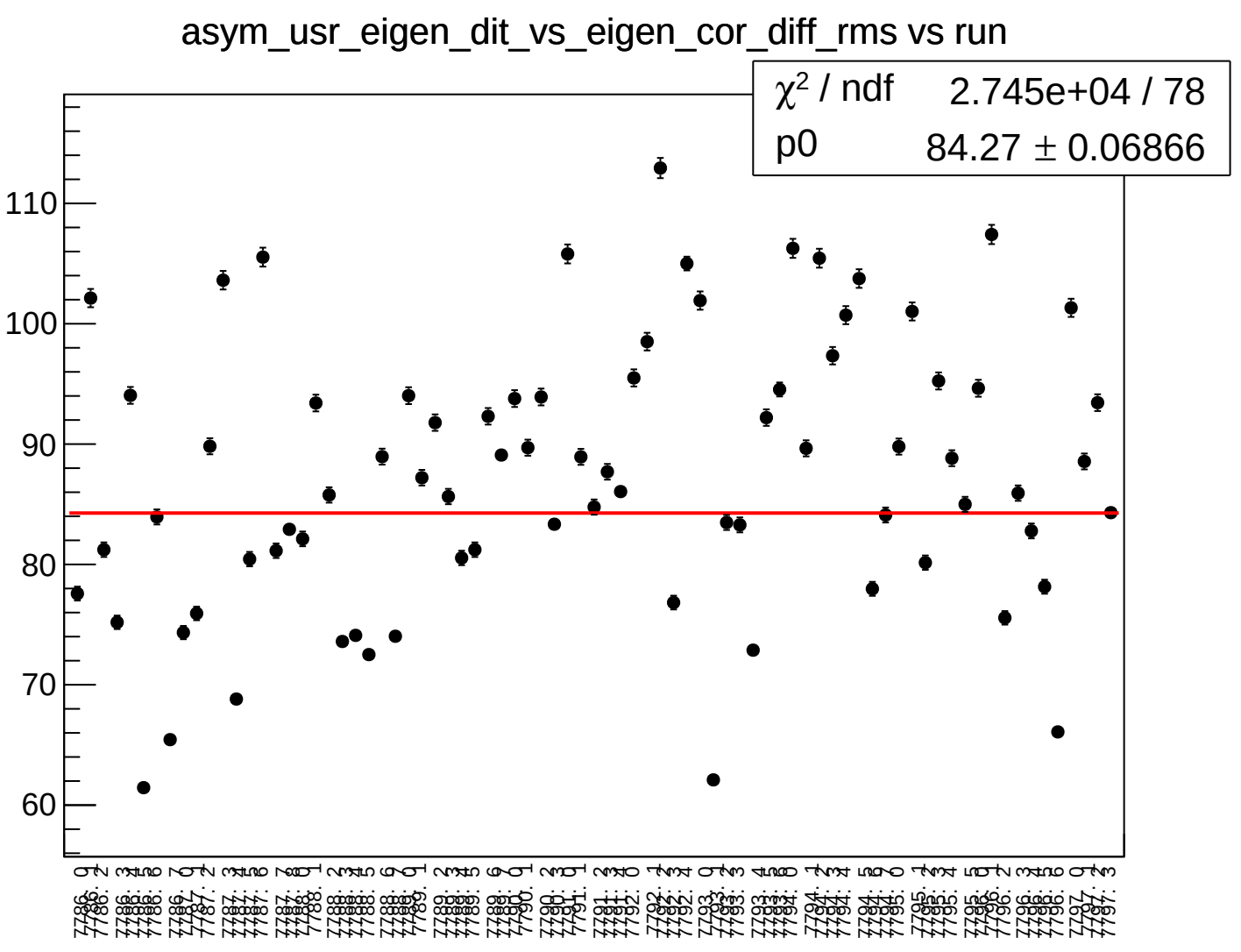

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.92 / 78
p0 0.1097 ± 0.0971
pull
Entries 79
Mean 218.2
Std Dev 0

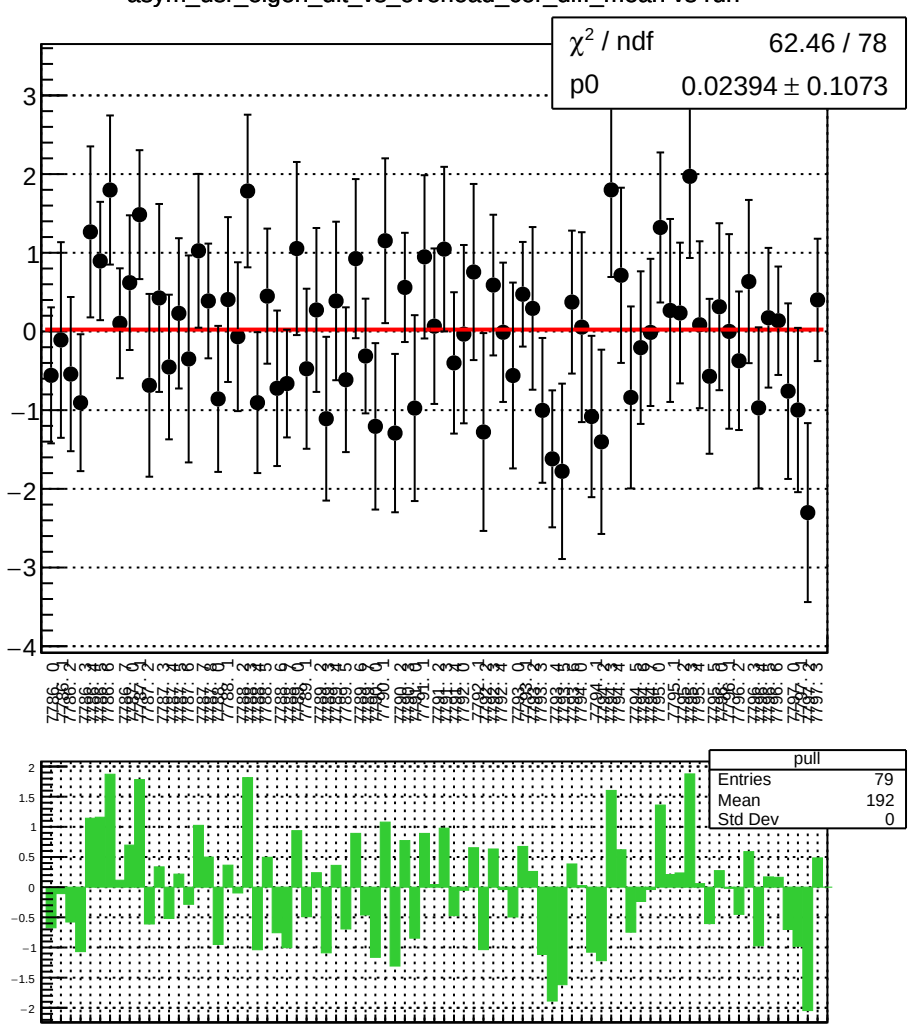

pull1D
Entries 79
Mean −0.01012
Std Dev 0.8781

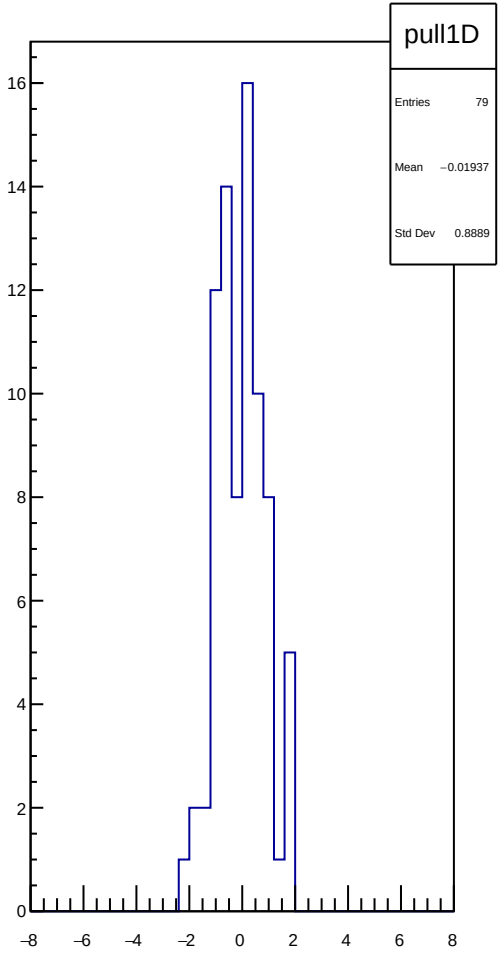

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.745e+04 / 78
p0 84.27 ± 0.06866
110
100
90
80
70
60

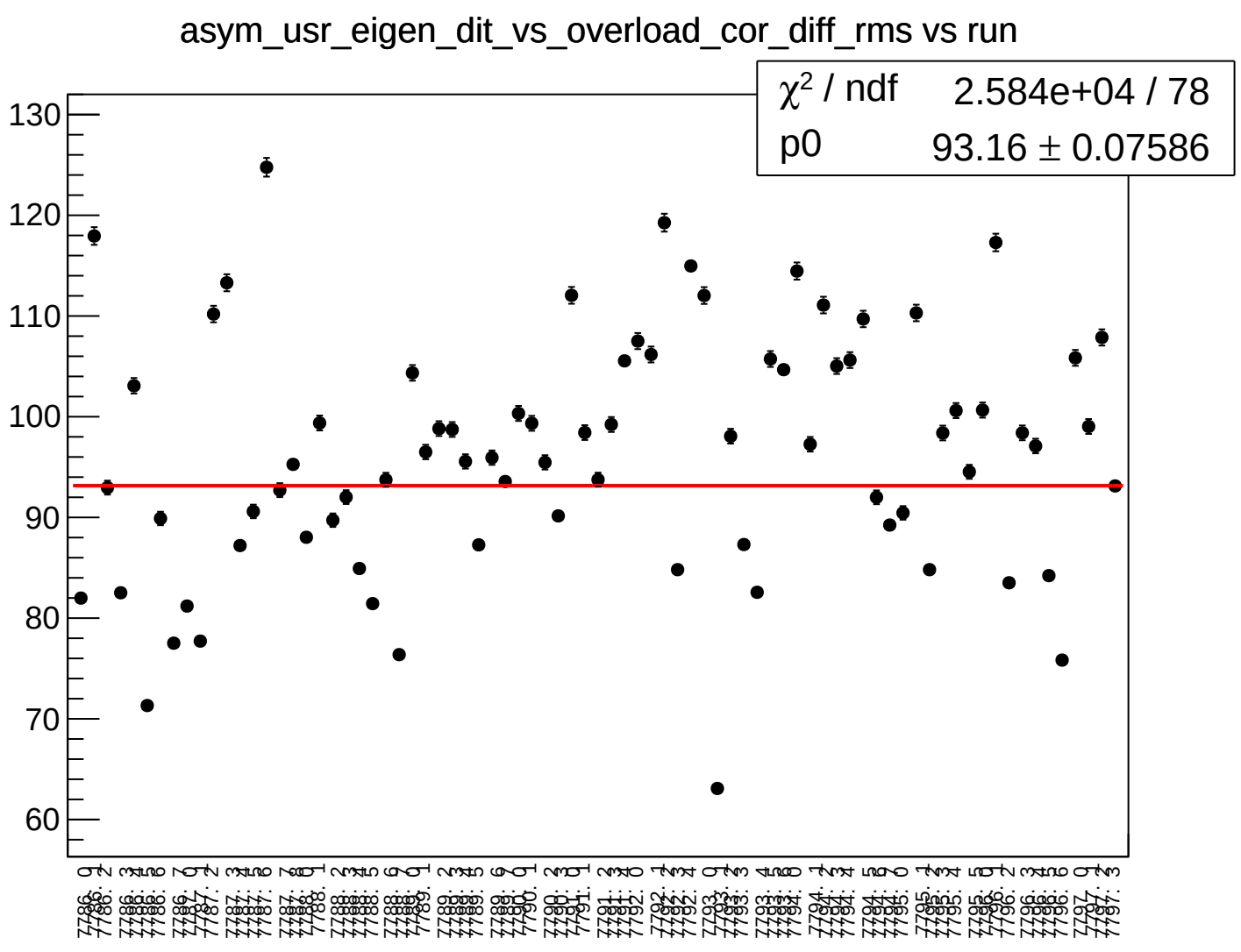

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.92 / 78
p0 0.1097 ± 0.0971
pull
Entries 79
Mean 218.2
Std Dev 0

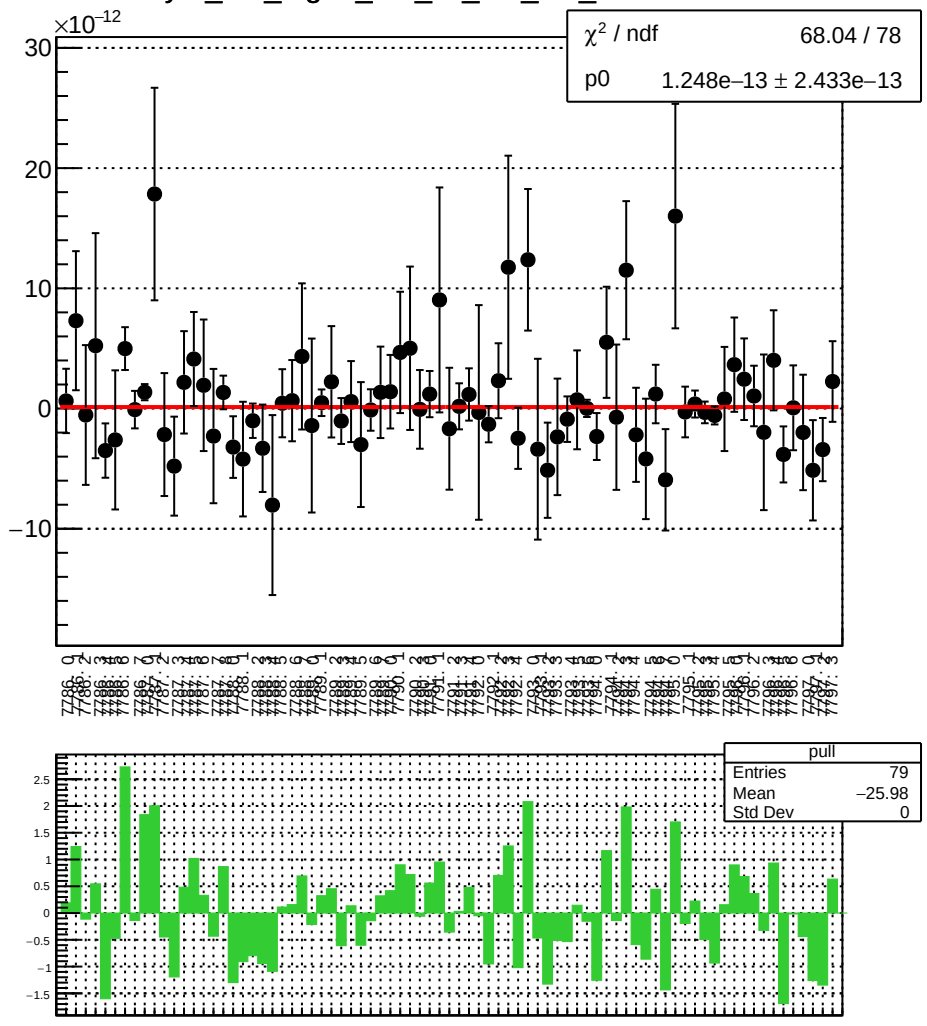

pull1D
Entries 79
Mean −0.01012
Std Dev 0.8781

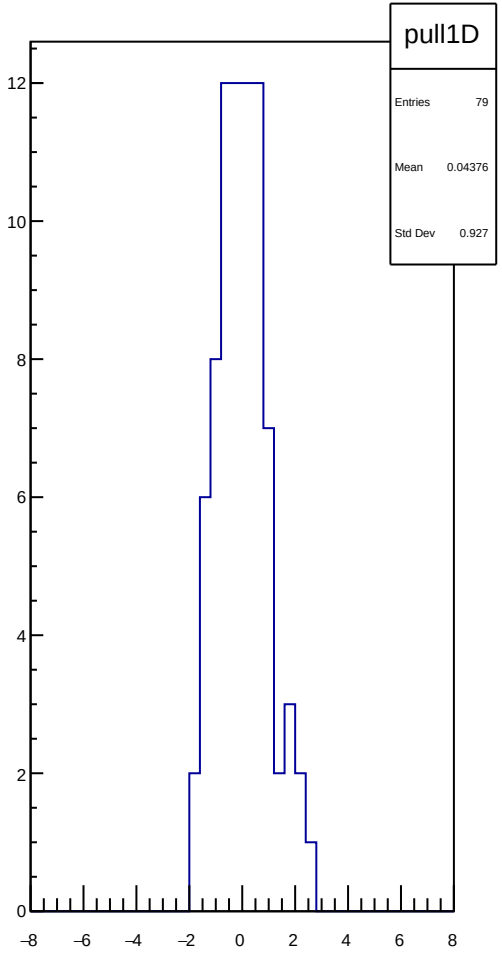

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.745e+04 / 78
p0 84.27 ± 0.06866
110
100
90
80
70
60

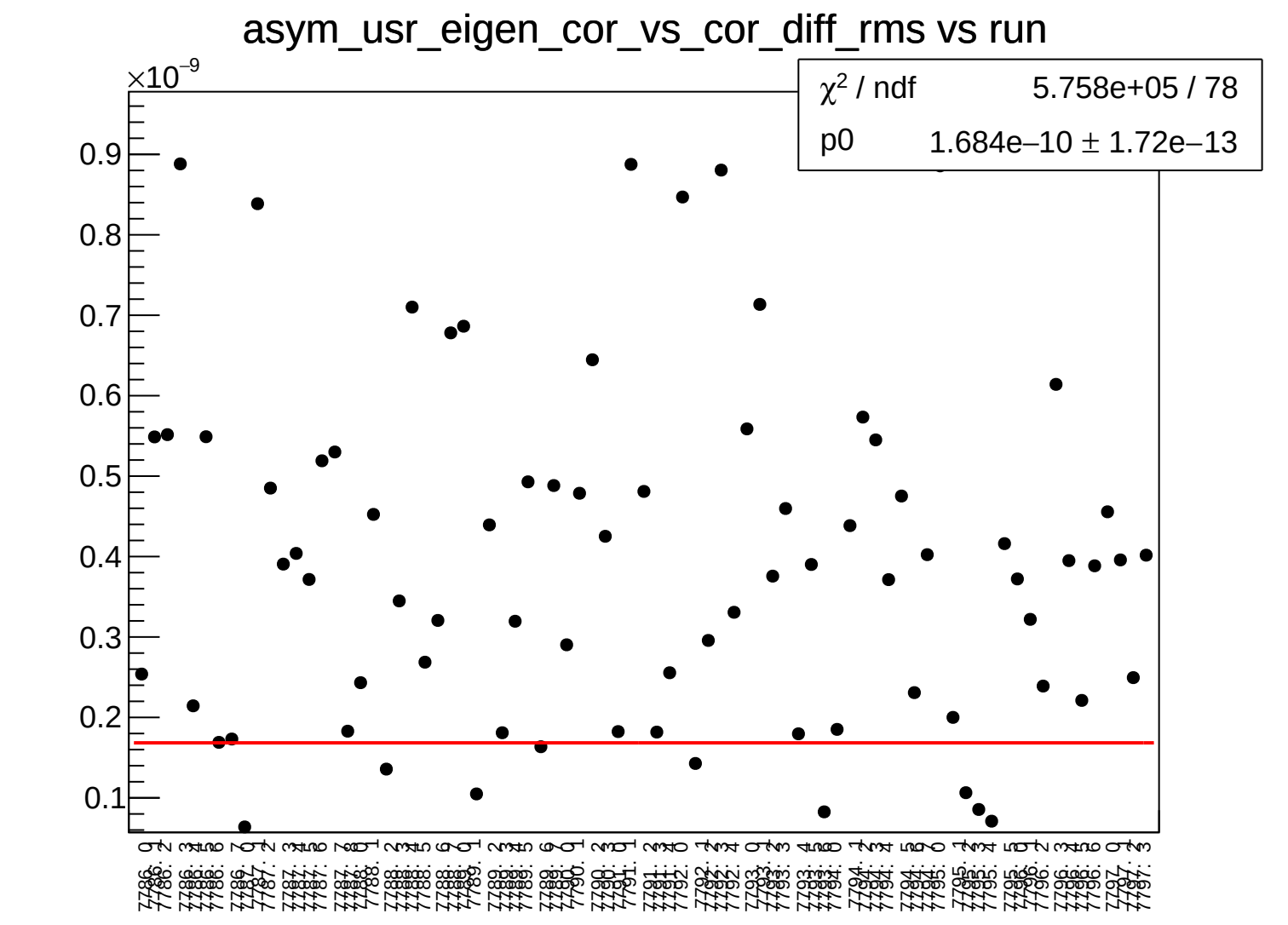

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 62.46 / 78
p0 0.02394 ± 0.1073
pull
Entries 79
Mean 192
Std Dev 0

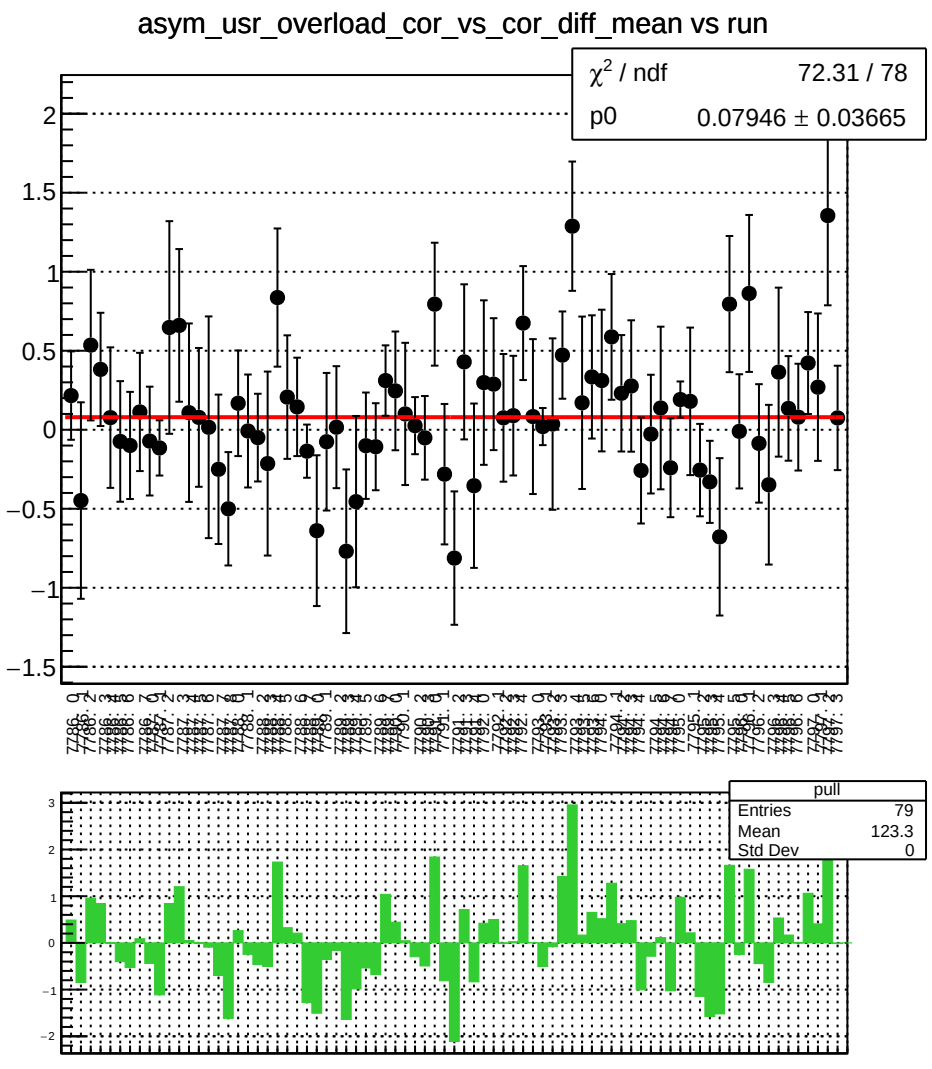

pull1D
Entries 79
Mean −0.01937
Std Dev 0.8889

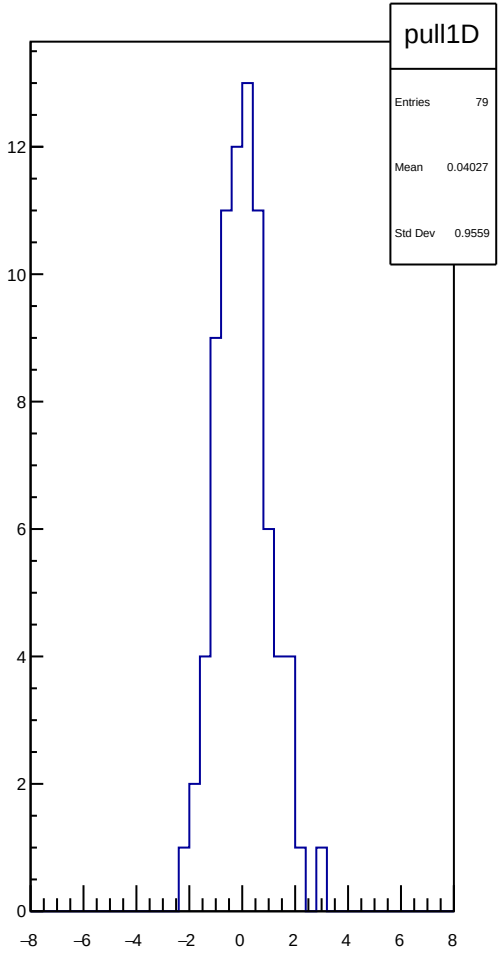

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.584e+04 / 78
p0 93.16 ± 0.07586
130
120
110
100
90
80
70
60

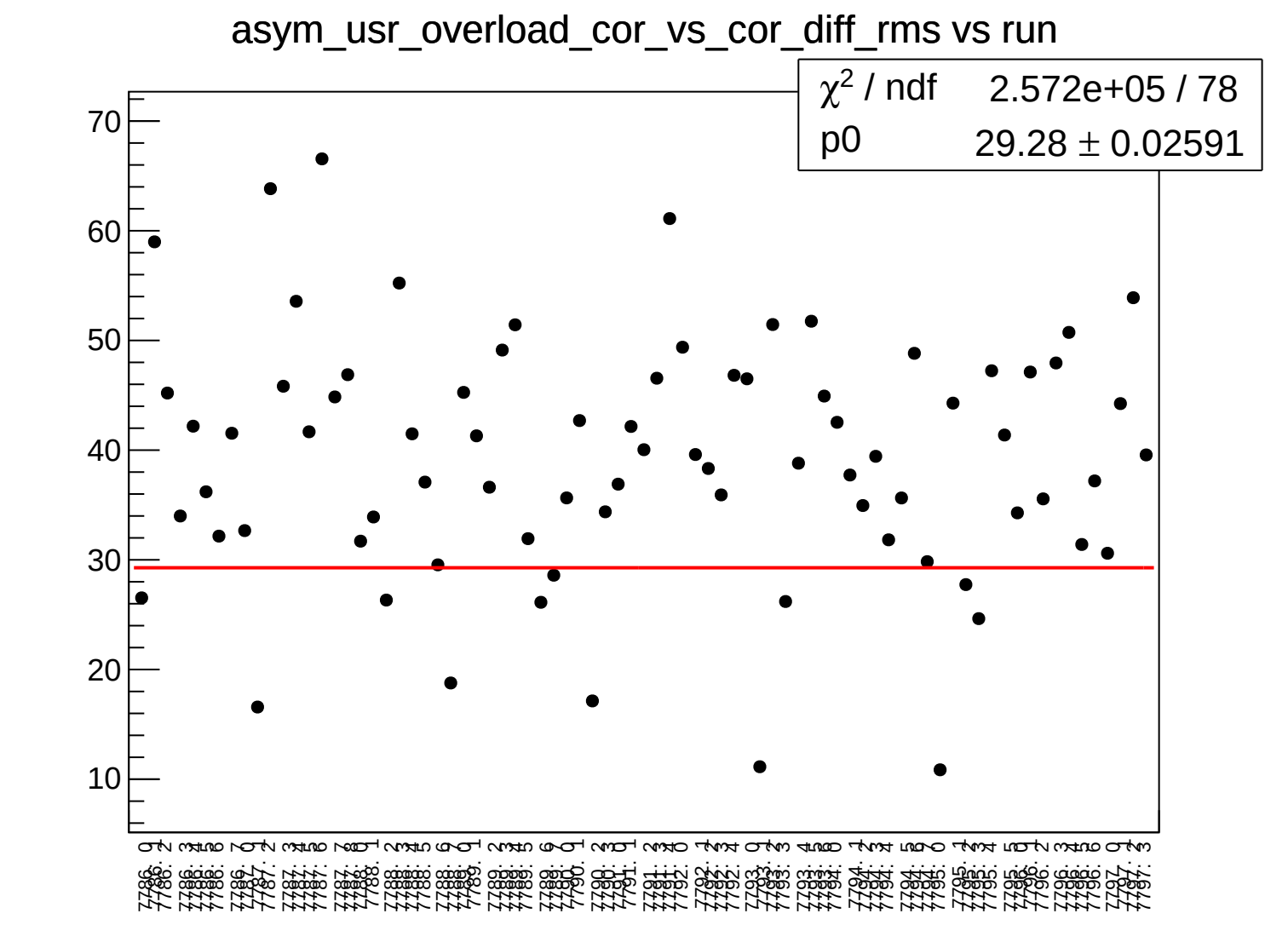

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.04 / 78
p0 1.248e−13 ± 2.433e−13
pull
Entries 79
Mean −25.98
Std Dev 0

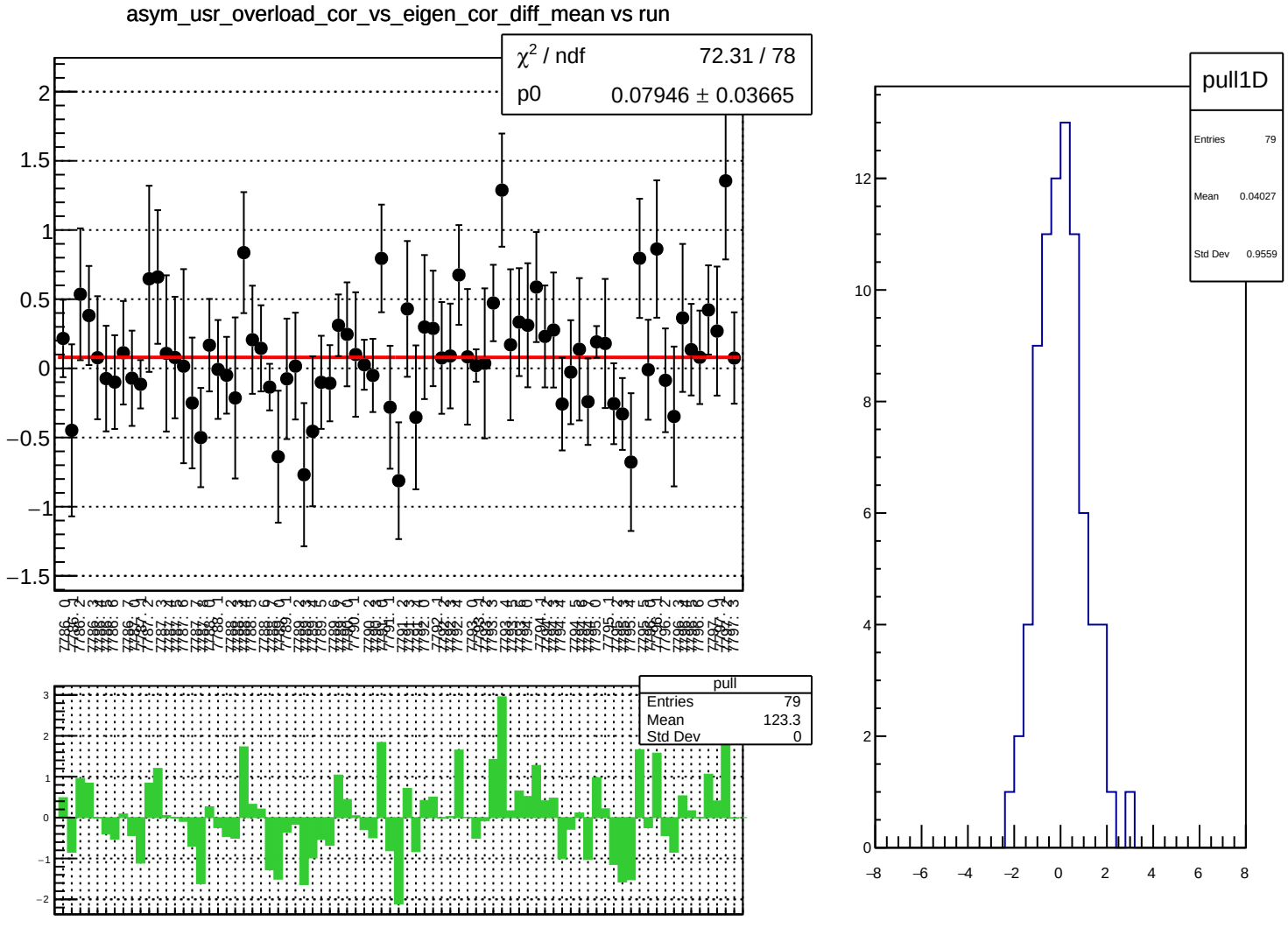

pull1D
Entries 79
Mean 0.04376
Std Dev 0.927

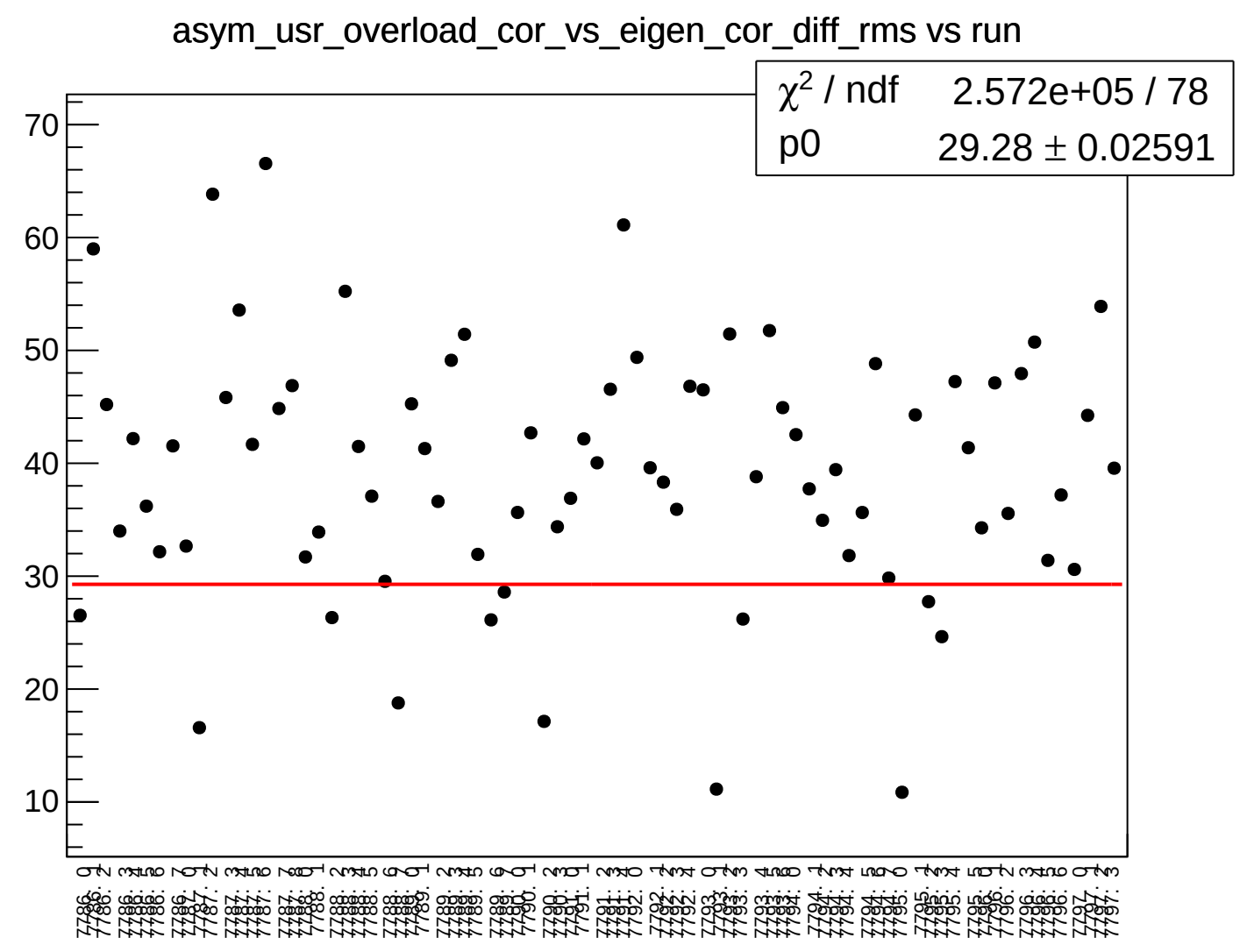

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.758e+05 / 78
p0 1.684e−10 ± 1.72e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

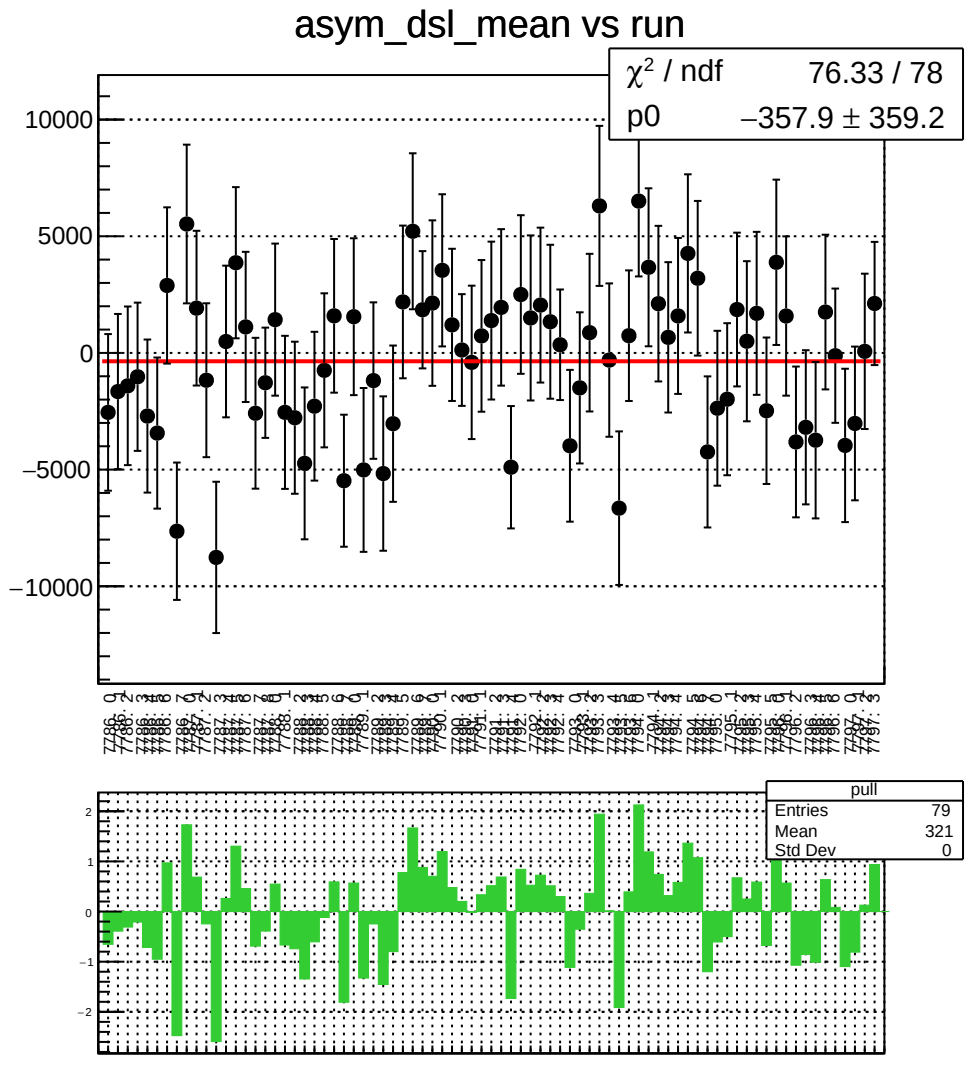

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 72.31 / 78
p0 0.07946 ± 0.03665
pull
Entries 79
Mean 123.3
Std Dev 0

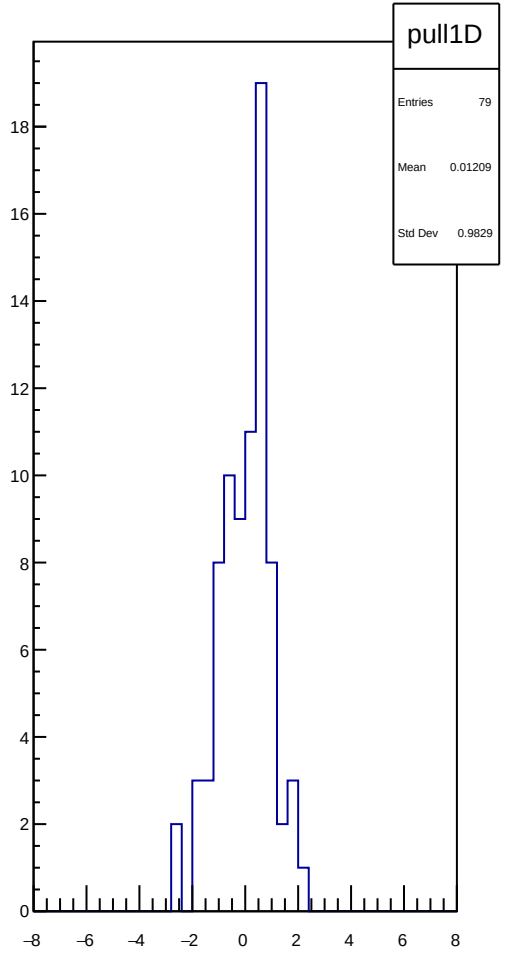

pull1D
Entries 79
Mean 0.04027
Std Dev 0.9559

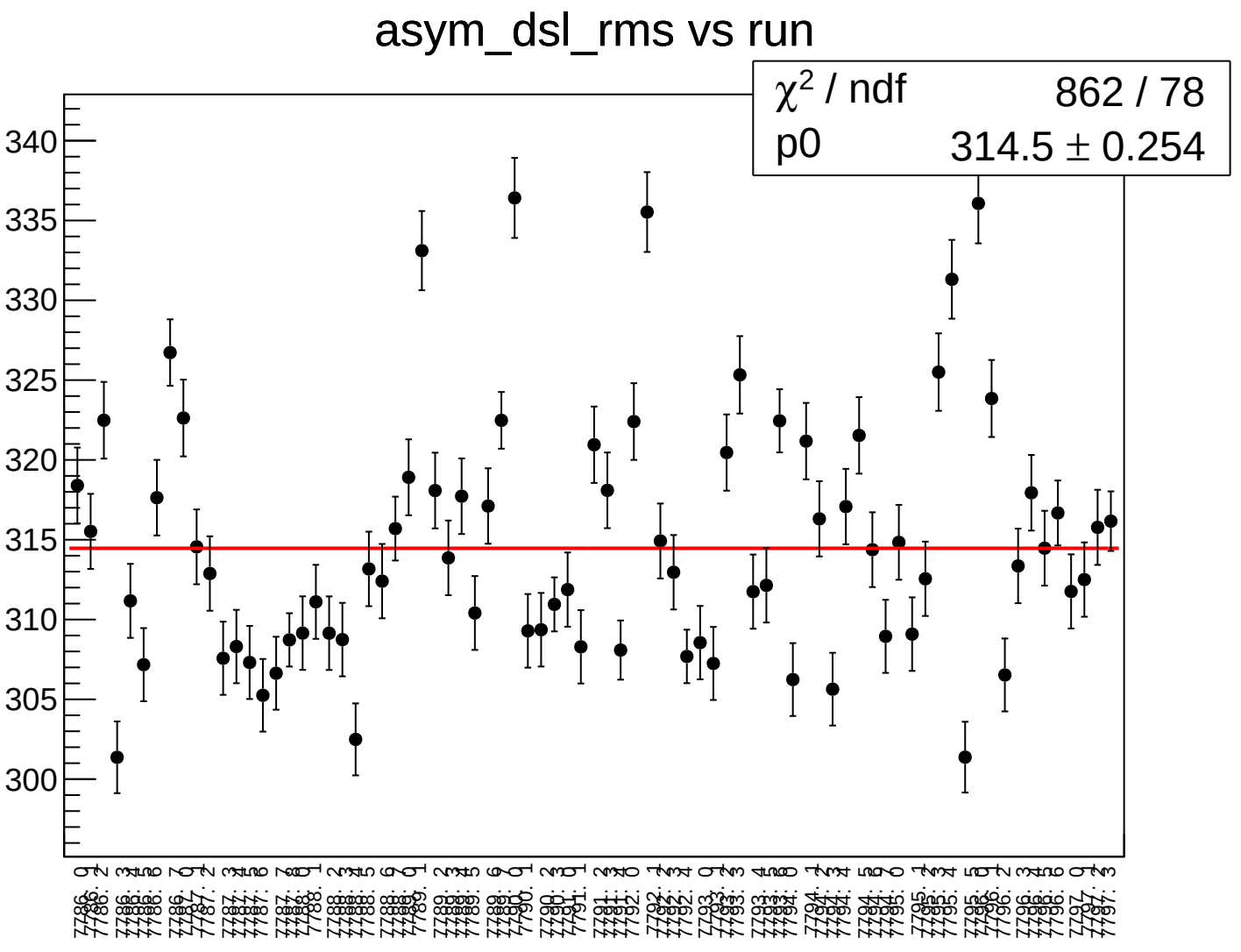

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 2.572e+05 / 78
p0 29.28 ± 0.02591
70
60
50
40
30
20
10

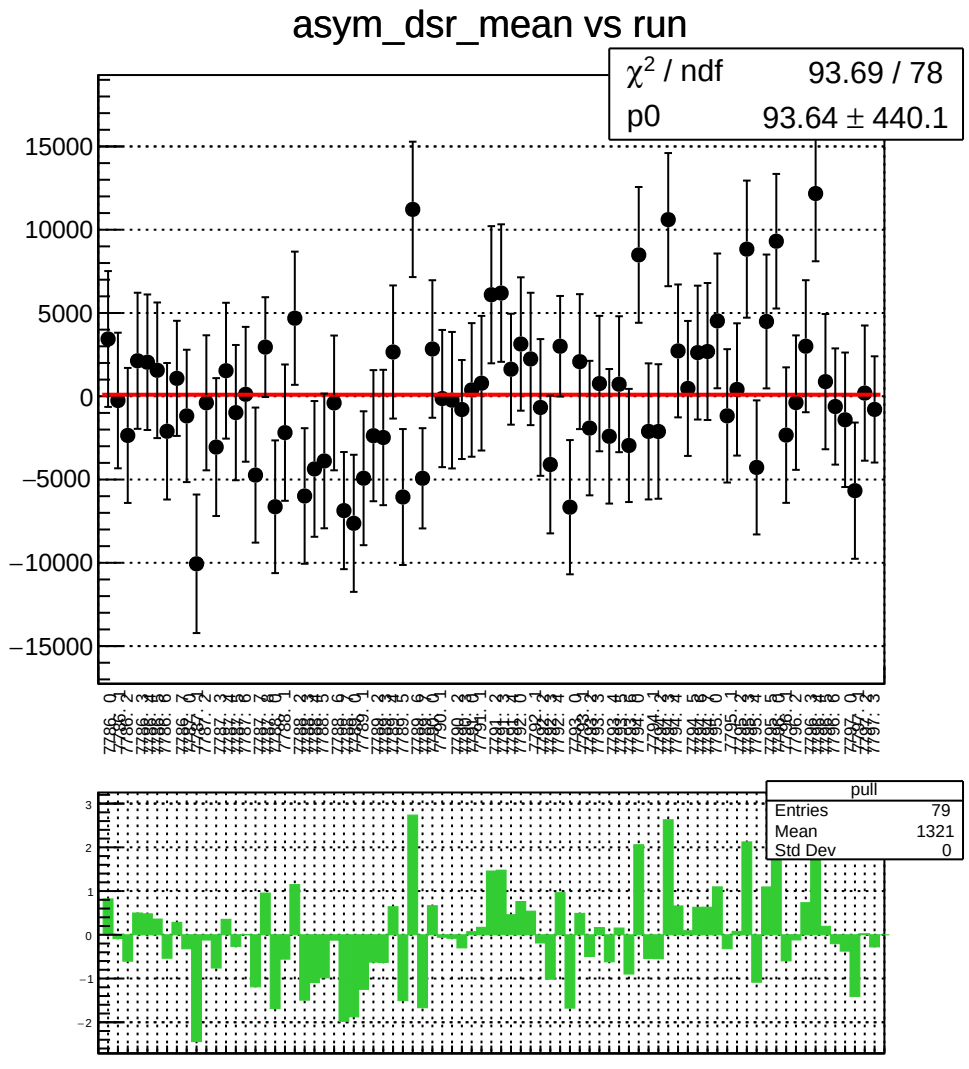

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.31 / 78
p0 0.07946 ± 0.03665
pull
Entries 79
Mean 123.3
Std Dev 0
pull1D
Entries 79
Mean 0.04027
Std Dev 0.9559

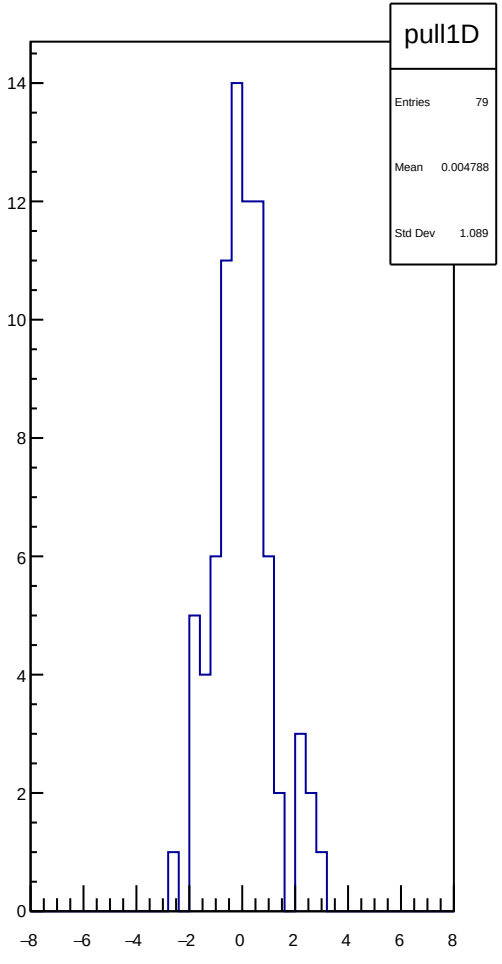

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.572e+05 / 78
p0 29.28 ± 0.02591
70
60
50
40
30
20
10

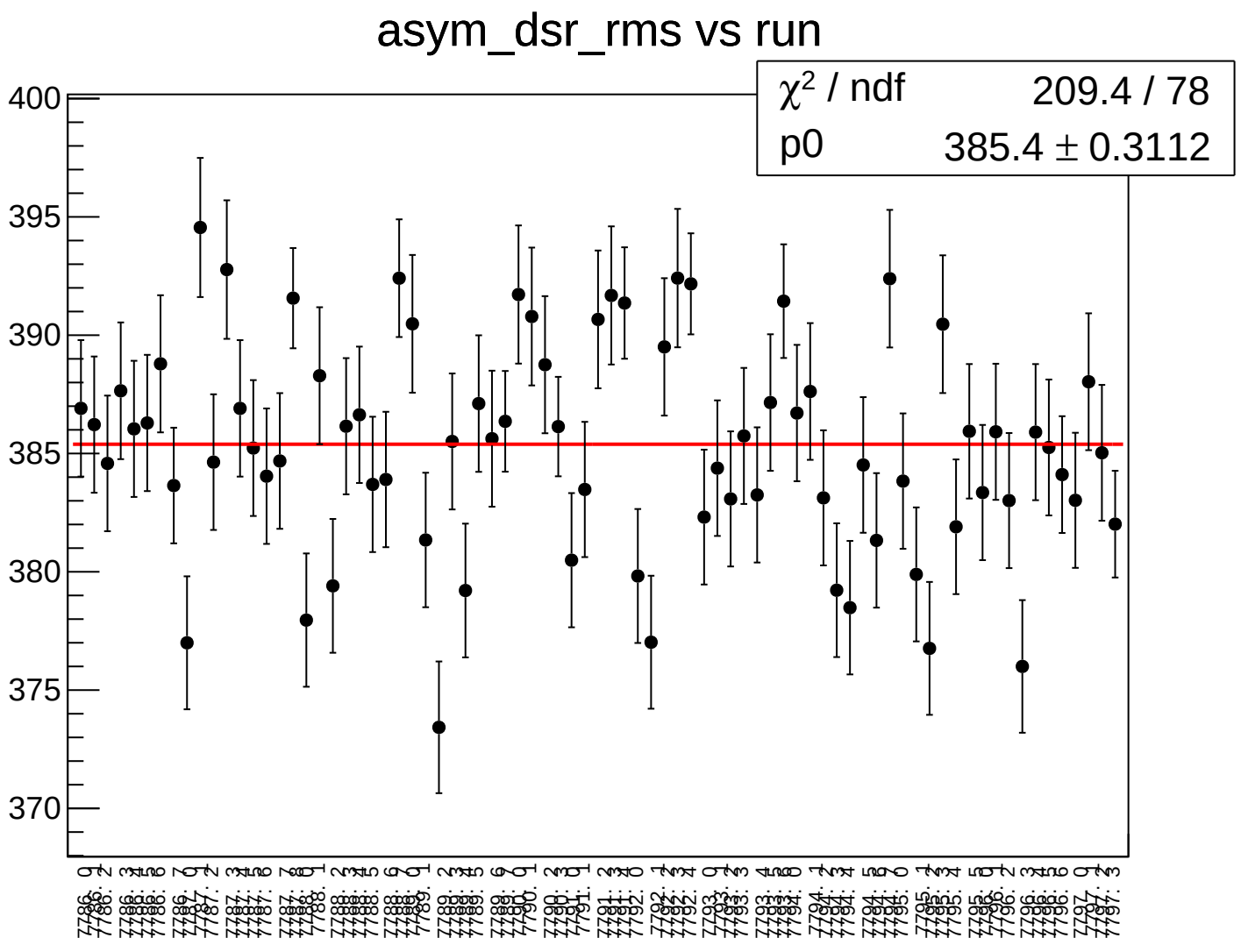

asym_dsl_mean vs run
χ² / ndf 76.33 / 78
p0 −357.9 ± 359.2
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 321
Std Dev 0
2
1
0
−1
−2

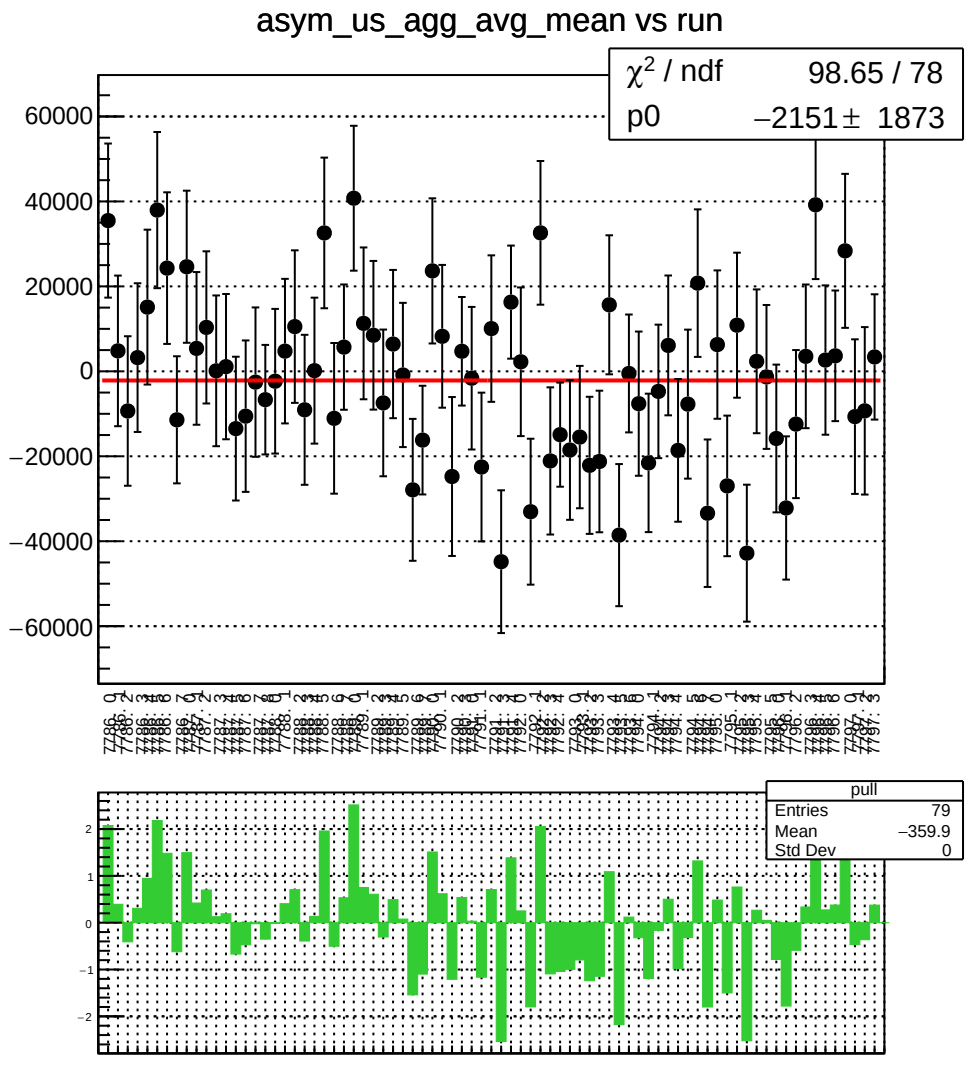

pull1D
Entries 79
Mean 0.01209
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

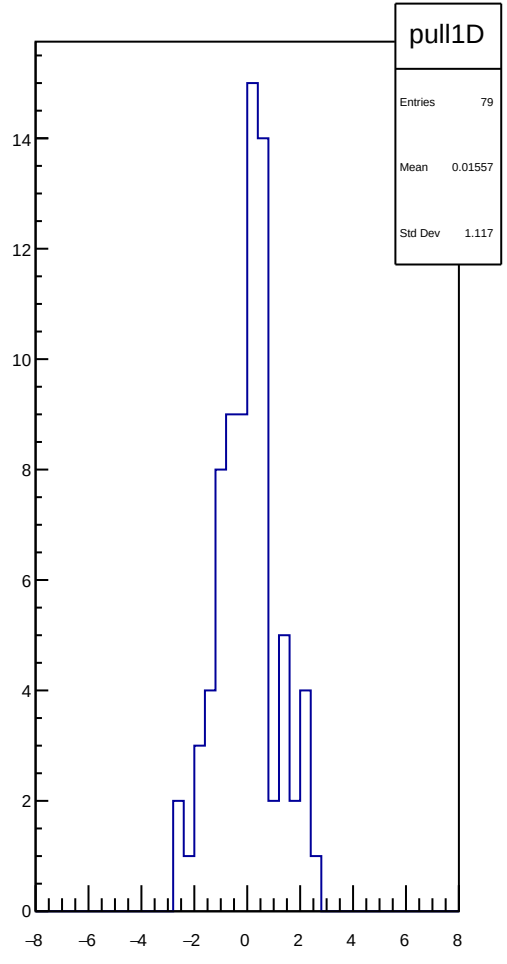

asym_dsl_rms vs run
χ^2 / ndf 862 / 78
p0 314.5 ± 0.254
340
335
330
325
320
315
310
305
300

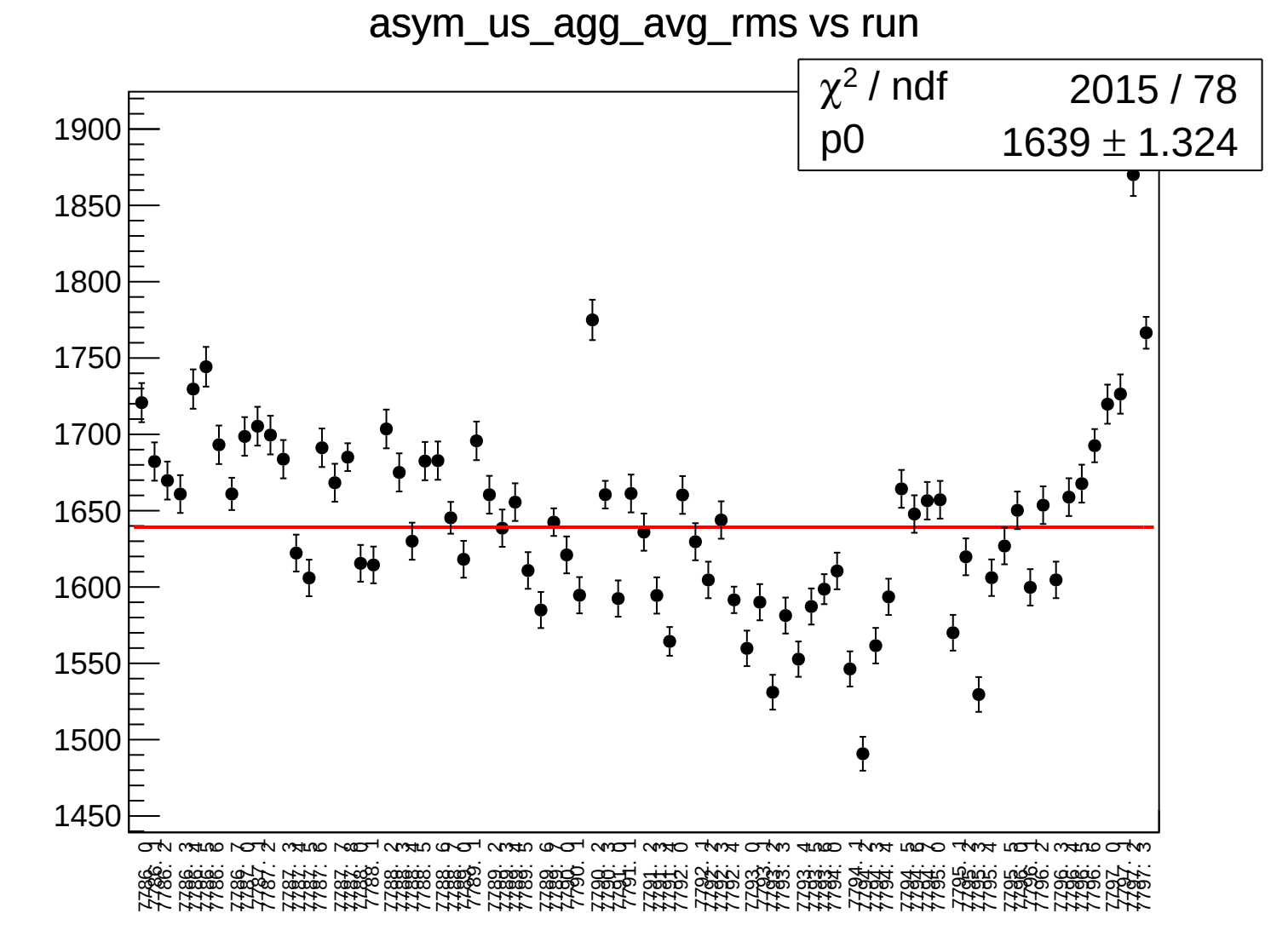

asym_dsr_mean vs run
χ² / ndf 93.69 / 78
p0 93.64 ± 440.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 1321
Std Dev 0
3
2
1
0
−1
−2

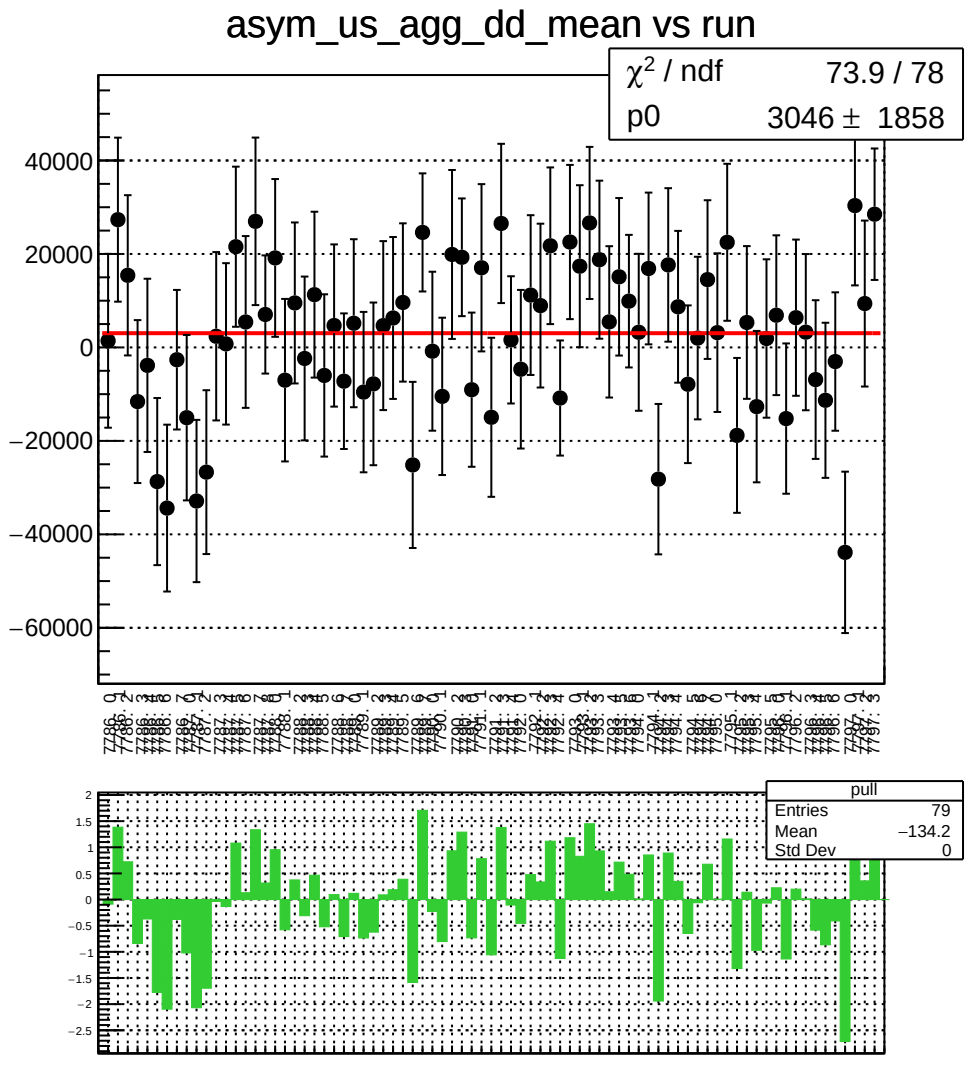

pull1D
Entries 79
Mean 0.004788
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

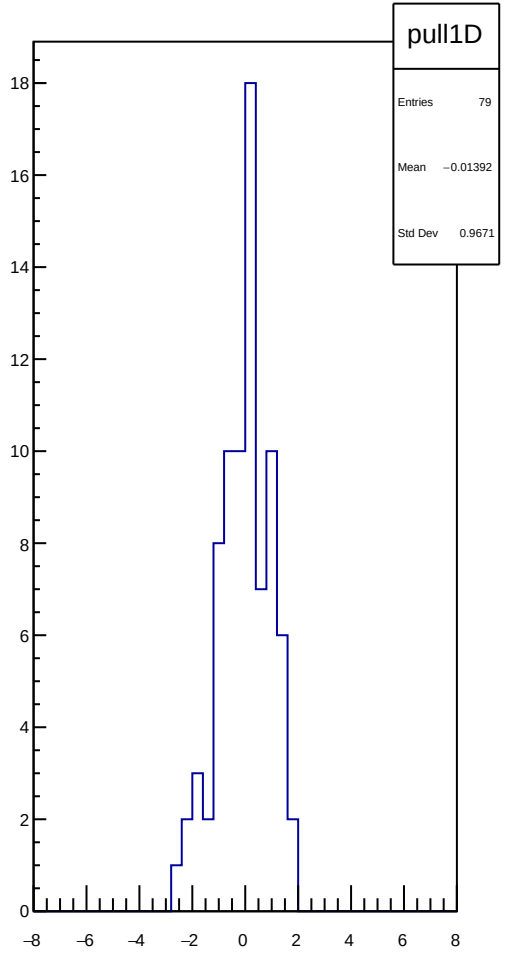

asym_dsr_rms vs run
χ² / ndf 209.4 / 78
p0 385.4 ± 0.3112
400
395
390
385
380
375
370

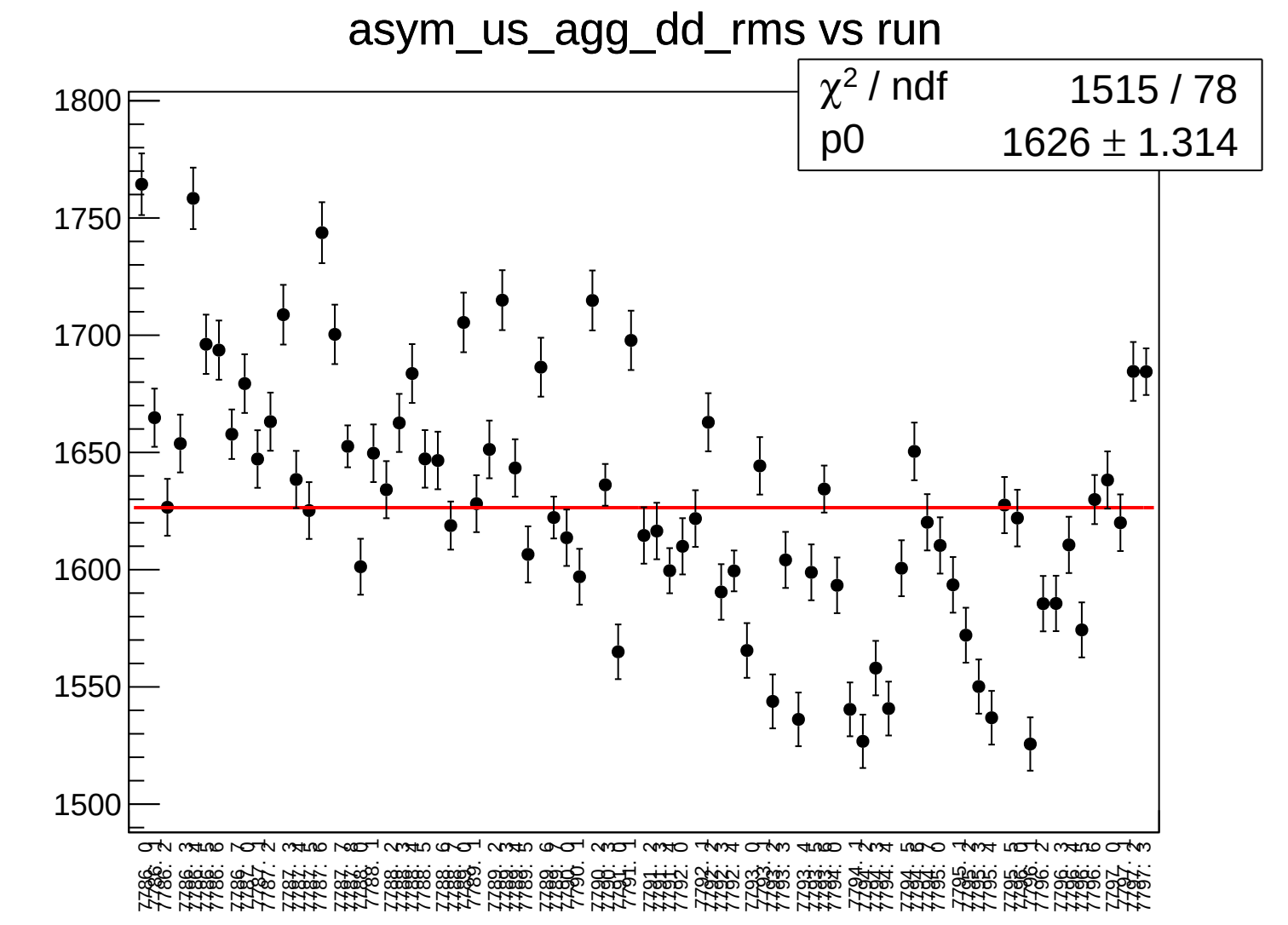

asym_us_agg_avg_mean vs run
χ² / ndf 98.65 / 78
p0 −2151 ± 1873
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −359.9
Std Dev 0
2
1
0
−1
−2

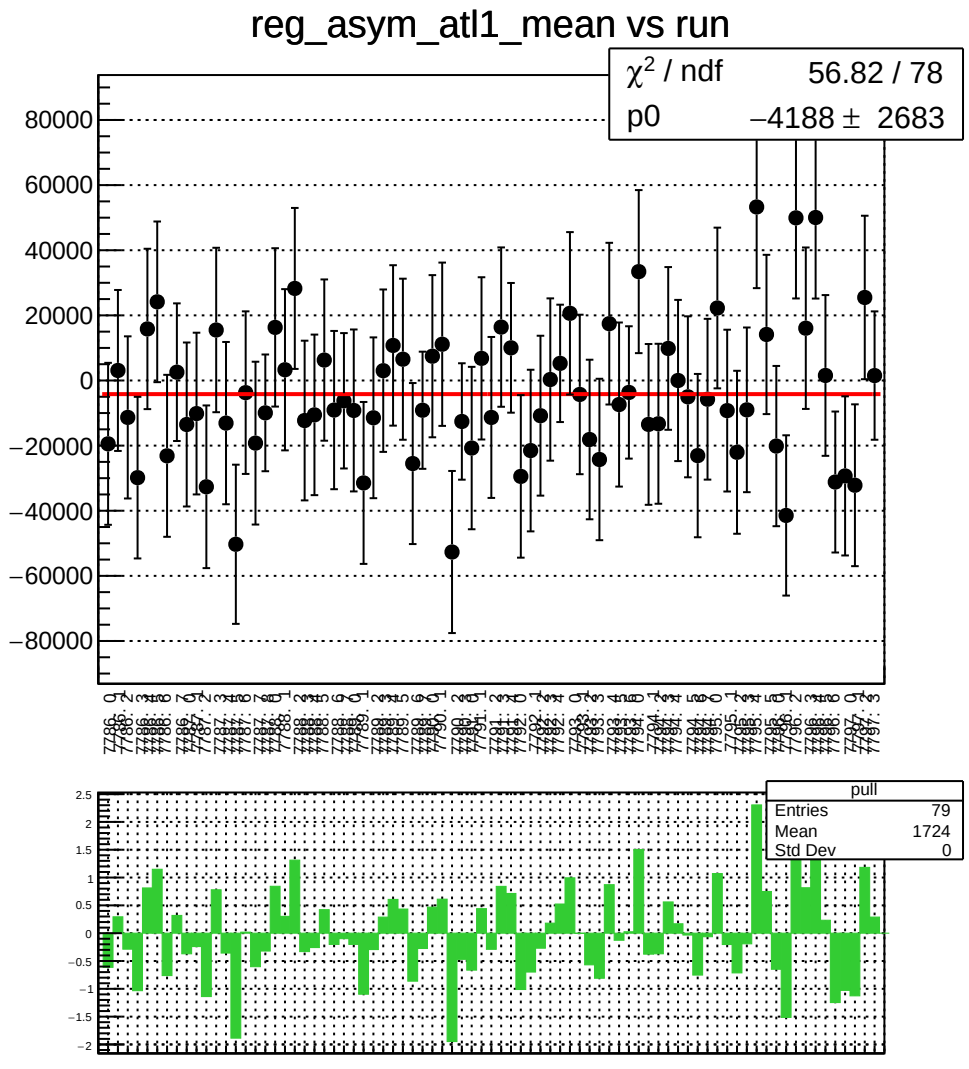

pull1D
Entries 79
Mean 0.01557
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

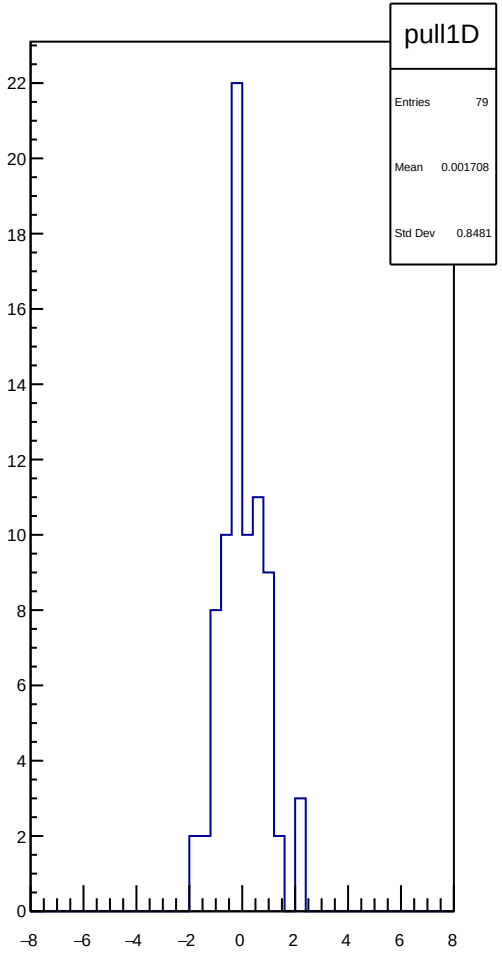

asym_us_agg_avg_rms vs run
χ² / ndf 2015 / 78
p0 1639 ± 1.324
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

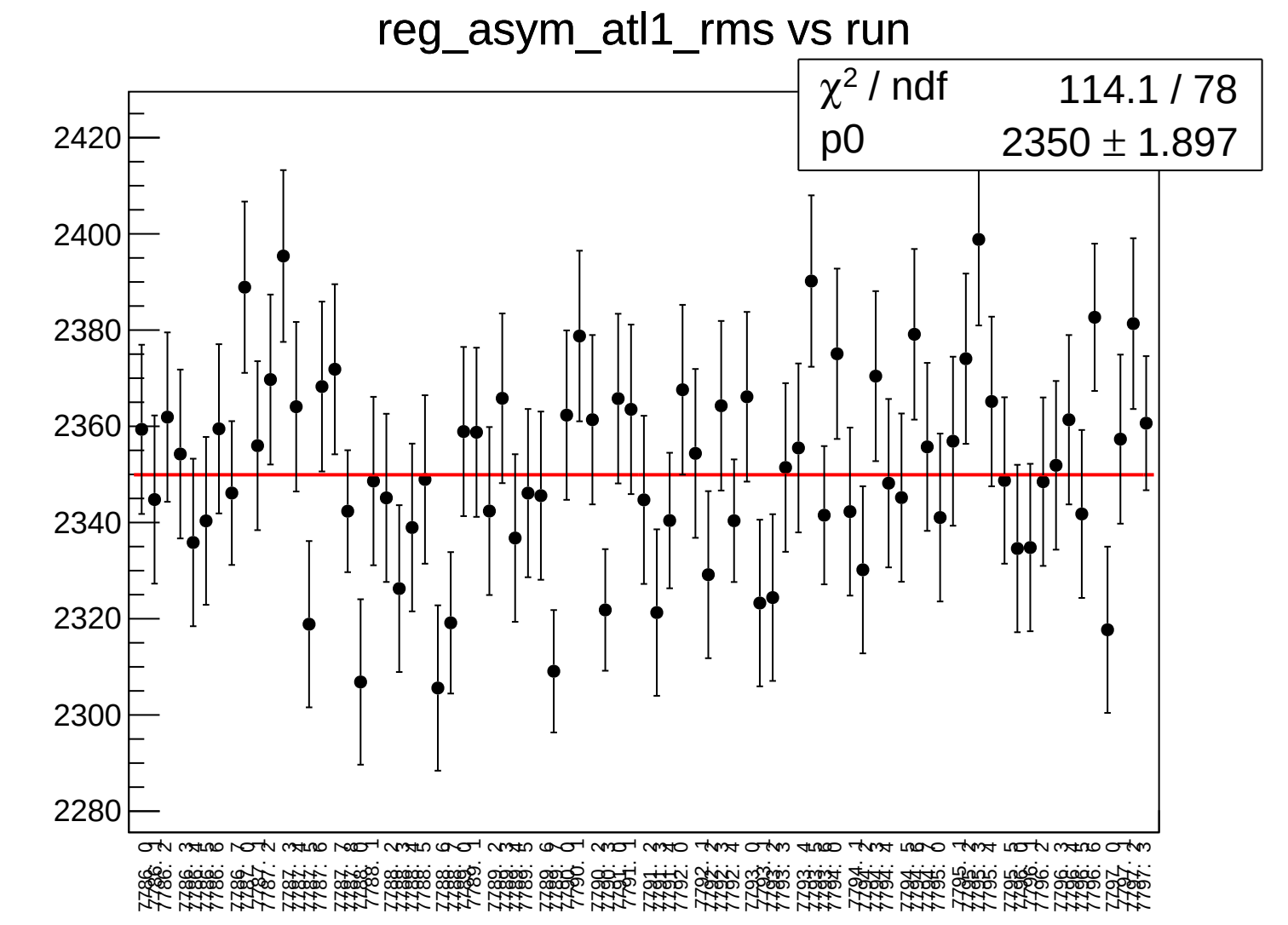

asym_us_agg_dd_mean vs run
χ² / ndf 73.9 / 78
p0 3046 ± 1858
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −134.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

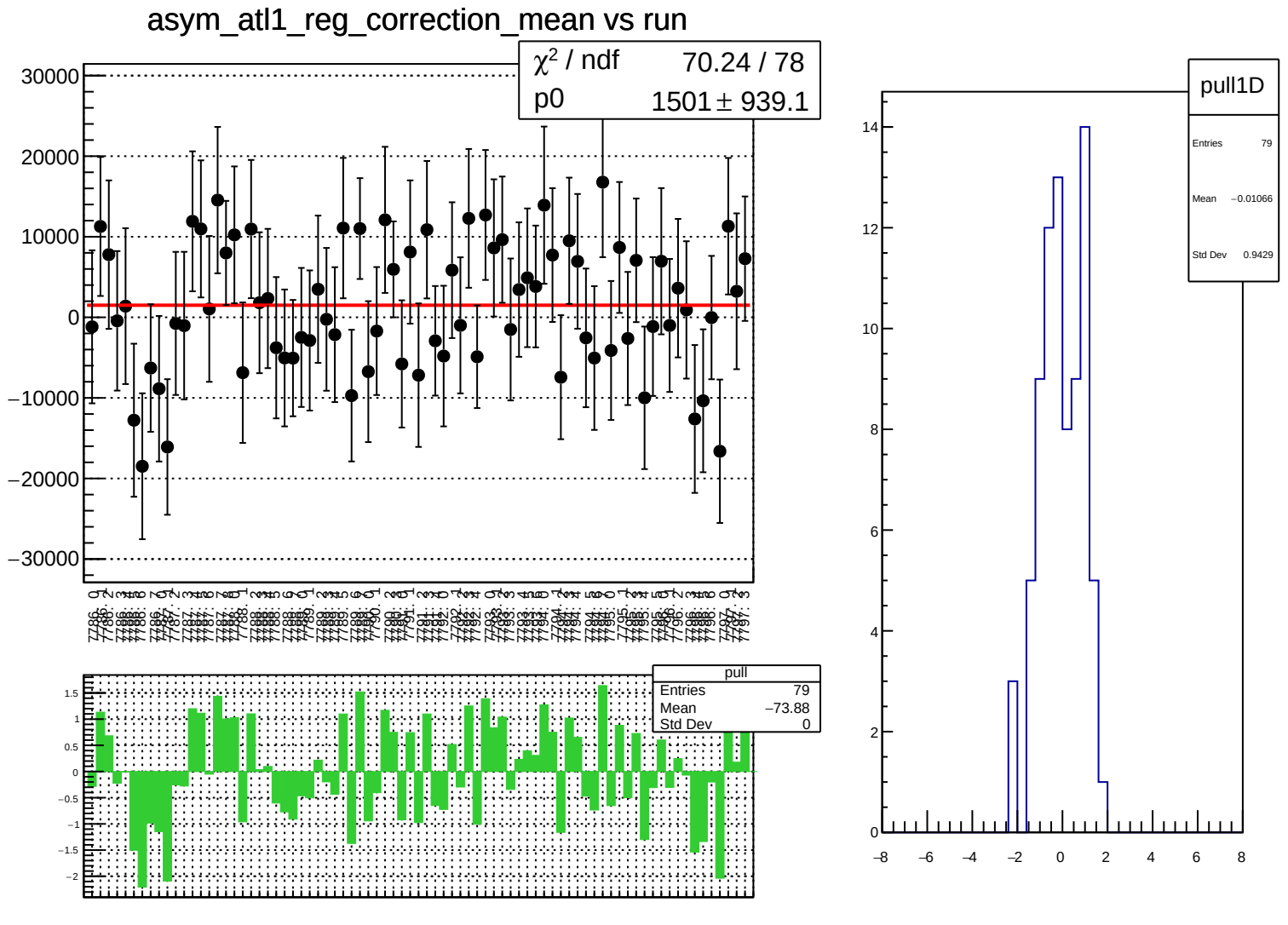

pull1D
Entries 79
Mean −0.01392
Std Dev 0.9671
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

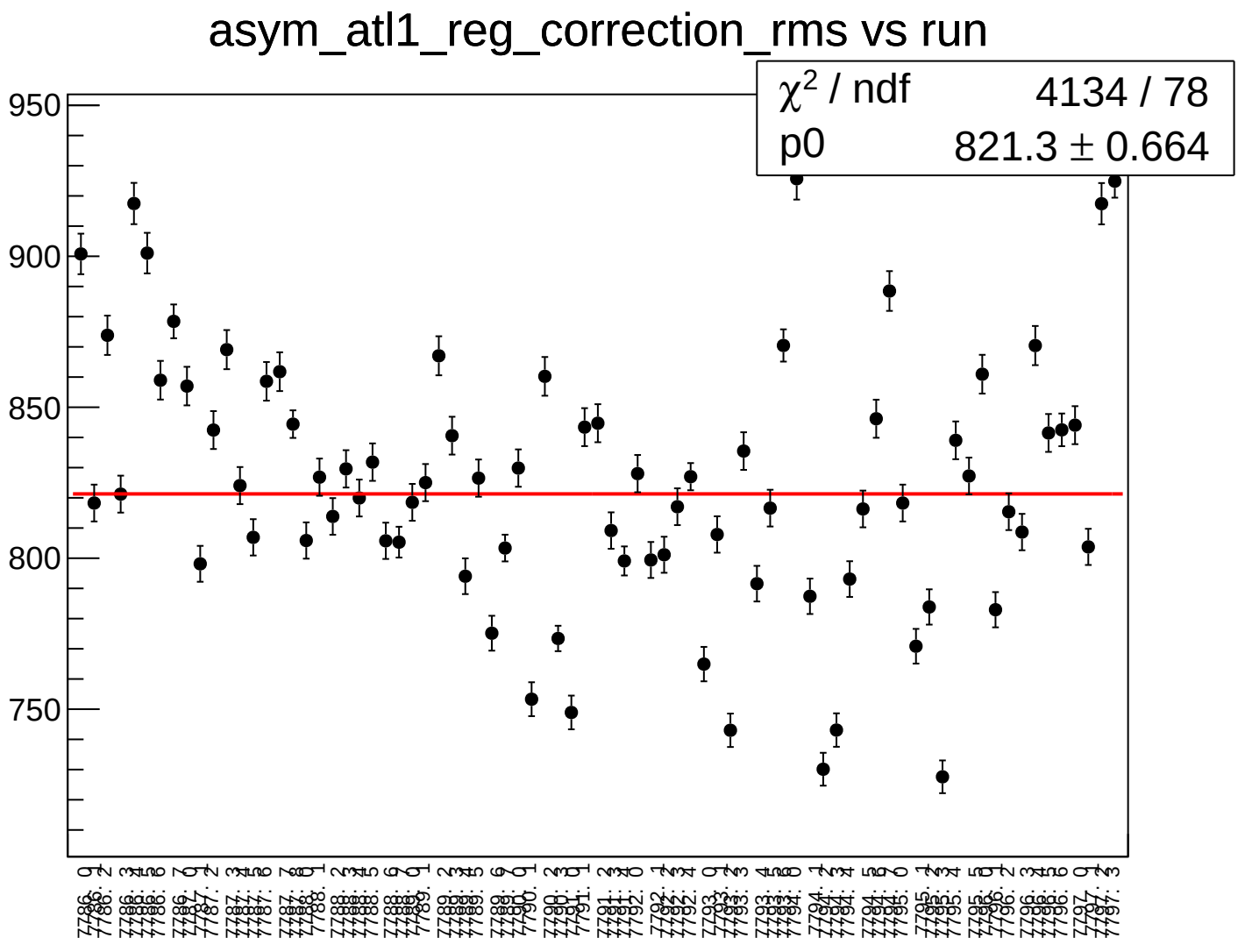

asym_us_agg_dd_rms vs run
χ² / ndf 1515 / 78
p0 1626 ± 1.314
1800
1750
1700
1650
1600
1550
1500

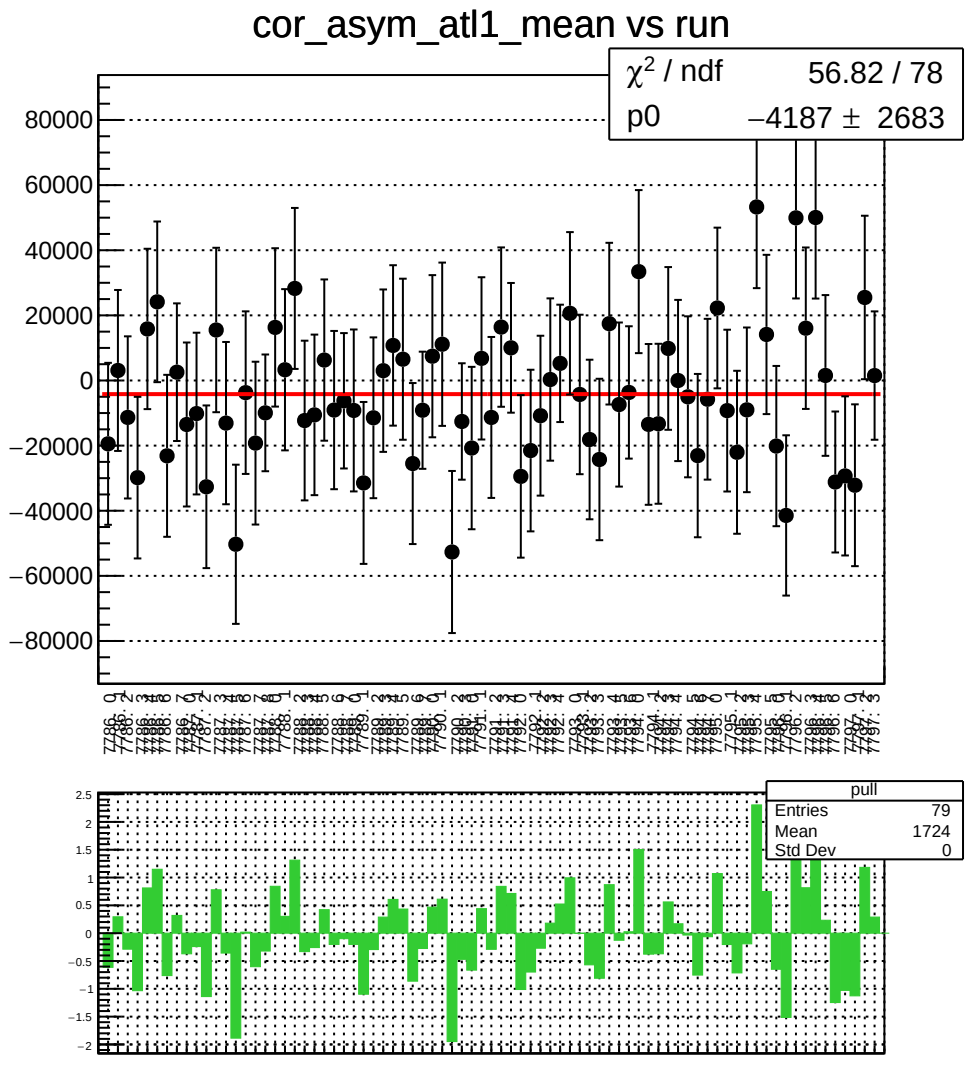

reg_asym_atl1_mean vs run
χ² / ndf 56.82 / 78
p0 −4188 ± 2683
pull
Entries 79
Mean 1724
Std Dev 0

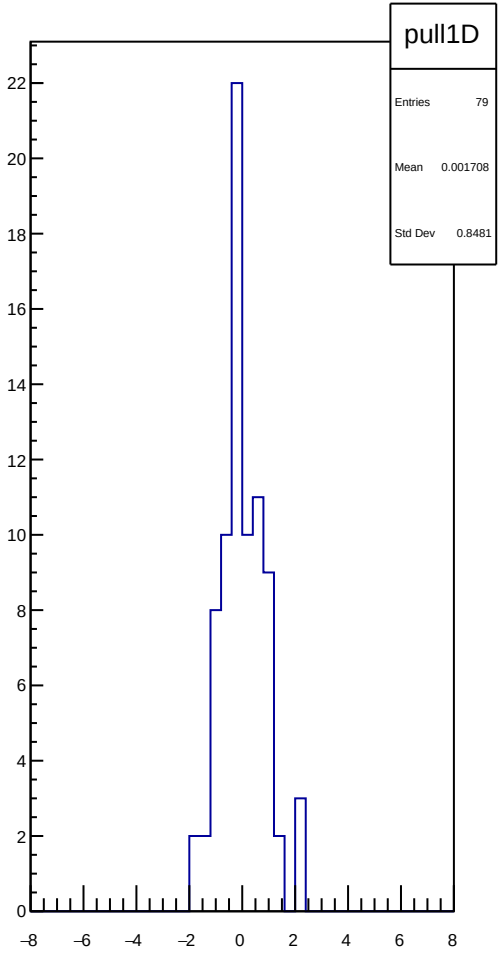

pull1D
Entries 79
Mean 0.001708
Std Dev 0.8481

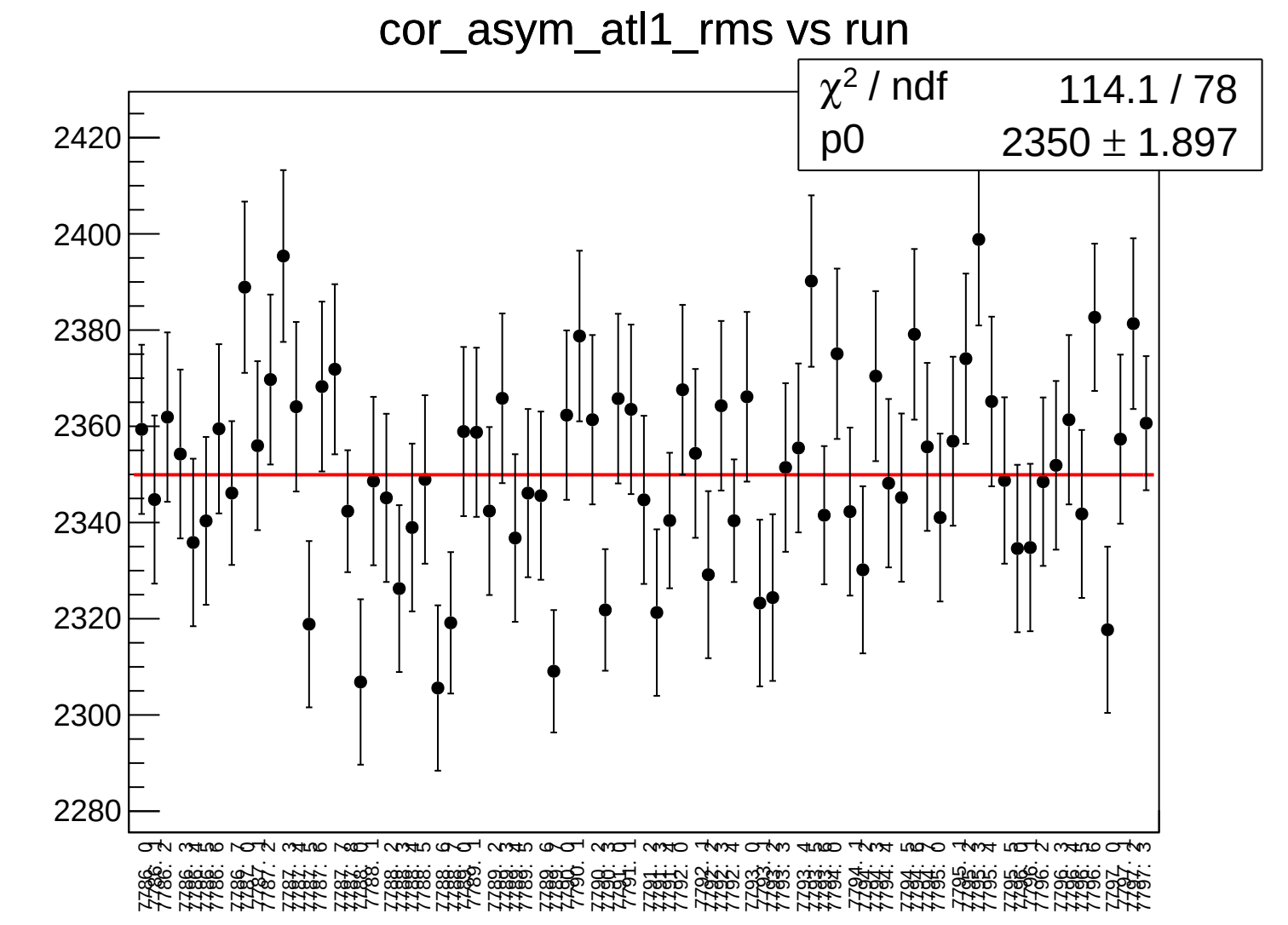

reg_asym_atl1_rms vs run
χ² / ndf 114.1 / 78
p0 2350 ± 1.897
2420
2400
2380
2360
2340
2320
2300
2280

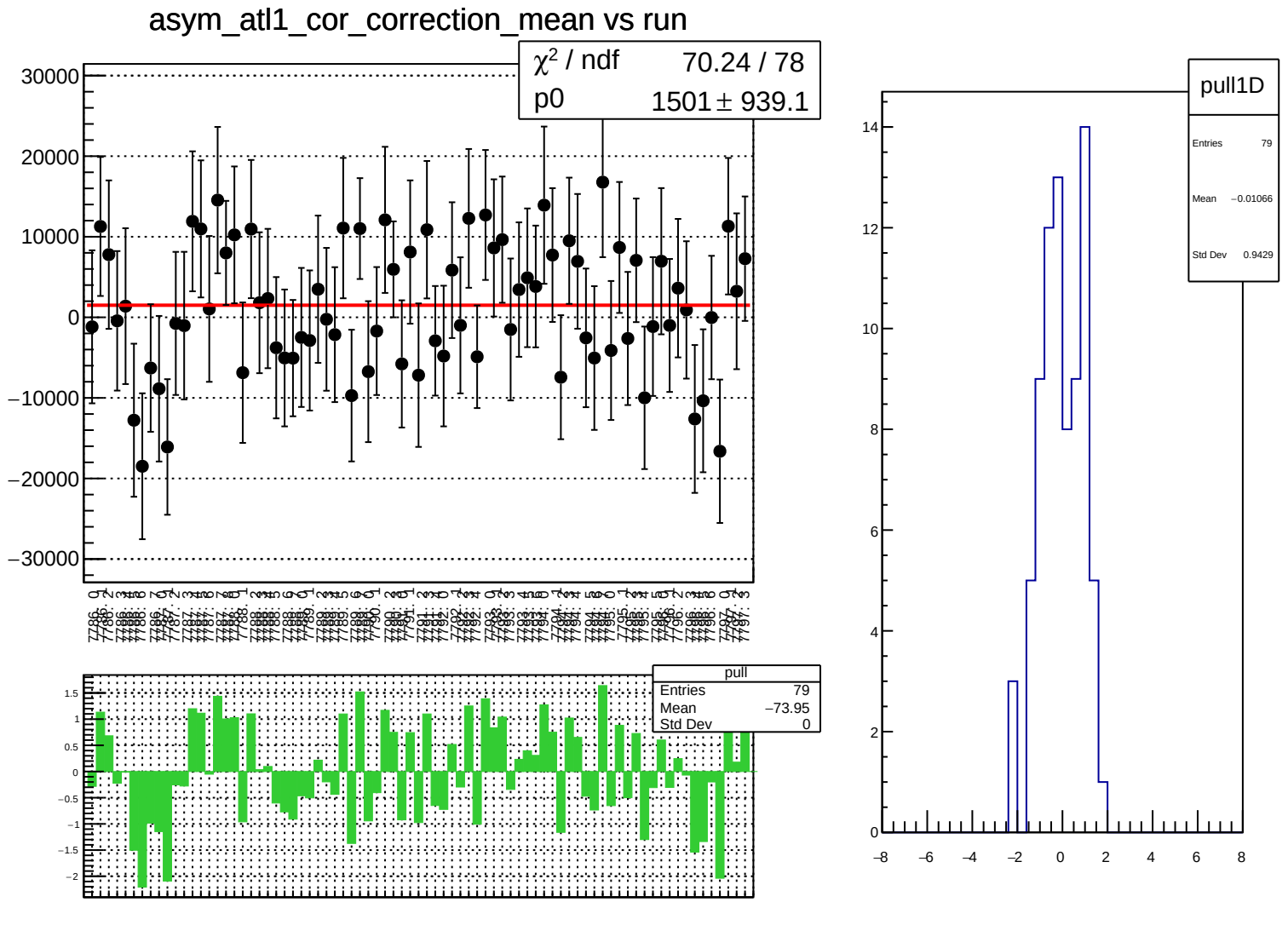

asym_atl1_reg_correction_mean vs run
χ² / ndf 70.24 / 78
p0 1501 ± 939.1
pull
Entries 79
Mean −73.88
Std Dev 0
pull1D
Entries 79
Mean −0.01066
Std Dev 0.9429

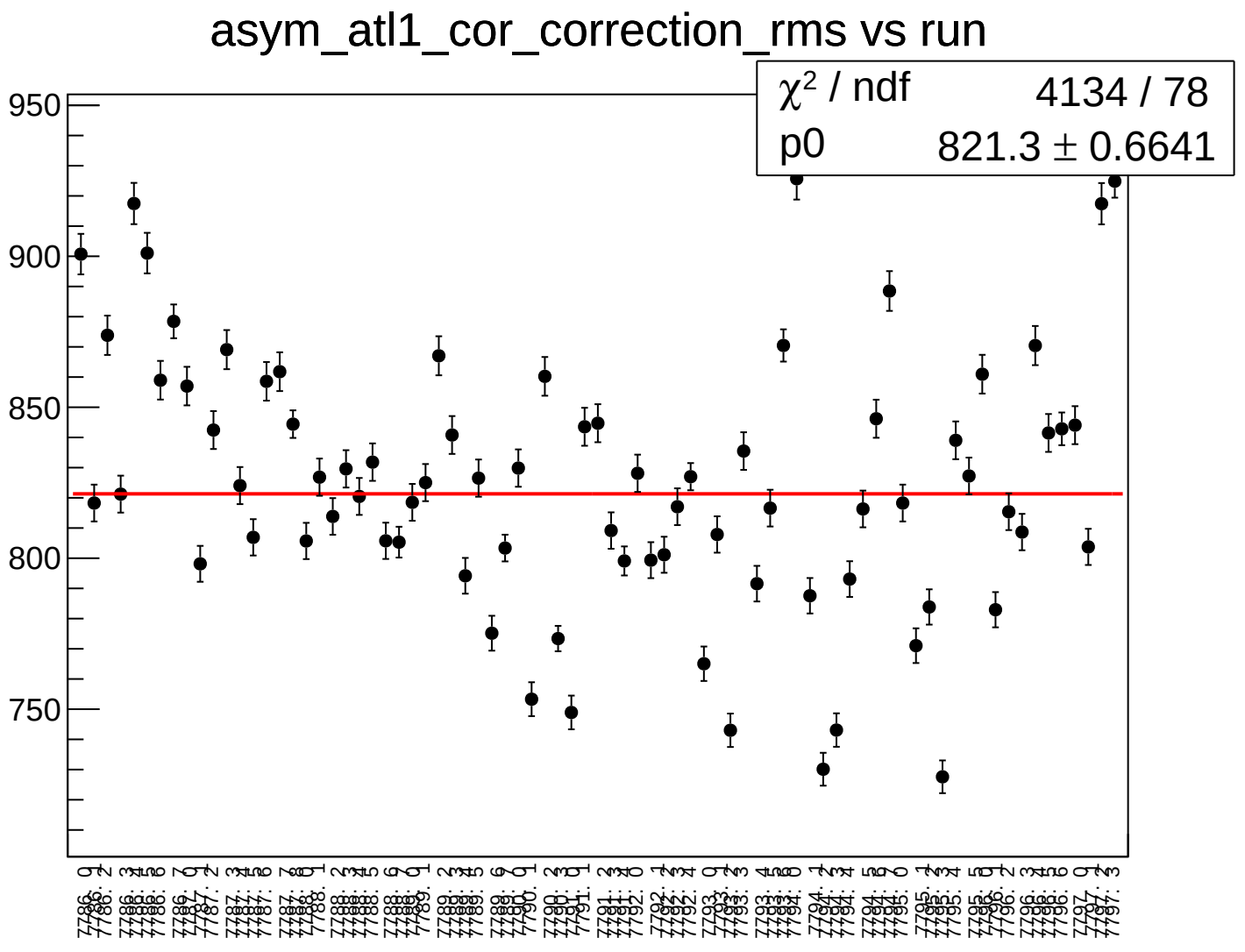

asym_atl1_reg_correction_rms vs run
χ² / ndf 4134 / 78
p0 821.3 ± 0.664
950
900
850
800
750

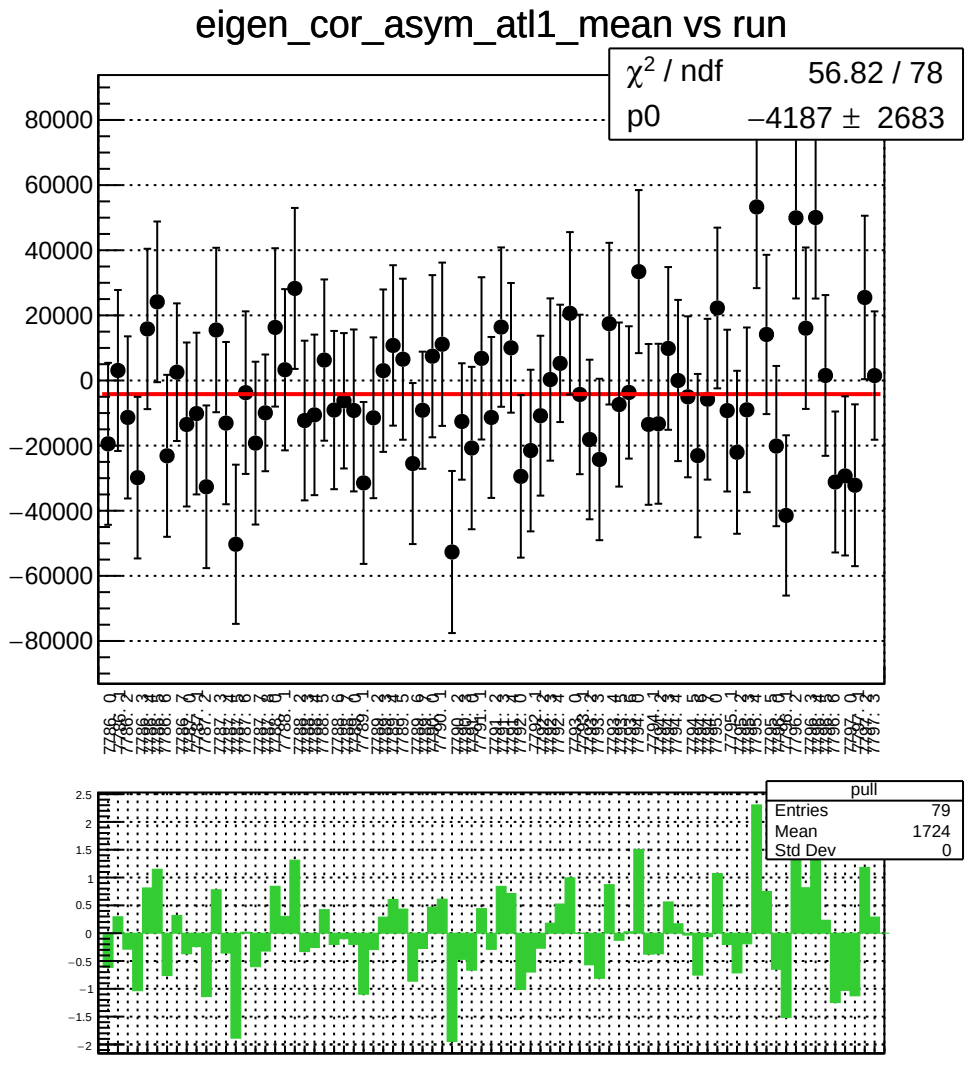

cor_asym_atl1_mean vs run
χ² / ndf 56.82 / 78
p0 −4187 ± 2683
pull
Entries 79
Mean 1724
Std Dev 0

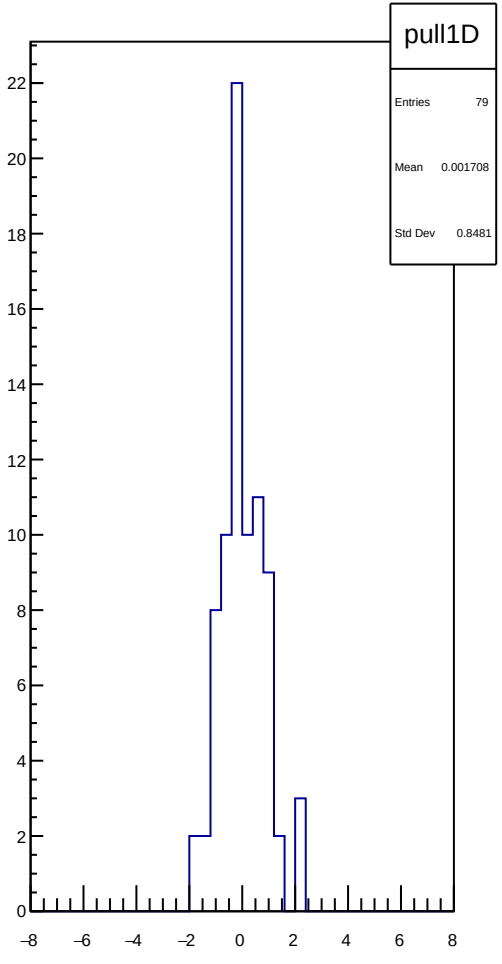

pull1D
Entries 79
Mean 0.001708
Std Dev 0.8481

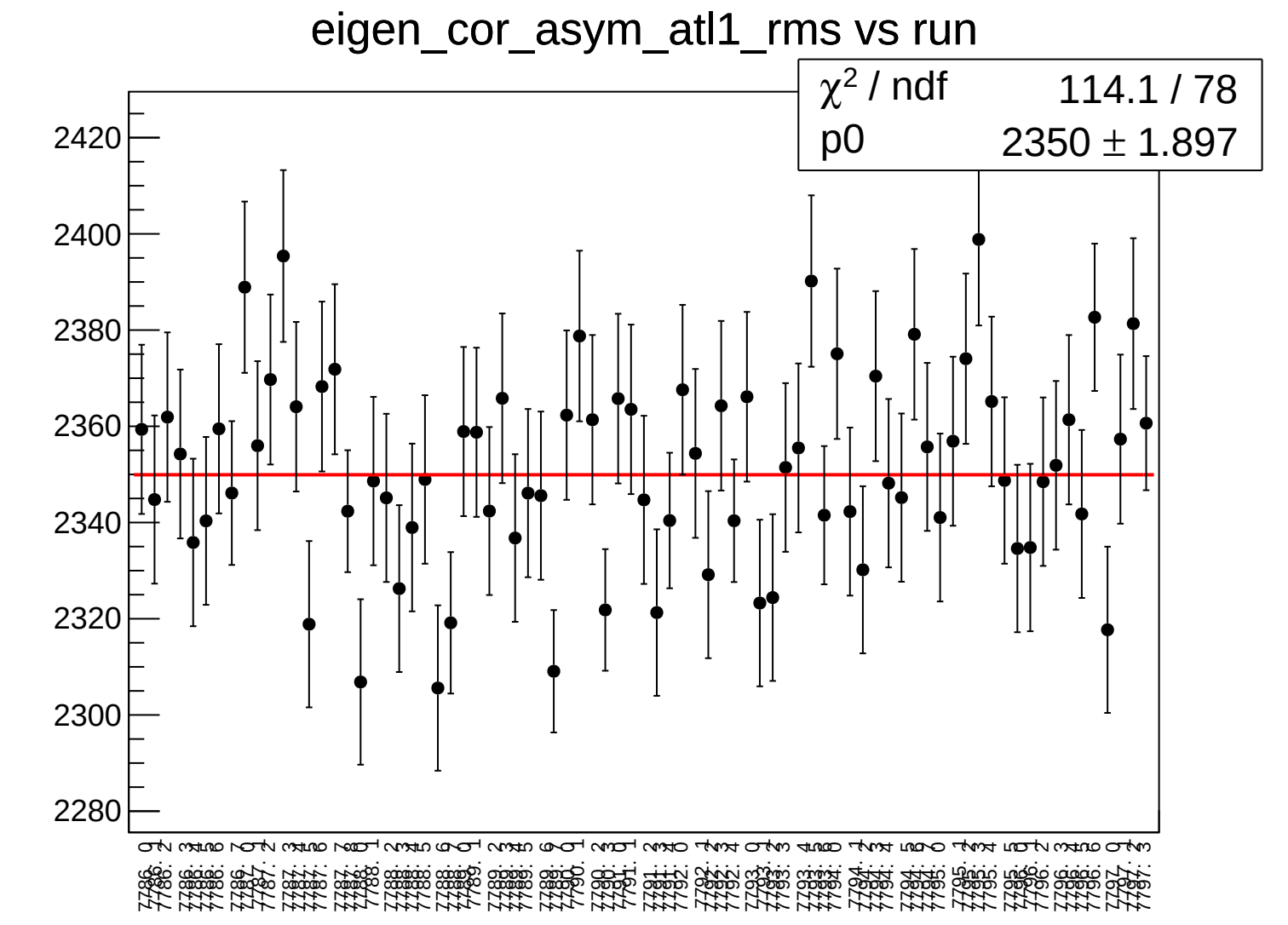

cor_asym_atl1_rms vs run
χ² / ndf 114.1 / 78
p0 2350 ± 1.897
2420
2400
2380
2360
2340
2320
2300
2280

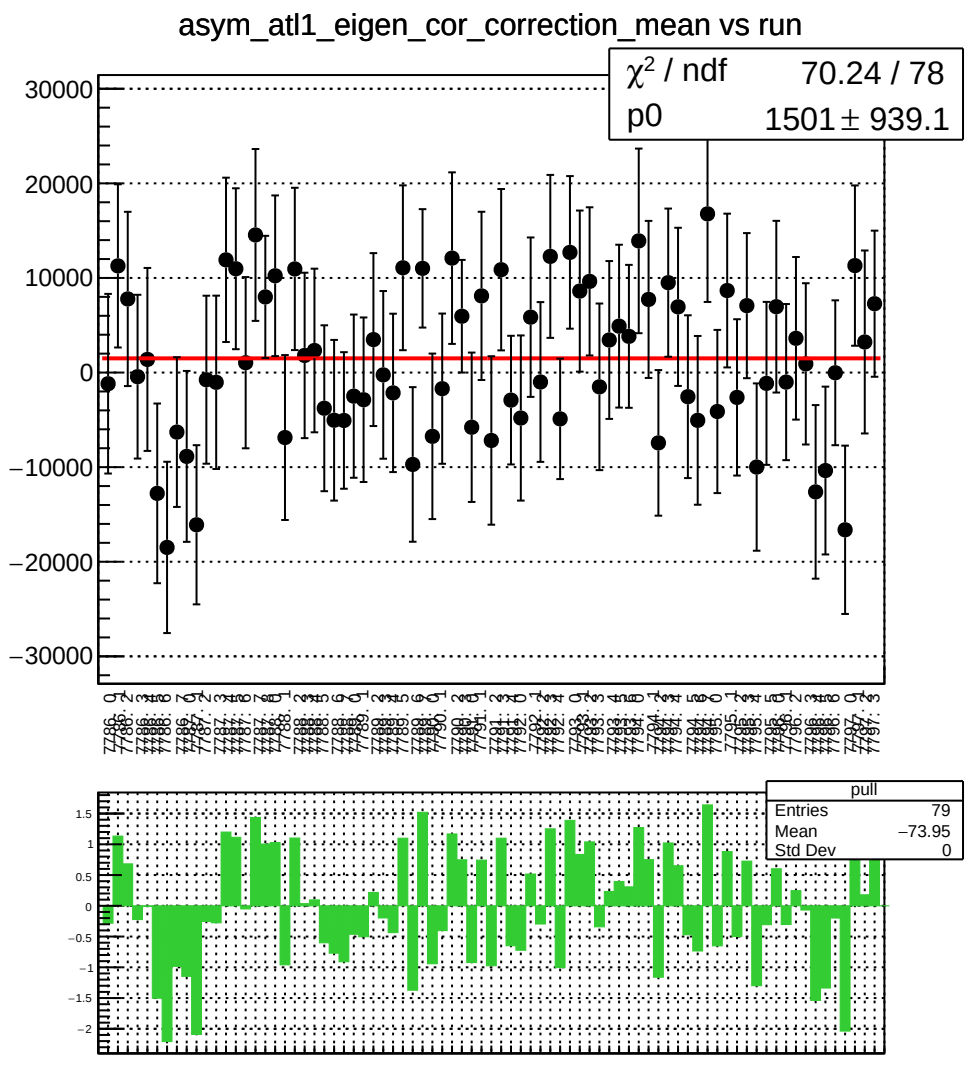

asym_atl1_cor_correction_mean vs run
χ² / ndf 70.24 / 78
p0 1501 ± 939.1
pull
Entries 79
Mean −73.95
Std Dev 0
pull1D
Entries 79
Mean −0.01066
Std Dev 0.9429

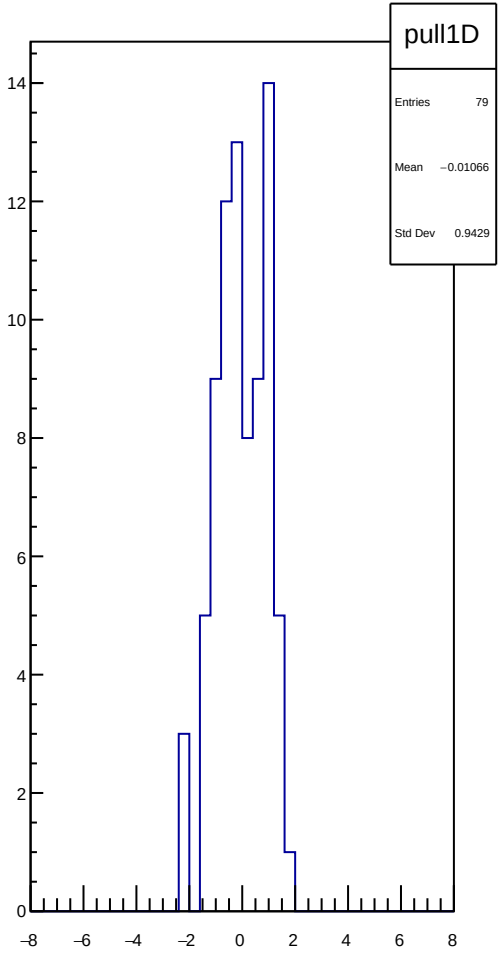

asym_atl1_cor_correction_rms vs run
χ² / ndf 4134 / 78
p0 821.3 ± 0.6641
950
900
850
800
750

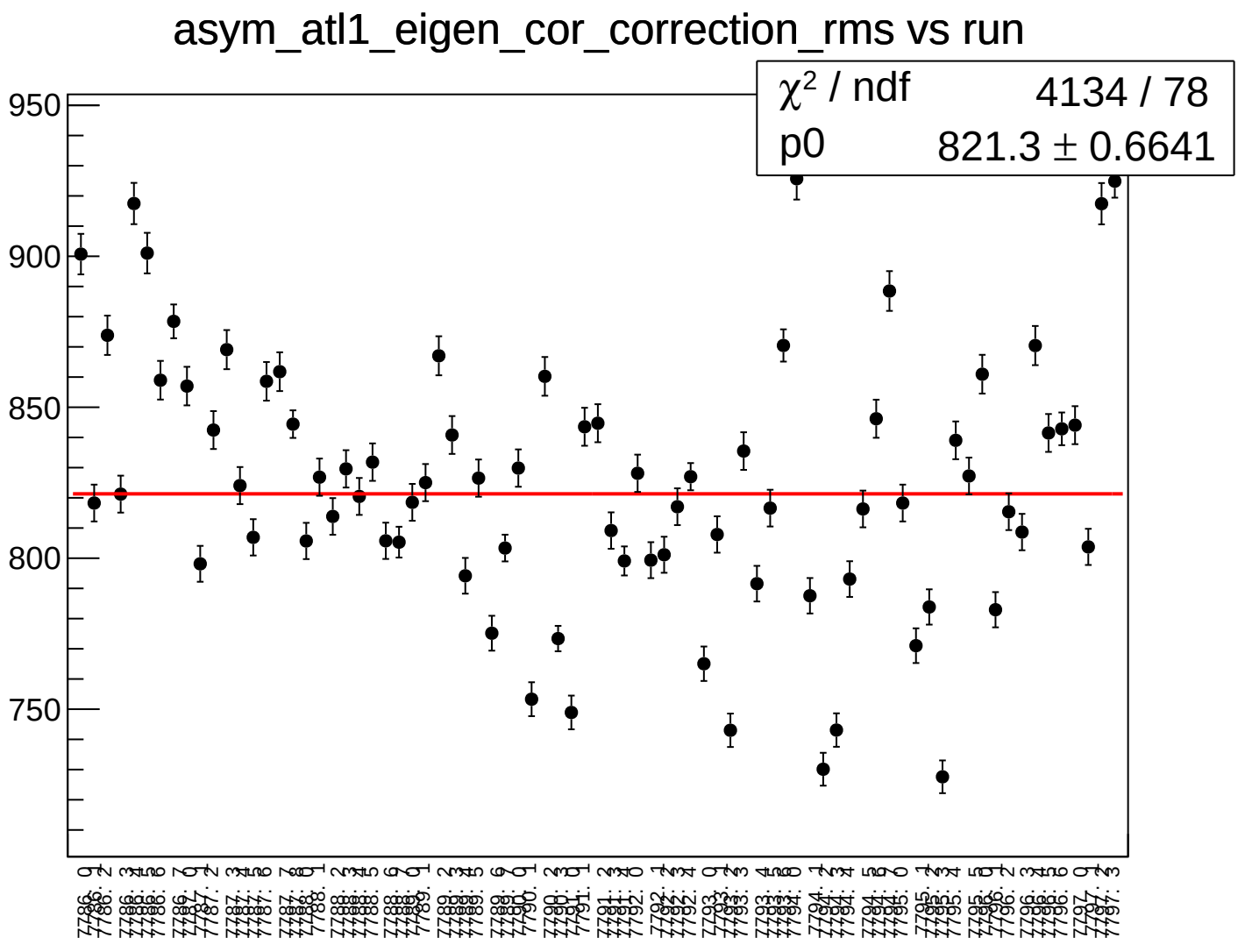

eigen_cor_asym_atl1_mean vs run
χ² / ndf 56.82 / 78
p0 −4187 ± 2683
pull
Entries 79
Mean 1724
Std Dev 0

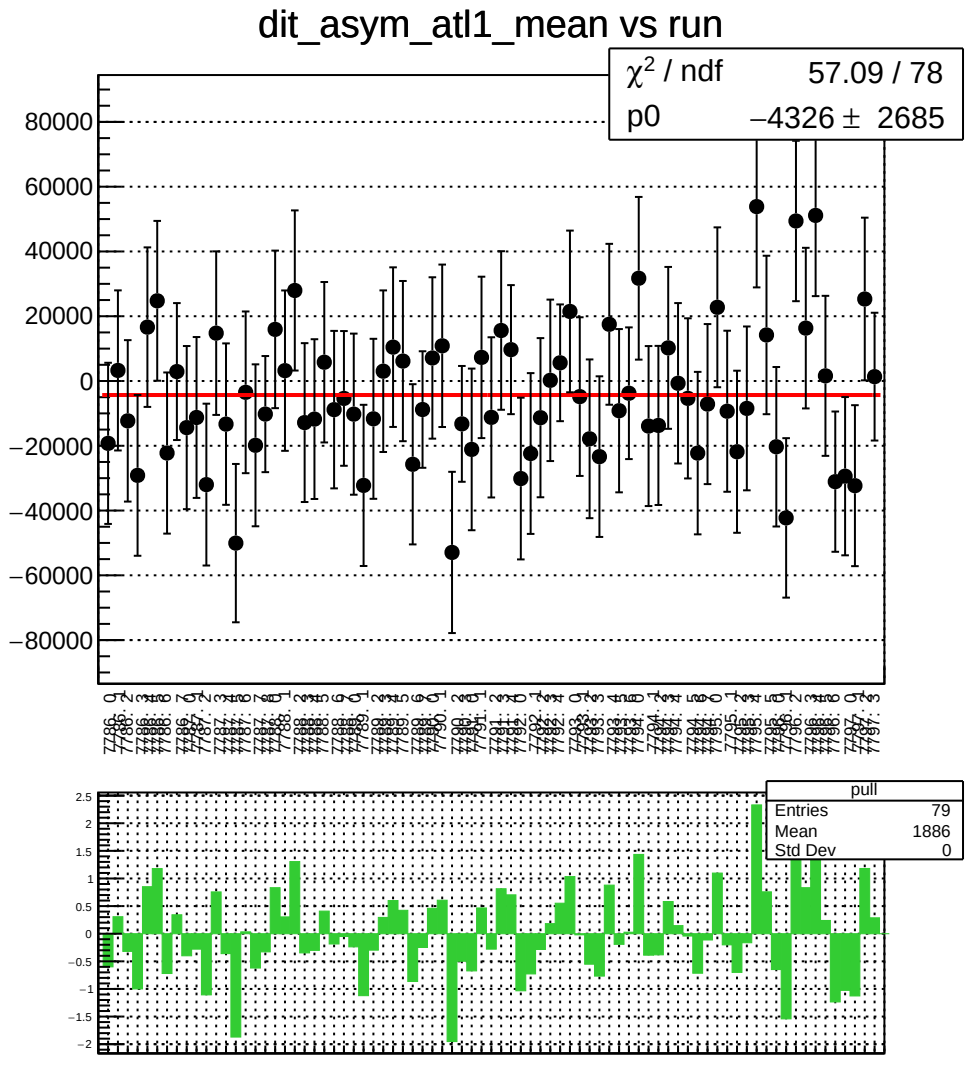

pull1D
Entries 79
Mean 0.001708
Std Dev 0.8481

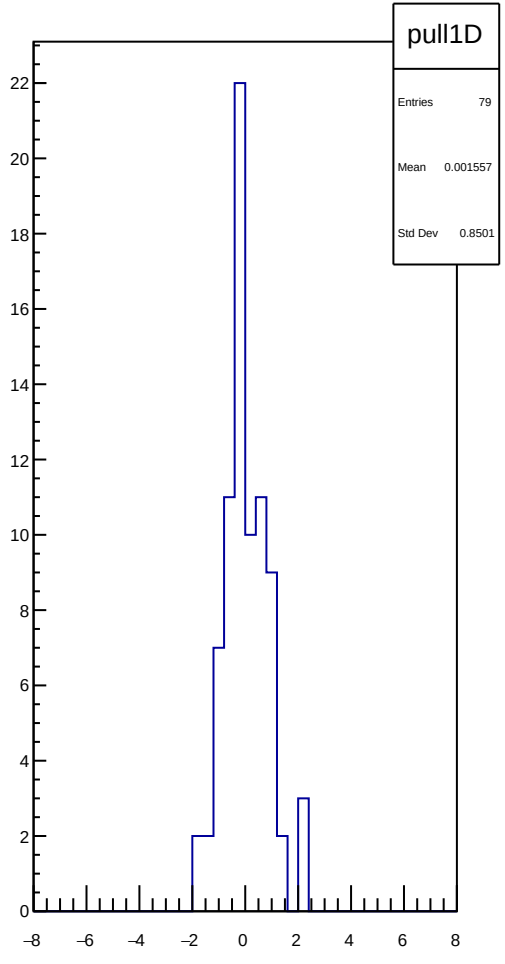

eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 114.1 / 78
p0 2350 ± 1.897
2420
2400
2380
2360
2340
2320
2300
2280

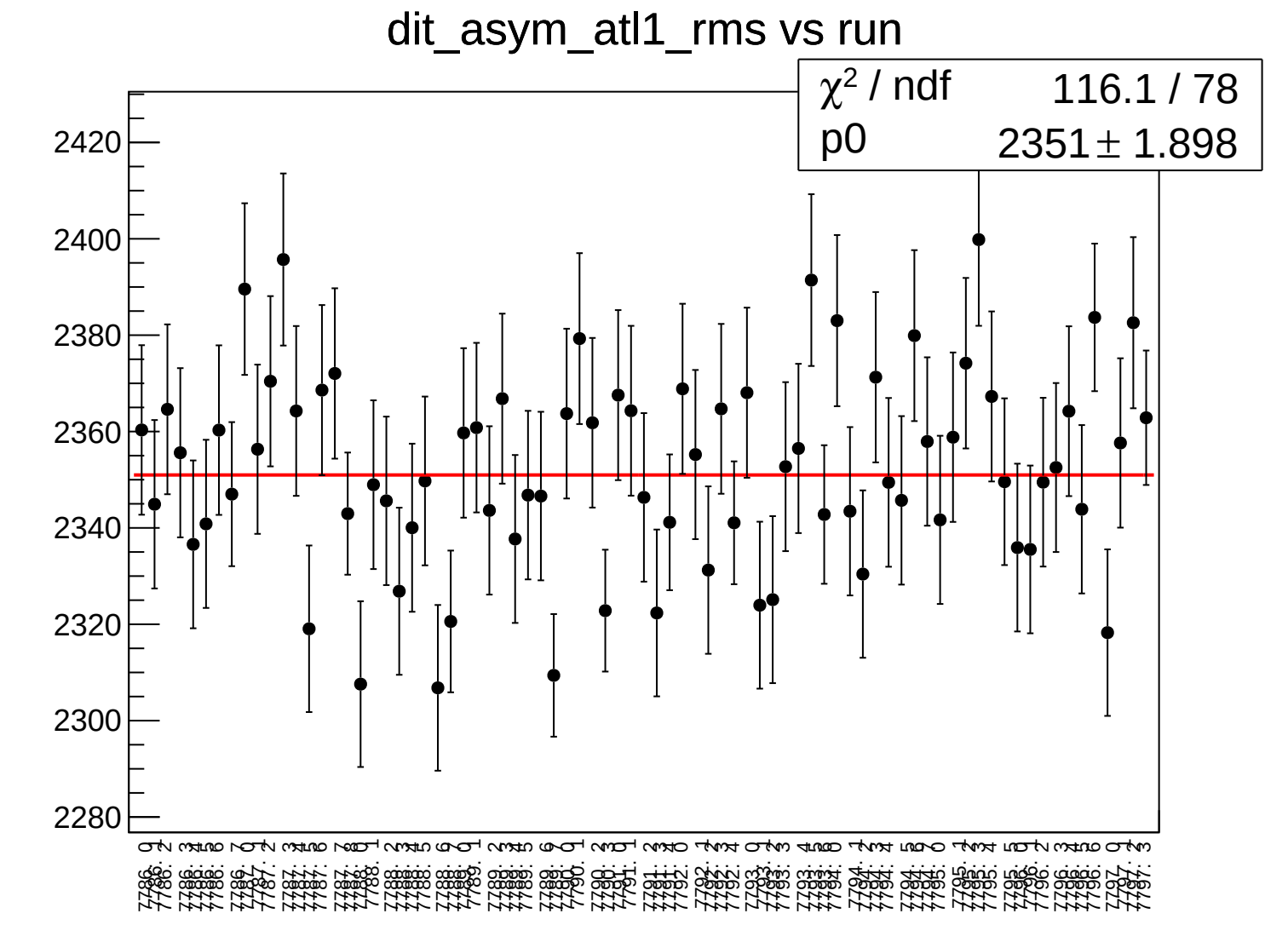

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 70.24 / 78
p0 1501 ± 939.1
pull
Entries 79
Mean −73.95
Std Dev 0

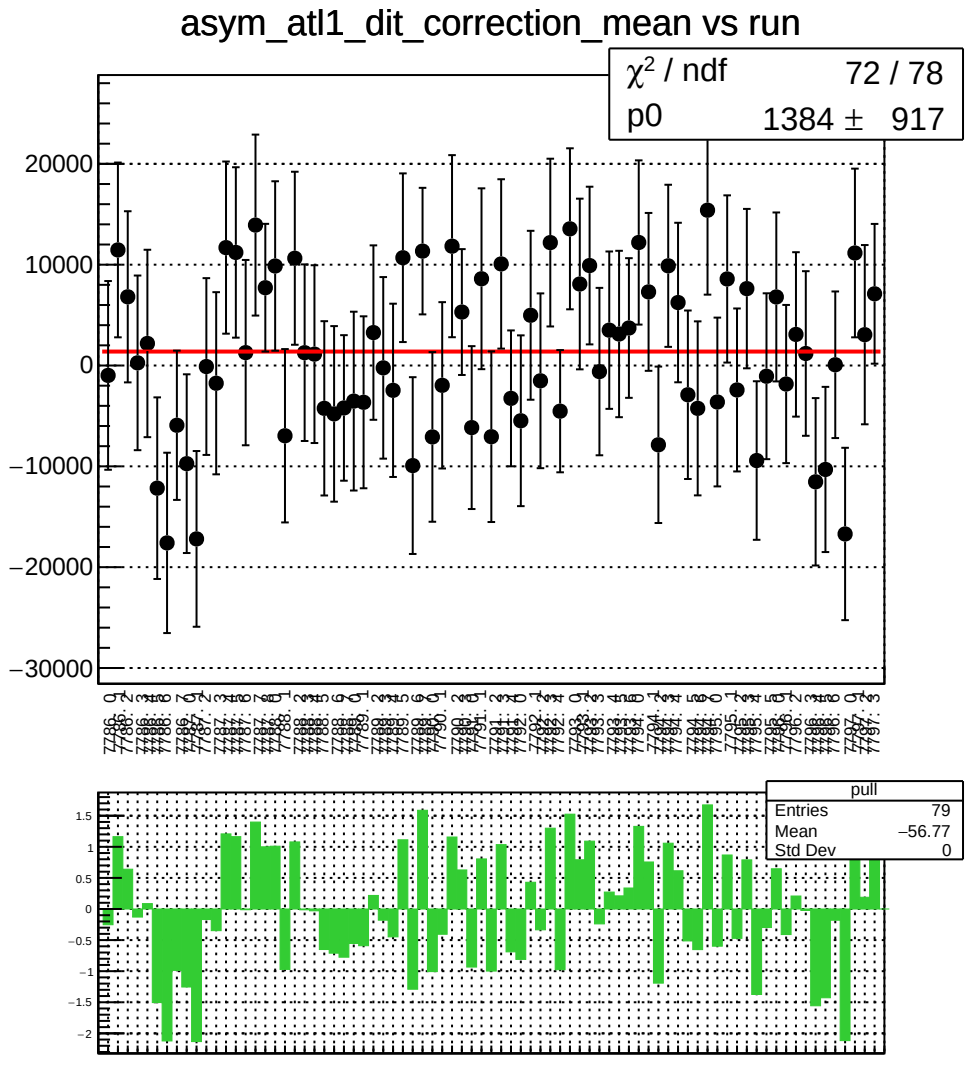

pull1D
Entries 79
Mean −0.01066
Std Dev 0.9429

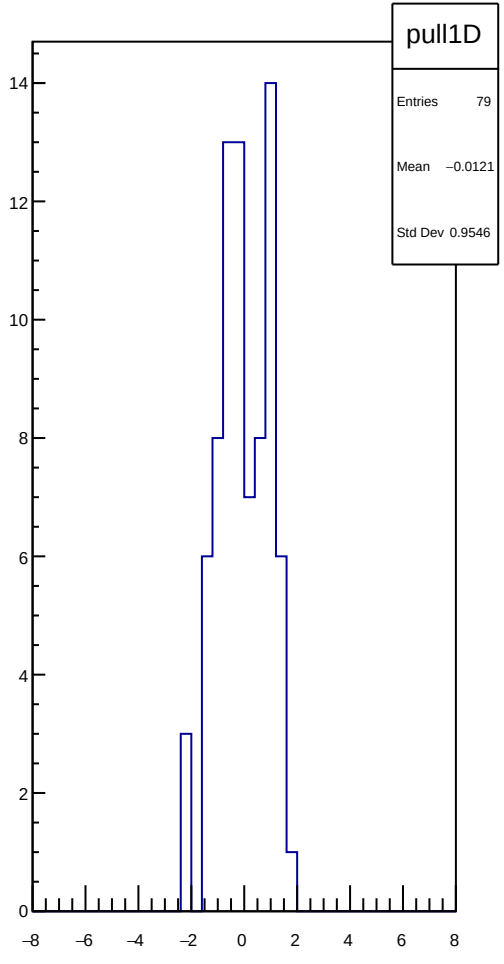

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 4134 / 78
p0 821.3 ± 0.6641
950
900
850
800
750

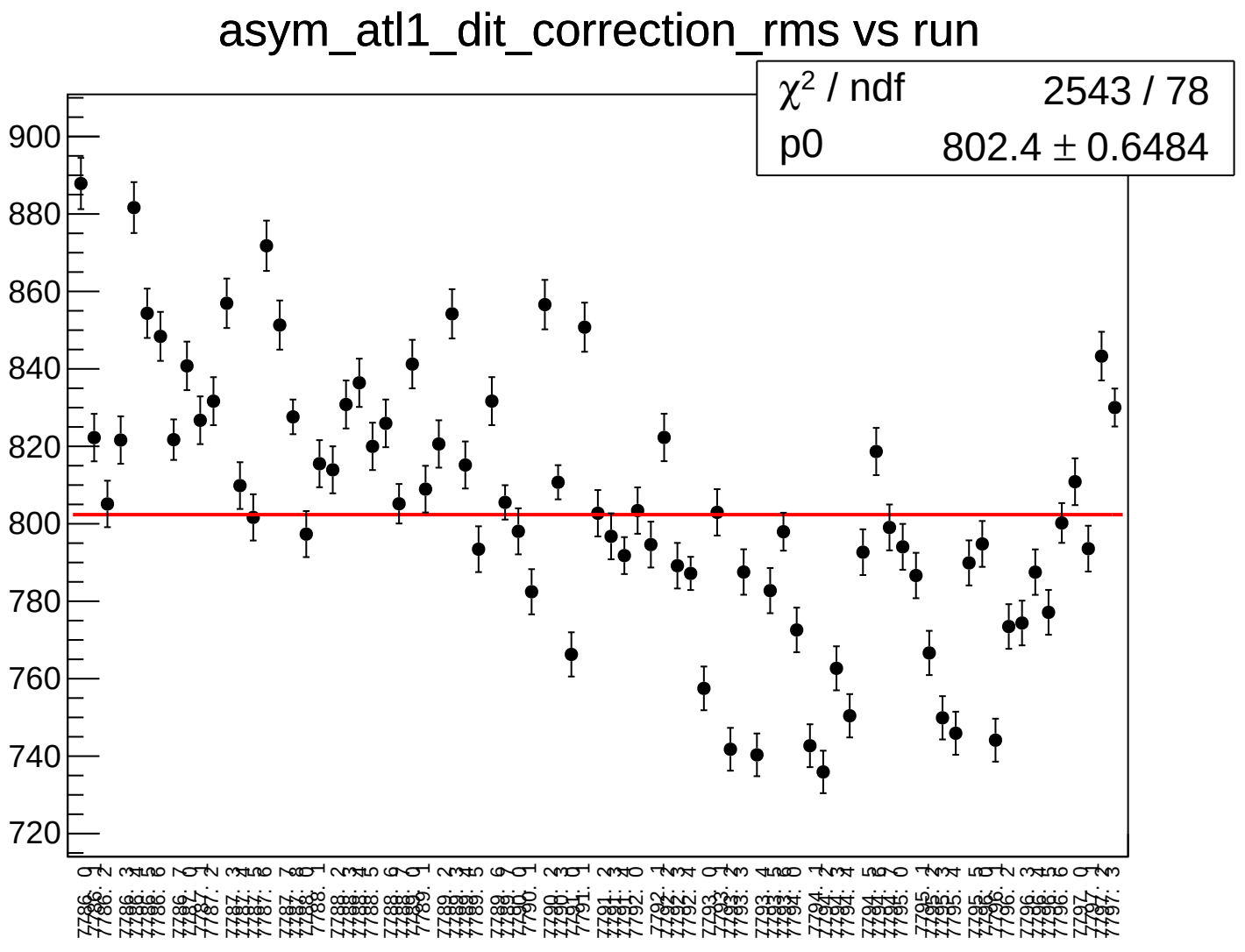

dit_asym_atl1_mean vs run
χ² / ndf 57.09 / 78
p0 −4326 ± 2685
pull
Entries 79
Mean 1886
Std Dev 0

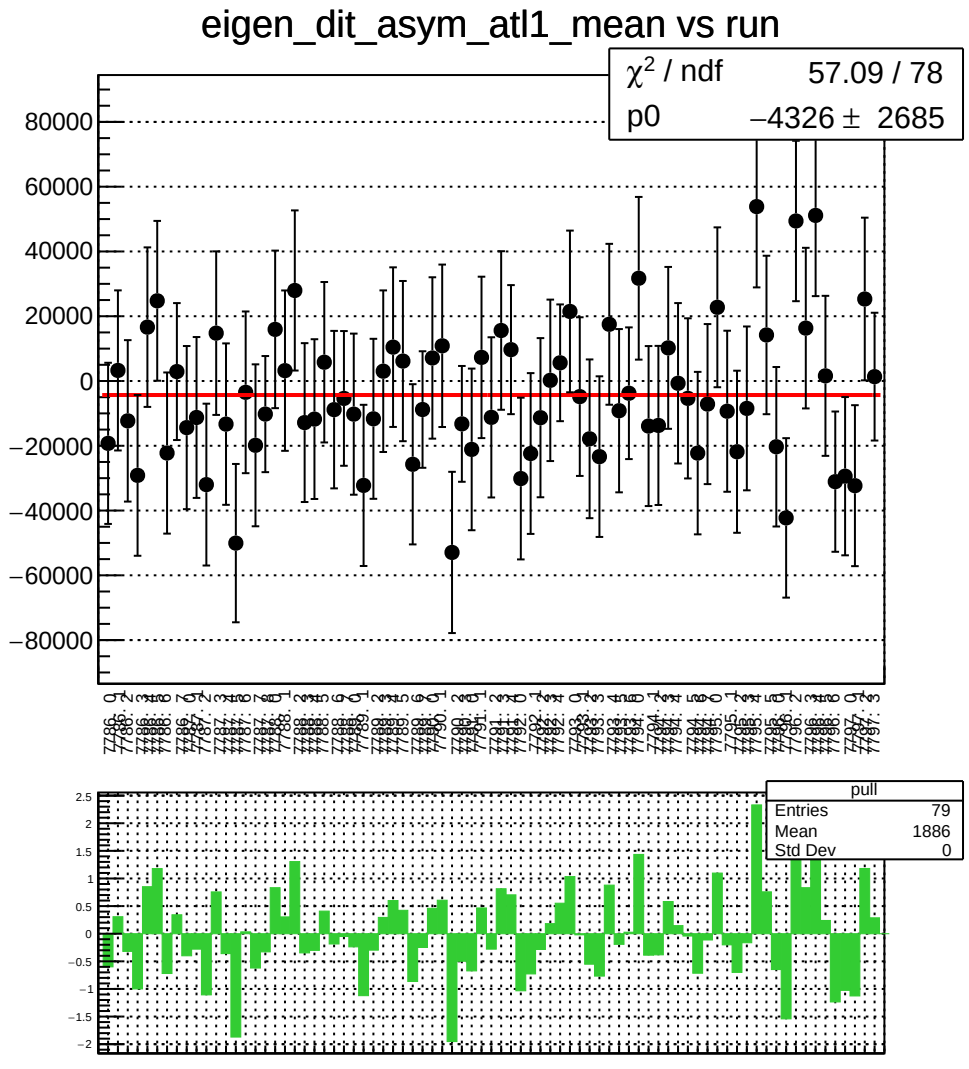

pull1D
Entries 79
Mean 0.001557
Std Dev 0.8501

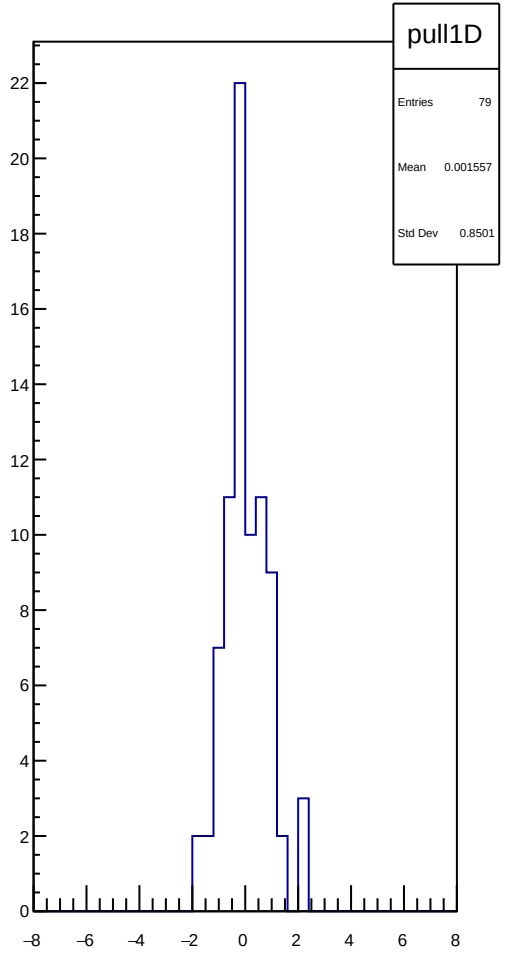

dit_asym_atl1_rms vs run
χ^2 / ndf 116.1 / 78
p0 2351 ± 1.898
2420
2400
2380
2360
2340
2320
2300
2280

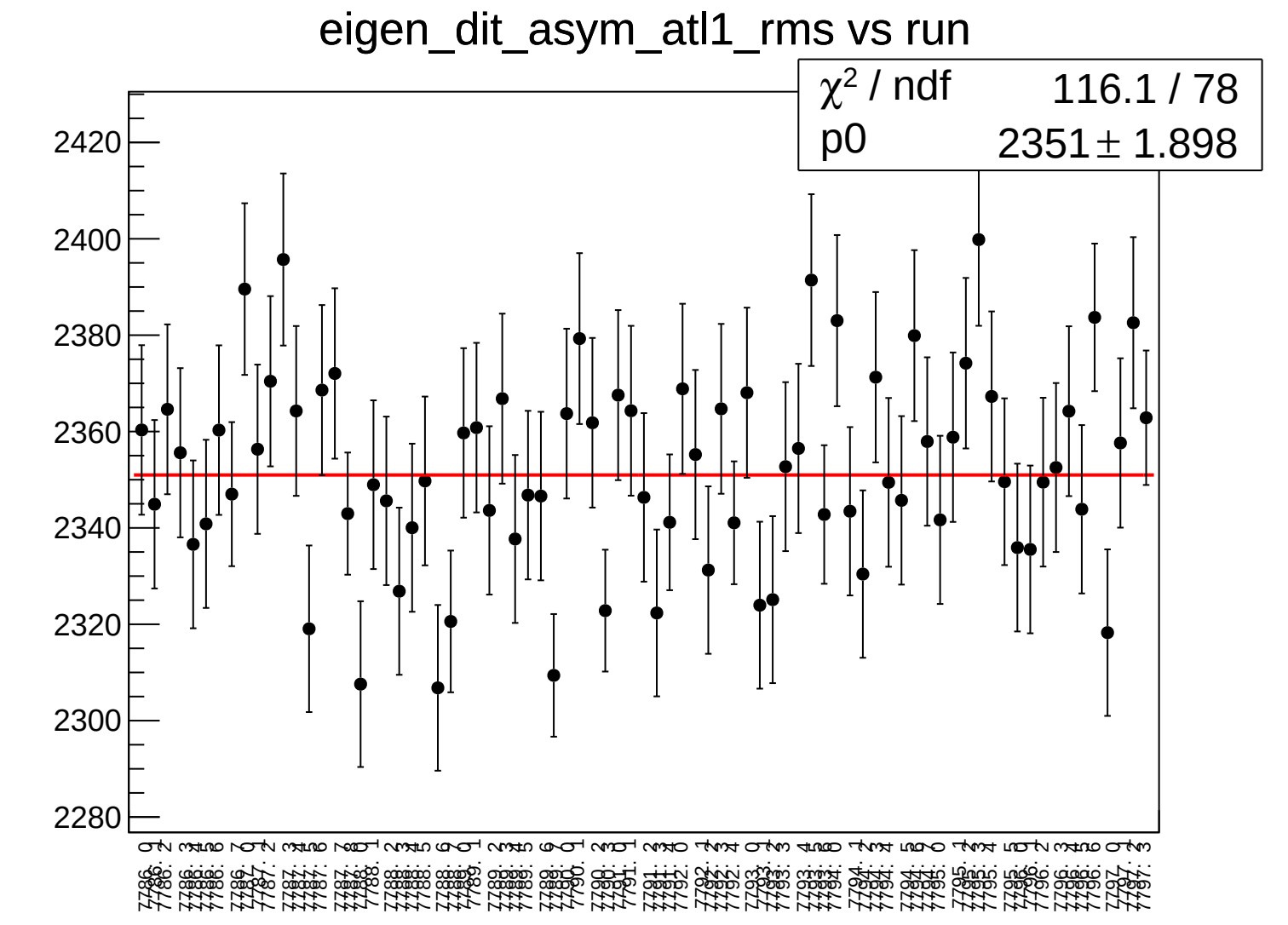

asym_atl1_dit_correction_mean vs run
χ² / ndf 72 / 78
p0 1384 ± 917
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −56.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

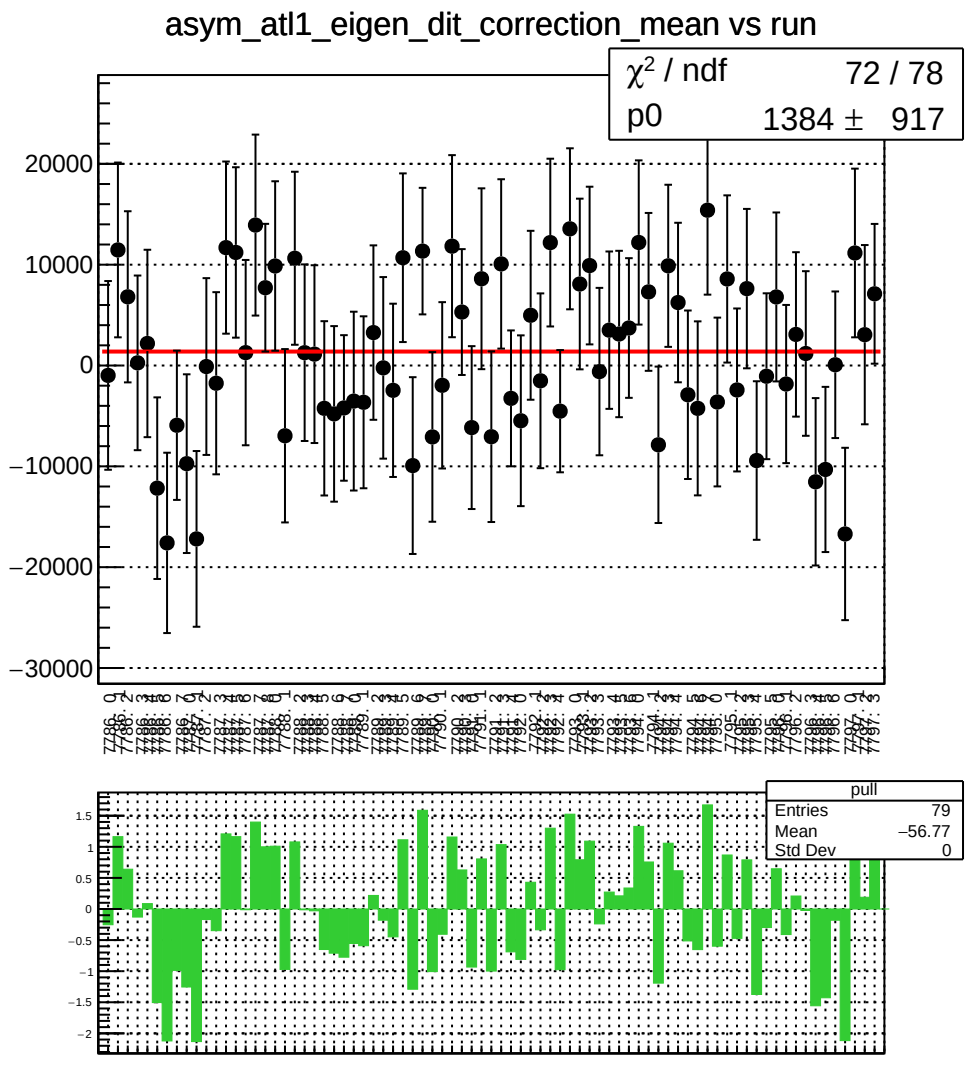

pull1D
Entries 79
Mean −0.0121
Std Dev 0.9546
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

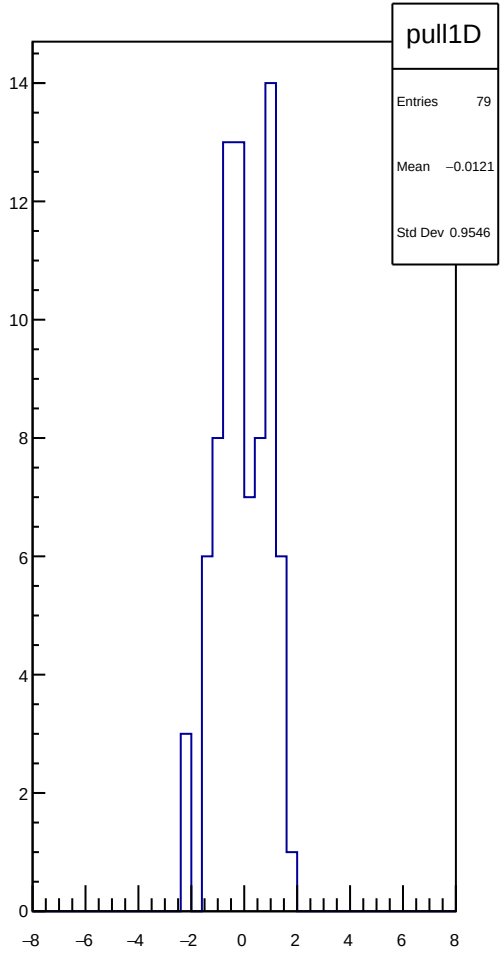

asym_atl1_dit_correction_rms vs run
χ² / ndf 2543 / 78
p0 802.4 ± 0.6484
900
880
860
840
820
800
780
760
740
720

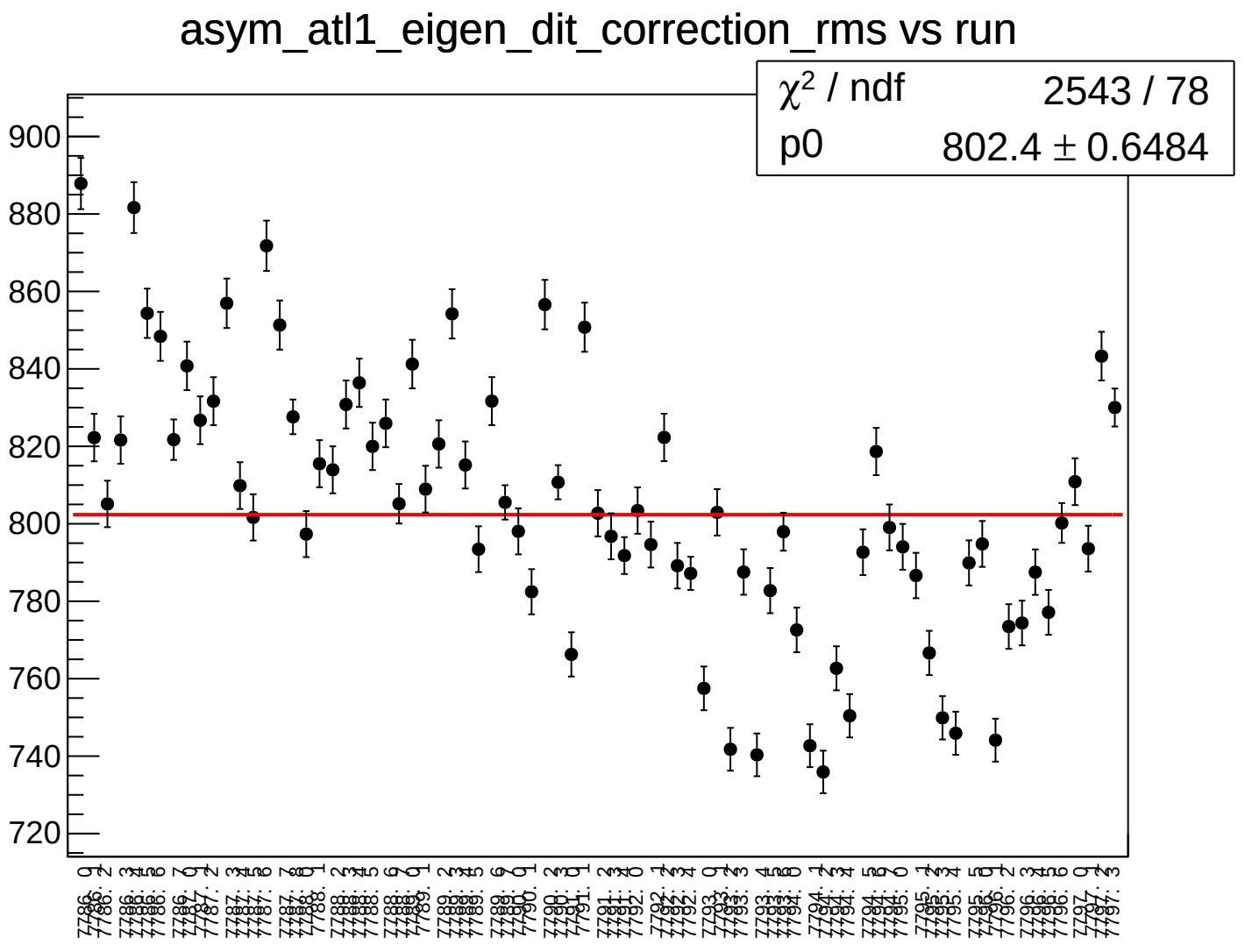

eigen_dit_asym_atl1_mean vs run
χ² / ndf 57.09 / 78
p0 −4326 ± 2685
pull
Entries 79
Mean 1886
Std Dev 0

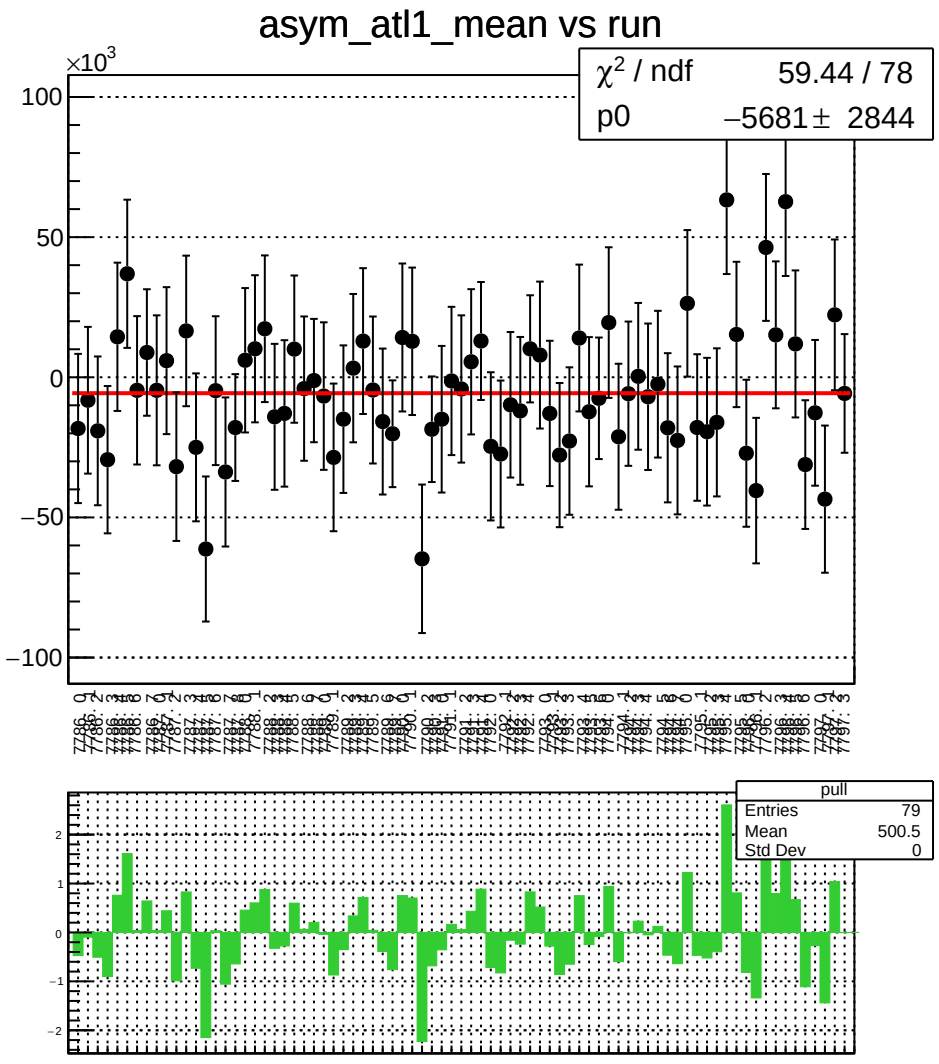

pull1D
Entries 79
Mean 0.001557
Std Dev 0.8501

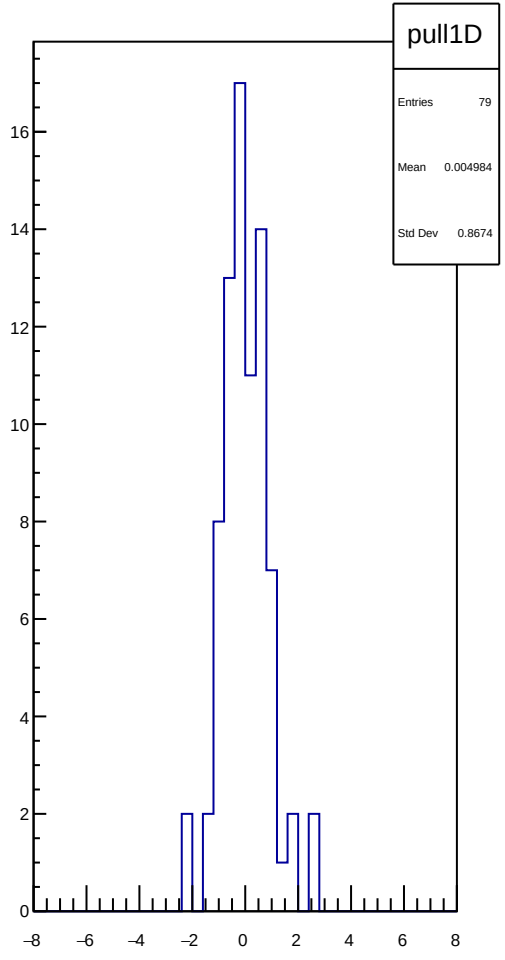

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 116.1 / 78
p0 2351 ± 1.898
2420
2400
2380
2360
2340
2320
2300
2280

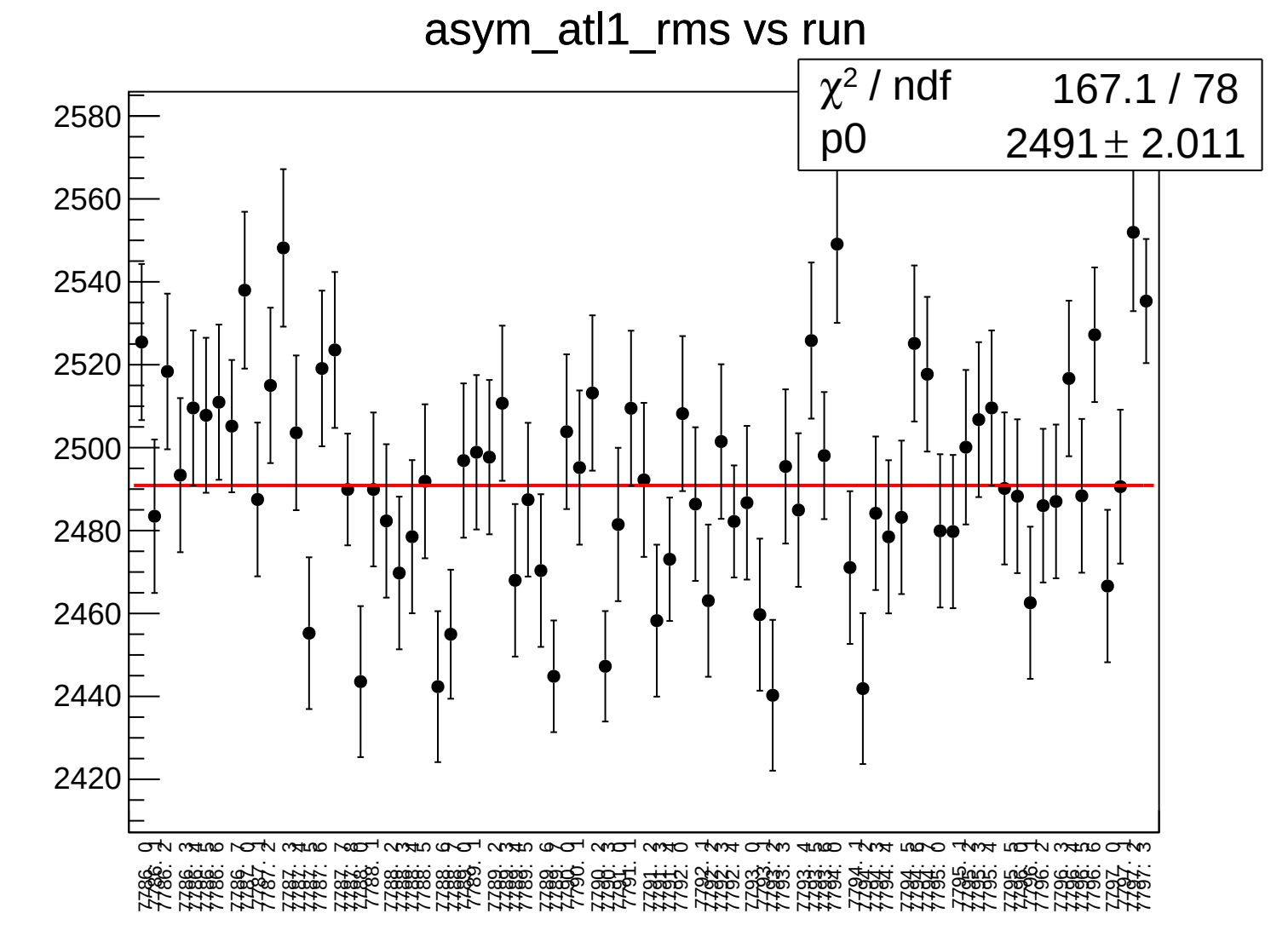

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 72 / 78
p0 1384 ± 917
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −56.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

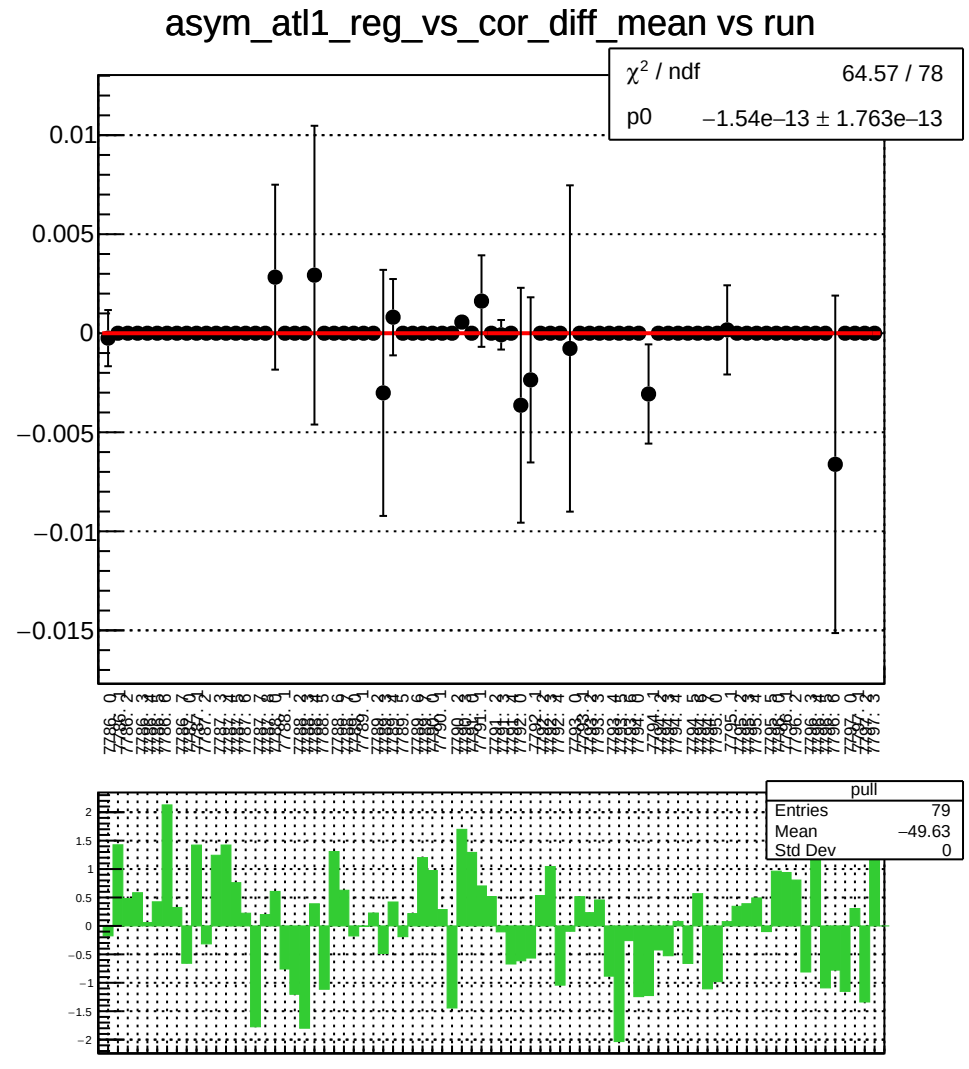

pull1D
Entries 79
Mean −0.0121
Std Dev 0.9546
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

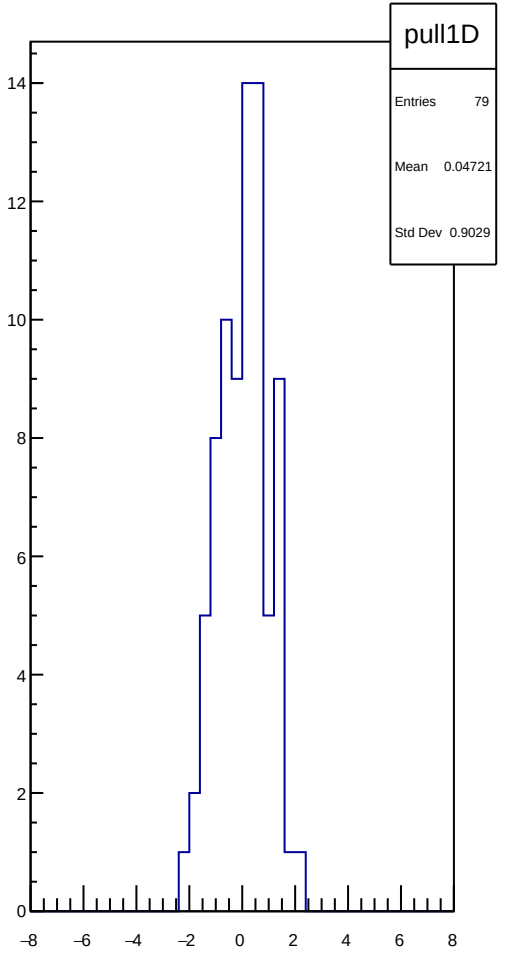

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 2543 / 78
p0 802.4 ± 0.6484
900
880
860
840
820
800
780
760
740
720

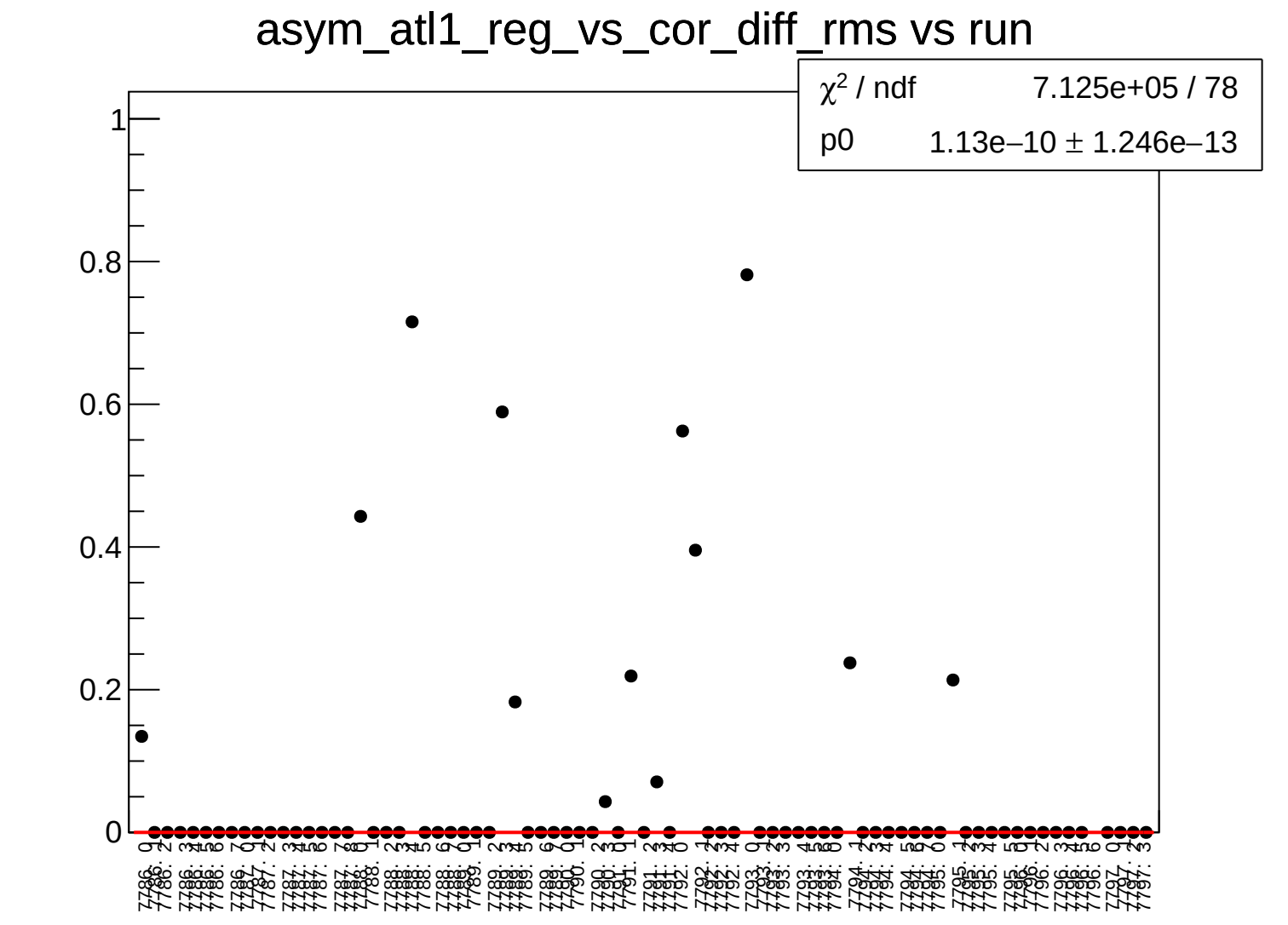

asym_atl1_mean vs run
×10^3
χ² / ndf 59.44 / 78
p0 −5681 ± 2844
100
50
0
−50
−100
pull
Entries 79
Mean 500.5
Std Dev 0
2
1
0
−1
−2

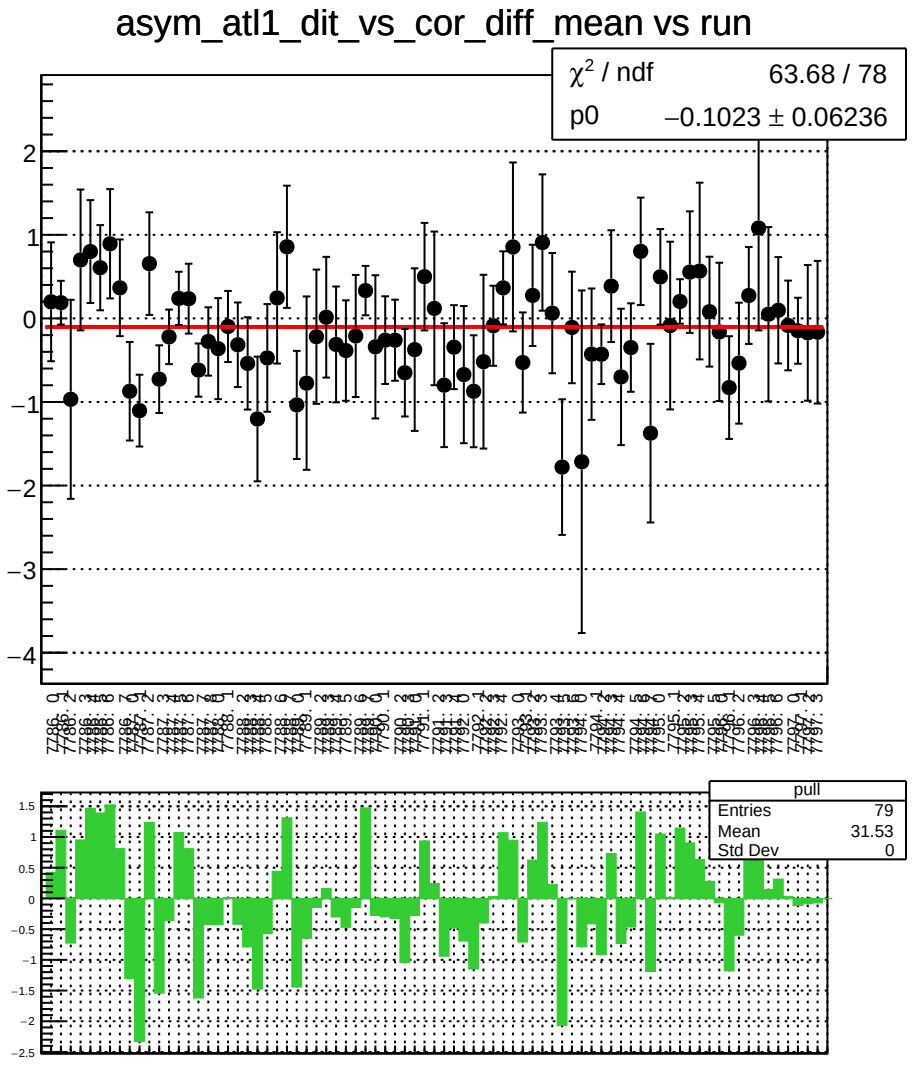

pull1D
Entries 79
Mean 0.004984
Std Dev 0.8674
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

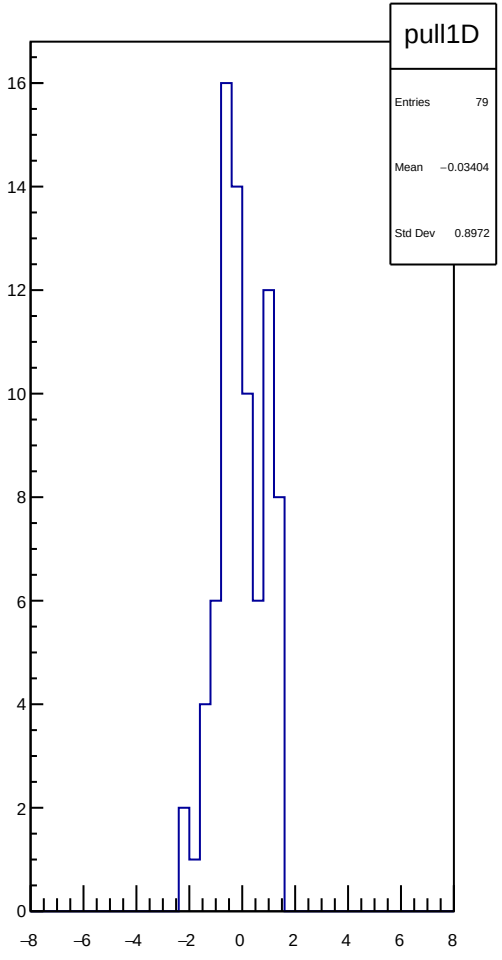

asym_atl1_rms vs run
χ² / ndf 167.1 / 78
p0 2491 ± 2.011
2580
2560
2540
2520
2500
2480
2460
2440
2420

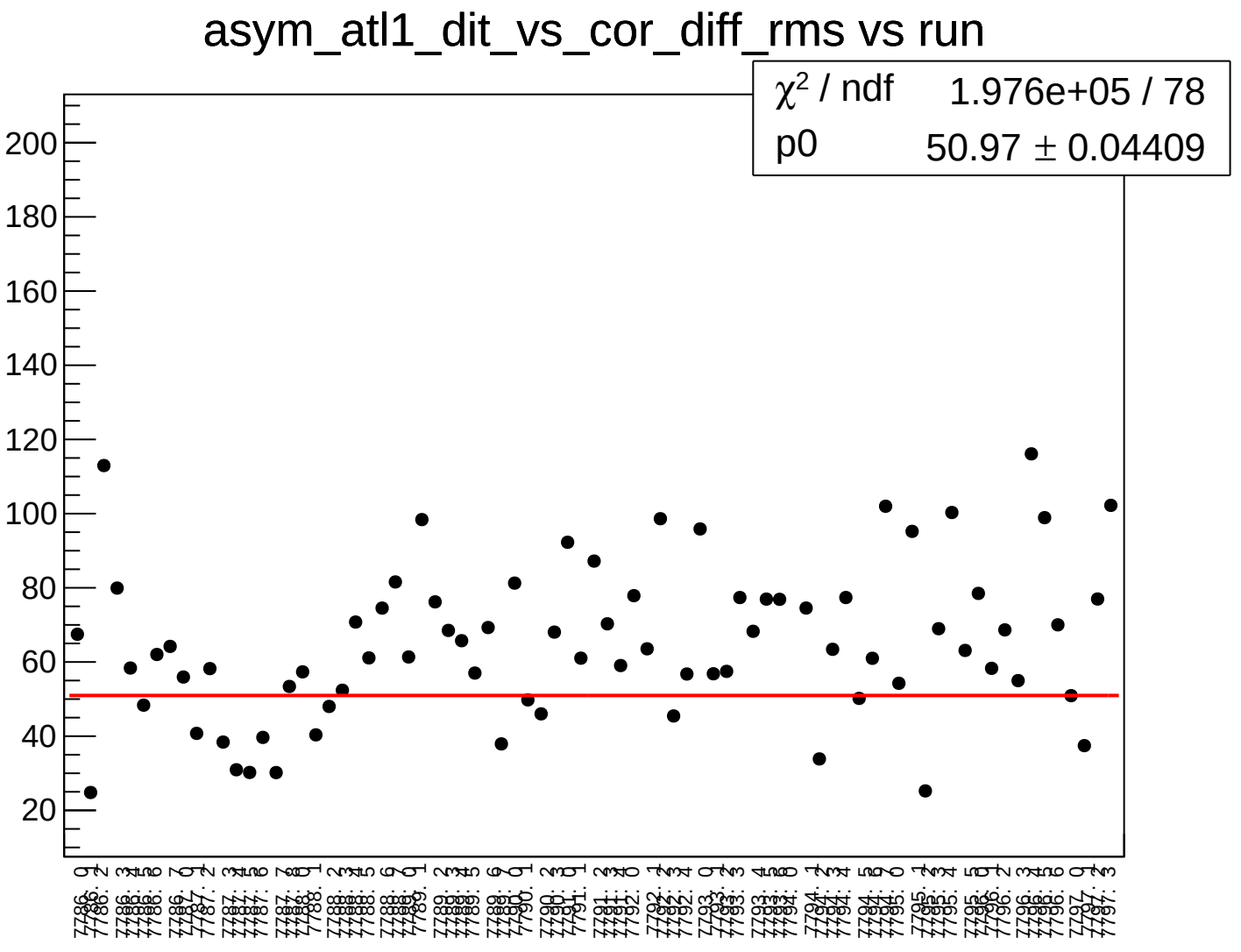

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 64.57 / 78
p0 −1.54e−13 ± 1.763e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 79
Mean −49.63
Std Dev 0

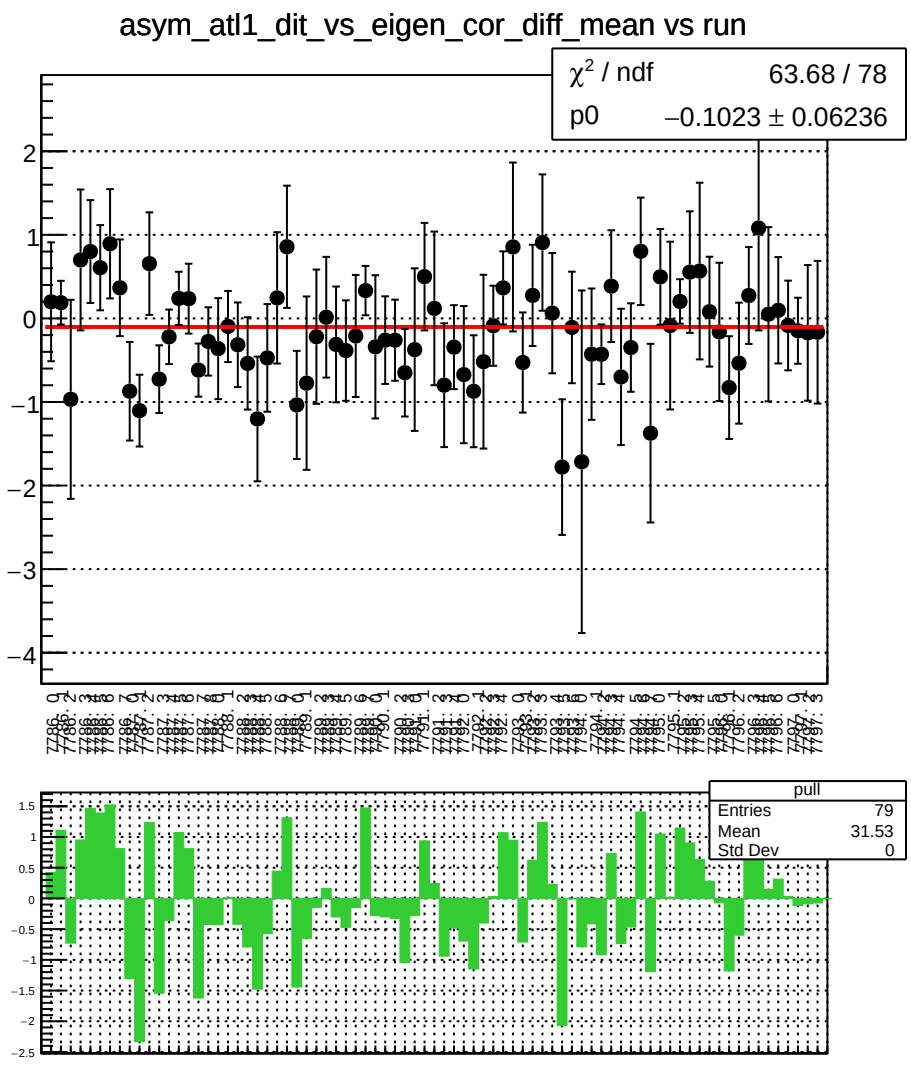

pull1D
Entries 79
Mean 0.04721
Std Dev 0.9029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

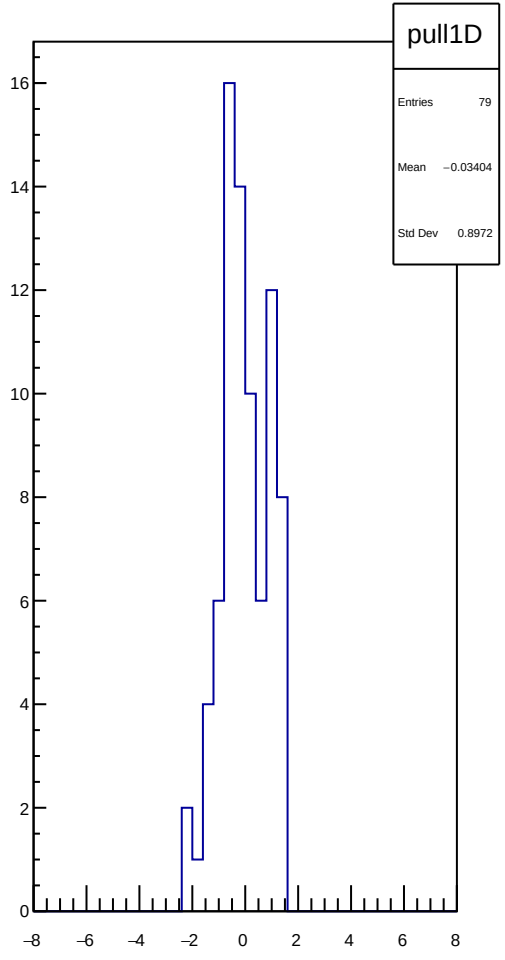

asym_atl1_reg_vs_cor_diff_rms vs run
χ^2 / ndf 7.125e+05 / 78
p0 1.13e−10 ± 1.246e−13
1
0.8
0.6
0.4
0.2
0

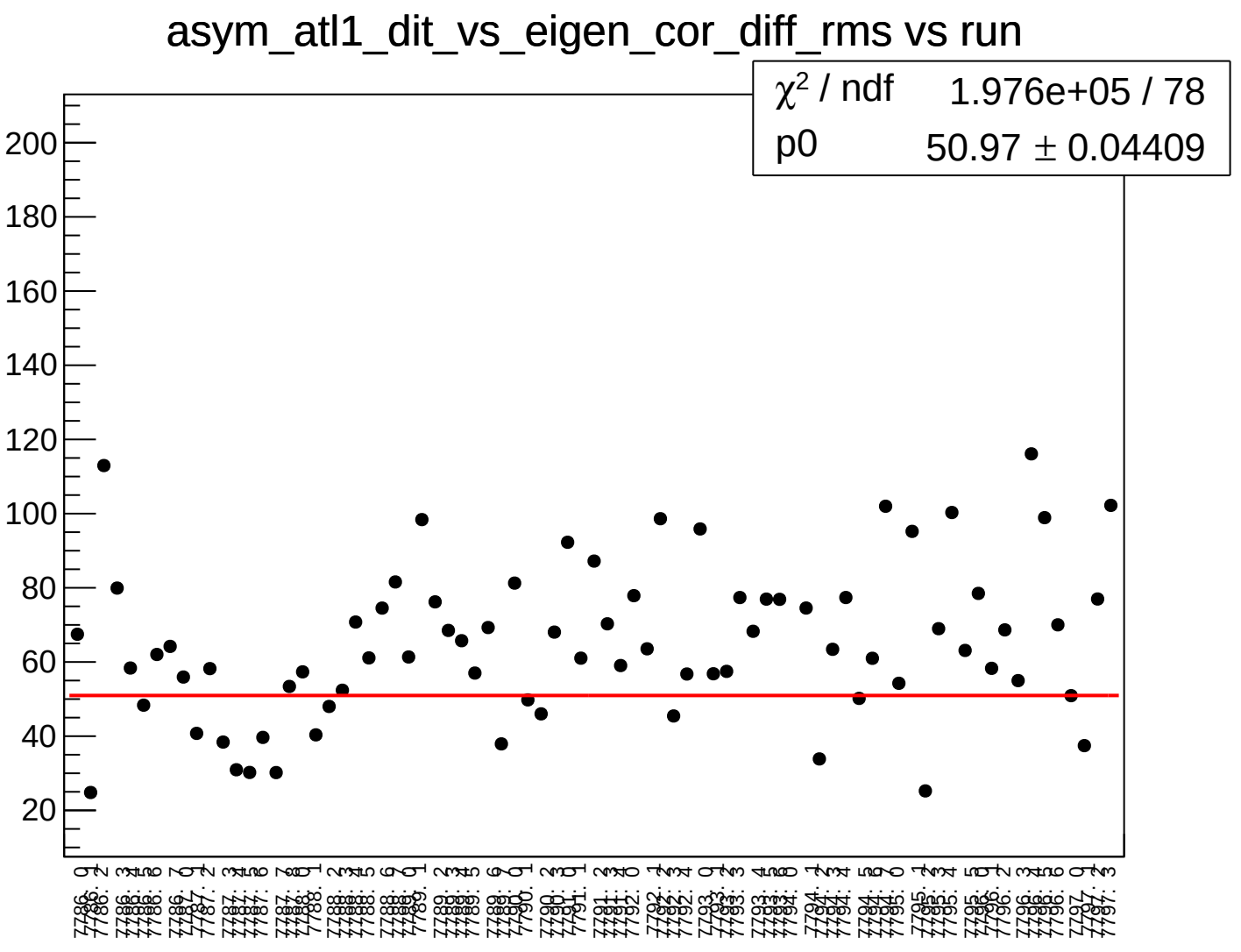

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 63.68 / 78
p0 −0.1023 ± 0.06236
pull
Entries 79
Mean 31.53
Std Dev 0

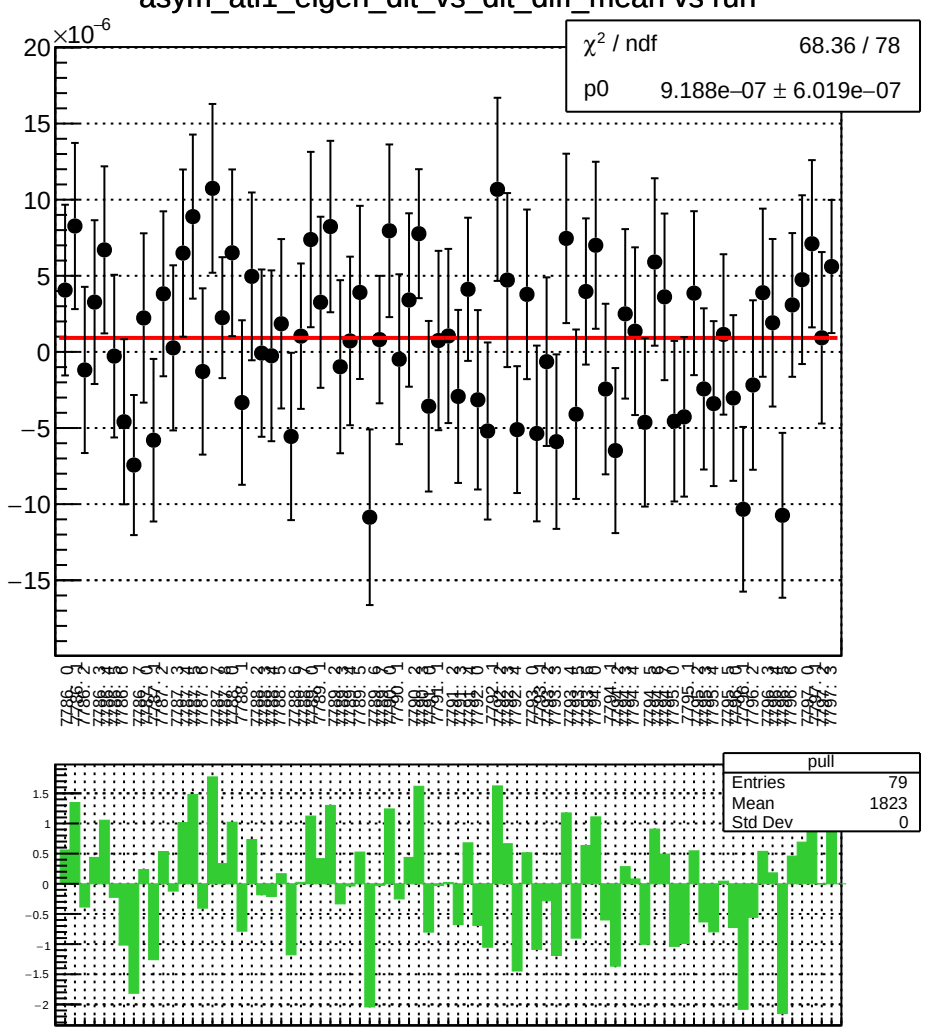

pull1D
Entries 79
Mean −0.03404
Std Dev 0.8972

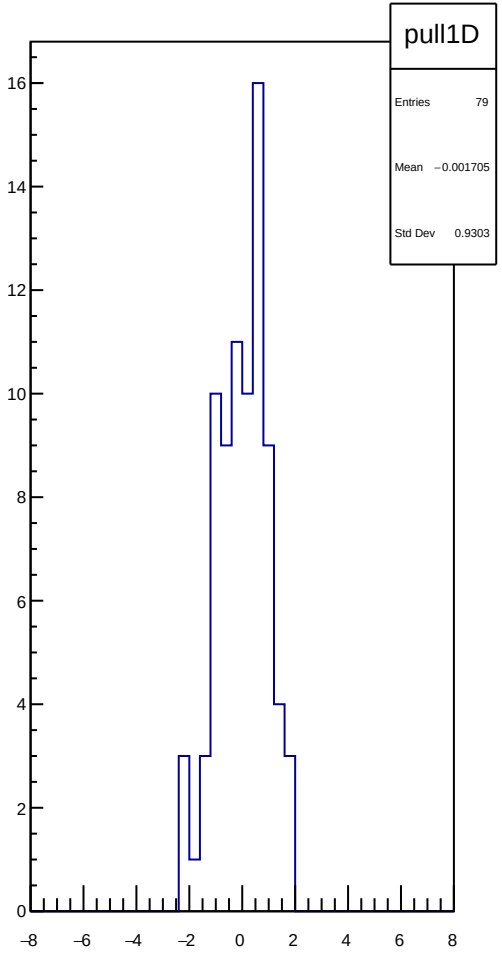

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.976e+05 / 78
p0 50.97 ± 0.04409
200
180
160
140
120
100
80
60
40
20

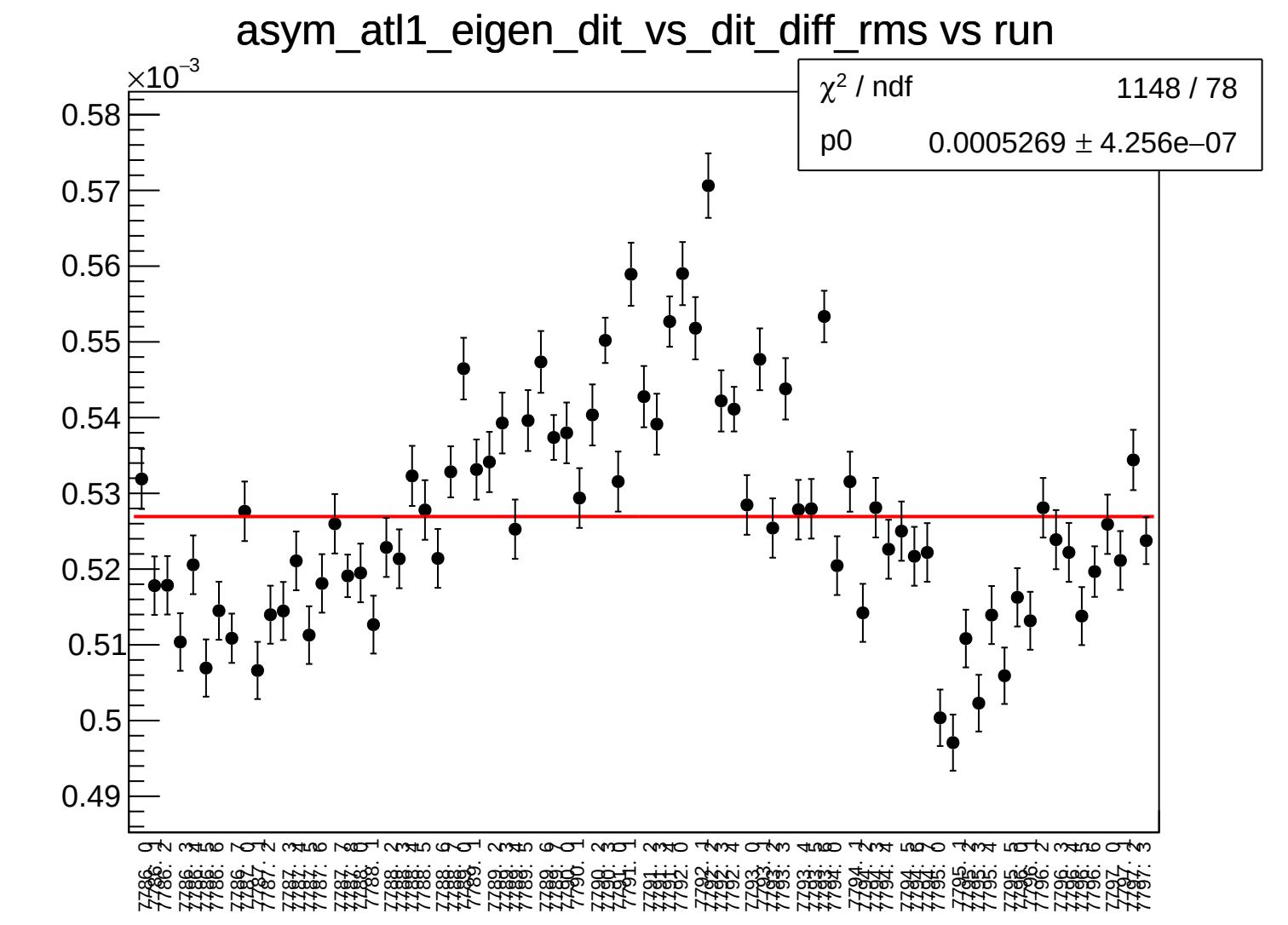

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.68 / 78
p0 −0.1023 ± 0.06236
pull
Entries 79
Mean 31.53
Std Dev 0

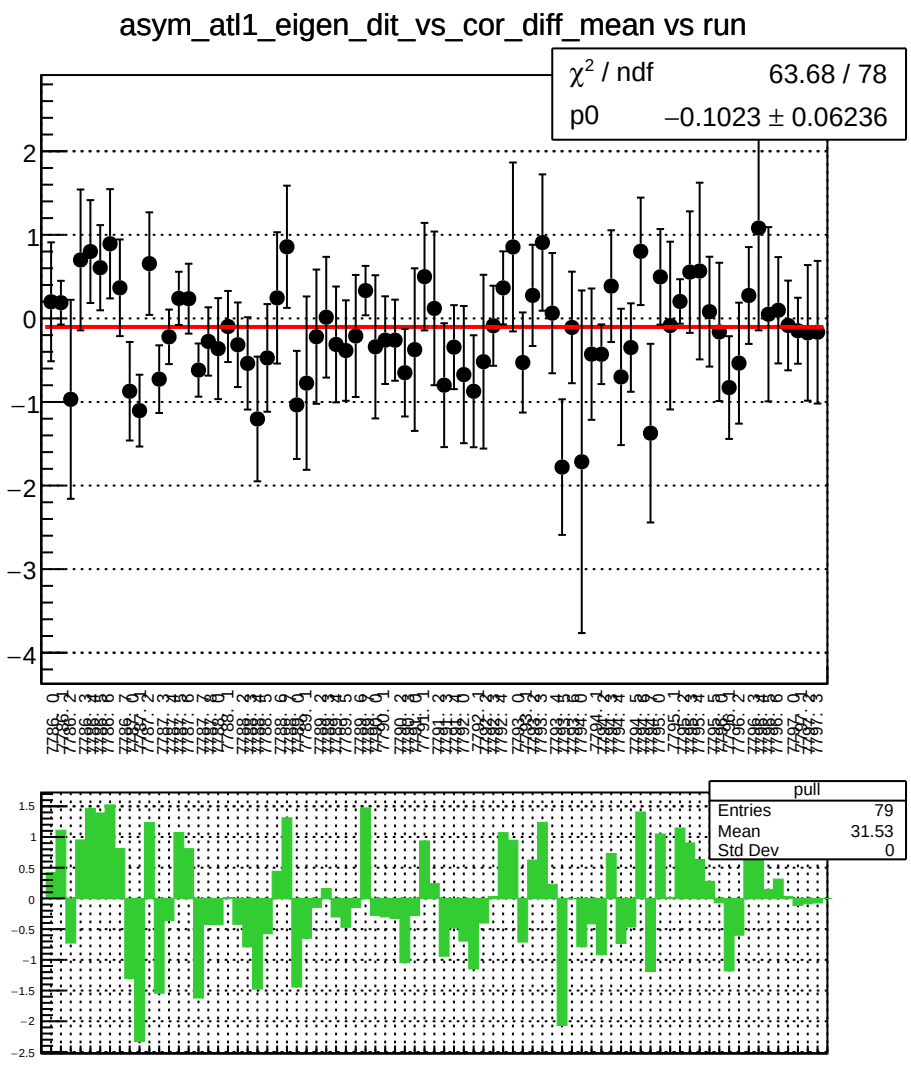

pull1D
Entries 79
Mean −0.03404
Std Dev 0.8972

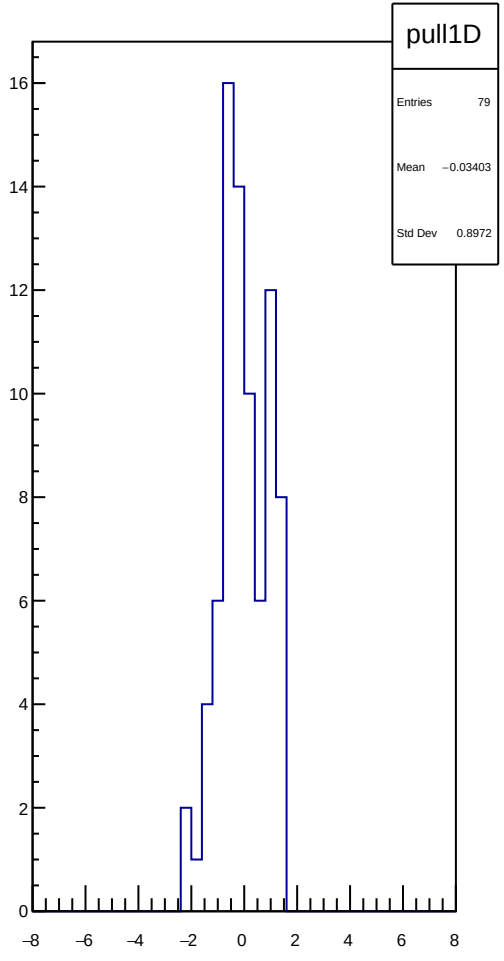

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.976e+05 / 78
p0 50.97 ± 0.04409
200
180
160
140
120
100
80
60
40
20

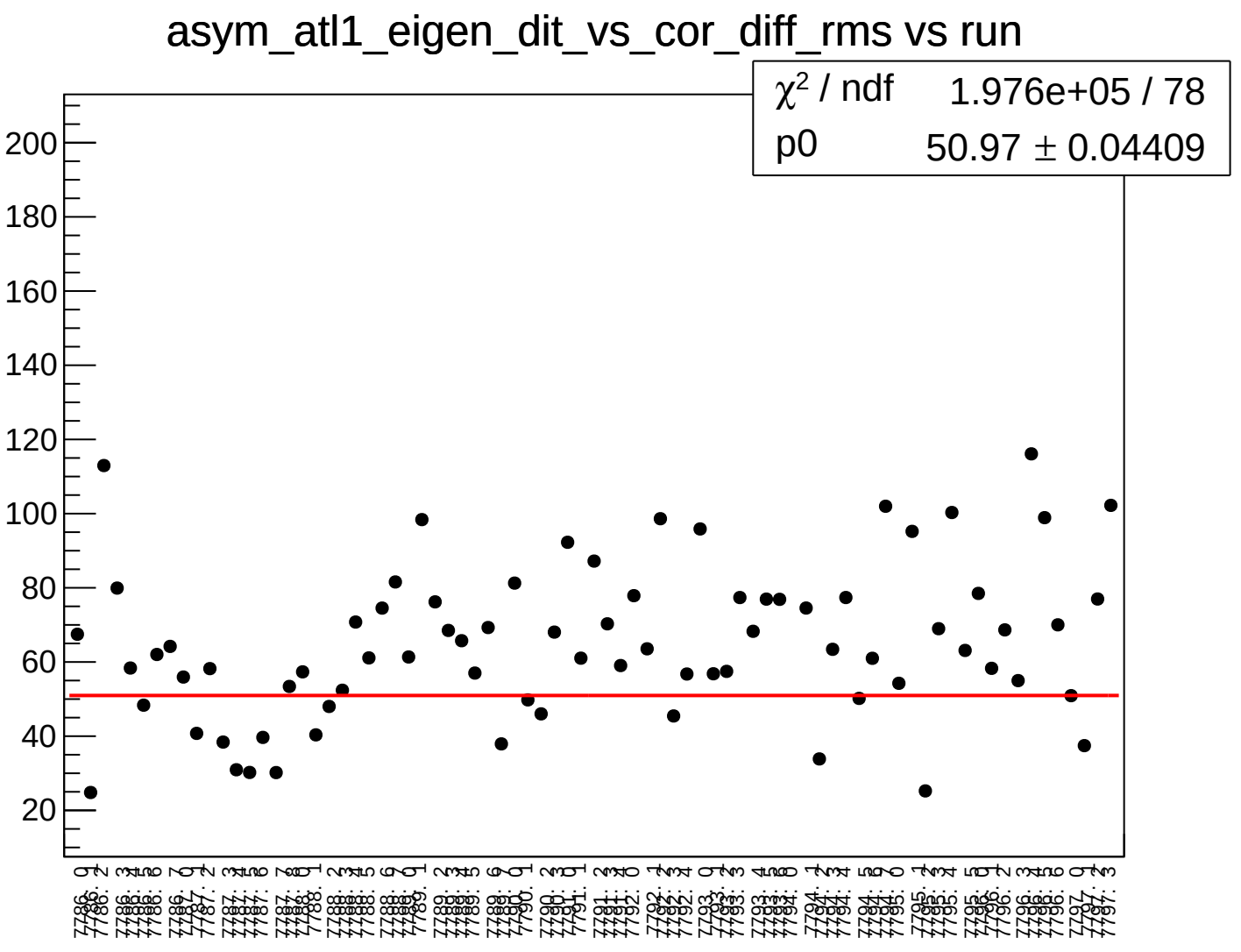

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 68.36 / 78
p0 9.188e−07 ± 6.019e−07
pull
Entries 79
Mean 1823
Std Dev 0

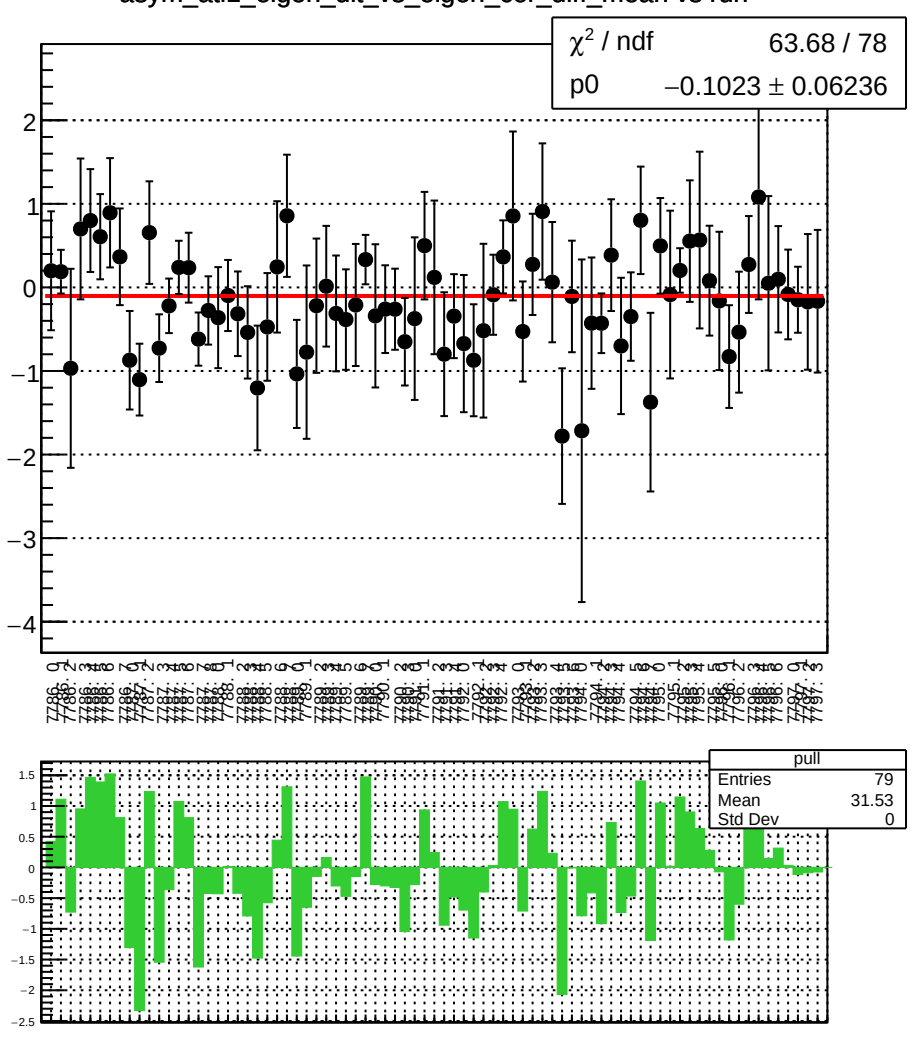

pull1D
Entries 79
Mean −0.001705
Std Dev 0.9303

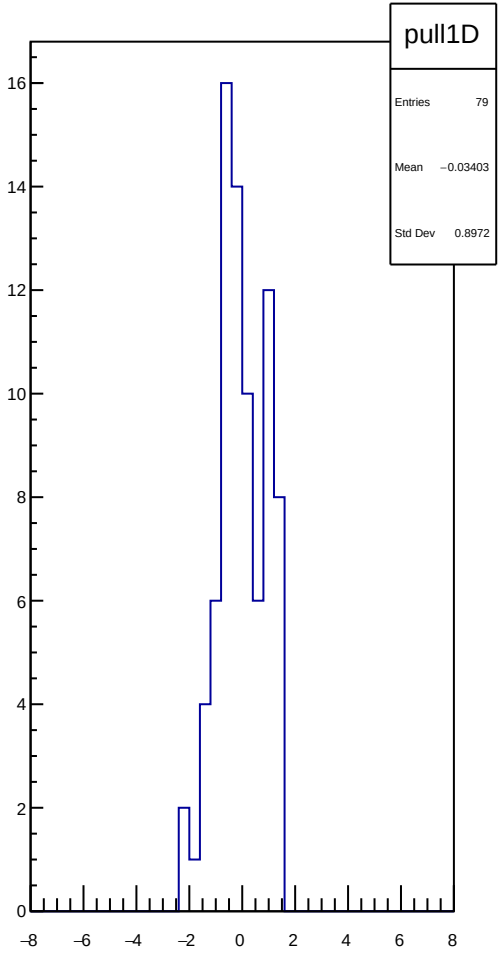

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1148 / 78
p0 0.0005269 ± 4.256e−07
0.58
0.57
0.56
0.55
0.54
0.53
0.52
0.51
0.5
0.49

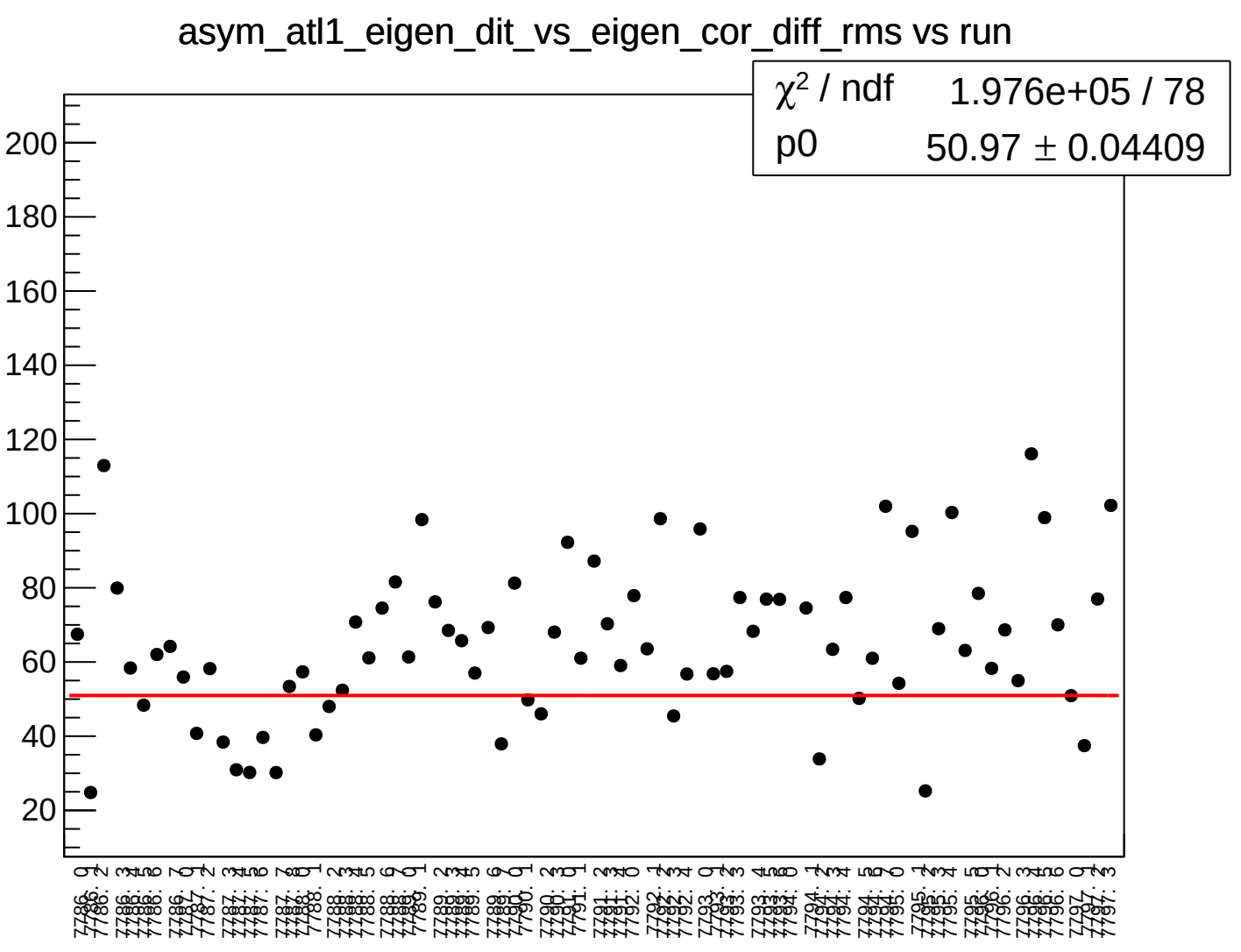

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.68 / 78
p0 −0.1023 ± 0.06236
pull
Entries 79
Mean 31.53
Std Dev 0

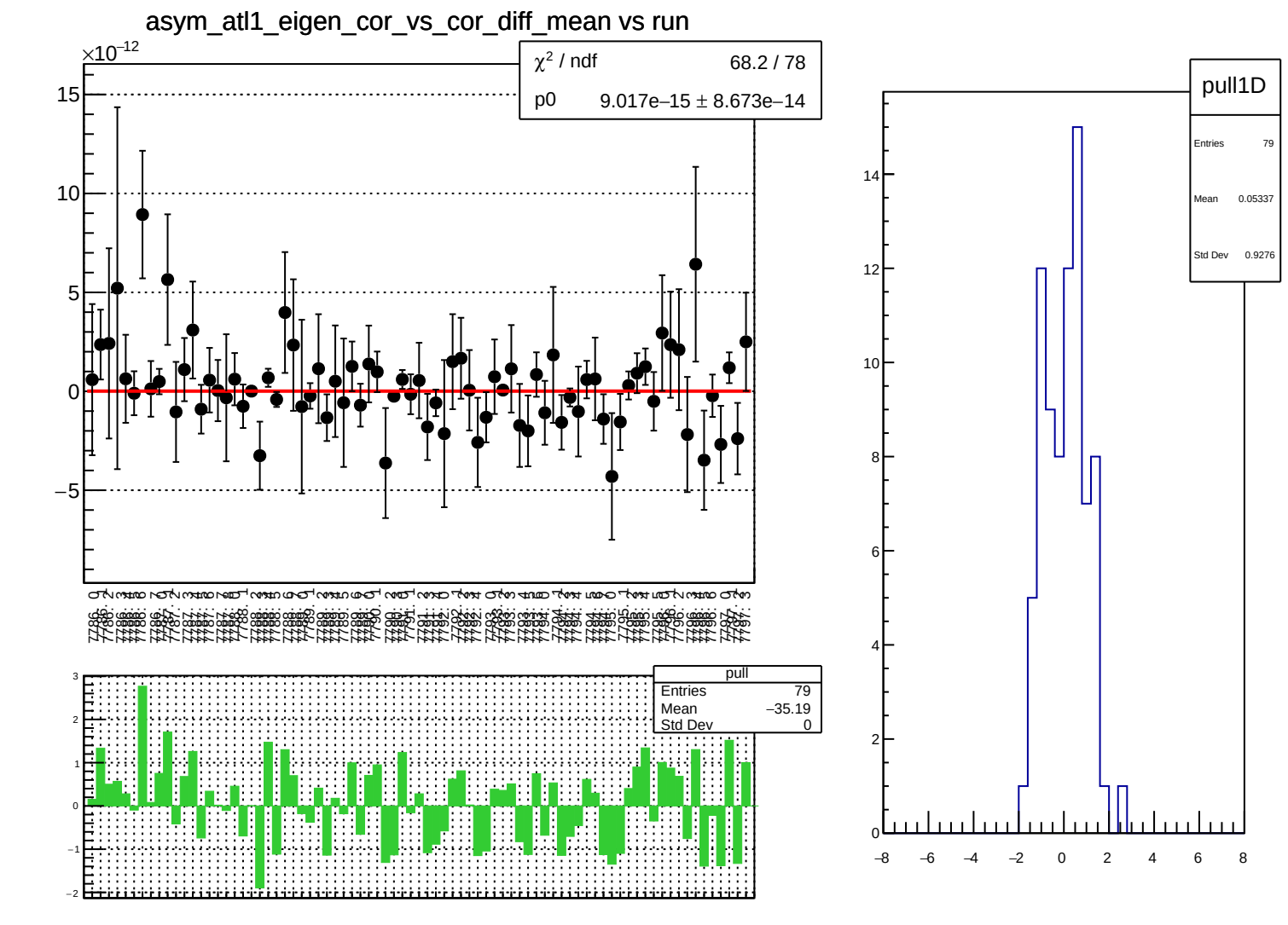

pull1D
Entries 79
Mean −0.03403
Std Dev 0.8972

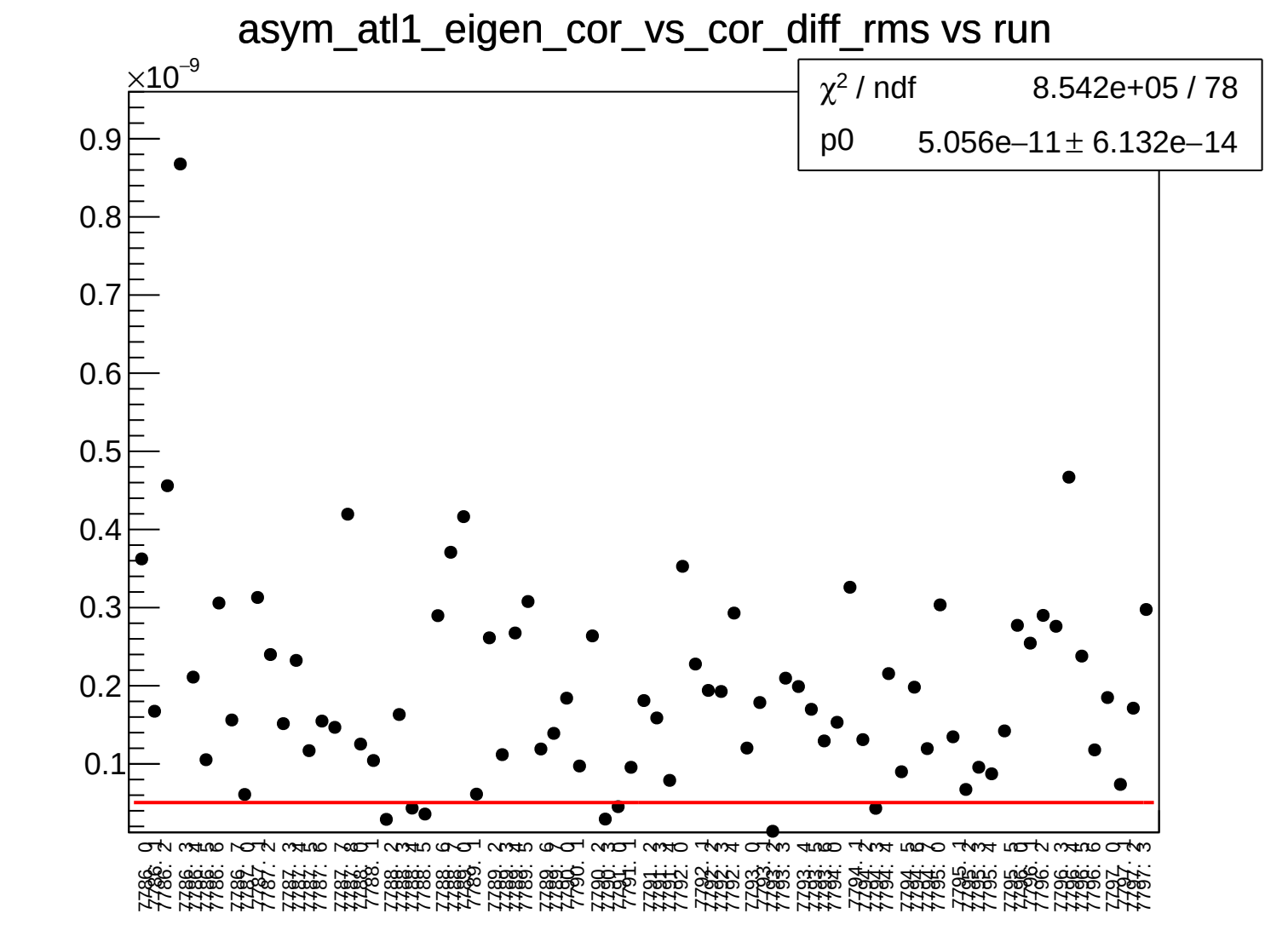

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.976e+05 / 78
p0 50.97 ± 0.04409
200
180
160
140
120
100
80
60
40
20

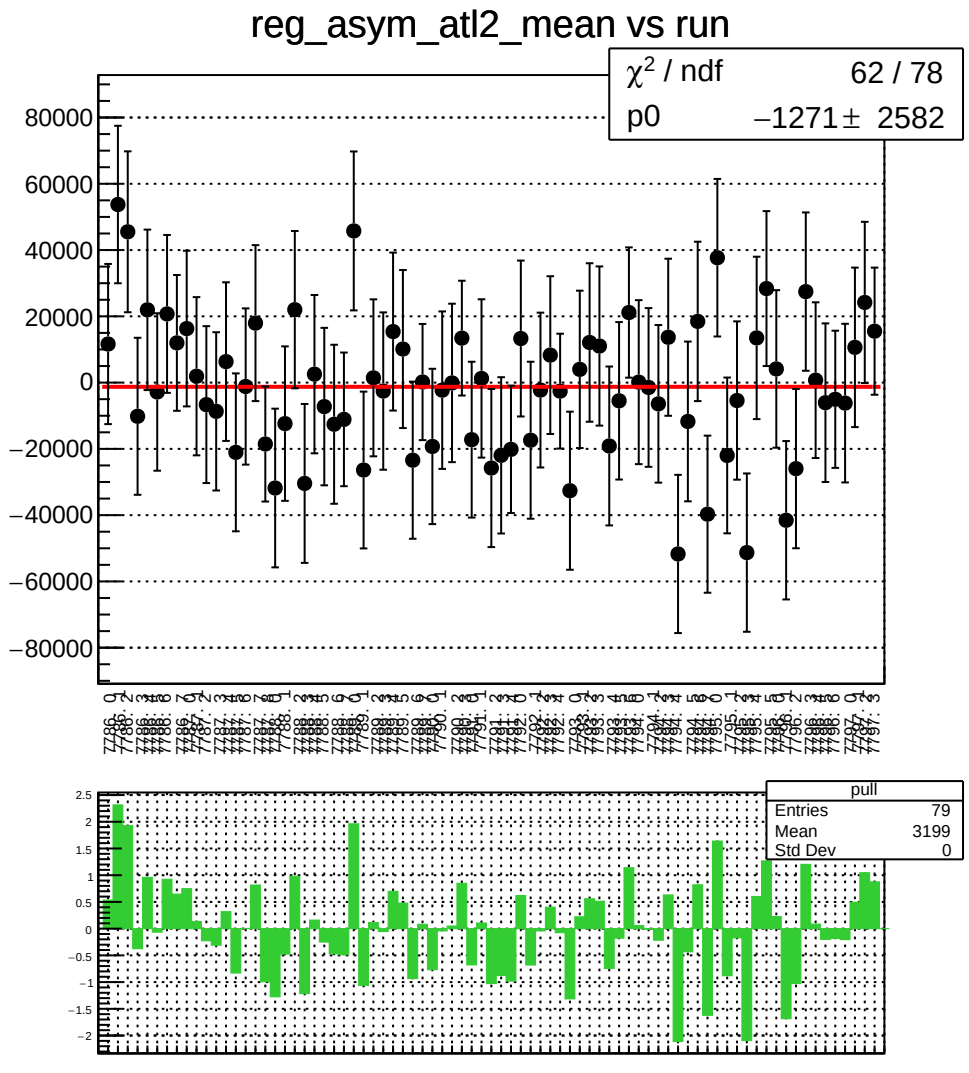

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.68 / 78
p0 −0.1023 ± 0.06236
pull
Entries 79
Mean 31.53
Std Dev 0

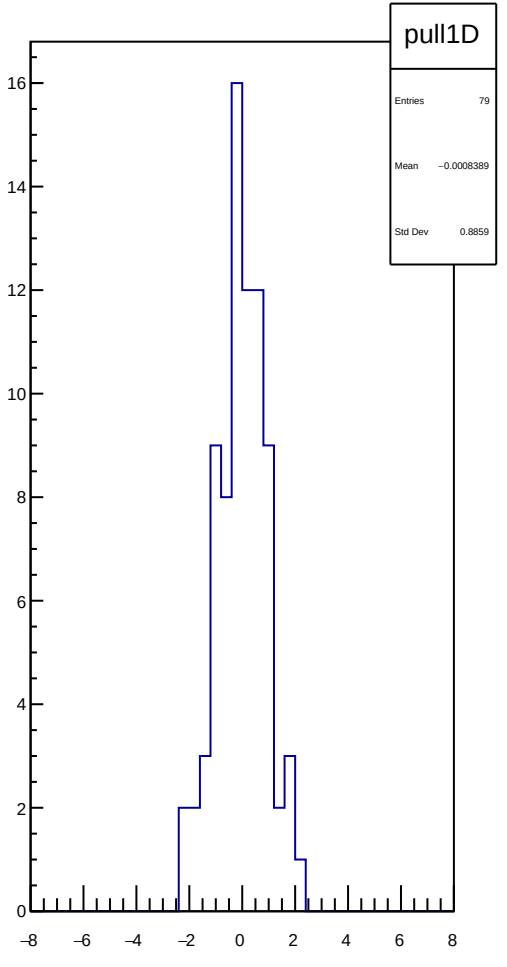

pull1D
Entries 79
Mean −0.03403
Std Dev 0.8972

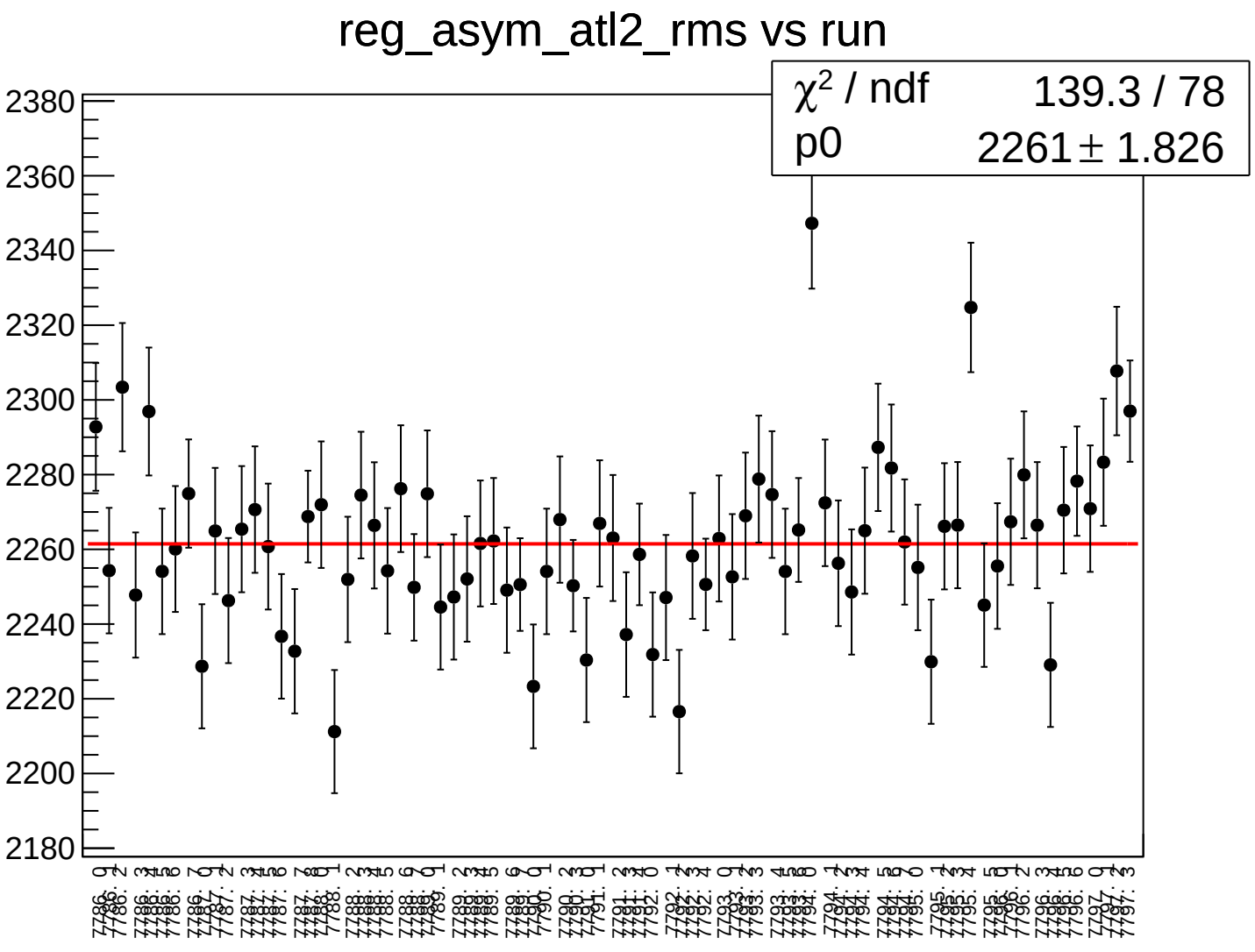

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.976e+05 / 78
p0 50.97 ± 0.04409
200
180
160
140
120
100
80
60
40
20

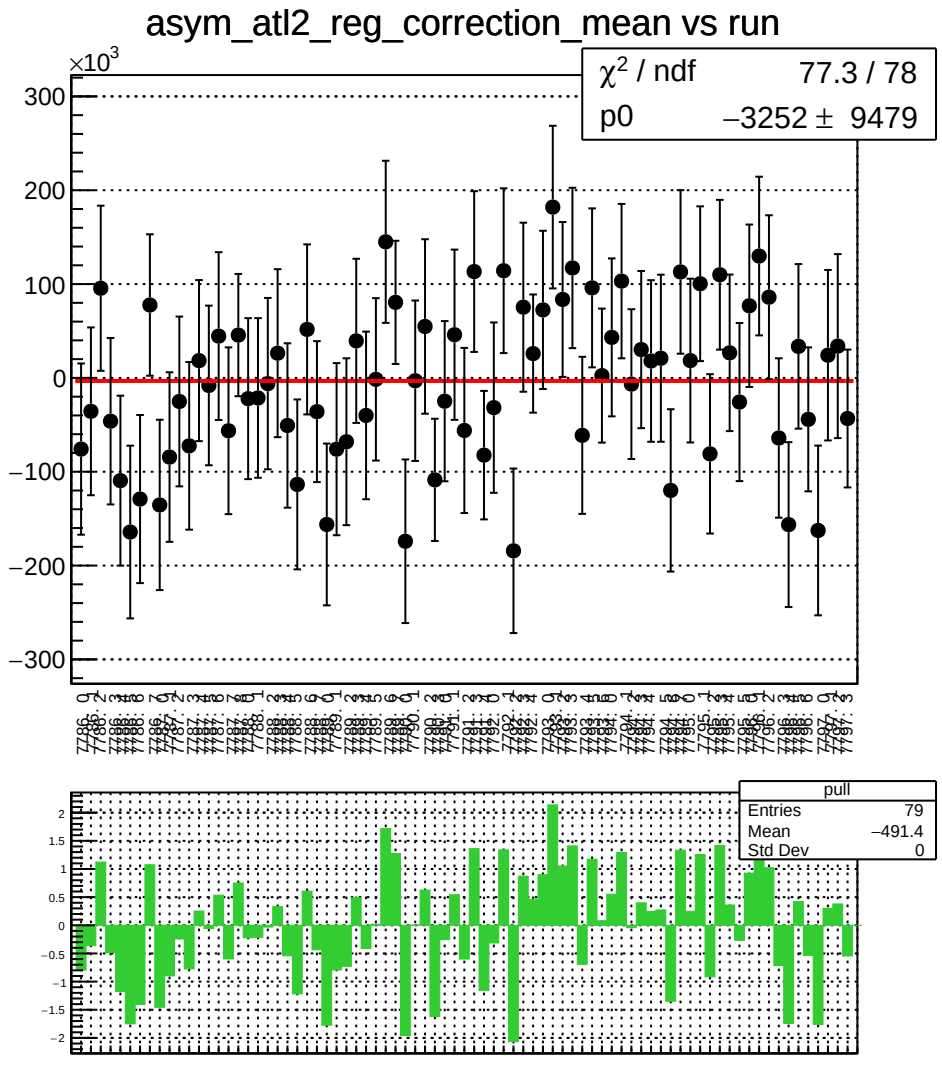

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.2 / 78
p0 9.017e−15 ± 8.673e−14
pull
Entries 79
Mean −35.19
Std Dev 0
pull1D
Entries 79
Mean 0.05337
Std Dev 0.9276

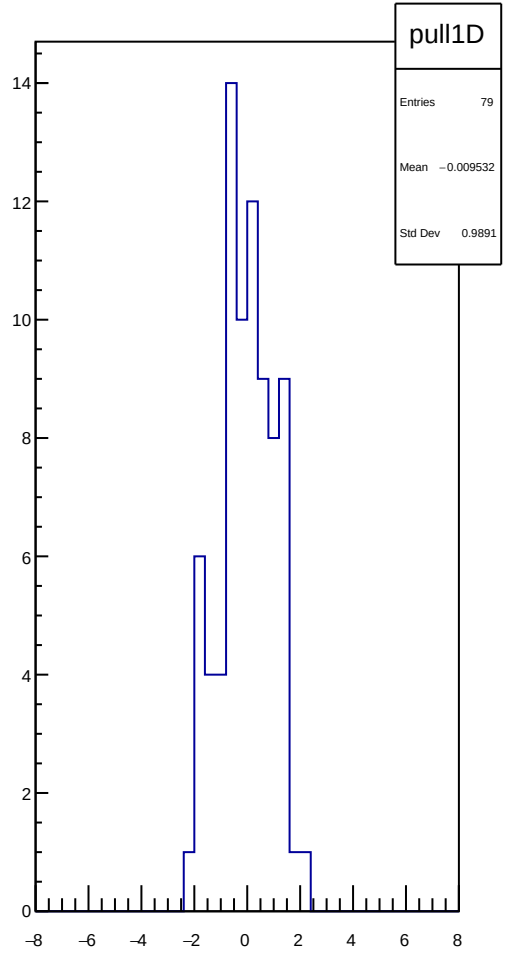

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.542e+05 / 78
p0 5.056e−11 ± 6.132e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

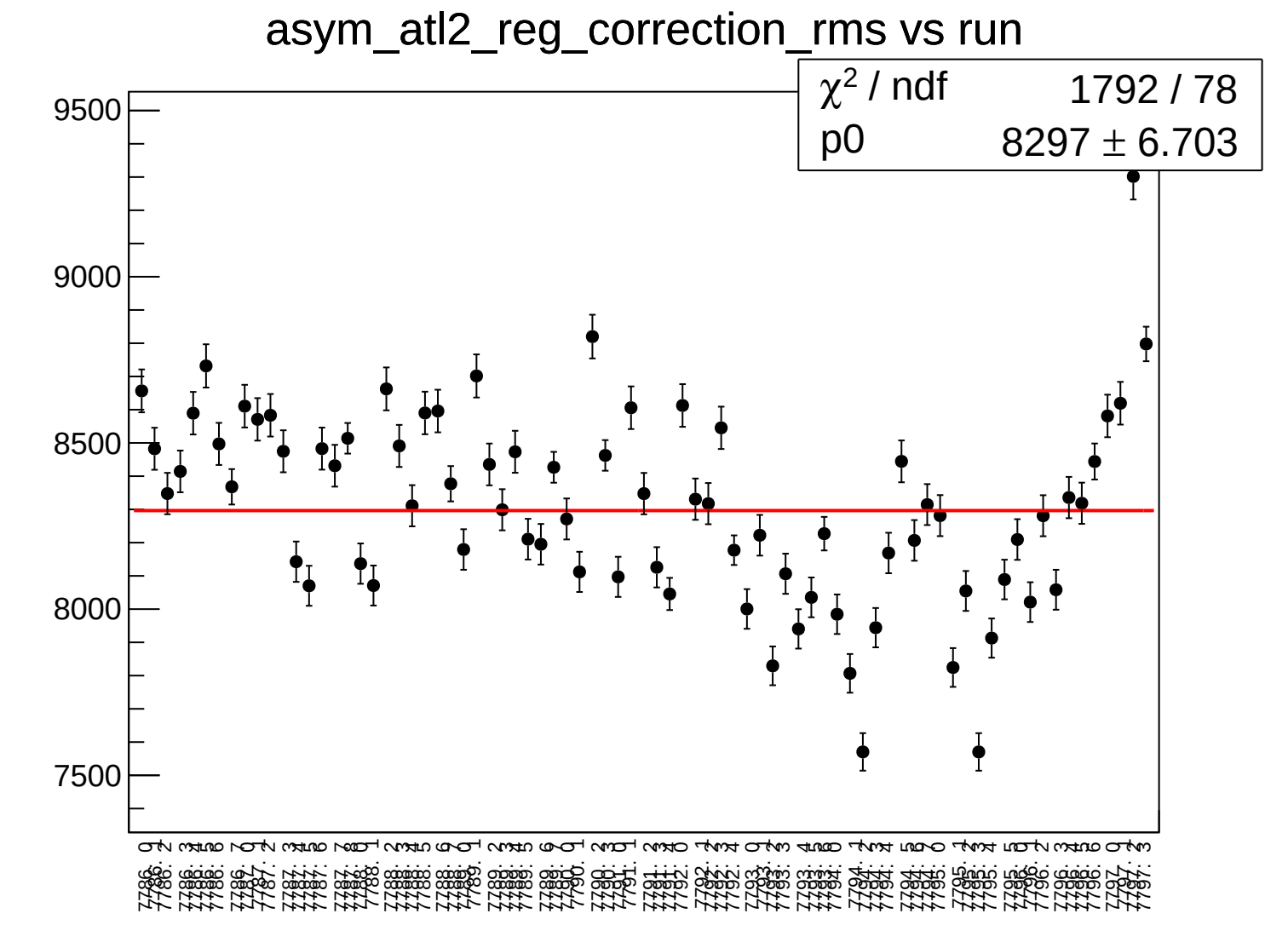

reg_asym_atl2_mean vs run
χ² / ndf 62 / 78
p0 −1271 ± 2582
pull
Entries 79
Mean 3199
Std Dev 0

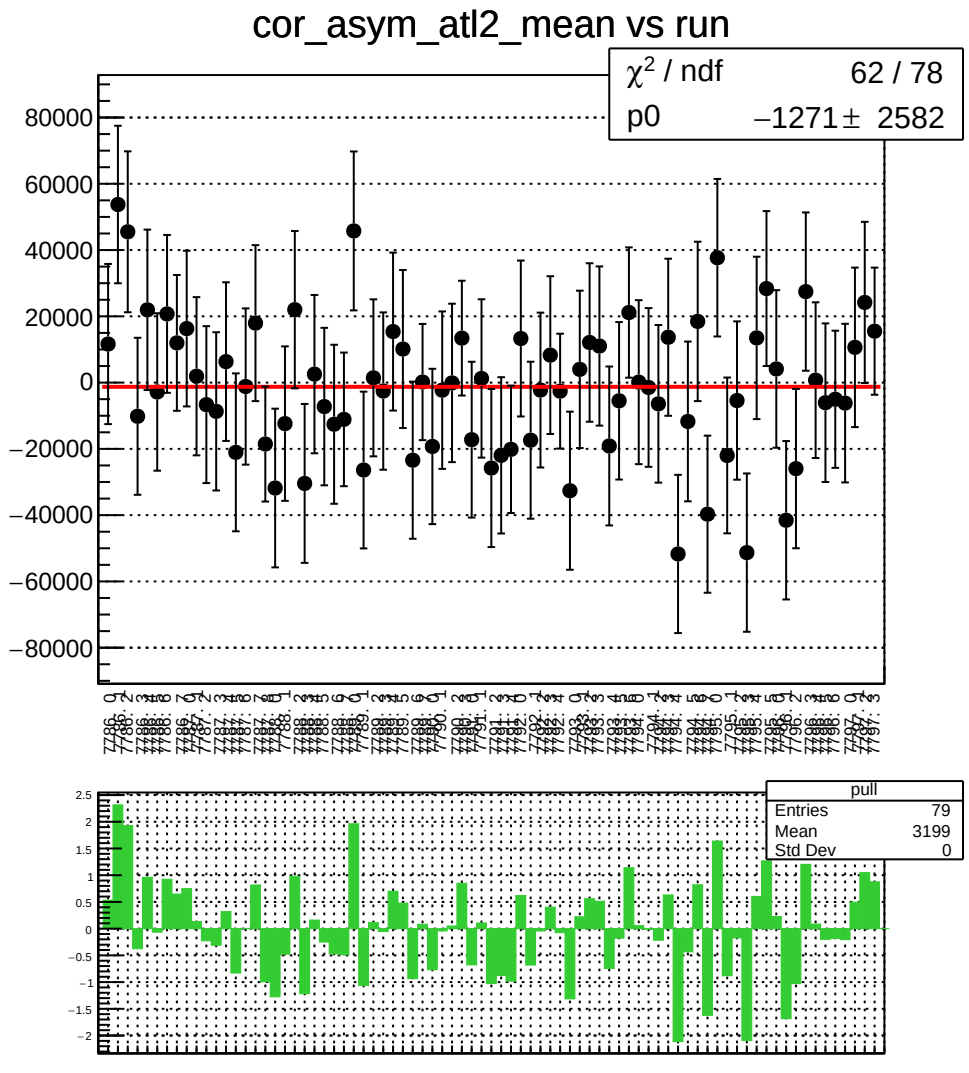

pull1D
Entries 79
Mean −0.0008389
Std Dev 0.8859

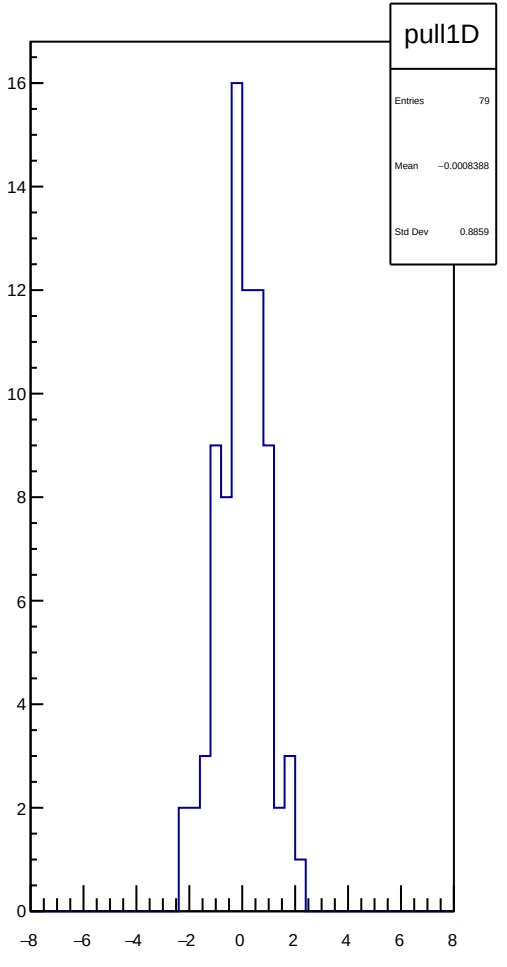

reg_asym_atl2_rms vs run
χ² / ndf 139.3 / 78
p0 2261 ± 1.826
2380
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180

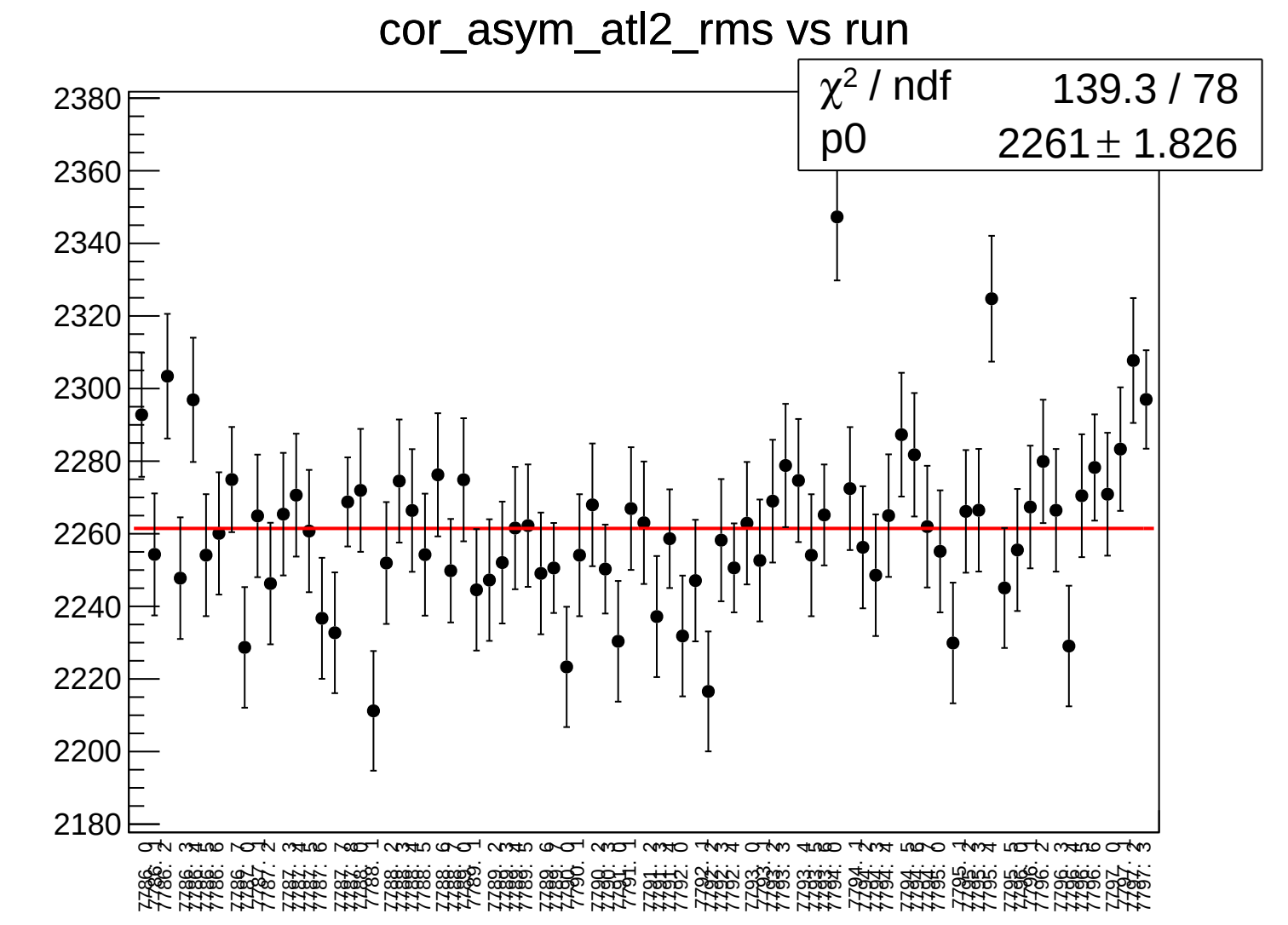

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 77.3 / 78
p0 −3252 ± 9479
300
200
100
0
−100
−200
−300
pull
Entries 79
Mean −491.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

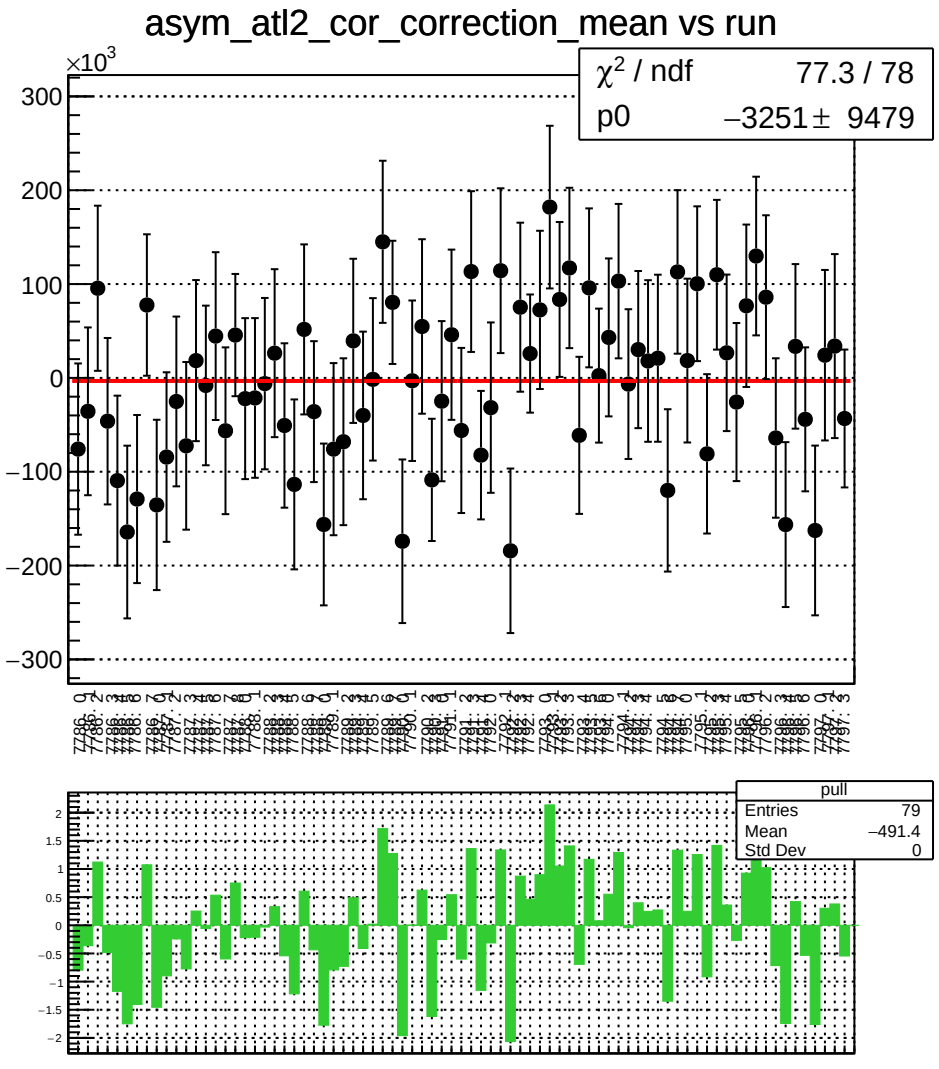

pull1D
Entries 79
Mean −0.009532
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

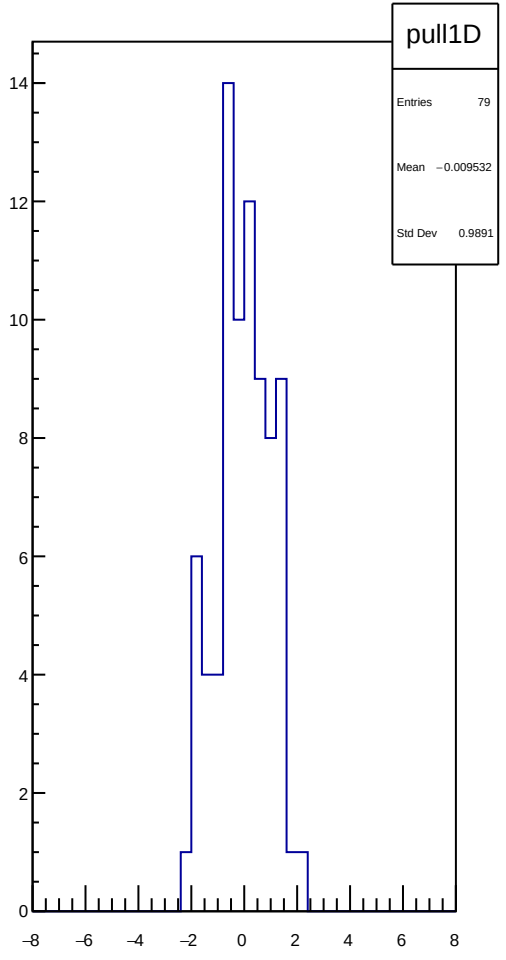

asym_atl2_reg_correction_rms vs run
χ² / ndf 1792 / 78
p0 8297 ± 6.703
9500
9000
8500
8000
7500

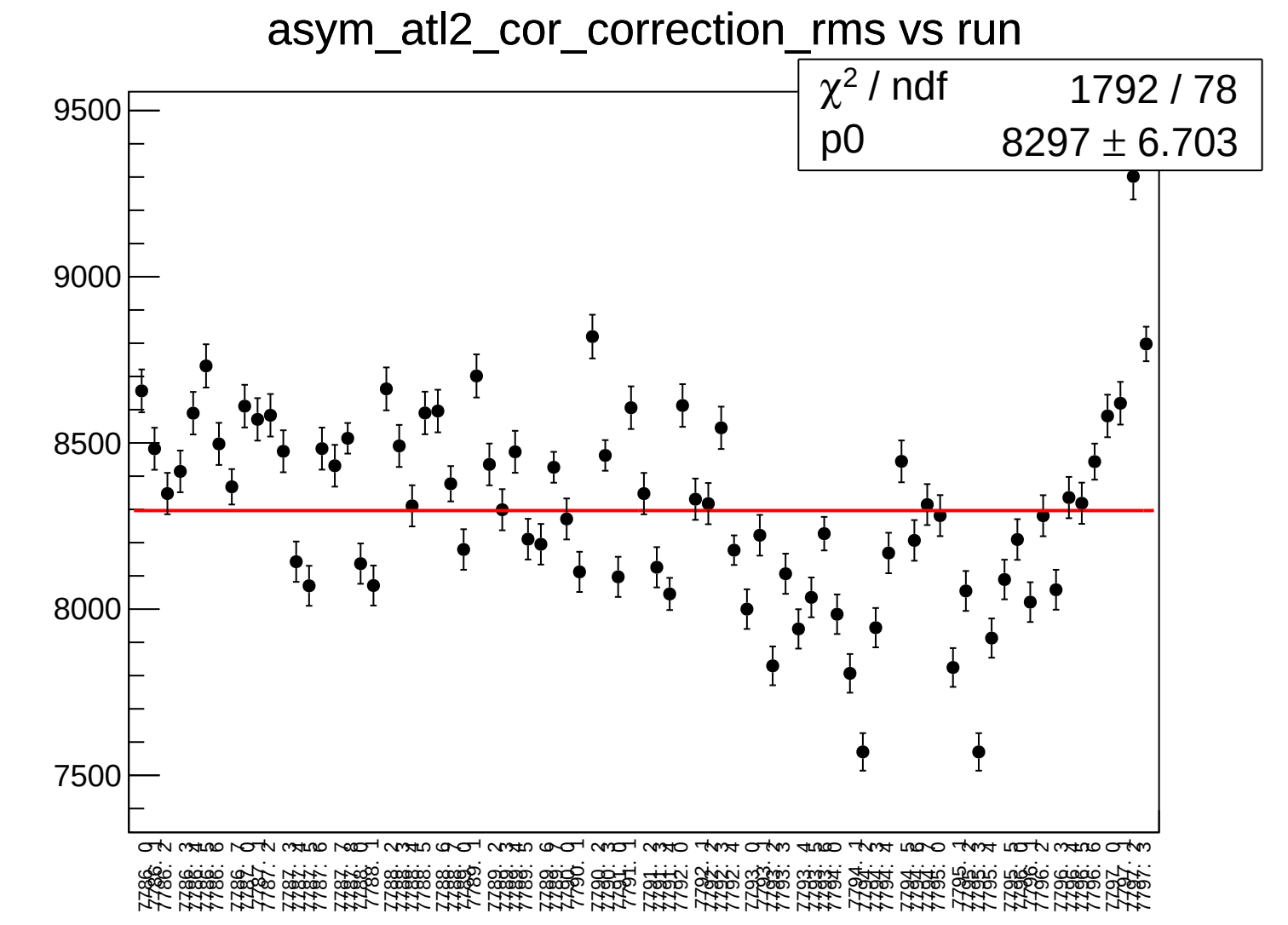

cor_asym_atl2_mean vs run
χ² / ndf 62 / 78
p0 −1271 ± 2582
pull
Entries 79
Mean 3199
Std Dev 0

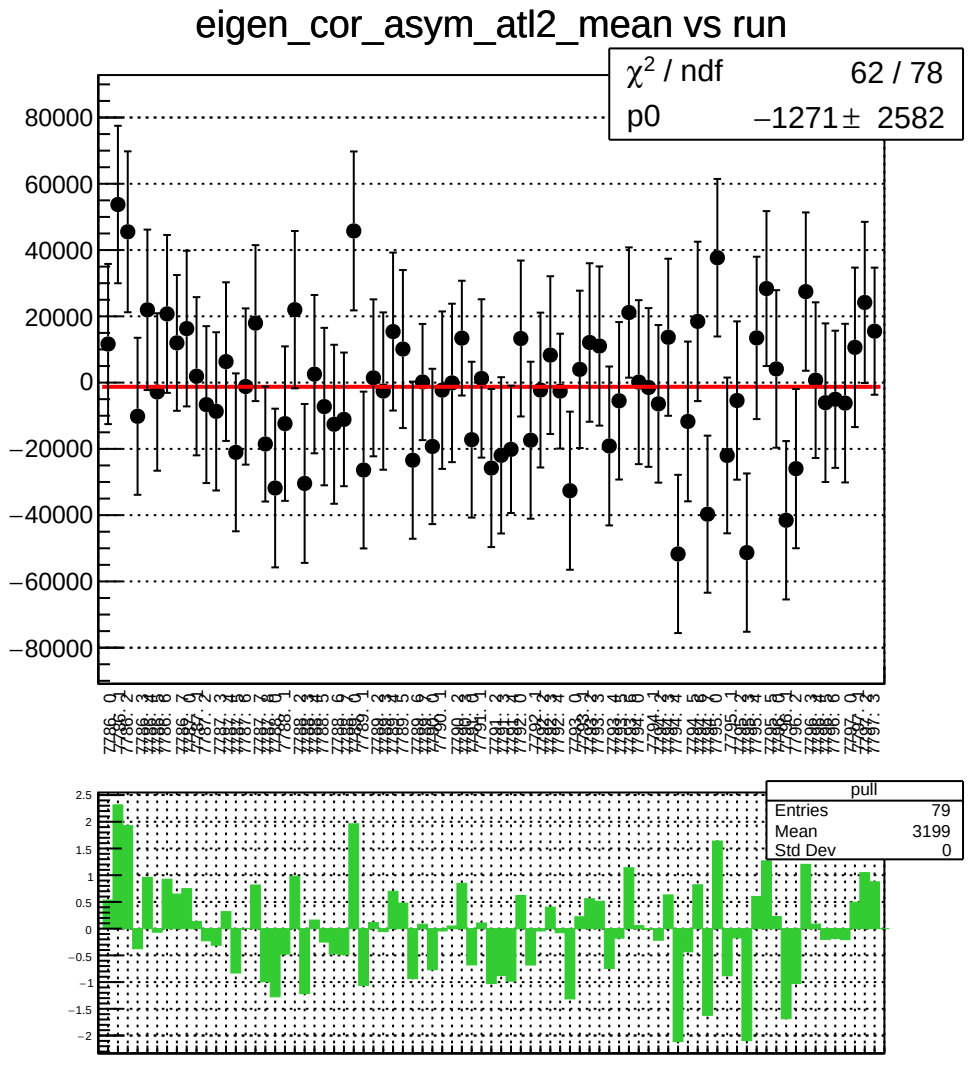

pull1D
Entries 79
Mean −0.0008388
Std Dev 0.8859

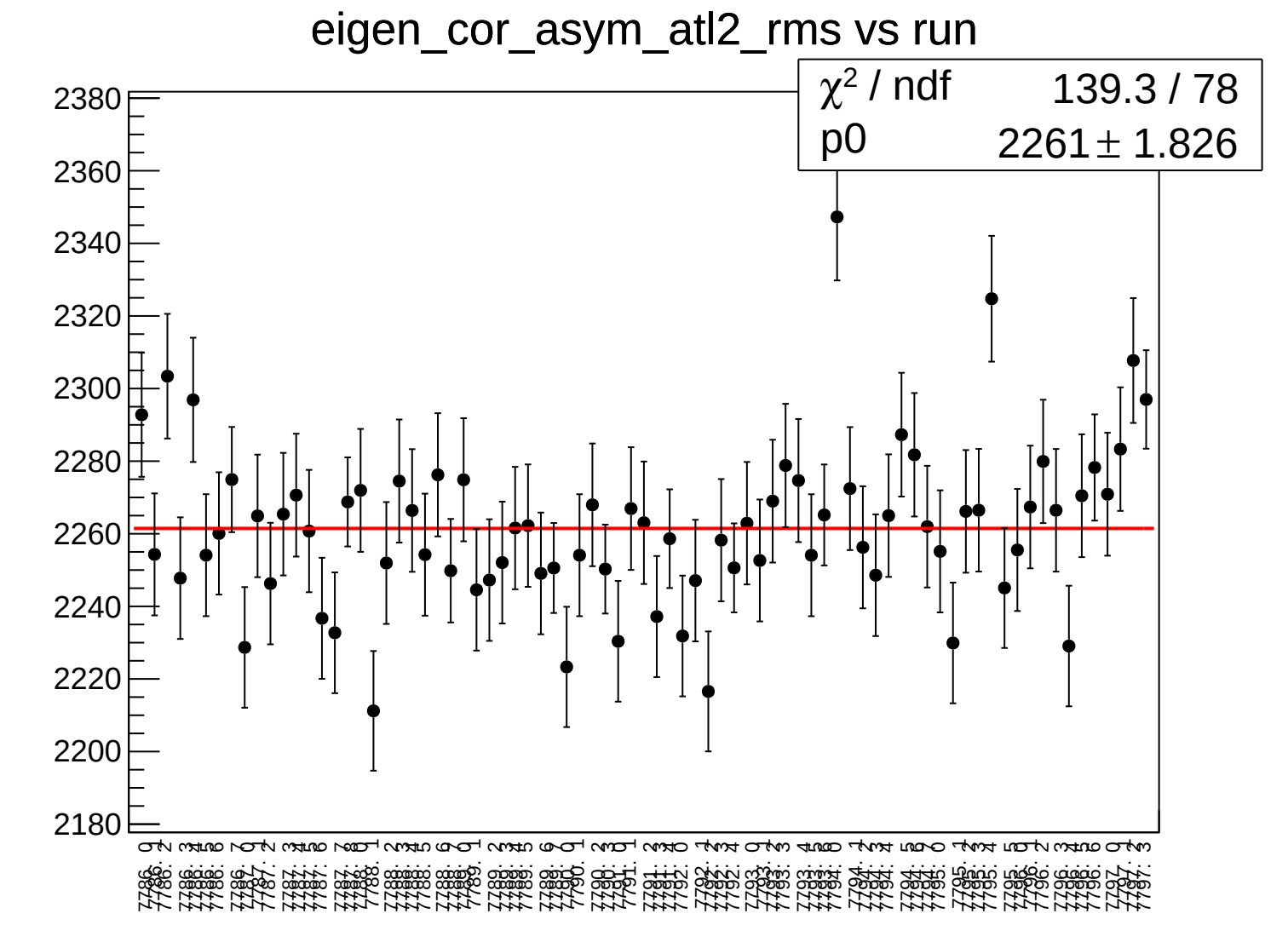

cor_asym_atl2_rms vs run
χ^2 / ndf 139.3 / 78
p0 2261 ± 1.826
2380
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180

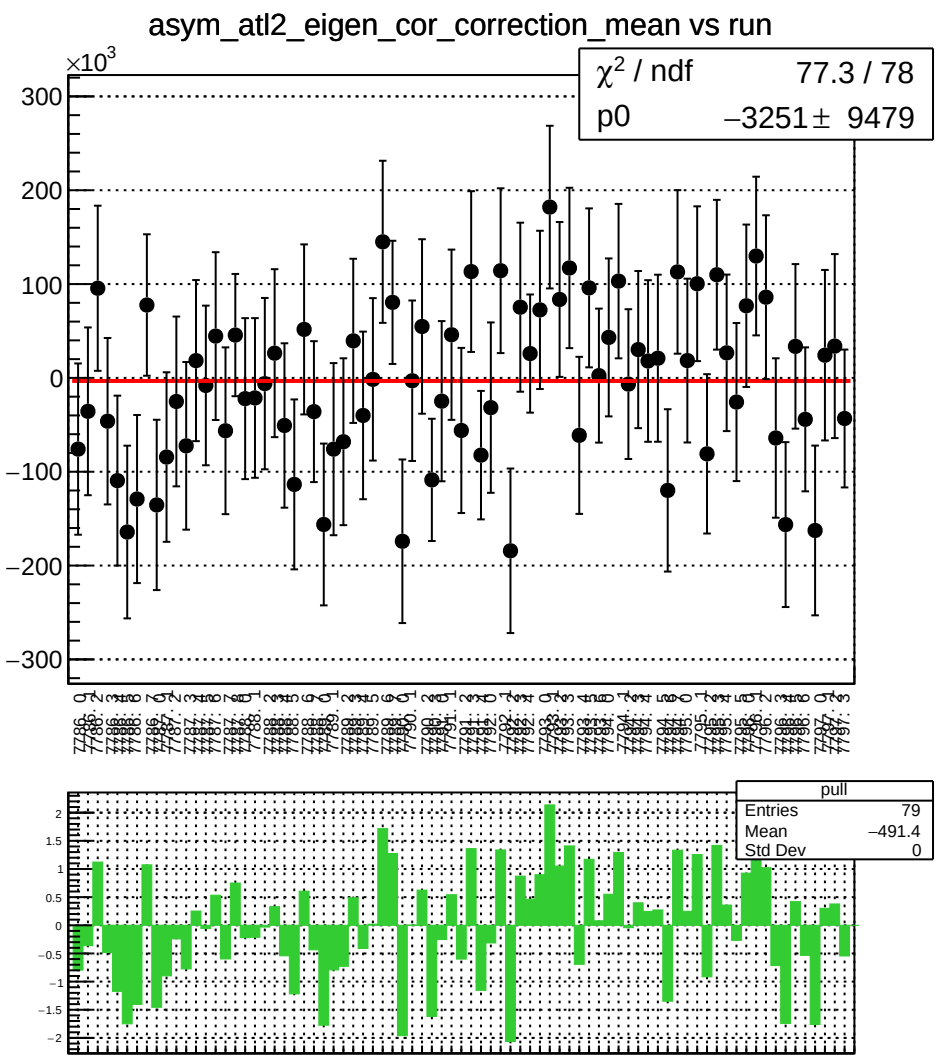

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 77.3 / 78
p0 −3251 ± 9479
300
200
100
0
−100
−200
−300
pull
Entries 79
Mean −491.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

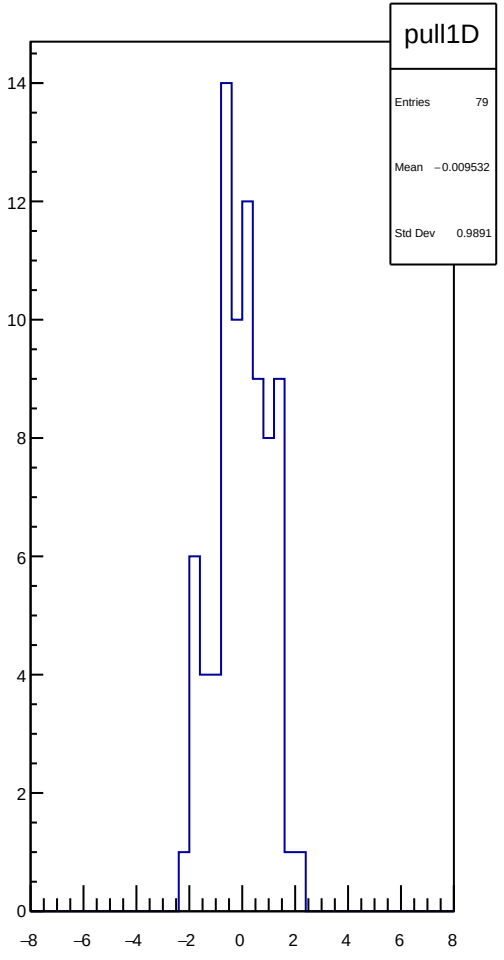

pull1D
Entries 79
Mean −0.009532
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

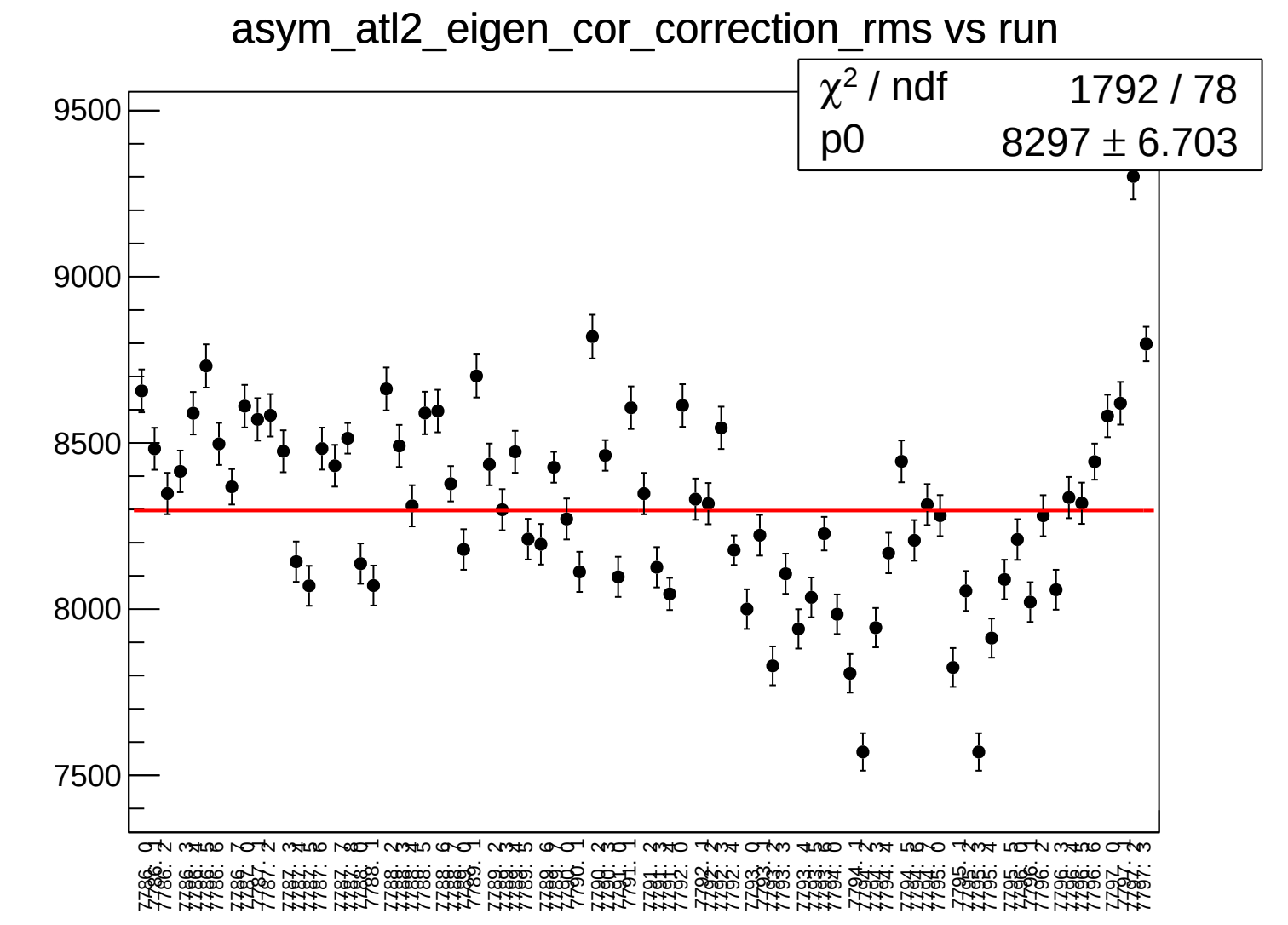

asym_atl2_cor_correction_rms vs run
χ² / ndf 1792 / 78
p0 8297 ± 6.703
9500
9000
8500
8000
7500

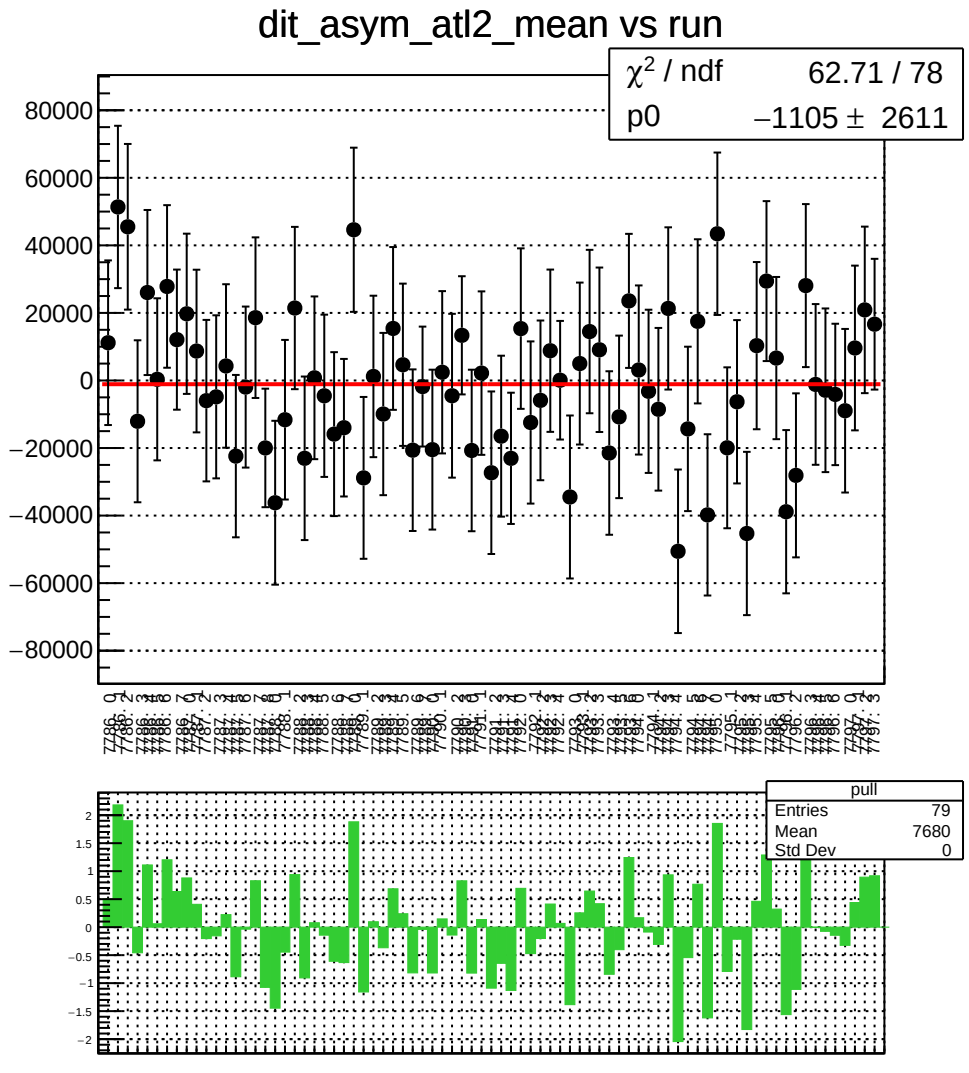

eigen_cor_asym_atl2_mean vs run
χ² / ndf 62 / 78
p0 −1271 ± 2582
pull
Entries 79
Mean 3199
Std Dev 0
pull1D
Entries 79
Mean −0.0008388
Std Dev 0.8859

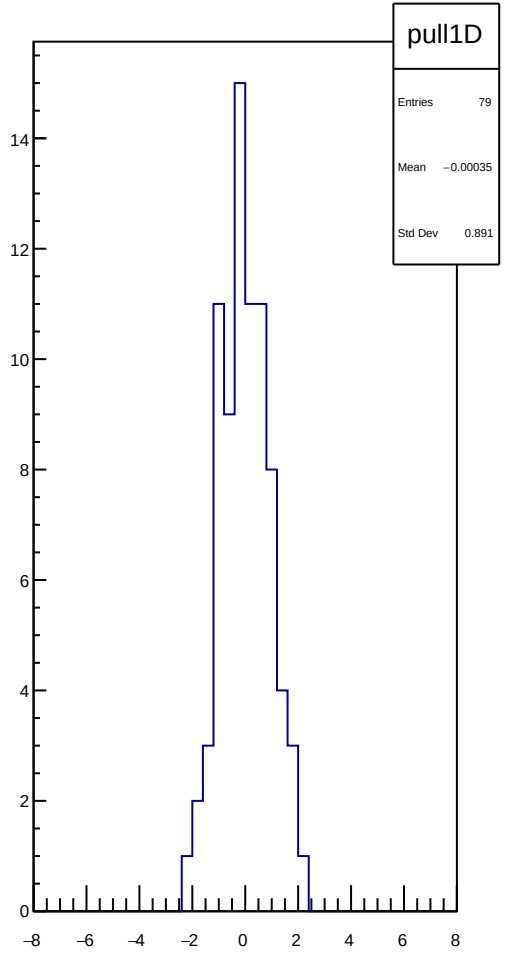

eigen_cor_asym_atl2_rms vs run
χ² / ndf 139.3 / 78
p0 2261 ± 1.826
2380
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180

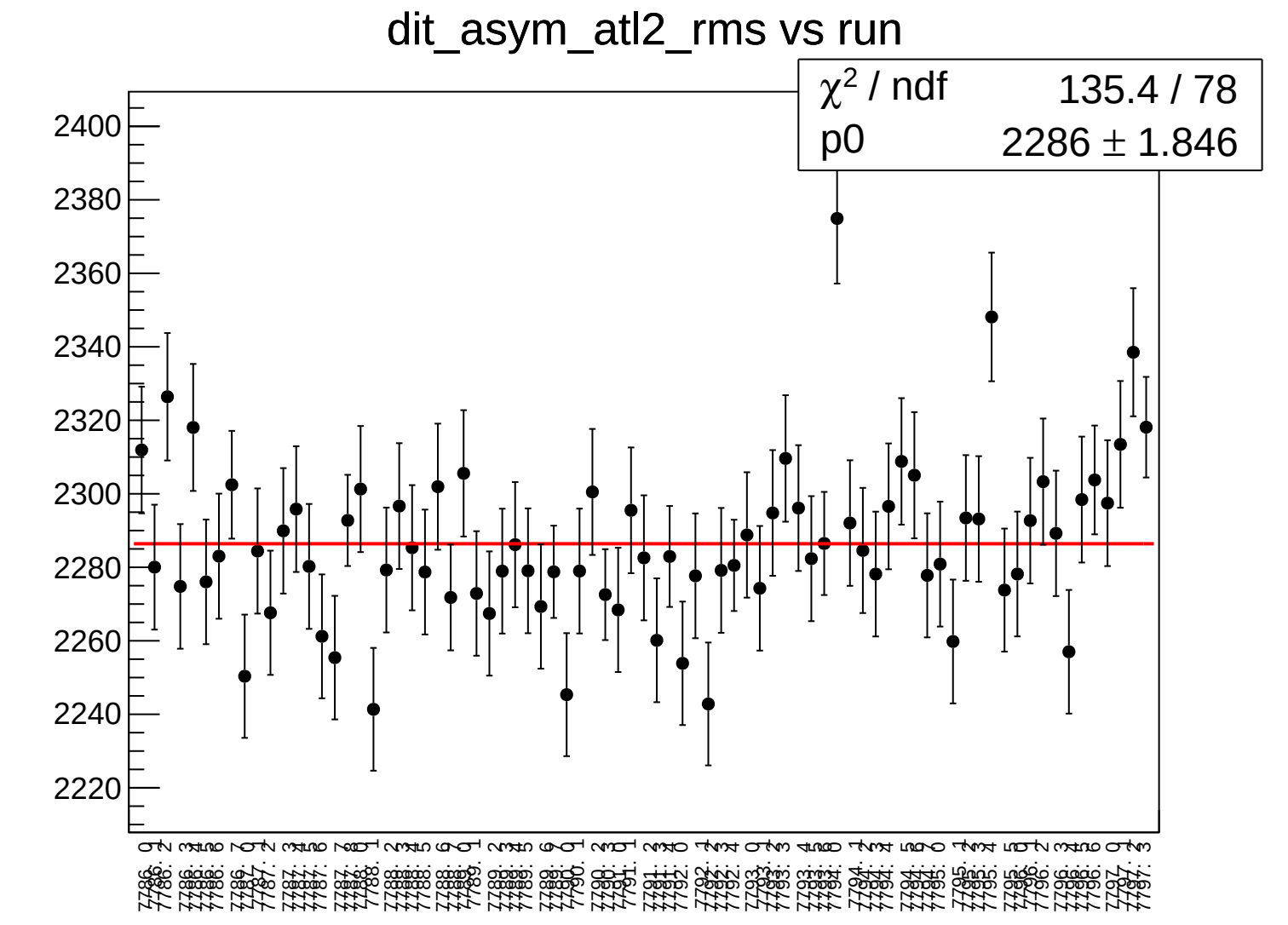

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 77.3 / 78
p0 −3251 ± 9479
pull
Entries 79
Mean −491.4
Std Dev 0

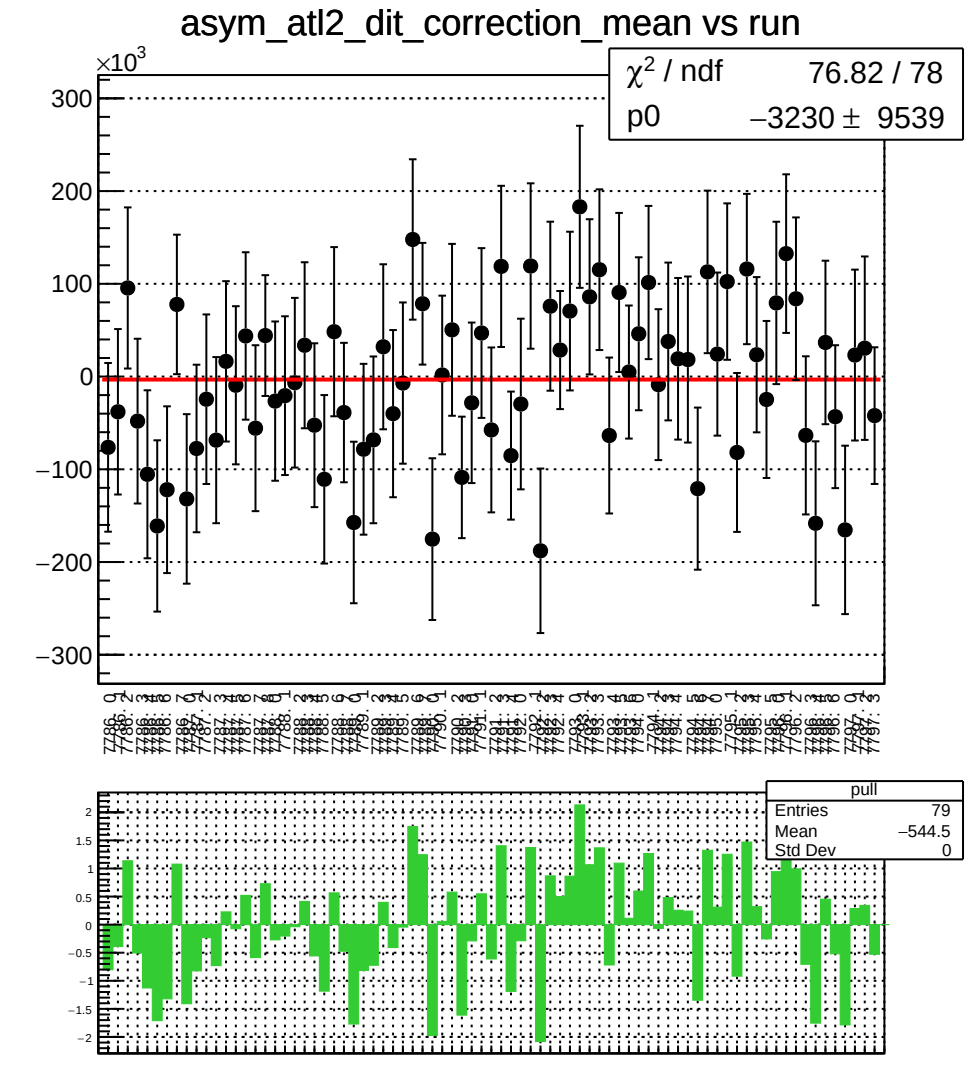

pull1D
Entries 79
Mean −0.009532
Std Dev 0.9891

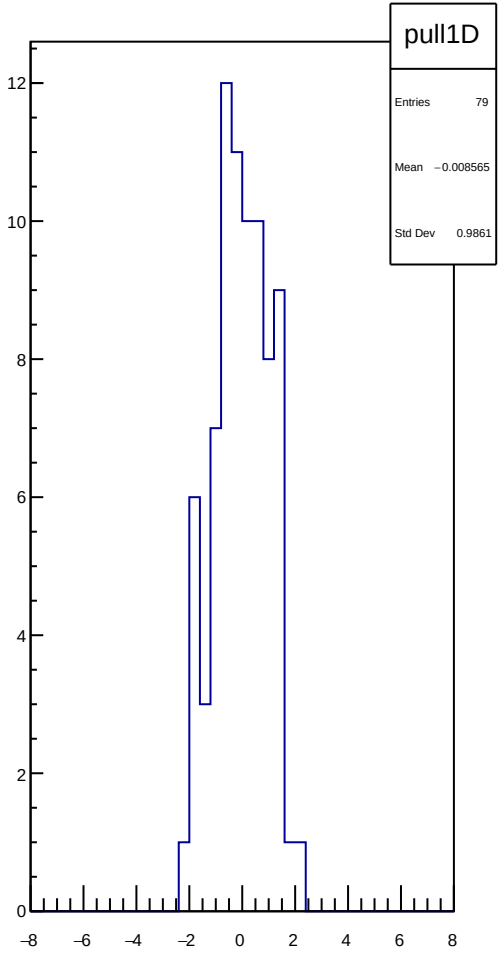

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1792 / 78
p0 8297 ± 6.703
9500
9000
8500
8000
7500

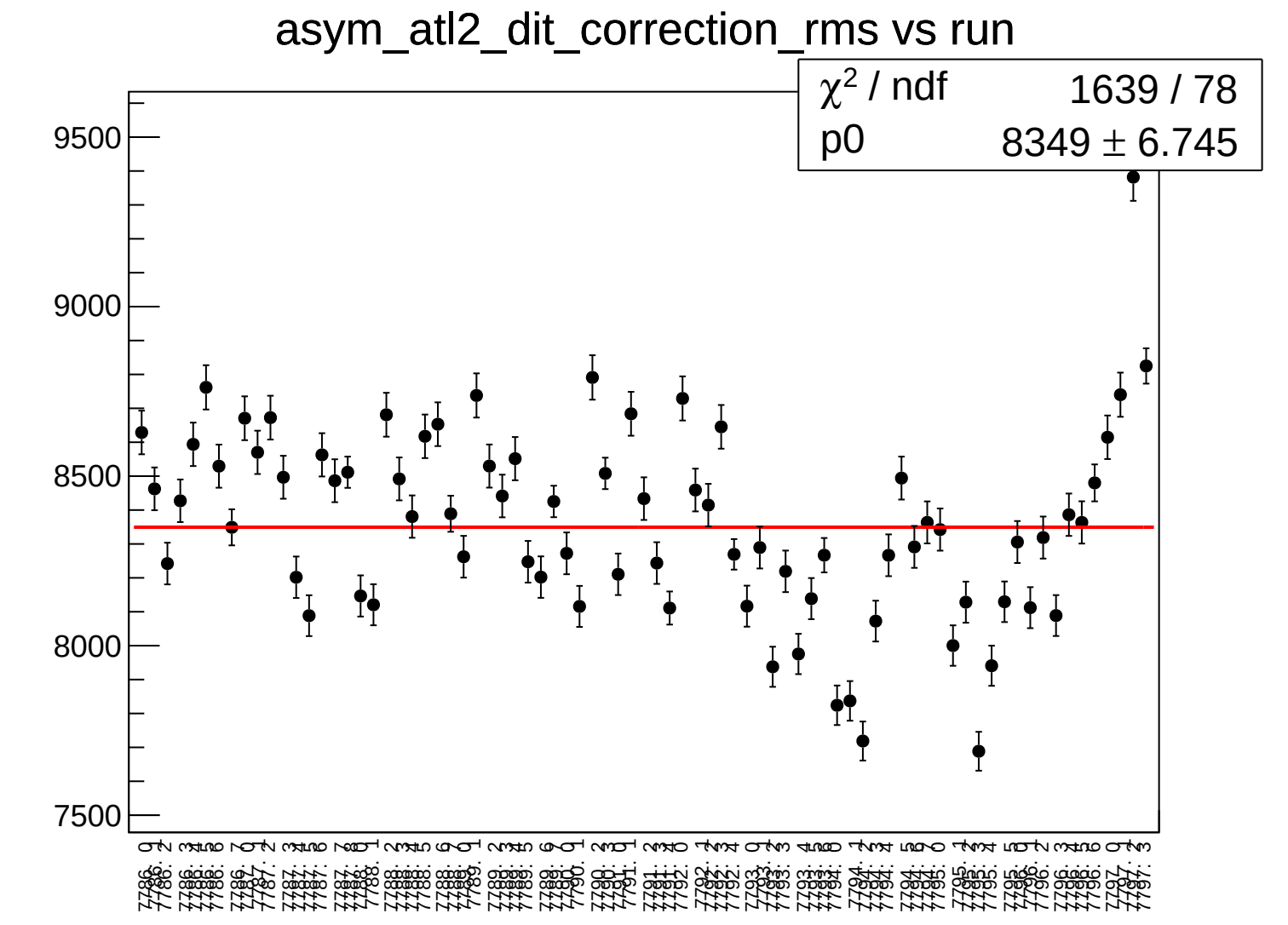

dit_asym_atl2_mean vs run
χ² / ndf 62.71 / 78
p0 −1105 ± 2611
pull
Entries 79
Mean 7680
Std Dev 0

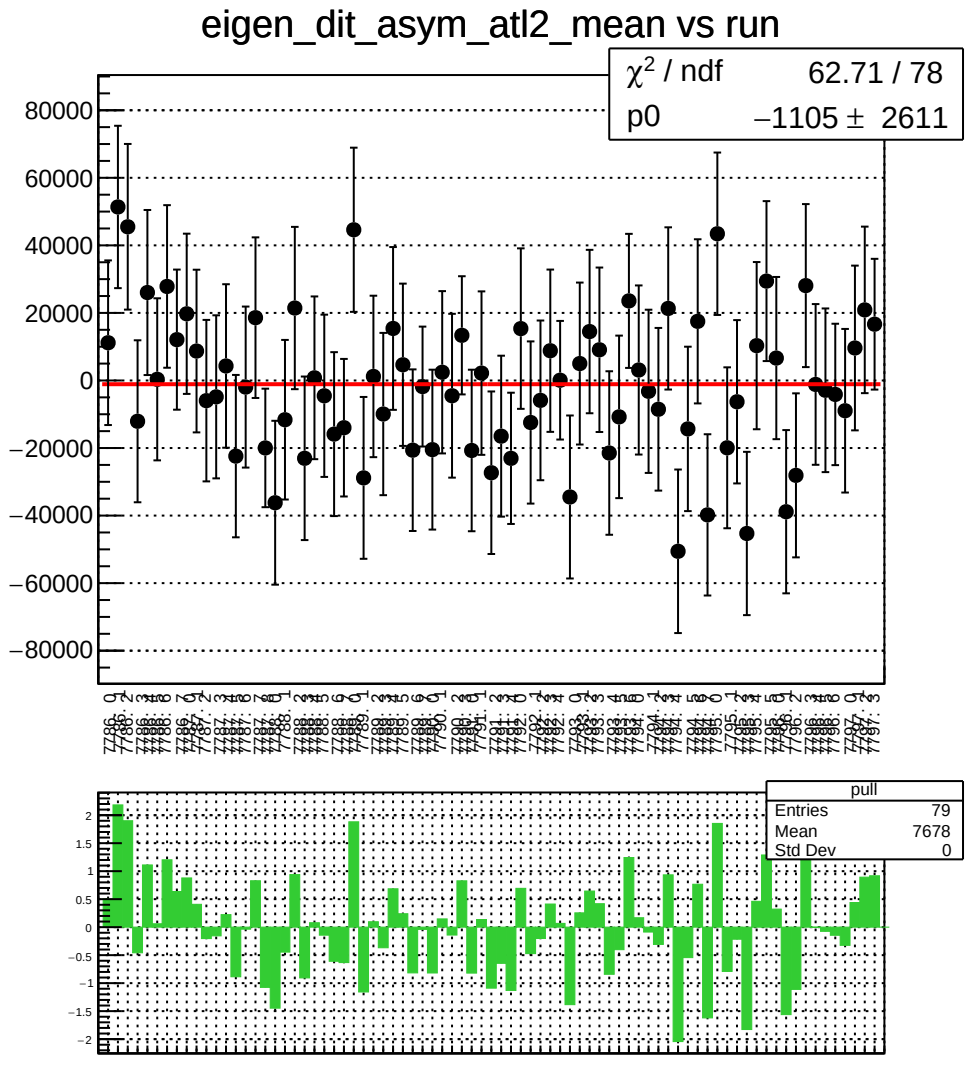

pull1D
Entries 79
Mean −0.00035
Std Dev 0.891

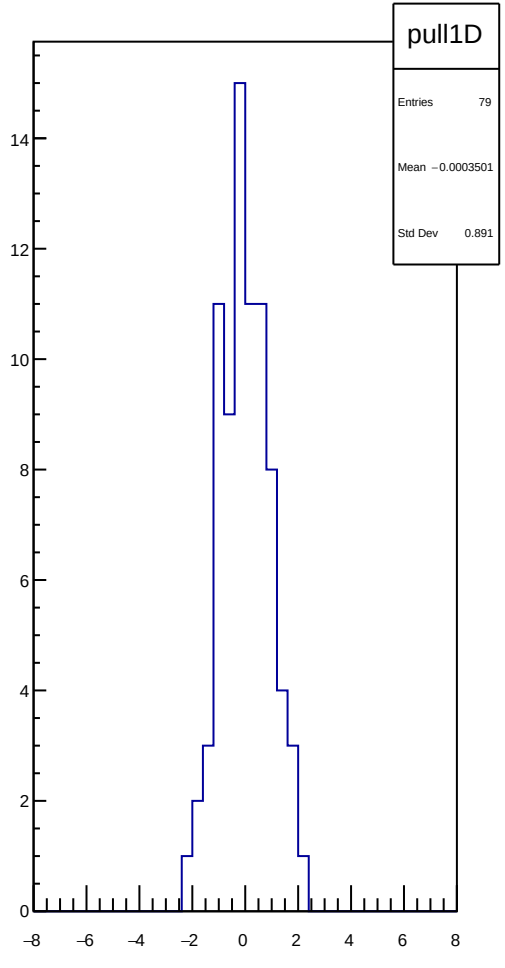

dit_asym_atl2_rms vs run
χ^2 / ndf 135.4 / 78
p0 2286 ± 1.846
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220

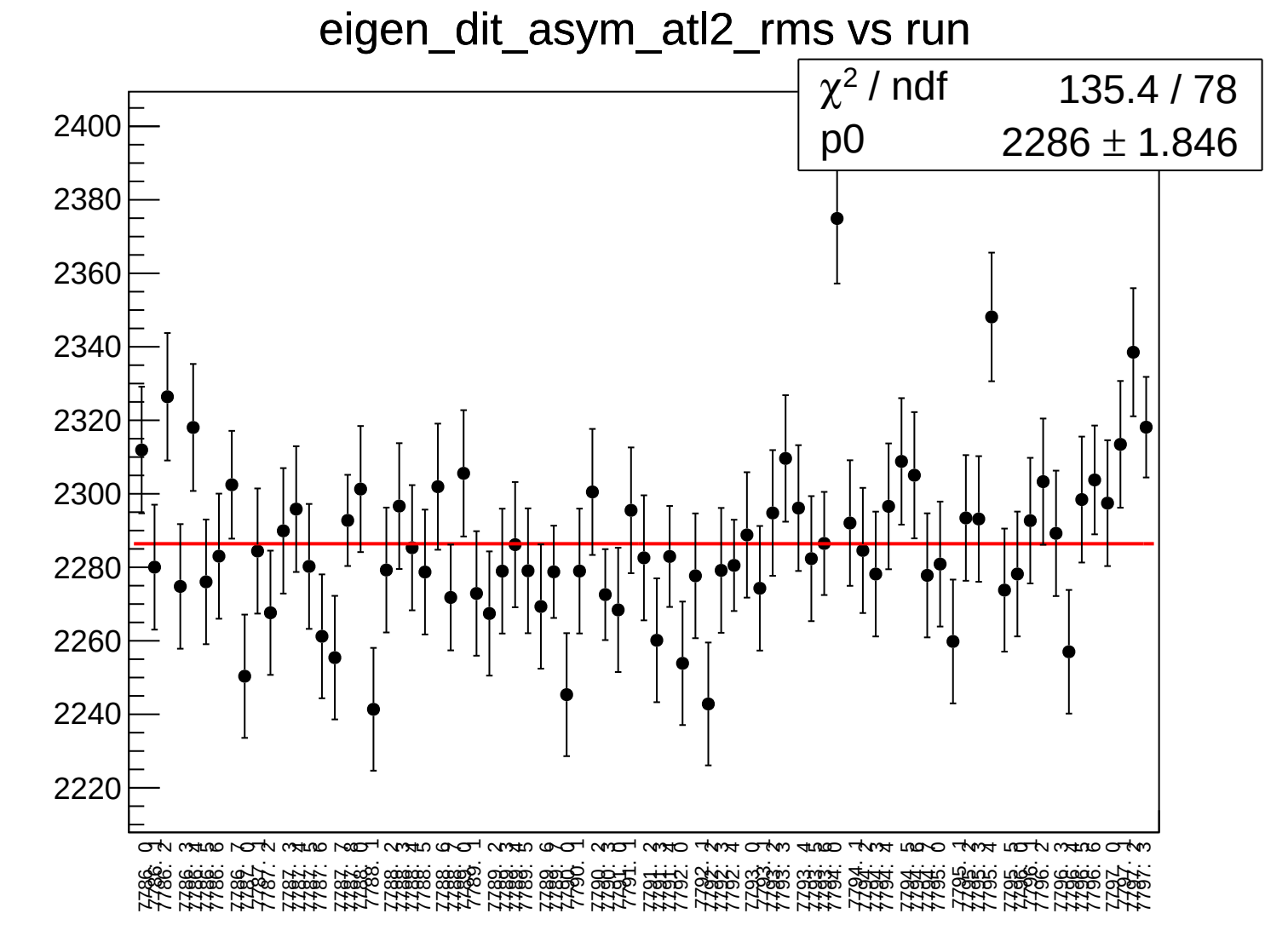

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 76.82 / 78
p0 −3230 ± 9539
pull
Entries 79
Mean −544.5
Std Dev 0

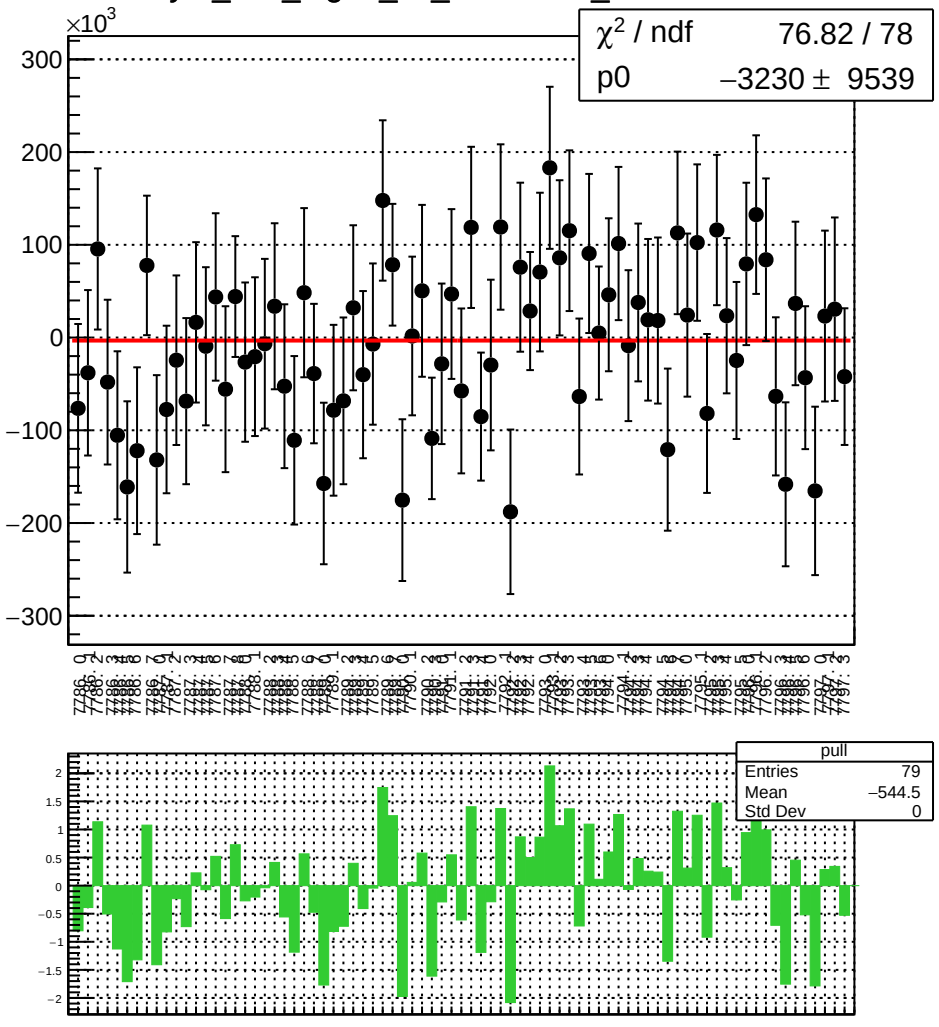

pull1D
Entries 79
Mean −0.008565
Std Dev 0.9861

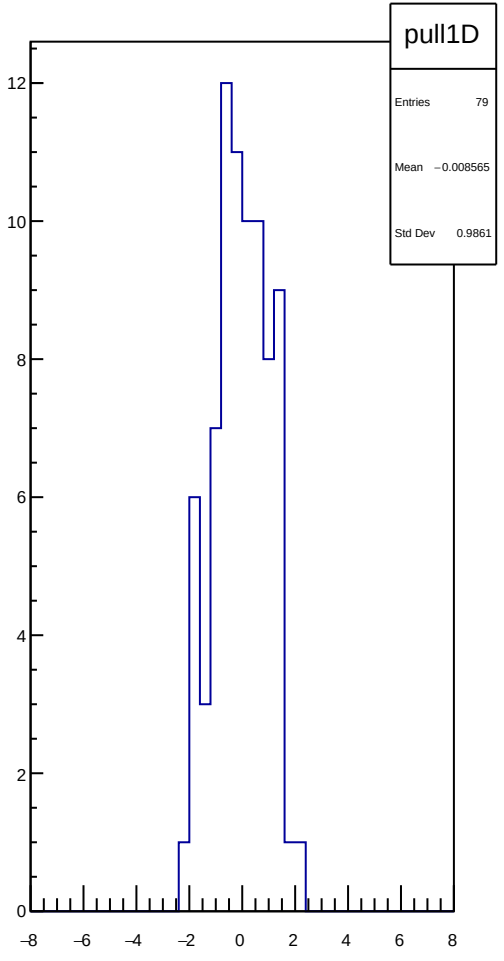

asym_atl2_dit_correction_rms vs run
χ² / ndf 1639 / 78
p0 8349 ± 6.745
9500
9000
8500
8000
7500

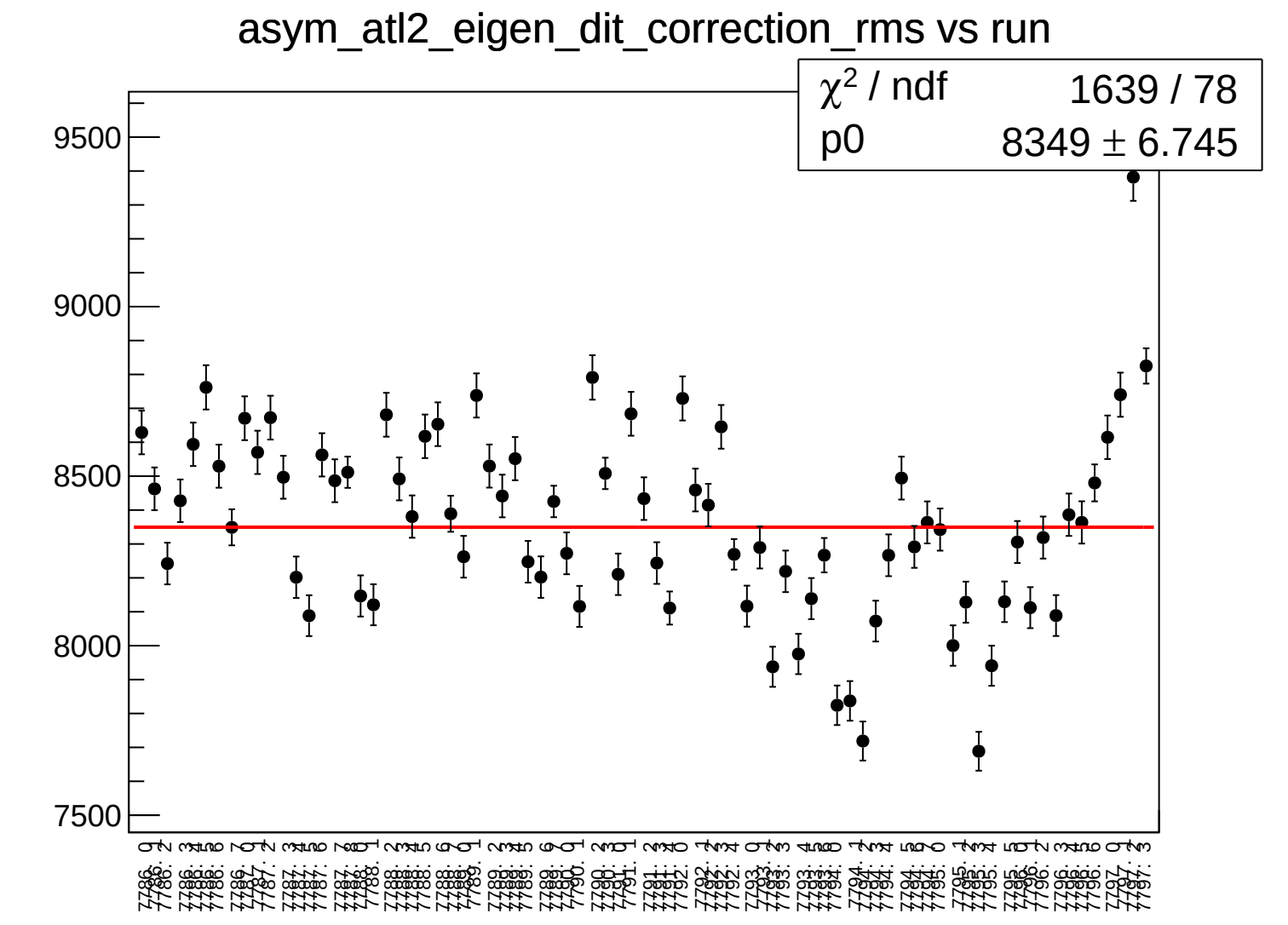

eigen_dit_asym_atl2_mean vs run
χ² / ndf 62.71 / 78
p0 −1105 ± 2611
pull
Entries 79
Mean 7678
Std Dev 0

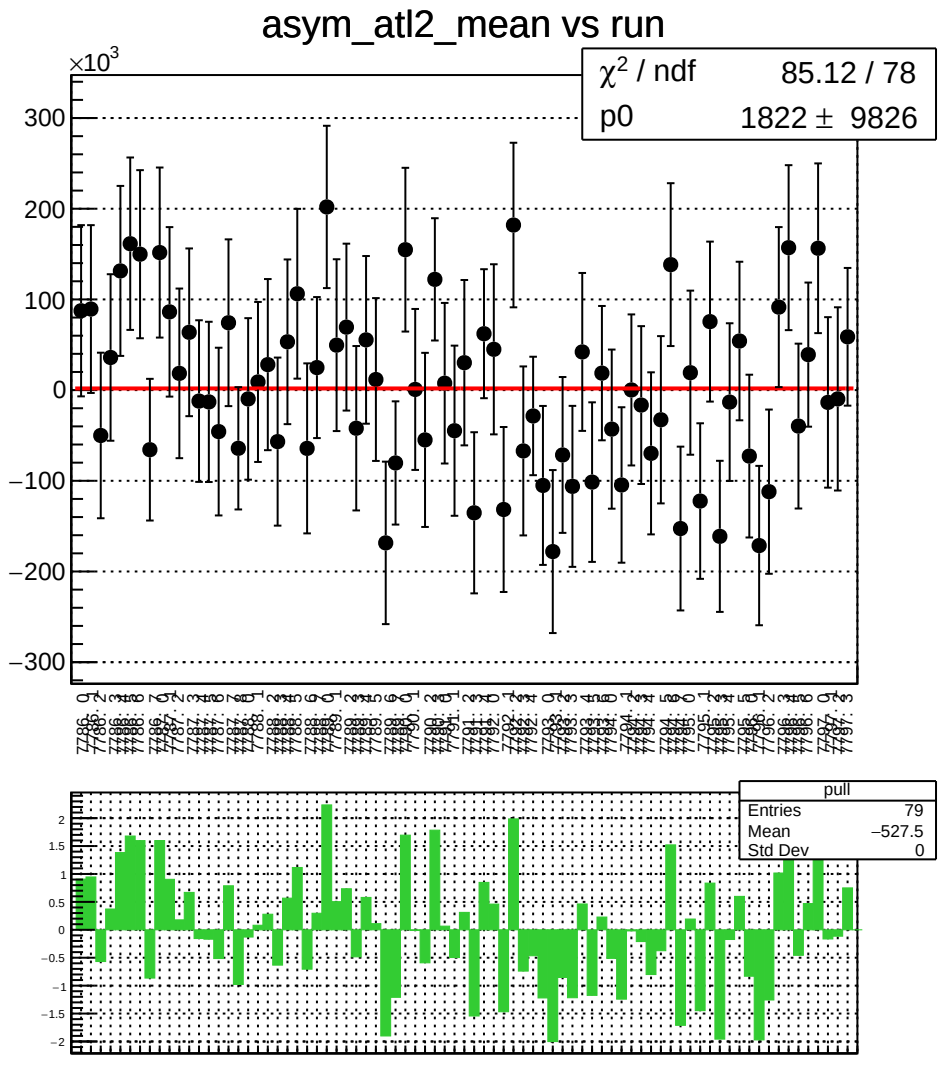

pull1D
Entries 79
Mean −0.0003501
Std Dev 0.891

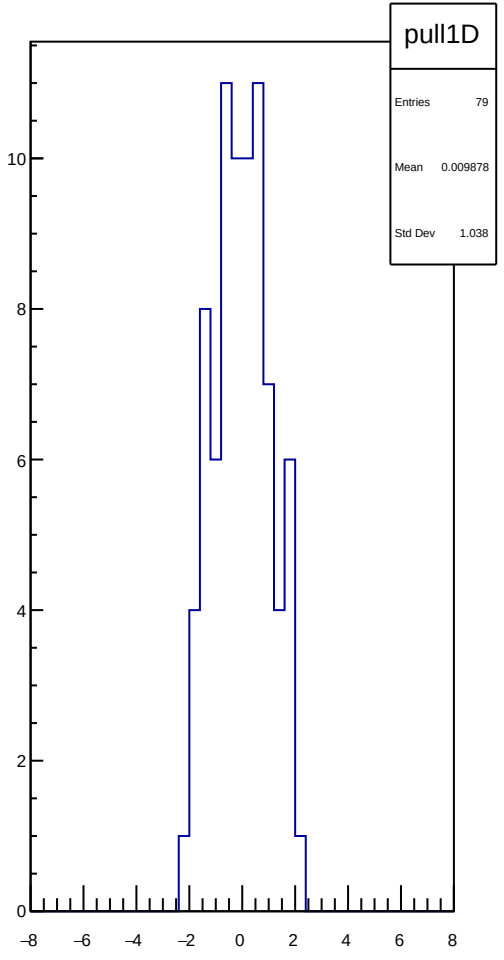

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 135.4 / 78
p0 2286 ± 1.846
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220

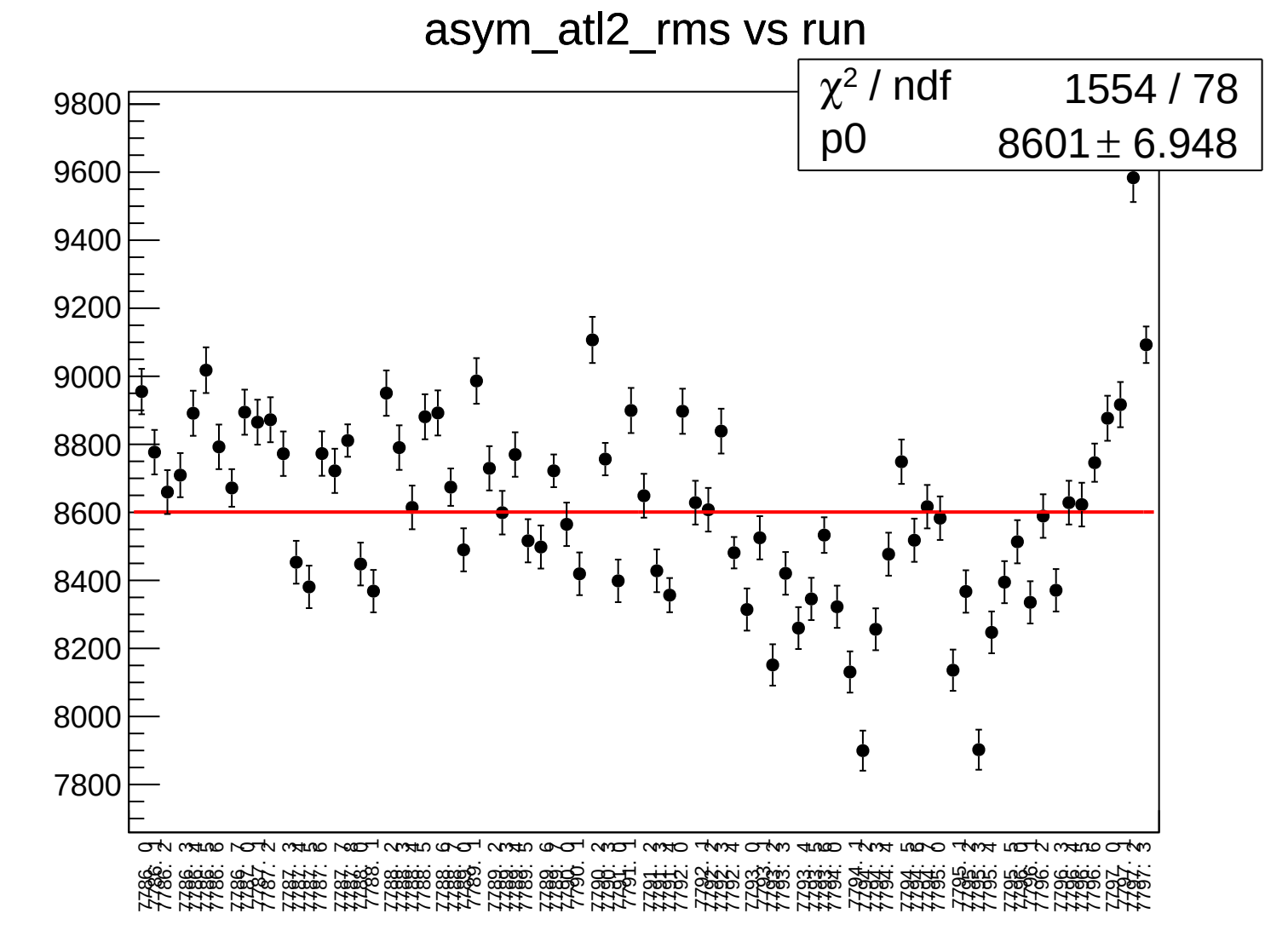

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 76.82 / 78
p0 −3230 ± 9539
pull
Entries 79
Mean −544.5
Std Dev 0

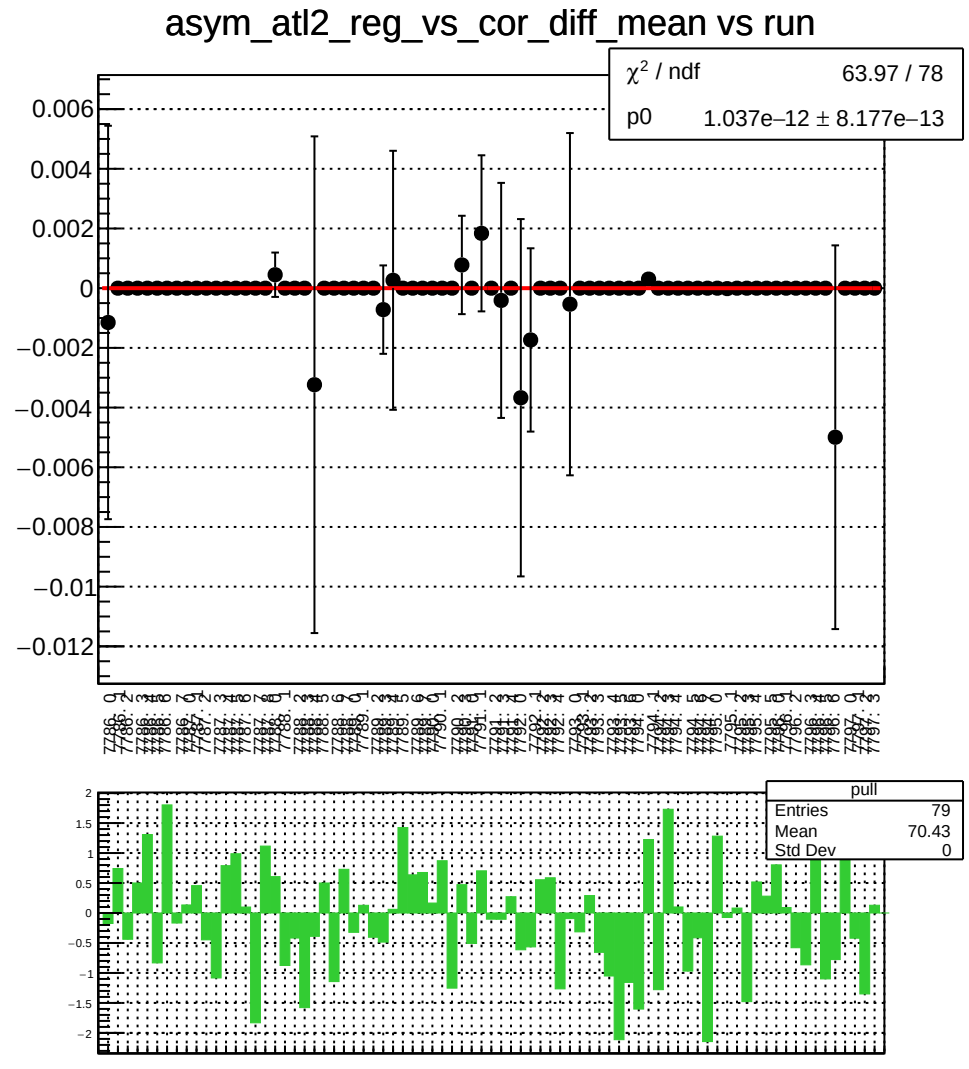

pull1D
Entries 79
Mean −0.008565
Std Dev 0.9861

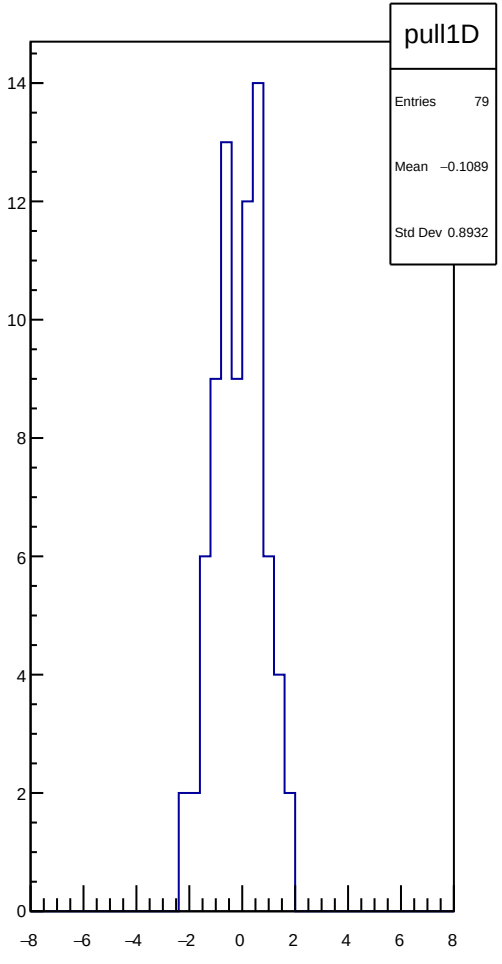

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1639 / 78
p0 8349 ± 6.745
9500
9000
8500
8000
7500

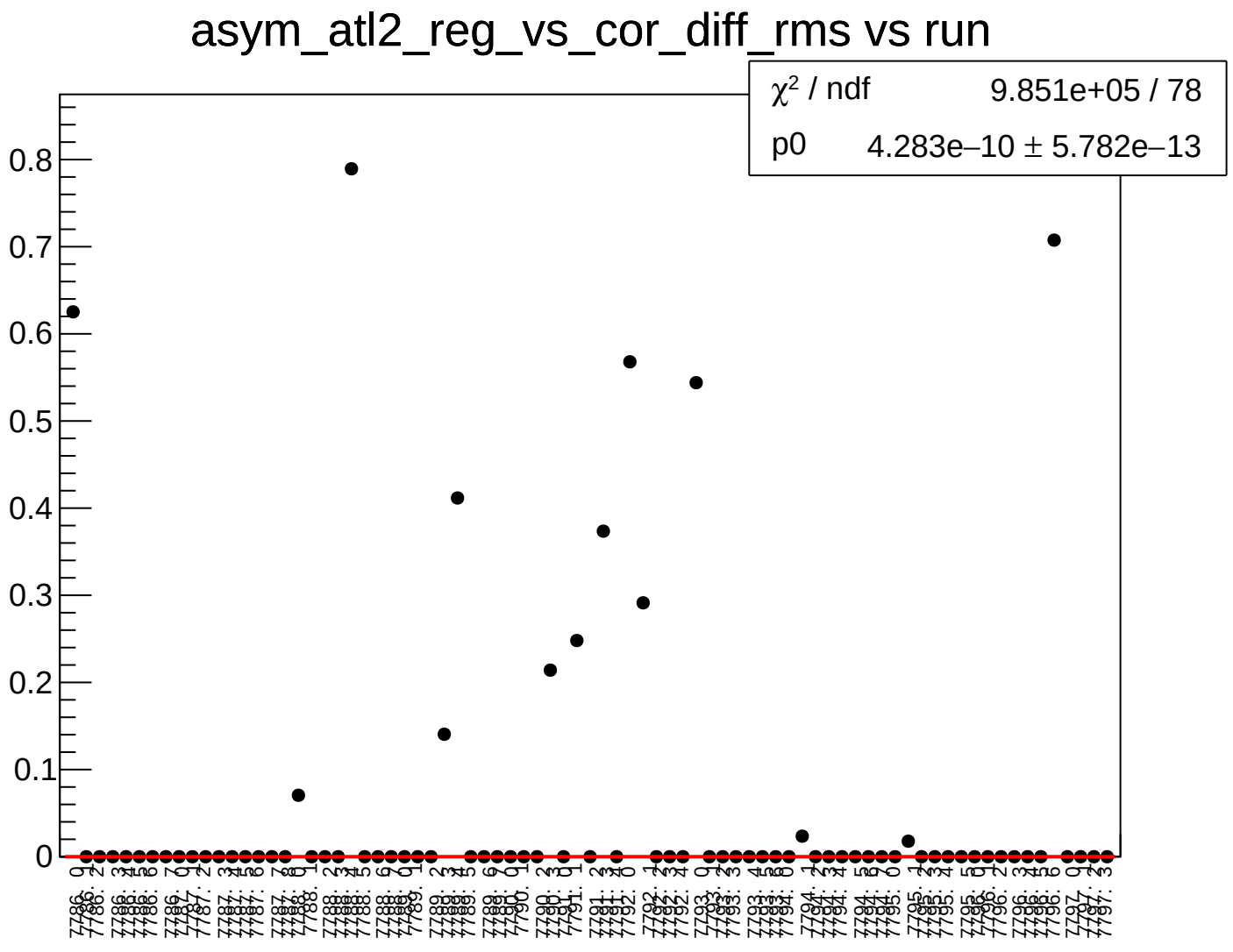

asym_atl2_mean vs run
×10^3
χ² / ndf 85.12 / 78
p0 1822 ± 9826
300
200
100
0
−100
−200
−300
pull
Entries 79
Mean −527.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

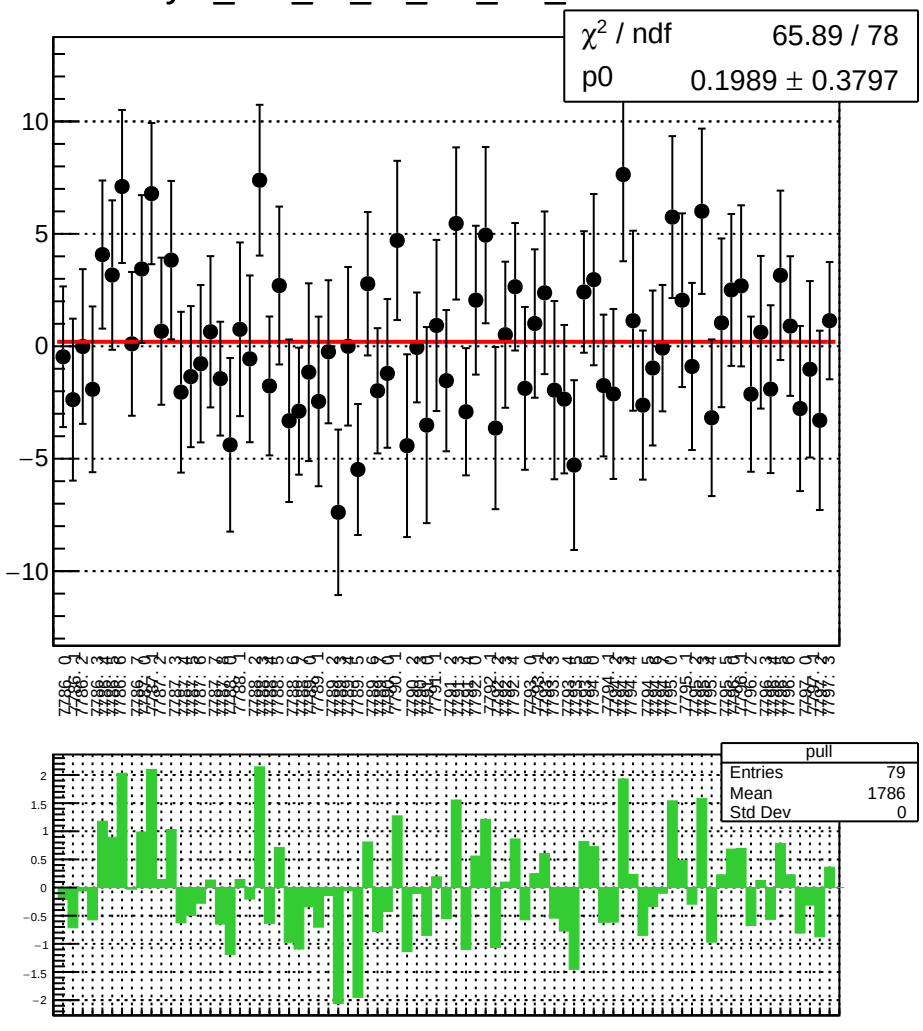

pull1D
Entries 79
Mean 0.009878
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

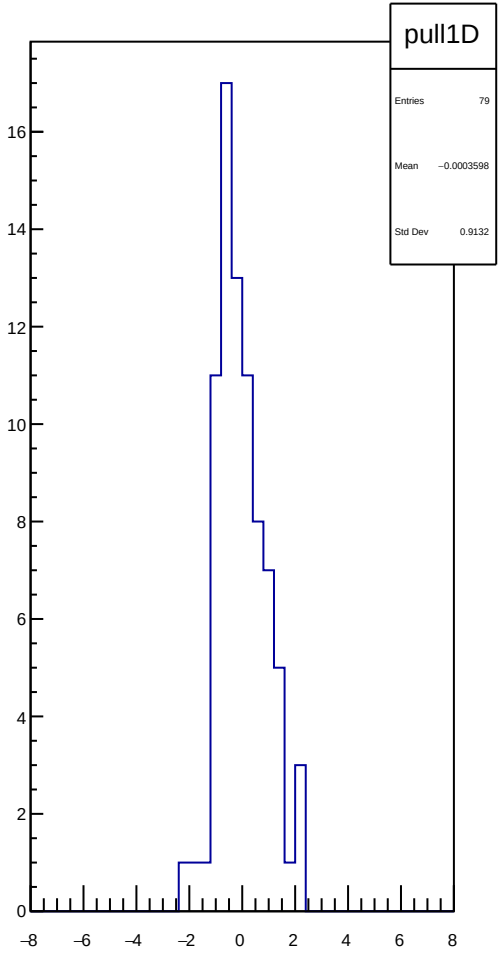

asym_atl2_rms vs run
χ² / ndf 1554 / 78
p0 8601 ± 6.948
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

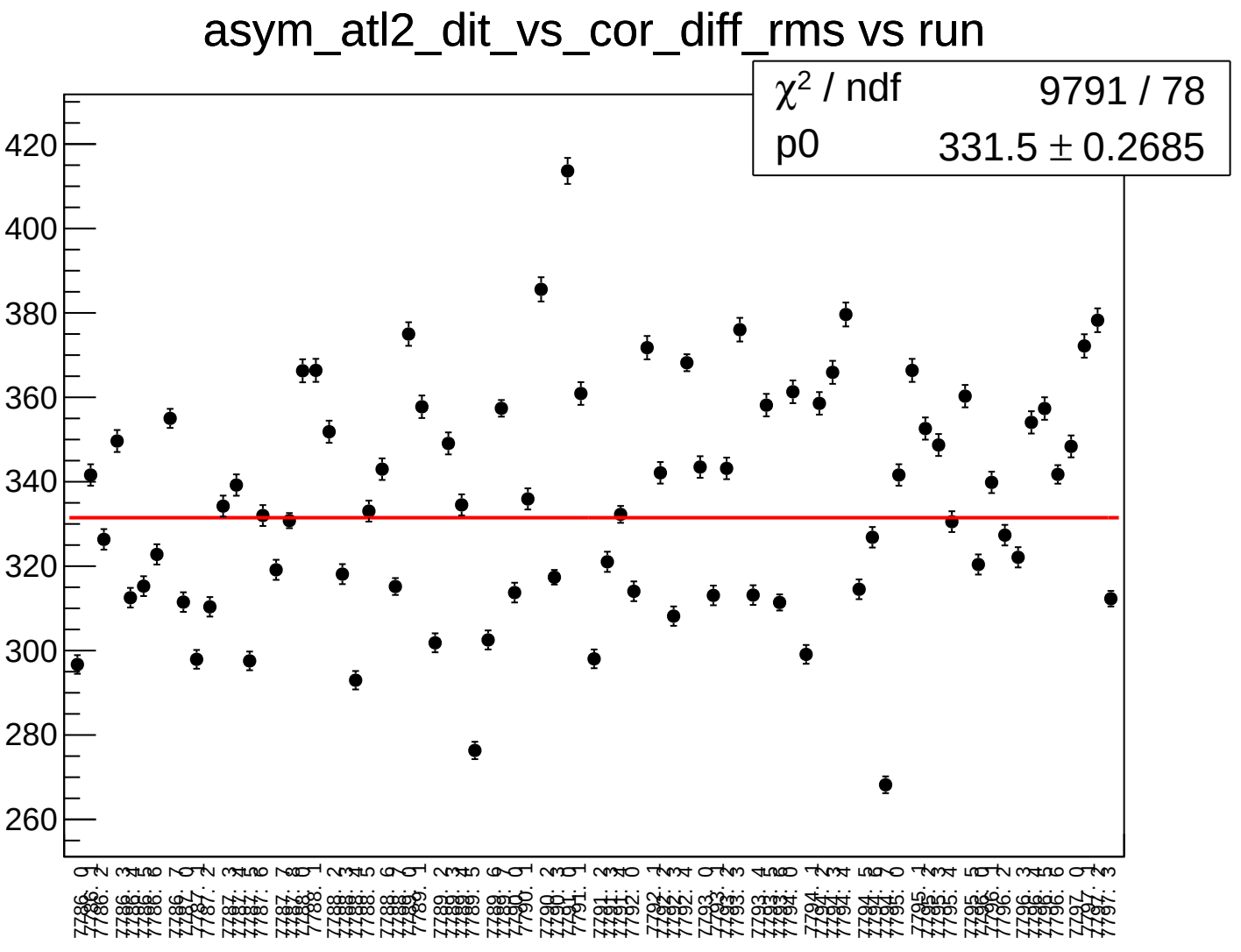

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 63.97 / 78
p0 1.037e−12 ± 8.177e−13
pull
Entries 79
Mean 70.43
Std Dev 0

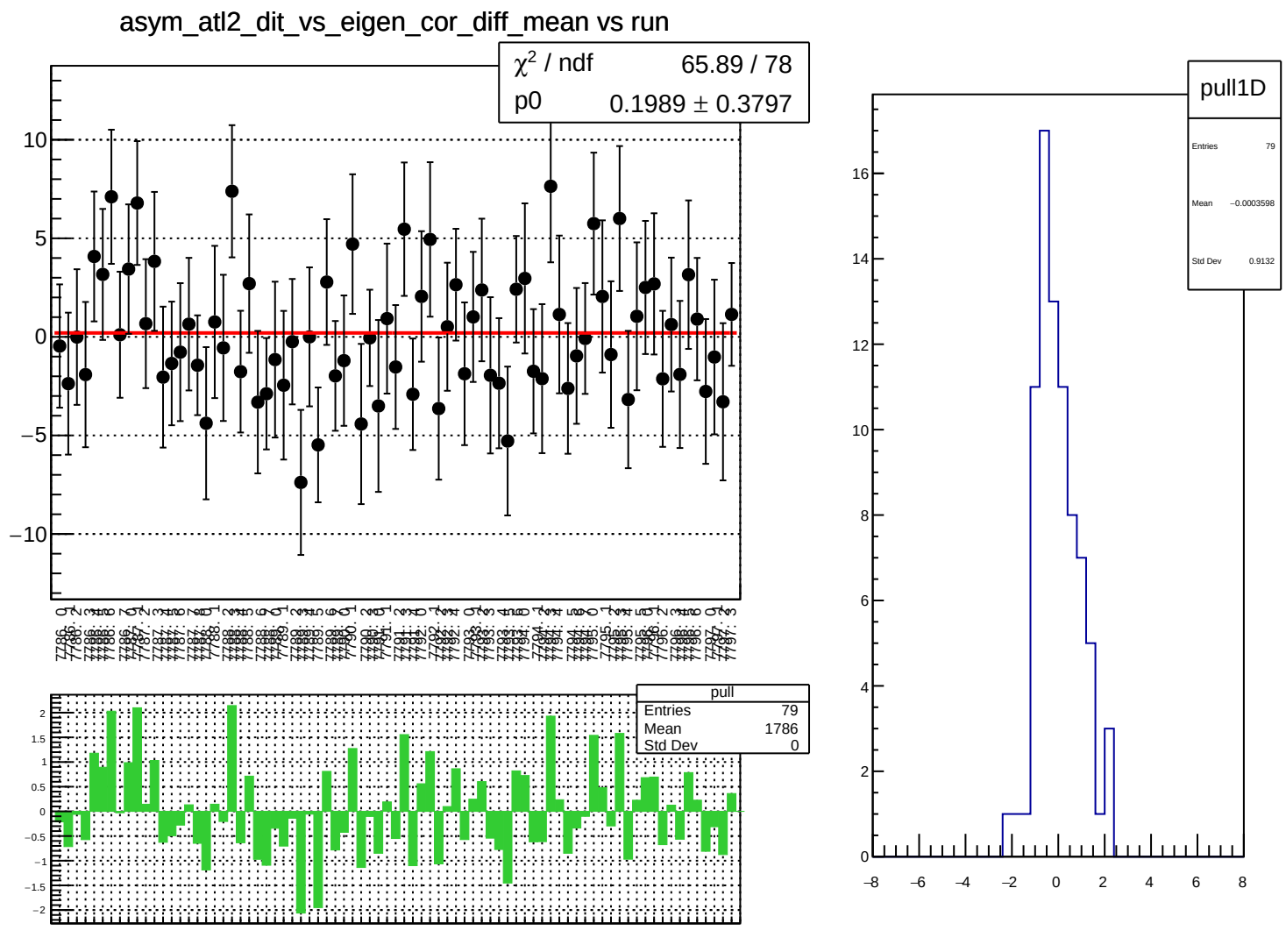

pull1D
Entries 79
Mean −0.1089
Std Dev 0.8932

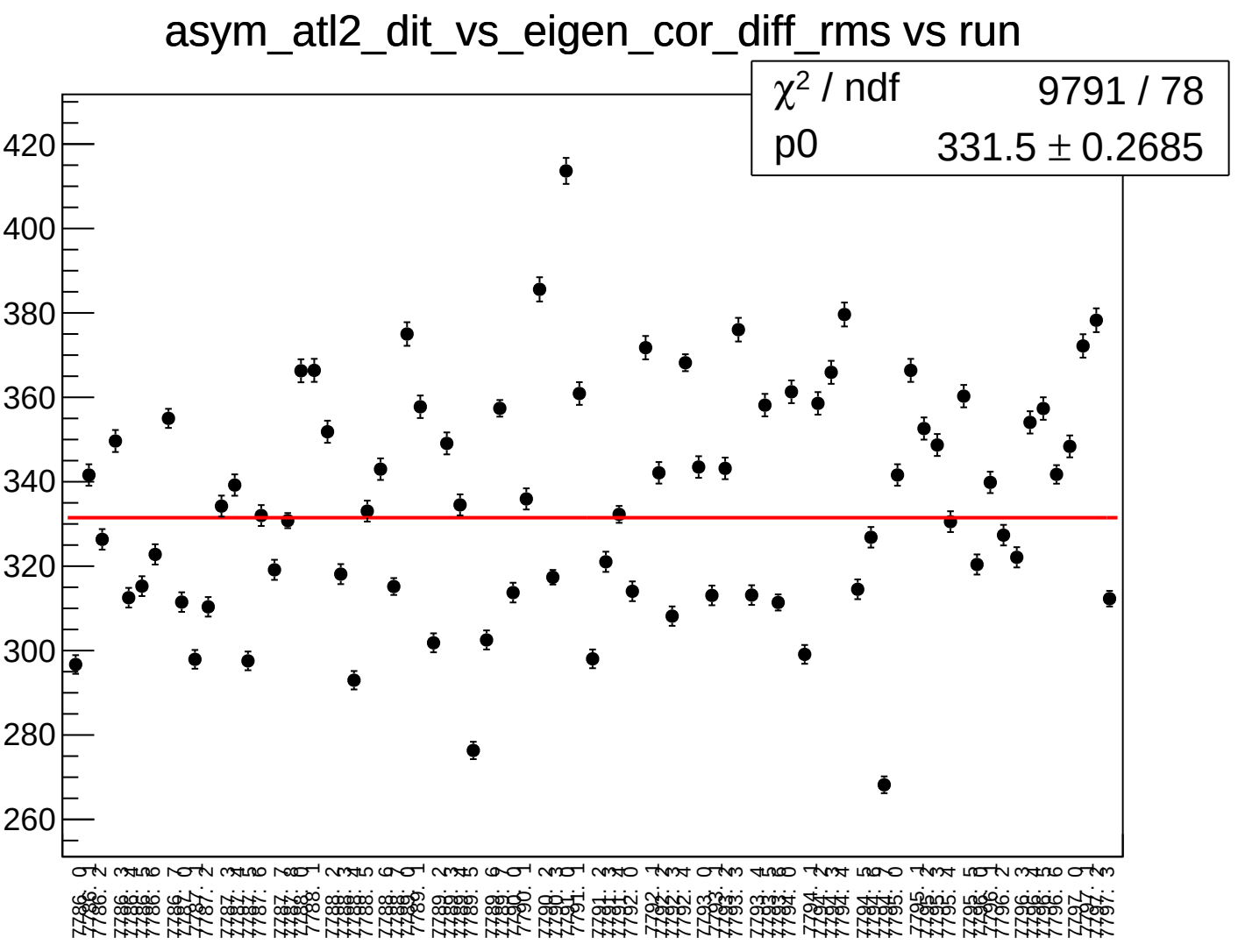

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.851e+05 / 78
p0 4.283e−10 ± 5.782e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

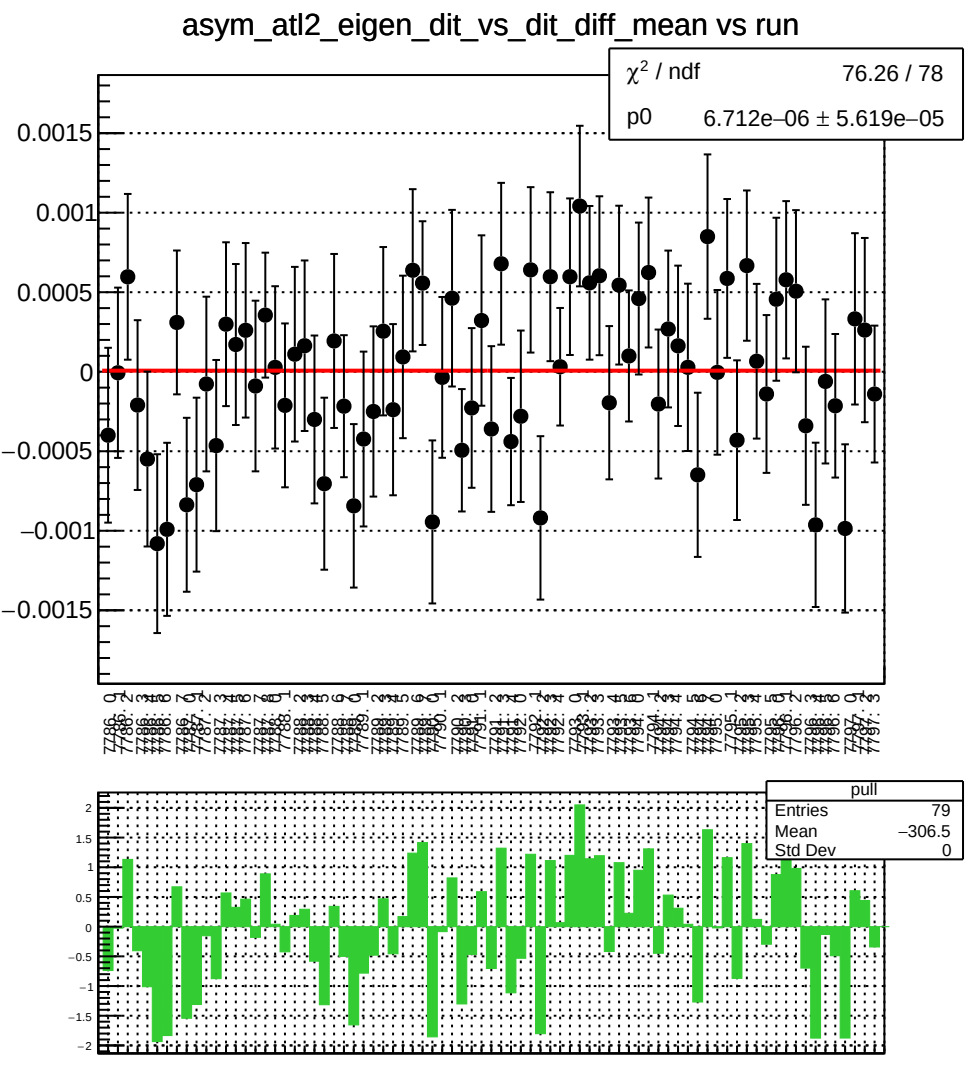

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 65.89 / 78
p0 0.1989 ± 0.3797
pull
Entries 79
Mean 1786
Std Dev 0

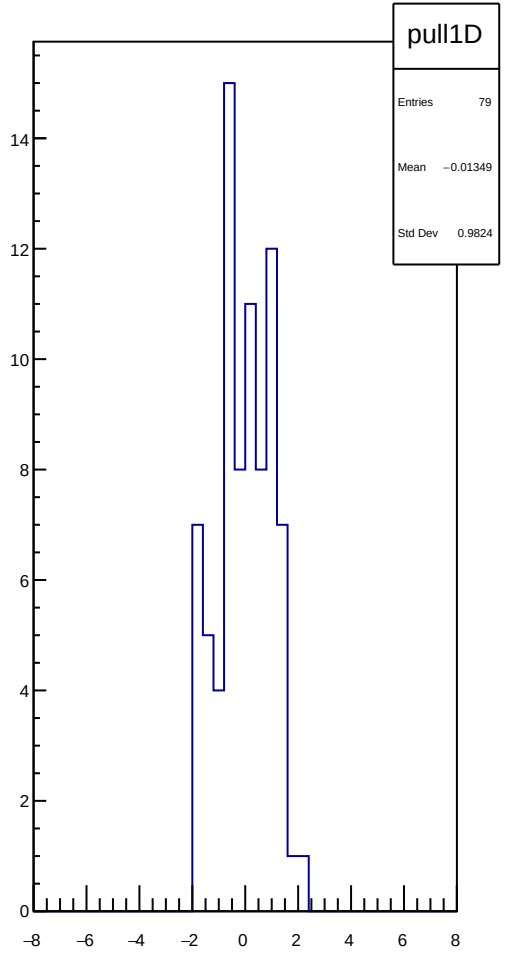

pull1D
Entries 79
Mean −0.0003598
Std Dev 0.9132

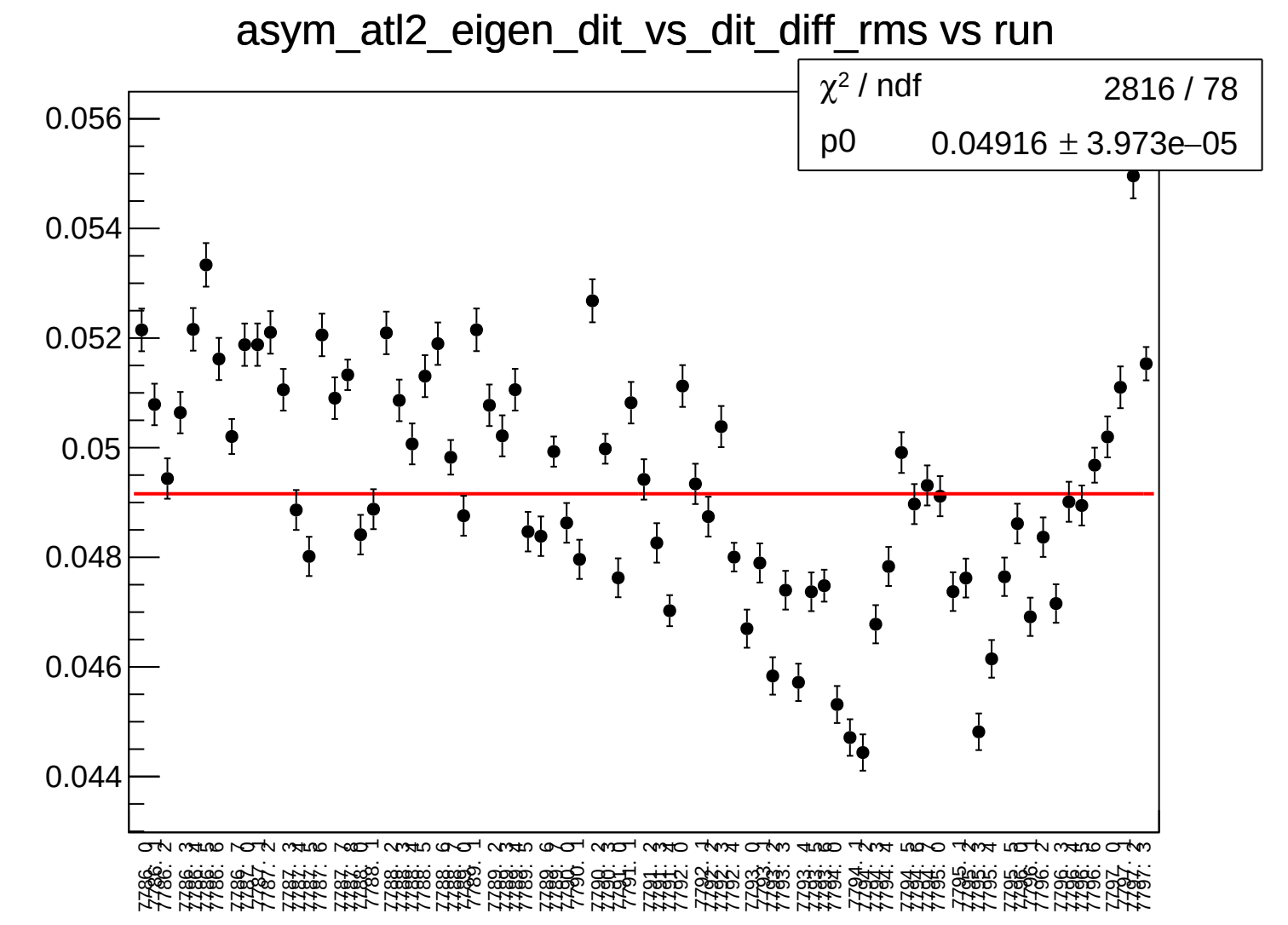

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 9791 / 78
p0 331.5 ± 0.2685
420
400
380
360
340
320
300
280
260

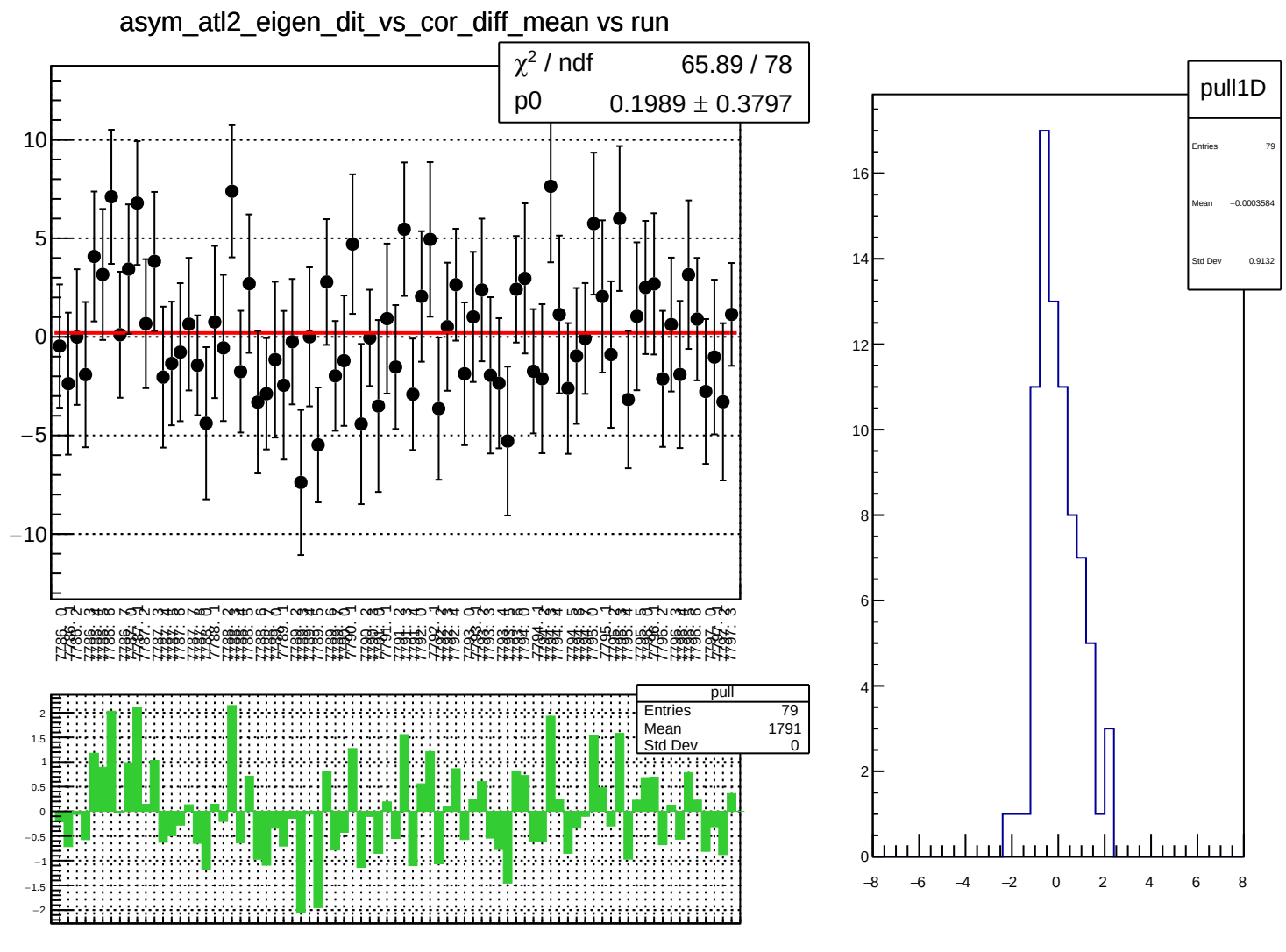

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.89 / 78
p0 0.1989 ± 0.3797
pull
Entries 79
Mean 1786
Std Dev 0
pull1D
Entries 79
Mean −0.0003598
Std Dev 0.9132

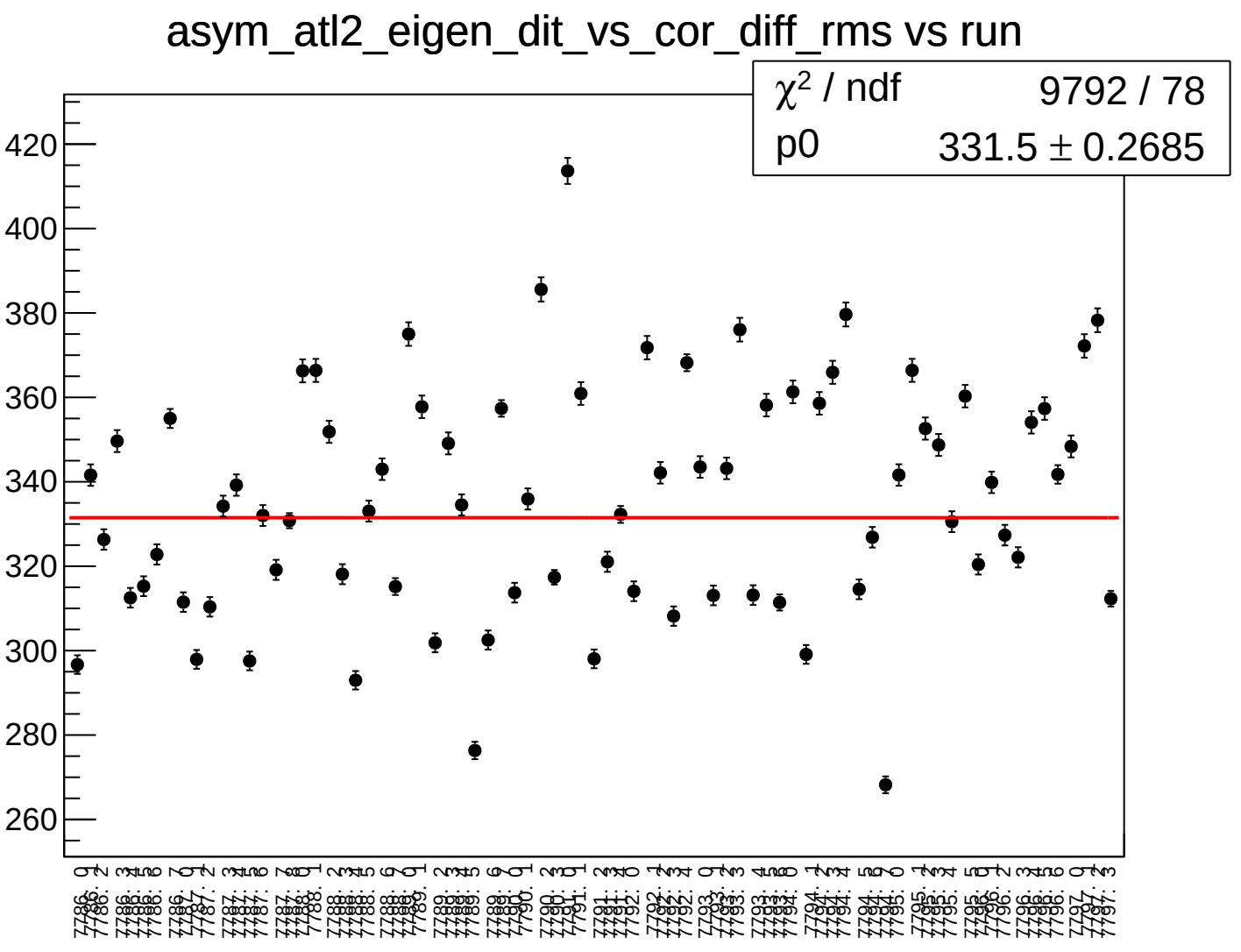

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9791 / 78
p0 331.5 ± 0.2685
420
400
380
360
340
320
300
280
260

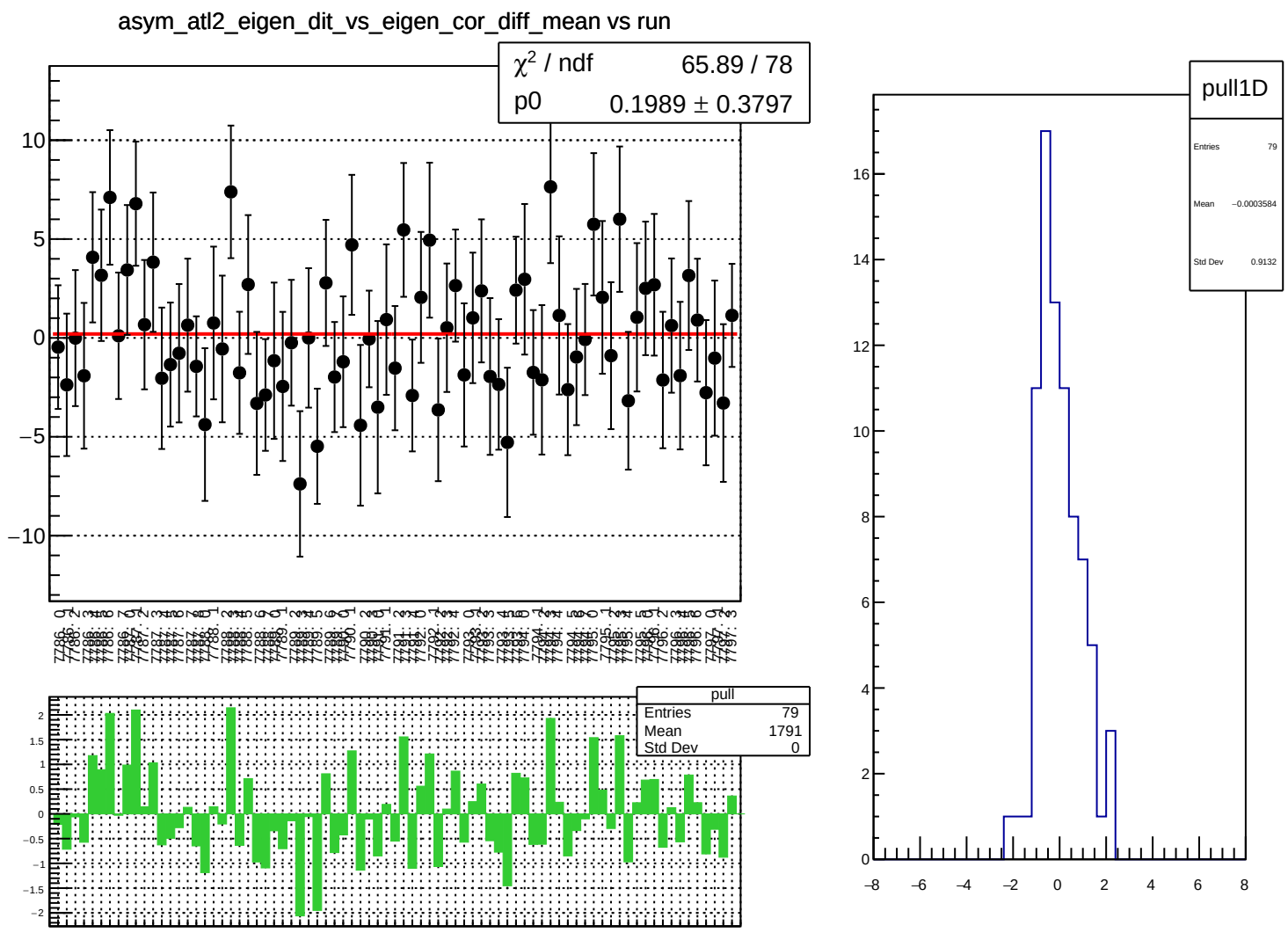

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.26 / 78
p0 6.712e−06 ± 5.619e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 79
Mean −306.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

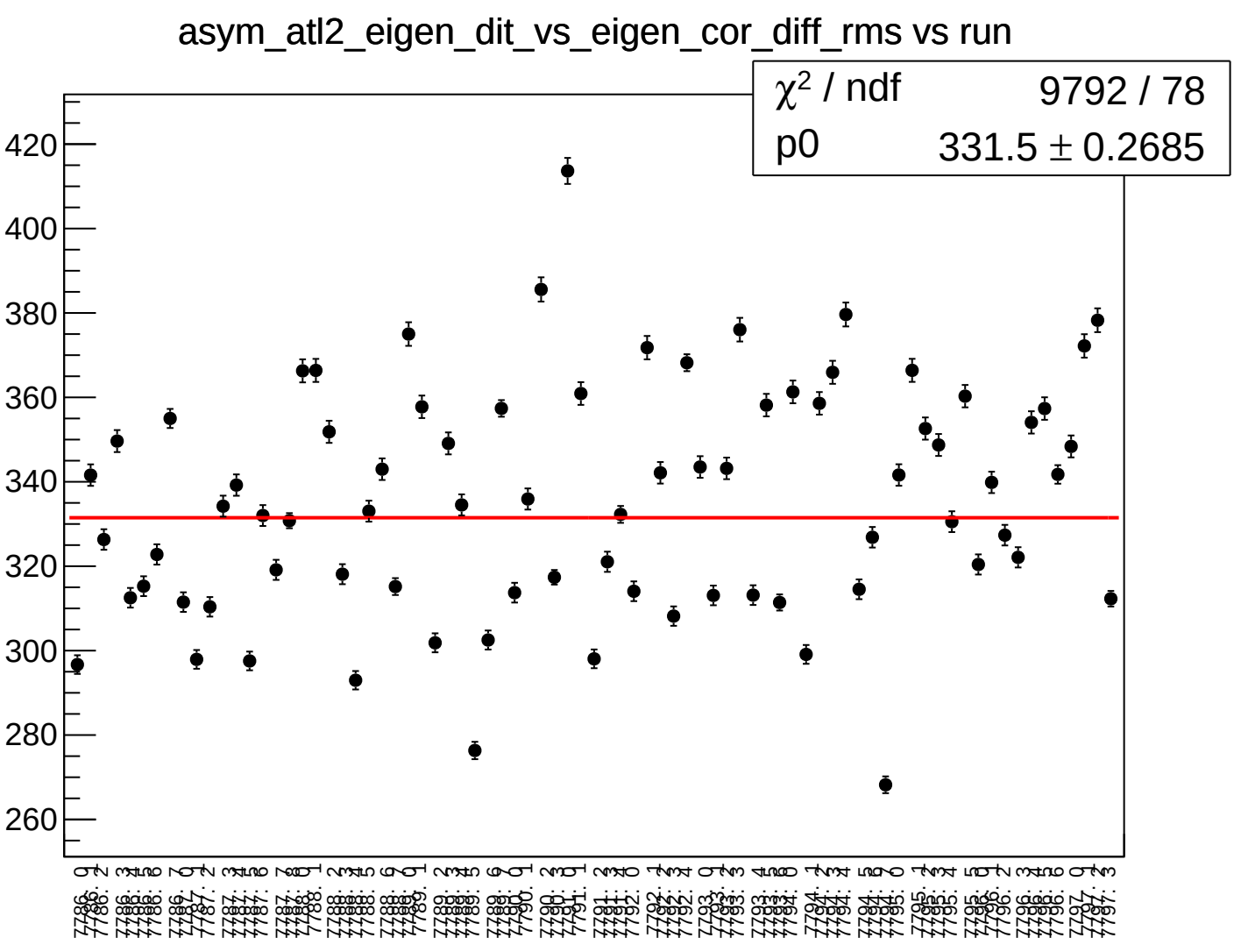

pull1D
Entries 79
Mean −0.01349
Std Dev 0.9824
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

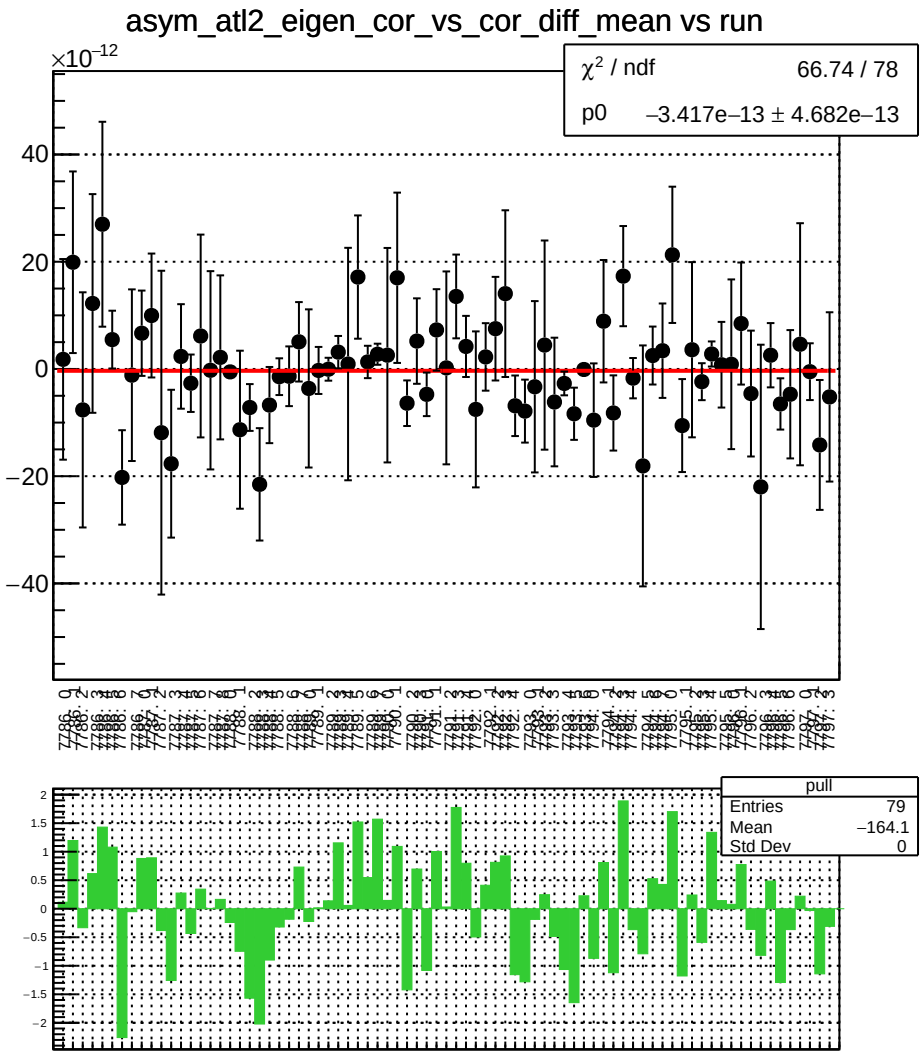

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2816 / 78
p0 0.04916 ± 3.973e−05
0.056
0.054
0.052
0.05
0.048
0.046
0.044

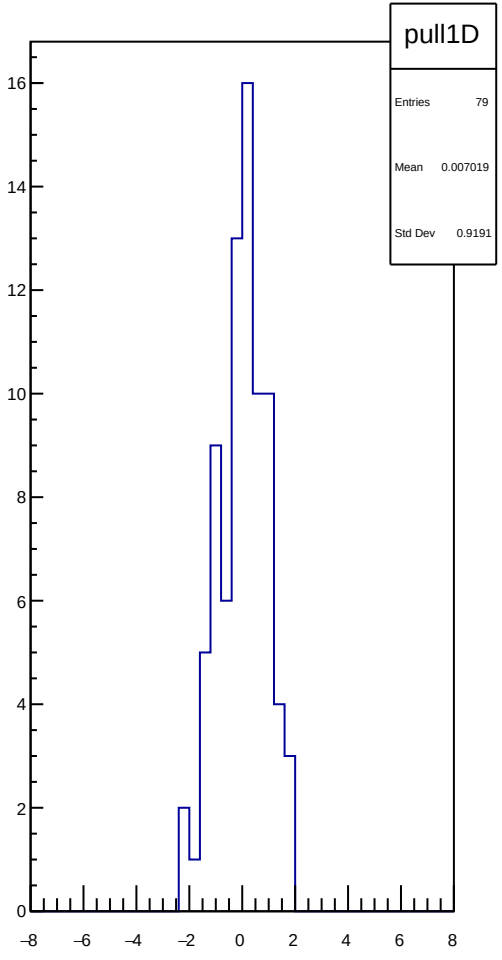

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.89 / 78
p0 0.1989 ± 0.3797
pull
Entries 79
Mean 1791
Std Dev 0
pull1D
Entries 79
Mean −0.0003584
Std Dev 0.9132

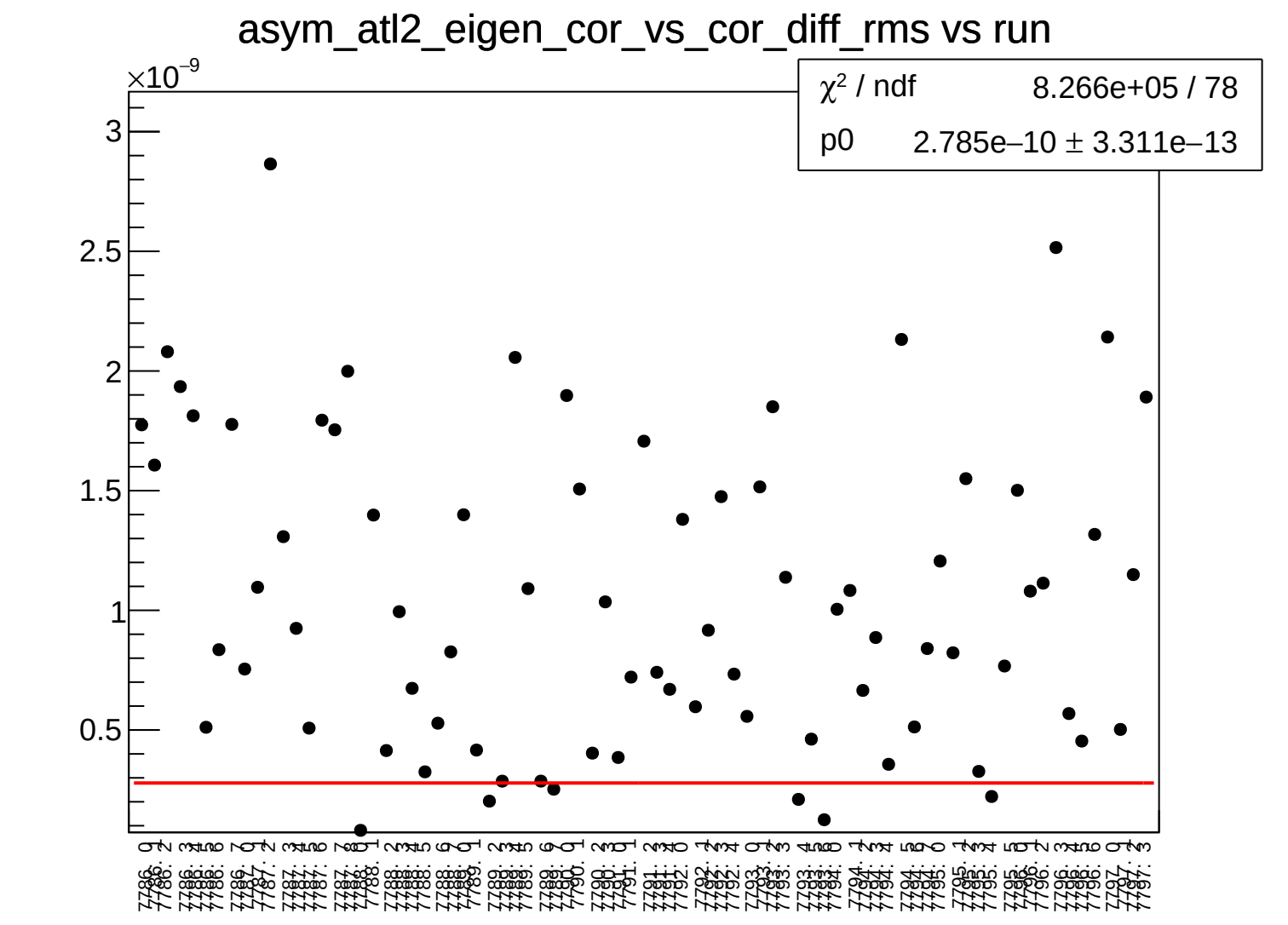

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9792 / 78
p0 331.5 ± 0.2685
420
400
380
360
340
320
300
280
260

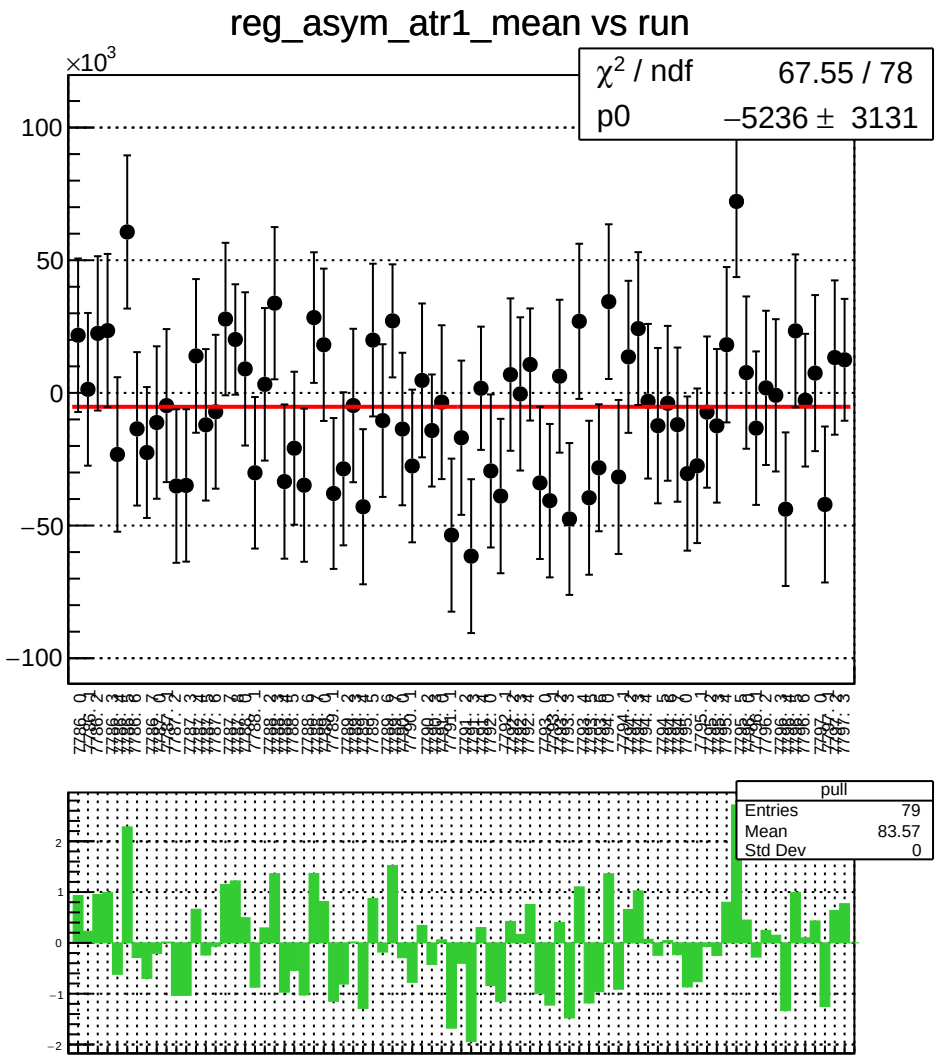

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.89 / 78
p0 0.1989 ± 0.3797
pull
Entries 79
Mean 1791
Std Dev 0
pull1D
Entries 79
Mean −0.0003584
Std Dev 0.9132

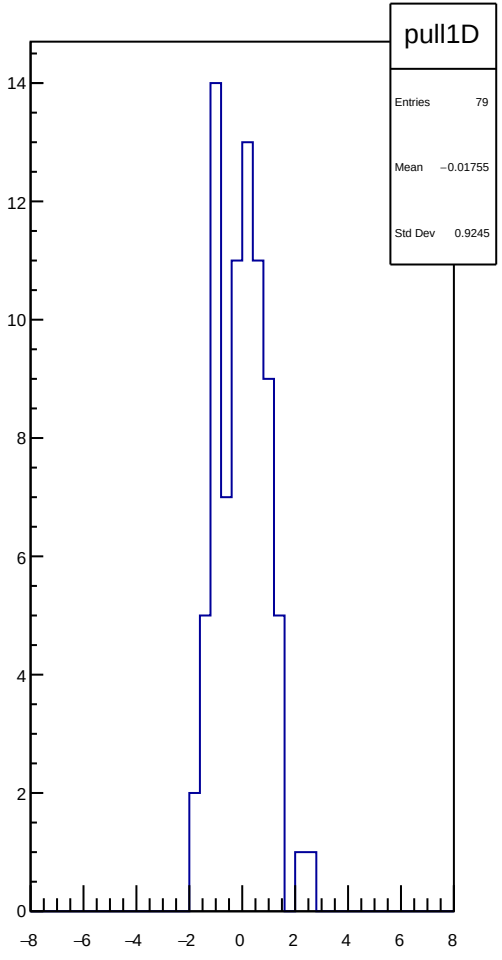

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9792 / 78
p0 331.5 ± 0.2685
420
400
380
360
340
320
300
280
260

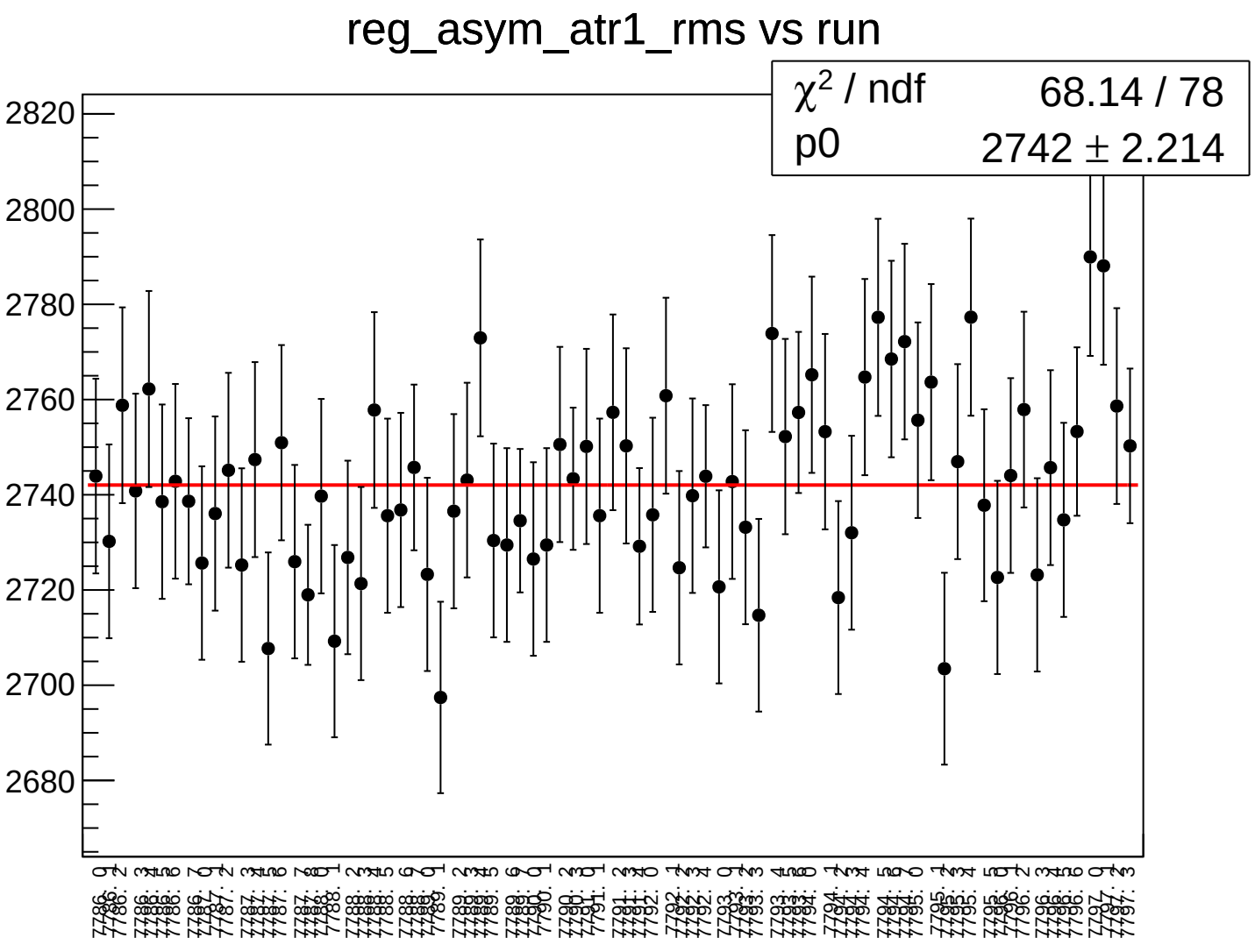

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.74 / 78
p0 −3.417e−13 ± 4.682e−13
40
20
0
−20
−40
pull
Entries 79
Mean −164.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

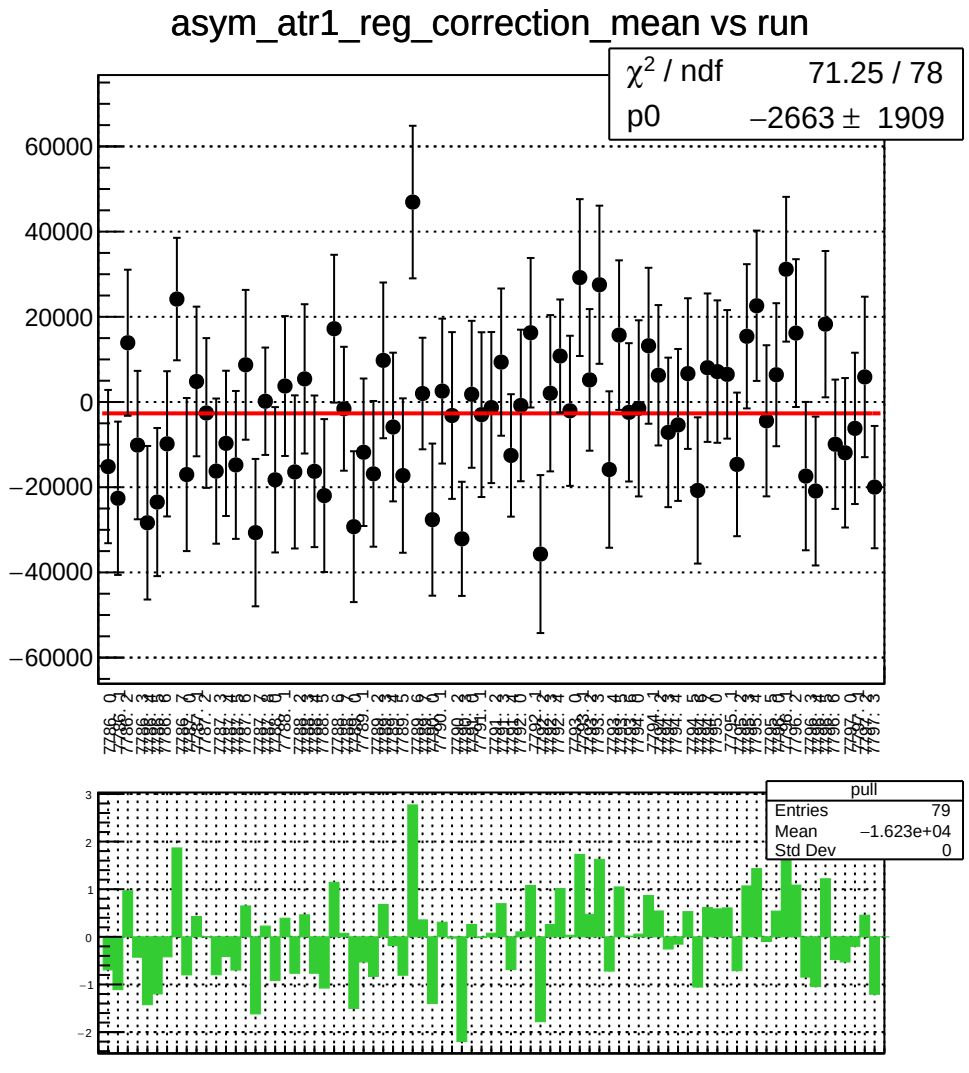

pull1D
Entries 79
Mean 0.007019
Std Dev 0.9191
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

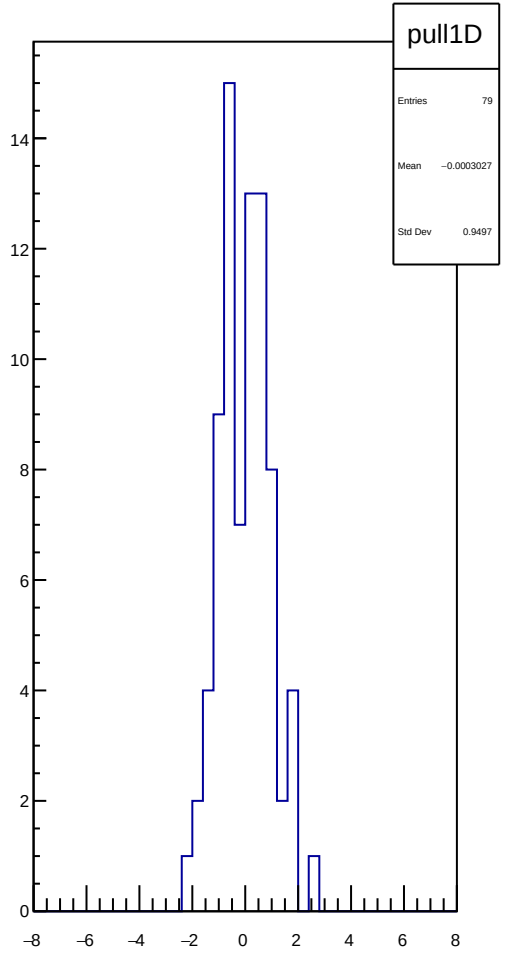

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.266e+05 / 78
p0 2.785e−10 ± 3.311e−13
3
2.5
2
1.5
1
0.5

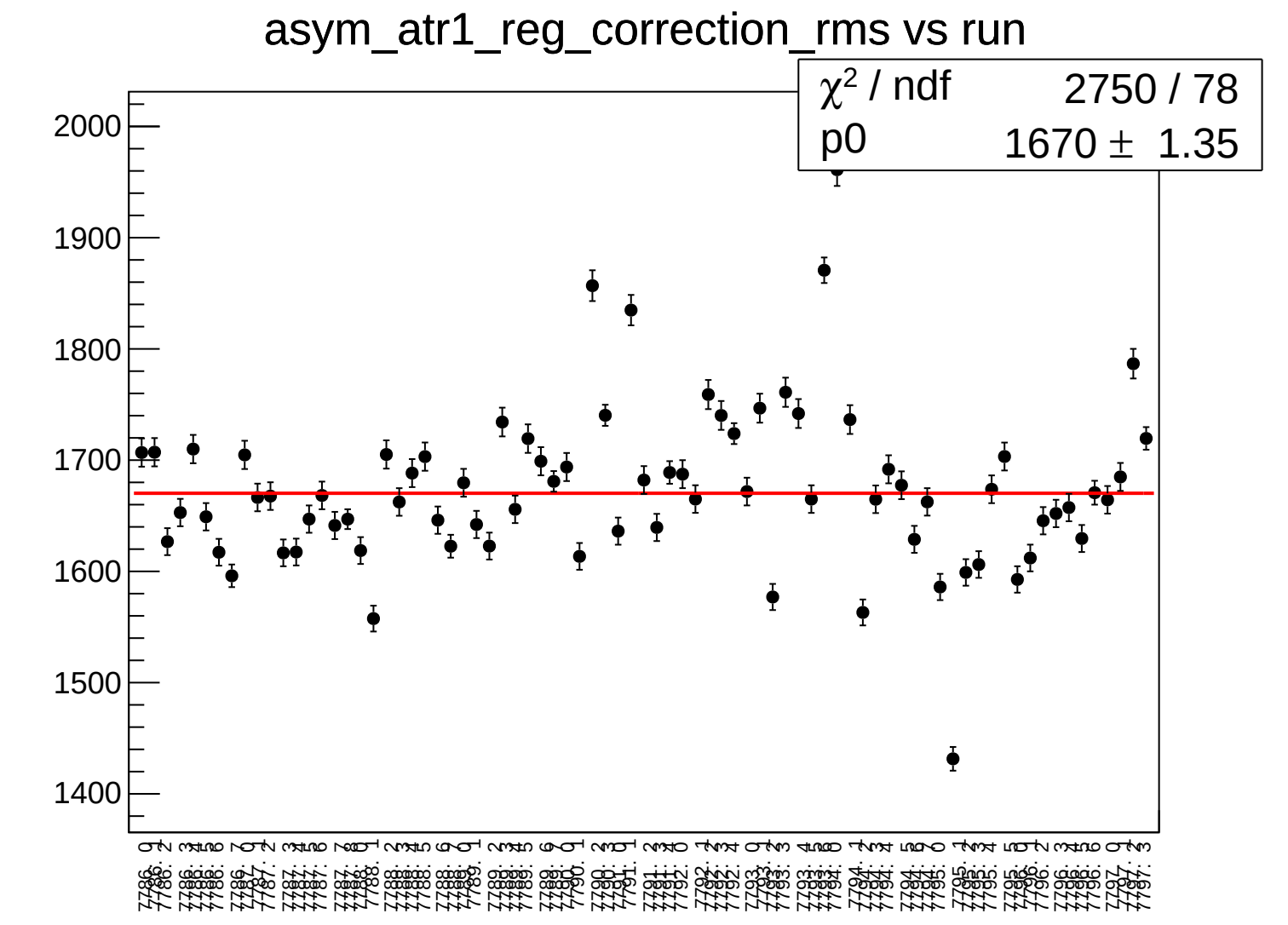

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 67.55 / 78
p0 −5236 ± 3131
100
50
0
−50
−100
pull
Entries 79
Mean 83.57
Std Dev 0
2
1
0
−1
−2

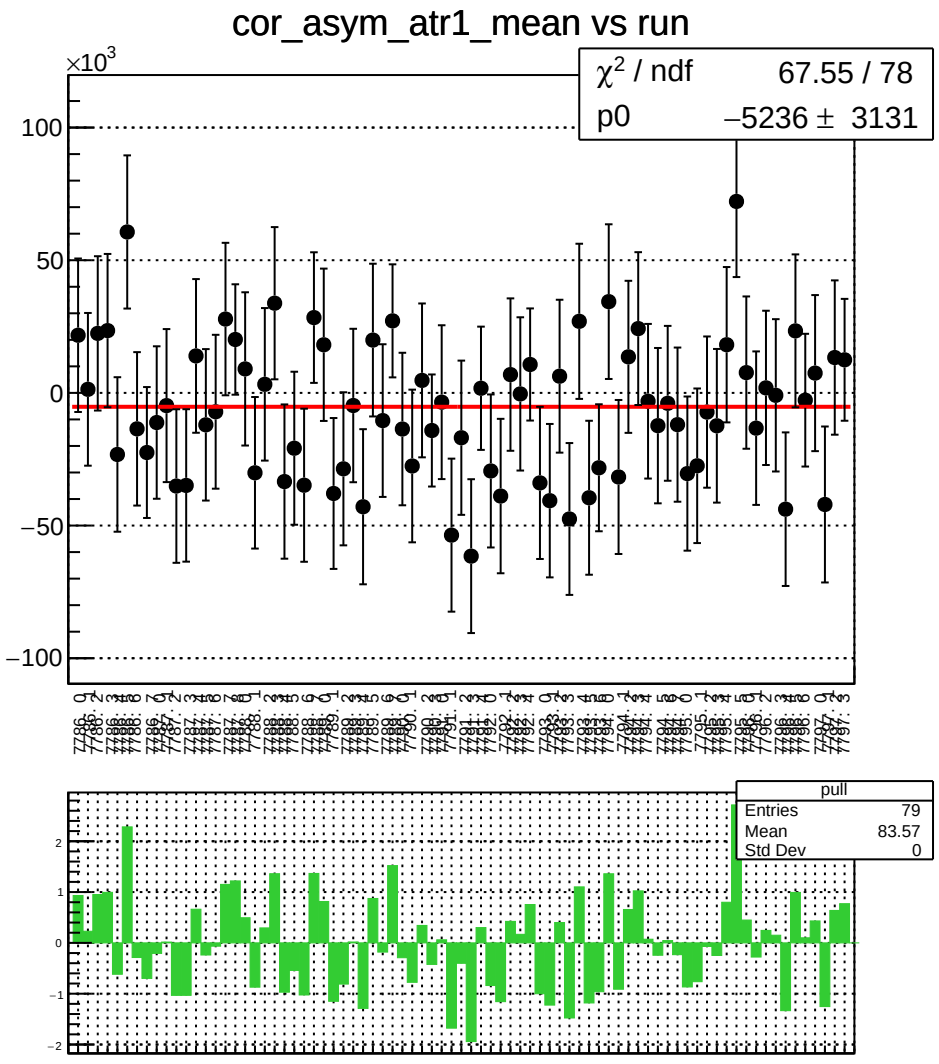

pull1D
Entries 79
Mean −0.01755
Std Dev 0.9245
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

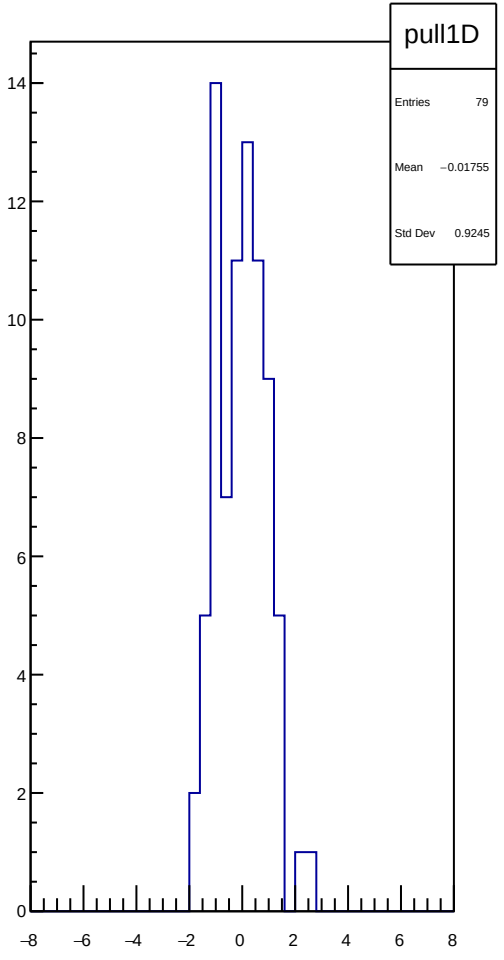

reg_asym_atr1_rms vs run
χ^2 / ndf 68.14 / 78
p0 2742 ± 2.214
2820
2800
2780
2760
2740
2720
2700
2680

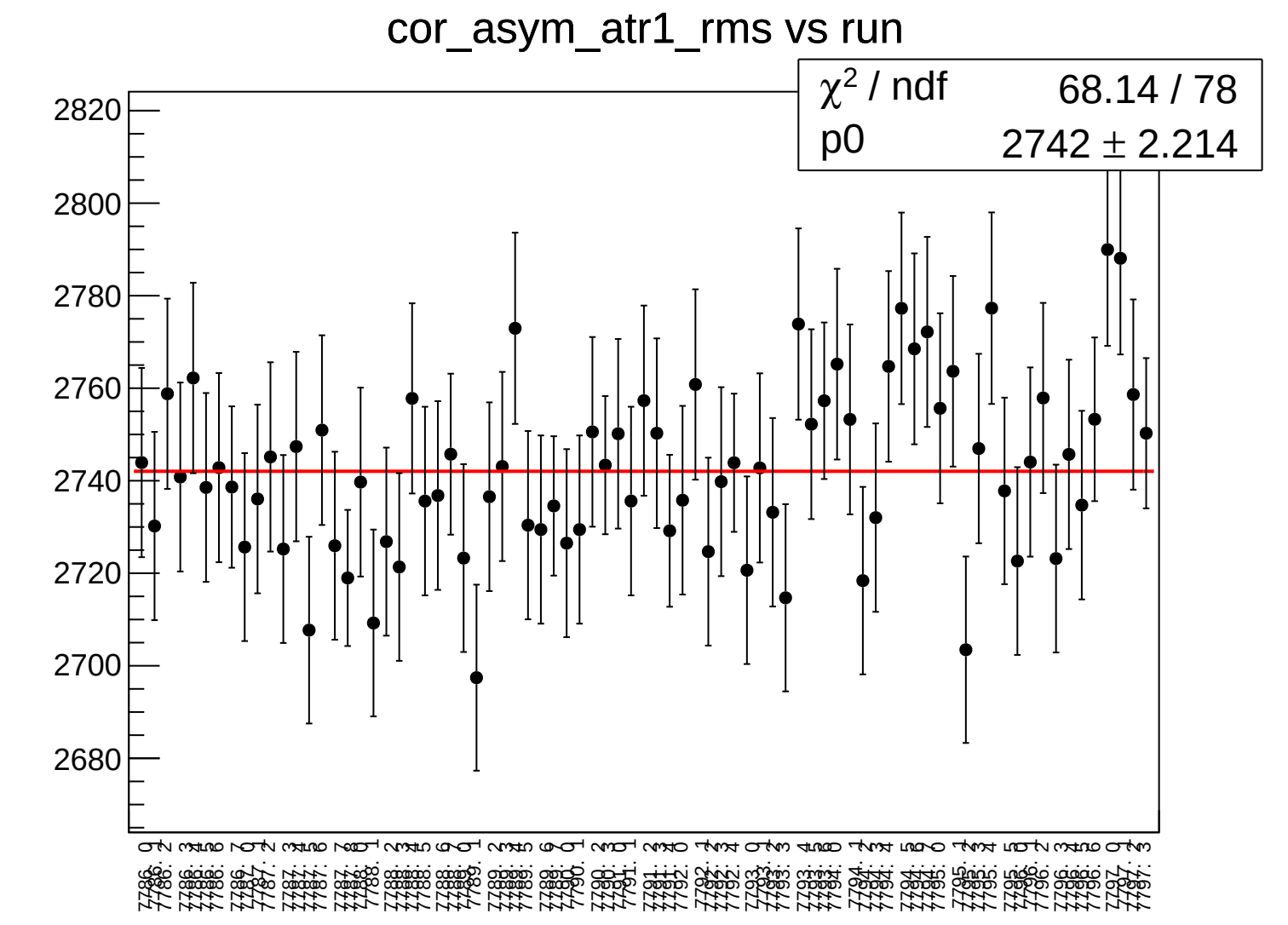

asym_atr1_reg_correction_mean vs run
χ² / ndf 71.25 / 78
p0 −2663 ± 1909
pull
Entries 79
Mean −1.623e+04
Std Dev 0

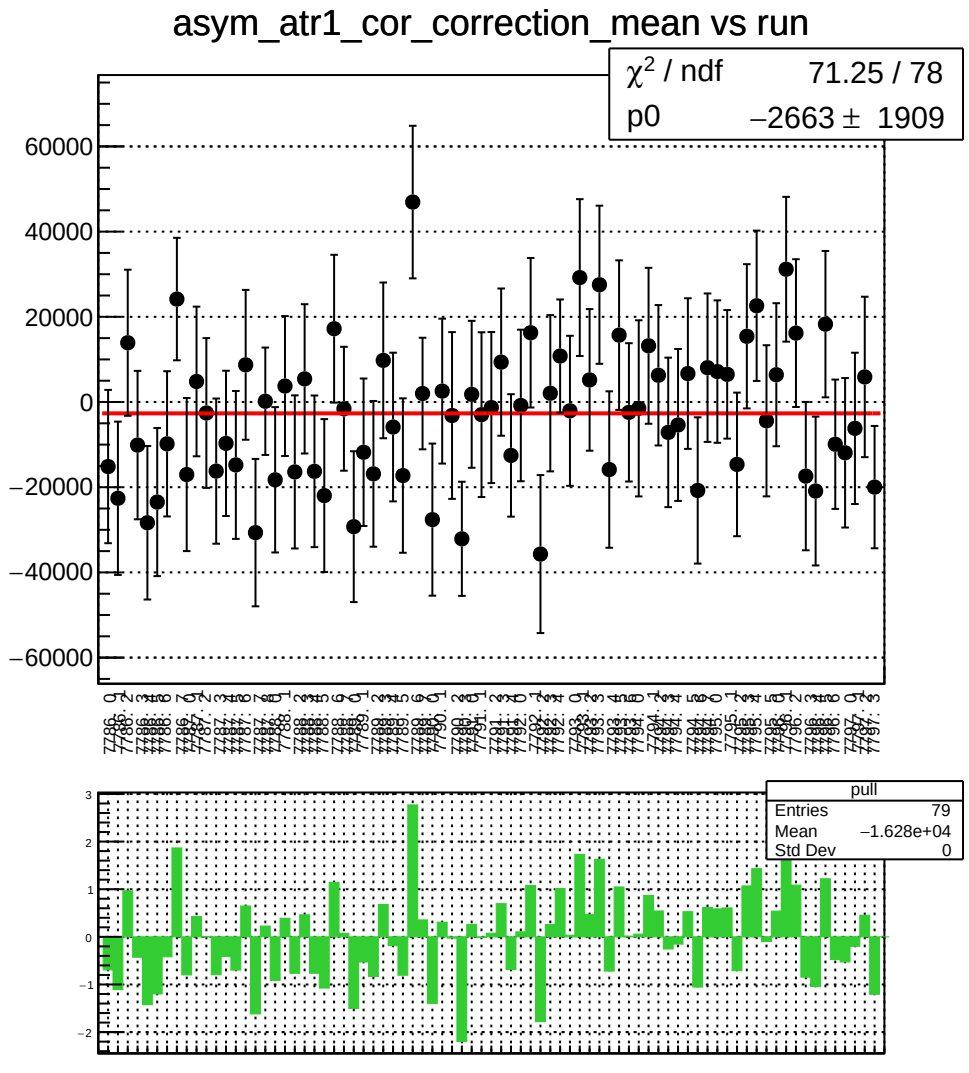

pull1D
Entries 79
Mean −0.0003027
Std Dev 0.9497

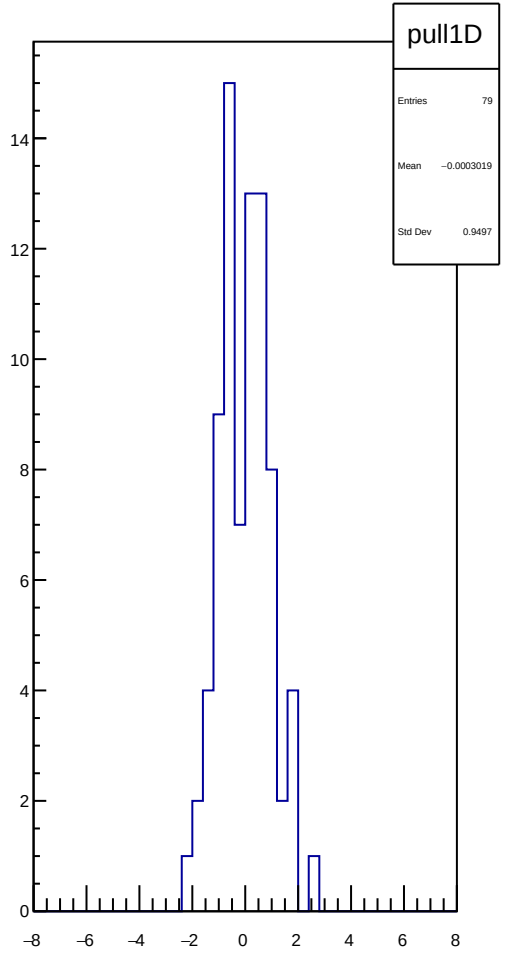

asym_atr1_reg_correction_rms vs run
χ² / ndf 2750 / 78
p0 1670 ± 1.35
2000
1900
1800
1700
1600
1500
1400

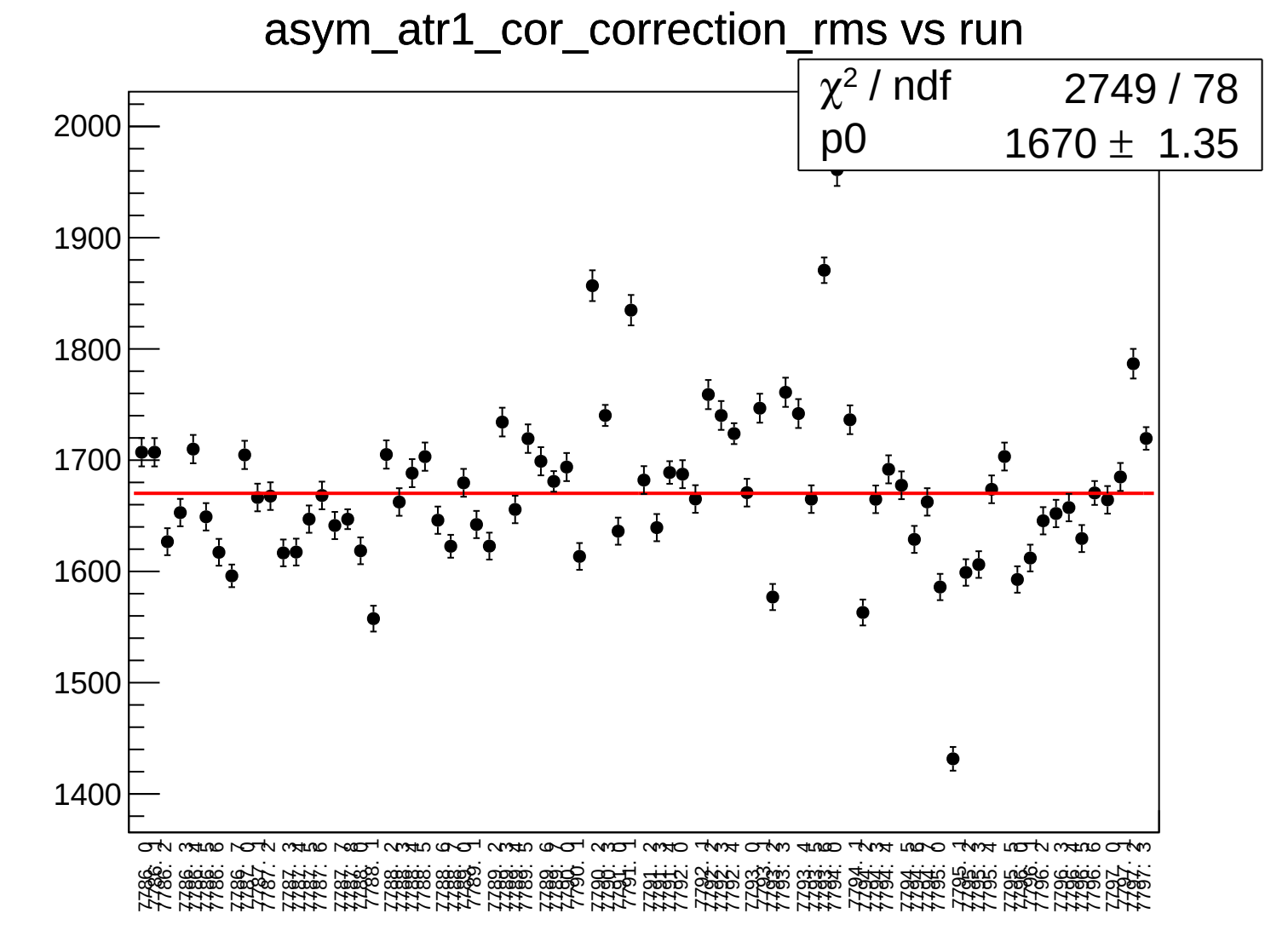

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 67.55 / 78
p0 −5236 ± 3131
100
50
0
−50
−100
pull
Entries 79
Mean 83.57
Std Dev 0
2
1
0
−1
−2

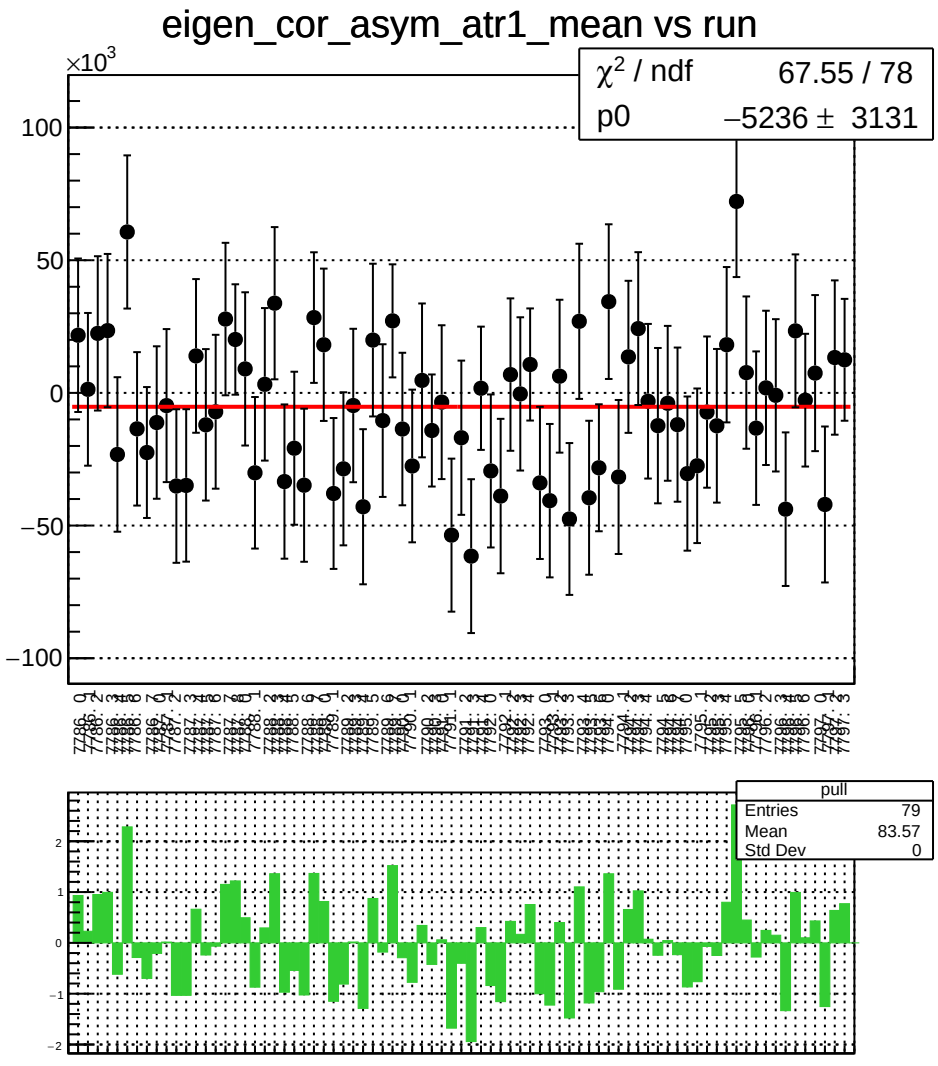

pull1D
Entries 79
Mean −0.01755
Std Dev 0.9245
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

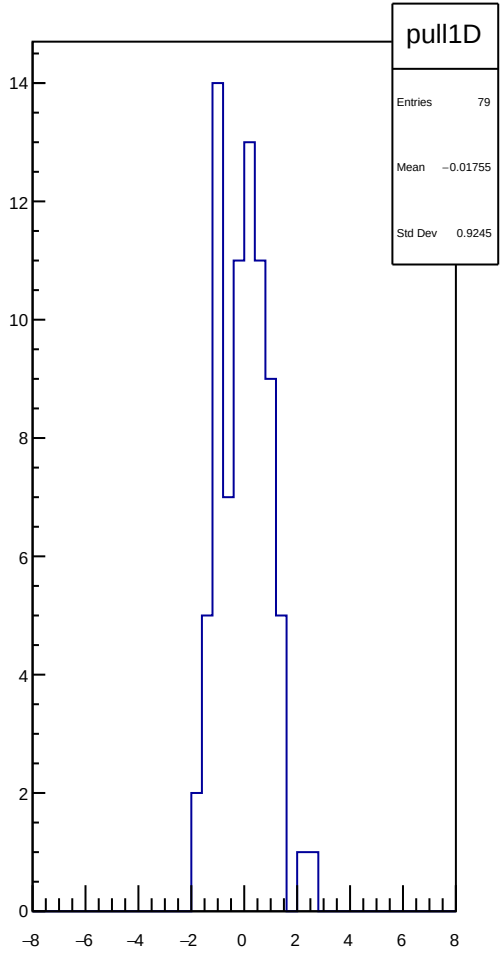

cor_asym_atr1_rms vs run
χ² / ndf 68.14 / 78
p0 2742 ± 2.214
2820
2800
2780
2760
2740
2720
2700
2680

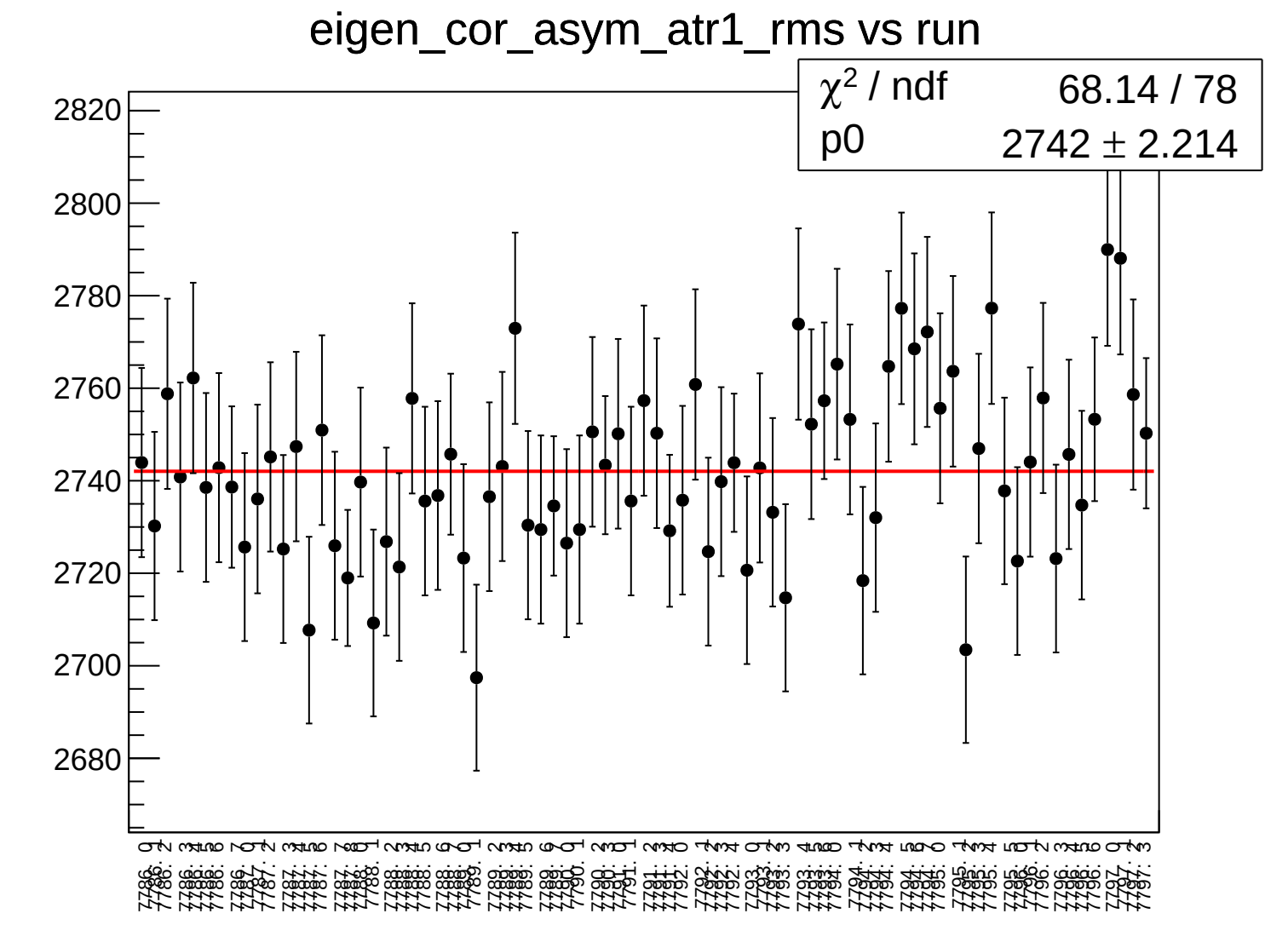

asym_atr1_cor_correction_mean vs run
χ² / ndf 71.25 / 78
p0 −2663 ± 1909
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −1.628e+04
Std Dev 0
3
2
1
0
−1
−2

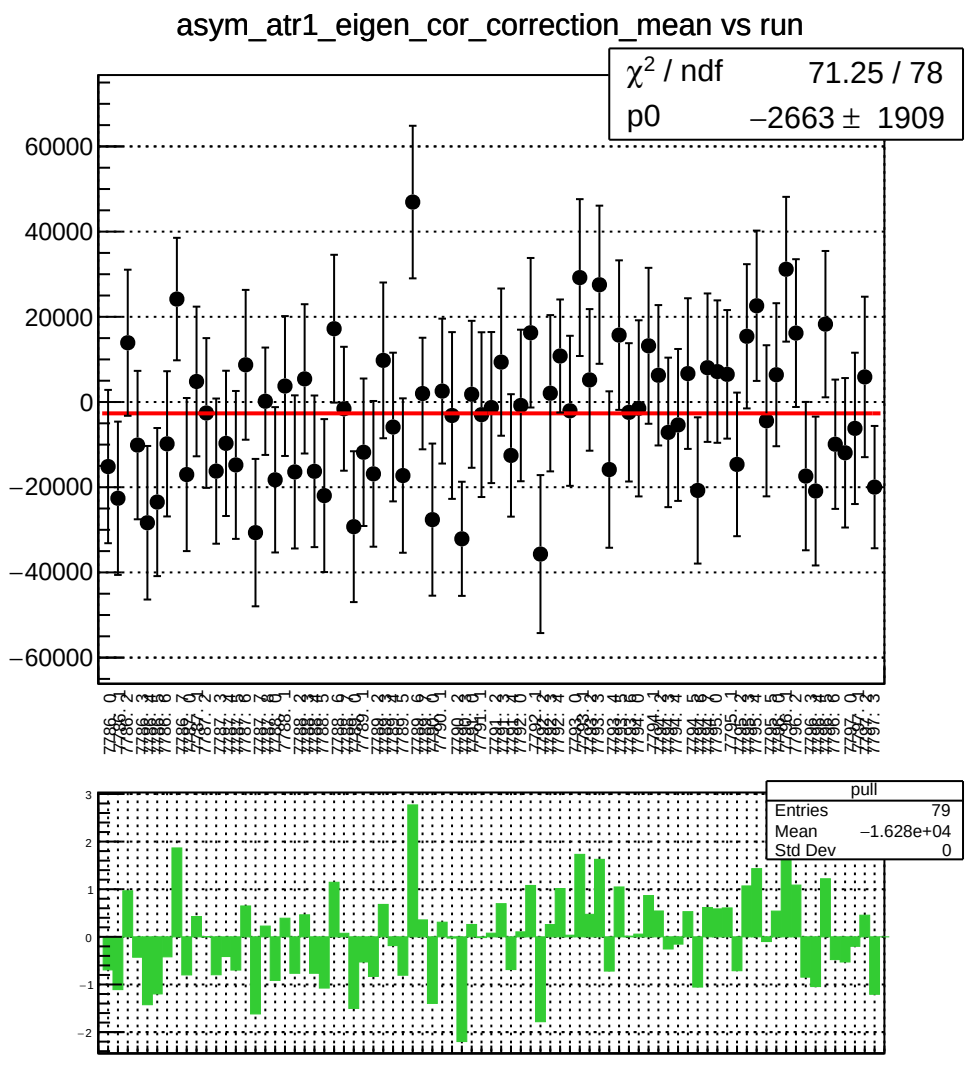

pull1D
Entries 79
Mean −0.0003019
Std Dev 0.9497
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

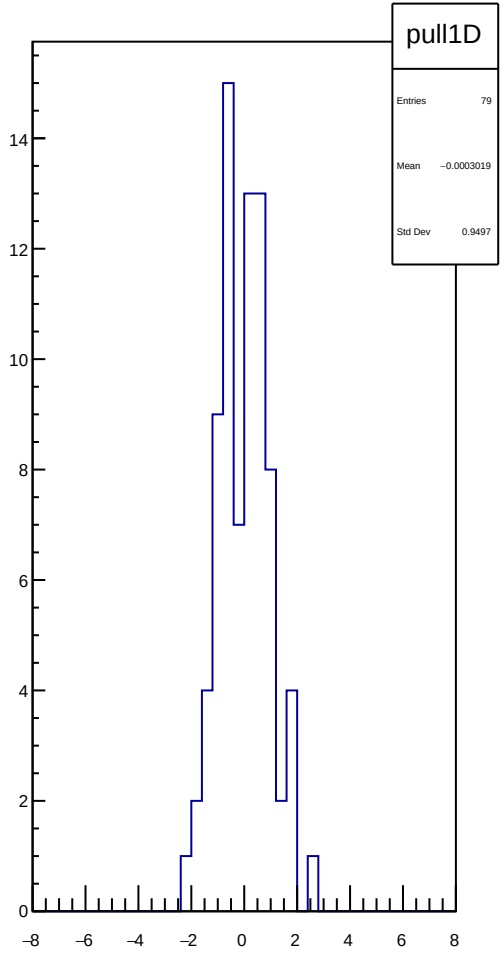

asym_atr1_cor_correction_rms vs run
χ² / ndf 2749 / 78
p0 1670 ± 1.35
2000
1900
1800
1700
1600
1500
1400

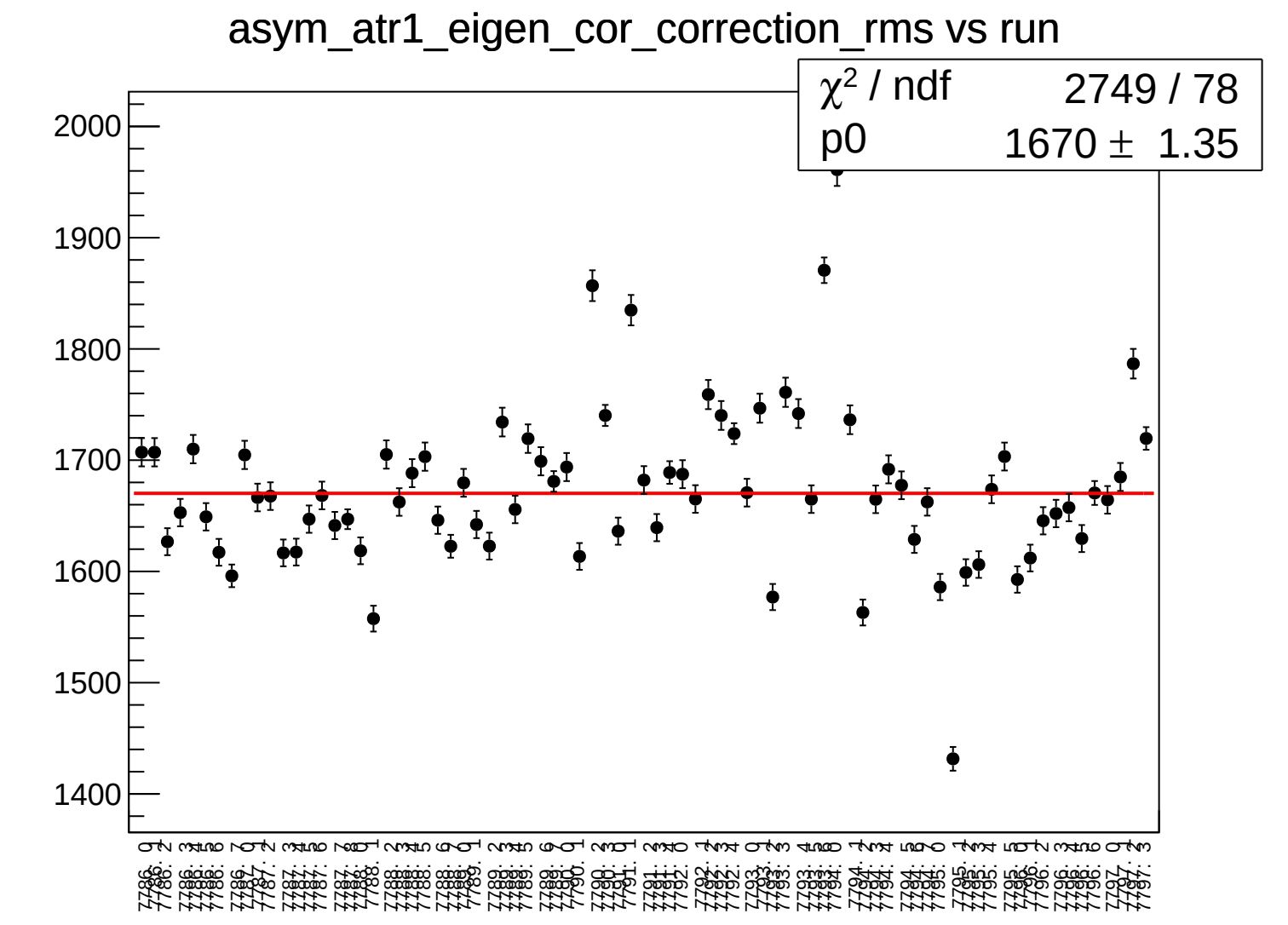

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 67.55 / 78
p0 −5236 ± 3131
100
50
0
−50
−100
pull
Entries 79
Mean 83.57
Std Dev 0
2
1
0
−1
−2

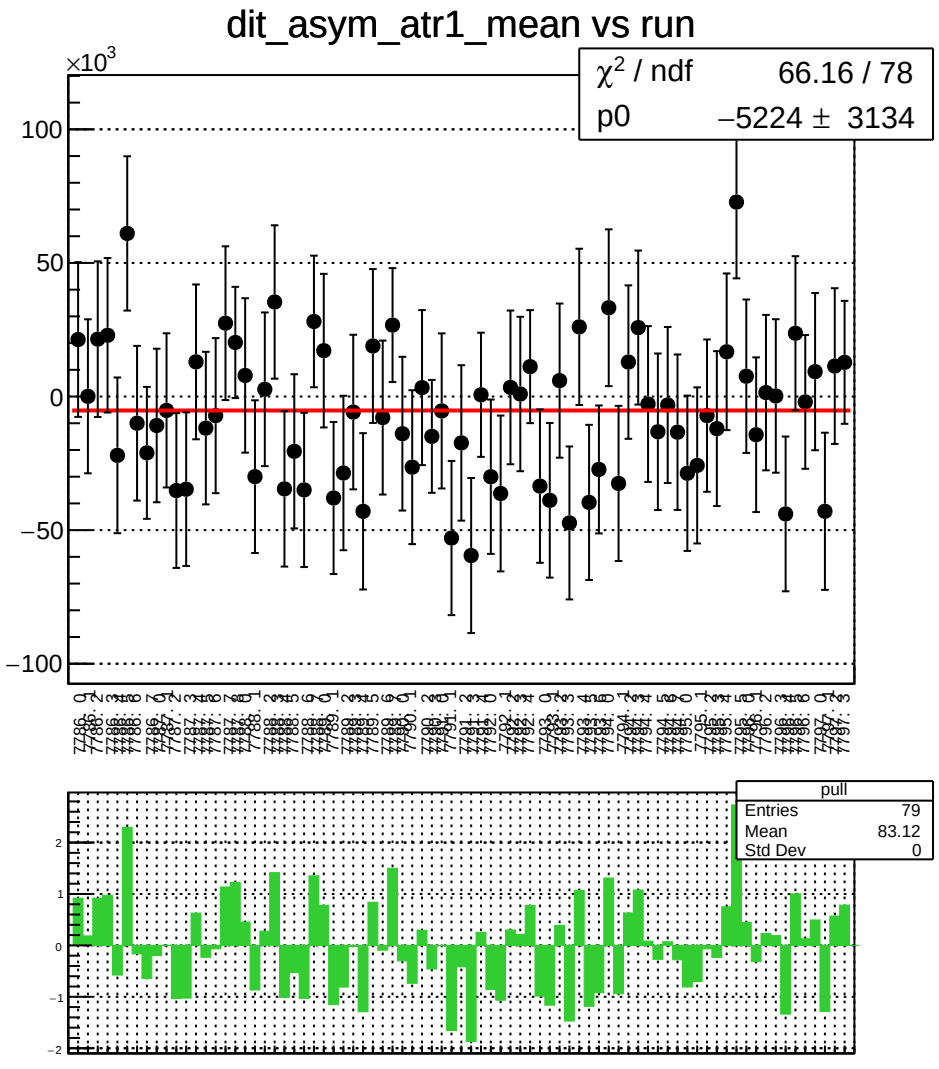

pull1D
Entries 79
Mean −0.01755
Std Dev 0.9245
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

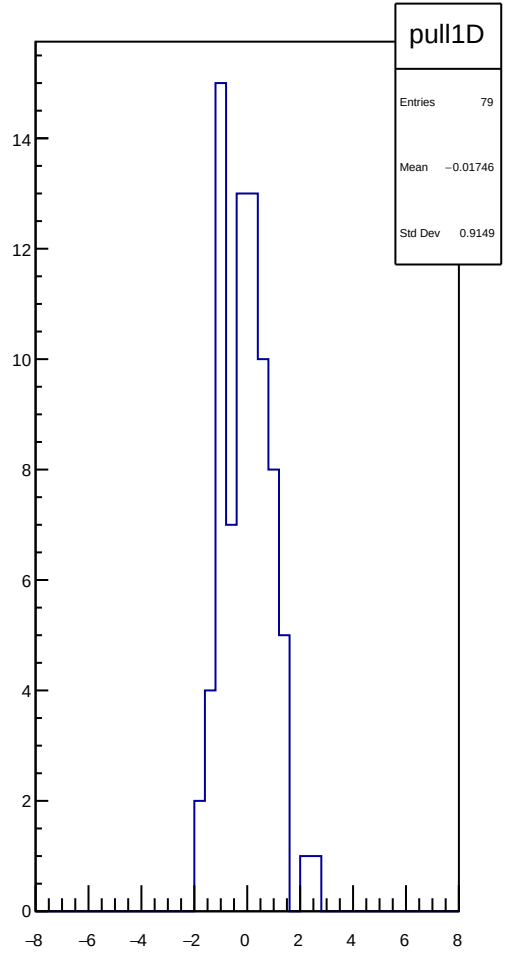

eigen_cor_asym_atr1_rms vs run
χ² / ndf 68.14 / 78
p0 2742 ± 2.214
2820
2800
2780
2760
2740
2720
2700
2680

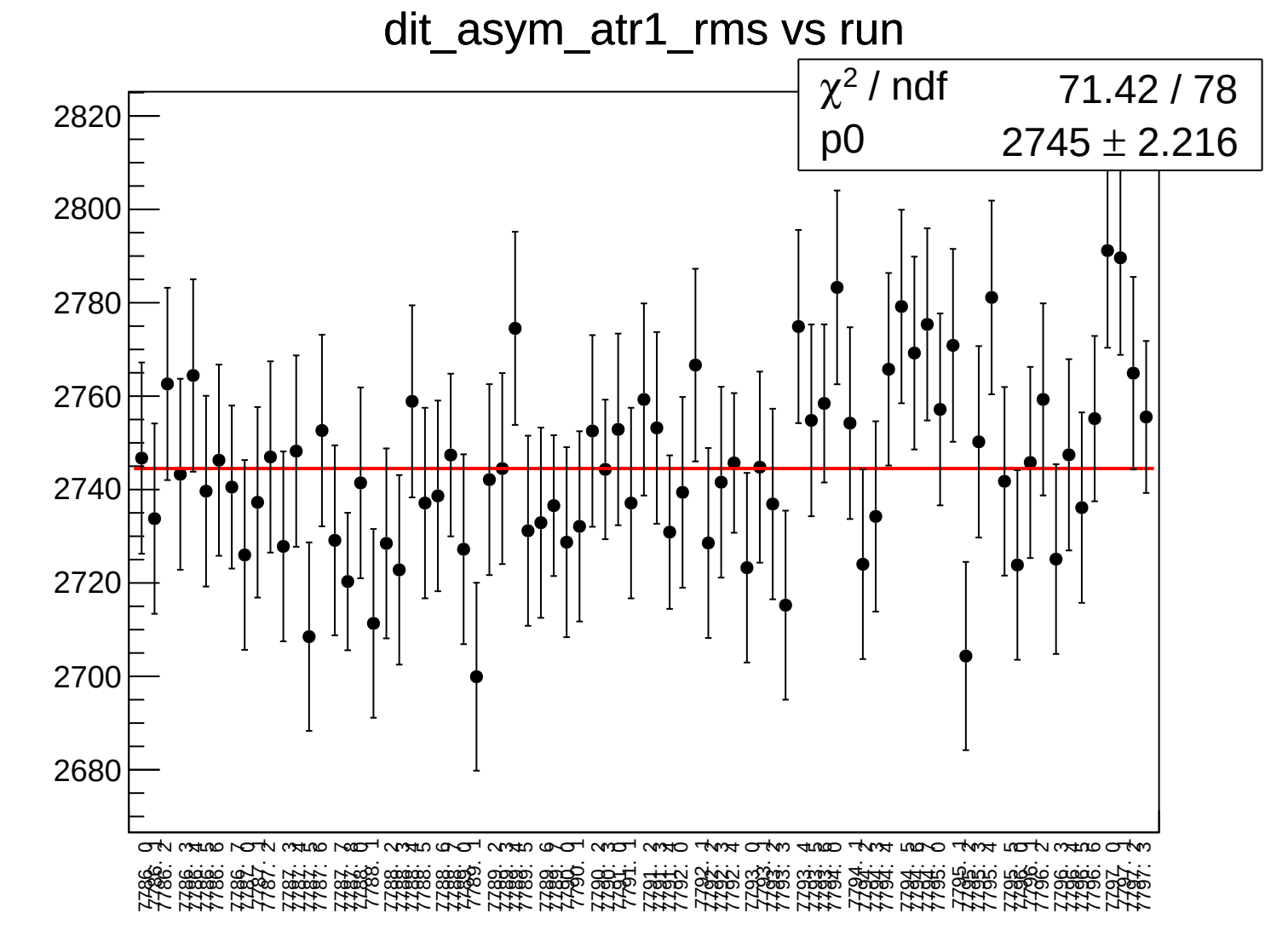

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 71.25 / 78
p0 −2663 ± 1909
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −1.628e+04
Std Dev 0
3
2
1
0
−1
−2

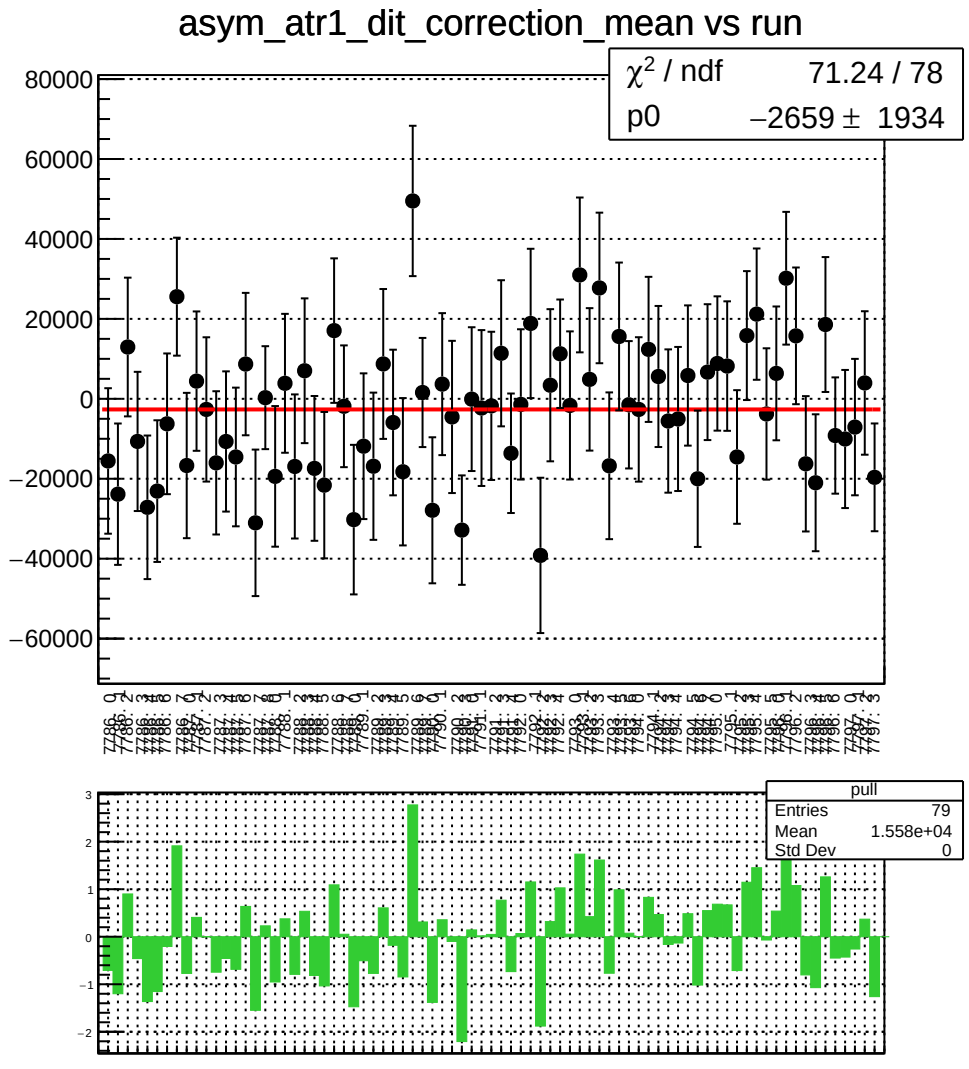

pull1D
Entries 79
Mean −0.0003019
Std Dev 0.9497
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

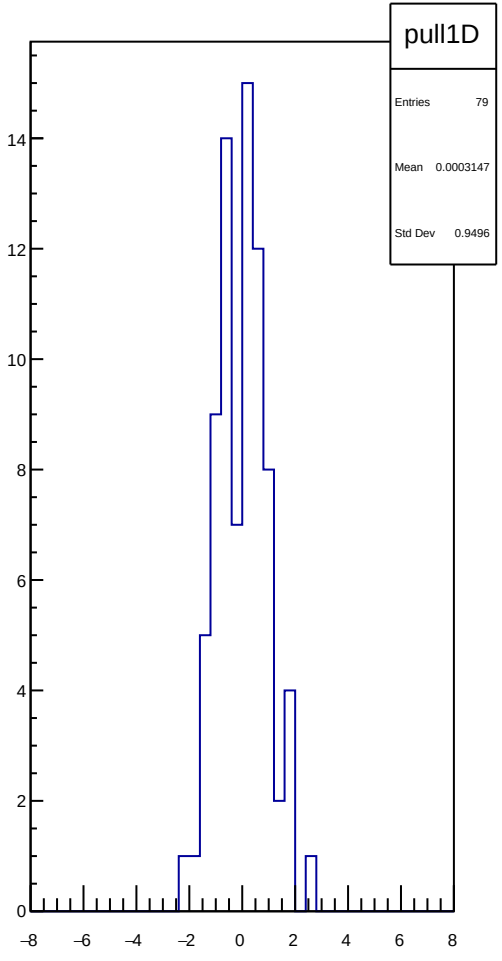

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2749 / 78
p0 1670 ± 1.35
2000
1900
1800
1700
1600
1500
1400

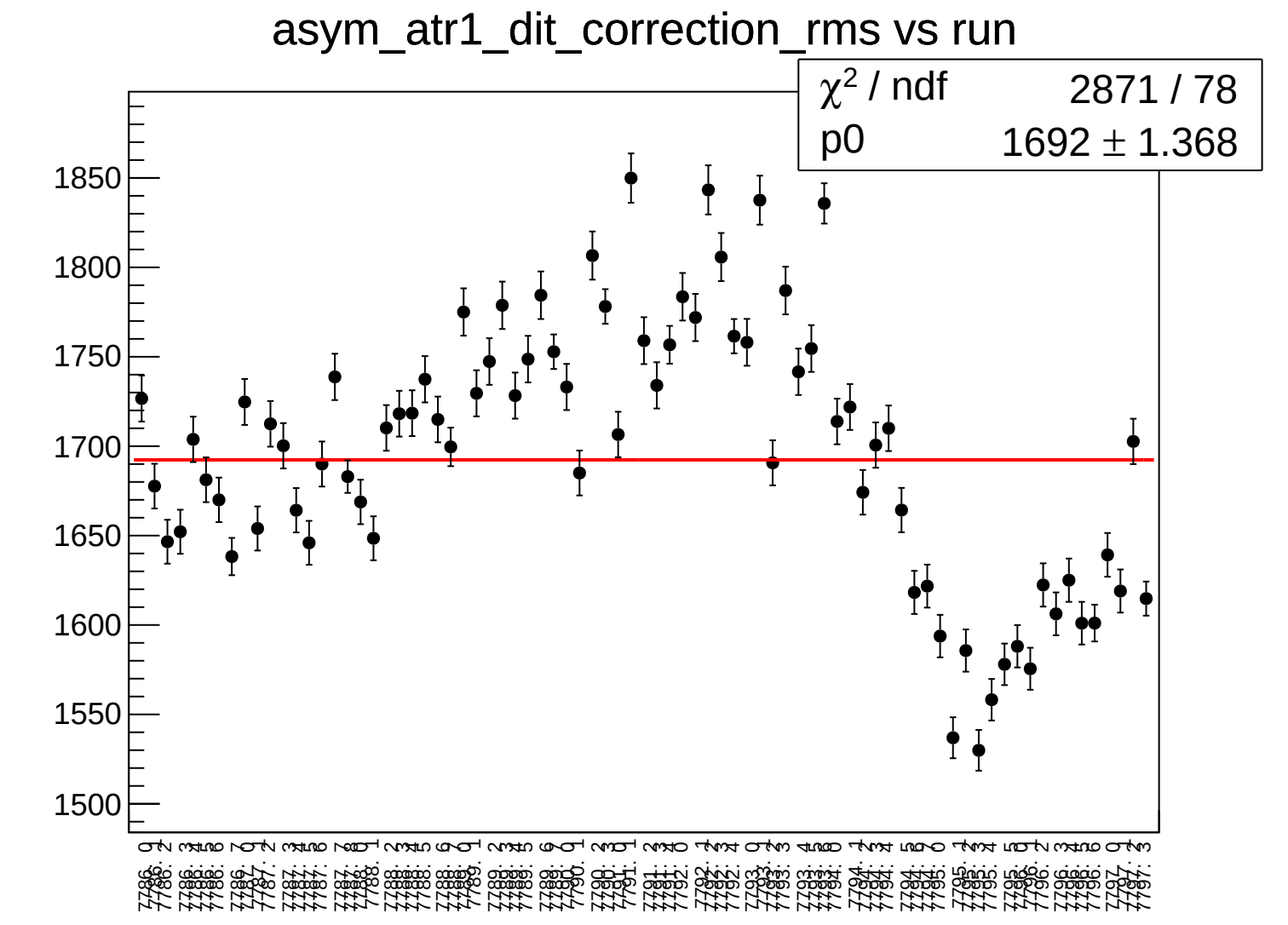

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 66.16 / 78
p0 −5224 ± 3134
100
50
0
−50
−100
pull
Entries 79
Mean 83.12
Std Dev 0
2
1
0
−1
−2

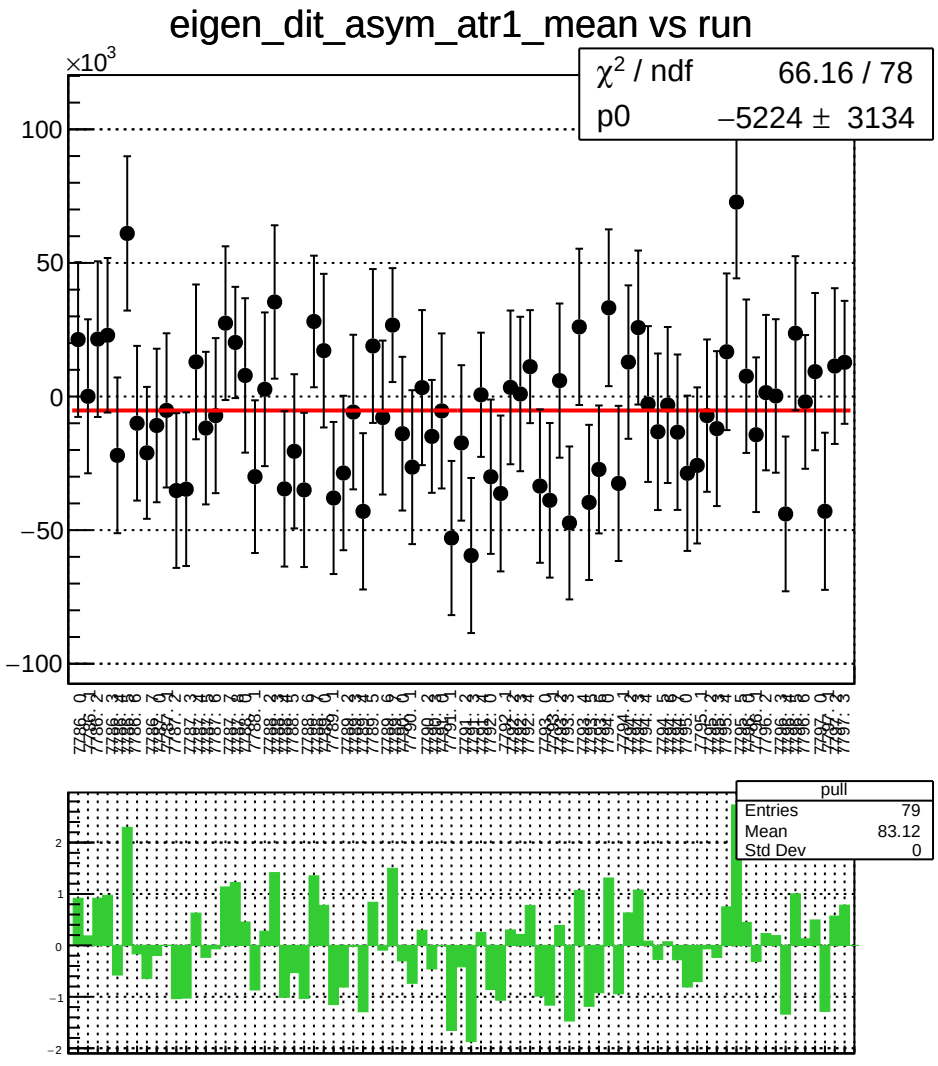

pull1D
Entries 79
Mean −0.01746
Std Dev 0.9149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

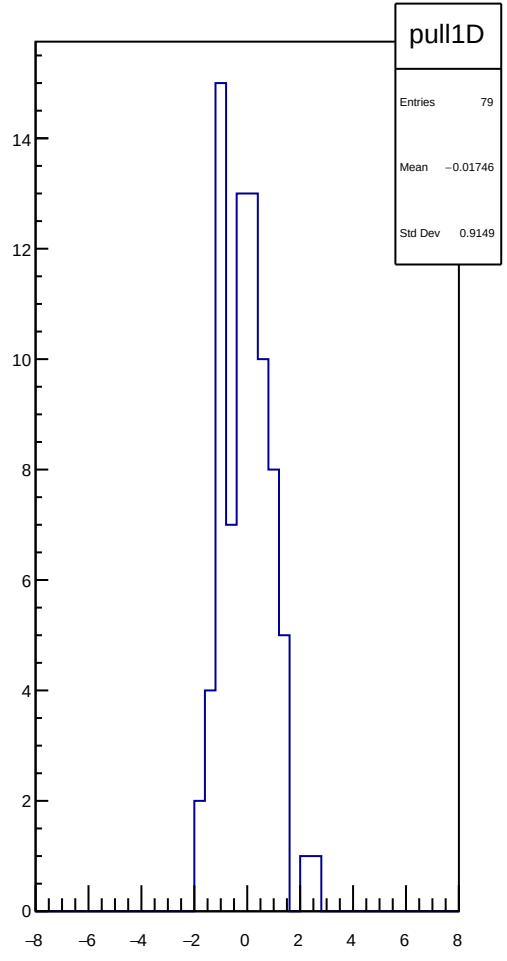

dit_asym_atr1_rms vs run
χ^2 / ndf 71.42 / 78
p0 2745 ± 2.216
2820
2800
2780
2760
2740
2720
2700
2680

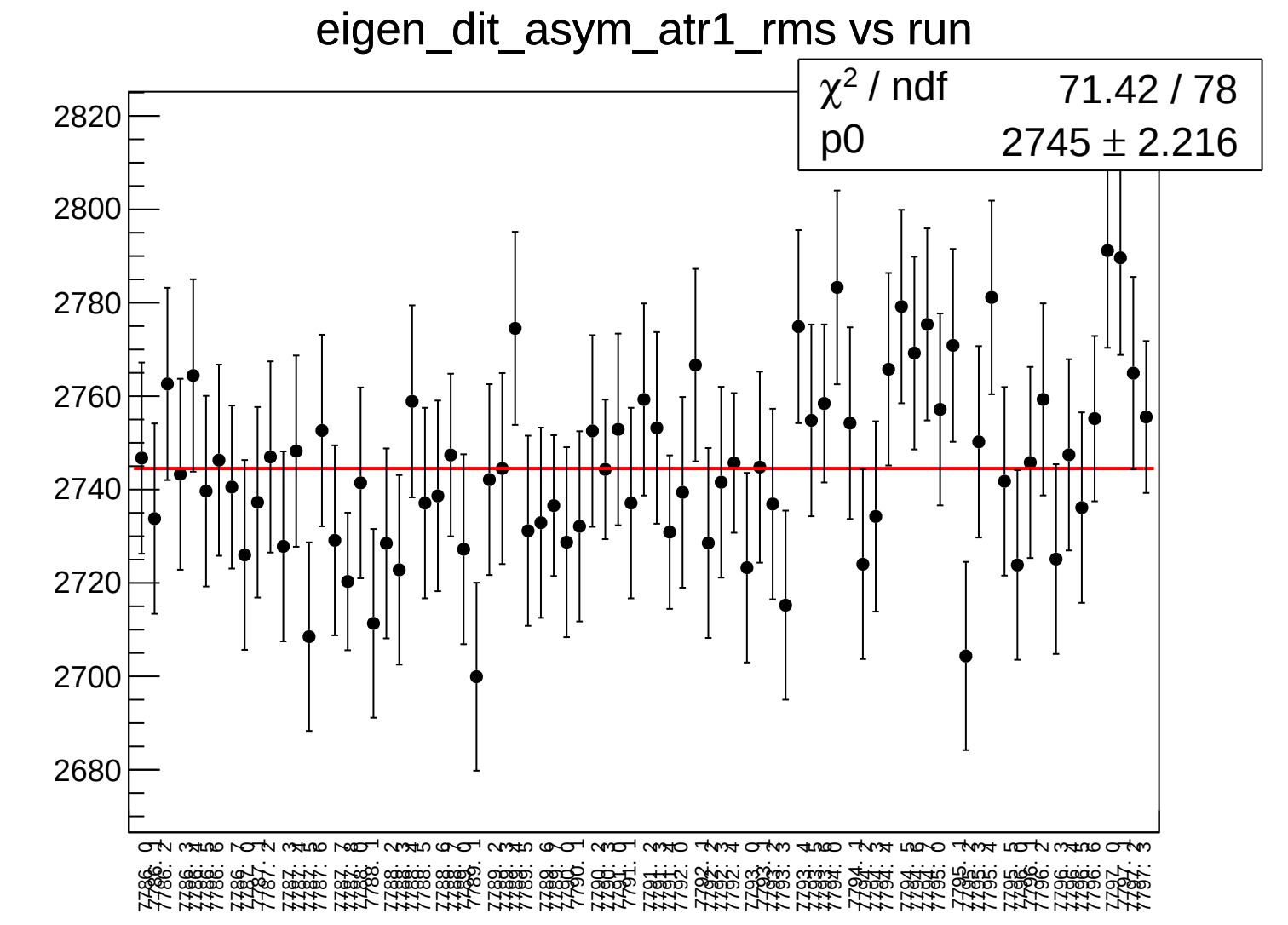

asym_atr1_dit_correction_mean vs run
χ² / ndf 71.24 / 78
p0 −2659 ± 1934
pull
Entries 79
Mean 1.558e+04
Std Dev 0

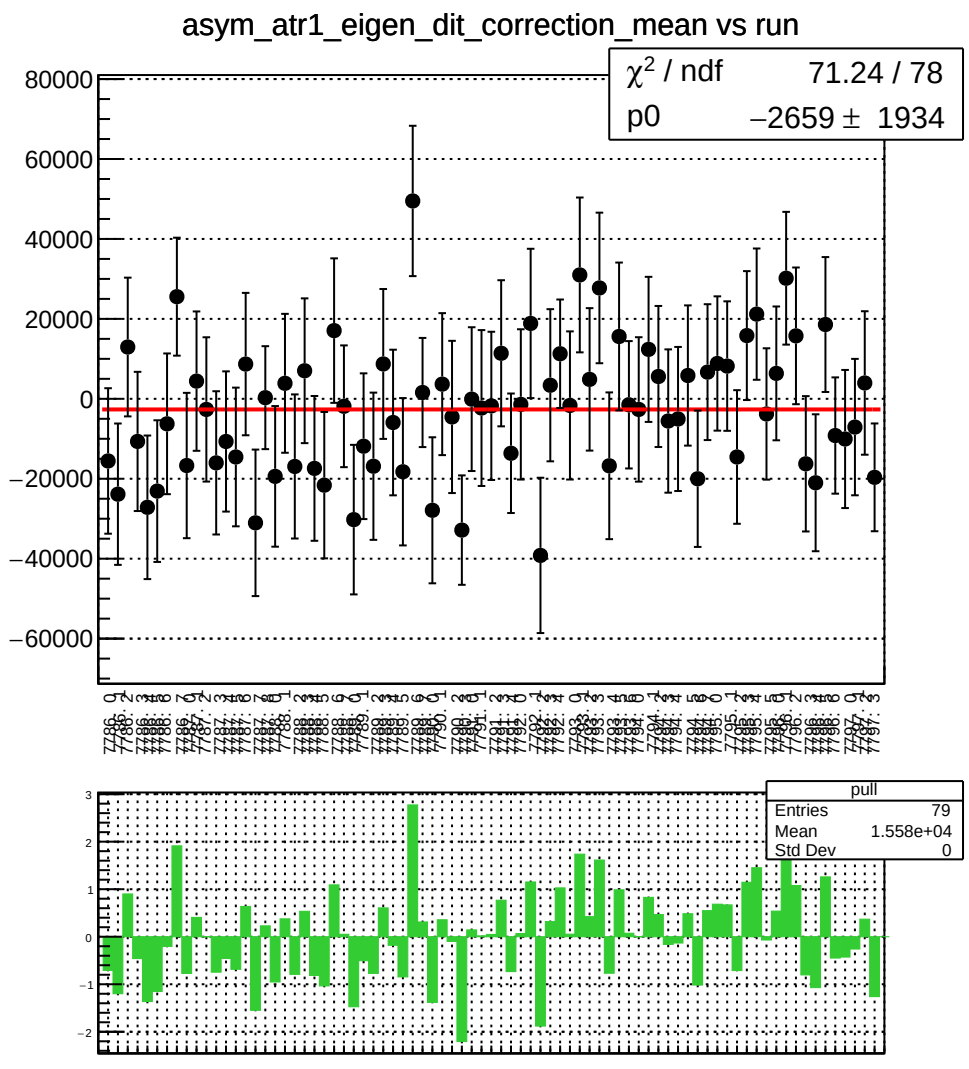

pull1D
Entries 79
Mean 0.0003147
Std Dev 0.9496

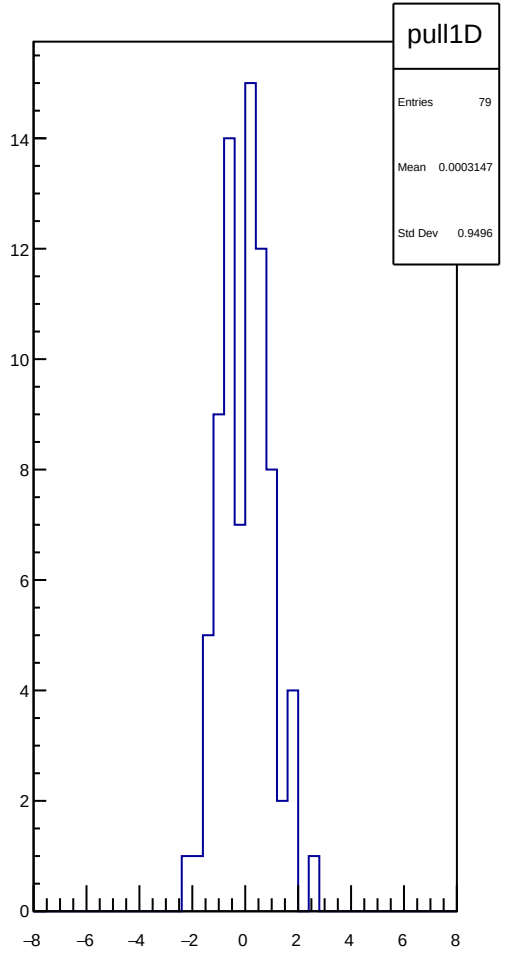

asym_atr1_dit_correction_rms vs run
χ² / ndf 2871 / 78
p0 1692 ± 1.368
1850
1800
1750
1700
1650
1600
1550
1500

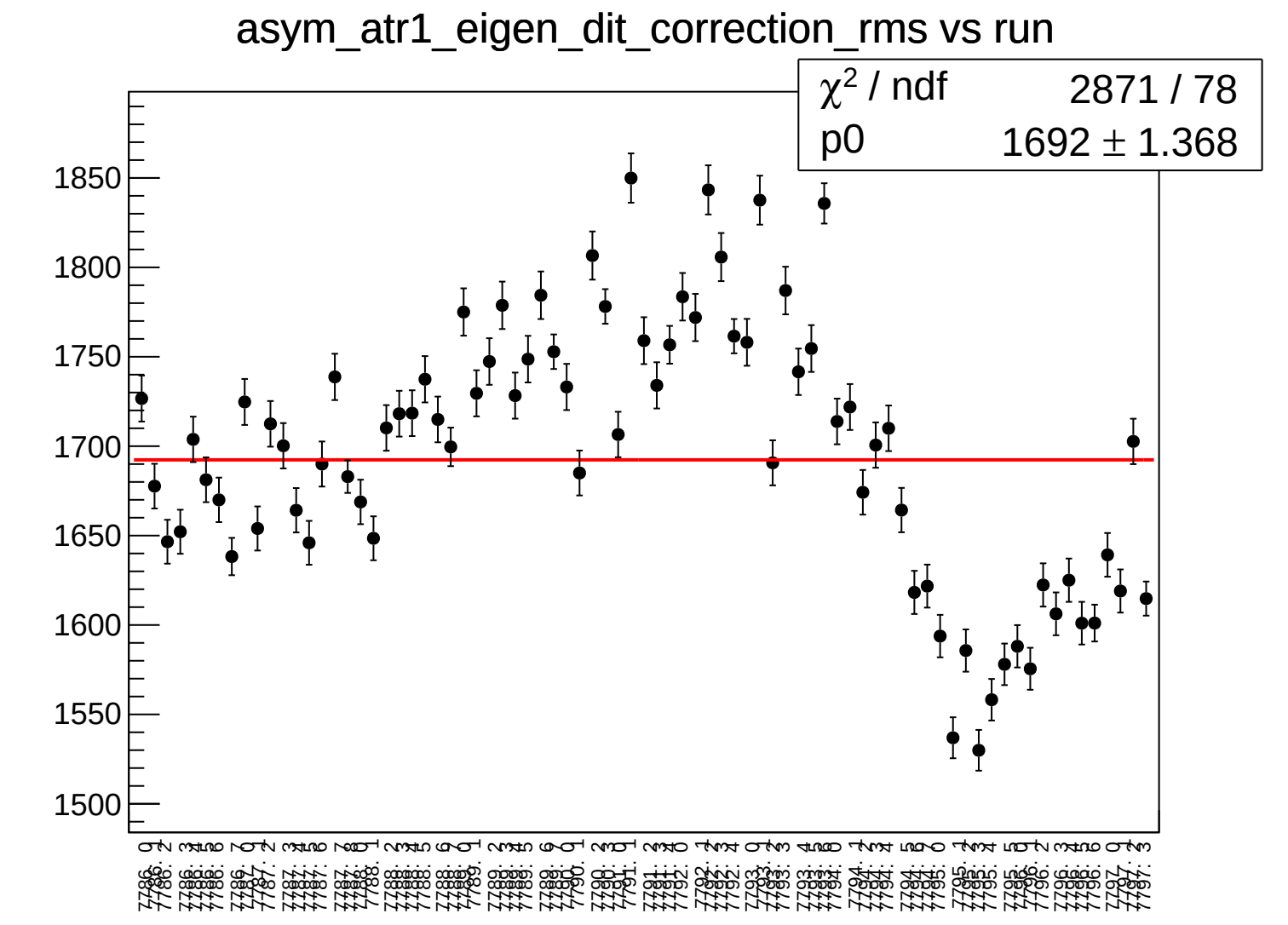

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 66.16 / 78
p0 −5224 ± 3134
100
50
0
−50
−100
pull
Entries 79
Mean 83.12
Std Dev 0
2
1
0
−1
−2

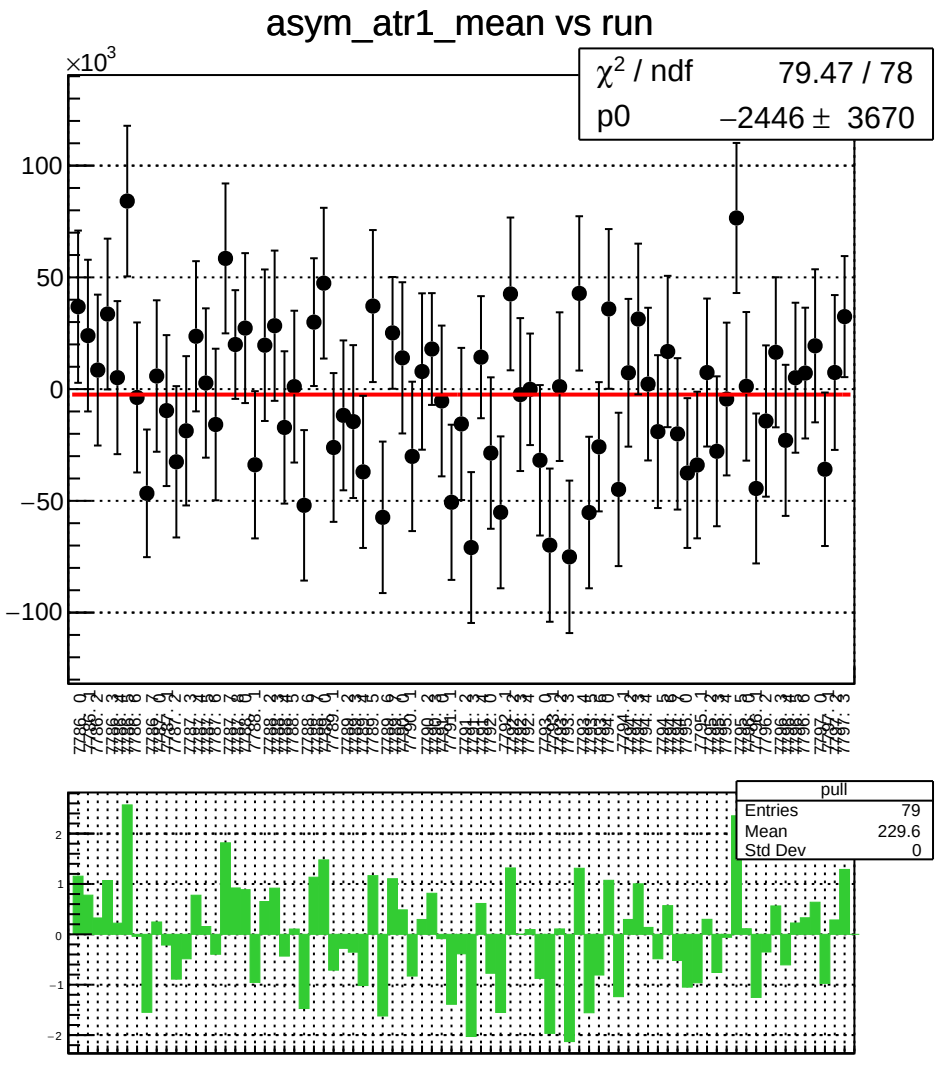

pull1D
Entries 79
Mean −0.01746
Std Dev 0.9149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

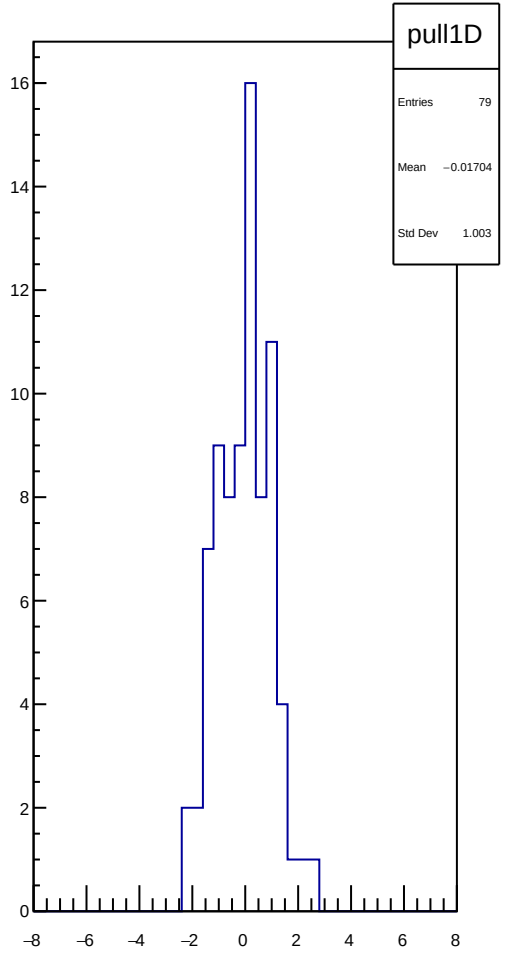

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 71.42 / 78
p0 2745 ± 2.216
2820
2800
2780
2760
2740
2720
2700
2680

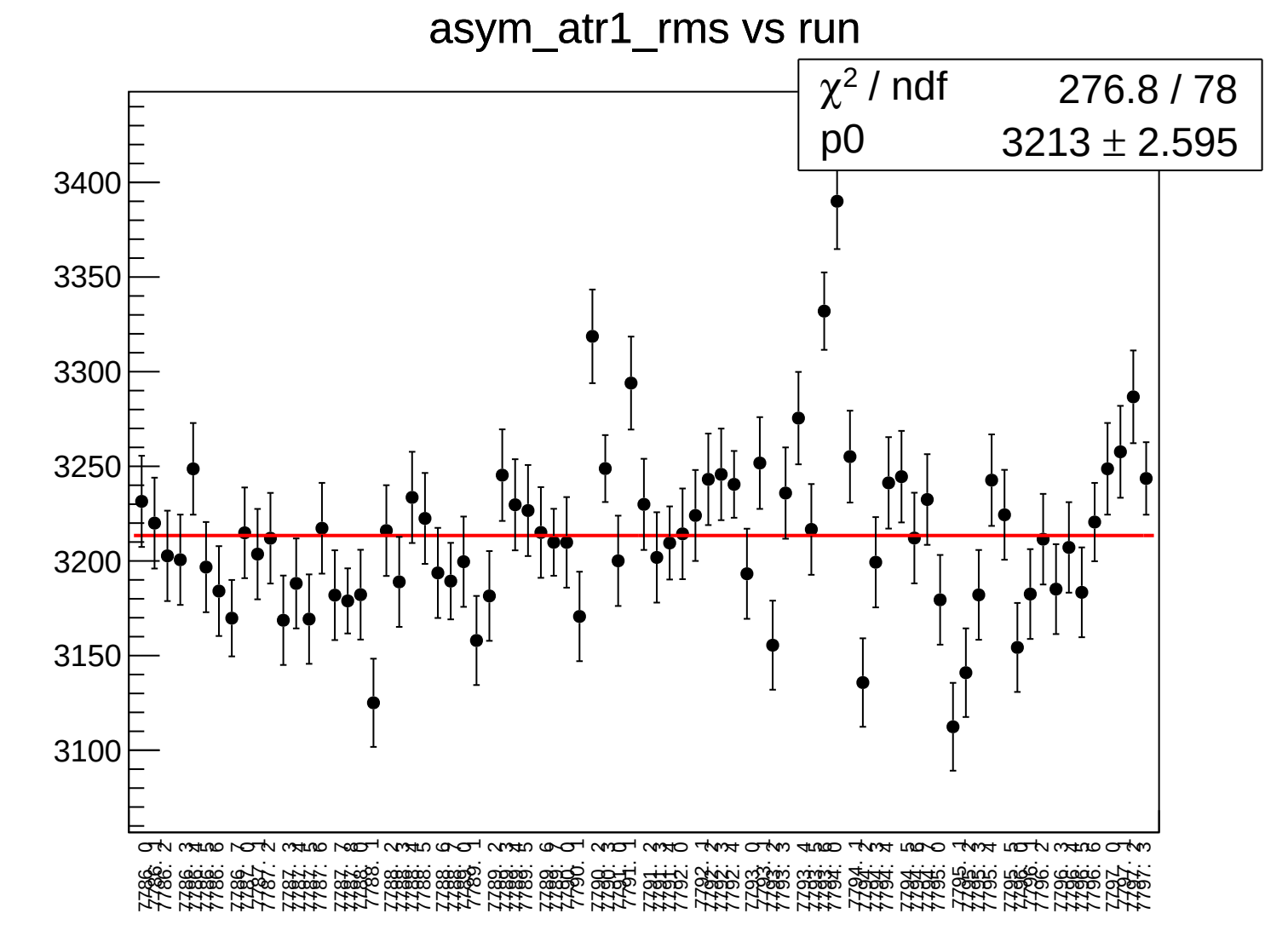

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 71.24 / 78
p0 −2659 ± 1934
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 1.558e+04
Std Dev 0
3
2
1
0
−1
−2

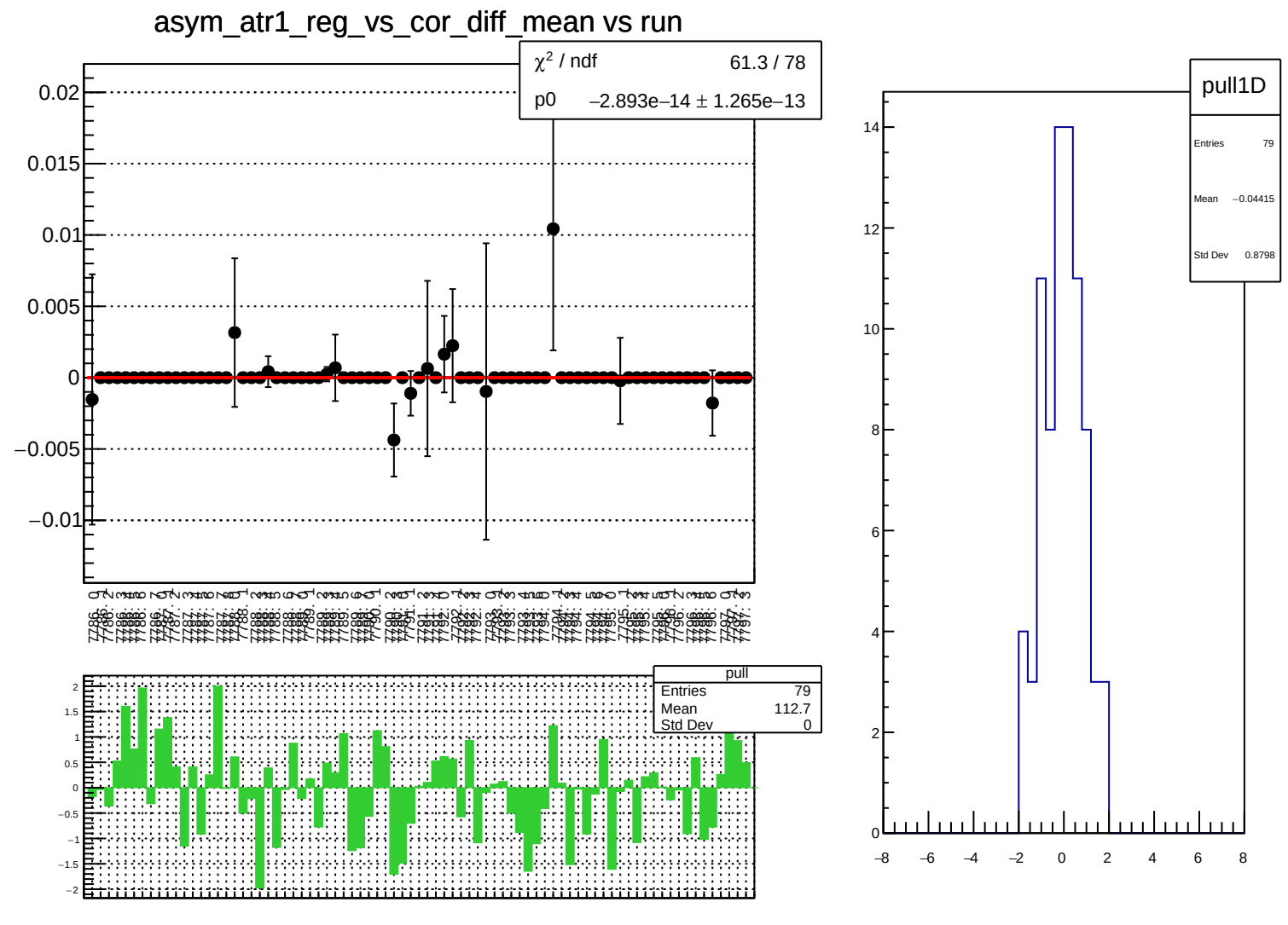

pull1D
Entries 79
Mean 0.0003147
Std Dev 0.9496
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

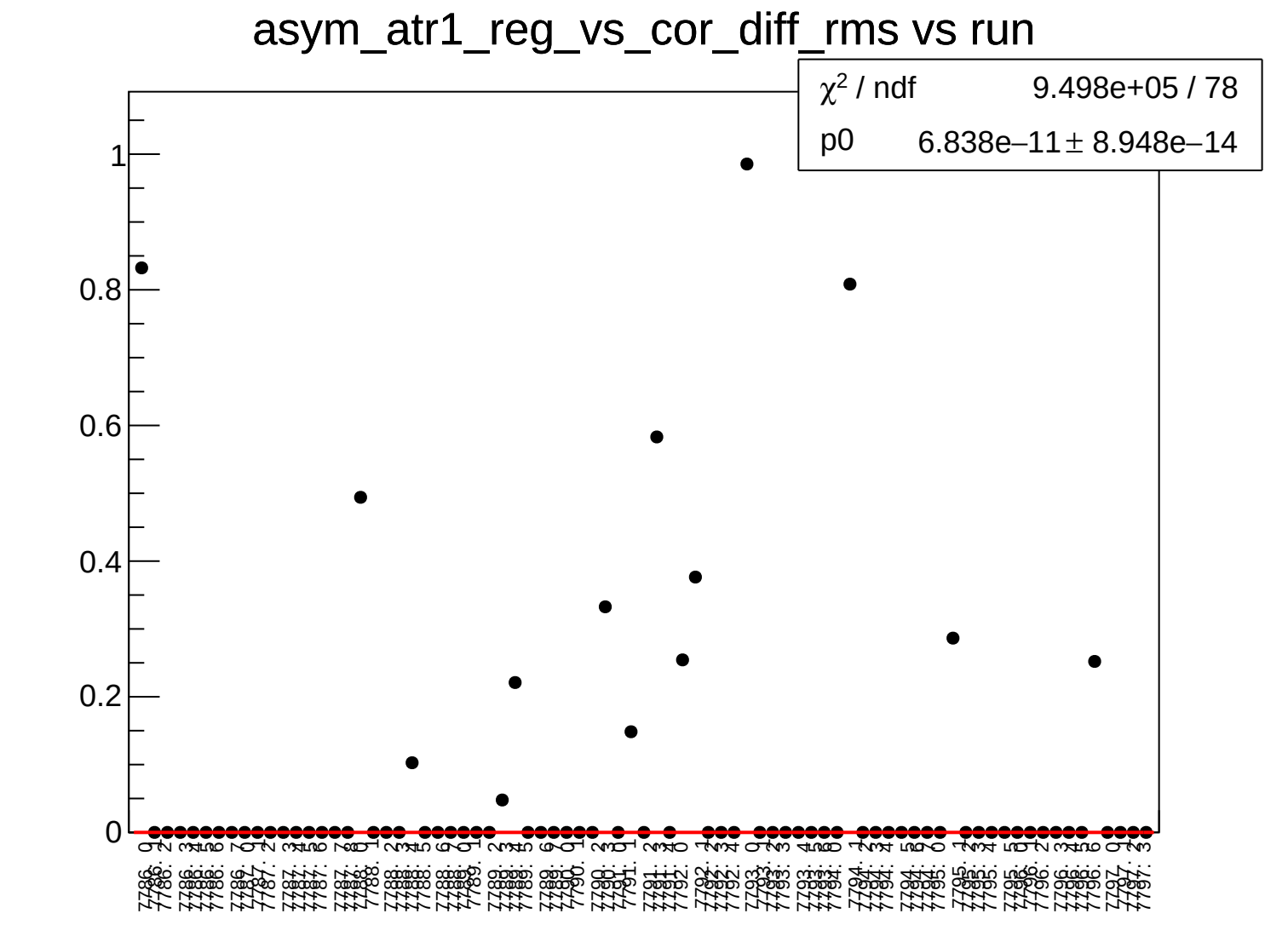

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2871 / 78
p0 1692 ± 1.368
1850
1800
1750
1700
1650
1600
1550
1500

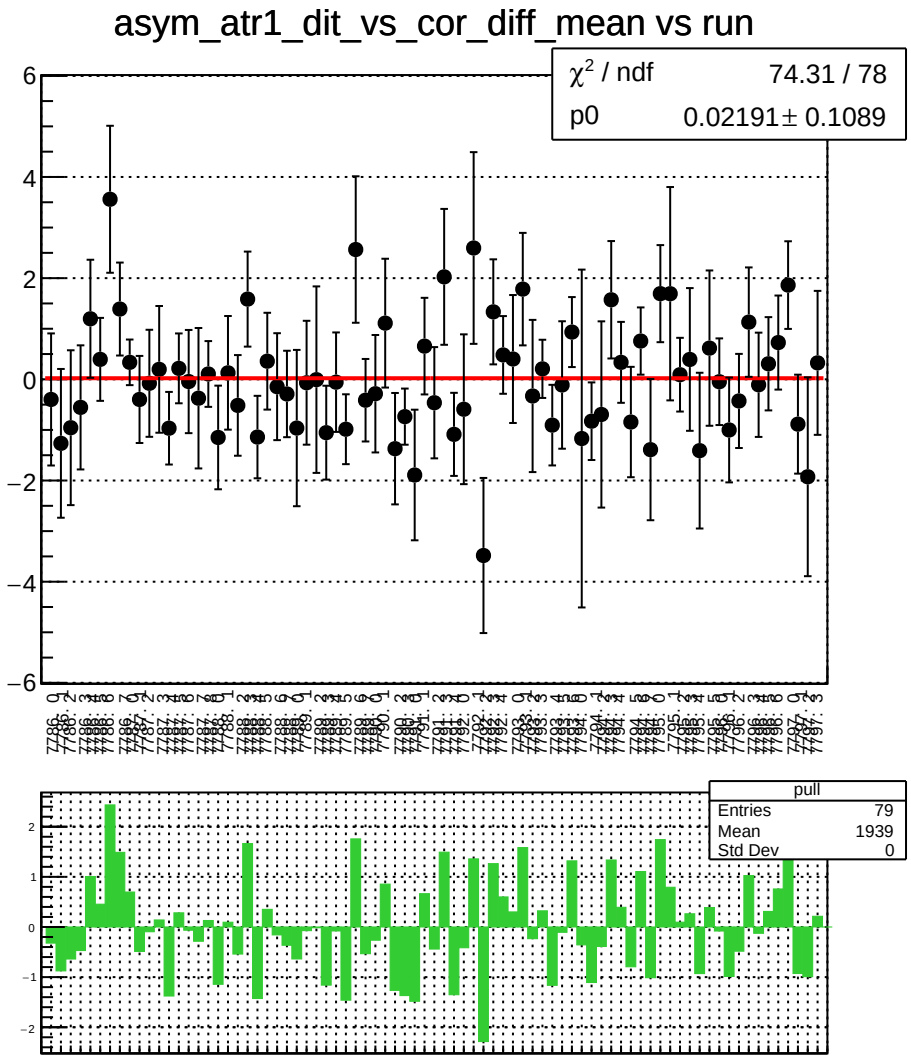

asym_atr1_mean vs run
×10^3
χ² / ndf 79.47 / 78
p0 −2446 ± 3670
100
50
0
−50
−100
pull
Entries 79
Mean 229.6
Std Dev 0
2
1
0
−1
−2

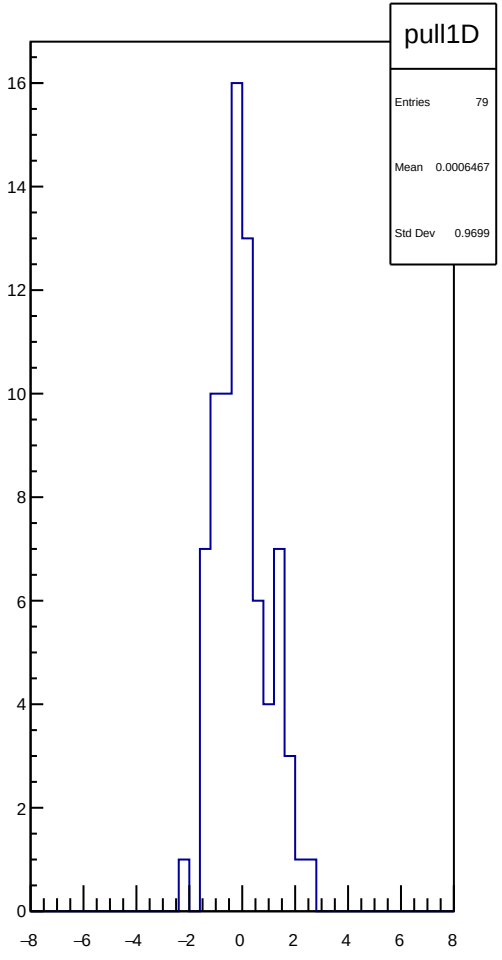

pull1D
Entries 79
Mean −0.01704
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

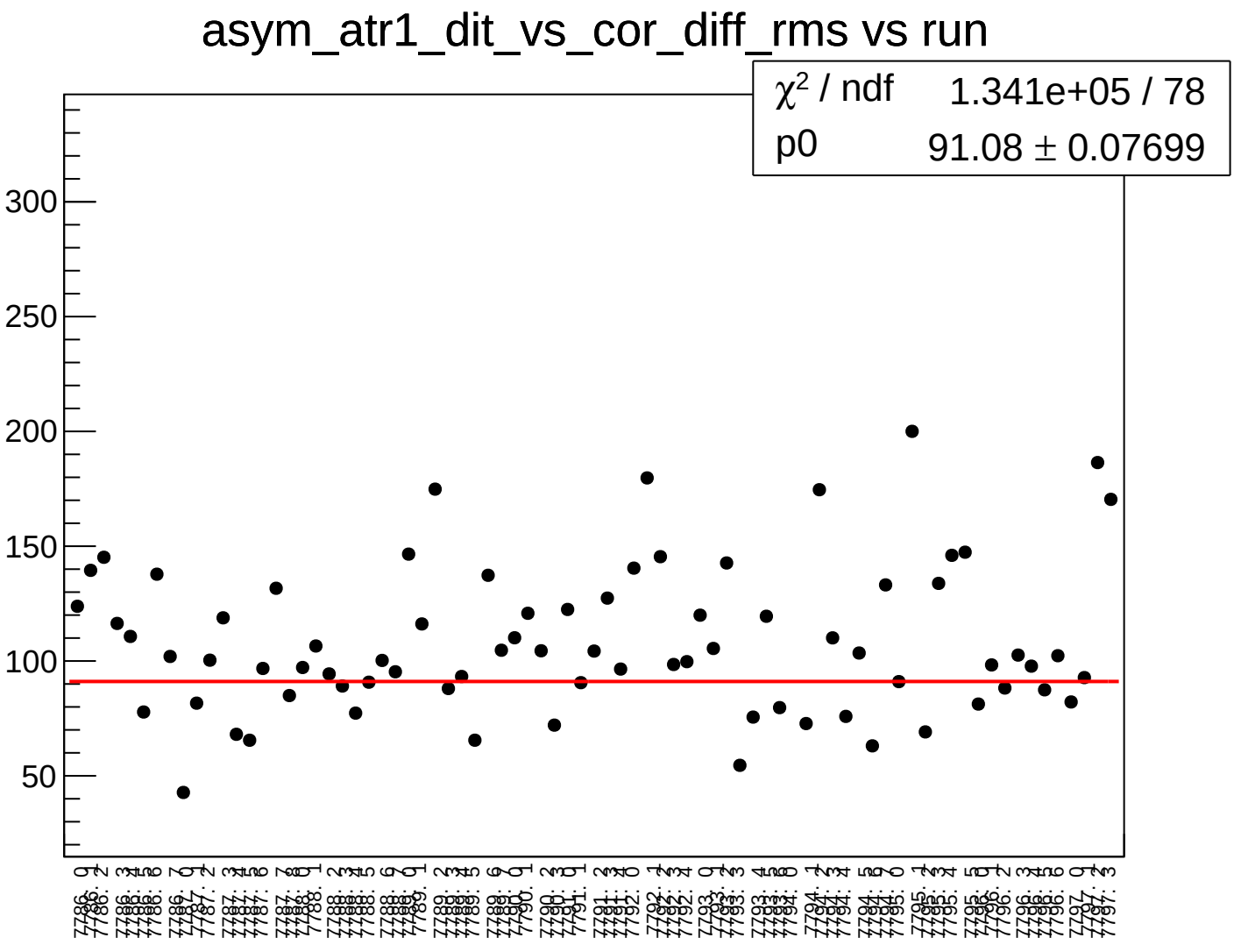

asym_atr1_rms vs run
χ^2 / ndf 276.8 / 78
p0 3213 ± 2.595
3400
3350
3300
3250
3200
3150
3100

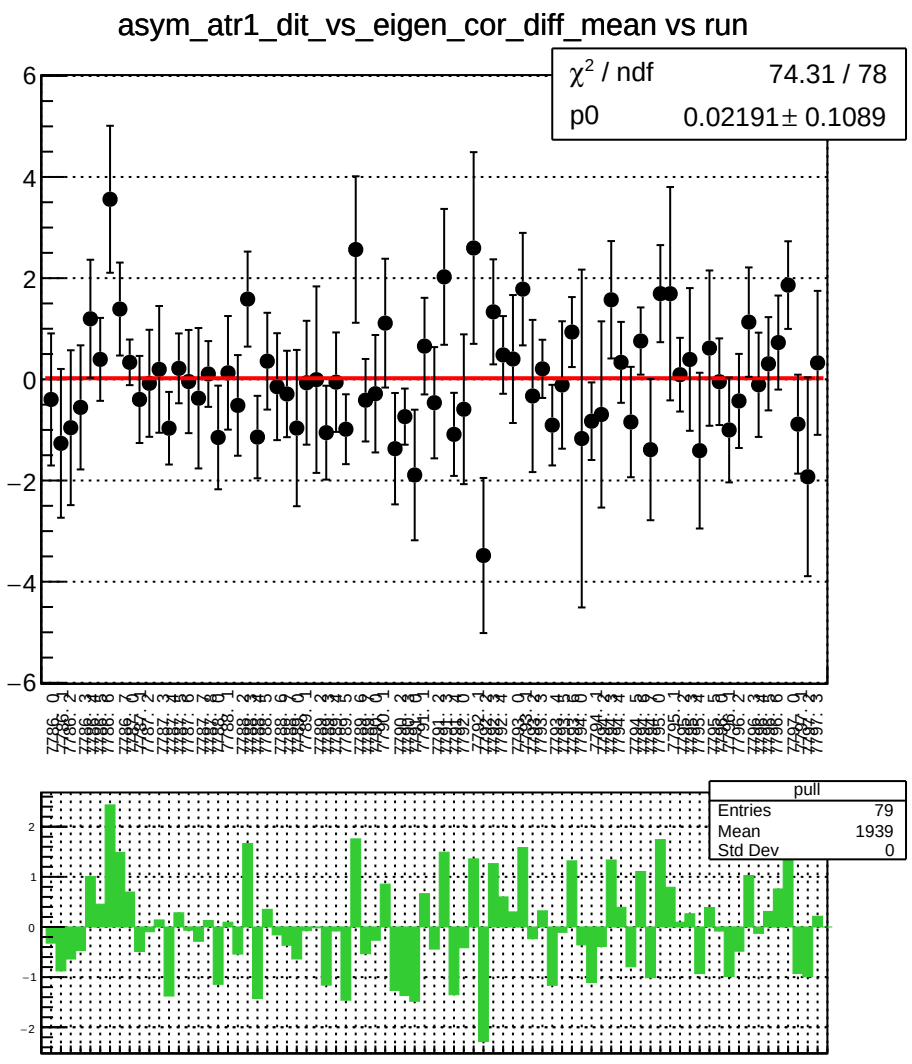

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 61.3 / 78
p0 −2.893e−14 ± 1.265e−13
pull
Entries 79
Mean 112.7
Std Dev 0
pull1D
Entries 79
Mean −0.04415
Std Dev 0.8798

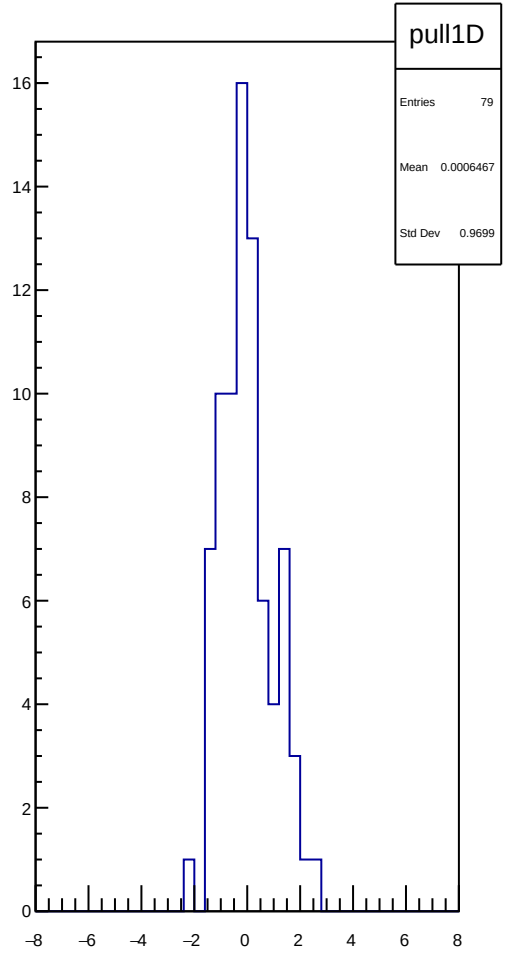

asym_atr1_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.498e+05 / 78
p0 6.838e−11 ± 8.948e−14
1
0.8
0.6
0.4
0.2
0

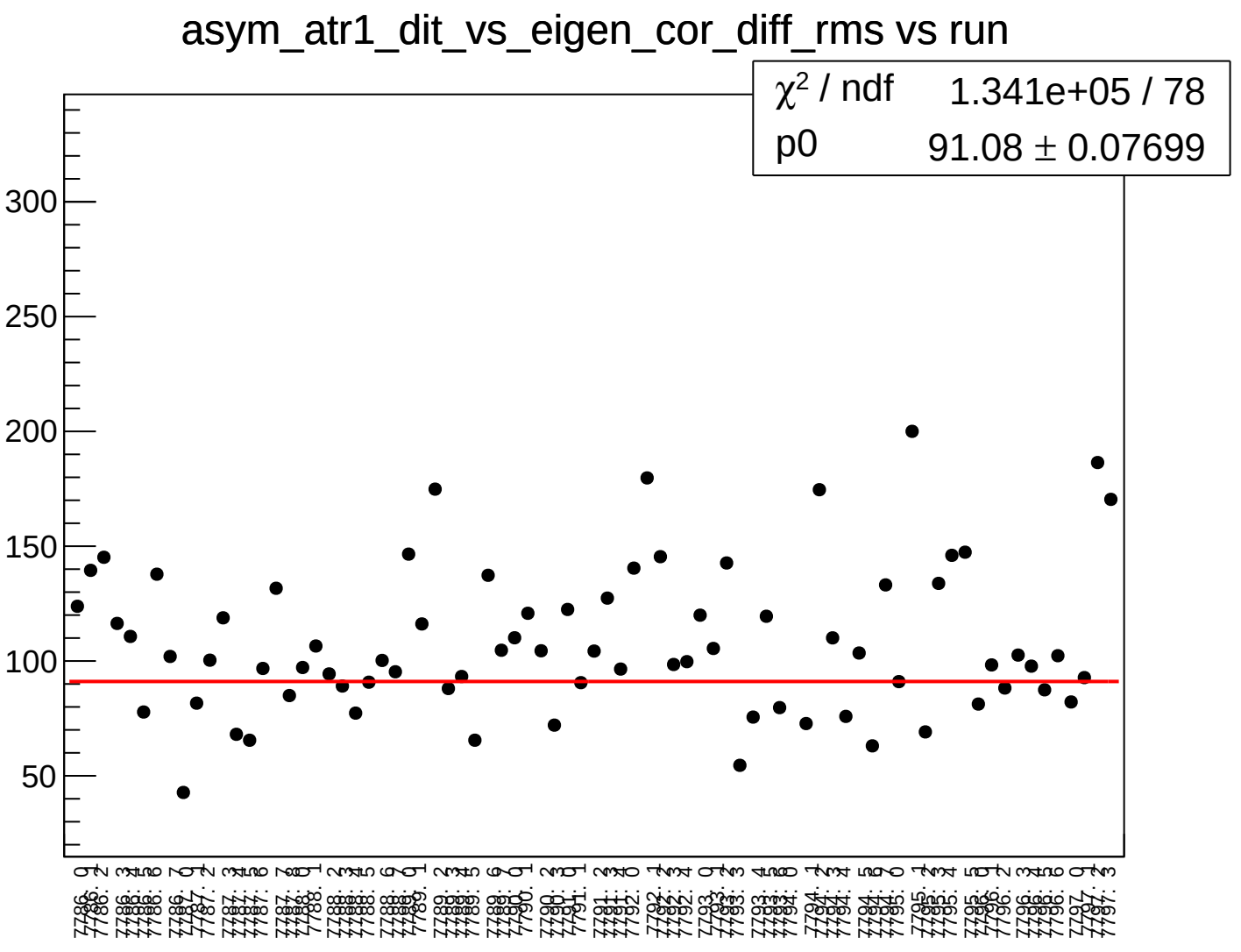

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 74.31 / 78
p0 0.02191 ± 0.1089
pull
Entries 79
Mean 1939
Std Dev 0

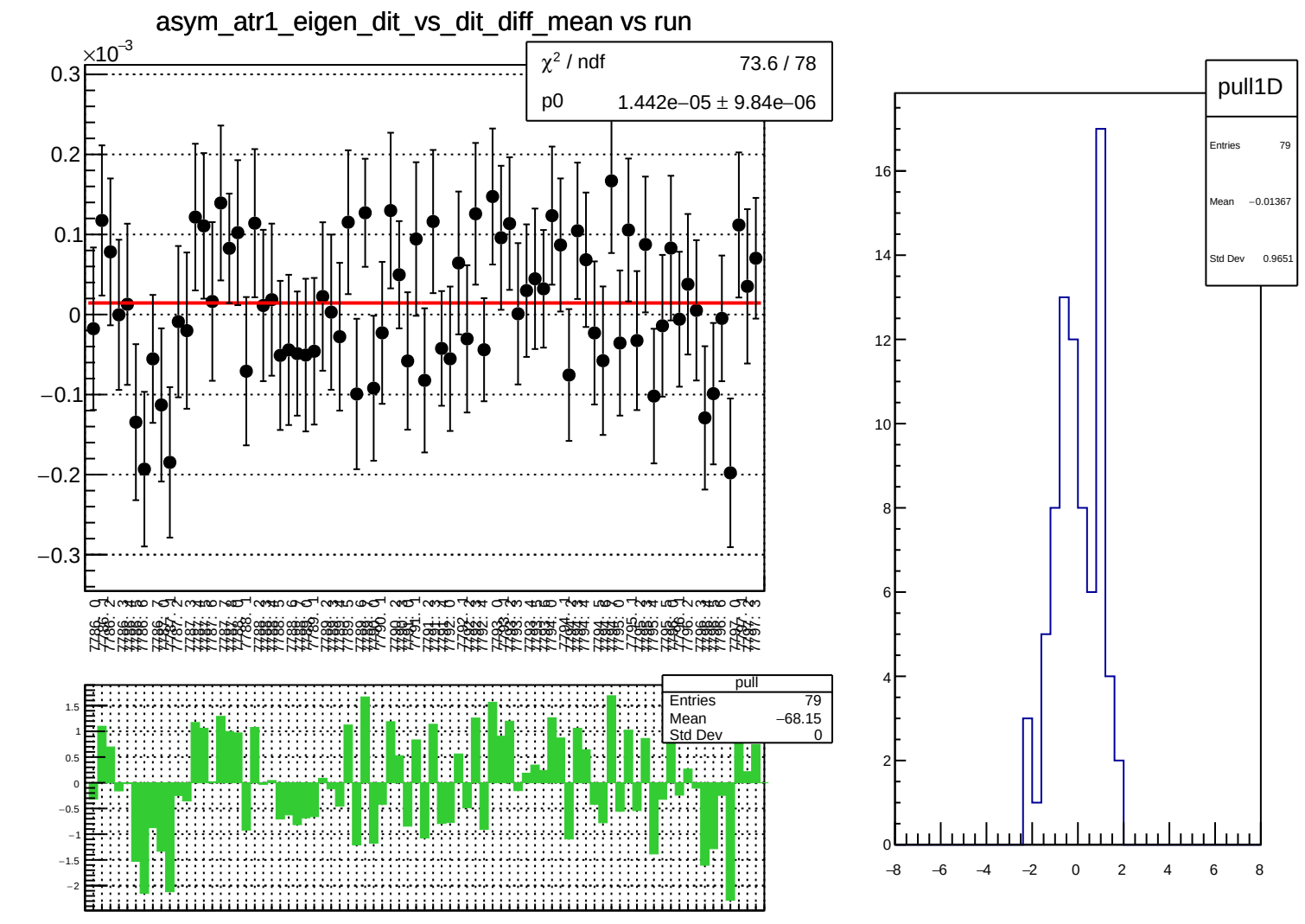

pull1D
Entries 79
Mean 0.0006467
Std Dev 0.9699

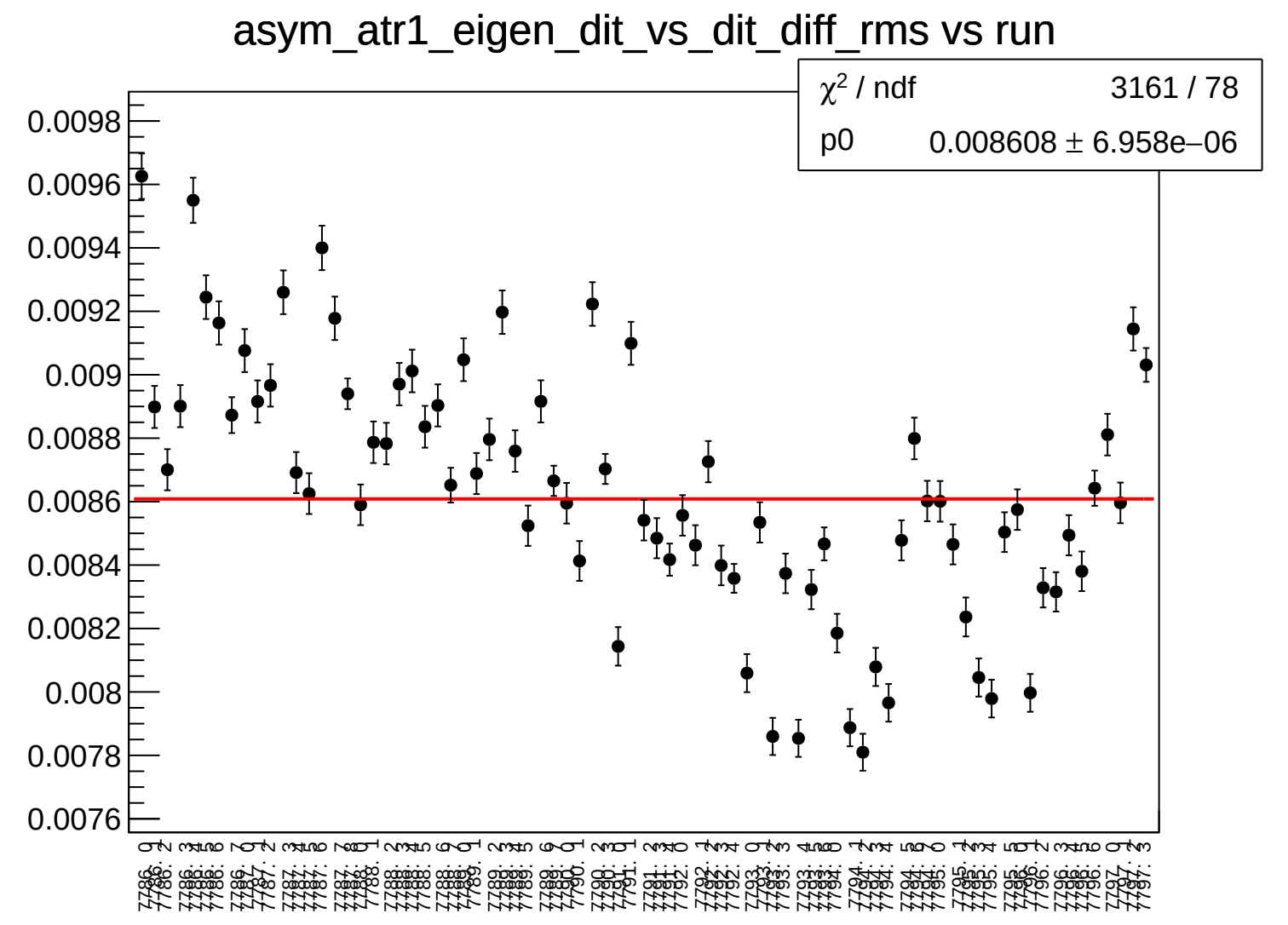

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.341e+05 / 78
p0 91.08 ± 0.07699
300
250
200
150
100
50

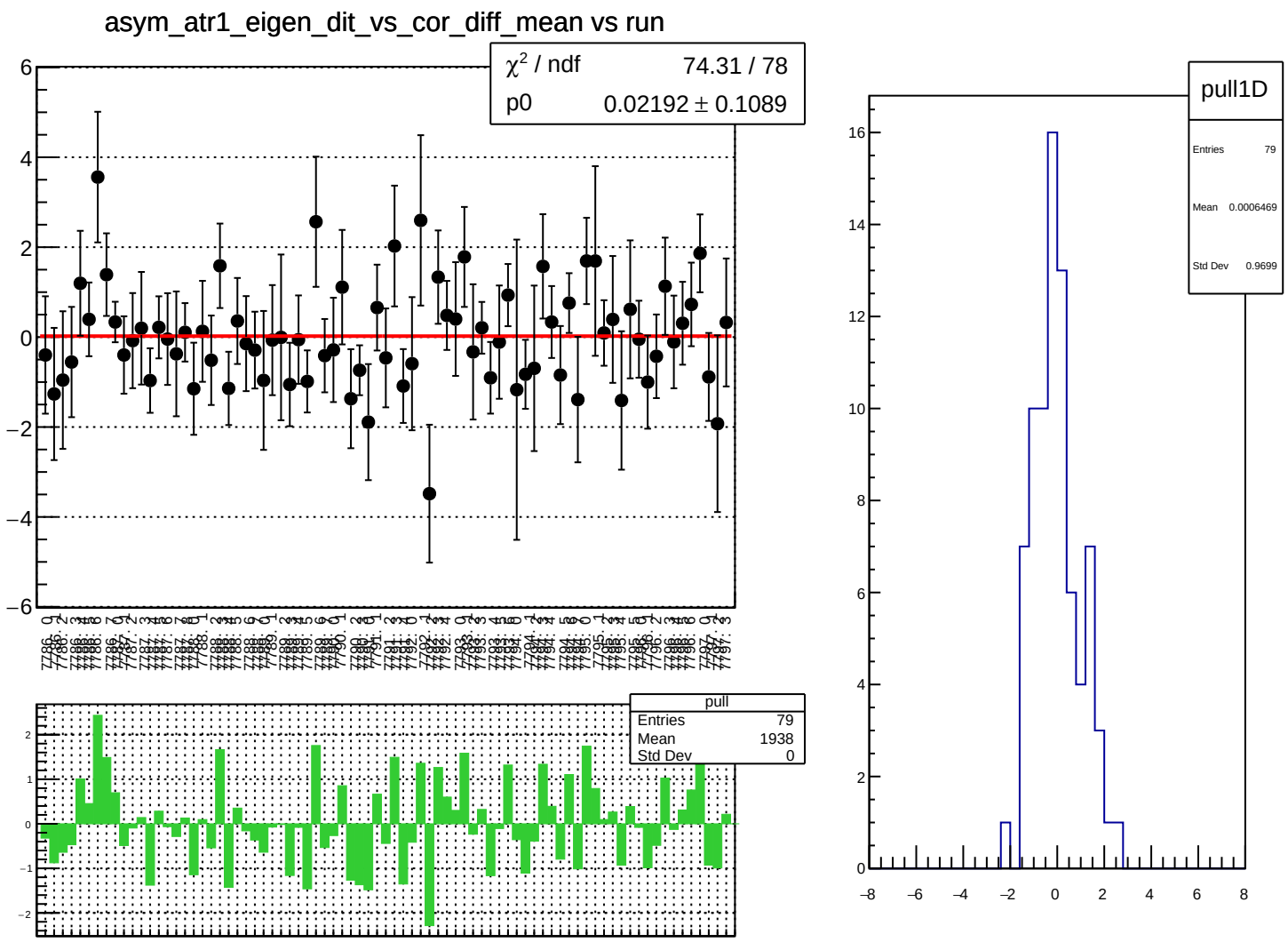

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.31 / 78
p0 0.02191 ± 0.1089
pull
Entries 79
Mean 1939
Std Dev 0

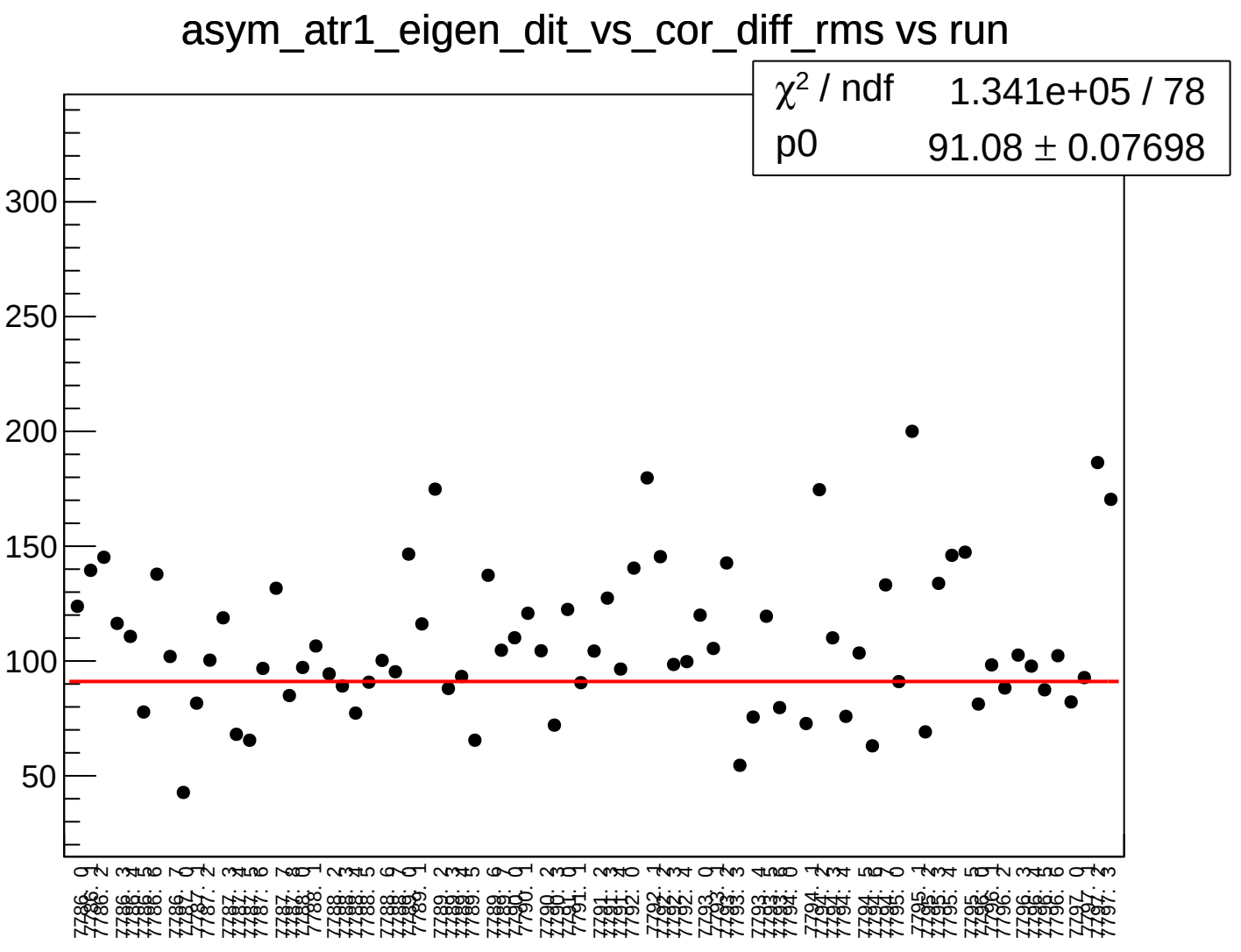

pull1D
Entries 79
Mean 0.0006467
Std Dev 0.9699

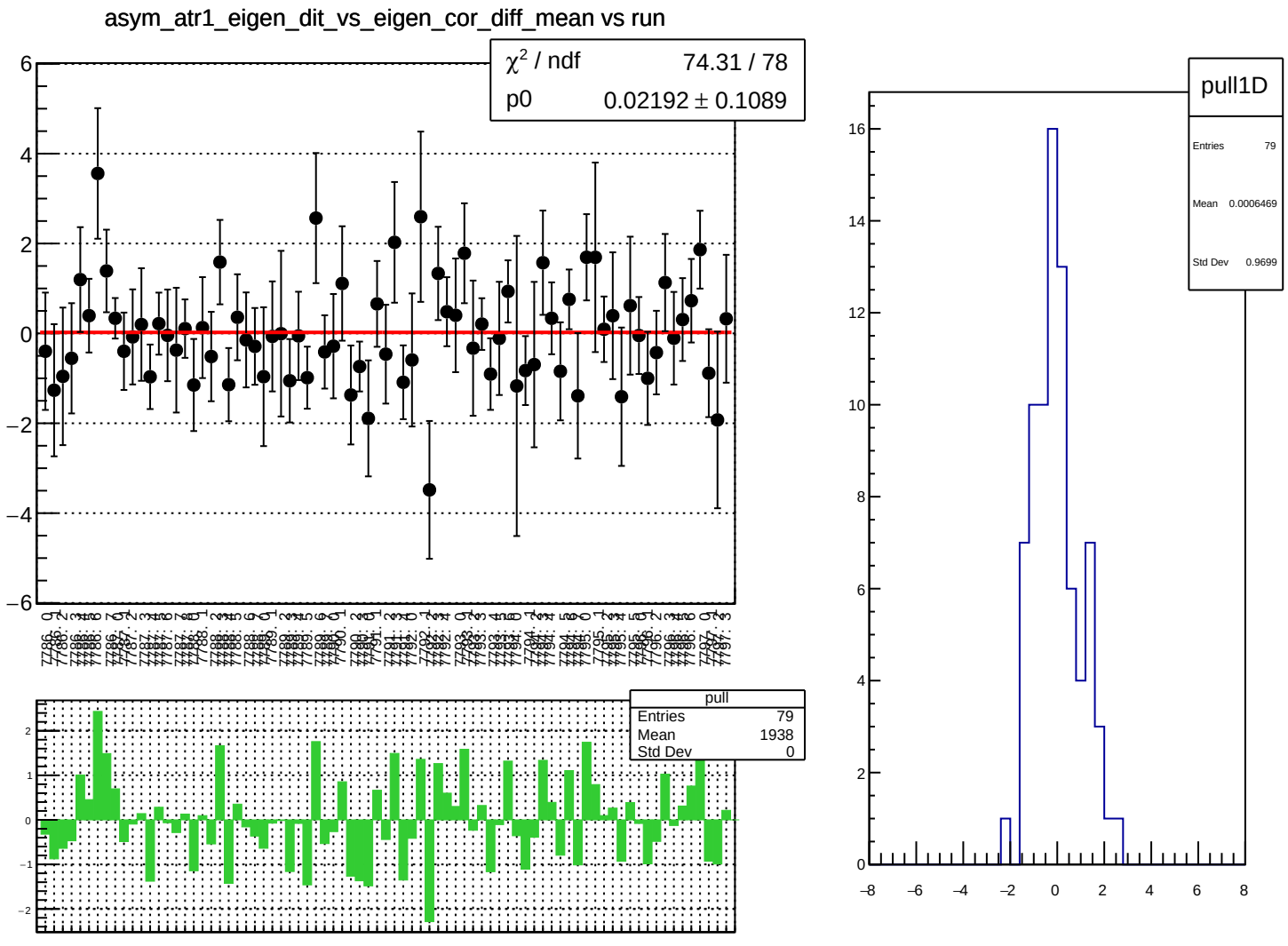

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.341e+05 / 78
p0 91.08 ± 0.07699
300
250
200
150
100
50

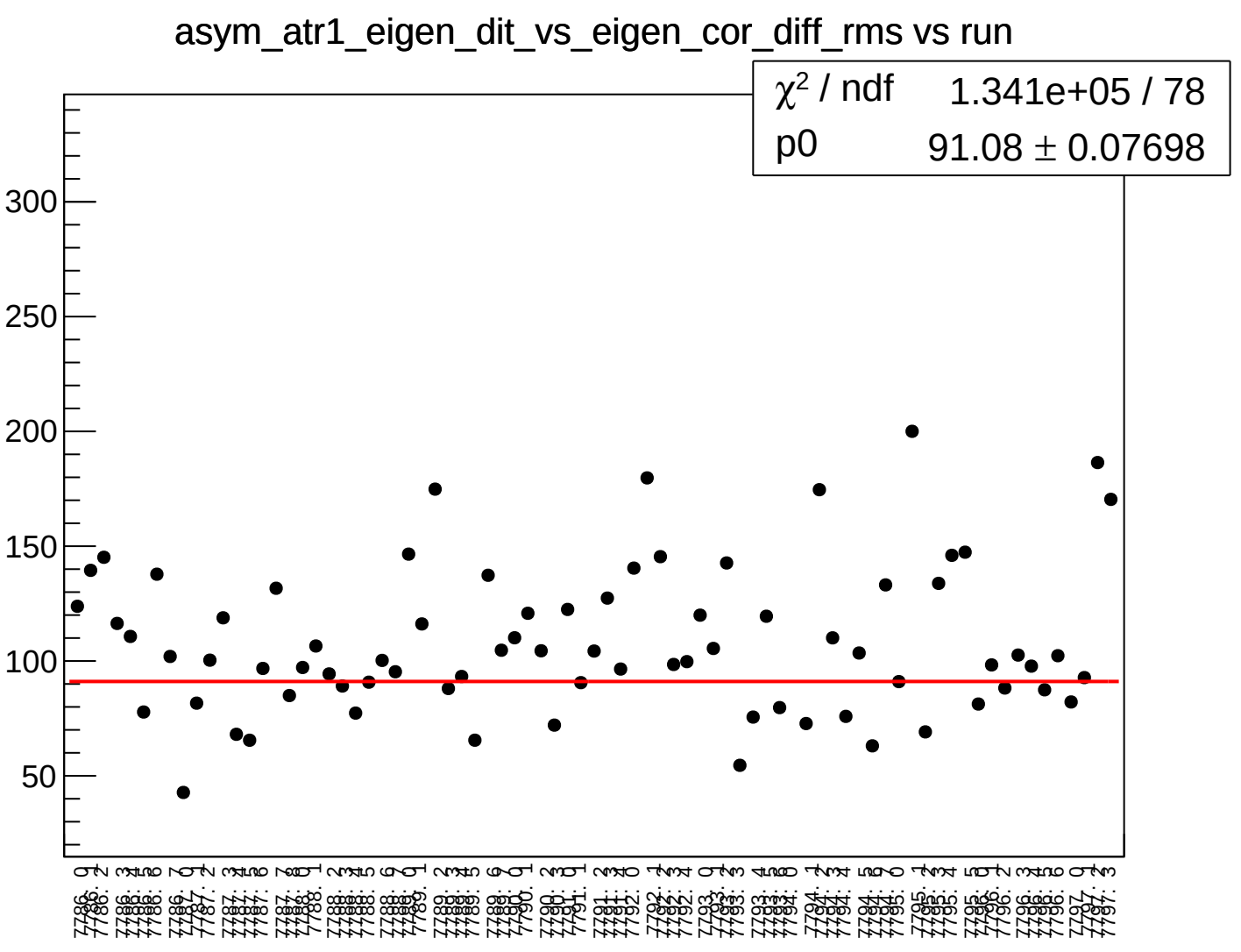

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.6 / 78
p0 1.442e−05 ± 9.84e−06
pull
Entries 79
Mean −68.15
Std Dev 0
pull1D
Entries 79
Mean −0.01367
Std Dev 0.9651

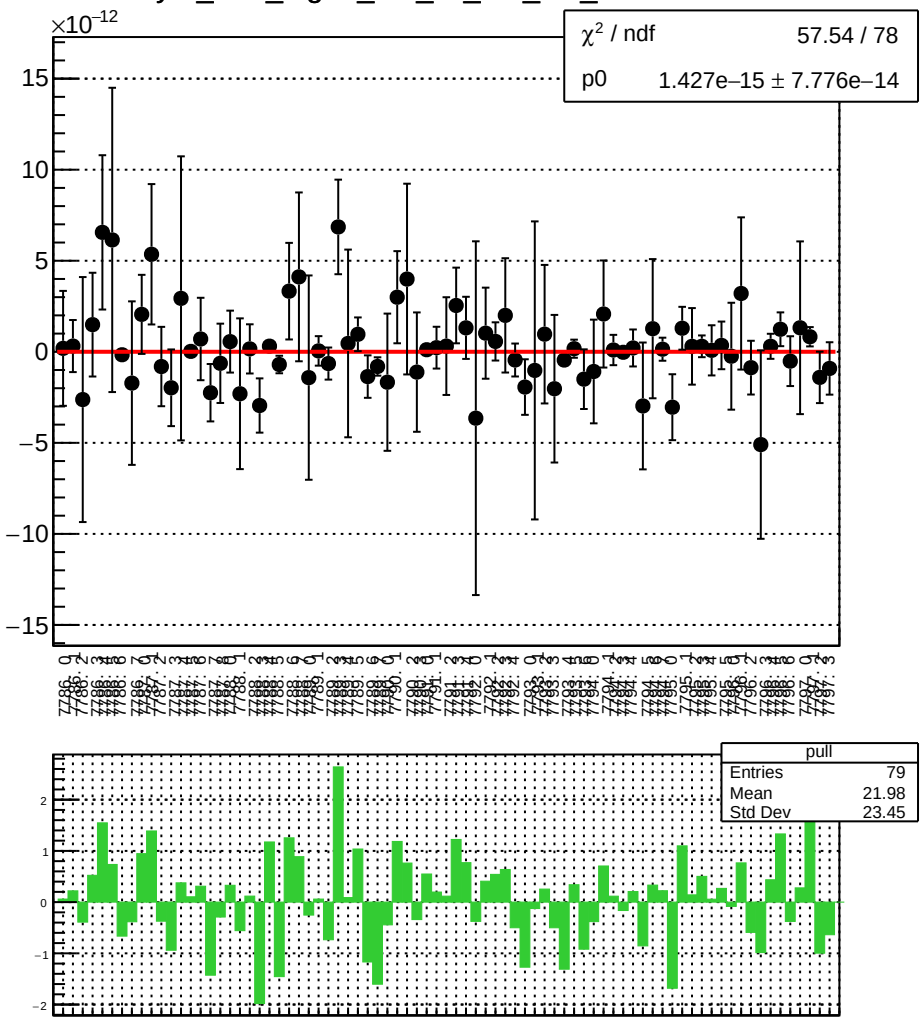

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3161 / 78
p0 0.008608 ± 6.958e−06
0.0098
0.0096
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076

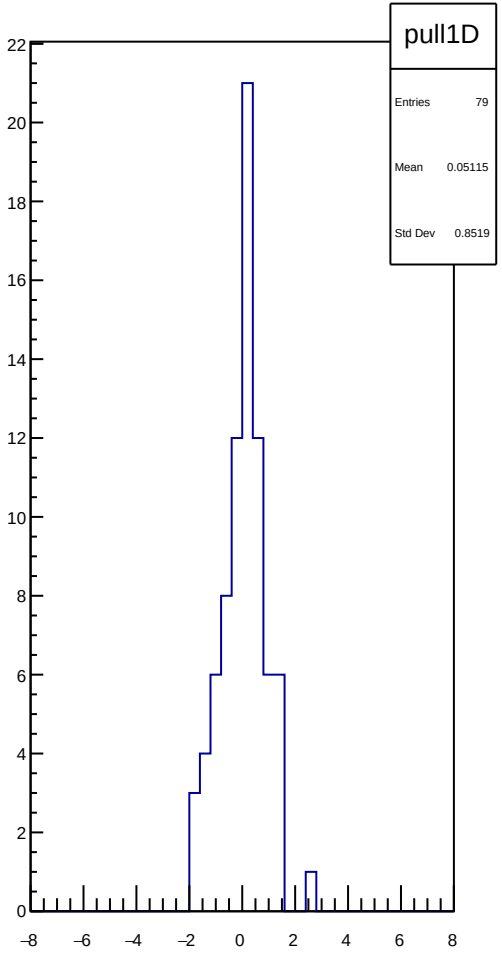

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.31 / 78
p0 0.02192 ± 0.1089
pull
Entries 79
Mean 1938
Std Dev 0
pull1D
Entries 79
Mean 0.0006469
Std Dev 0.9699

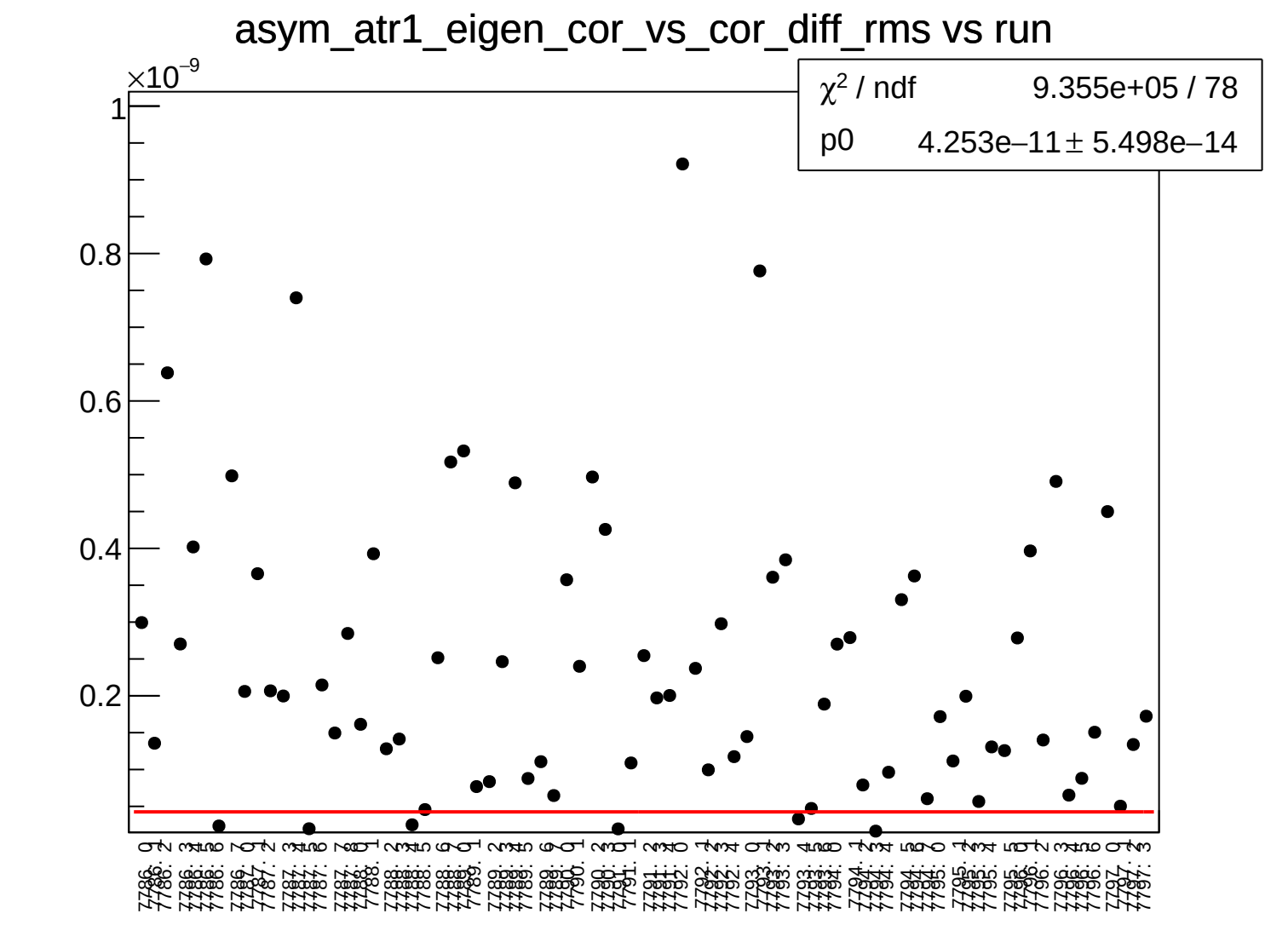

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.341e+05 / 78
p0 91.08 ± 0.07698
300
250
200
150
100
50

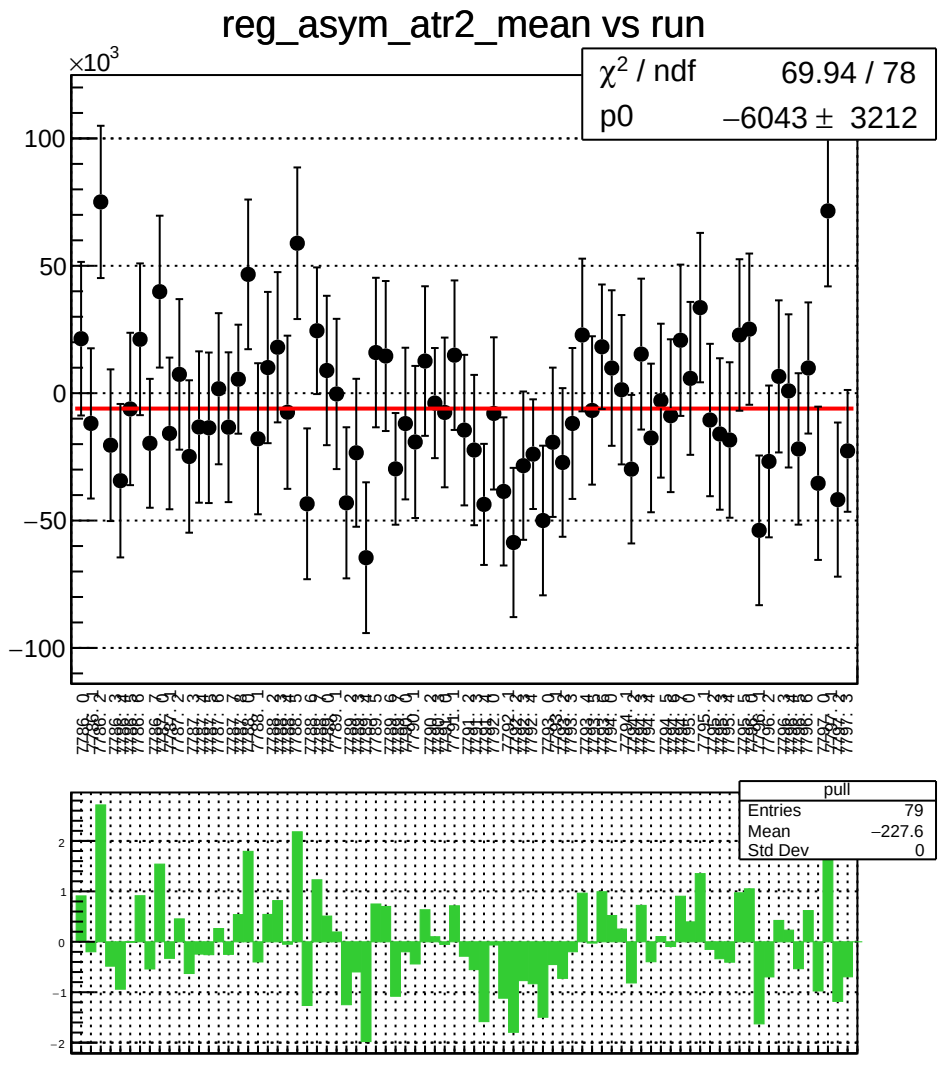

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.31 / 78
p0 0.02192 ± 0.1089
pull
Entries 79
Mean 1938
Std Dev 0
pull1D
Entries 79
Mean 0.0006469
Std Dev 0.9699

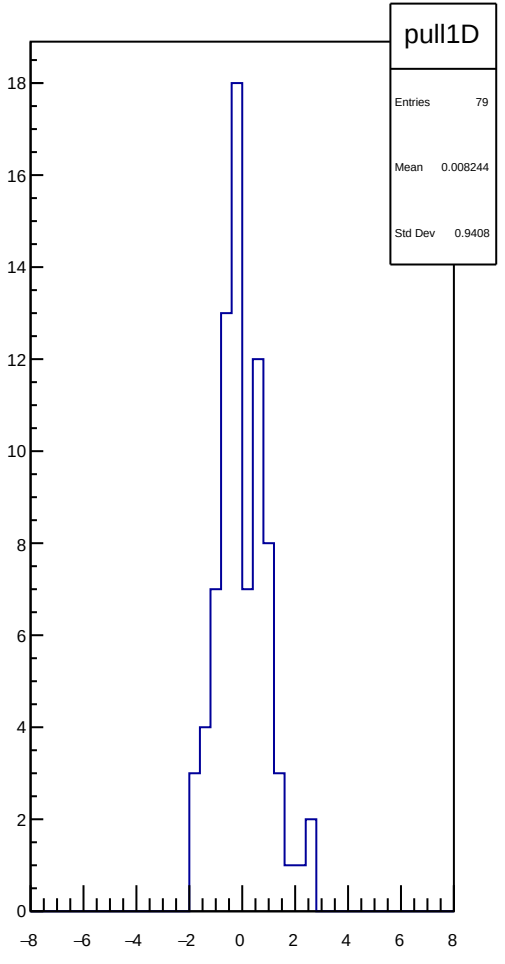

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.341e+05 / 78
p0 91.08 ± 0.07698
300
250
200
150
100
50

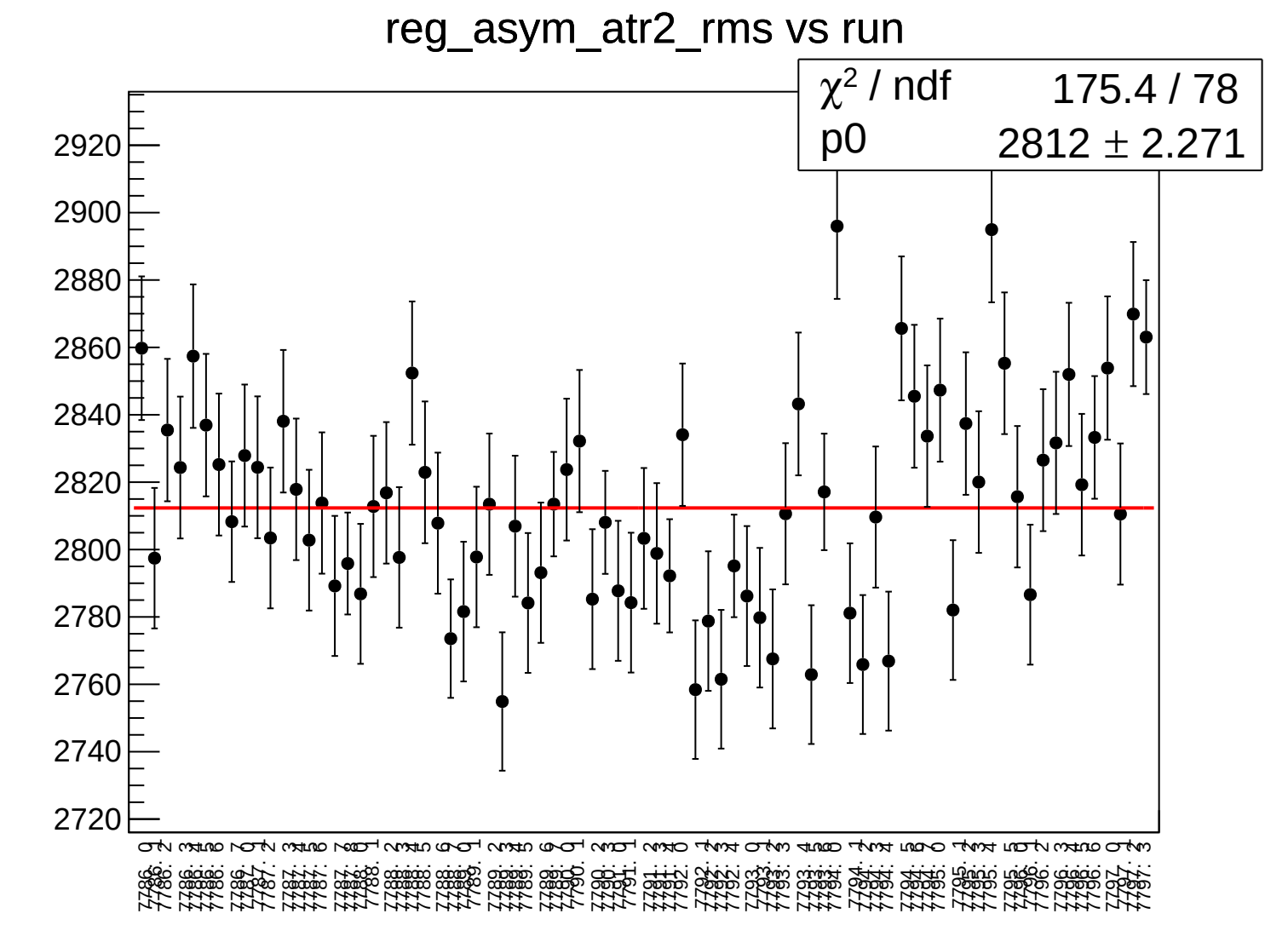

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 57.54 / 78
p0 1.427e−15 ± 7.776e−14
pull
Entries 79
Mean 21.98
Std Dev 23.45

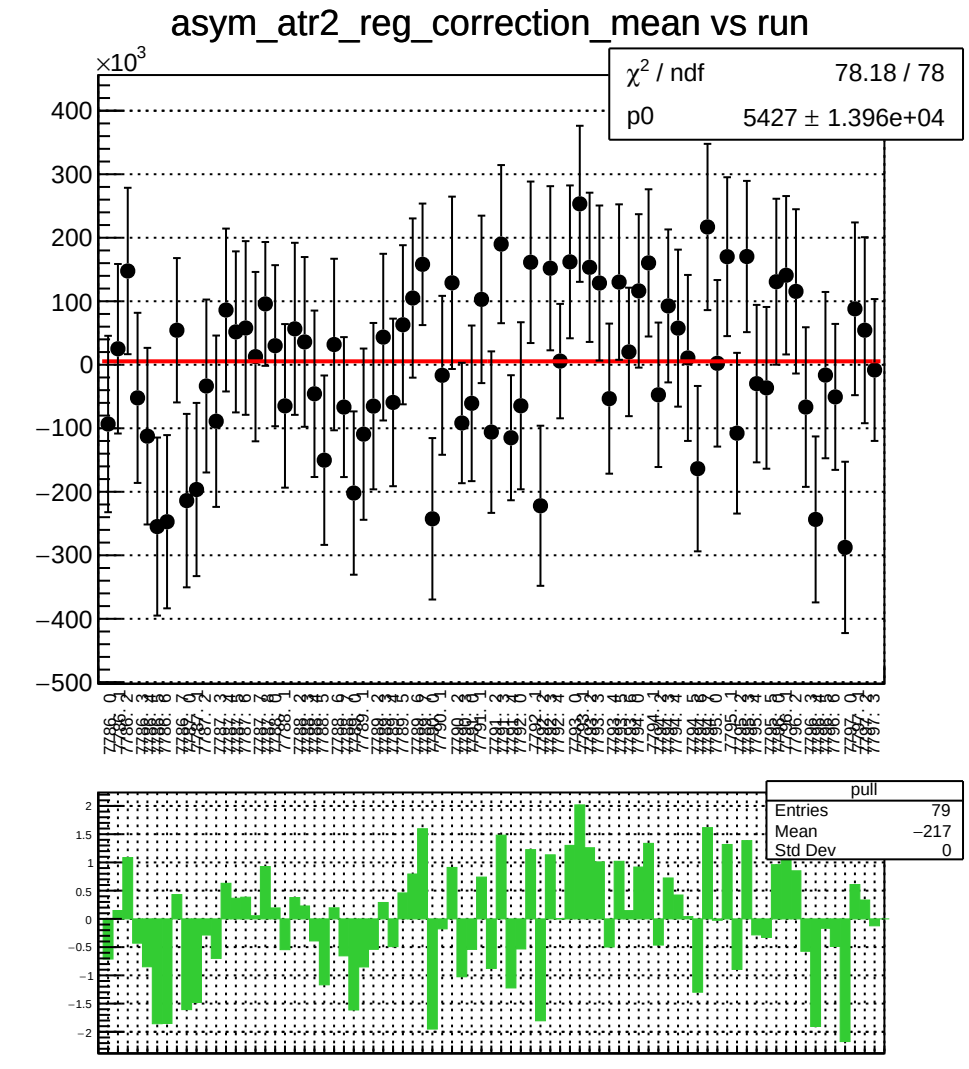

pull1D
Entries 79
Mean 0.05115
Std Dev 0.8519

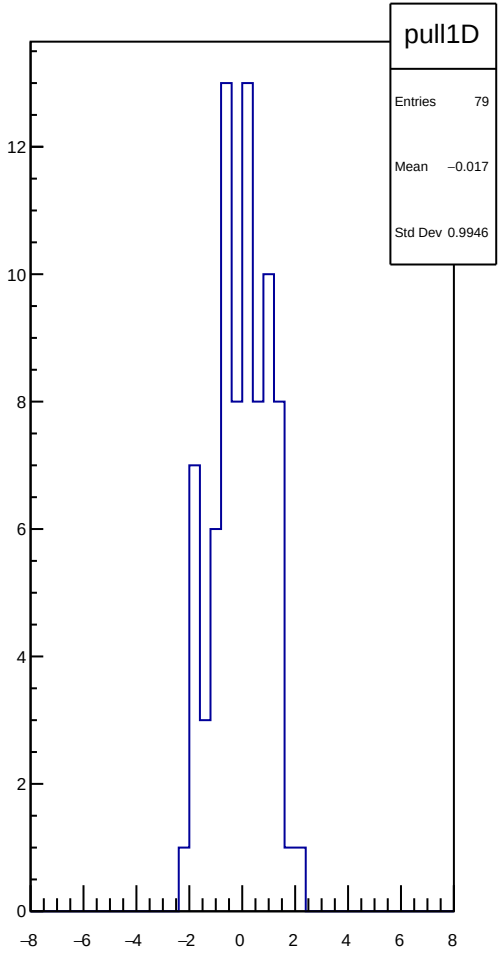

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.355e+05 / 78
p0 4.253e−11 ± 5.498e−14
1
0.8
0.6
0.4
0.2

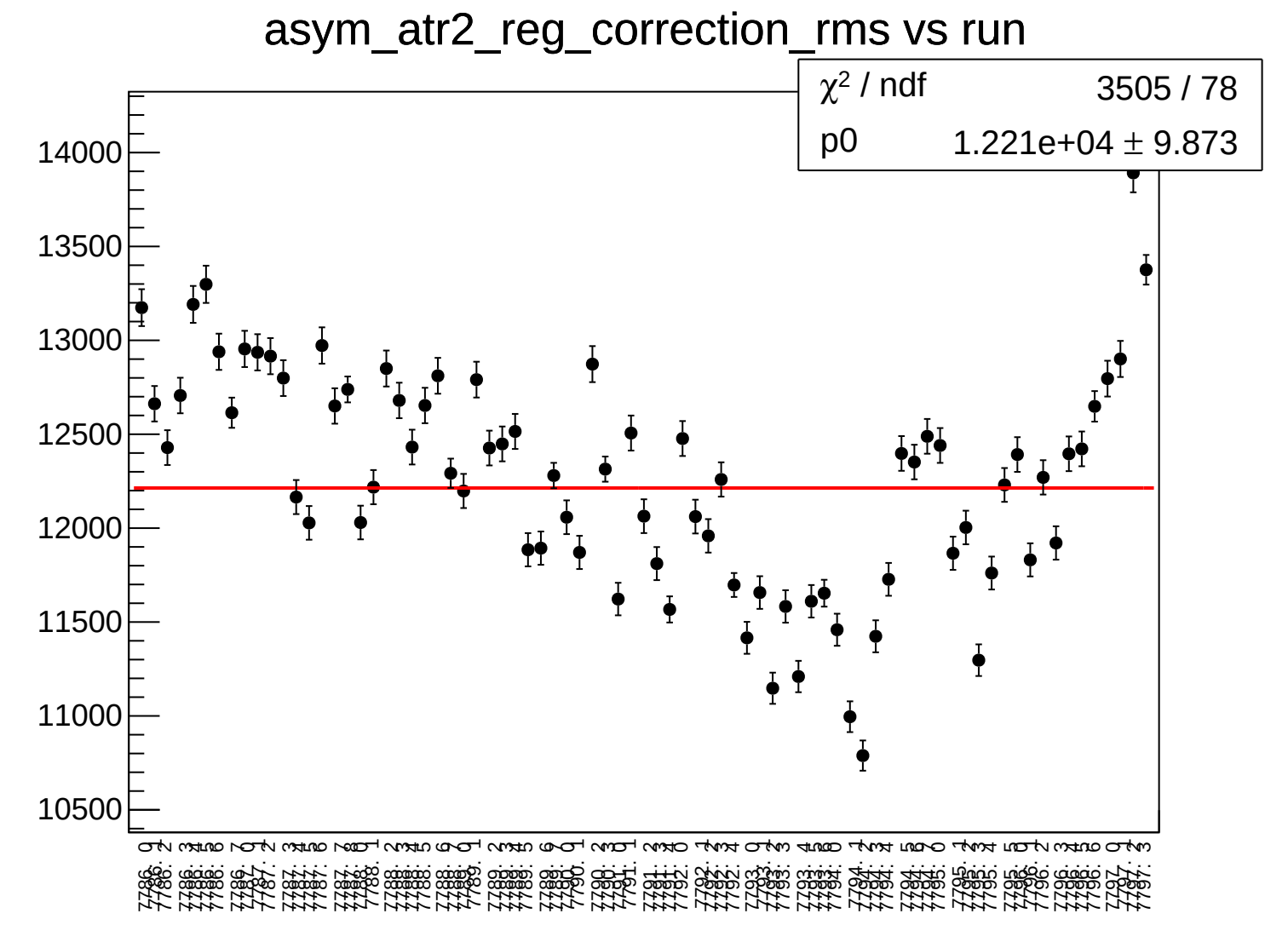

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 69.94 / 78
p0 −6043 ± 3212
100
50
0
−50
−100
pull
Entries 79
Mean −227.6
Std Dev 0
2
1
0
−1
−2

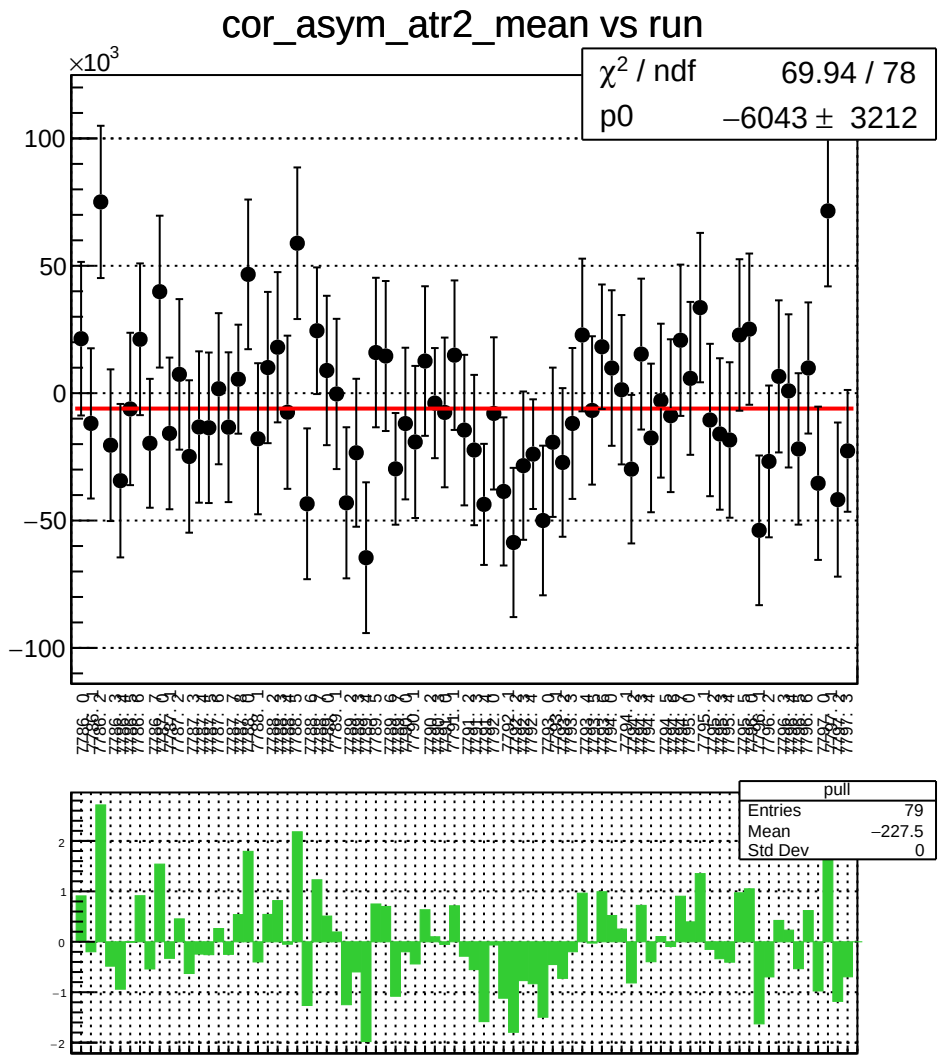

pull1D
Entries 79
Mean 0.008244
Std Dev 0.9408
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

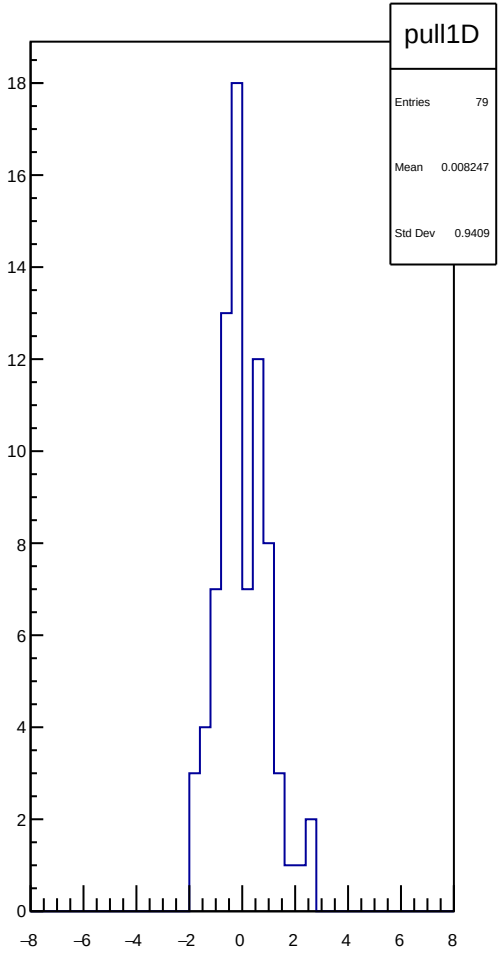

reg_asym_atr2_rms vs run
χ^2 / ndf 175.4 / 78
p0 2812 ± 2.271
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

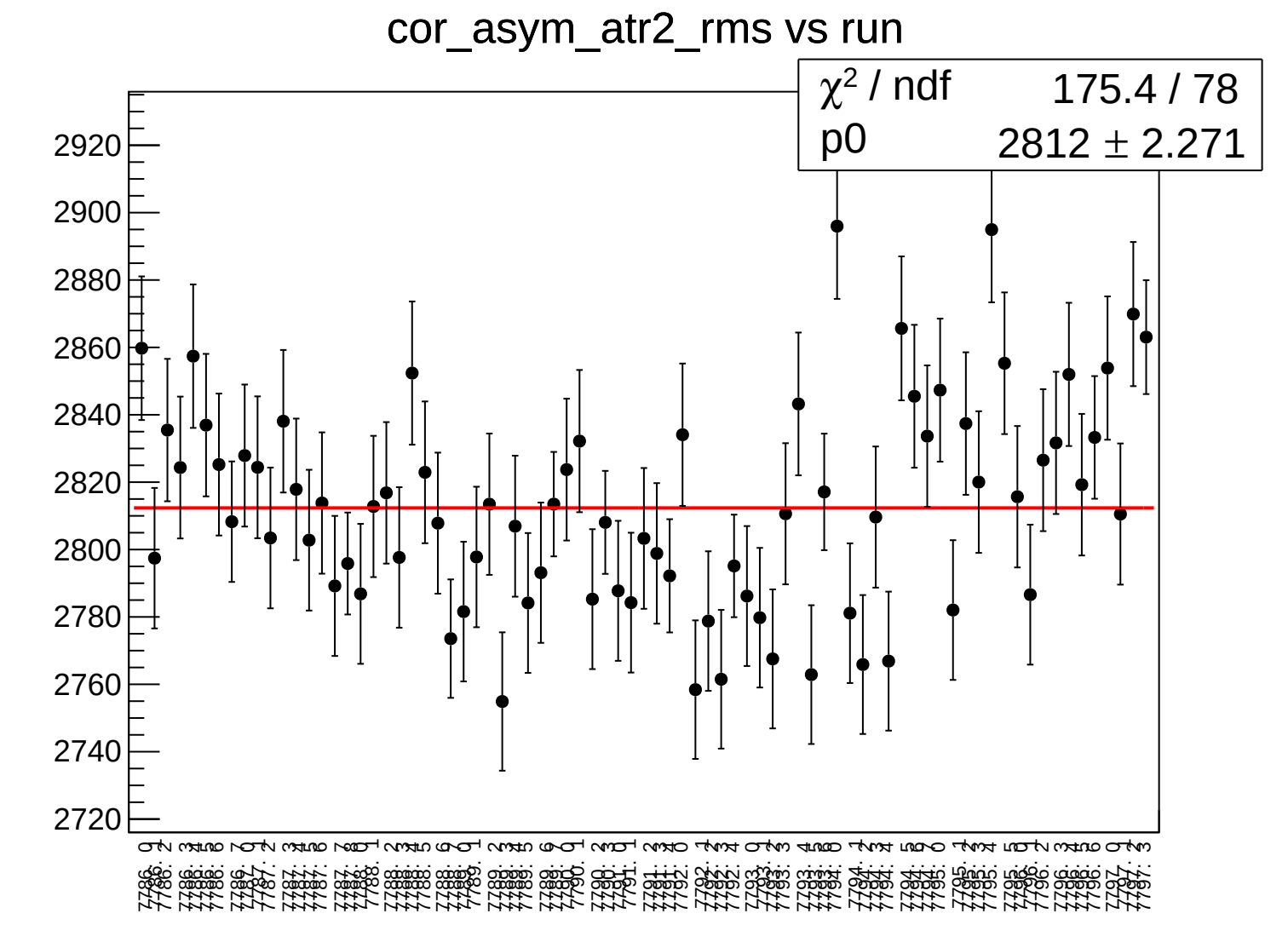

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 78.18 / 78
p0 5427 ± 1.396e+04
pull
Entries 79
Mean −217
Std Dev 0

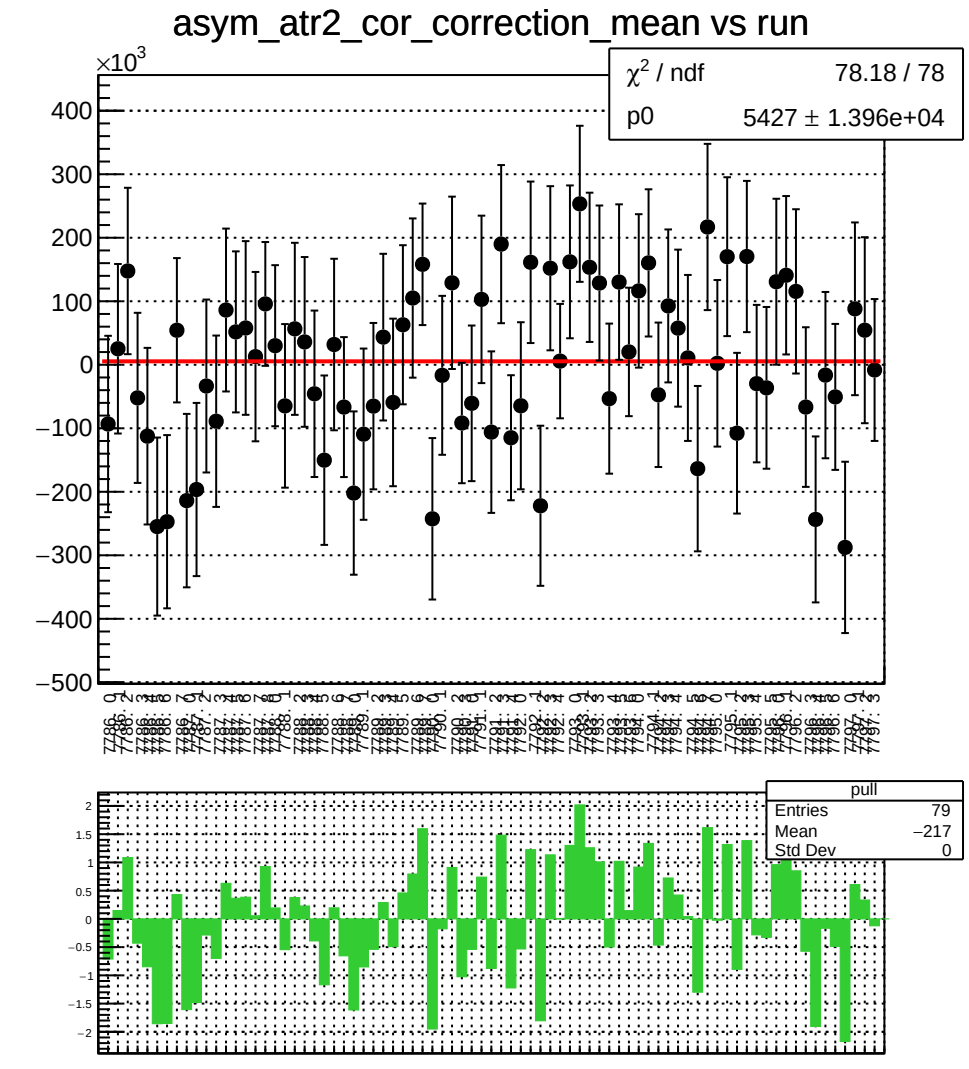

pull1D
Entries 79
Mean −0.017
Std Dev 0.9946

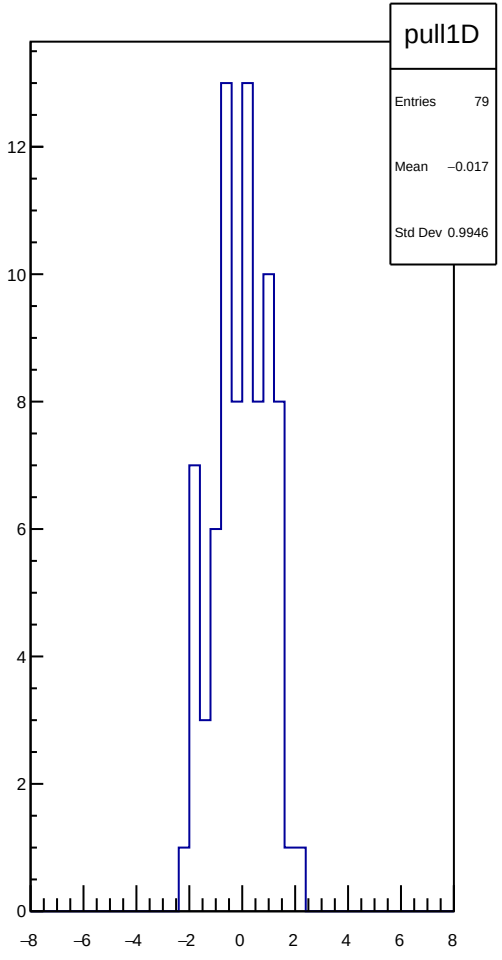

asym_atr2_reg_correction_rms vs run
χ² / ndf 3505 / 78
p0 1.221e+04 ± 9.873
14000
13500
13000
12500
12000
11500
11000
10500

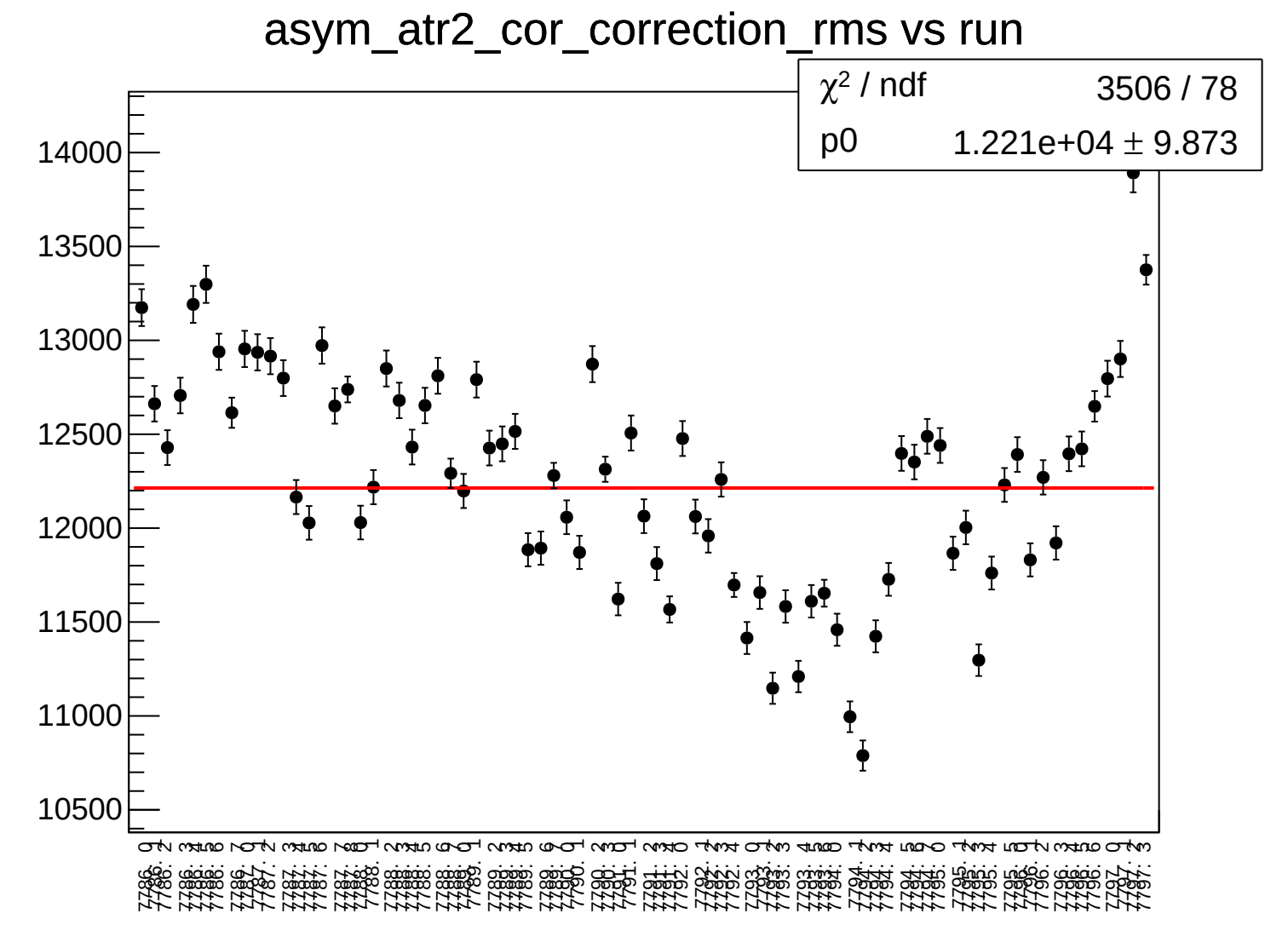

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 69.94 / 78
p0 −6043 ± 3212
100
50
0
−50
−100
pull
Entries 79
Mean −227.5
Std Dev 0
2
1
0
−1
−2

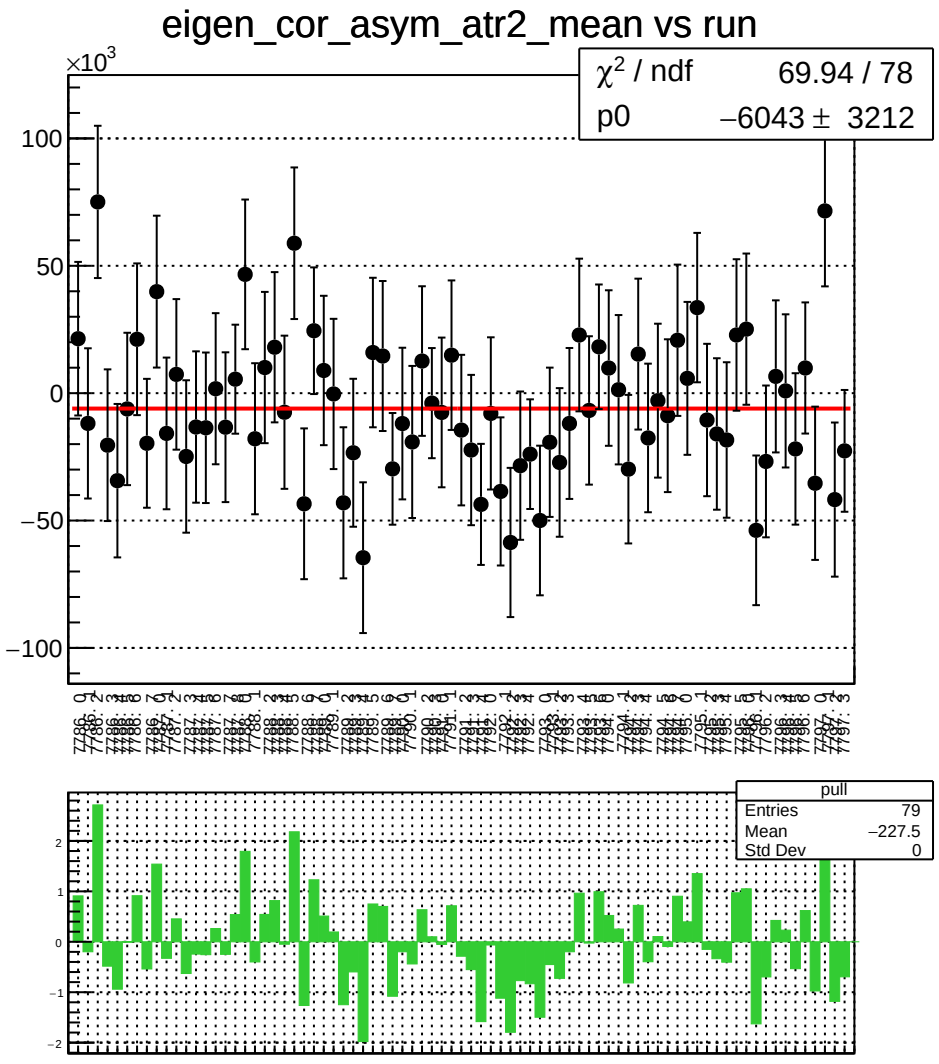

pull1D
Entries 79
Mean 0.008247
Std Dev 0.9409
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

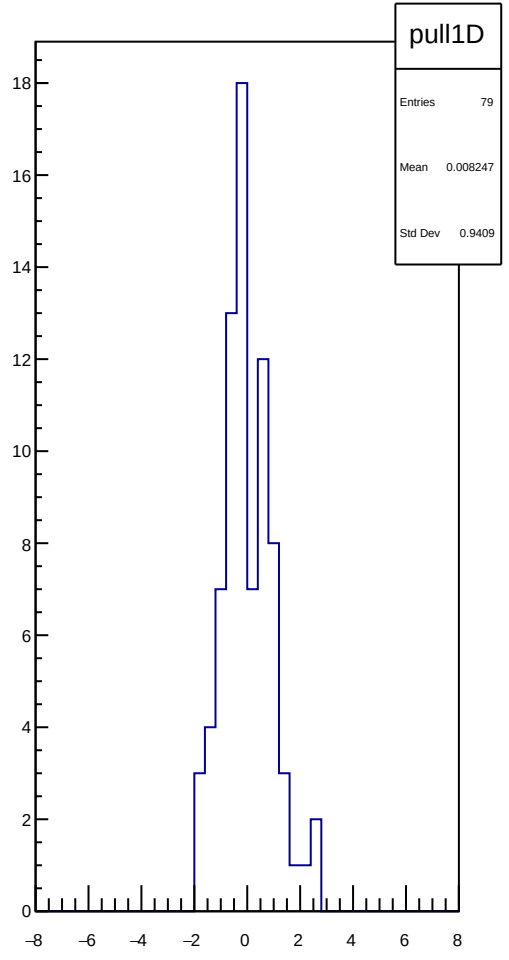

cor_asym_atr2_rms vs run
χ² / ndf 175.4 / 78
p0 2812 ± 2.271
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

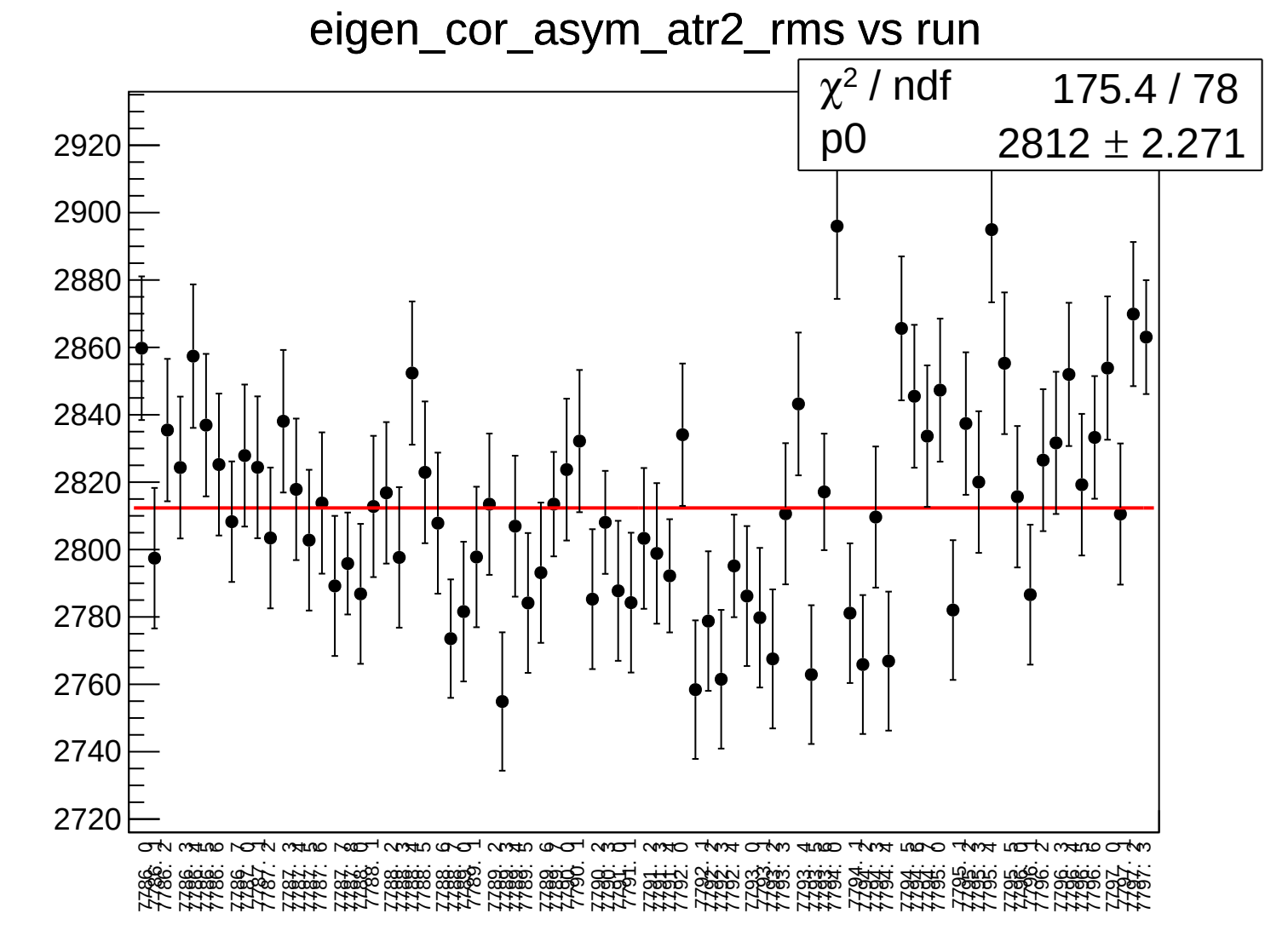

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 78.18 / 78
p0 5427 ± 1.396e+04
pull
Entries 79
Mean −217
Std Dev 0

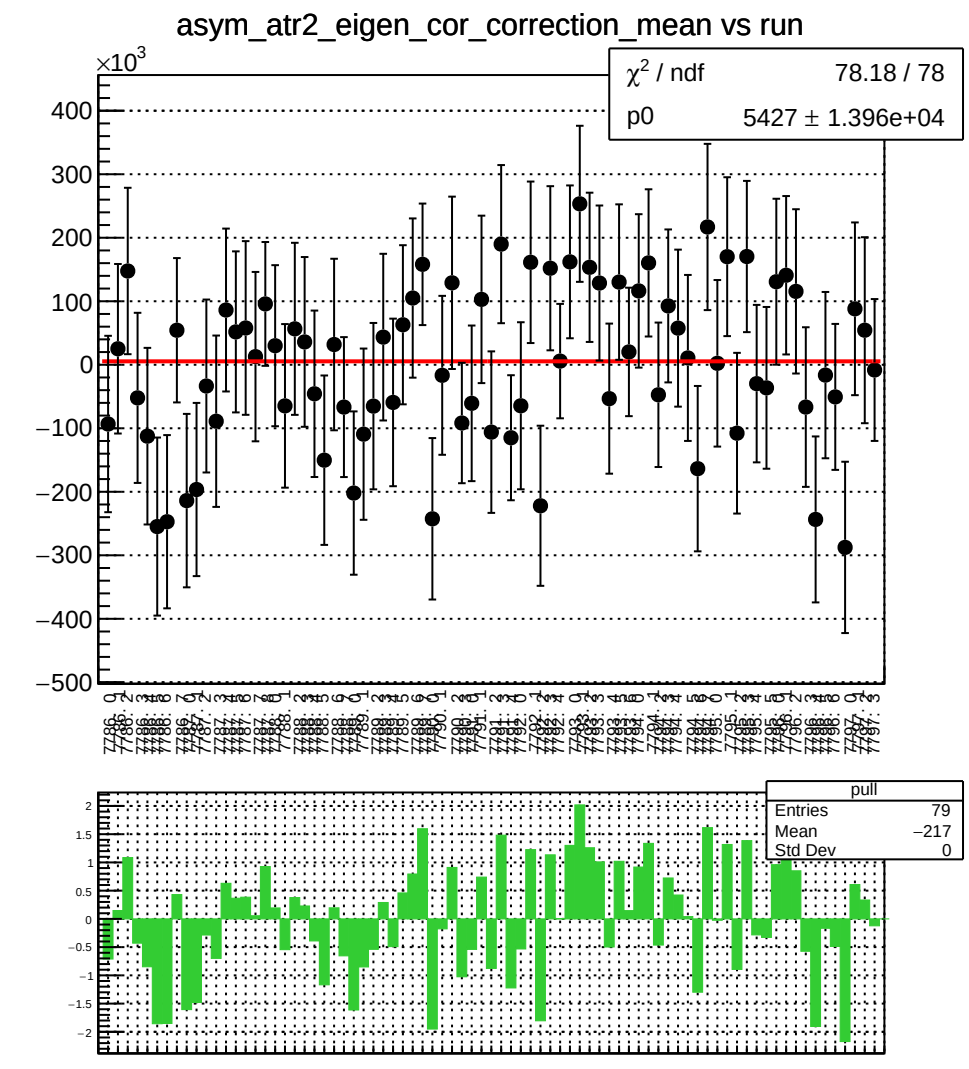

pull1D
Entries 79
Mean −0.017
Std Dev 0.9946

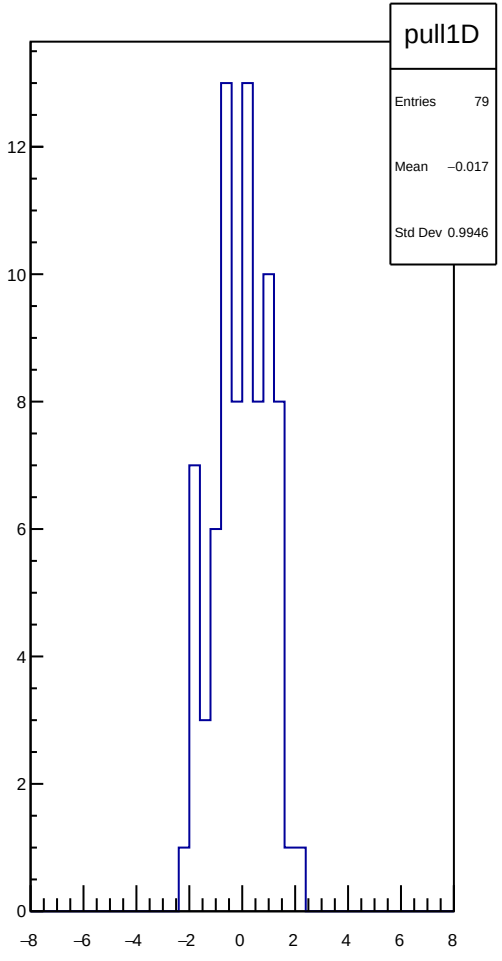

asym_atr2_cor_correction_rms vs run
χ² / ndf 3506 / 78
p0 1.221e+04 ± 9.873
14000
13500
13000
12500
12000
11500
11000
10500

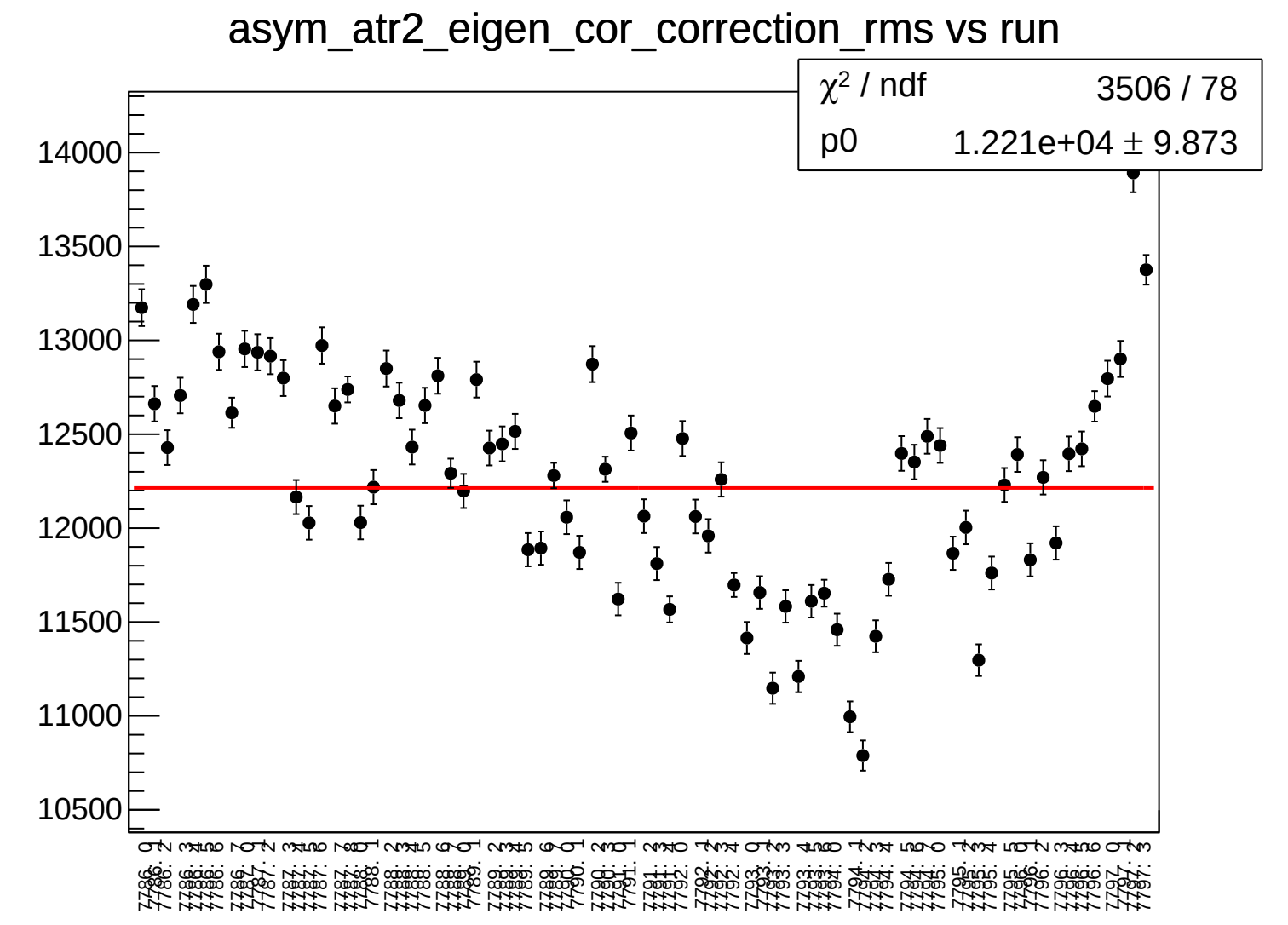

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 69.94 / 78
p0 −6043 ± 3212
100
50
0
−50
−100
pull
Entries 79
Mean −227.5
Std Dev 0
2
1
0
−1
−2

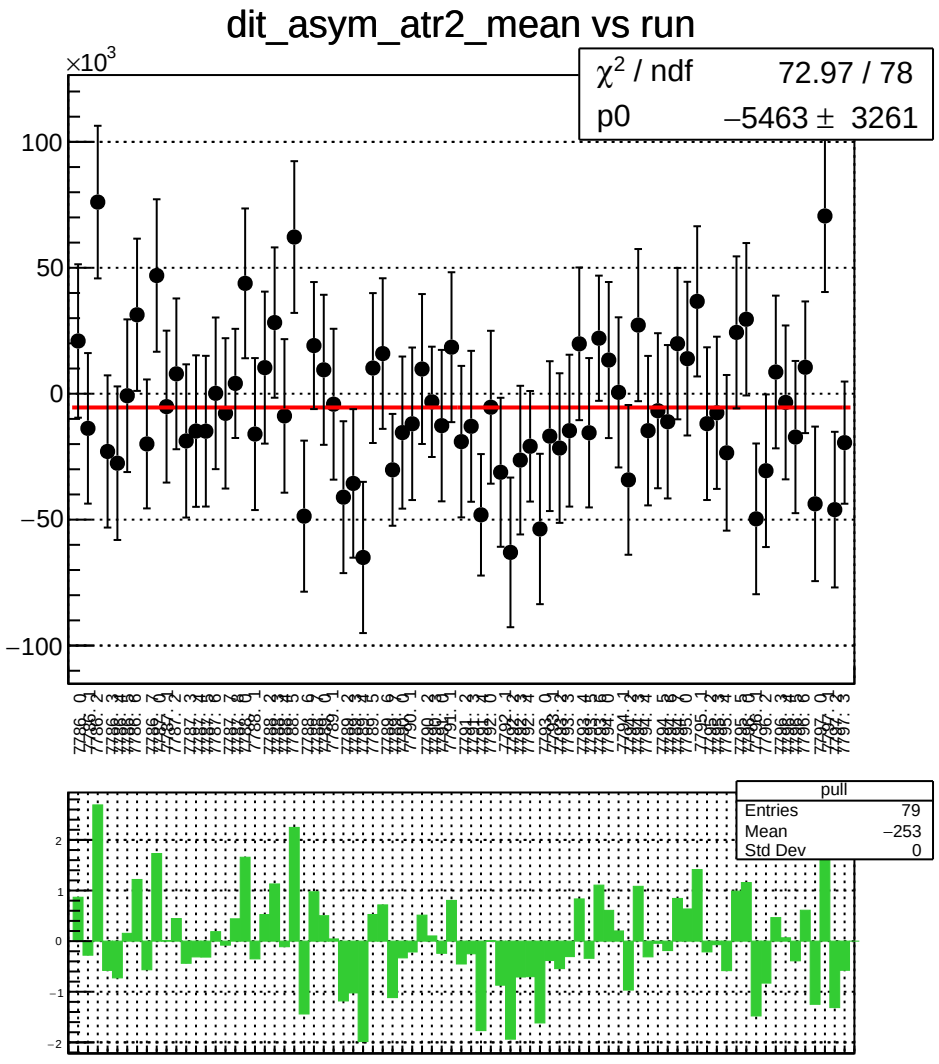

pull1D
Entries 79
Mean 0.008247
Std Dev 0.9409
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

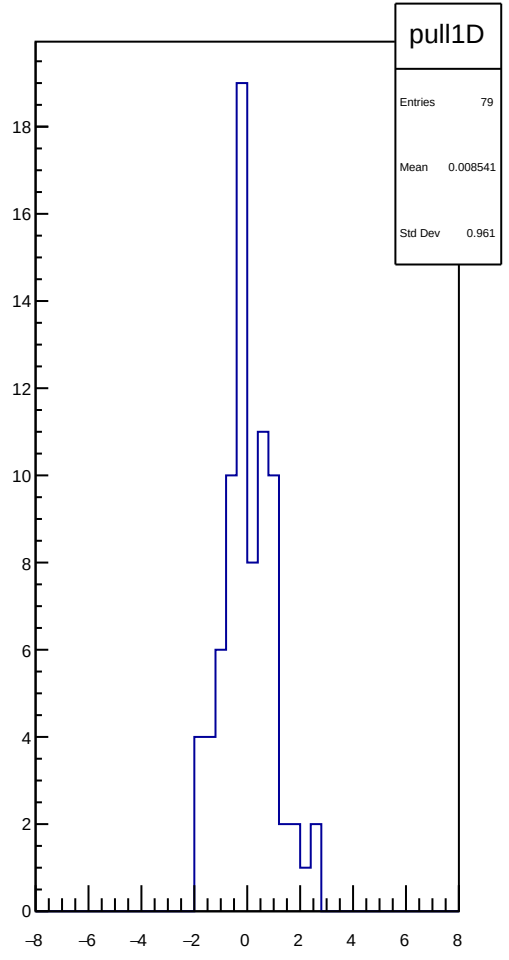

eigen_cor_asym_atr2_rms vs run
χ² / ndf 175.4 / 78
p0 2812 ± 2.271
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

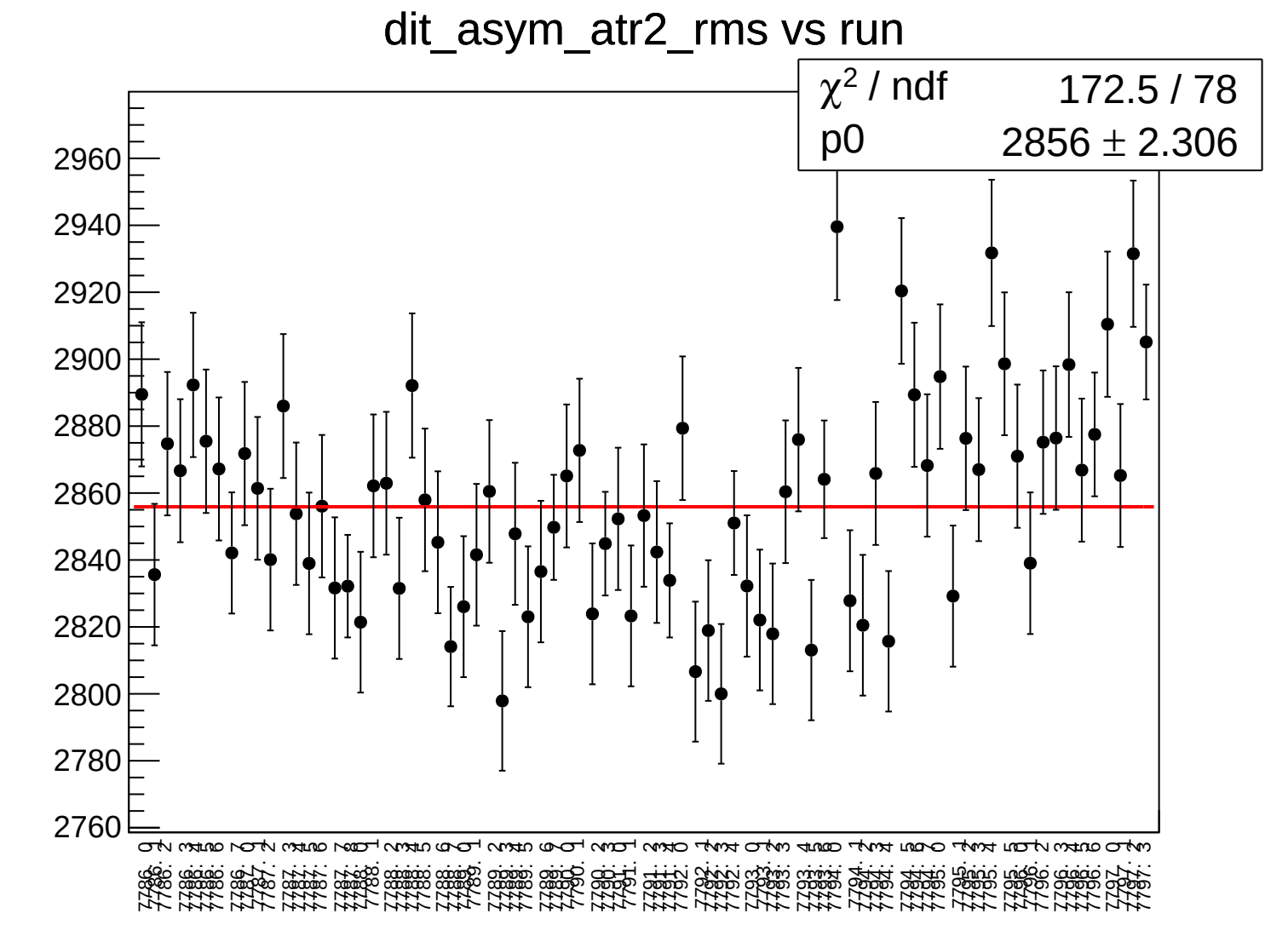

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.18 / 78
p0 5427 ± 1.396e+04
pull
Entries 79
Mean −217
Std Dev 0

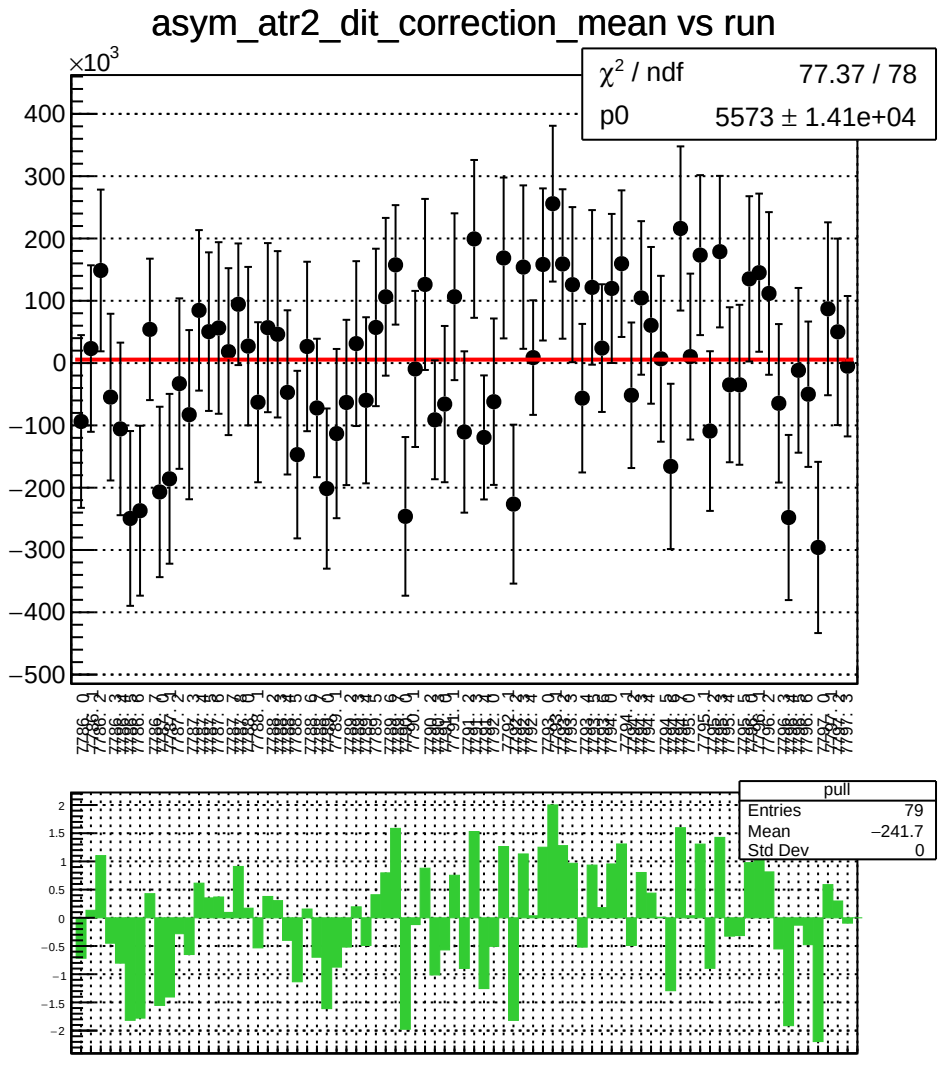

pull1D
Entries 79
Mean −0.017
Std Dev 0.9946

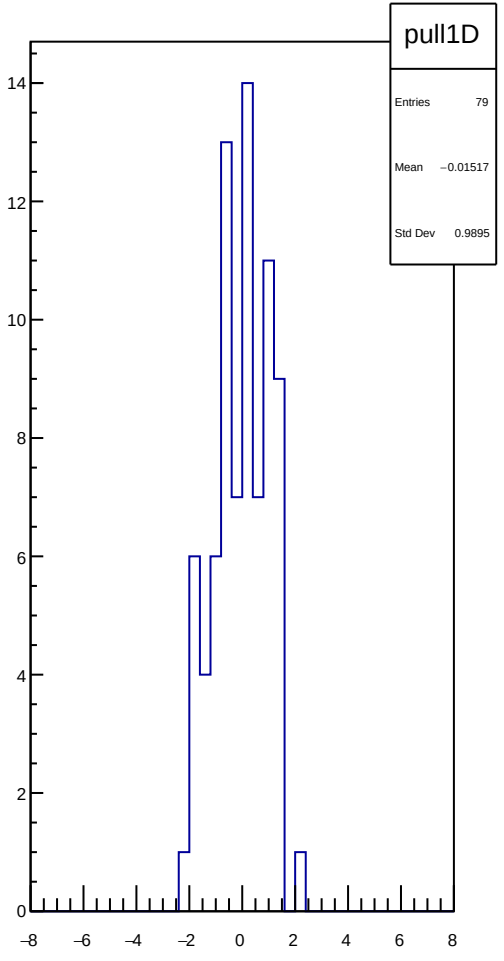

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 3506 / 78
p0 1.221e+04 ± 9.873
14000
13500
13000
12500
12000
11500
11000
10500

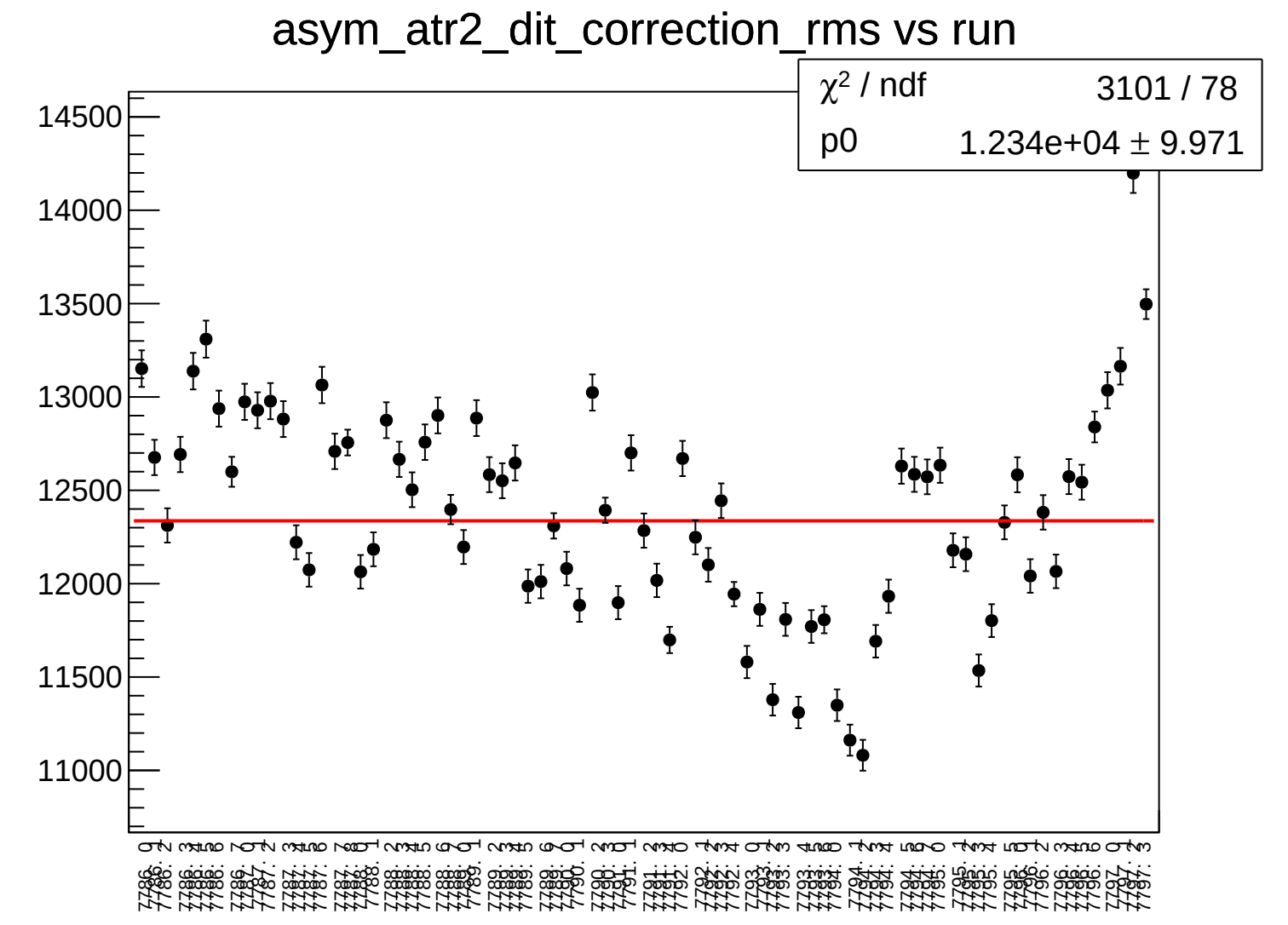

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 72.97 / 78
p0 −5463 ± 3261
100
50
0
−50
−100
pull
Entries 79
Mean −253
Std Dev 0
2
1
0
−1
−2

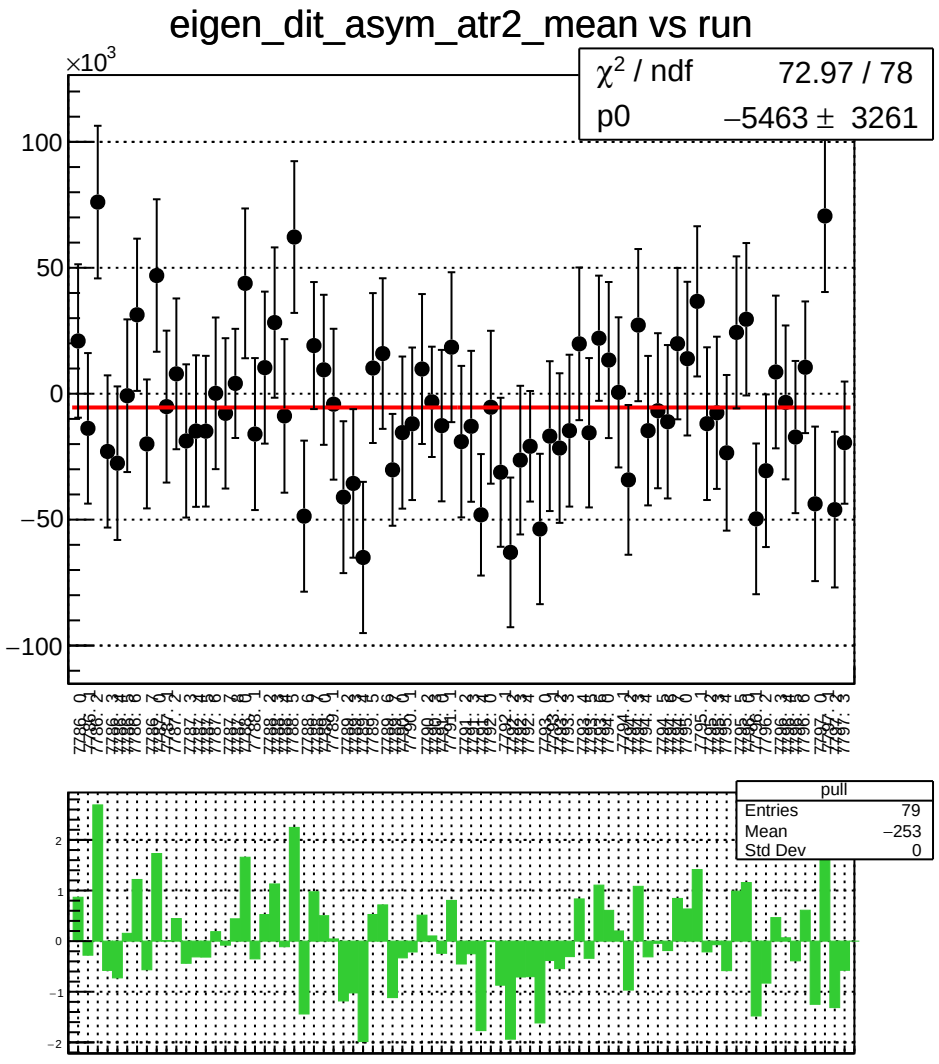

pull1D
Entries 79
Mean 0.008541
Std Dev 0.961
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

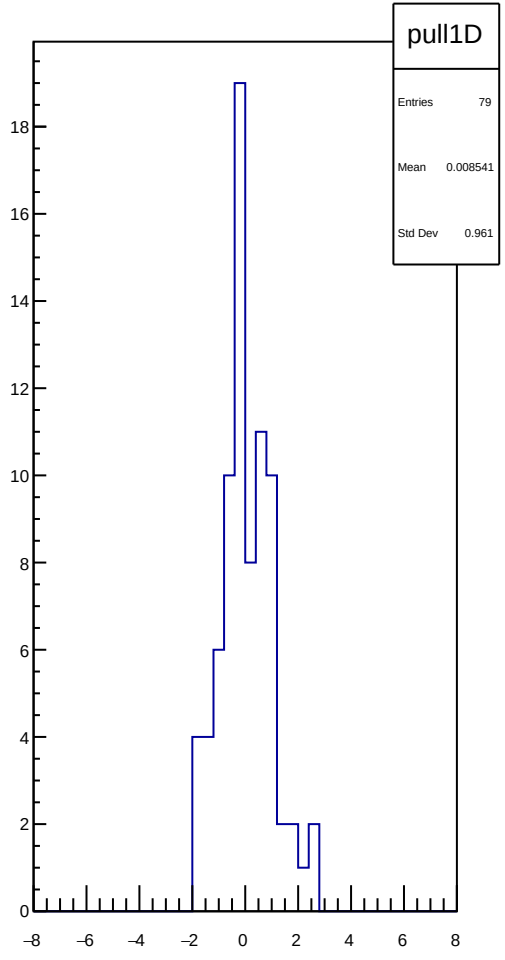

dit_asym_atr2_rms vs run
χ^2 / ndf 172.5 / 78
p0 2856 ± 2.306
2960
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760

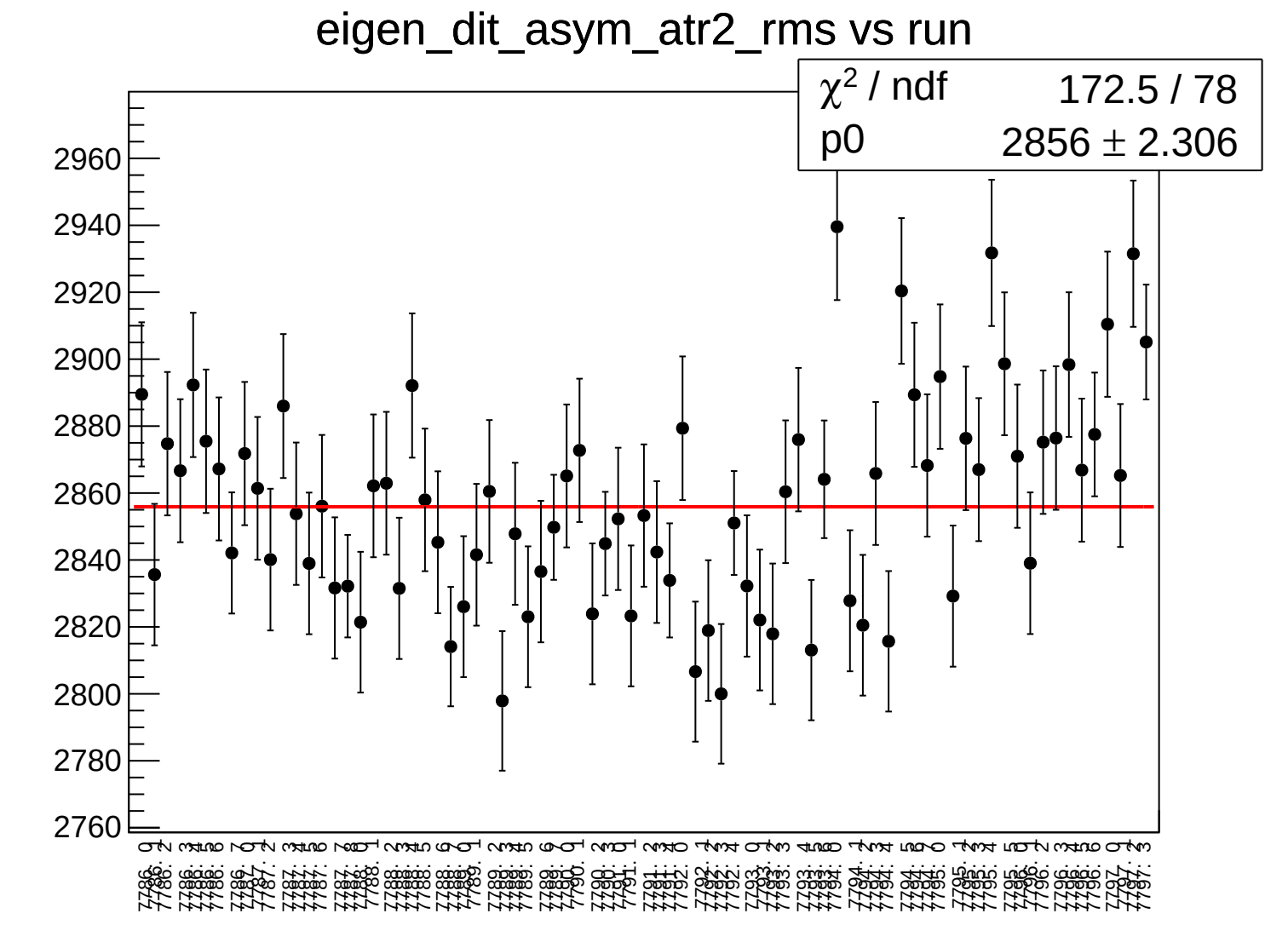

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 77.37 / 78
p0 5573 ± 1.41e+04
pull
Entries 79
Mean −241.7
Std Dev 0

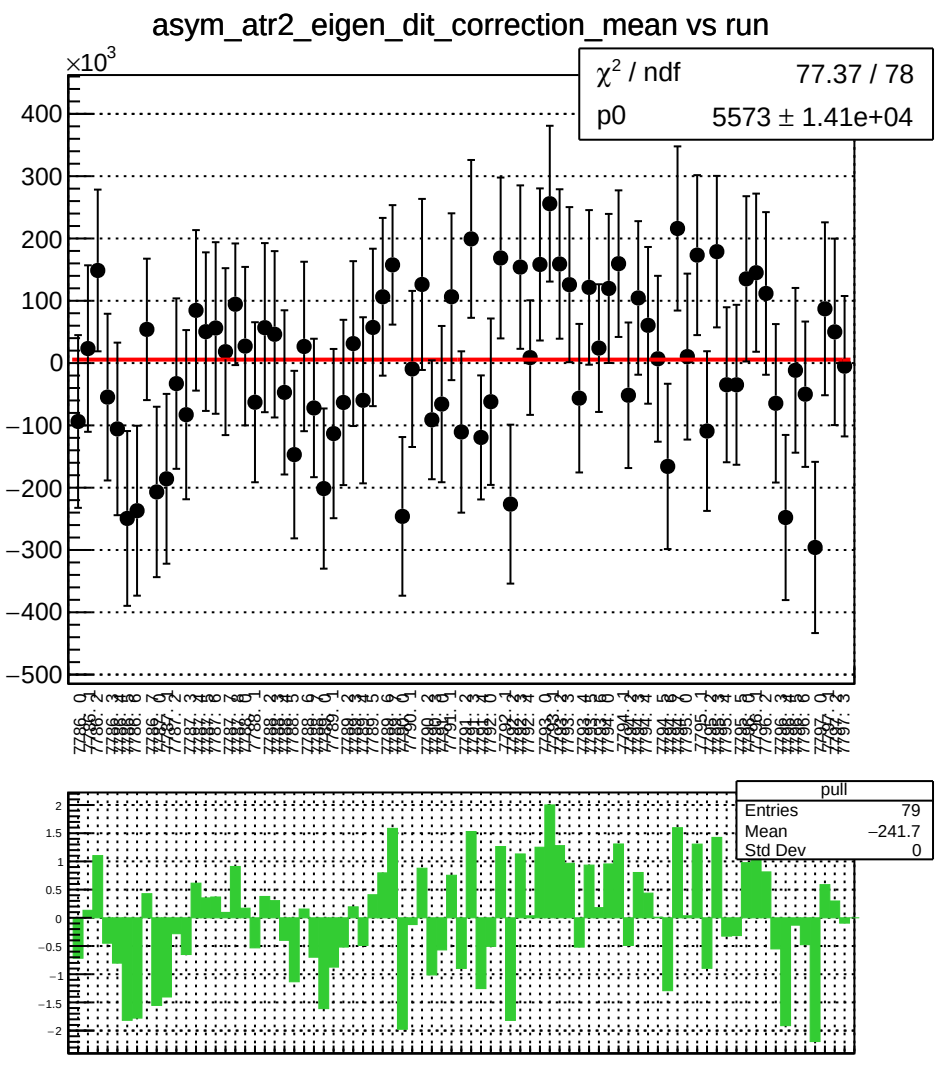

pull1D
Entries 79
Mean −0.01517
Std Dev 0.9895

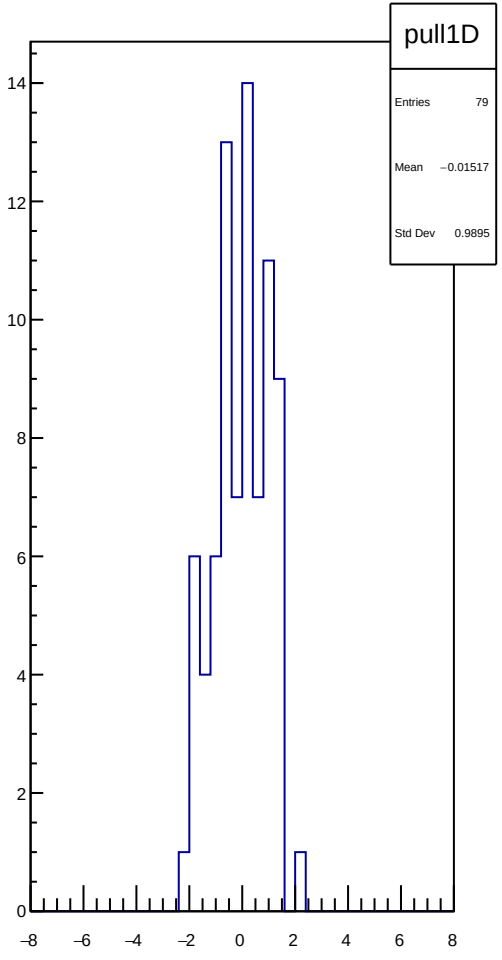

asym_atr2_dit_correction_rms vs run
χ^2 / ndf 3101 / 78
p0 1.234e+04 ± 9.971
14500
14000
13500
13000
12500
12000
11500
11000

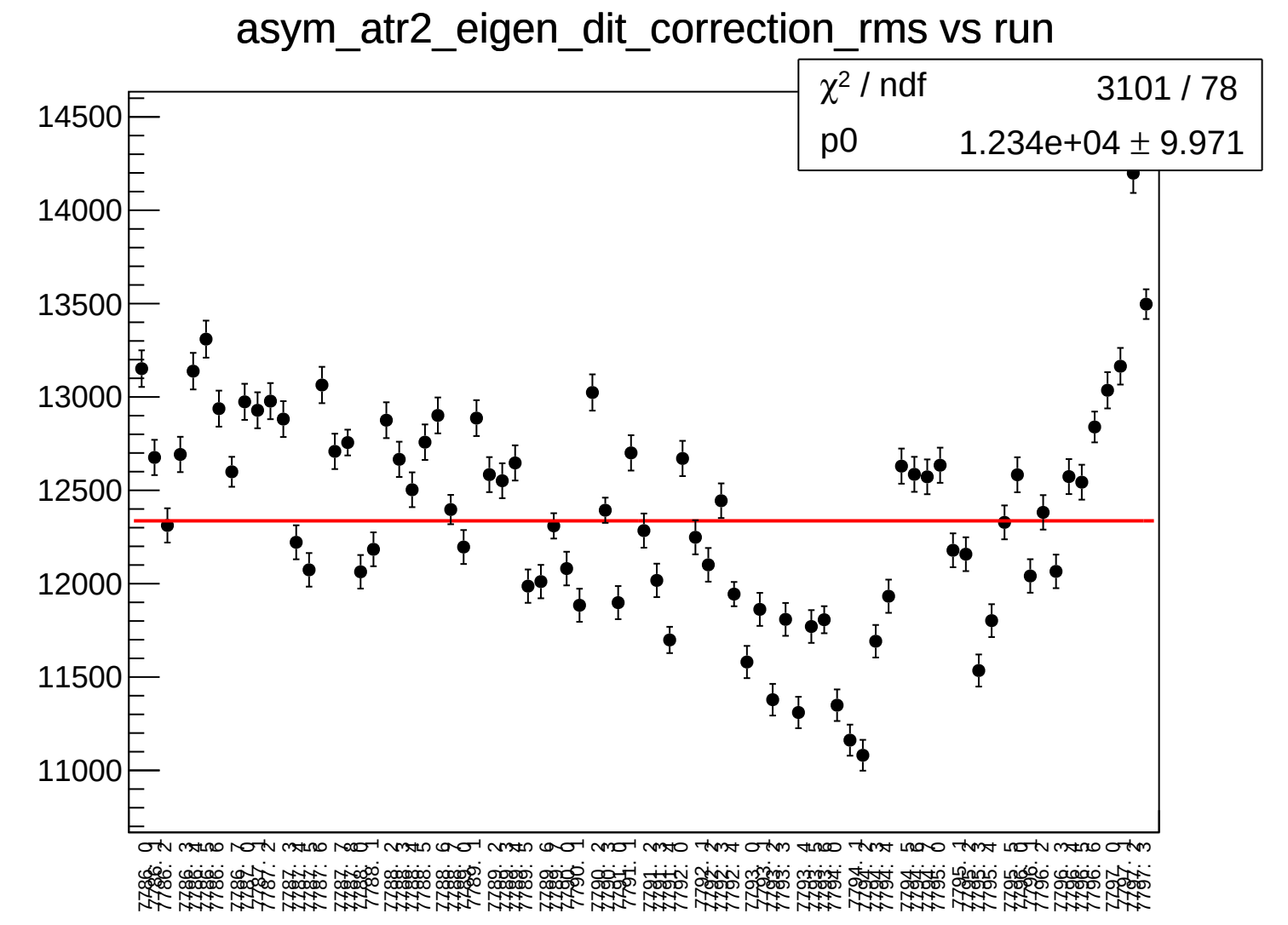

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 72.97 / 78
p0 −5463 ± 3261
100
50
0
−50
−100
pull
Entries 79
Mean −253
Std Dev 0
2
1
0
−1
−2

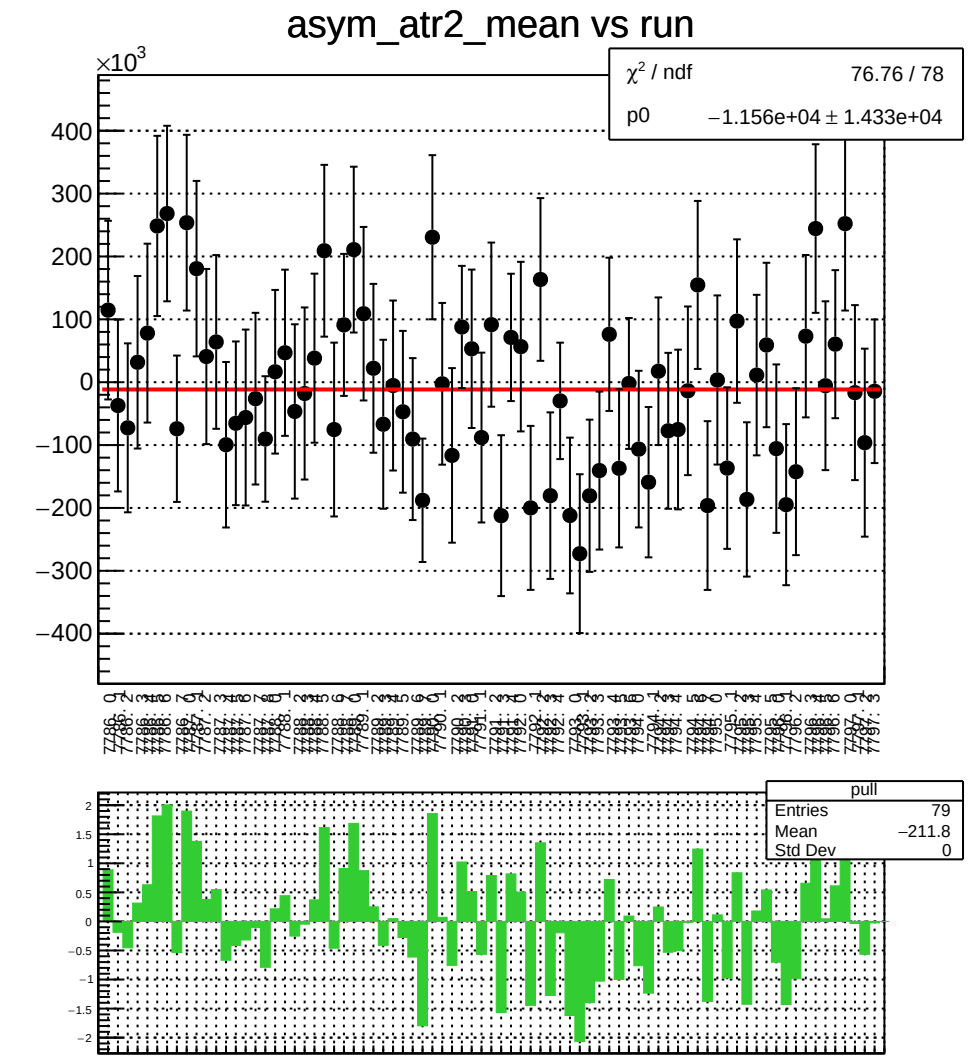

pull1D
Entries 79
Mean 0.008541
Std Dev 0.961
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

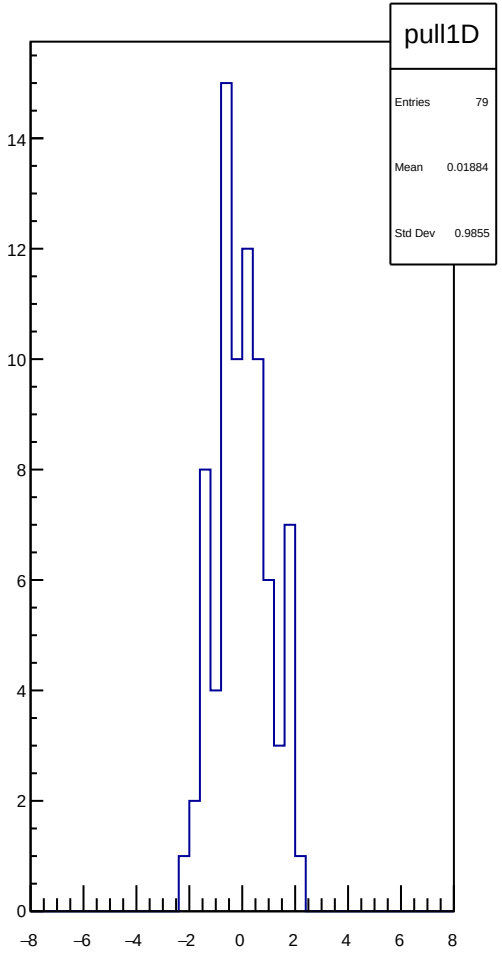

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 172.5 / 78
p0 2856 ± 2.306
2960
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760

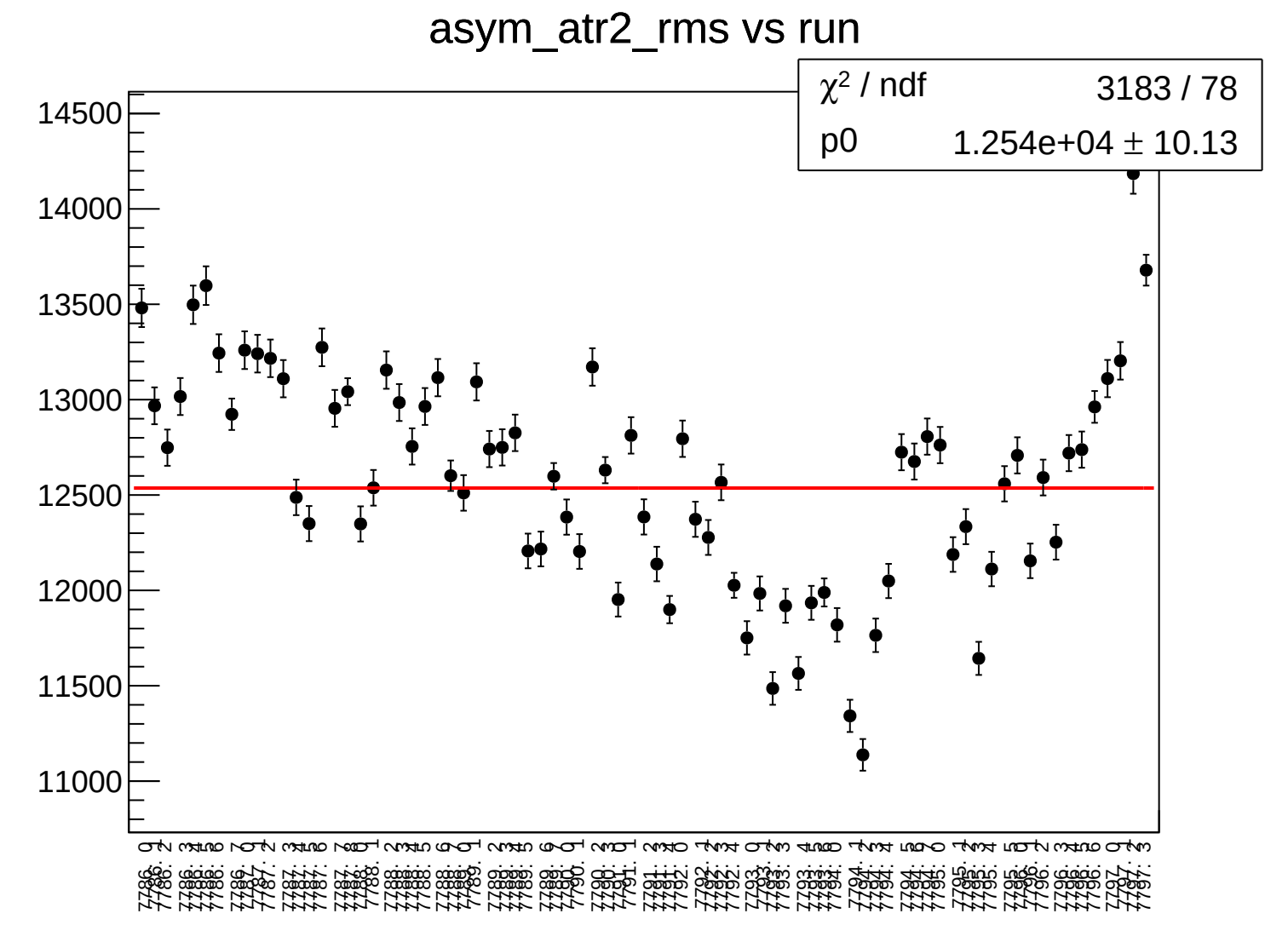

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.37 / 78
p0 5573 ± 1.41e+04
pull
Entries 79
Mean −241.7
Std Dev 0

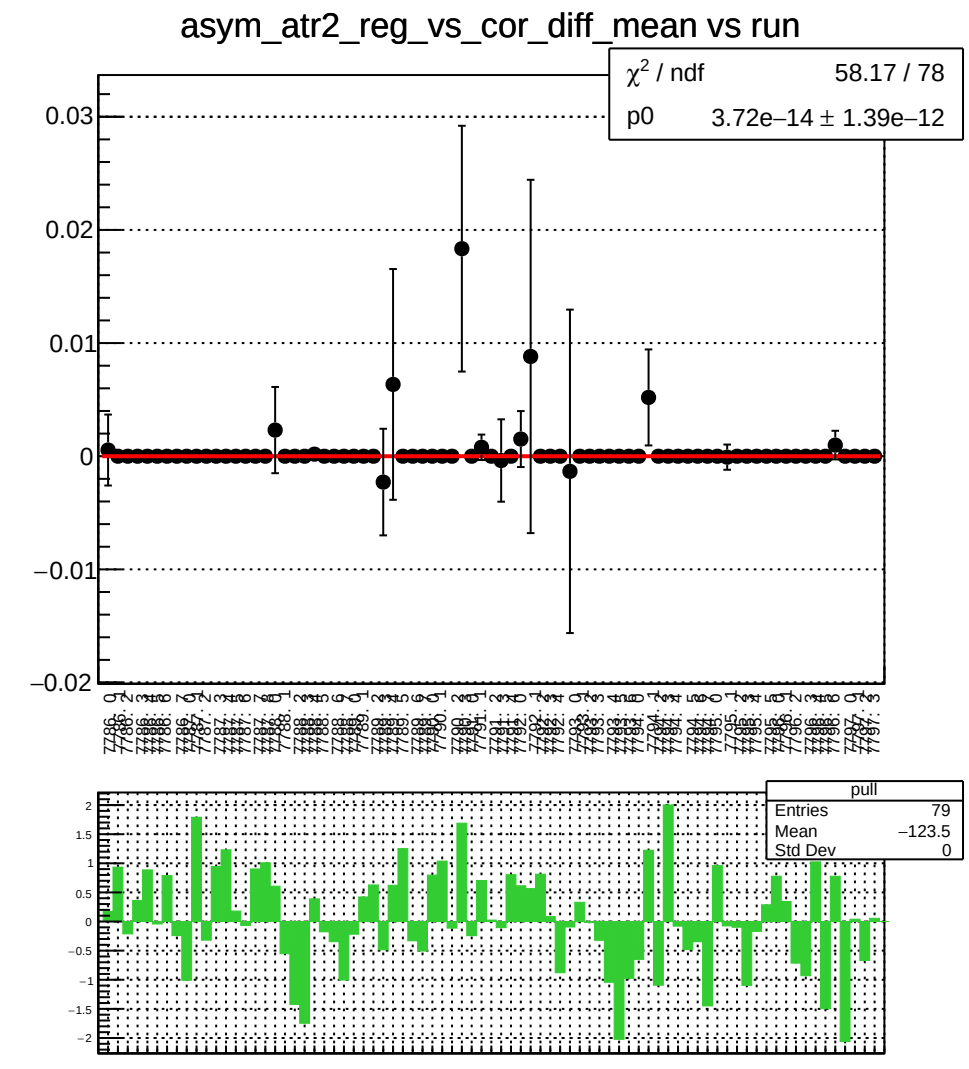

pull1D
Entries 79
Mean −0.01517
Std Dev 0.9895

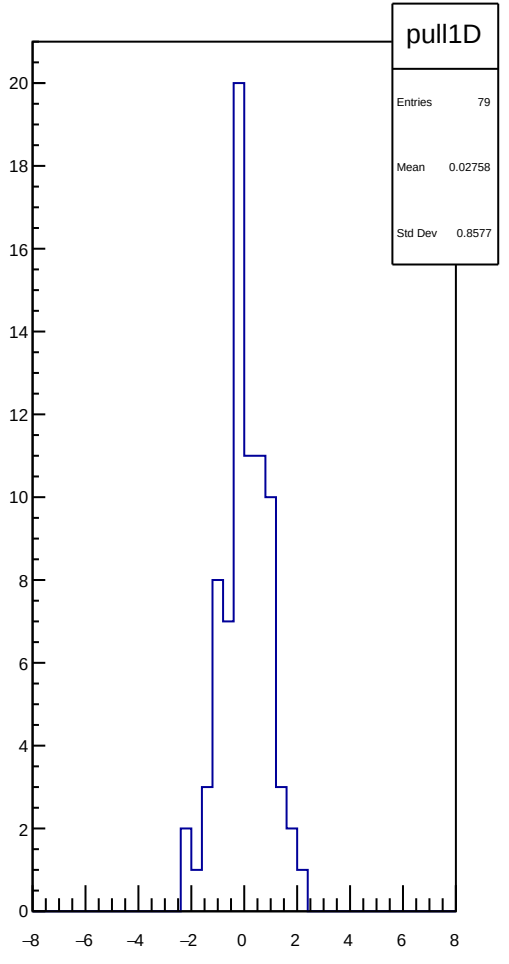

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 3101 / 78
p0 1.234e+04 ± 9.971
14500
14000
13500
13000
12500
12000
11500
11000

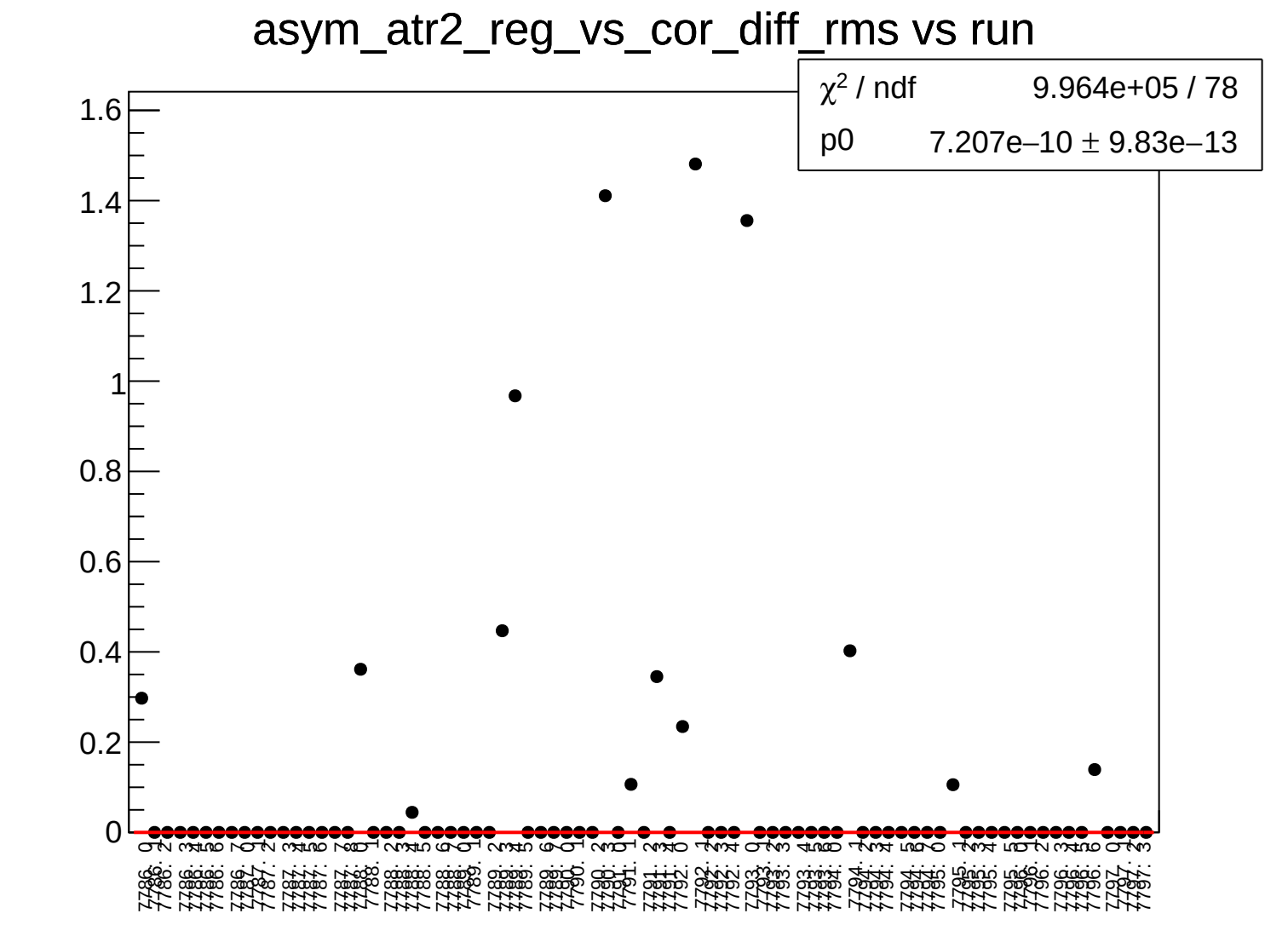

asym_atr2_mean vs run
×10^3
χ² / ndf 76.76 / 78
p0 −1.156e+04 ± 1.433e+04
pull
Entries 79
Mean −211.8
Std Dev 0

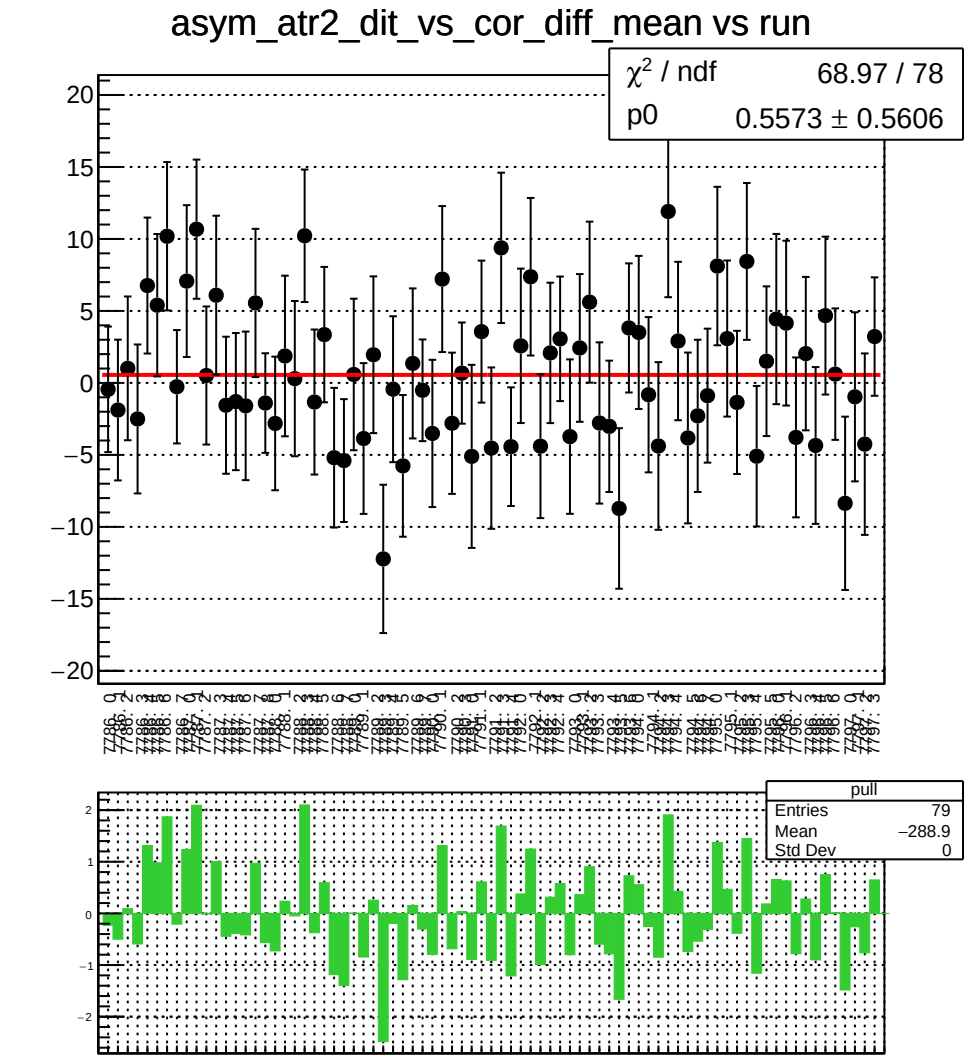

pull1D
Entries 79
Mean 0.01884
Std Dev 0.9855

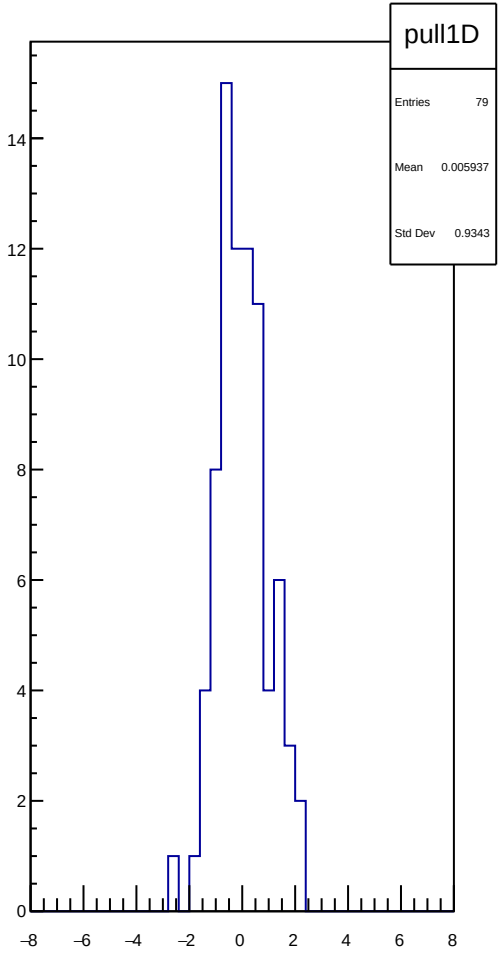

asym_atr2_rms vs run
χ² / ndf 3183 / 78
p0 1.254e+04 ± 10.13
14500
14000
13500
13000
12500
12000
11500
11000

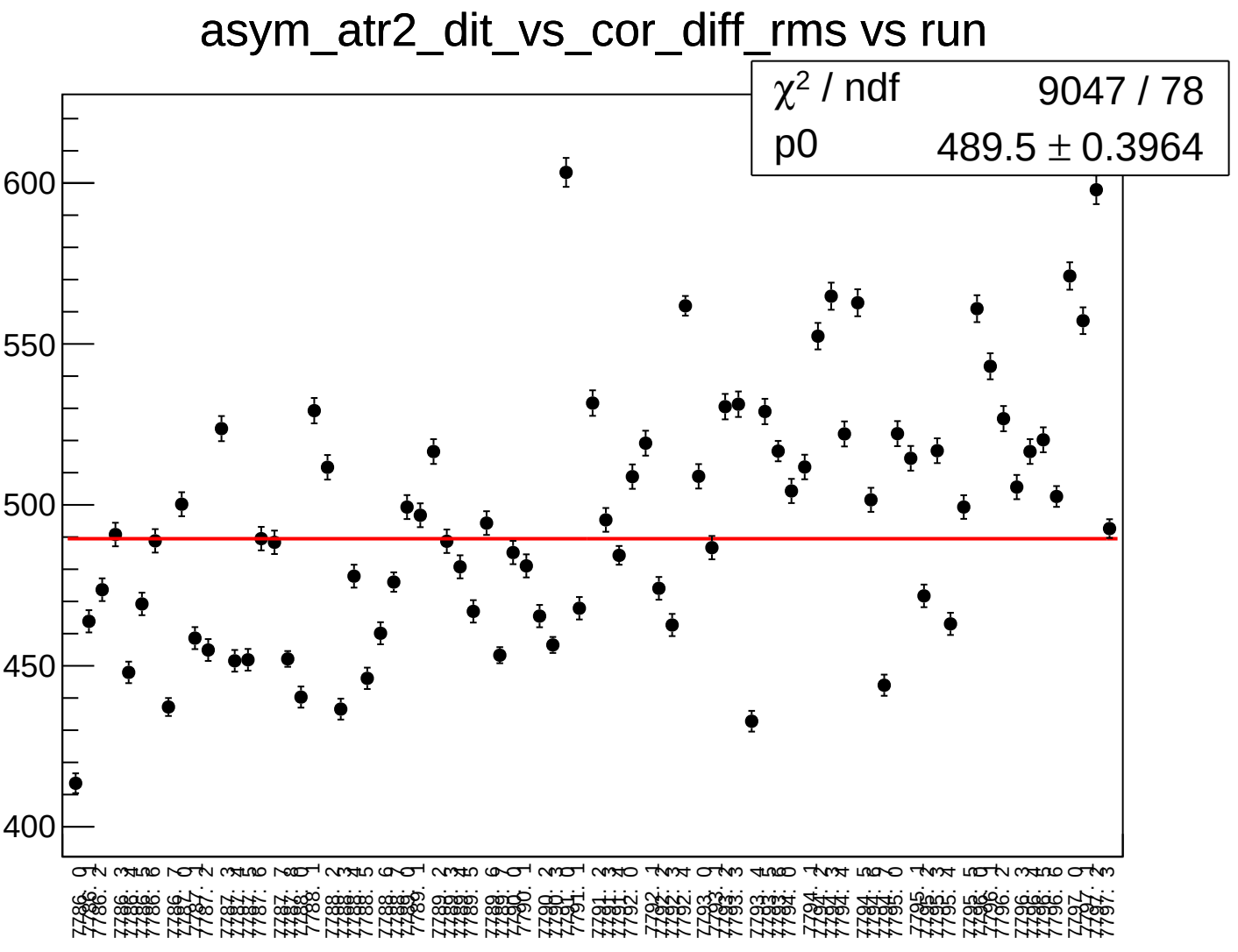

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 58.17 / 78
p0 3.72e−14 ± 1.39e−12
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 79
Mean −123.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

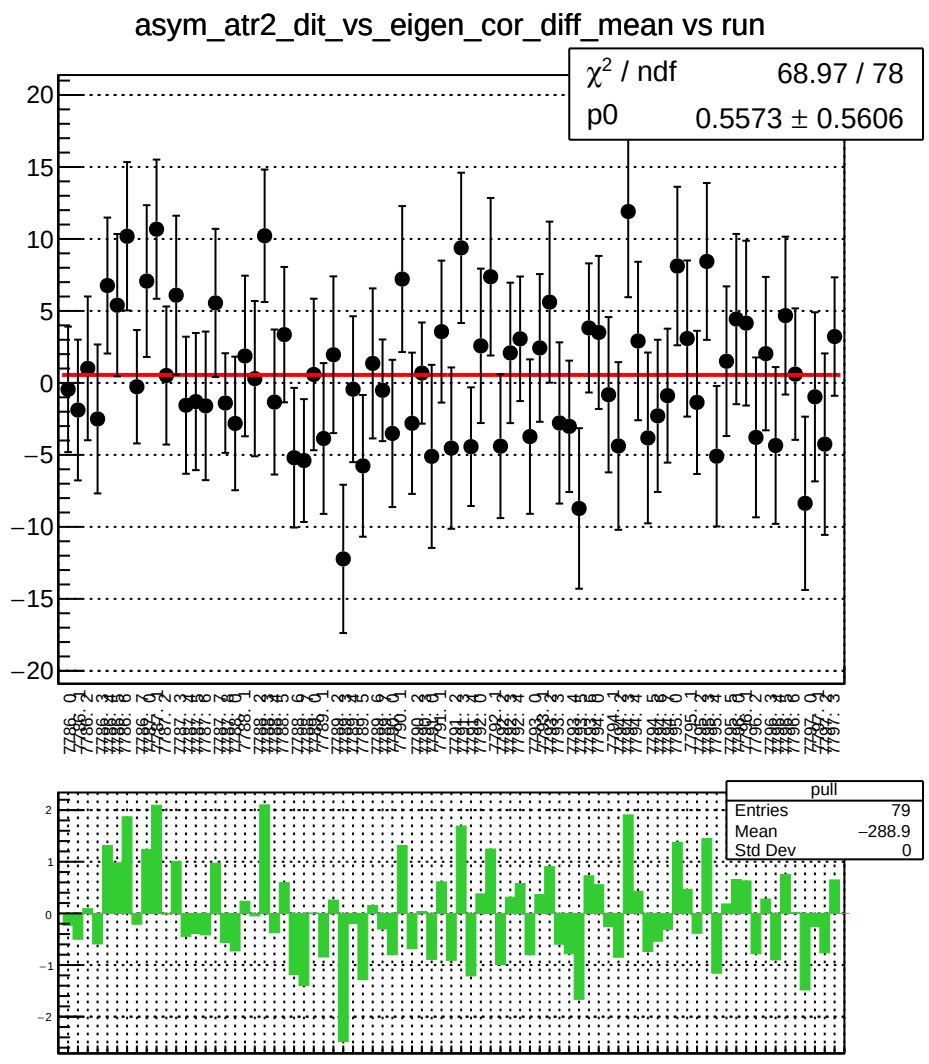

pull1D
Entries 79
Mean 0.02758
Std Dev 0.8577
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

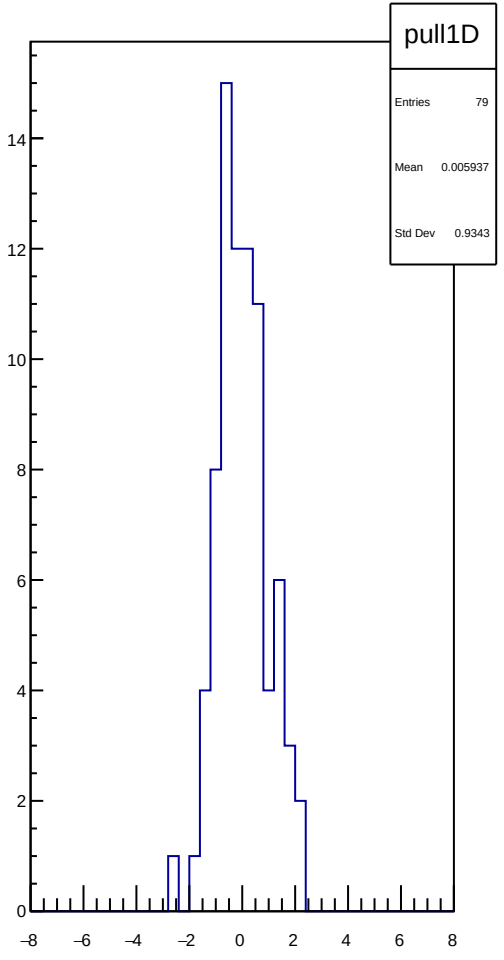

asym_atr2_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.964e+05 / 78
p0 7.207e−10 ± 9.83e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

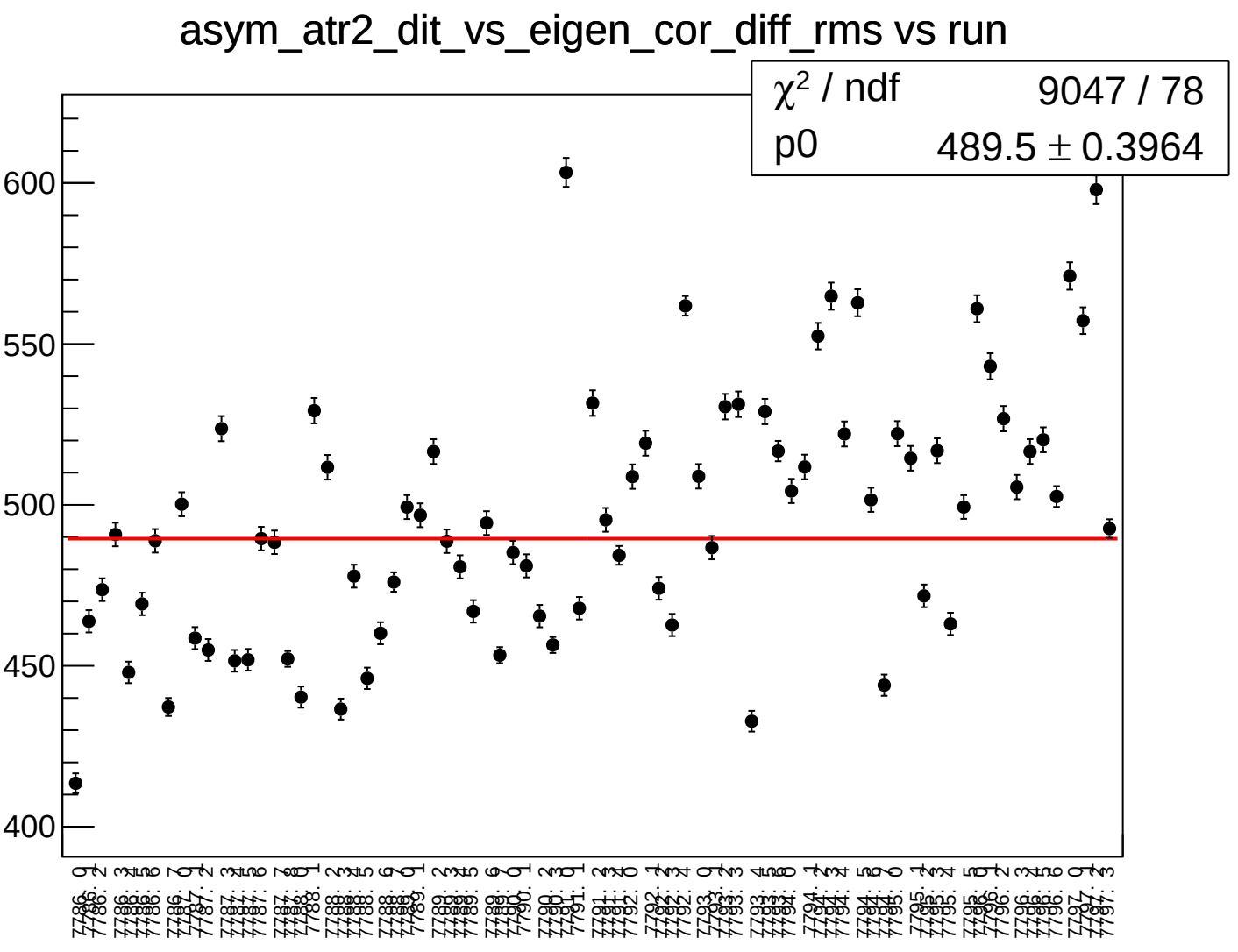

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 68.97 / 78
p0 0.5573 ± 0.5606
pull
Entries 79
Mean −288.9
Std Dev 0

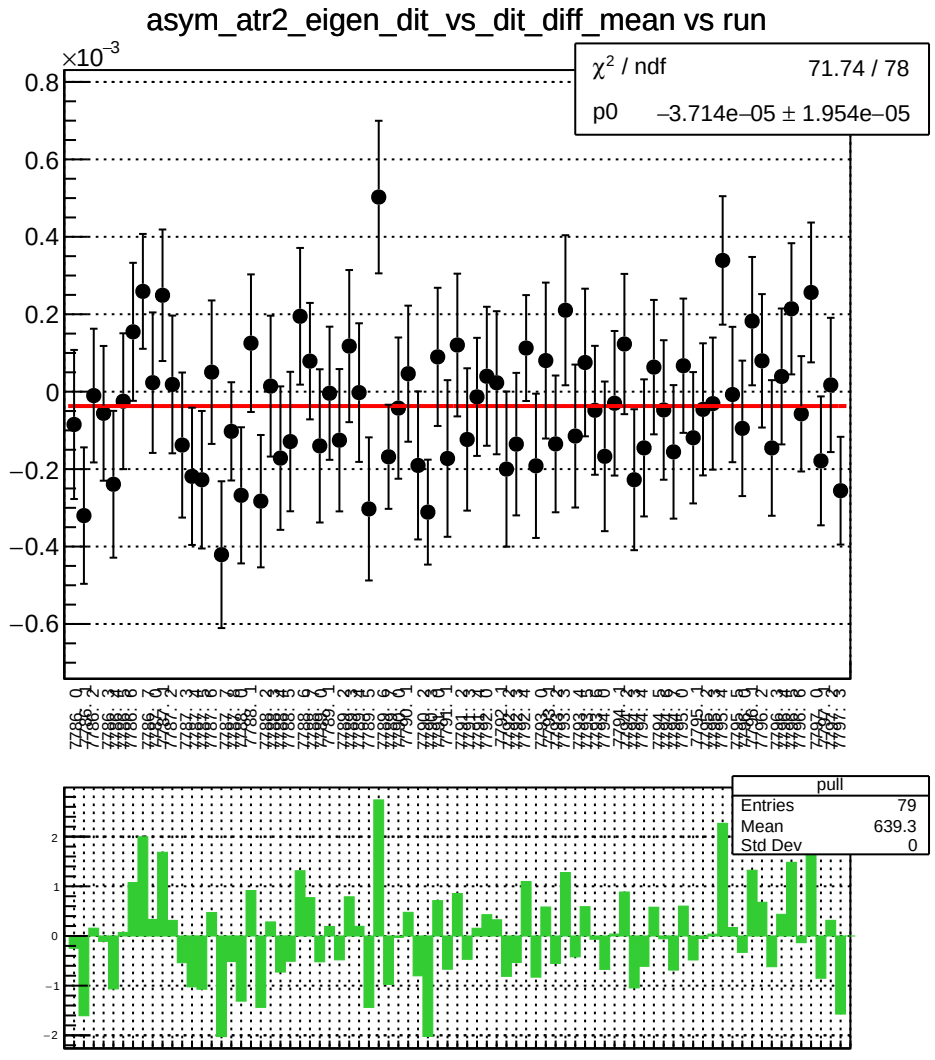

pull1D
Entries 79
Mean 0.005937
Std Dev 0.9343

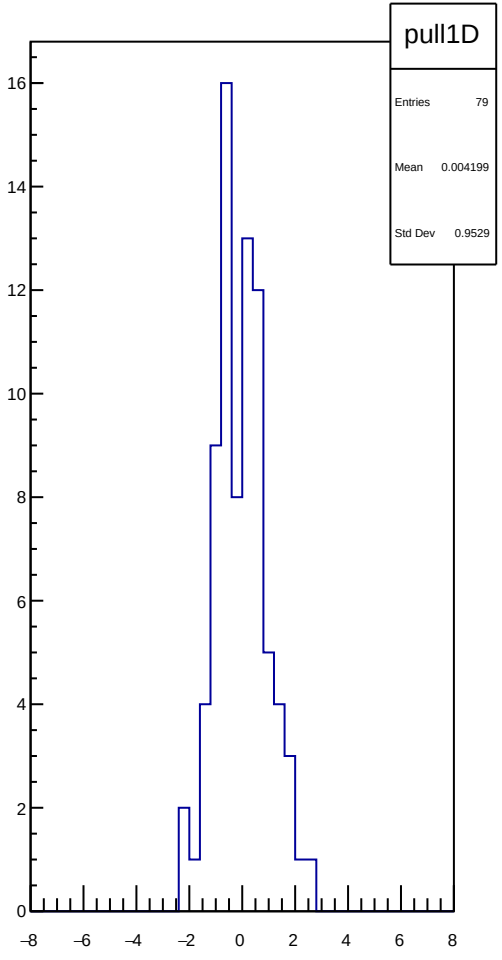

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 9047 / 78
p0 489.5 ± 0.3964
600
550
500
450
400

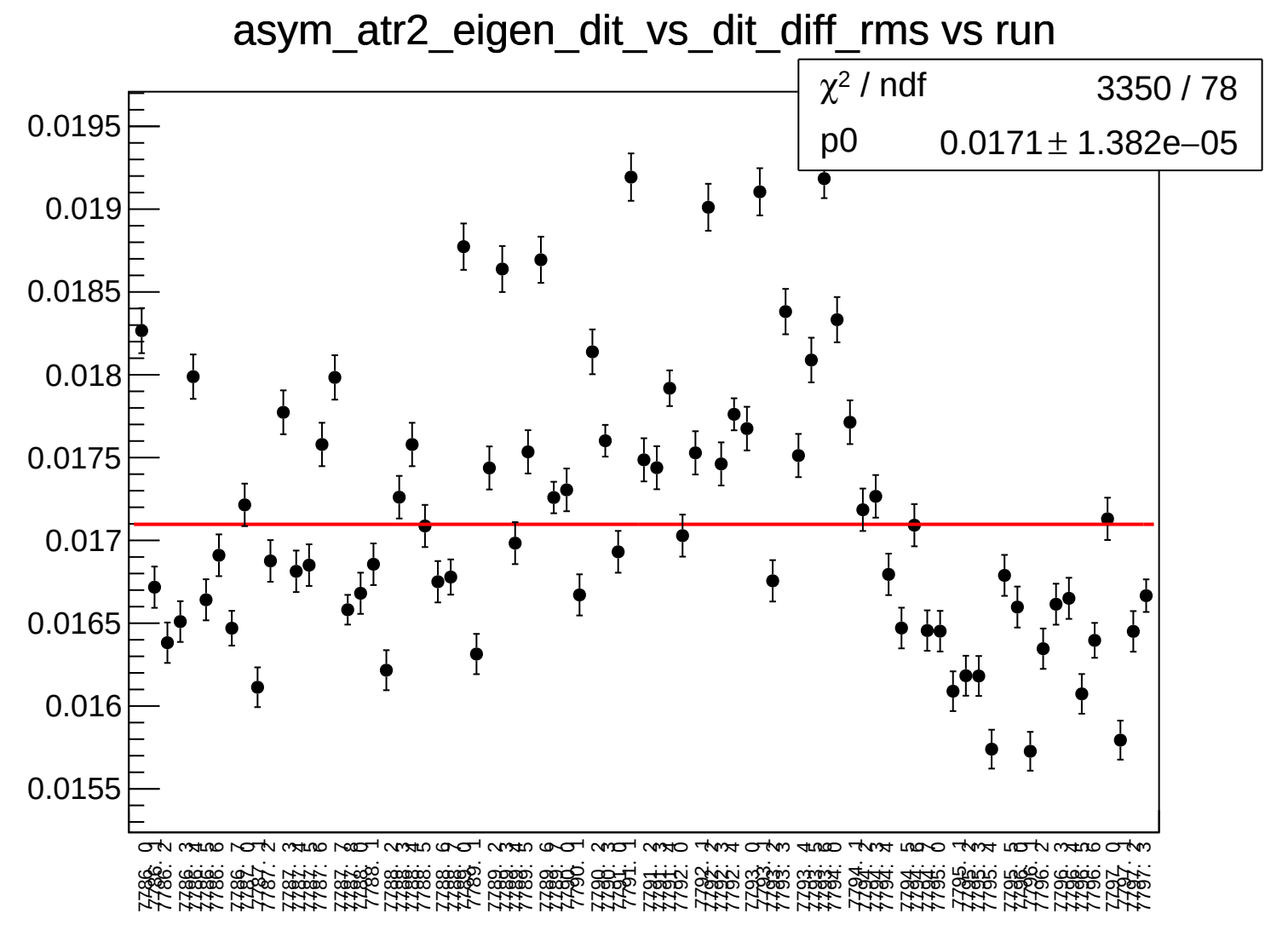

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.97 / 78
p0 0.5573 ± 0.5606
pull
Entries 79
Mean −288.9
Std Dev 0

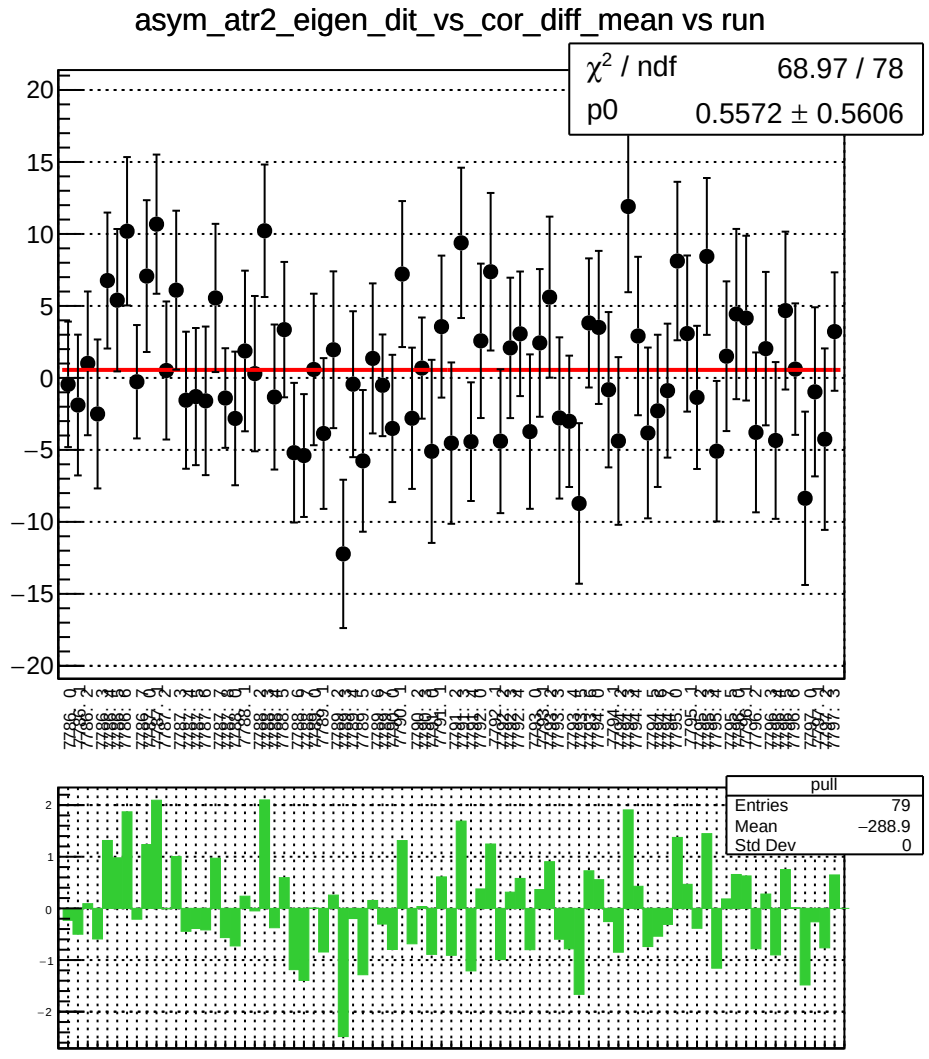

pull1D
Entries 79
Mean 0.005937
Std Dev 0.9343

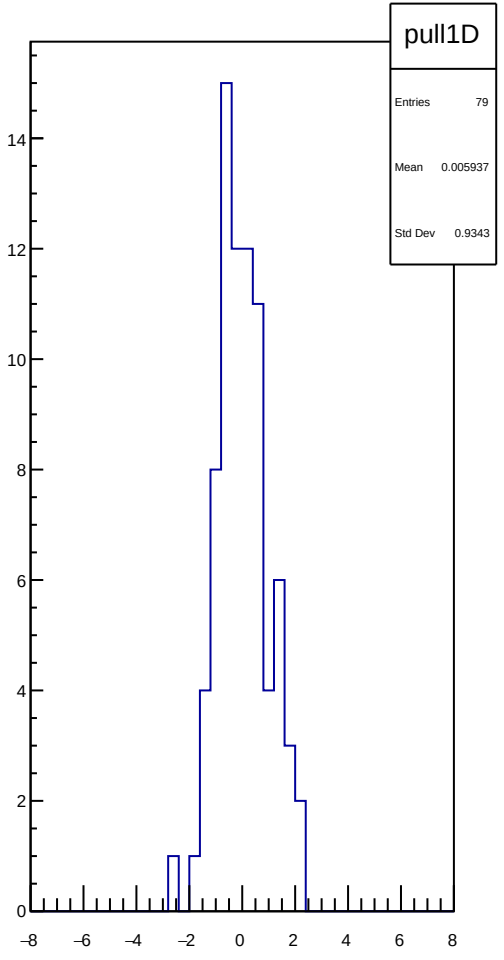

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9047 / 78
p0 489.5 ± 0.3964
600
550
500
450
400

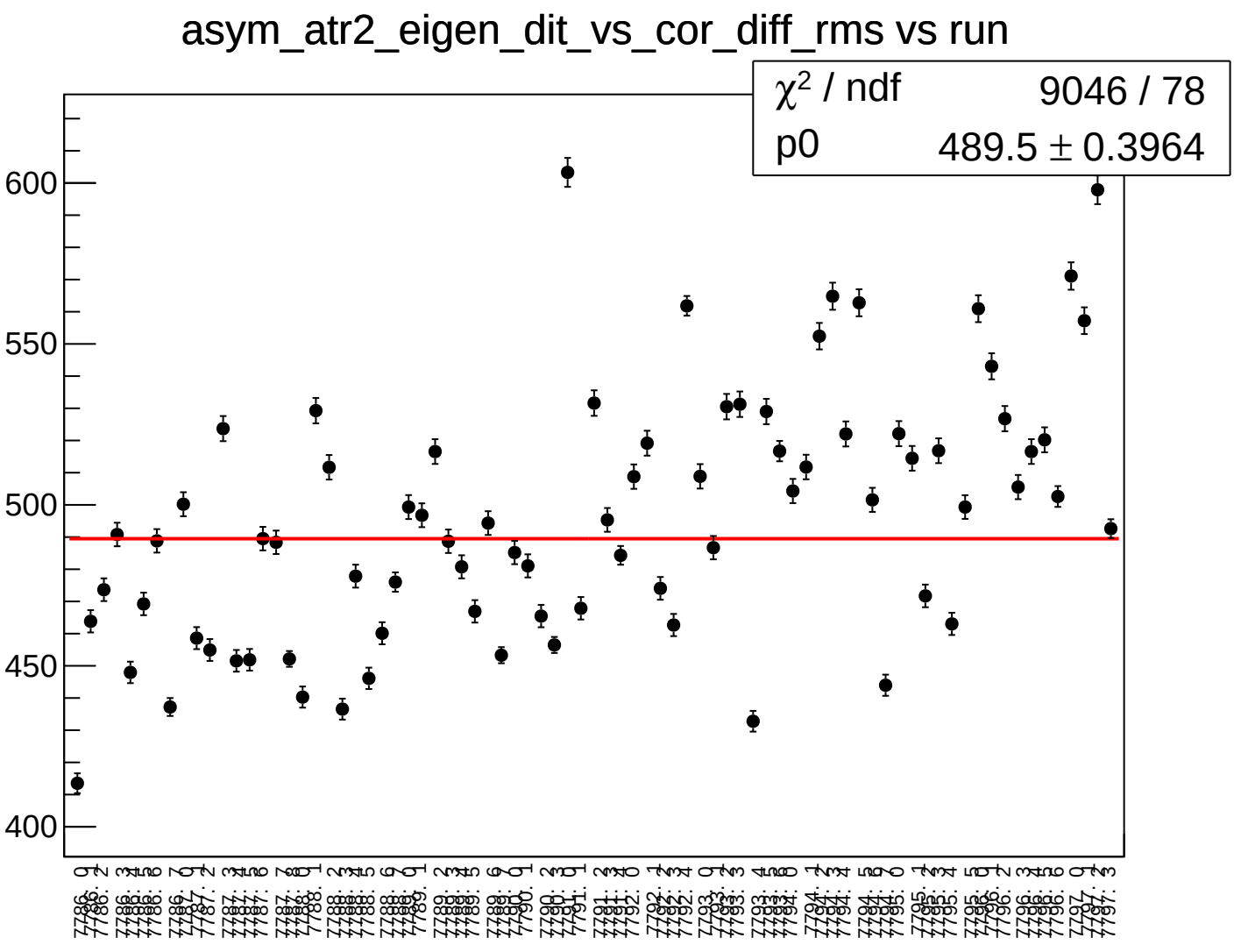

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.74 / 78
p0 −3.714e−05 ± 1.954e−05
pull
Entries 79
Mean 639.3
Std Dev 0

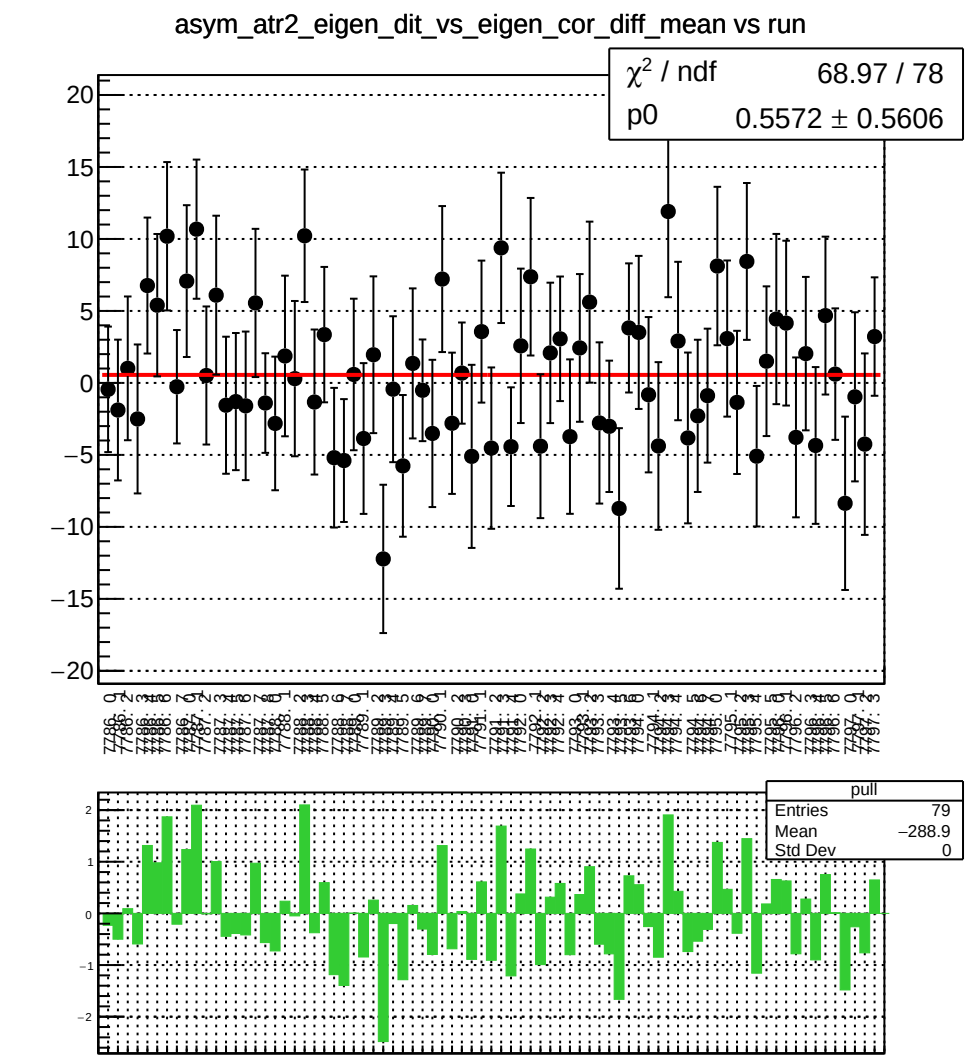

pull1D
Entries 79
Mean 0.004199
Std Dev 0.9529

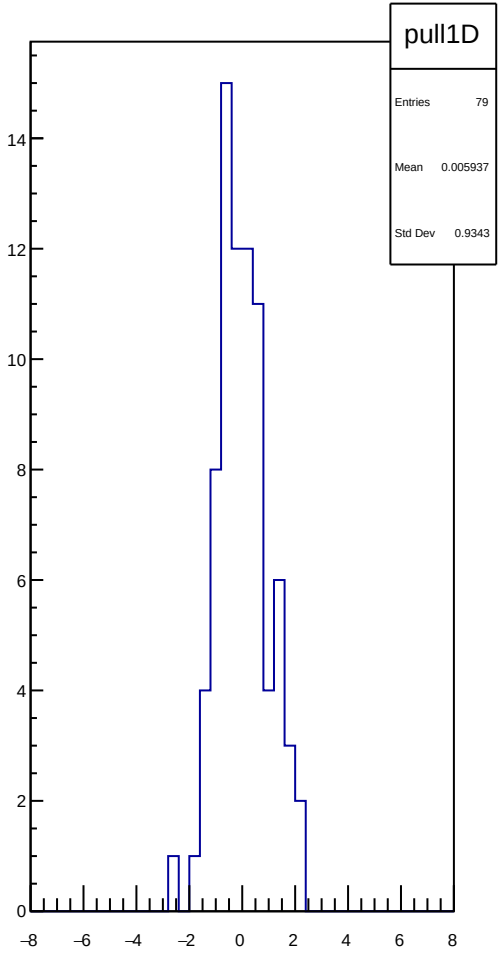

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3350 / 78
p0 0.0171 ± 1.382e−05
0.0195
0.019
0.0185
0.018
0.0175
0.017
0.0165
0.016
0.0155

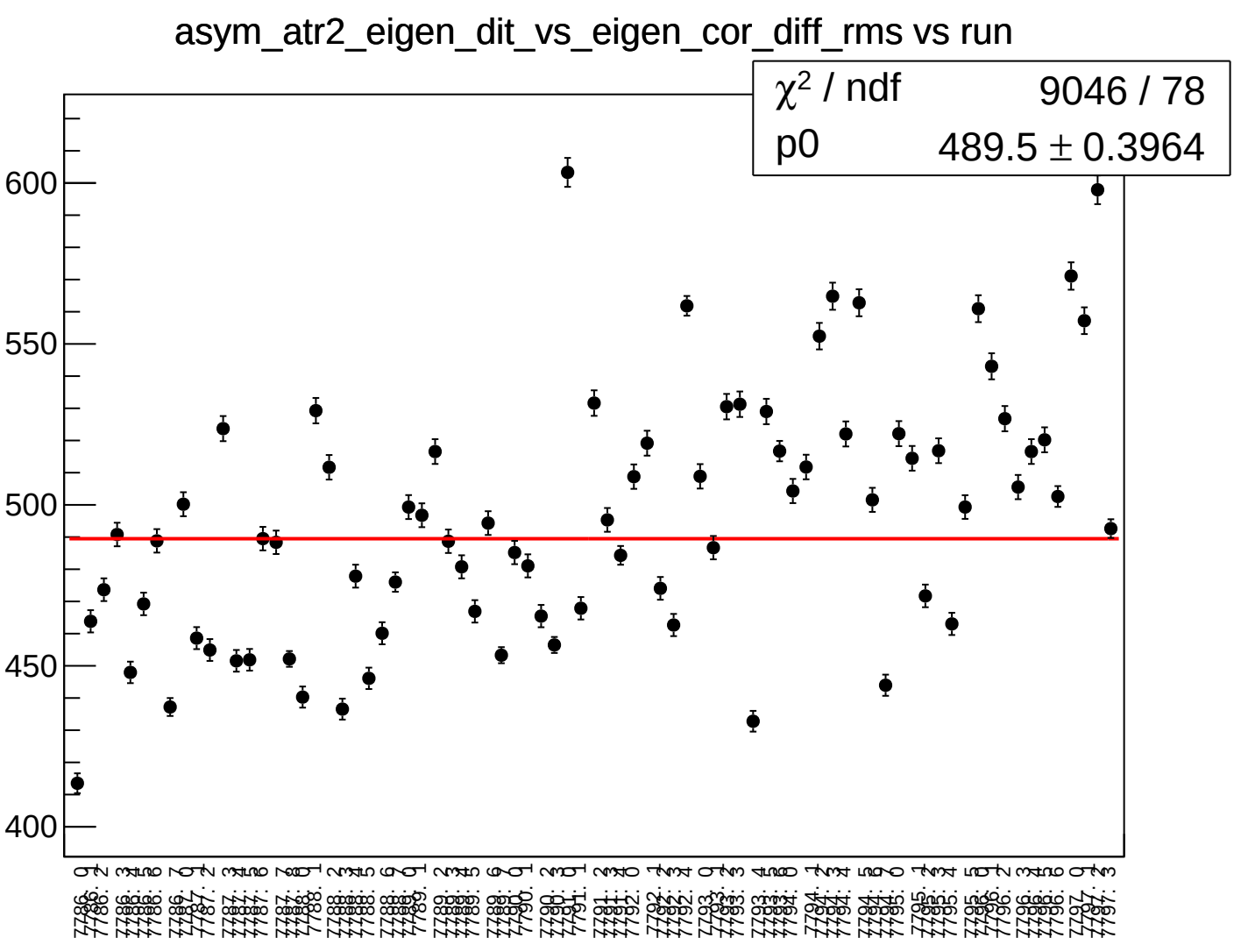

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.97 / 78
p0 0.5572 ± 0.5606
pull
Entries 79
Mean −288.9
Std Dev 0

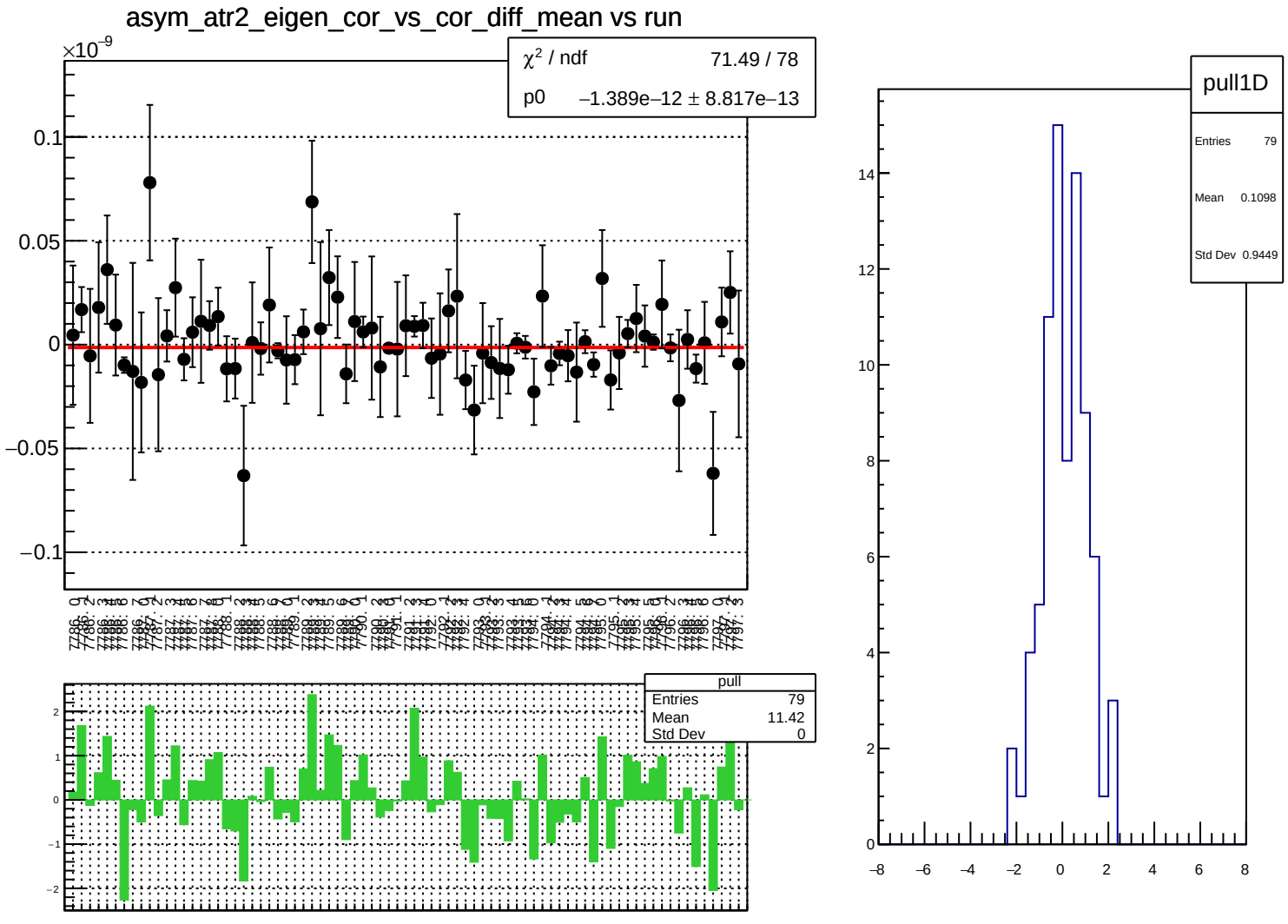

pull1D
Entries 79
Mean 0.005937
Std Dev 0.9343

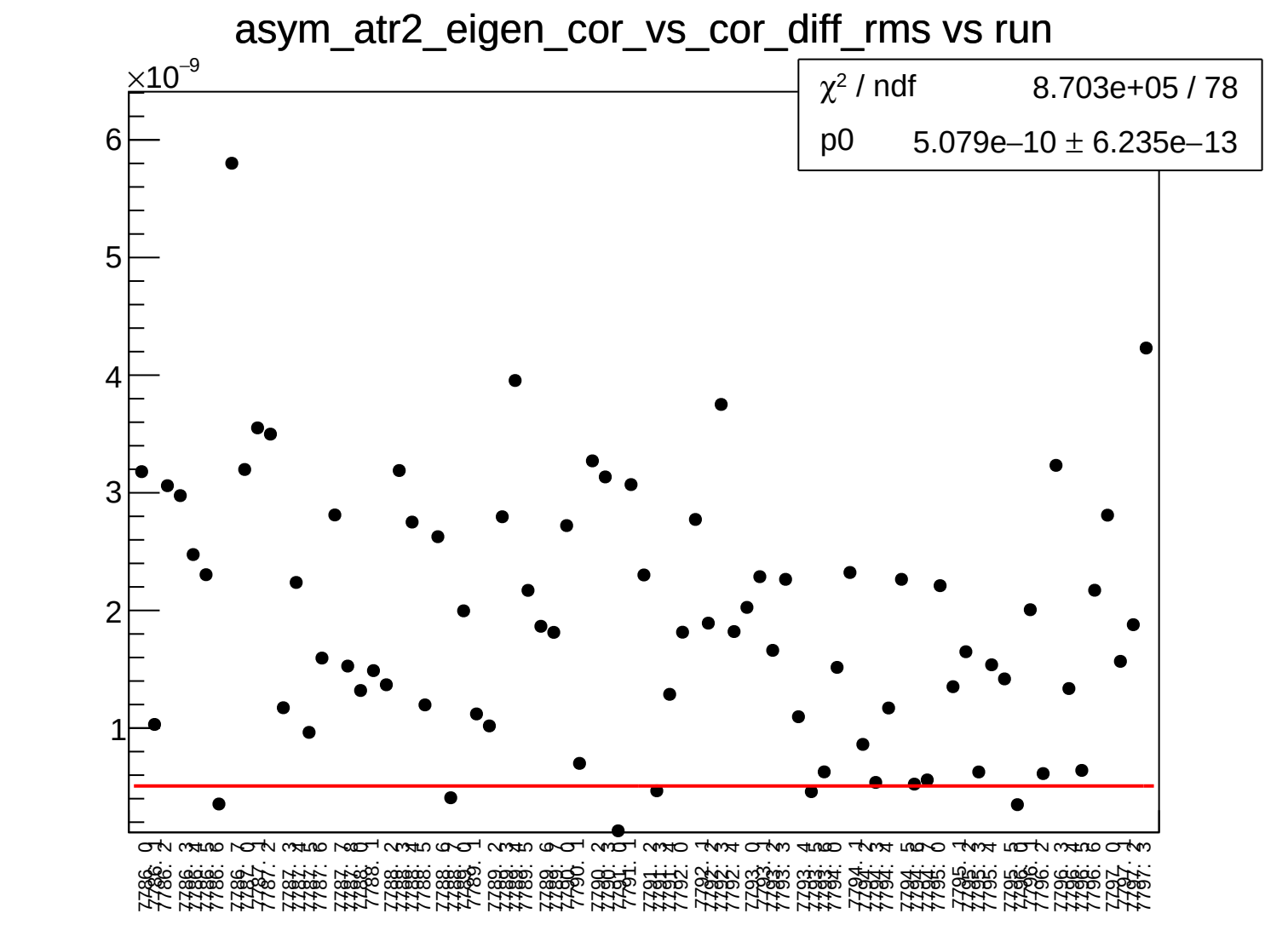

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9046 / 78
p0 489.5 ± 0.3964
600
550
500
450
400

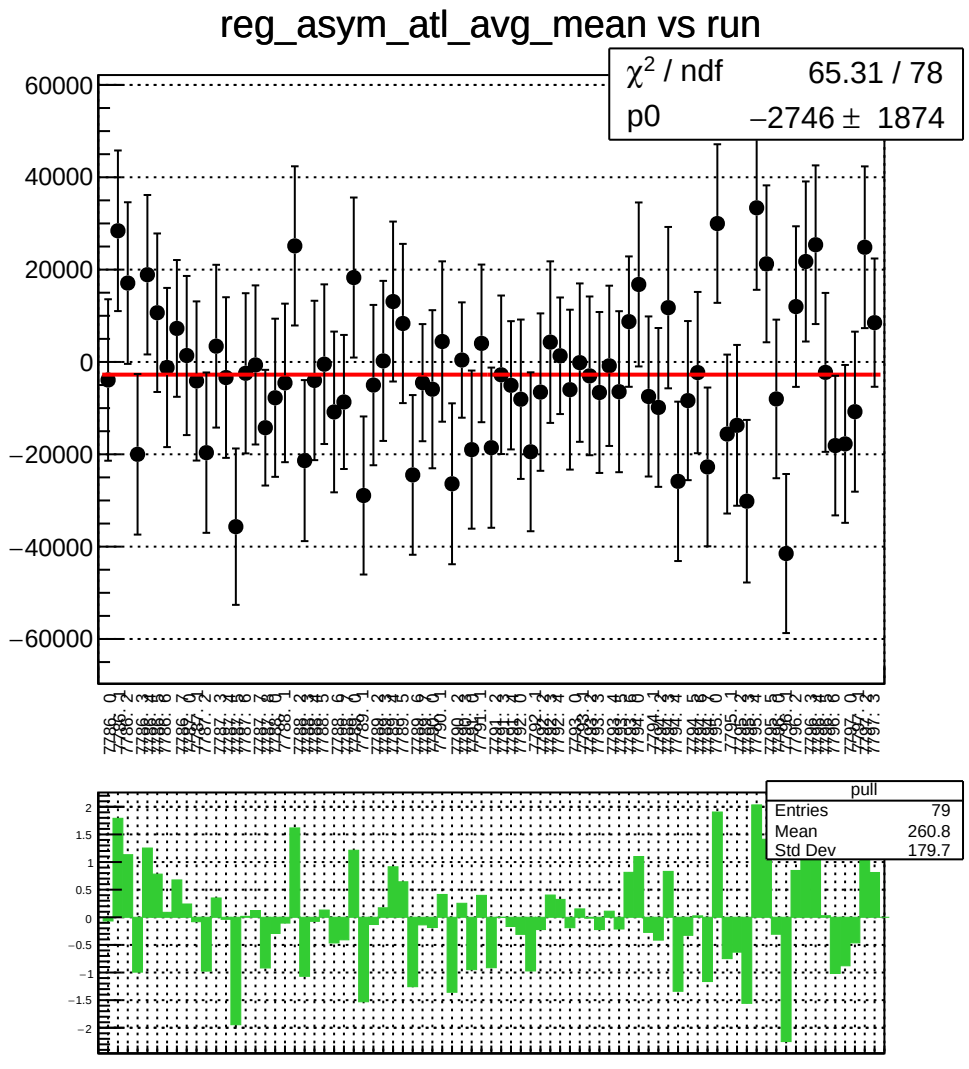

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.97 / 78
p0 0.5572 ± 0.5606
pull
Entries 79
Mean −288.9
Std Dev 0

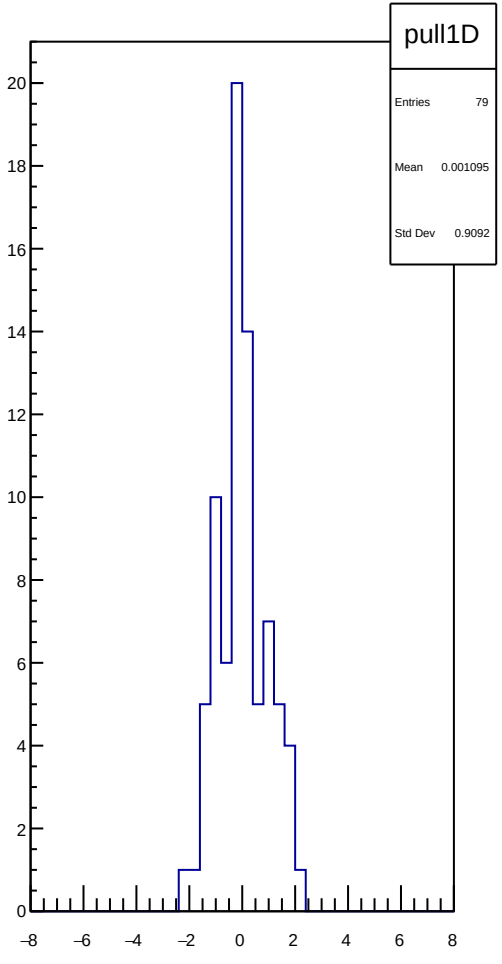

pull1D
Entries 79
Mean 0.005937
Std Dev 0.9343

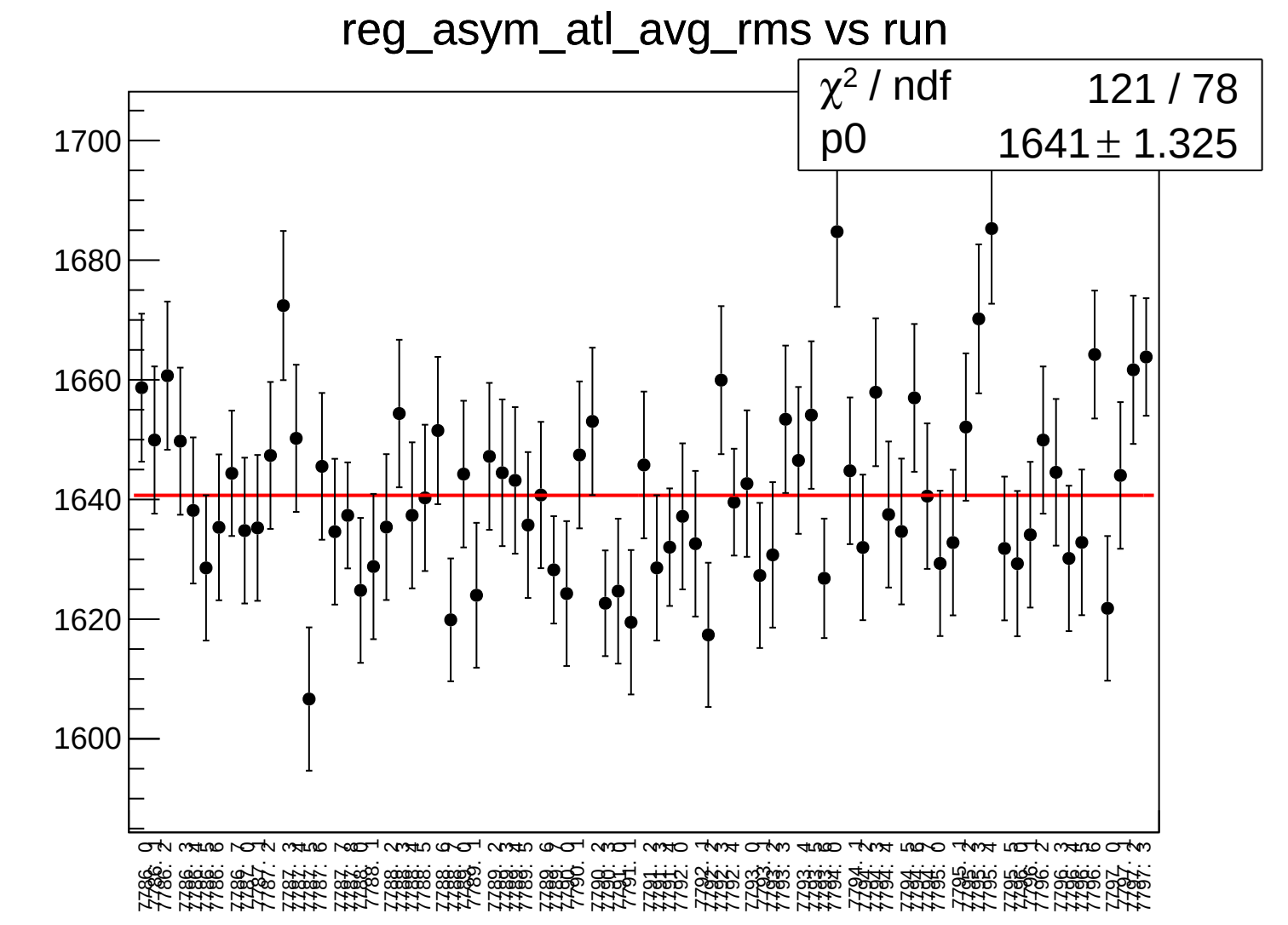

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9046 / 78
p0 489.5 ± 0.3964
600
550
500
450
400

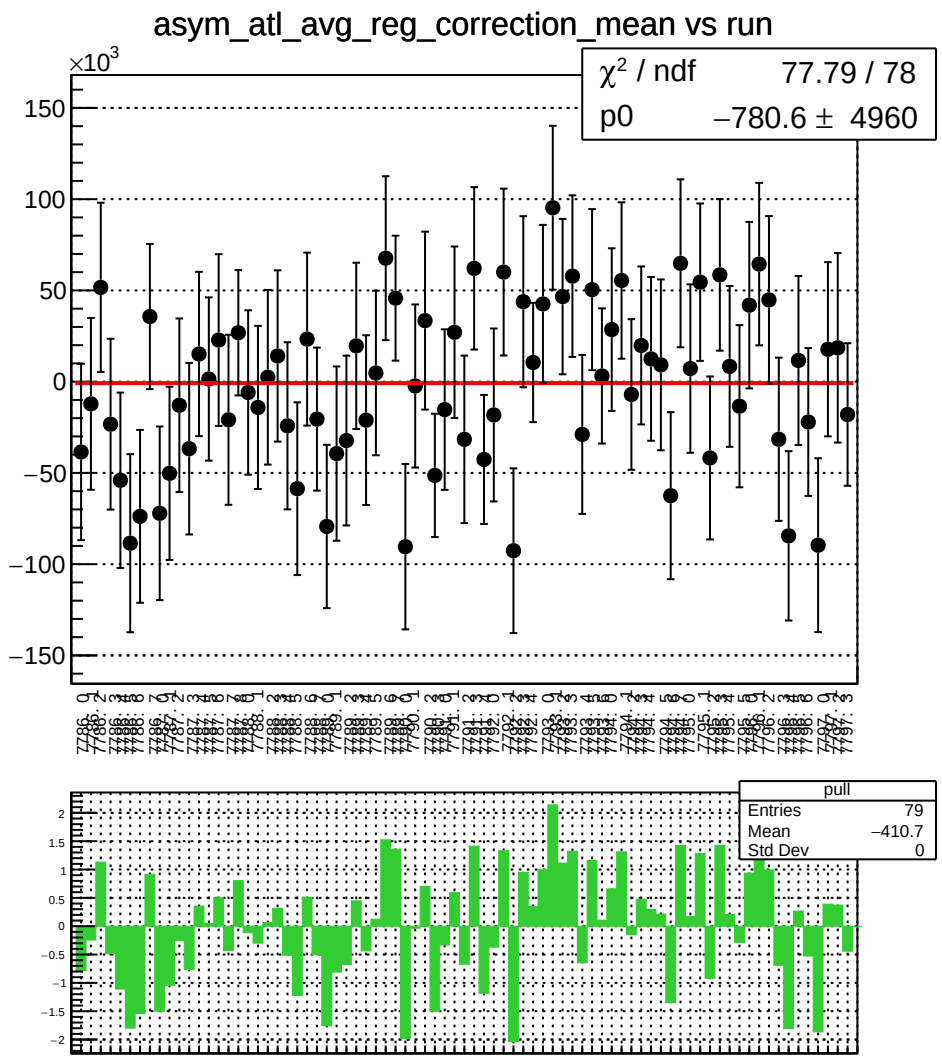

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 71.49 / 78
p0 −1.389e−12 ± 8.817e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 79
Mean 11.42
Std Dev 0
pull1D
Entries 79
Mean 0.1098
Std Dev 0.9449
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

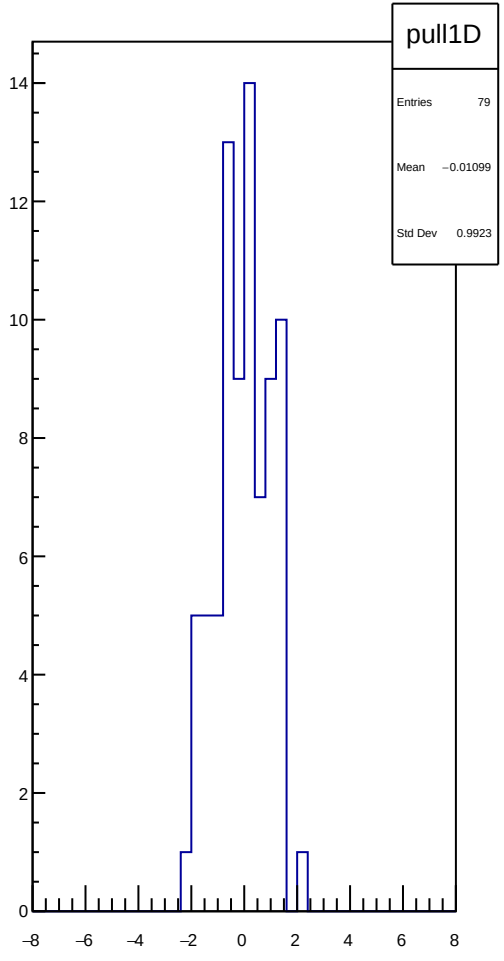

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.703e+05 / 78
p0 5.079e−10 ± 6.235e−13
6
5
4
3
2
1

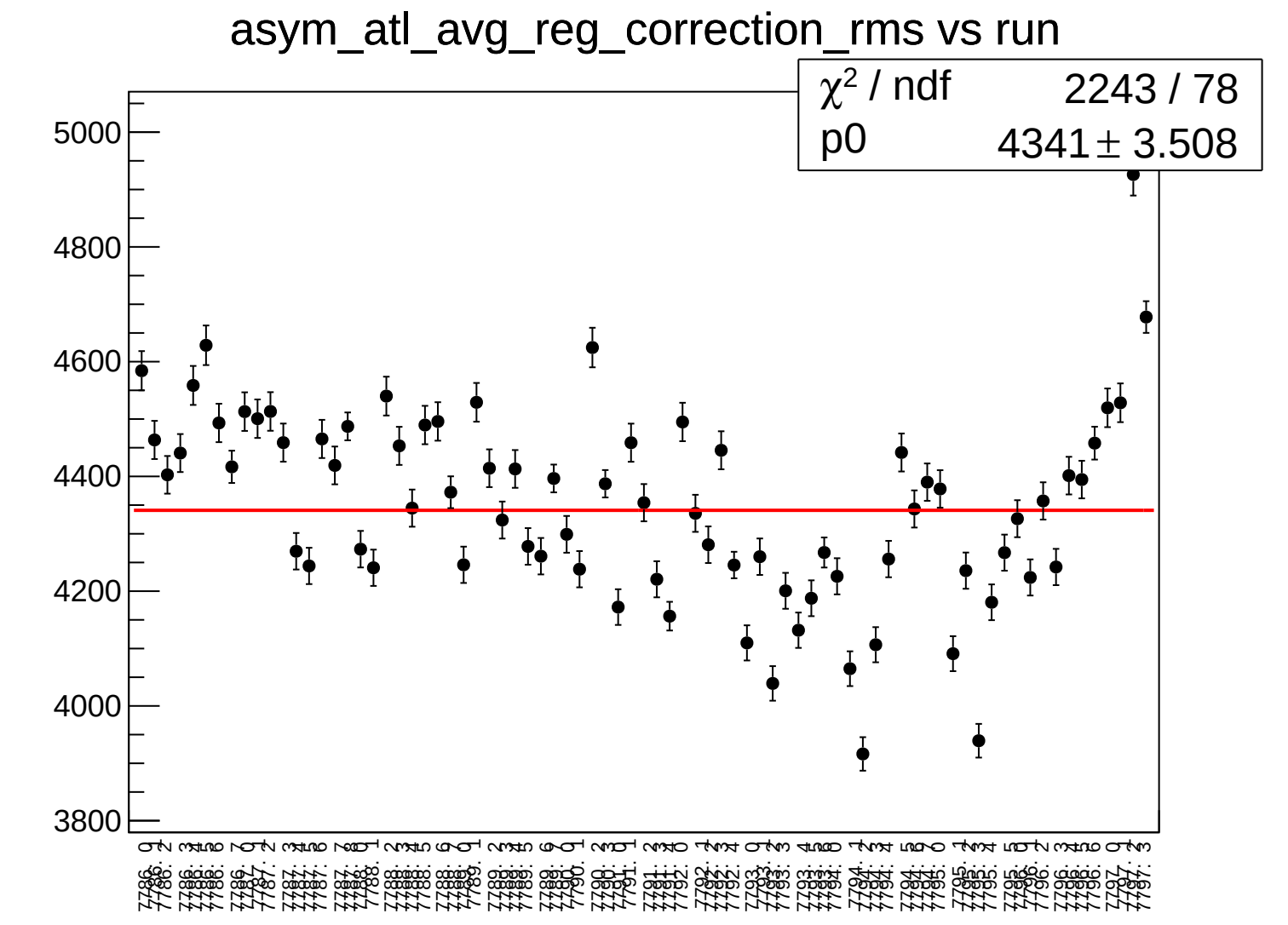

reg_asym_atl_avg_mean vs run
χ² / ndf 65.31 / 78
p0 −2746 ± 1874
pull
Entries 79
Mean 260.8
Std Dev 179.7

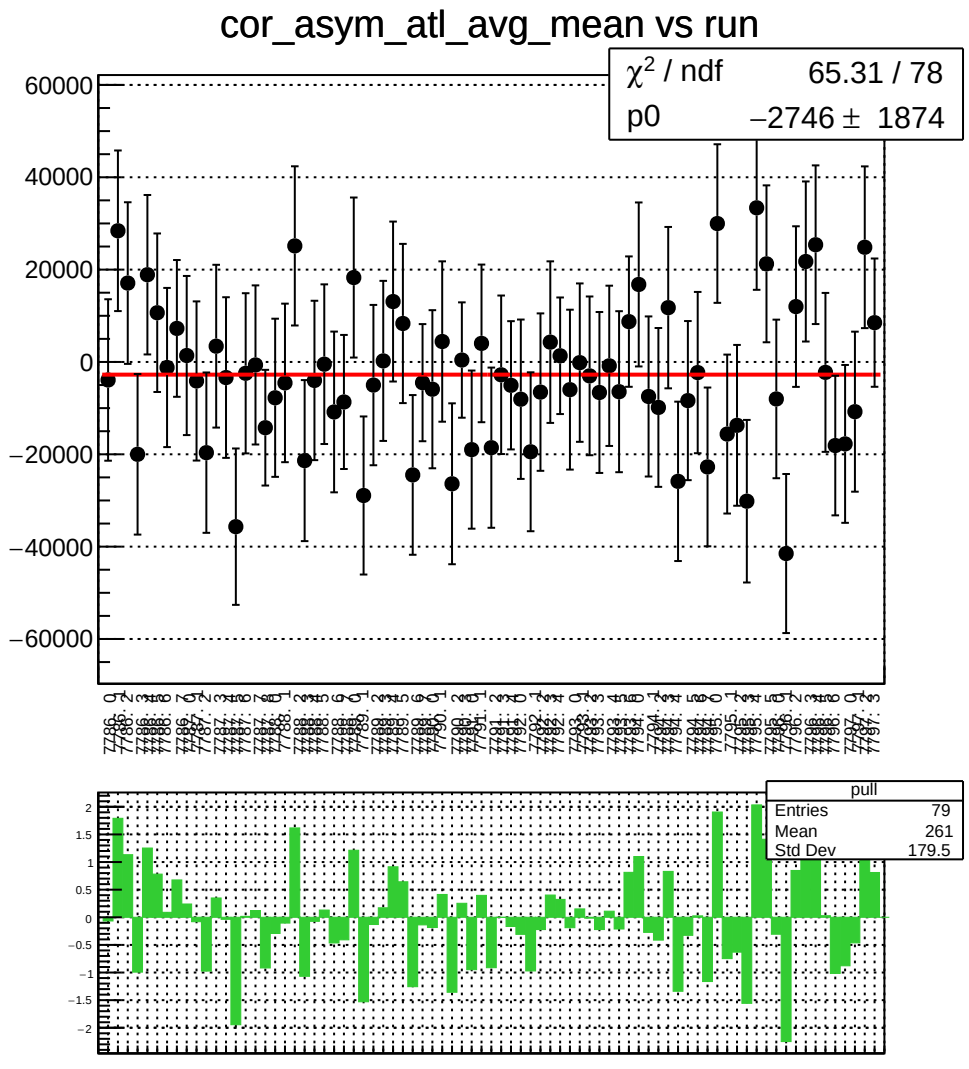

pull1D
Entries 79
Mean 0.001095
Std Dev 0.9092

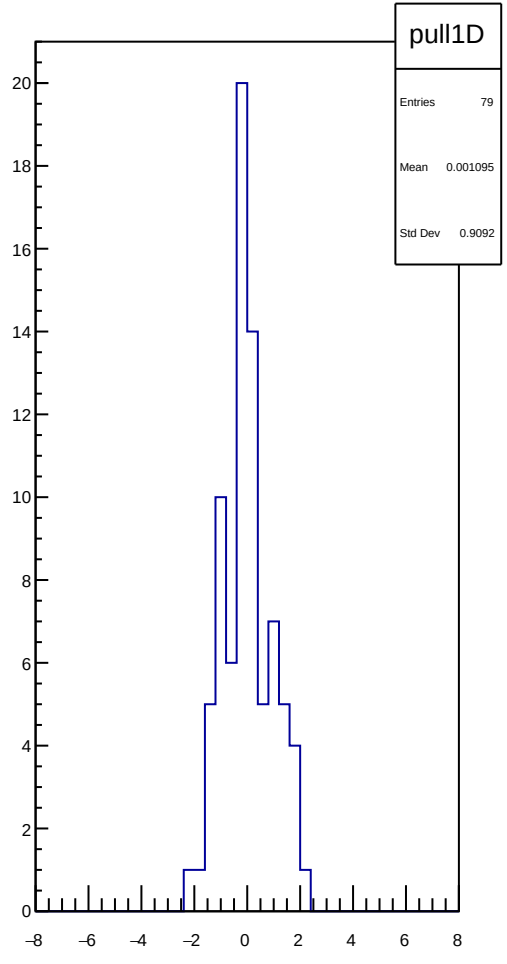

reg_asym_atl_avg_rms vs run
χ^2 / ndf 121 / 78
p0 1641 ± 1.325
1700
1680
1660
1640
1620
1600

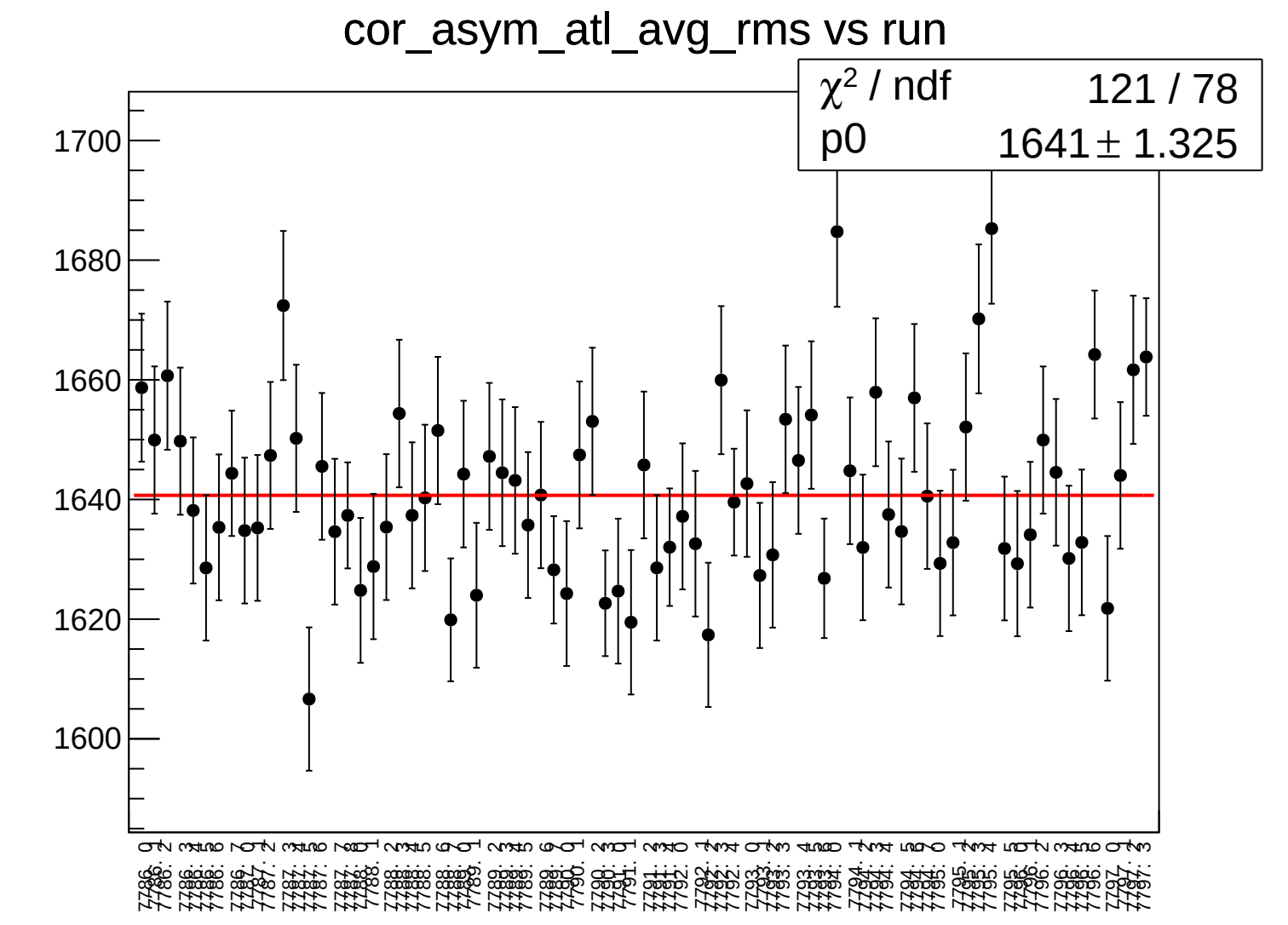

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 77.79 / 78
p0 −780.6 ± 4960
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −410.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

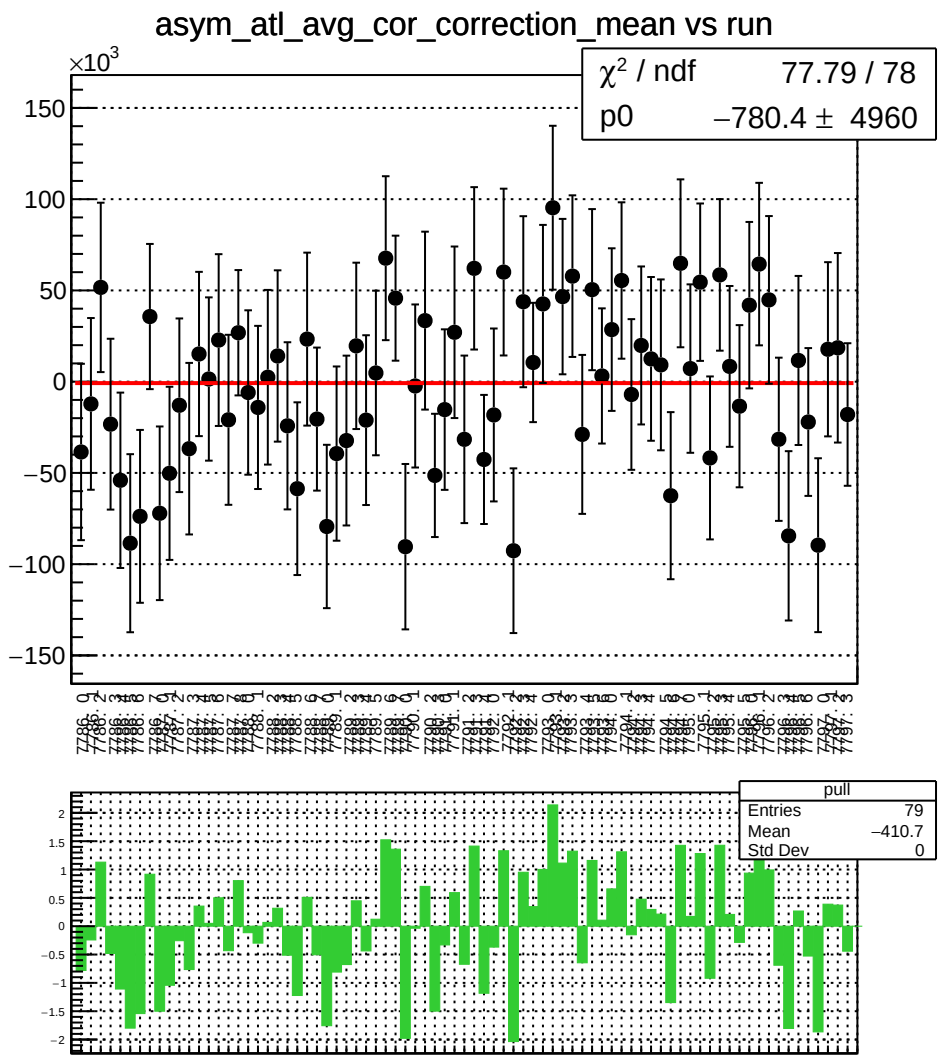

pull1D
Entries 79
Mean −0.01099
Std Dev 0.9923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

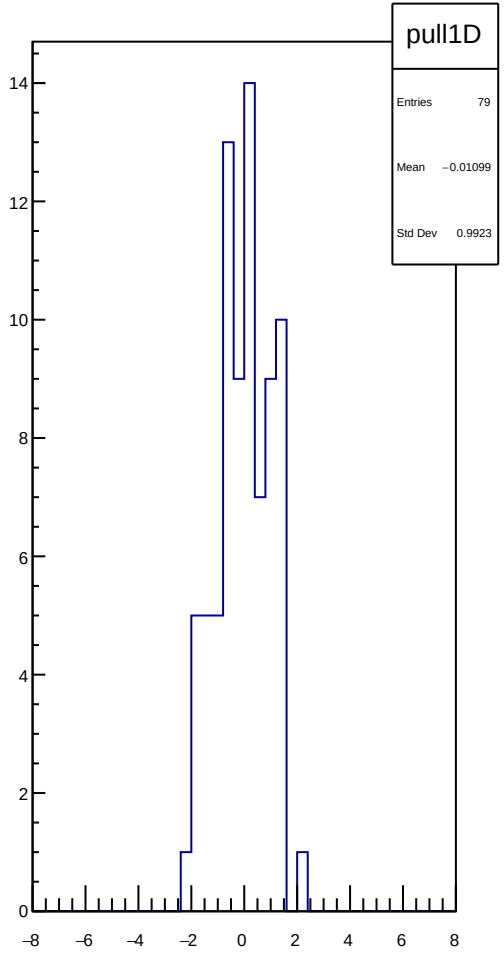

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 2243 / 78
p0 4341 ± 3.508
5000
4800
4600
4400
4200
4000
3800

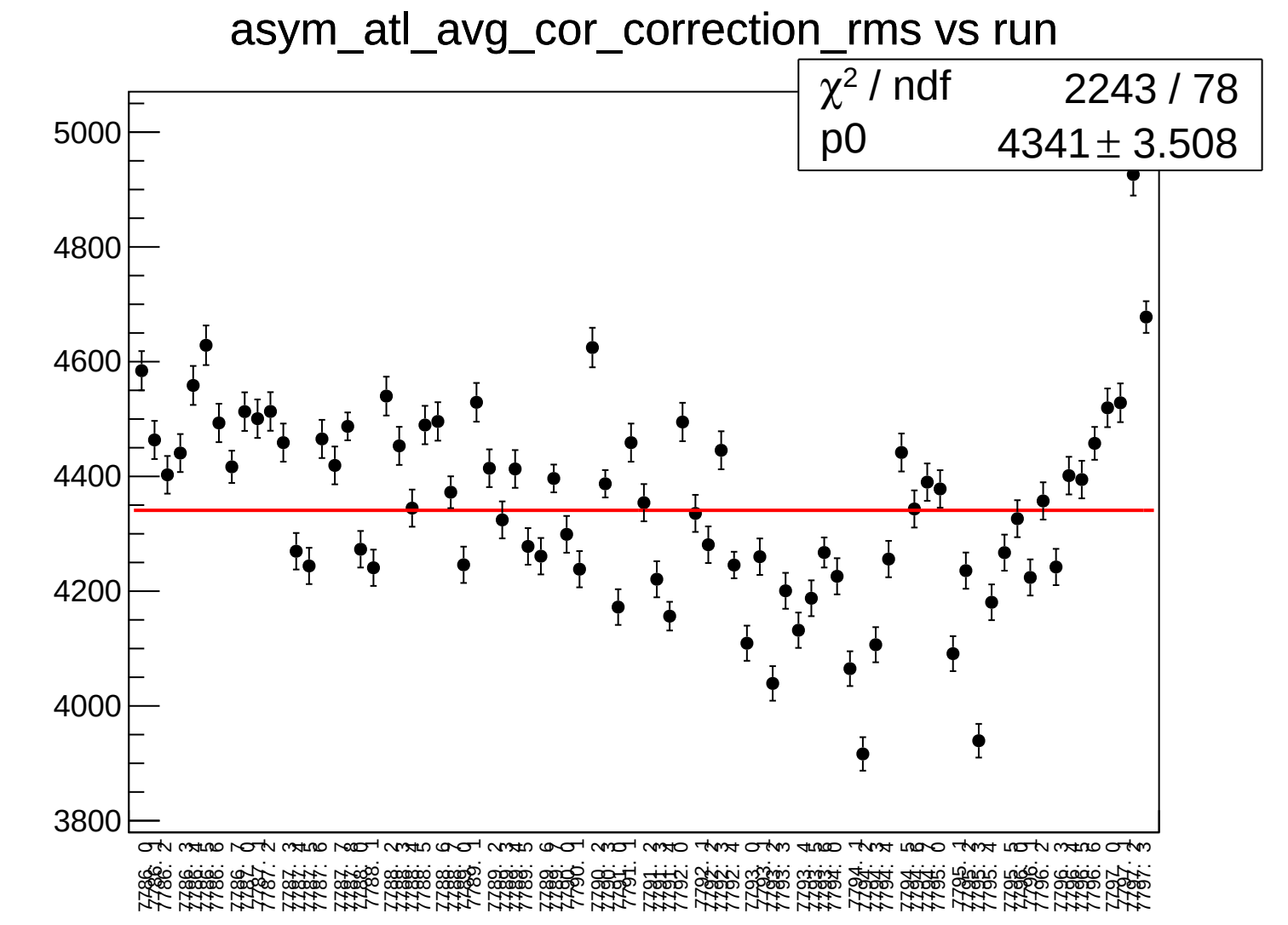

cor_asym_atl_avg_mean vs run
χ² / ndf 65.31 / 78
p0 −2746 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 261
Std Dev 179.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

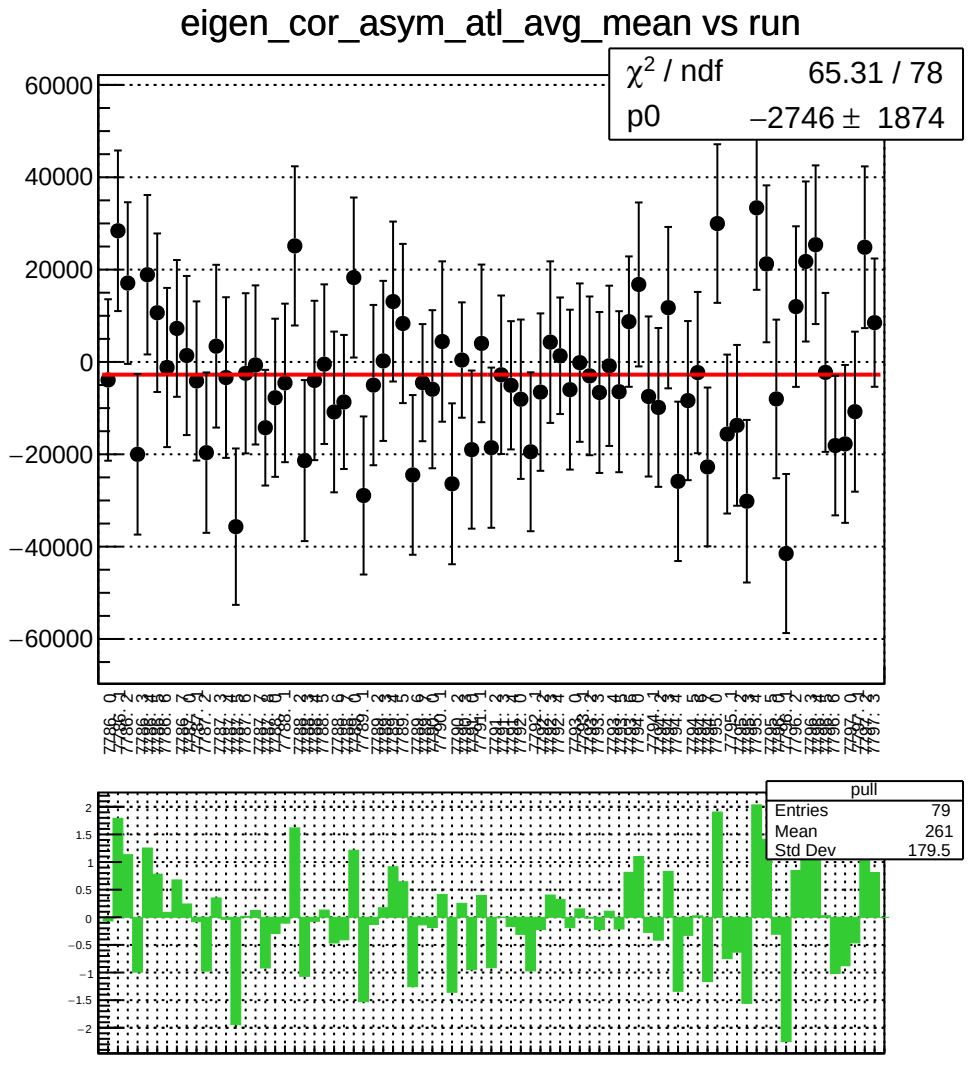

pull1D
Entries 79
Mean 0.001095
Std Dev 0.9092
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

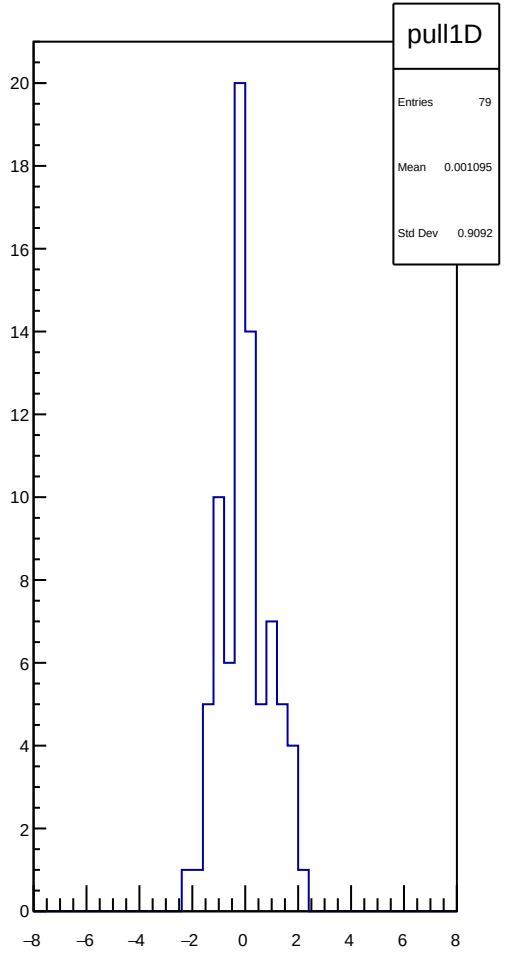

cor_asym_atl_avg_rms vs run
χ² / ndf 121 / 78
p0 1641 ± 1.325
1700
1680
1660
1640
1620
1600

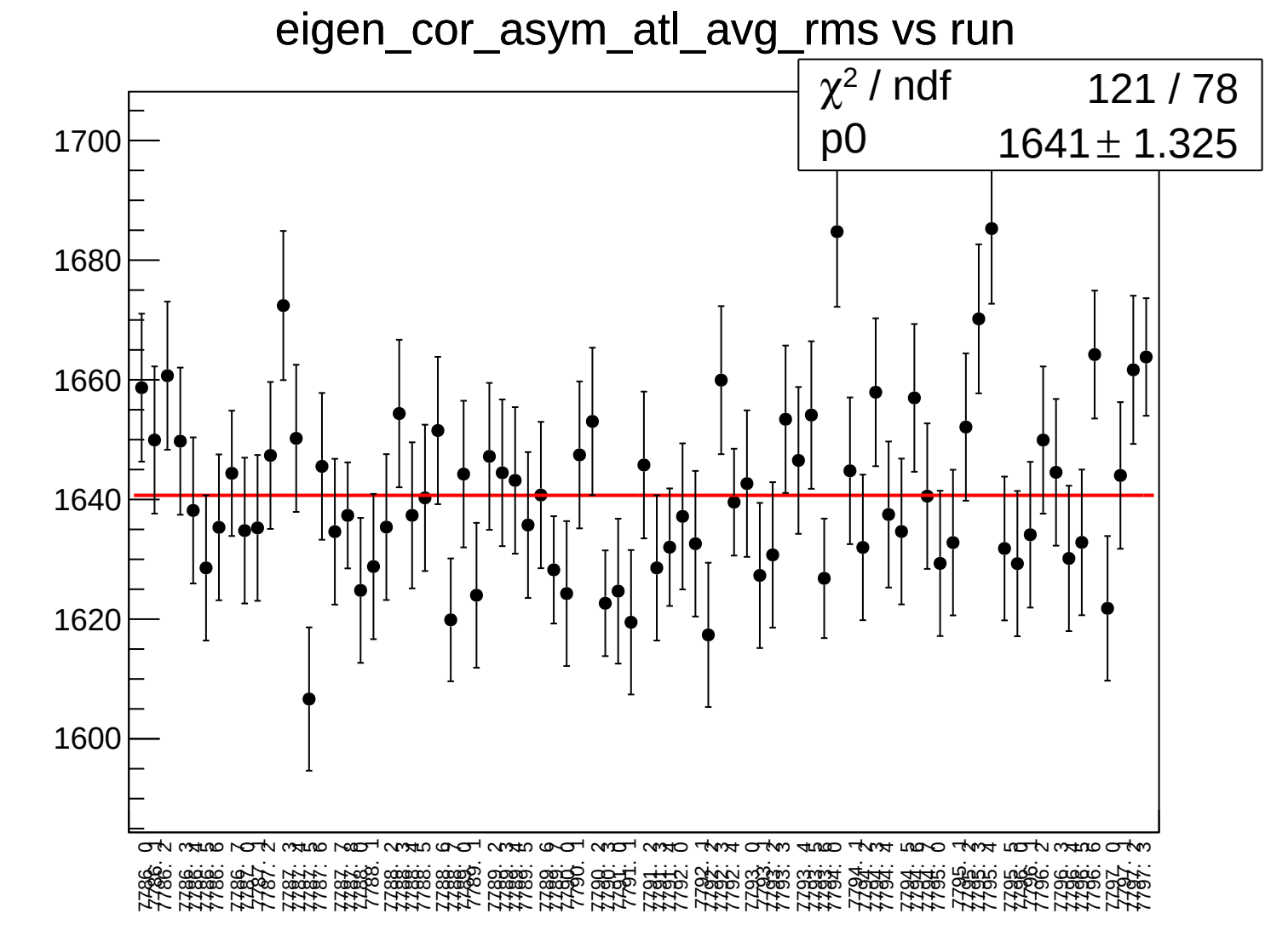

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 77.79 / 78
p0 −780.4 ± 4960
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −410.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

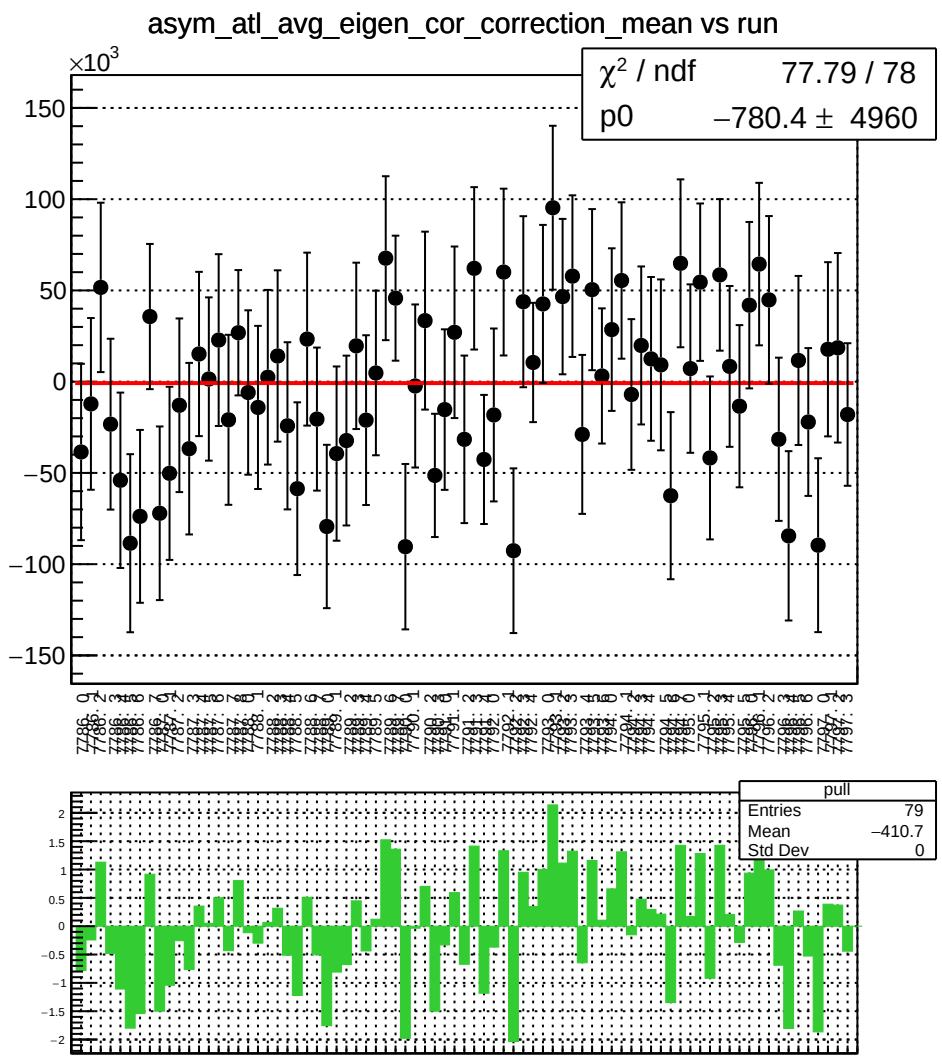

pull1D
Entries 79
Mean −0.01099
Std Dev 0.9923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

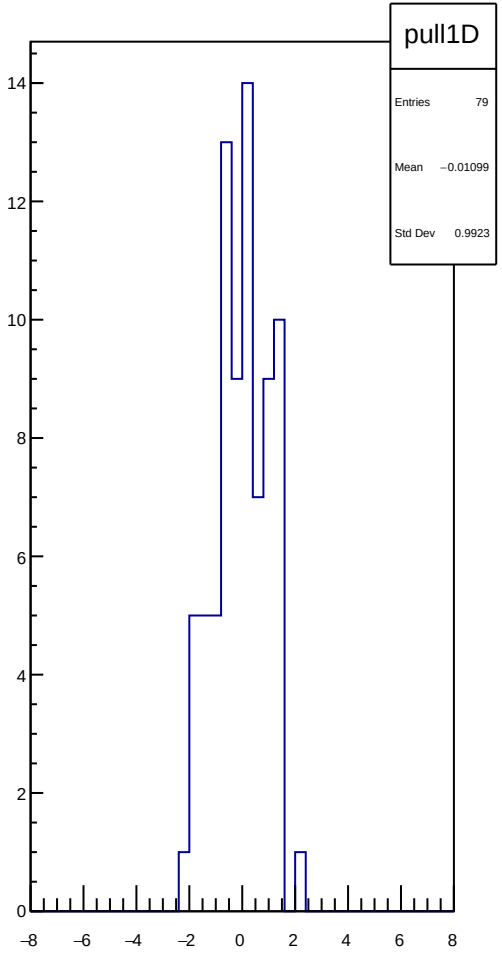

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 2243 / 78
p0 4341 ± 3.508
5000
4800
4600
4400
4200
4000
3800

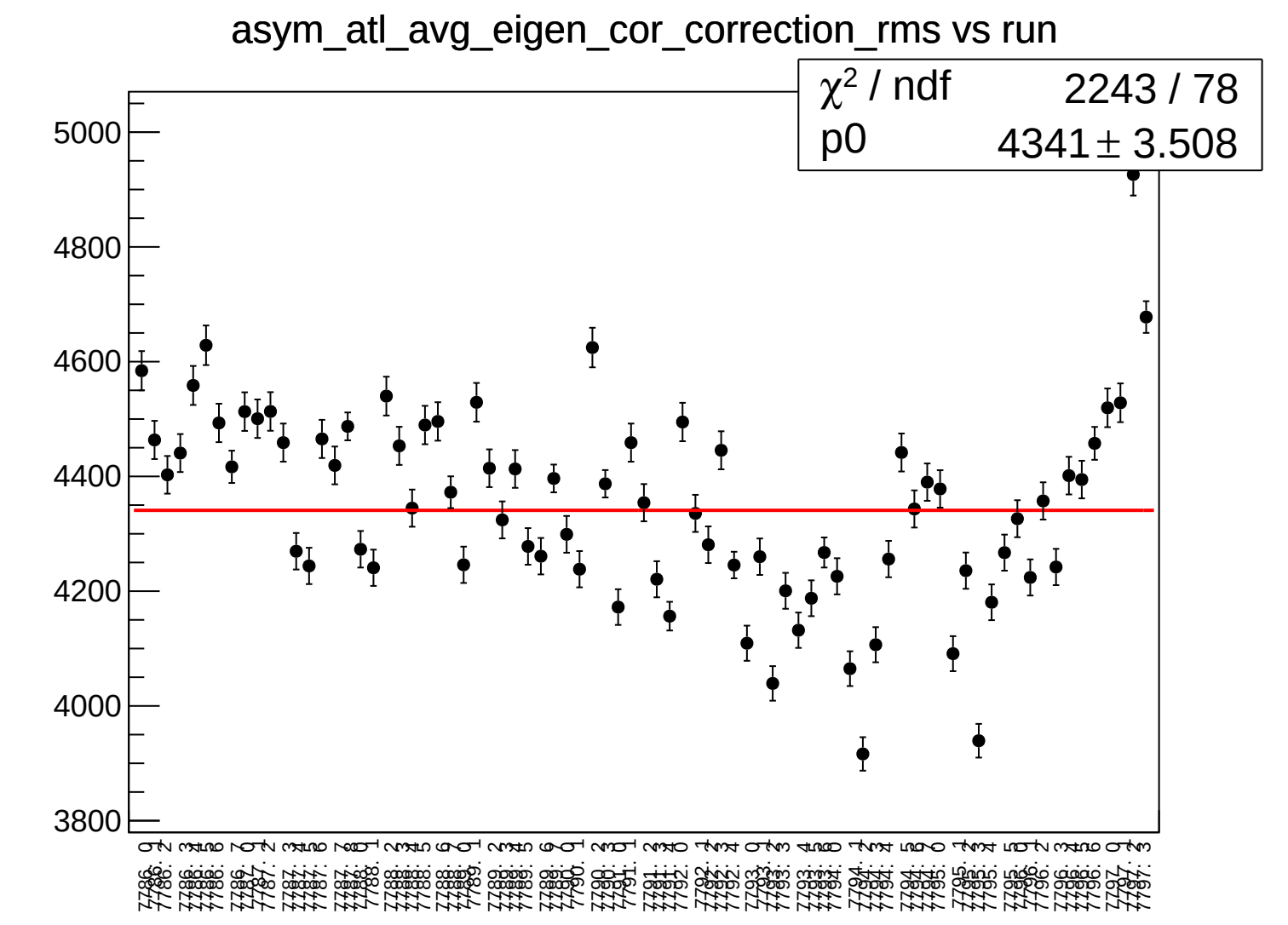

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 65.31 / 78
p0 −2746 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 261
Std Dev 179.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

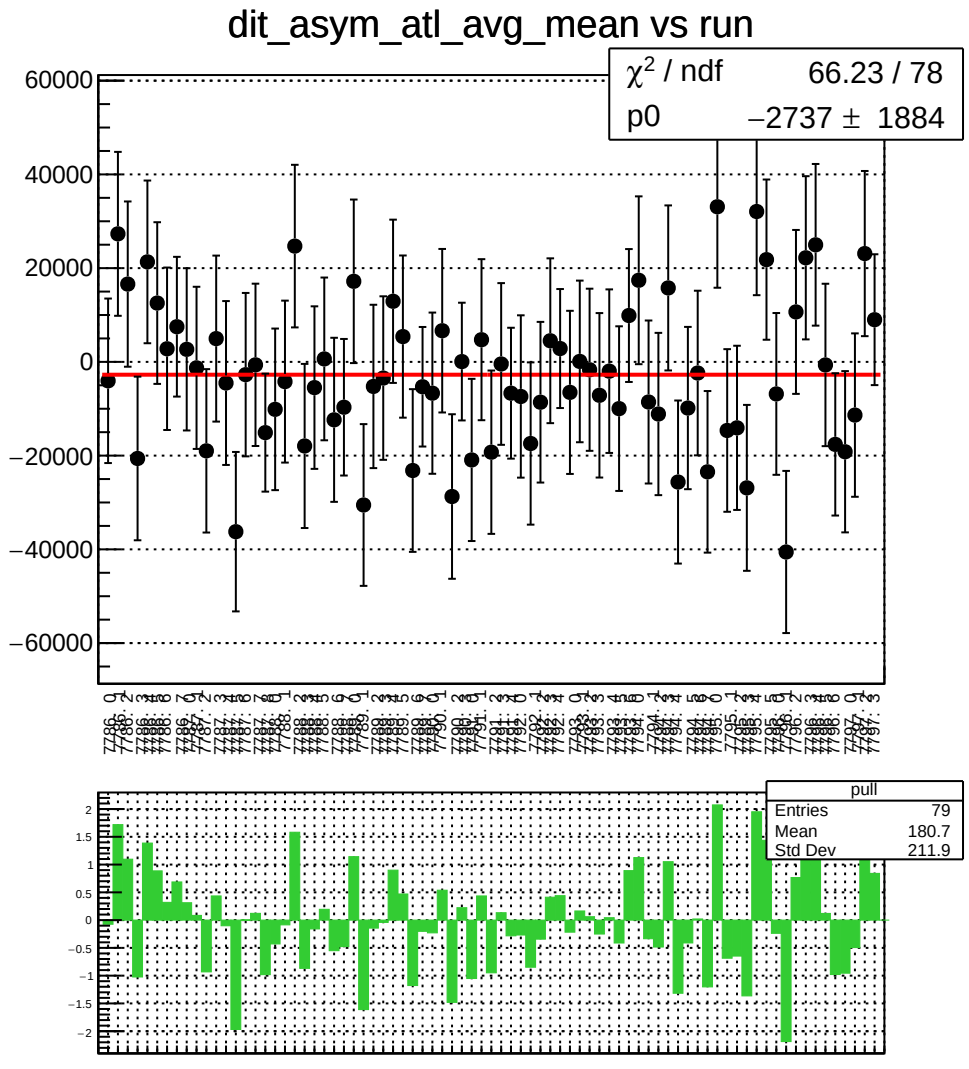

pull1D
Entries 79
Mean 0.001095
Std Dev 0.9092
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

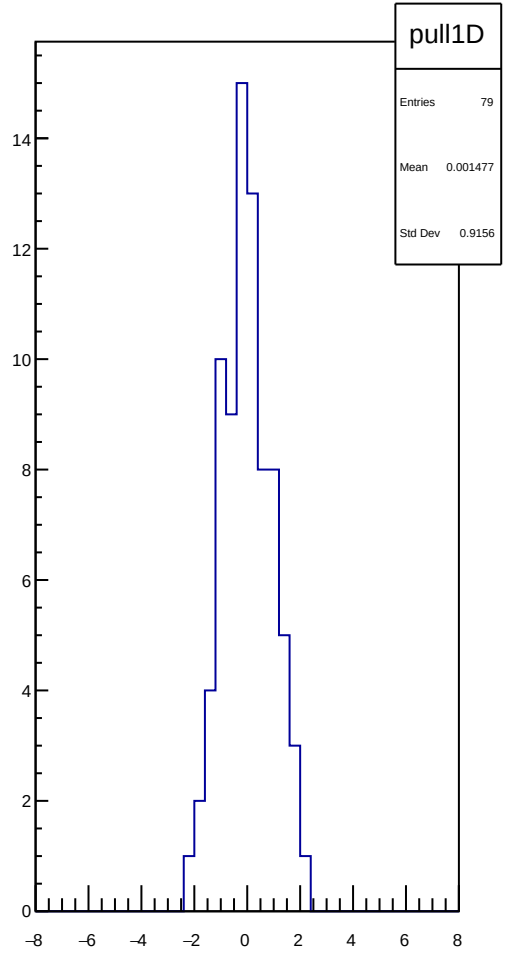

eigen_cor_asym_atl_avg_rms vs run
χ^2 / ndf 121 / 78
p0 1641 ± 1.325
1700
1680
1660
1640
1620
1600

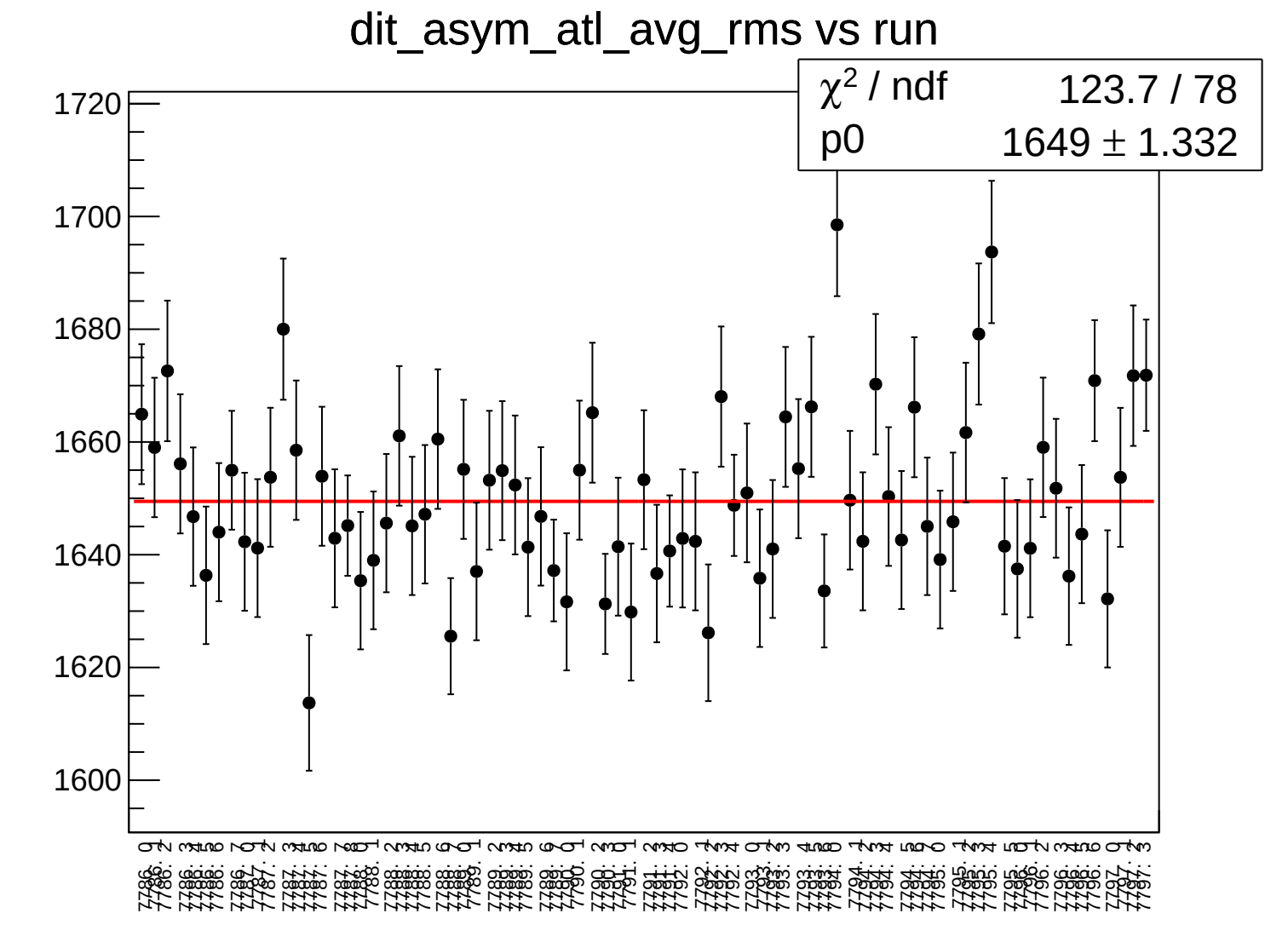

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 77.79 / 78
p0 −780.4 ± 4960
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −410.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

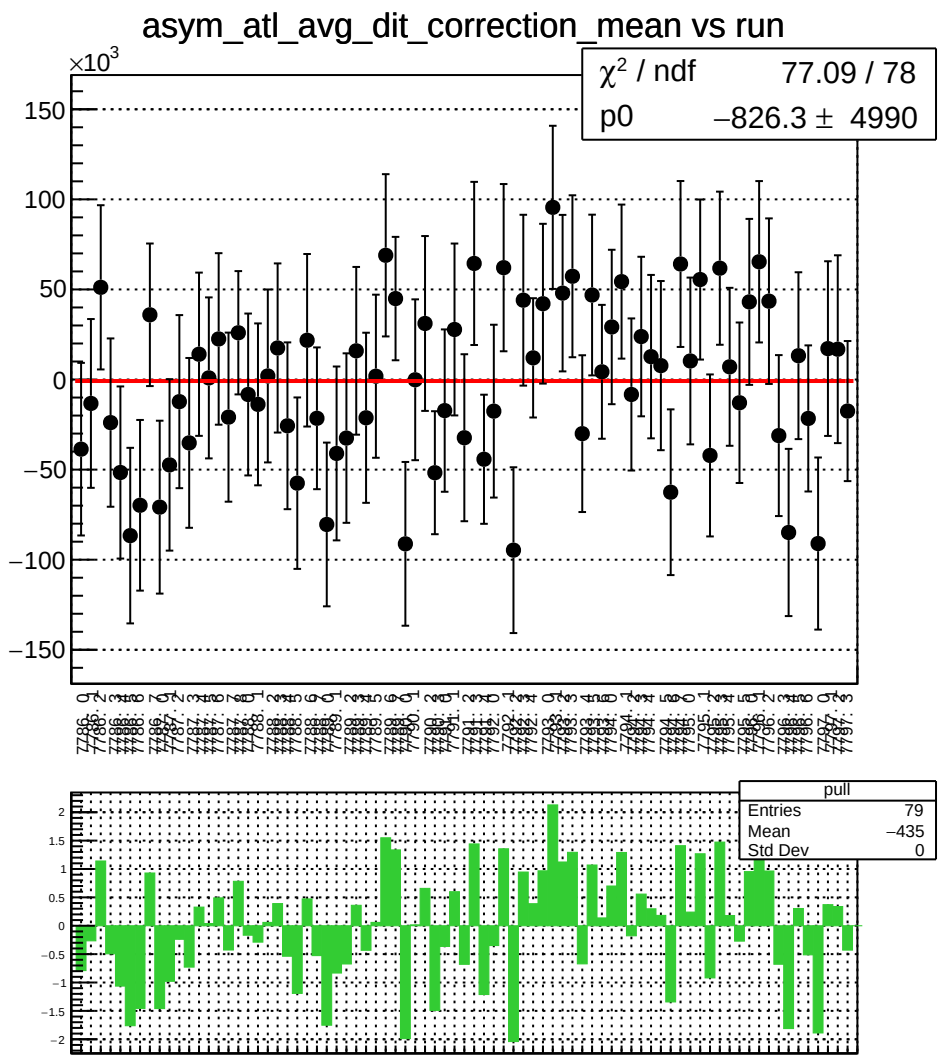

pull1D
Entries 79
Mean −0.01099
Std Dev 0.9923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

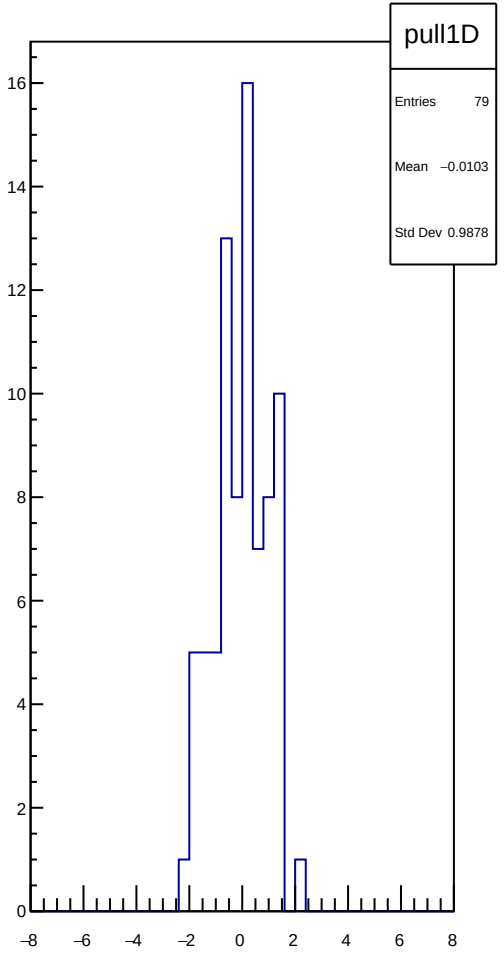

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 2243 / 78
p0 4341 ± 3.508
5000
4800
4600
4400
4200
4000
3800

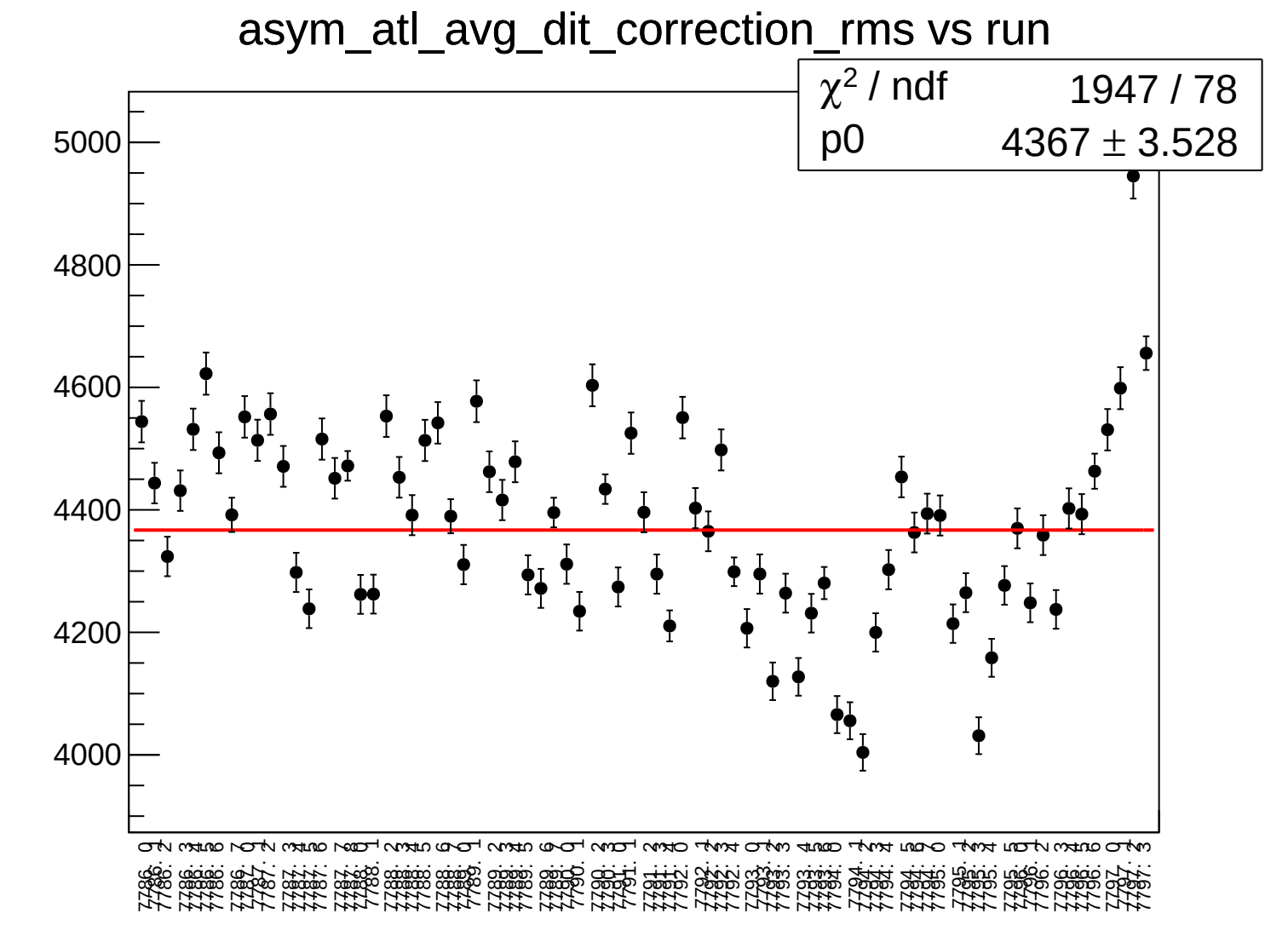

dit_asym_atl_avg_mean vs run
χ² / ndf 66.23 / 78
p0 −2737 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 180.7
Std Dev 211.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

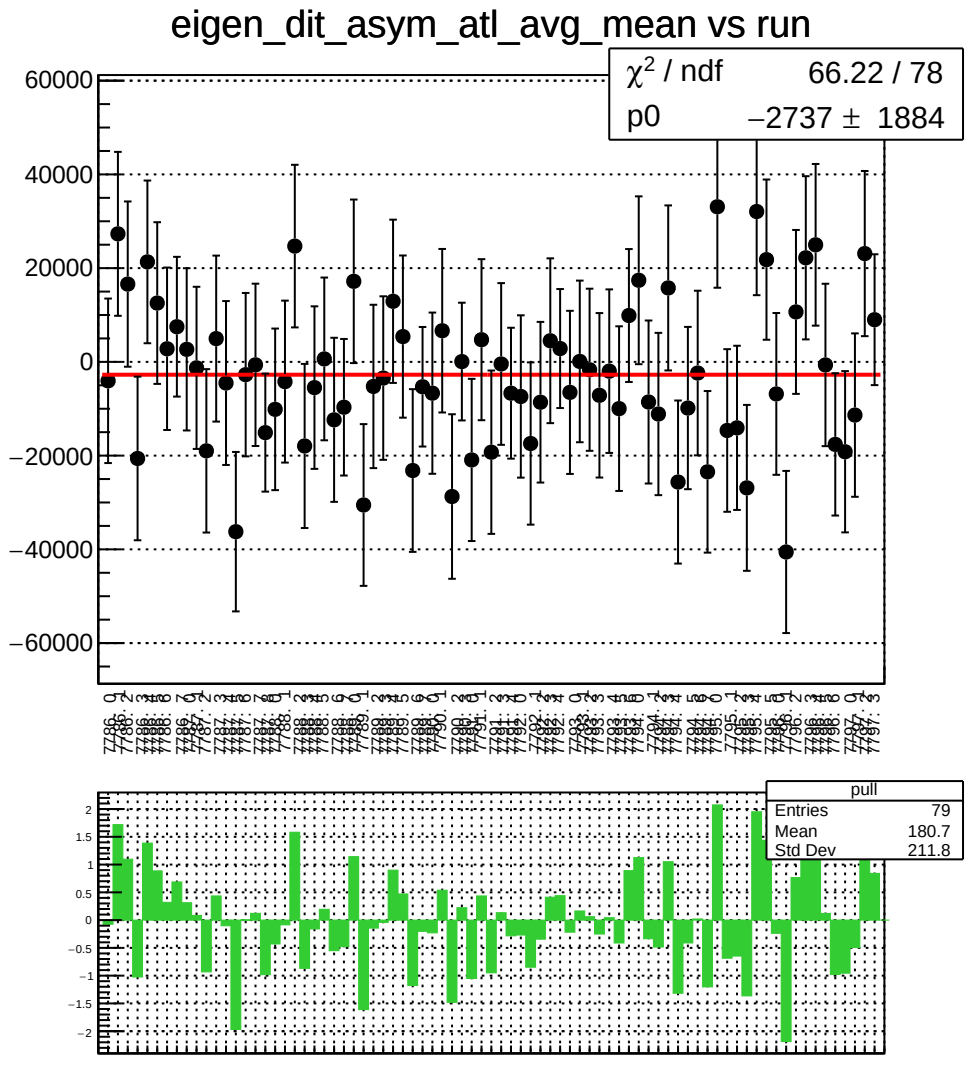

pull1D
Entries 79
Mean 0.001477
Std Dev 0.9156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

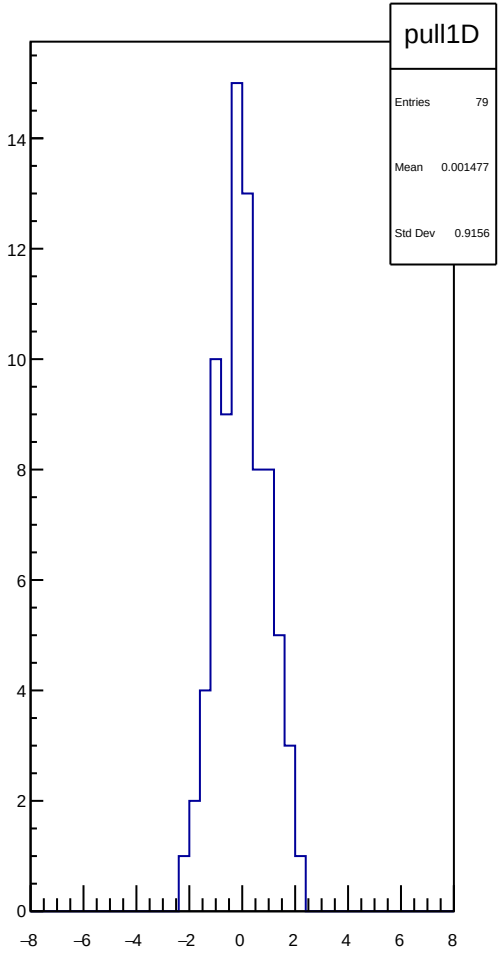

dit_asym_atl_avg_rms vs run
χ² / ndf 123.7 / 78
p0 1649 ± 1.332
1720
1700
1680
1660
1640
1620
1600

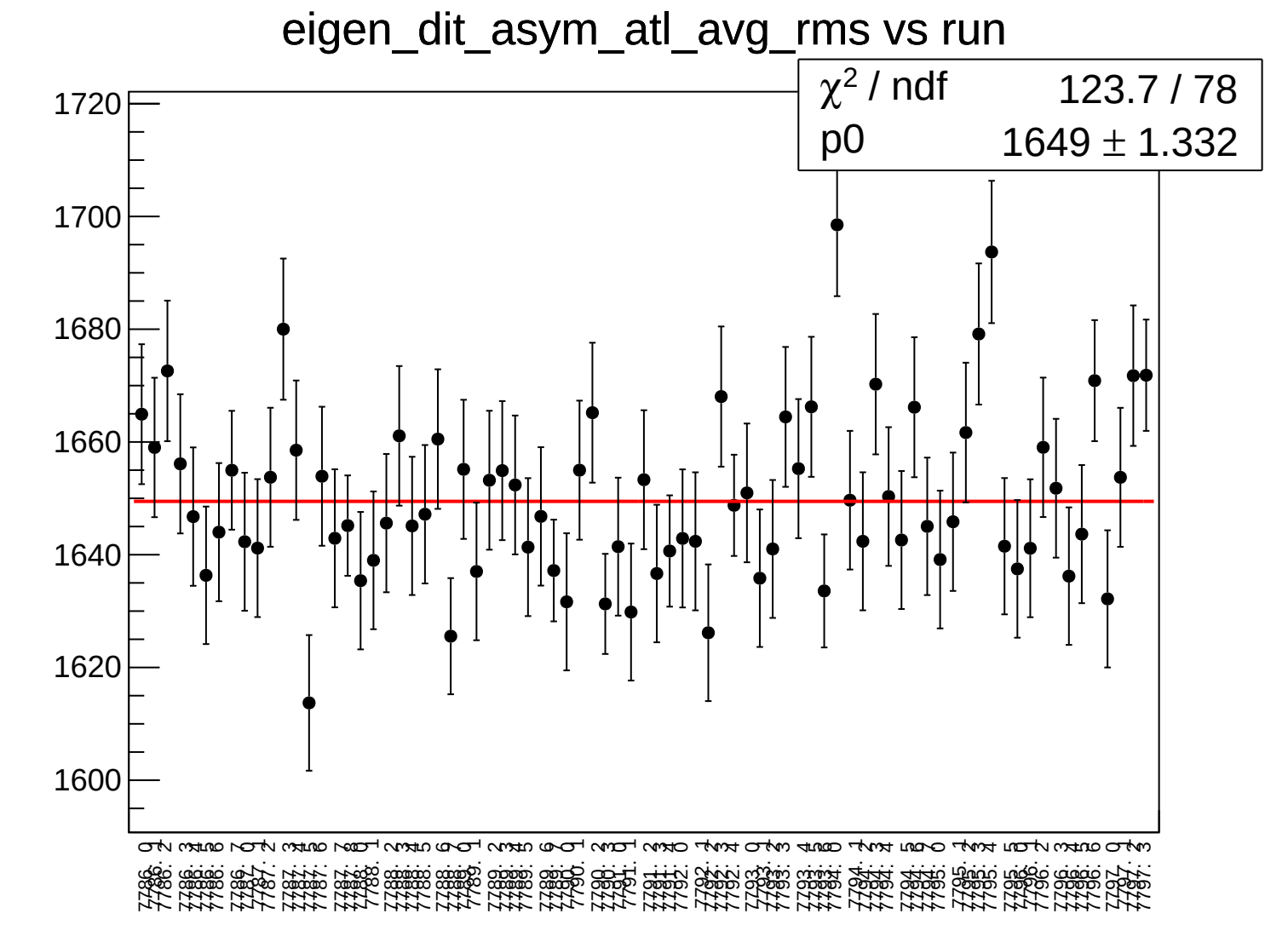

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.09 / 78
p0 −826.3 ± 4990
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −435
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

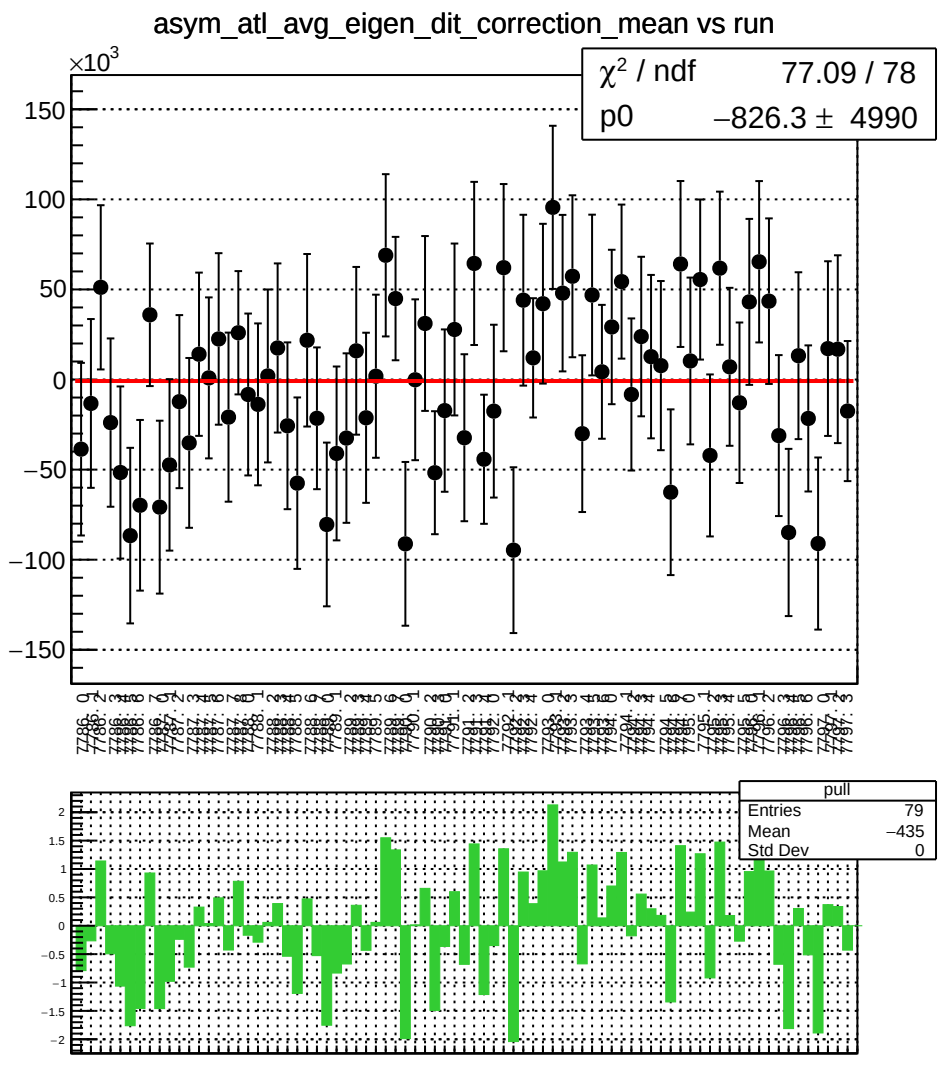

pull1D
Entries 79
Mean −0.0103
Std Dev 0.9878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

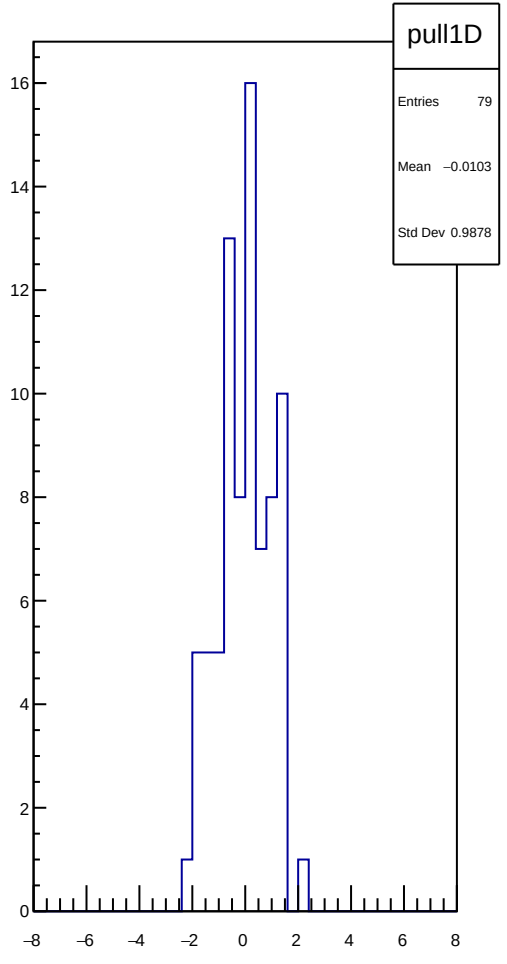

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1947 / 78
p0 4367 ± 3.528
5000
4800
4600
4400
4200
4000

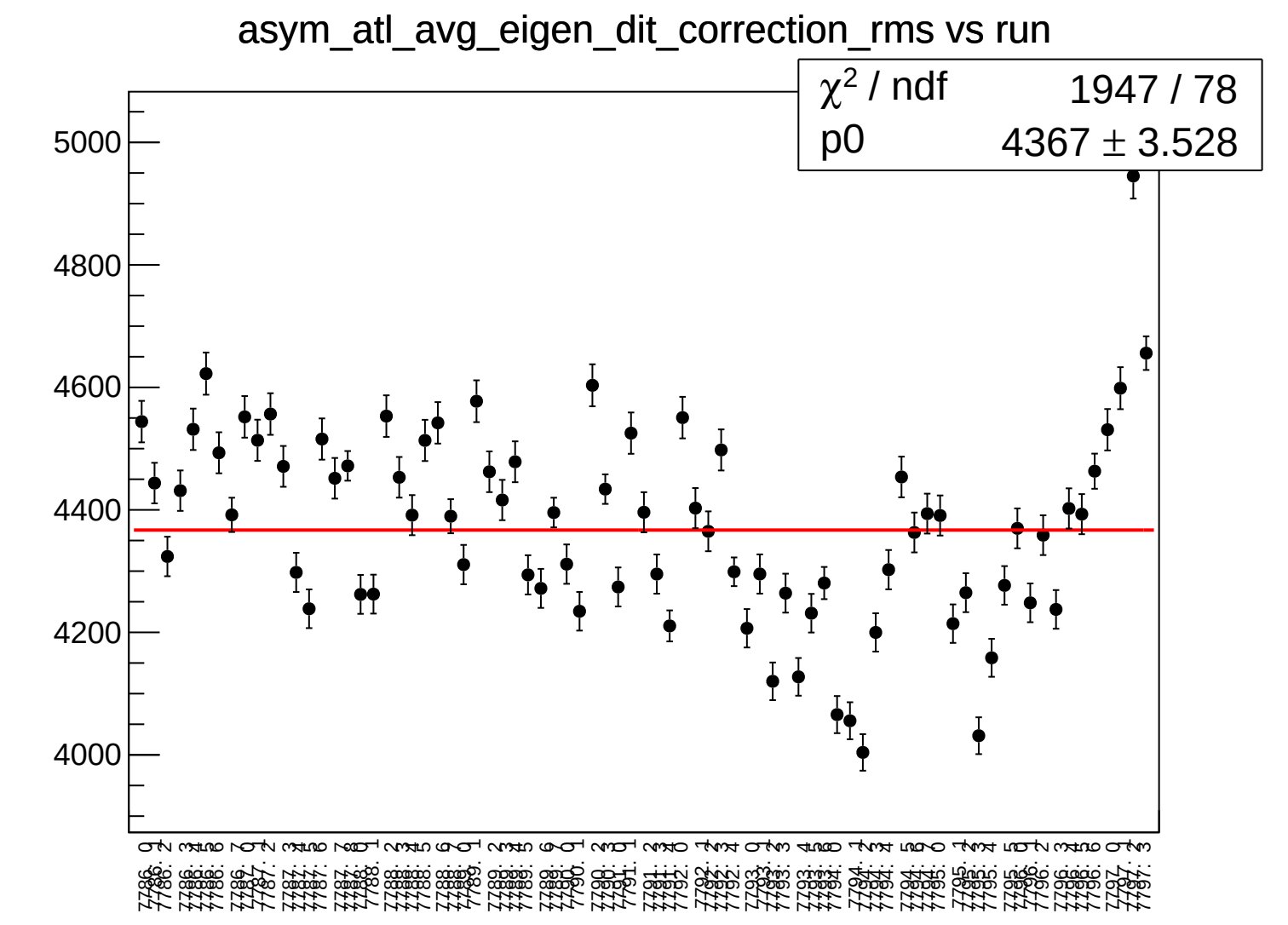

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 66.22 / 78
p0 −2737 ± 1884
pull
Entries 79
Mean 180.7
Std Dev 211.8

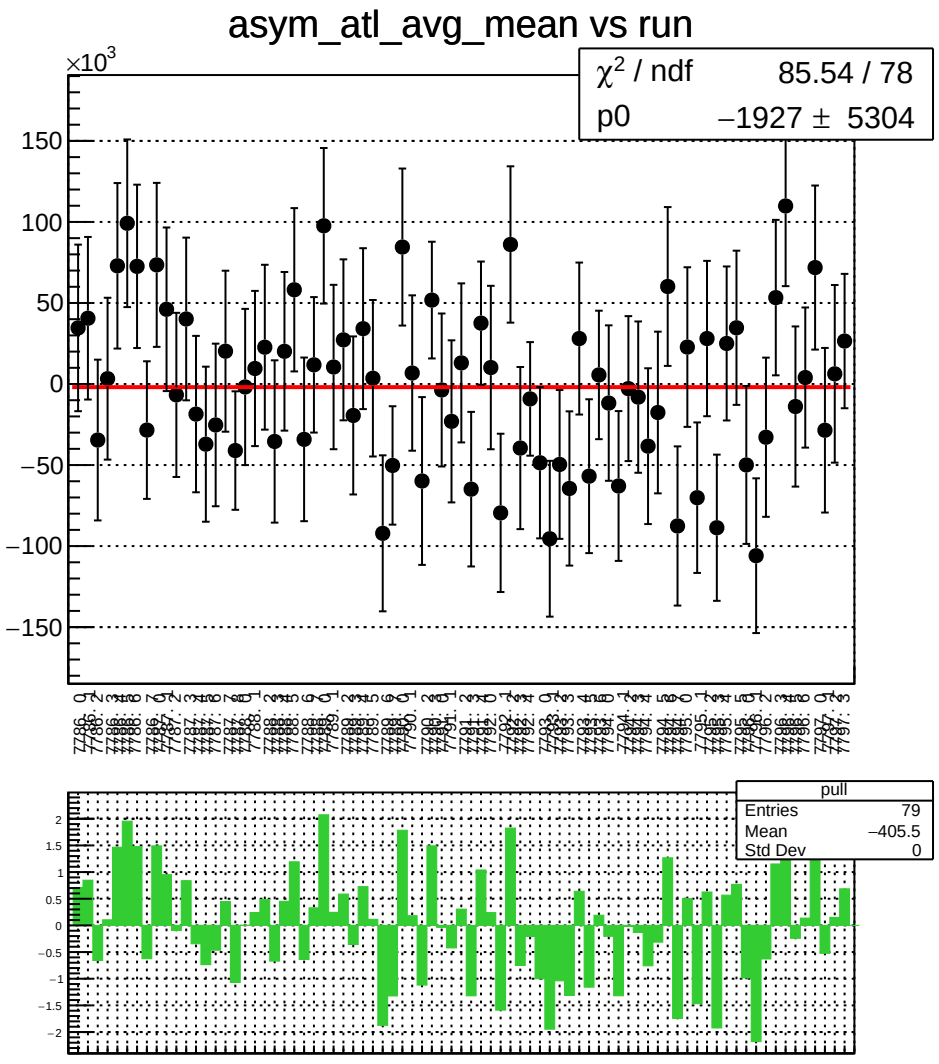

pull1D
Entries 79
Mean 0.001477
Std Dev 0.9156

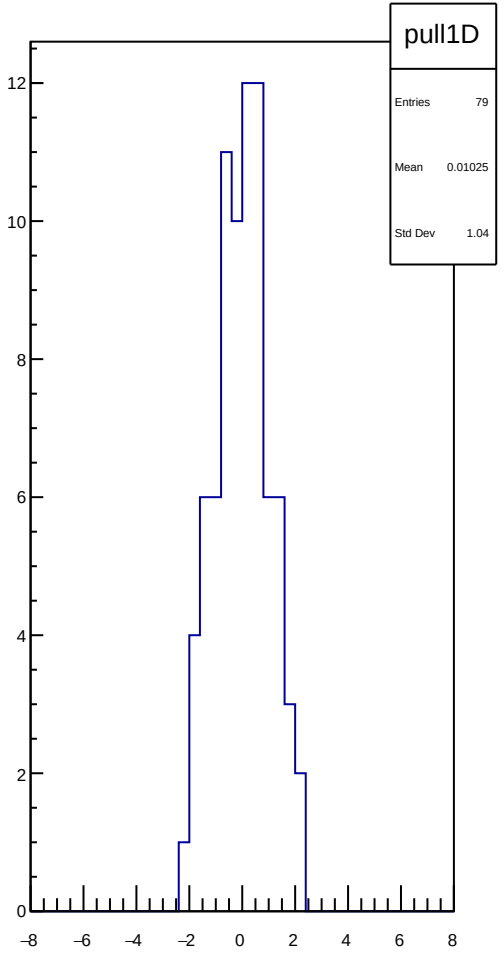

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 123.7 / 78
p0 1649 ± 1.332
1720
1700
1680
1660
1640
1620
1600

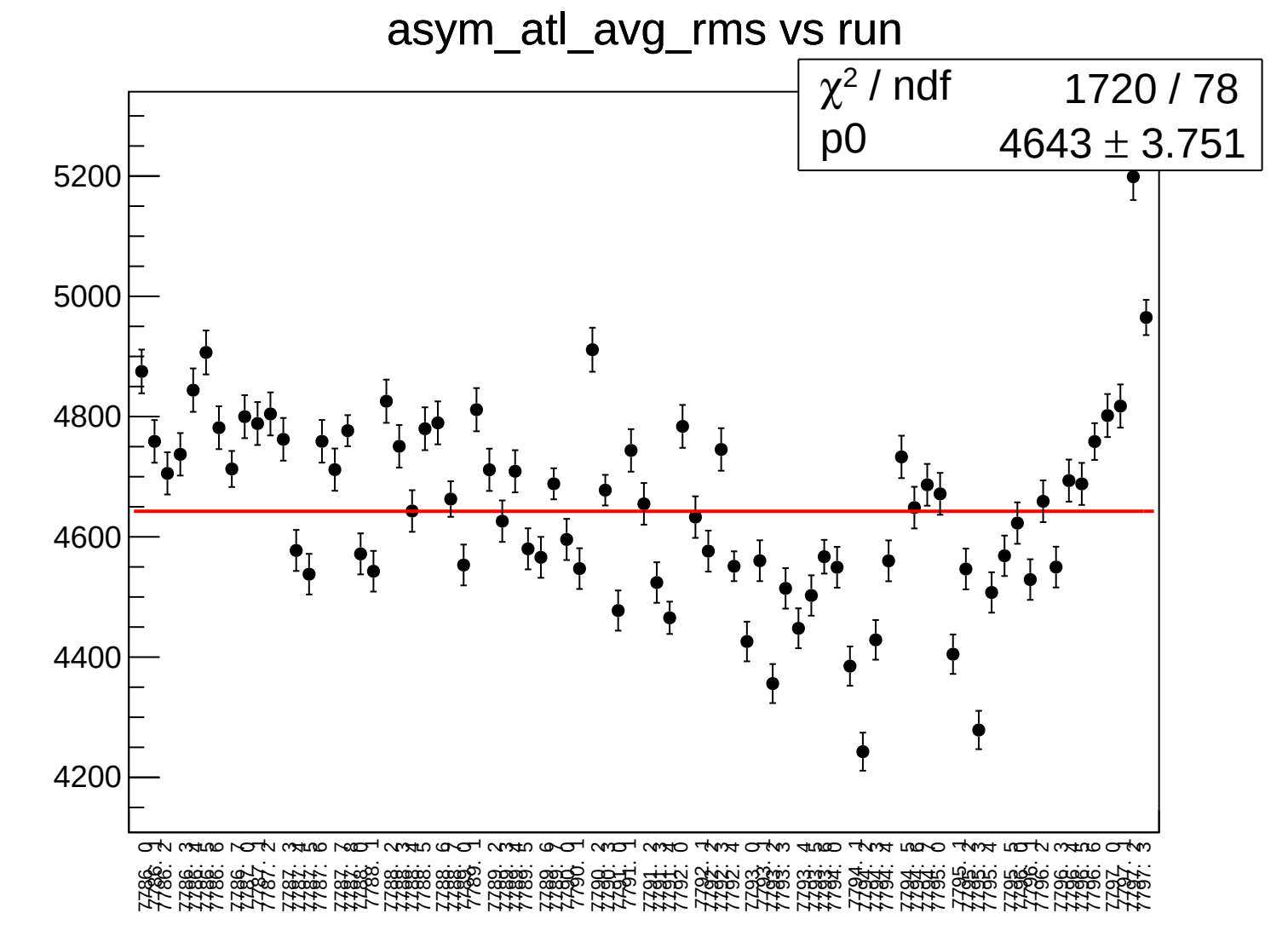

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.09 / 78
p0 −826.3 ± 4990
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −435
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

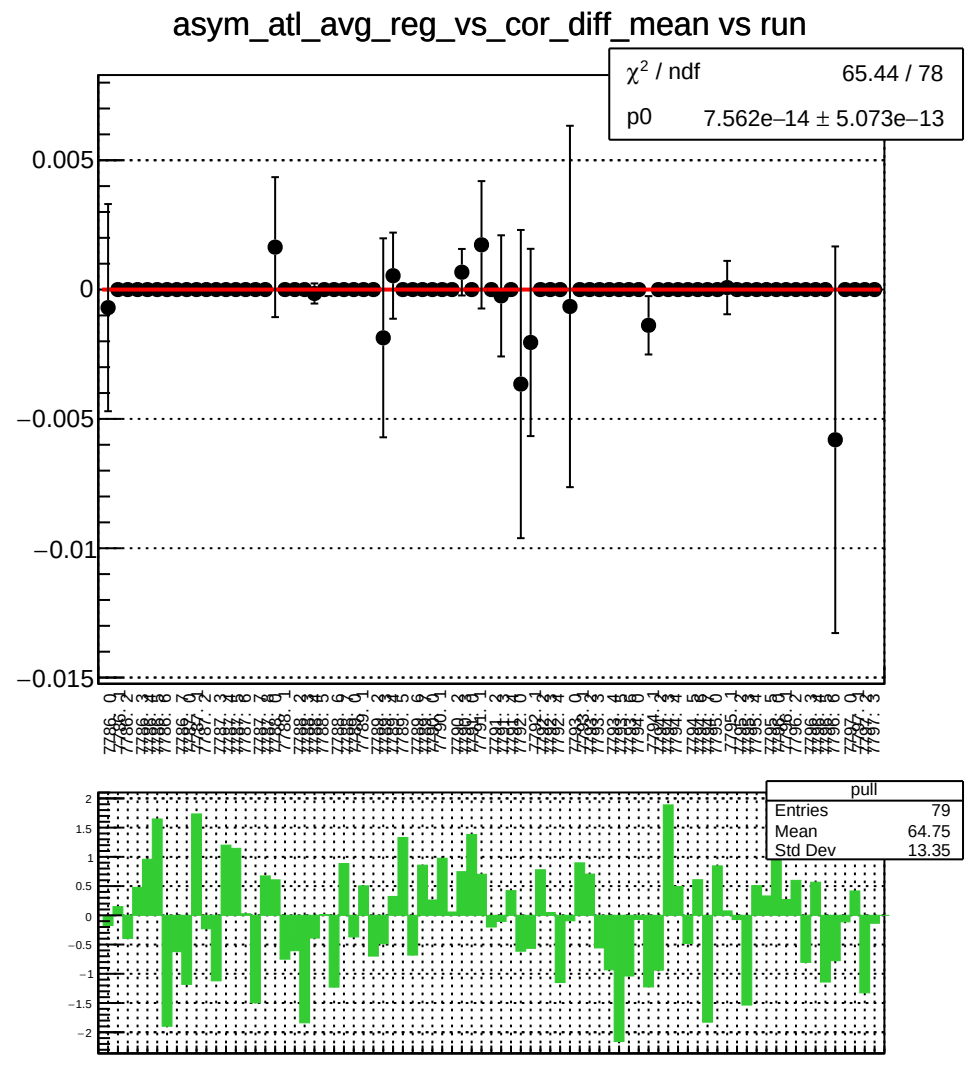

pull1D
Entries 79
Mean −0.0103
Std Dev 0.9878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

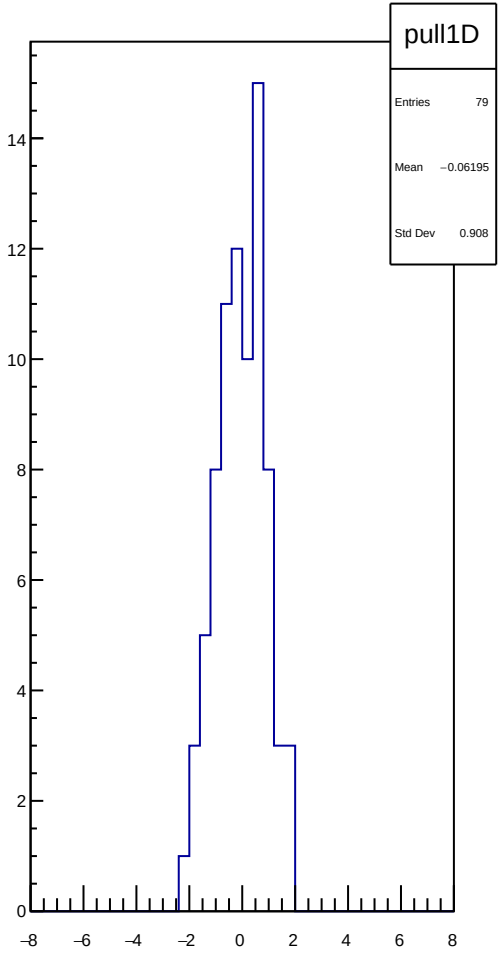

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1947 / 78
p0 4367 ± 3.528
5000
4800
4600
4400
4200
4000

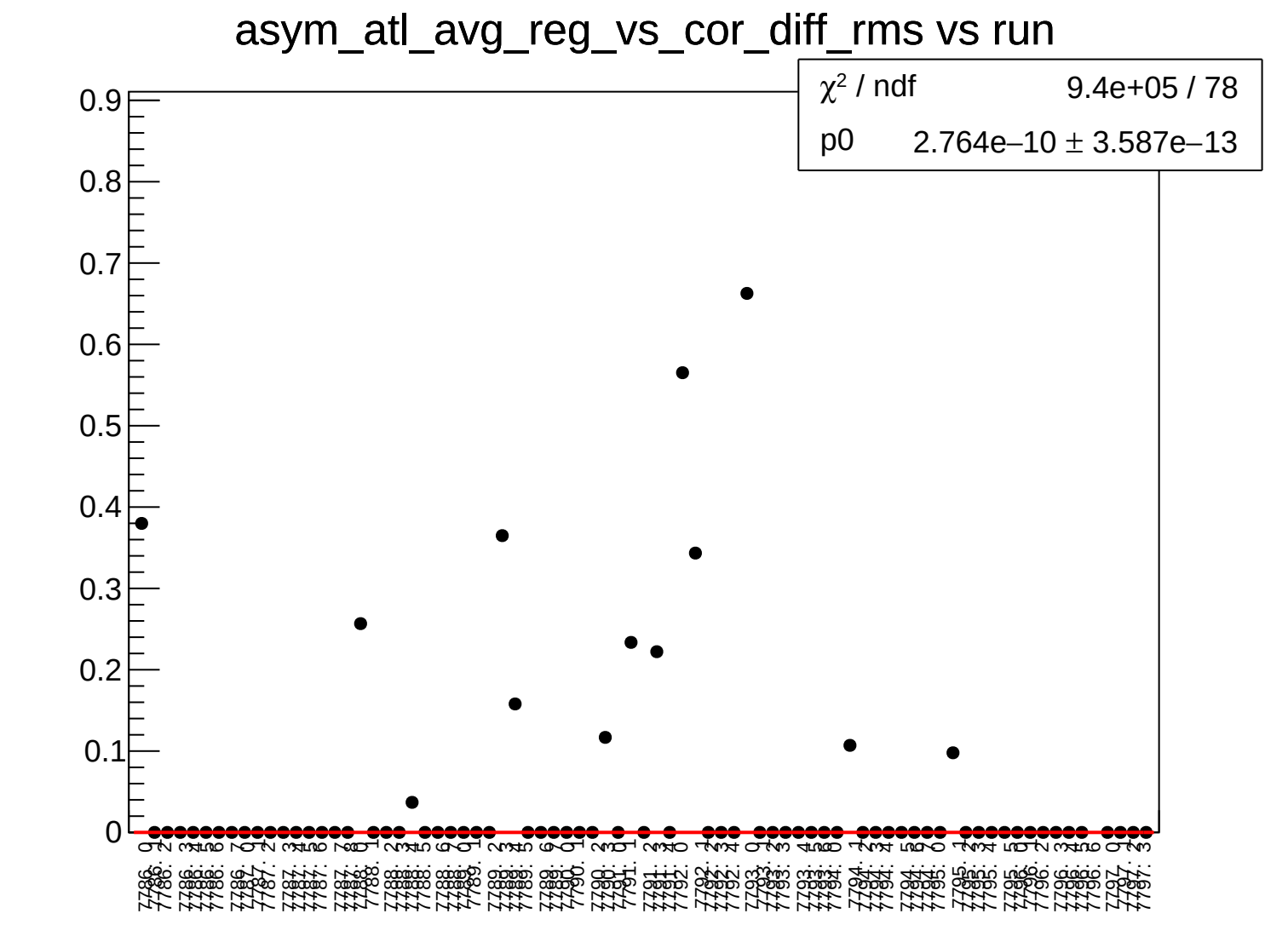

asym_atl_avg_mean vs run
χ² / ndf 85.54 / 78
p0 −1927 ± 5304
×10³
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −405.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

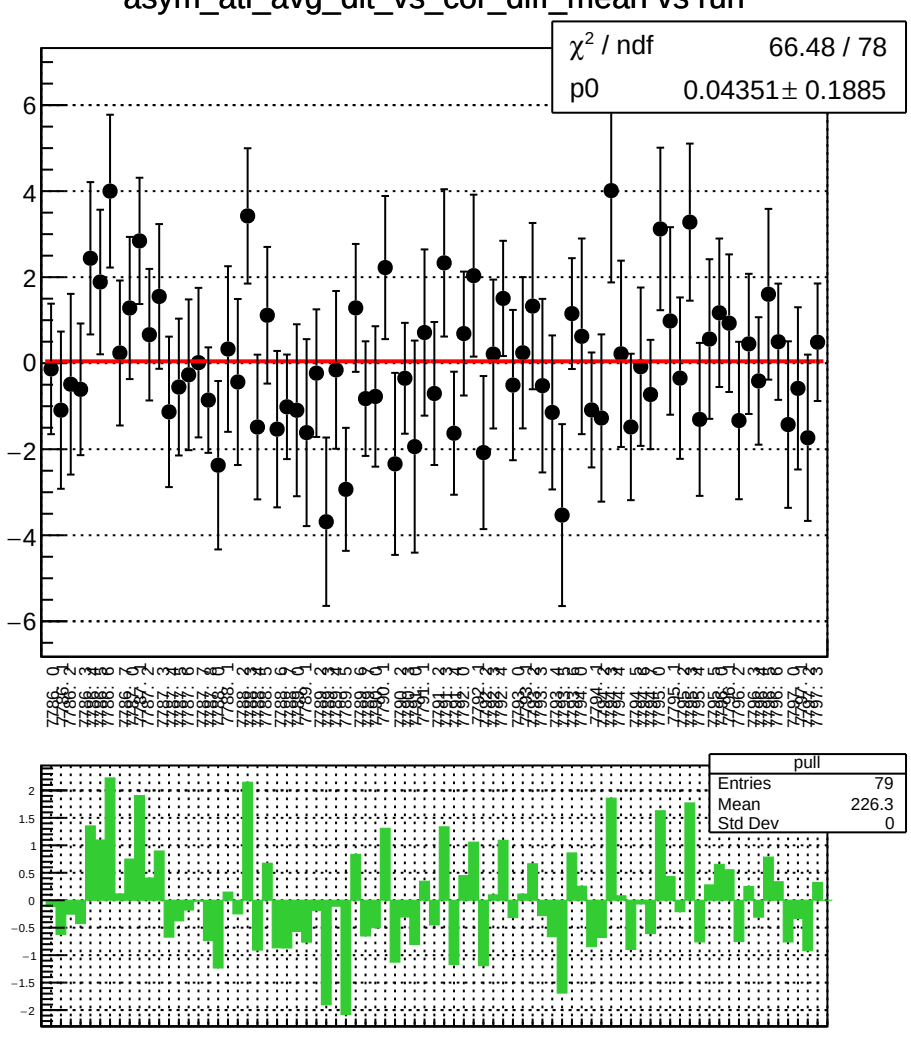

pull1D
Entries 79
Mean 0.01025
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

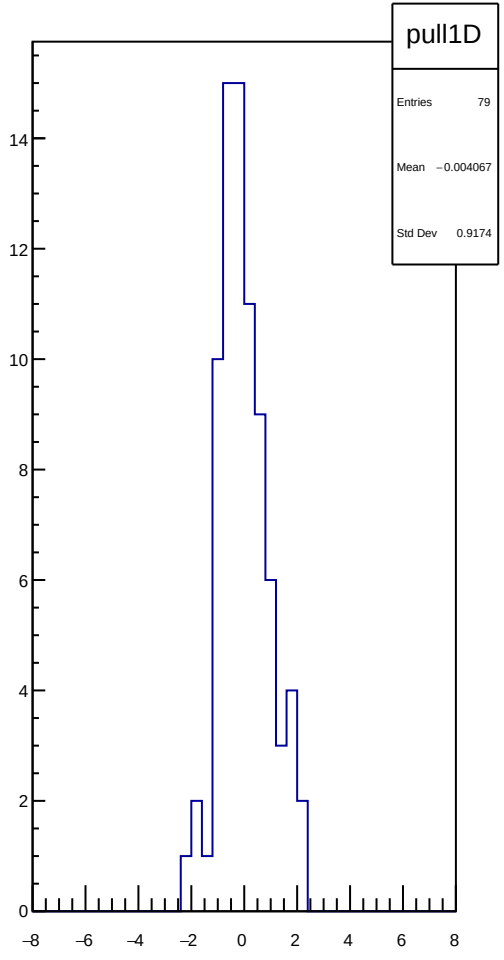

asym_atl_avg_rms vs run
χ² / ndf 1720 / 78
p0 4643 ± 3.751
5200
5000
4800
4600
4400
4200

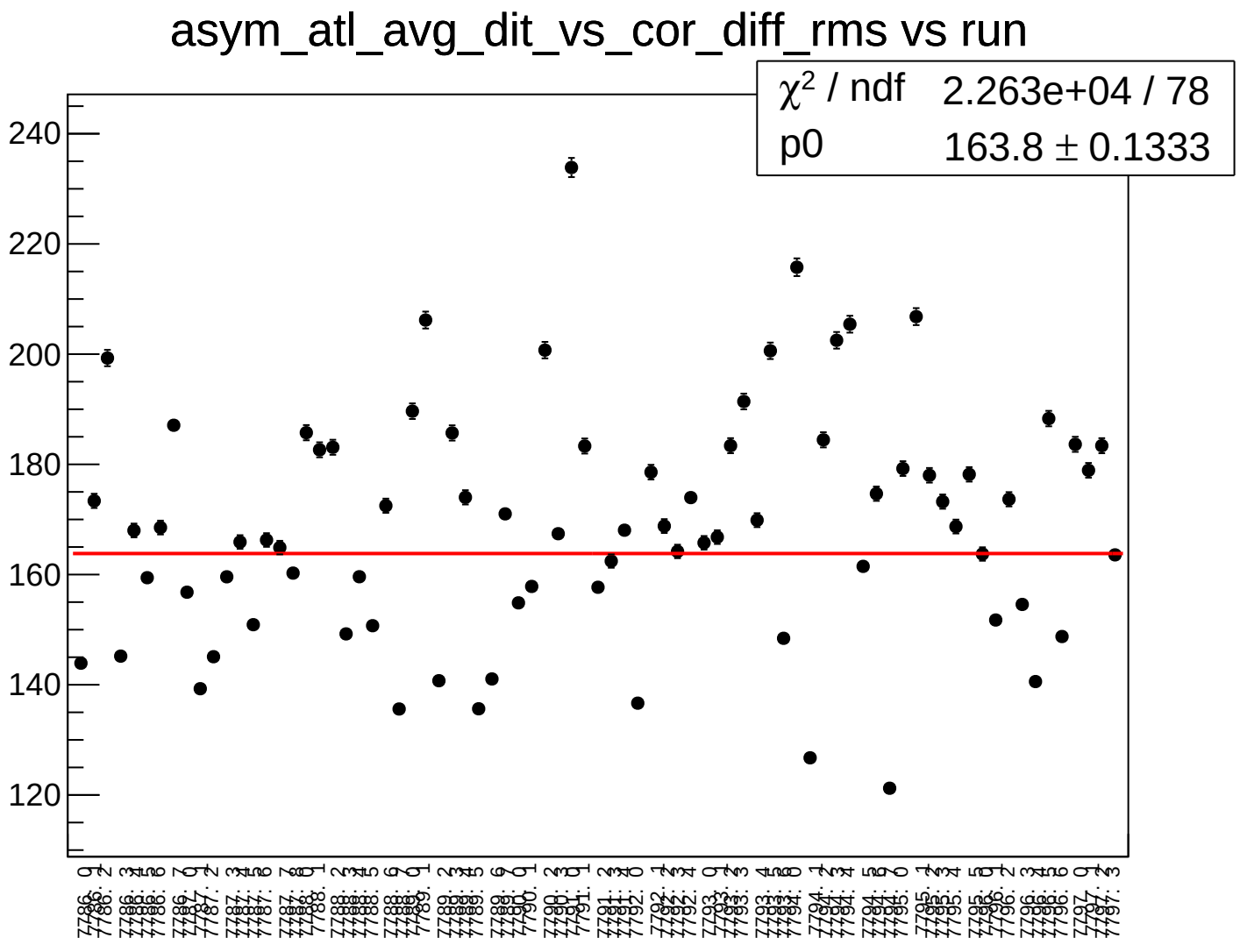

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.44 / 78
p0 7.562e−14 ± 5.073e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 79
Mean 64.75
Std Dev 13.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

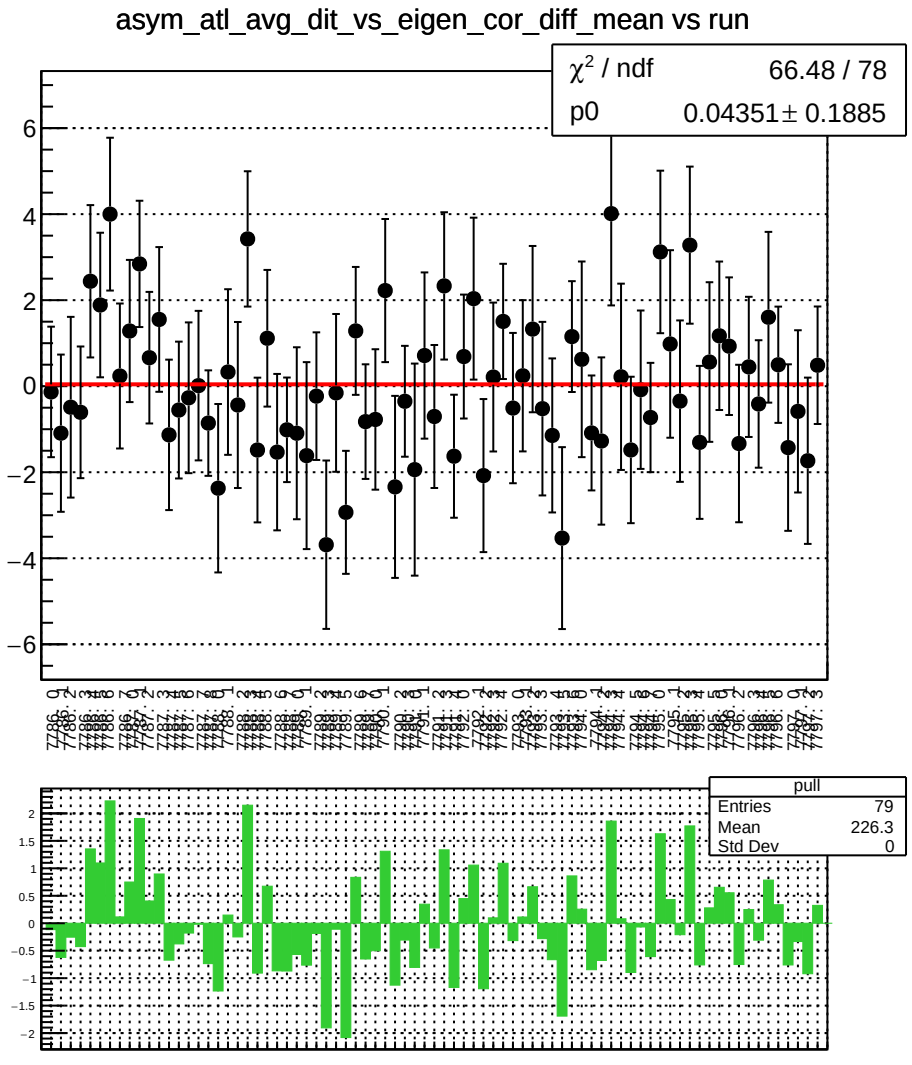

pull1D
Entries 79
Mean −0.06195
Std Dev 0.908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

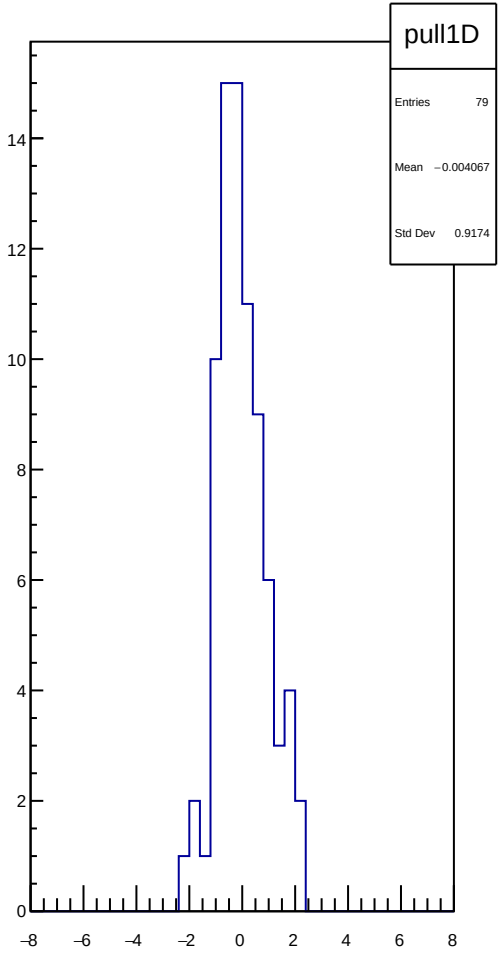

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.4e+05 / 78
p0 2.764e−10 ± 3.587e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

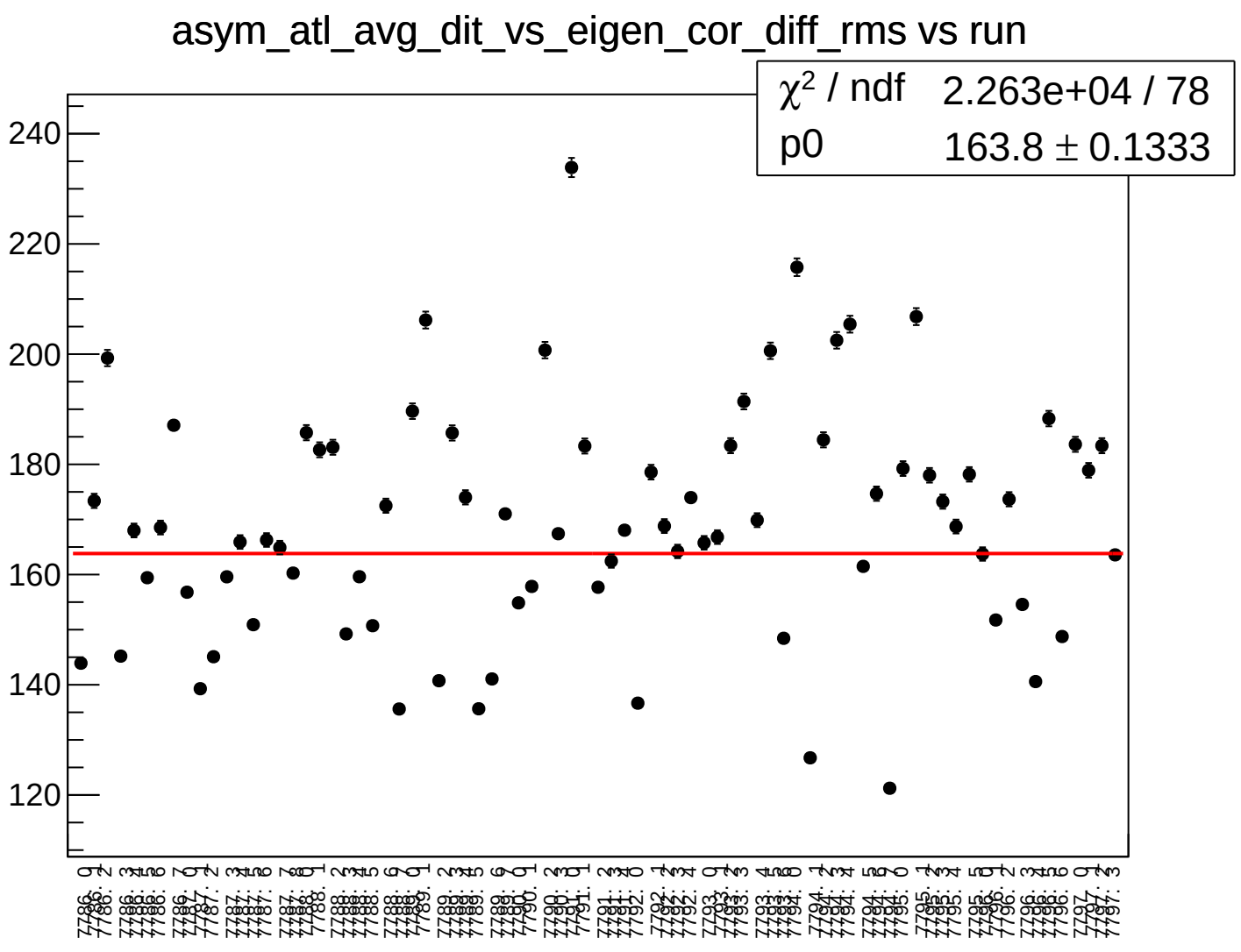

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.48 / 78
p0 0.04351 ± 0.1885
pull
Entries 79
Mean 226.3
Std Dev 0

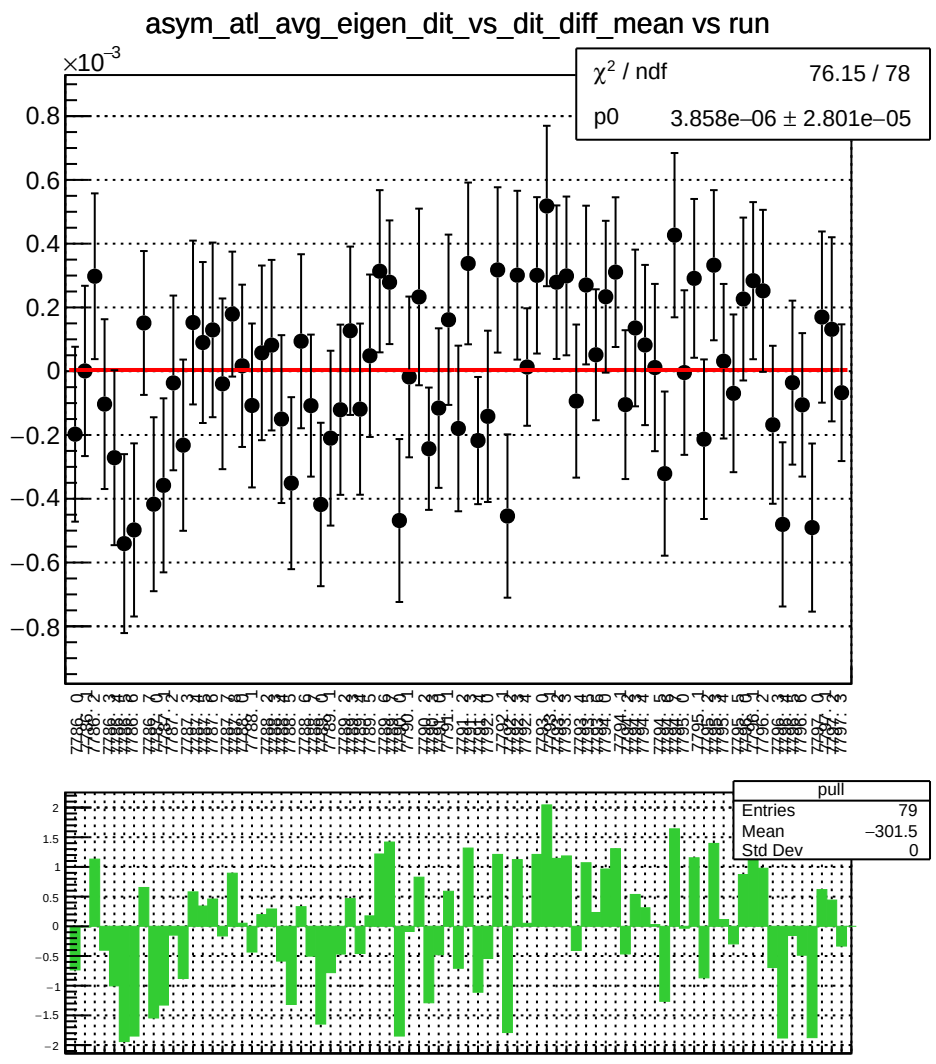

pull1D
Entries 79
Mean −0.004067
Std Dev 0.9174

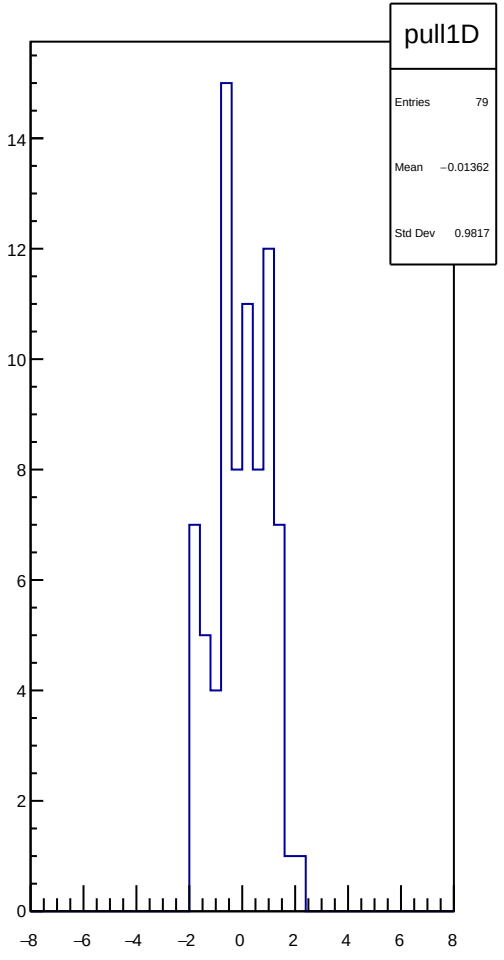

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.263e+04 / 78
p0 163.8 ± 0.1333
240
220
200
180
160
140
120

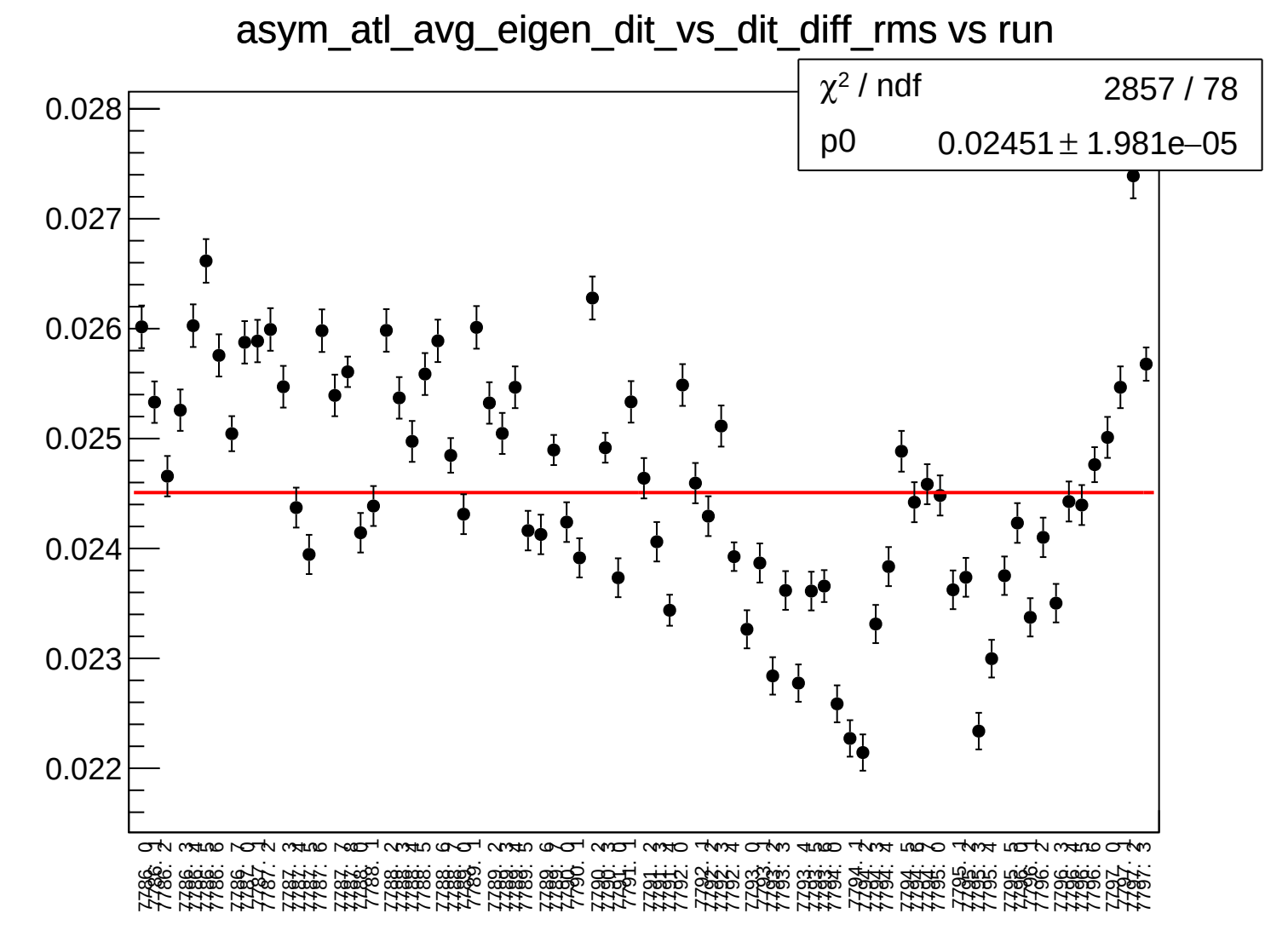

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.48 / 78
p0 0.04351± 0.1885
pull
Entries 79
Mean 226.3
Std Dev 0

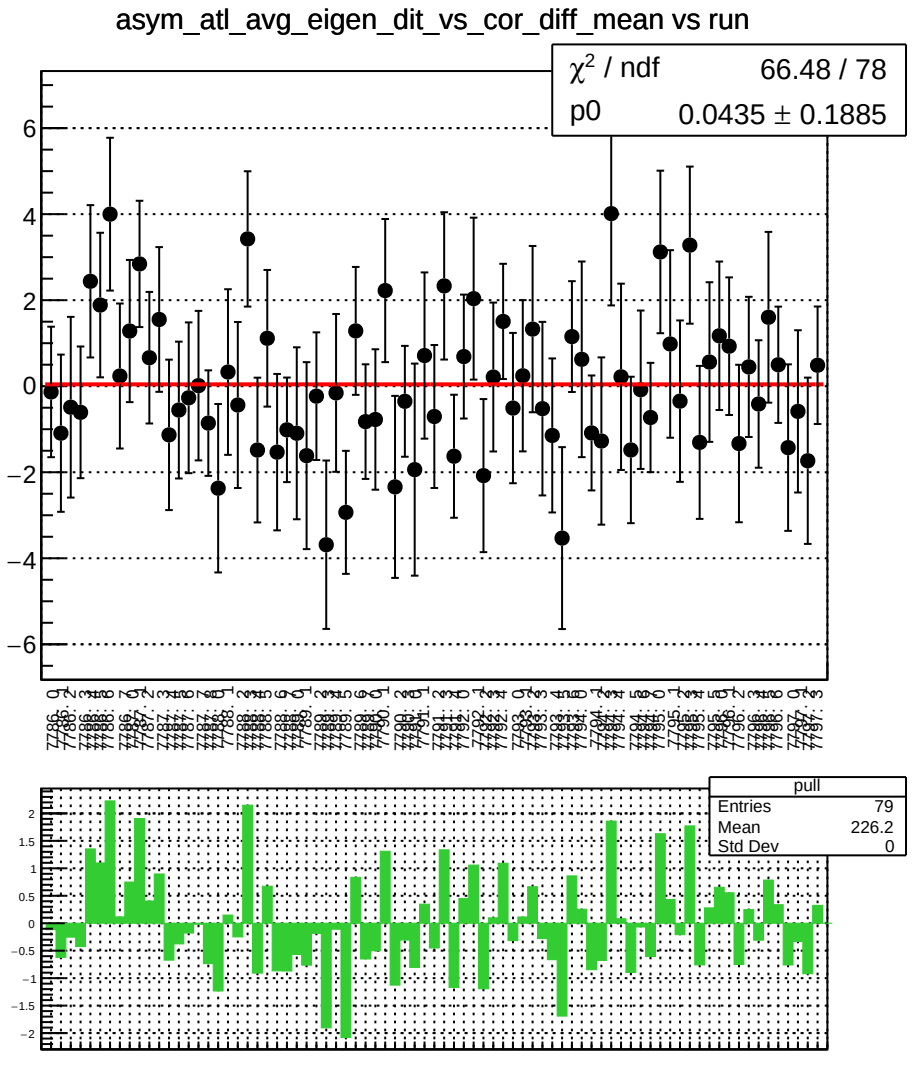

pull1D
Entries 79
Mean −0.004067
Std Dev 0.9174

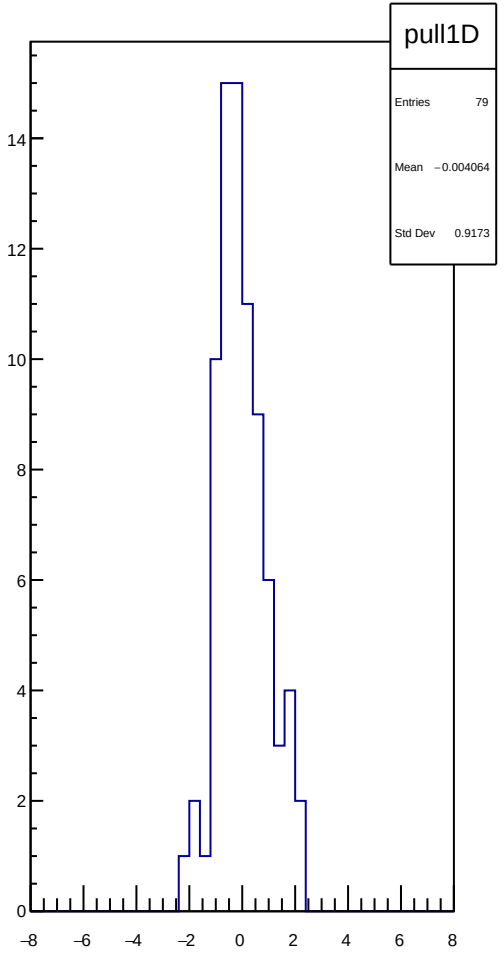

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.263e+04 / 78
p0 163.8 ± 0.1333
240
220
200
180
160
140
120

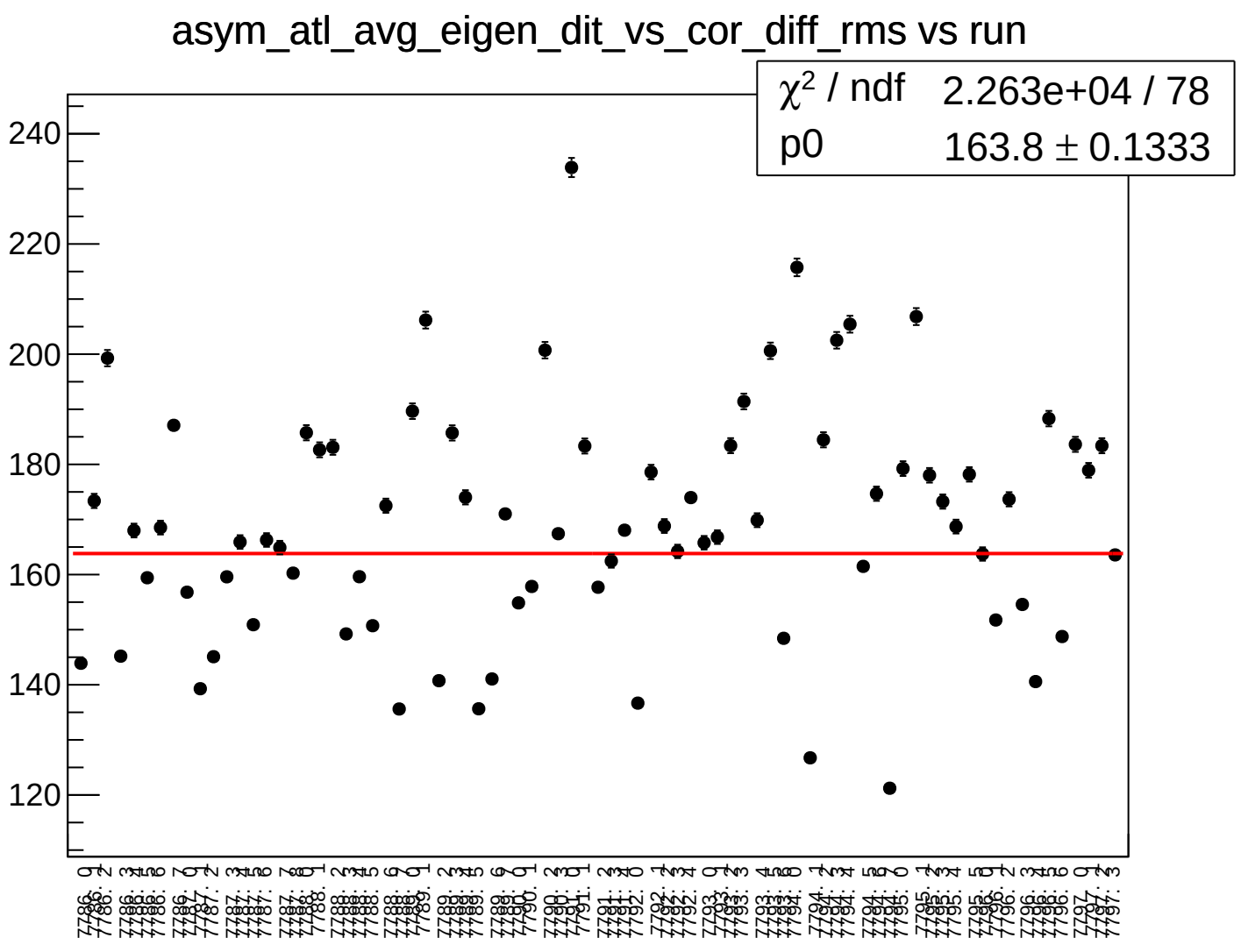

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.15 / 78
p0 3.858e−06 ± 2.801e−05
pull
Entries 79
Mean −301.5
Std Dev 0

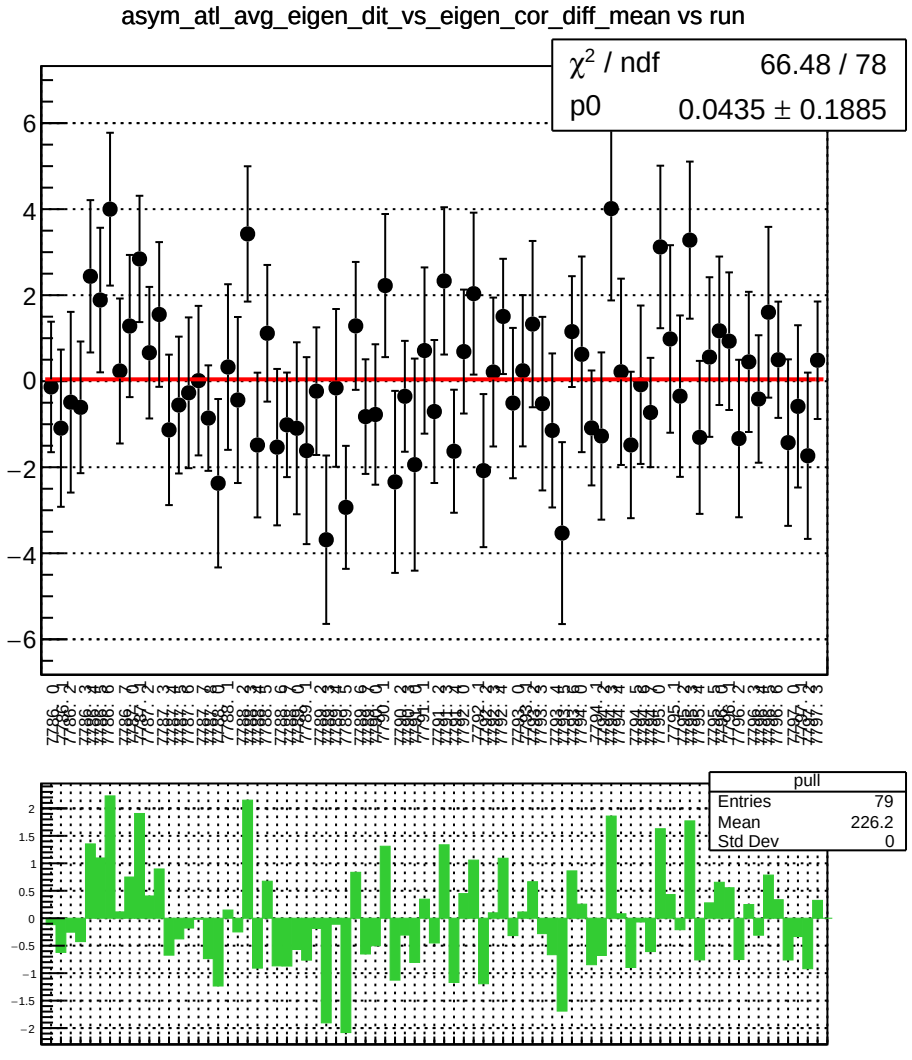

pull1D
Entries 79
Mean −0.01362
Std Dev 0.9817

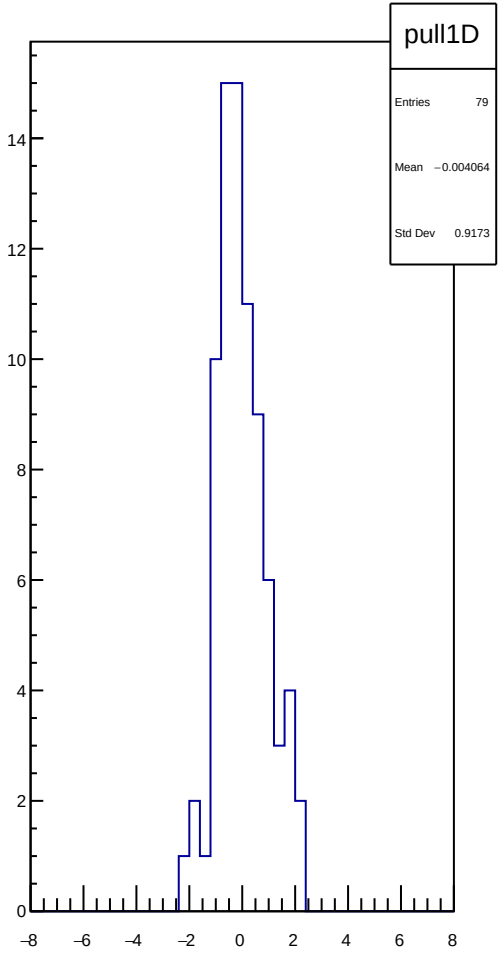

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2857 / 78
p0 0.02451 ± 1.981e−05
0.028
0.027
0.026
0.025
0.024
0.023
0.022

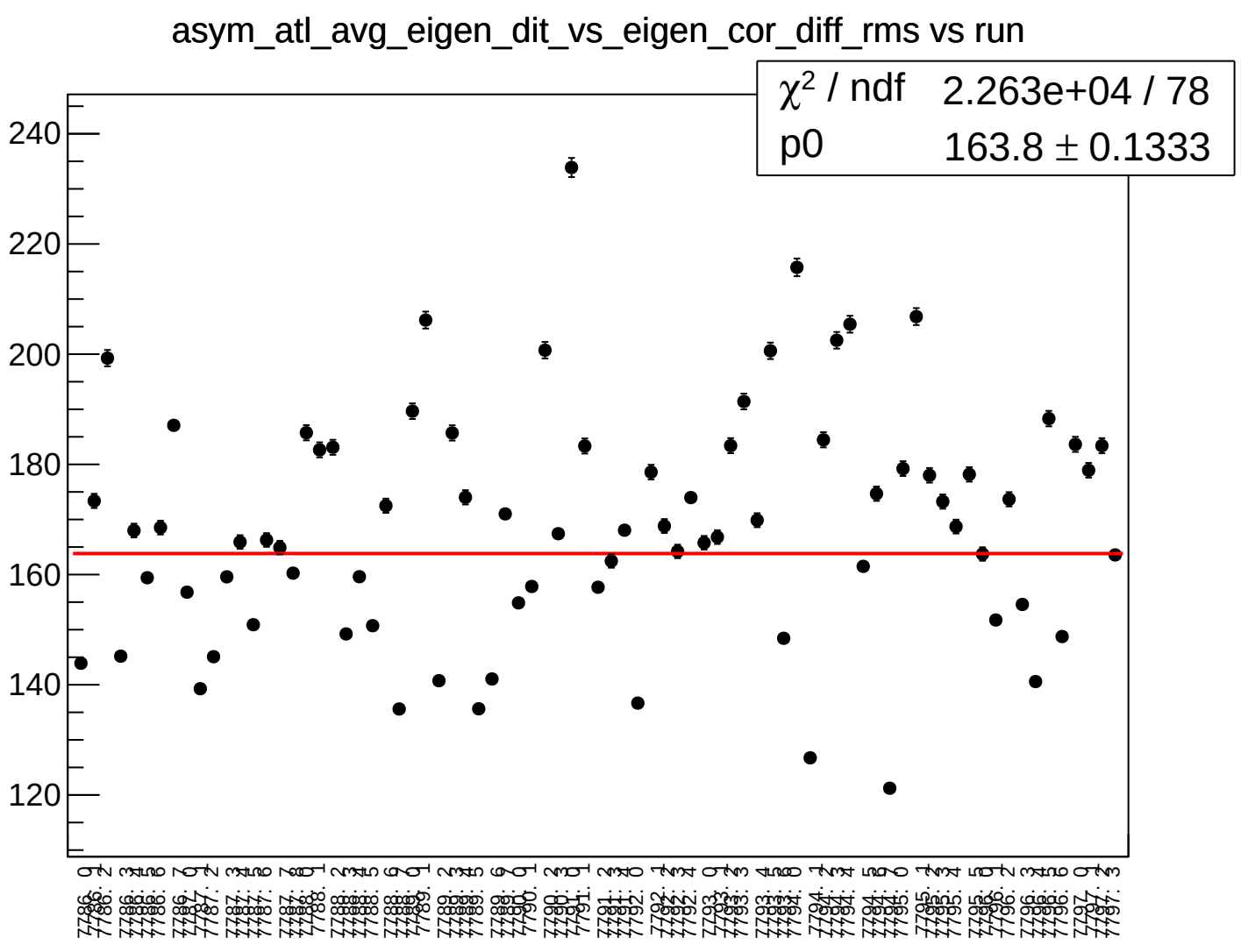

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.48 / 78
p0 0.0435 ± 0.1885
pull
Entries 79
Mean 226.2
Std Dev 0

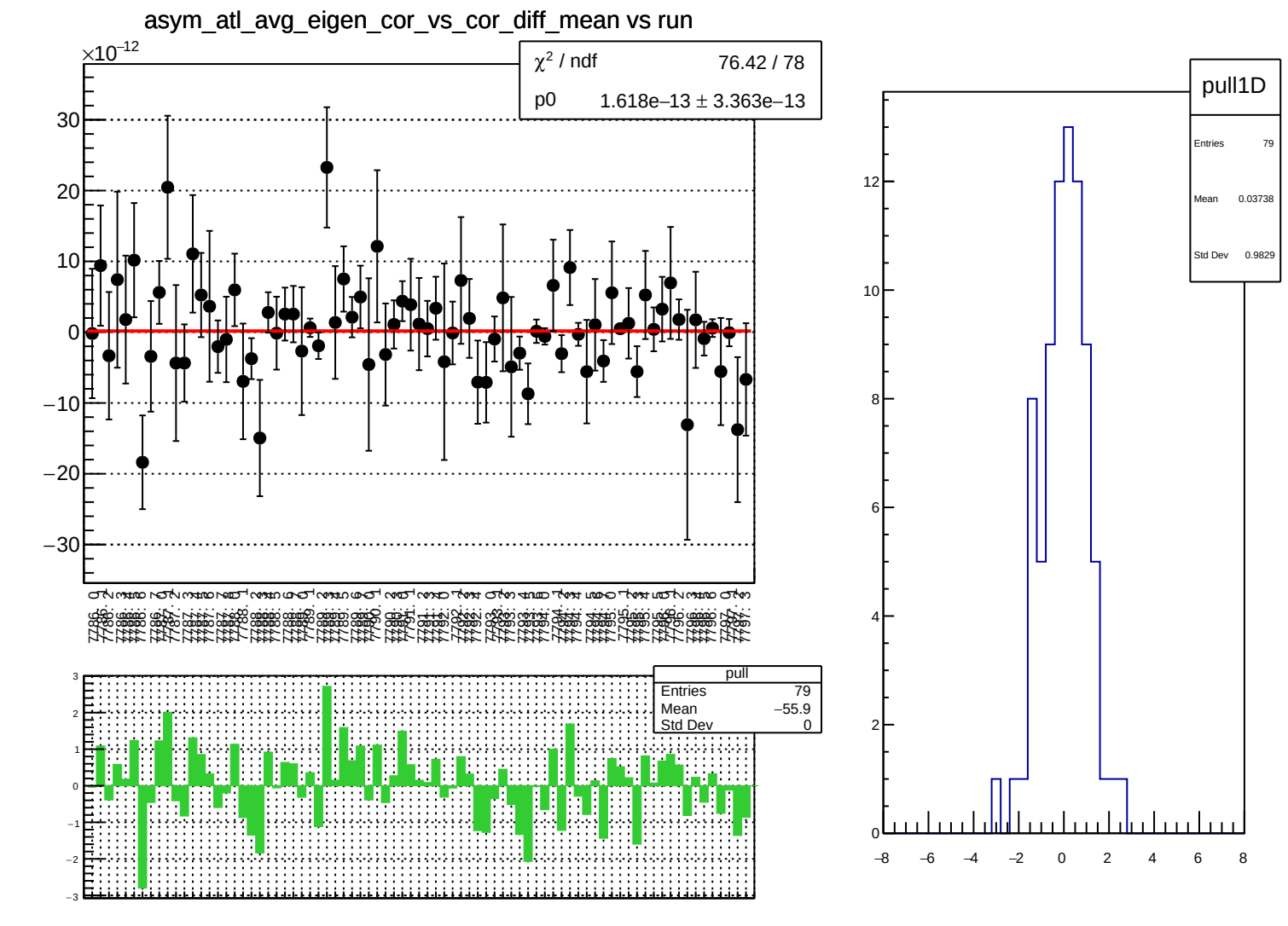

pull1D
Entries 79
Mean −0.004064
Std Dev 0.9173

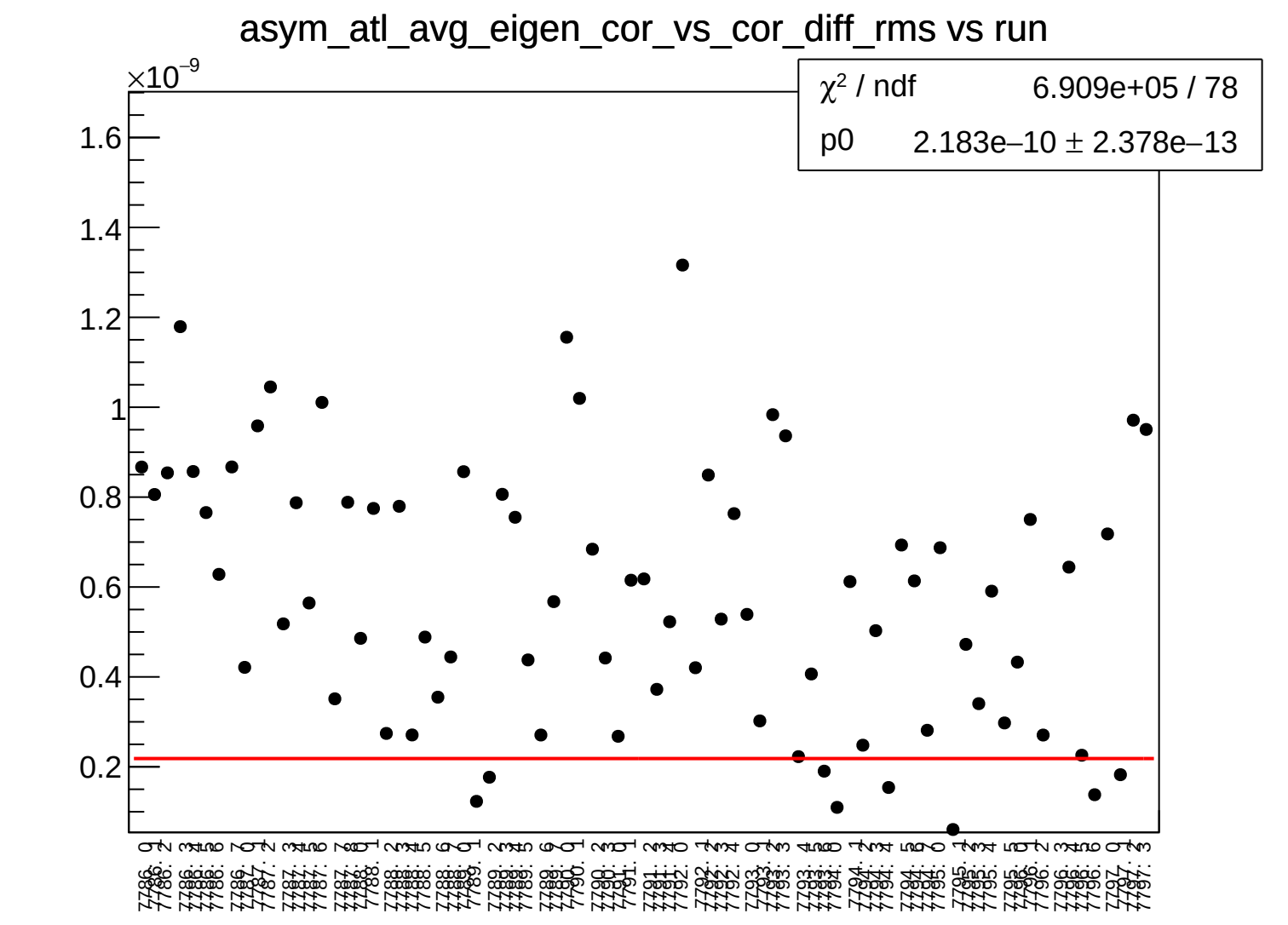

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.263e+04 / 78
p0 163.8 ± 0.1333
240
220
200
180
160
140
120

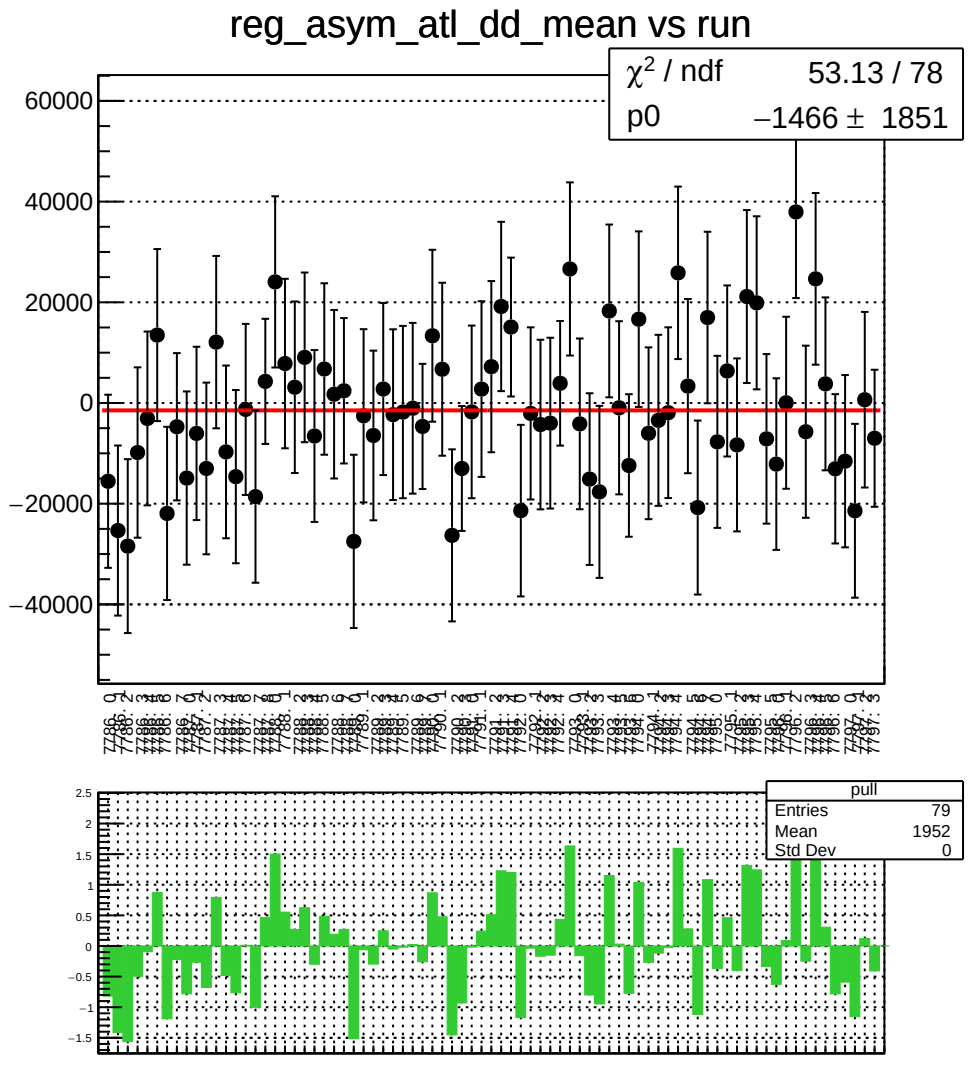

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.48 / 78
p0 0.0435 ± 0.1885
pull
Entries 79
Mean 226.2
Std Dev 0

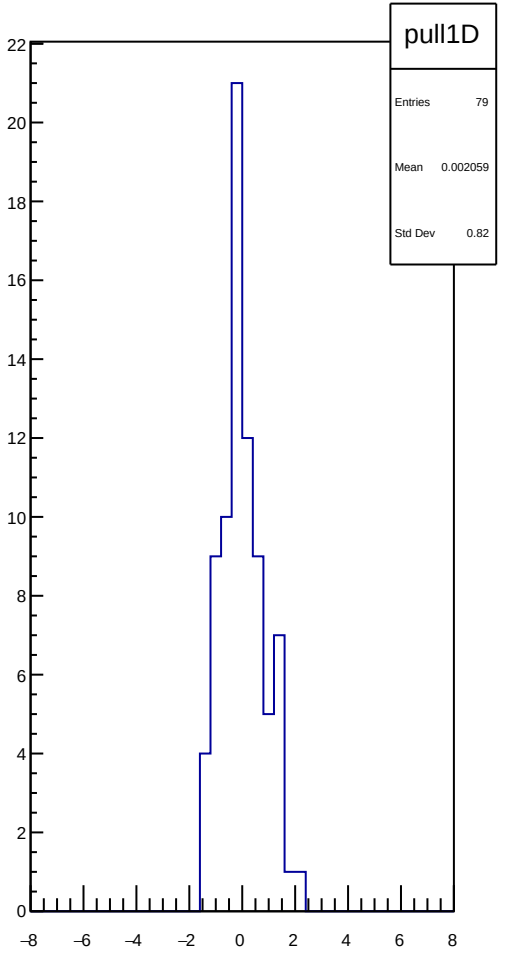

pull1D
Entries 79
Mean −0.004064
Std Dev 0.9173

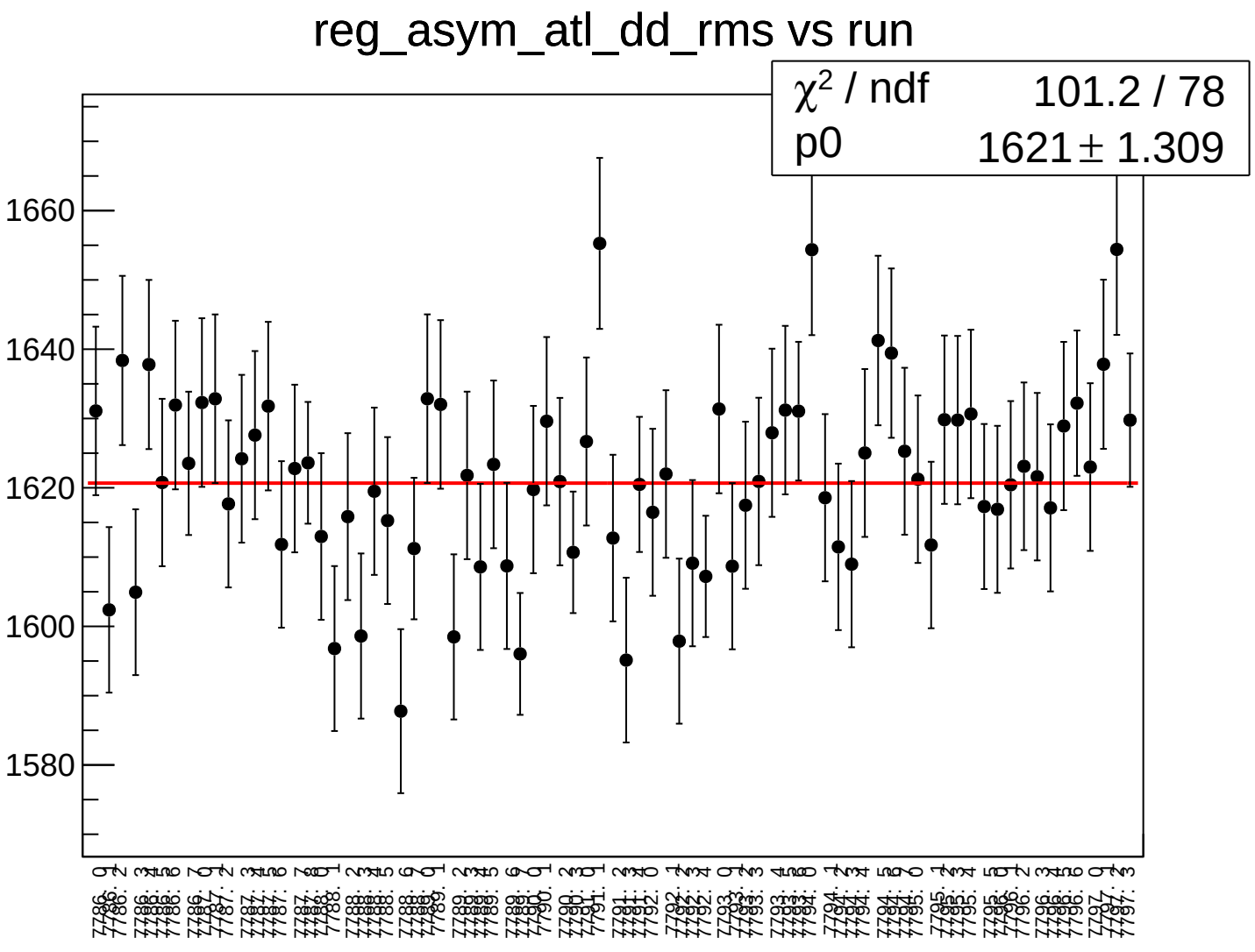

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.263e+04 / 78
p0 163.8 ± 0.1333
240
220
200
180
160
140
120

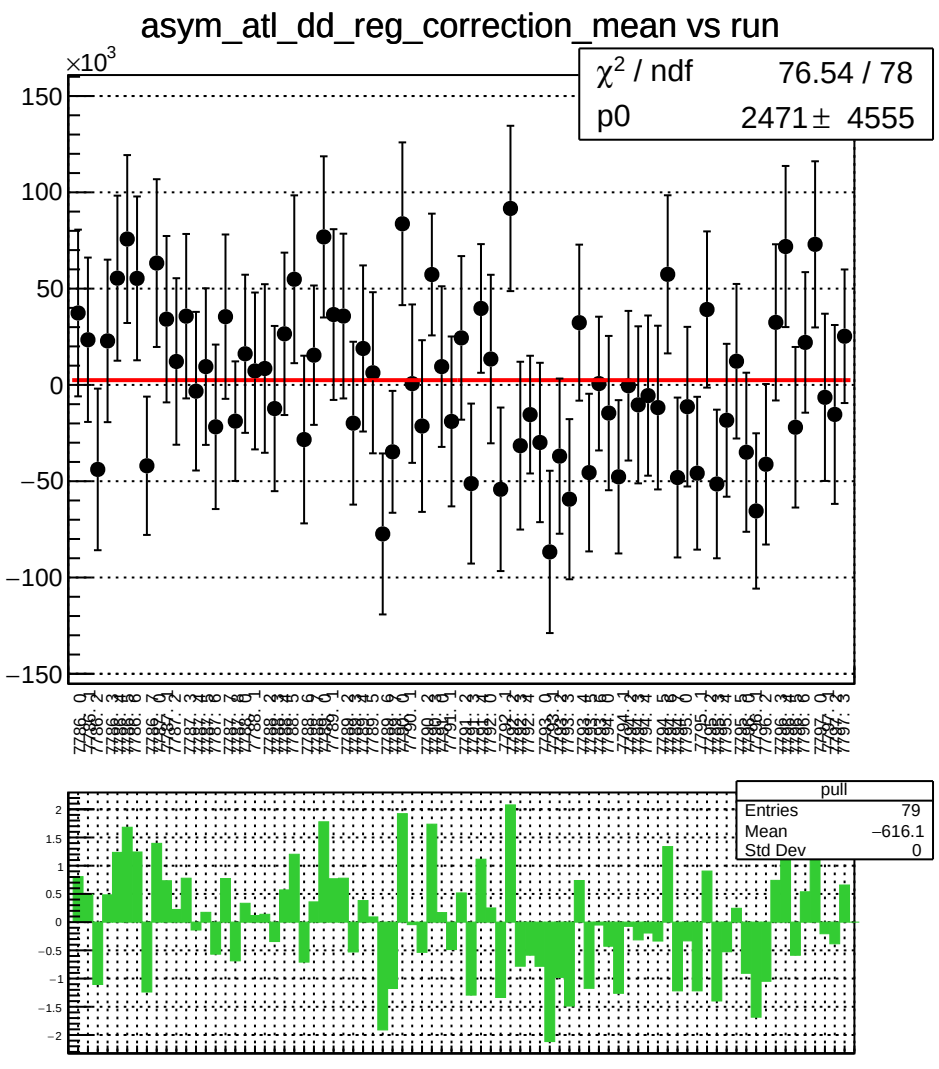

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.42 / 78
p0 1.618e−13 ± 3.363e−13
pull
Entries 79
Mean −55.9
Std Dev 0
pull1D
Entries 79
Mean 0.03738
Std Dev 0.9829

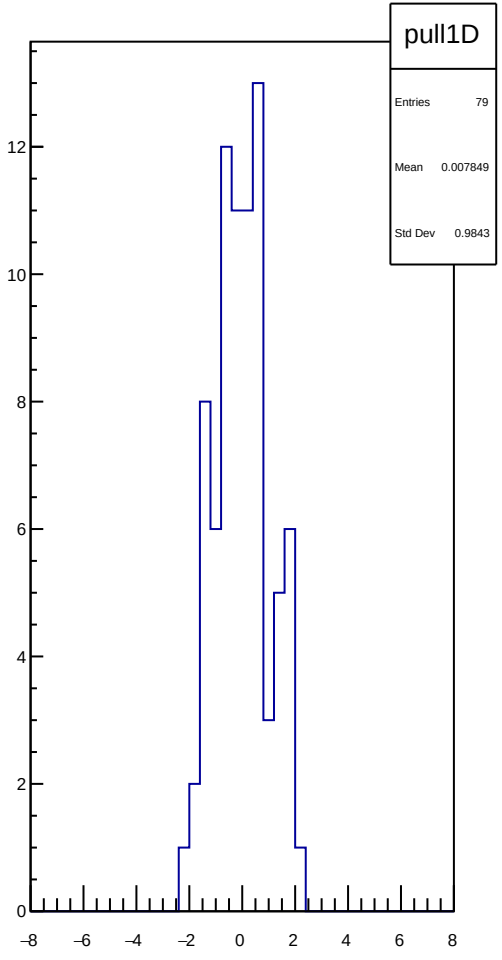

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.909e+05 / 78
p0 2.183e−10 ± 2.378e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

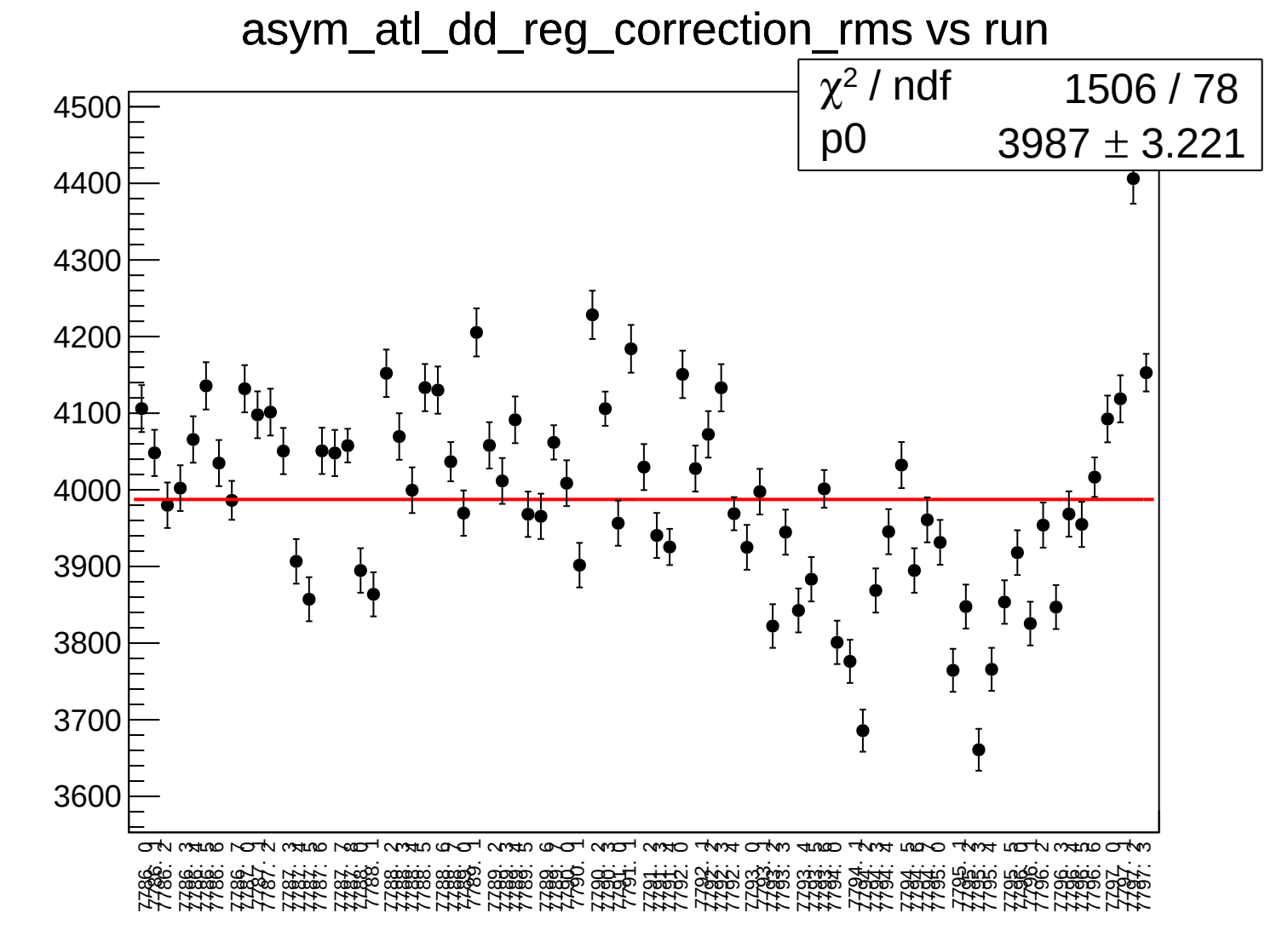

reg_asym_atl_dd_mean vs run
χ² / ndf 53.13 / 78
p0 −1466 ± 1851
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 1952
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

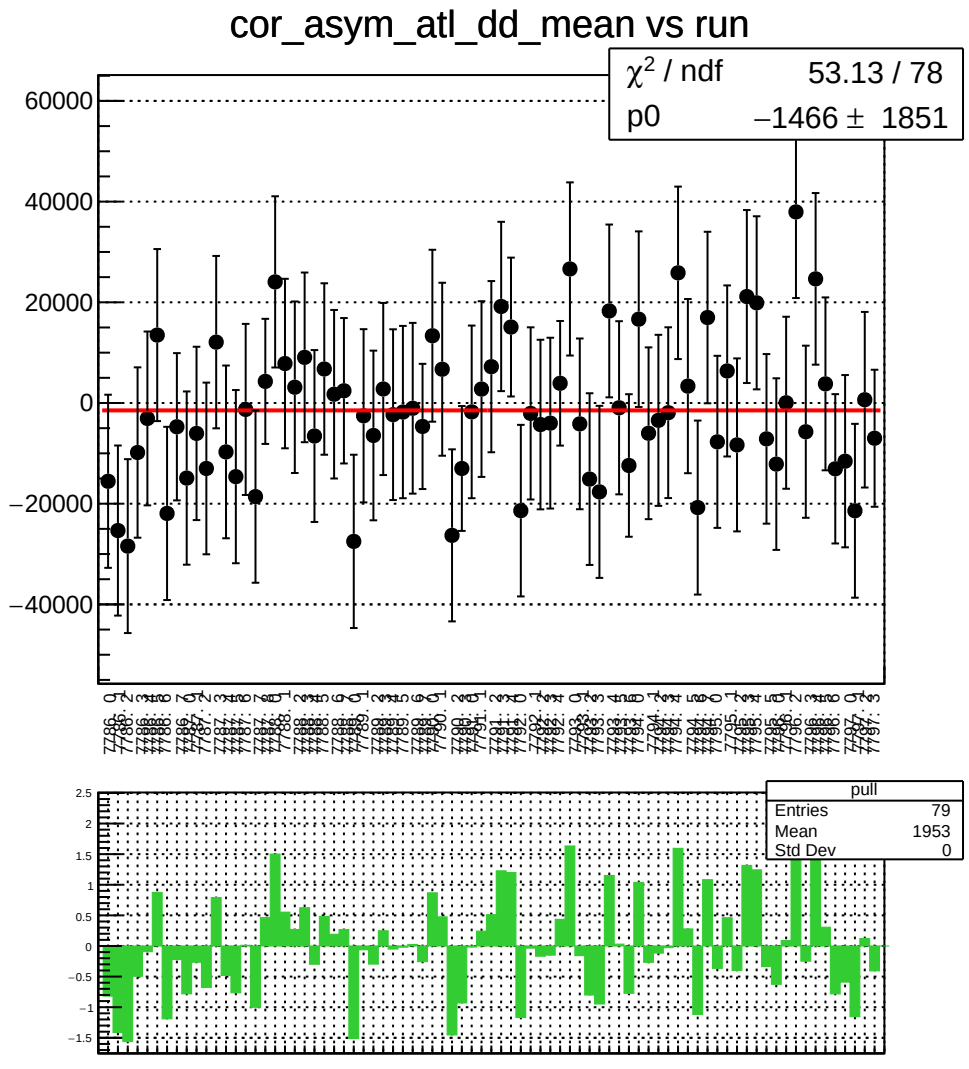

pull1D
Entries 79
Mean 0.002059
Std Dev 0.82
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

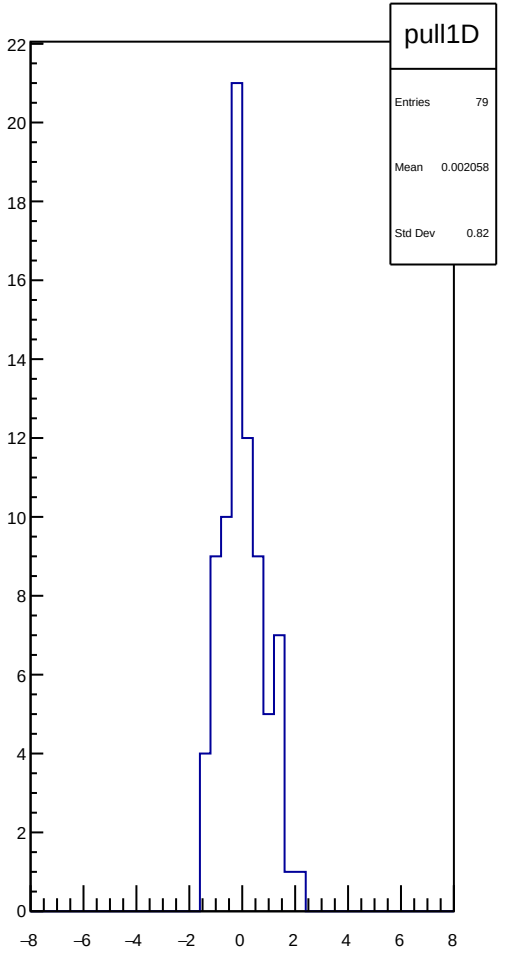

reg_asym_atl_dd_rms vs run
χ² / ndf 101.2 / 78
p0 1621 ± 1.309
1660
1640
1620
1600
1580

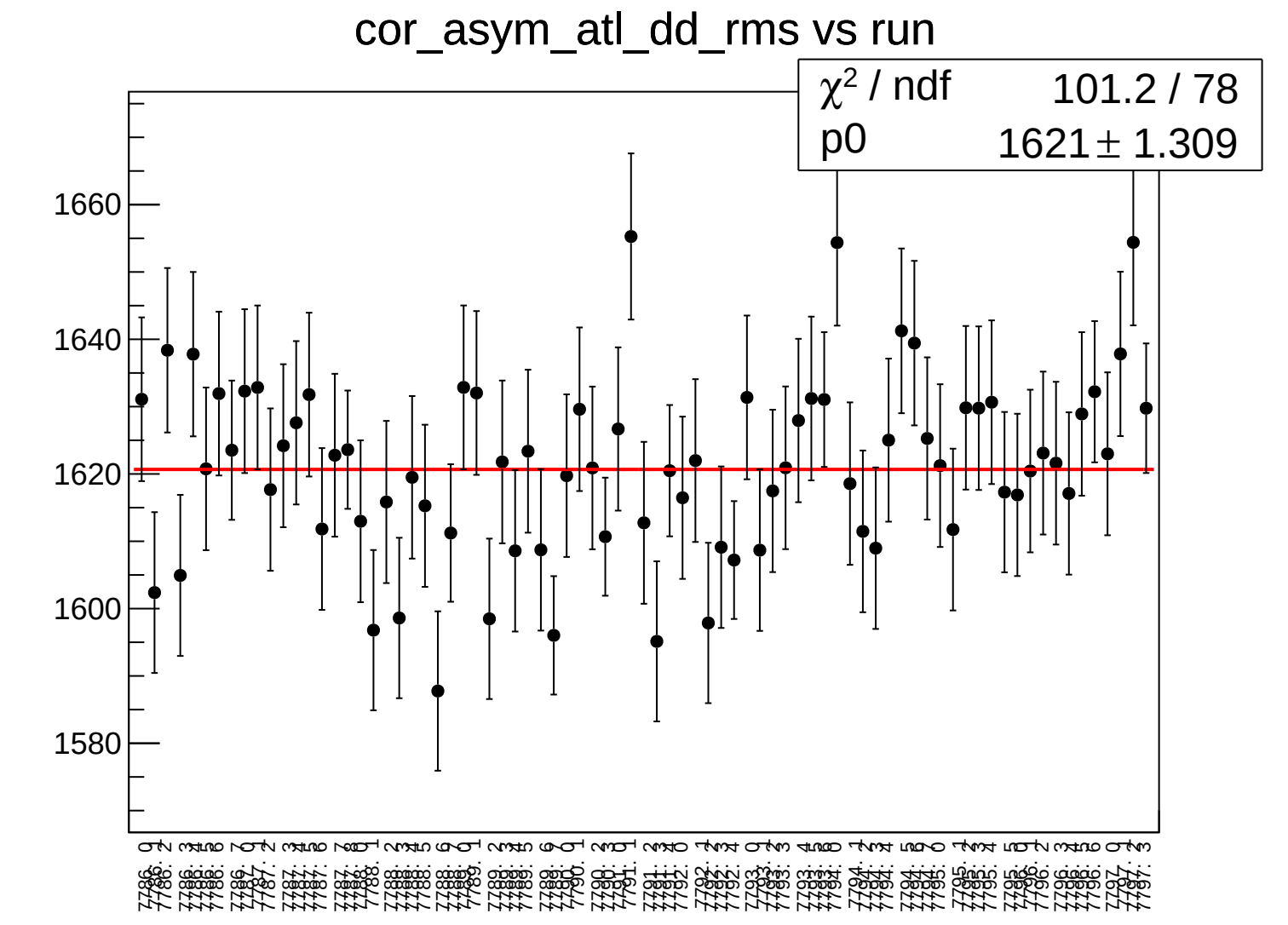

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 76.54 / 78
p0 2471 ± 4555
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −616.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

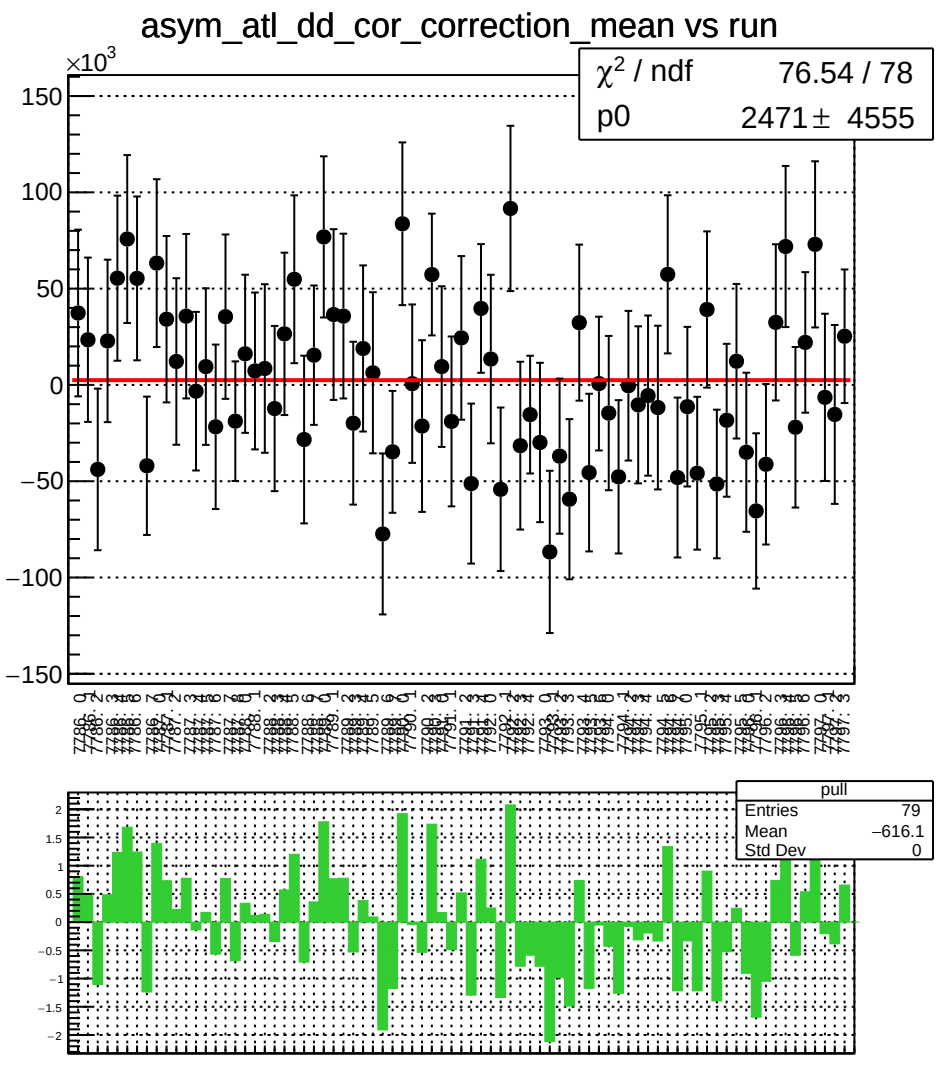

pull1D
Entries 79
Mean 0.007849
Std Dev 0.9843
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

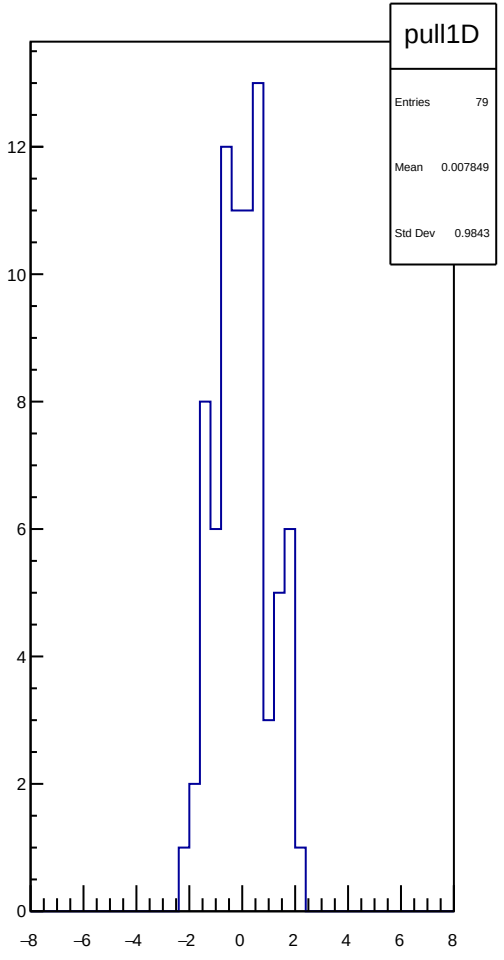

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1506 / 78
p0 3987 ± 3.221
4500
4400
4300
4200
4100
4000
3900
3800
3700
3600

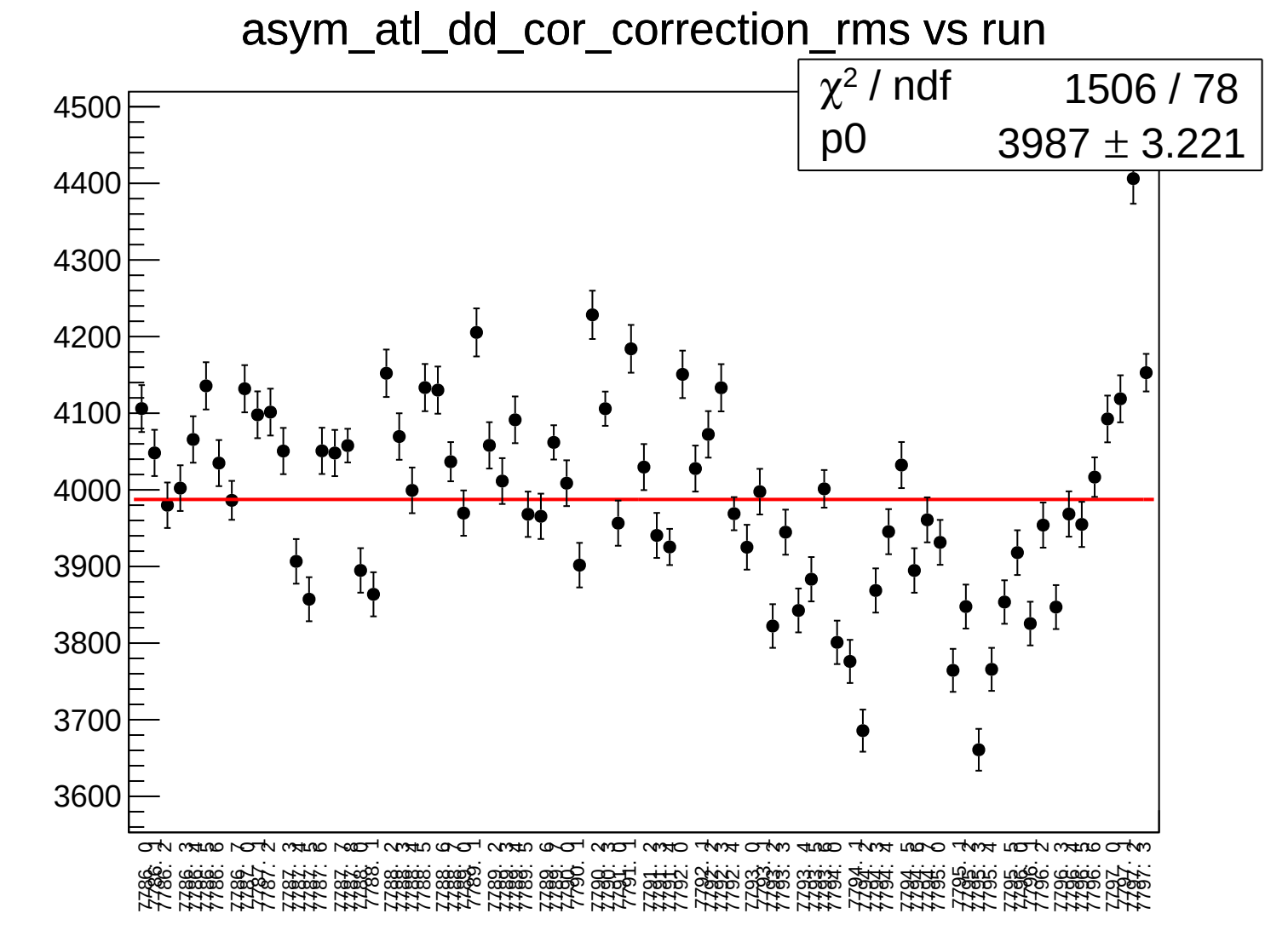

cor_asym_atl_dd_mean vs run
χ² / ndf 53.13 / 78
p0 −1466 ± 1851
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 1953
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

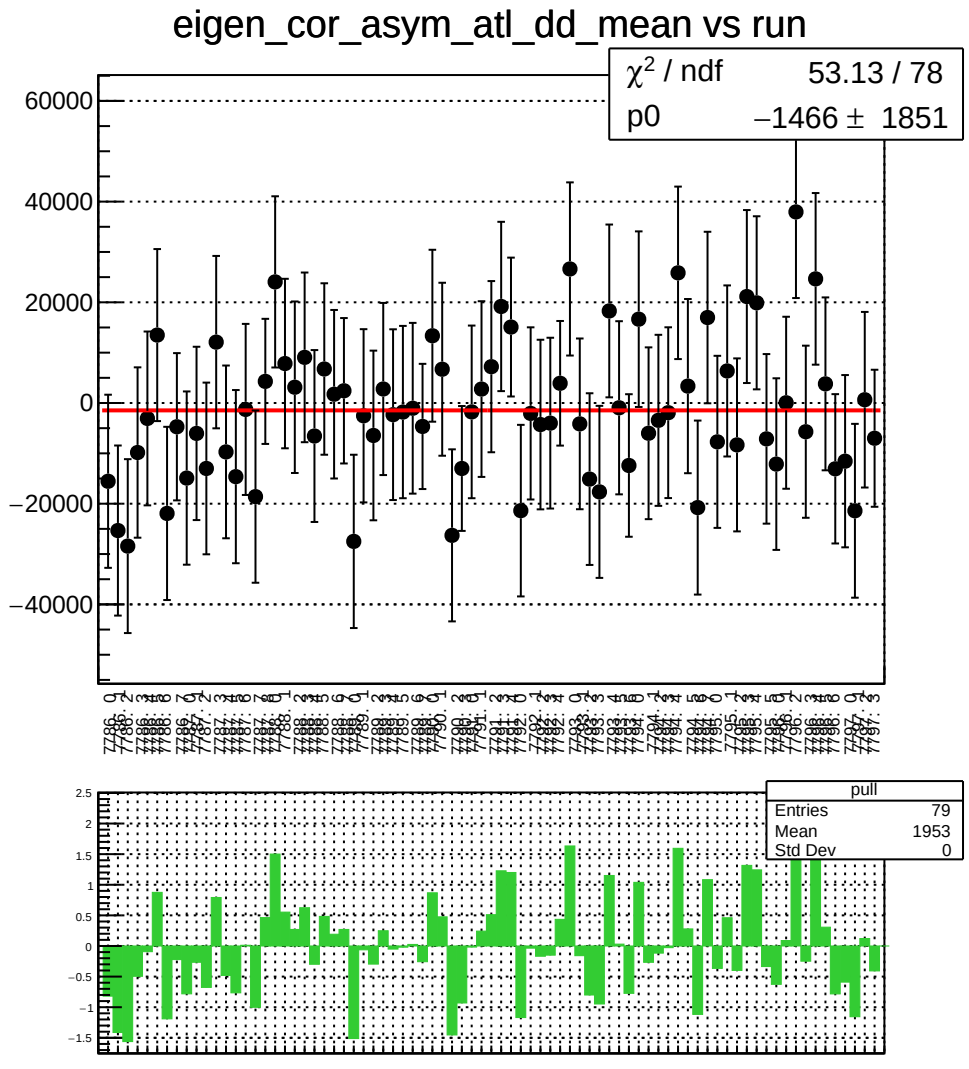

pull1D
Entries 79
Mean 0.002058
Std Dev 0.82
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

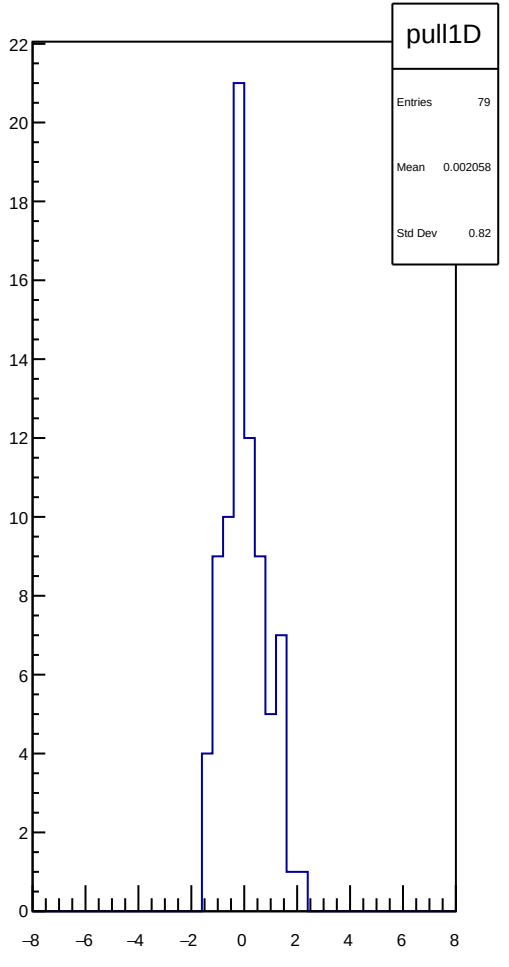

cor_asym_atl_dd_rms vs run
χ^2 / ndf 101.2 / 78
p0 1621 ± 1.309
1660
1640
1620
1600
1580

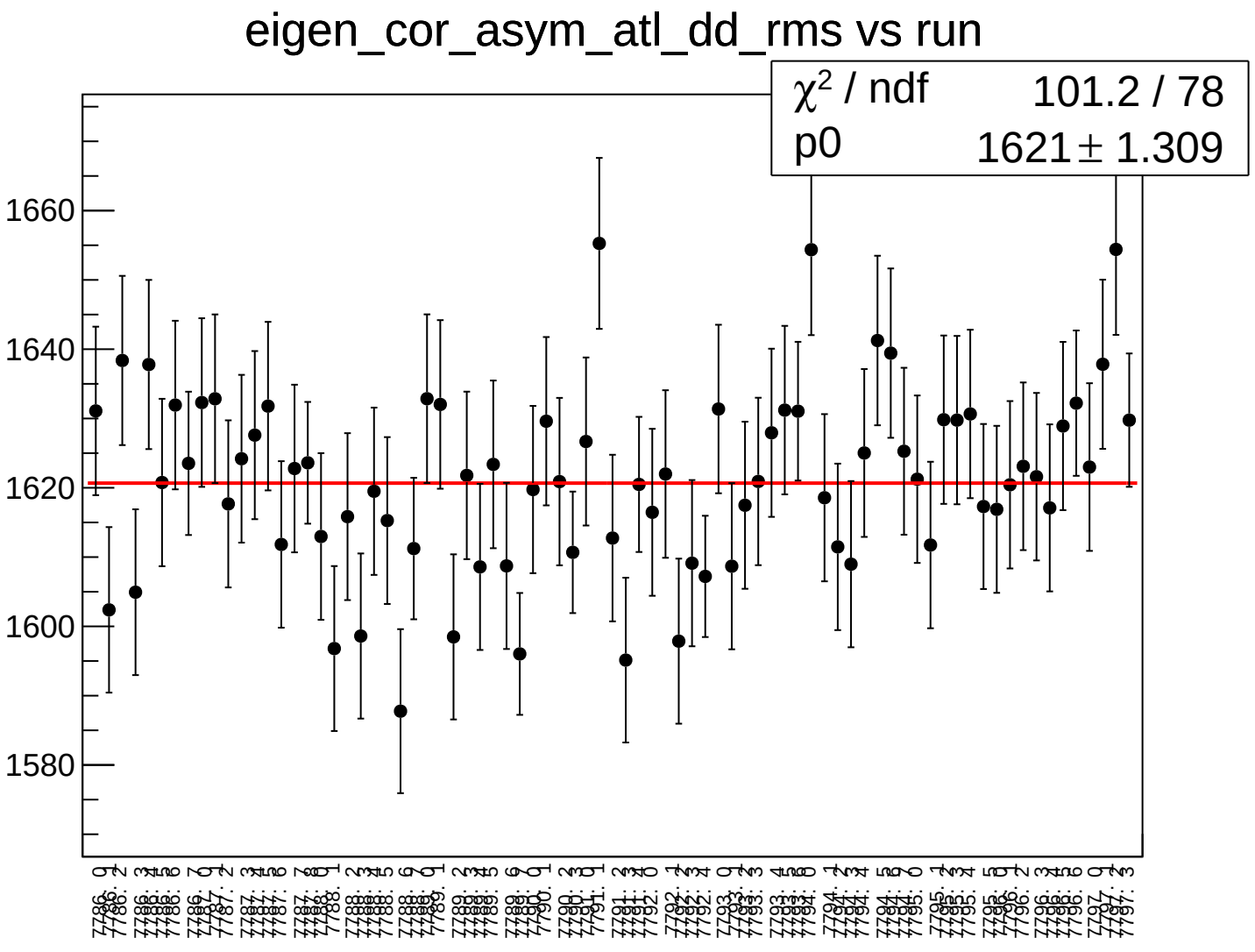

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 76.54 / 78
p0 2471 ± 4555
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −616.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

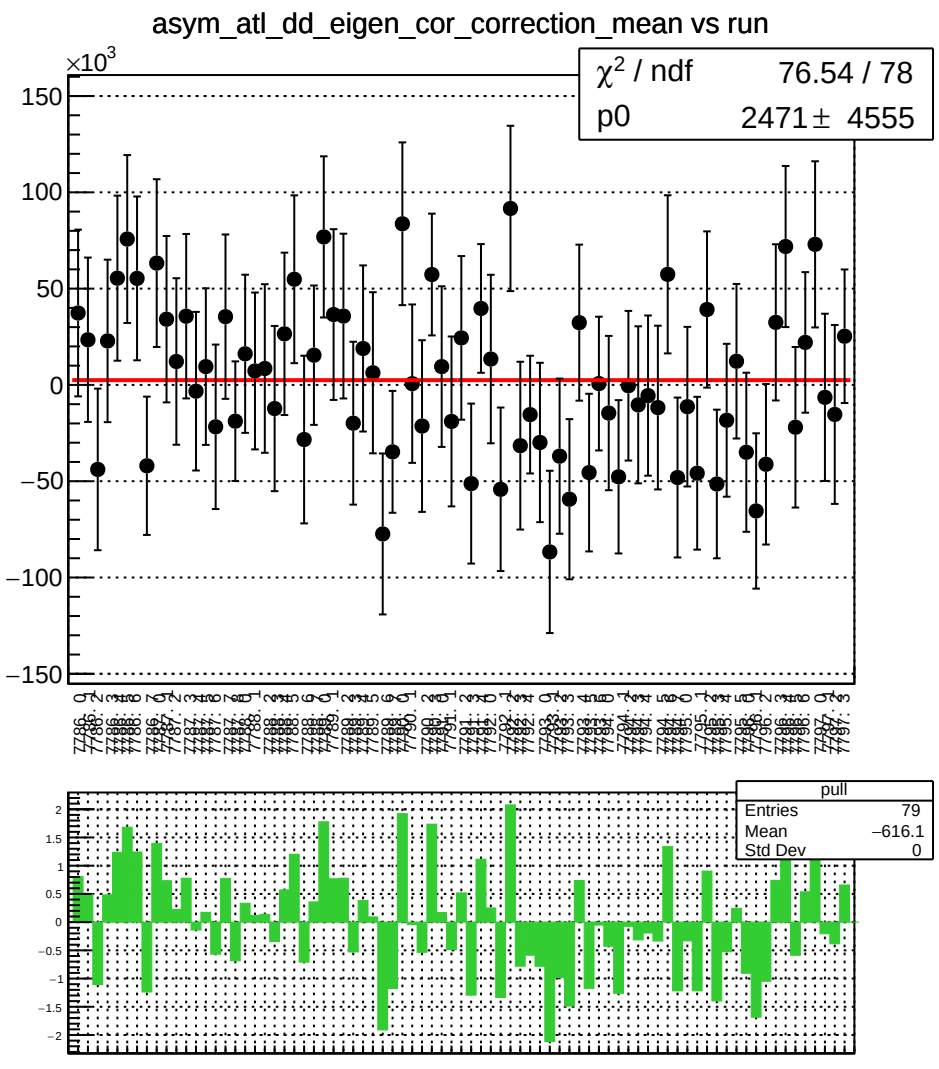

pull1D
Entries 79
Mean 0.007849
Std Dev 0.9843
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

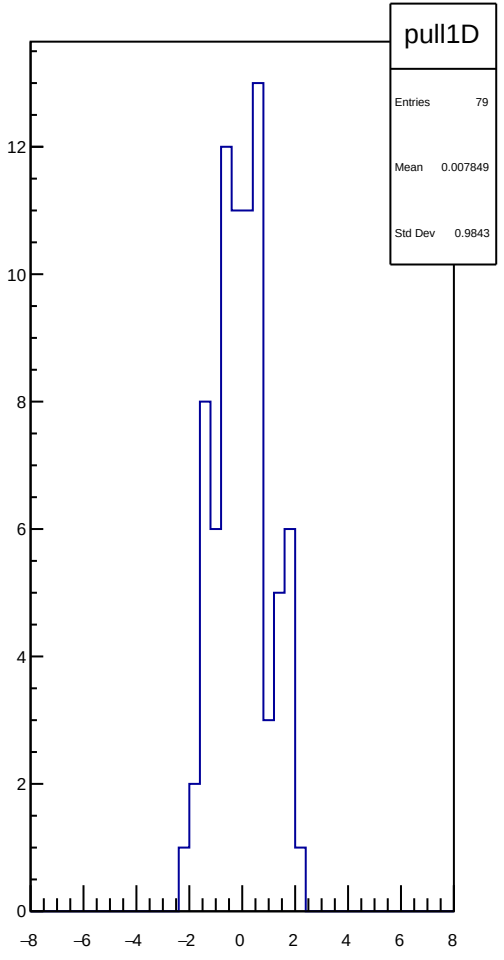

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1506 / 78
p0 3987 ± 3.221
4500
4400
4300
4200
4100
4000
3900
3800
3700
3600

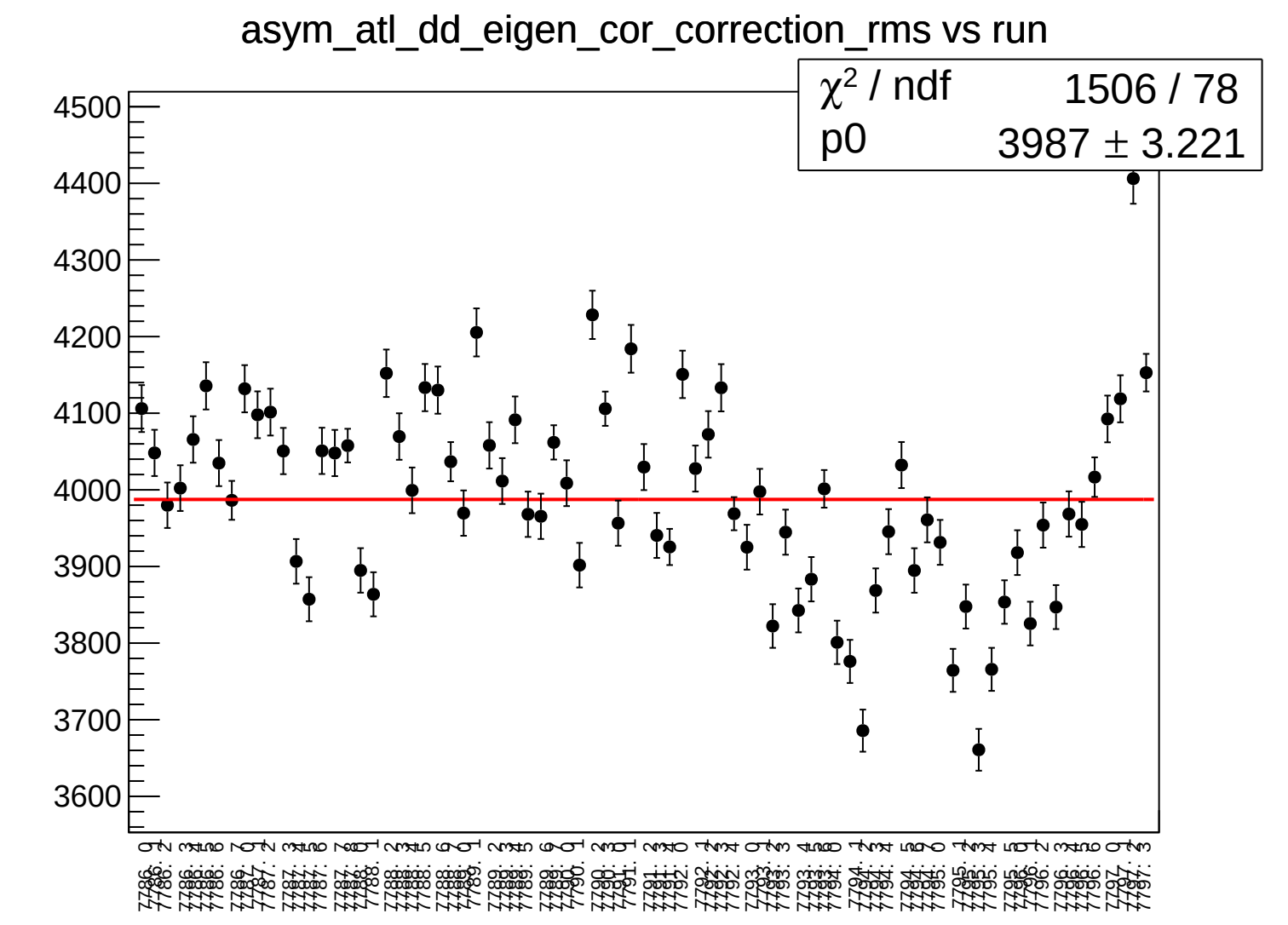

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 53.13 / 78
p0 −1466 ± 1851
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 1953
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

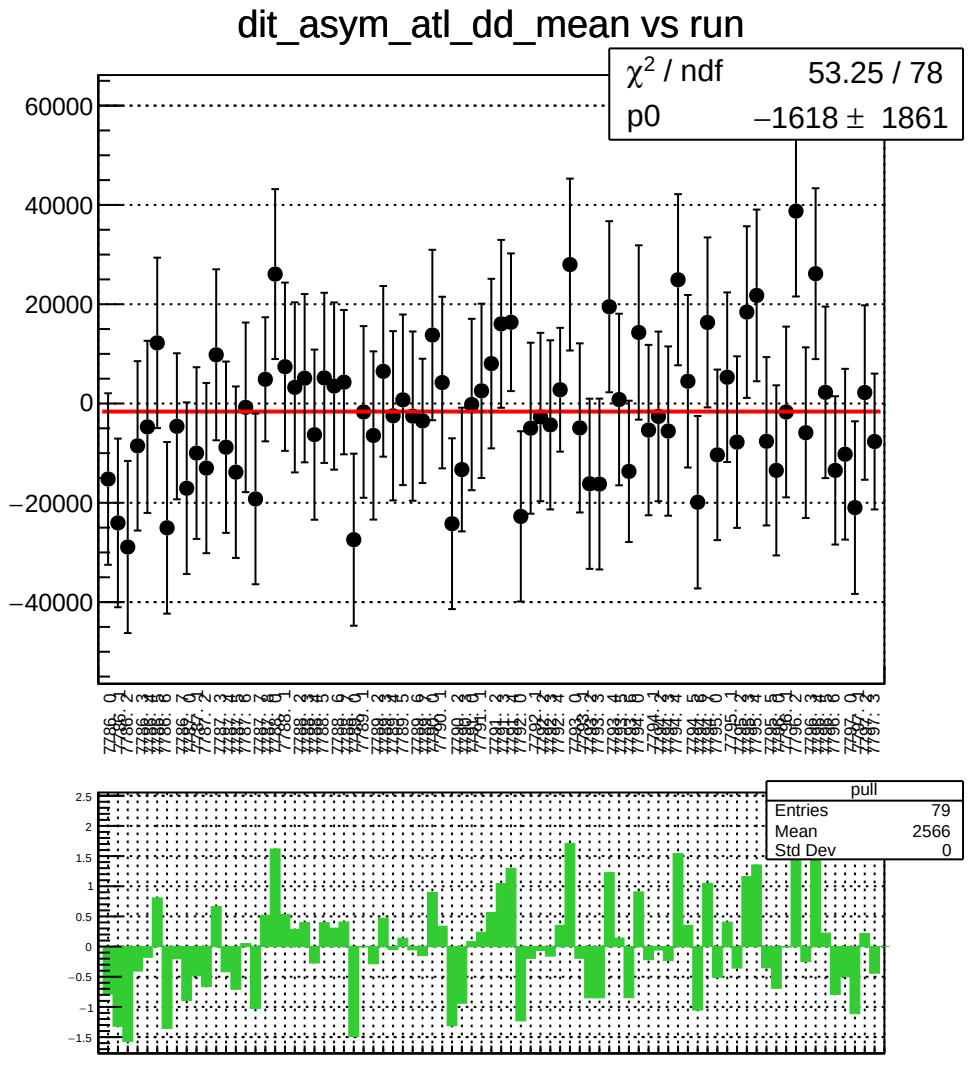

pull1D
Entries 79
Mean 0.002058
Std Dev 0.82
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

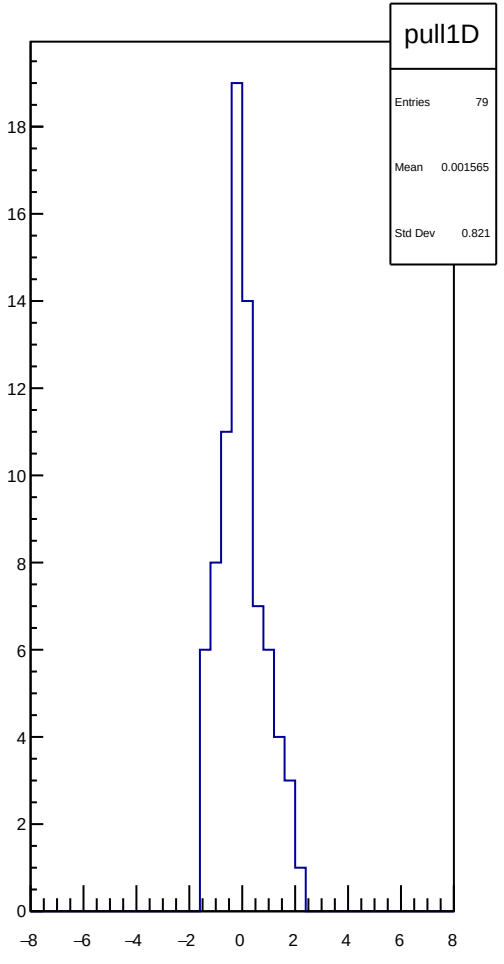

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 101.2 / 78
p0 1621 ± 1.309
1660
1640
1620
1600
1580

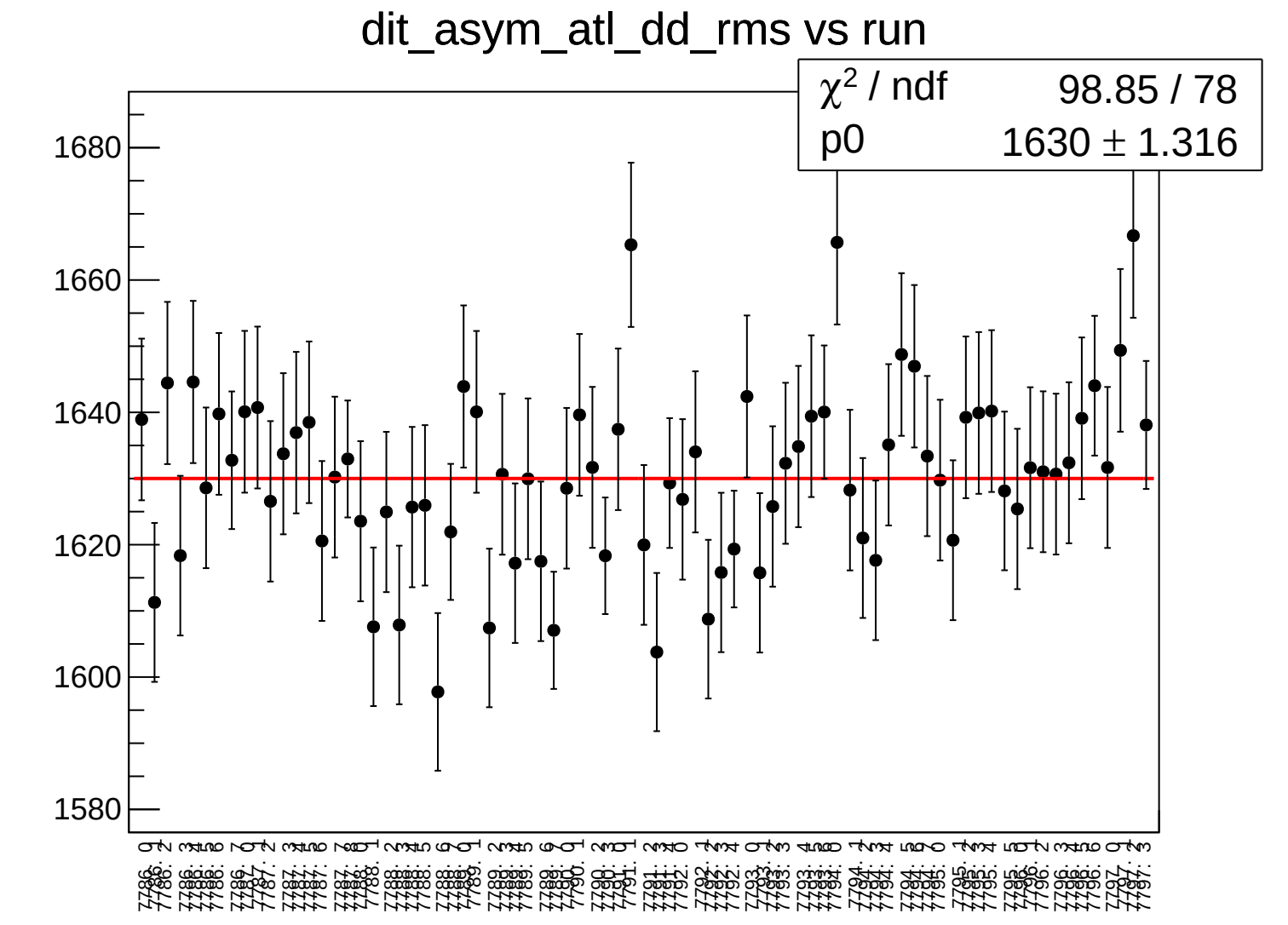

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.54 / 78
p0 2471 ± 4555
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −616.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

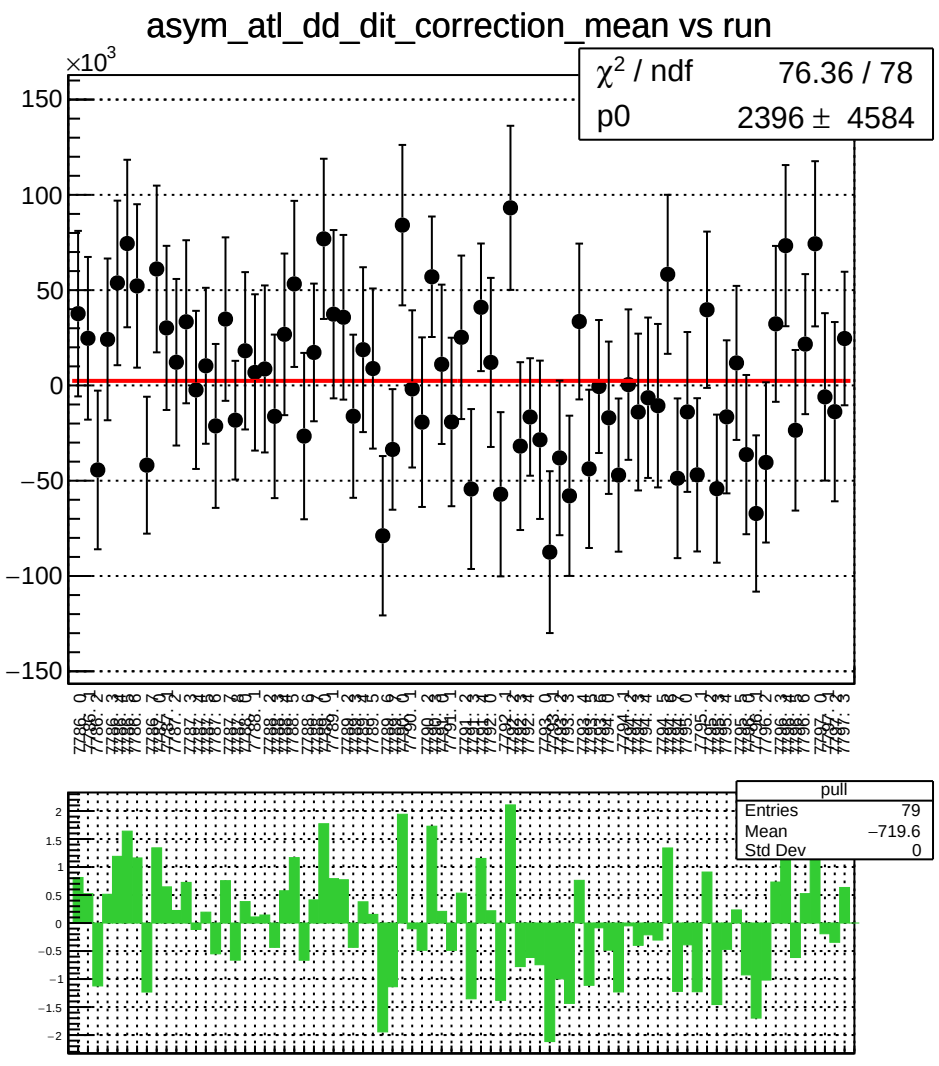

pull1D
Entries 79
Mean 0.007849
Std Dev 0.9843
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

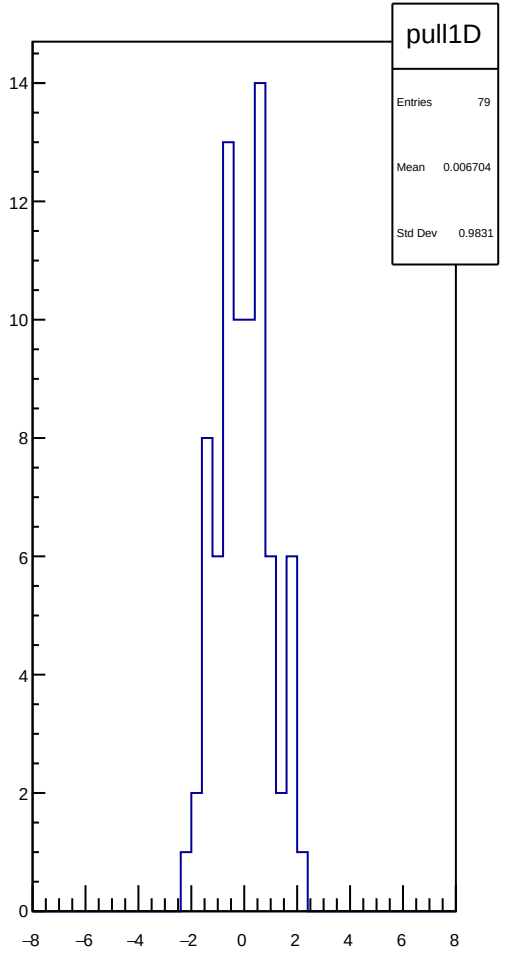

asym_atl_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1506 / 78
p0 3987 ± 3.221
4500
4400
4300
4200
4100
4000
3900
3800
3700
3600

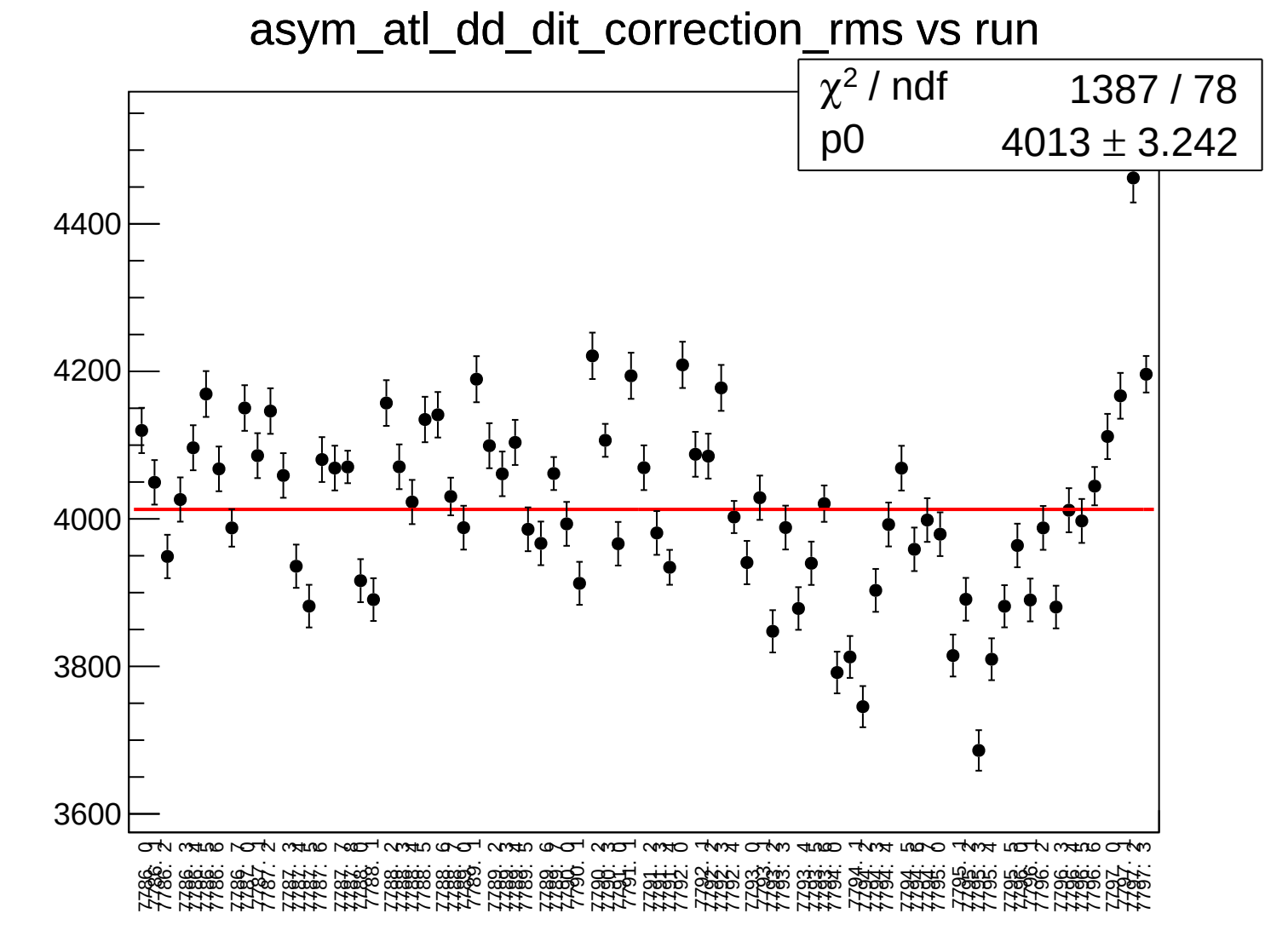

dit_asym_atl_dd_mean vs run
χ² / ndf 53.25 / 78
p0 −1618 ± 1861
pull
Entries 79
Mean 2566
Std Dev 0

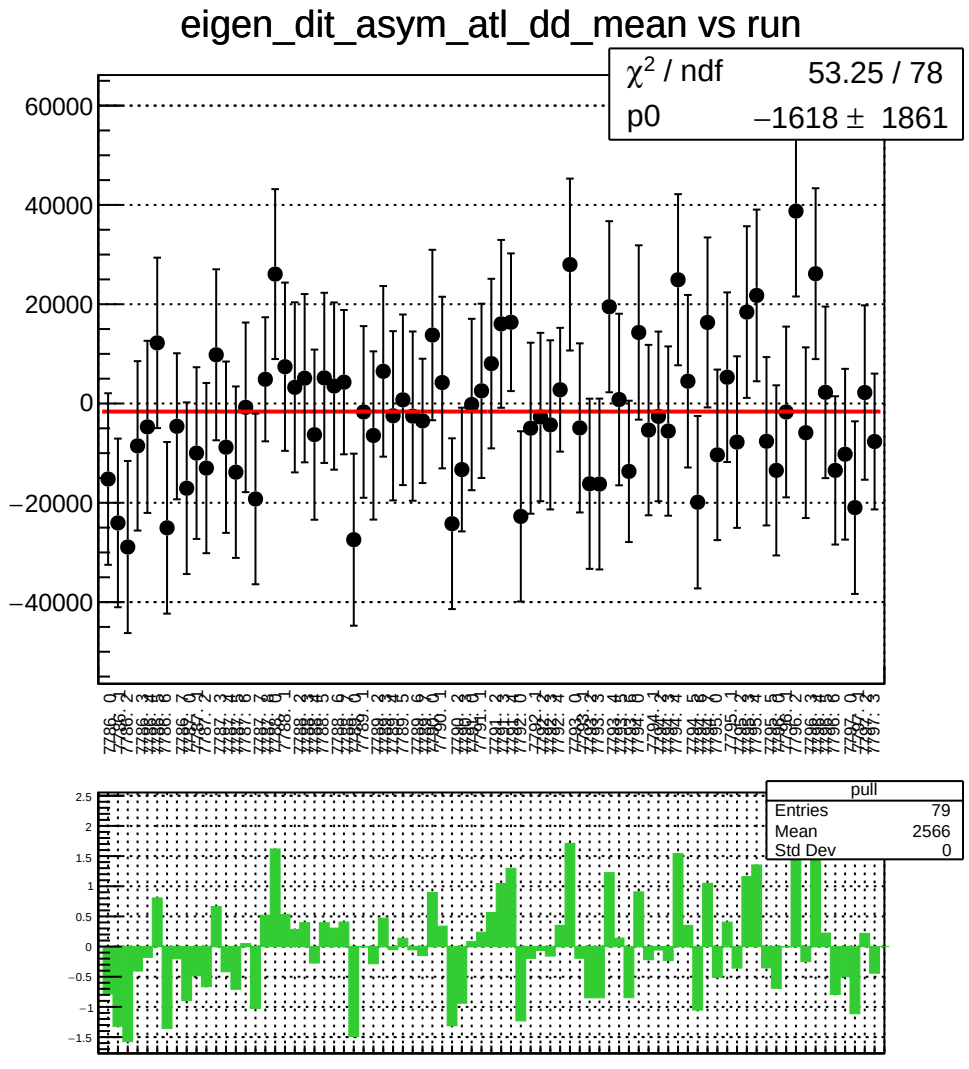

pull1D
Entries 79
Mean 0.001565
Std Dev 0.821

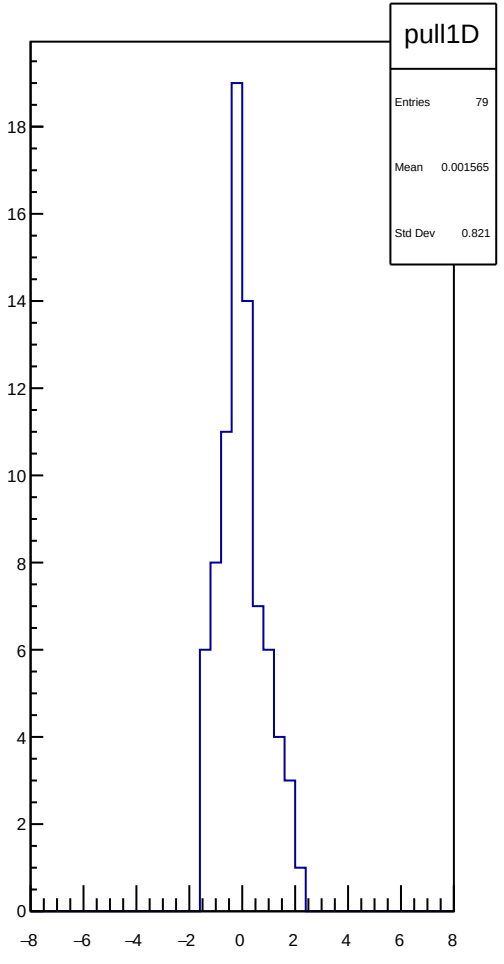

dit_asym_atl_dd_rms vs run
χ^2 / ndf 98.85 / 78
p0 1630 ± 1.316
1680
1660
1640
1620
1600
1580

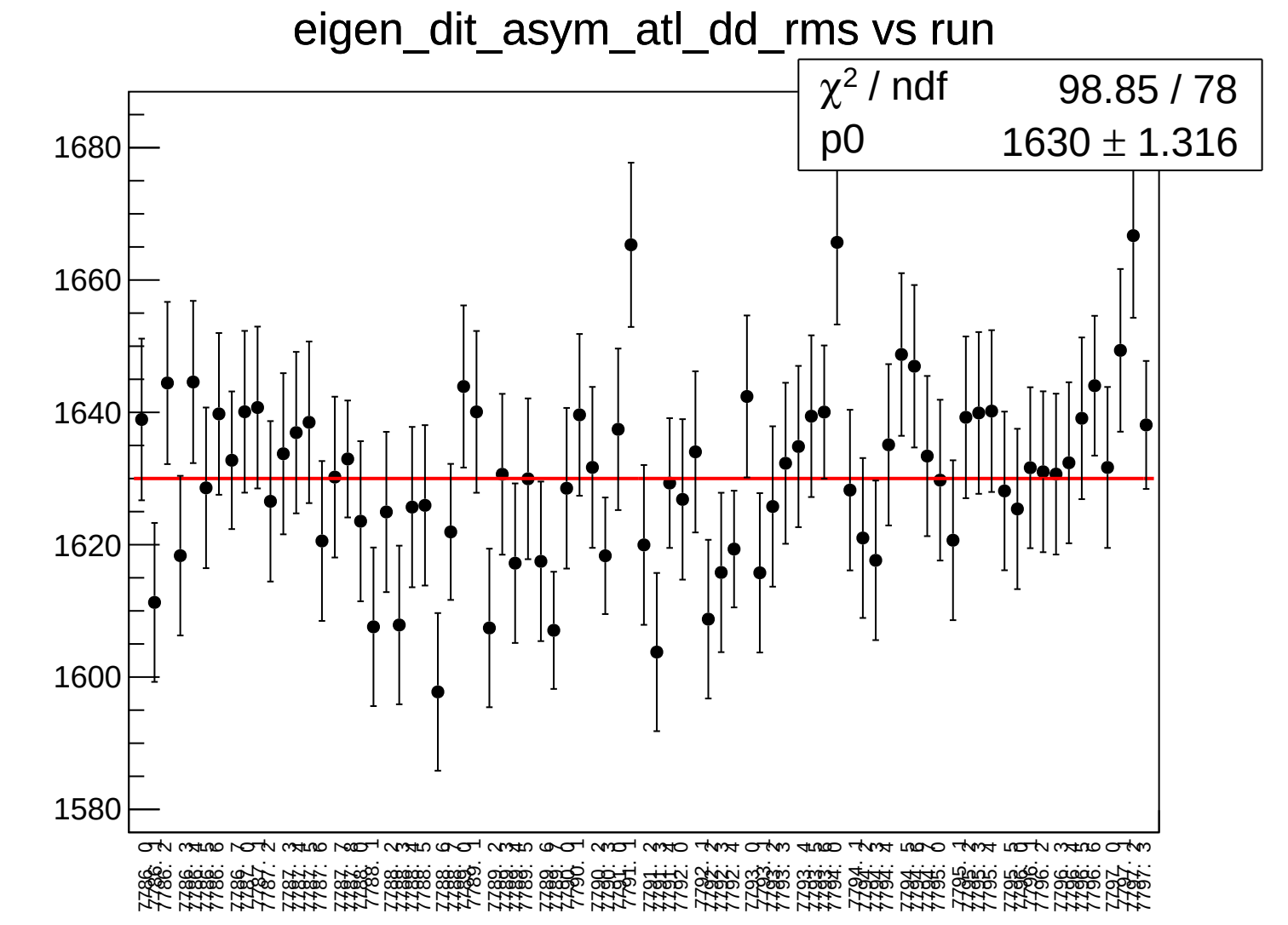

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 76.36 / 78
p0 2396 ± 4584
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −719.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

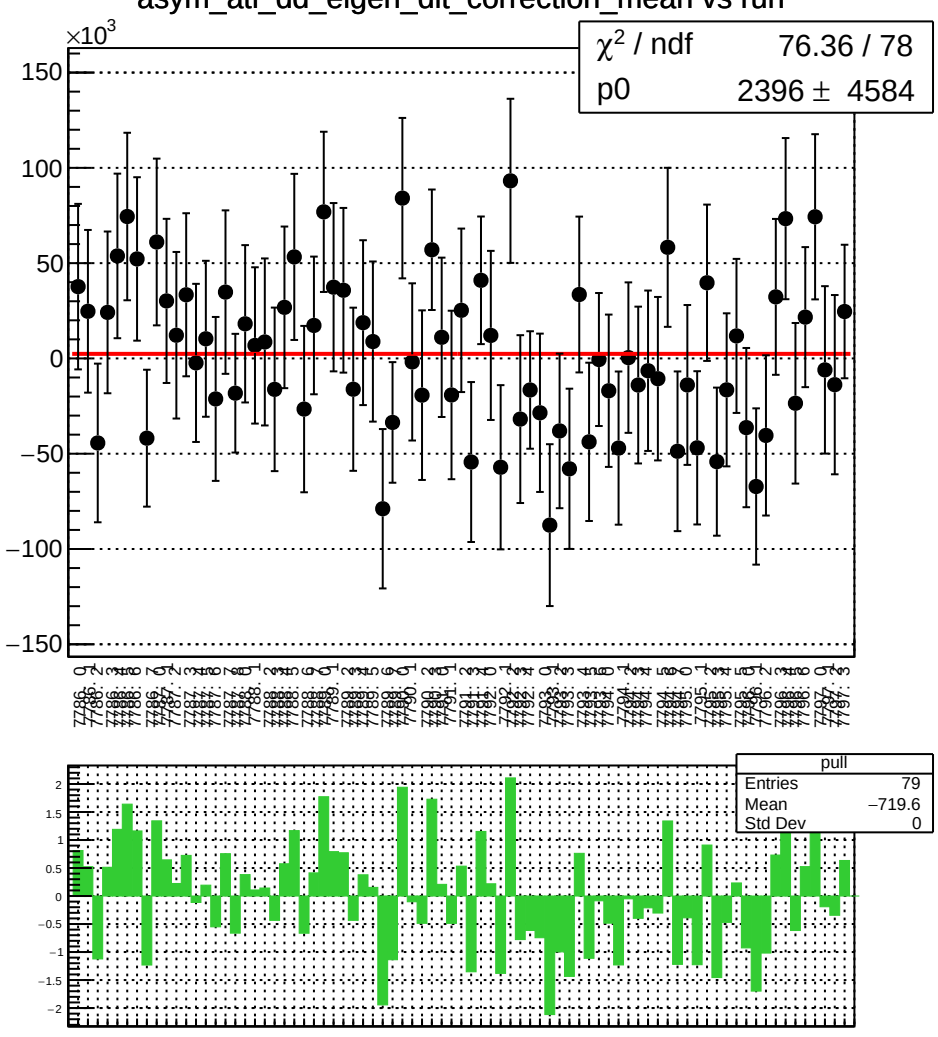

pull1D
Entries 79
Mean 0.006704
Std Dev 0.9831
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

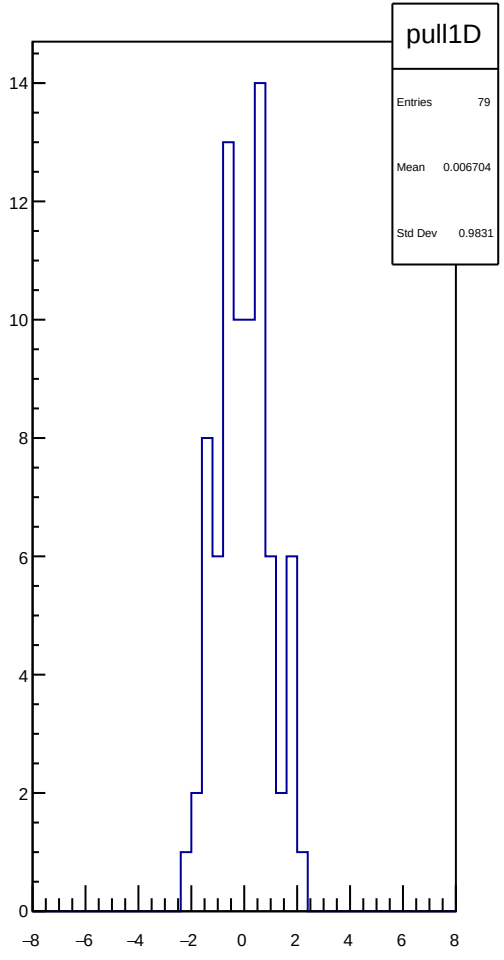

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1387 / 78
p0 4013 ± 3.242
4400
4200
4000
3800
3600

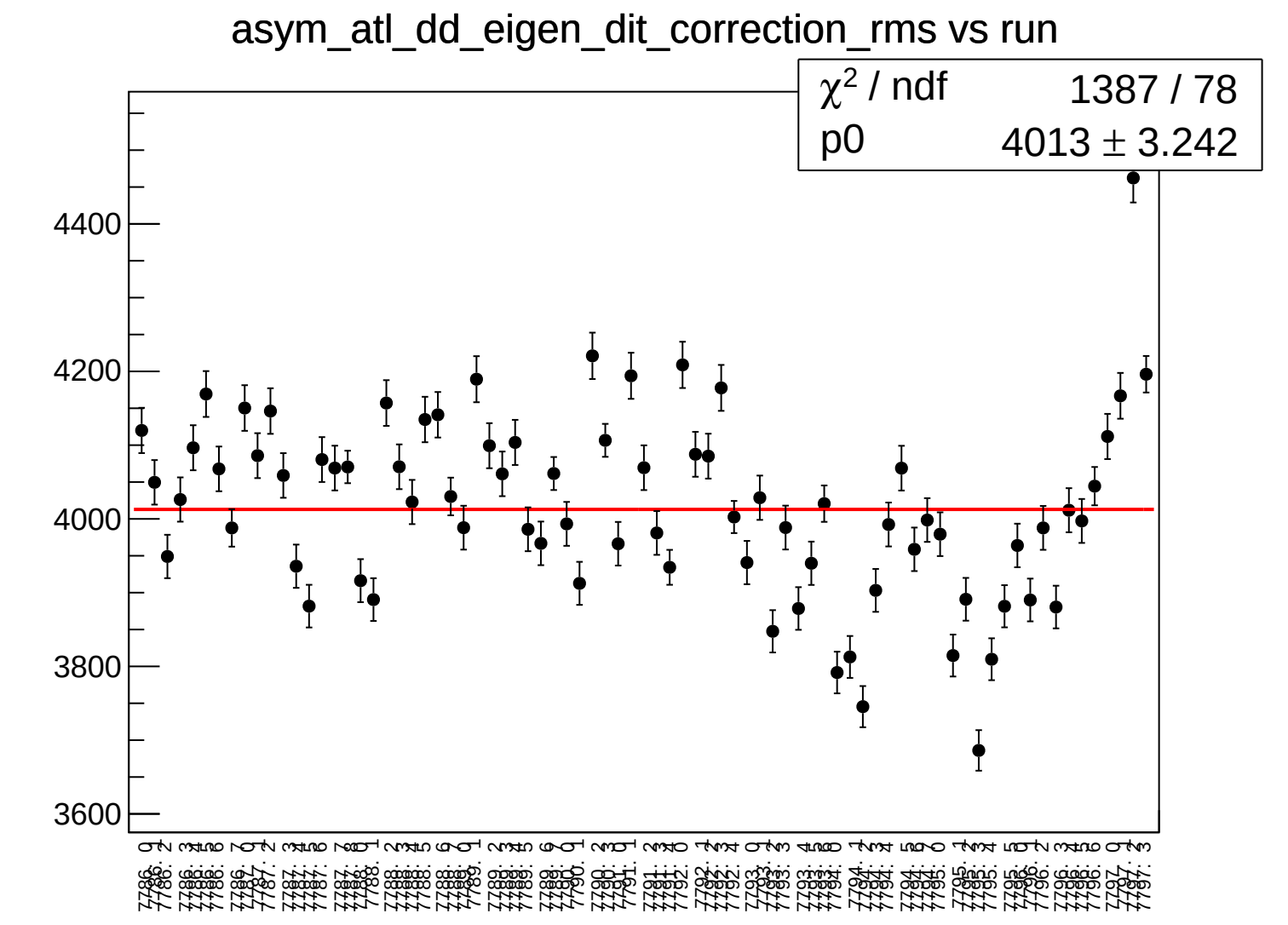

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 53.25 / 78
p0 −1618 ± 1861
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 2566
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

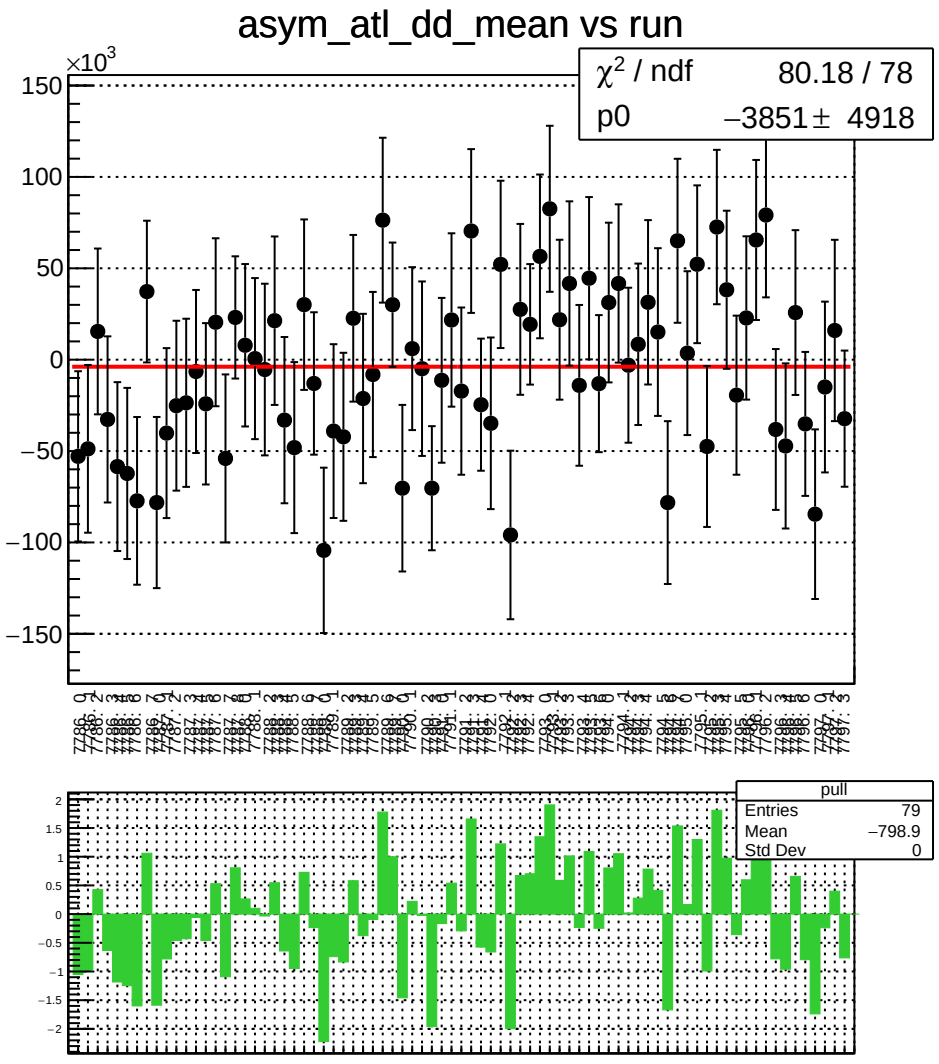

pull1D
Entries 79
Mean 0.001565
Std Dev 0.821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

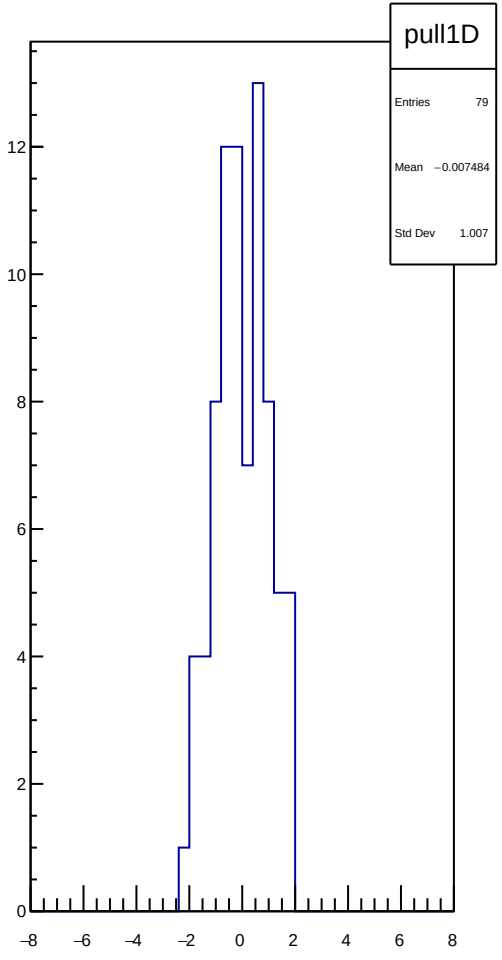

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 98.85 / 78
p0 1630 ± 1.316
1680
1660
1640
1620
1600
1580

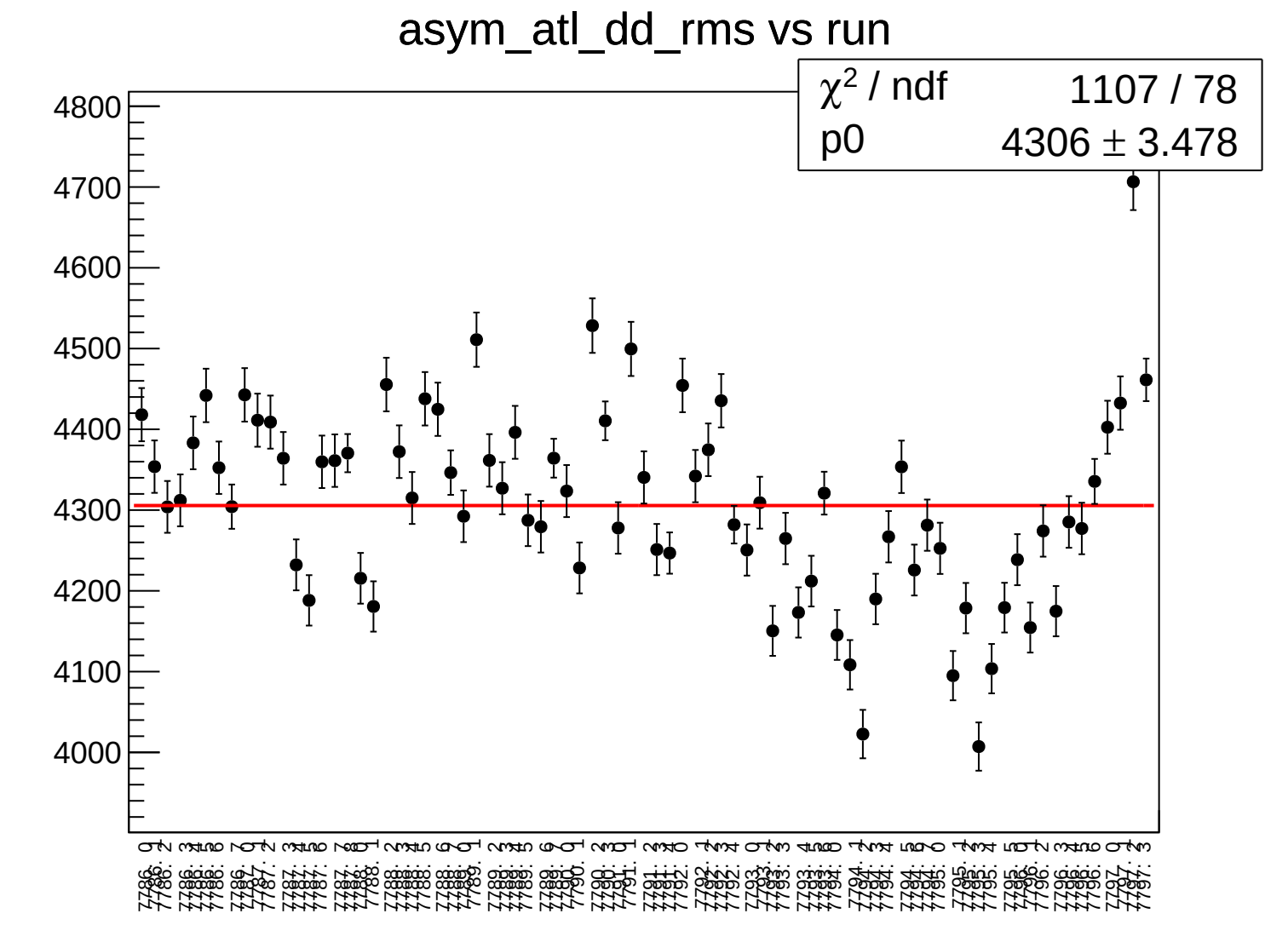

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 76.36 / 78
p0 2396 ± 4584
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −719.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

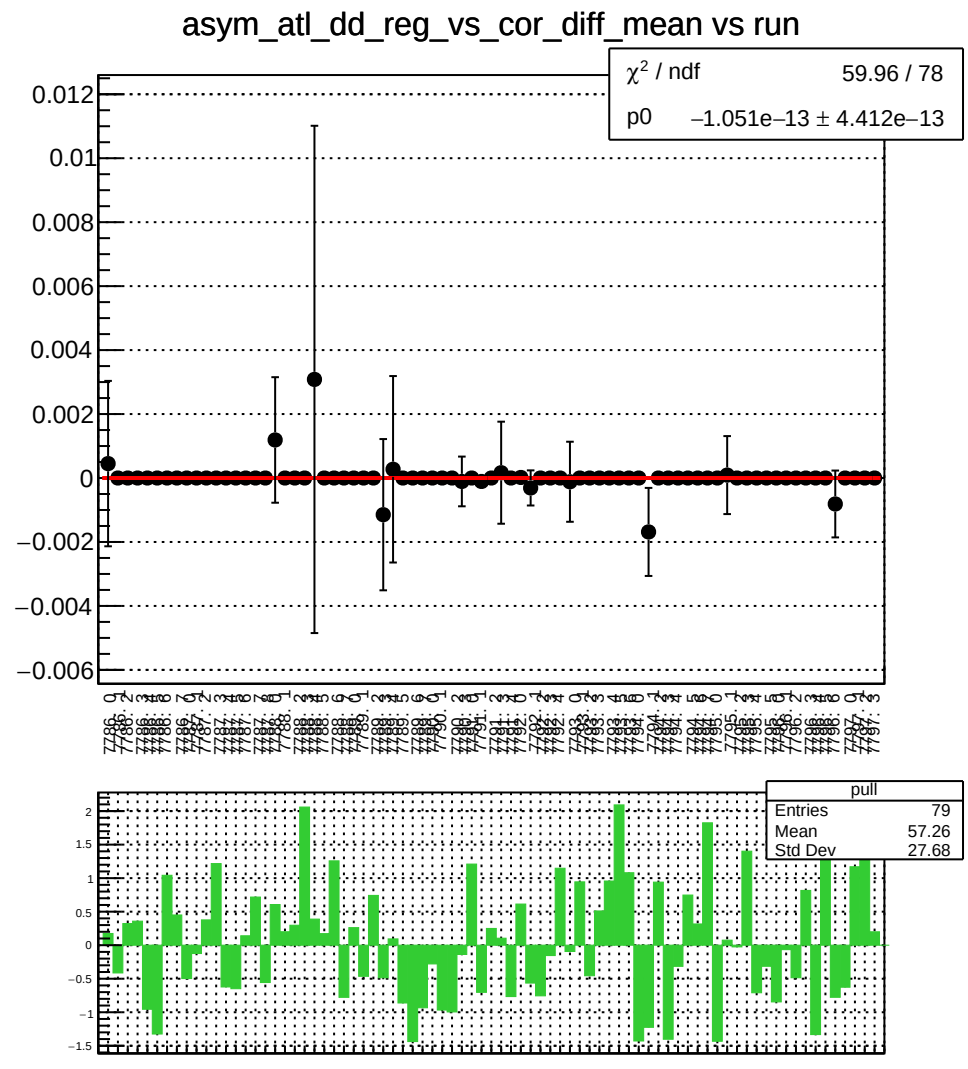

pull1D
Entries 79
Mean 0.006704
Std Dev 0.9831
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

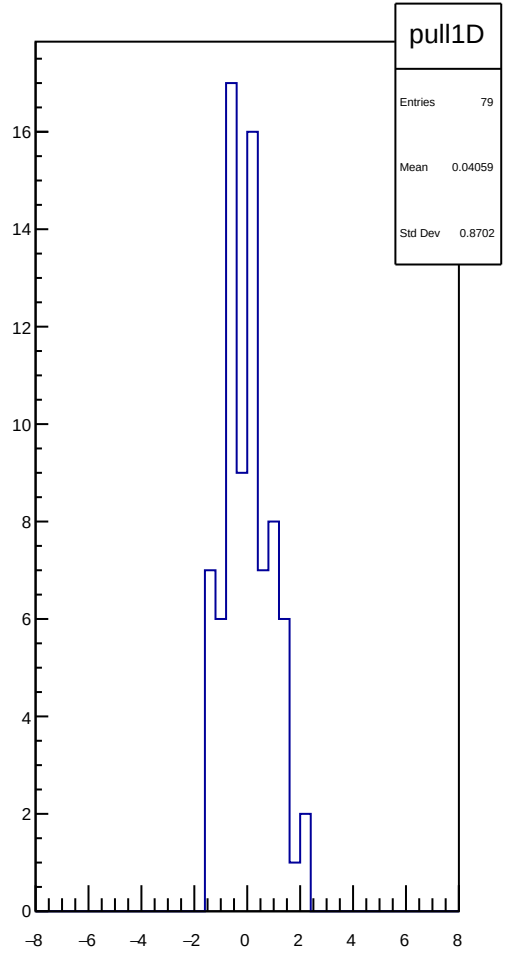

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1387 / 78
p0 4013 ± 3.242
4400
4200
4000
3800
3600

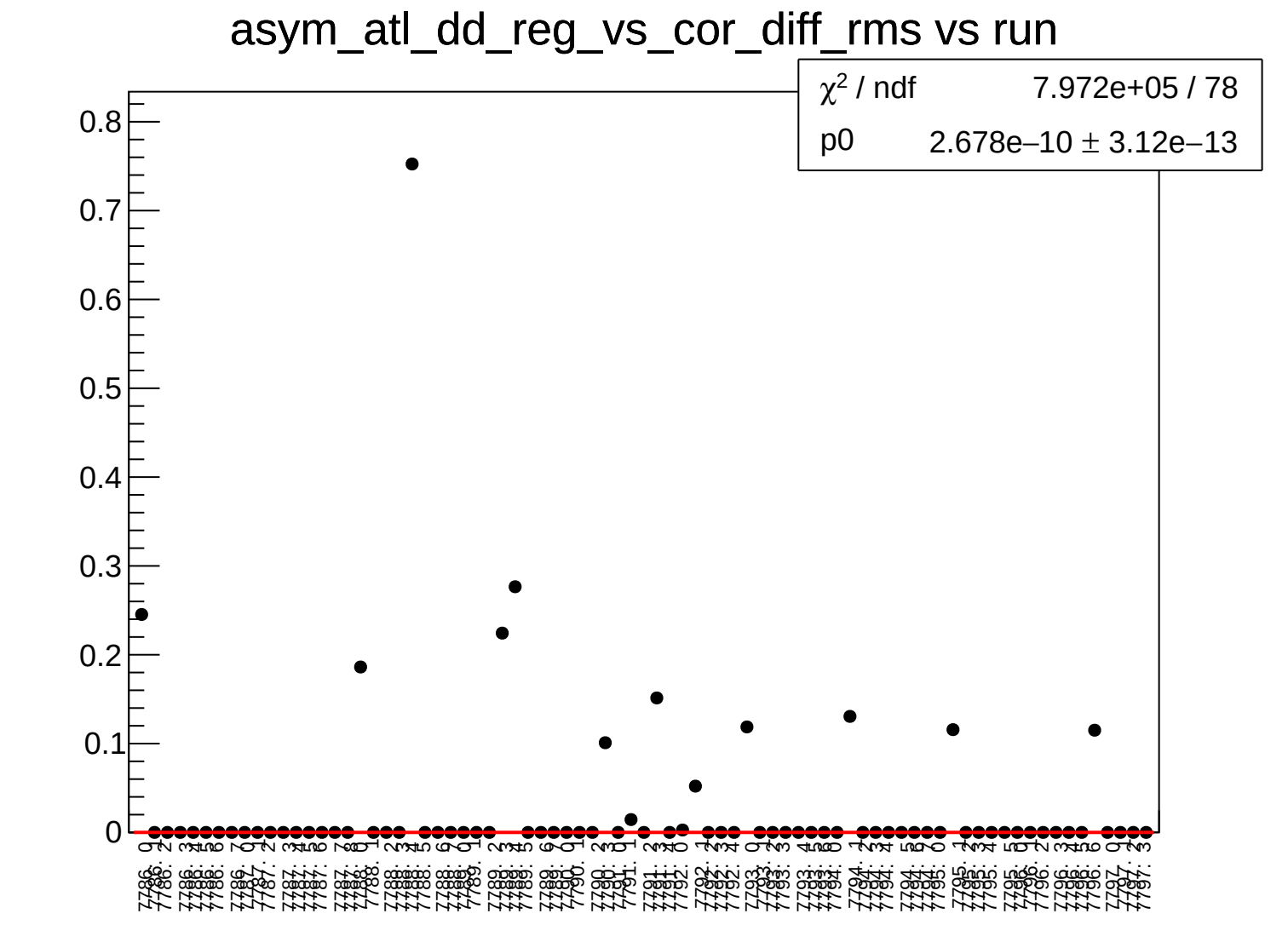

asym_atl_dd_mean vs run
×10^3
χ² / ndf 80.18 / 78
p0 −3851 ± 4918
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −798.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

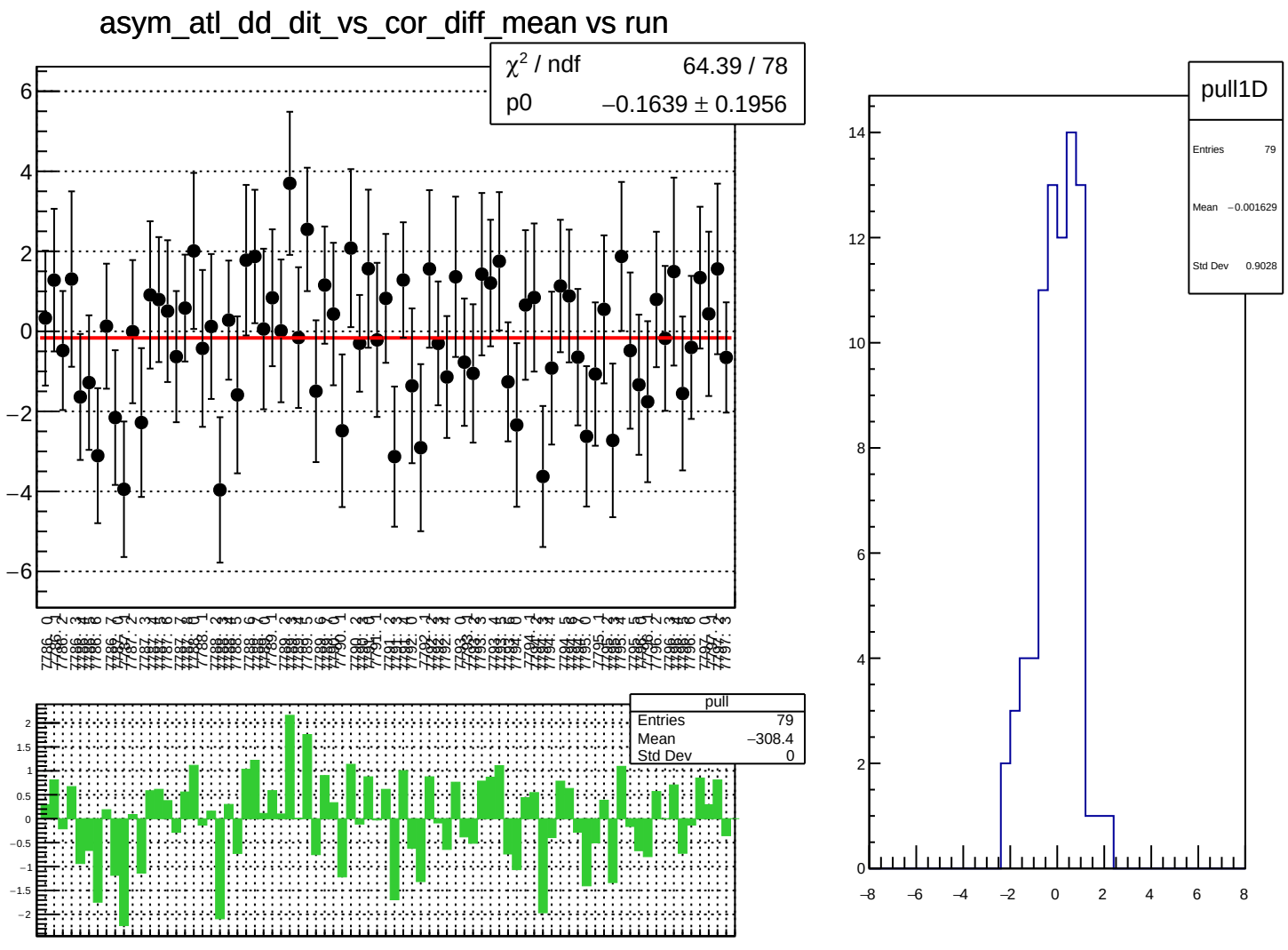

pull1D
Entries 79
Mean −0.007484
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

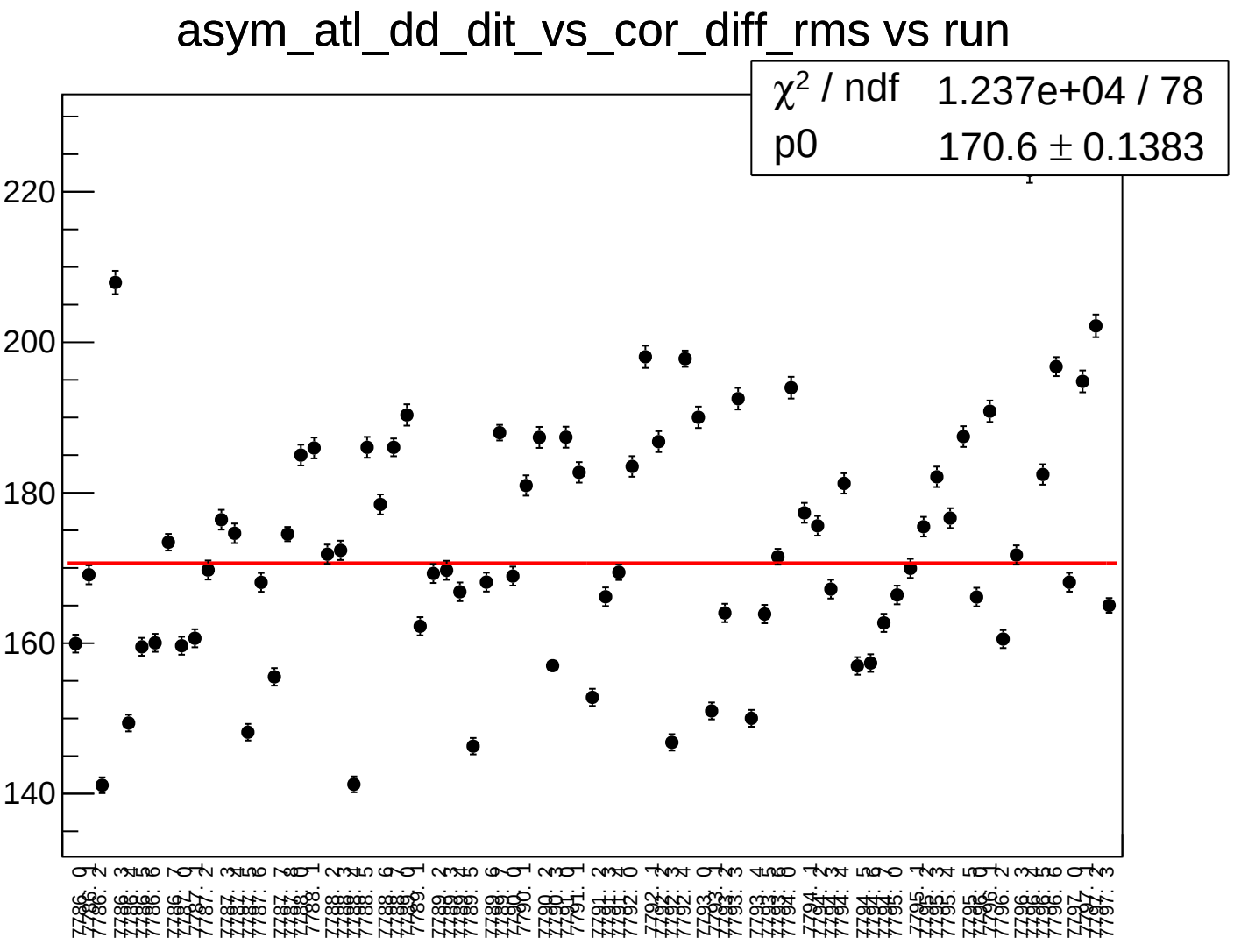

asym_atl_dd_rms vs run
χ² / ndf 1107 / 78
p0 4306 ± 3.478
4800
4700
4600
4500
4400
4300
4200
4100
4000

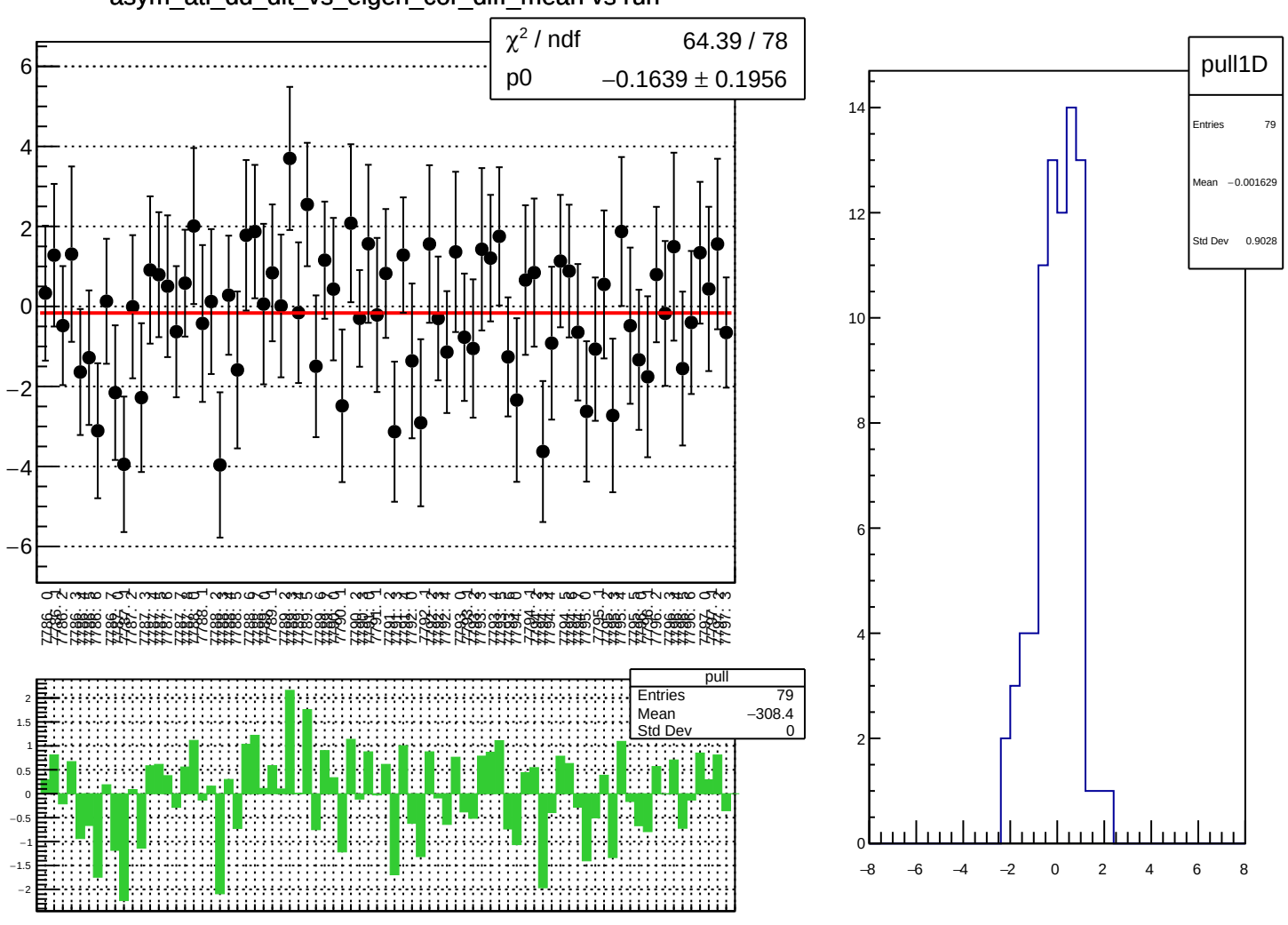

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 59.96 / 78
p0 −1.051e−13 ± 4.412e−13
pull
Entries 79
Mean 57.26
Std Dev 27.68

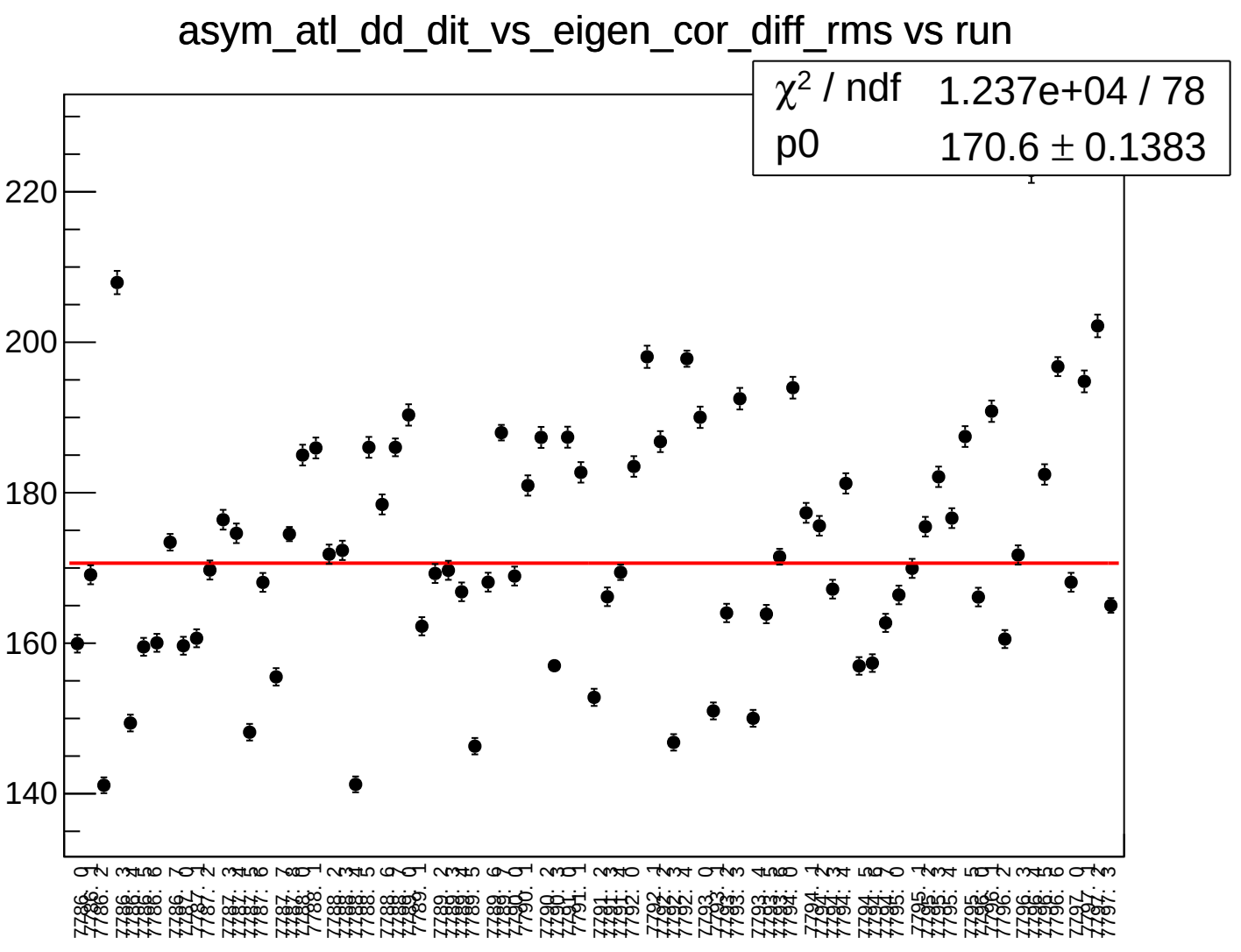

pull1D
Entries 79
Mean 0.04059
Std Dev 0.8702

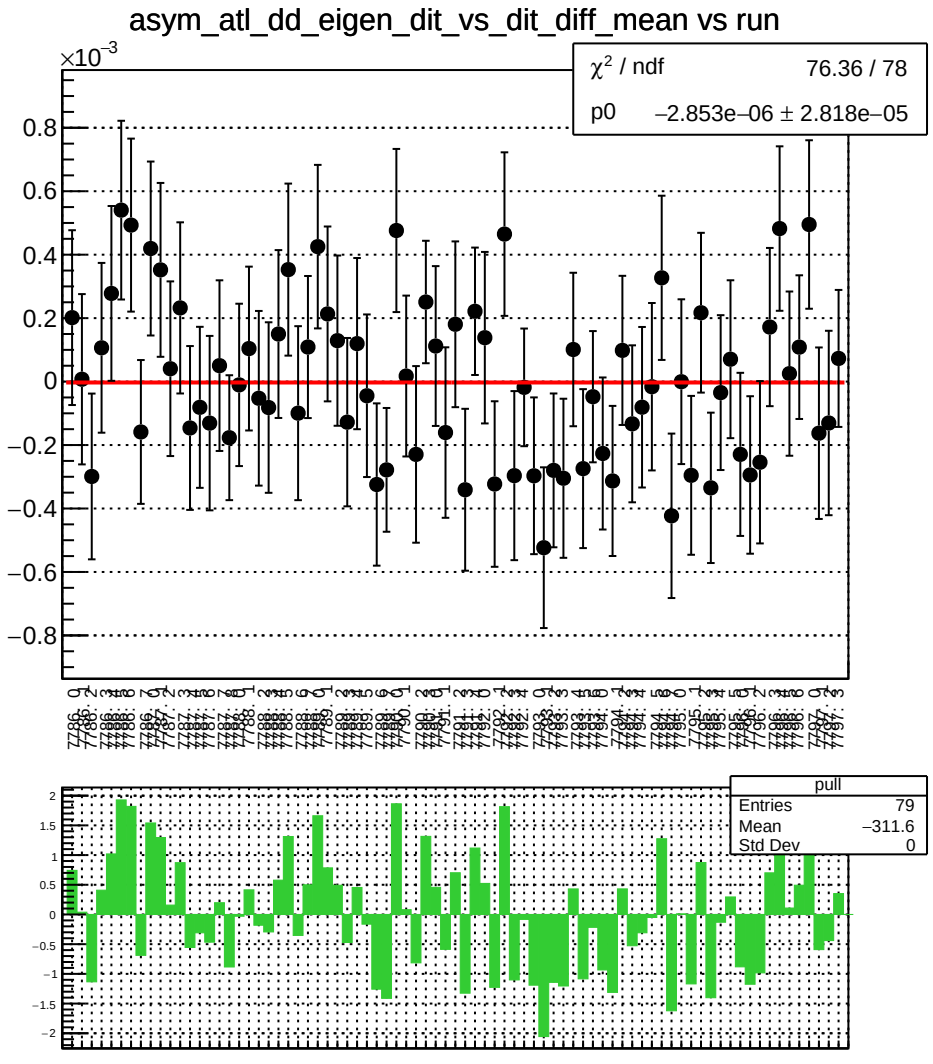

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.972e+05 / 78
p0 2.678e−10 ± 3.12e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

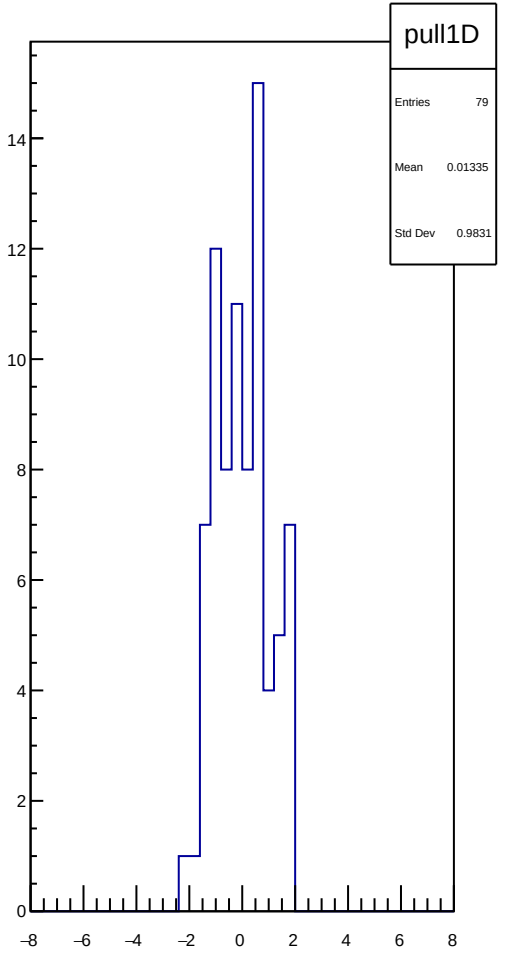

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.39 / 78
p0 −0.1639 ± 0.1956
pull
Entries 79
Mean −308.4
Std Dev 0
pull1D
Entries 79
Mean −0.001629
Std Dev 0.9028

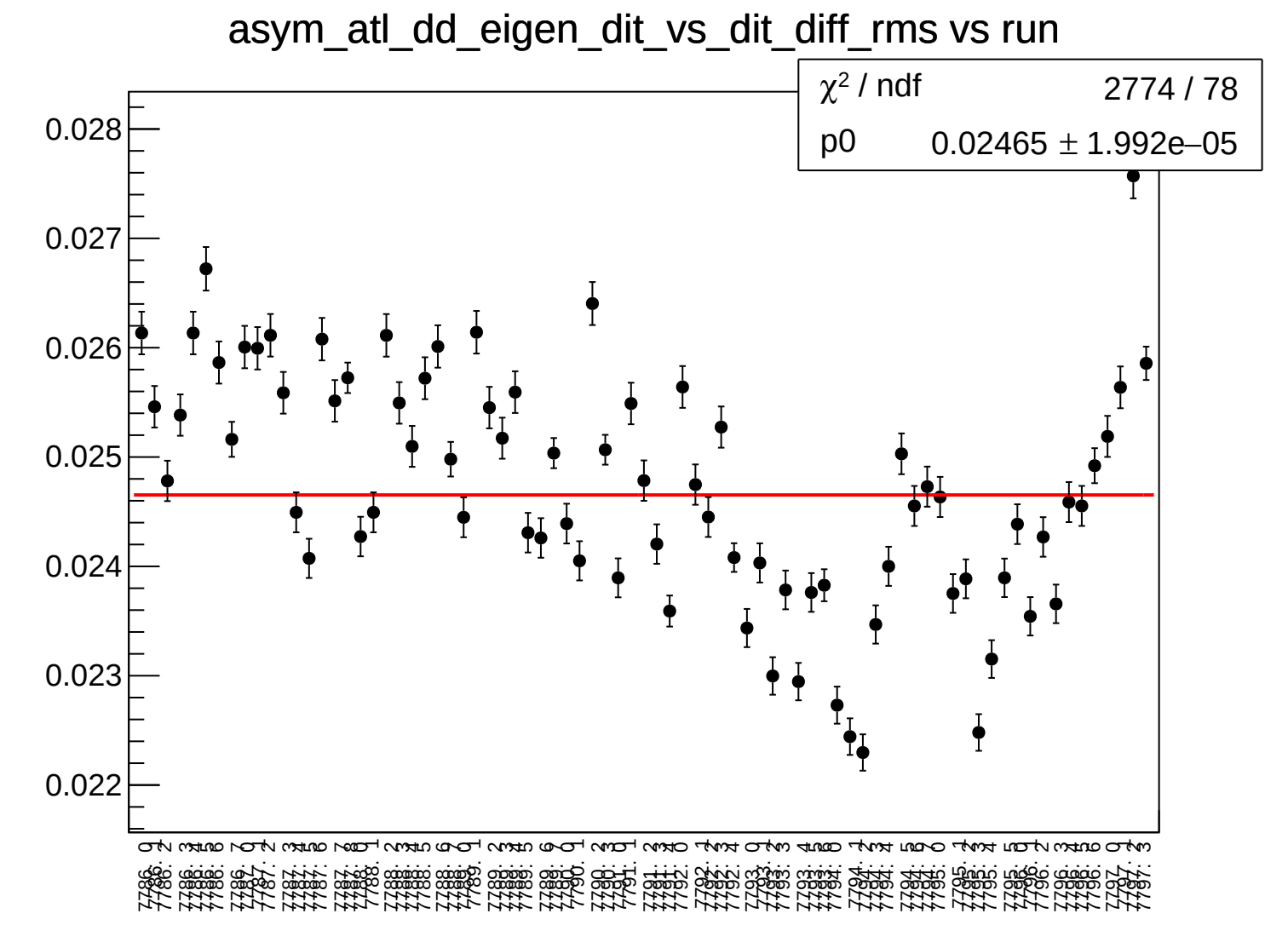

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.237e+04 / 78
p0 170.6 ± 0.1383
220
200
180
160
140

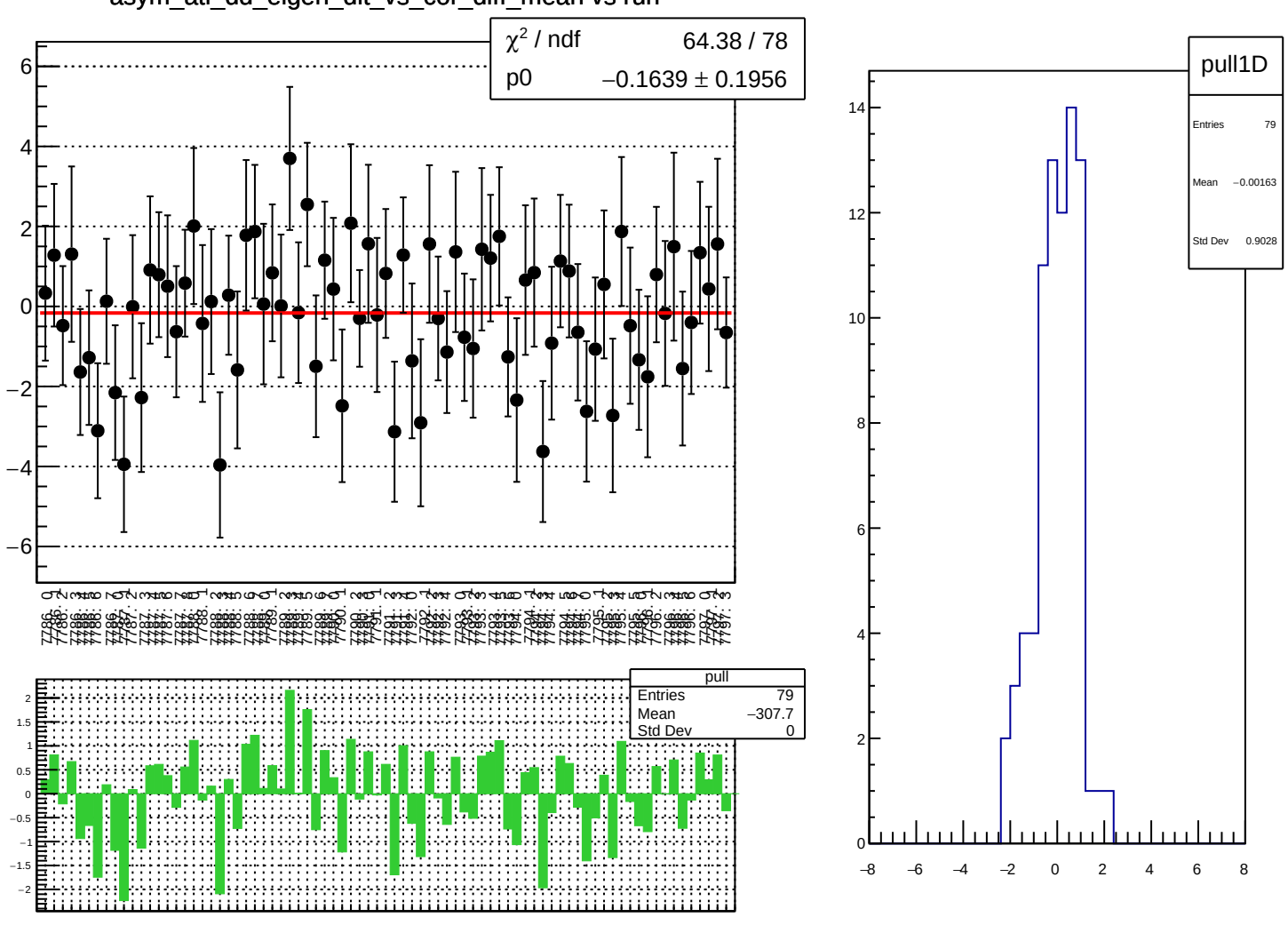

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.39 / 78
p0 −0.1639 ± 0.1956
pull
Entries 79
Mean −308.4
Std Dev 0
pull1D
Entries 79
Mean −0.001629
Std Dev 0.9028

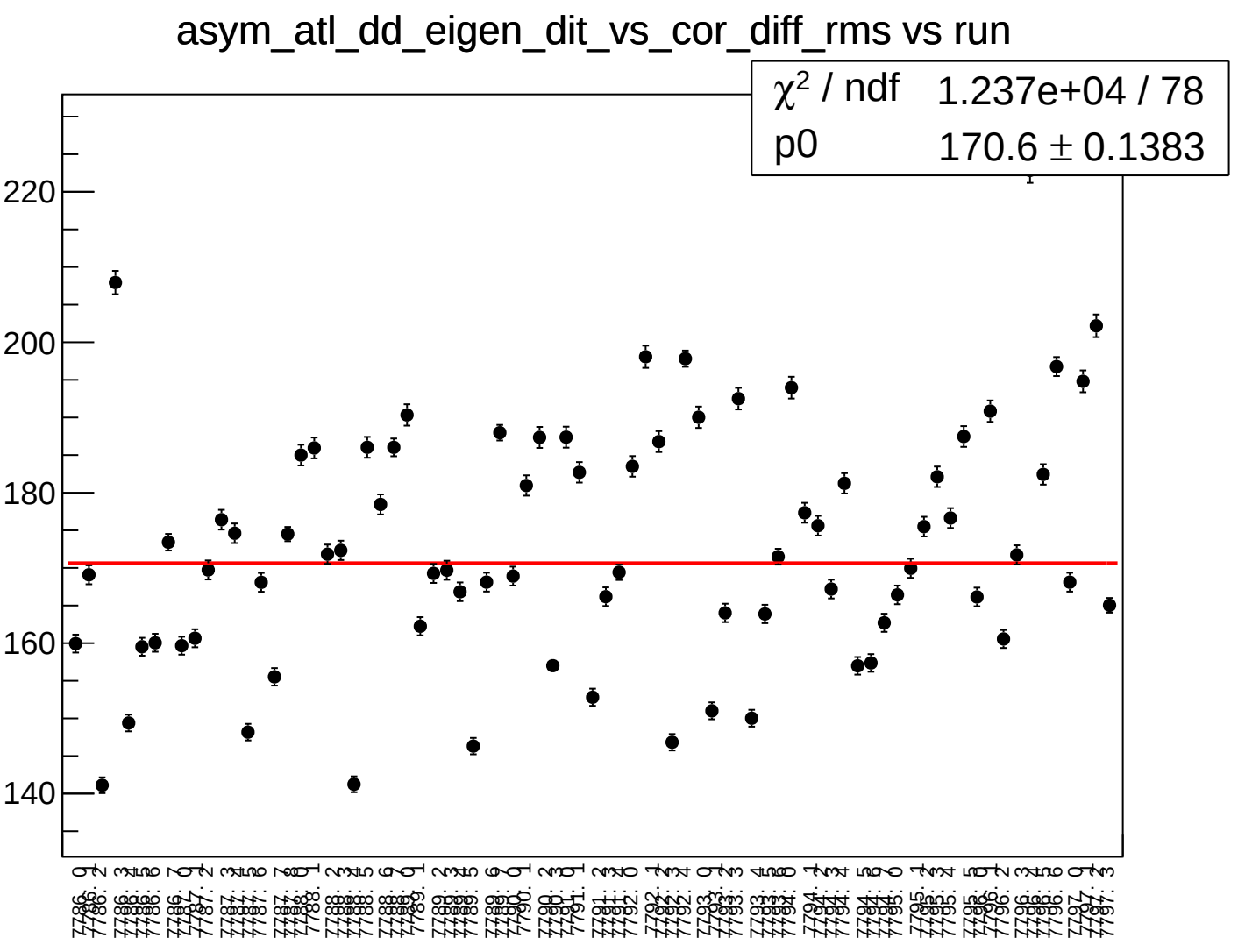

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.237e+04 / 78
p0 170.6 ± 0.1383
220
200
180
160
140

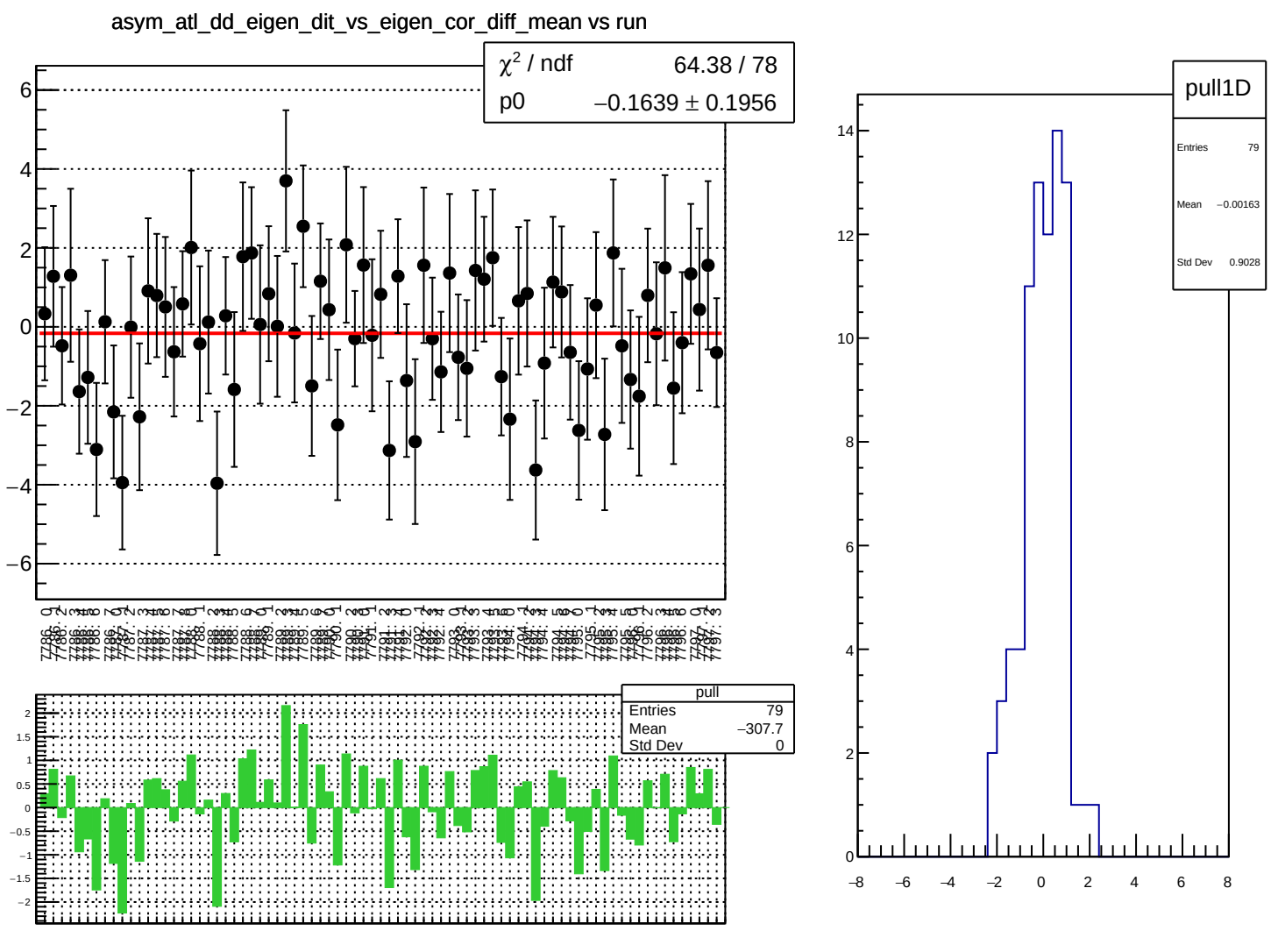

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.36 / 78
p0 −2.853e−06 ± 2.818e−05
pull
Entries 79
Mean −311.6
Std Dev 0

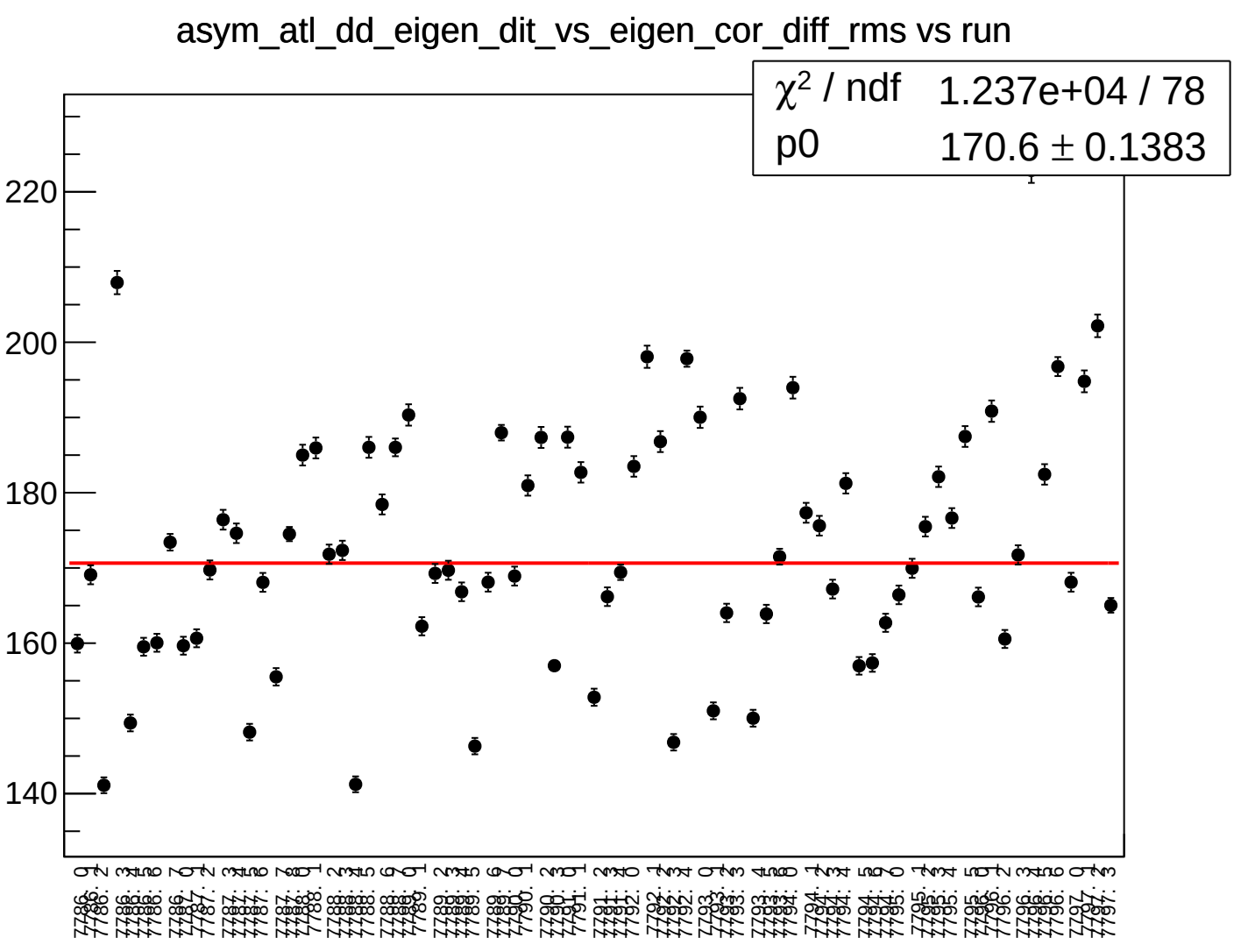

pull1D
Entries 79
Mean 0.01335
Std Dev 0.9831

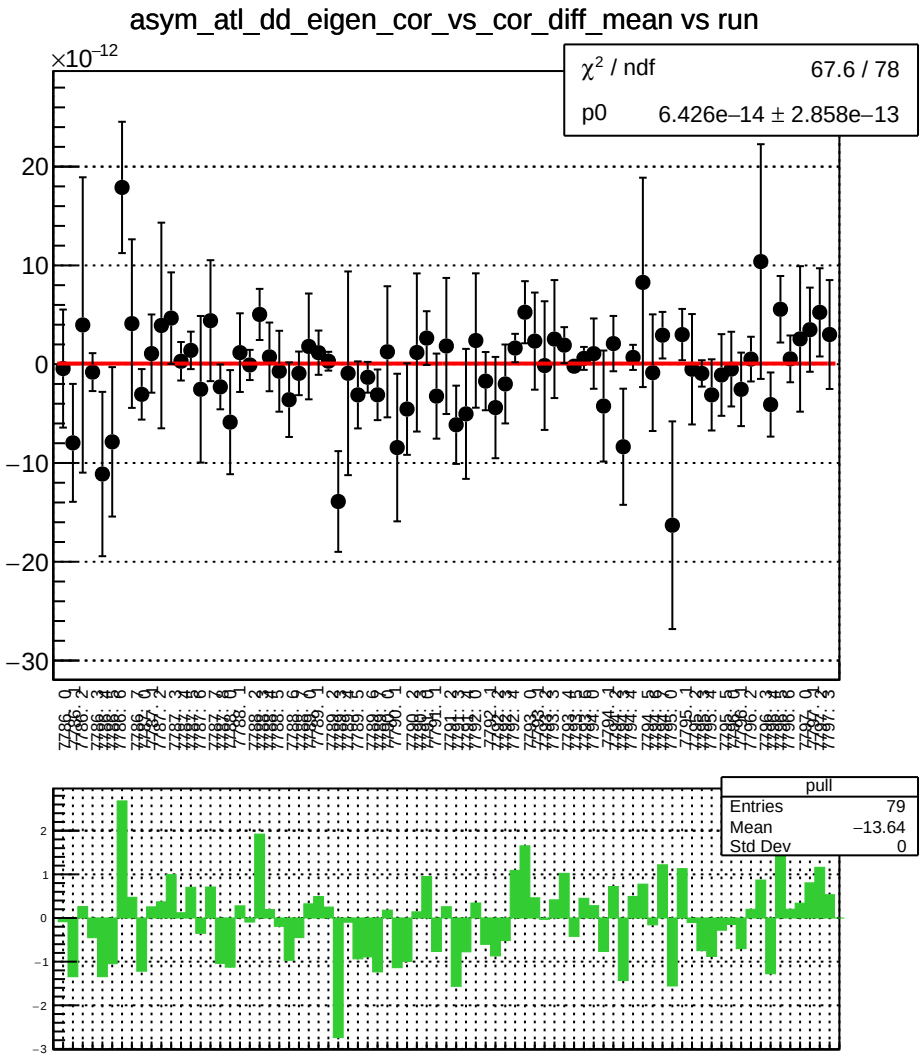

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2774 / 78
p0 0.02465 ± 1.992e−05
0.028
0.027
0.026
0.025
0.024
0.023
0.022

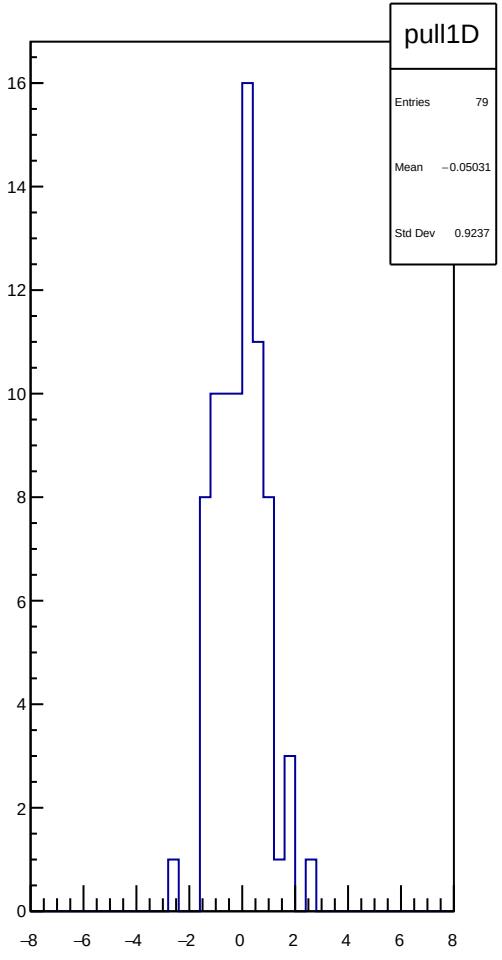

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.38 / 78
p0 −0.1639 ± 0.1956
pull
Entries 79
Mean −307.7
Std Dev 0
pull1D
Entries 79
Mean −0.00163
Std Dev 0.9028

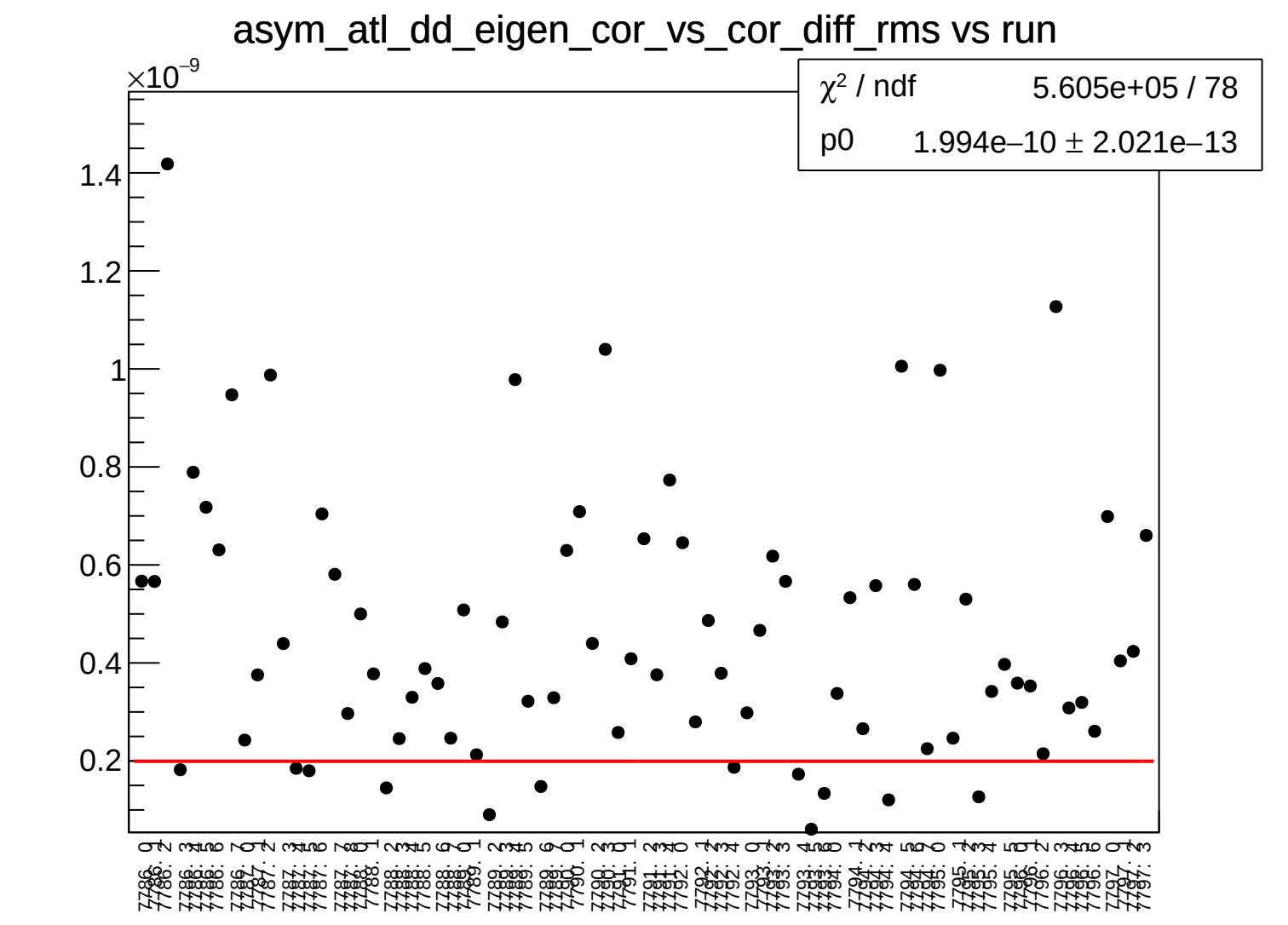

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.237e+04 / 78
p0 170.6 ± 0.1383
220
200
180
160
140

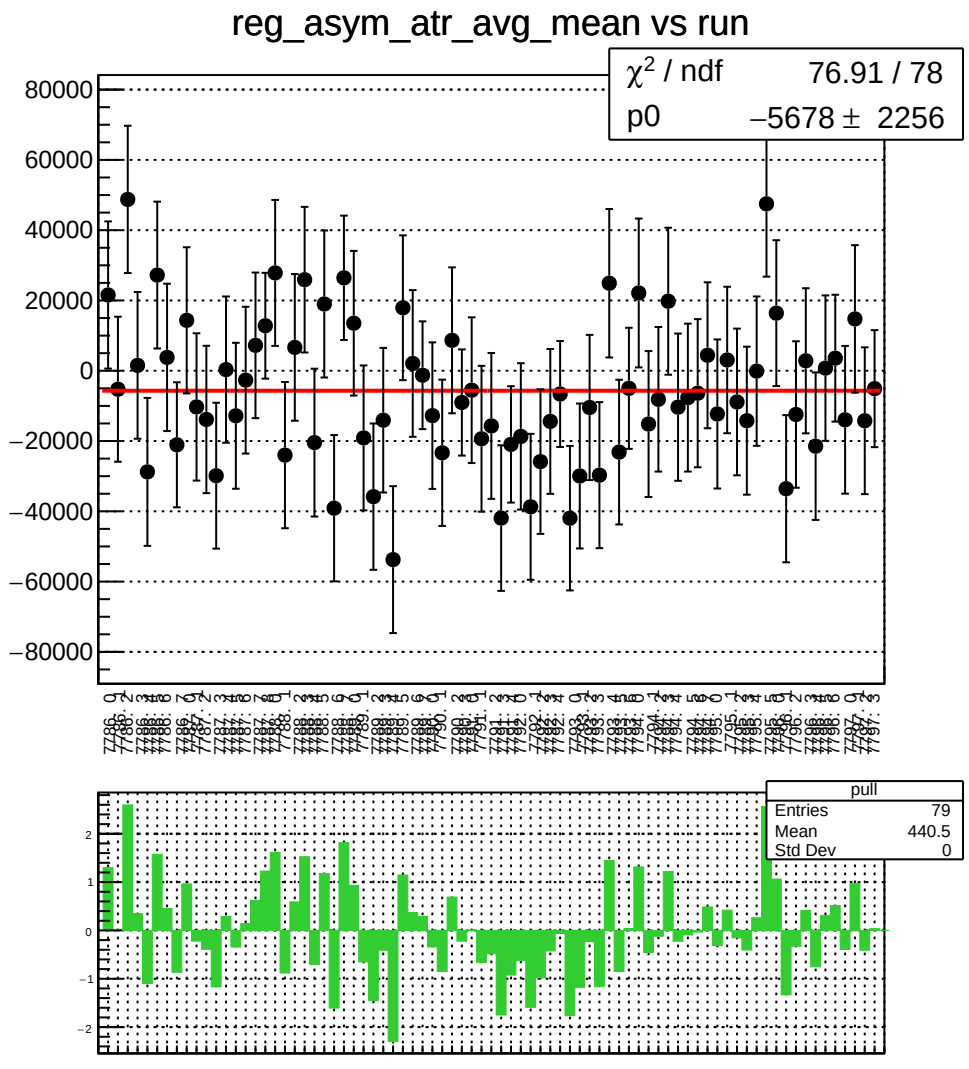

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.38 / 78
p0 −0.1639 ± 0.1956
pull
Entries 79
Mean −307.7
Std Dev 0
pull1D
Entries 79
Mean −0.00163
Std Dev 0.9028

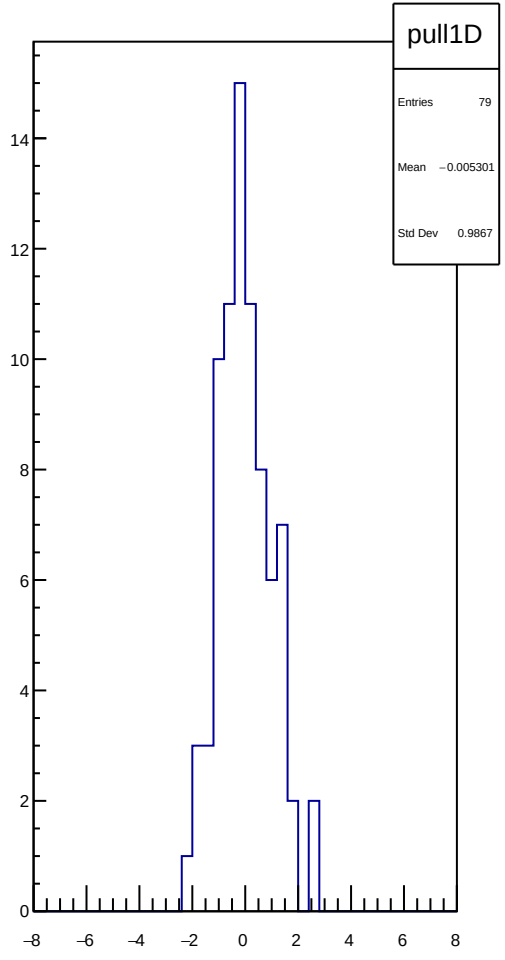

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.237e+04 / 78
p0 170.6 ± 0.1383
220
200
180
160
140

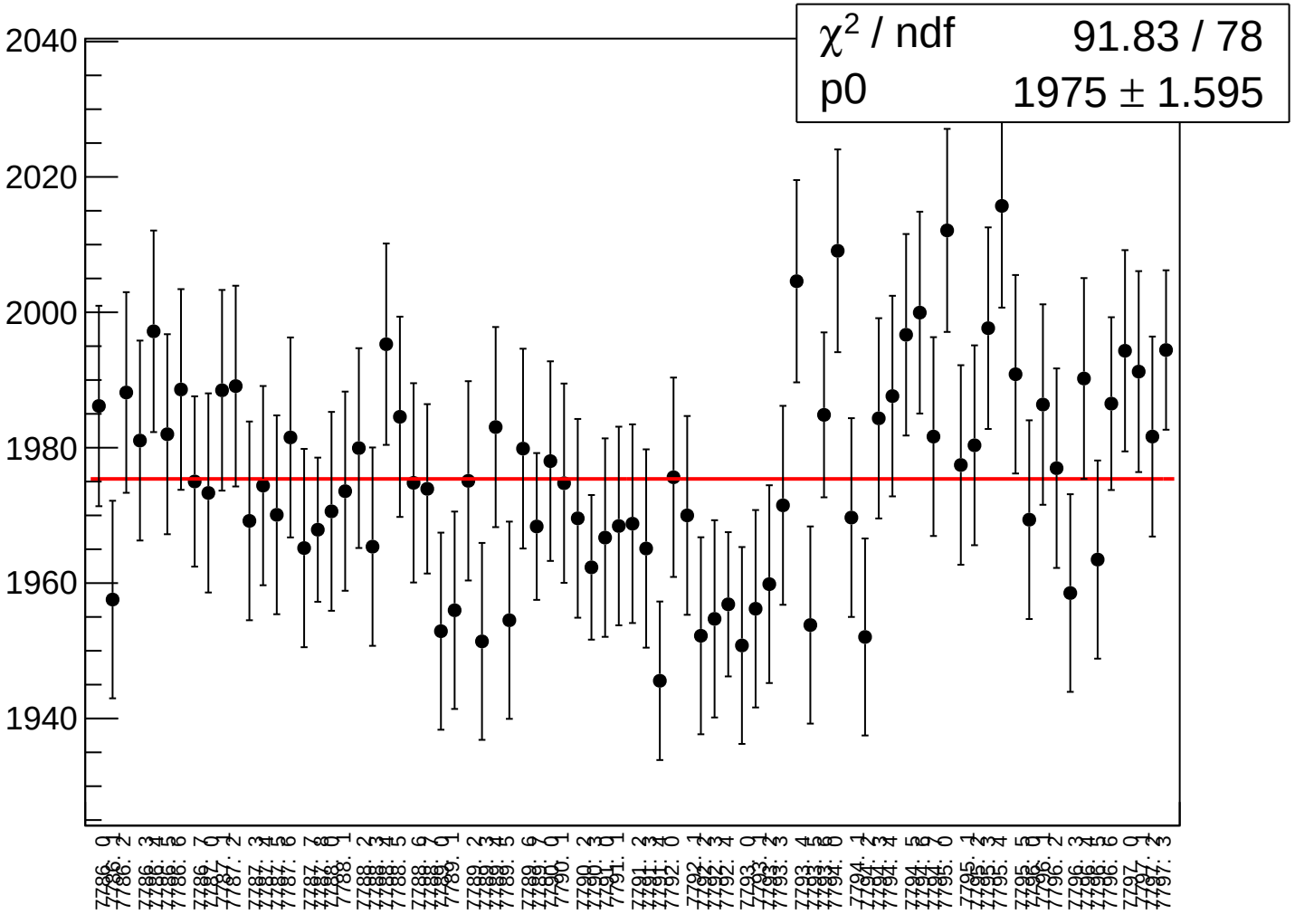

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.6 / 78
p0 6.426e−14 ± 2.858e−13
pull
Entries 79
Mean −13.64
Std Dev 0

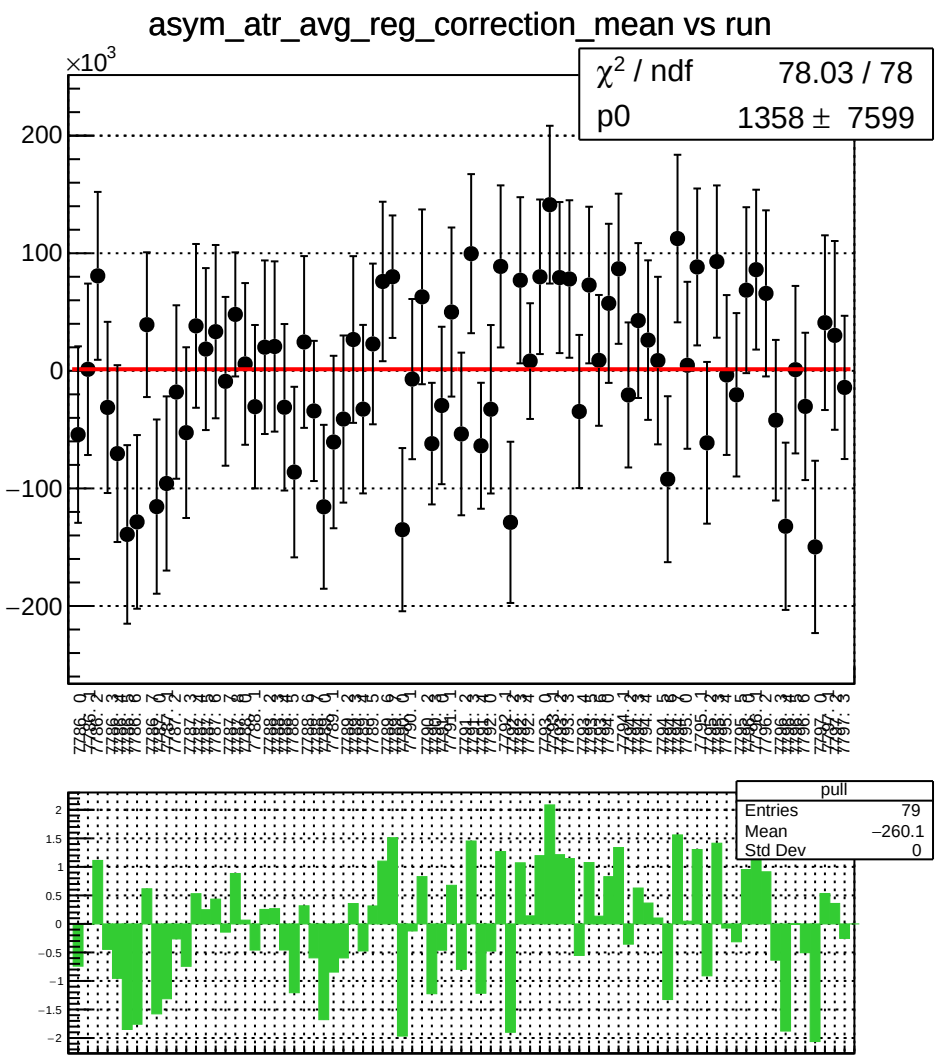

pull1D
Entries 79
Mean −0.05031
Std Dev 0.9237

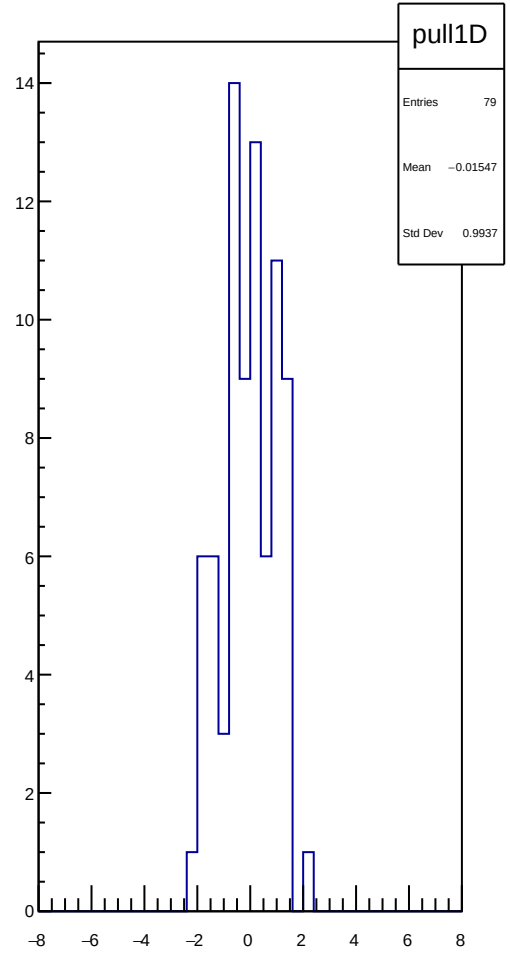

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.605e+05 / 78
p0 1.994e−10 ± 2.021e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

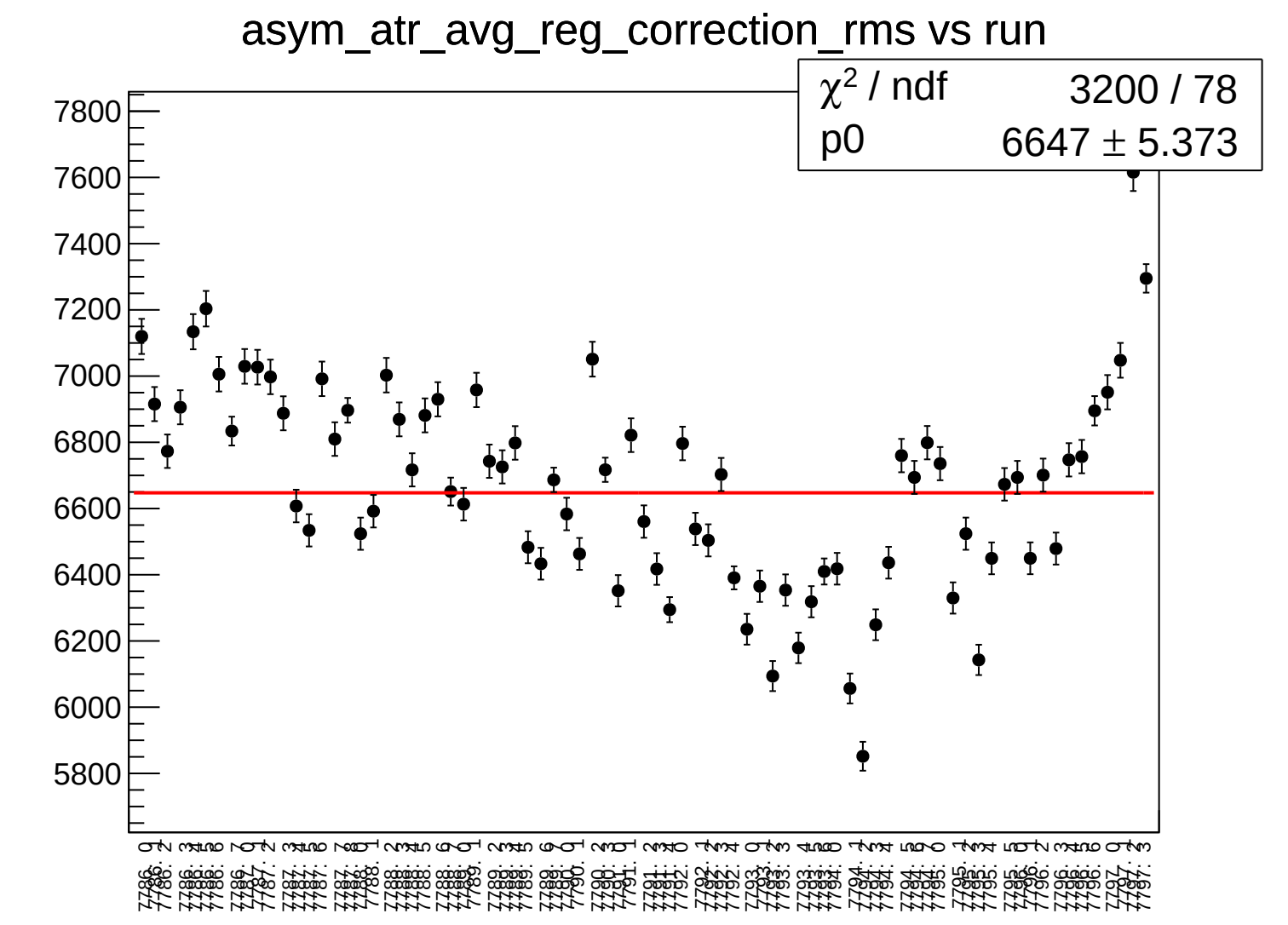

reg_asym_atr_avg_mean vs run
χ² / ndf 76.91 / 78
p0 −5678 ± 2256
pull
Entries 79
Mean 440.5
Std Dev 0

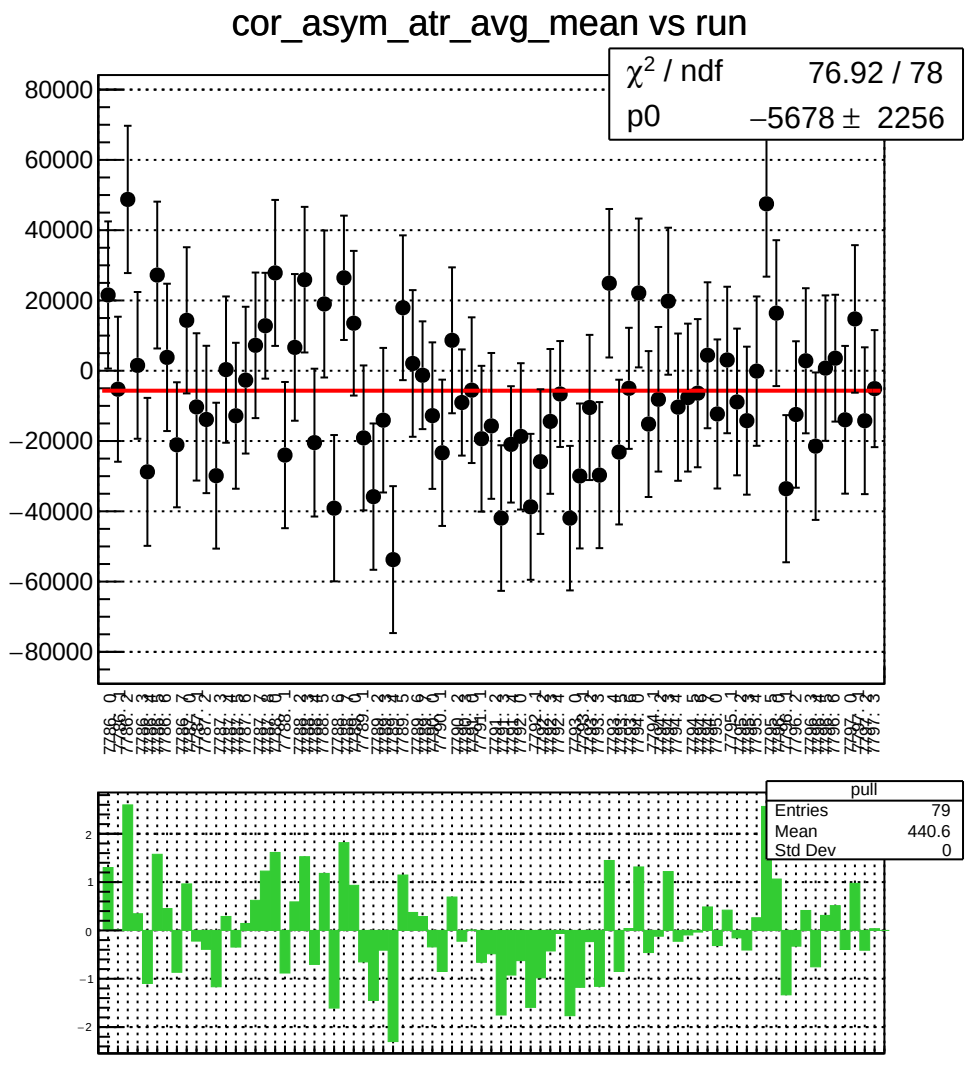

pull1D
Entries 79
Mean −0.005301
Std Dev 0.9867

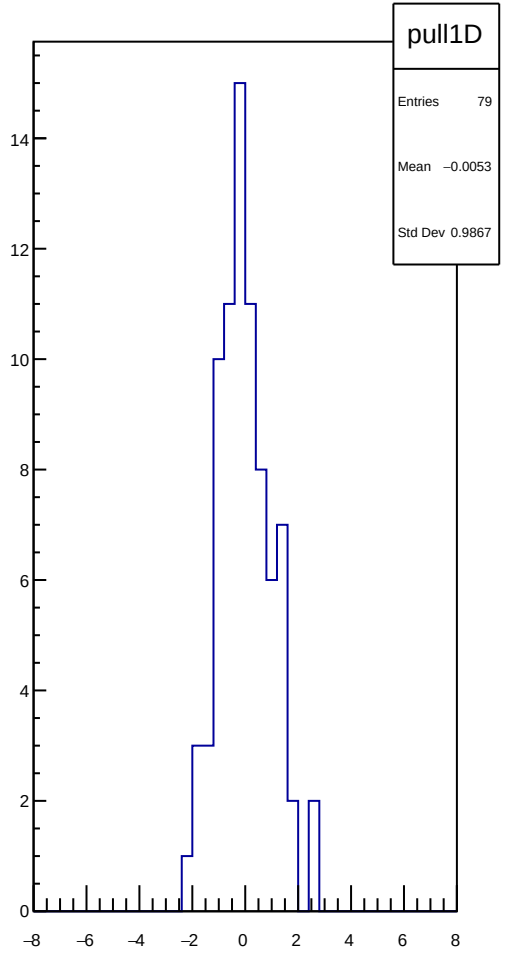

reg_asym_atr_avg_rms vs run
χ^2 / ndf 91.83 / 78
p0 1975 ± 1.595
2040
2020
2000
1980
1960
1940

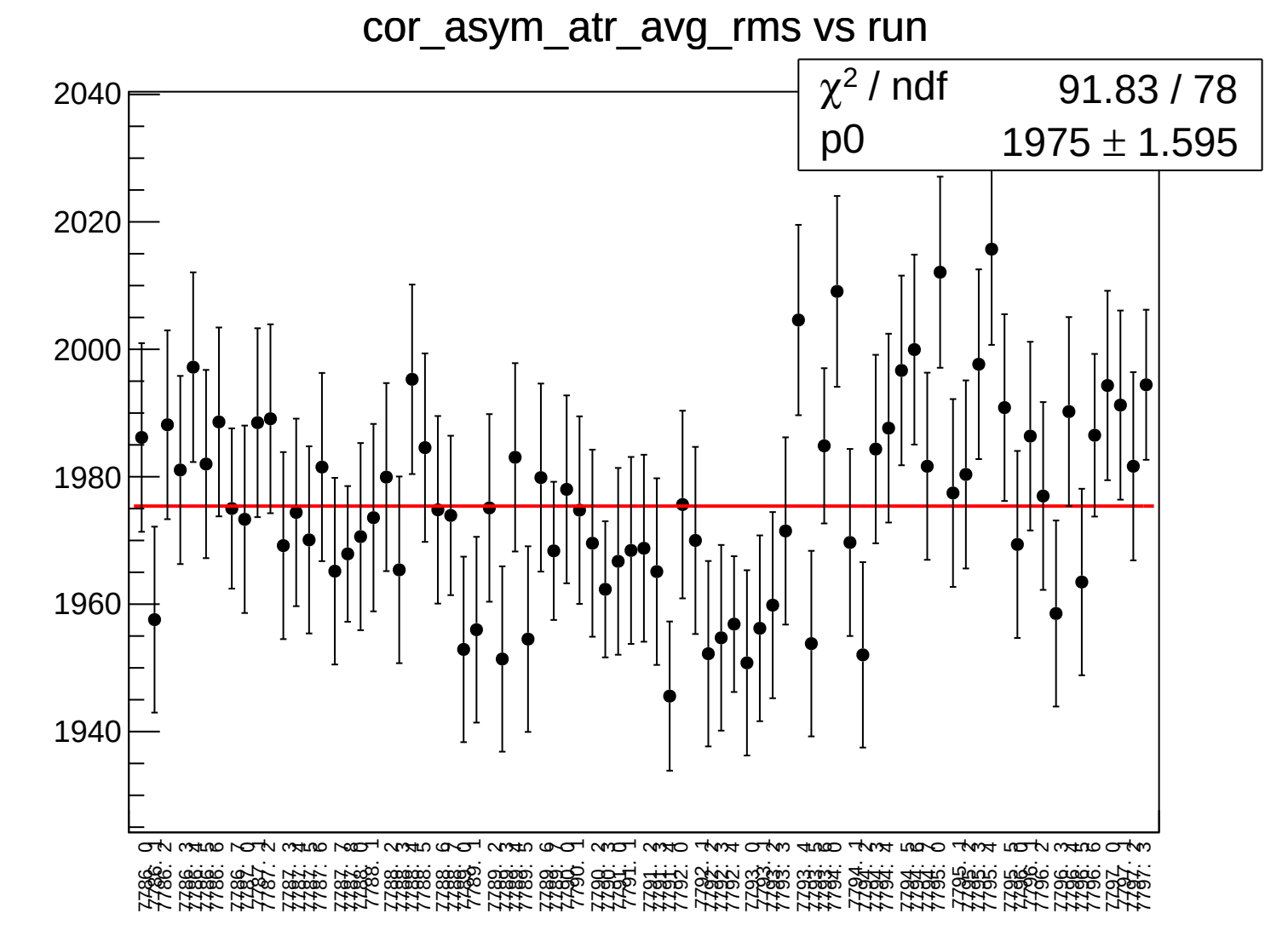

asym_atr_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 78.03 / 78
p0 1358 ± 7599
200
100
0
−100
−200
pull
Entries 79
Mean −260.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

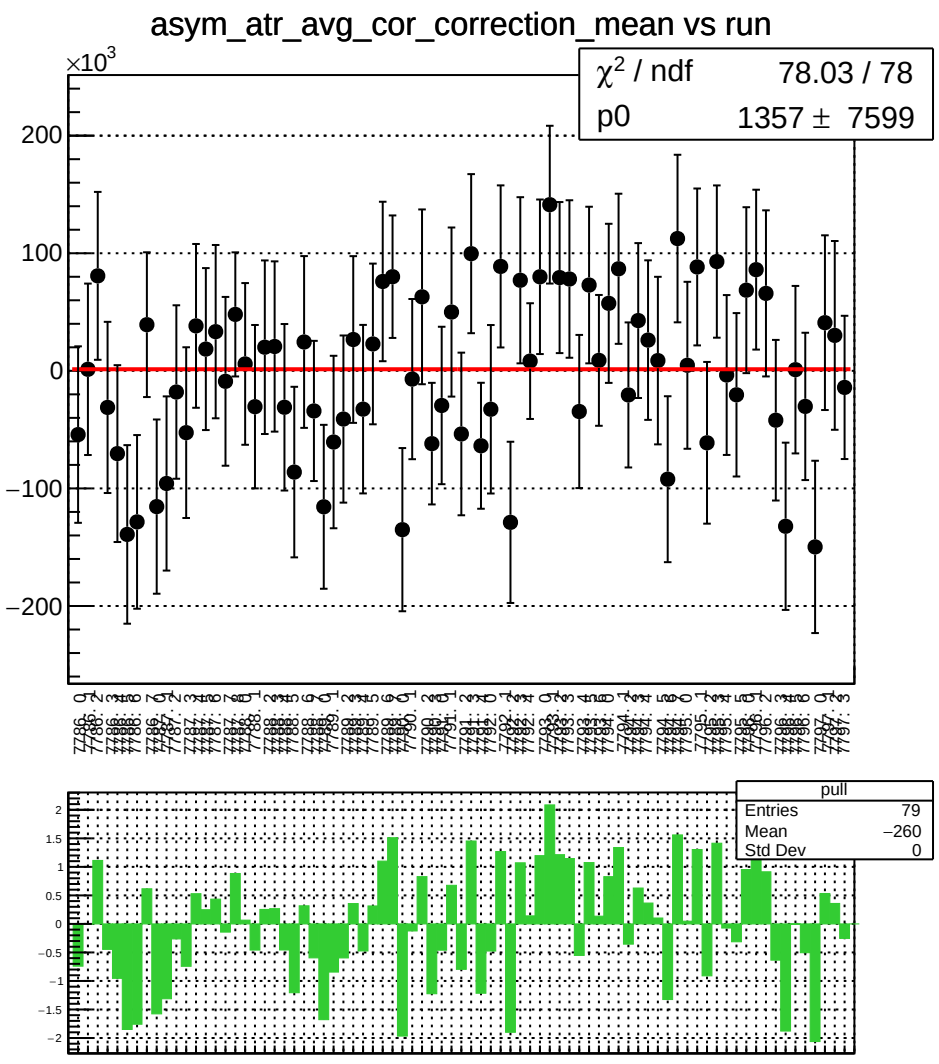

pull1D
Entries 79
Mean −0.01547
Std Dev 0.9937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

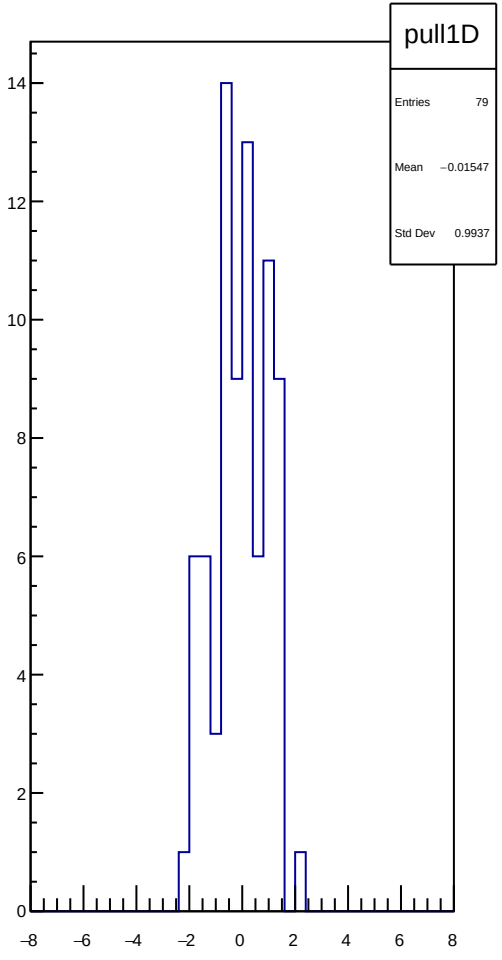

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 3200 / 78
p0 6647 ± 5.373
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

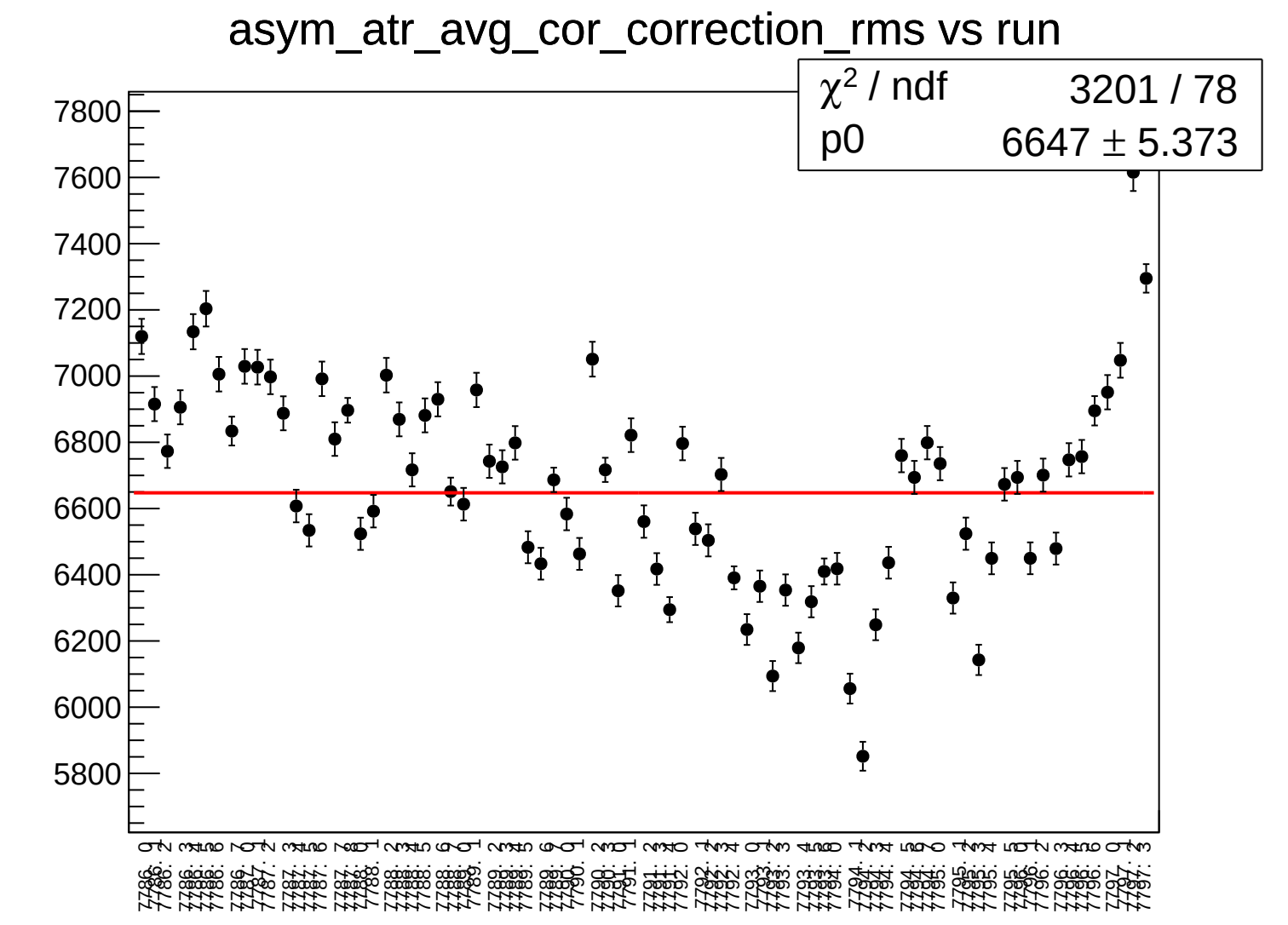

cor_asym_atr_avg_mean vs run
χ² / ndf 76.92 / 78
p0 −5678 ± 2256
pull
Entries 79
Mean 440.6
Std Dev 0

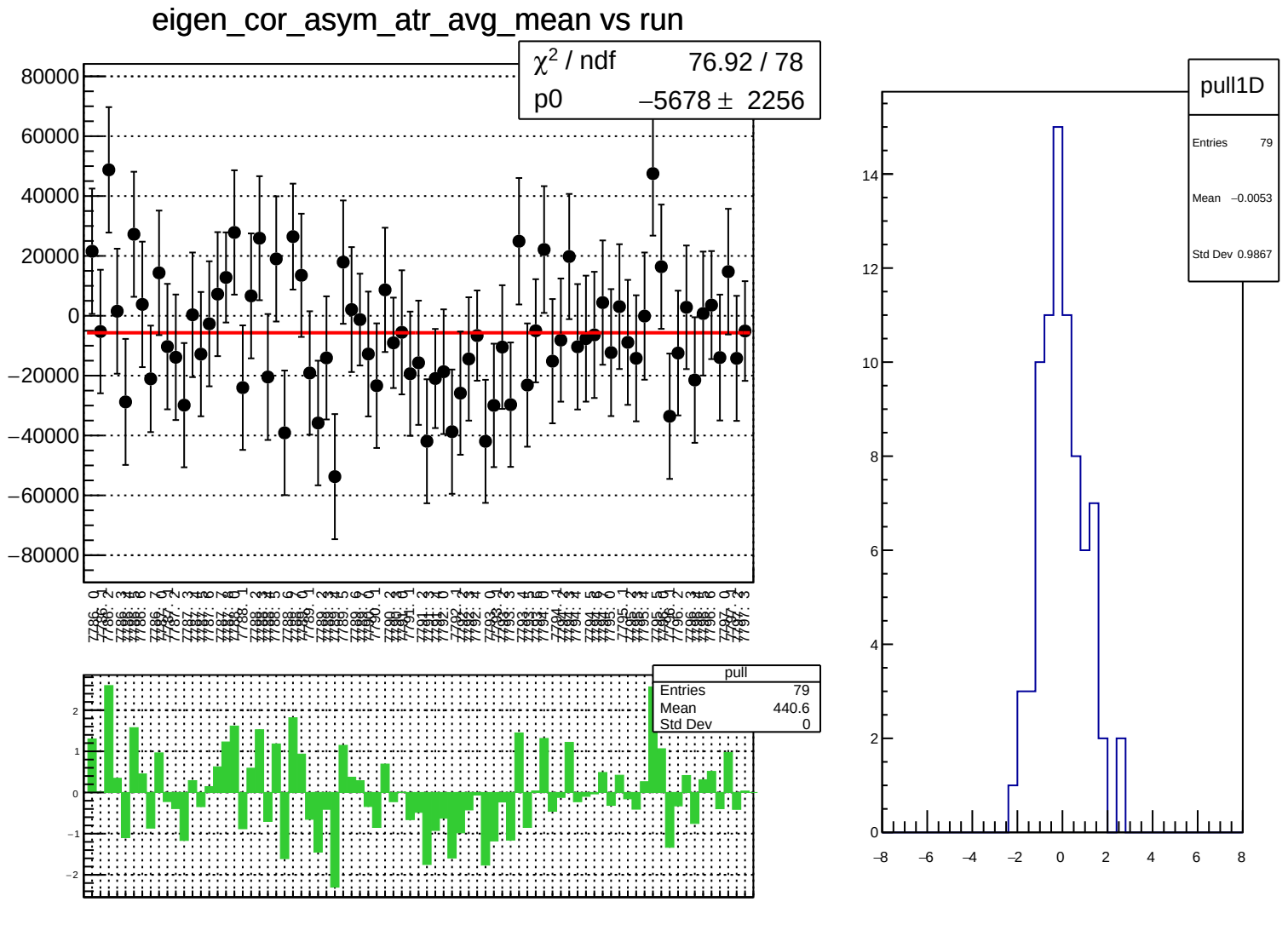

pull1D
Entries 79
Mean −0.0053
Std Dev 0.9867

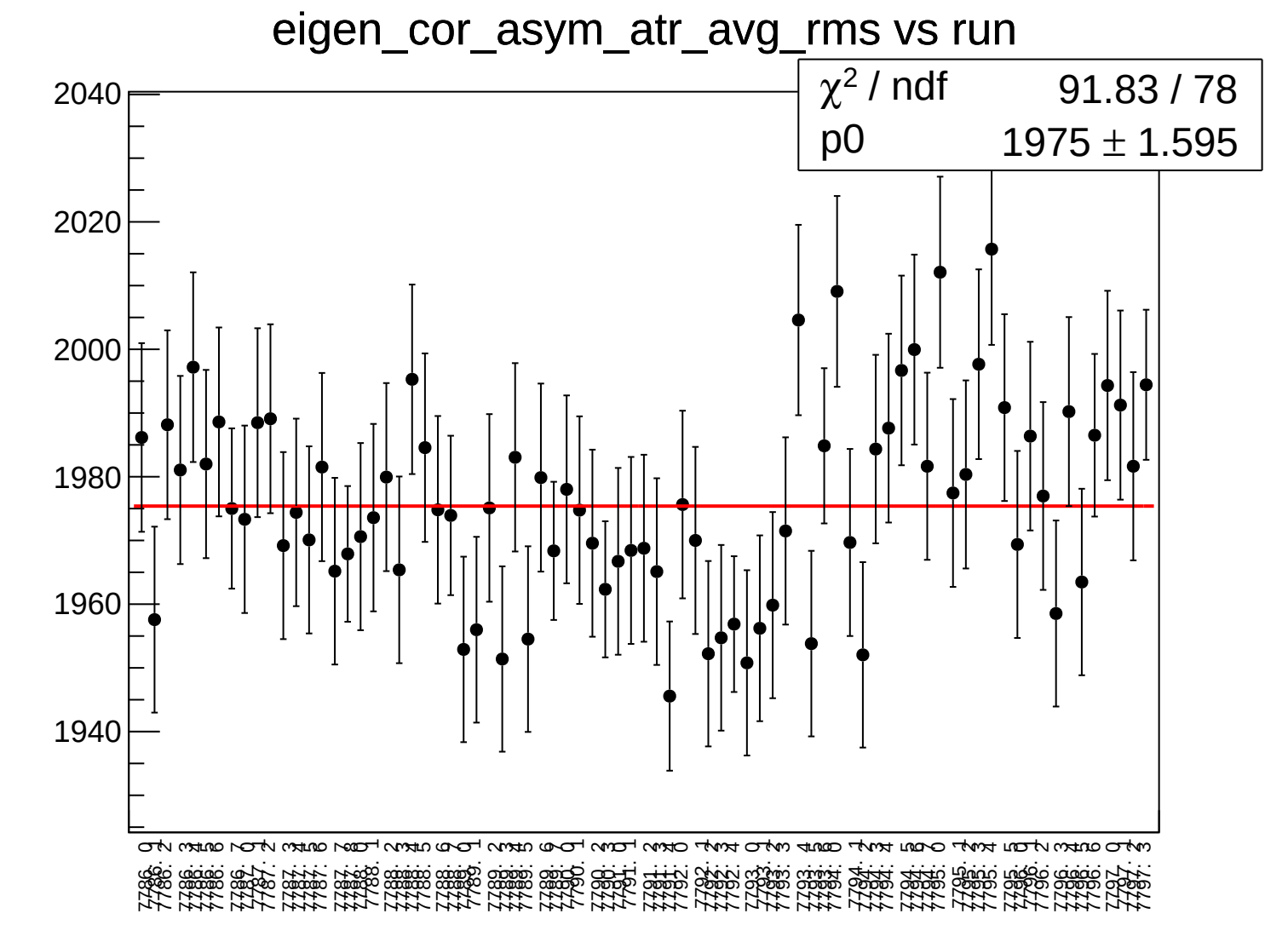

cor_asym_atr_avg_rms vs run
χ^2 / ndf 91.83 / 78
p0 1975 ± 1.595
2040
2020
2000
1980
1960
1940

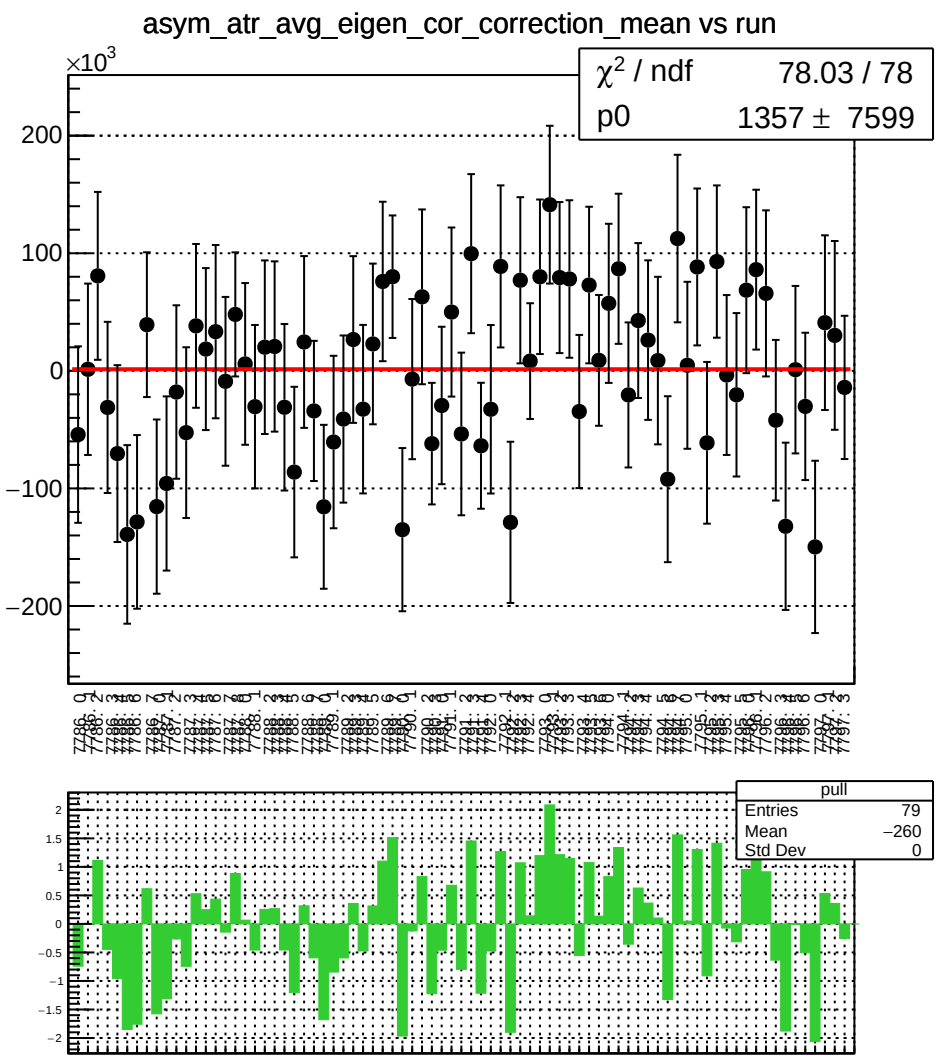

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.03 / 78
p0 1357 ± 7599
200
100
0
−100
−200
pull
Entries 79
Mean −260
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

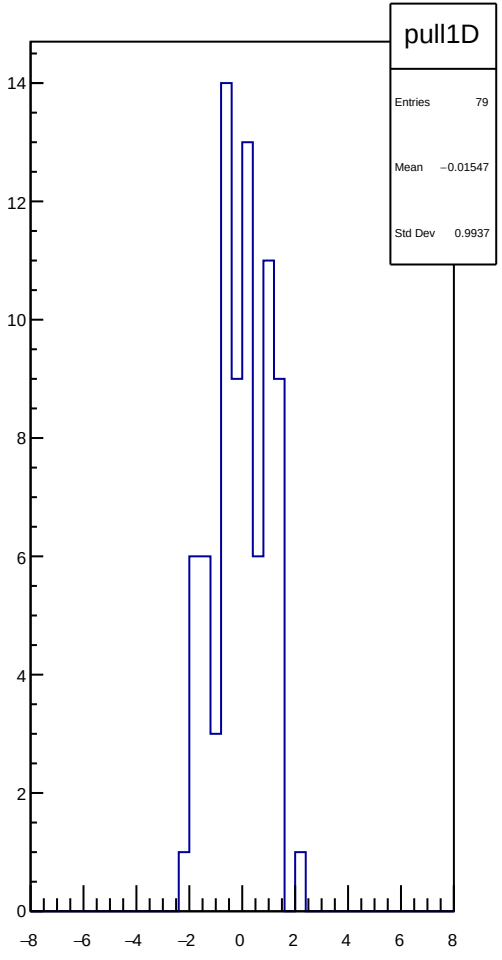

pull1D
Entries 79
Mean −0.01547
Std Dev 0.9937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

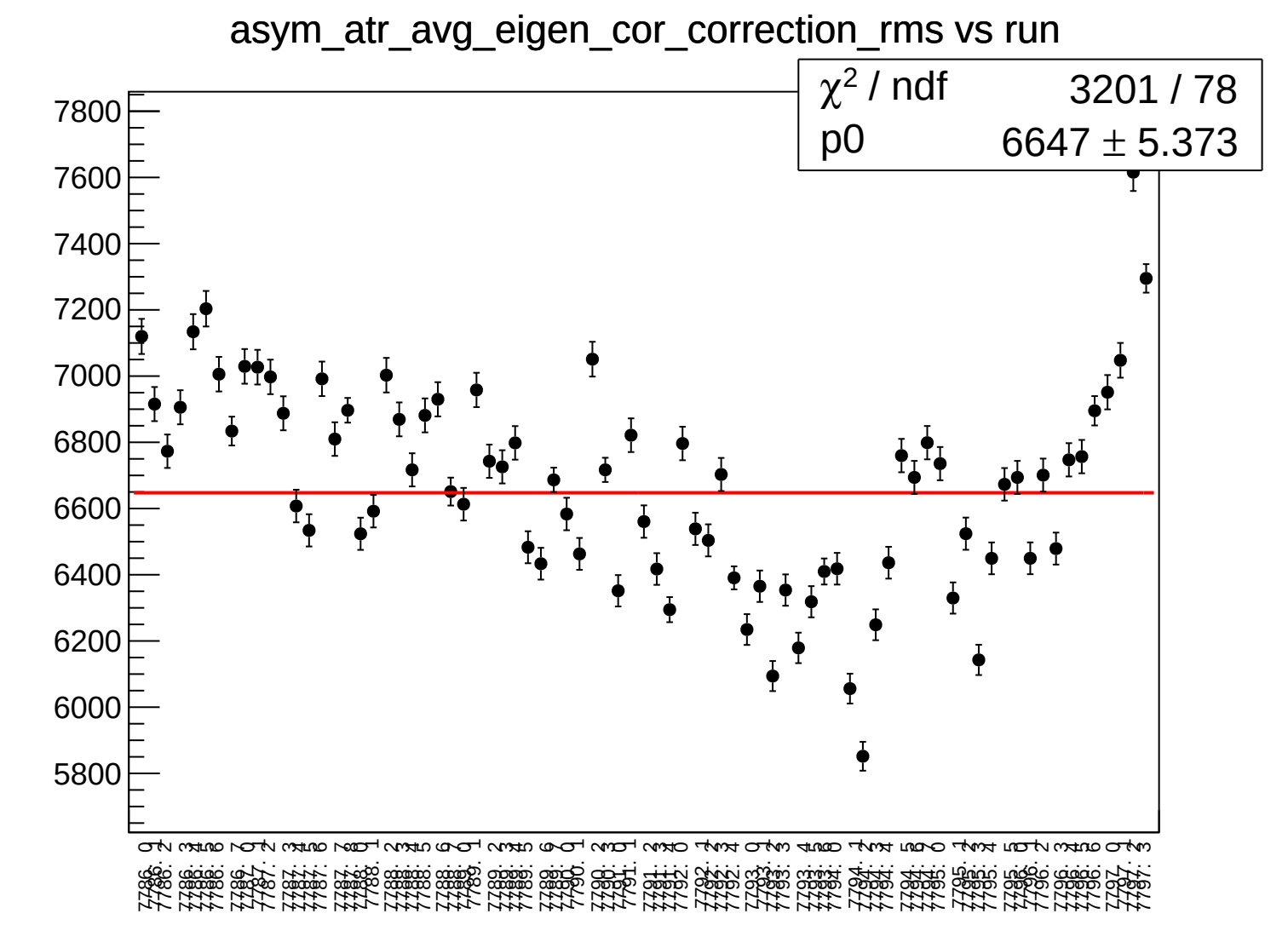

asym_atr_avg_cor_correction_rms vs run
χ^2 / ndf 3201 / 78
p0 6647 ± 5.373
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

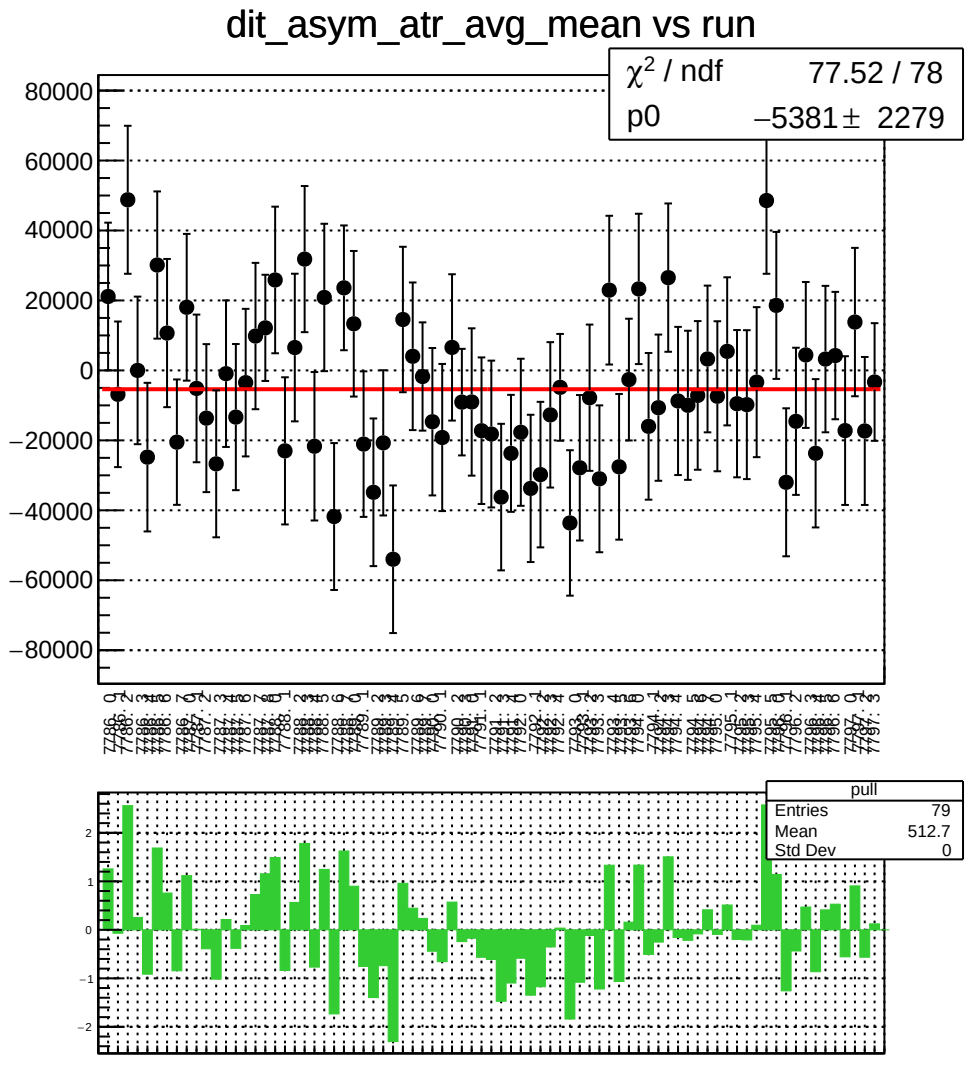

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 76.92 / 78
p0 −5678 ± 2256
pull
Entries 79
Mean 440.6
Std Dev 0
pull1D
Entries 79
Mean −0.0053
Std Dev 0.9867

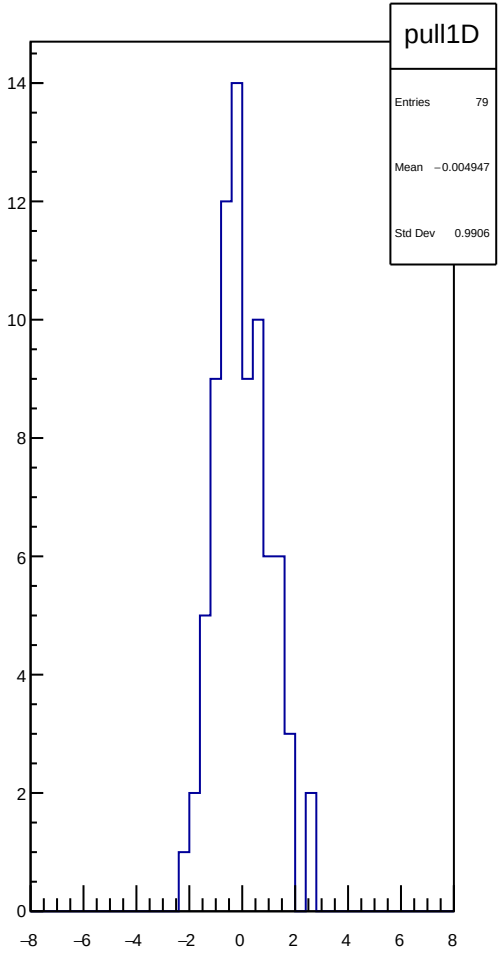

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 91.83 / 78
p0 1975 ± 1.595
2040
2020
2000
1980
1960
1940

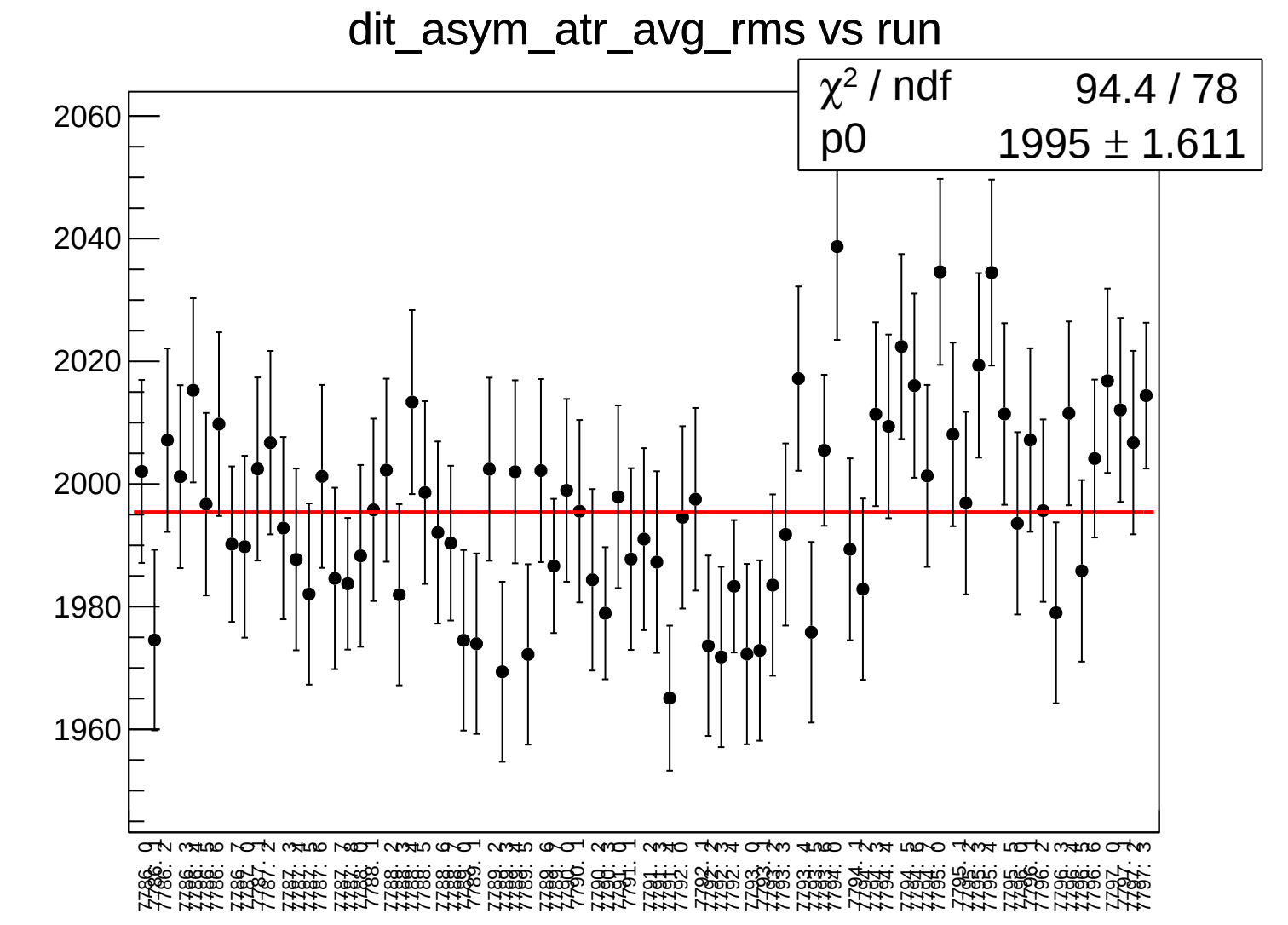

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.03 / 78
p0 1357 ± 7599
pull
Entries 79
Mean −260
Std Dev 0

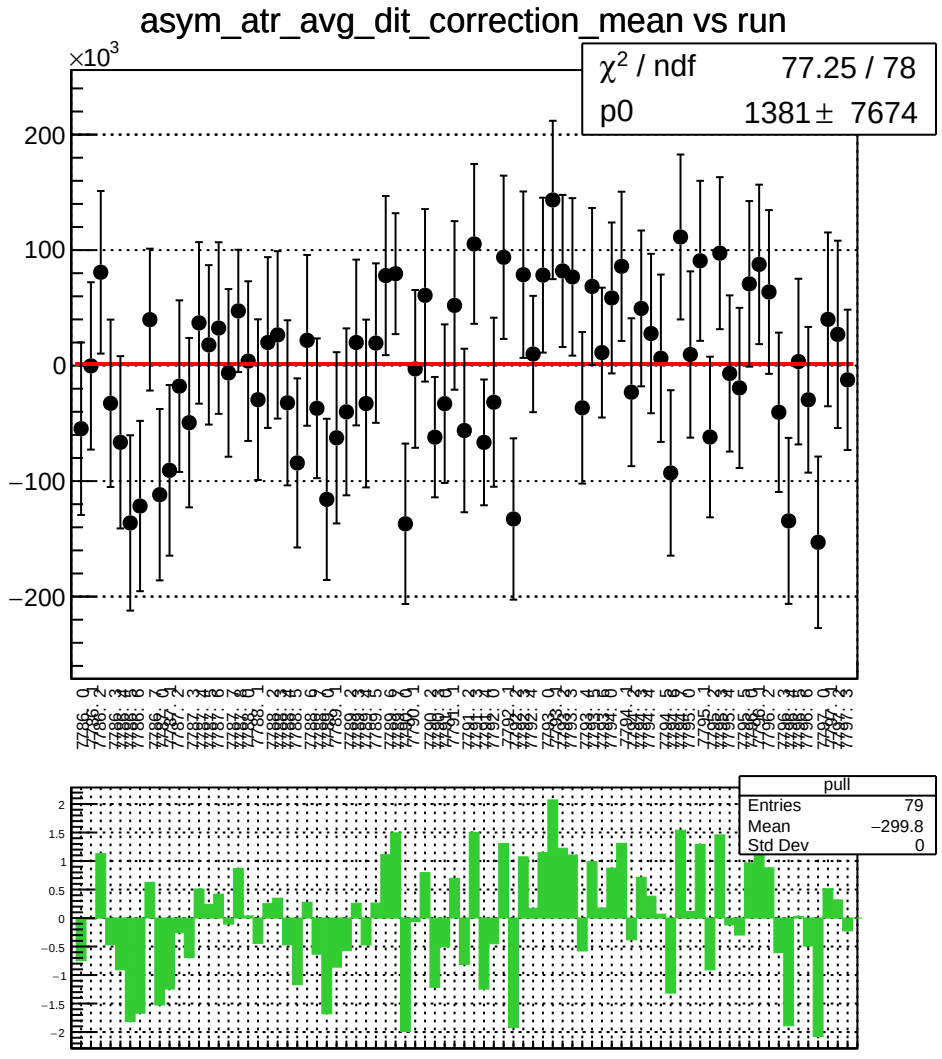

pull1D
Entries 79
Mean −0.01547
Std Dev 0.9937

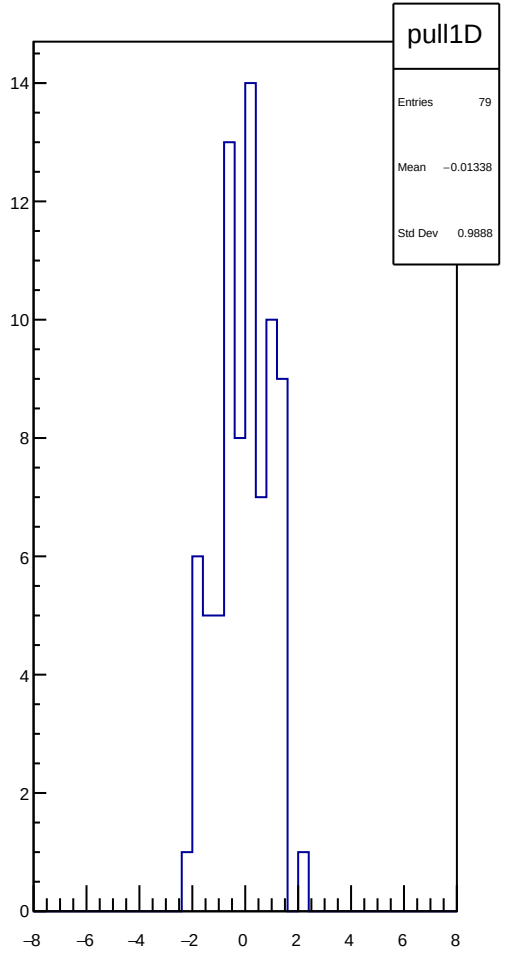

asym_atr_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3201 / 78
p0 6647 ± 5.373
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

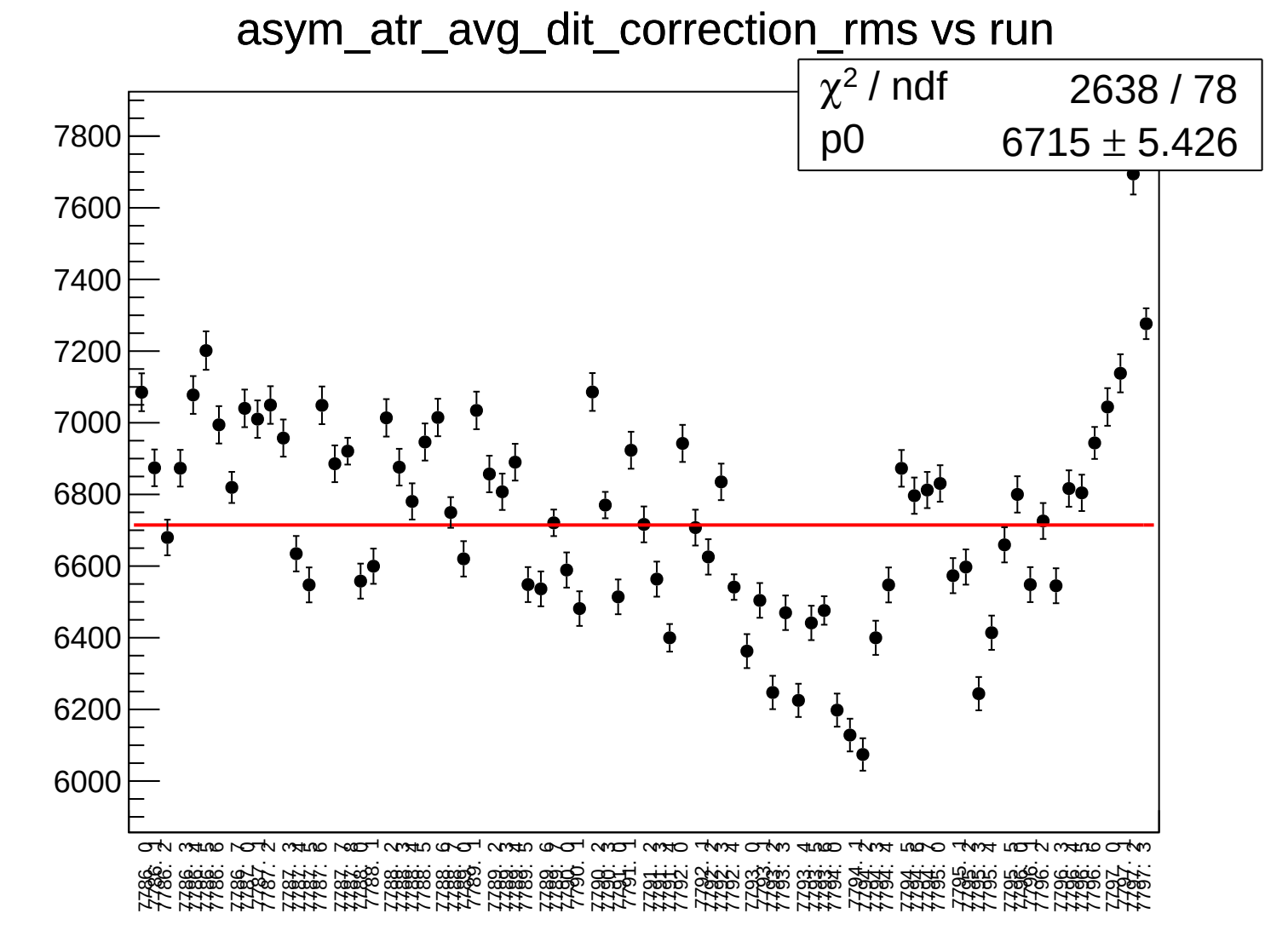

dit_asym_atr_avg_mean vs run
χ² / ndf 77.52 / 78
p0 −5381 ± 2279
pull
Entries 79
Mean 512.7
Std Dev 0

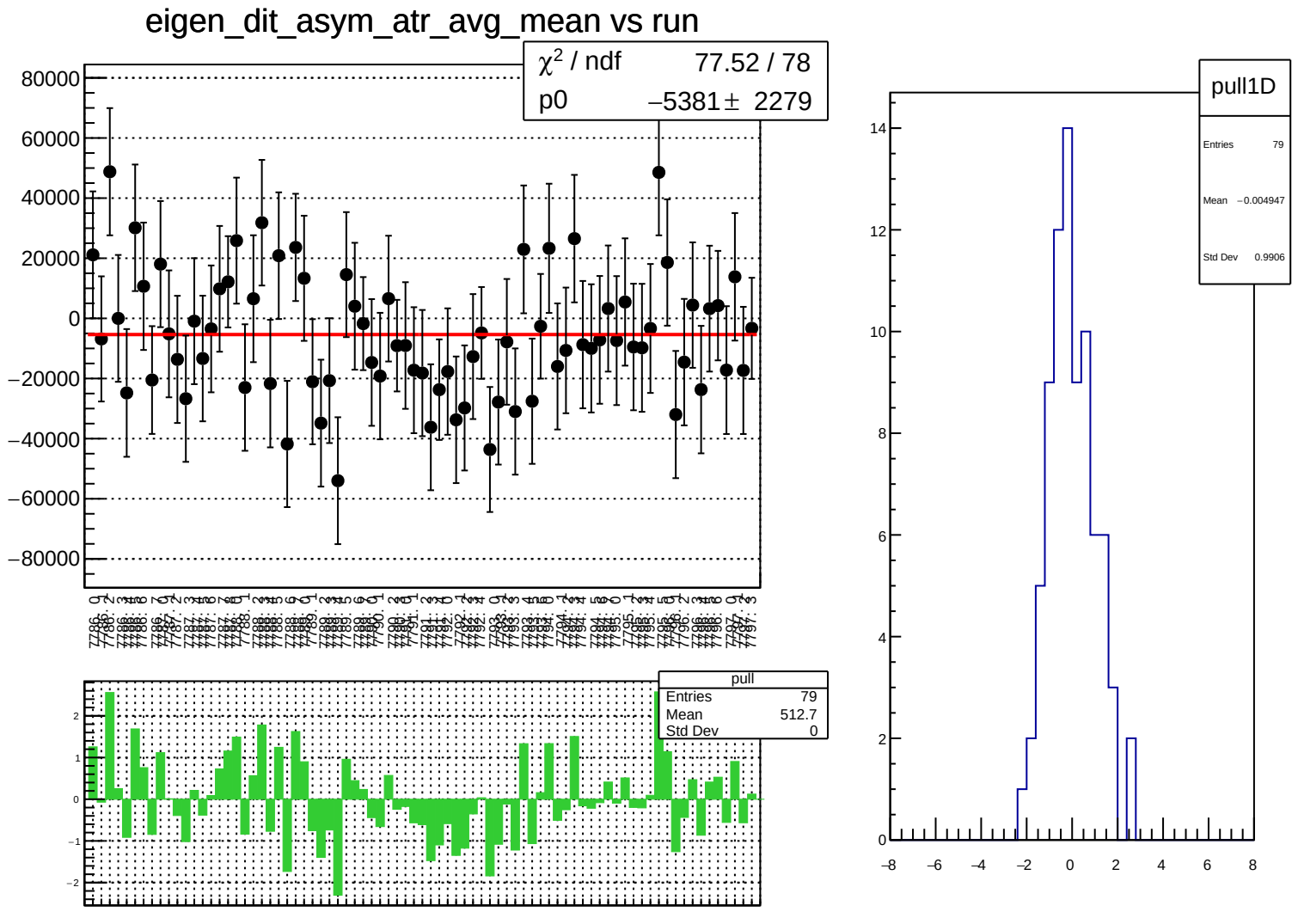

pull1D
Entries 79
Mean −0.004947
Std Dev 0.9906

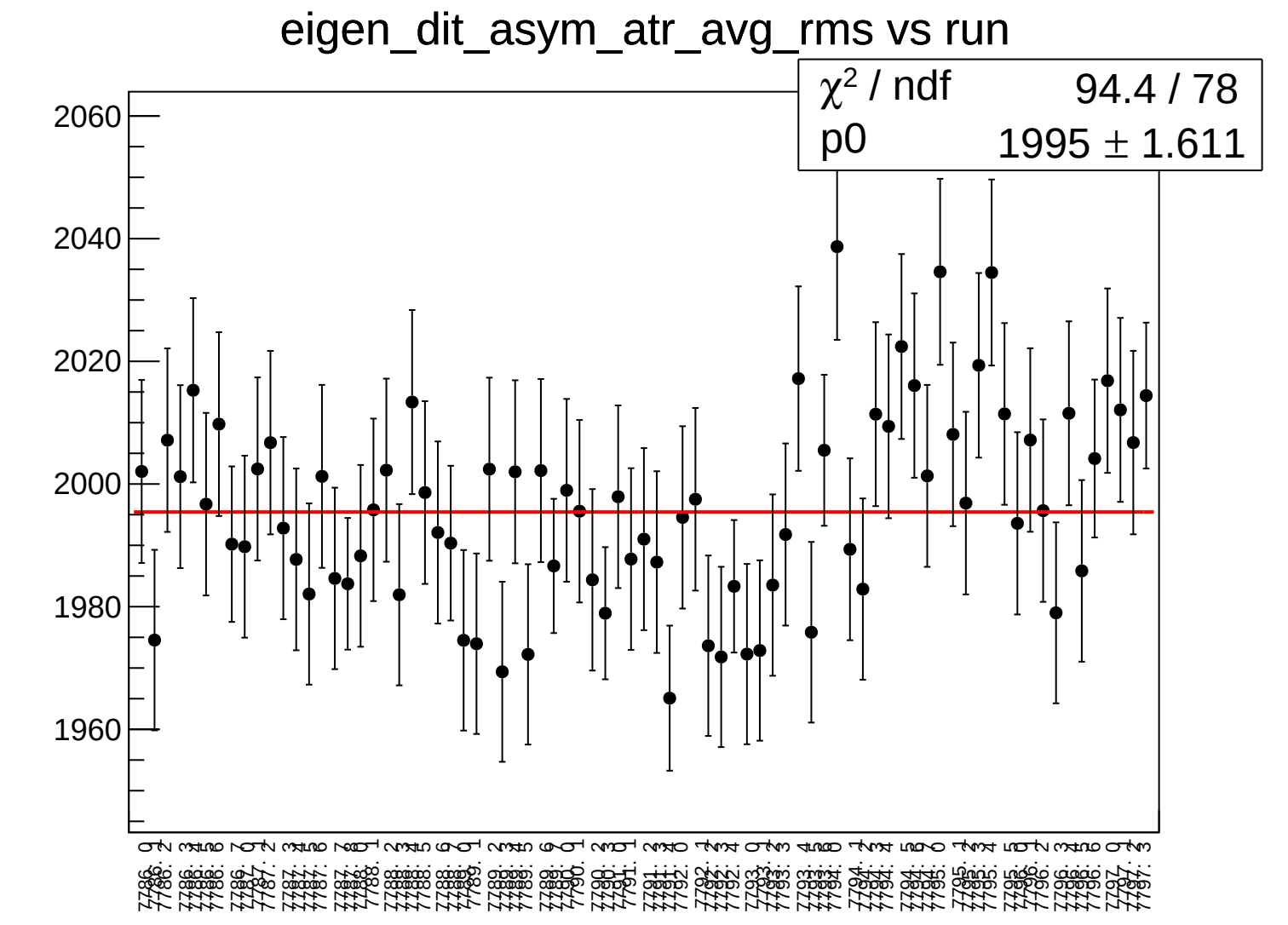

dit_asym_atr_avg_rms vs run
χ² / ndf 94.4 / 78
p0 1995 ± 1.611
2060
2040
2020
2000
1980
1960

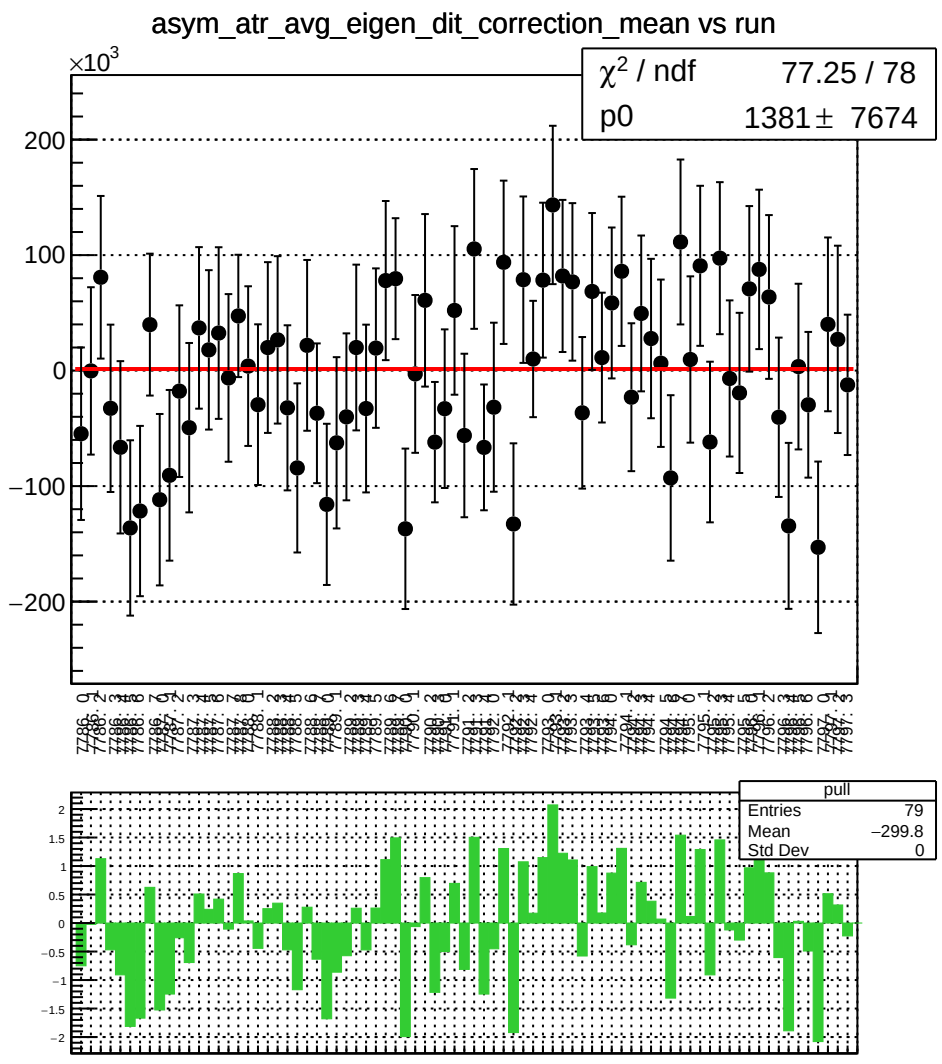

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.25 / 78
p0 1381 ± 7674
200
100
0
−100
−200
pull
Entries 79
Mean −299.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

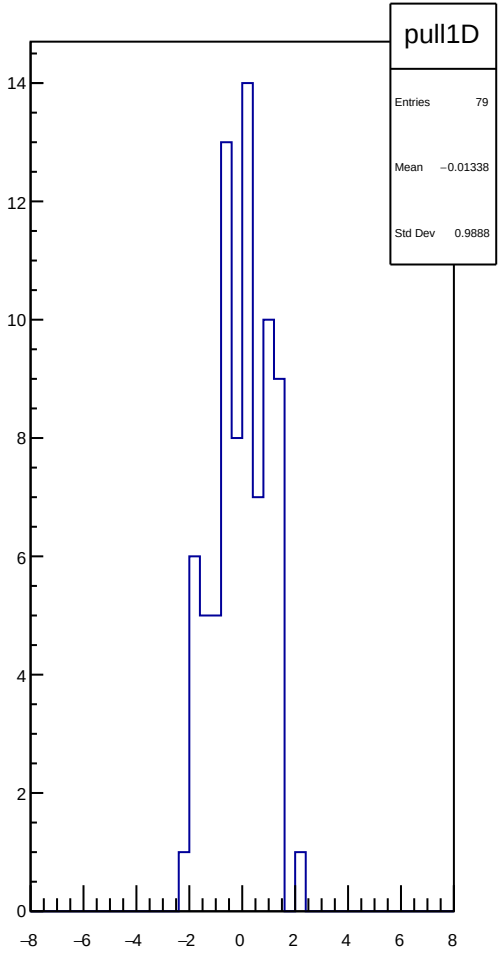

pull1D
Entries 79
Mean −0.01338
Std Dev 0.9888
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

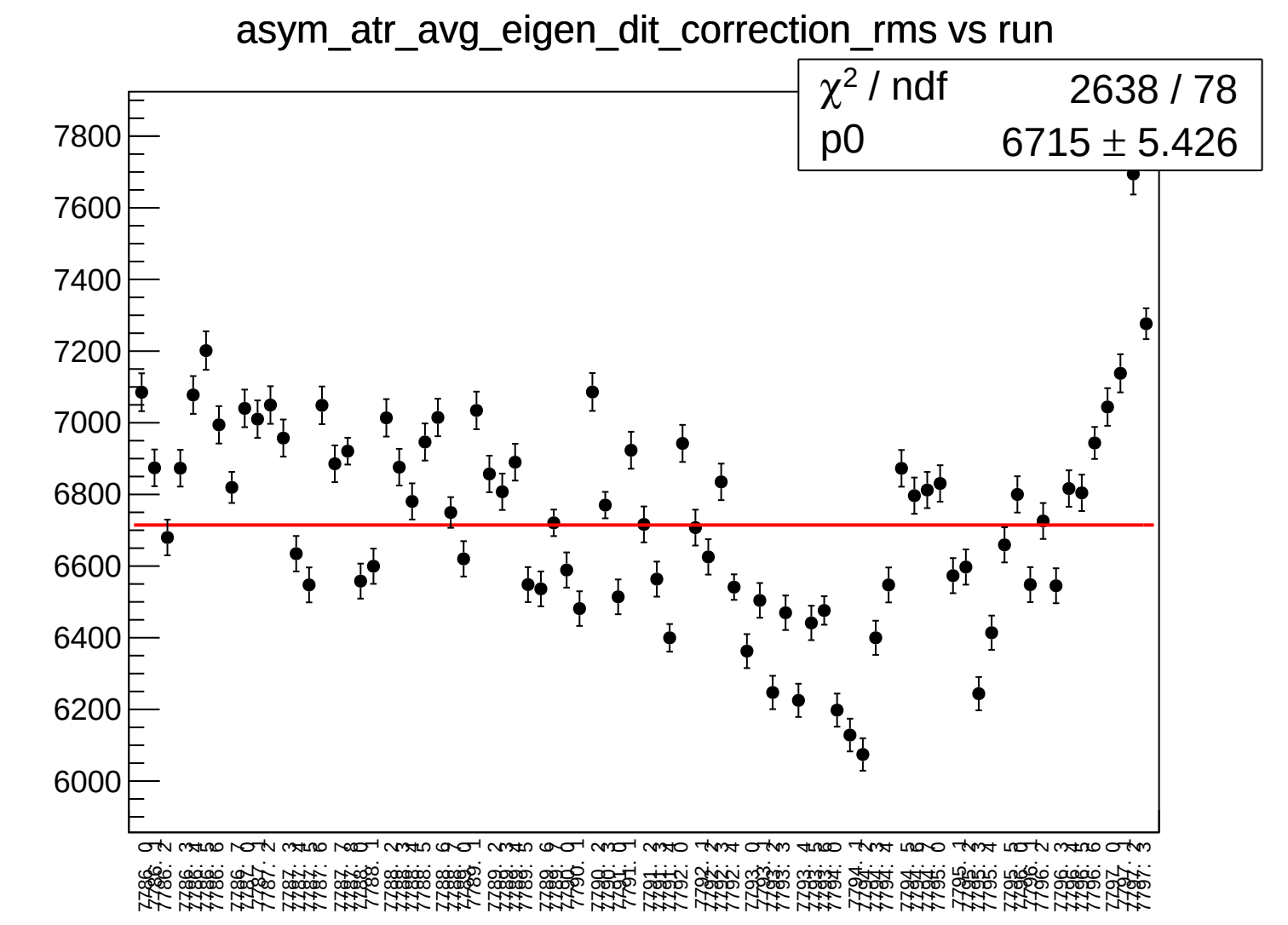

asym_atr_avg_dit_correction_rms vs run
χ^2 / ndf 2638 / 78
p0 6715 ± 5.426
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

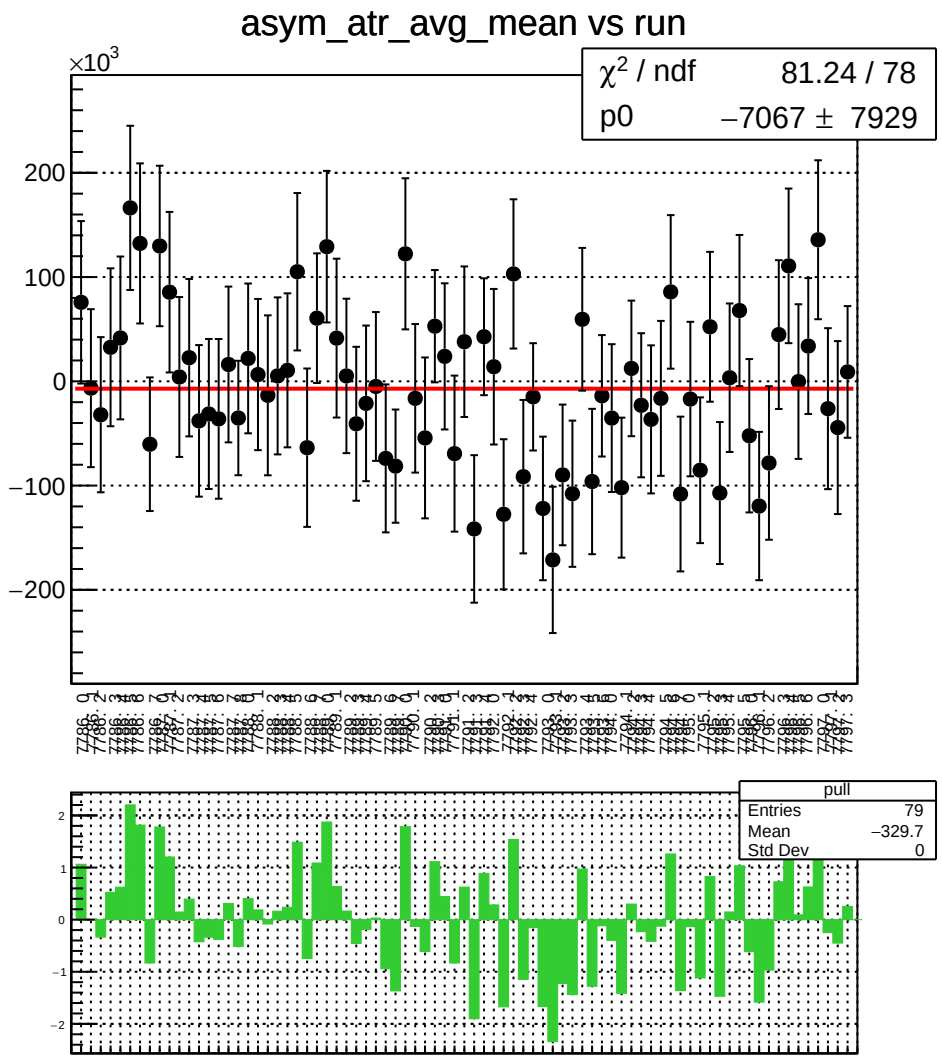

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 77.52 / 78
p0 −5381 ± 2279
pull
Entries 79
Mean 512.7
Std Dev 0
pull1D
Entries 79
Mean −0.004947
Std Dev 0.9906

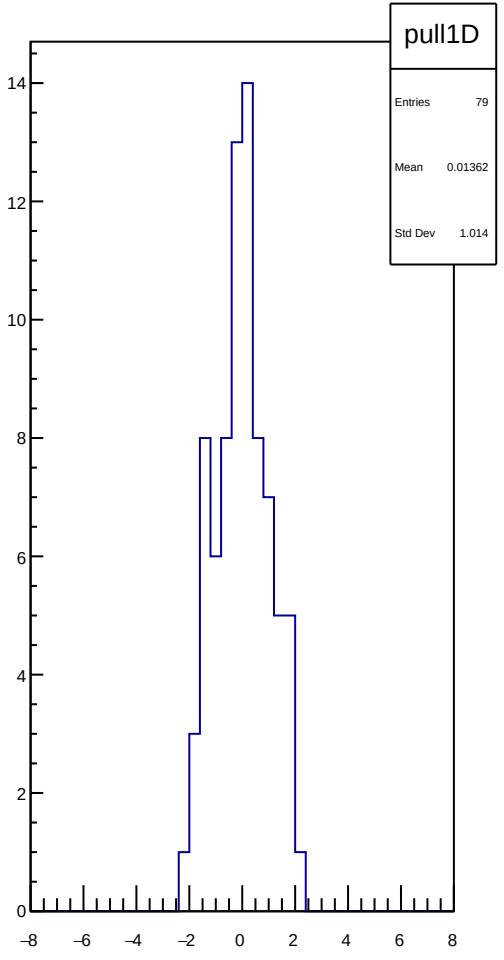

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 94.4 / 78
p0 1995 ± 1.611
2060
2040
2020
2000
1980
1960

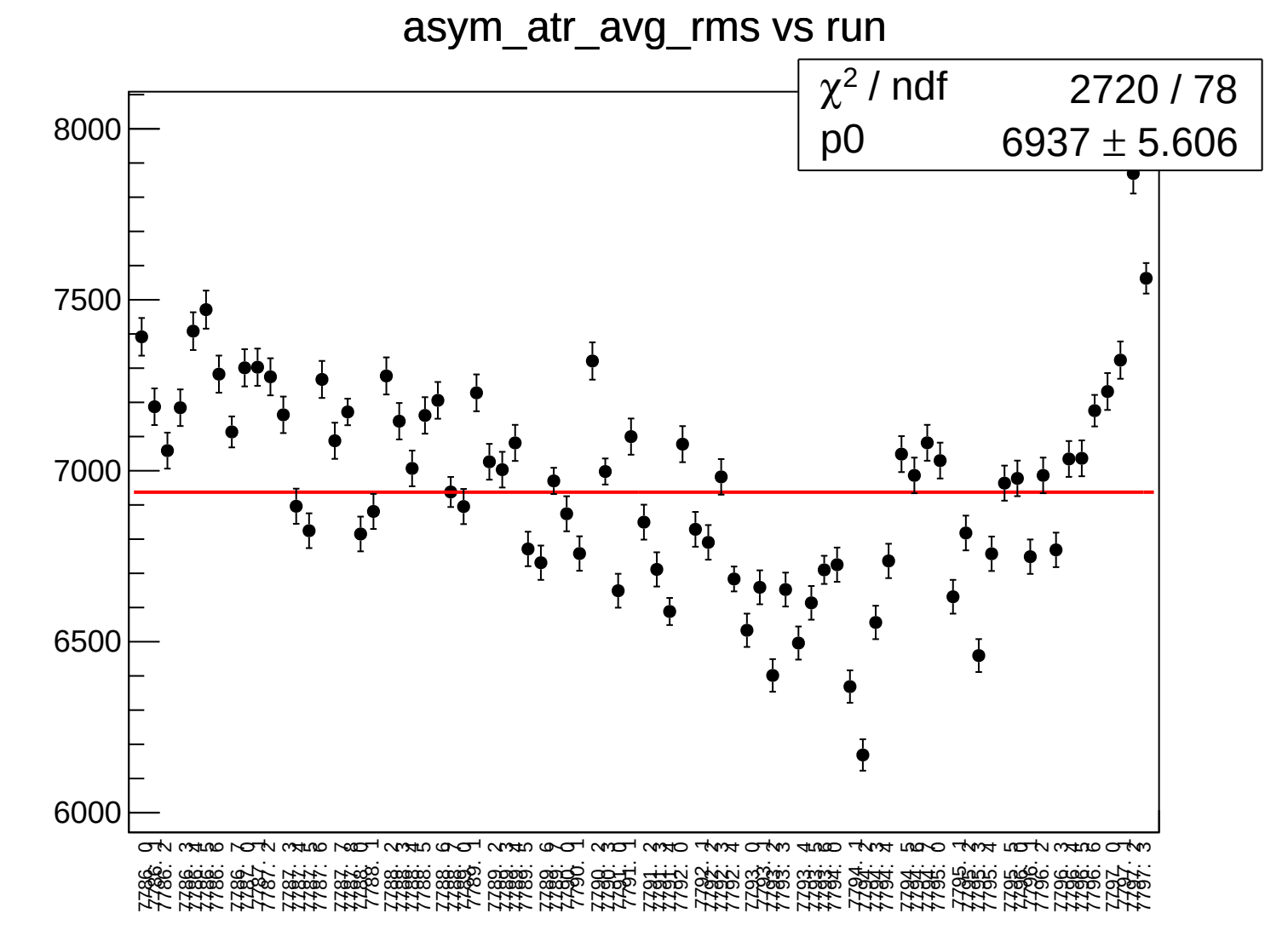

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.25 / 78
p0 1381 ± 7674
200
100
0
−100
−200
pull
Entries 79
Mean −299.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

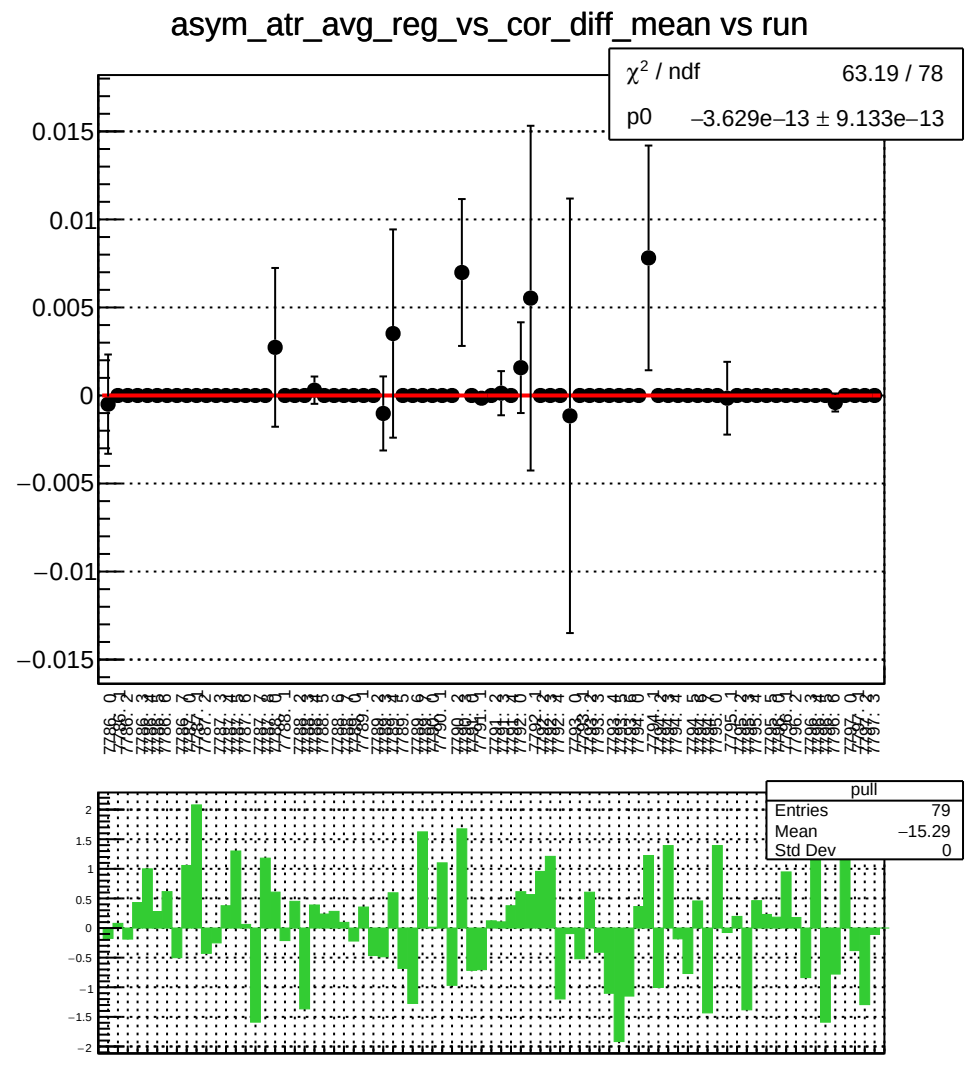

pull1D
Entries 79
Mean −0.01338
Std Dev 0.9888
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

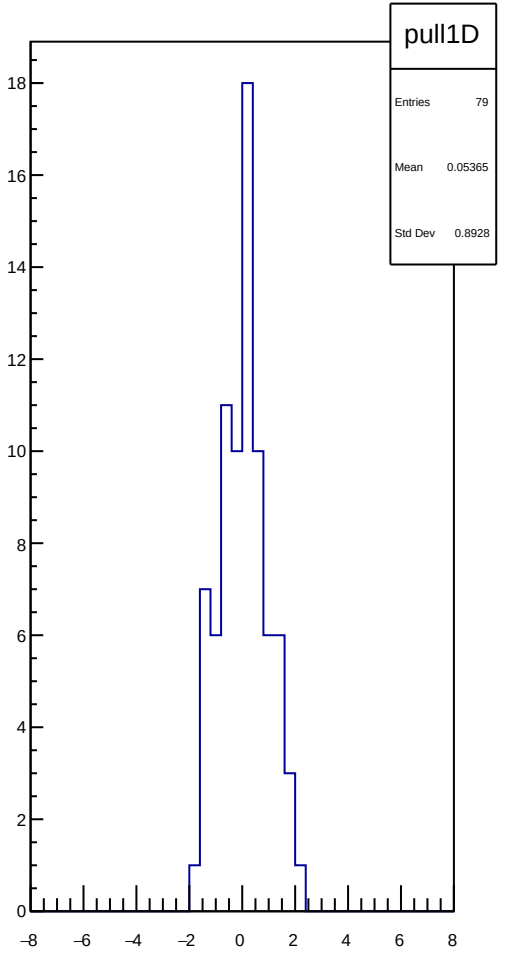

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 2638 / 78
p0 6715 ± 5.426
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

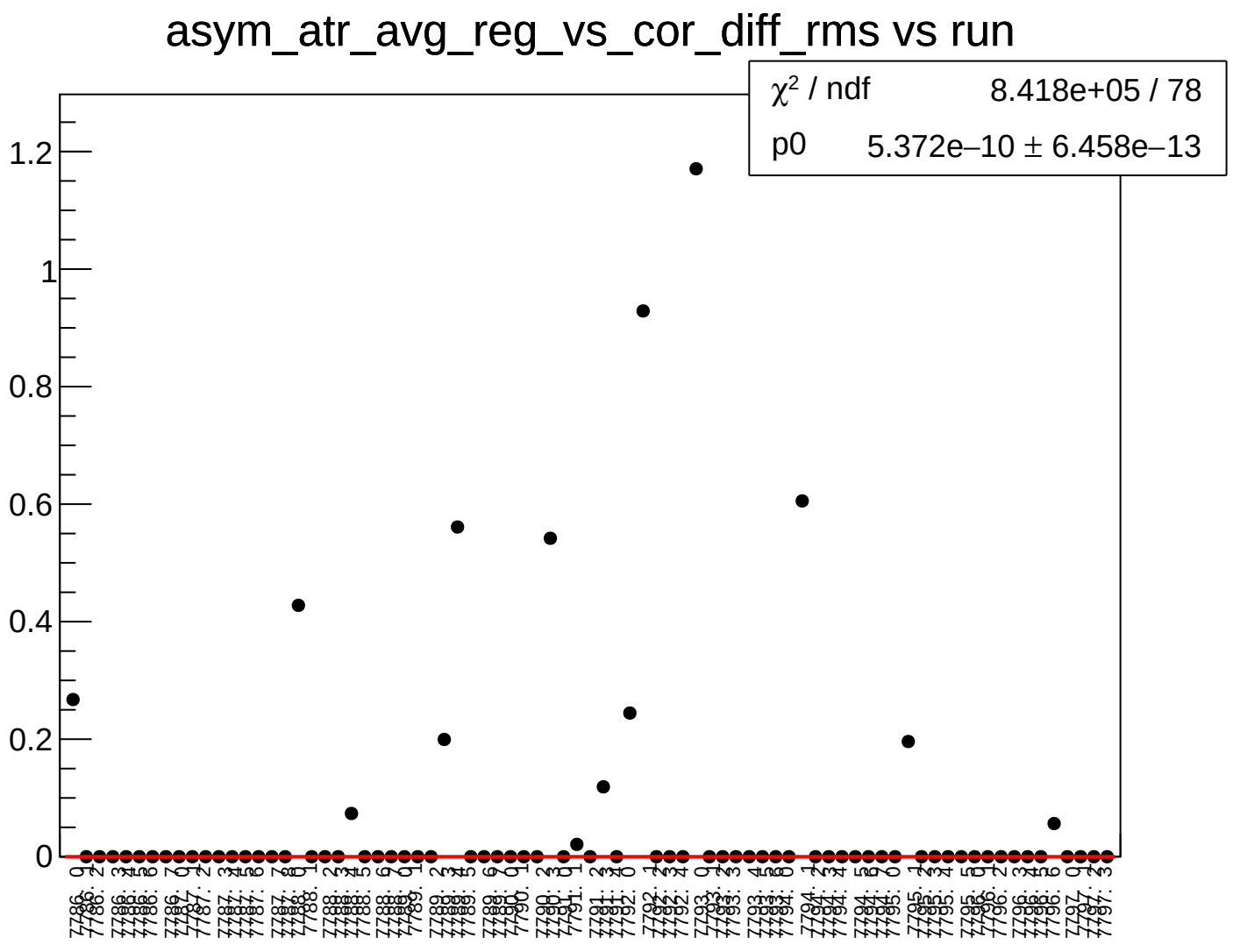

asym_atr_avg_mean vs run
×10^3
χ² / ndf 81.24 / 78
p0 −7067 ± 7929
200
100
0
−100
−200
pull
Entries 79
Mean −329.7
Std Dev 0
2
1
0
−1
−2

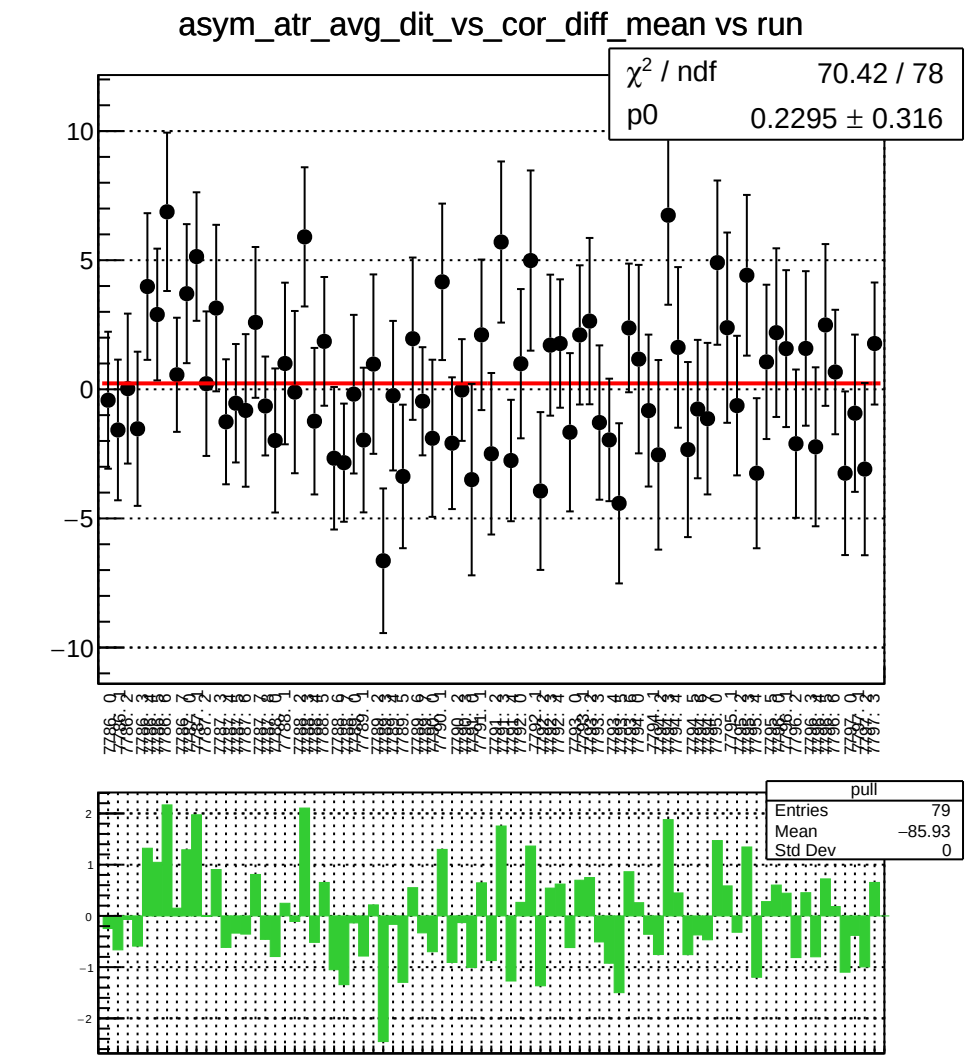

pull1D
Entries 79
Mean 0.01362
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

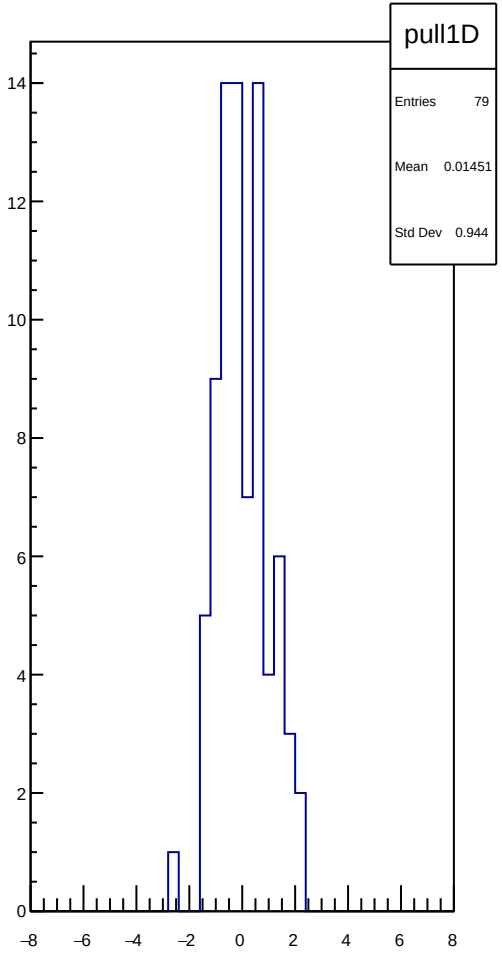

asym_atr_avg_rms vs run
χ^2 / ndf 2720 / 78
p0 6937 ± 5.606
8000
7500
7000
6500
6000

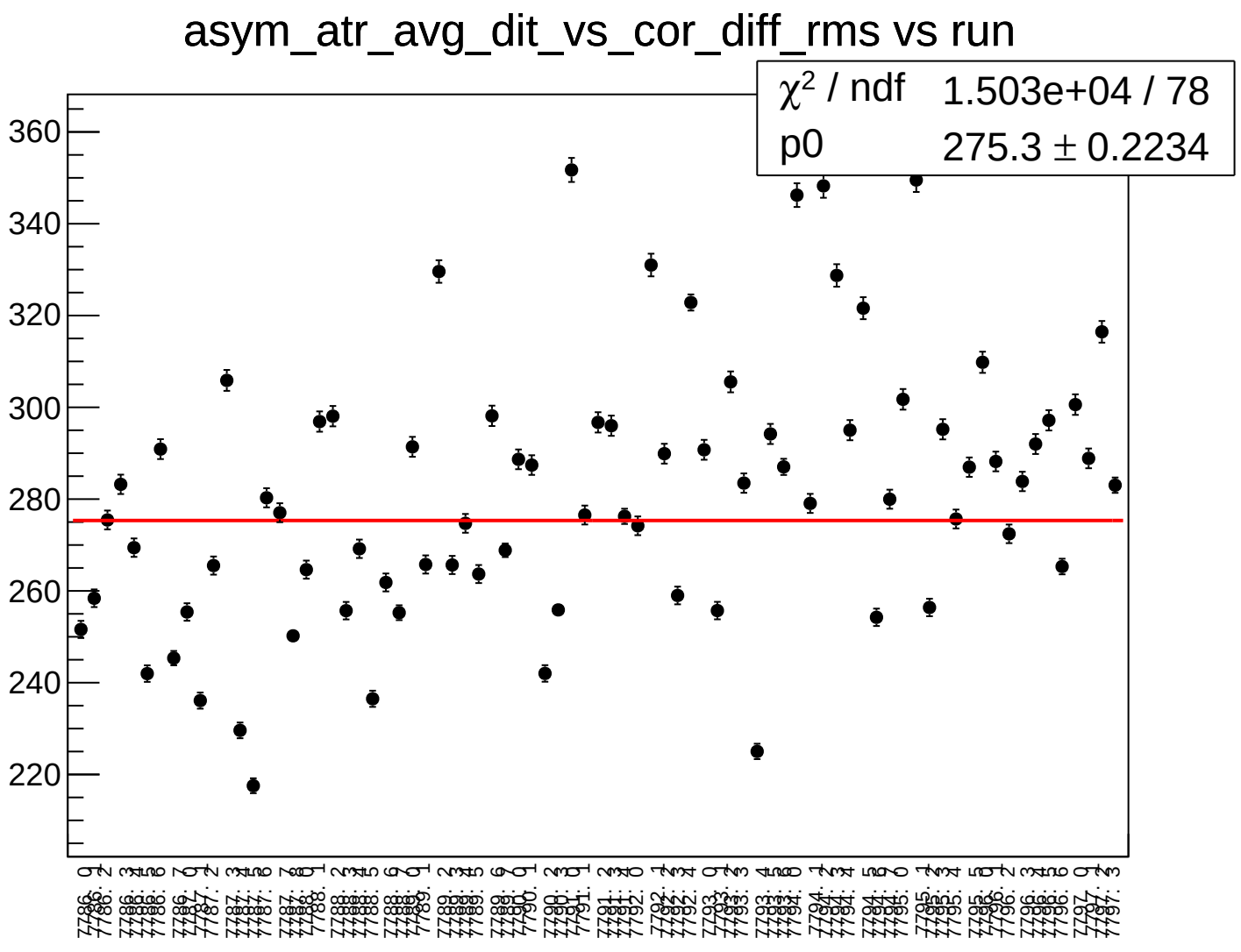

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 63.19 / 78
p0 −3.629e−13 ± 9.133e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 79
Mean −15.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

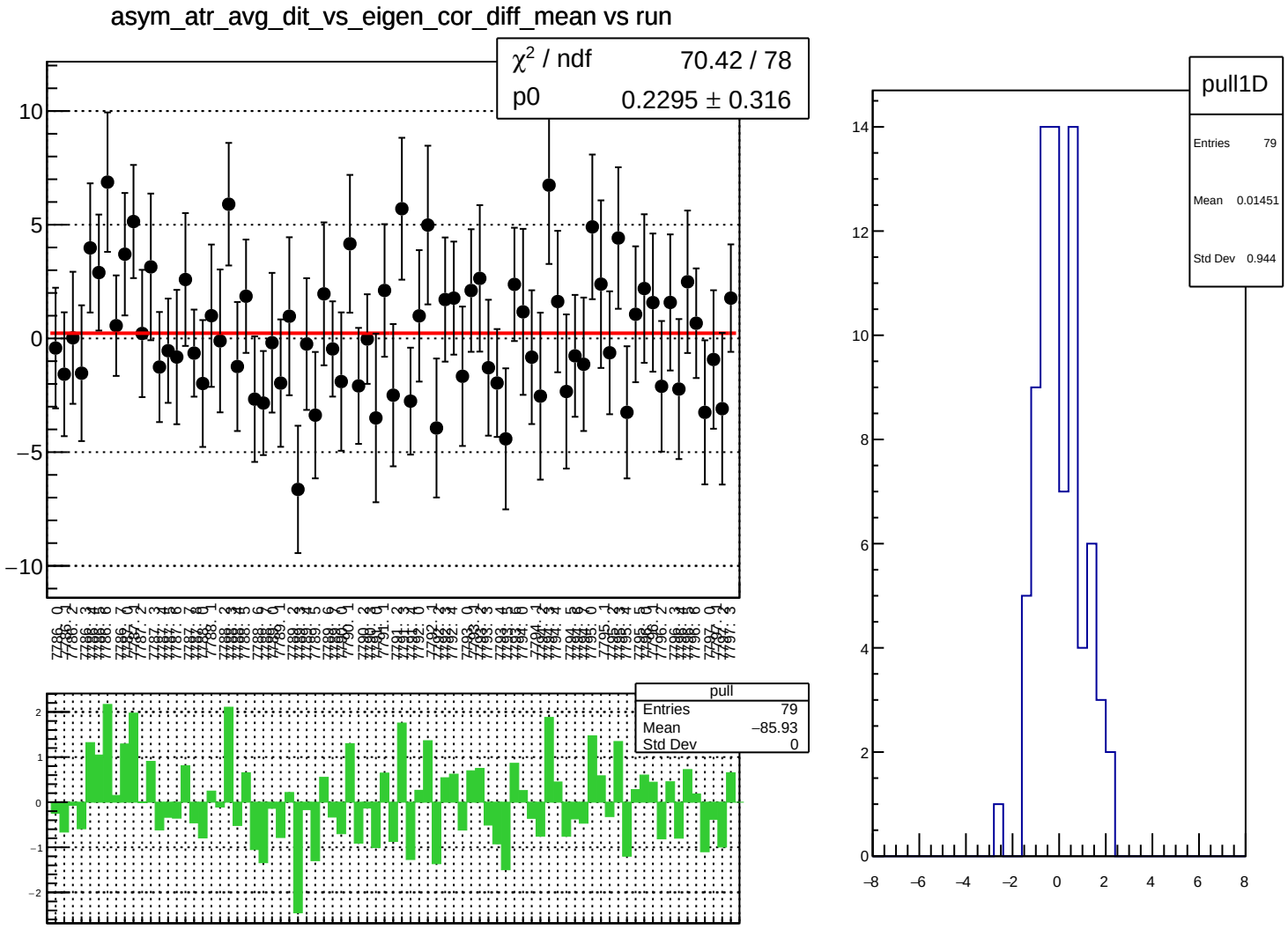

pull1D
Entries 79
Mean 0.05365
Std Dev 0.8928
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

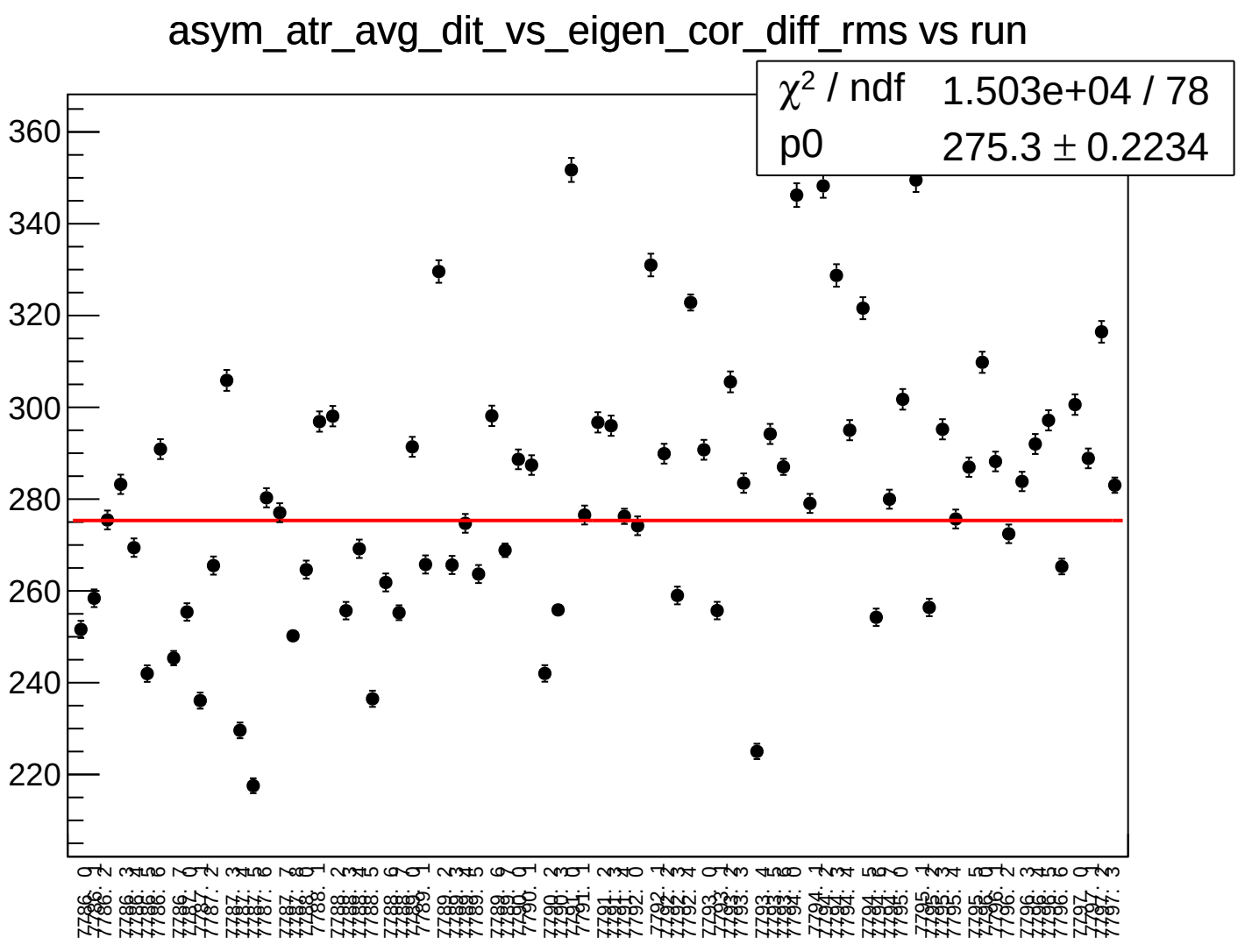

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.418e+05 / 78
p0 5.372e−10 ± 6.458e−13
1.2
1
0.8
0.6
0.4
0.2
0

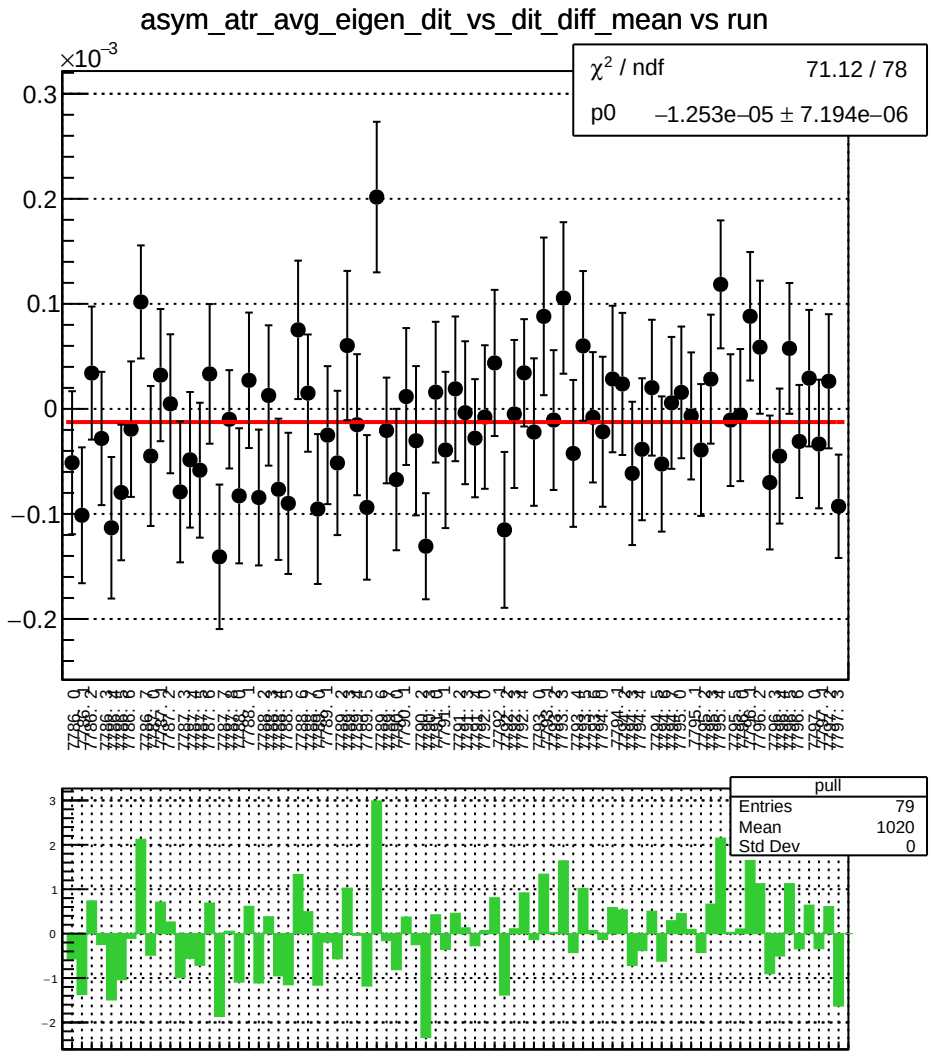

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.42 / 78
p0 0.2295 ± 0.316
pull
Entries 79
Mean −85.93
Std Dev 0

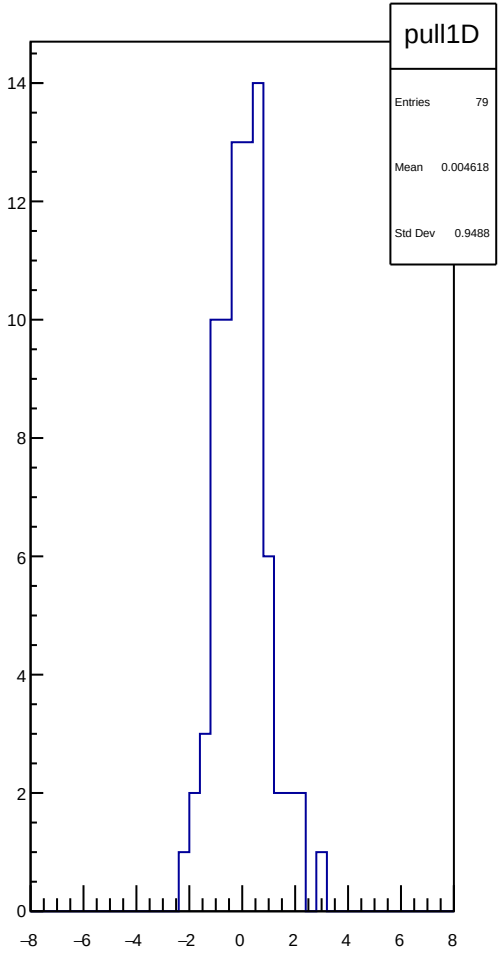

pull1D
Entries 79
Mean 0.01451
Std Dev 0.944

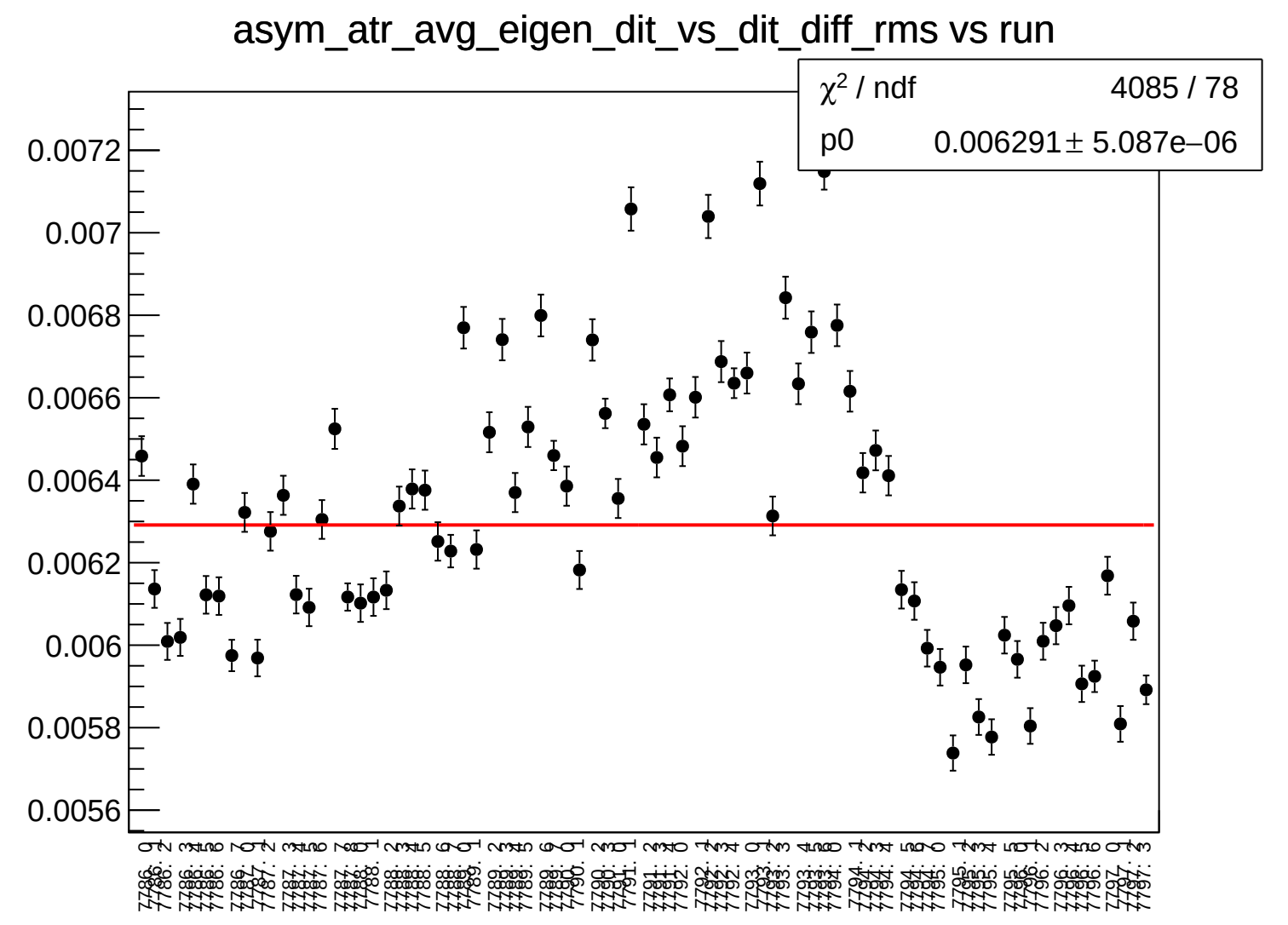

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 78
p0 275.3 ± 0.2234
360
340
320
300
280
260
240
220

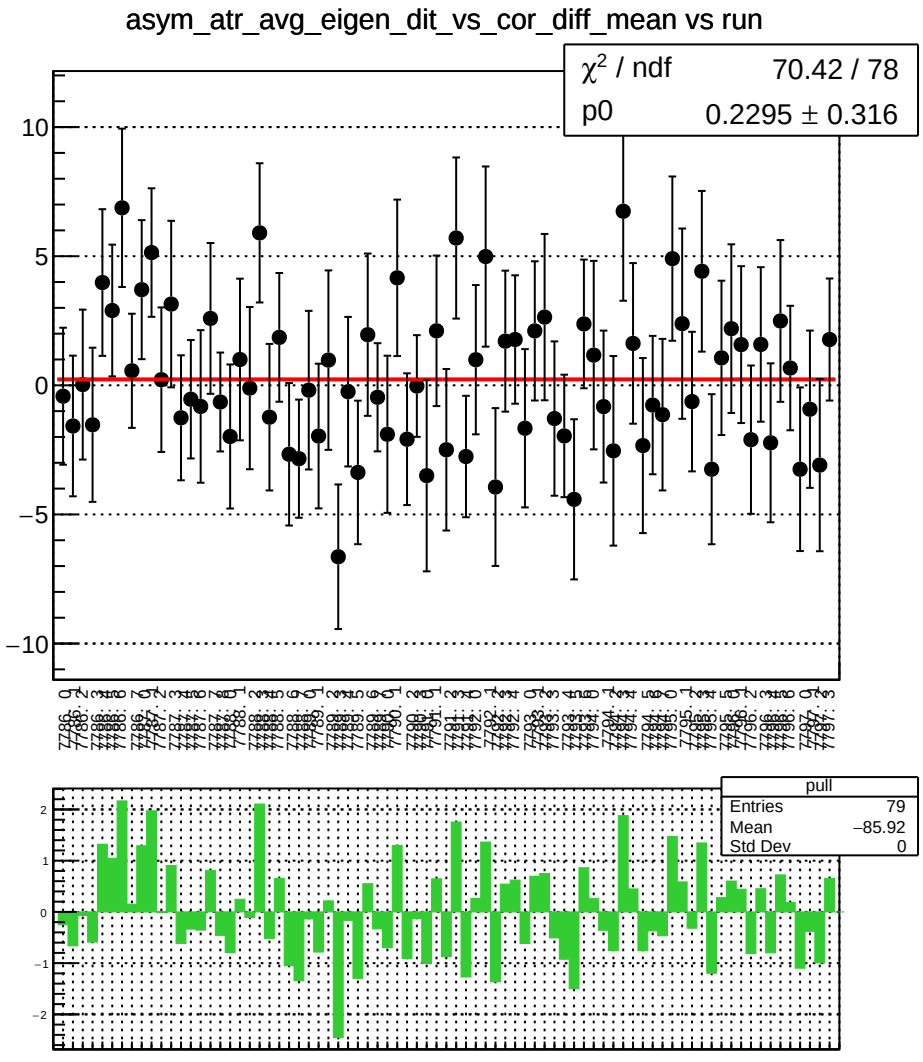

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.42 / 78
p0 0.2295 ± 0.316
pull
Entries 79
Mean −85.93
Std Dev 0
pull1D
Entries 79
Mean 0.01451
Std Dev 0.944

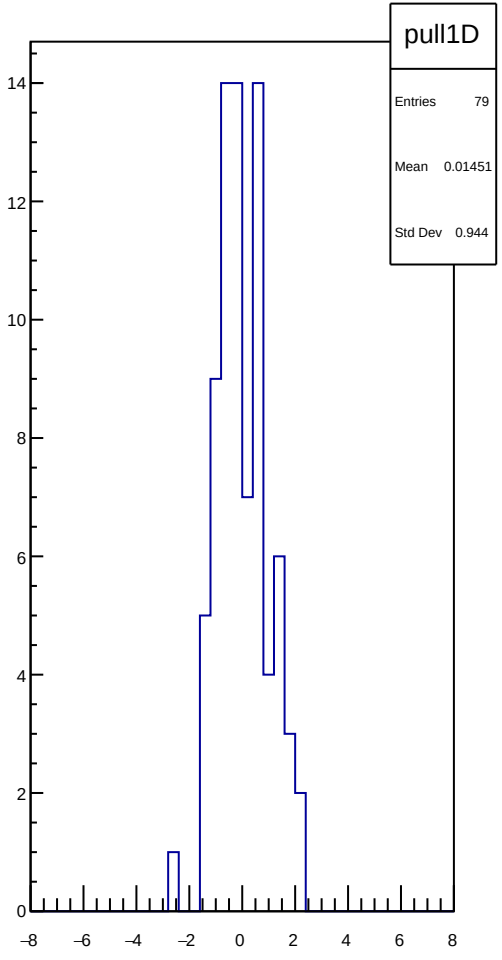

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 78
p0 275.3 ± 0.2234
360
340
320
300
280
260
240
220

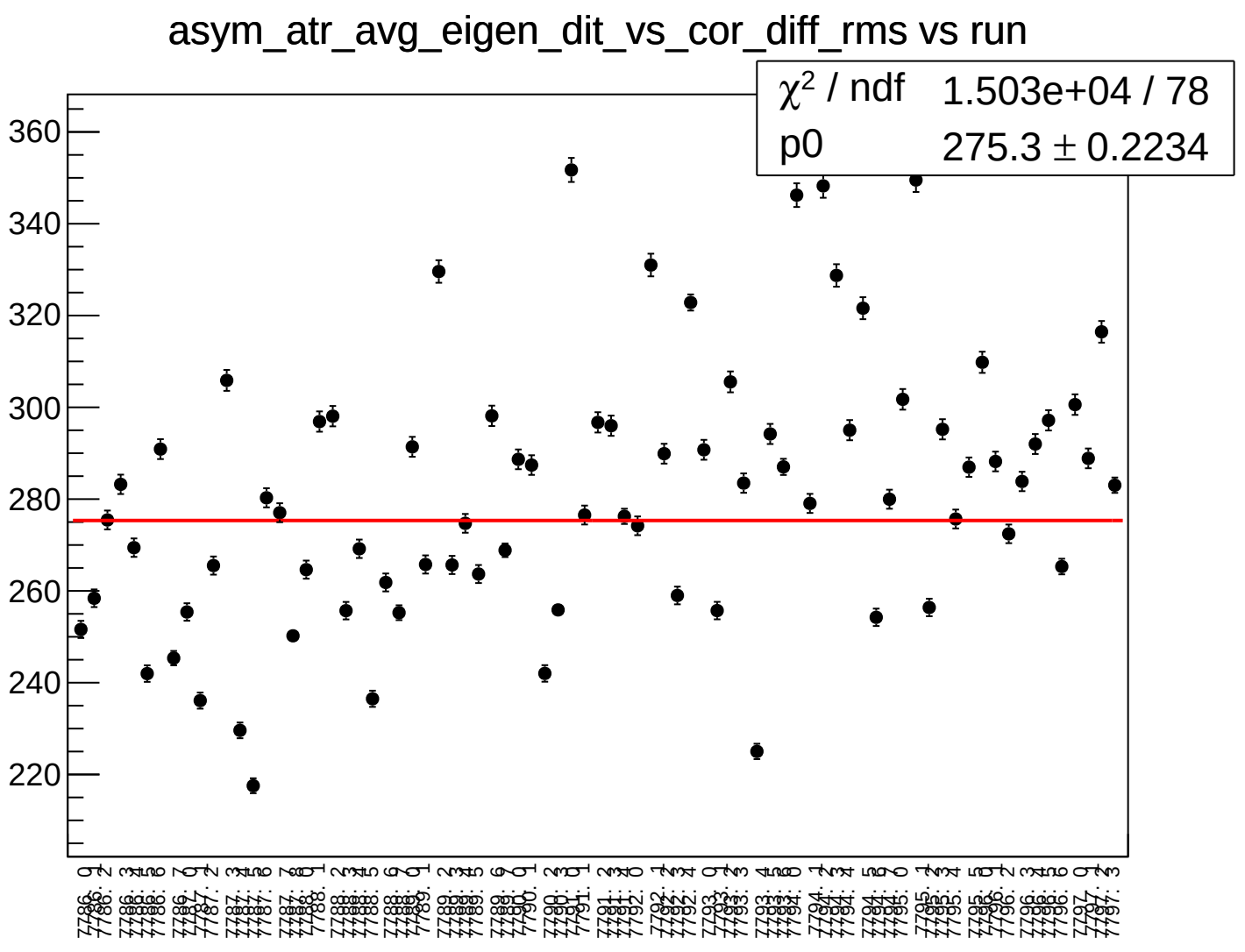

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.12 / 78
p0 −1.253e−05 ± 7.194e−06
pull
Entries 79
Mean 1020
Std Dev 0

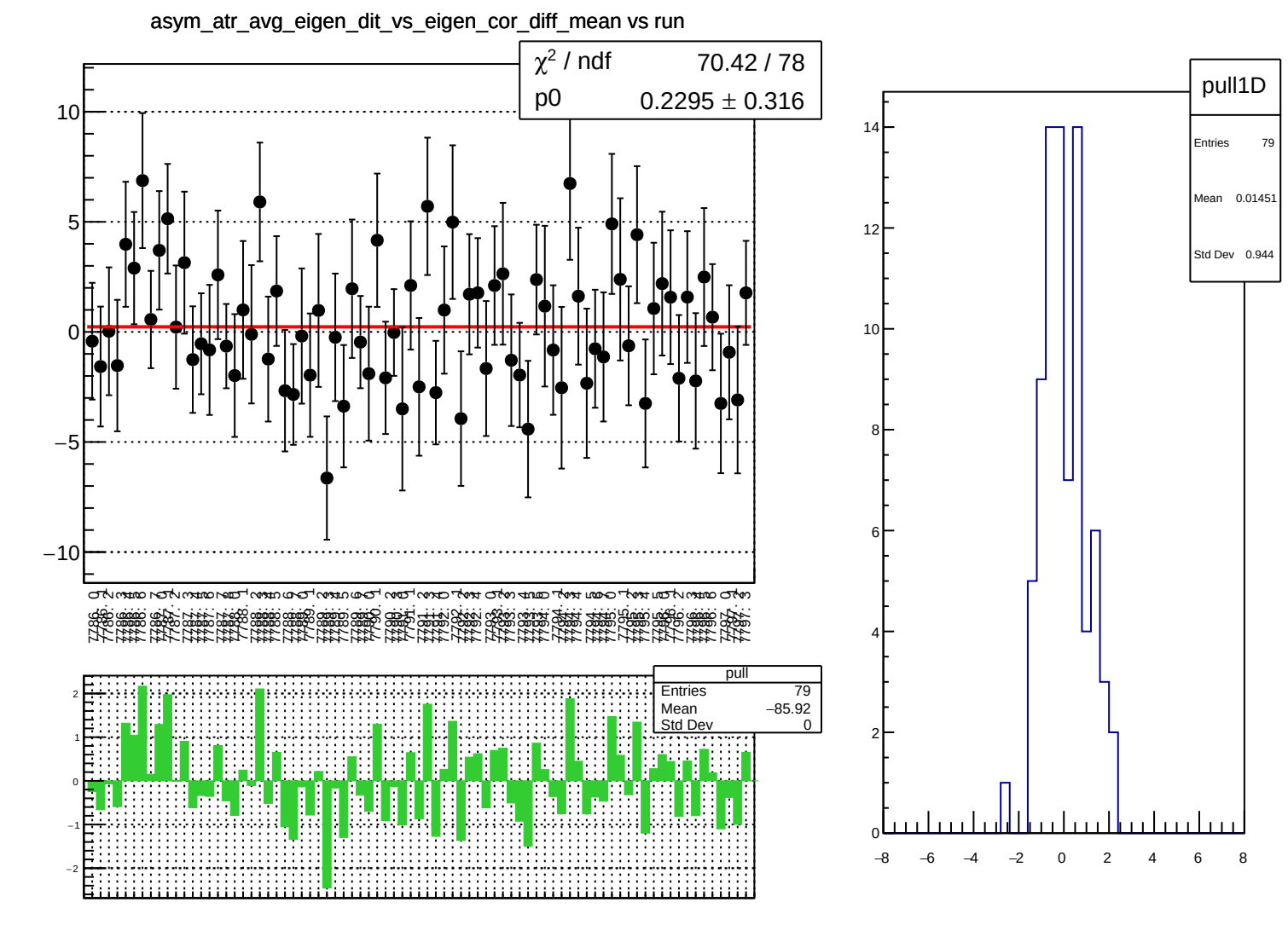

pull1D
Entries 79
Mean 0.004618
Std Dev 0.9488

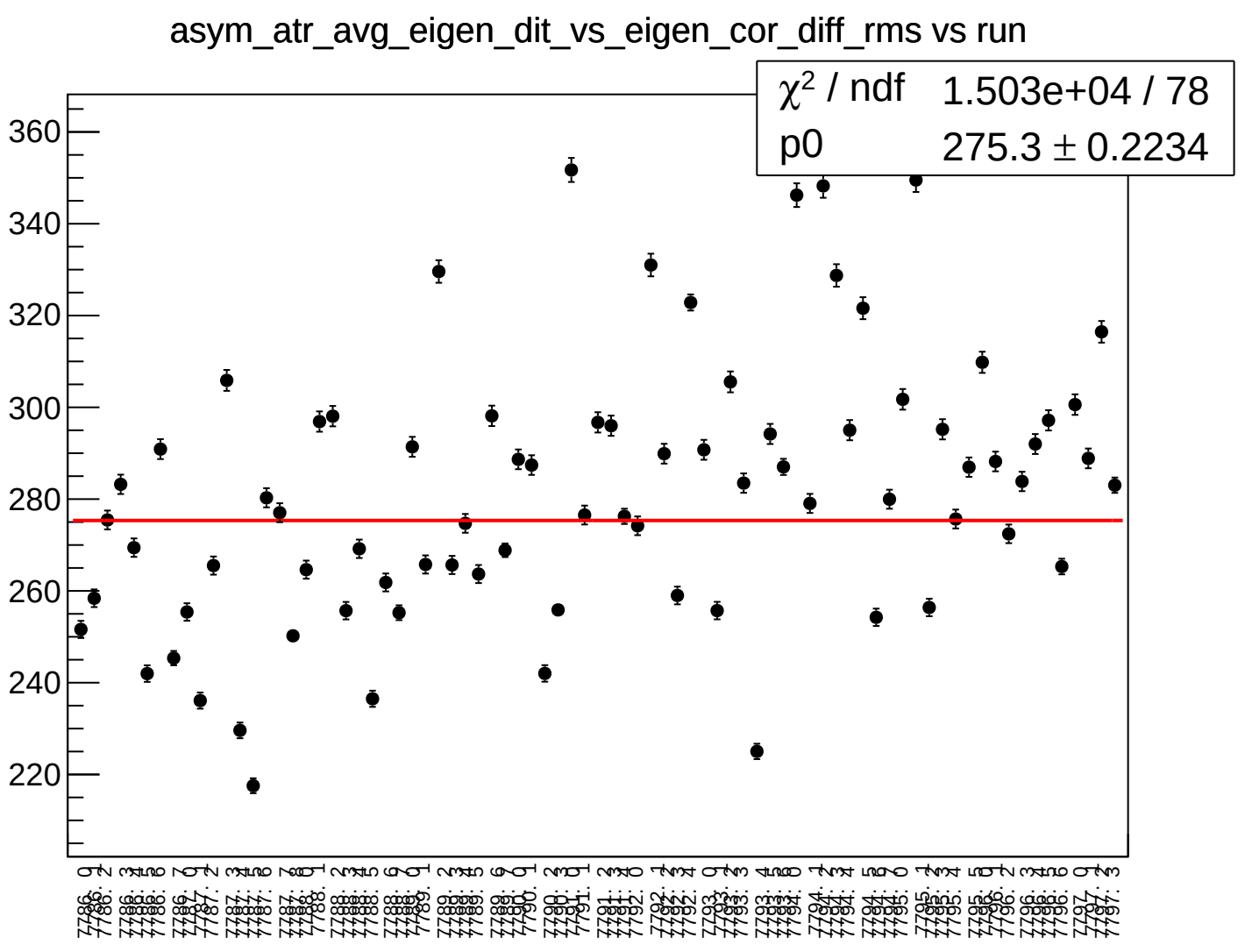

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4085 / 78
p0 0.006291 ± 5.087e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056

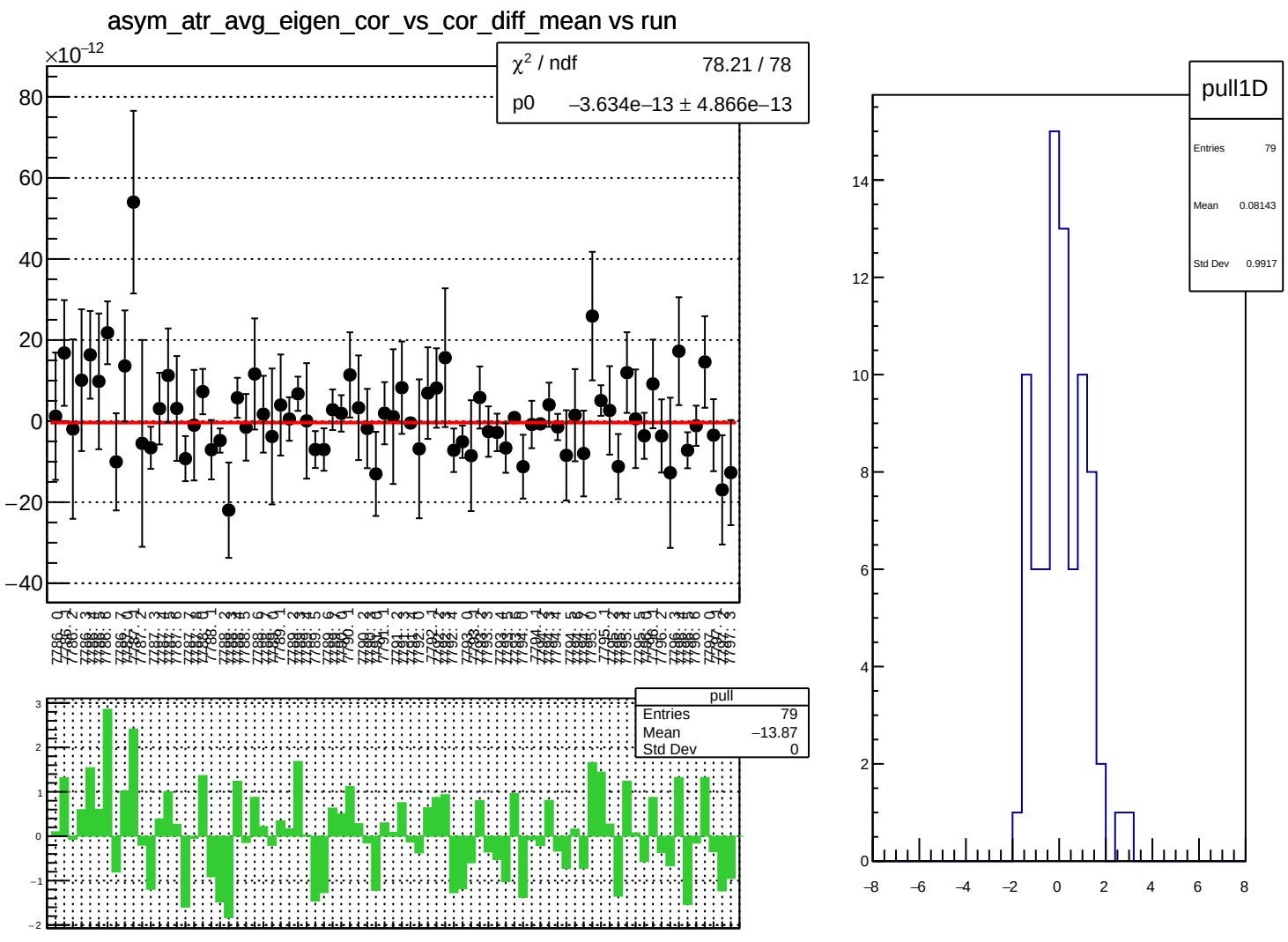

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.42 / 78
p0 0.2295 ± 0.316
pull
Entries 79
Mean −85.92
Std Dev 0

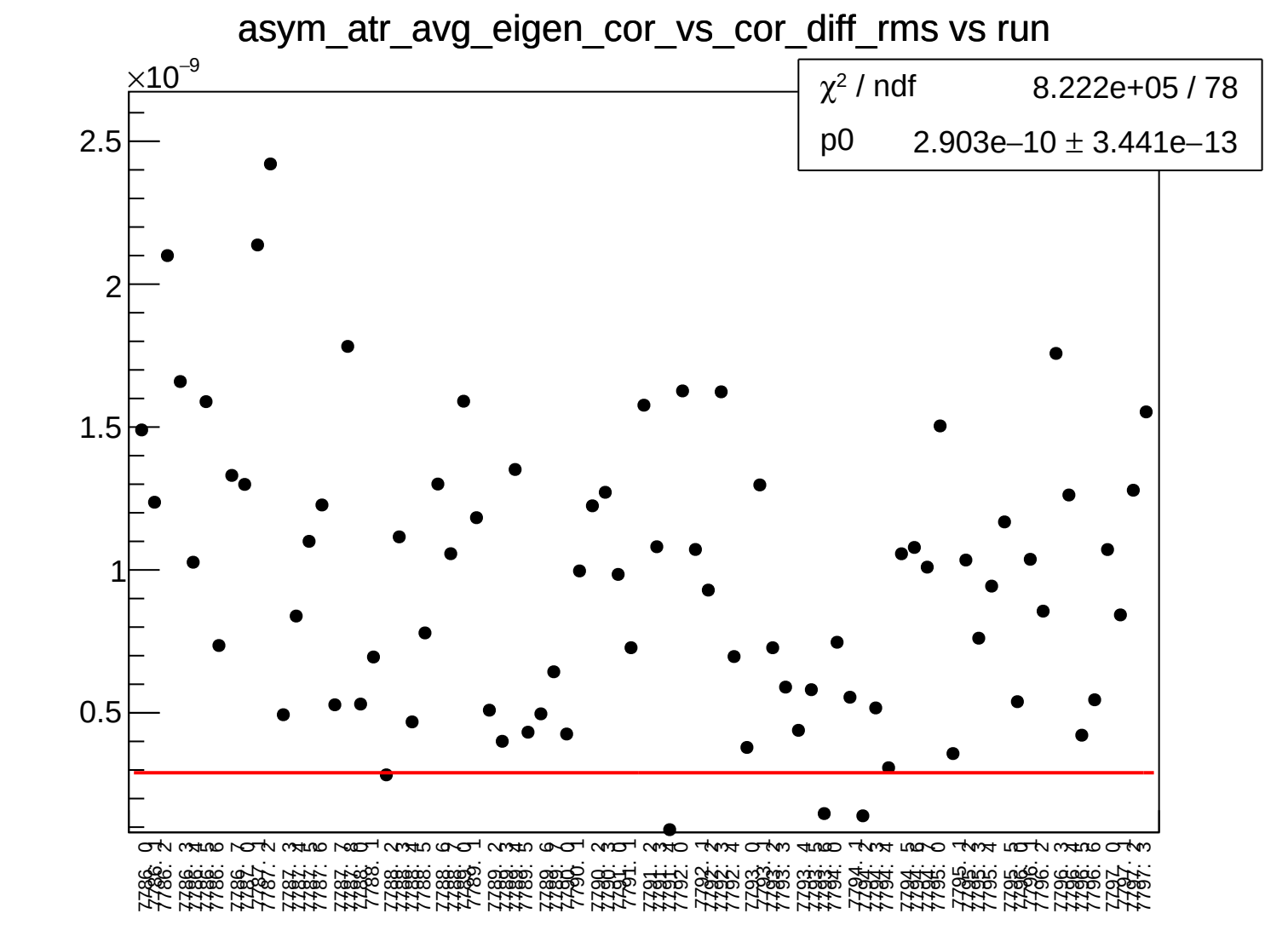

pull1D
Entries 79
Mean 0.01451
Std Dev 0.944

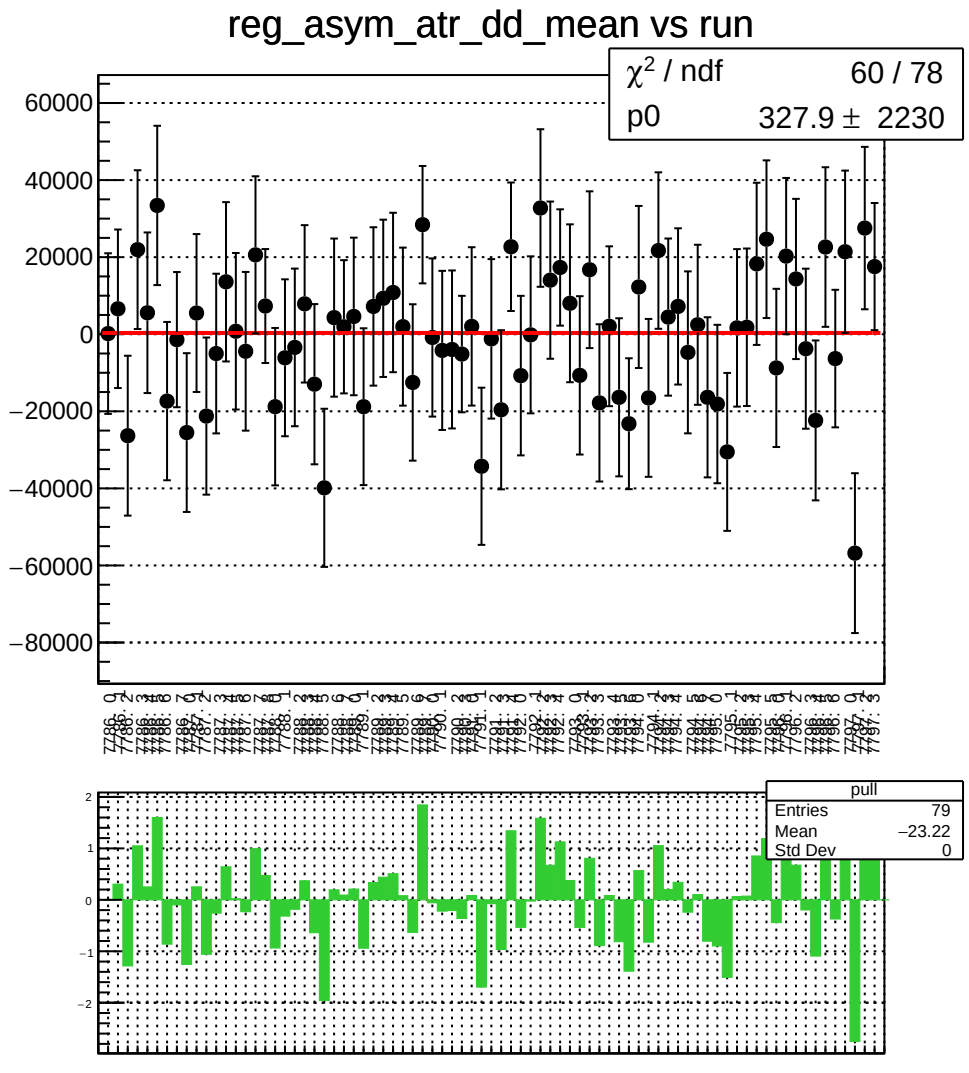

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 78
p0 275.3 ± 0.2234
360
340
320
300
280
260
240
220

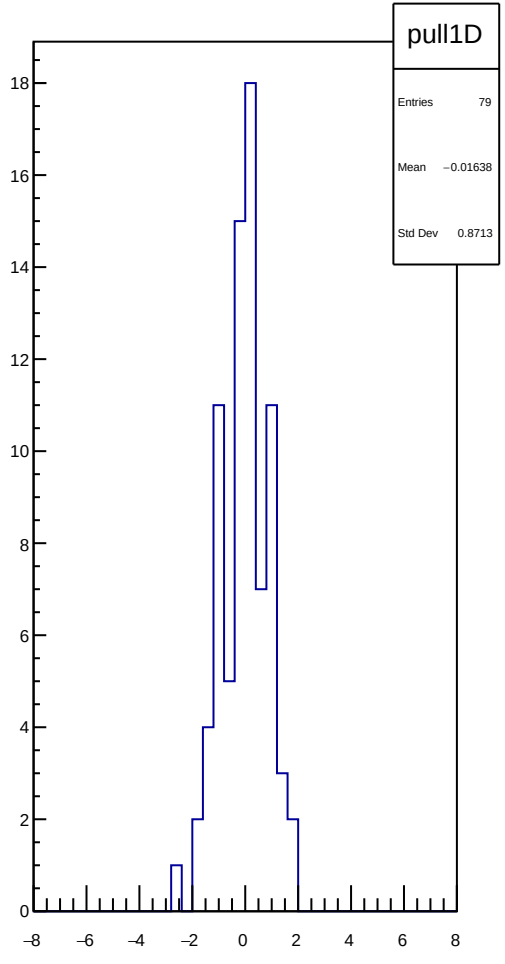

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.42 / 78
p0 0.2295 ± 0.316
pull
Entries 79
Mean −85.92
Std Dev 0
pull1D
Entries 79
Mean 0.01451
Std Dev 0.944

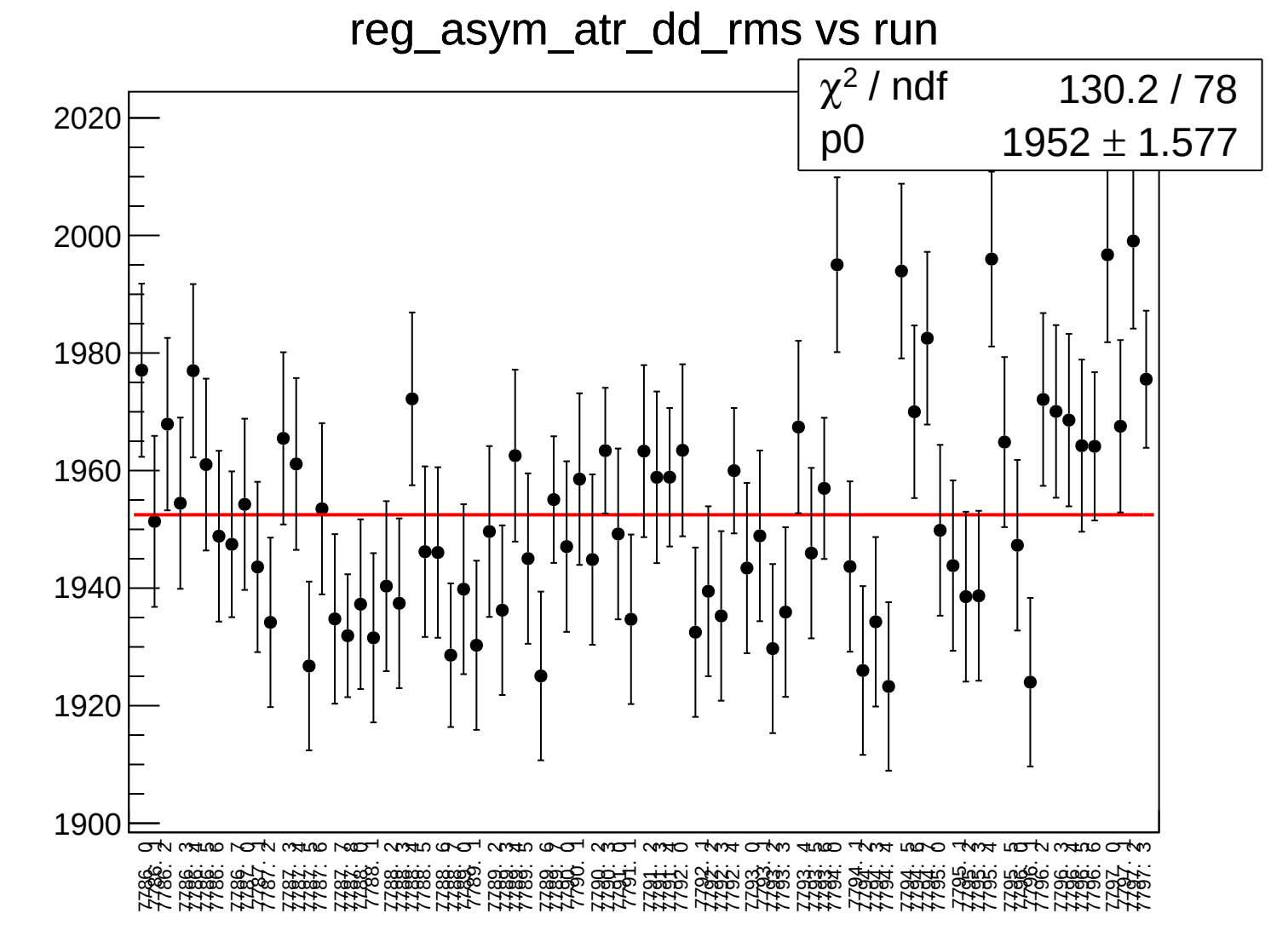

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 78
p0 275.3 ± 0.2234
360
340
320
300
280
260
240
220

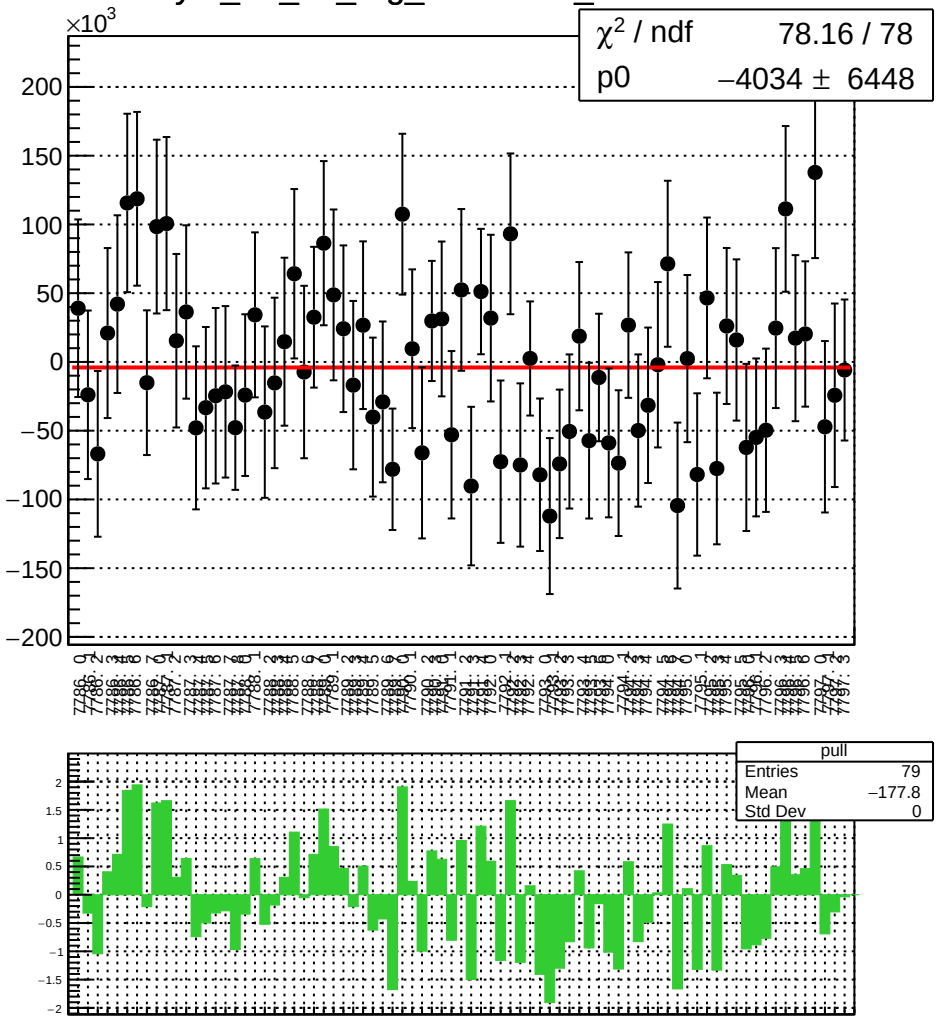

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.21 / 78
p0 −3.634e−13 ± 4.866e−13
pull
Entries 79
Mean −13.87
Std Dev 0
pull1D
Entries 79
Mean 0.08143
Std Dev 0.9917

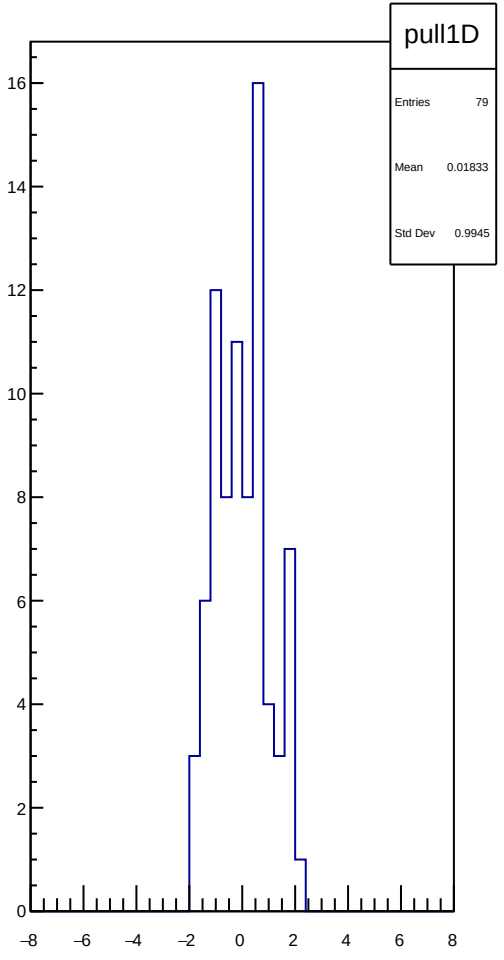

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.222e+05 / 78
p0 2.903e−10 ± 3.441e−13
2.5
2
1.5
1
0.5

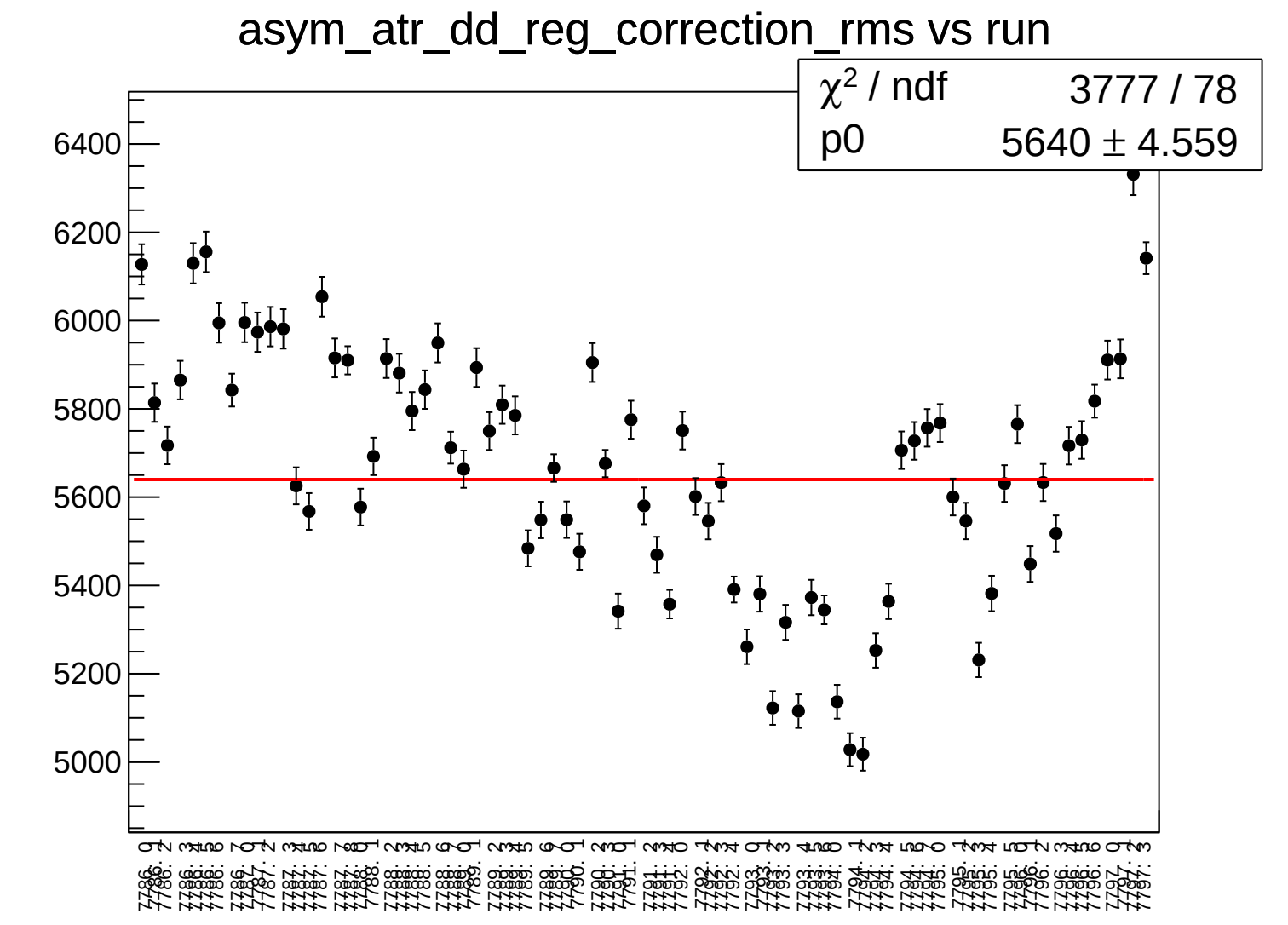

reg_asym_atr_dd_mean vs run
χ² / ndf 60 / 78
p0 327.9 ± 2230
pull
Entries 79
Mean −23.22
Std Dev 0

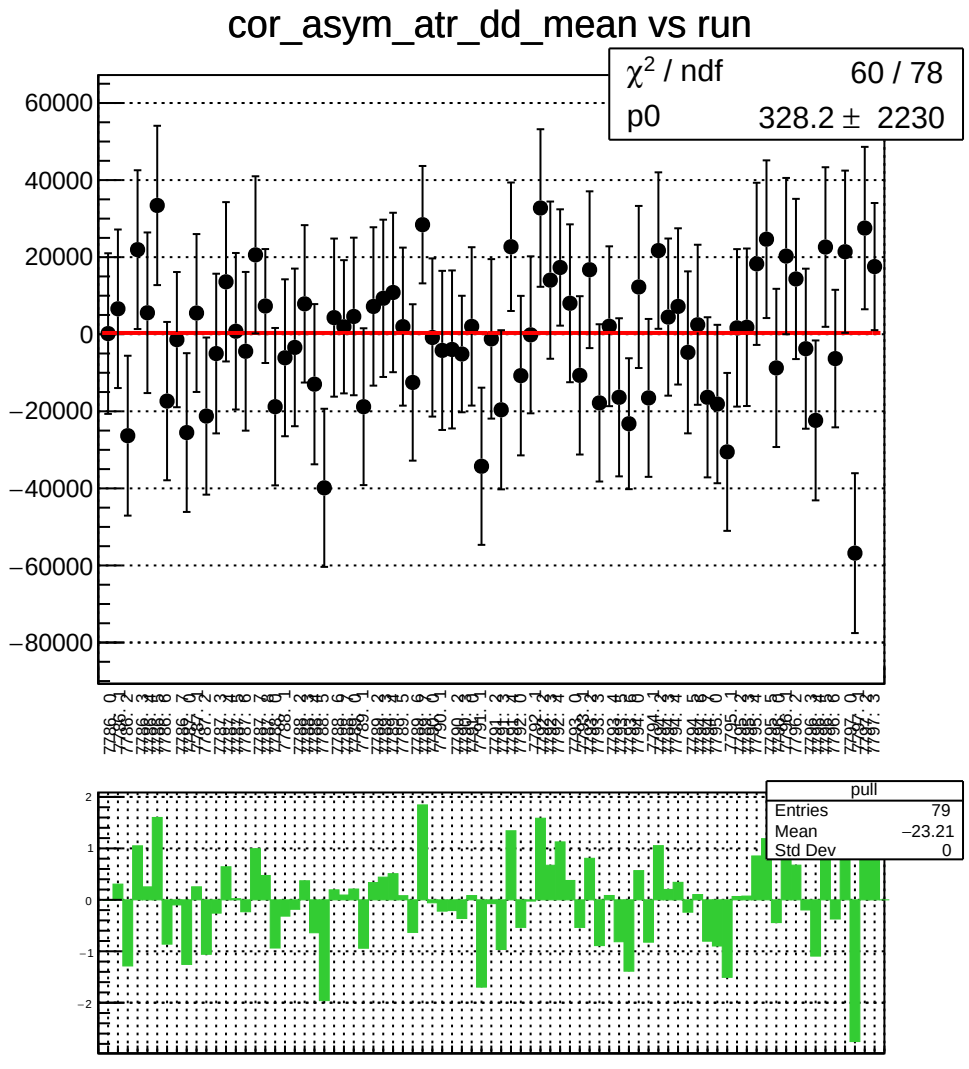

pull1D
Entries 79
Mean −0.01638
Std Dev 0.8713

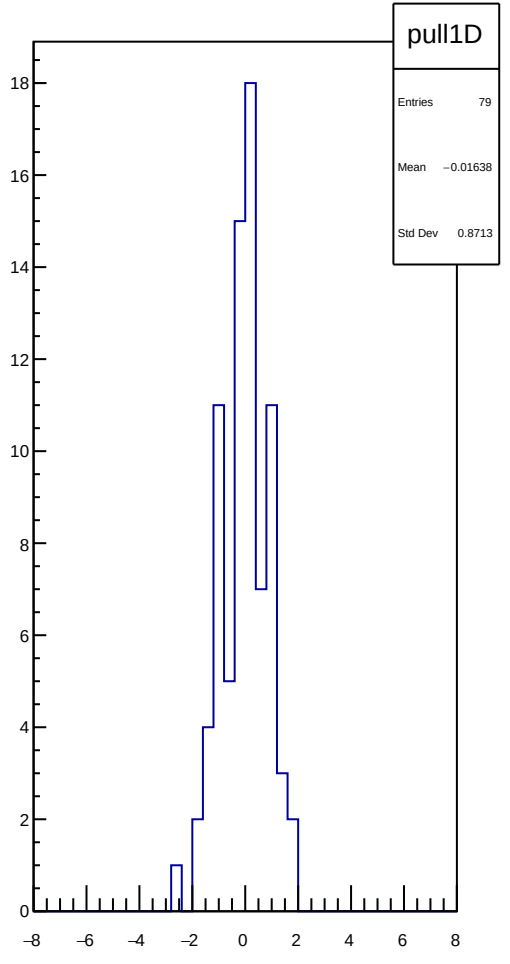

reg_asym_atr_dd_rms vs run
χ² / ndf 130.2 / 78
p0 1952 ± 1.577
2020
2000
1980
1960
1940
1920
1900

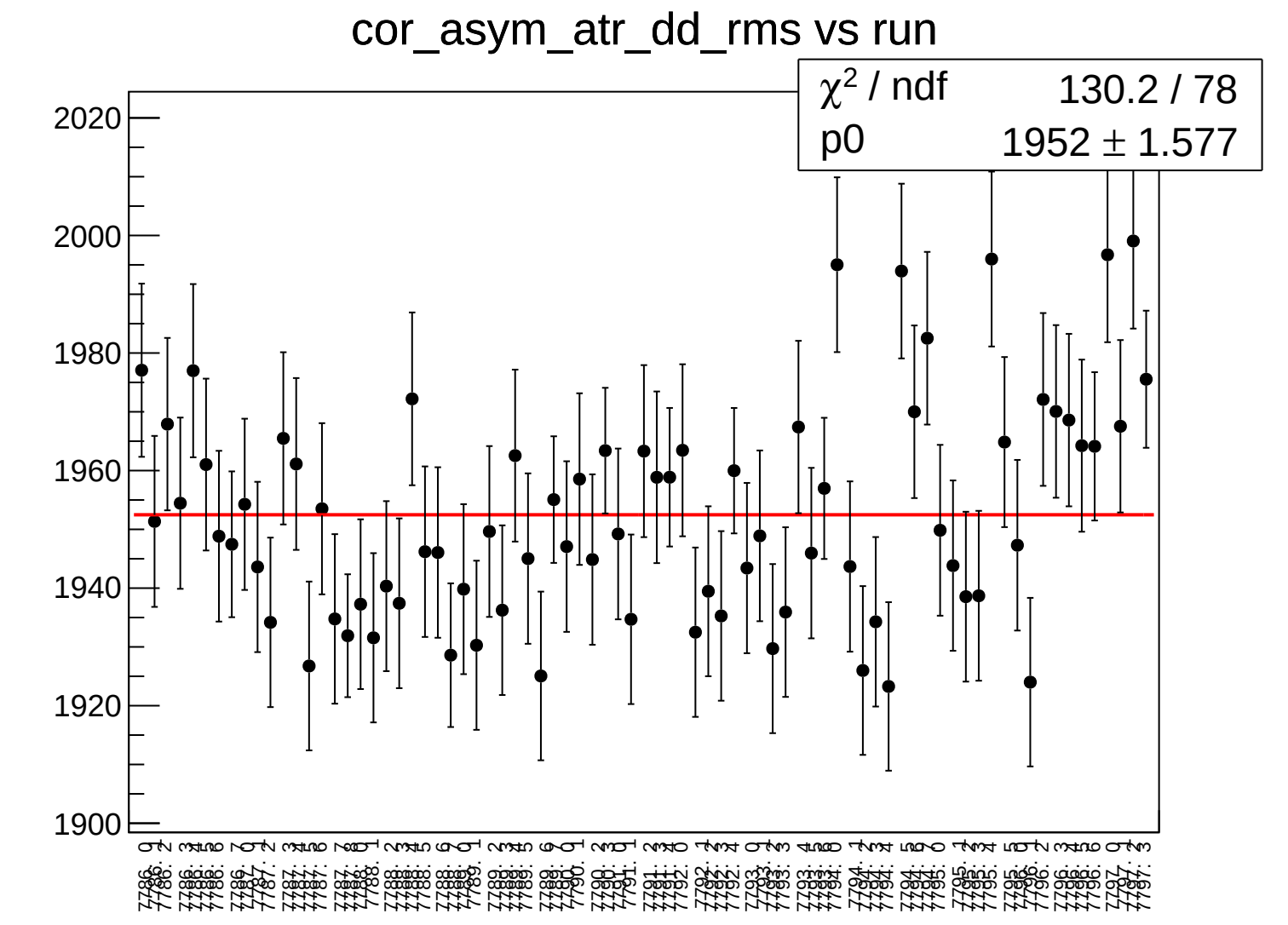

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.16 / 78
p0 −4034 ± 6448
pull
Entries 79
Mean −177.8
Std Dev 0

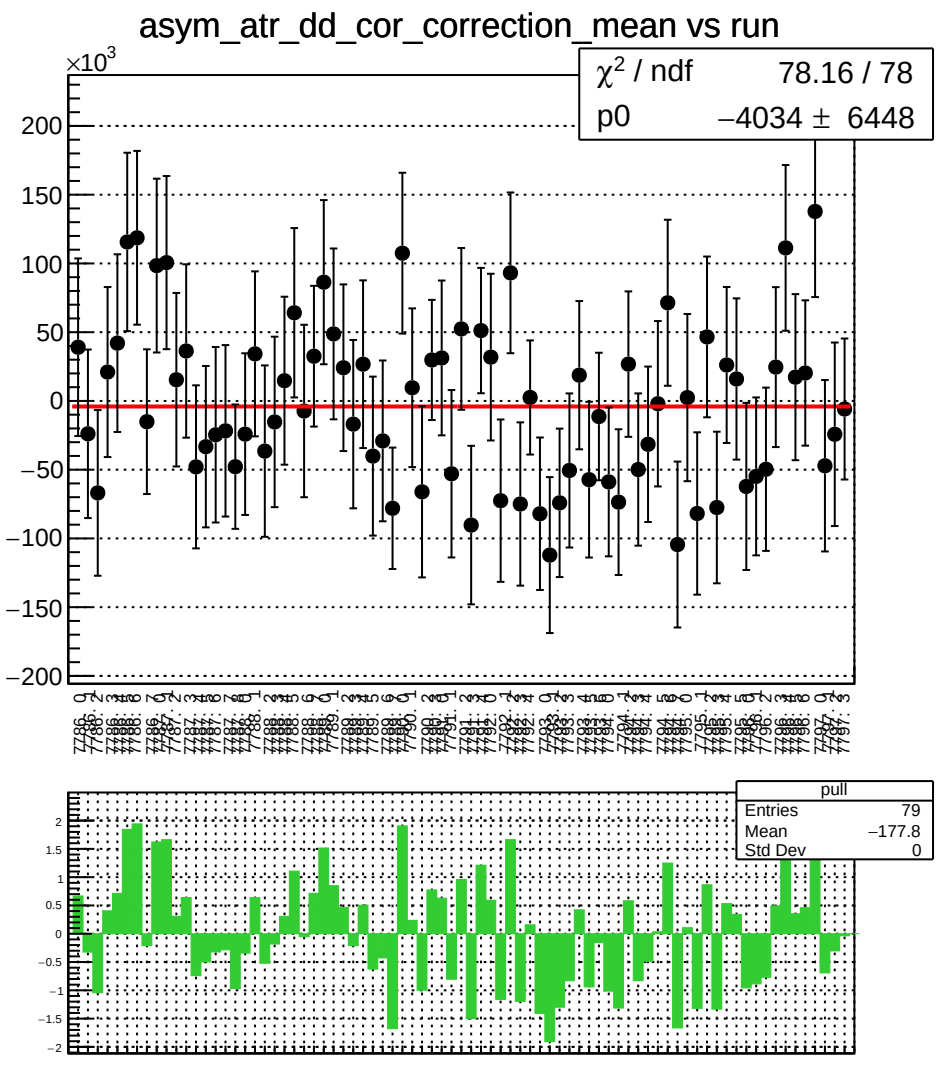

pull1D
Entries 79
Mean 0.01833
Std Dev 0.9945

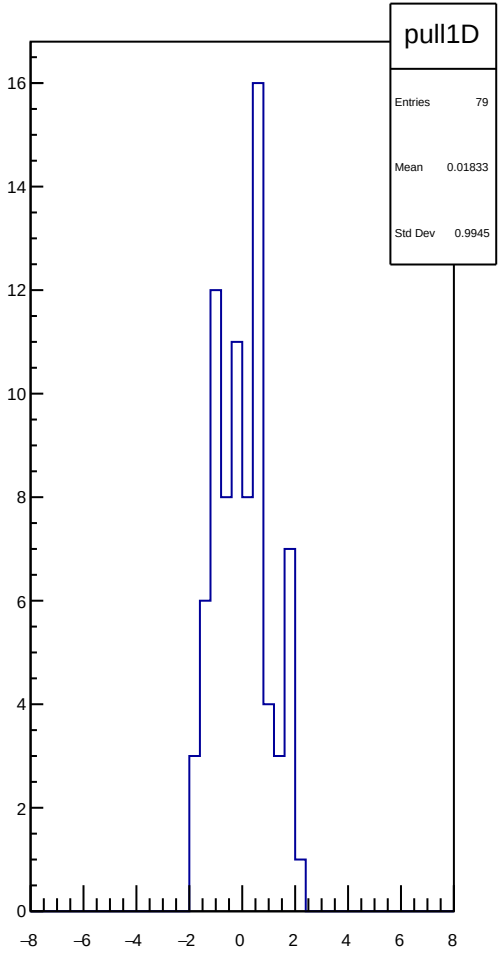

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3777 / 78
p0 5640 ± 4.559
6400
6200
6000
5800
5600
5400
5200
5000

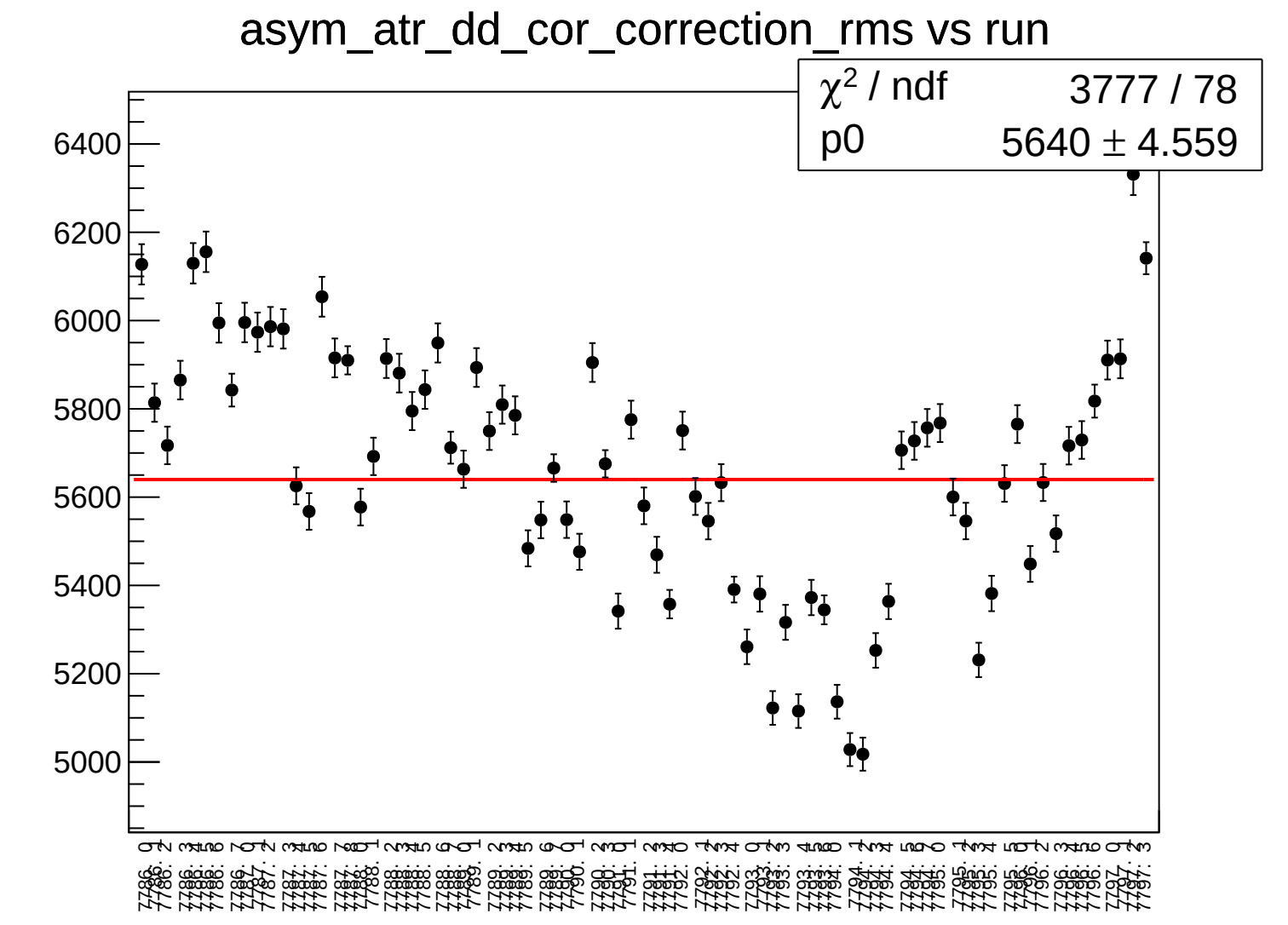

cor_asym_atr_dd_mean vs run
χ² / ndf 60 / 78
p0 328.2 ± 2230
pull
Entries 79
Mean −23.21
Std Dev 0

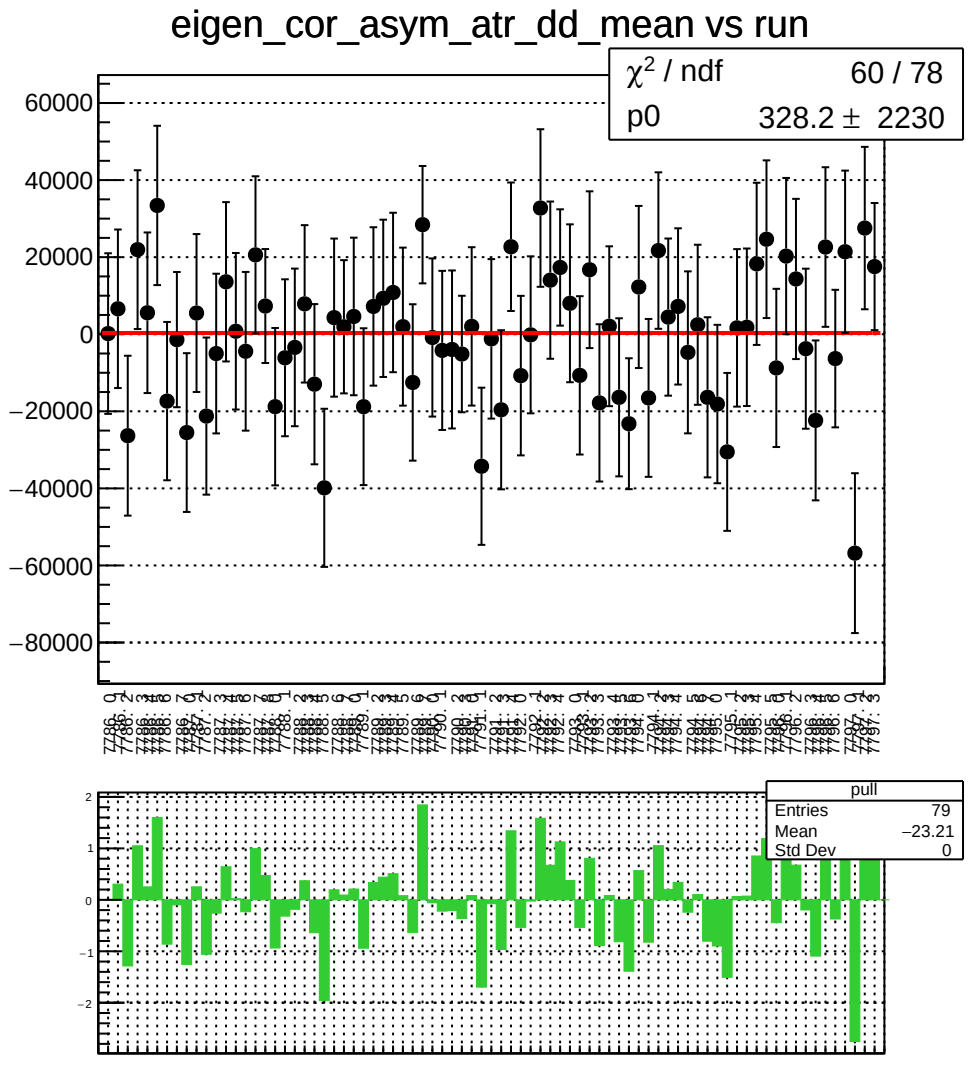

pull1D
Entries 79
Mean −0.01638
Std Dev 0.8713

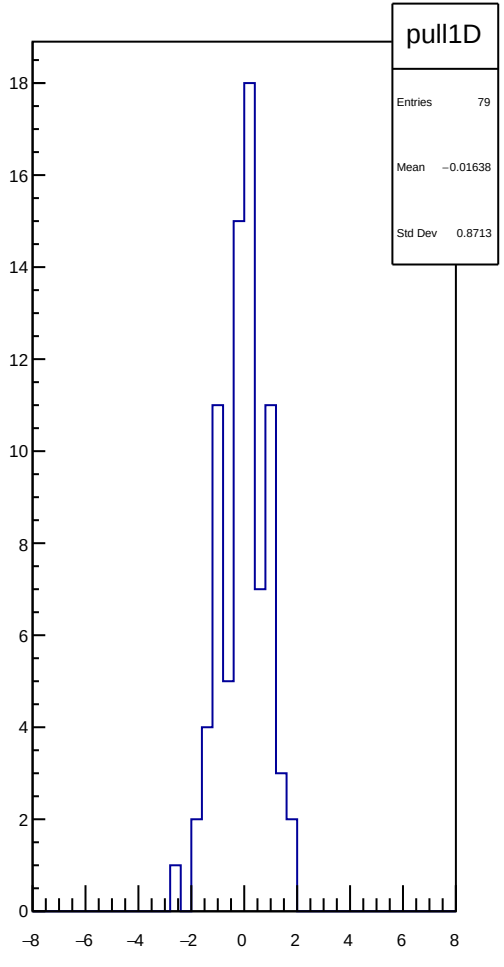

cor_asym_atr_dd_rms vs run
χ^2 / ndf 130.2 / 78
p0 1952 ± 1.577
2020
2000
1980
1960
1940
1920
1900

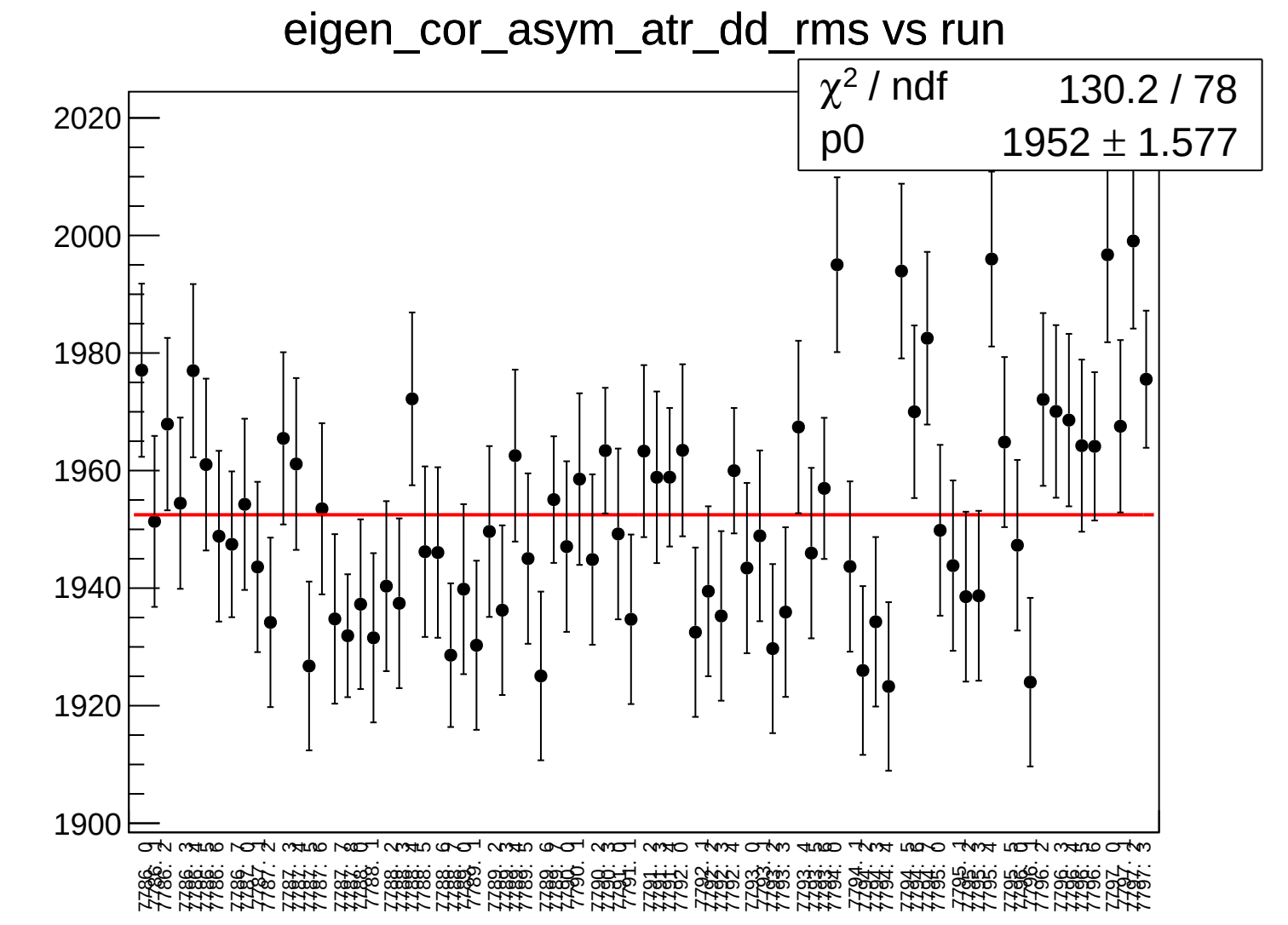

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 78.16 / 78
p0 −4034 ± 6448
×10³
pull
Entries 79
Mean −177.8
Std Dev 0

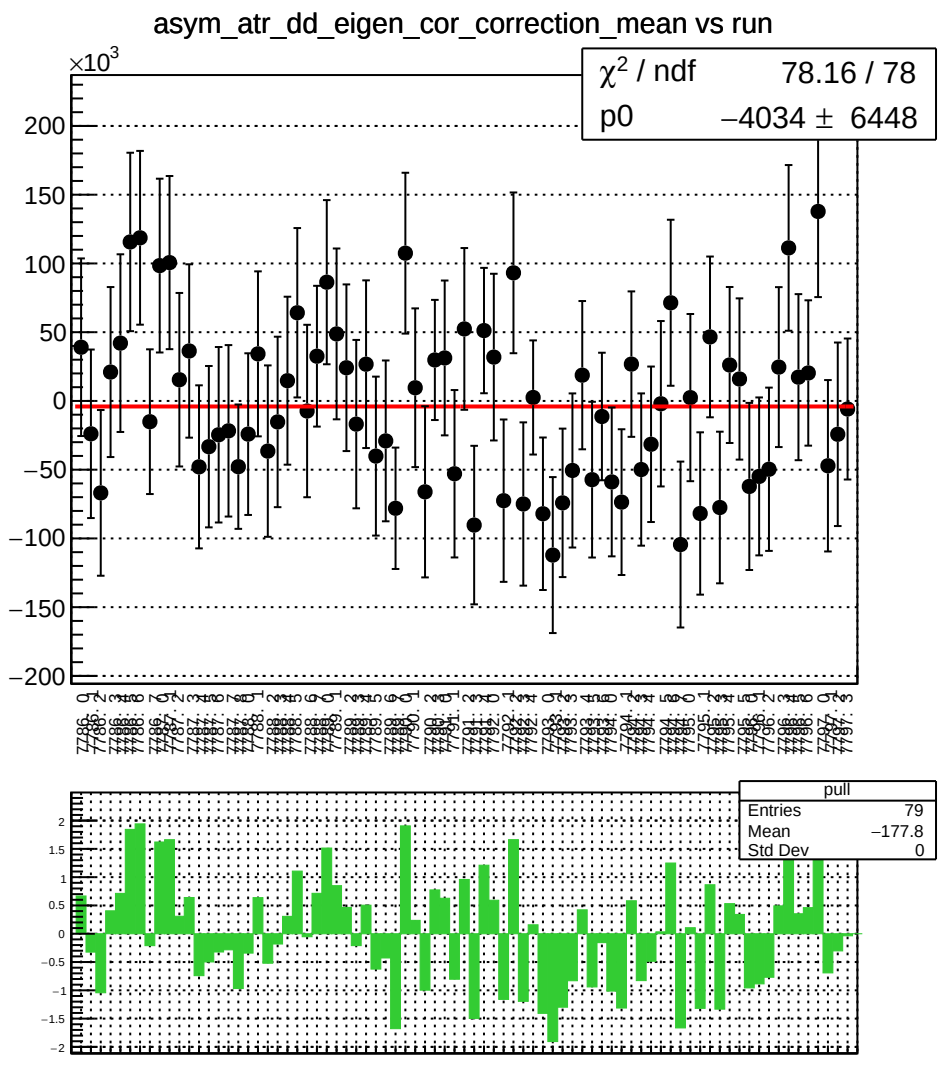

pull1D
Entries 79
Mean 0.01833
Std Dev 0.9945

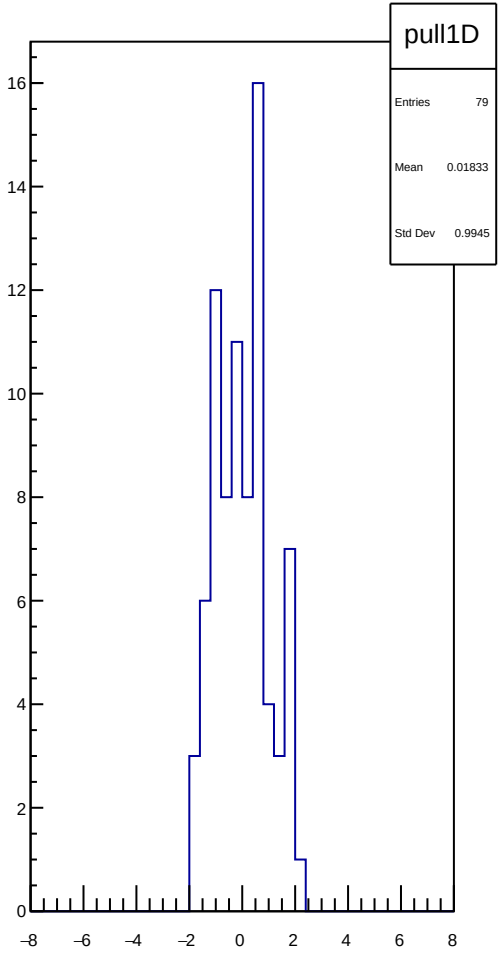

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3777 / 78
p0 5640 ± 4.559
6400
6200
6000
5800
5600
5400
5200
5000

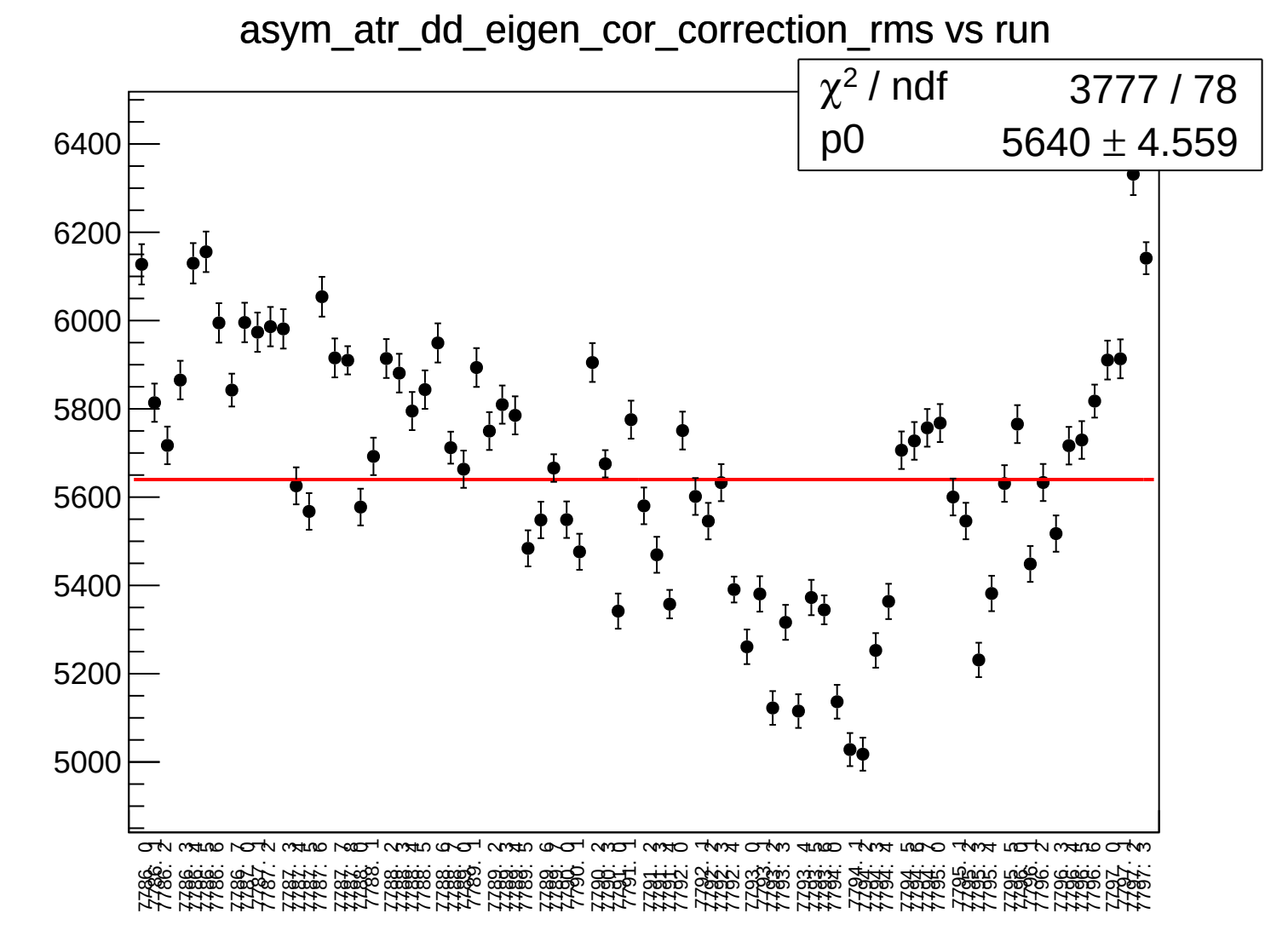

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 60 / 78
p0 328.2 ± 2230
pull
Entries 79
Mean −23.21
Std Dev 0

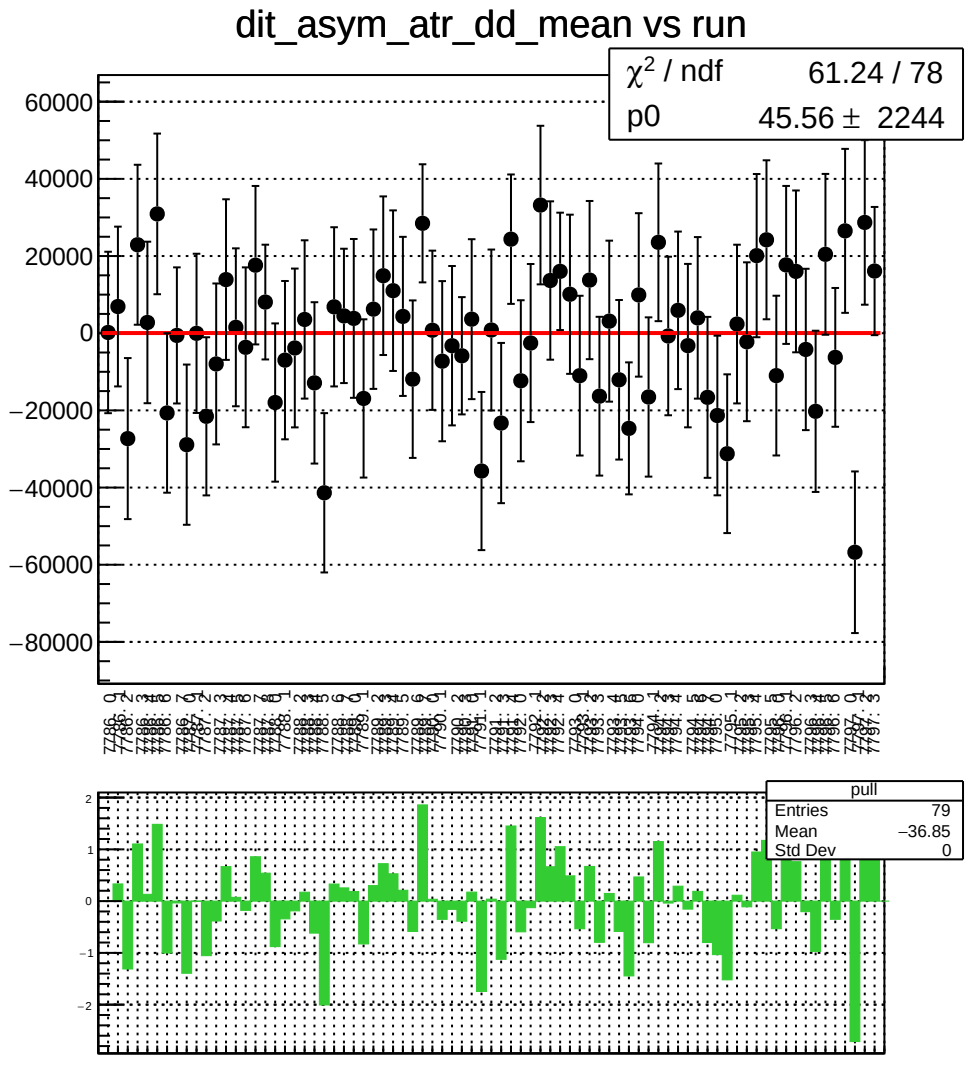

pull1D
Entries 79
Mean −0.01638
Std Dev 0.8713

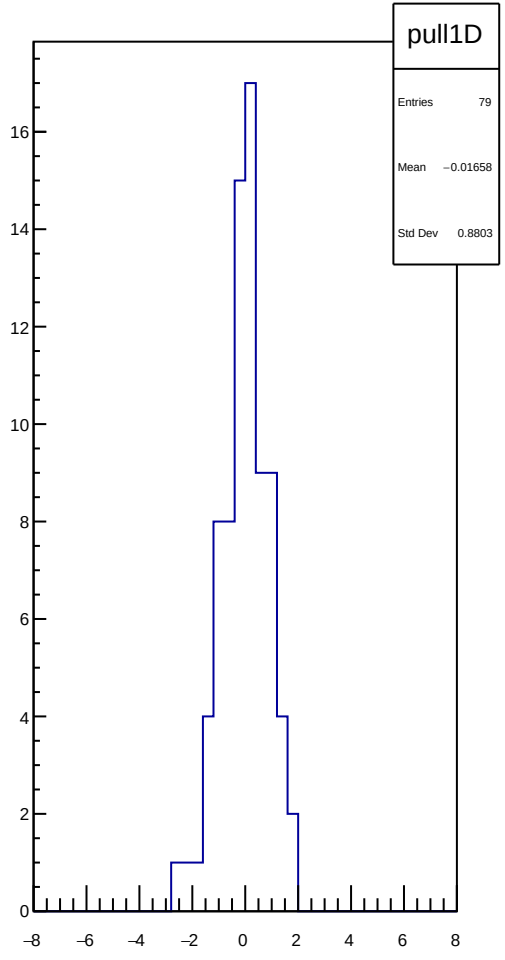

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 130.2 / 78
p0 1952 ± 1.577
2020
2000
1980
1960
1940
1920
1900

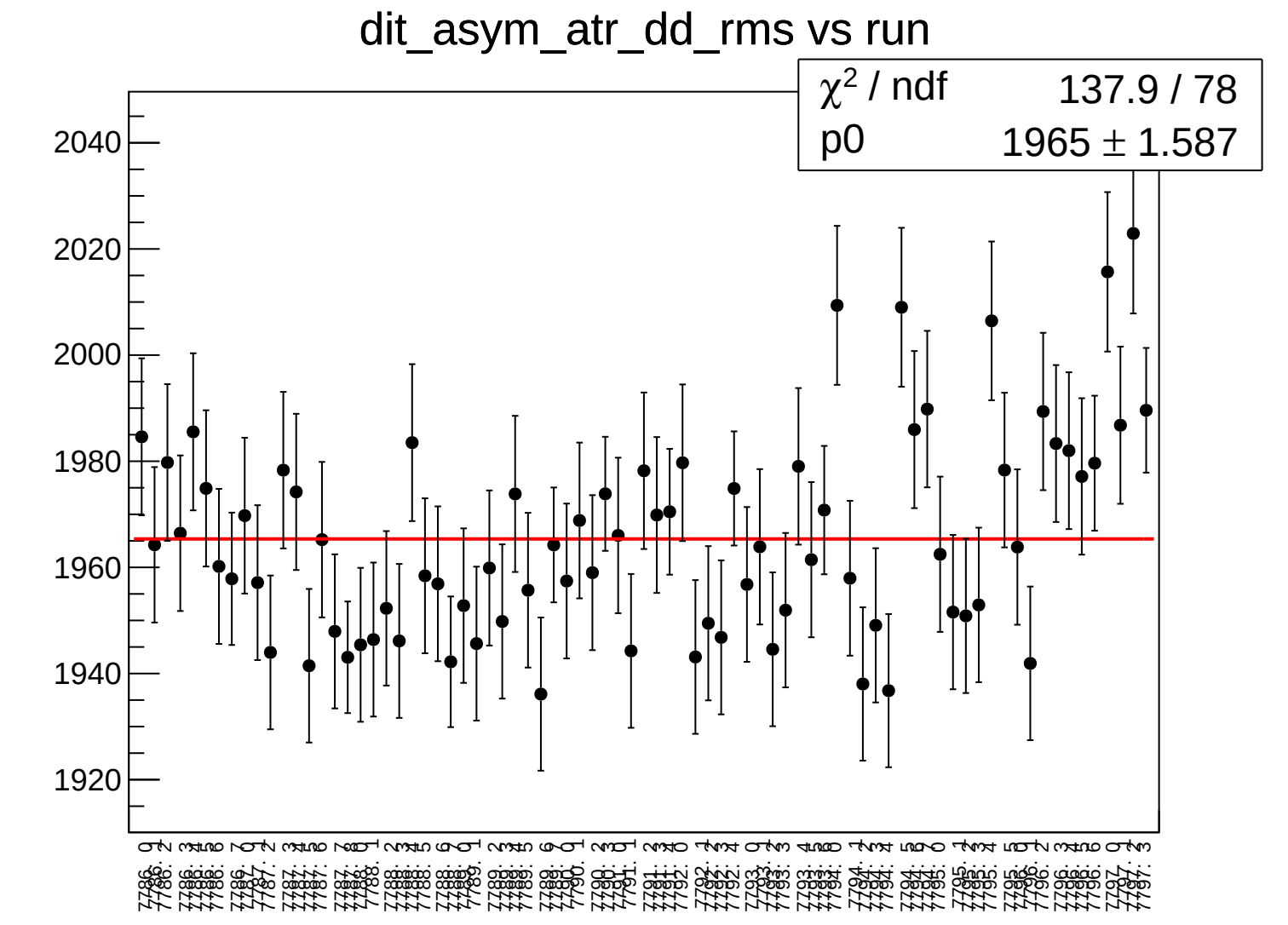

asym_atr_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.16 / 78
p0 −4034 ± 6448
pull
Entries 79
Mean −177.8
Std Dev 0

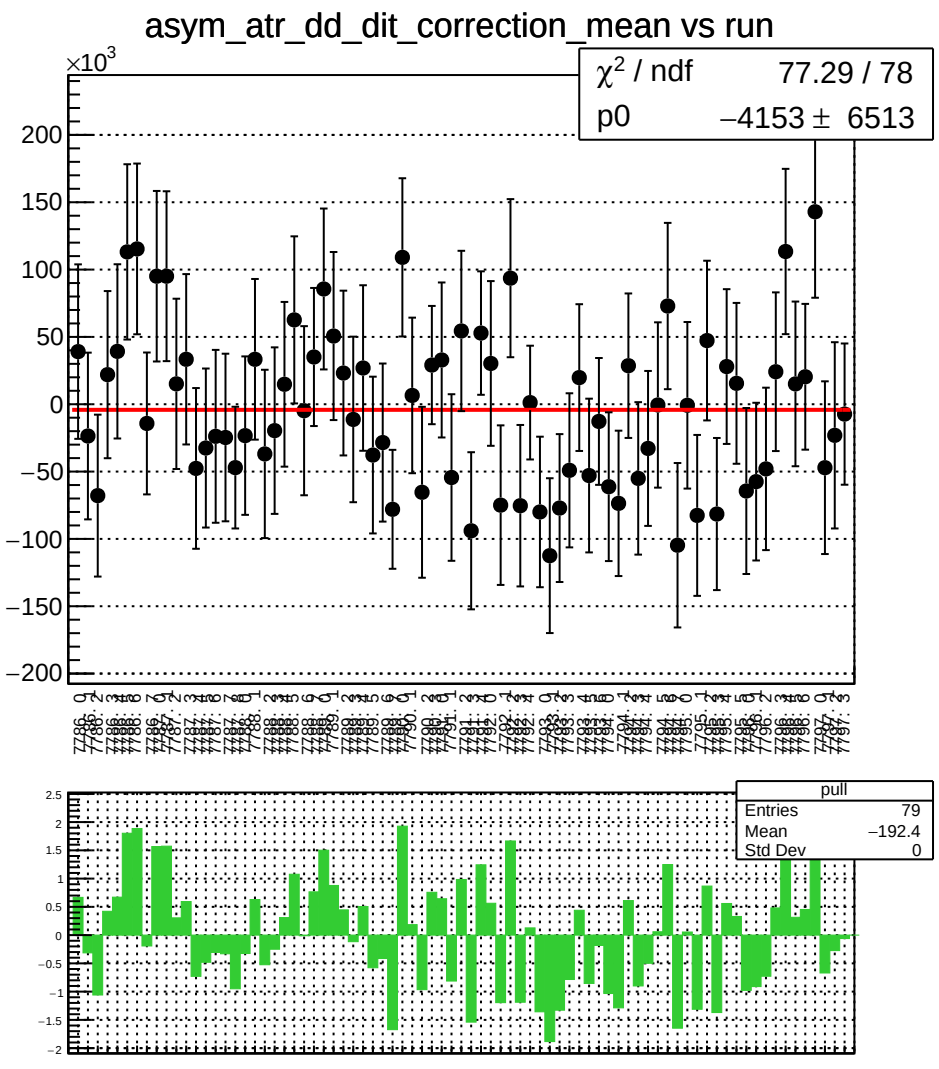

pull1D
Entries 79
Mean 0.01833
Std Dev 0.9945

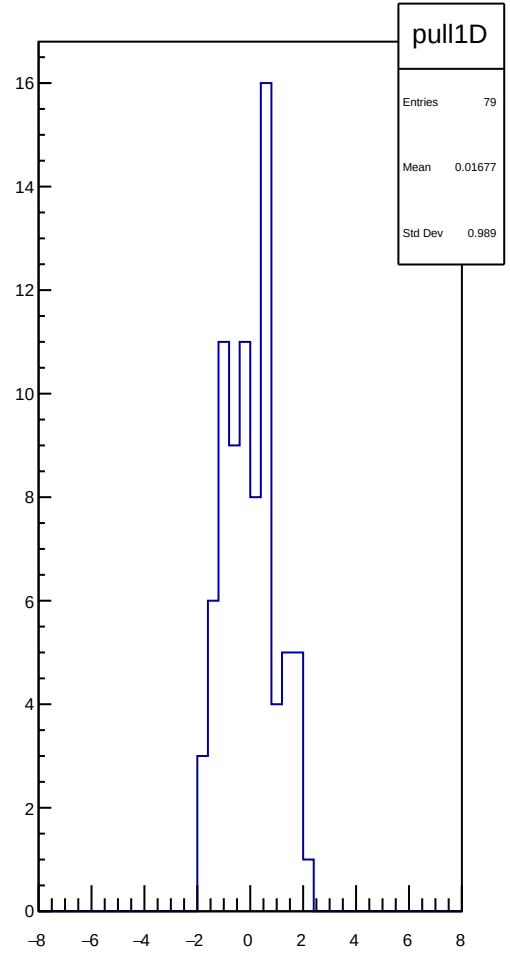

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3777 / 78
p0 5640 ± 4.559
6400
6200
6000
5800
5600
5400
5200
5000

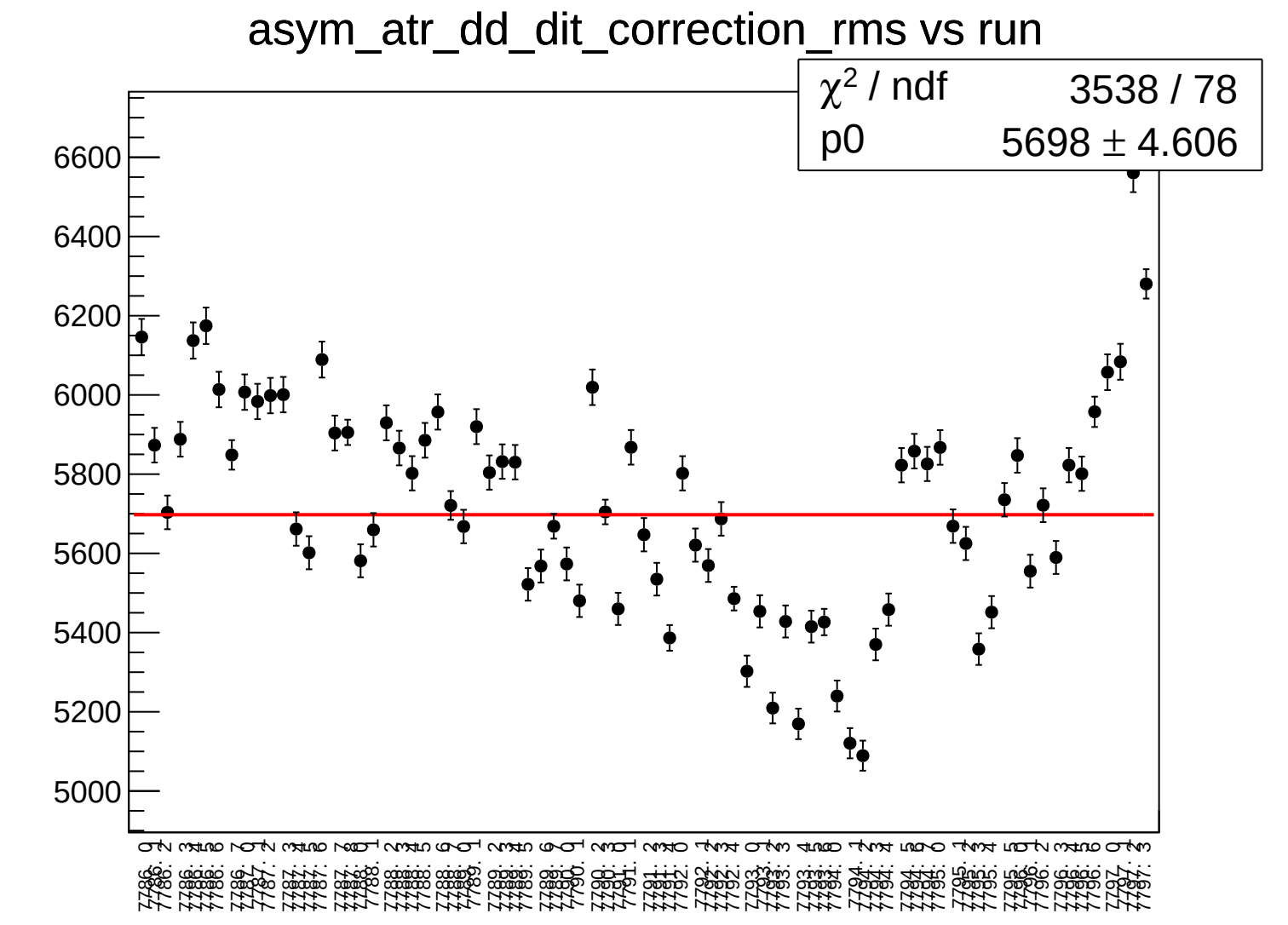

dit_asym_atr_dd_mean vs run
χ² / ndf 61.24 / 78
p0 45.56 ± 2244
pull
Entries 79
Mean −36.85
Std Dev 0

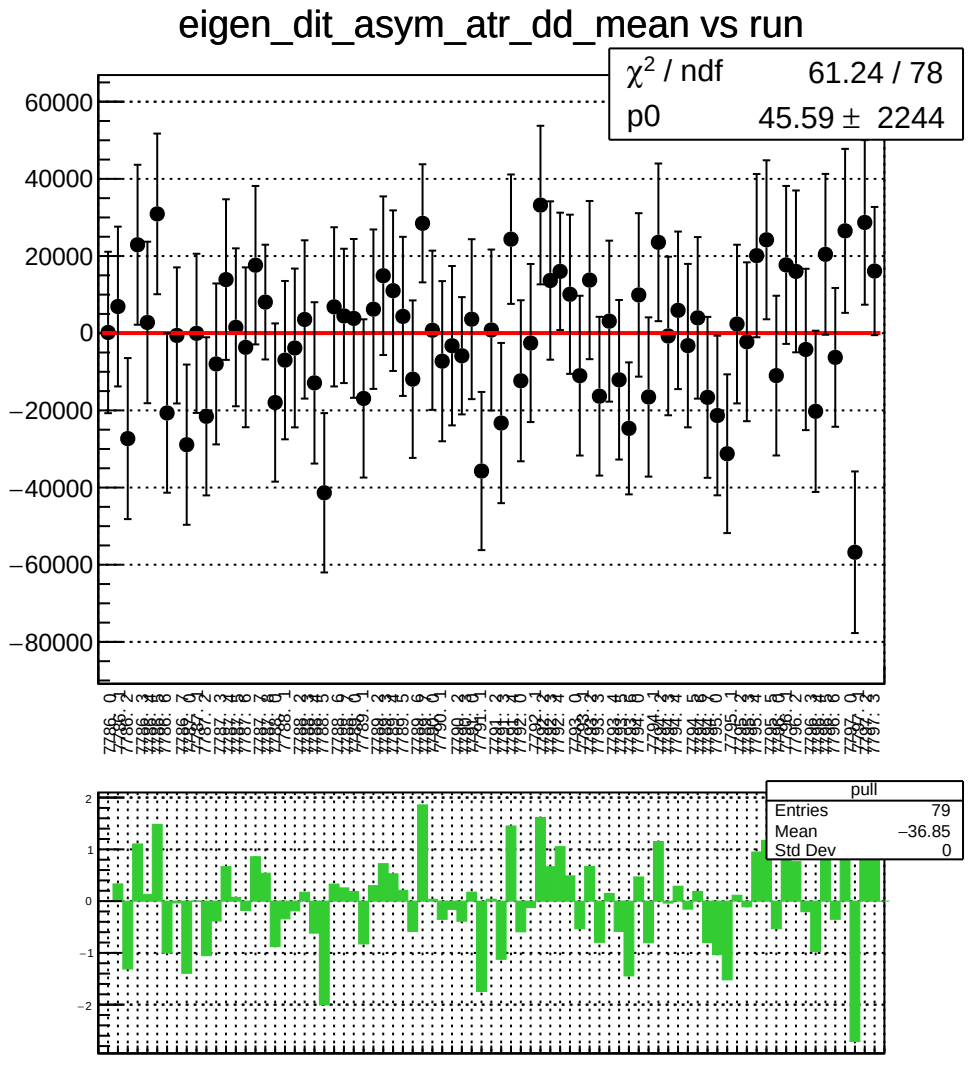

pull1D
Entries 79
Mean −0.01658
Std Dev 0.8803

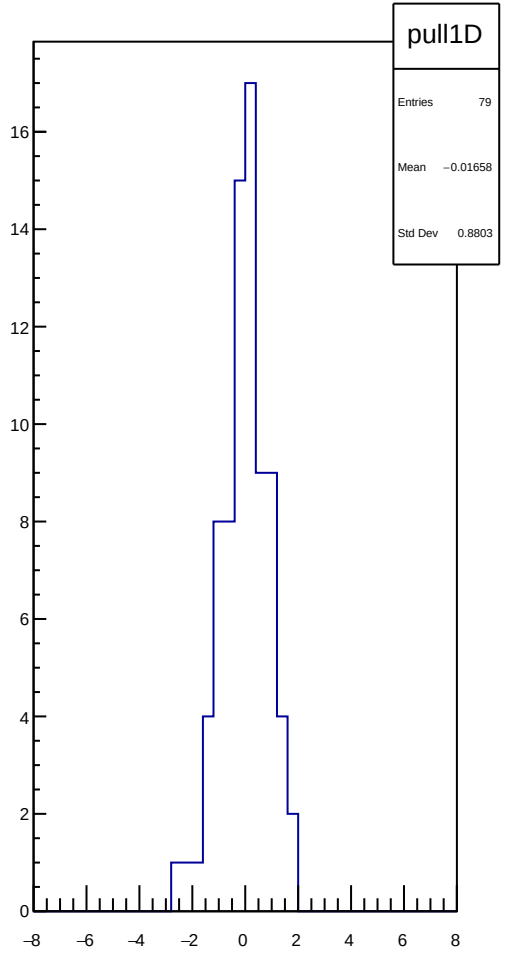

dit_asym_atr_dd_rms vs run
χ^2 / ndf 137.9 / 78
p0 1965 ± 1.587
2040
2020
2000
1980
1960
1940
1920

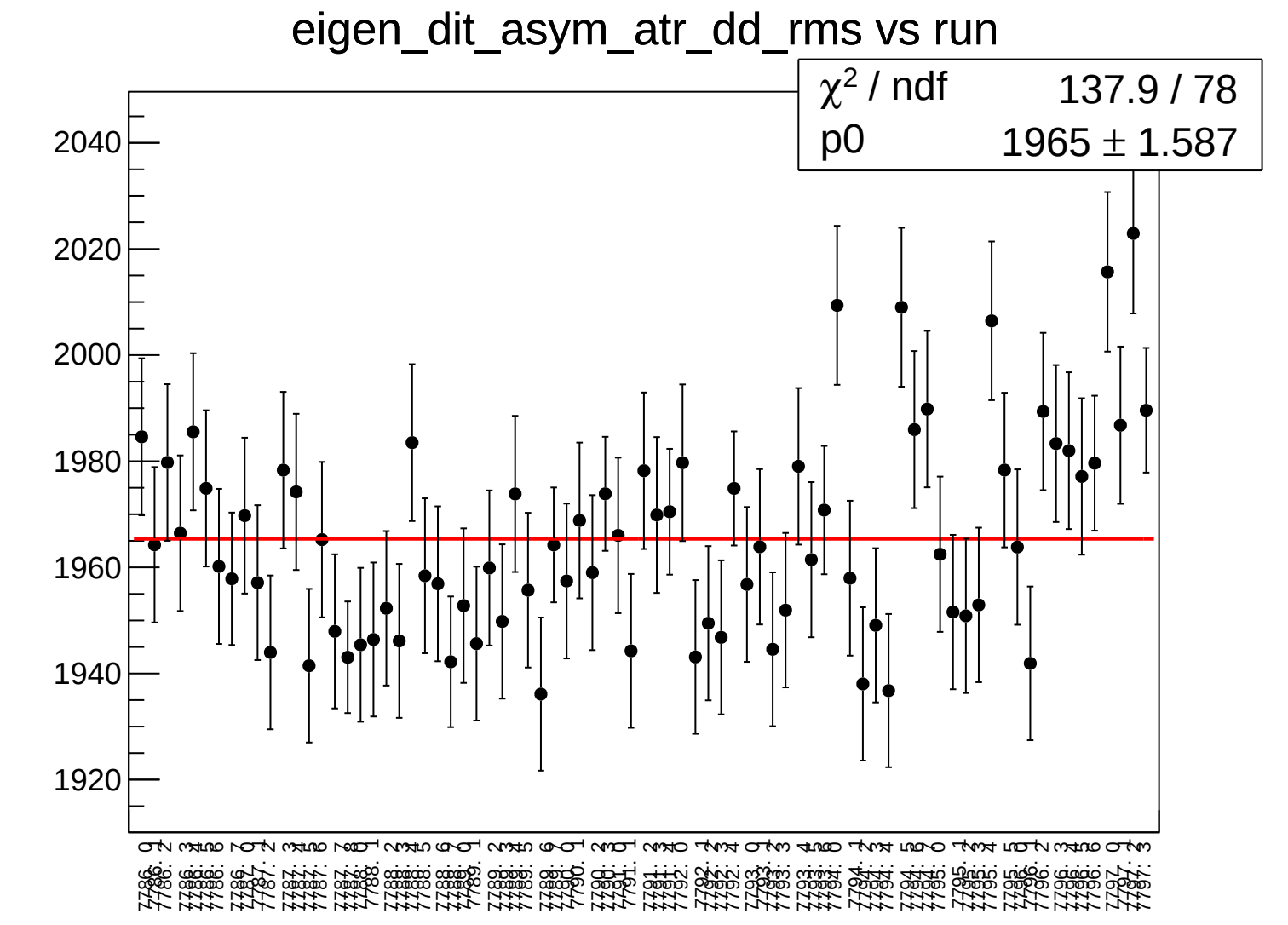

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.29 / 78
p0 −4153 ± 6513
pull
Entries 79
Mean −192.4
Std Dev 0

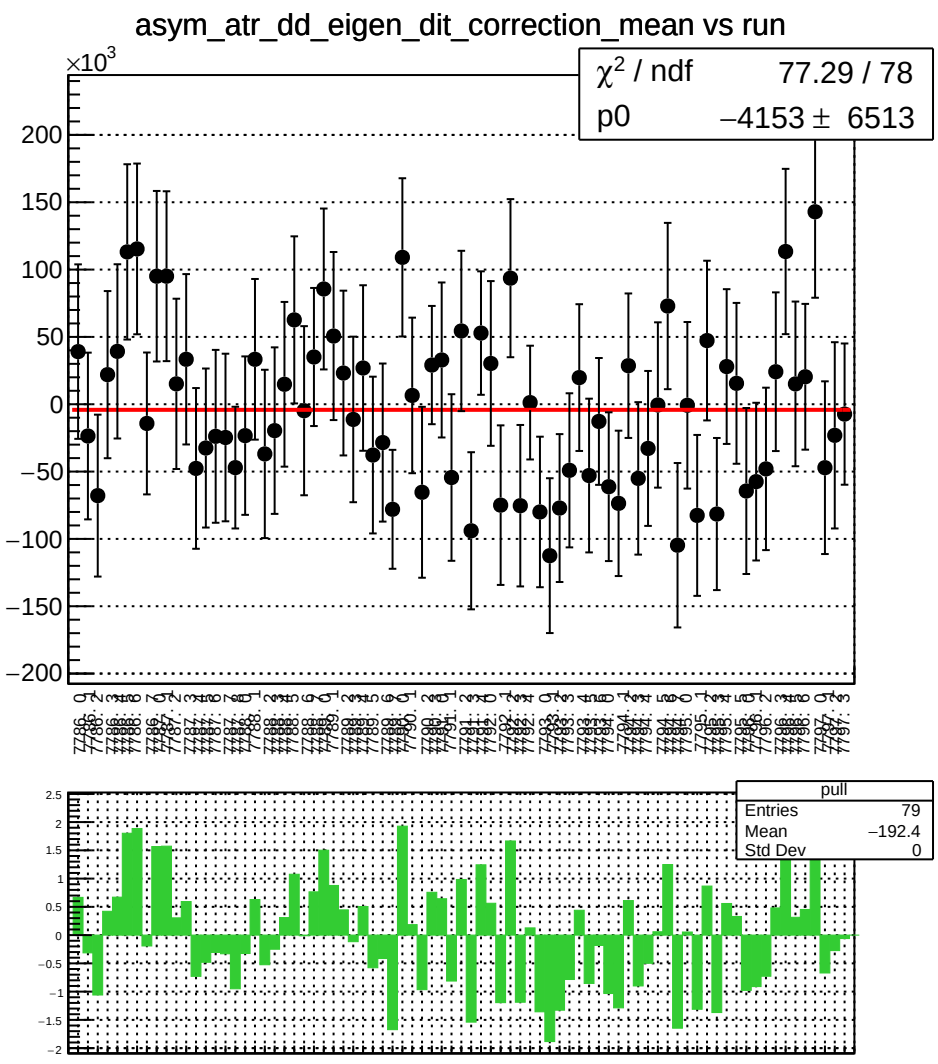

pull1D
Entries 79
Mean 0.01677
Std Dev 0.989

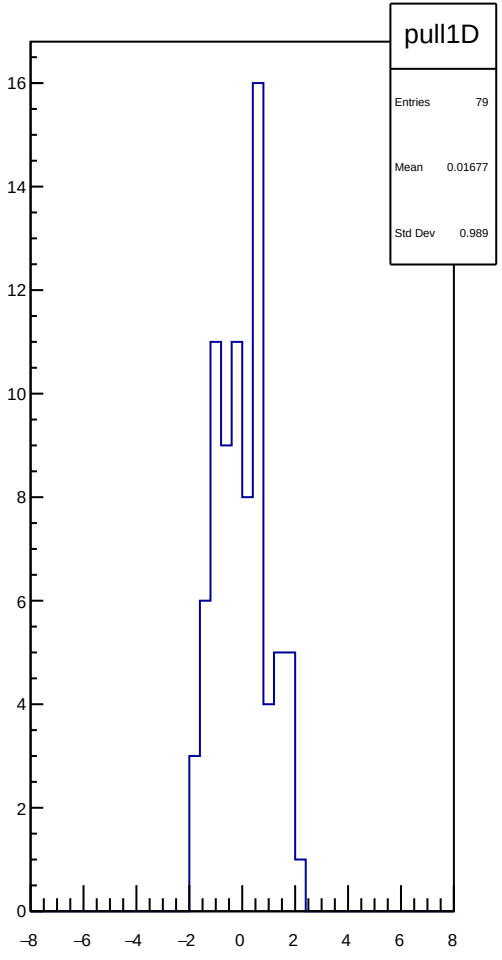

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 3538 / 78
p0 5698 ± 4.606
6600
6400
6200
6000
5800
5600
5400
5200
5000

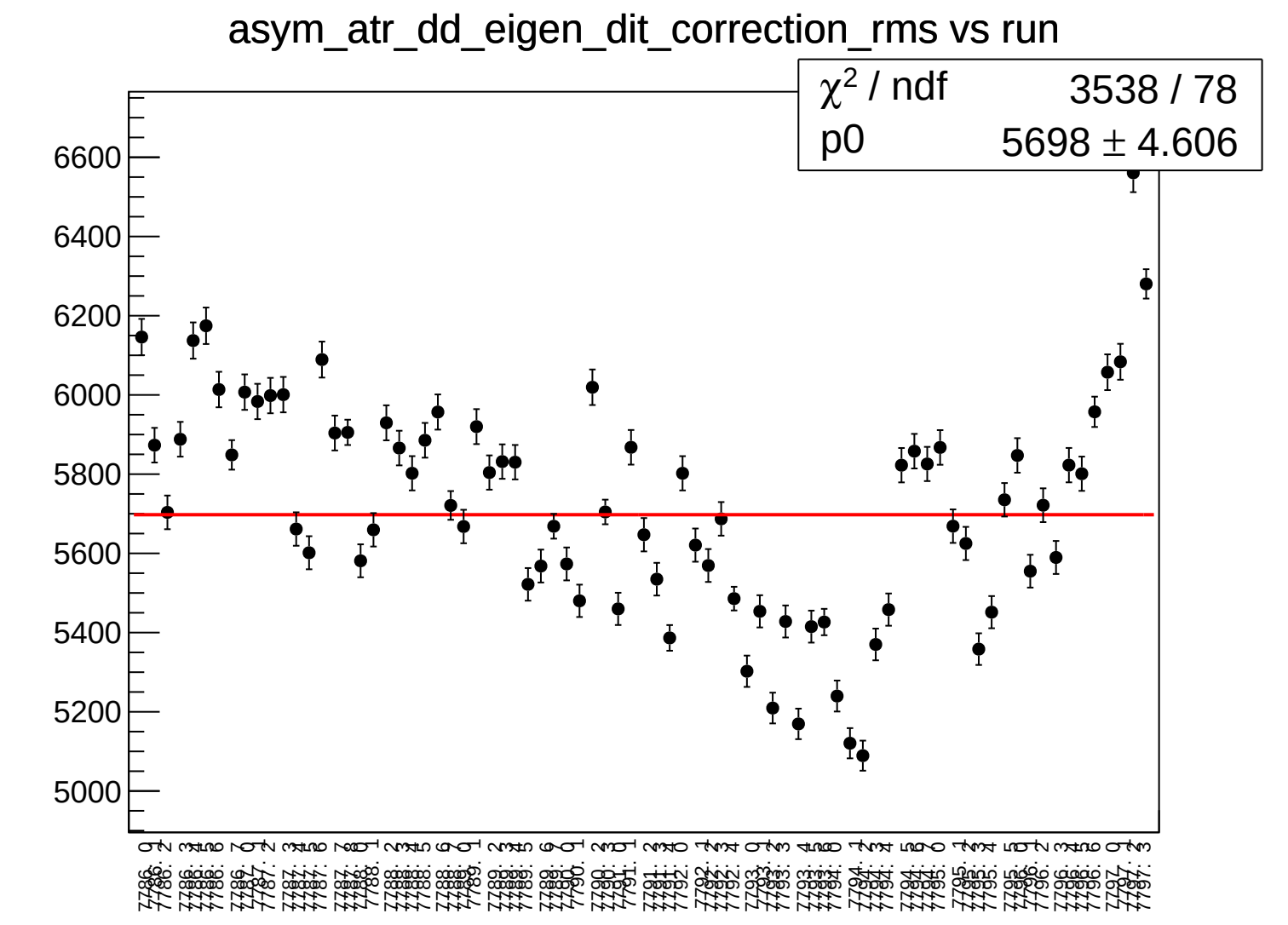

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 61.24 / 78
p0 45.59 ± 2244
pull
Entries 79
Mean −36.85
Std Dev 0

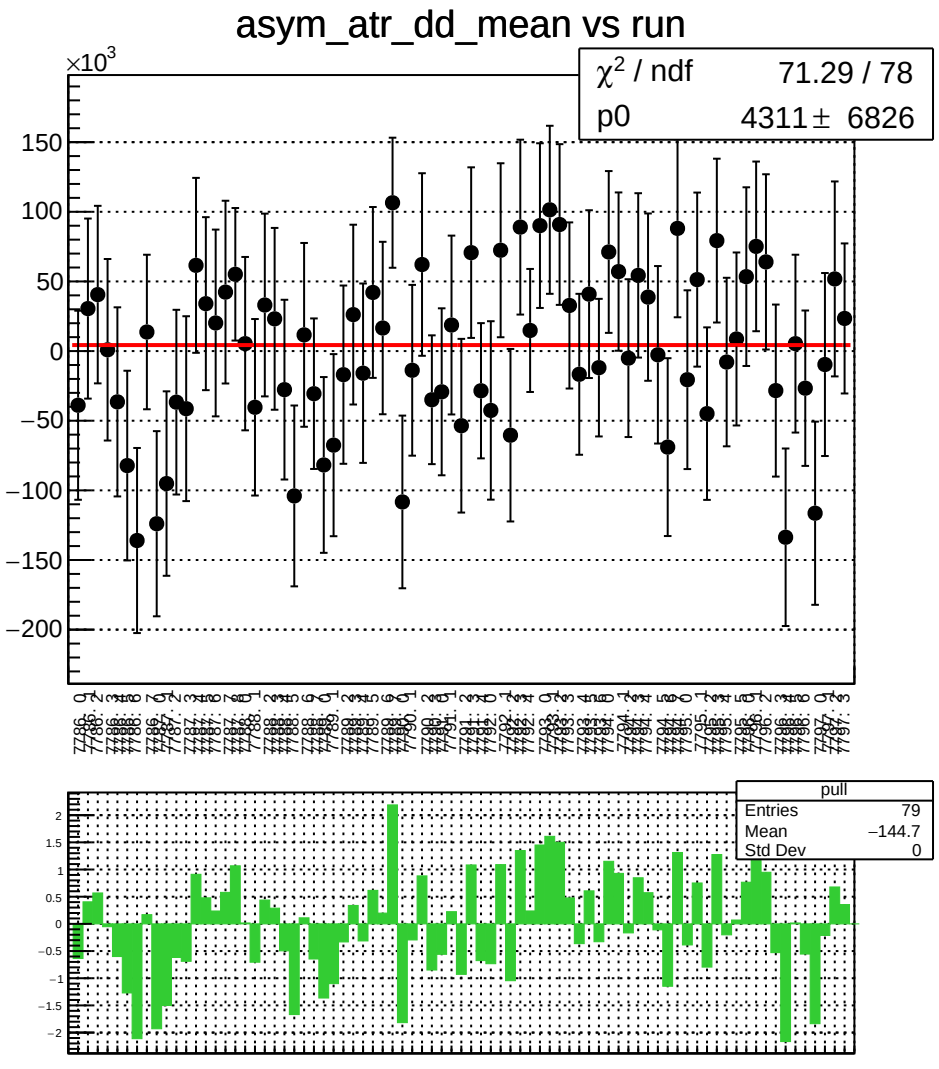

pull1D
Entries 79
Mean −0.01658
Std Dev 0.8803

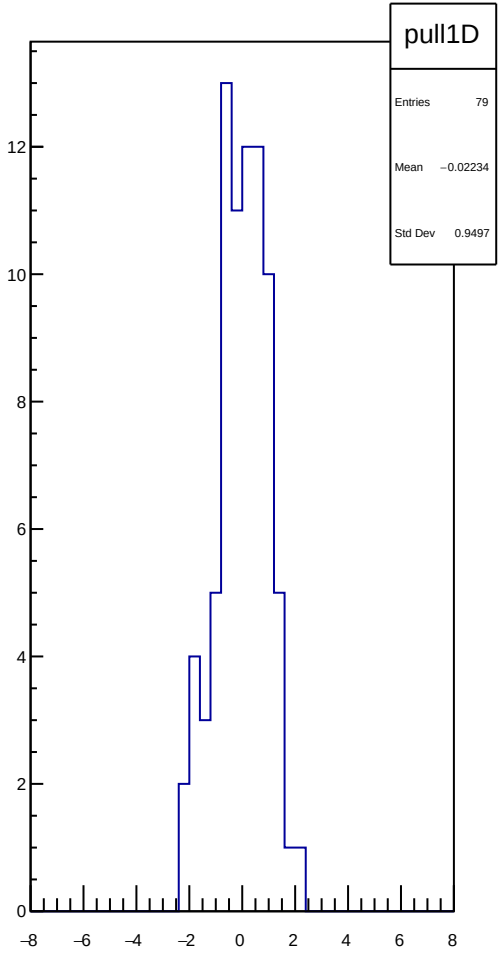

eigen_dit_asym_atr_dd_rms vs run
χ^2 / ndf 137.9 / 78
p0 1965 ± 1.587
2040
2020
2000
1980
1960
1940
1920

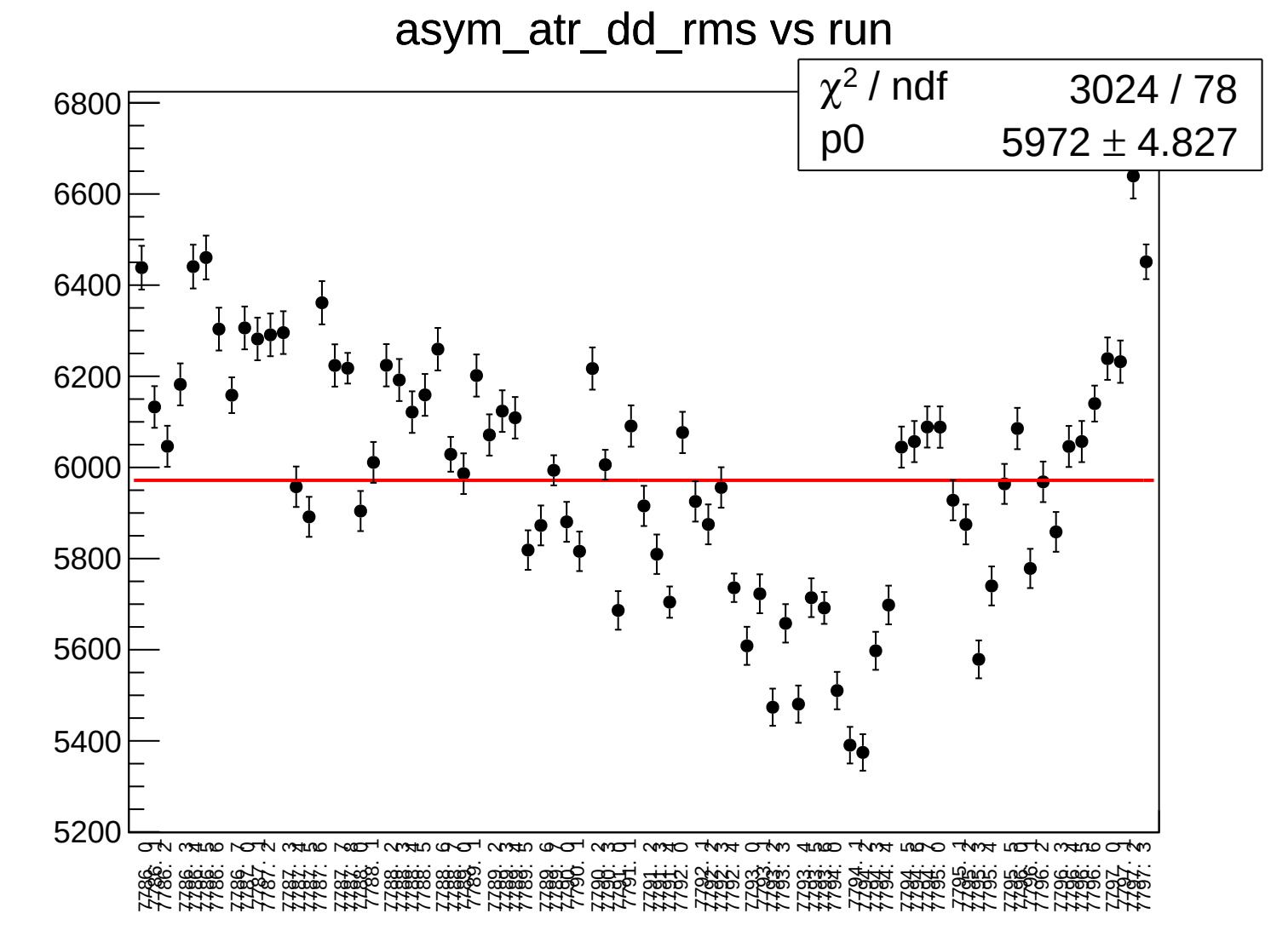

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.29 / 78
p0 −4153 ± 6513
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 79
Mean −192.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

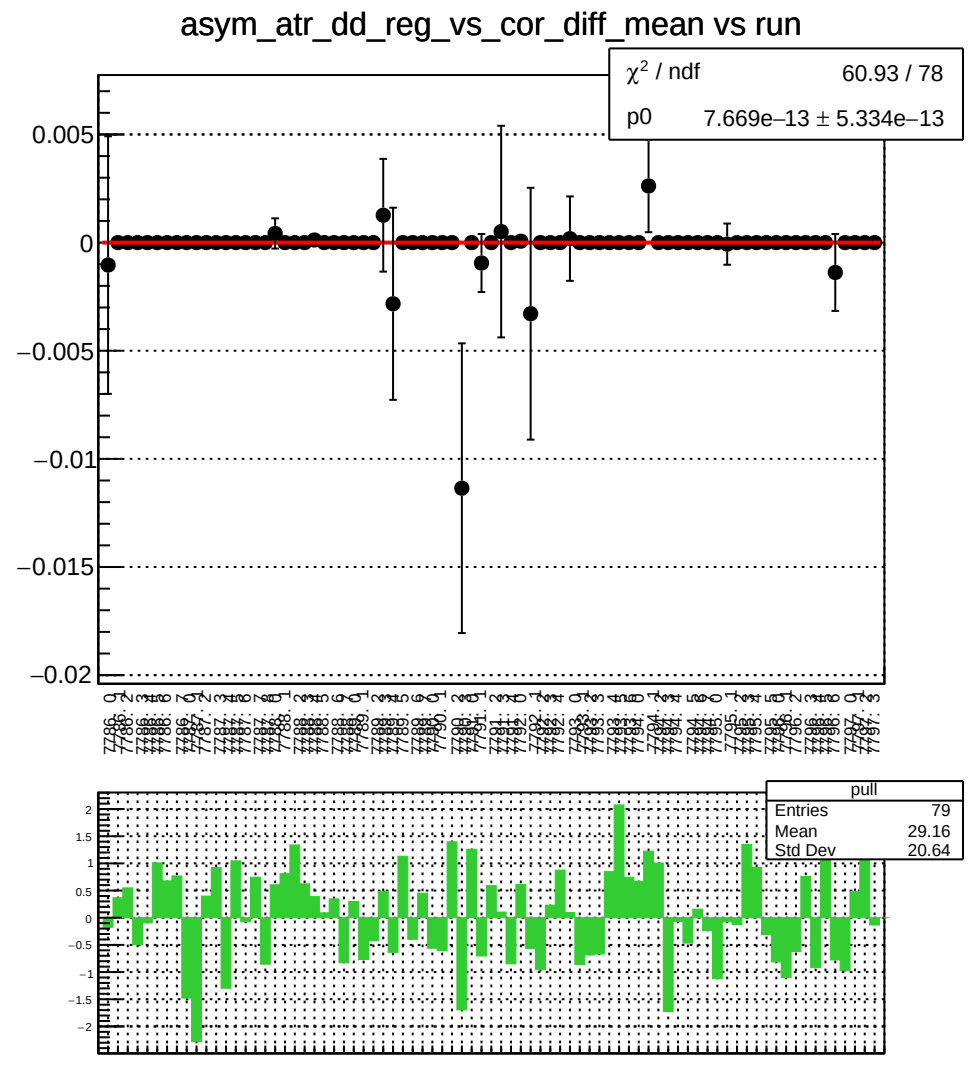

pull1D
Entries 79
Mean 0.01677
Std Dev 0.989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

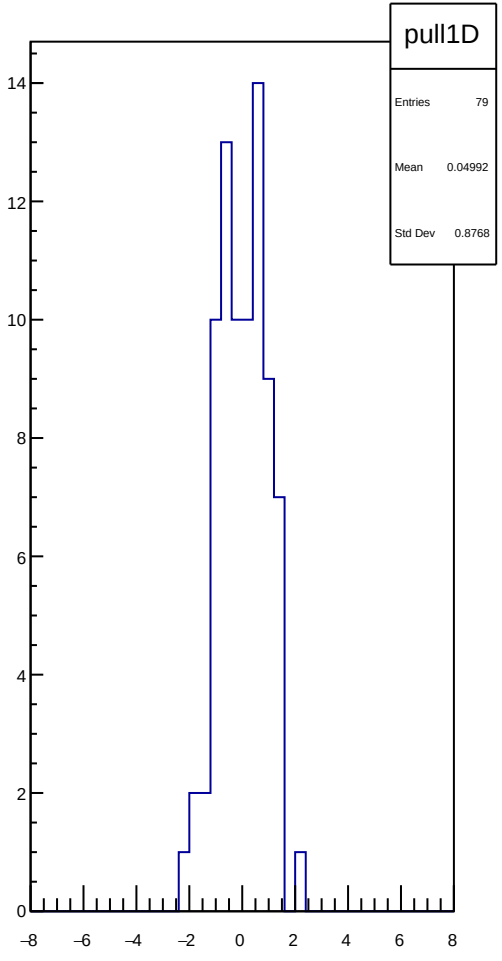

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3538 / 78
p0 5698 ± 4.606
6600
6400
6200
6000
5800
5600
5400
5200
5000

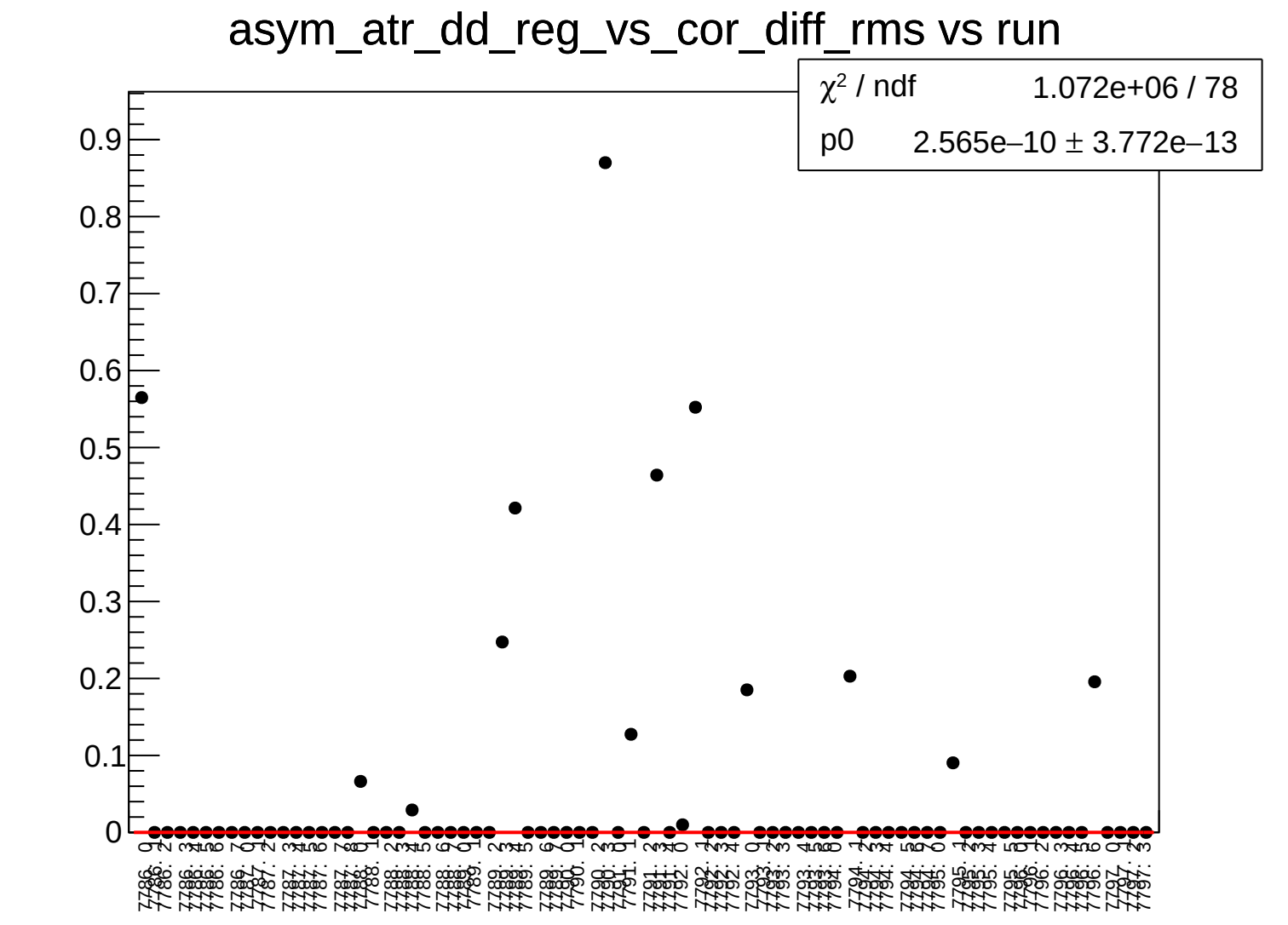

asym_atr_dd_mean vs run
×10^3
χ² / ndf 71.29 / 78
p0 4311 ± 6826
150
100
50
0
−50
−100
−150
−200
pull
Entries 79
Mean −144.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

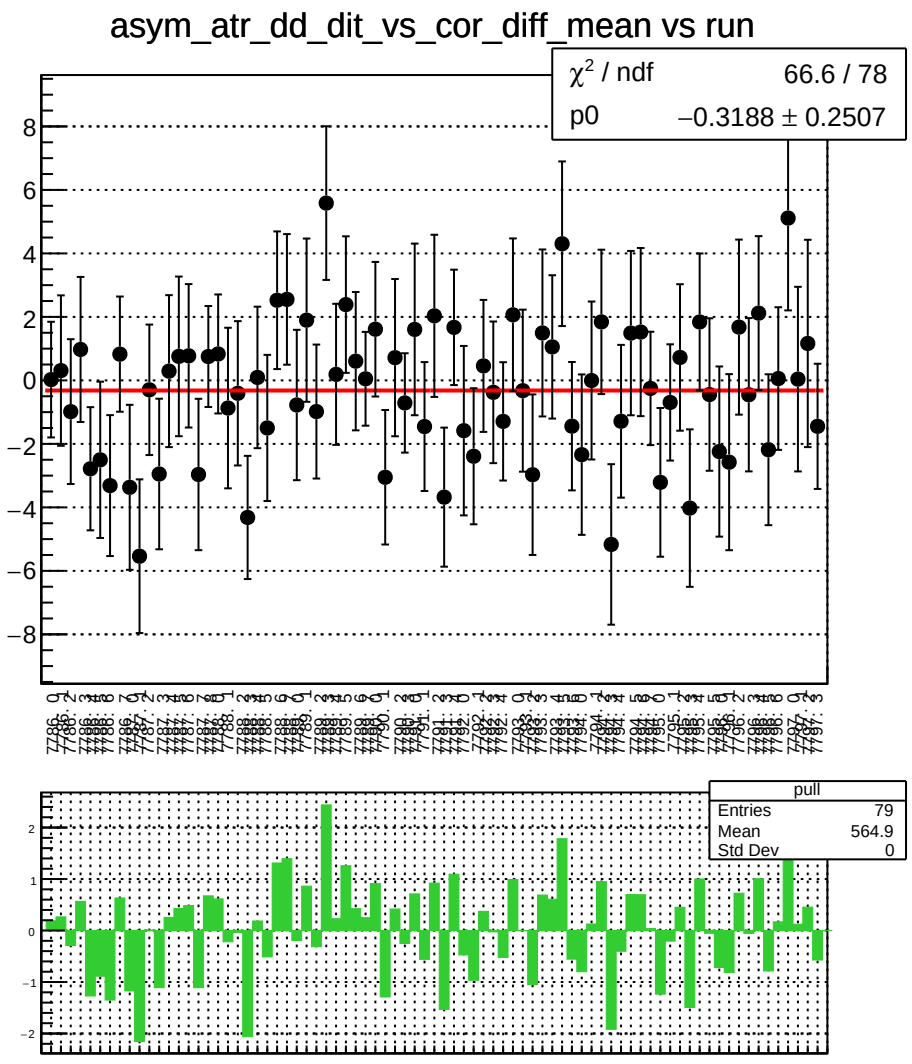

pull1D
Entries 79
Mean −0.02234
Std Dev 0.9497
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

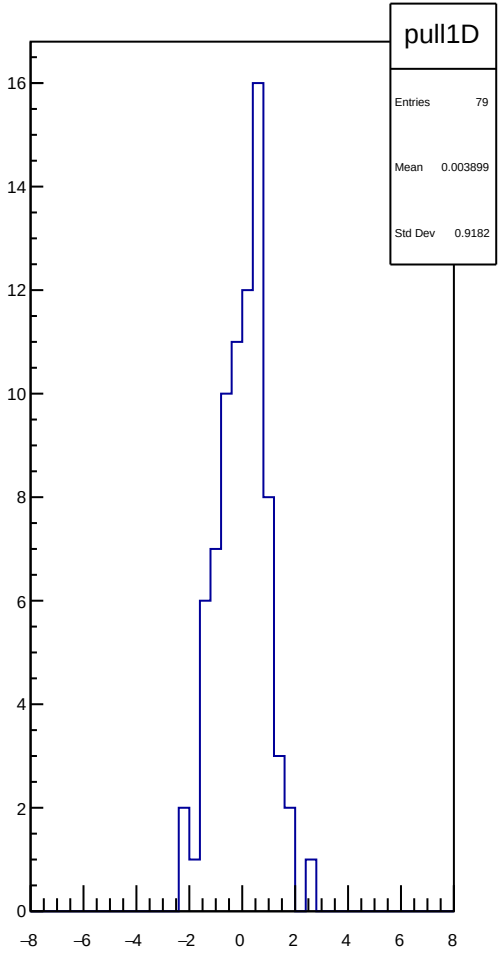

asym_atr_dd_rms vs run
χ² / ndf 3024 / 78
p0 5972 ± 4.827
6800
6600
6400
6200
6000
5800
5600
5400
5200

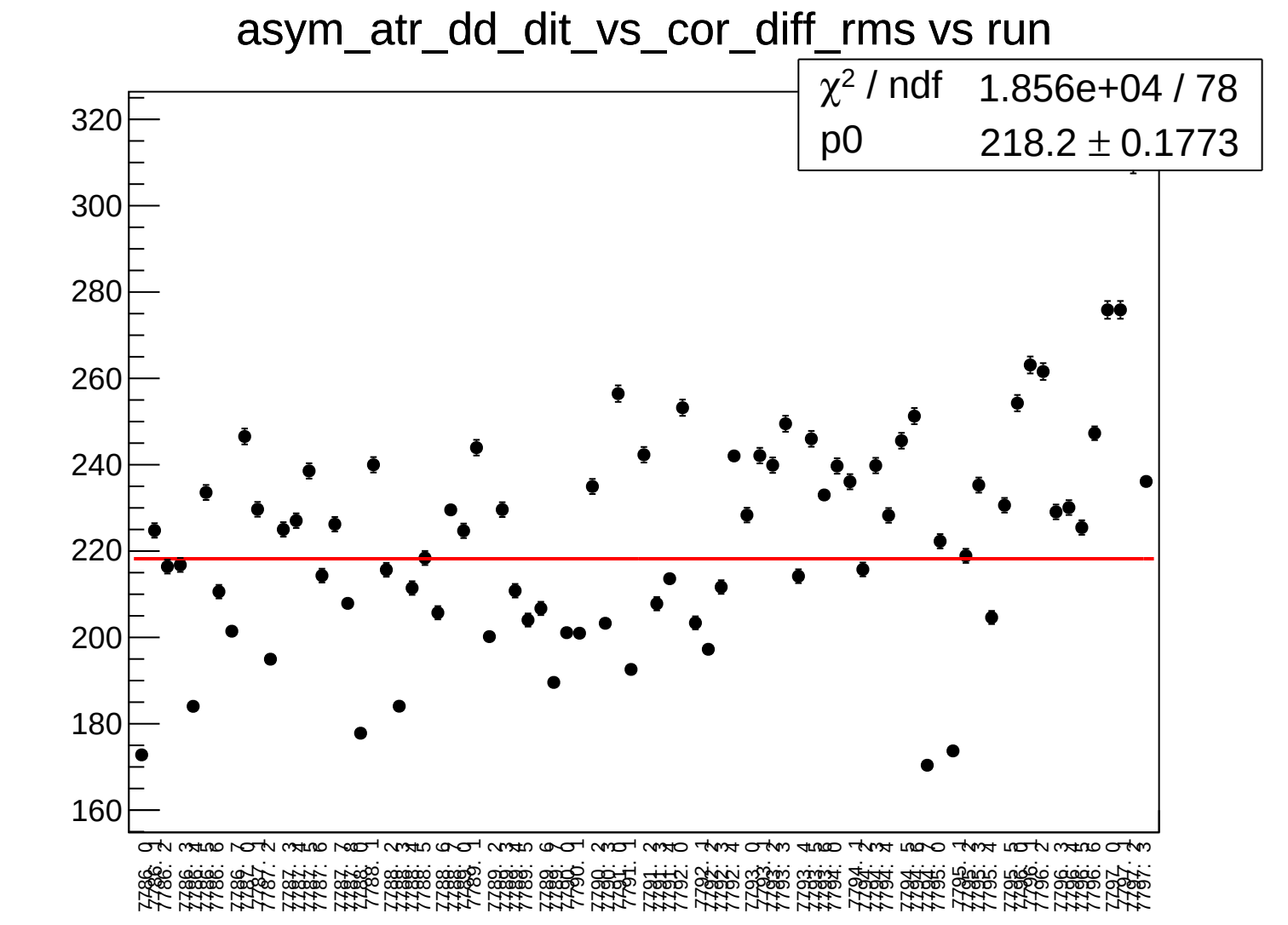

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 60.93 / 78
p0 7.669e−13 ± 5.334e−13
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 79
Mean 29.16
Std Dev 20.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

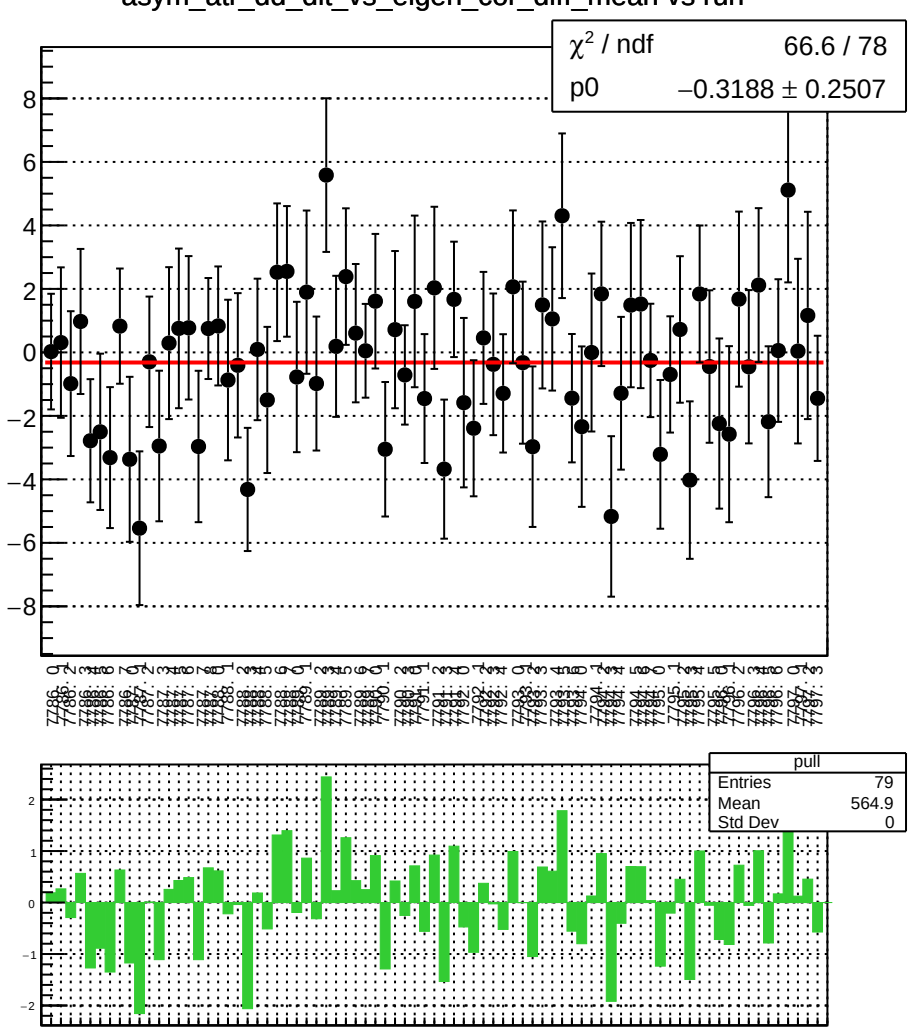

pull1D
Entries 79
Mean 0.04992
Std Dev 0.8768
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

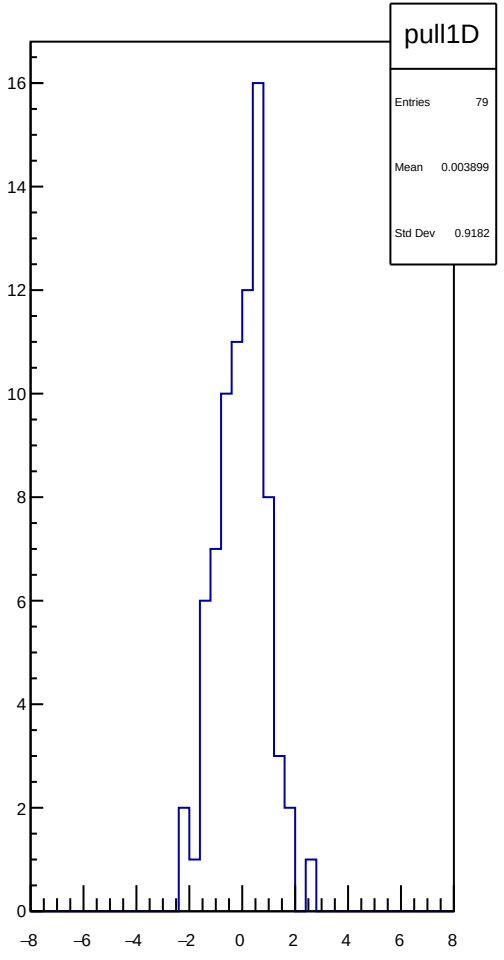

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.072e+06 / 78
p0 2.565e−10 ± 3.772e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

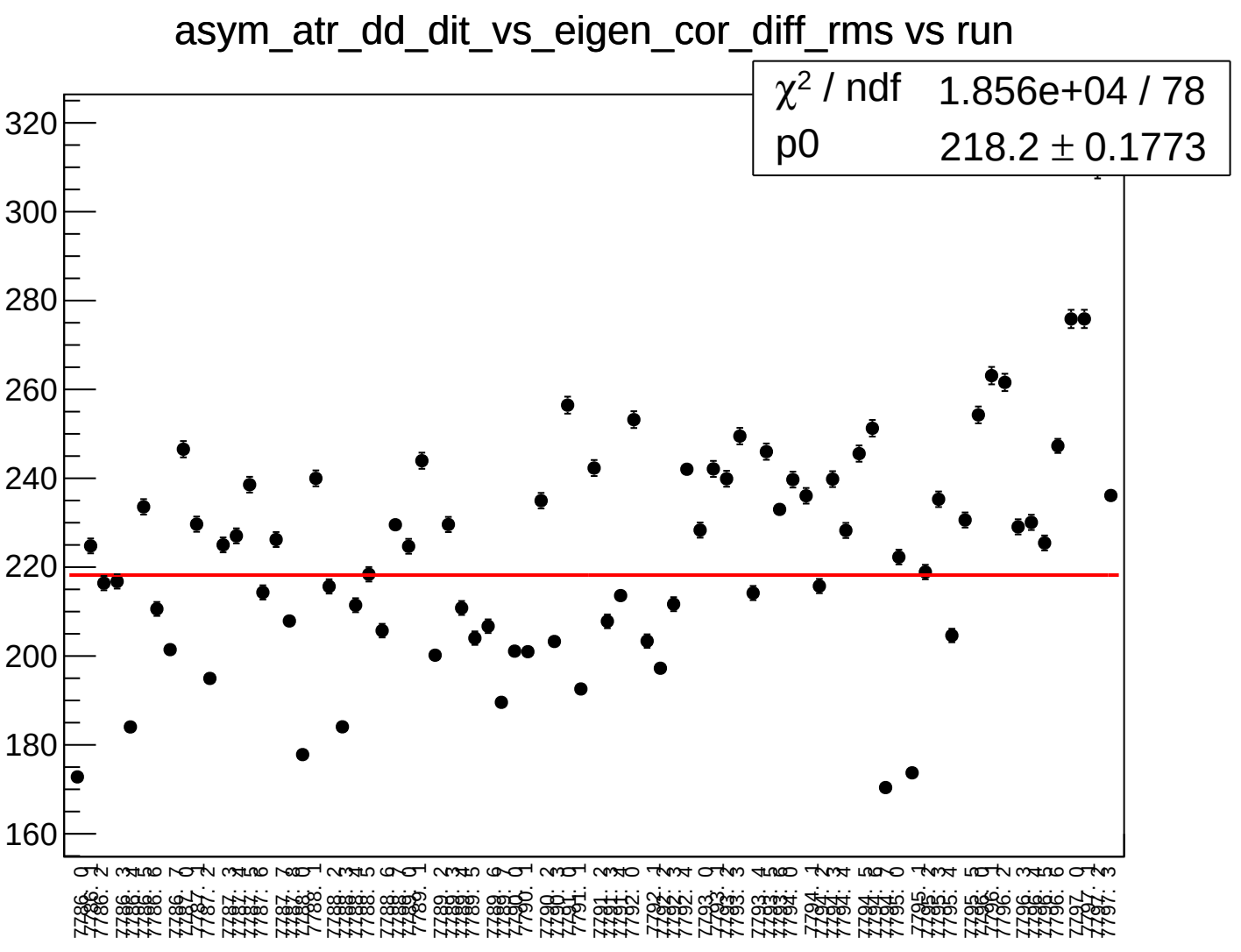

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.6 / 78
p0 −0.3188 ± 0.2507
pull
Entries 79
Mean 564.9
Std Dev 0

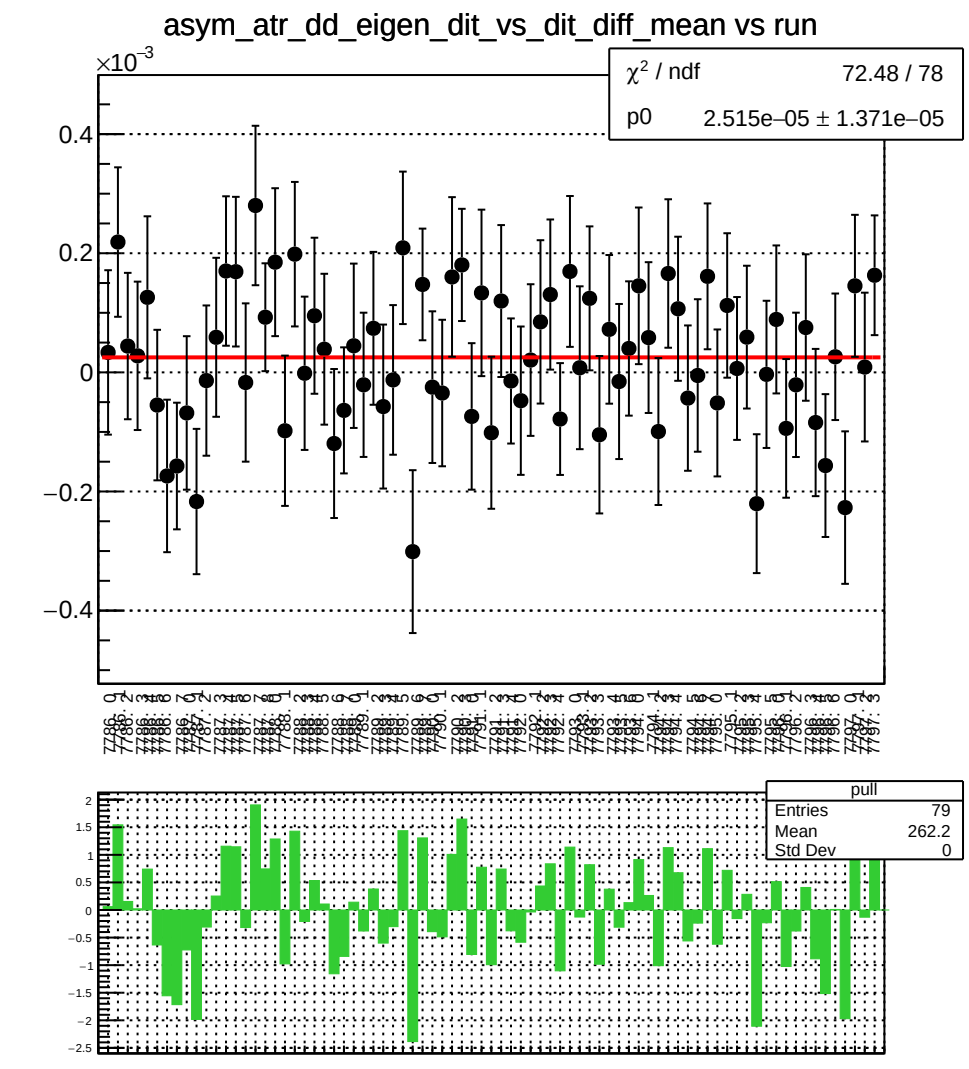

pull1D
Entries 79
Mean 0.003899
Std Dev 0.9182

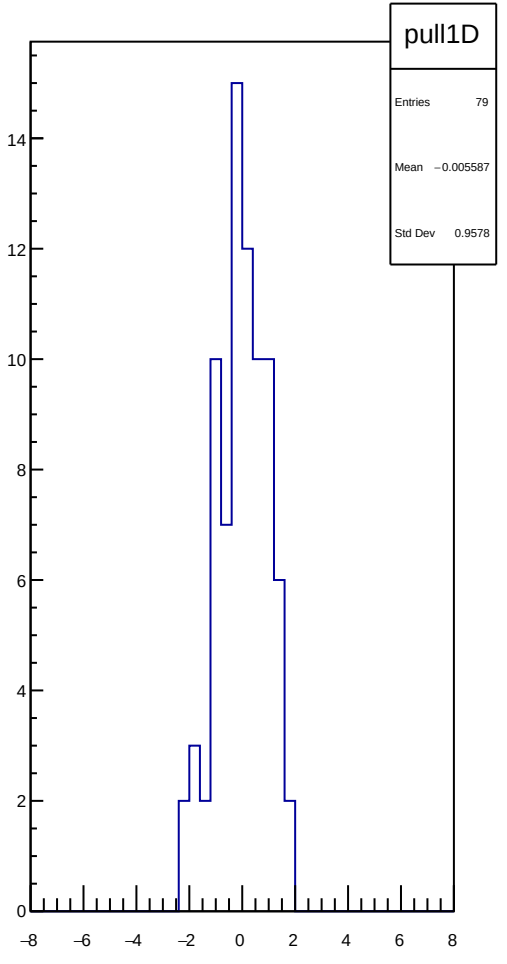

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.856e+04 / 78
p0 218.2 ± 0.1773
320
300
280
260
240
220
200
180
160

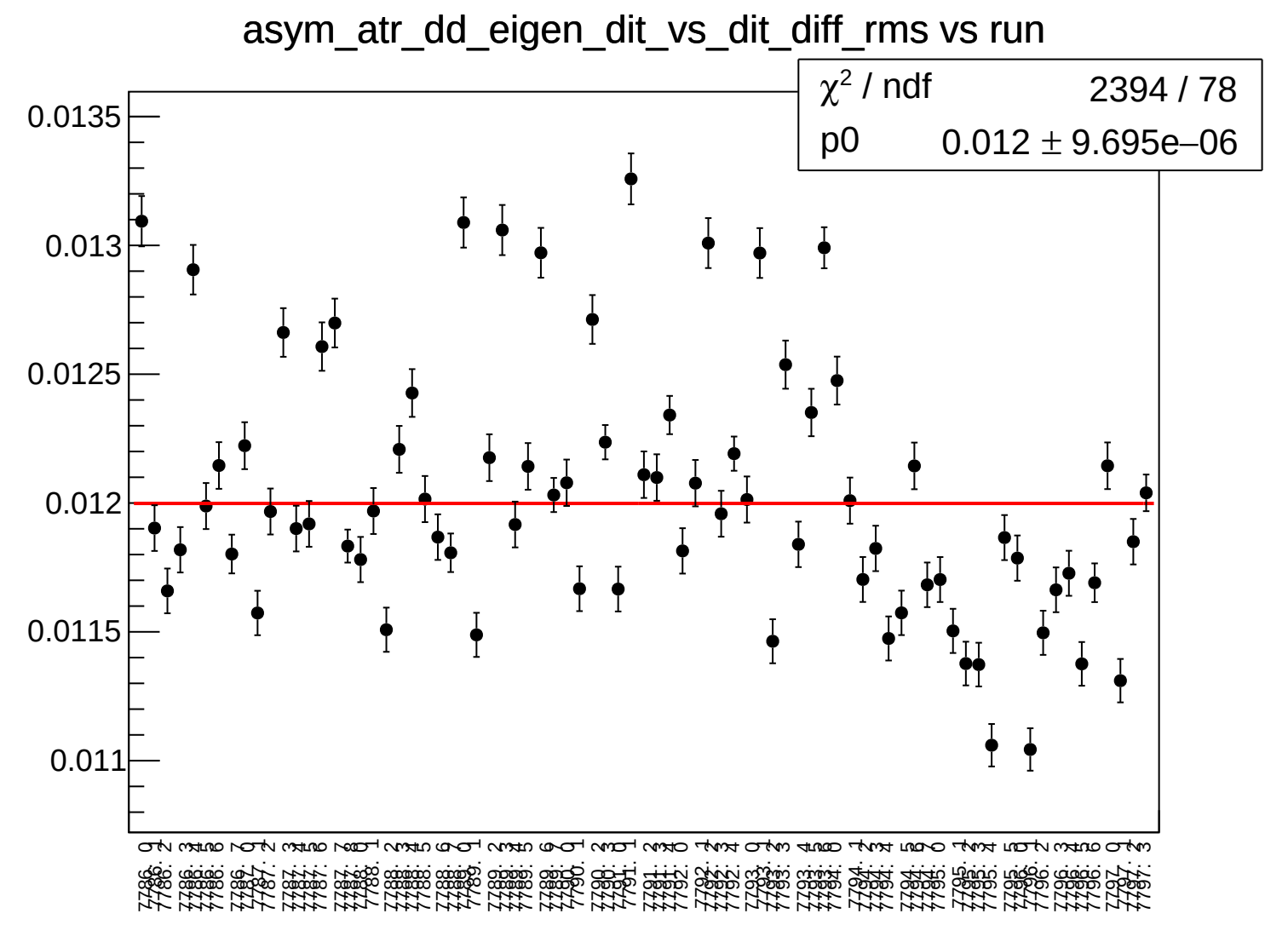

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.6 / 78
p0 −0.3188 ± 0.2507
pull
Entries 79
Mean 564.9
Std Dev 0

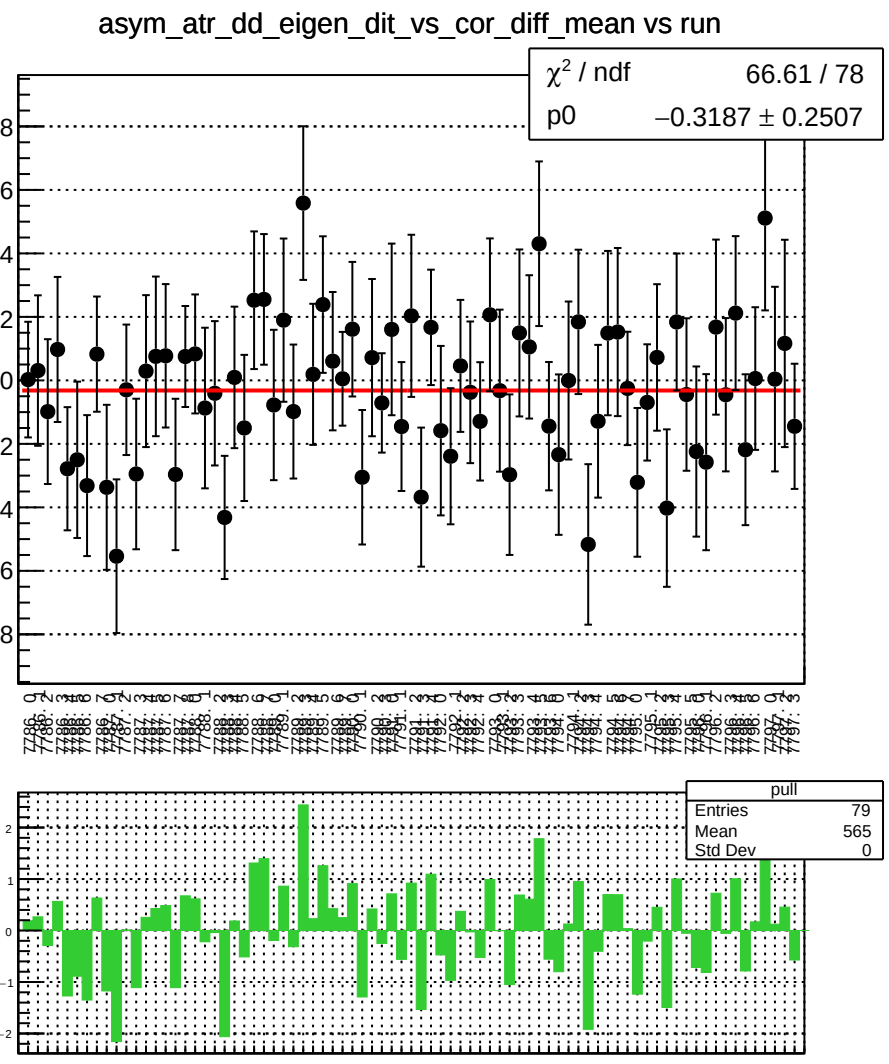

pull1D
Entries 79
Mean 0.003899
Std Dev 0.9182

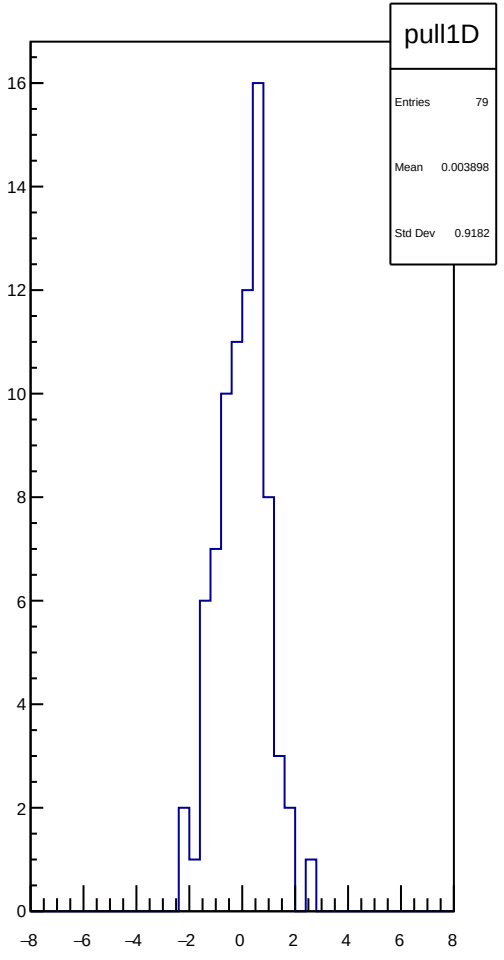

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.856e+04 / 78
p0 218.2 ± 0.1773
320
300
280
260
240
220
200
180
160

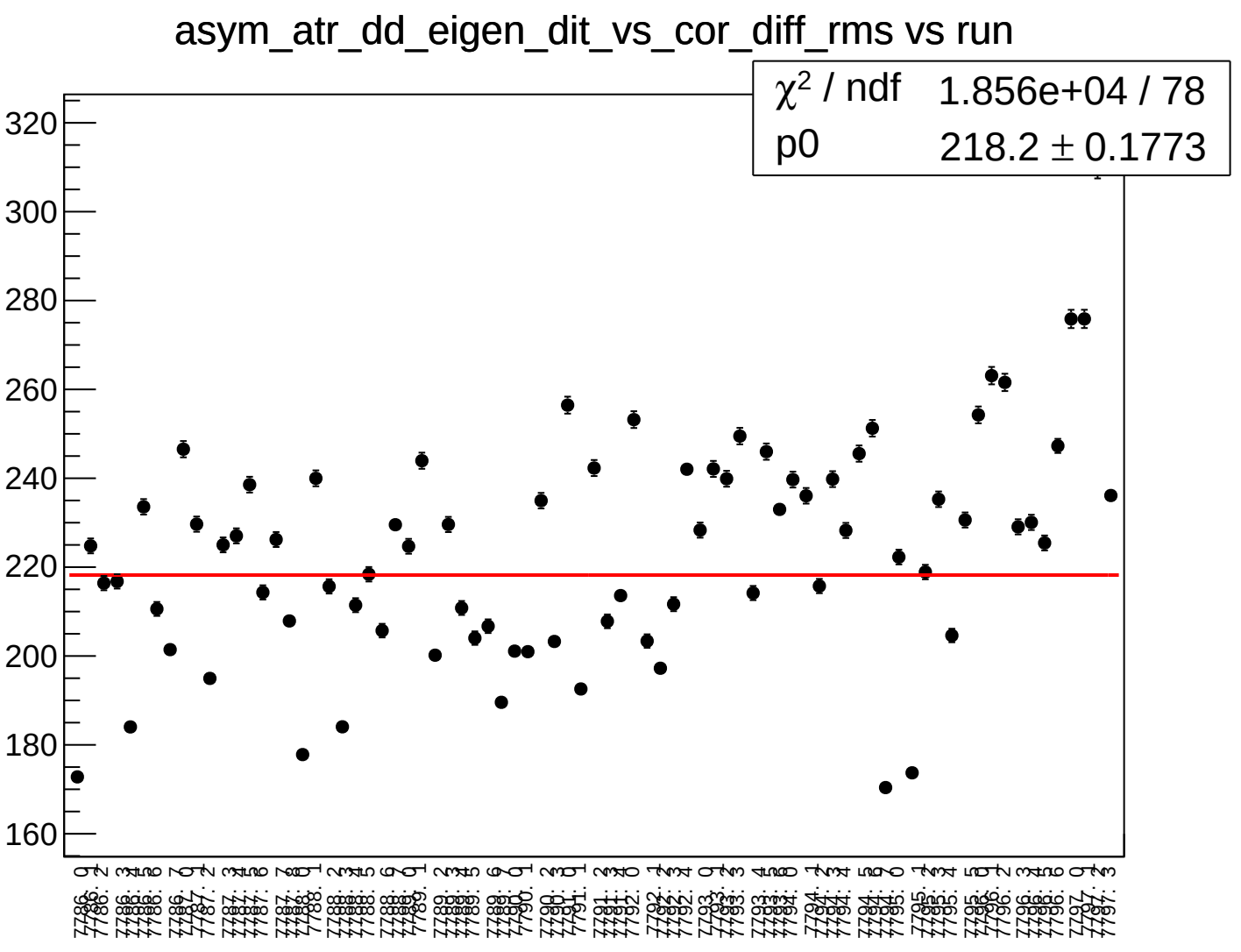

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.48 / 78
p0 2.515e−05 ± 1.371e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 79
Mean 262.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

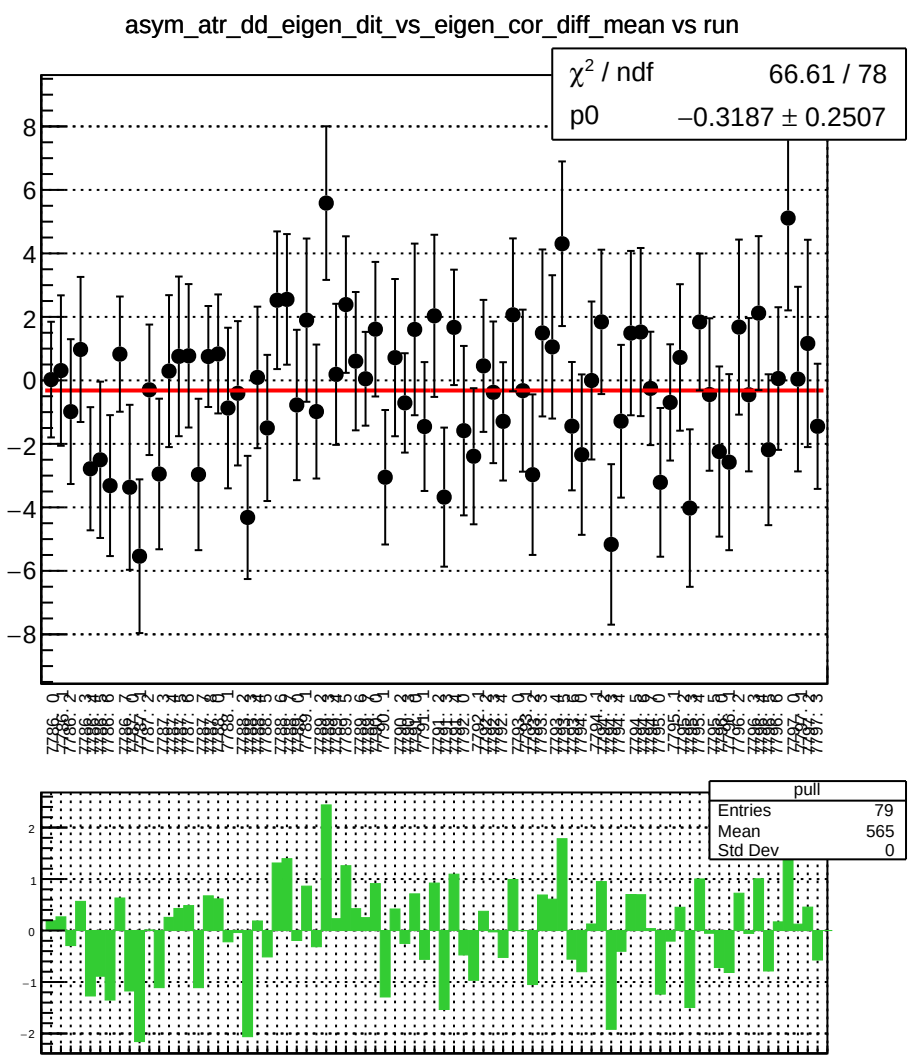

pull1D
Entries 79
Mean −0.005587
Std Dev 0.9578
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

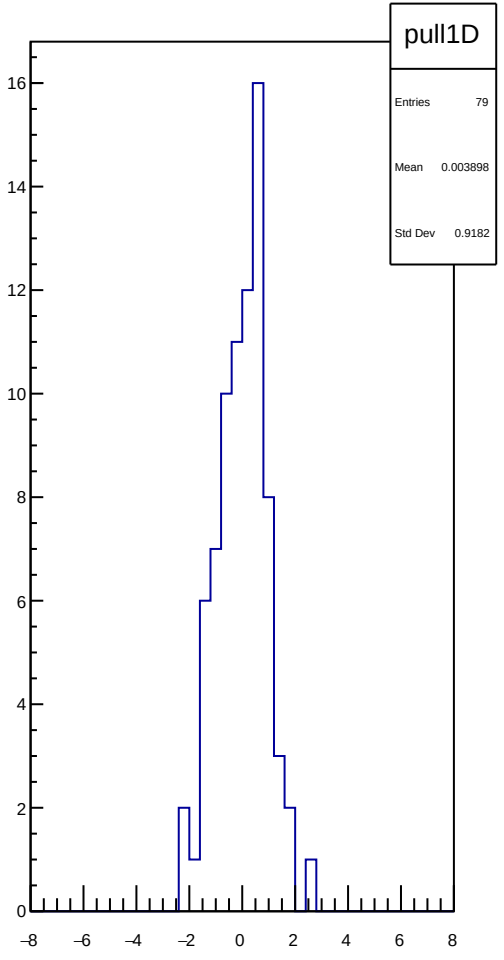

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2394 / 78
p0 0.012 ± 9.695e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011

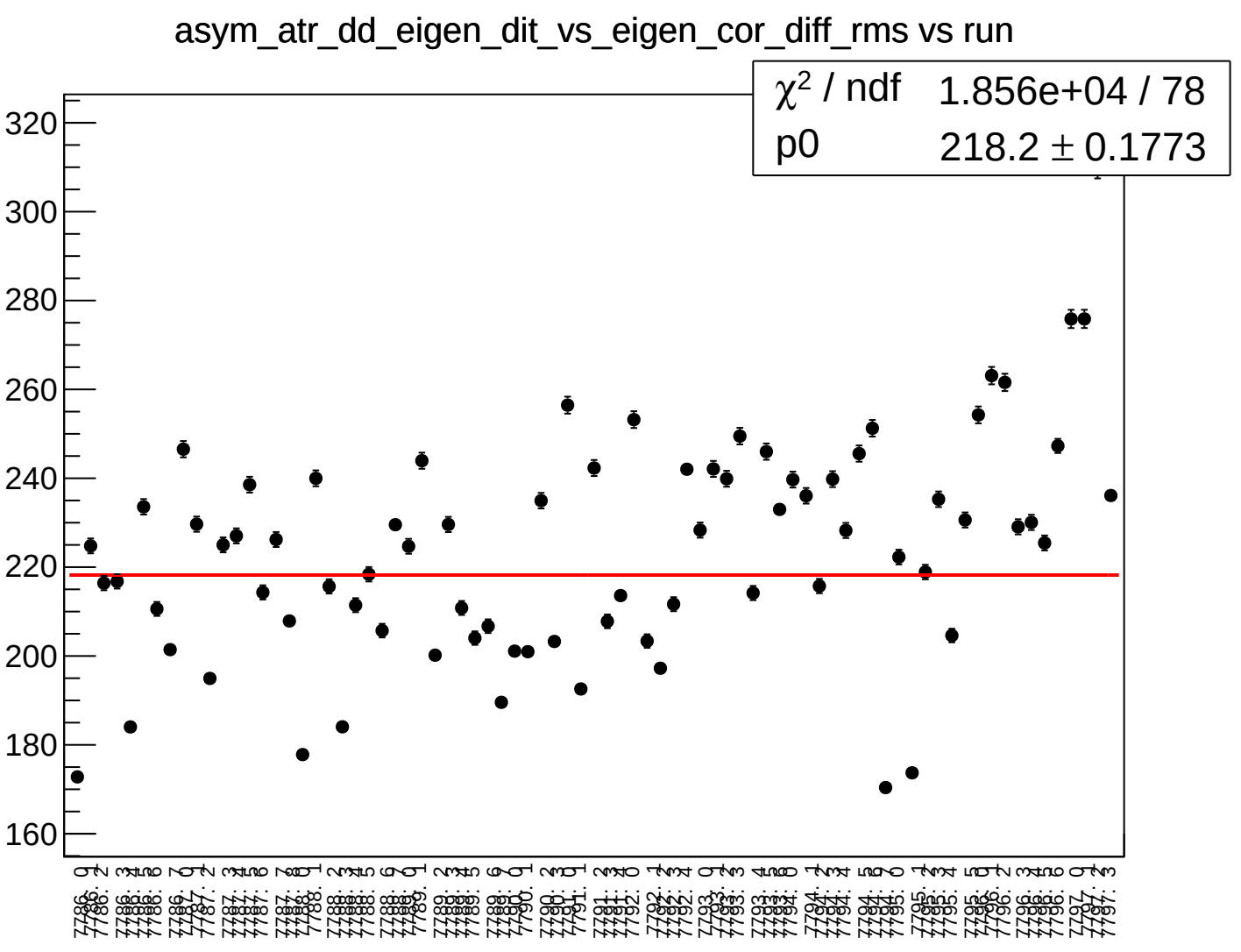

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.61 / 78
p0 −0.3187 ± 0.2507
pull
Entries 79
Mean 565
Std Dev 0

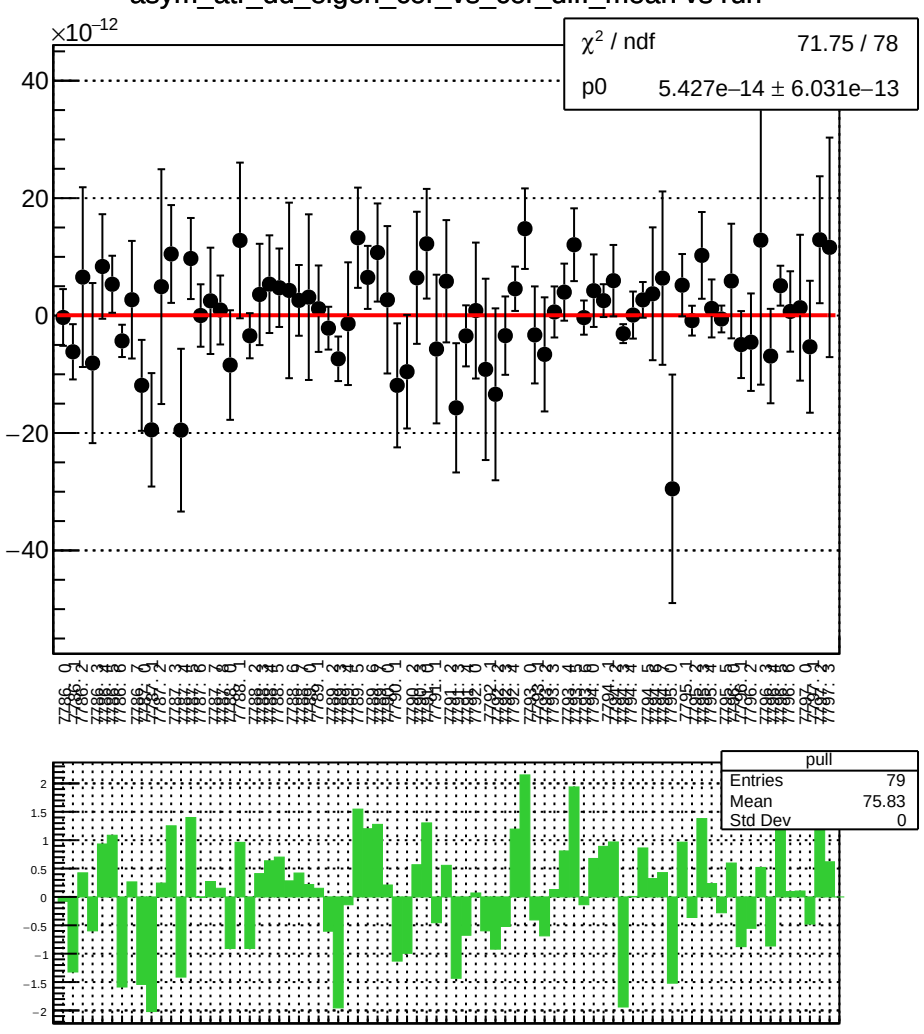

pull1D
Entries 79
Mean 0.003898
Std Dev 0.9182

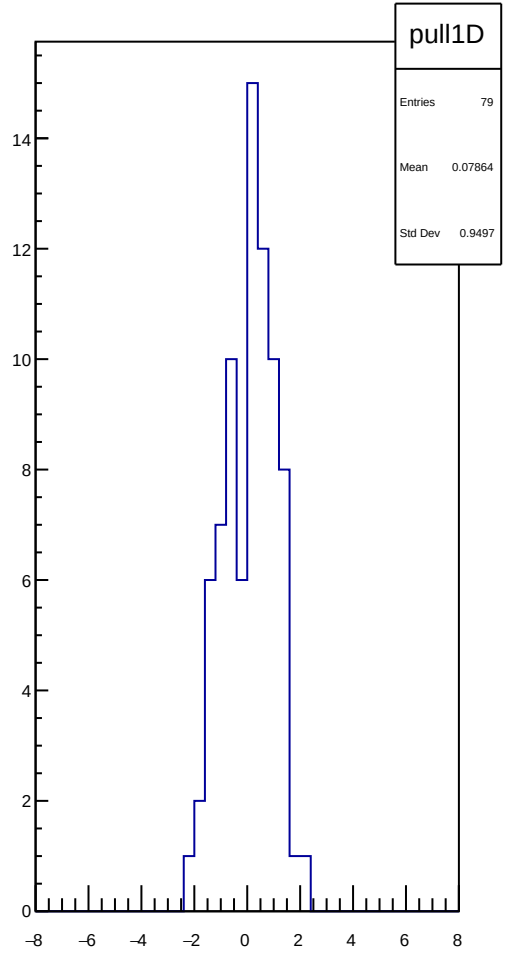

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.856e+04 / 78
p0 218.2 ± 0.1773
320
300
280
260
240
220
200
180
160

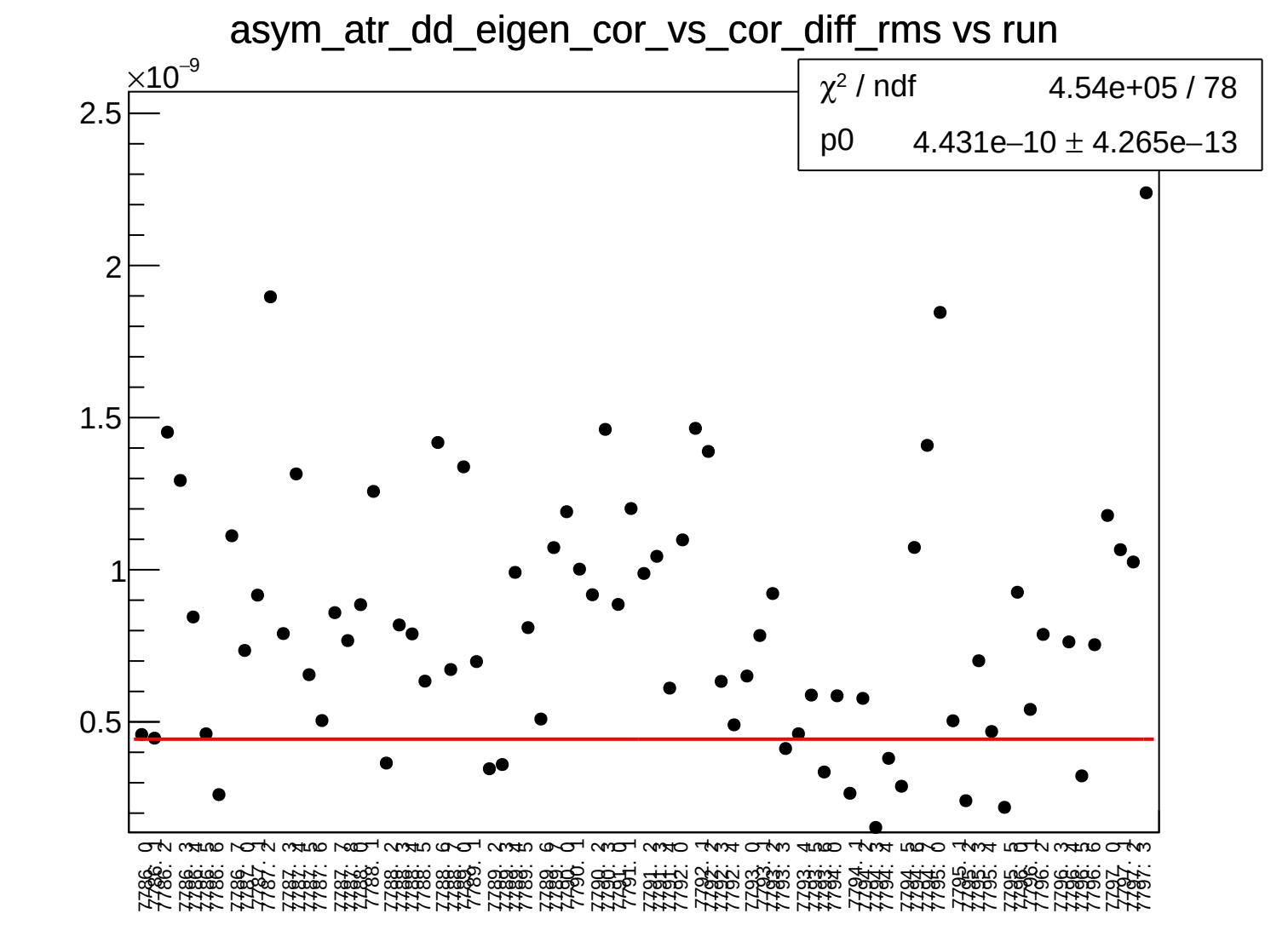

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.61 / 78
p0 −0.3187 ± 0.2507
pull
Entries 79
Mean 565
Std Dev 0

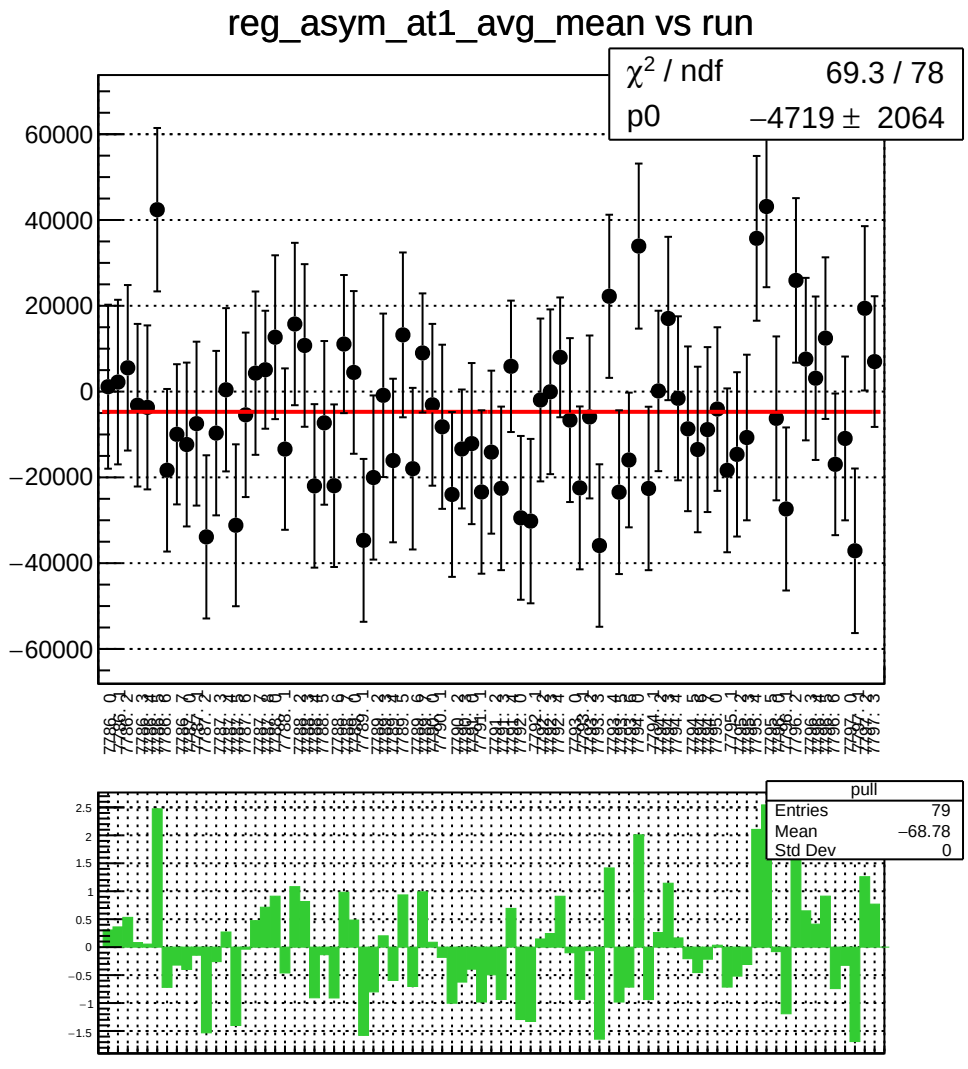

pull1D
Entries 79
Mean 0.003898
Std Dev 0.9182

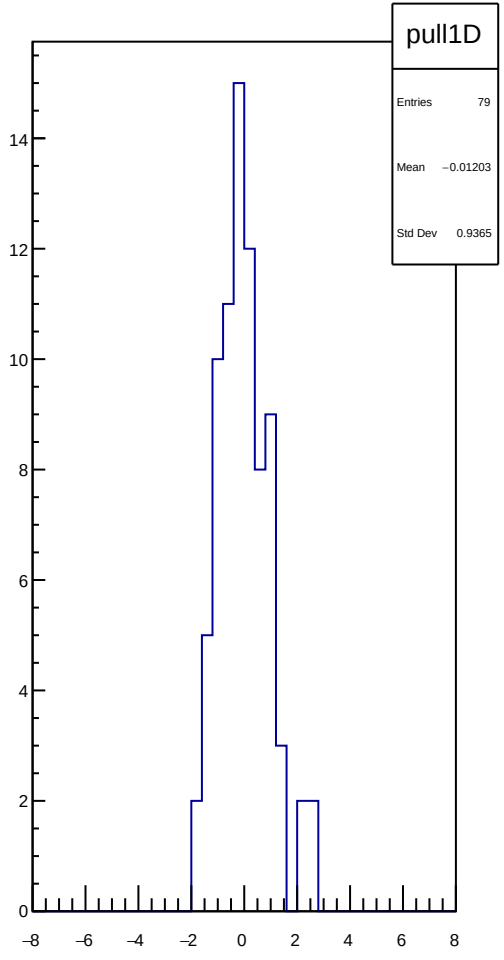

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.856e+04 / 78
p0 218.2 ± 0.1773
320
300
280
260
240
220
200
180
160

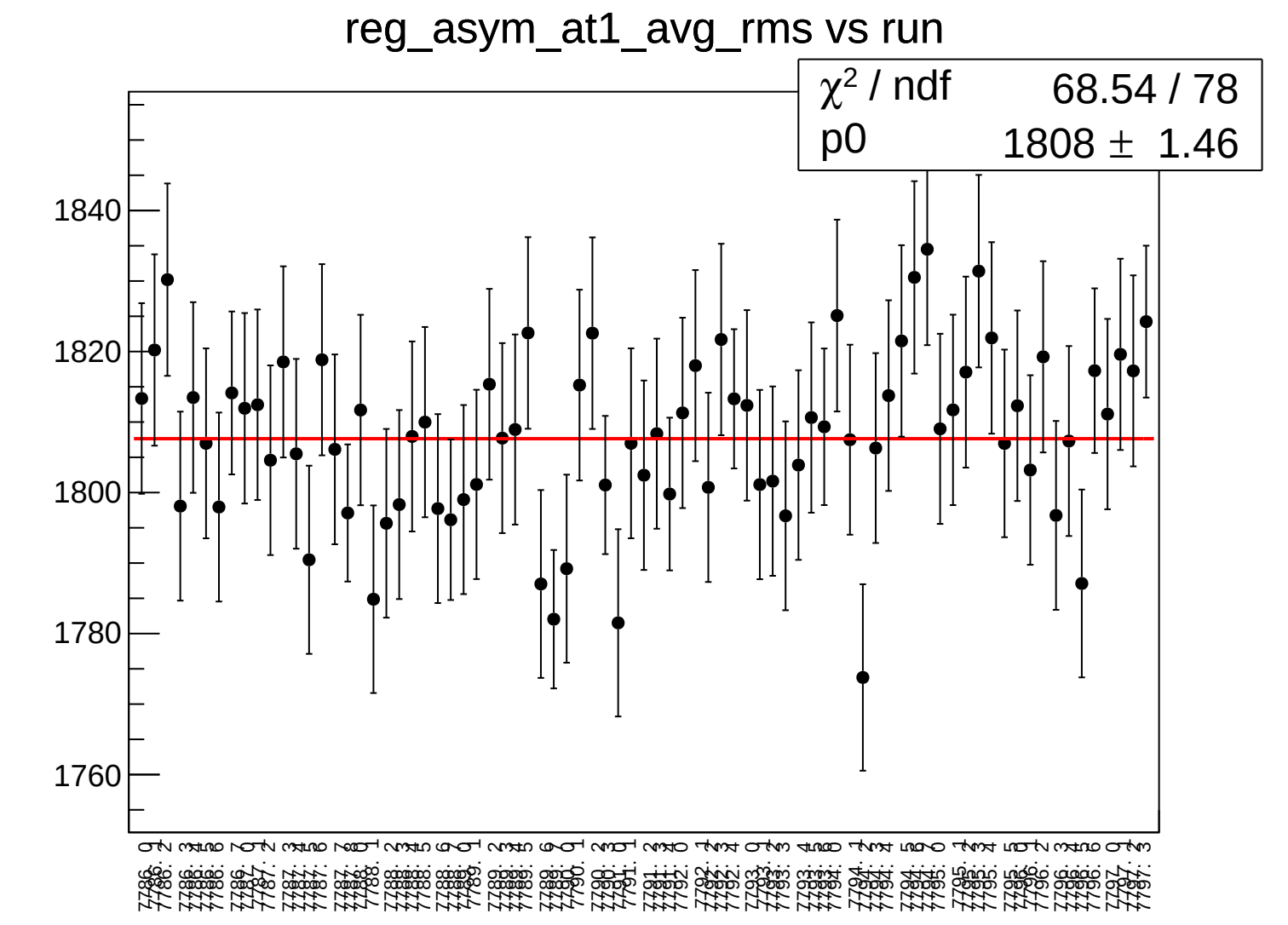

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 71.75 / 78
p0 5.427e−14 ± 6.031e−13
pull
Entries 79
Mean 75.83
Std Dev 0

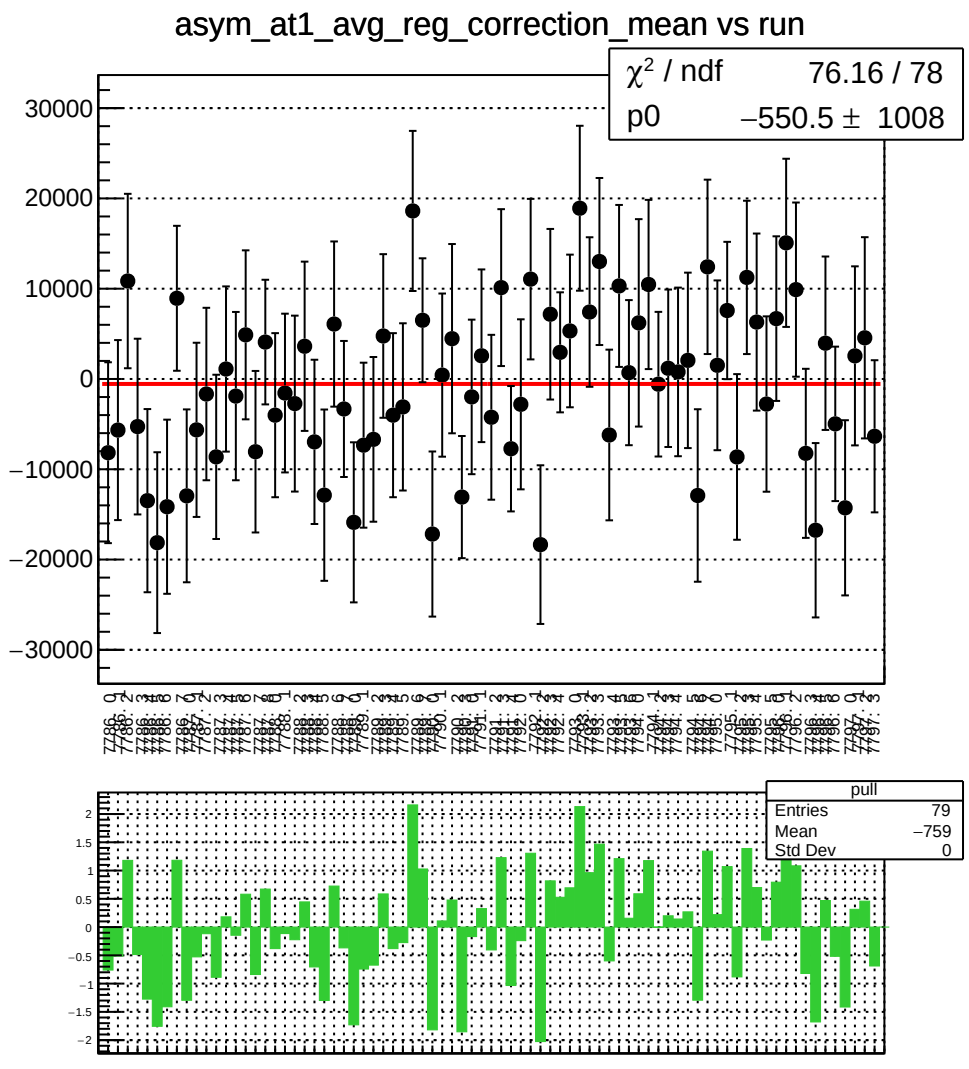

pull1D
Entries 79
Mean 0.07864
Std Dev 0.9497

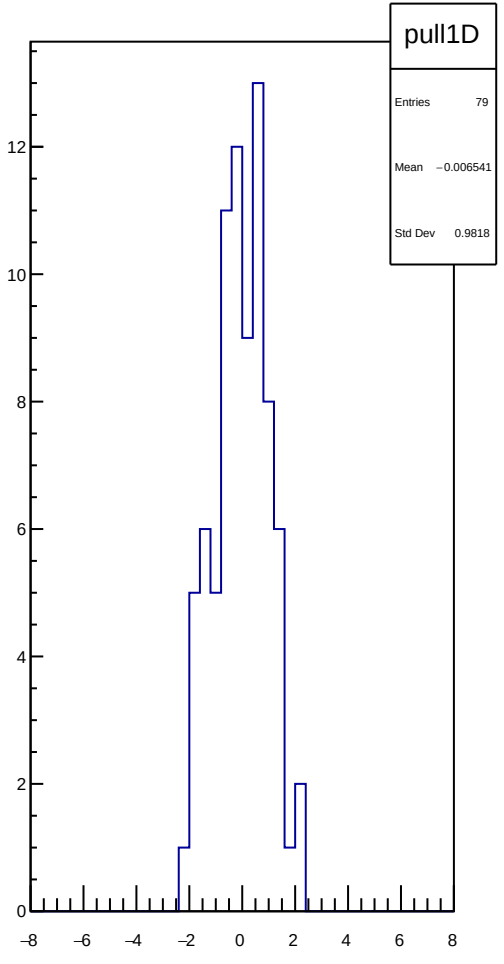

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.54e+05 / 78
p0 4.431e−10 ± 4.265e−13
2.5
2
1.5
1
0.5

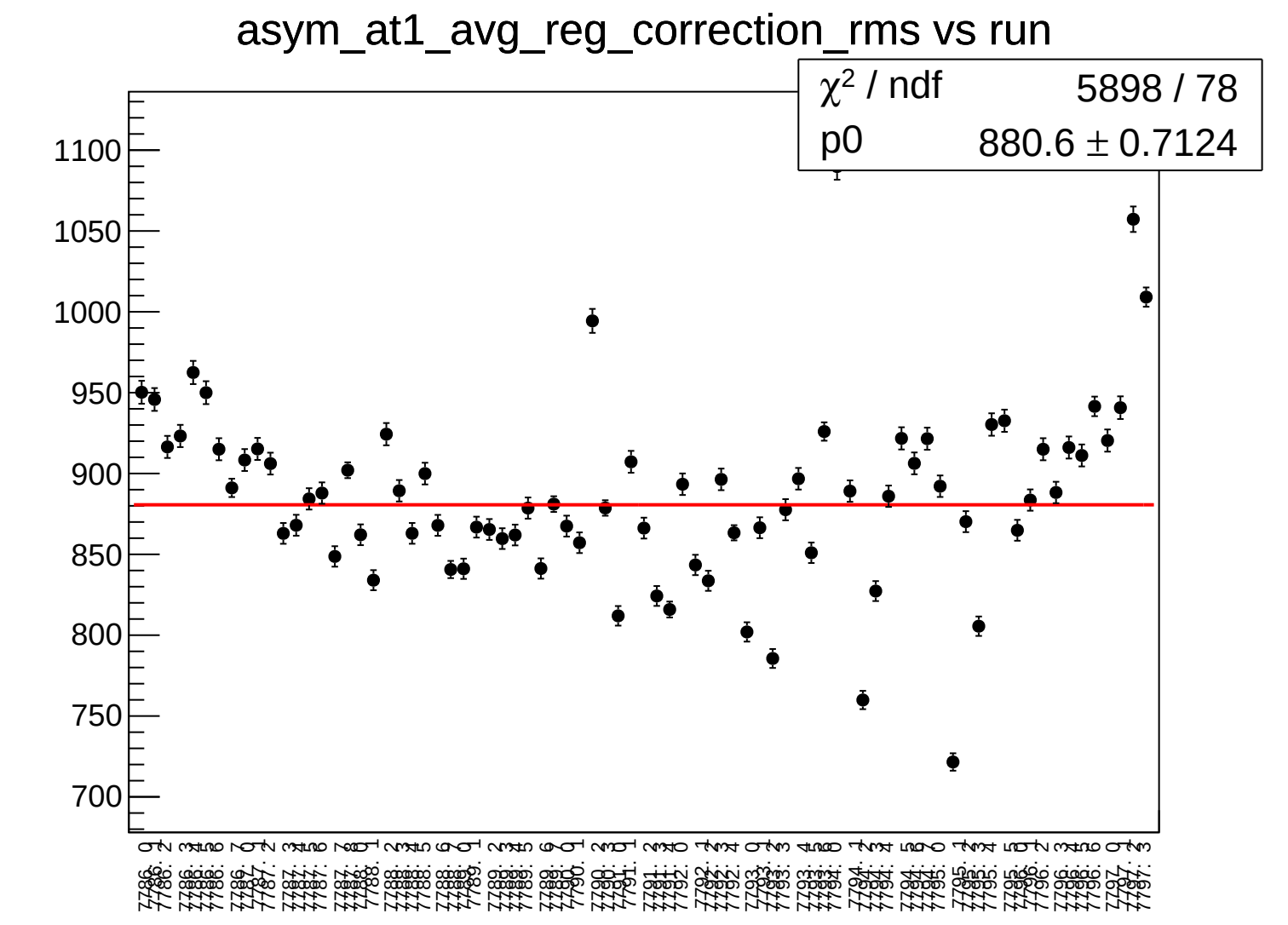

reg_asym_at1_avg_mean vs run
χ² / ndf 69.3 / 78
p0 −4719 ± 2064
pull
Entries 79
Mean −68.78
Std Dev 0

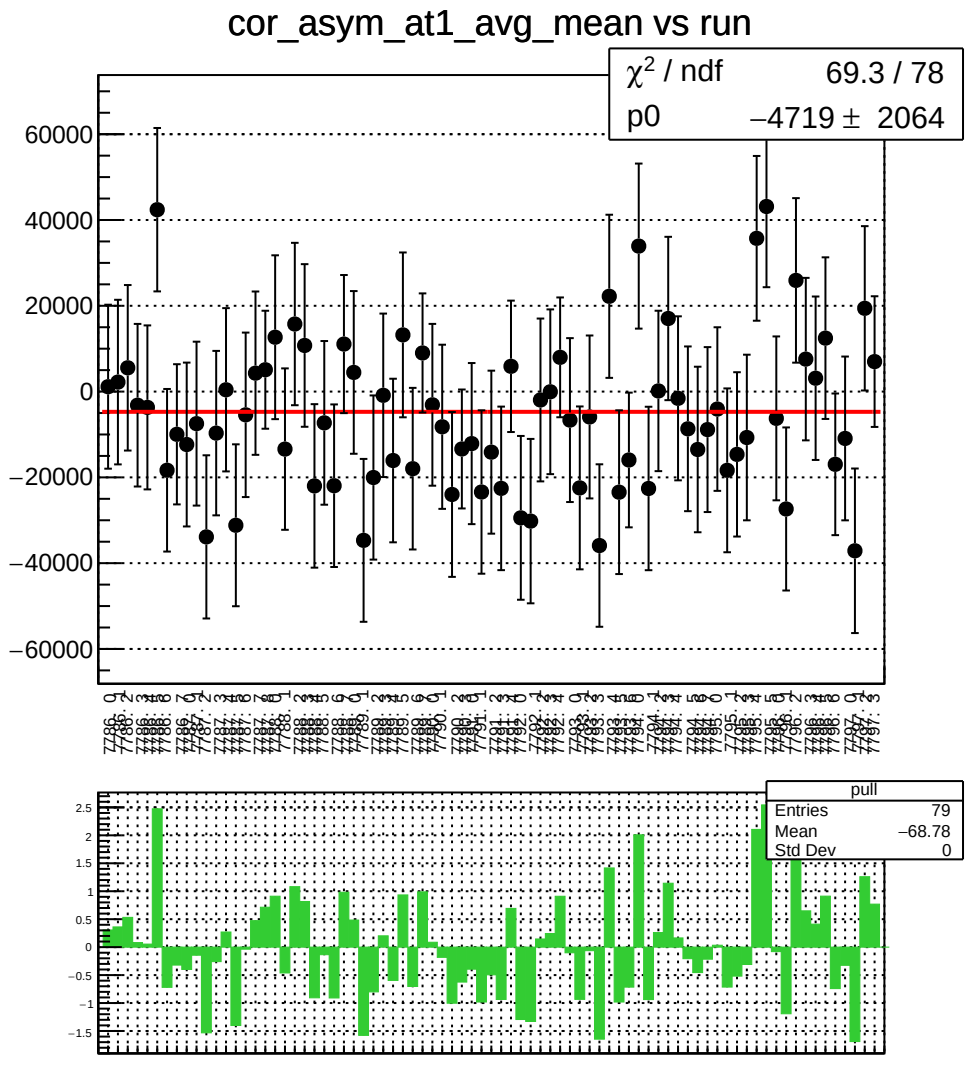

pull1D
Entries 79
Mean −0.01203
Std Dev 0.9365

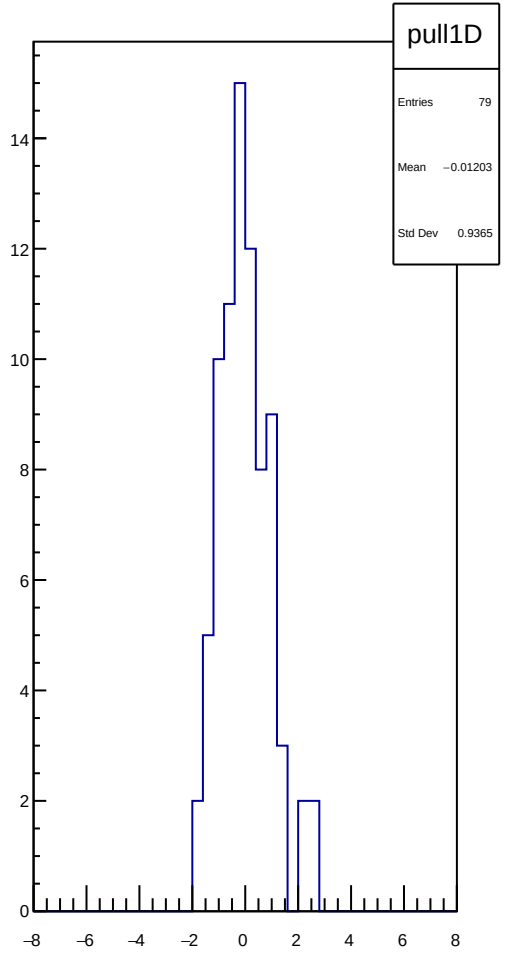

reg_asym_at1_avg_rms vs run
χ² / ndf 68.54 / 78
p0 1808 ± 1.46
1840
1820
1800
1780
1760

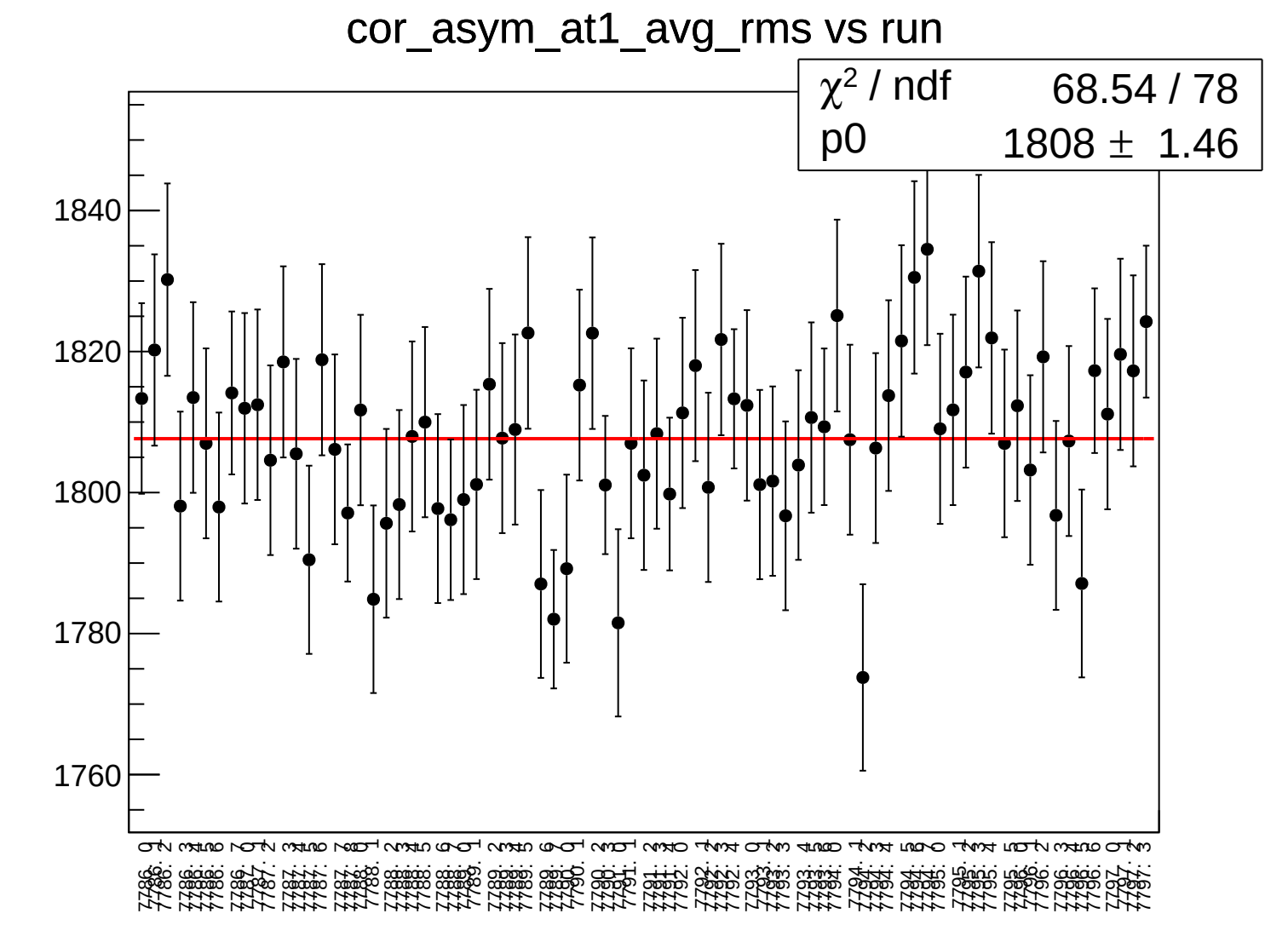

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 76.16 / 78
p0 −550.5 ± 1008
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −759
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

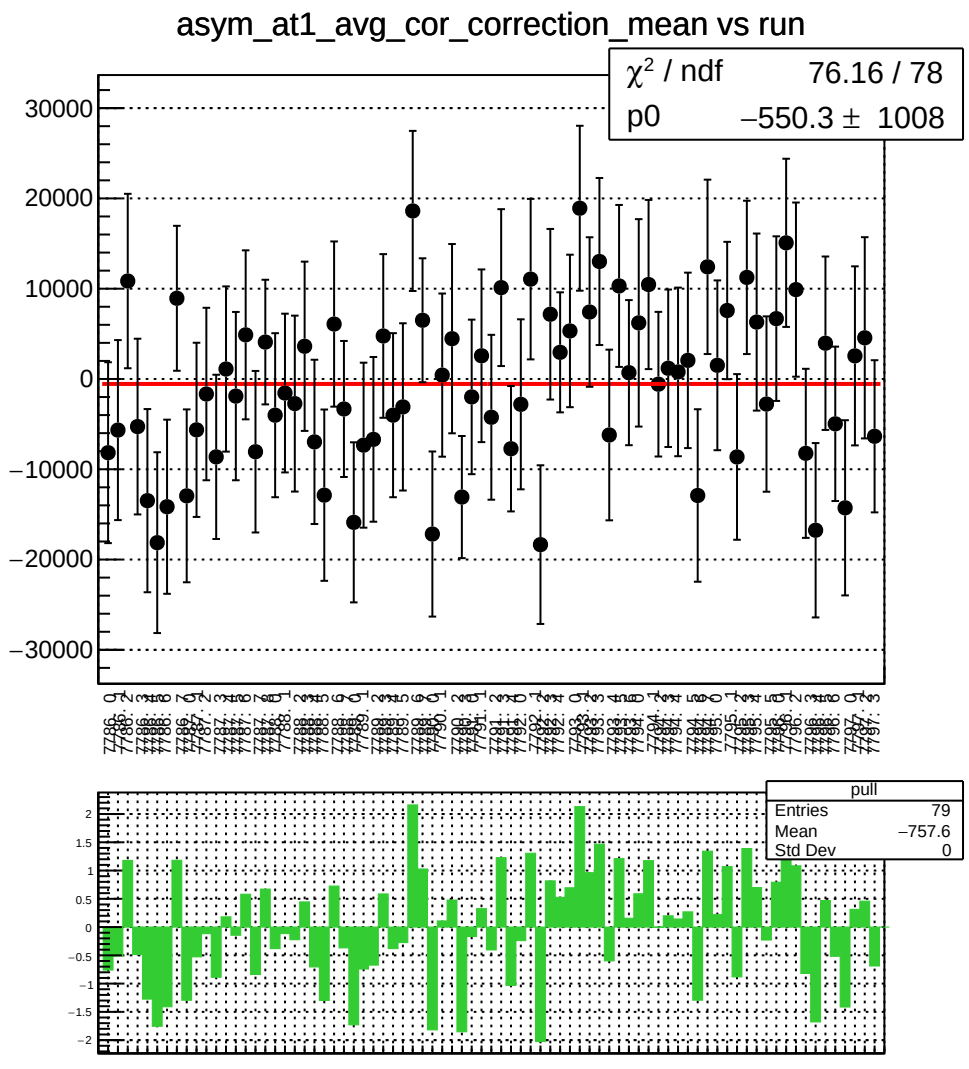

pull1D
Entries 79
Mean −0.006541
Std Dev 0.9818
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

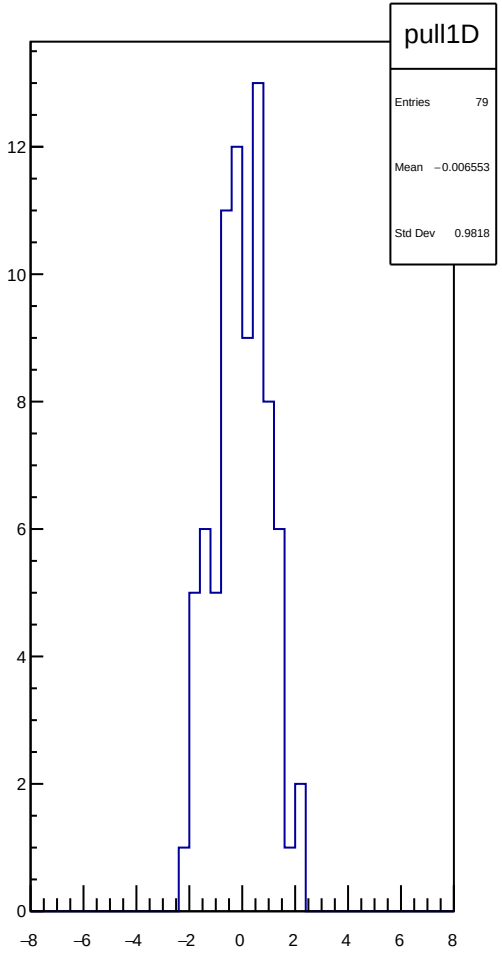

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 5898 / 78
p0 880.6 ± 0.7124
1100
1050
1000
950
900
850
800
750
700

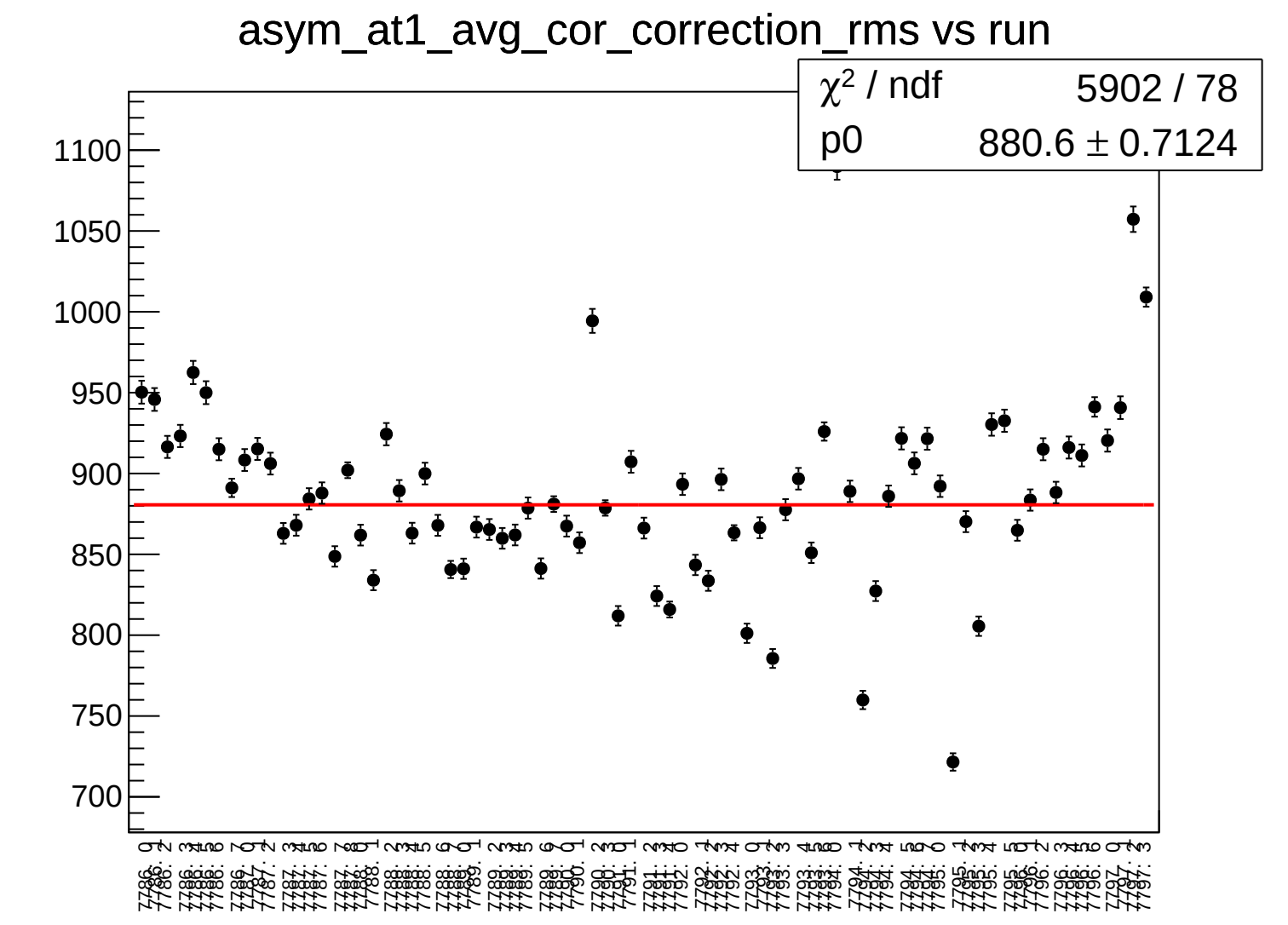

cor_asym_at1_avg_mean vs run
χ² / ndf 69.3 / 78
p0 −4719 ± 2064
pull
Entries 79
Mean −68.78
Std Dev 0

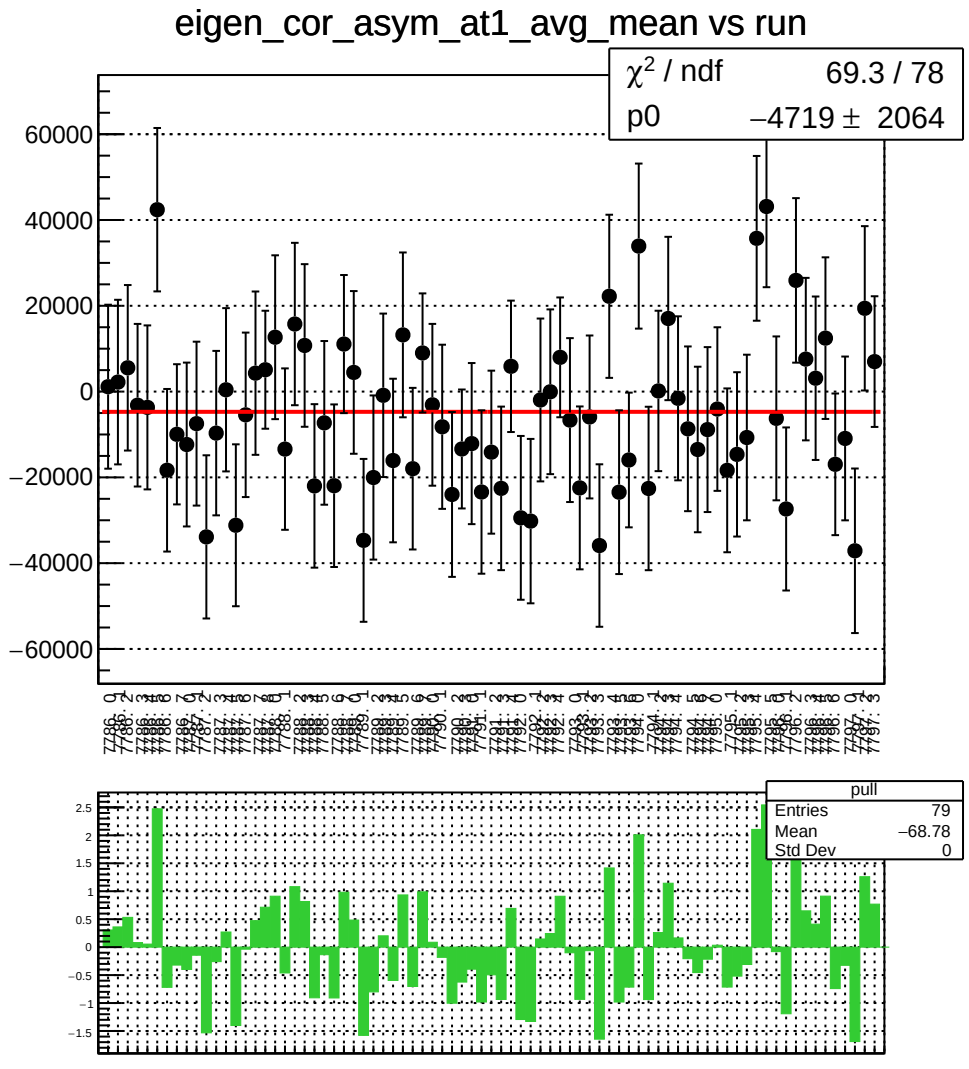

pull1D
Entries 79
Mean −0.01203
Std Dev 0.9365

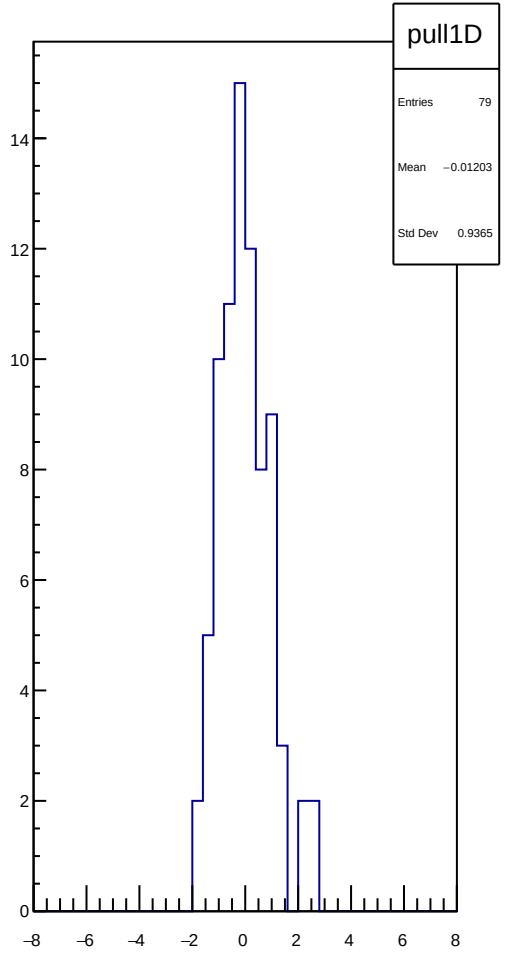

cor_asym_at1_avg_rms vs run
χ² / ndf 68.54 / 78
p0 1808 ± 1.46
1840
1820
1800
1780
1760

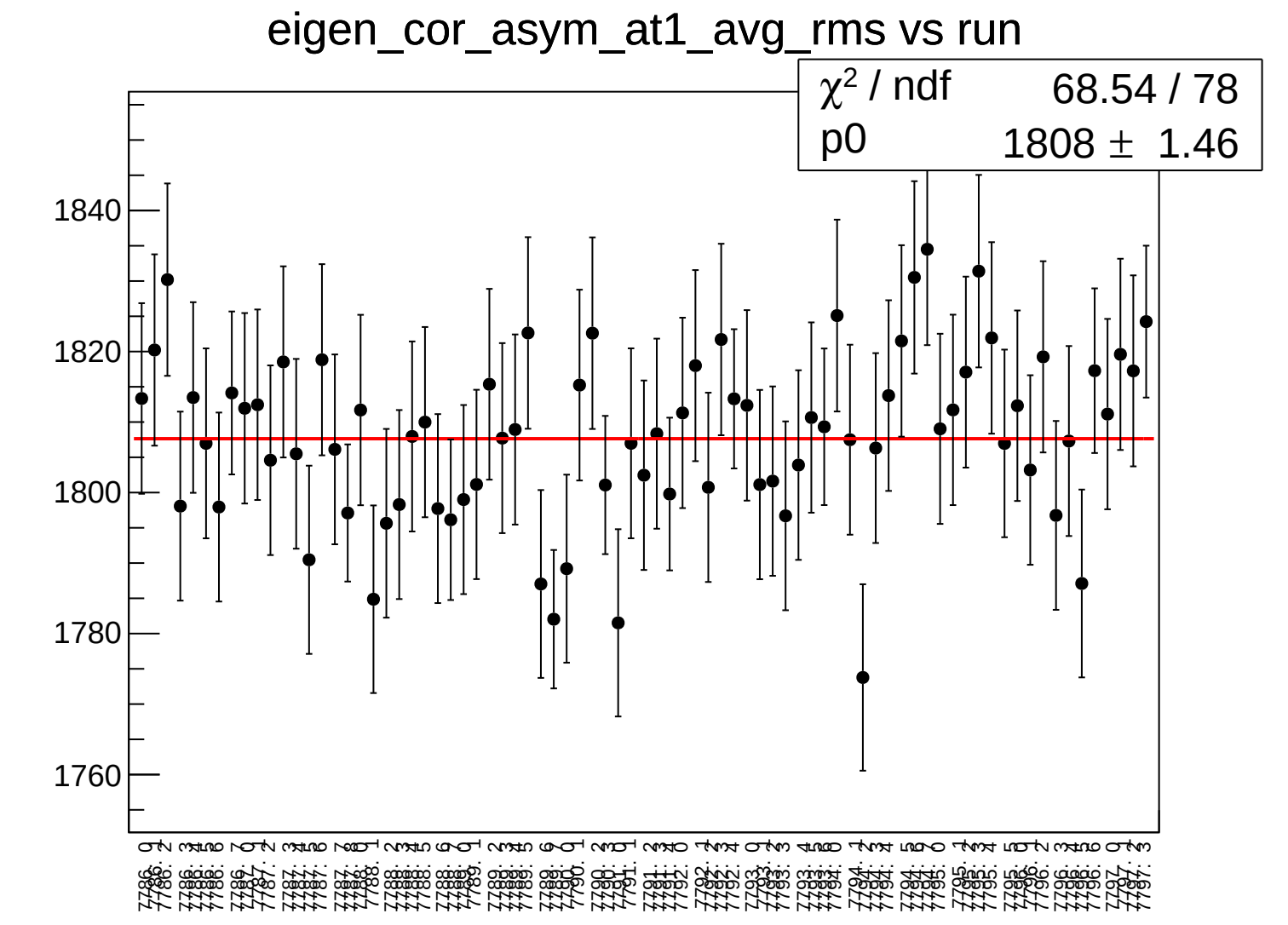

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 76.16 / 78
p0 −550.3 ± 1008
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −757.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

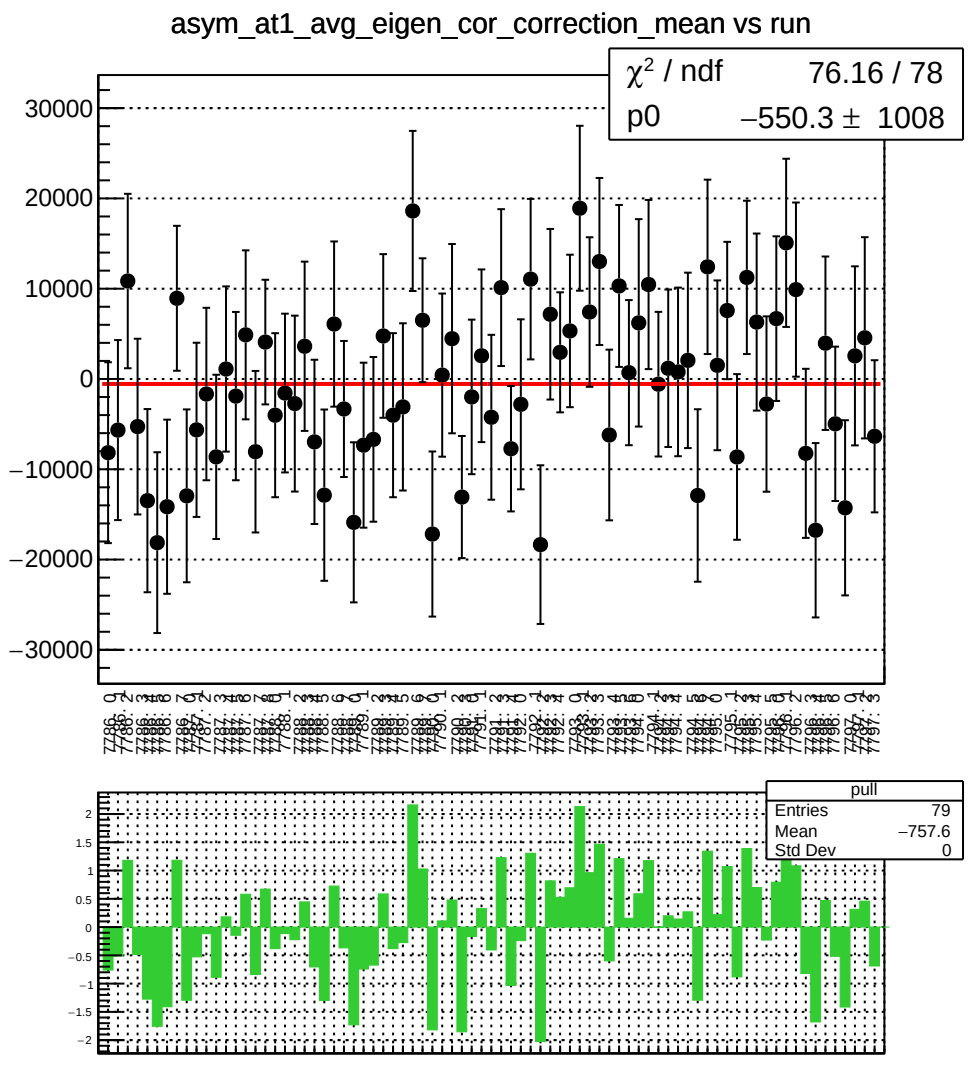

pull1D
Entries 79
Mean −0.006553
Std Dev 0.9818
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

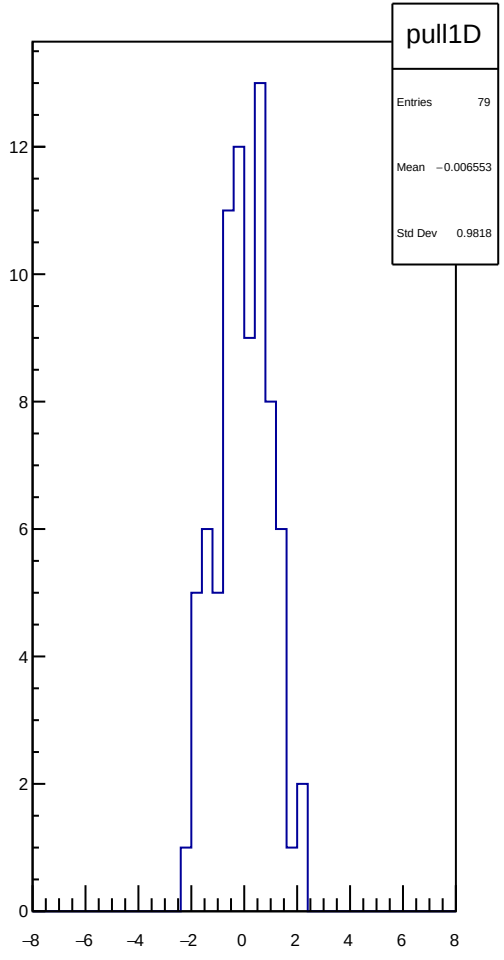

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 5902 / 78
p0 880.6 ± 0.7124
1100
1050
1000
950
900
850
800
750
700

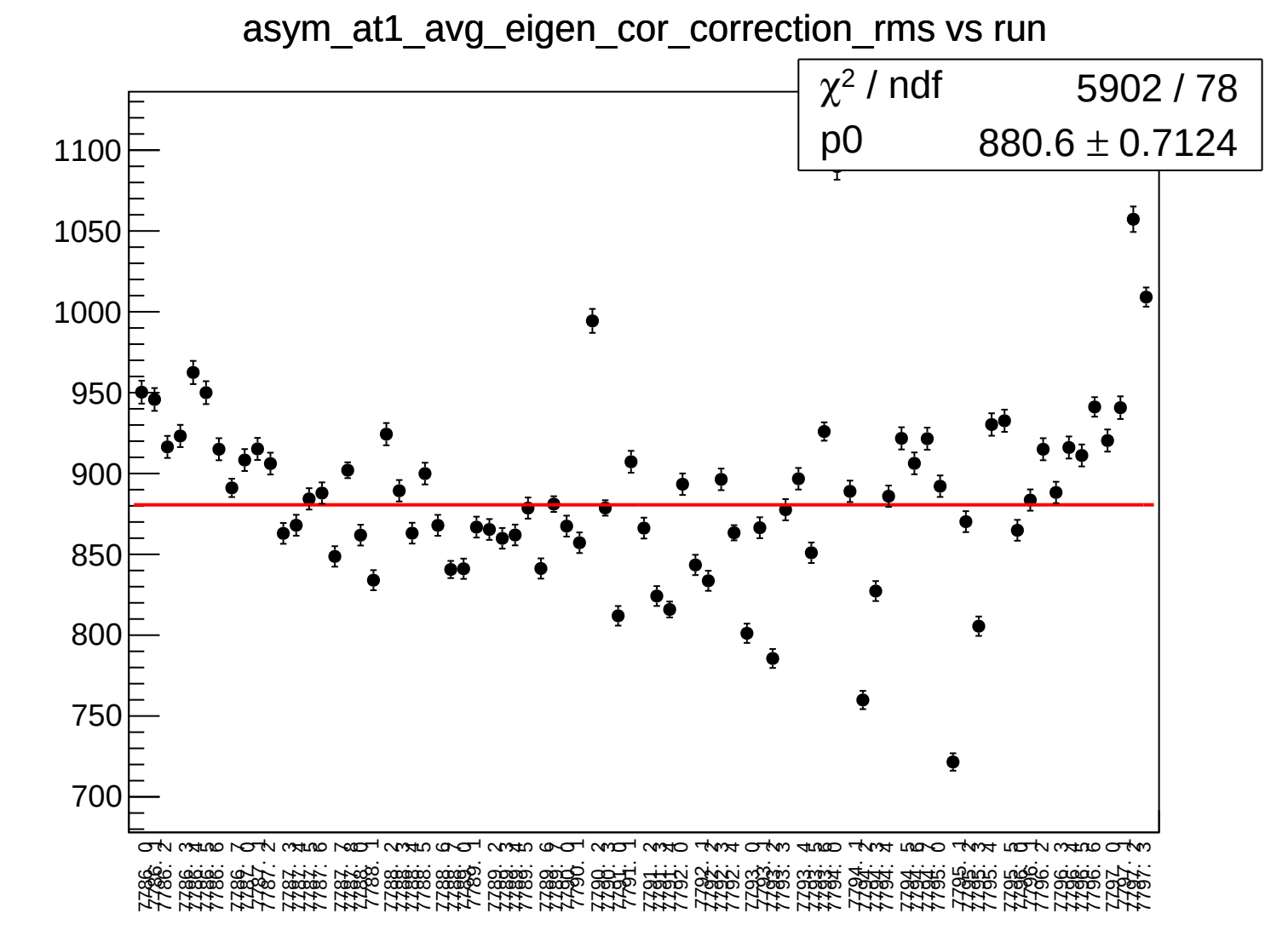

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 69.3 / 78
p0 −4719 ± 2064
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −68.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

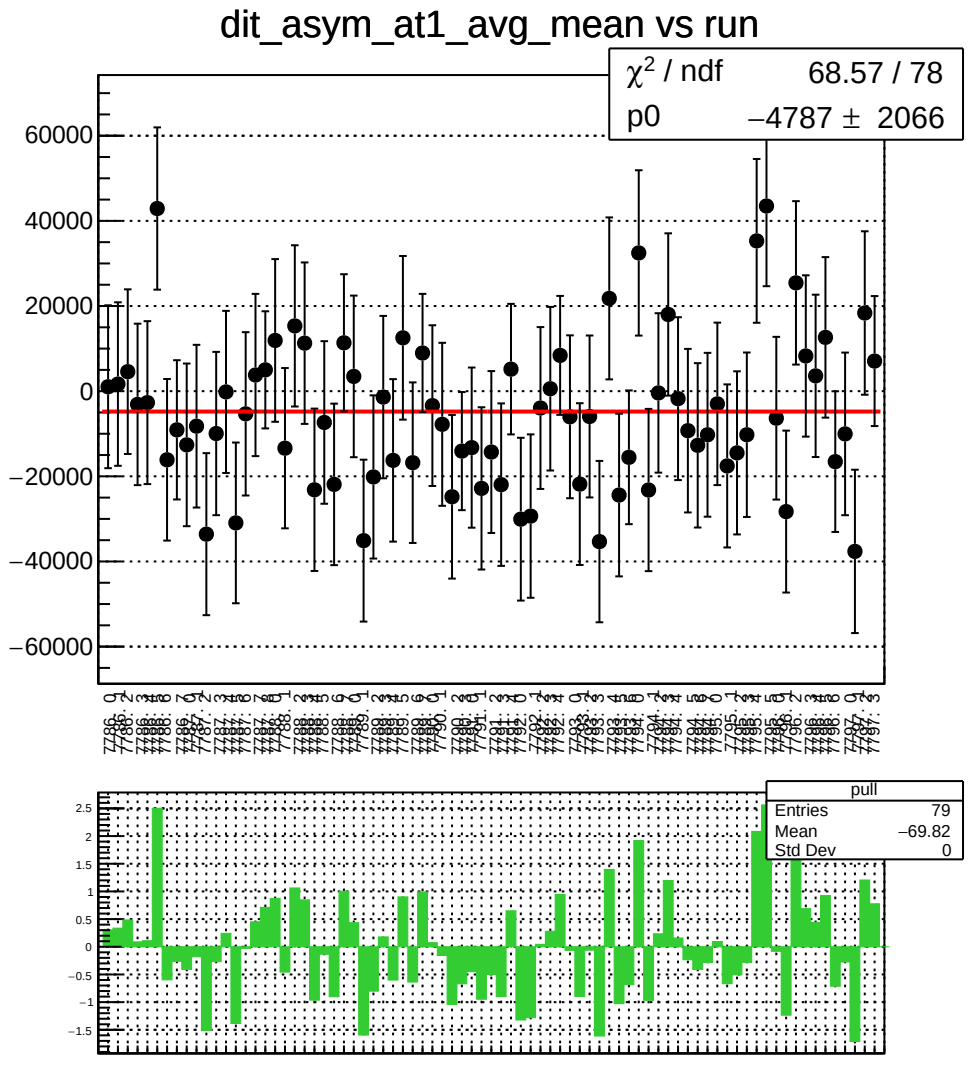

pull1D
Entries 79
Mean −0.01203
Std Dev 0.9365
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

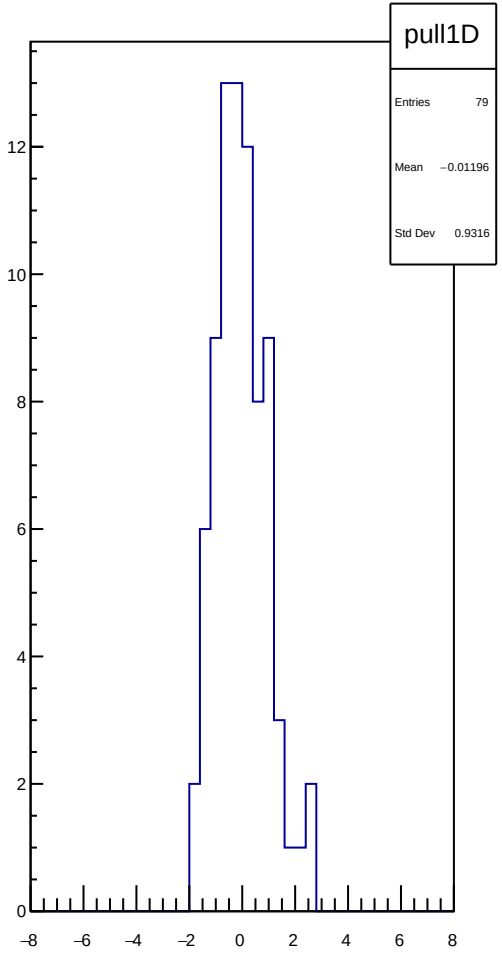

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 68.54 / 78
p0 1808 ± 1.46
1840
1820
1800
1780
1760

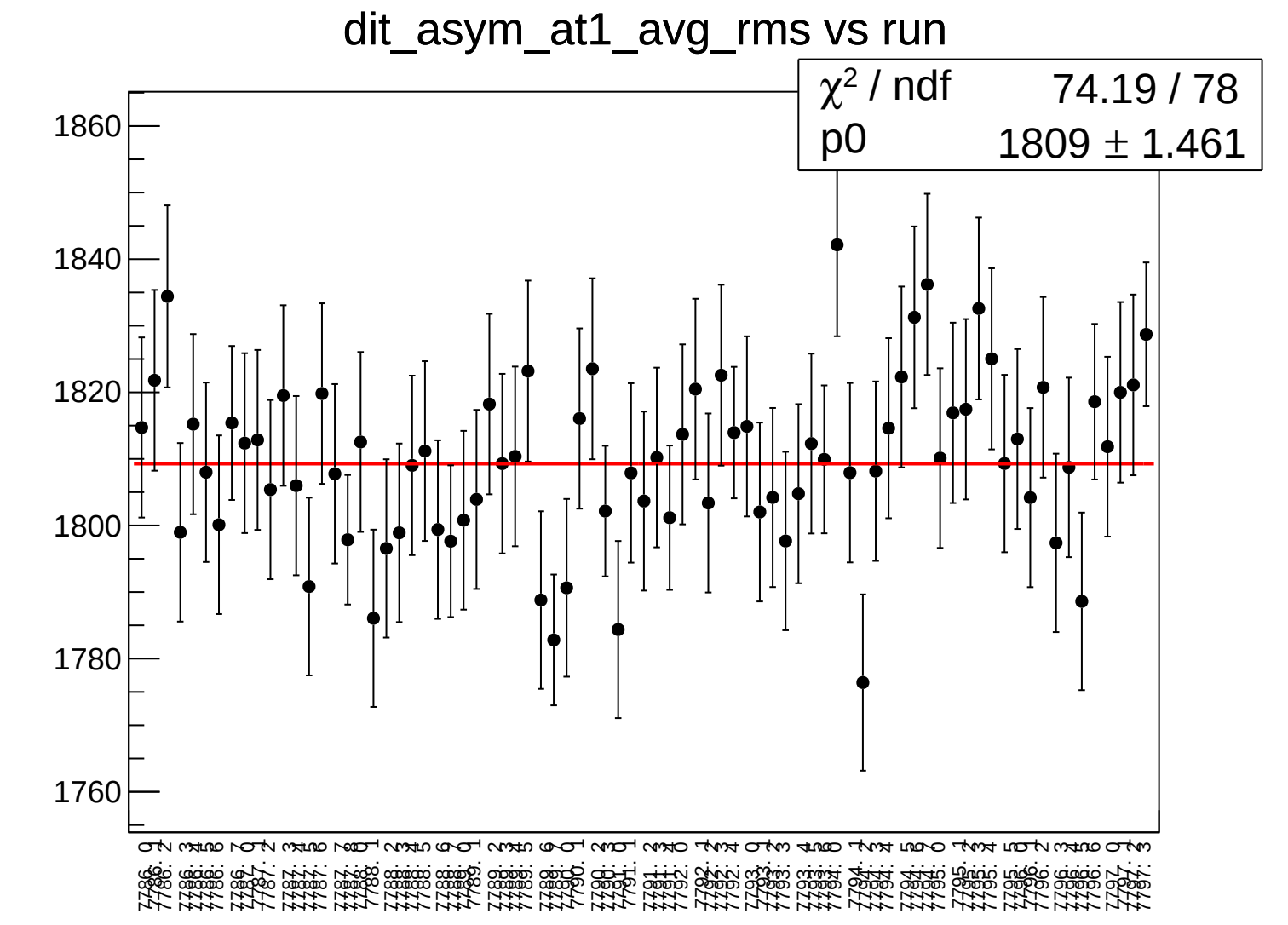

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.16 / 78
p0 −550.3 ± 1008
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −757.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

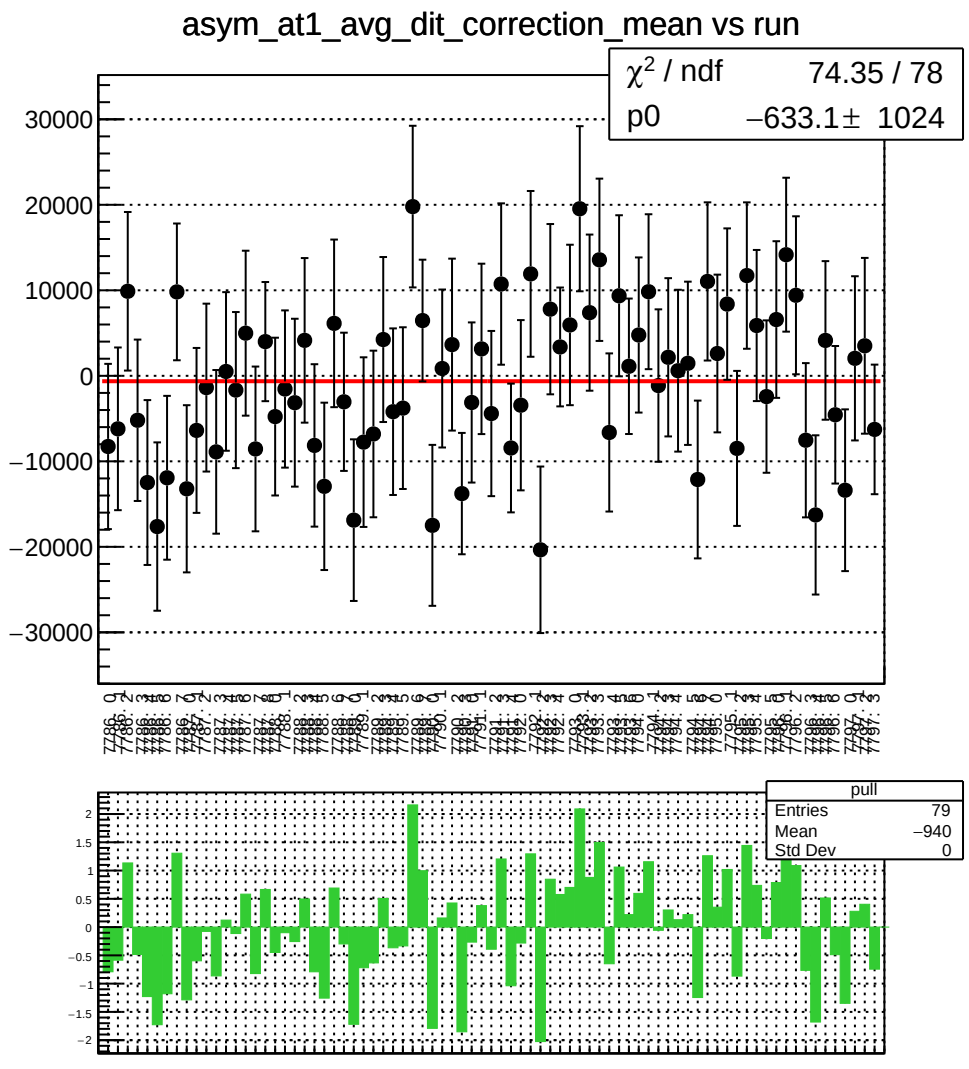

pull1D
Entries 79
Mean −0.006553
Std Dev 0.9818
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

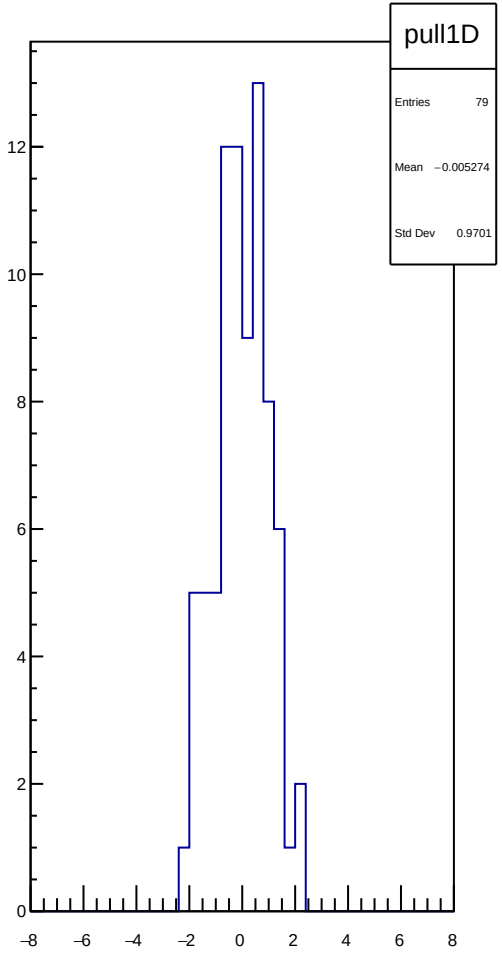

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 5902 / 78
p0 880.6 ± 0.7124
1100
1050
1000
950
900
850
800
750
700

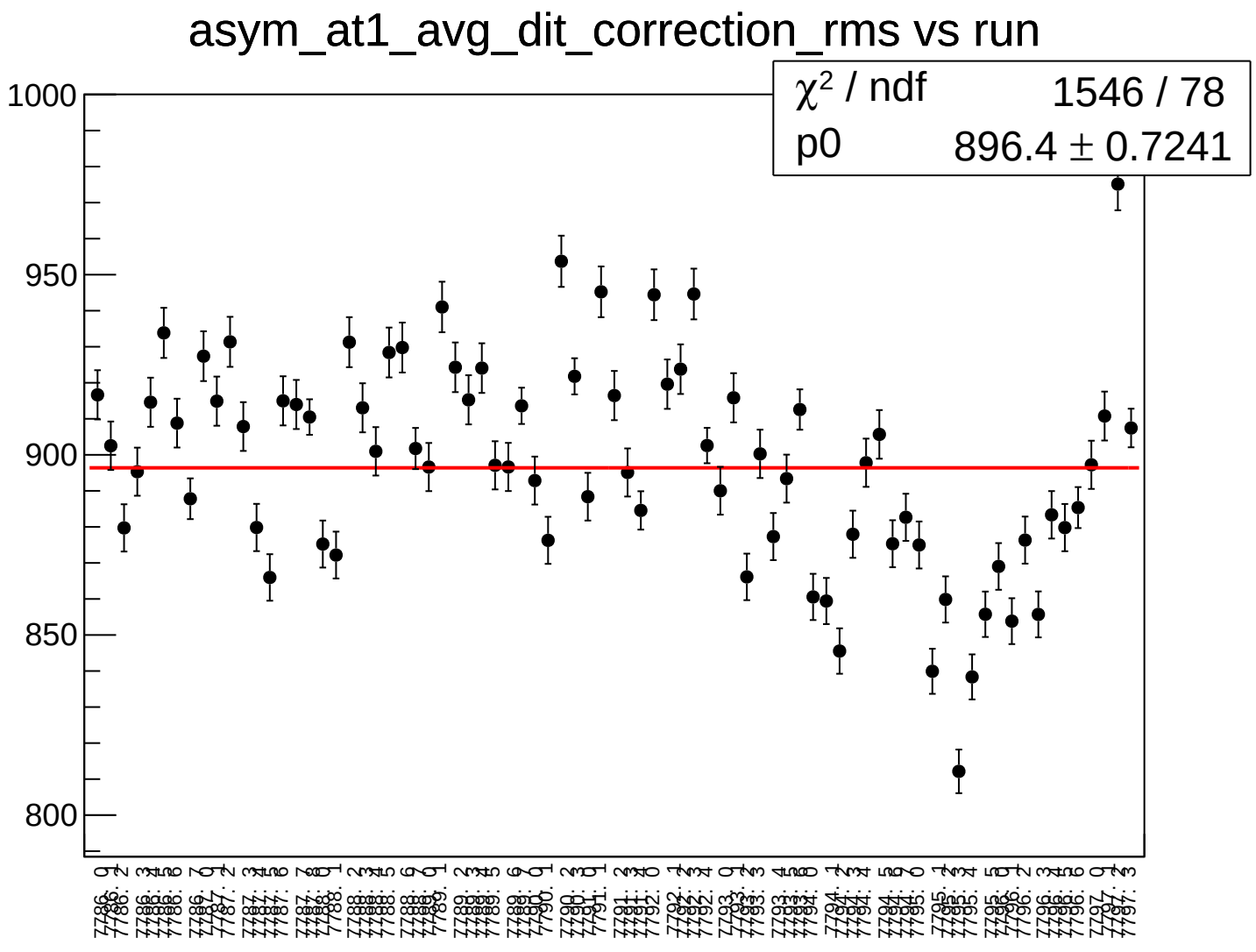

dit_asym_at1_avg_mean vs run
χ² / ndf 68.57 / 78
p0 −4787 ± 2066
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −69.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

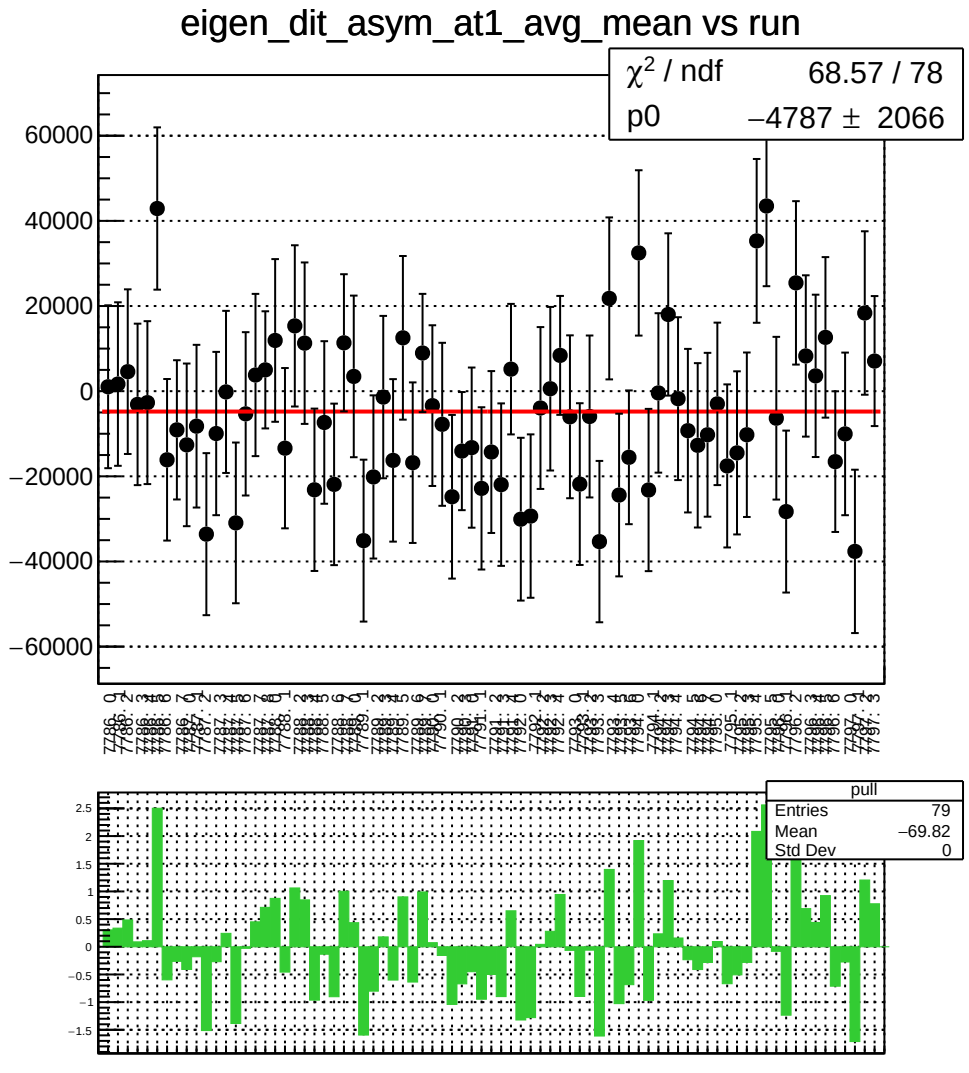

pull1D
Entries 79
Mean −0.01196
Std Dev 0.9316
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

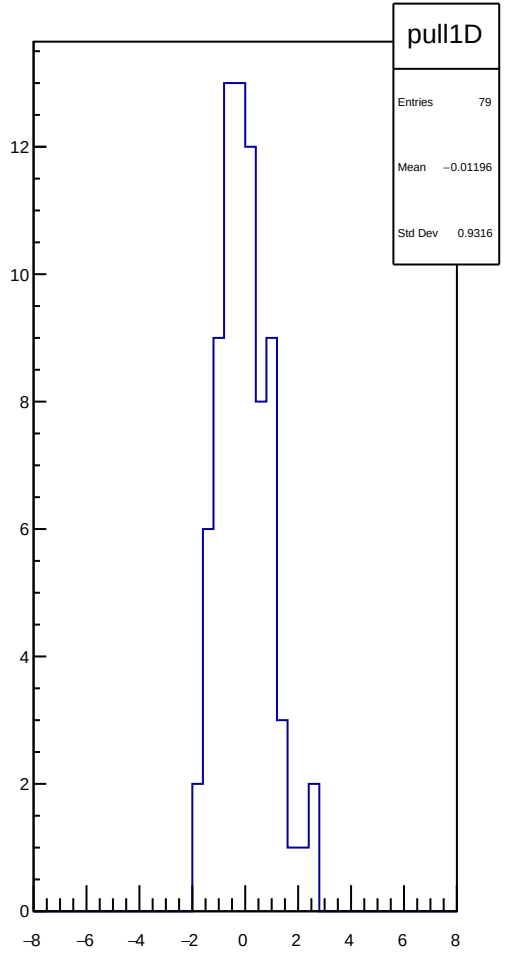

dit_asym_at1_avg_rms vs run
χ² / ndf 74.19 / 78
p0 1809 ± 1.461
1860
1840
1820
1800
1780
1760

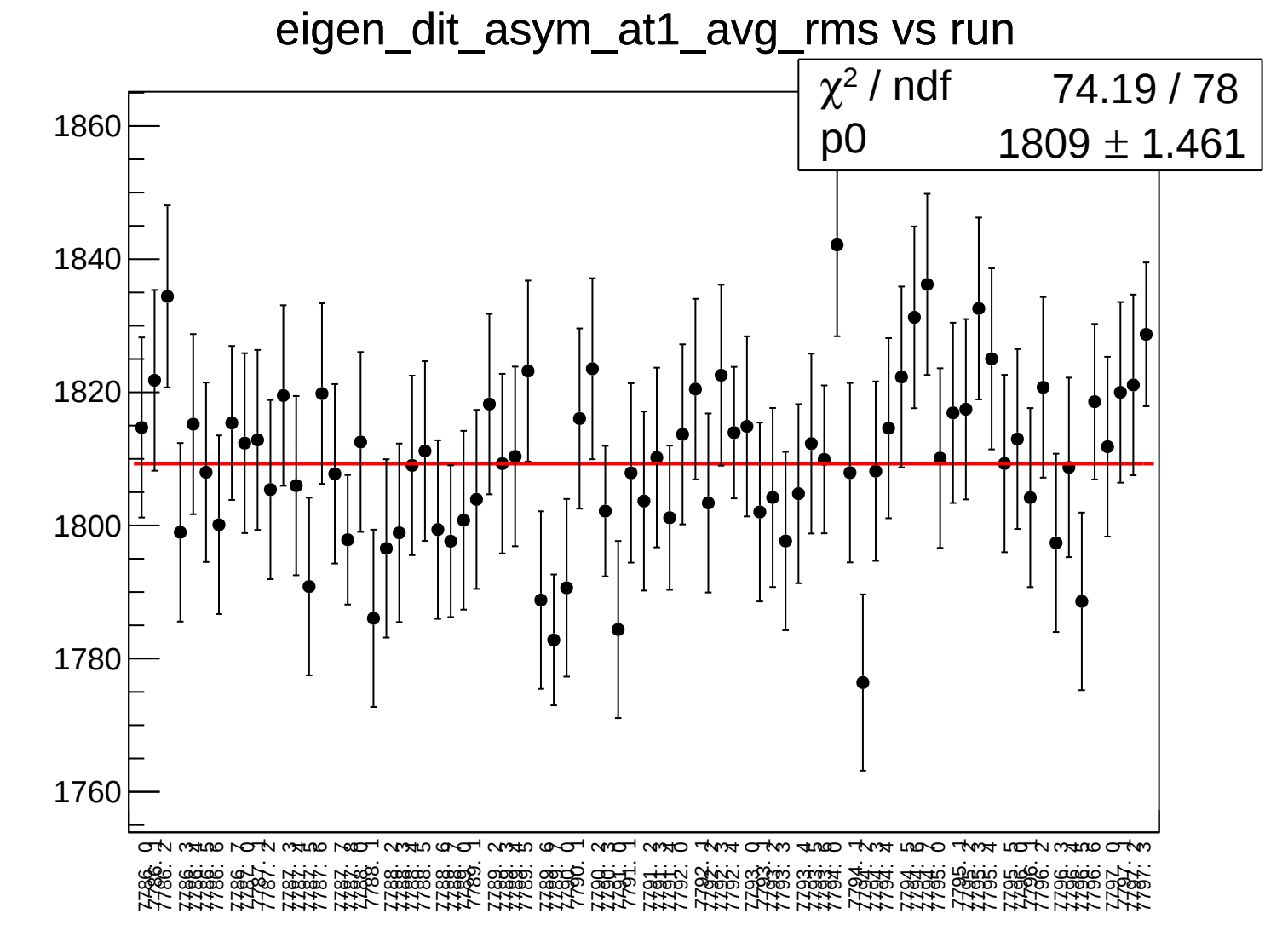

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 74.35 / 78
p0 −633.1± 1024
pull
Entries 79
Mean −940
Std Dev 0

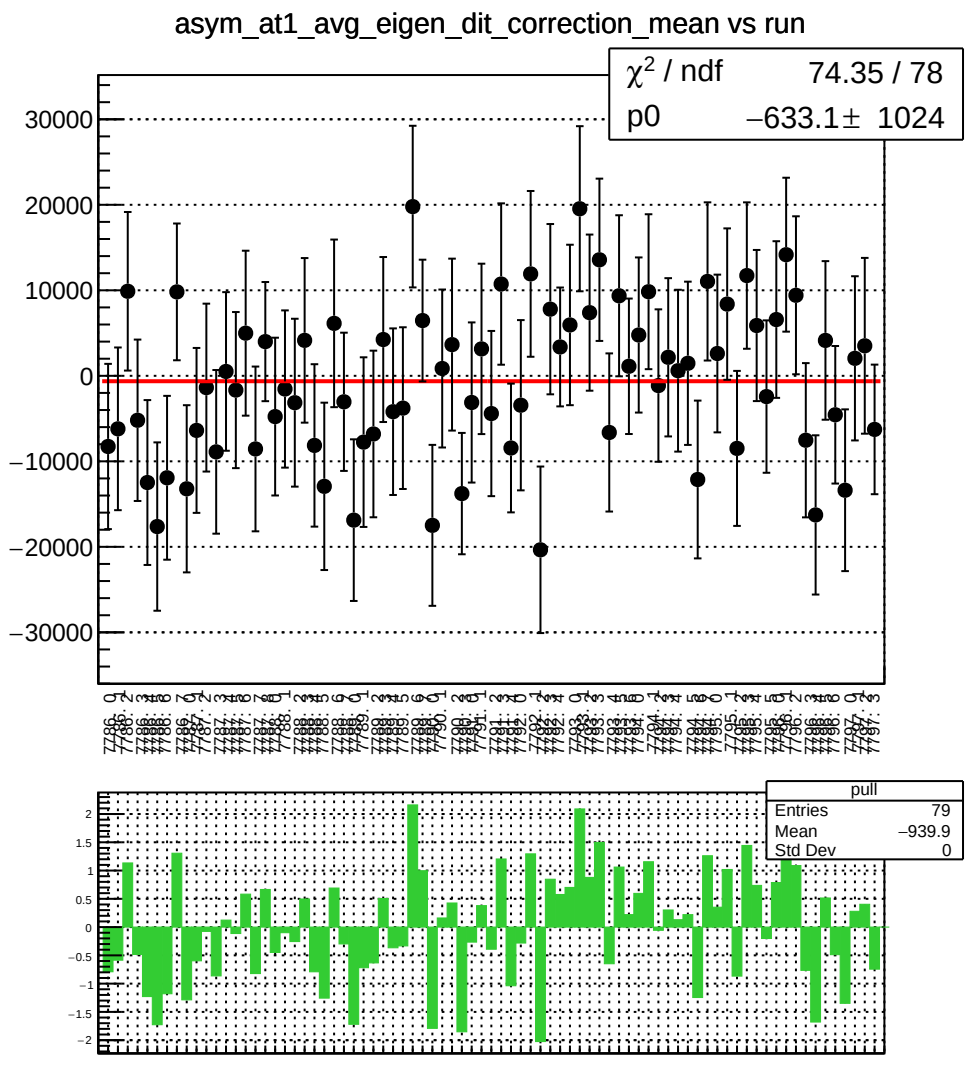

pull1D
Entries 79
Mean −0.005274
Std Dev 0.9701

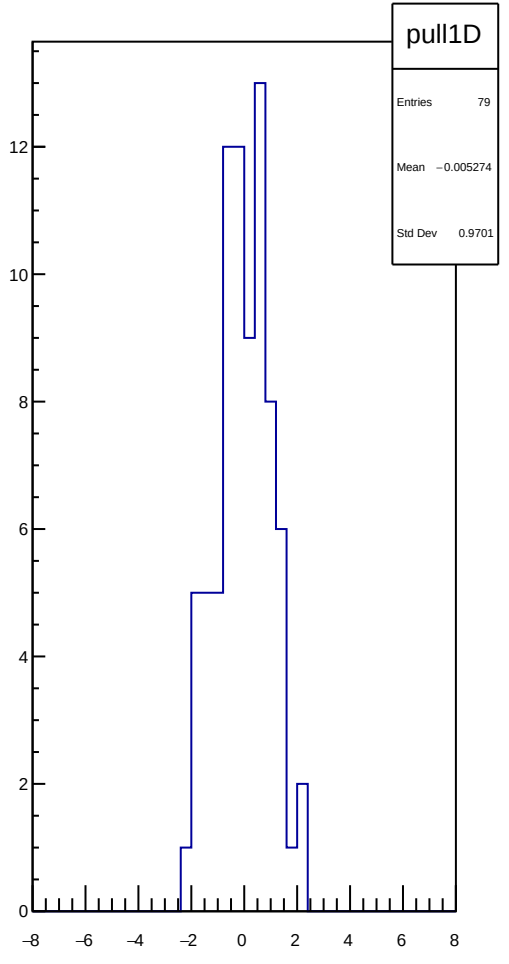

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1546 / 78
p0 896.4 ± 0.7241
1000
950
900
850
800

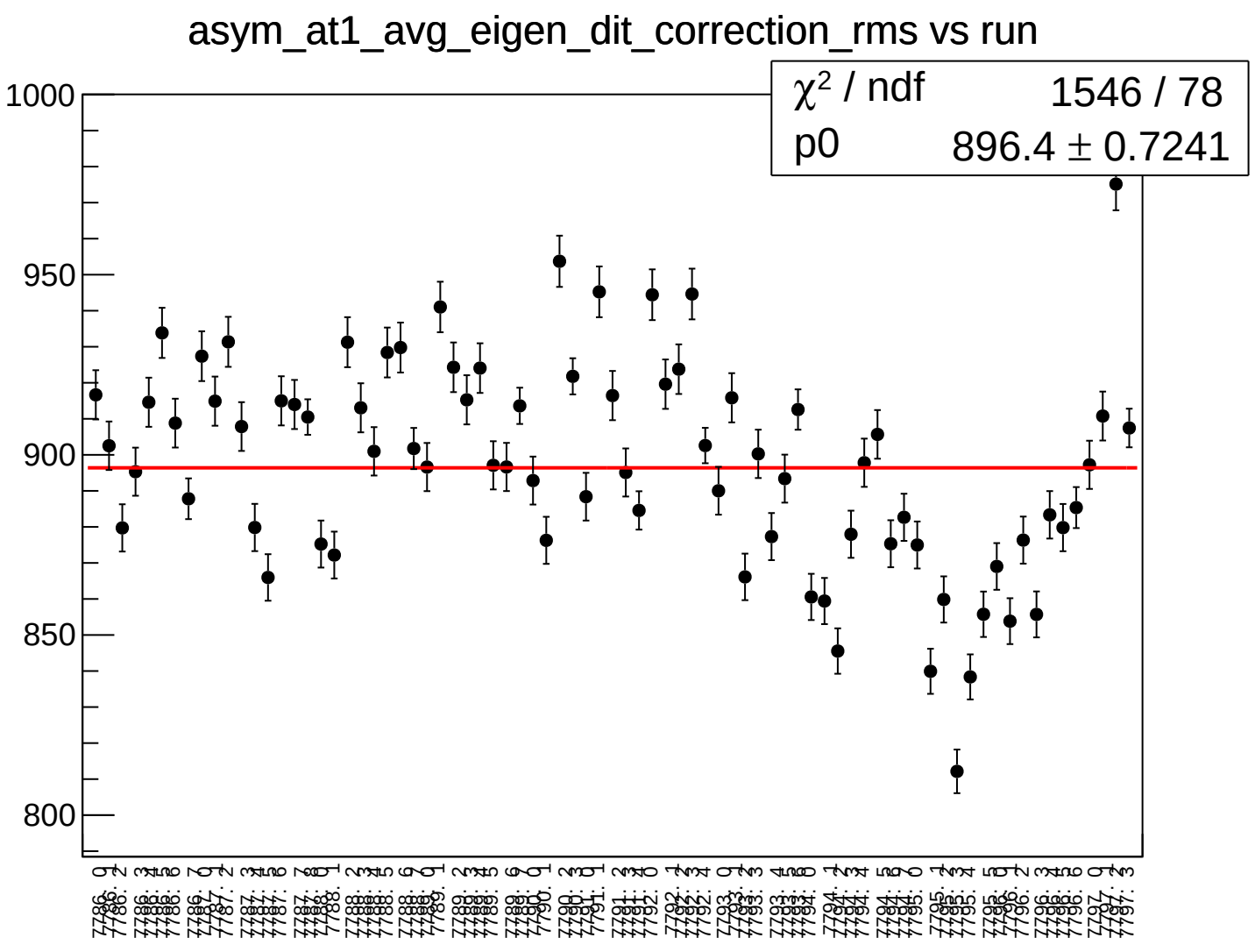

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 68.57 / 78
p0 −4787 ± 2066
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −69.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

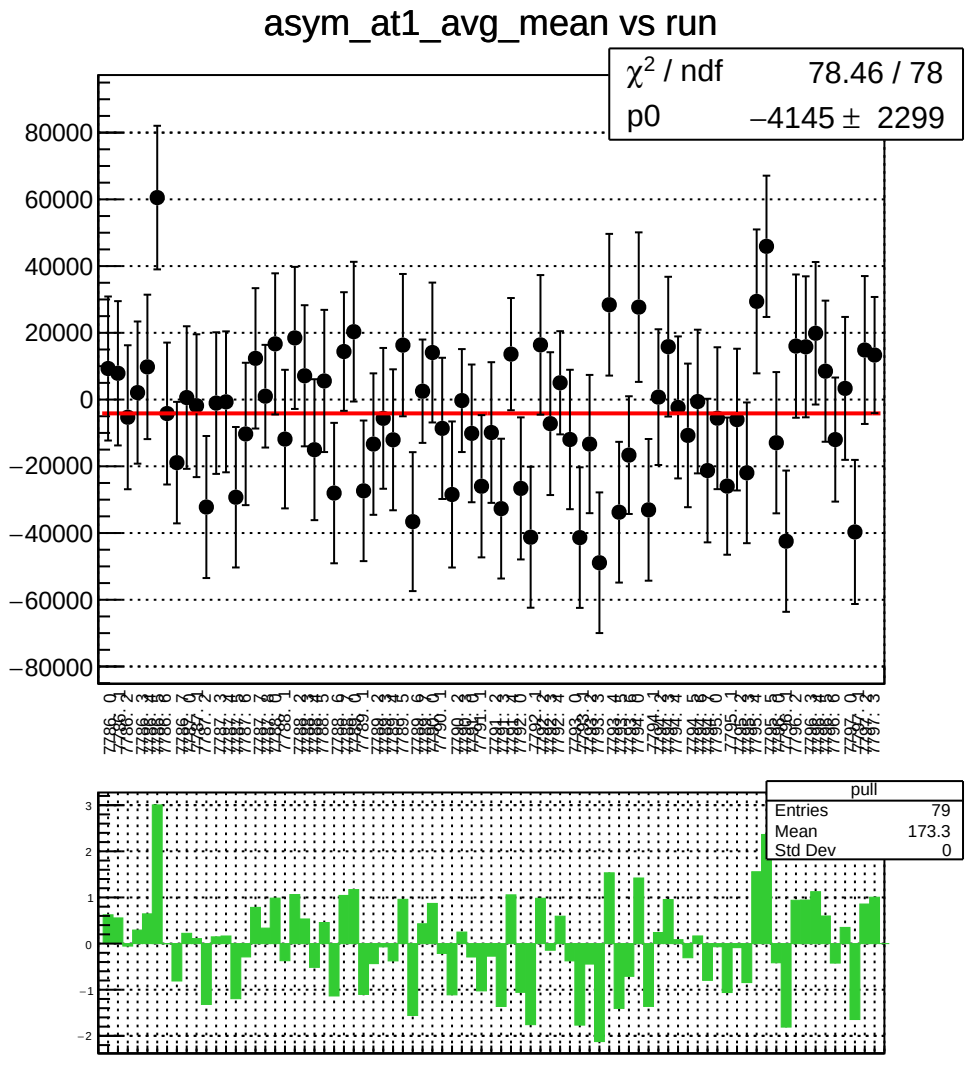

pull1D
Entries 79
Mean −0.01196
Std Dev 0.9316
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

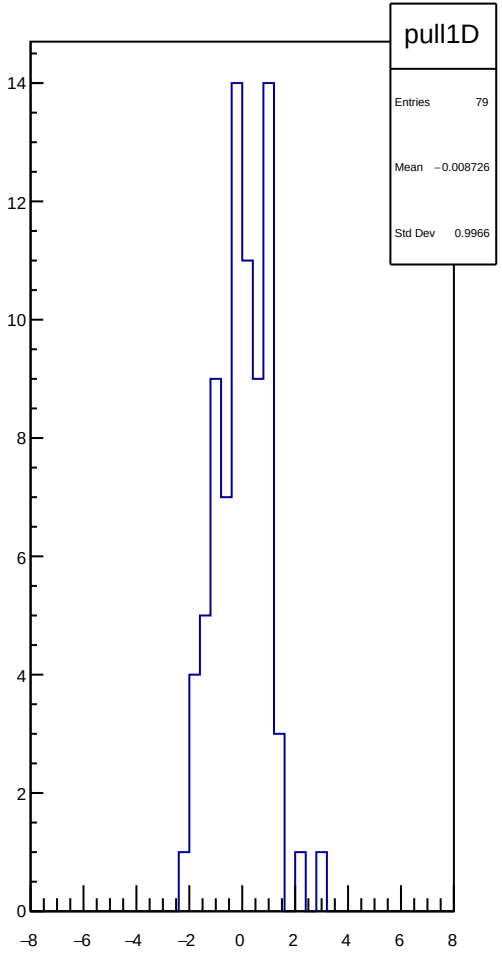

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 74.19 / 78
p0 1809 ± 1.461
1860
1840
1820
1800
1780
1760

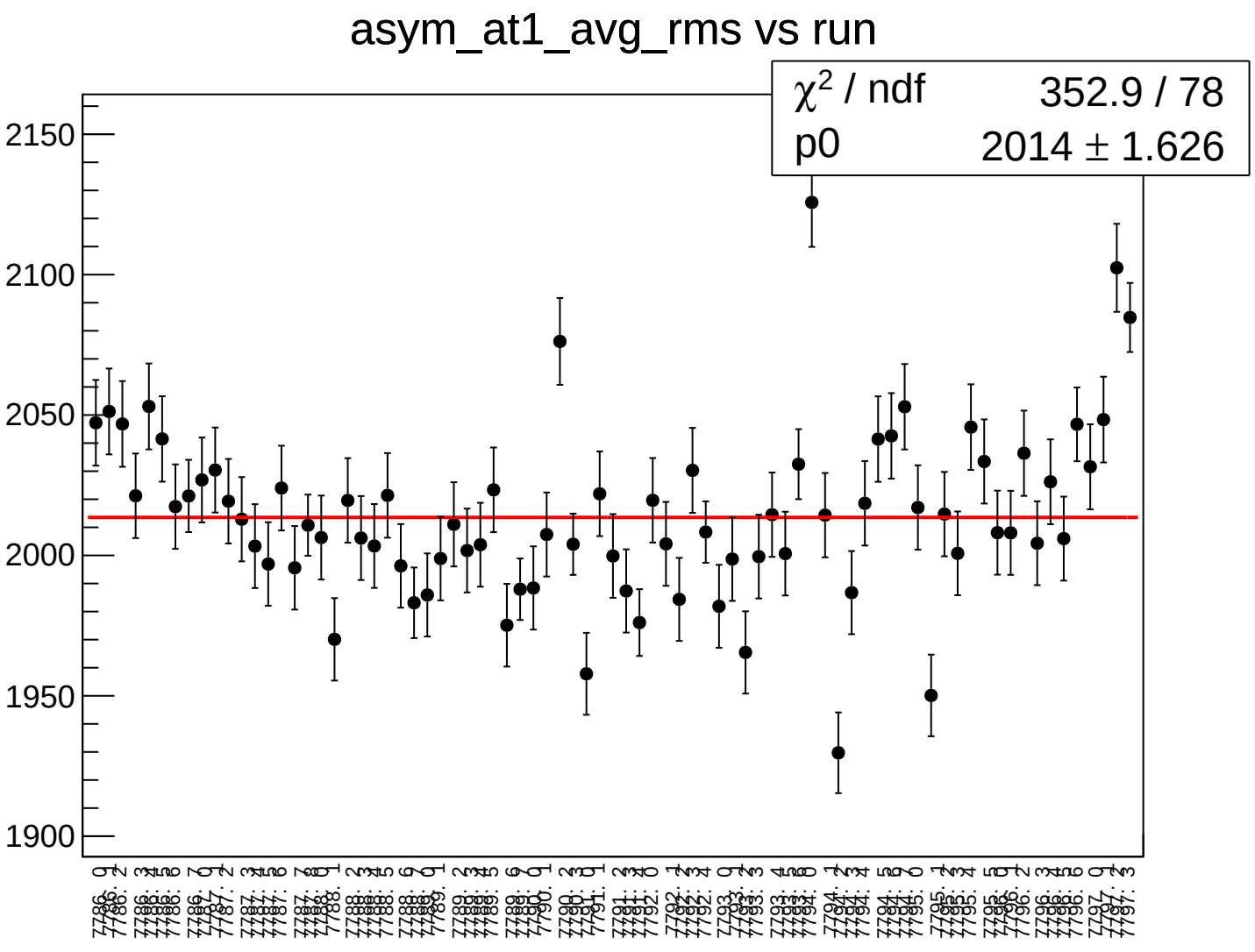

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.35 / 78
p0 −633.1± 1024
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −939.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

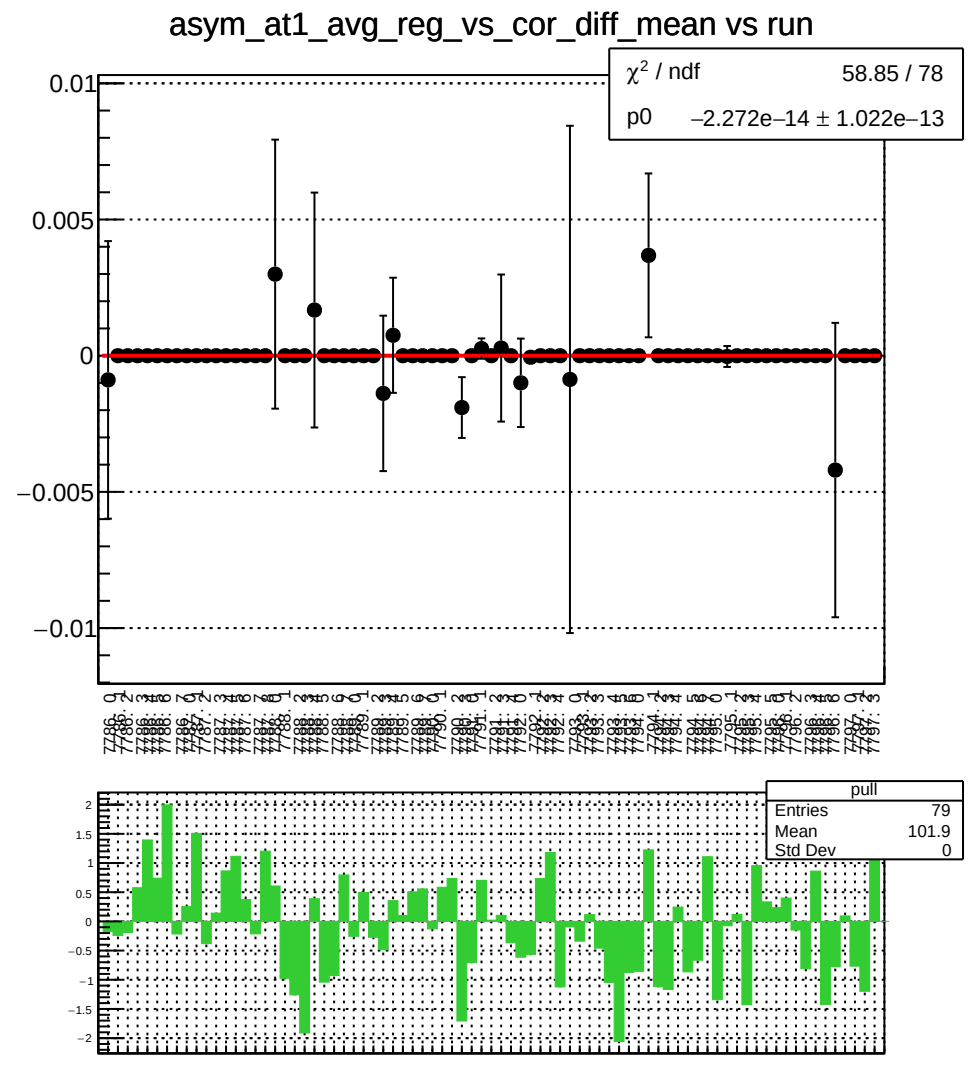

pull1D
Entries 79
Mean −0.005274
Std Dev 0.9701
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

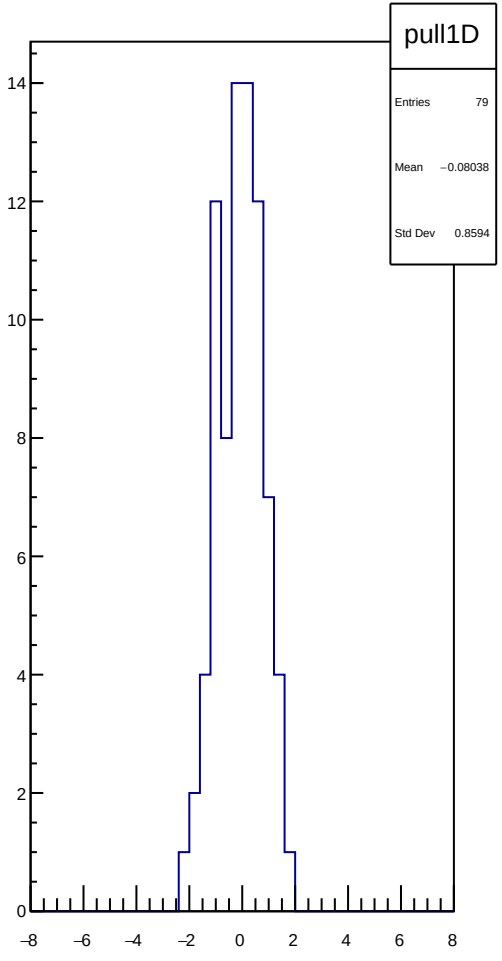

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1546 / 78
p0 896.4 ± 0.7241
1000
950
900
850
800

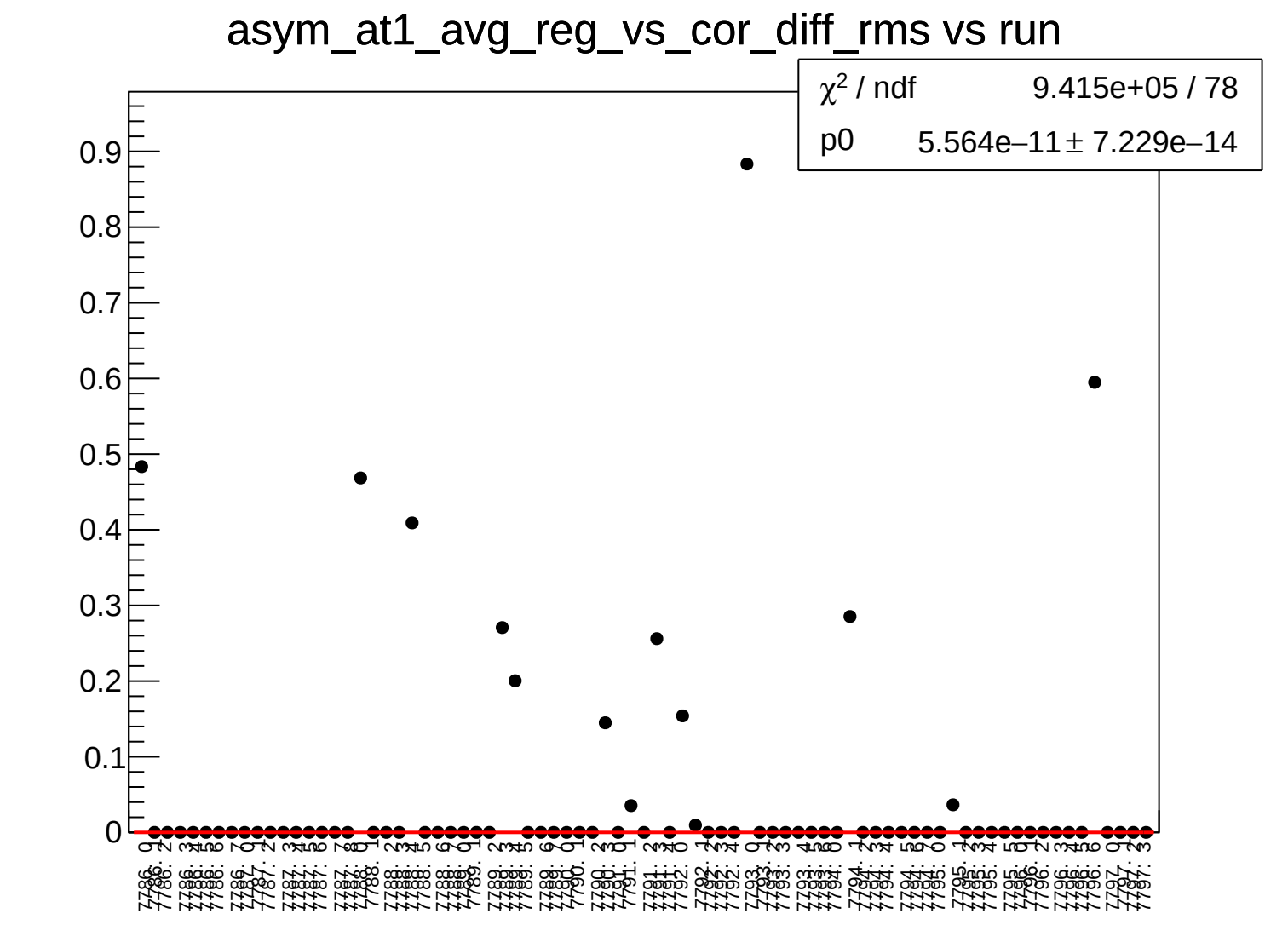

asym_at1_avg_mean vs run
χ² / ndf 78.46 / 78
p0 −4145 ± 2299
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean 173.3
Std Dev 0
3
2
1
0
−1
−2

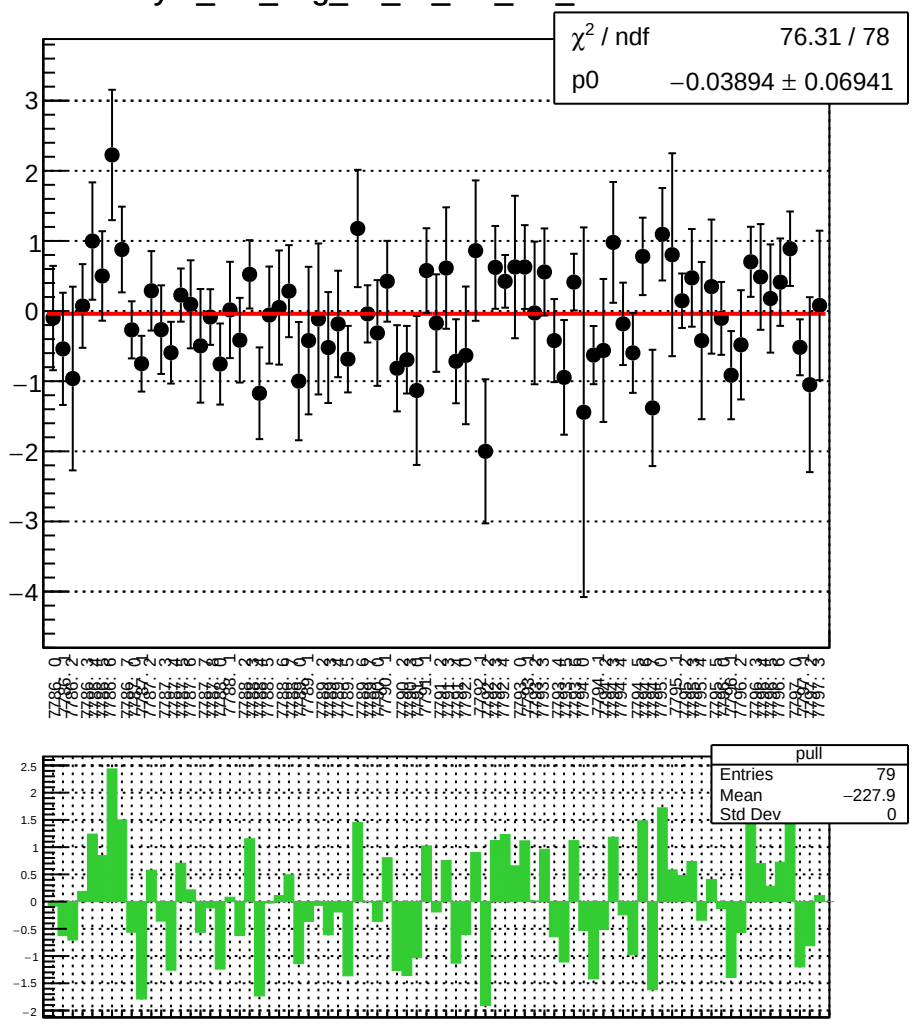

pull1D
Entries 79
Mean −0.008726
Std Dev 0.9966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

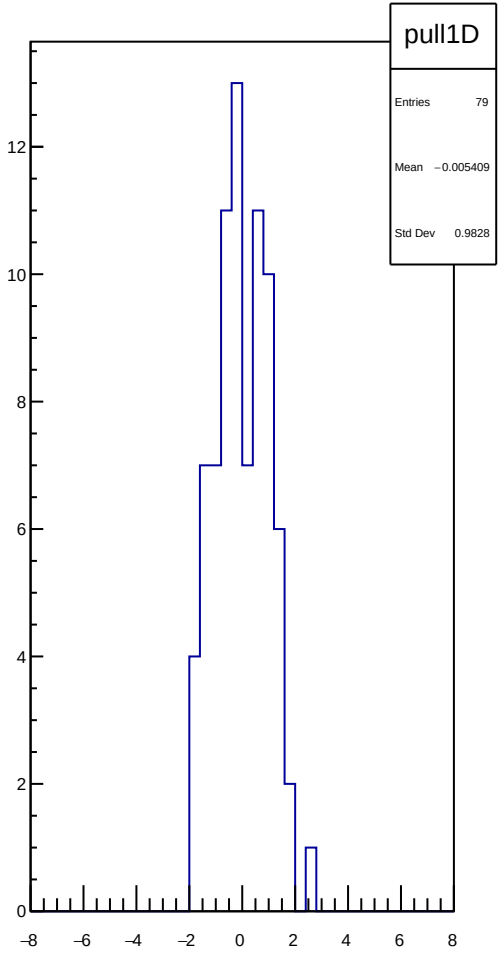

asym_at1_avg_rms vs run
χ^2 / ndf 352.9 / 78
p0 2014 ± 1.626
2150
2100
2050
2000
1950
1900

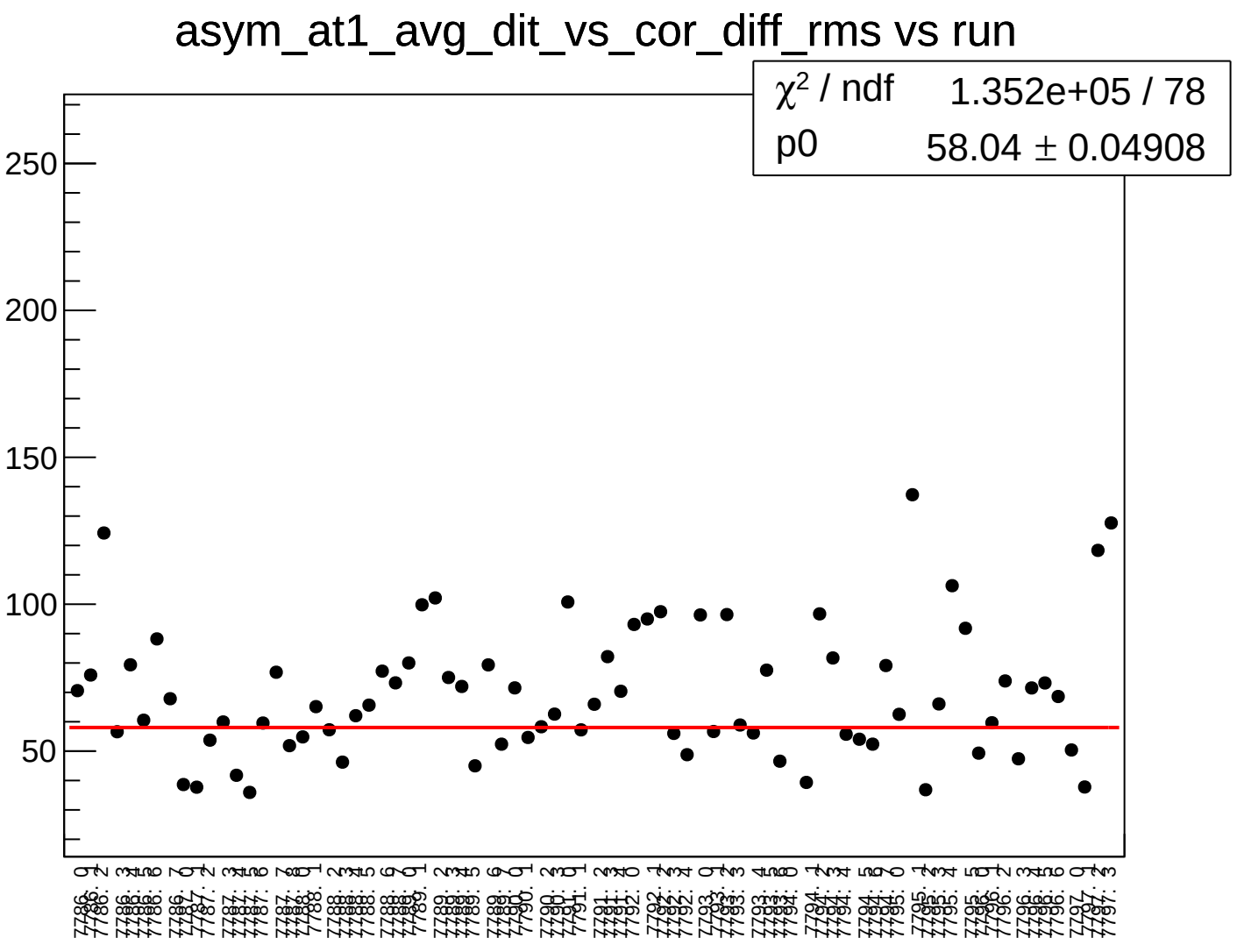

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 58.85 / 78
p0 −2.272e−14 ± 1.022e−13
pull
Entries 79
Mean 101.9
Std Dev 0

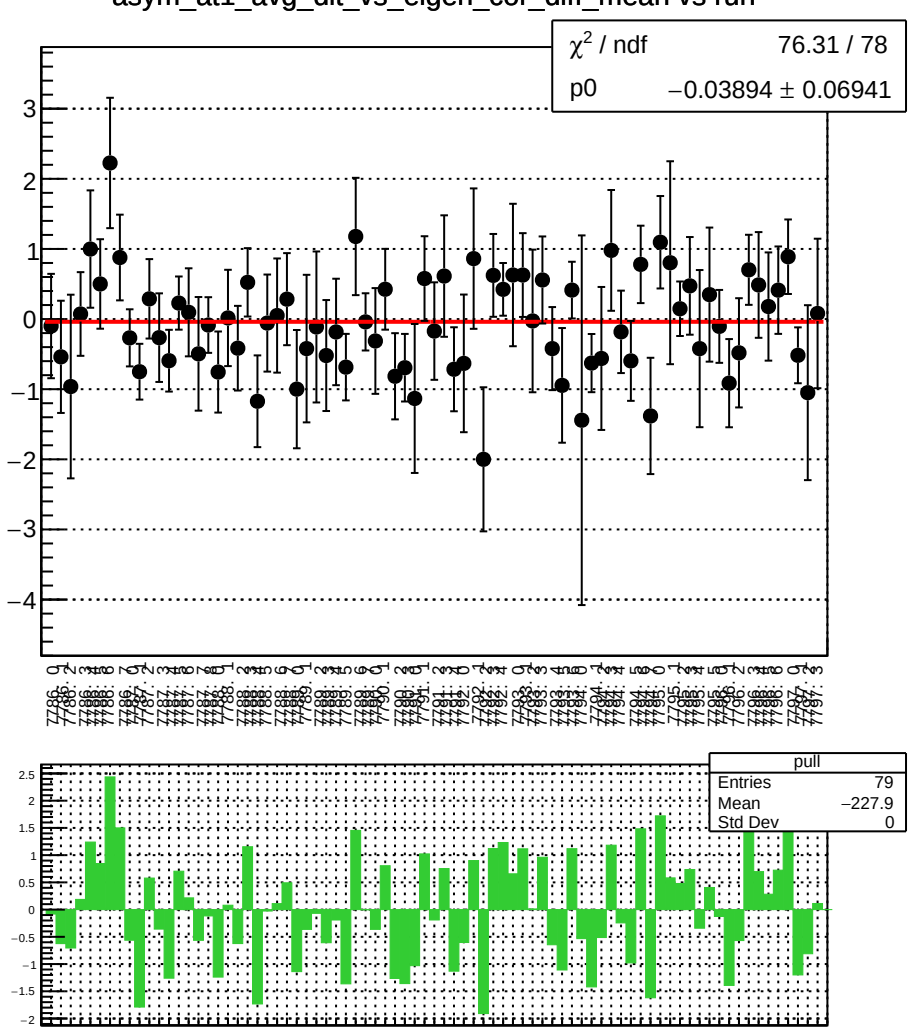

pull1D
Entries 79
Mean −0.08038
Std Dev 0.8594

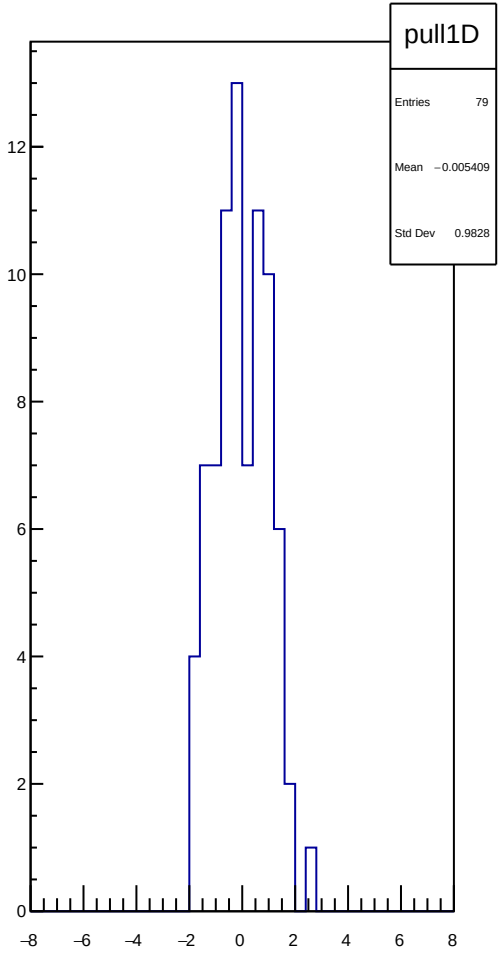

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.415e+05 / 78
p0 5.564e−11 ± 7.229e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

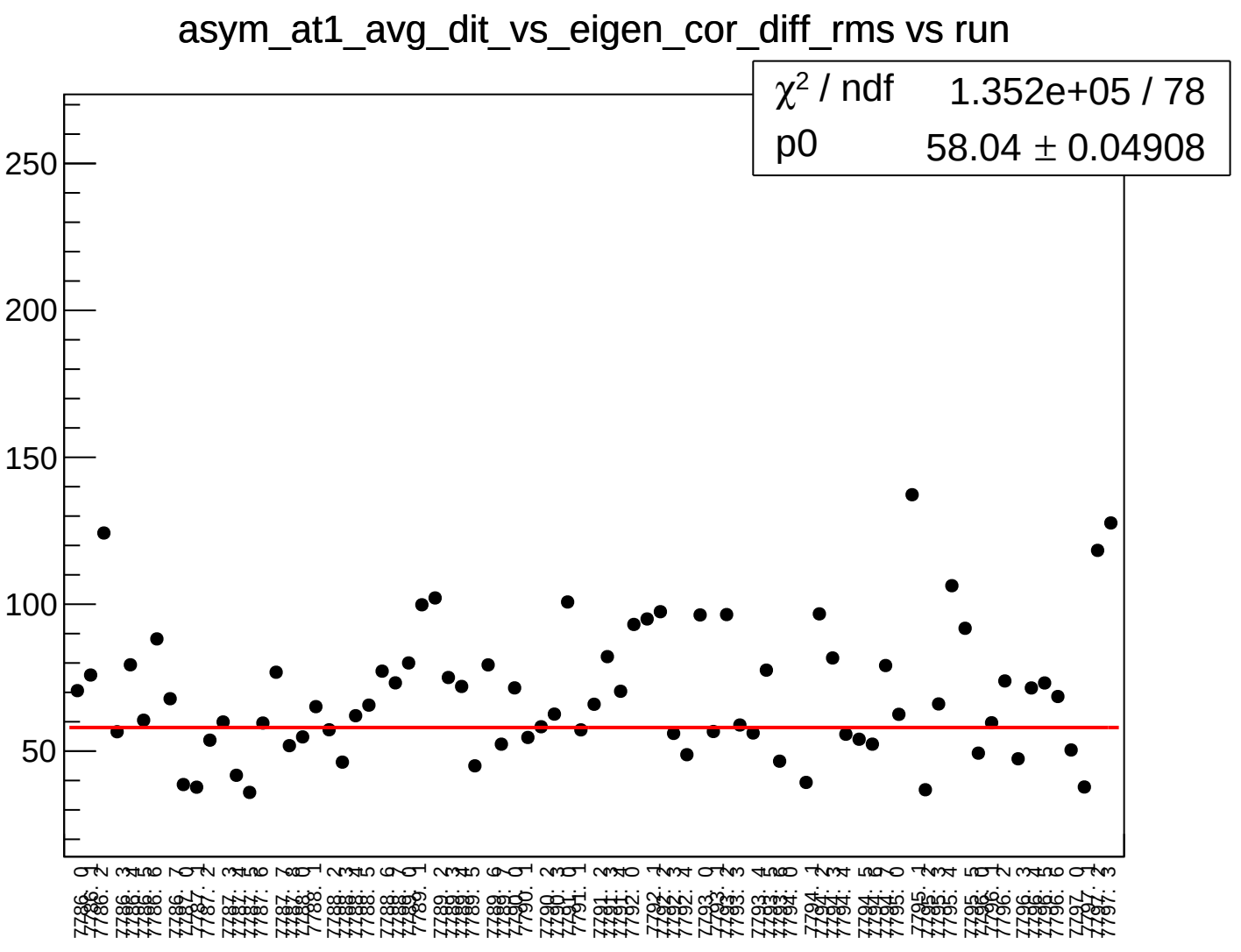

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 78
p0 −0.03894 ± 0.06941
pull
Entries 79
Mean −227.9
Std Dev 0

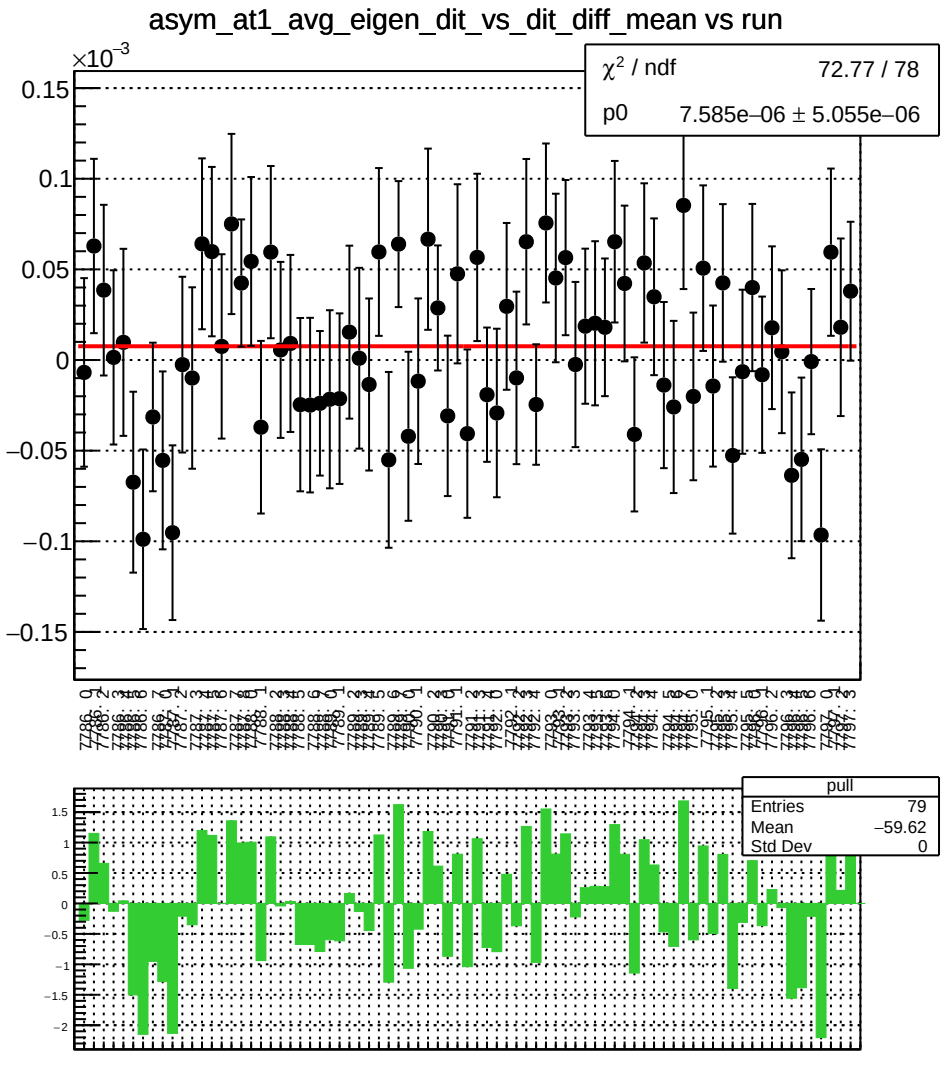

pull1D
Entries 79
Mean −0.005409
Std Dev 0.9828

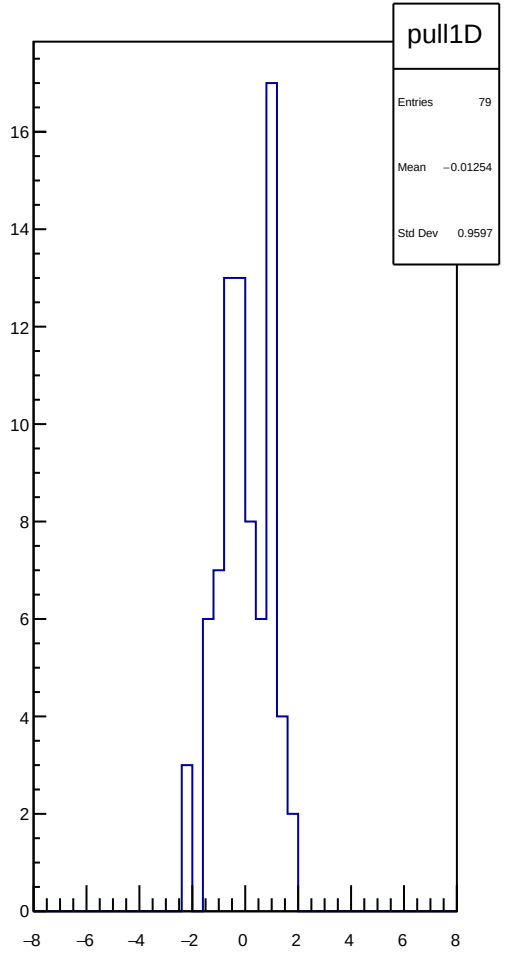

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.352e+05 / 78
p0 58.04 ± 0.04908
250
200
150
100
50

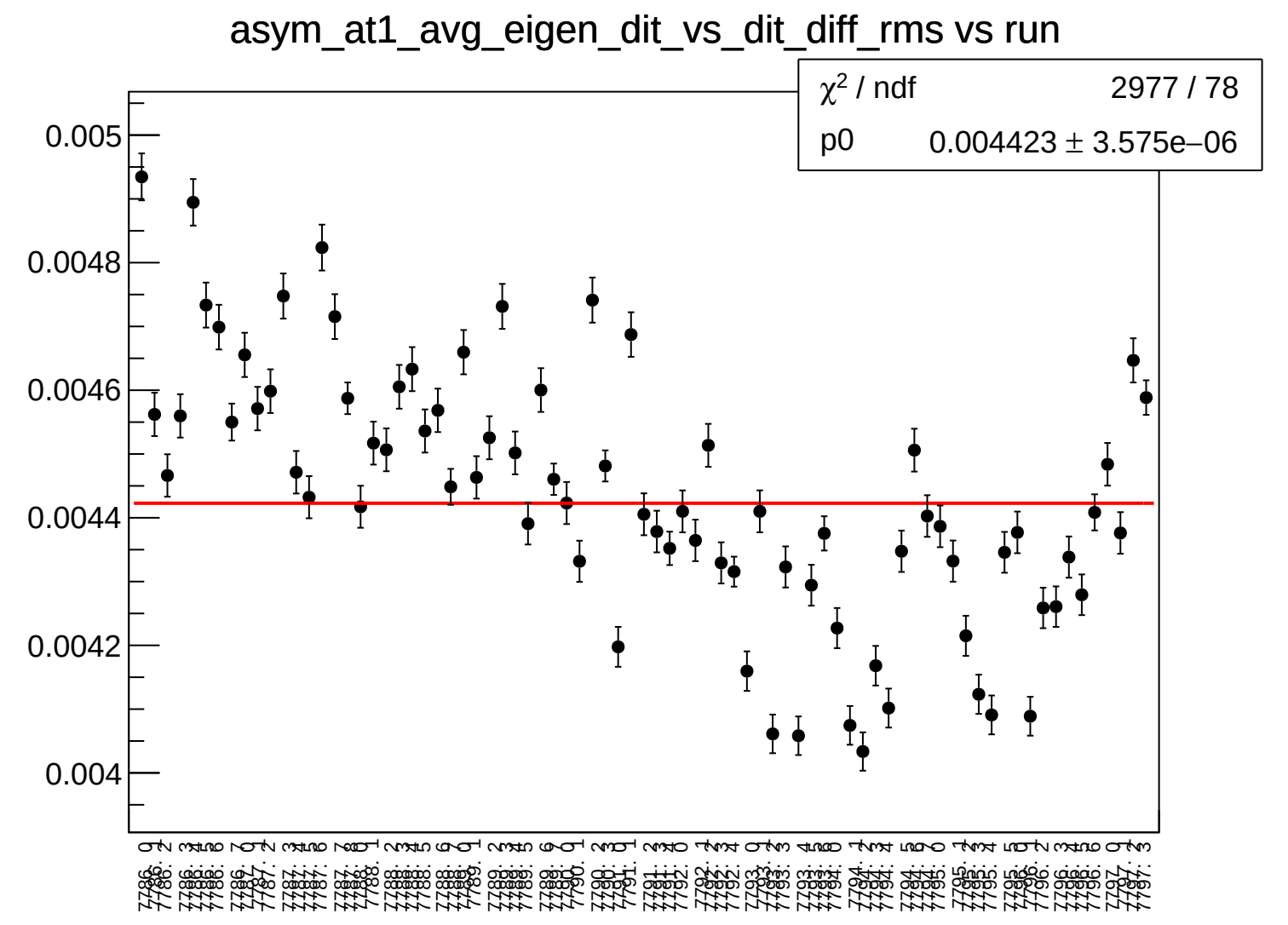

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.31 / 78
p0 −0.03894 ± 0.06941
pull
Entries 79
Mean −227.9
Std Dev 0

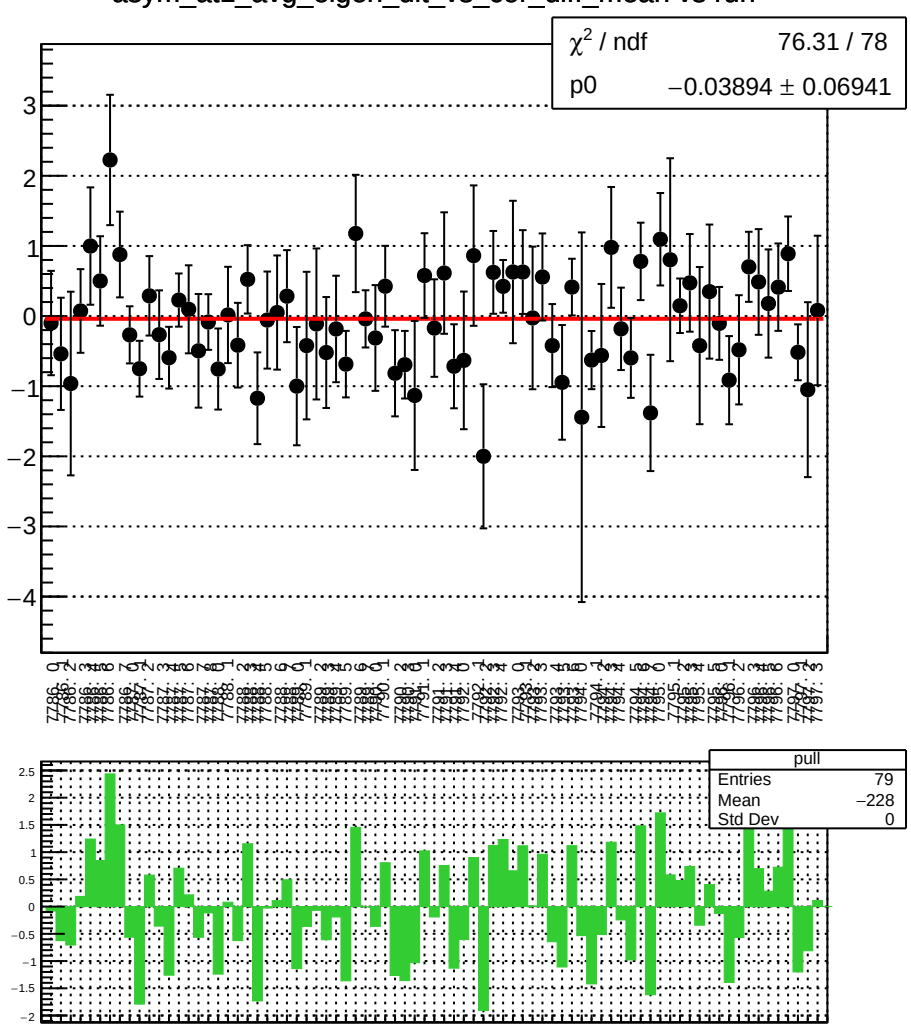

pull1D
Entries 79
Mean −0.005409
Std Dev 0.9828

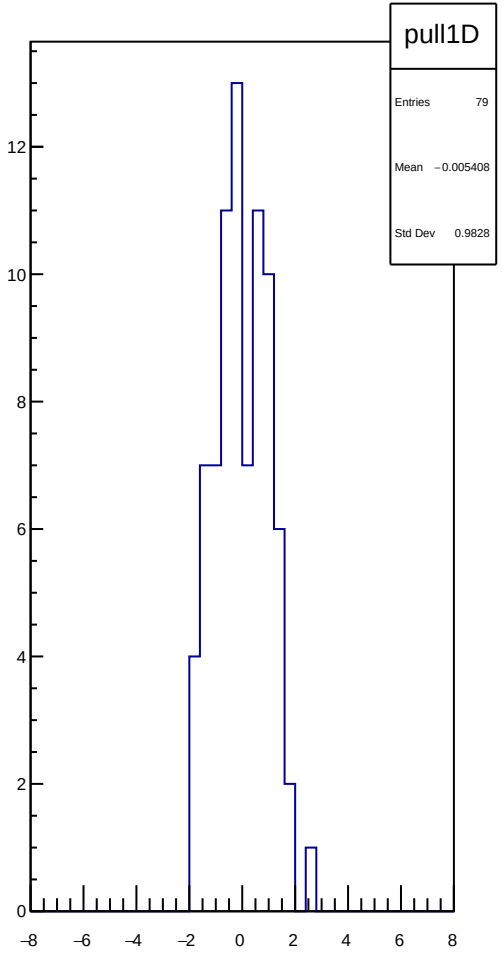

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.352e+05 / 78
p0 58.04 ± 0.04908
250
200
150
100
50

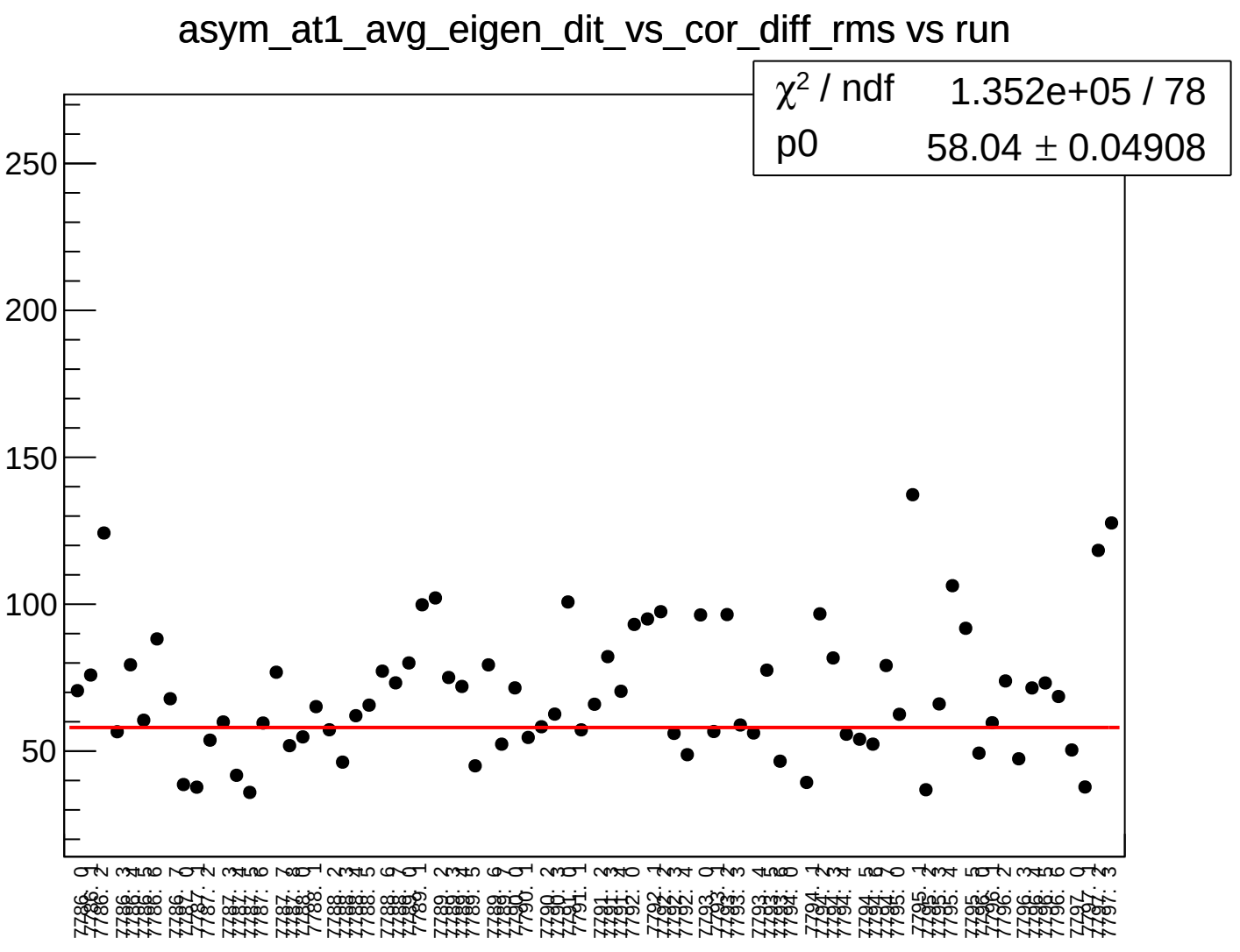

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.77 / 78
p0 7.585e−06 ± 5.055e−06
pull
Entries 79
Mean −59.62
Std Dev 0

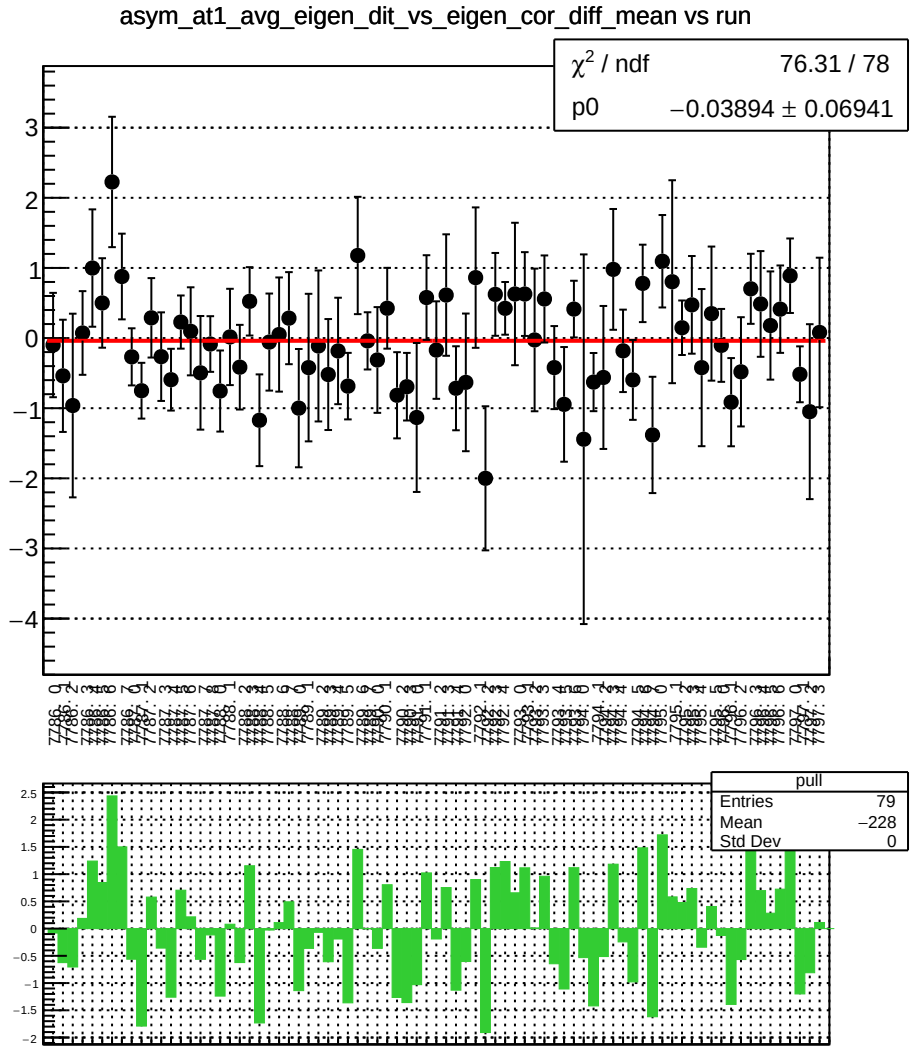

pull1D
Entries 79
Mean −0.01254
Std Dev 0.9597

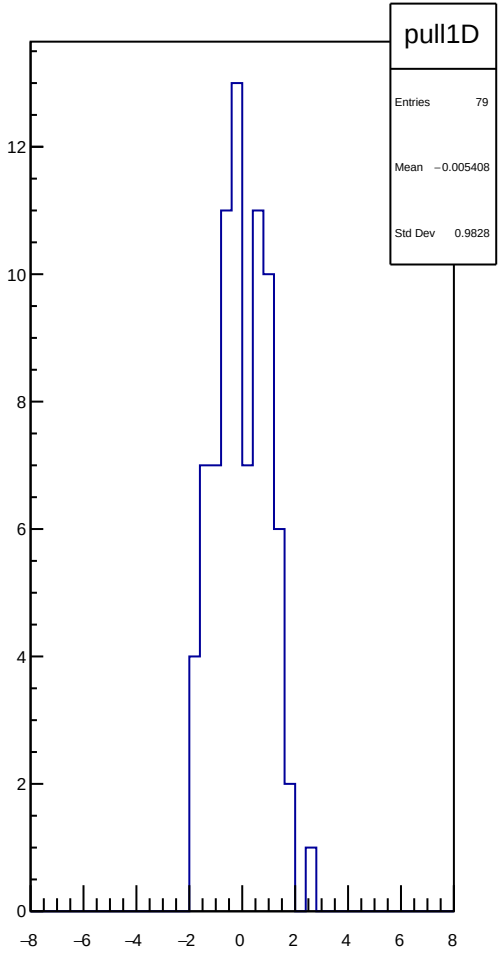

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2977 / 78
p0 0.004423 ± 3.575e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004

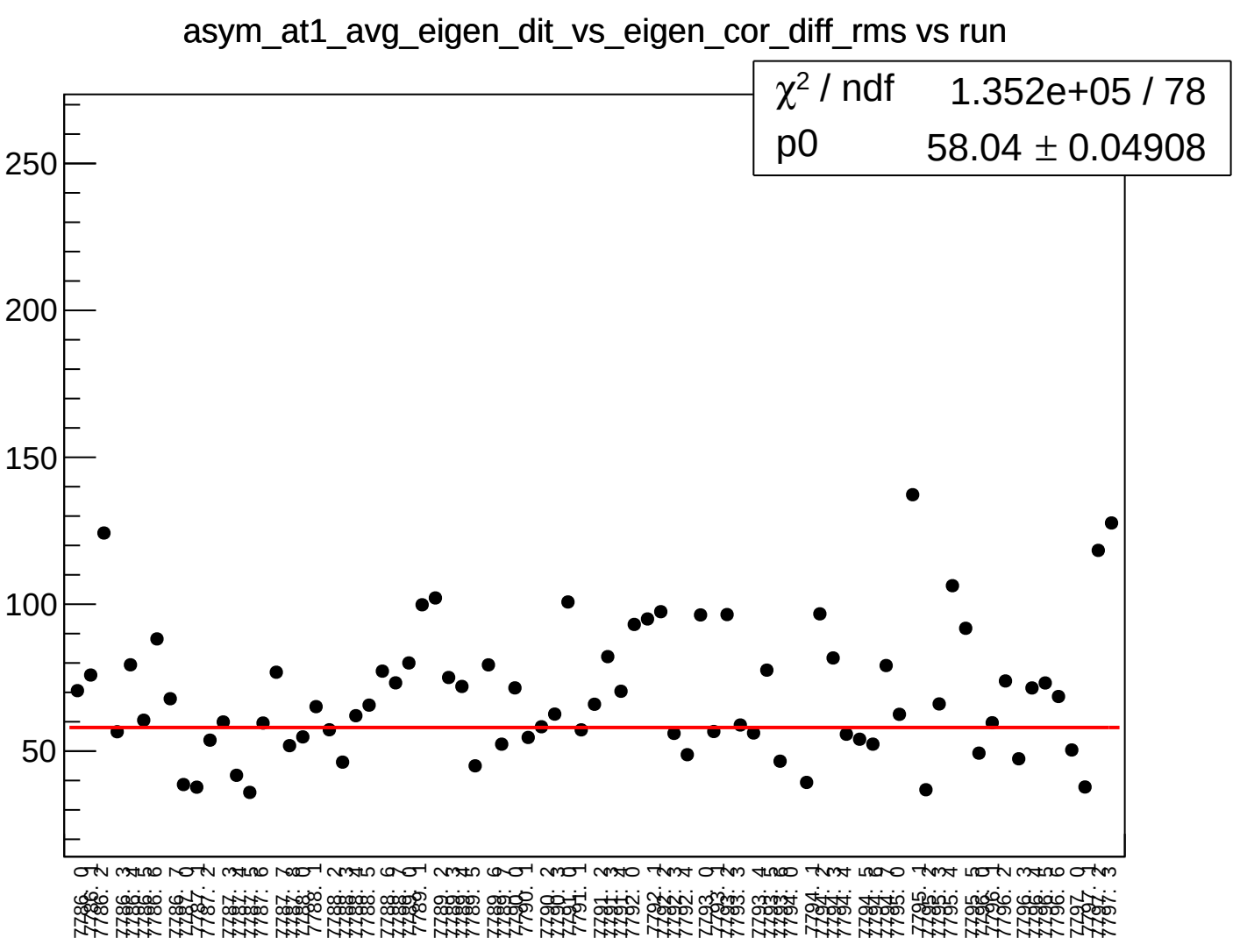

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 78
p0 −0.03894 ± 0.06941
pull
Entries 79
Mean −228
Std Dev 0

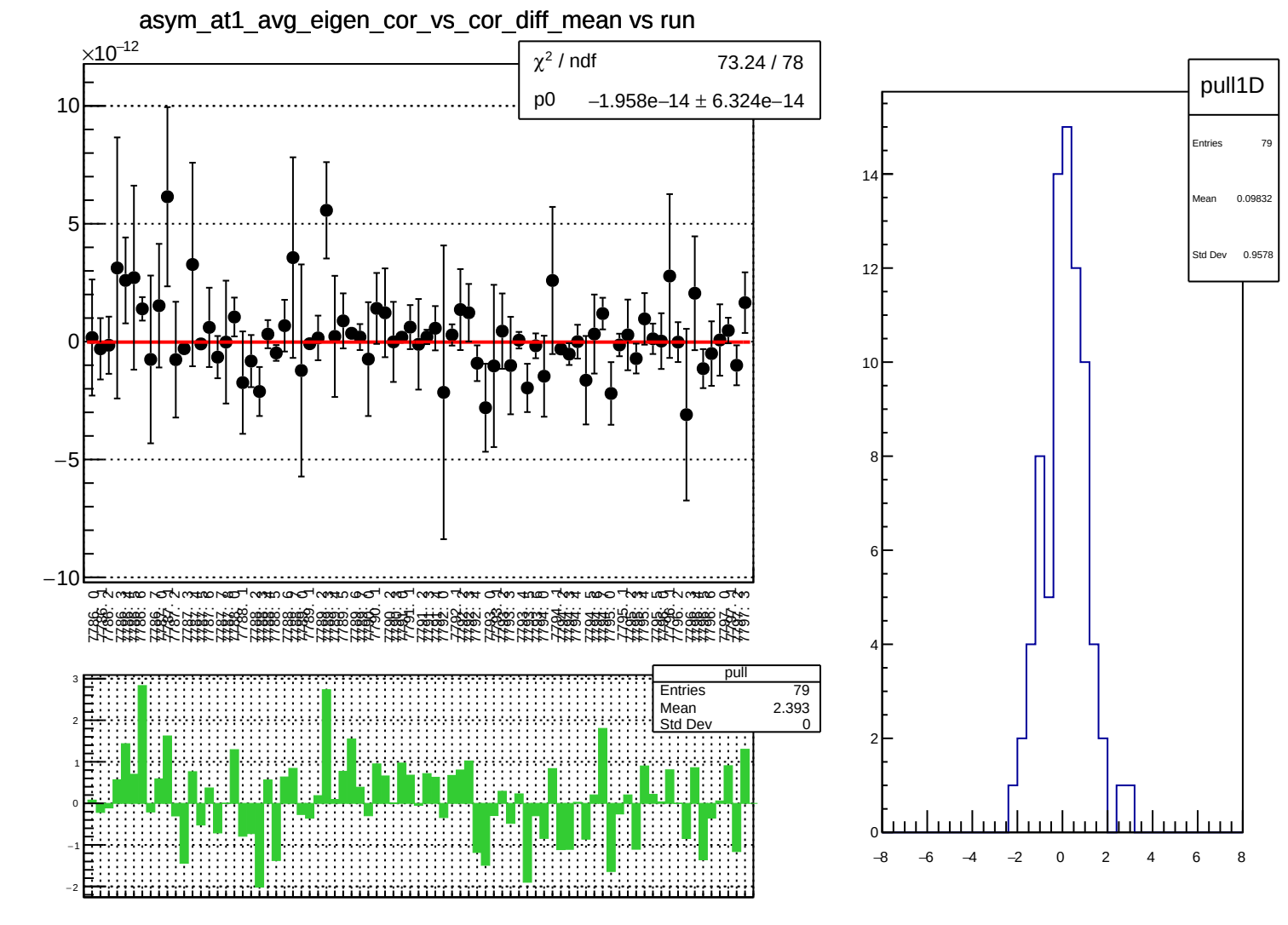

pull1D
Entries 79
Mean −0.005408
Std Dev 0.9828

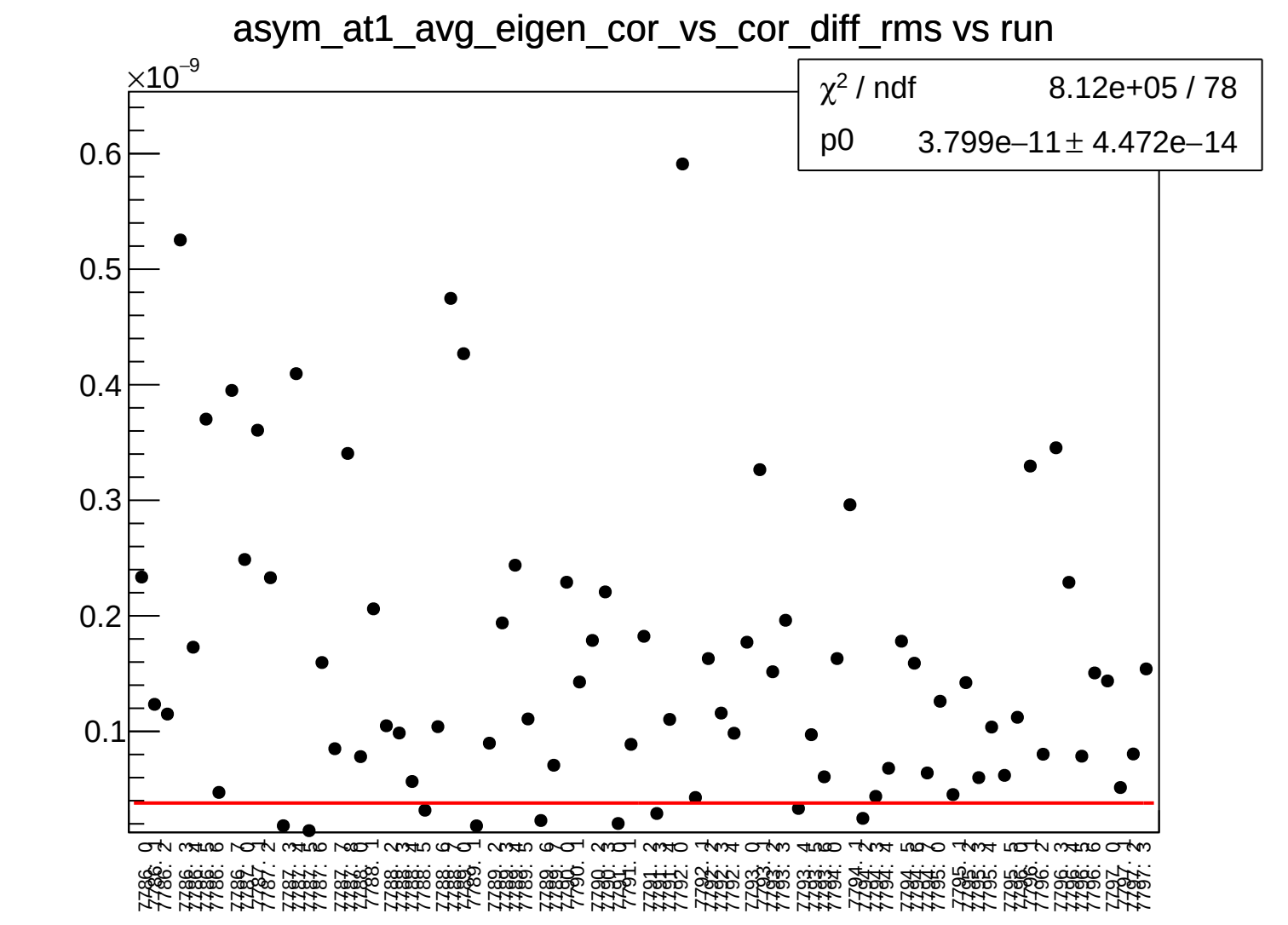

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.352e+05 / 78
p0 58.04 ± 0.04908
250
200
150
100
50

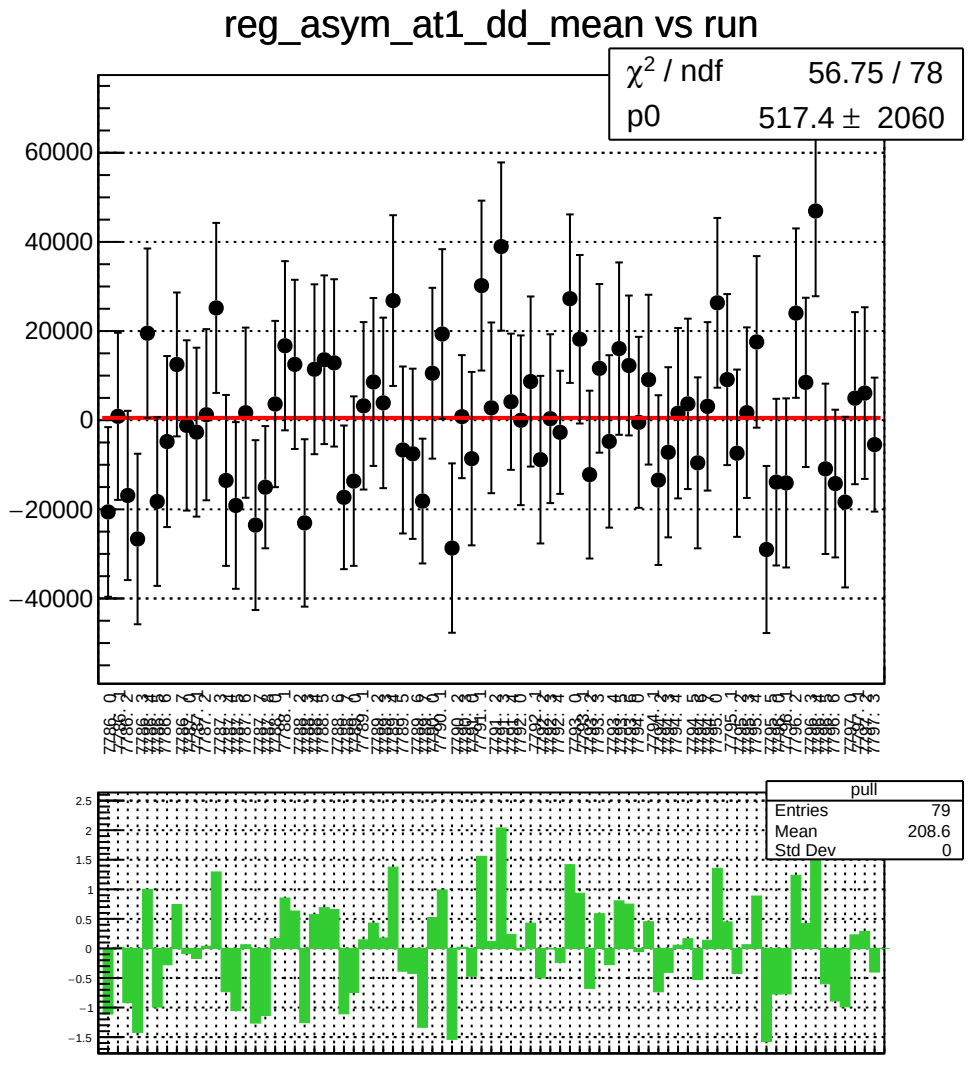

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.31 / 78
p0 −0.03894 ± 0.06941
pull
Entries 79
Mean −228
Std Dev 0

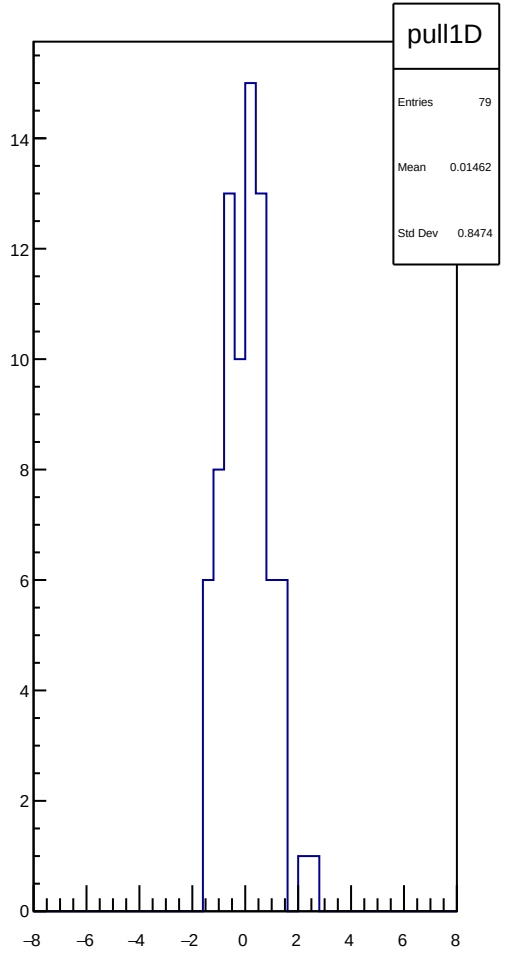

pull1D
Entries 79
Mean −0.005408
Std Dev 0.9828

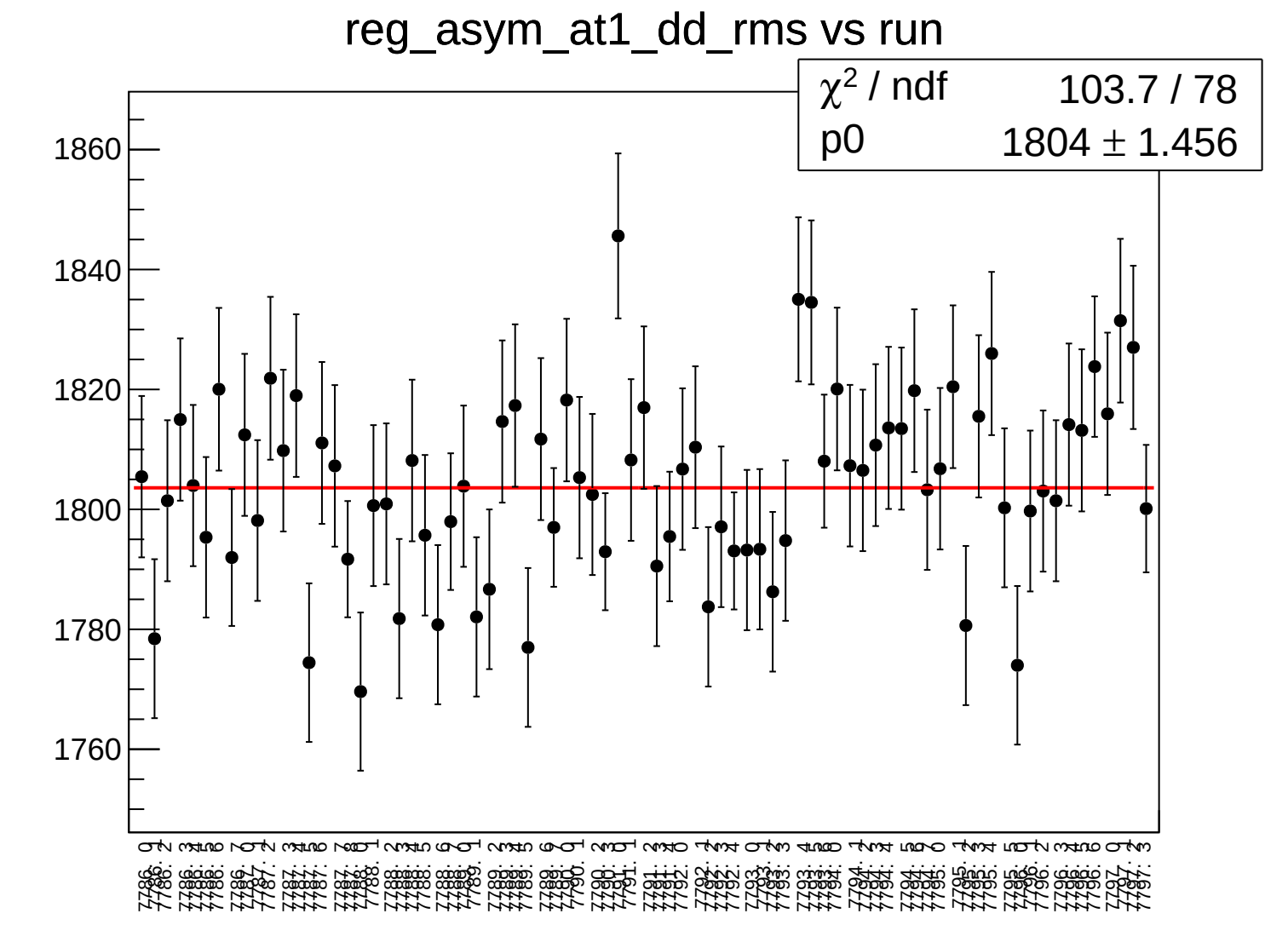

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.352e+05 / 78
p0 58.04 ± 0.04908
250
200
150
100
50

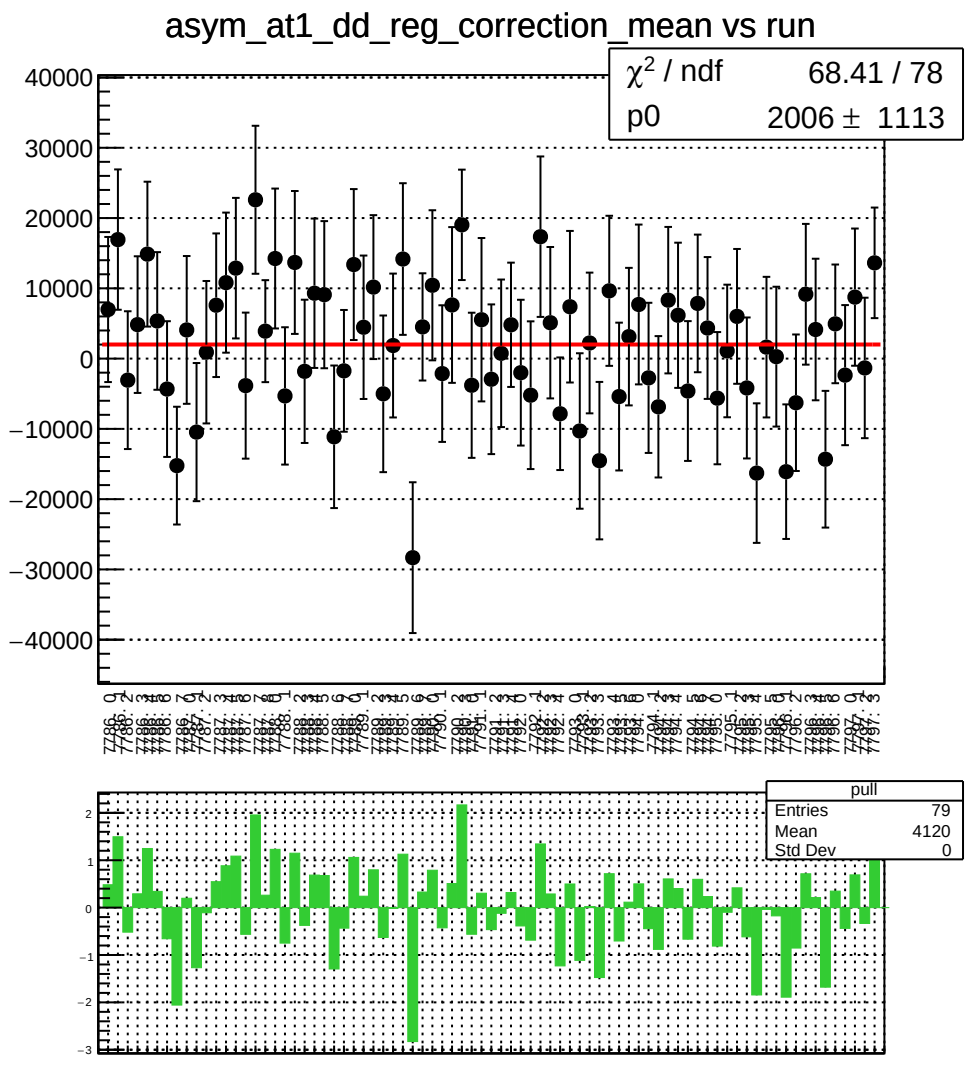

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.24 / 78
p0 −1.958e−14 ± 6.324e−14
pull
Entries 79
Mean 2.393
Std Dev 0
pull1D
Entries 79
Mean 0.09832
Std Dev 0.9578

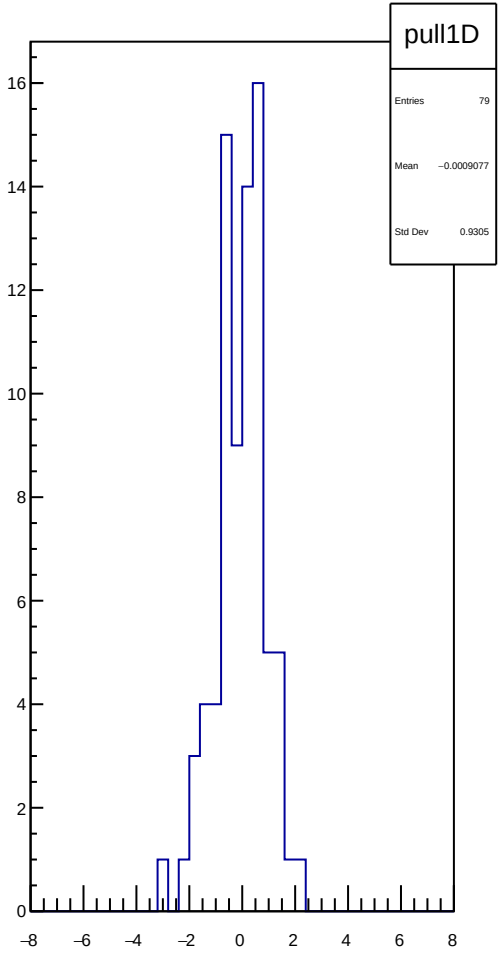

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.12e+05 / 78
p0 3.799e−11 ± 4.472e−14
0.6
0.5
0.4
0.3
0.2
0.1

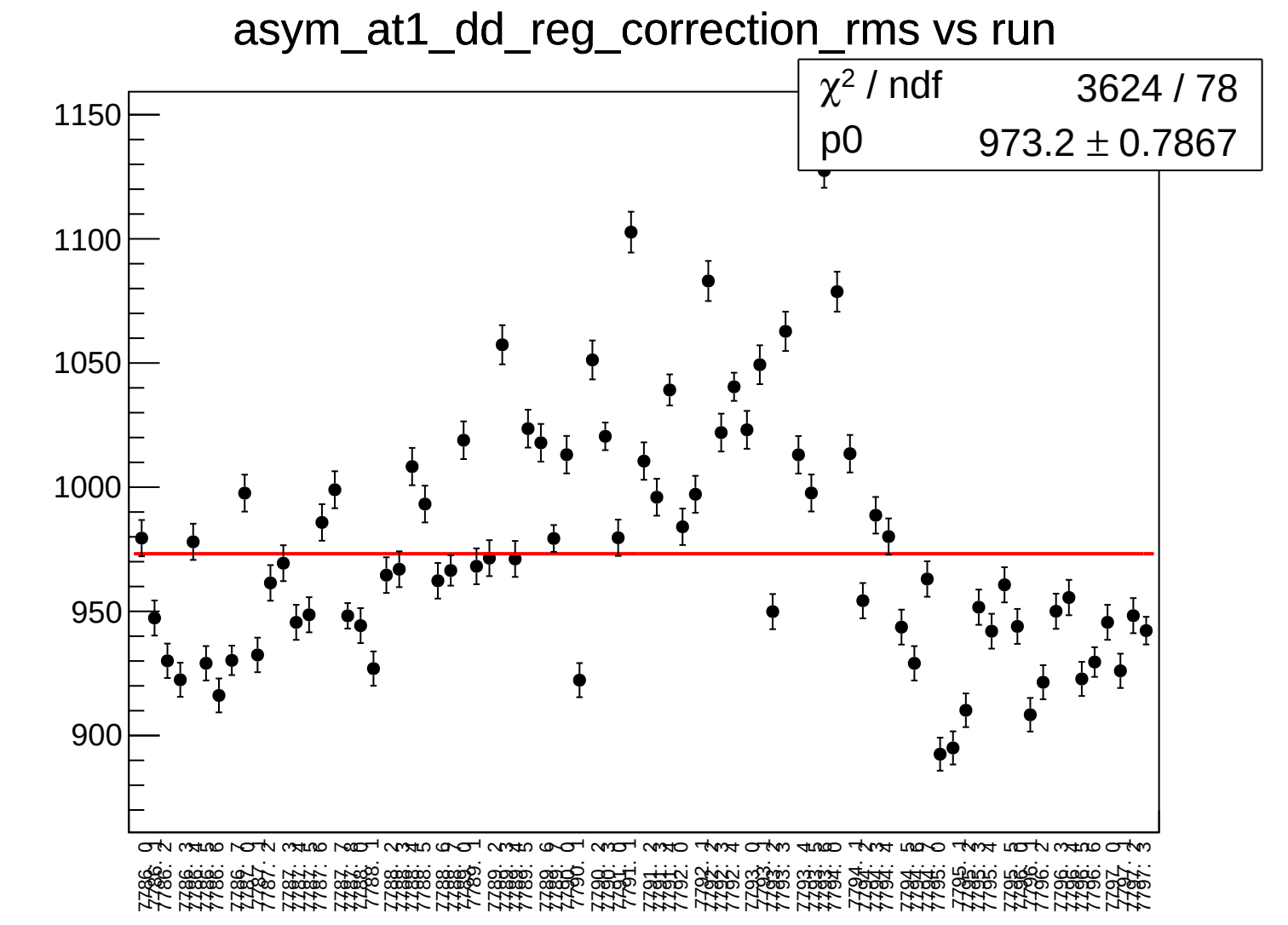

reg_asym_at1_dd_mean vs run
χ² / ndf 56.75 / 78
p0 517.4 ± 2060
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 208.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

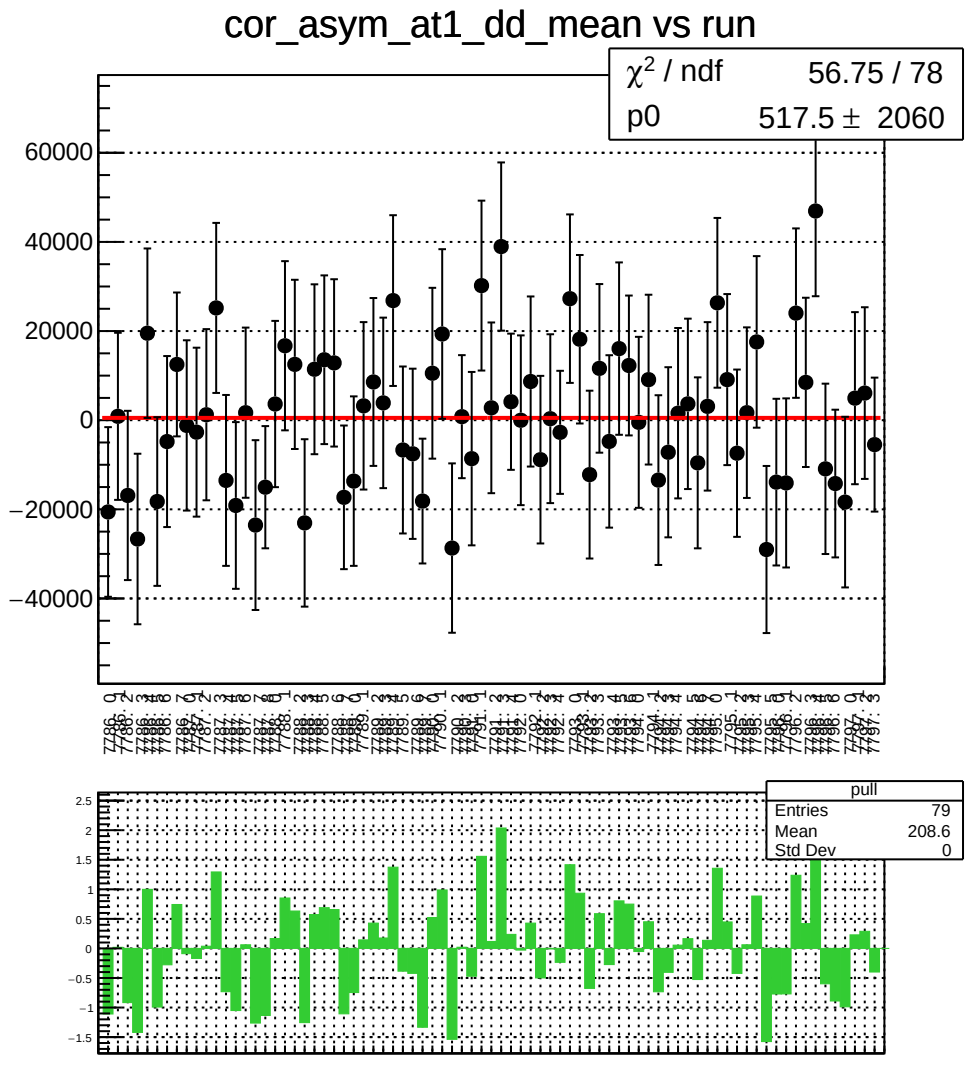

pull1D
Entries 79
Mean 0.01462
Std Dev 0.8474
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

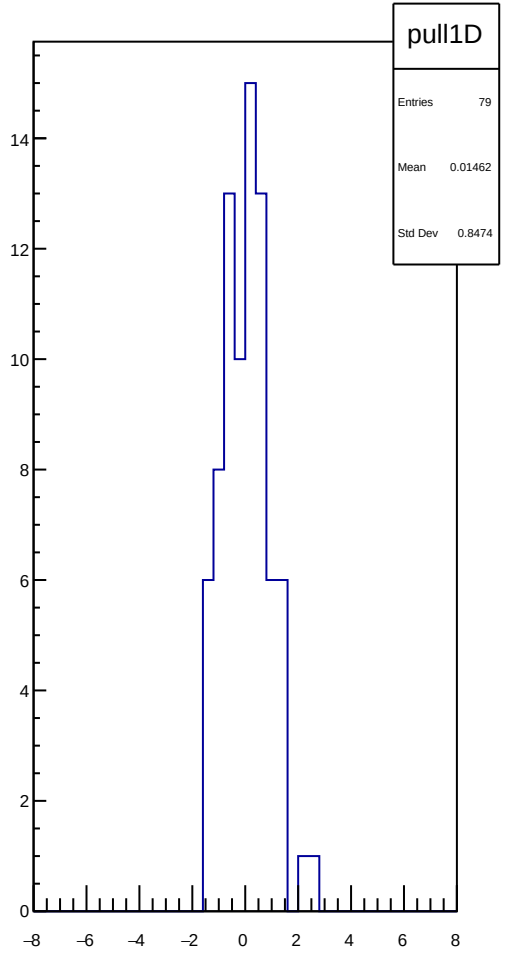

reg_asym_at1_dd_rms vs run
χ^2 / ndf 103.7 / 78
p0 1804 ± 1.456
1860
1840
1820
1800
1780
1760

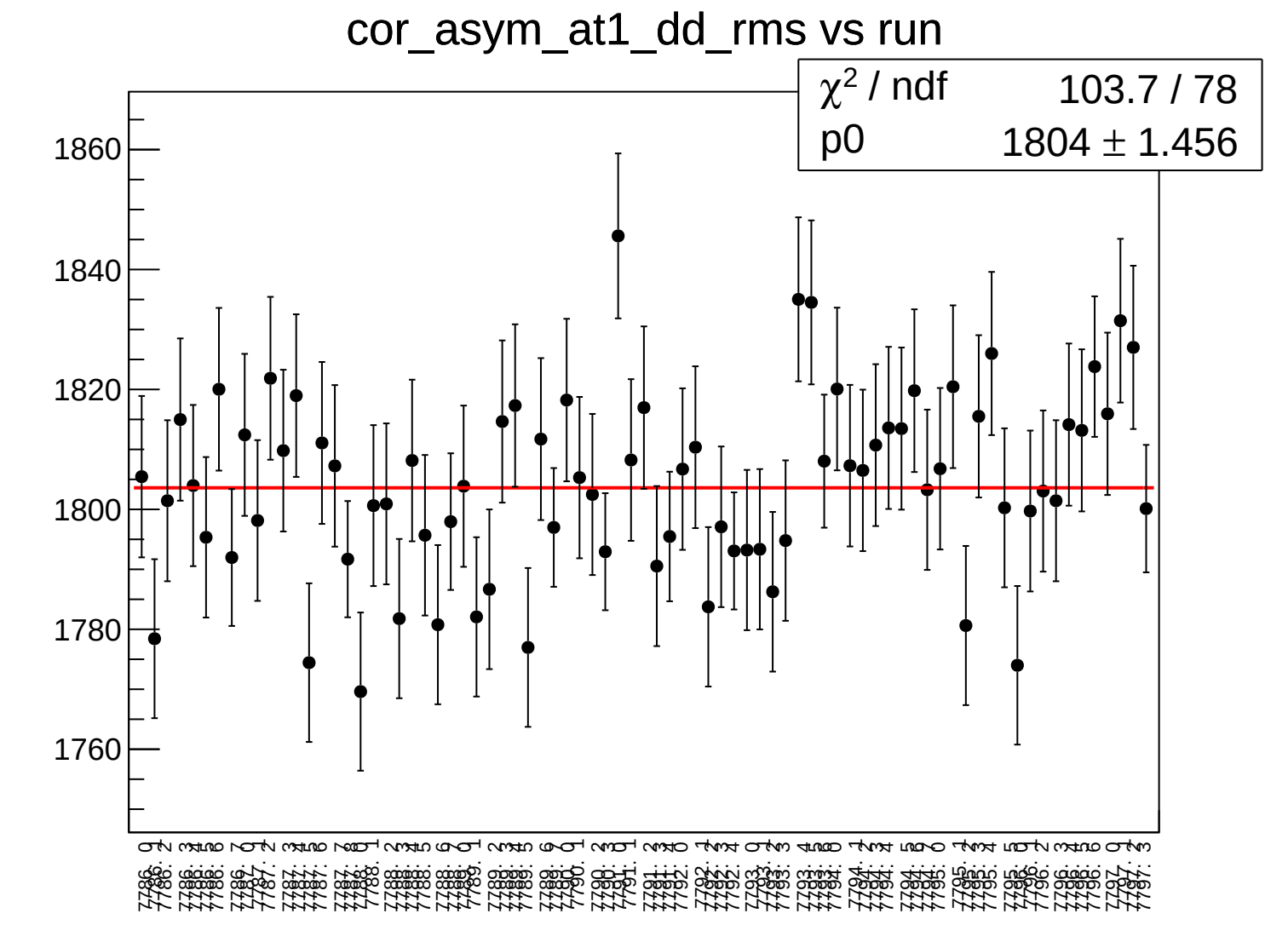

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 68.41 / 78
p0 2006 ± 1113
pull
Entries 79
Mean 4120
Std Dev 0

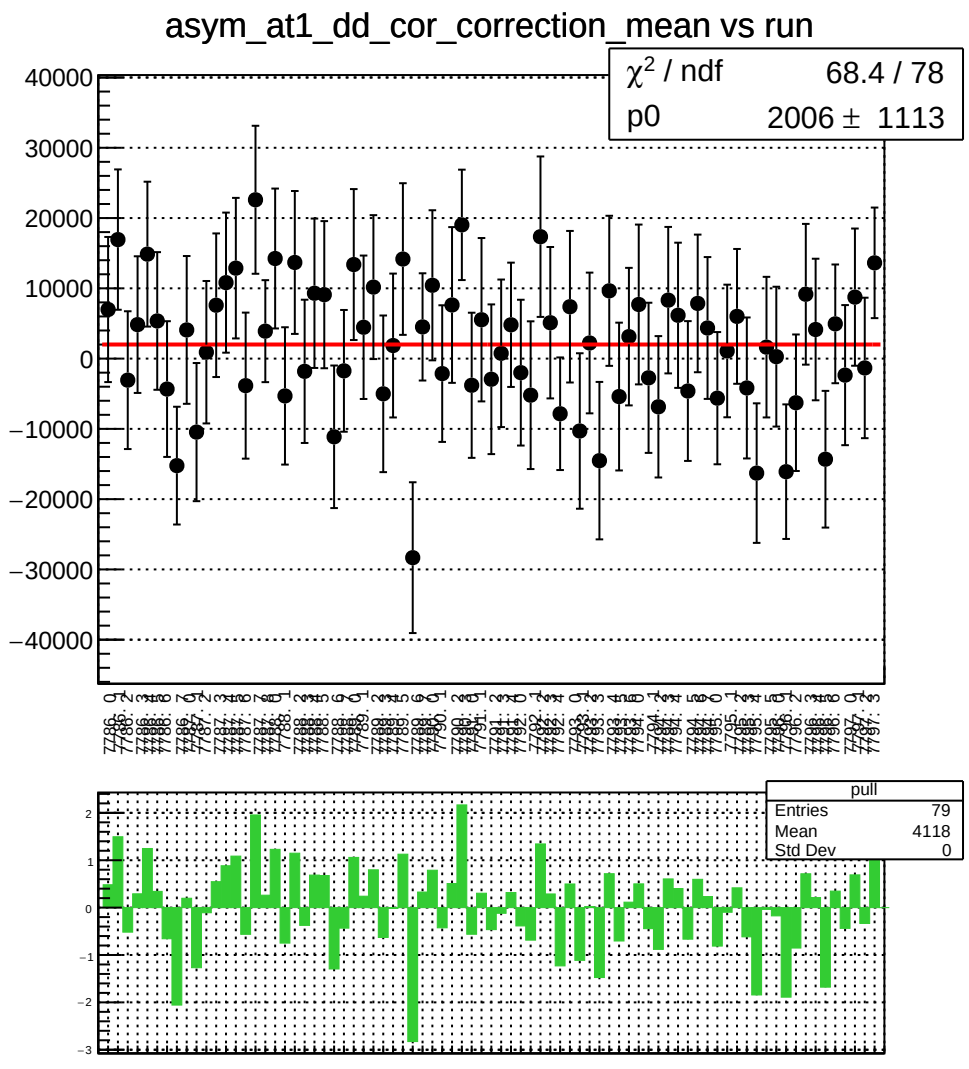

pull1D
Entries 79
Mean −0.0009077
Std Dev 0.9305

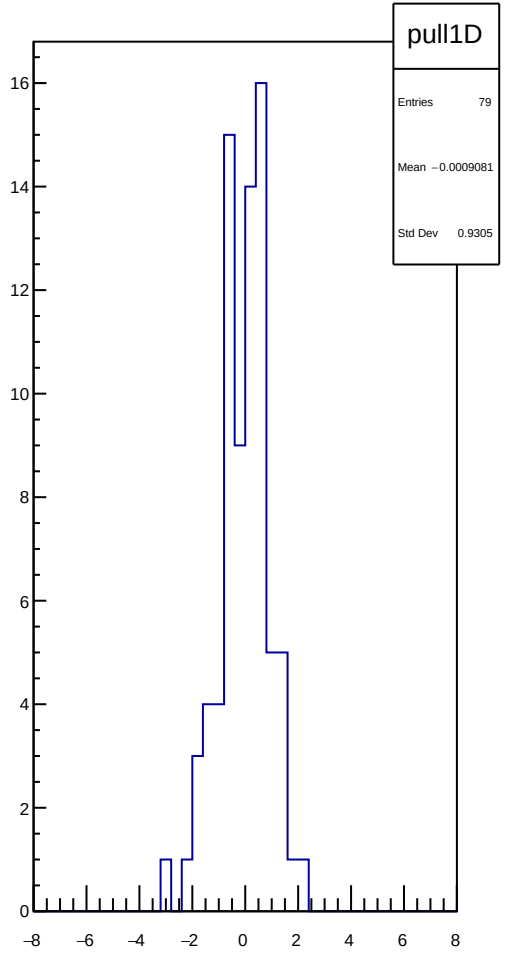

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 3624 / 78
p0 973.2 ± 0.7867
1150
1100
1050
1000
950
900

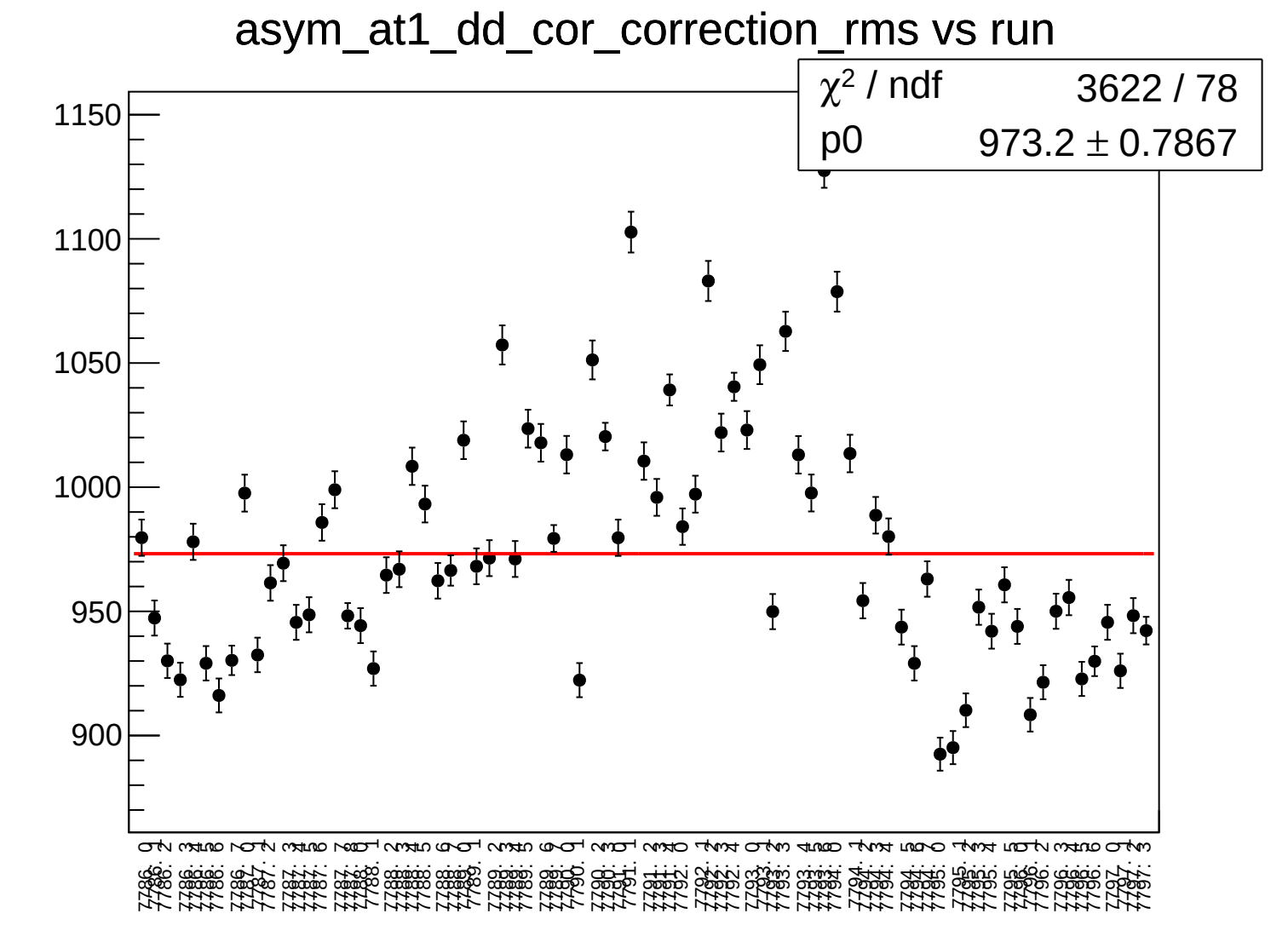

cor_asym_at1_dd_mean vs run
χ² / ndf 56.75 / 78
p0 517.5 ± 2060
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 208.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

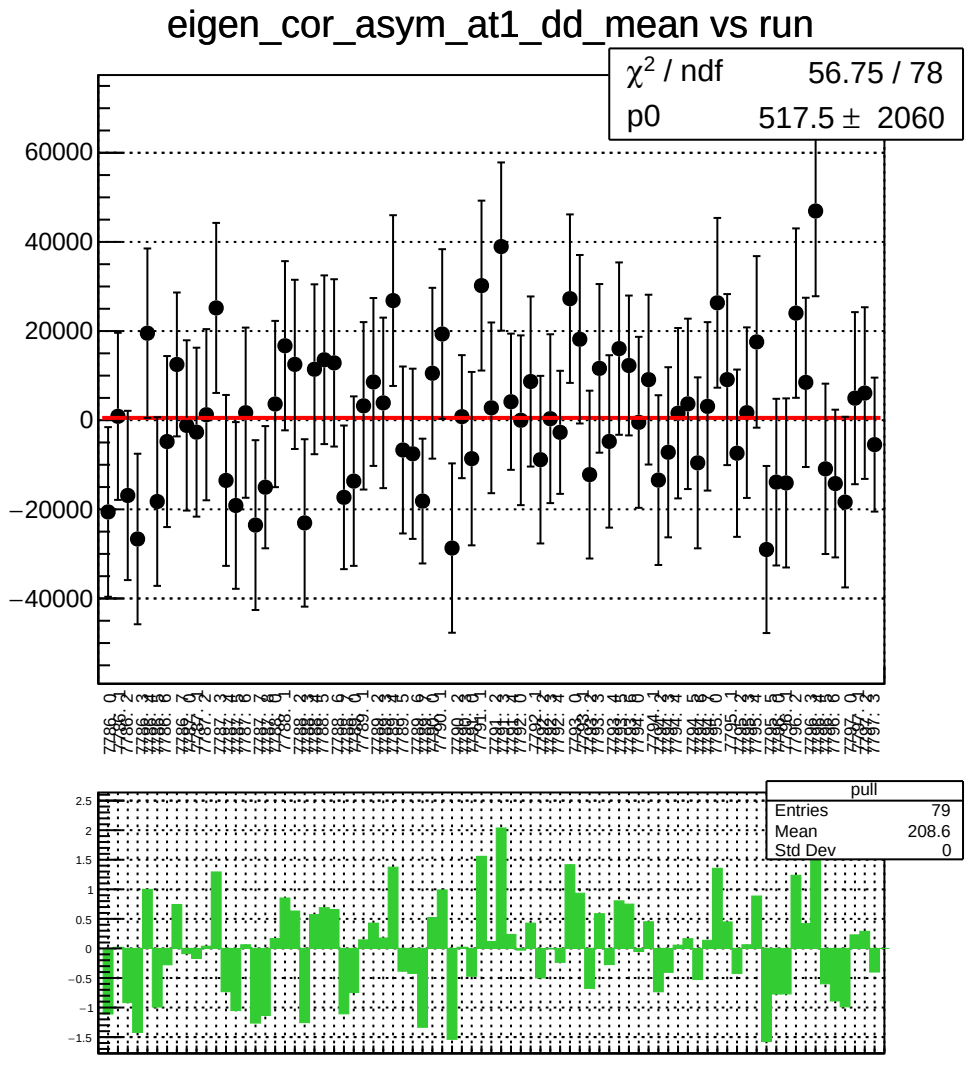

pull1D
Entries 79
Mean 0.01462
Std Dev 0.8474
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

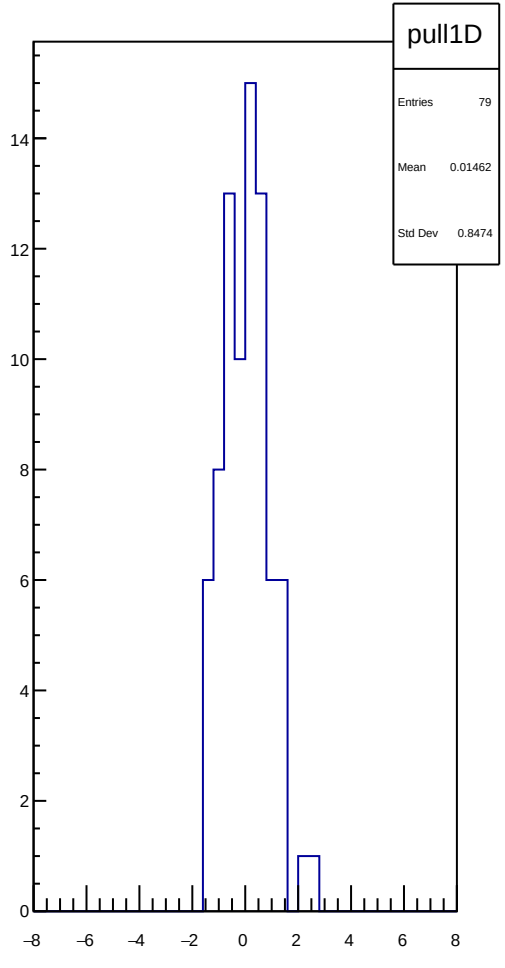

cor_asym_at1_dd_rms vs run
χ^2 / ndf 103.7 / 78
p0 1804 ± 1.456
1860
1840
1820
1800
1780
1760

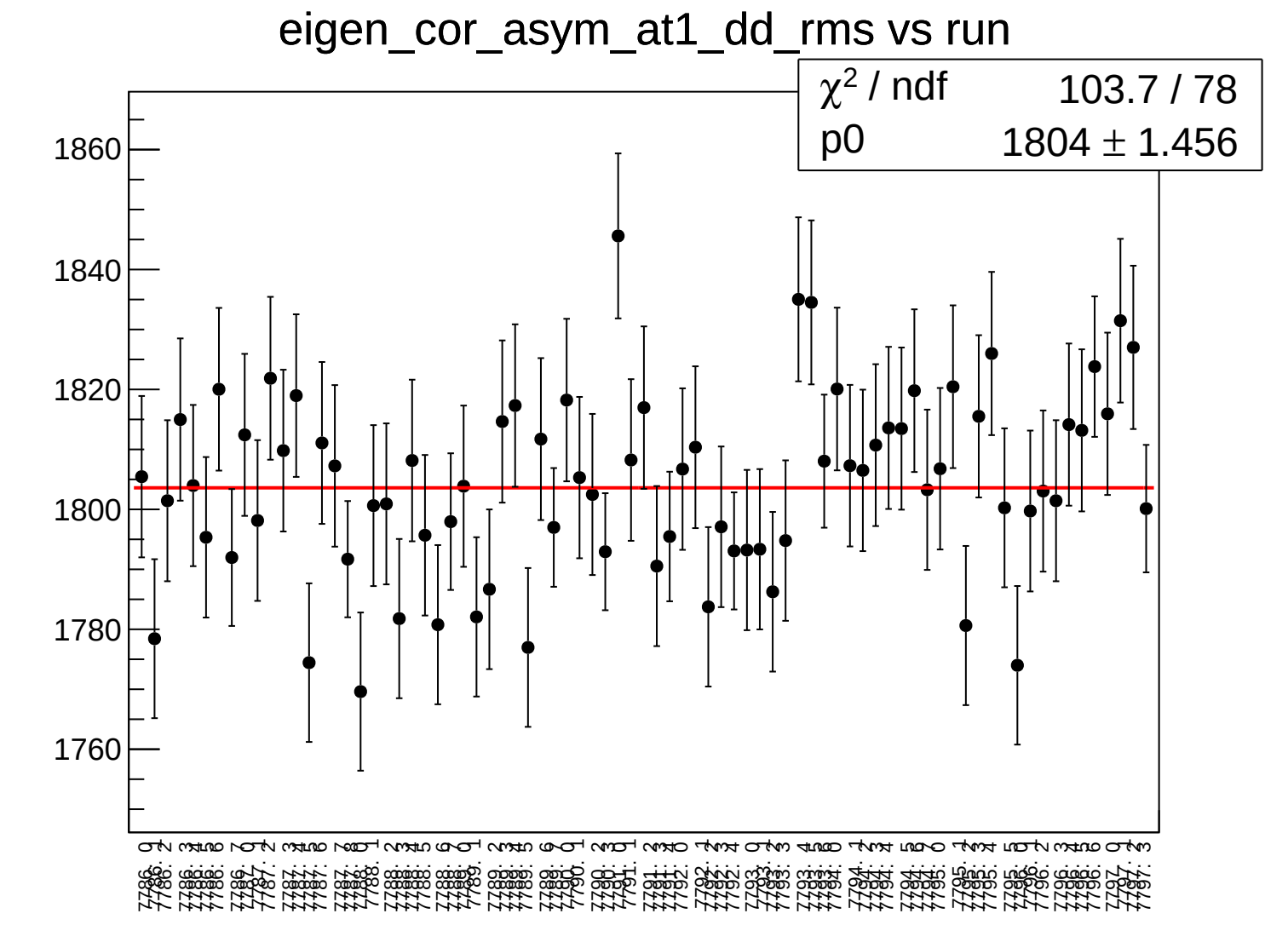

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 68.4 / 78
p0 2006 ± 1113
pull
Entries 79
Mean 4118
Std Dev 0

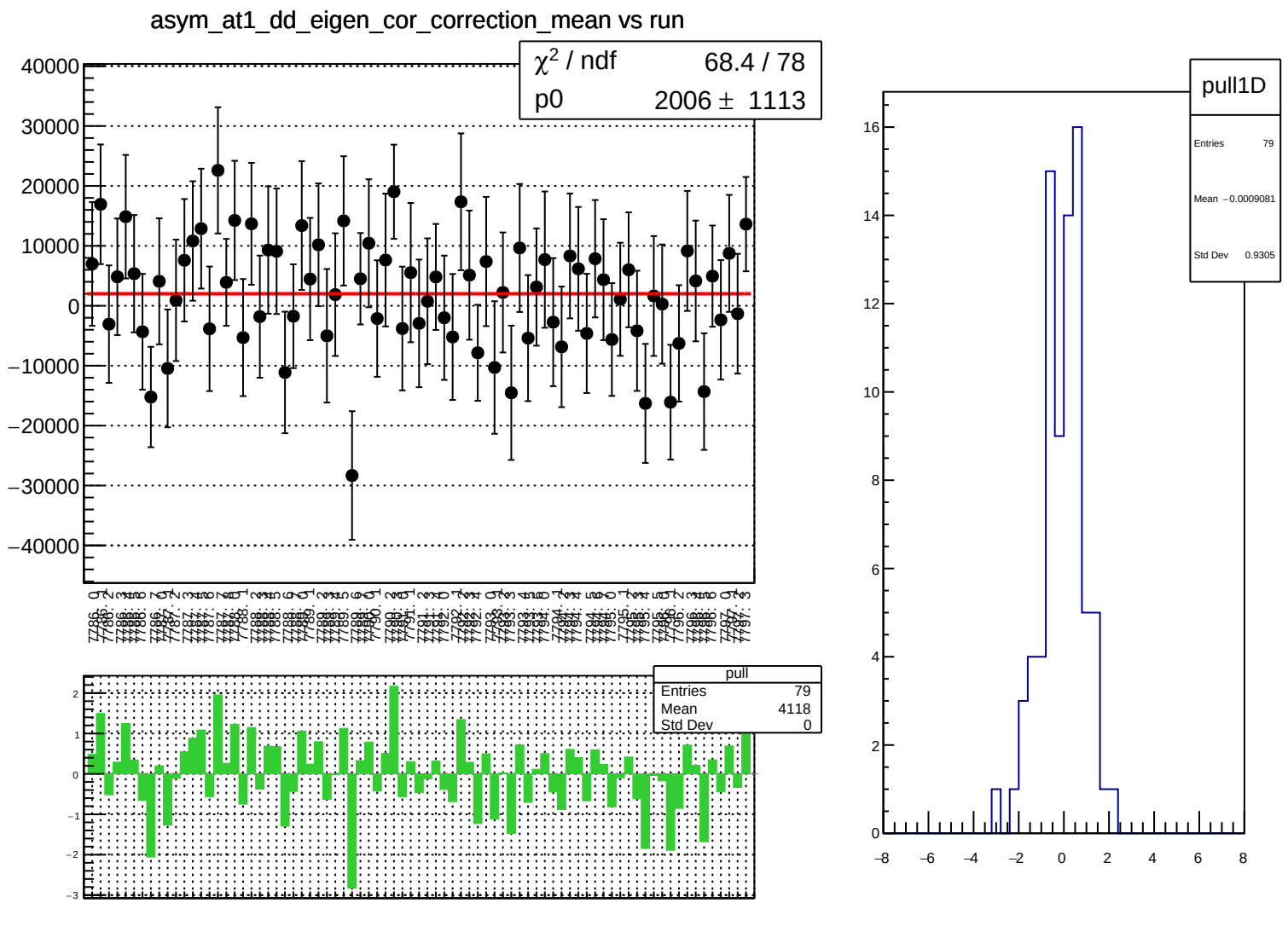

pull1D
Entries 79
Mean −0.0009081
Std Dev 0.9305

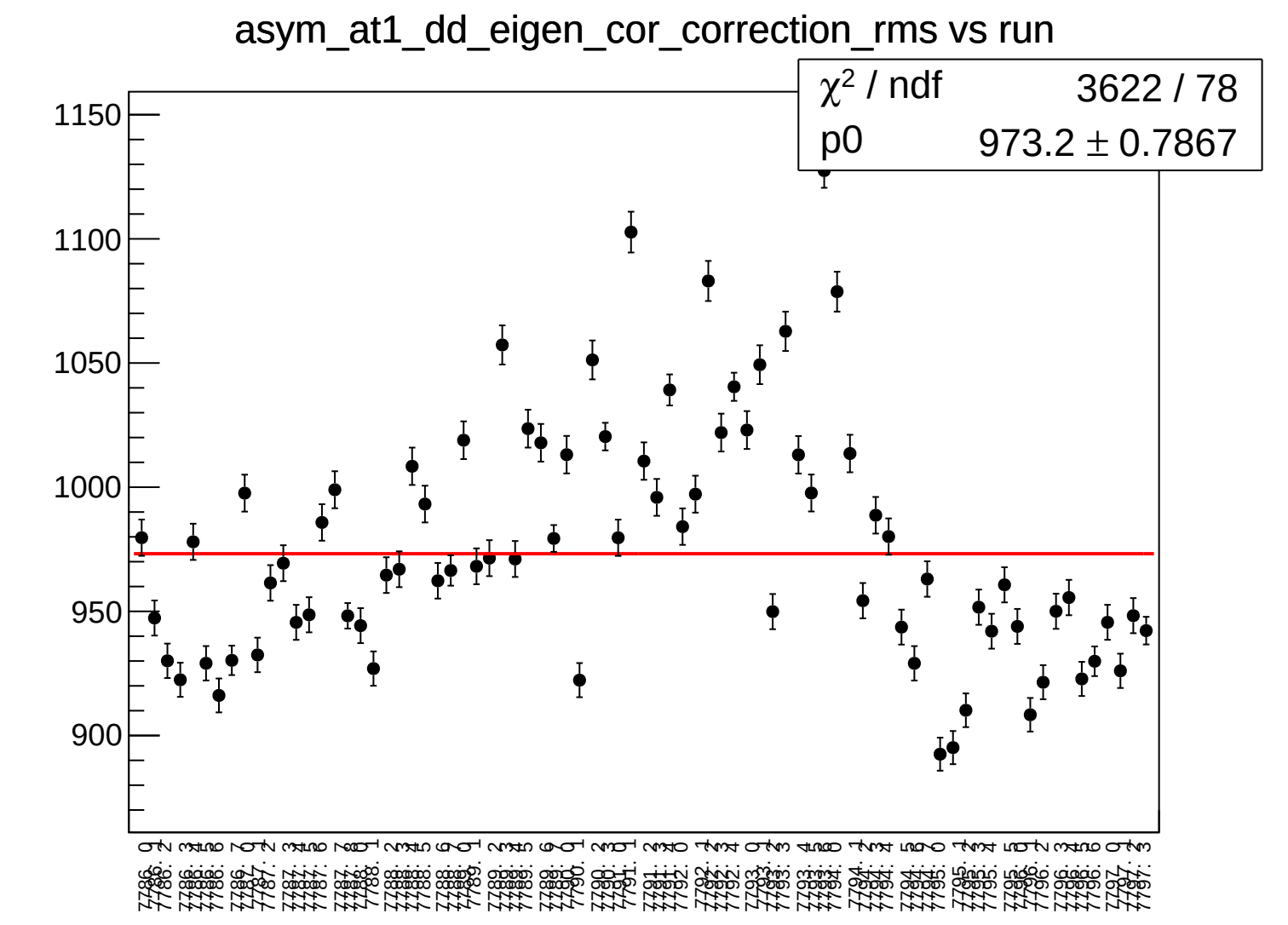

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 3622 / 78
p0 973.2 ± 0.7867
1150
1100
1050
1000
950
900

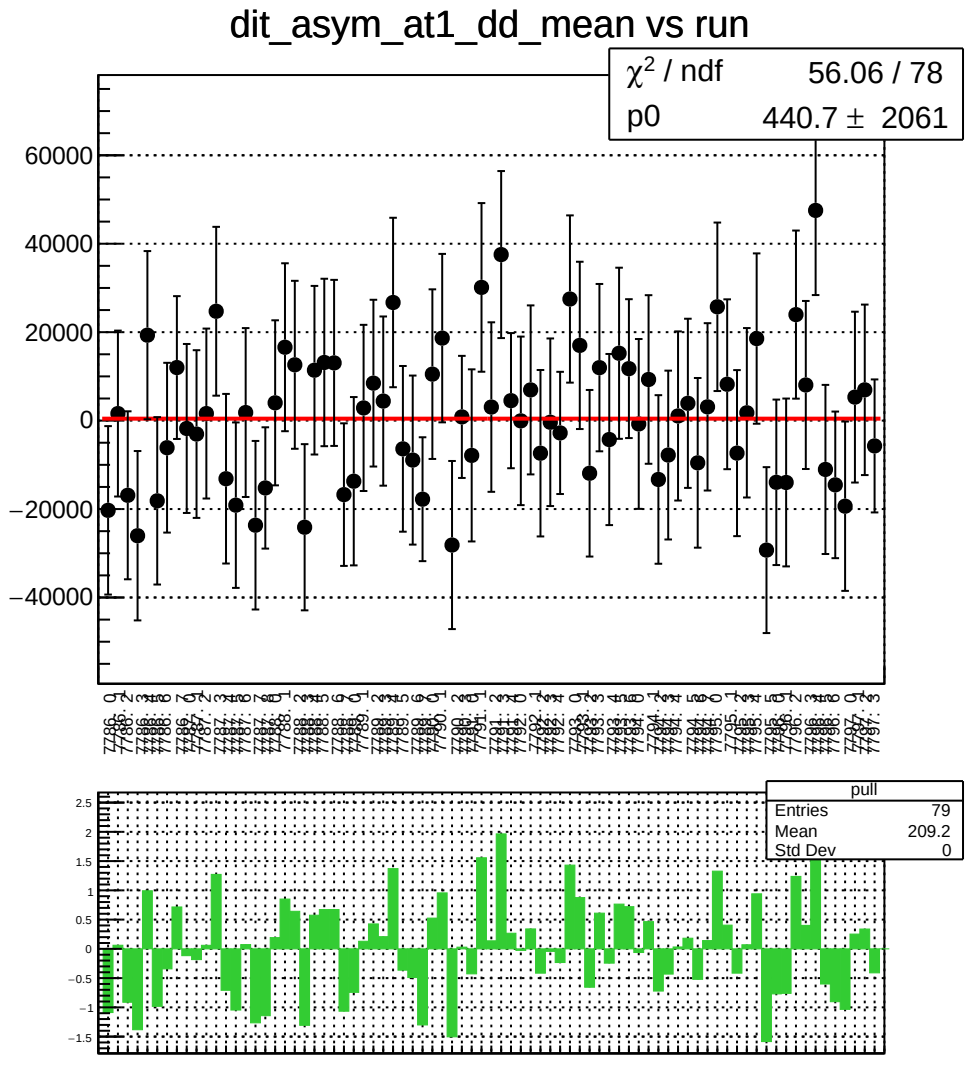

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 56.75 / 78
p0 517.5 ± 2060
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 208.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

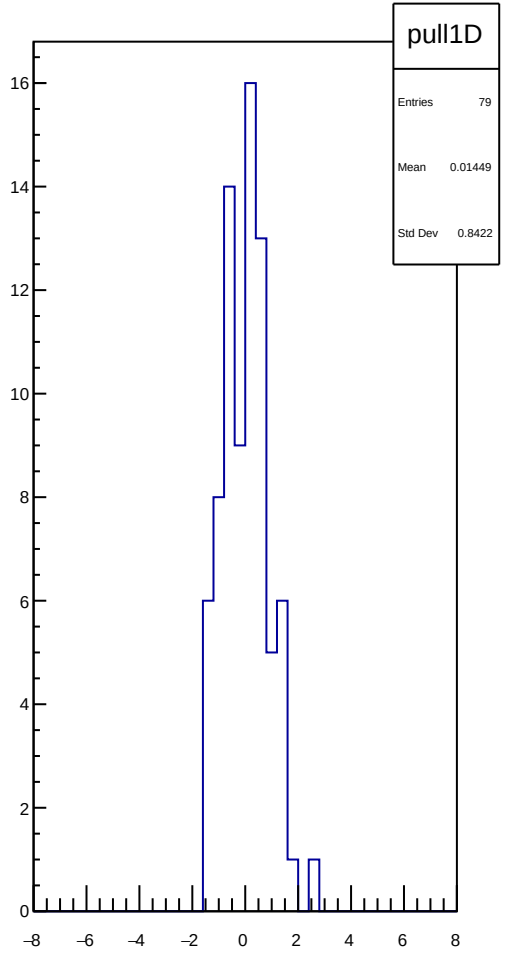

pull1D
Entries 79
Mean 0.01462
Std Dev 0.8474
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

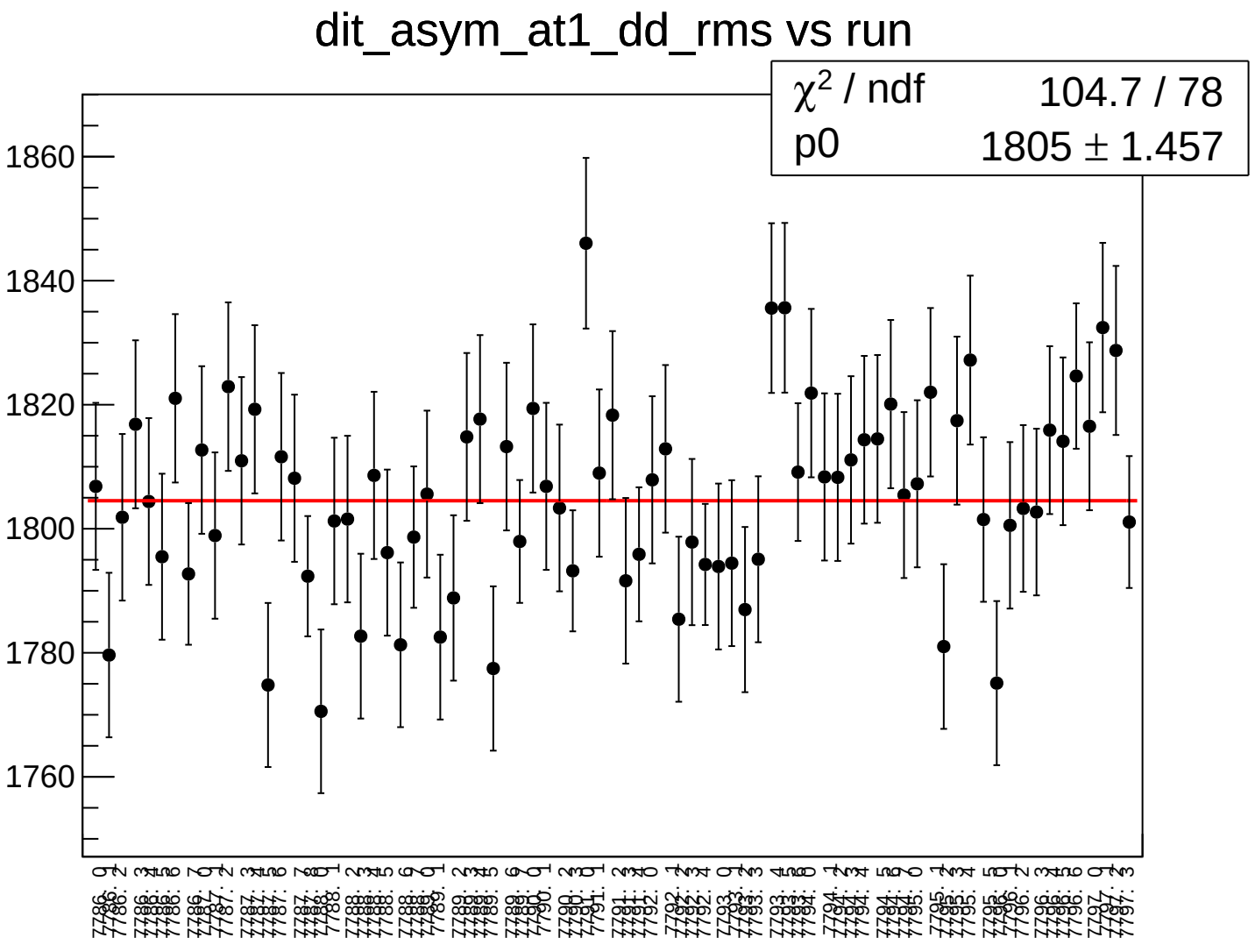

eigen_cor_asym_at1_dd_rms vs run
χ^2 / ndf 103.7 / 78
p0 1804 ± 1.456
1860
1840
1820
1800
1780
1760

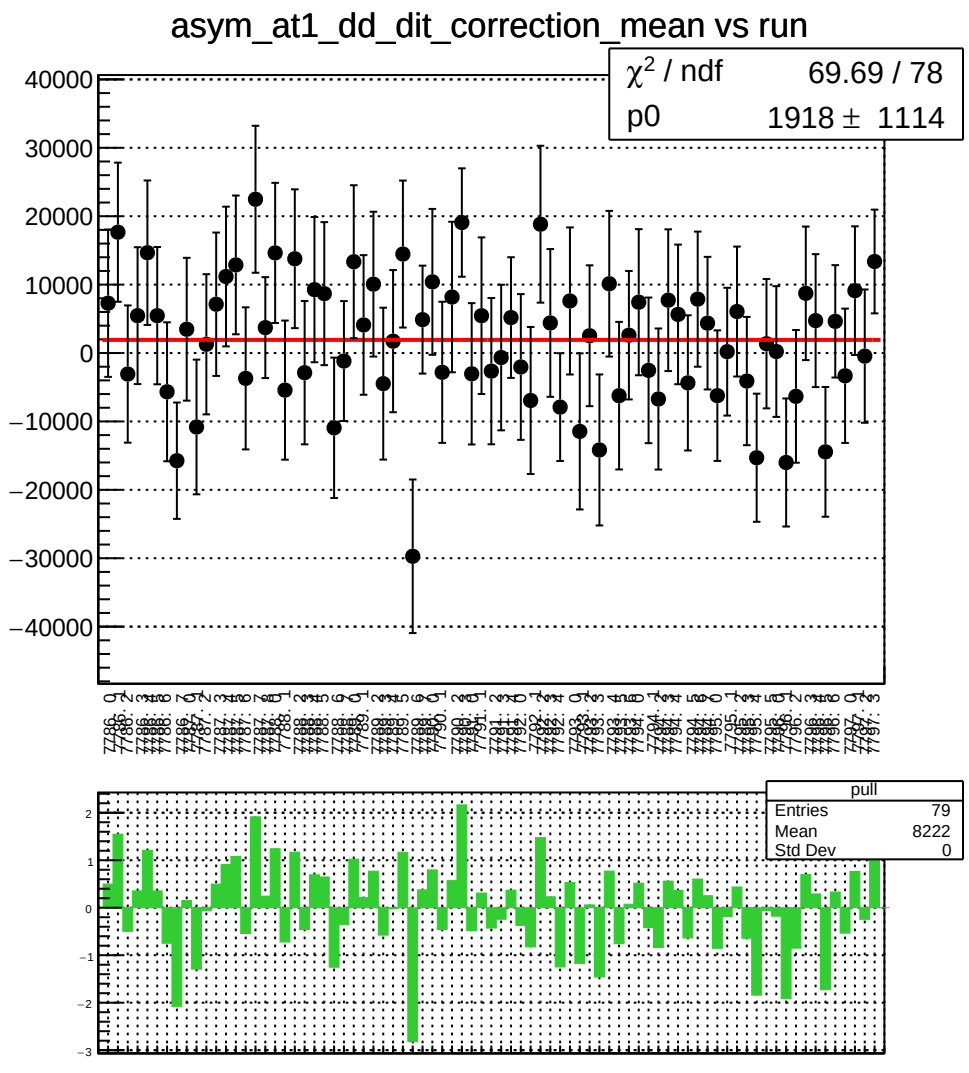

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.4 / 78
p0 2006 ± 1113
pull
Entries 79
Mean 4118
Std Dev 0
pull1D
Entries 79
Mean −0.0009081
Std Dev 0.9305

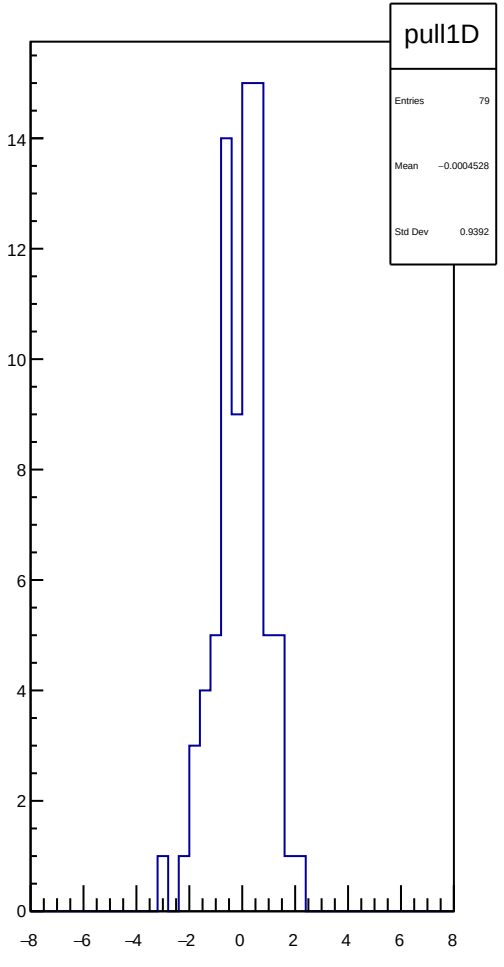

asym_at1_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 3622 / 78
p0 973.2 ± 0.7867
1150
1100
1050
1000
950
900

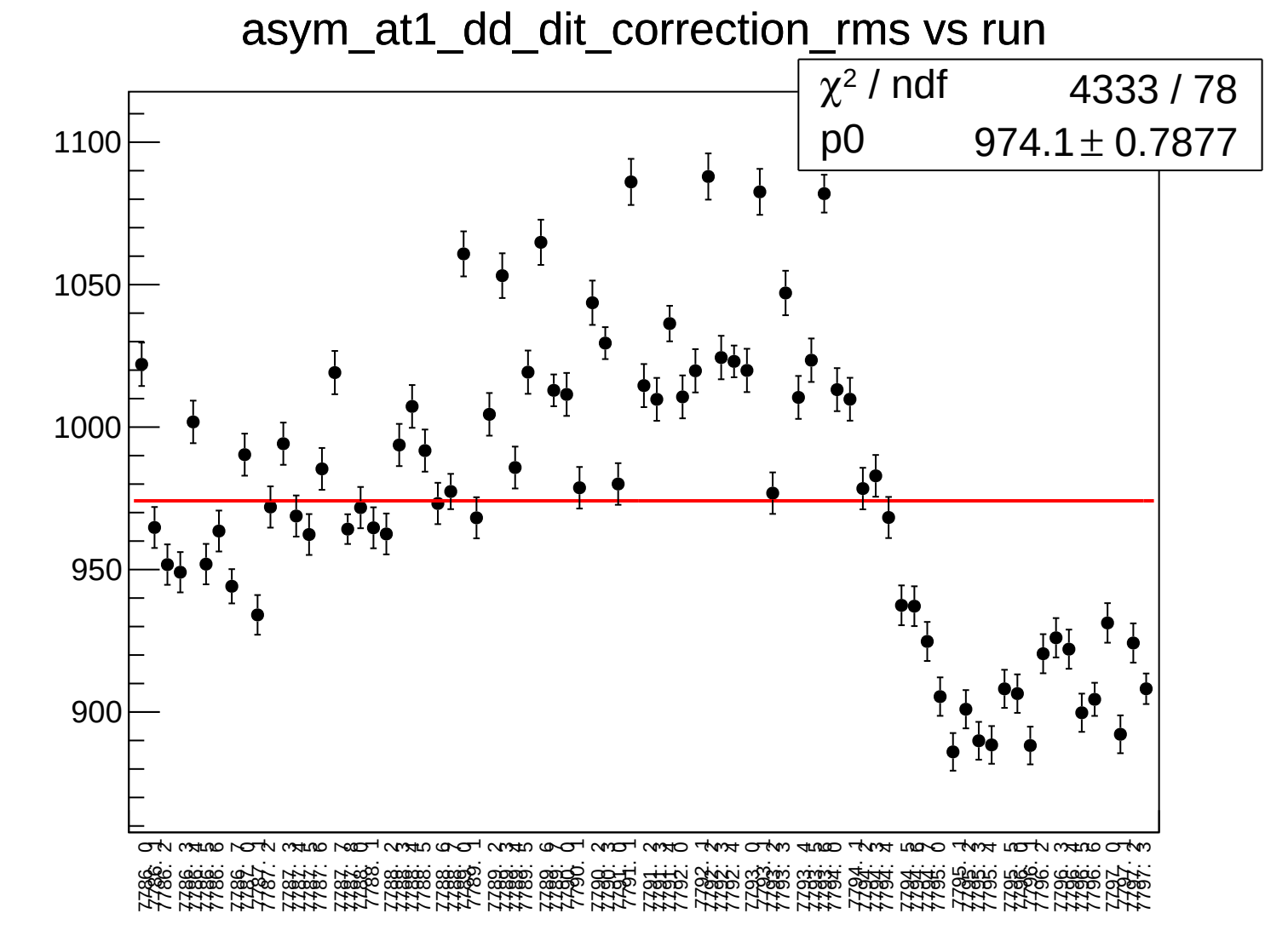

dit_asym_at1_dd_mean vs run
χ² / ndf 56.06 / 78
p0 440.7 ± 2061
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 209.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

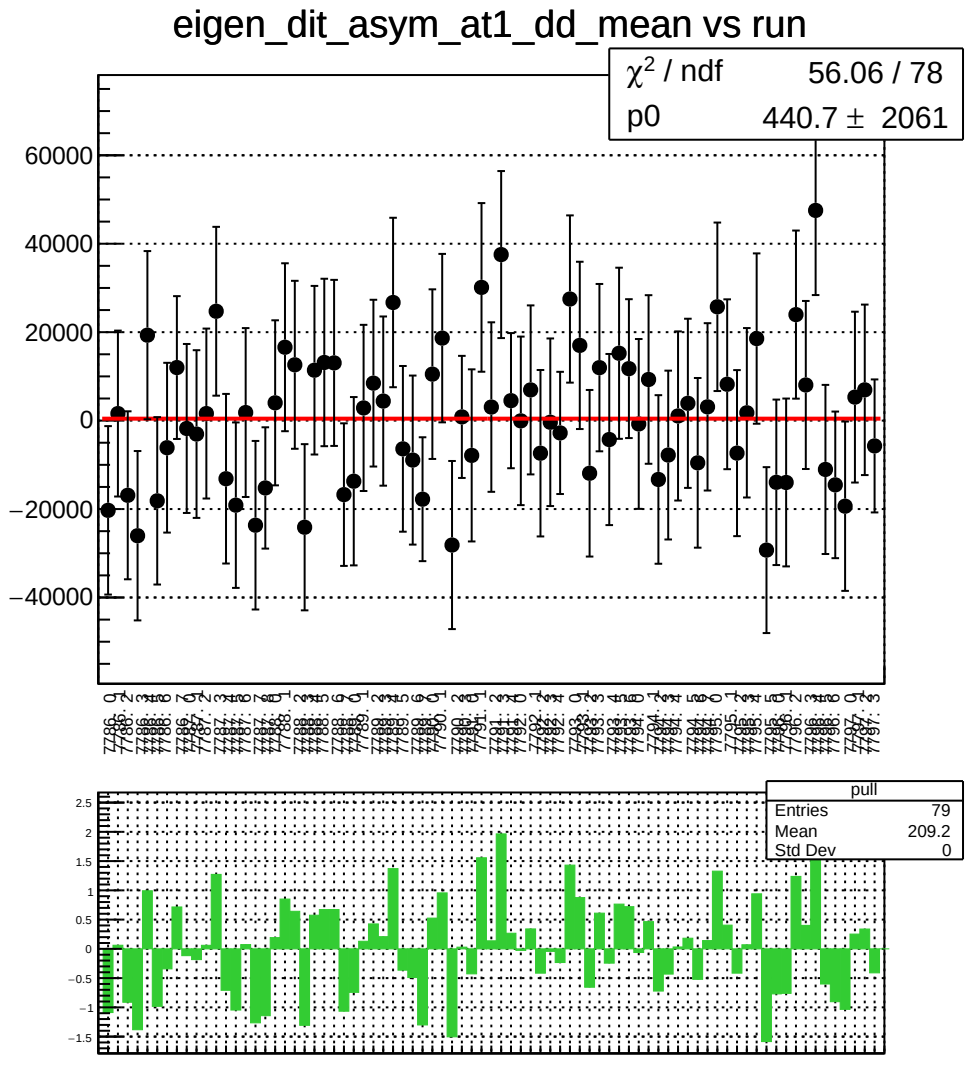

pull1D
Entries 79
Mean 0.01449
Std Dev 0.8422
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

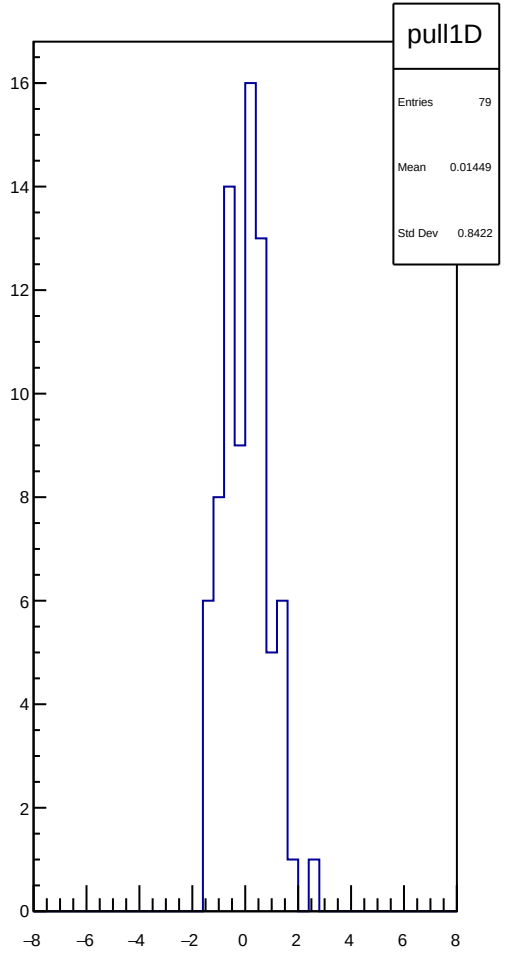

dit_asym_at1_dd_rms vs run
χ^2 / ndf 104.7 / 78
p0 1805 ± 1.457
1860
1840
1820
1800
1780
1760

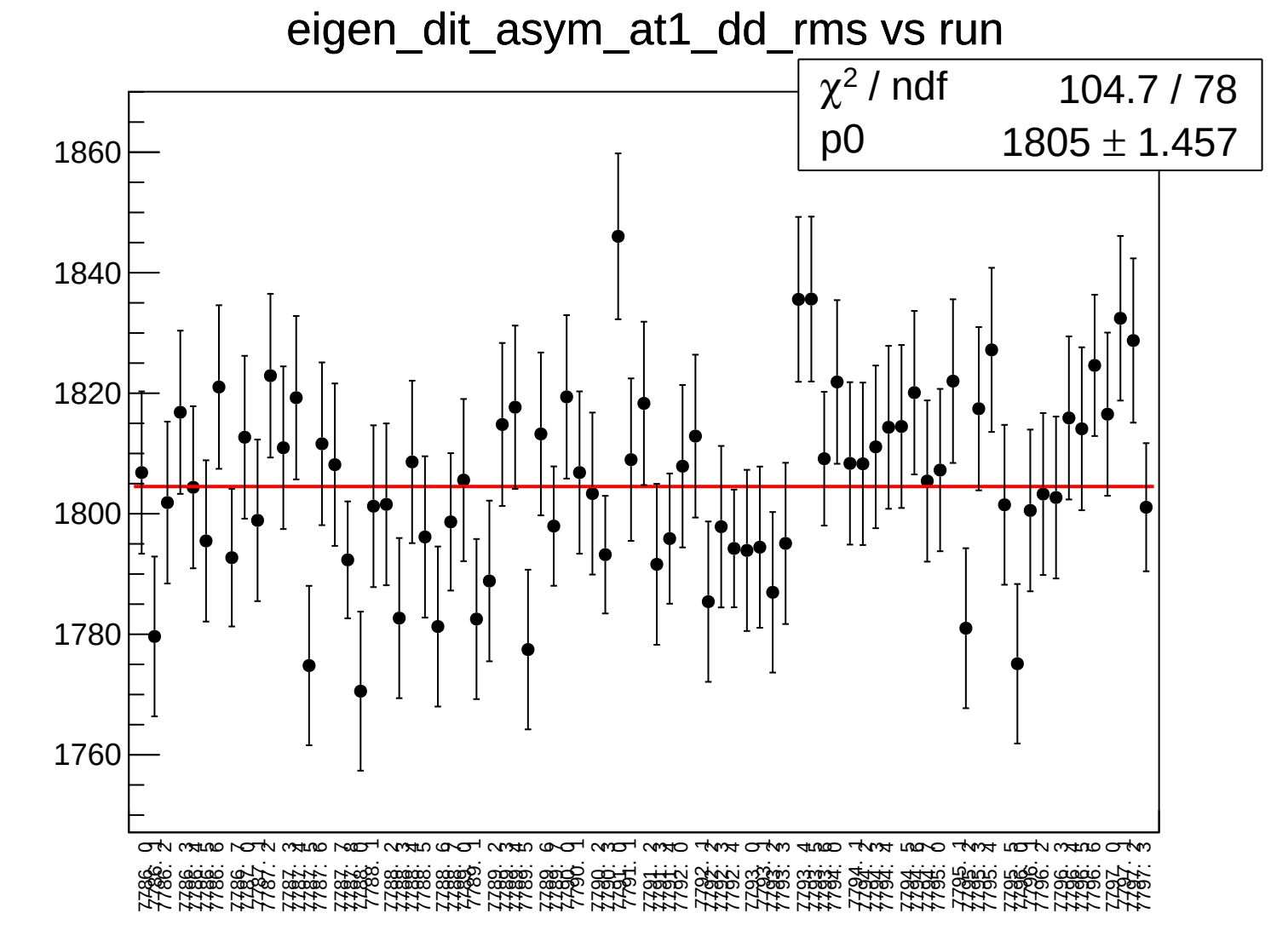

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 69.69 / 78
p0 1918 ± 1114
pull
Entries 79
Mean 8222
Std Dev 0

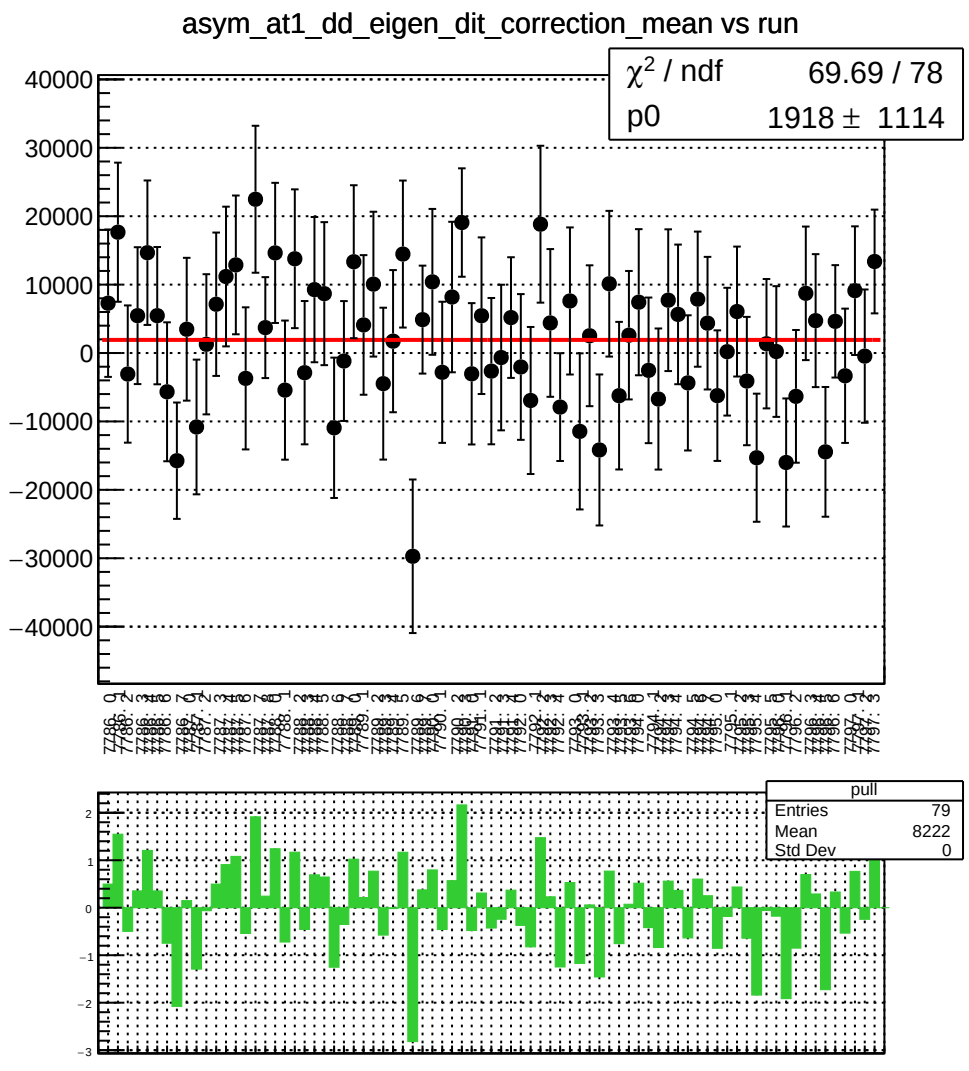

pull1D
Entries 79
Mean −0.0004528
Std Dev 0.9392

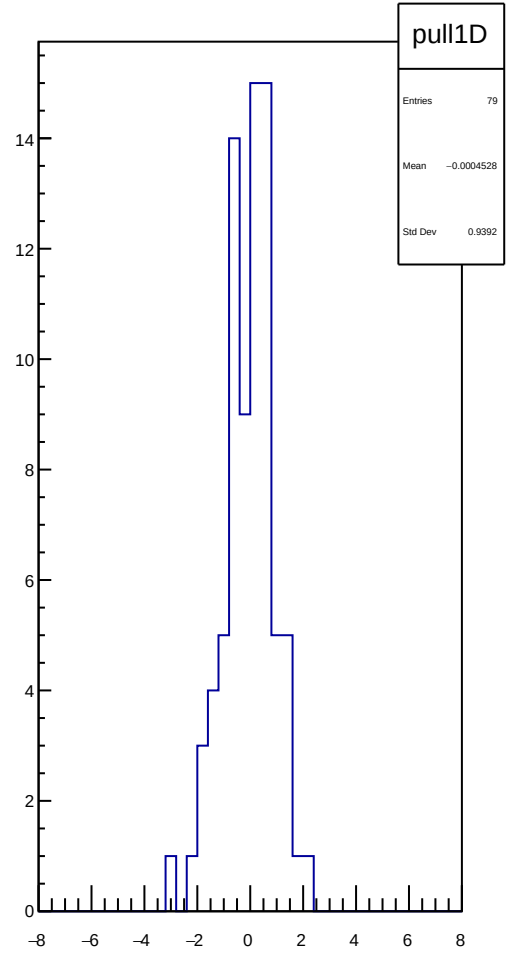

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 4333 / 78
p0 974.1 ± 0.7877
1100
1050
1000
950
900

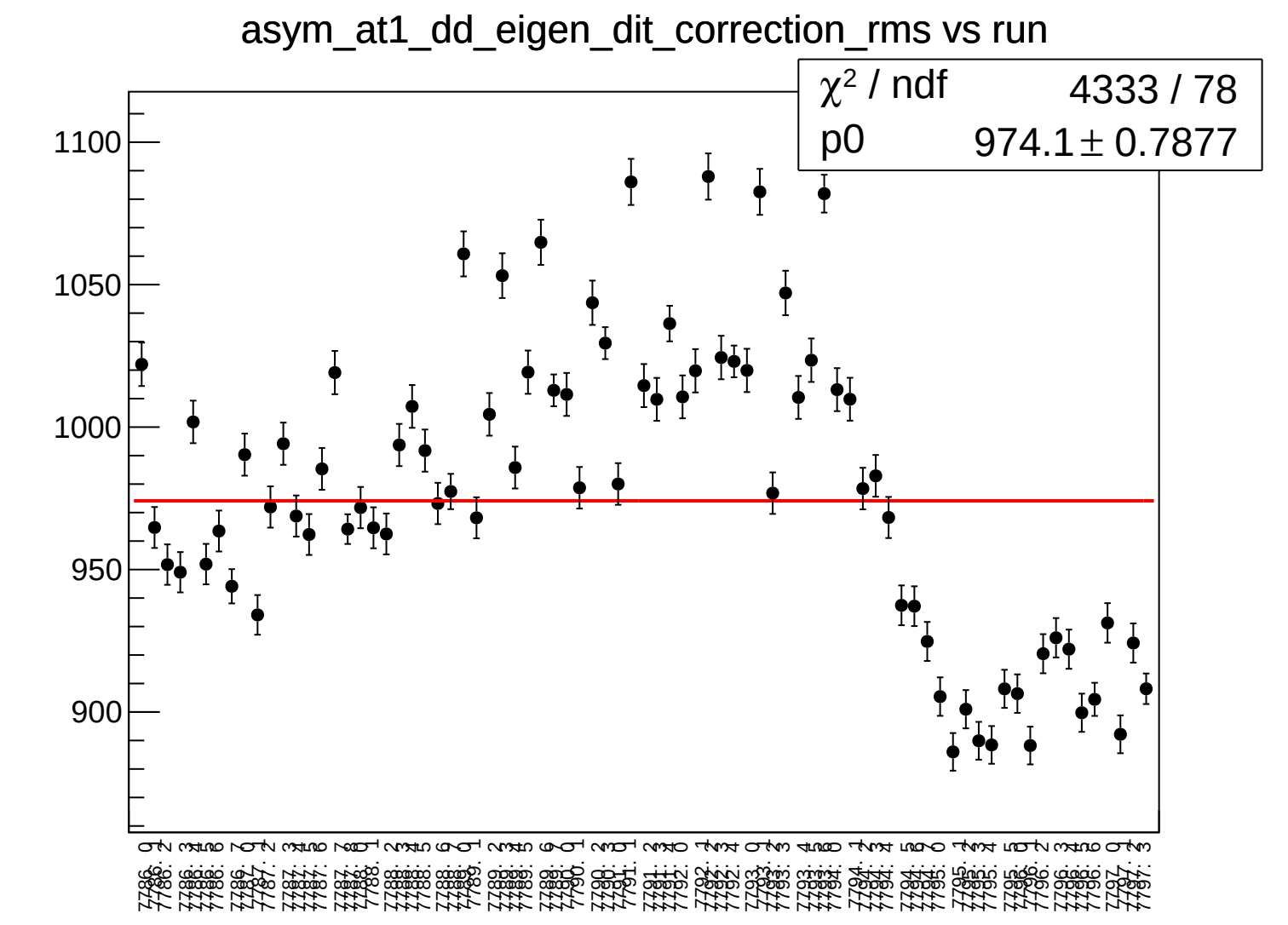

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 56.06 / 78
p0 440.7 ± 2061
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 209.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

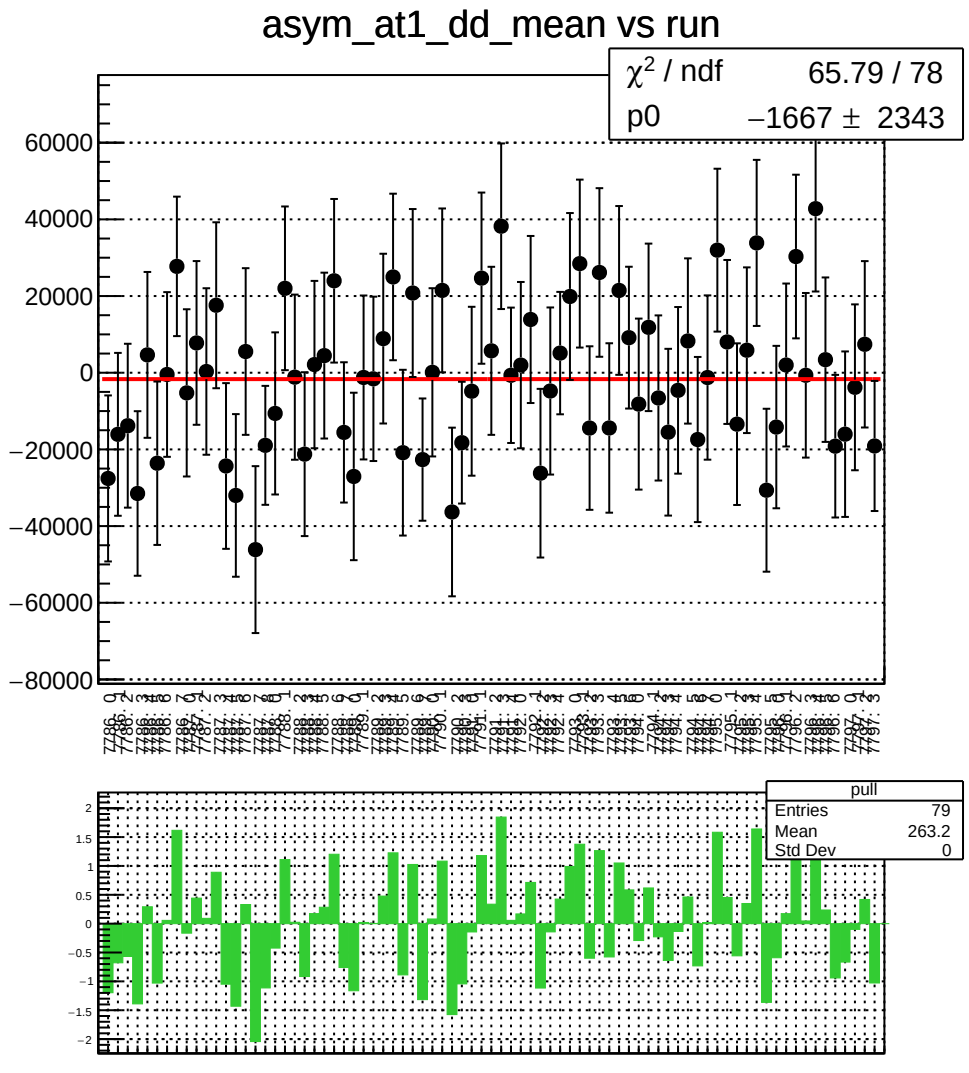

pull1D
Entries 79
Mean 0.01449
Std Dev 0.8422
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

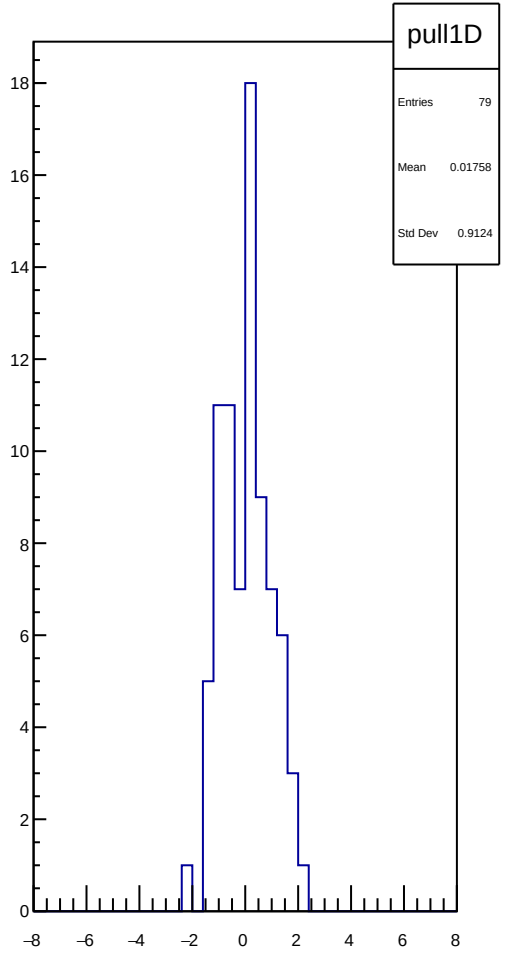

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 104.7 / 78
p0 1805 ± 1.457
1860
1840
1820
1800
1780
1760

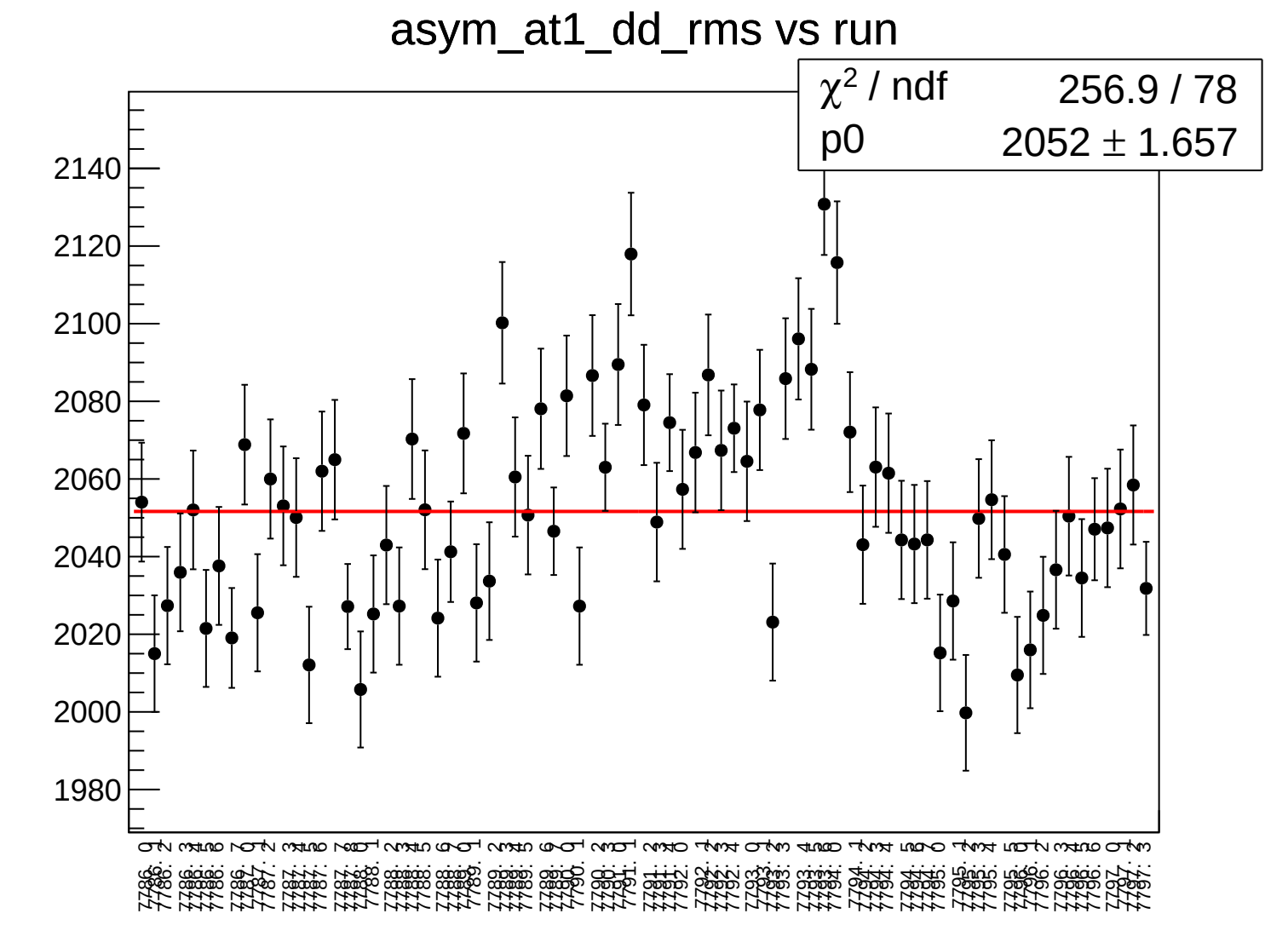

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.69 / 78
p0 1918 ± 1114
pull
Entries 79
Mean 8222
Std Dev 0

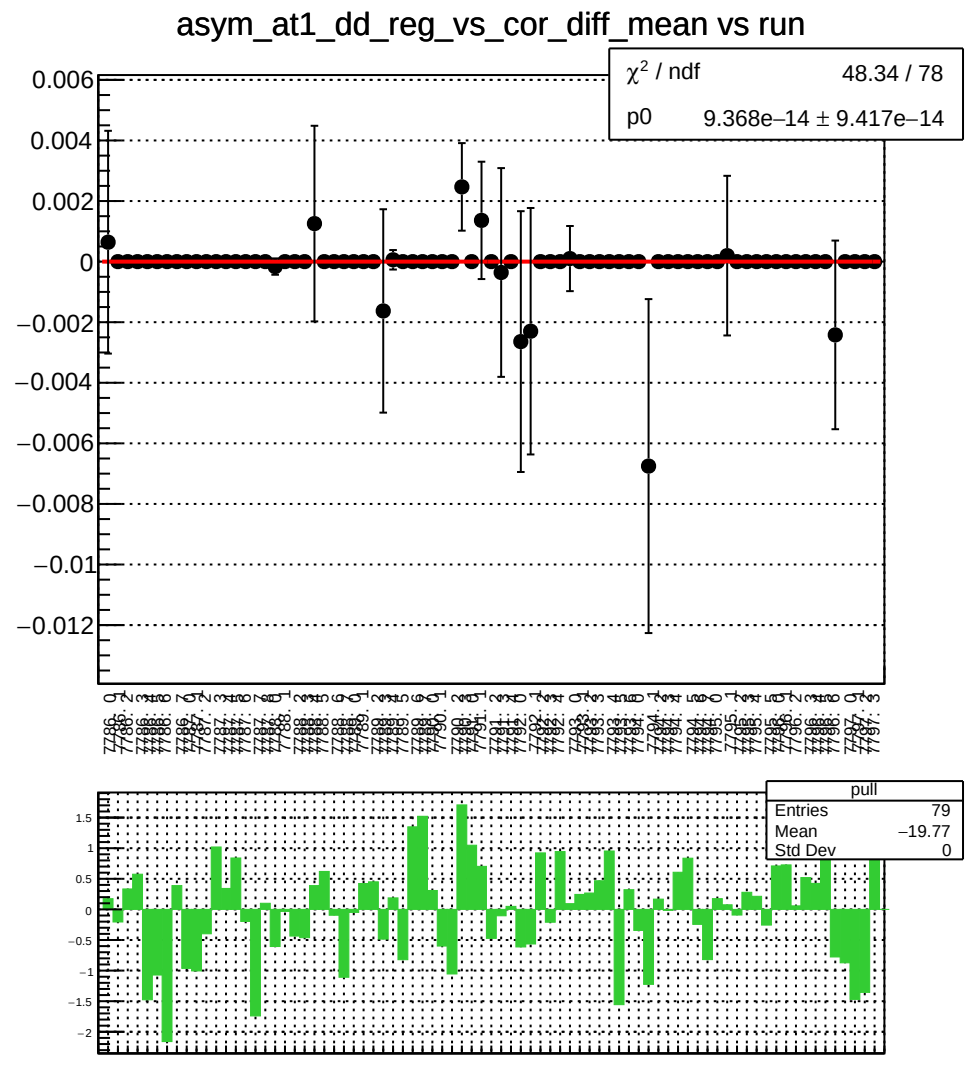

pull1D
Entries 79
Mean −0.0004528
Std Dev 0.9392

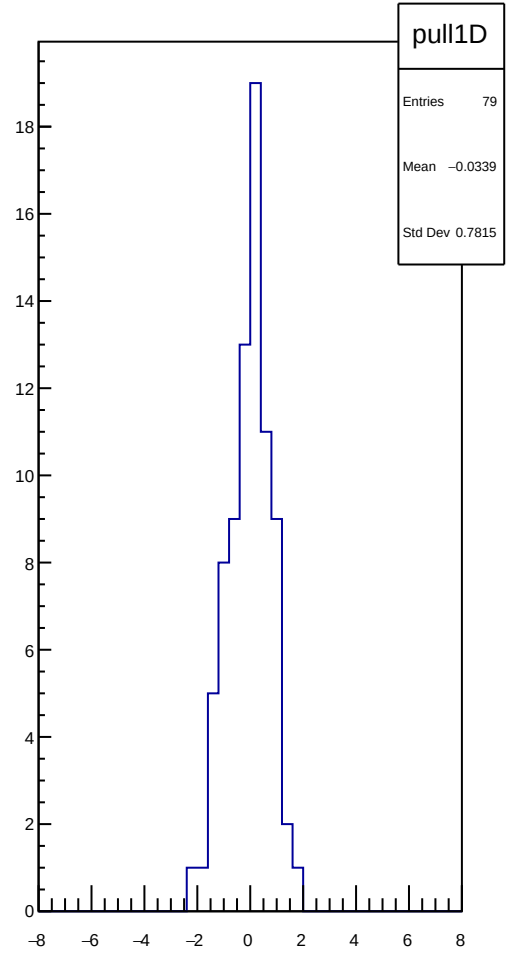

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4333 / 78
p0 974.1 ± 0.7877
1100
1050
1000
950
900

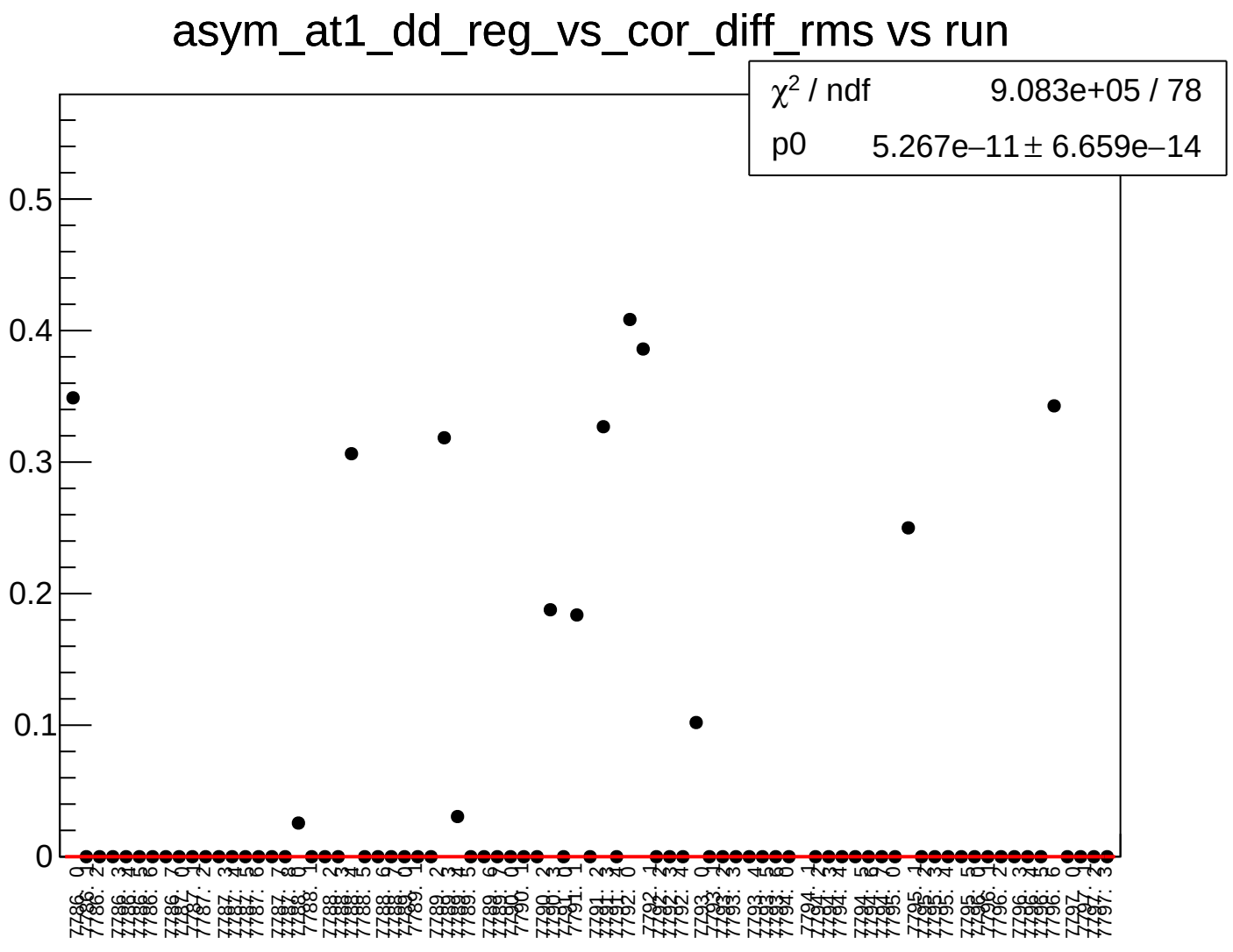

asym_at1_dd_mean vs run
χ² / ndf 65.79 / 78
p0 −1667 ± 2343
pull
Entries 79
Mean 263.2
Std Dev 0

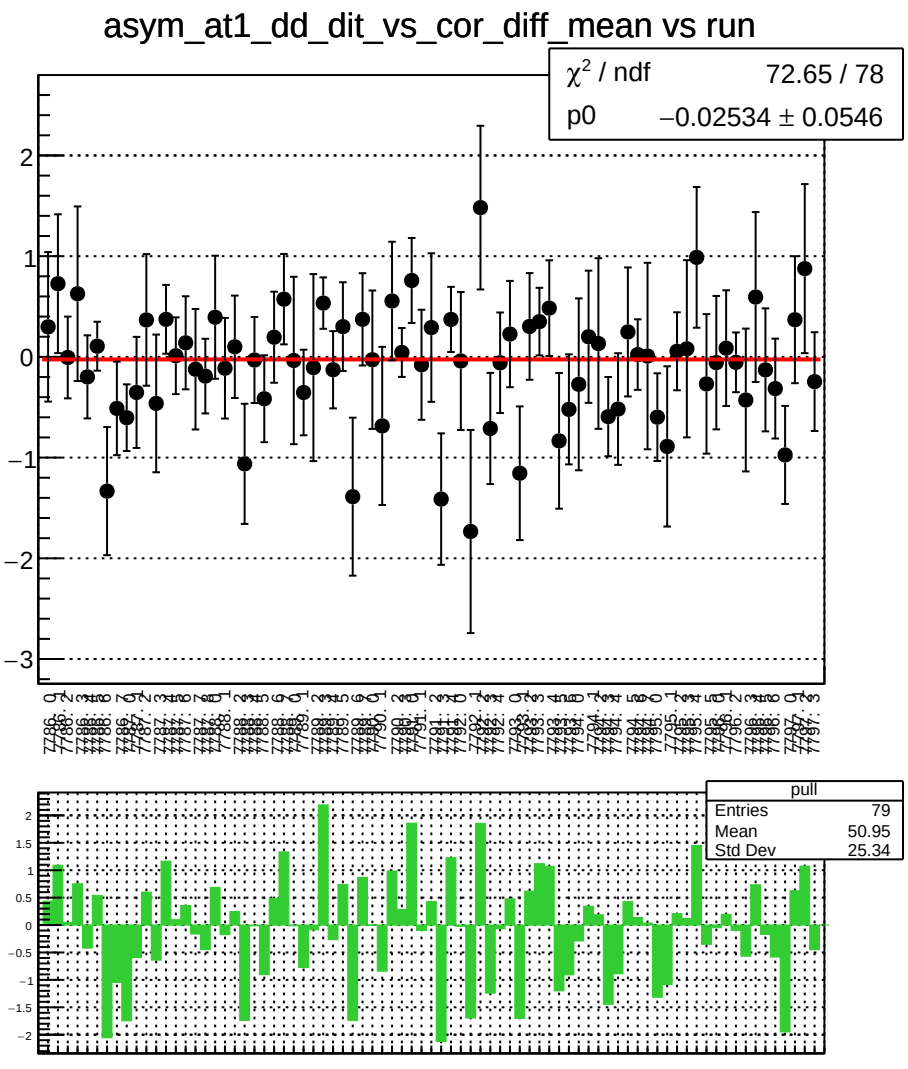

pull1D
Entries 79
Mean 0.01758
Std Dev 0.9124

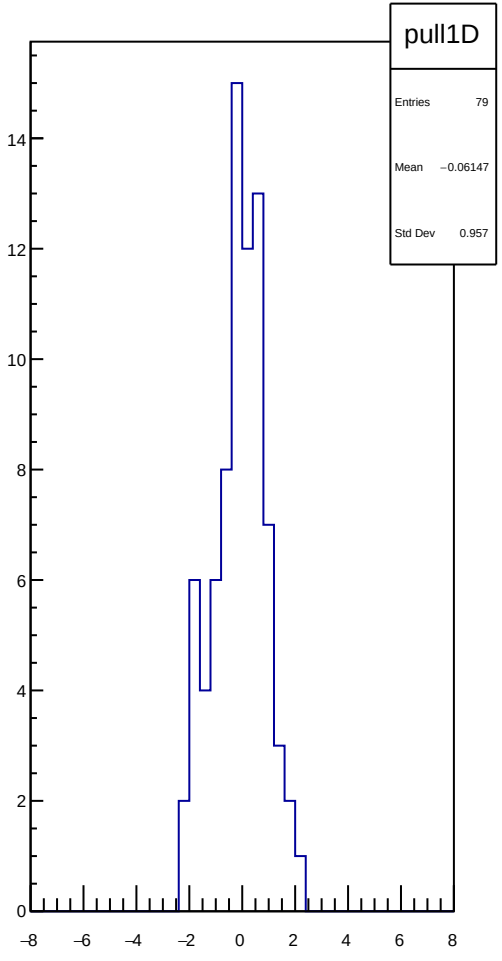

asym_at1_dd_rms vs run
χ^2 / ndf 256.9 / 78
p0 2052 ± 1.657
2140
2120
2100
2080
2060
2040
2020
2000
1980

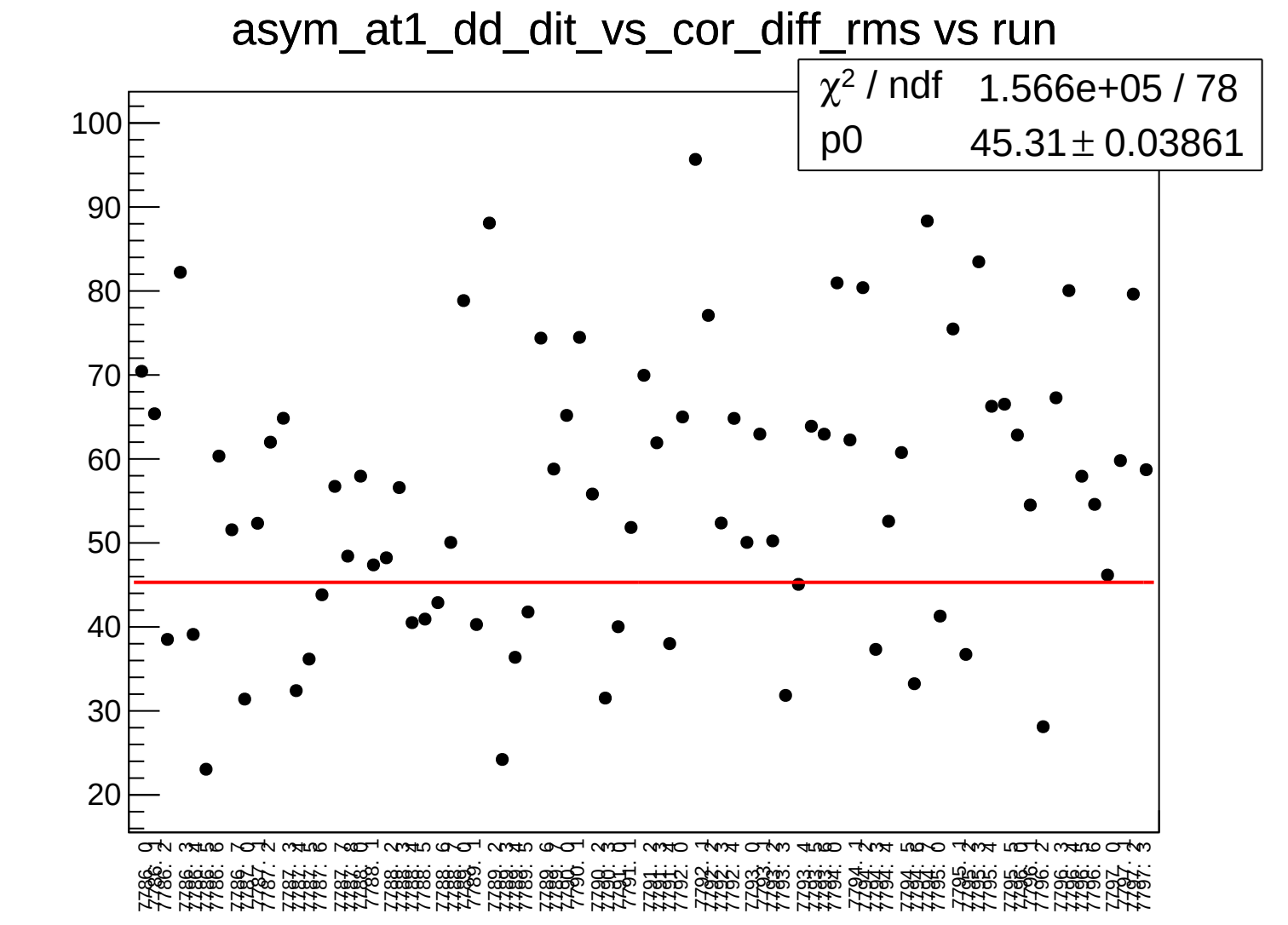

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 48.34 / 78
p0 9.368e−14 ± 9.417e−14
pull
Entries 79
Mean −19.77
Std Dev 0

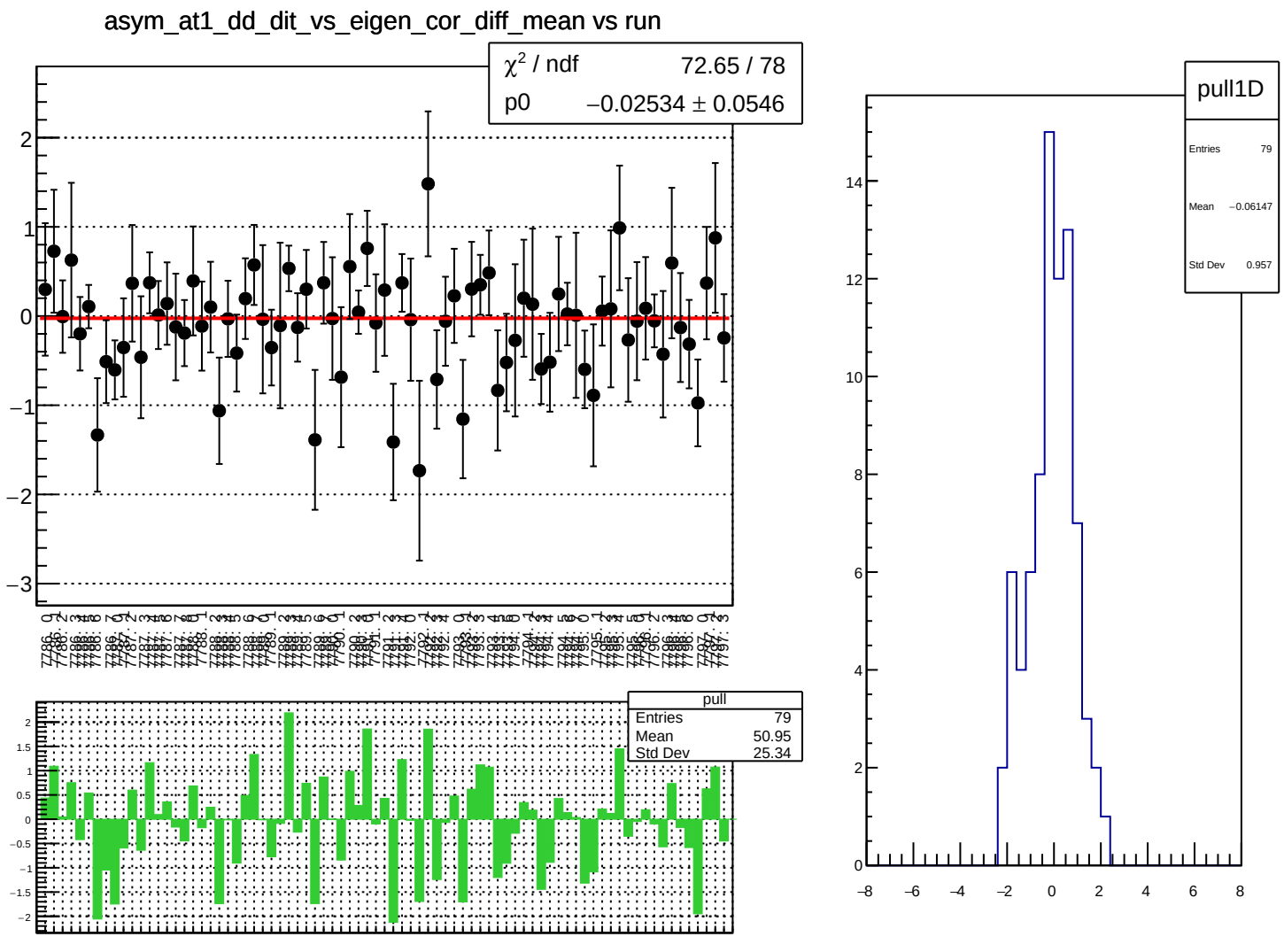

pull1D
Entries 79
Mean −0.0339
Std Dev 0.7815

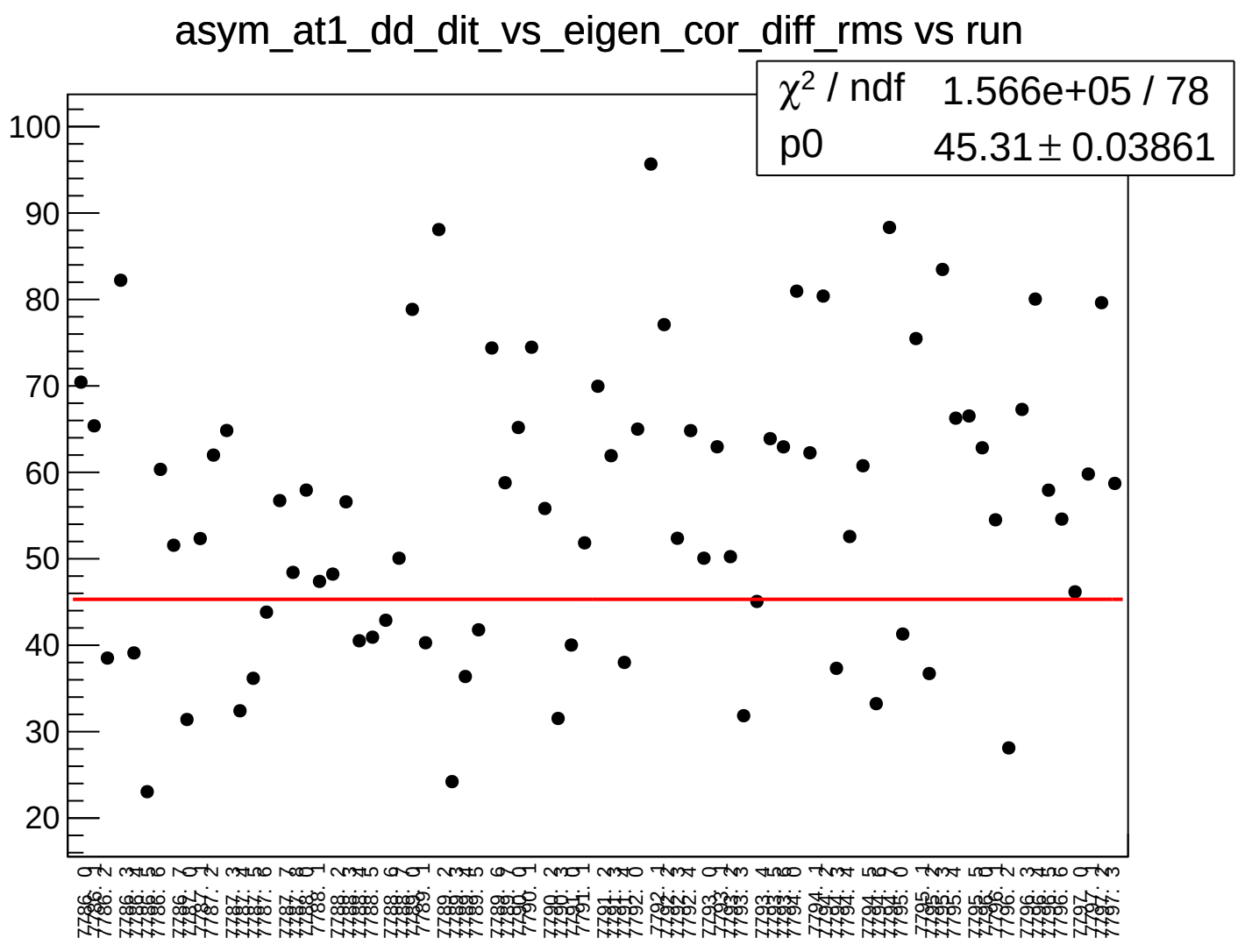

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.083e+05 / 78
p0 5.267e−11 ± 6.659e−14
0.5
0.4
0.3
0.2
0.1
0

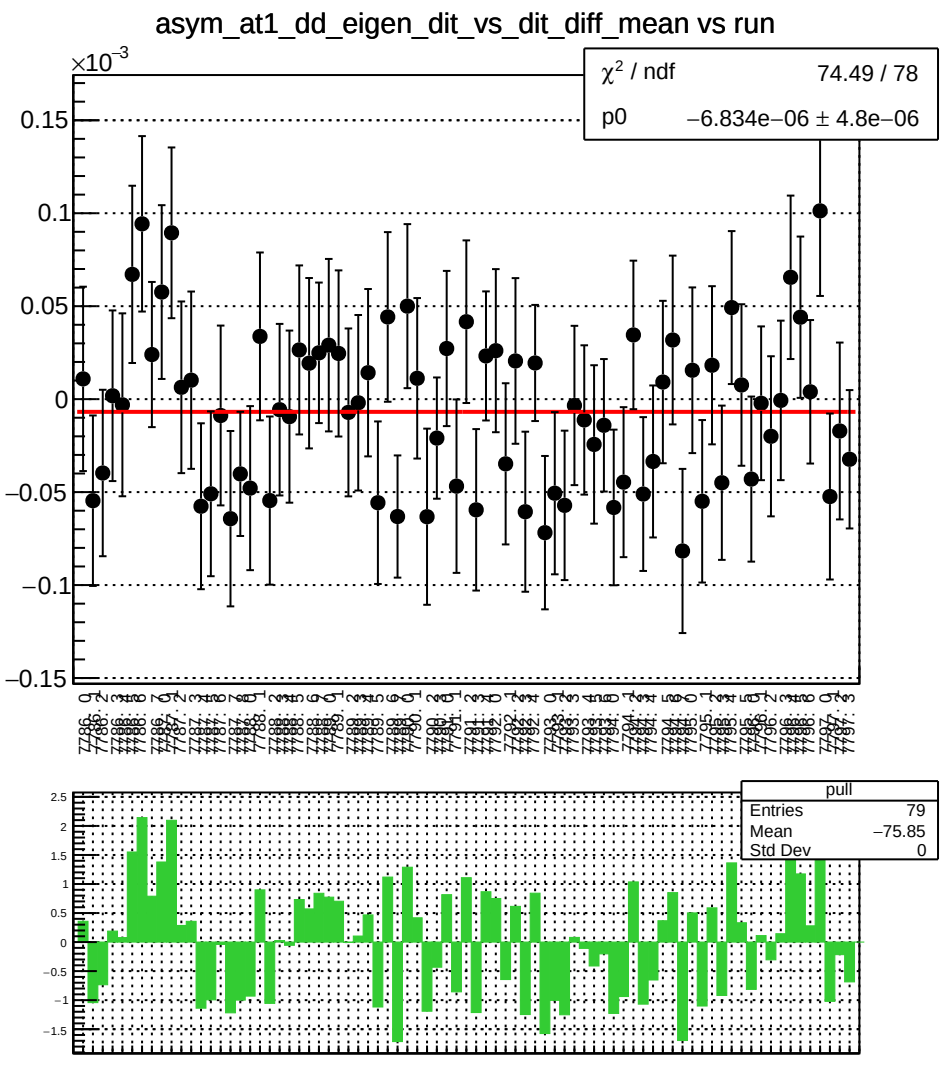

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.65 / 78
p0 −0.02534 ± 0.0546
pull
Entries 79
Mean 50.95
Std Dev 25.34

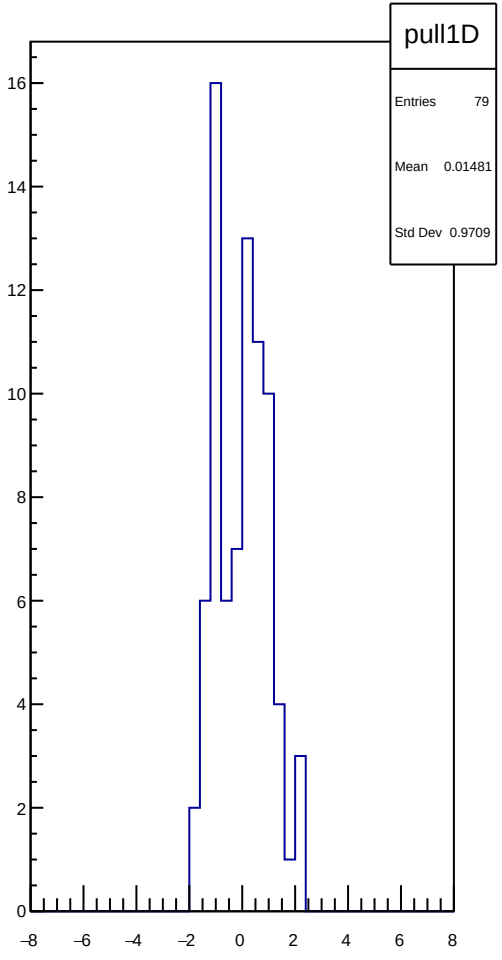

pull1D
Entries 79
Mean −0.06147
Std Dev 0.957

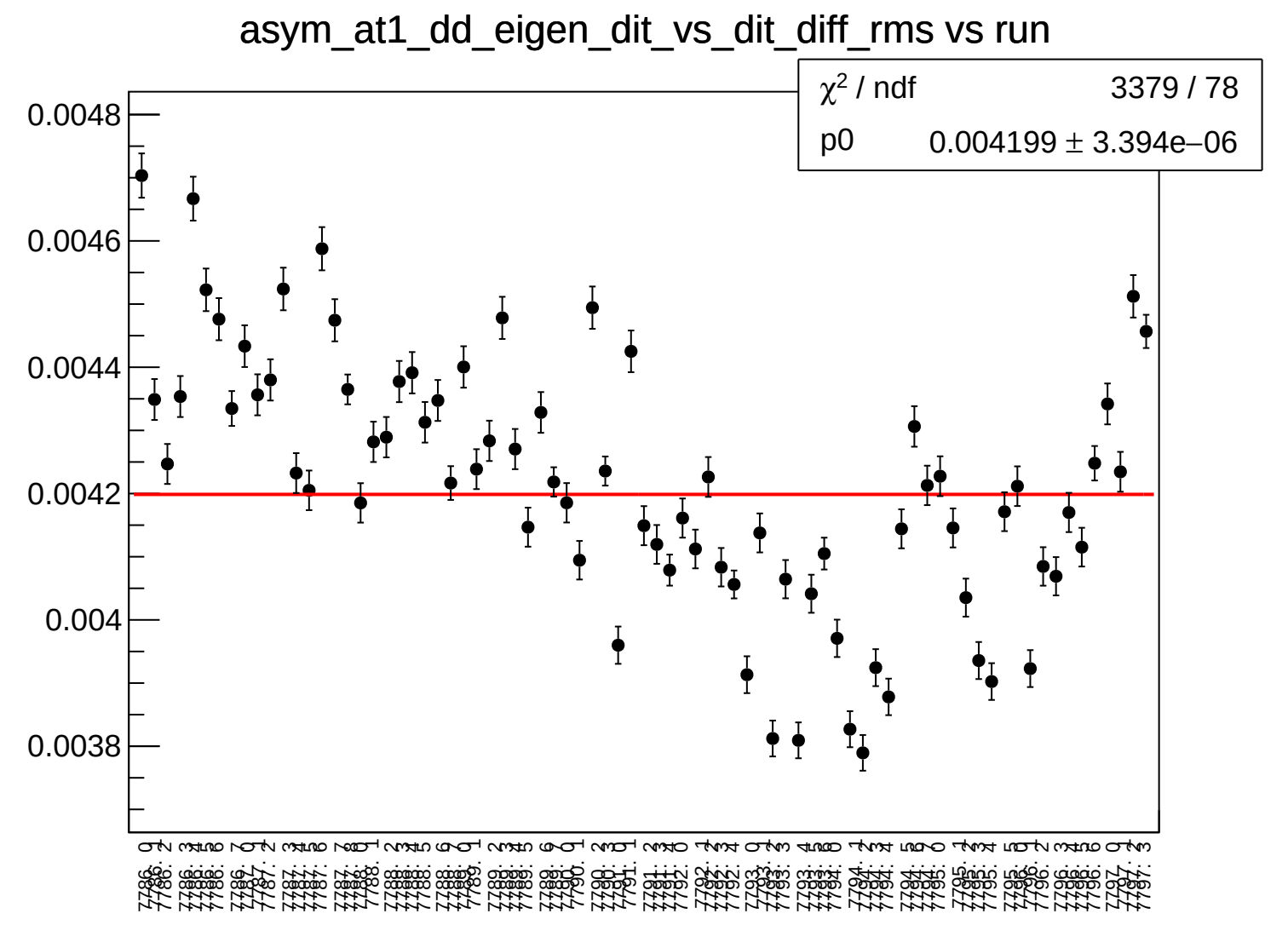

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.566e+05 / 78
p0 45.31 ± 0.03861
100
90
80
70
60
50
40
30
20

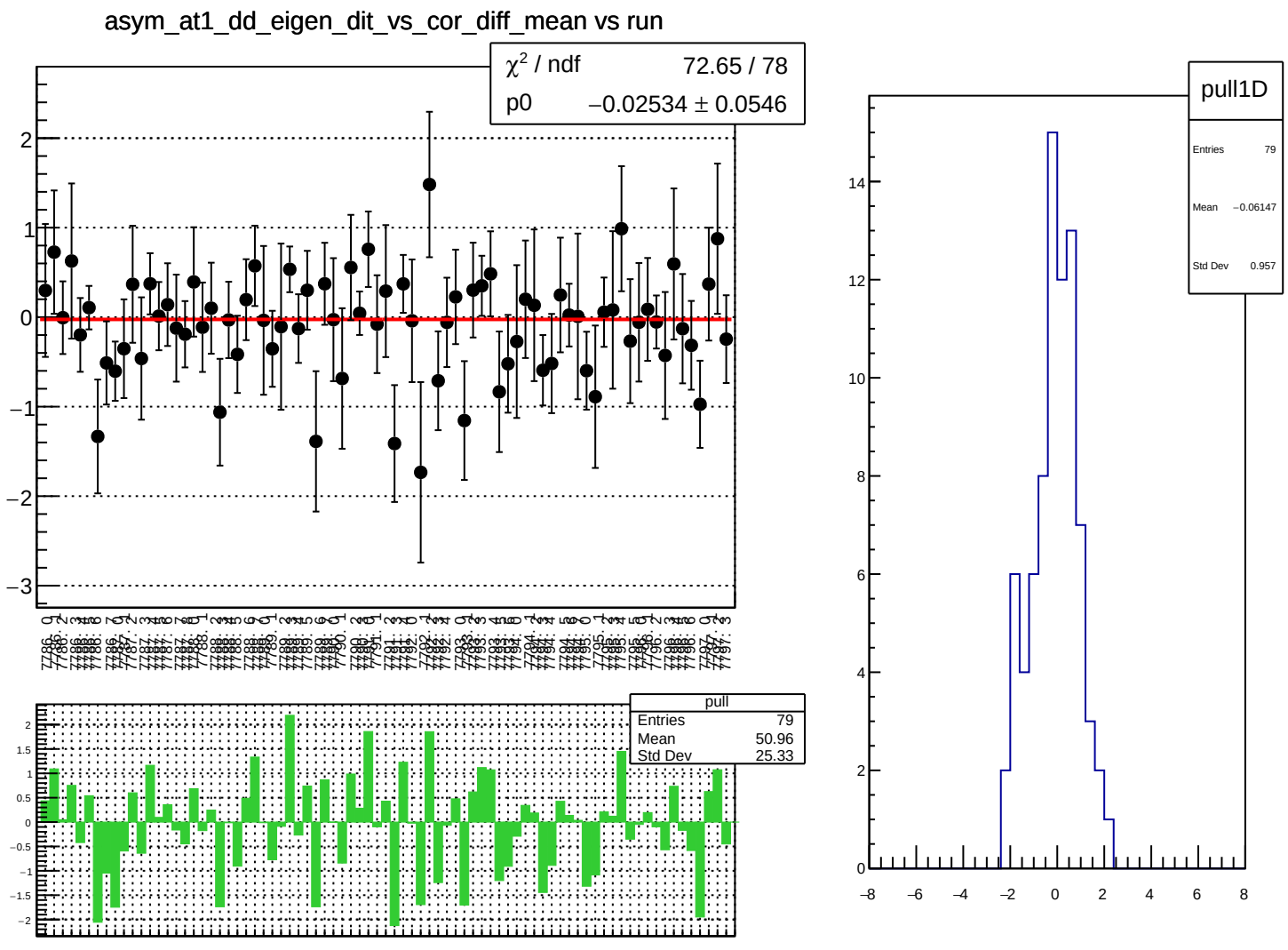

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.65 / 78
p0 −0.02534 ± 0.0546
pull
Entries 79
Mean 50.95
Std Dev 25.34
pull1D
Entries 79
Mean −0.06147
Std Dev 0.957

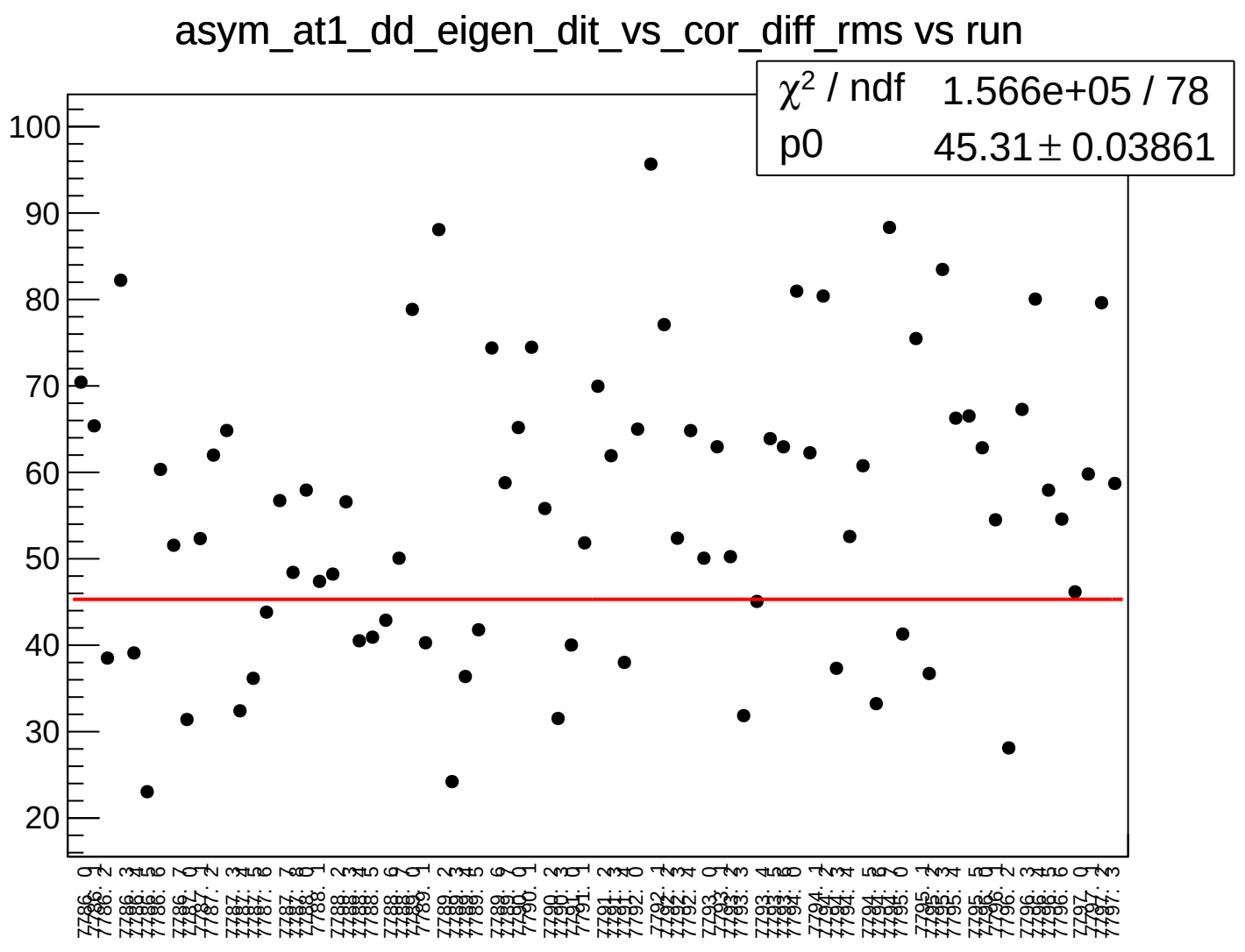

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.566e+05 / 78
p0 45.31 ± 0.03861
100
90
80
70
60
50
40
30
20

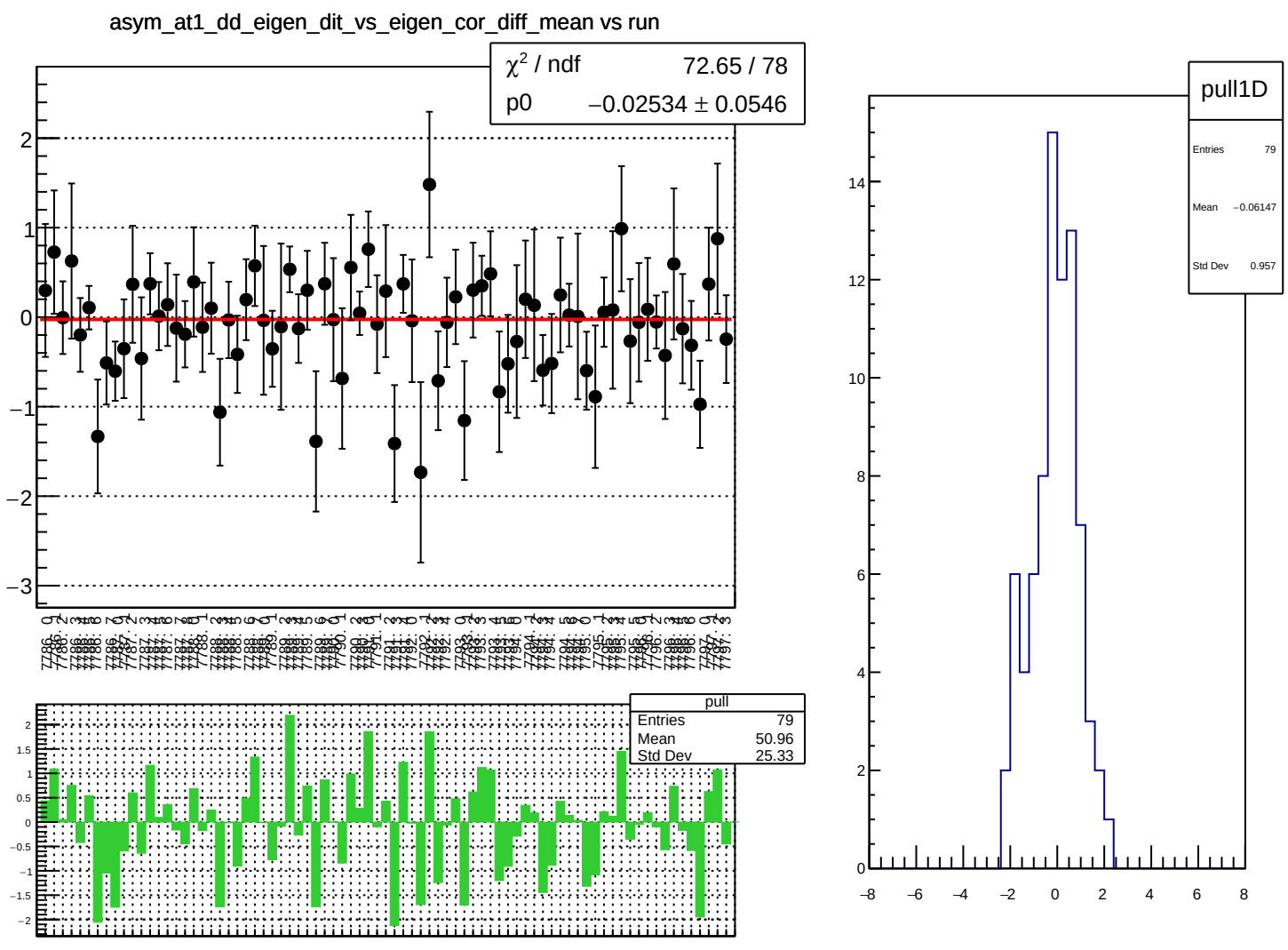

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.49 / 78
p0 −6.834e−06 ± 4.8e−06
pull
Entries 79
Mean −75.85
Std Dev 0

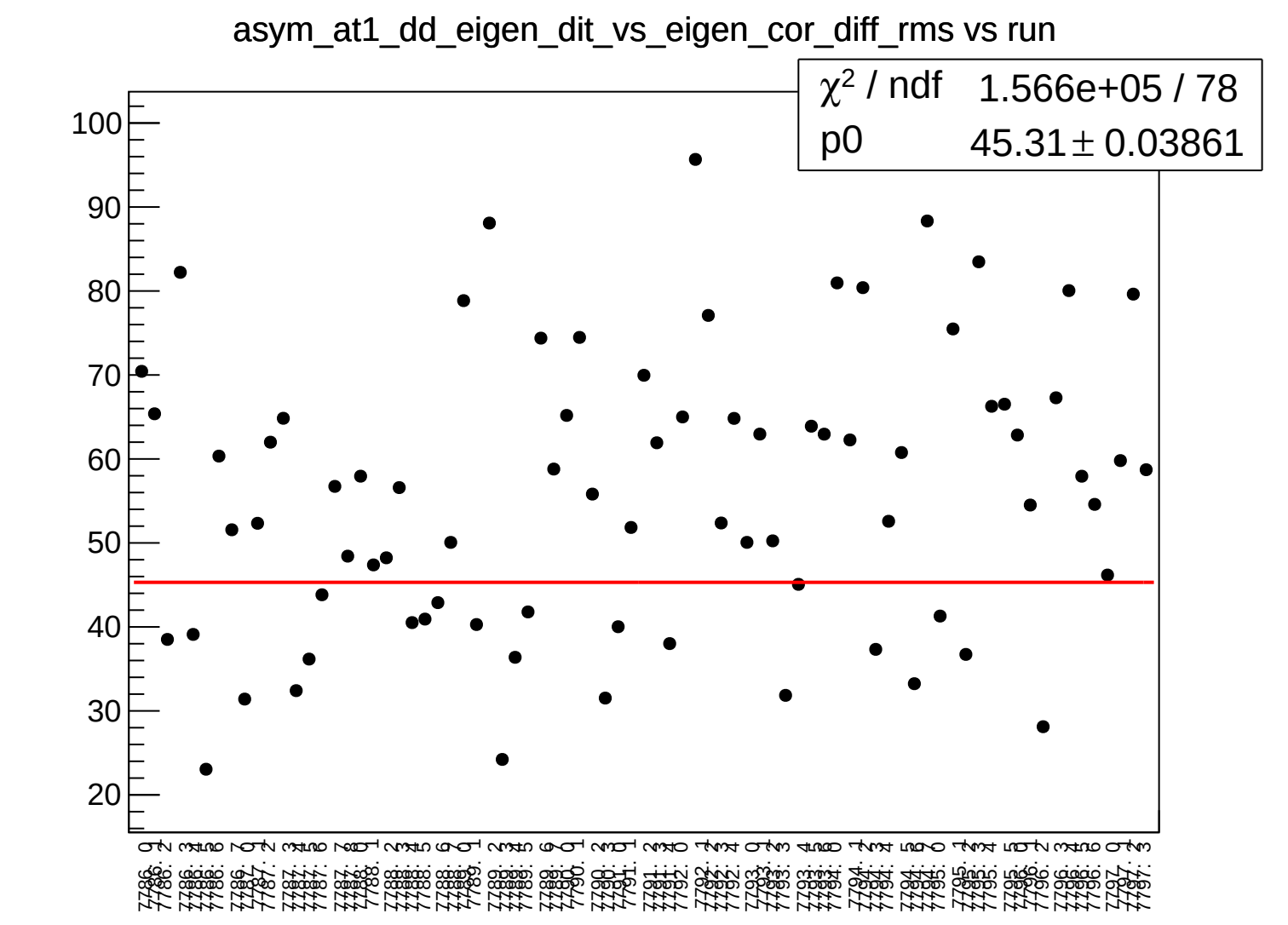

pull1D
Entries 79
Mean 0.01481
Std Dev 0.9709

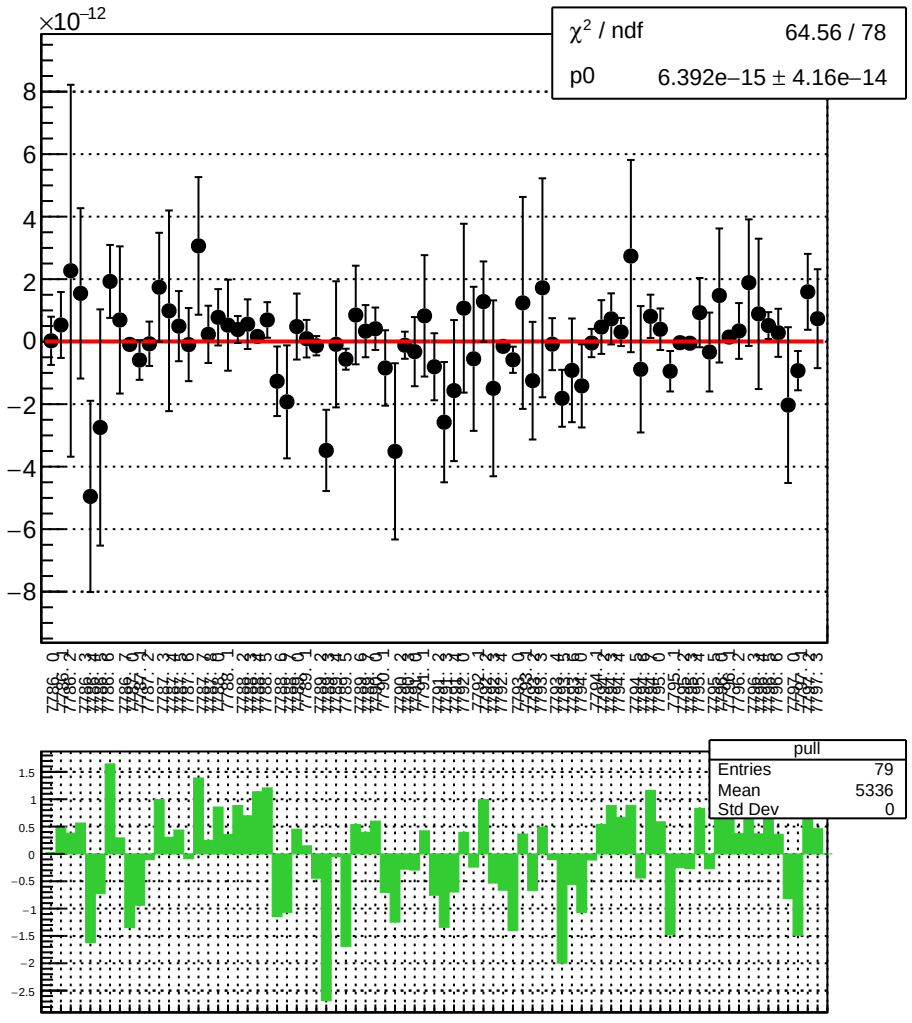

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3379 / 78
p0 0.004199 ± 3.394e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

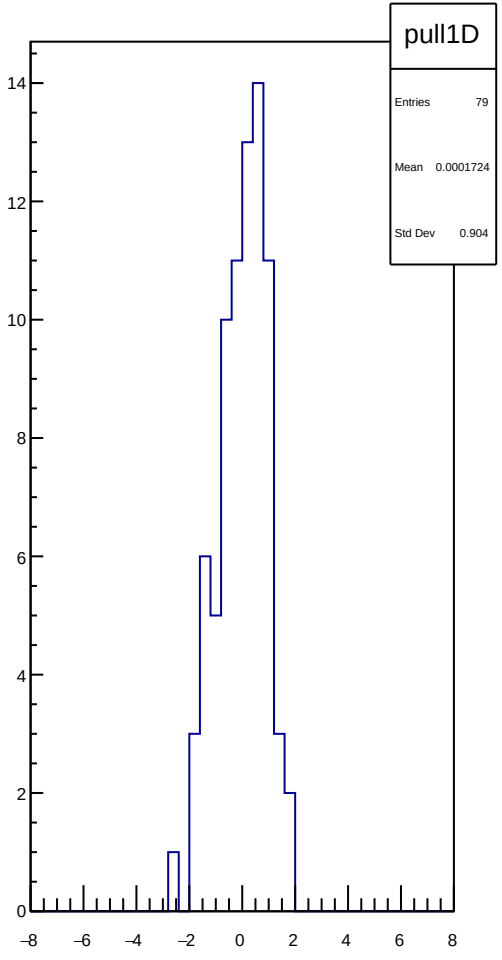

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.65 / 78
p0 −0.02534 ± 0.0546
pull
Entries 79
Mean 50.96
Std Dev 25.33
pull1D
Entries 79
Mean −0.06147
Std Dev 0.957

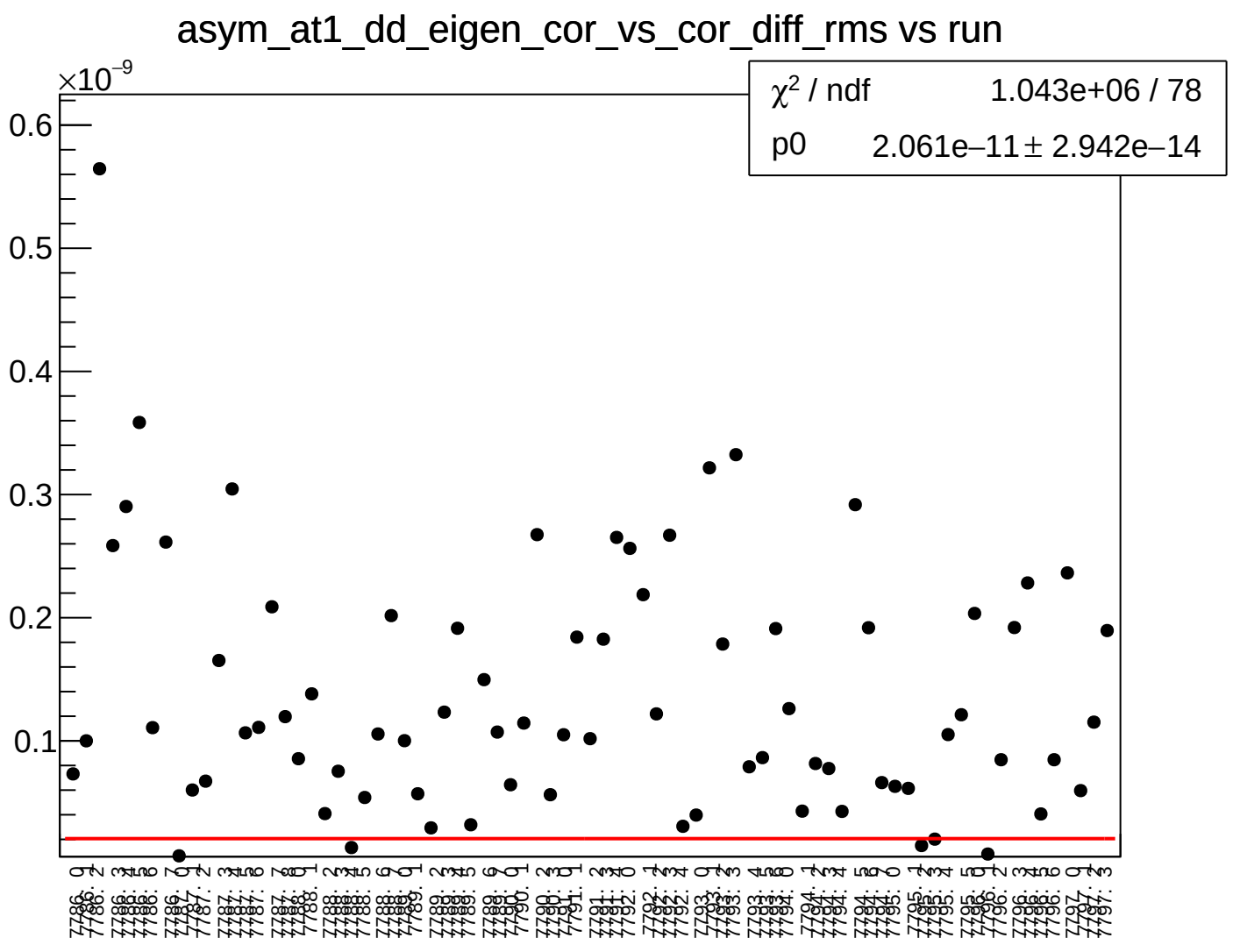

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.566e+05 / 78
p0 45.31 ± 0.03861
100
90
80
70
60
50
40
30
20

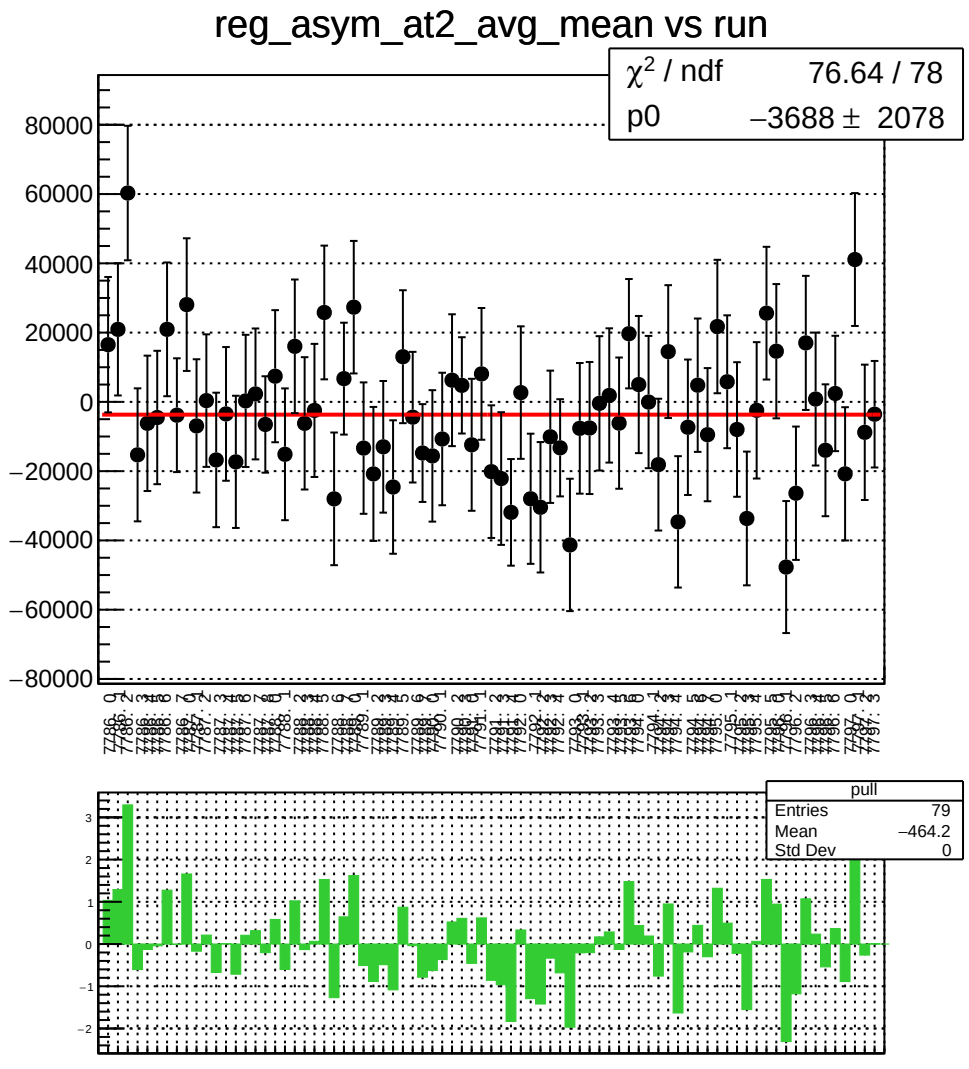

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.65 / 78
p0 −0.02534 ± 0.0546
pull
Entries 79
Mean 50.96
Std Dev 25.33
pull1D
Entries 79
Mean −0.06147
Std Dev 0.957

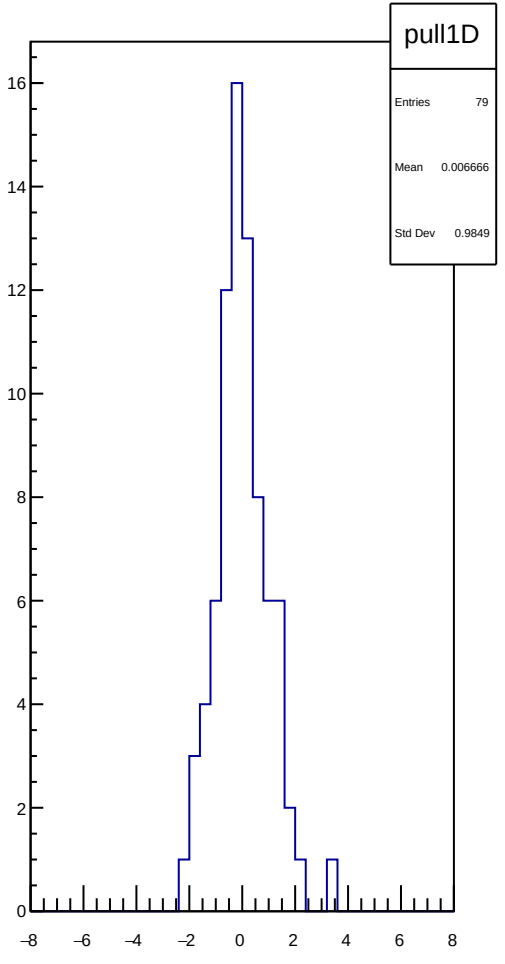

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.566e+05 / 78
p0 45.31 ± 0.03861
100
90
80
70
60
50
40
30
20

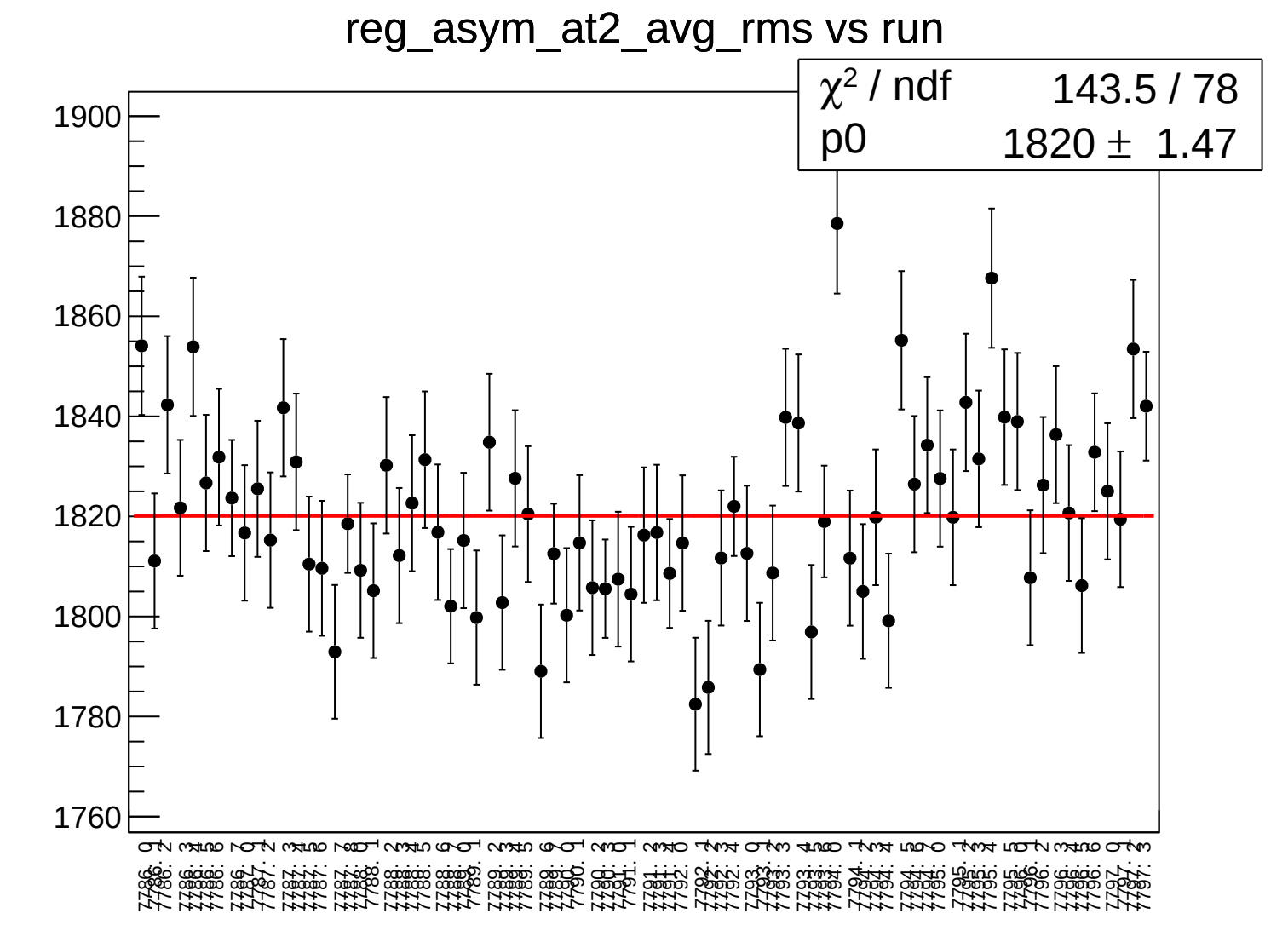

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.56 / 78
p0 6.392e−15 ± 4.16e−14
pull
Entries 79
Mean 5336
Std Dev 0

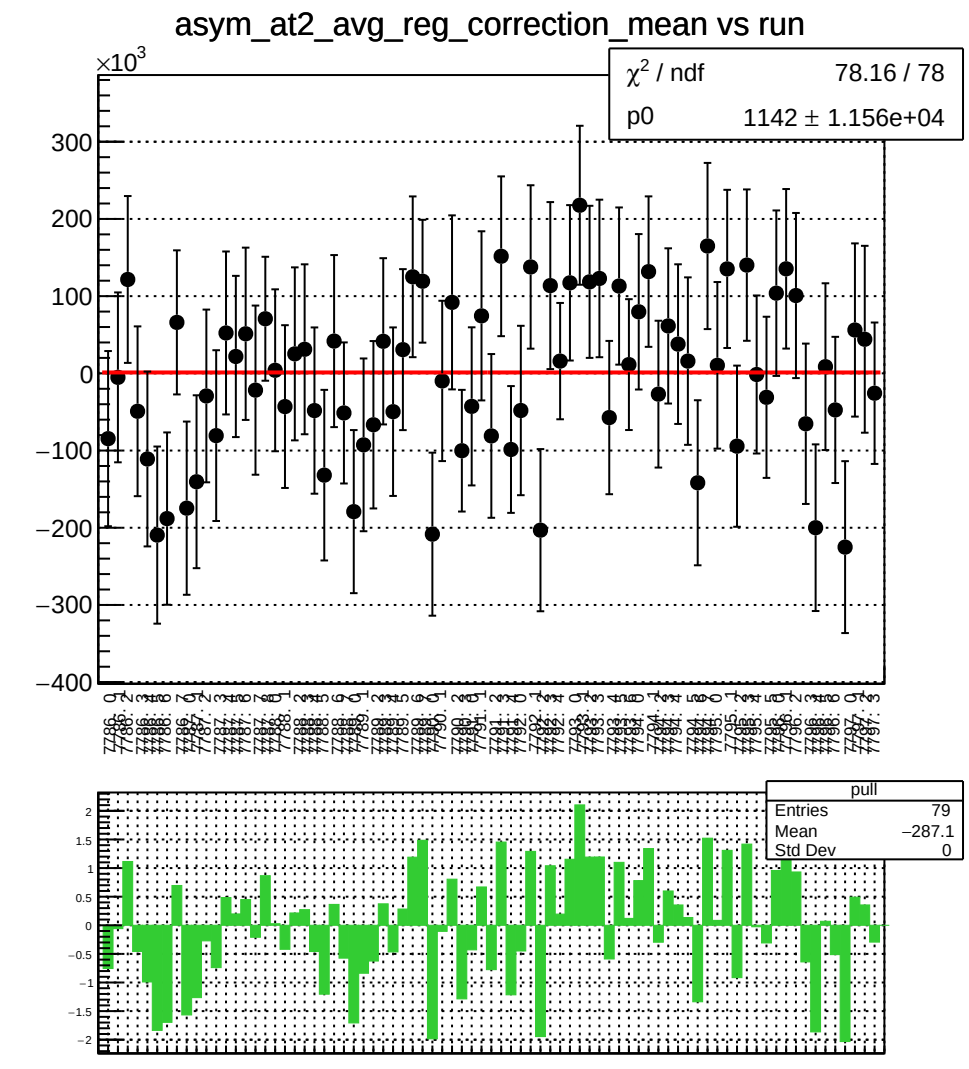

pull1D
Entries 79
Mean 0.0001724
Std Dev 0.904

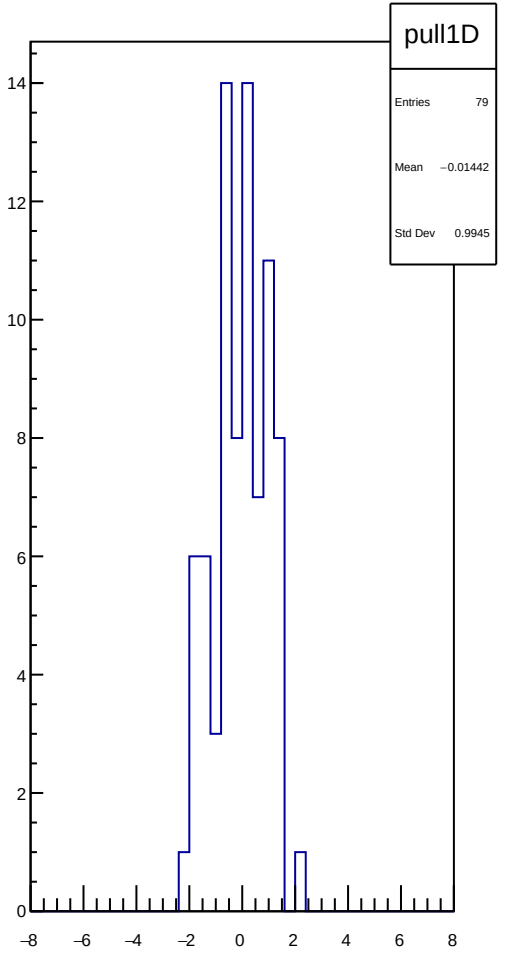

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.043e+06 / 78
p0 2.061e−11 ± 2.942e−14
0.6
0.5
0.4
0.3
0.2
0.1

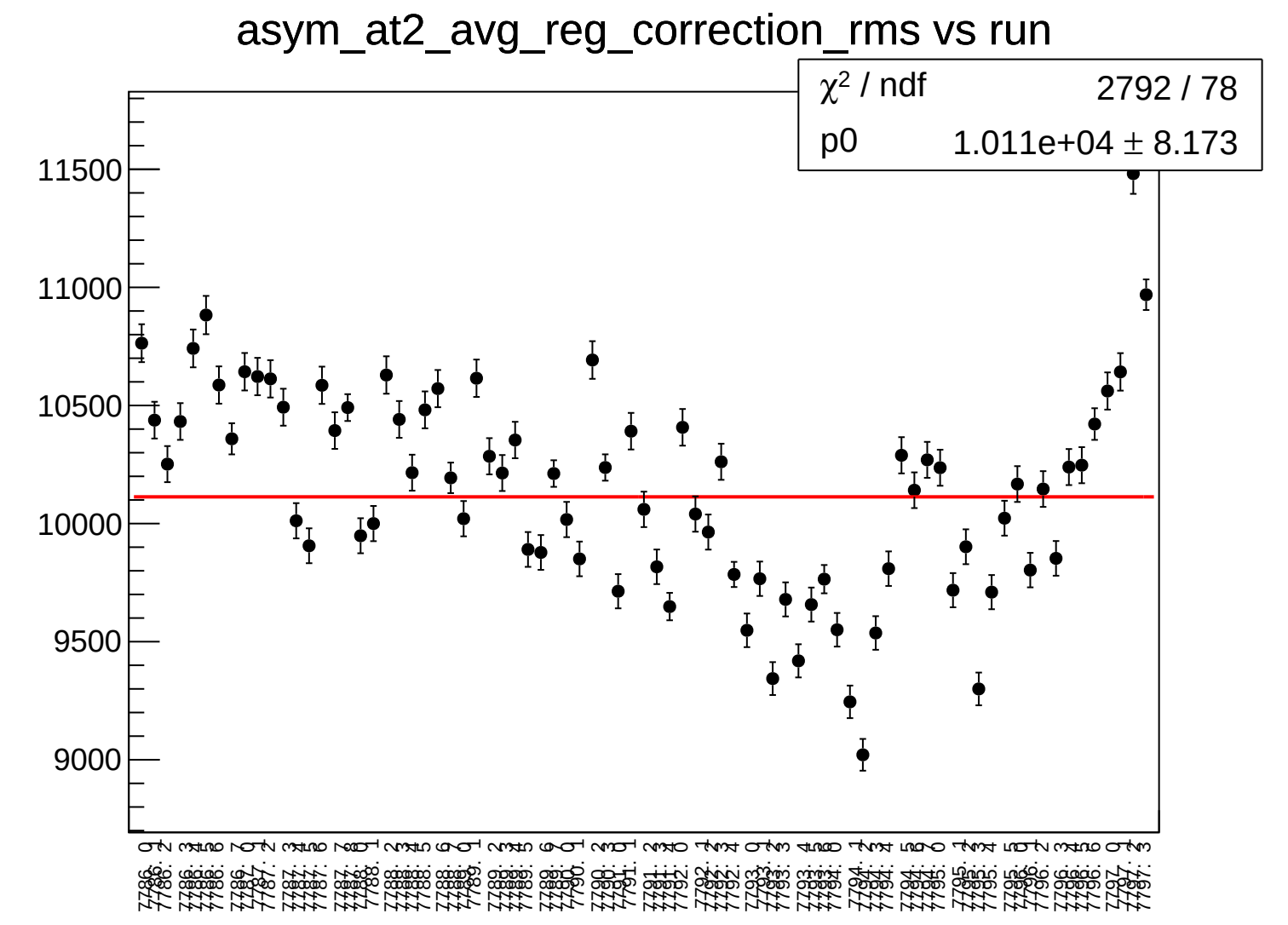

reg_asym_at2_avg_mean vs run
χ² / ndf 76.64 / 78
p0 −3688 ± 2078
pull
Entries 79
Mean −464.2
Std Dev 0

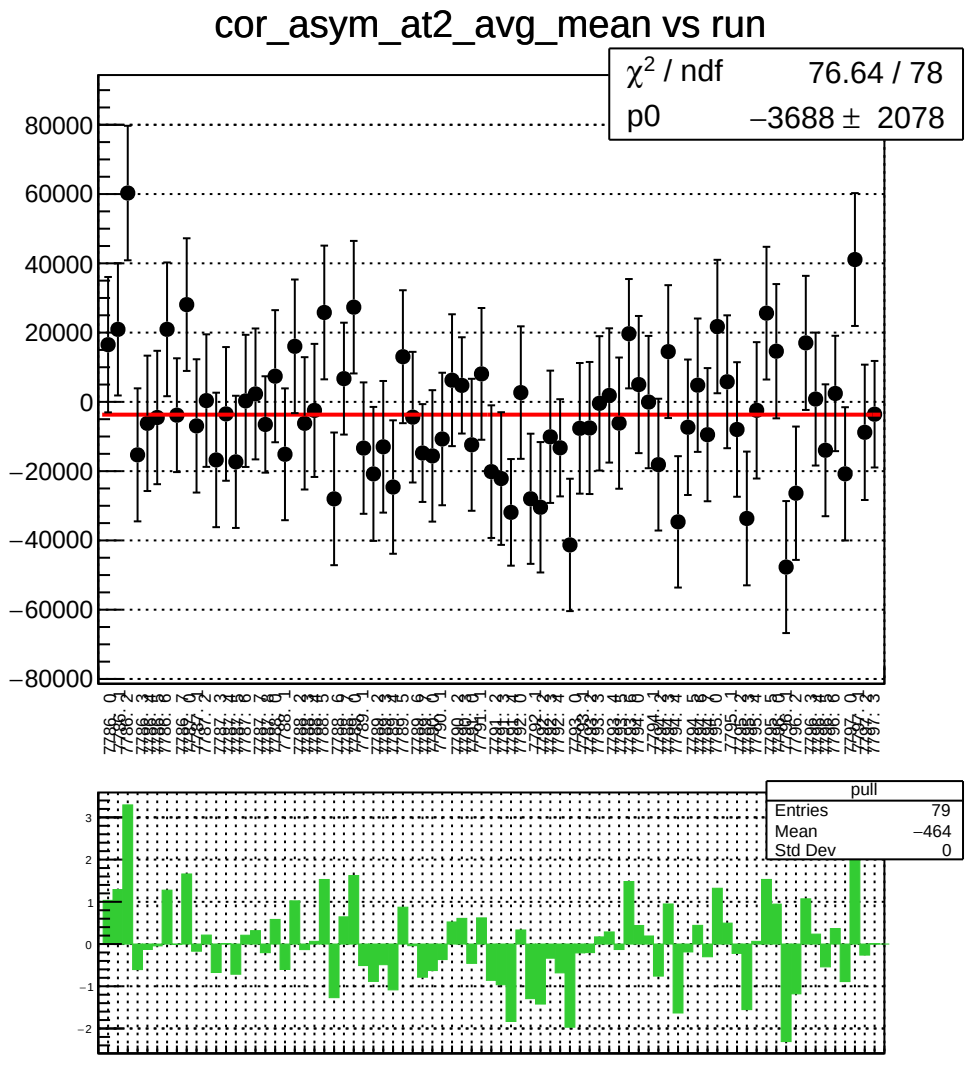

pull1D
Entries 79
Mean 0.006666
Std Dev 0.9849

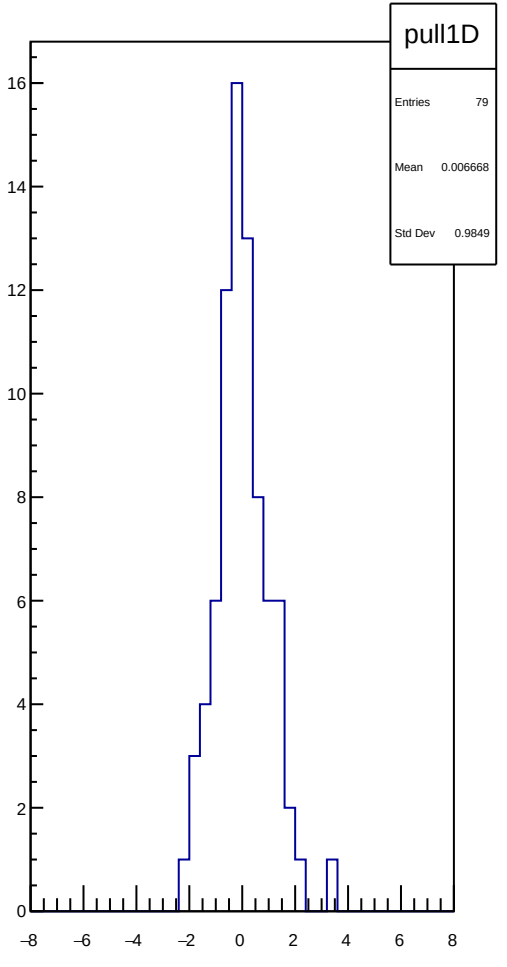

reg_asym_at2_avg_rms vs run
χ² / ndf 143.5 / 78
p0 1820 ± 1.47
1900
1880
1860
1840
1820
1800
1780
1760

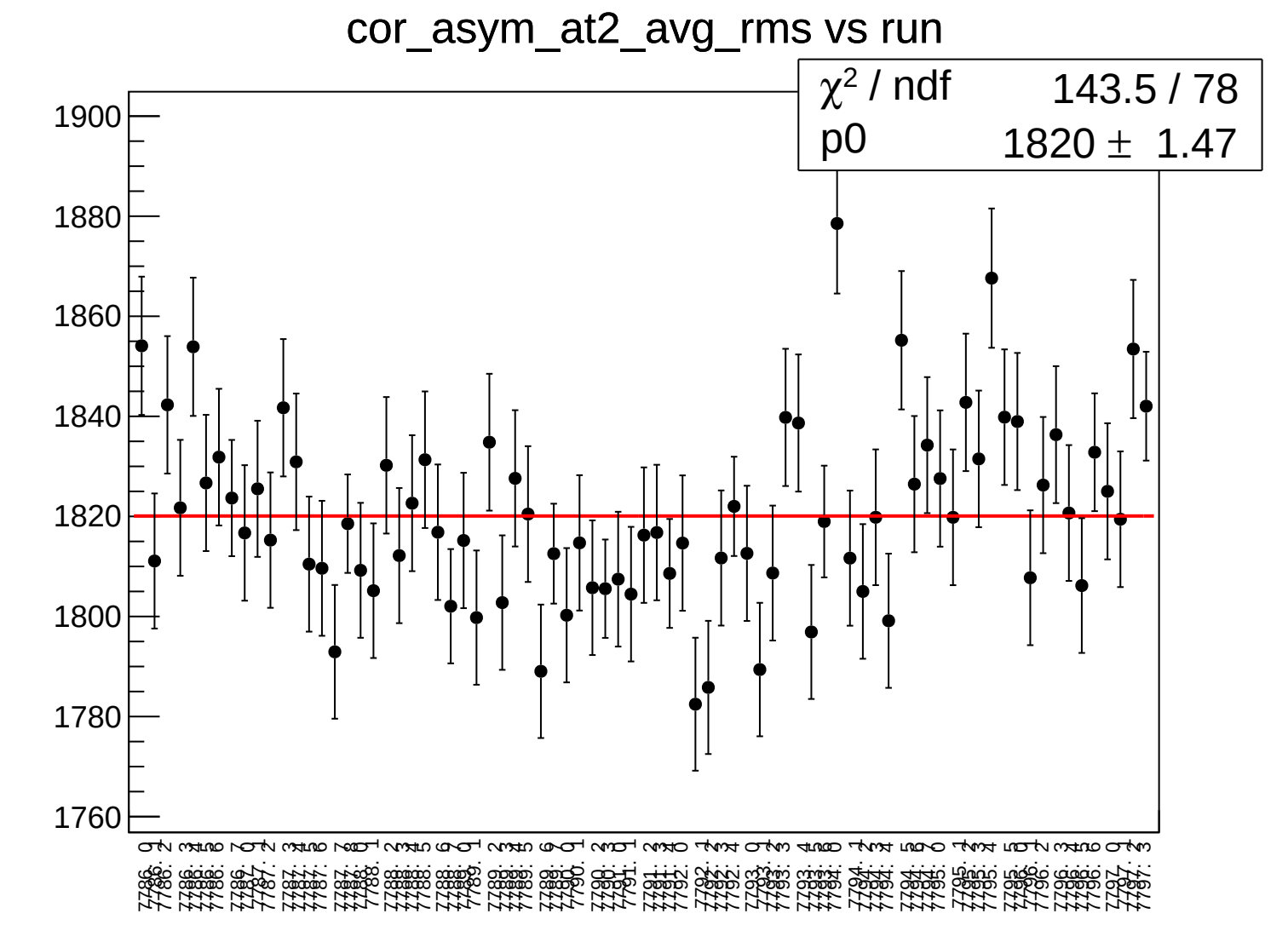

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.16 / 78
p0 1142 ± 1.156e+04
pull
Entries 79
Mean −287.1
Std Dev 0

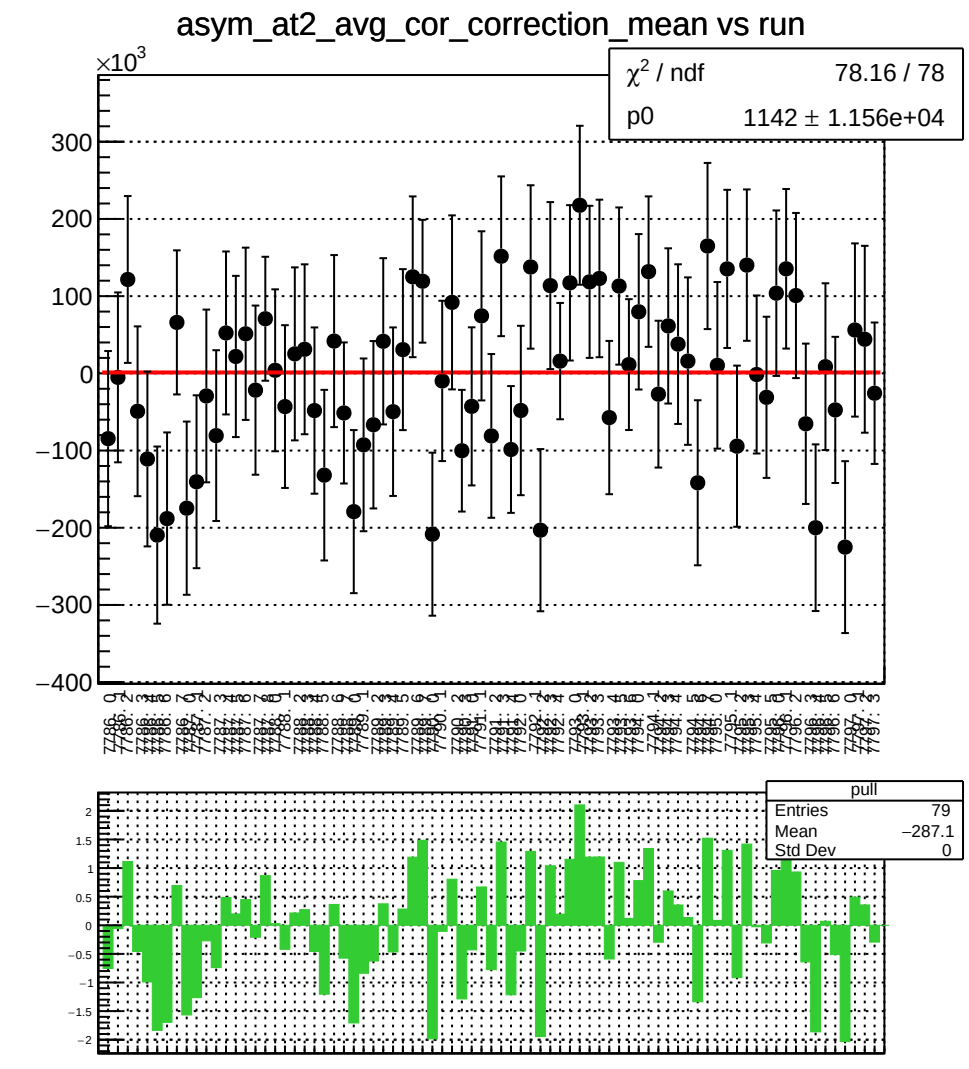

pull1D
Entries 79
Mean −0.01442
Std Dev 0.9945

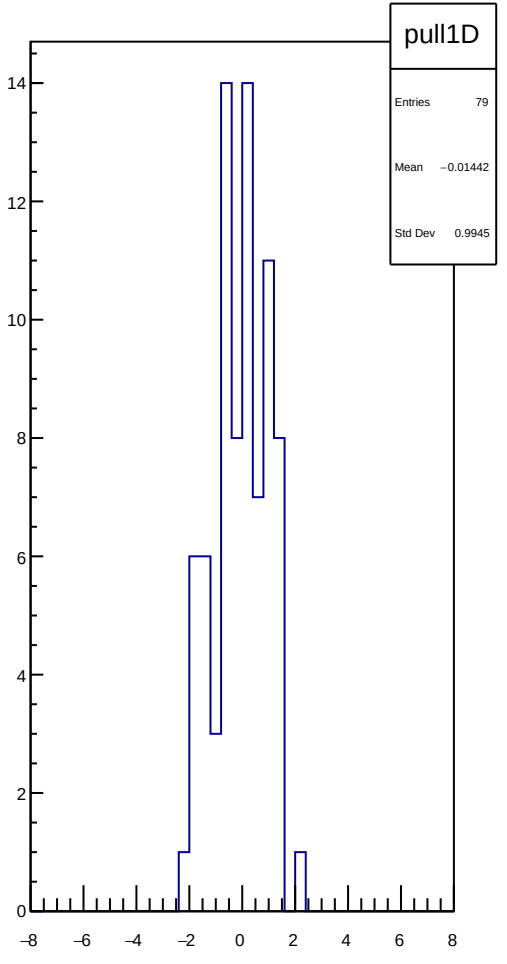

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 2792 / 78
p0 1.011e+04 ± 8.173
11500
11000
10500
10000
9500
9000

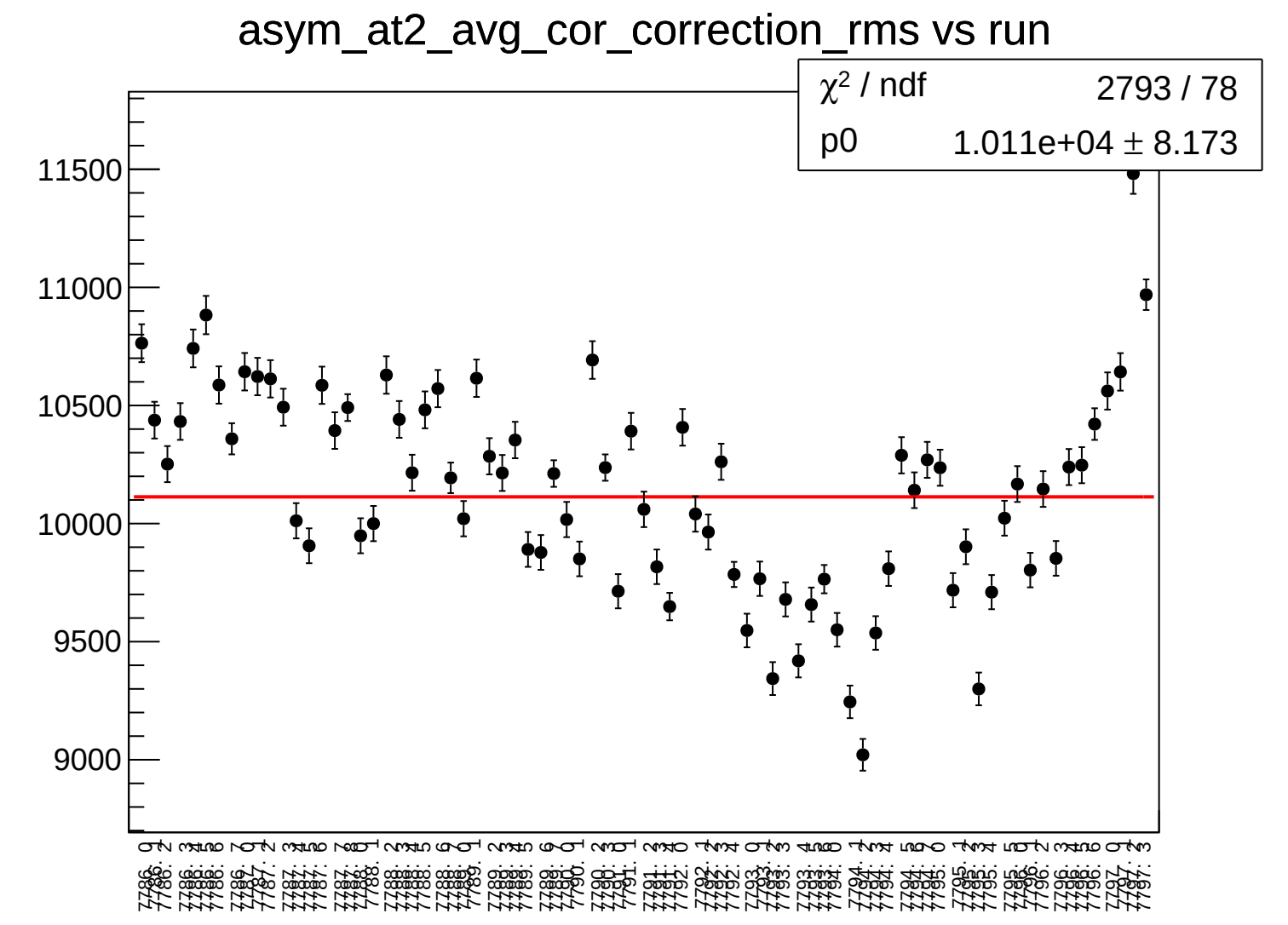

cor_asym_at2_avg_mean vs run
χ² / ndf 76.64 / 78
p0 −3688 ± 2078
pull
Entries 79
Mean −464
Std Dev 0

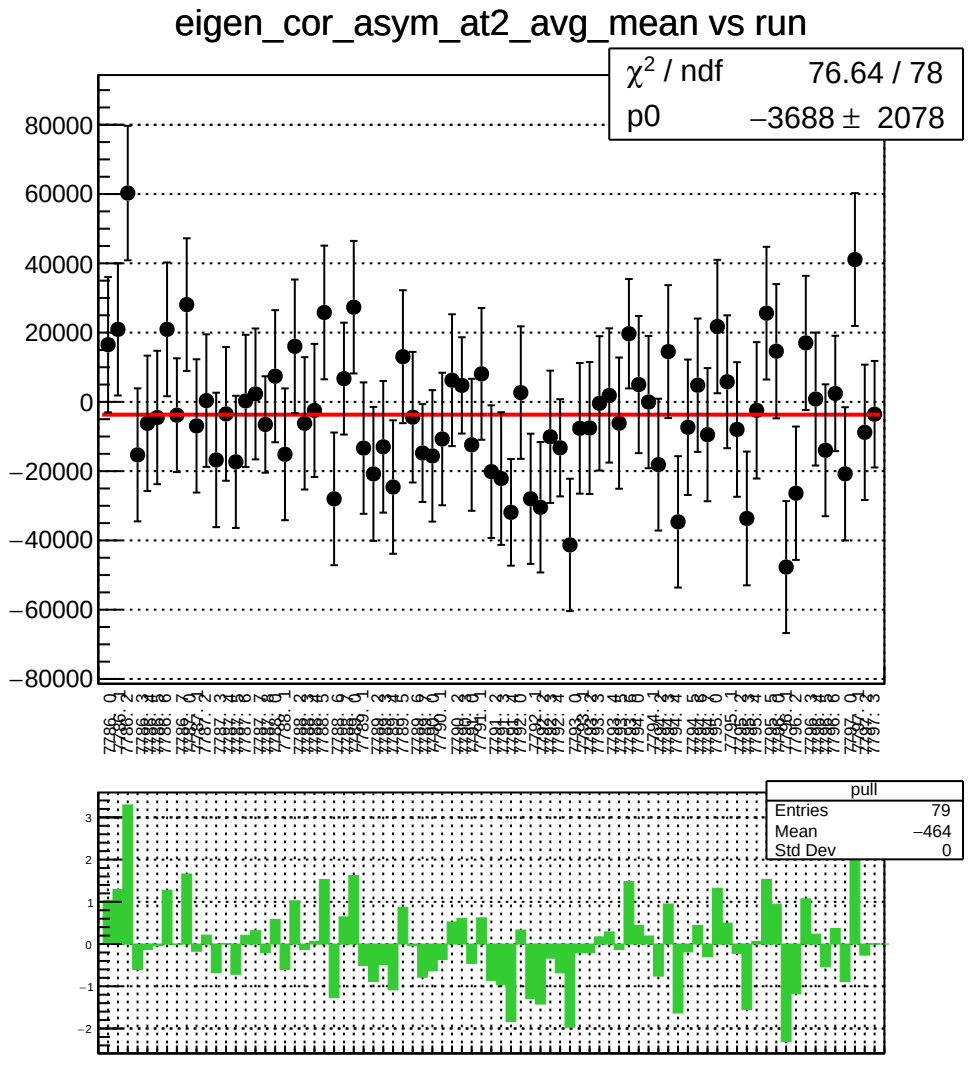

pull1D
Entries 79
Mean 0.006668
Std Dev 0.9849

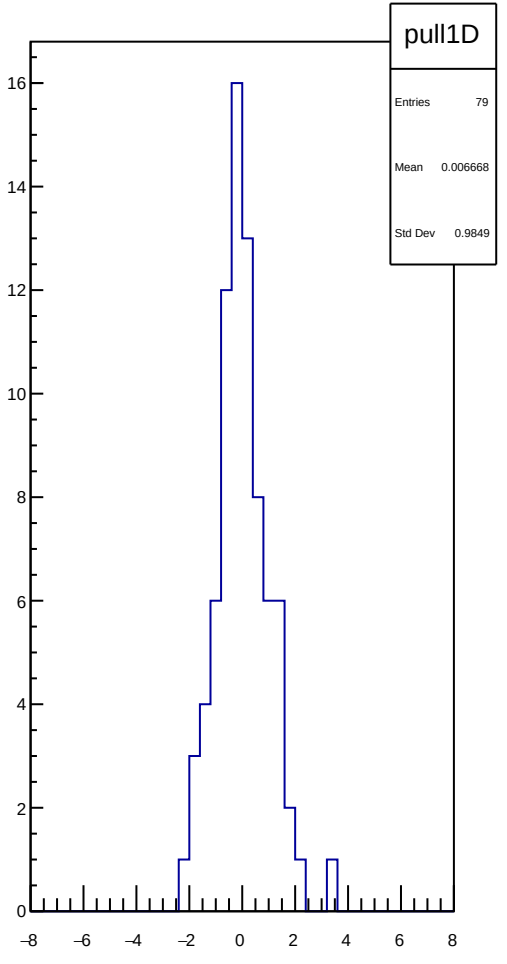

cor_asym_at2_avg_rms vs run
χ² / ndf 143.5 / 78
p0 1820 ± 1.47
1900
1880
1860
1840
1820
1800
1780
1760

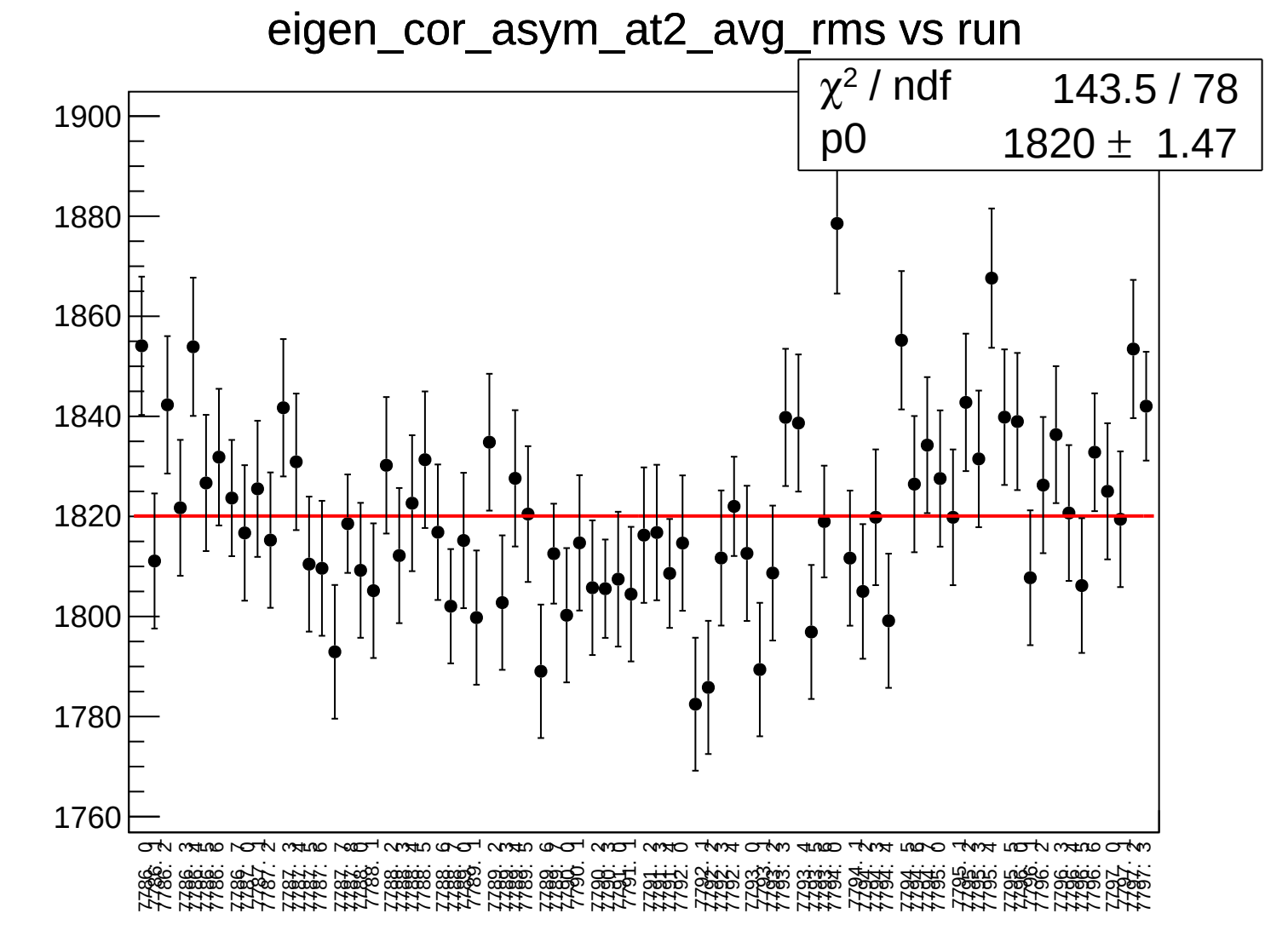

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.16 / 78
p0 1142 ± 1.156e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 79
Mean −287.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

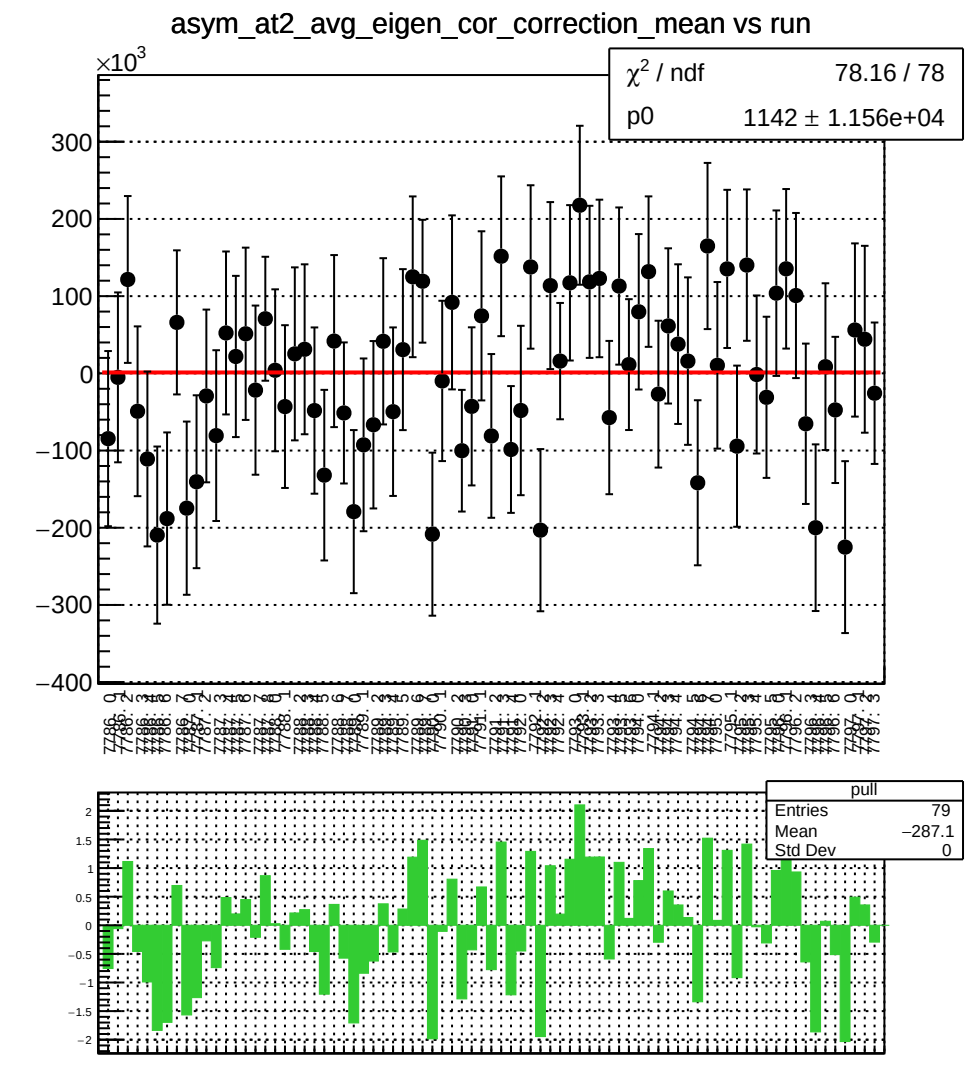

pull1D
Entries 79
Mean −0.01442
Std Dev 0.9945
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

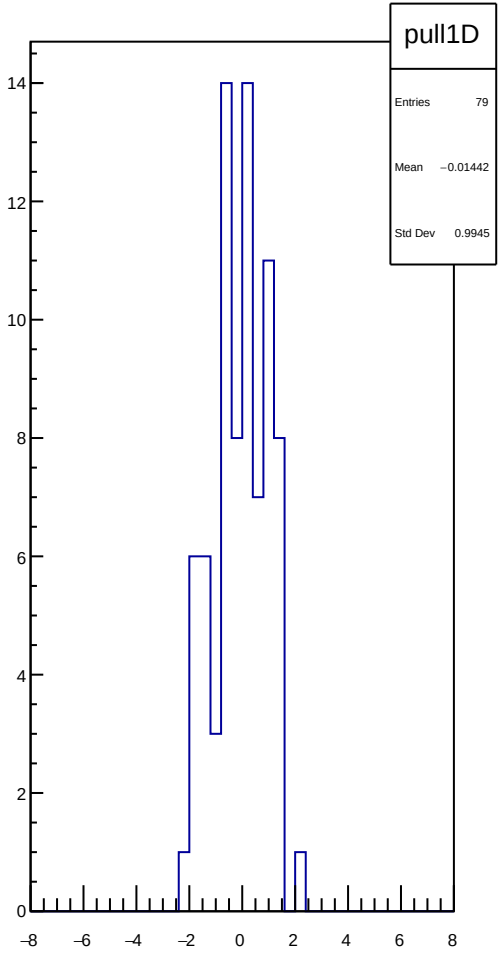

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 2793 / 78
p0 1.011e+04 ± 8.173
11500
11000
10500
10000
9500
9000

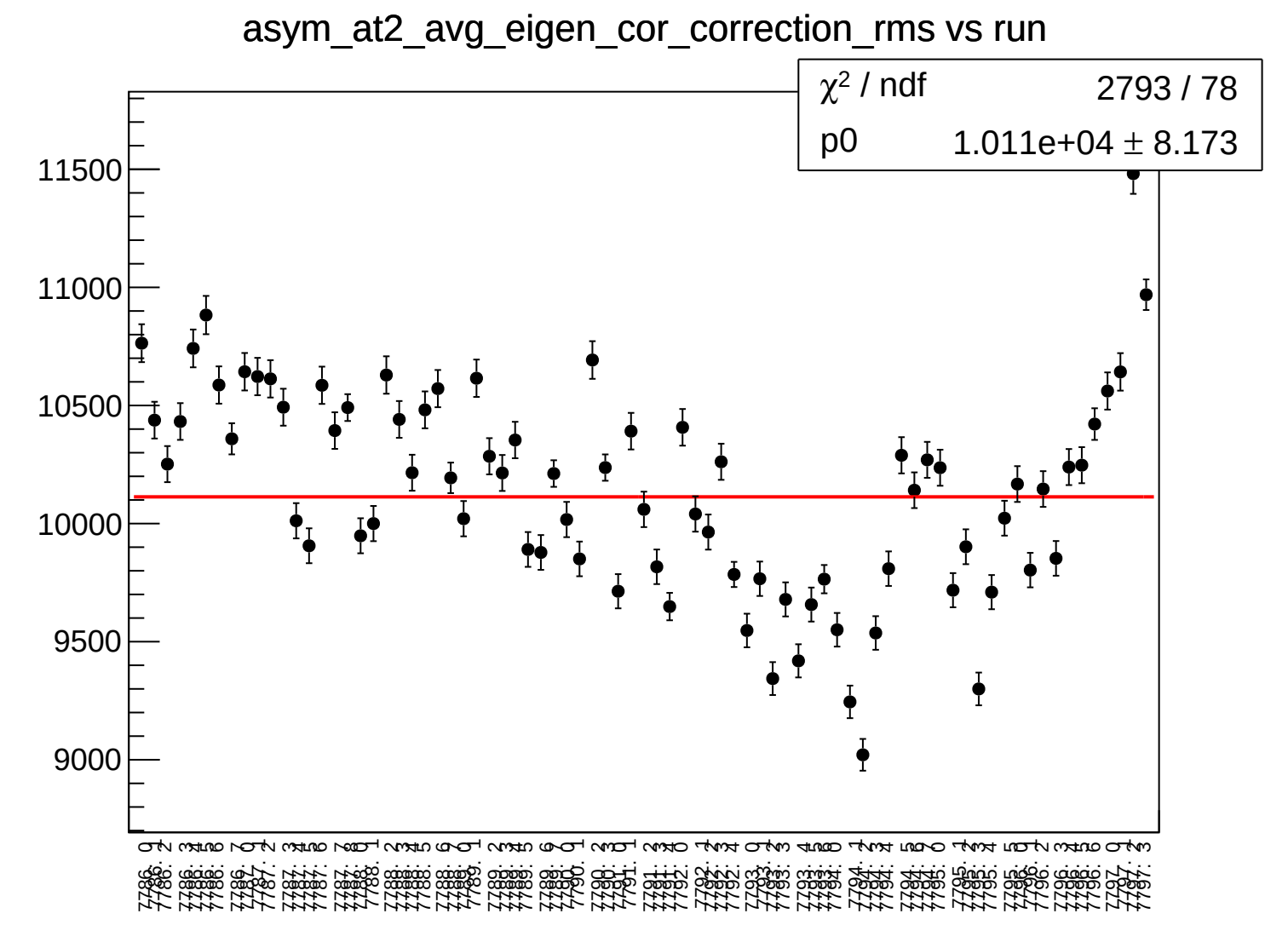

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 76.64 / 78
p0 −3688 ± 2078
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean −464
Std Dev 0
3
2
1
0
−1
−2

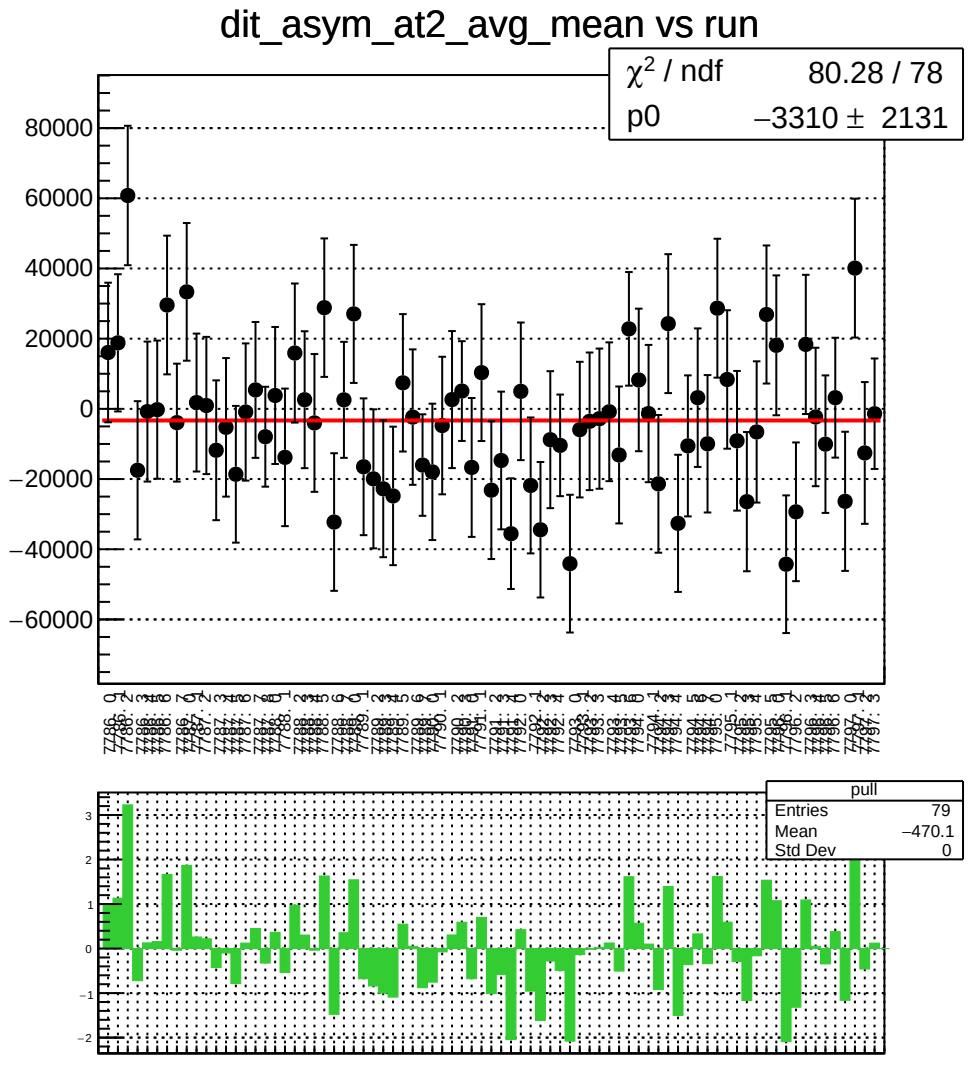

pull1D
Entries 79
Mean 0.006668
Std Dev 0.9849
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

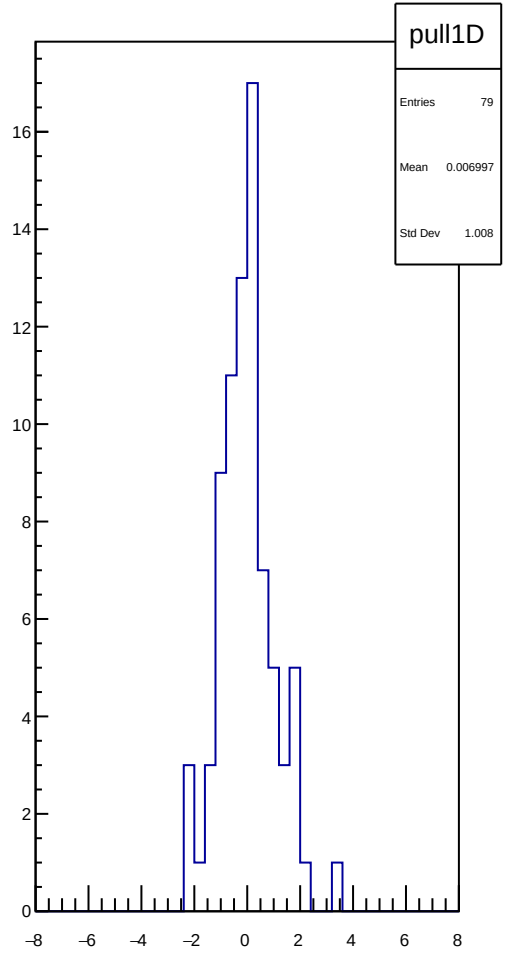

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 143.5 / 78
p0 1820 ± 1.47
1900
1880
1860
1840
1820
1800
1780
1760

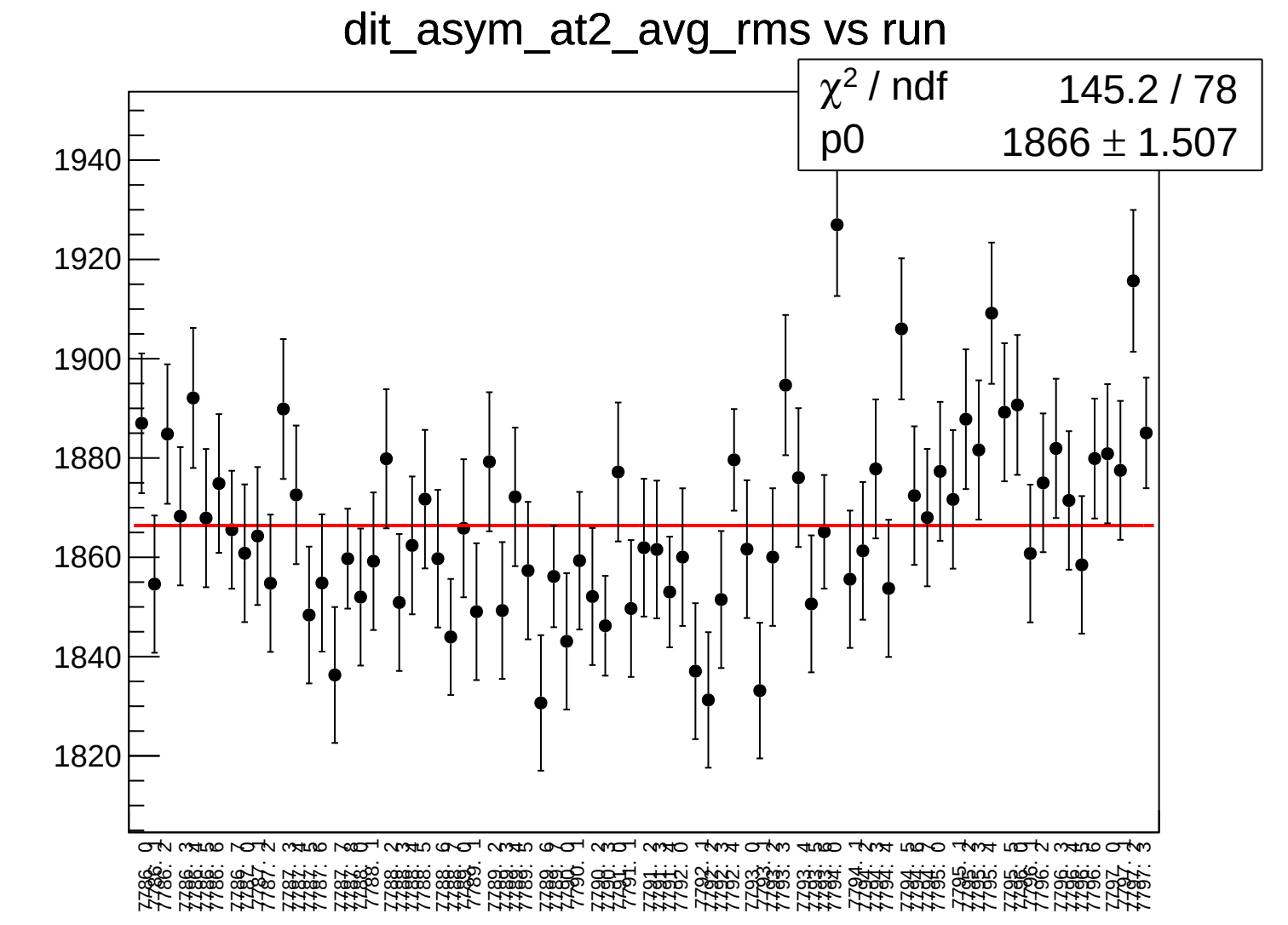

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.16 / 78
p0 1142 ± 1.156e+04
pull
Entries 79
Mean −287.1
Std Dev 0

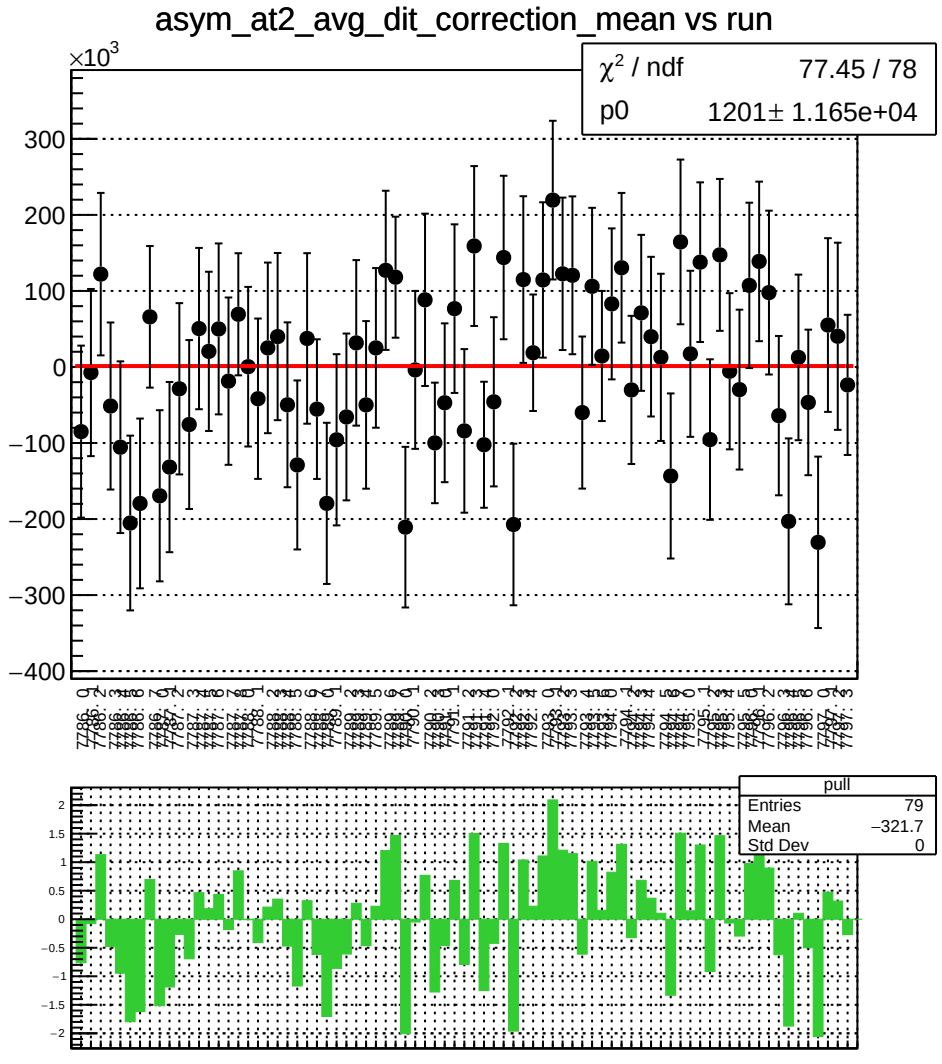

pull1D
Entries 79
Mean −0.01442
Std Dev 0.9945

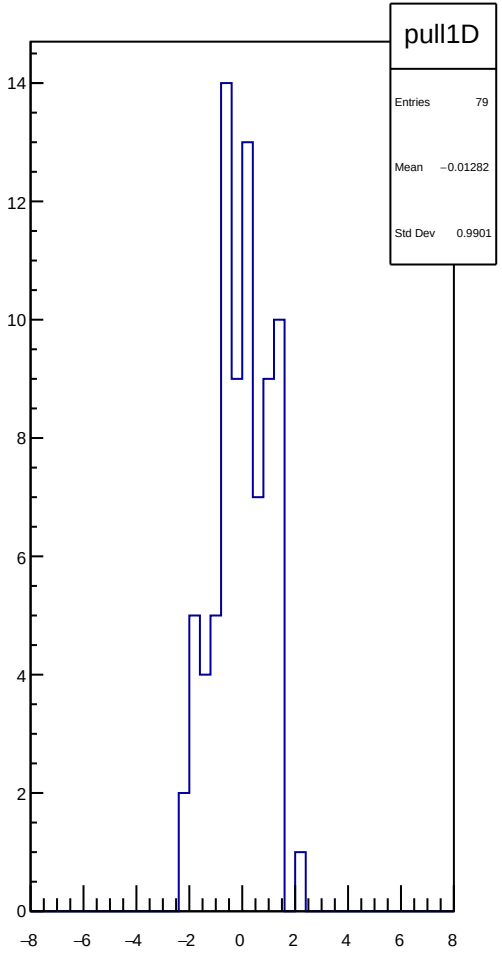

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2793 / 78
p0 1.011e+04 ± 8.173
11500
11000
10500
10000
9500
9000

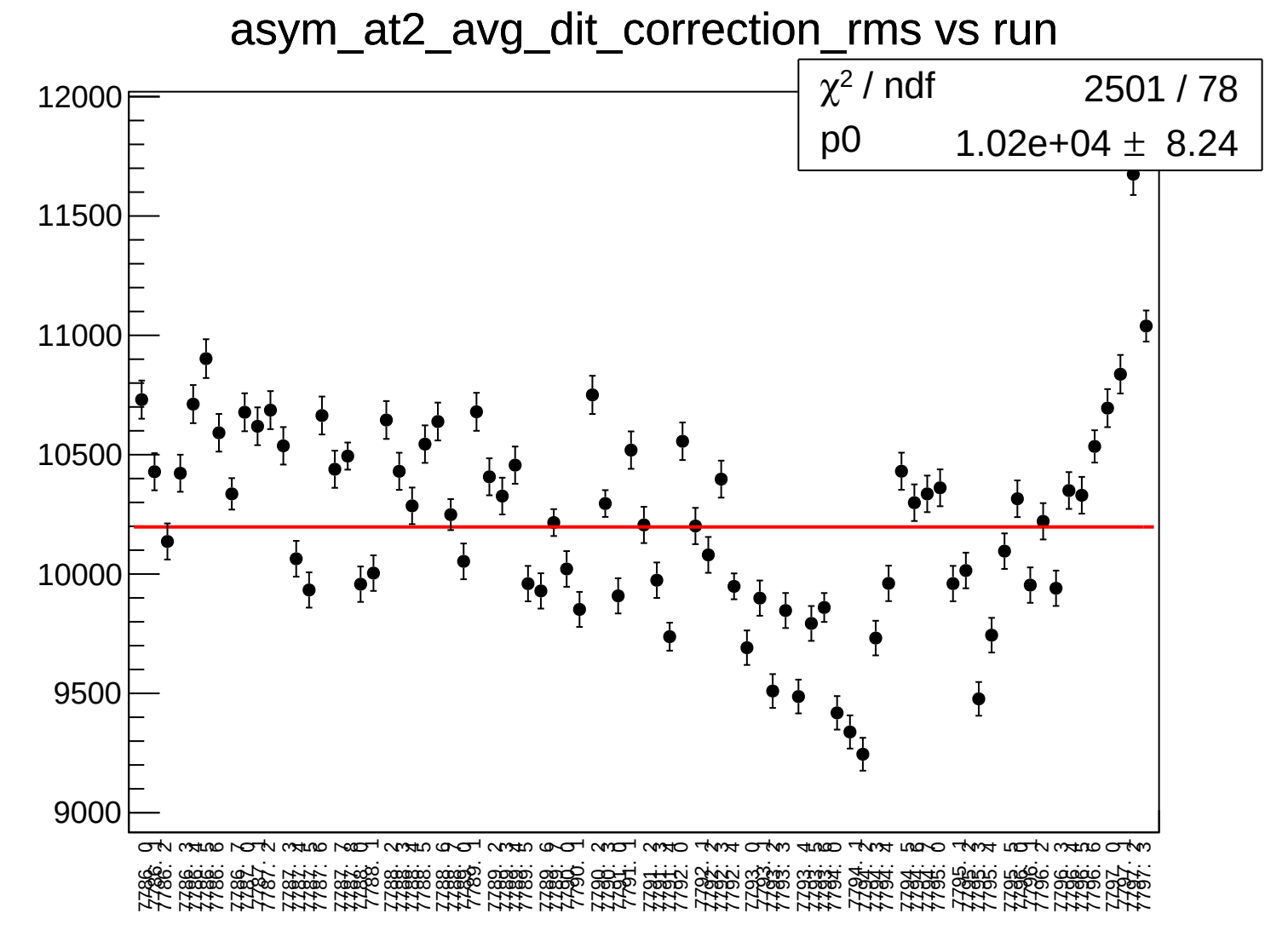

dit_asym_at2_avg_mean vs run
χ² / ndf 80.28 / 78
p0 −3310 ± 2131
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −470.1
Std Dev 0
3
2
1
0
−1
−2

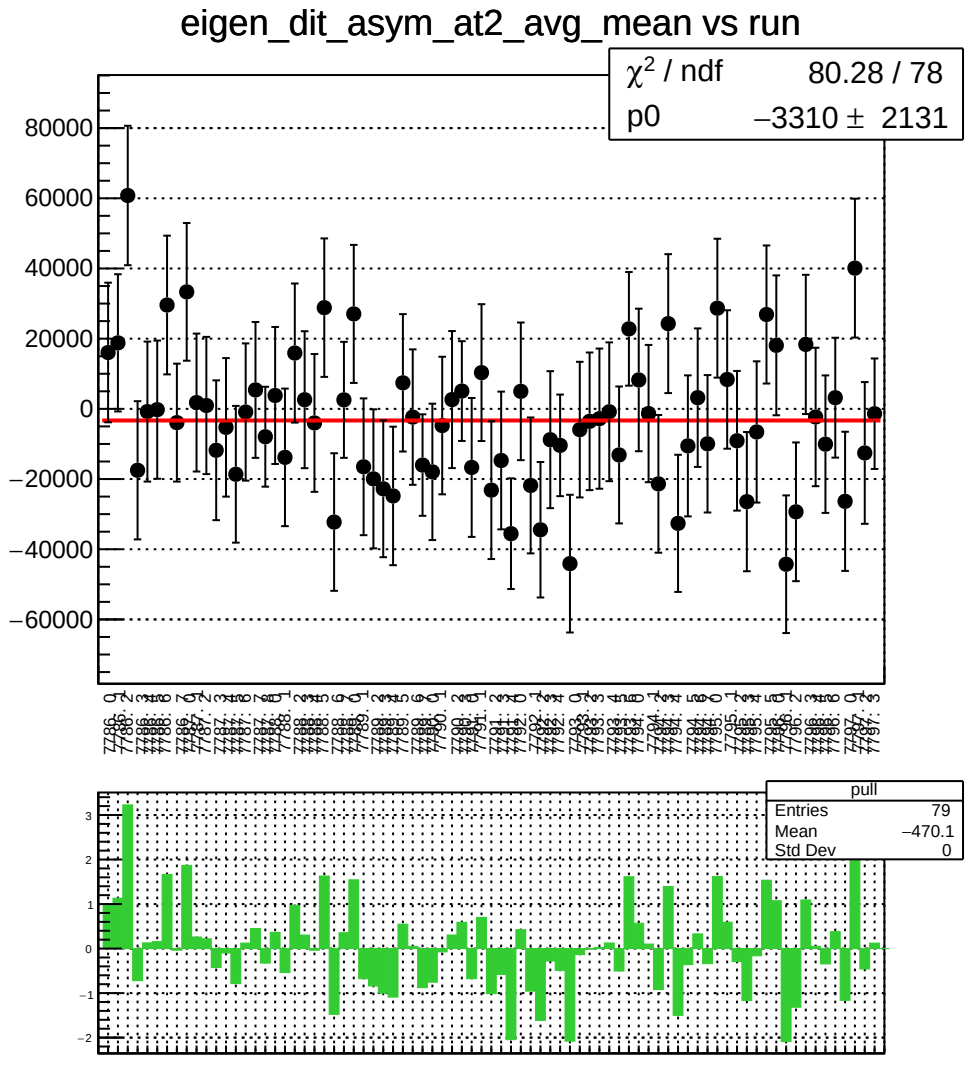

pull1D
Entries 79
Mean 0.006997
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

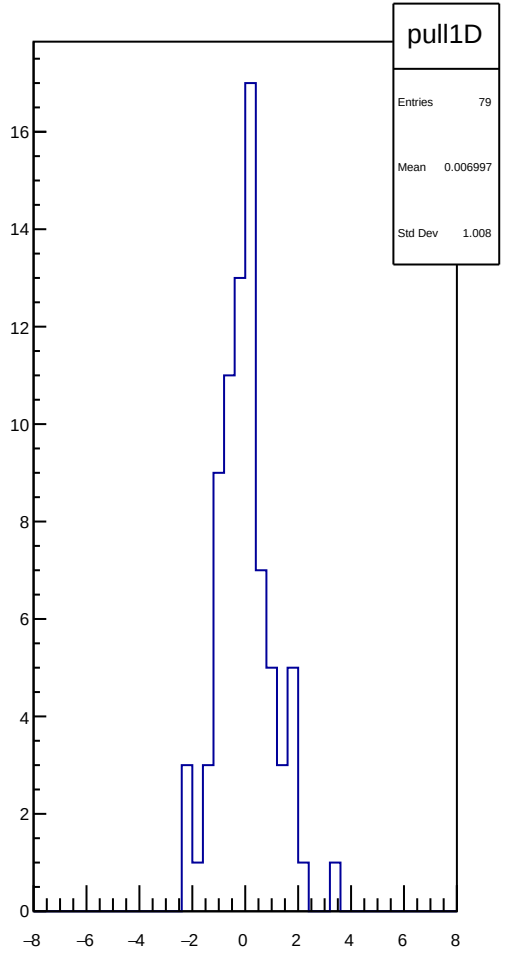

dit_asym_at2_avg_rms vs run
χ² / ndf 145.2 / 78
p0 1866 ± 1.507
1940
1920
1900
1880
1860
1840
1820

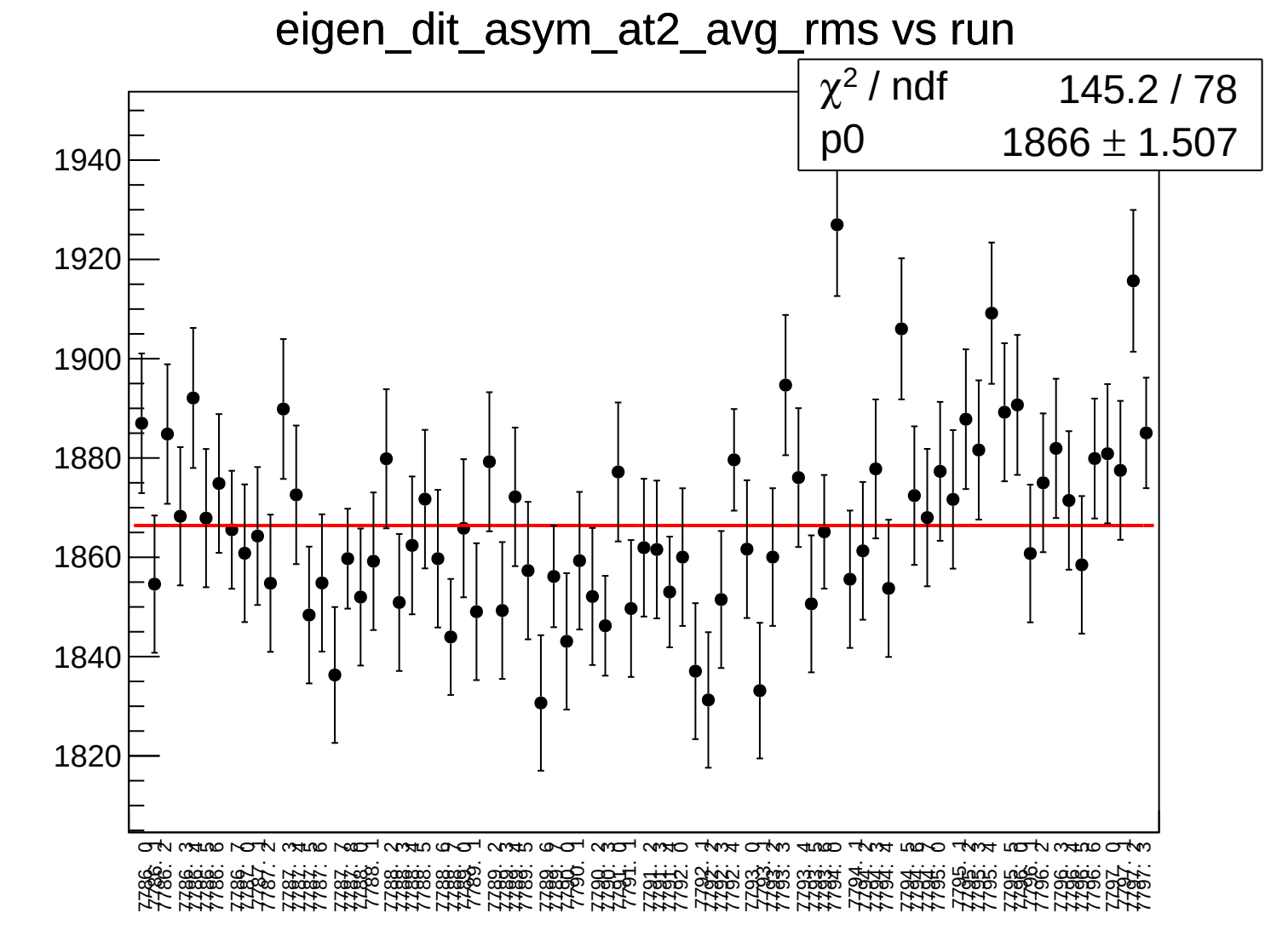

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.45 / 78
p0 1201± 1.165e+04
pull
Entries 79
Mean −321.7
Std Dev 0

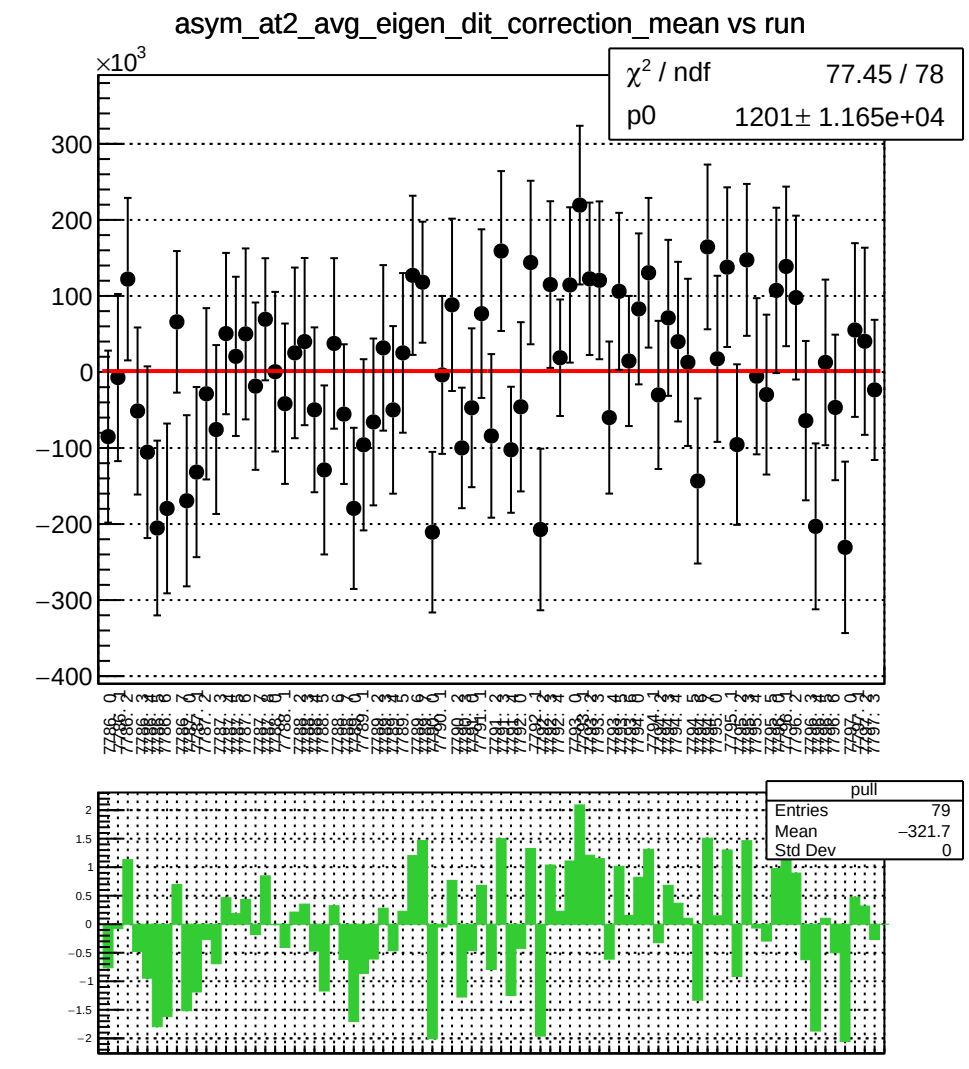

pull1D
Entries 79
Mean −0.01282
Std Dev 0.9901

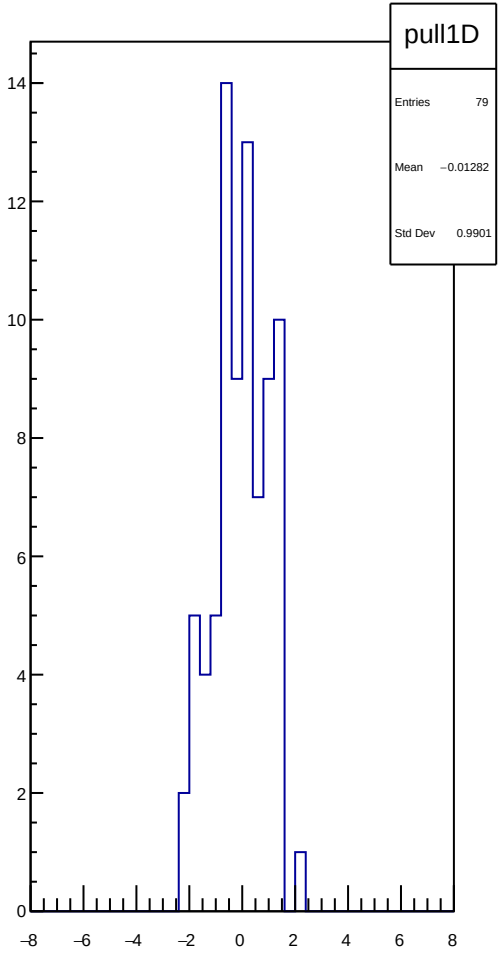

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 2501 / 78
p0 1.02e+04 ± 8.24
12000
11500
11000
10500
10000
9500
9000

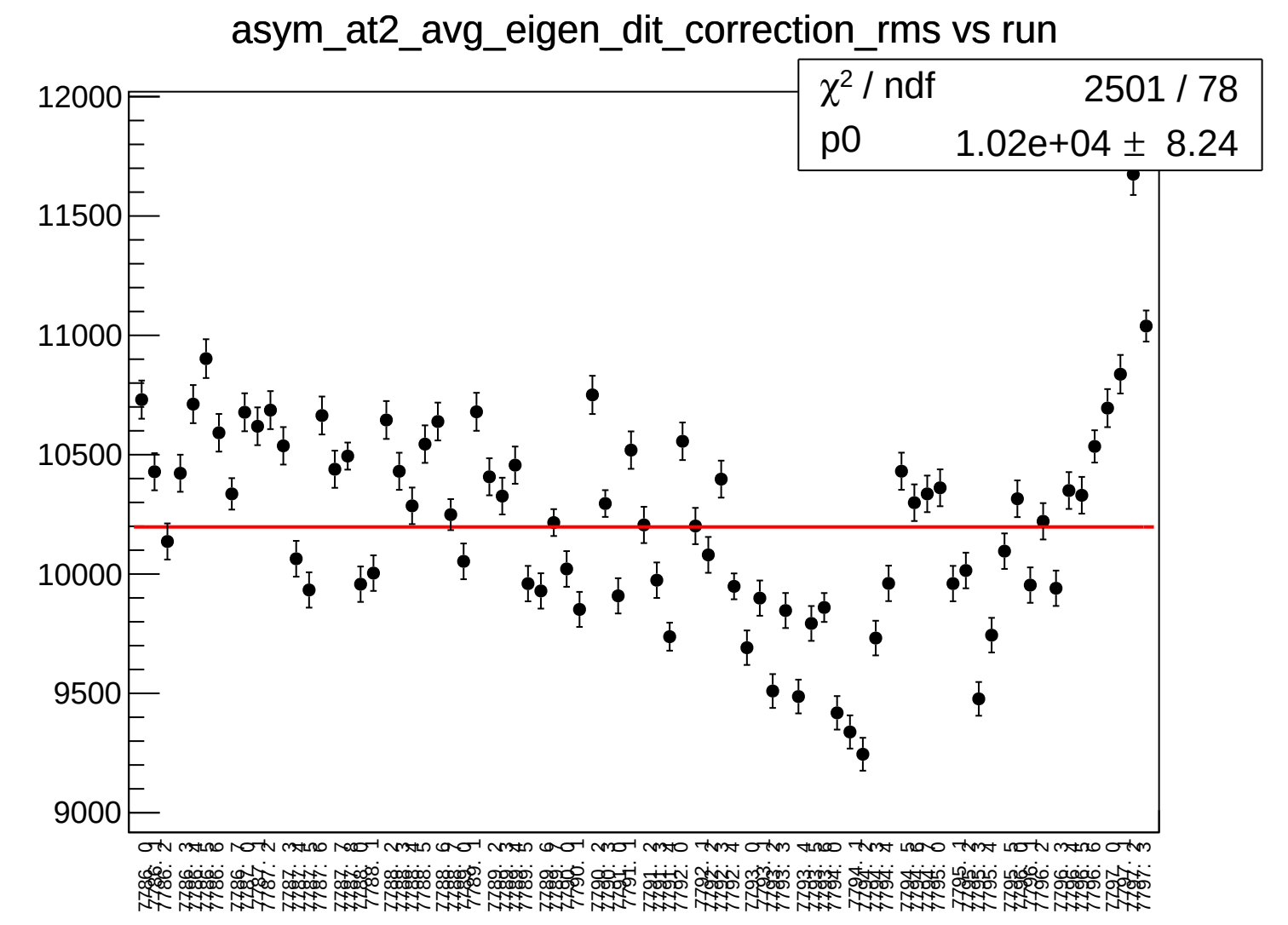

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 80.28 / 78
p0 −3310 ± 2131
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −470.1
Std Dev 0
3
2
1
0
−1
−2

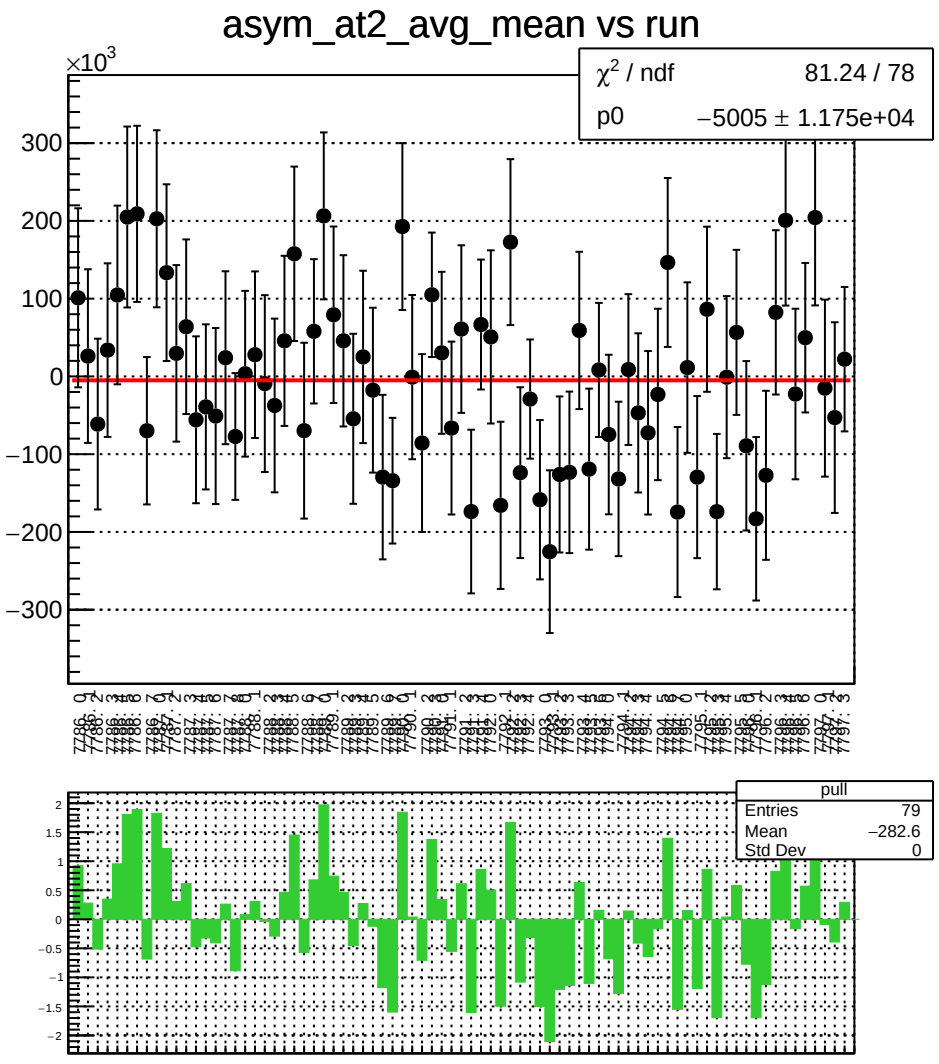

pull1D
Entries 79
Mean 0.006997
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

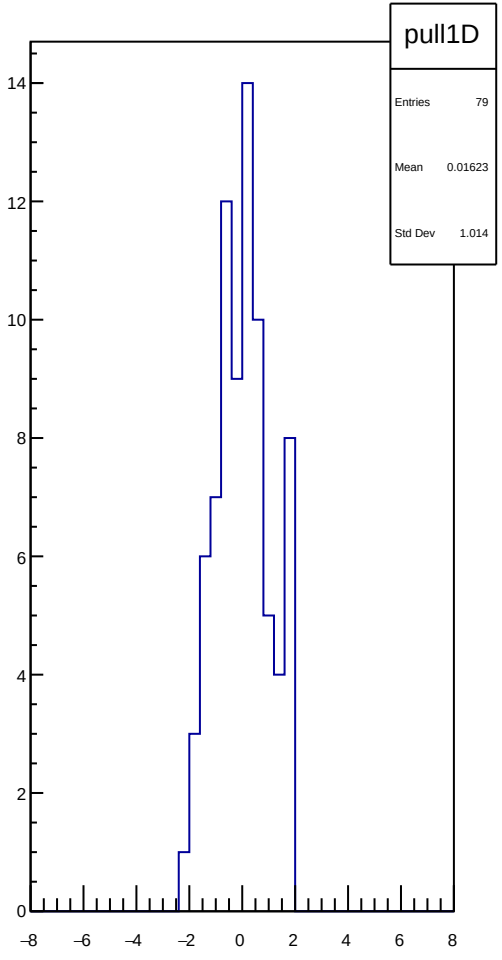

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 145.2 / 78
p0 1866 ± 1.507
1940
1920
1900
1880
1860
1840
1820

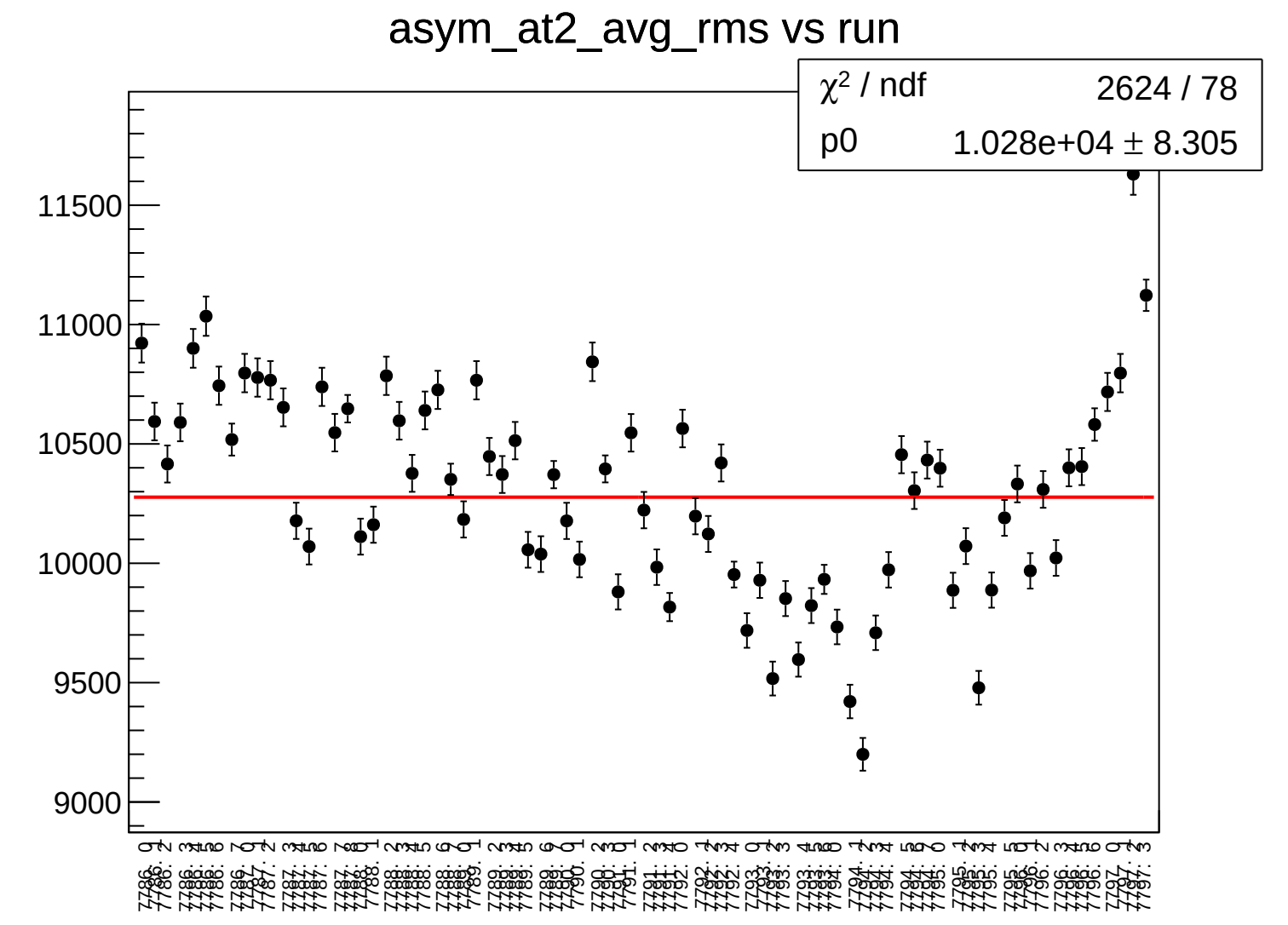

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.45 / 78
p0 1201± 1.165e+04
pull
Entries 79
Mean −321.7
Std Dev 0

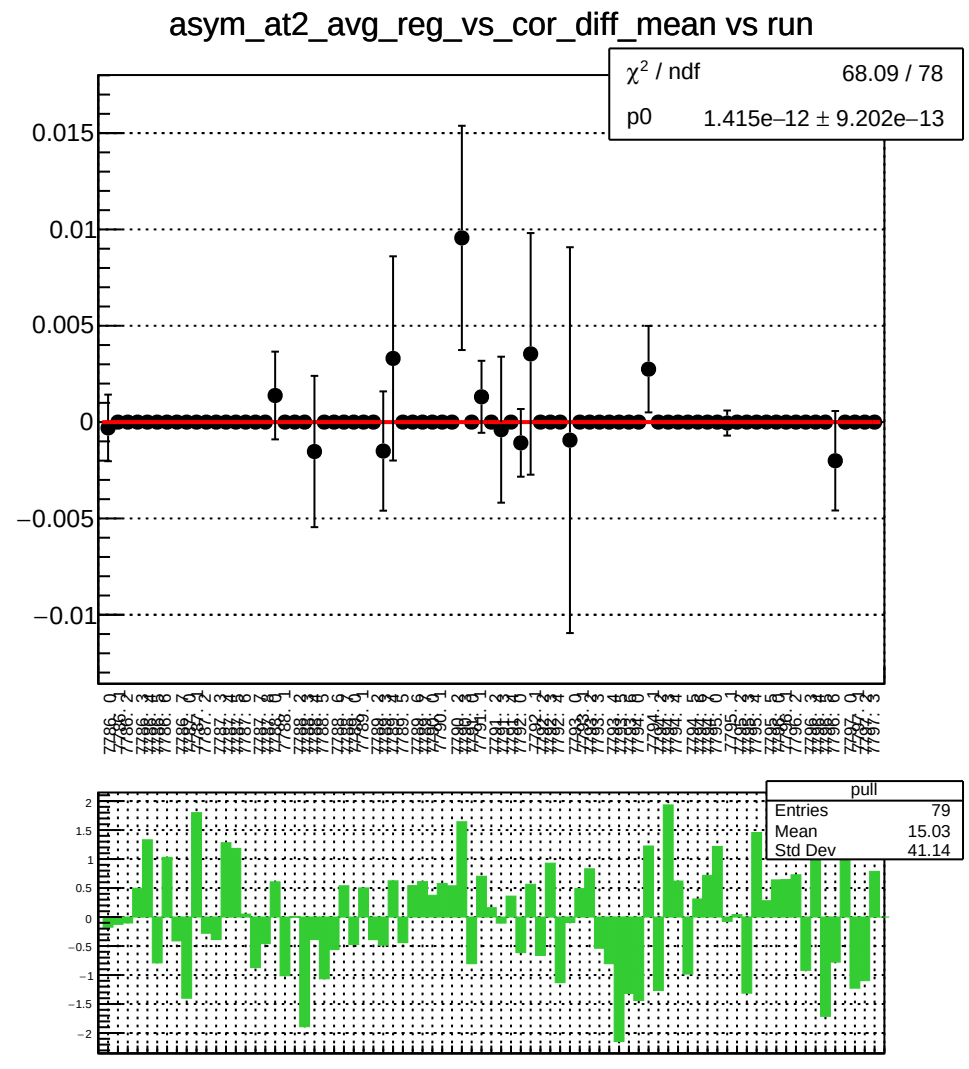

pull1D
Entries 79
Mean −0.01282
Std Dev 0.9901

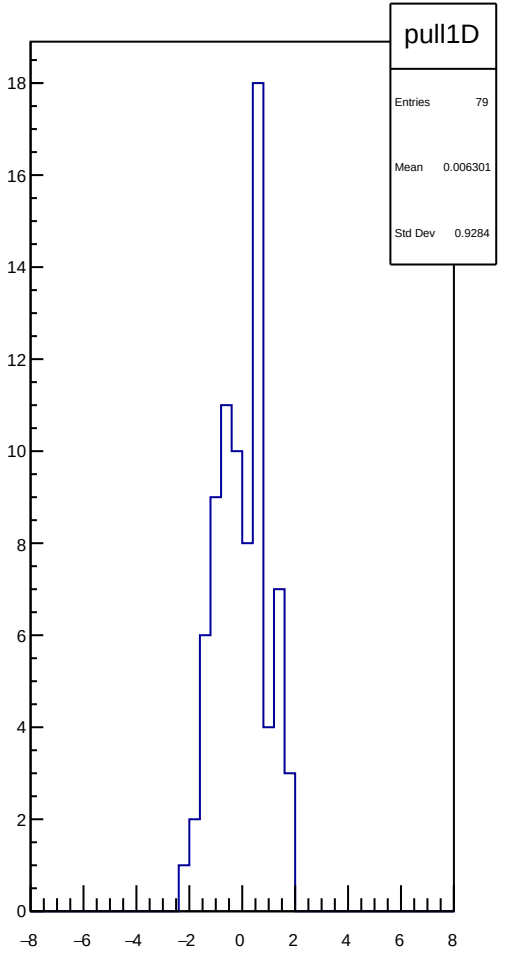

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2501 / 78
p0 1.02e+04 ± 8.24
12000
11500
11000
10500
10000
9500
9000

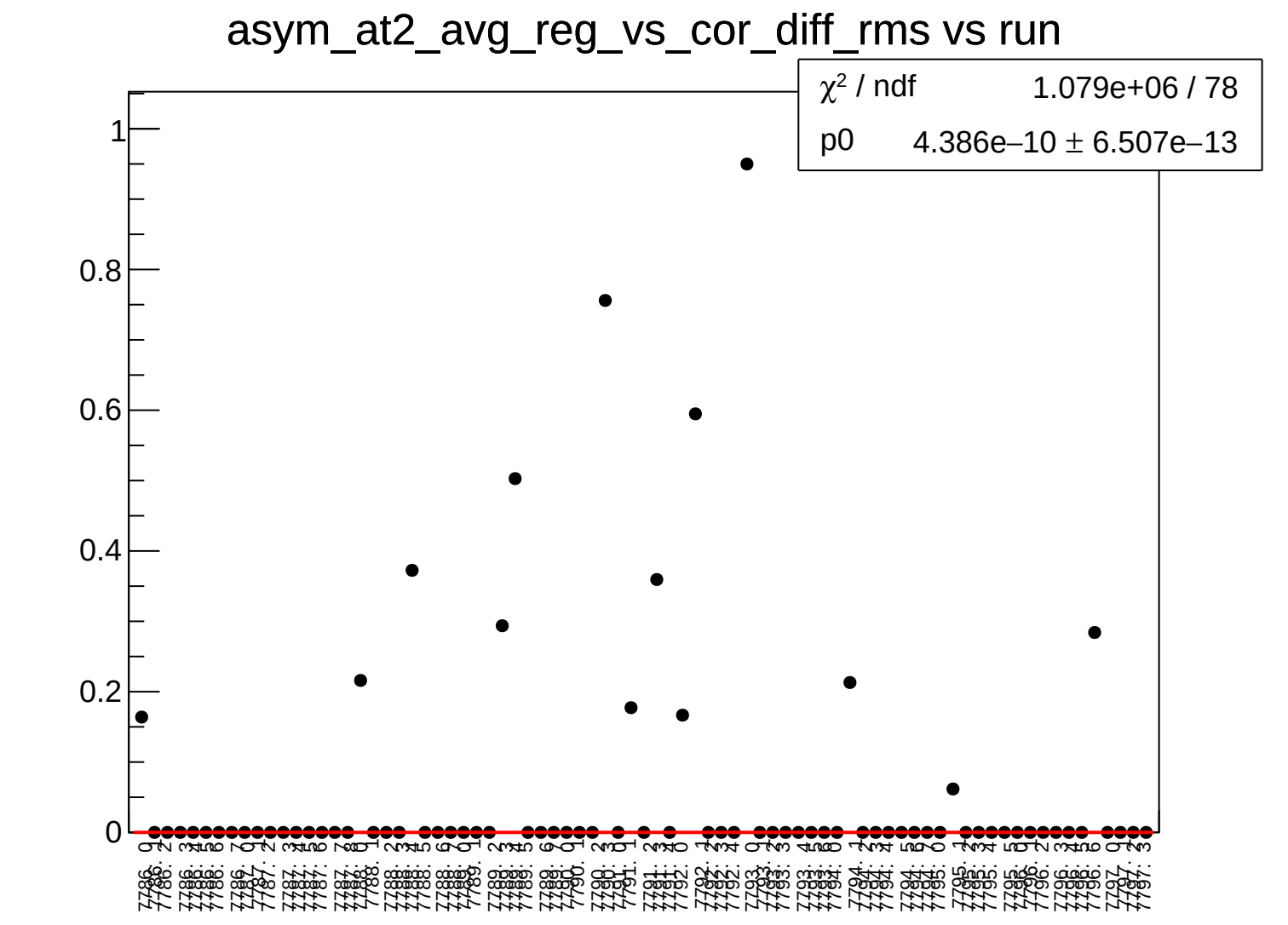

asym_at2_avg_mean vs run
×10^3
χ² / ndf 81.24 / 78
p0 −5005 ± 1.175e+04
300
200
100
0
−100
−200
−300
pull
Entries 79
Mean −282.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

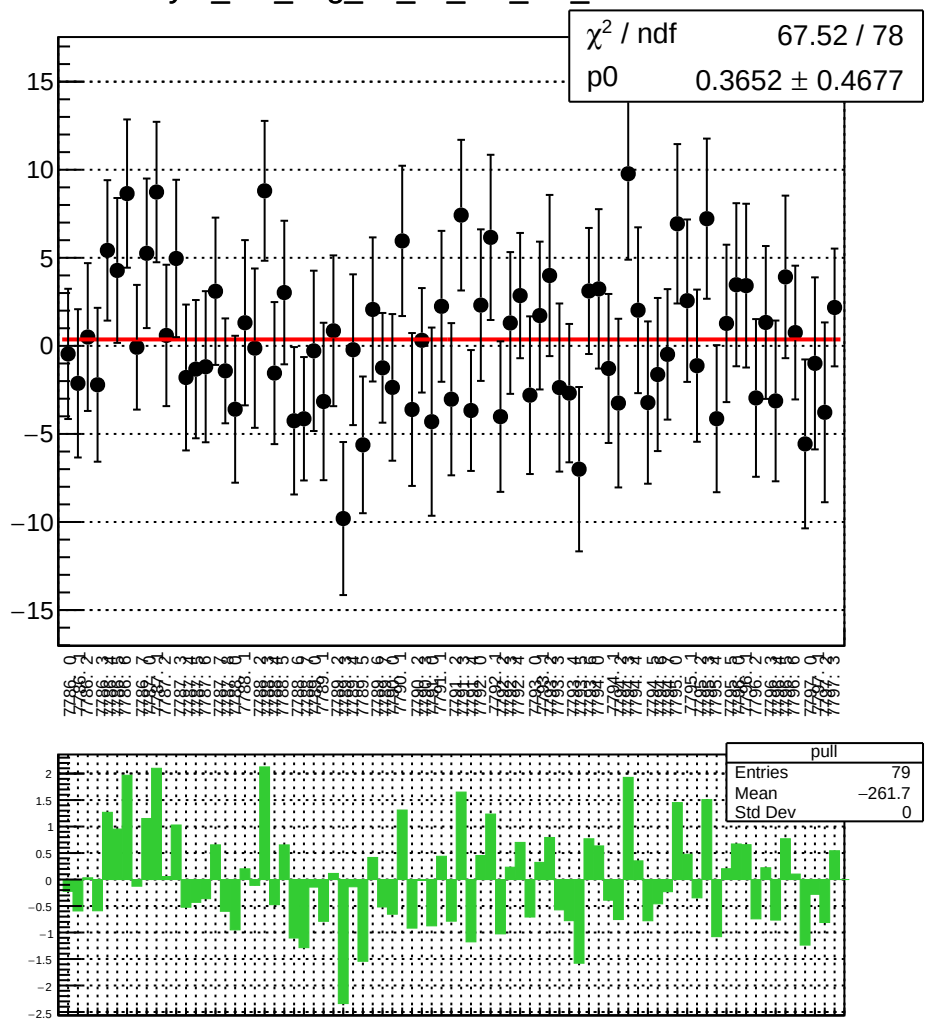

pull1D
Entries 79
Mean 0.01623
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

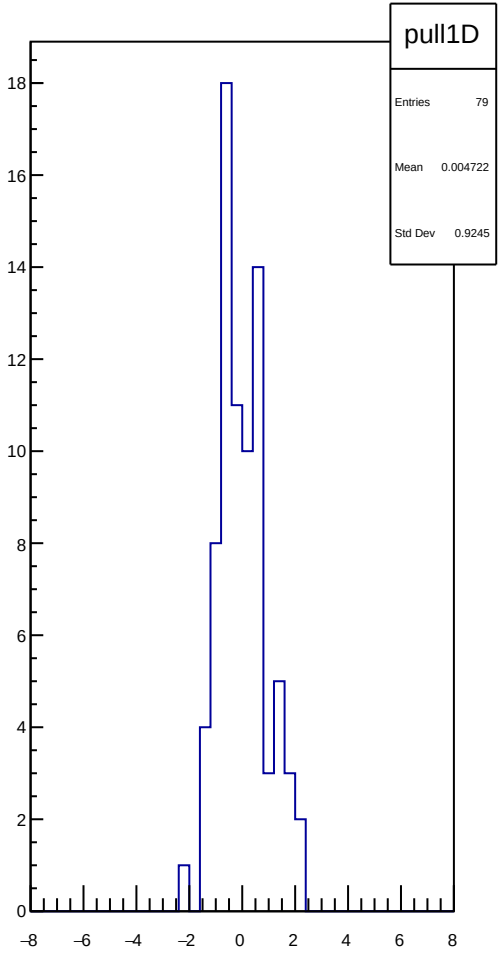

asym_at2_avg_rms vs run
χ² / ndf 2624 / 78
p0 1.028e+04 ± 8.305
11500
11000
10500
10000
9500
9000

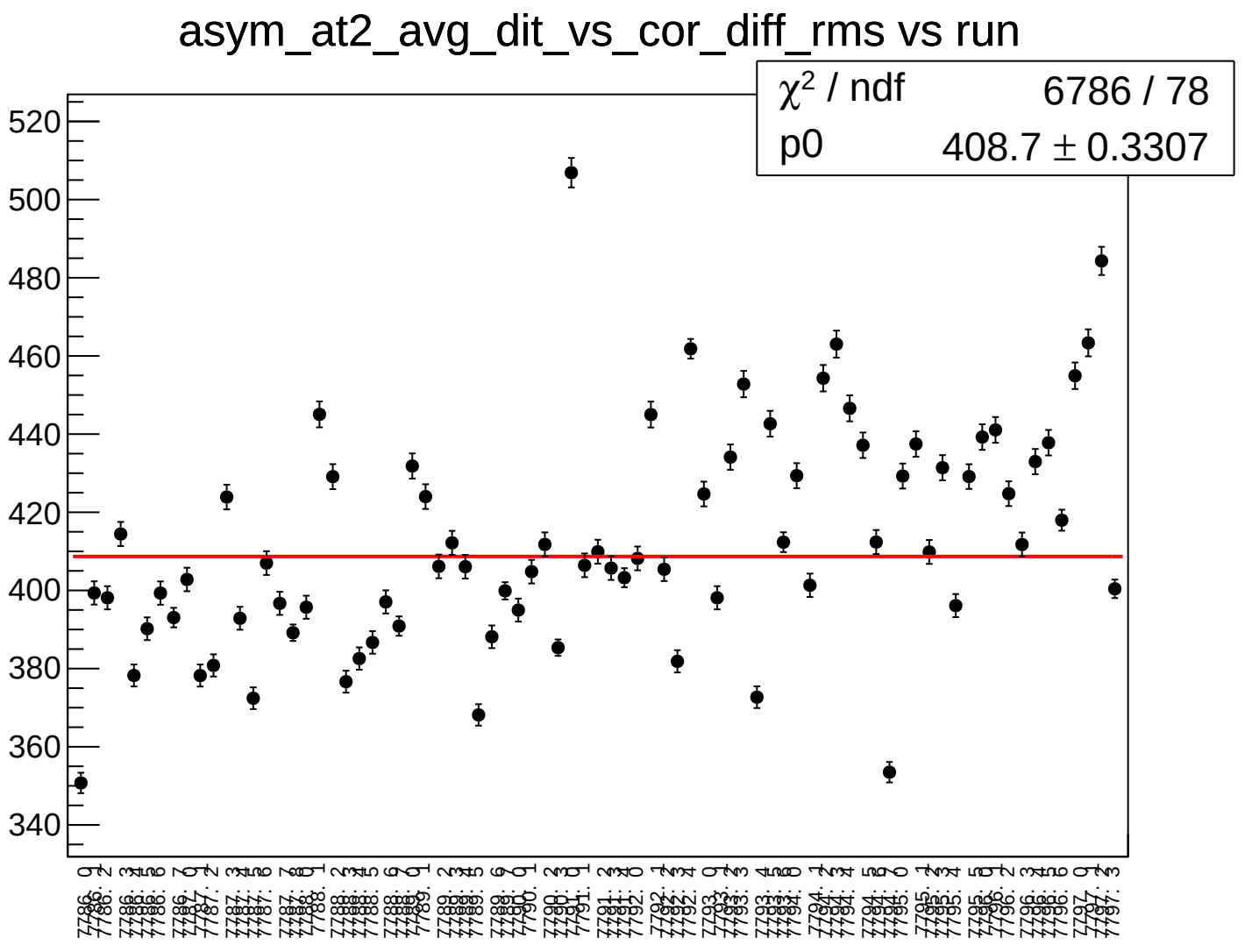

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.09 / 78
p0 1.415e−12 ± 9.202e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 79
Mean 15.03
Std Dev 41.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

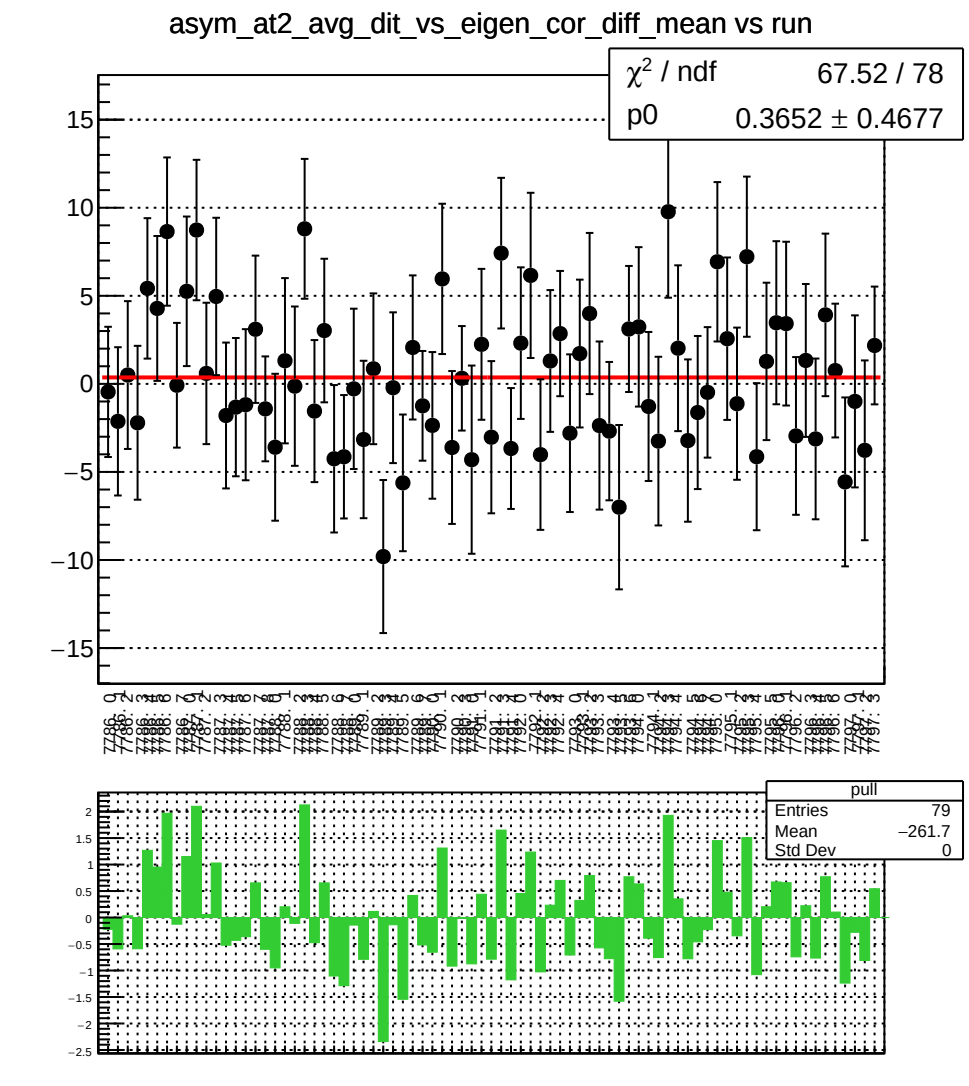

pull1D
Entries 79
Mean 0.006301
Std Dev 0.9284
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

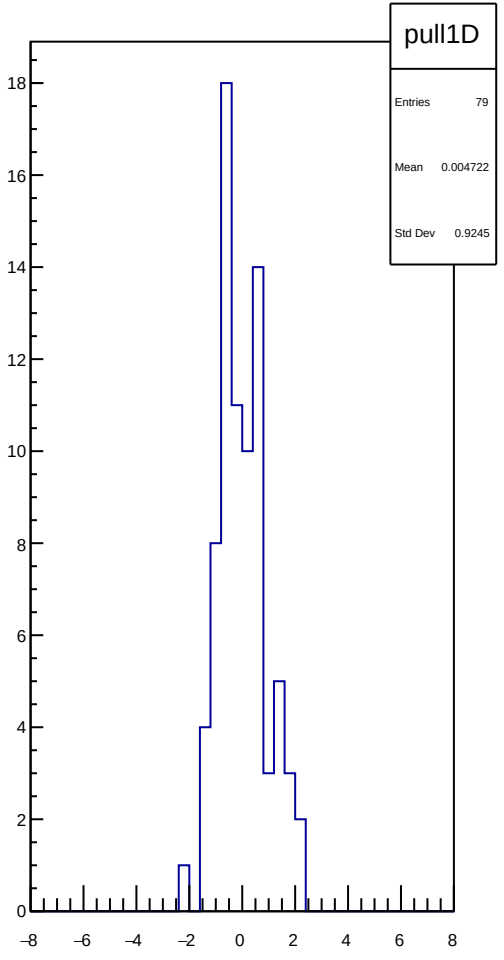

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.079e+06 / 78
p0 4.386e−10 ± 6.507e−13
1
0.8
0.6
0.4
0.2
0

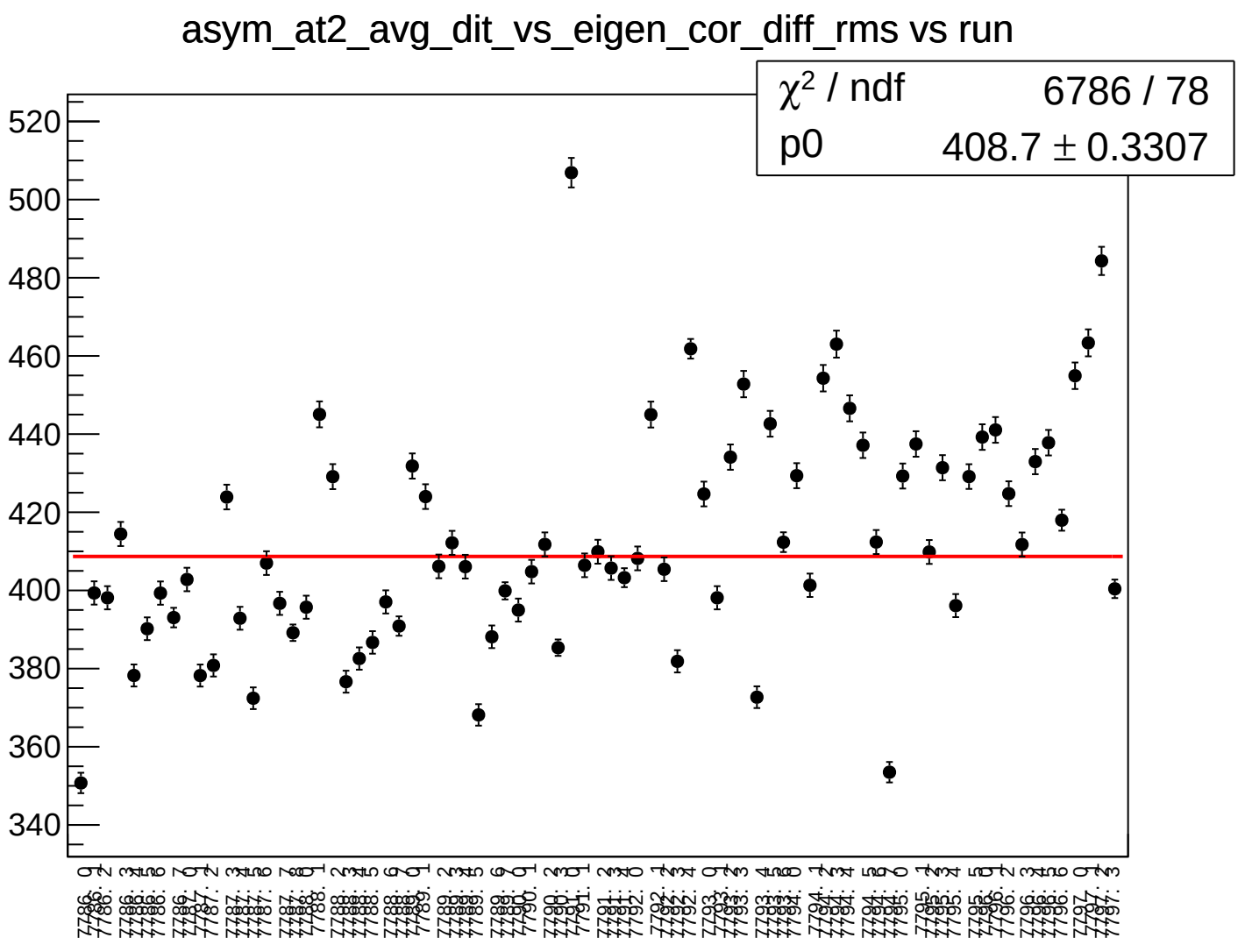

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.52 / 78
p0 0.3652 ± 0.4677
pull
Entries 79
Mean −261.7
Std Dev 0

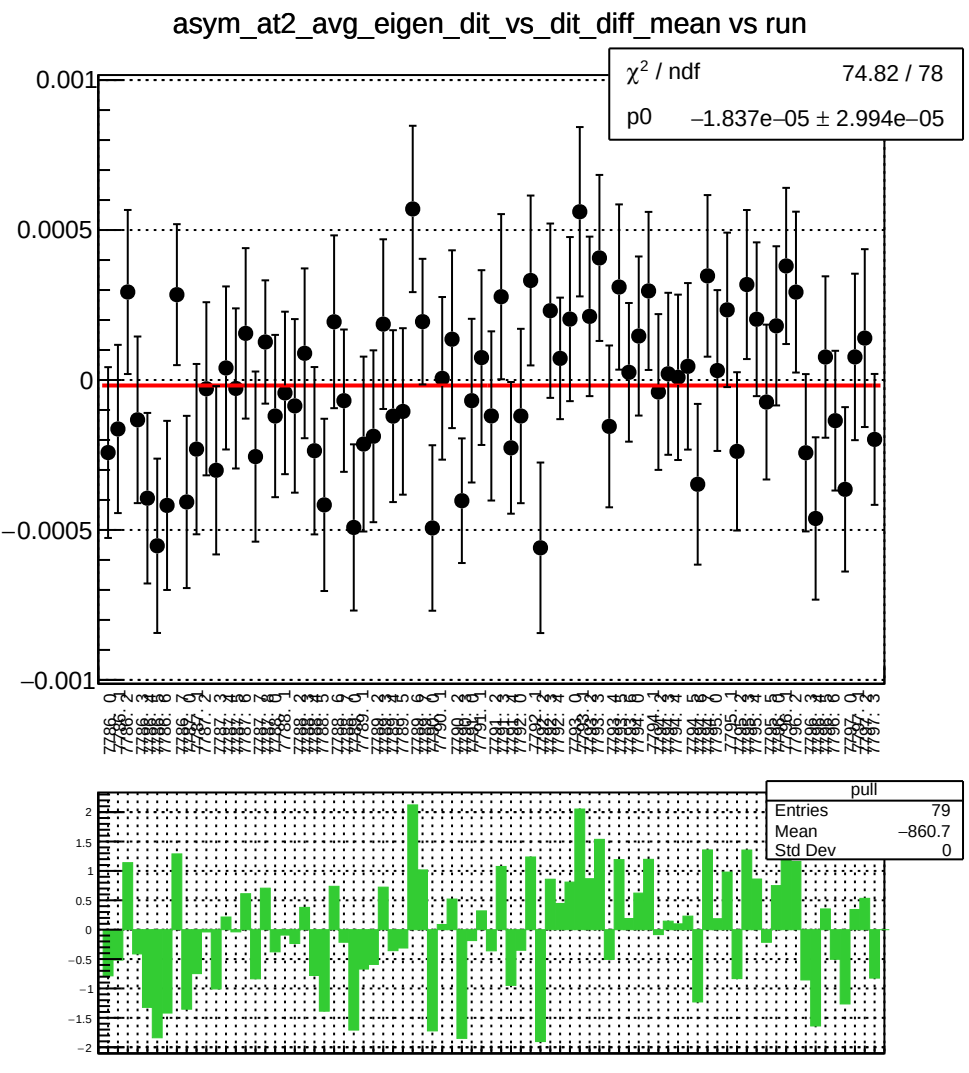

pull1D
Entries 79
Mean 0.004722
Std Dev 0.9245

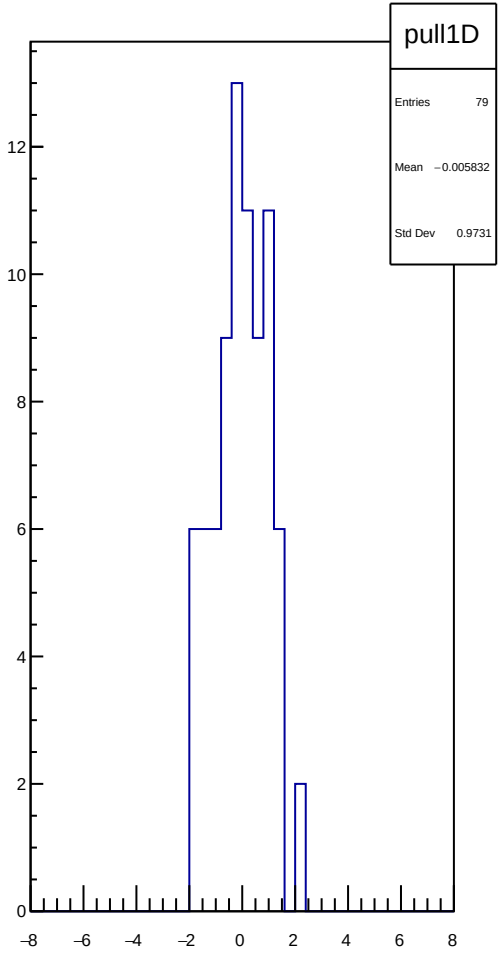

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6786 / 78
p0 408.7 ± 0.3307
520
500
480
460
440
420
400
380
360
340

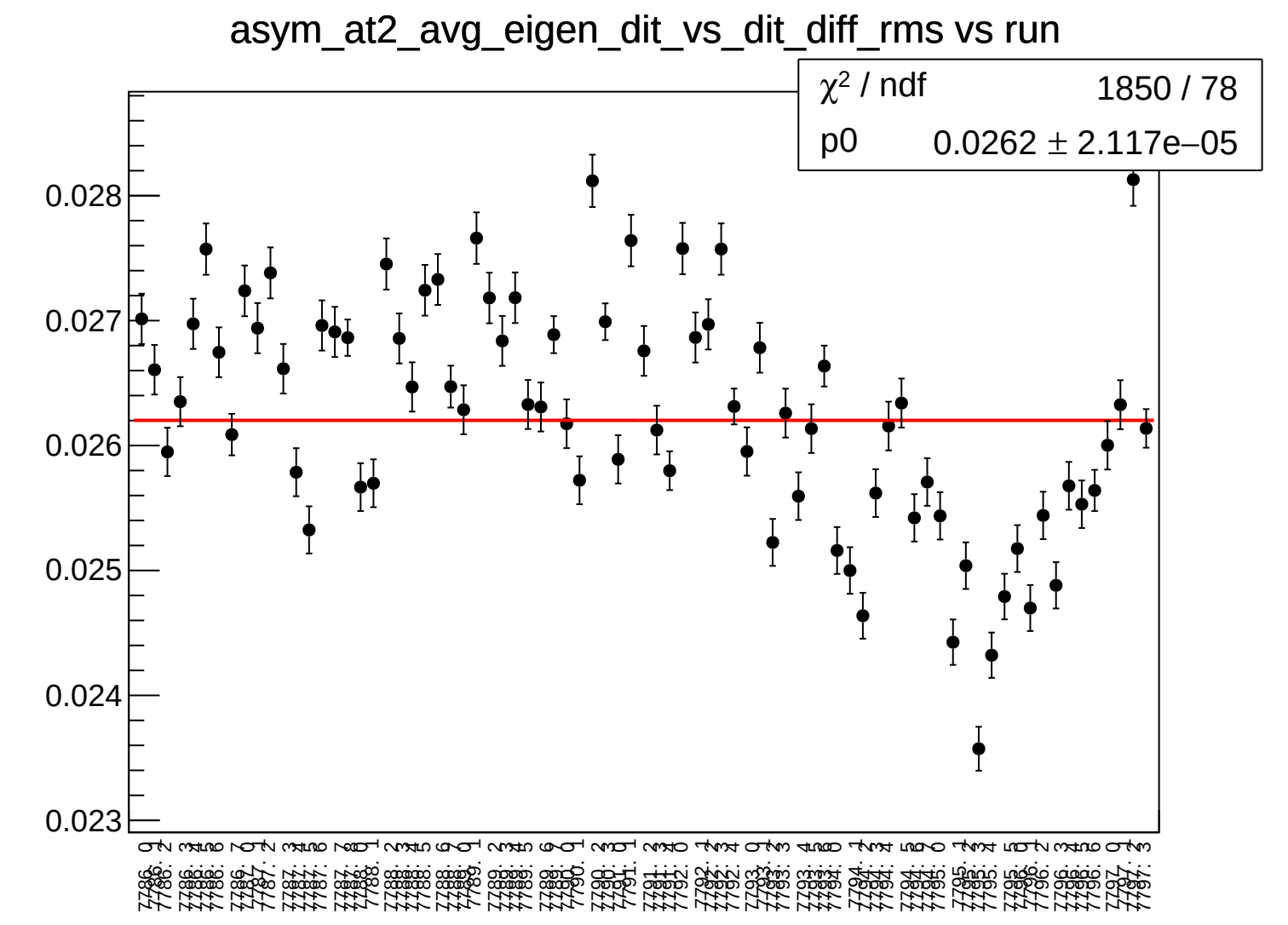

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.52 / 78
p0 0.3652 ± 0.4677
pull
Entries 79
Mean −261.7
Std Dev 0

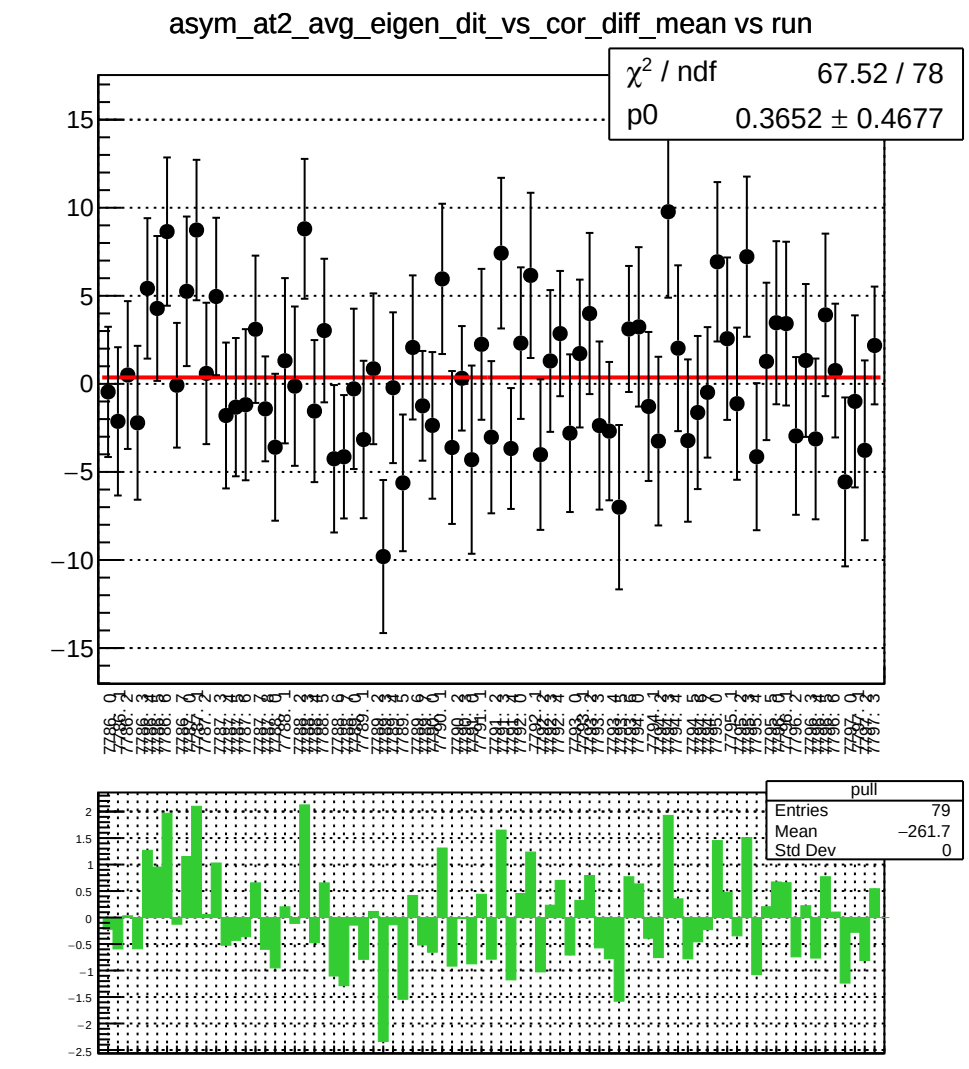

pull1D
Entries 79
Mean 0.004722
Std Dev 0.9245

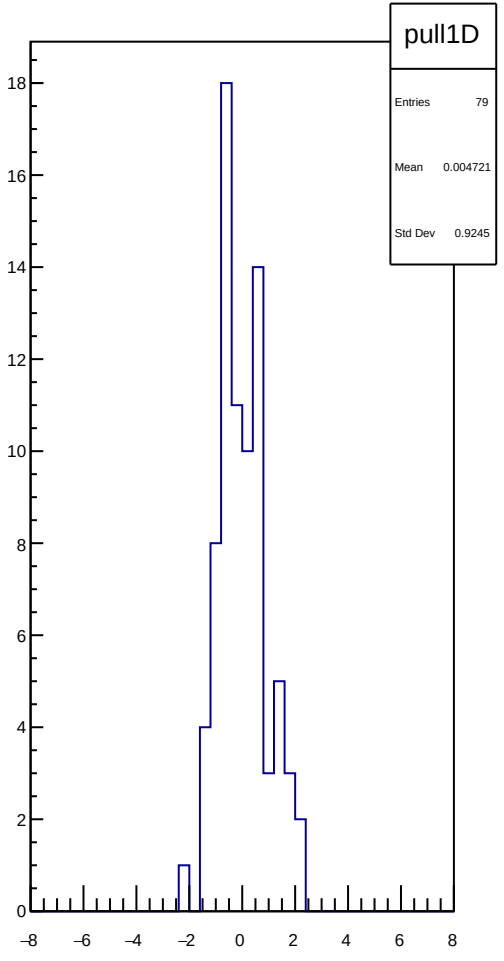

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6786 / 78
p0 408.7 ± 0.3307
520
500
480
460
440
420
400
380
360
340

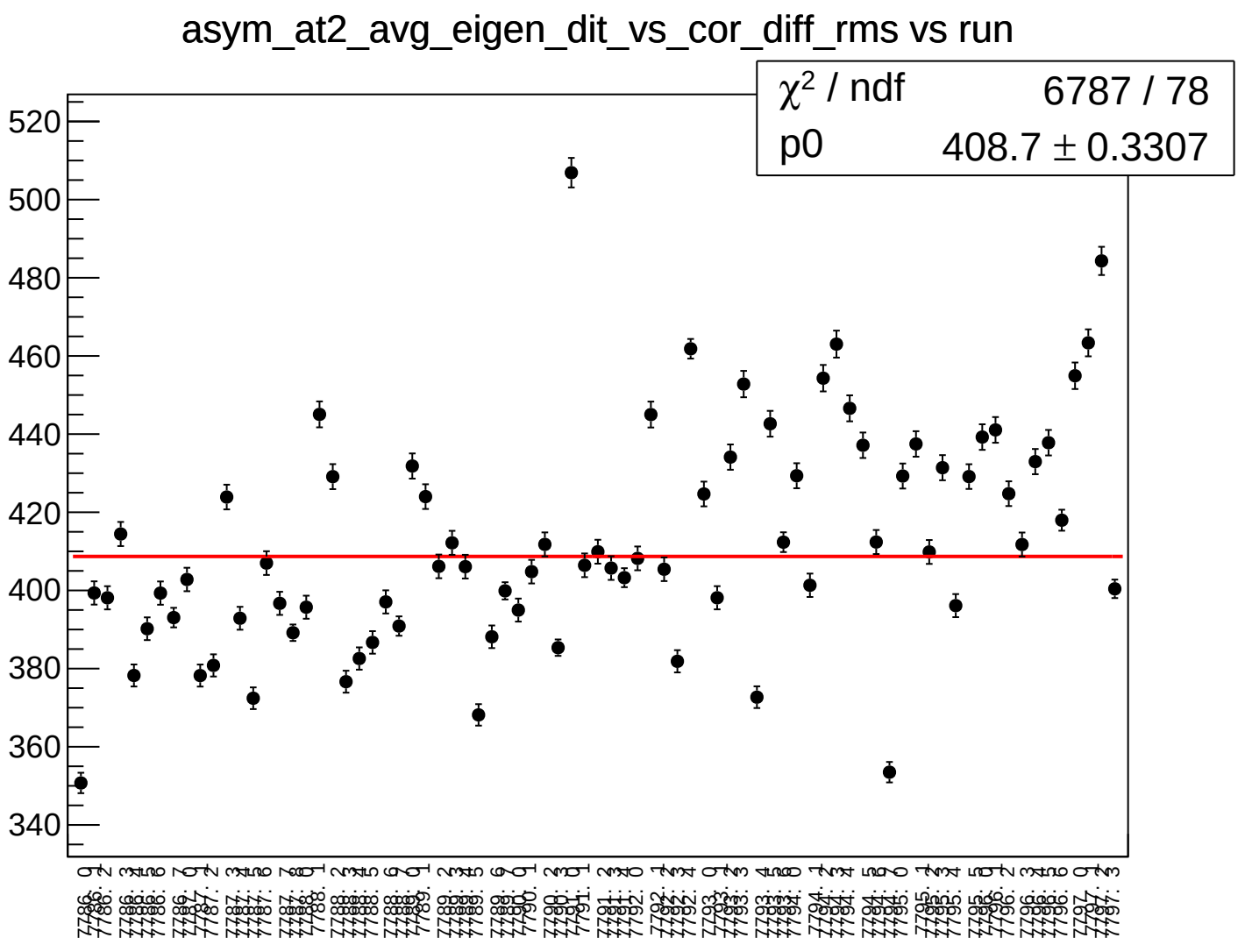

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.82 / 78
p0 −1.837e−05 ± 2.994e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 79
Mean −860.7
Std Dev 0

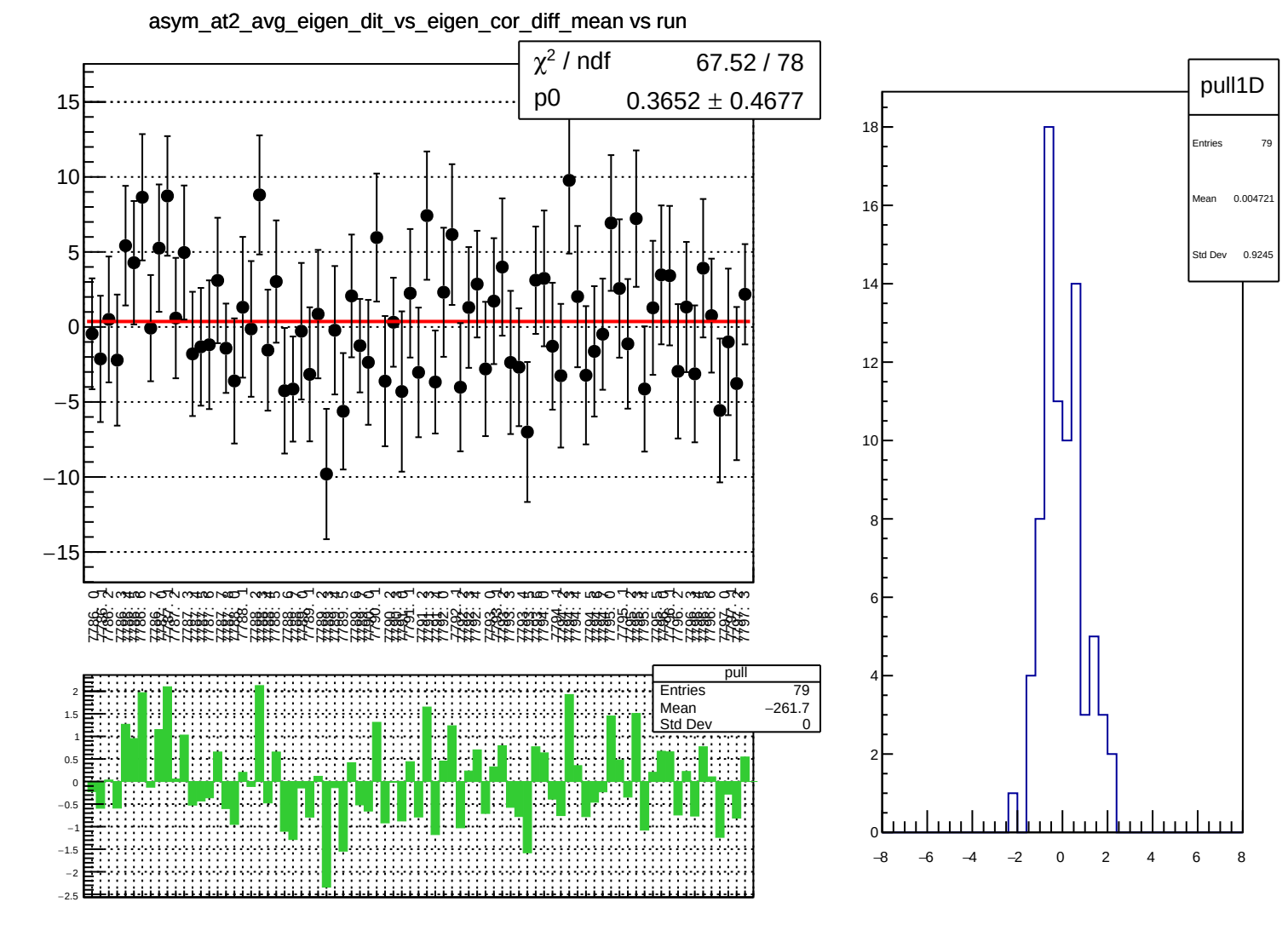

pull1D
Entries 79
Mean −0.005832
Std Dev 0.9731

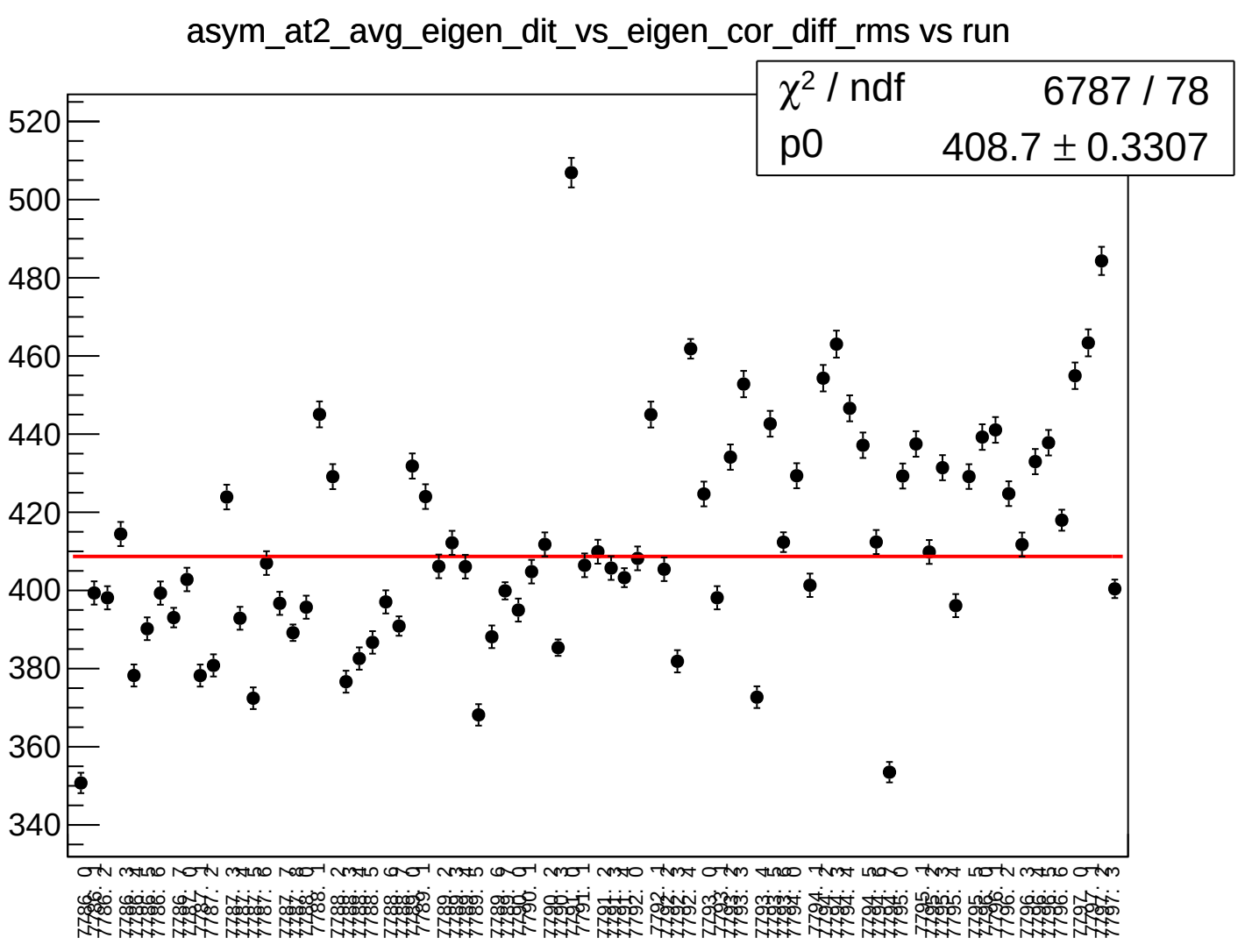

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1850 / 78
p0 0.0262 ± 2.117e−05
0.028
0.027
0.026
0.025
0.024
0.023

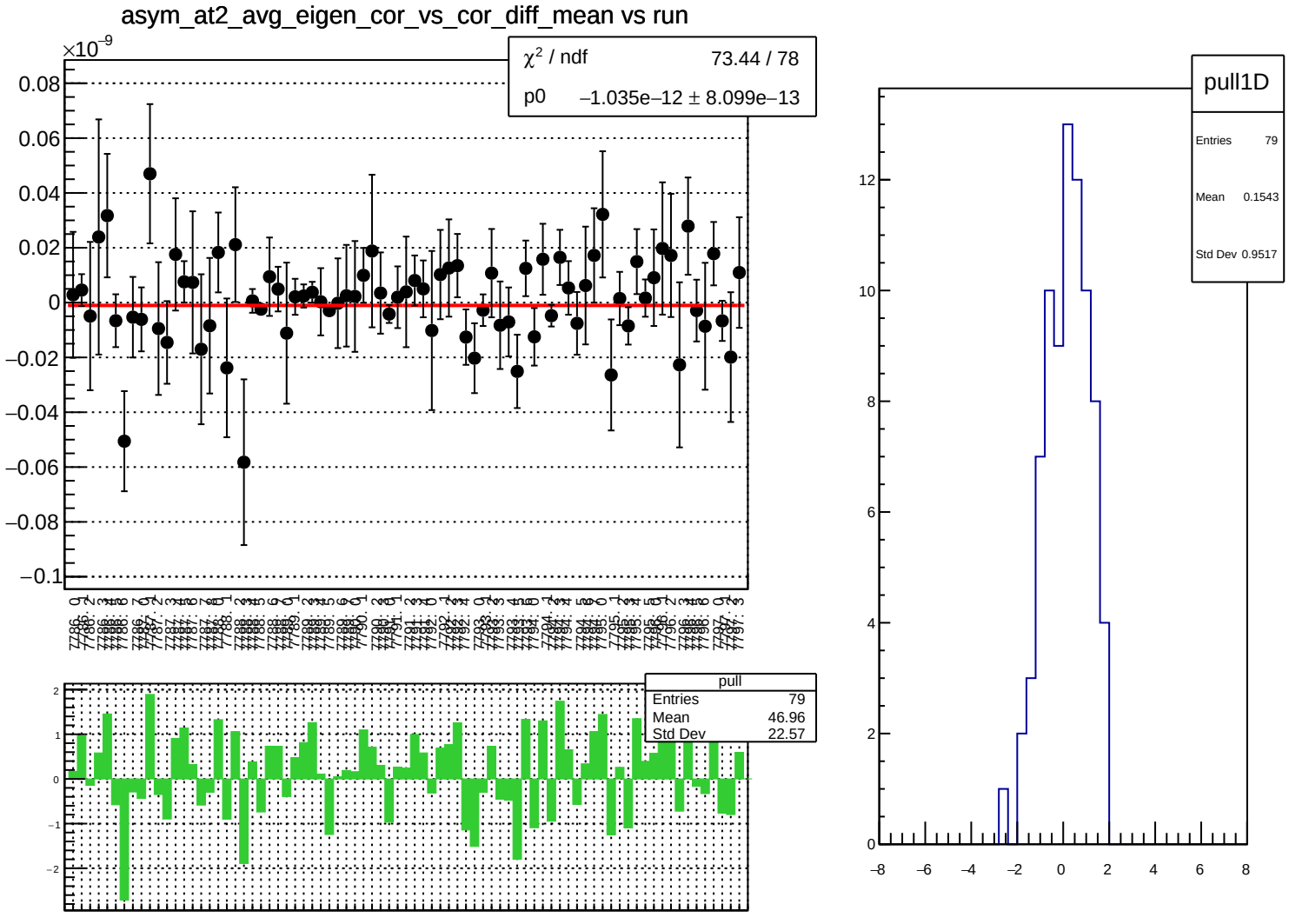

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.52 / 78
p0 0.3652 ± 0.4677
pull
Entries 79
Mean −261.7
Std Dev 0

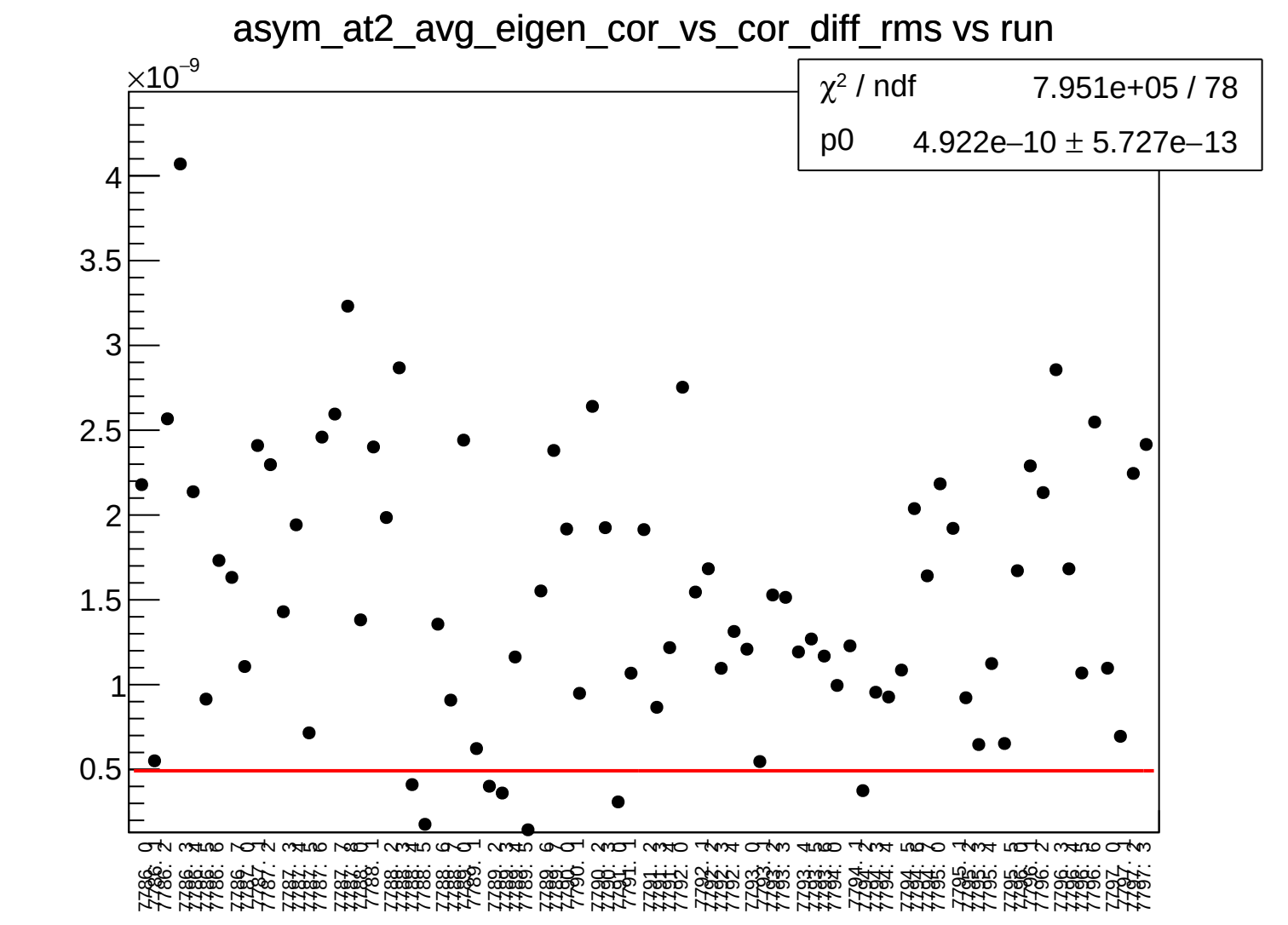

pull1D
Entries 79
Mean 0.004721
Std Dev 0.9245

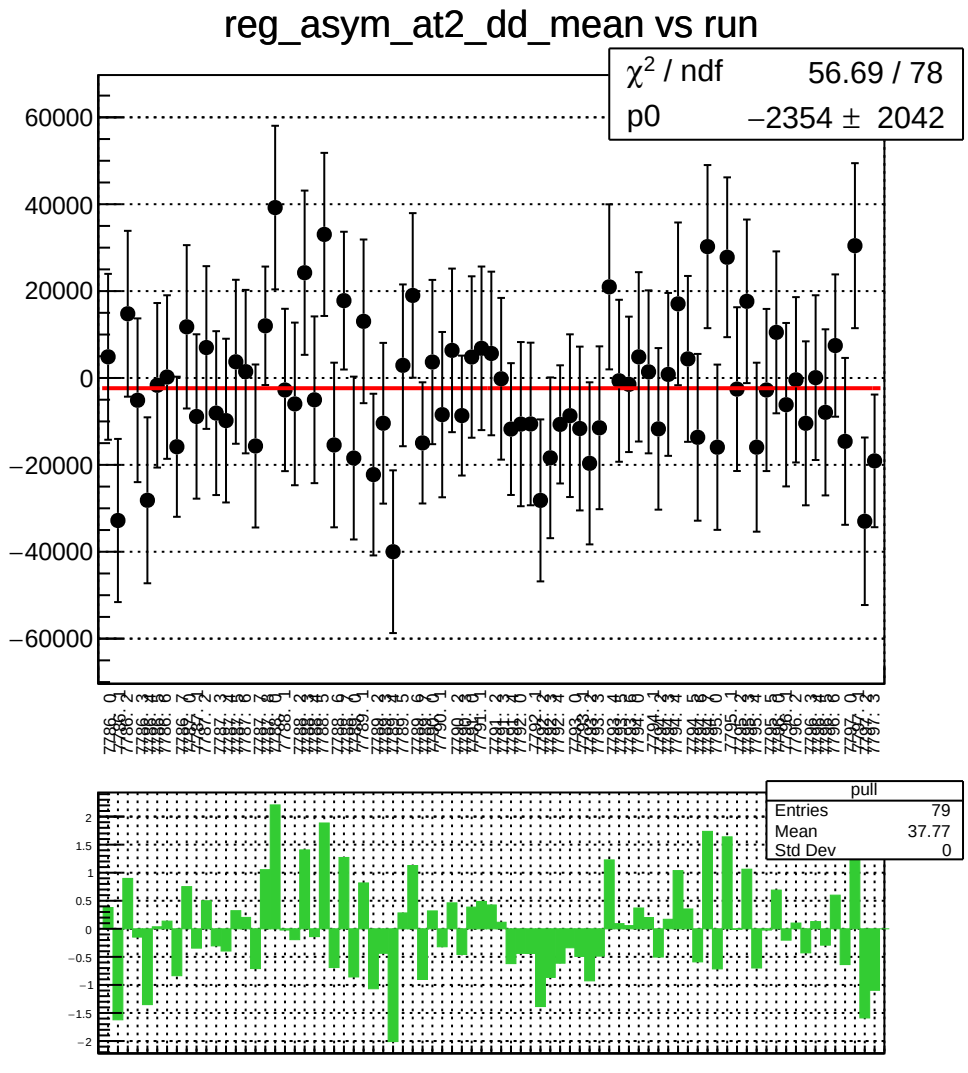

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6787 / 78
p0 408.7 ± 0.3307
520
500
480
460
440
420
400
380
360
340

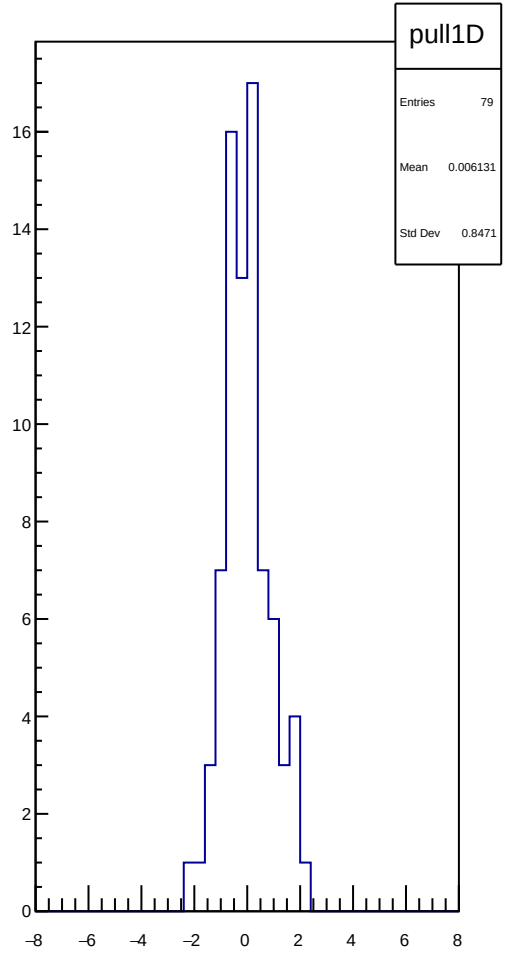

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.52 / 78
p0 0.3652 ± 0.4677
pull
Entries 79
Mean −261.7
Std Dev 0
pull1D
Entries 79
Mean 0.004721
Std Dev 0.9245

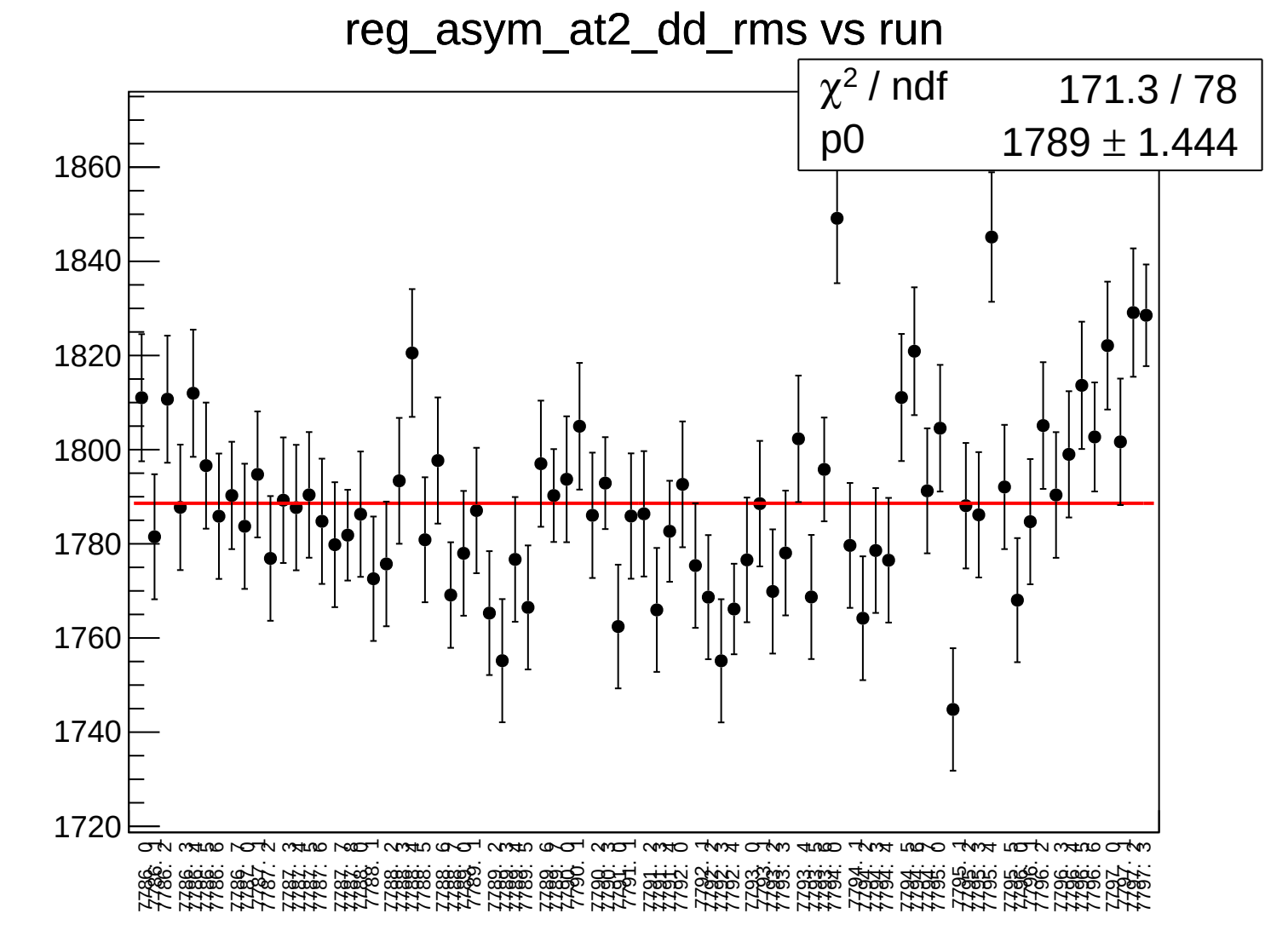

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6787 / 78
p0 408.7 ± 0.3307
520
500
480
460
440
420
400
380
360
340

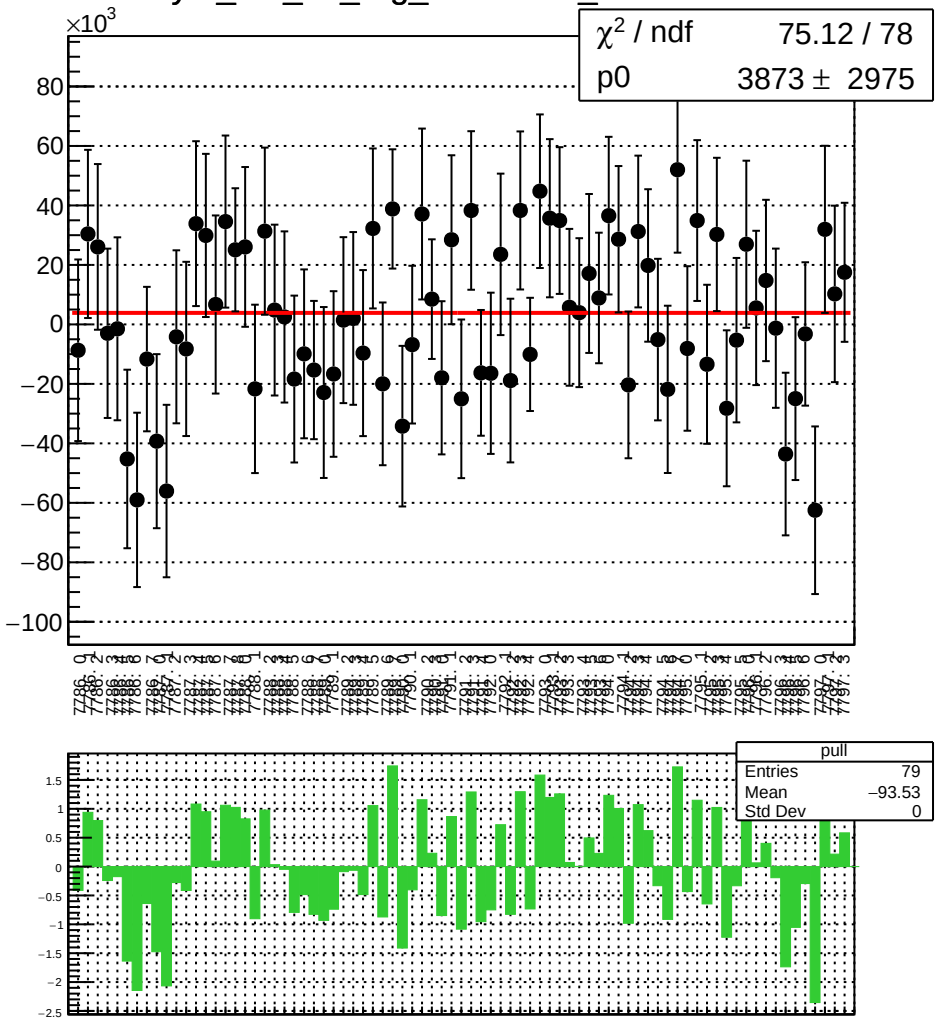

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 73.44 / 78
p0 −1.035e−12 ± 8.099e−13
pull
Entries 79
Mean 46.96
Std Dev 22.57
pull1D
Entries 79
Mean 0.1543
Std Dev 0.9517

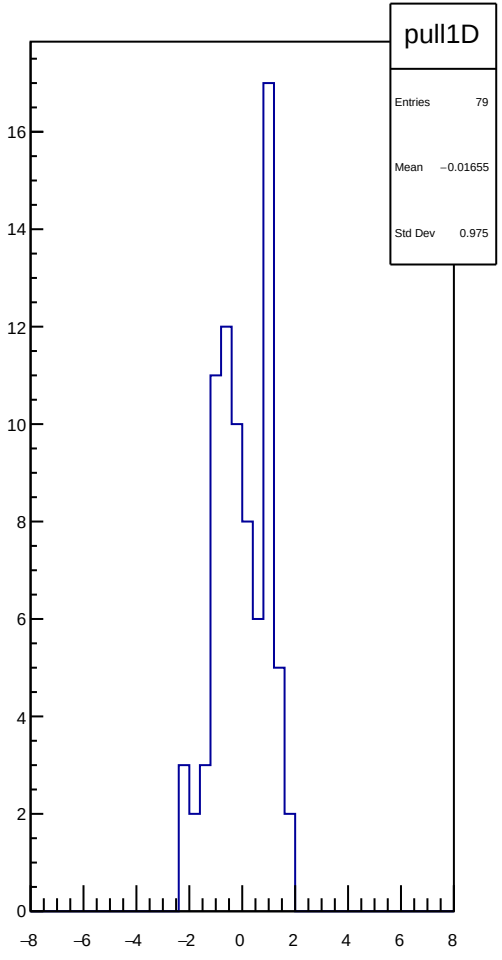

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.951e+05 / 78
p0 4.922e−10 ± 5.727e−13
4
3.5
3
2.5
2
1.5
1
0.5

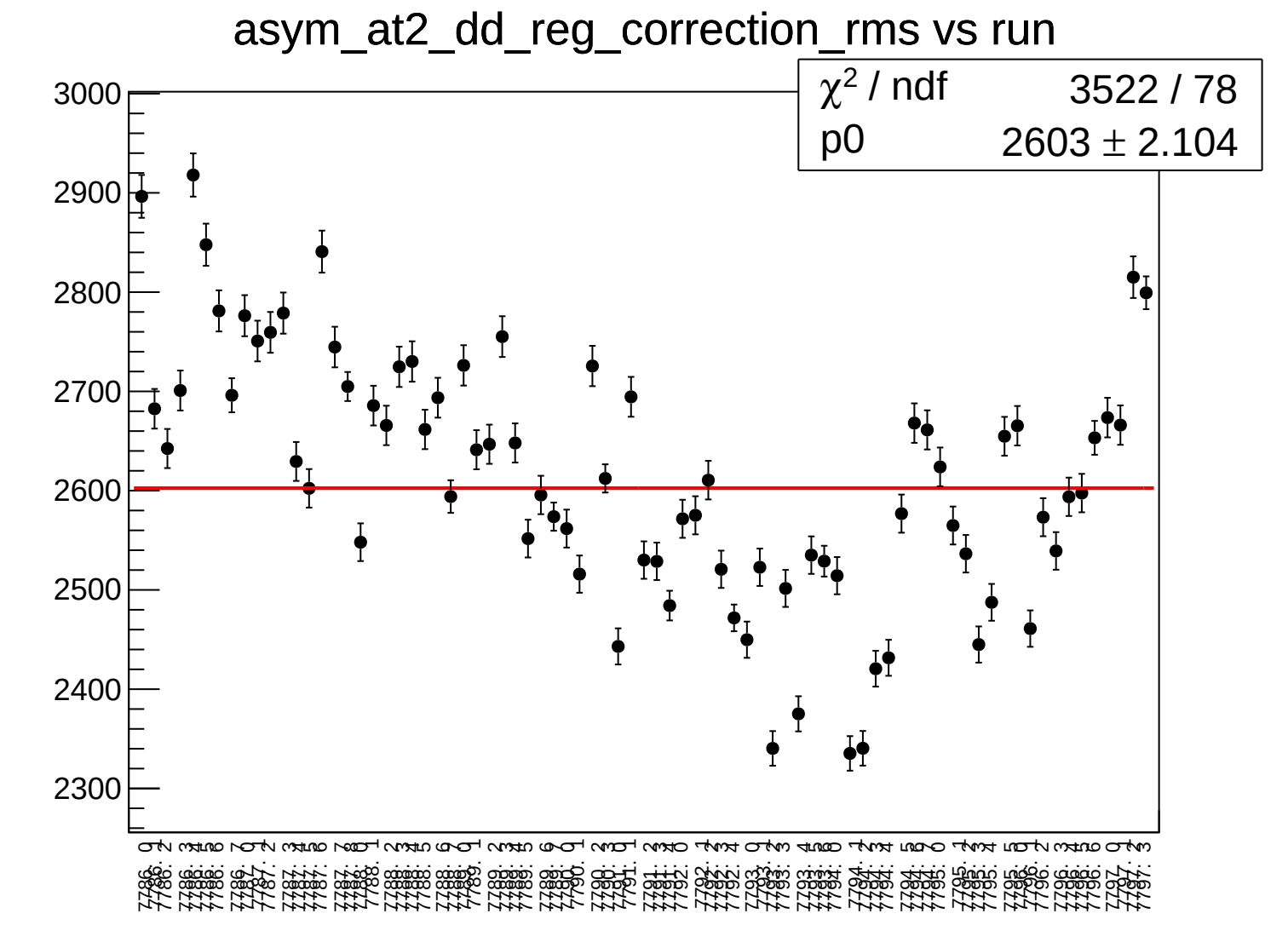

reg_asym_at2_dd_mean vs run
χ² / ndf 56.69 / 78
p0 −2354 ± 2042
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 37.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

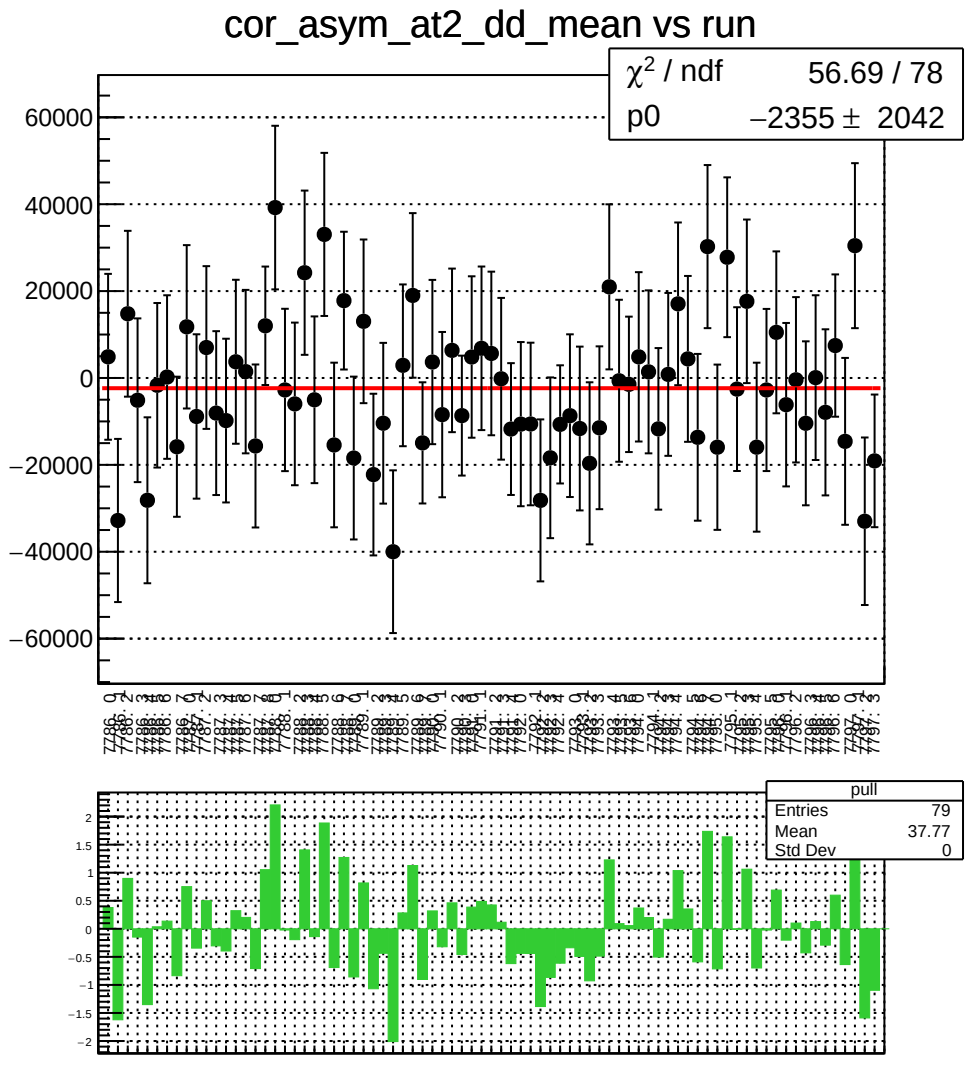

pull1D
Entries 79
Mean 0.006131
Std Dev 0.8471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

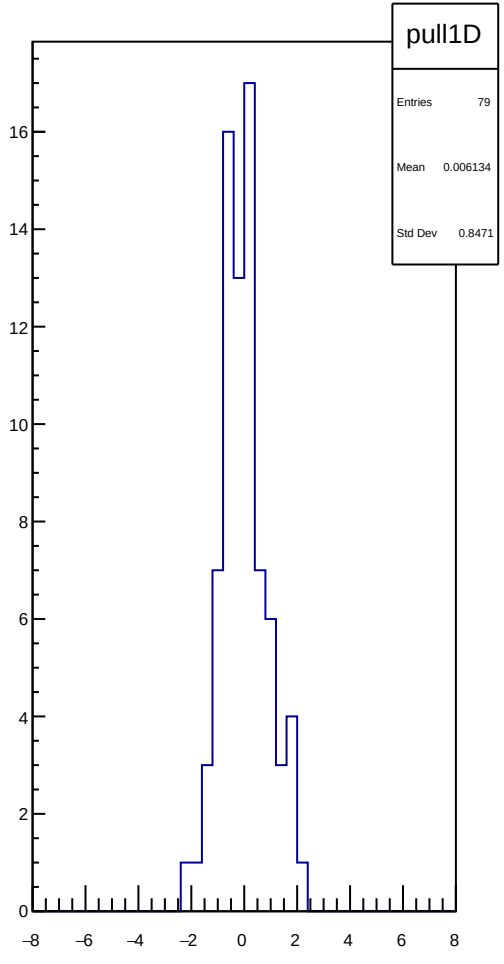

reg_asym_at2_dd_rms vs run
χ^2 / ndf 171.3 / 78
p0 1789 ± 1.444
1860
1840
1820
1800
1780
1760
1740
1720

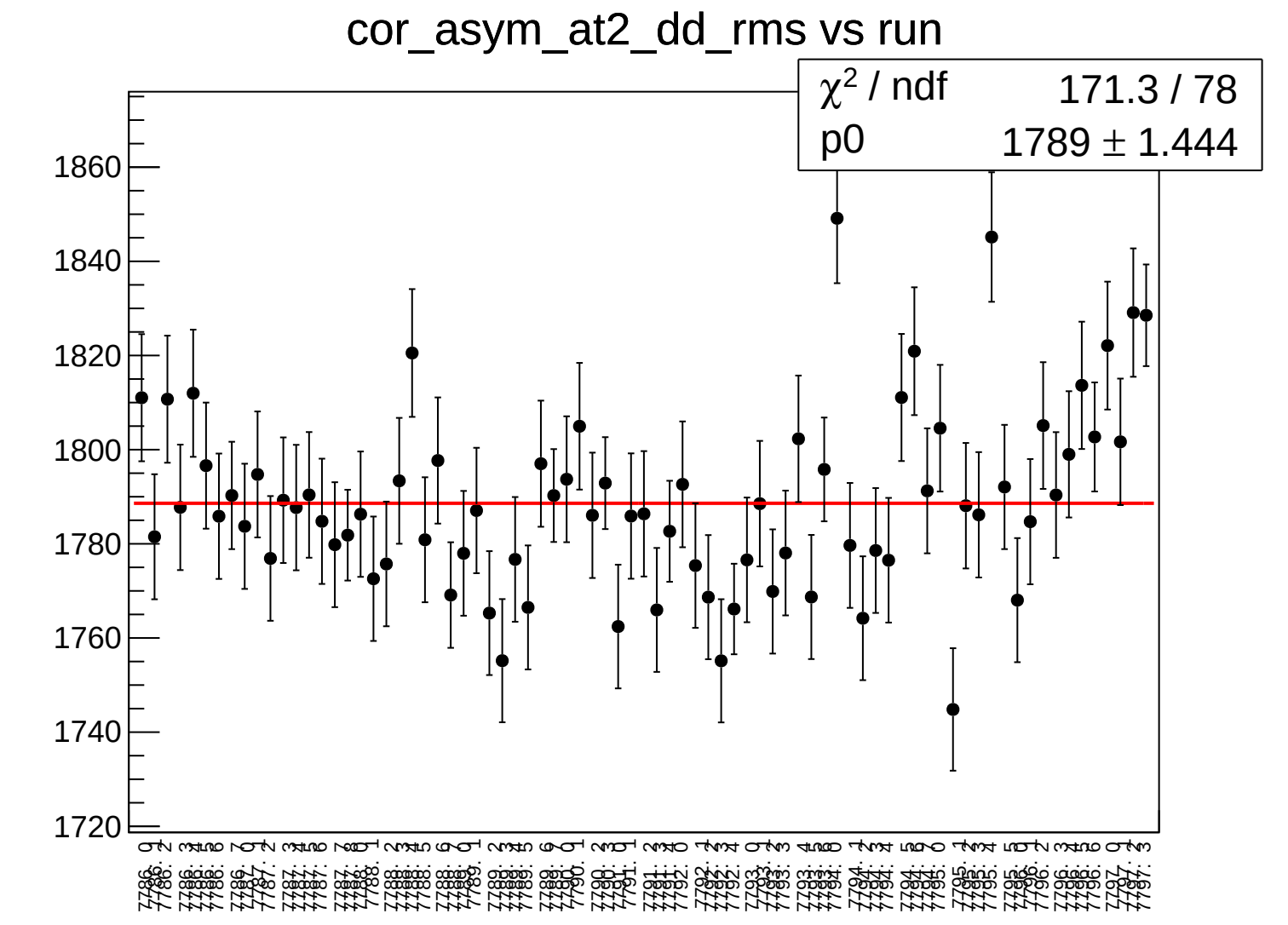

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 75.12 / 78
p0 3873 ± 2975
×10³
pull
Entries 79
Mean −93.53
Std Dev 0

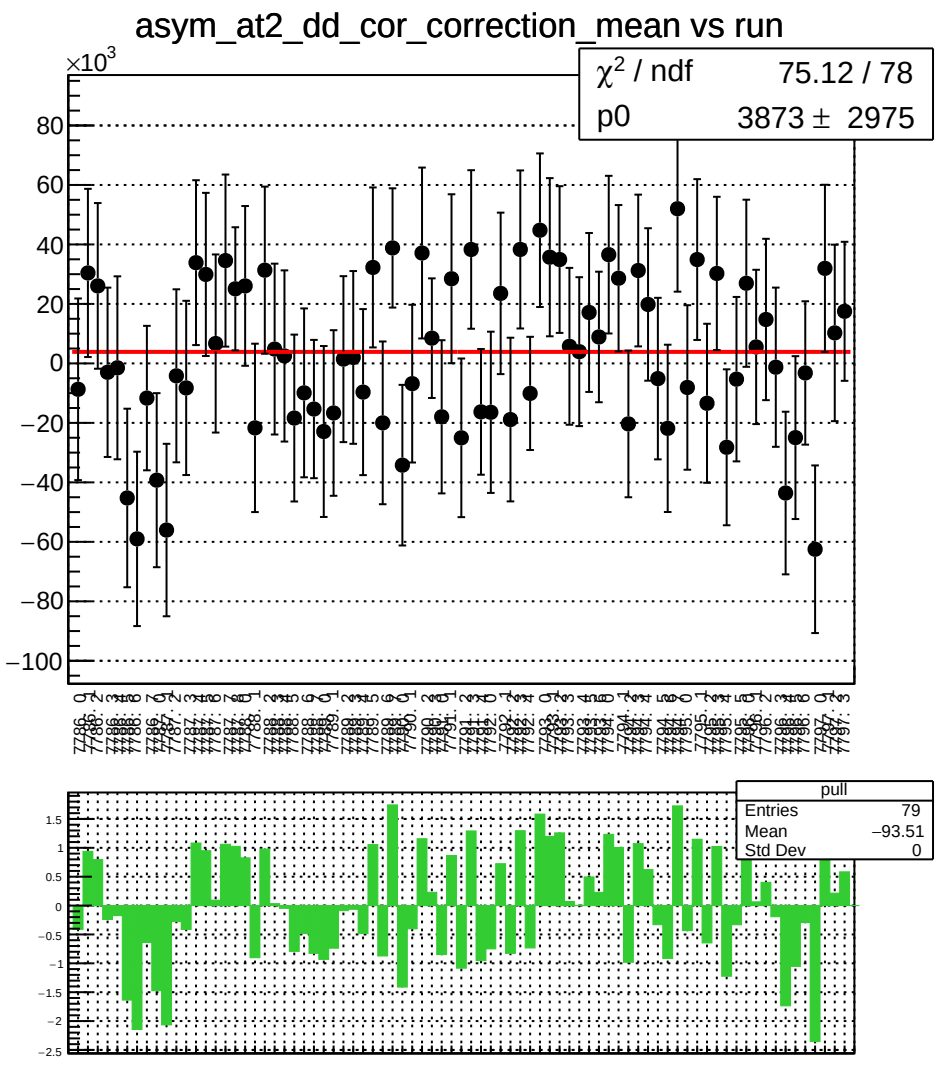

pull1D
Entries 79
Mean −0.01655
Std Dev 0.975

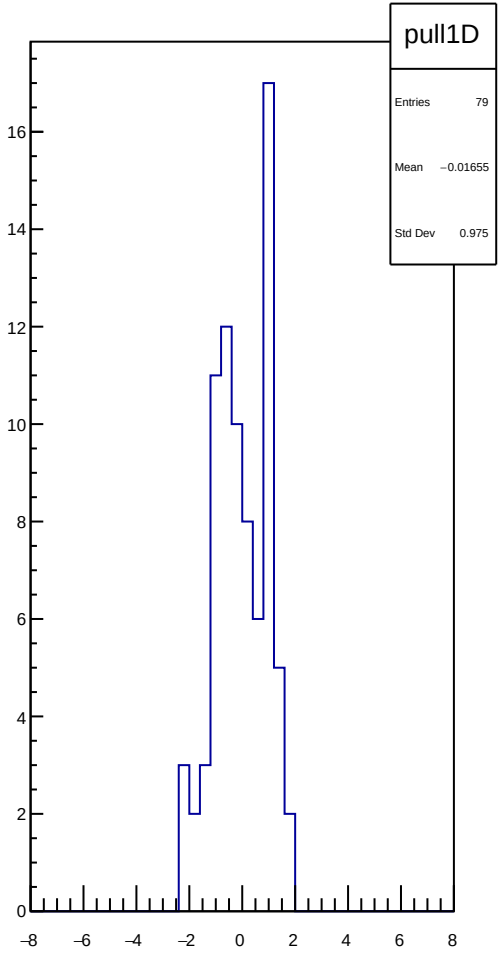

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 3522 / 78
p0 2603 ± 2.104
3000
2900
2800
2700
2600
2500
2400
2300

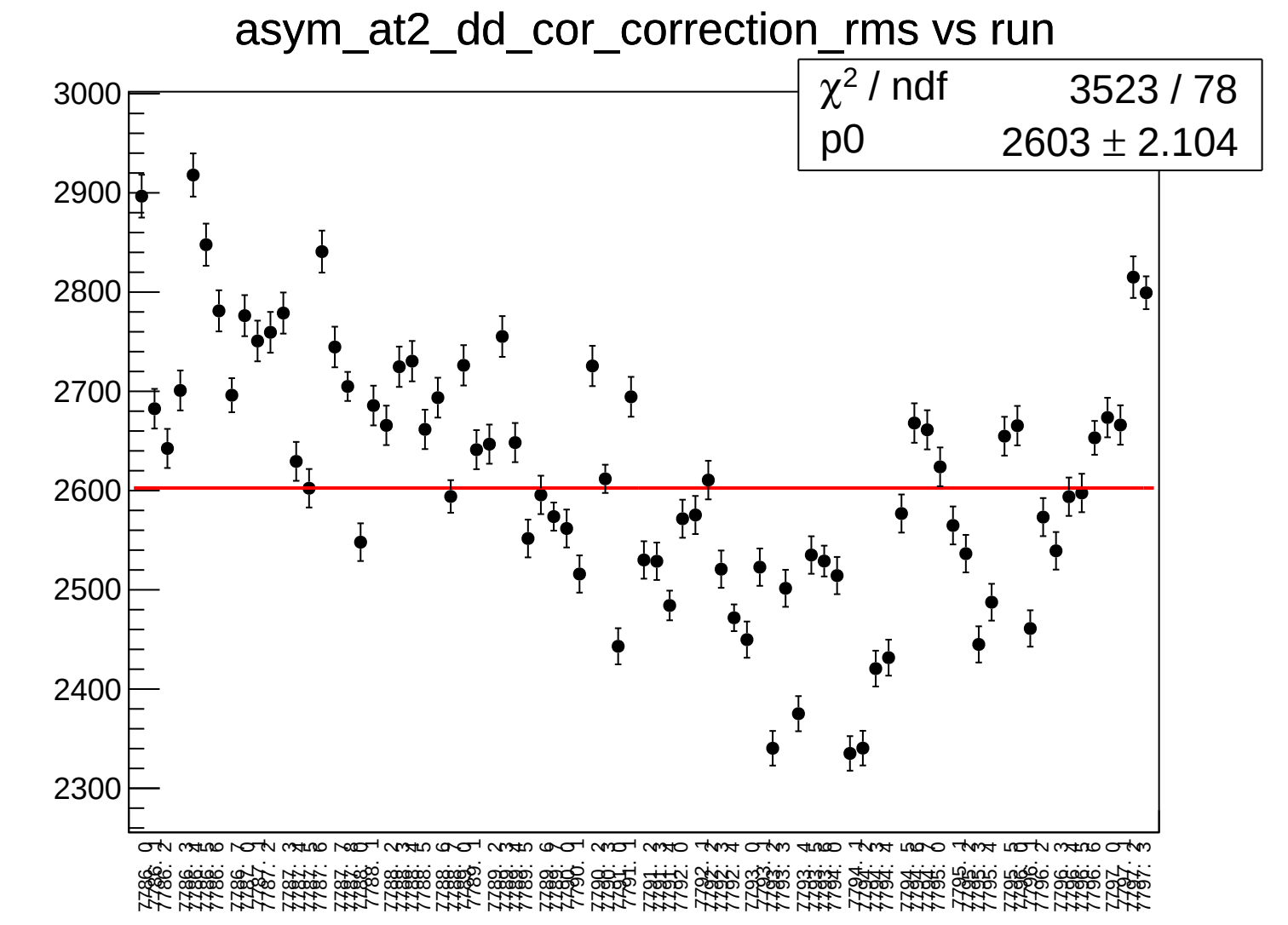

cor_asym_at2_dd_mean vs run
χ² / ndf 56.69 / 78
p0 −2355 ± 2042
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 37.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

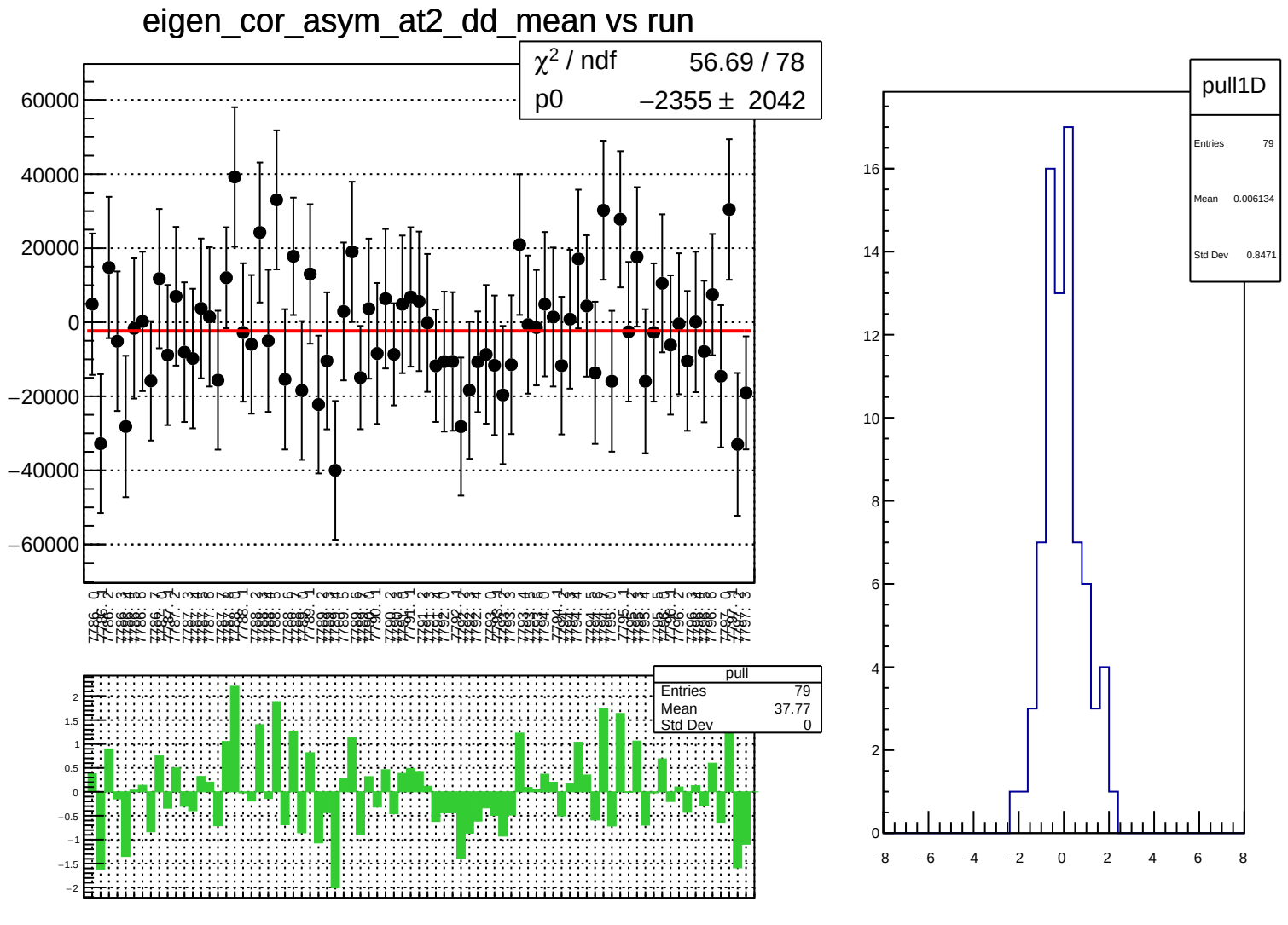

pull1D
Entries 79
Mean 0.006134
Std Dev 0.8471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

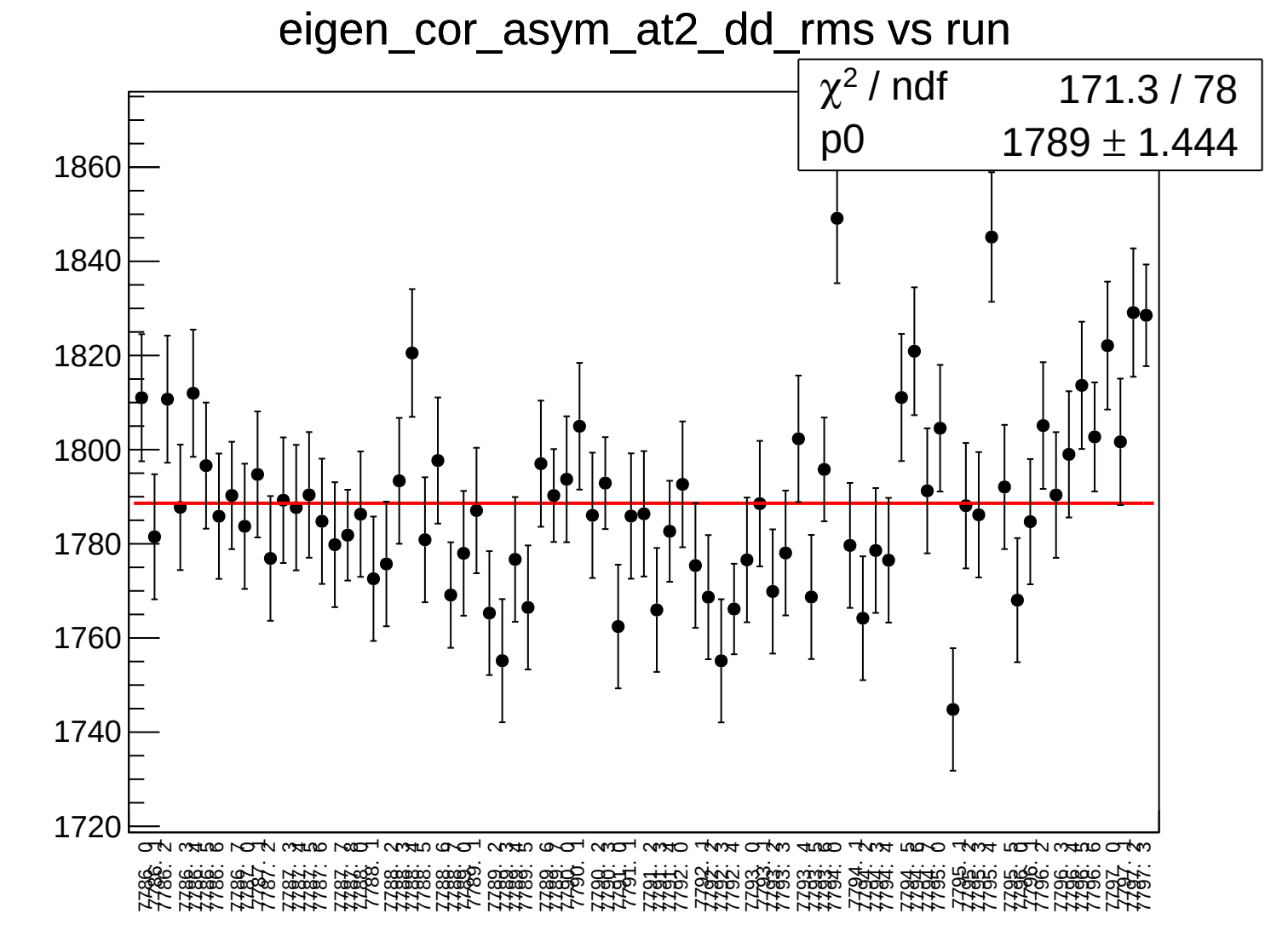

cor_asym_at2_dd_rms vs run
χ² / ndf 171.3 / 78
p0 1789 ± 1.444
1860
1840
1820
1800
1780
1760
1740
1720

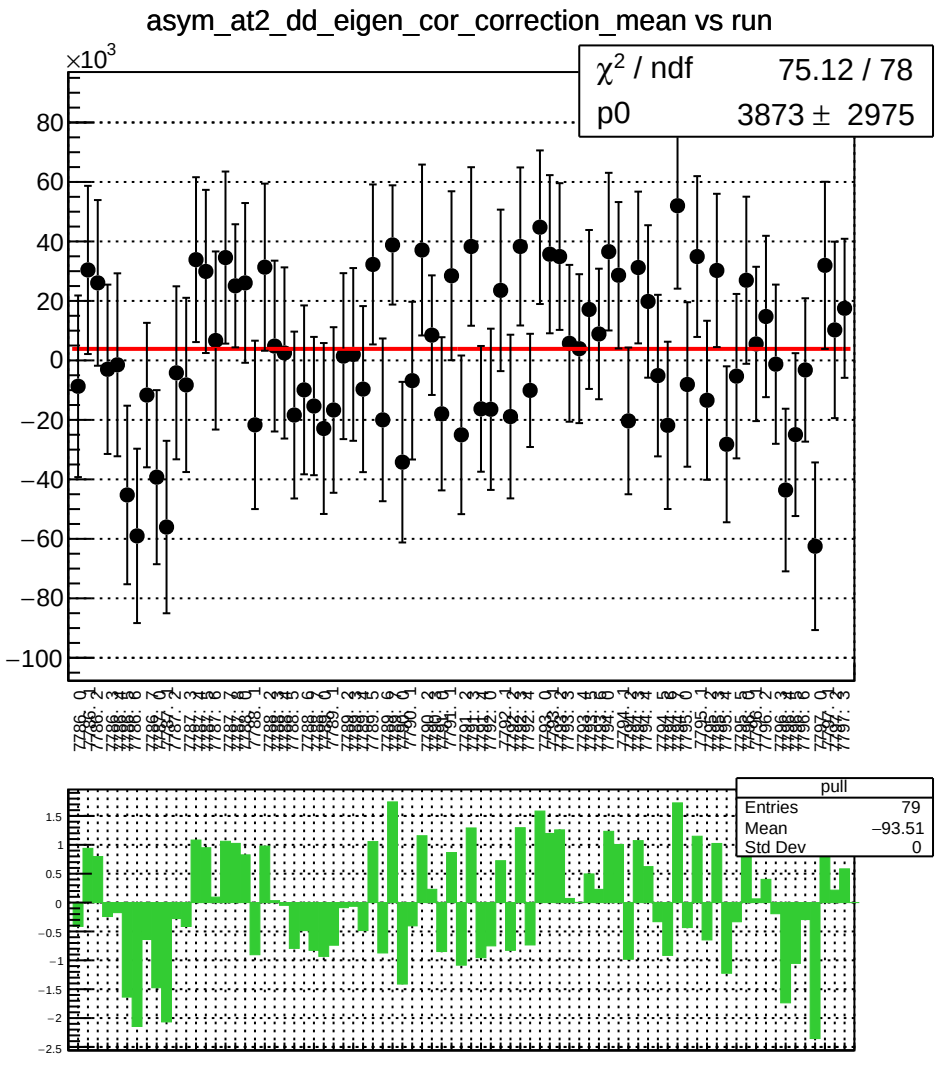

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 75.12 / 78
p0 3873 ± 2975
×10³
pull
Entries 79
Mean −93.51
Std Dev 0

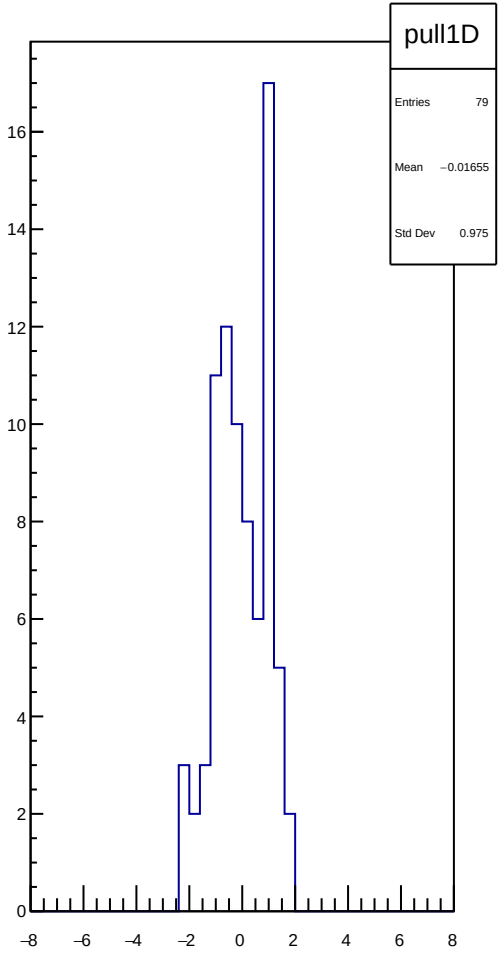

pull1D
Entries 79
Mean −0.01655
Std Dev 0.975

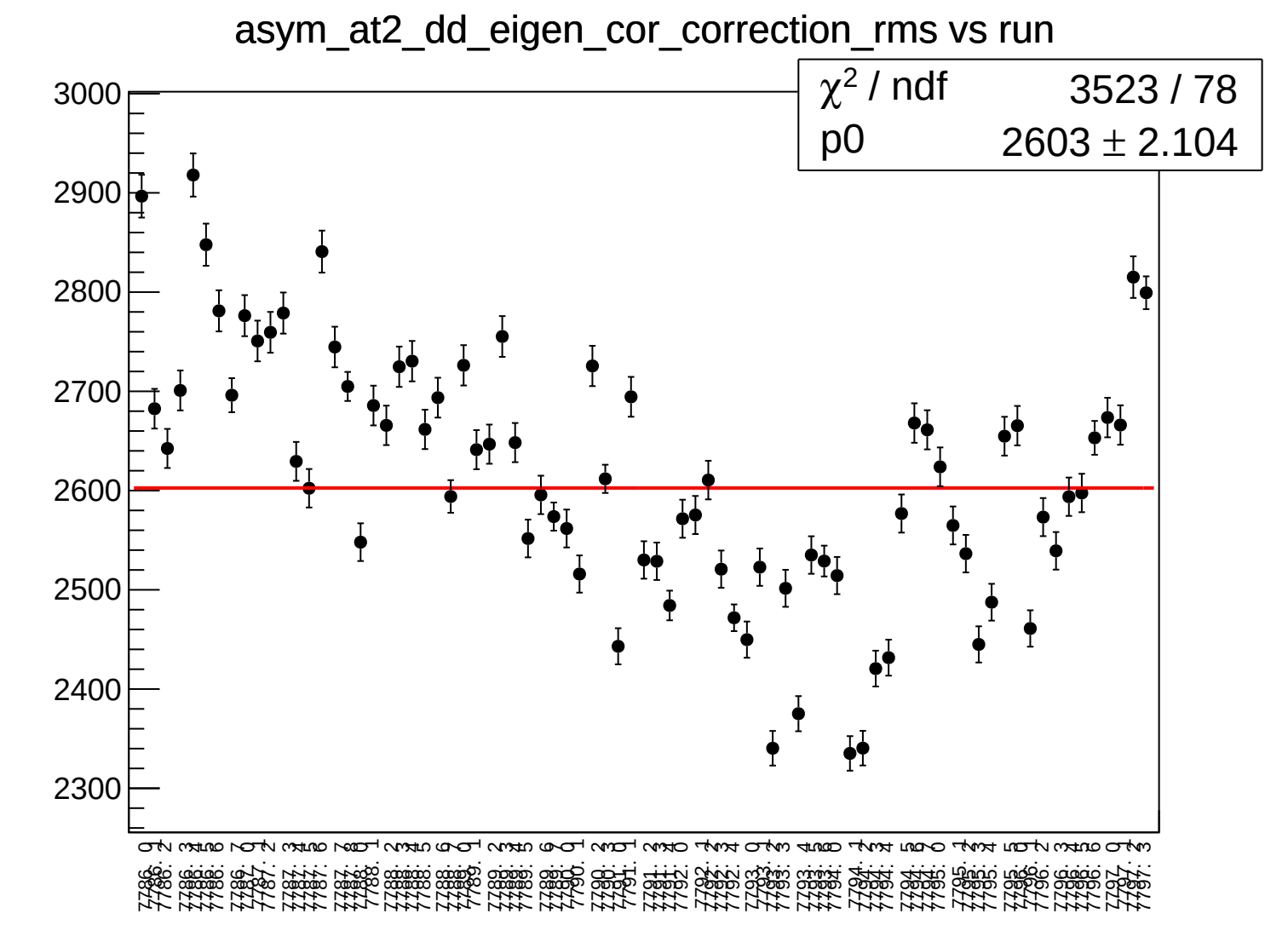

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 3523 / 78
p0 2603 ± 2.104
3000
2900
2800
2700
2600
2500
2400
2300

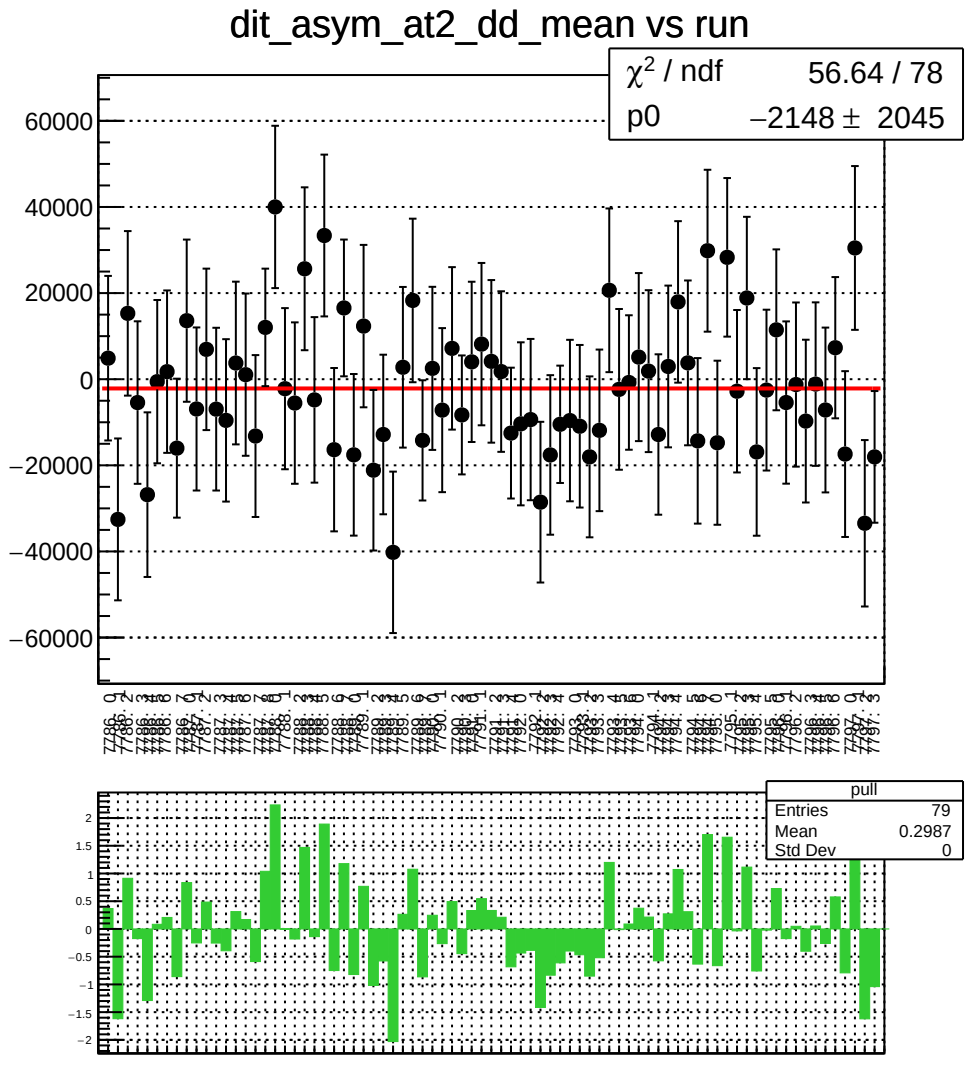

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 56.69 / 78
p0 −2355 ± 2042
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 37.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 79
Mean 0.006134
Std Dev 0.8471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

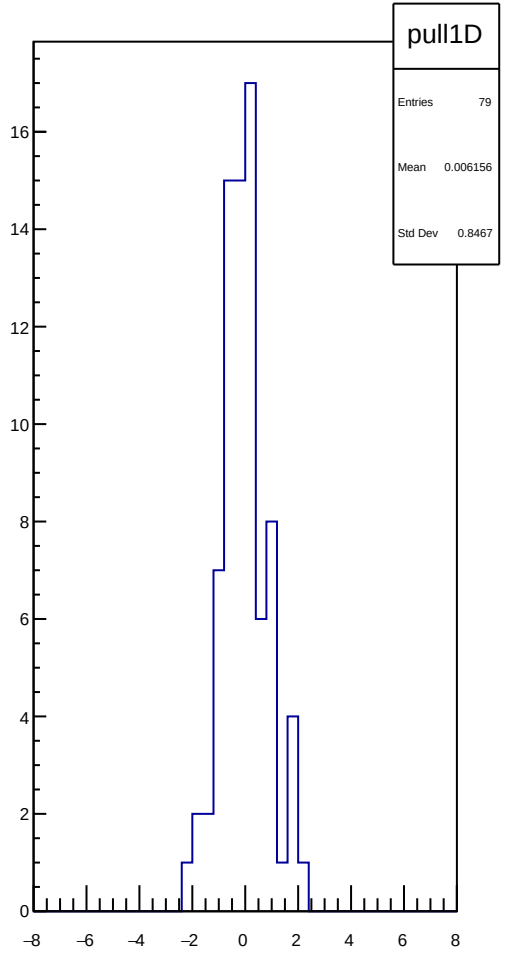

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 171.3 / 78
p0 1789 ± 1.444
1860
1840
1820
1800
1780
1760
1740
1720

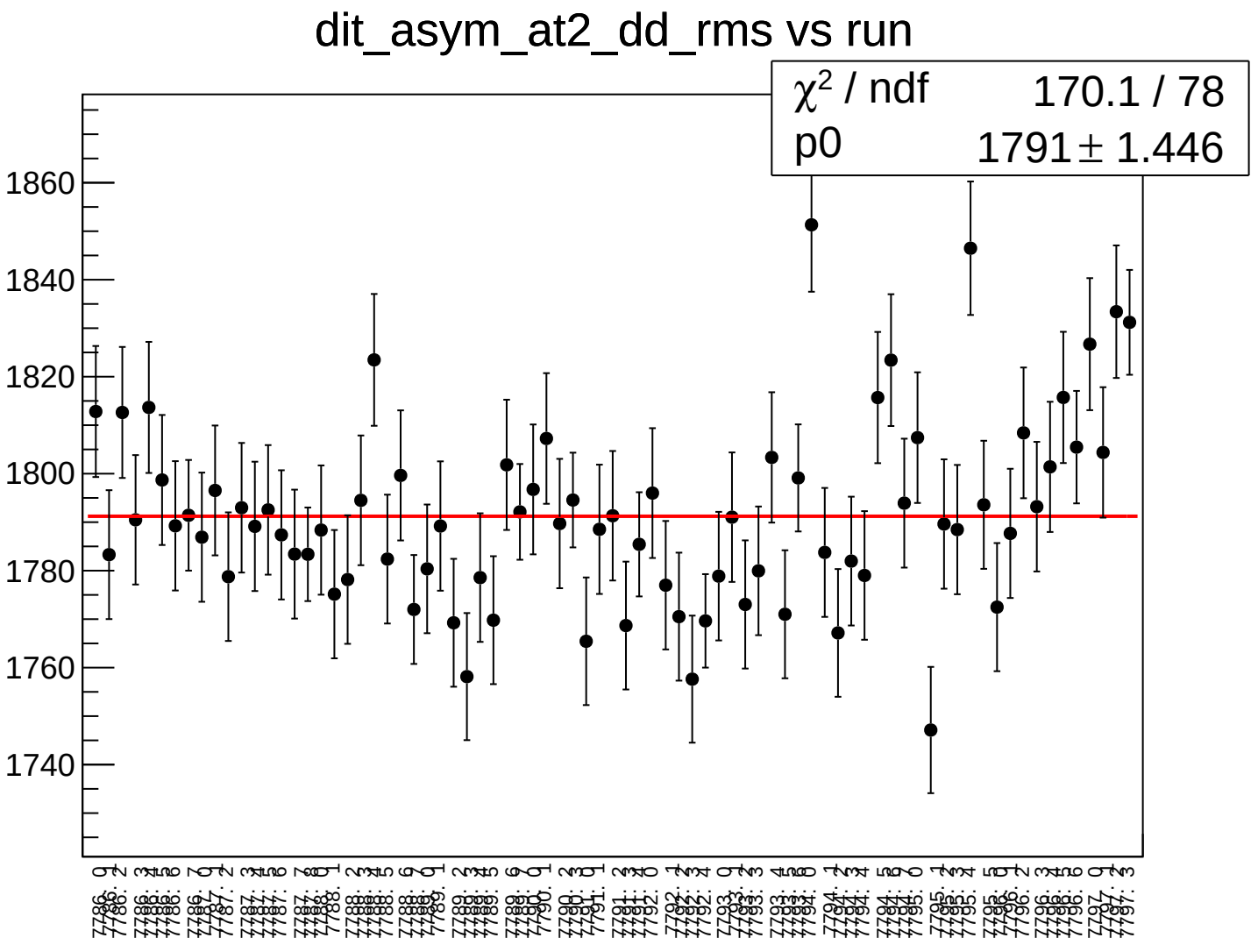

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.12 / 78
p0 3873 ± 2975
×10³
pull
Entries 79
Mean −93.51
Std Dev 0

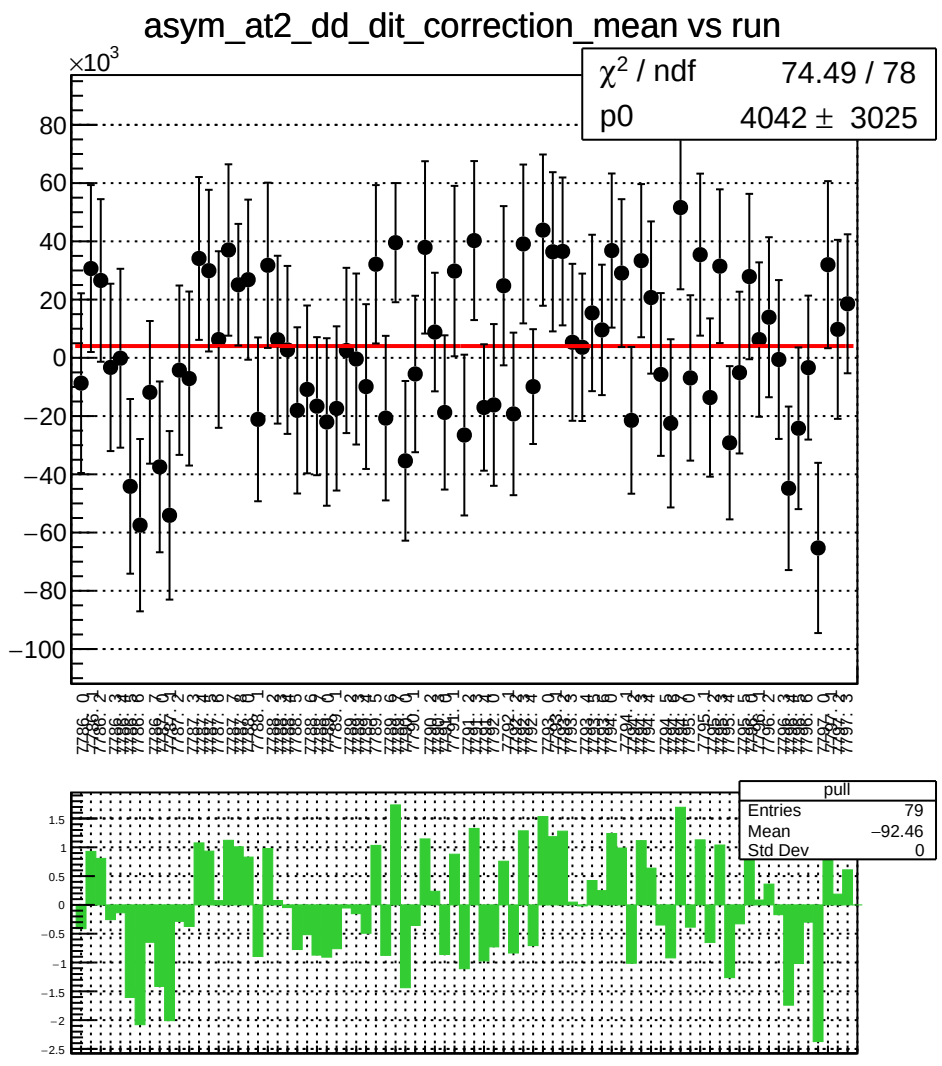

pull1D
Entries 79
Mean −0.01655
Std Dev 0.975

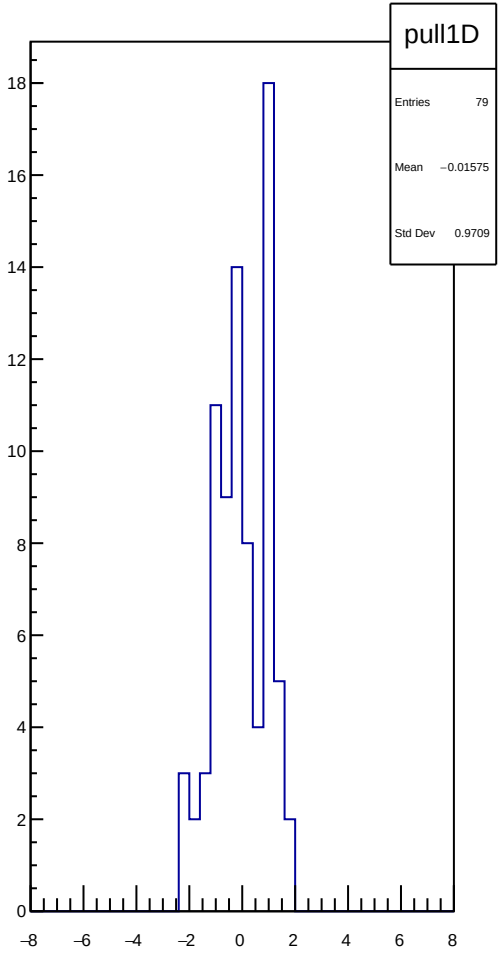

asym_at2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 3523 / 78
p0 2603 ± 2.104
3000
2900
2800
2700
2600
2500
2400
2300

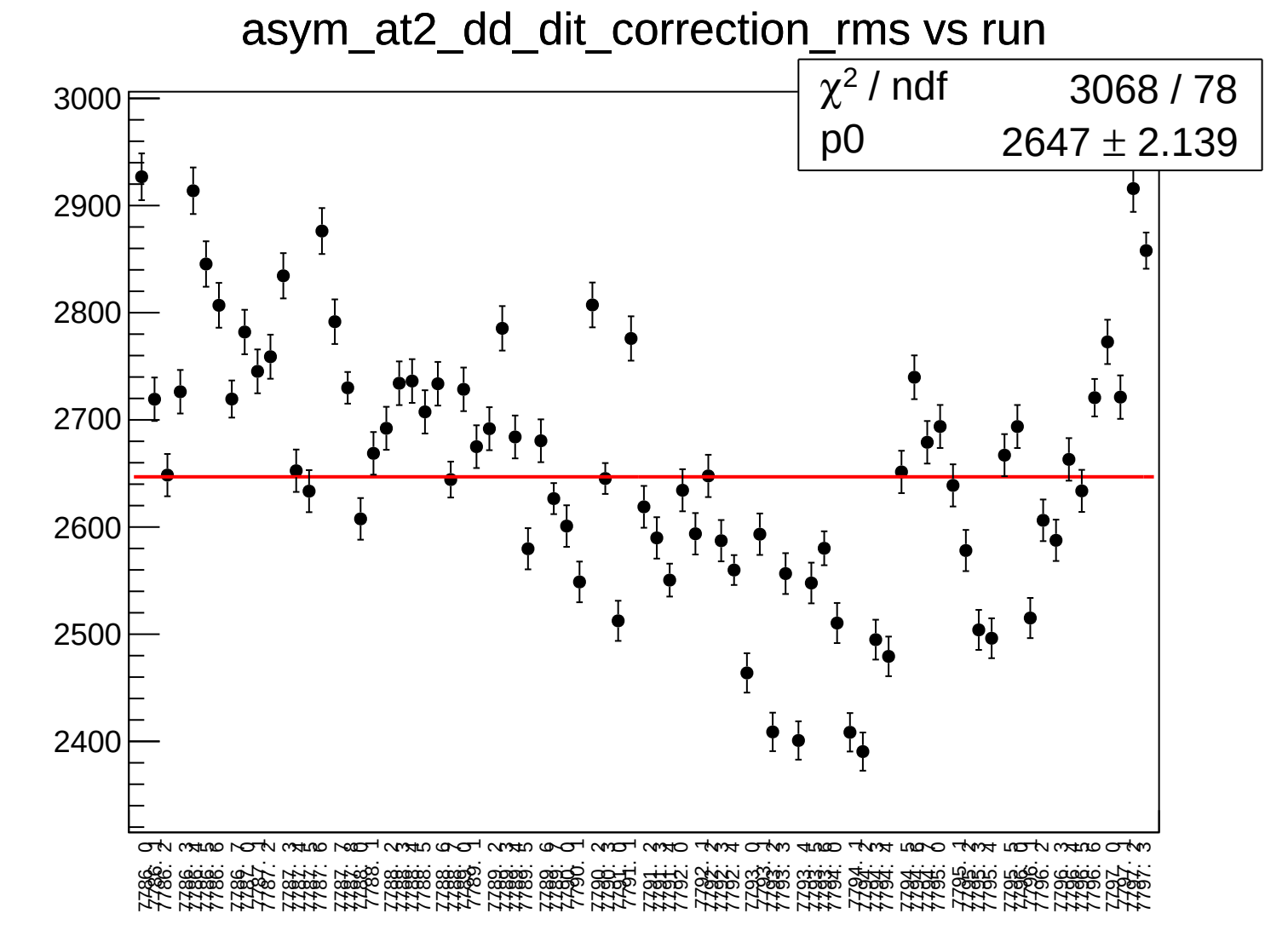

dit_asym_at2_dd_mean vs run
χ² / ndf 56.64 / 78
p0 −2148 ± 2045
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 0.2987
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

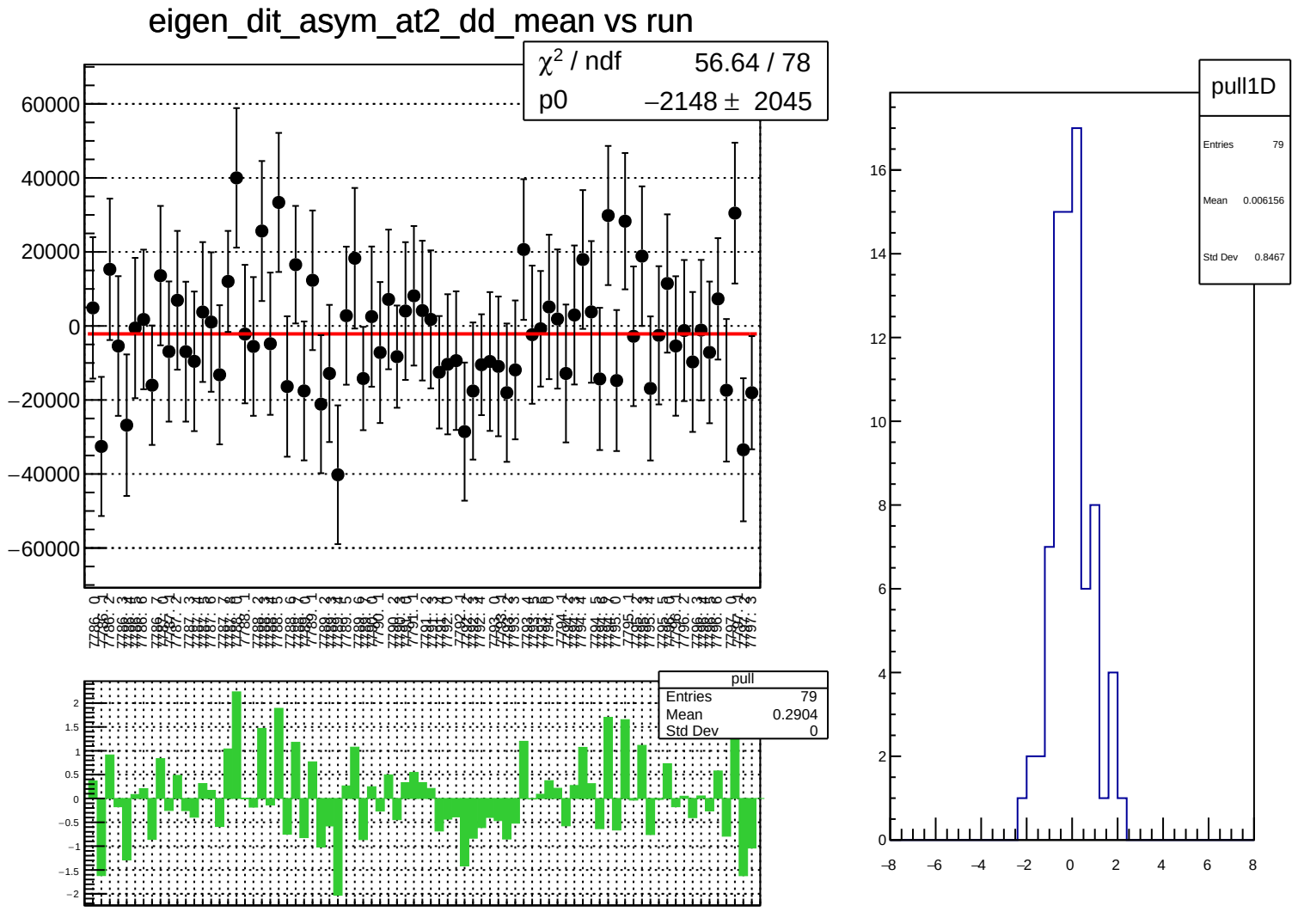

pull1D
Entries 79
Mean 0.006156
Std Dev 0.8467
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

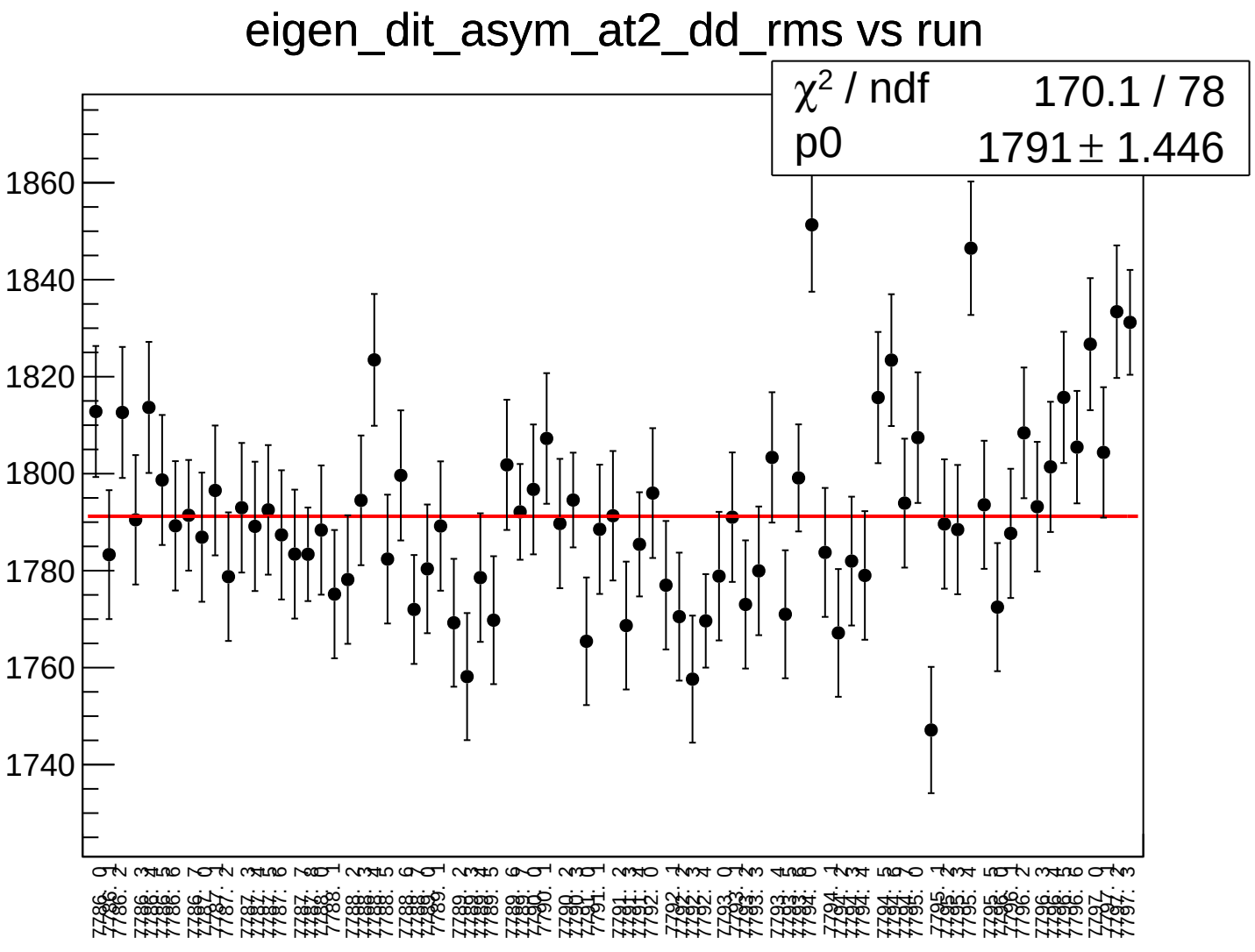

dit_asym_at2_dd_rms vs run
χ² / ndf 170.1 / 78
p0 1791 ± 1.446
1860
1840
1820
1800
1780
1760
1740

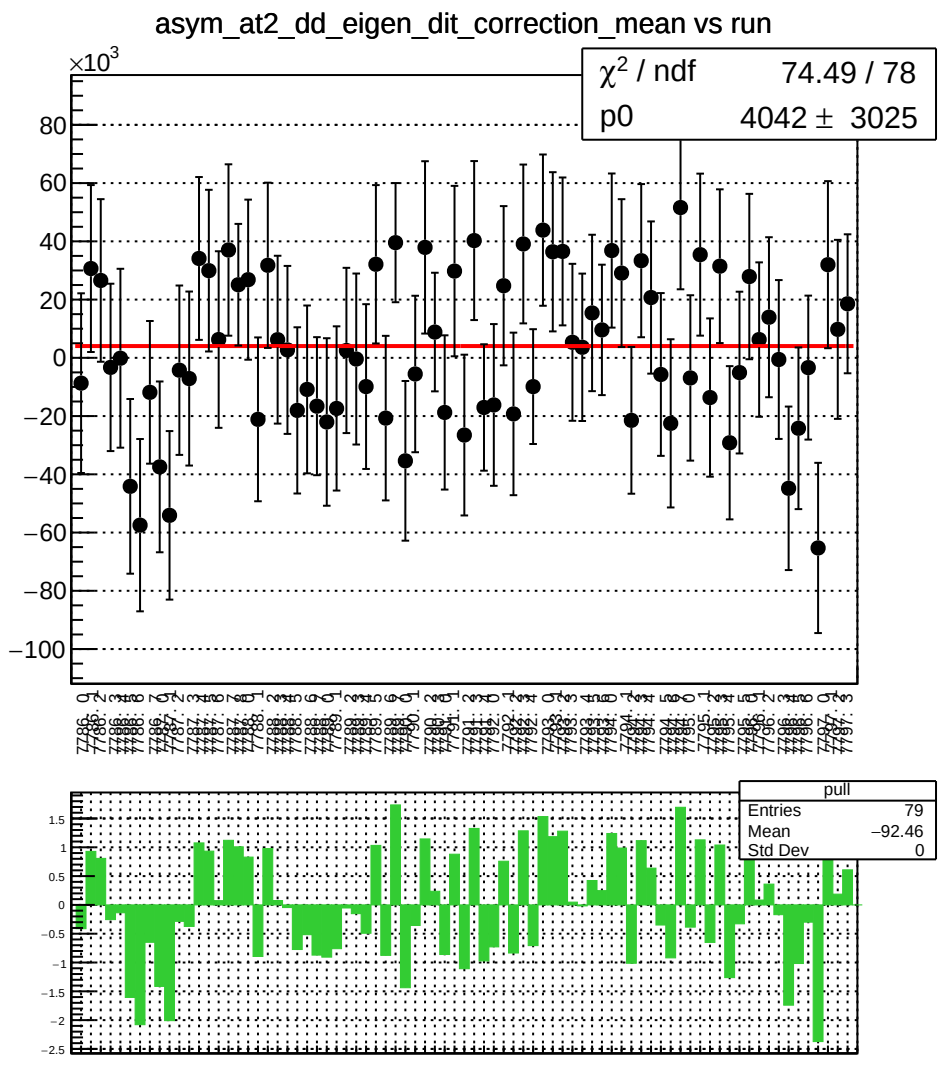

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 74.49 / 78
p0 4042 ± 3025
pull
Entries 79
Mean −92.46
Std Dev 0

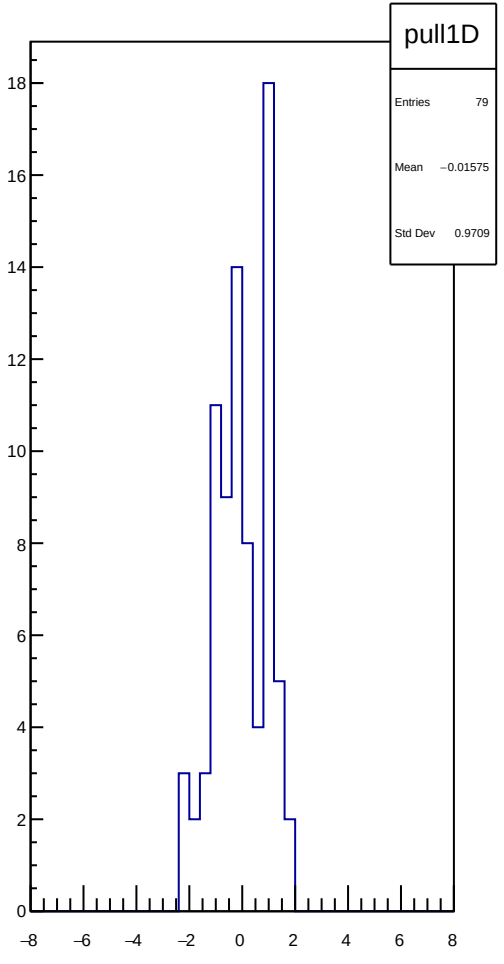

pull1D
Entries 79
Mean −0.01575
Std Dev 0.9709

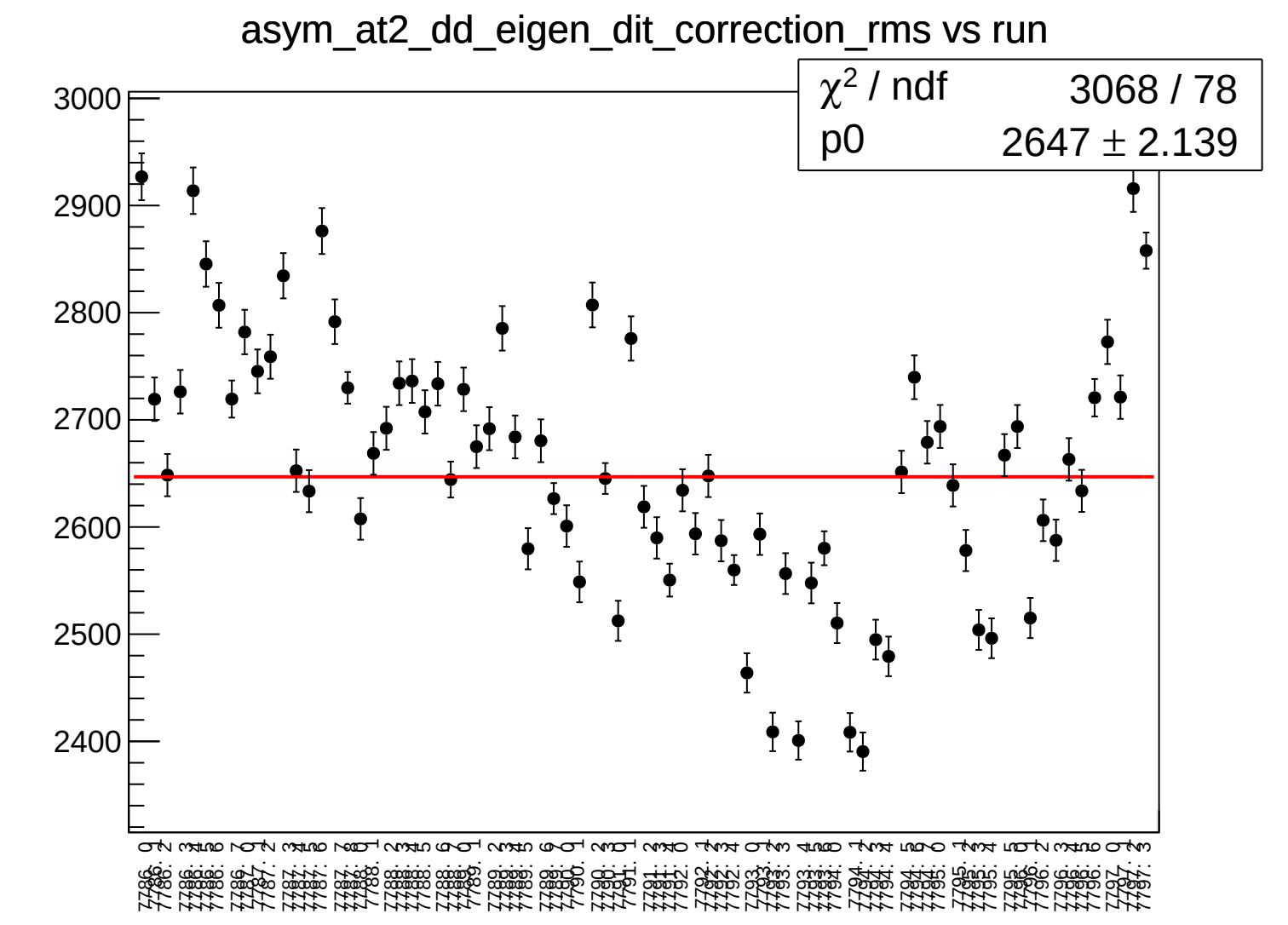

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 3068 / 78
p0 2647 ± 2.139
3000
2900
2800
2700
2600
2500
2400

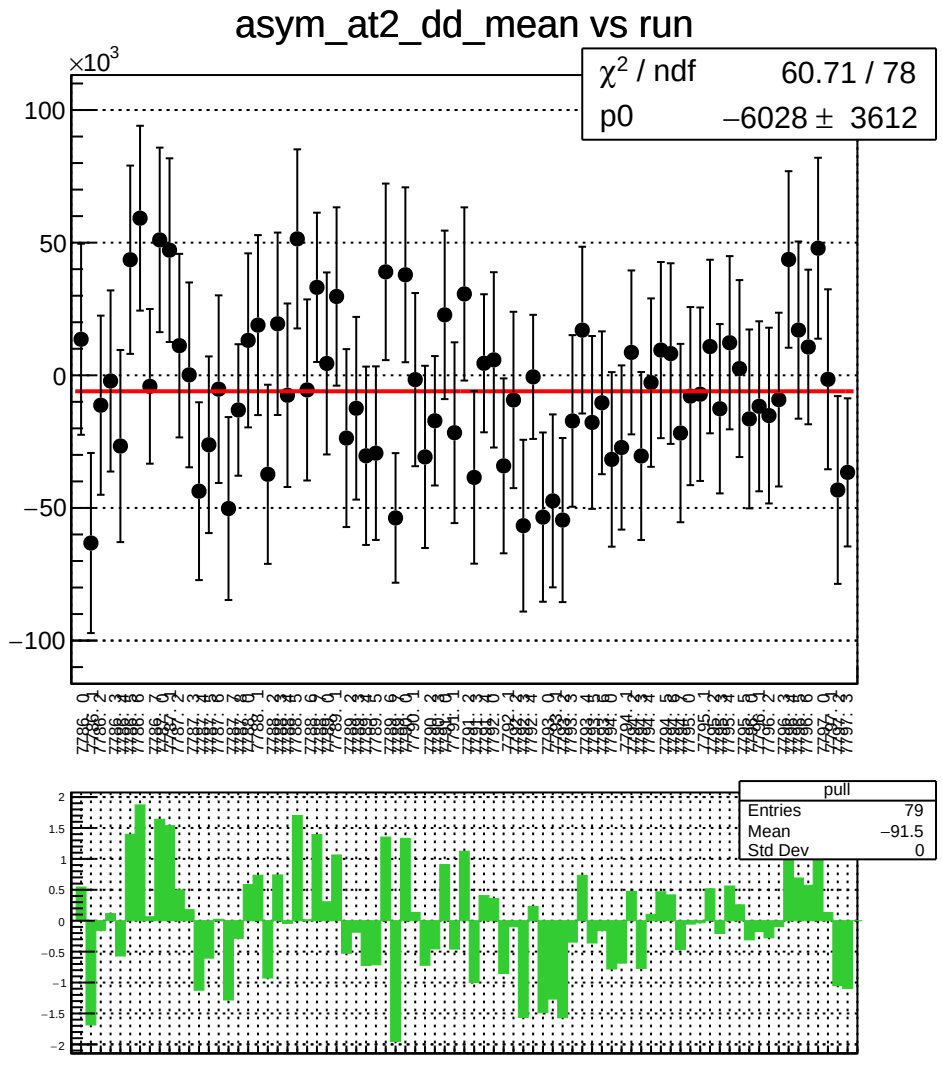

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 56.64 / 78
p0 −2148 ± 2045
pull
Entries 79
Mean 0.2904
Std Dev 0
pull1D
Entries 79
Mean 0.006156
Std Dev 0.8467

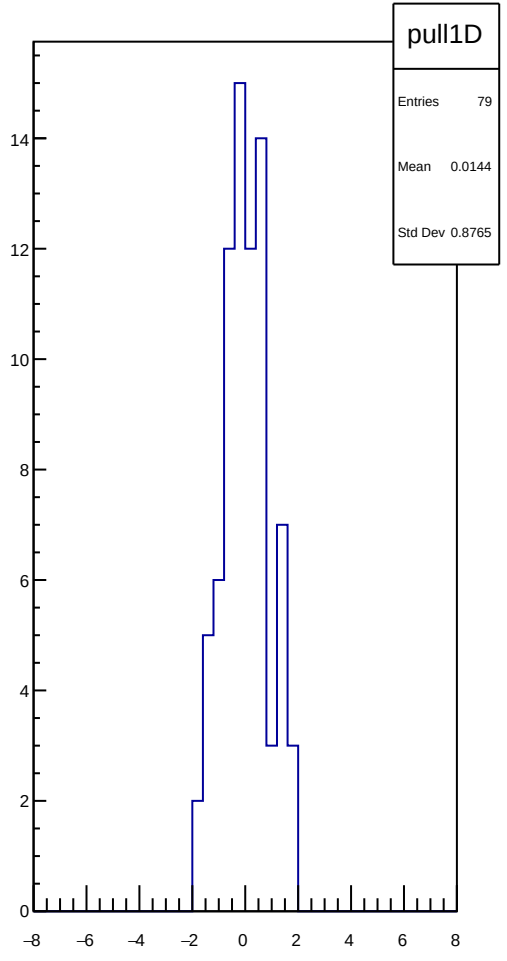

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 170.1 / 78
p0 1791 ± 1.446
1860
1840
1820
1800
1780
1760
1740

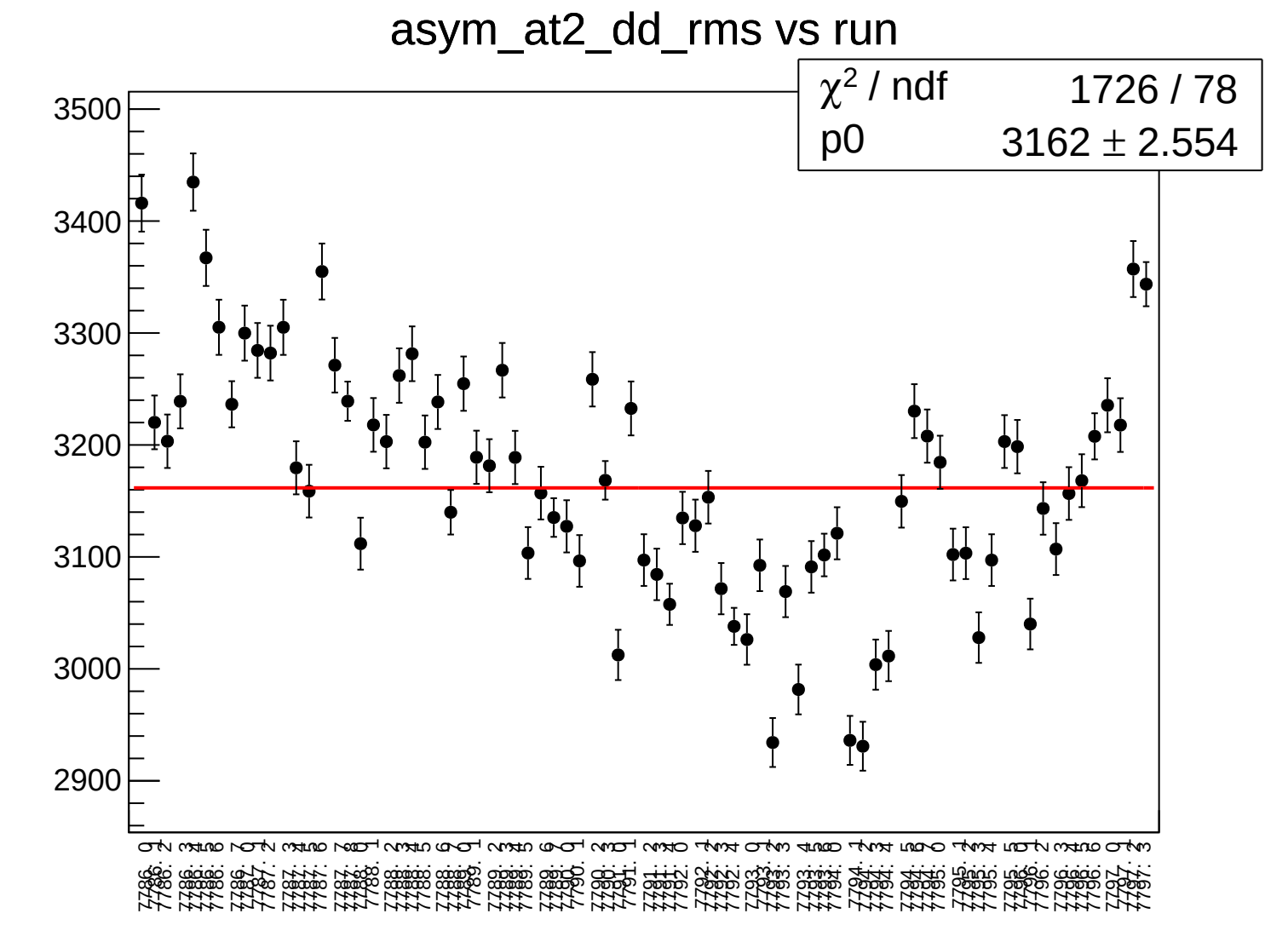

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.49 / 78
p0 4042 ± 3025
pull
Entries 79
Mean −92.46
Std Dev 0

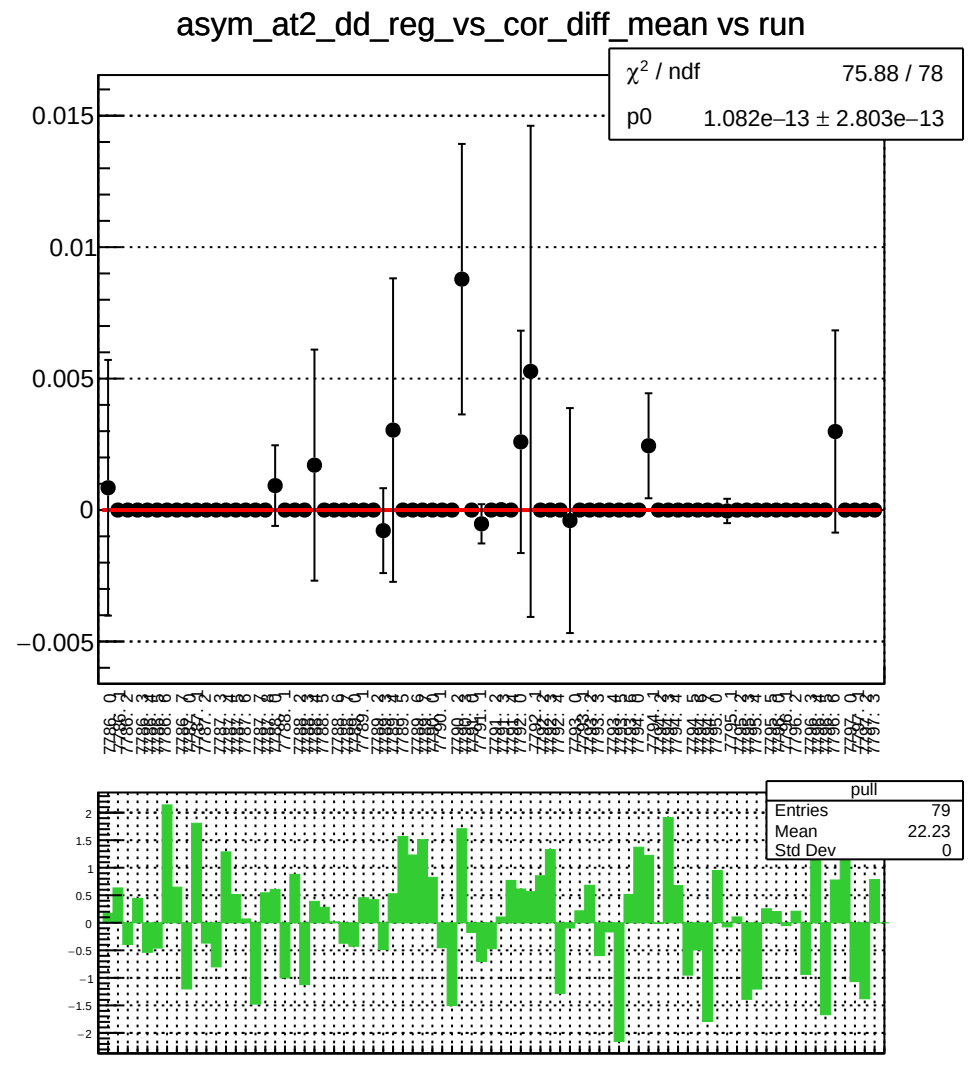

pull1D
Entries 79
Mean −0.01575
Std Dev 0.9709

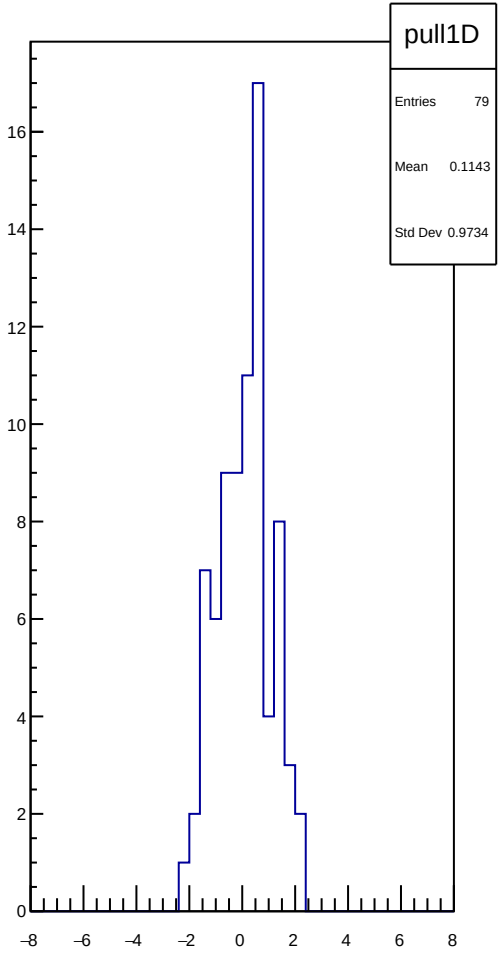

asym_at2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3068 / 78
p0 2647 ± 2.139
3000
2900
2800
2700
2600
2500
2400

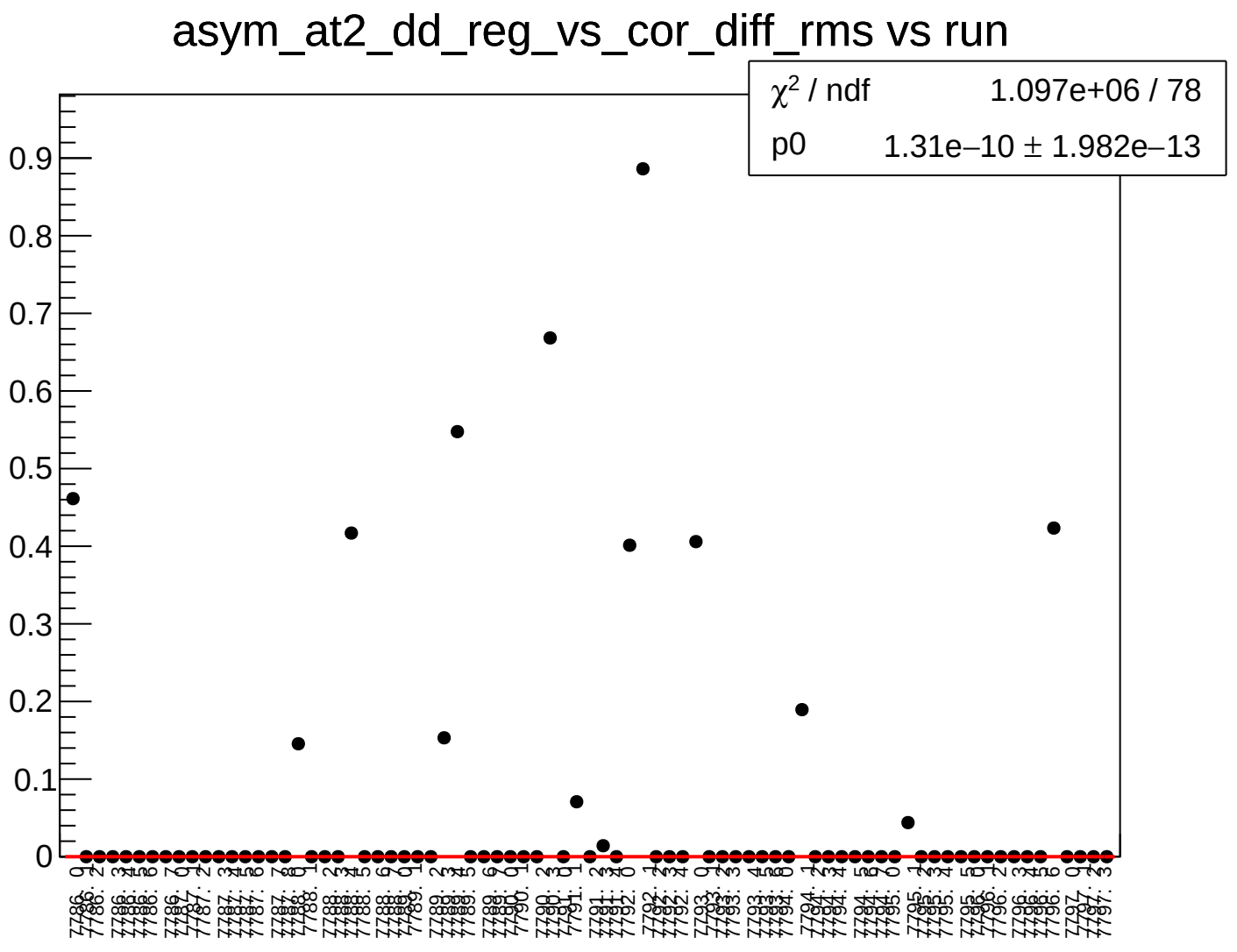

asym_at2_dd_mean vs run
×10^3
χ² / ndf 60.71 / 78
p0 −6028 ± 3612
100
50
0
−50
−100
pull
Entries 79
Mean −91.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

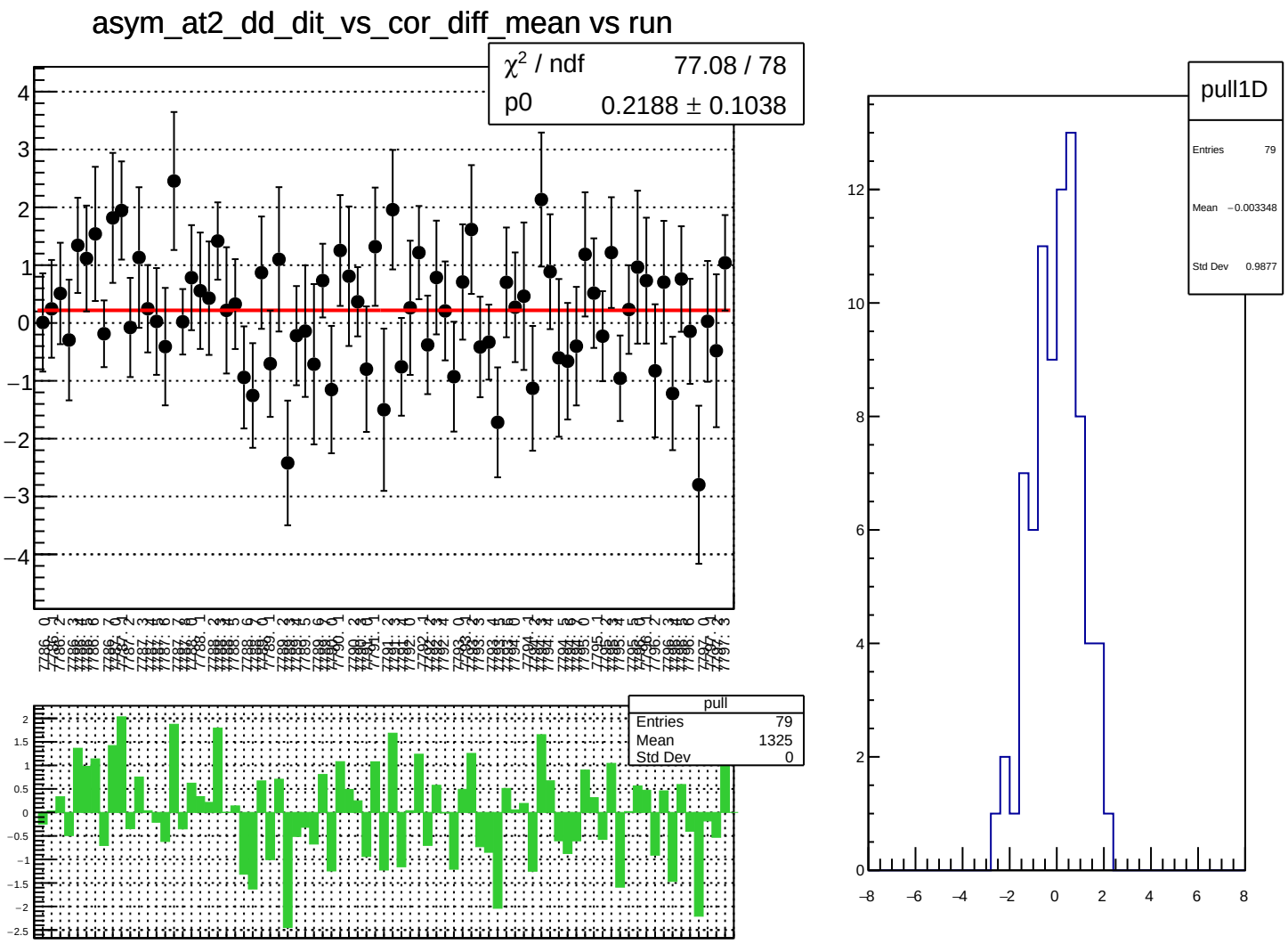

pull1D
Entries 79
Mean 0.0144
Std Dev 0.8765
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

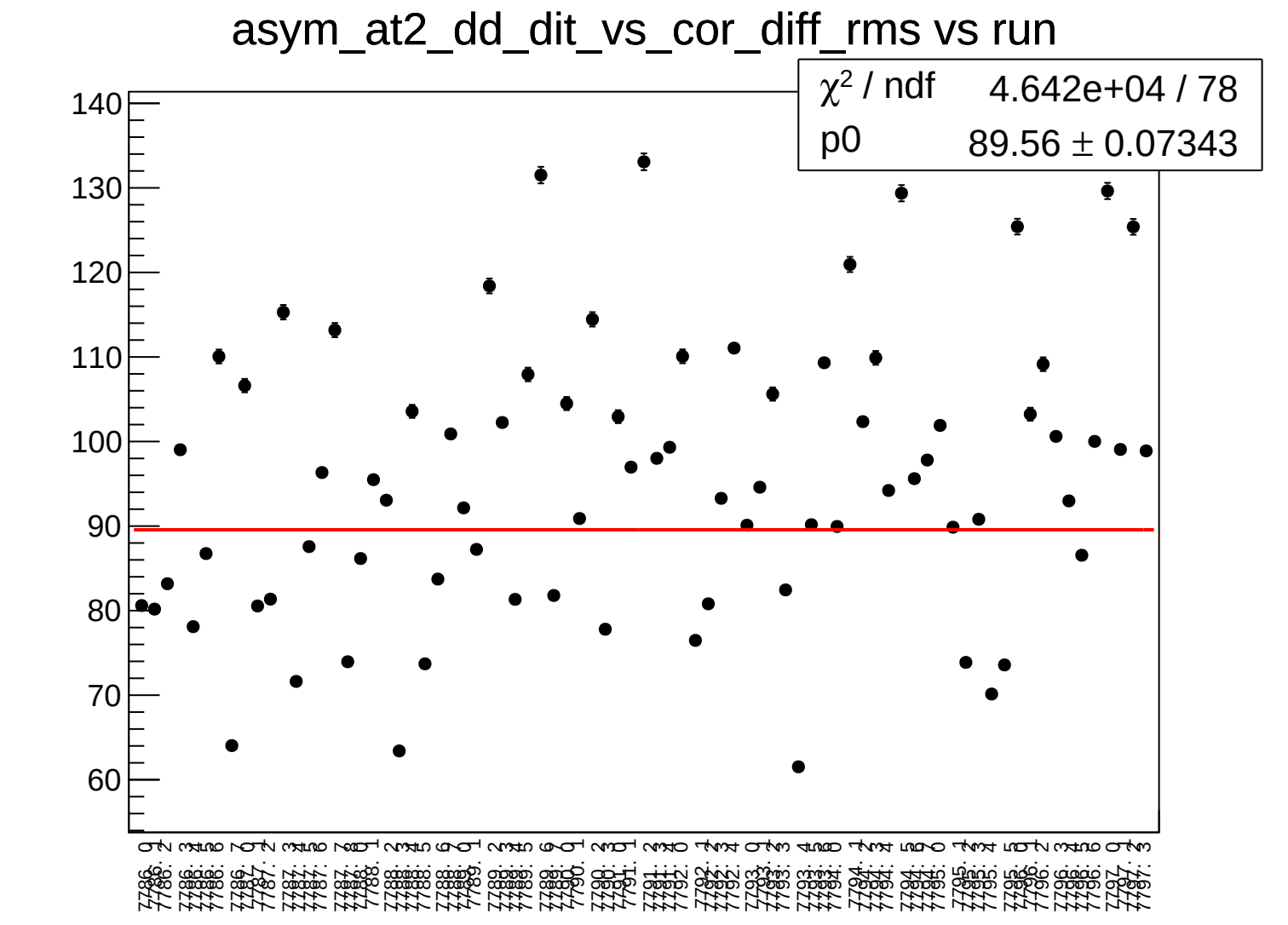

asym_at2_dd_rms vs run
χ² / ndf 1726 / 78
p0 3162 ± 2.554
3500
3400
3300
3200
3100
3000
2900

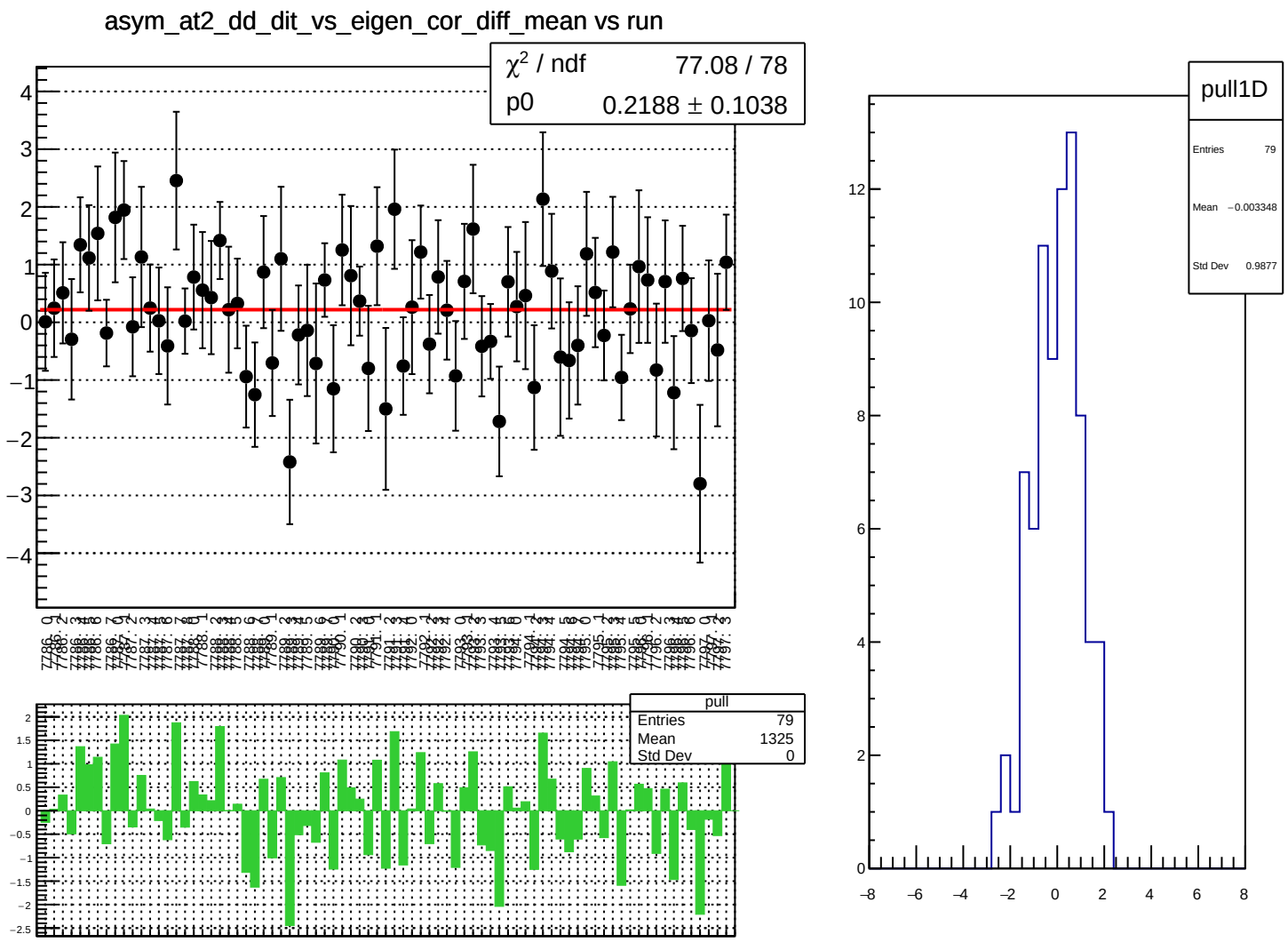

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.88 / 78
p0 1.082e−13 ± 2.803e−13
0.015
0.01
0.005
0
−0.005
pull
Entries 79
Mean 22.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

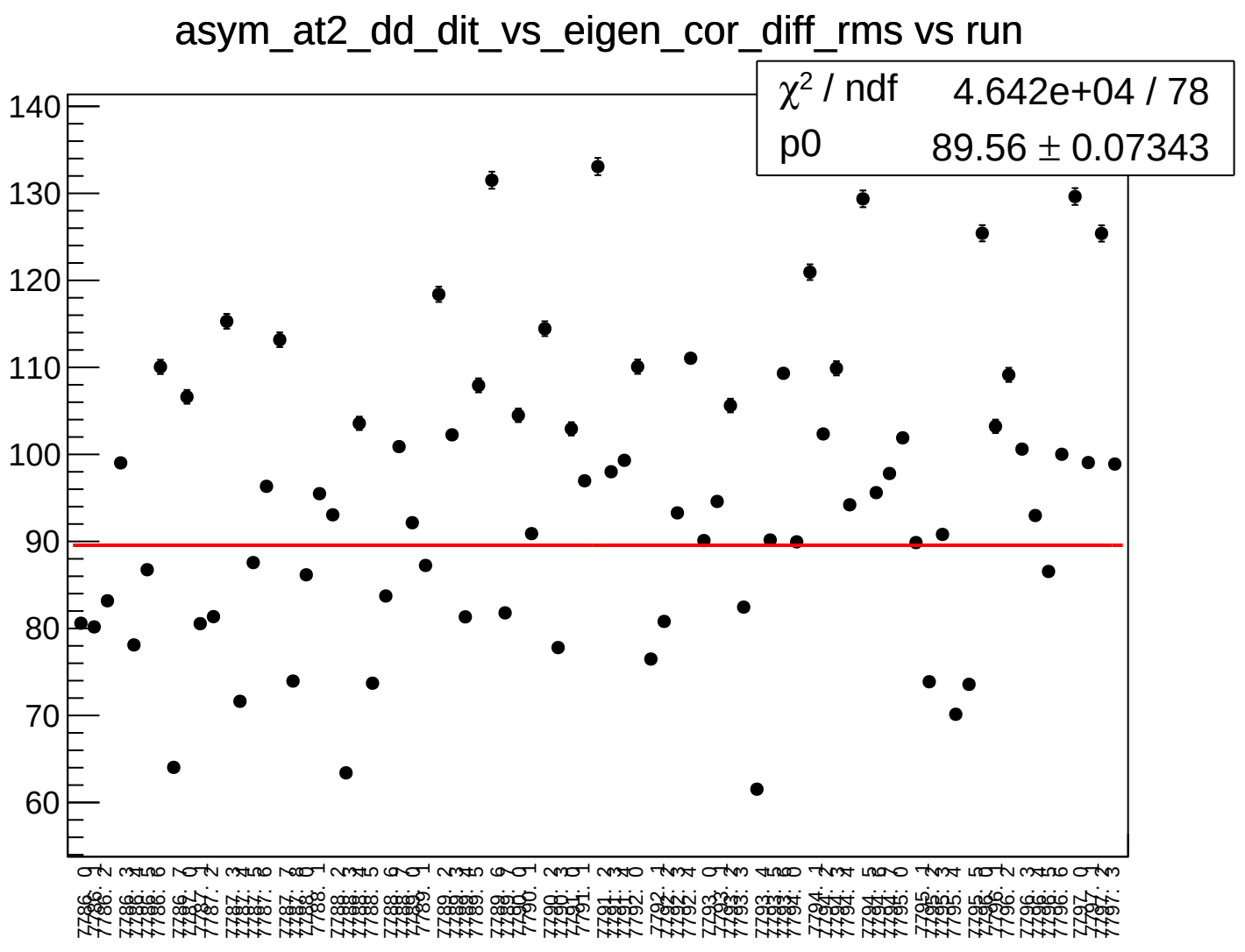

pull1D
Entries 79
Mean 0.1143
Std Dev 0.9734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

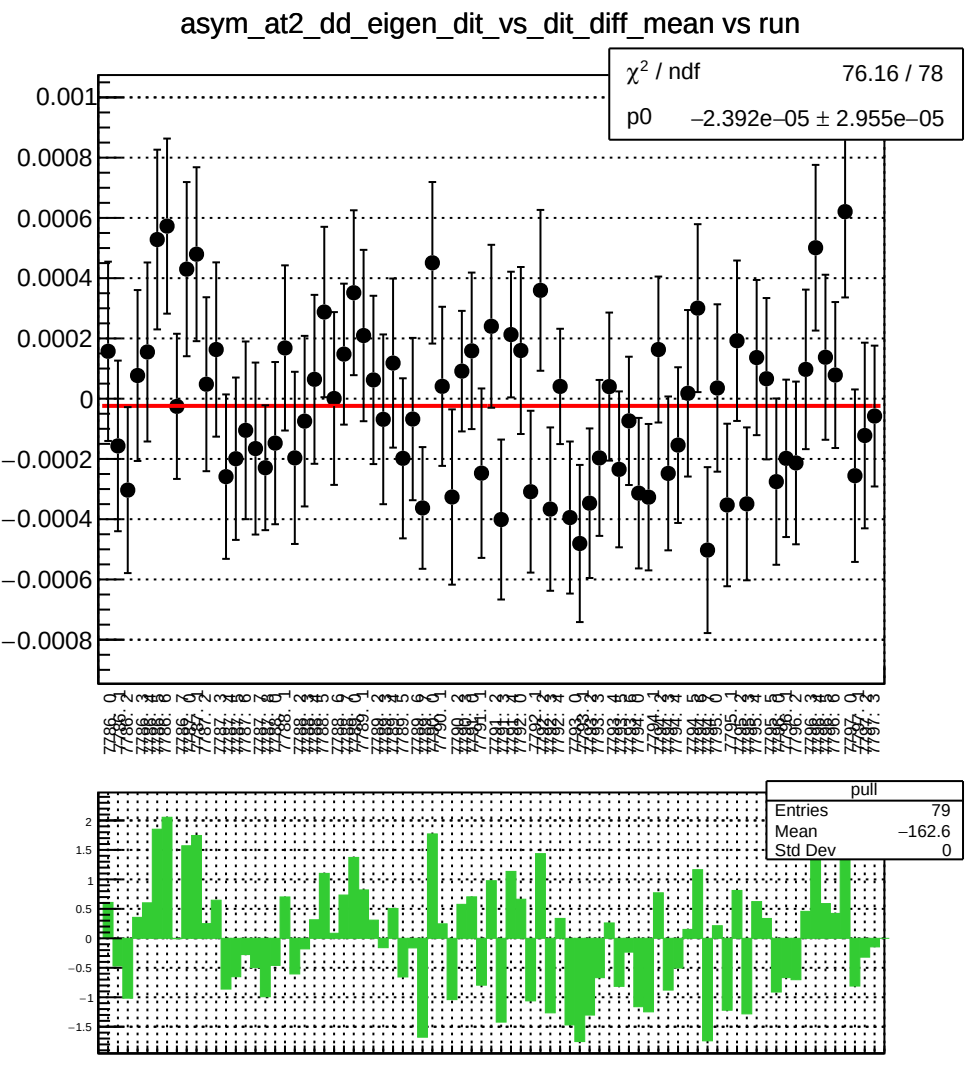

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 78
p0 1.31e−10 ± 1.982e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

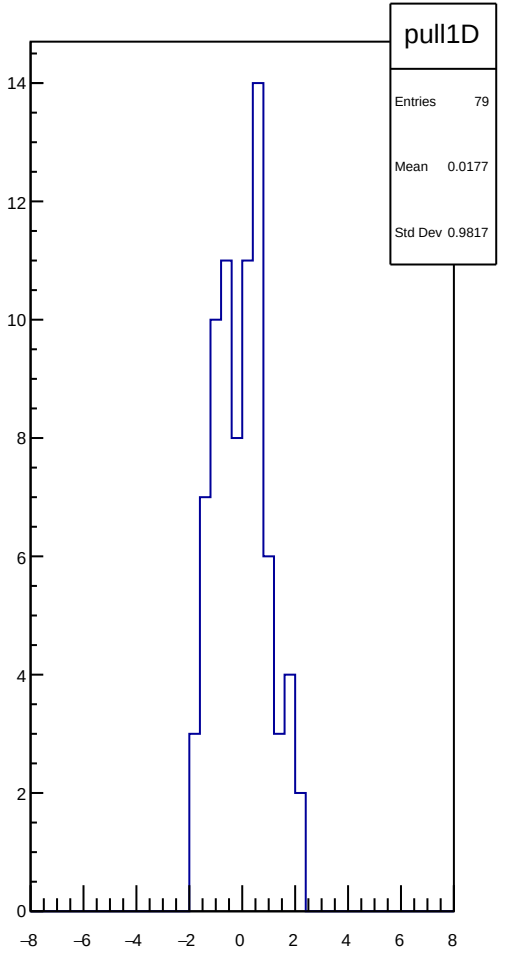

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.08 / 78
p0 0.2188 ± 0.1038
pull
Entries 79
Mean 1325
Std Dev 0
pull1D
Entries 79
Mean −0.003348
Std Dev 0.9877

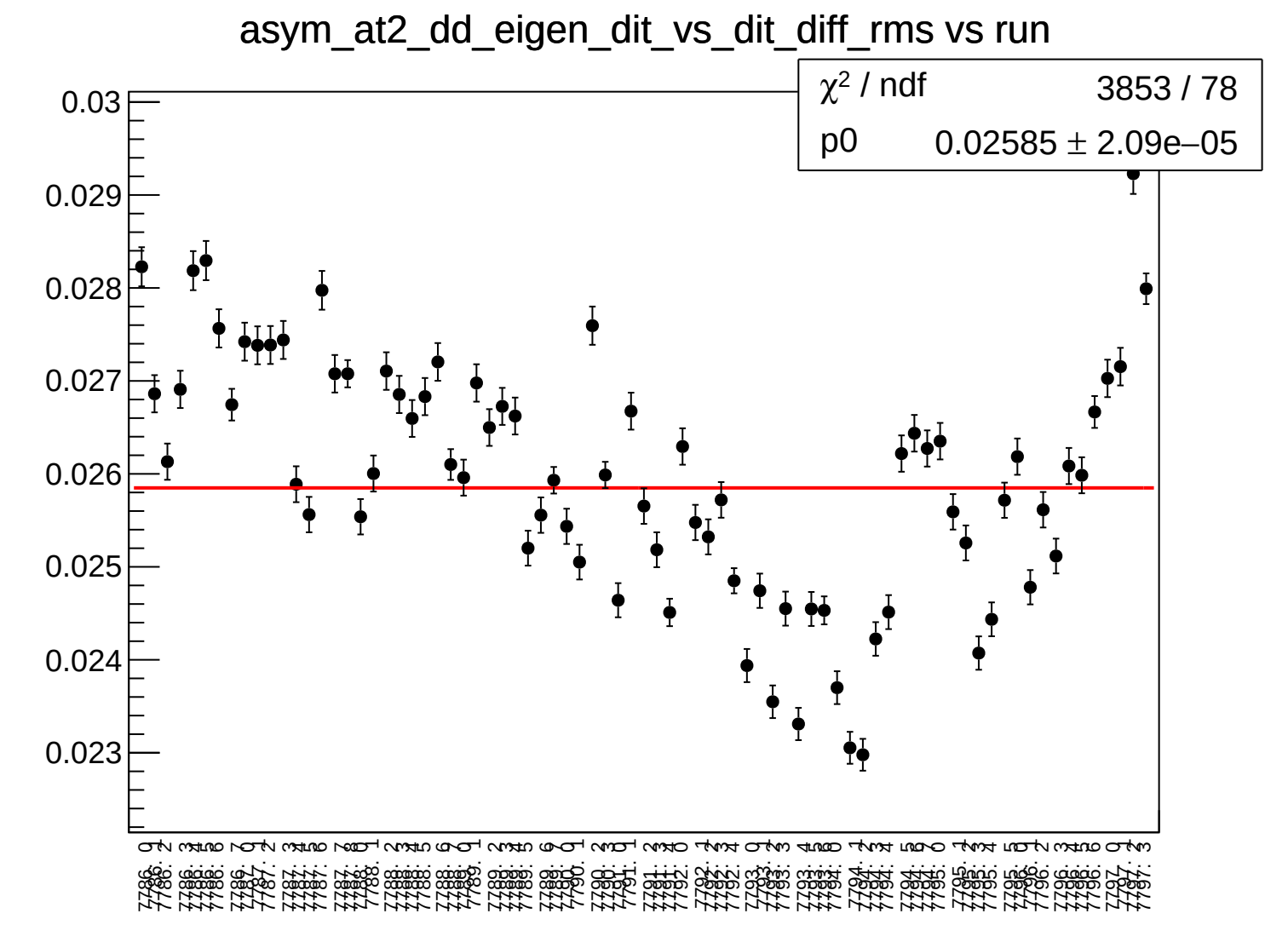

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.642e+04 / 78
p0 89.56 ± 0.07343
140
130
120
110
100
90
80
70
60

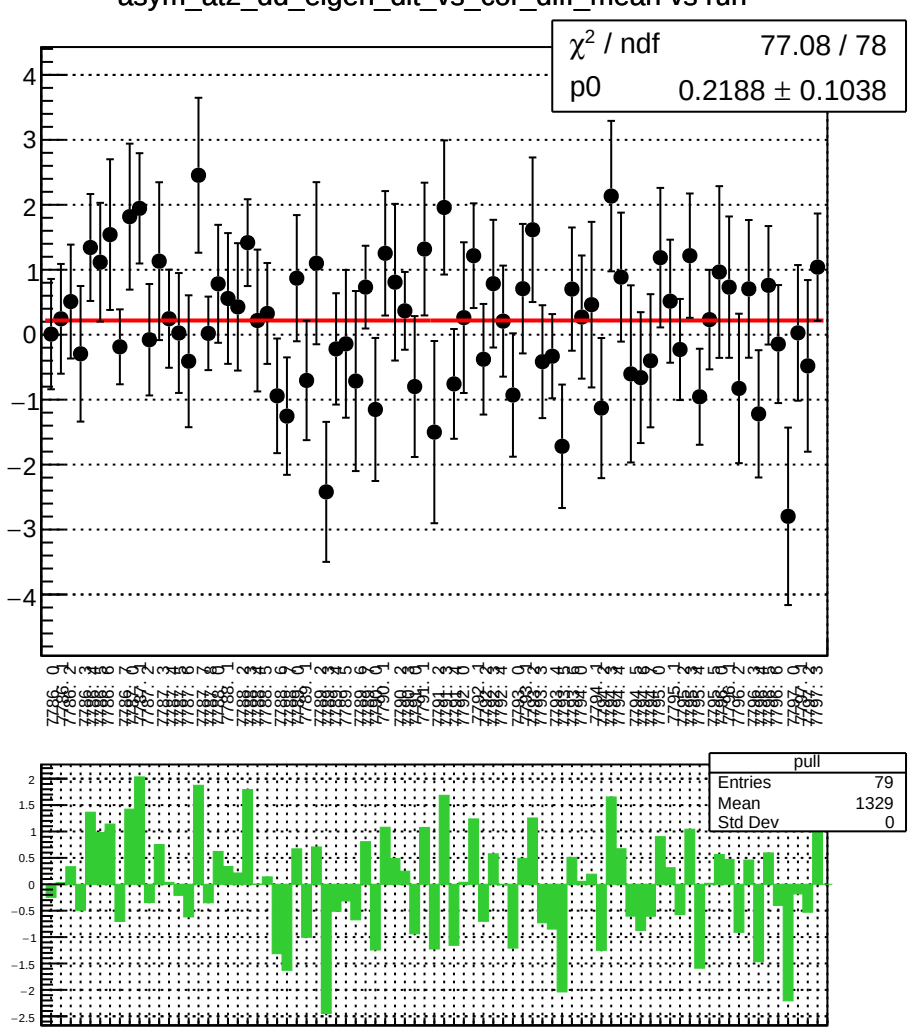

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.08 / 78
p0 0.2188 ± 0.1038
pull
Entries 79
Mean 1325
Std Dev 0
pull1D
Entries 79
Mean −0.003348
Std Dev 0.9877

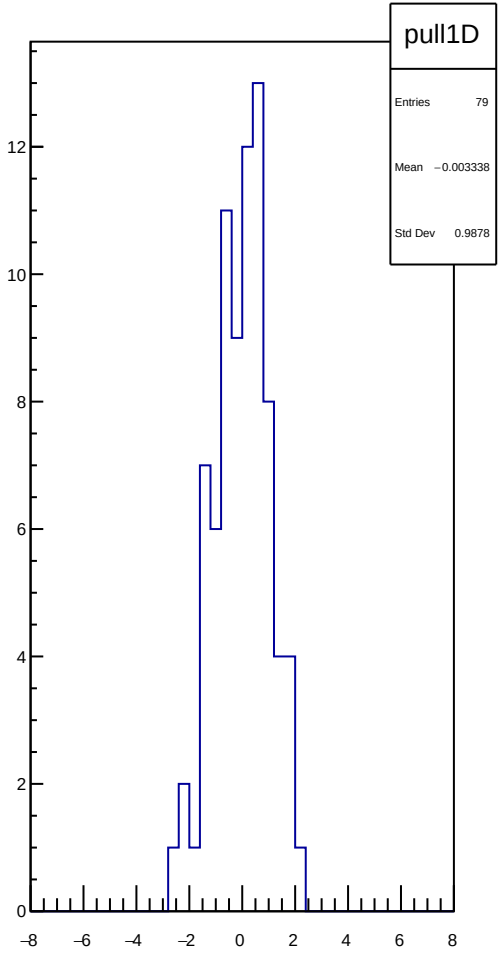

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.642e+04 / 78
p0 89.56 ± 0.07343
140
130
120
110
100
90
80
70
60

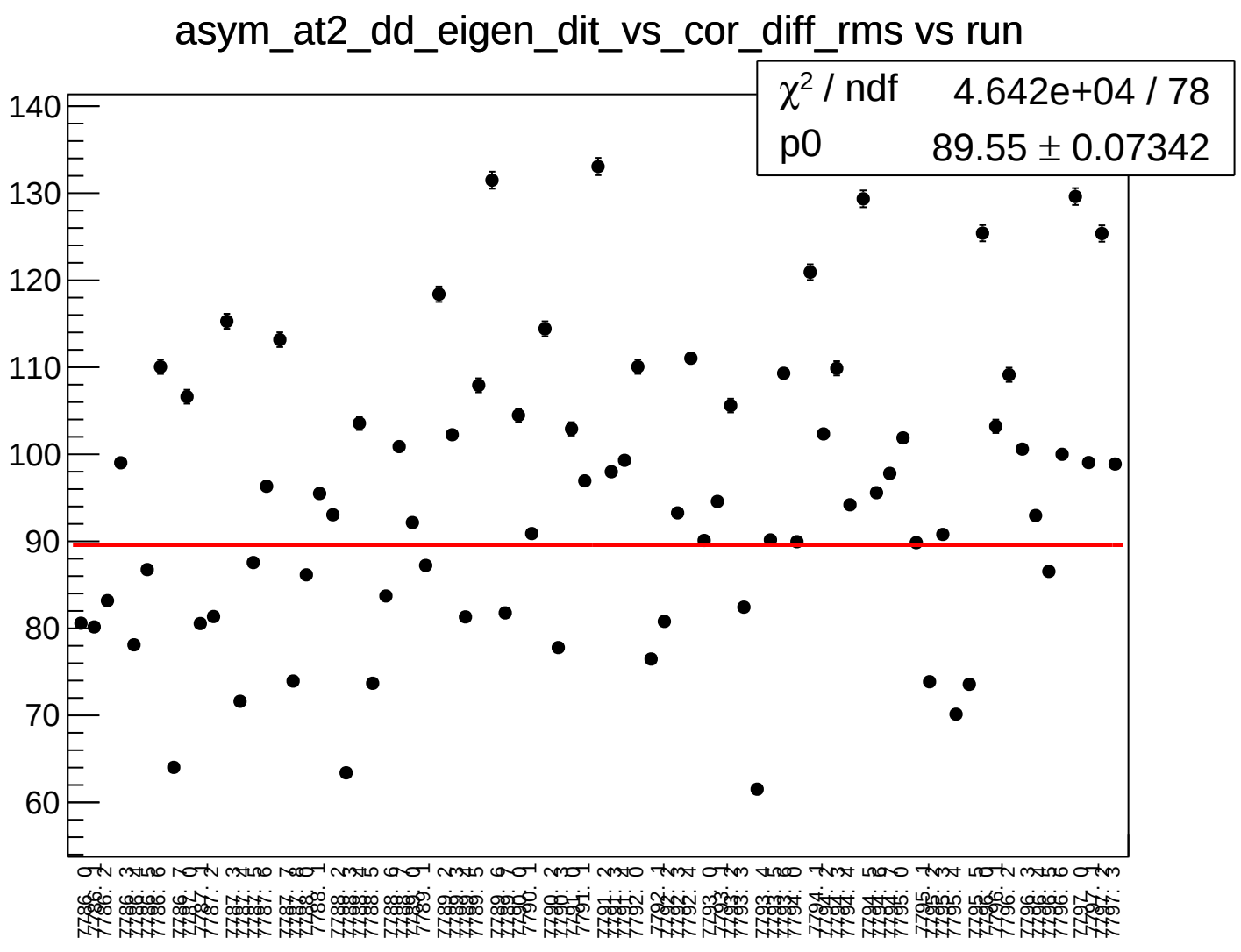

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.16 / 78
p0 −2.392e−05 ± 2.955e−05
pull
Entries 79
Mean −162.6
Std Dev 0


pull1D
Entries 79
Mean 0.0177
Std Dev 0.9817

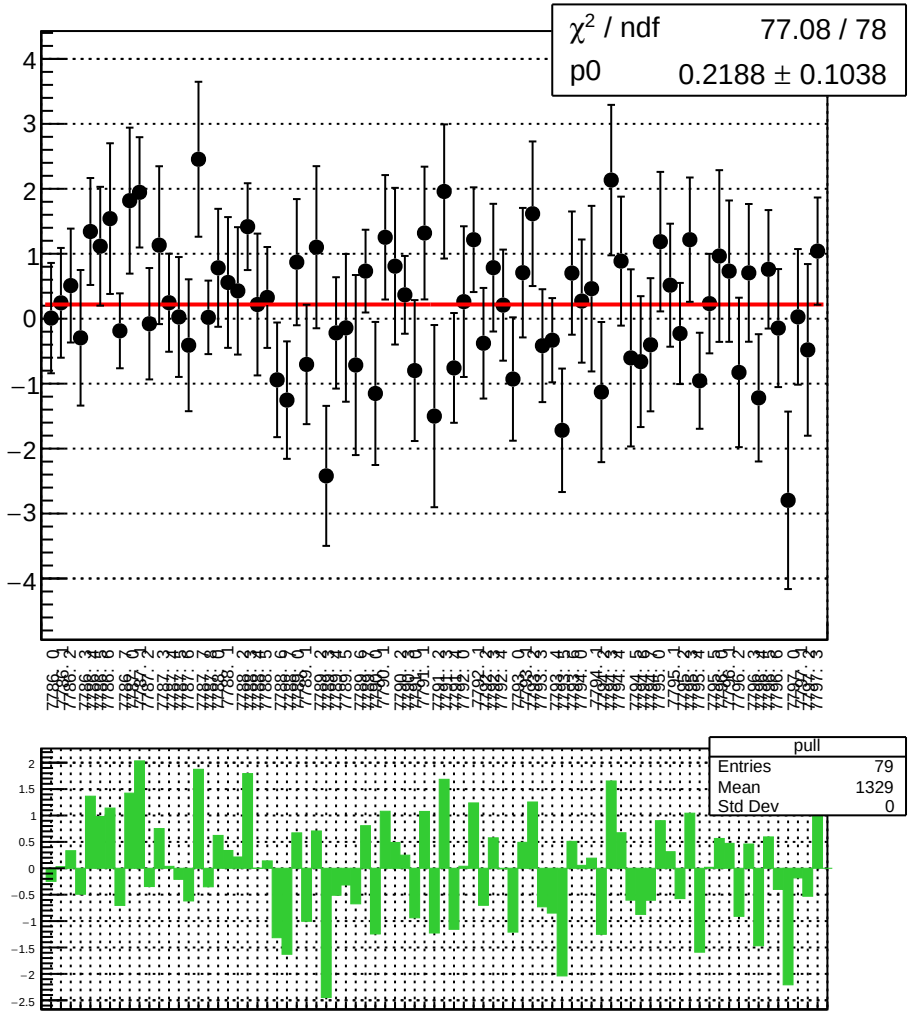

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3853 / 78
p0 0.02585 ± 2.09e−05
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023

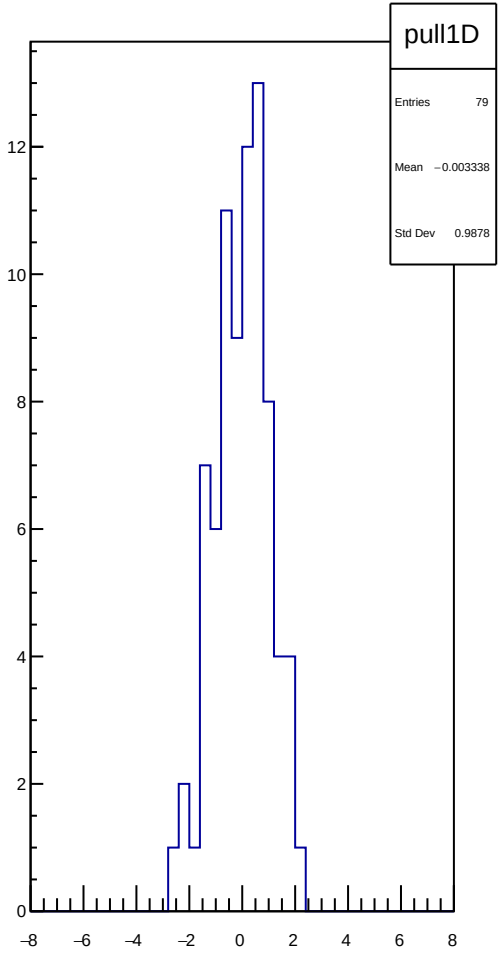

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.08 / 78
p0 0.2188 ± 0.1038
pull
Entries 79
Mean 1329
Std Dev 0

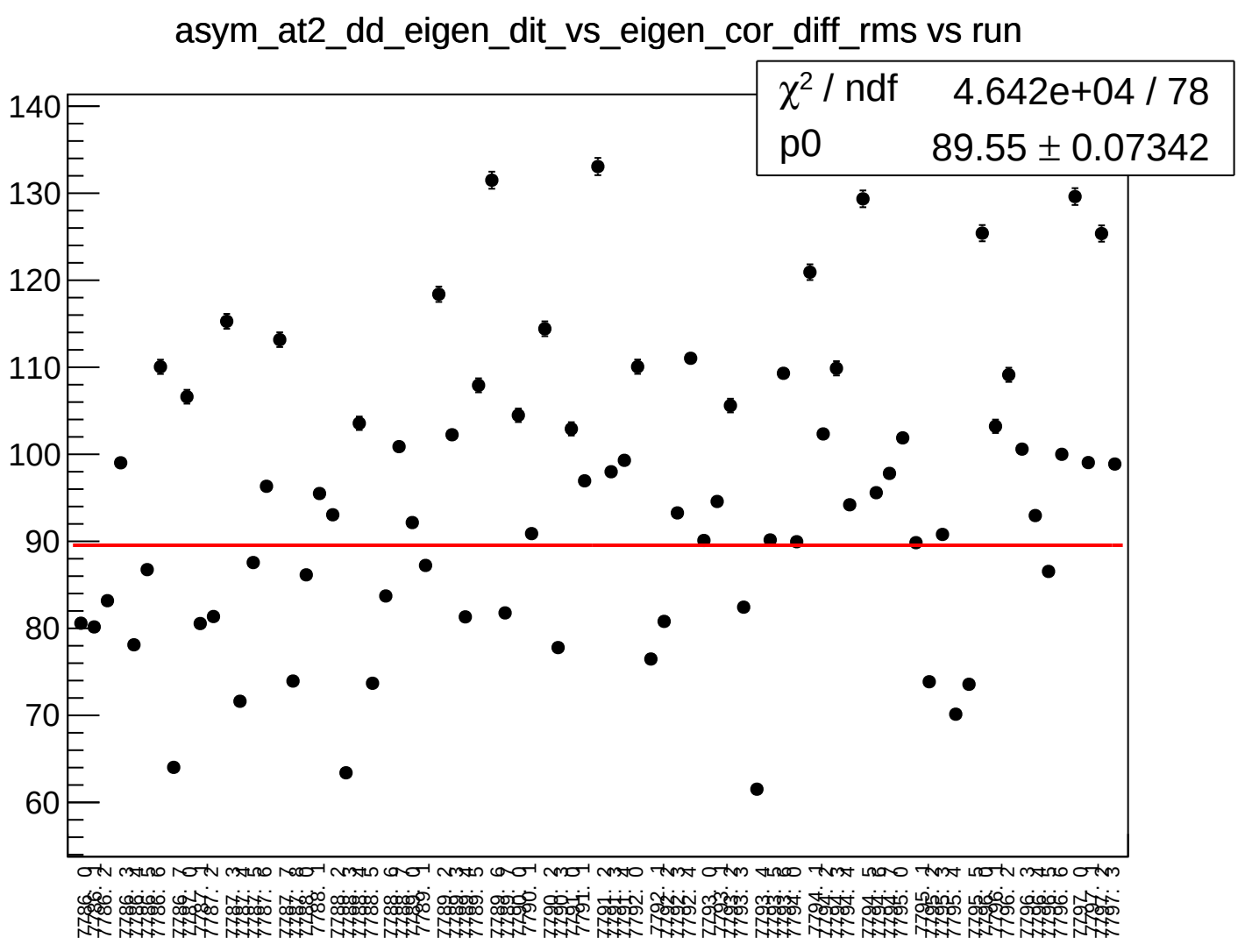

pull1D
Entries 79
Mean −0.003338
Std Dev 0.9878

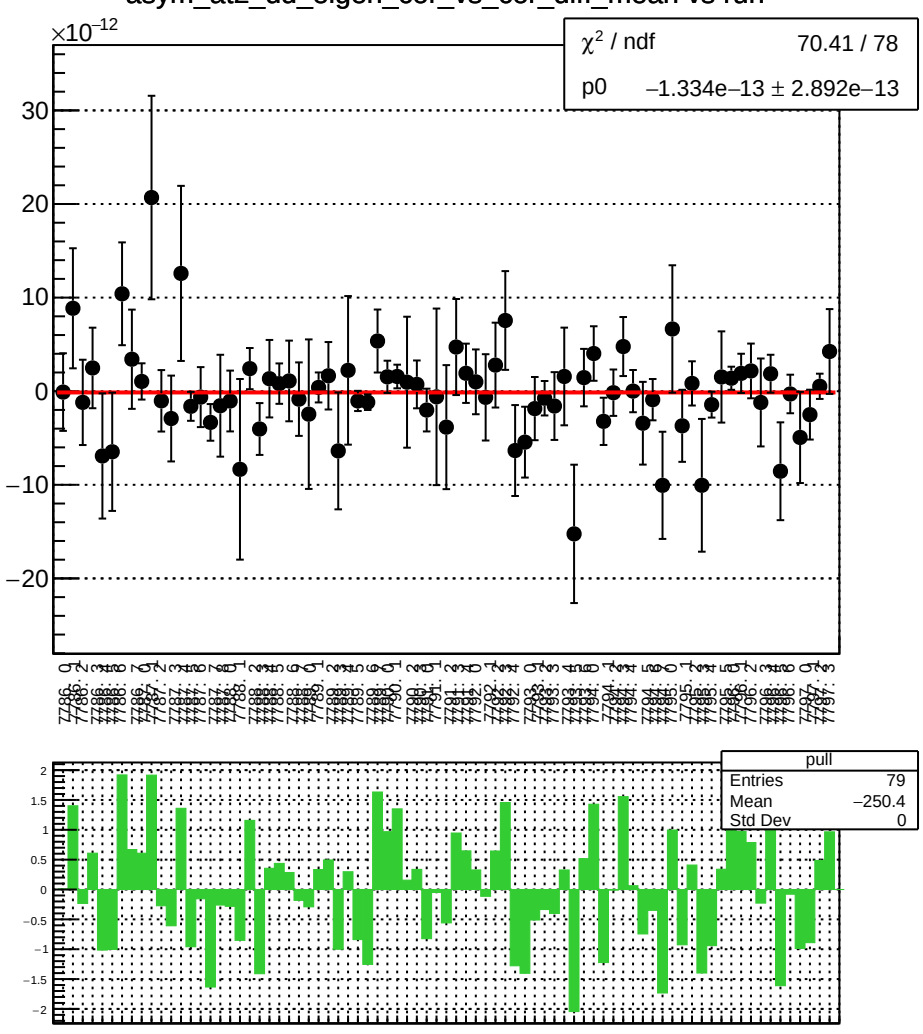

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.642e+04 / 78
p0 89.55 ± 0.07342
140
130
120
110
100
90
80
70
60

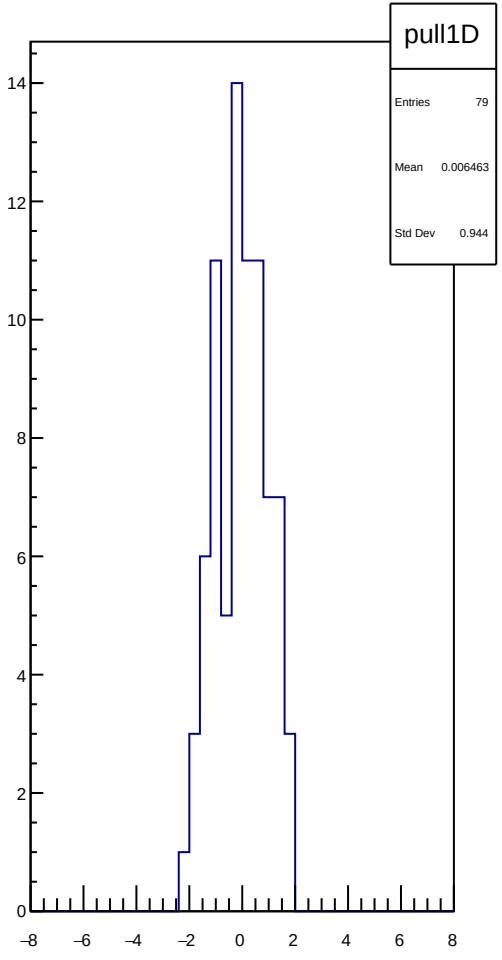
asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

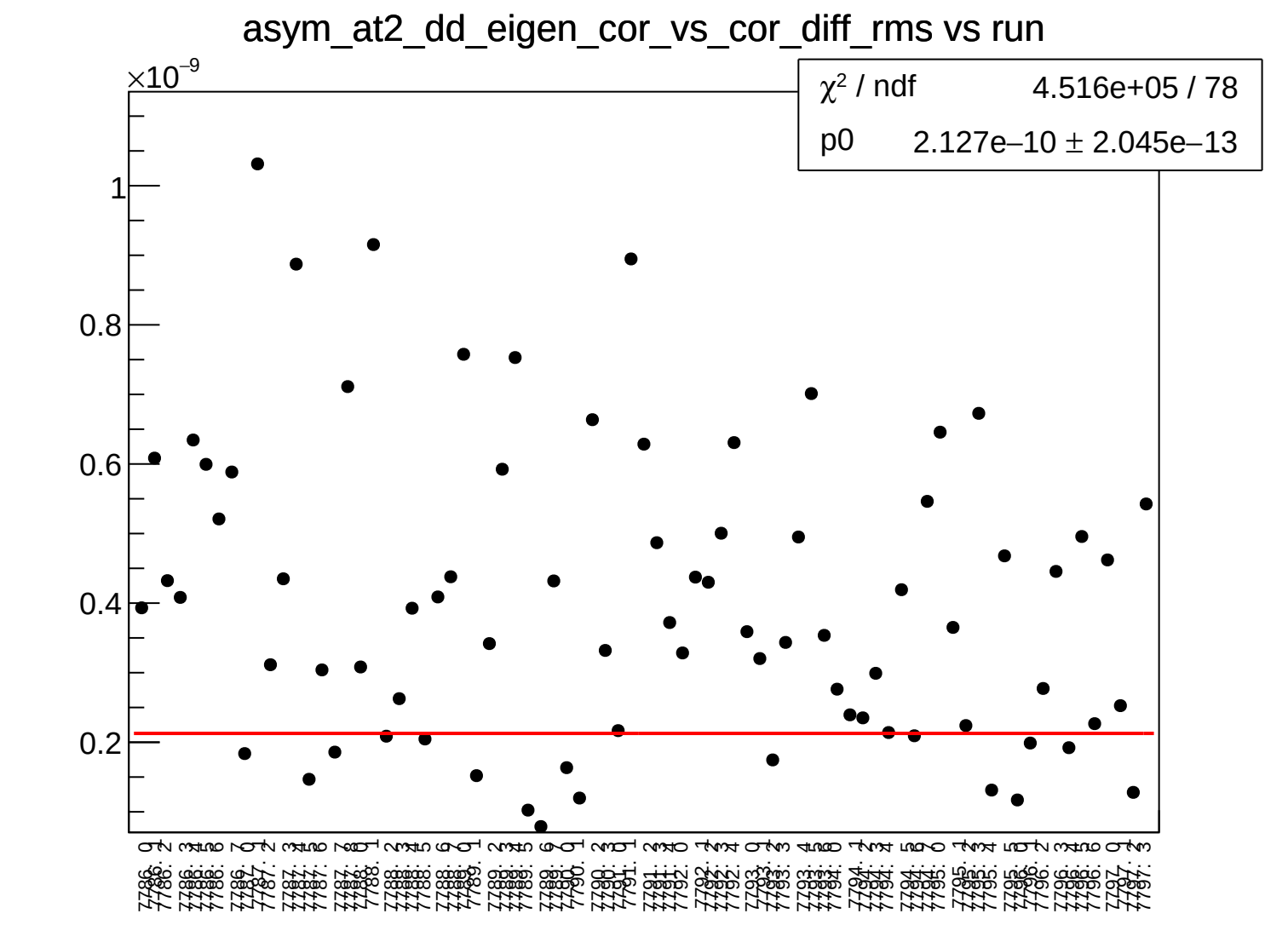


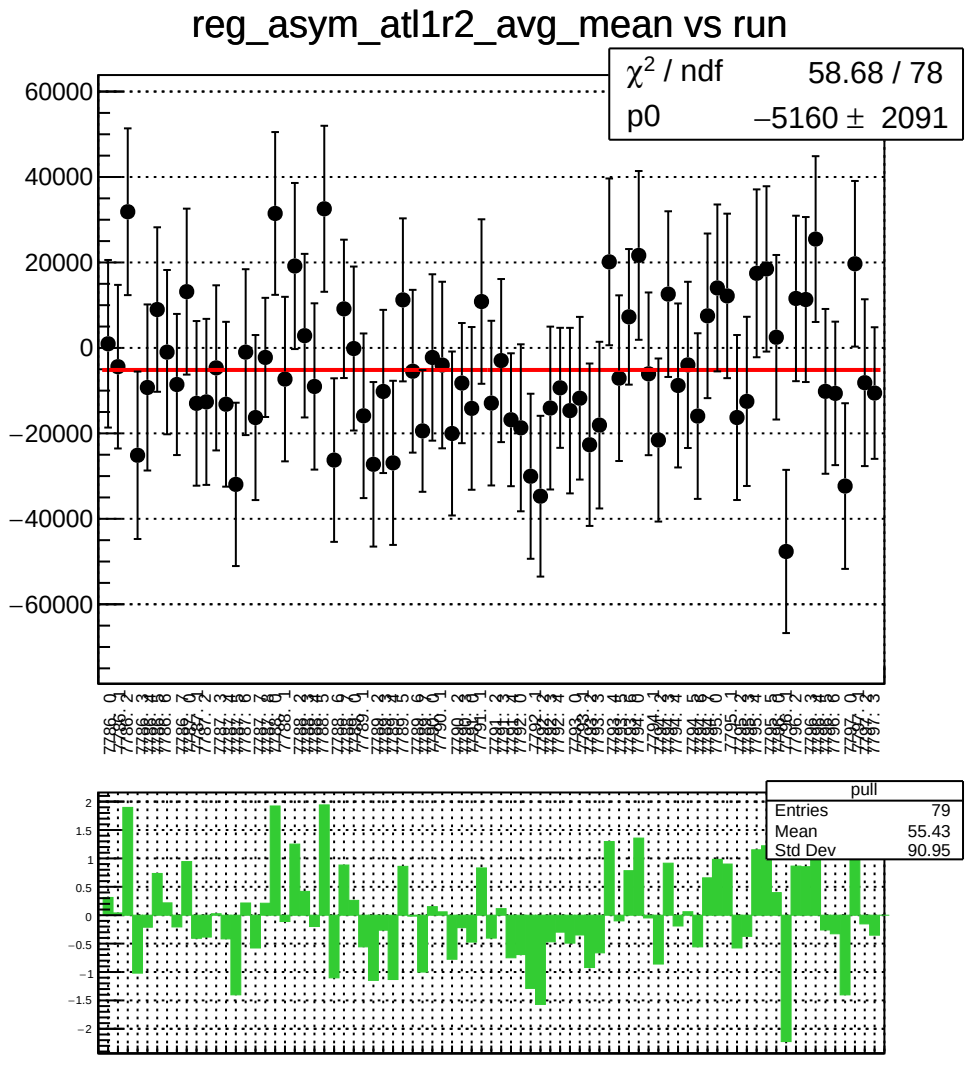


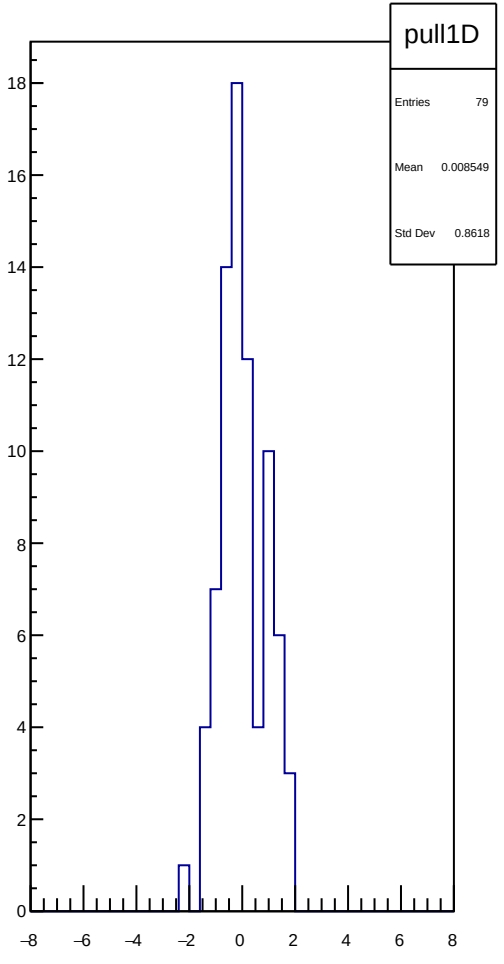

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.642e+04 / 78
p0 89.55 ± 0.07342
140
130
120
110
100
90
80
70
60

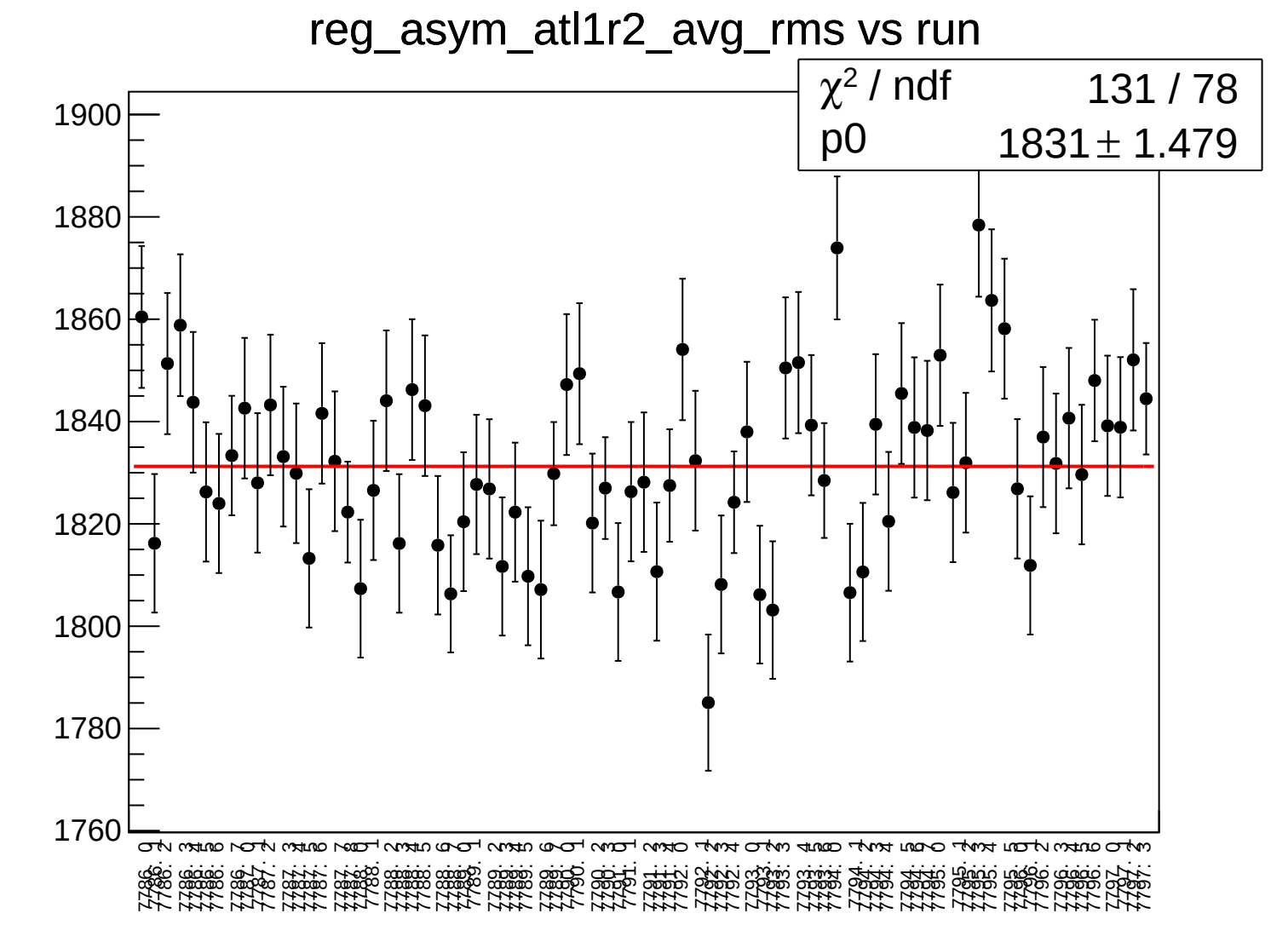

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.41 / 78
p0 −1.334e−13 ± 2.892e−13
pull
Entries 79
Mean −250.4
Std Dev 0

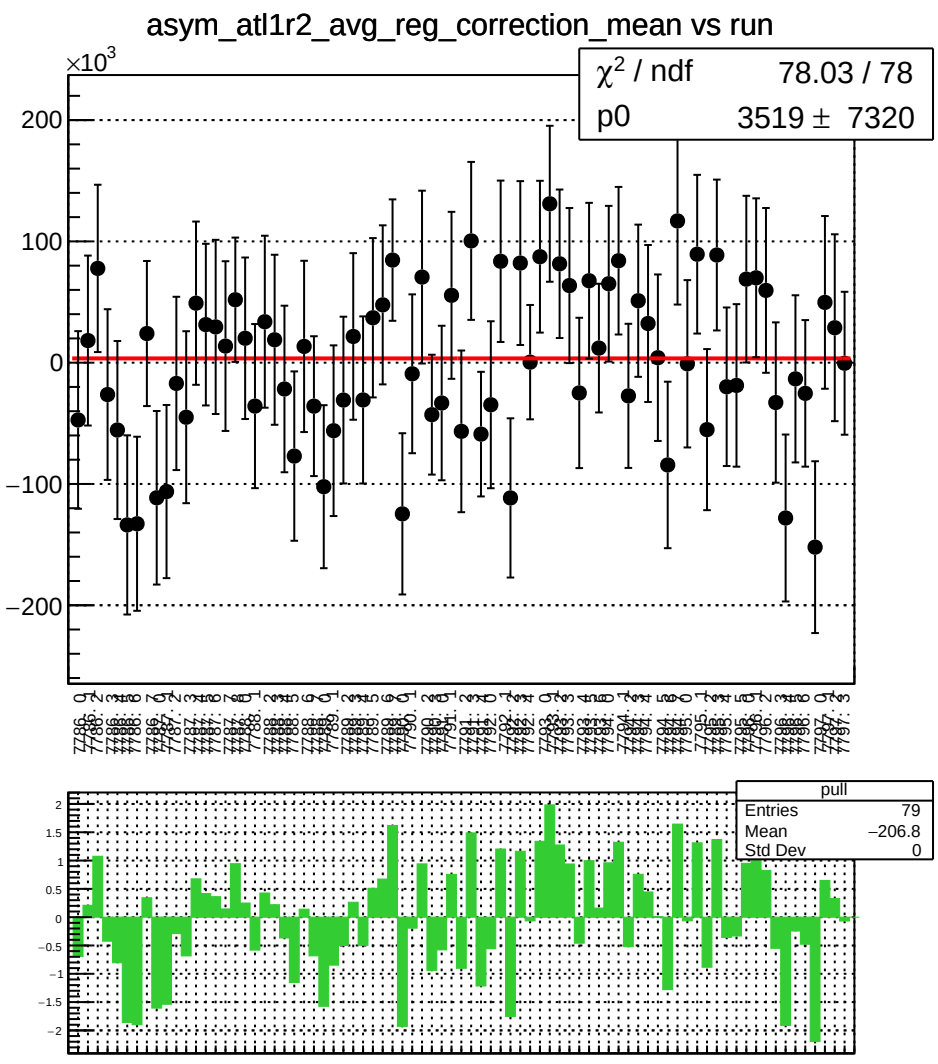

pull1D
Entries 79
Mean 0.006463
Std Dev 0.944

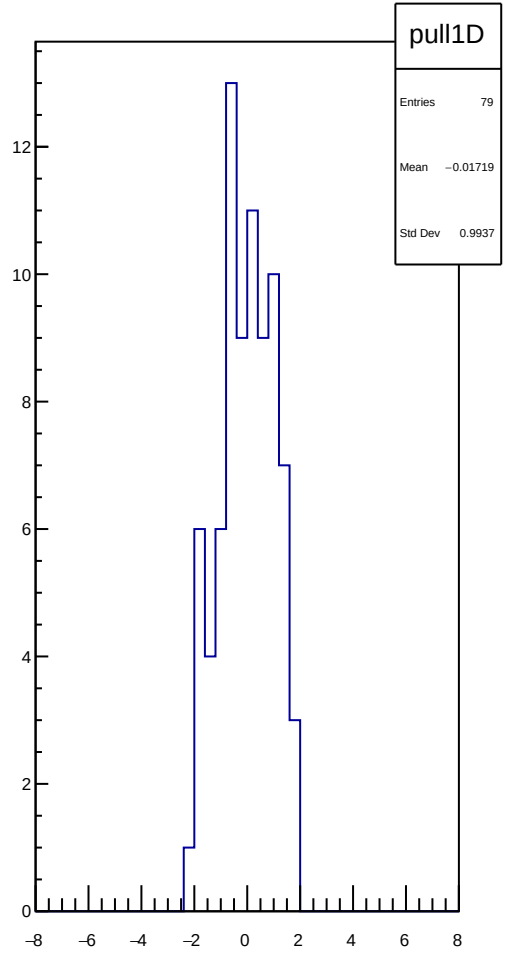

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.516e+05 / 78
p0 2.127e−10 ± 2.045e−13
1
0.8
0.6
0.4
0.2

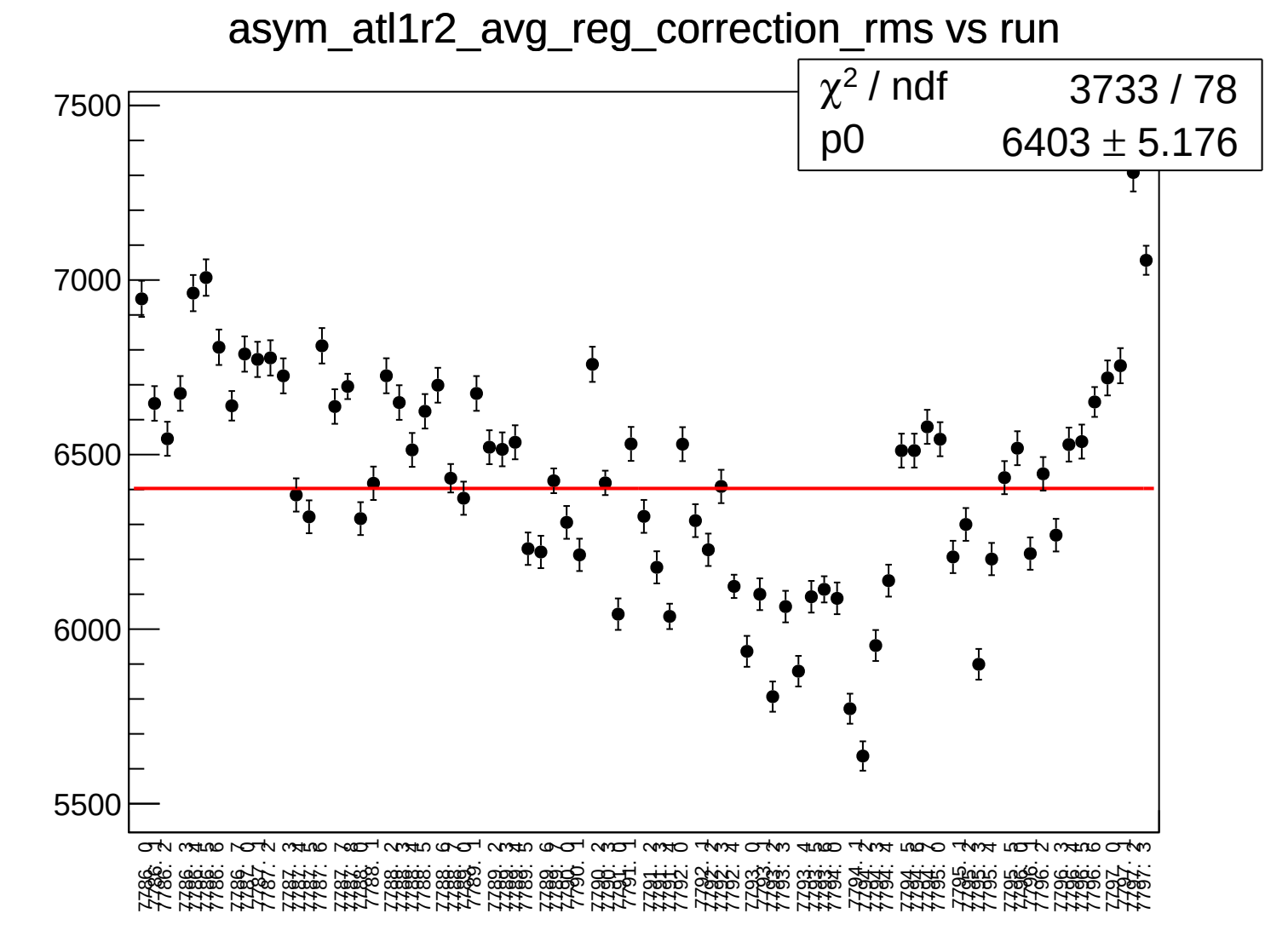

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 58.68 / 78
p0 −5160 ± 2091
pull
Entries 79
Mean 55.43
Std Dev 90.95

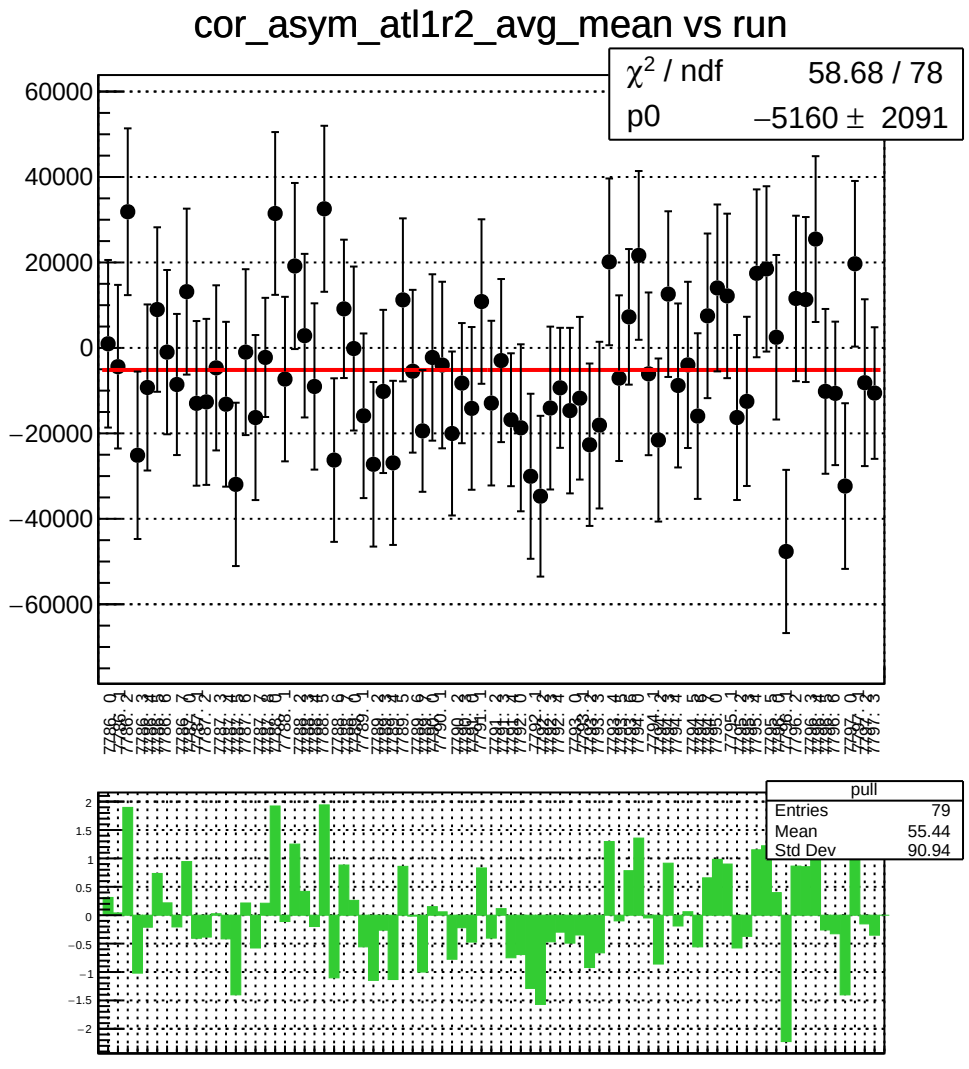

pull1D
Entries 79
Mean 0.008549
Std Dev 0.8618

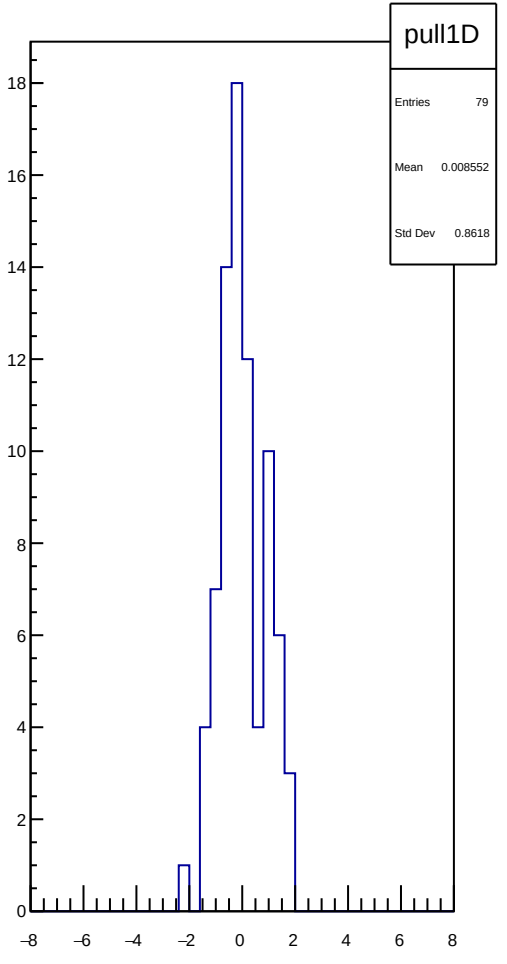

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 131 / 78
p0 1831 ± 1.479
1900
1880
1860
1840
1820
1800
1780
1760

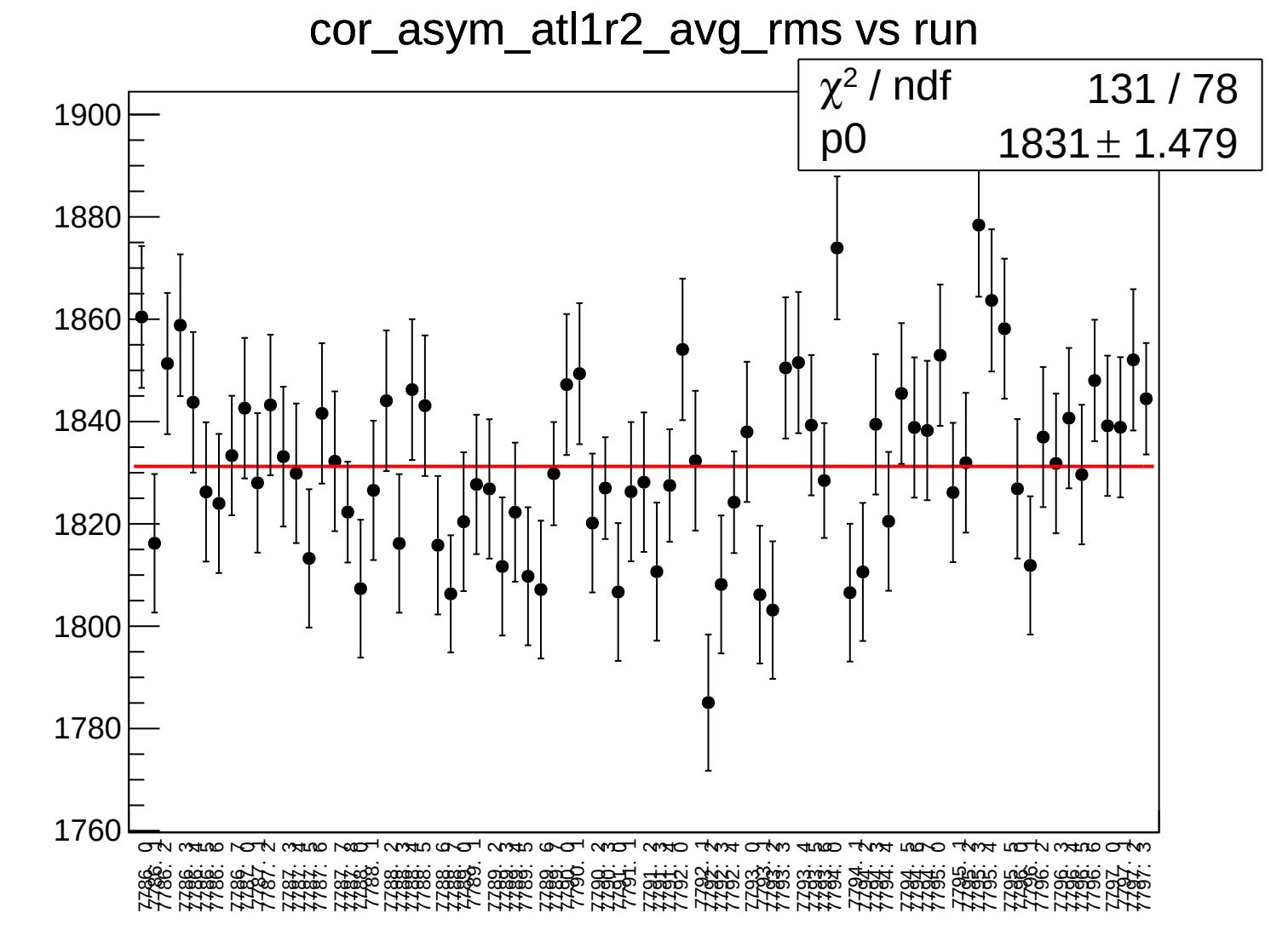

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.03 / 78
p0 3519 ± 7320
200
100
0
−100
−200
pull
Entries 79
Mean −206.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

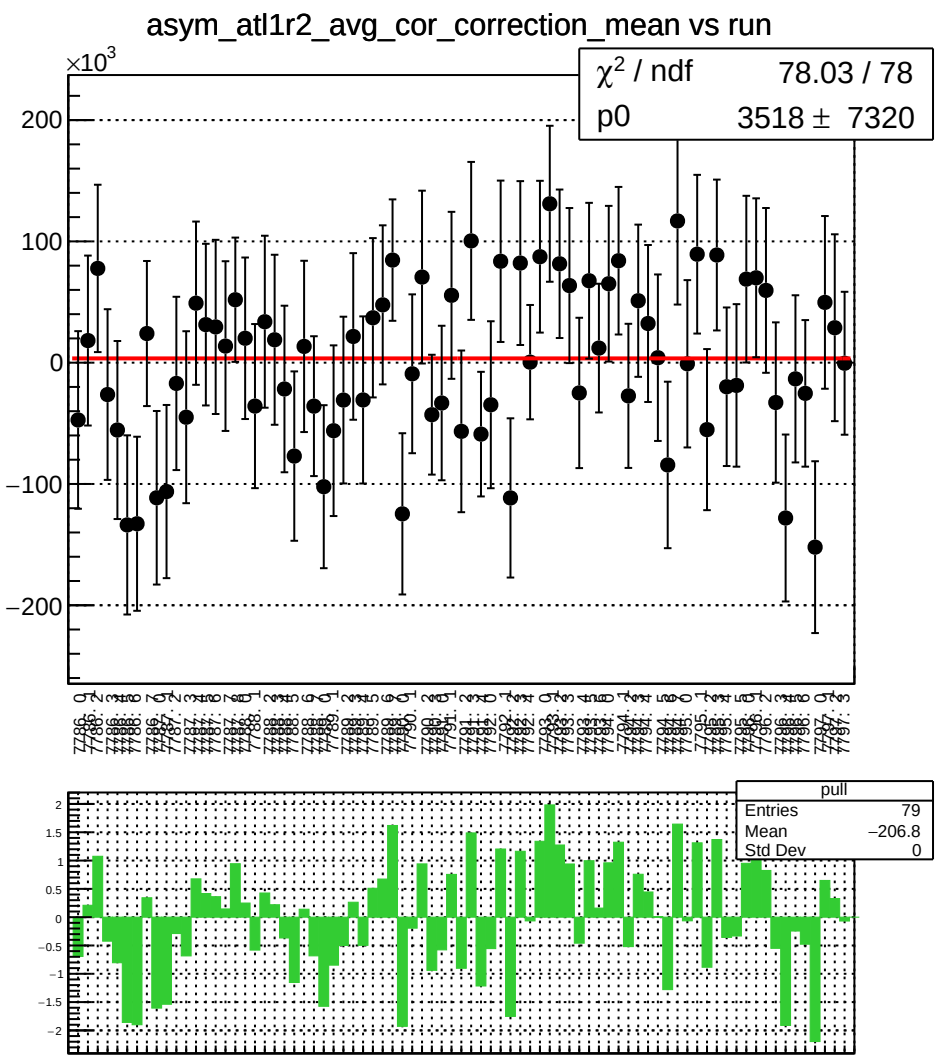

pull1D
Entries 79
Mean −0.01719
Std Dev 0.9937
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

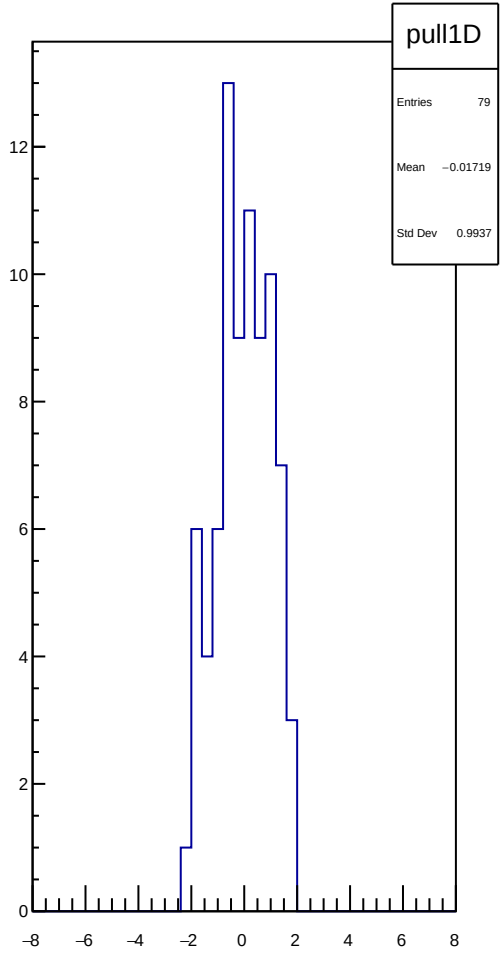

asym_atl1r2_avg_reg_correction_rms vs run
χ^2 / ndf 3733 / 78
p0 6403 ± 5.176
7500
7000
6500
6000
5500

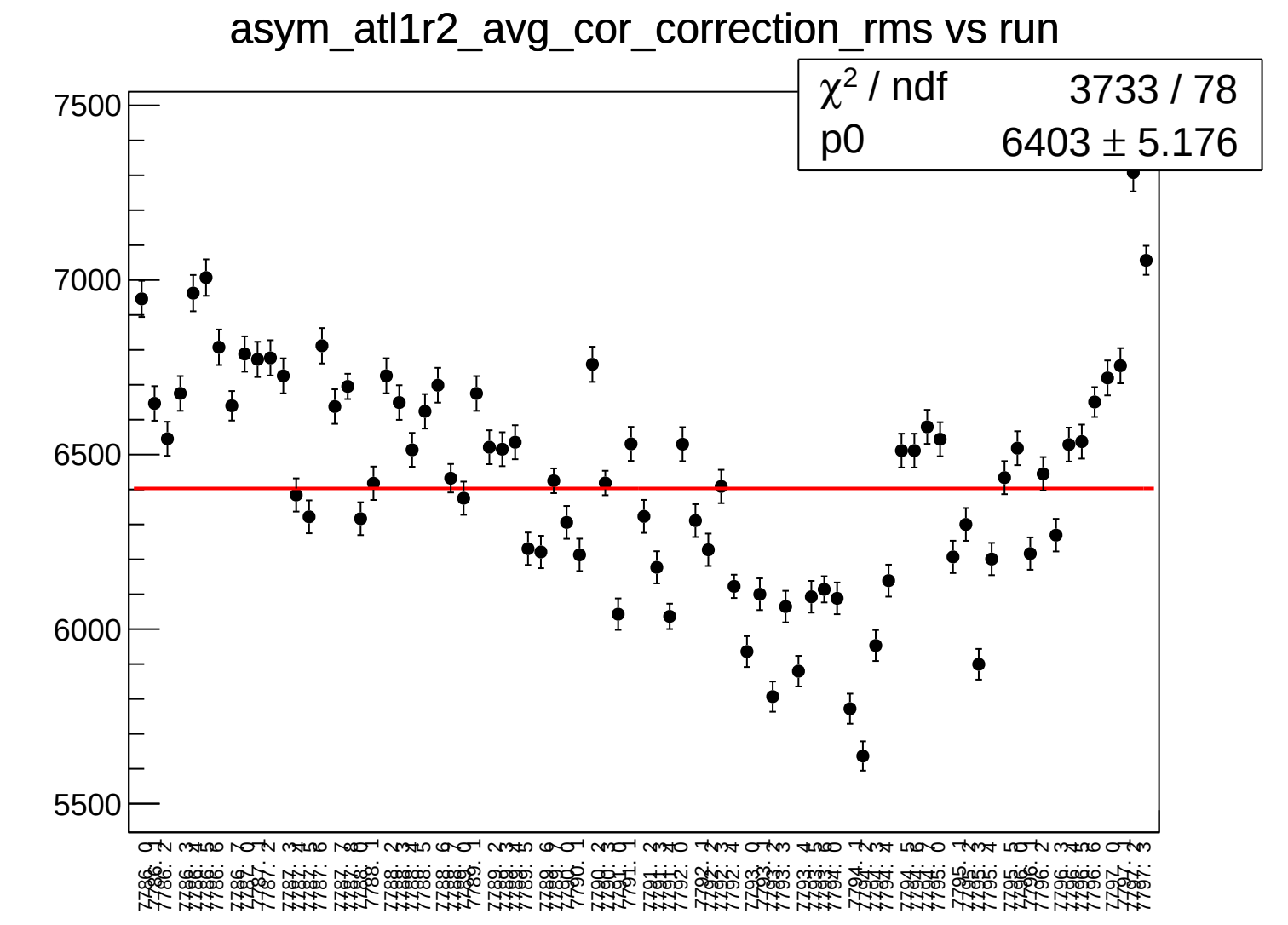

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 58.68 / 78
p0 −5160 ± 2091
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 55.44
Std Dev 90.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

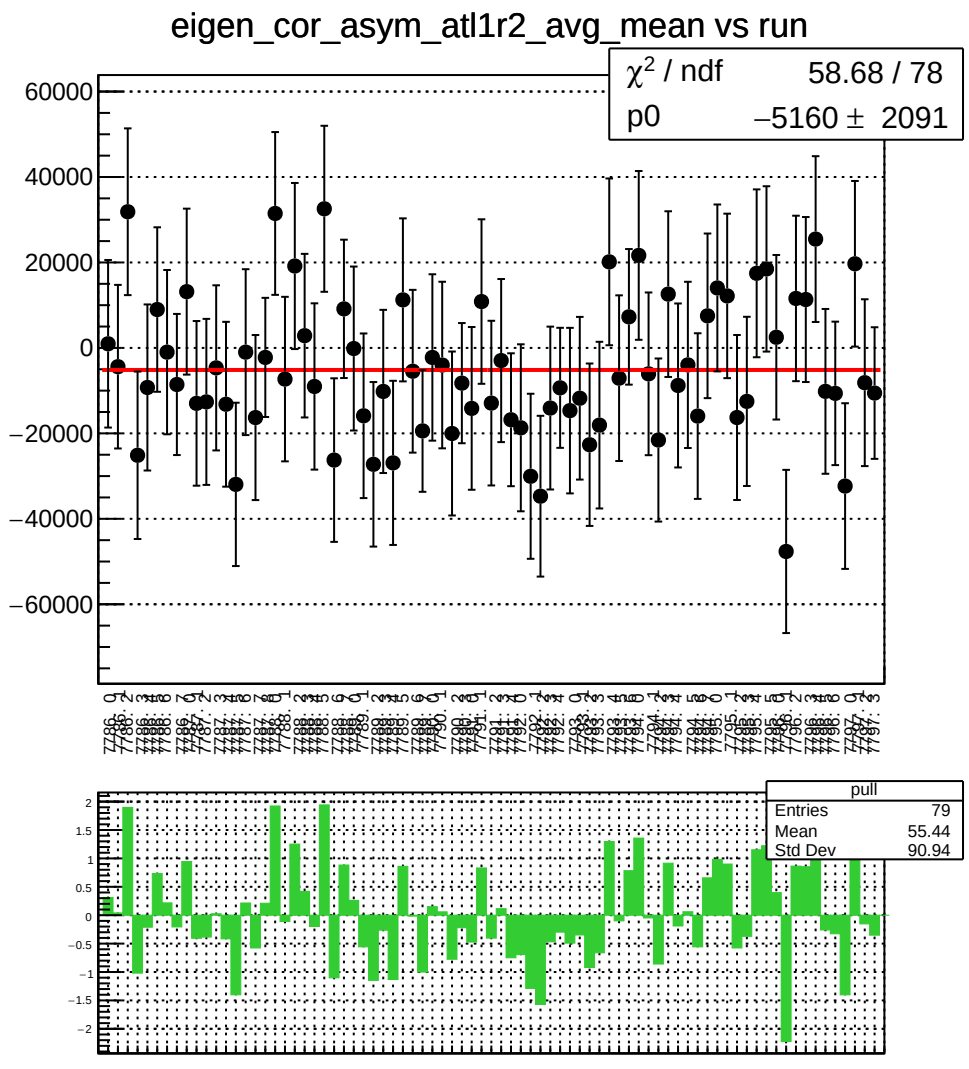

pull1D
Entries 79
Mean 0.008552
Std Dev 0.8618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

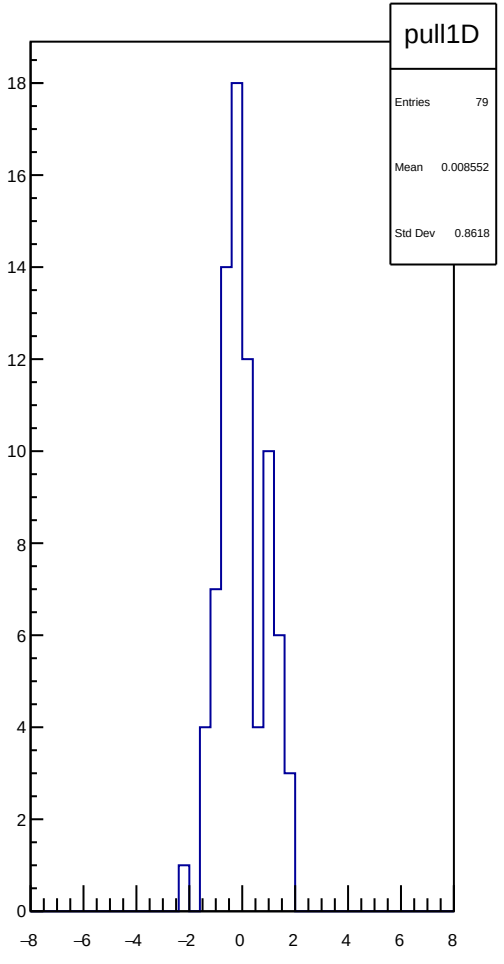

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 131 / 78
p0 1831 ± 1.479
1900
1880
1860
1840
1820
1800
1780
1760

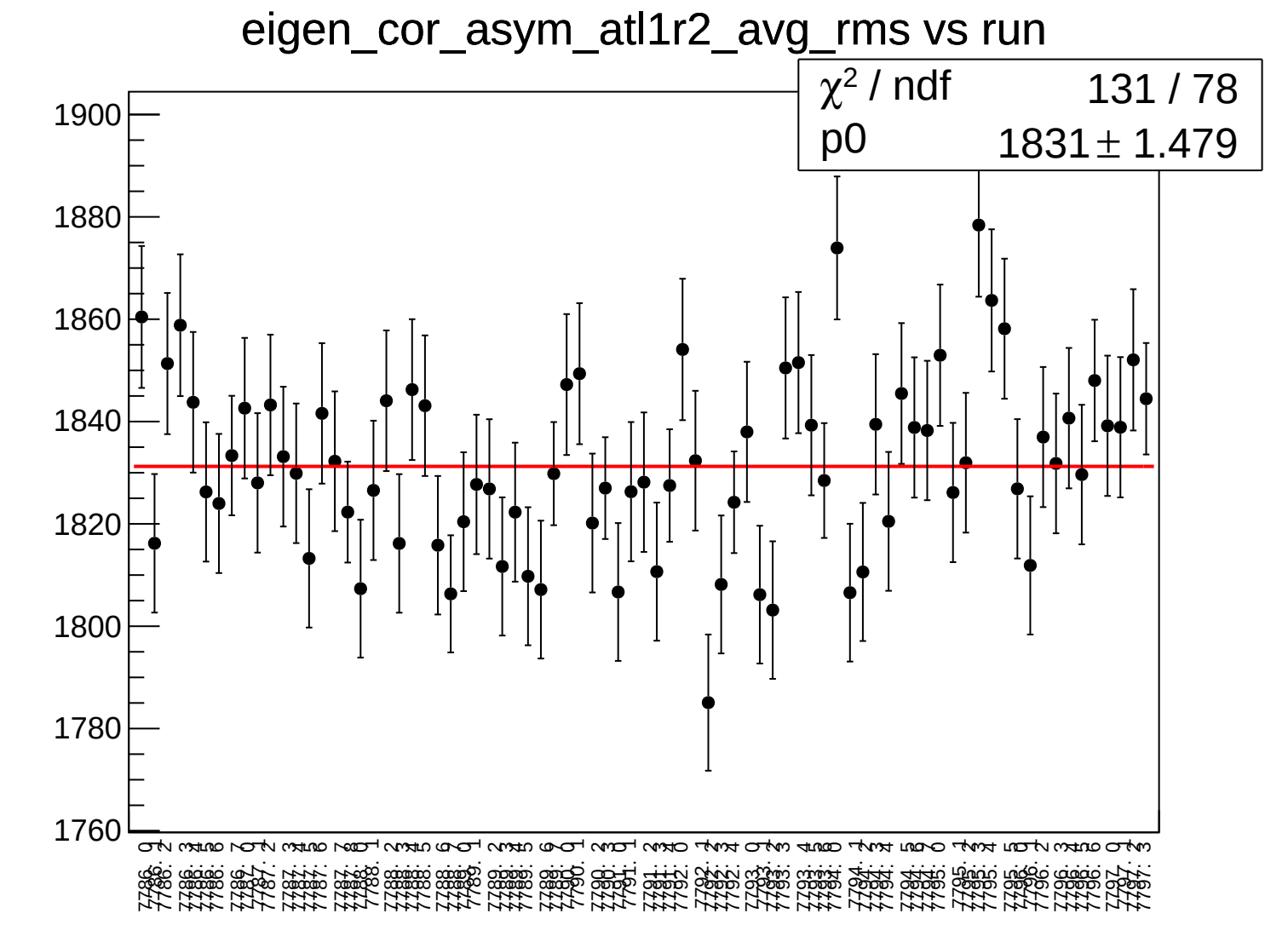

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.03 / 78
p0 3518 ± 7320
200
100
0
−100
−200
pull
Entries 79
Mean −206.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

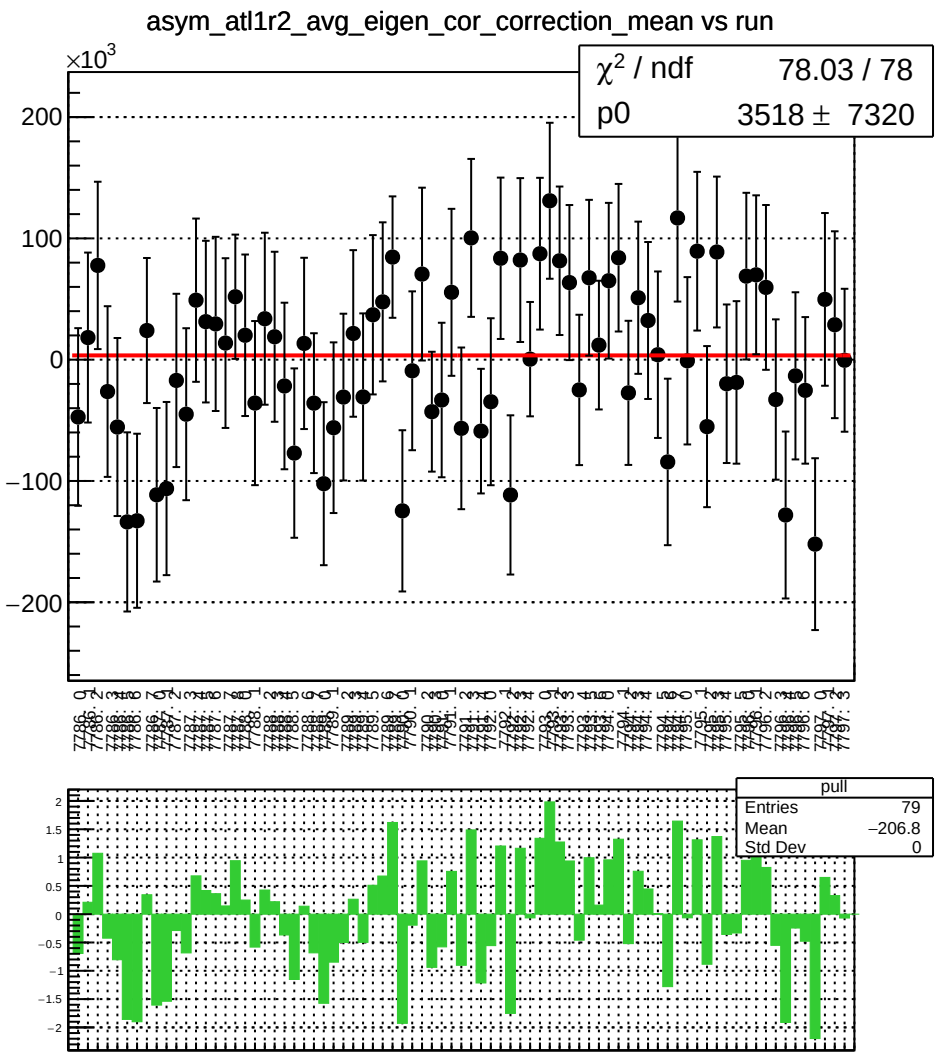

pull1D
Entries 79
Mean −0.01719
Std Dev 0.9937
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

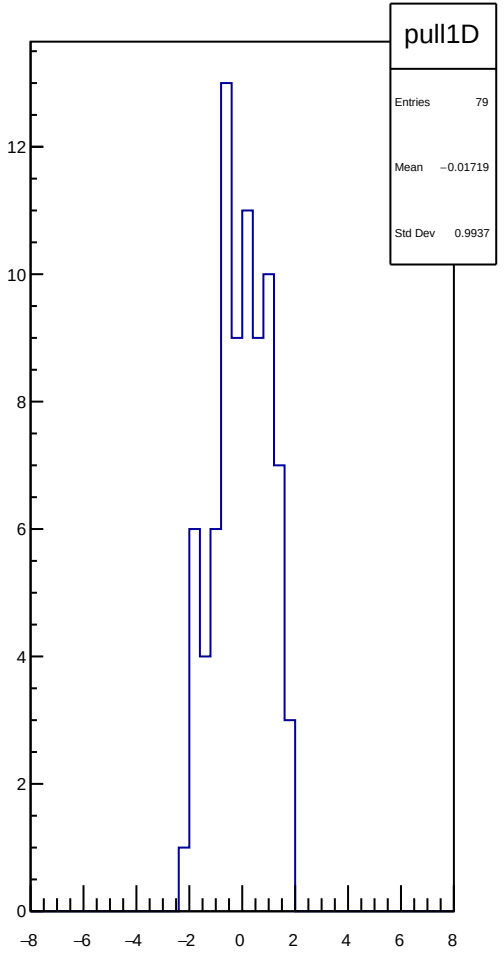

asym_atl1r2_avg_cor_correction_rms vs run
χ^2 / ndf 3733 / 78
p0 6403 ± 5.176
7500
7000
6500
6000
5500

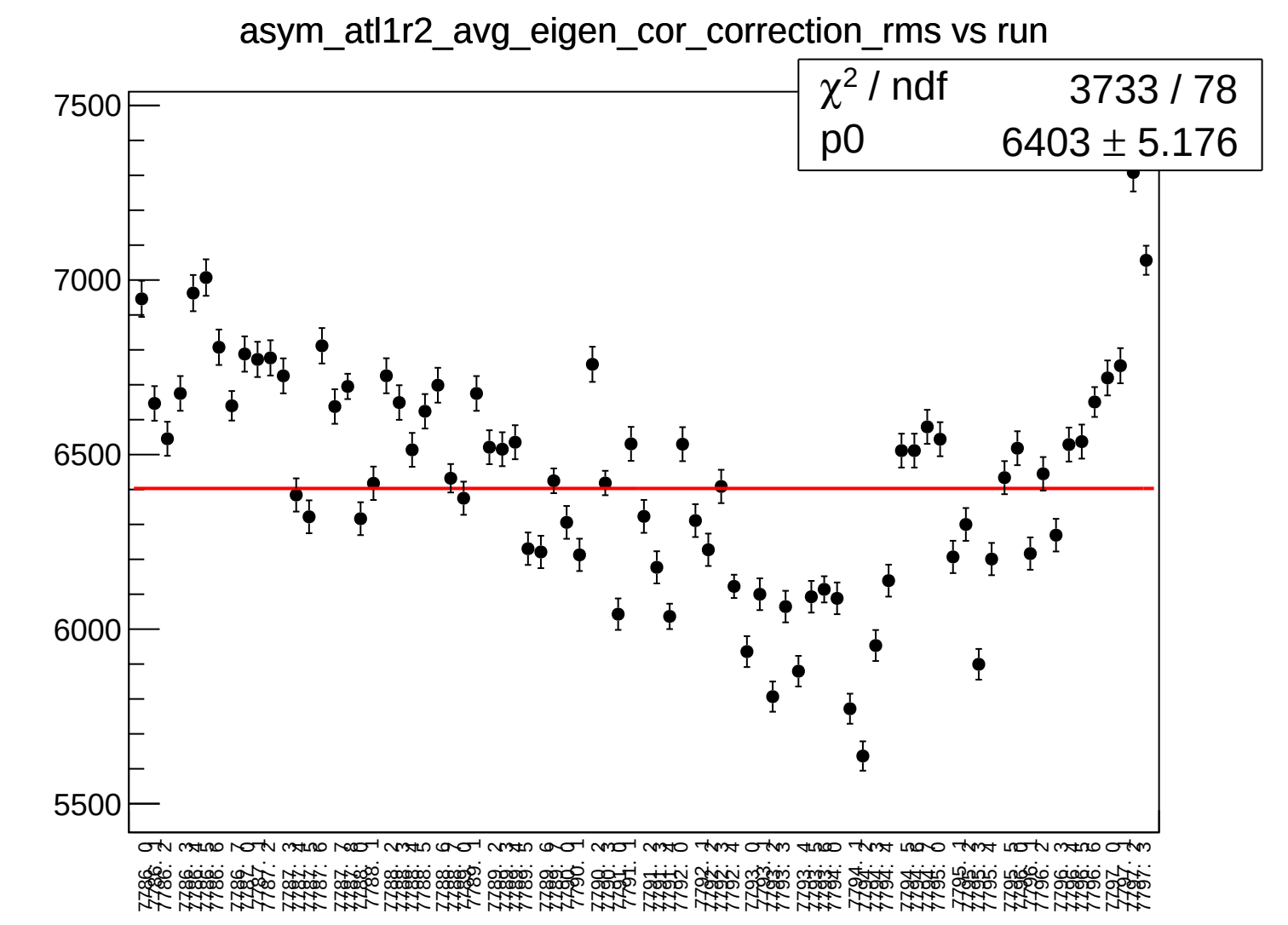

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 58.68 / 78
p0 −5160 ± 2091
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 55.44
Std Dev 90.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

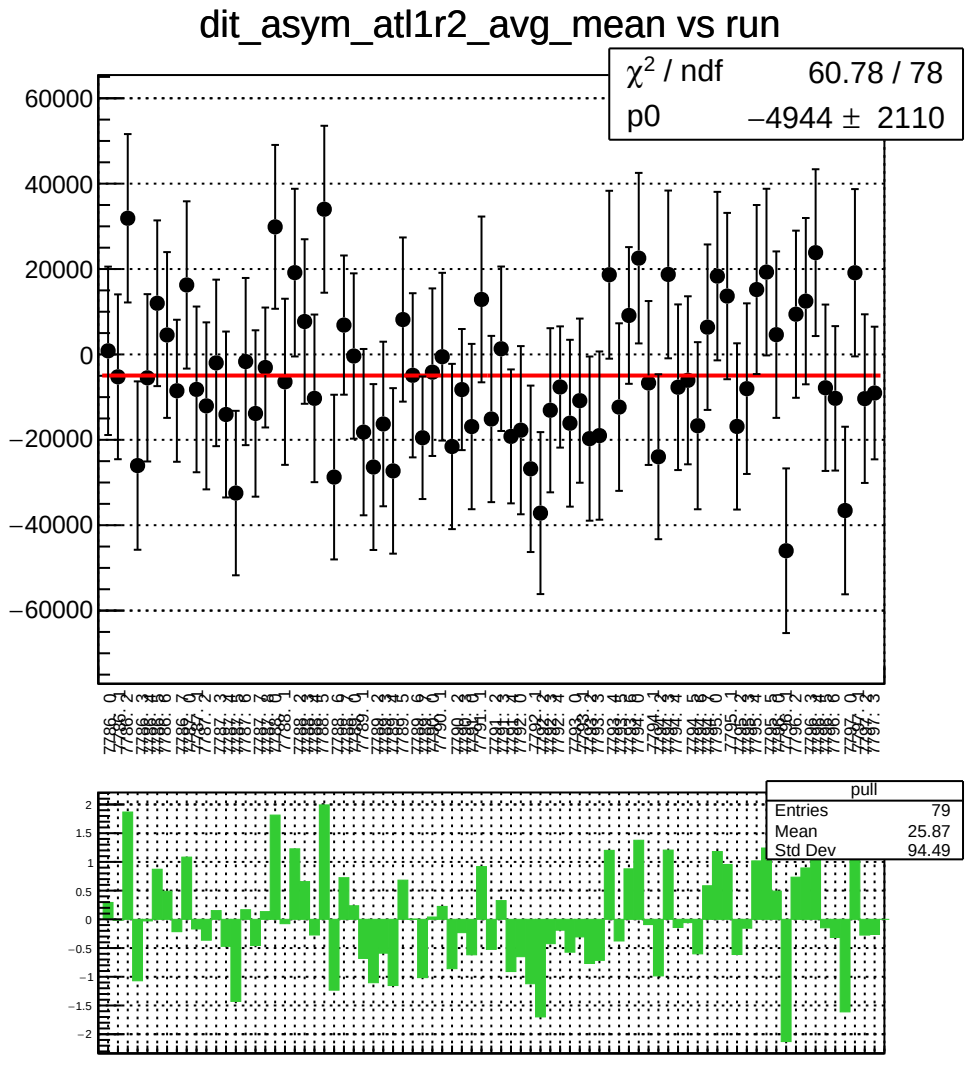

pull1D
Entries 79
Mean 0.008552
Std Dev 0.8618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

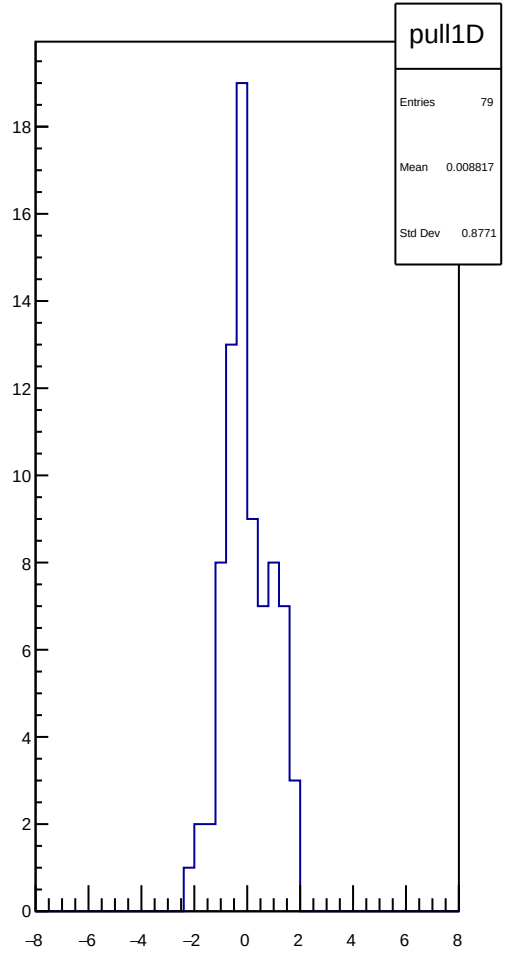

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 131 / 78
p0 1831 ± 1.479
1900
1880
1860
1840
1820
1800
1780
1760

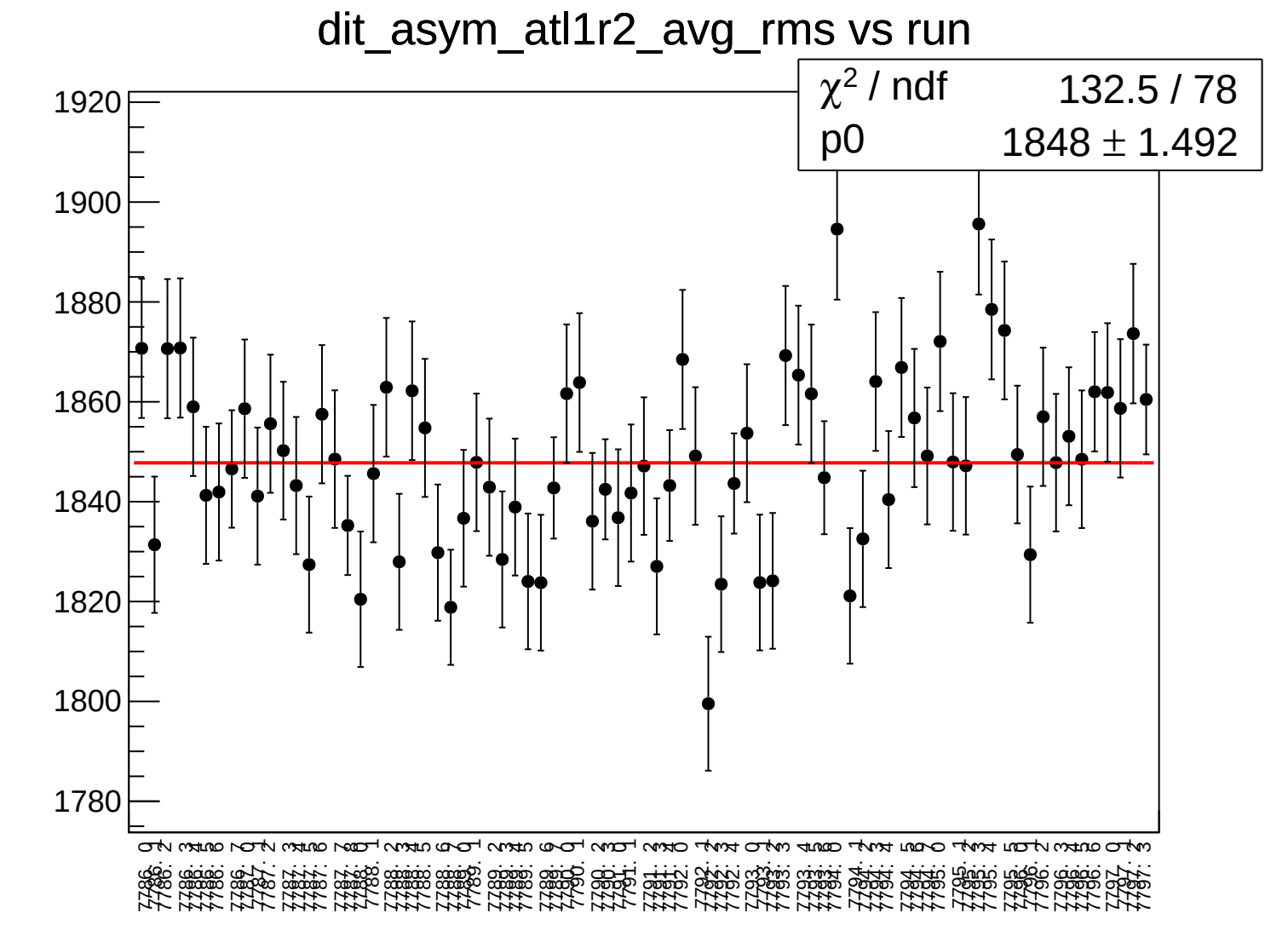

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.03 / 78
p0 3518 ± 7320
200
100
0
−100
−200
pull
Entries 79
Mean −206.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

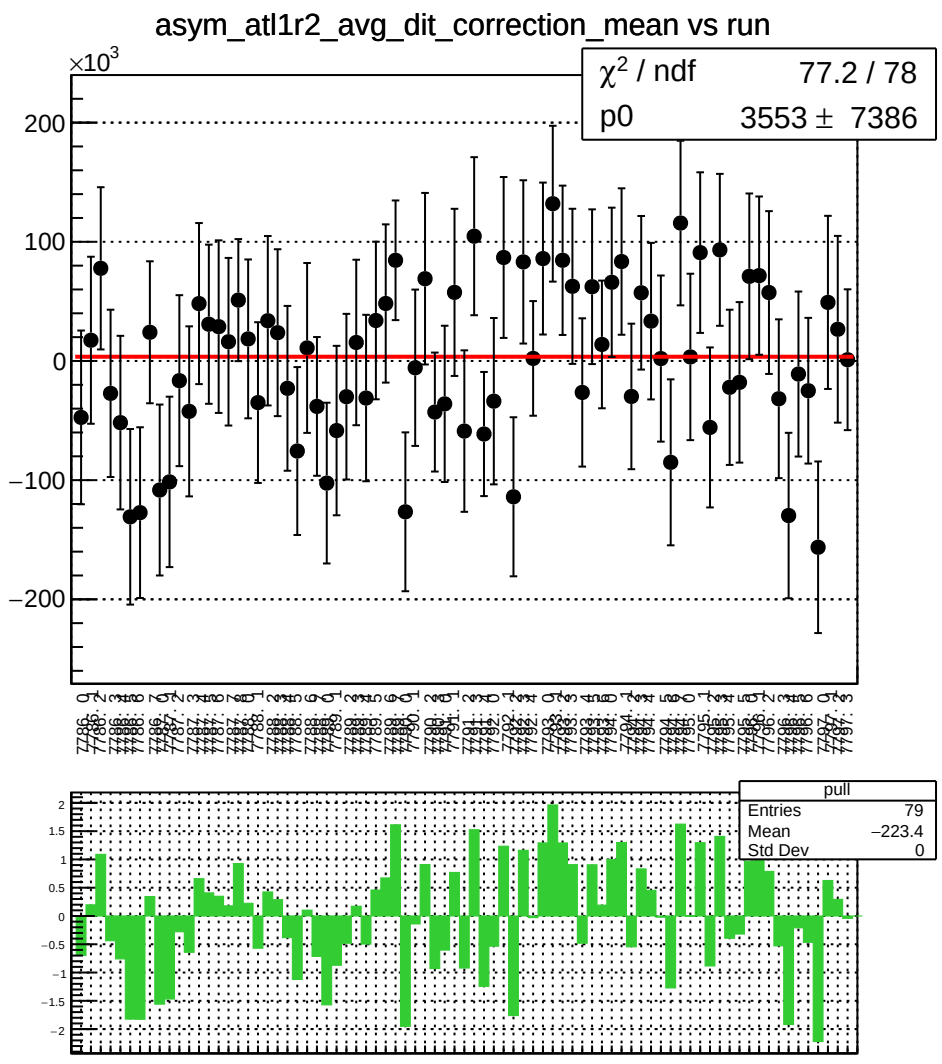

pull1D
Entries 79
Mean −0.01719
Std Dev 0.9937
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

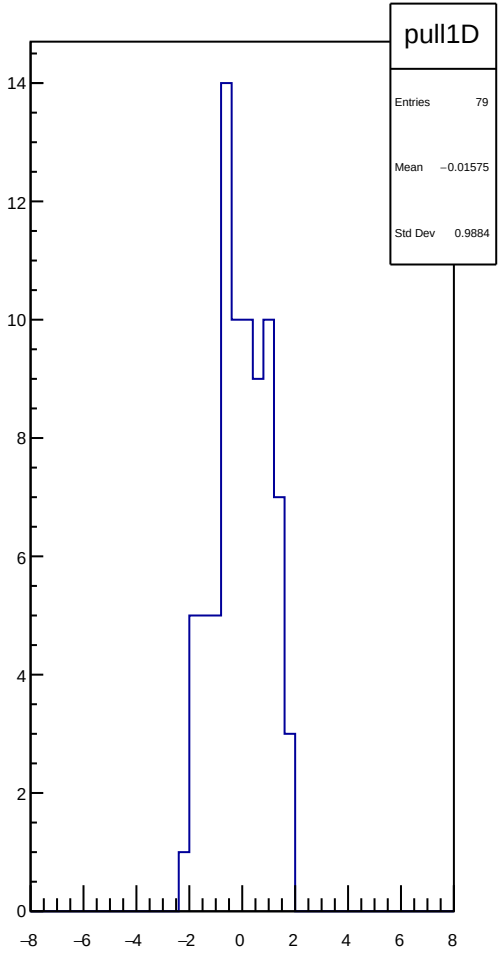

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3733 / 78
p0 6403 ± 5.176
7500
7000
6500
6000
5500

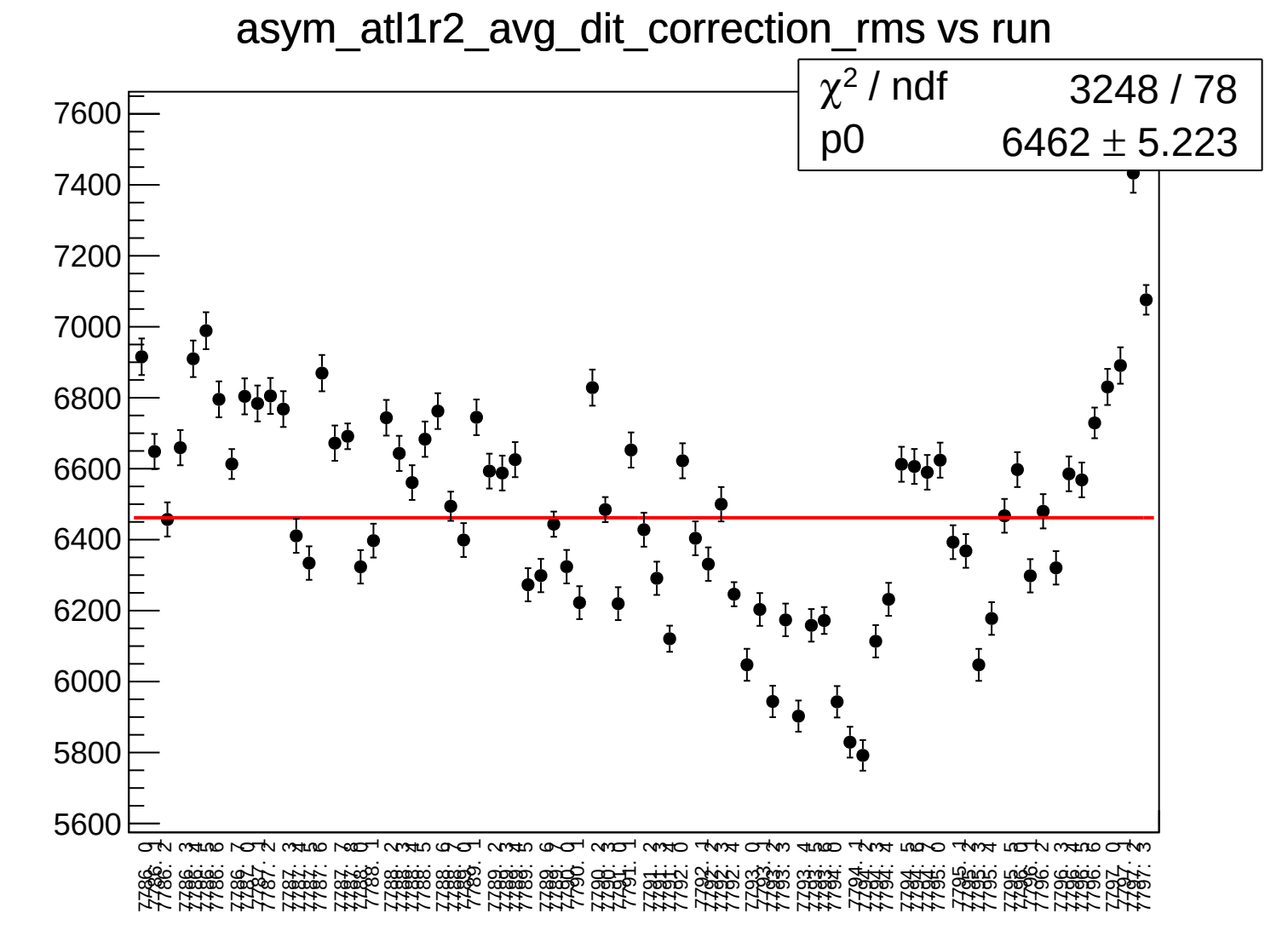

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 60.78 / 78
p0 −4944 ± 2110
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 25.87
Std Dev 94.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

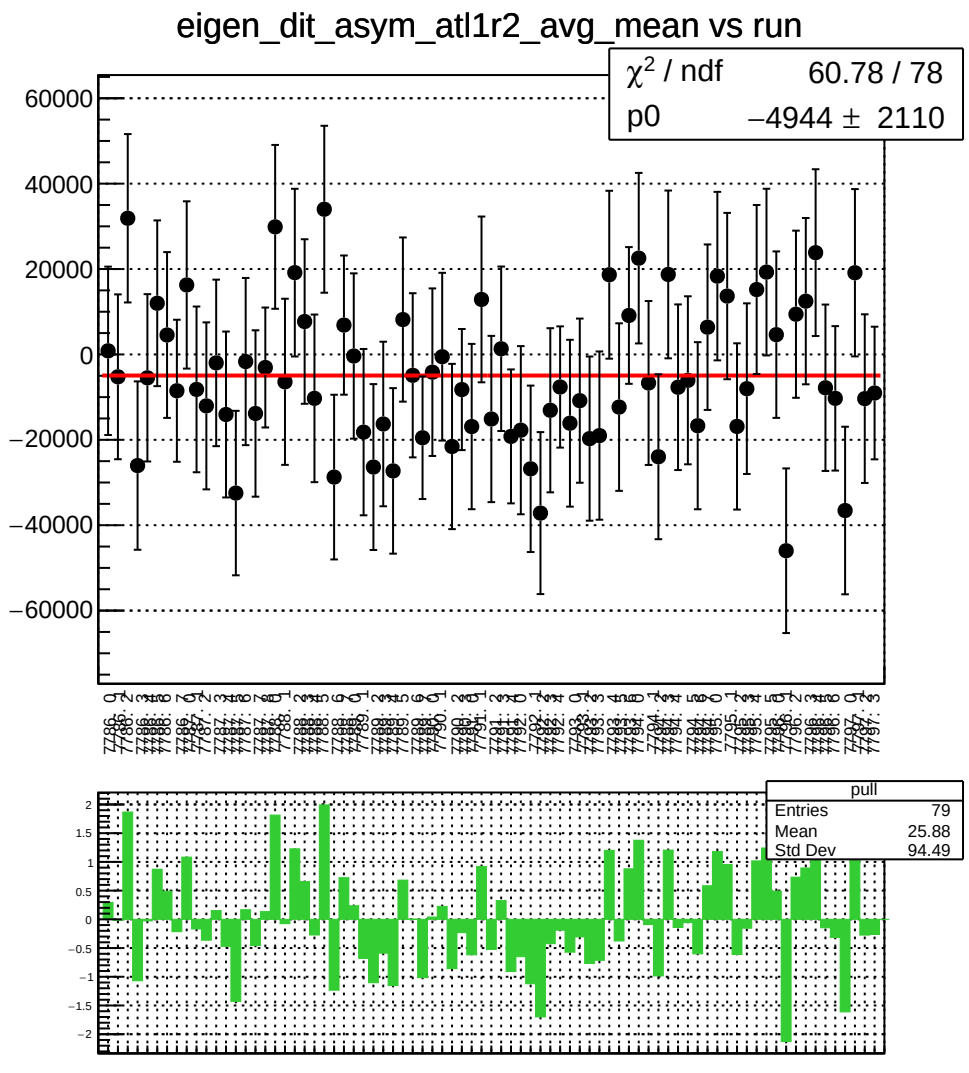

pull1D
Entries 79
Mean 0.008817
Std Dev 0.8771
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

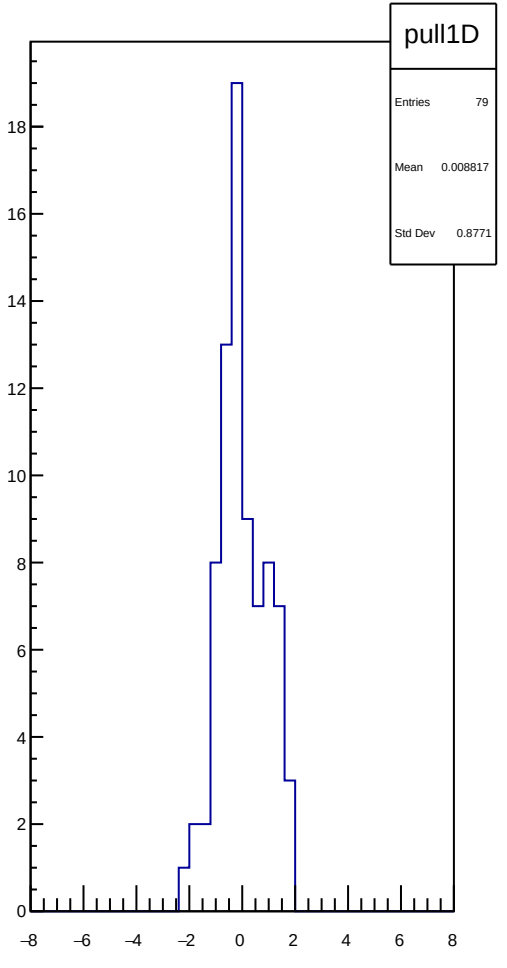

dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 132.5 / 78
p0 1848 ± 1.492
1920
1900
1880
1860
1840
1820
1800
1780

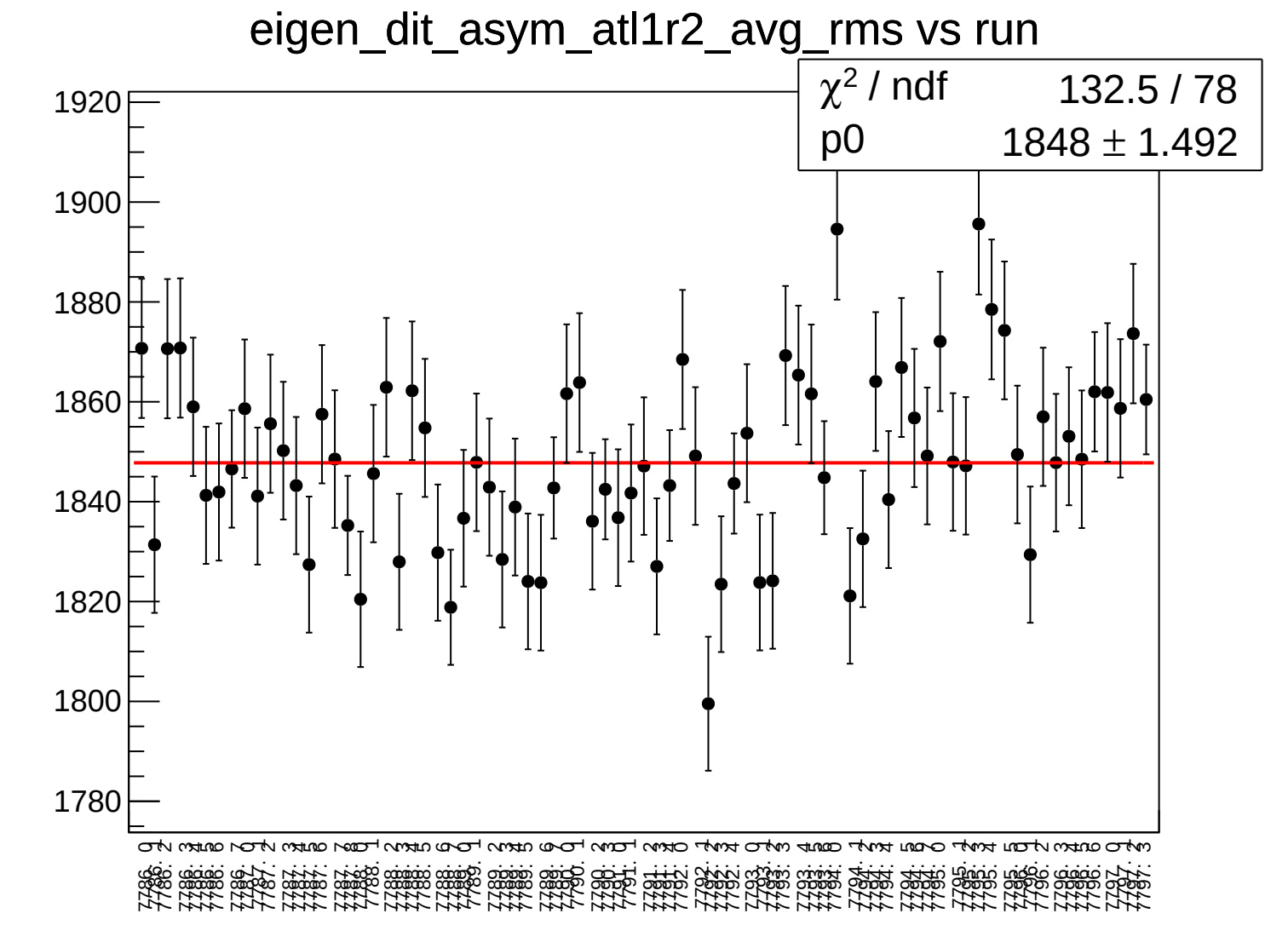

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 77.2 / 78
p0 3553 ± 7386
×10³
200
100
0
−100
−200
pull
Entries 79
Mean −223.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

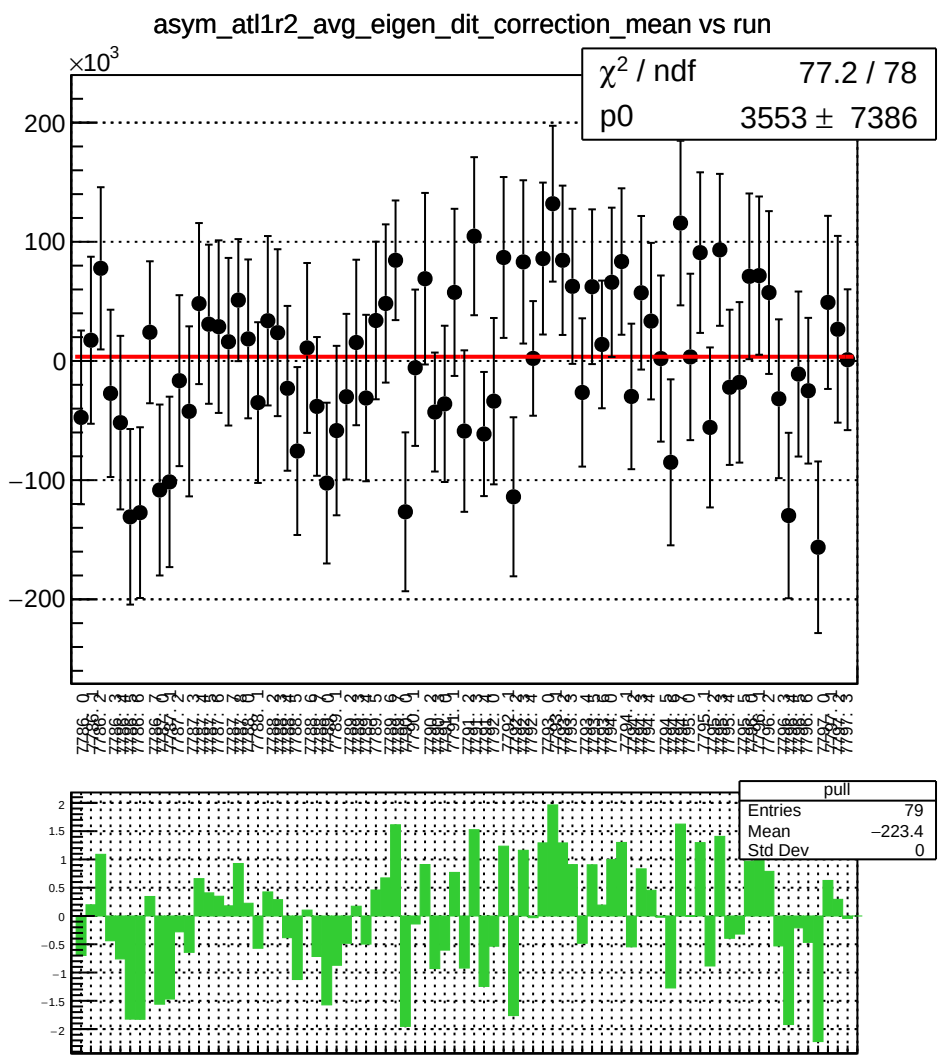

pull1D
Entries 79
Mean −0.01575
Std Dev 0.9884
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

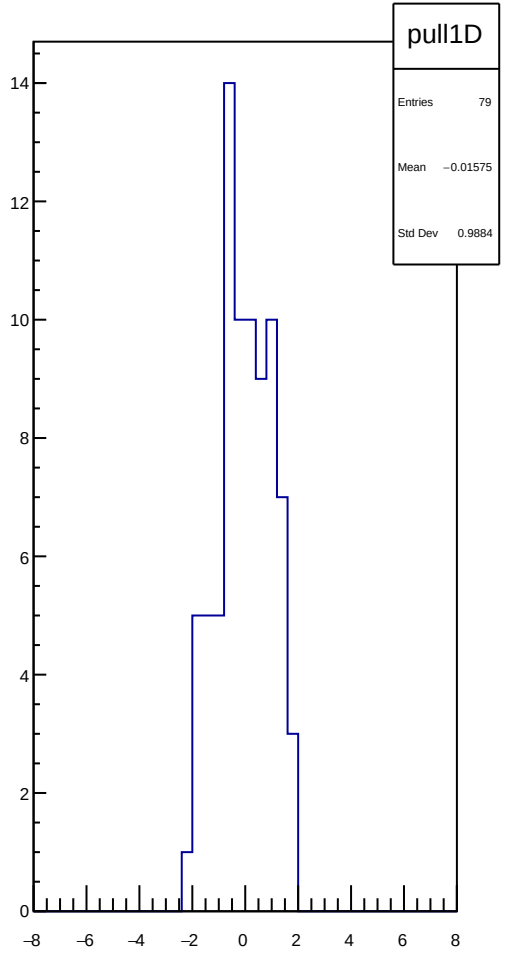

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 3248 / 78
p0 6462 ± 5.223
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

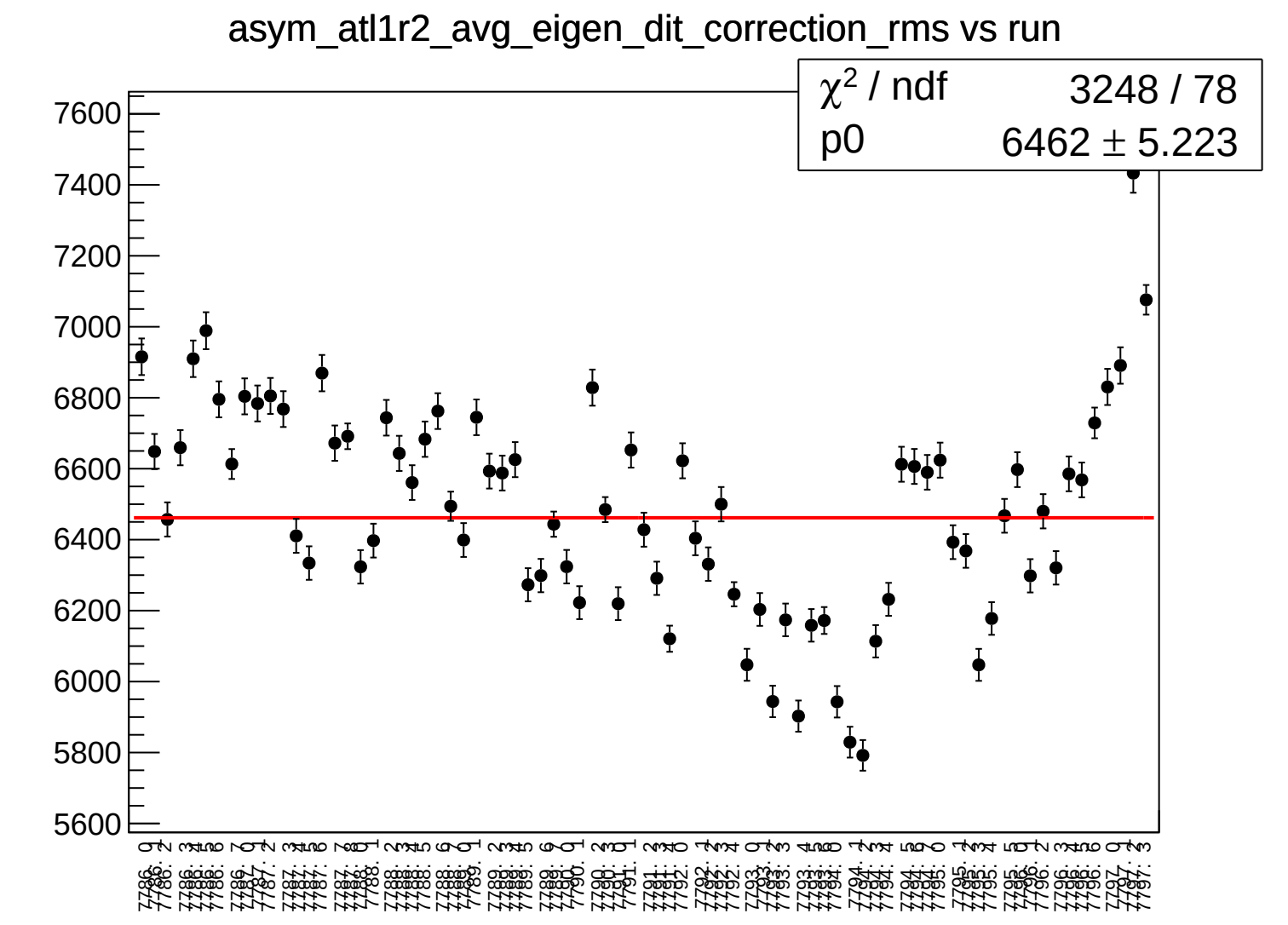

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 60.78 / 78
p0 −4944 ± 2110
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 25.88
Std Dev 94.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

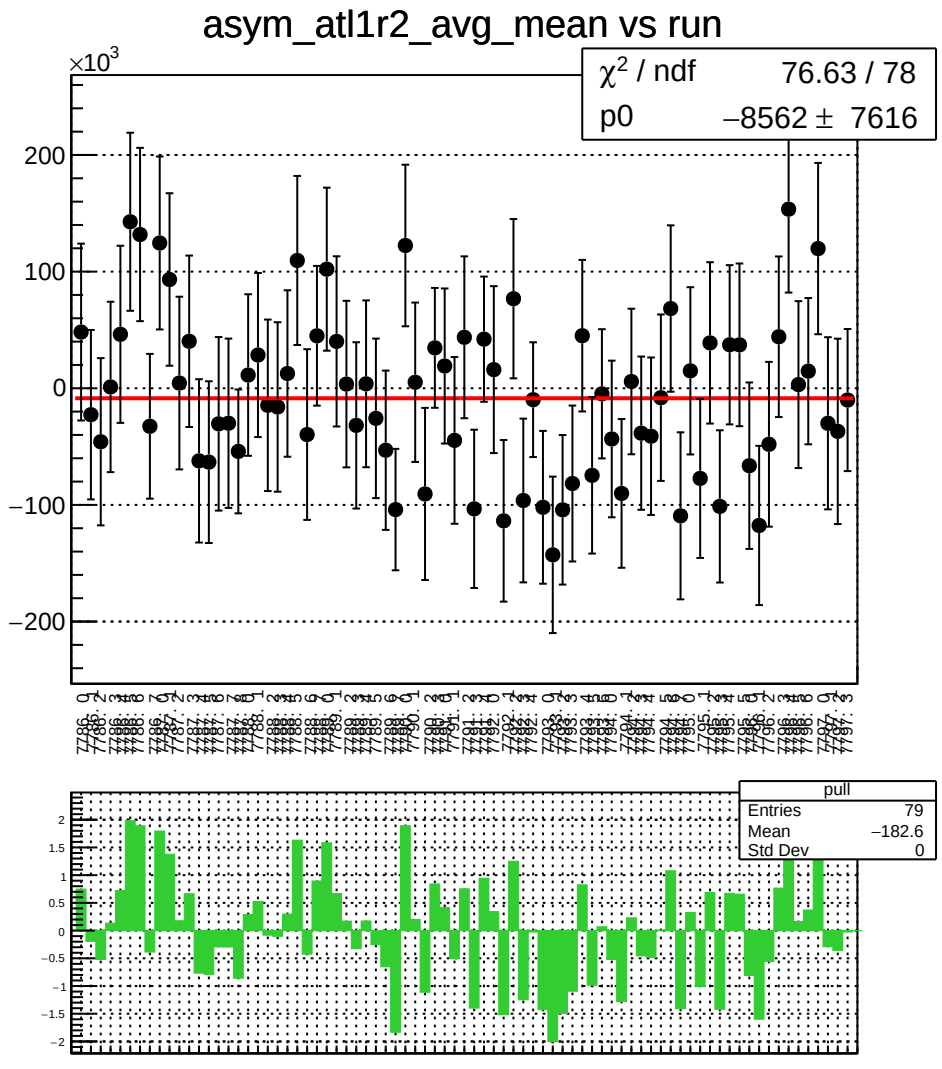

pull1D
Entries 79
Mean 0.008817
Std Dev 0.8771
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

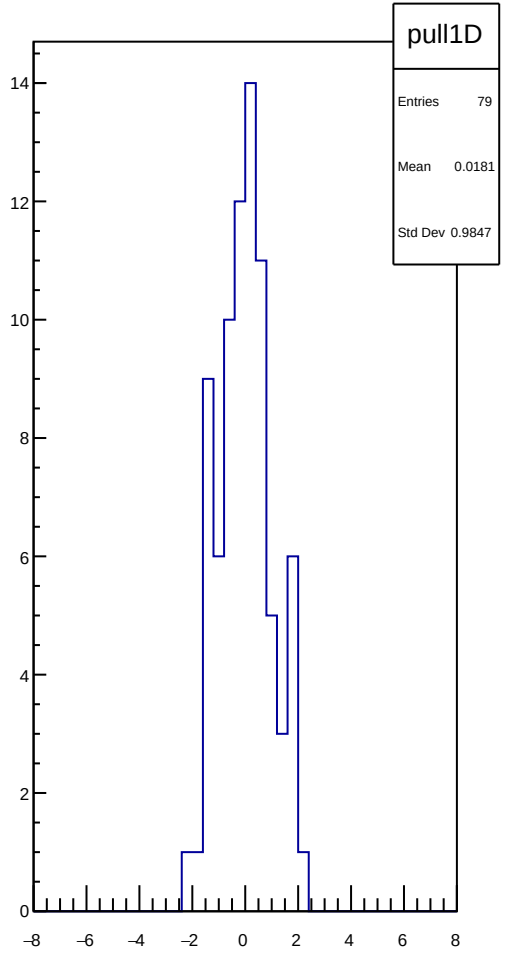

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 132.5 / 78
p0 1848 ± 1.492
1920
1900
1880
1860
1840
1820
1800
1780

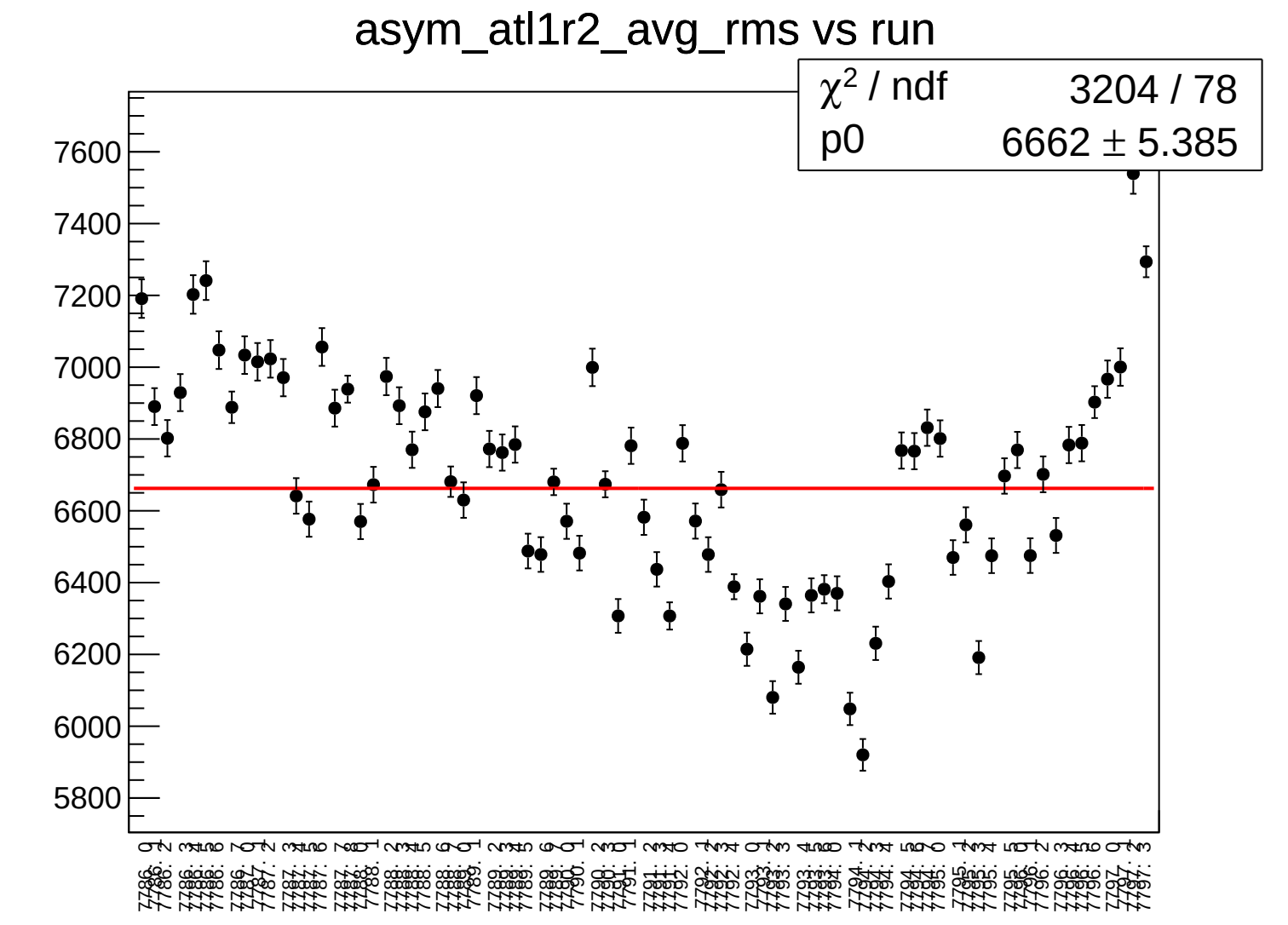

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.2 / 78
p0 3553 ± 7386
200
100
0
−100
−200
pull
Entries 79
Mean −223.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

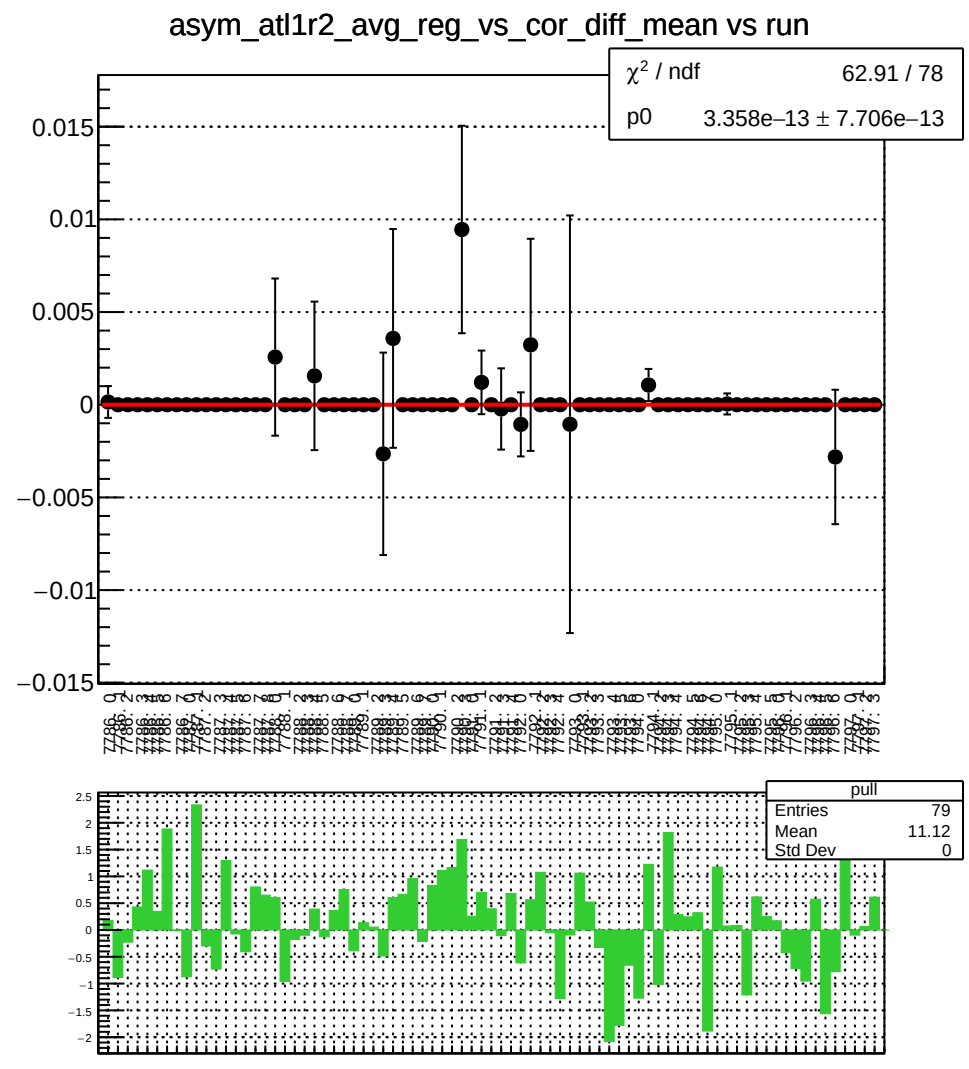

pull1D
Entries 79
Mean −0.01575
Std Dev 0.9884
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

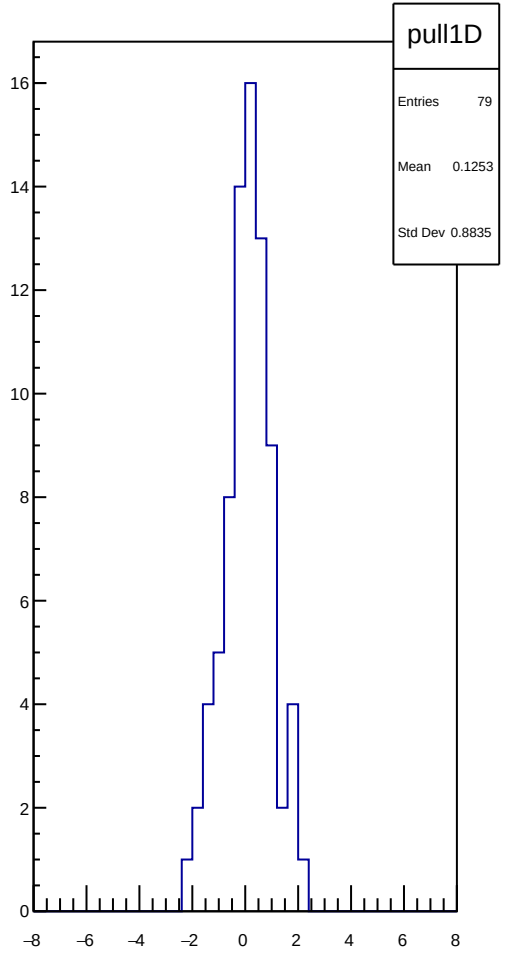

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3248 / 78
p0 6462 ± 5.223
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

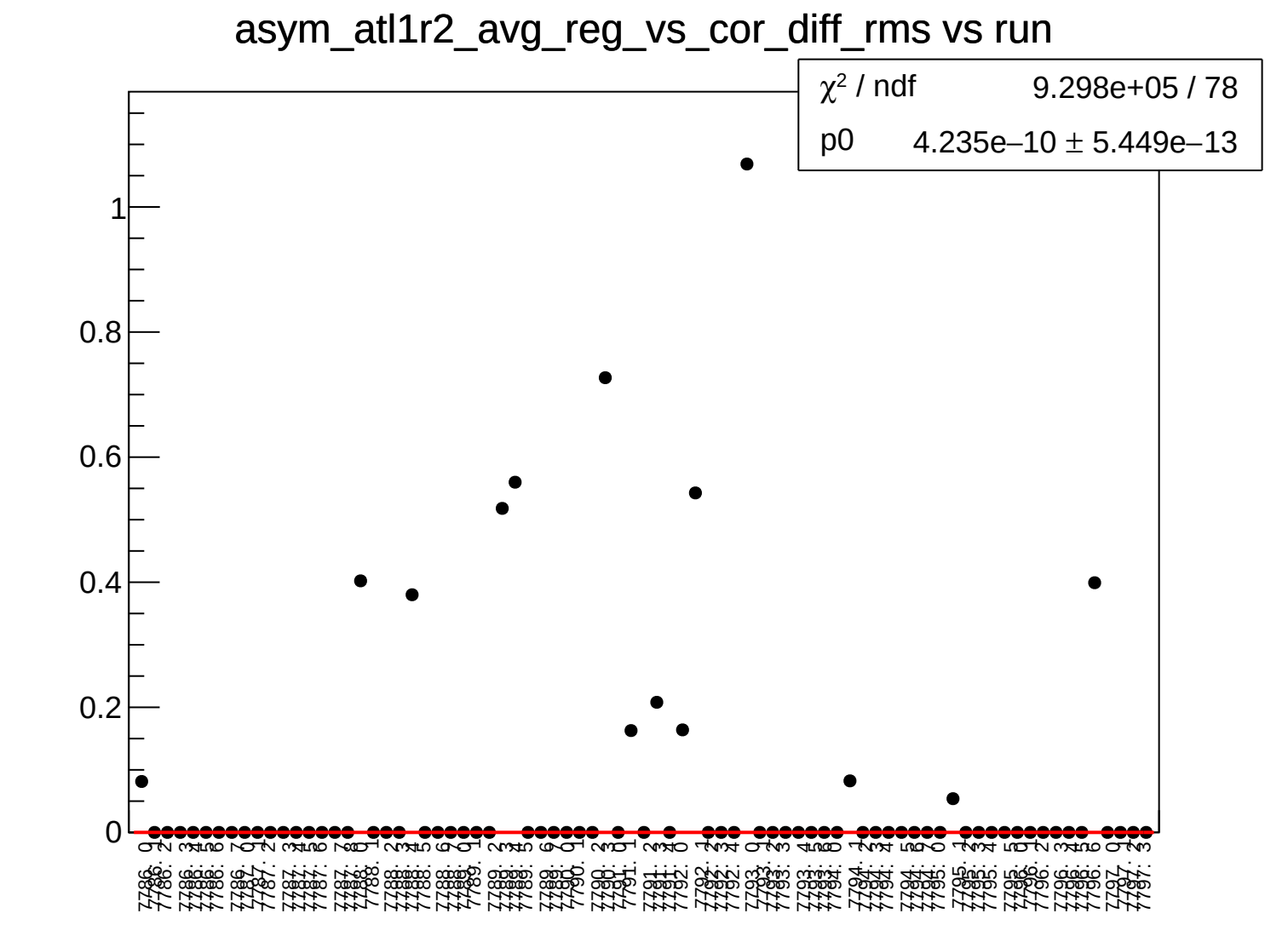

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 76.63 / 78
p0 −8562 ± 7616
200
100
0
−100
−200
pull
Entries 79
Mean −182.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

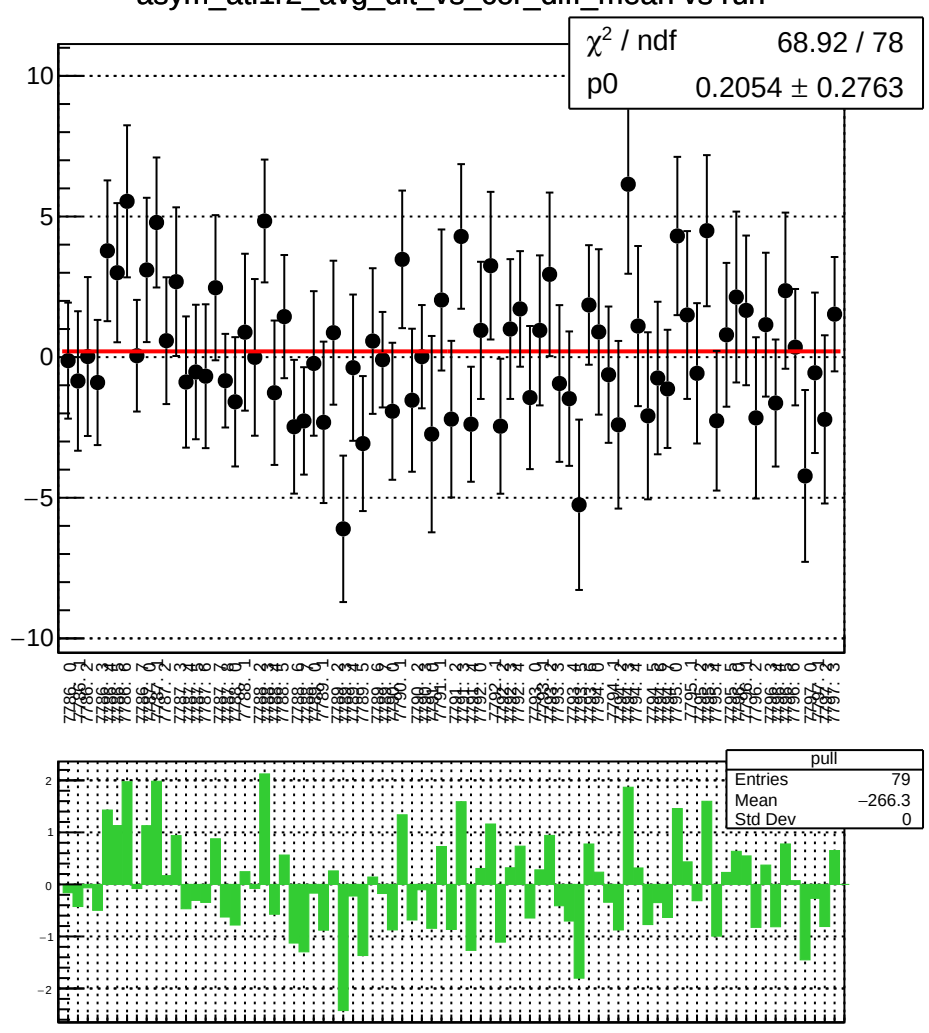

pull1D
Entries 79
Mean 0.0181
Std Dev 0.9847
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

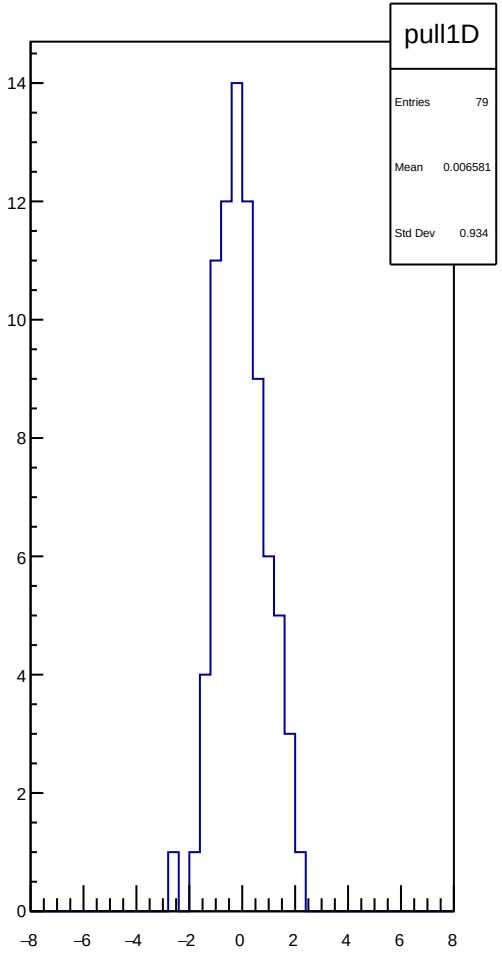

asym_atl1r2_avg_rms vs run
χ^2 / ndf 3204 / 78
p0 6662 ± 5.385
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

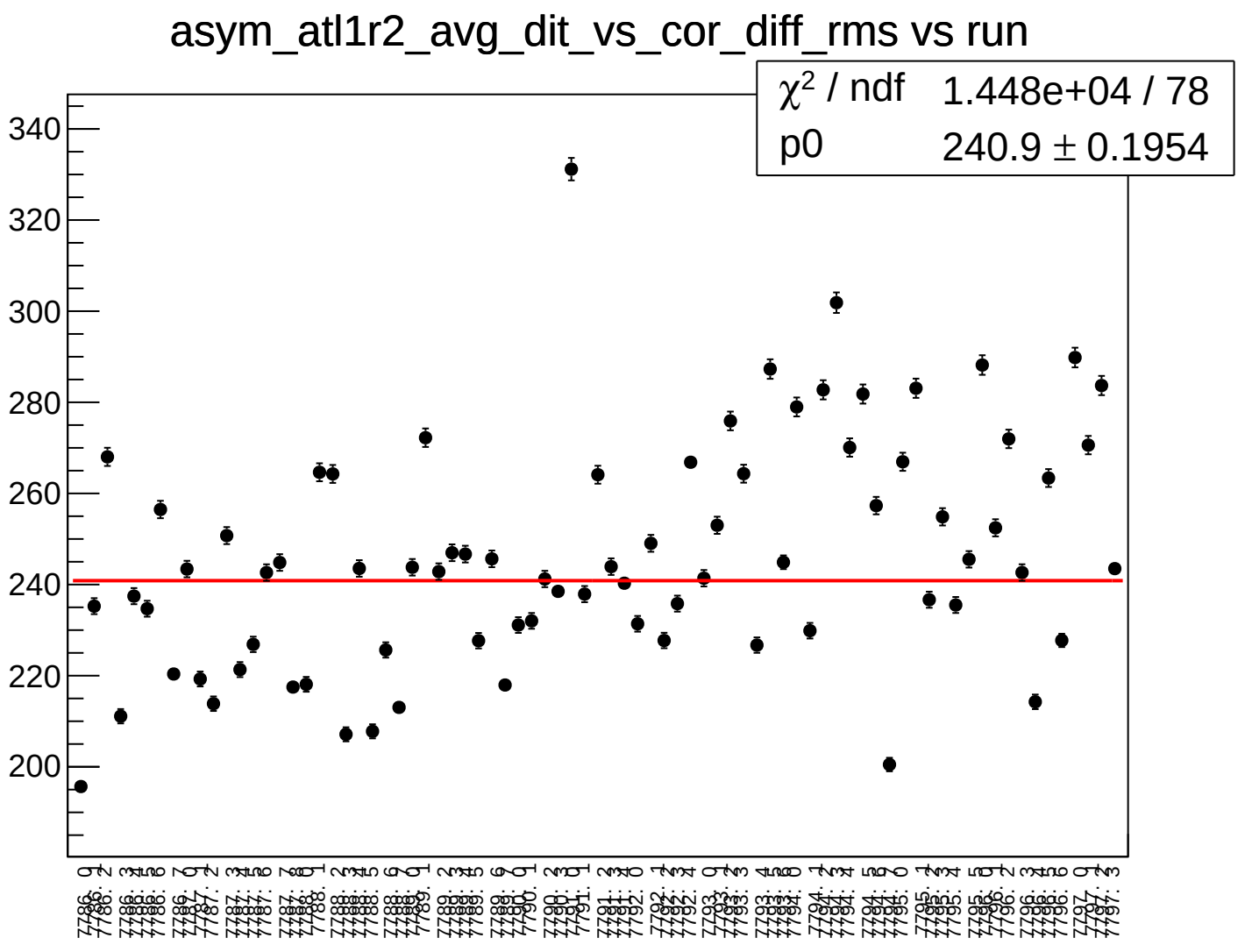

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.91 / 78
p0 3.358e−13 ± 7.706e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 79
Mean 11.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

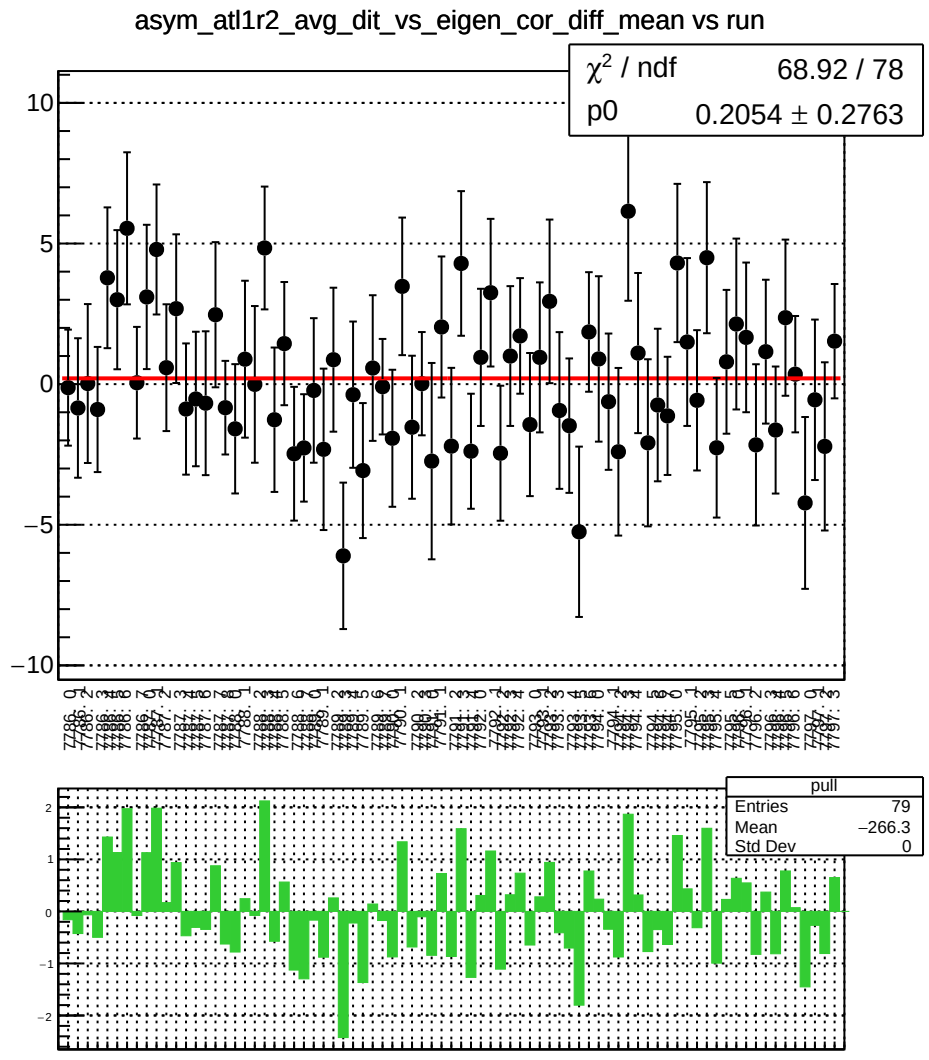

pull1D
Entries 79
Mean 0.1253
Std Dev 0.8835
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

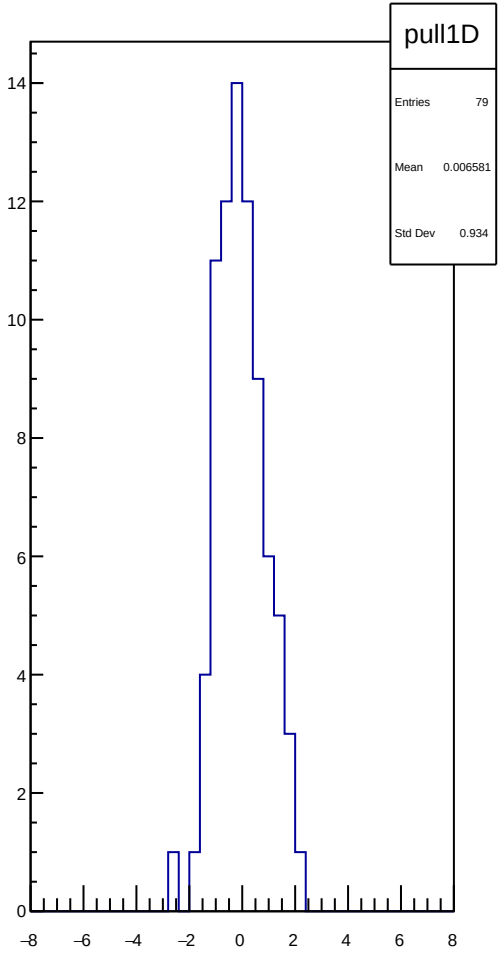

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.298e+05 / 78
p0 4.235e−10 ± 5.449e−13
1
0.8
0.6
0.4
0.2
0

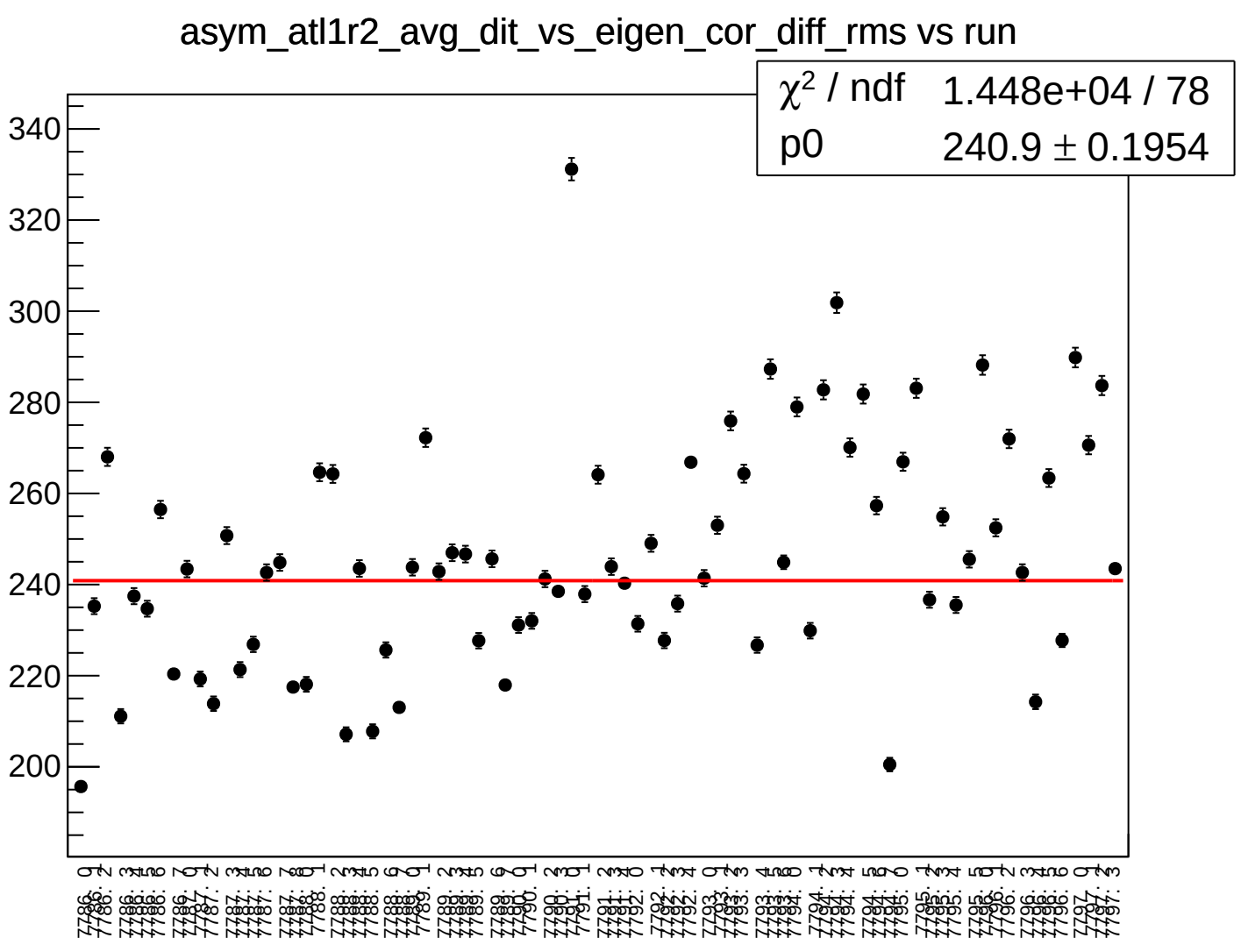

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.92 / 78
p0 0.2054 ± 0.2763
pull
Entries 79
Mean −266.3
Std Dev 0

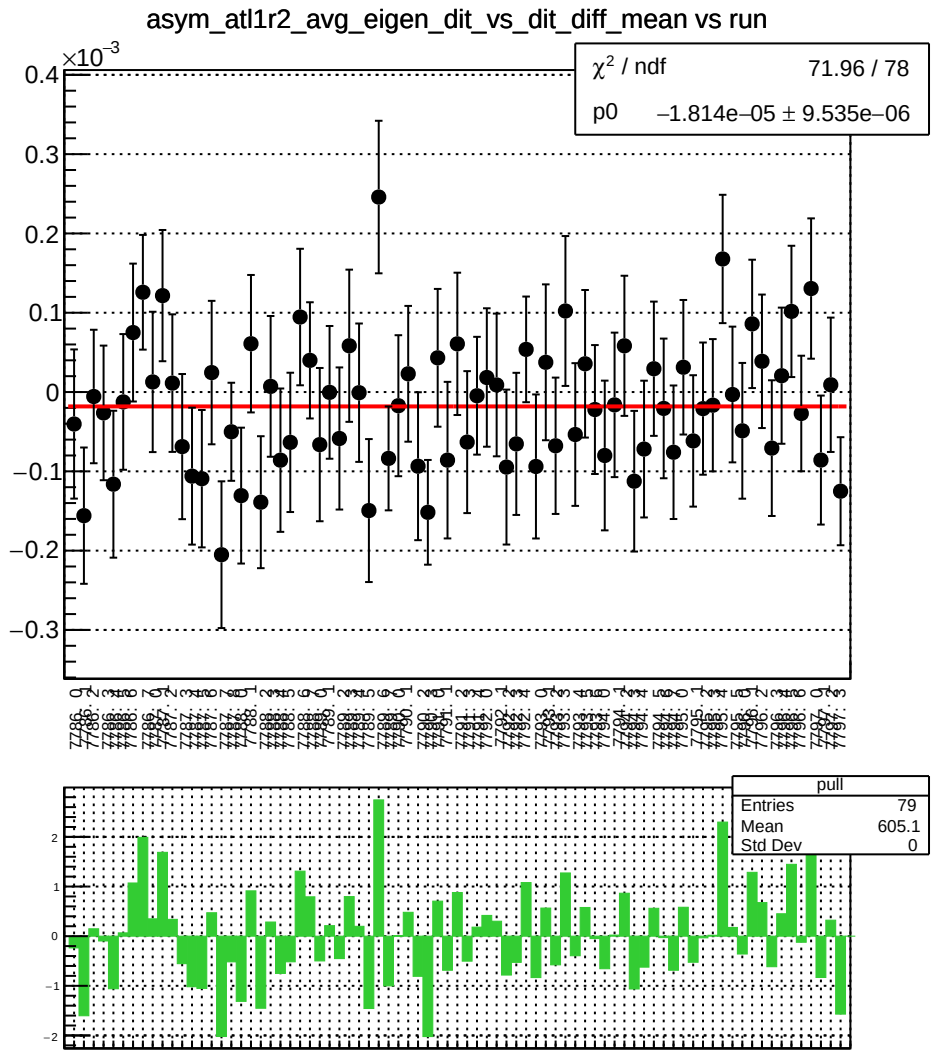

pull1D
Entries 79
Mean 0.006581
Std Dev 0.934

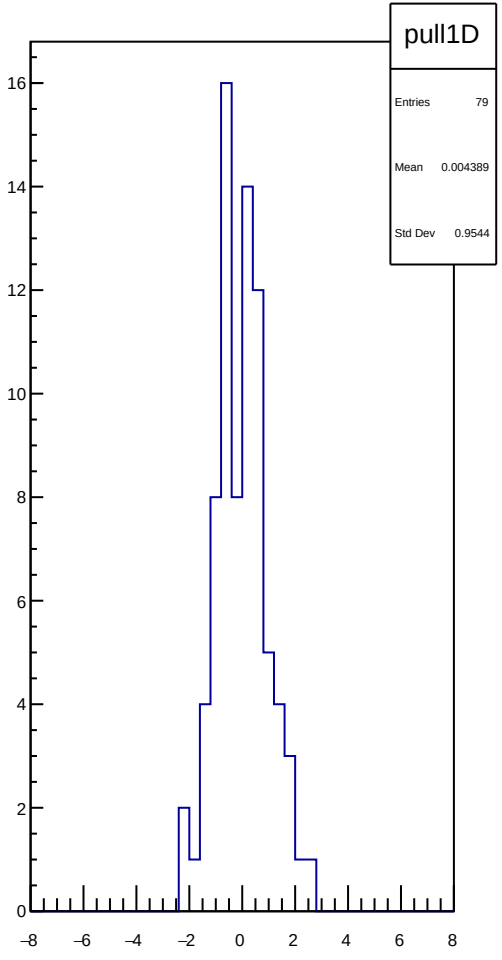

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.448e+04 / 78
p0 240.9 ± 0.1954
340
320
300
280
260
240
220
200

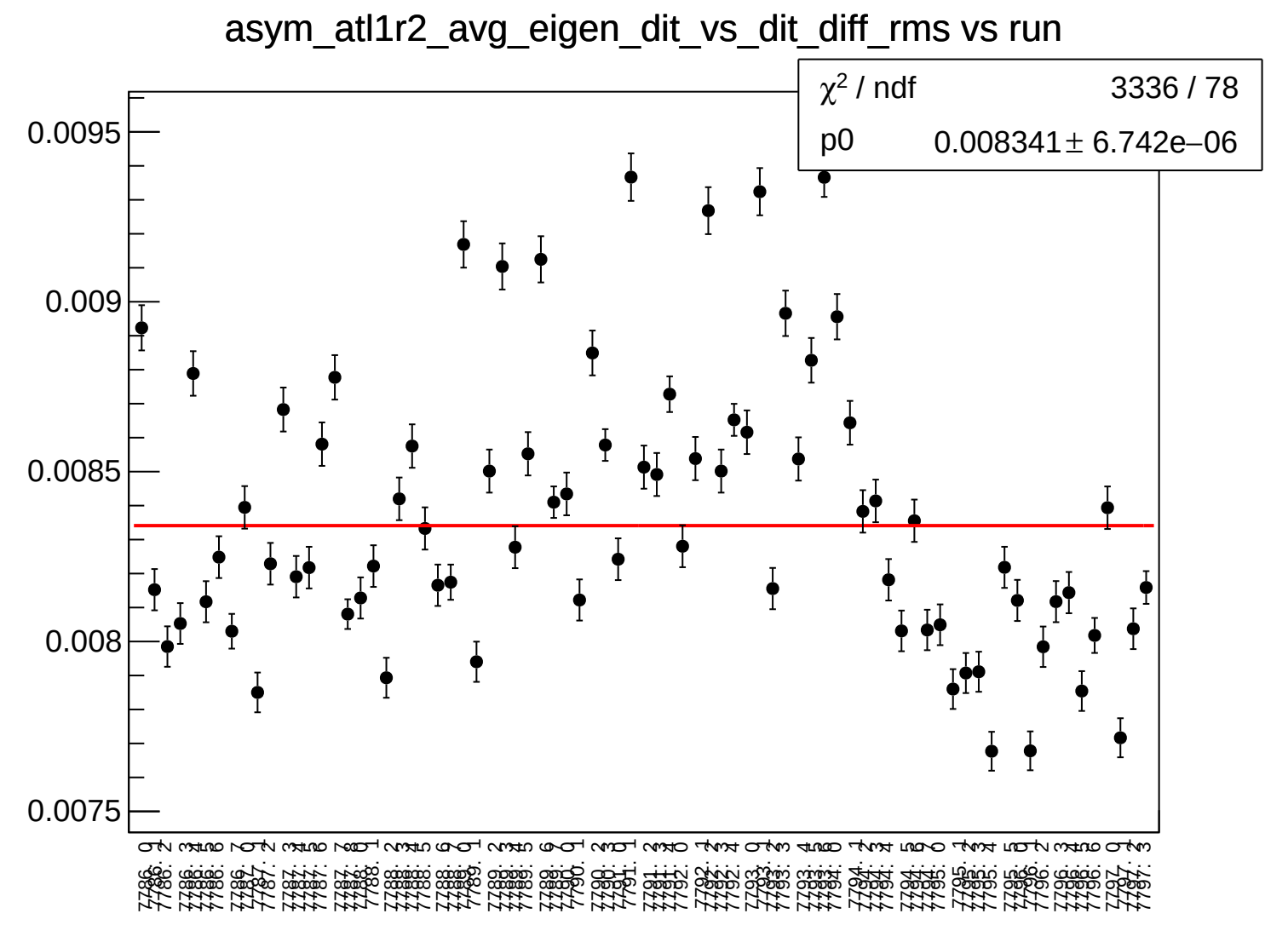

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.92 / 78
p0 0.2054 ± 0.2763
pull
Entries 79
Mean −266.3
Std Dev 0

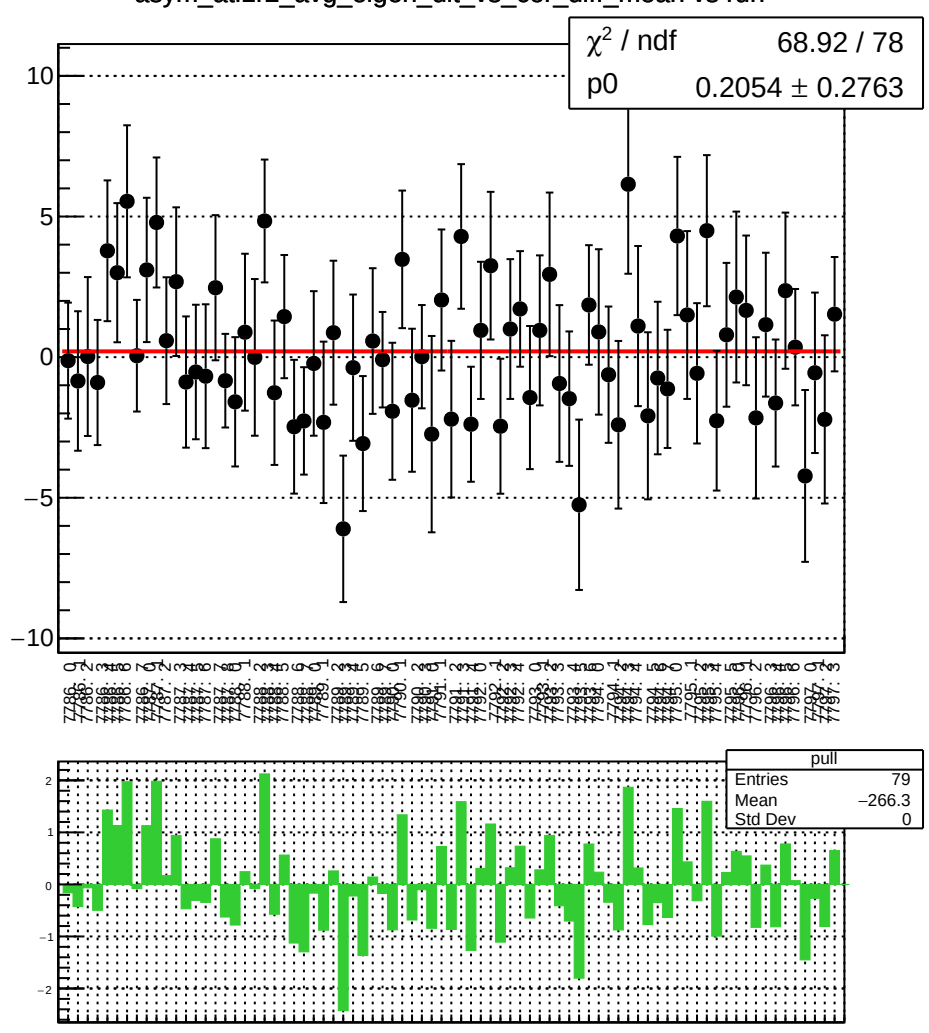

pull1D
Entries 79
Mean 0.006581
Std Dev 0.934

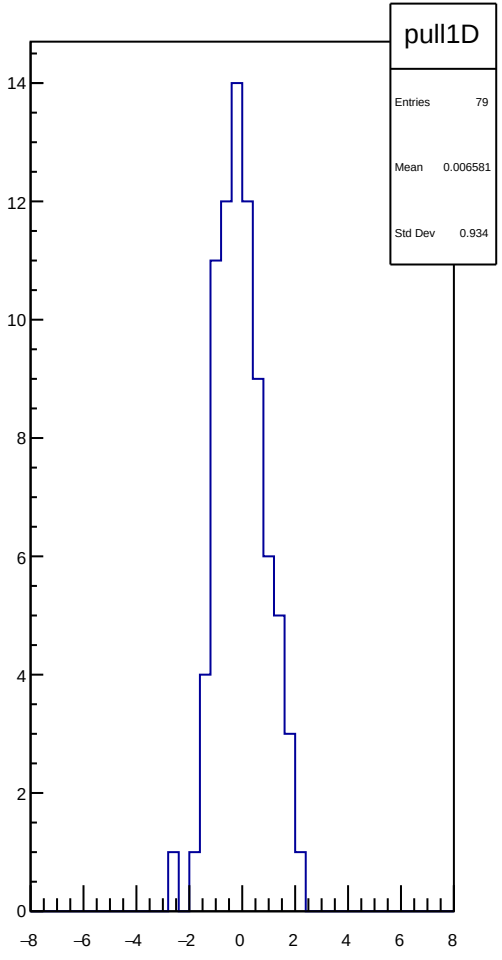

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.448e+04 / 78
p0 240.9 ± 0.1954
340
320
300
280
260
240
220
200

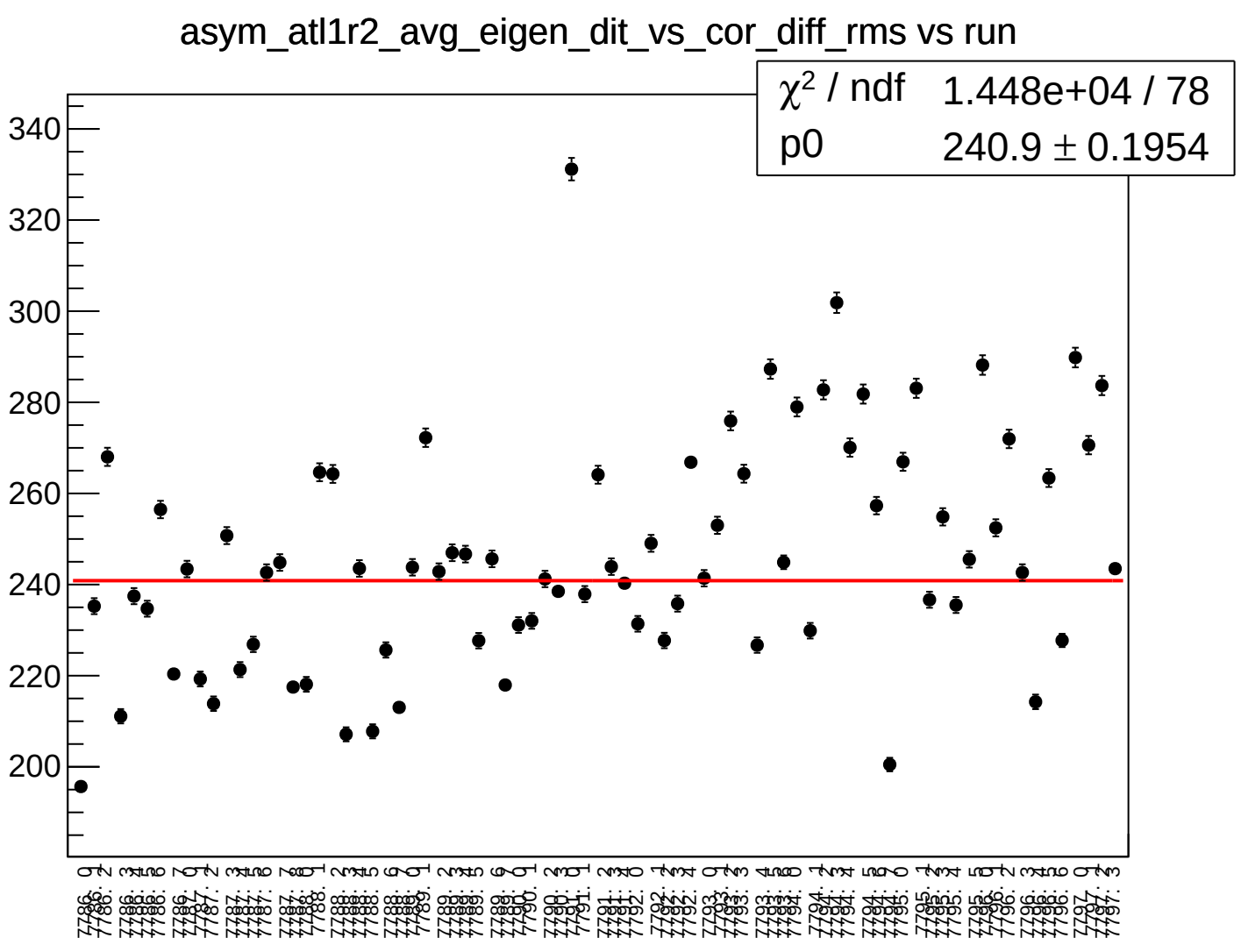

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.96 / 78
p0 −1.814e−05 ± 9.535e−06
pull
Entries 79
Mean 605.1
Std Dev 0

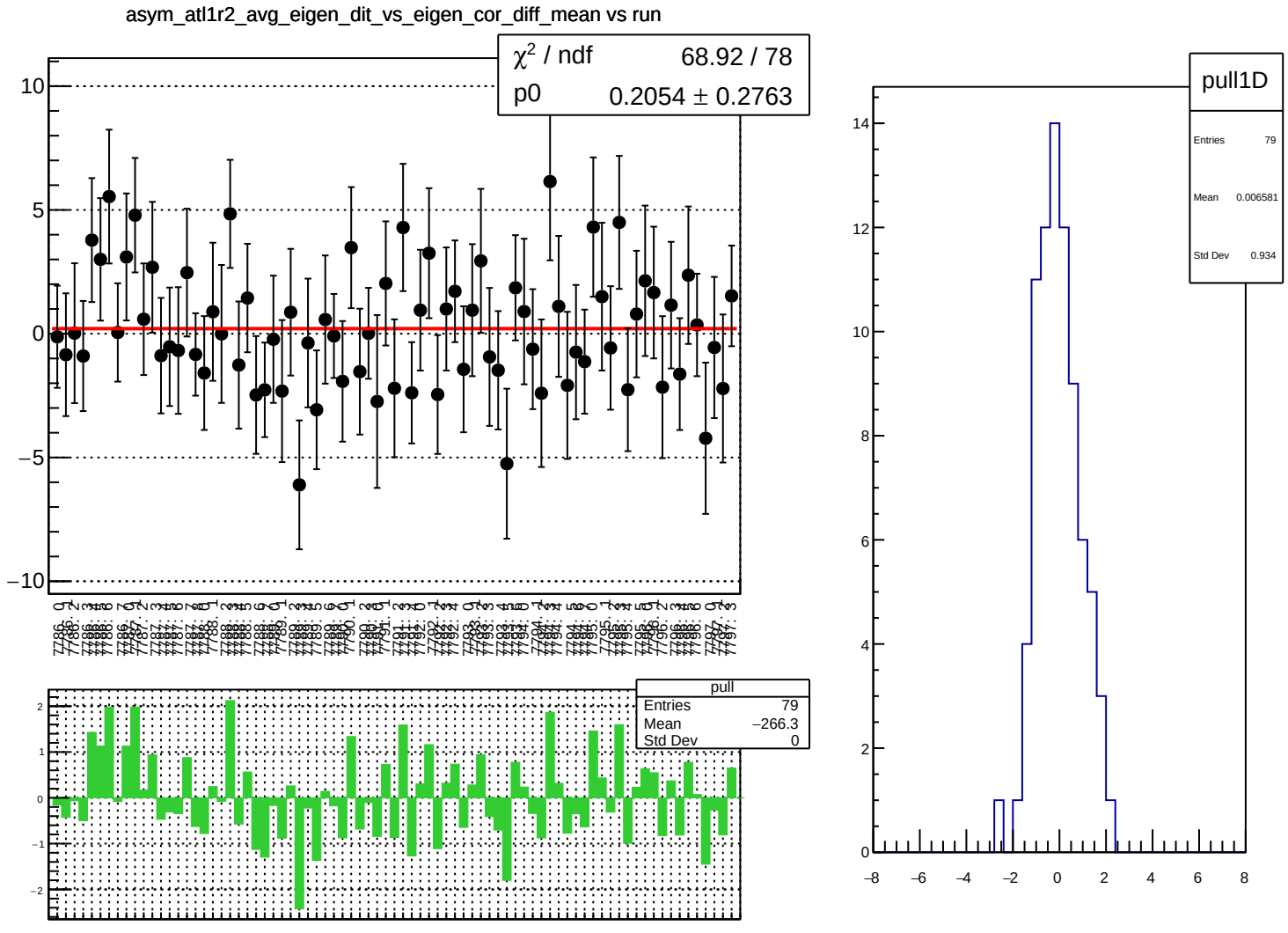

pull1D
Entries 79
Mean 0.004389
Std Dev 0.9544

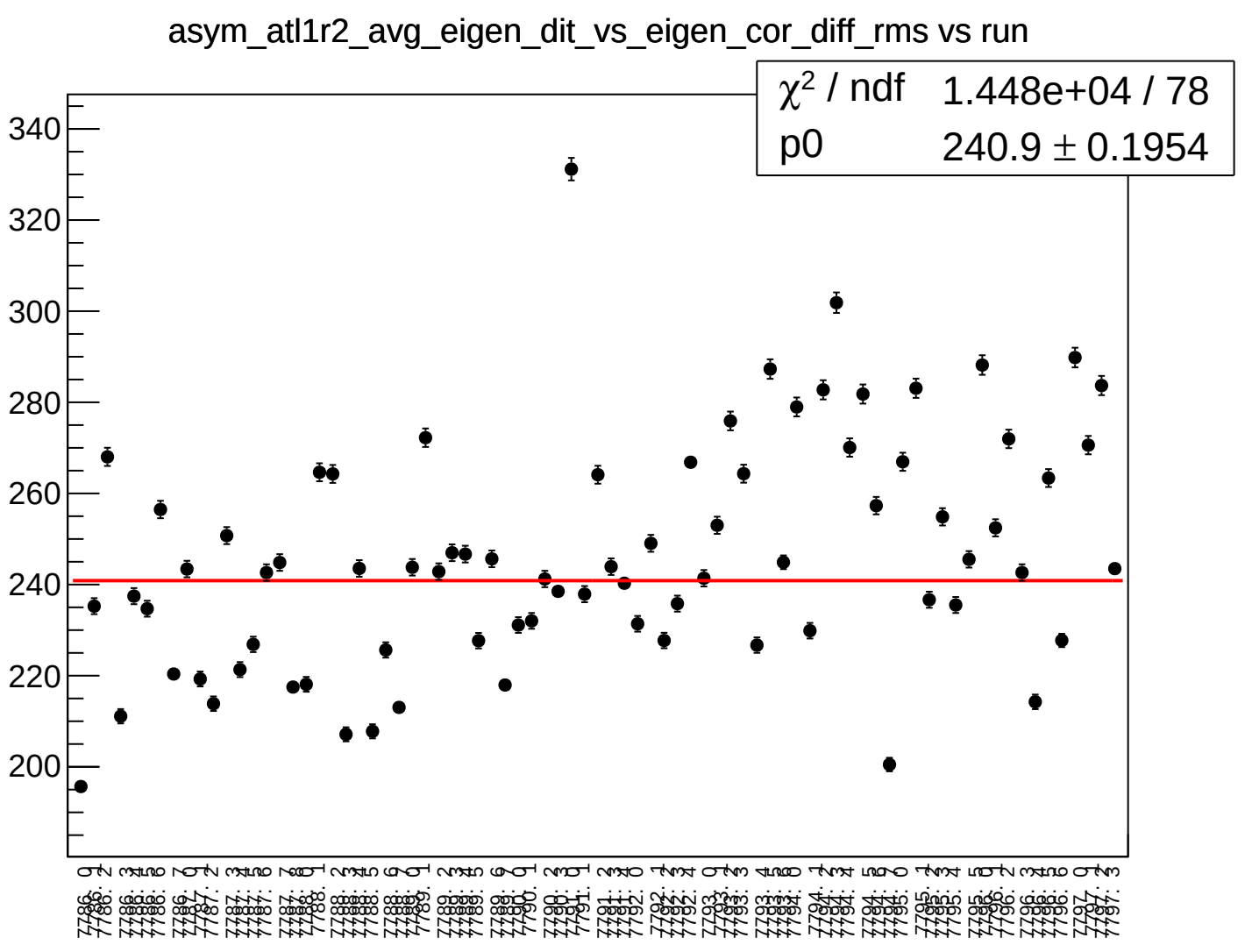

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3336 / 78
p0 0.008341 ± 6.742e−06
0.0095
0.009
0.0085
0.008
0.0075

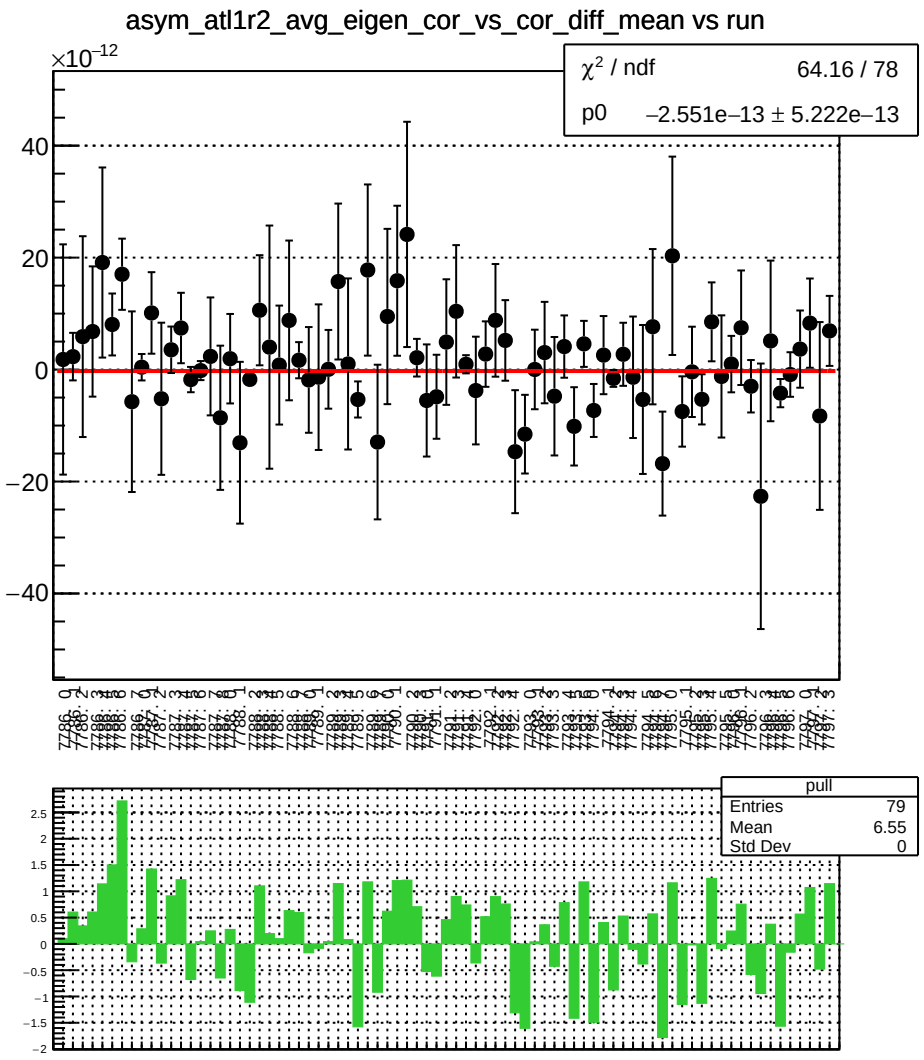

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.92 / 78
p0 0.2054 ± 0.2763
pull
Entries 79
Mean −266.3
Std Dev 0

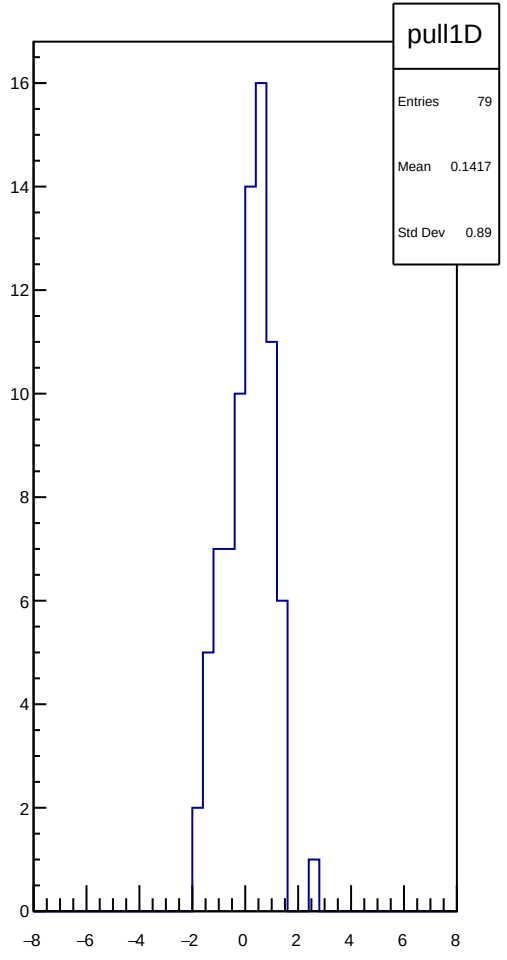

pull1D
Entries 79
Mean 0.006581
Std Dev 0.934

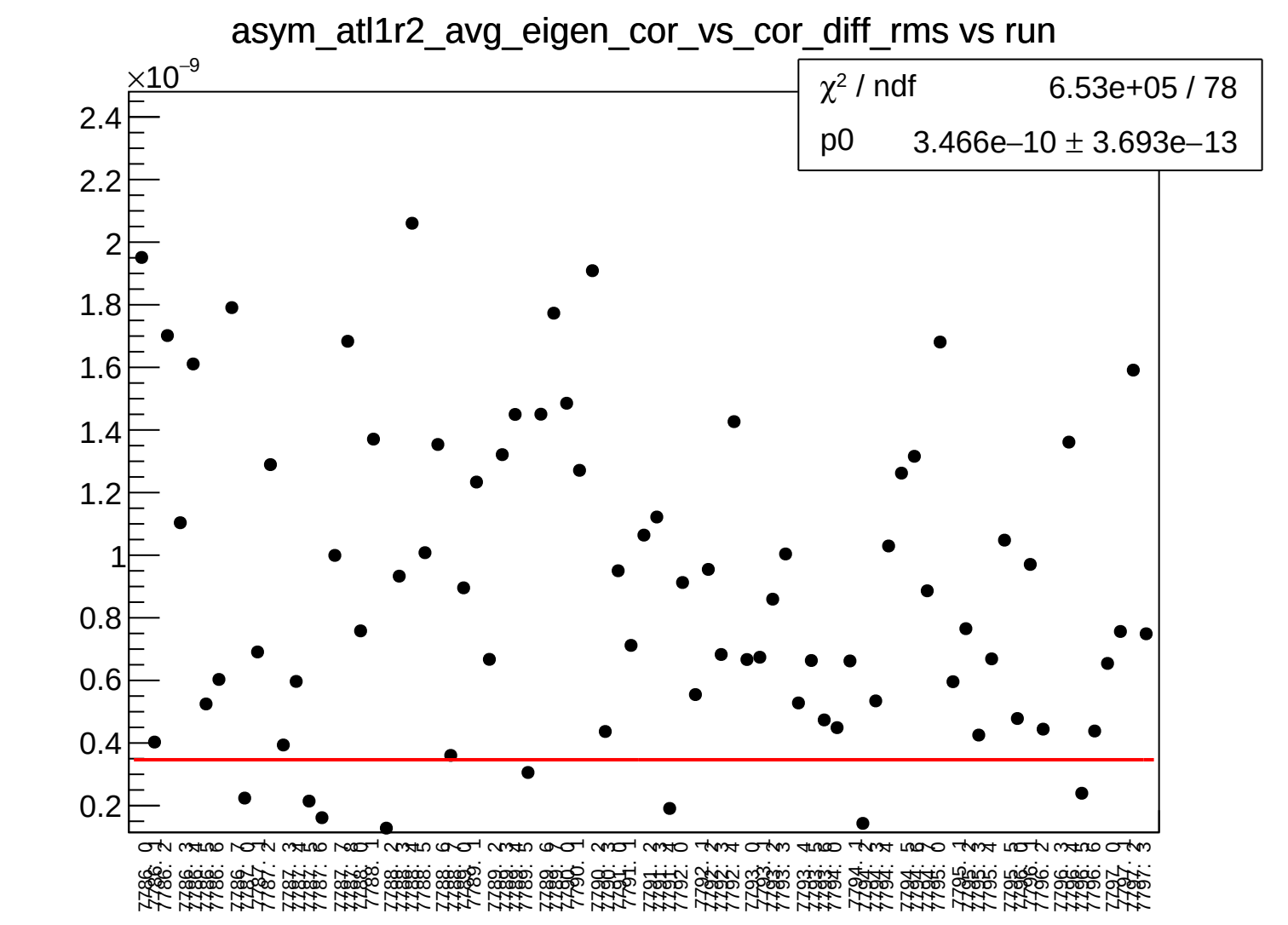

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.448e+04 / 78
p0 240.9 ± 0.1954
340
320
300
280
260
240
220
200

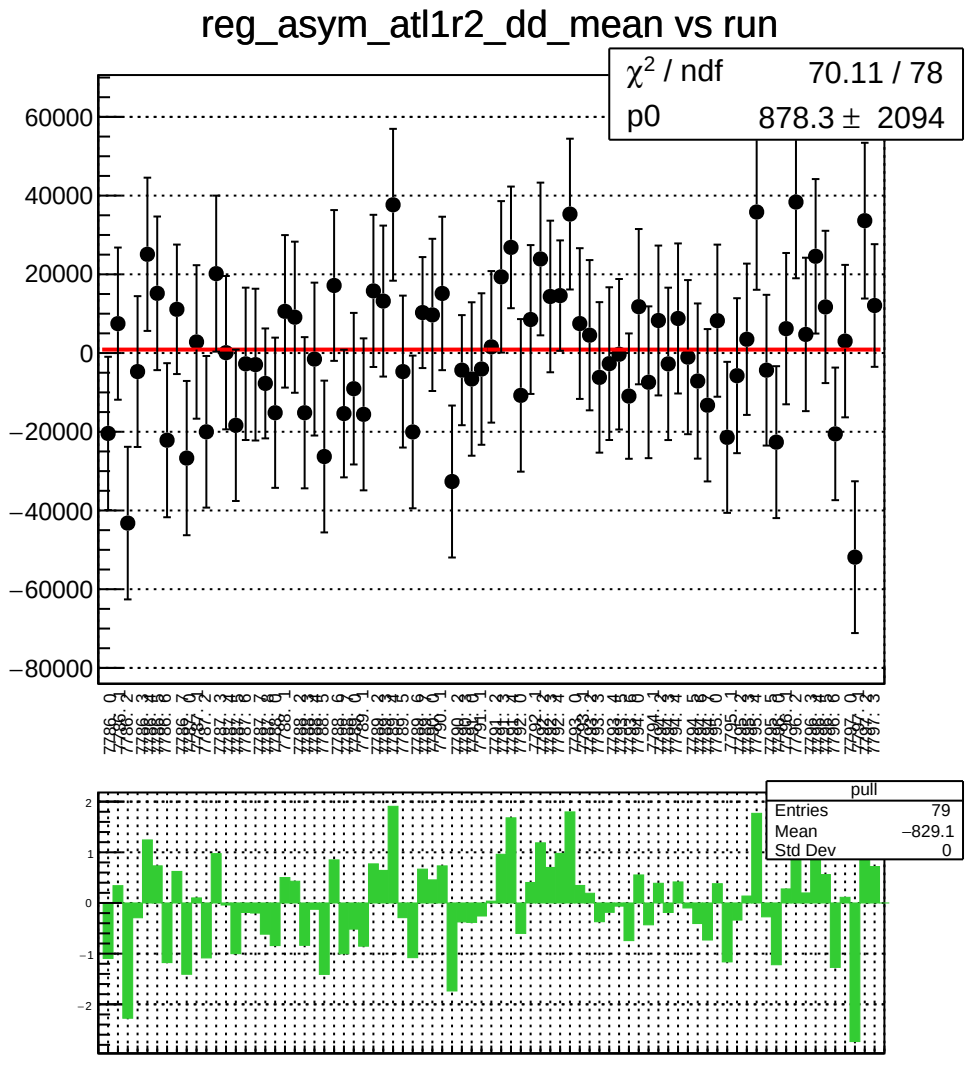

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.92 / 78
p0 0.2054 ± 0.2763
pull
Entries 79
Mean −266.3
Std Dev 0
pull1D
Entries 79
Mean 0.006581
Std Dev 0.934

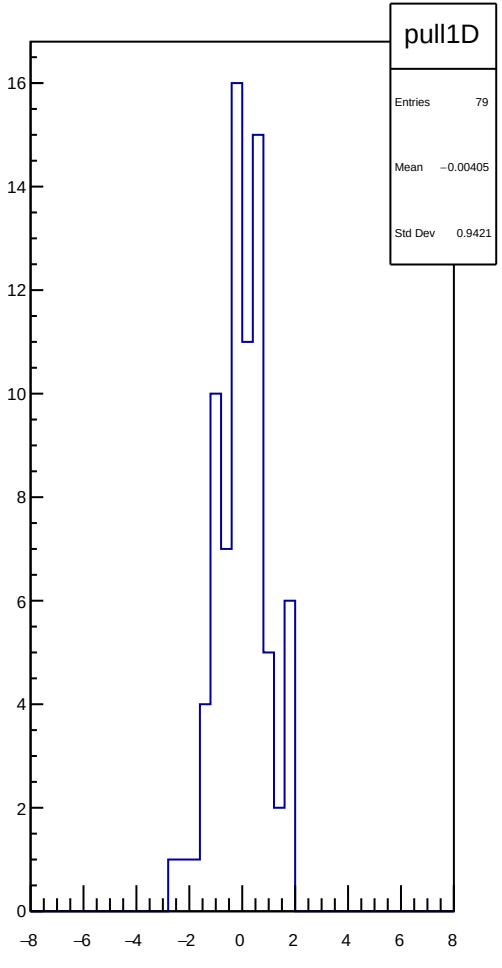

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.448e+04 / 78
p0 240.9 ± 0.1954
340
320
300
280
260
240
220
200

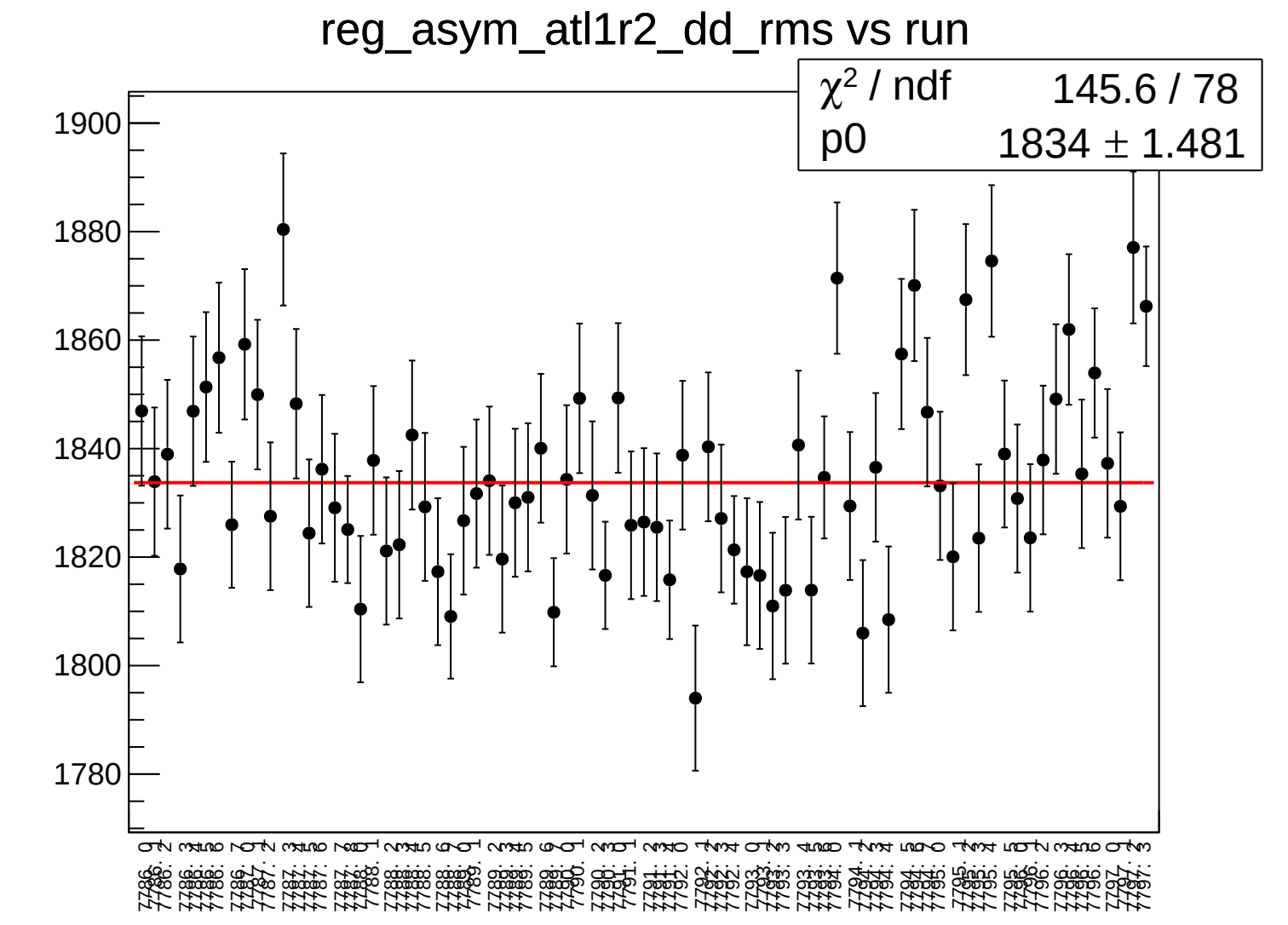

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.16 / 78
p0 −2.551e−13 ± 5.222e−13
40
20
0
−20
−40
pull
Entries 79
Mean 6.55
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

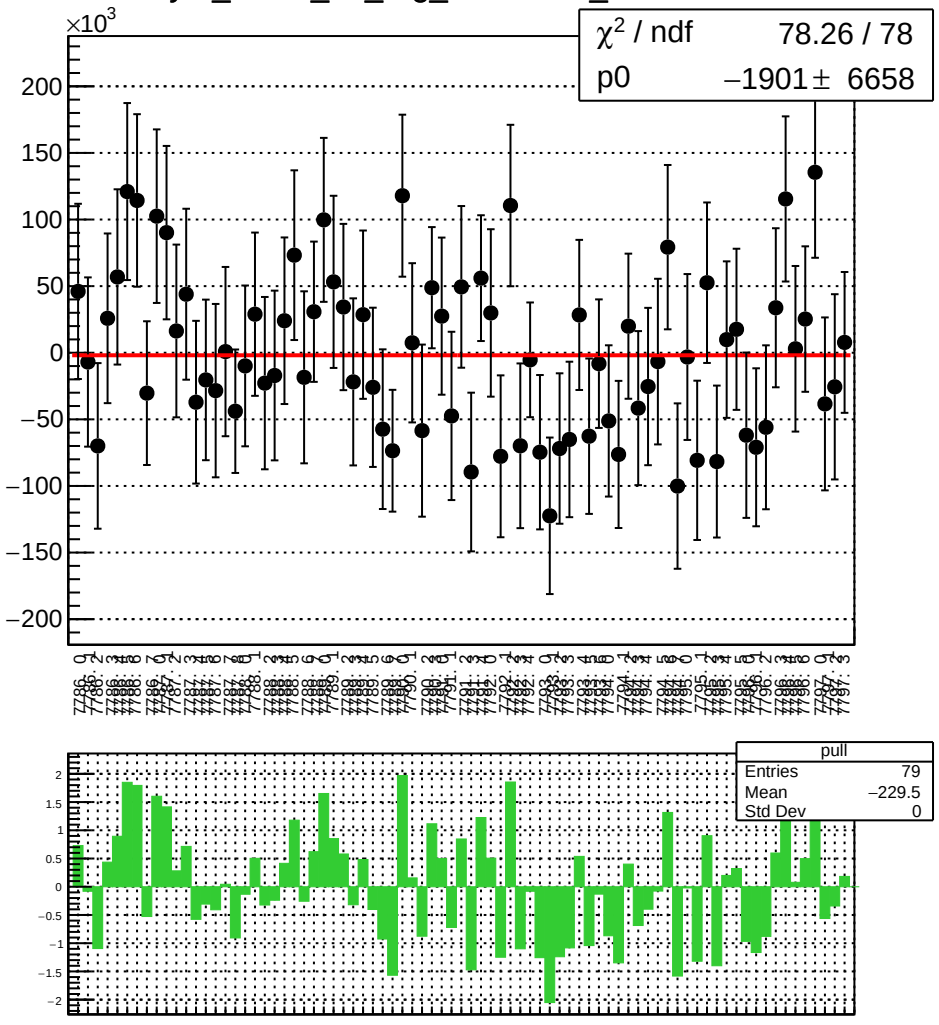

pull1D
Entries 79
Mean 0.1417
Std Dev 0.89
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

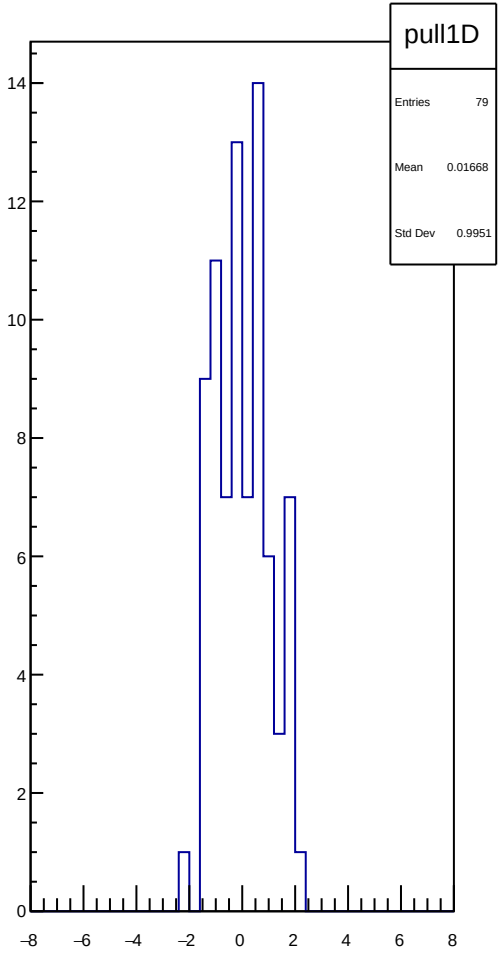

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.53e+05 / 78
p0 3.466e−10 ± 3.693e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

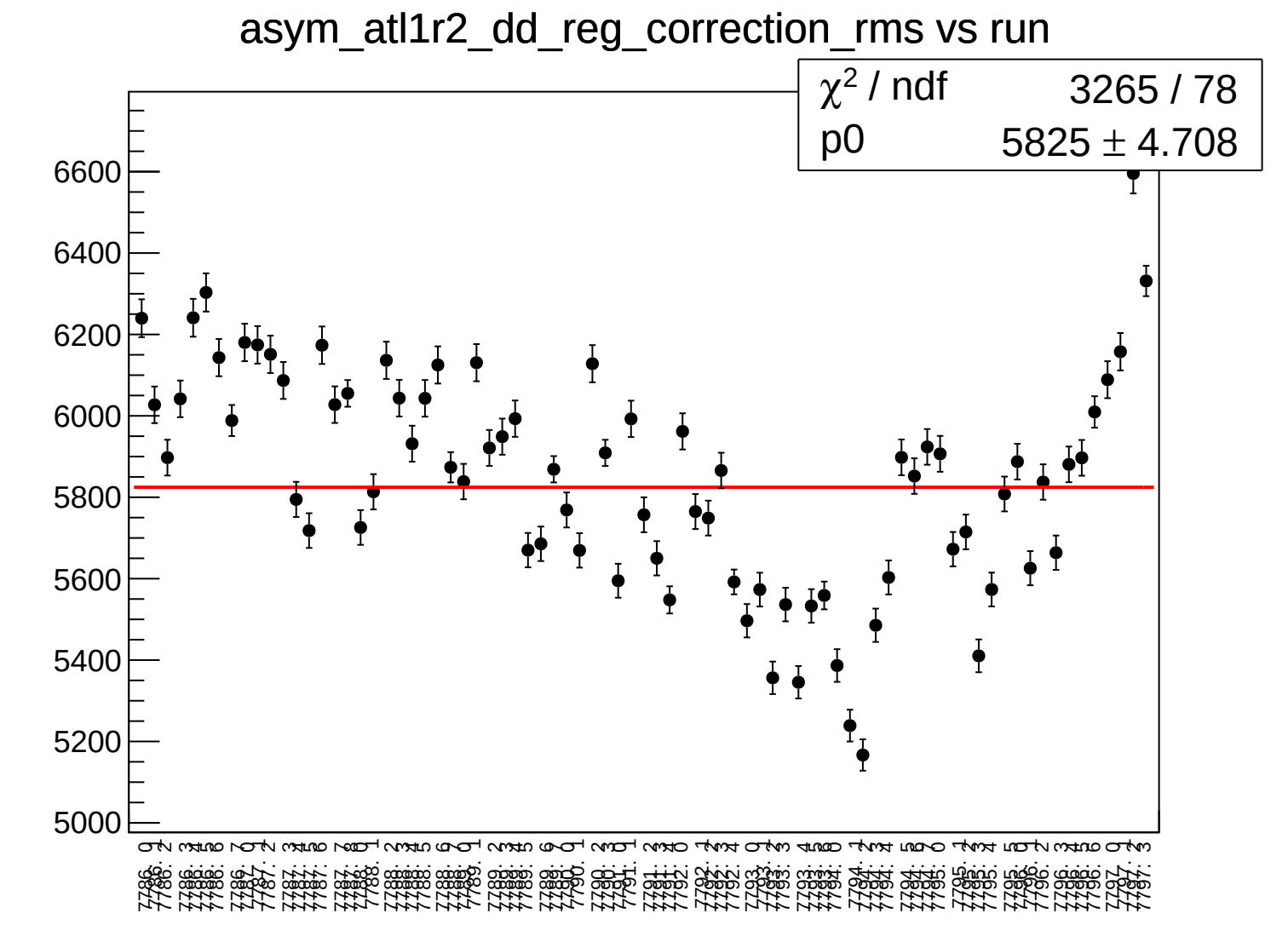

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 70.11 / 78
p0 878.3 ± 2094
pull
Entries 79
Mean −829.1
Std Dev 0

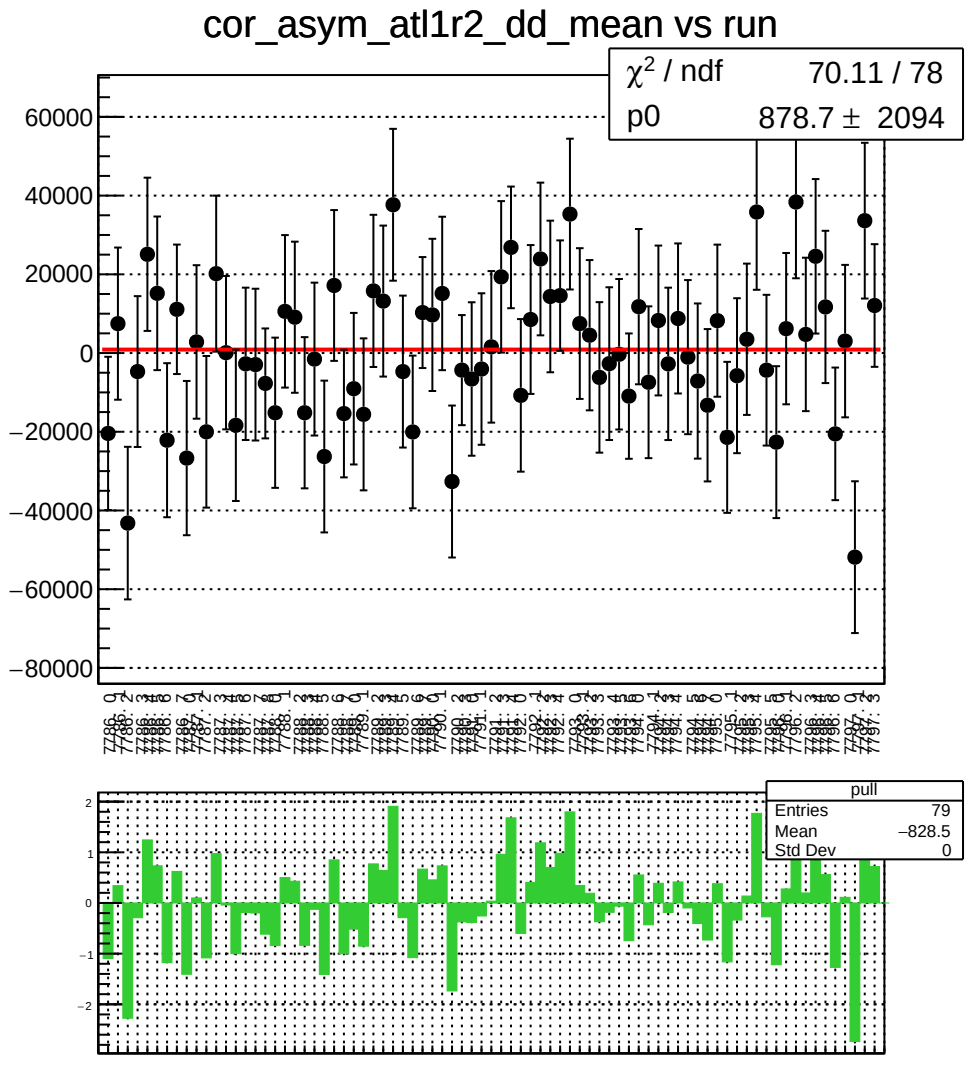

pull1D
Entries 79
Mean −0.00405
Std Dev 0.9421

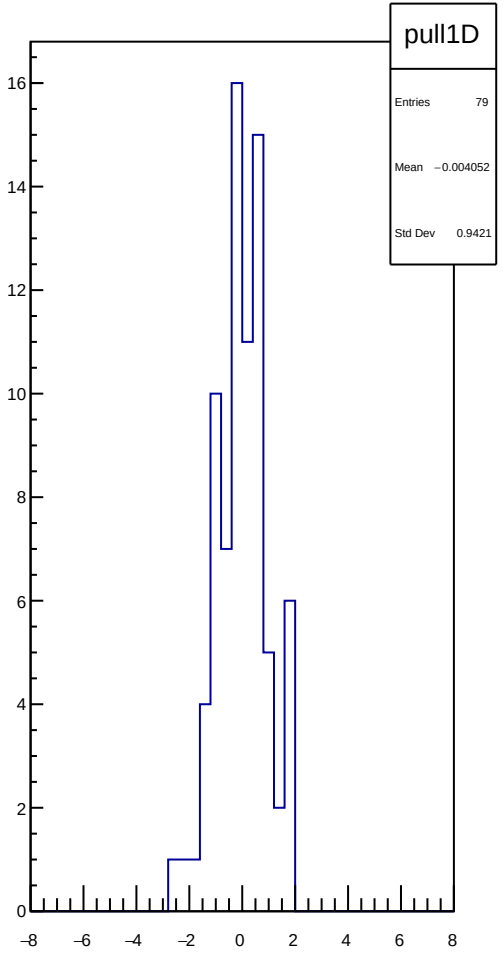

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 145.6 / 78
p0 1834 ± 1.481
1900
1880
1860
1840
1820
1800
1780

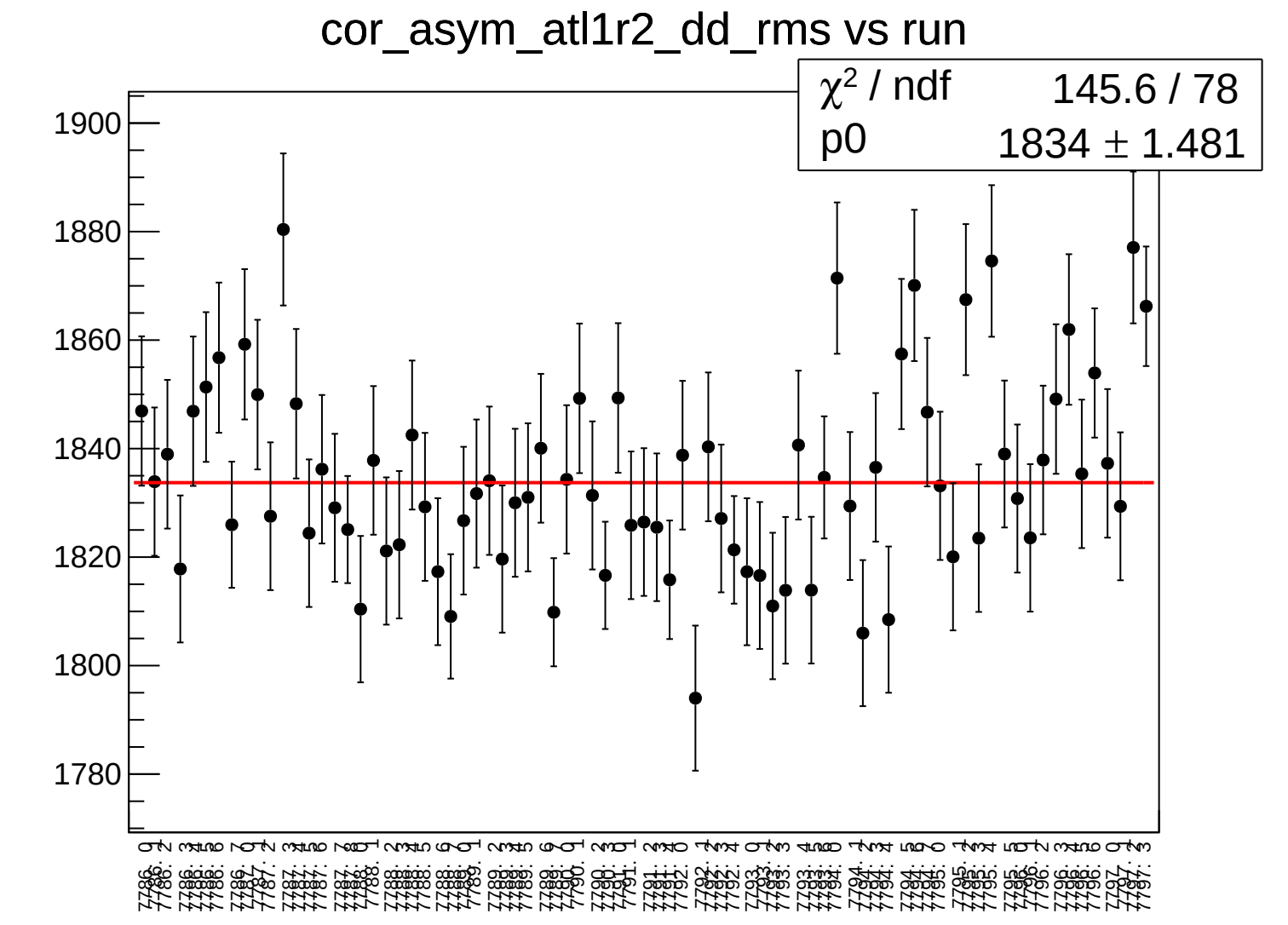

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.26 / 78
p0 −1901 ± 6658
pull
Entries 79
Mean −229.5
Std Dev 0

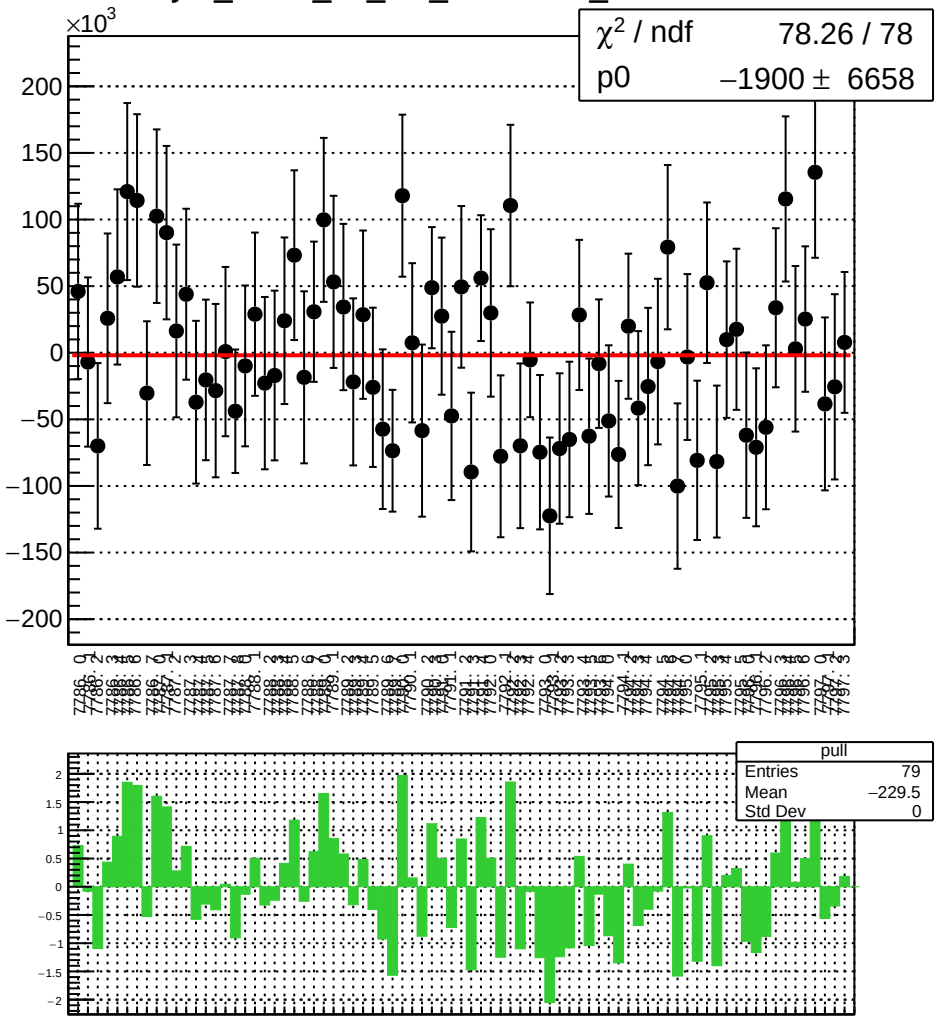

pull1D
Entries 79
Mean 0.01668
Std Dev 0.9951

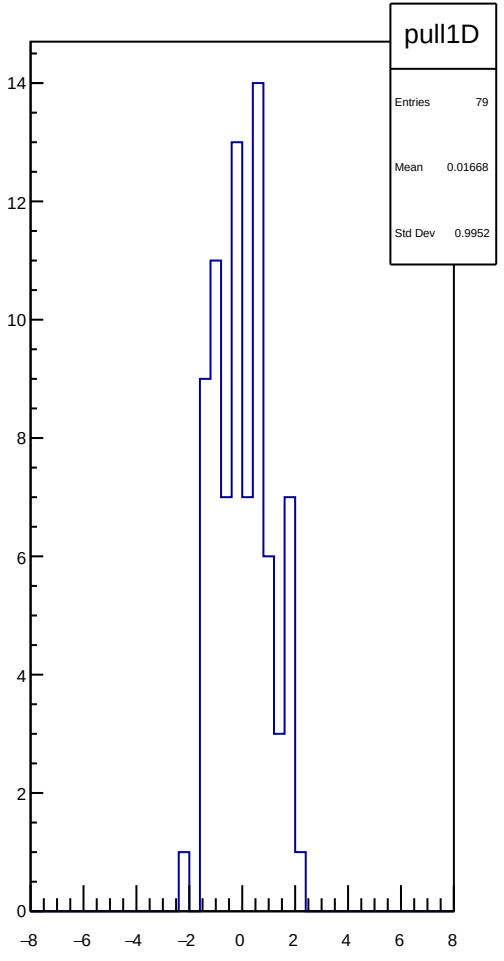

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3265 / 78
p0 5825 ± 4.708
6600
6400
6200
6000
5800
5600
5400
5200
5000

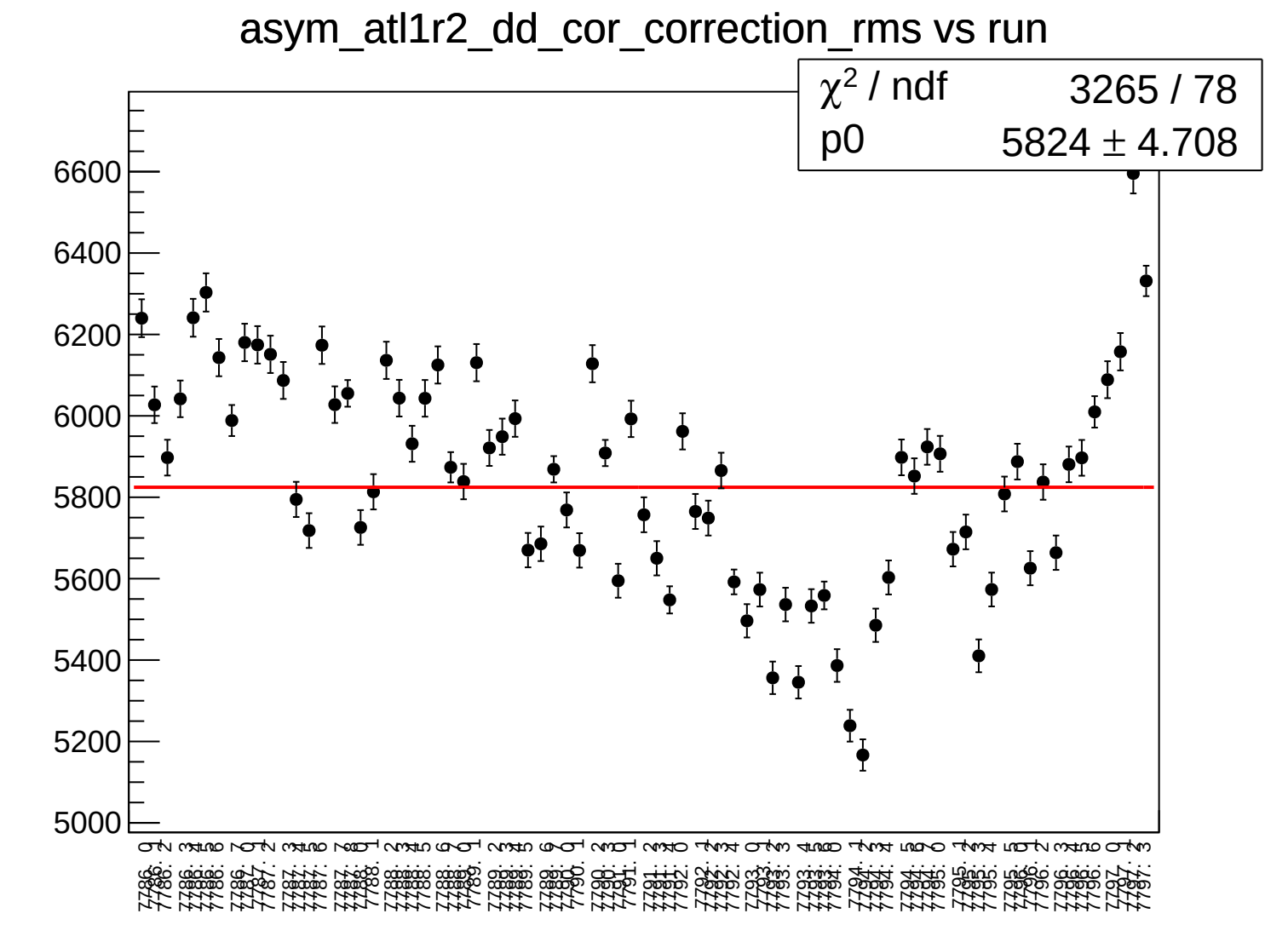

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 70.11 / 78
p0 878.7 ± 2094
pull
Entries 79
Mean −828.5
Std Dev 0

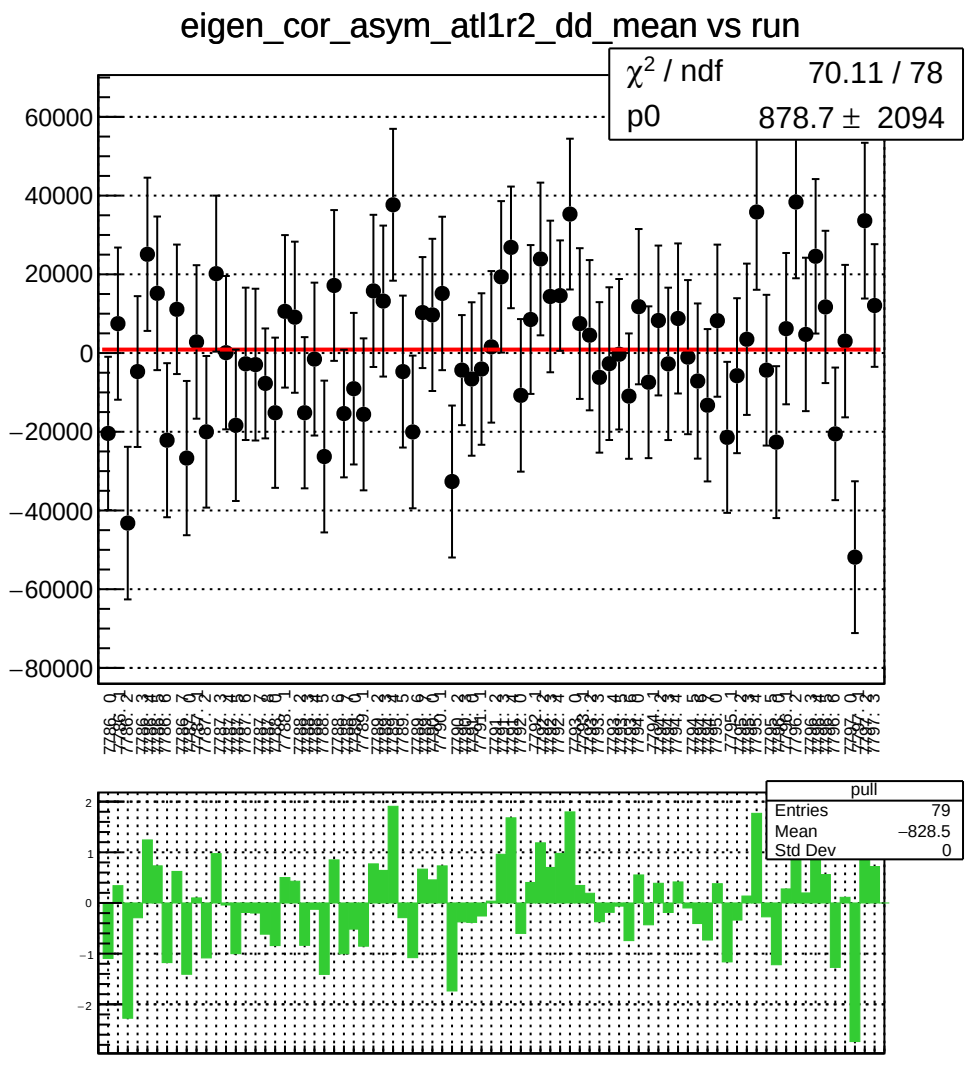

pull1D
Entries 79
Mean −0.004052
Std Dev 0.9421

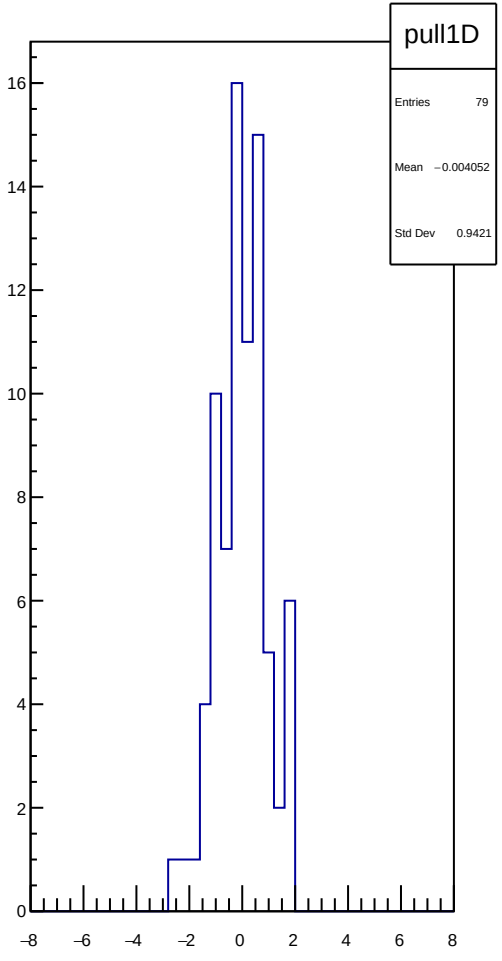

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 145.6 / 78
p0 1834 ± 1.481
1900
1880
1860
1840
1820
1800
1780

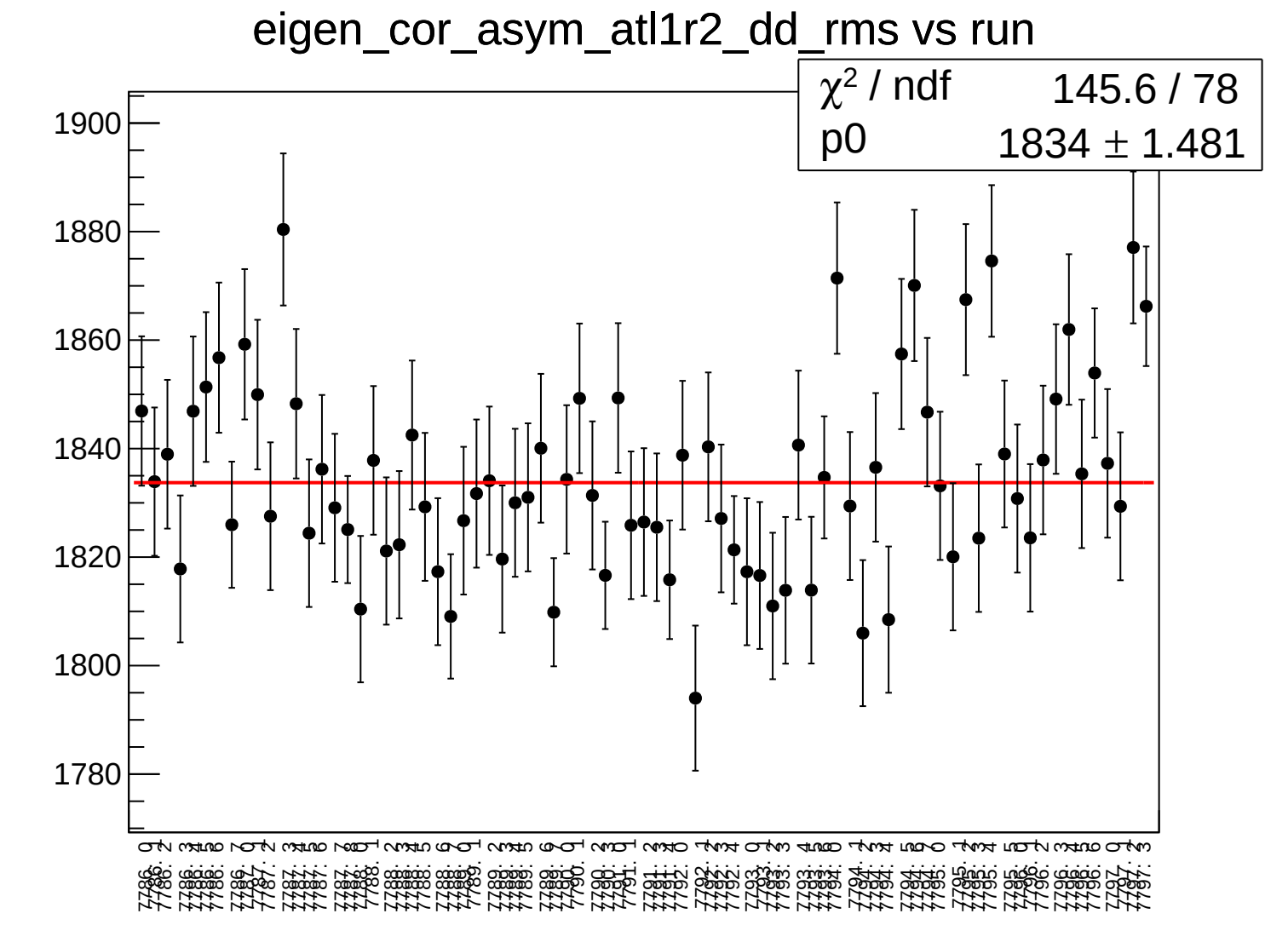

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.26 / 78
p0 −1900 ± 6658
pull
Entries 79
Mean −229.5
Std Dev 0

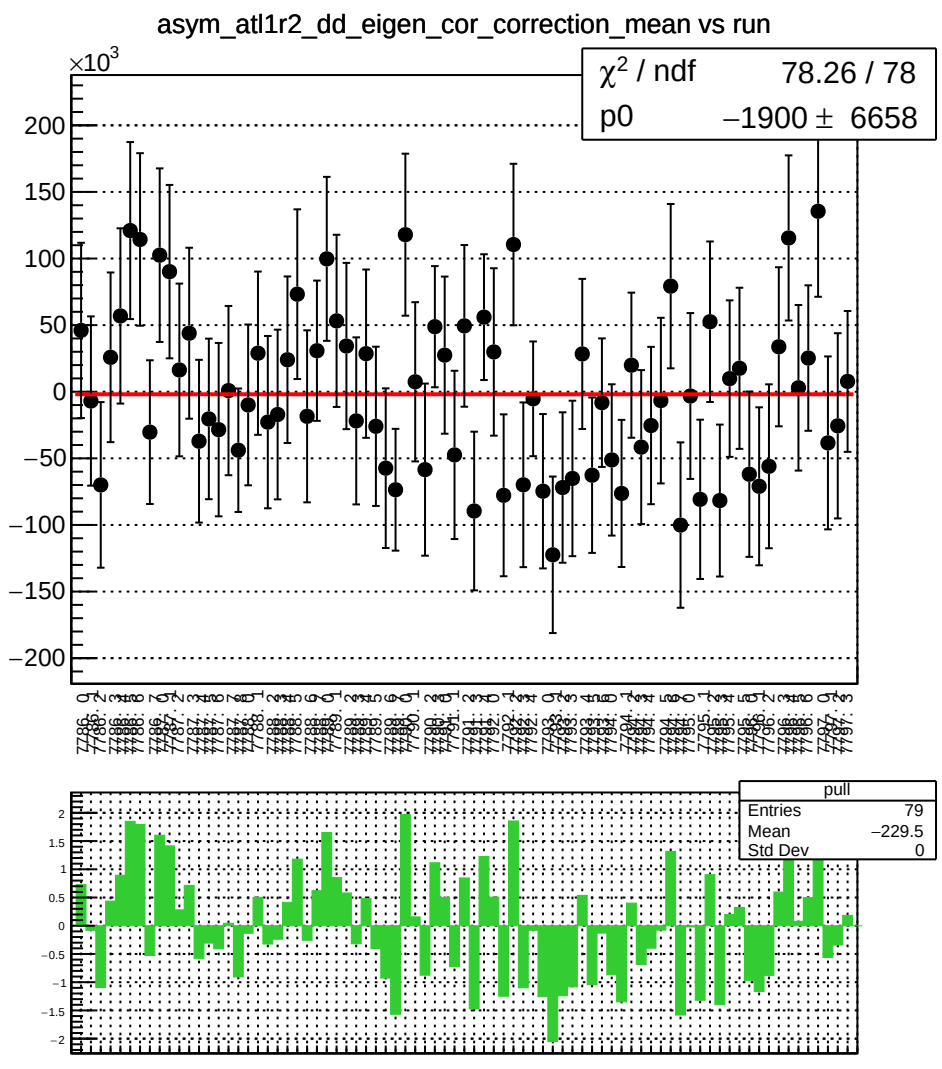

pull1D
Entries 79
Mean 0.01668
Std Dev 0.9952

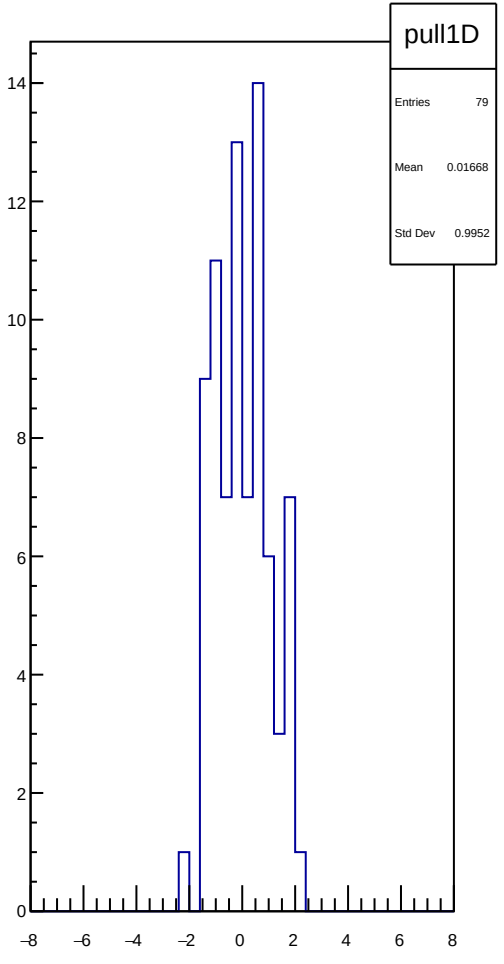

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3265 / 78
p0 5824 ± 4.708
6600
6400
6200
6000
5800
5600
5400
5200
5000

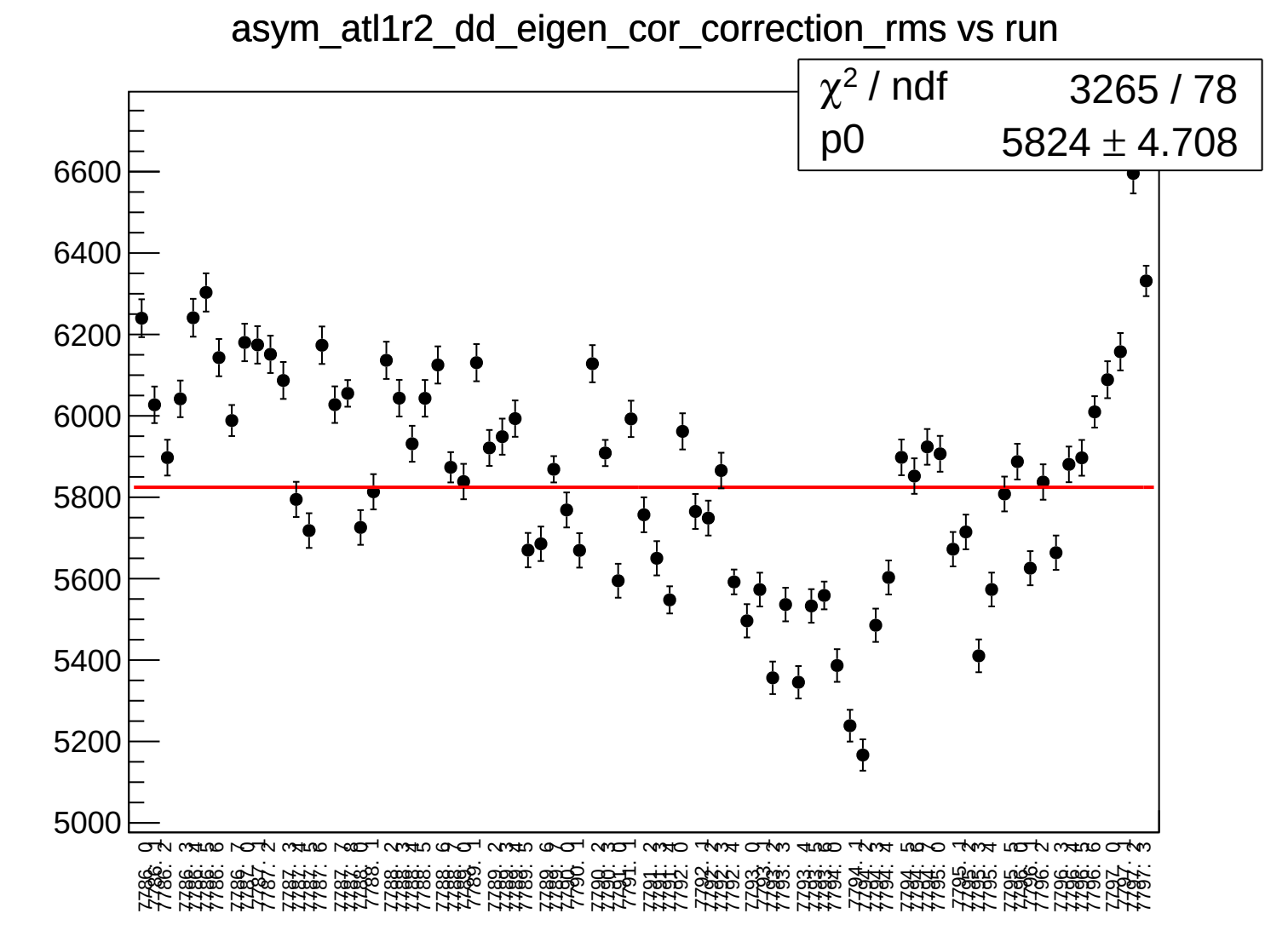

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 70.11 / 78
p0 878.7 ± 2094
pull
Entries 79
Mean −828.5
Std Dev 0

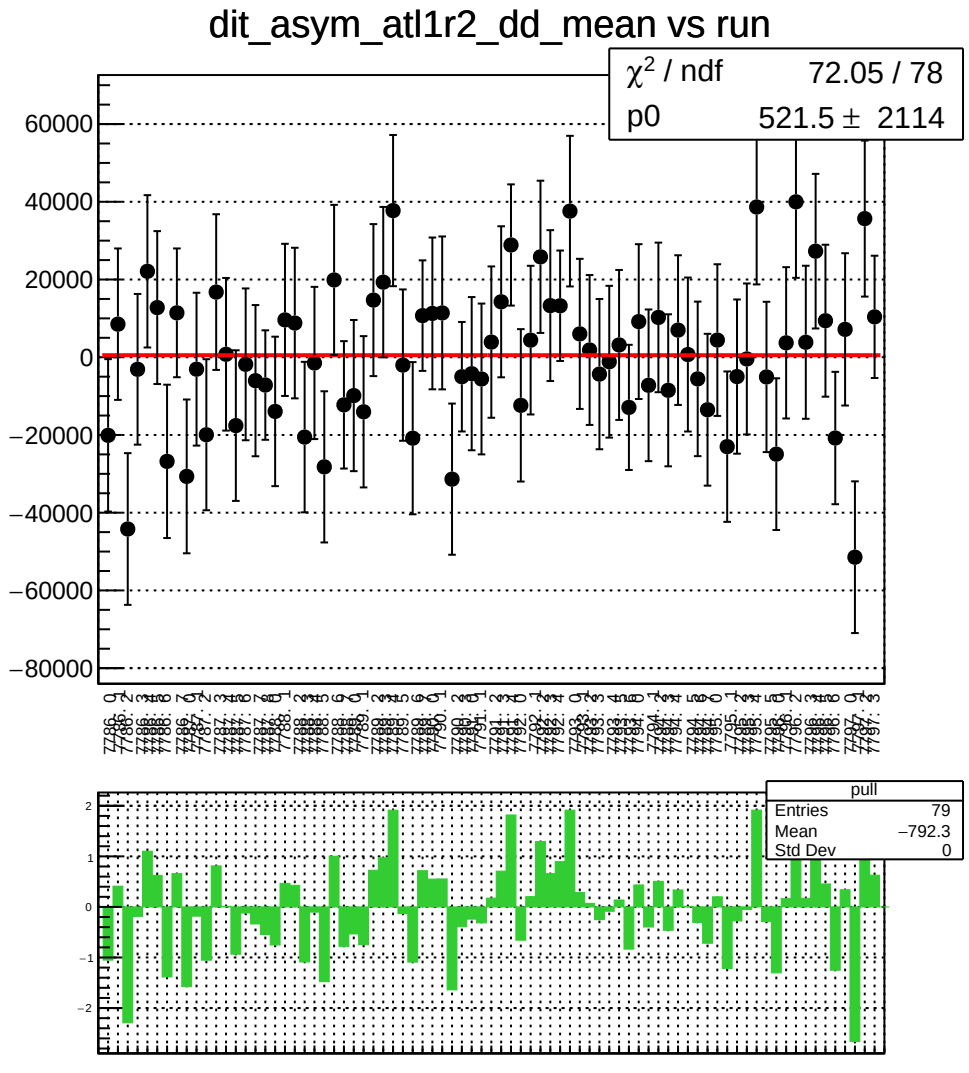

pull1D
Entries 79
Mean −0.004052
Std Dev 0.9421

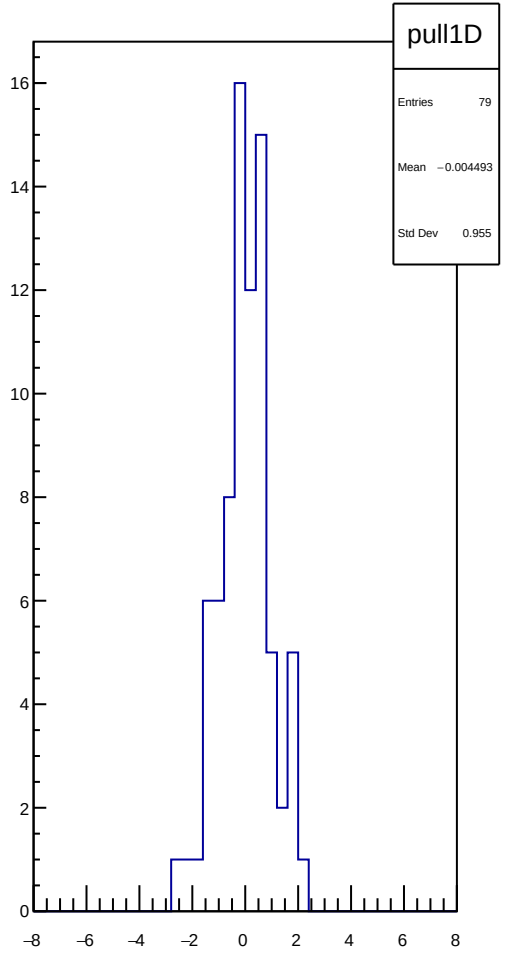

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 145.6 / 78
p0 1834 ± 1.481
1900
1880
1860
1840
1820
1800
1780

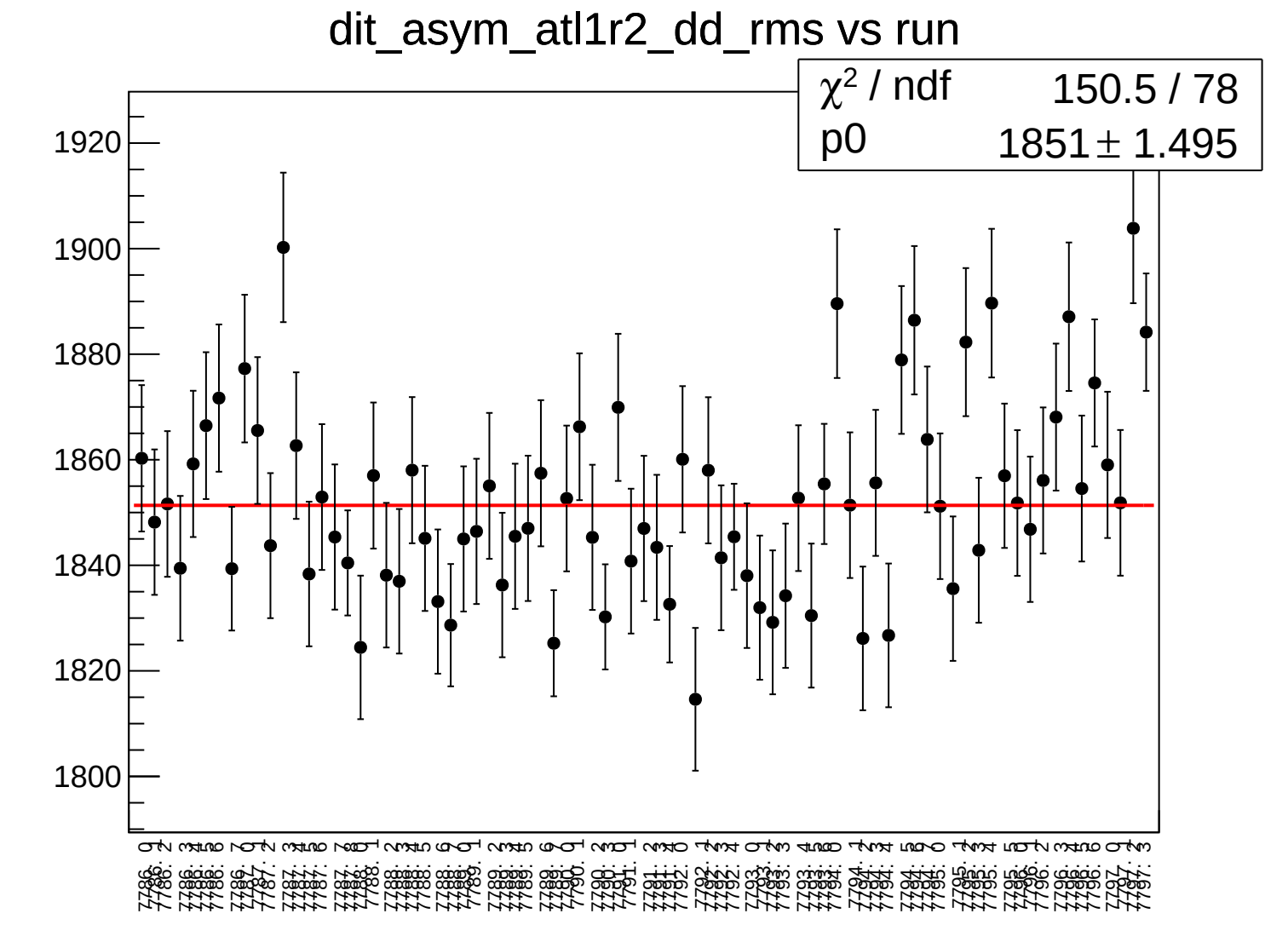

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.26 / 78
p0 −1900 ± 6658
pull
Entries 79
Mean −229.5
Std Dev 0

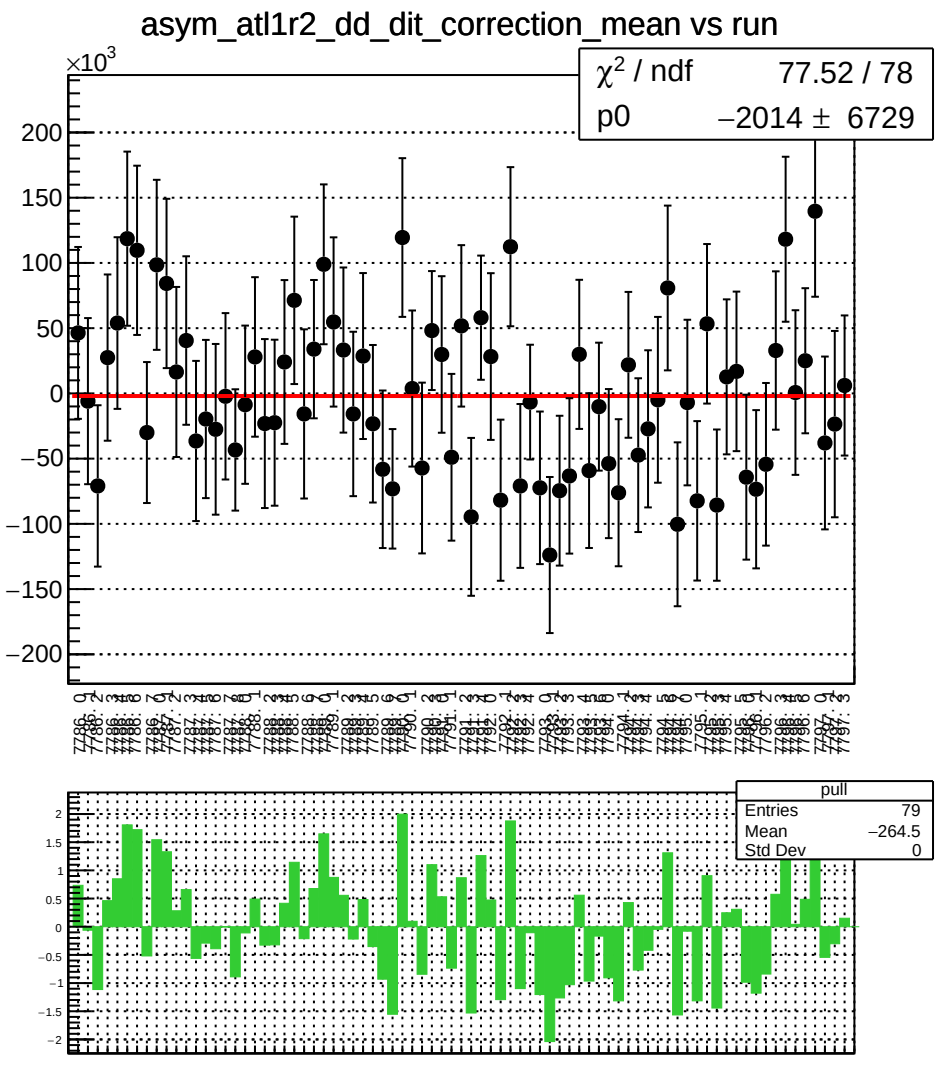

pull1D
Entries 79
Mean 0.01668
Std Dev 0.9952

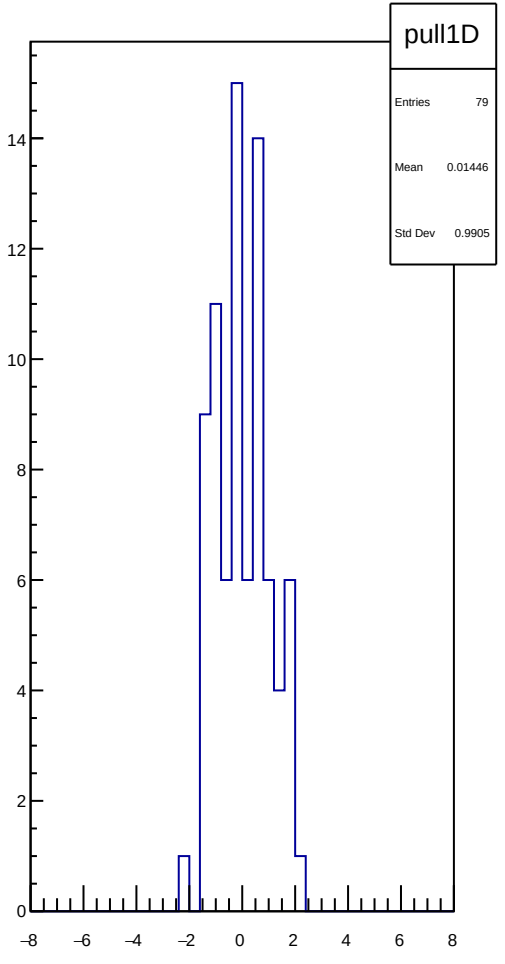

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3265 / 78
p0 5824 ± 4.708
6600
6400
6200
6000
5800
5600
5400
5200
5000

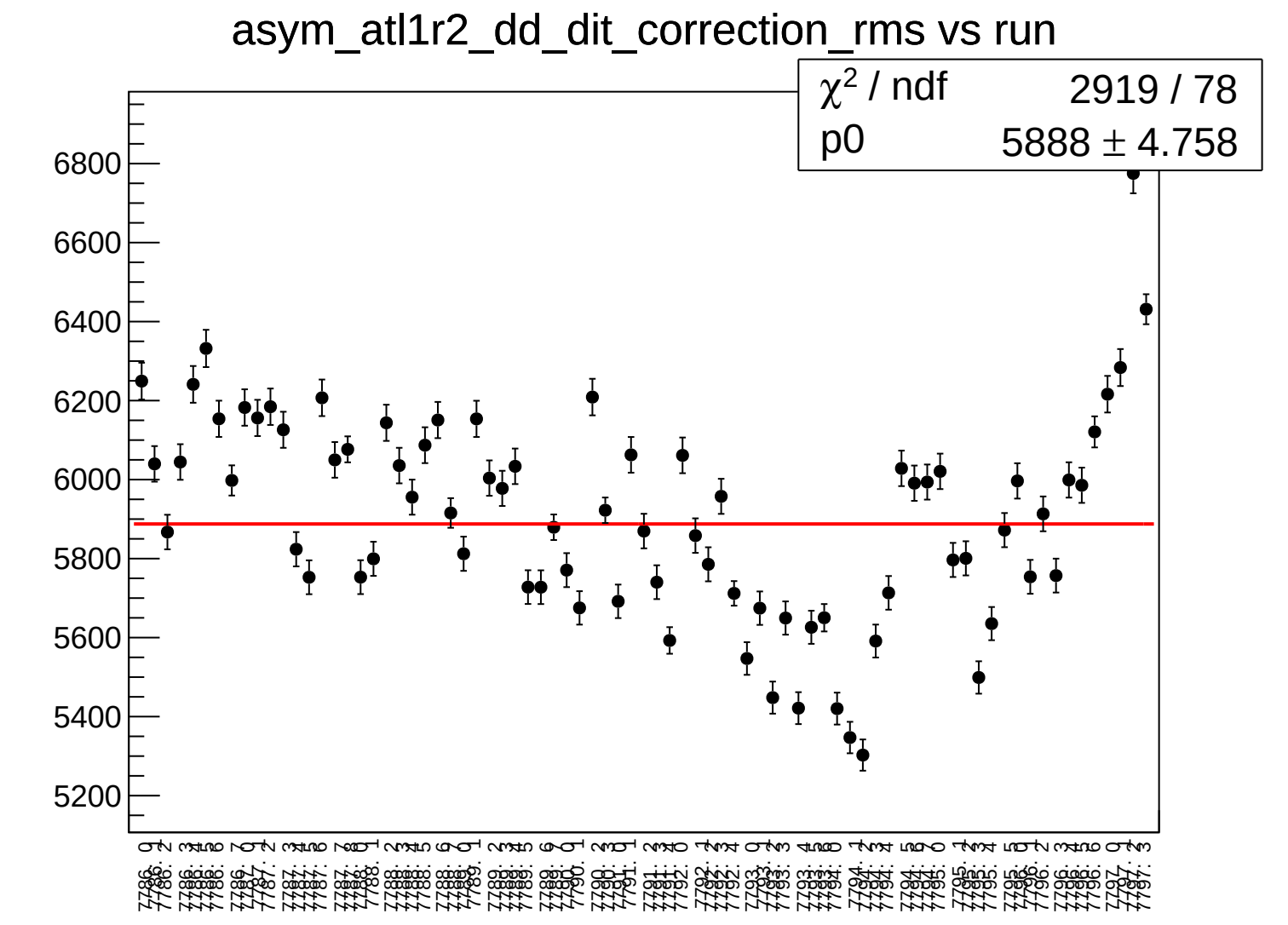

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 72.05 / 78
p0 521.5 ± 2114
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean −792.3
Std Dev 0
2
1
0
−1
−2

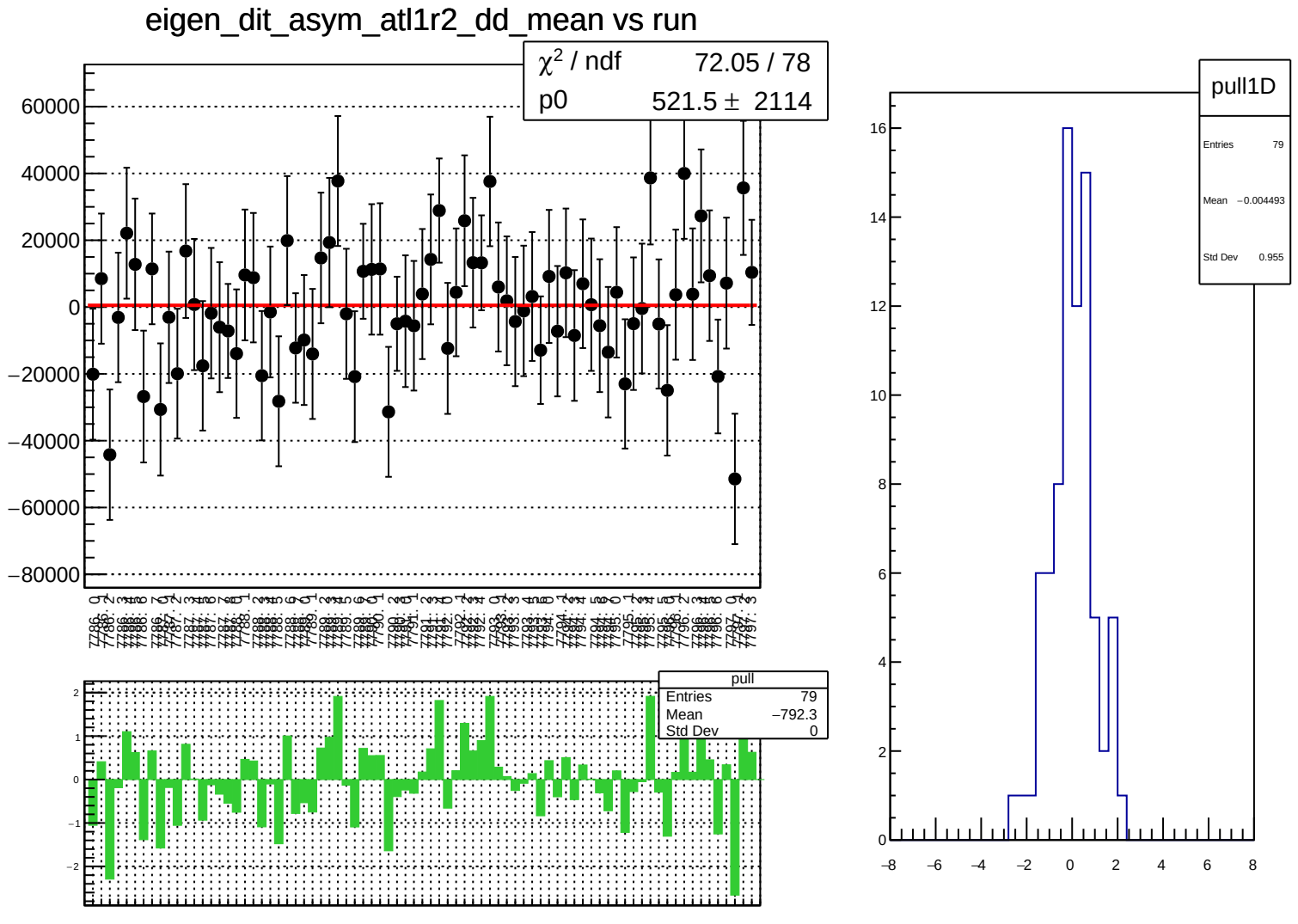

pull1D
Entries 79
Mean −0.004493
Std Dev 0.955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

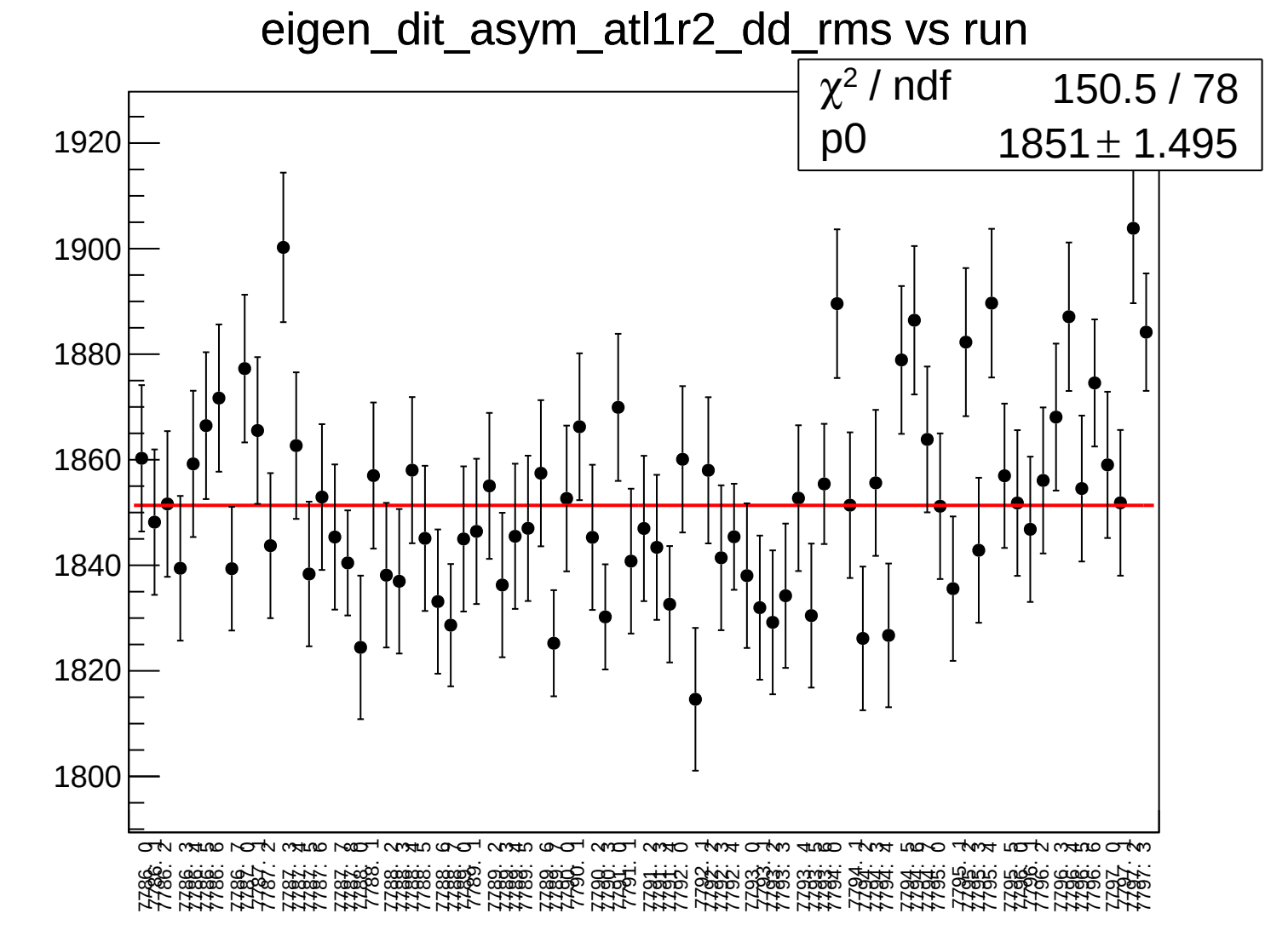

dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 150.5 / 78
p0 1851 ± 1.495
1920
1900
1880
1860
1840
1820
1800

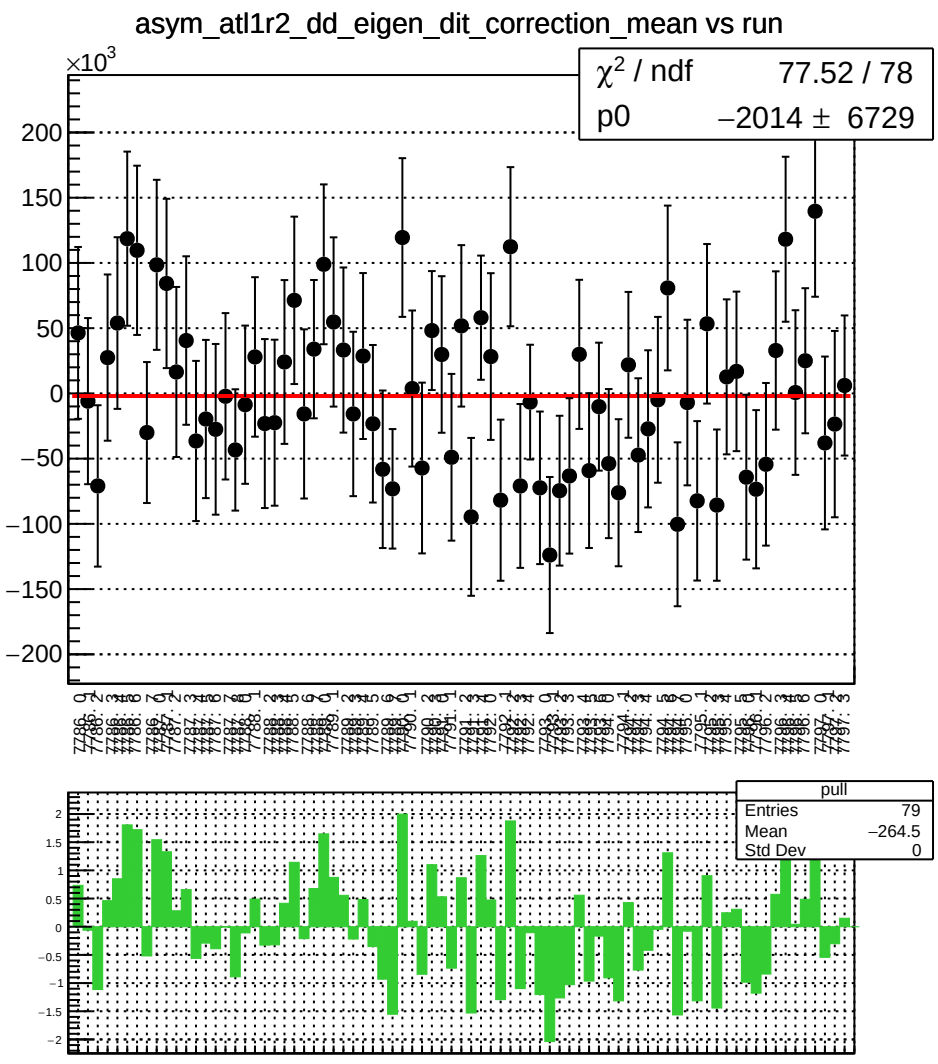

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.52 / 78
p0 −2014 ± 6729
pull
Entries 79
Mean −264.5
Std Dev 0

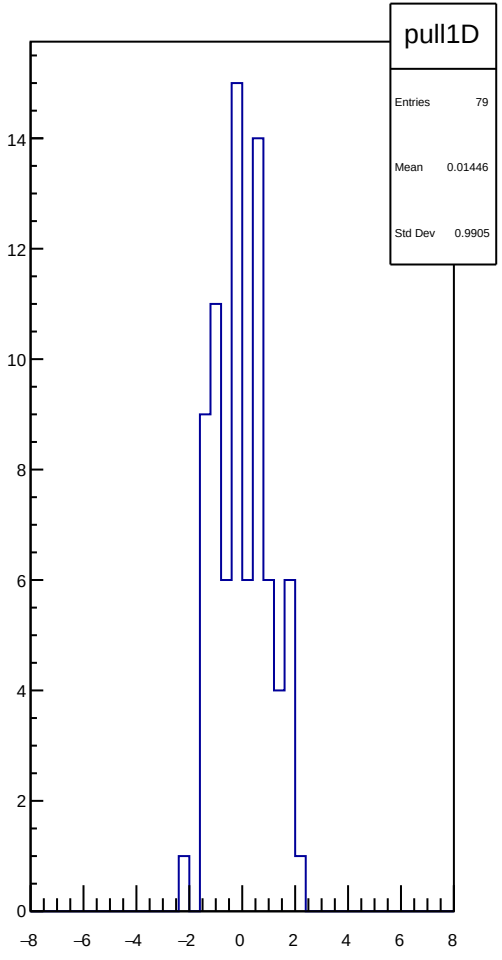

pull1D
Entries 79
Mean 0.01446
Std Dev 0.9905

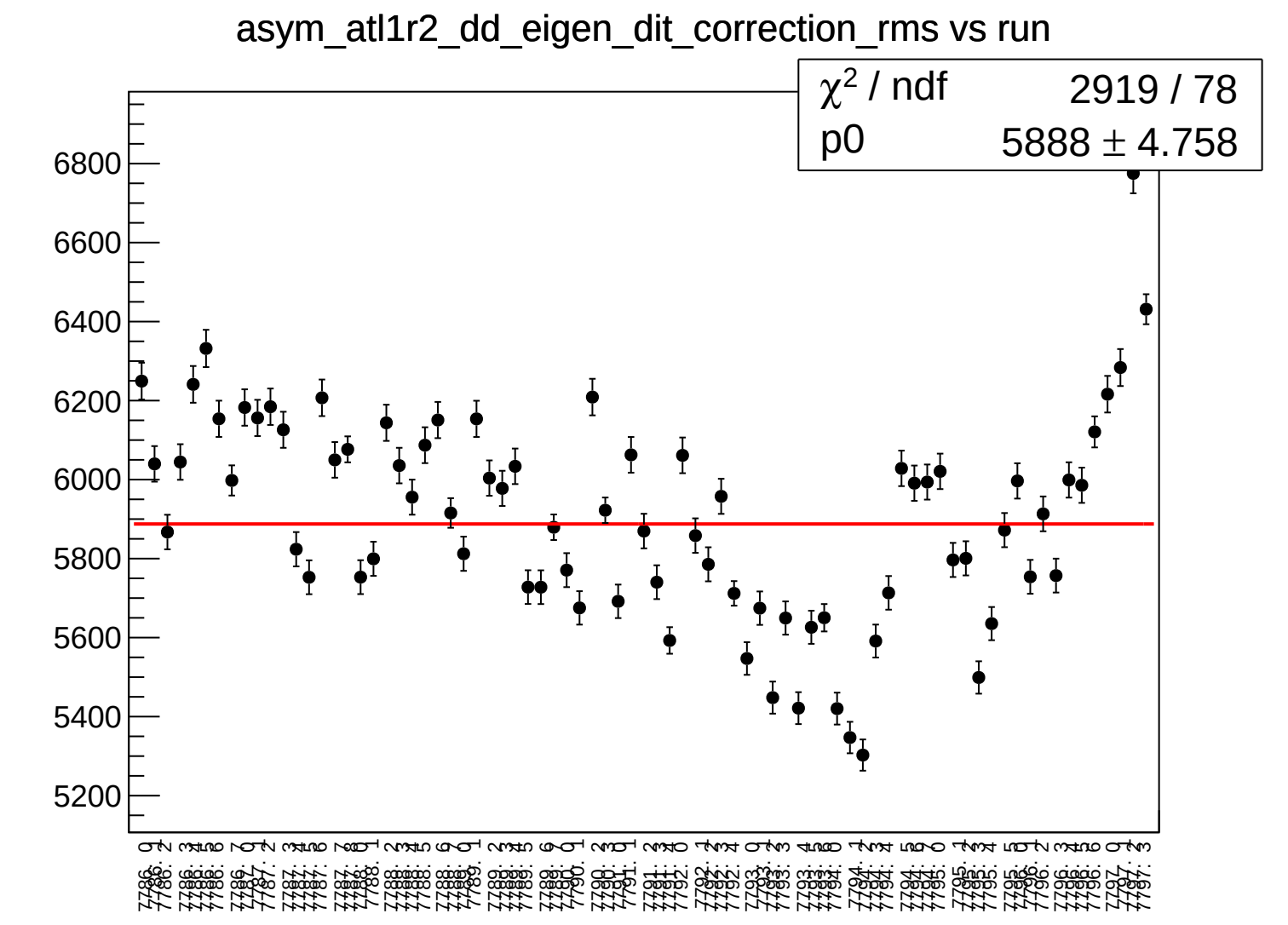

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 2919 / 78
p0 5888 ± 4.758
6800
6600
6400
6200
6000
5800
5600
5400
5200

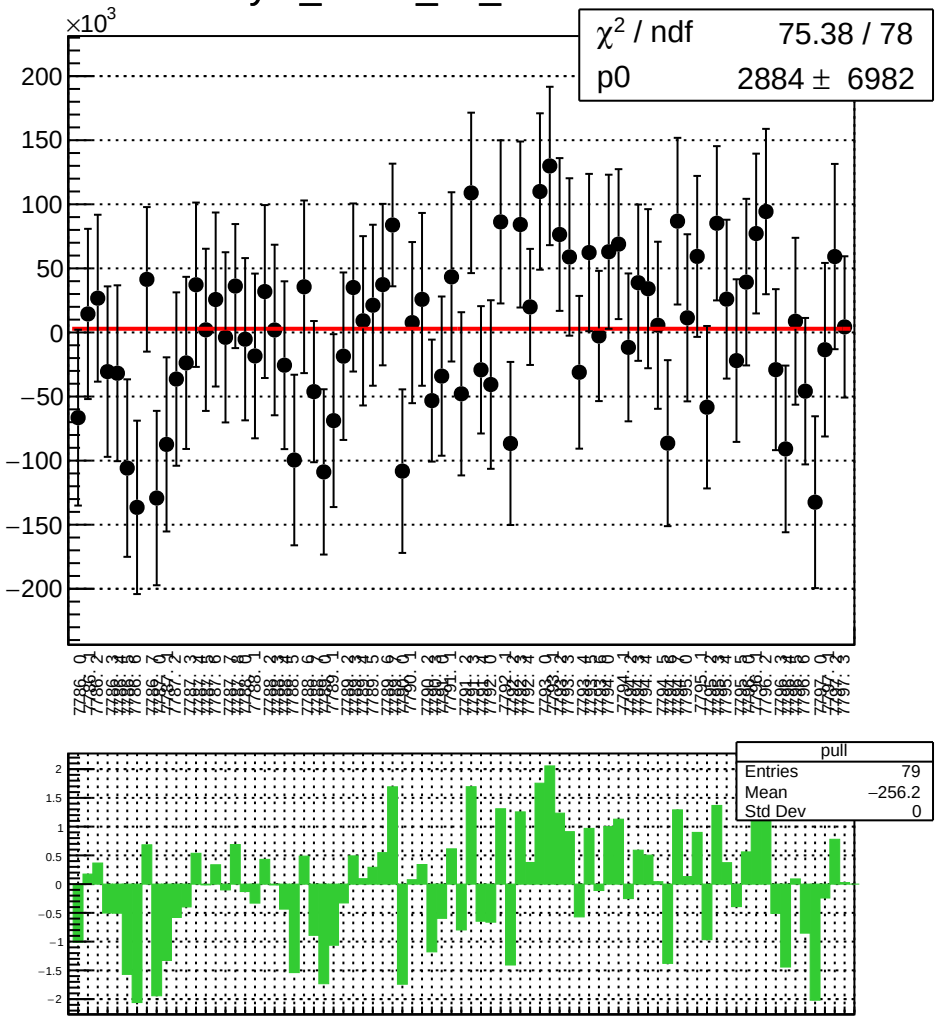

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 72.05 / 78
p0 521.5 ± 2114
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean −792.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 79
Mean −0.004493
Std Dev 0.955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

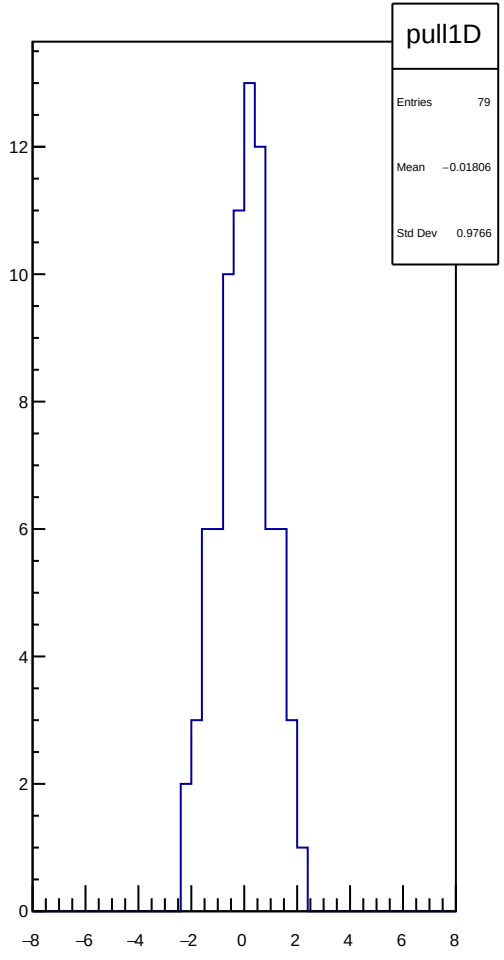

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 150.5 / 78
p0 1851 ± 1.495
1920
1900
1880
1860
1840
1820
1800

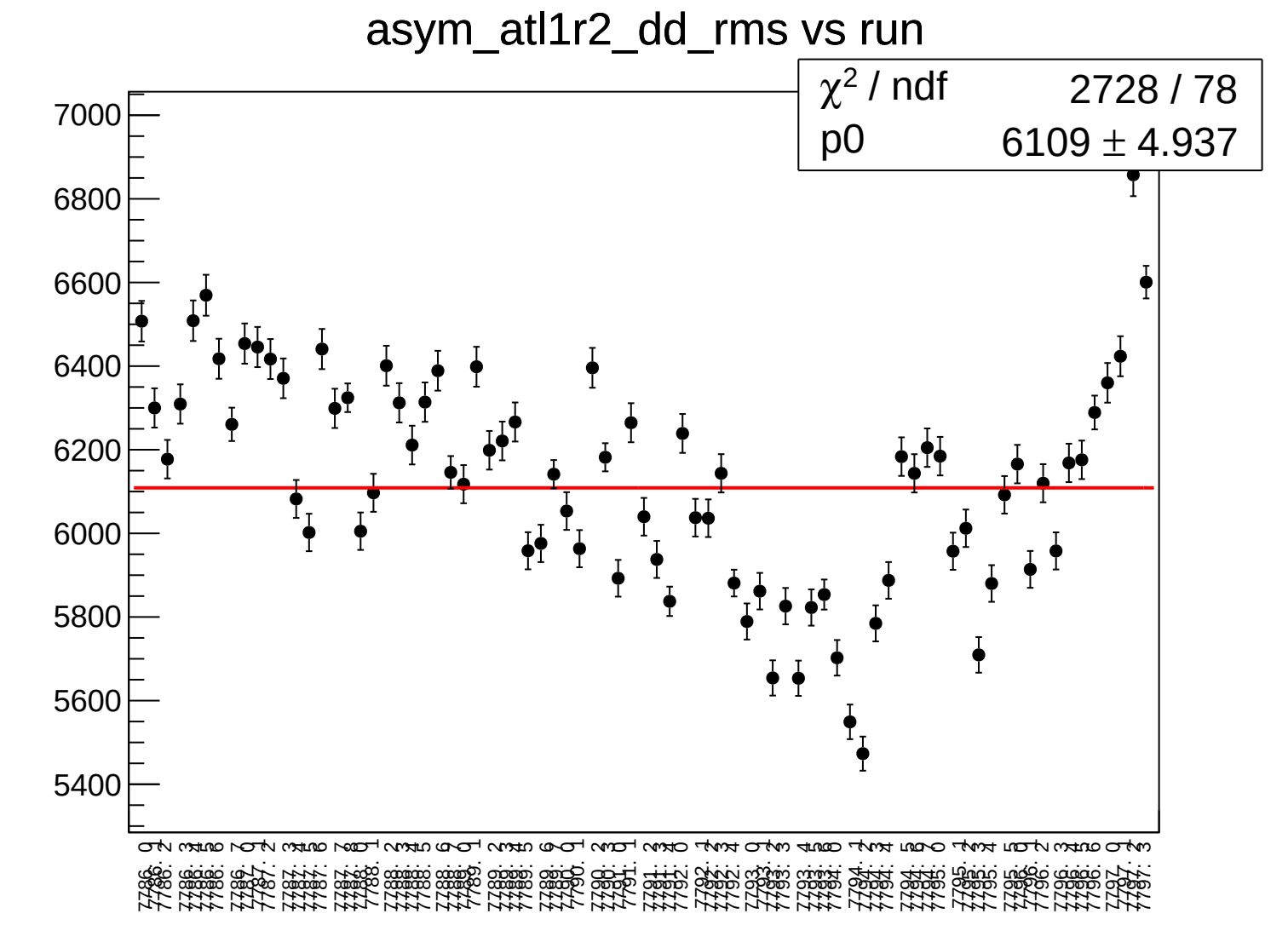

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.52 / 78
p0 −2014 ± 6729
pull
Entries 79
Mean −264.5
Std Dev 0

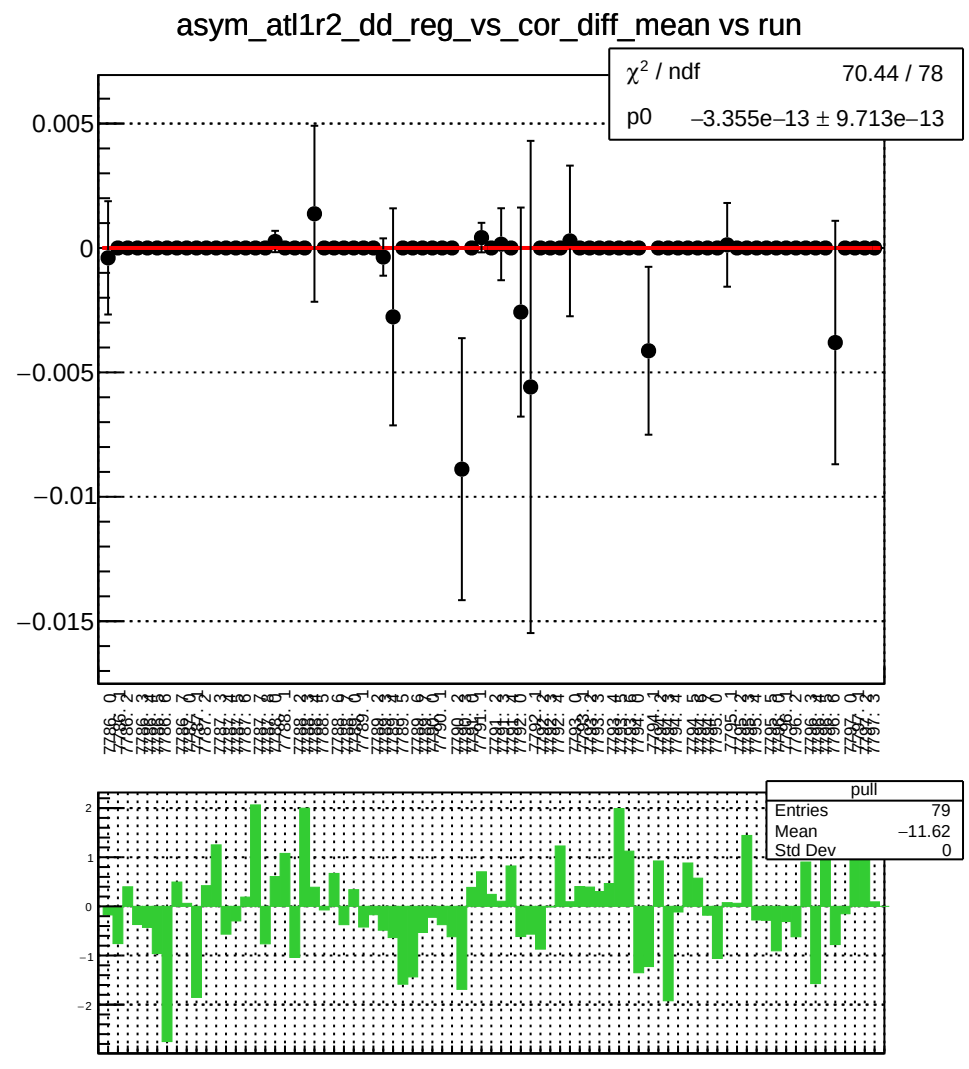

pull1D
Entries 79
Mean 0.01446
Std Dev 0.9905

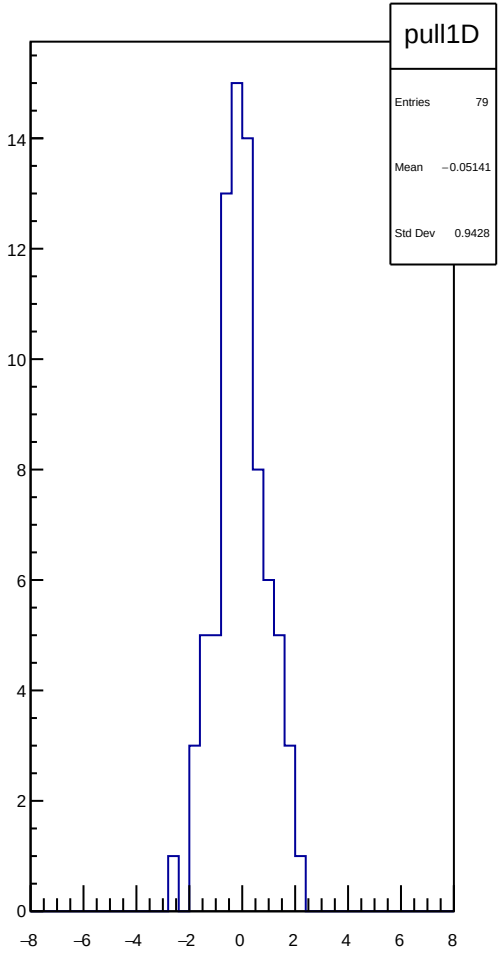

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2919 / 78
p0 5888 ± 4.758
6800
6600
6400
6200
6000
5800
5600
5400
5200

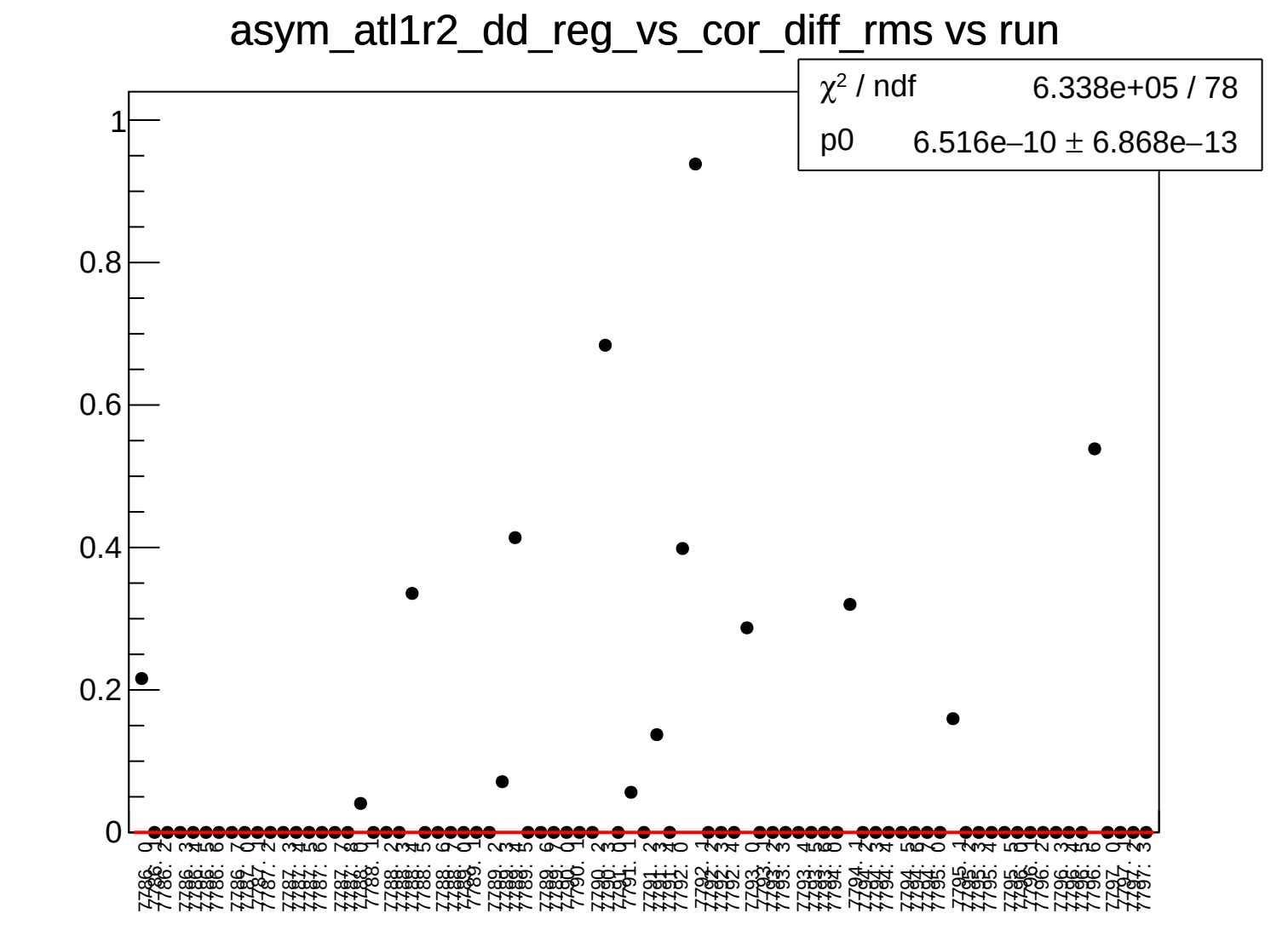

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 75.38 / 78
p0 2884 ± 6982
pull
Entries 79
Mean −256.2
Std Dev 0

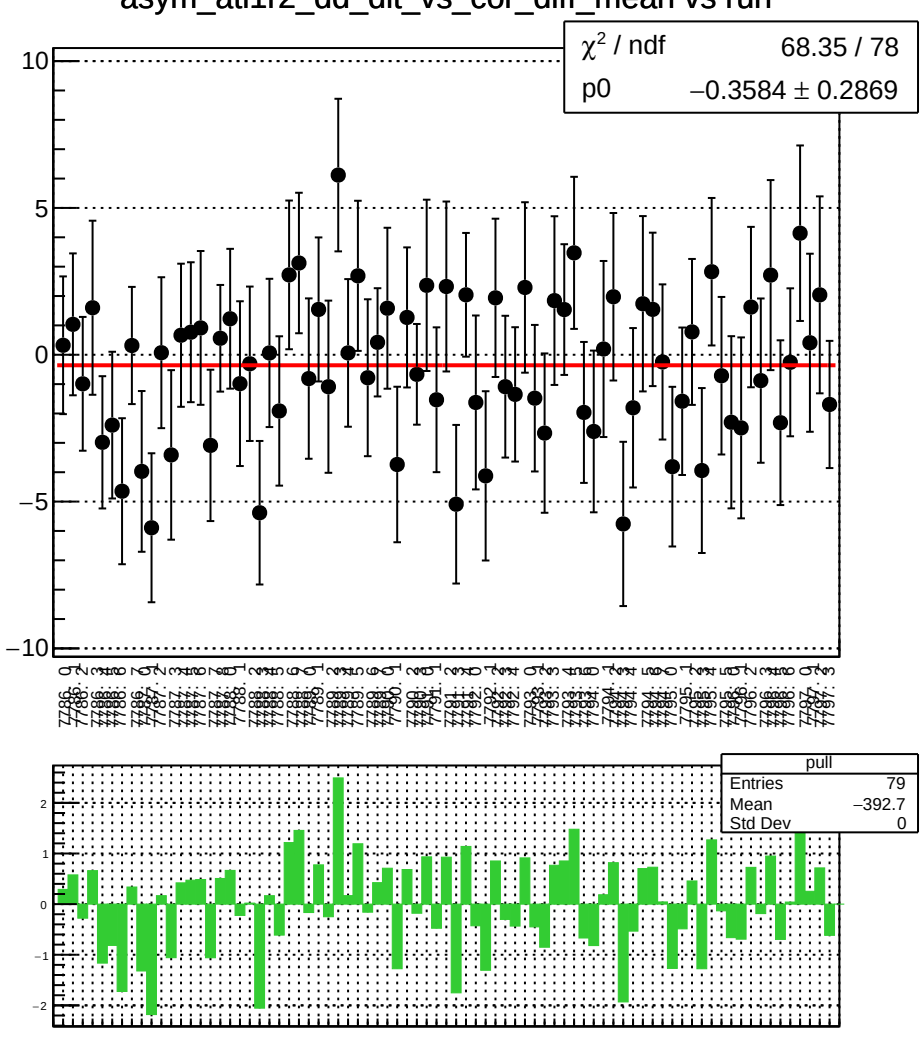

pull1D
Entries 79
Mean −0.01806
Std Dev 0.9766

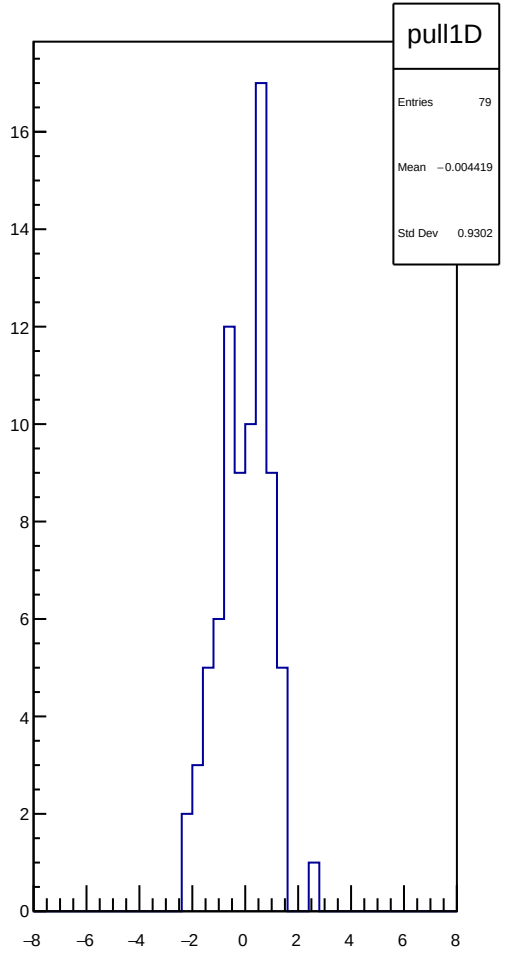

asym_atl1r2_dd_rms vs run
χ^2 / ndf 2728 / 78
p0 6109 ± 4.937
7000
6800
6600
6400
6200
6000
5800
5600
5400

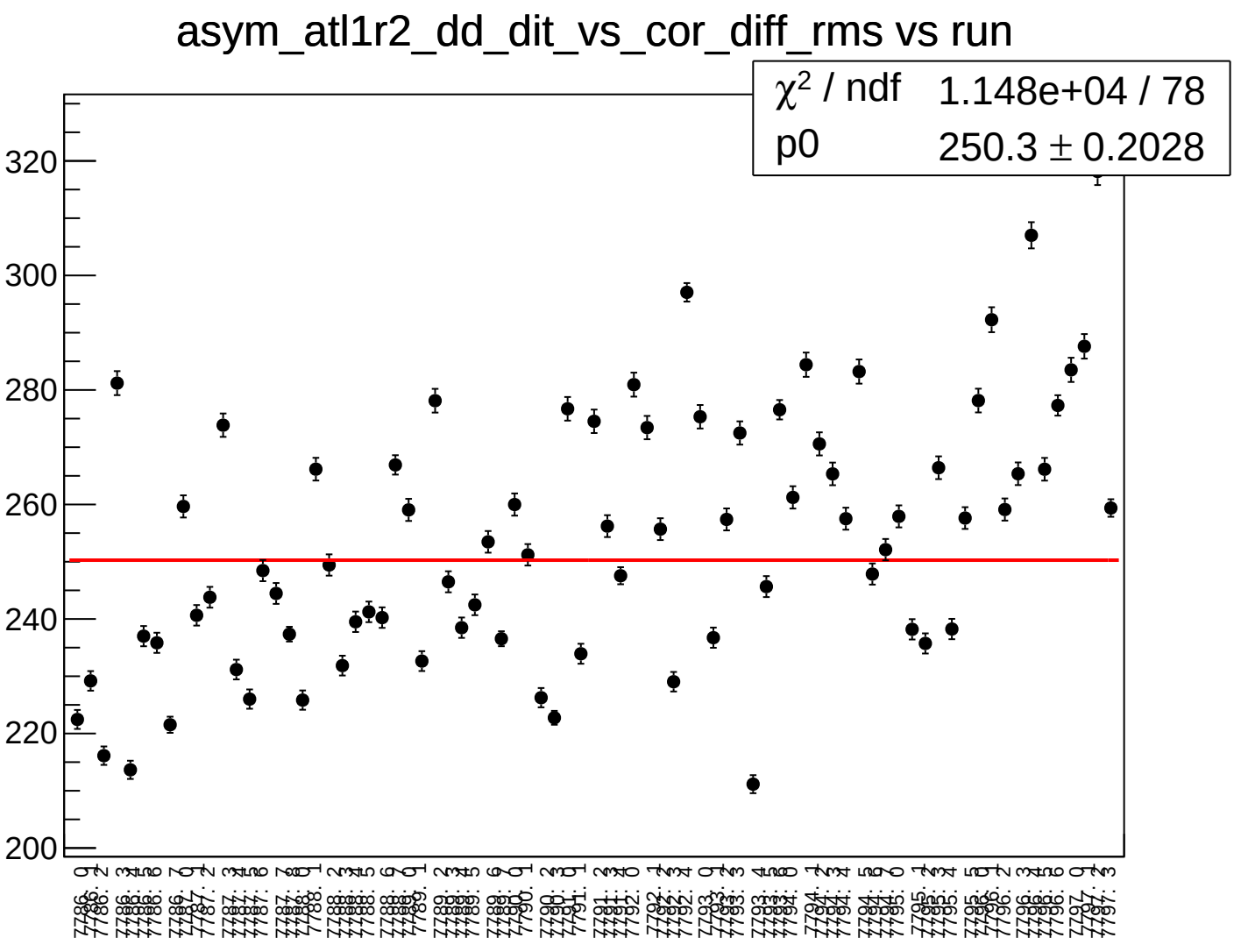

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.44 / 78
p0 −3.355e−13 ± 9.713e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 79
Mean −11.62
Std Dev 0

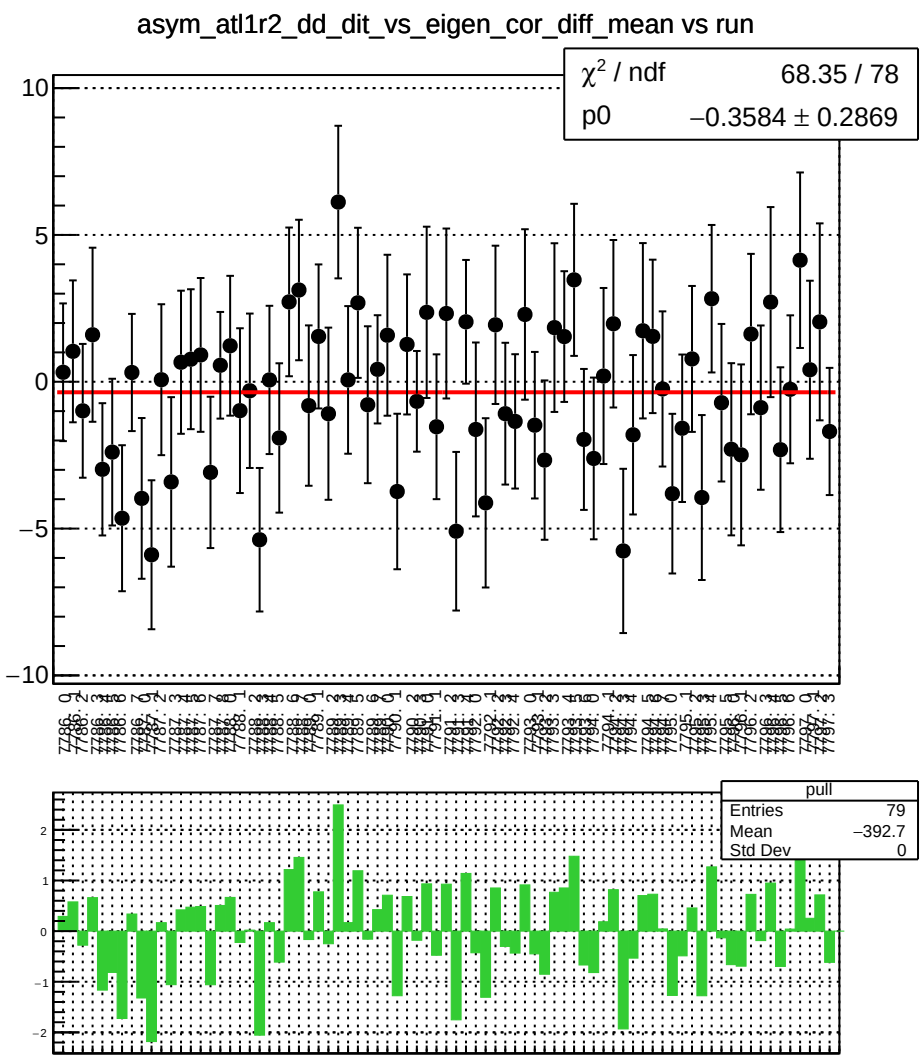

pull1D
Entries 79
Mean −0.05141
Std Dev 0.9428

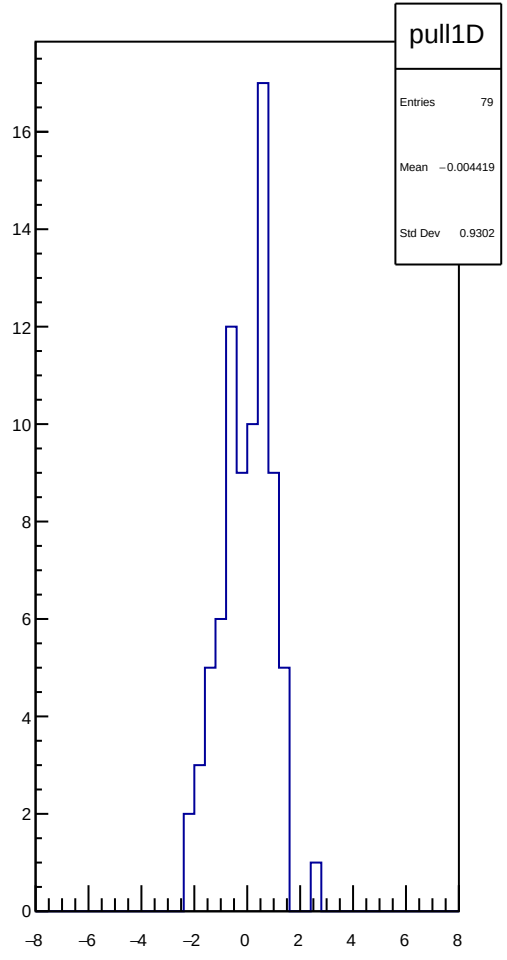

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.338e+05 / 78
p0 6.516e−10 ± 6.868e−13
1
0.8
0.6
0.4
0.2
0

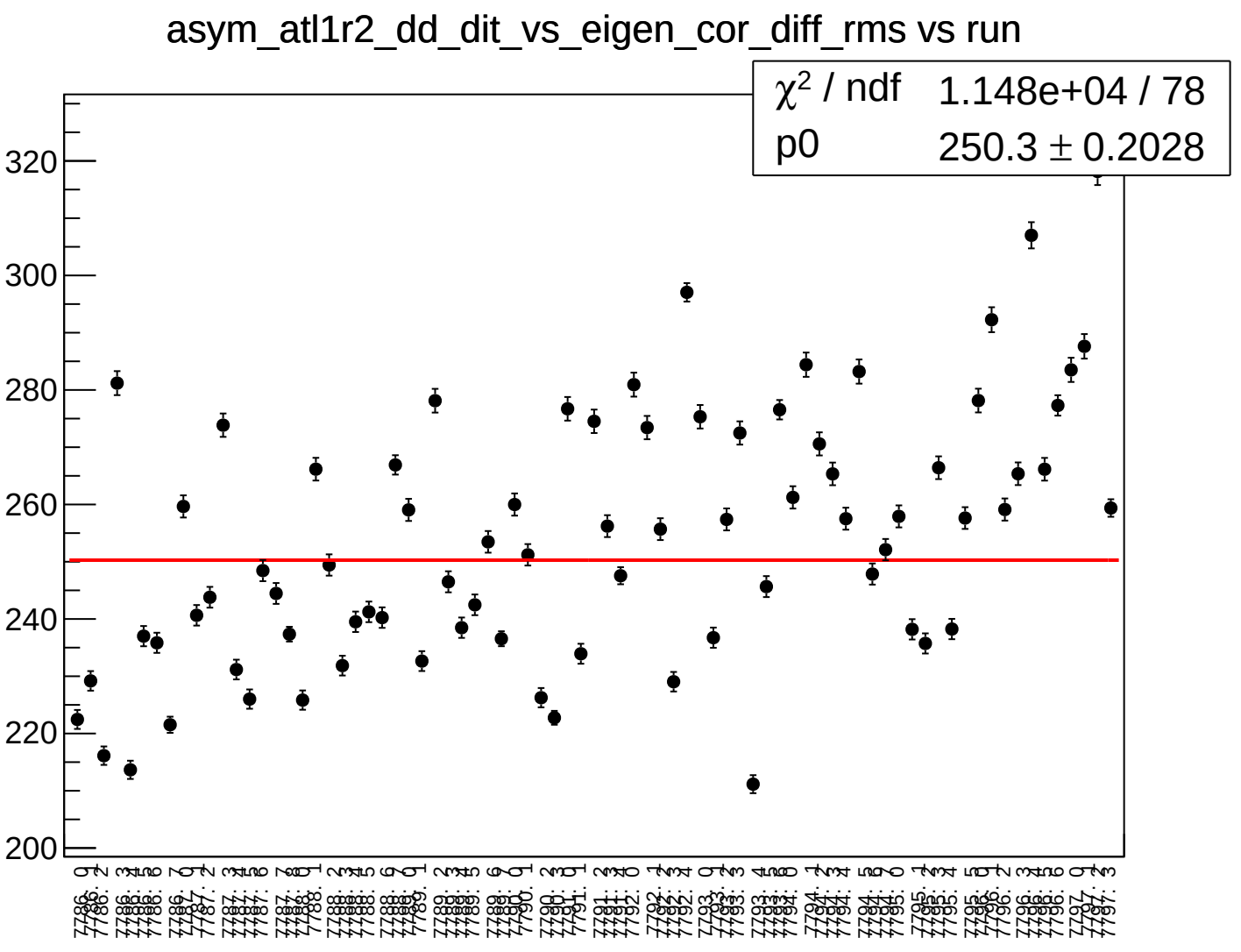

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.35 / 78
p0 −0.3584 ± 0.2869
pull
Entries 79
Mean −392.7
Std Dev 0

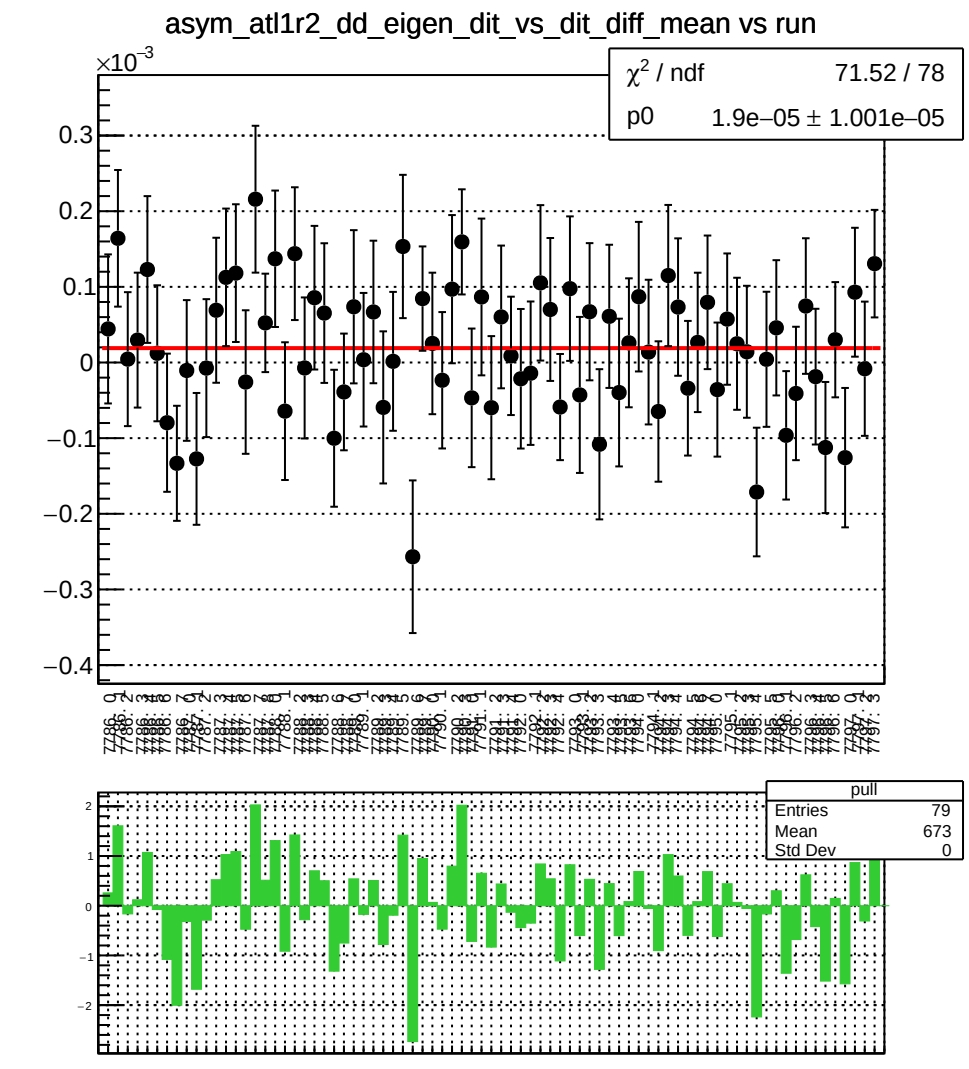

pull1D
Entries 79
Mean −0.004419
Std Dev 0.9302

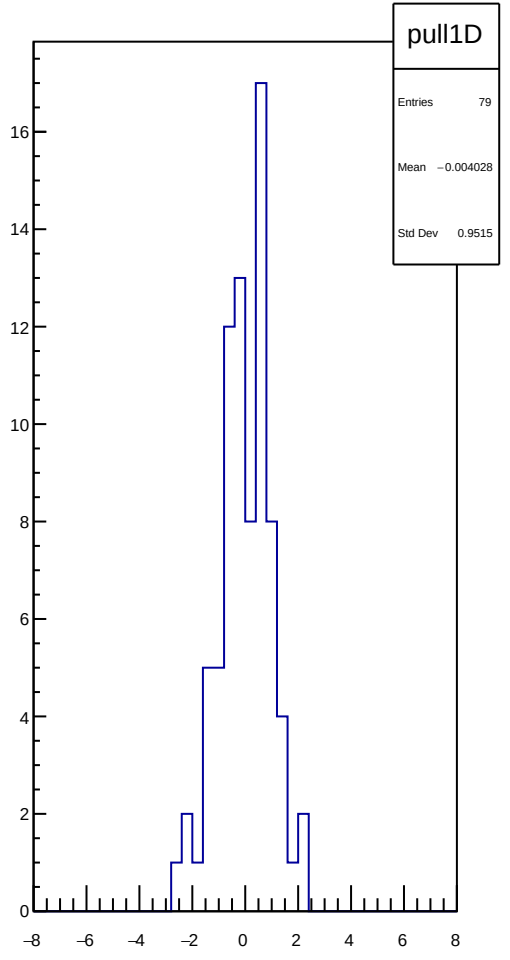

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.148e+04 / 78
p0 250.3 ± 0.2028
320
300
280
260
240
220
200

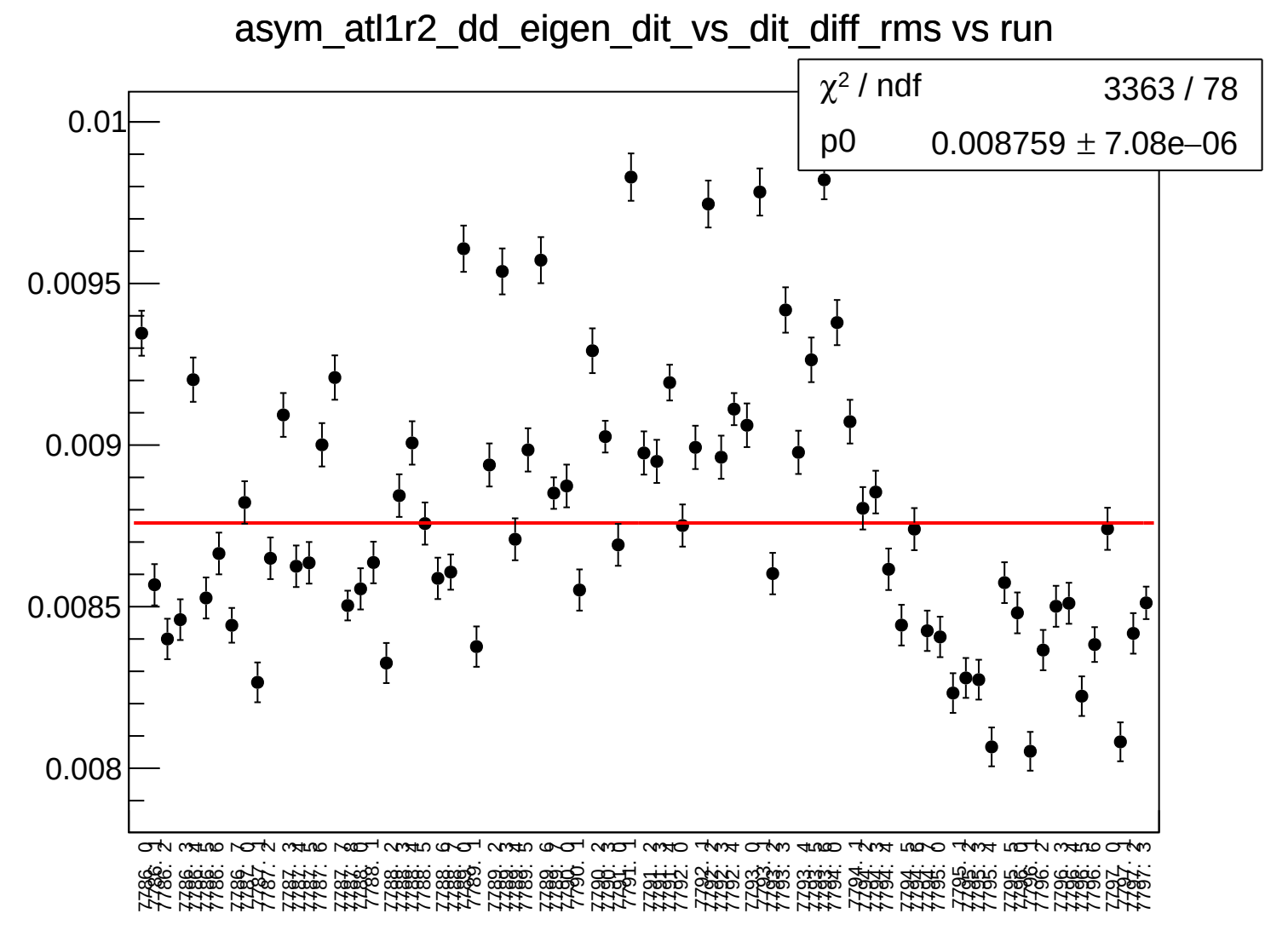

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.35 / 78
p0 −0.3584 ± 0.2869
pull
Entries 79
Mean −392.7
Std Dev 0

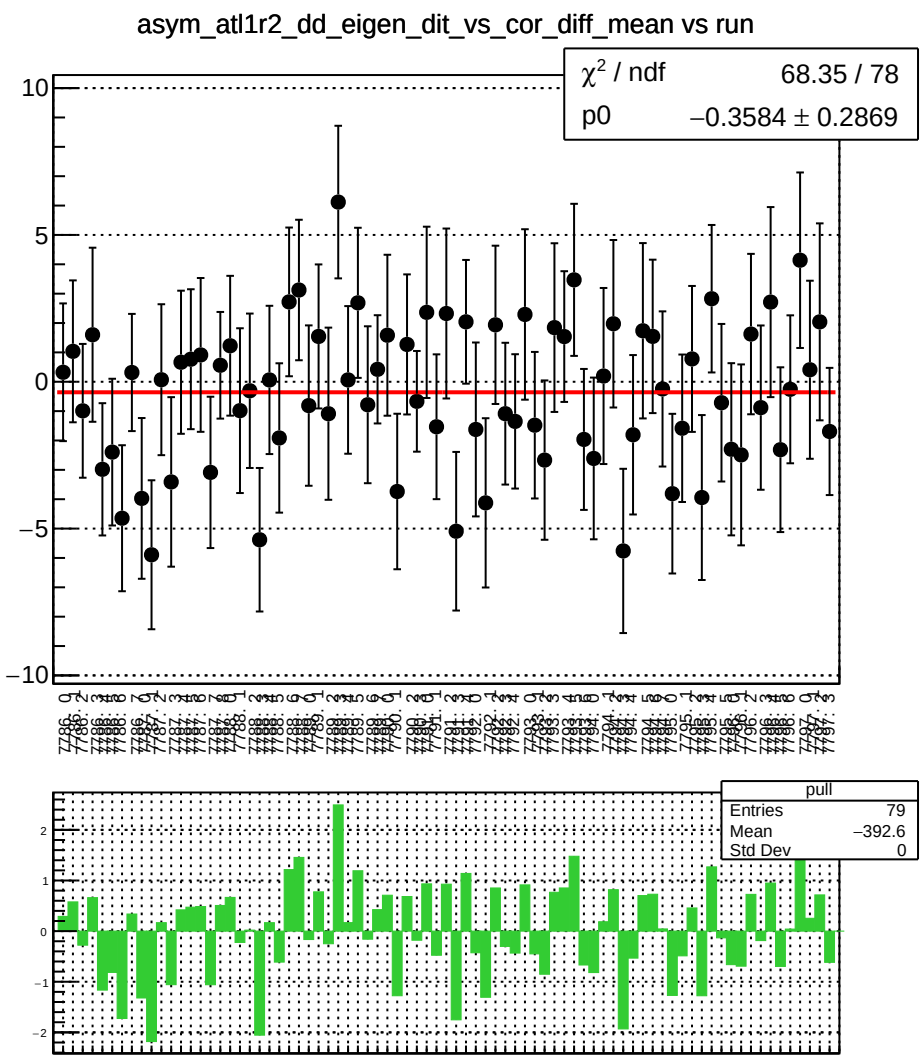

pull1D
Entries 79
Mean −0.004419
Std Dev 0.9302

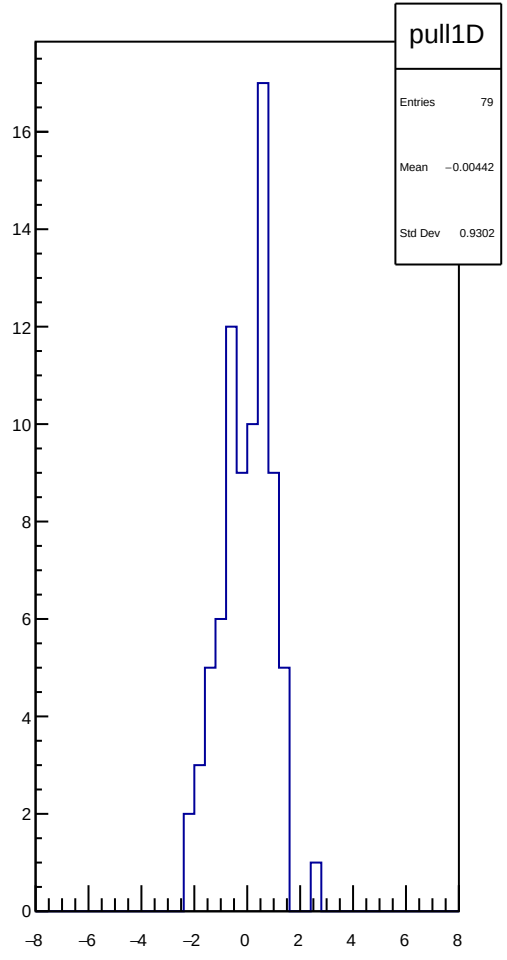

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.148e+04 / 78
p0 250.3 ± 0.2028
320
300
280
260
240
220
200

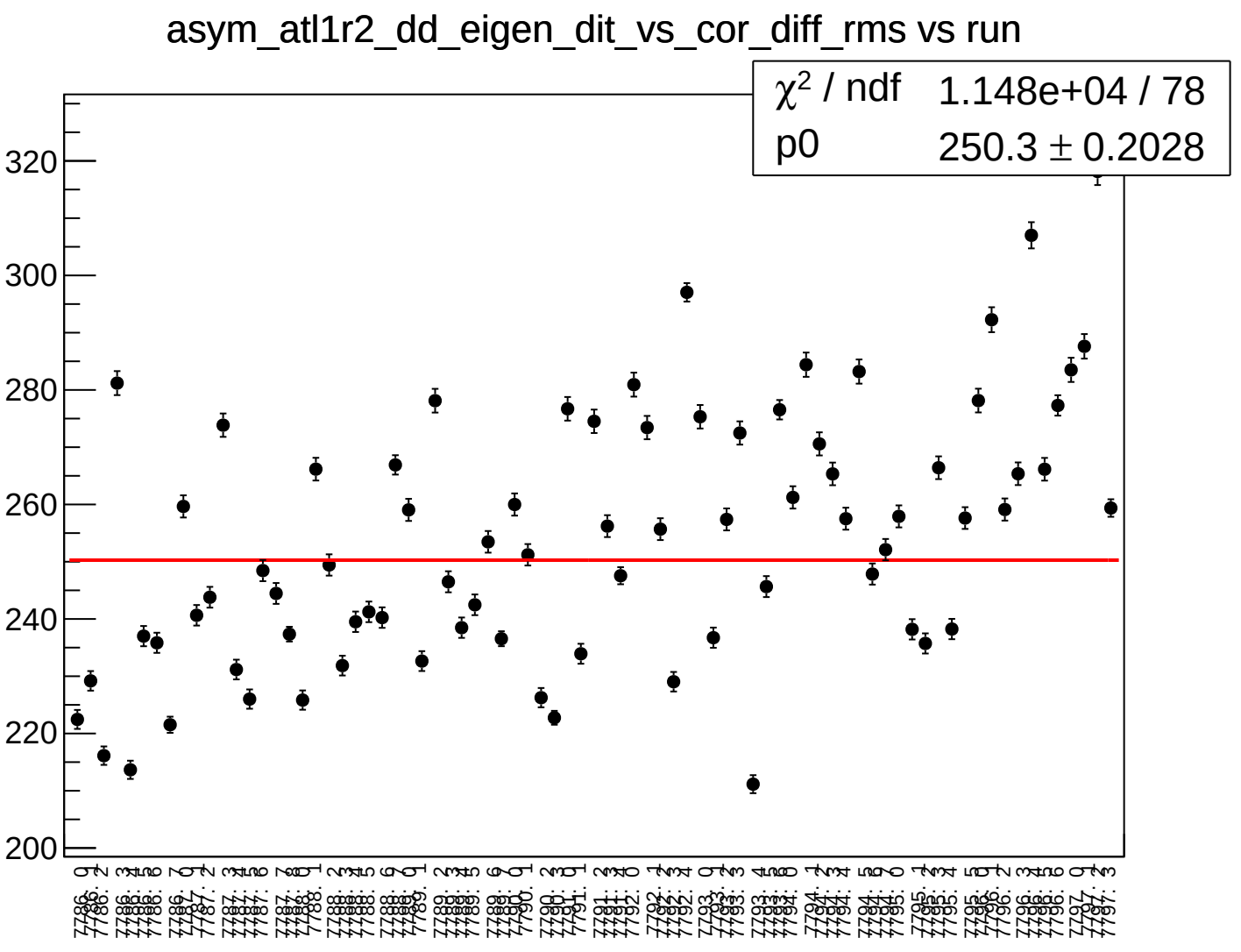

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.52 / 78
p0 1.9e−05 ± 1.001e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 79
Mean 673
Std Dev 0
2
1
0
−1
−2

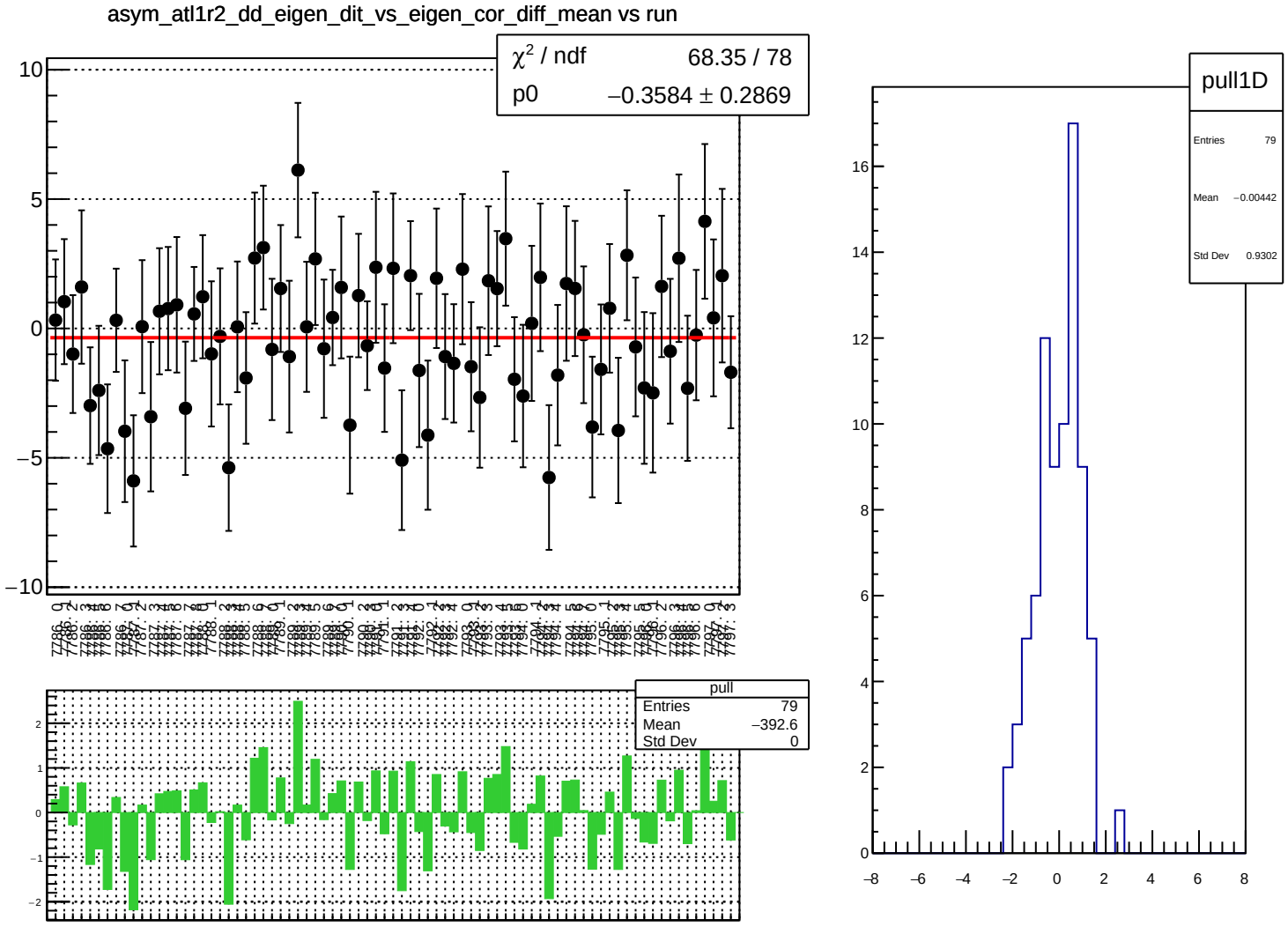

pull1D
Entries 79
Mean −0.004028
Std Dev 0.9515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

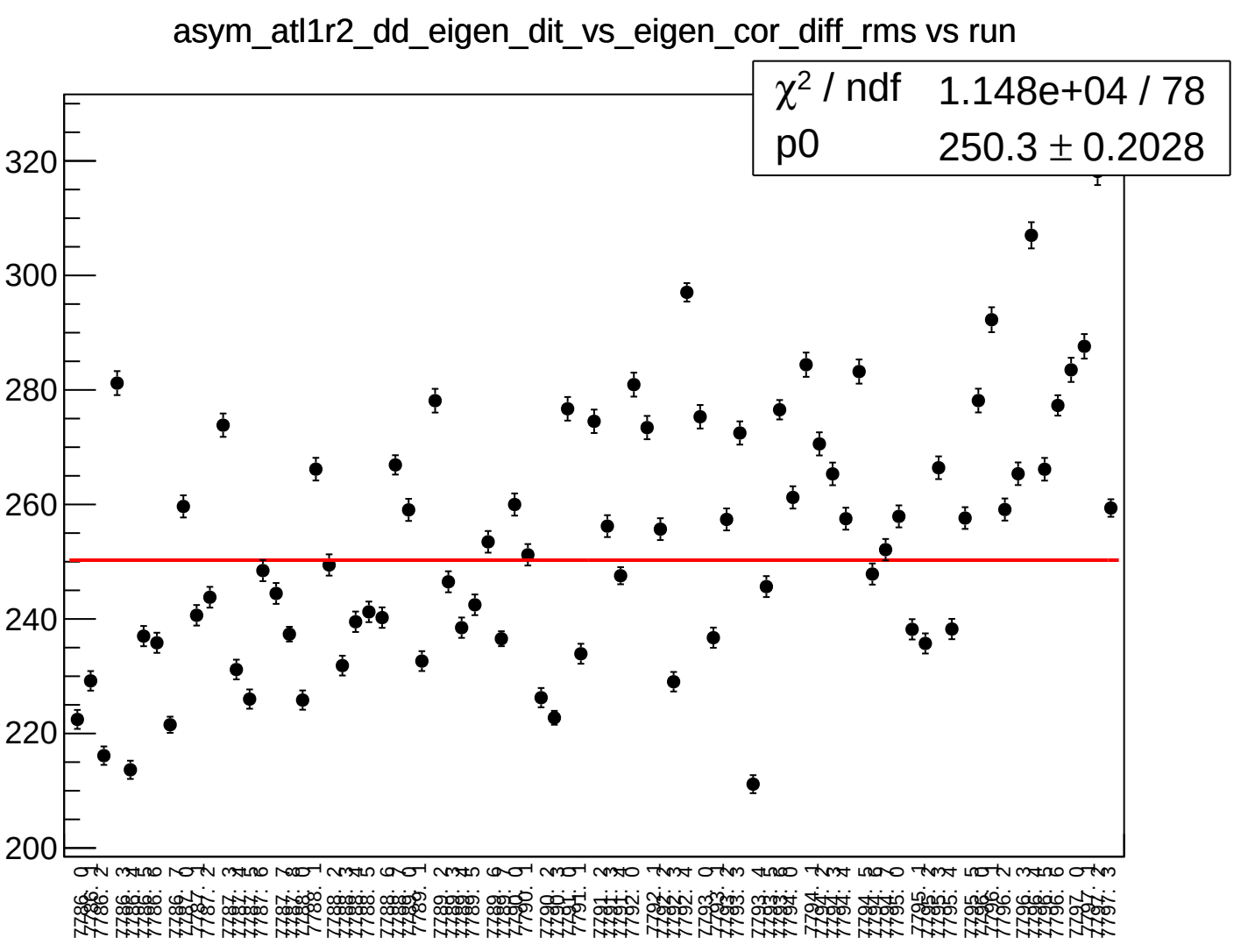

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3363 / 78
p0 0.008759 ± 7.08e–06
0.01
0.0095
0.009
0.0085
0.008

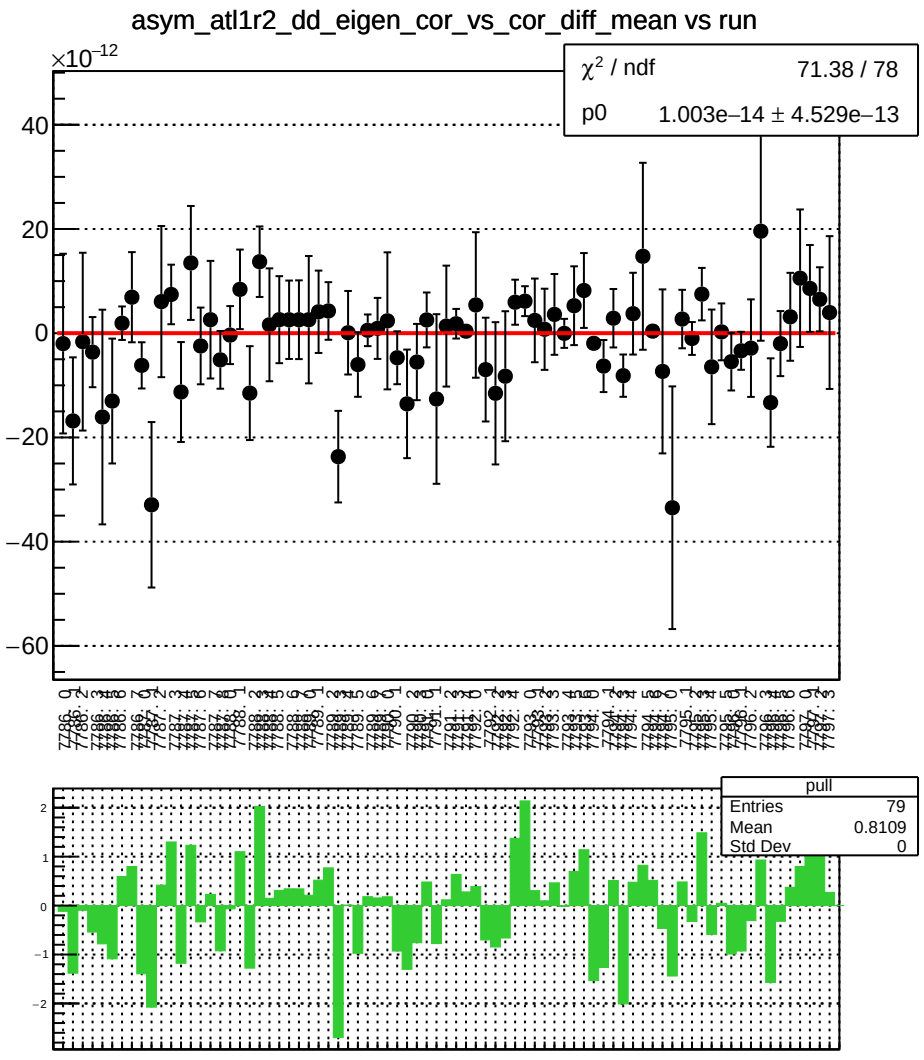

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.35 / 78
p0 −0.3584 ± 0.2869
pull
Entries 79
Mean −392.6
Std Dev 0

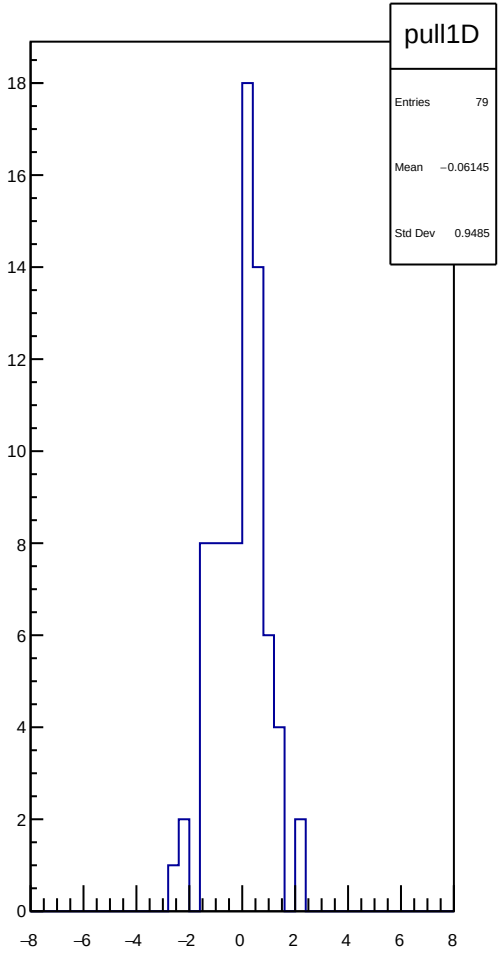

pull1D
Entries 79
Mean −0.00442
Std Dev 0.9302

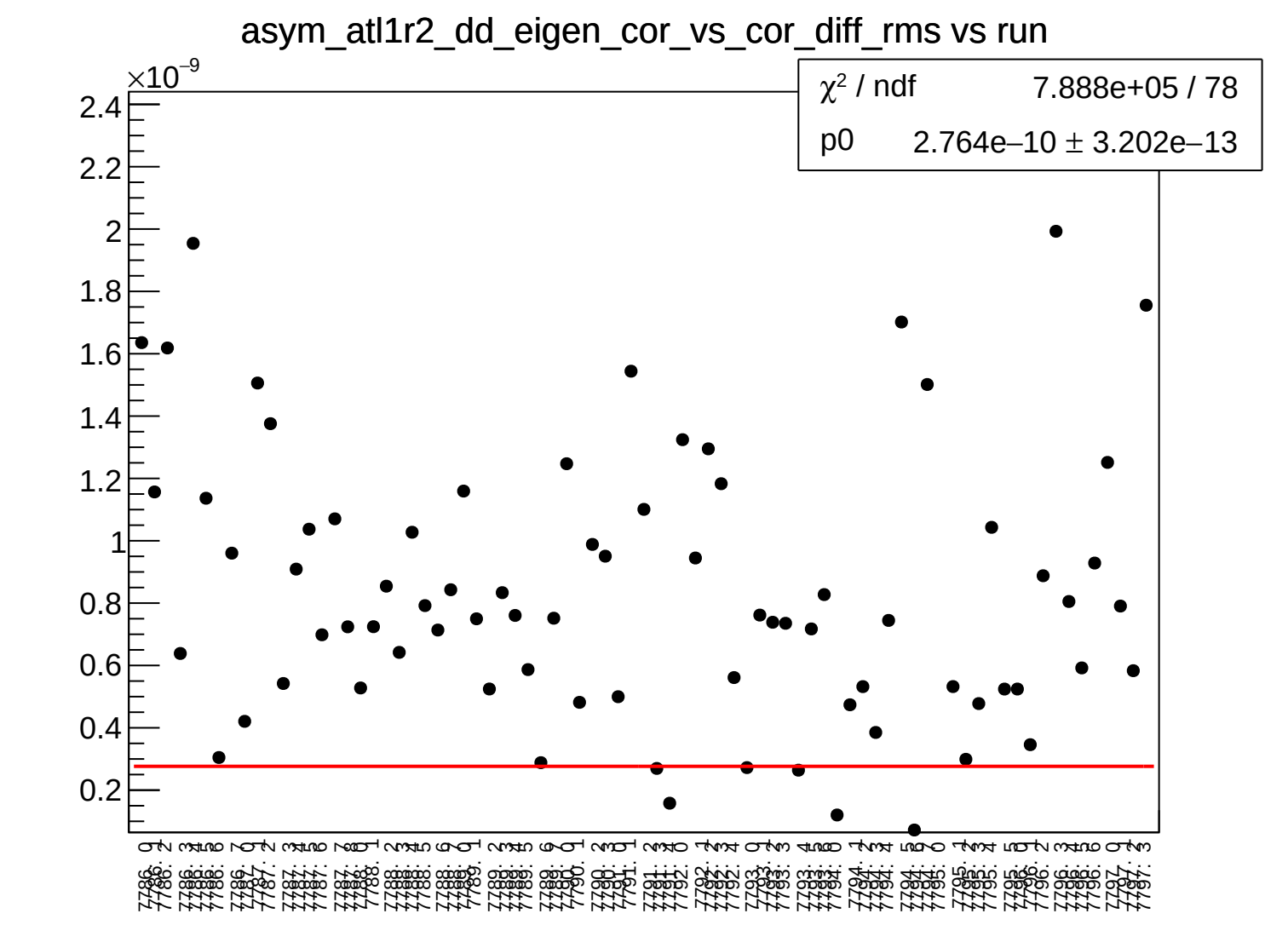

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.148e+04 / 78
p0 250.3 ± 0.2028
320
300
280
260
240
220
200

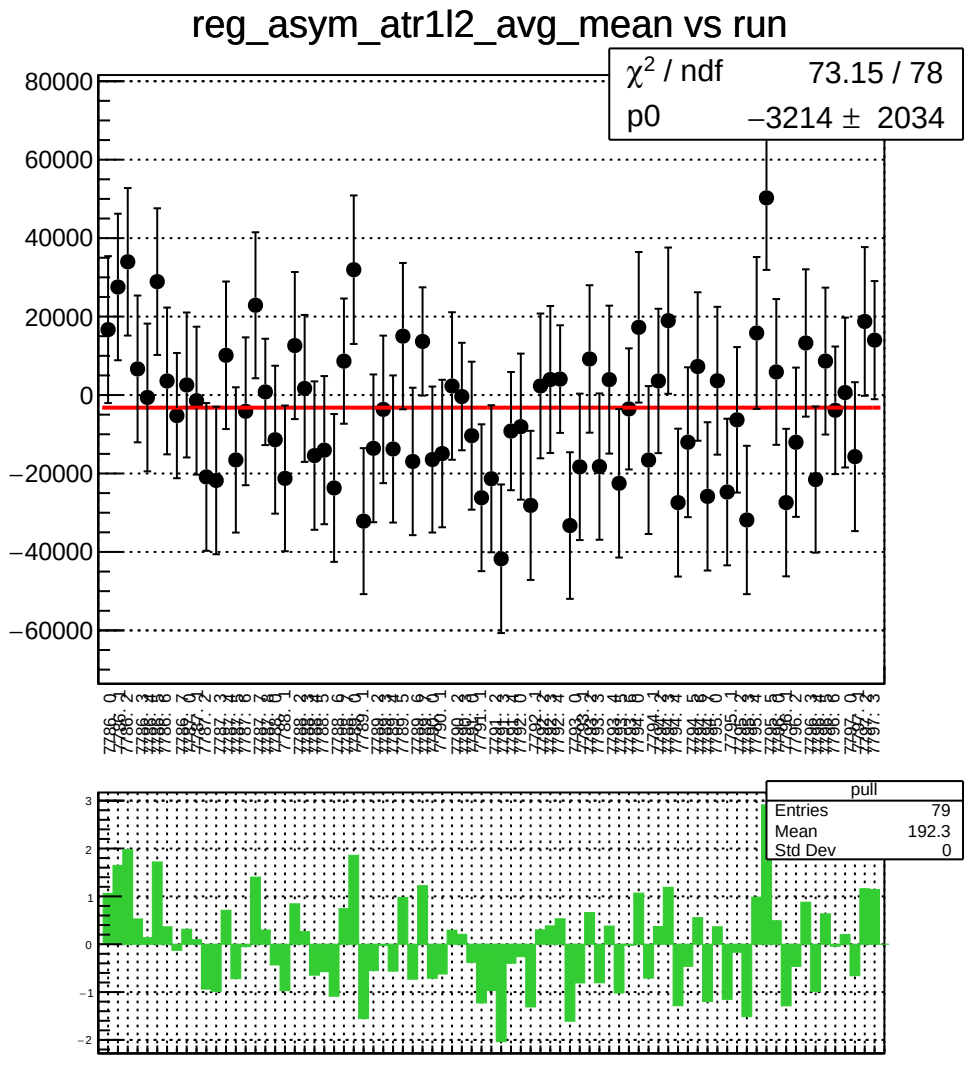

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.35 / 78
p0 −0.3584 ± 0.2869
pull
Entries 79
Mean −392.6
Std Dev 0
pull1D
Entries 79
Mean −0.00442
Std Dev 0.9302

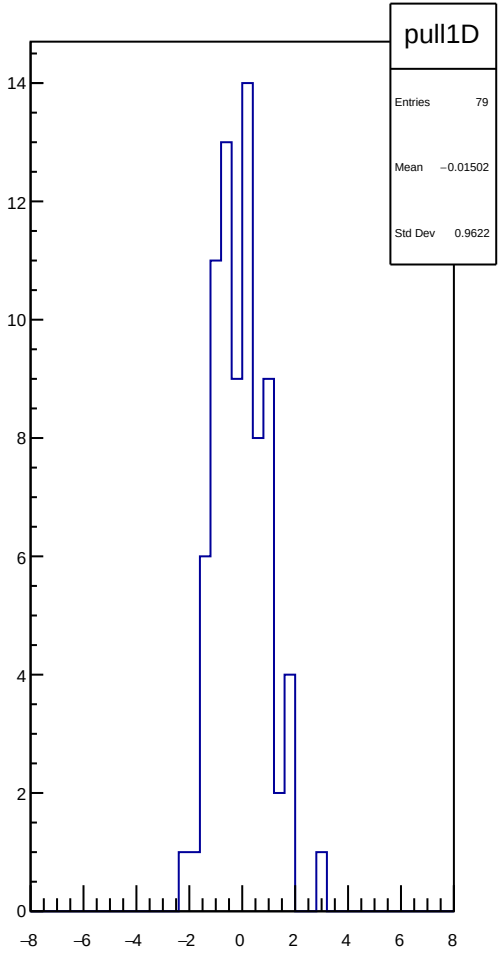

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.148e+04 / 78
p0 250.3 ± 0.2028
320
300
280
260
240
220
200

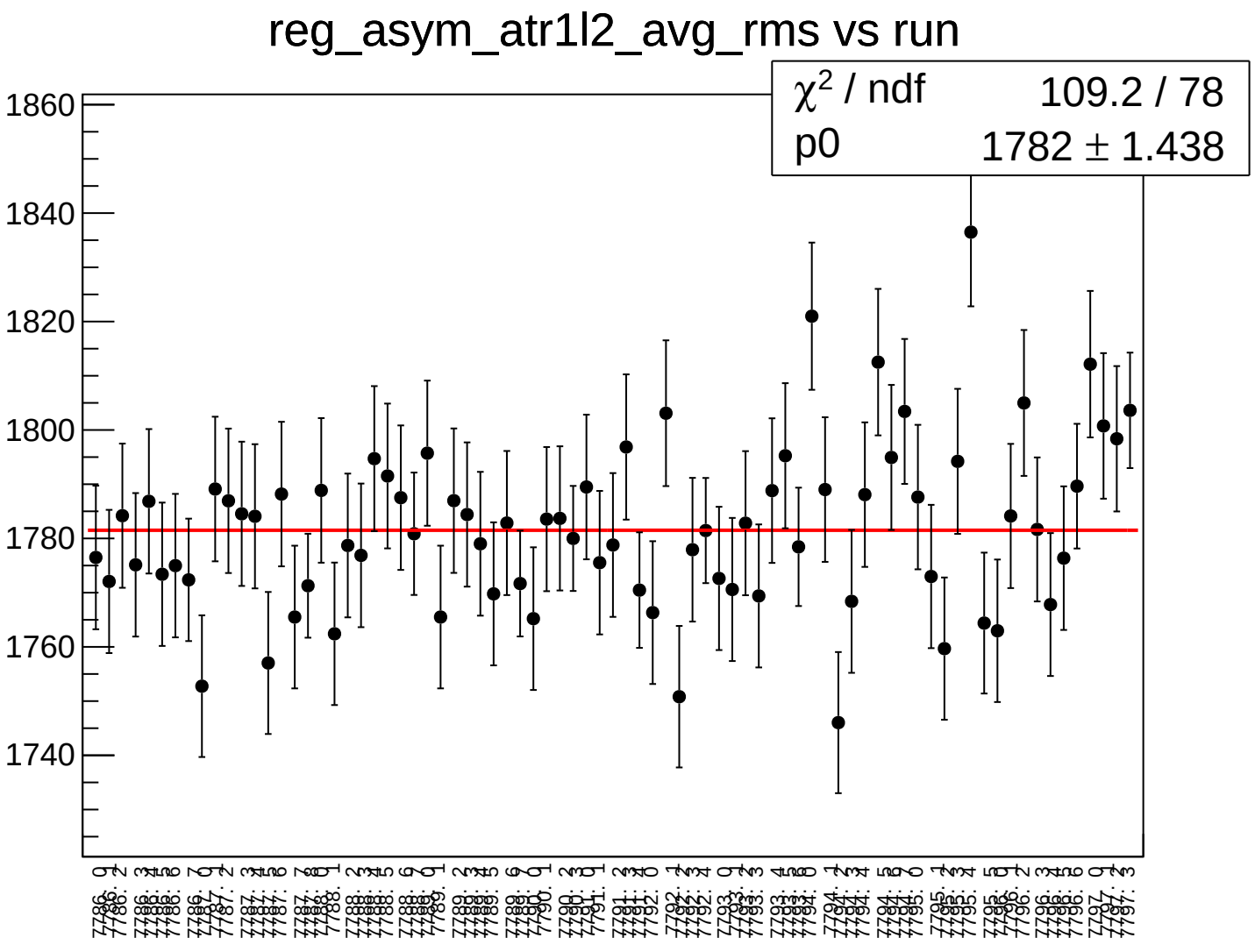

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.38 / 78
p0 1.003e−14 ± 4.529e−13
pull
Entries 79
Mean 0.8109
Std Dev 0

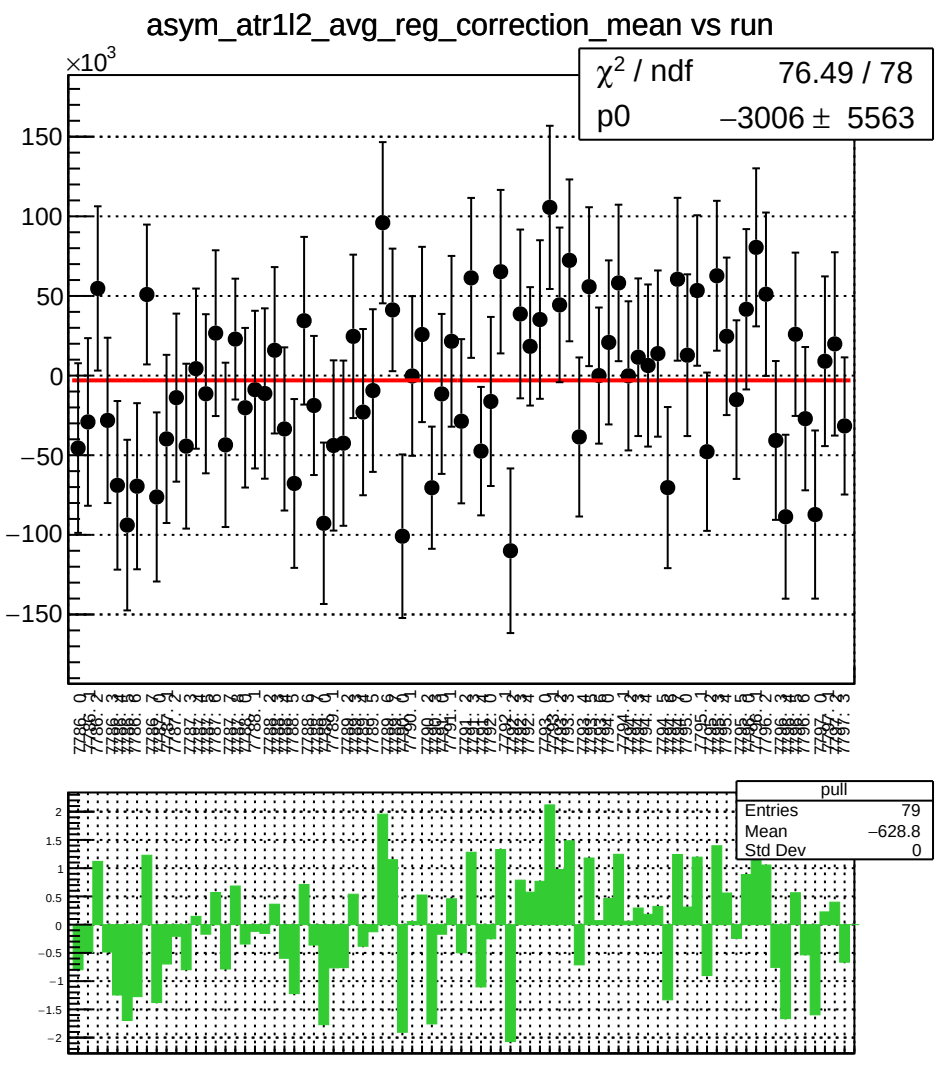

pull1D
Entries 79
Mean −0.06145
Std Dev 0.9485

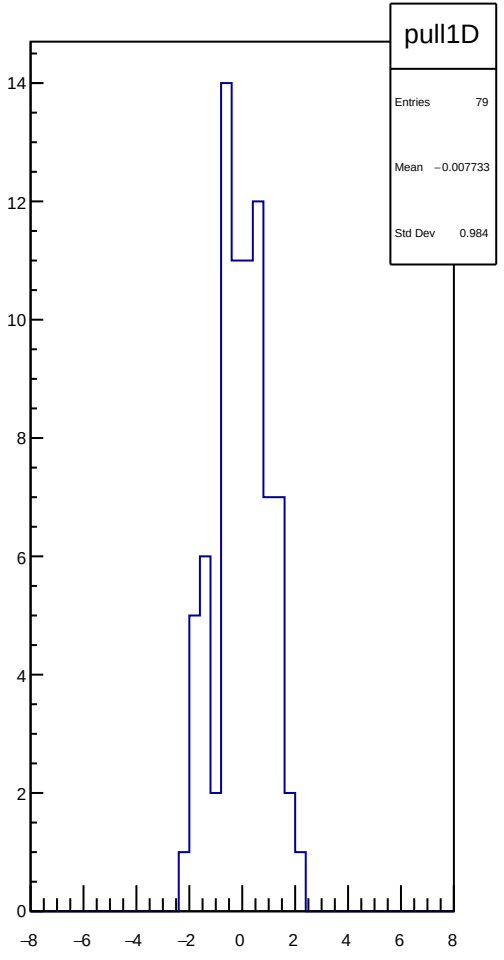

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.888e+05 / 78
p0 2.764e−10 ± 3.202e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

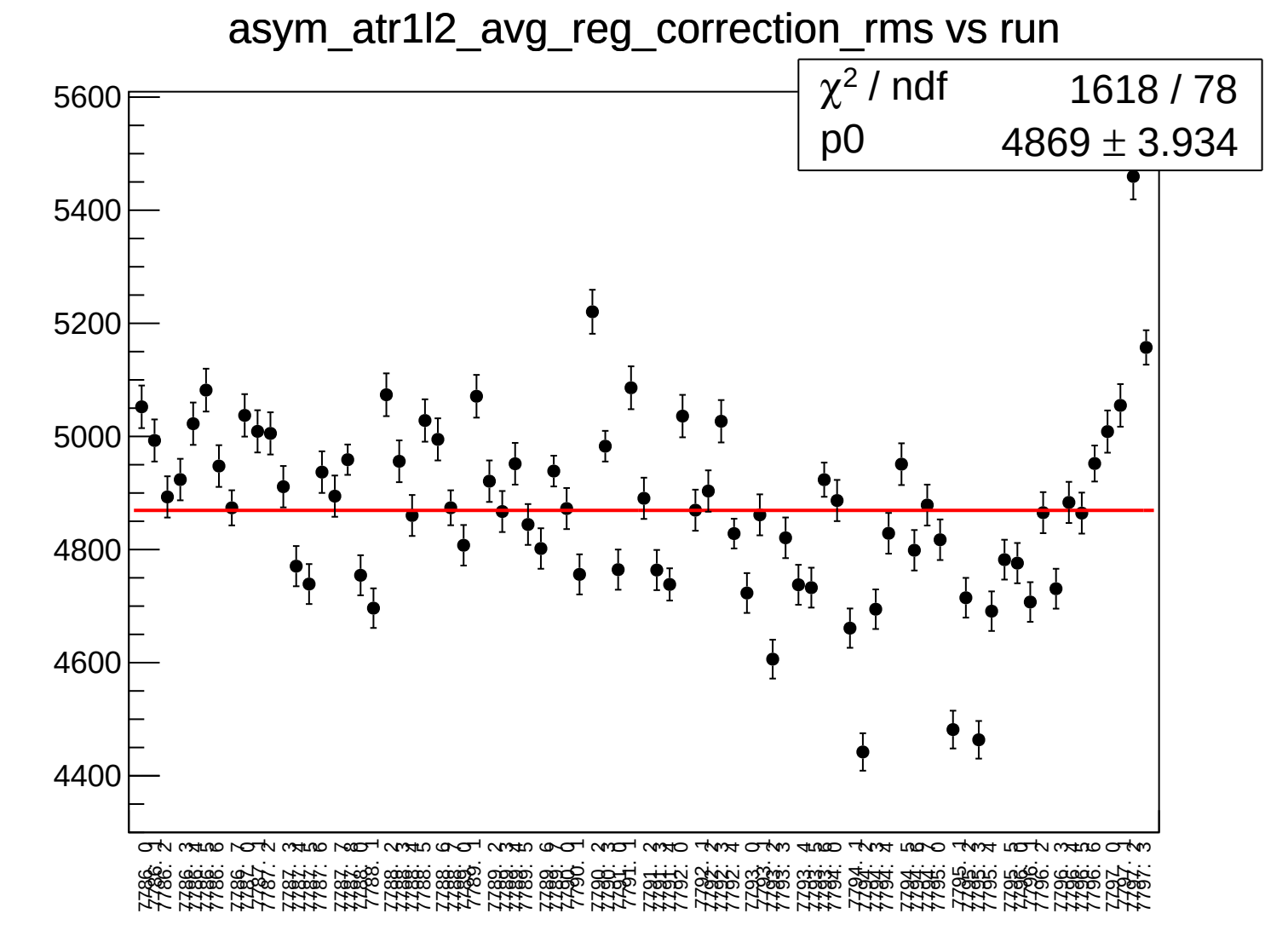

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 73.15 / 78
p0 −3214 ± 2034
pull
Entries 79
Mean 192.3
Std Dev 0

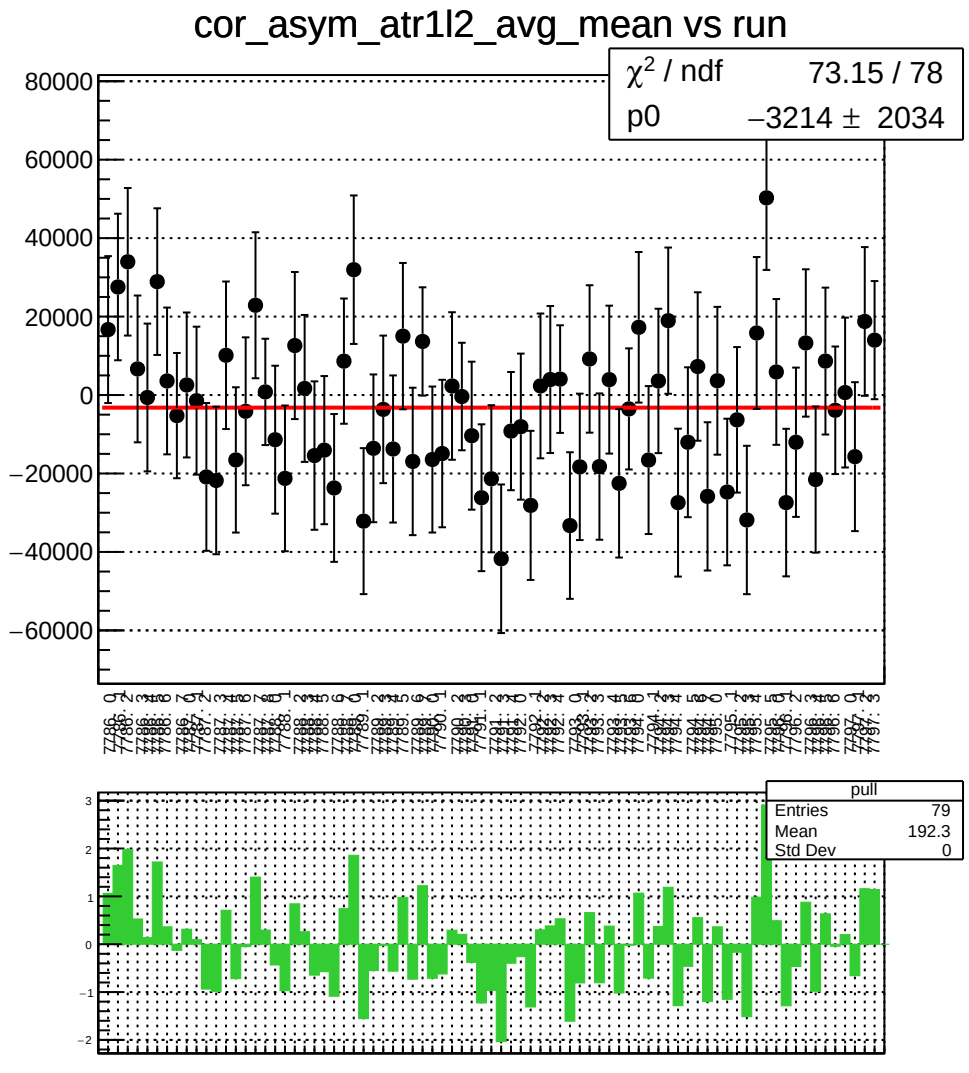

pull1D
Entries 79
Mean −0.01502
Std Dev 0.9622

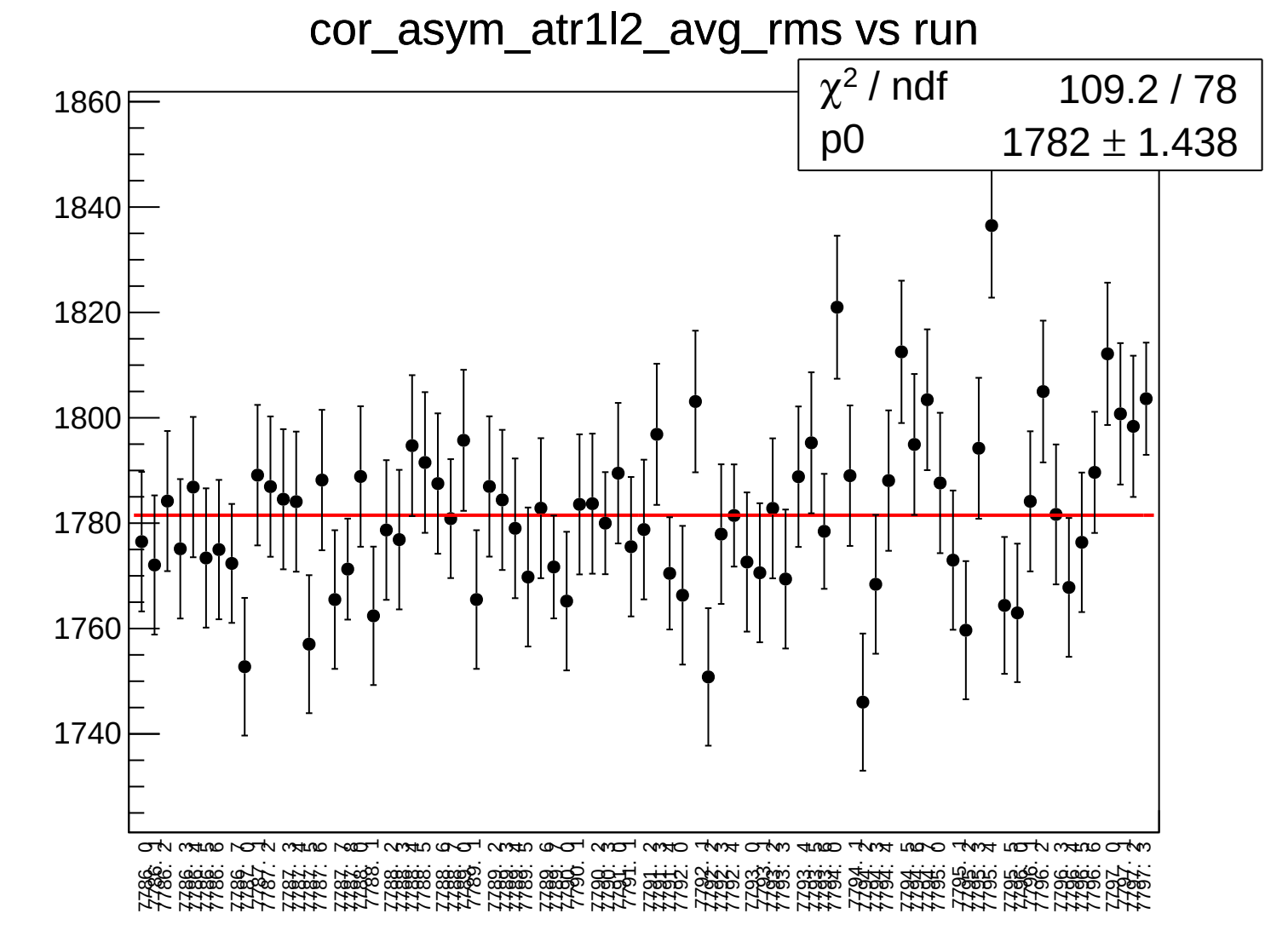

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 109.2 / 78
p0 1782 ± 1.438
1860
1840
1820
1800
1780
1760
1740

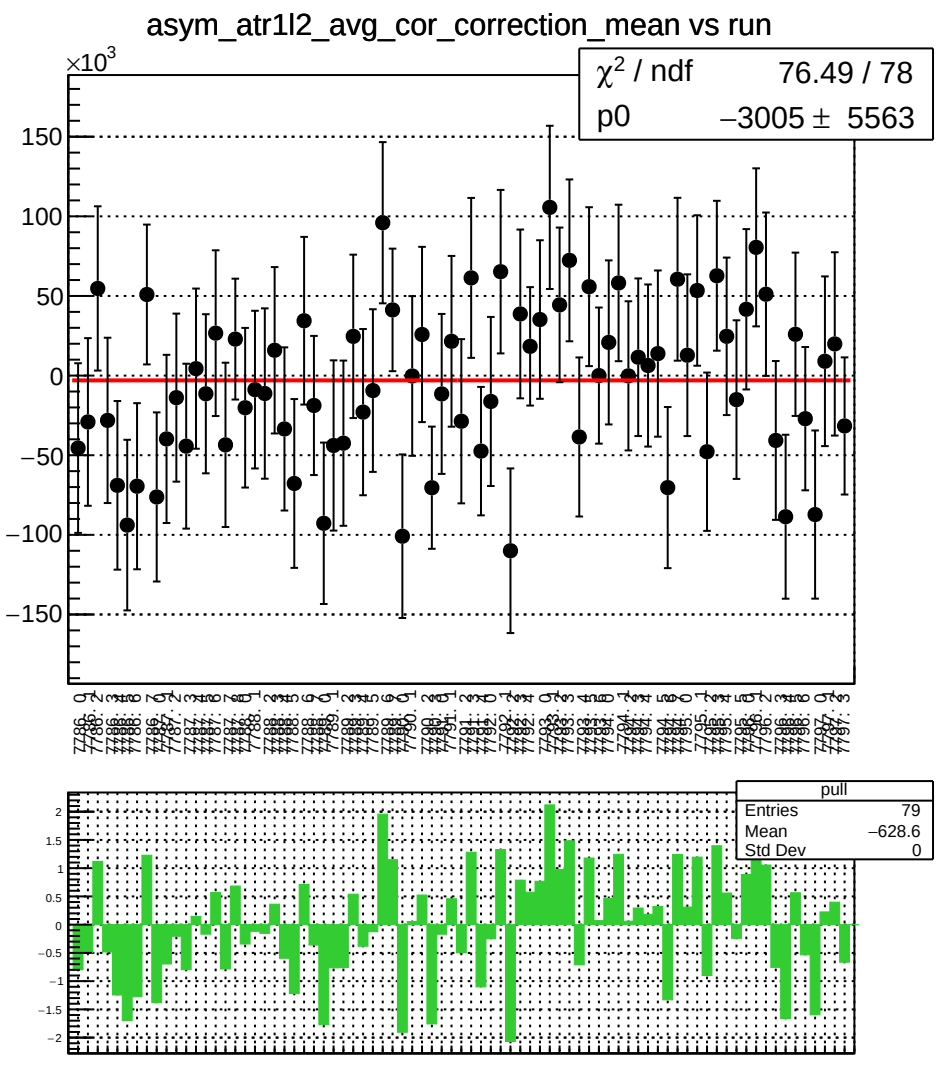

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 76.49 / 78
p0 −3006 ± 5563
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −628.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

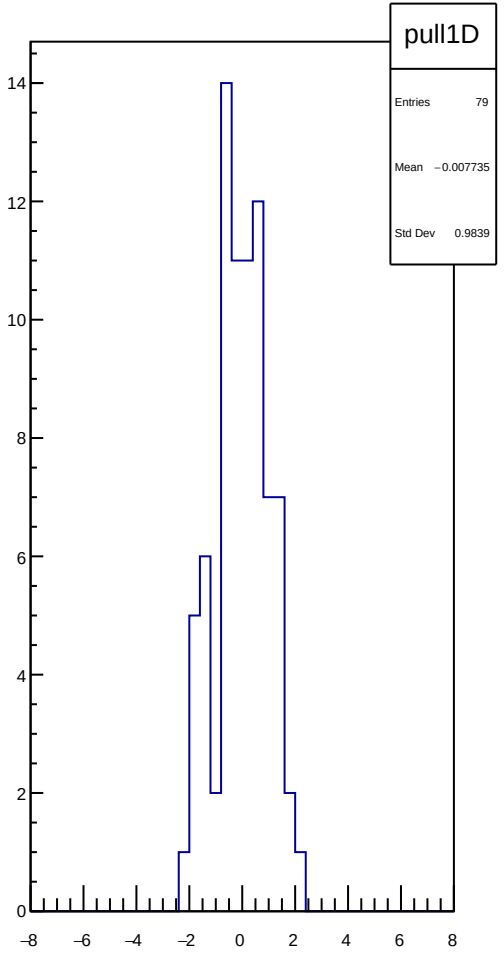

pull1D
Entries 79
Mean −0.007733
Std Dev 0.984
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

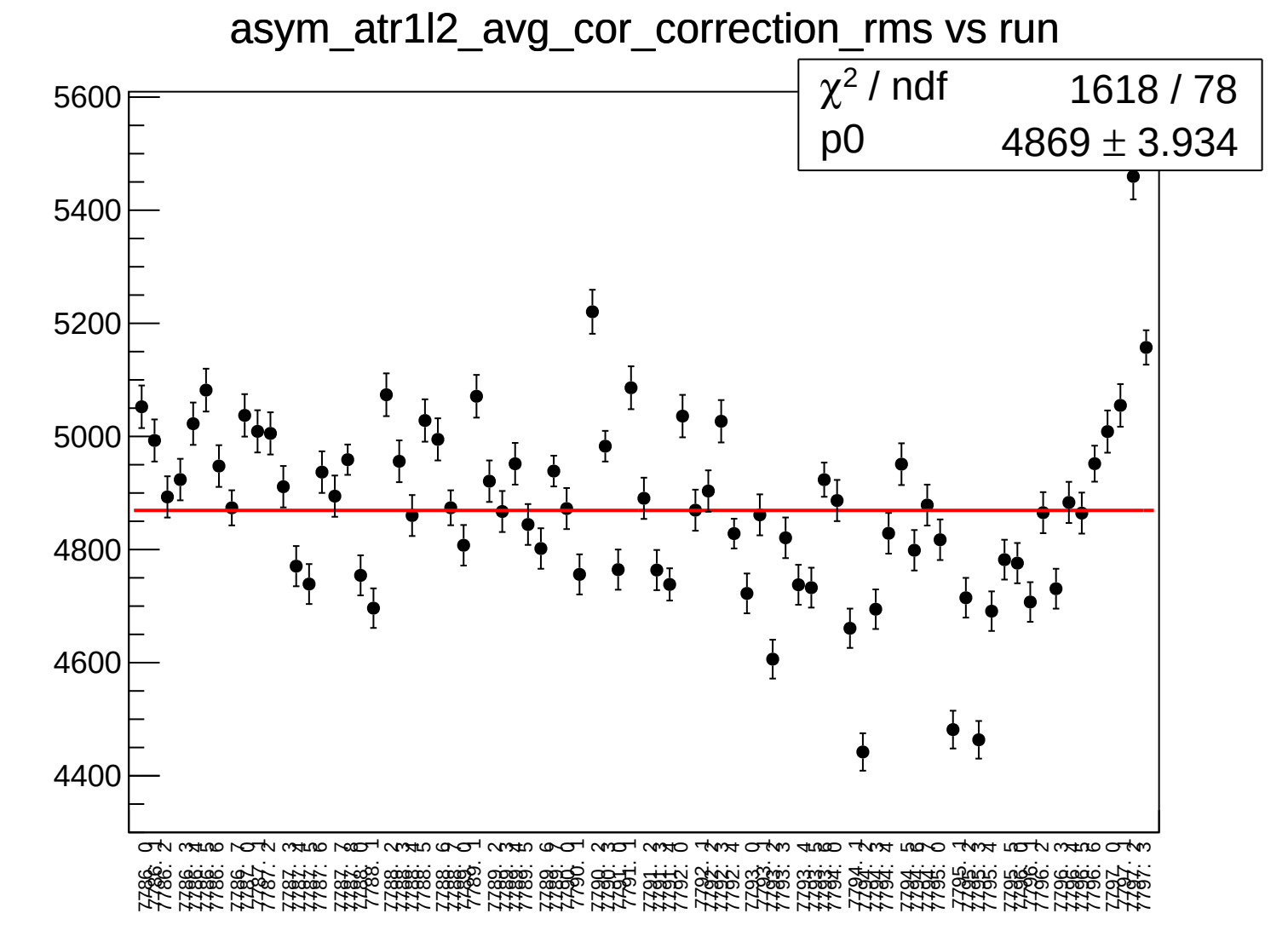

asym_atr1l2_avg_reg_correction_rms vs run
χ^2 / ndf 1618 / 78
p0 4869 ± 3.934
5600
5400
5200
5000
4800
4600
4400

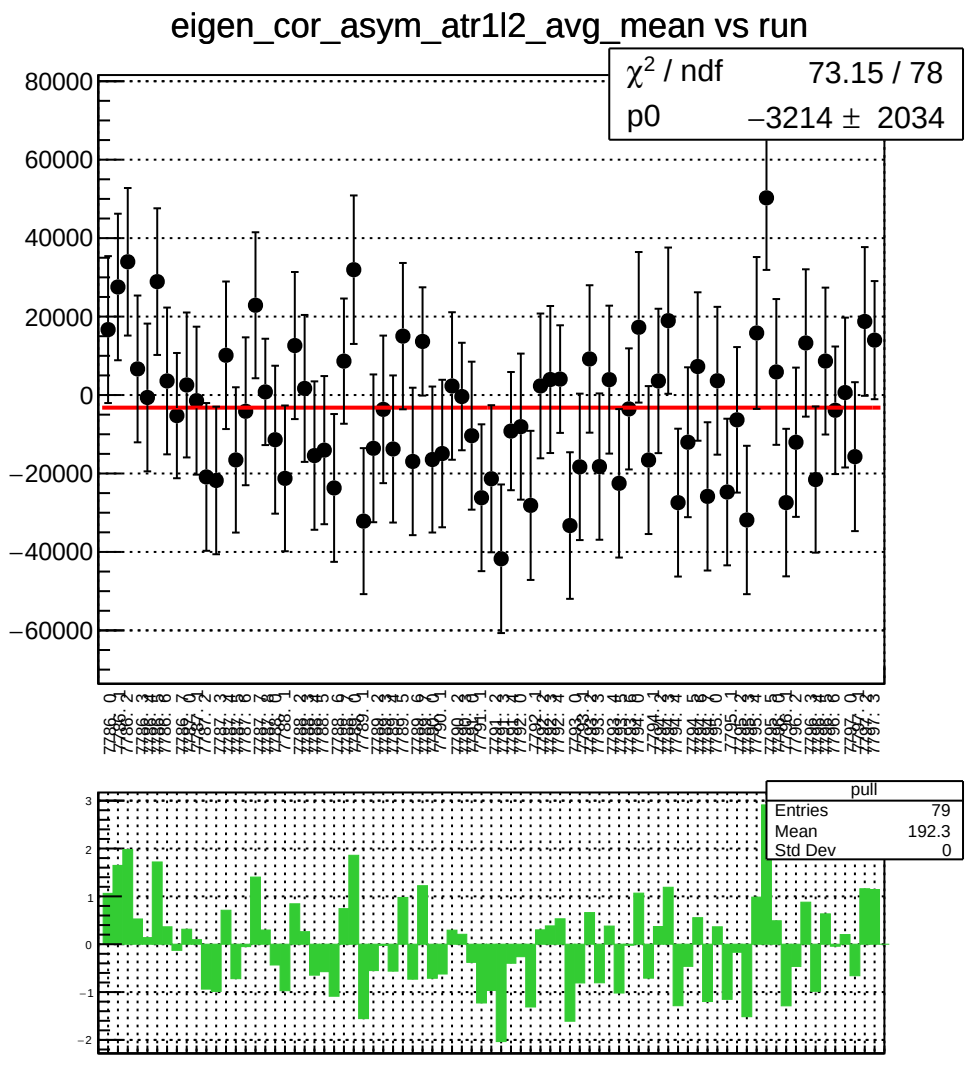

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 73.15 / 78
p0 −3214 ± 2034
pull
Entries 79
Mean 192.3
Std Dev 0
pull1D
Entries 79
Mean −0.01503
Std Dev 0.9622

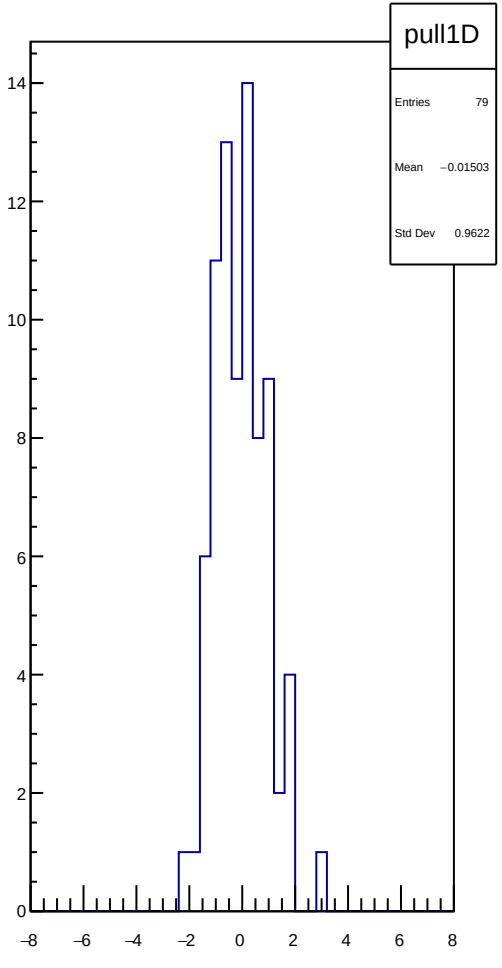

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 109.2 / 78
p0 1782 ± 1.438
1860
1840
1820
1800
1780
1760
1740

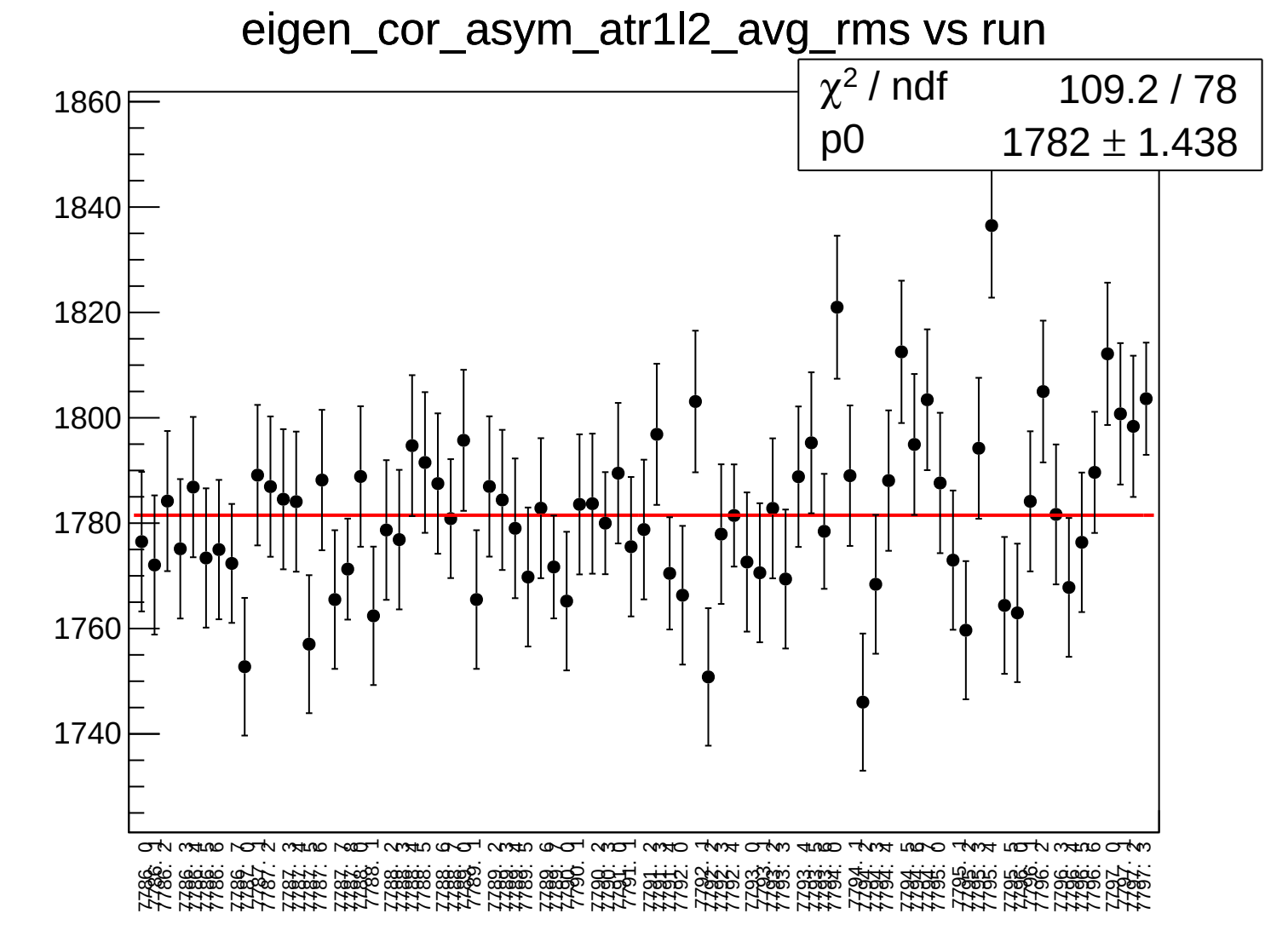

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 76.49 / 78
p0 −3005 ± 5563
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −628.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

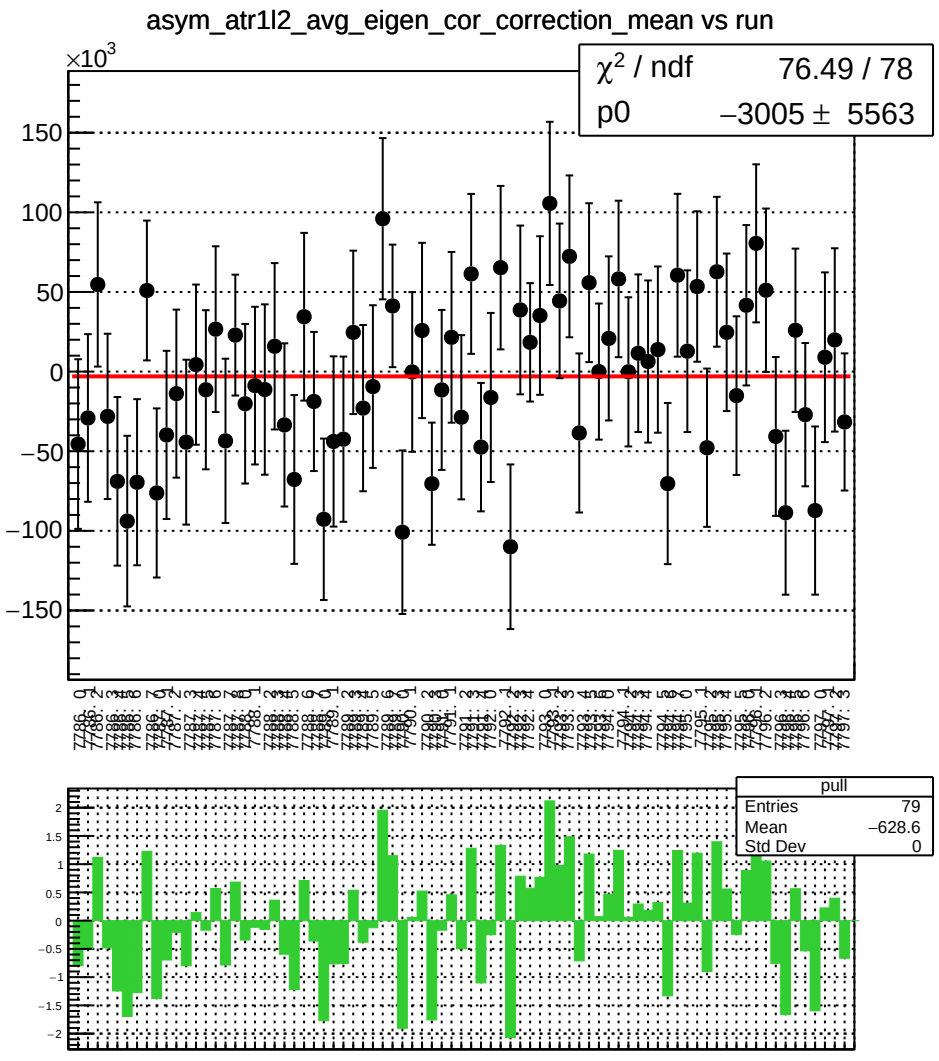

pull1D
Entries 79
Mean −0.007735
Std Dev 0.9839
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

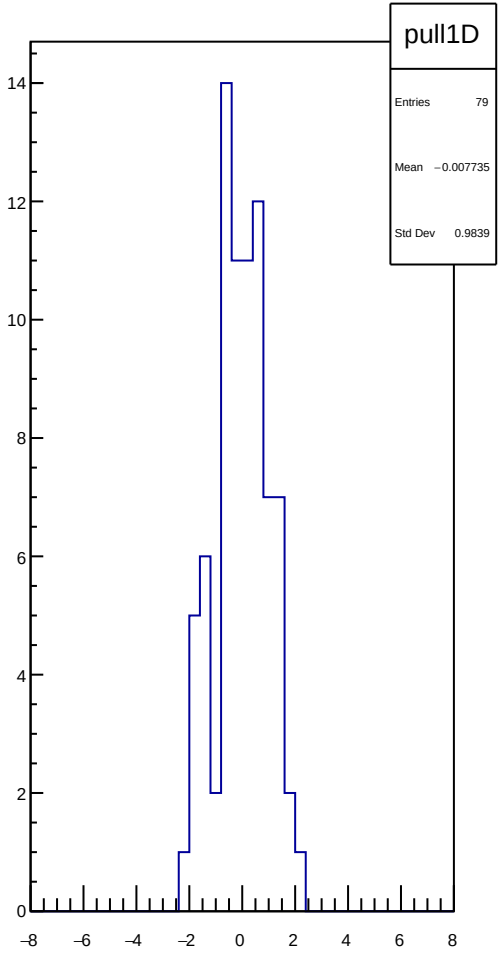

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1618 / 78
p0 4869 ± 3.934
5600
5400
5200
5000
4800
4600
4400

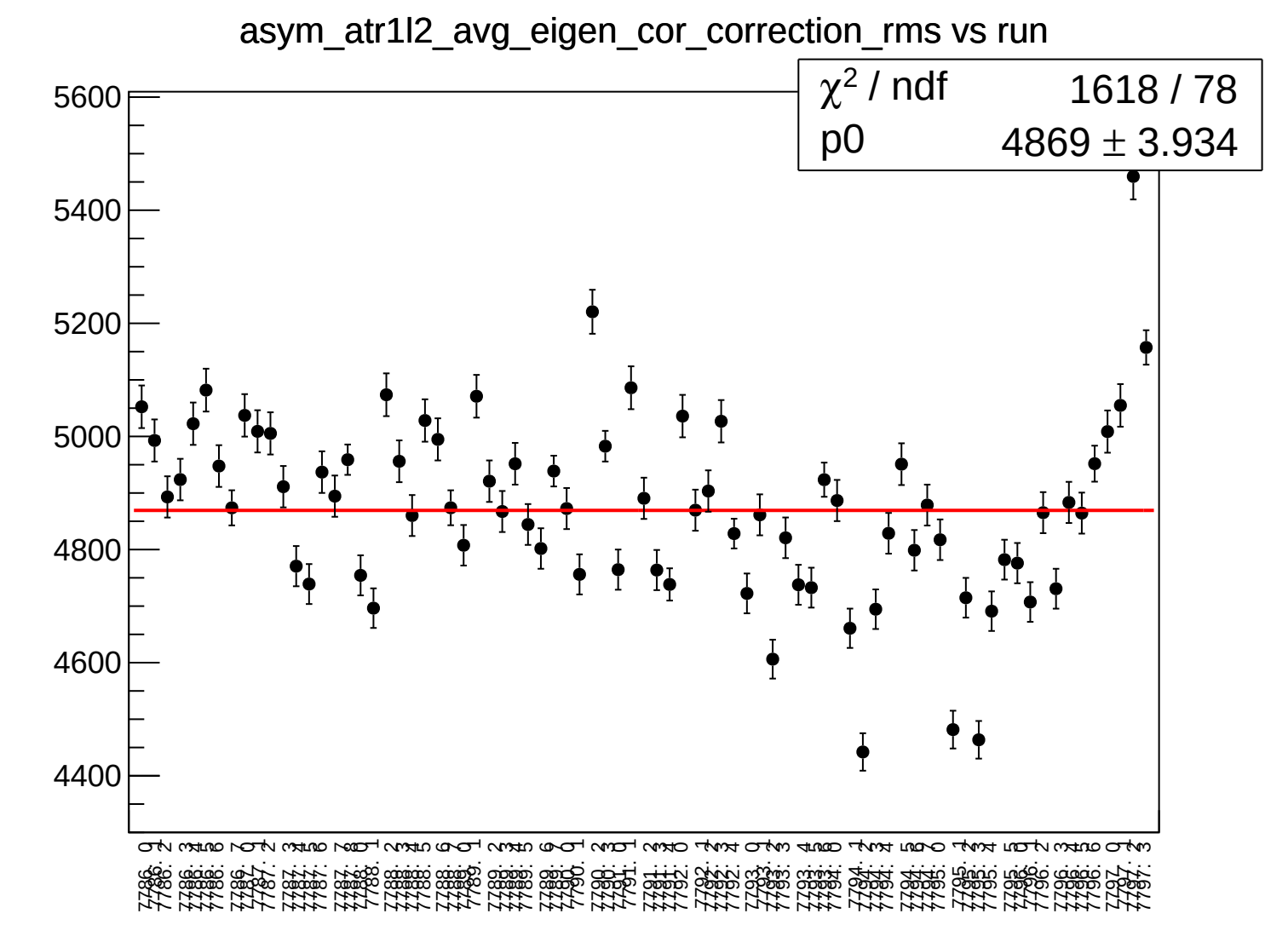

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 73.15 / 78
p0 −3214 ± 2034
pull
Entries 79
Mean 192.3
Std Dev 0

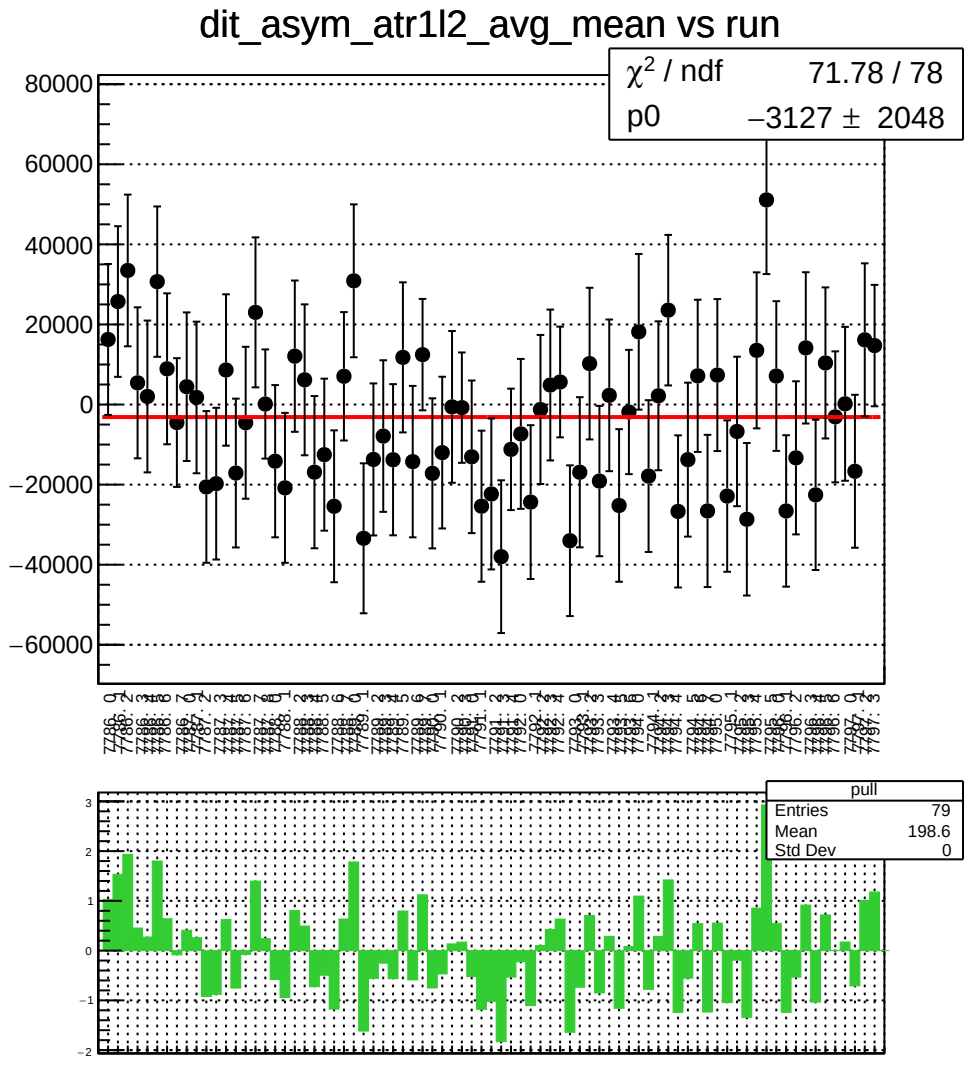

pull1D
Entries 79
Mean −0.01503
Std Dev 0.9622

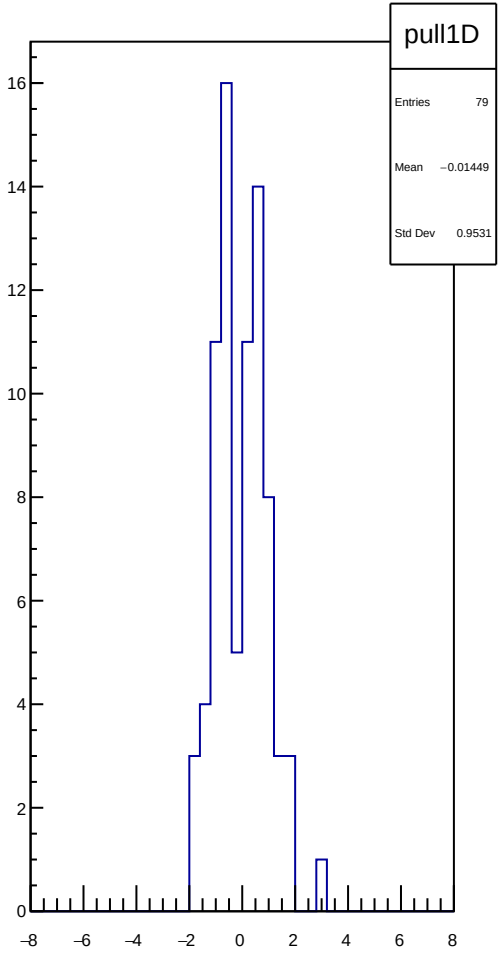

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 109.2 / 78
p0 1782 ± 1.438
1860
1840
1820
1800
1780
1760
1740

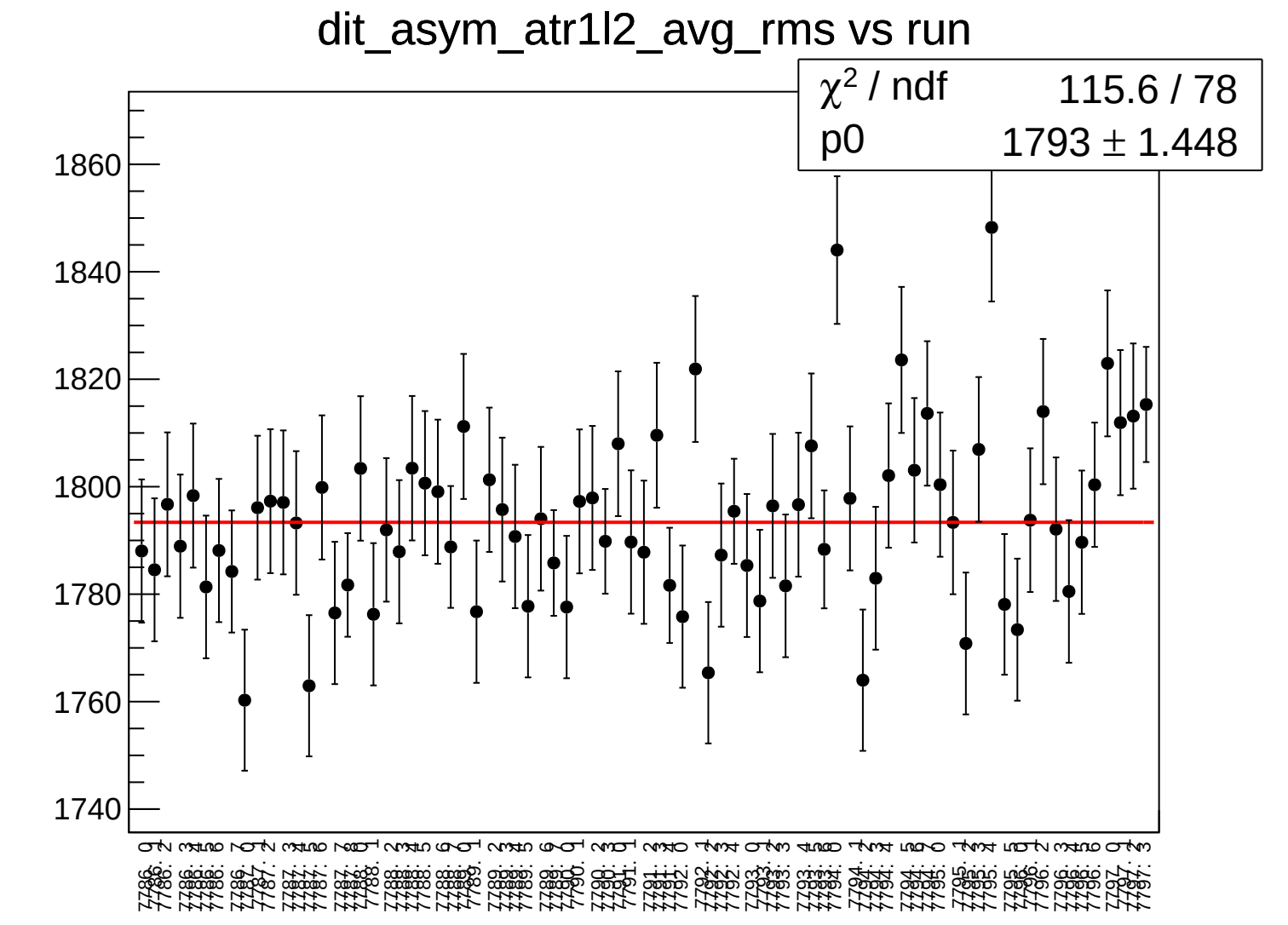

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.49 / 78
p0 −3005 ± 5563
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −628.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

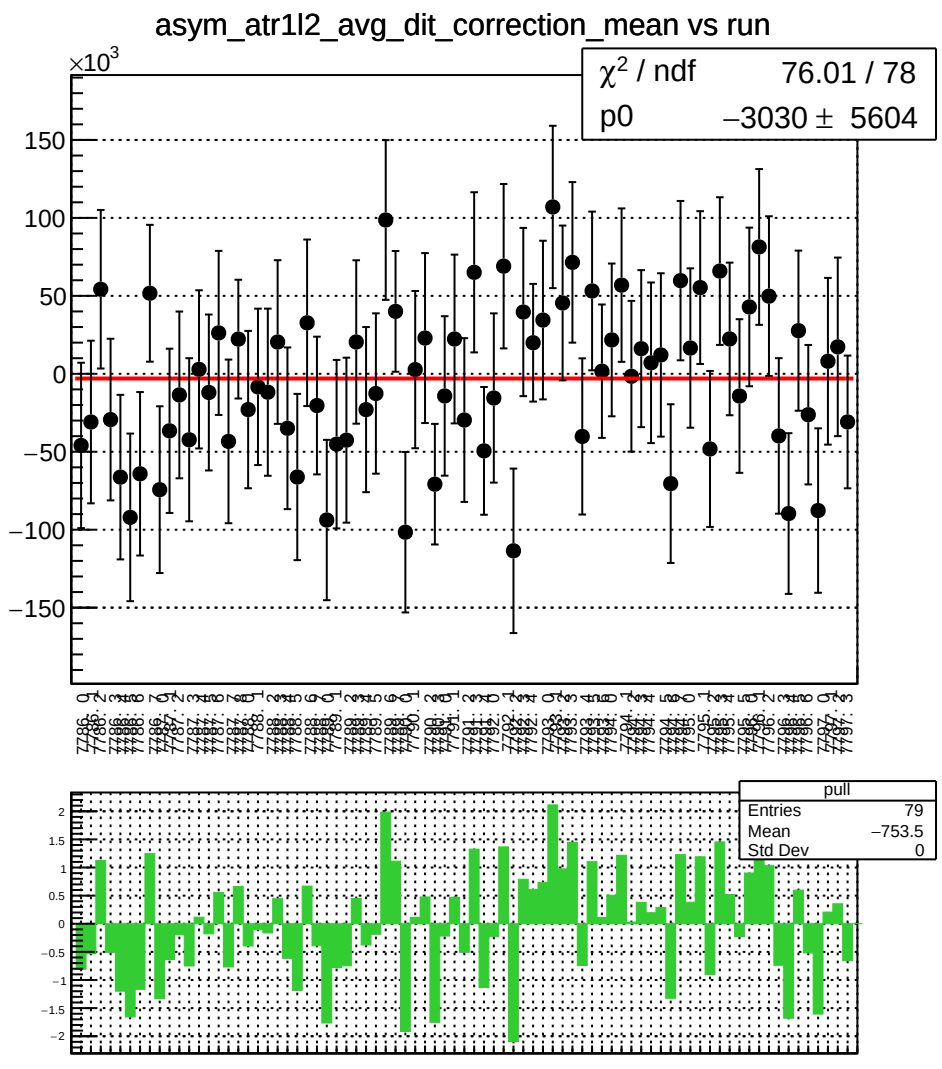

pull1D
Entries 79
Mean −0.007735
Std Dev 0.9839
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

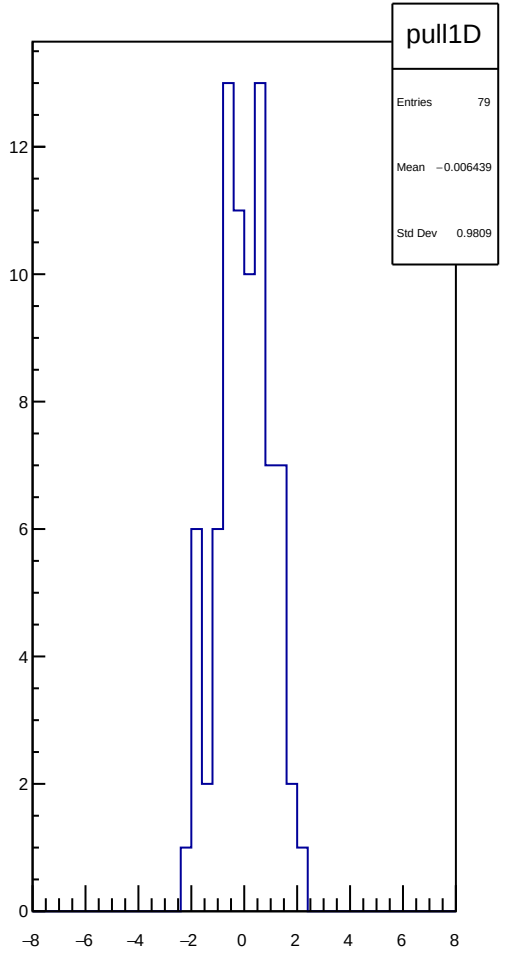

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1618 / 78
p0 4869 ± 3.934
5600
5400
5200
5000
4800
4600
4400

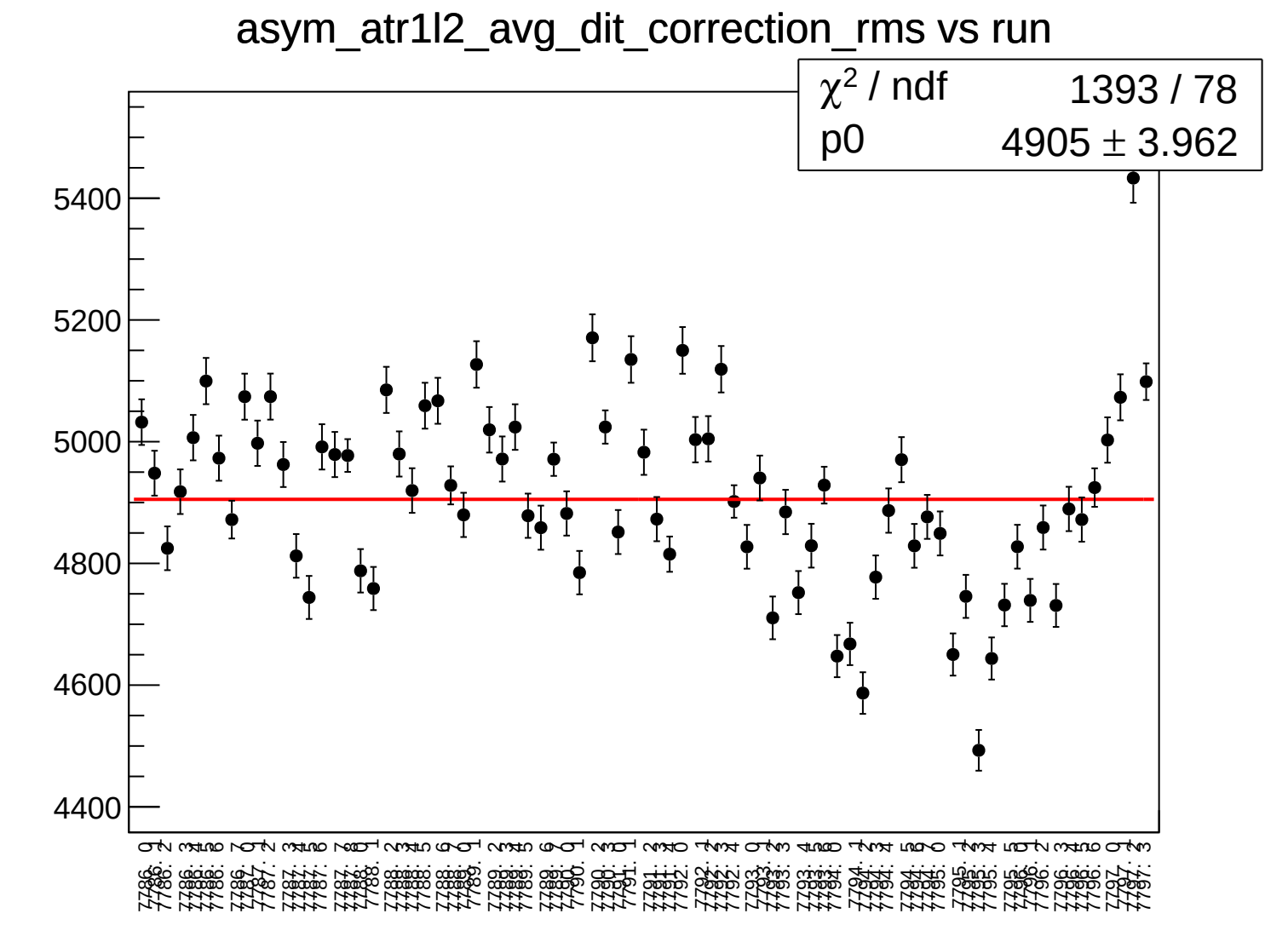

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 71.78 / 78
p0 −3127 ± 2048
pull
Entries 79
Mean 198.6
Std Dev 0

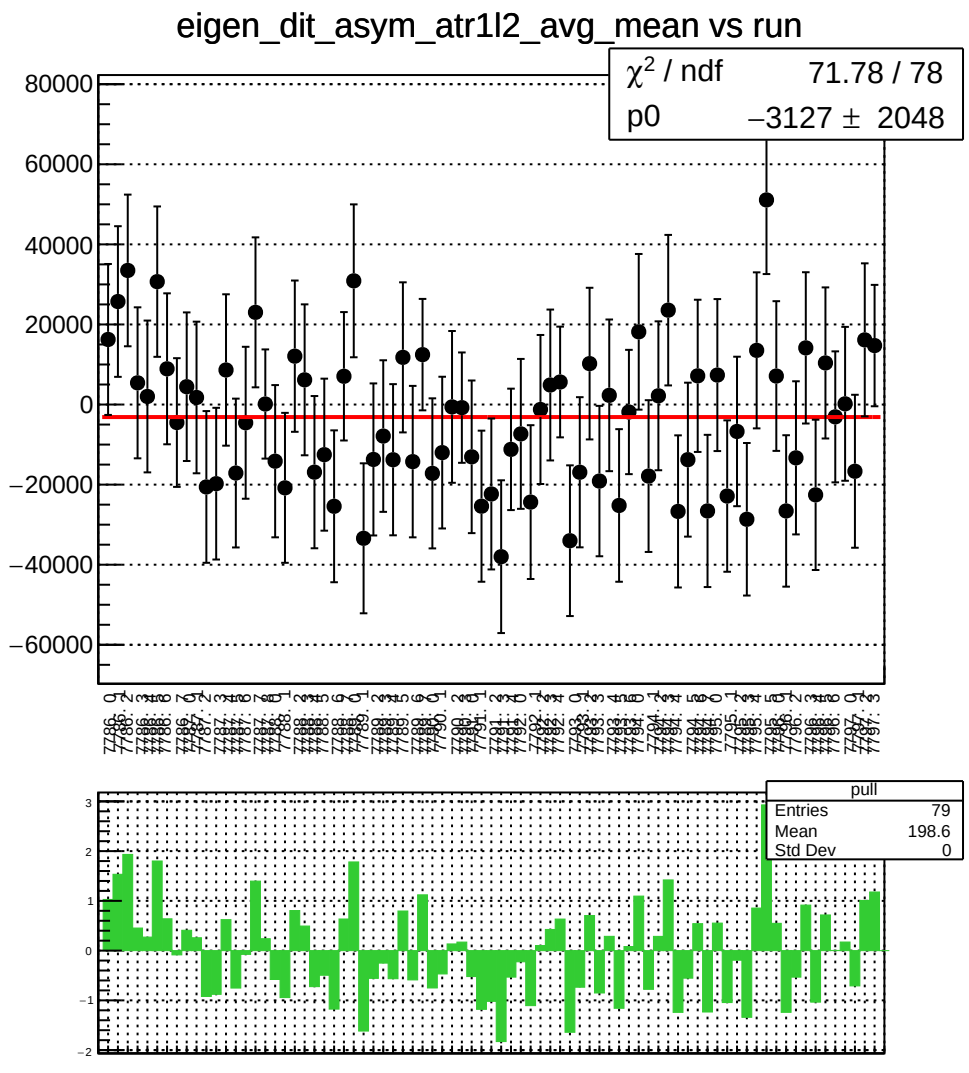

pull1D
Entries 79
Mean −0.01449
Std Dev 0.9531

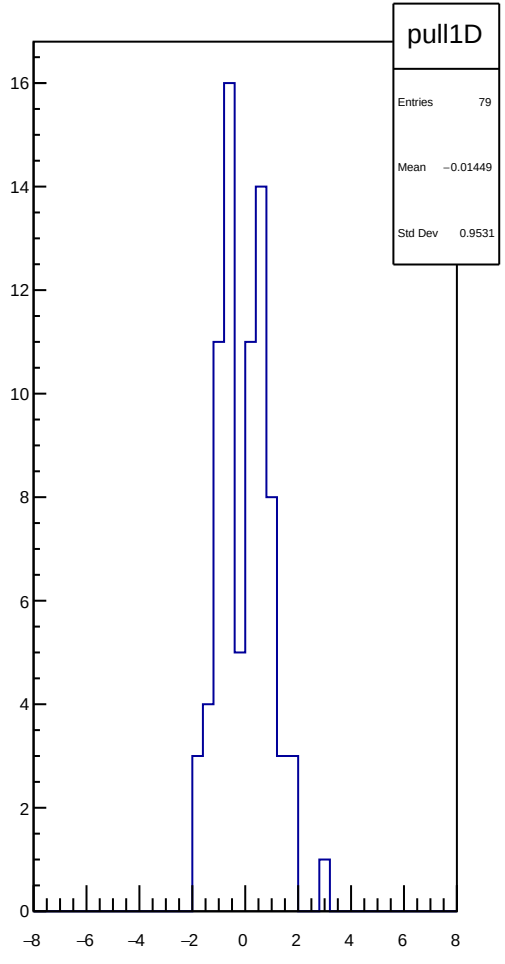

dit_asym_atr1l2_avg_rms vs run
χ^2 / ndf 115.6 / 78
p0 1793 ± 1.448
1860
1840
1820
1800
1780
1760
1740

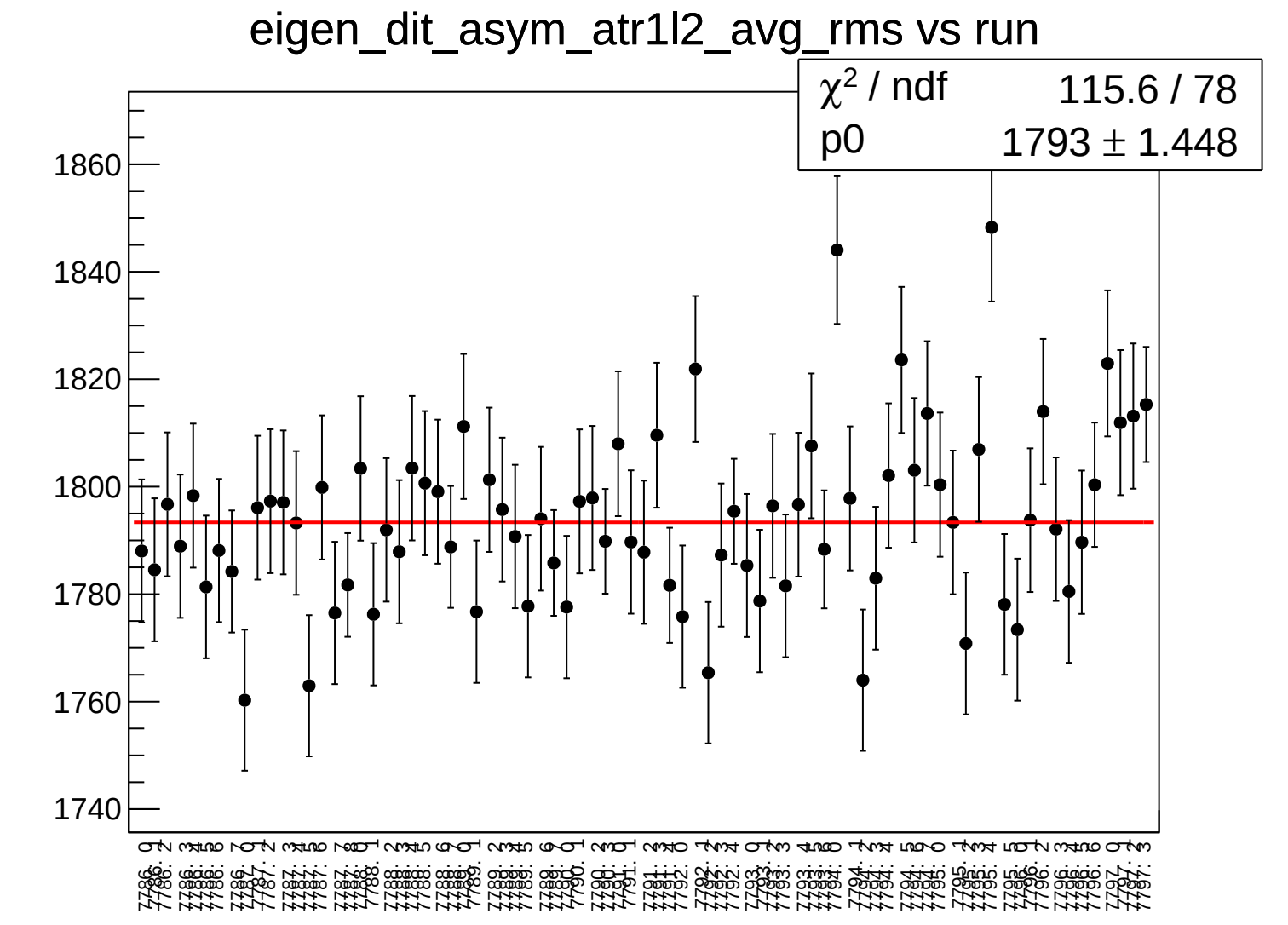

asym_atr1l2_avg_dit_correction_mean vs run
χ² / ndf 76.01 / 78
p0 −3030 ± 5604
×10³
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −753.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

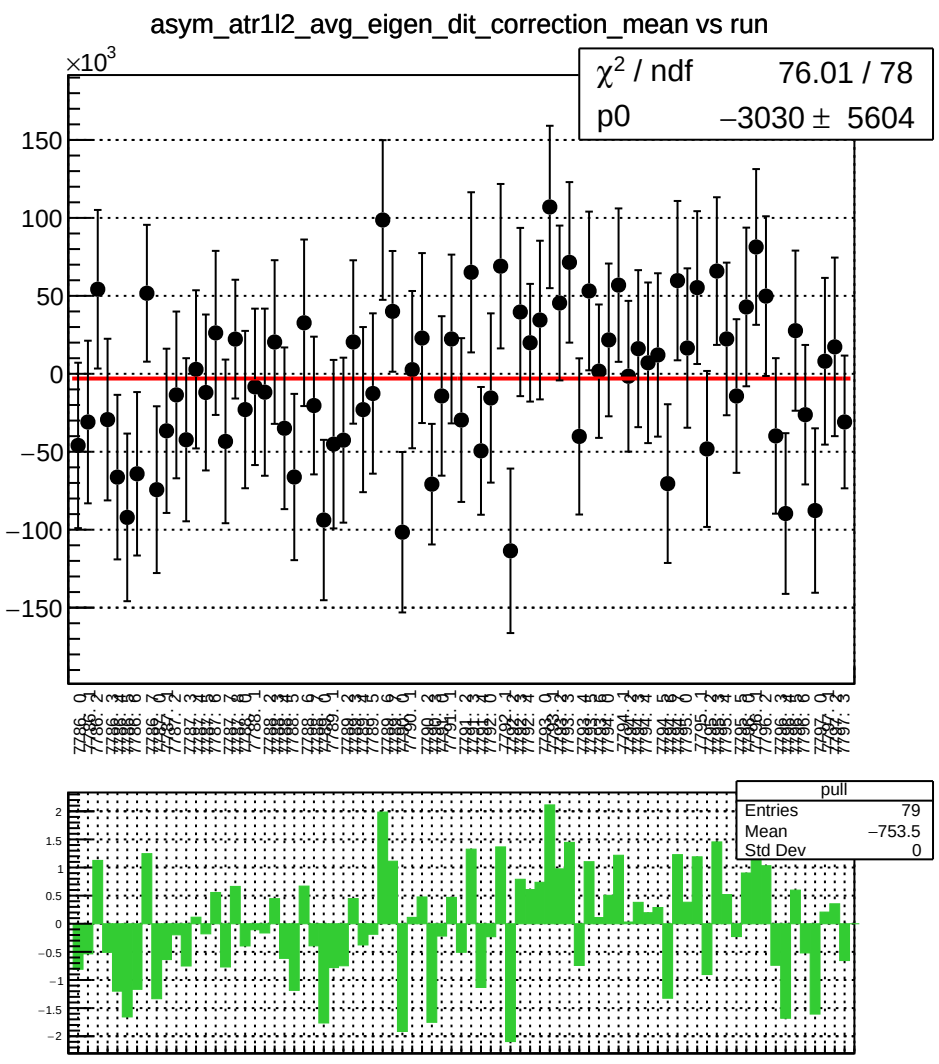

pull1D
Entries 79
Mean −0.006439
Std Dev 0.9809
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

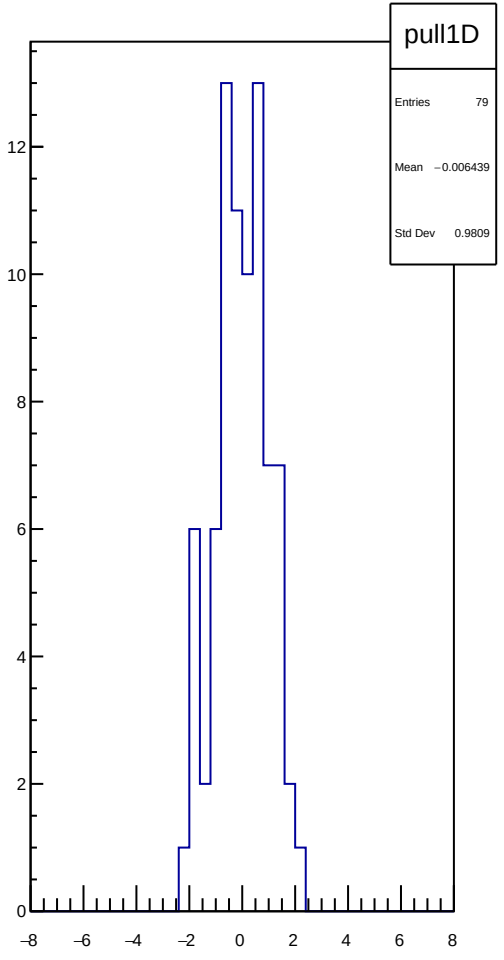

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1393 / 78
p0 4905 ± 3.962
5400
5200
5000
4800
4600
4400

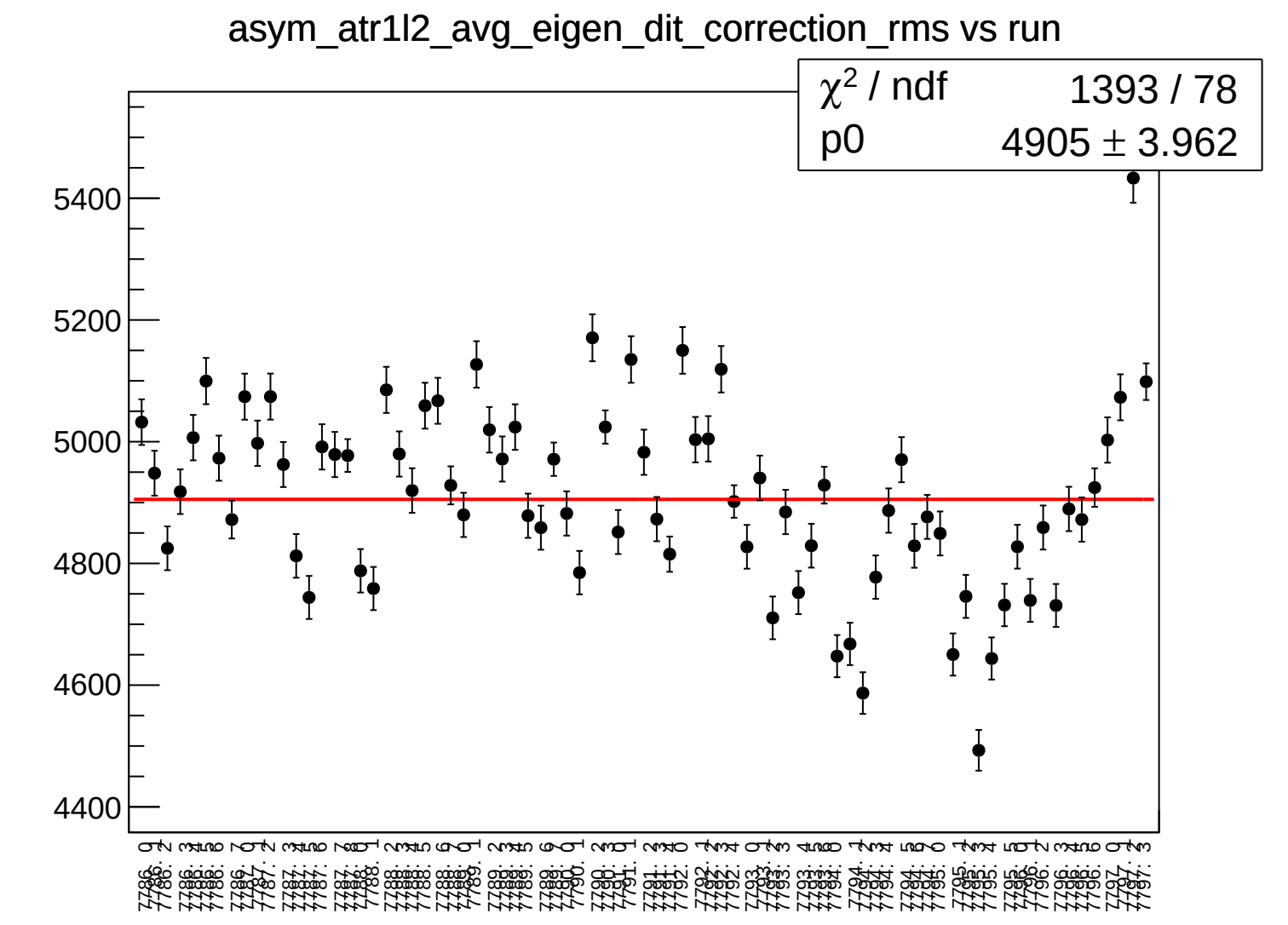

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 71.78 / 78
p0 −3127 ± 2048
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 198.6
Std Dev 0
3
2
1
0
−1
−2

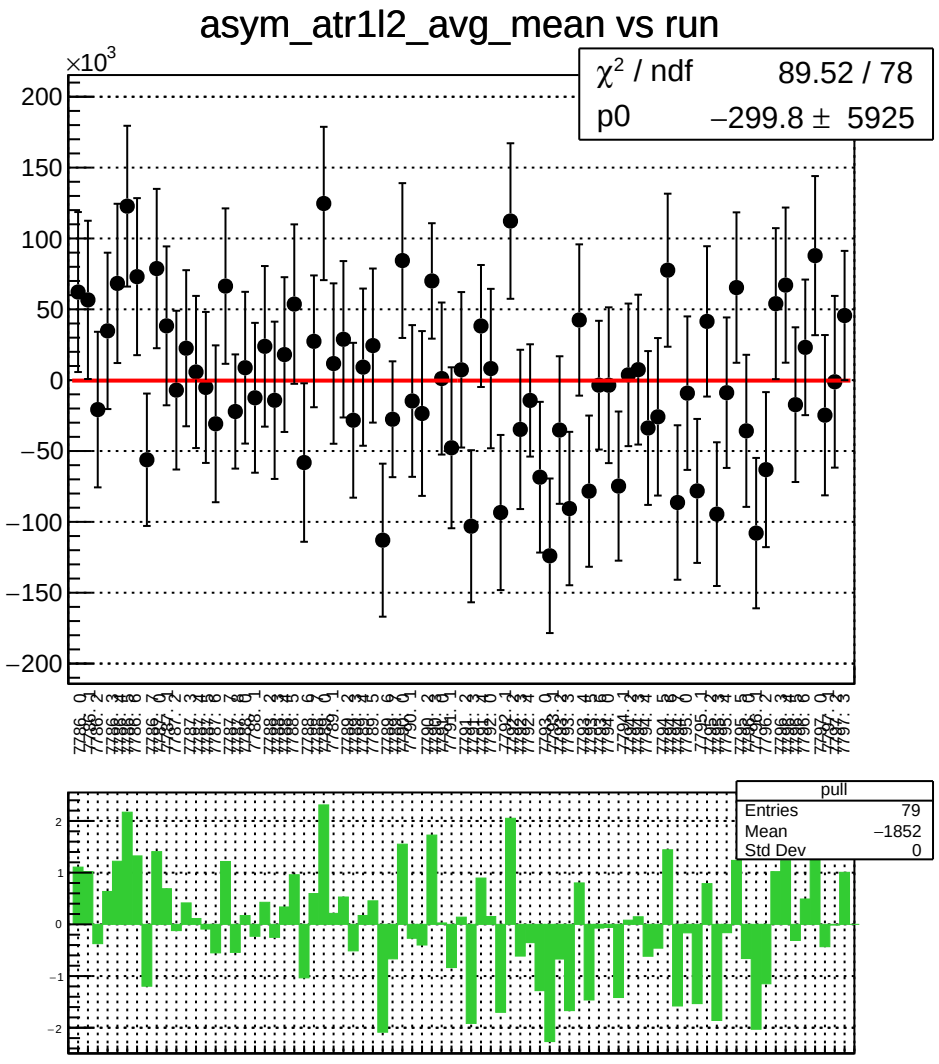

pull1D
Entries 79
Mean −0.01449
Std Dev 0.9531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

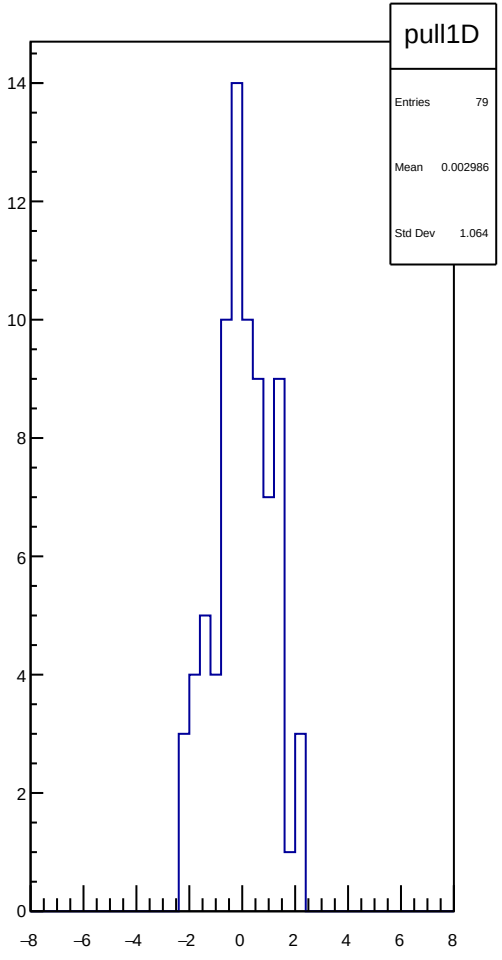

eigen_dit_asym_atr1l2_avg_rms vs run
χ^2 / ndf 115.6 / 78
p0 1793 ± 1.448
1860
1840
1820
1800
1780
1760
1740

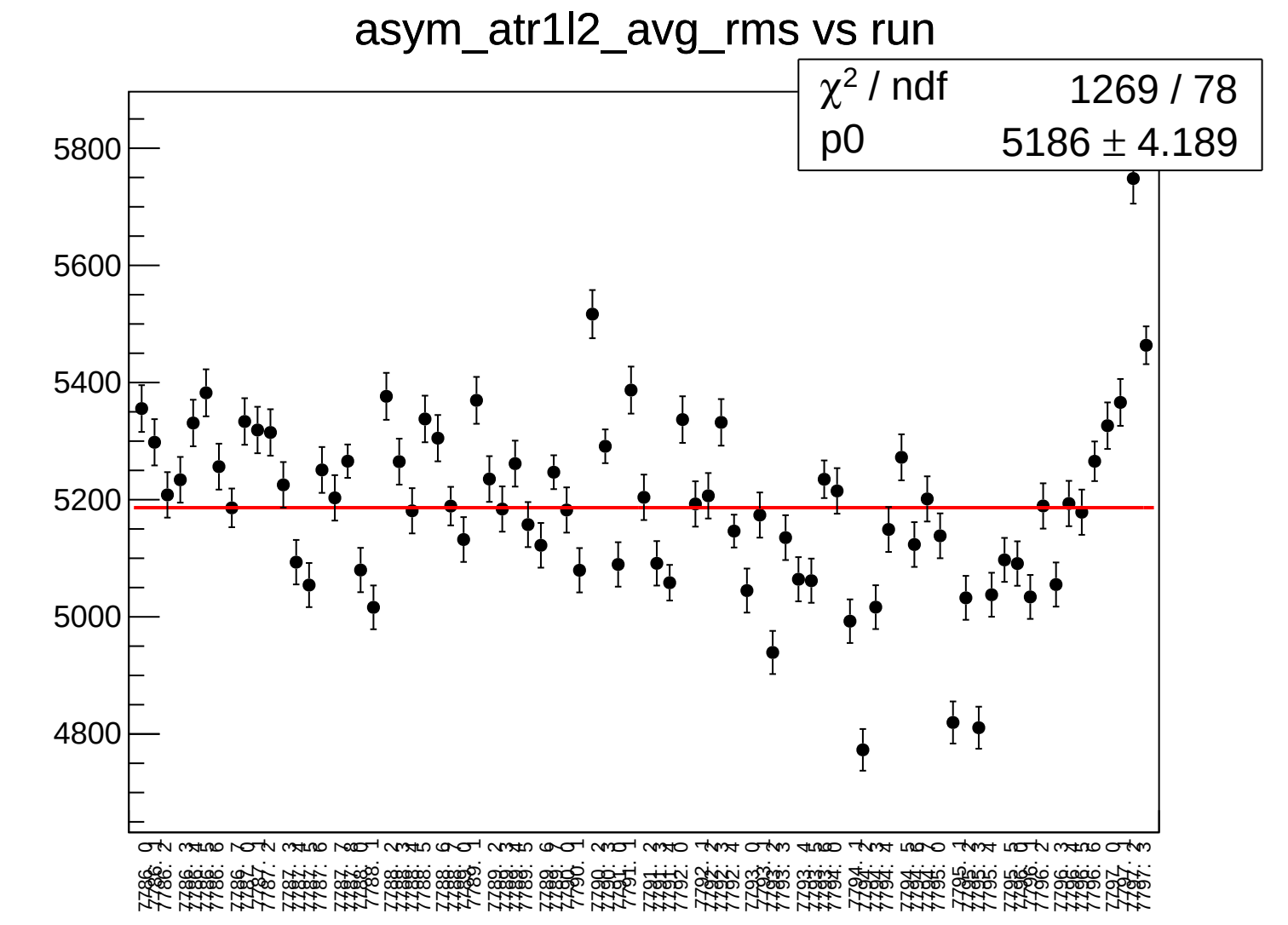

asym_atr1l2_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.01 / 78
p0 −3030 ± 5604
pull
Entries 79
Mean −753.5
Std Dev 0

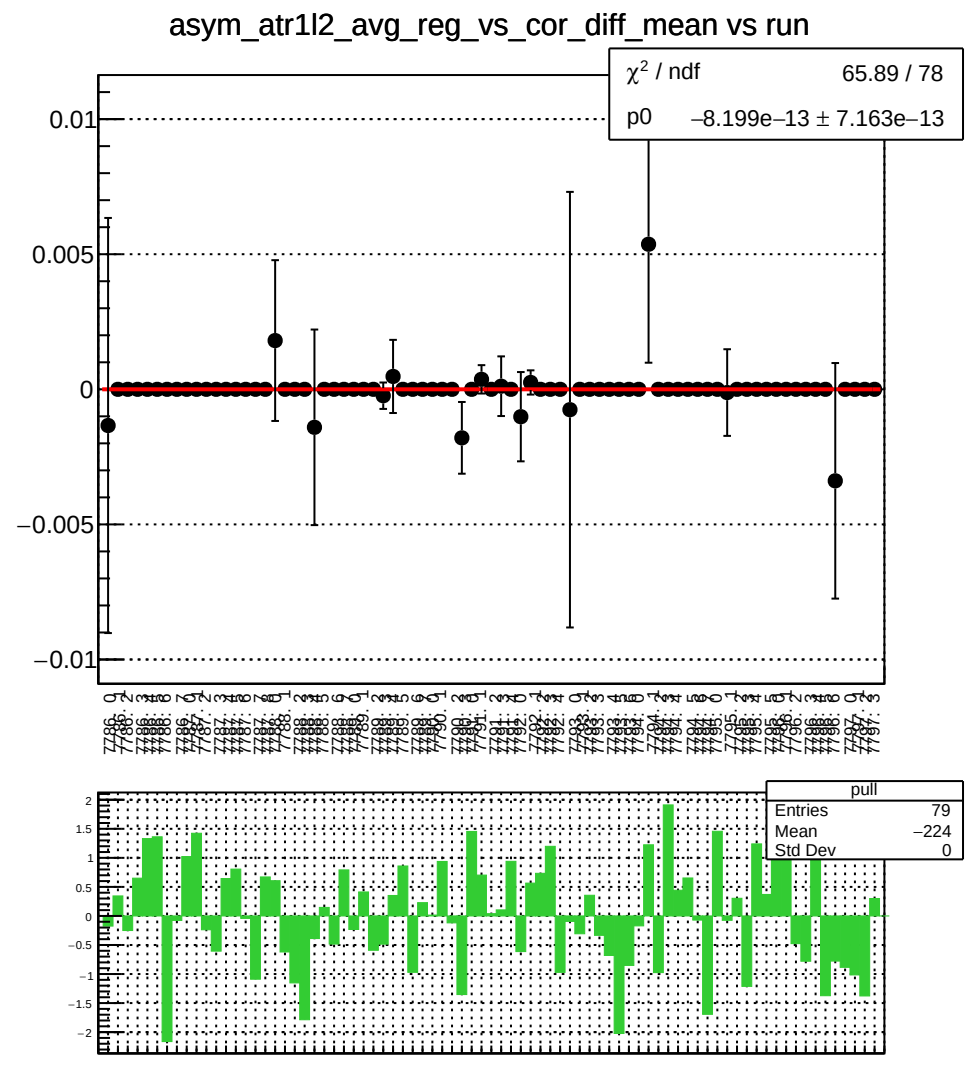

pull1D
Entries 79
Mean −0.006439
Std Dev 0.9809

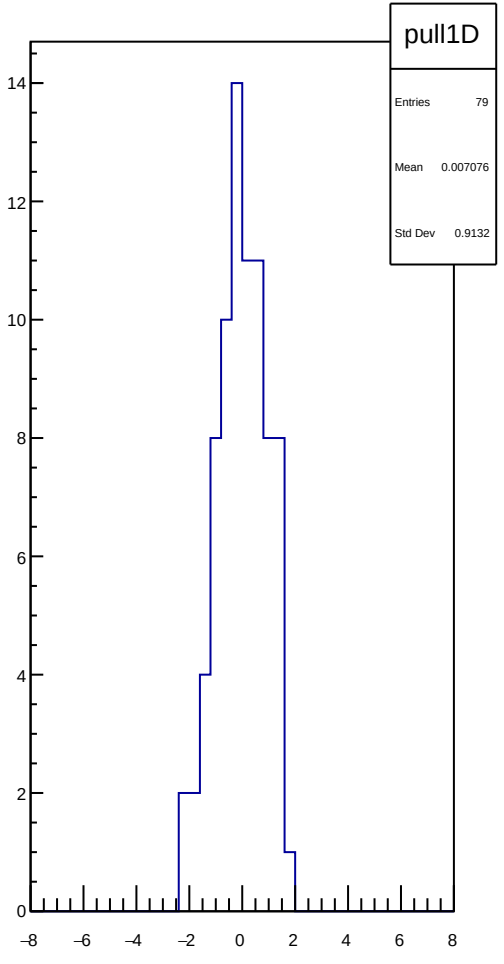

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1393 / 78
p0 4905 ± 3.962
5400
5200
5000
4800
4600
4400

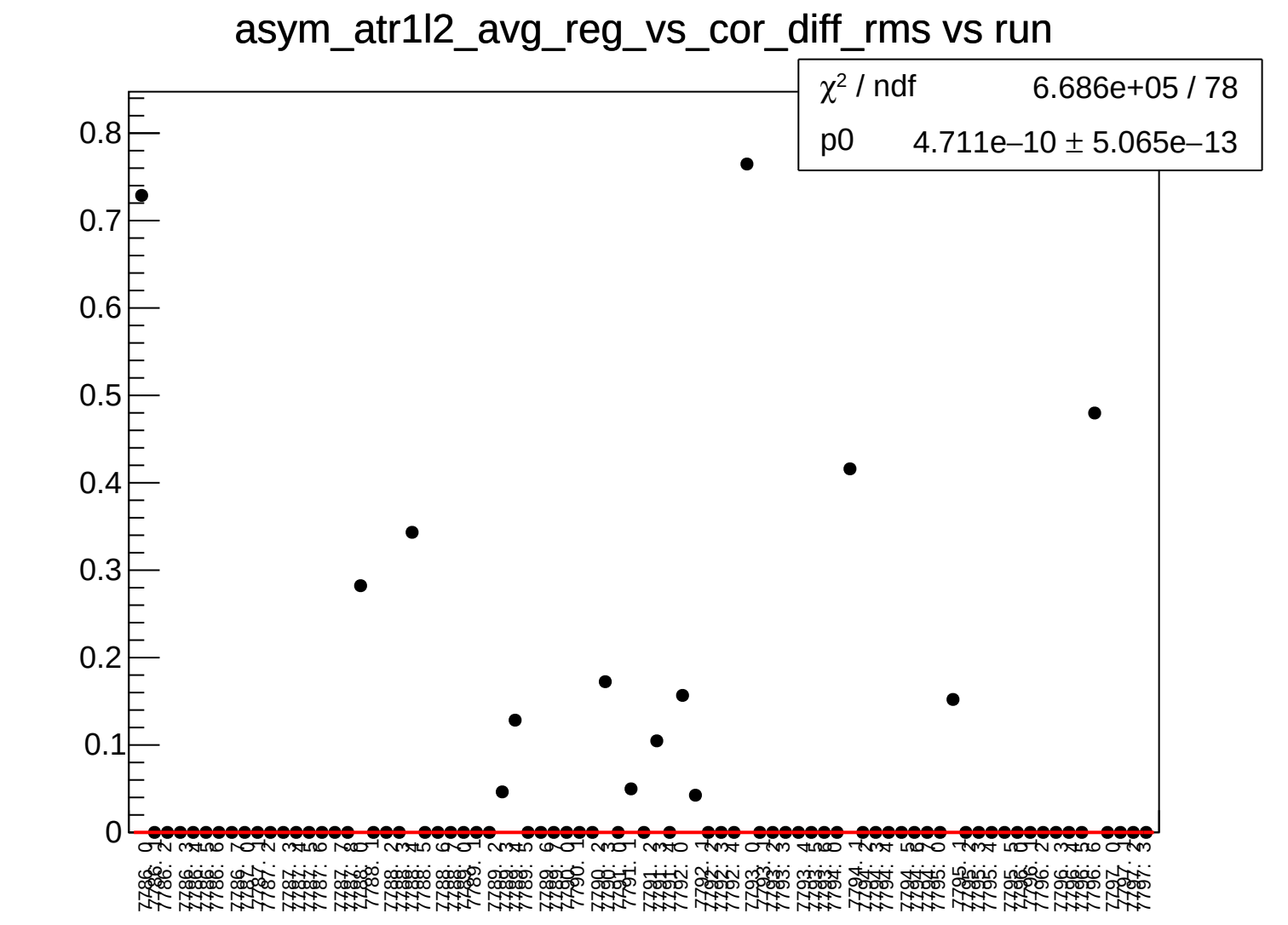

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 89.52 / 78
p0 −299.8 ± 5925
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 79
Mean −1852
Std Dev 0
2
1
0
−1
−2

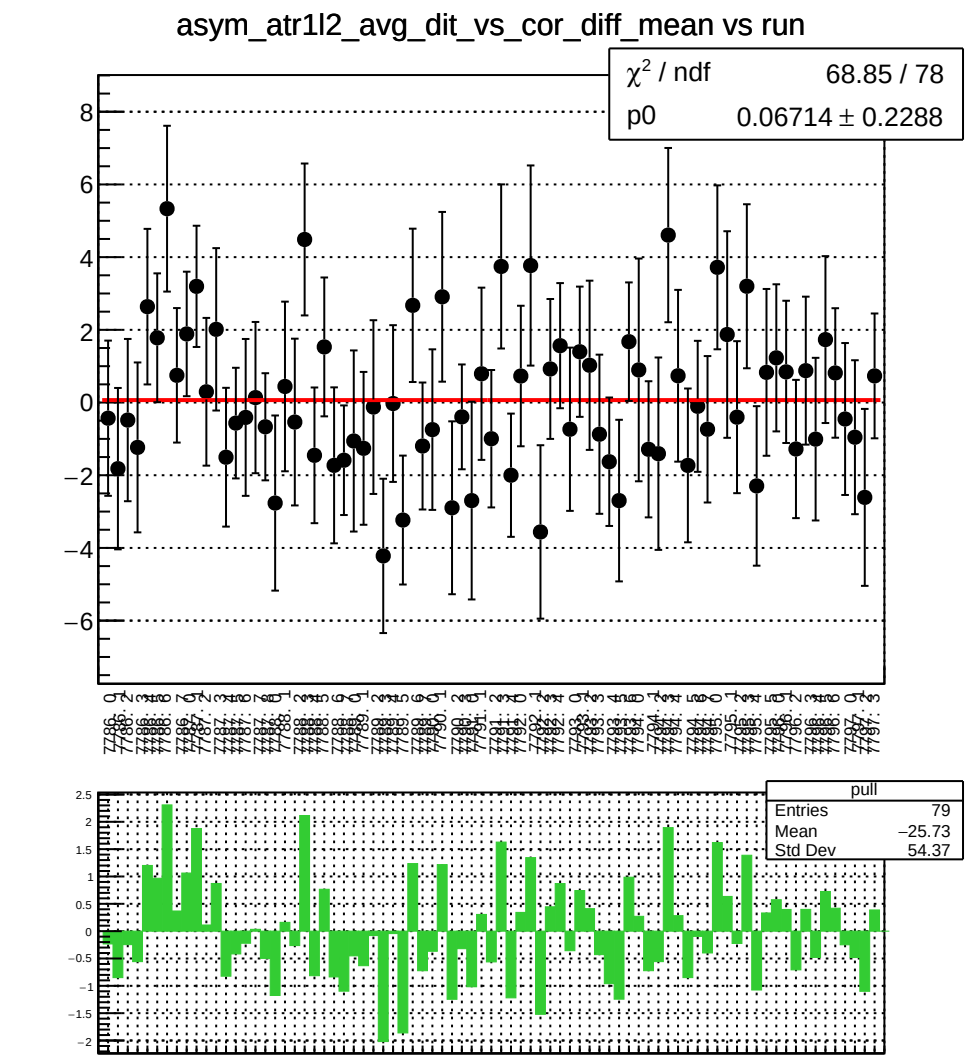

pull1D
Entries 79
Mean 0.002986
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

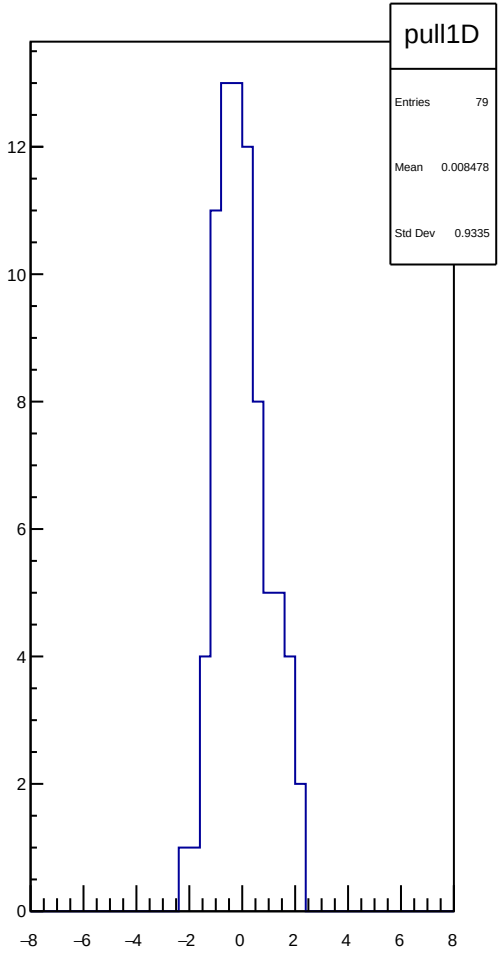

asym_atr1l2_avg_rms vs run
χ^2 / ndf 1269 / 78
p0 5186 ± 4.189
5800
5600
5400
5200
5000
4800

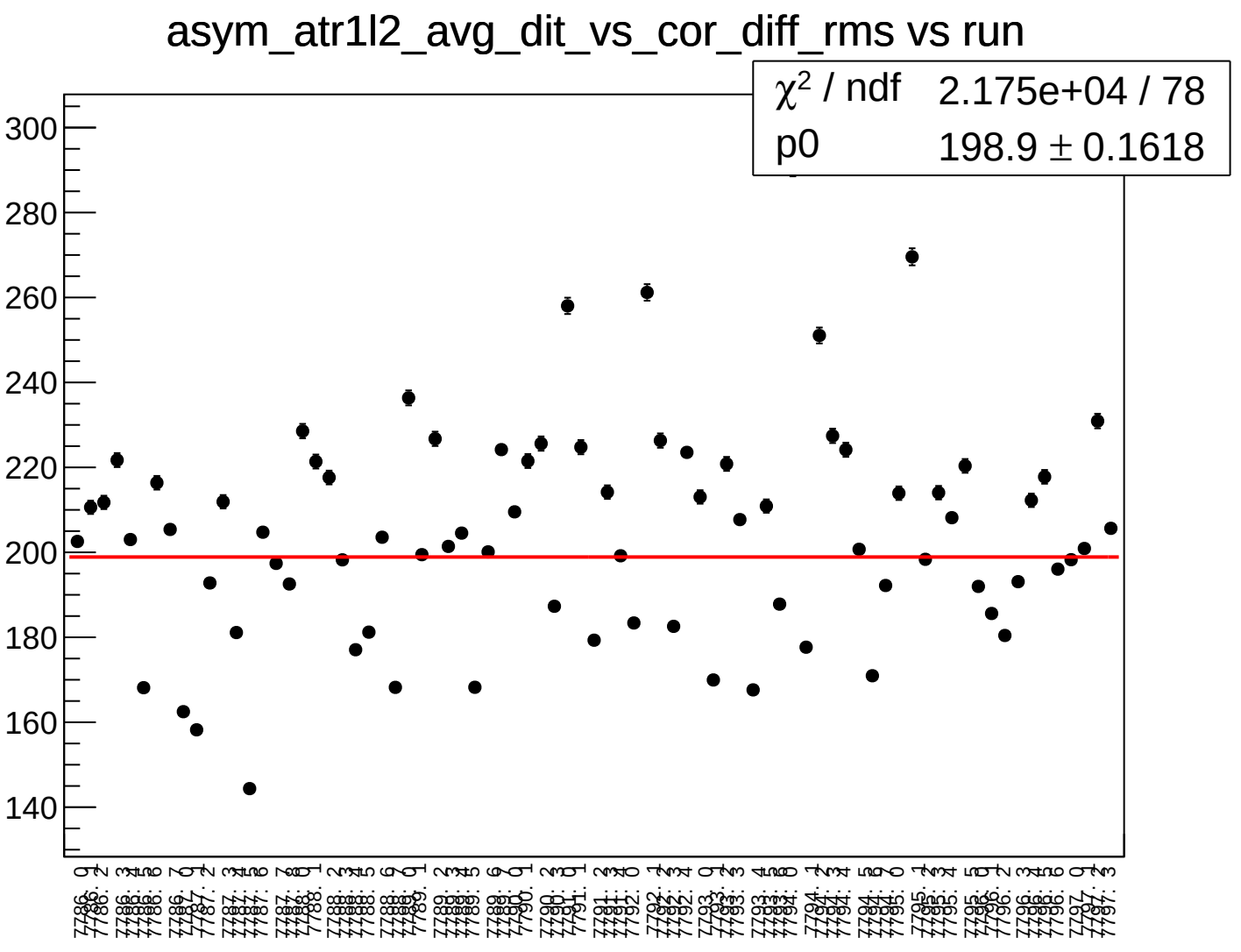

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.89 / 78
p0 −8.199e−13 ± 7.163e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 79
Mean −224
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 79
Mean 0.007076
Std Dev 0.9132
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

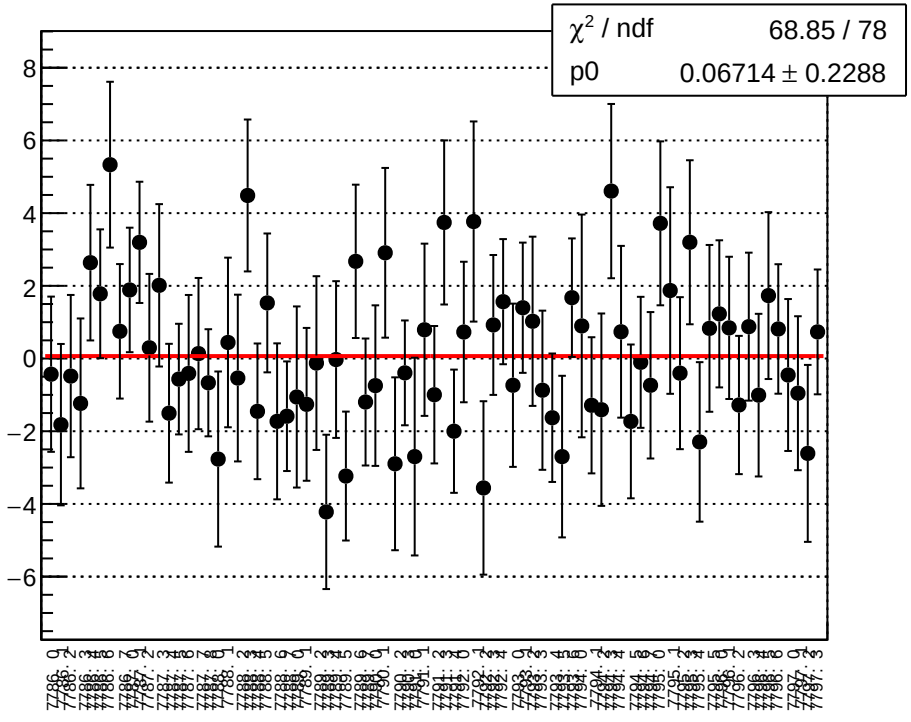

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.686e+05 / 78
p0 4.711e−10 ± 5.065e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

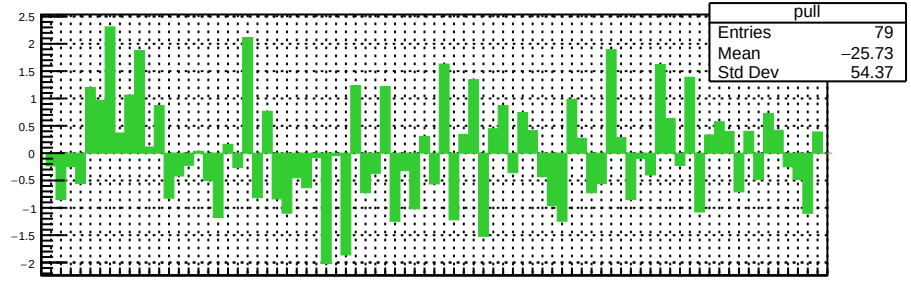

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.85 / 78
p0 0.06714 ± 0.2288
pull
Entries 79
Mean −25.73
Std Dev 54.37

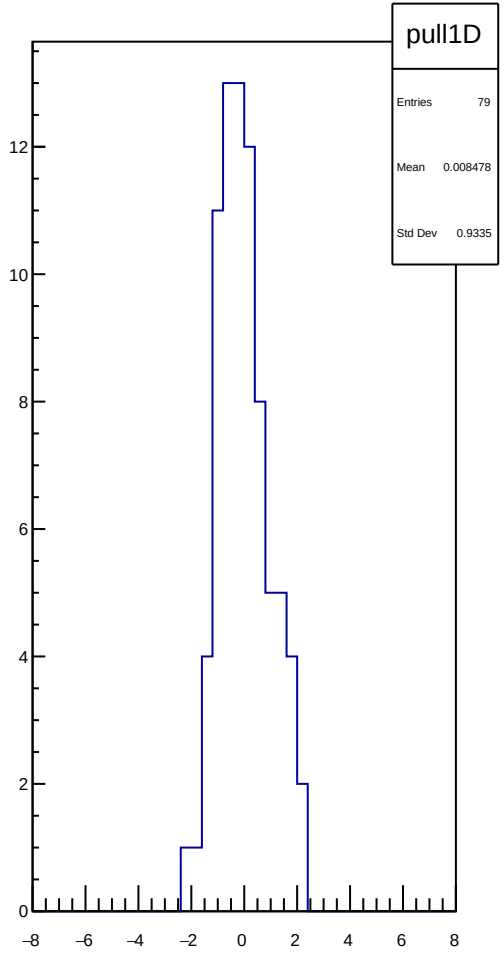

pull1D
Entries 79
Mean 0.008478
Std Dev 0.9335

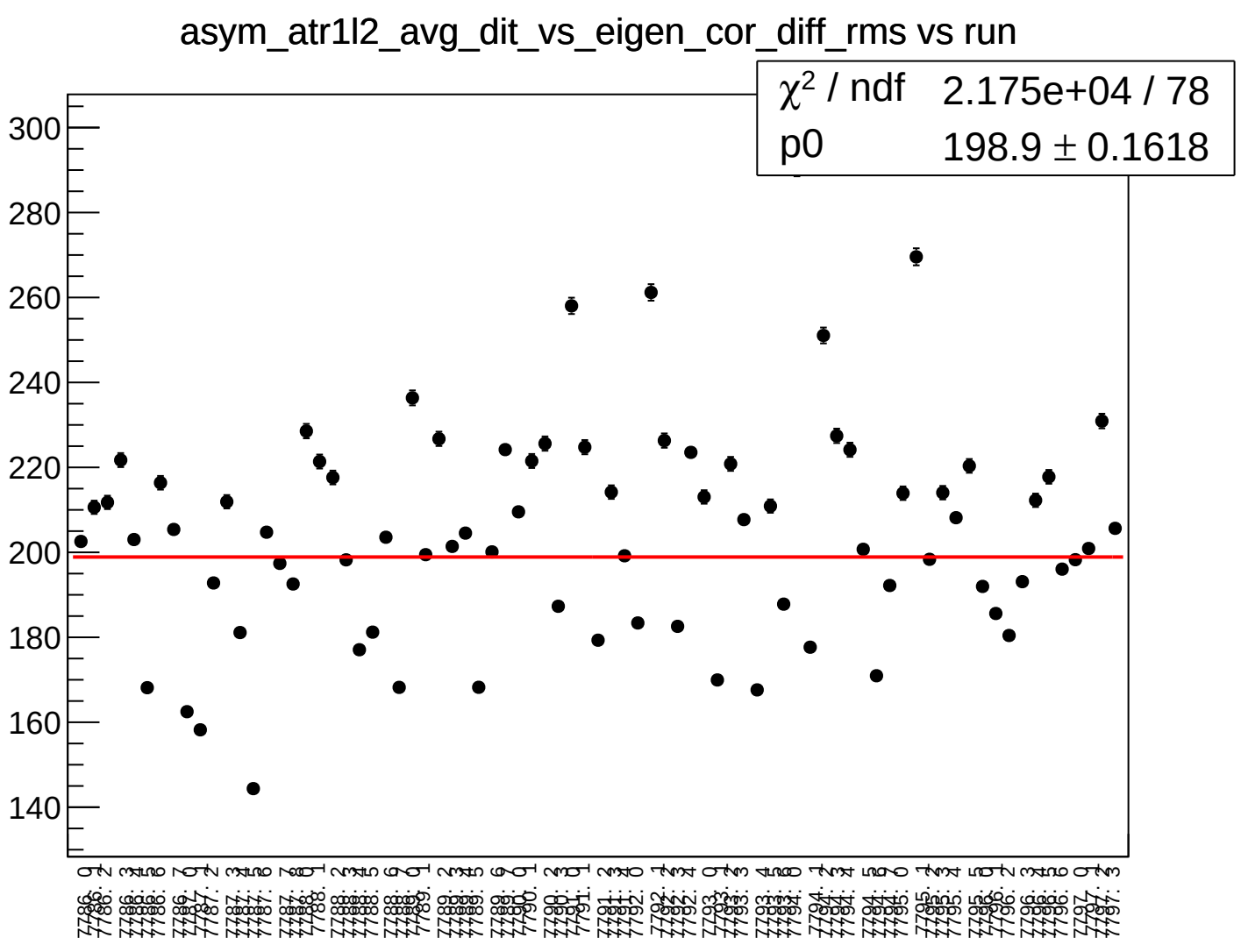

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.175e+04 / 78
p0 198.9 ± 0.1618
300
280
260
240
220
200
180
160
140

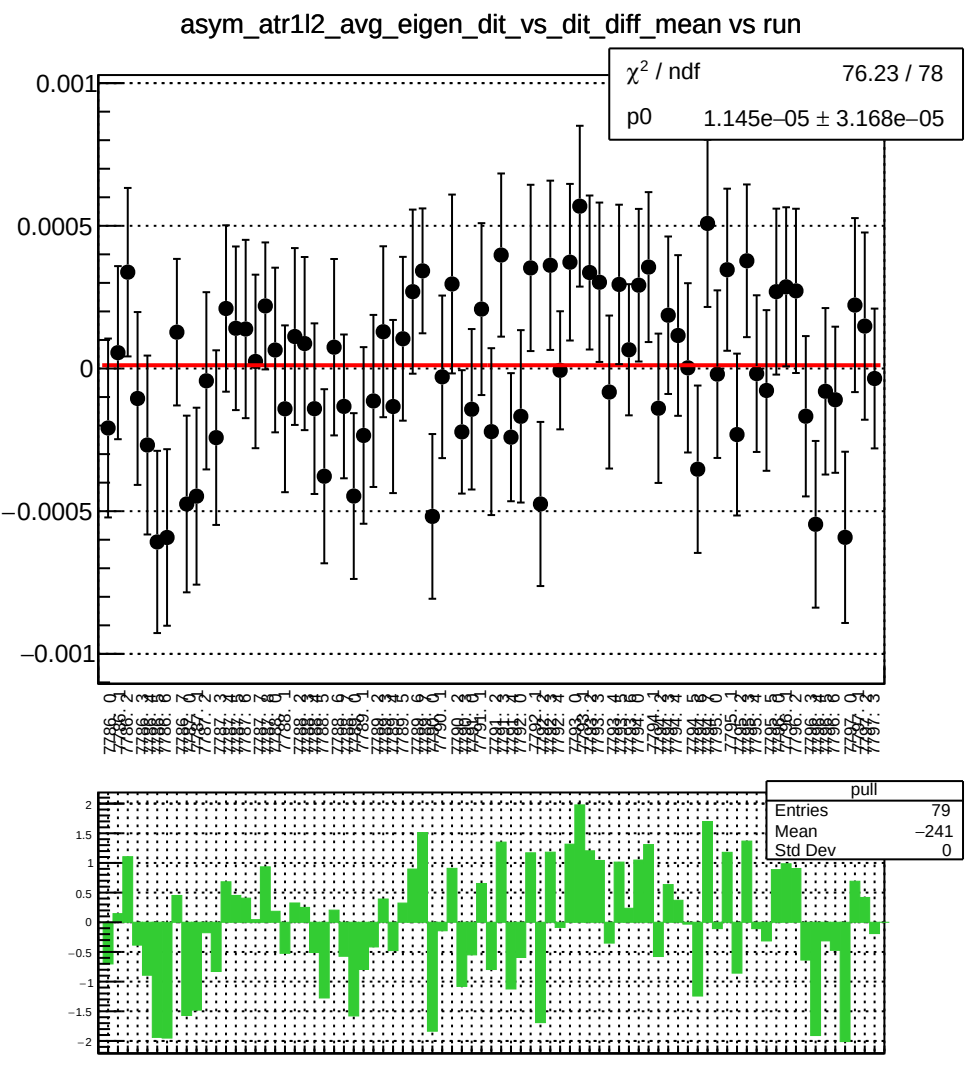
asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run

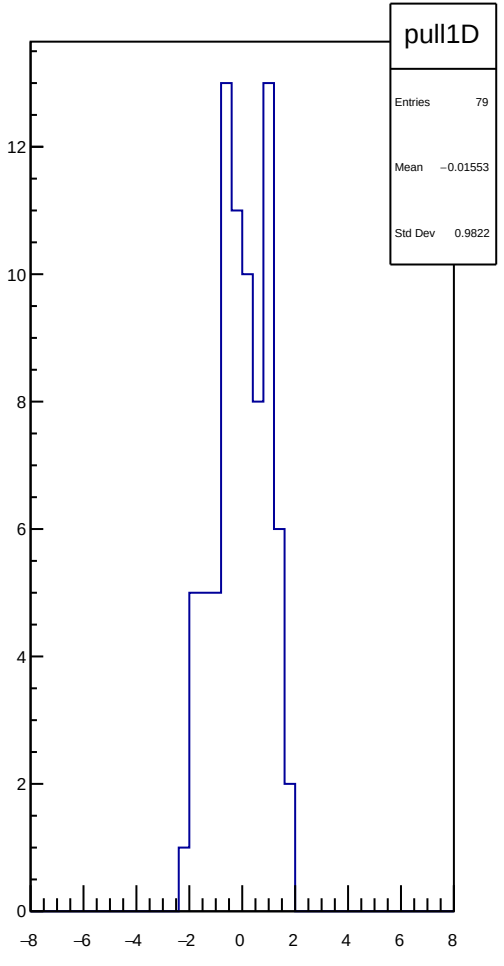


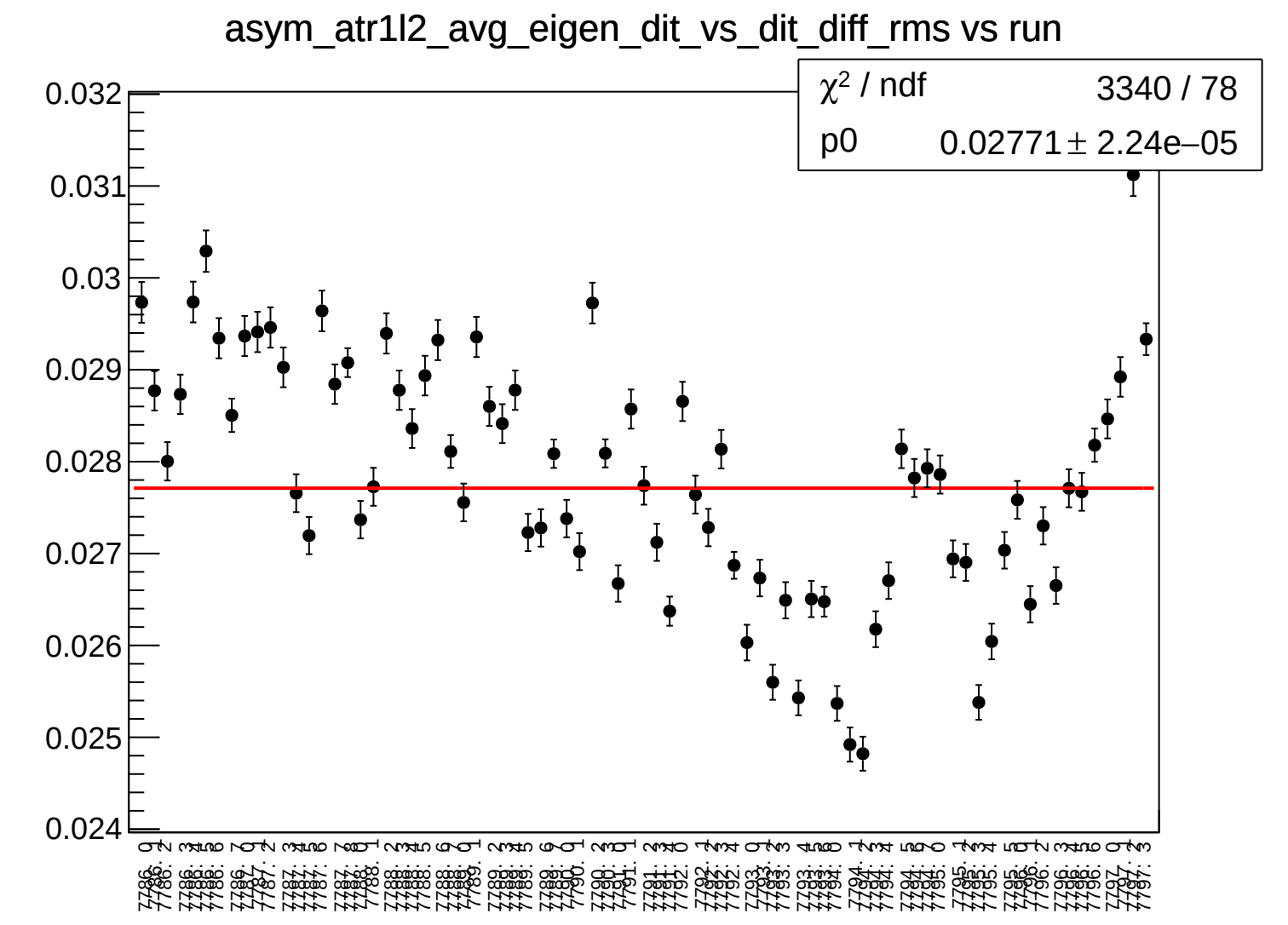




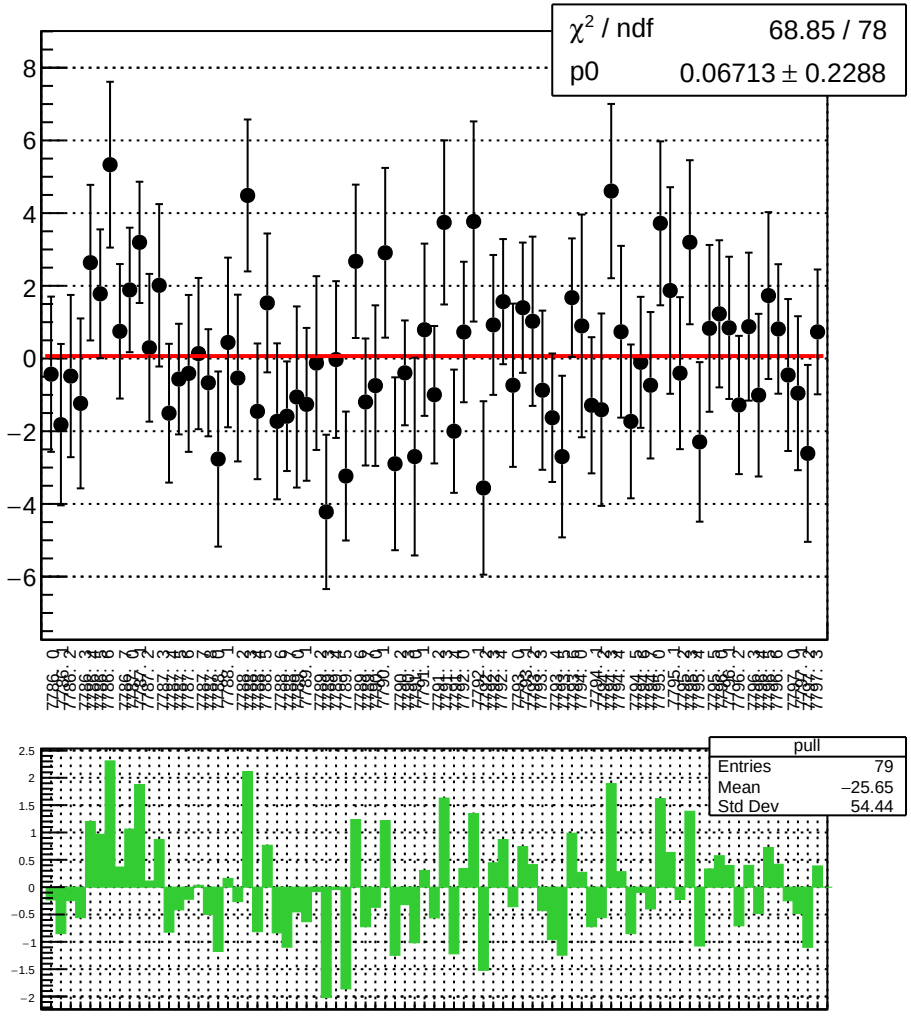

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.175e+04 / 78
p0 198.9 ± 0.1618
300
280
260
240
220
200
180
160
140

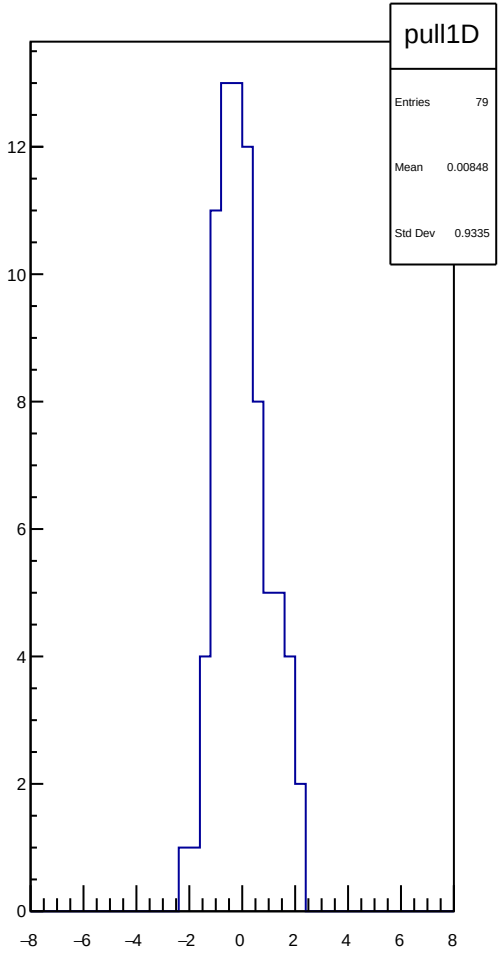

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.23 / 78
p0 1.145e−05 ± 3.168e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 79
Mean −241
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

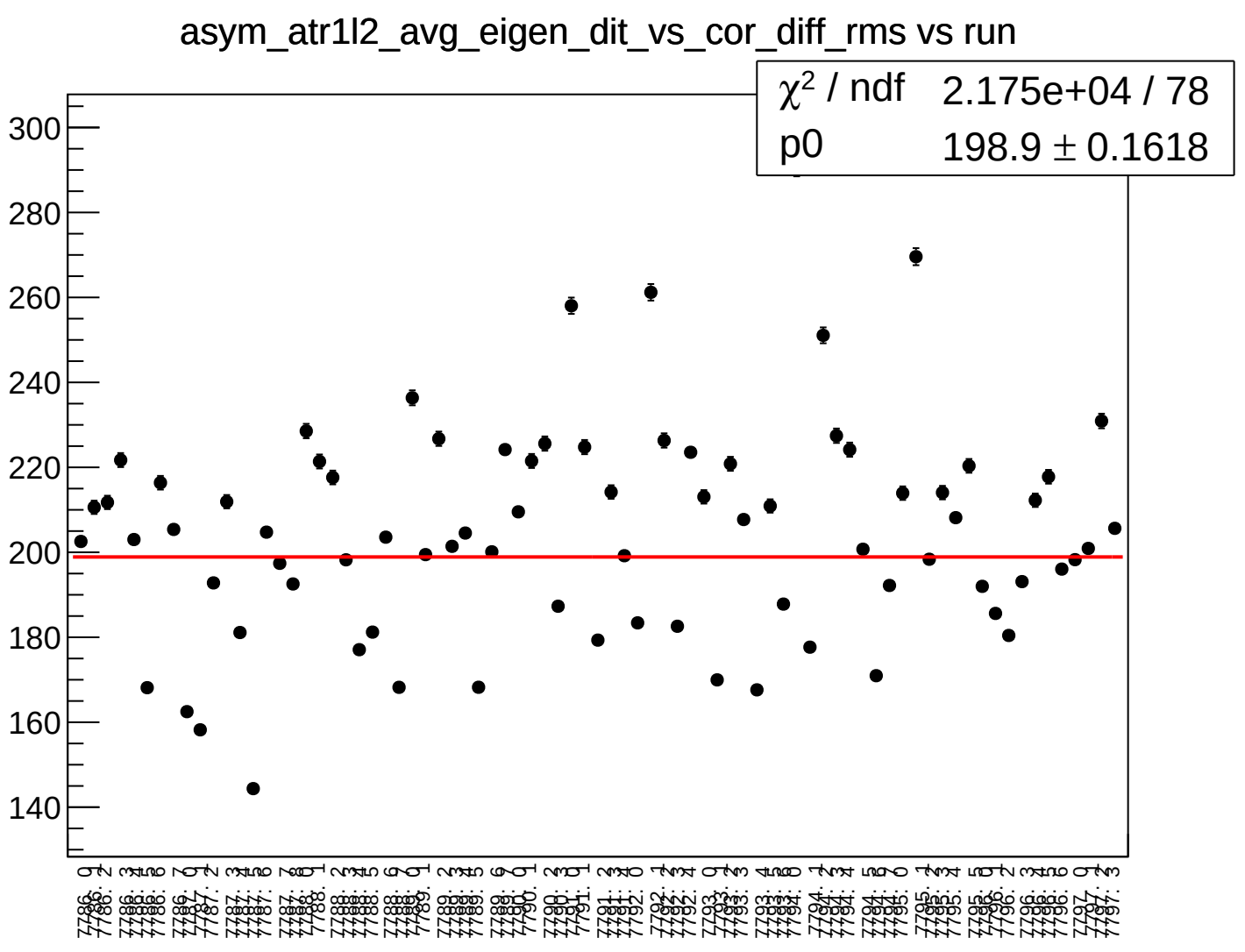

pull1D
Entries 79
Mean −0.01553
Std Dev 0.9822
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3340 / 78
p0 0.02771 ± 2.24e−05
0.032
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024

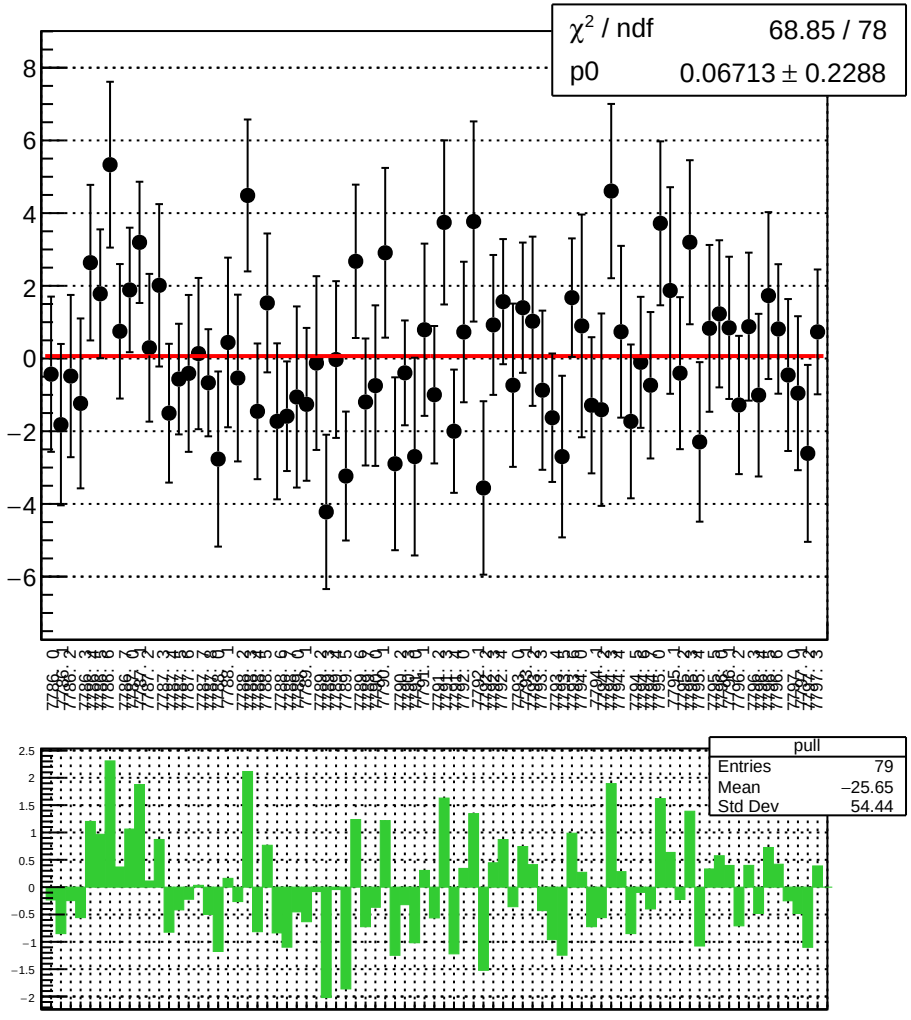
asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run

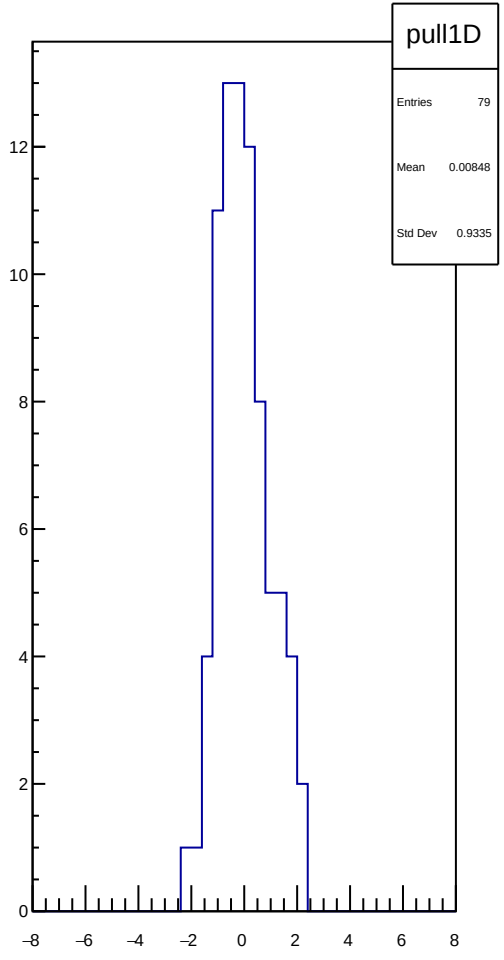


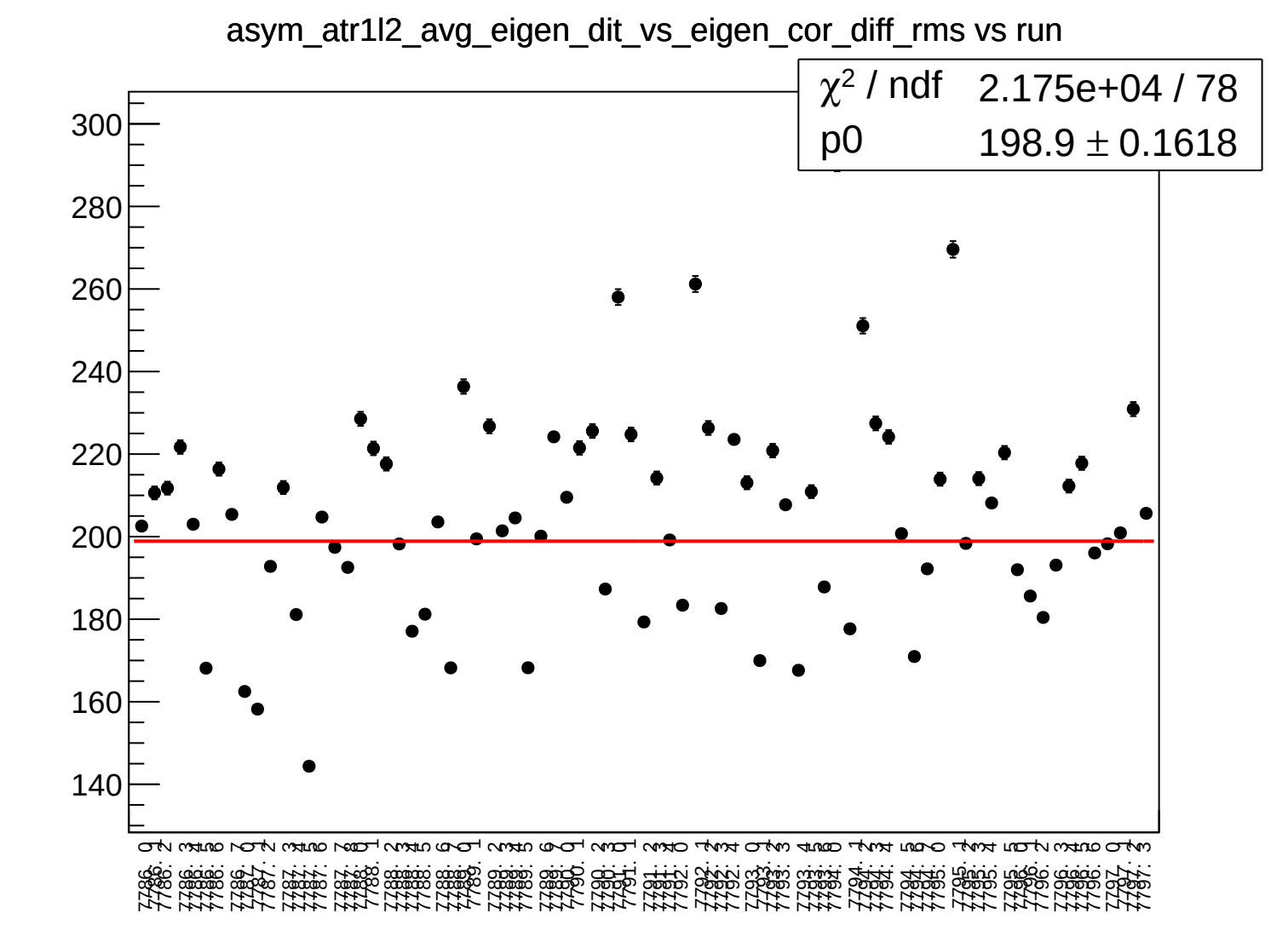


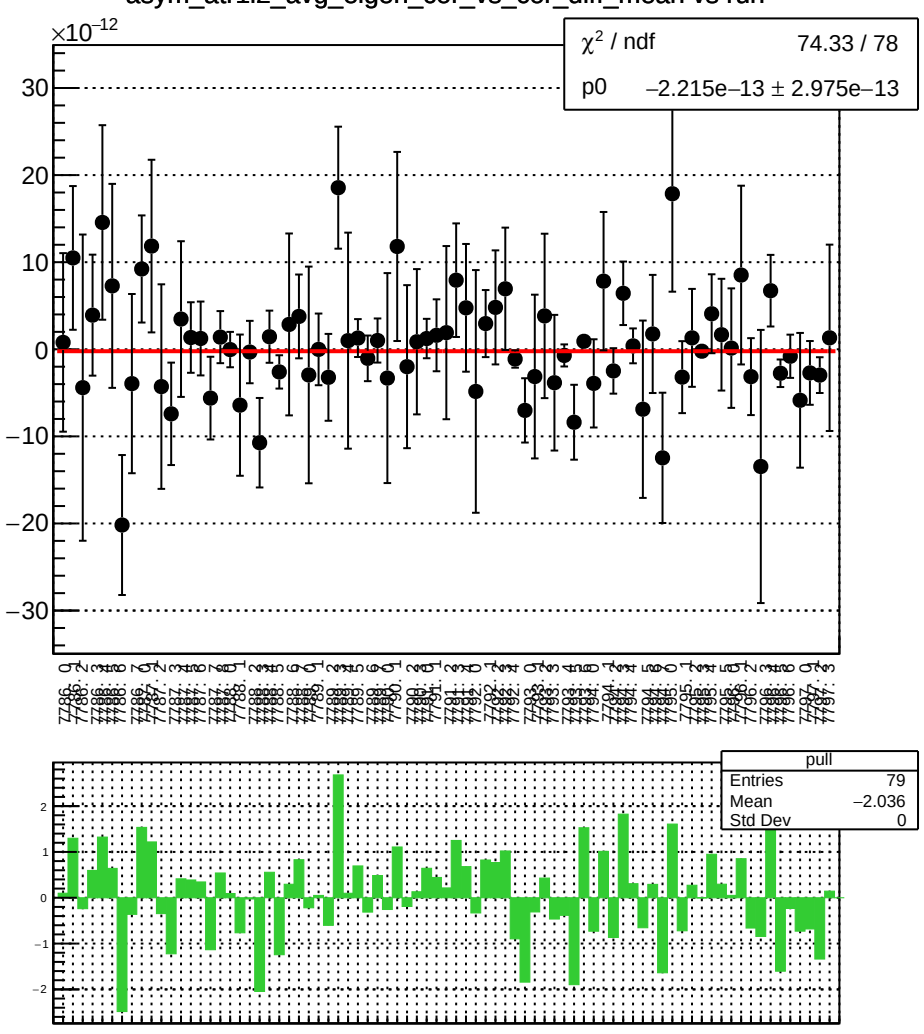

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.175e+04 / 78
p0 198.9 ± 0.1618
300
280
260
240
220
200
180
160
140

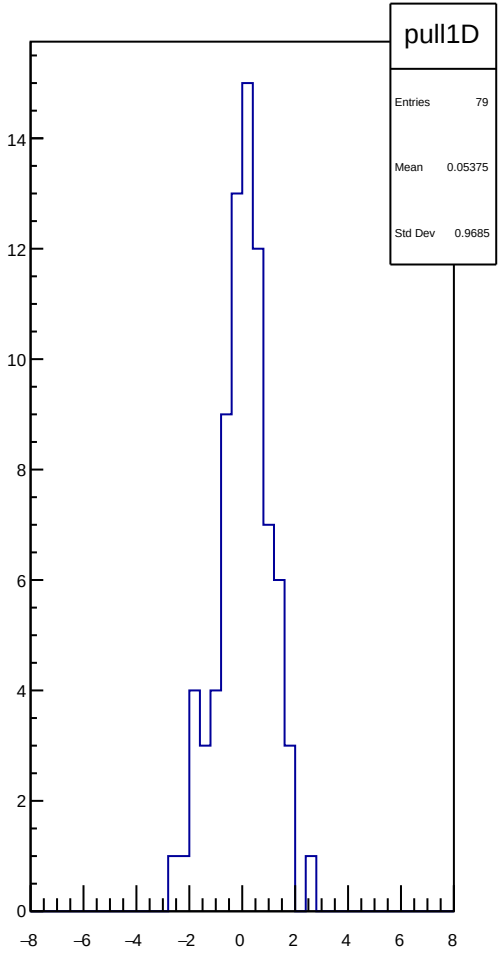
asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

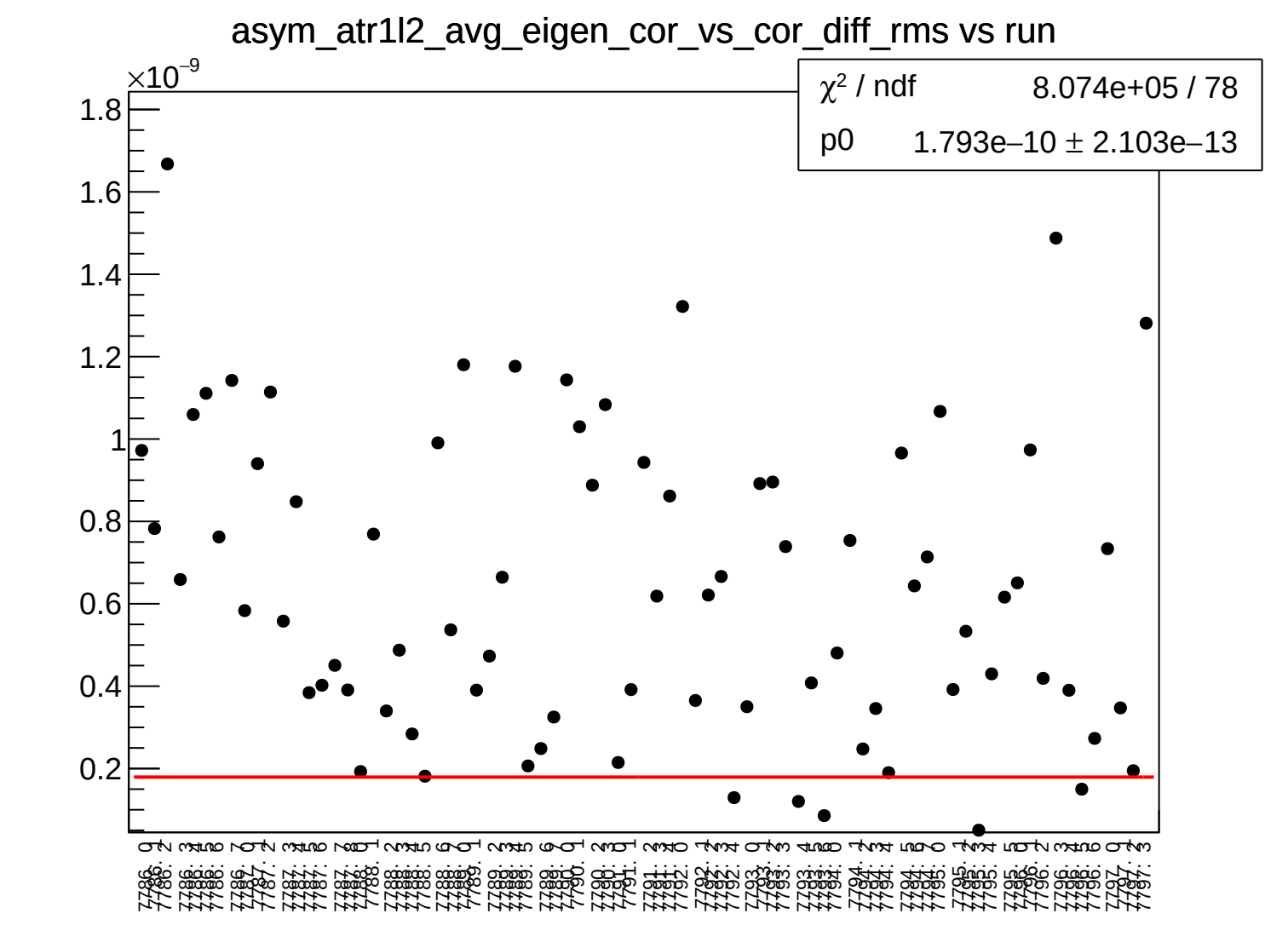


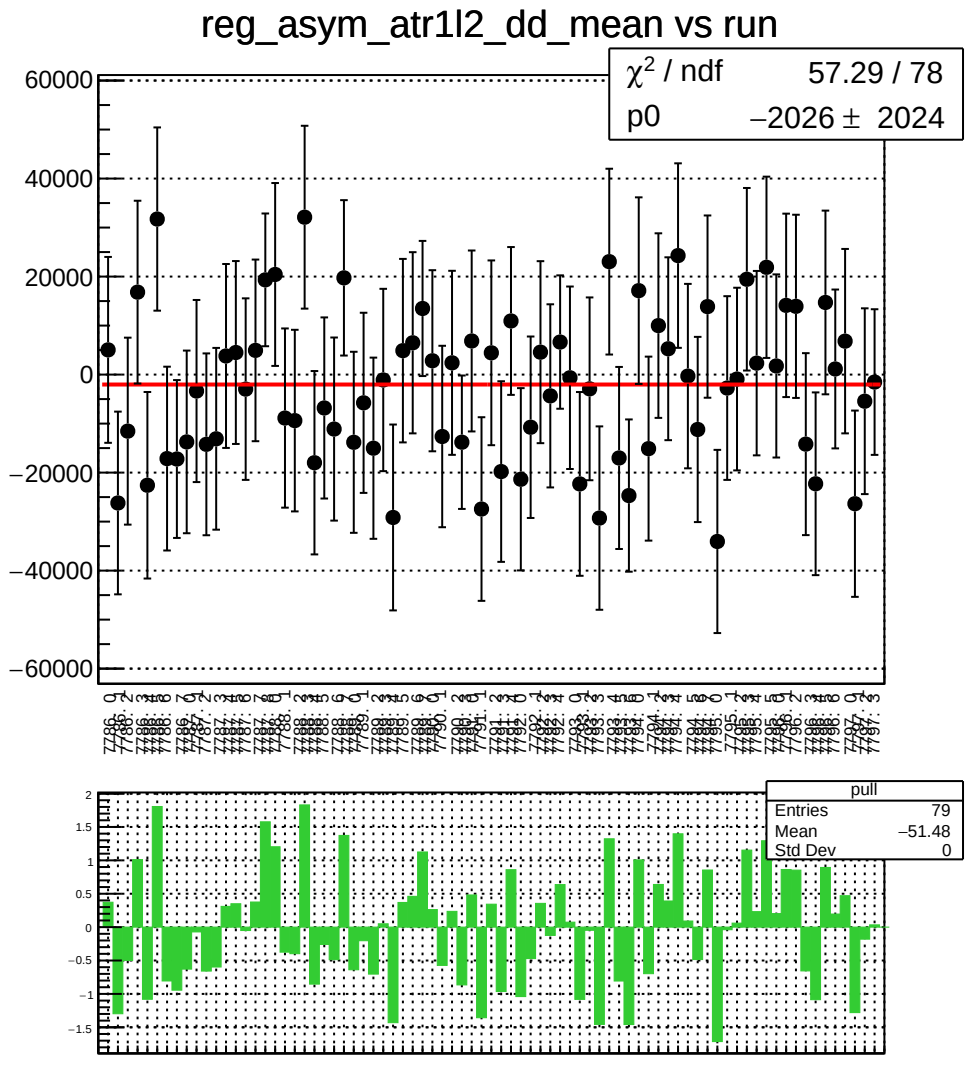


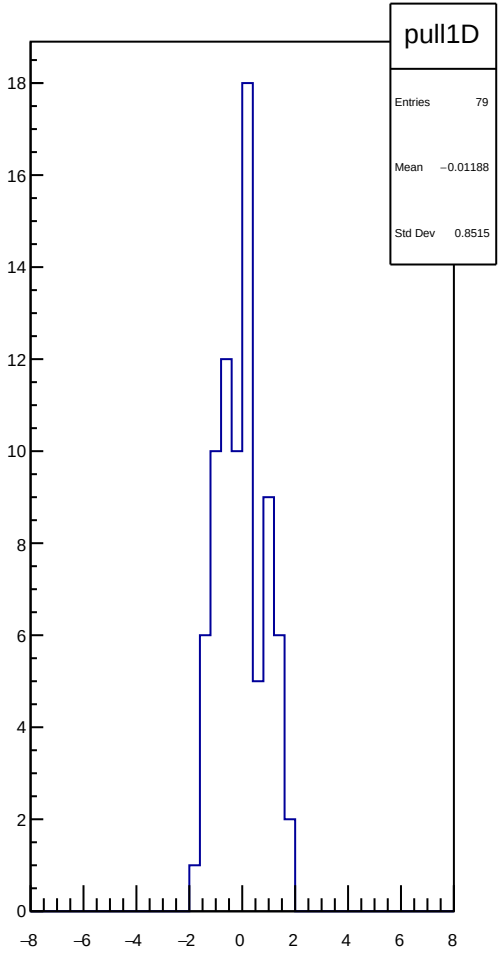

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.175e+04 / 78
p0 198.9 ± 0.1618
300
280
260
240
220
200
180
160
140

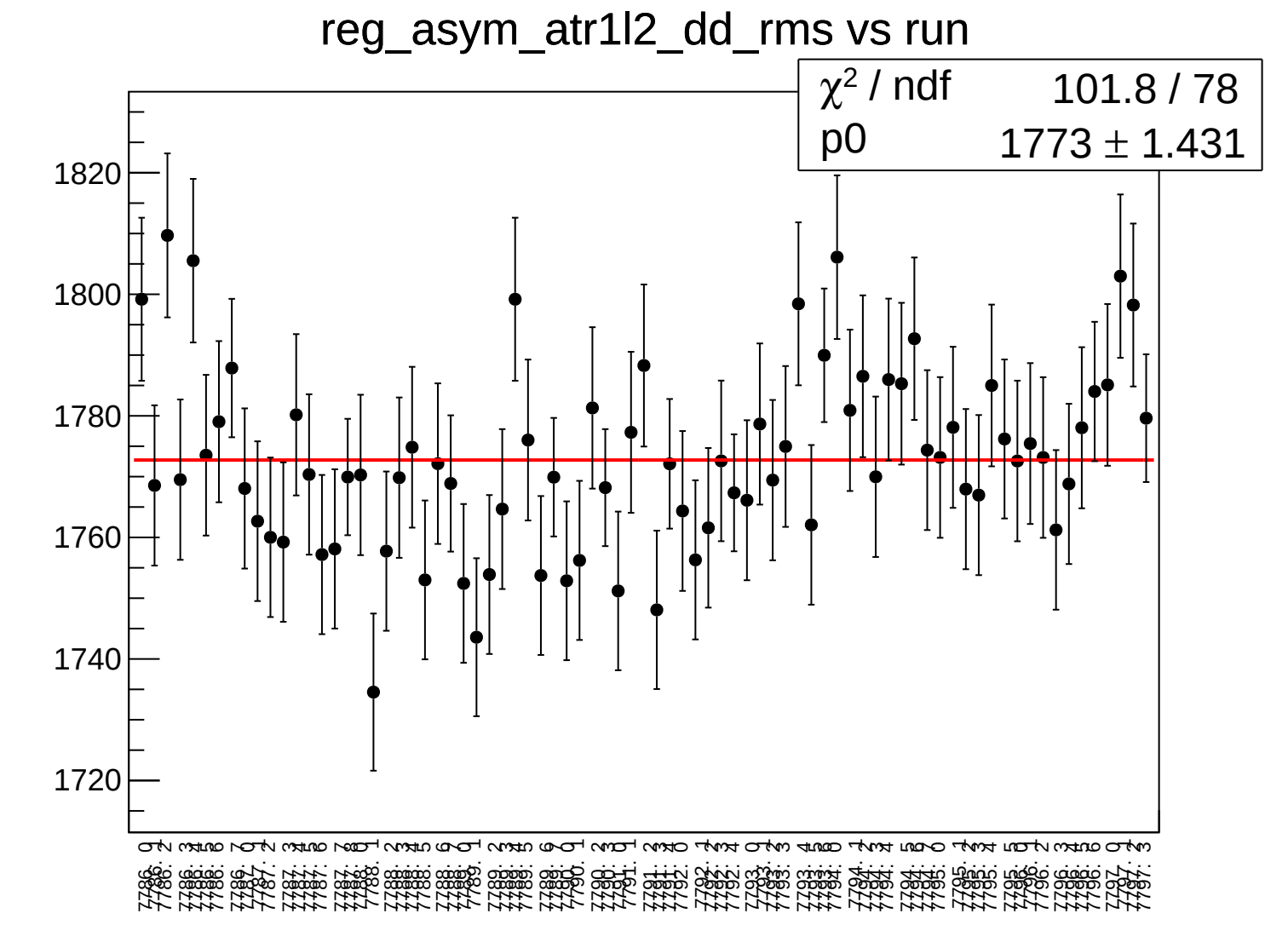

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.33 / 78
p0 −2.215e−13 ± 2.975e−13
pull
Entries 79
Mean −2.036
Std Dev 0

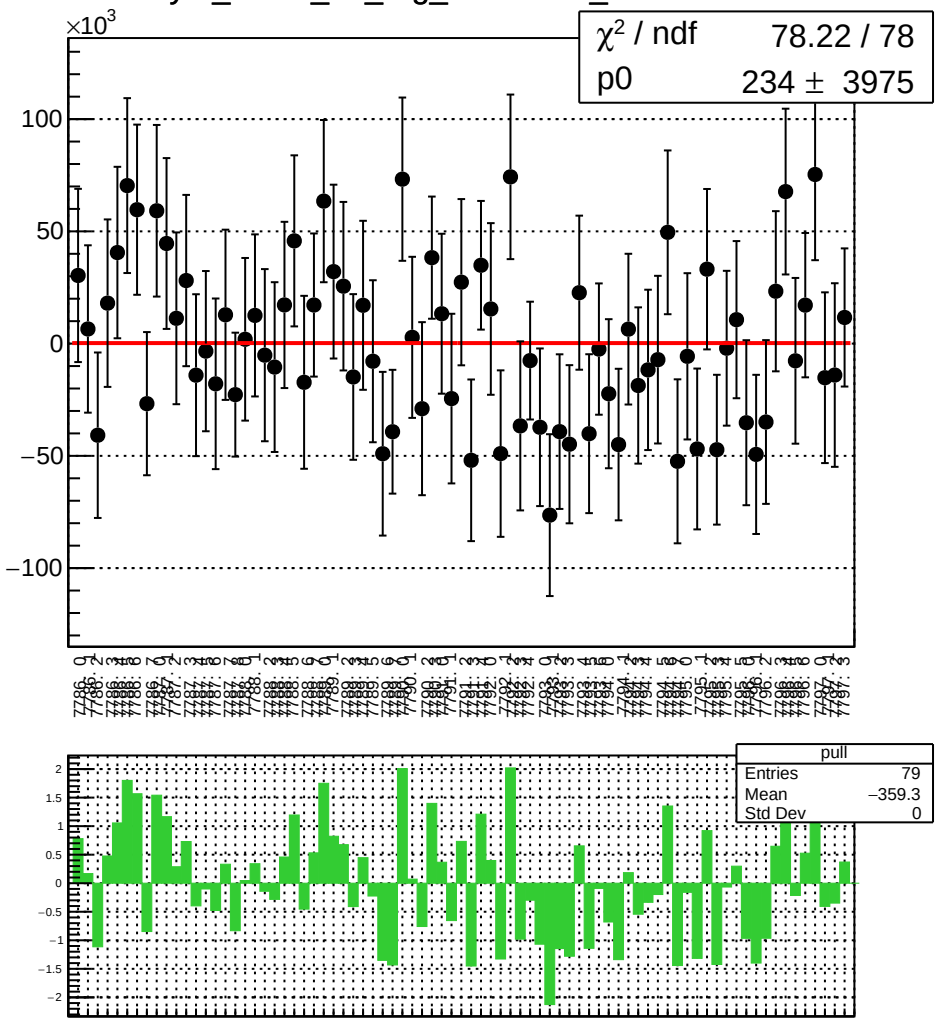

pull1D
Entries 79
Mean 0.05375
Std Dev 0.9685

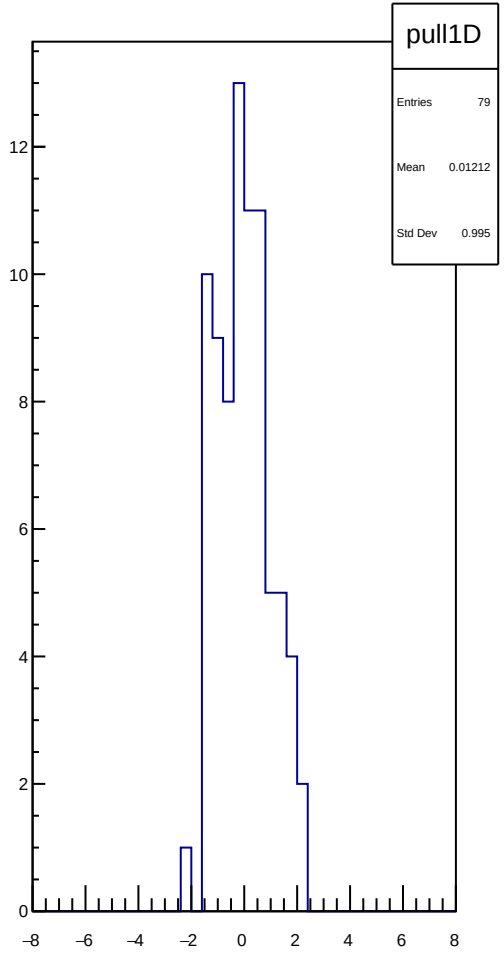

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.074e+05 / 78
p0 1.793e−10 ± 2.103e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

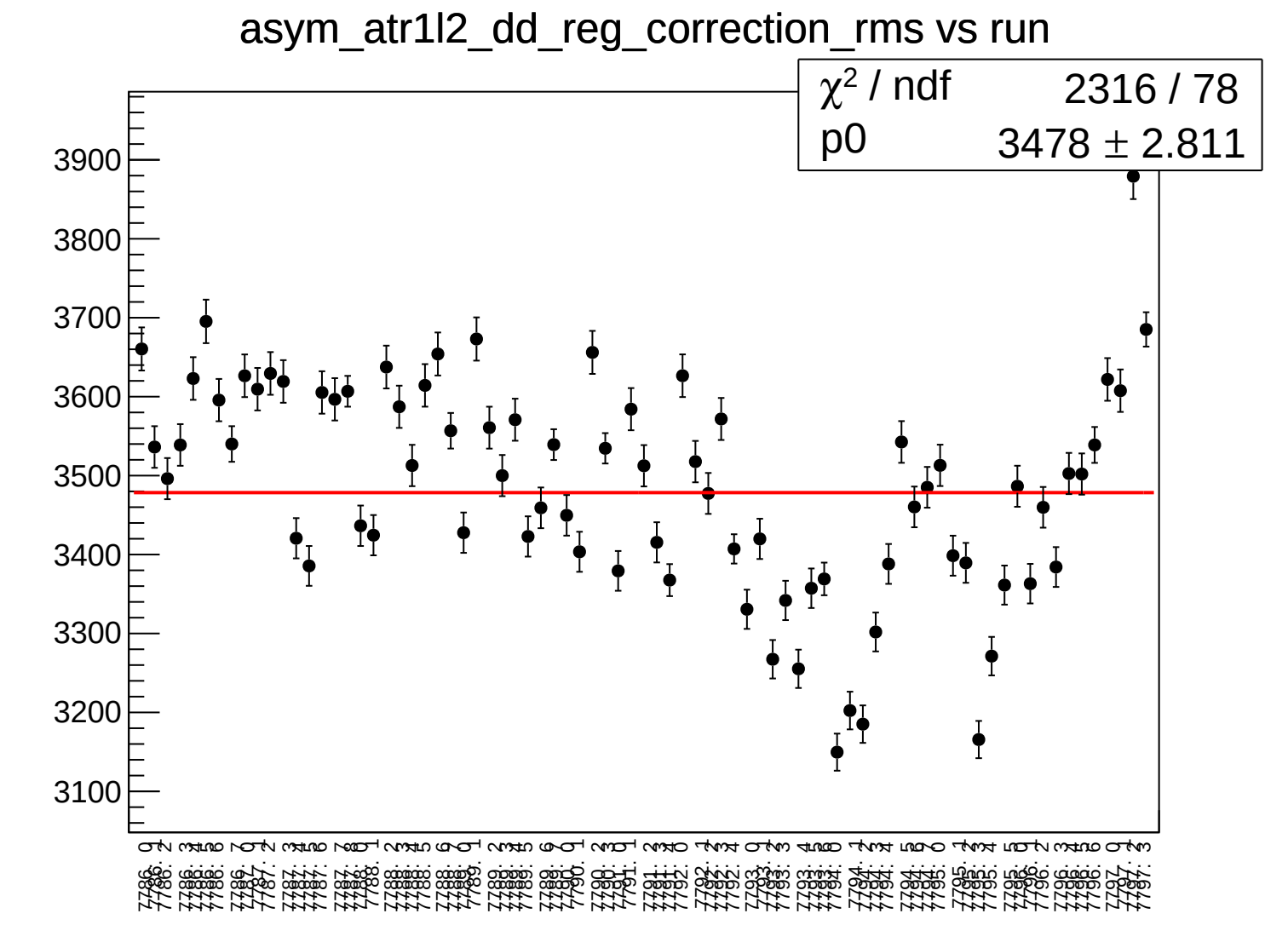

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 57.29 / 78
p0 −2026 ± 2024
pull
Entries 79
Mean −51.48
Std Dev 0

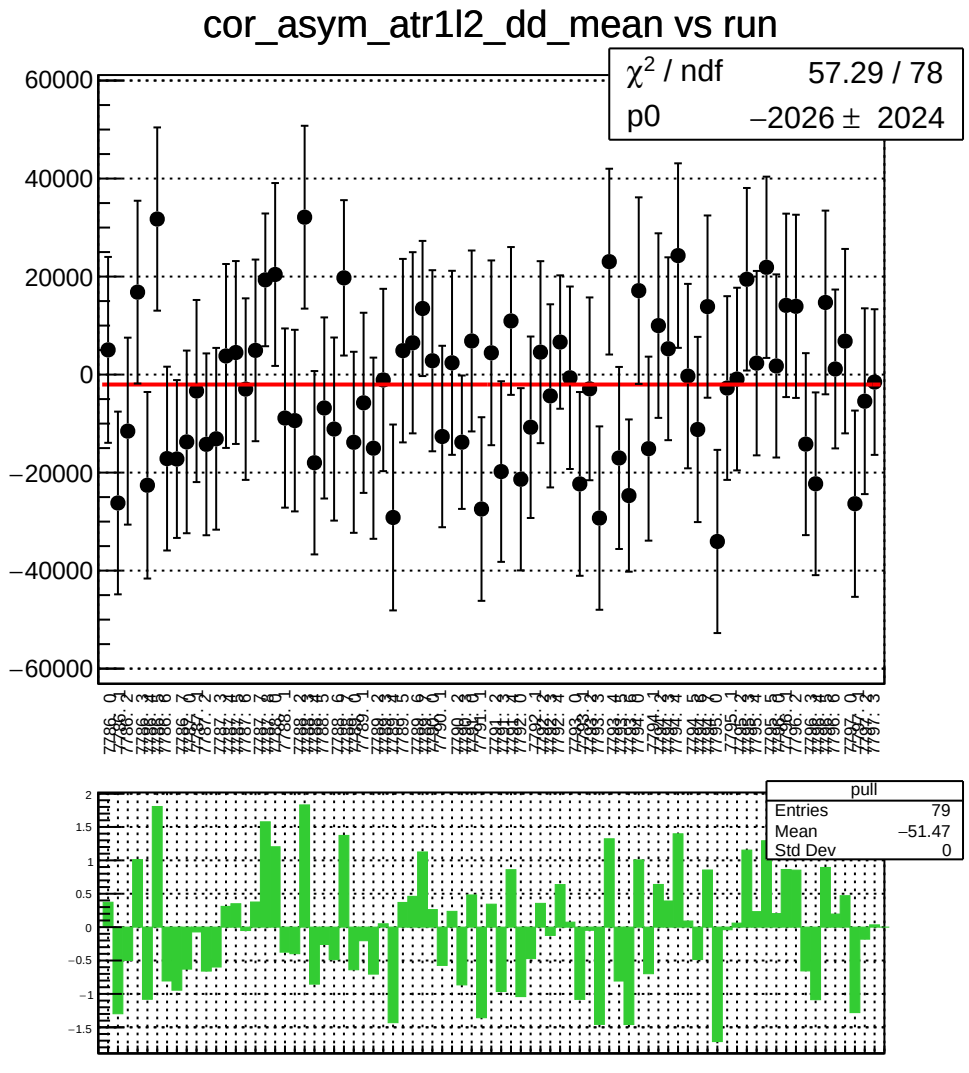

pull1D
Entries 79
Mean −0.01188
Std Dev 0.8515

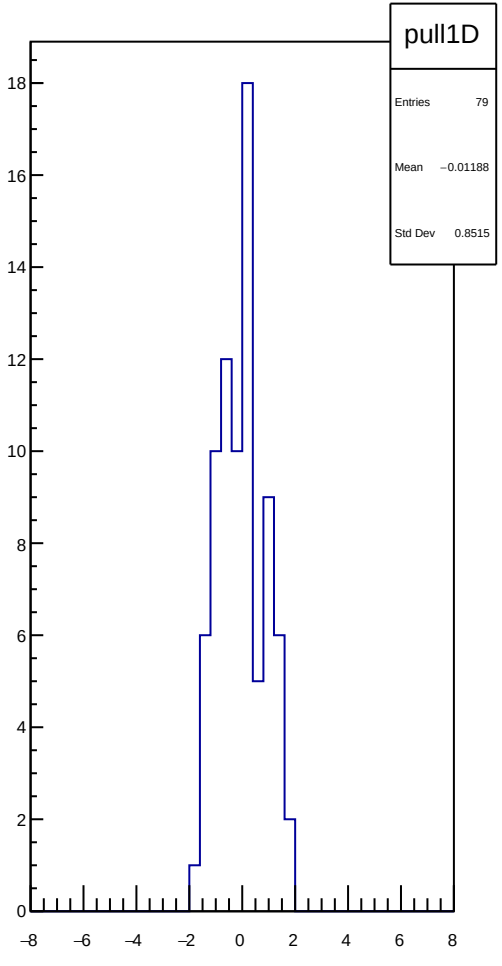

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 101.8 / 78
p0 1773 ± 1.431
1820
1800
1780
1760
1740
1720

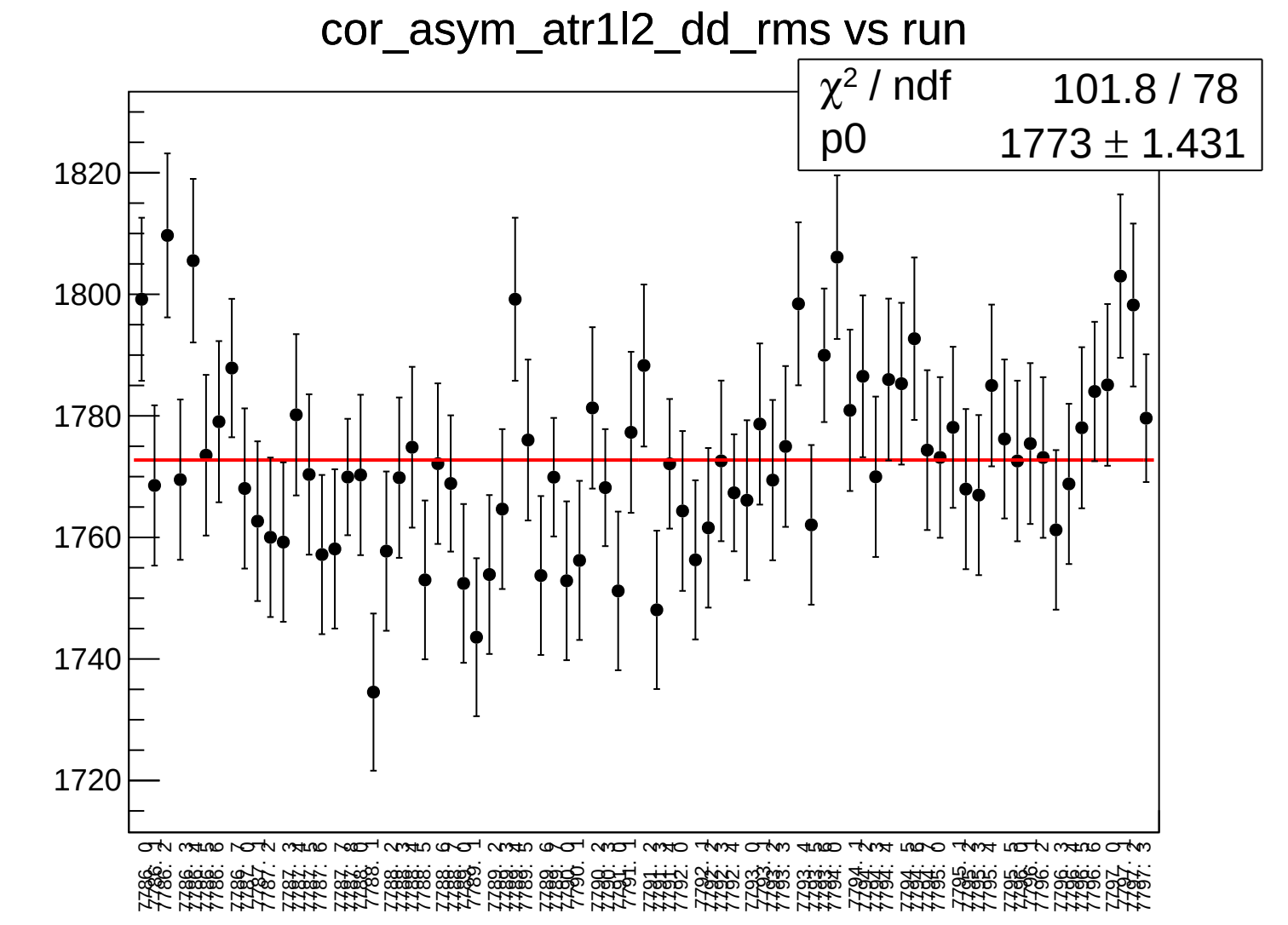

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.22 / 78
p0 234 ± 3975
100
50
0
−50
−100
pull
Entries 79
Mean −359.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

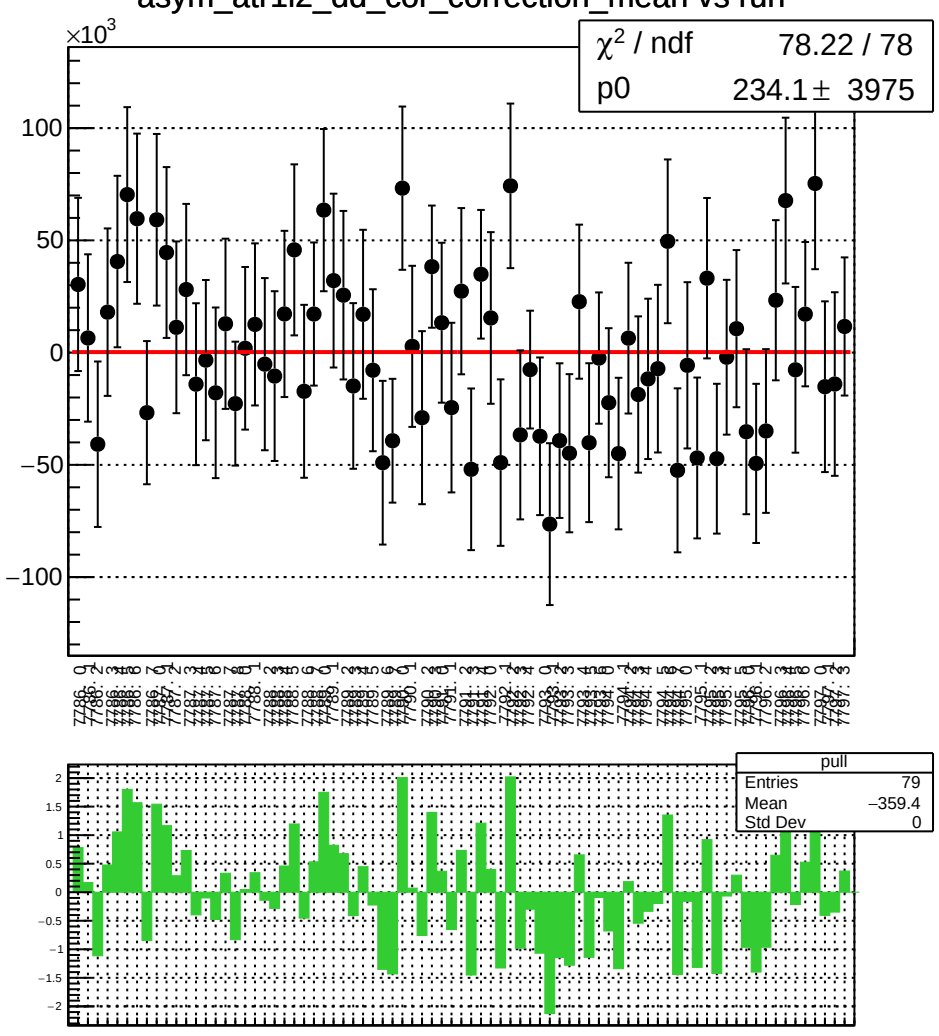

pull1D
Entries 79
Mean 0.01212
Std Dev 0.995
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

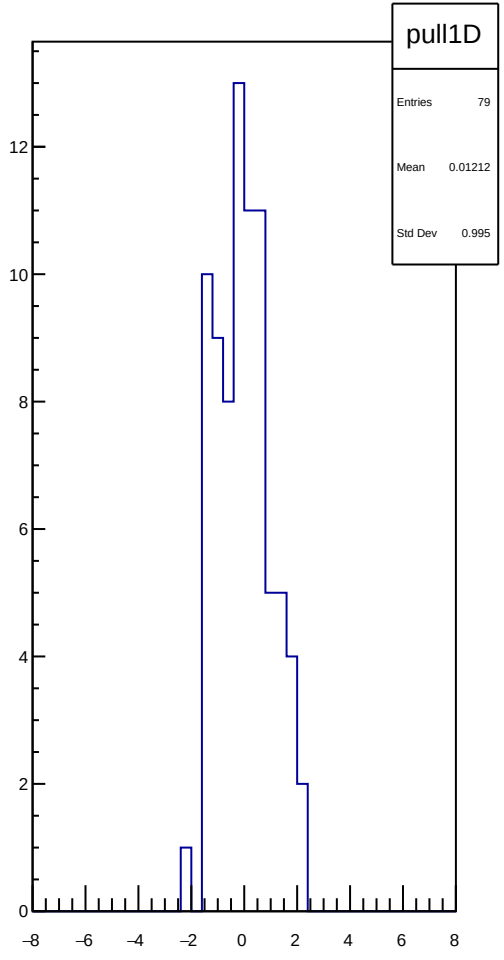

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 2316 / 78
p0 3478 ± 2.811
3900
3800
3700
3600
3500
3400
3300
3200
3100

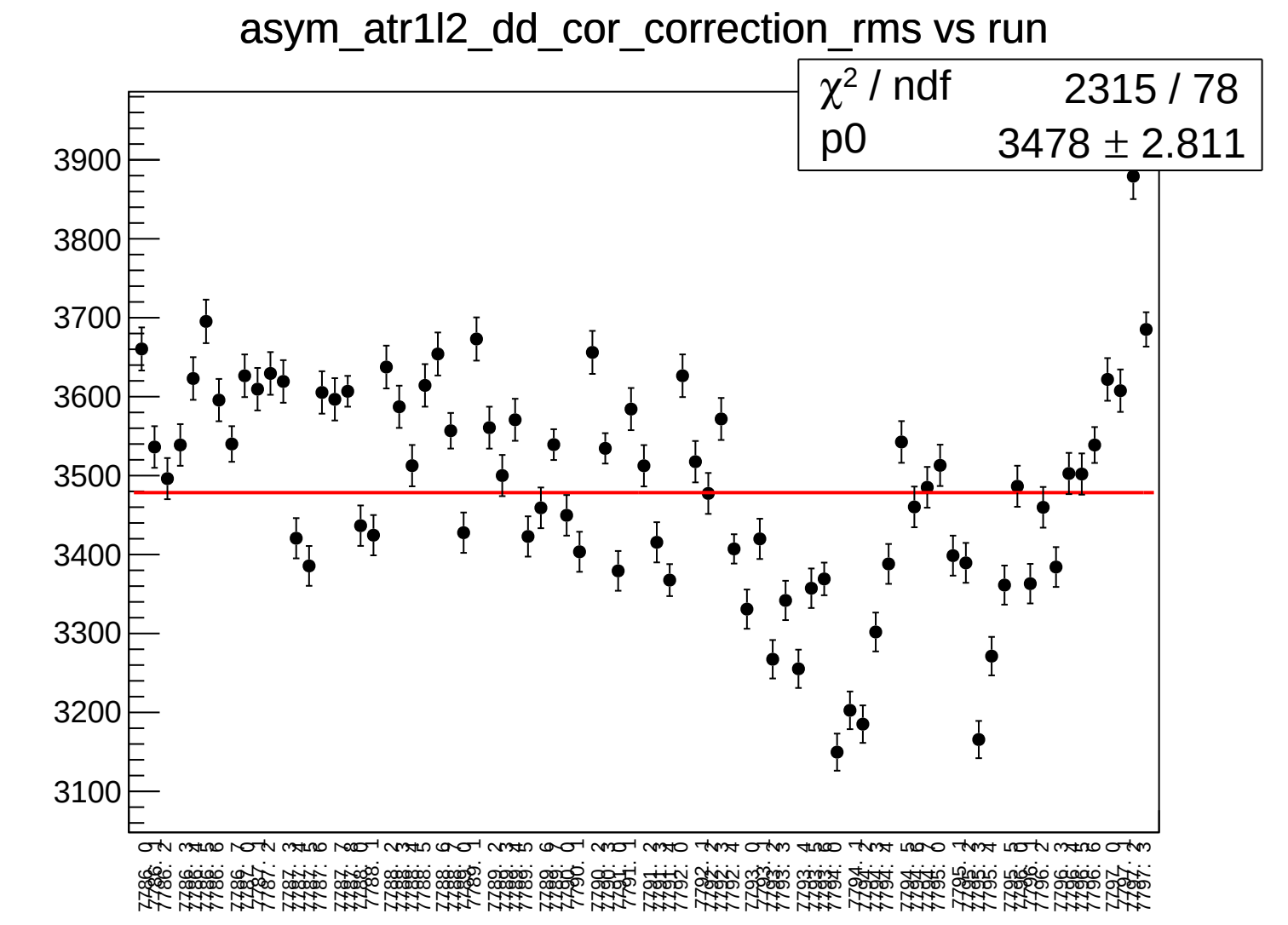

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 57.29 / 78
p0 −2026 ± 2024
pull
Entries 79
Mean −51.47
Std Dev 0

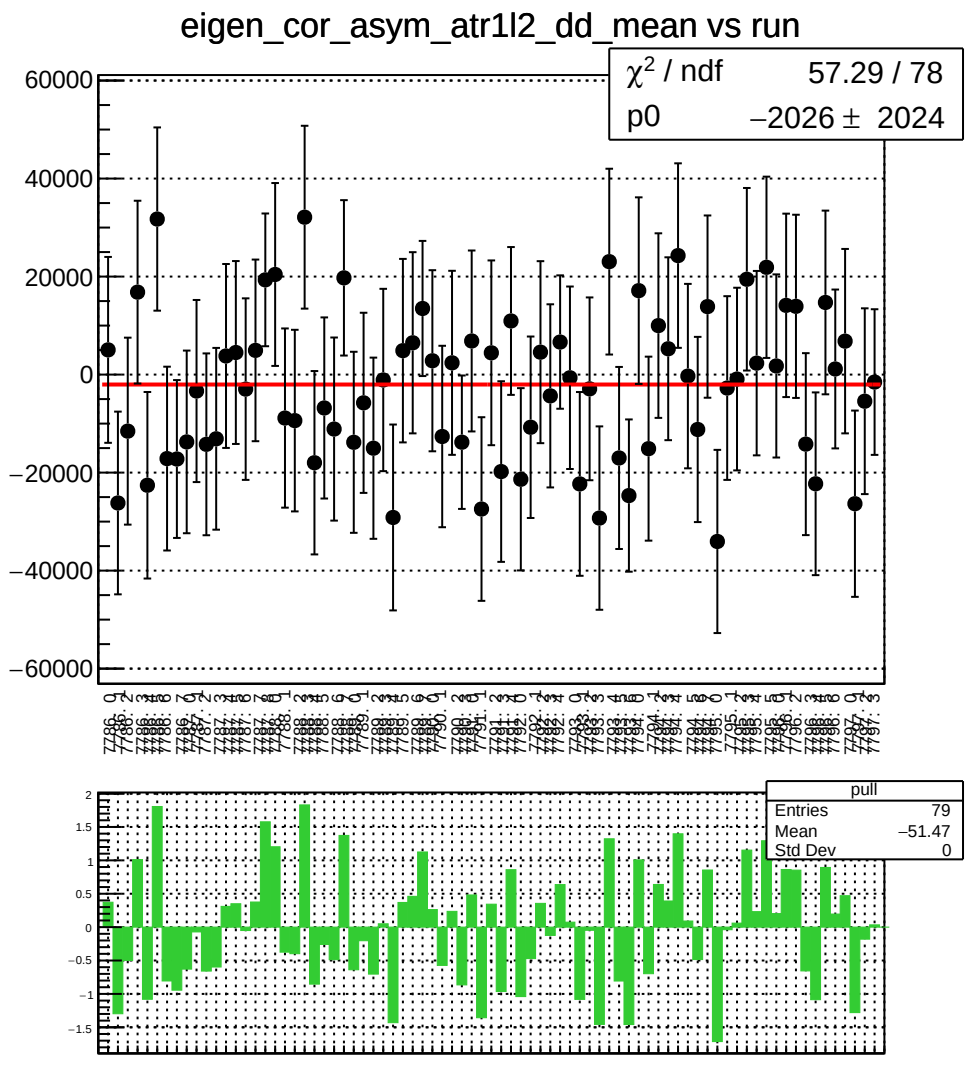

pull1D
Entries 79
Mean −0.01188
Std Dev 0.8515

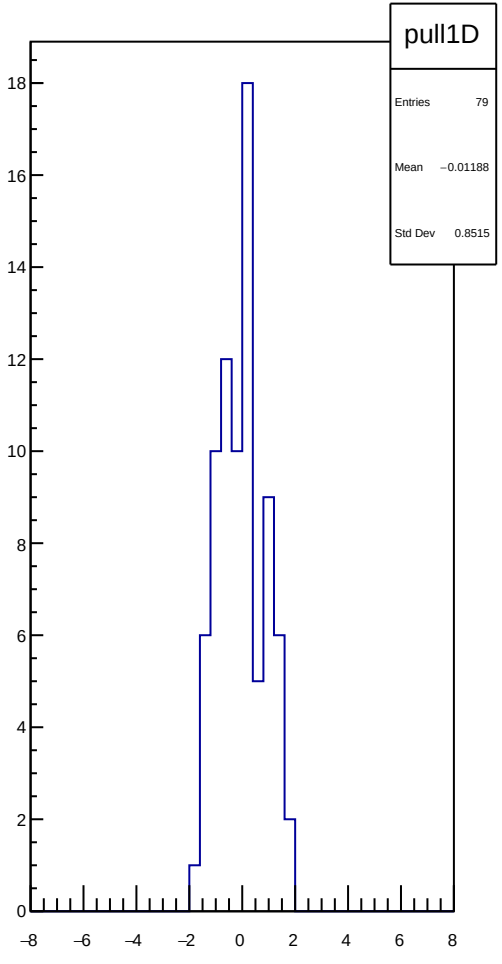

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 101.8 / 78
p0 1773 ± 1.431
1820
1800
1780
1760
1740
1720

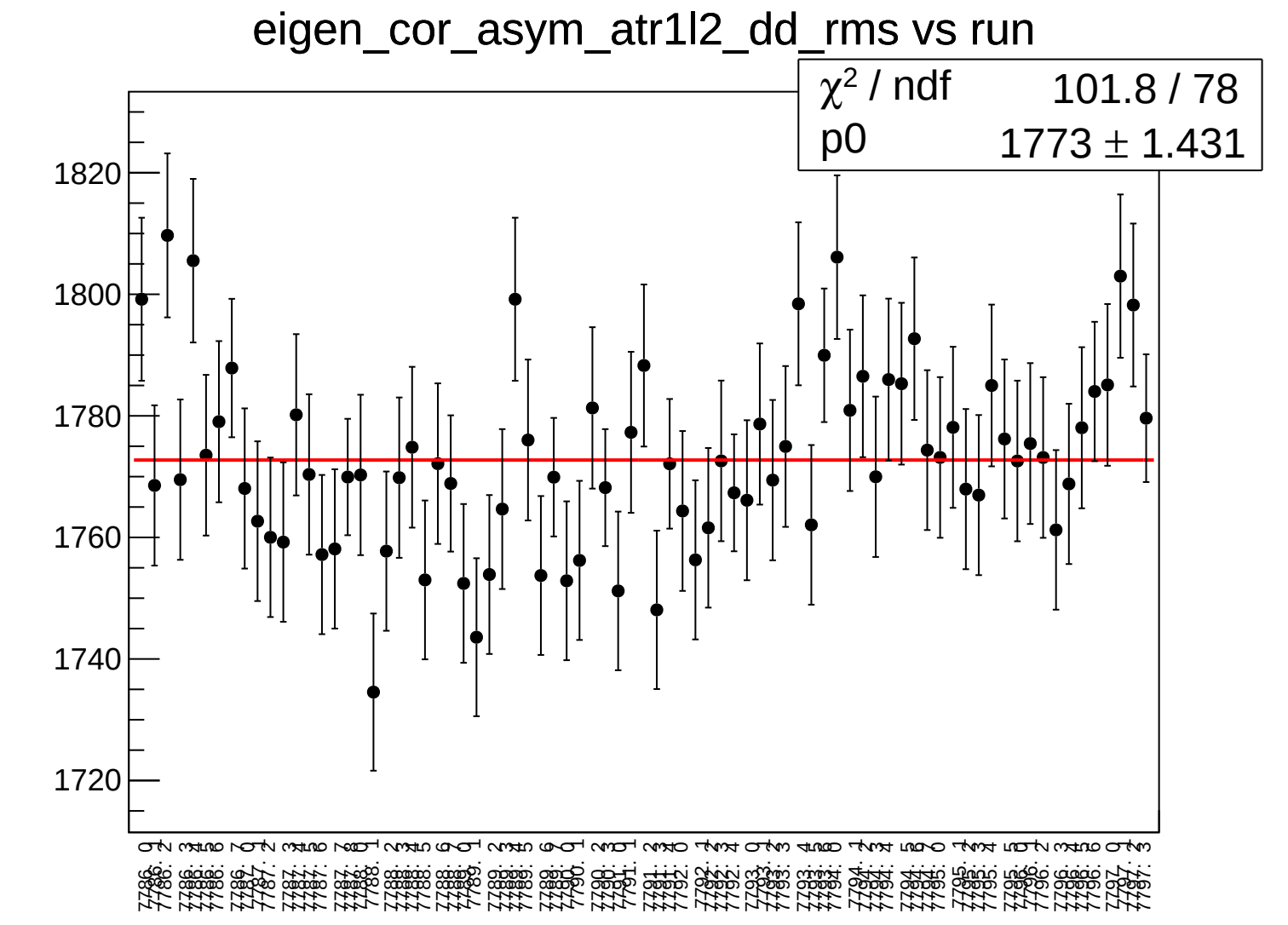

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.22 / 78
p0 234.1 ± 3975
100
50
0
−50
−100
pull
Entries 79
Mean −359.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

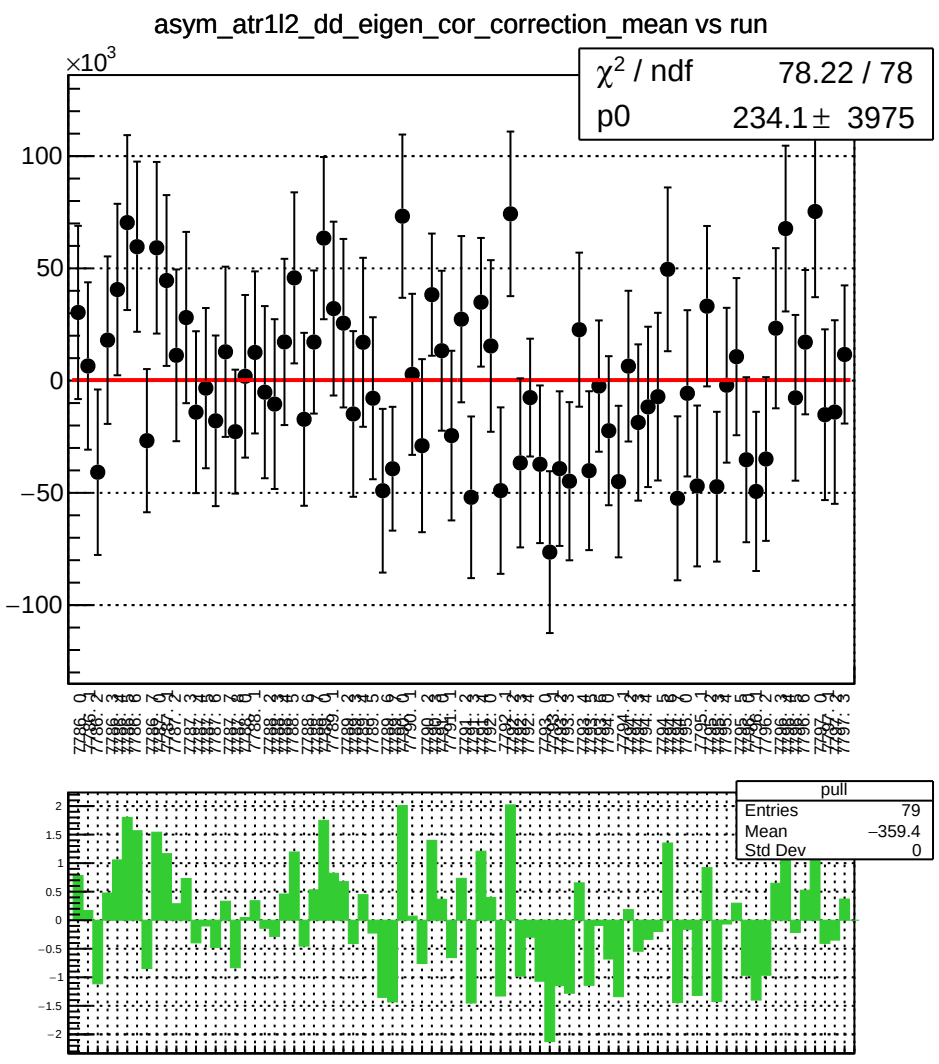

pull1D
Entries 79
Mean 0.01212
Std Dev 0.995
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

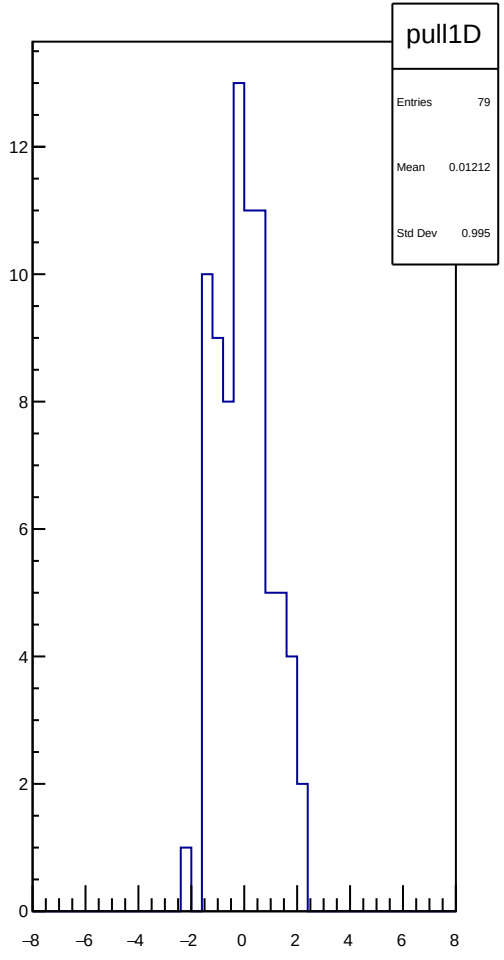

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 2315 / 78
p0 3478 ± 2.811
3900
3800
3700
3600
3500
3400
3300
3200
3100

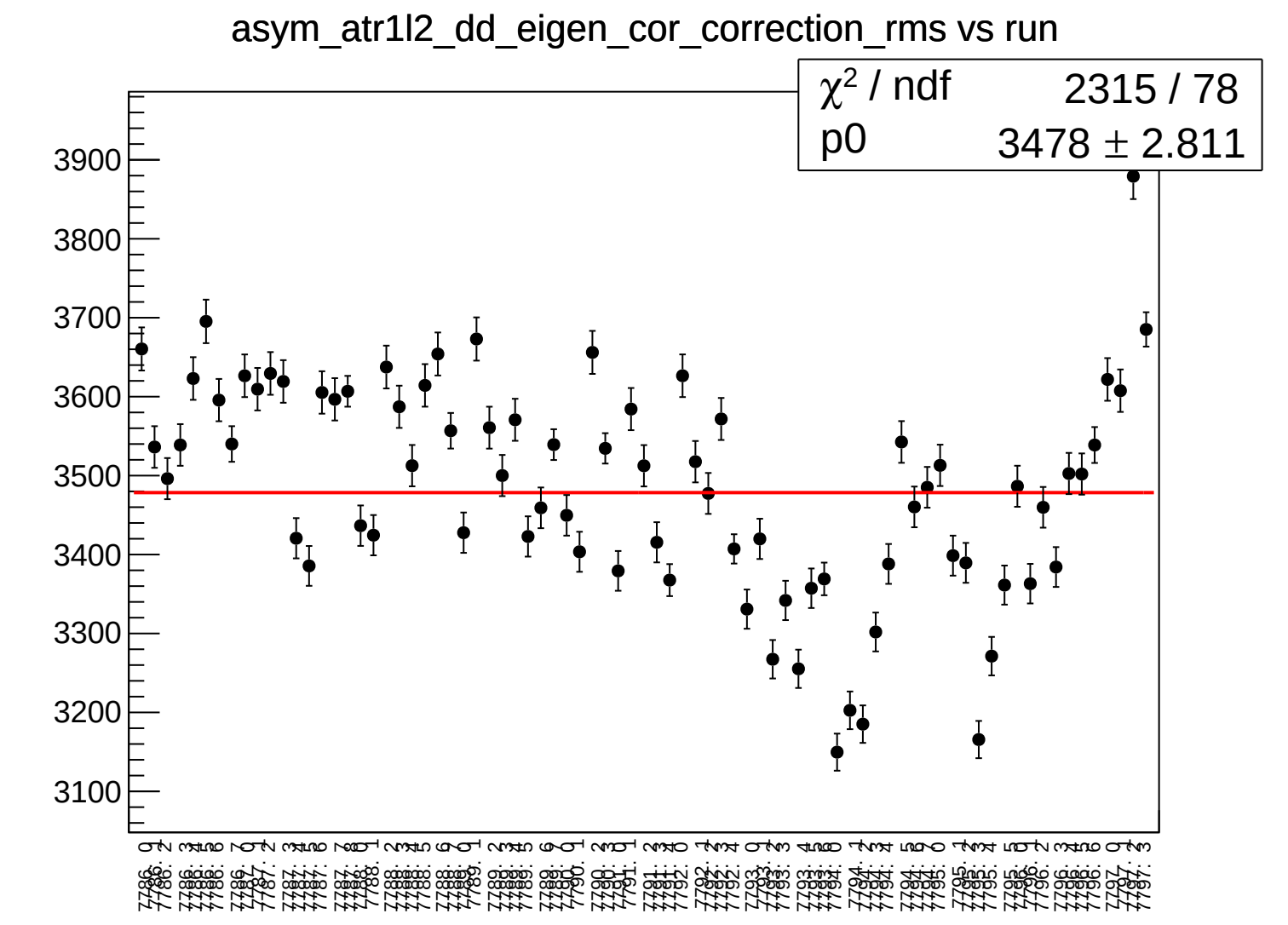

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 57.29 / 78
p0 −2026 ± 2024
pull
Entries 79
Mean −51.47
Std Dev 0

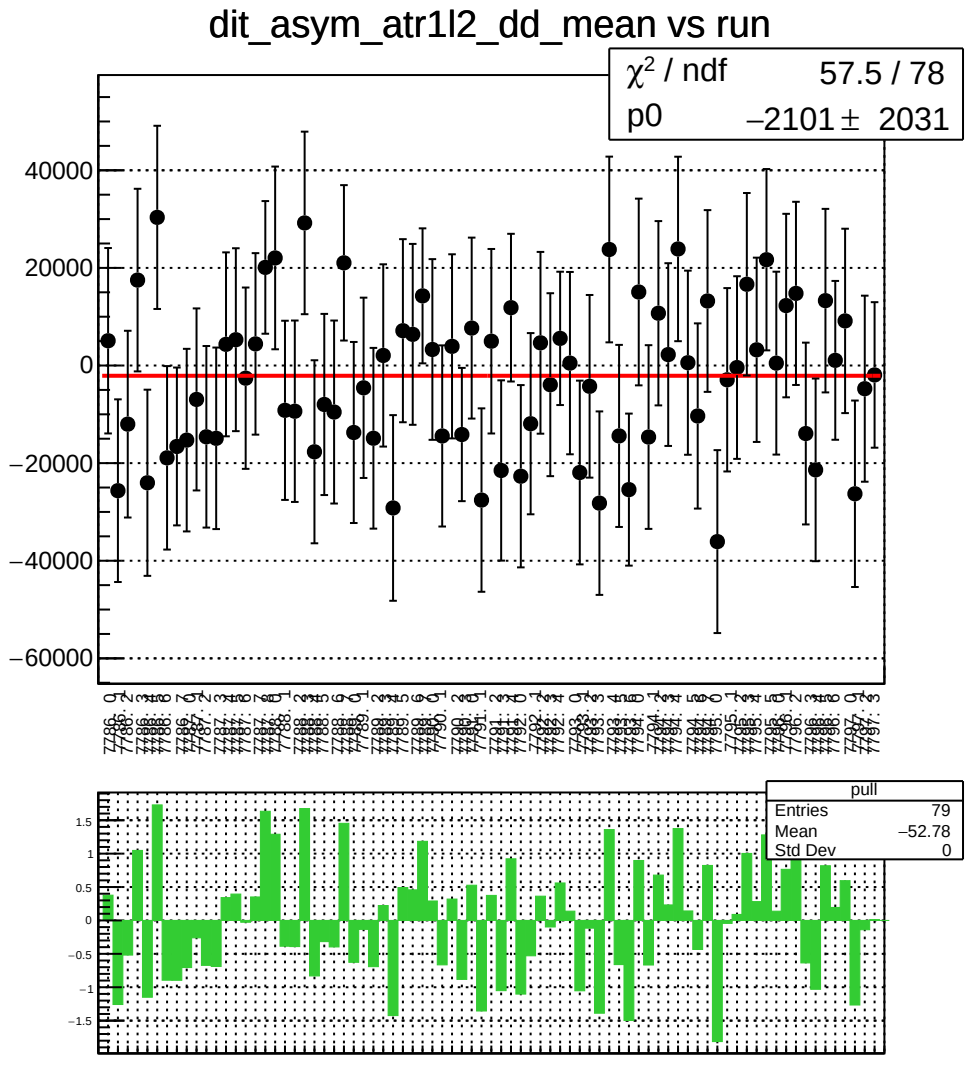

pull1D
Entries 79
Mean −0.01188
Std Dev 0.8515

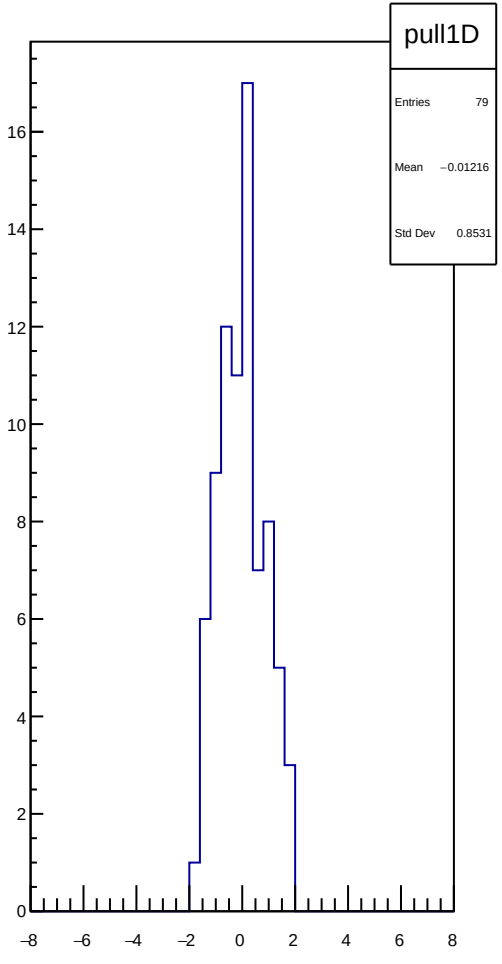

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 101.8 / 78
p0 1773 ± 1.431
1820
1800
1780
1760
1740
1720

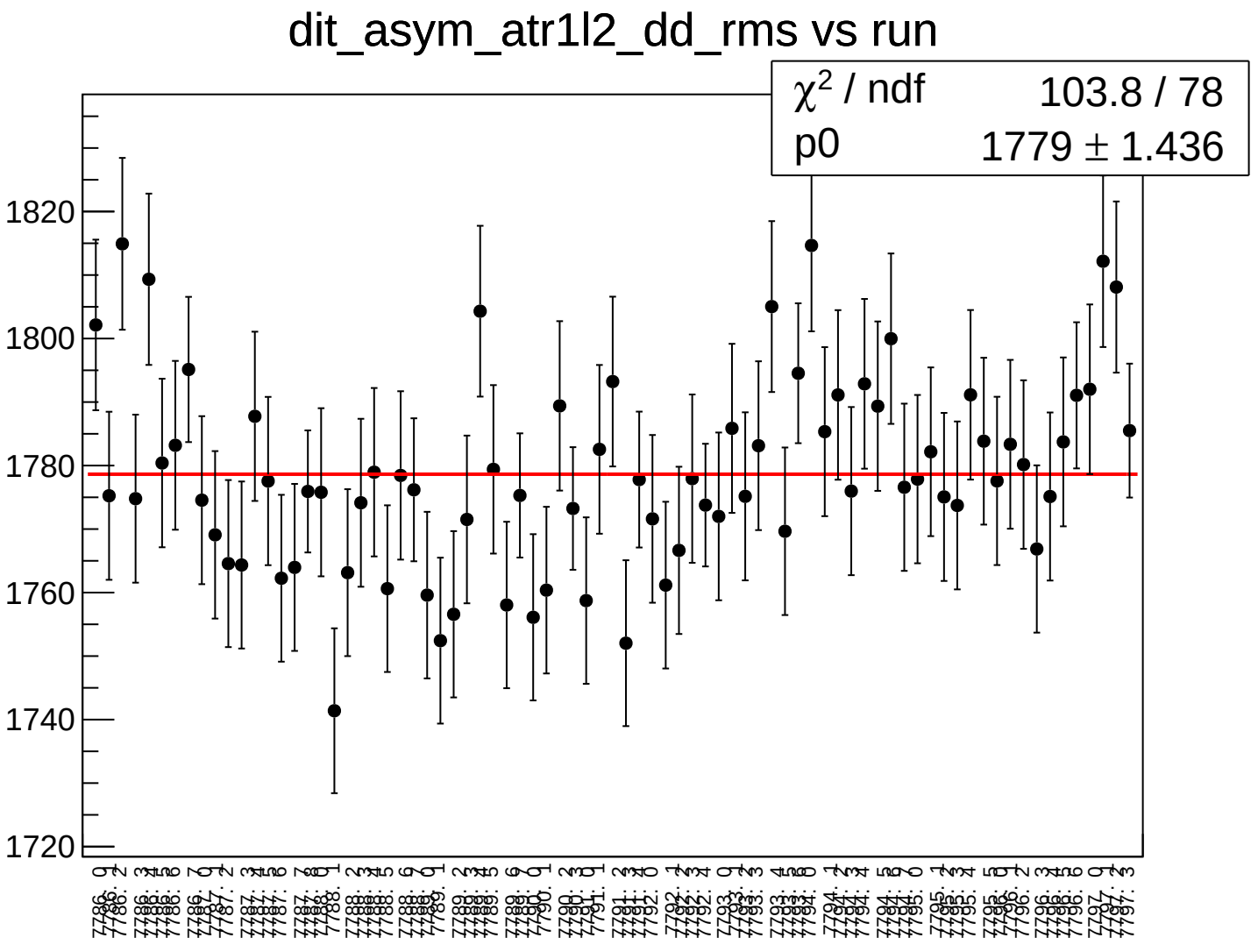

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.22 / 78
p0 234.1 ± 3975
100
50
0
−50
−100
pull
Entries 79
Mean −359.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

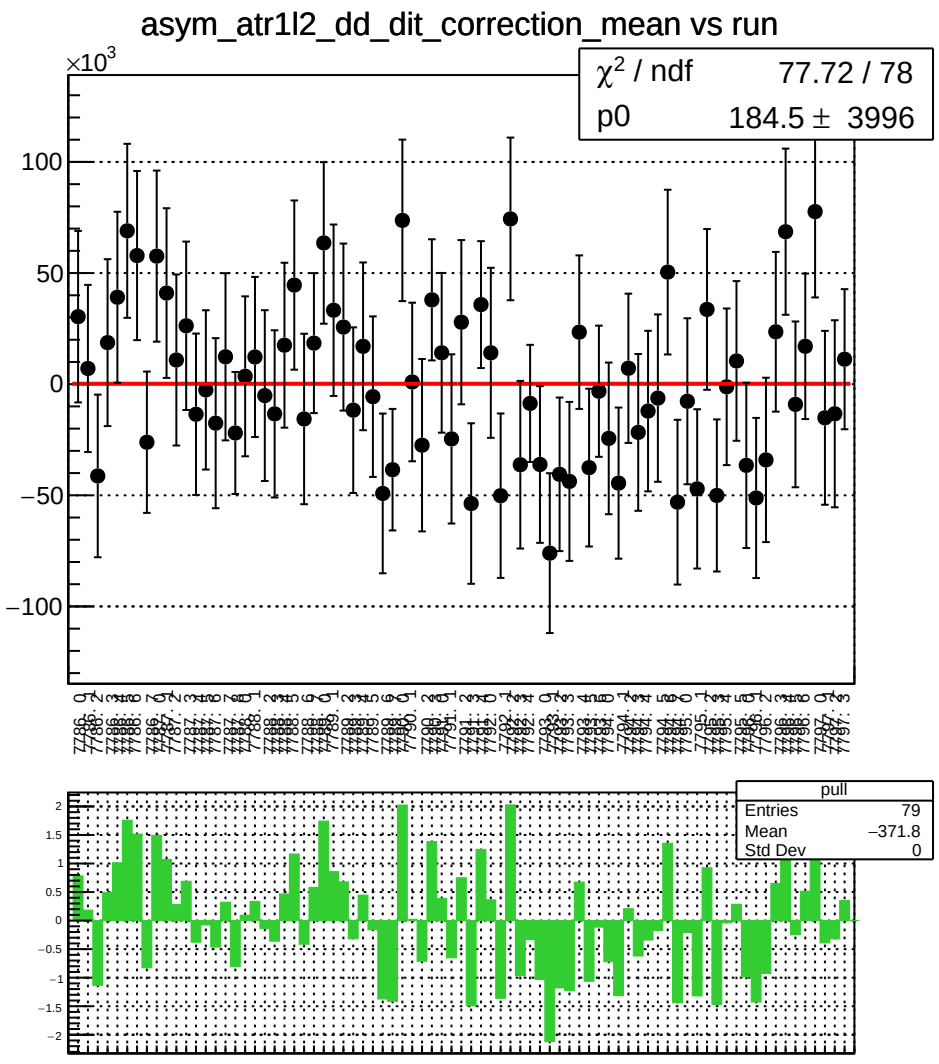

pull1D
Entries 79
Mean 0.01212
Std Dev 0.995
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

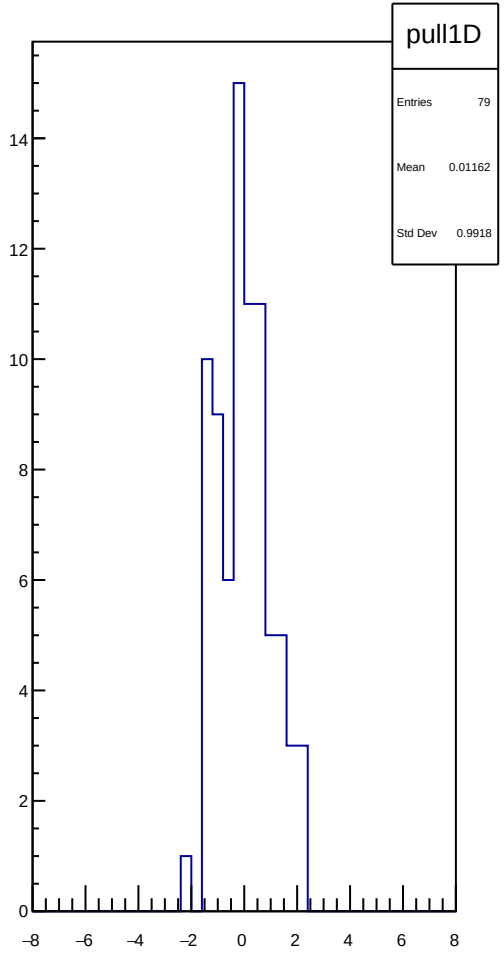

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2315 / 78
p0 3478 ± 2.811
3900
3800
3700
3600
3500
3400
3300
3200
3100

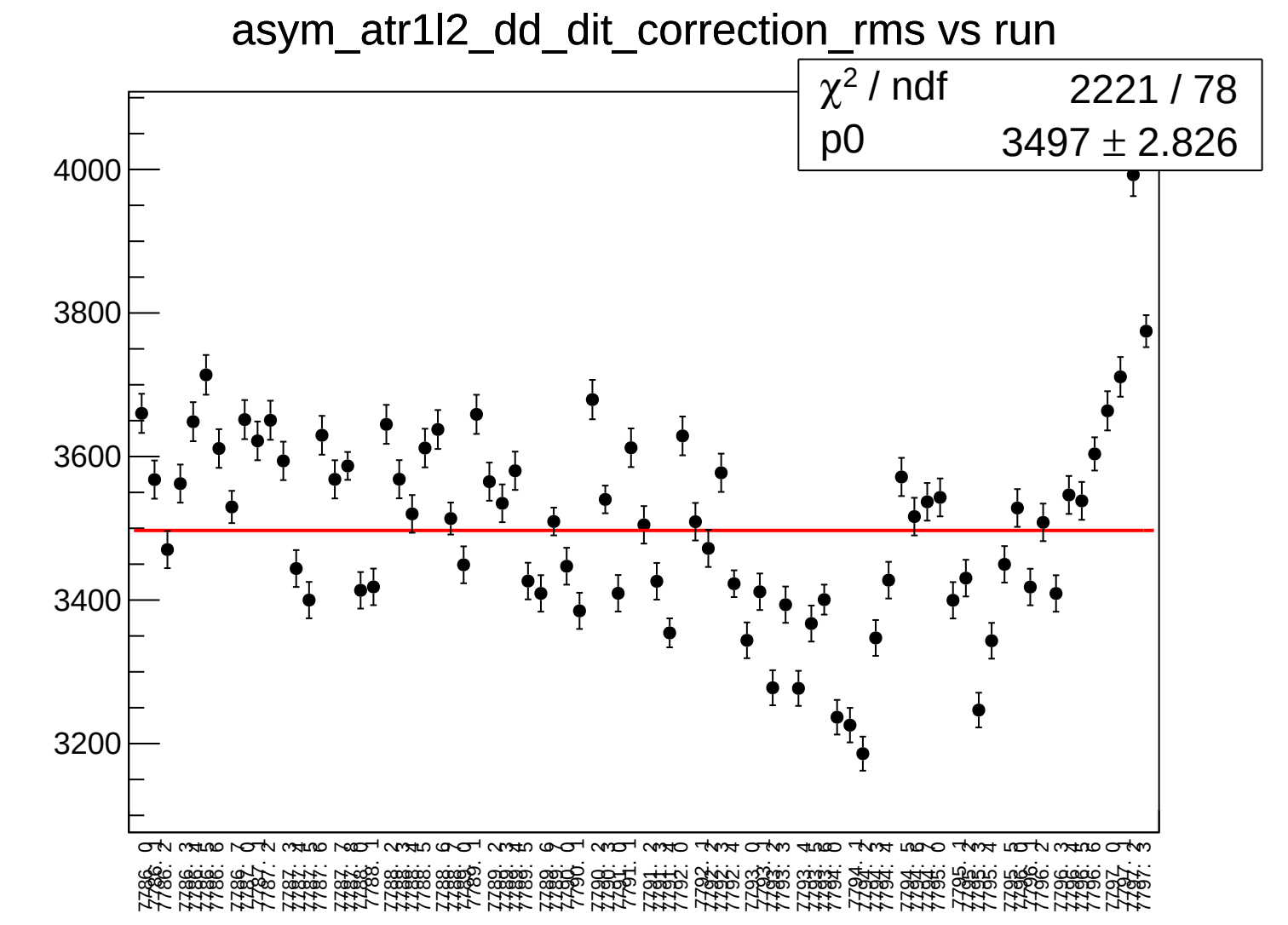

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 57.5 / 78
p0 −2101 ± 2031
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −52.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

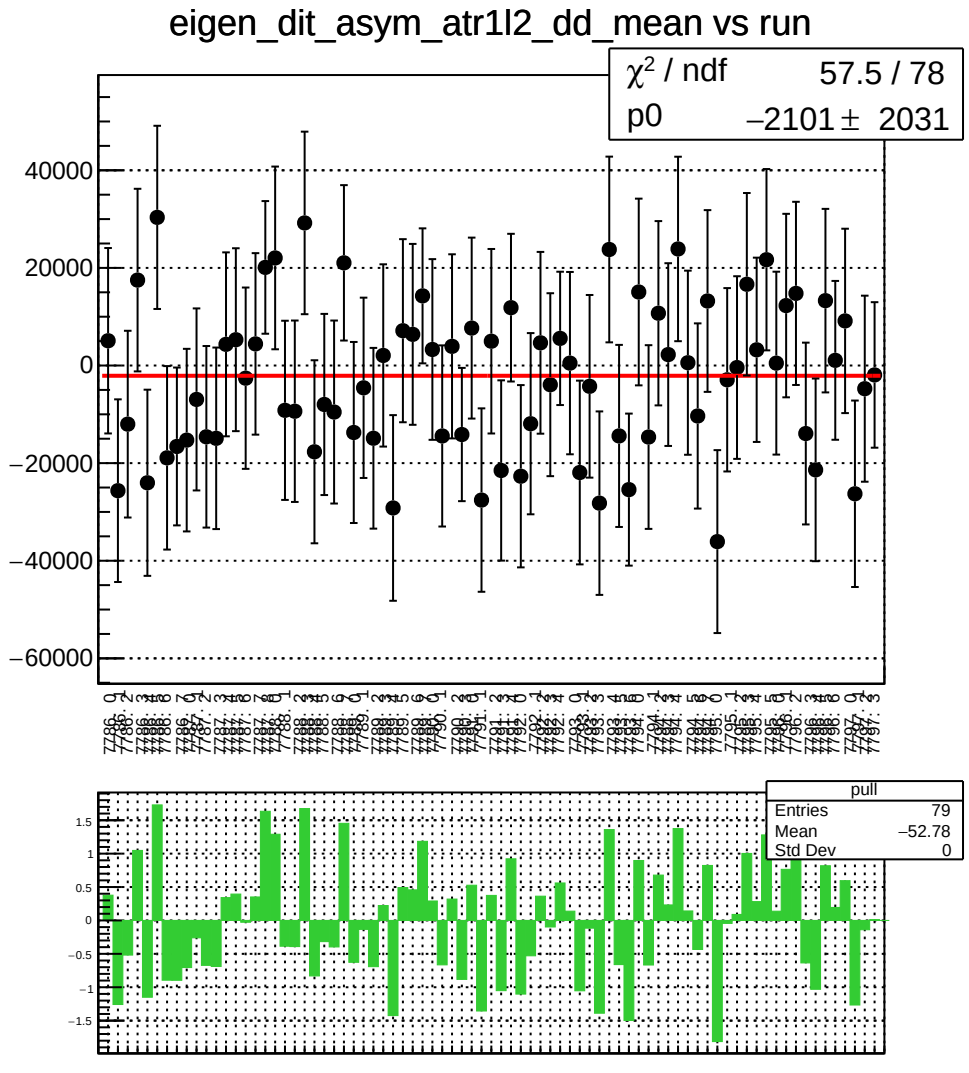

pull1D
Entries 79
Mean −0.01216
Std Dev 0.8531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

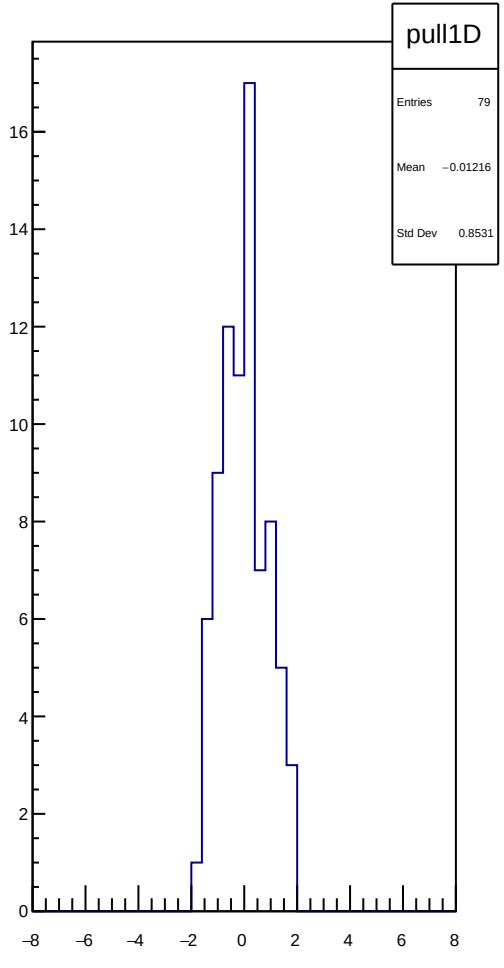

dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 103.8 / 78
p0 1779 ± 1.436
1820
1800
1780
1760
1740
1720

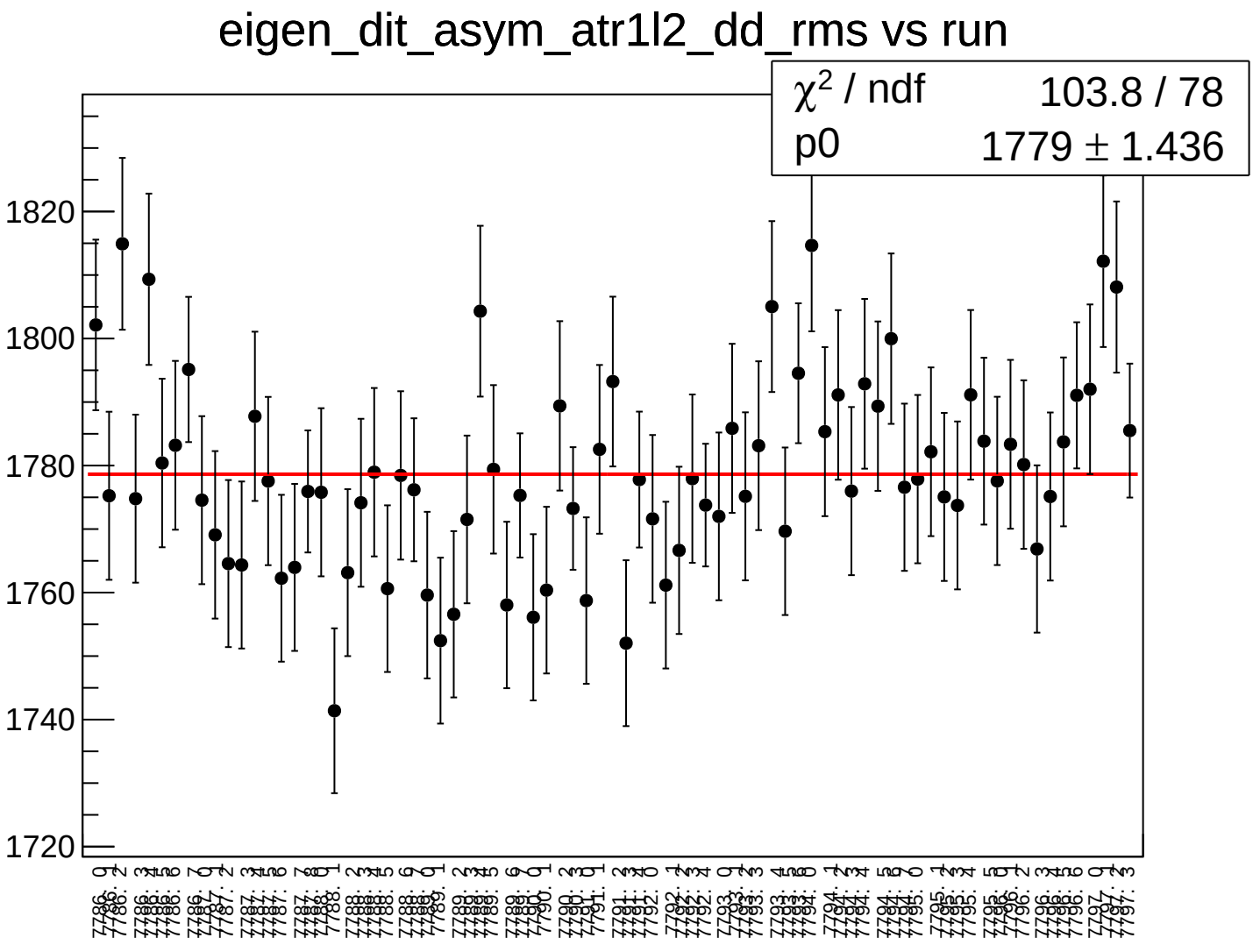

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.72 / 78
p0 184.5 ± 3996
100
50
0
−50
−100
pull
Entries 79
Mean −371.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

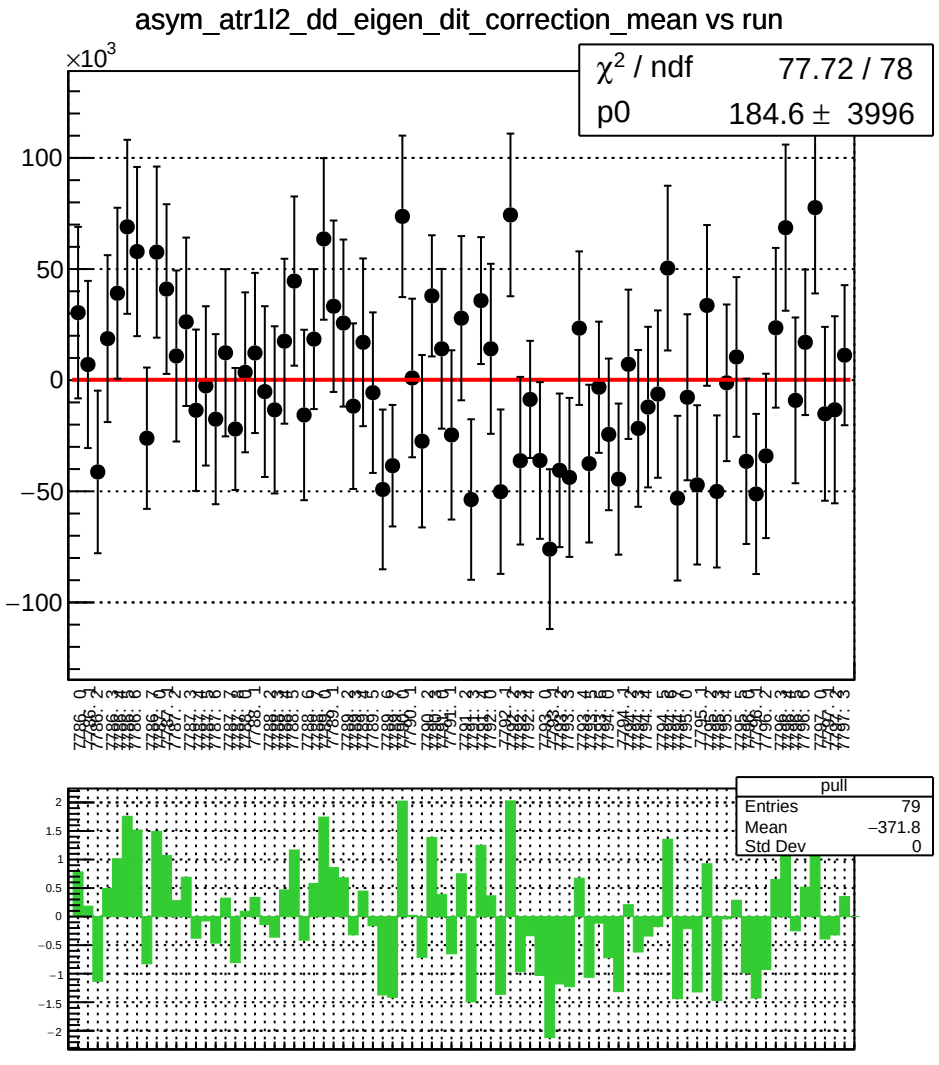

pull1D
Entries 79
Mean 0.01162
Std Dev 0.9918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

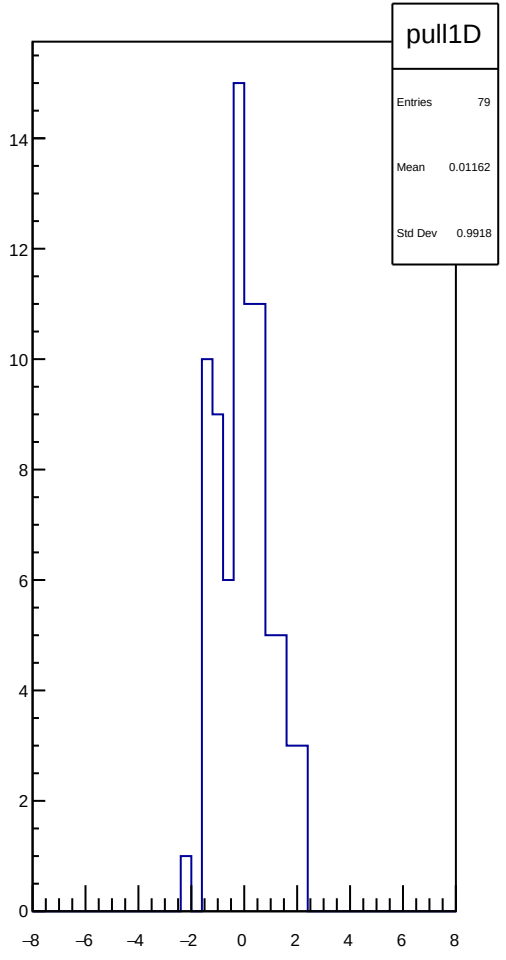

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 2221 / 78
p0 3497 ± 2.826
4000
3800
3600
3400
3200

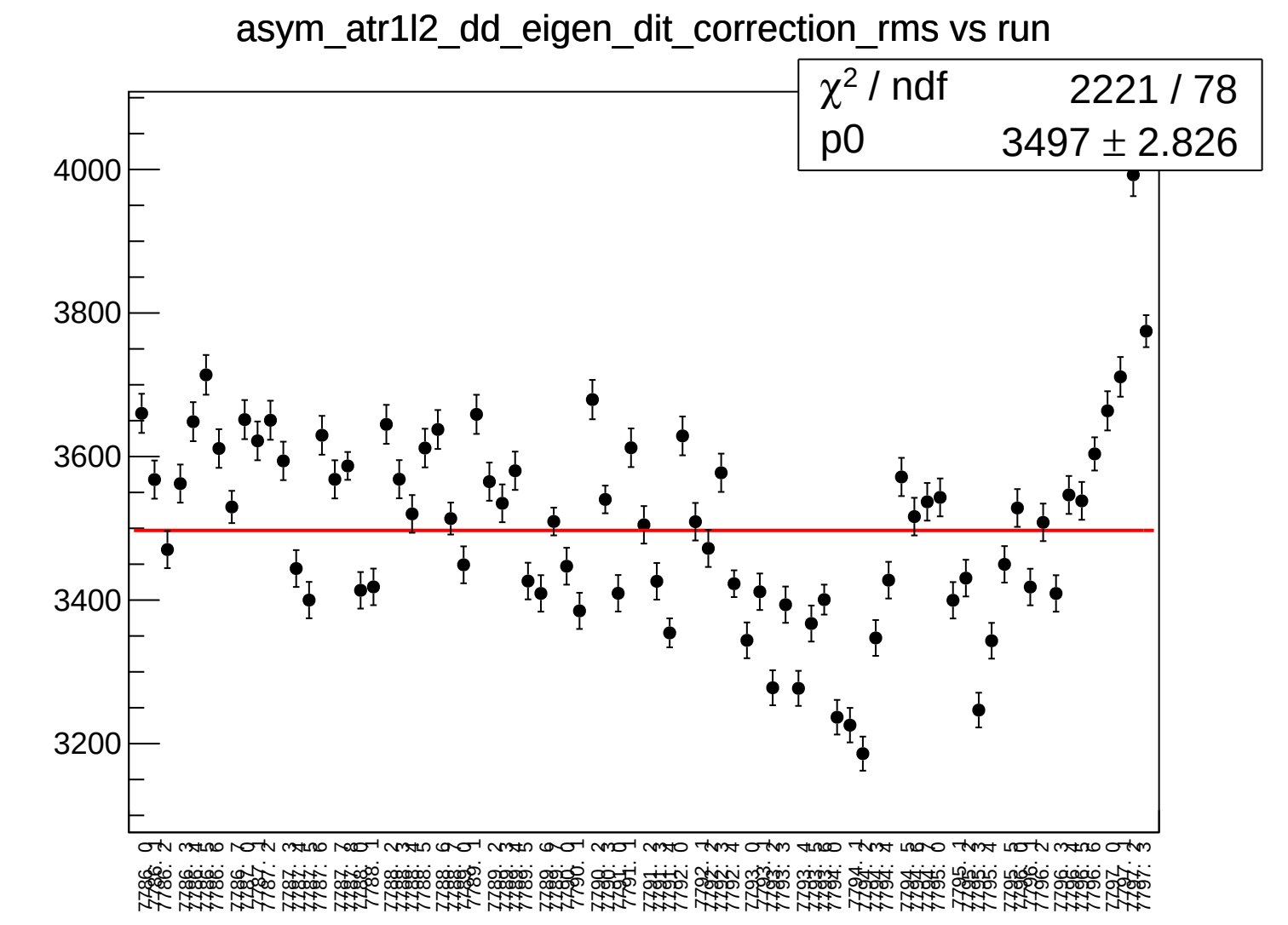

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 57.5 / 78
p0 −2101 ± 2031
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −52.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

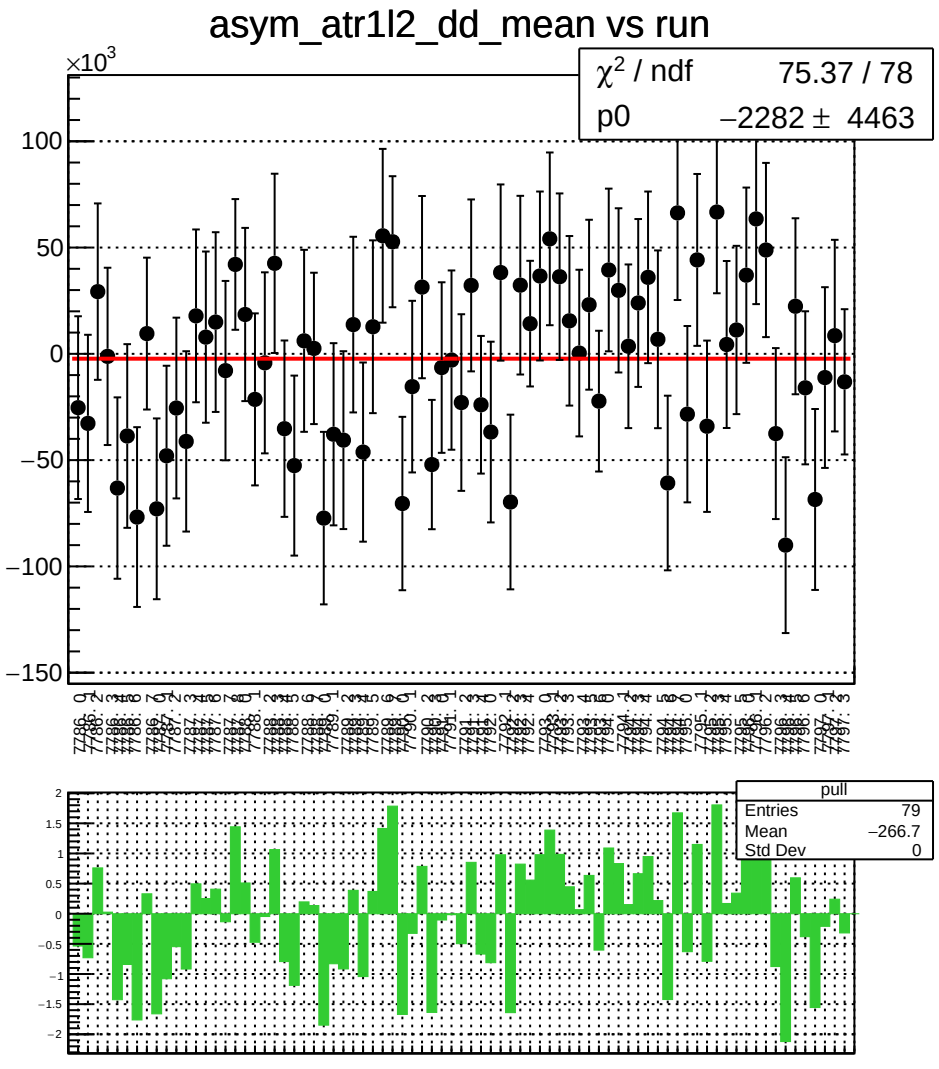

pull1D
Entries 79
Mean −0.01216
Std Dev 0.8531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

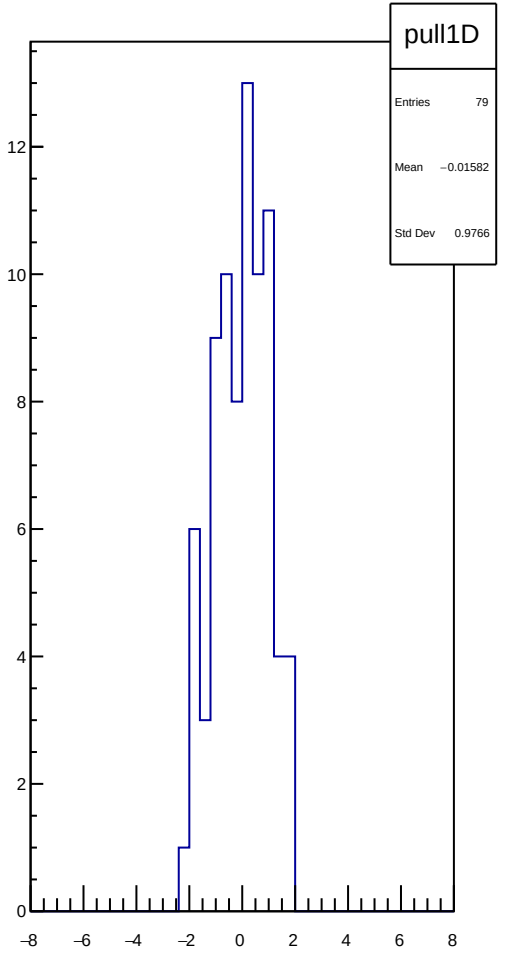

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 103.8 / 78
p0 1779 ± 1.436
1820
1800
1780
1760
1740
1720

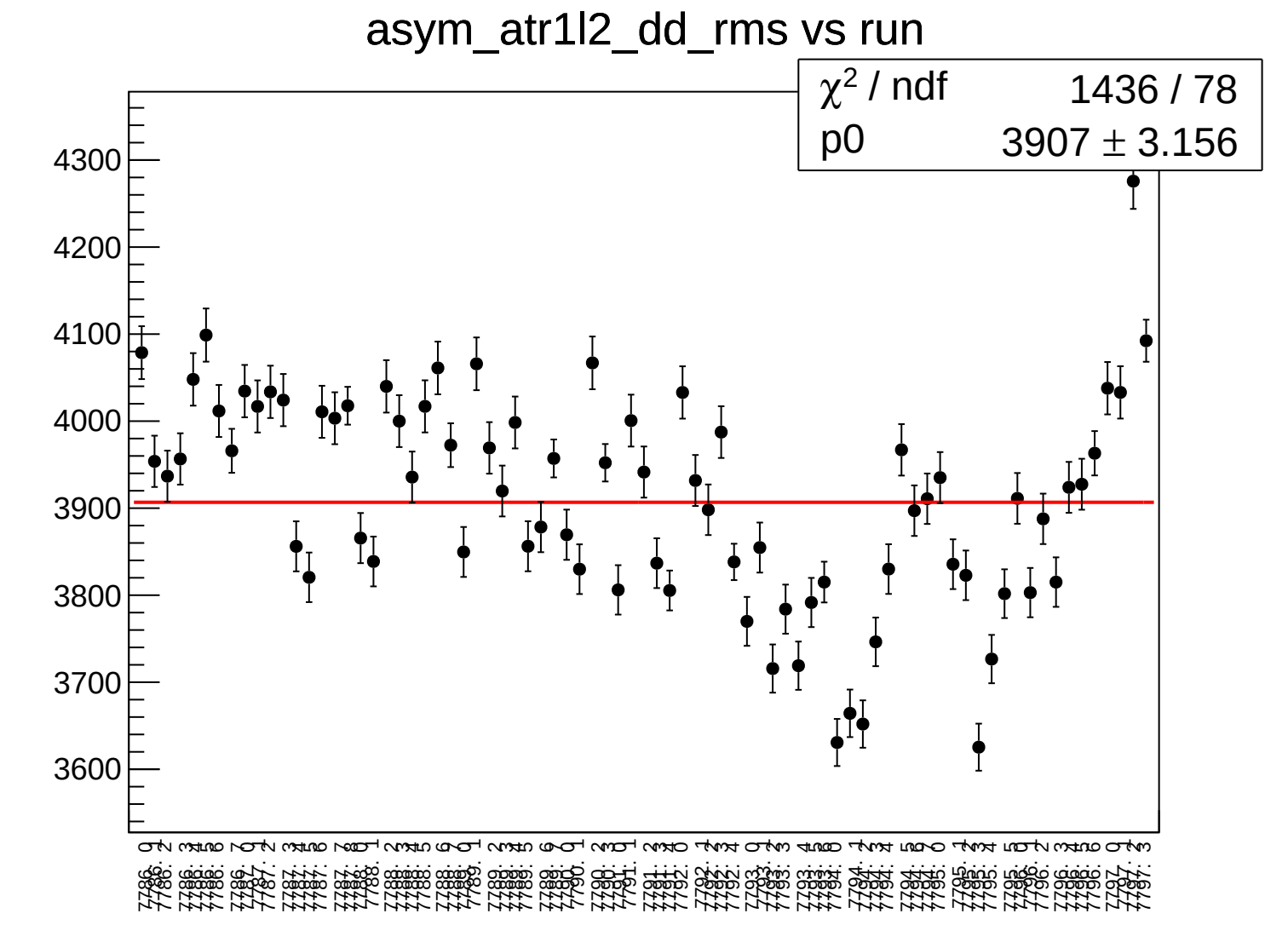

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.72 / 78
p0 184.6 ± 3996
100
50
0
−50
−100
pull
Entries 79
Mean −371.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

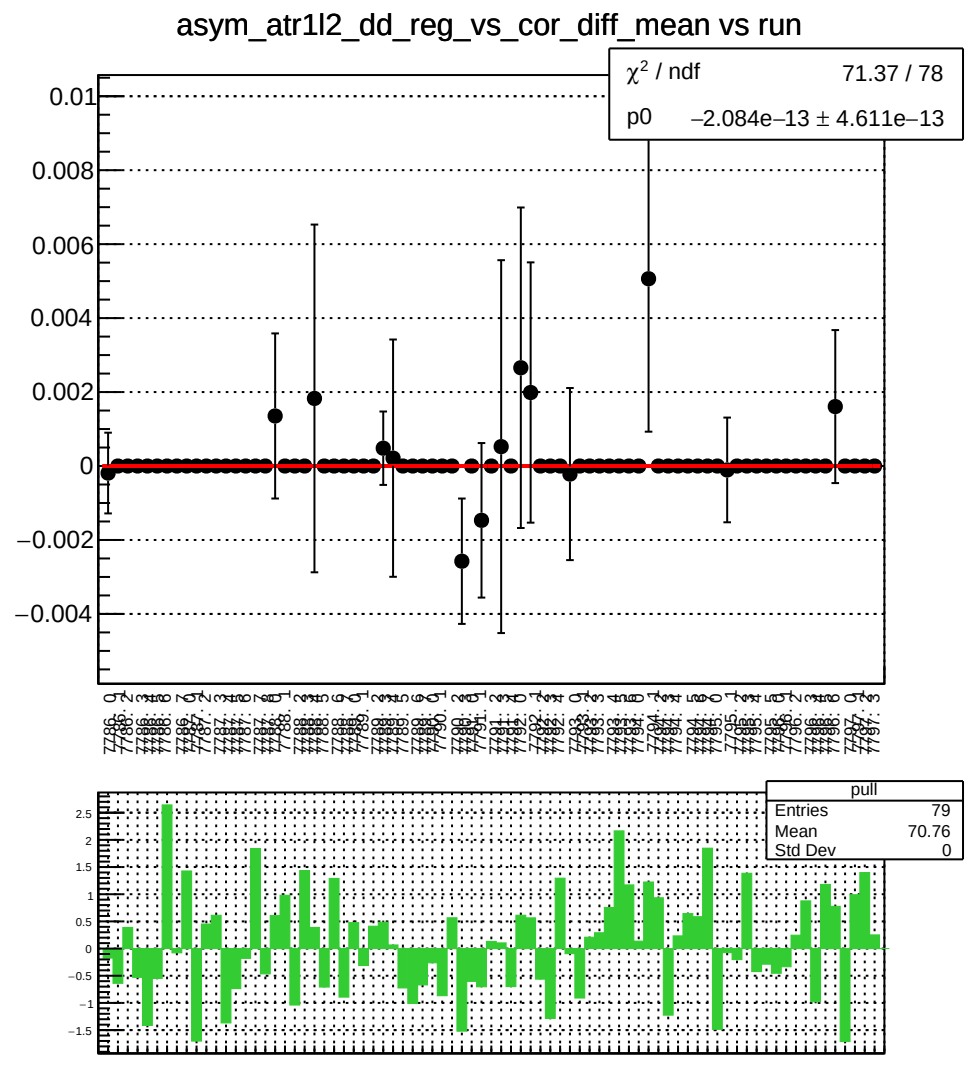

pull1D
Entries 79
Mean 0.01162
Std Dev 0.9918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

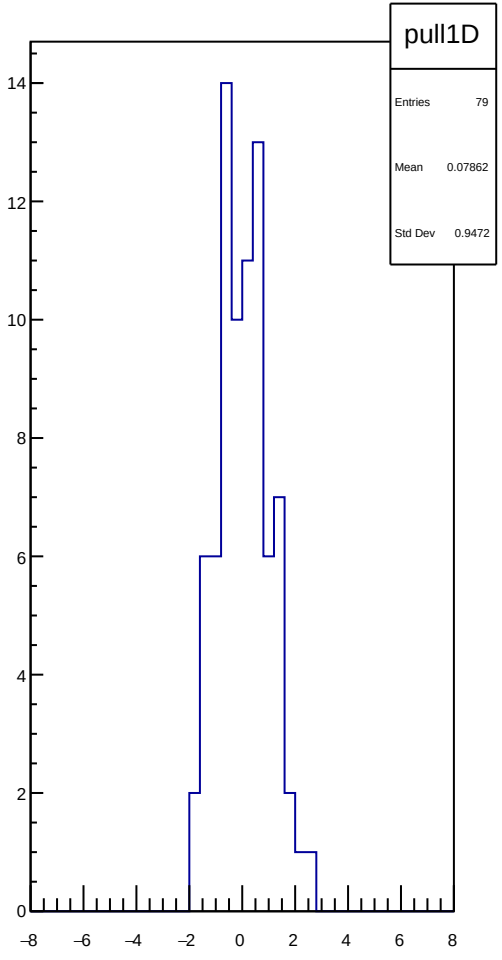

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2221 / 78
p0 3497 ± 2.826
4000
3800
3600
3400
3200

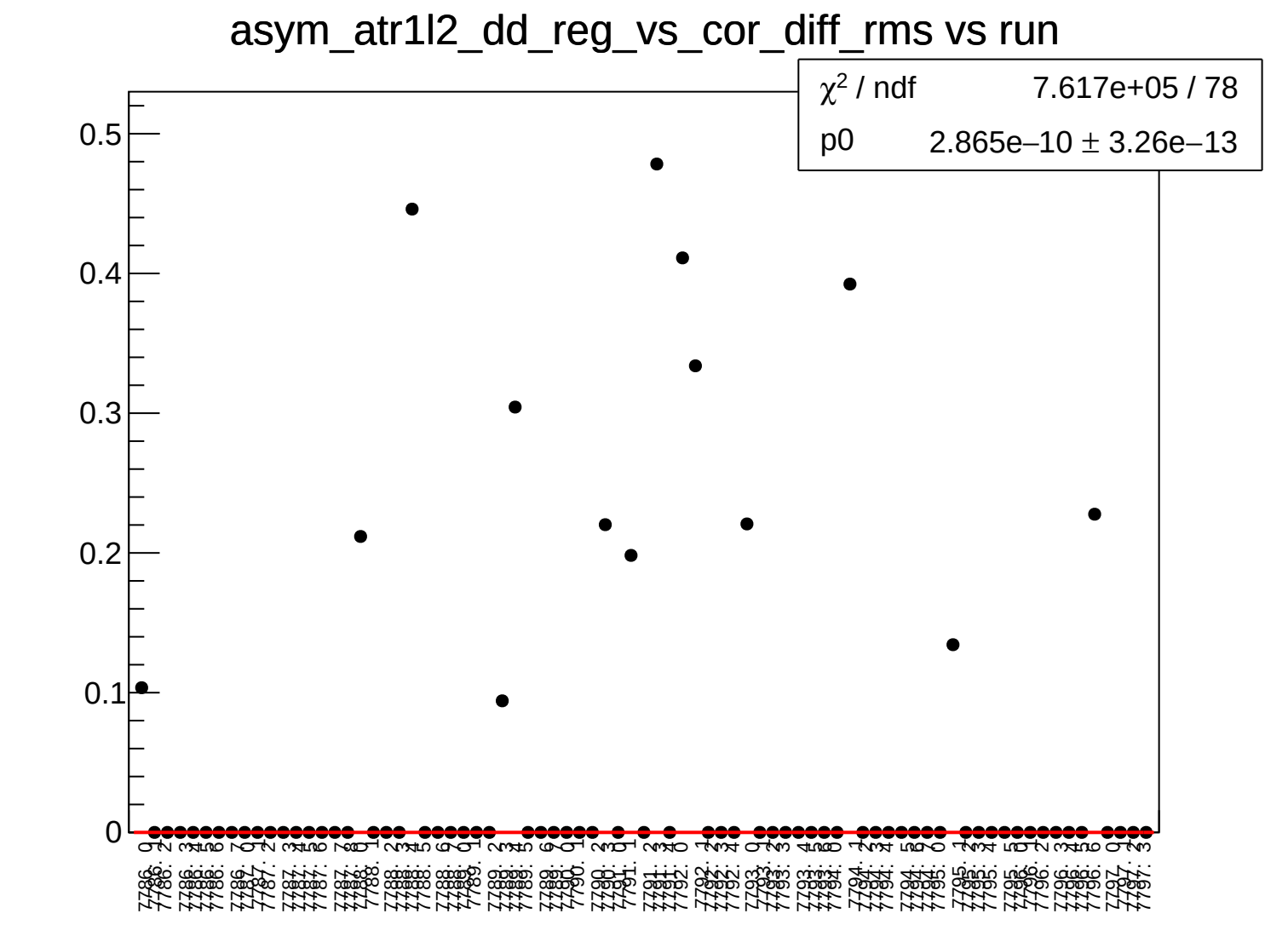

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 75.37 / 78
p0 −2282 ± 4463
100
50
0
−50
−100
−150
pull
Entries 79
Mean −266.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

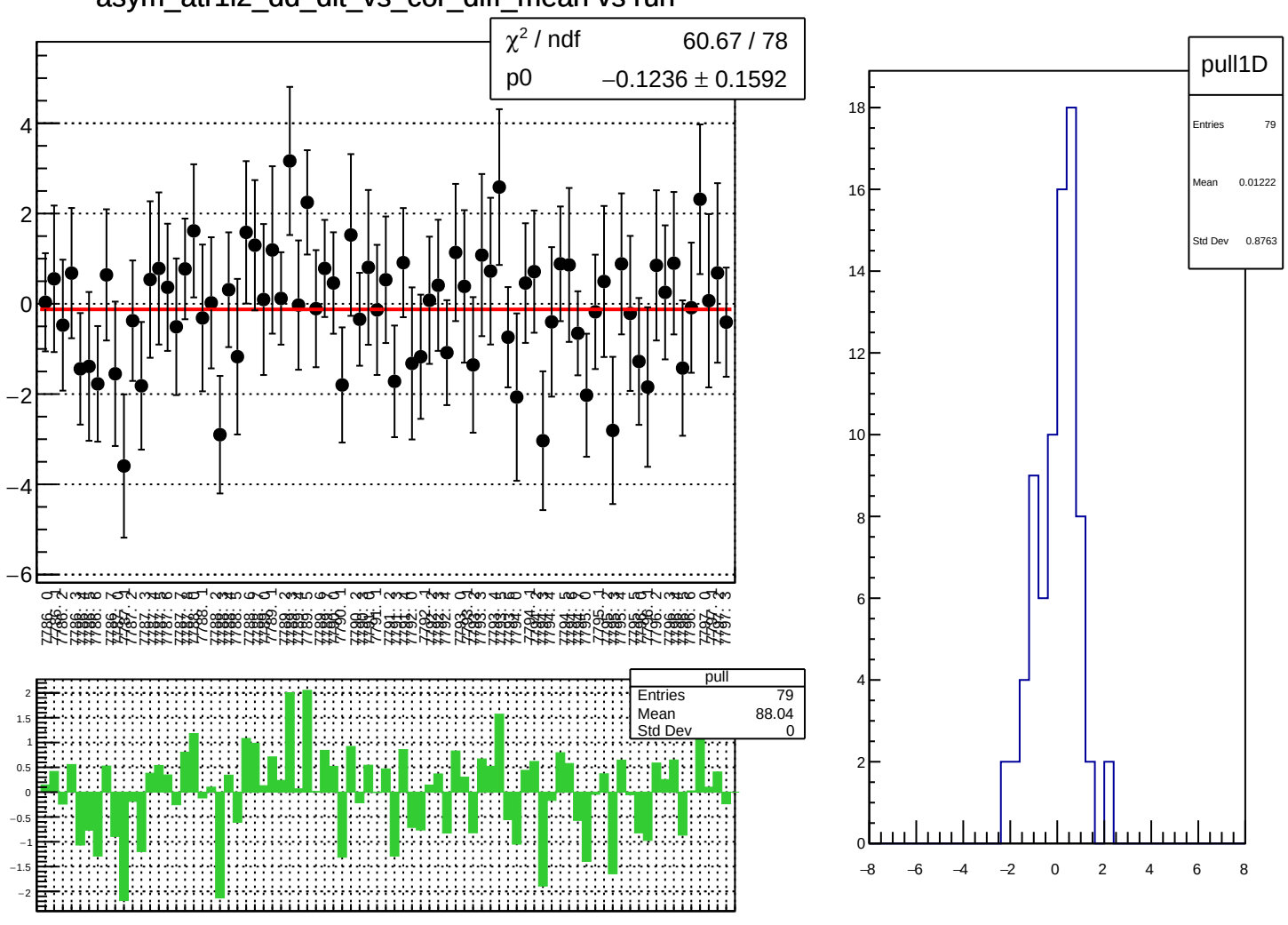

pull1D
Entries 79
Mean −0.01582
Std Dev 0.9766
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

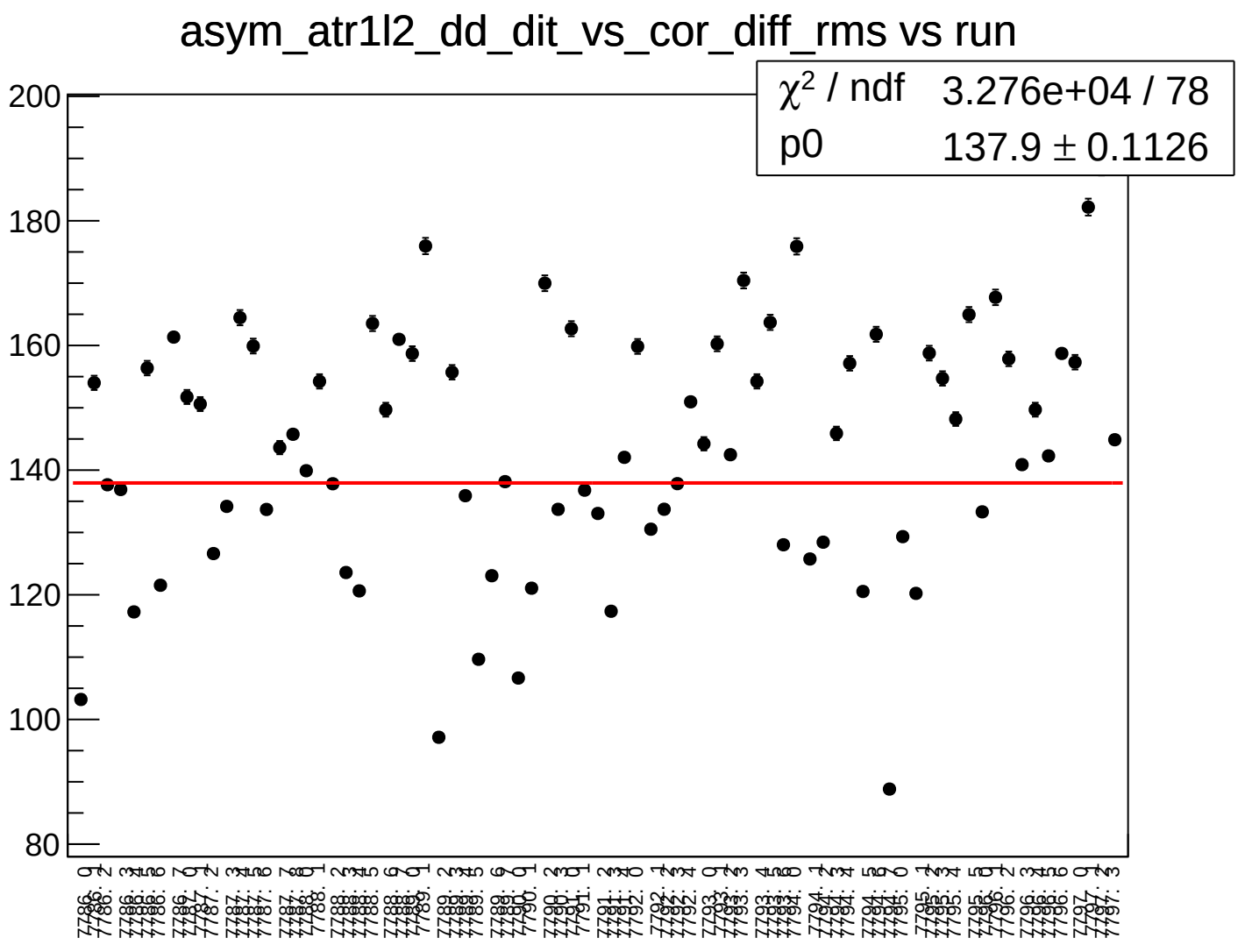

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1436 / 78
p0 3907 ± 3.156
4300
4200
4100
4000
3900
3800
3700
3600

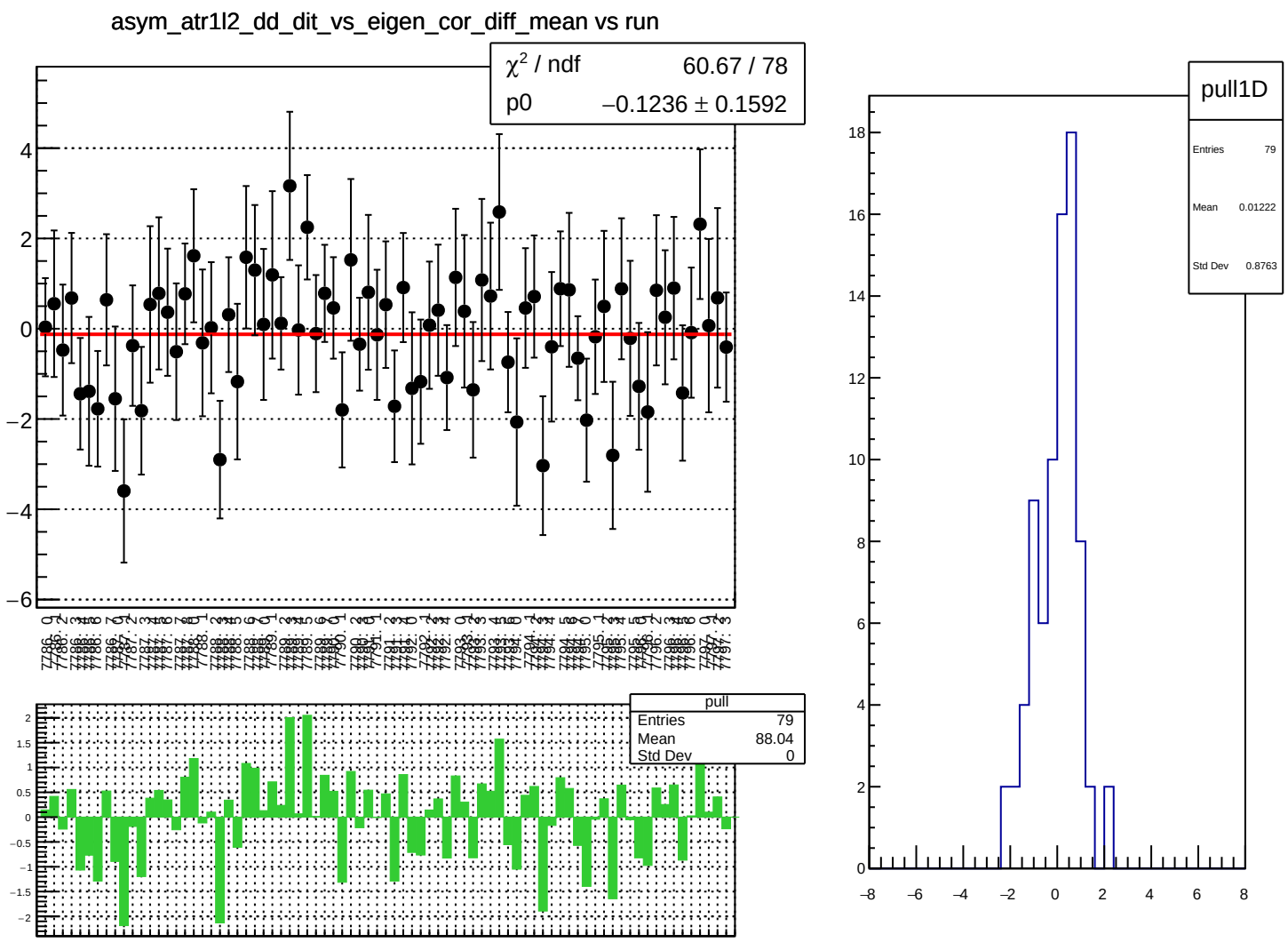

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.37 / 78
p0 −2.084e−13 ± 4.611e−13
pull
Entries 79
Mean 70.76
Std Dev 0

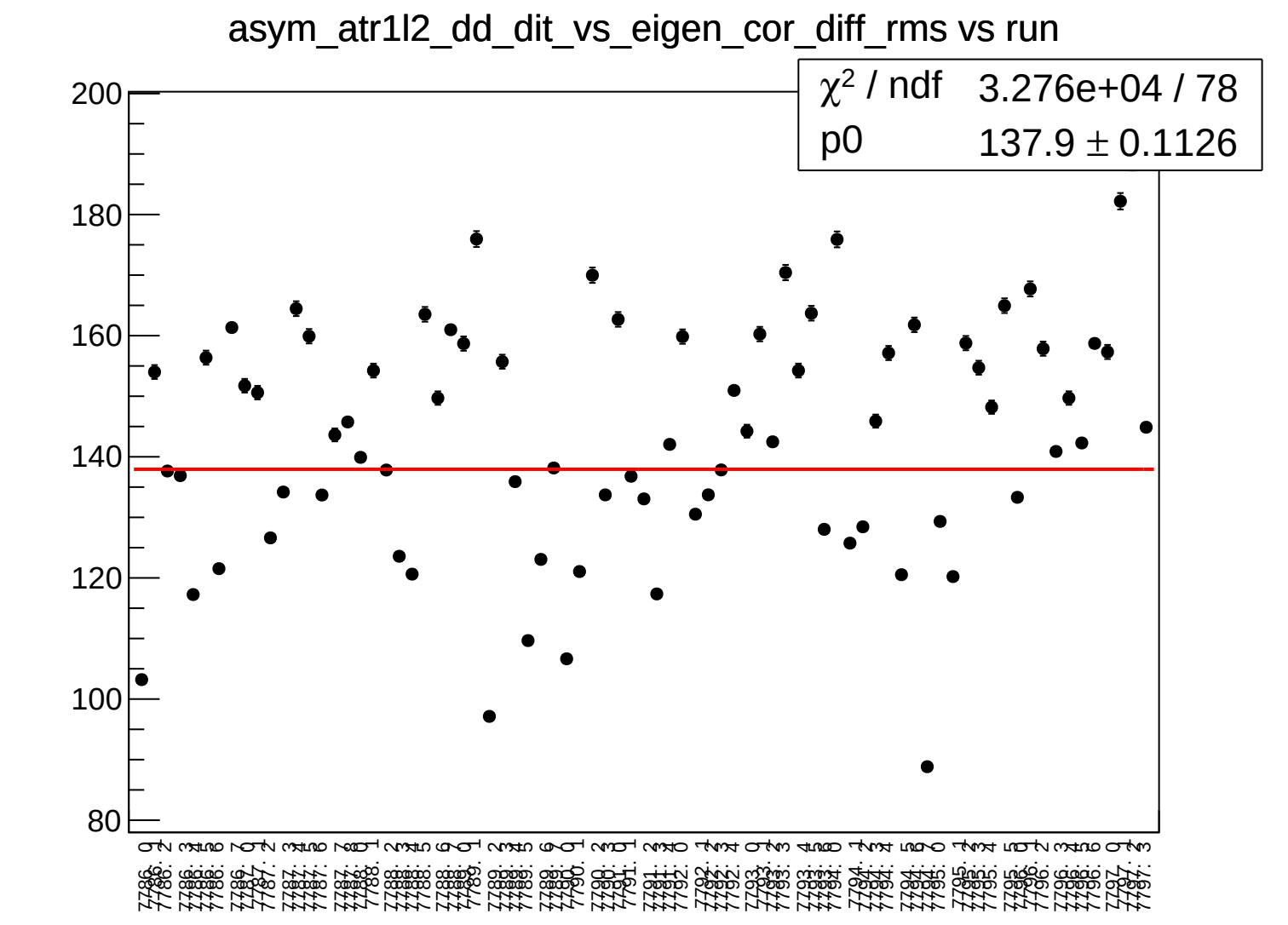

pull1D
Entries 79
Mean 0.07862
Std Dev 0.9472

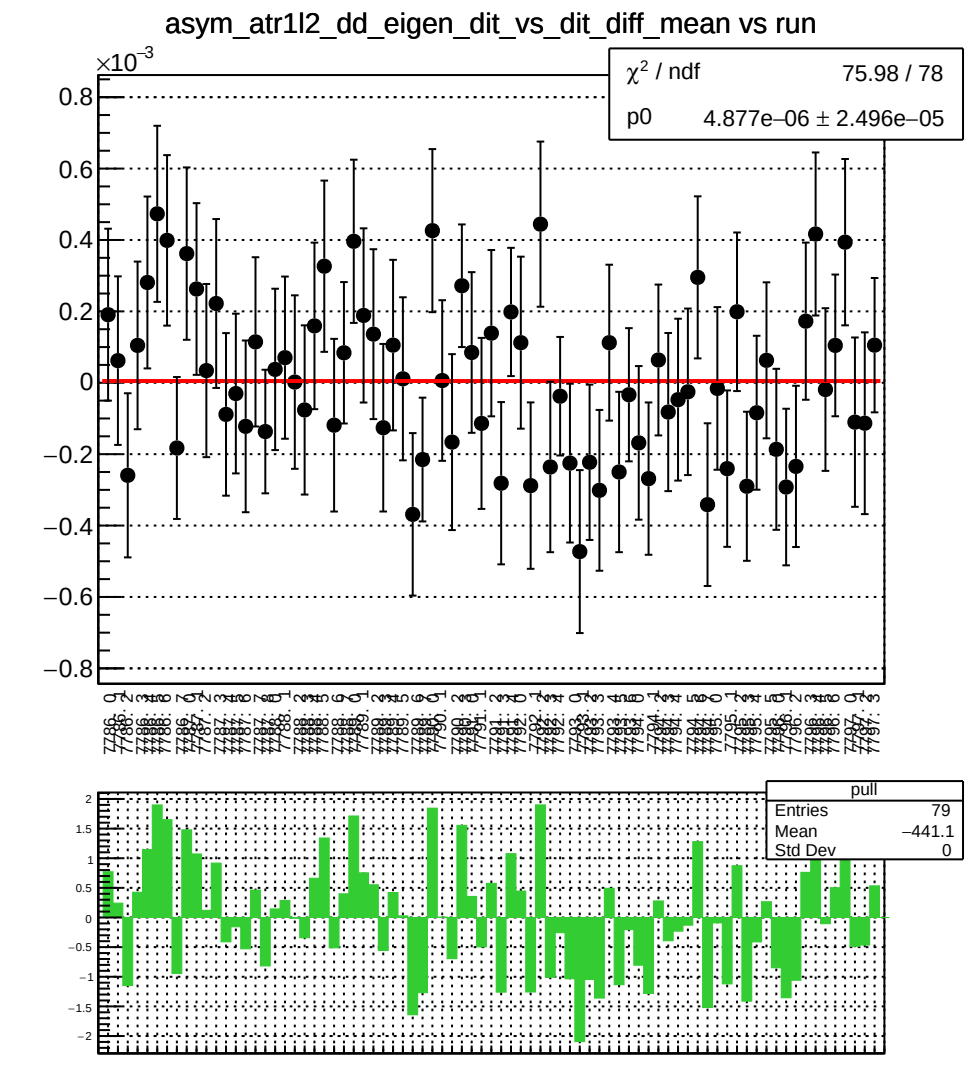

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.617e+05 / 78
p0 2.865e−10 ± 3.26e−13
0.5
0.4
0.3
0.2
0.1
0

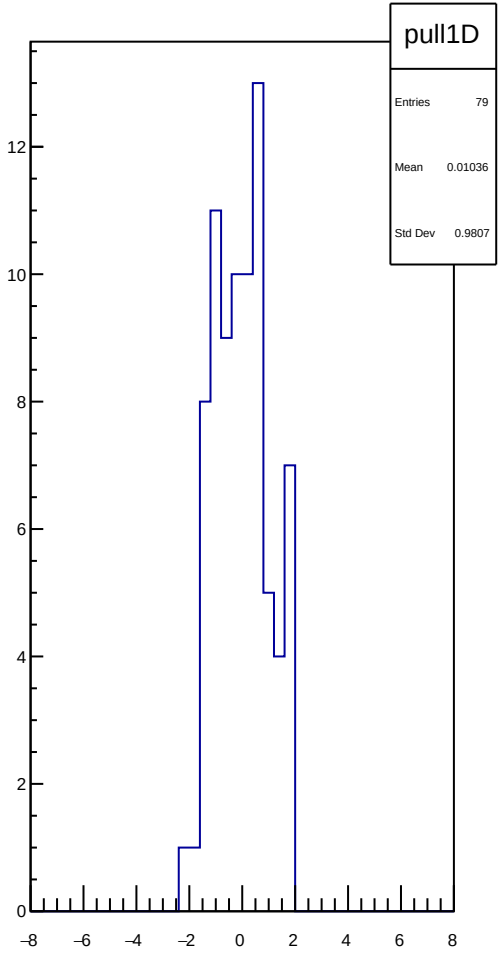

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 60.67 / 78
p0 −0.1236 ± 0.1592
pull
Entries 79
Mean 88.04
Std Dev 0
pull1D
Entries 79
Mean 0.01222
Std Dev 0.8763

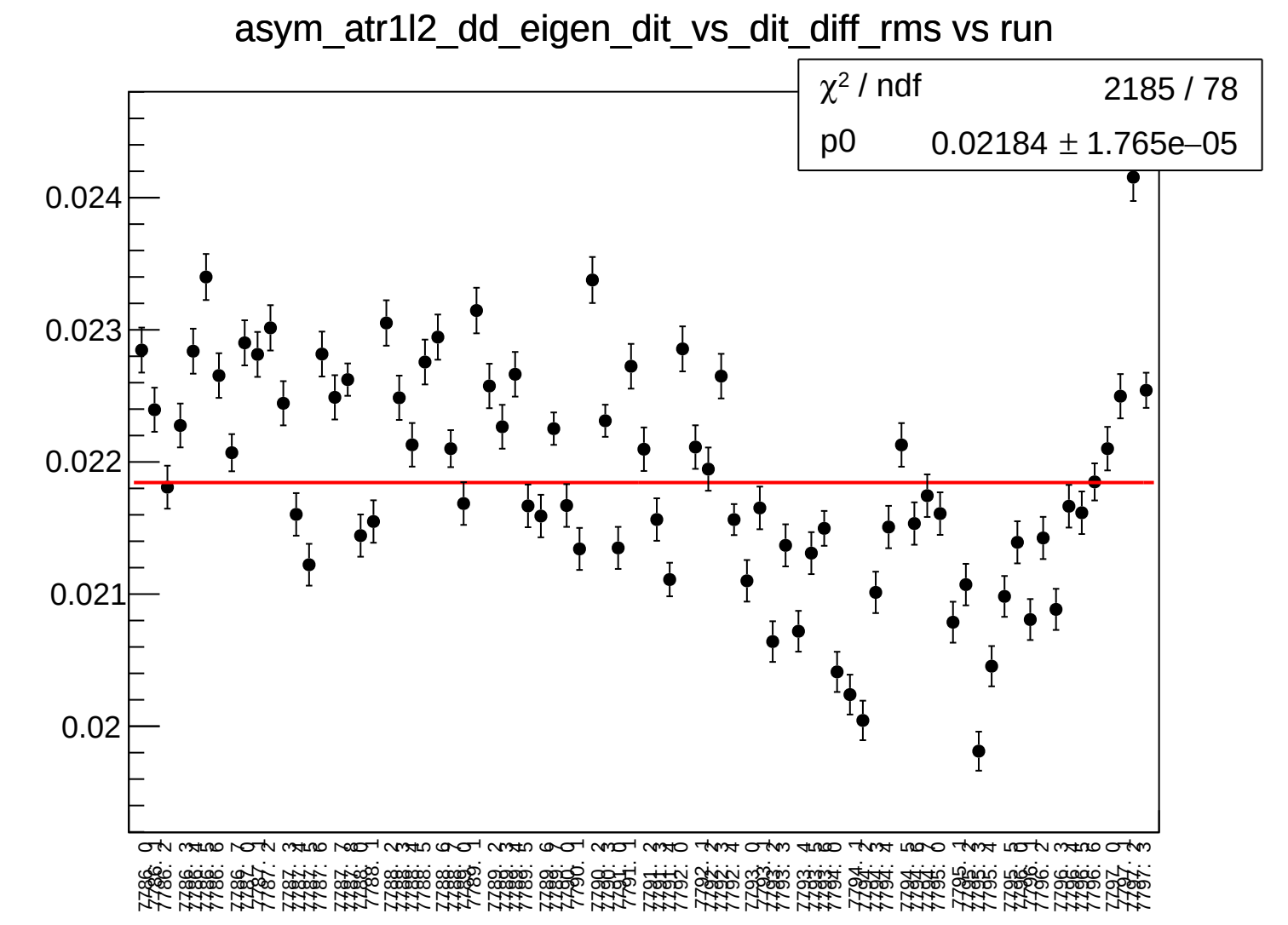

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.276e+04 / 78
p0 137.9 ± 0.1126
200
180
160
140
120
100
80

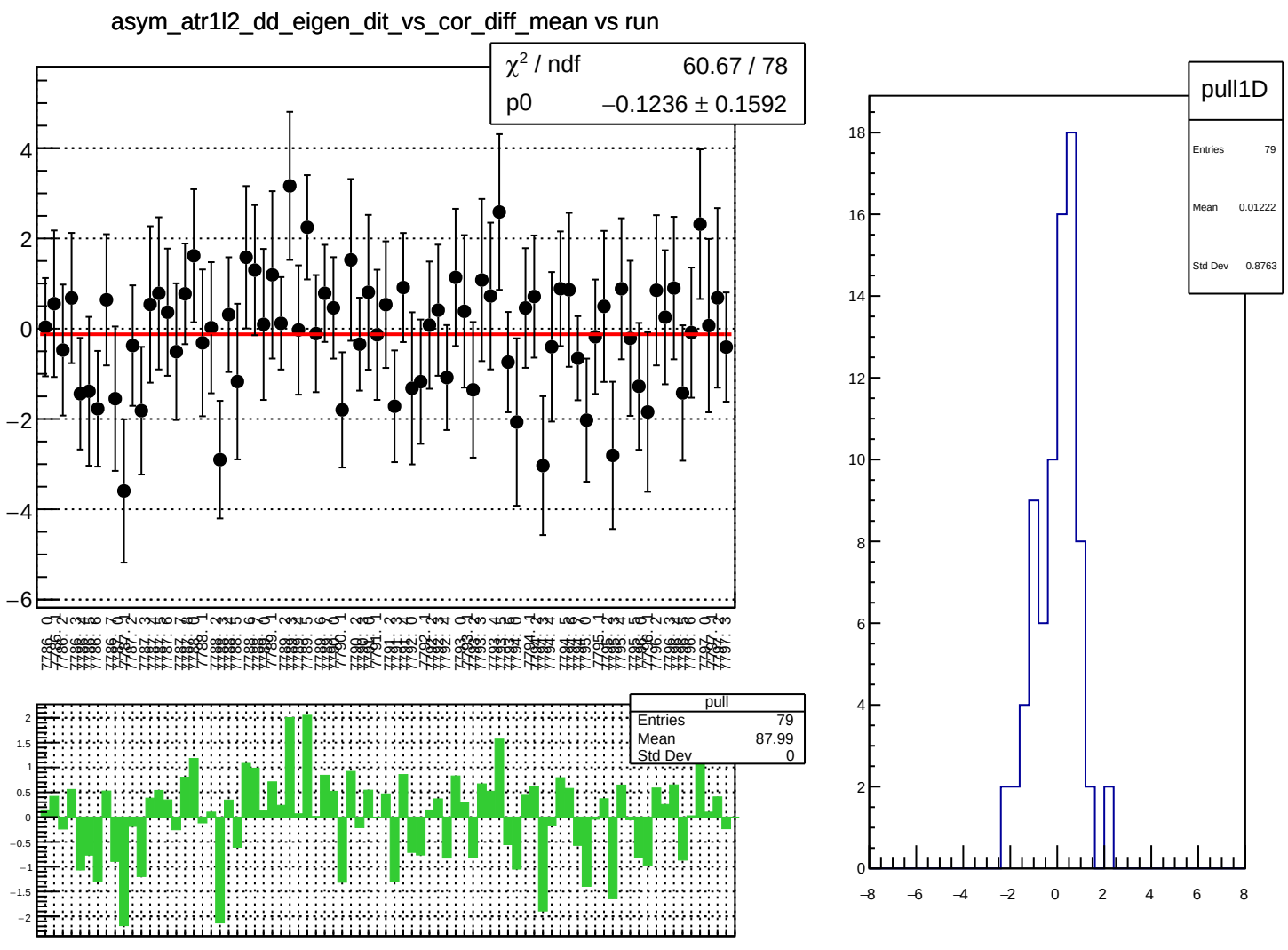

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.67 / 78
p0 −0.1236 ± 0.1592
pull
Entries 79
Mean 88.04
Std Dev 0
pull1D
Entries 79
Mean 0.01222
Std Dev 0.8763

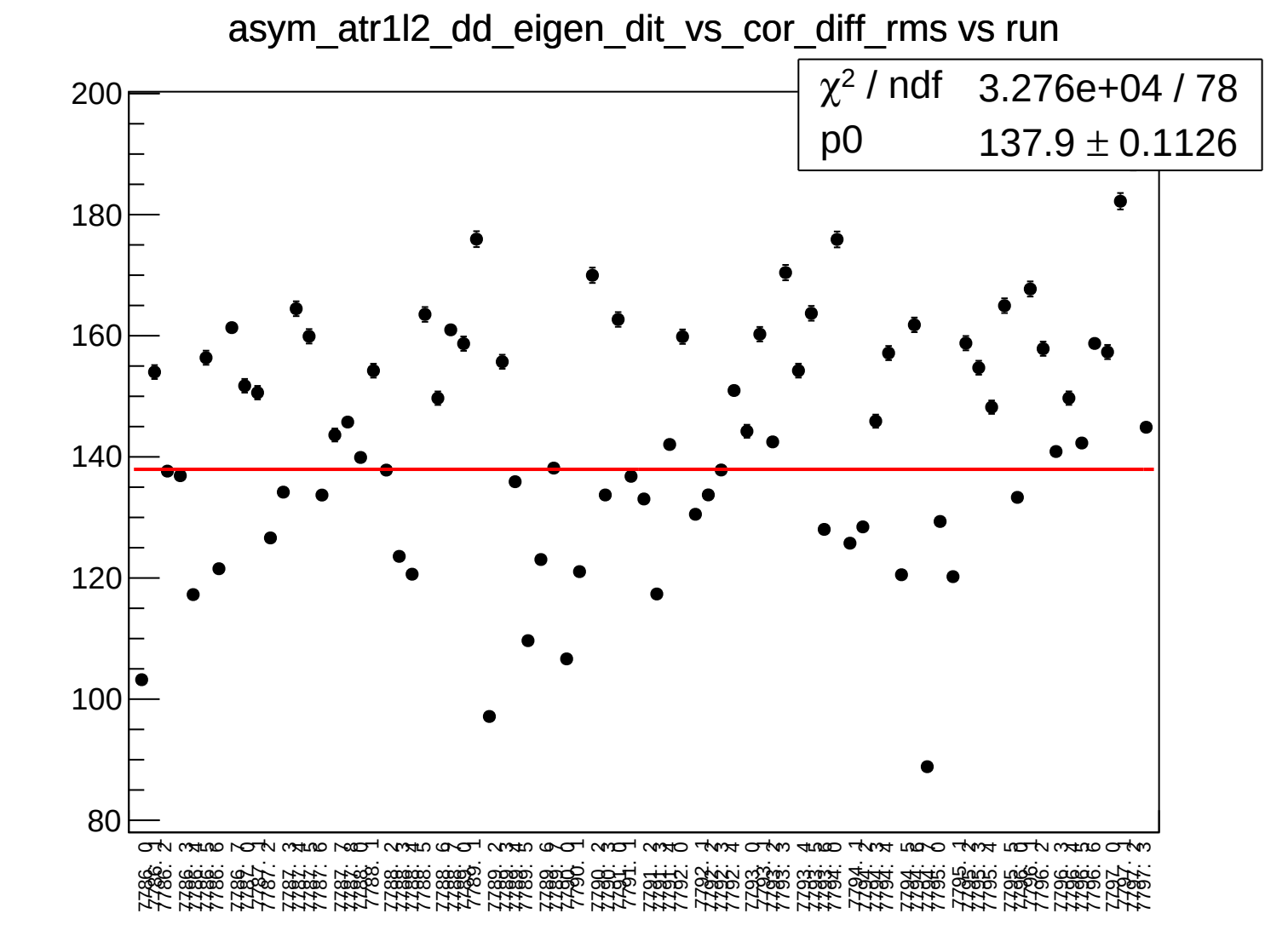

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.276e+04 / 78
p0 137.9 ± 0.1126
200
180
160
140
120
100
80

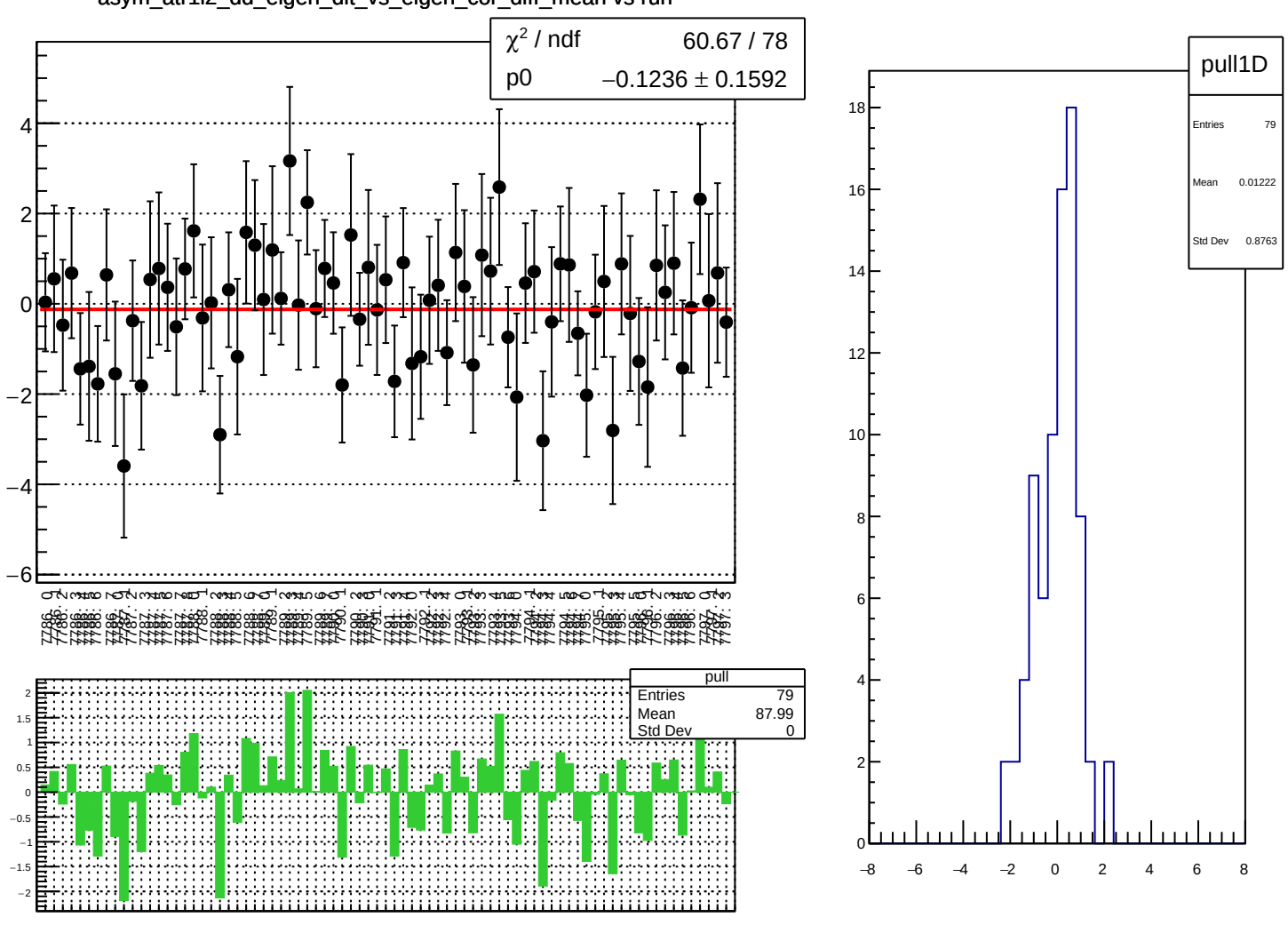

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.98 / 78
p0 4.877e−06 ± 2.496e−05
pull
Entries 79
Mean −441.1
Std Dev 0

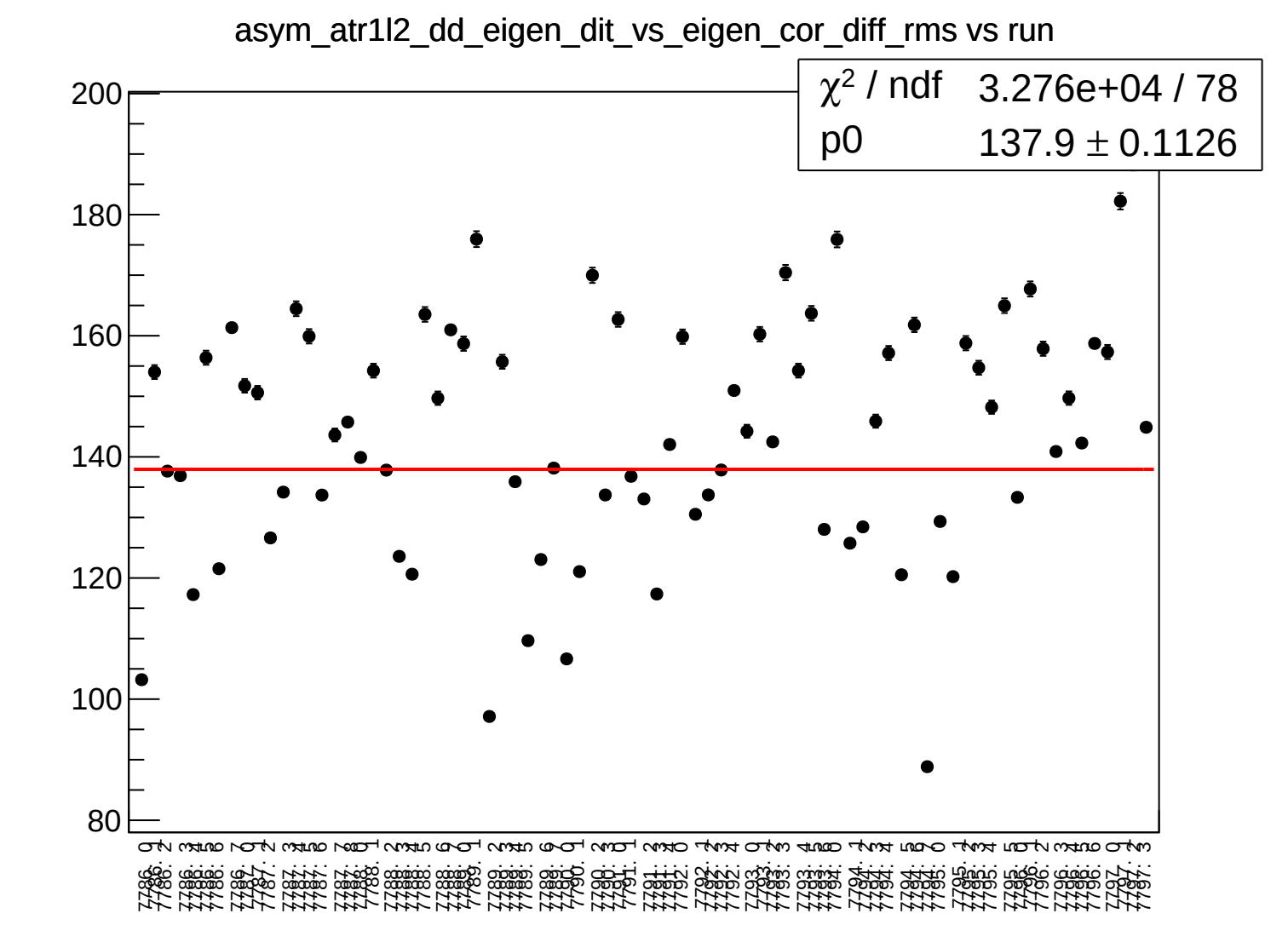

pull1D
Entries 79
Mean 0.01036
Std Dev 0.9807

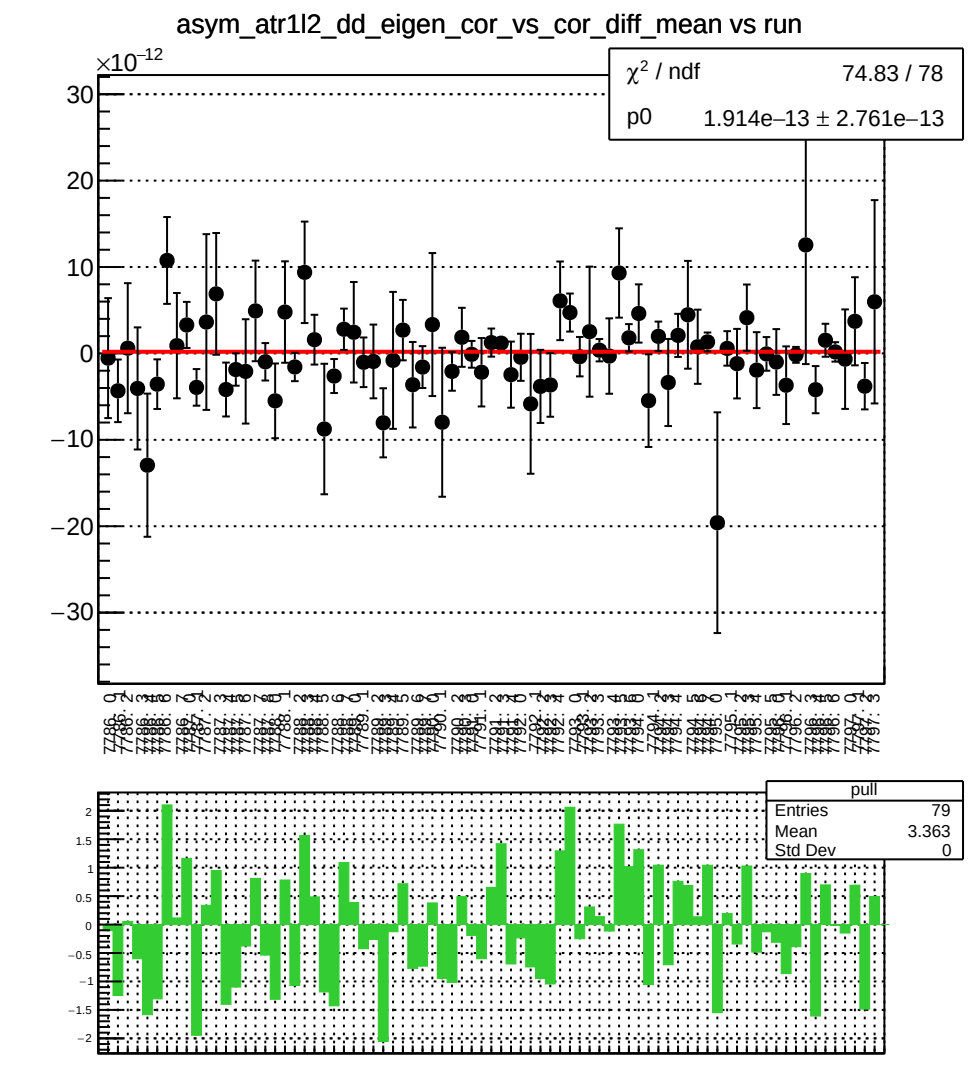

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2185 / 78
p0 0.02184 ± 1.765e−05
0.024
0.023
0.022
0.021
0.02

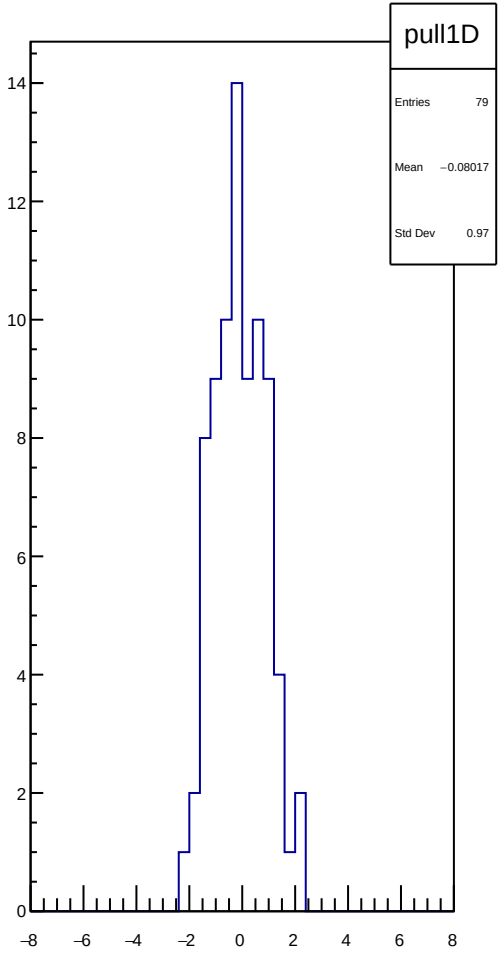

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.67 / 78
p0 −0.1236 ± 0.1592
pull
Entries 79
Mean 87.99
Std Dev 0
pull1D
Entries 79
Mean 0.01222
Std Dev 0.8763

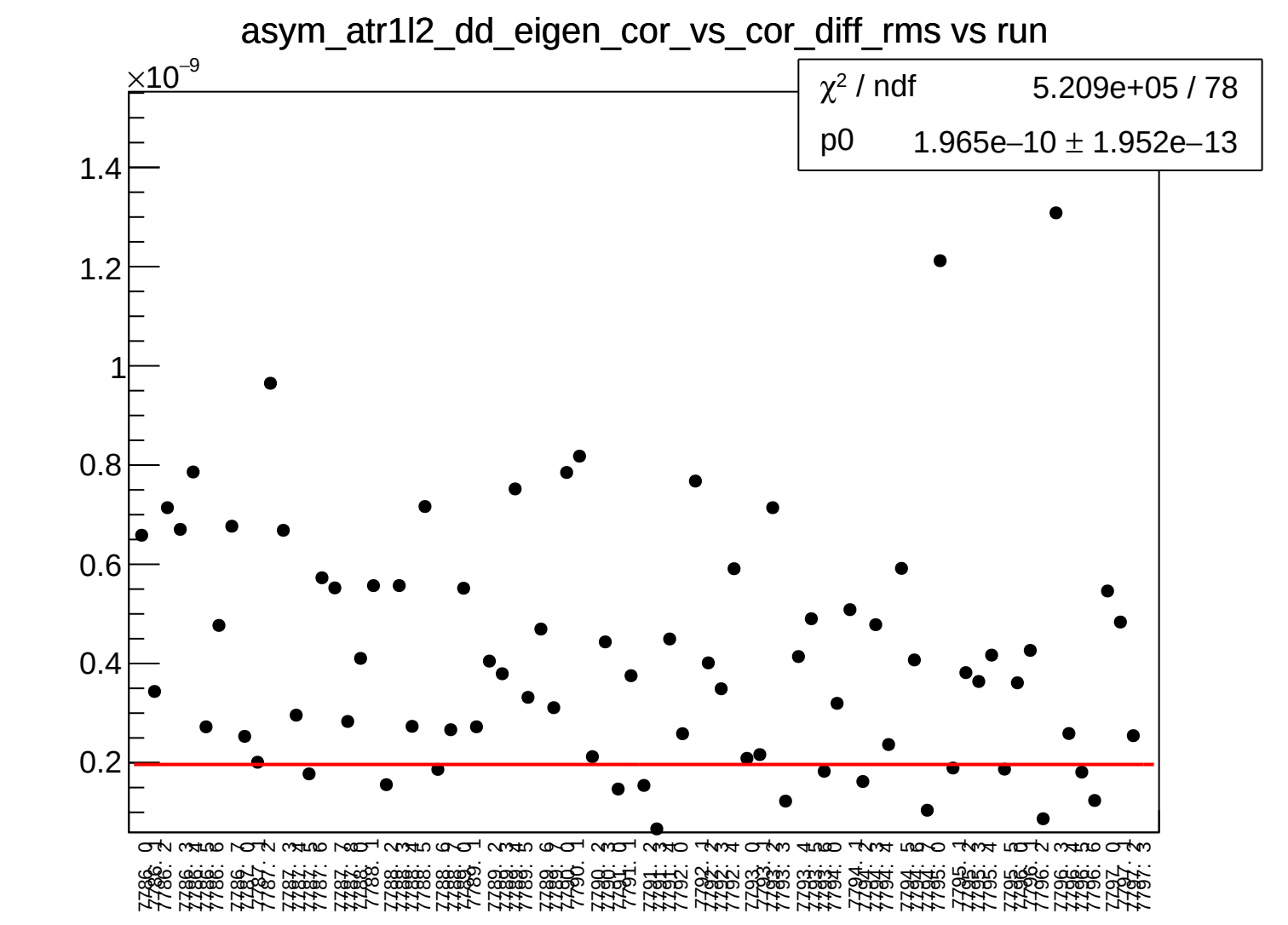

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.276e+04 / 78
p0 137.9 ± 0.1126
200
180
160
140
120
100
80

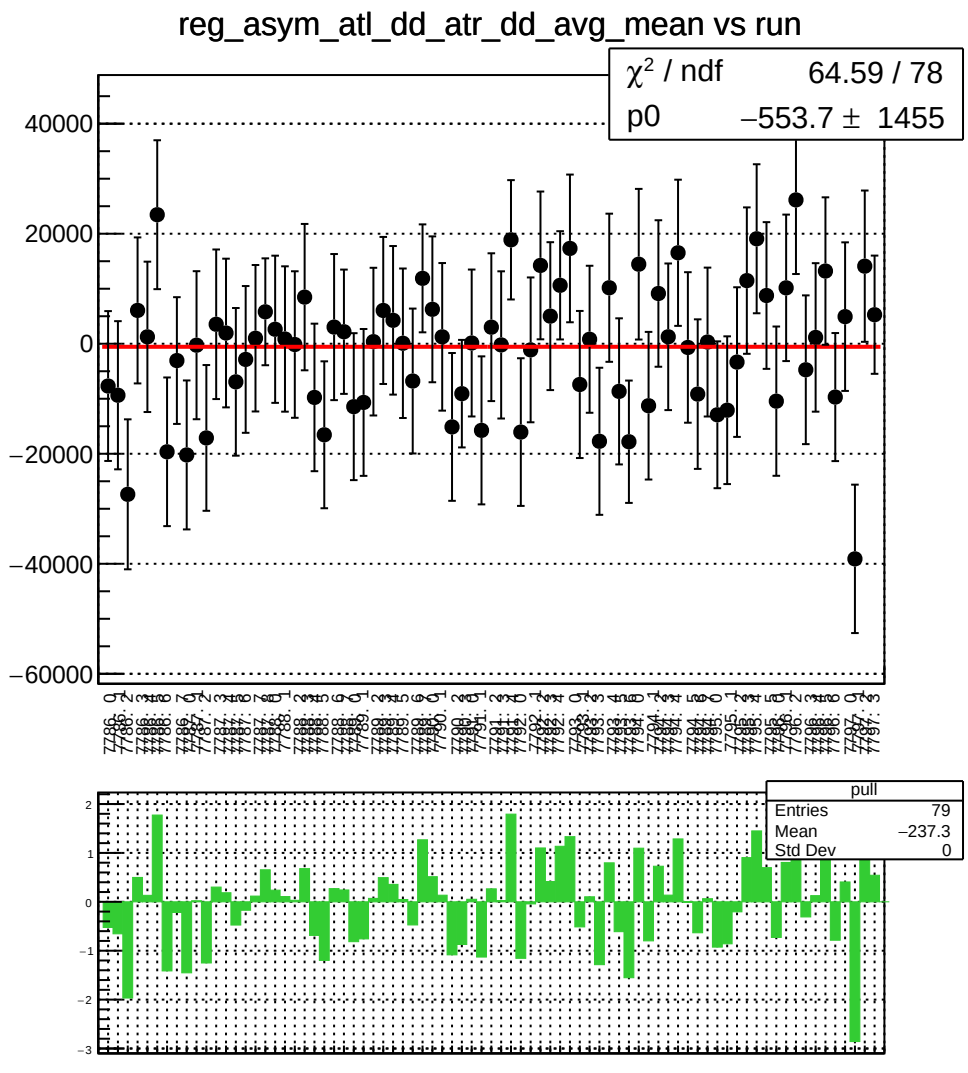

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.67 / 78
p0 −0.1236 ± 0.1592
pull
Entries 79
Mean 87.99
Std Dev 0
pull1D
Entries 79
Mean 0.01222
Std Dev 0.8763

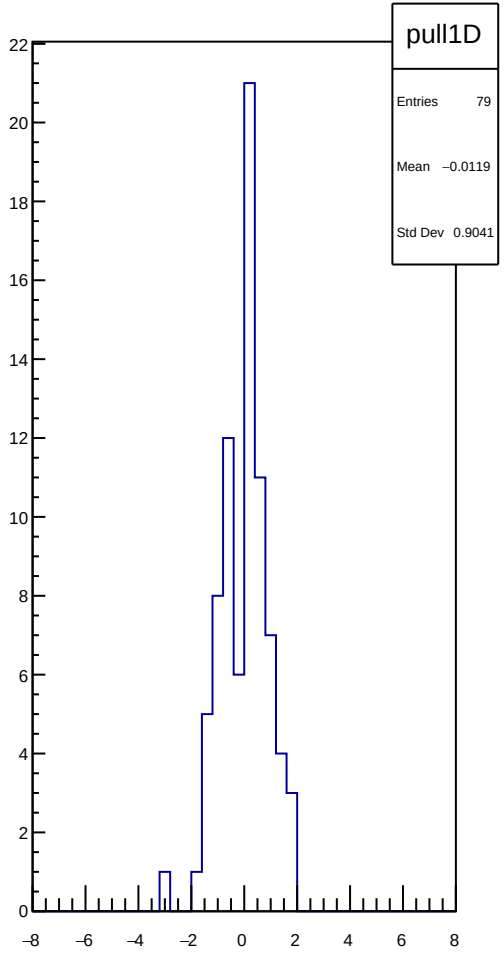

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.276e+04 / 78
p0 137.9 ± 0.1126
200
180
160
140
120
100
80

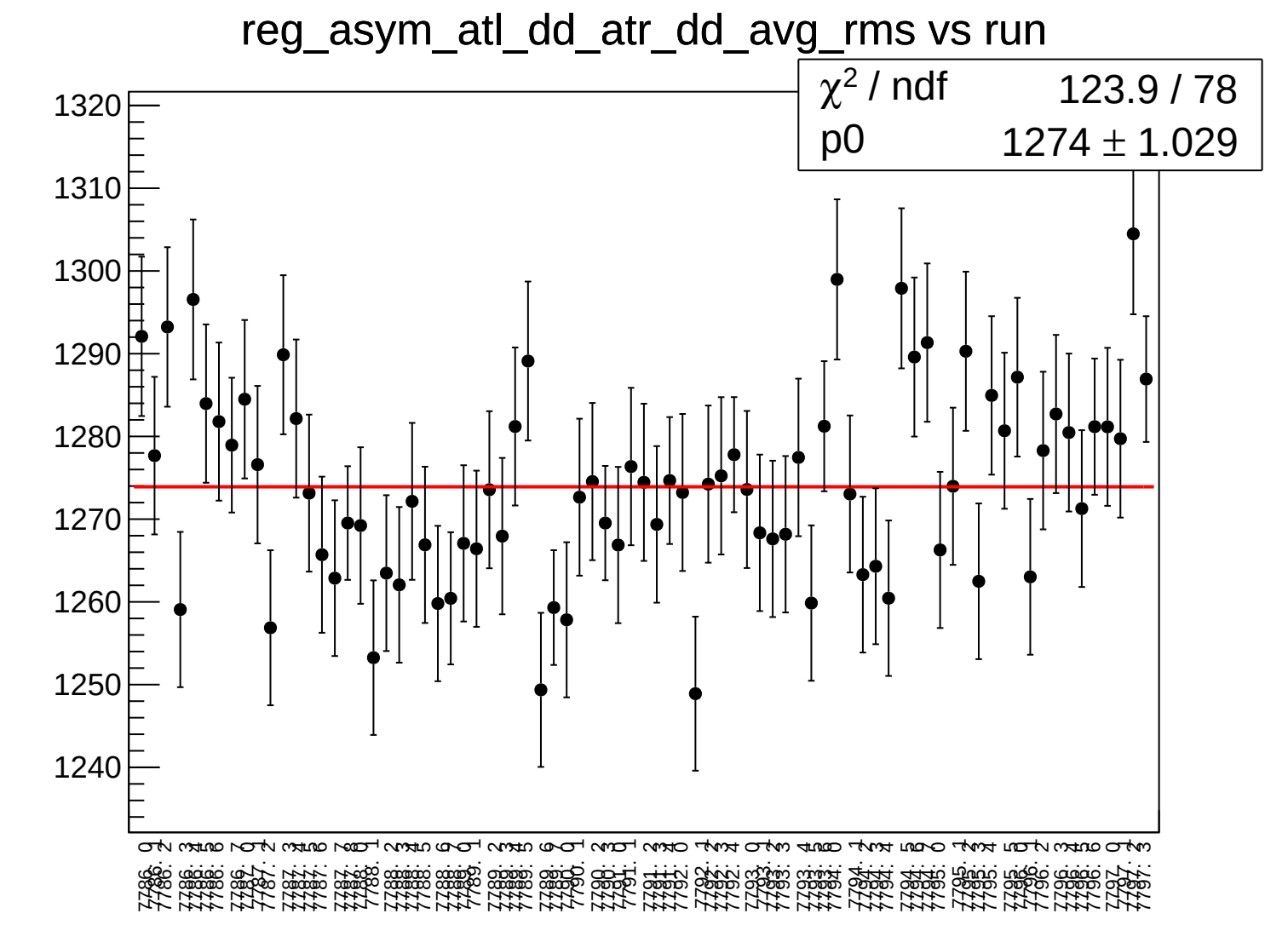

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.83 / 78
p0 1.914e−13 ± 2.761e−13
pull
Entries 79
Mean 3.363
Std Dev 0

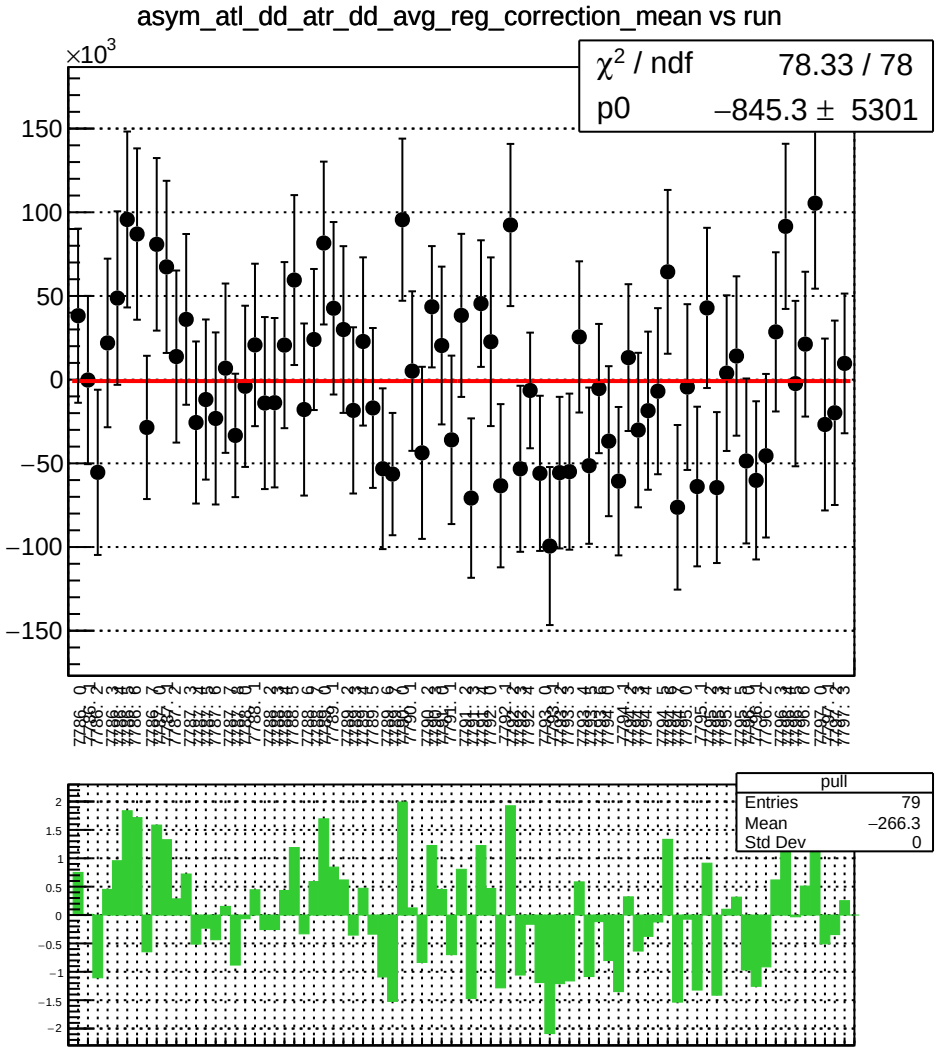

pull1D
Entries 79
Mean −0.08017
Std Dev 0.97

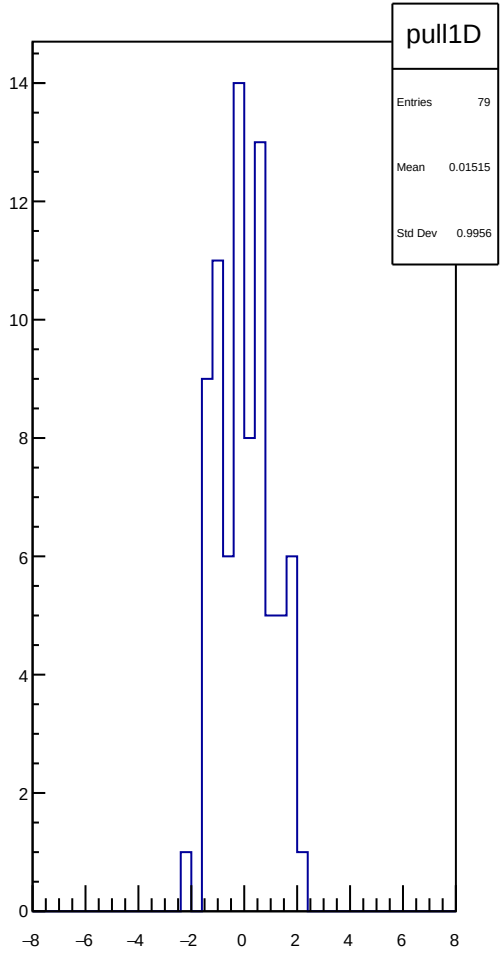

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.209e+05 / 78
p0 1.965e−10 ± 1.952e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

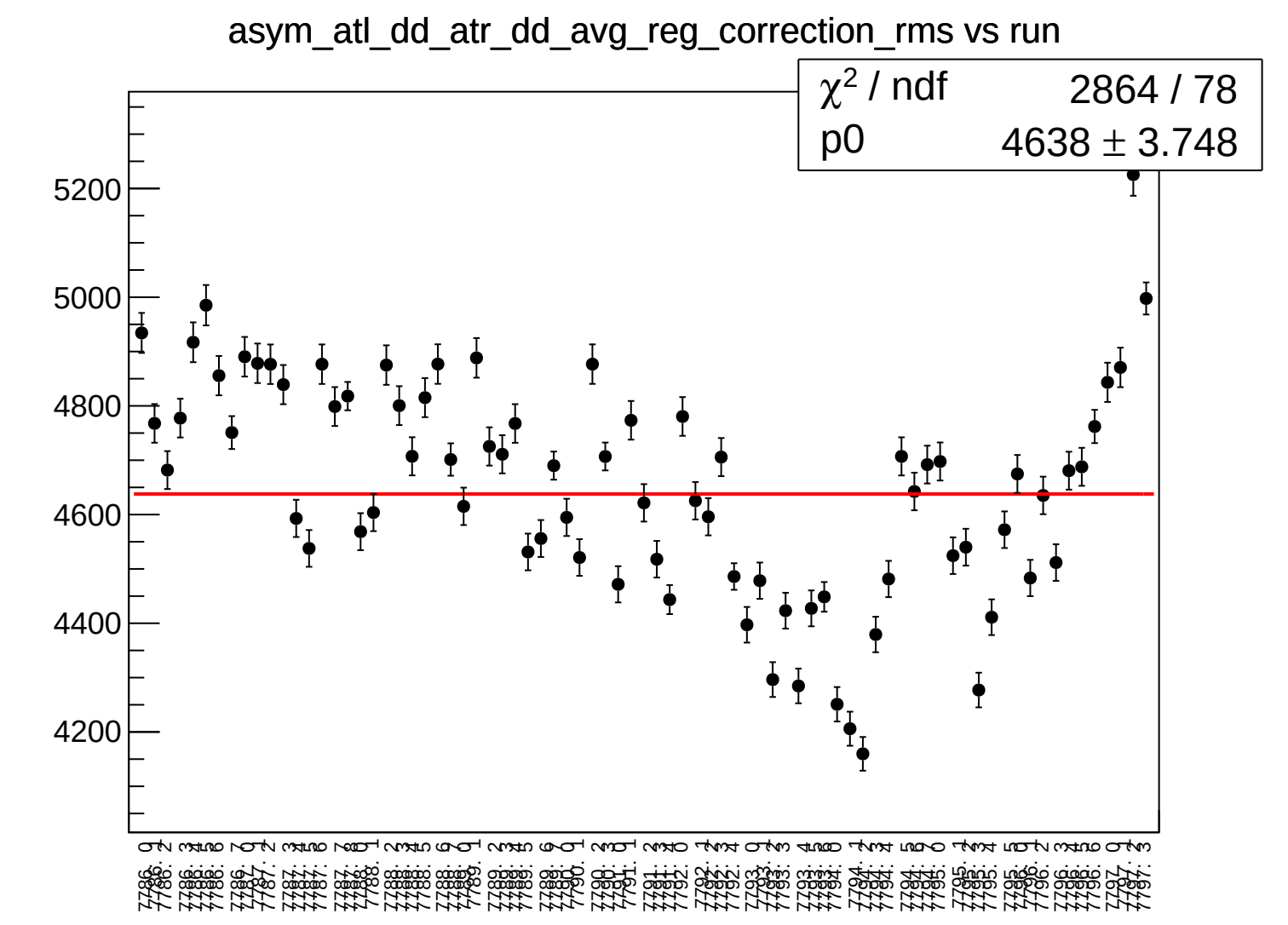

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 64.59 / 78
p0 −553.7 ± 1455
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −237.3
Std Dev 0
2
1
0
−1
−2
−3

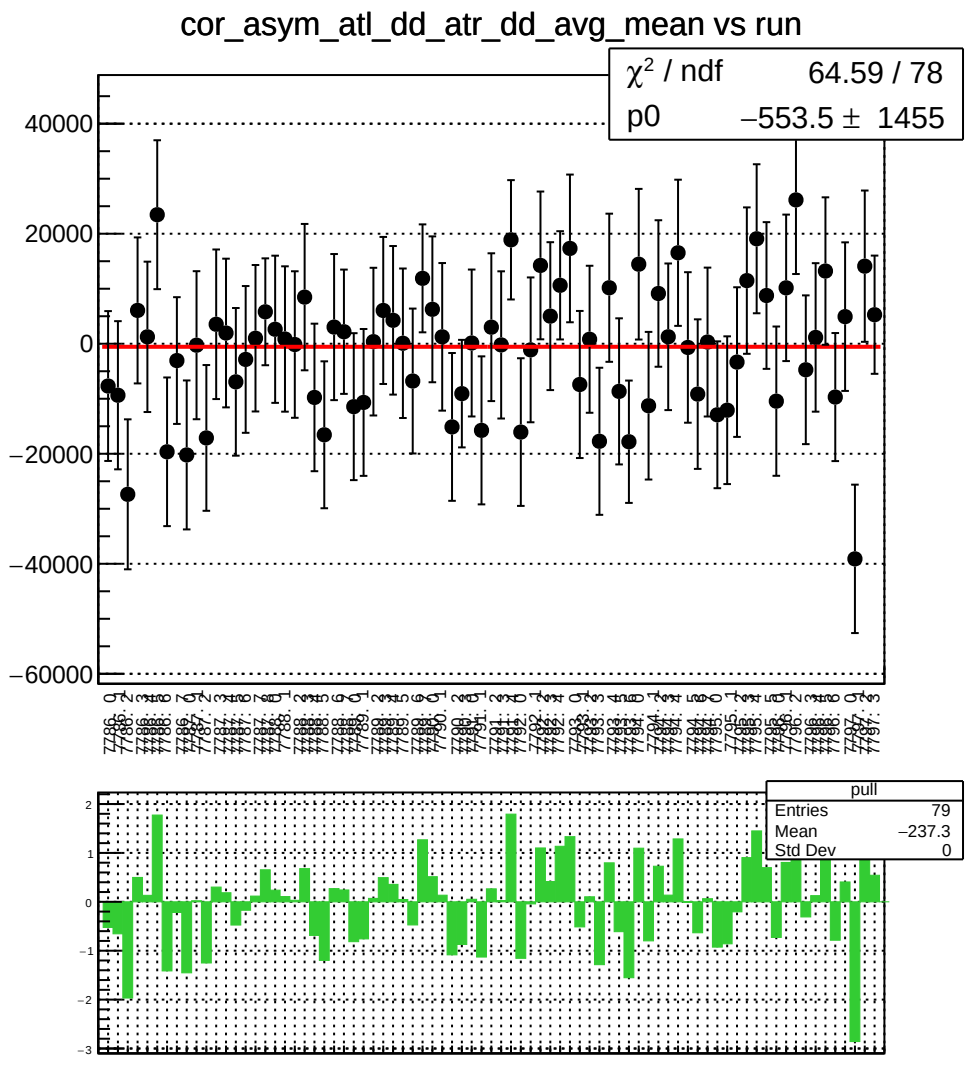

pull1D
Entries 79
Mean −0.0119
Std Dev 0.9041
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

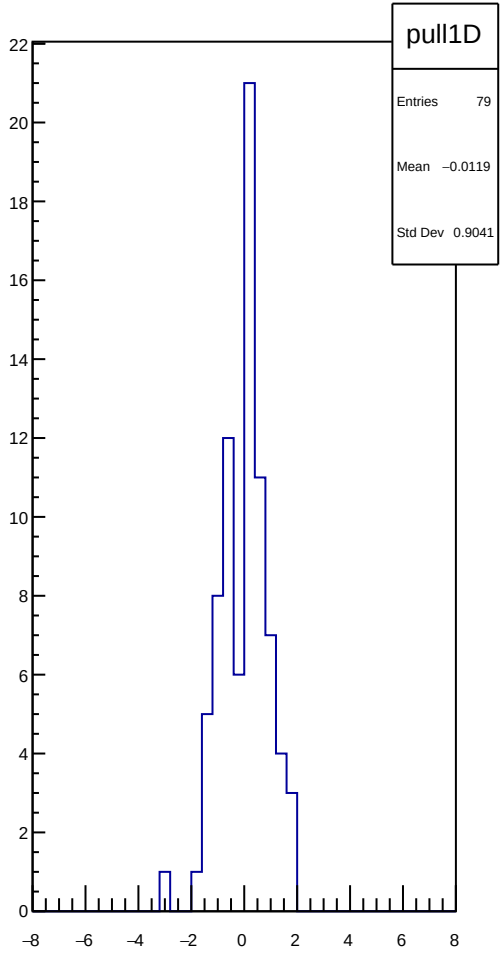

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 123.9 / 78
p0 1274 ± 1.029
1320
1310
1300
1290
1280
1270
1260
1250
1240

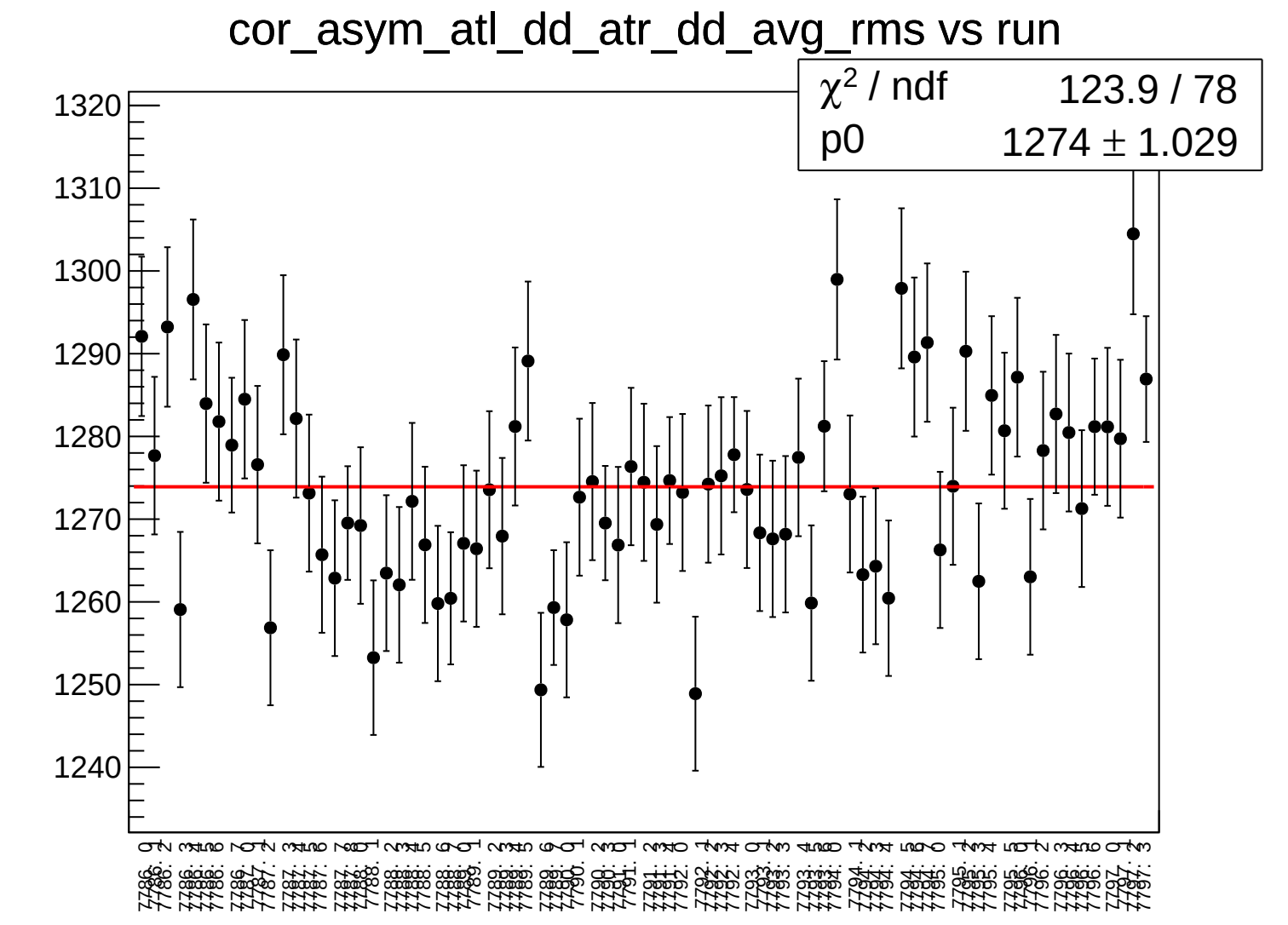

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.33 / 78
p0 −845.3 ± 5301
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −266.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

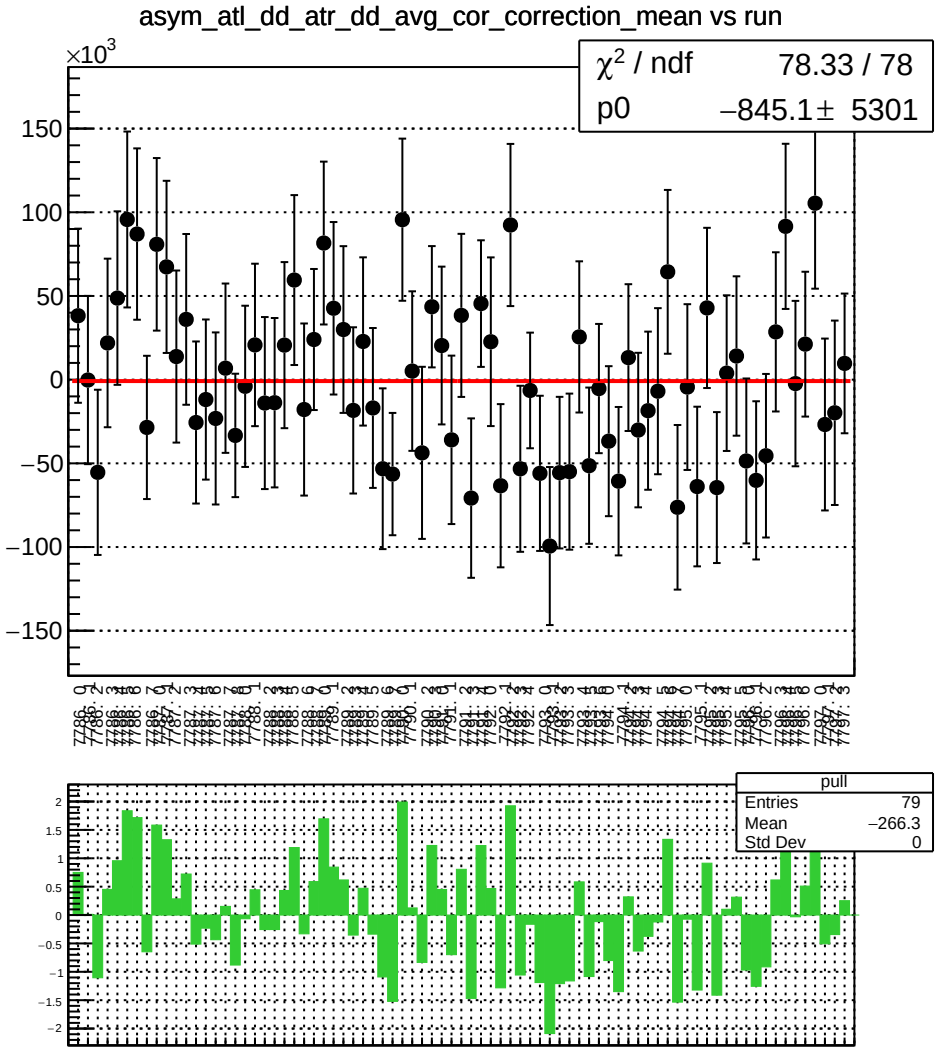

pull1D
Entries 79
Mean 0.01515
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

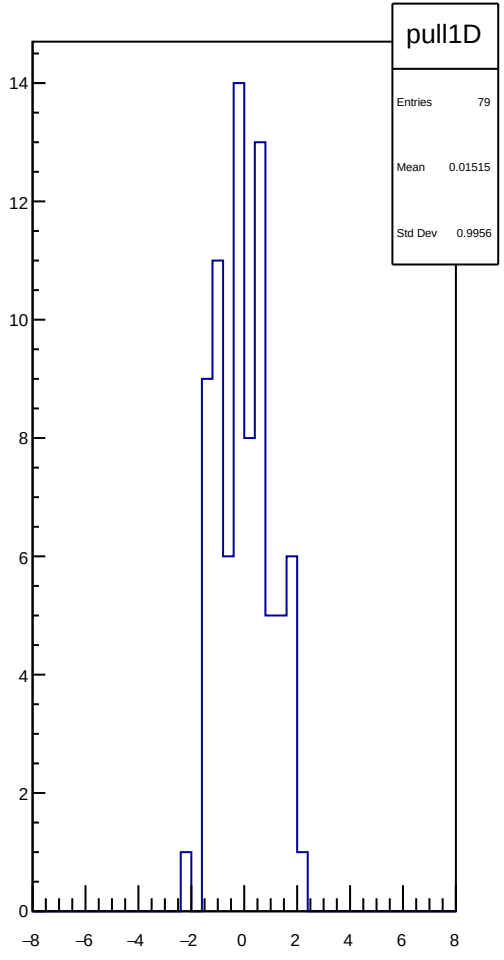

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 2864 / 78
p0 4638 ± 3.748
5200
5000
4800
4600
4400
4200

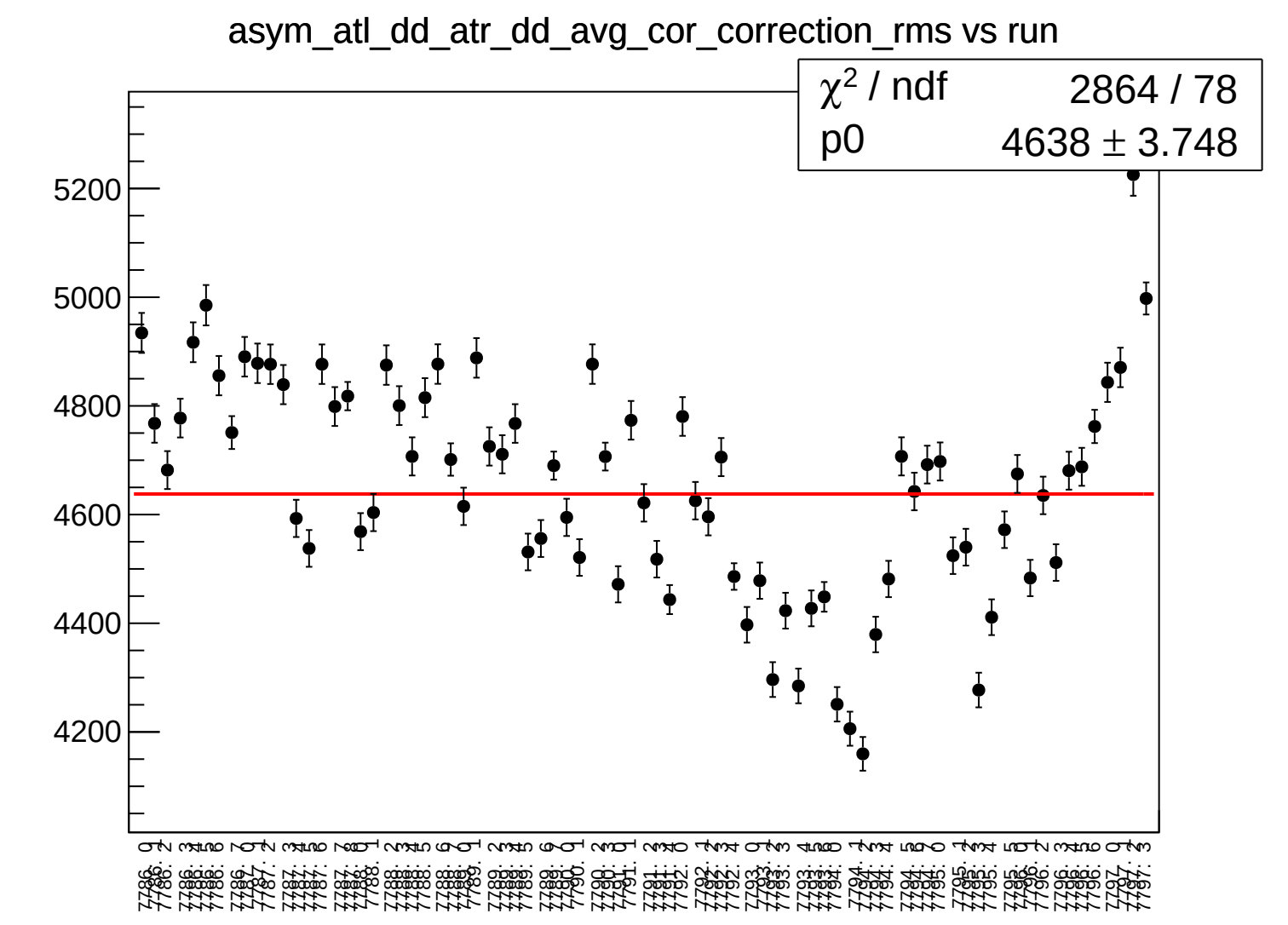

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 64.59 / 78
p0 −553.5 ± 1455
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −237.3
Std Dev 0
2
1
0
−1
−2
−3

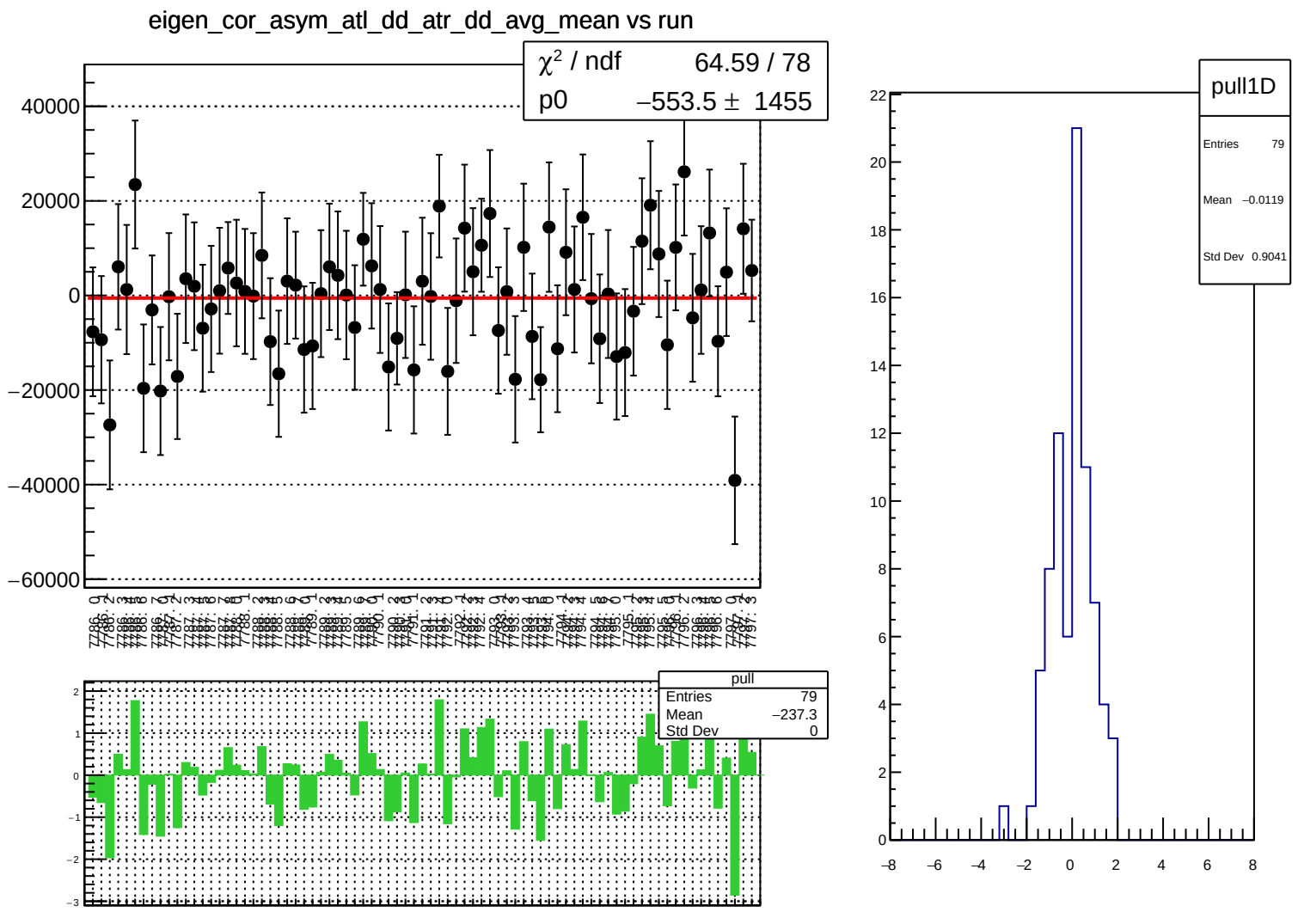

pull1D
Entries 79
Mean −0.0119
Std Dev 0.9041
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

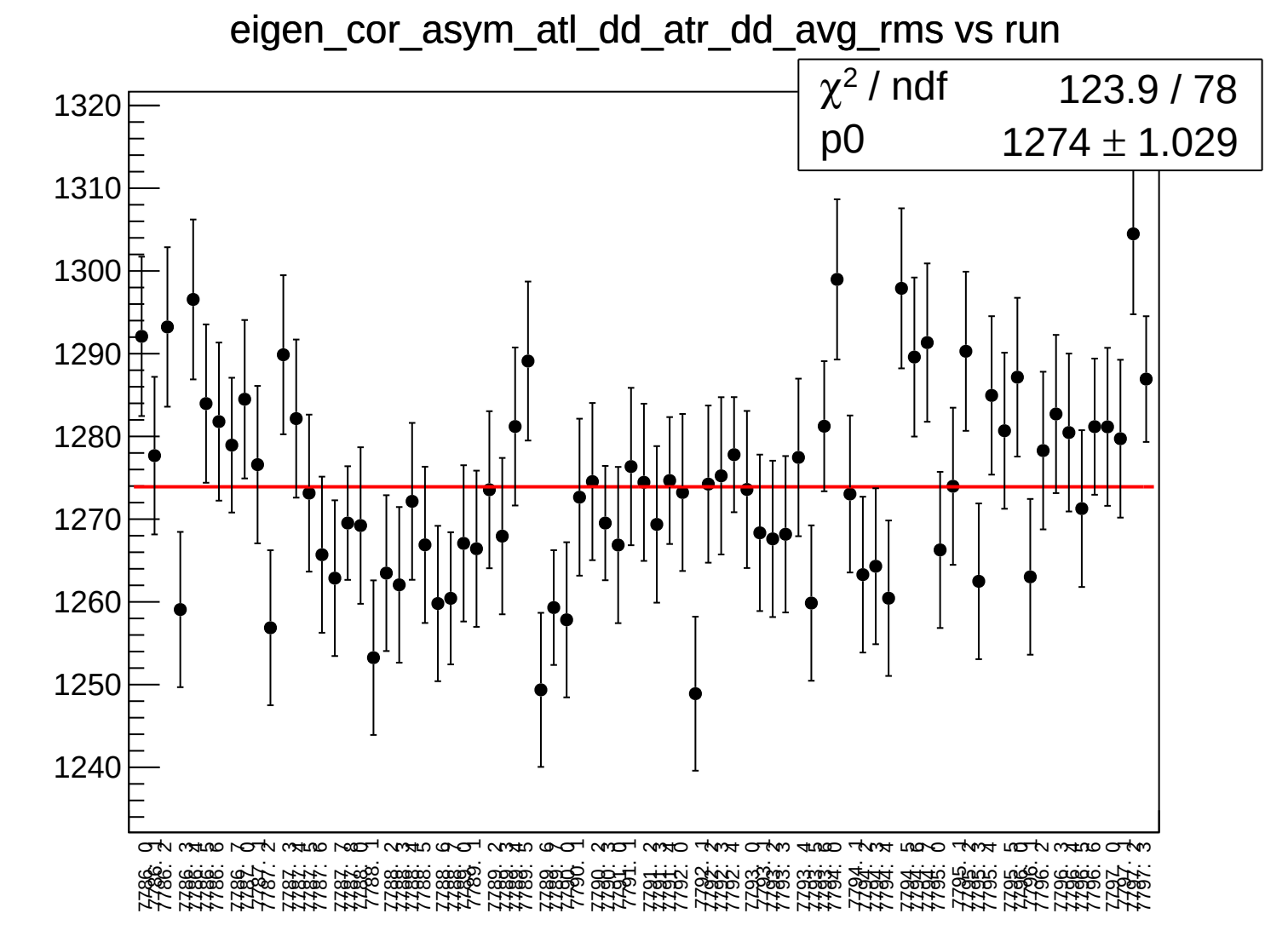

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 123.9 / 78
p0 1274 ± 1.029
1320
1310
1300
1290
1280
1270
1260
1250
1240

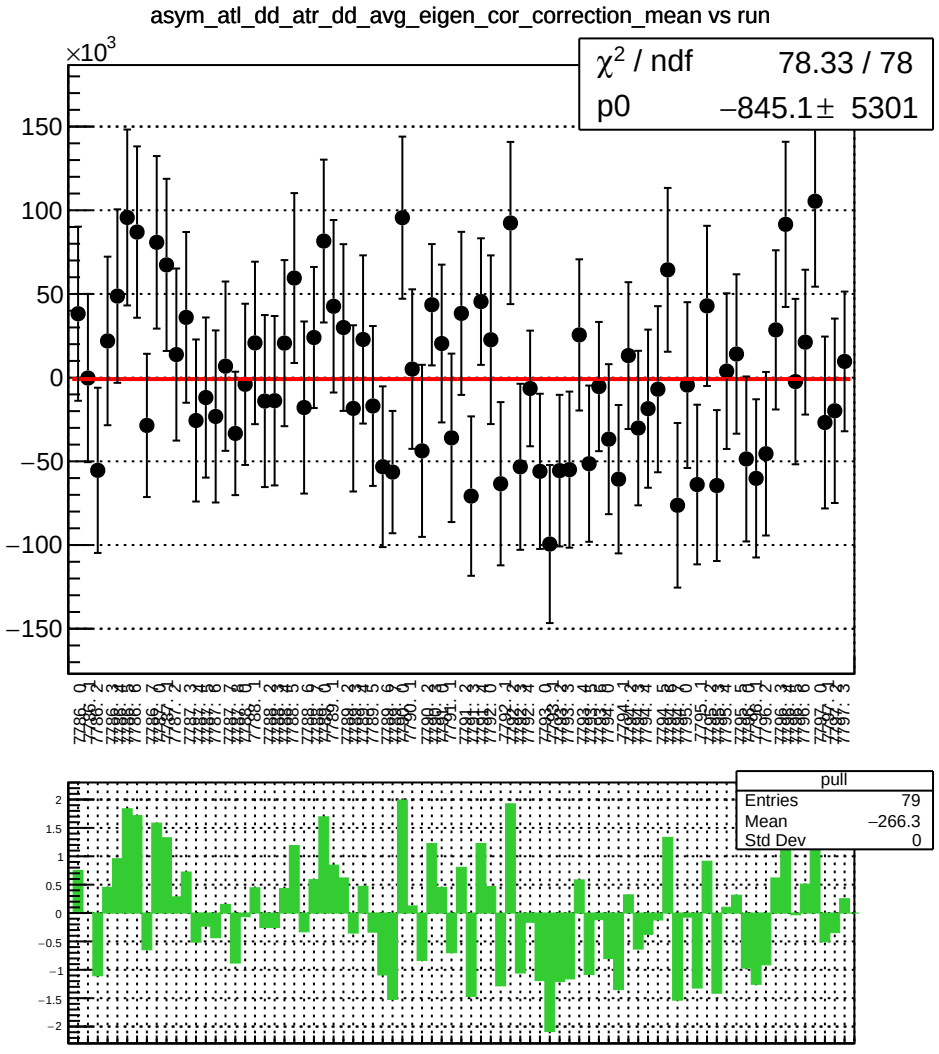

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 78.33 / 78
p0 −845.1± 5301
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −266.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

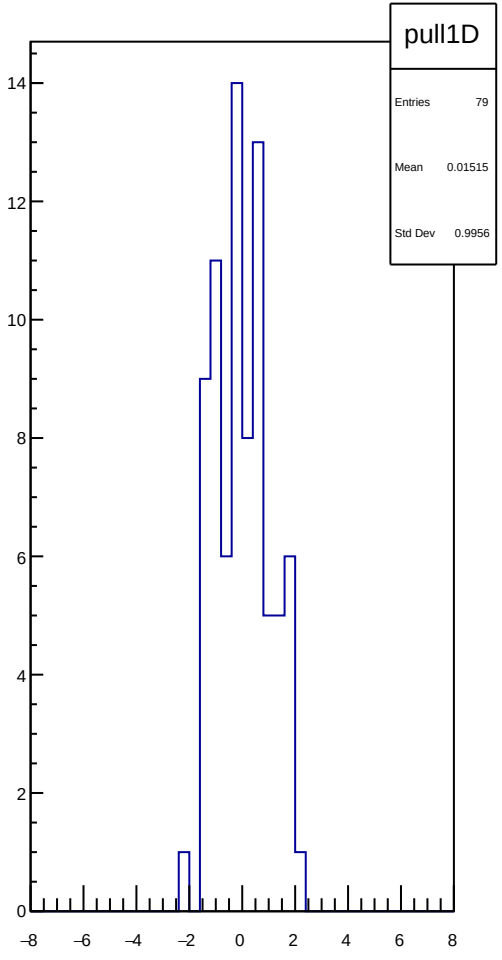

pull1D
Entries 79
Mean 0.01515
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

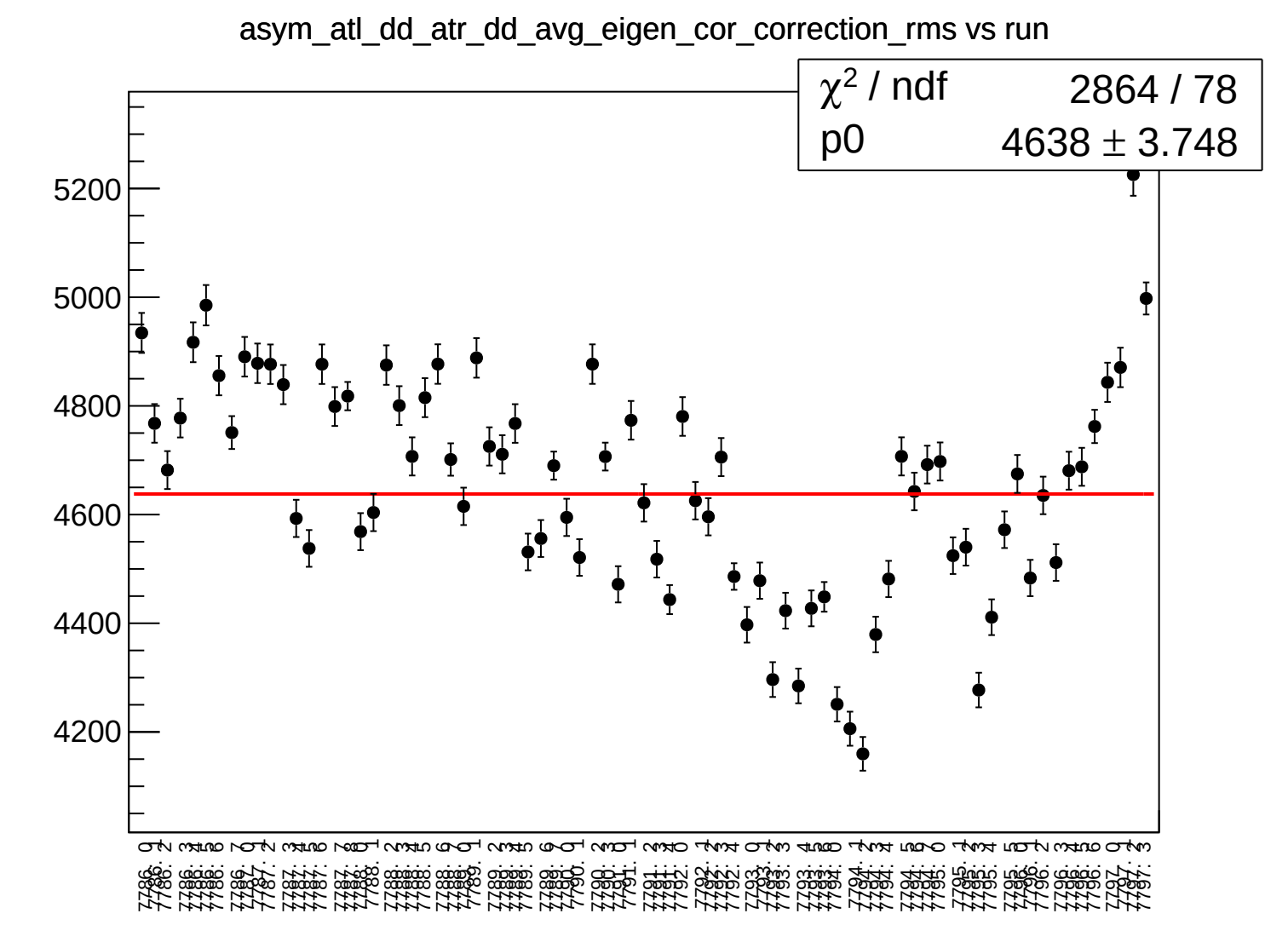

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 2864 / 78
p0 4638 ± 3.748
5200
5000
4800
4600
4400
4200

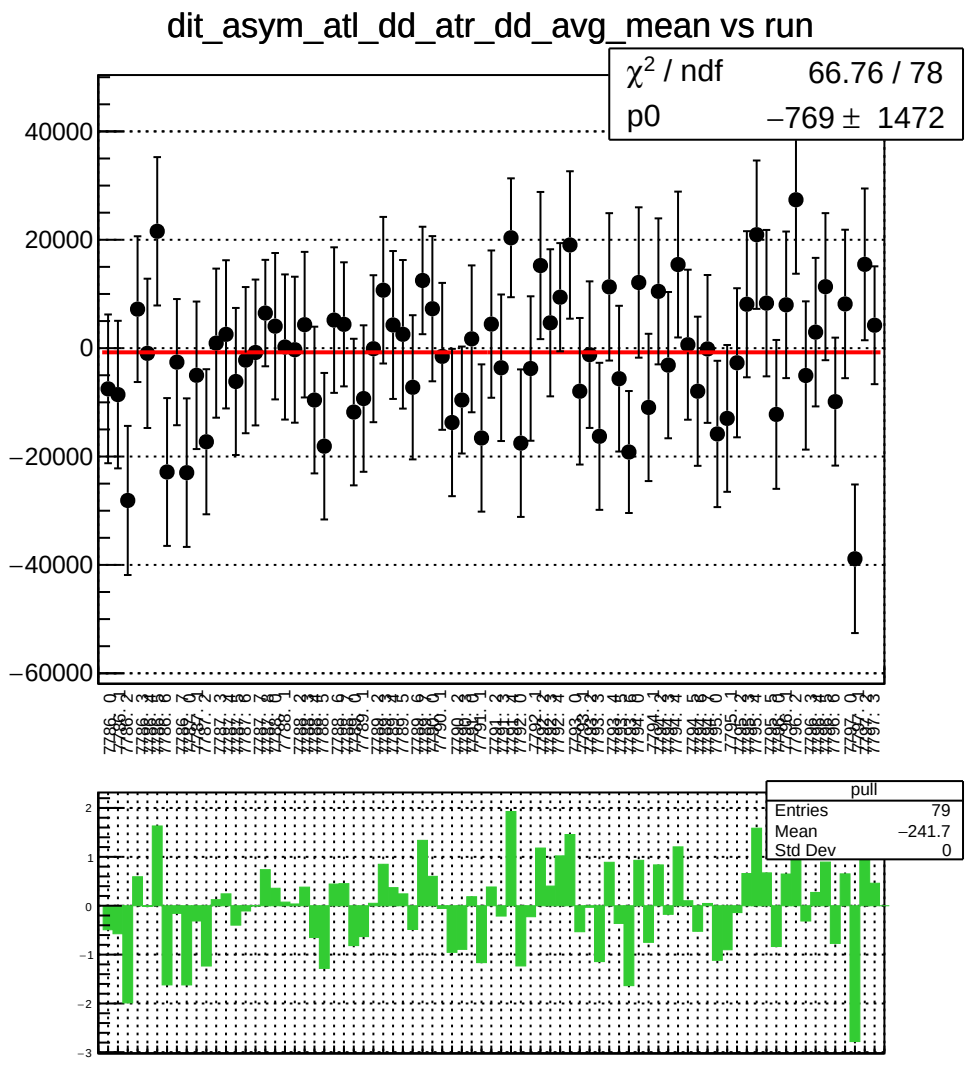

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 64.59 / 78
p0 −553.5 ± 1455
pull
Entries 79
Mean −237.3
Std Dev 0
pull1D
Entries 79
Mean −0.0119
Std Dev 0.9041

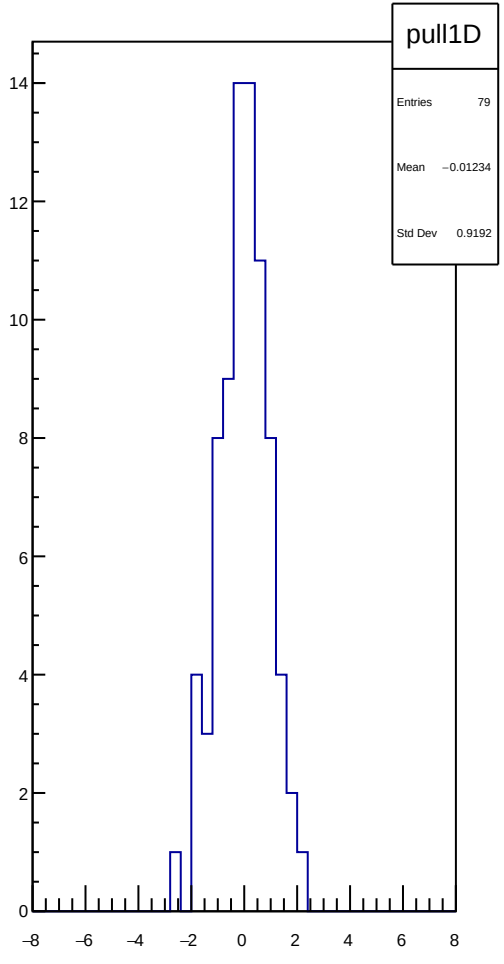

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 123.9 / 78
p0 1274 ± 1.029
1320
1310
1300
1290
1280
1270
1260
1250
1240

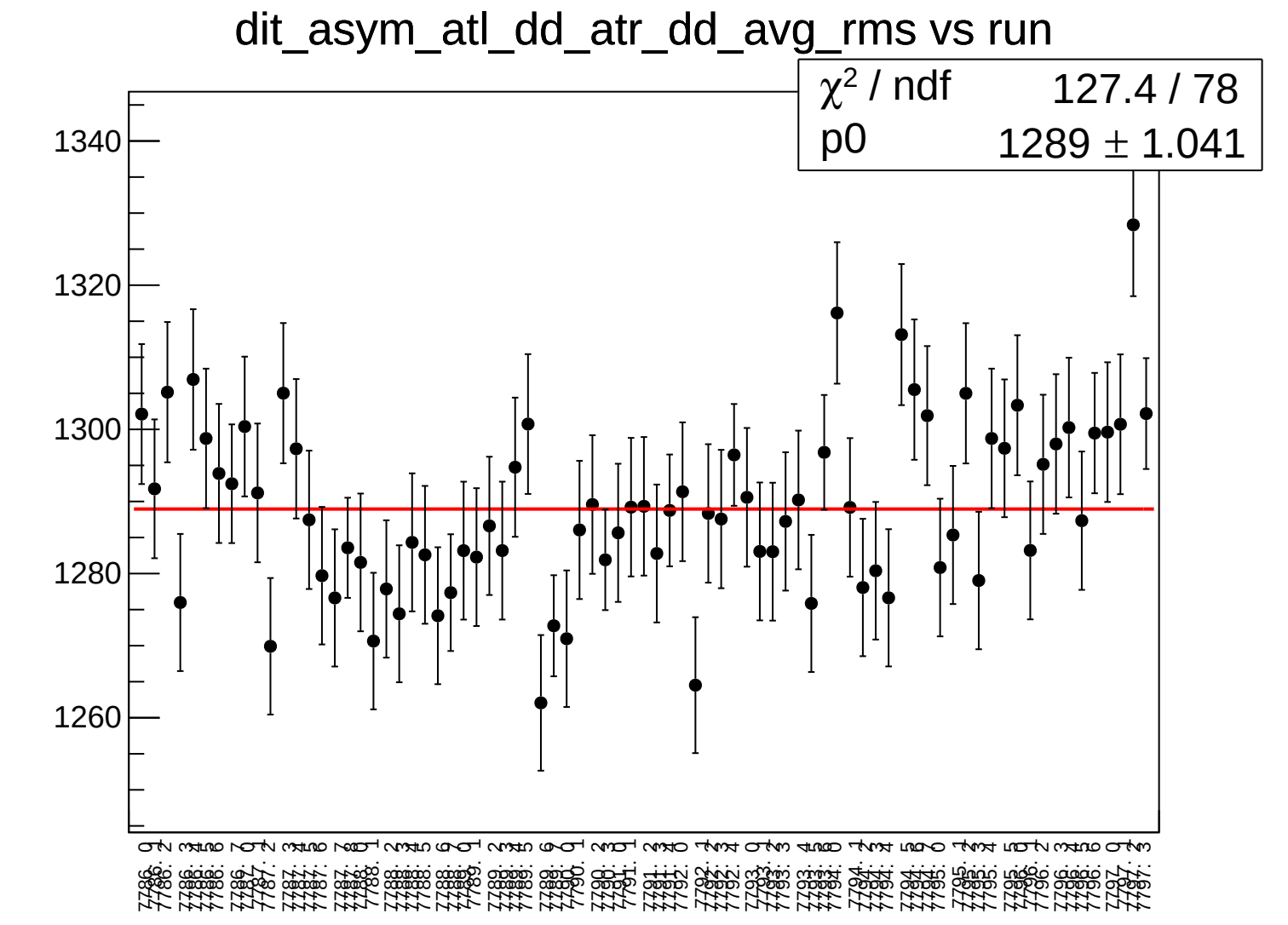

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.33 / 78
p0 −845.1± 5301
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −266.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

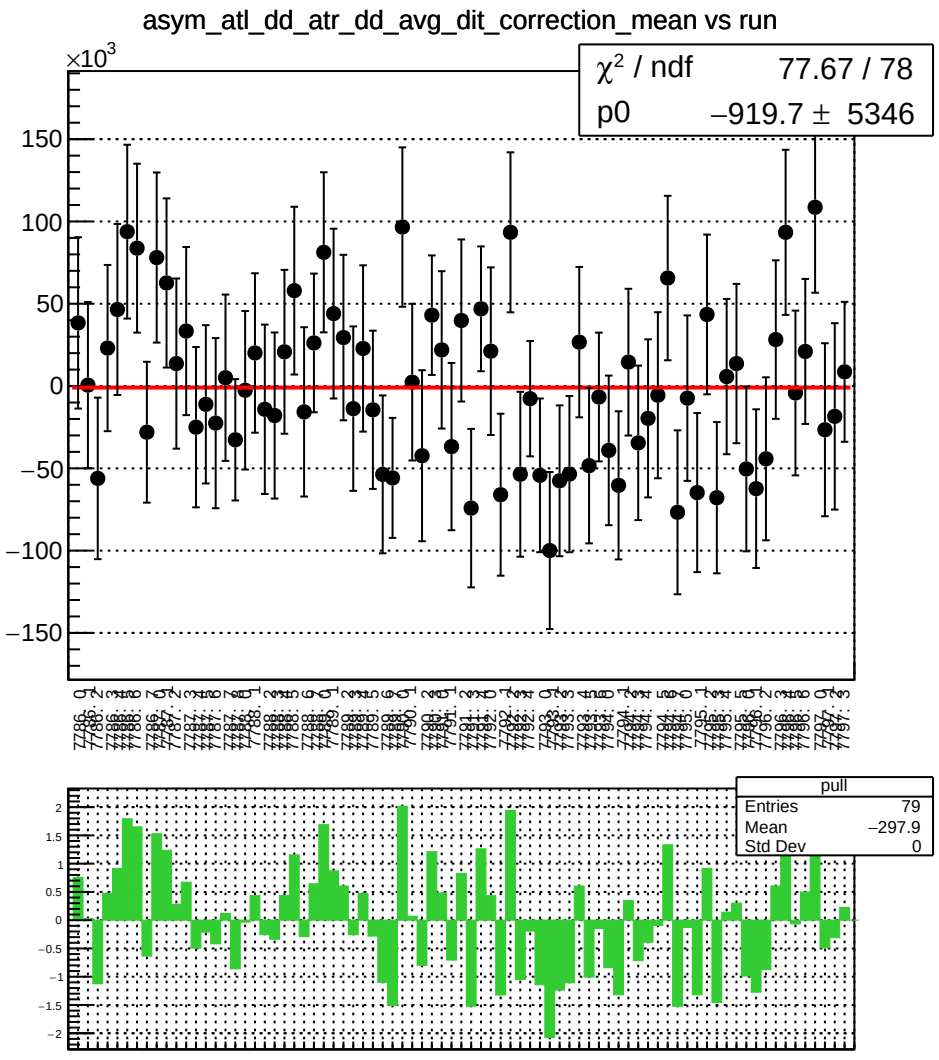

pull1D
Entries 79
Mean 0.01515
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

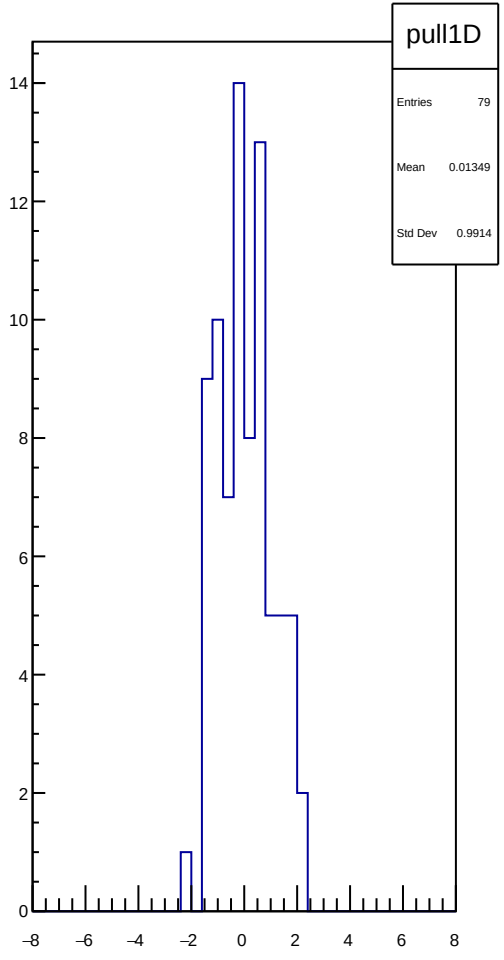

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2864 / 78
p0 4638 ± 3.748
5200
5000
4800
4600
4400
4200

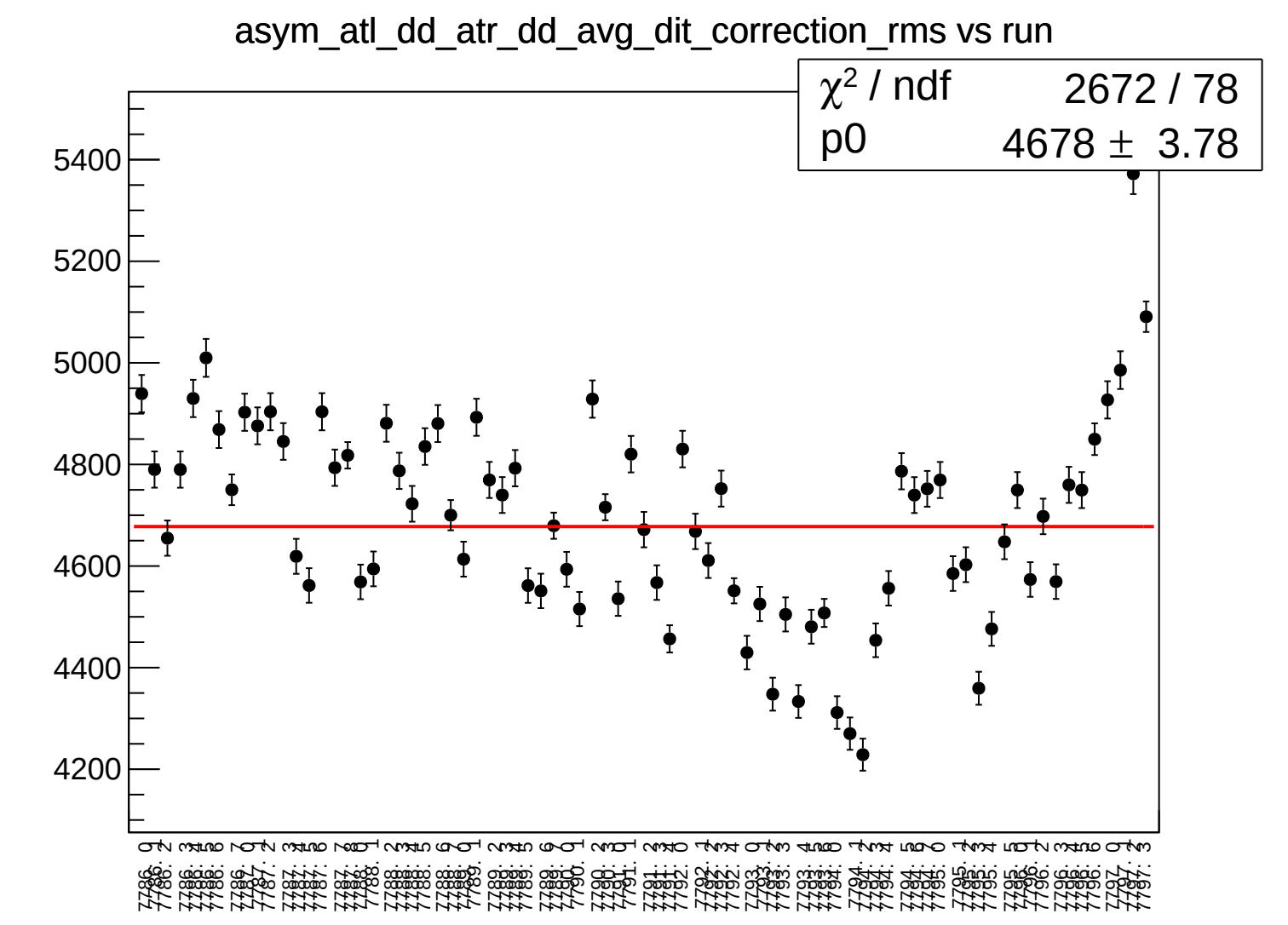

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 66.76 / 78
p0 −769 ± 1472
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −241.7
Std Dev 0
2
1
0
−1
−2
−3

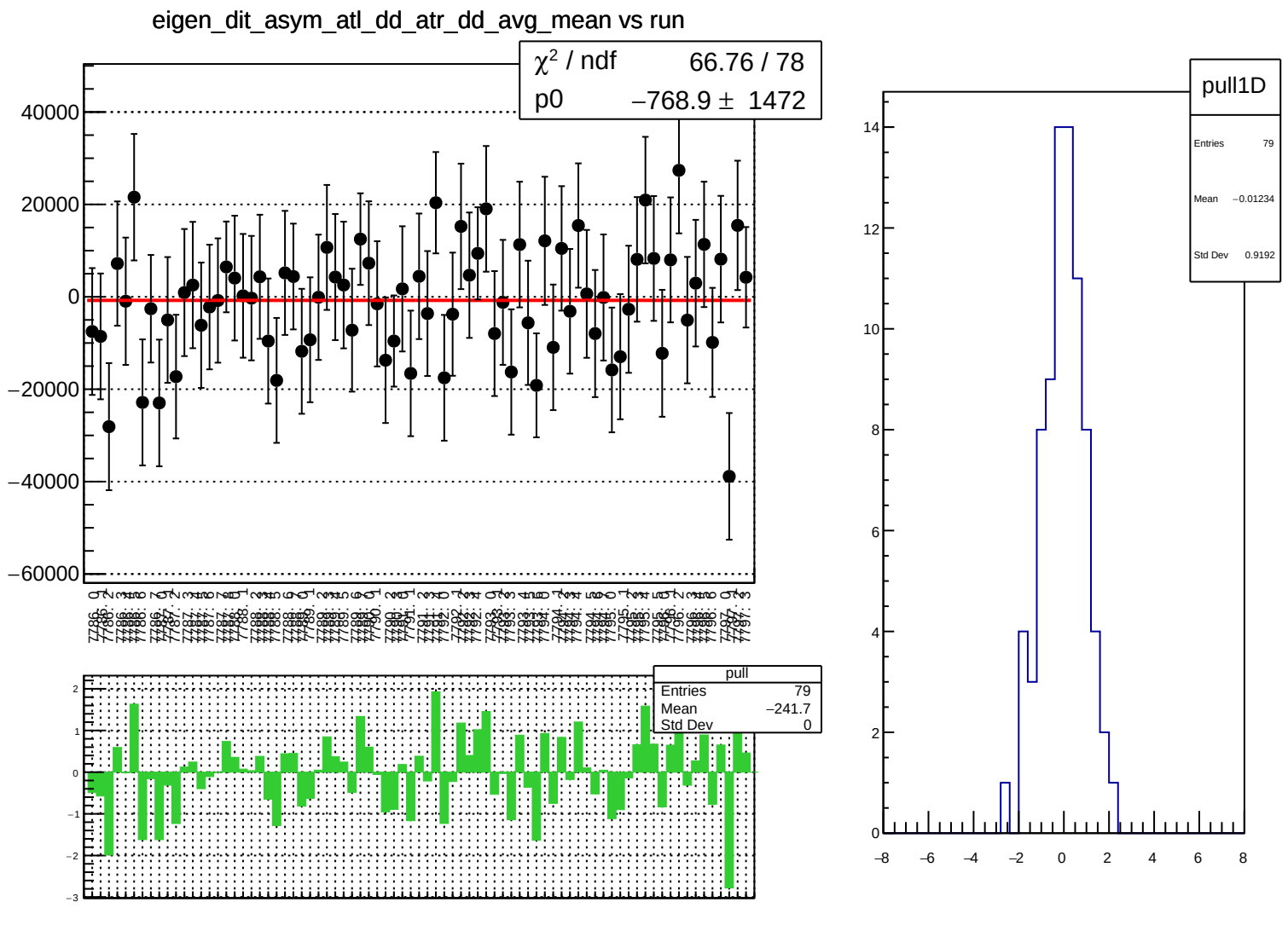

pull1D
Entries 79
Mean −0.01234
Std Dev 0.9192
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

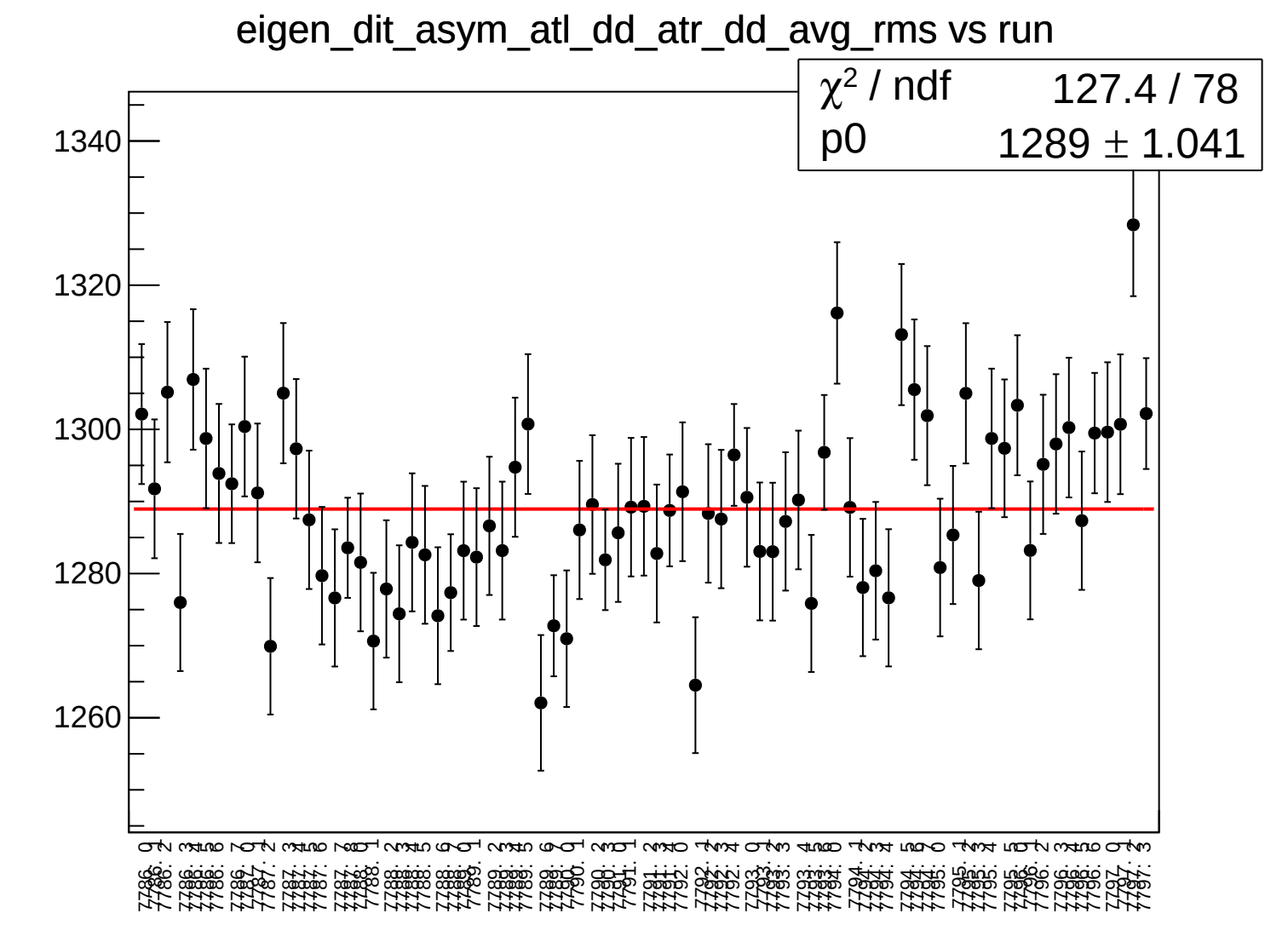

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 127.4 / 78
p0 1289 ± 1.041
1340
1320
1300
1280
1260

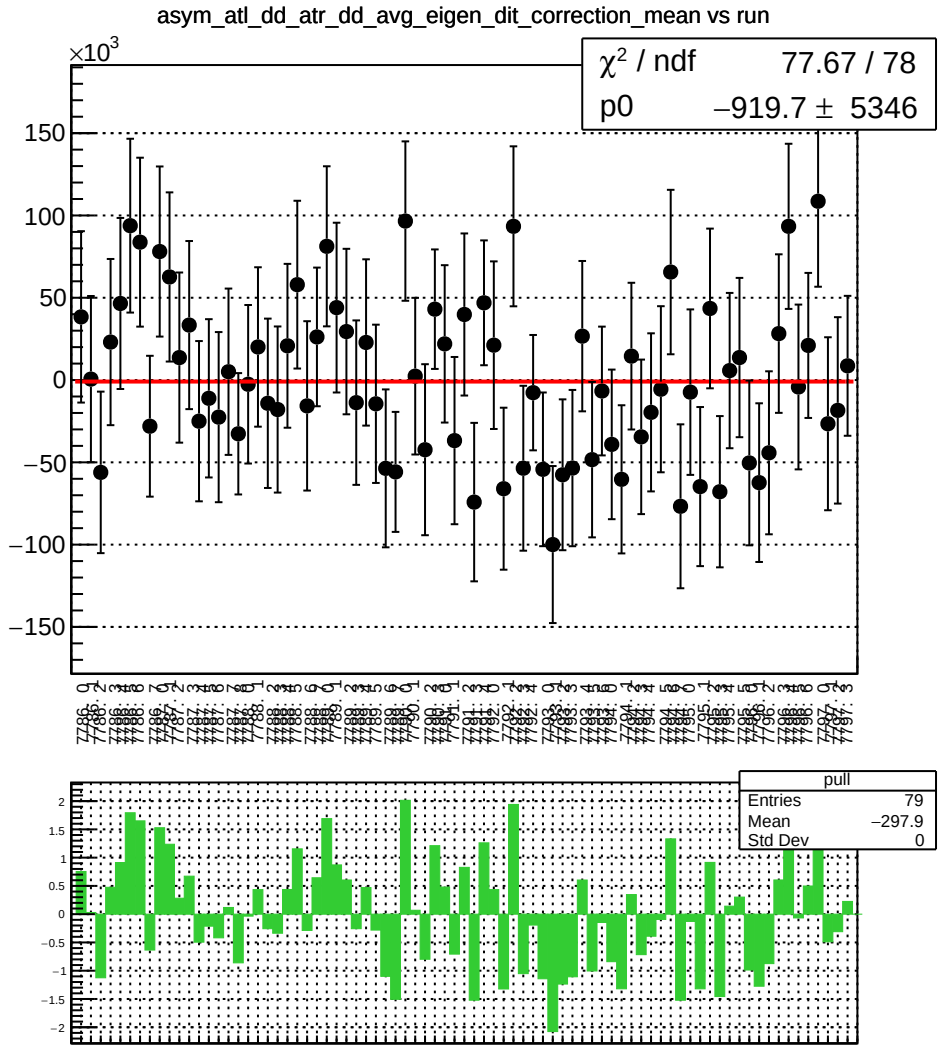

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.67 / 78
p0 −919.7 ± 5346
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −297.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

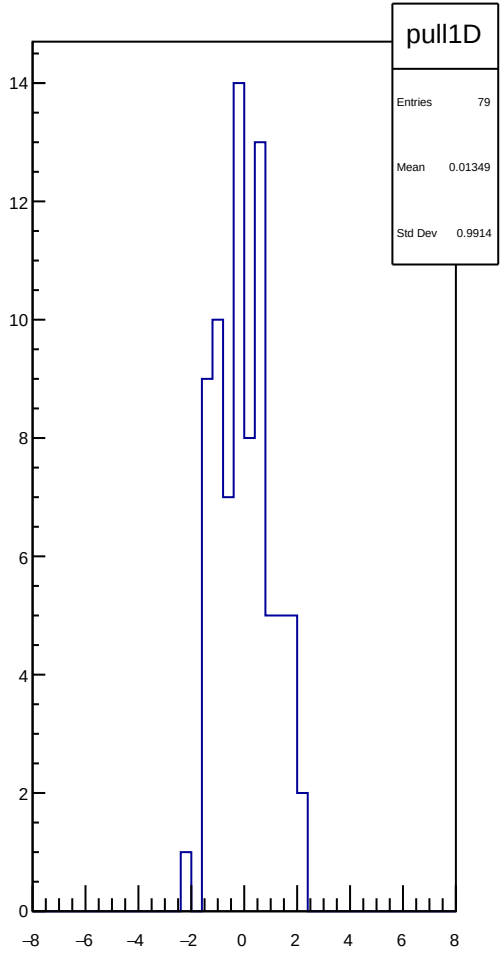

pull1D
Entries 79
Mean 0.01349
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

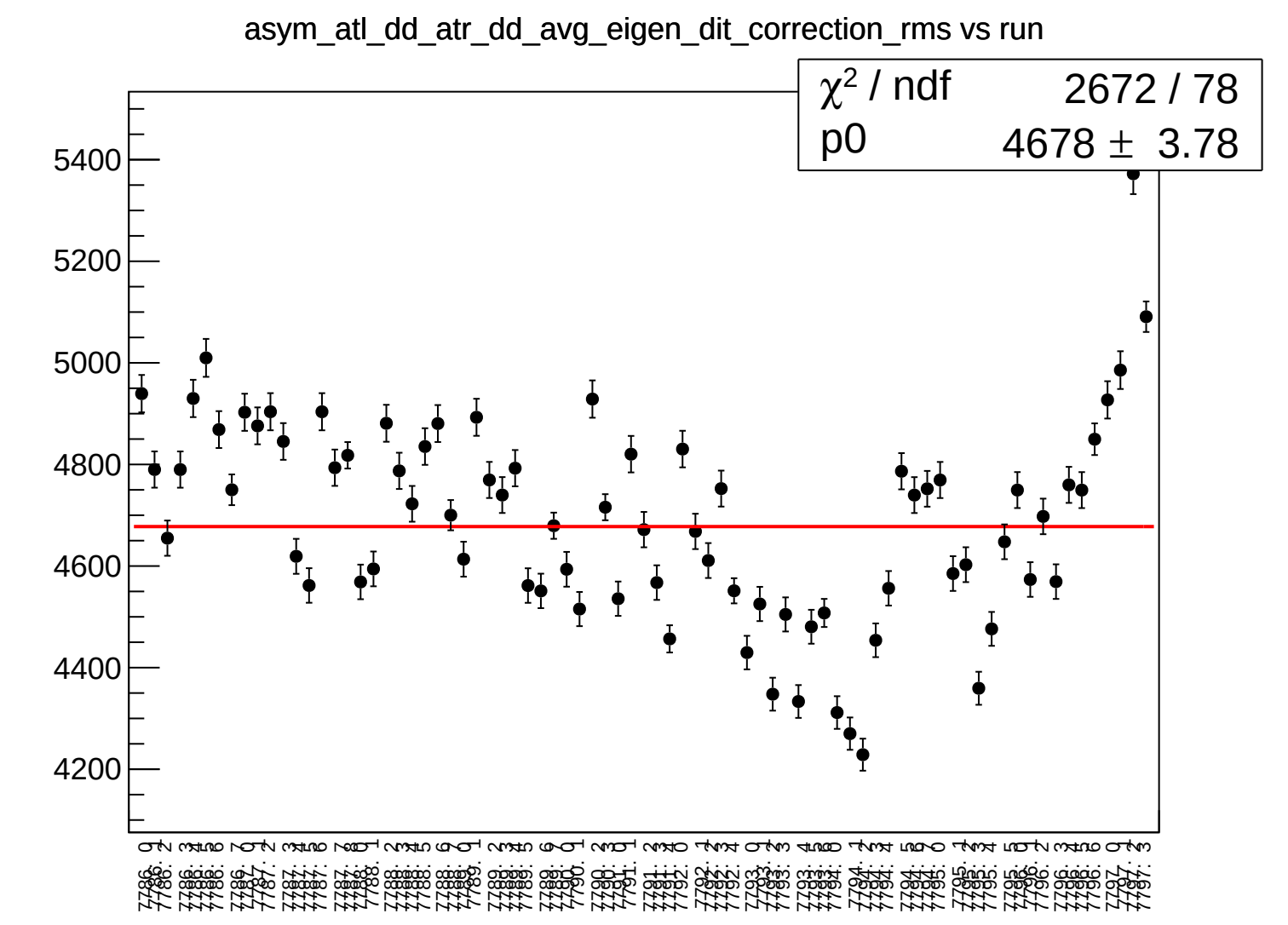

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 2672 / 78
p0 4678 ± 3.78
5400
5200
5000
4800
4600
4400
4200

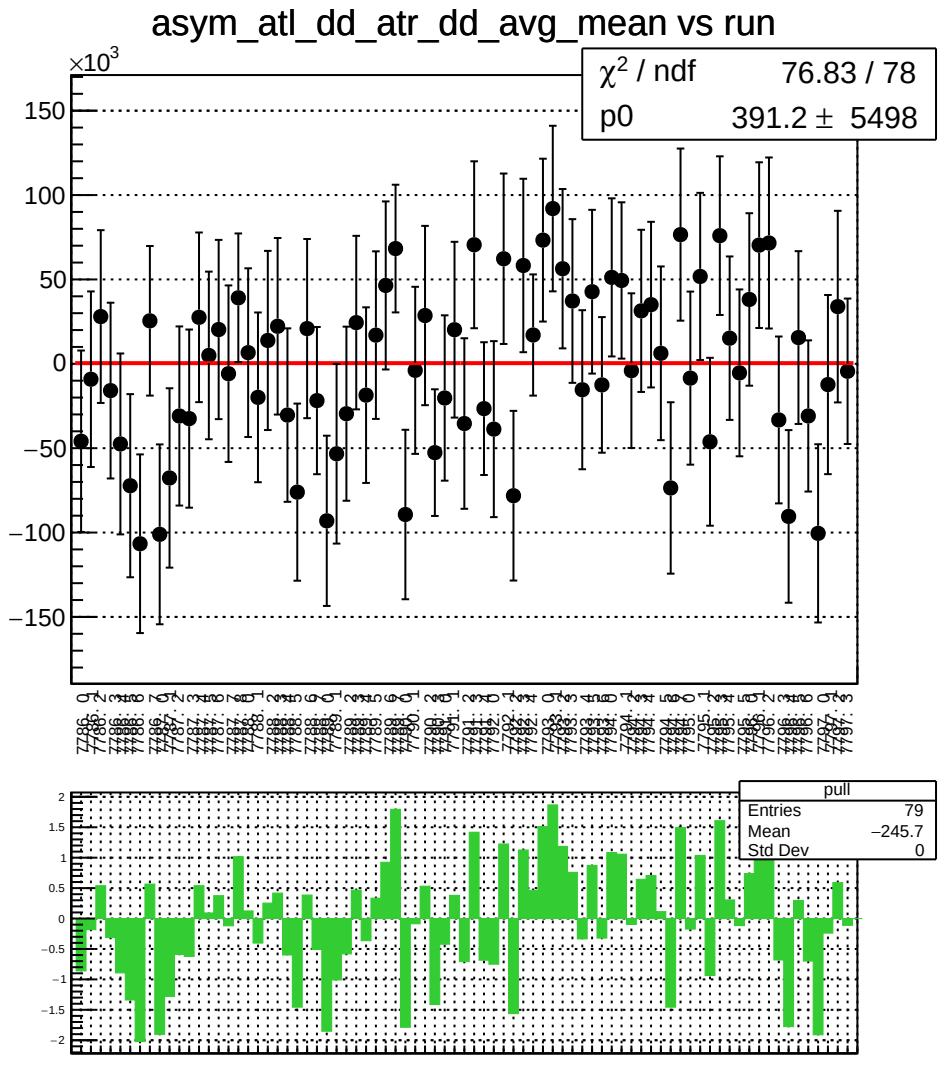

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 66.76 / 78
p0 −768.9 ± 1472
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −241.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 79
Mean −0.01234
Std Dev 0.9192
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

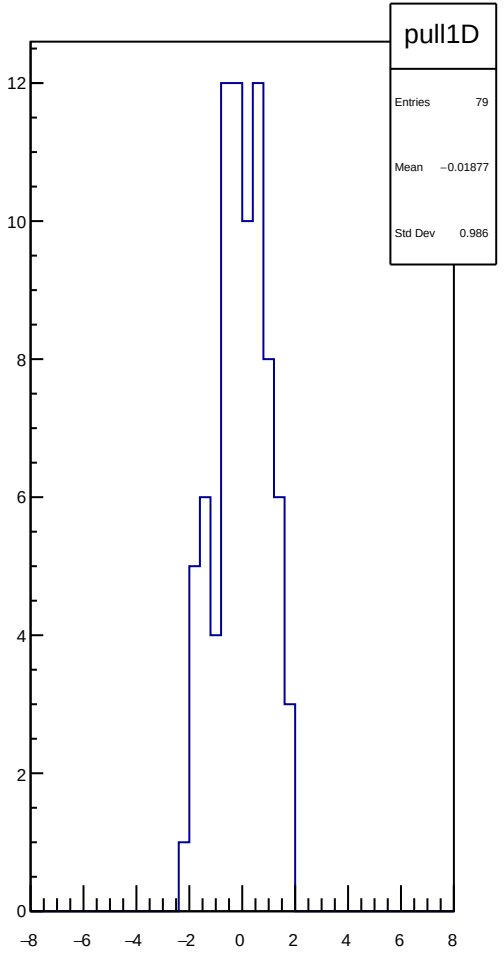

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 127.4 / 78
p0 1289 ± 1.041
1340
1320
1300
1280
1260

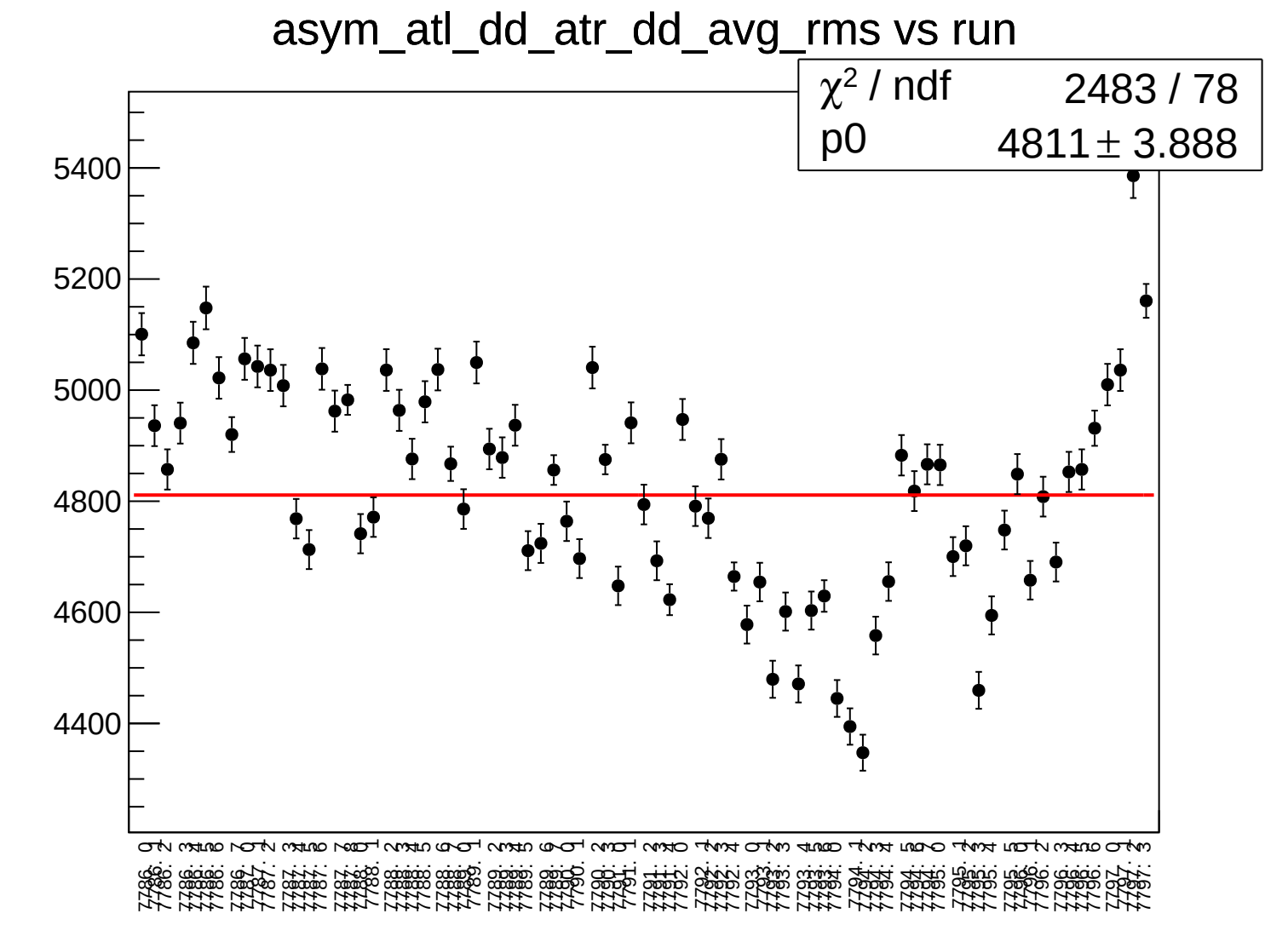

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.67 / 78
p0 −919.7 ± 5346
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −297.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

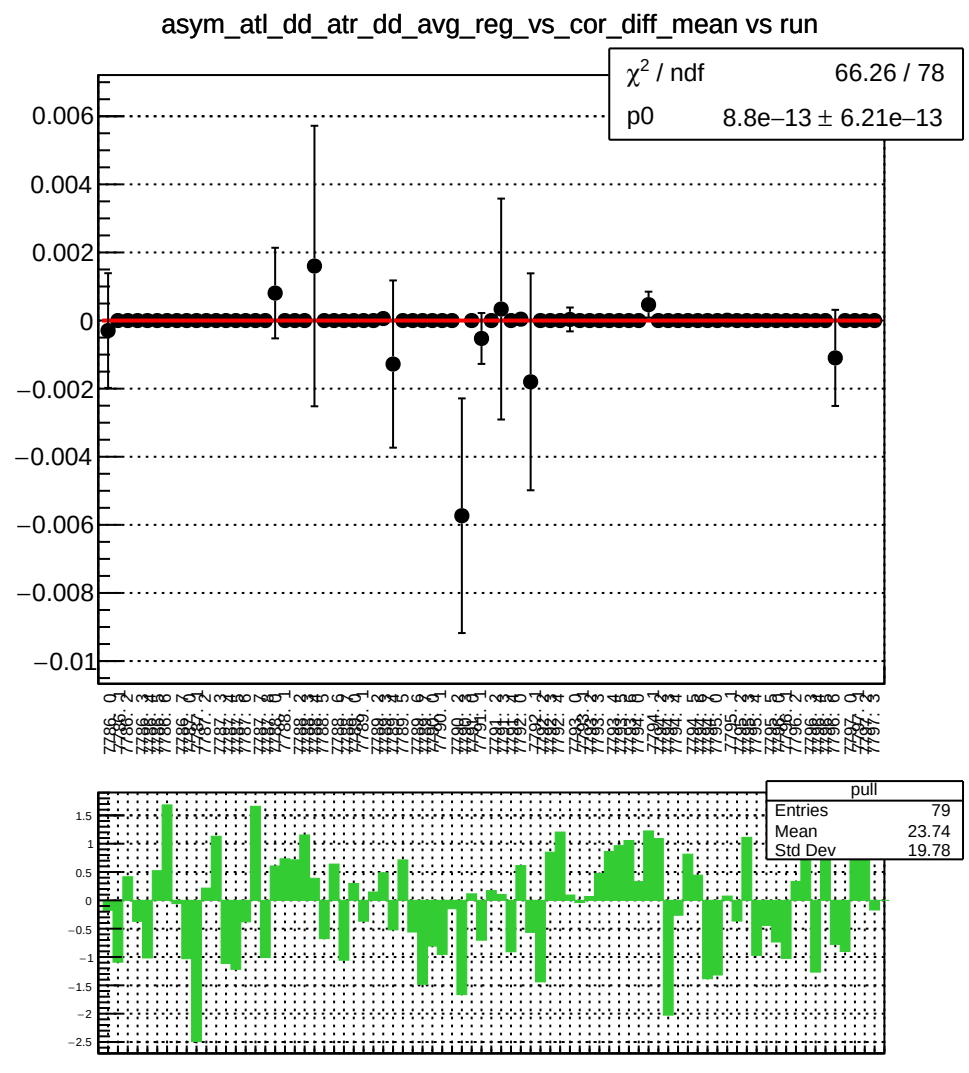

pull1D
Entries 79
Mean 0.01349
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

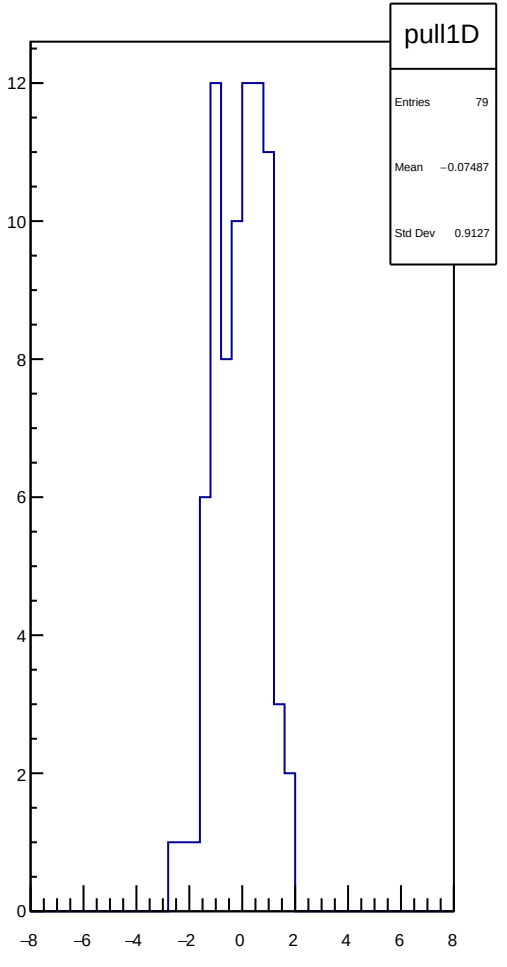

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2672 / 78
p0 4678 ± 3.78
5400
5200
5000
4800
4600
4400
4200

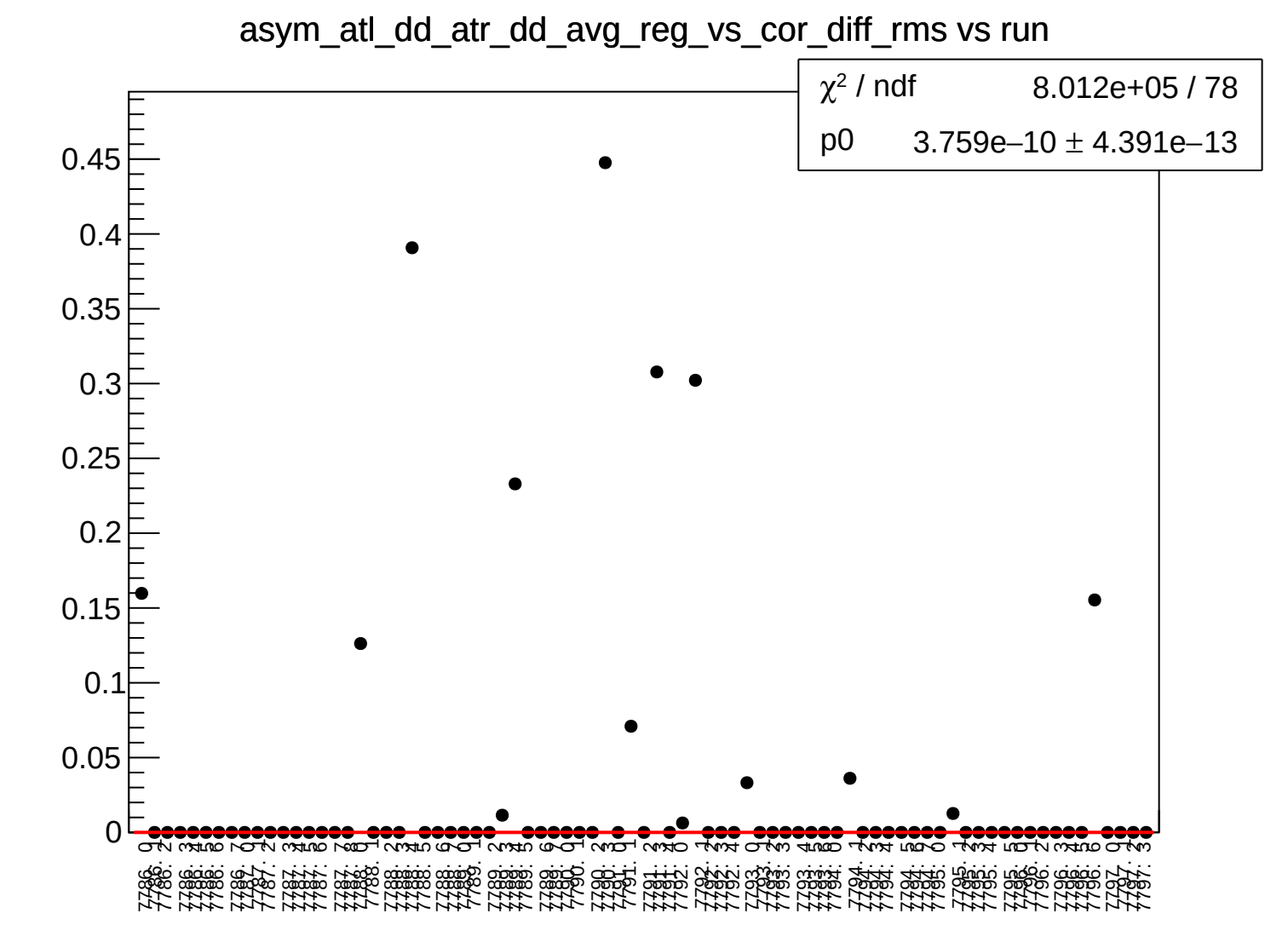

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 76.83 / 78
p0 391.2 ± 5498
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −245.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

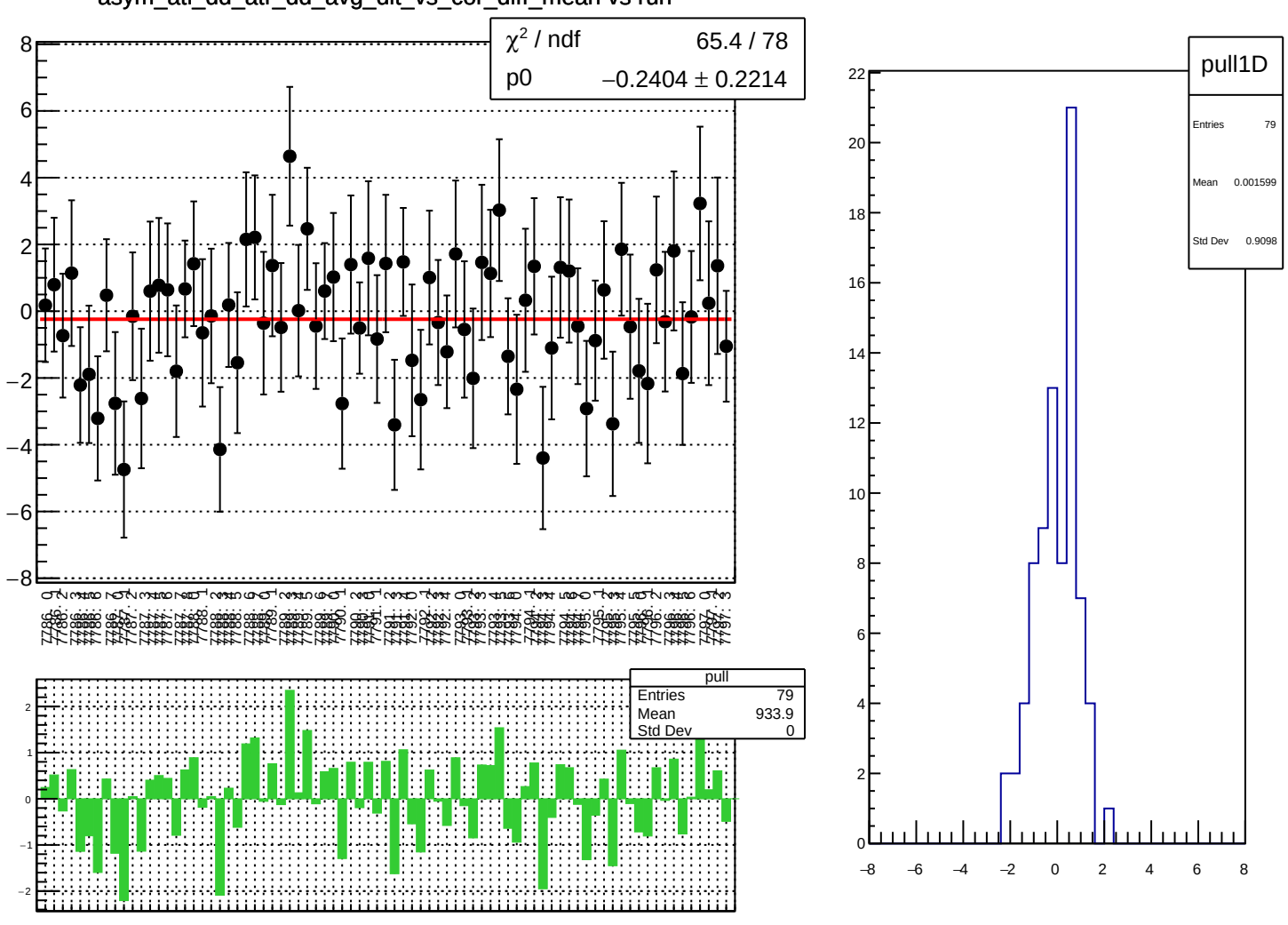

pull1D
Entries 79
Mean −0.01877
Std Dev 0.986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

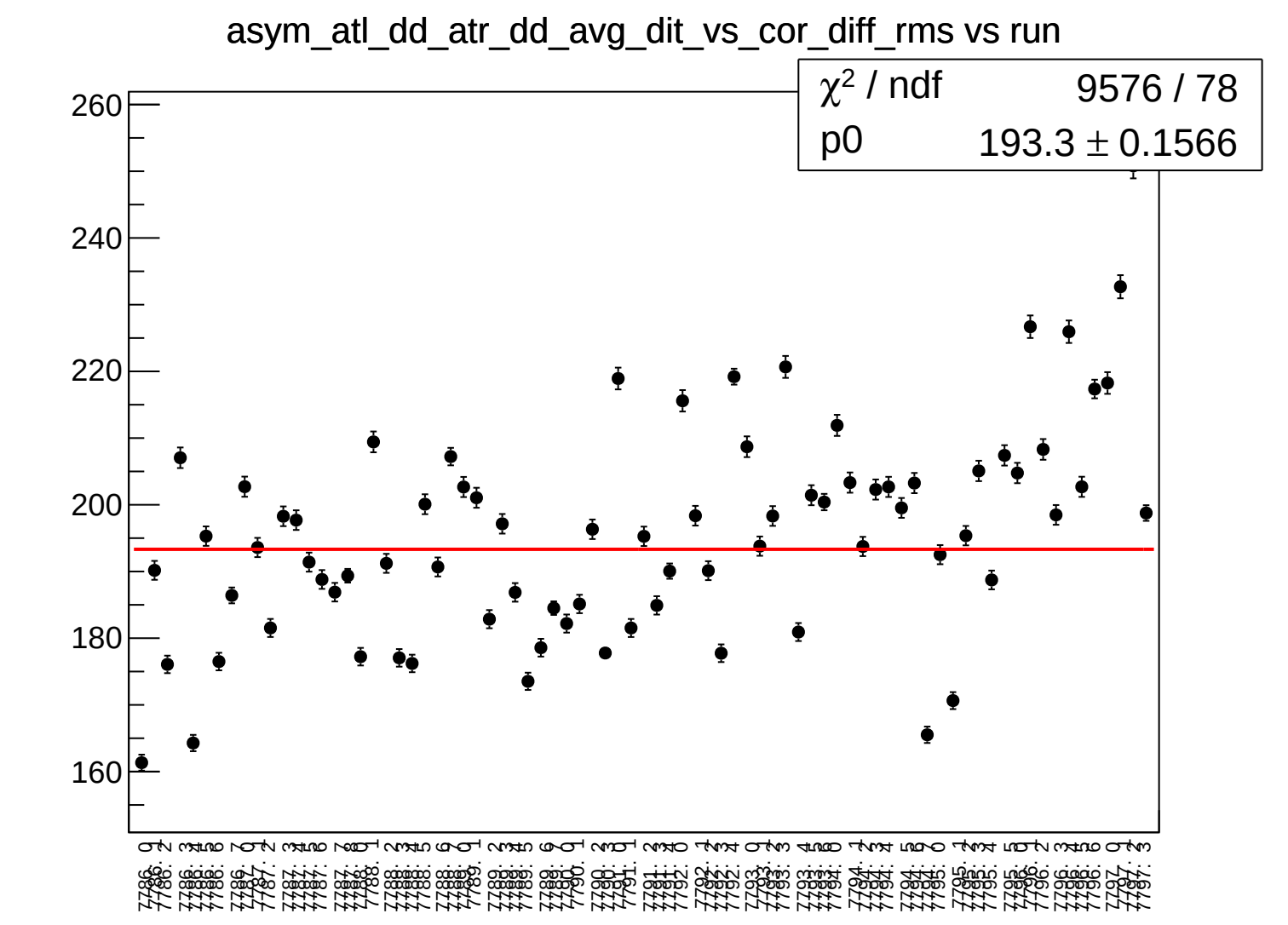

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 2483 / 78
p0 4811 ± 3.888
5400
5200
5000
4800
4600
4400


asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.26 / 78
p0 8.8e−13 ± 6.21e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 79
Mean 23.74
Std Dev 19.78
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

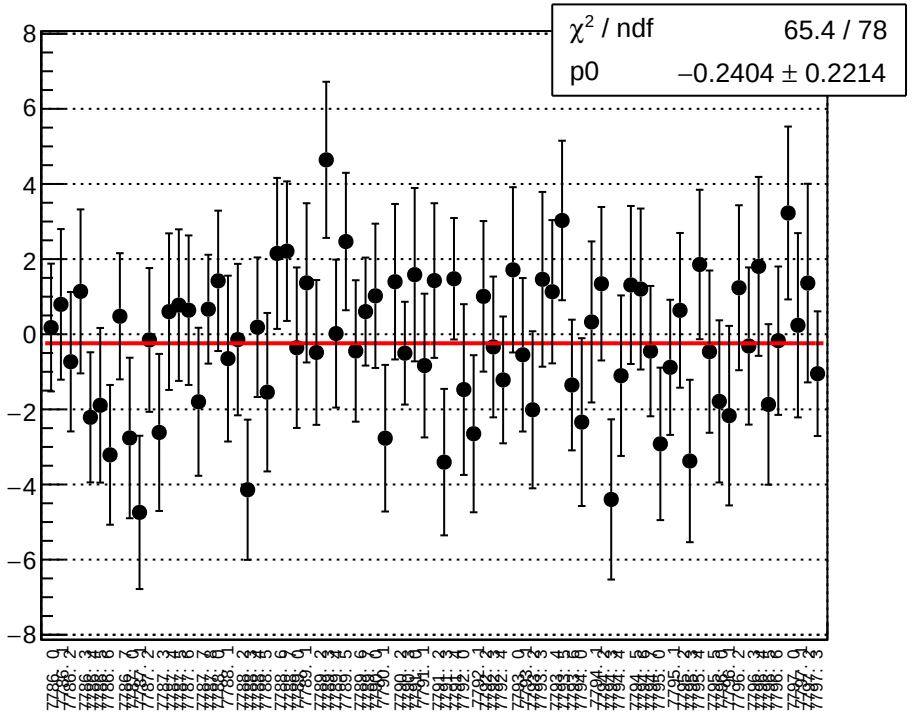

pull1D
Entries 79
Mean −0.07487
Std Dev 0.9127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

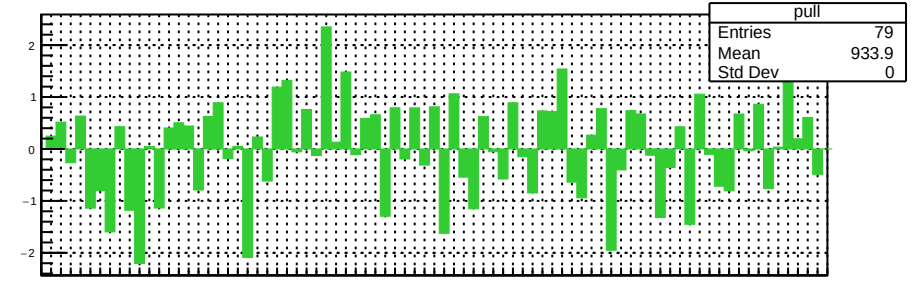

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.012e+05 / 78
p0 3.759e−10 ± 4.391e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

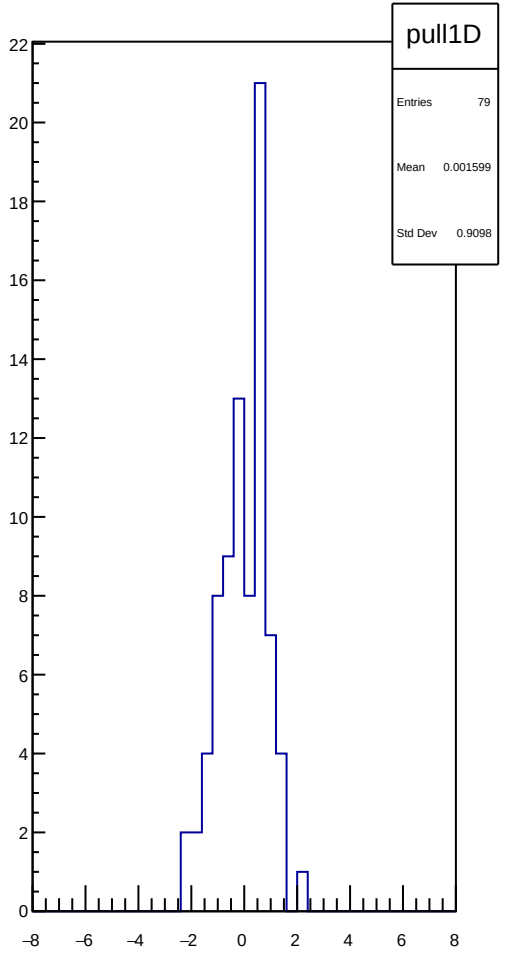

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.4 / 78
p0 −0.2404 ± 0.2214
pull
Entries 79
Mean 933.9
Std Dev 0
pull1D
Entries 79
Mean 0.001599
Std Dev 0.9098

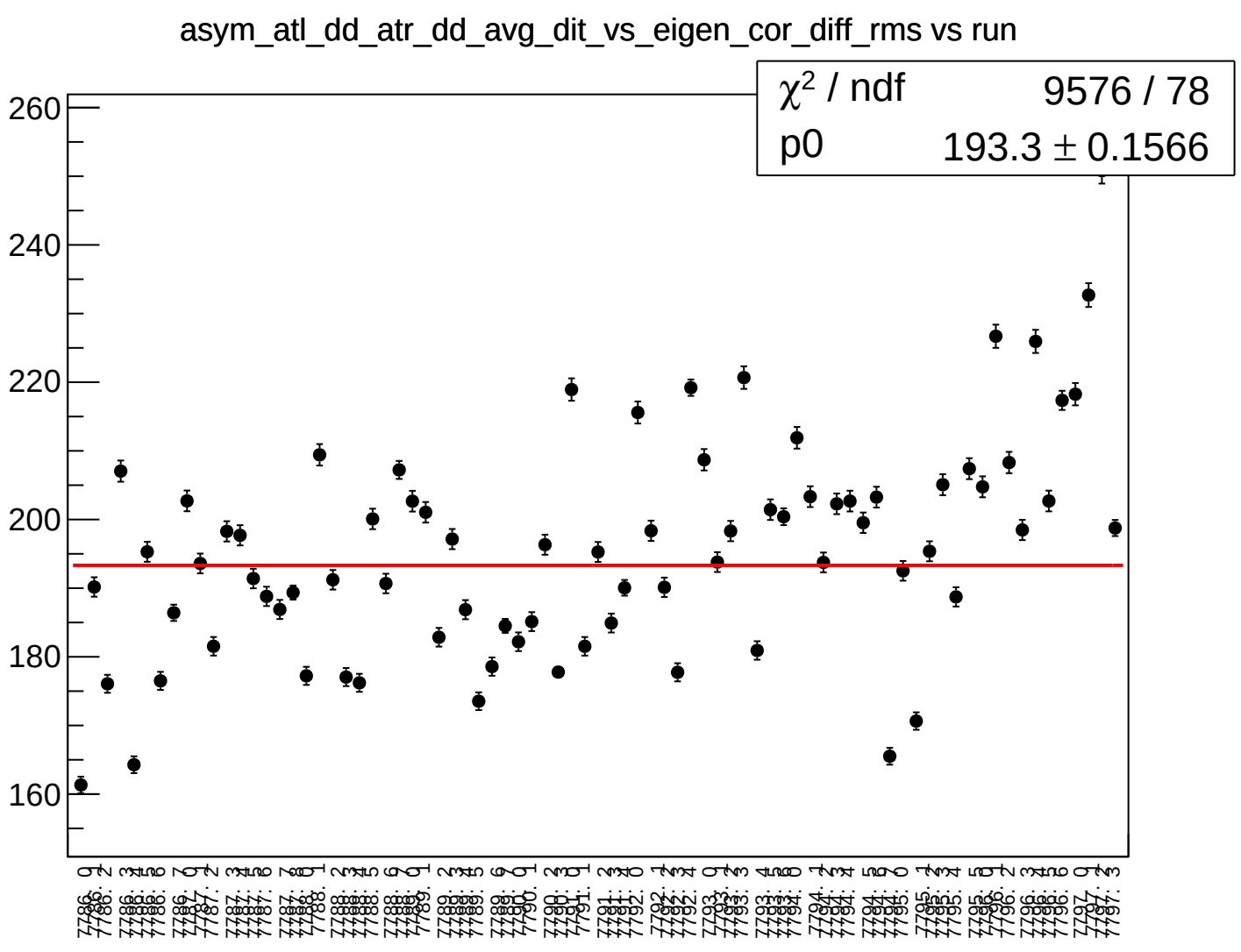

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9576 / 78
p0 193.3 ± 0.1566
260
240
220
200
180
160

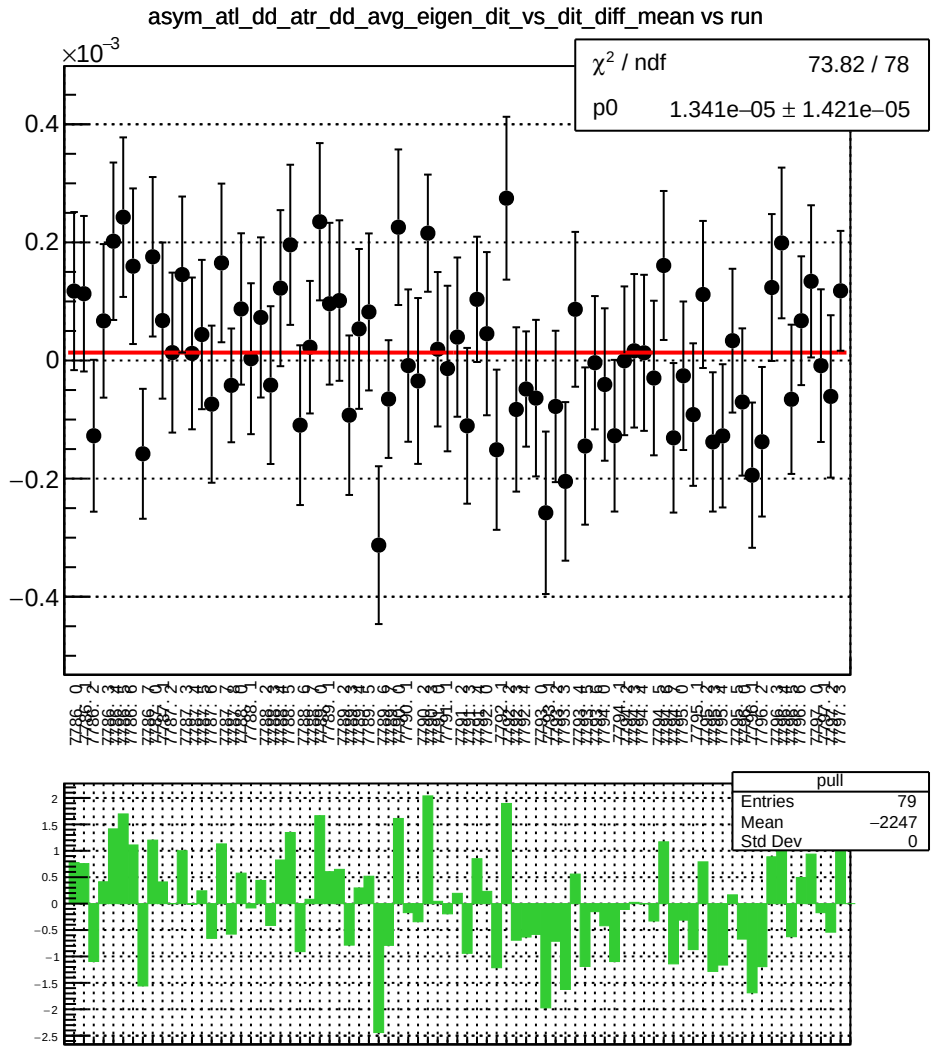
asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run

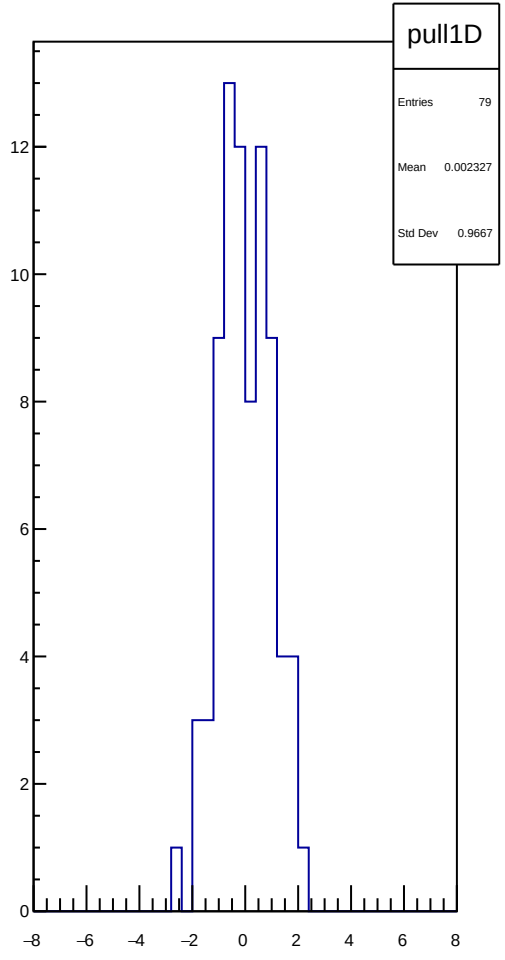


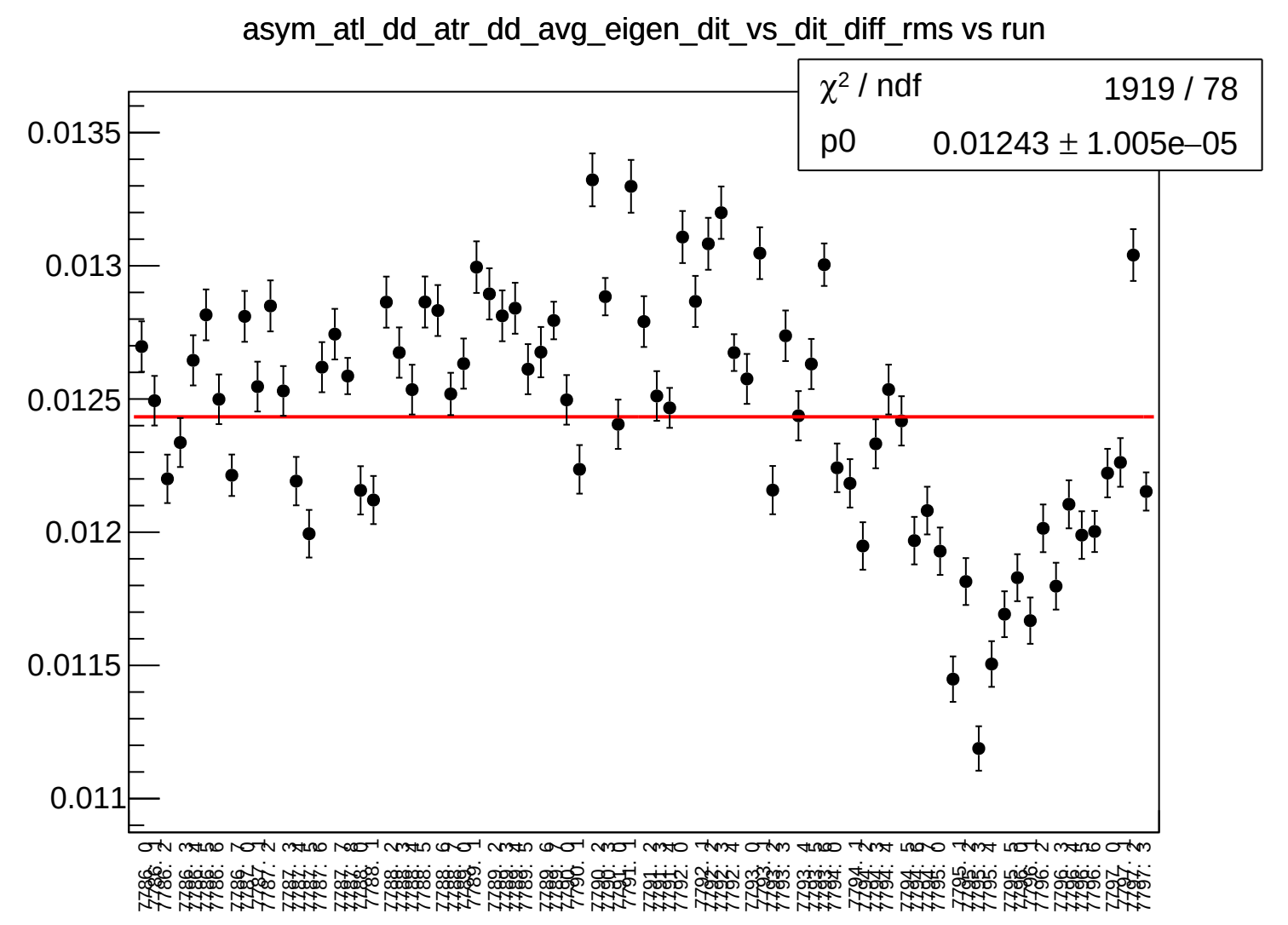




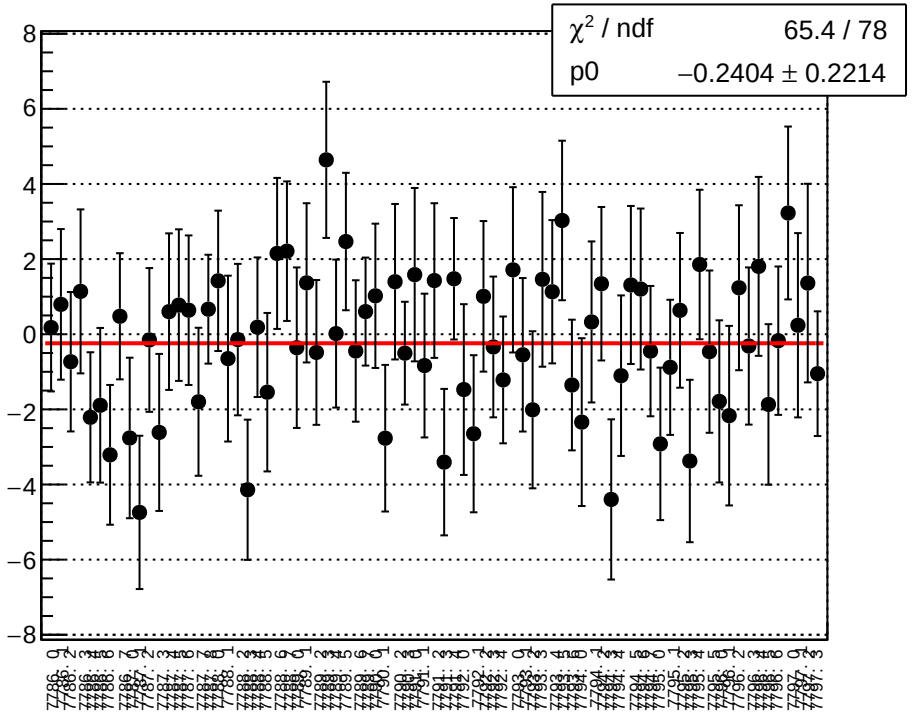

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9576 / 78
p0 193.3 ± 0.1566
260
240
220
200
180
160

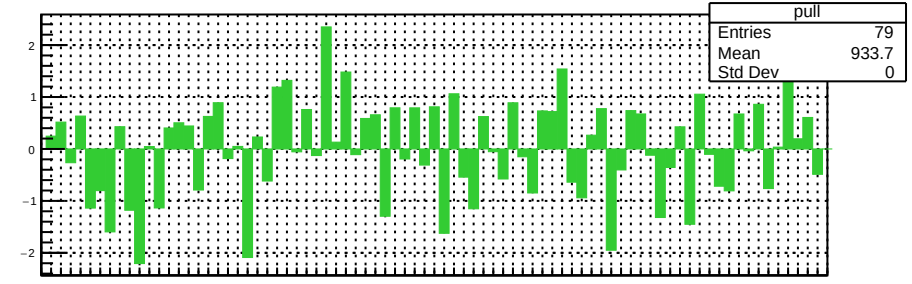

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.82 / 78
p0 1.341e−05 ± 1.421e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 79
Mean −2247
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

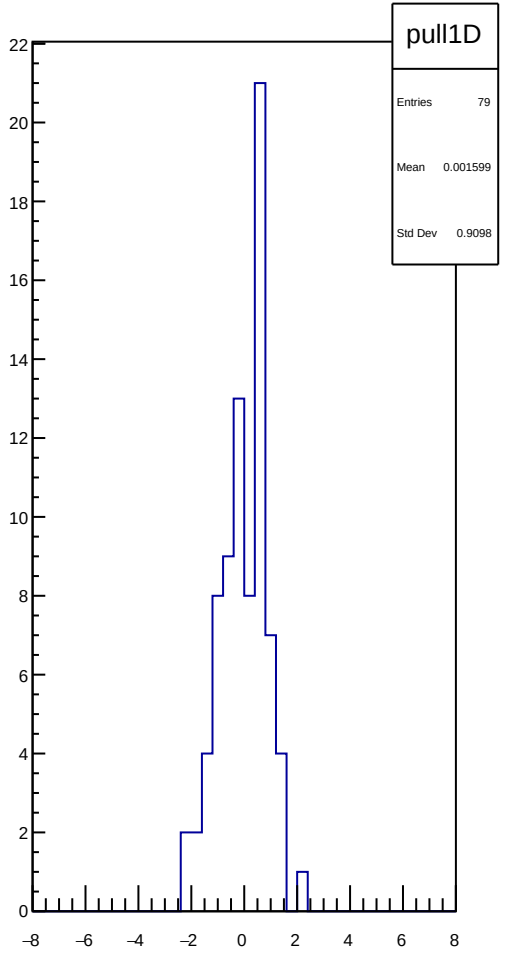

pull1D
Entries 79
Mean 0.002327
Std Dev 0.9667
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

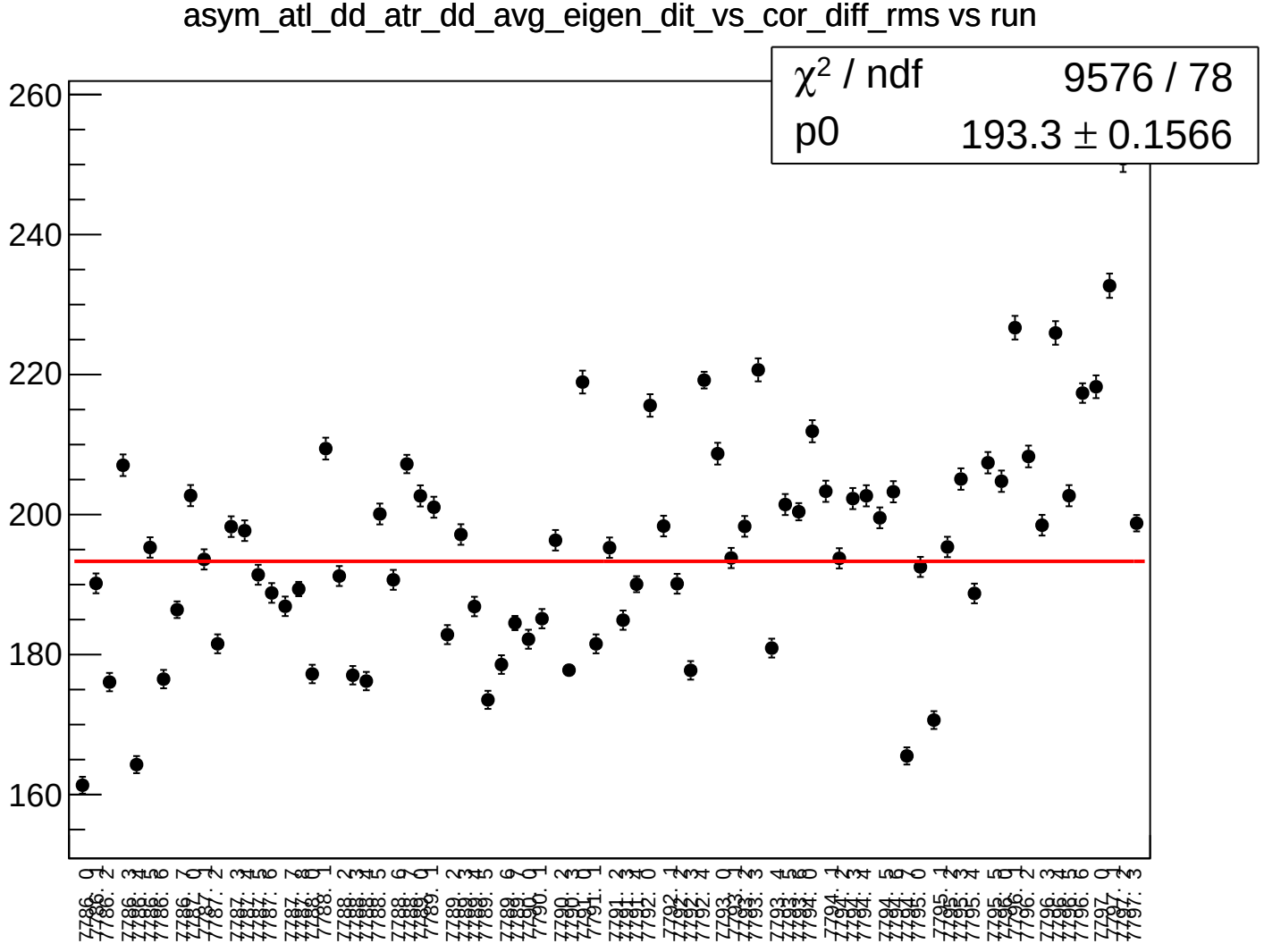

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1919 / 78
p0 0.01243 ± 1.005e−05
0.0135
0.013
0.0125
0.012
0.0115
0.011

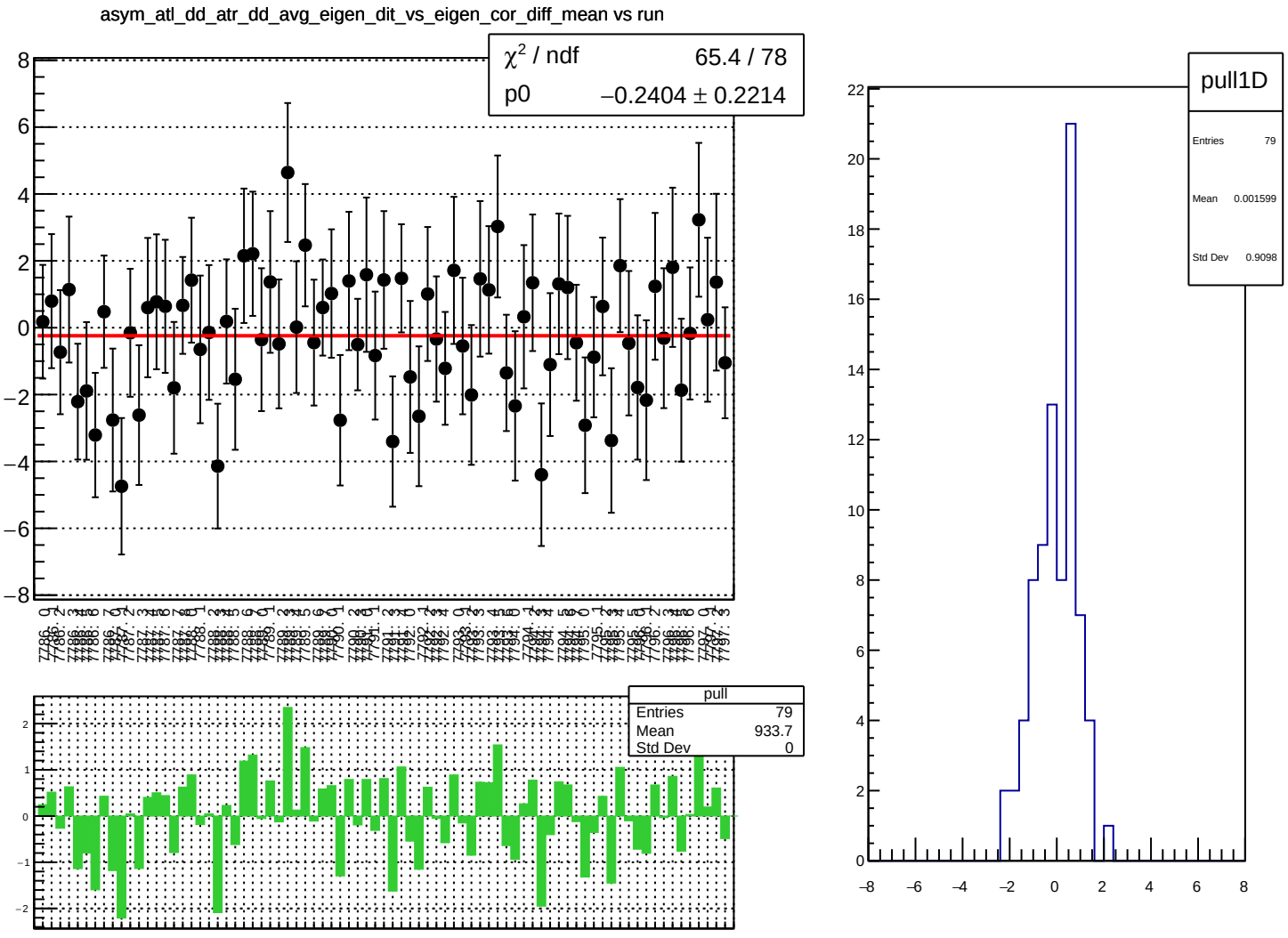
asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

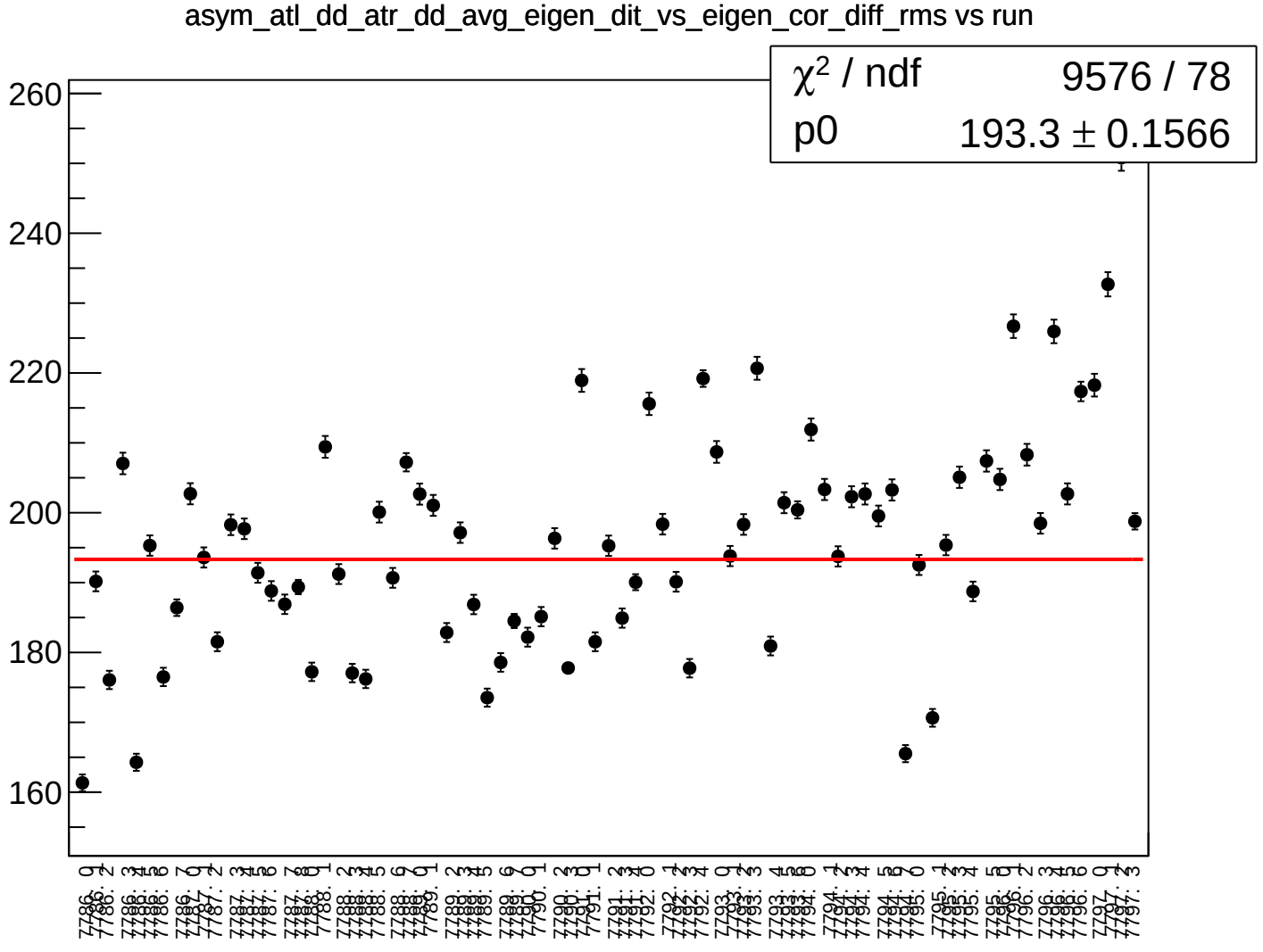


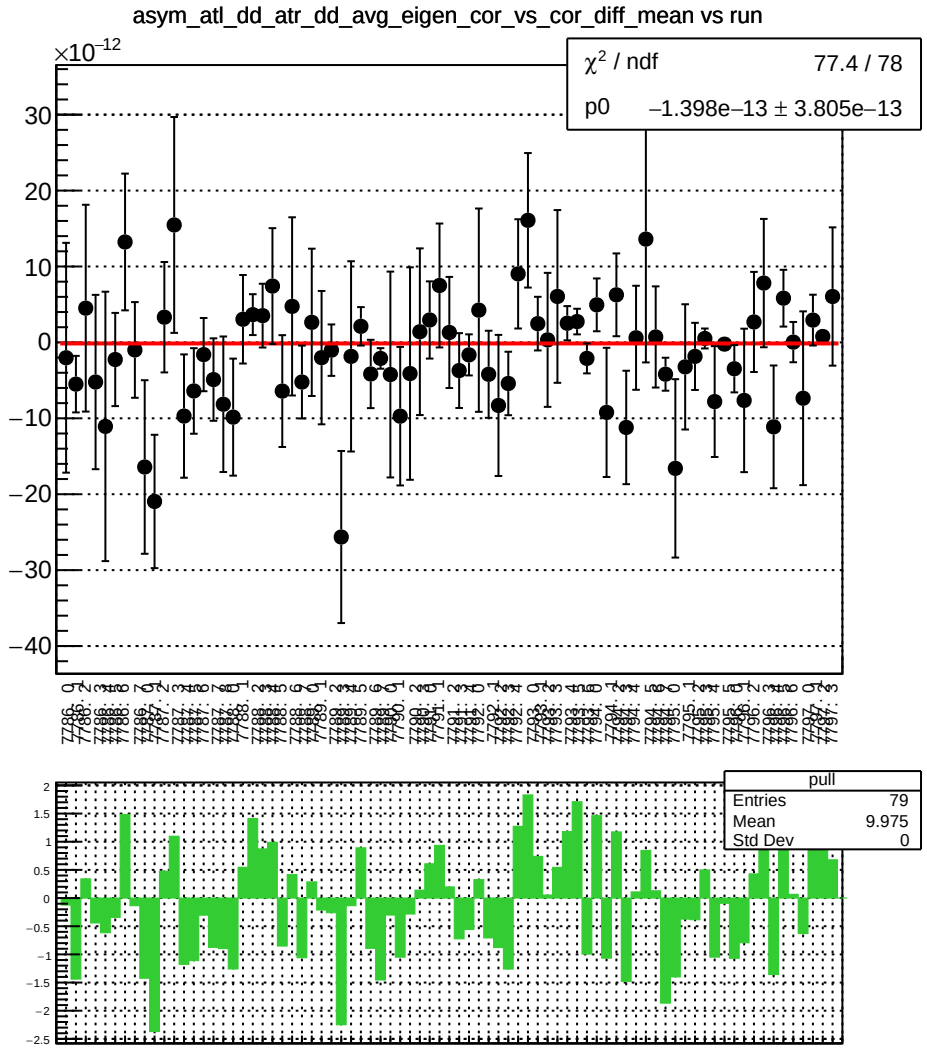


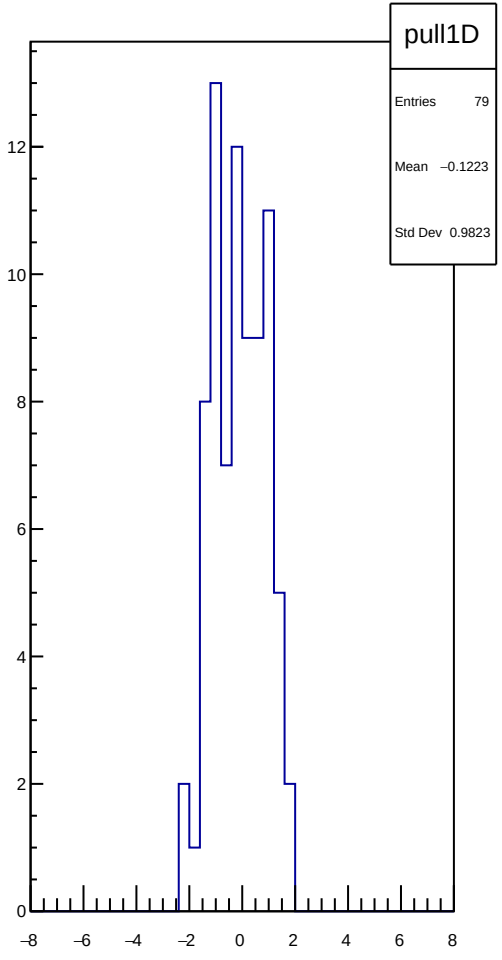


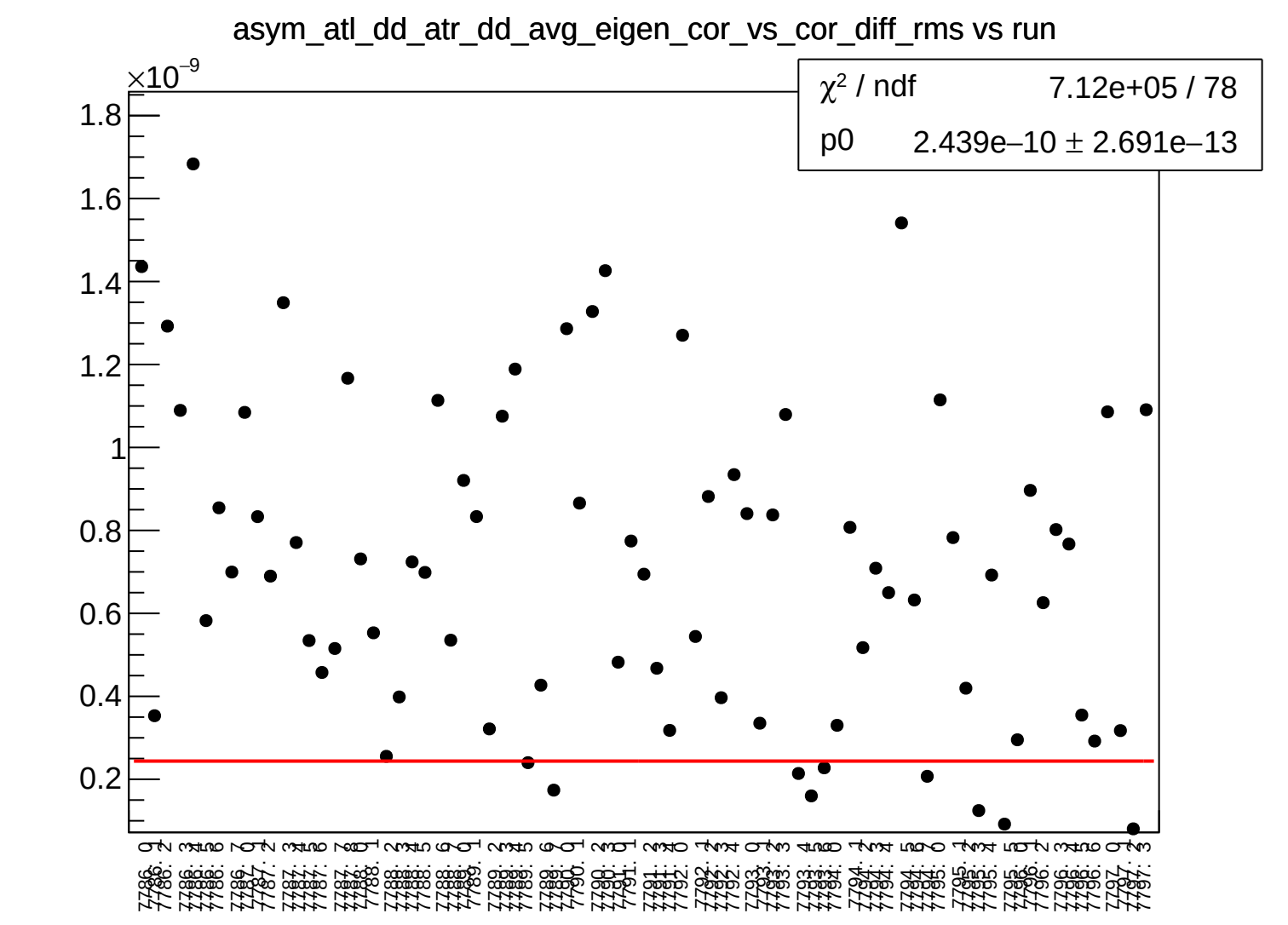

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9576 / 78
p0 193.3 ± 0.1566
260
240
220
200
180
160

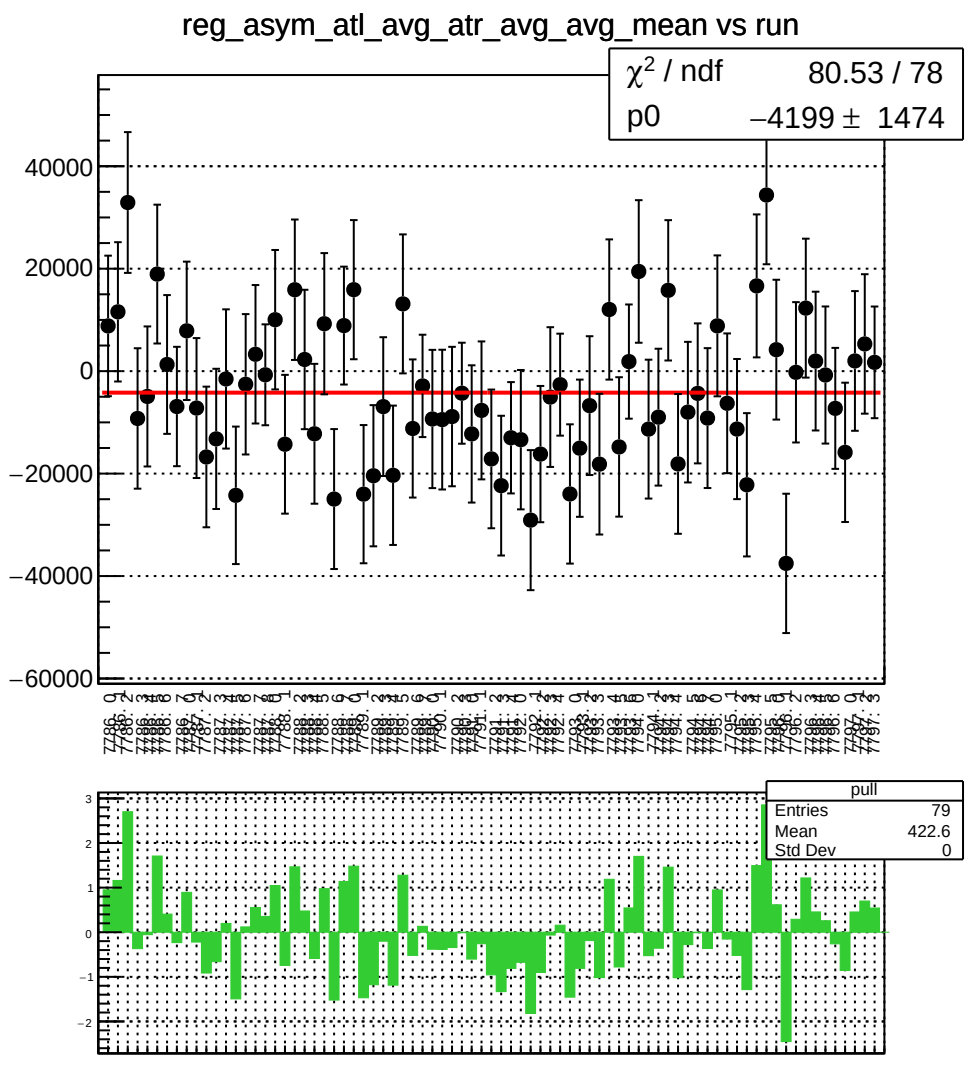

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.4 / 78
p0 −0.2404 ± 0.2214
pull
Entries 79
Mean 933.7
Std Dev 0
pull1D
Entries 79
Mean 0.001599
Std Dev 0.9098

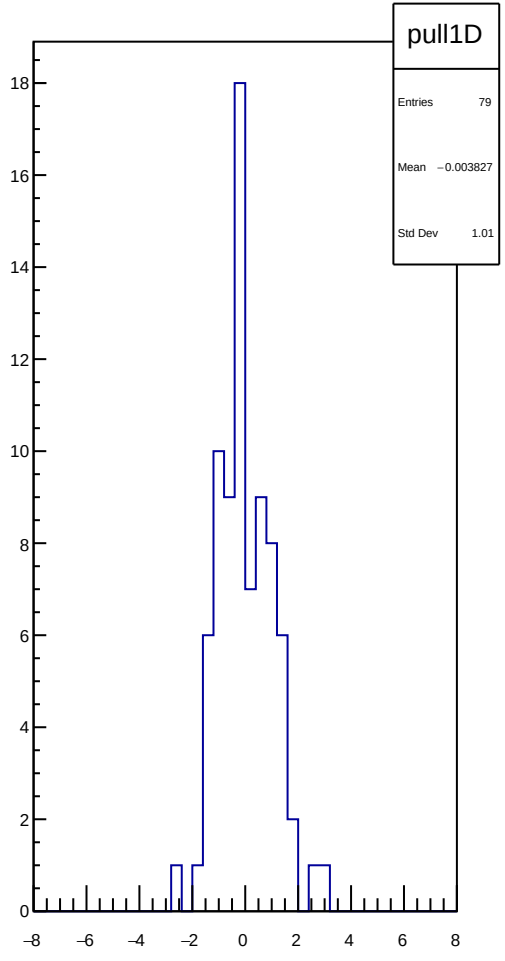

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9576 / 78
p0 193.3 ± 0.1566
260
240
220
200
180
160

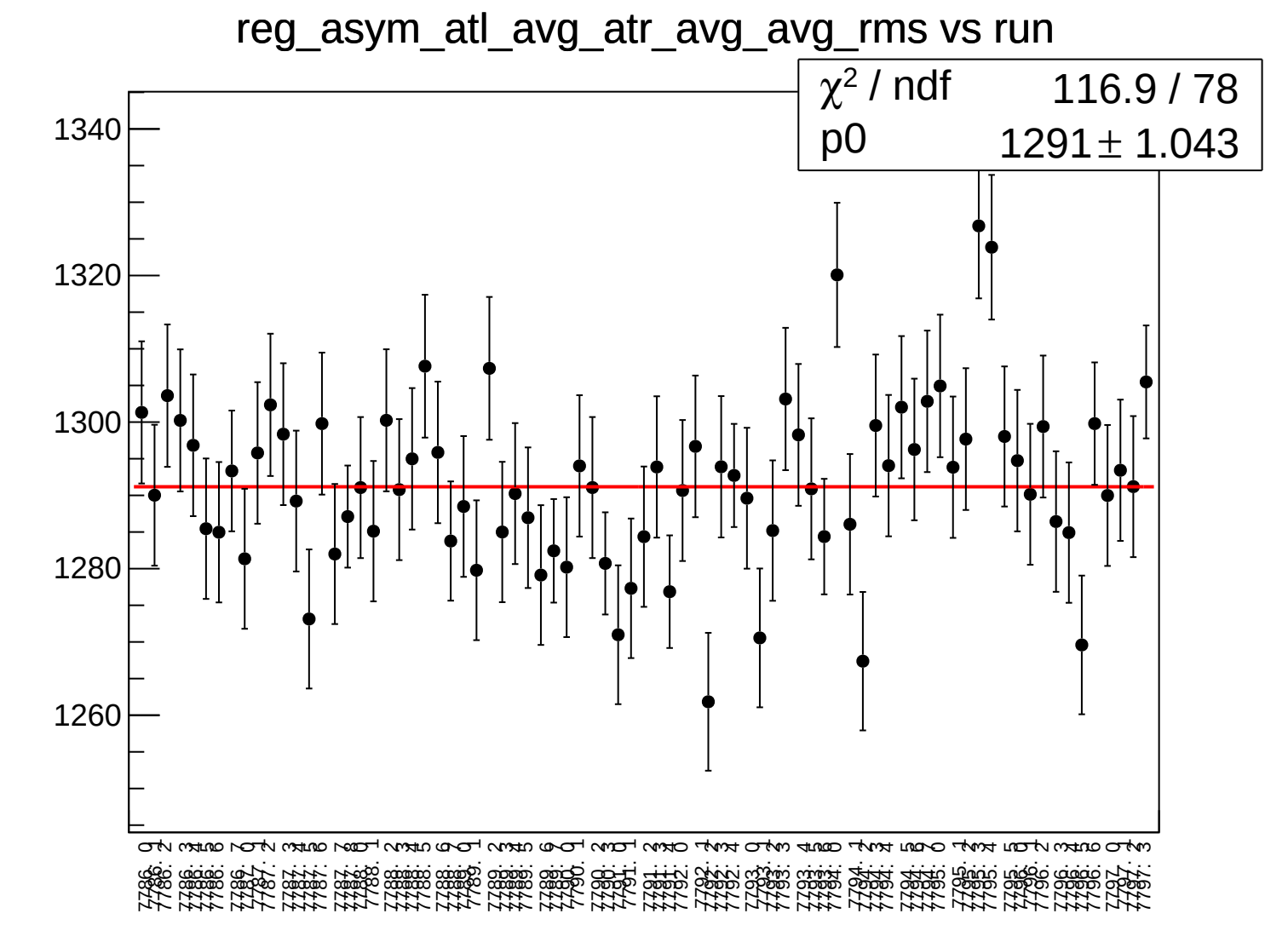

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.4 / 78
p0 −1.398e−13 ± 3.805e−13
pull
Entries 79
Mean 9.975
Std Dev 0

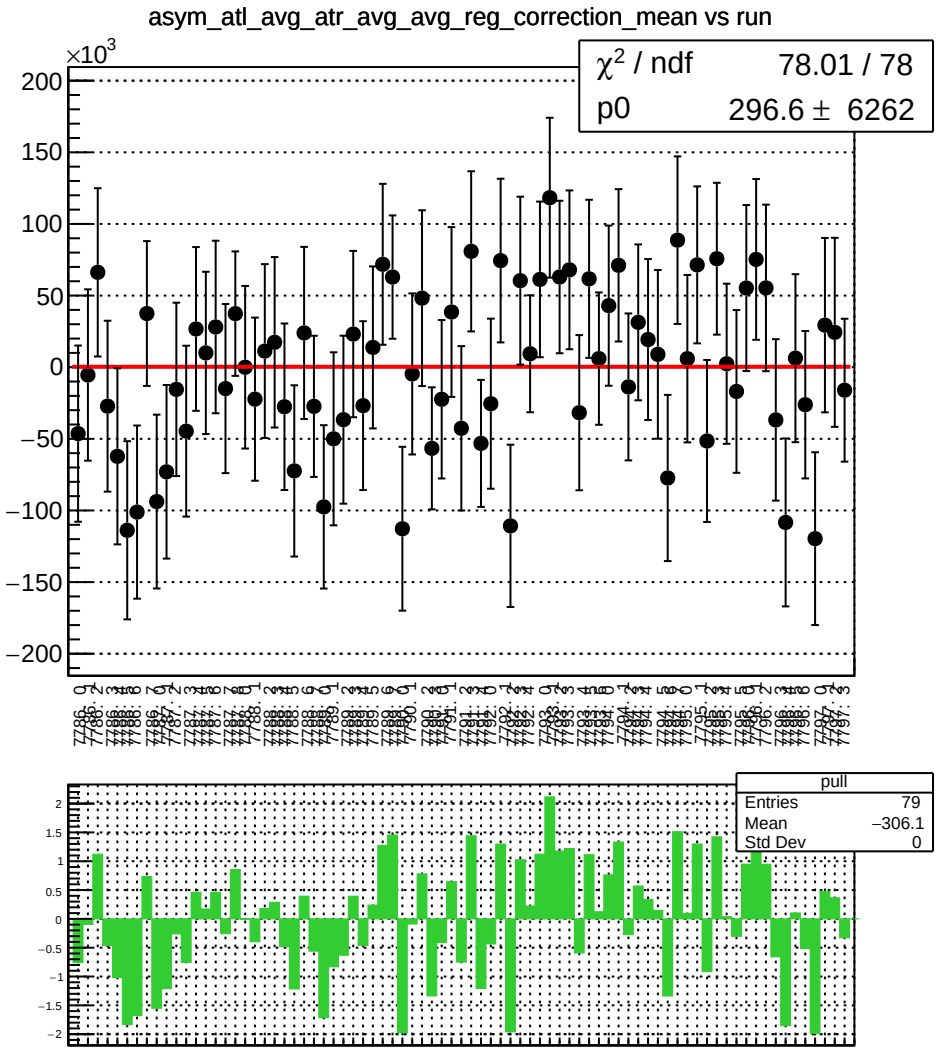

pull1D
Entries 79
Mean −0.1223
Std Dev 0.9823

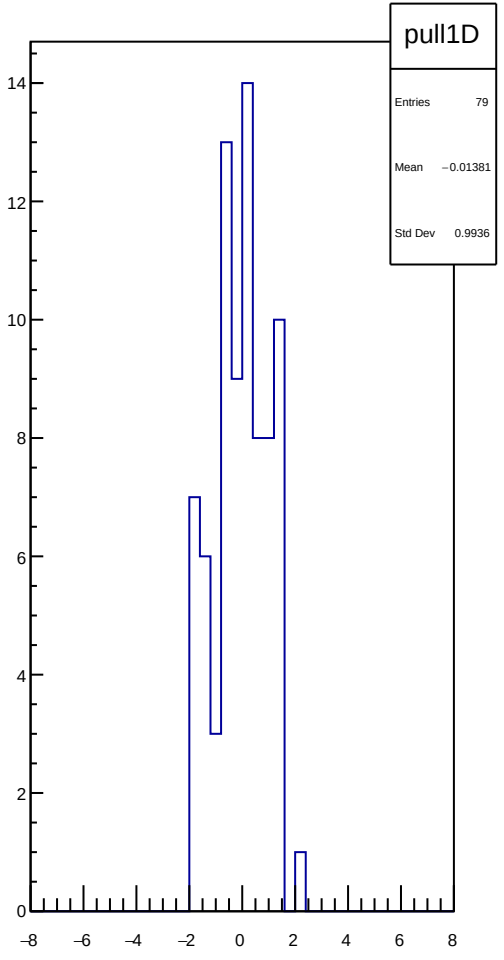

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.12e+05 / 78
p0 2.439e−10 ± 2.691e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

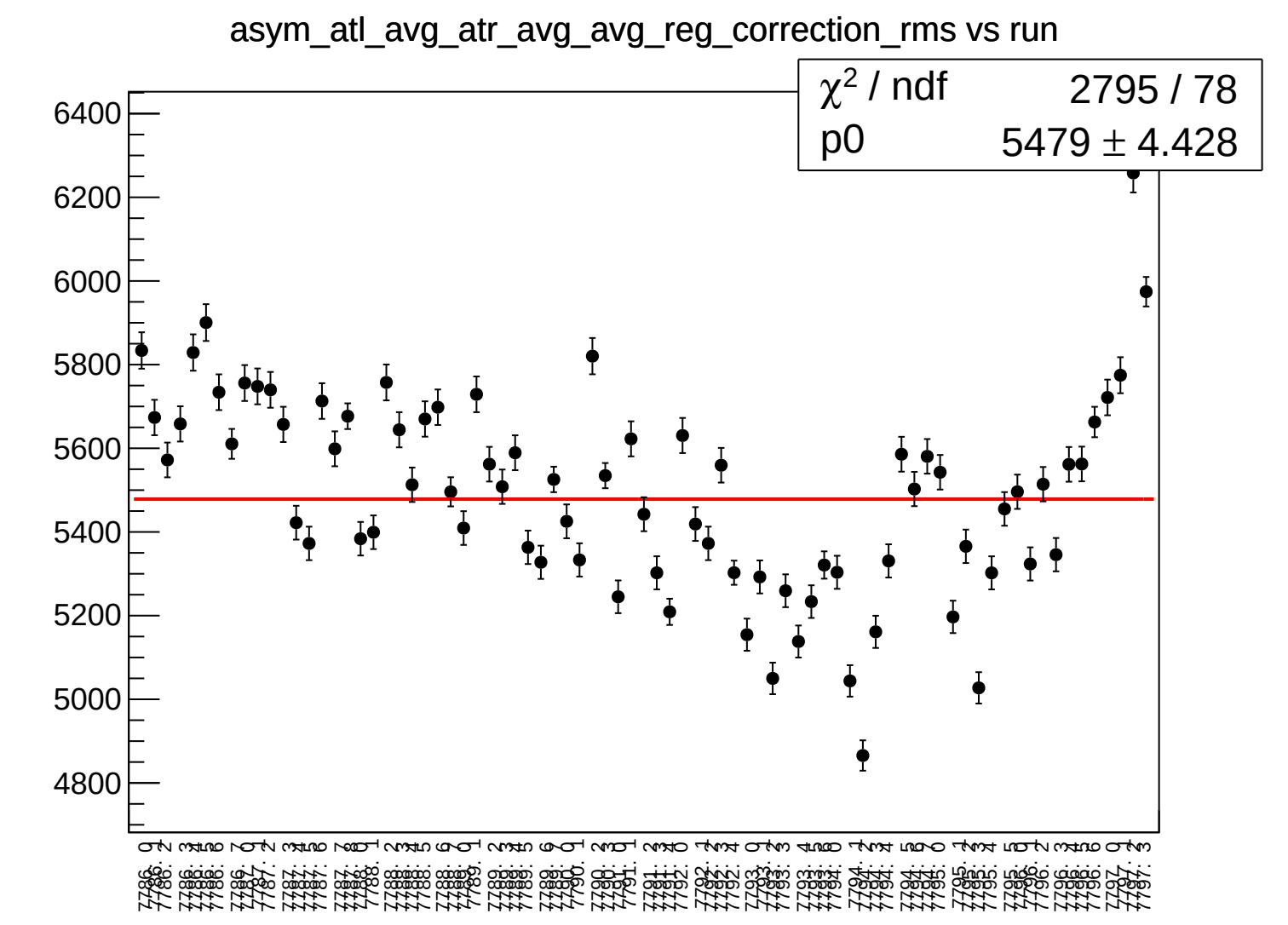

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.53 / 78
p0 −4199 ± 1474
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 422.6
Std Dev 0
3
2
1
0
−1
−2

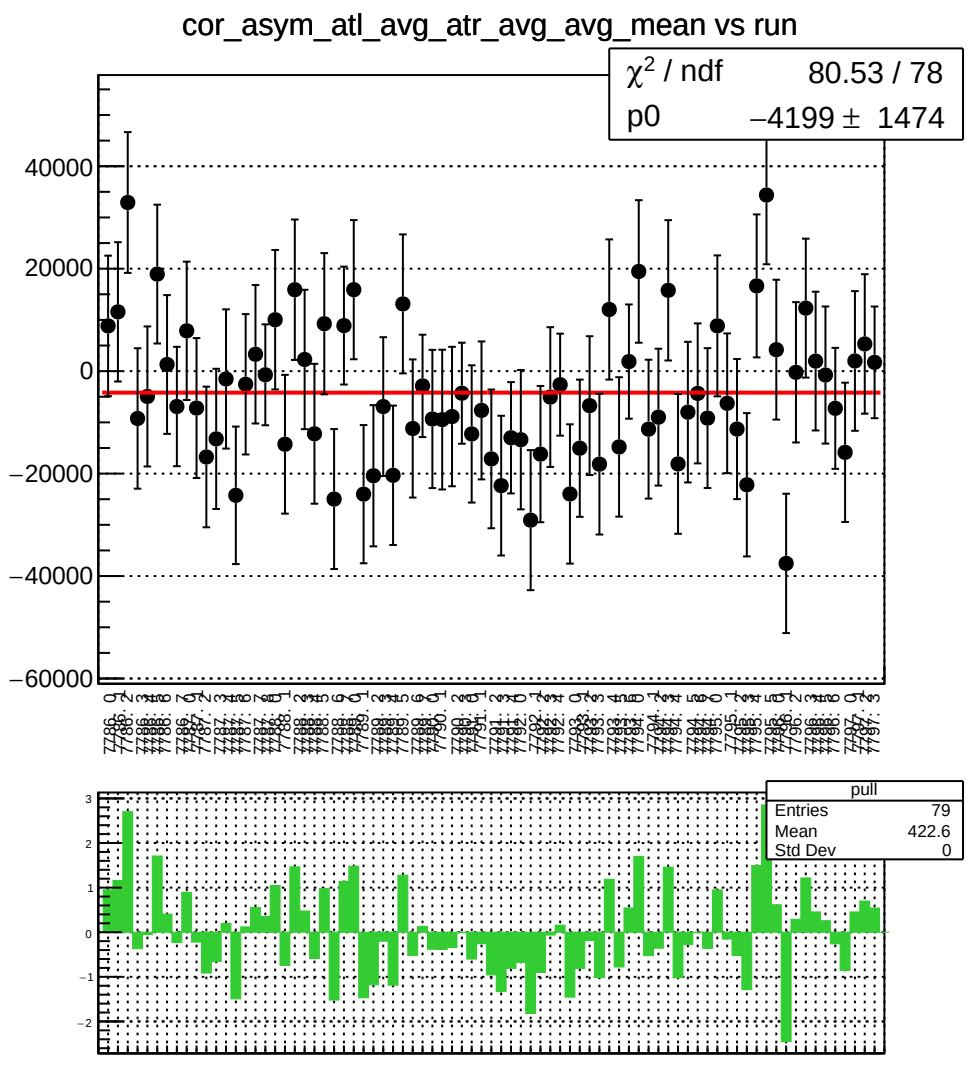

pull1D
Entries 79
Mean −0.003827
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

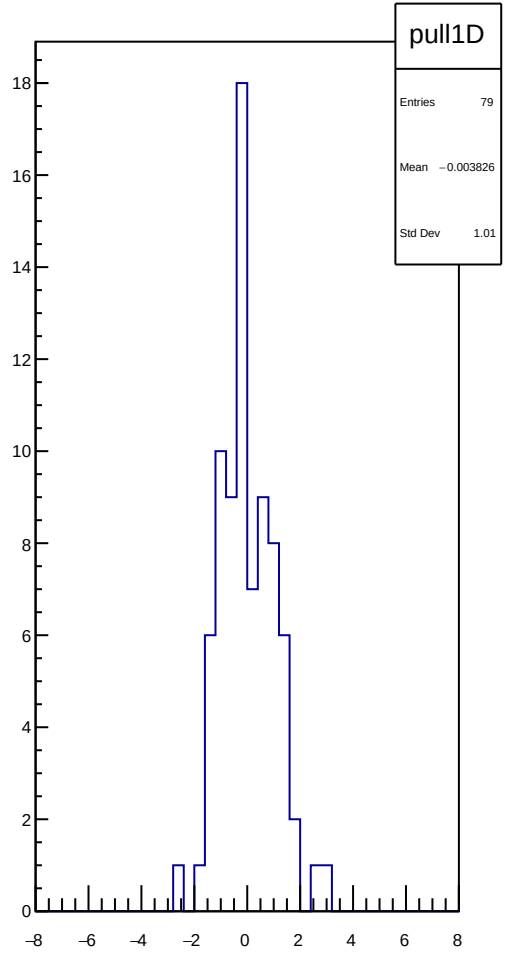

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 116.9 / 78
p0 1291 ± 1.043
1340
1320
1300
1280
1260

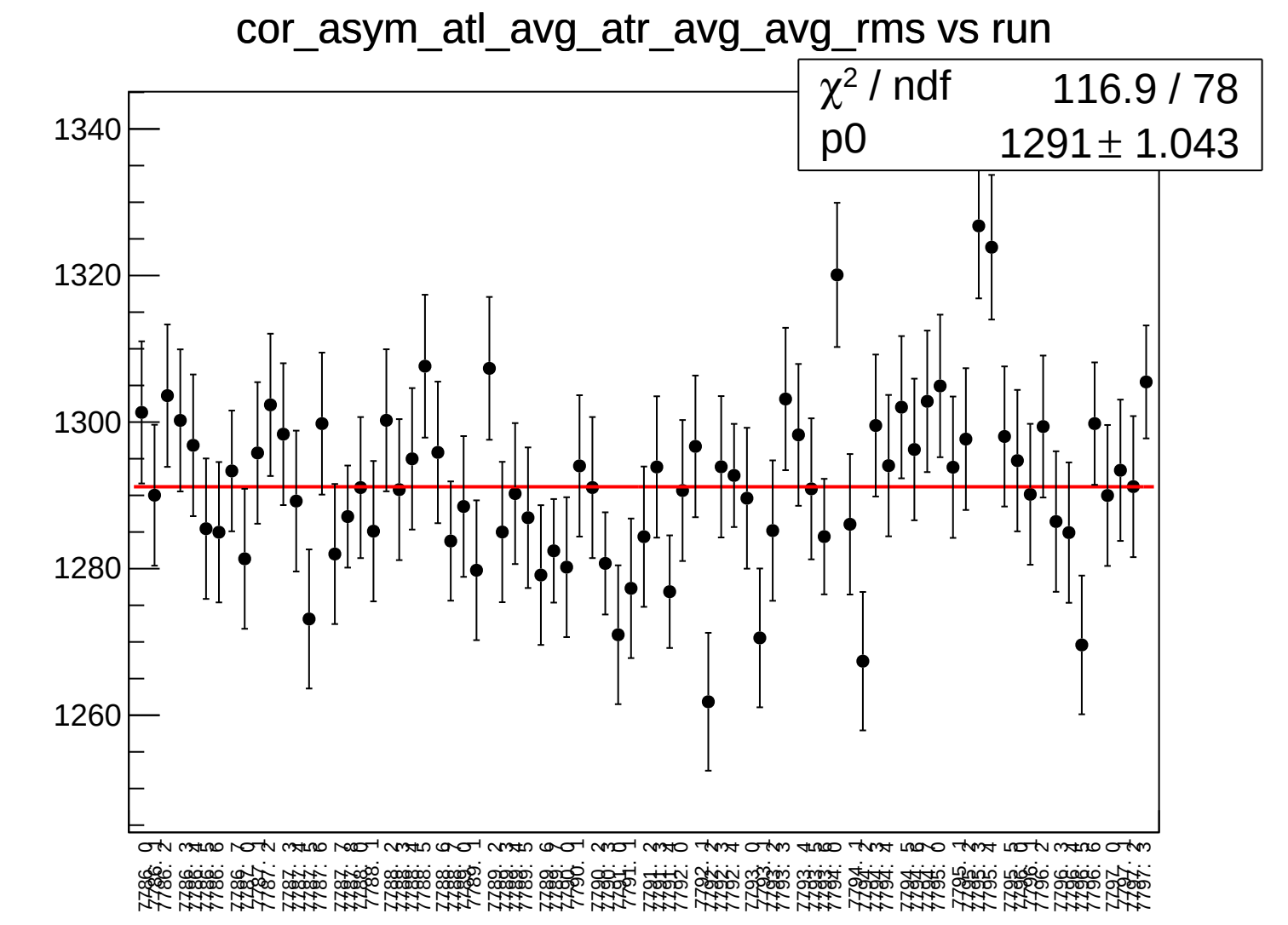

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.01 / 78
p0 296.6 ± 6262
pull
Entries 79
Mean −306.1
Std Dev 0

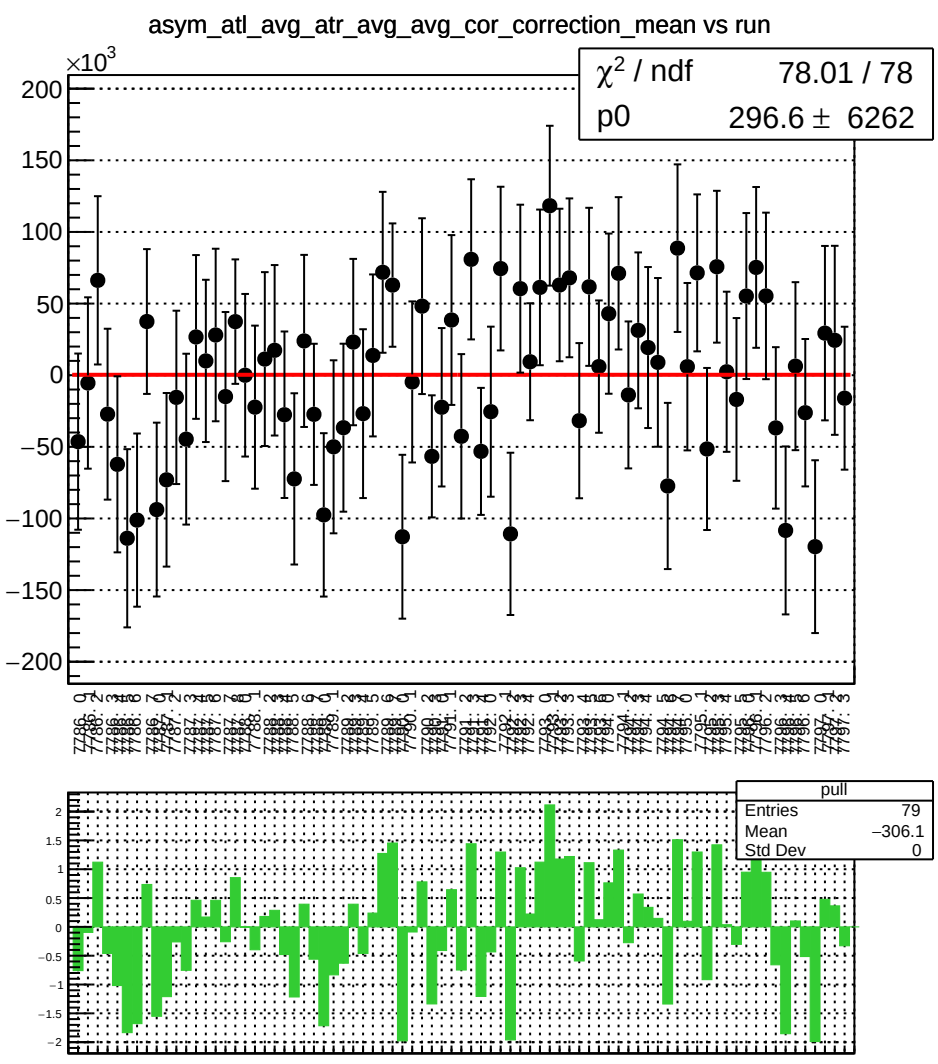

pull1D
Entries 79
Mean −0.01381
Std Dev 0.9936

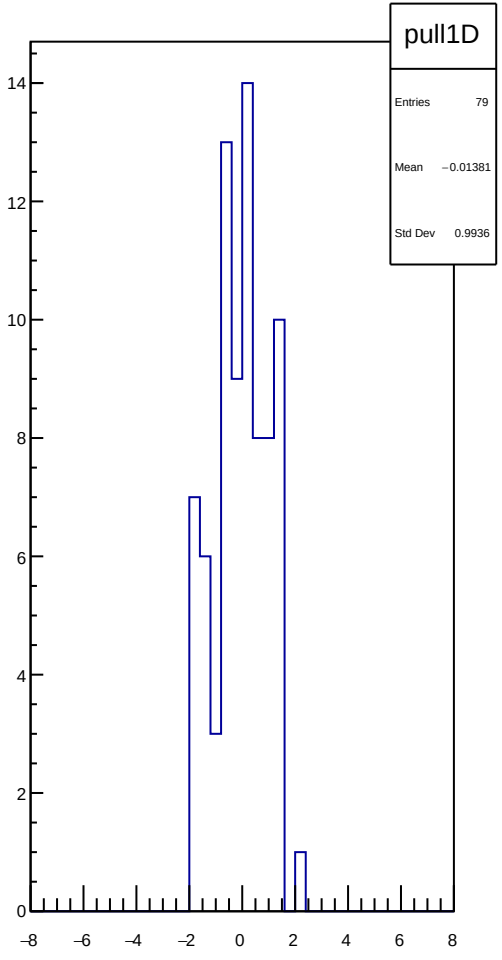

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 2795 / 78
p0 5479 ± 4.428
6400
6200
6000
5800
5600
5400
5200
5000
4800

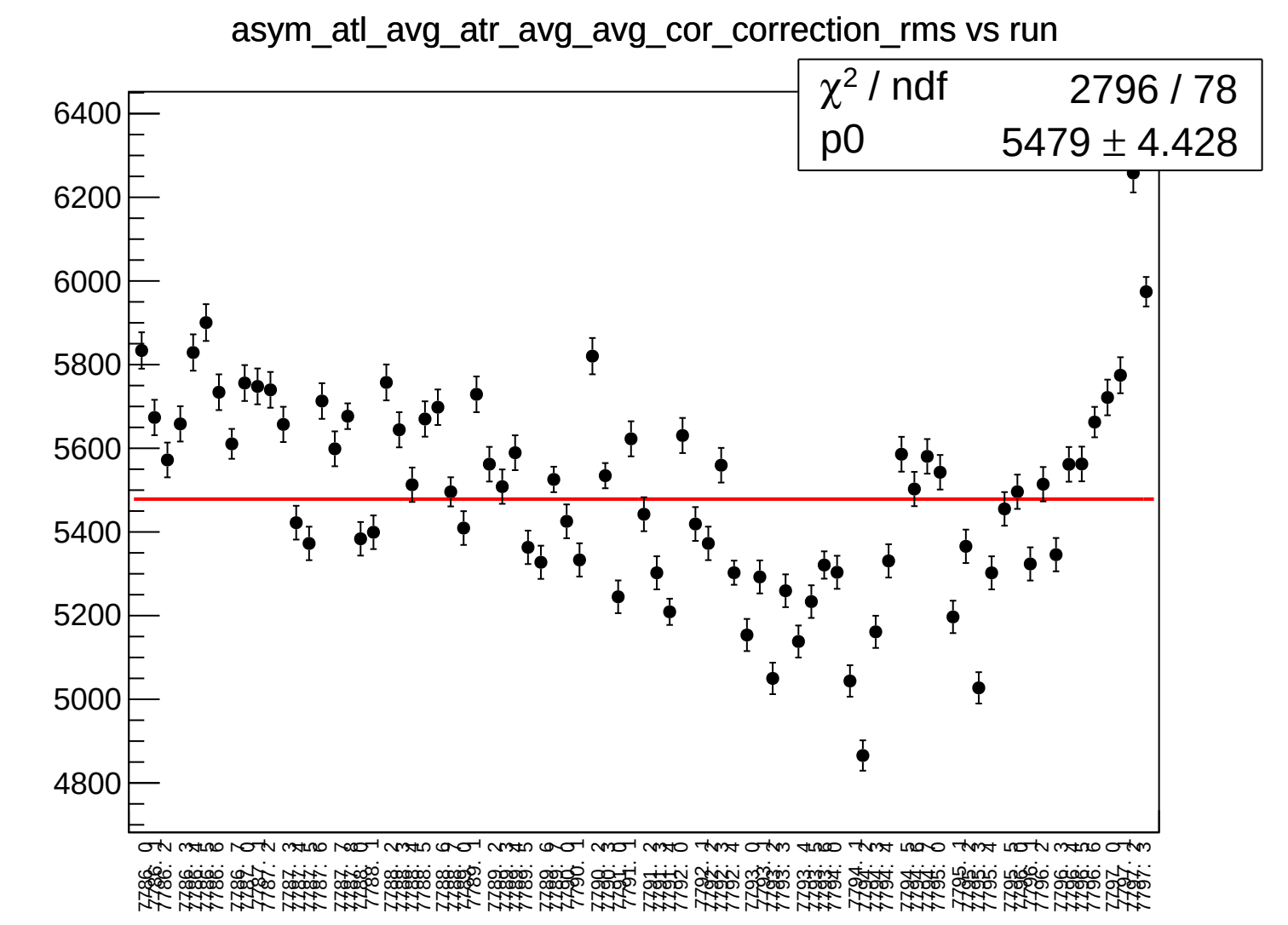

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.53 / 78
p0 −4199 ± 1474
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 422.6
Std Dev 0
3
2
1
0
−1
−2

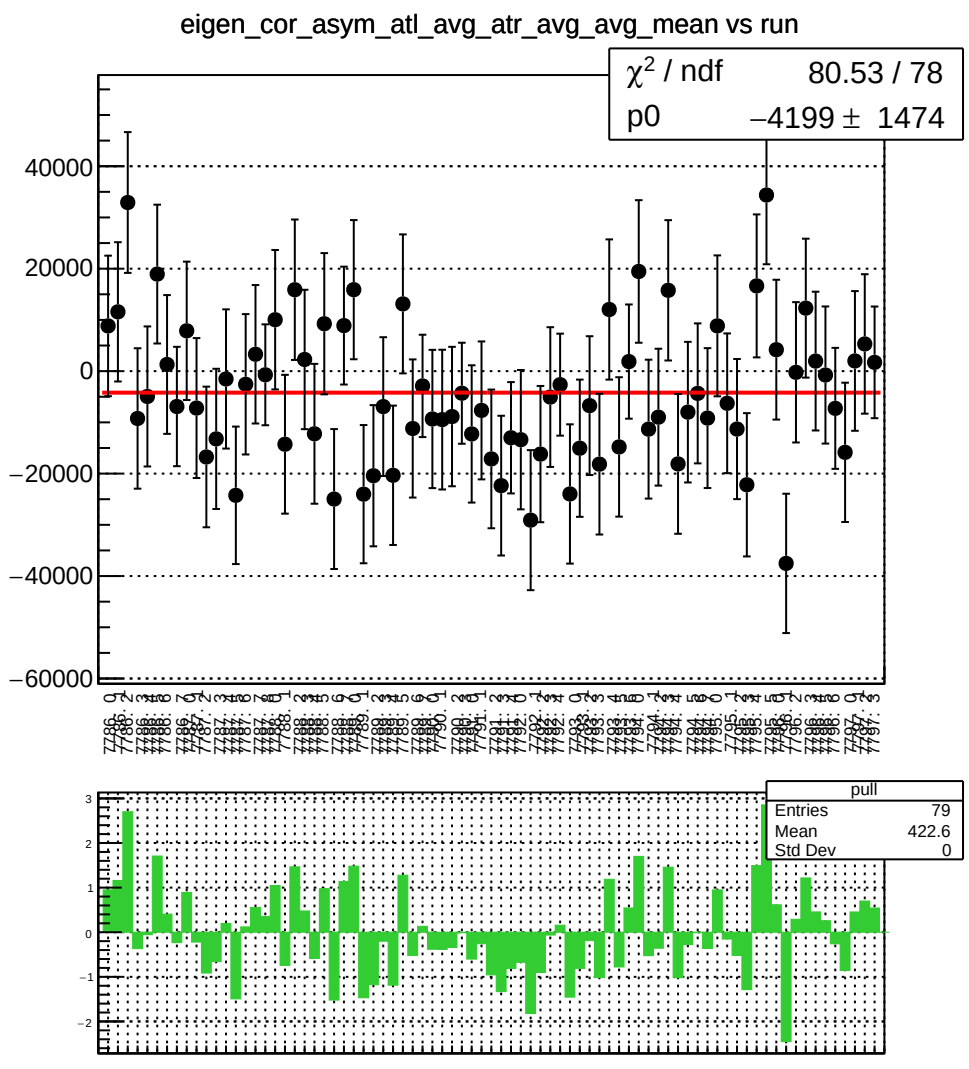

pull1D
Entries 79
Mean −0.003826
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

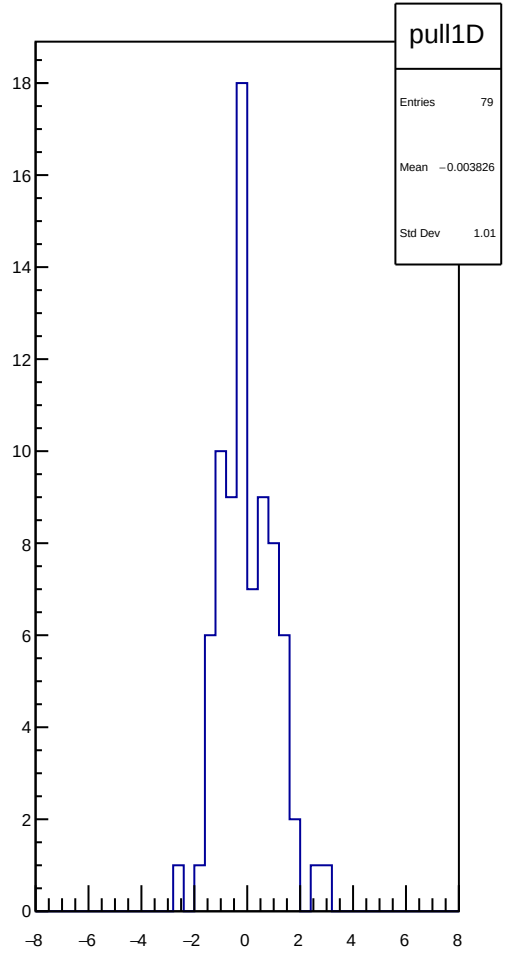

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 116.9 / 78
p0 1291 ± 1.043
1340
1320
1300
1280
1260

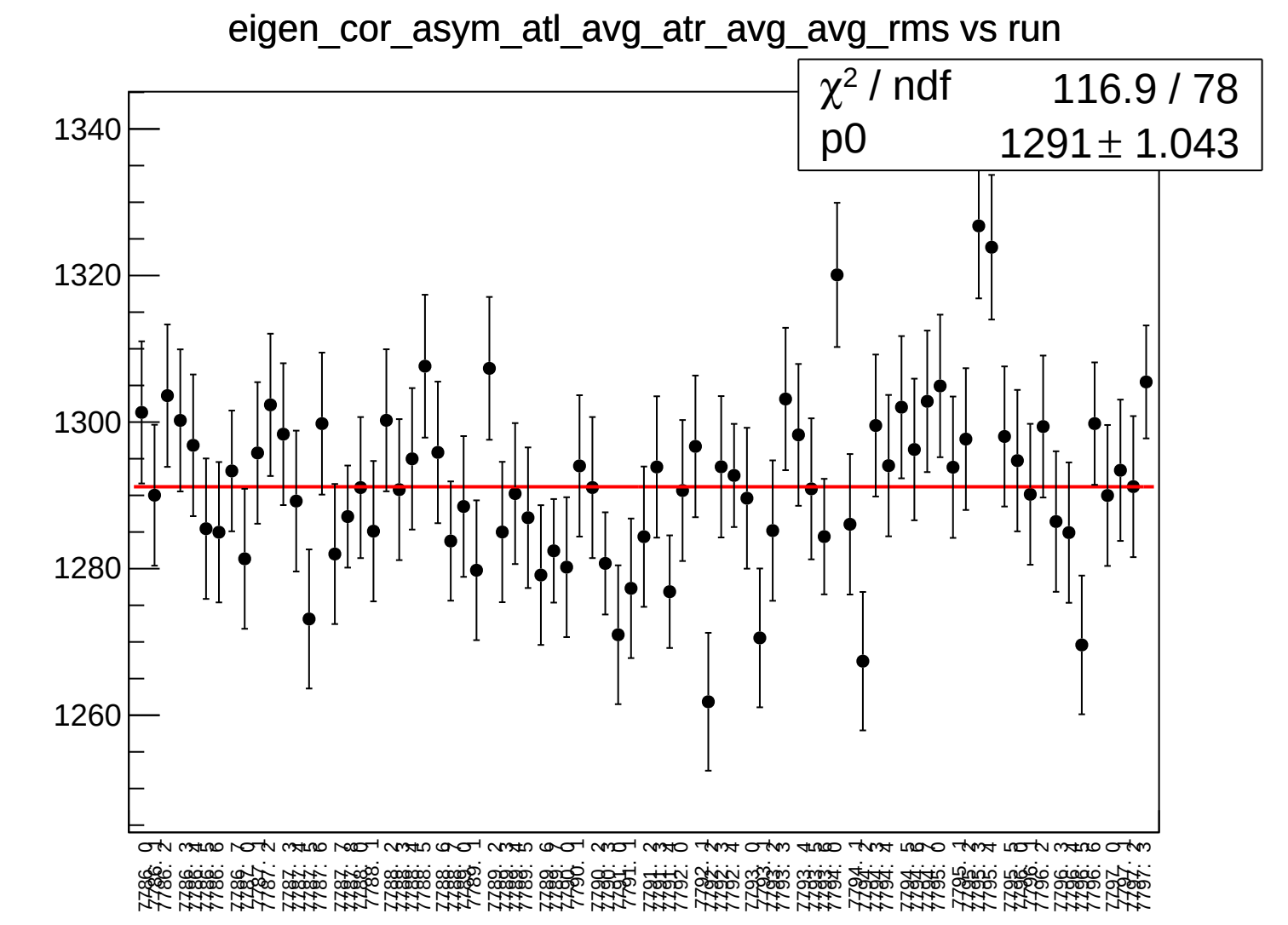

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.01 / 78
p0 296.6 ± 6262
pull
Entries 79
Mean −306.1
Std Dev 0

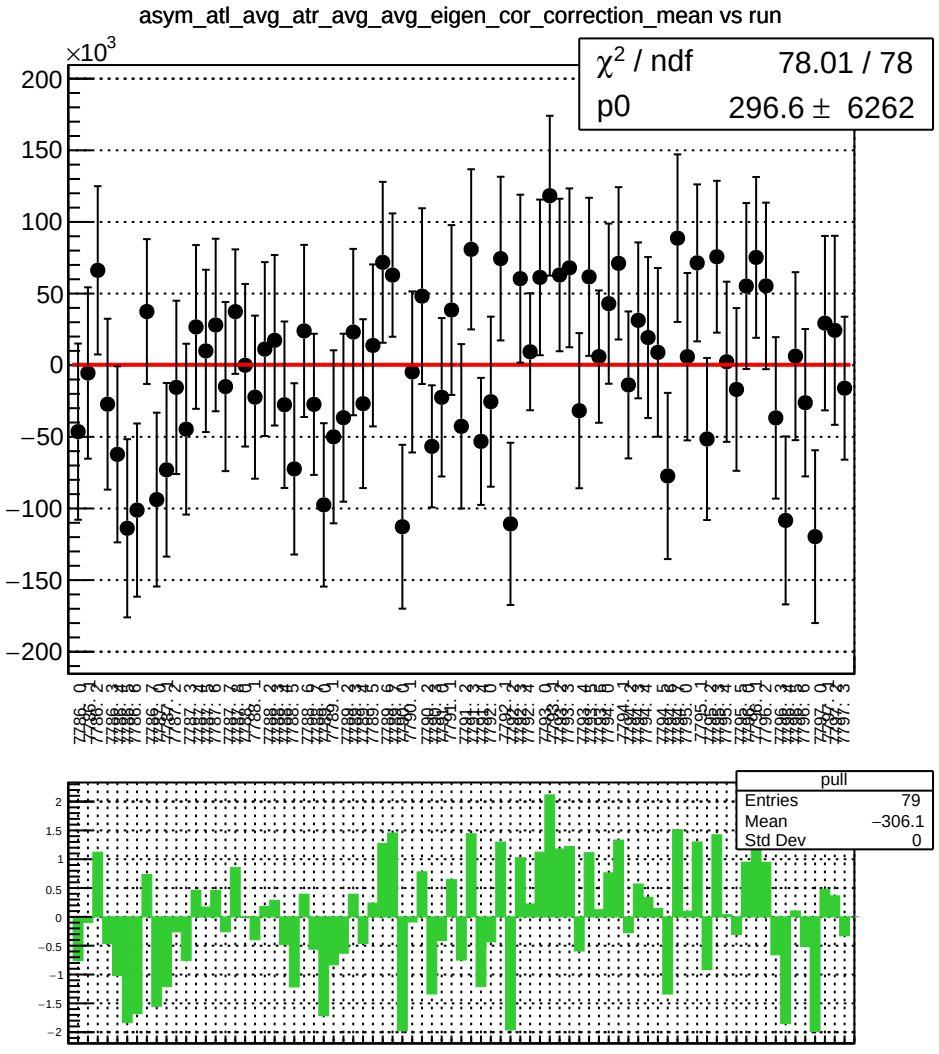

pull1D
Entries 79
Mean −0.01381
Std Dev 0.9936

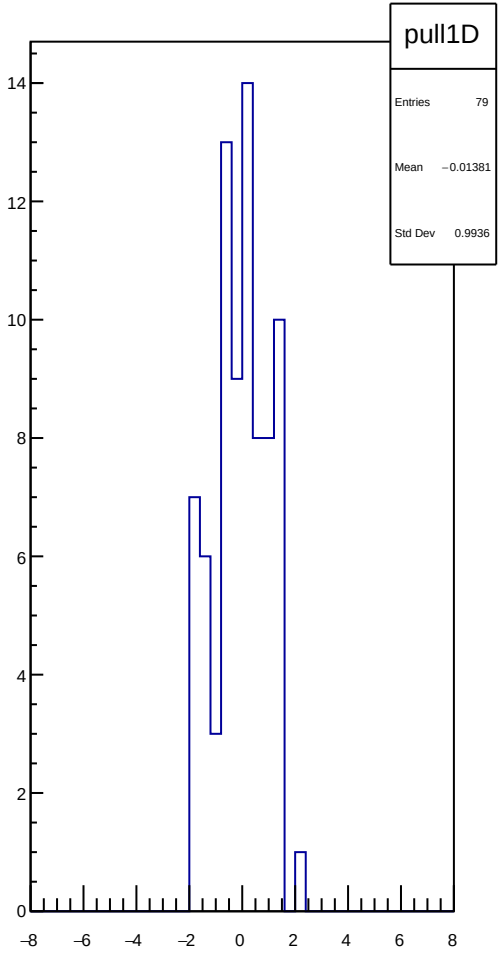

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 2796 / 78
p0 5479 ± 4.428
6400
6200
6000
5800
5600
5400
5200
5000
4800

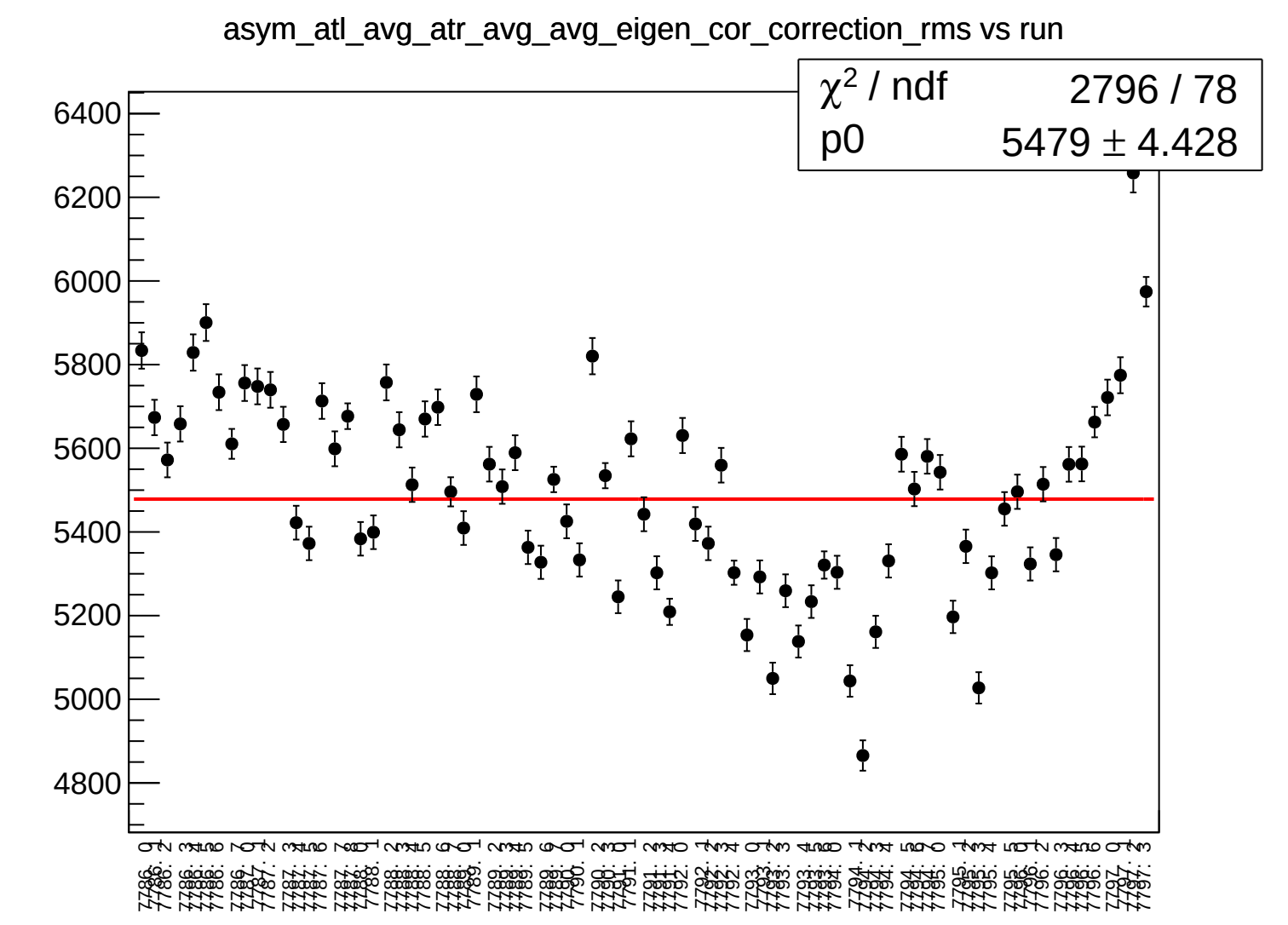

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.53 / 78
p0 −4199 ± 1474
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 422.6
Std Dev 0
3
2
1
0
−1
−2

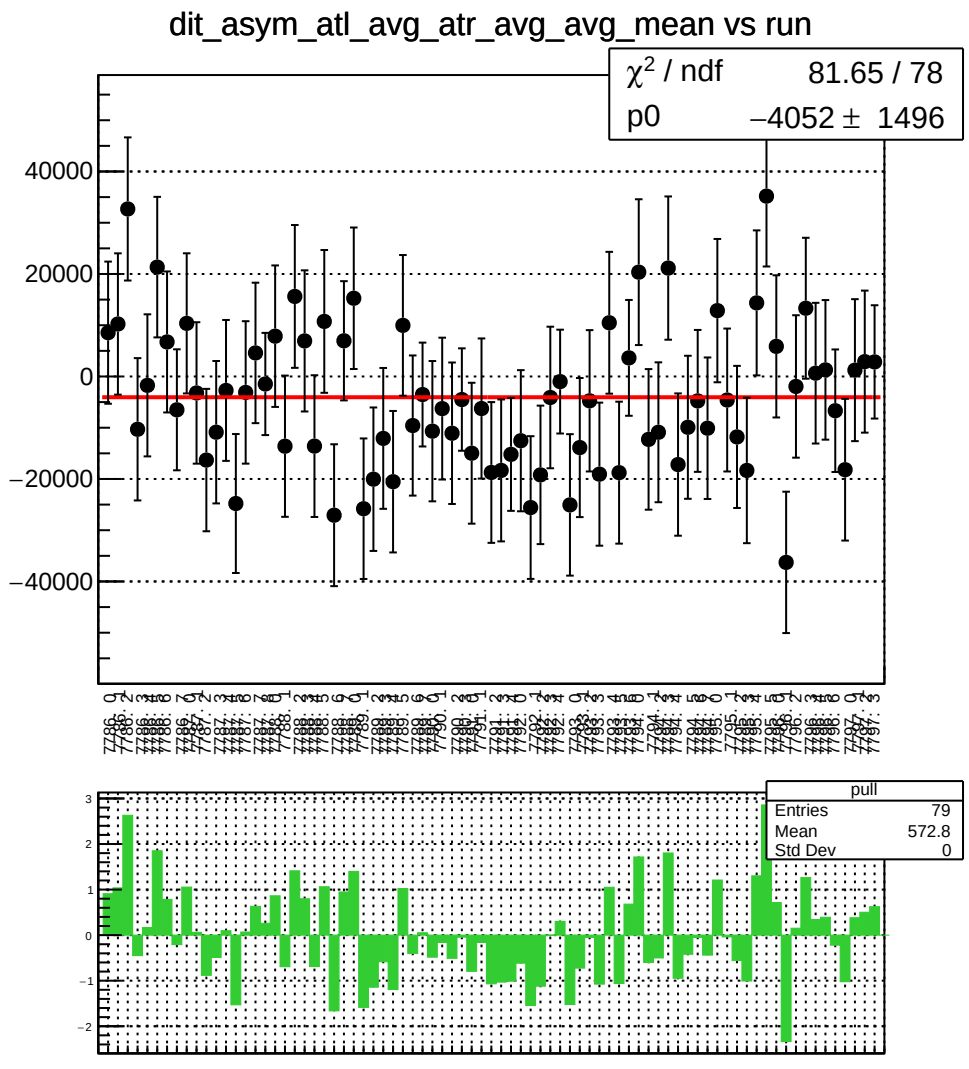

pull1D
Entries 79
Mean −0.003826
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

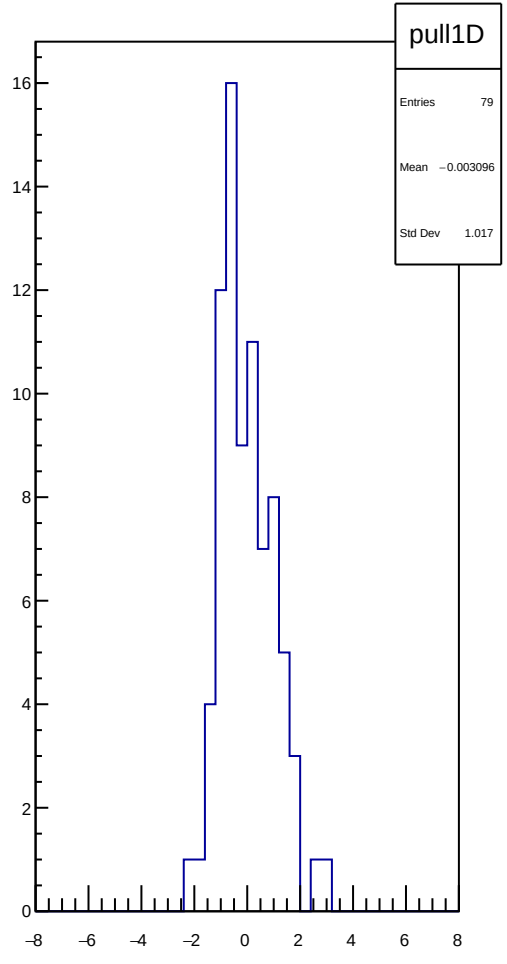

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 116.9 / 78
p0 1291 ± 1.043
1340
1320
1300
1280
1260

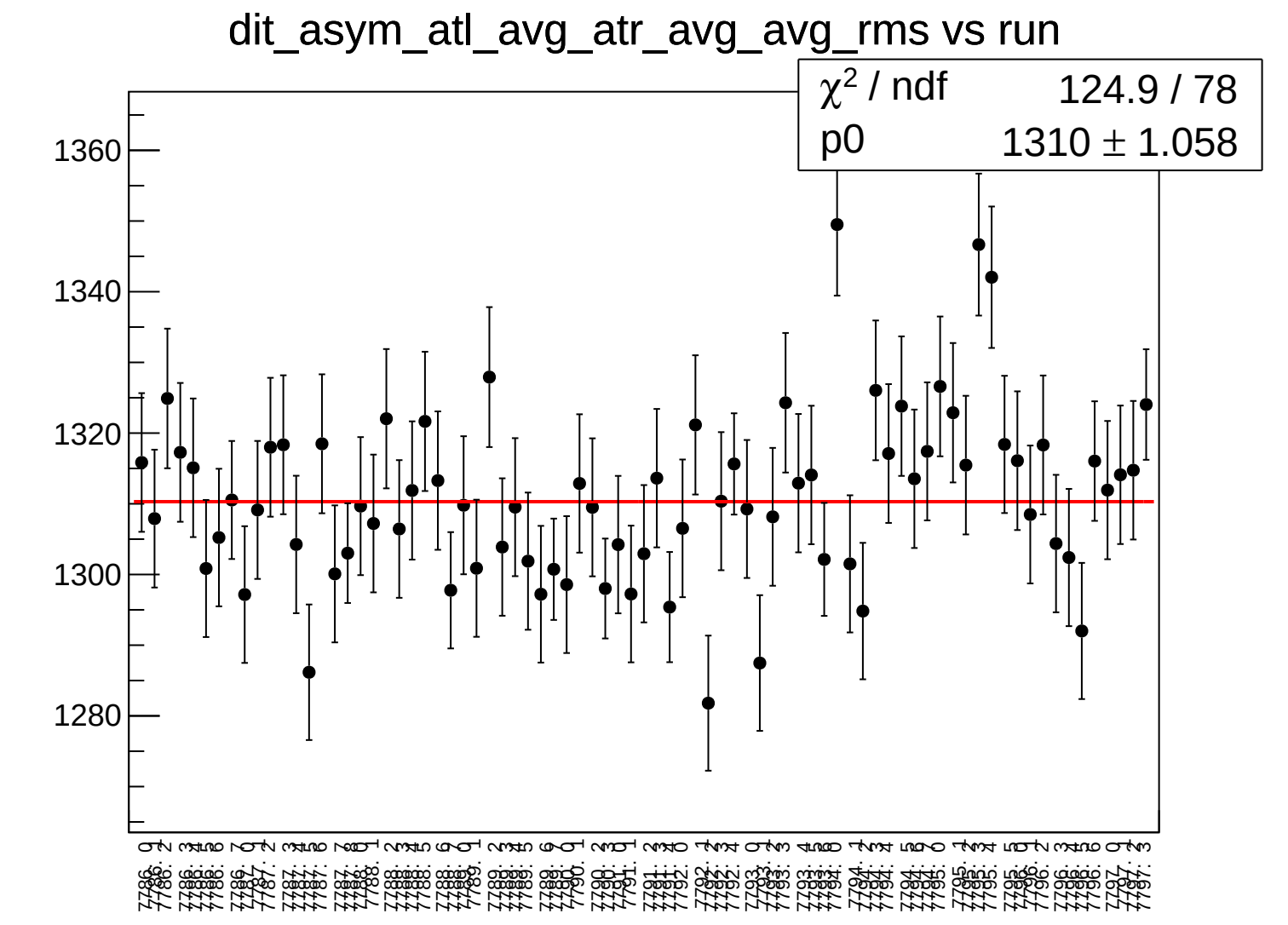

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.01 / 78
p0 296.6 ± 6262
pull
Entries 79
Mean −306.1
Std Dev 0

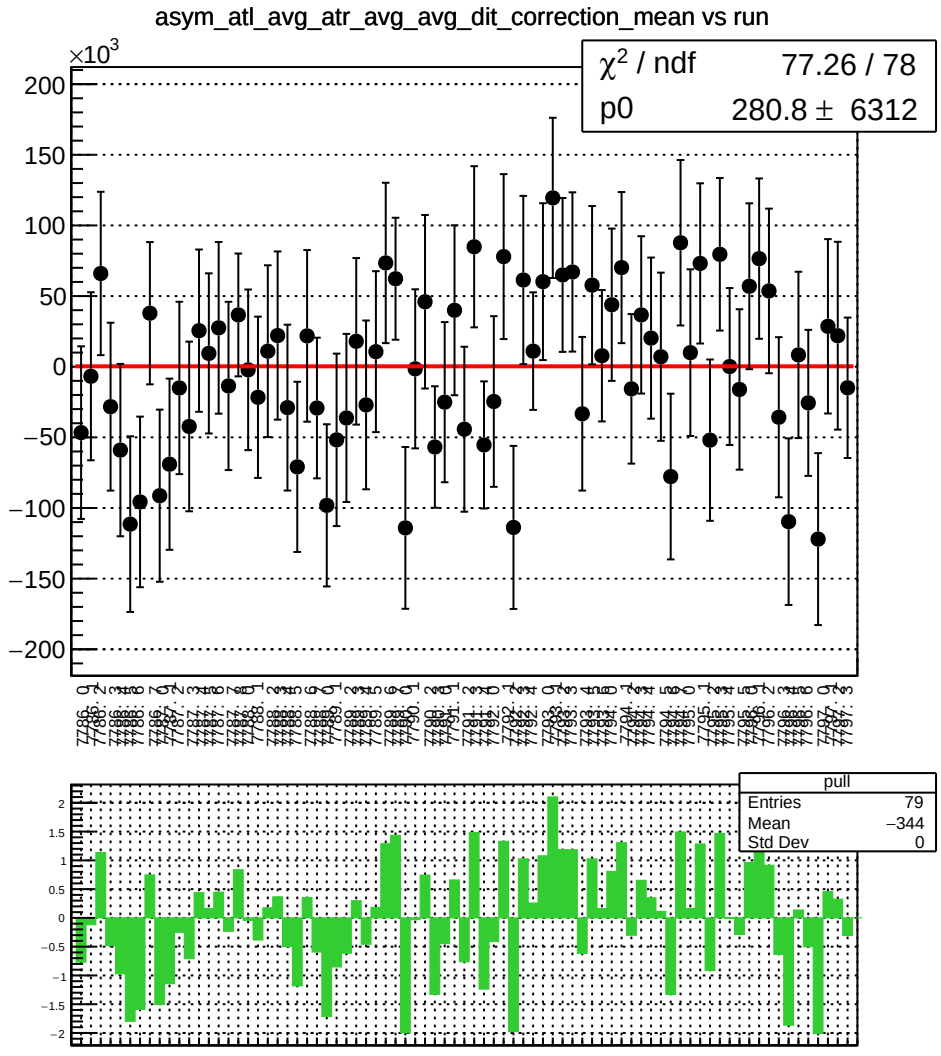

pull1D
Entries 79
Mean −0.01381
Std Dev 0.9936

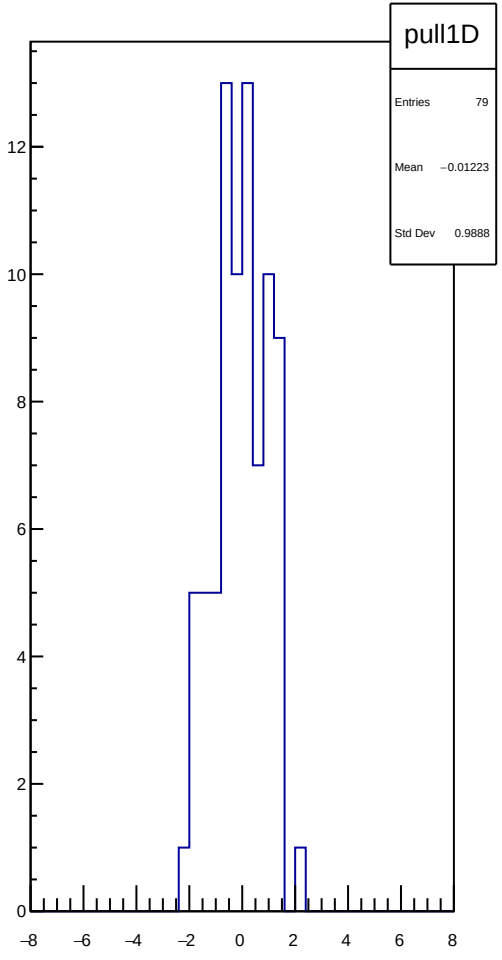

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2796 / 78
p0 5479 ± 4.428
6400
6200
6000
5800
5600
5400
5200
5000
4800

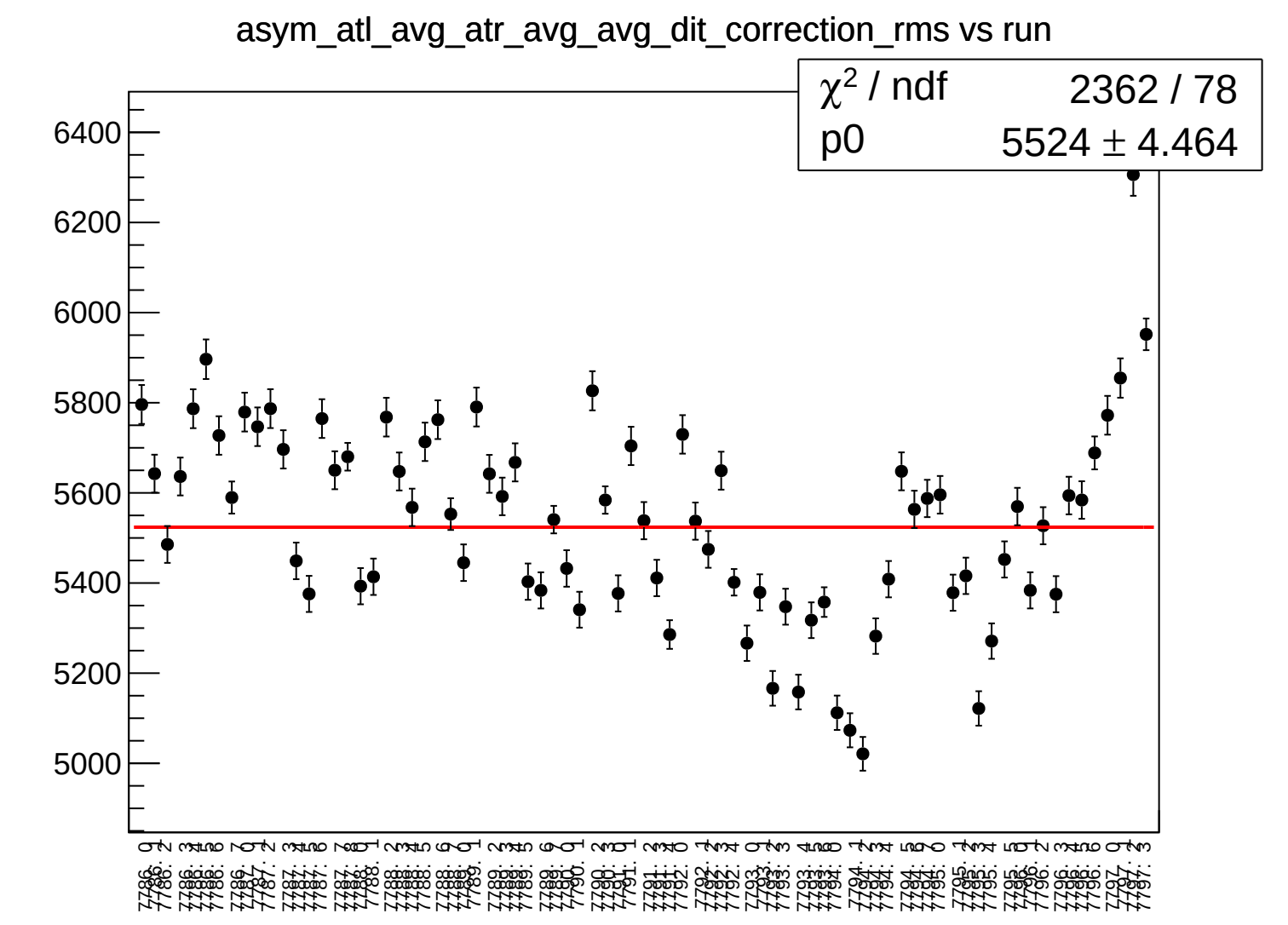

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 81.65 / 78
p0 −4052 ± 1496
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 572.8
Std Dev 0
3
2
1
0
−1
−2

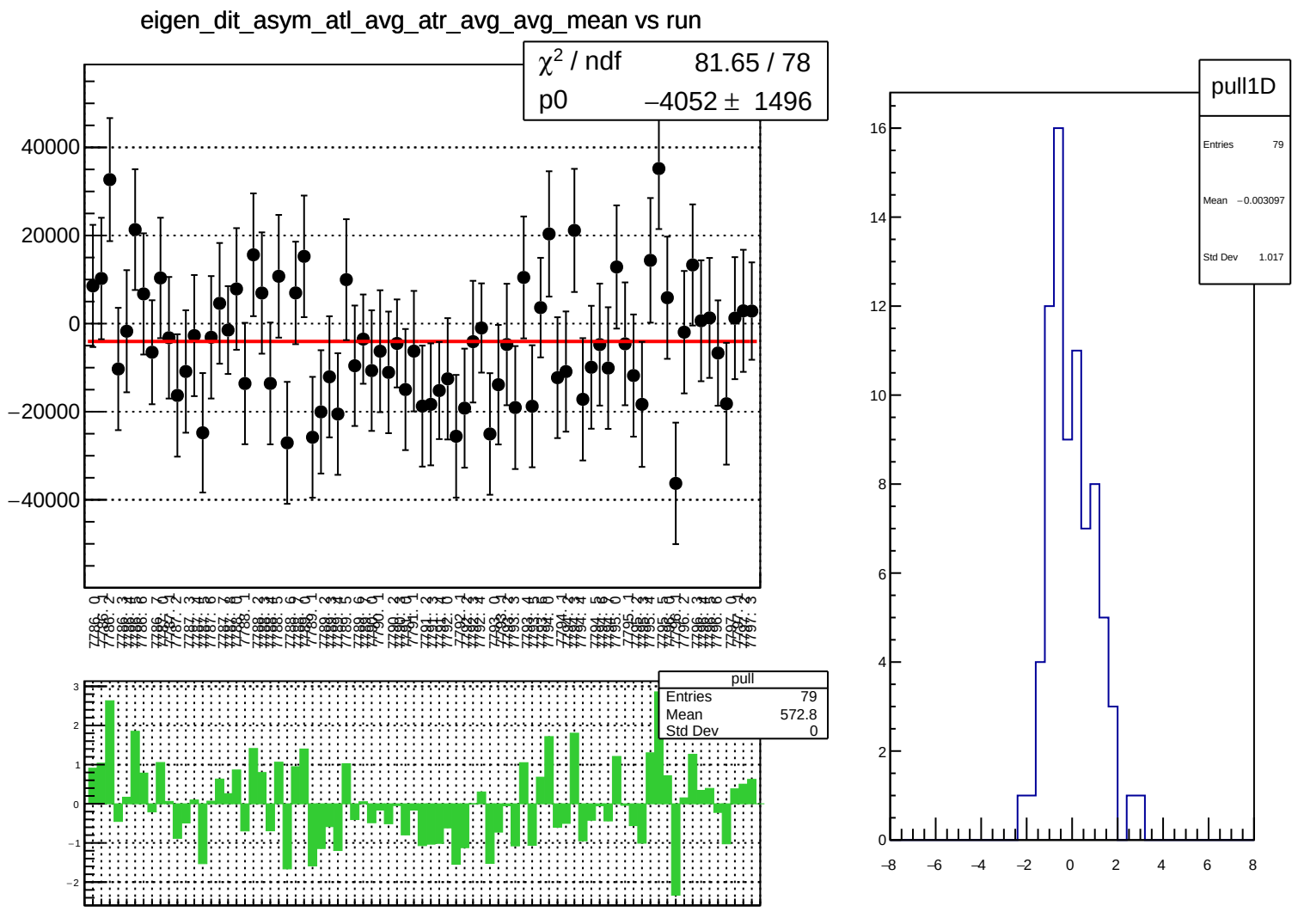

pull1D
Entries 79
Mean −0.003096
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

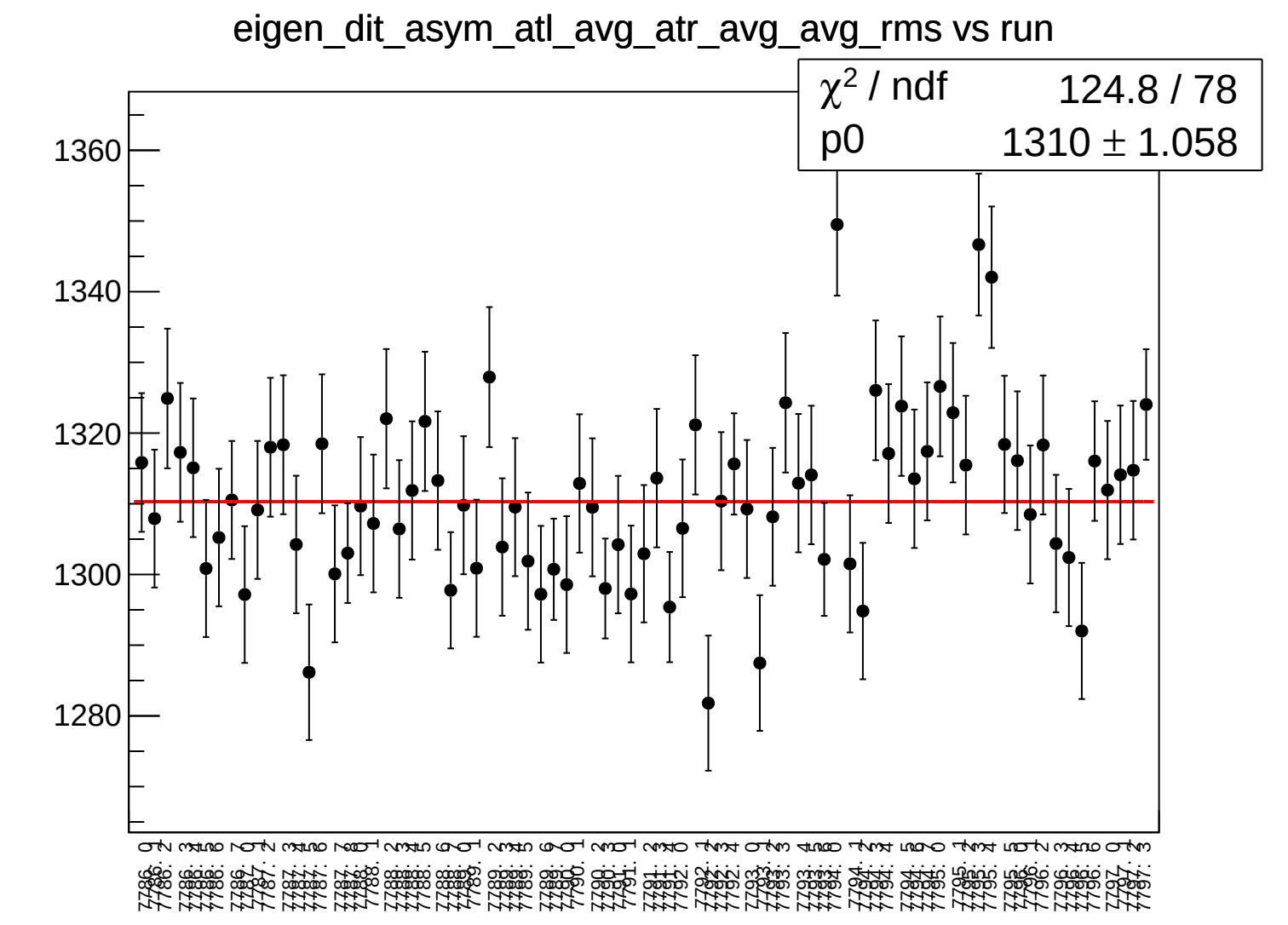

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 124.9 / 78
p0 1310 ± 1.058
1360
1340
1320
1300
1280

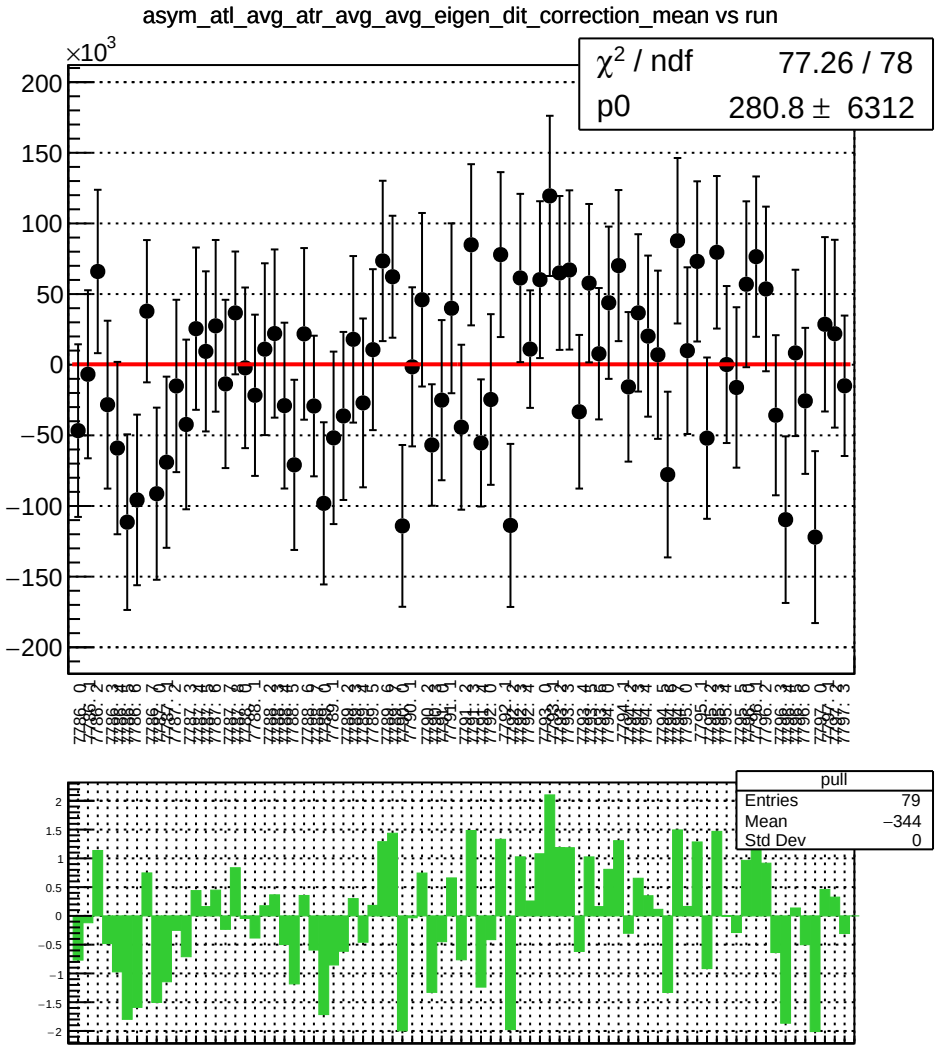

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.26 / 78
p0 280.8 ± 6312
pull
Entries 79
Mean −344
Std Dev 0

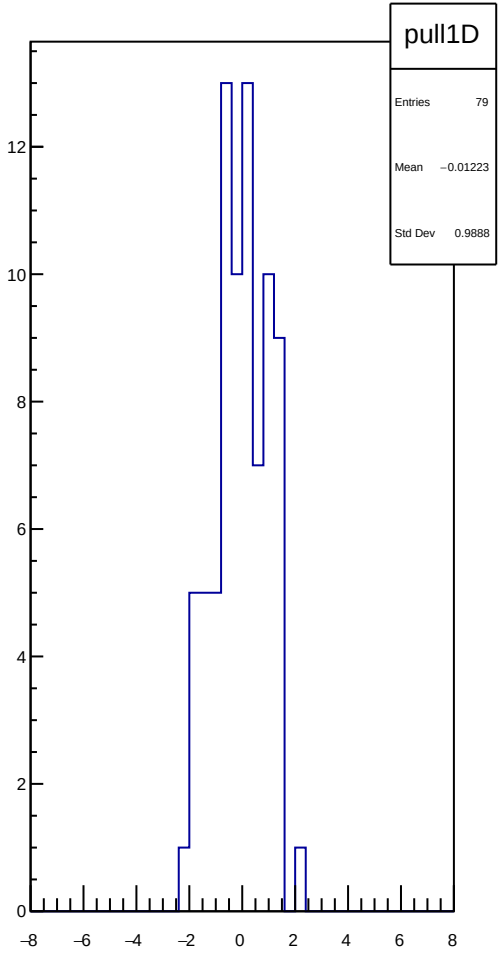

pull1D
Entries 79
Mean −0.01223
Std Dev 0.9888

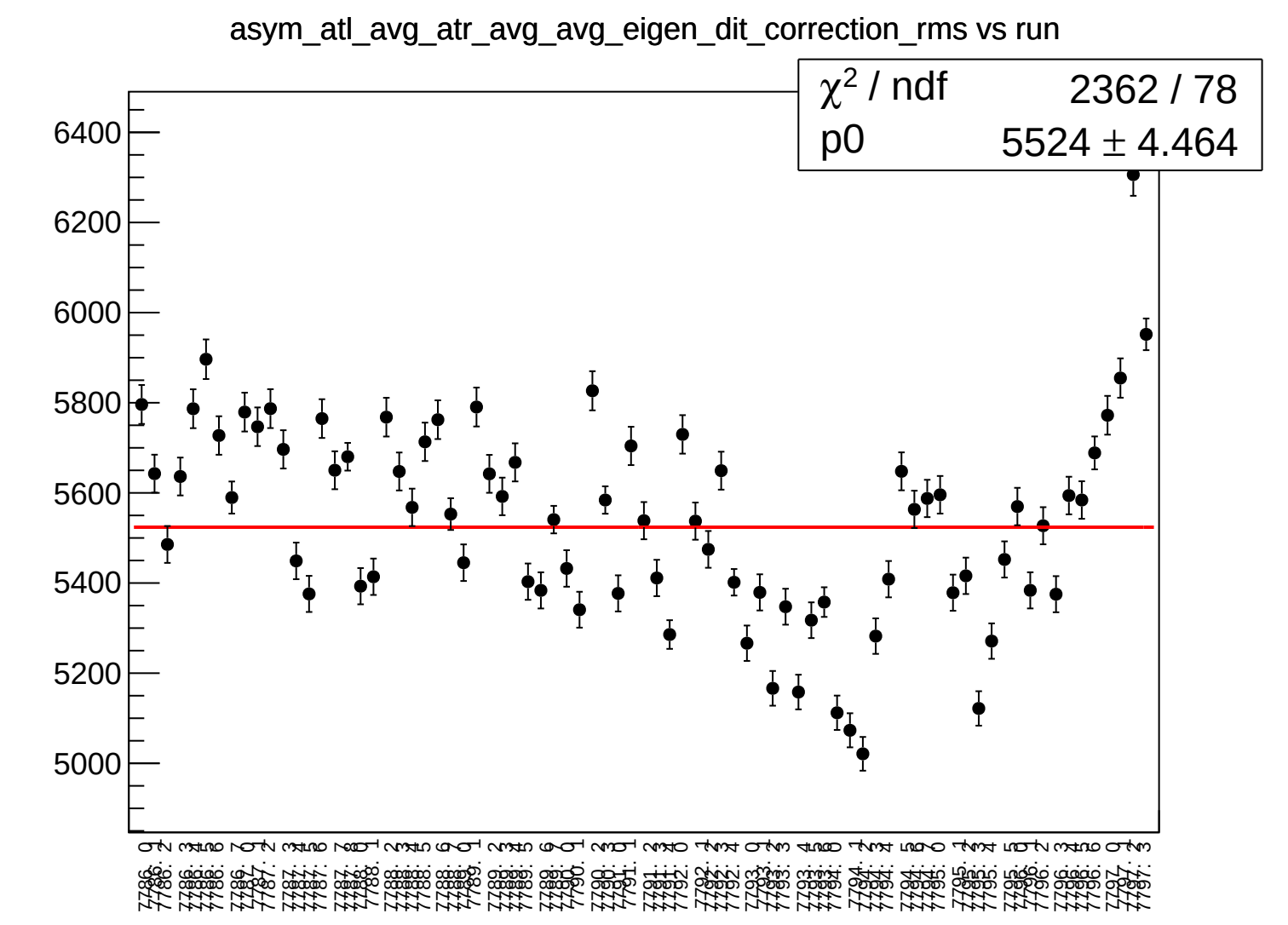

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 2362 / 78
p0 5524 ± 4.464
6400
6200
6000
5800
5600
5400
5200
5000

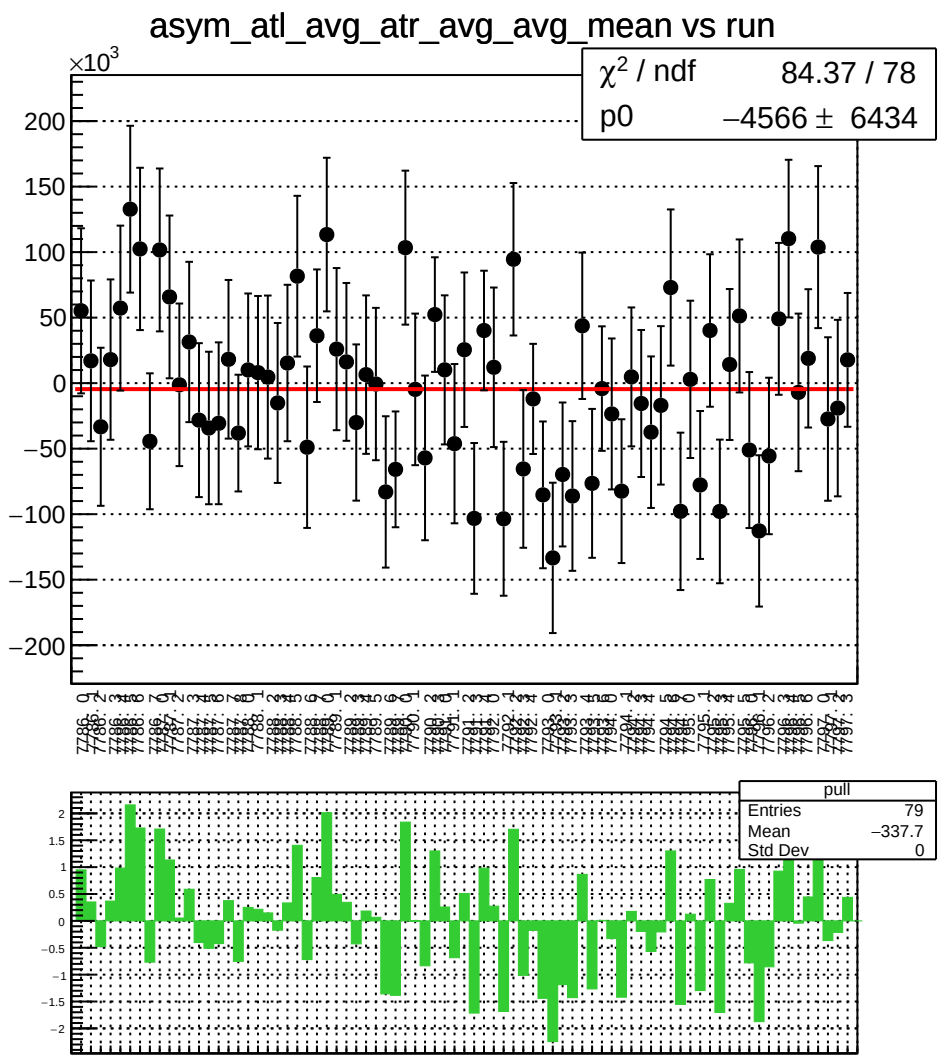

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 81.65 / 78
p0 −4052 ± 1496
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 572.8
Std Dev 0
pull1D
Entries 79
Mean −0.003097
Std Dev 1.017

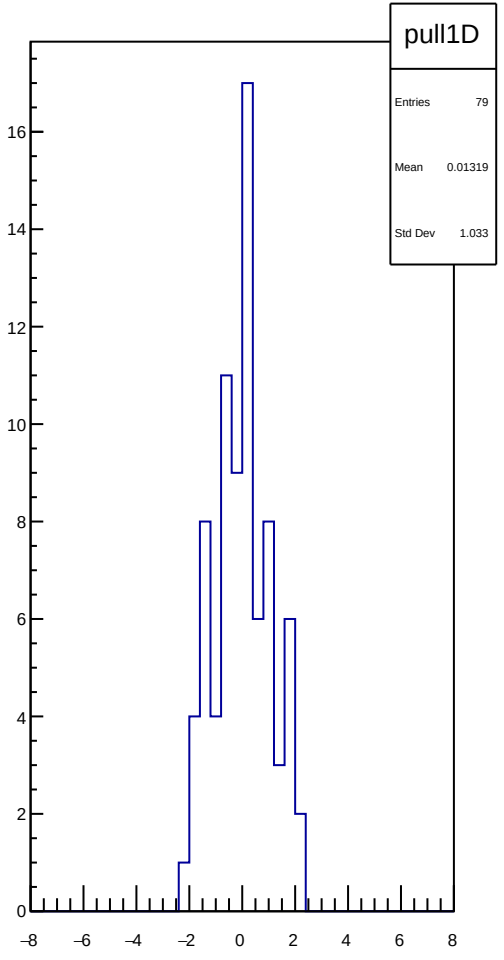

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 124.8 / 78
p0 1310 ± 1.058
1360
1340
1320
1300
1280

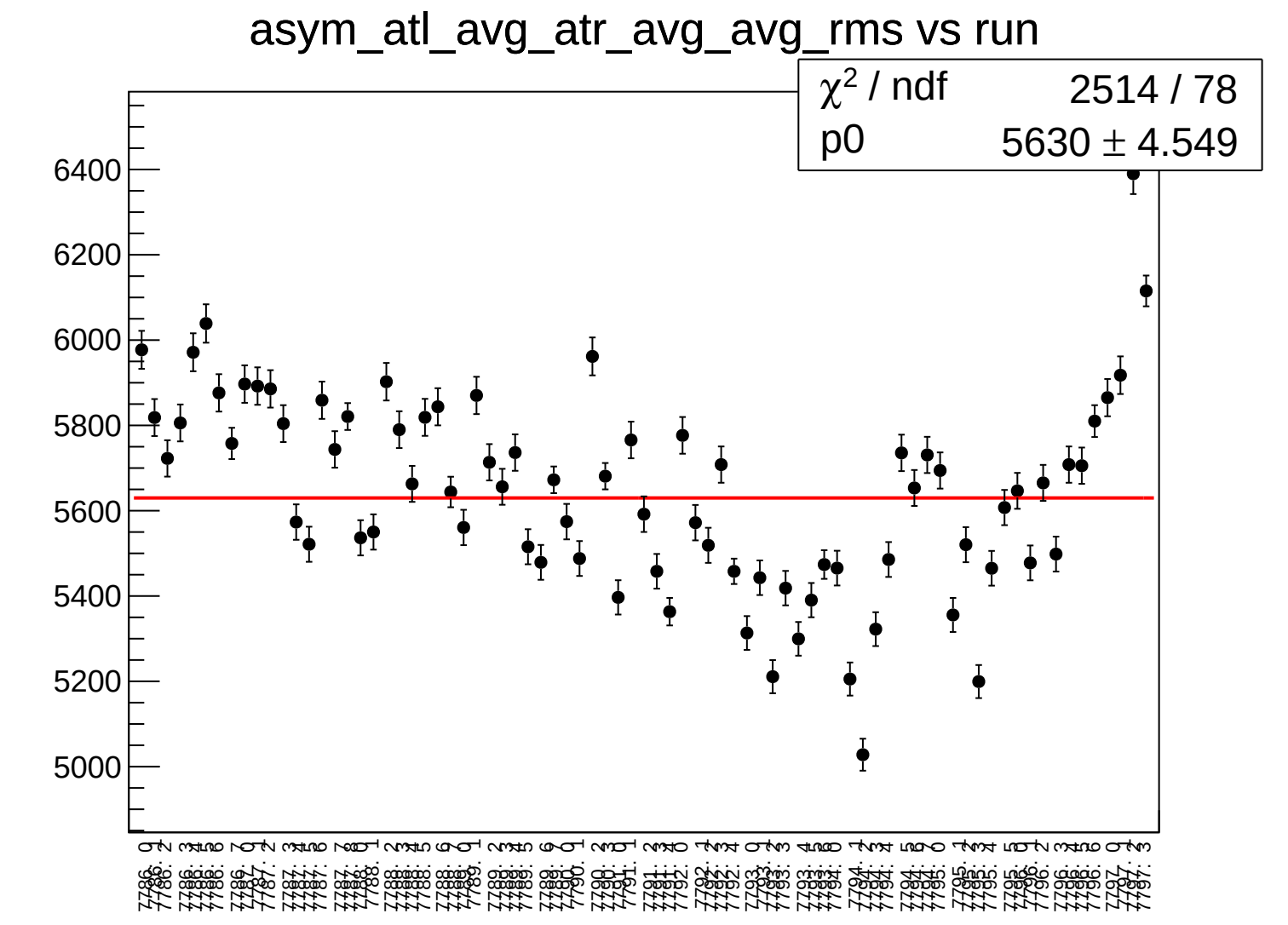

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.26 / 78
p0 280.8 ± 6312
pull
Entries 79
Mean −344
Std Dev 0

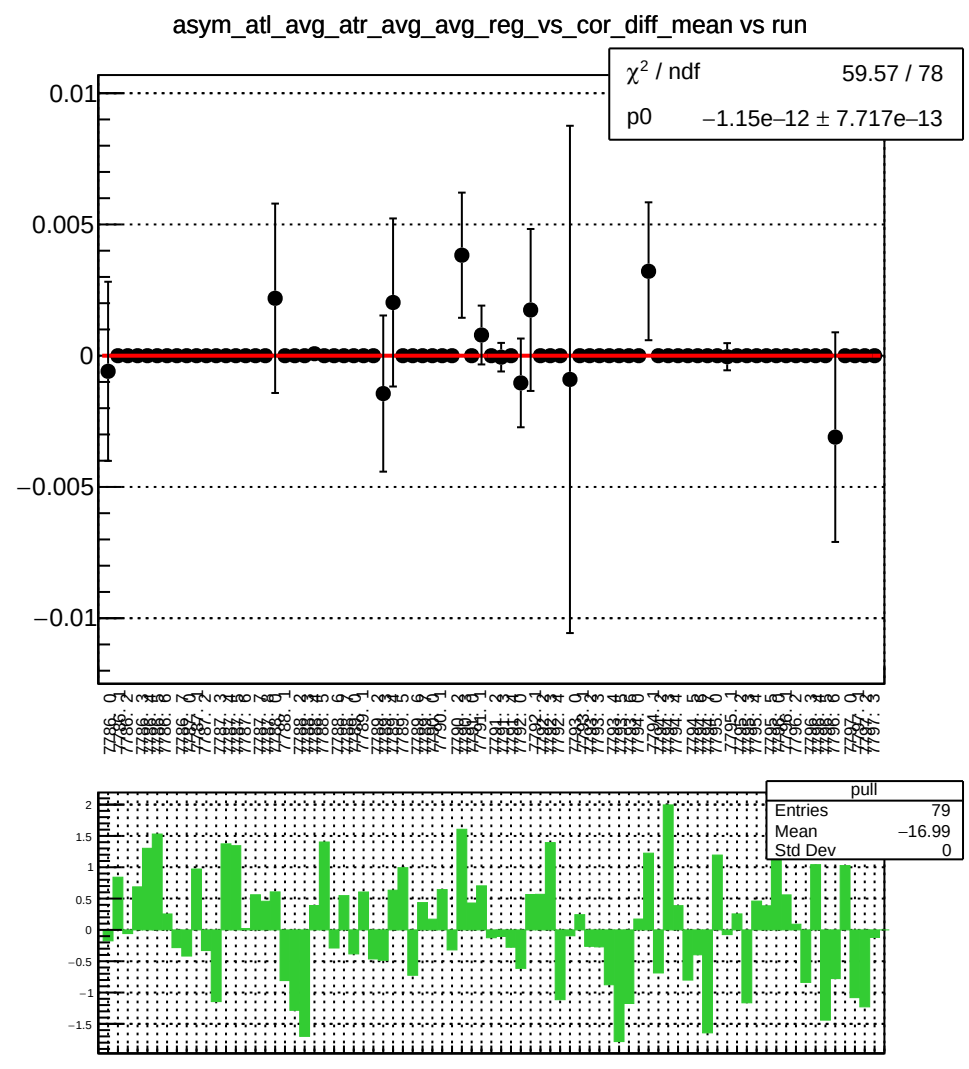

pull1D
Entries 79
Mean −0.01223
Std Dev 0.9888

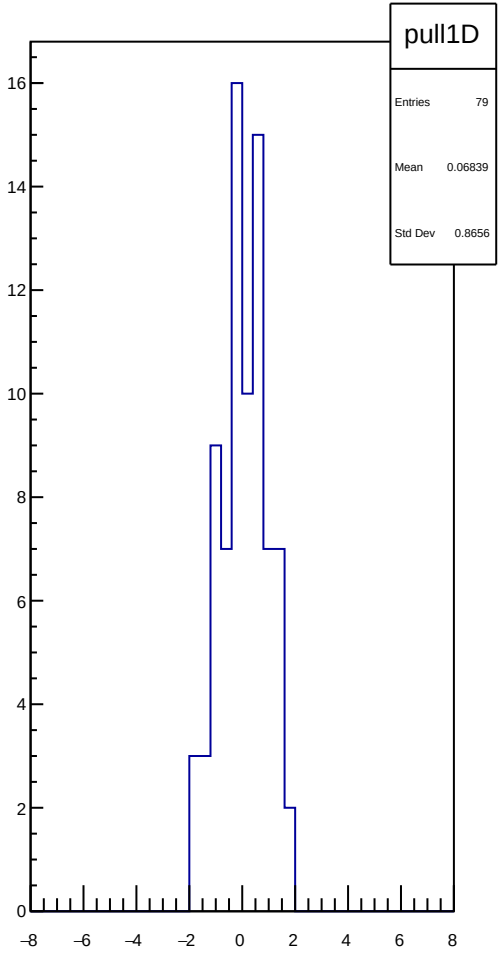

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2362 / 78
p0 5524 ± 4.464
6400
6200
6000
5800
5600
5400
5200
5000

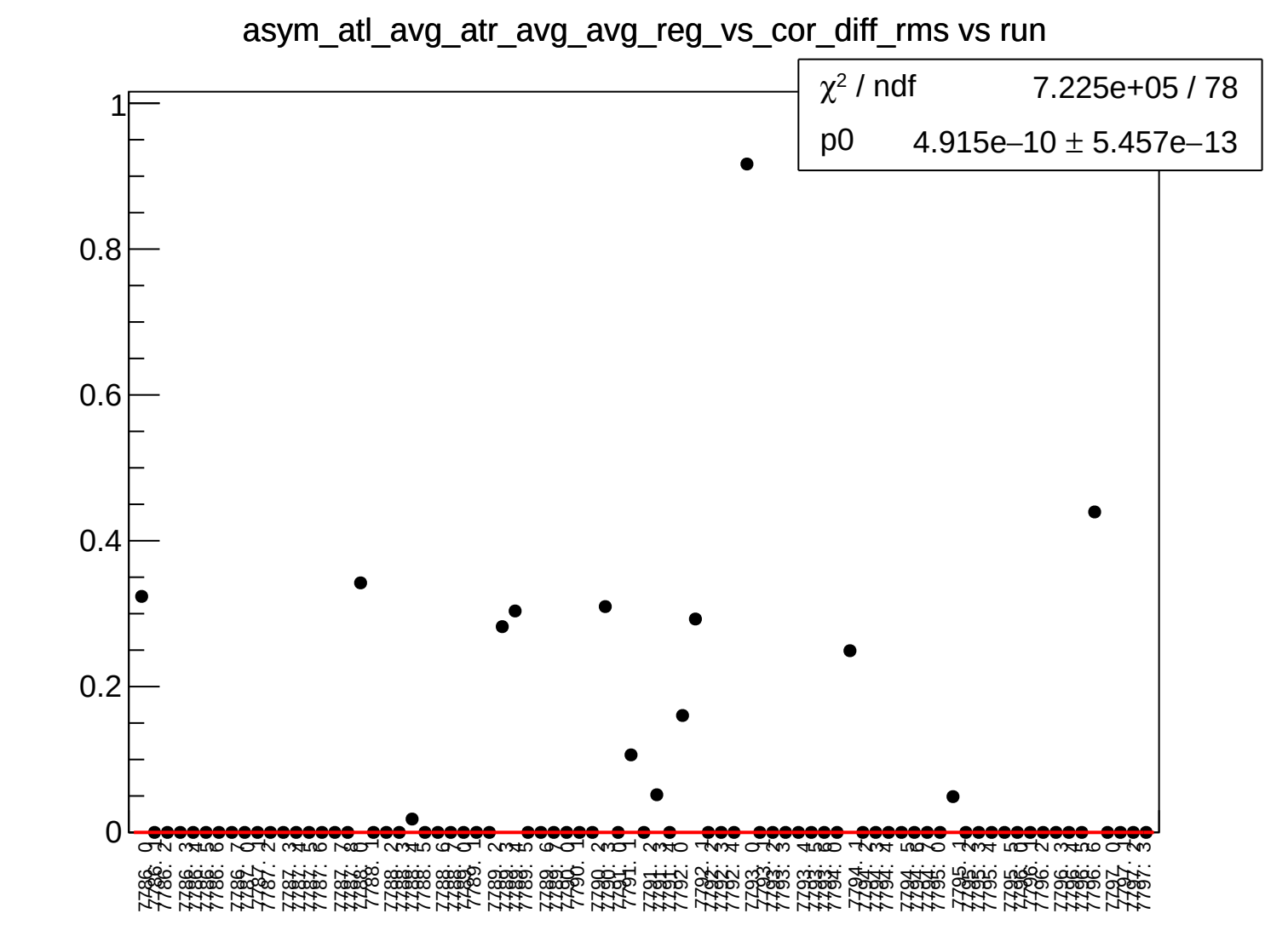

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 84.37 / 78
p0 −4566 ± 6434
pull
Entries 79
Mean −337.7
Std Dev 0

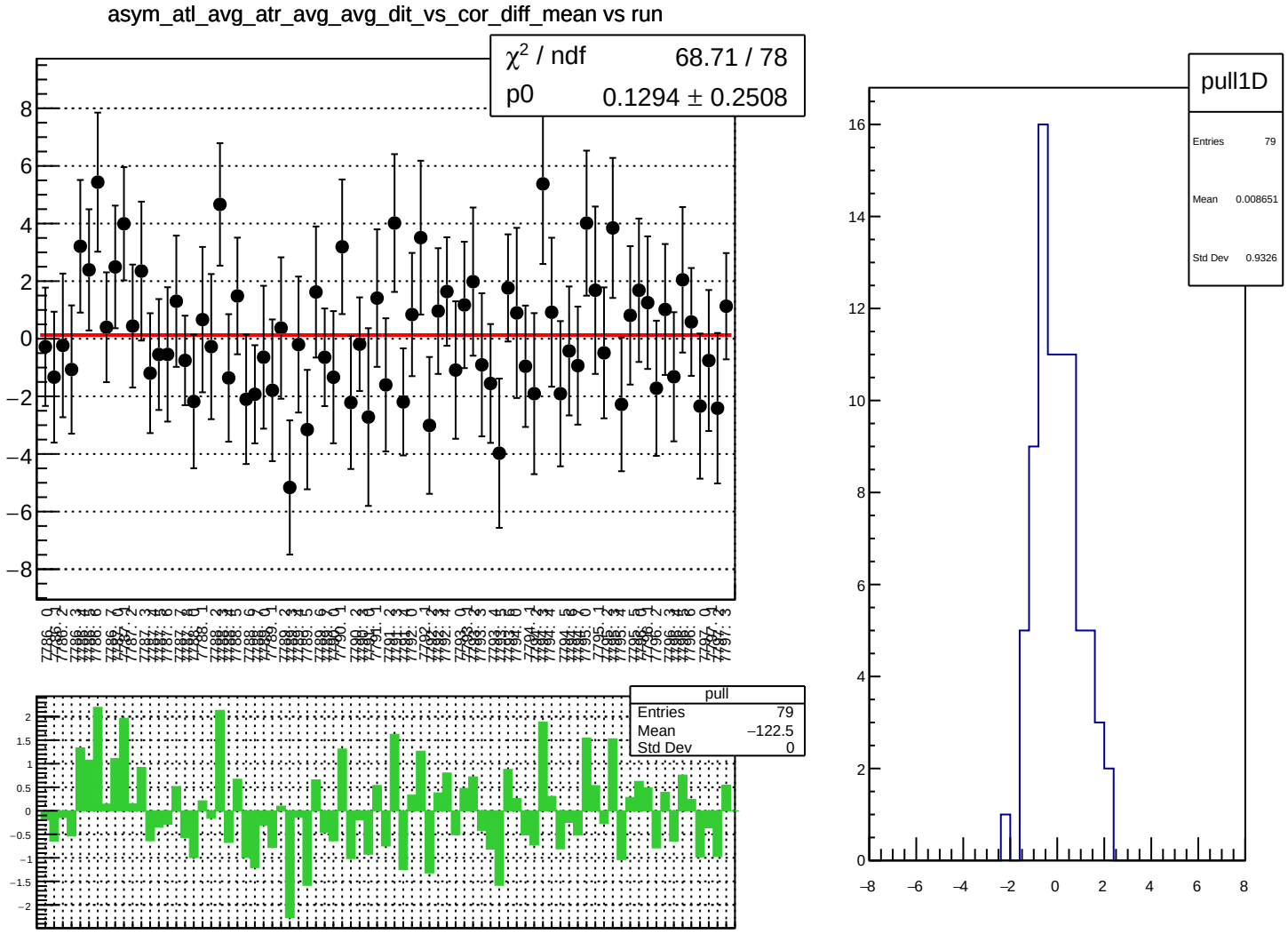

pull1D
Entries 79
Mean 0.01319
Std Dev 1.033

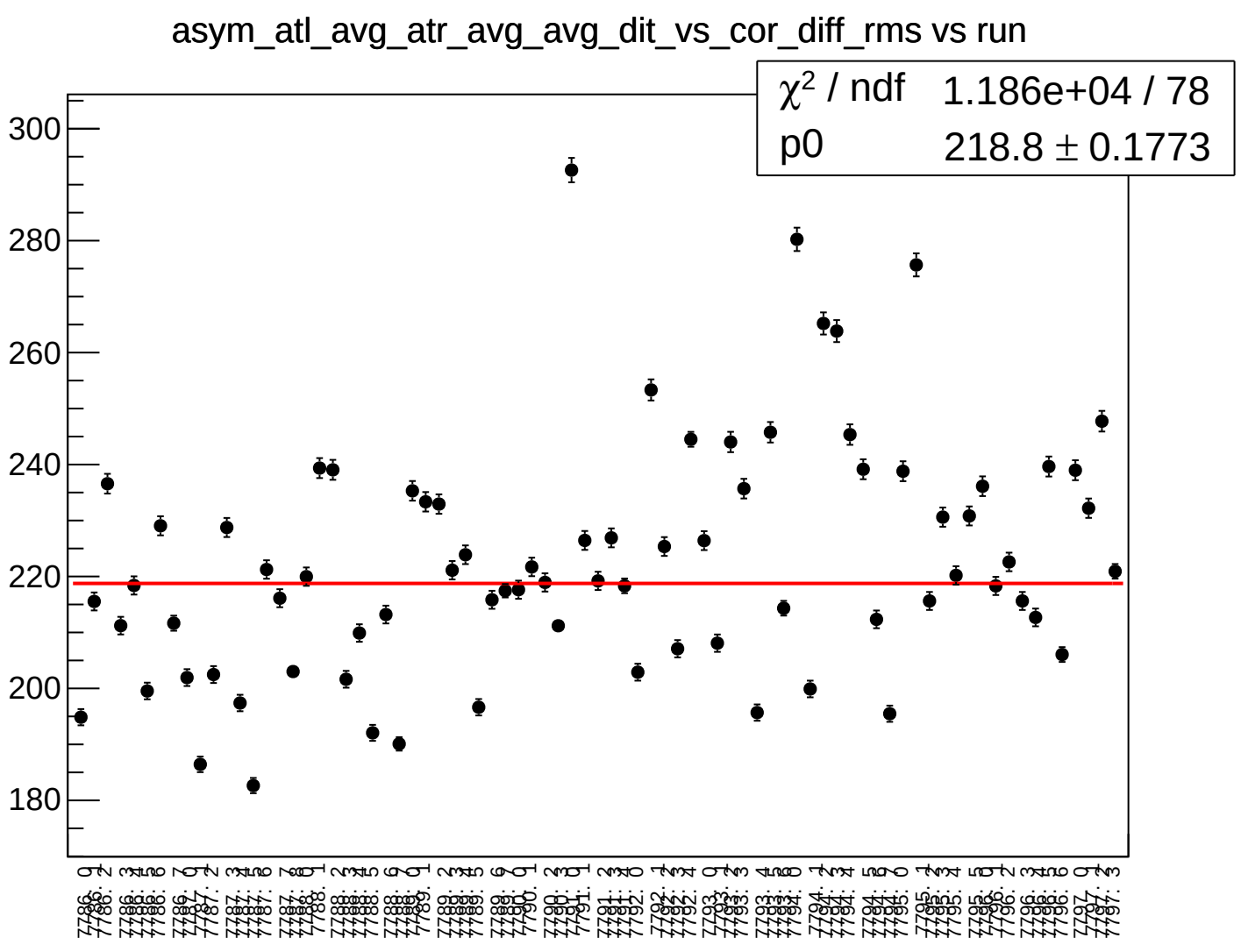

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2514 / 78
p0 5630 ± 4.549
6400
6200
6000
5800
5600
5400
5200
5000

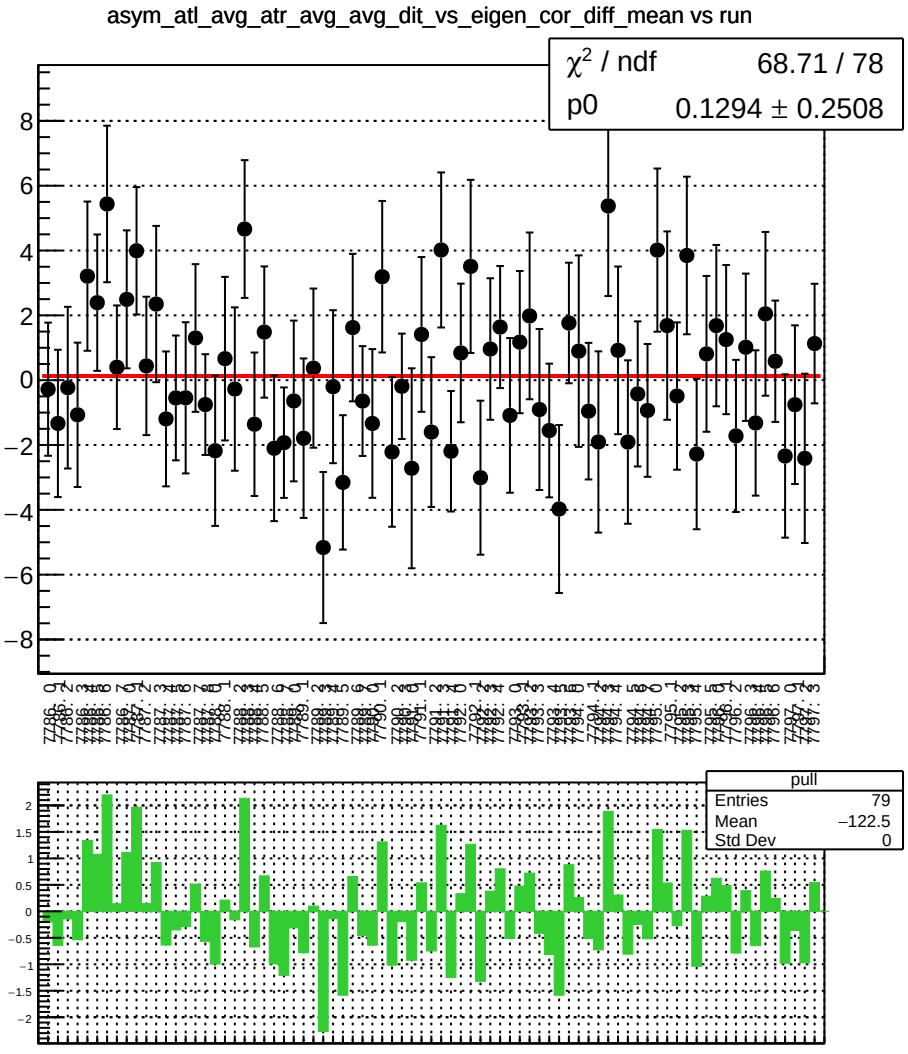

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 59.57 / 78
p0 −1.15e−12 ± 7.717e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 79
Mean −16.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

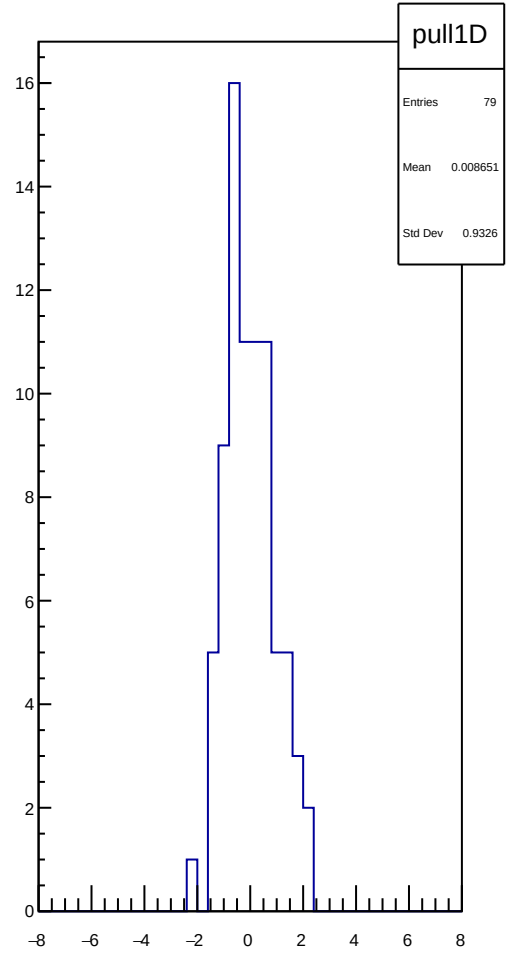

pull1D
Entries 79
Mean 0.06839
Std Dev 0.8656
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

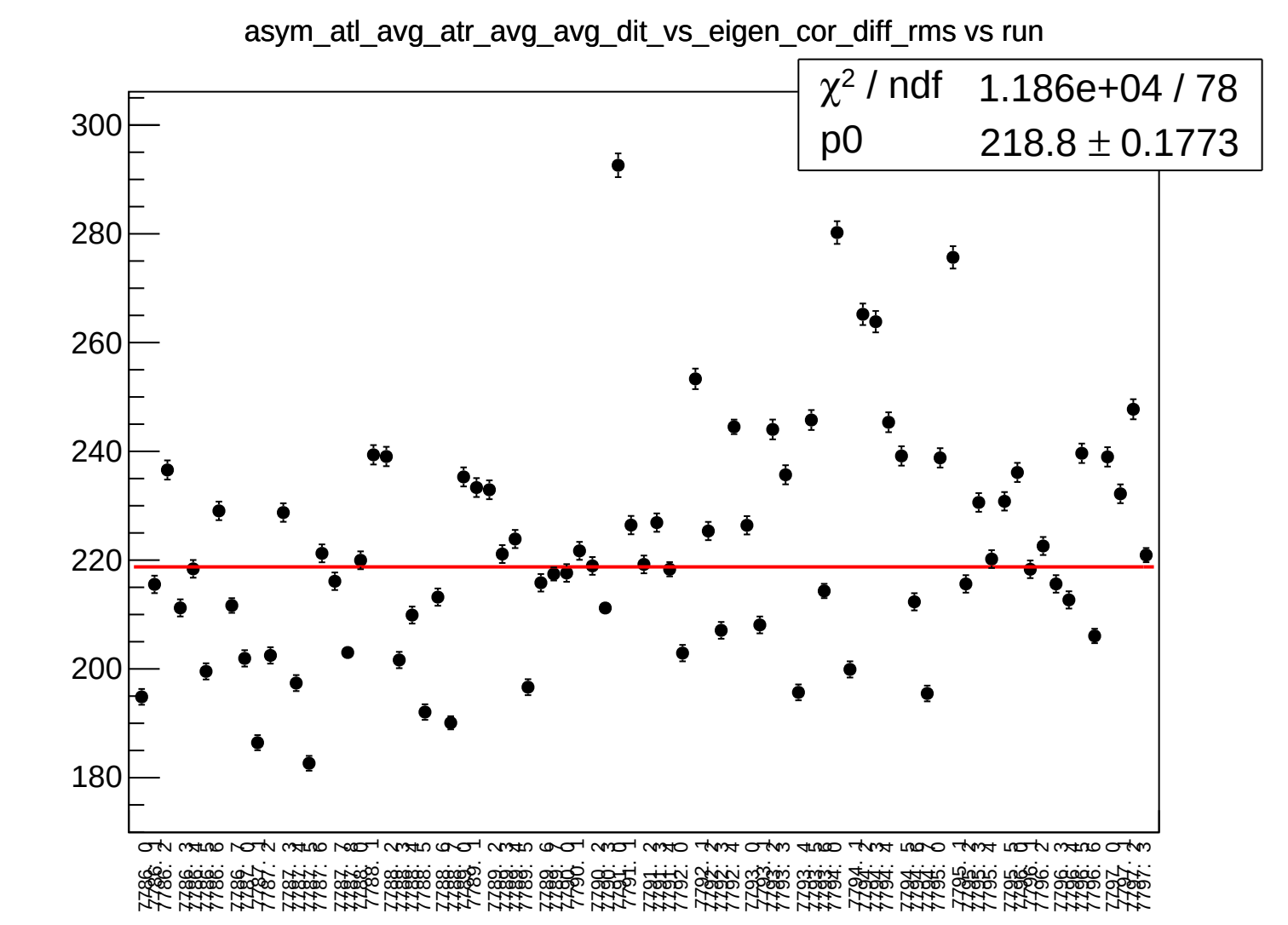

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.225e+05 / 78
p0 4.915e−10 ± 5.457e−13
1
0.8
0.6
0.4
0.2
0

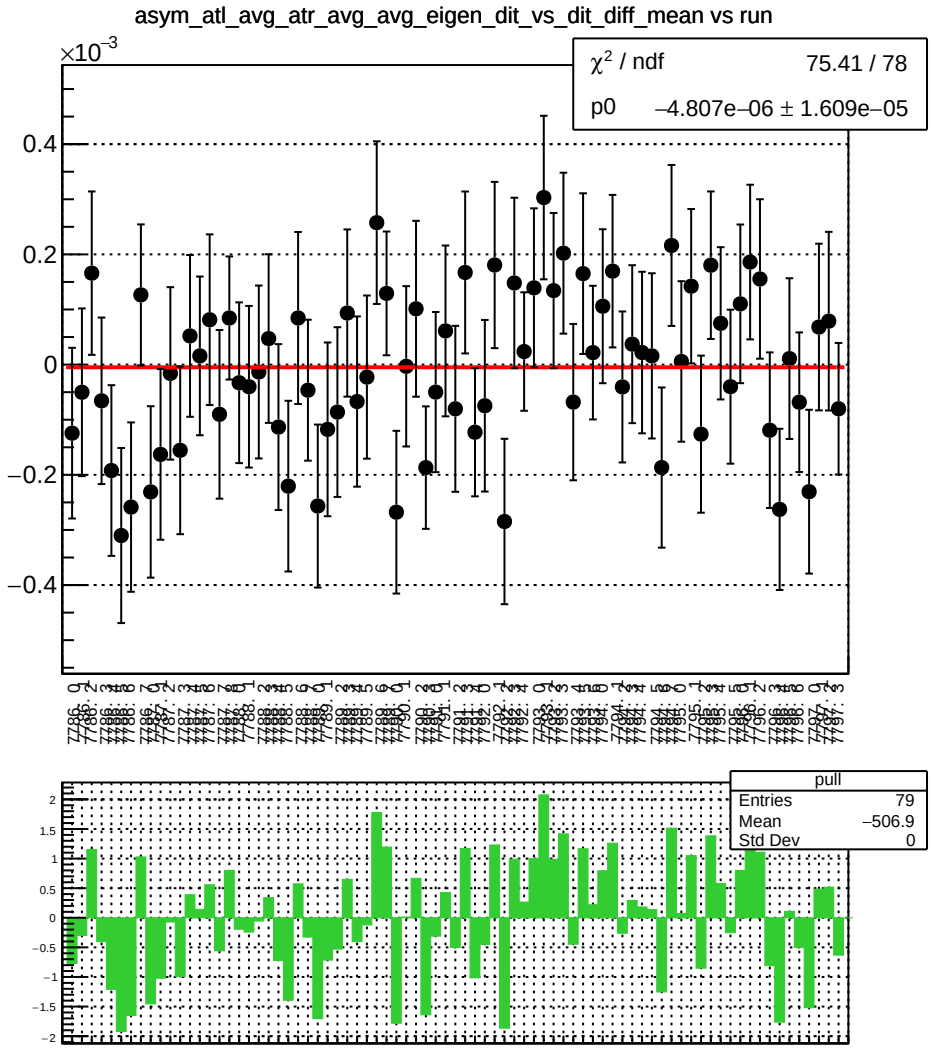

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.71 / 78
p0 0.1294 ± 0.2508
pull
Entries 79
Mean −122.5
Std Dev 0
pull1D
Entries 79
Mean 0.008651
Std Dev 0.9326

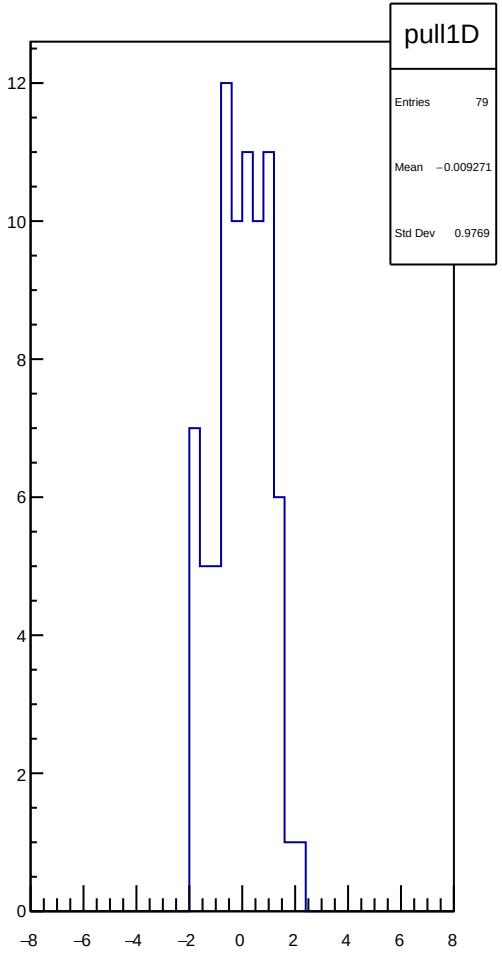

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 78
p0 218.8 ± 0.1773
300
280
260
240
220
200
180

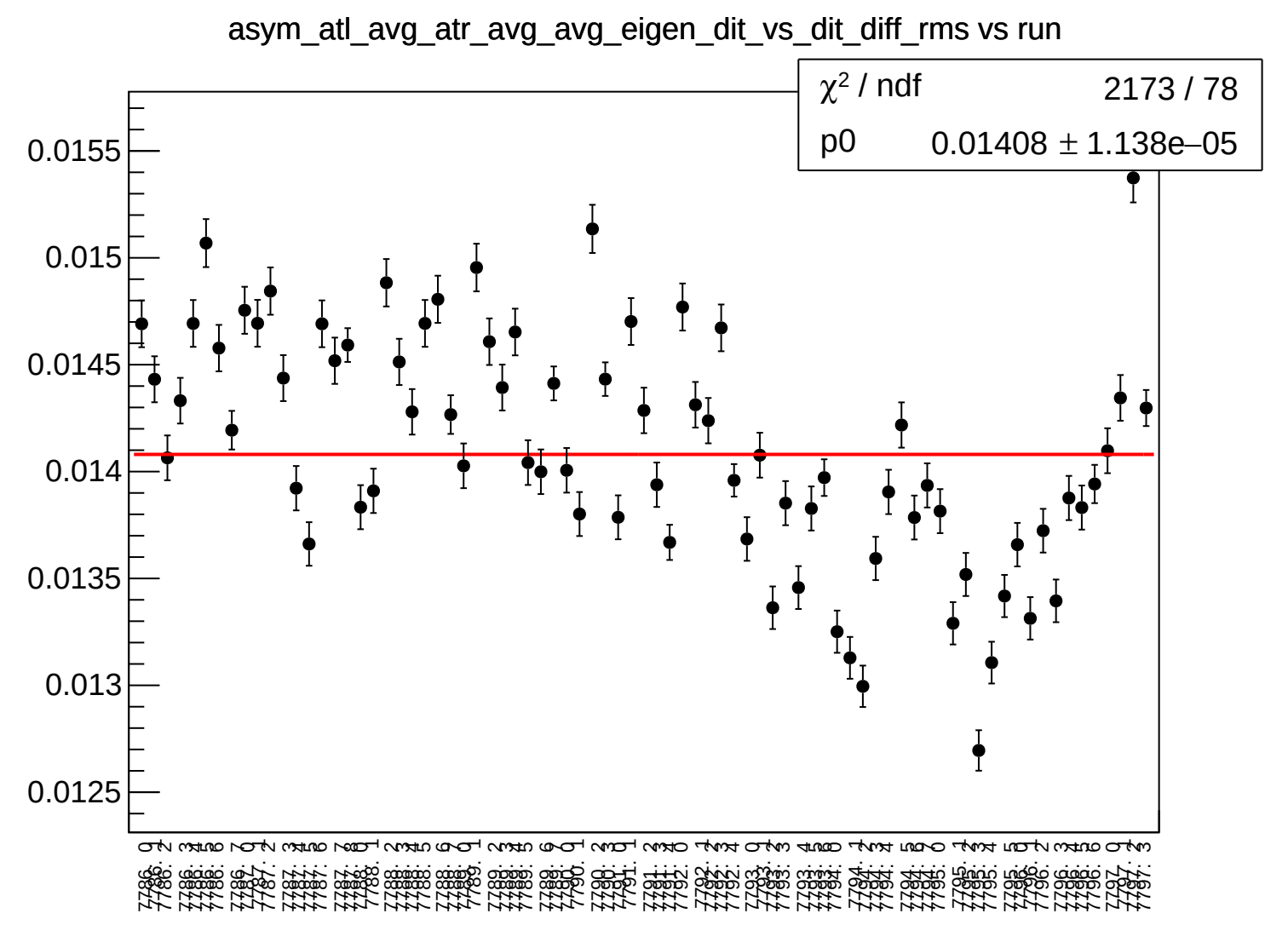

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.71 / 78
p0 0.1294 ± 0.2508
pull
Entries 79
Mean −122.5
Std Dev 0

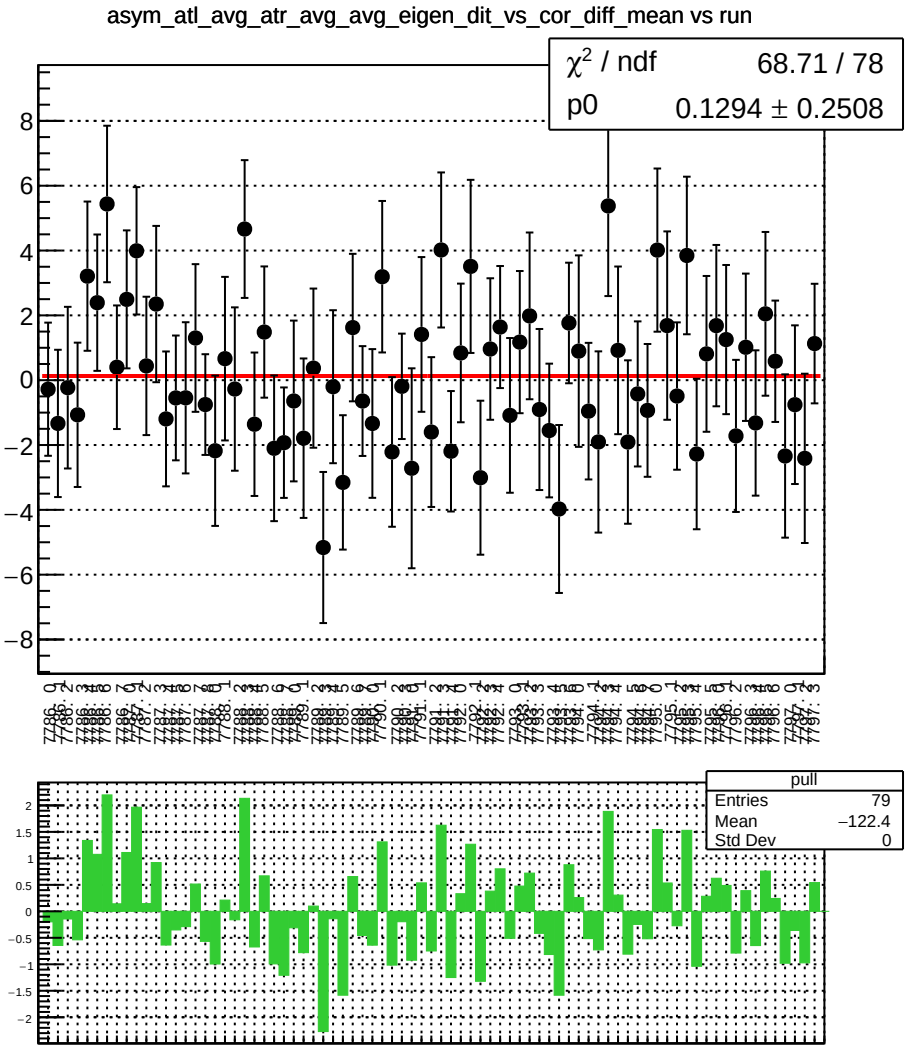

pull1D
Entries 79
Mean 0.008651
Std Dev 0.9326

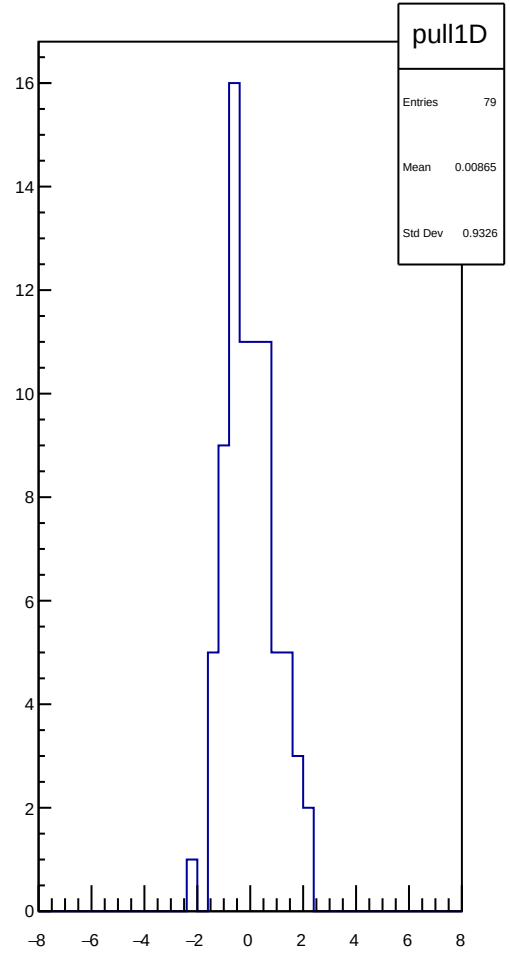

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 78
p0 218.8 ± 0.1773
300
280
260
240
220
200
180

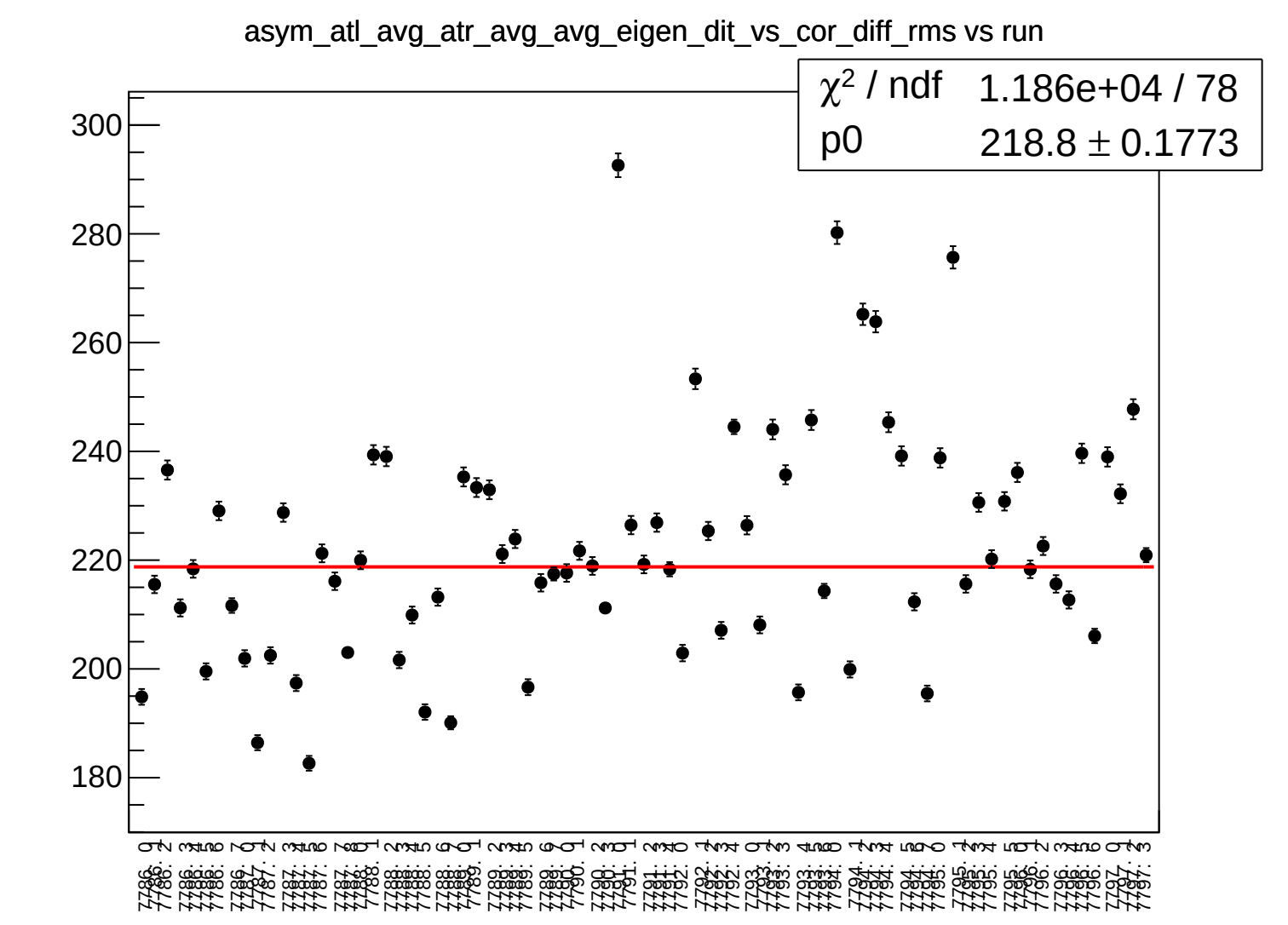

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.41 / 78
p0 −4.807e−06 ± 1.609e−05
pull
Entries 79
Mean −506.9
Std Dev 0

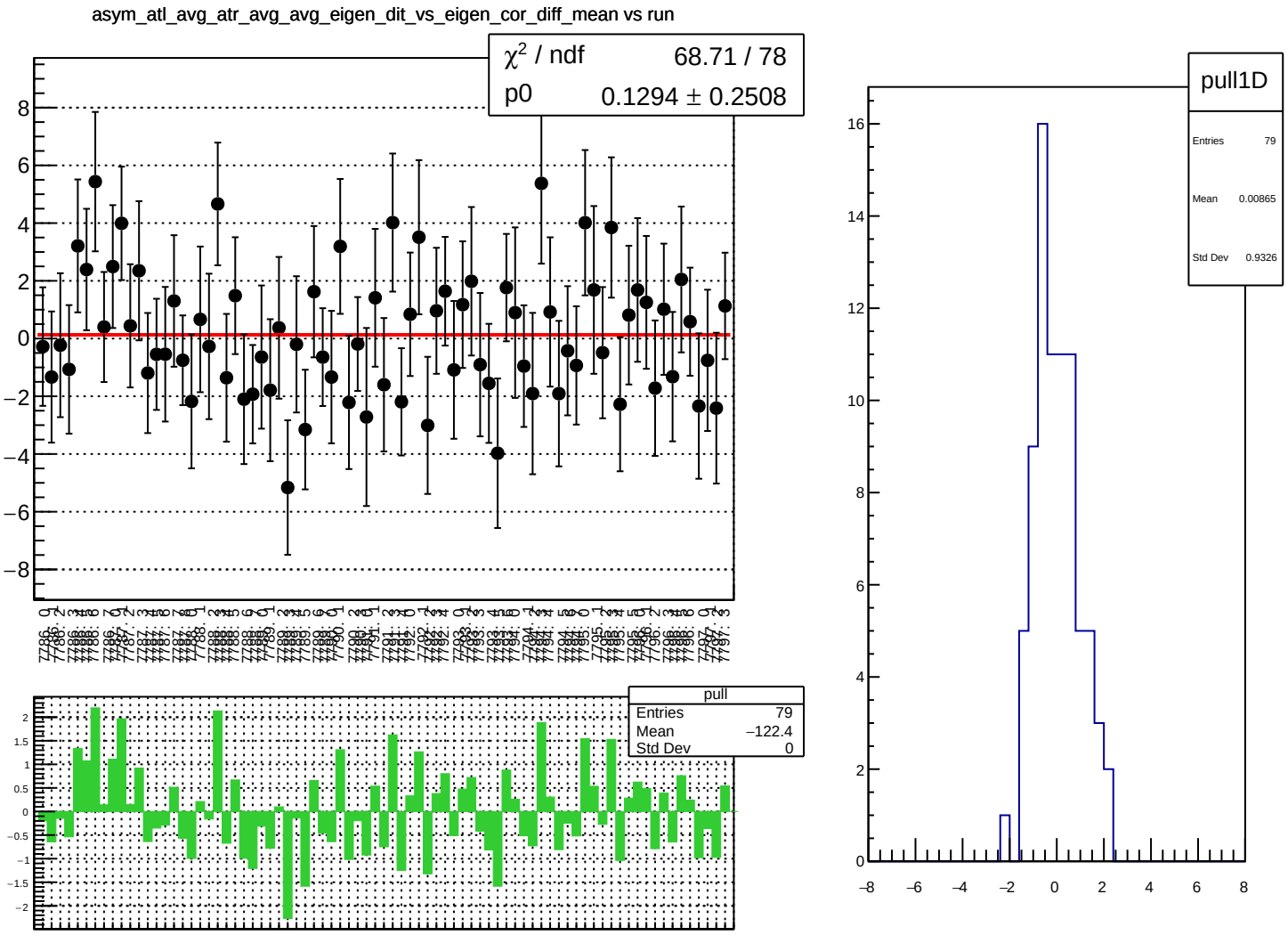

pull1D
Entries 79
Mean −0.009271
Std Dev 0.9769

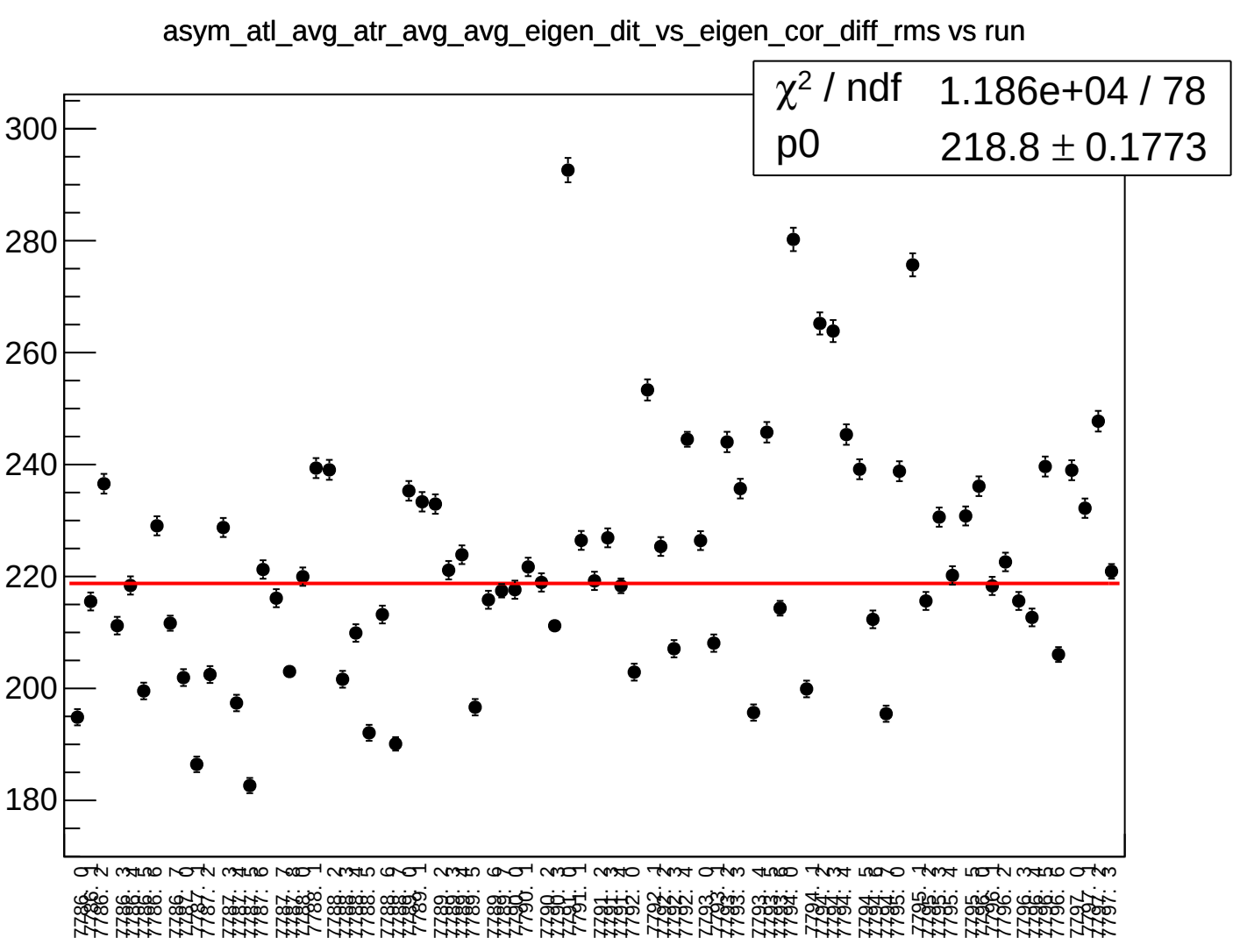

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2173 / 78
p0 0.01408 ± 1.138e−05
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125

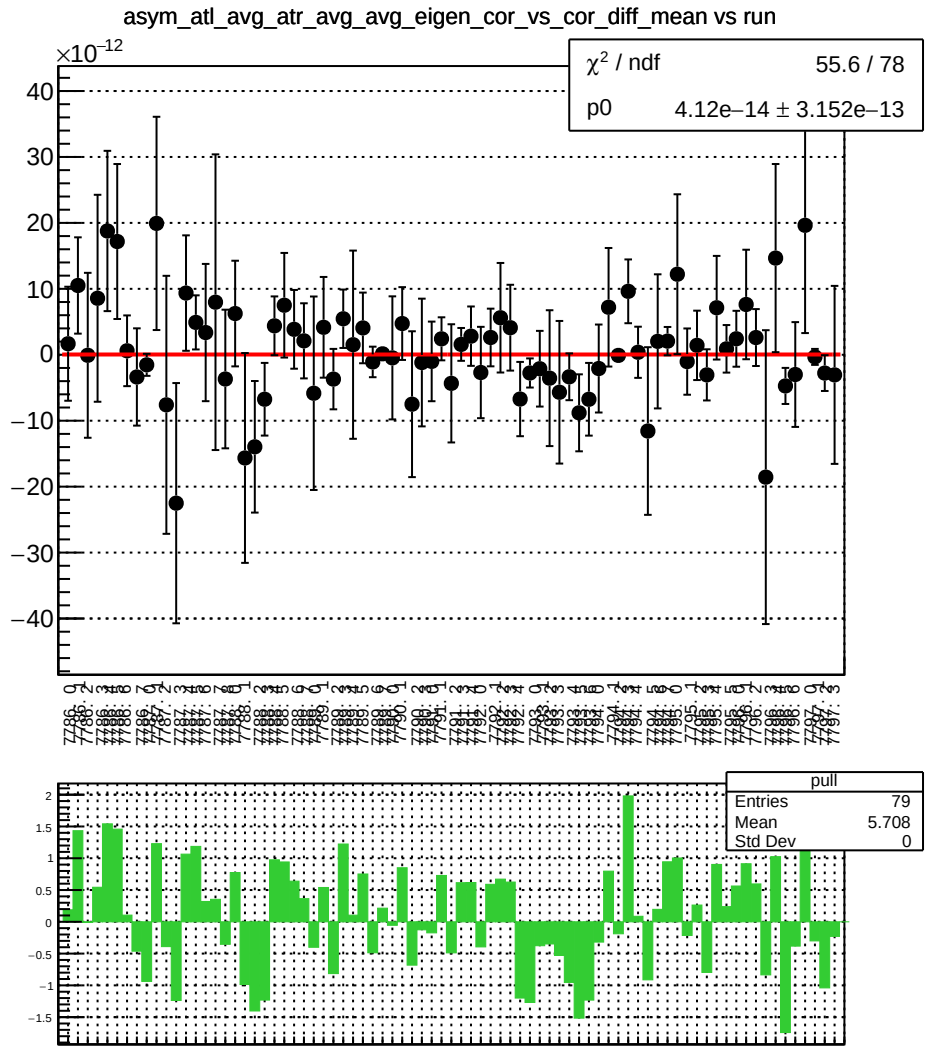

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.71 / 78
p0 0.1294 ± 0.2508
pull
Entries 79
Mean −122.4
Std Dev 0

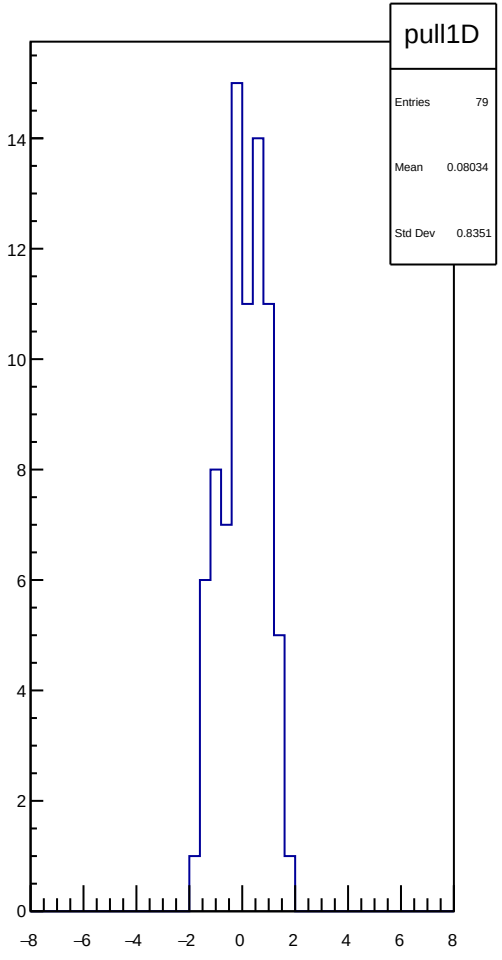

pull1D
Entries 79
Mean 0.00865
Std Dev 0.9326

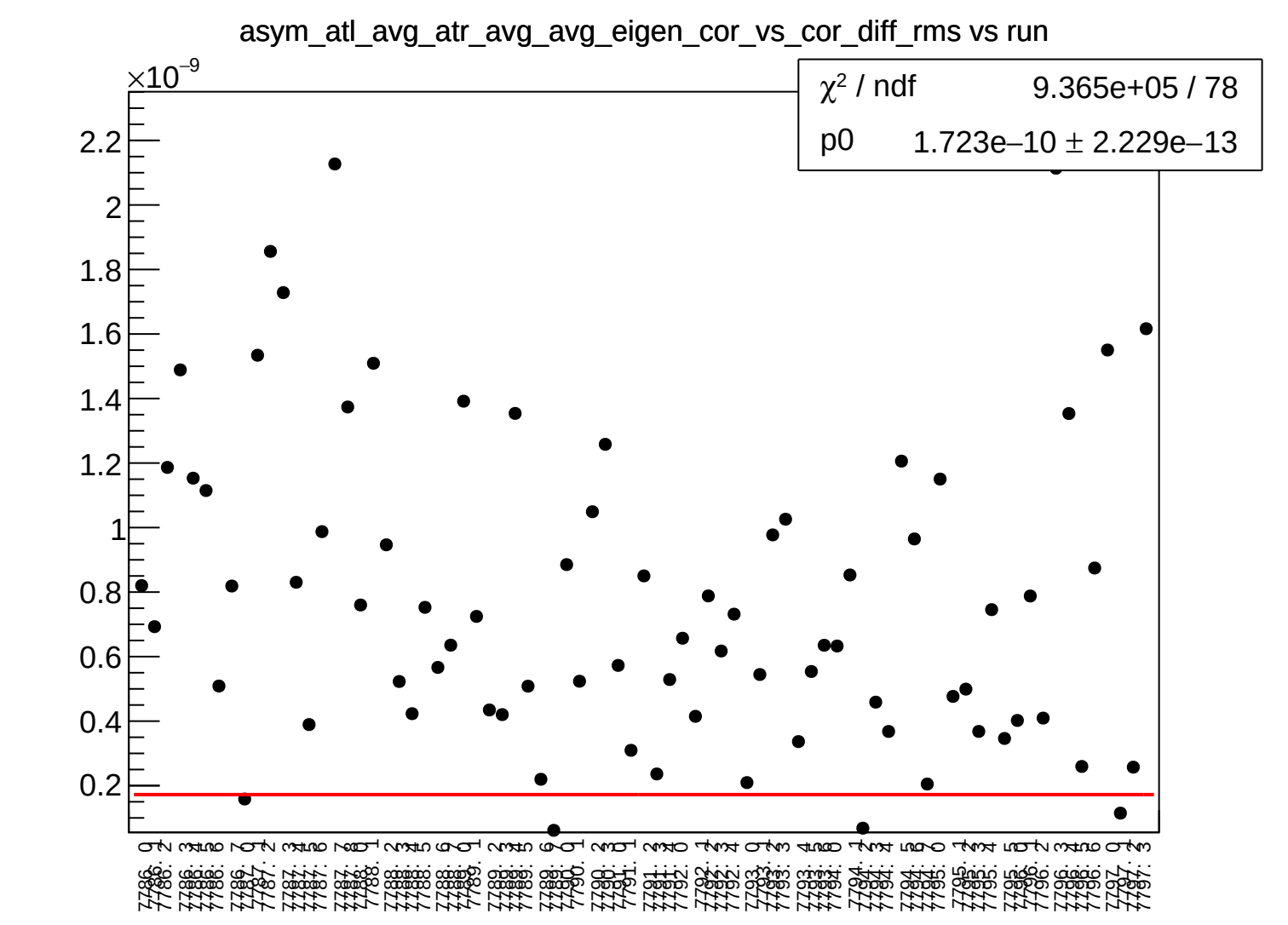

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 78
p0 218.8 ± 0.1773
300
280
260
240
220
200
180

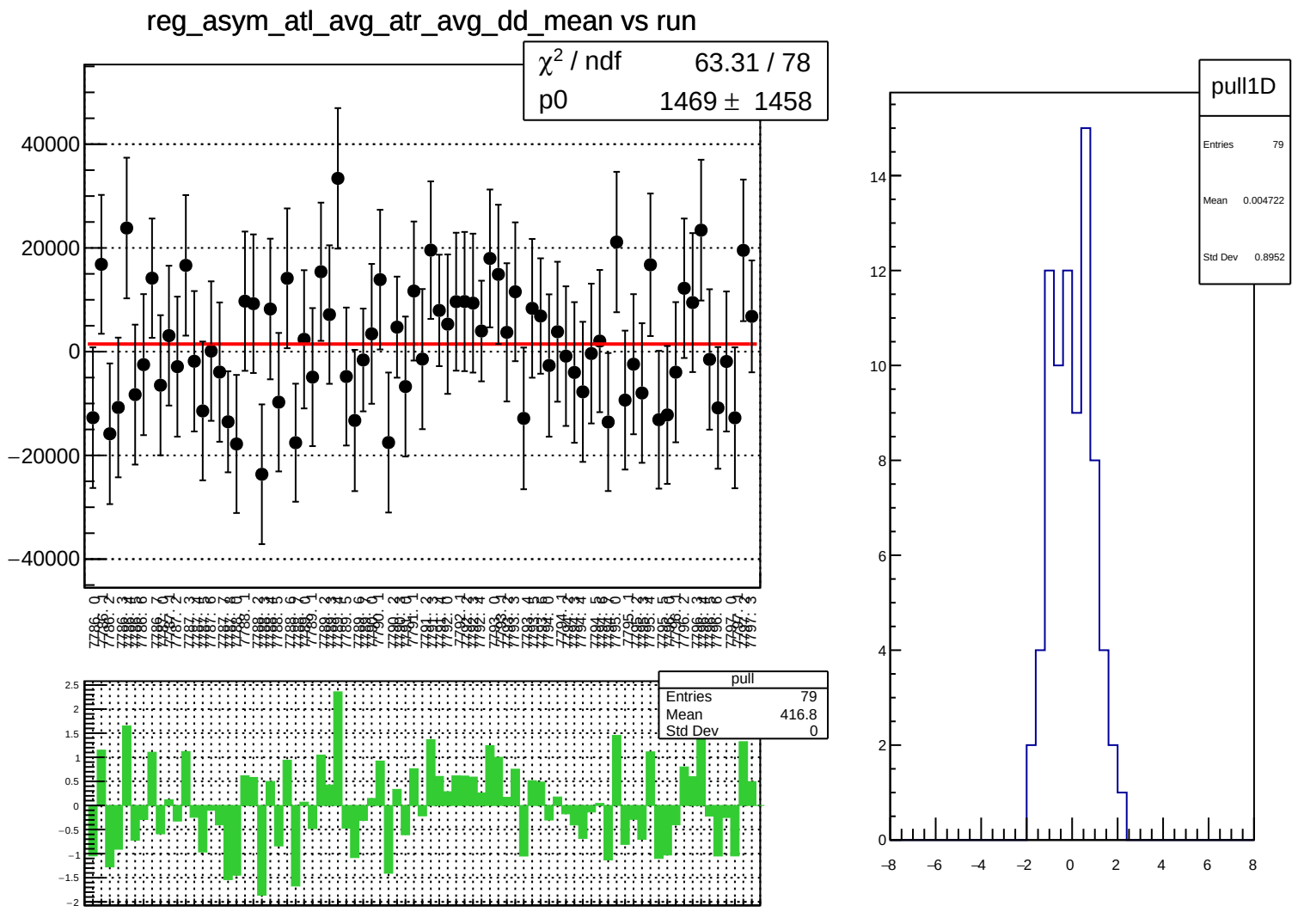

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.71 / 78
p0 0.1294 ± 0.2508
pull
Entries 79
Mean −122.4
Std Dev 0
pull1D
Entries 79
Mean 0.00865
Std Dev 0.9326

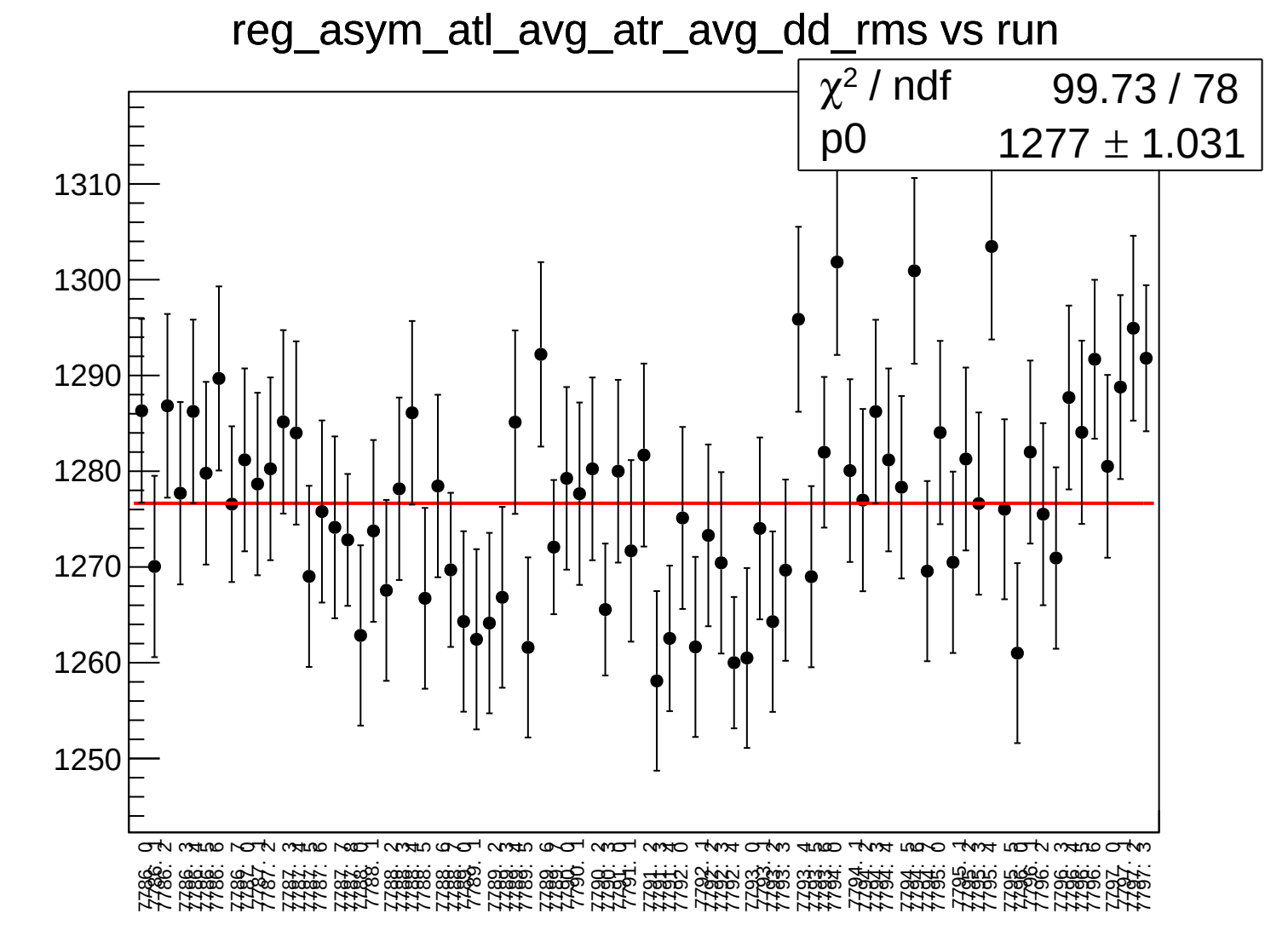

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 78
p0 218.8 ± 0.1773
300
280
260
240
220
200
180


asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 55.6 / 78
p0 4.12e−14 ± 3.152e−13
pull
Entries 79
Mean 5.708
Std Dev 0

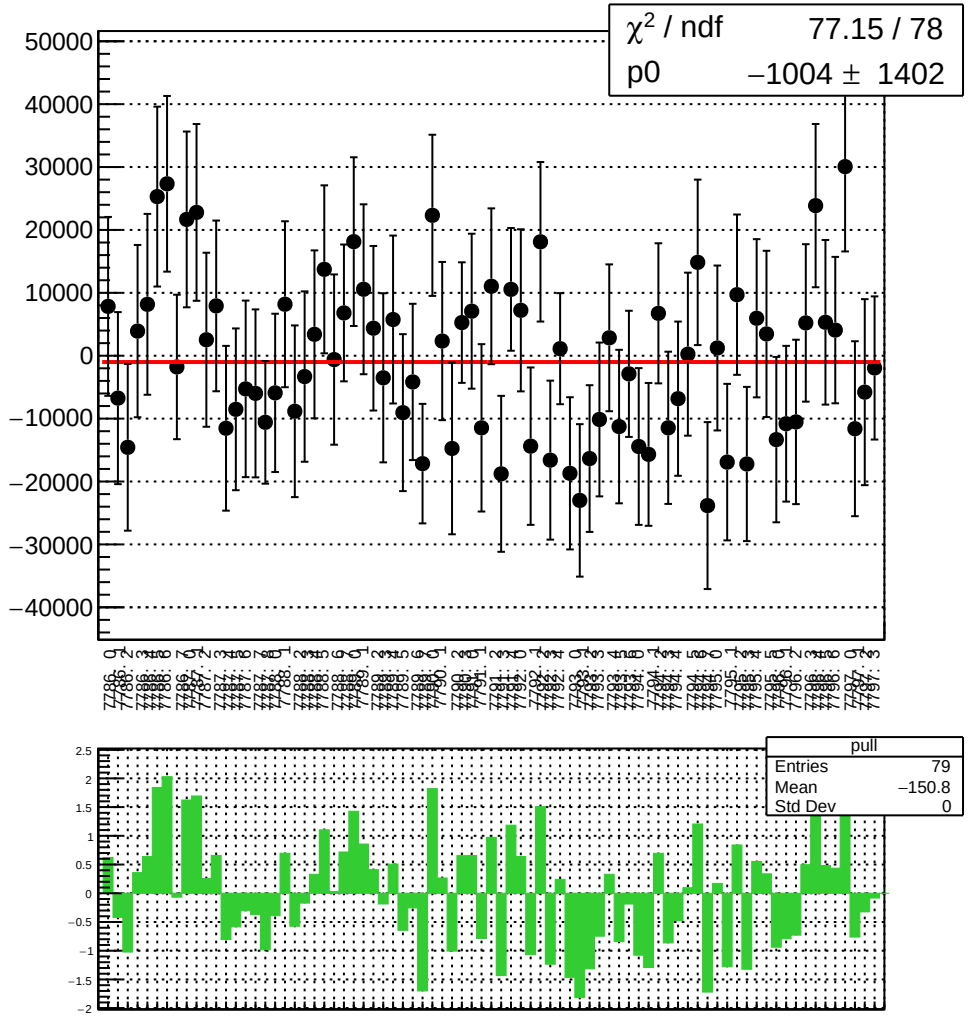

pull1D
Entries 79
Mean 0.08034
Std Dev 0.8351

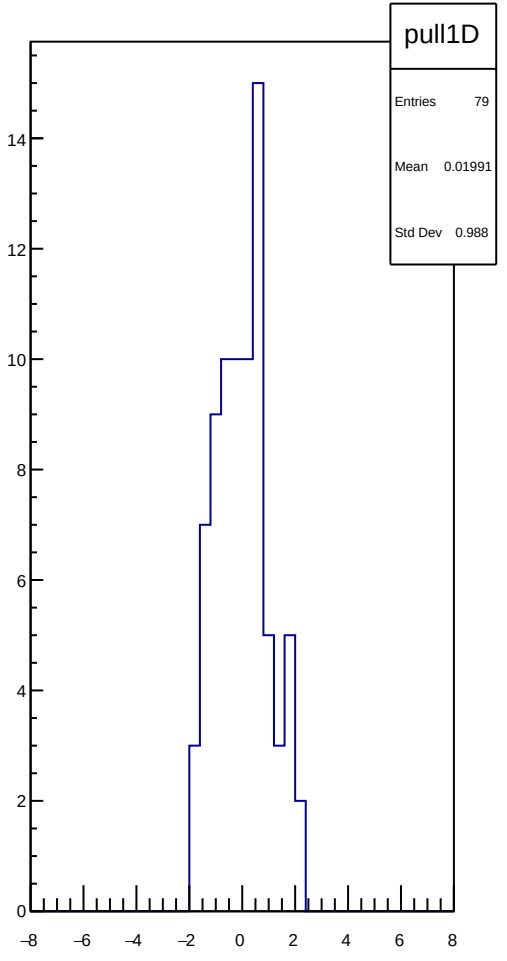

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.365e+05 / 78
p0 1.723e−10 ± 2.229e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

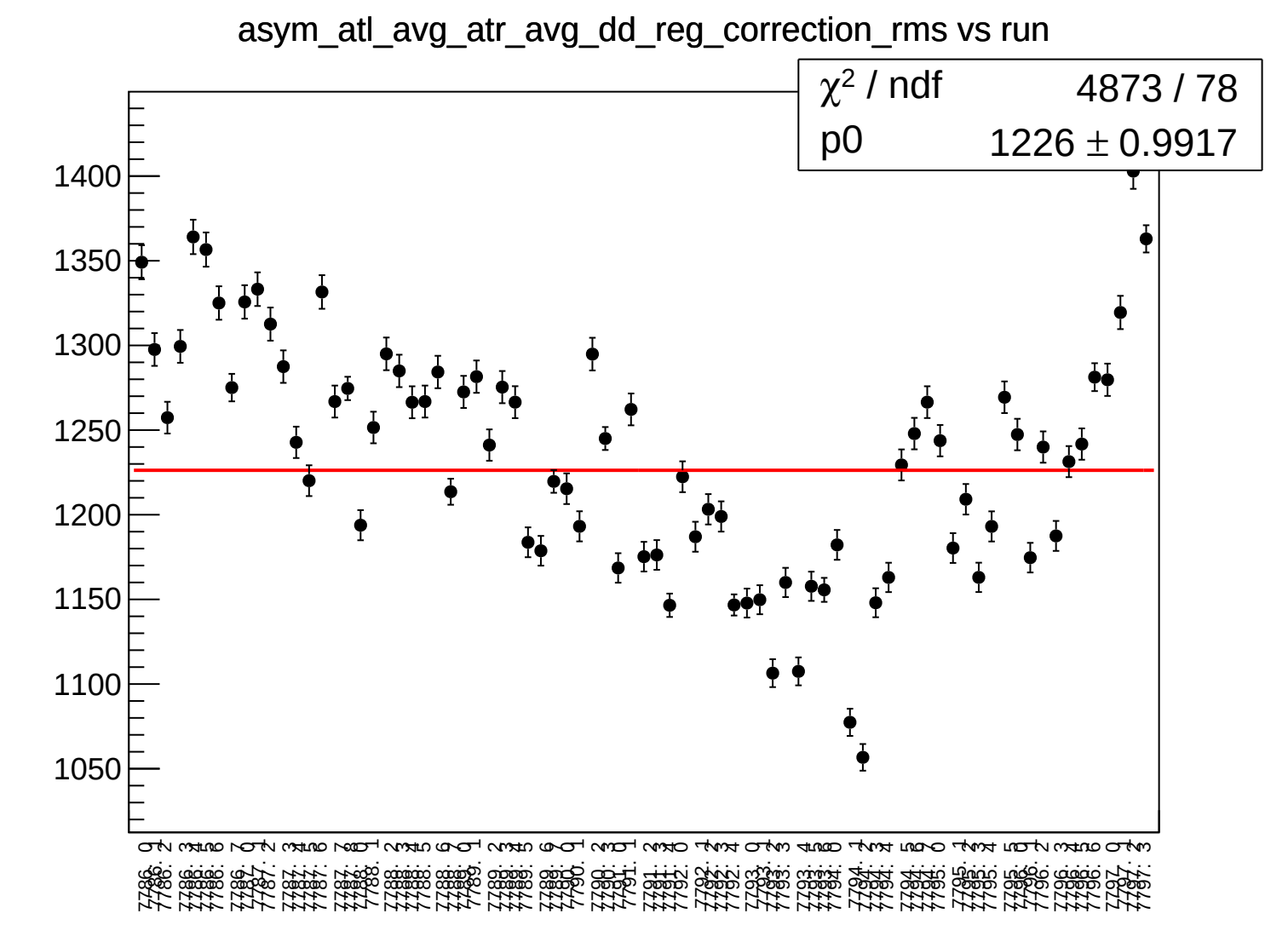

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 63.31 / 78
p0 1469 ± 1458
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 416.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 79
Mean 0.004722
Std Dev 0.8952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

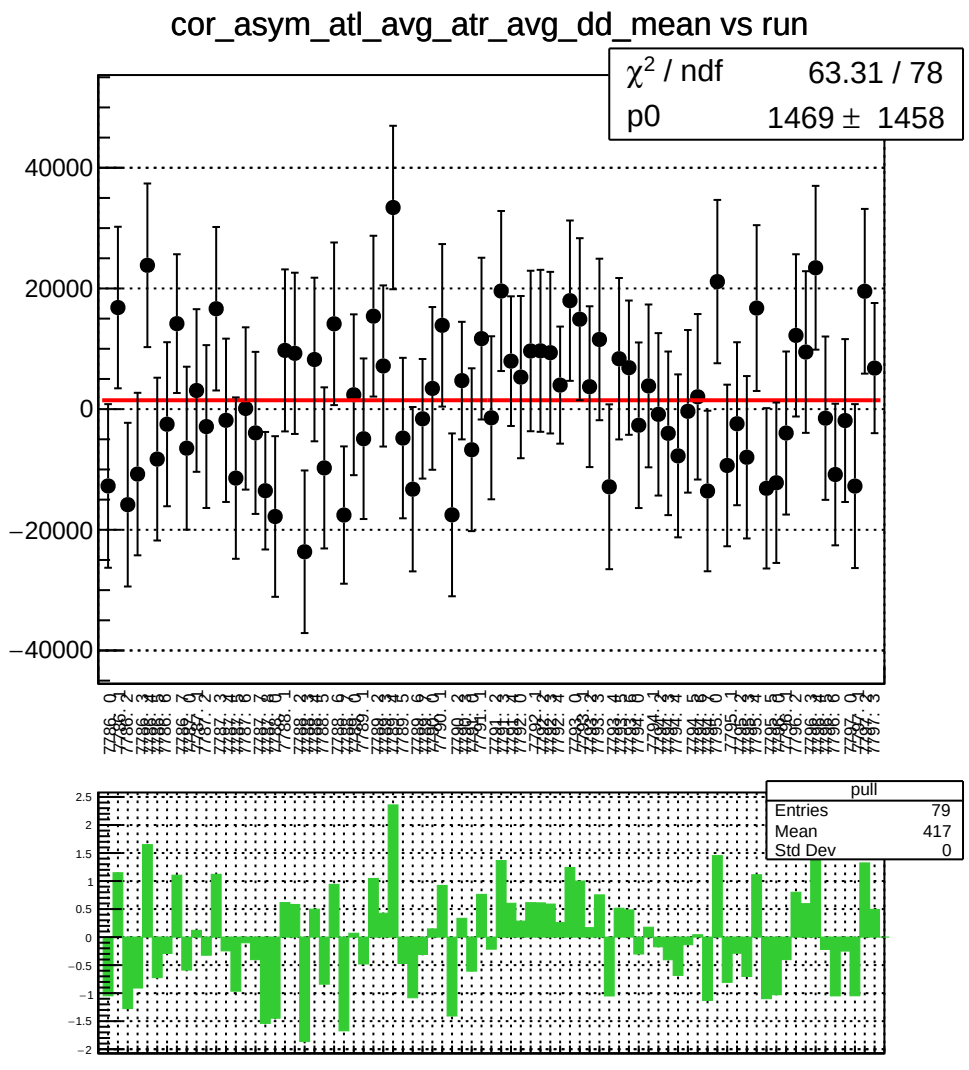

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 99.73 / 78
p0 1277 ± 1.031
1310
1300
1290
1280
1270
1260
1250

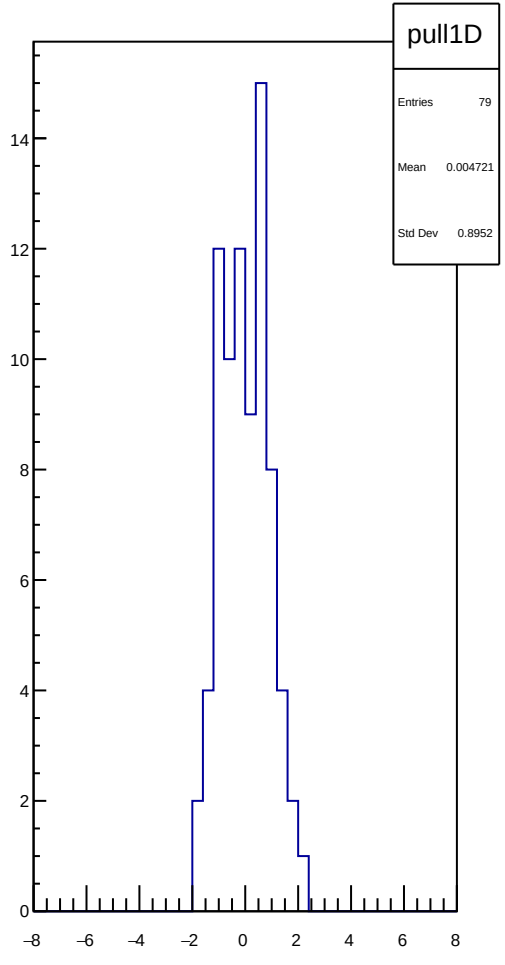
asym_atl_avg_atr_avg_dd_reg_correction_mean vs run

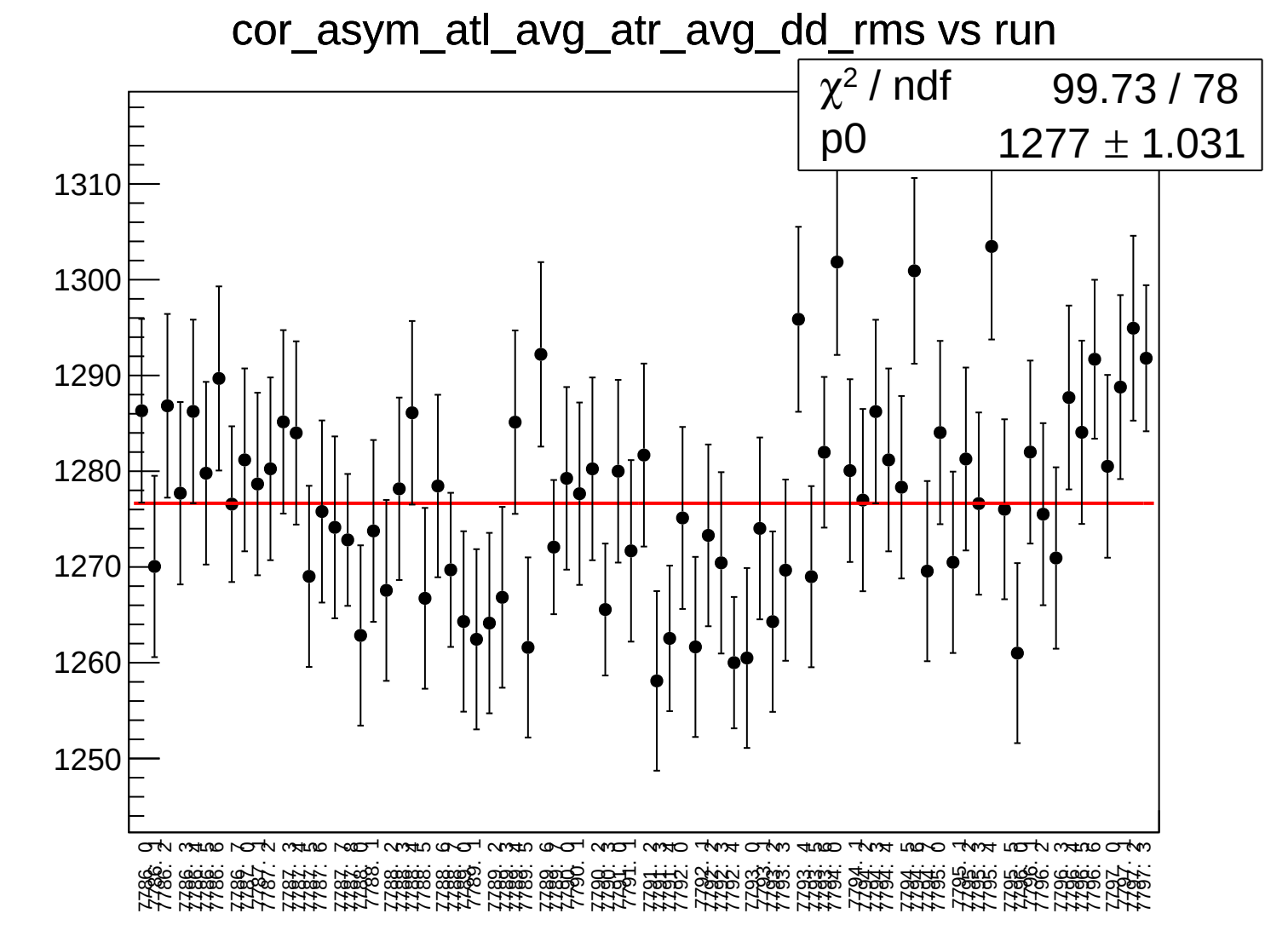


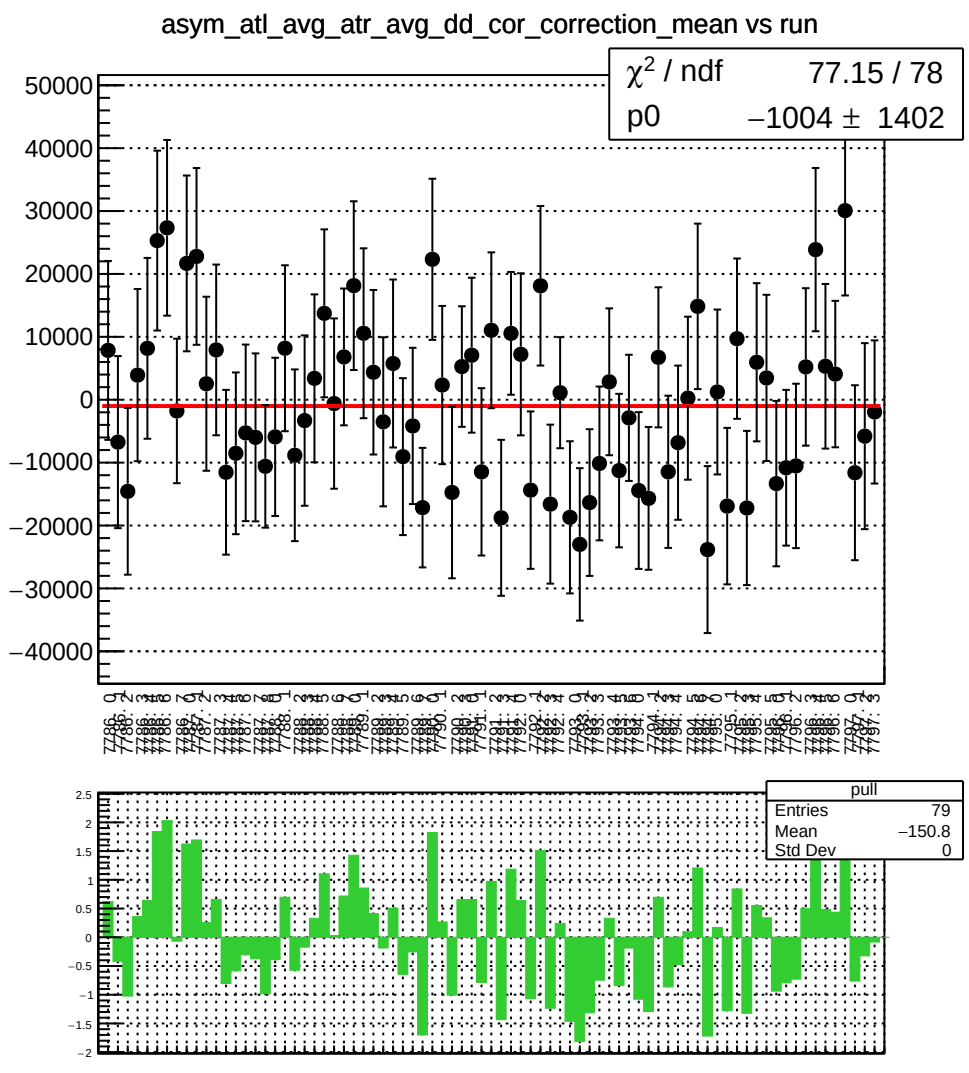


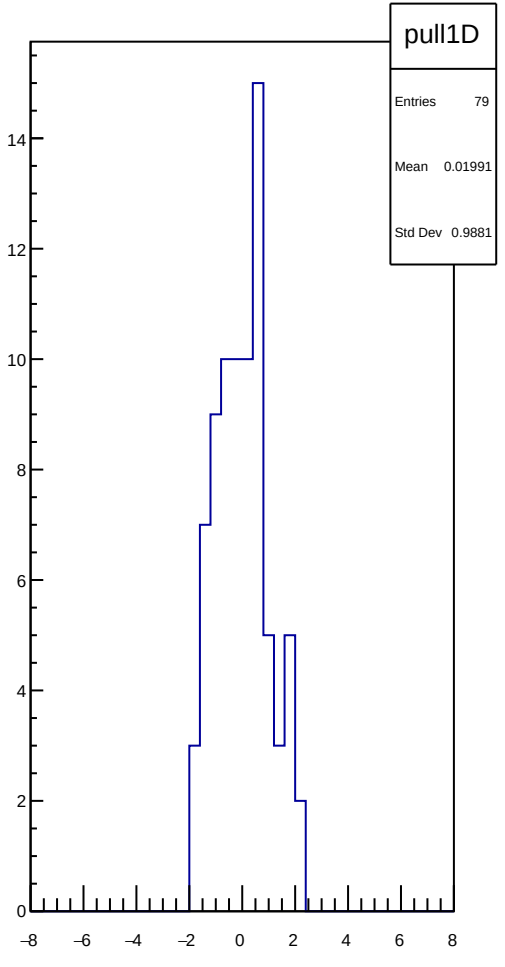

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 4873 / 78
p0 1226 ± 0.9917
1400
1350
1300
1250
1200
1150
1100
1050

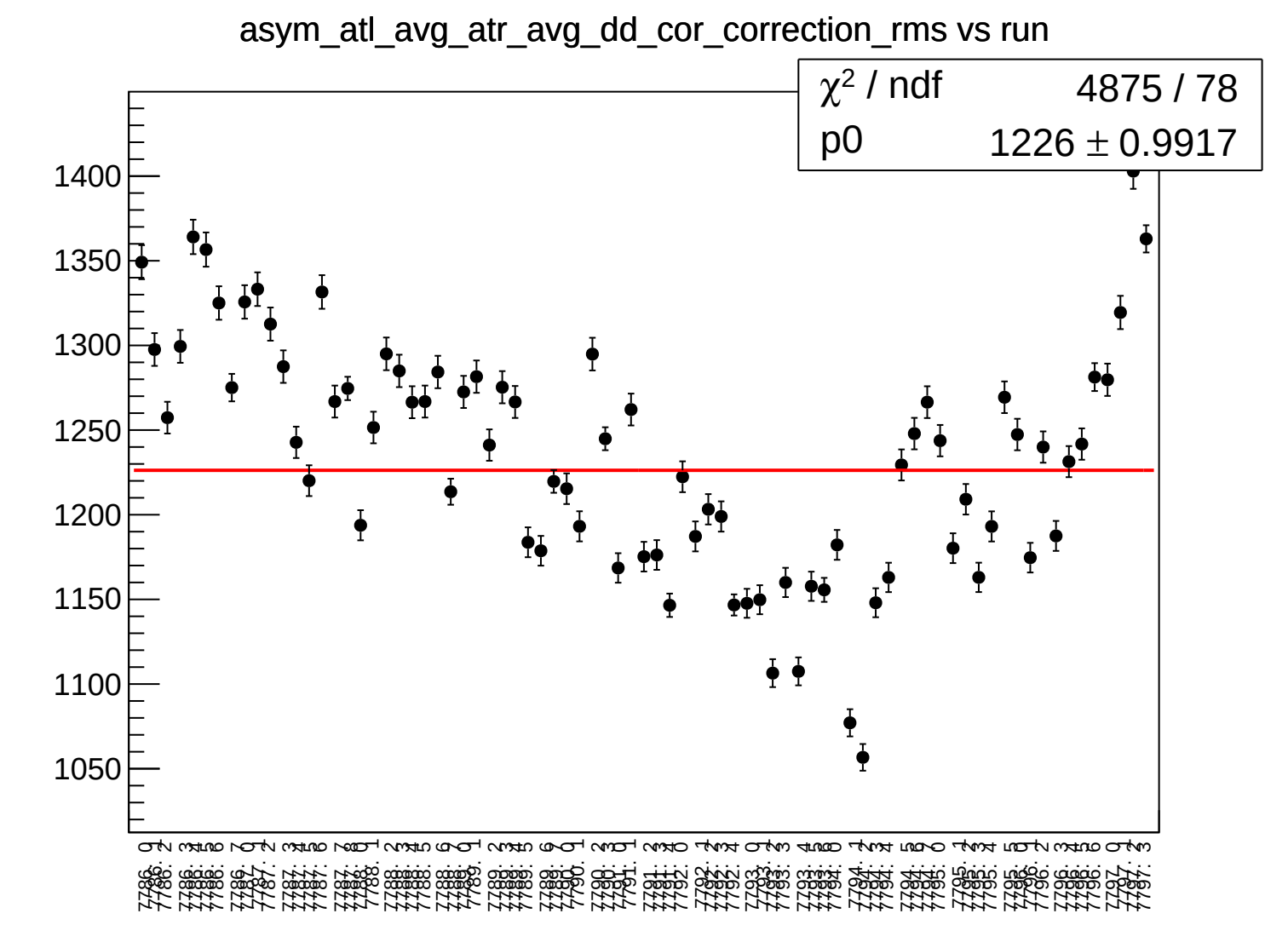

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 63.31 / 78
p0 1469 ± 1458
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 417
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

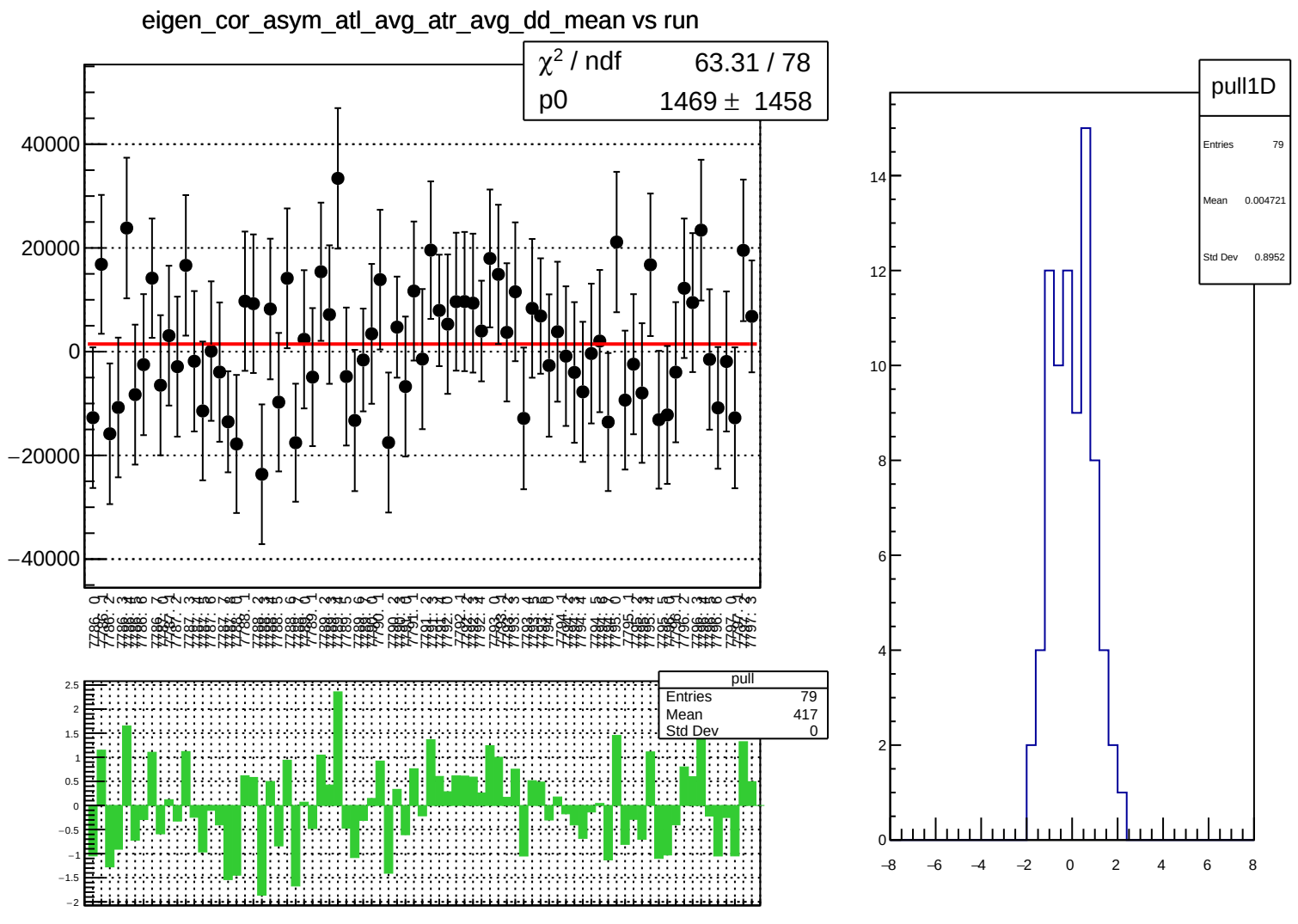

pull1D
Entries 79
Mean 0.004721
Std Dev 0.8952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

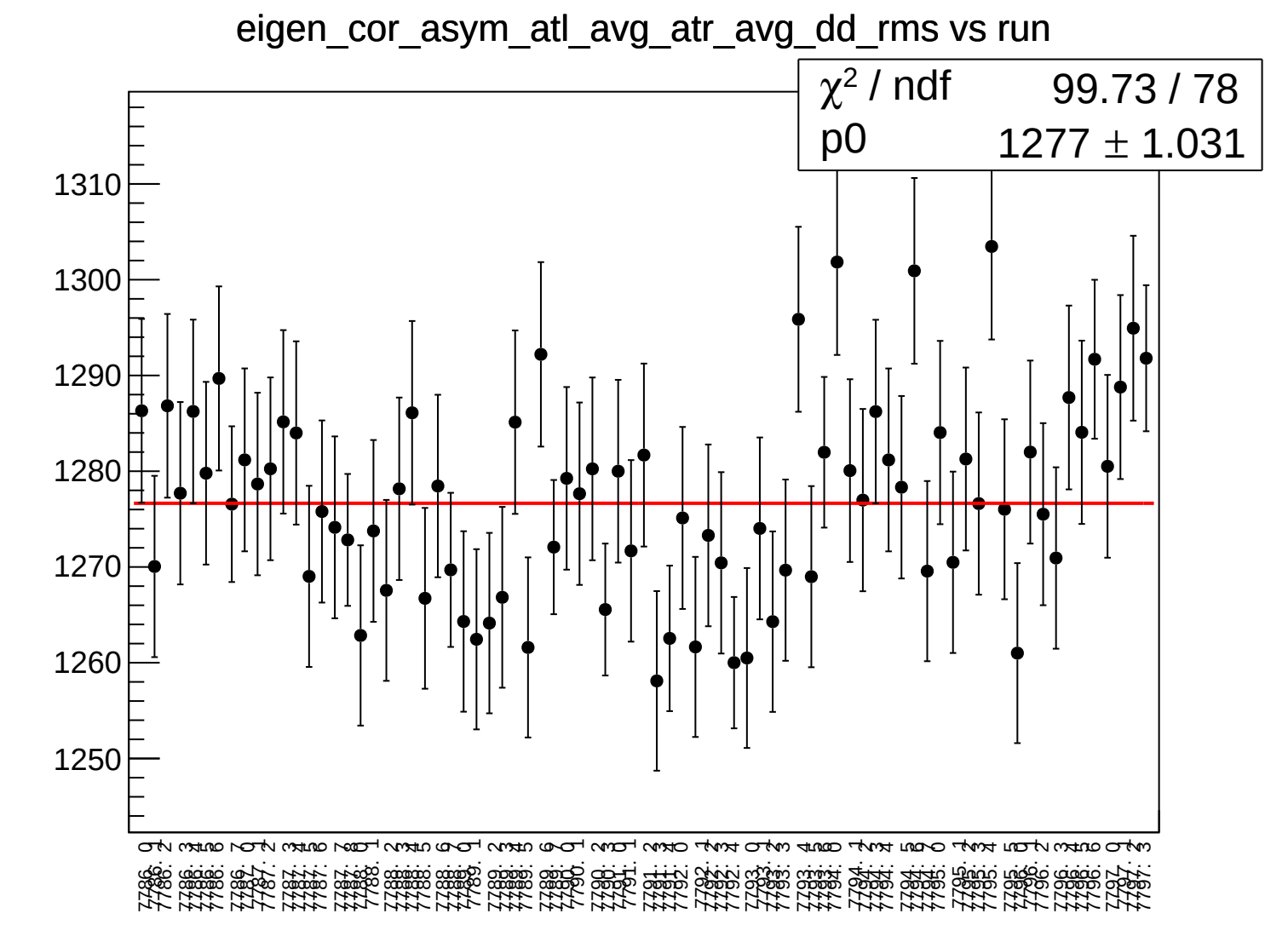

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 99.73 / 78
p0 1277 ± 1.031
1310
1300
1290
1280
1270
1260
1250

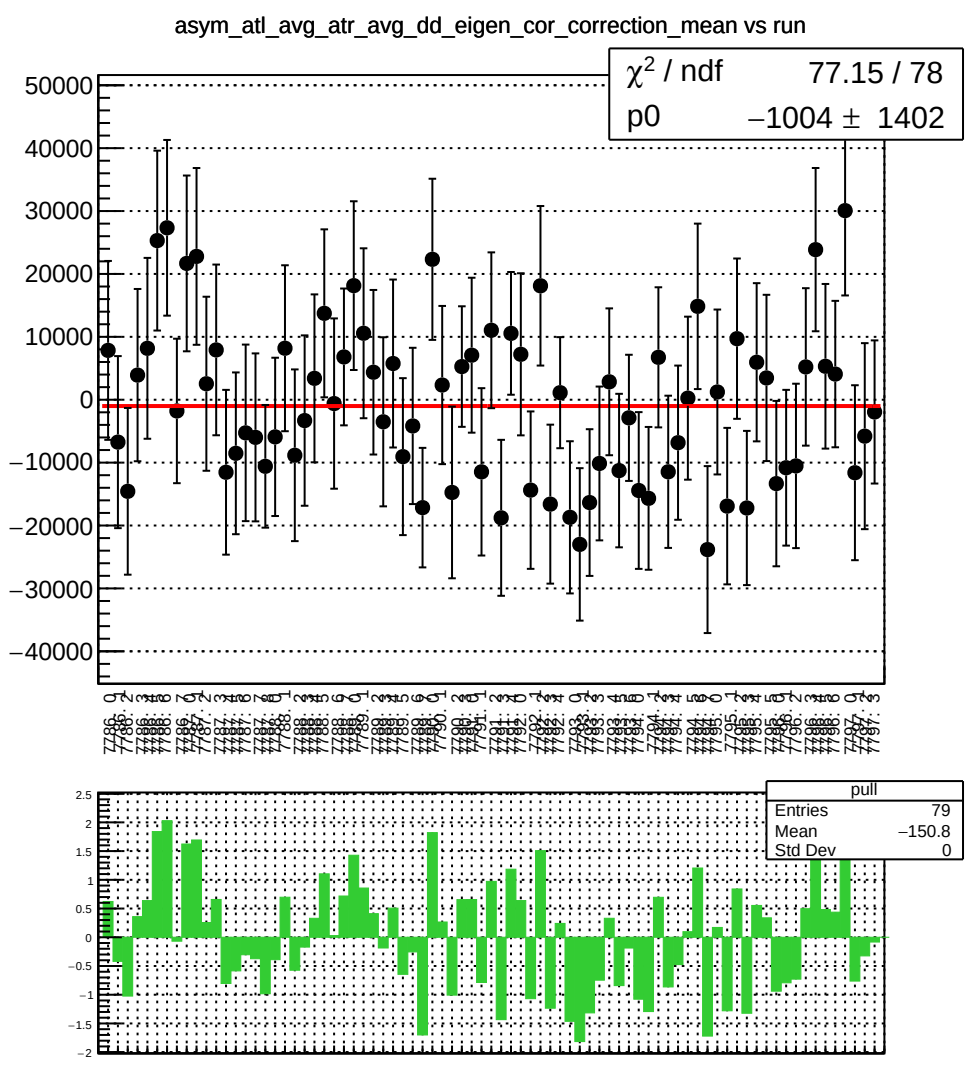

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 77.15 / 78
p0 −1004 ± 1402
pull
Entries 79
Mean −150.8
Std Dev 0

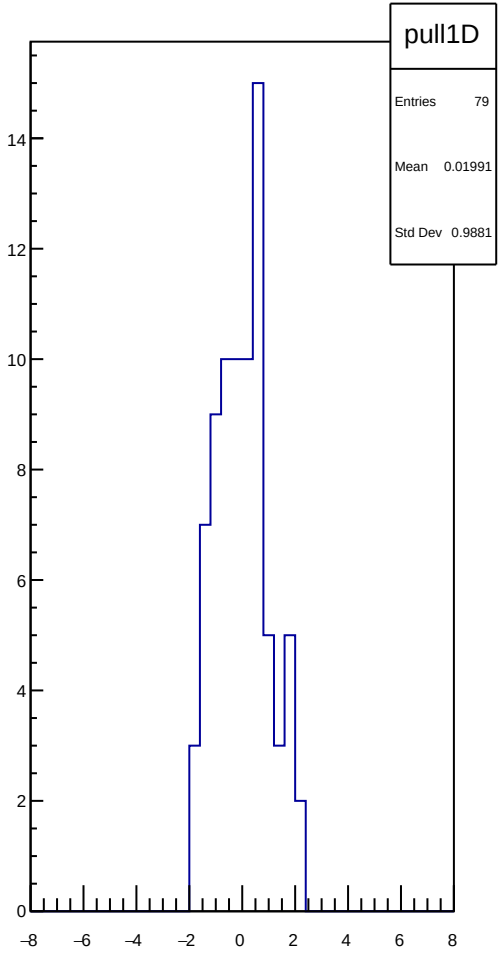

pull1D
Entries 79
Mean 0.01991
Std Dev 0.9881

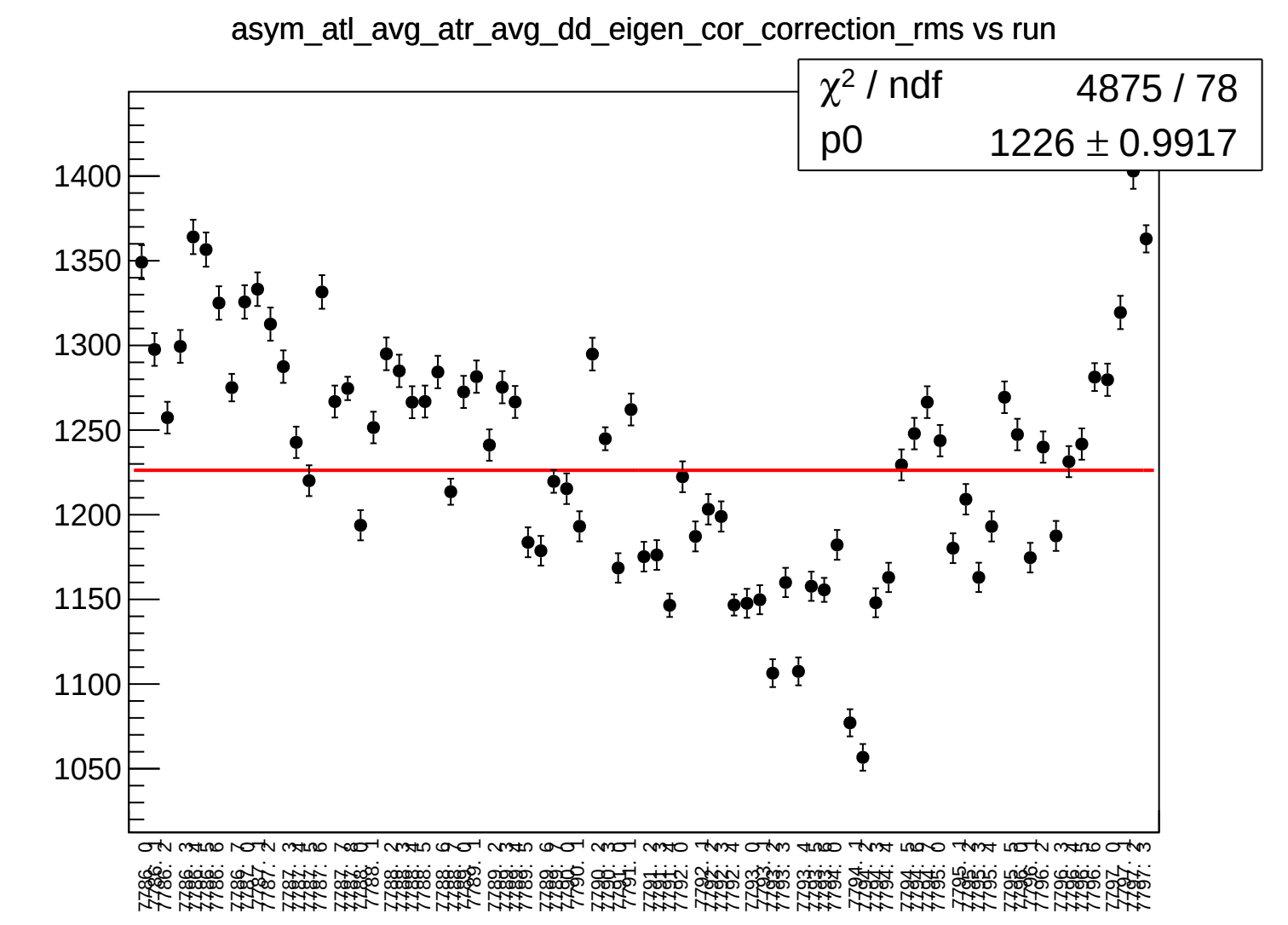

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 4875 / 78
p0 1226 ± 0.9917
1400
1350
1300
1250
1200
1150
1100
1050

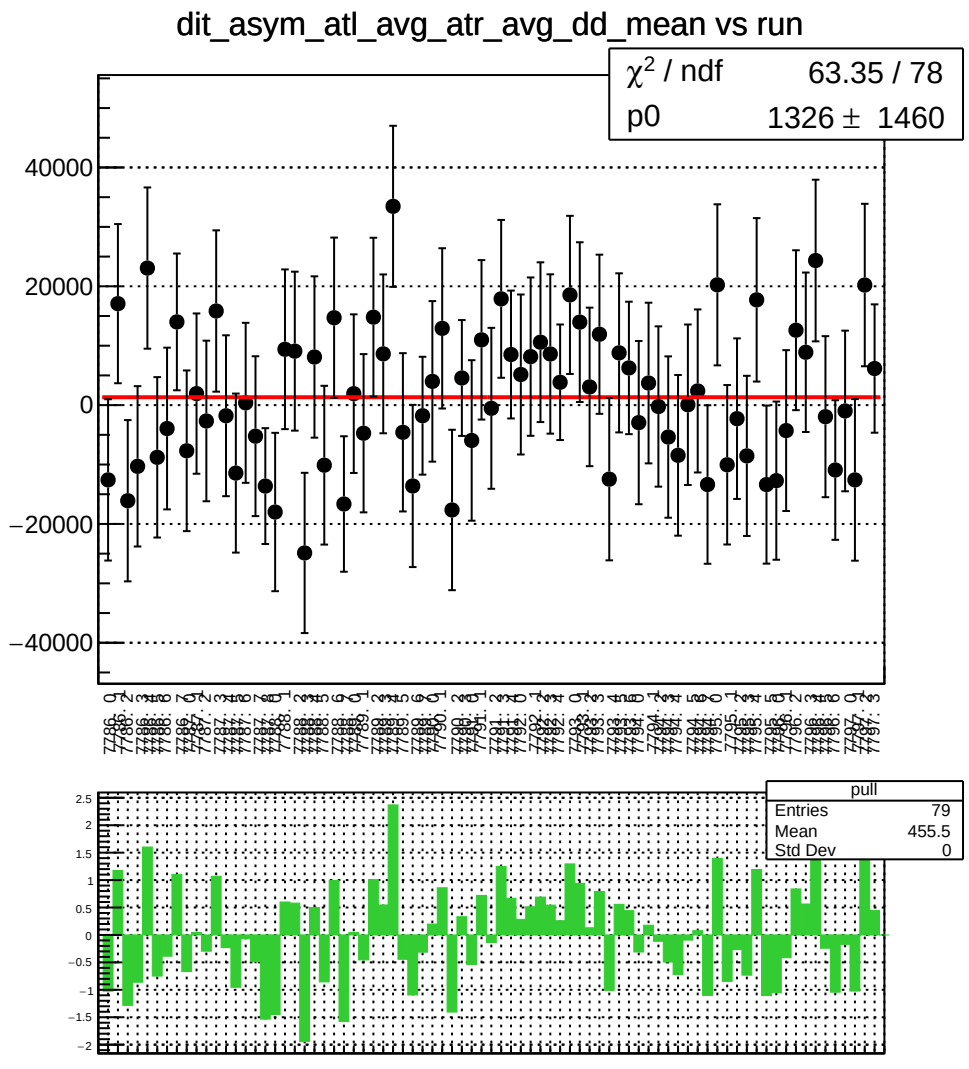

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 63.31 / 78
p0 1469 ± 1458
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 417
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 79
Mean 0.004721
Std Dev 0.8952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

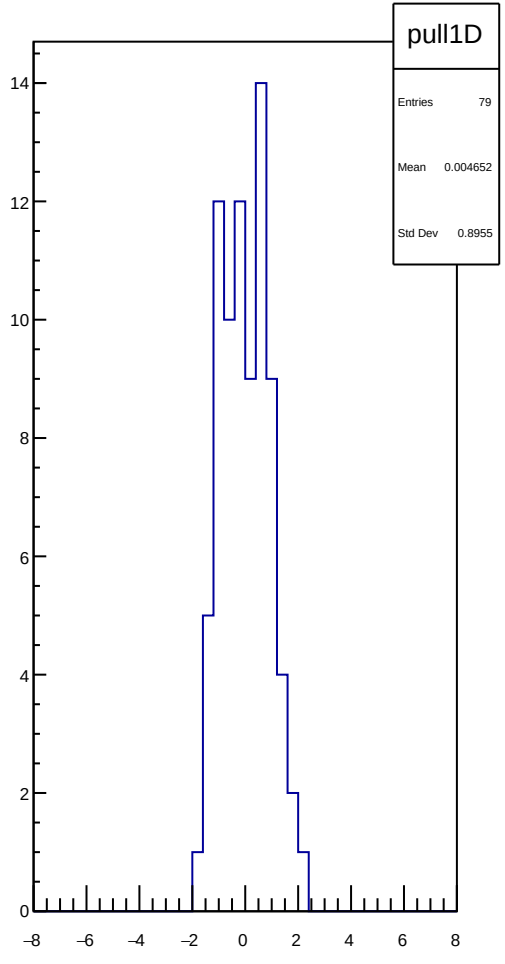

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 99.73 / 78
p0 1277 ± 1.031
1310
1300
1290
1280
1270
1260
1250

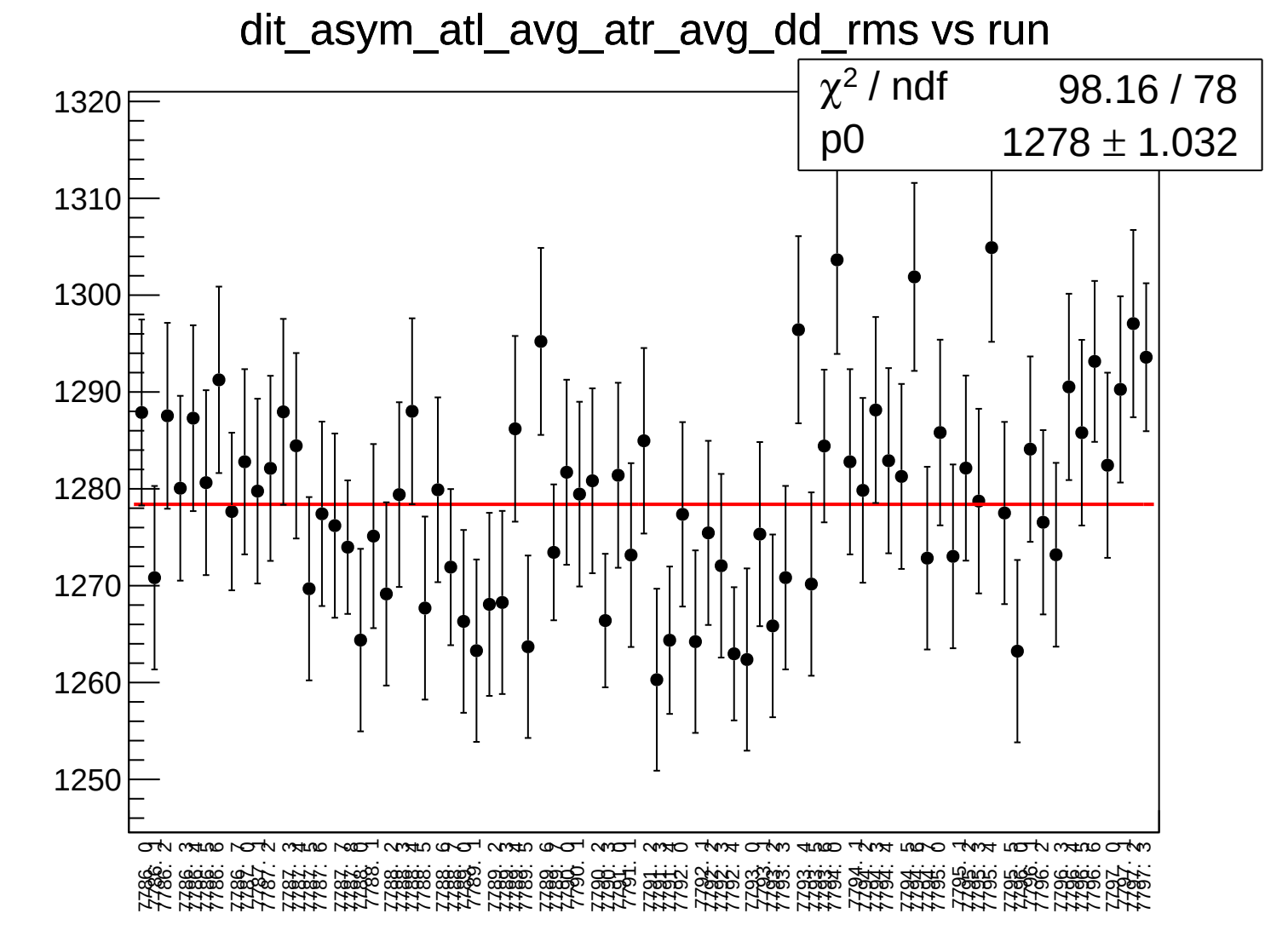

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.15 / 78
p0 −1004 ± 1402
pull
Entries 79
Mean −150.8
Std Dev 0


pull1D
Entries 79
Mean 0.01991
Std Dev 0.9881

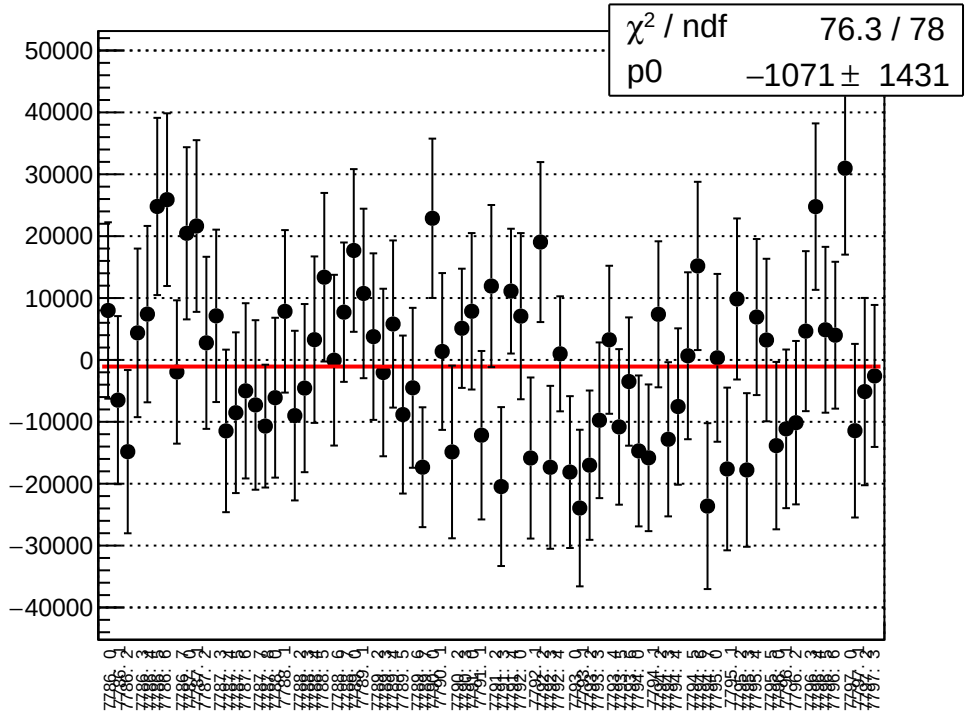

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4875 / 78
p0 1226 ± 0.9917
1400
1350
1300
1250
1200
1150
1100
1050

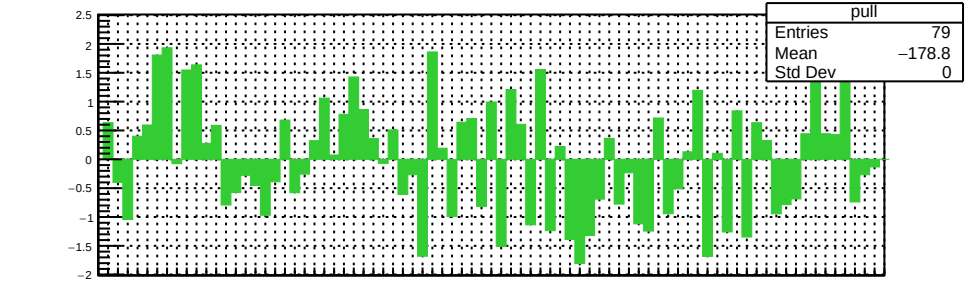

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 63.35 / 78
p0 1326 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 455.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

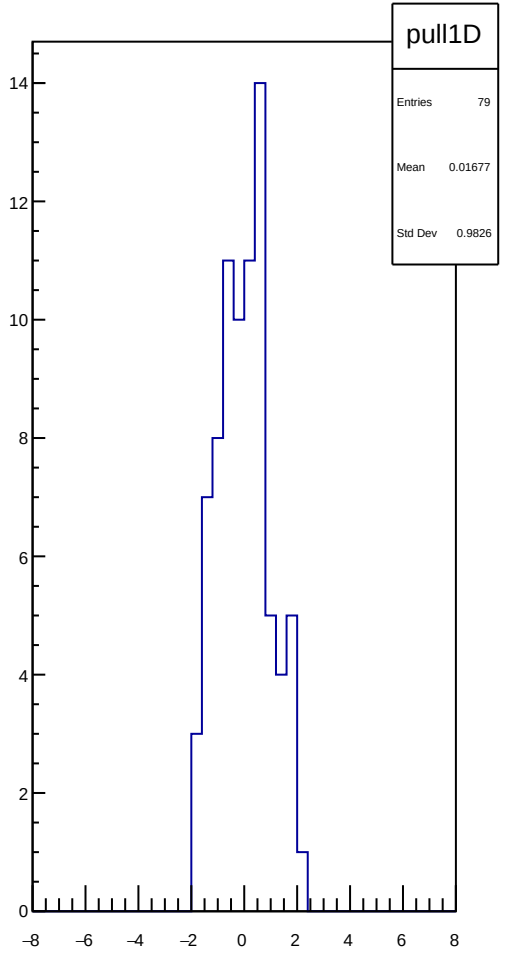

pull1D
Entries 79
Mean 0.004652
Std Dev 0.8955
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

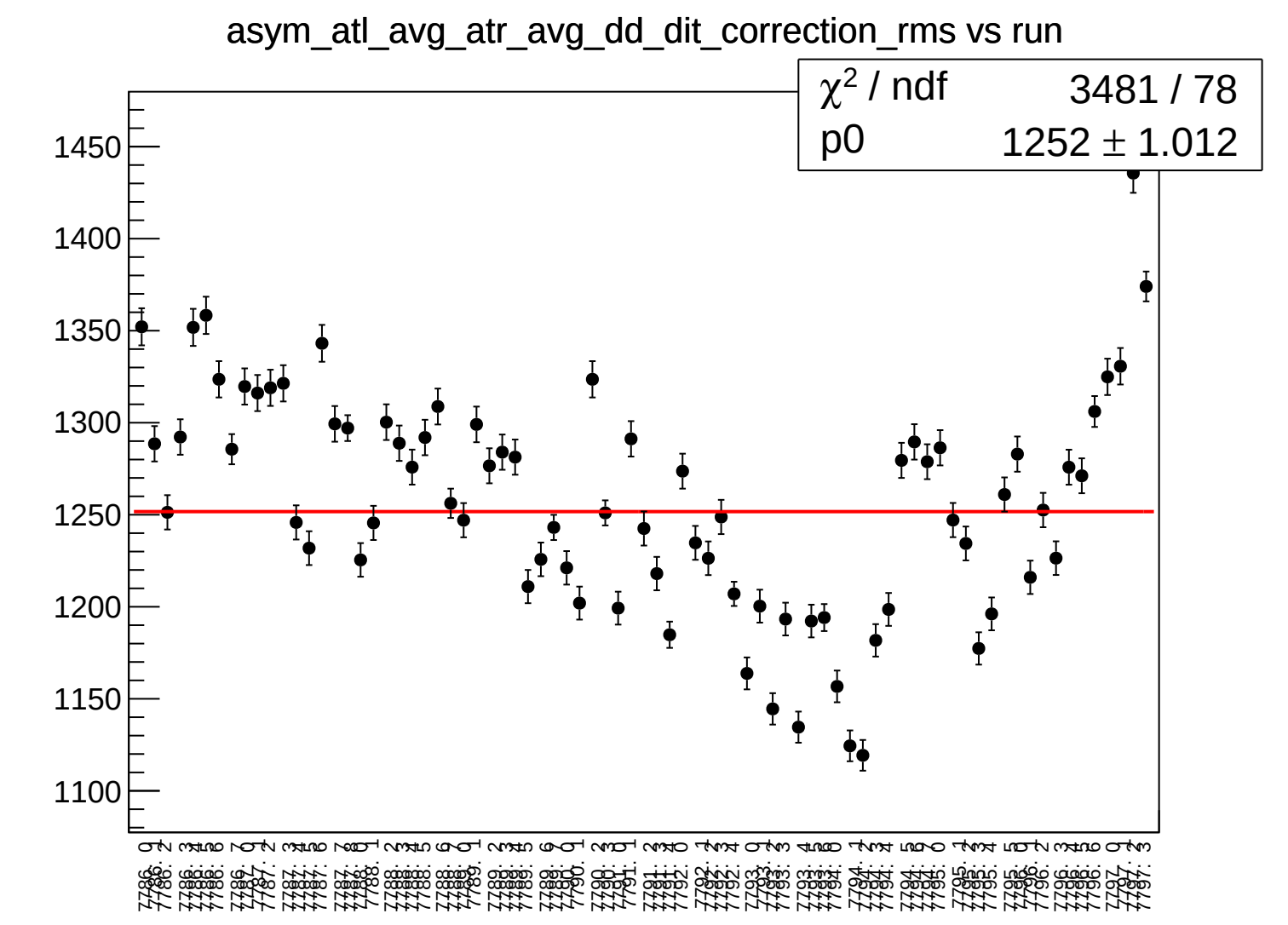

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 98.16 / 78
p0 1278 ± 1.032
1320
1310
1300
1290
1280
1270
1260
1250

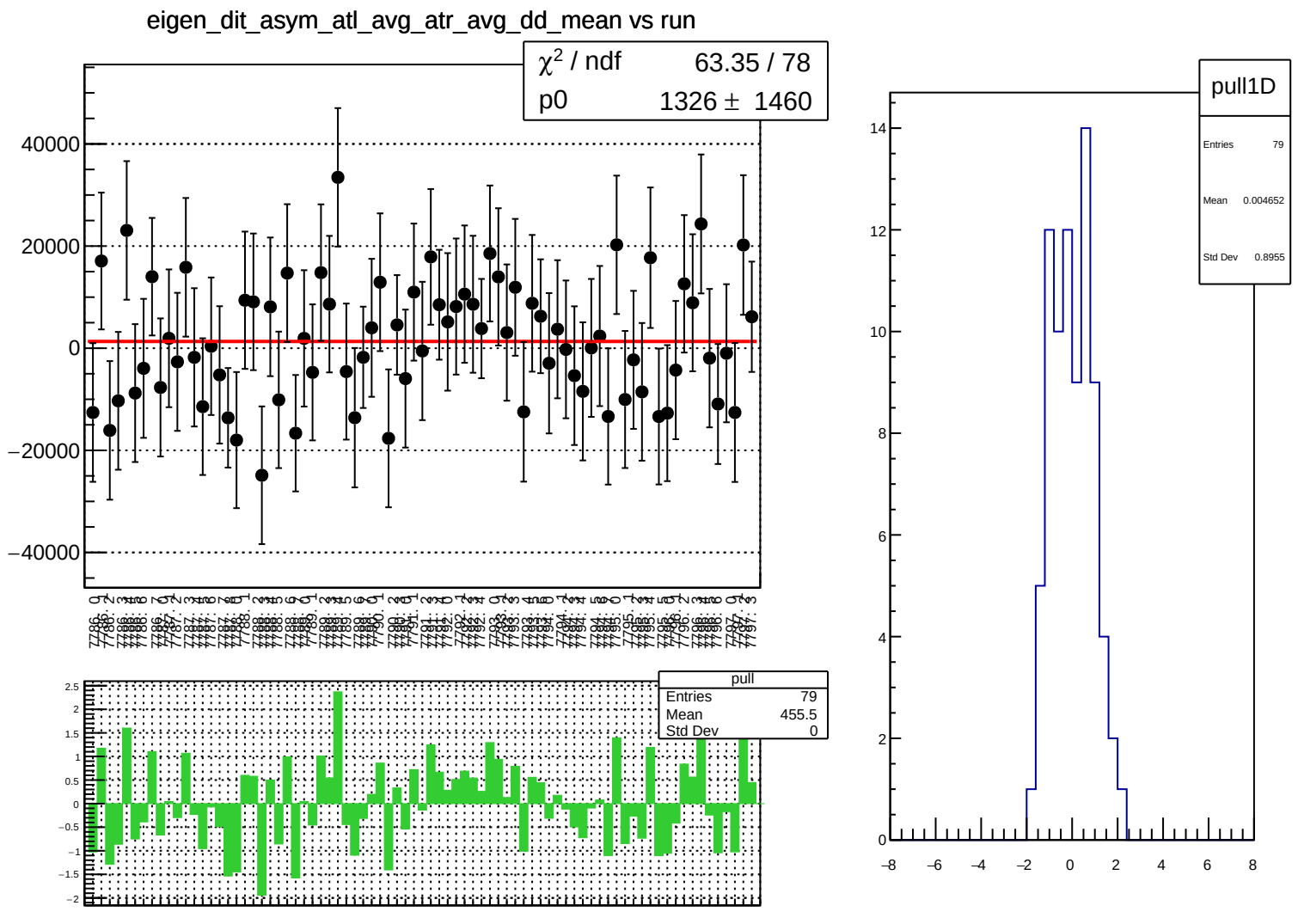
asym_atl_avg_atr_avg_dd_dit_correction_mean vs run

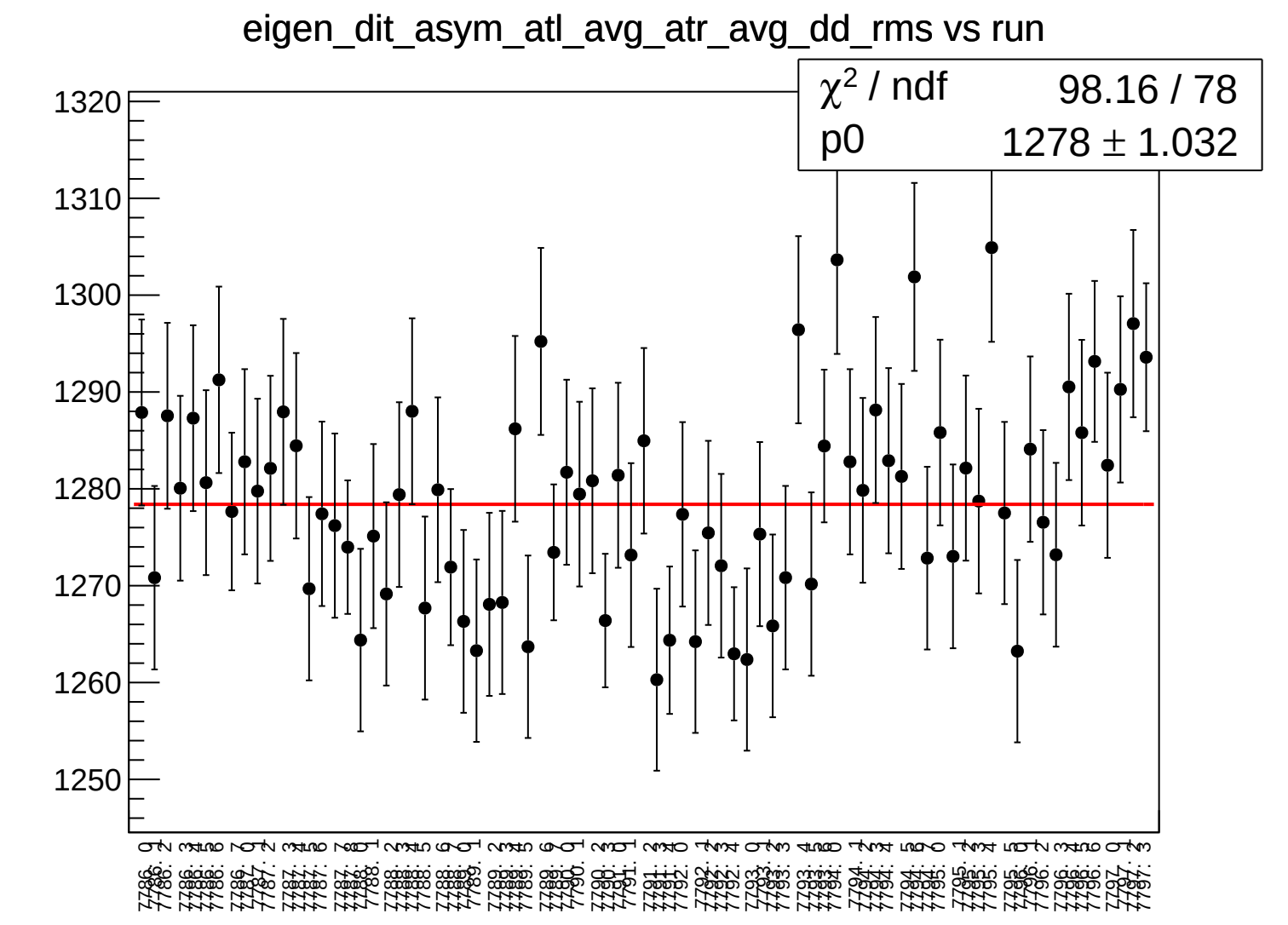


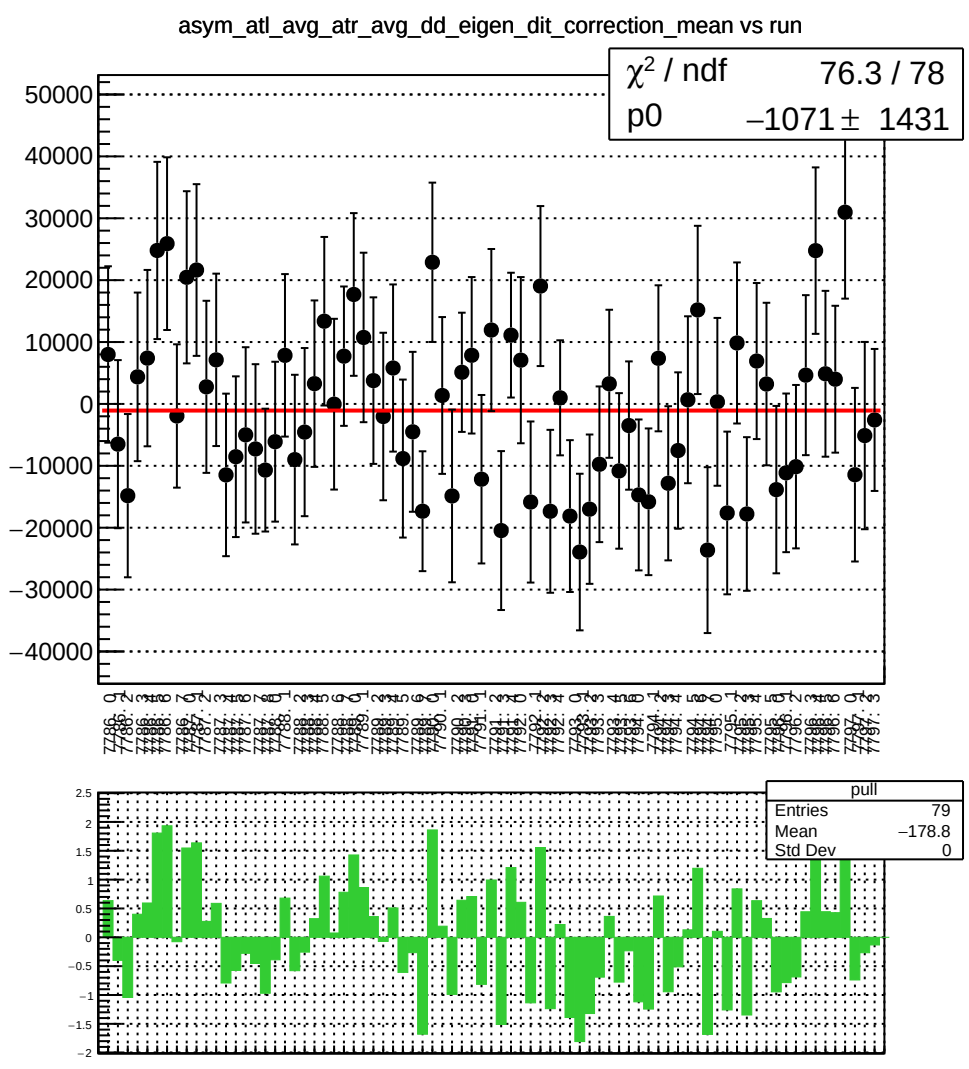


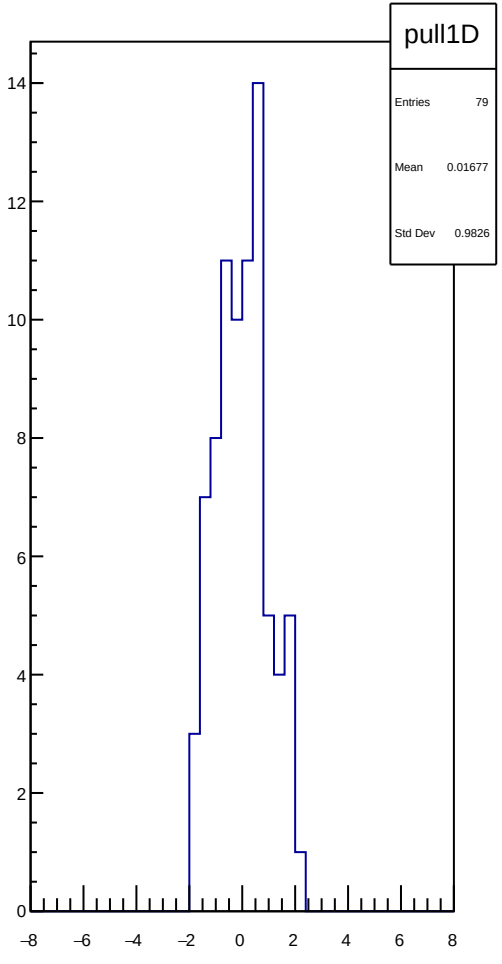


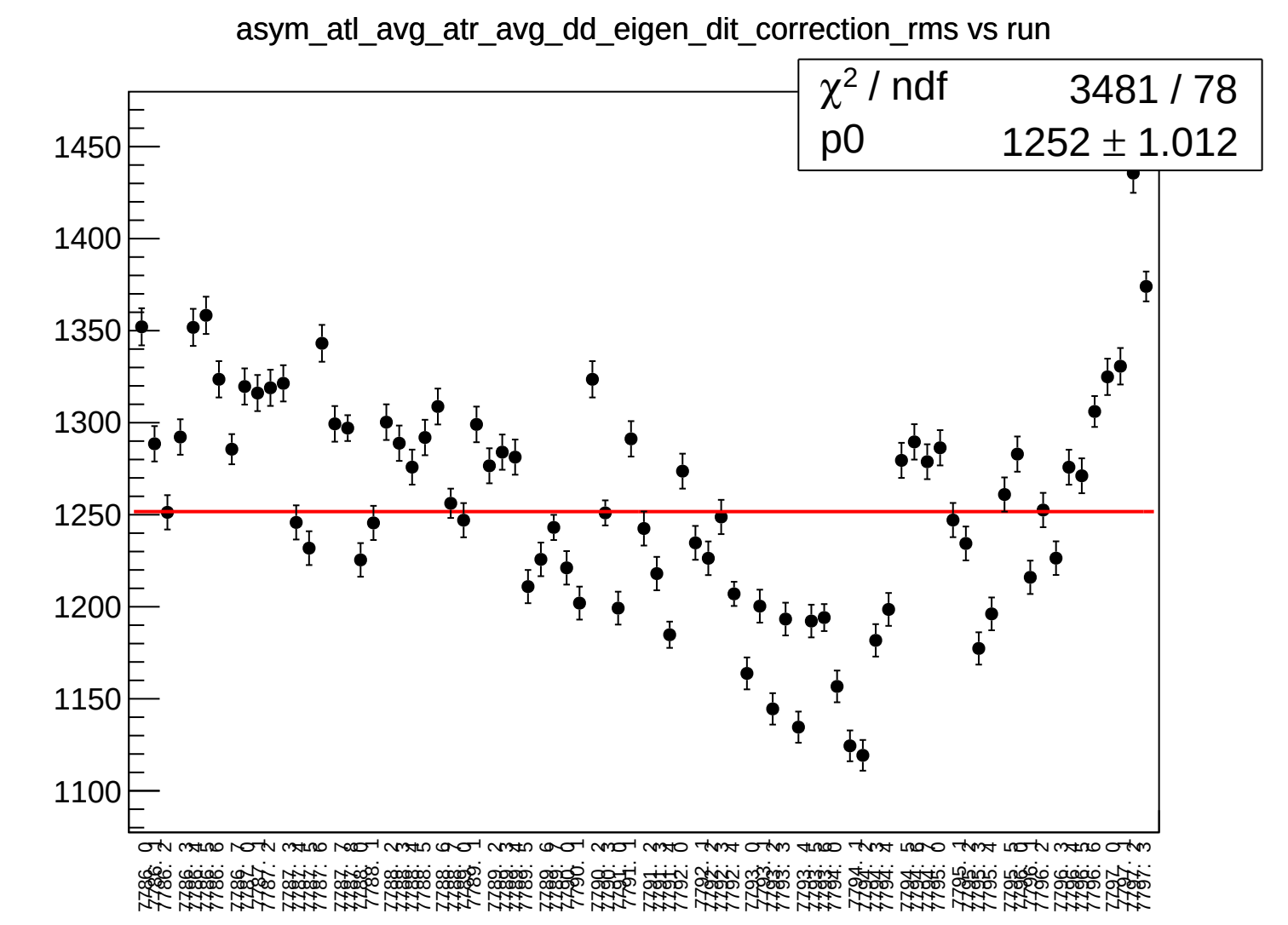

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 3481 / 78
p0 1252 ± 1.012
1450
1400
1350
1300
1250
1200
1150
1100

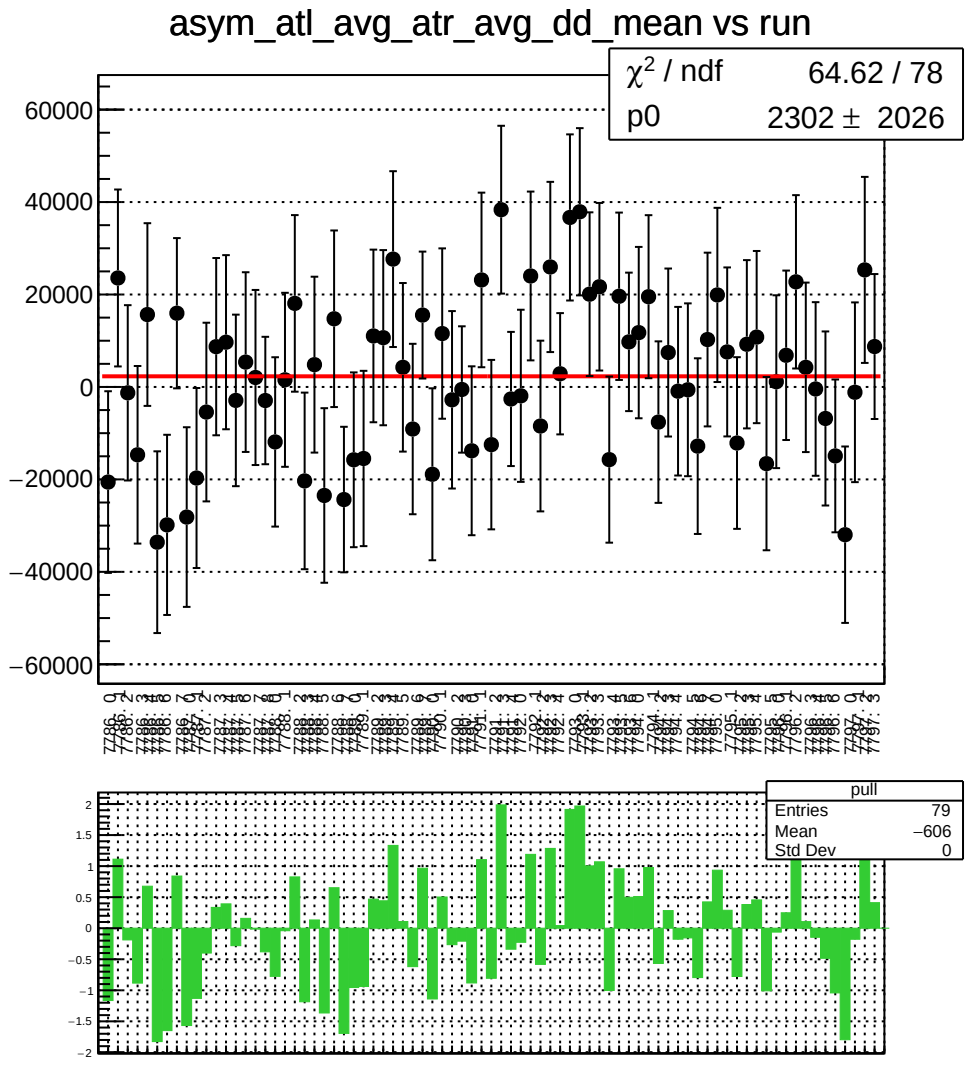

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 63.35 / 78
p0 1326 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 455.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 79
Mean 0.004652
Std Dev 0.8955
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

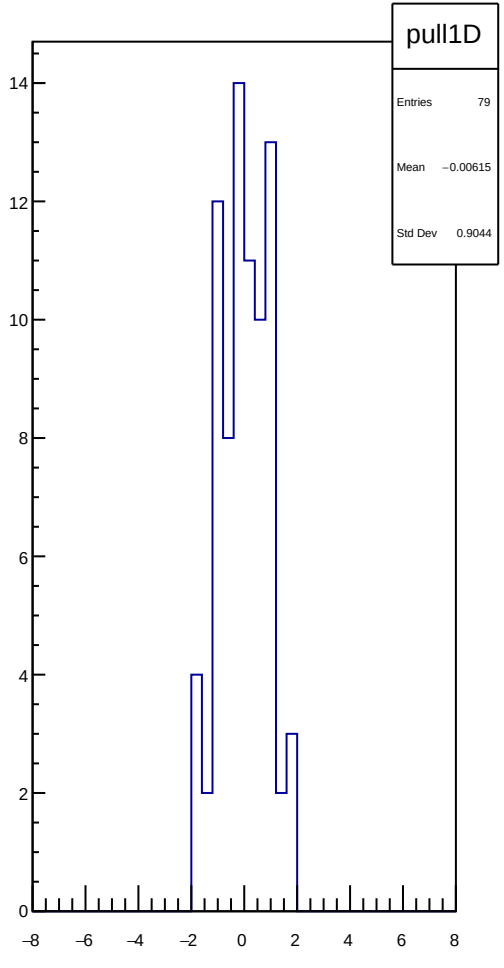

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 98.16 / 78
p0 1278 ± 1.032
1320
1310
1300
1290
1280
1270
1260
1250

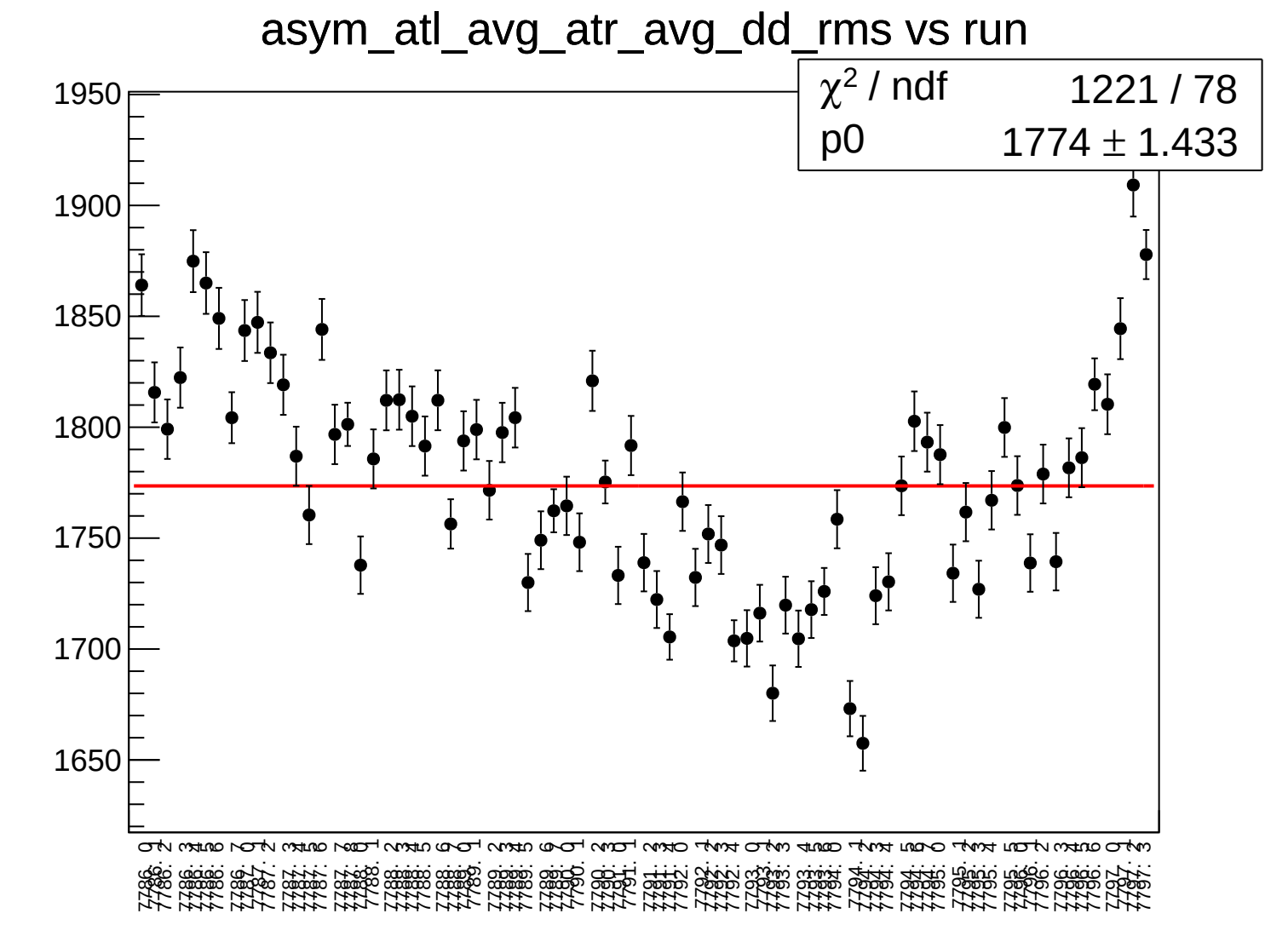

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.3 / 78
p0 −1071 ± 1431
pull
Entries 79
Mean −178.8
Std Dev 0

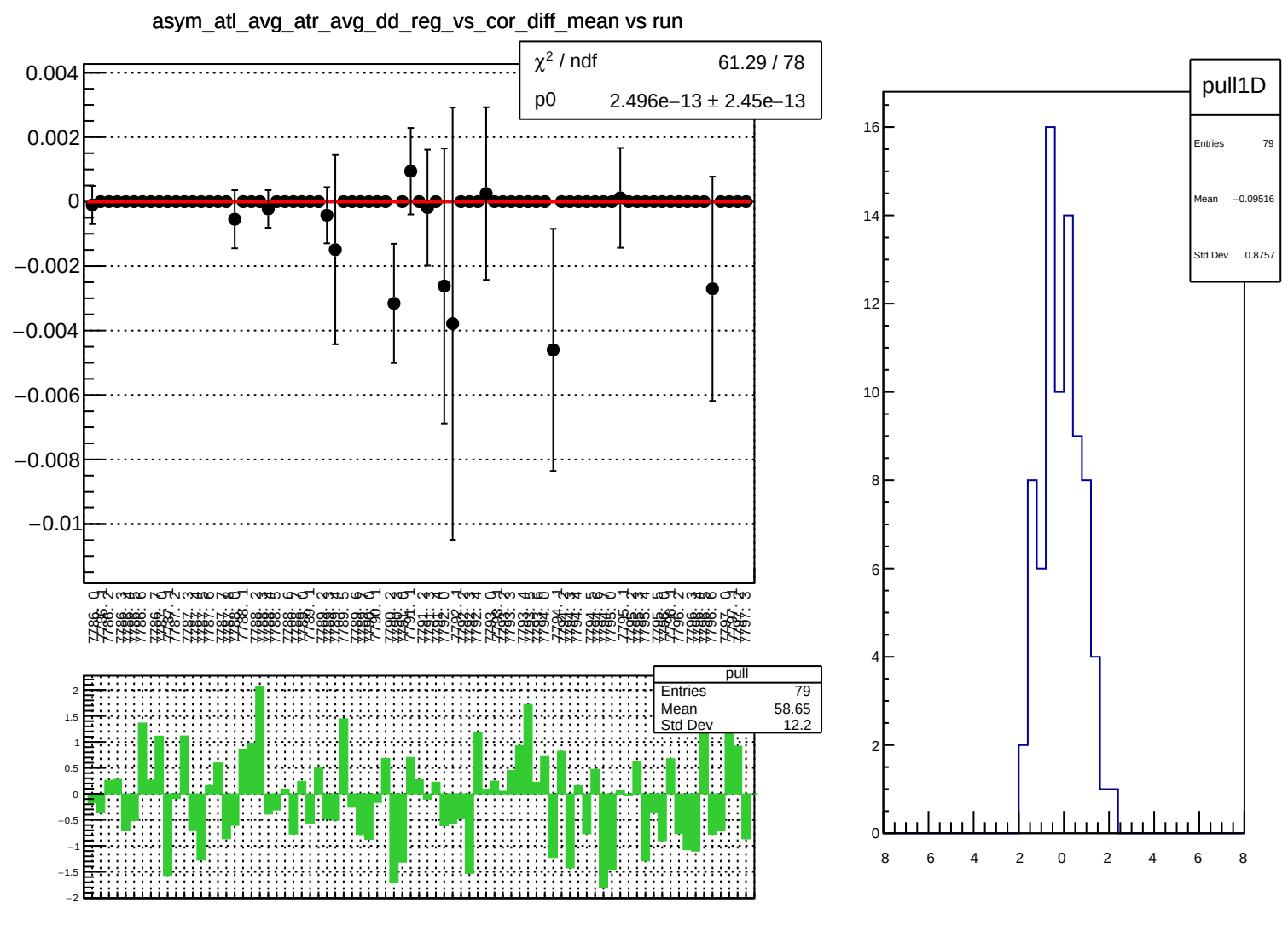

pull1D
Entries 79
Mean 0.01677
Std Dev 0.9826

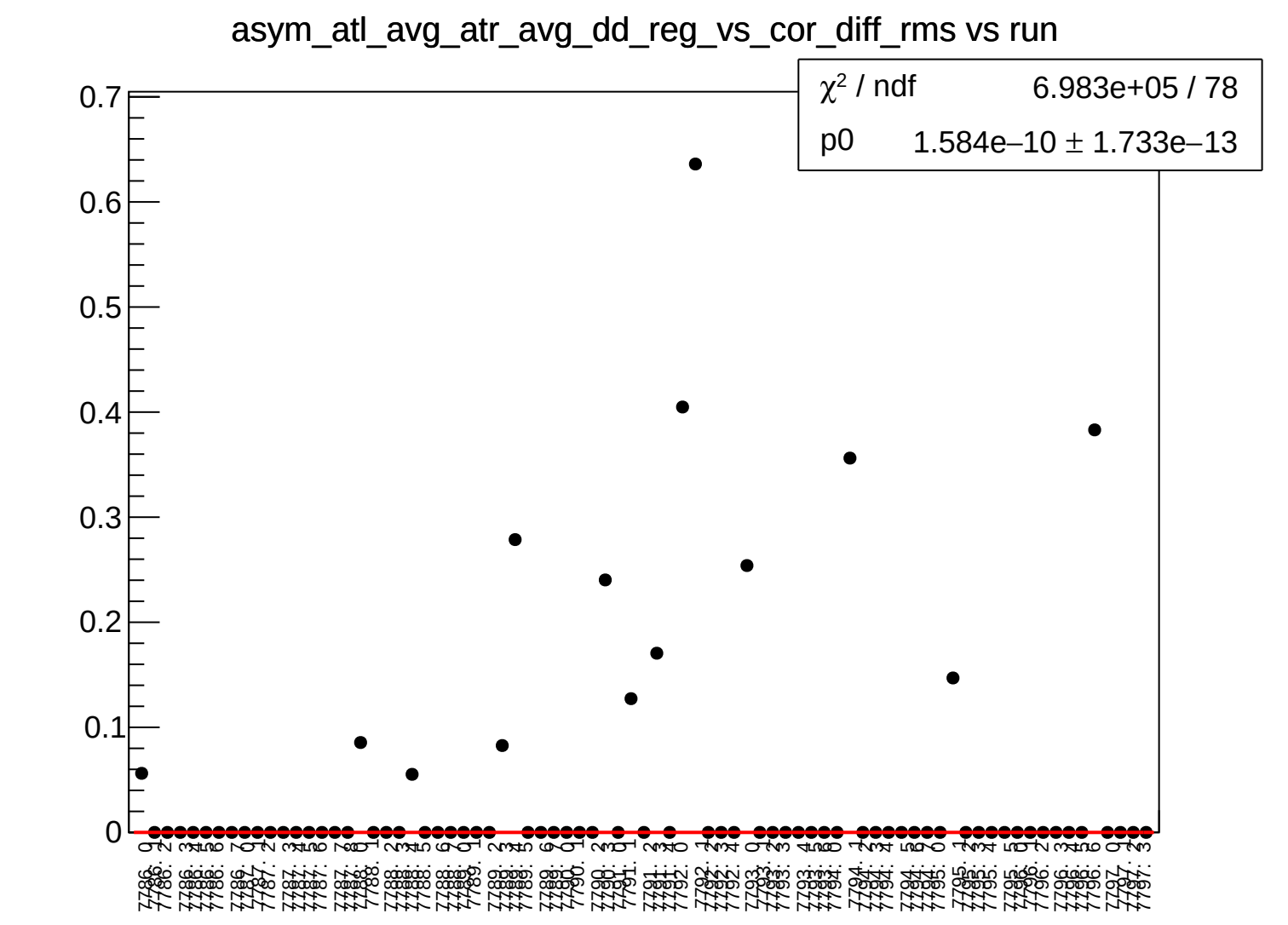

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3481 / 78
p0 1252 ± 1.012
1450
1400
1350
1300
1250
1200
1150
1100

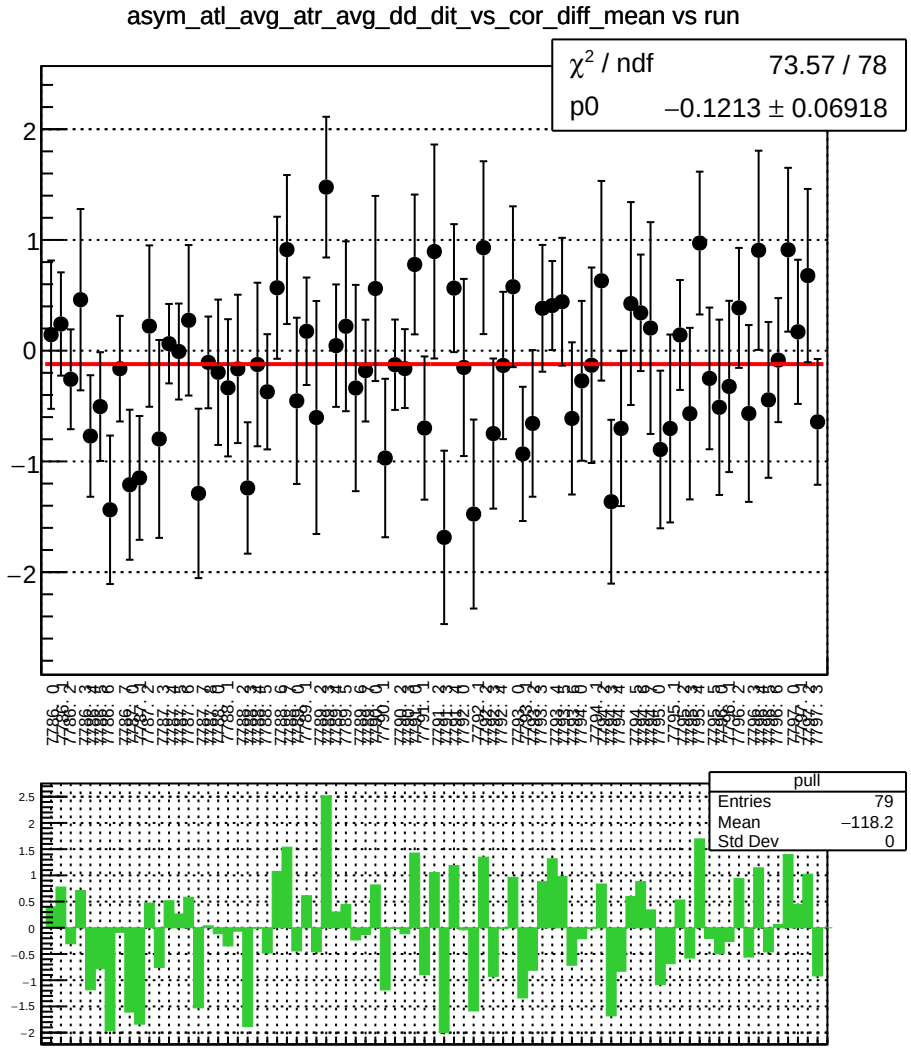

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 64.62 / 78
p0 2302 ± 2026
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −606
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

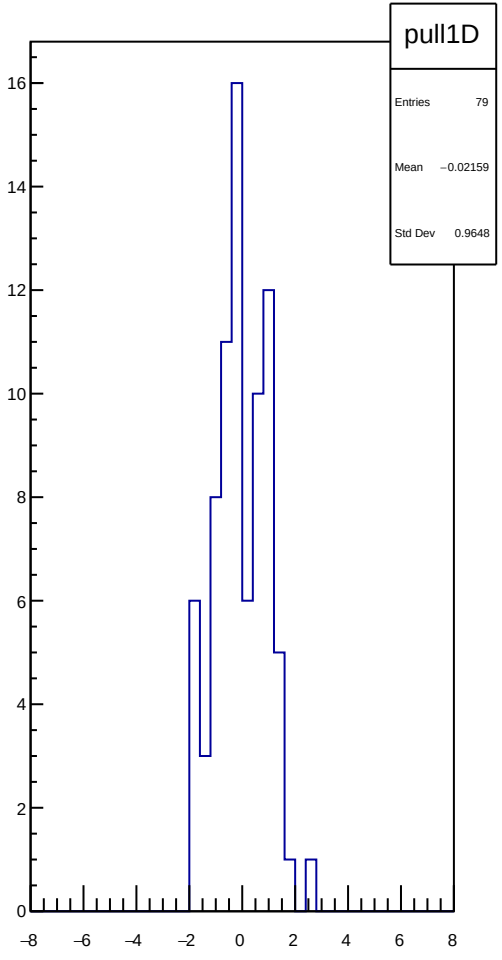

pull1D
Entries 79
Mean −0.00615
Std Dev 0.9044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

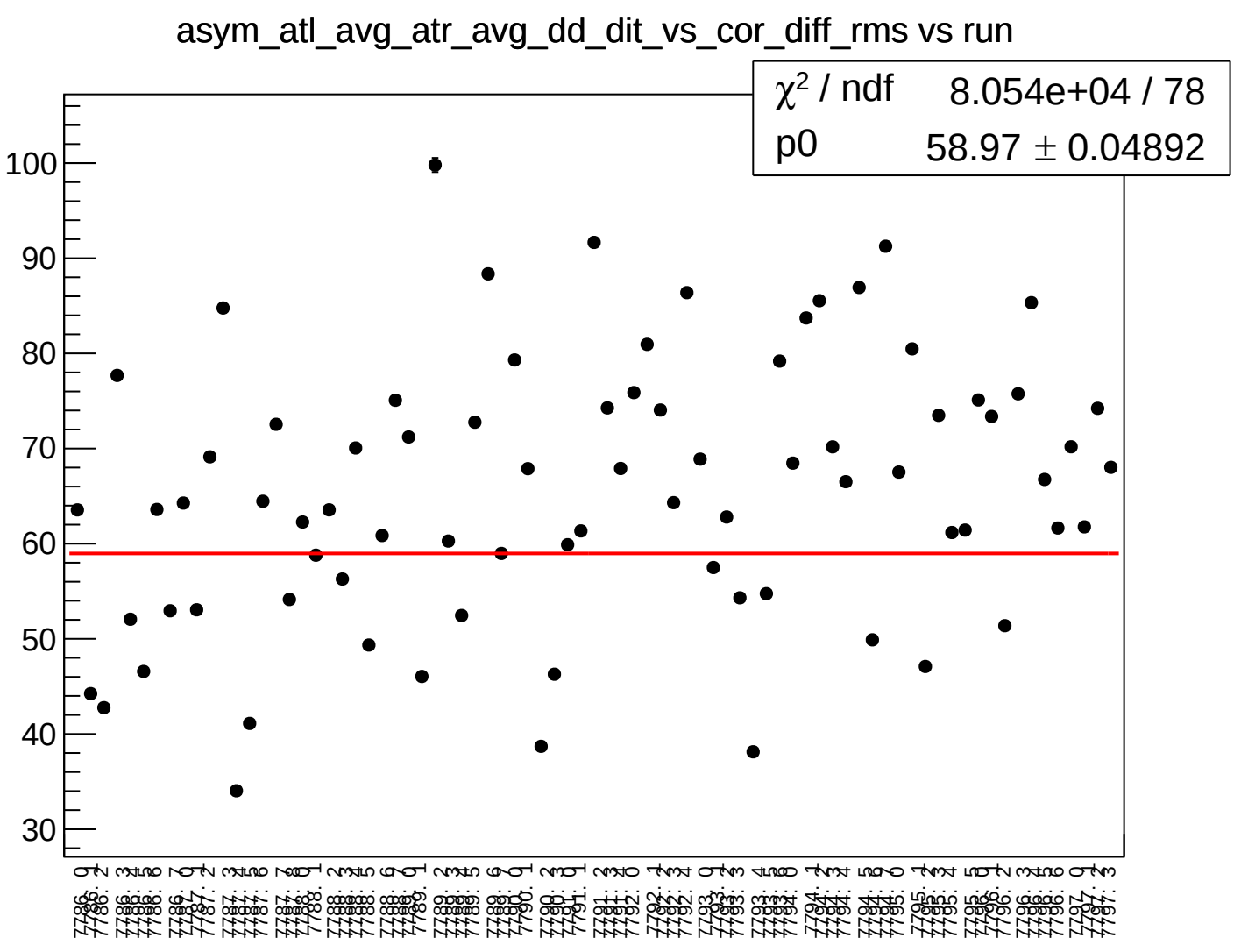

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1221 / 78
p0 1774 ± 1.433
1950
1900
1850
1800
1750
1700
1650

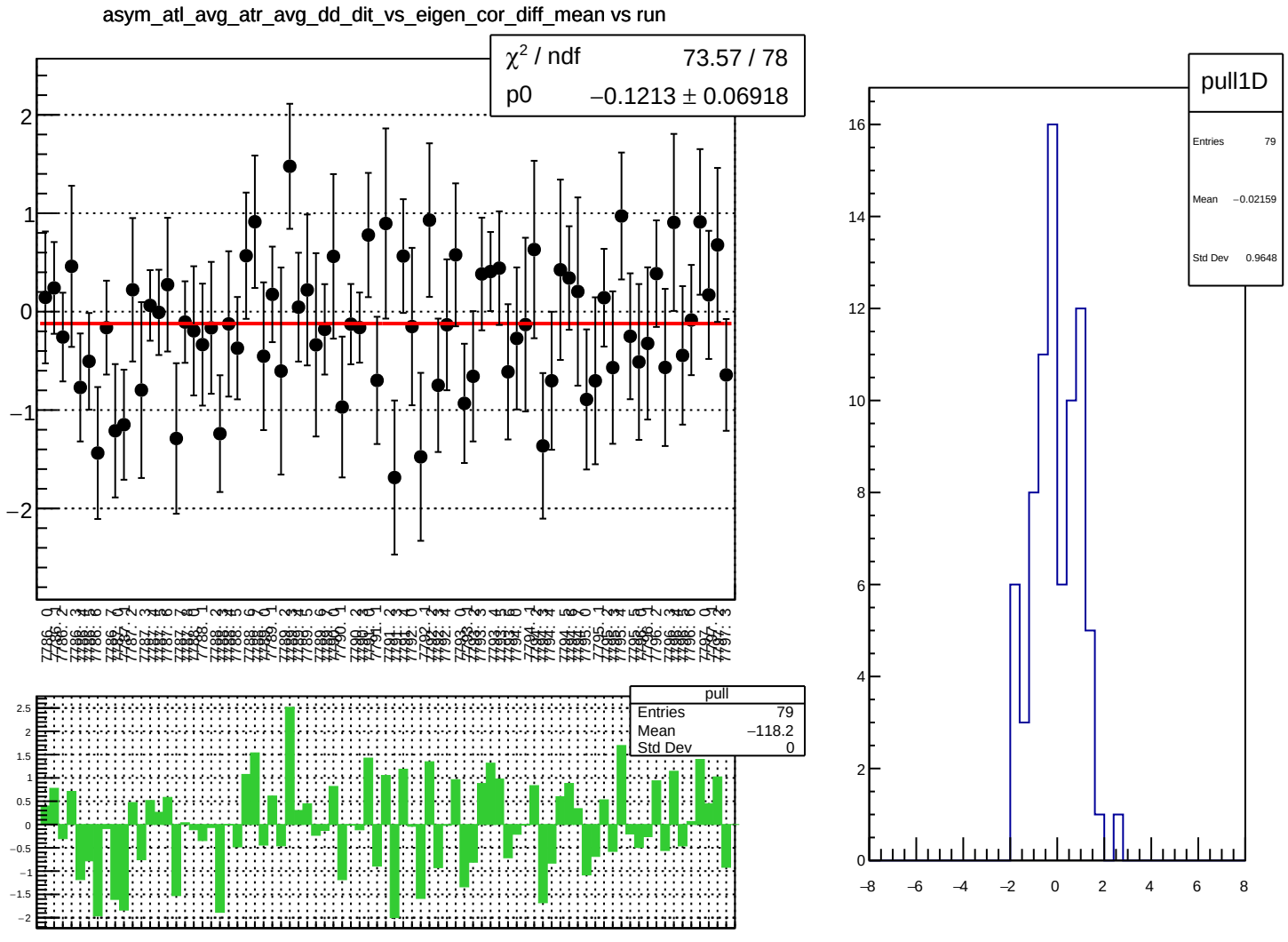

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 61.29 / 78
p0 2.496e−13 ± 2.45e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 79
Mean 58.65
Std Dev 12.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 79
Mean −0.09516
Std Dev 0.8757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

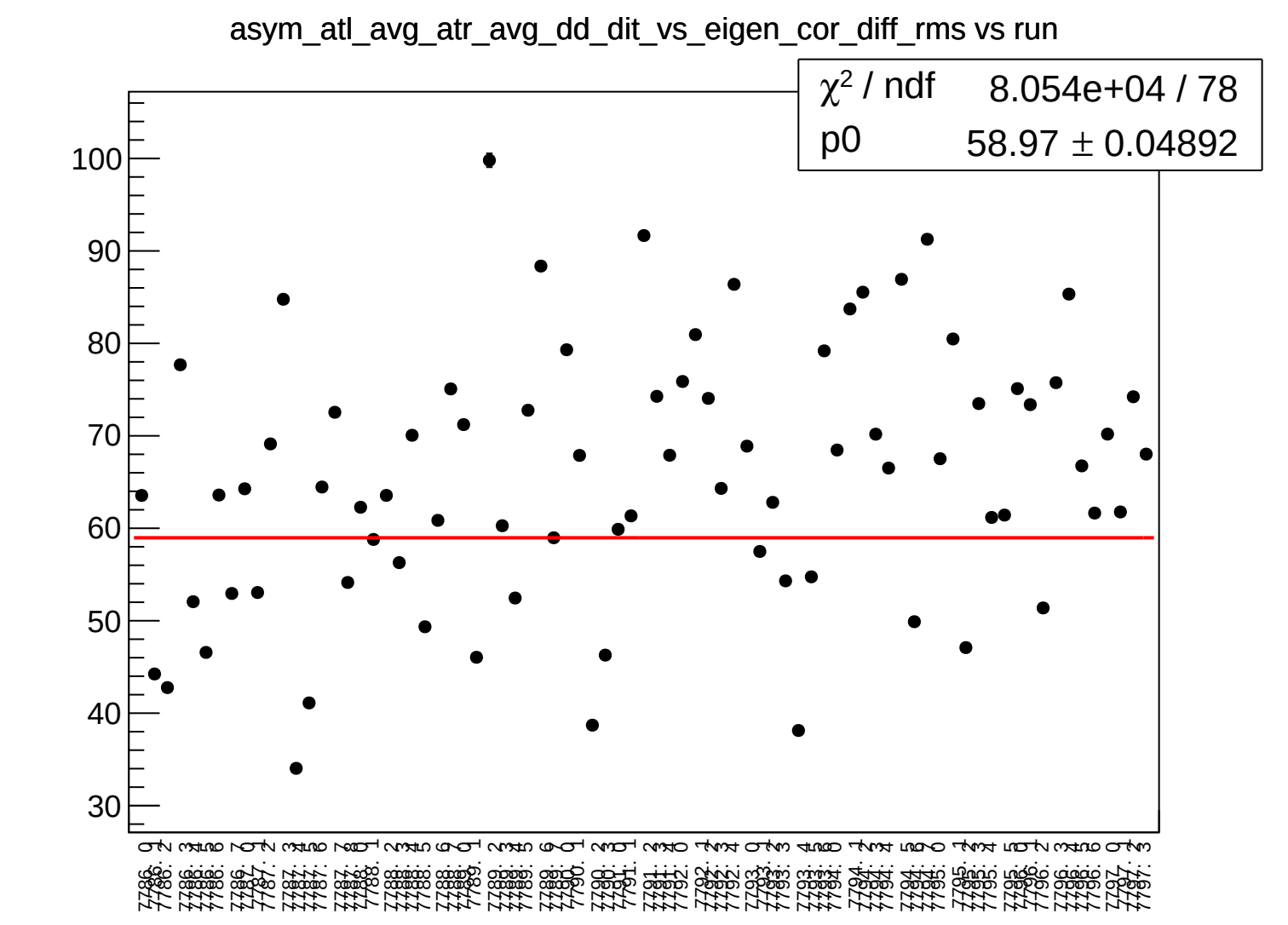

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.983e+05 / 78
p0 1.584e−10 ± 1.733e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

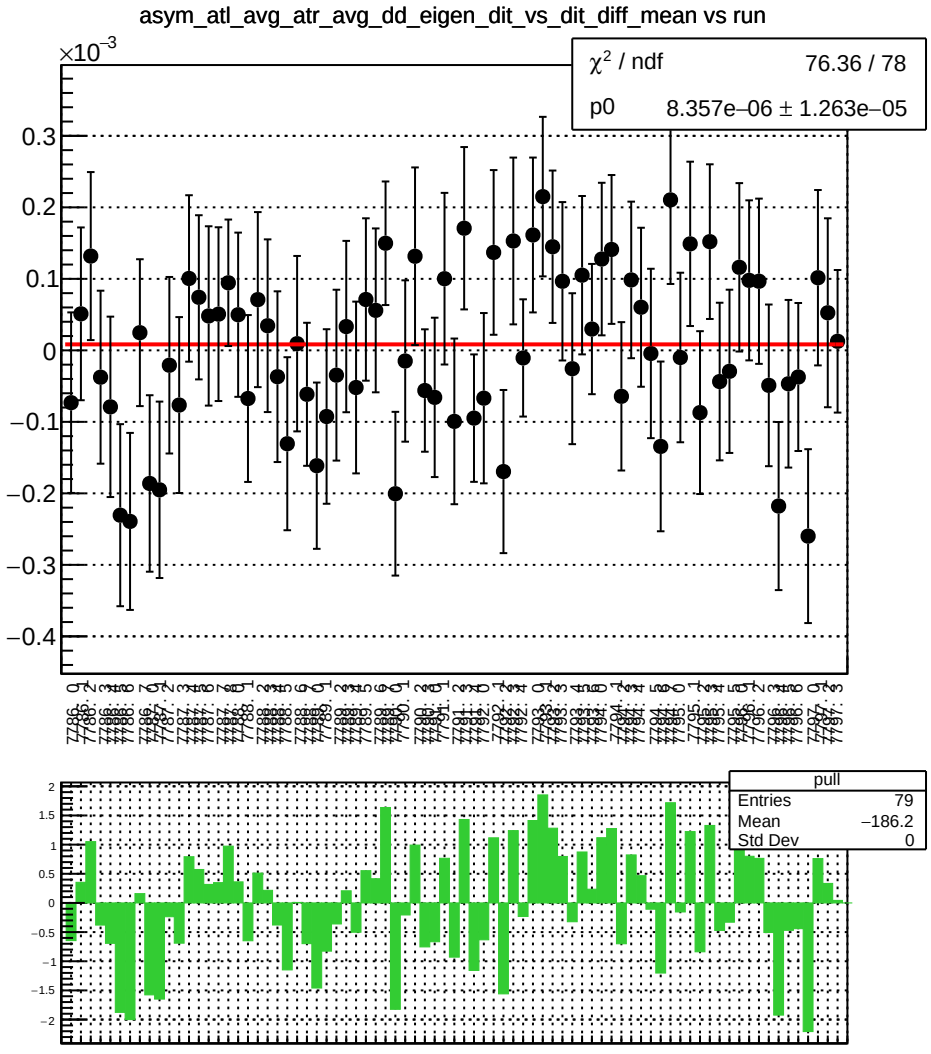

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.57 / 78
p0 −0.1213 ± 0.06918
pull
Entries 79
Mean −118.2
Std Dev 0

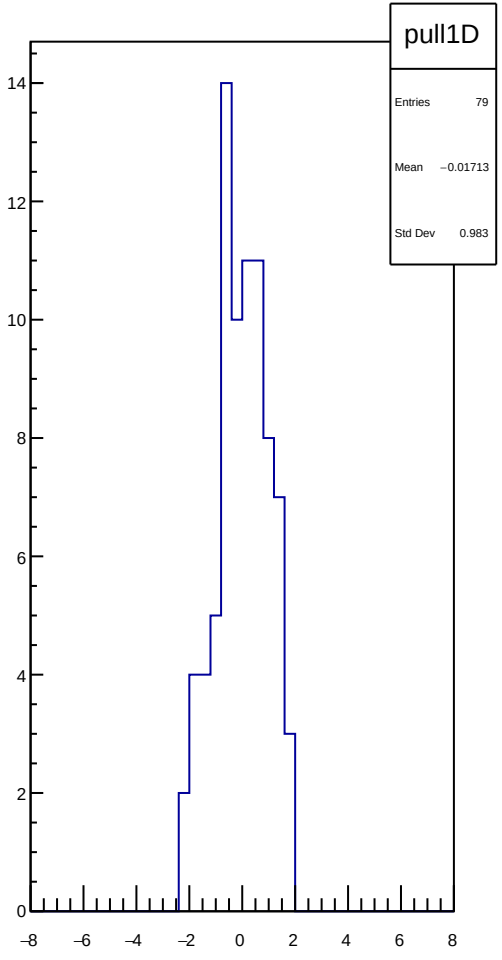

pull1D
Entries 79
Mean −0.02159
Std Dev 0.9648

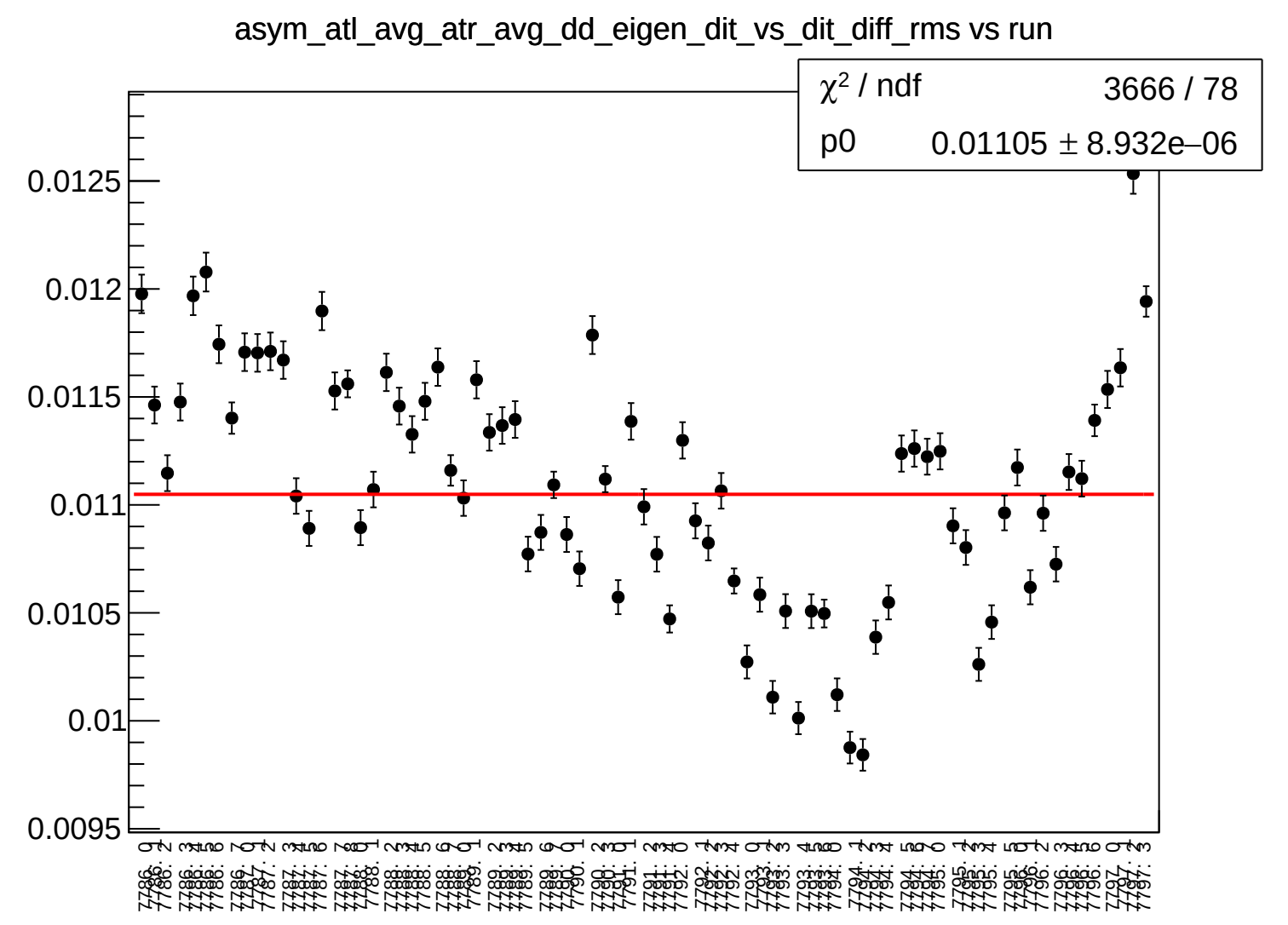

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.054e+04 / 78
p0 58.97 ± 0.04892
100
90
80
70
60
50
40
30

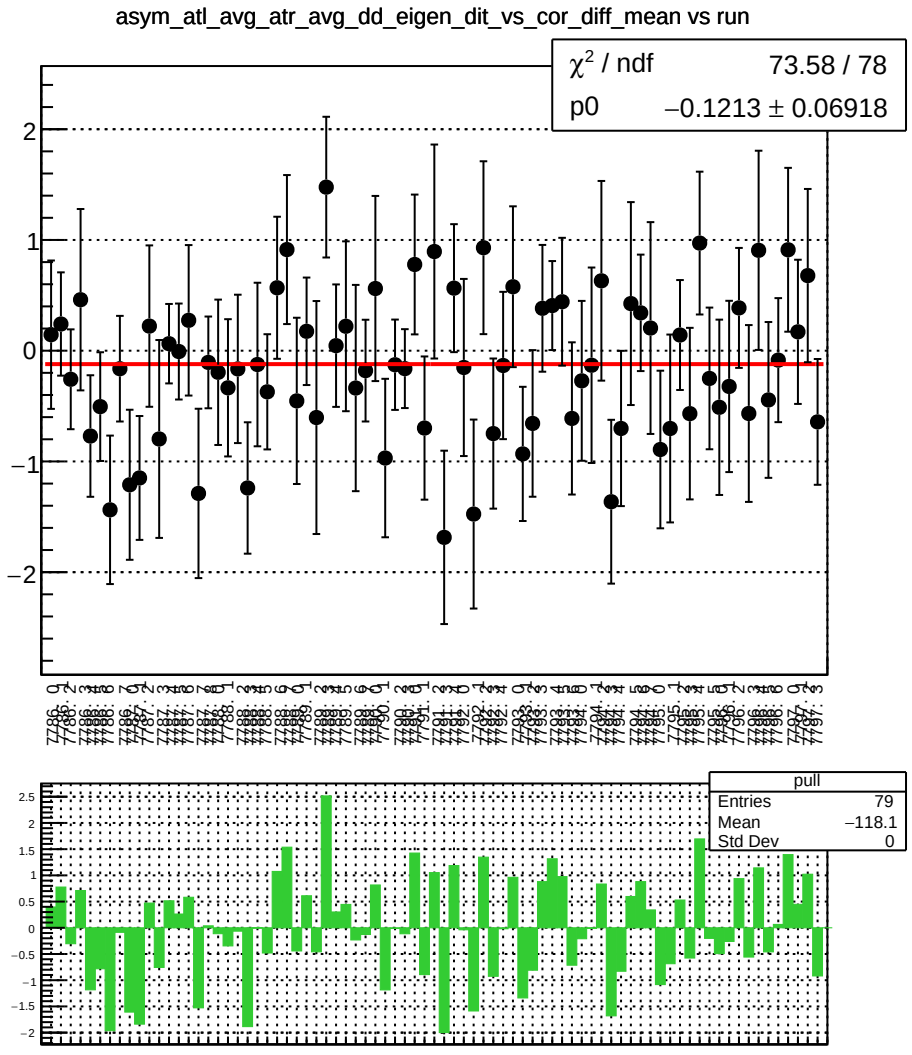

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.57 / 78
p0 −0.1213 ± 0.06918
pull
Entries 79
Mean −118.2
Std Dev 0
pull1D
Entries 79
Mean −0.02159
Std Dev 0.9648

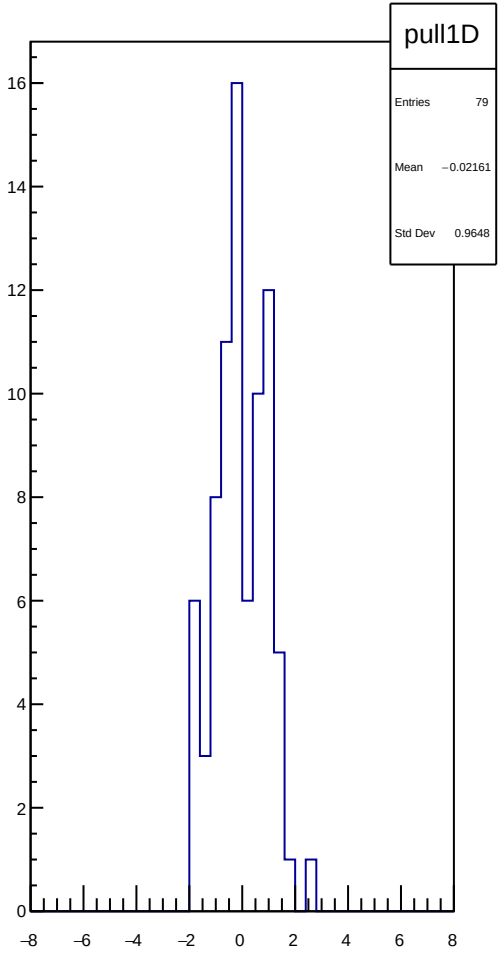

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.054e+04 / 78
p0 58.97 ± 0.04892
100
90
80
70
60
50
40
30

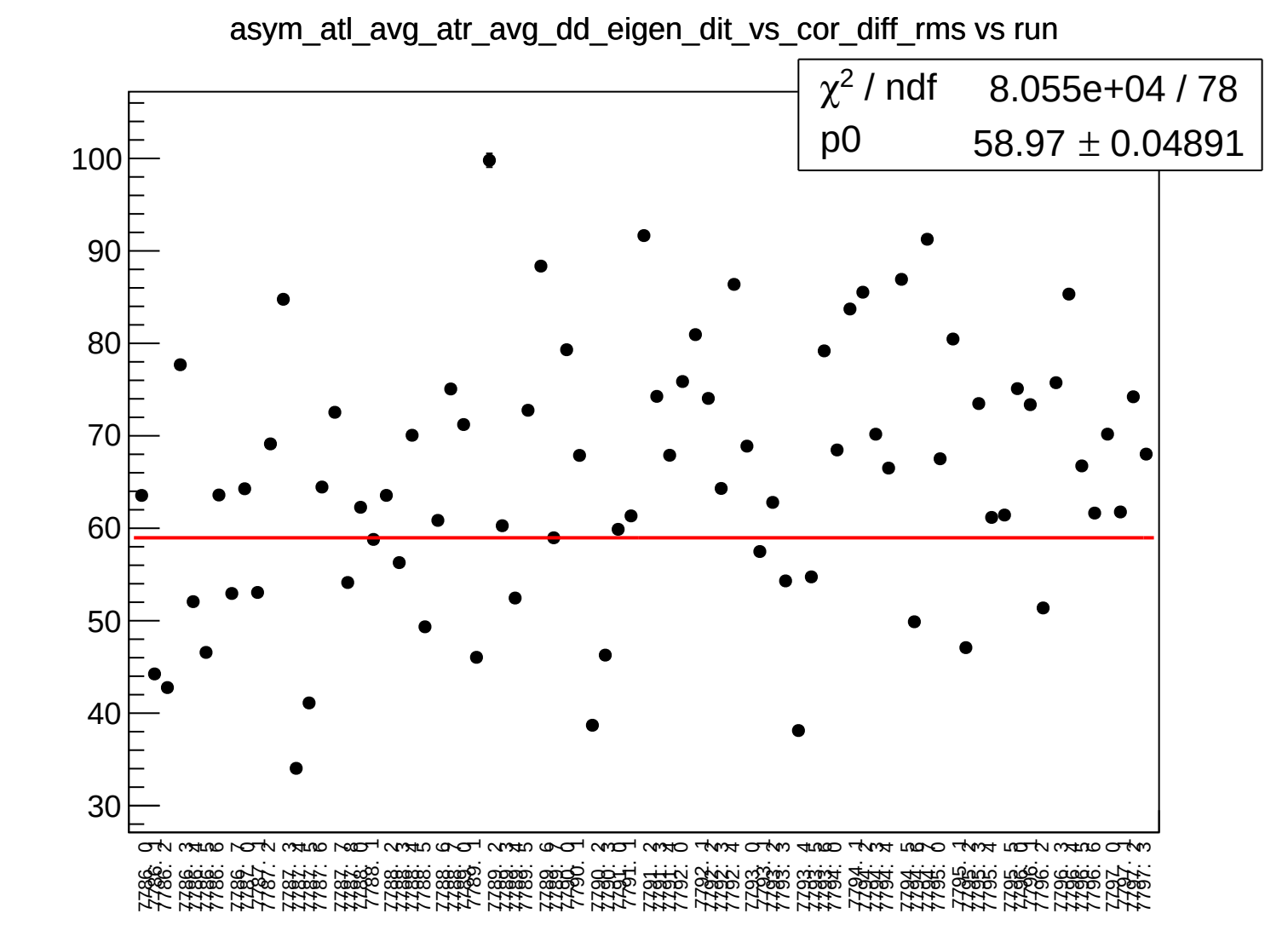

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.36 / 78
p0 8.357e−06 ± 1.263e−05
pull
Entries 79
Mean −186.2
Std Dev 0

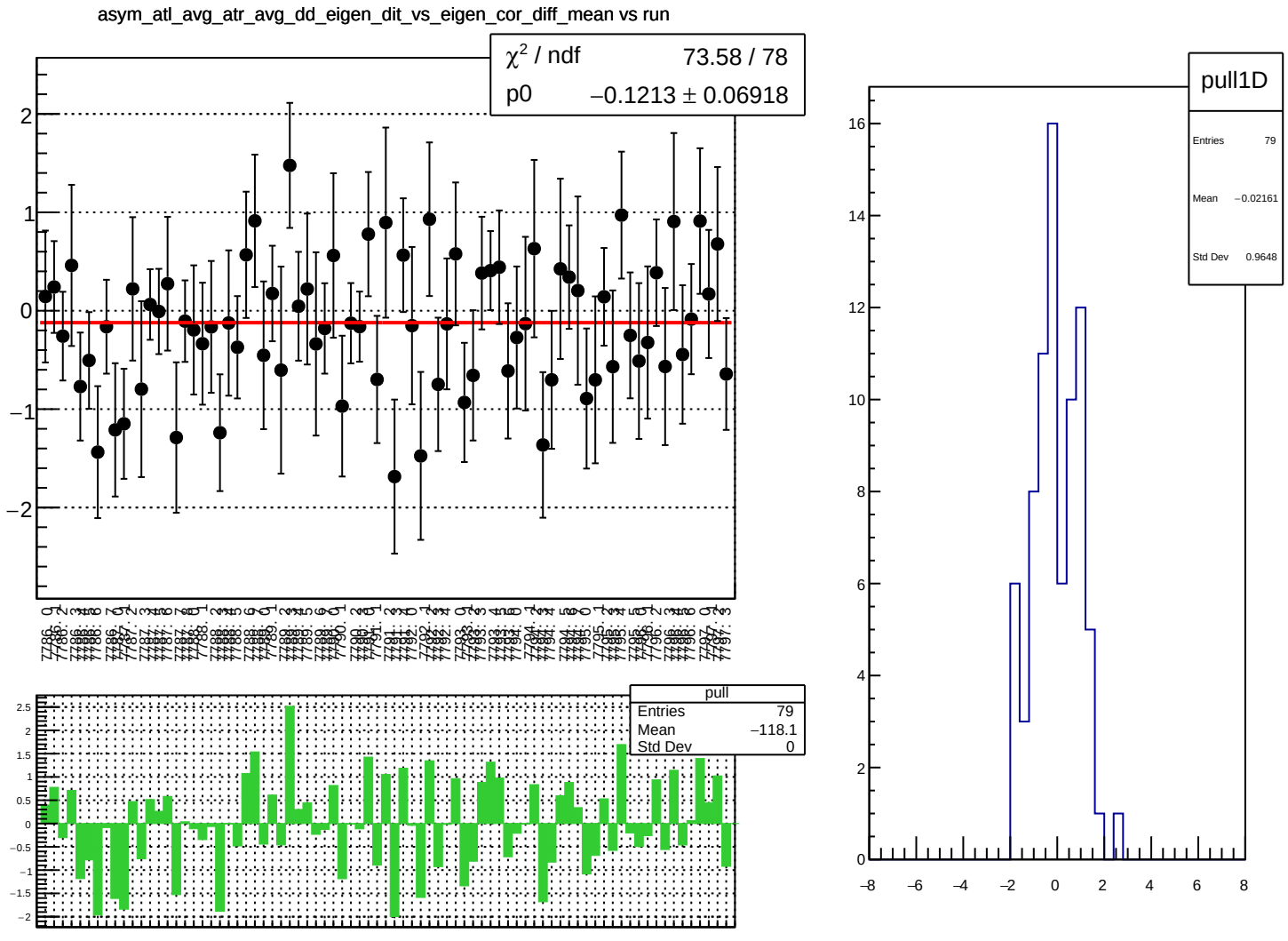

pull1D
Entries 79
Mean −0.01713
Std Dev 0.983

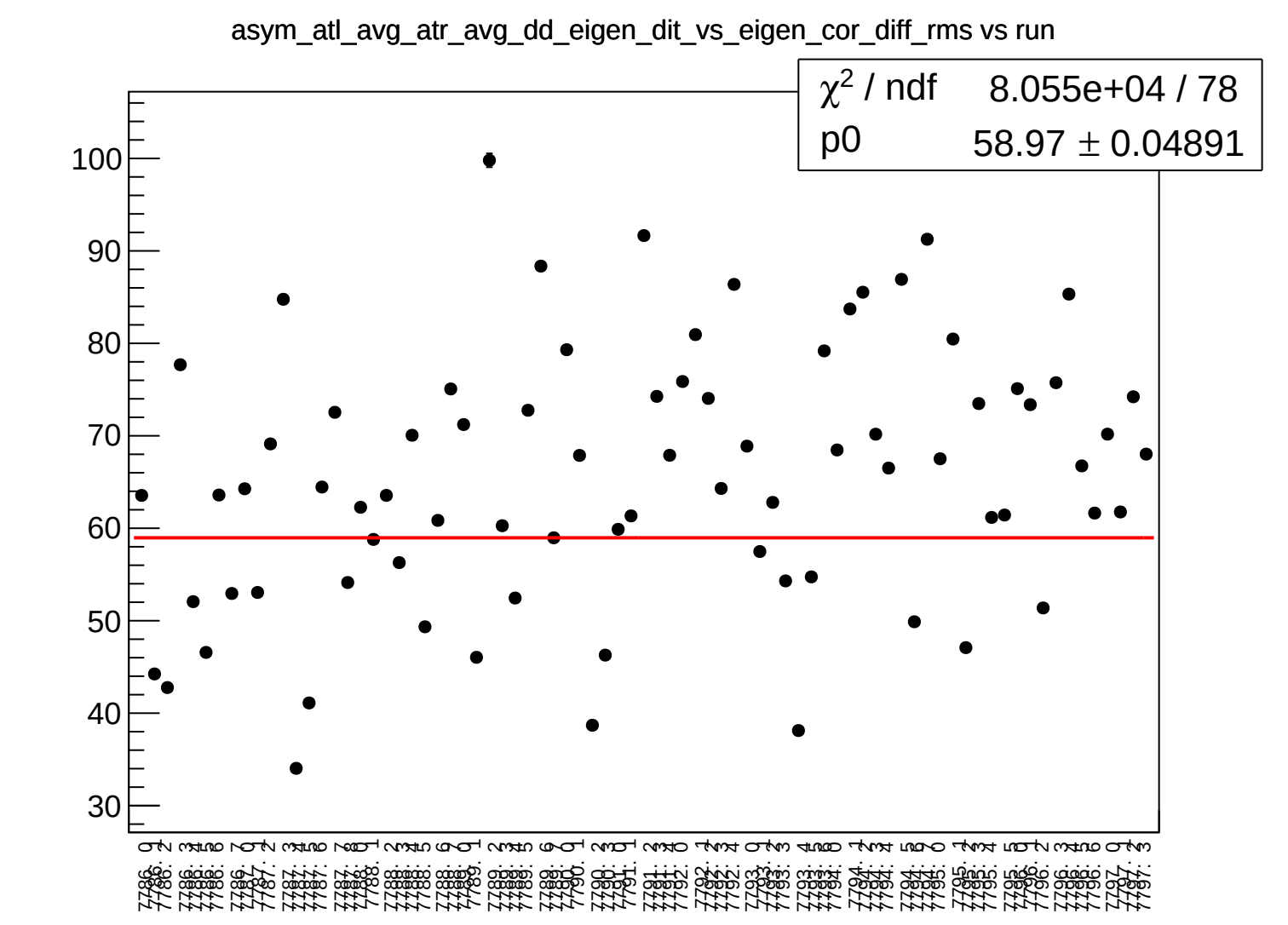

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3666 / 78
p0 0.01105 ± 8.932e–06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

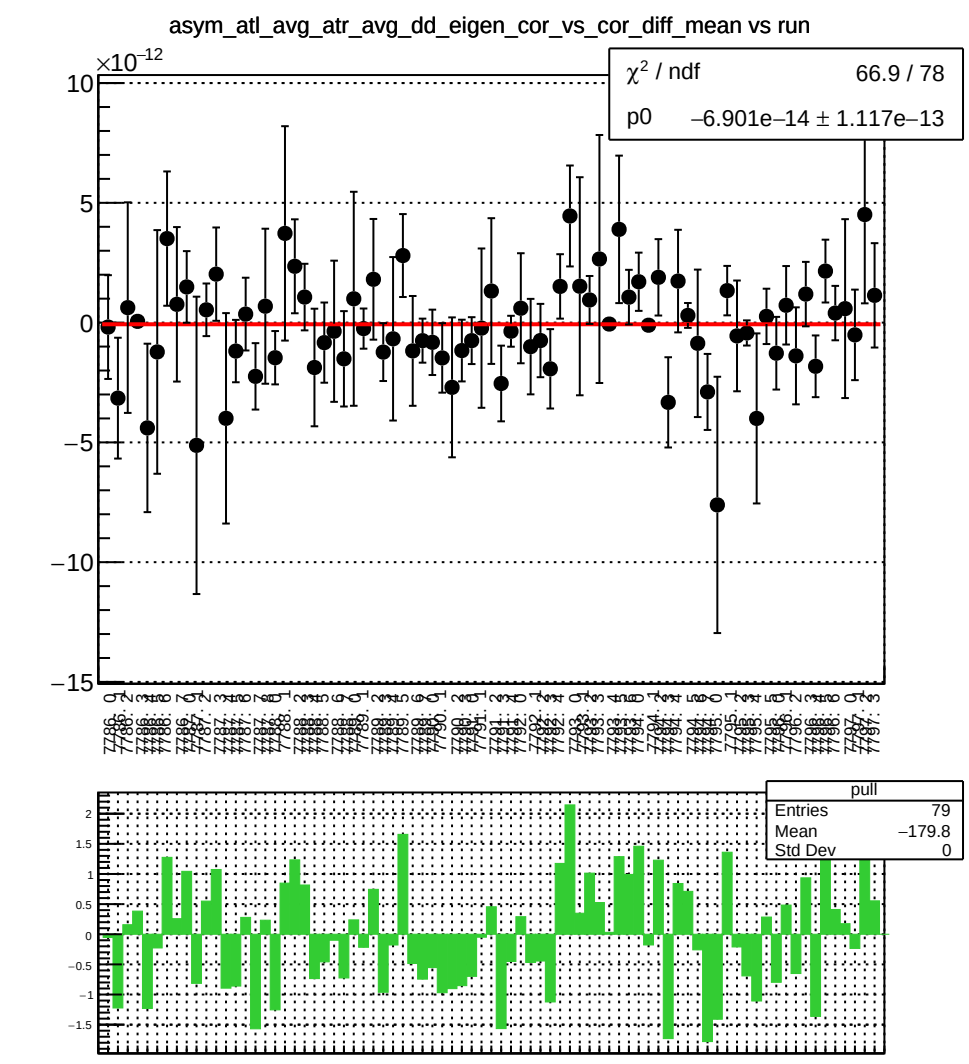

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.58 / 78
p0 −0.1213 ± 0.06918
pull
Entries 79
Mean −118.1
Std Dev 0

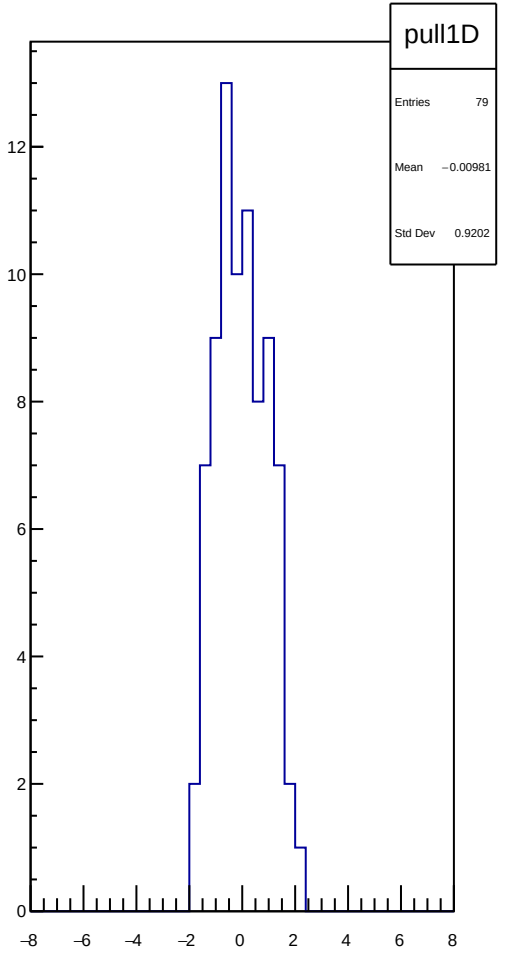

pull1D
Entries 79
Mean −0.02161
Std Dev 0.9648

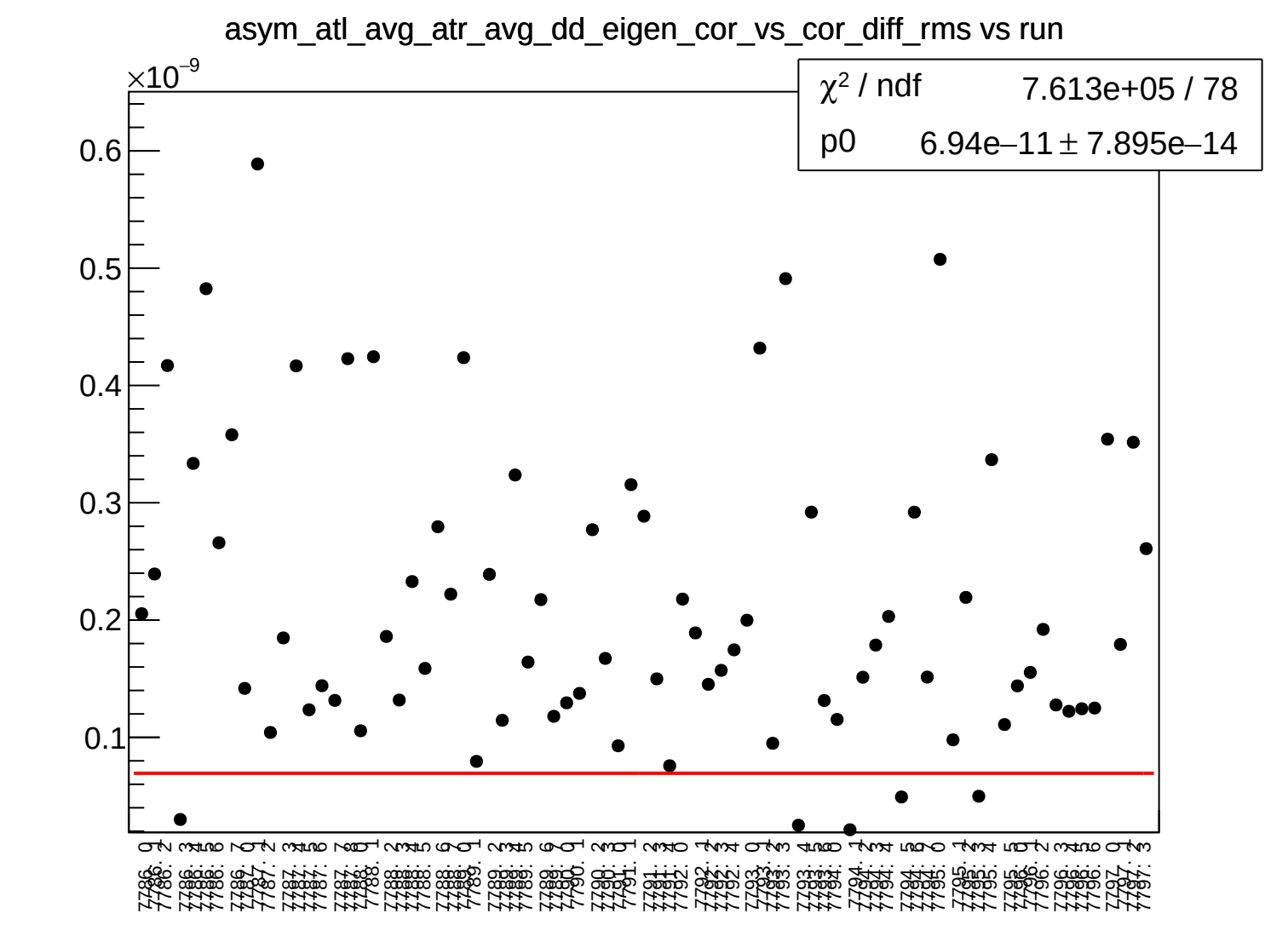

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.055e+04 / 78
p0 58.97 ± 0.04891
100
90
80
70
60
50
40
30

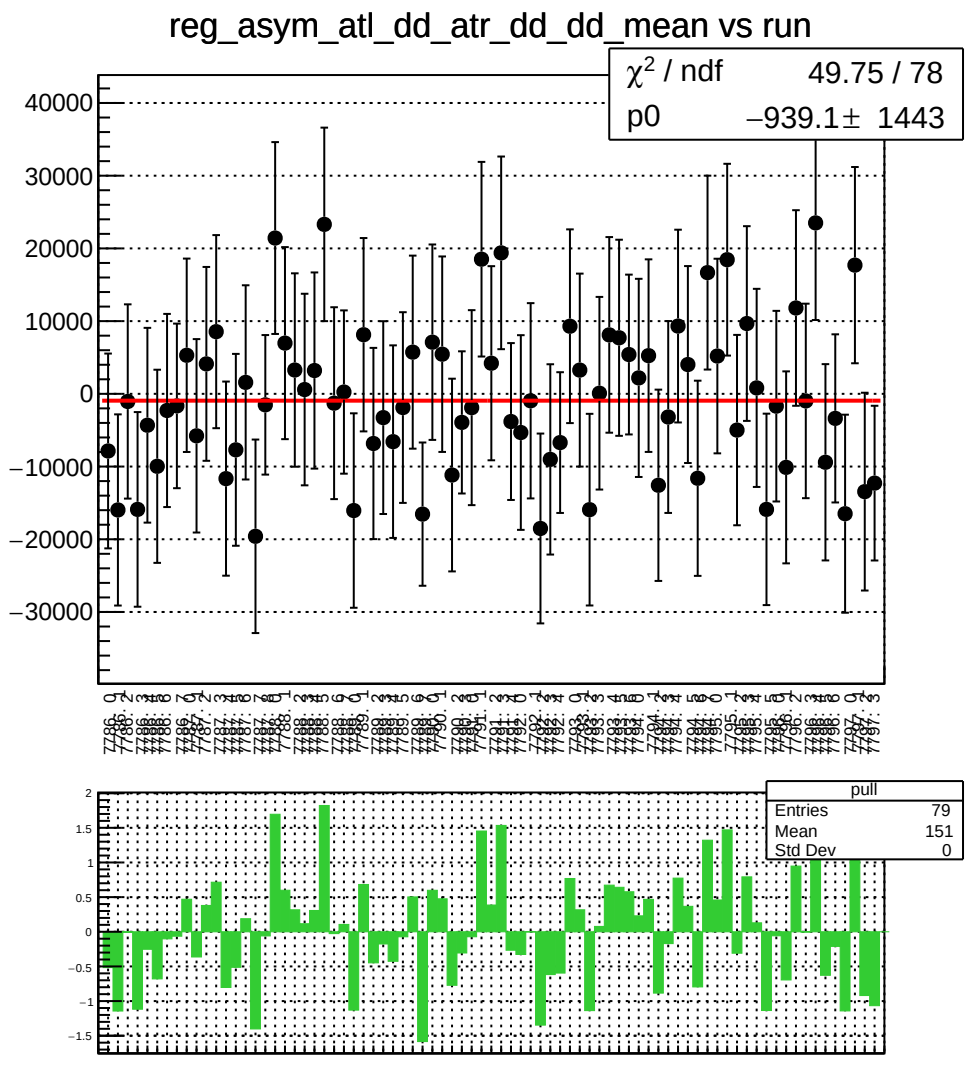

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.58 / 78
p0 −0.1213 ± 0.06918
pull
Entries 79
Mean −118.1
Std Dev 0
pull1D
Entries 79
Mean −0.02161
Std Dev 0.9648

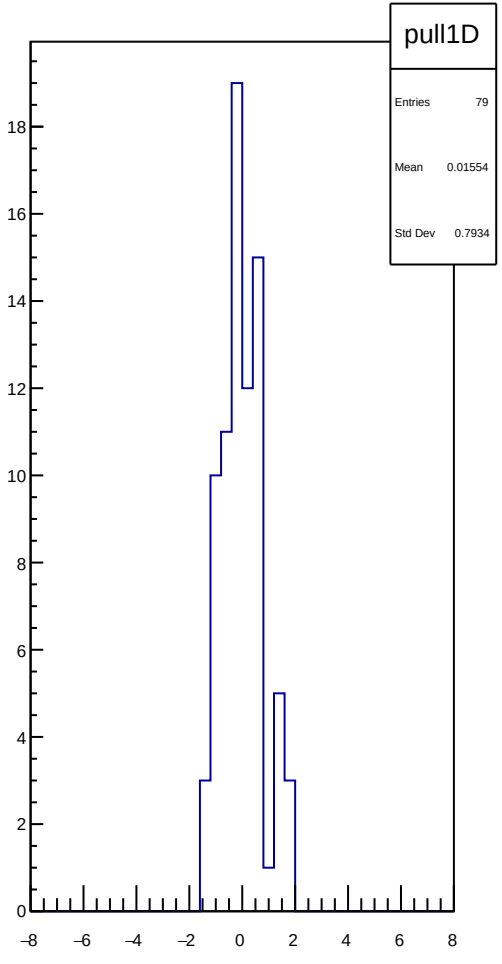

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.055e+04 / 78
p0 58.97 ± 0.04891
100
90
80
70
60
50
40
30

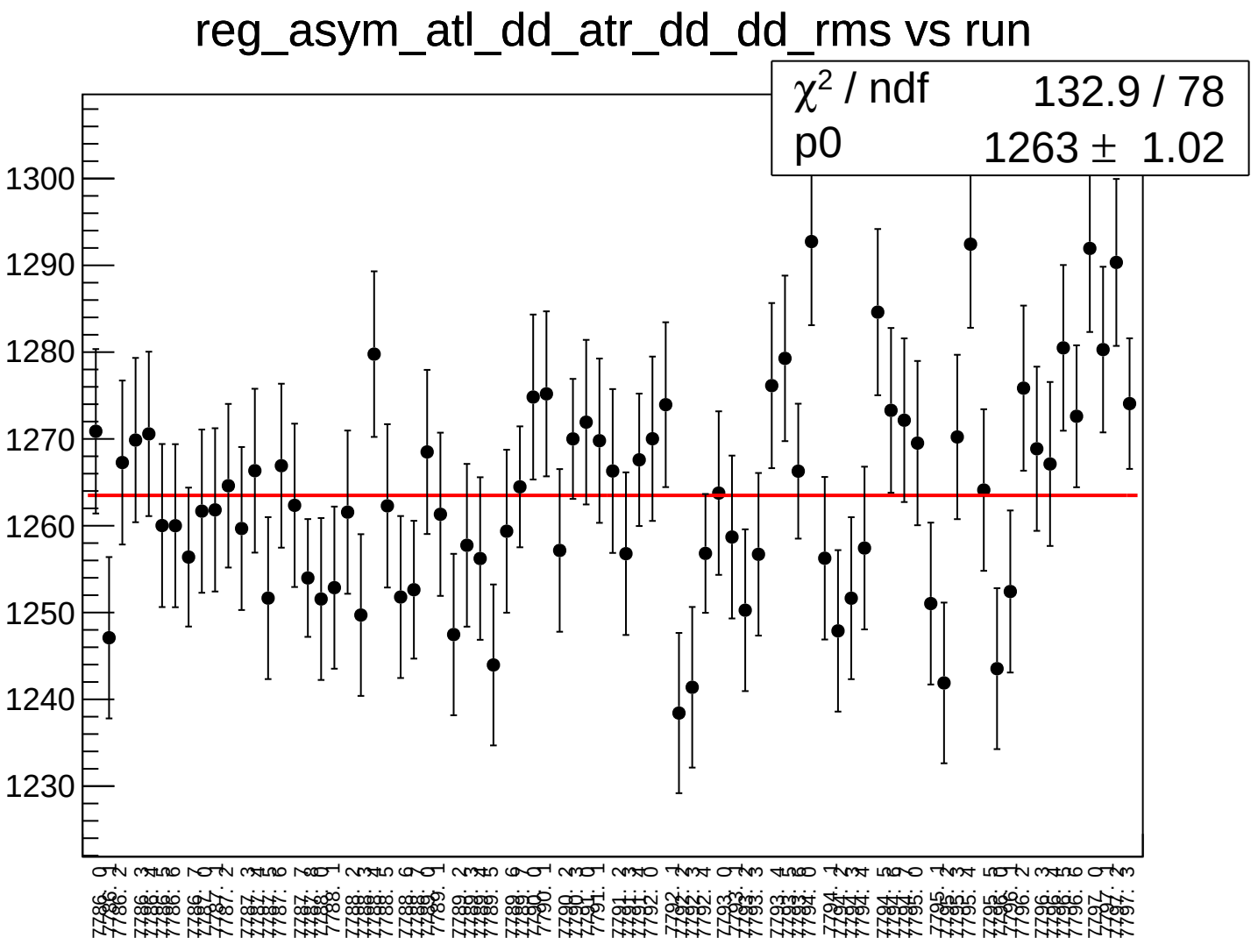

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.9 / 78
p0 −6.901e−14 ± 1.117e−13
pull
Entries 79
Mean −179.8
Std Dev 0

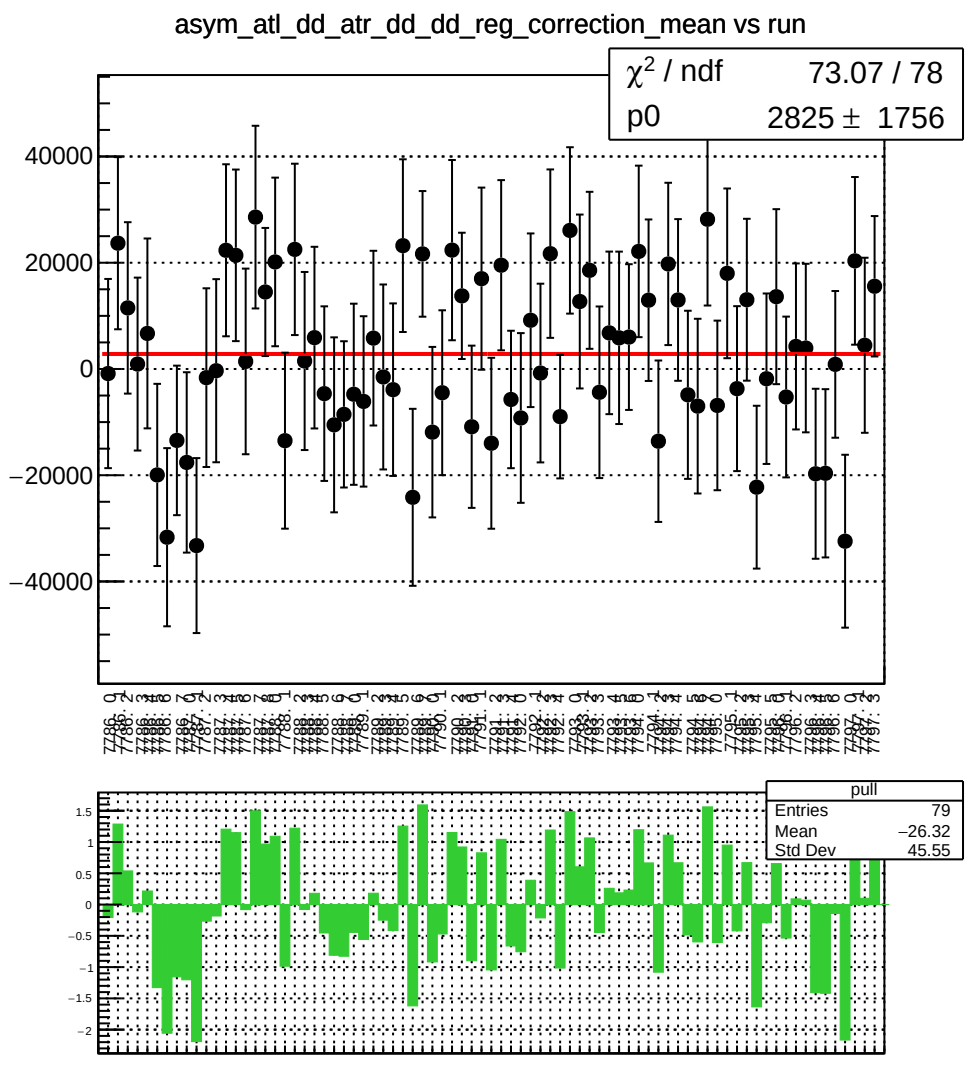

pull1D
Entries 79
Mean −0.00981
Std Dev 0.9202

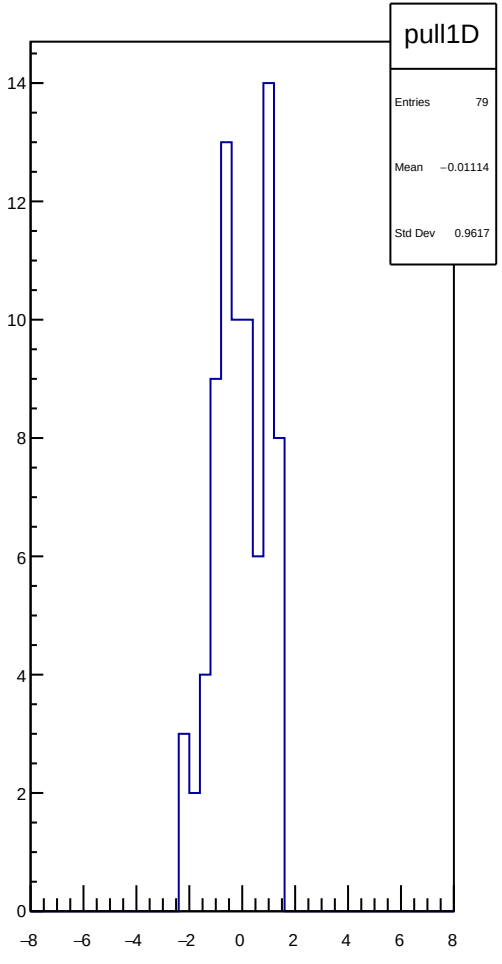

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.613e+05 / 78
p0 6.94e−11 ± 7.895e−14
0.6
0.5
0.4
0.3
0.2
0.1

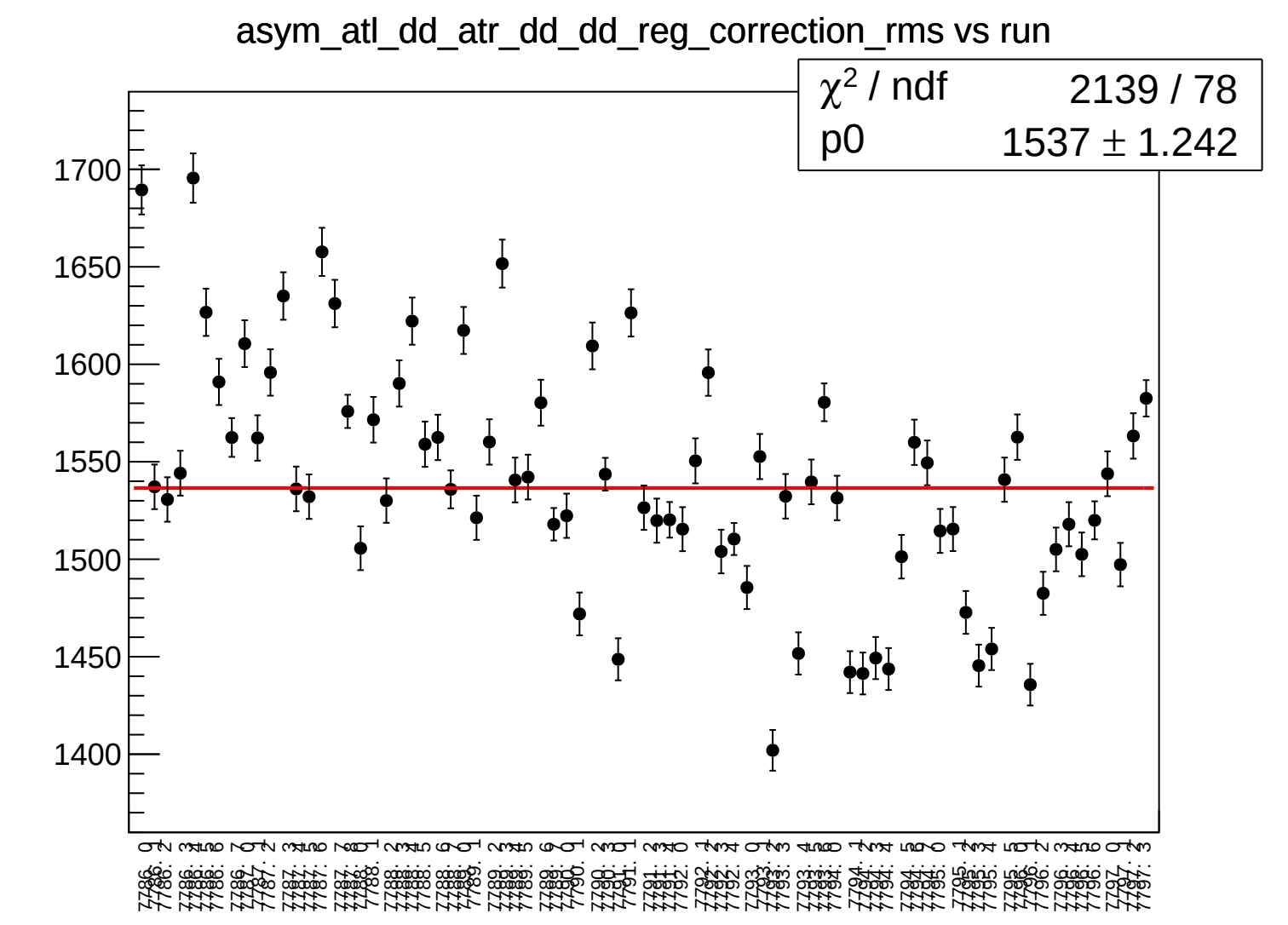

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 49.75 / 78
p0 −939.1± 1443
pull
Entries 79
Mean 151
Std Dev 0

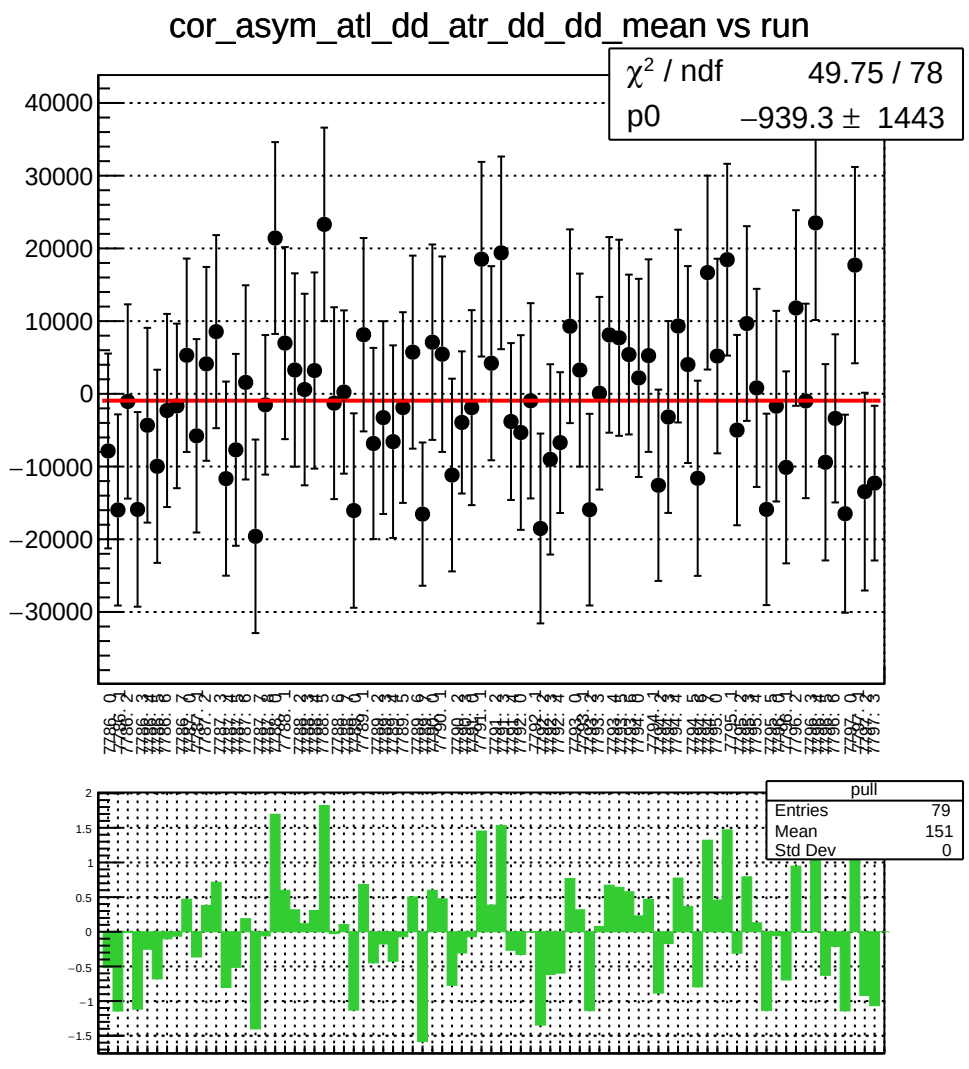

pull1D
Entries 79
Mean 0.01554
Std Dev 0.7934

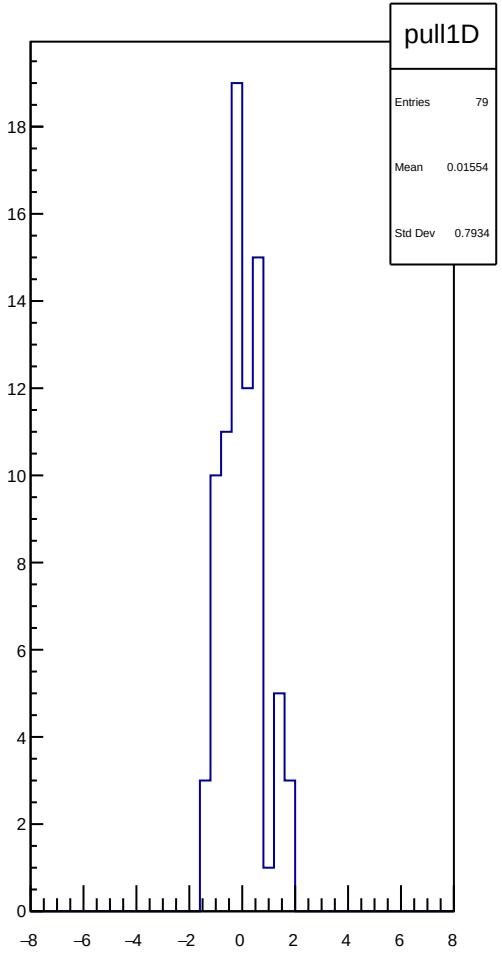

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 132.9 / 78
p0 1263 ± 1.02
1300
1290
1280
1270
1260
1250
1240
1230

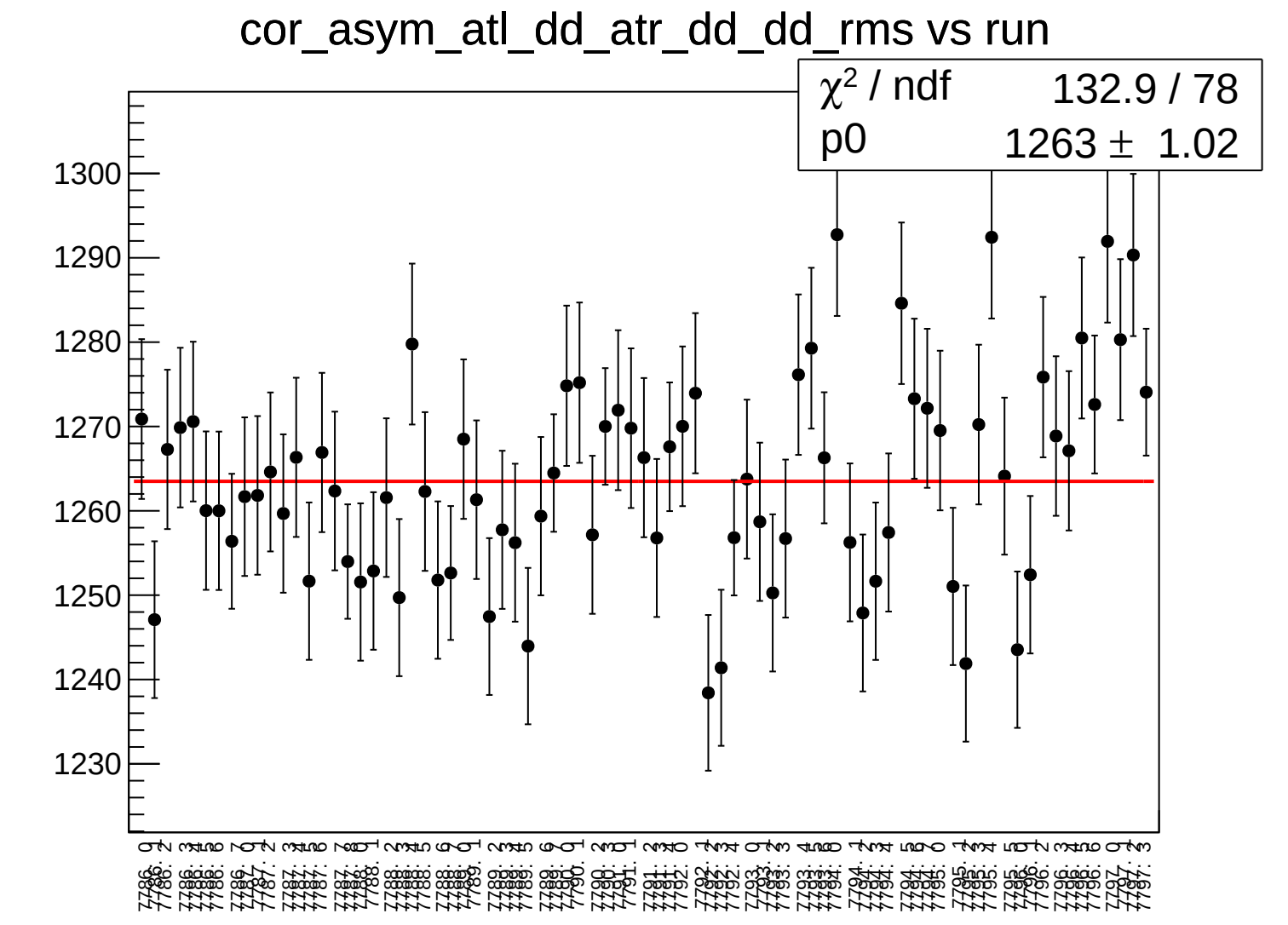

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 73.07 / 78
p0 2825 ± 1756
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −26.32
Std Dev 45.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2

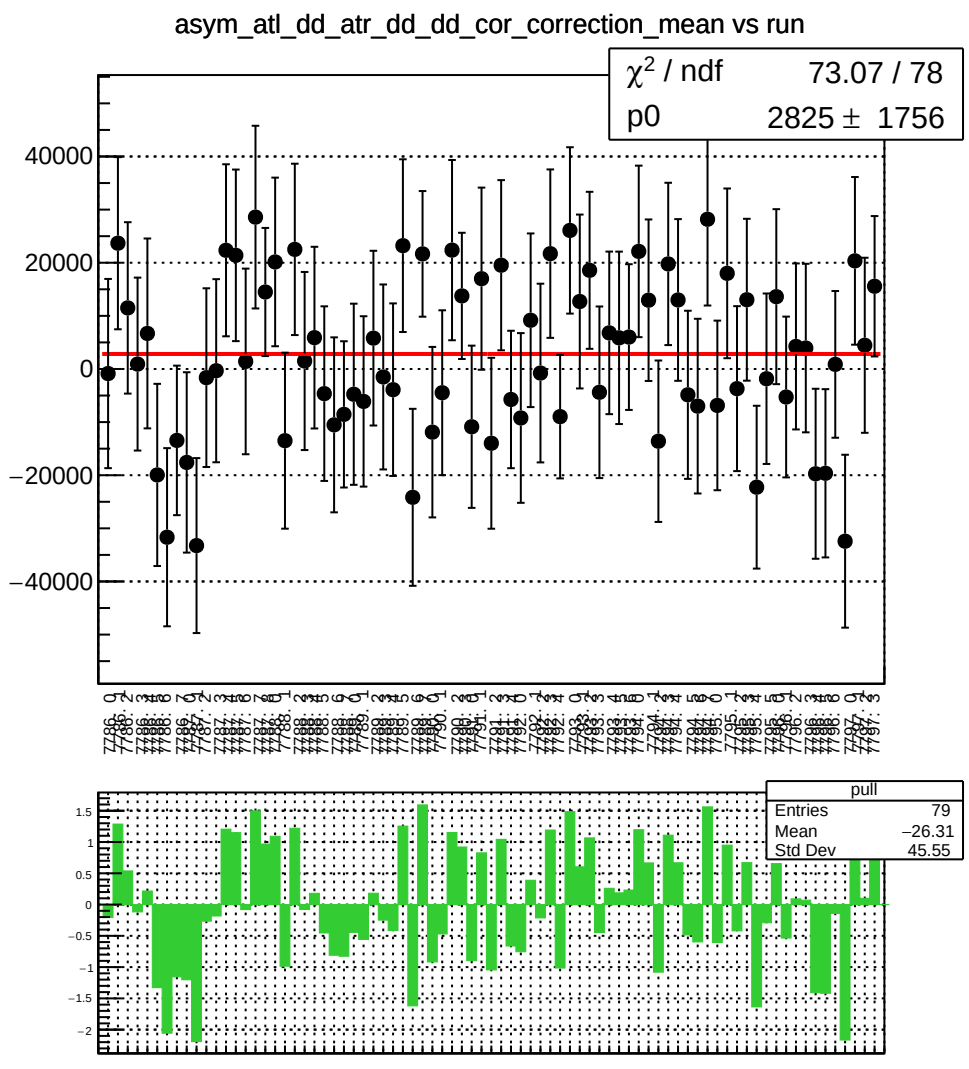

pull1D
Entries 79
Mean −0.01114
Std Dev 0.9617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

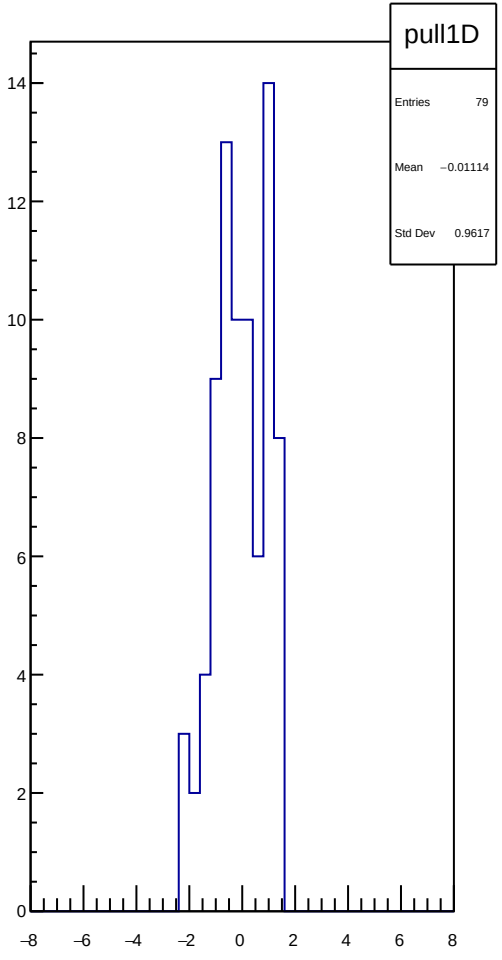

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2139 / 78
p0 1537 ± 1.242
1700
1650
1600
1550
1500
1450
1400

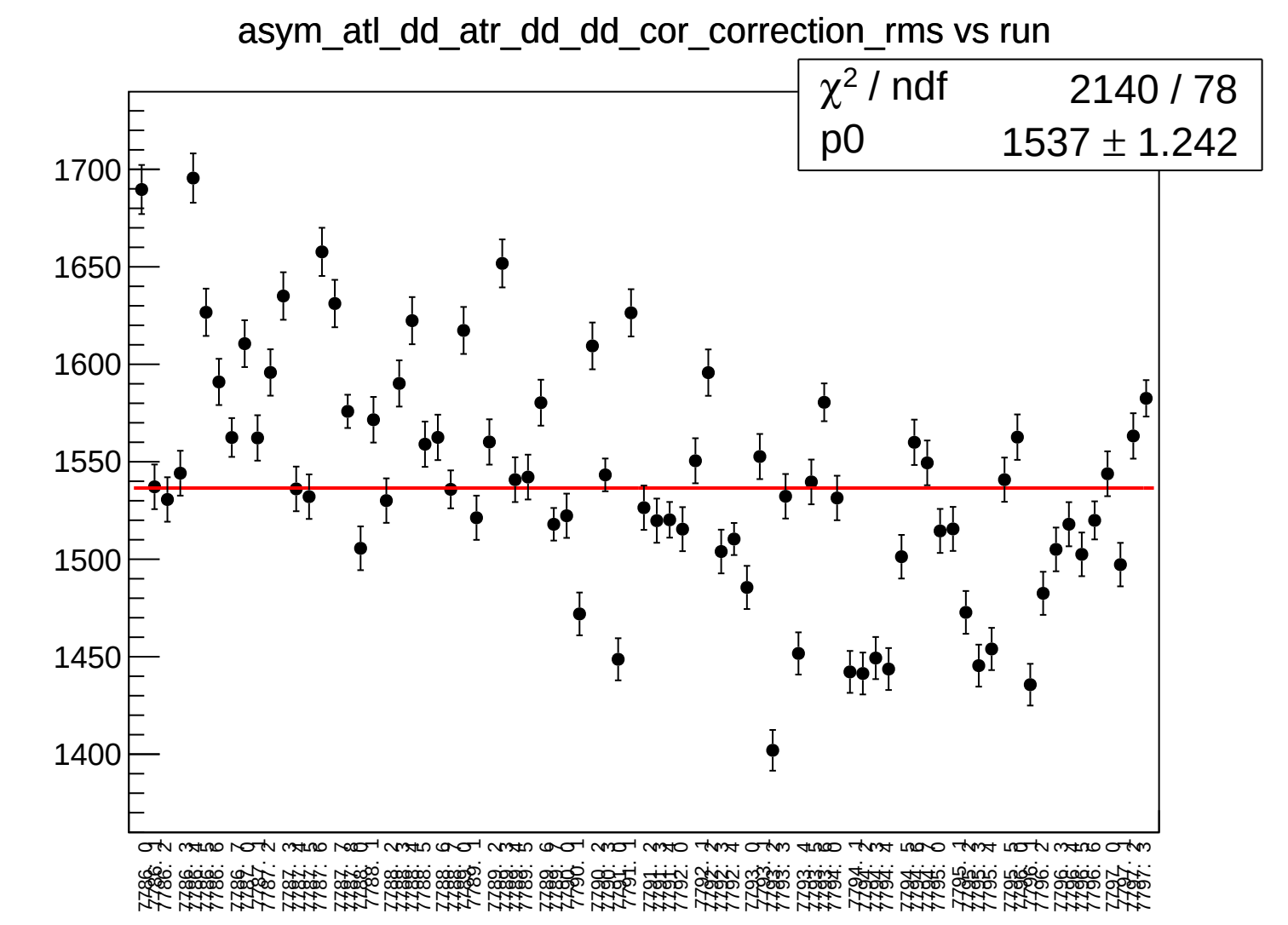

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 49.75 / 78
p0 −939.3 ± 1443
pull
Entries 79
Mean 151
Std Dev 0

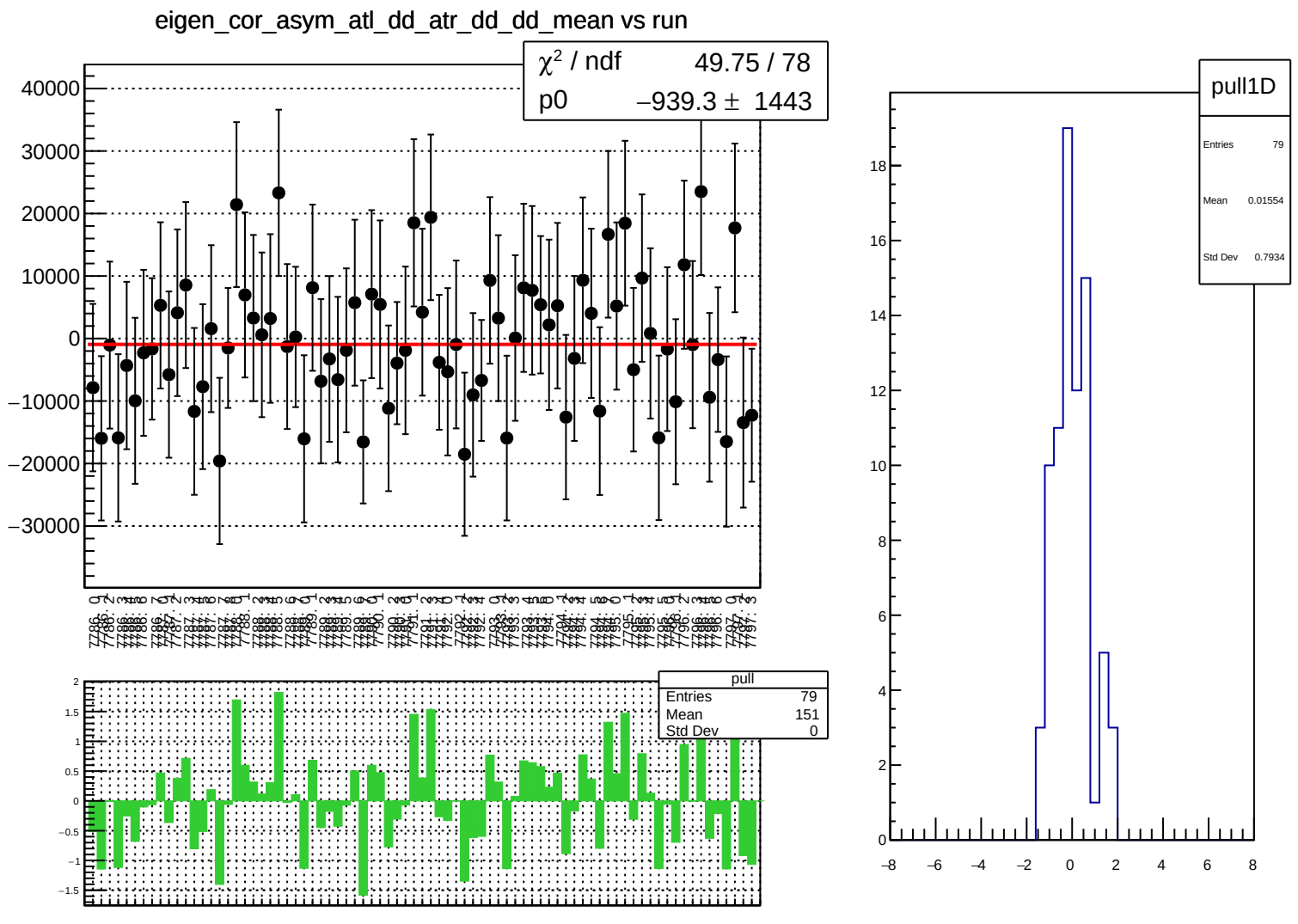

pull1D
Entries 79
Mean 0.01554
Std Dev 0.7934

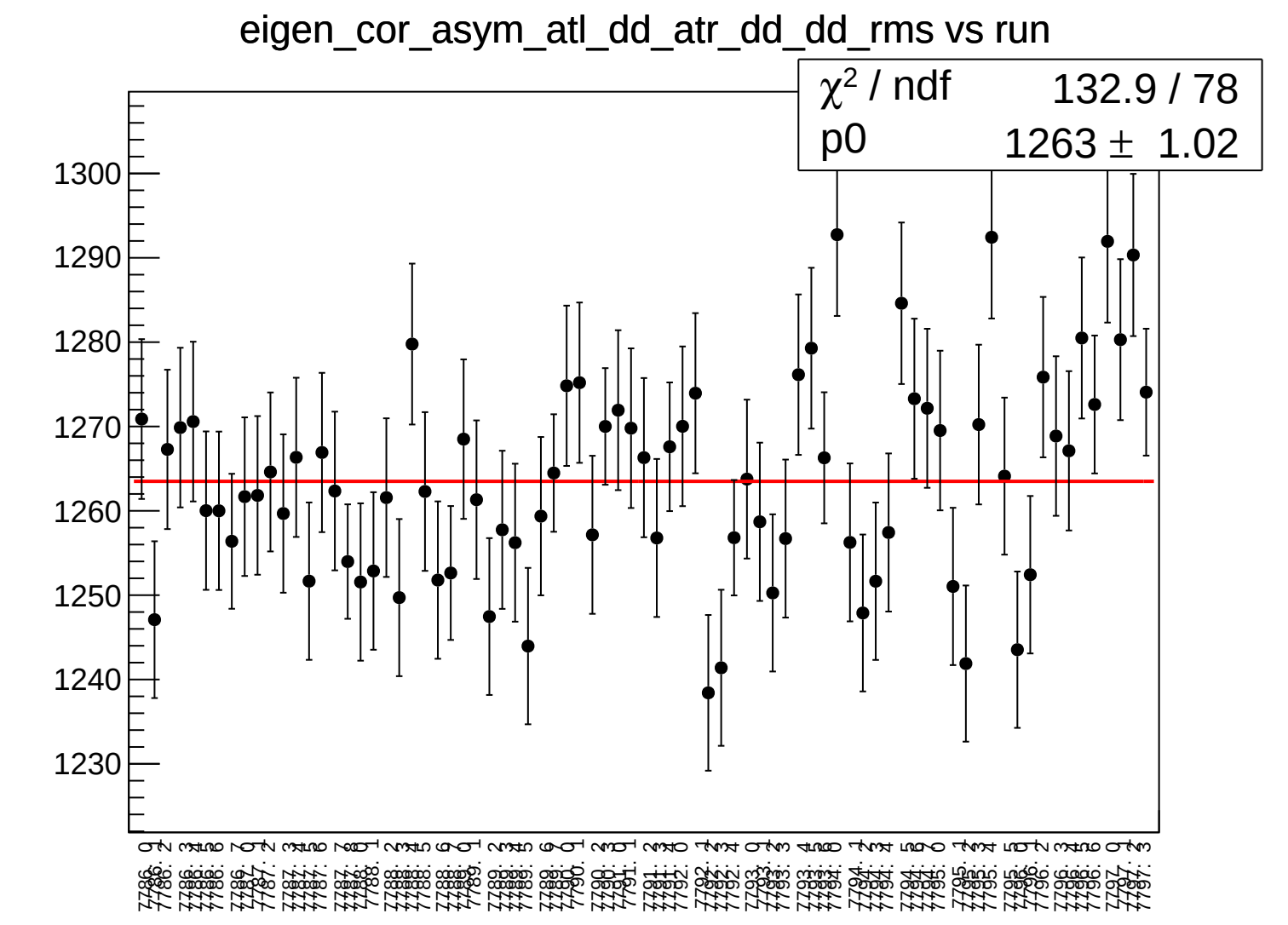

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 132.9 / 78
p0 1263 ± 1.02
1300
1290
1280
1270
1260
1250
1240
1230

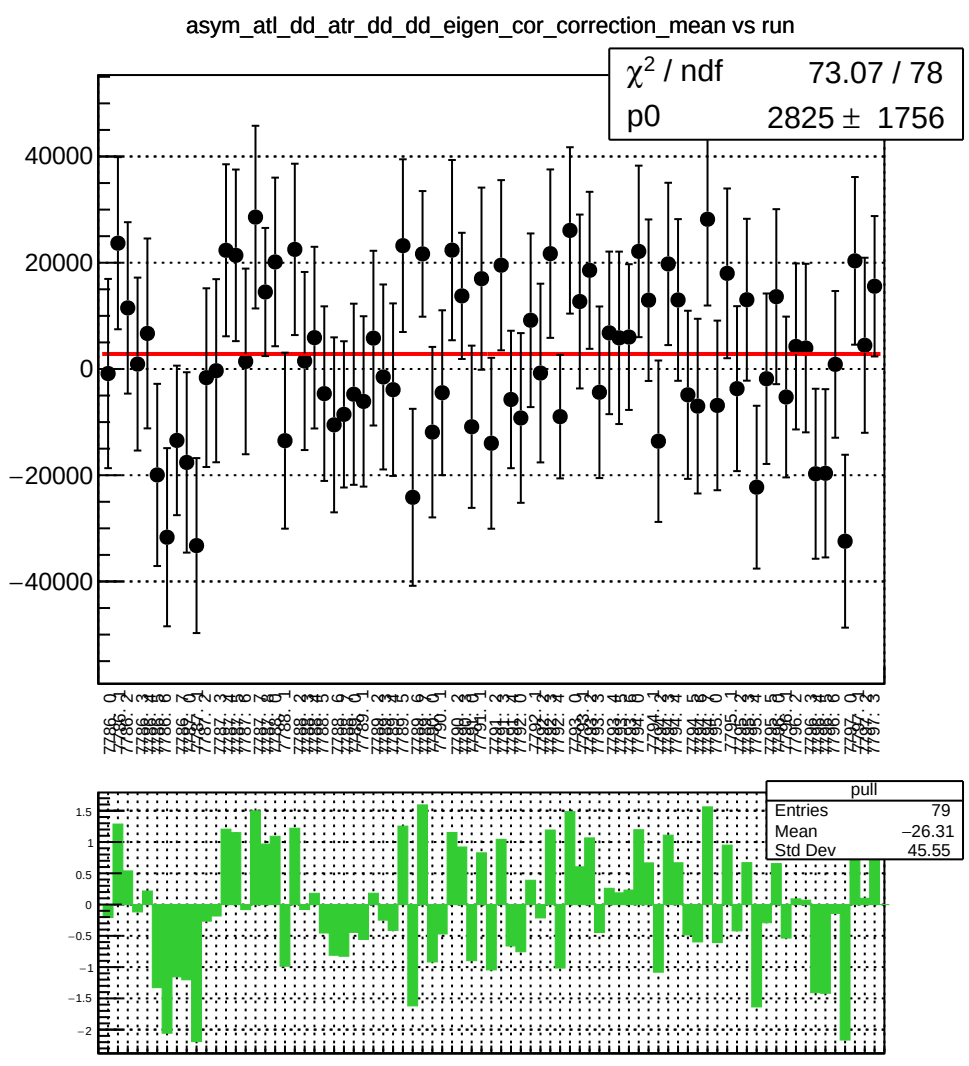

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 73.07 / 78
p0 2825 ± 1756
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −26.31
Std Dev 45.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2

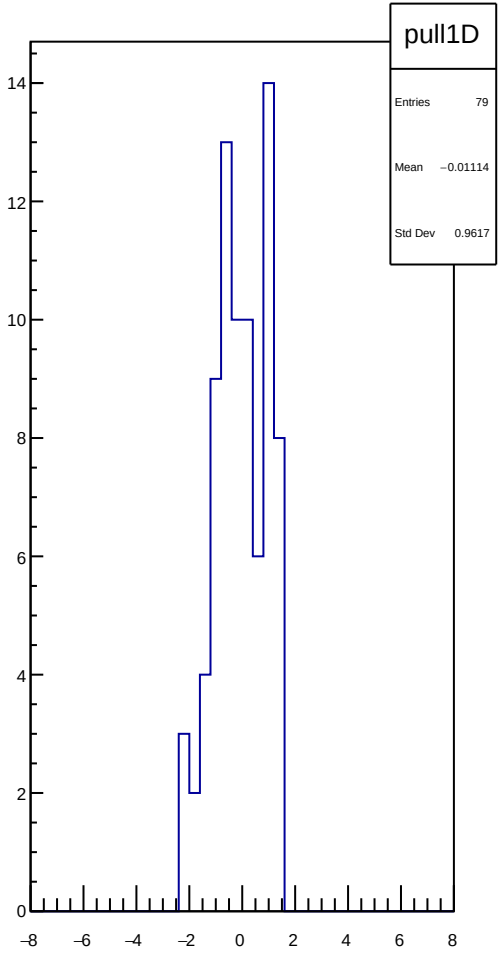

pull1D
Entries 79
Mean −0.01114
Std Dev 0.9617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

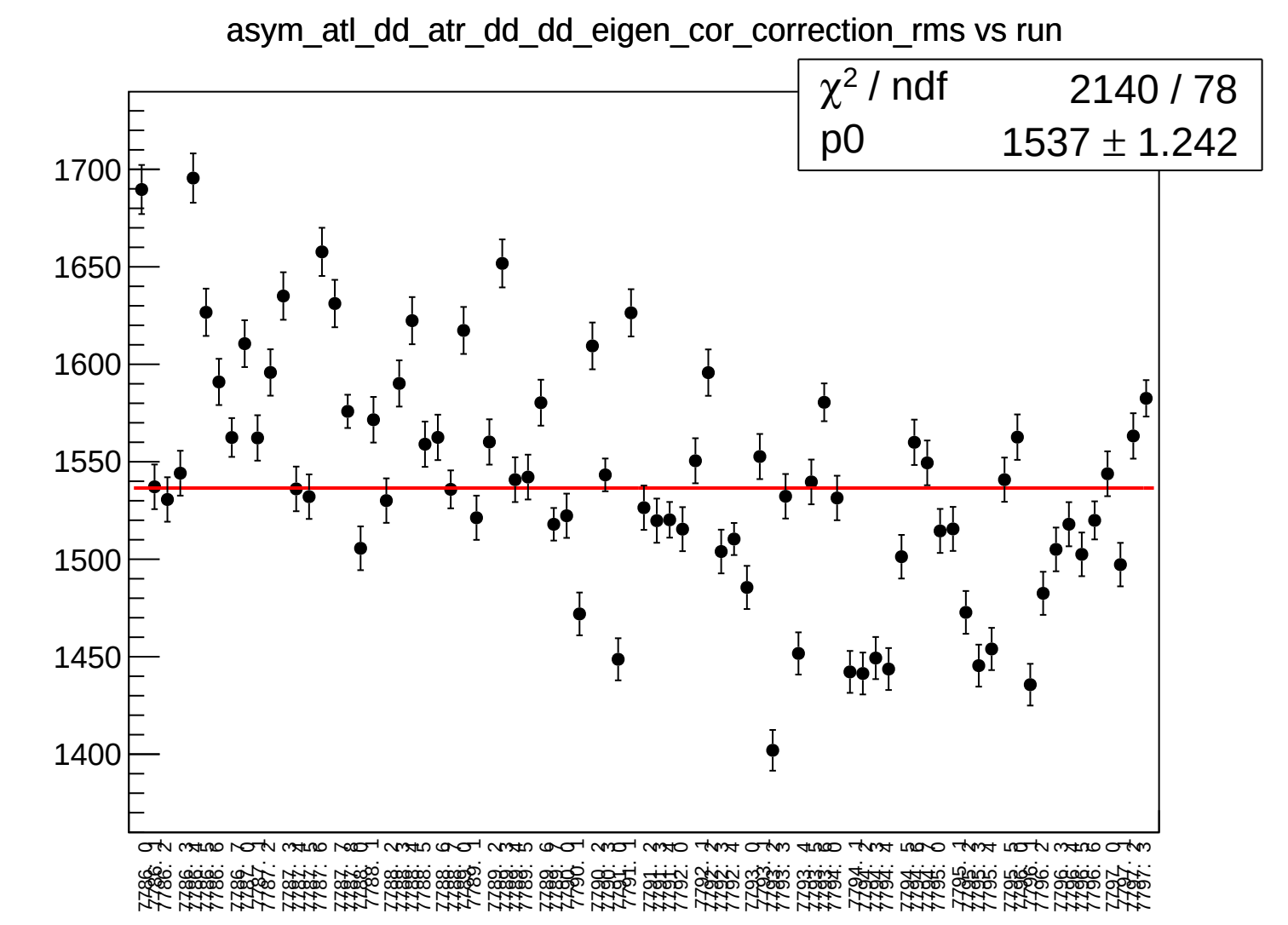

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2140 / 78
p0 1537 ± 1.242
1700
1650
1600
1550
1500
1450
1400

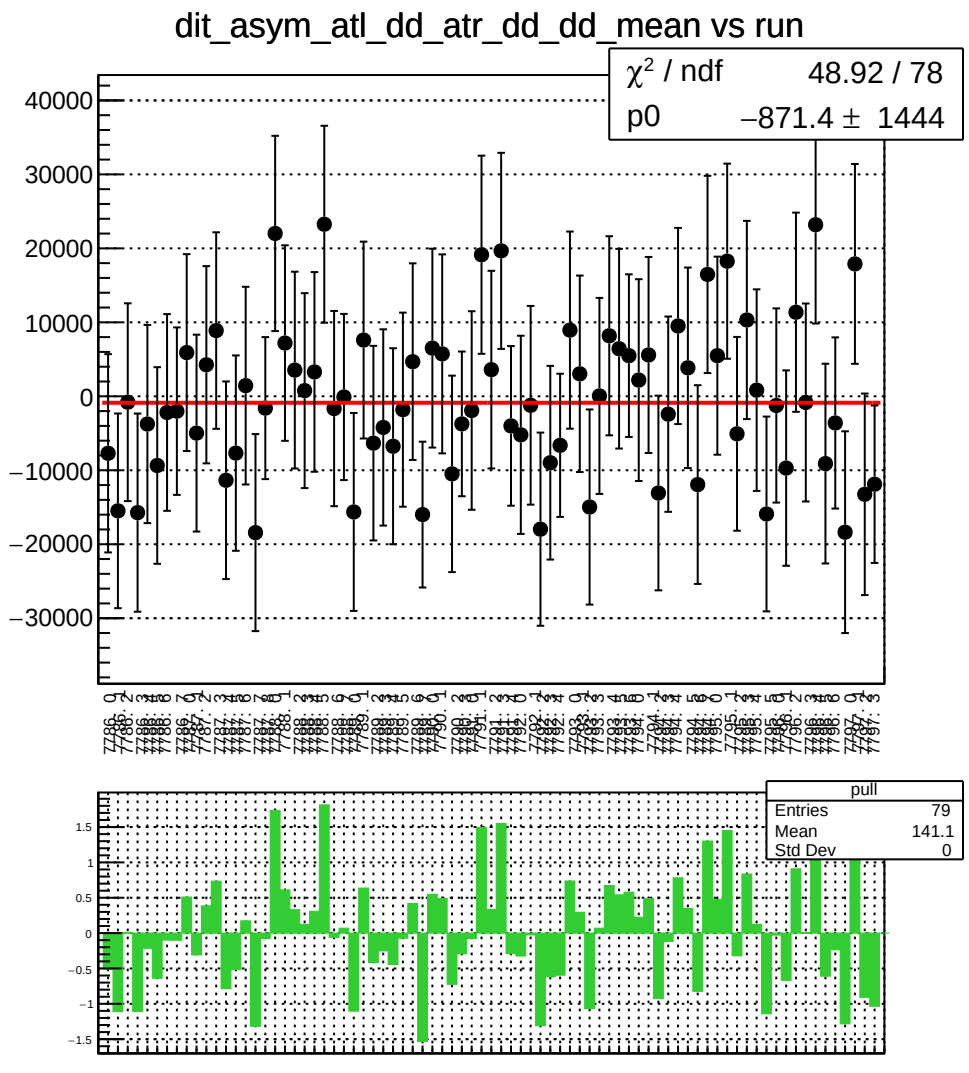

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 49.75 / 78
p0 −939.3 ± 1443
pull
Entries 79
Mean 151
Std Dev 0
pull1D
Entries 79
Mean 0.01554
Std Dev 0.7934

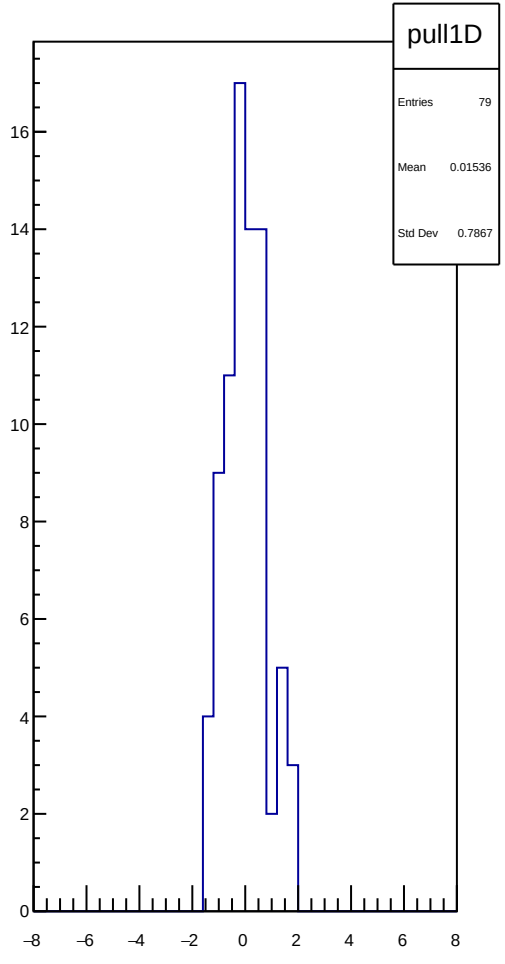

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 132.9 / 78
p0 1263 ± 1.02
1300
1290
1280
1270
1260
1250
1240
1230

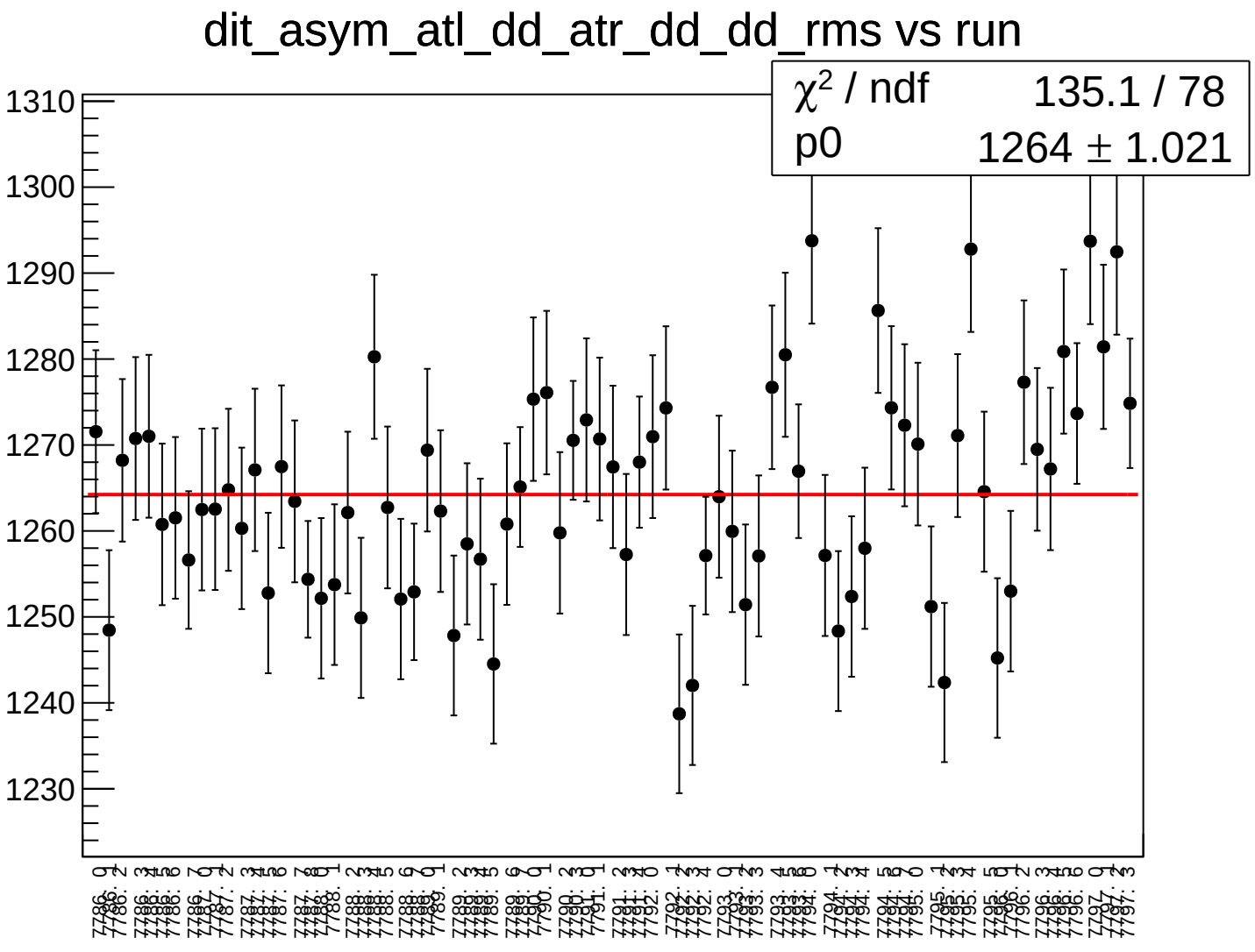

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.07 / 78
p0 2825 ± 1756
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −26.31
Std Dev 45.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2

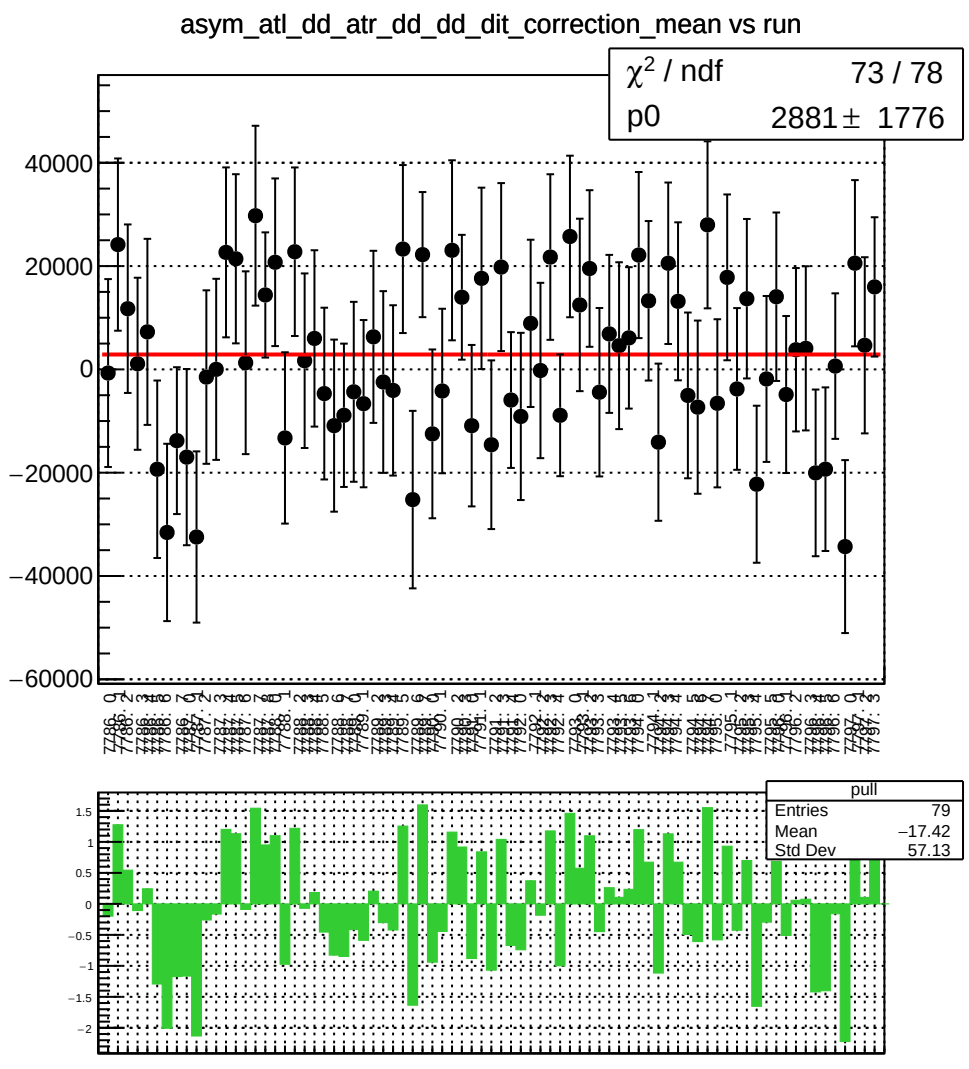

pull1D
Entries 79
Mean −0.01114
Std Dev 0.9617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

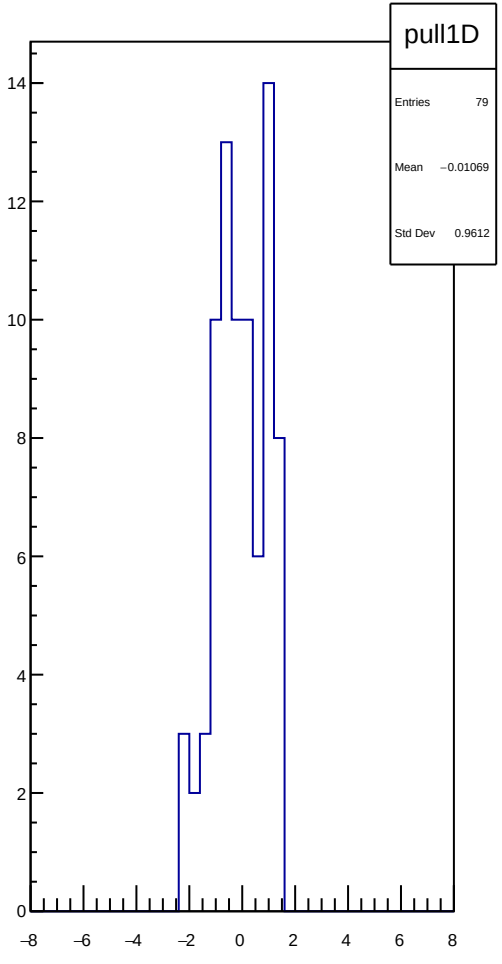

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2140 / 78
p0 1537 ± 1.242
1700
1650
1600
1550
1500
1450
1400

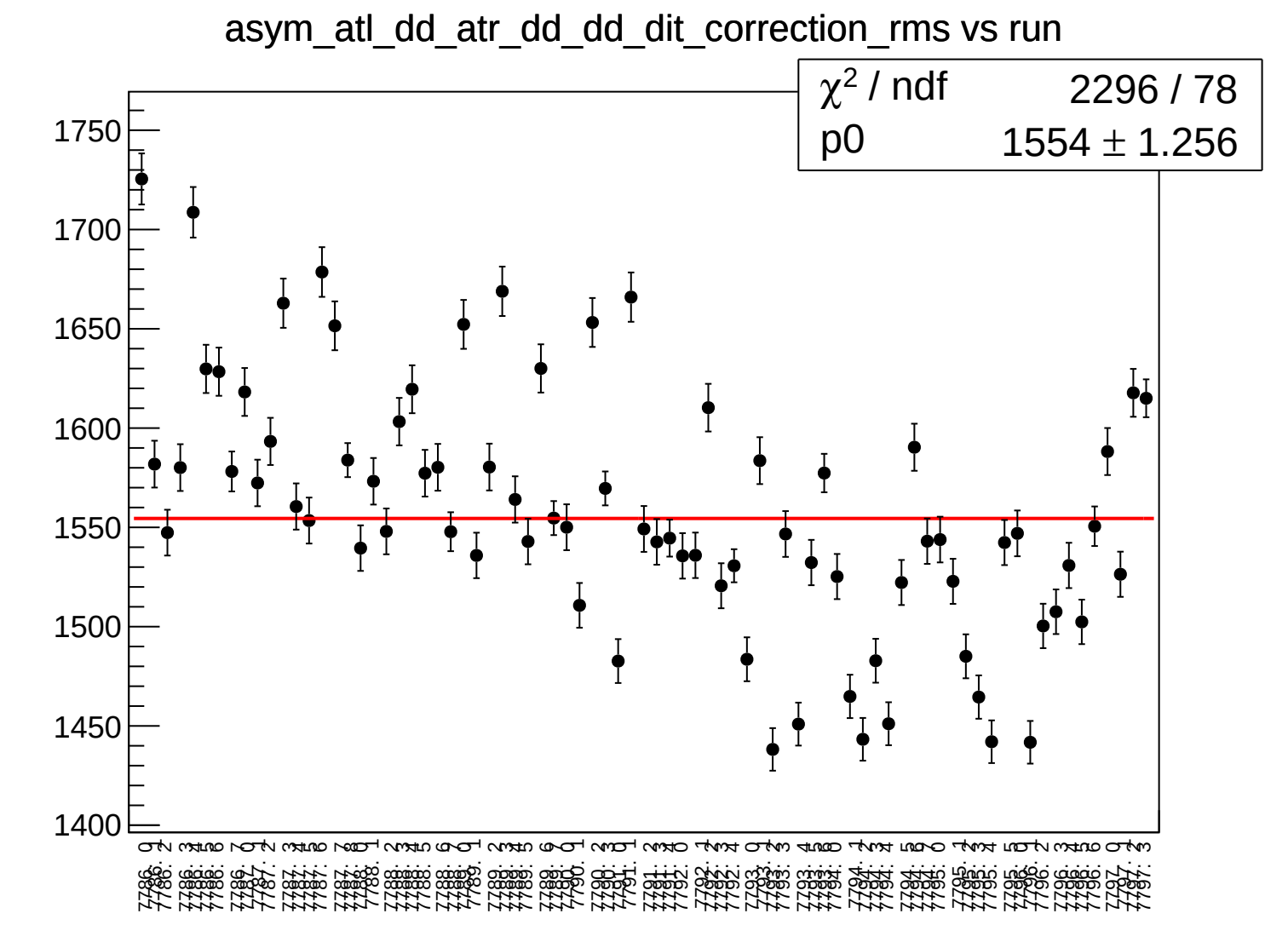

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 48.92 / 78
p0 −871.4 ± 1444
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean 141.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

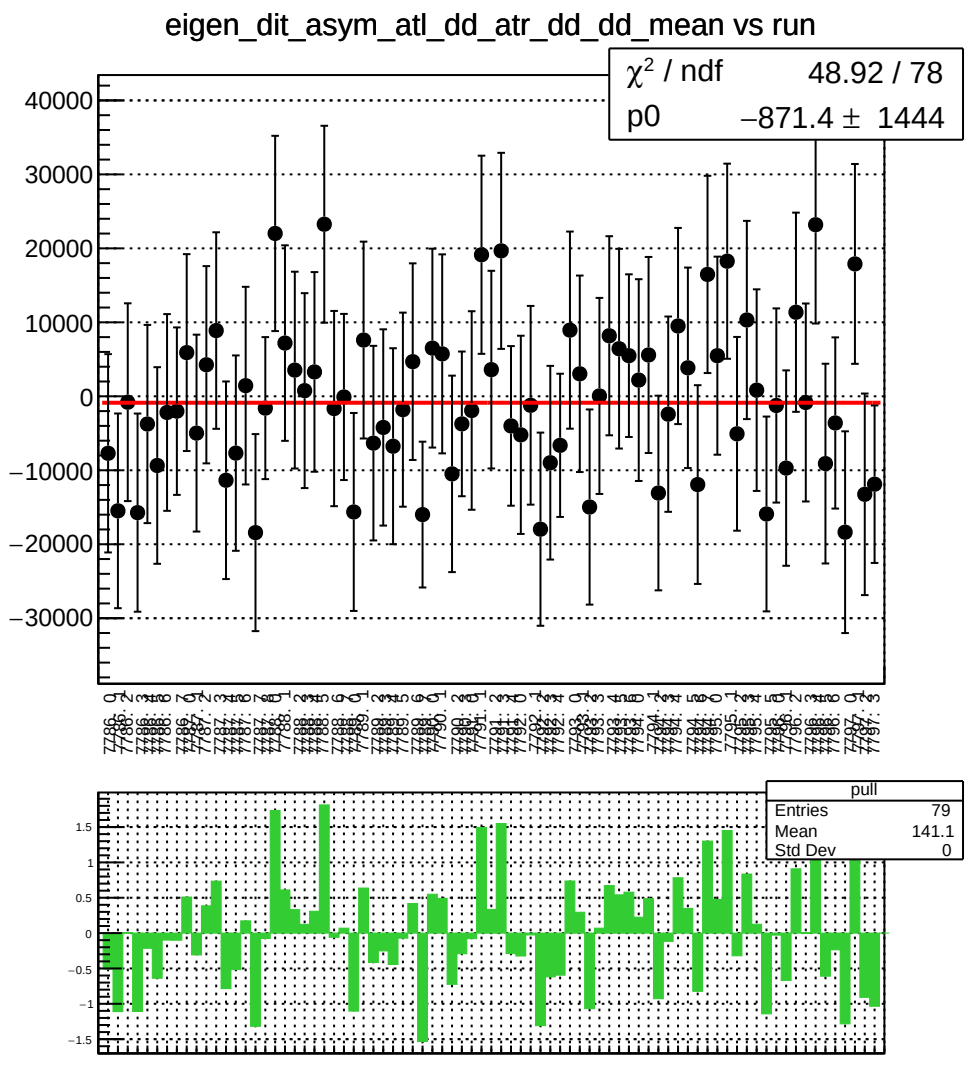

pull1D
Entries 79
Mean 0.01536
Std Dev 0.7867
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

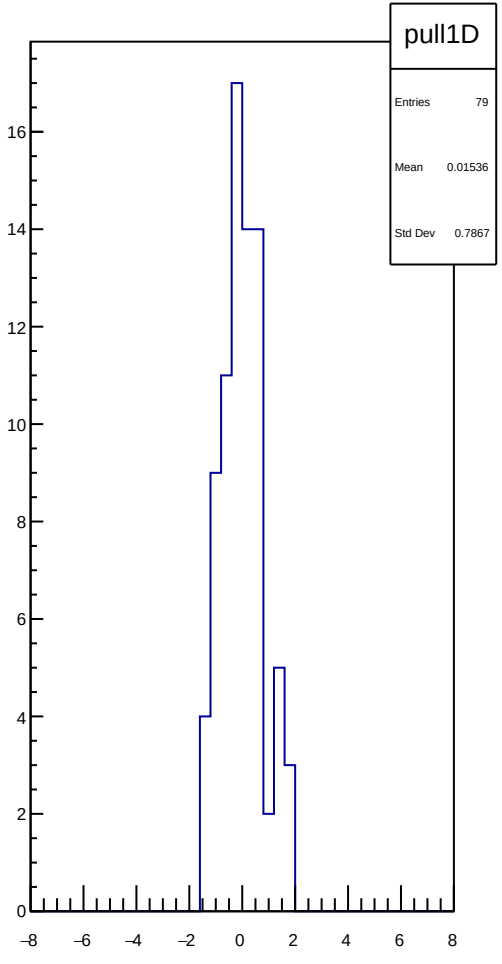

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 135.1 / 78
p0 1264 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240
1230

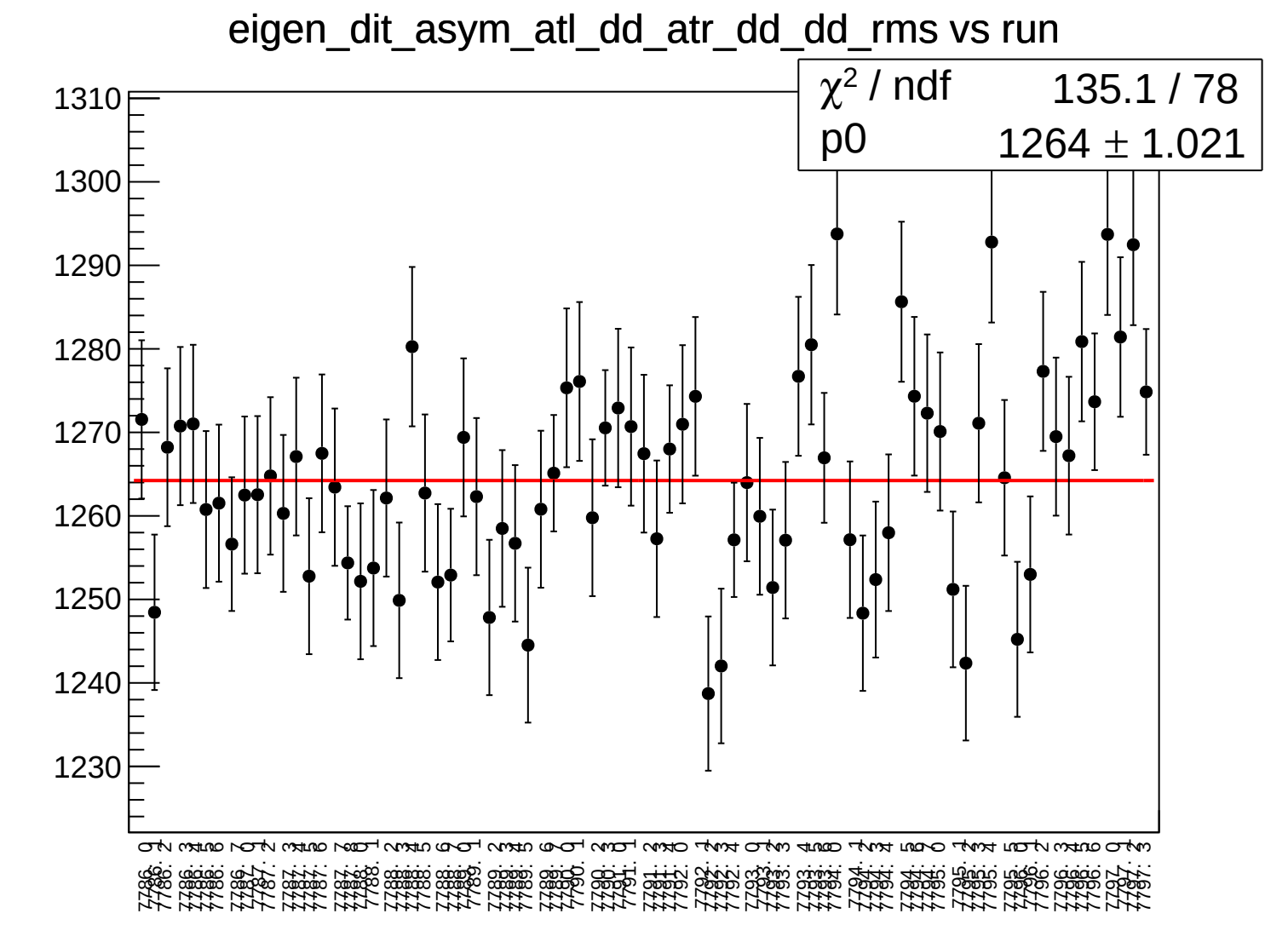

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 73 / 78
p0 2881 ± 1776
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −17.42
Std Dev 57.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2

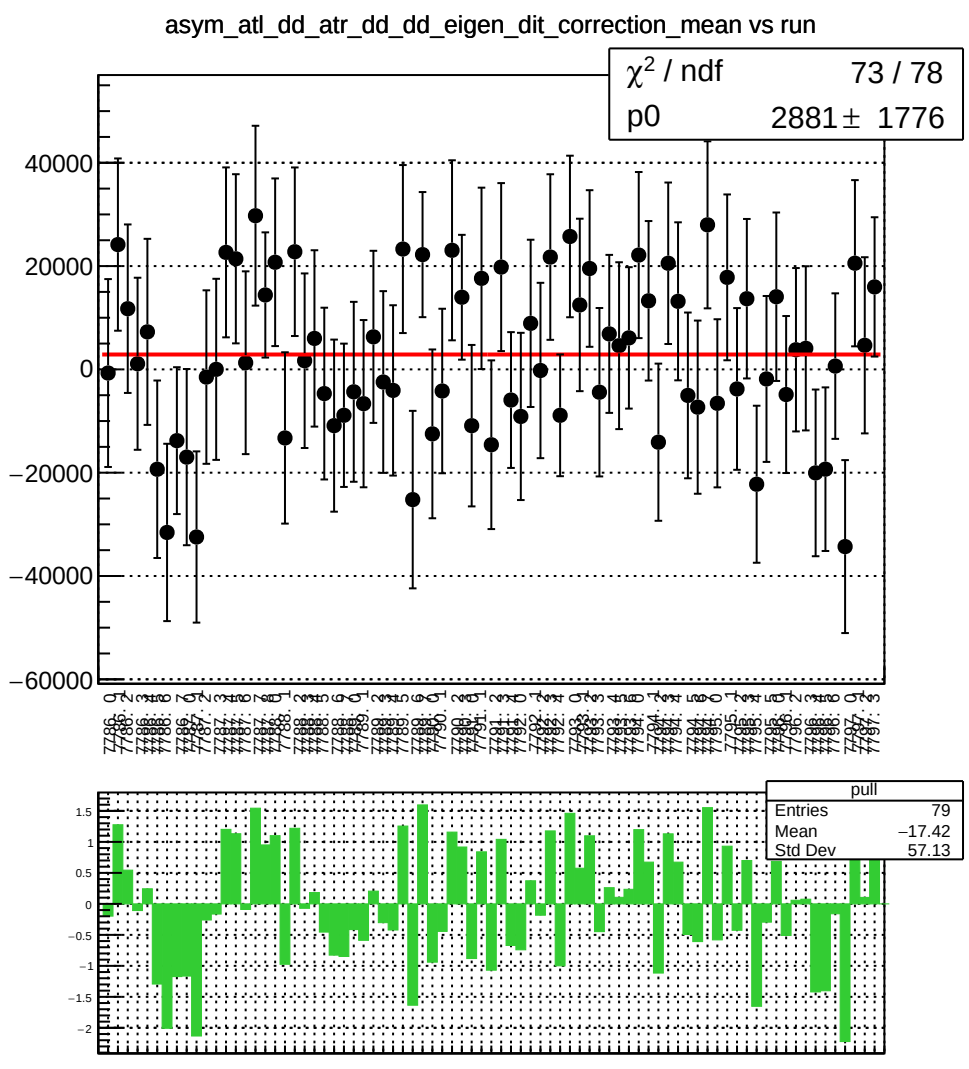

pull1D
Entries 79
Mean −0.01069
Std Dev 0.9612
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

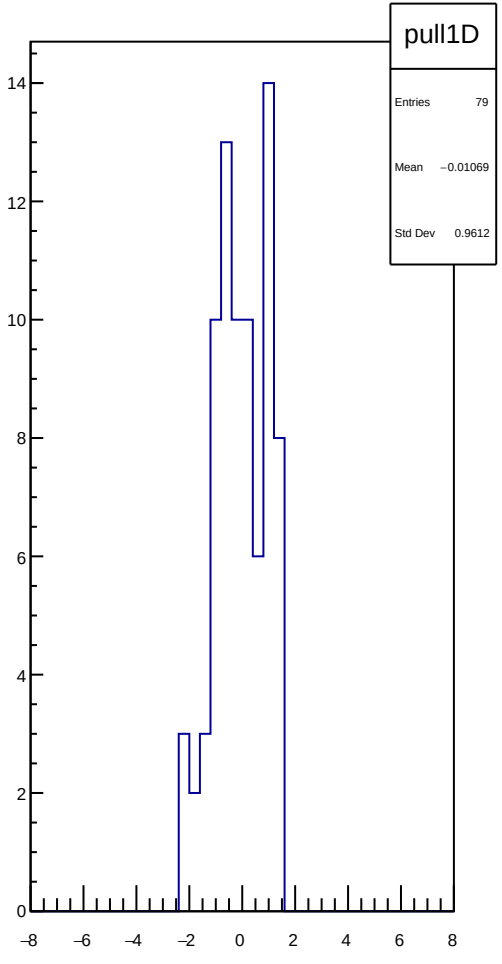

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2296 / 78
p0 1554 ± 1.256
1750
1700
1650
1600
1550
1500
1450
1400

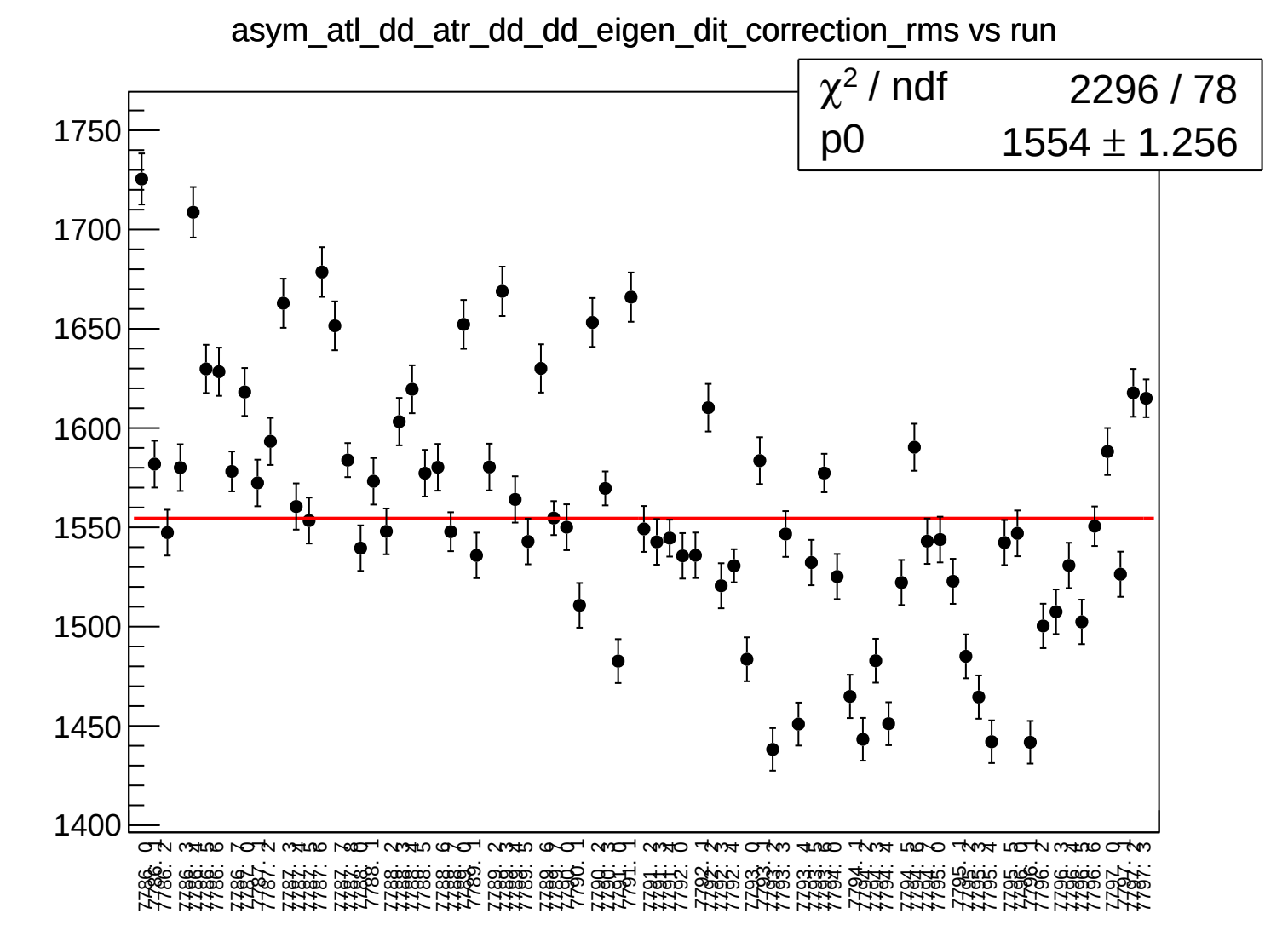

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 48.92 / 78
p0 −871.4 ± 1444
pull
Entries 79
Mean 141.1
Std Dev 0

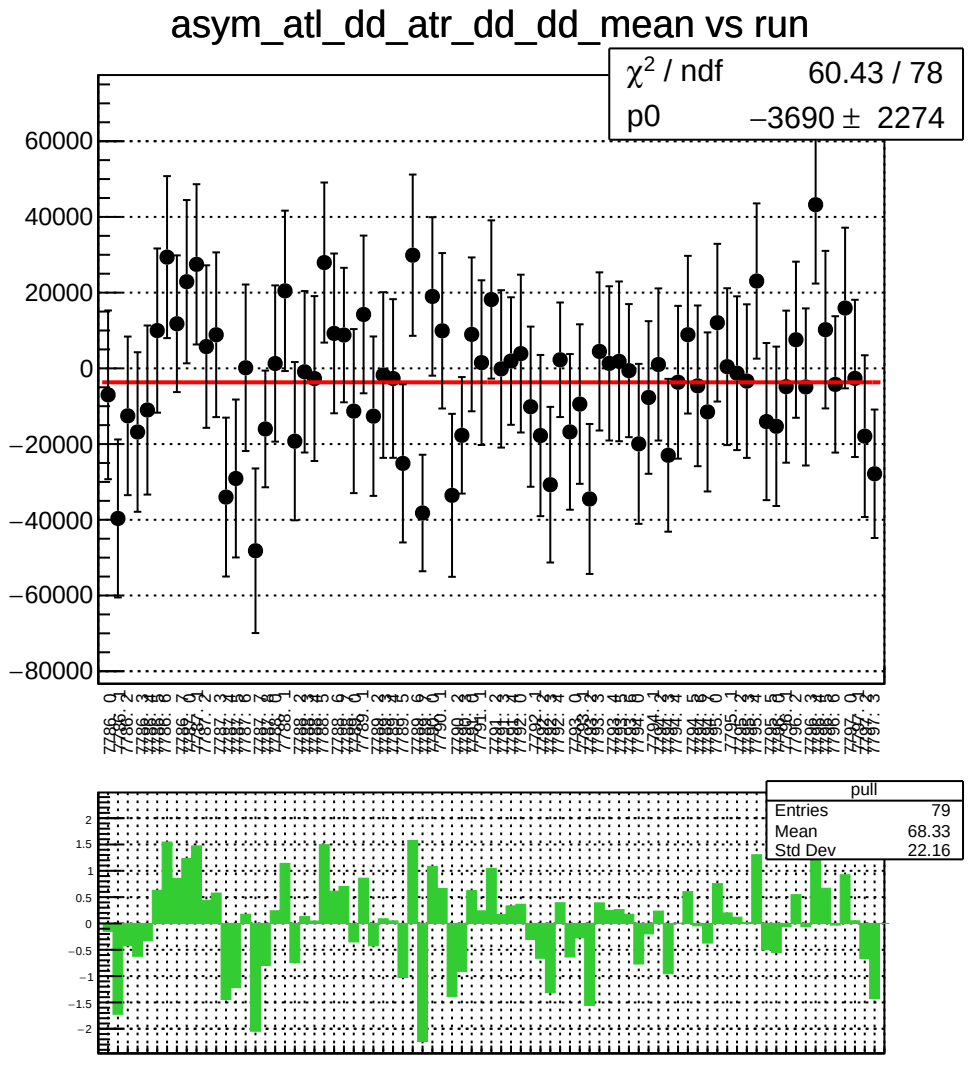

pull1D
Entries 79
Mean 0.01536
Std Dev 0.7867

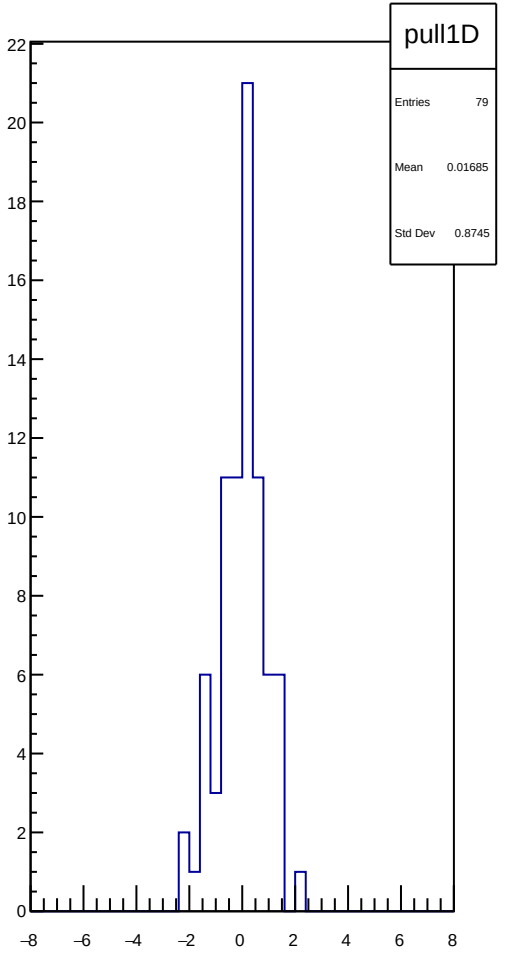

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 135.1 / 78
p0 1264 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240
1230

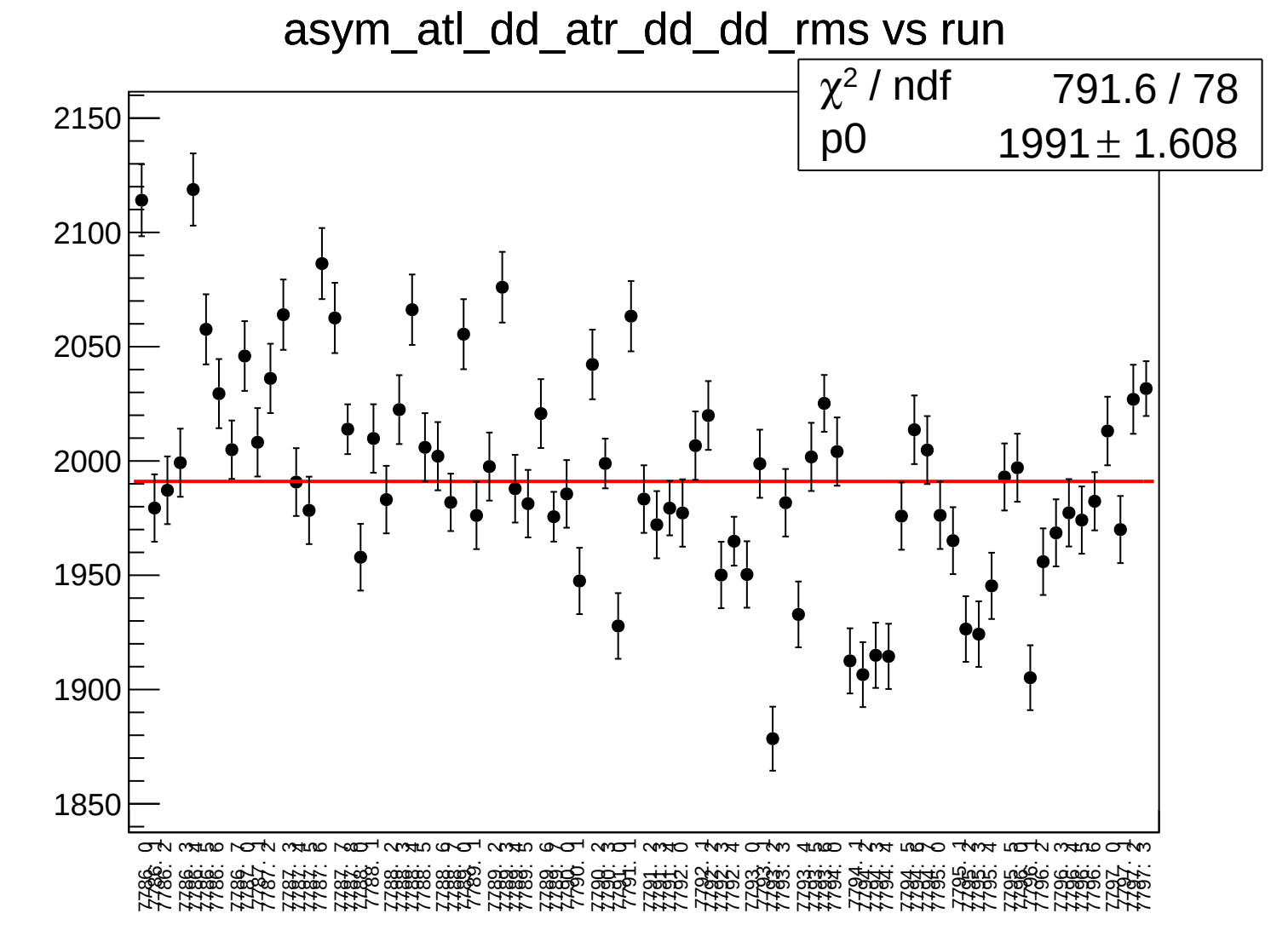

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 73 / 78
p0 2881 ± 1776
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −17.42
Std Dev 57.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2

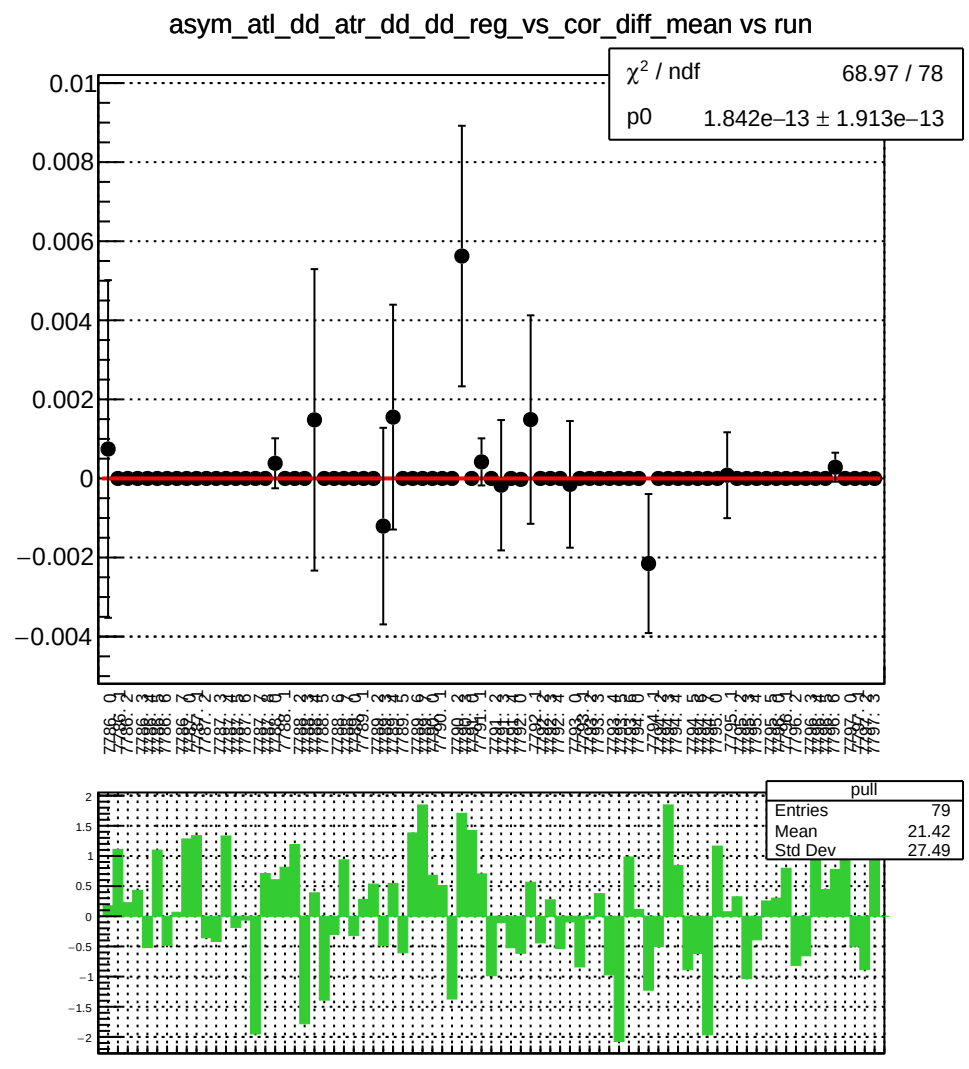

pull1D
Entries 79
Mean −0.01069
Std Dev 0.9612
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

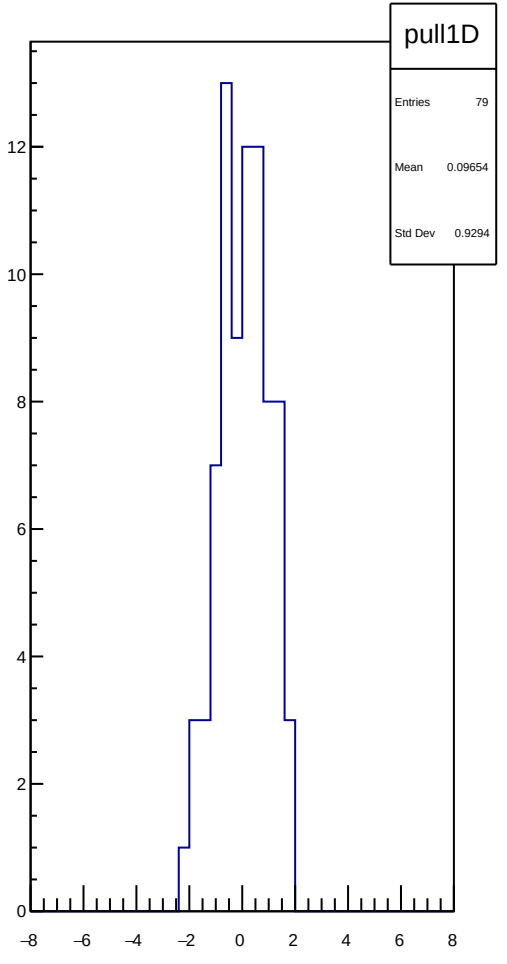

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2296 / 78
p0 1554 ± 1.256
1750
1700
1650
1600
1550
1500
1450
1400

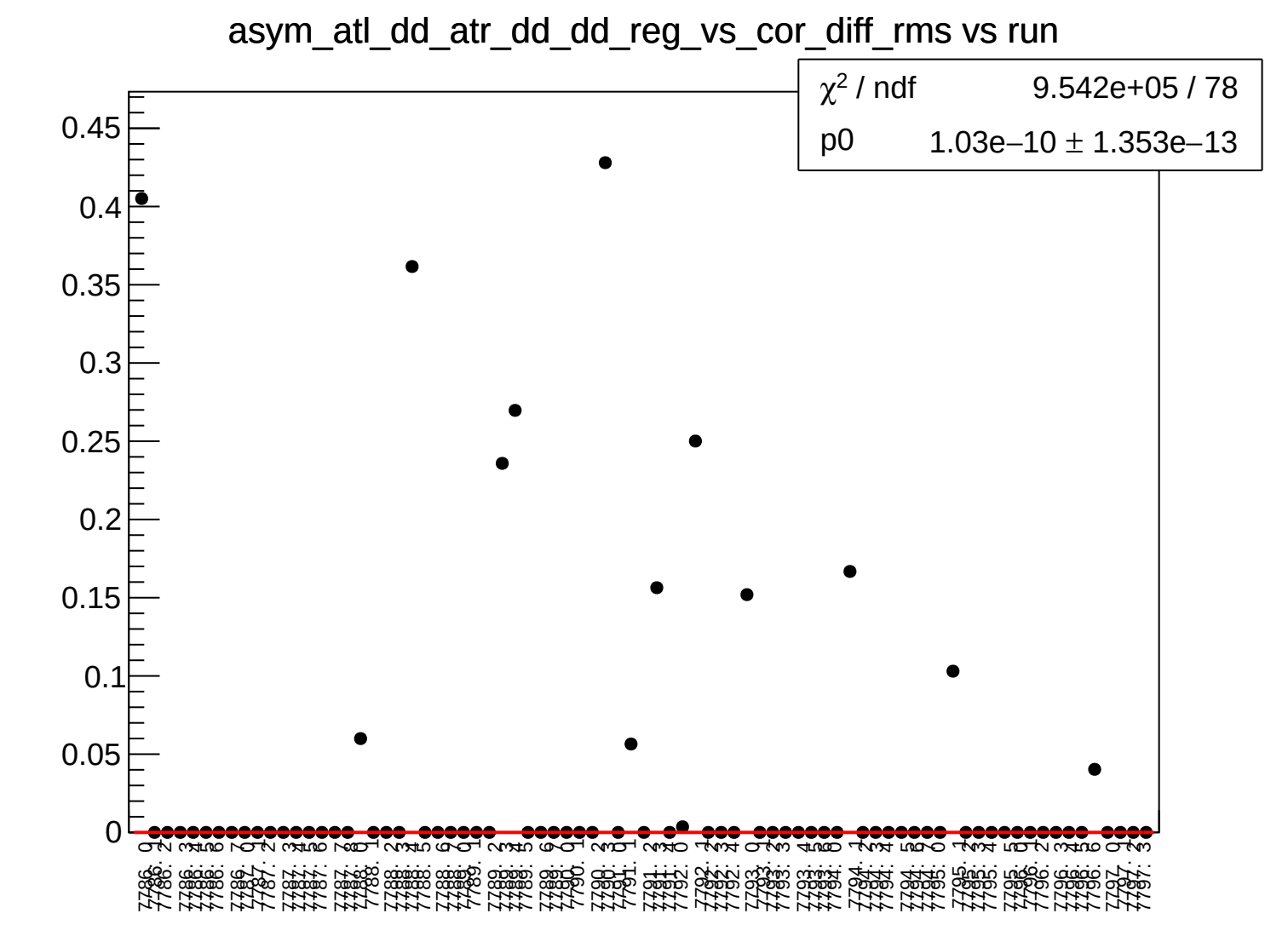

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 60.43 / 78
p0 −3690 ± 2274
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean 68.33
Std Dev 22.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

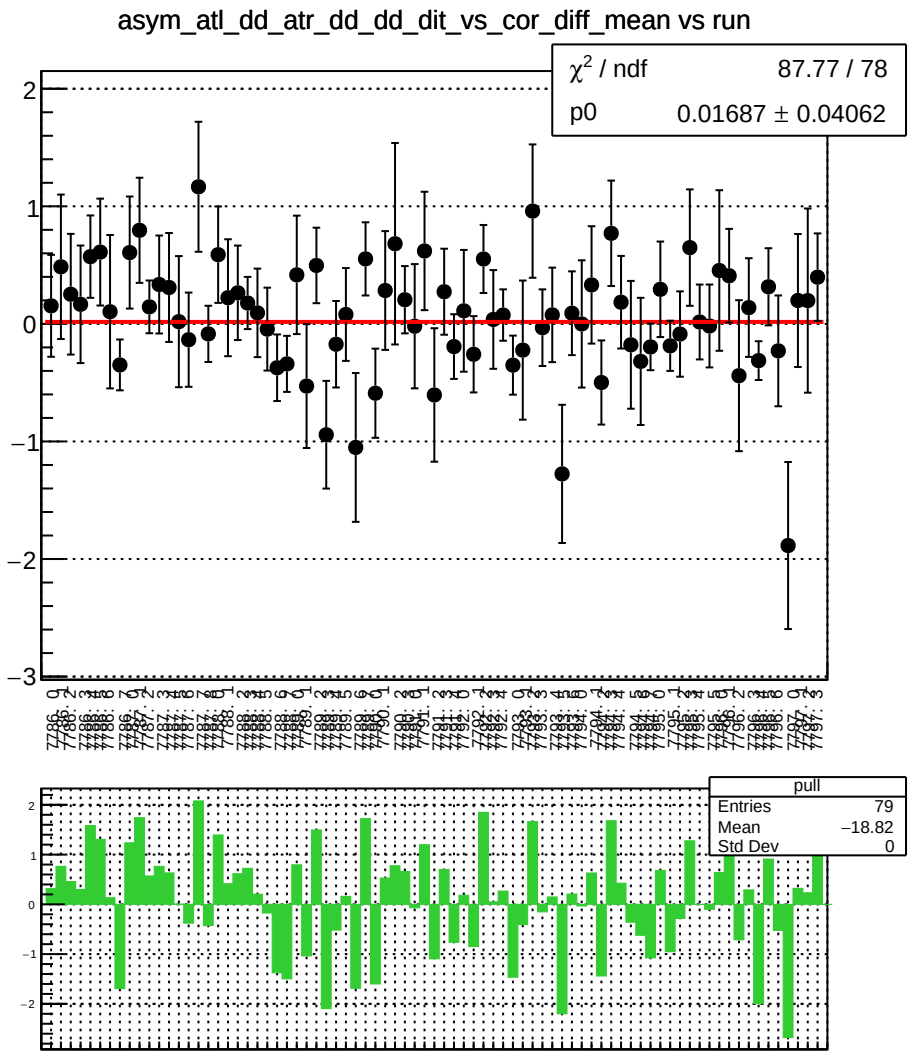

pull1D
Entries 79
Mean 0.01685
Std Dev 0.8745
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

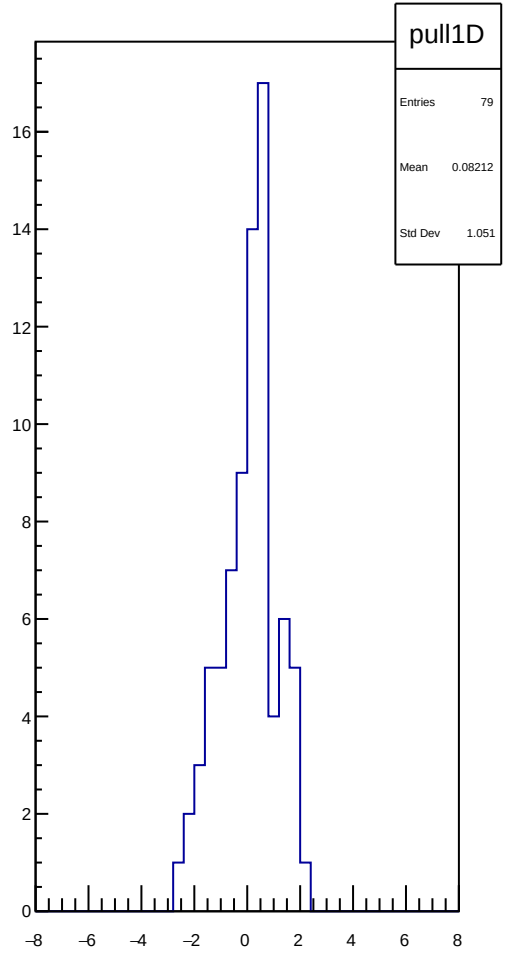

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 791.6 / 78
p0 1991 ± 1.608
2150
2100
2050
2000
1950
1900
1850

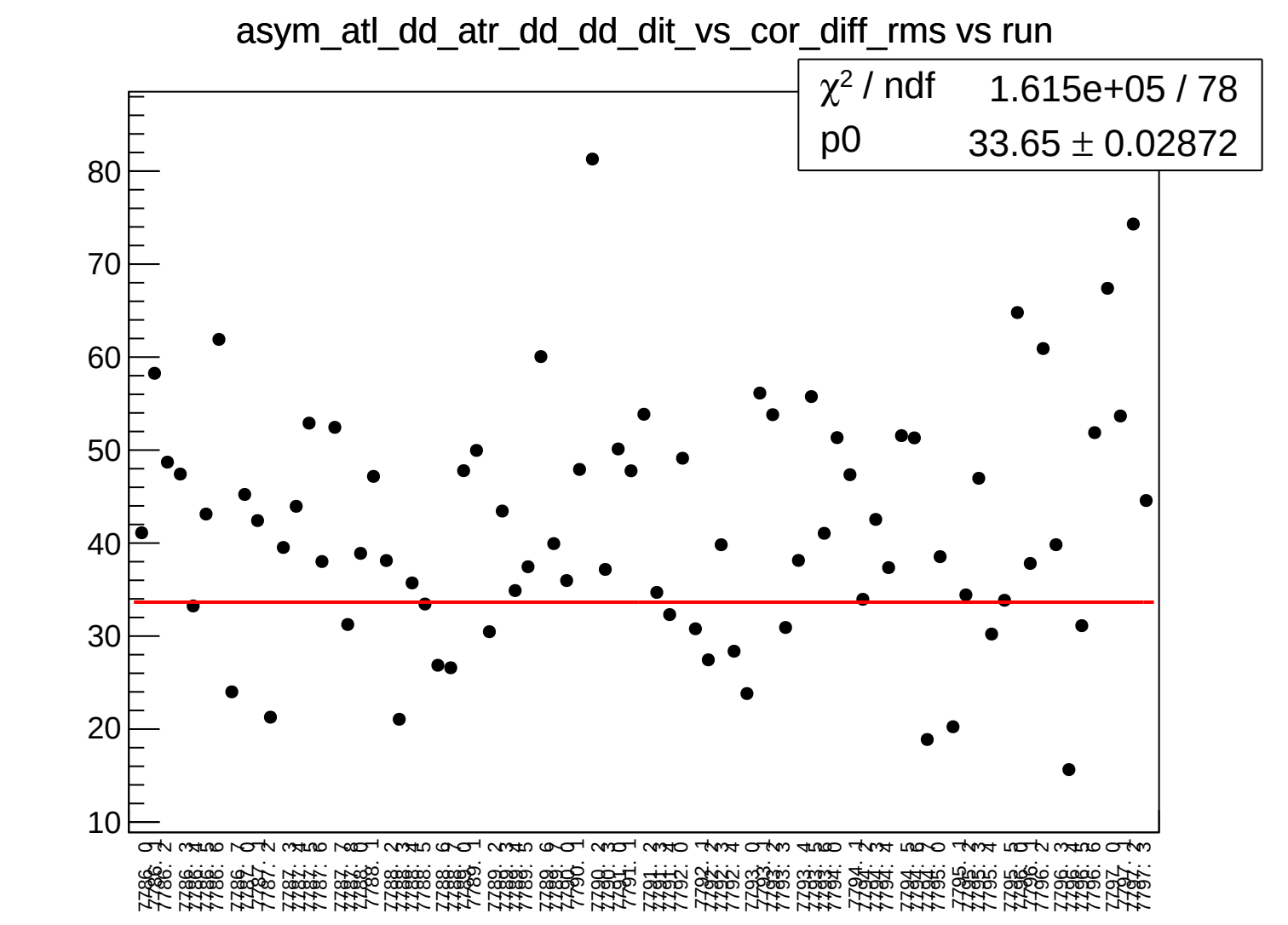

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.97 / 78
p0 1.842e−13 ± 1.913e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
pull
Entries 79
Mean 21.42
Std Dev 27.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

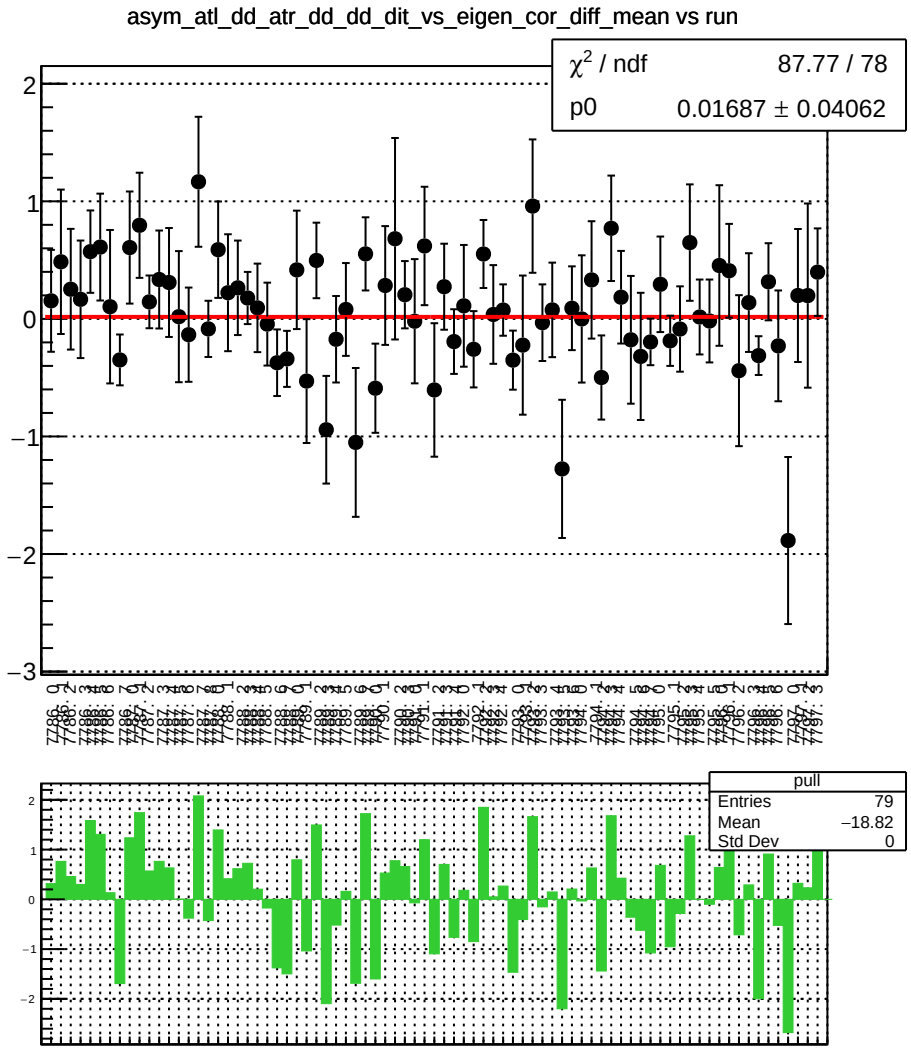

pull1D
Entries 79
Mean 0.09654
Std Dev 0.9294
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

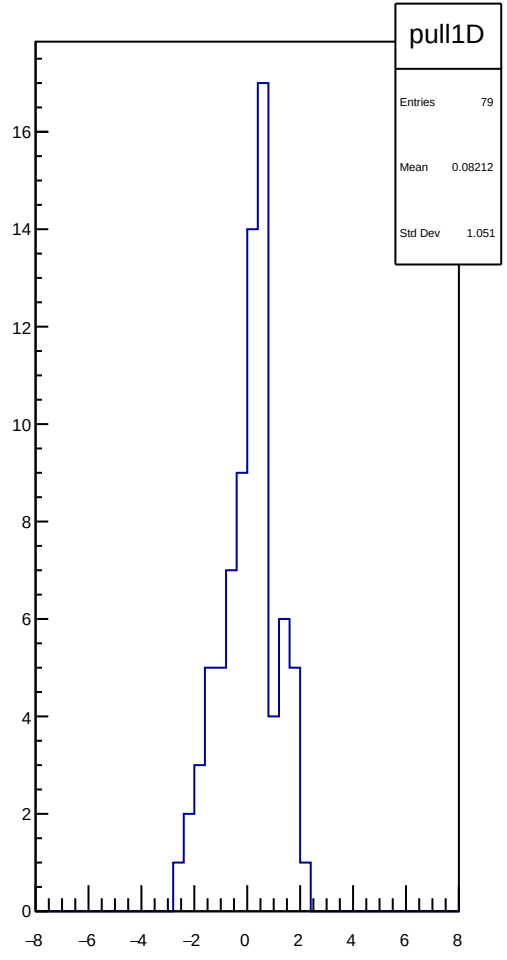

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.542e+05 / 78
p0 1.03e−10 ± 1.353e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

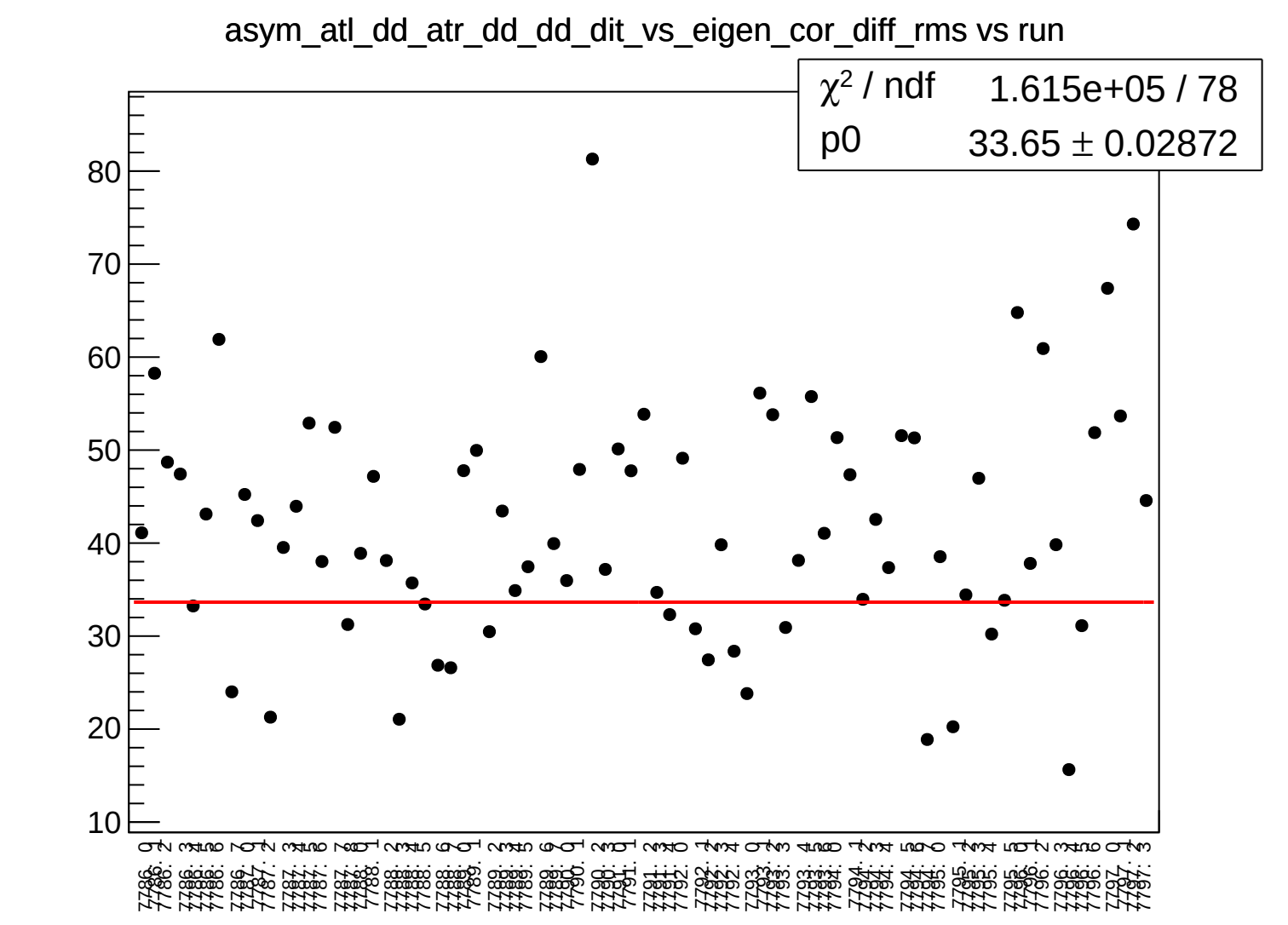

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.77 / 78
p0 0.01687 ± 0.04062
pull
Entries 79
Mean −18.82
Std Dev 0

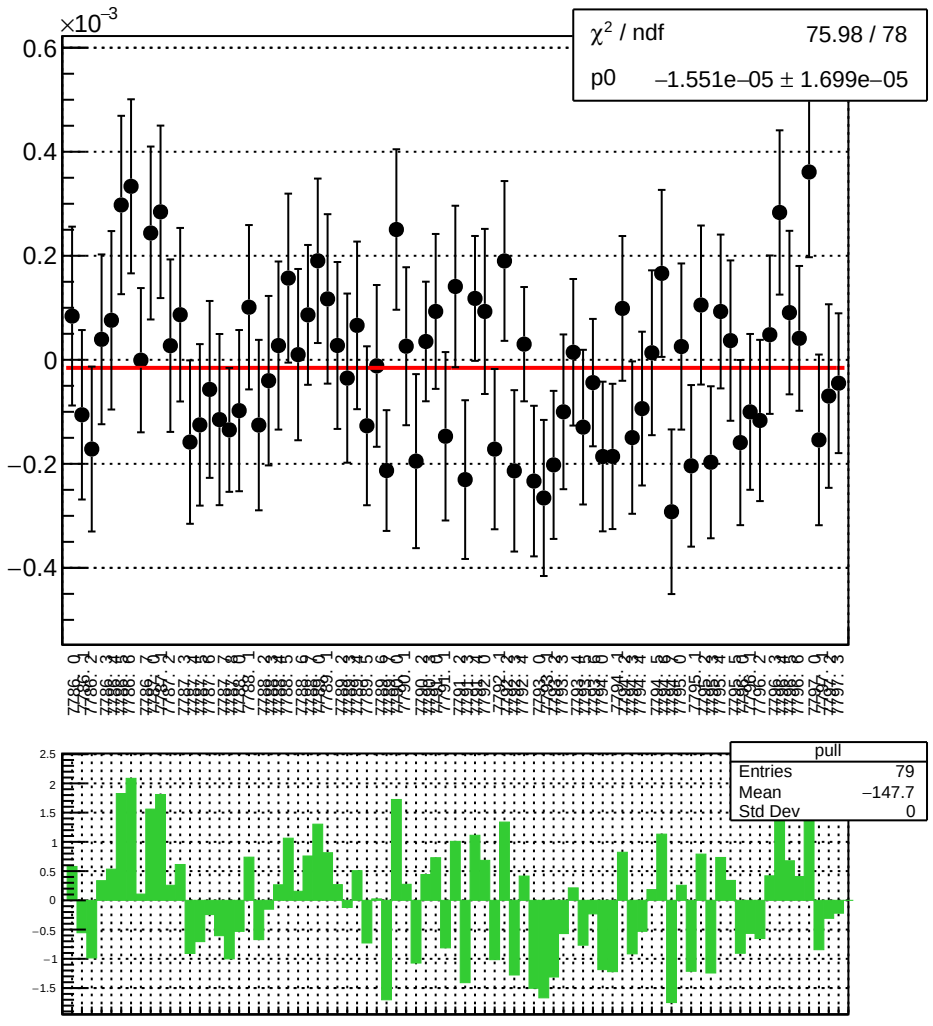

pull1D
Entries 79
Mean 0.08212
Std Dev 1.051

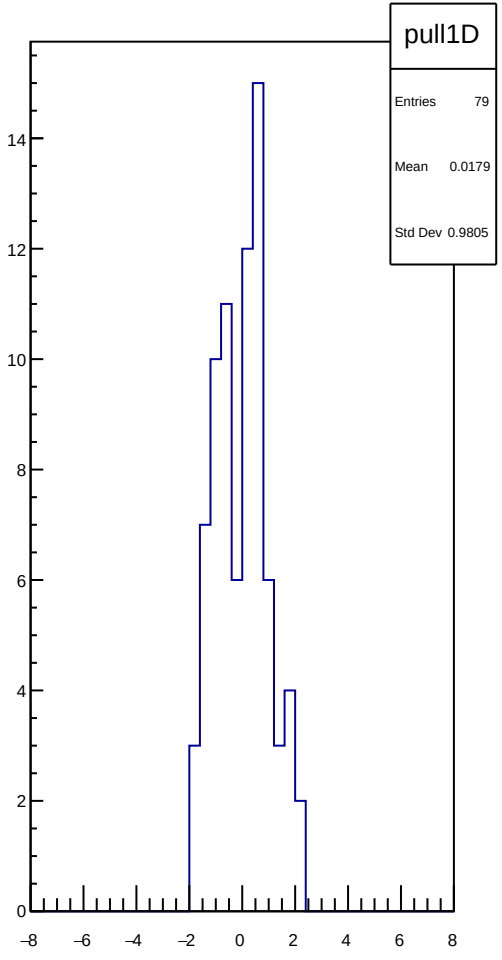

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.615e+05 / 78
p0 33.65 ± 0.02872
80
70
60
50
40
30
20
10

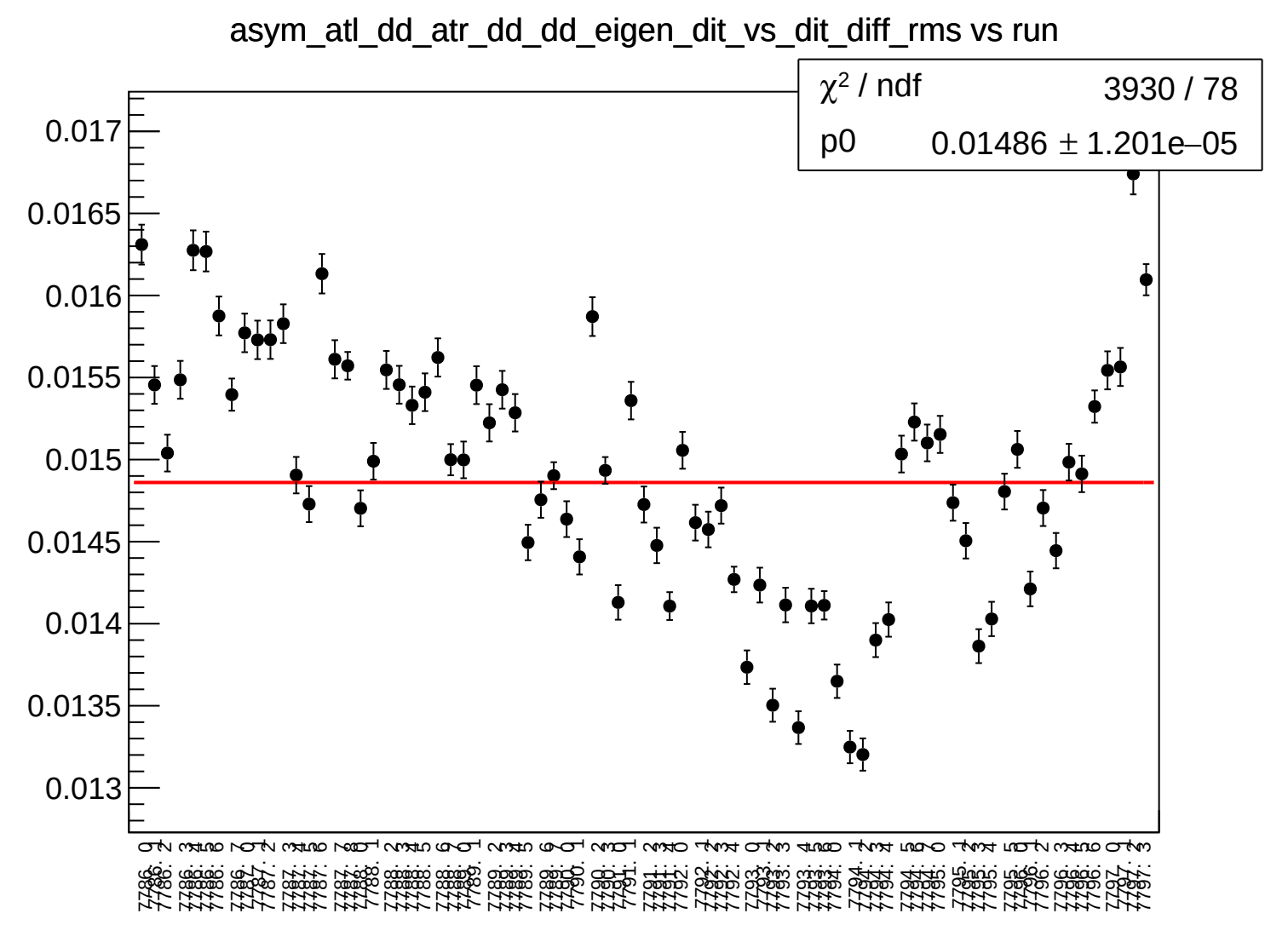

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.77 / 78
p0 0.01687 ± 0.04062
pull
Entries 79
Mean −18.82
Std Dev 0

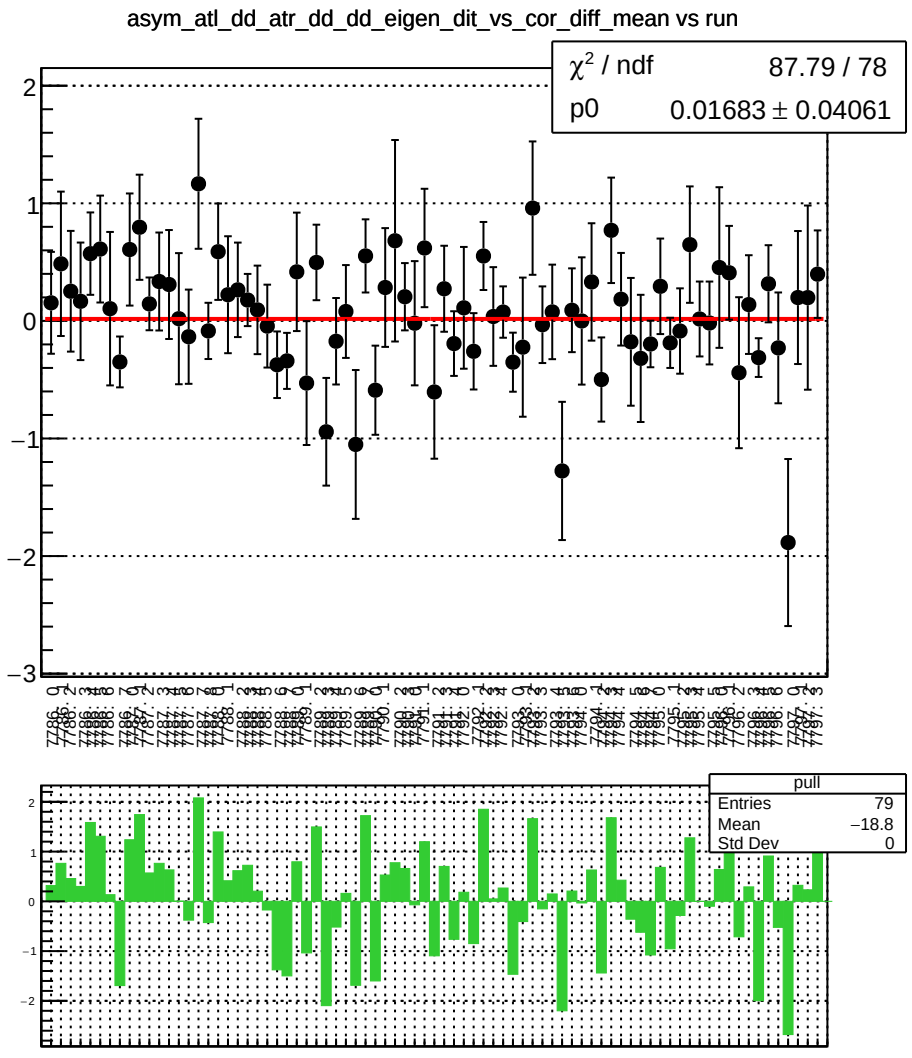

pull1D
Entries 79
Mean 0.08212
Std Dev 1.051

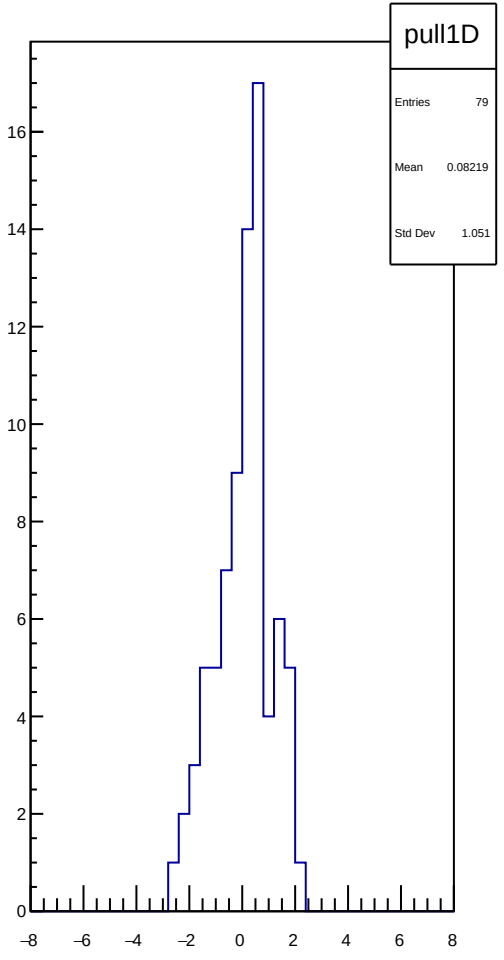

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.615e+05 / 78
p0 33.65 ± 0.02872
80
70
60
50
40
30
20
10

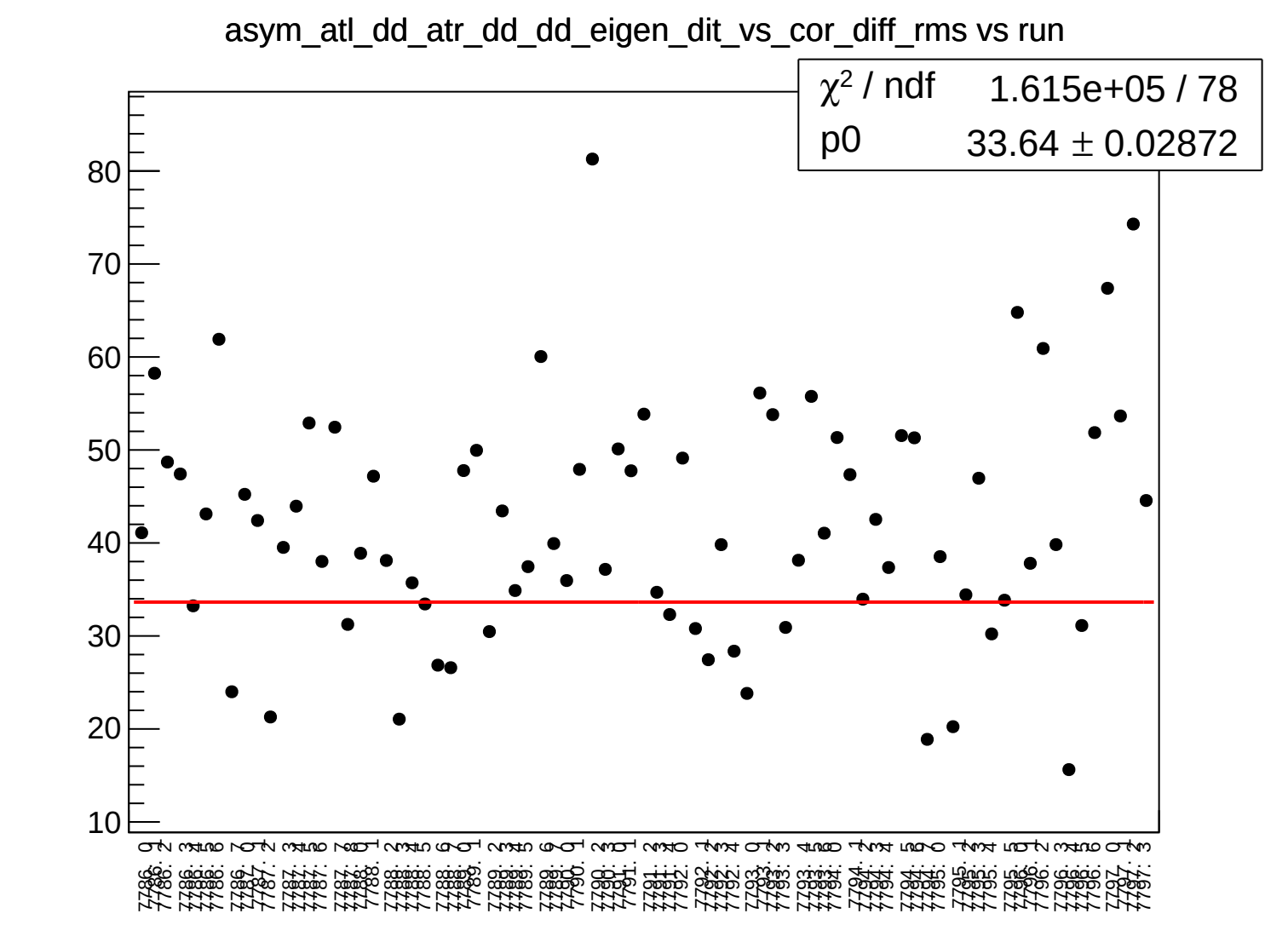

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.98 / 78
p0 −1.551e−05 ± 1.699e−05
pull
Entries 79
Mean −147.7
Std Dev 0

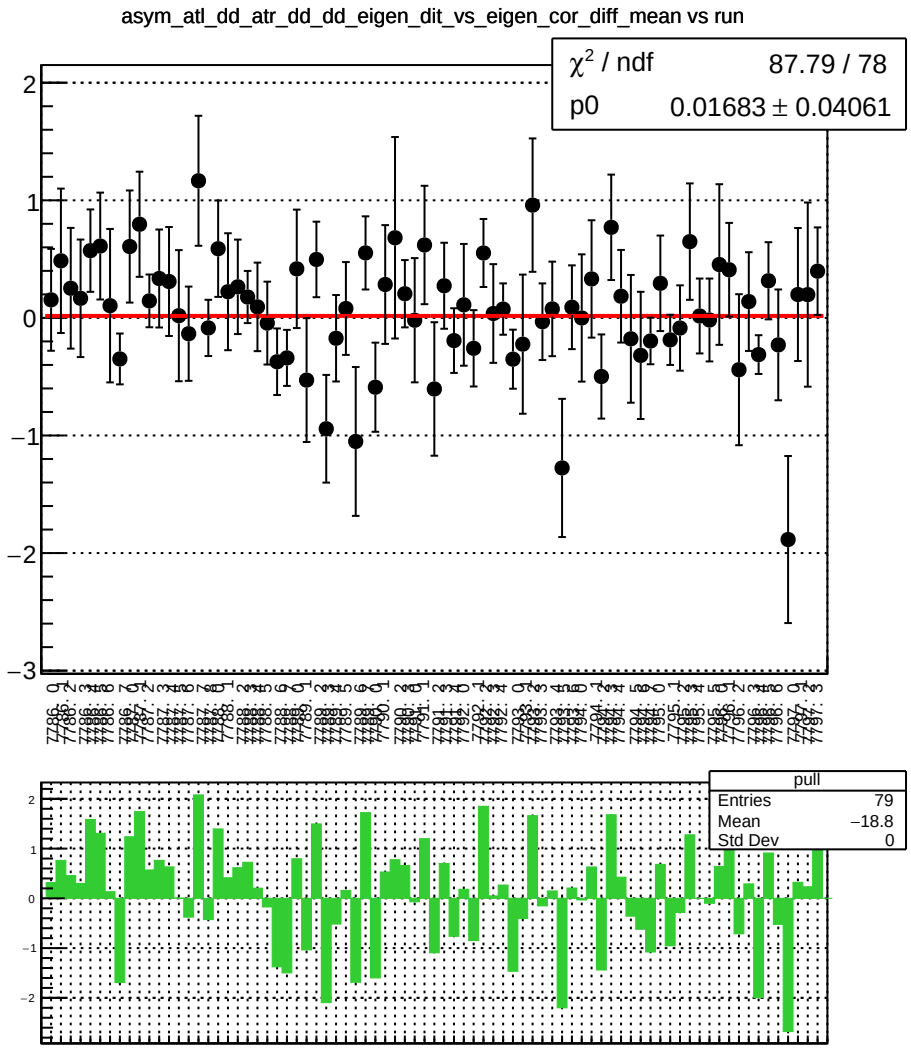

pull1D
Entries 79
Mean 0.0179
Std Dev 0.9805

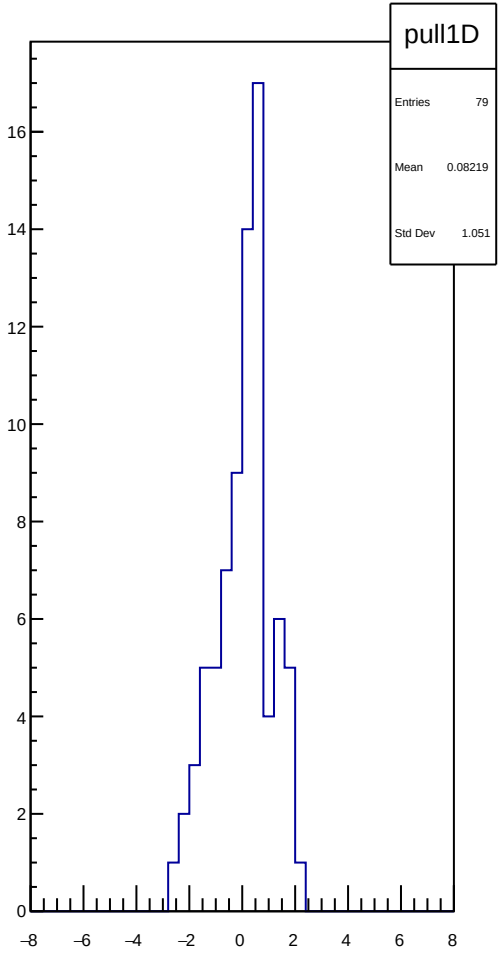

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3930 / 78
p0 0.01486 ± 1.201e−05
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013

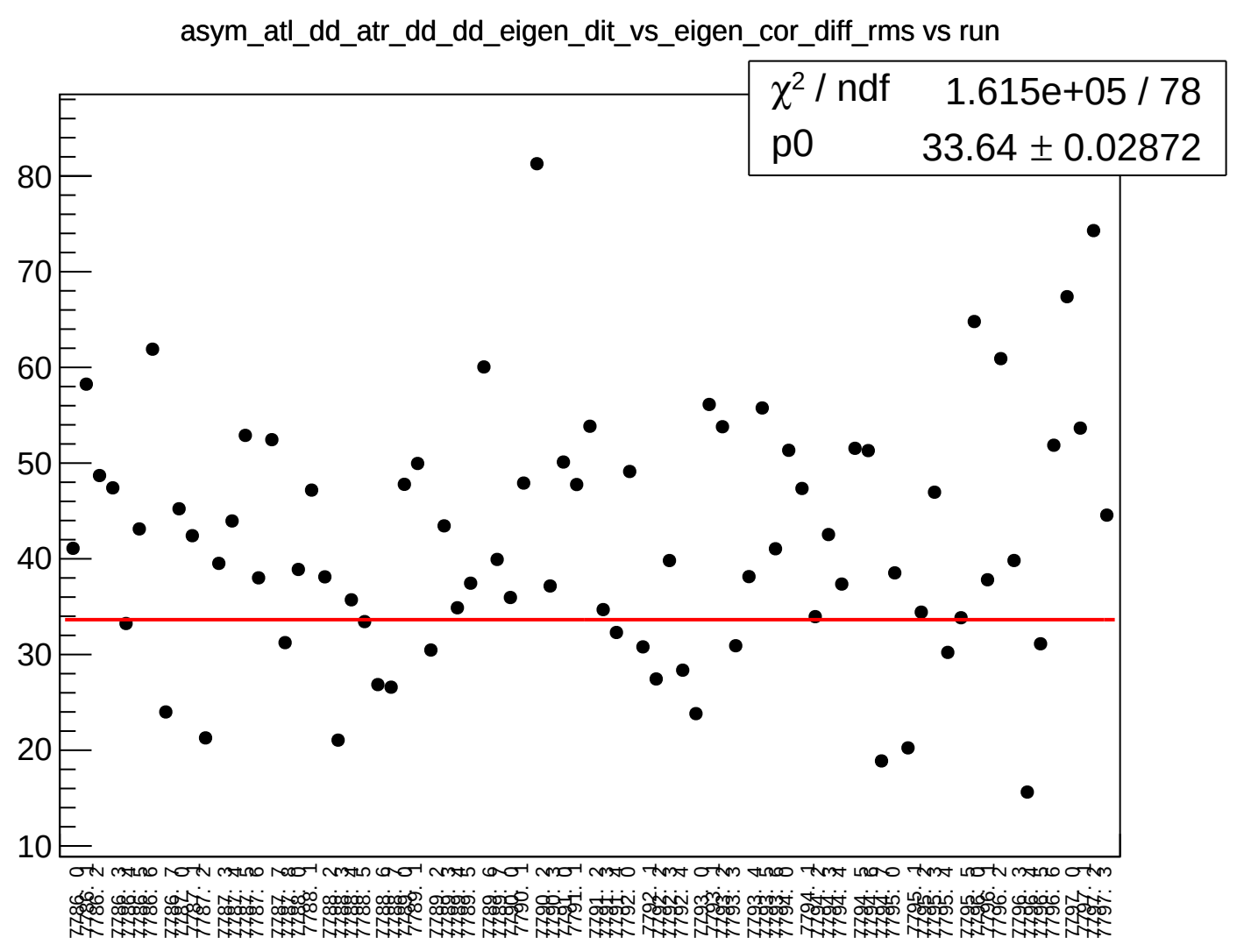

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.79 / 78
p0 0.01683 ± 0.04061
pull
Entries 79
Mean −18.8
Std Dev 0

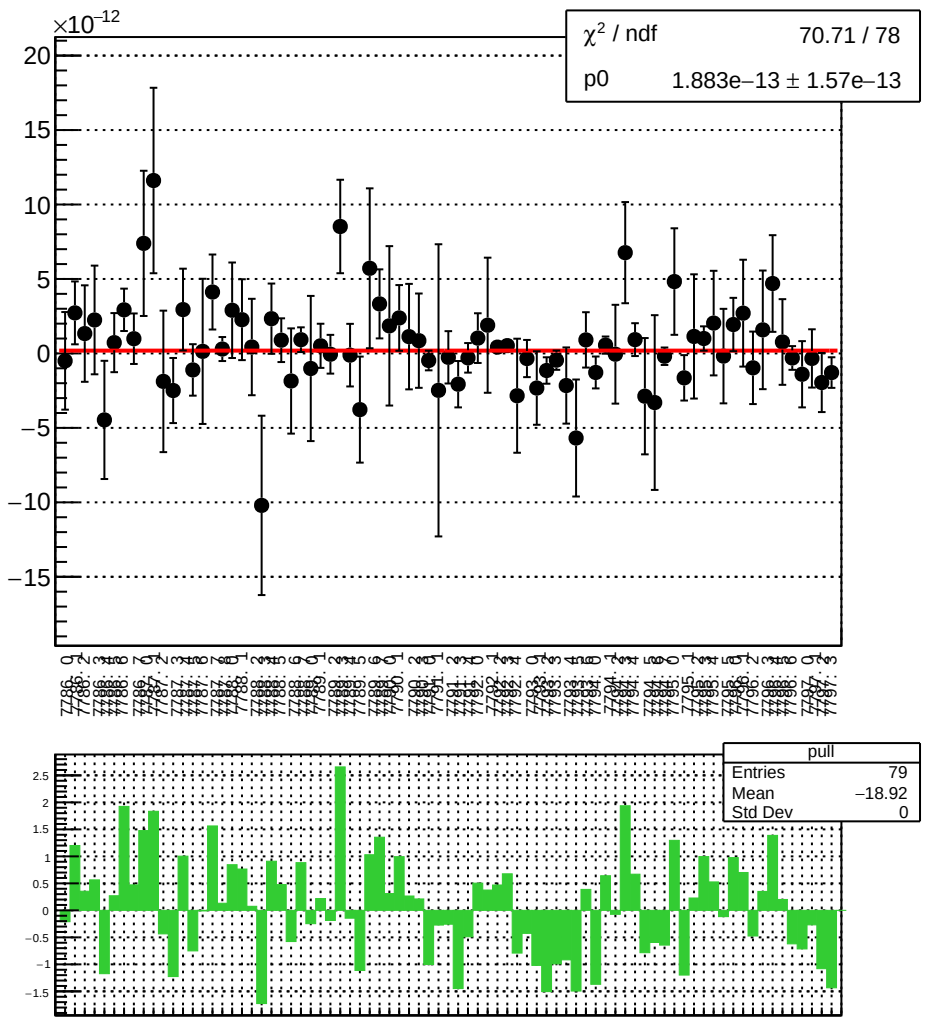

pull1D
Entries 79
Mean 0.08219
Std Dev 1.051

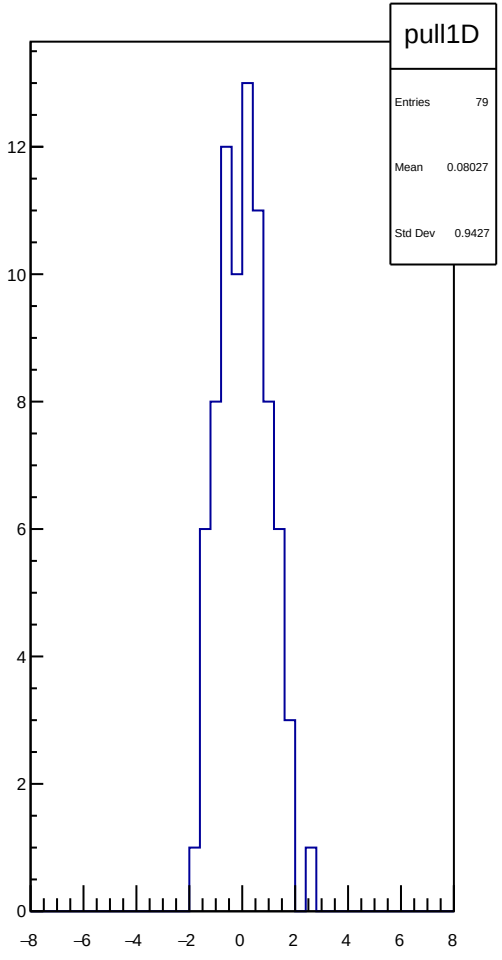

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.615e+05 / 78
p0 33.64 ± 0.02872
80
70
60
50
40
30
20
10

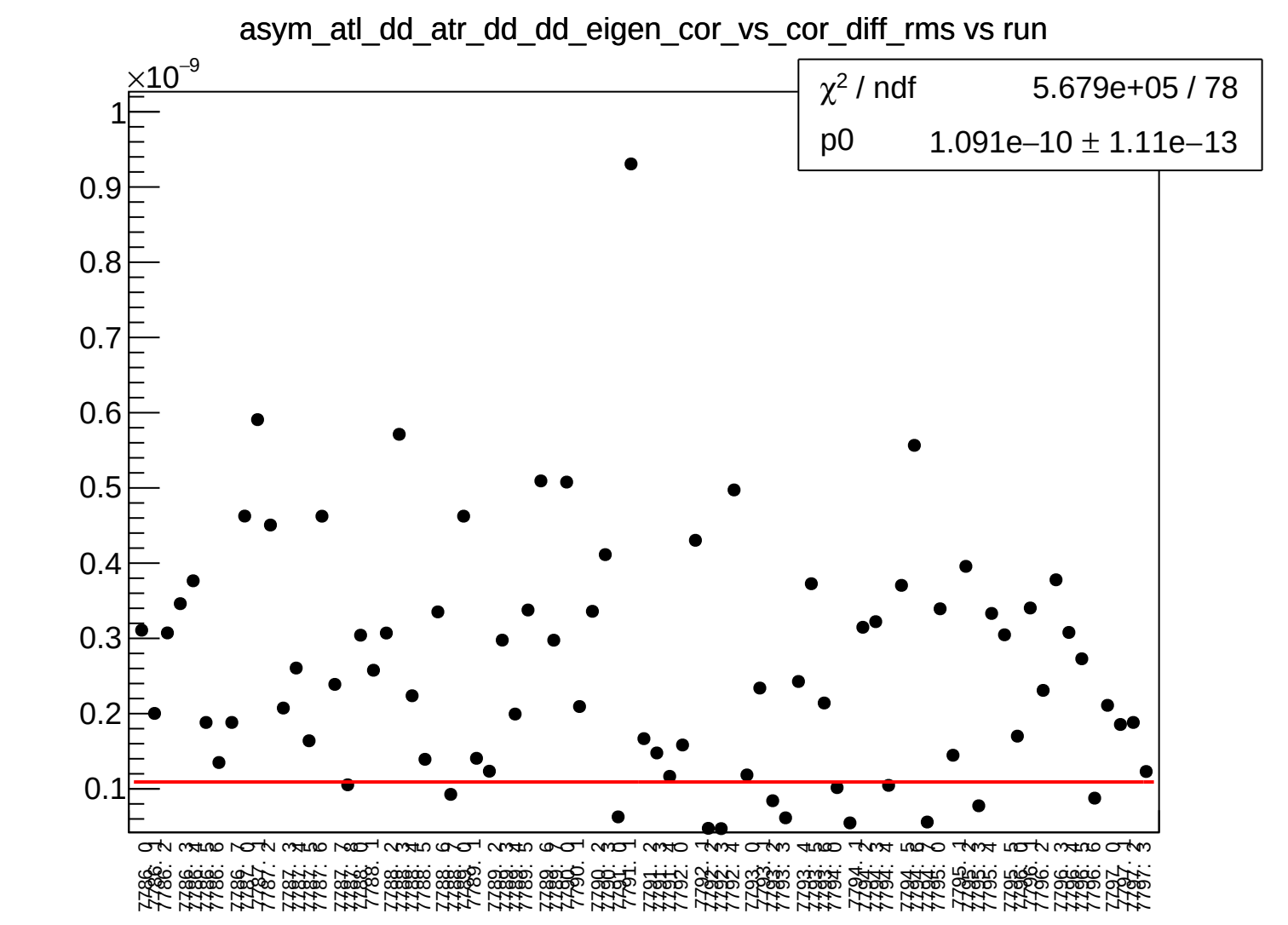

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.79 / 78
p0 0.01683 ± 0.04061
pull
Entries 79
Mean −18.8
Std Dev 0

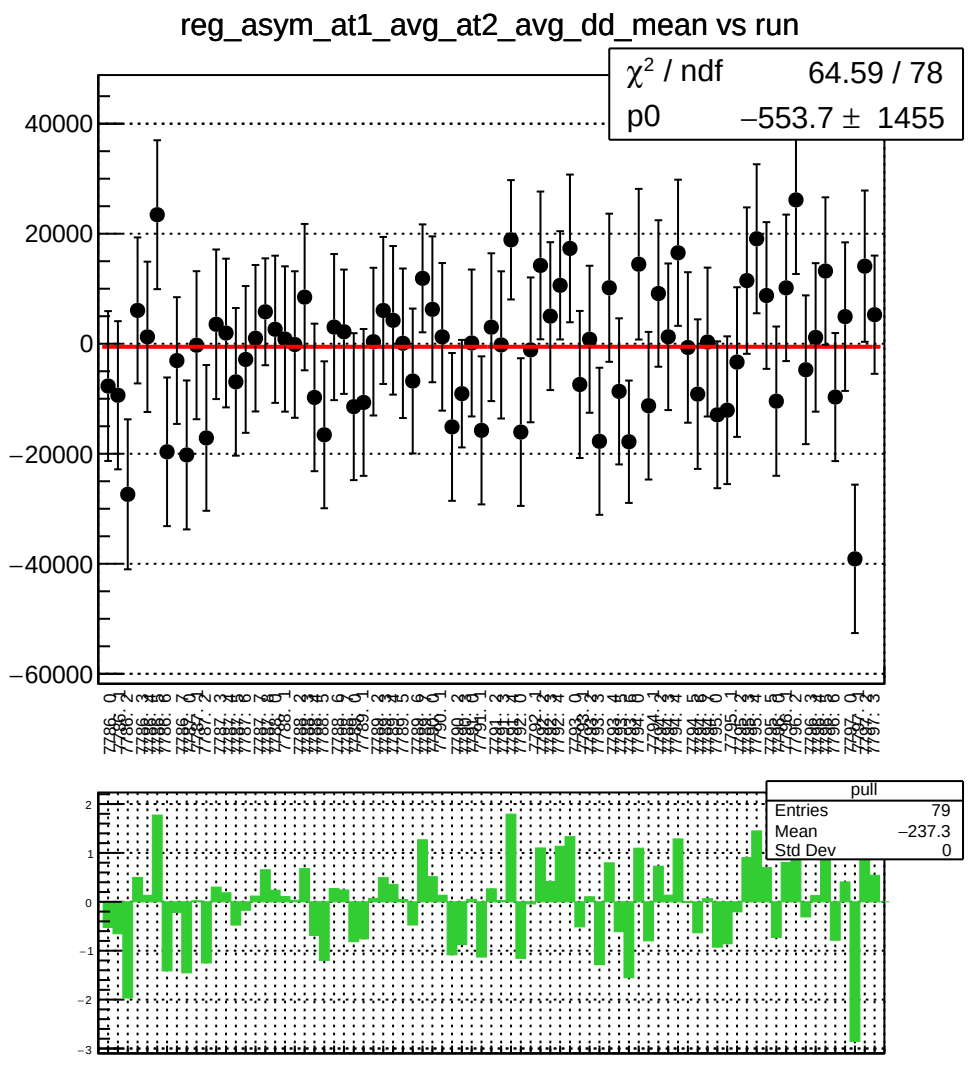

pull1D
Entries 79
Mean 0.08219
Std Dev 1.051

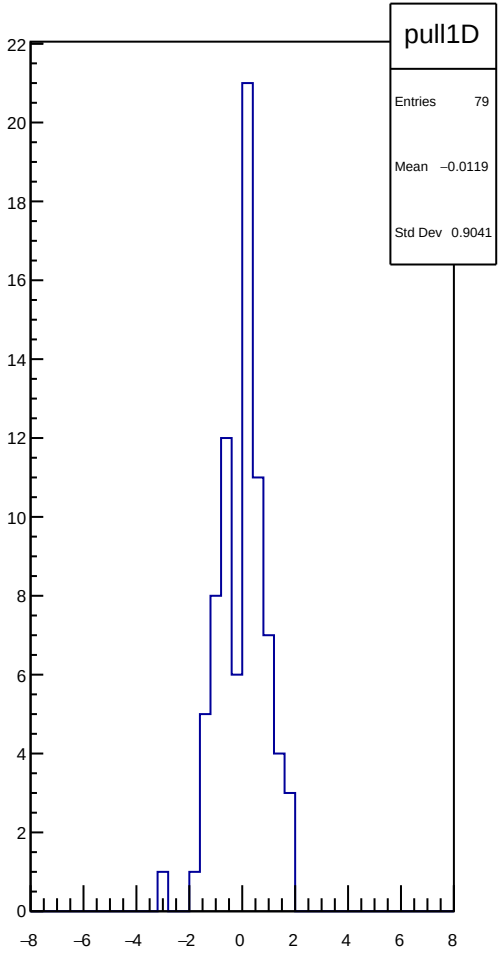

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.615e+05 / 78
p0 33.64 ± 0.02872
80
70
60
50
40
30
20
10

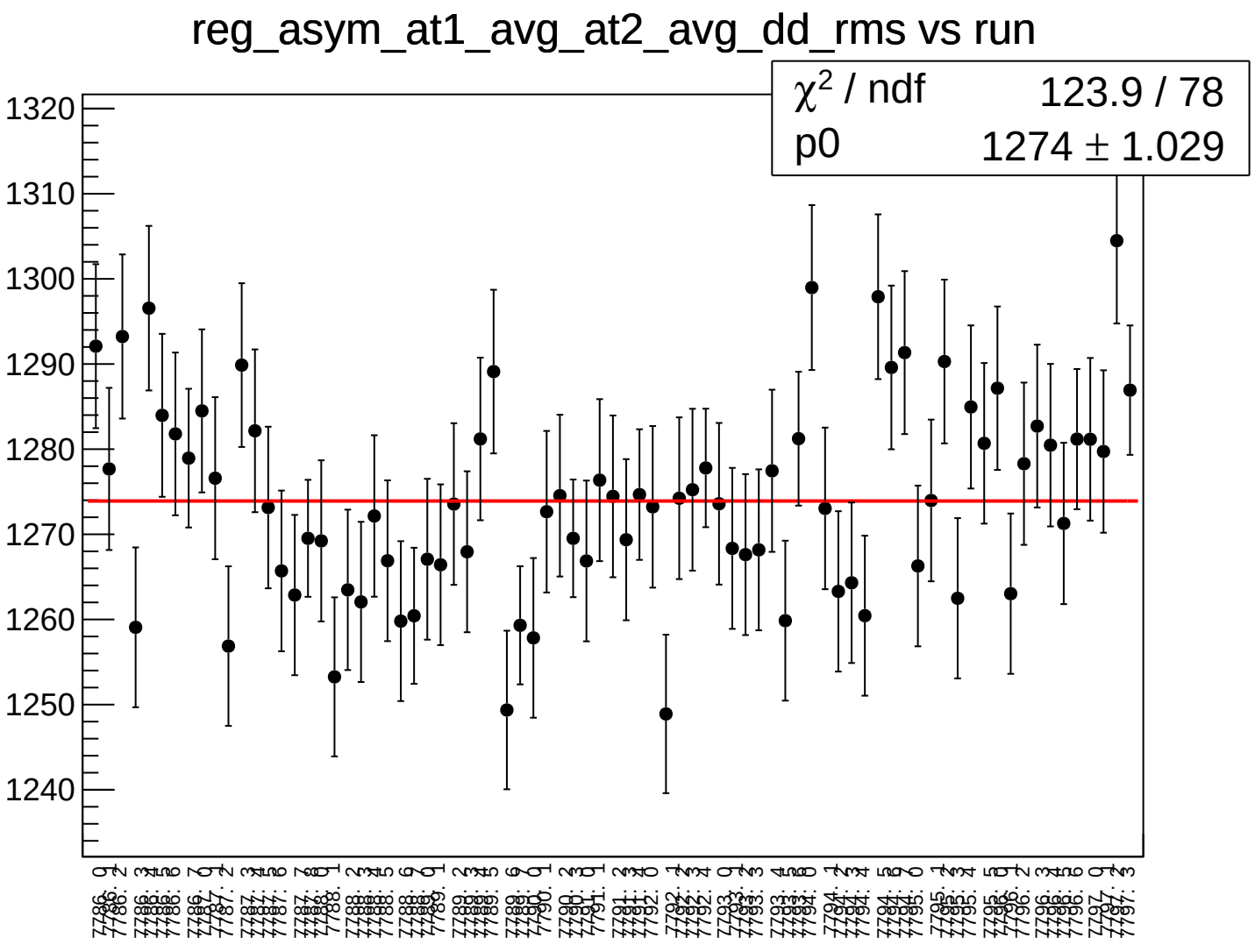

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 70.71 / 78
p0 1.883e−13 ± 1.57e−13
pull
Entries 79
Mean −18.92
Std Dev 0

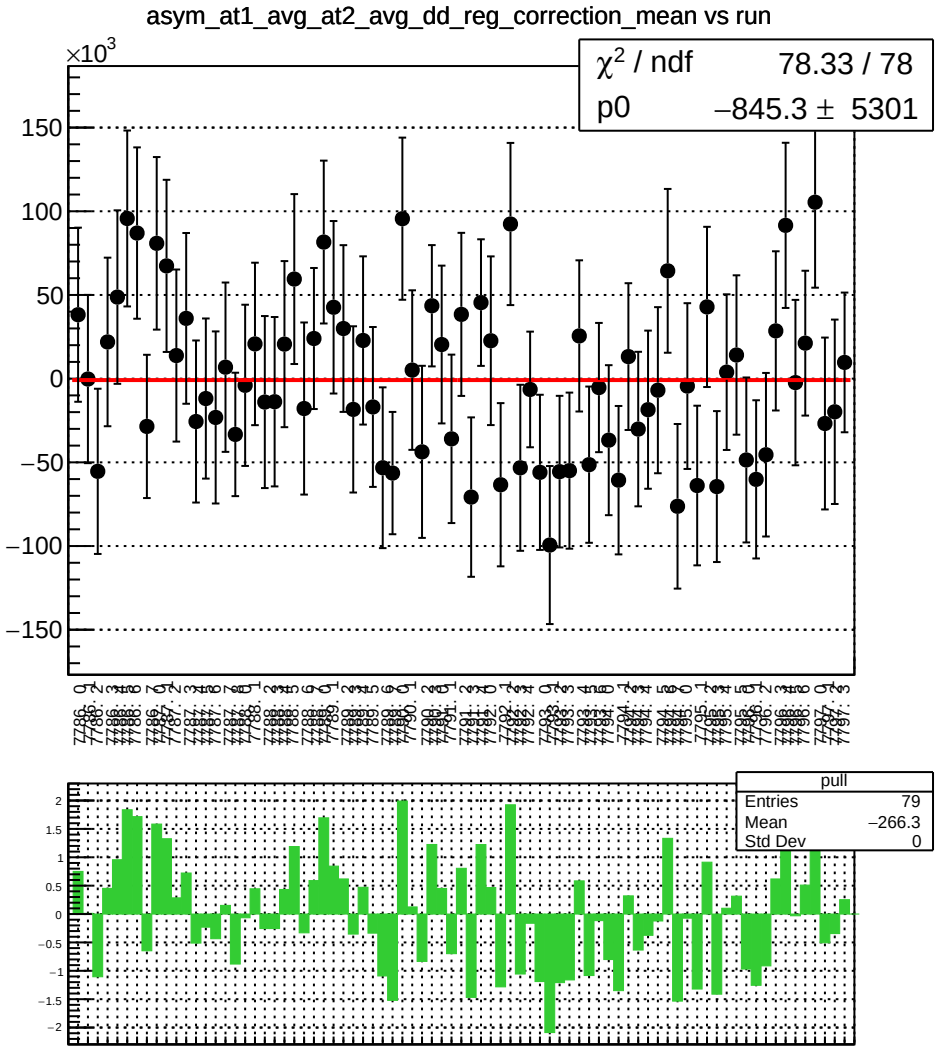

pull1D
Entries 79
Mean 0.08027
Std Dev 0.9427

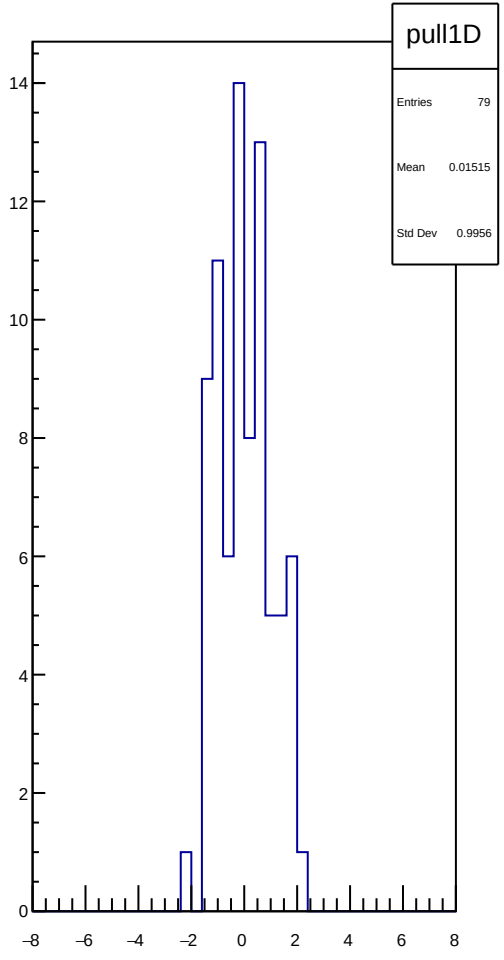

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.679e+05 / 78
p0 1.091e−10 ± 1.11e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

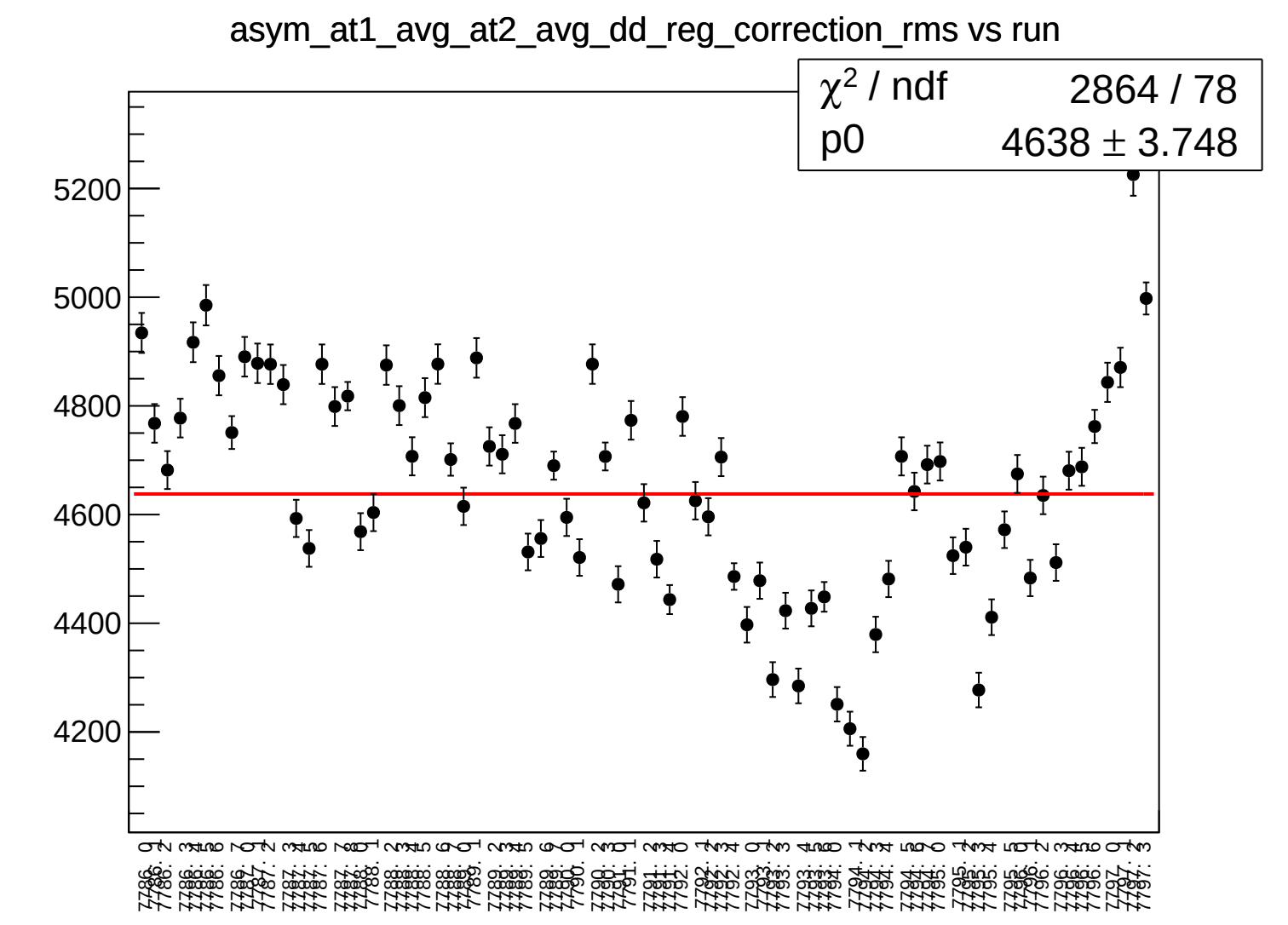

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 64.59 / 78
p0 −553.7 ± 1455
pull
Entries 79
Mean −237.3
Std Dev 0

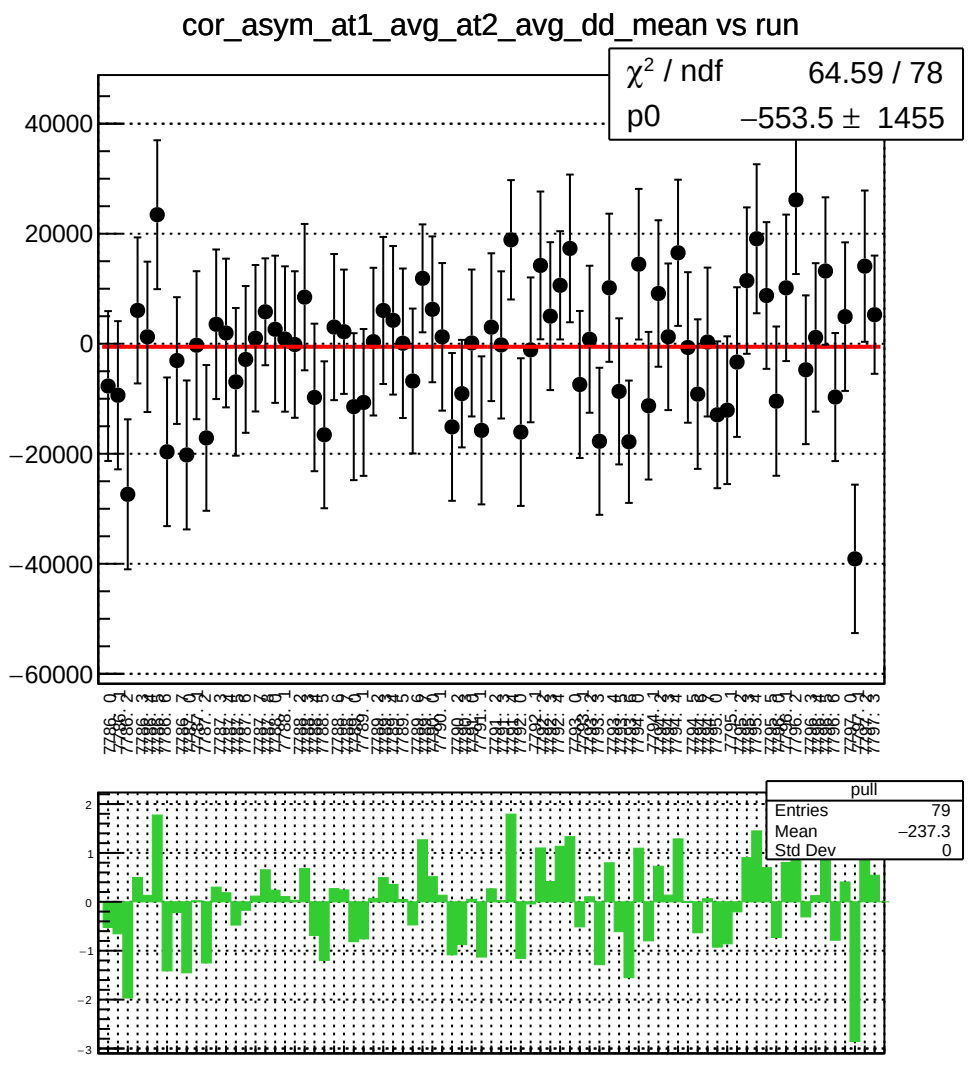

pull1D
Entries 79
Mean −0.0119
Std Dev 0.9041

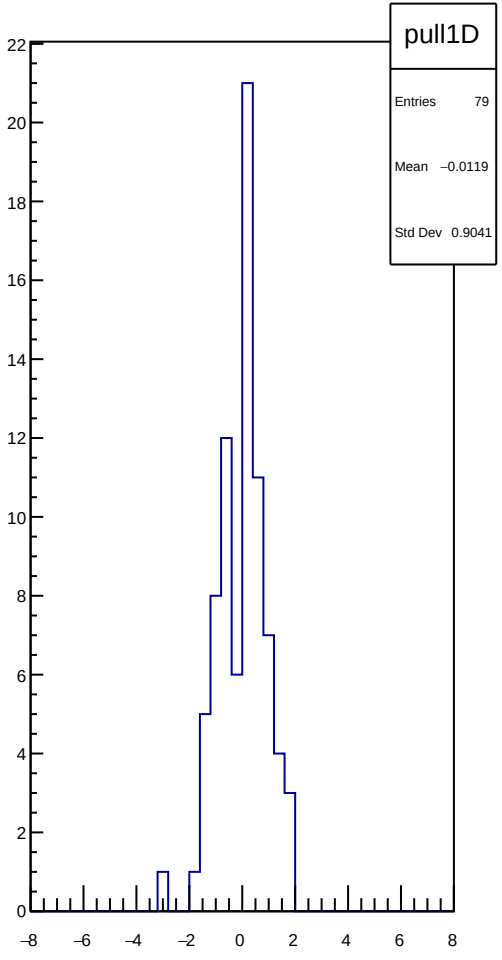

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 123.9 / 78
p0 1274 ± 1.029
1320
1310
1300
1290
1280
1270
1260
1250
1240

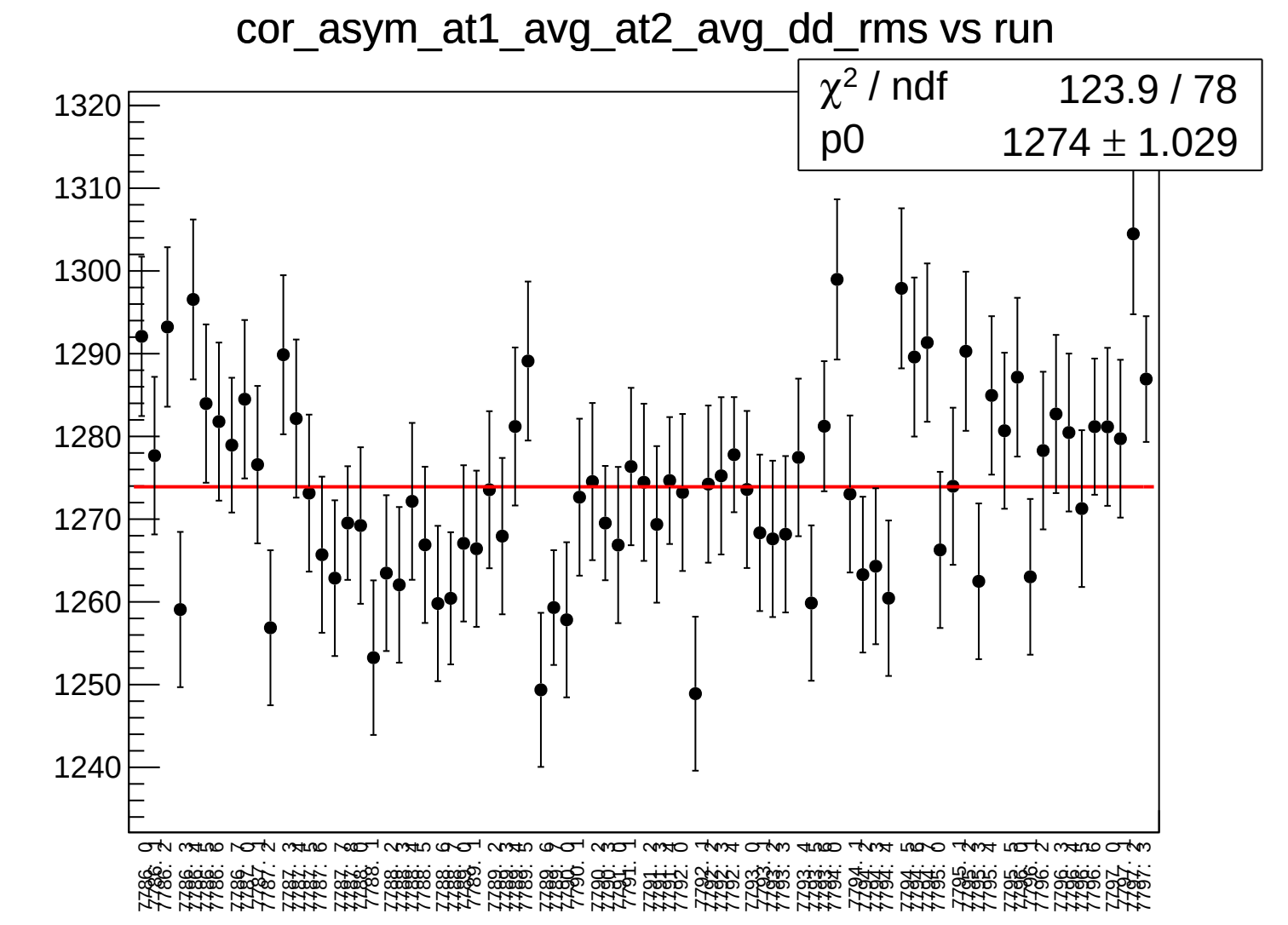

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.33 / 78
p0 −845.3 ± 5301
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −266.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

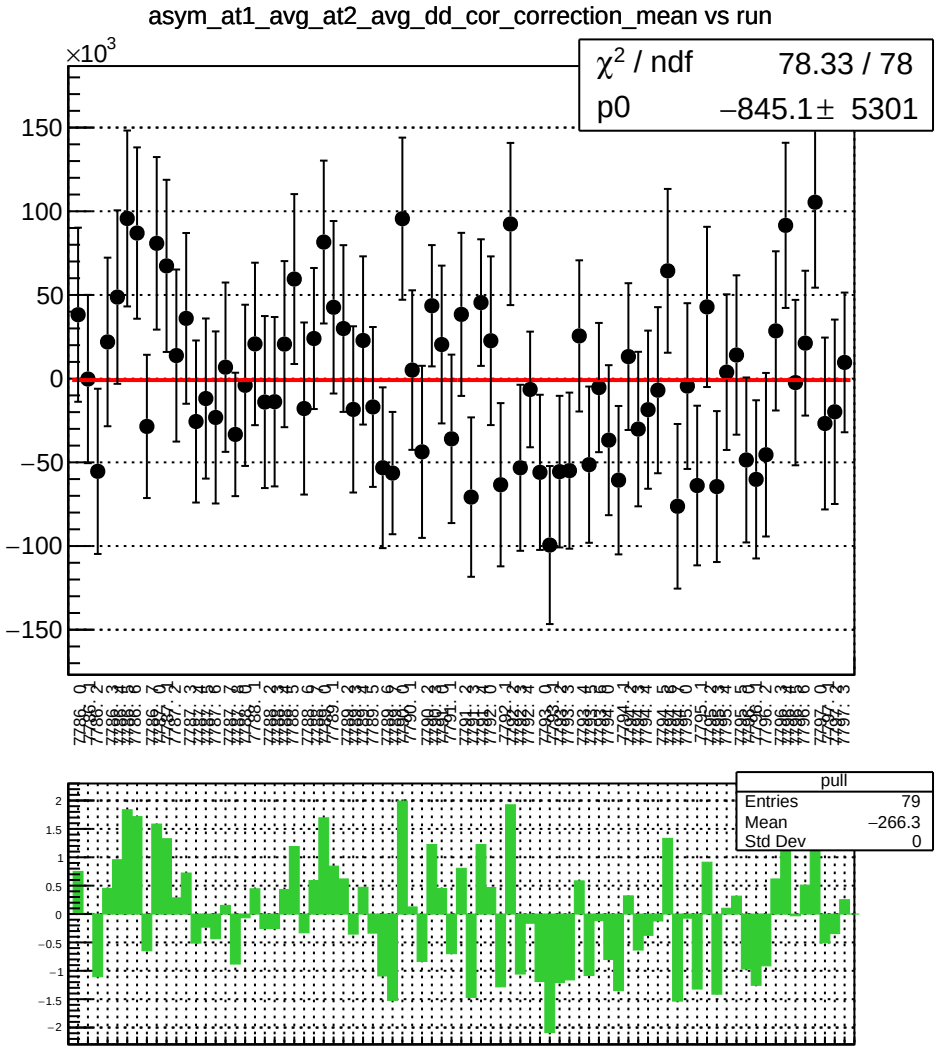

pull1D
Entries 79
Mean 0.01515
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

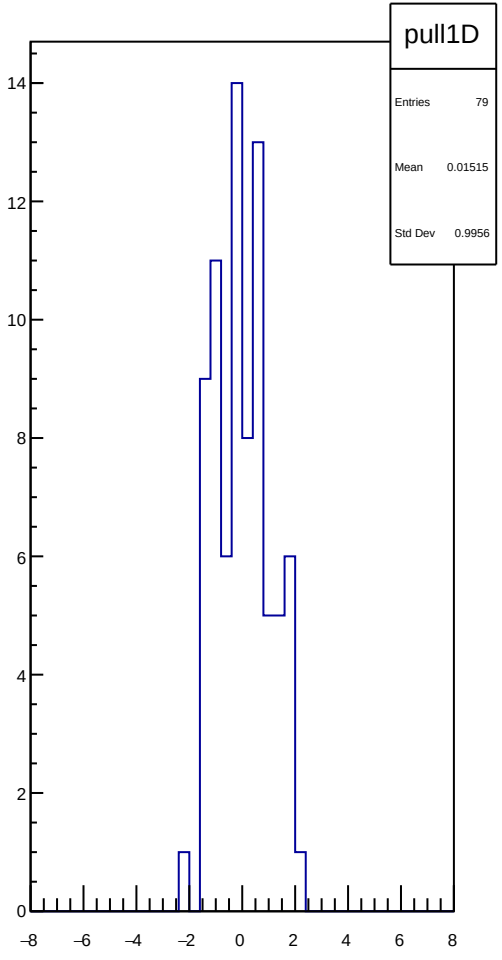

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 2864 / 78
p0 4638 ± 3.748
5200
5000
4800
4600
4400
4200

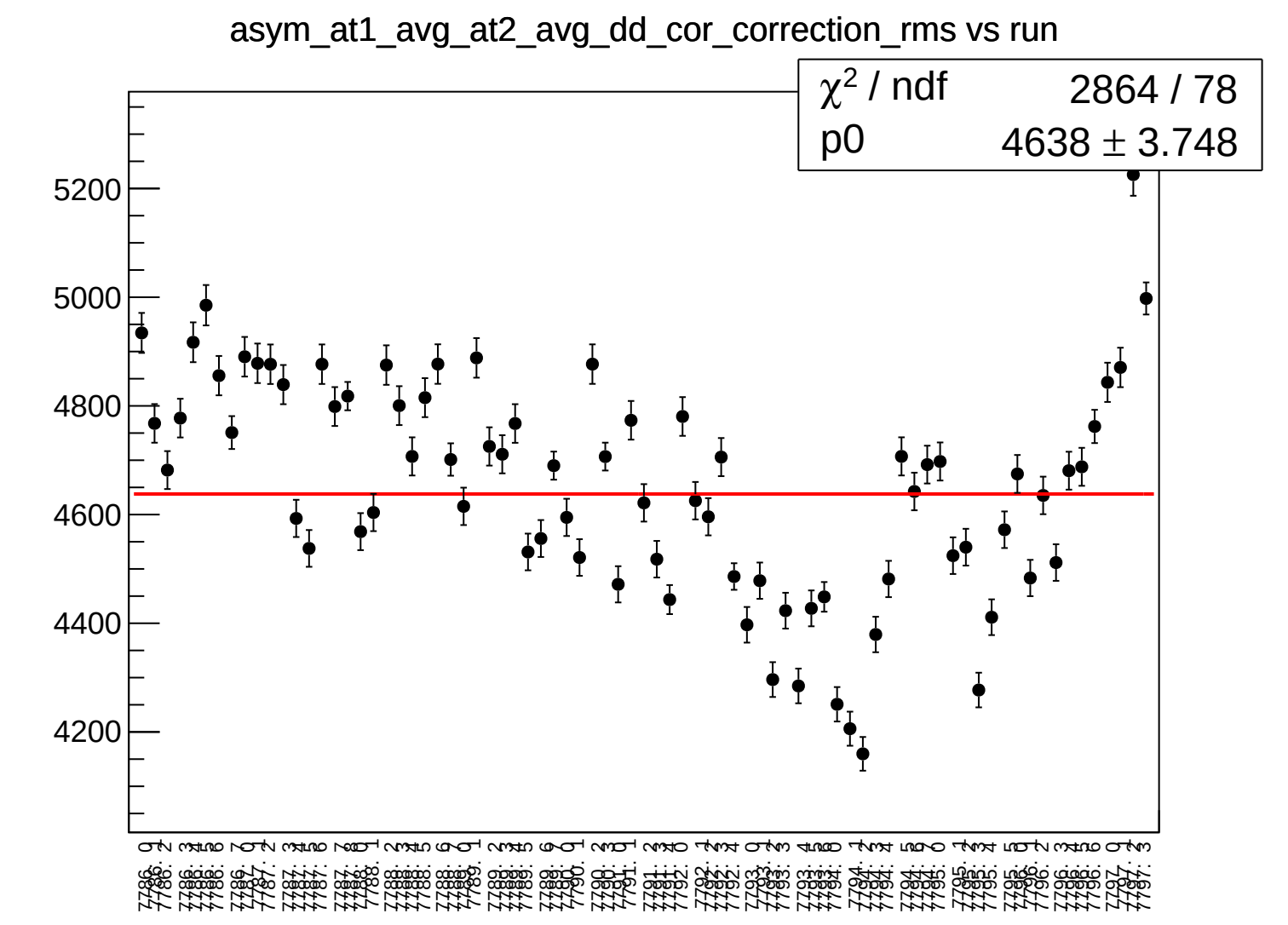

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 64.59 / 78
p0 −553.5 ± 1455
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −237.3
Std Dev 0
2
1
0
−1
−2
−3

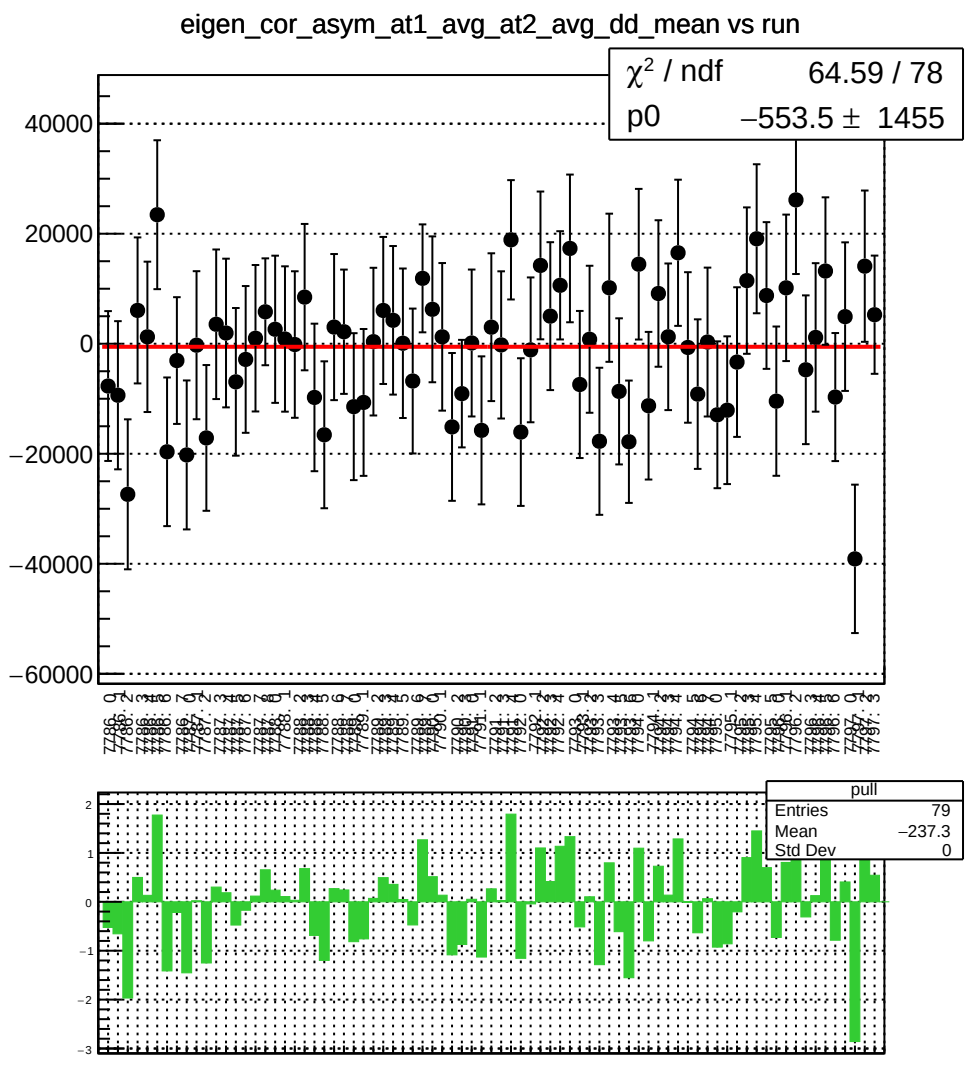

pull1D
Entries 79
Mean −0.0119
Std Dev 0.9041
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

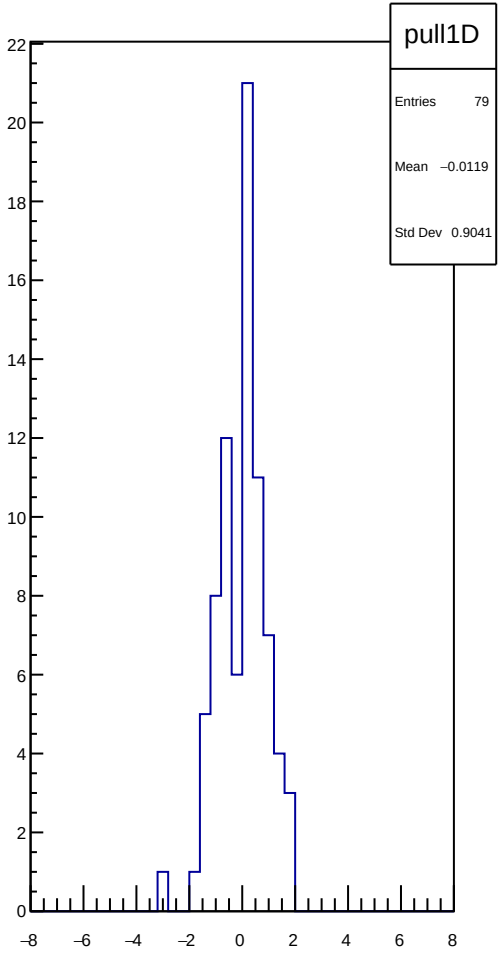

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 123.9 / 78
p0 1274 ± 1.029
1320
1310
1300
1290
1280
1270
1260
1250
1240

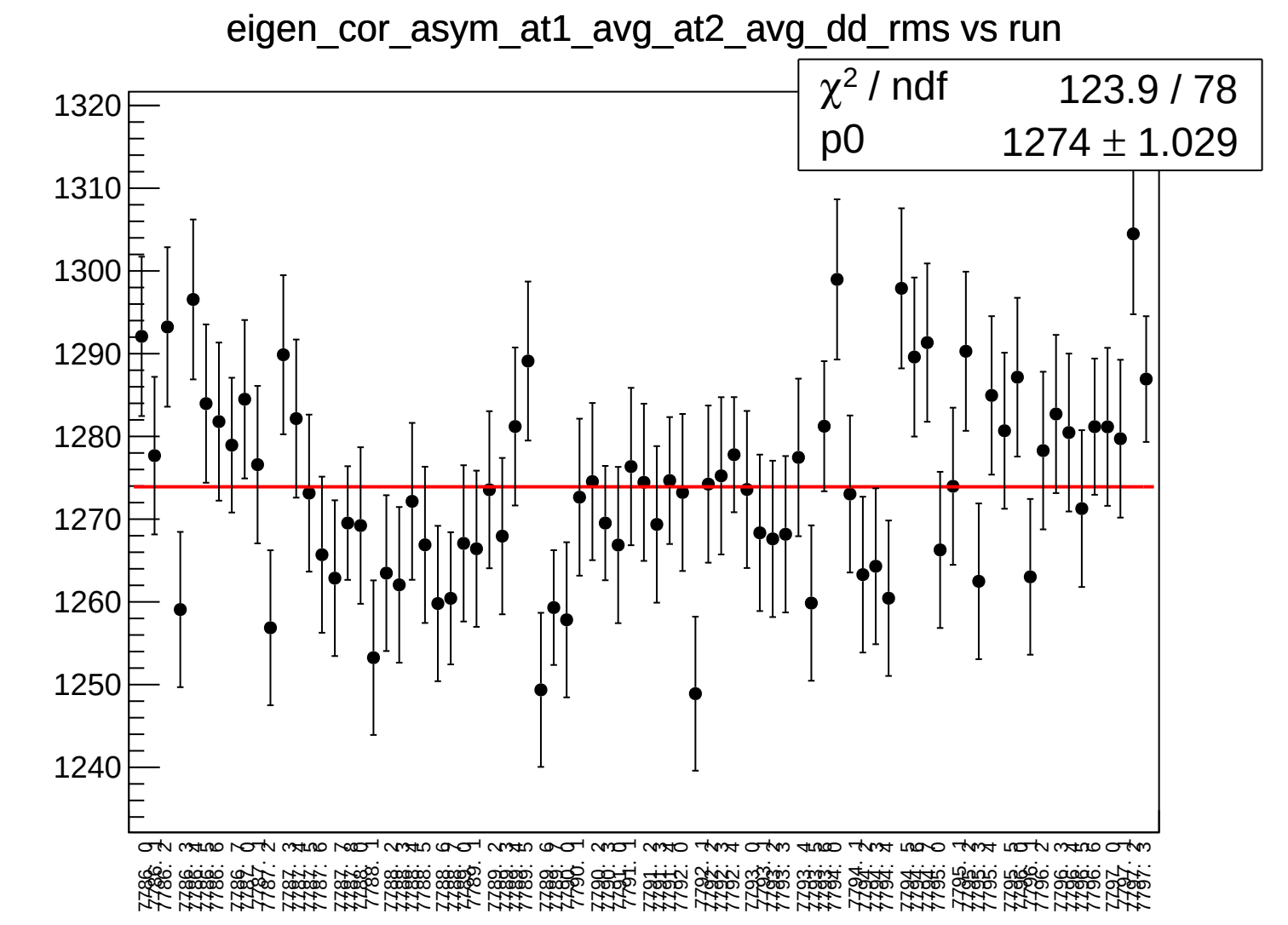

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.33 / 78
p0 −845.1± 5301
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −266.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

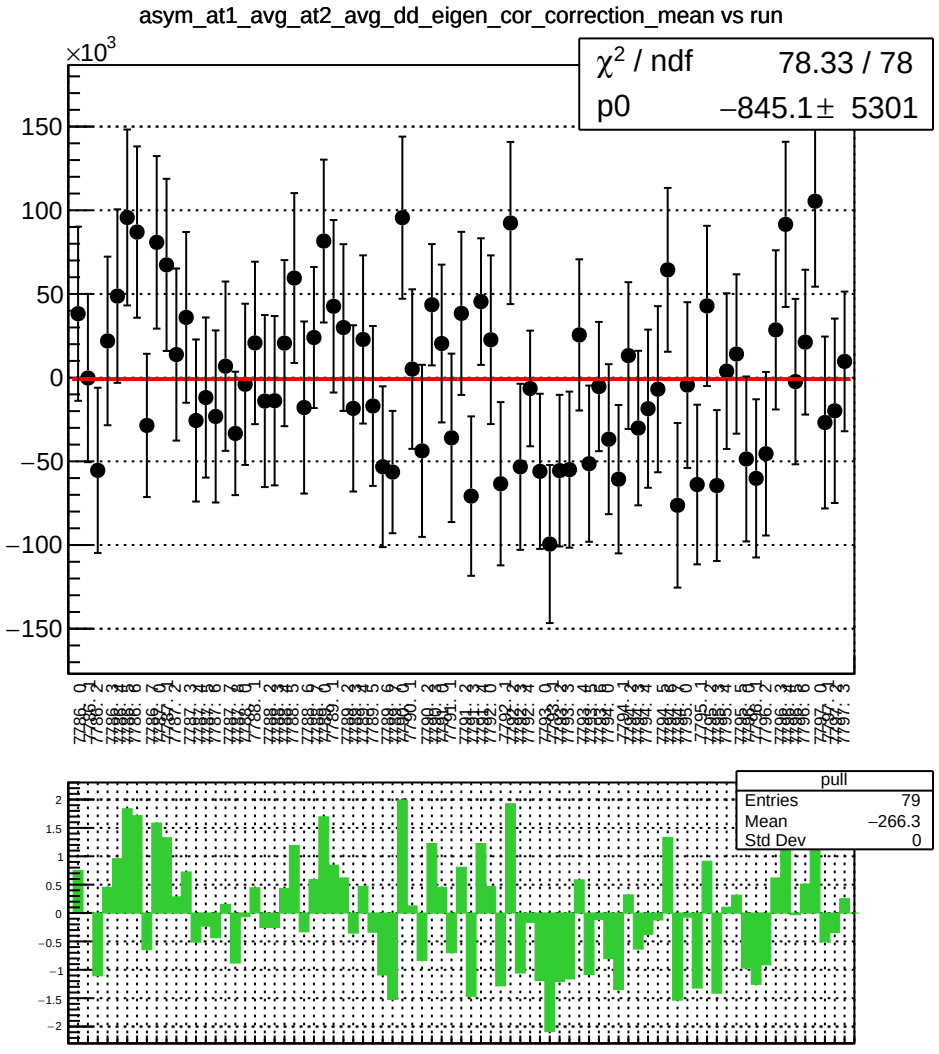

pull1D
Entries 79
Mean 0.01515
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

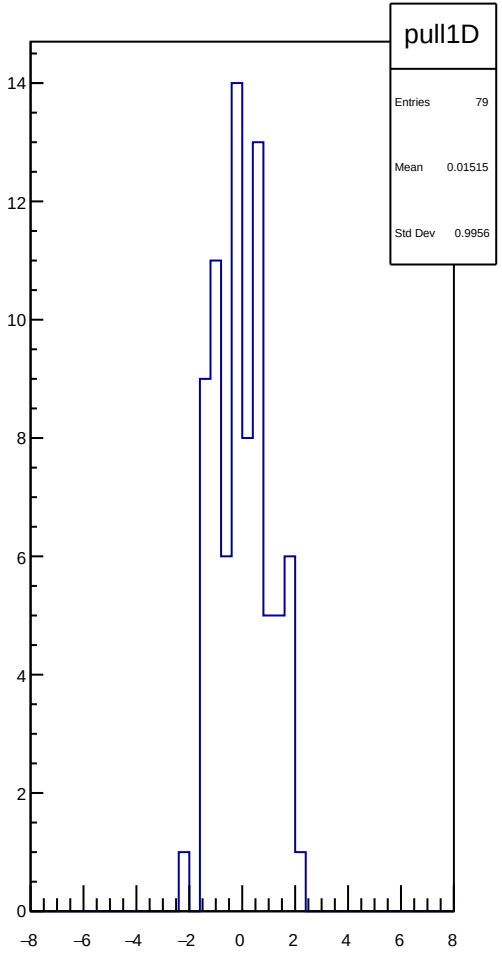

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 2864 / 78
p0 4638 ± 3.748
5200
5000
4800
4600
4400
4200

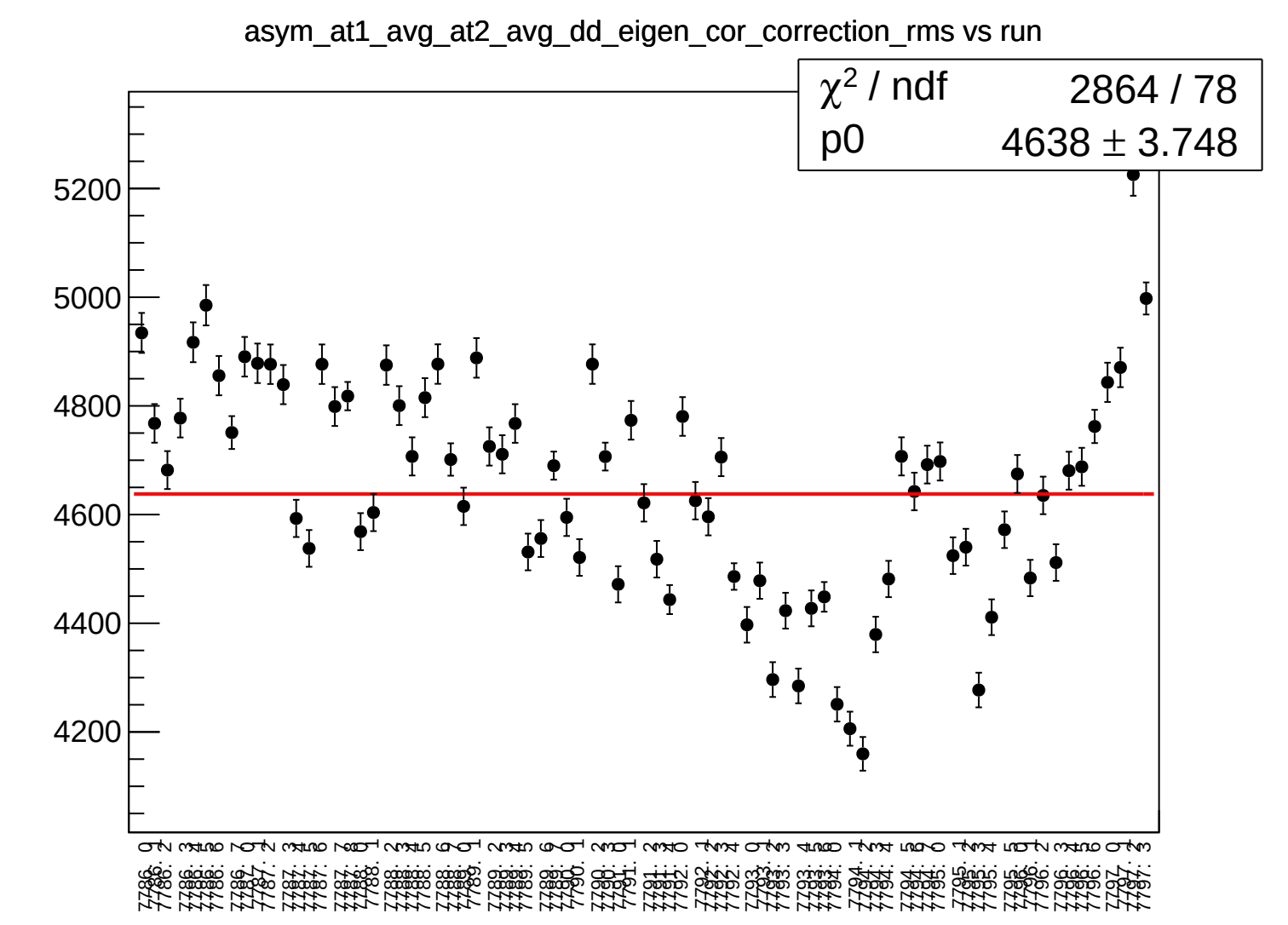

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 64.59 / 78
p0 −553.5 ± 1455
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −237.3
Std Dev 0
2
1
0
−1
−2
−3

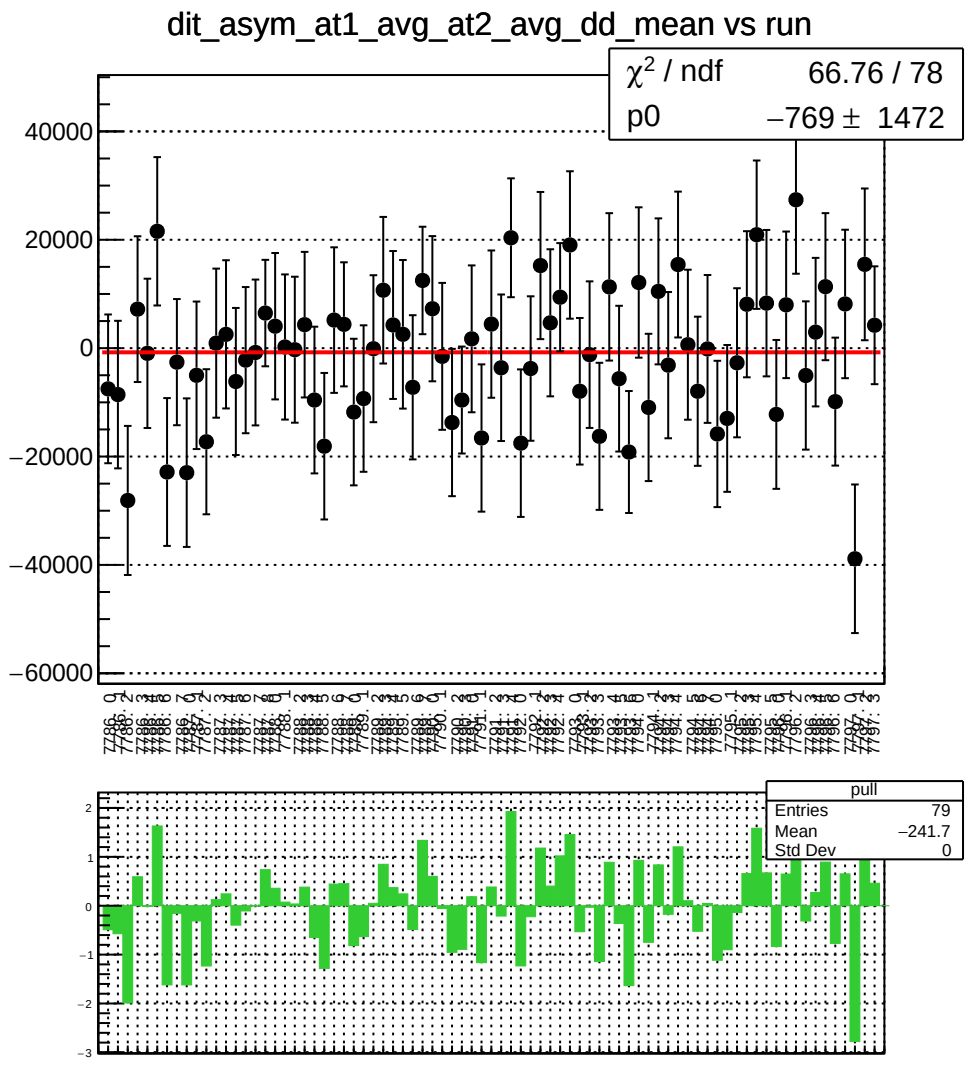

pull1D
Entries 79
Mean −0.0119
Std Dev 0.9041
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

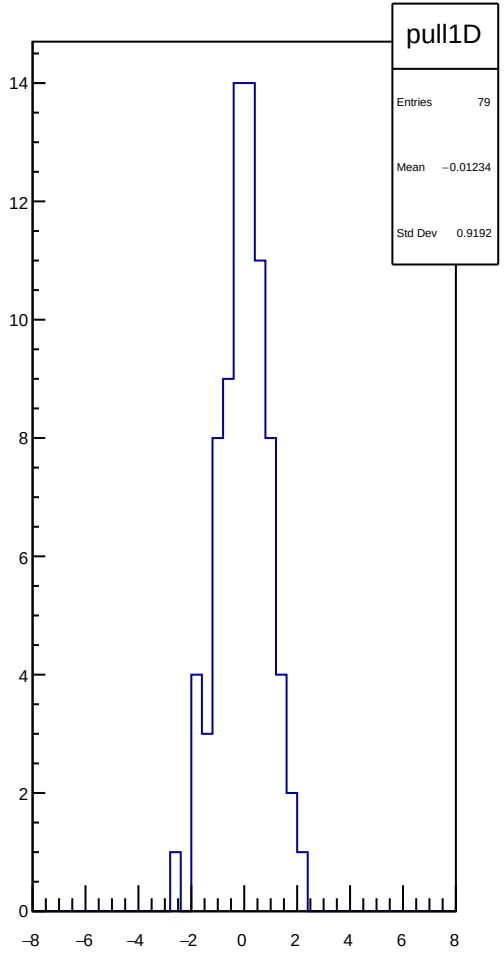

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 123.9 / 78
p0 1274 ± 1.029
1320
1310
1300
1290
1280
1270
1260
1250
1240

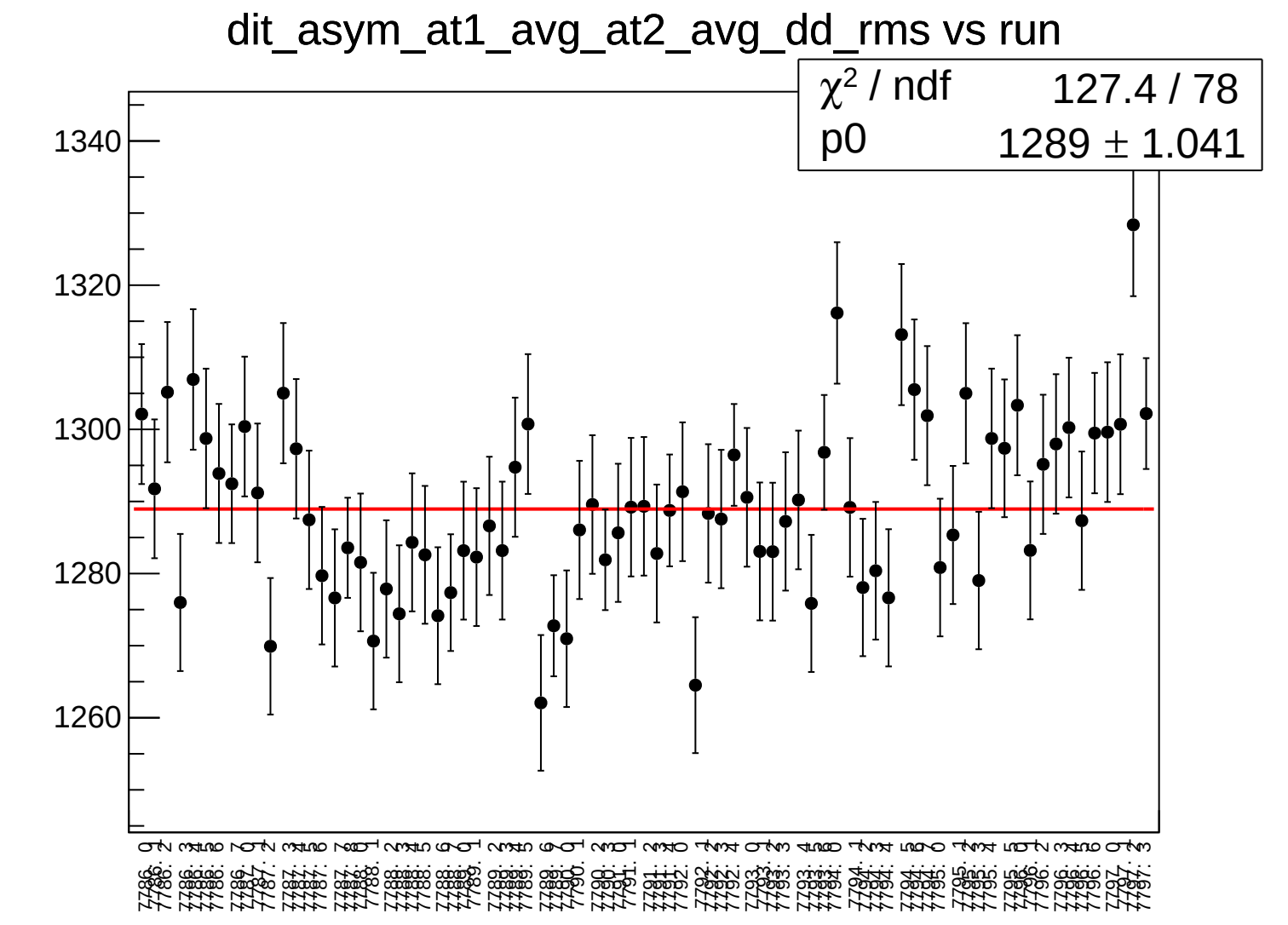

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.33 / 78
p0 −845.1± 5301
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −266.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

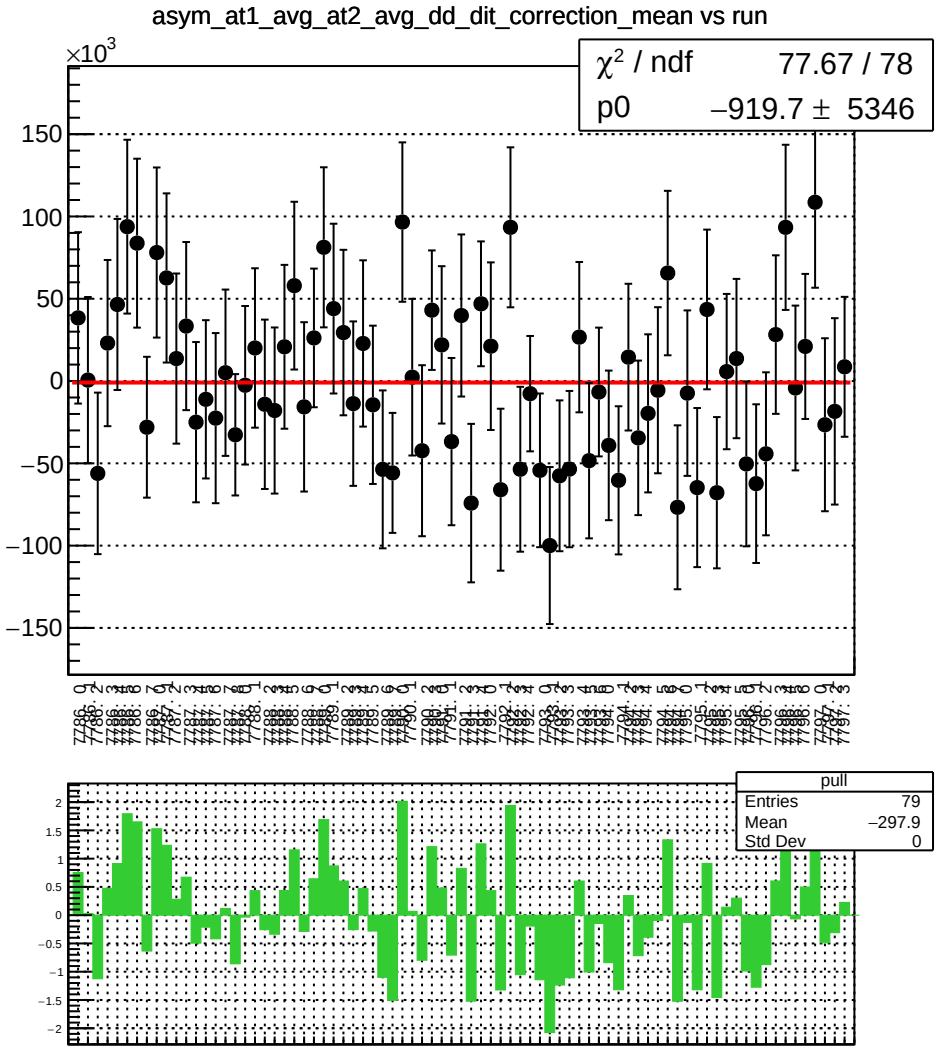

pull1D
Entries 79
Mean 0.01515
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

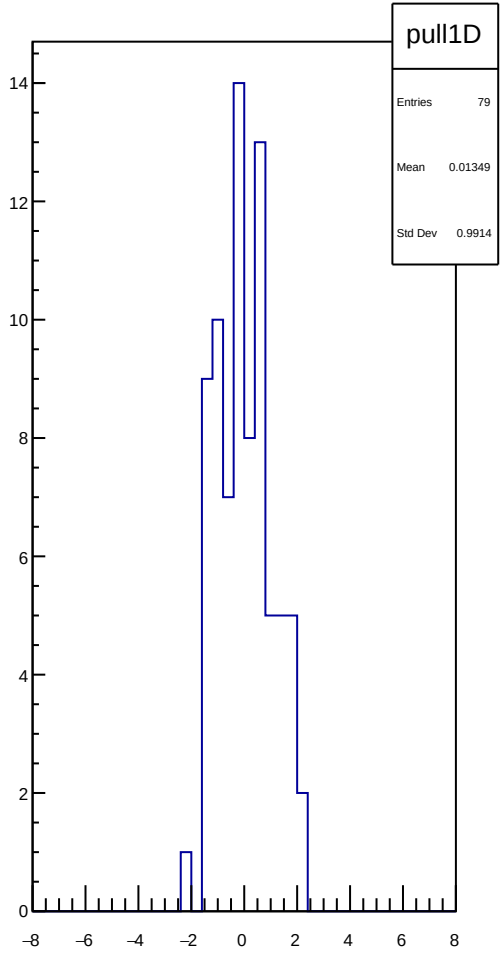

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2864 / 78
p0 4638 ± 3.748
5200
5000
4800
4600
4400
4200

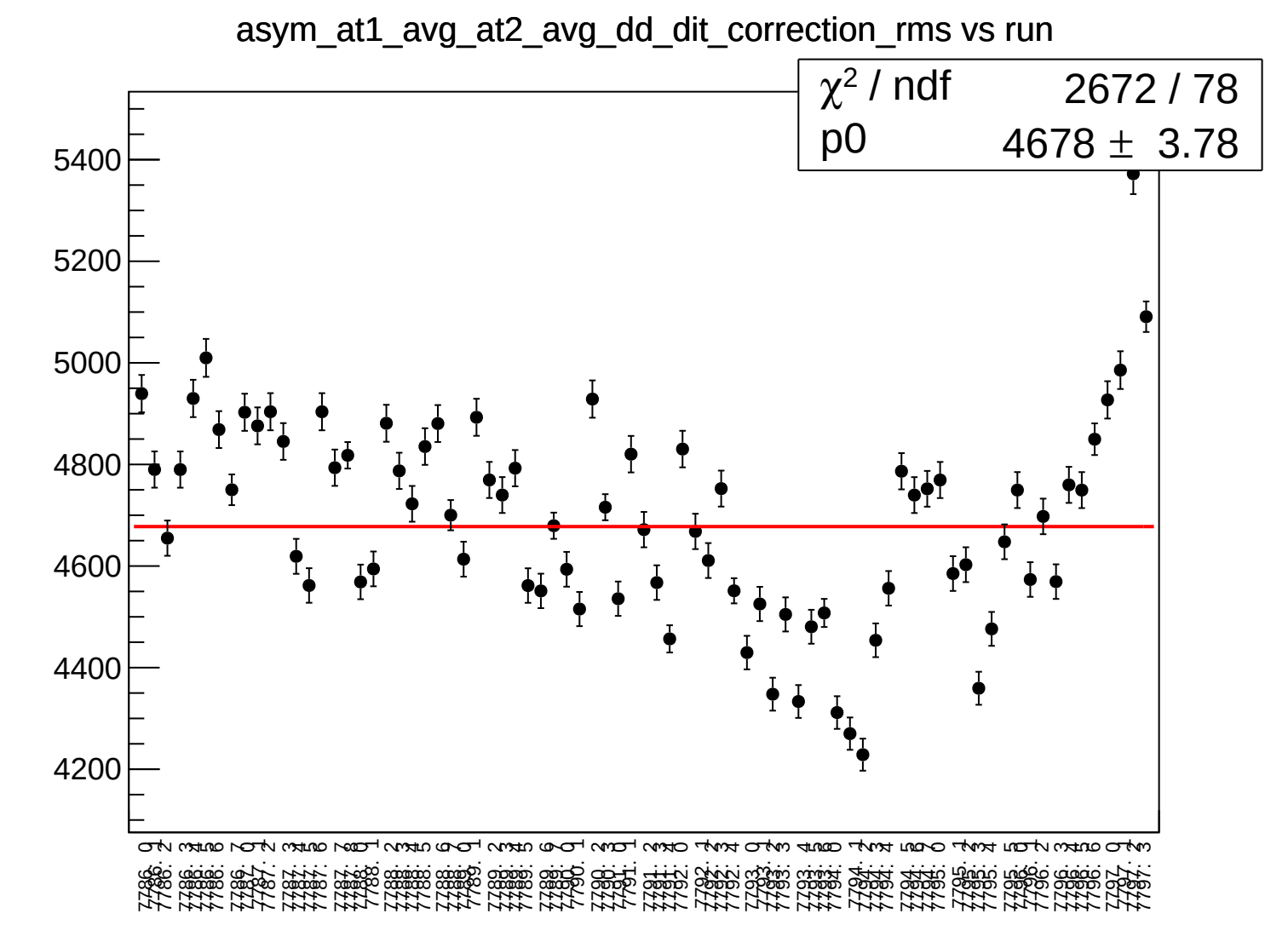

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 66.76 / 78
p0 −769 ± 1472
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −241.7
Std Dev 0
2
1
0
−1
−2
−3

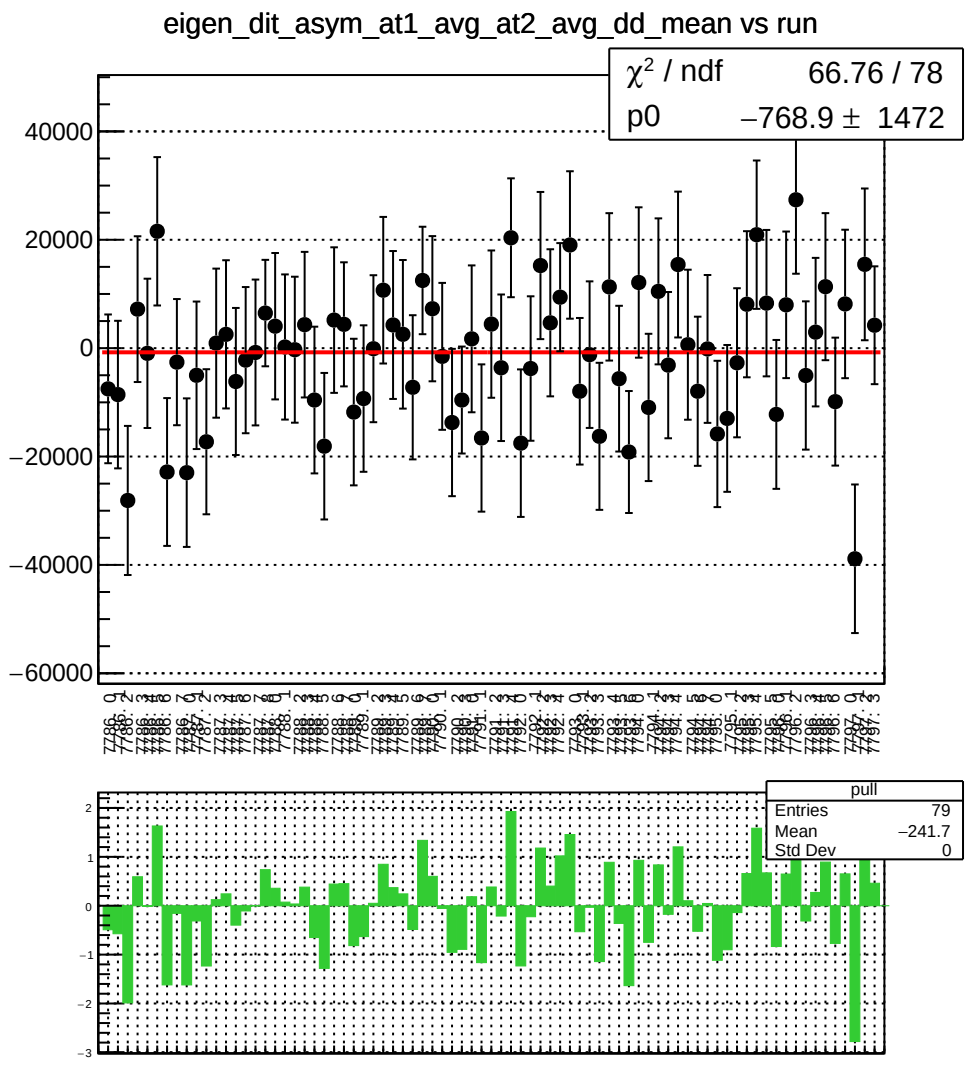

pull1D
Entries 79
Mean −0.01234
Std Dev 0.9192
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

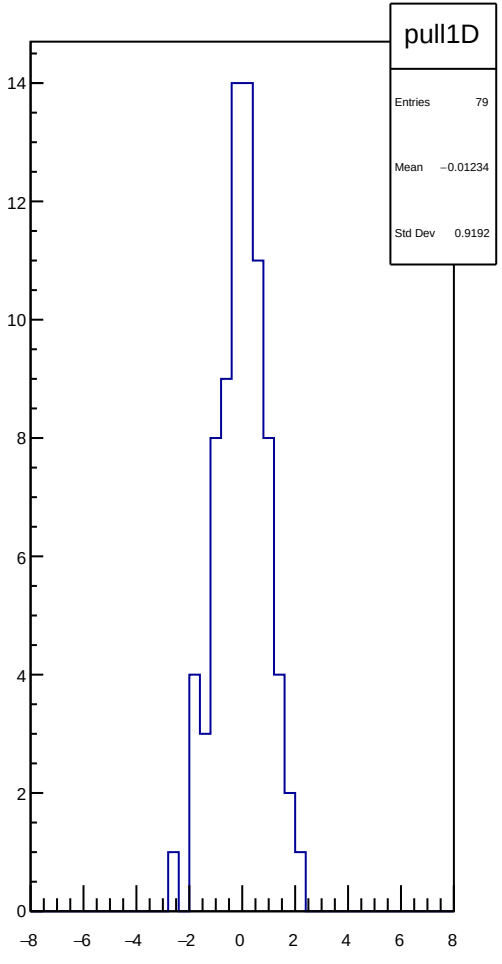

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 127.4 / 78
p0 1289 ± 1.041
1340
1320
1300
1280
1260

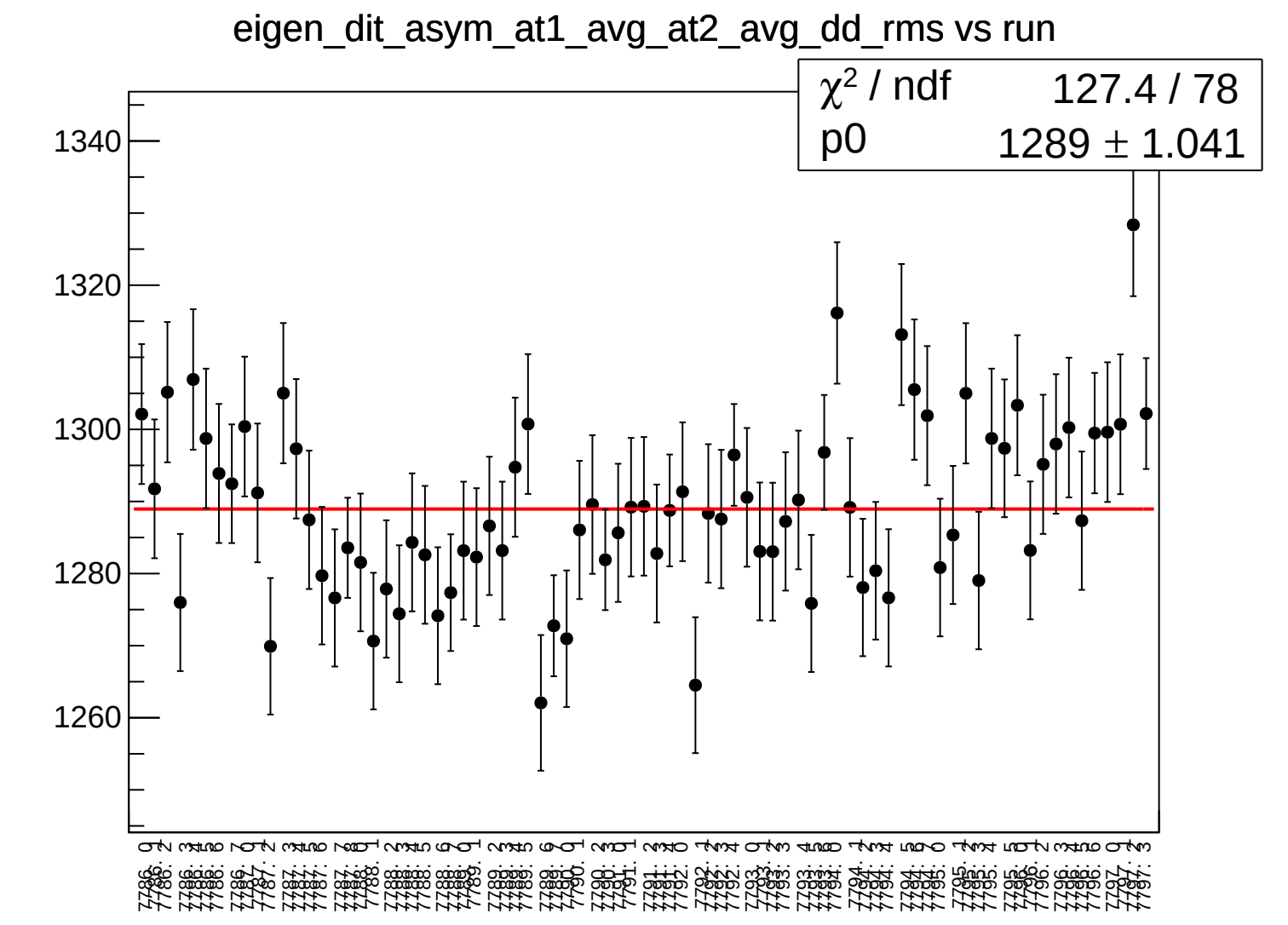

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.67 / 78
p0 −919.7 ± 5346
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −297.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

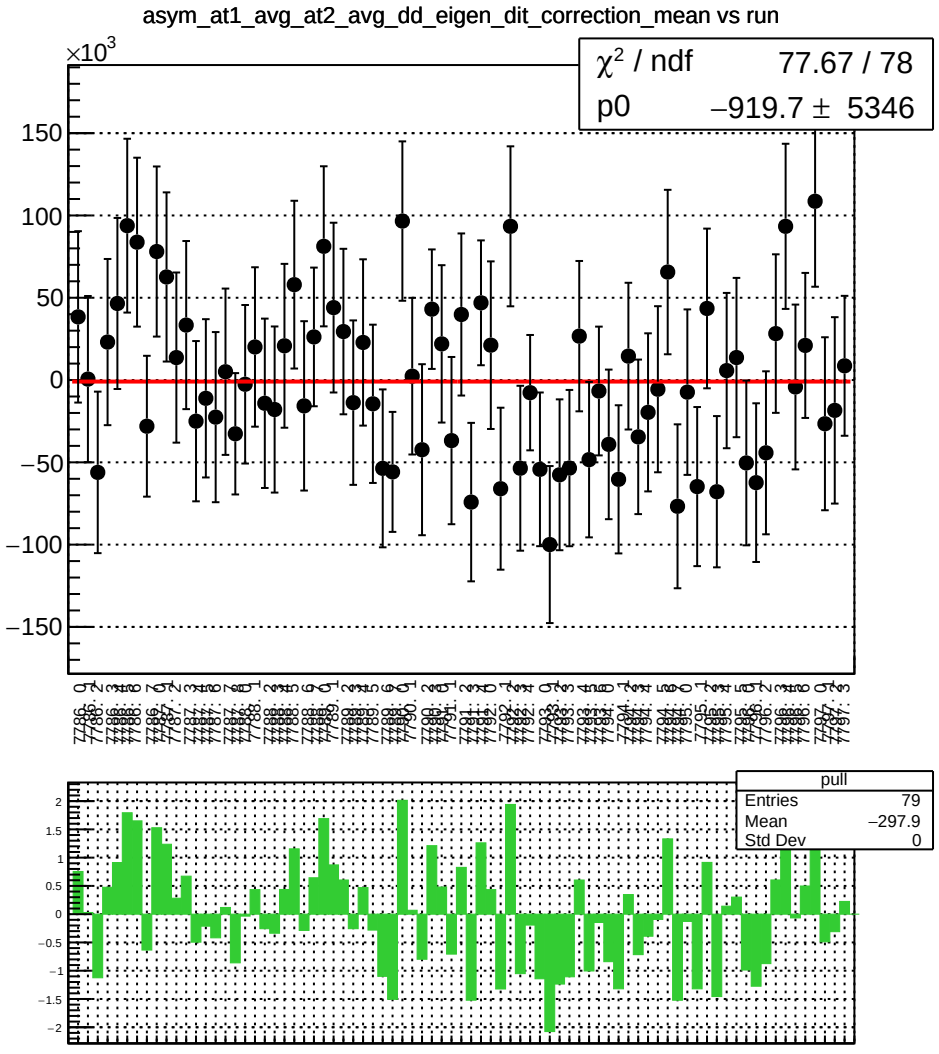

pull1D
Entries 79
Mean 0.01349
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

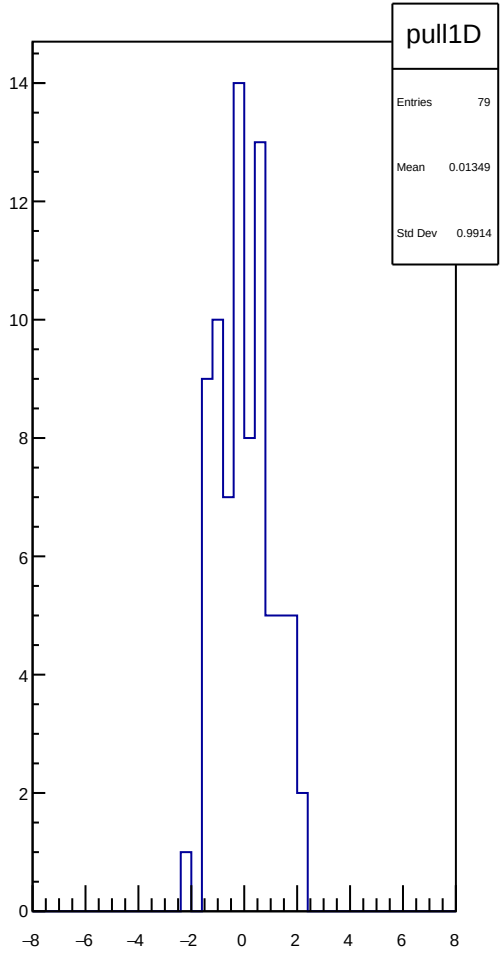

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 2672 / 78
p0 4678 ± 3.78
5400
5200
5000
4800
4600
4400
4200

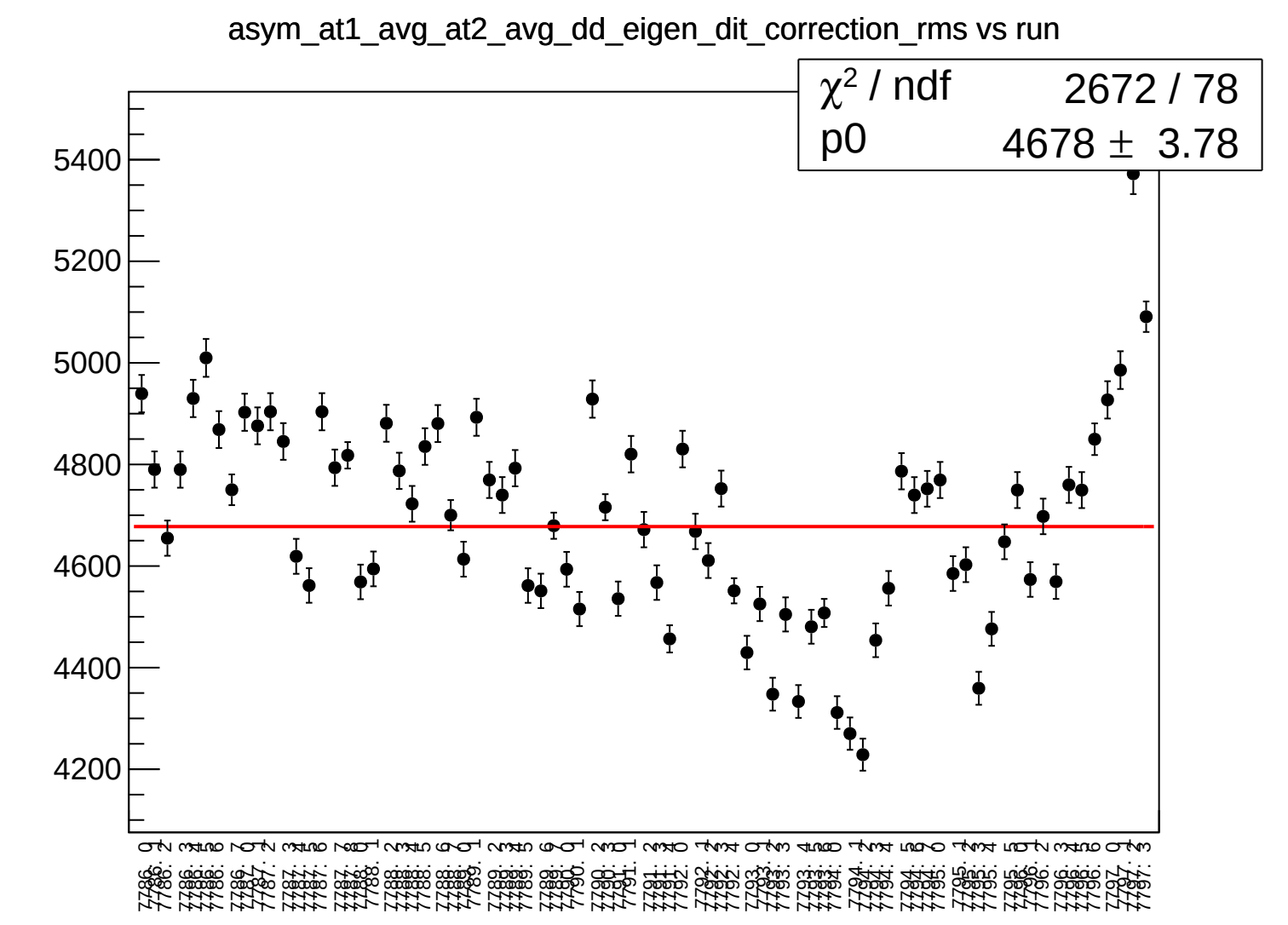

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 66.76 / 78
p0 −768.9 ± 1472
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −241.7
Std Dev 0
2
1
0
−1
−2
−3

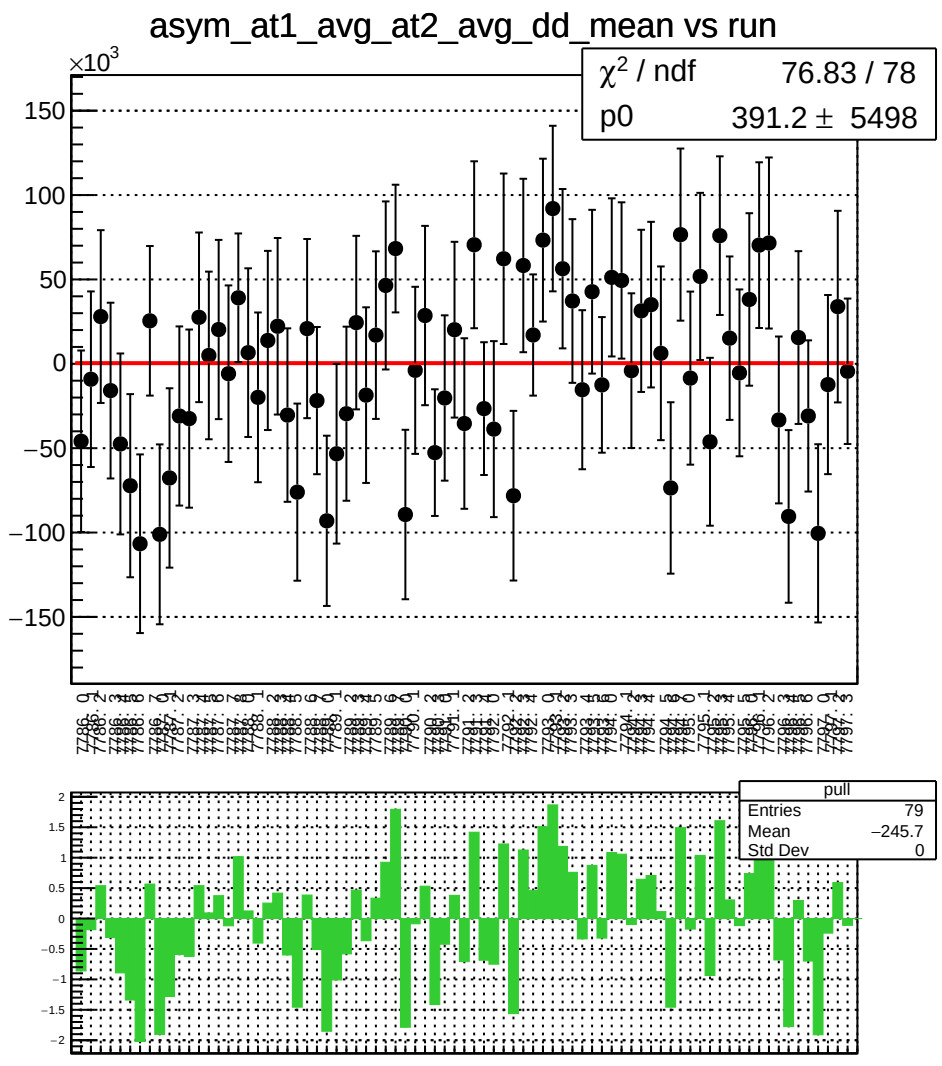

pull1D
Entries 79
Mean −0.01234
Std Dev 0.9192
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

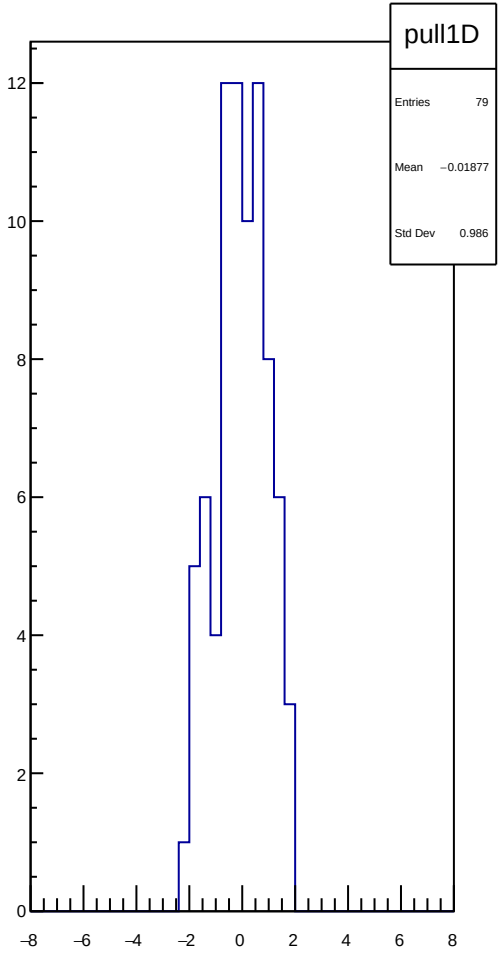

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 127.4 / 78
p0 1289 ± 1.041
1340
1320
1300
1280
1260

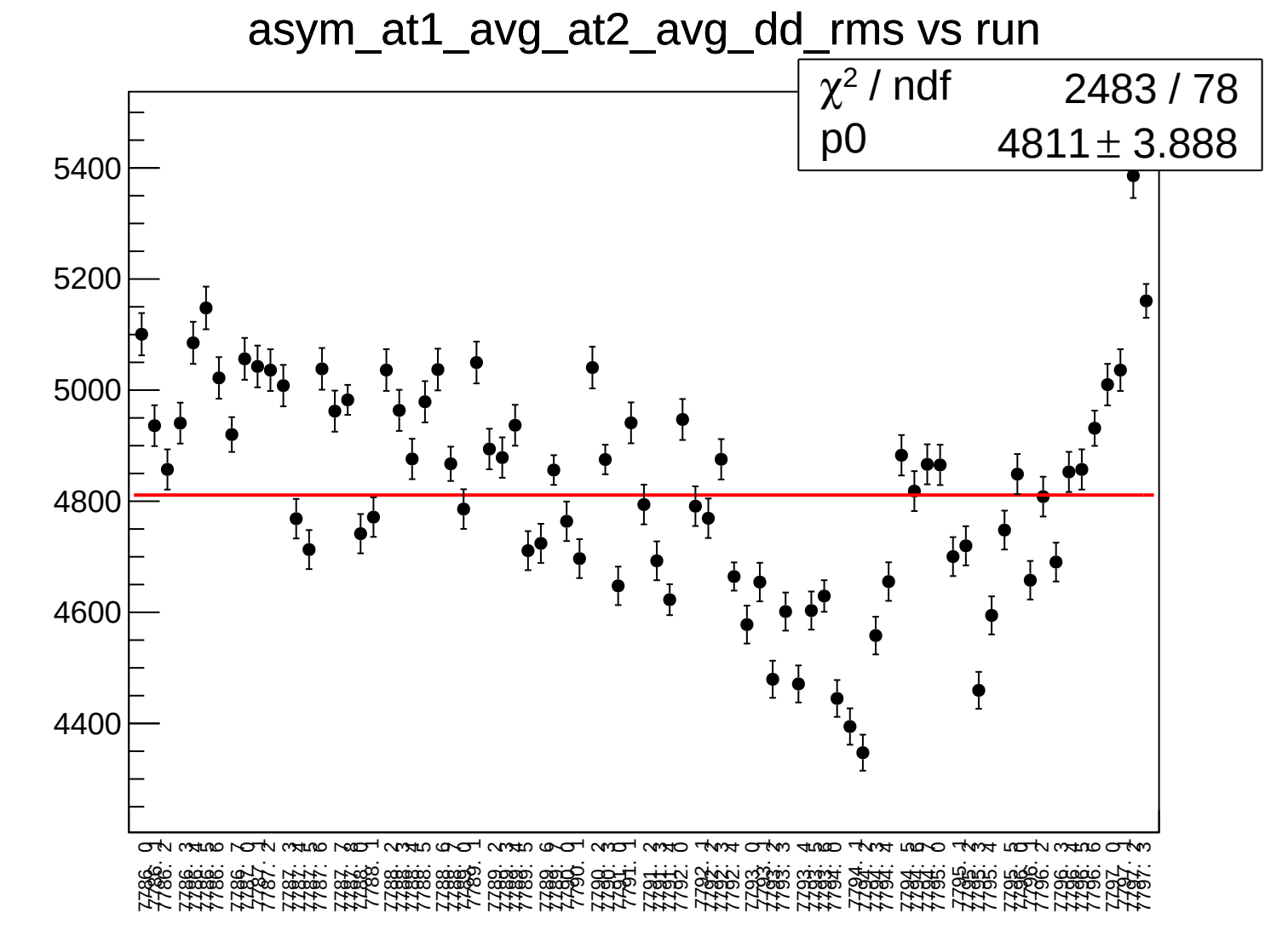

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.67 / 78
p0 −919.7 ± 5346
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −297.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

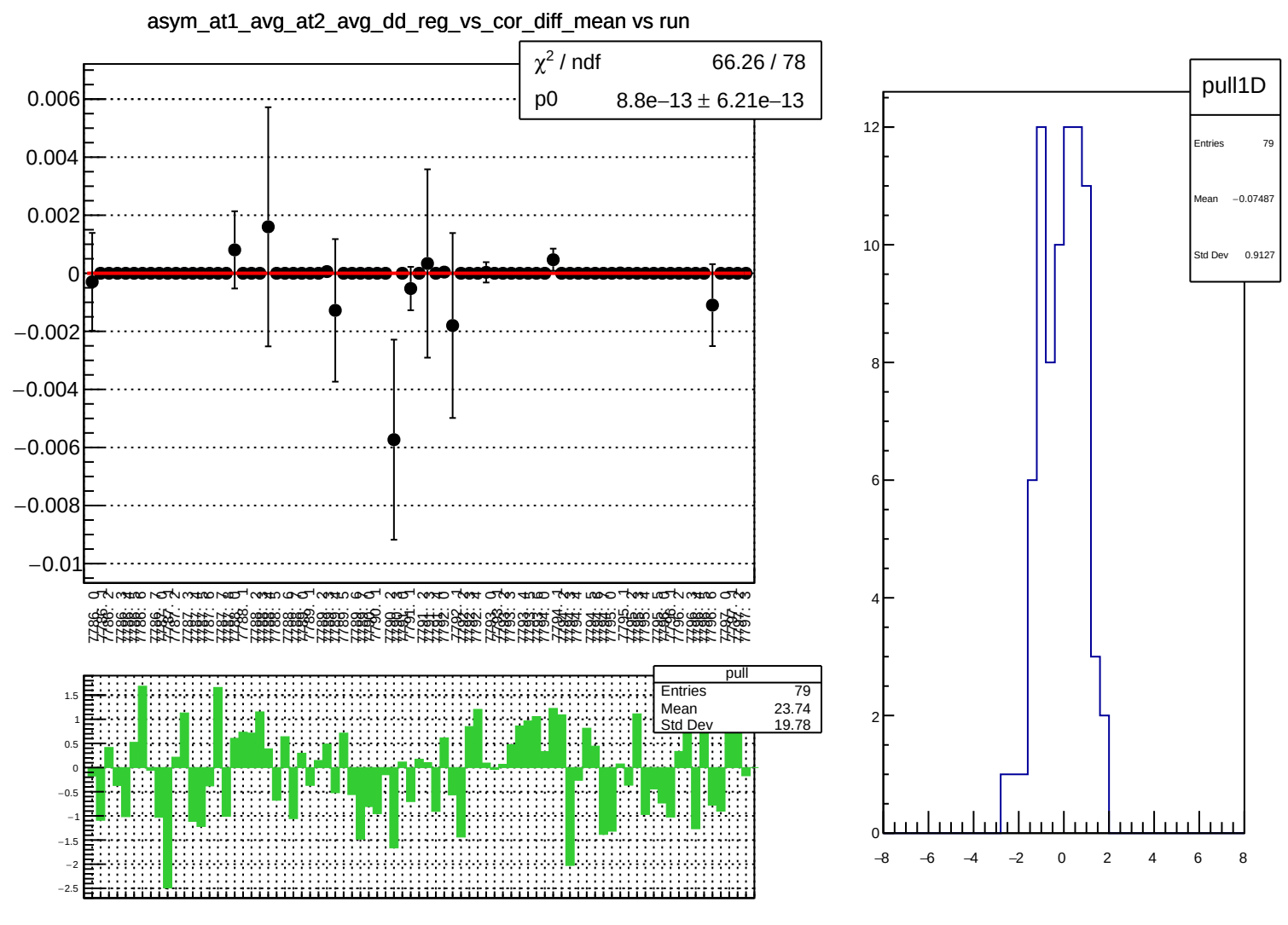

pull1D
Entries 79
Mean 0.01349
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

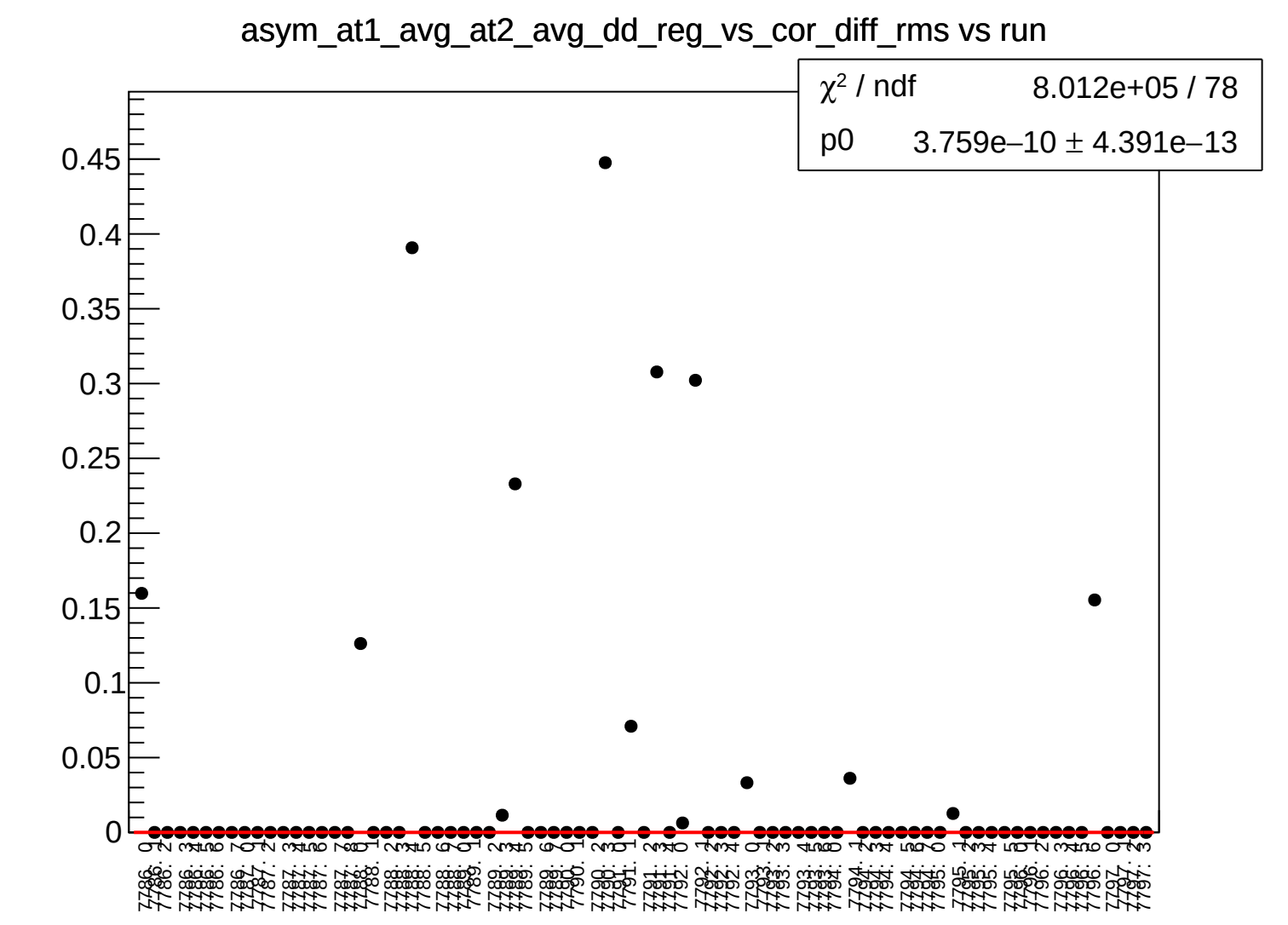

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2672 / 78
p0 4678 ± 3.78
5400
5200
5000
4800
4600
4400
4200

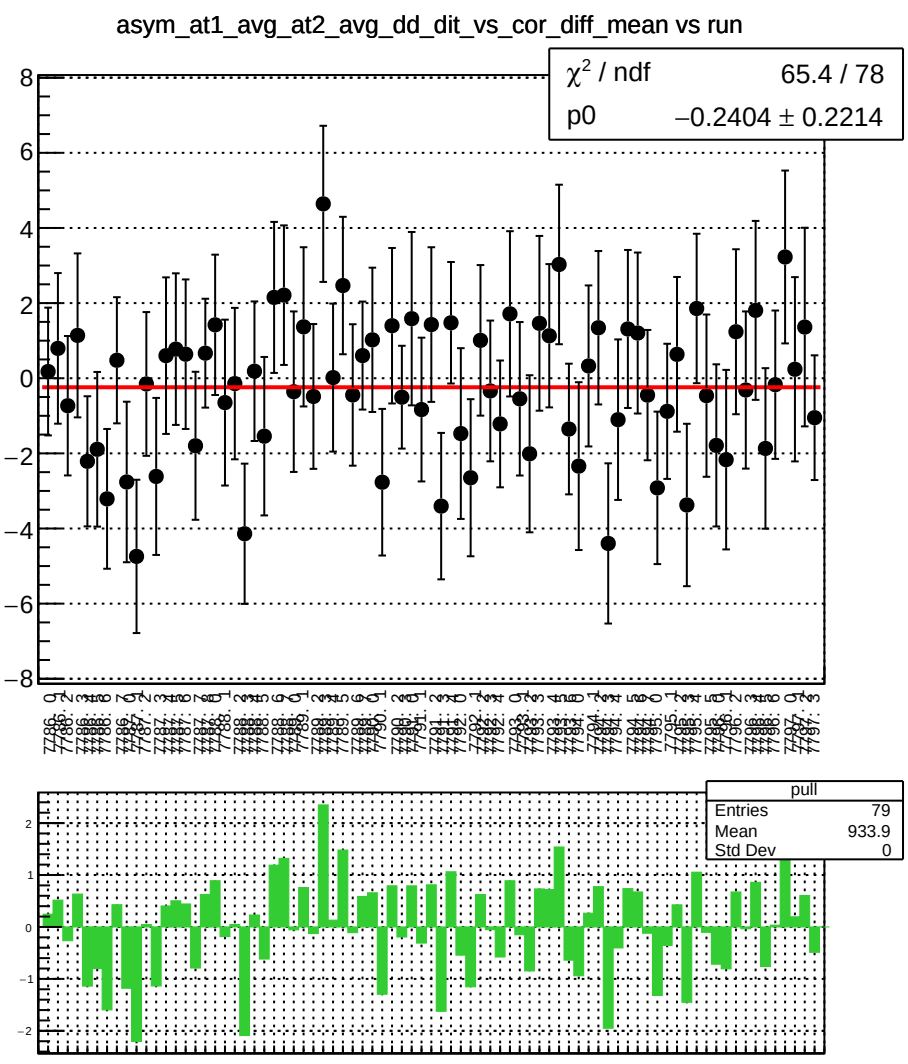

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 76.83 / 78
p0 391.2 ± 5498
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −245.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

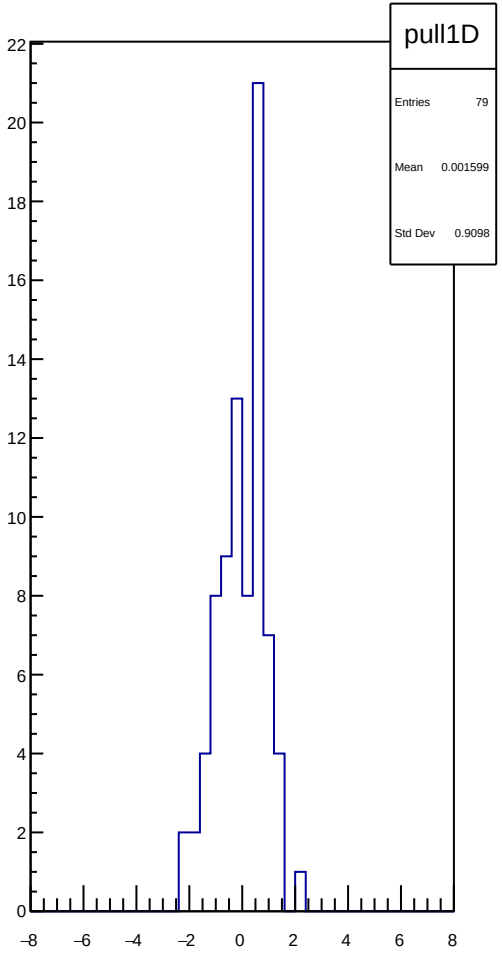

pull1D
Entries 79
Mean −0.01877
Std Dev 0.986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

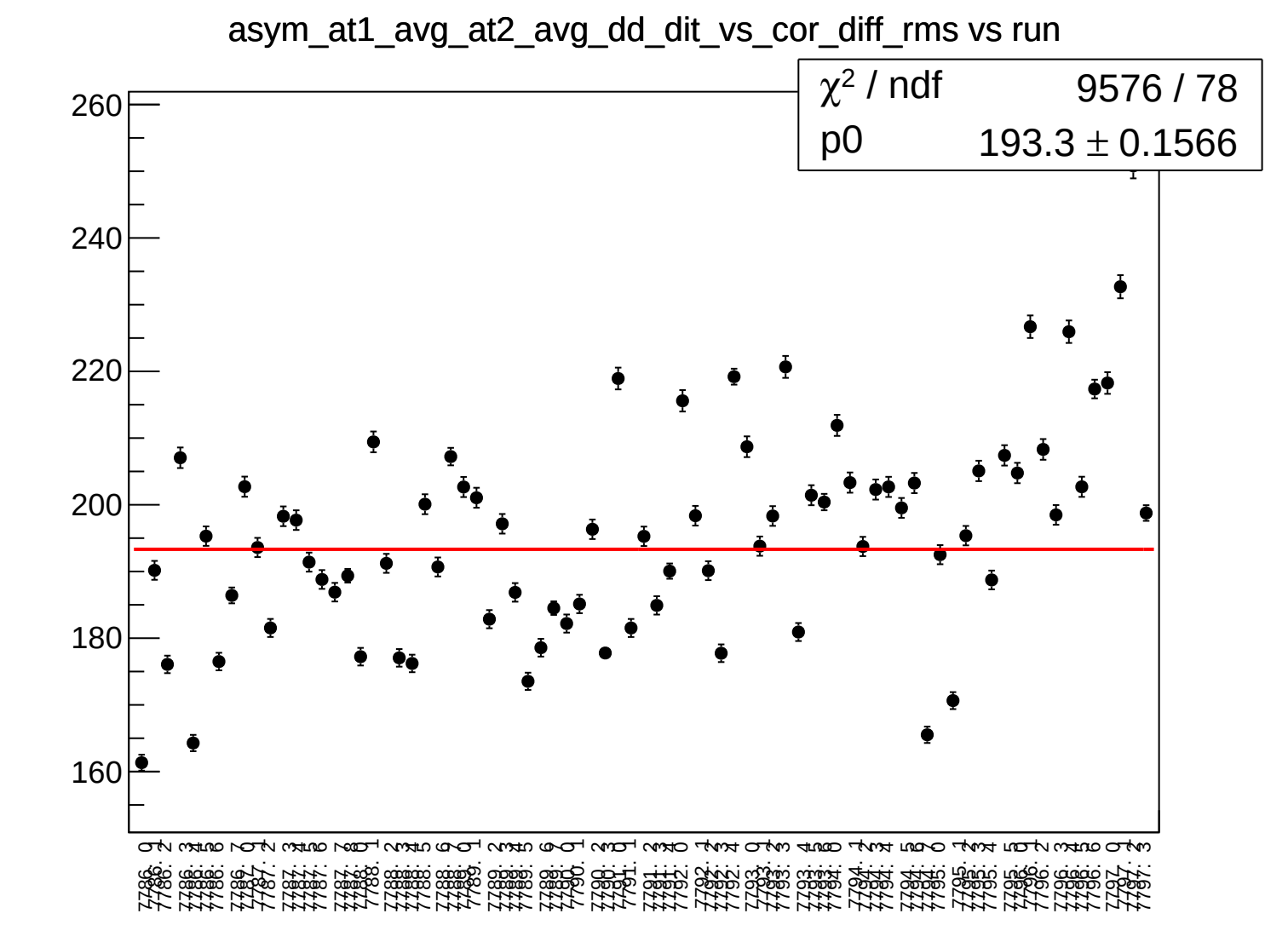

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2483 / 78
p0 4811 ± 3.888
5400
5200
5000
4800
4600
4400

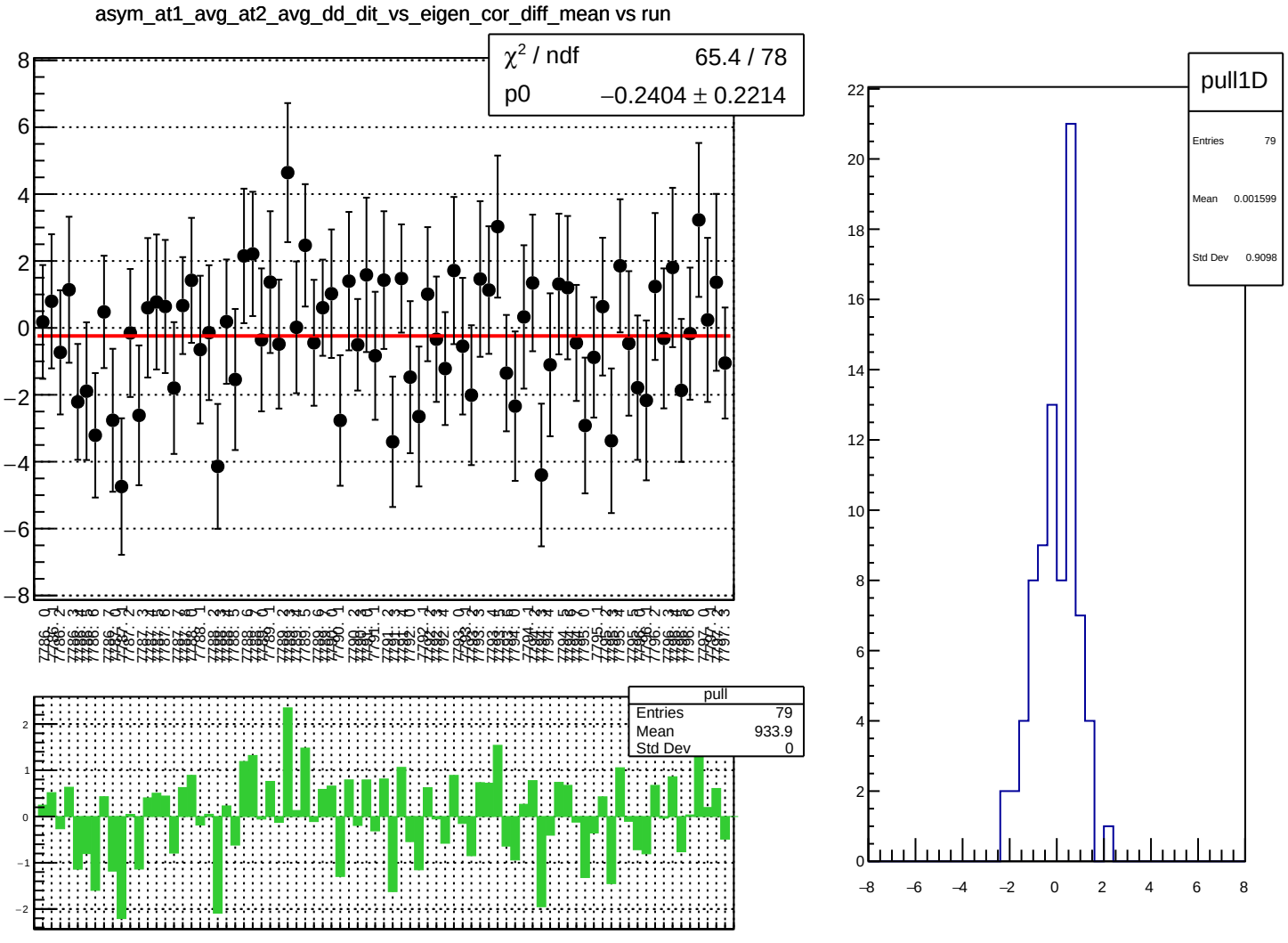

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.26 / 78
p0 8.8e−13 ± 6.21e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 79
Mean 23.74
Std Dev 19.78
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 79
Mean −0.07487
Std Dev 0.9127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

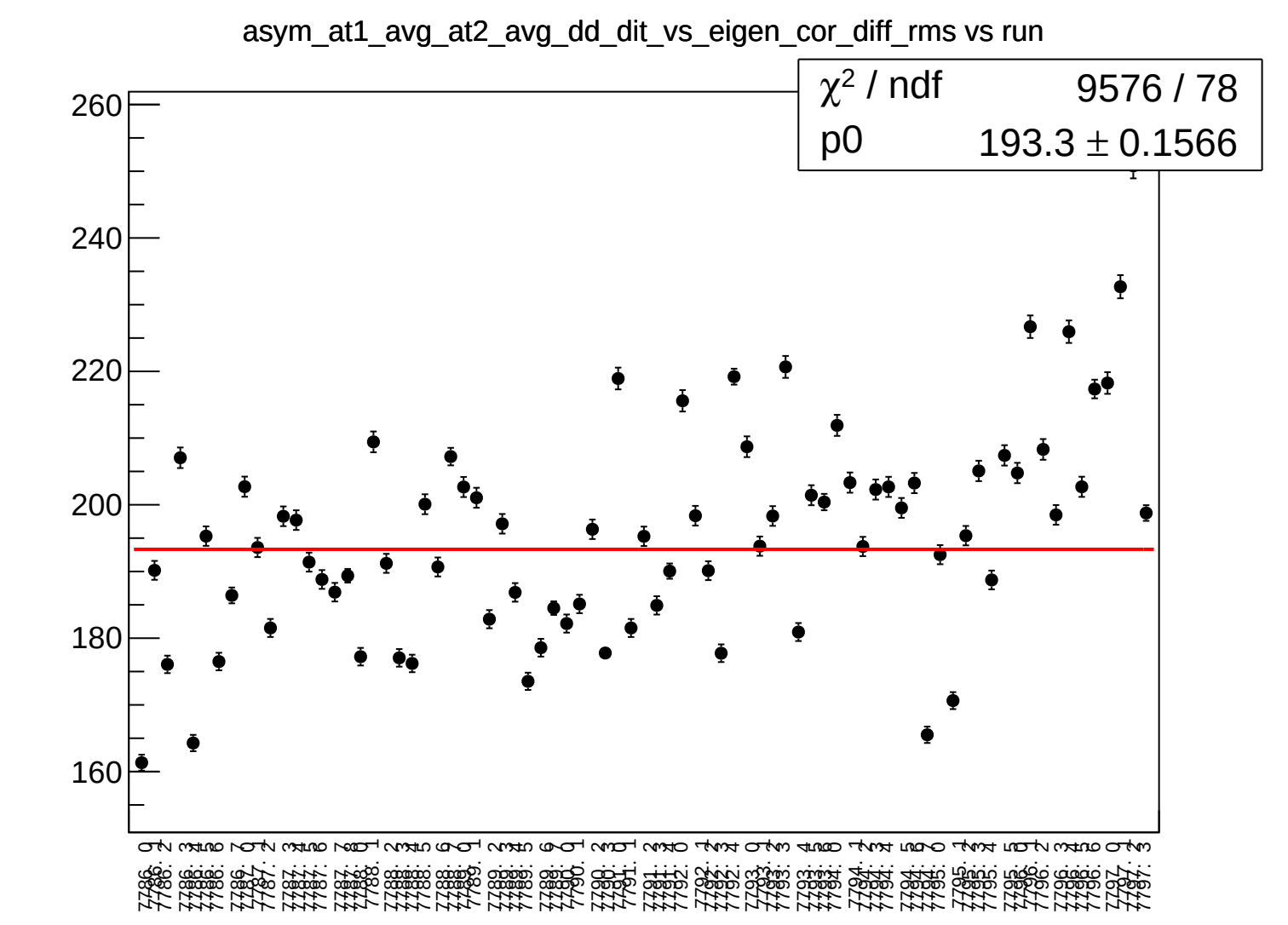

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.012e+05 / 78
p0 3.759e−10 ± 4.391e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

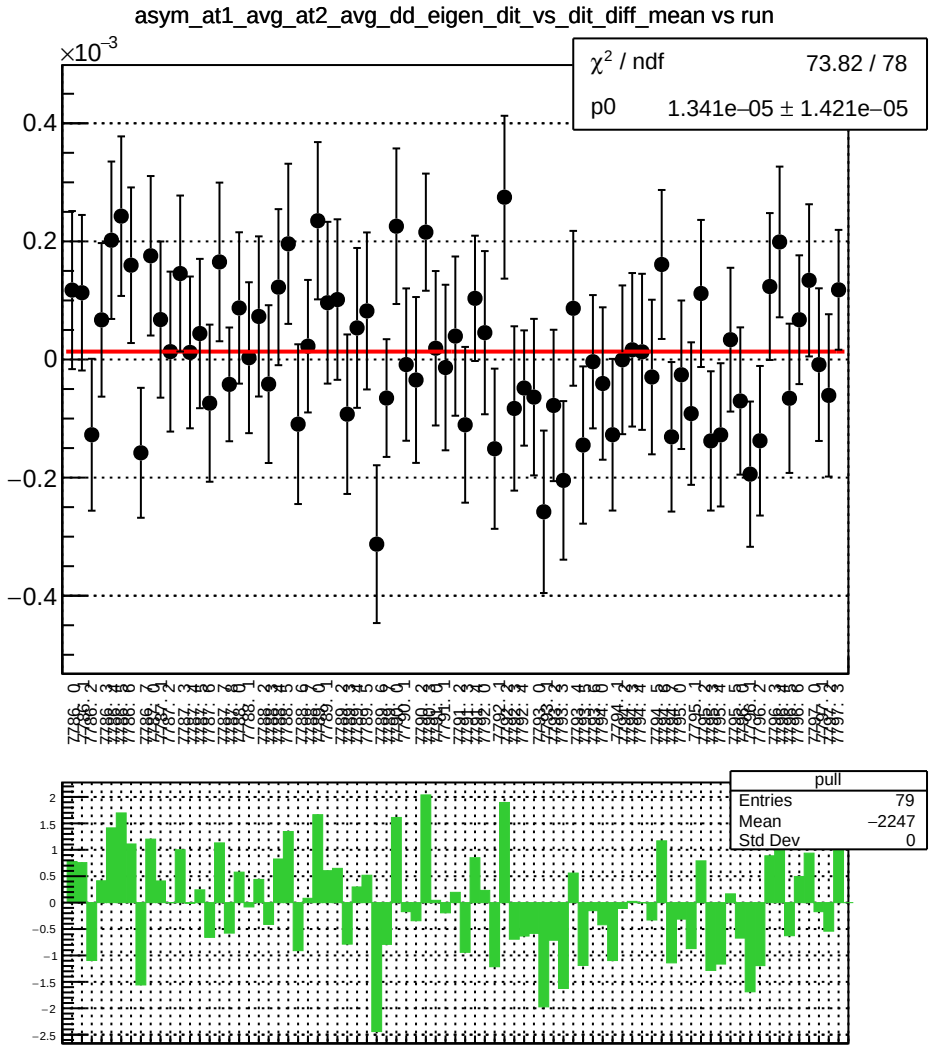

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.4 / 78
p0 −0.2404 ± 0.2214
pull
Entries 79
Mean 933.9
Std Dev 0

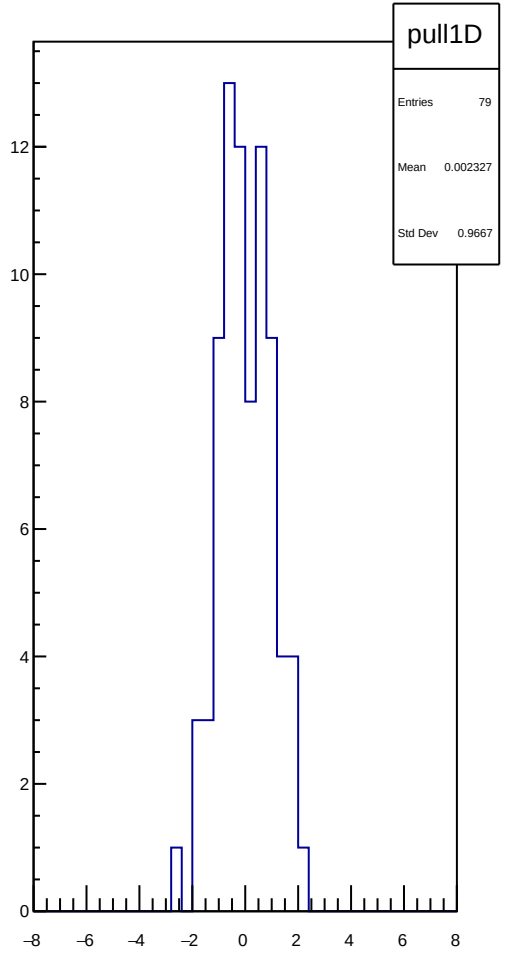

pull1D
Entries 79
Mean 0.001599
Std Dev 0.9098

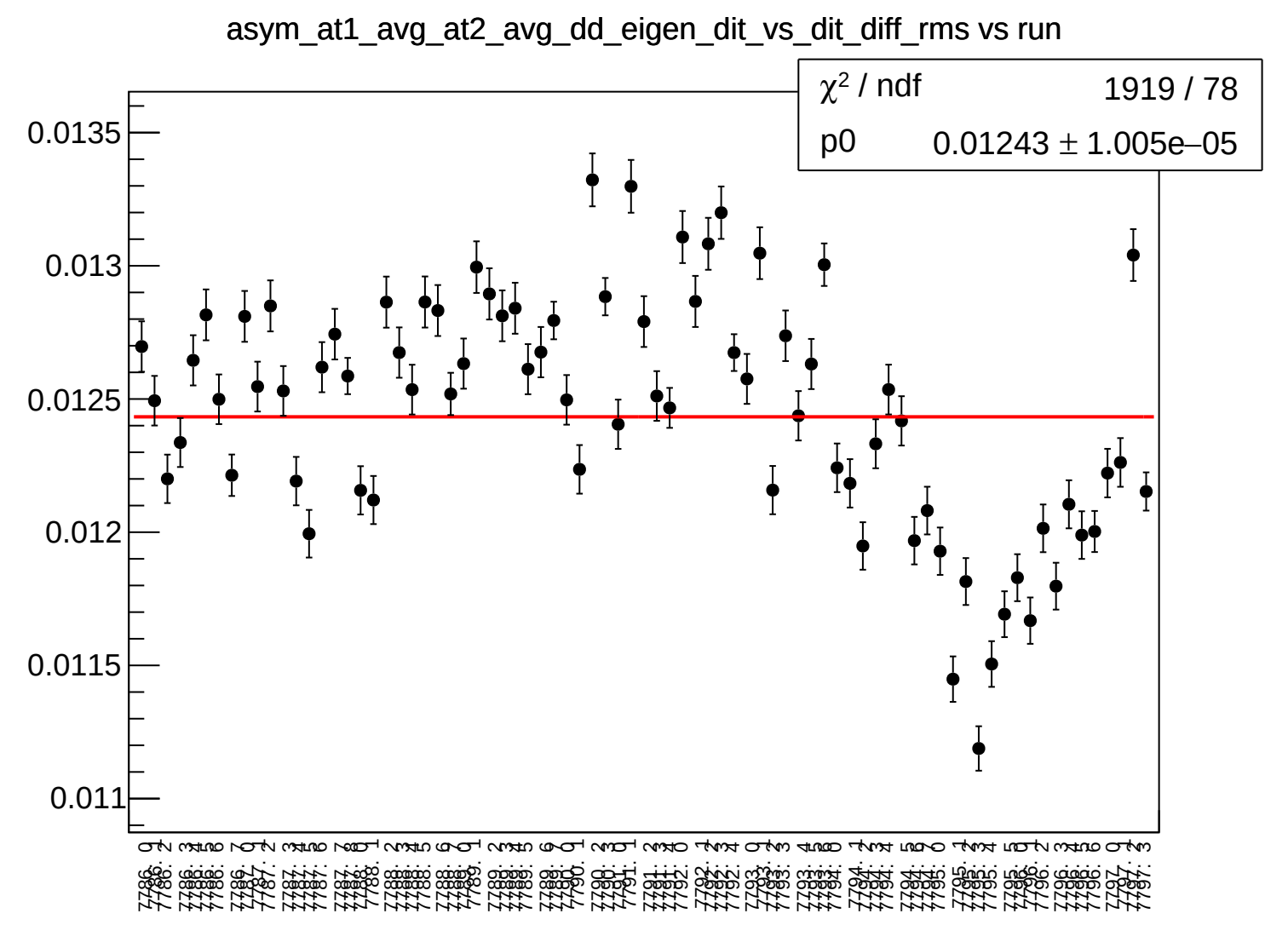

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9576 / 78
p0 193.3 ± 0.1566
260
240
220
200
180
160


asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.4 / 78
p0 −0.2404 ± 0.2214
pull
Entries 79
Mean 933.9
Std Dev 0
pull1D
Entries 79
Mean 0.001599
Std Dev 0.9098

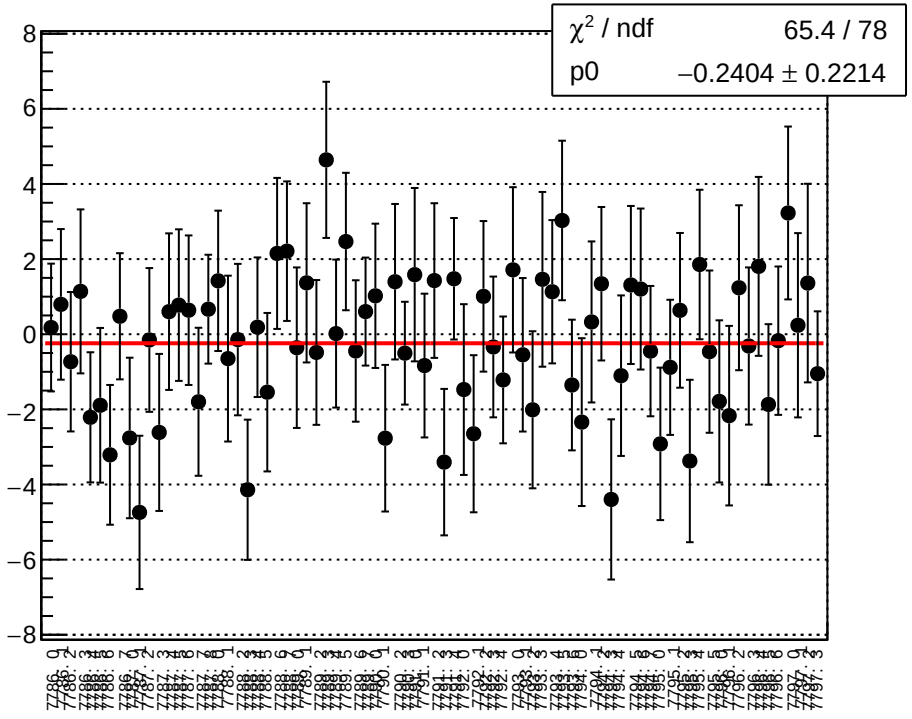

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9576 / 78
p0 193.3 ± 0.1566
260
240
220
200
180
160

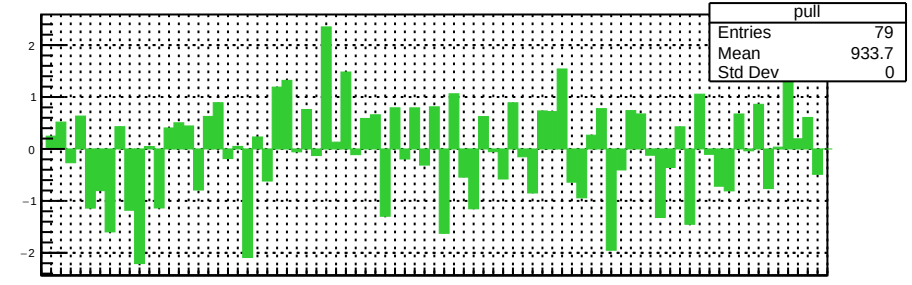

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.82 / 78
p0 1.341e−05 ± 1.421e−05
pull
Entries 79
Mean −2247
Std Dev 0

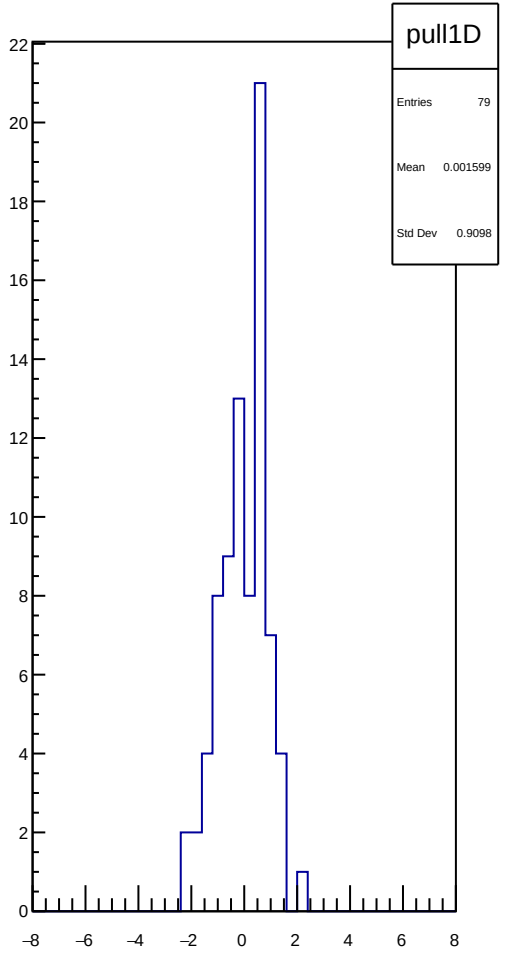

pull1D
Entries 79
Mean 0.002327
Std Dev 0.9667

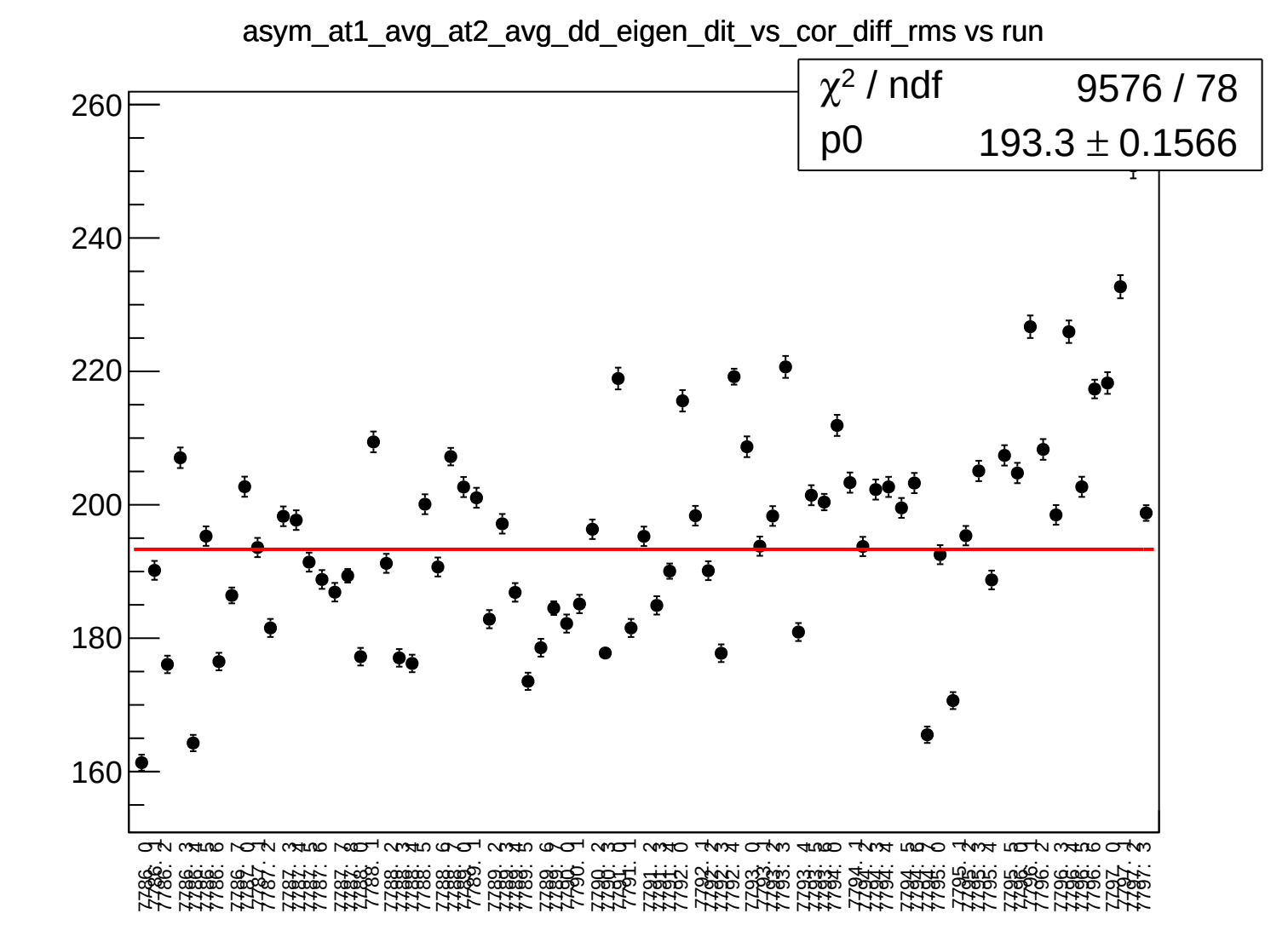

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1919 / 78
p0 0.01243 ± 1.005e−05
0.0135
0.013
0.0125
0.012
0.0115
0.011

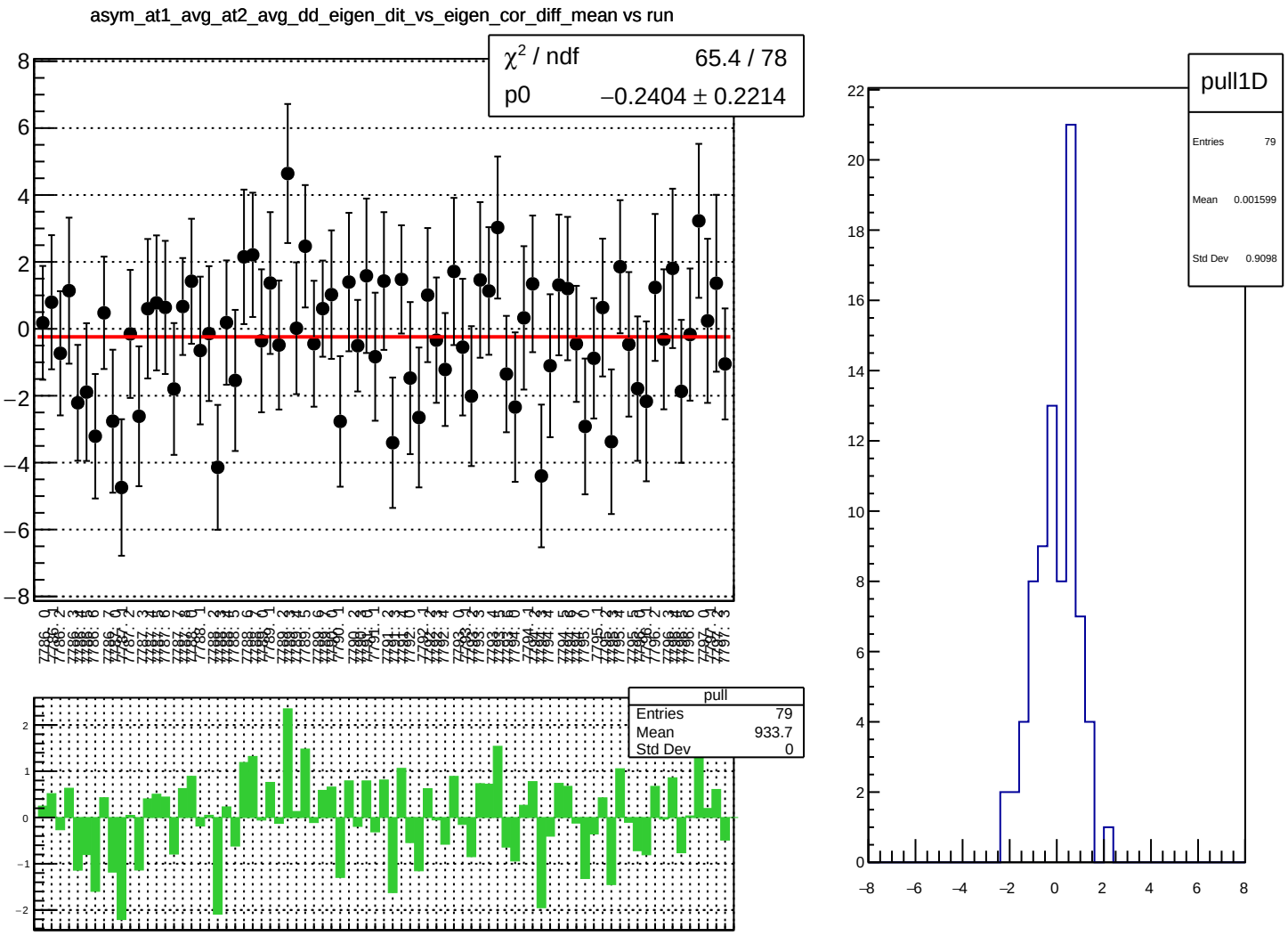
asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run

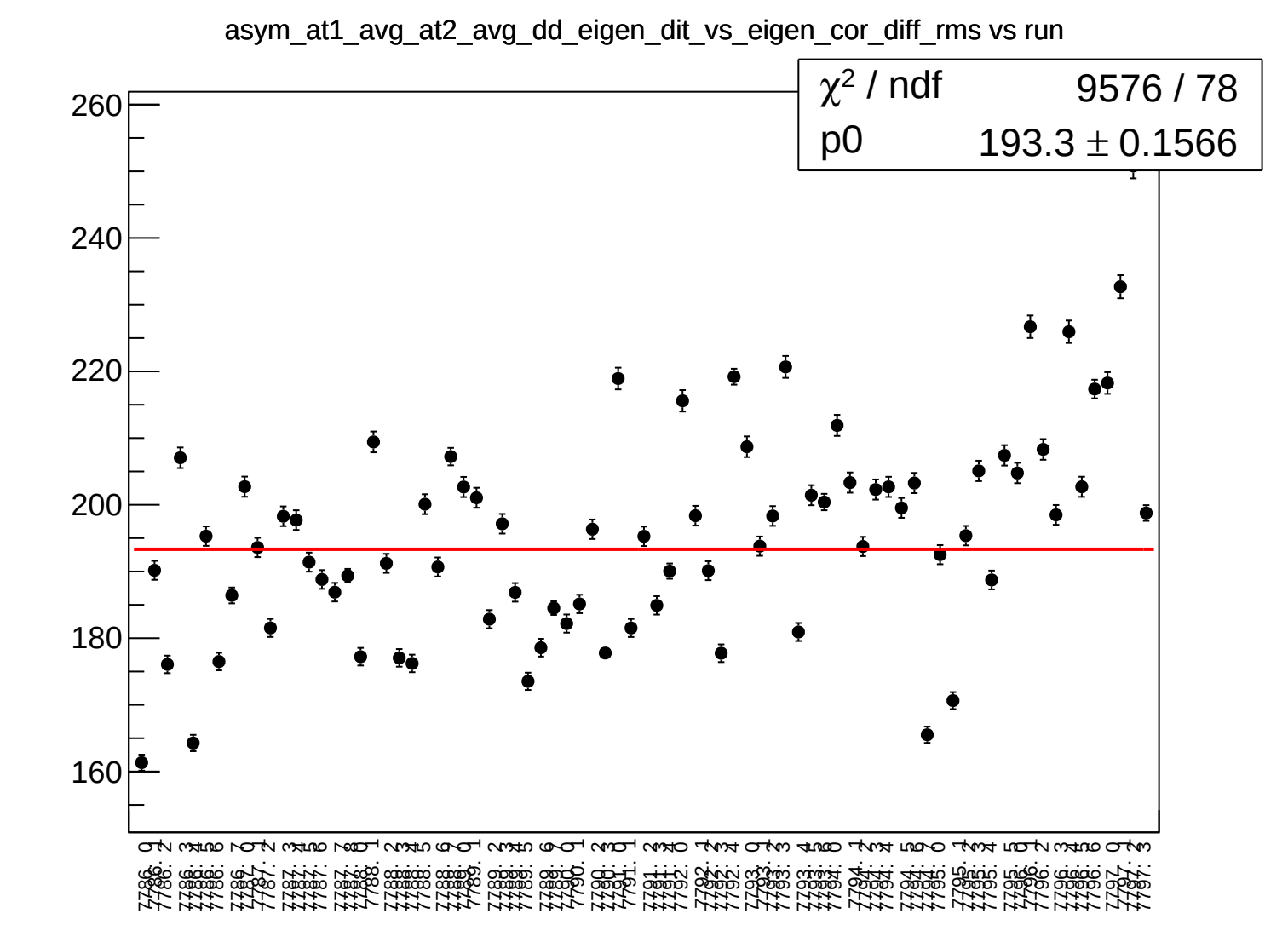


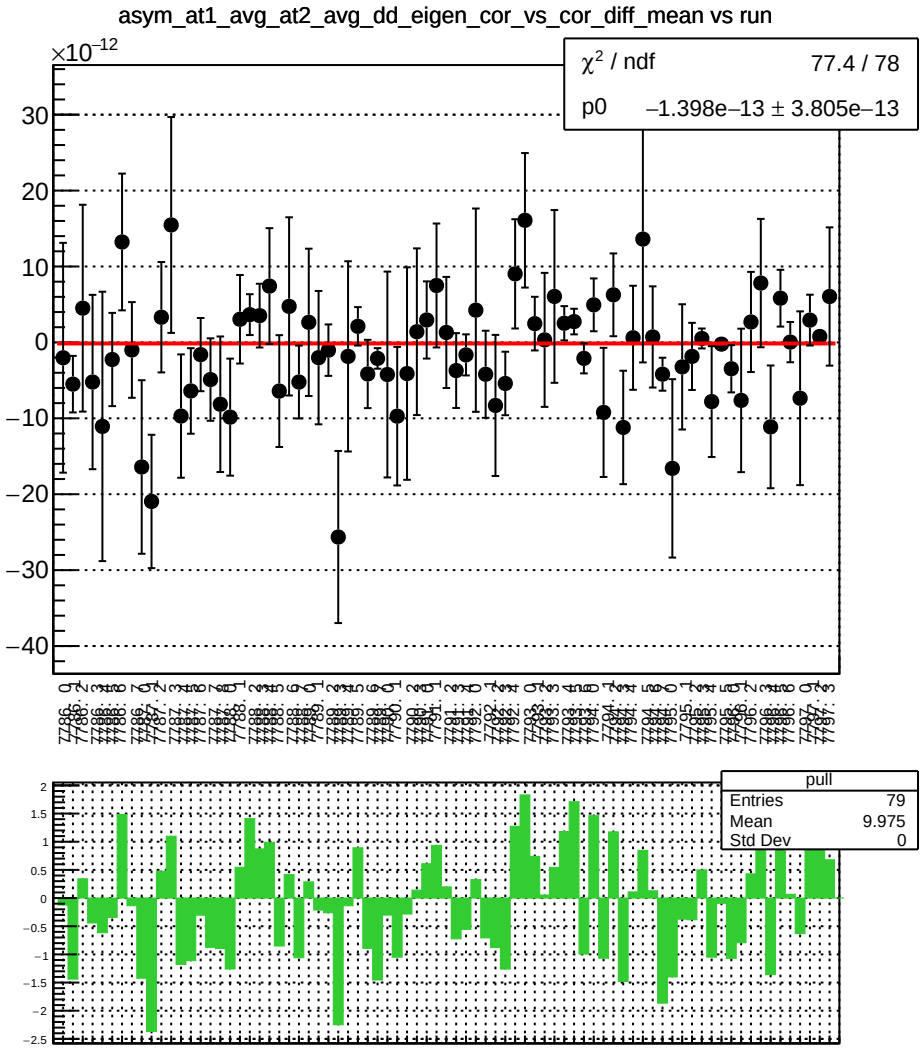


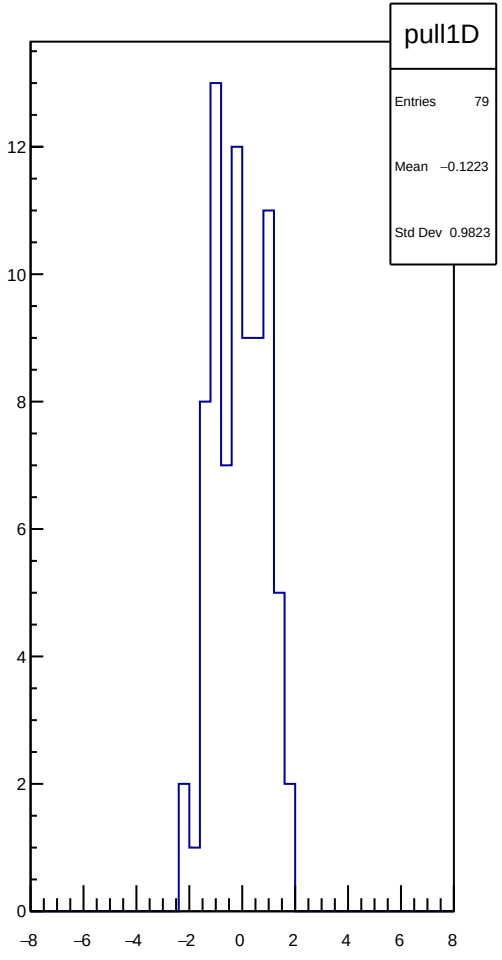


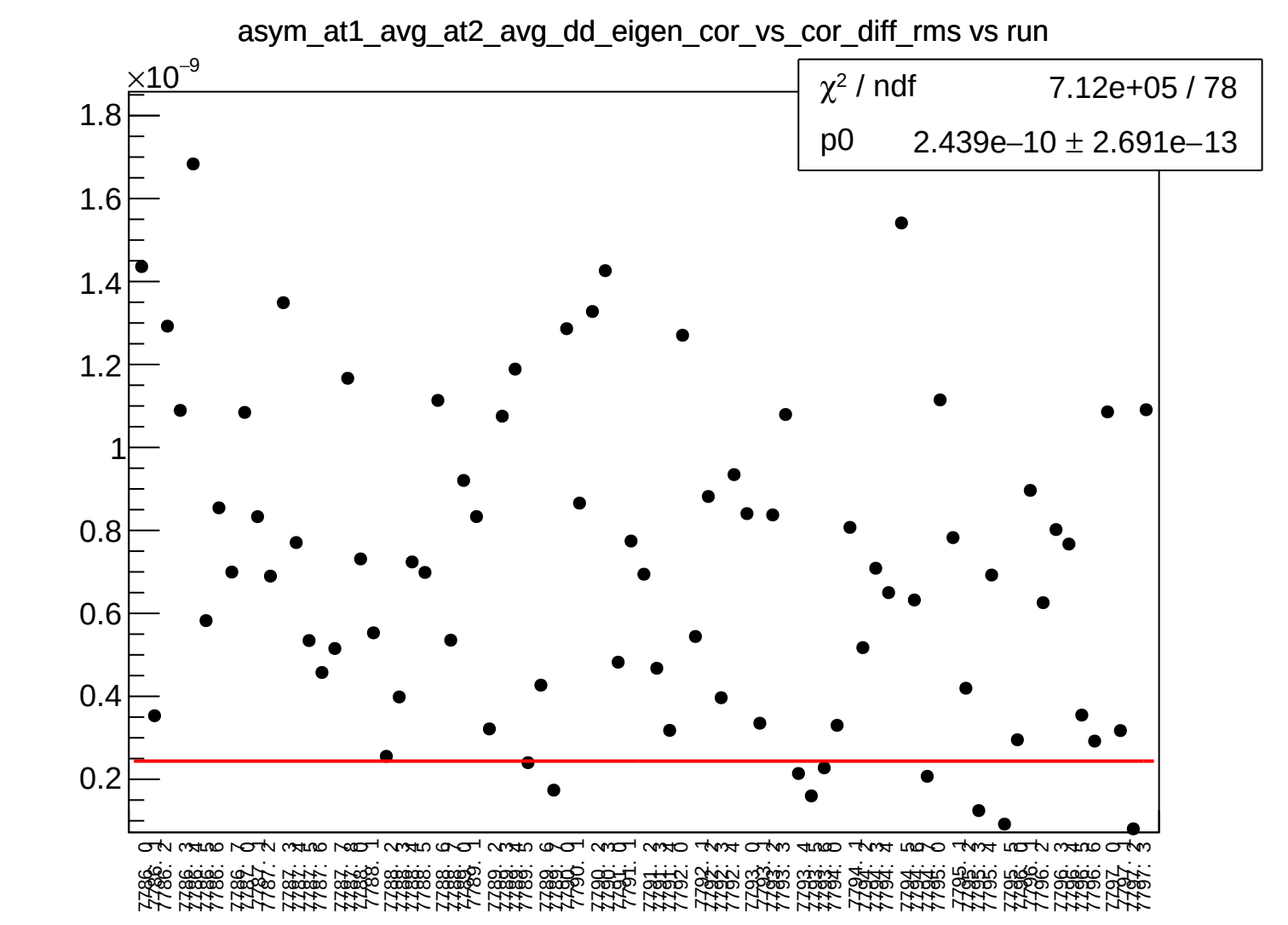

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9576 / 78
p0 193.3 ± 0.1566
260
240
220
200
180
160

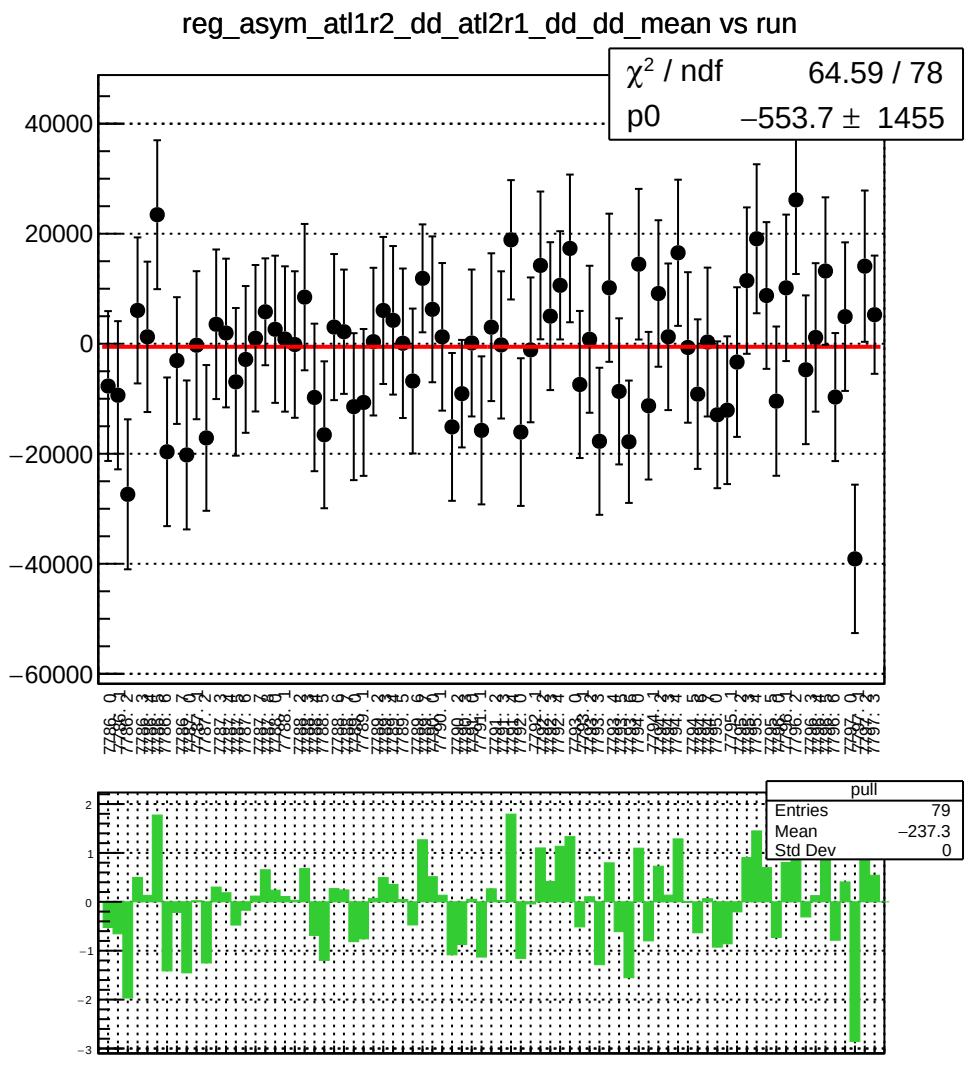

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.4 / 78
p0 −0.2404 ± 0.2214
pull
Entries 79
Mean 933.7
Std Dev 0
pull1D
Entries 79
Mean 0.001599
Std Dev 0.9098

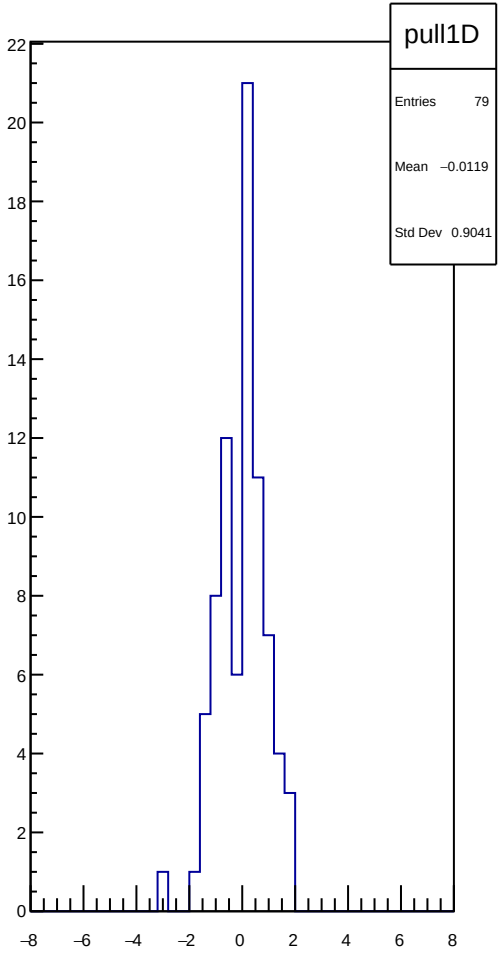

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9576 / 78
p0 193.3 ± 0.1566
260
240
220
200
180
160

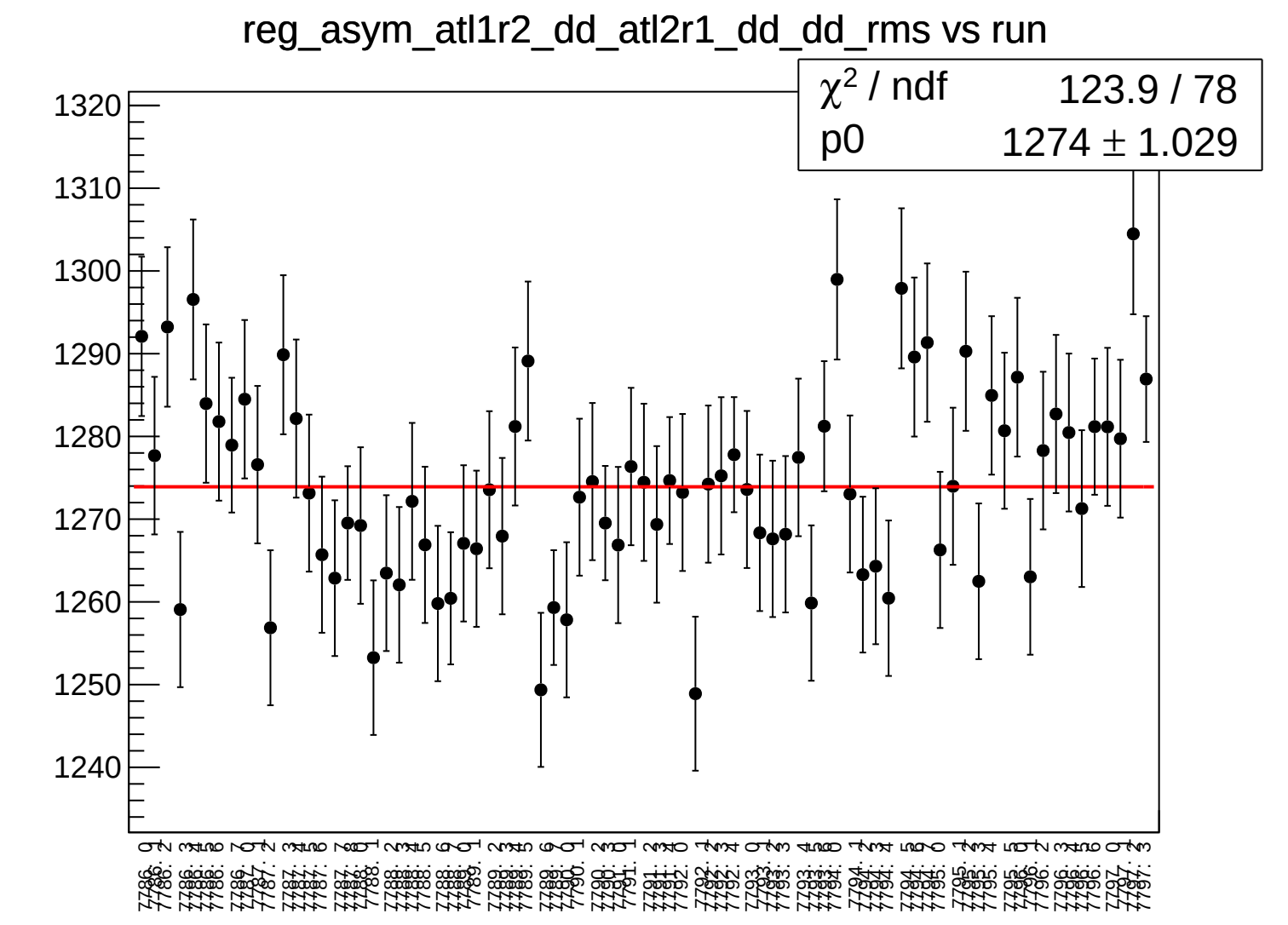

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.4 / 78
p0 −1.398e−13 ± 3.805e−13
pull
Entries 79
Mean 9.975
Std Dev 0

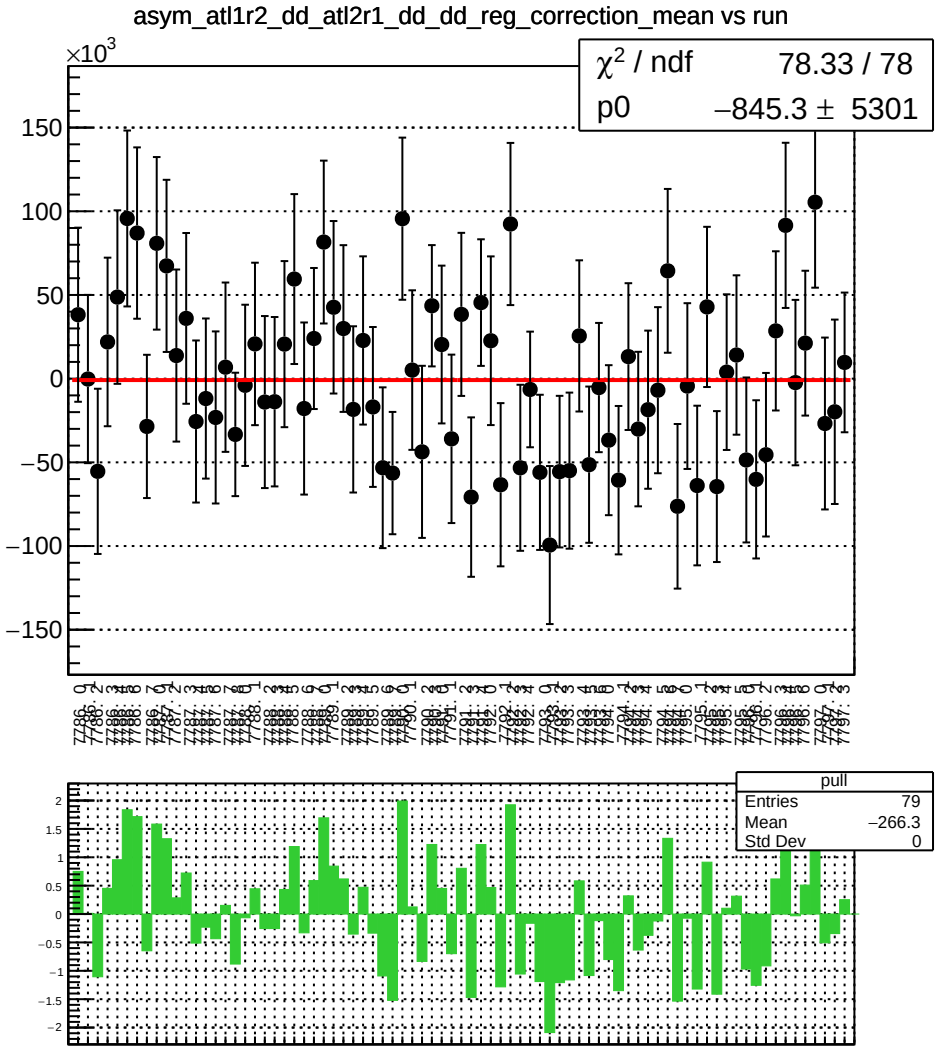

pull1D
Entries 79
Mean −0.1223
Std Dev 0.9823

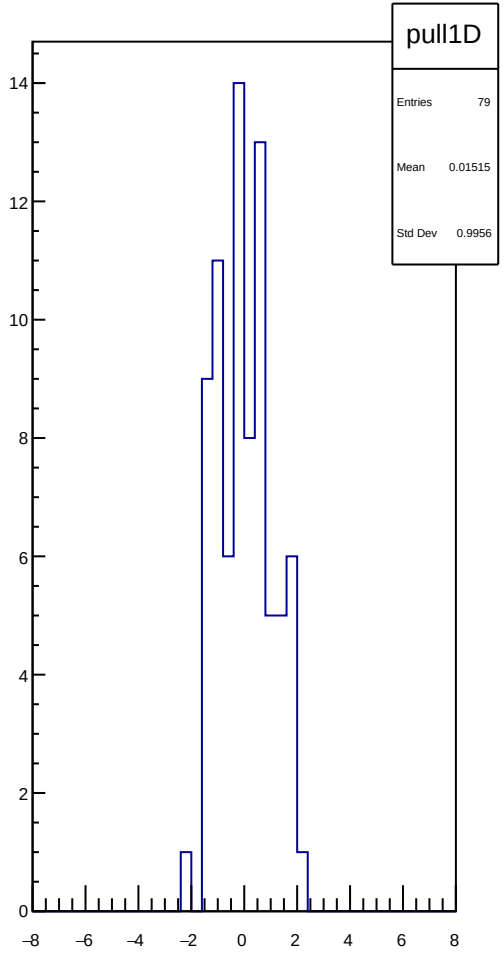

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.12e+05 / 78
p0 2.439e−10 ± 2.691e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

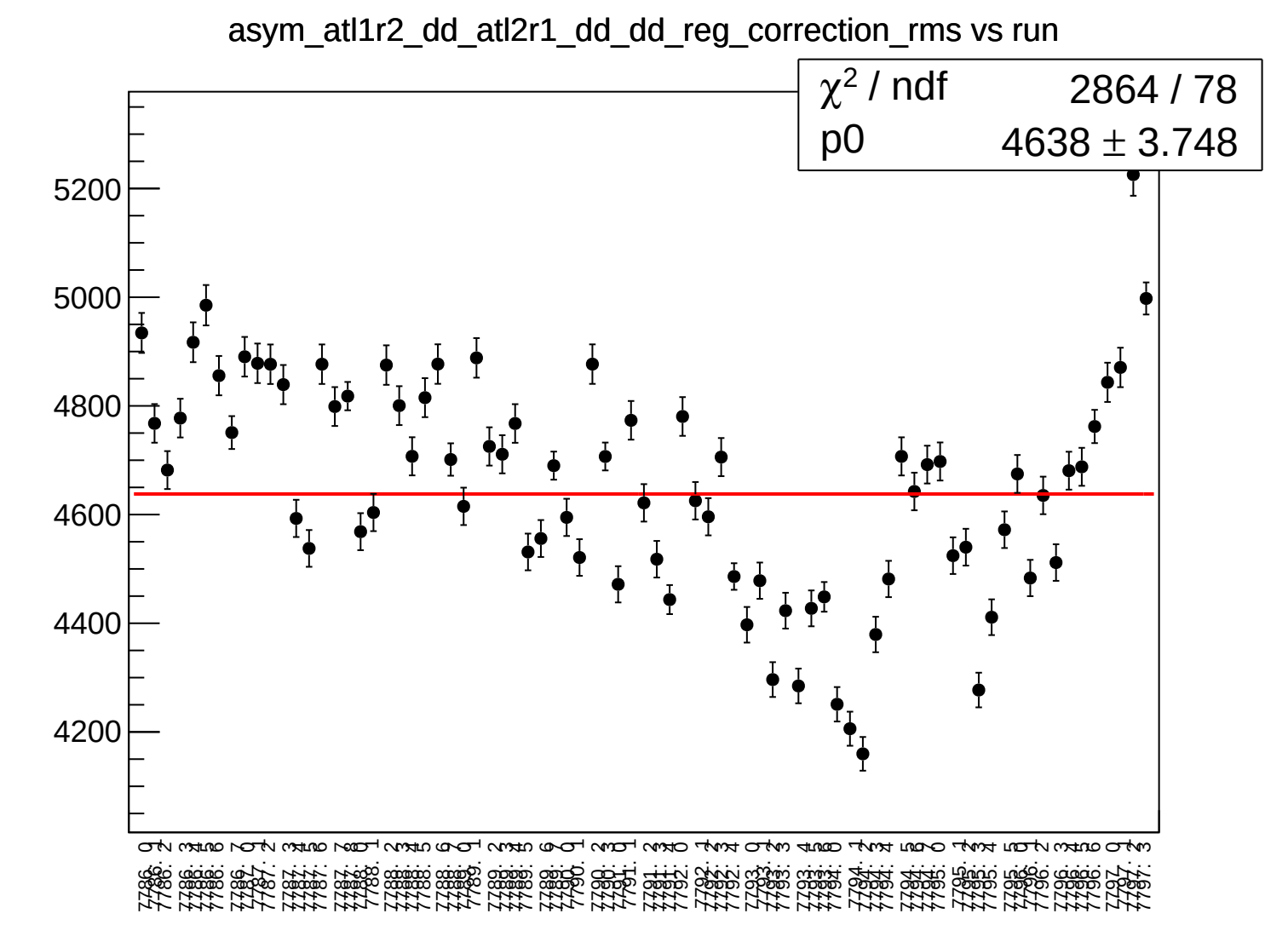

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 64.59 / 78
p0 −553.7 ± 1455
pull
Entries 79
Mean −237.3
Std Dev 0

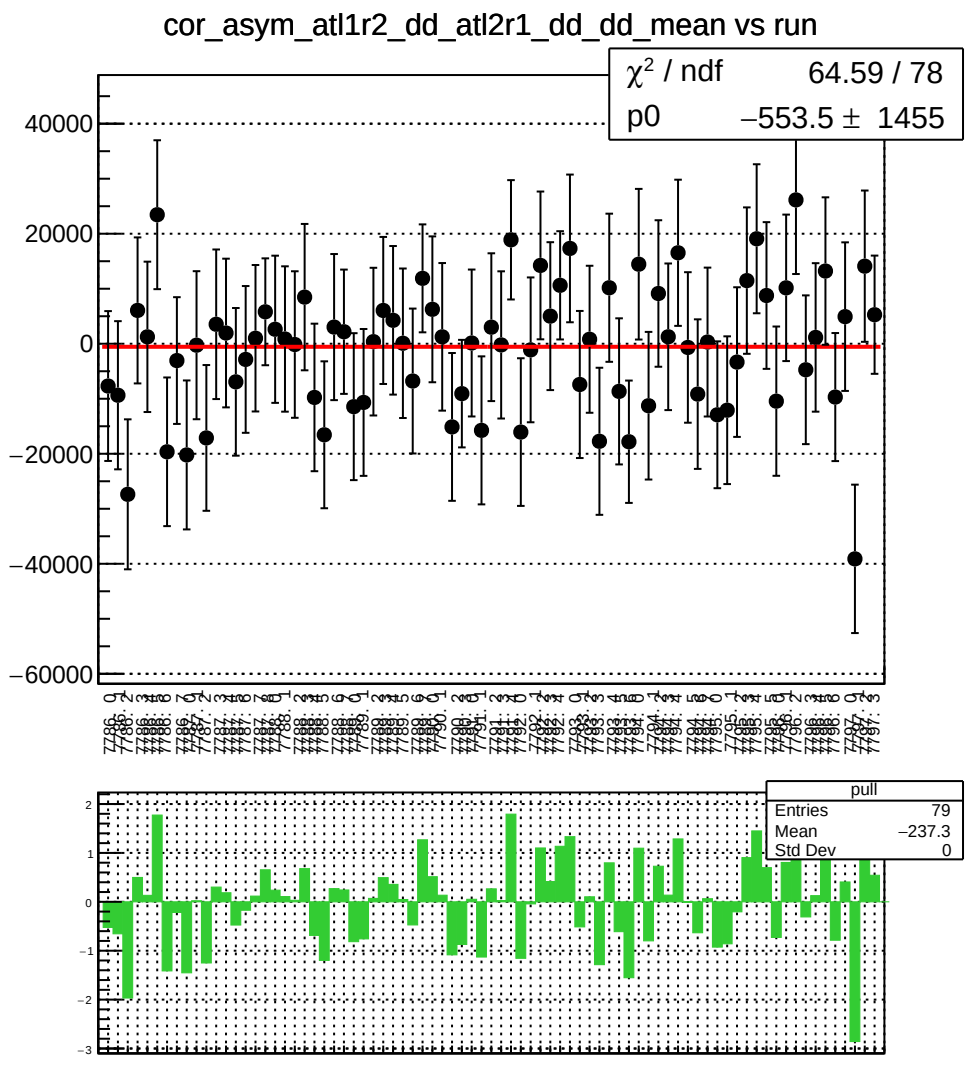

pull1D
Entries 79
Mean −0.0119
Std Dev 0.9041

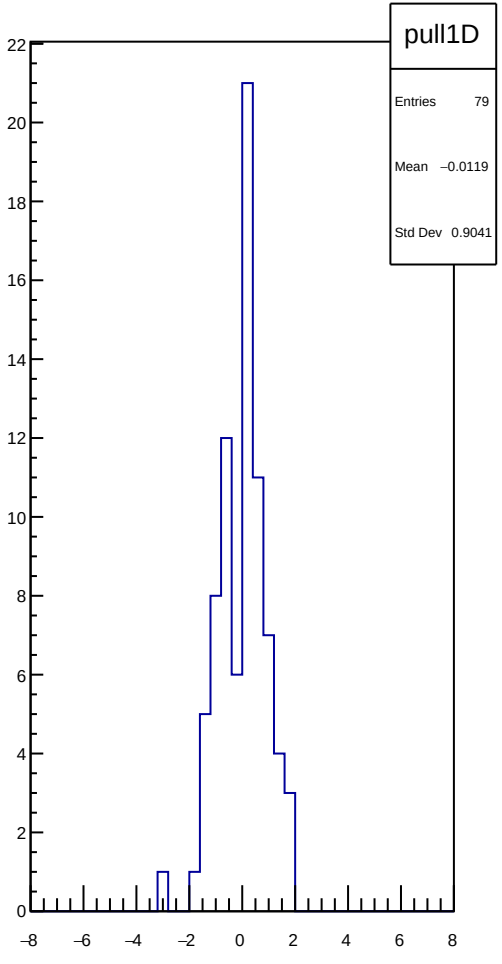

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 123.9 / 78
p0 1274 ± 1.029
1320
1310
1300
1290
1280
1270
1260
1250
1240

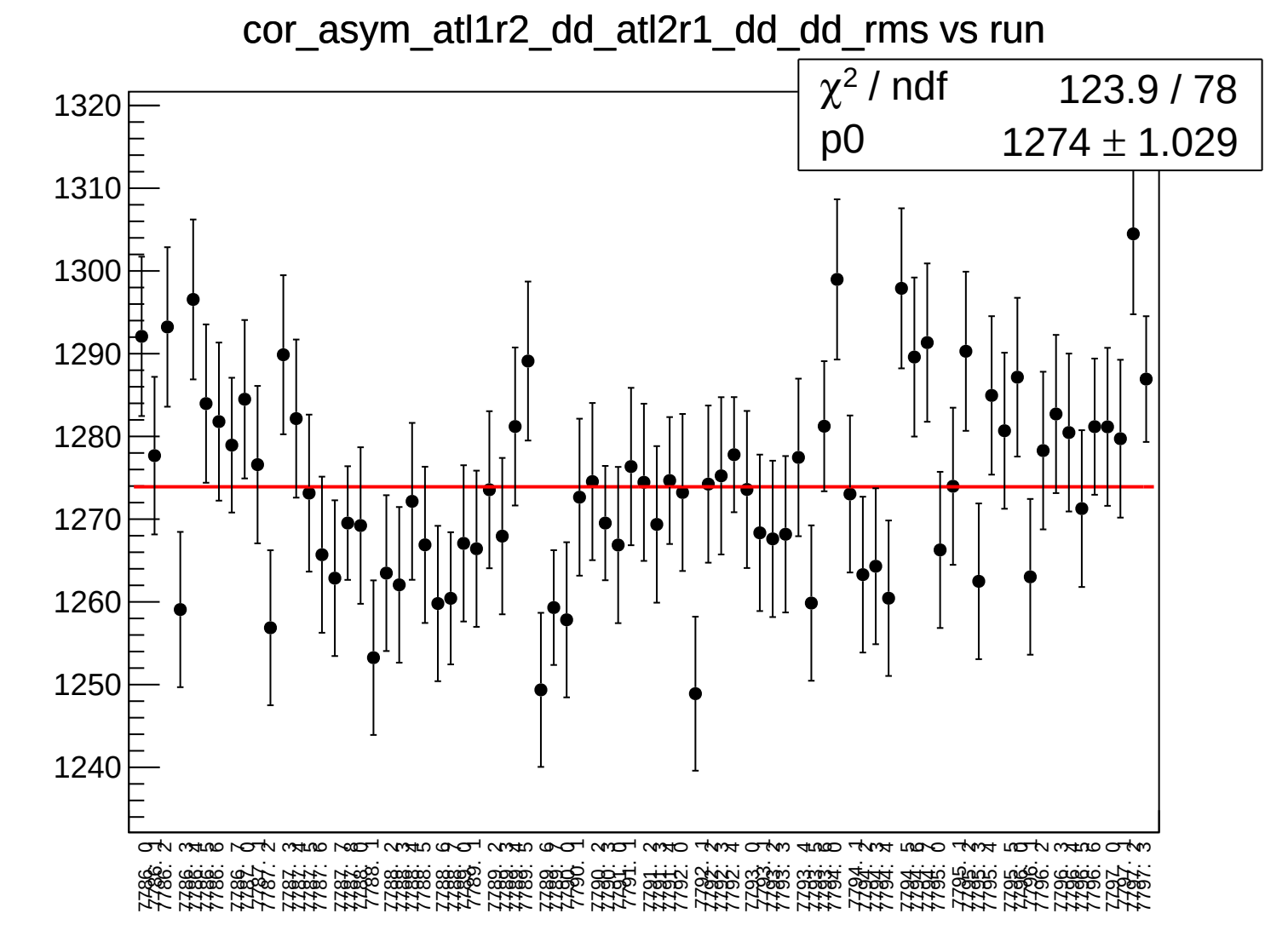

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.33 / 78
p0 −845.3 ± 5301
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −266.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

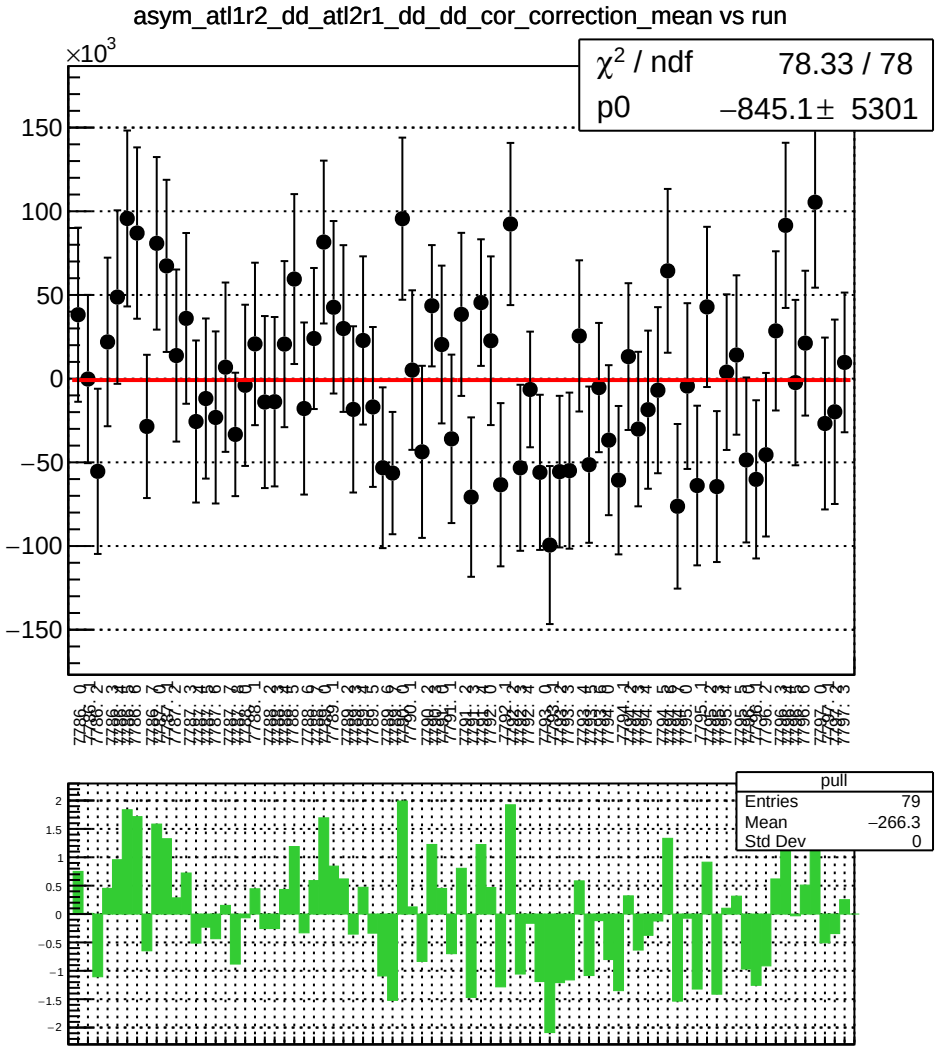

pull1D
Entries 79
Mean 0.01515
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

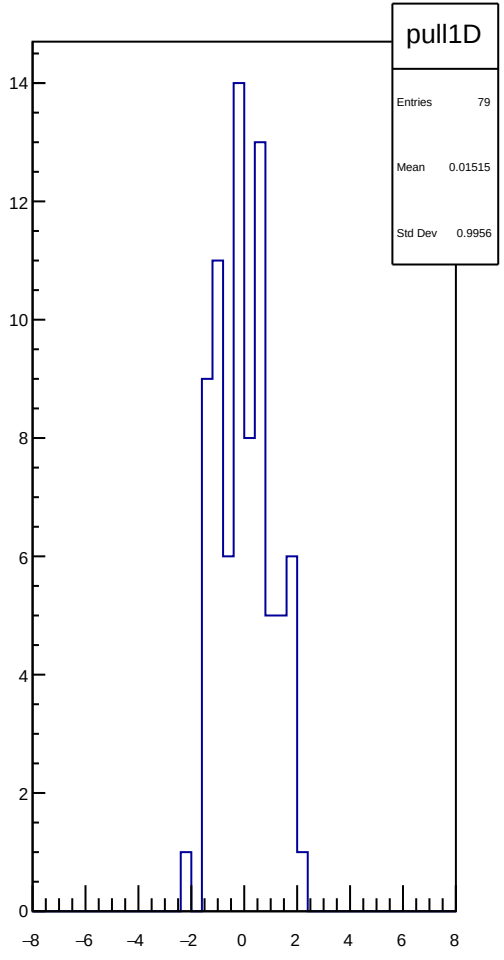

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 2864 / 78
p0 4638 ± 3.748
5200
5000
4800
4600
4400
4200

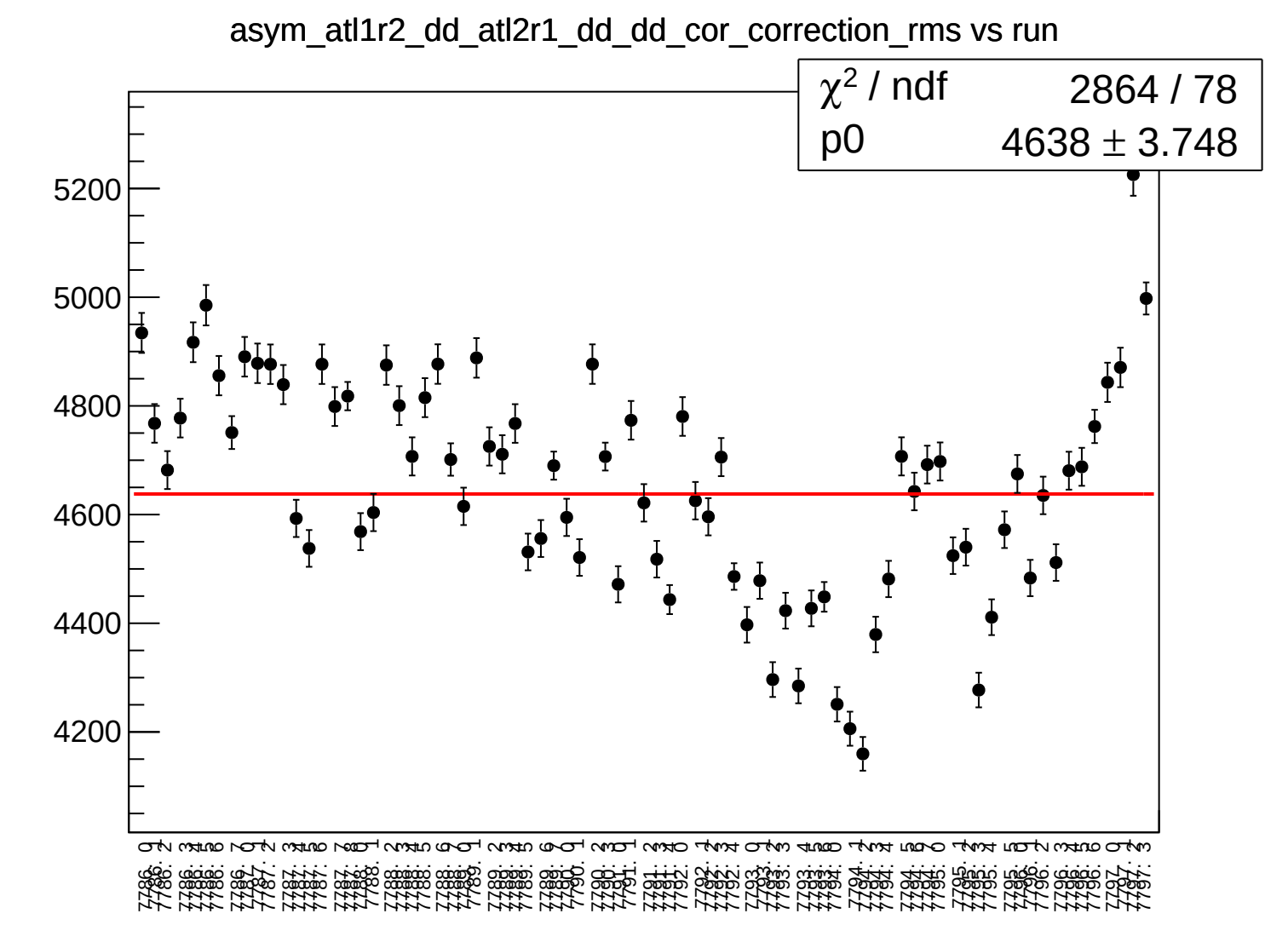

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 64.59 / 78
p0 −553.5 ± 1455
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −237.3
Std Dev 0
2
1
0
−1
−2
−3

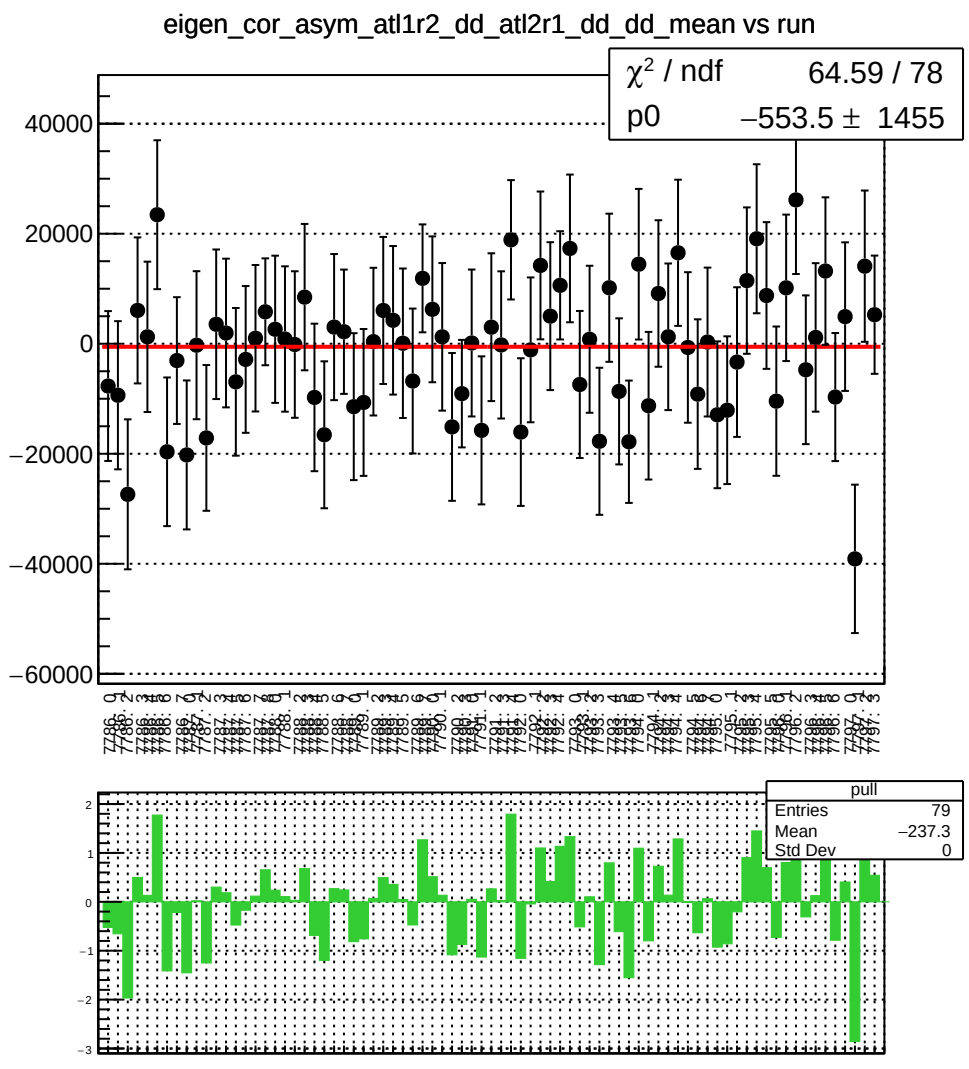

pull1D
Entries 79
Mean −0.0119
Std Dev 0.9041
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

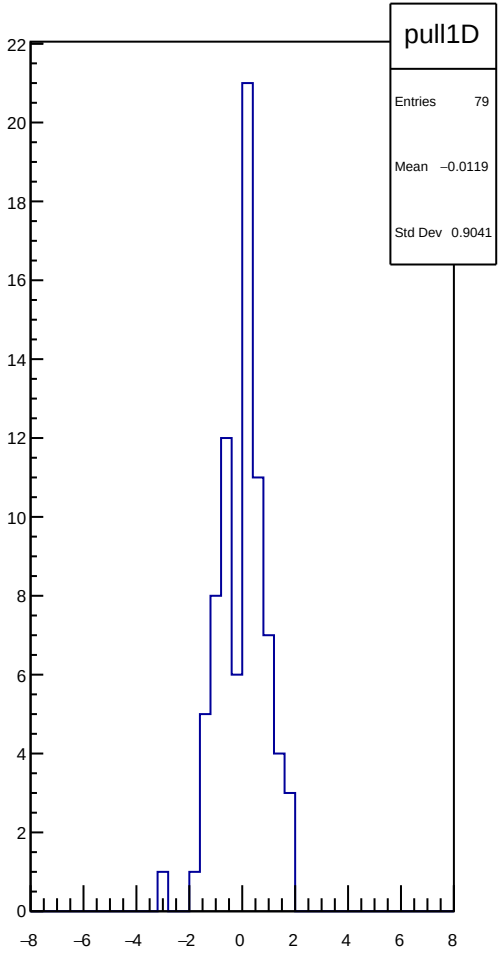

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 123.9 / 78
p0 1274 ± 1.029
1320
1310
1300
1290
1280
1270
1260
1250
1240

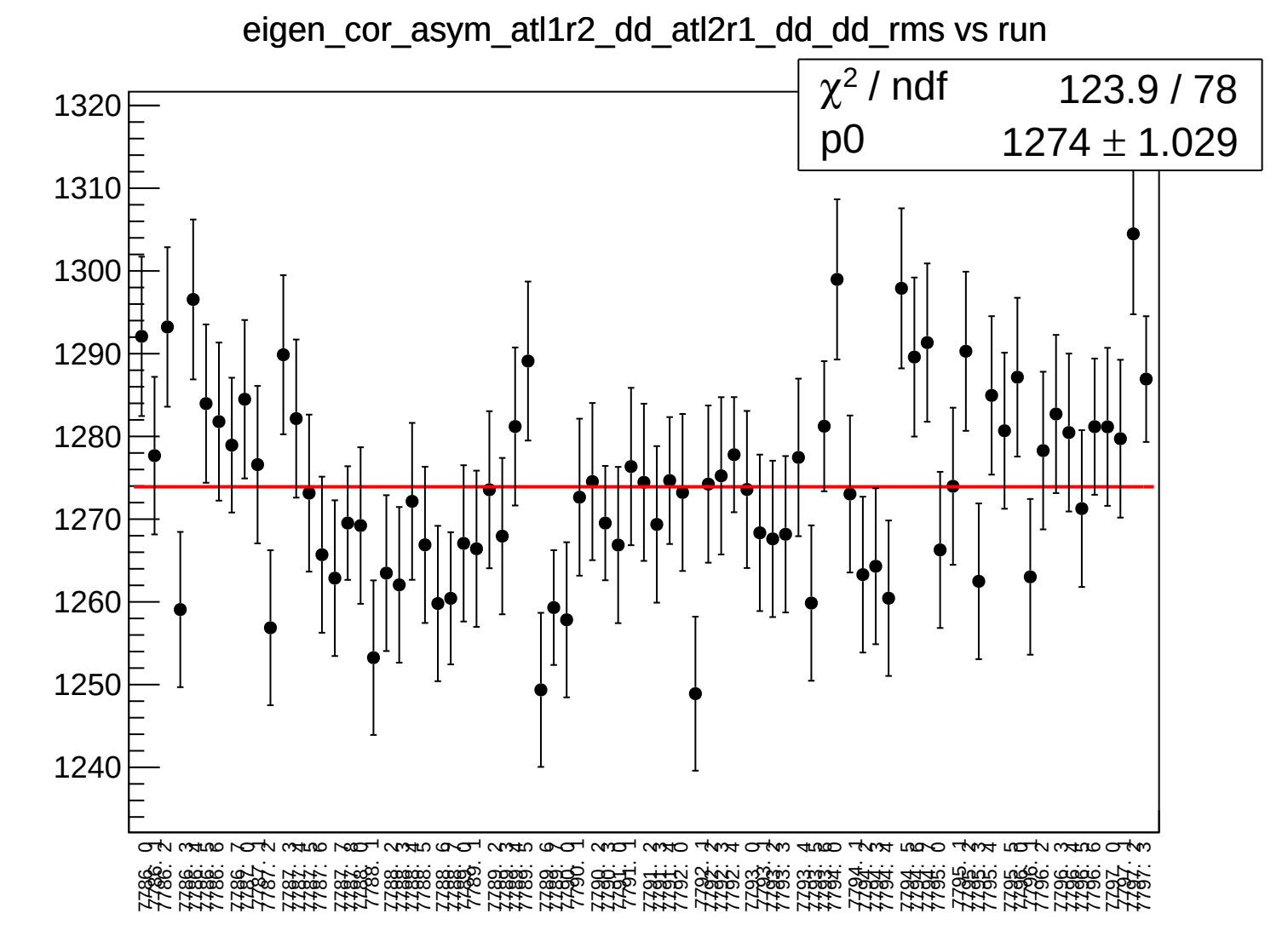

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.33 / 78
p0 −845.1± 5301
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −266.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

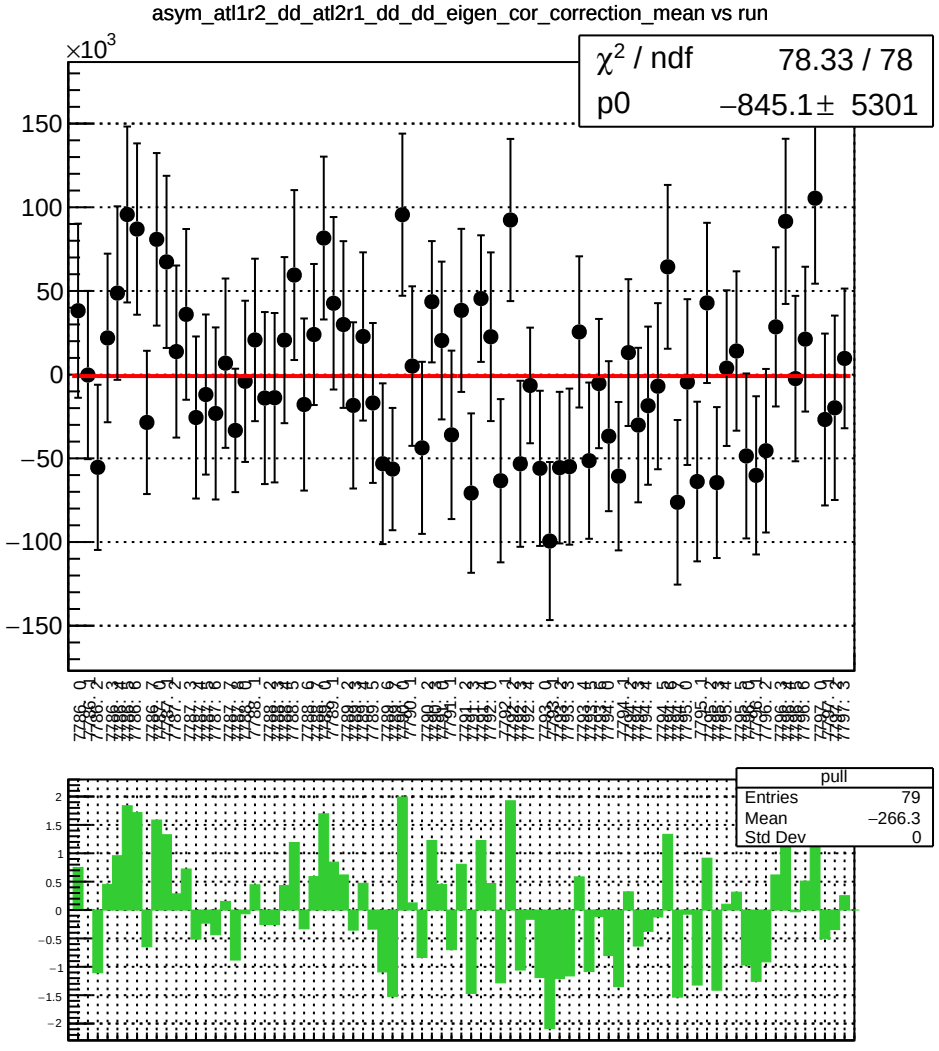

pull1D
Entries 79
Mean 0.01515
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

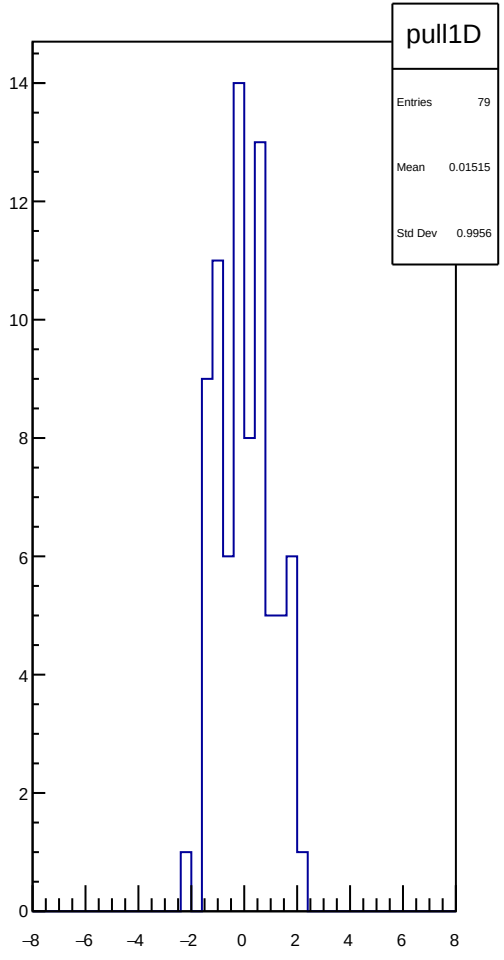

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 2864 / 78
p0 4638 ± 3.748
5200
5000
4800
4600
4400
4200

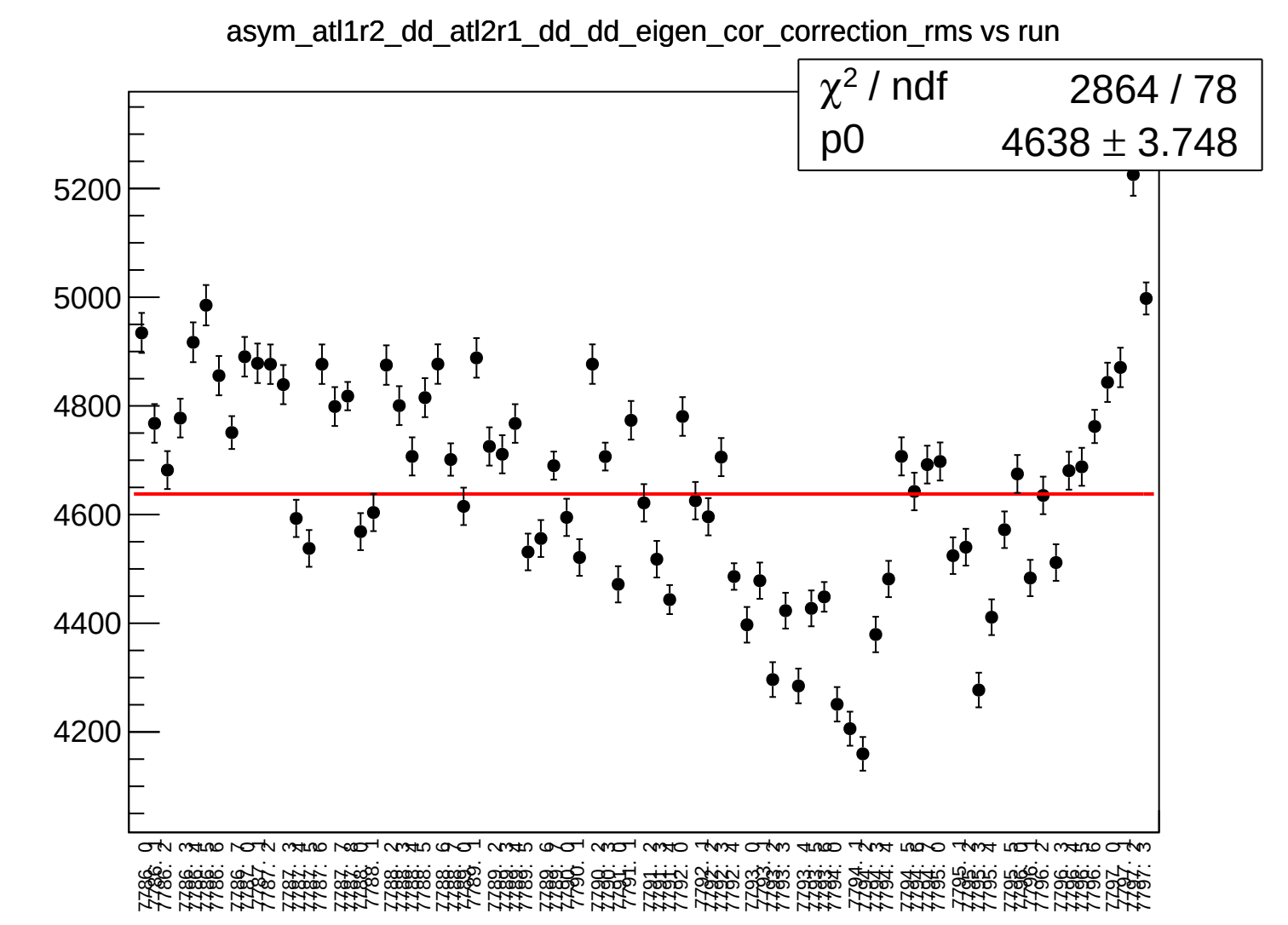

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 64.59 / 78
p0 −553.5 ± 1455
pull
Entries 79
Mean −237.3
Std Dev 0

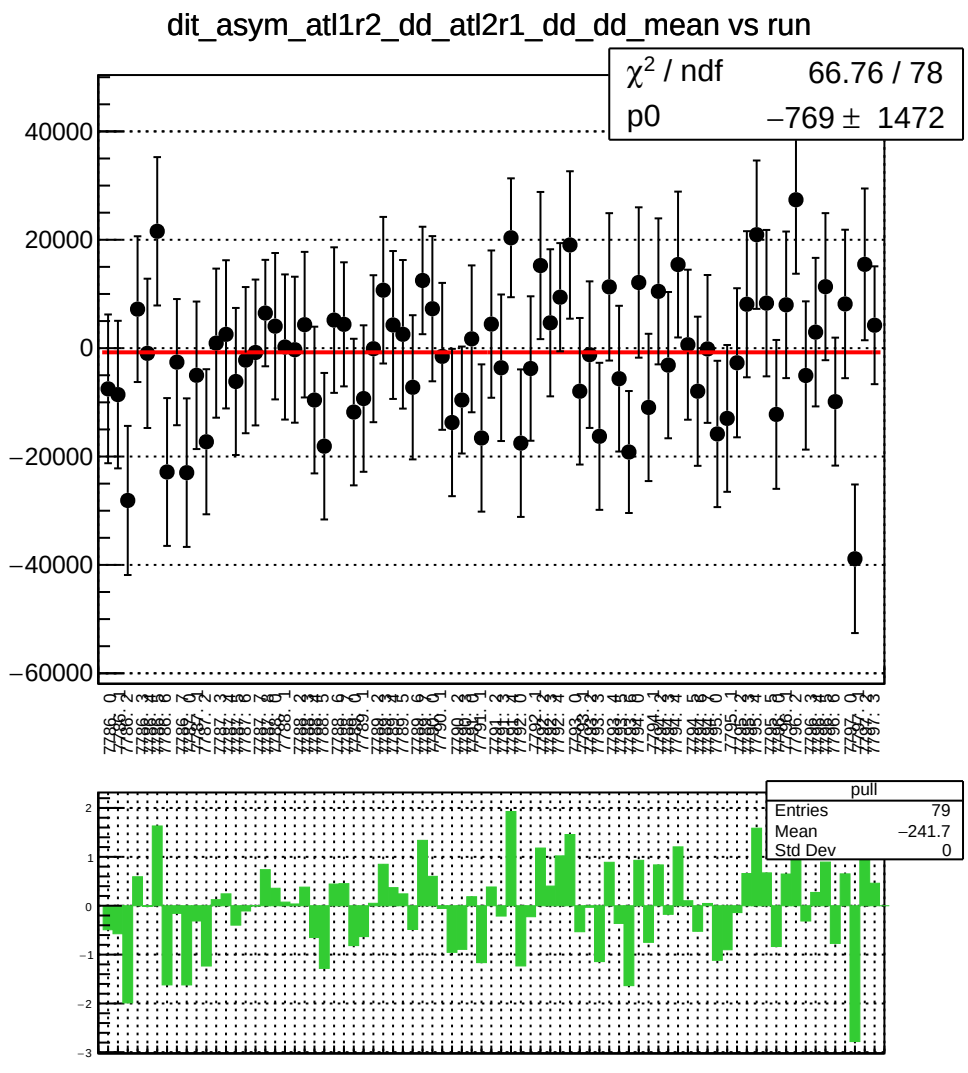

pull1D
Entries 79
Mean −0.0119
Std Dev 0.9041

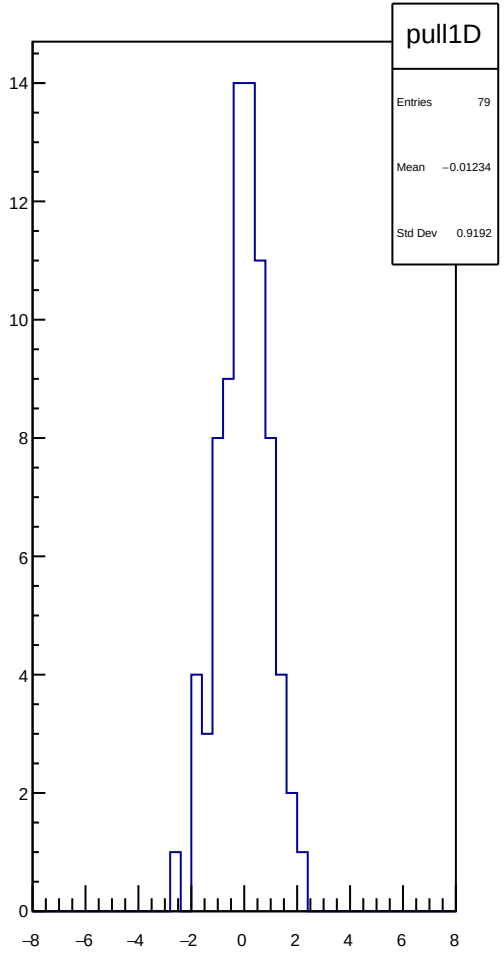

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 123.9 / 78
p0 1274 ± 1.029
1320
1310
1300
1290
1280
1270
1260
1250
1240

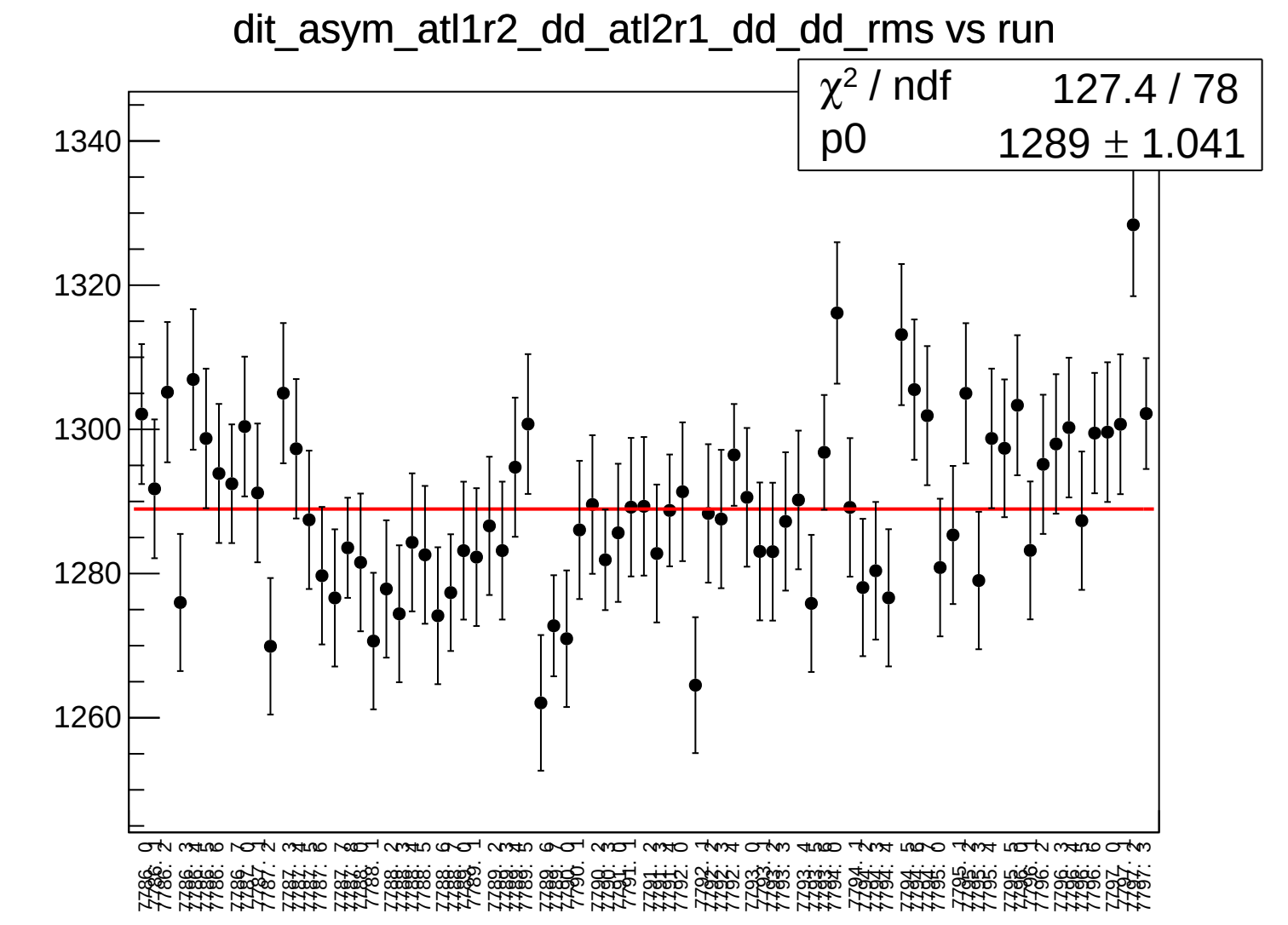

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.33 / 78
p0 −845.1± 5301
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −266.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

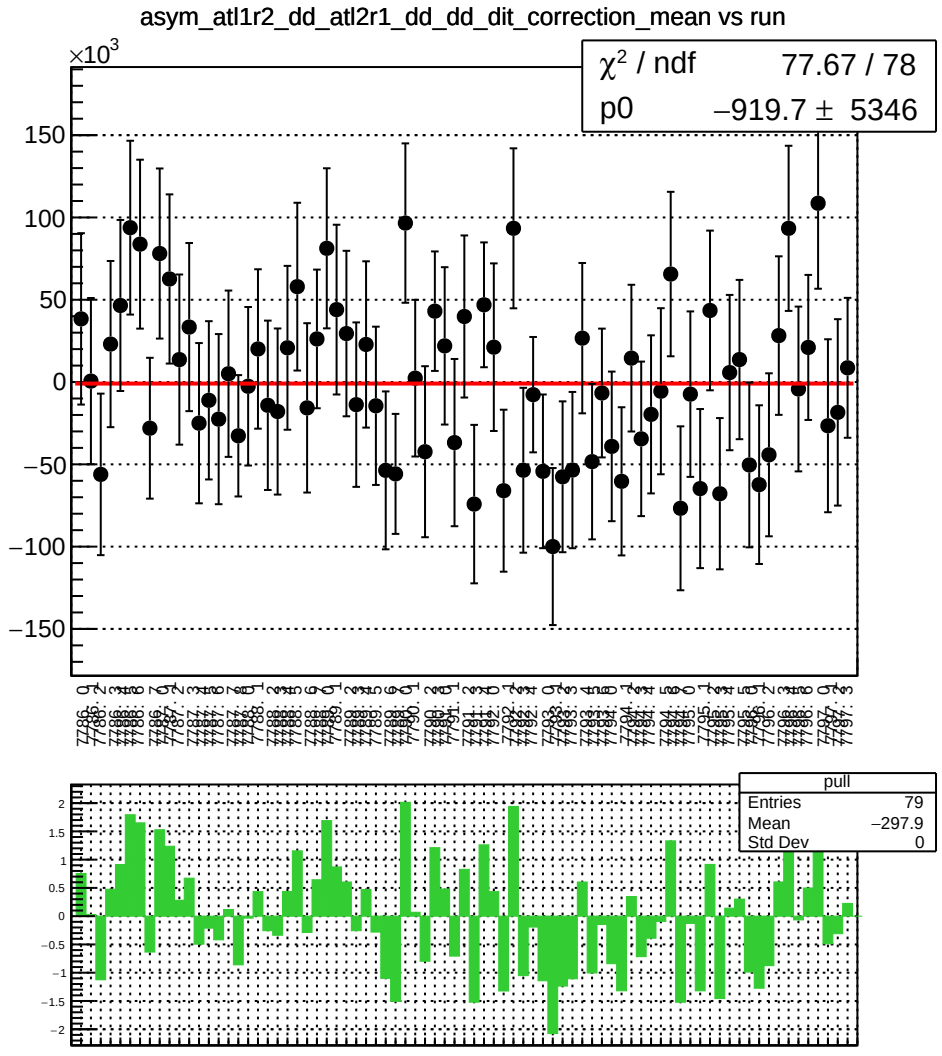

pull1D
Entries 79
Mean 0.01515
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

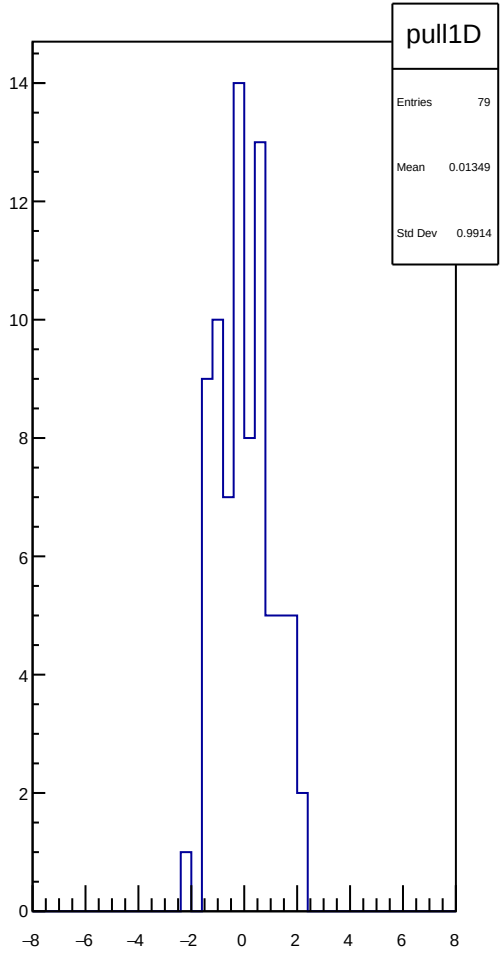

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2864 / 78
p0 4638 ± 3.748
5200
5000
4800
4600
4400
4200

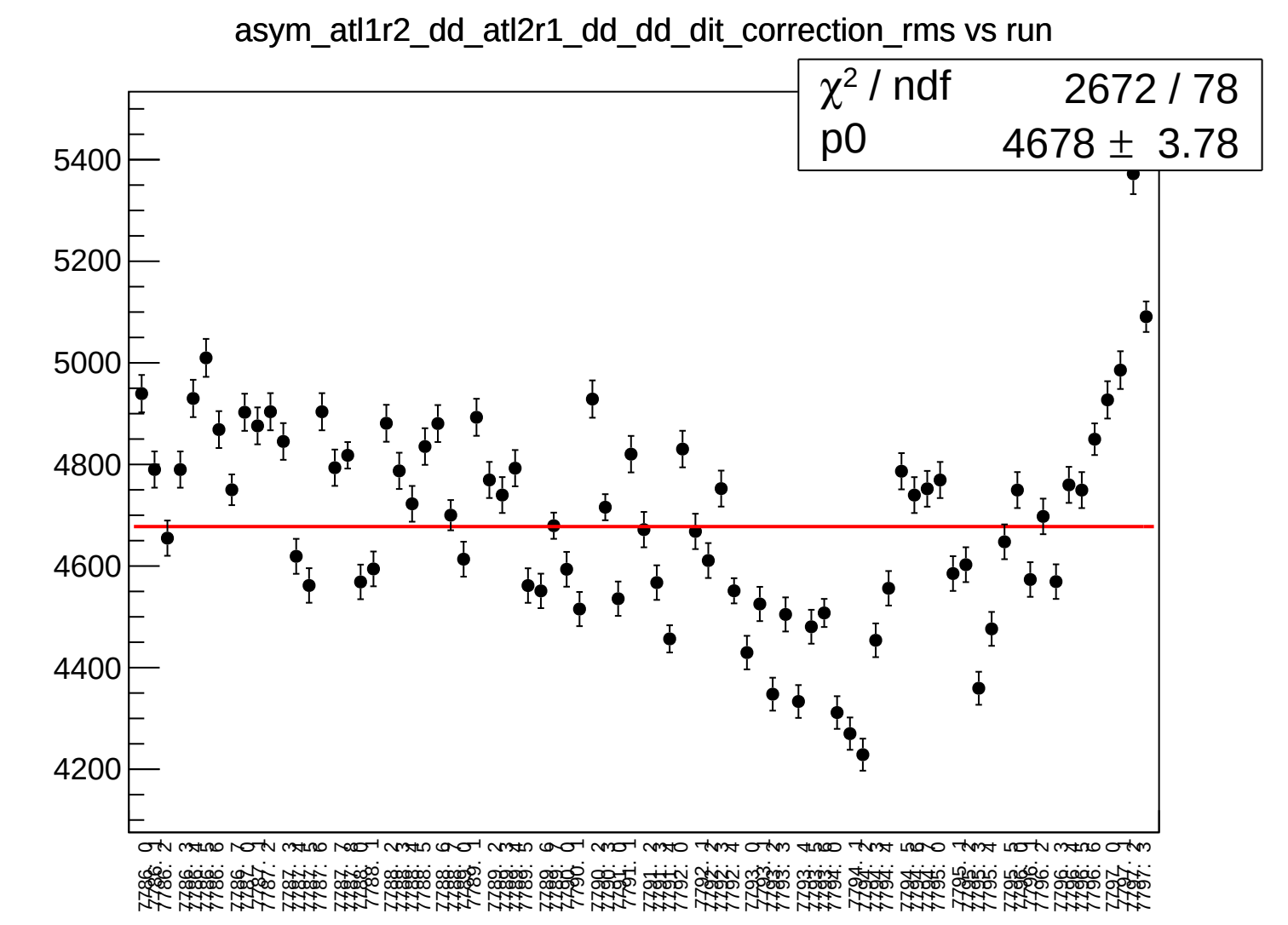

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 66.76 / 78
p0 −769 ± 1472
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −241.7
Std Dev 0
2
1
0
−1
−2
−3

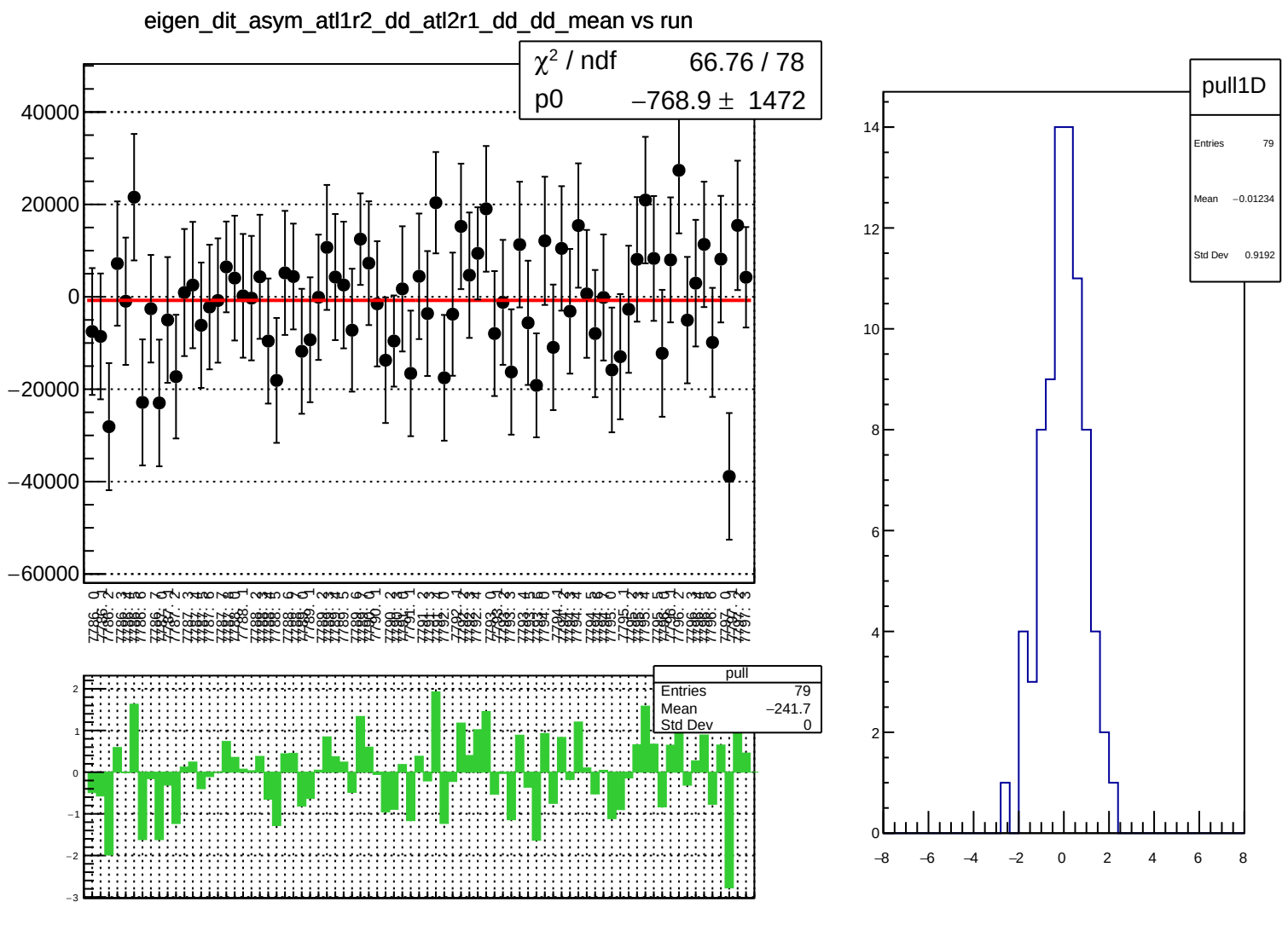

pull1D
Entries 79
Mean −0.01234
Std Dev 0.9192
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

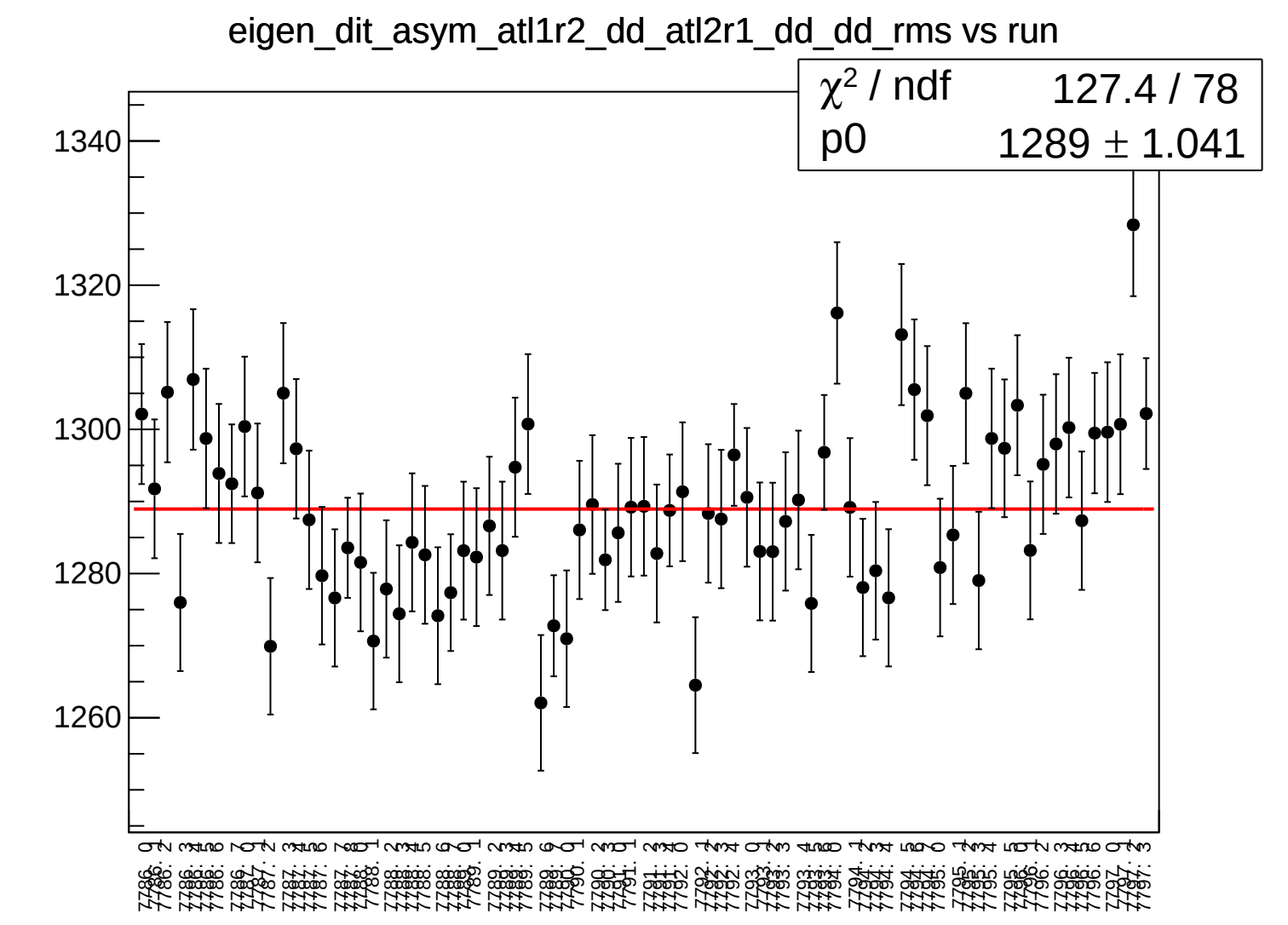

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 127.4 / 78
p0 1289 ± 1.041
1340
1320
1300
1280
1260

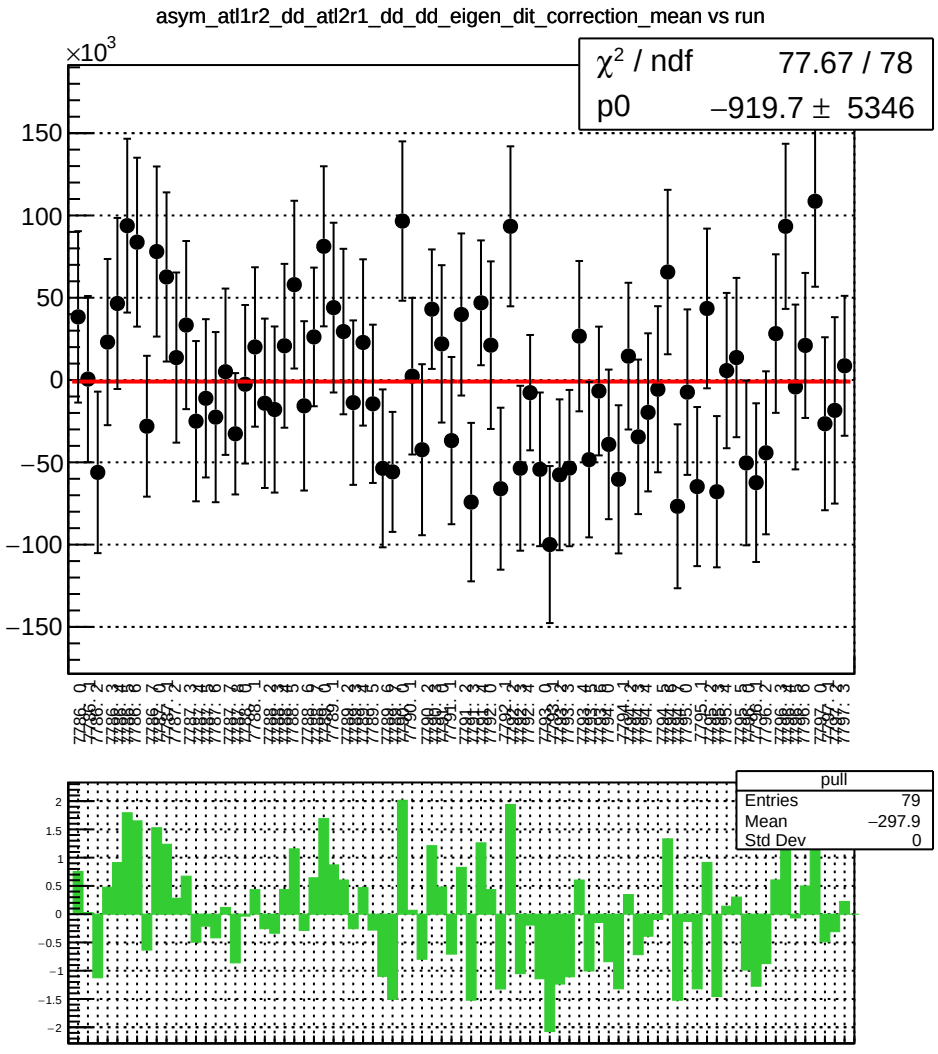

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.67 / 78
p0 −919.7 ± 5346
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −297.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

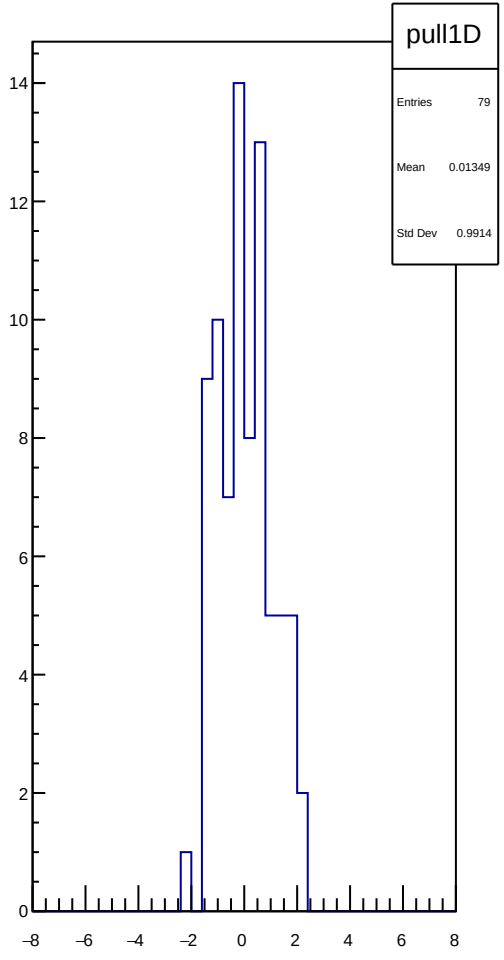

pull1D
Entries 79
Mean 0.01349
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

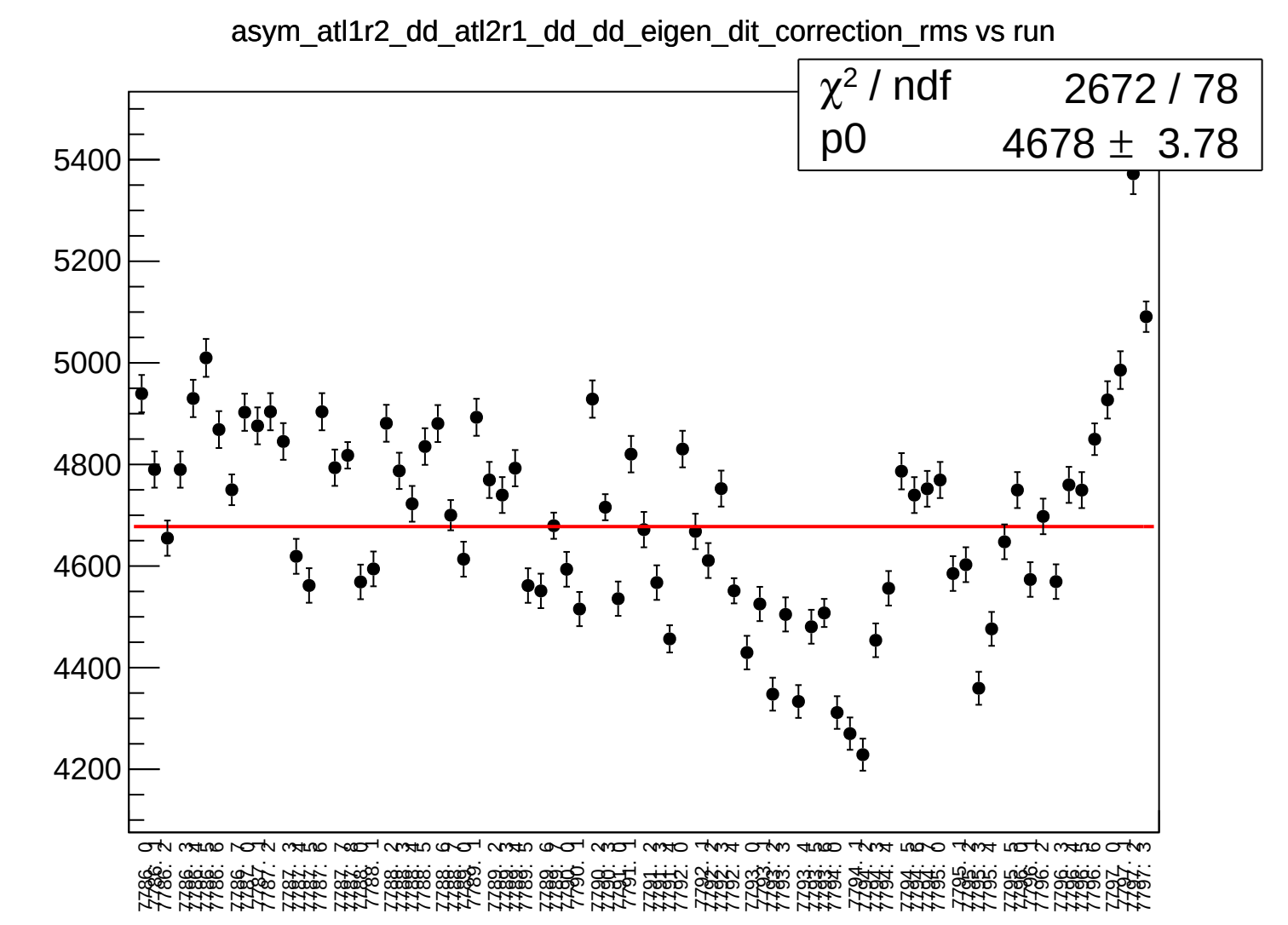

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 2672 / 78
p0 4678 ± 3.78
5400
5200
5000
4800
4600
4400
4200

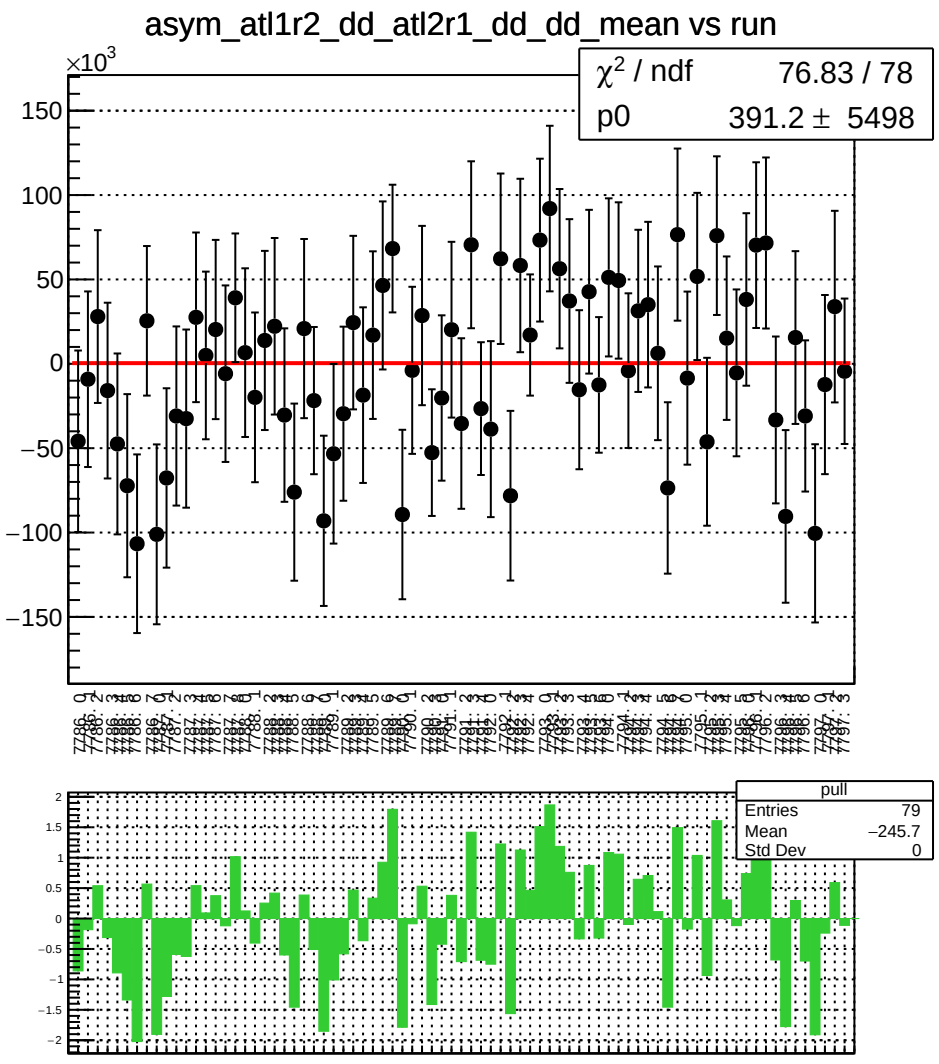

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 66.76 / 78
p0 −768.9 ± 1472
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −241.7
Std Dev 0
pull1D
Entries 79
Mean −0.01234
Std Dev 0.9192

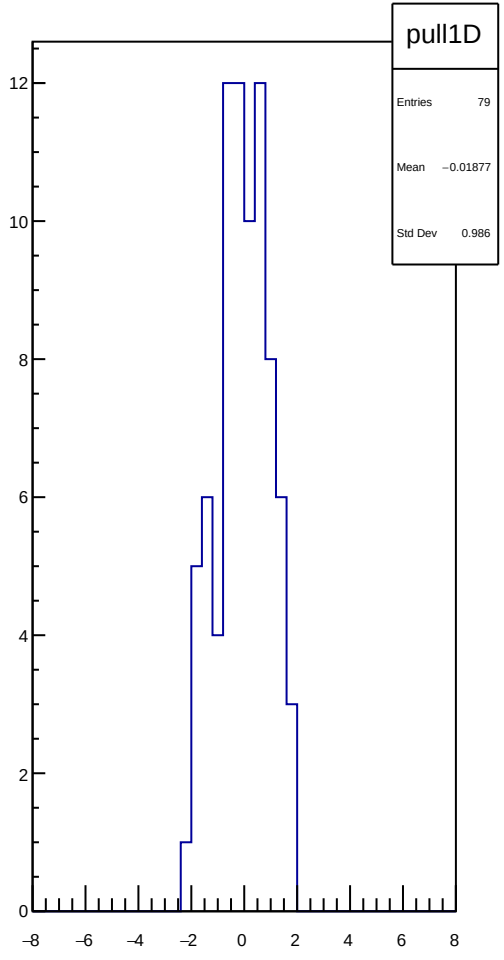

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 127.4 / 78
p0 1289 ± 1.041
1340
1320
1300
1280
1260

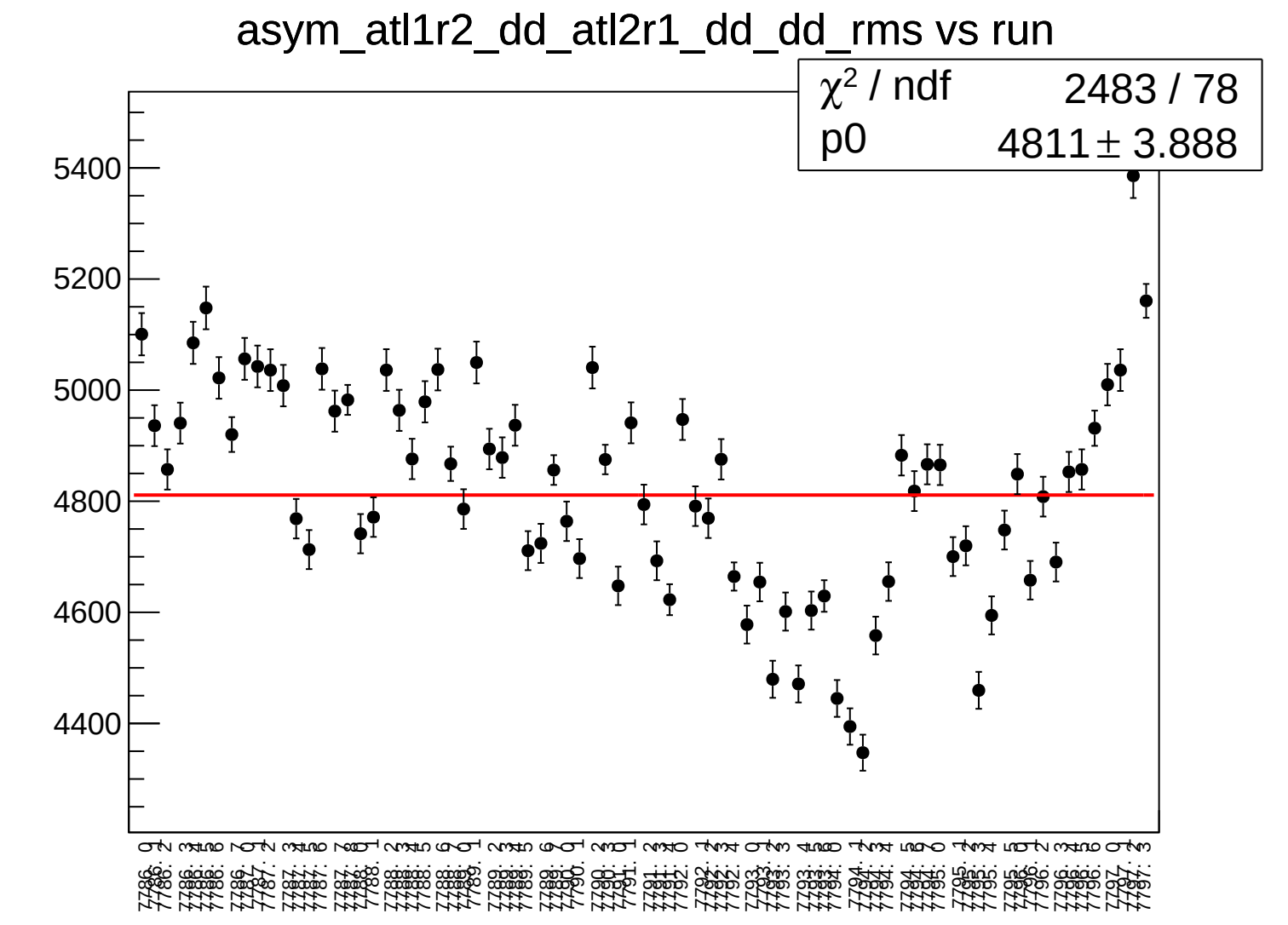

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.67 / 78
p0 −919.7 ± 5346
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −297.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

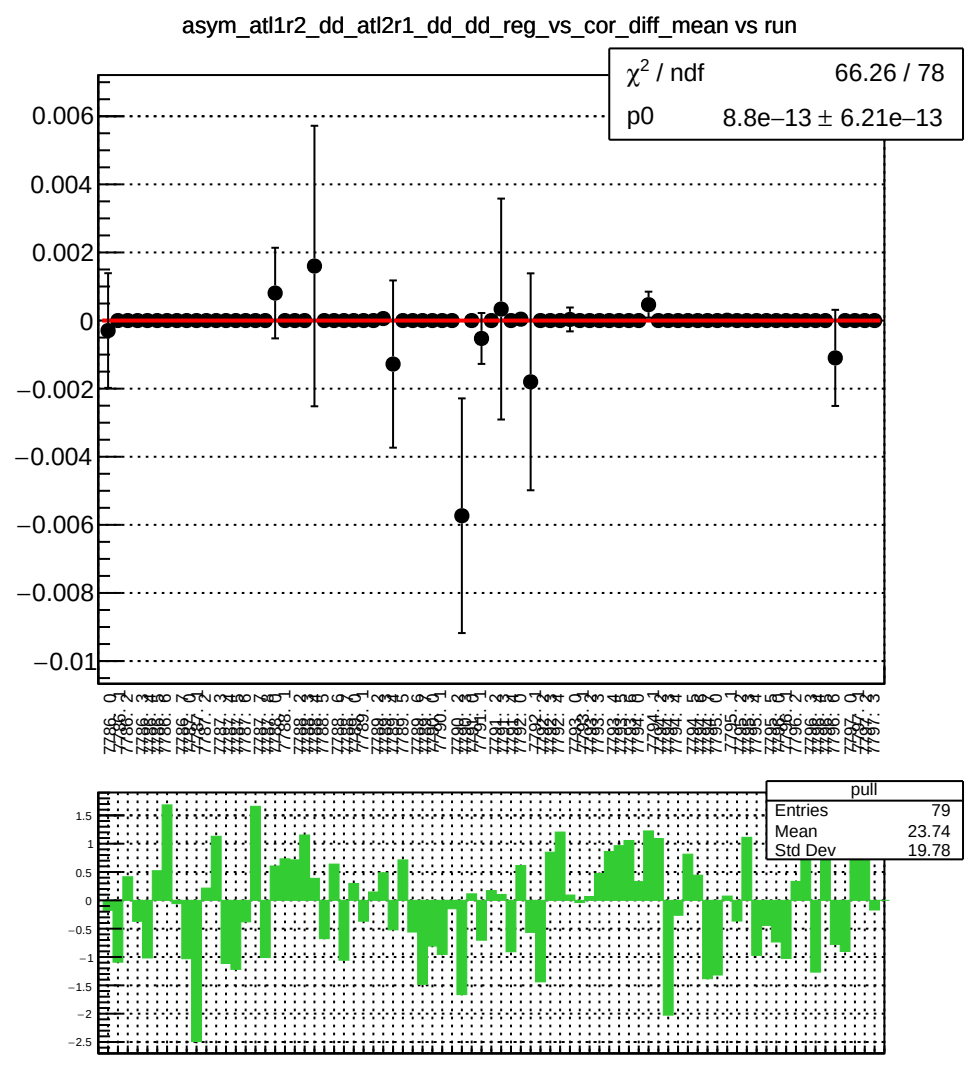

pull1D
Entries 79
Mean 0.01349
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

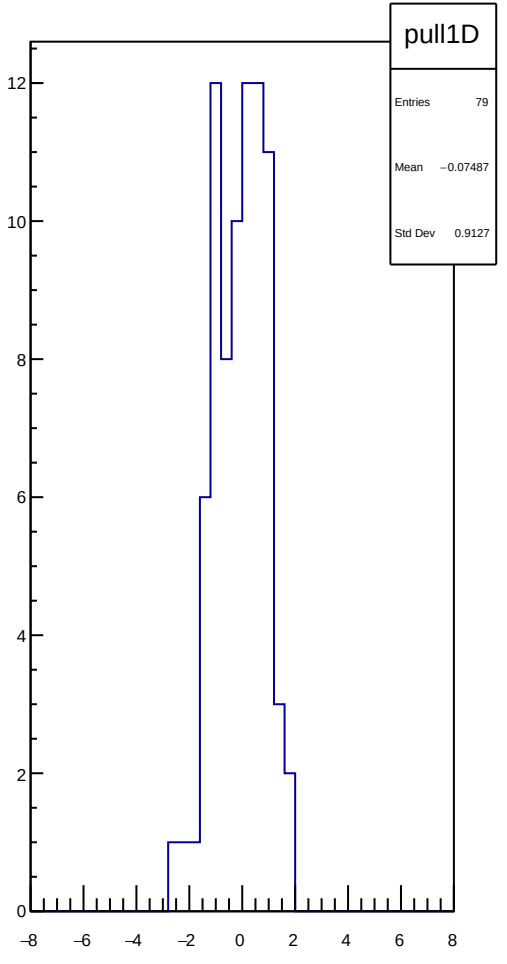

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2672 / 78
p0 4678 ± 3.78
5400
5200
5000
4800
4600
4400
4200

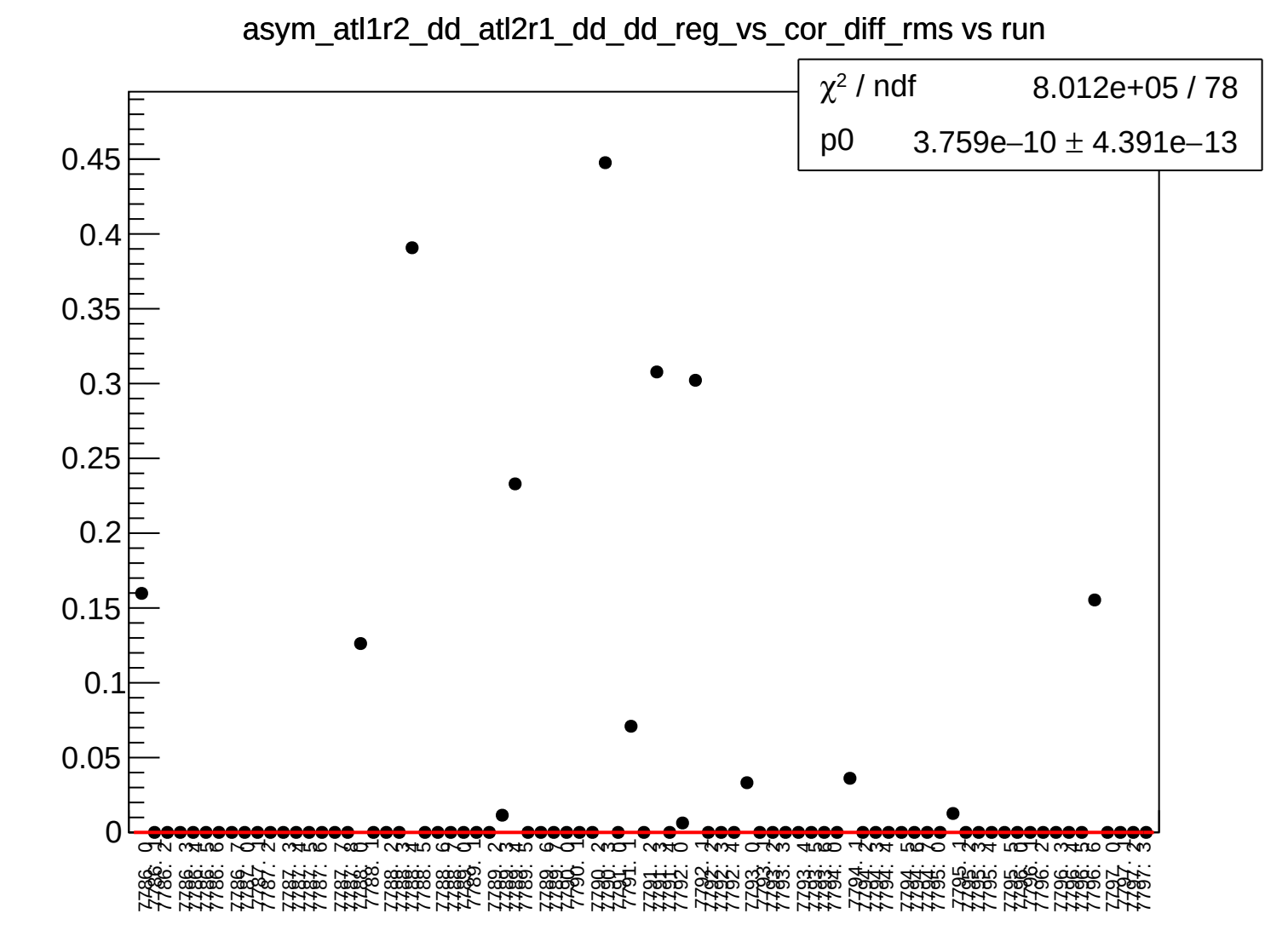

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 76.83 / 78
p0 391.2 ± 5498
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −245.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

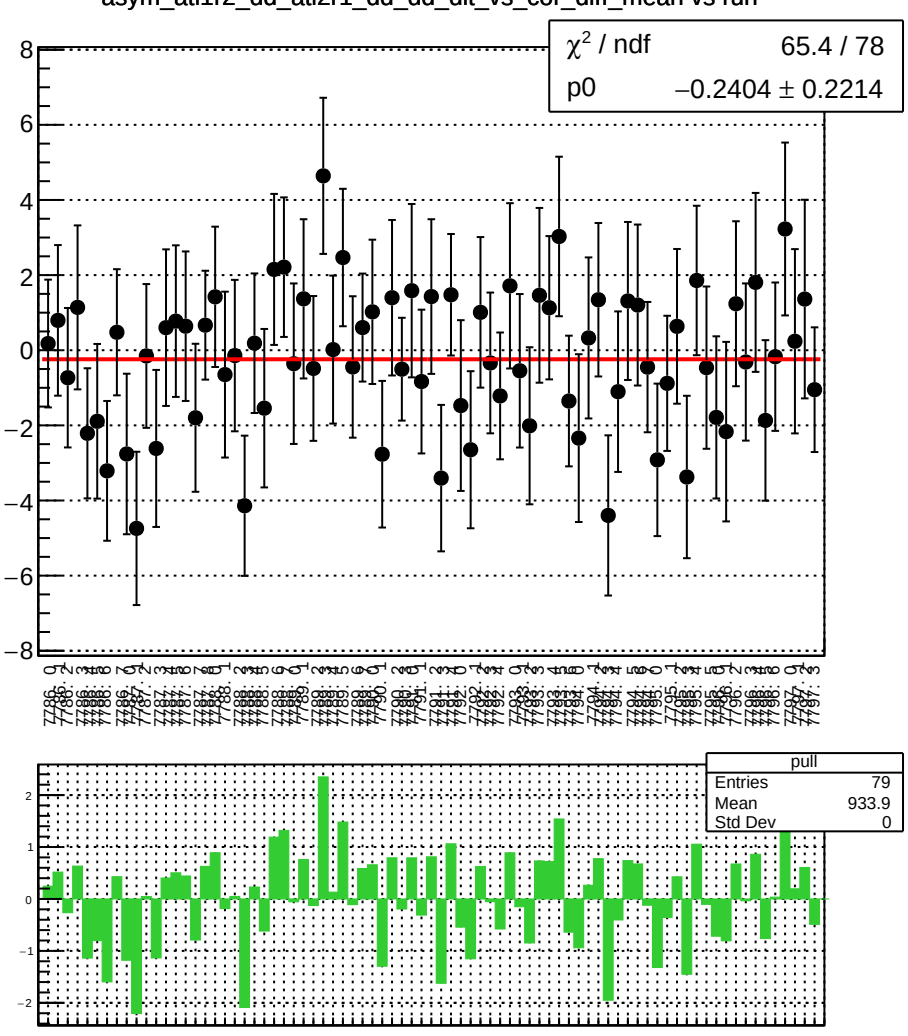

pull1D
Entries 79
Mean −0.01877
Std Dev 0.986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

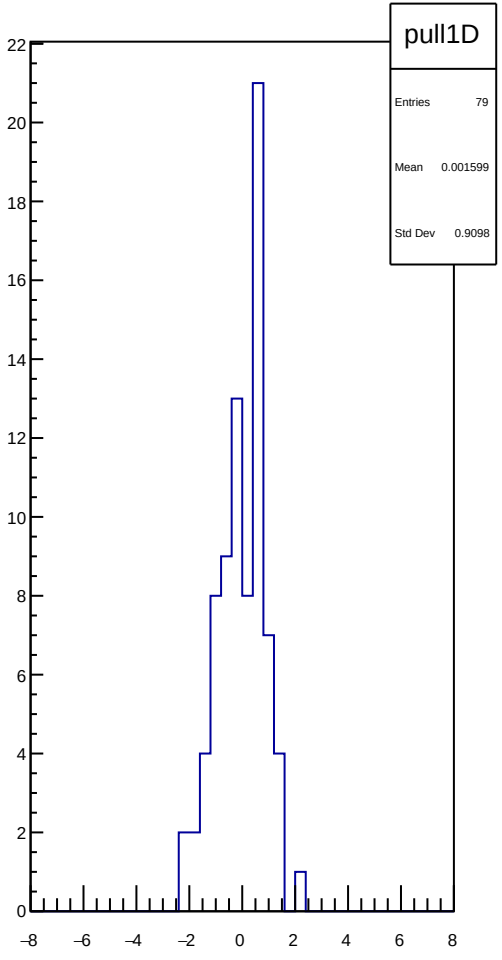

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2483 / 78
p0 4811 ± 3.888
5400
5200
5000
4800
4600
4400

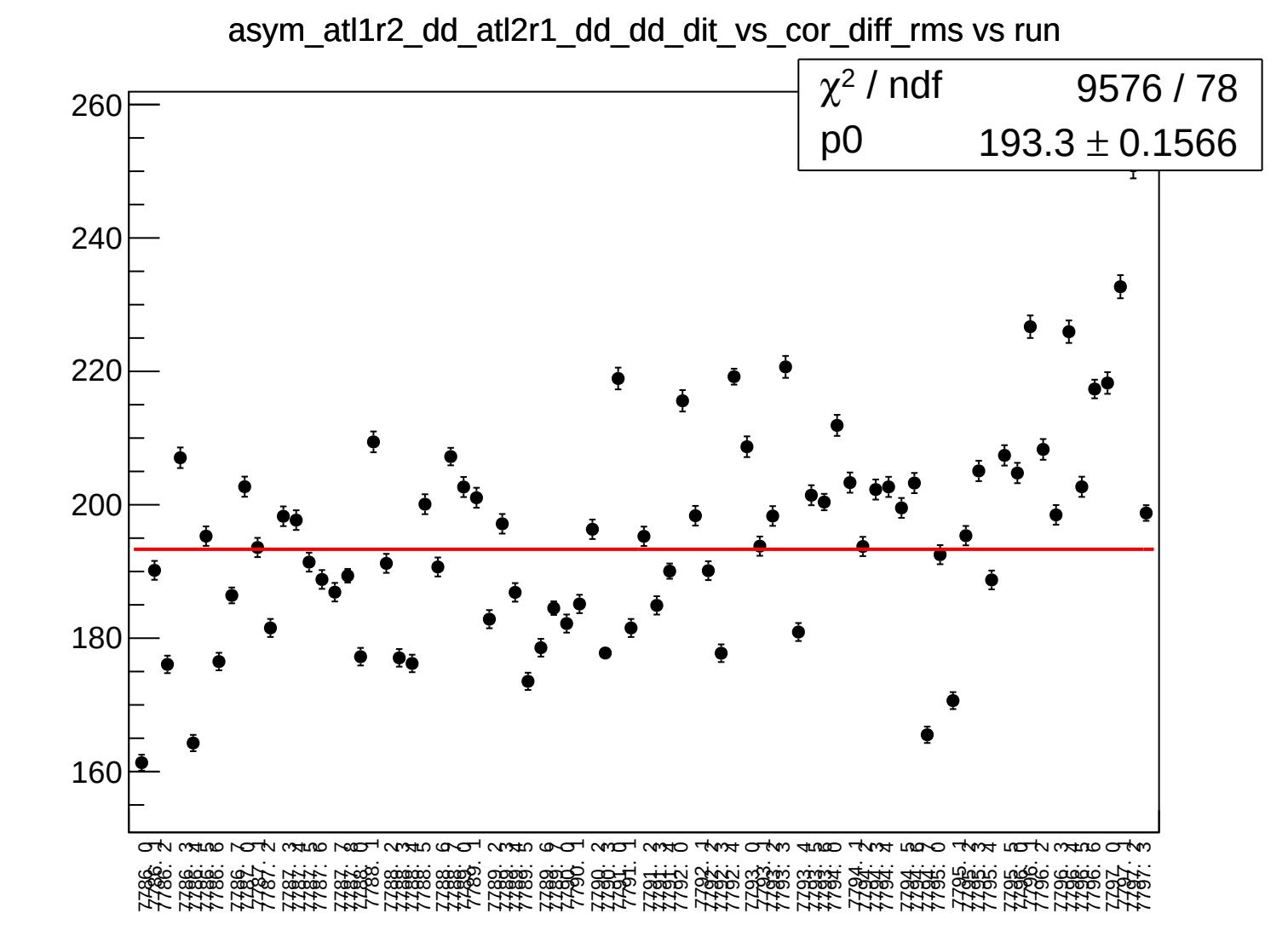

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.26 / 78
p0 8.8e−13 ± 6.21e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 79
Mean 23.74
Std Dev 19.78
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

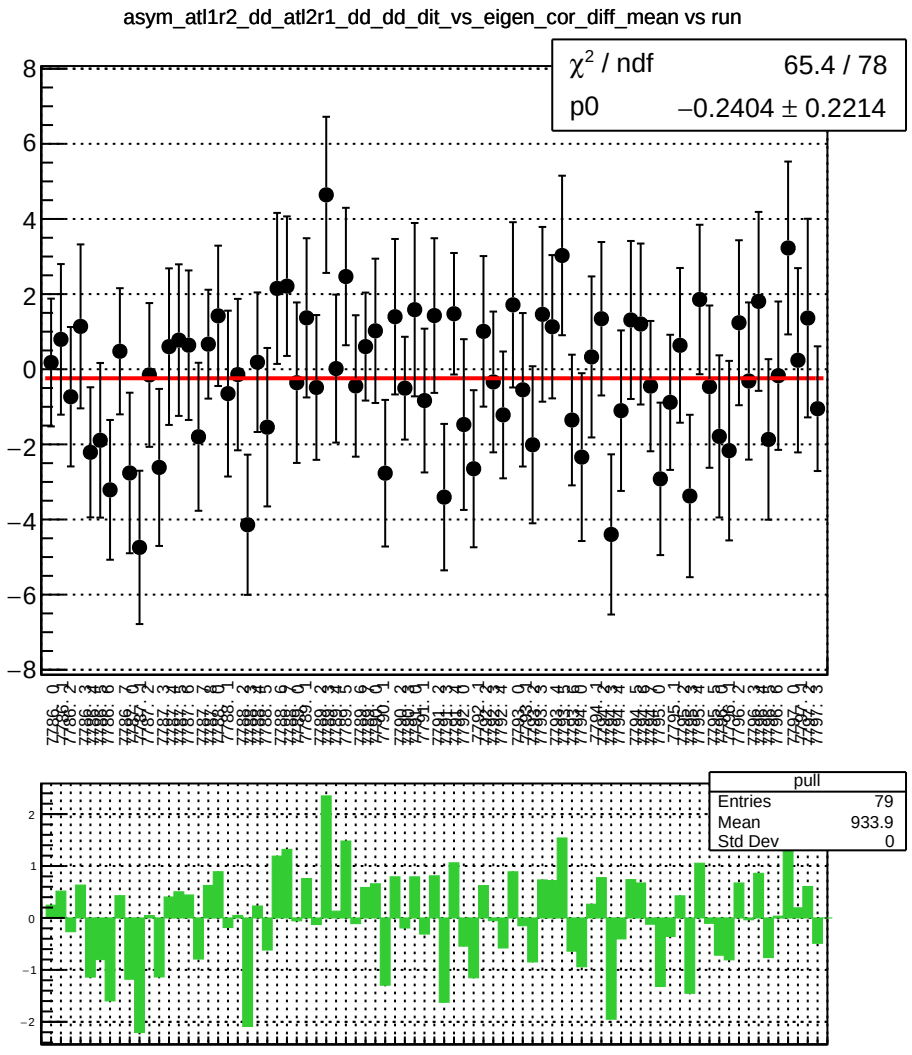

pull1D
Entries 79
Mean −0.07487
Std Dev 0.9127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

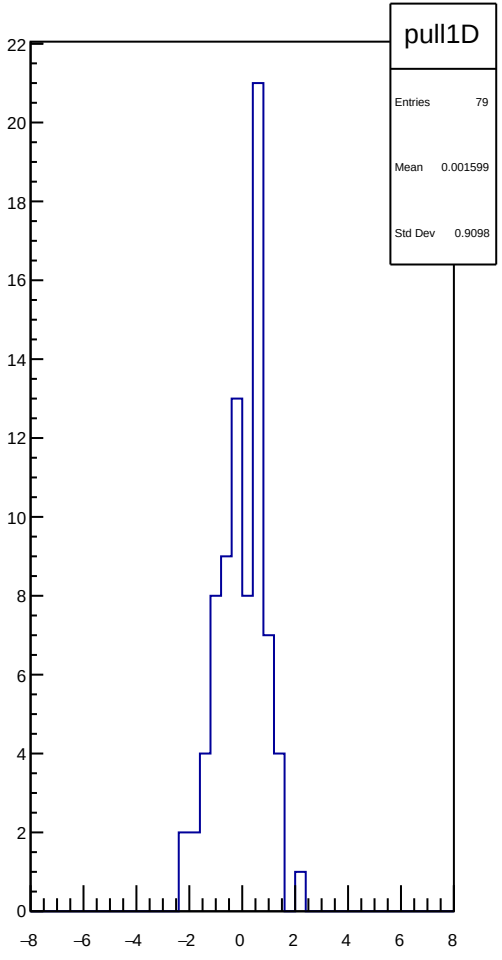

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.012e+05 / 78
p0 3.759e−10 ± 4.391e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

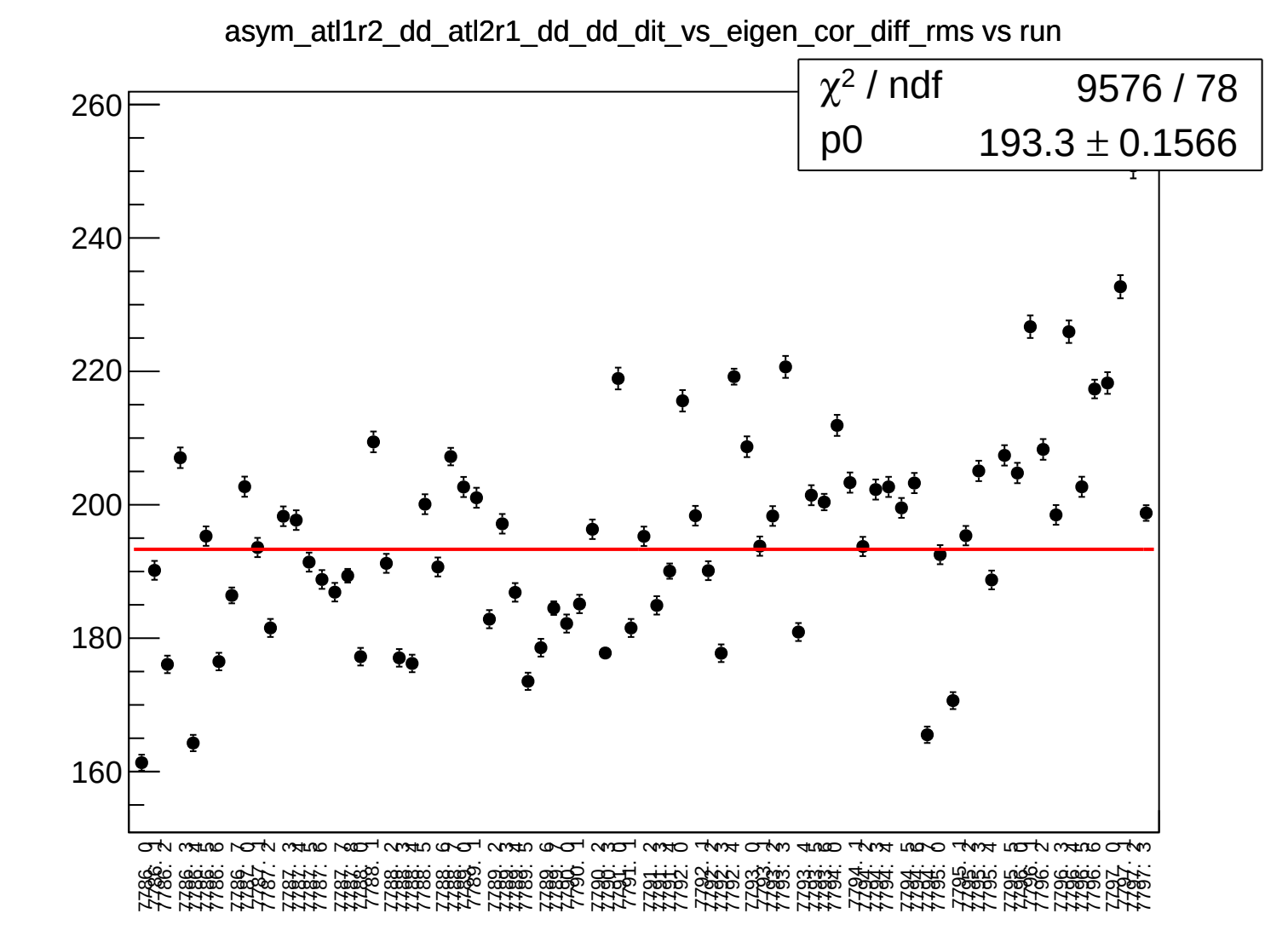

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.4 / 78
p0 −0.2404 ± 0.2214
pull
Entries 79
Mean 933.9
Std Dev 0

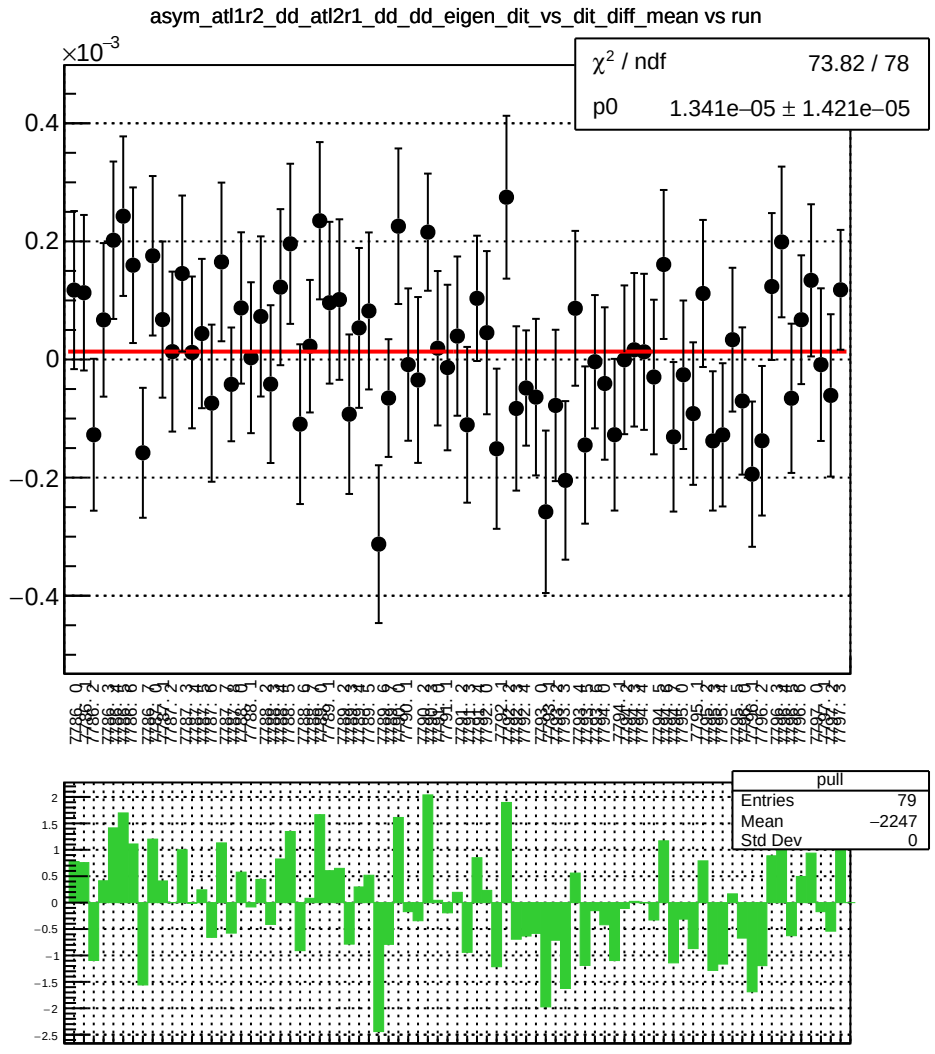

pull1D
Entries 79
Mean 0.001599
Std Dev 0.9098

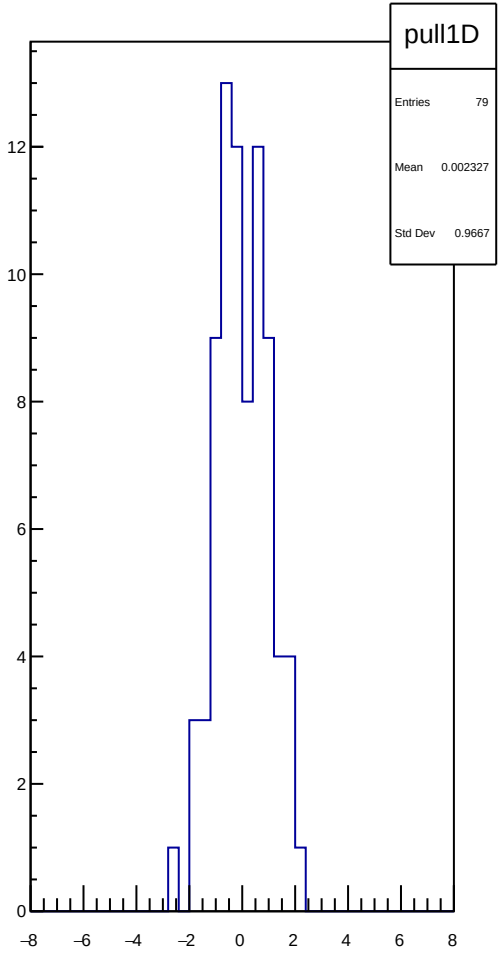

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9576 / 78
p0 193.3 ± 0.1566
260
240
220
200
180
160

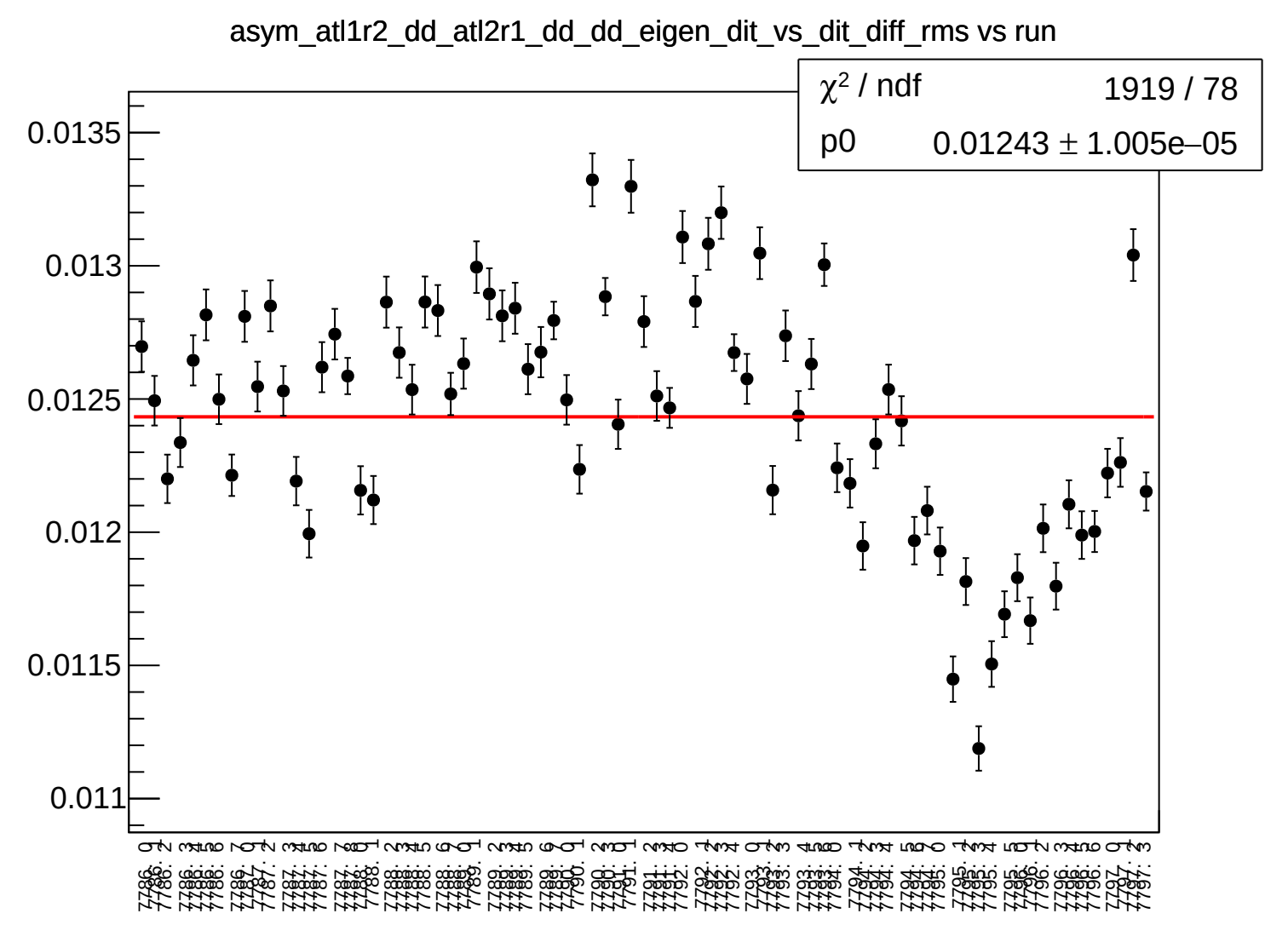

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.4 / 78
p0 −0.2404 ± 0.2214
pull
Entries 79
Mean 933.9
Std Dev 0

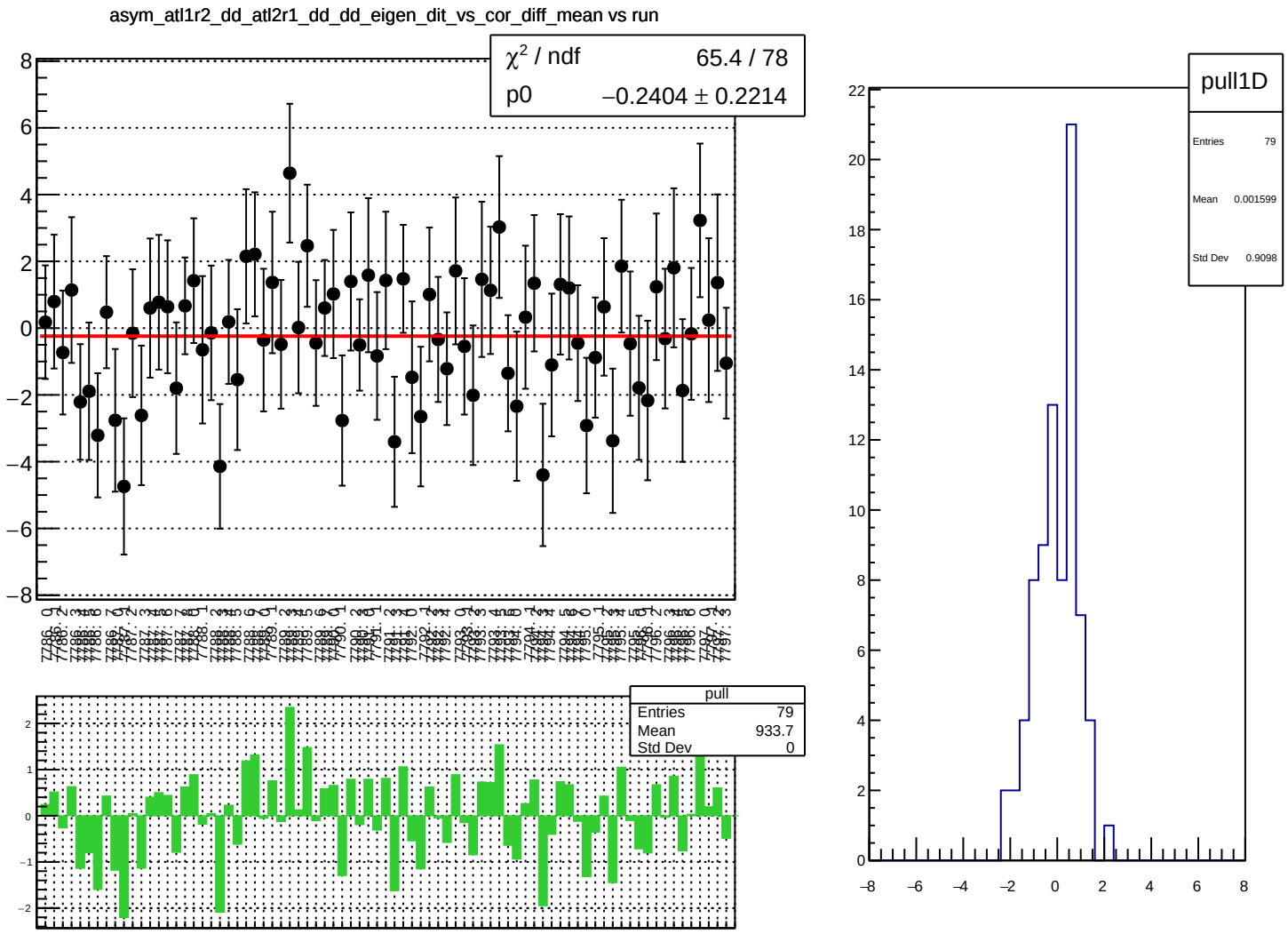

pull1D
Entries 79
Mean 0.001599
Std Dev 0.9098

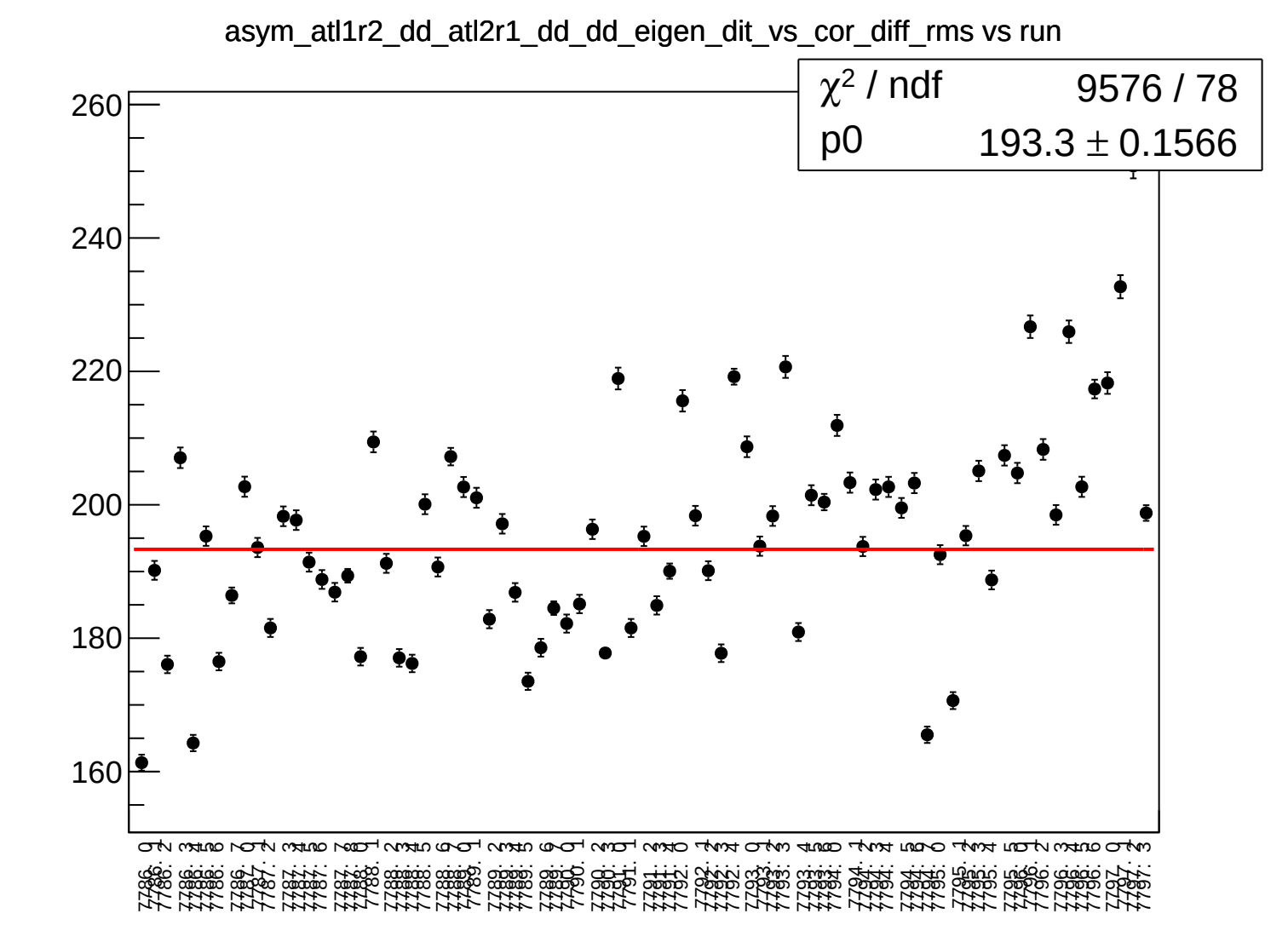

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9576 / 78
p0 193.3 ± 0.1566
260
240
220
200
180
160

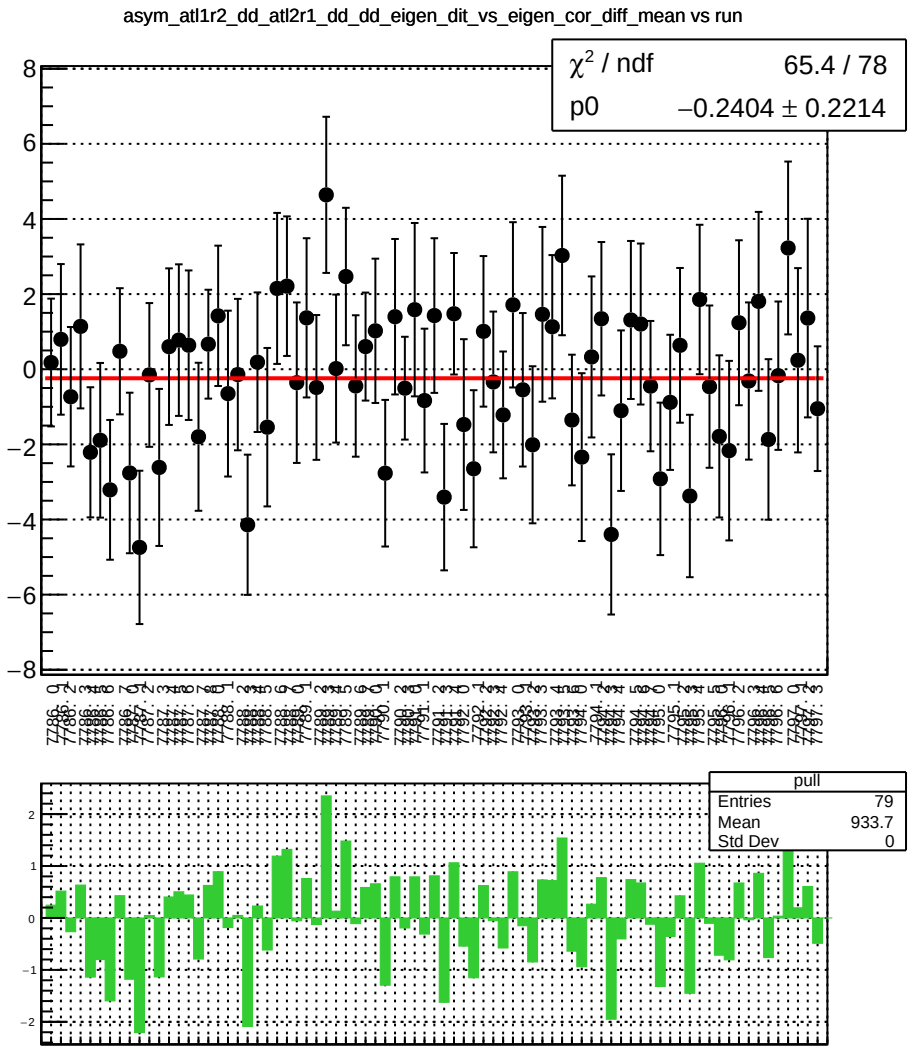

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.82 / 78
p0 1.341e−05 ± 1.421e−05
pull
Entries 79
Mean −2247
Std Dev 0

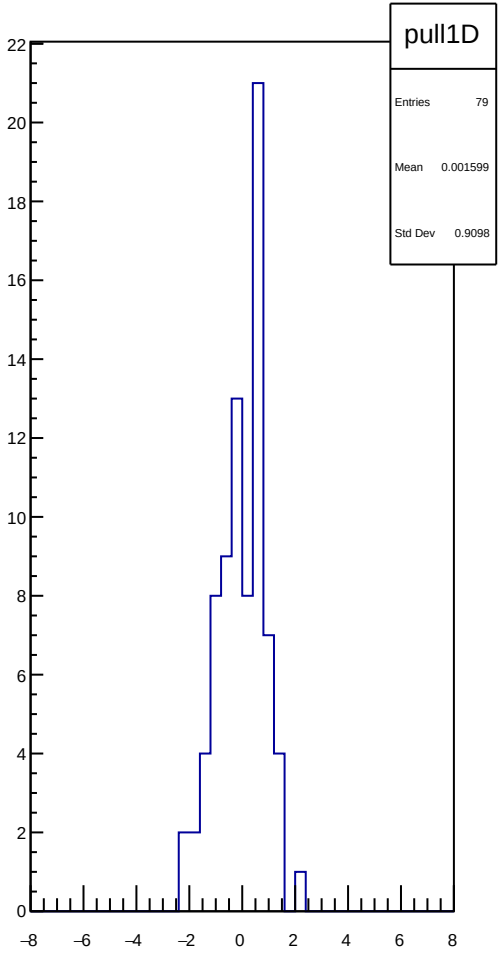

pull1D
Entries 79
Mean 0.002327
Std Dev 0.9667

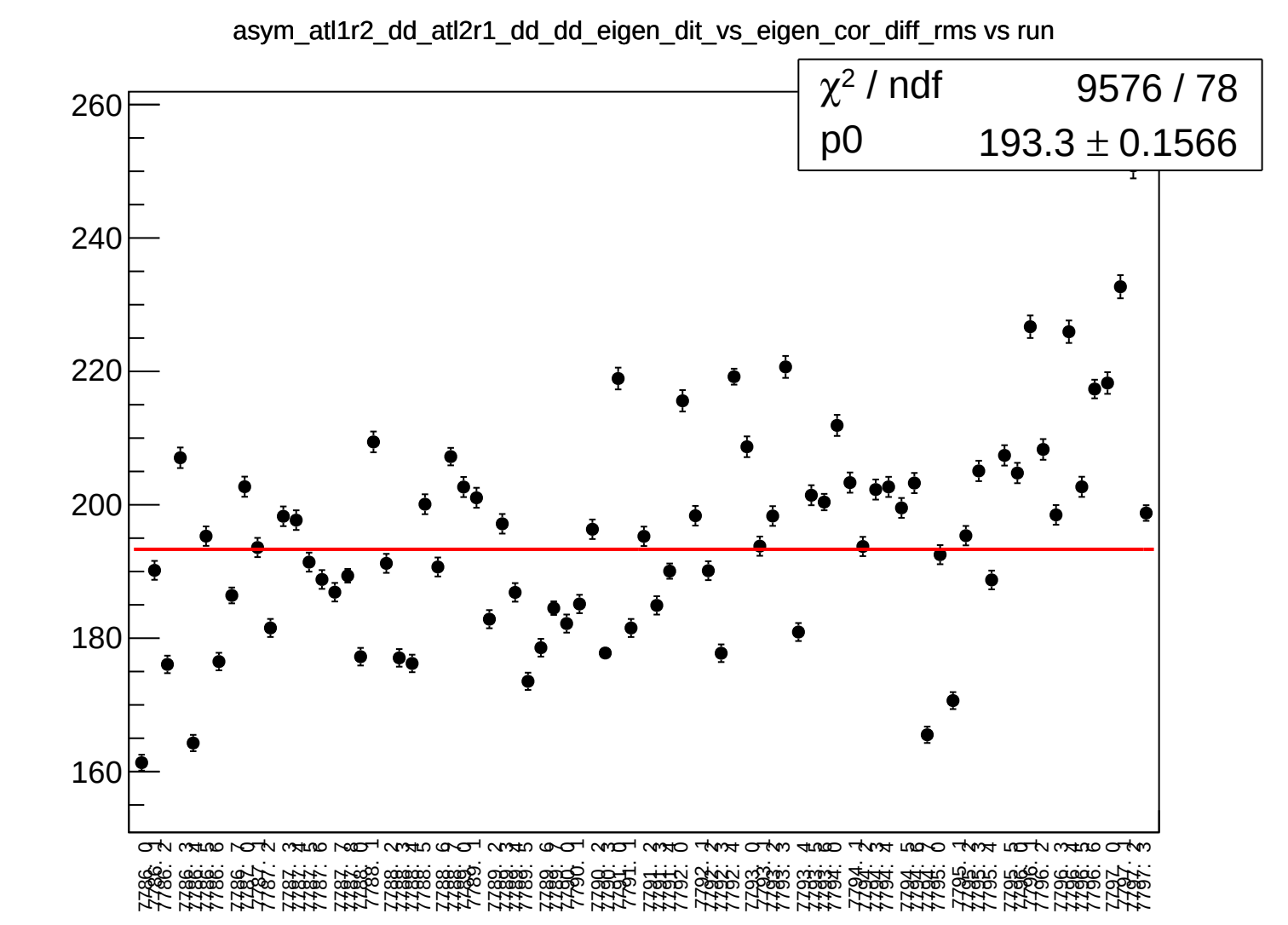

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1919 / 78
p0 0.01243 ± 1.005e−05
0.0135
0.013
0.0125
0.012
0.0115
0.011

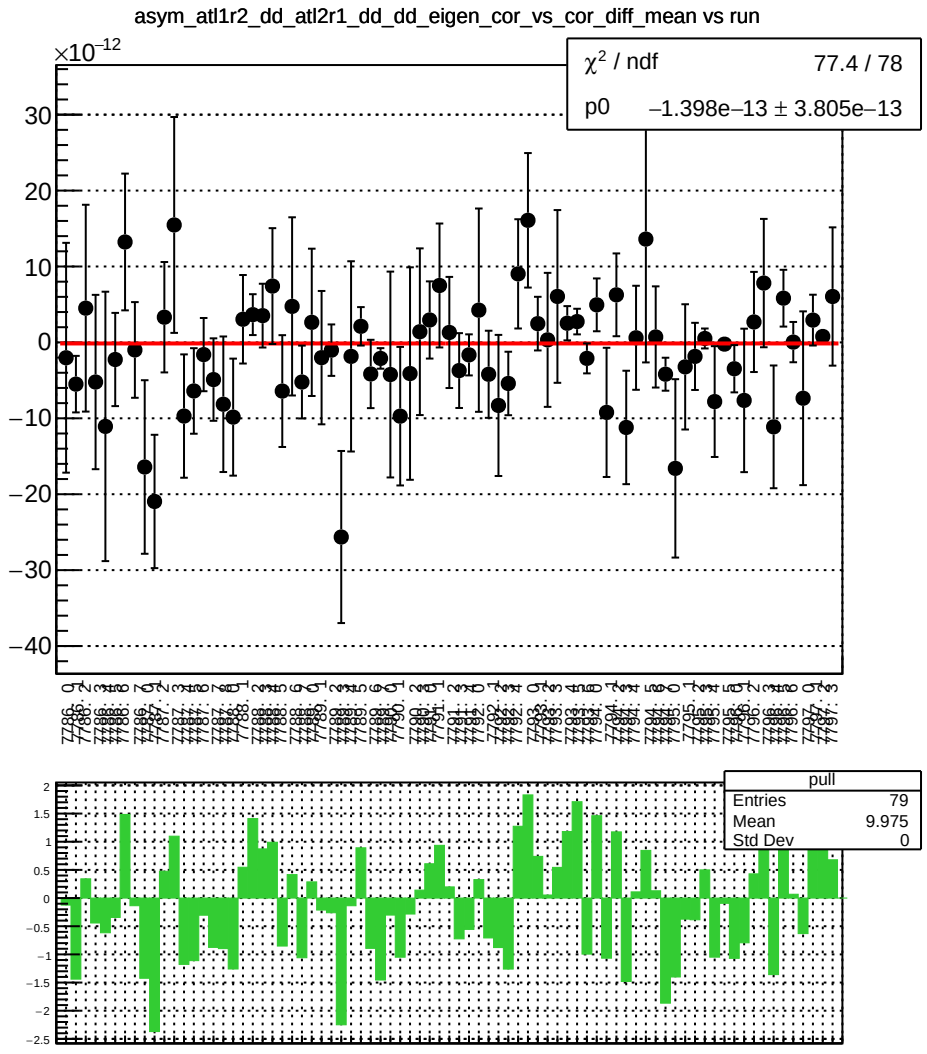

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.4 / 78
p0 −0.2404 ± 0.2214
pull
Entries 79
Mean 933.7
Std Dev 0
pull1D
Entries 79
Mean 0.001599
Std Dev 0.9098

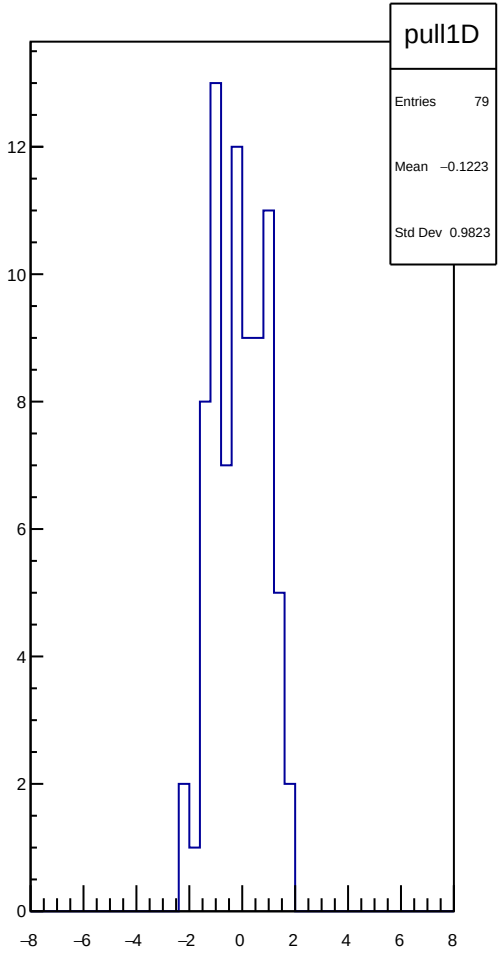

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9576 / 78
p0 193.3 ± 0.1566
260
240
220
200
180
160

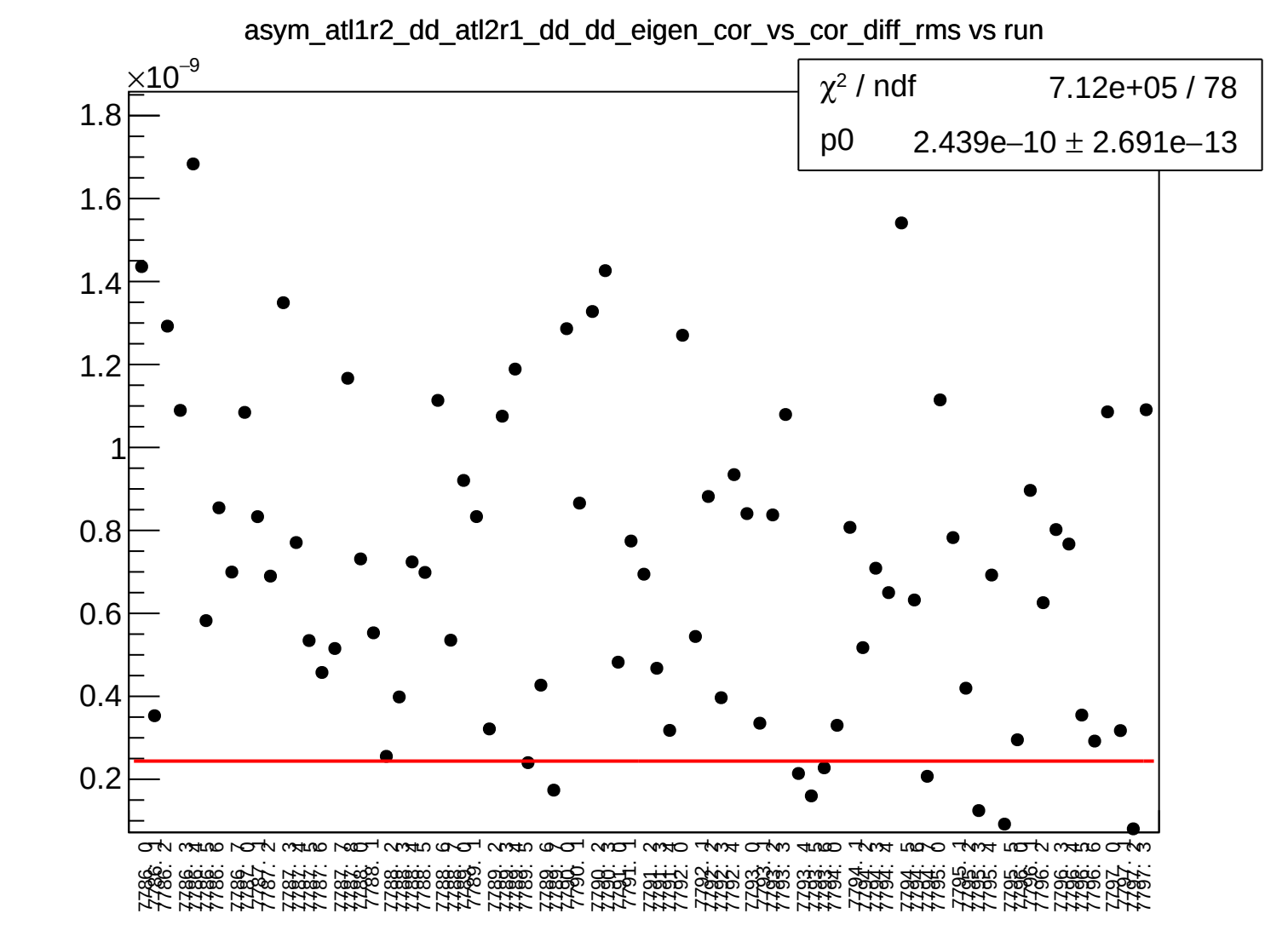

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.4 / 78
p0 −0.2404 ± 0.2214
pull
Entries 79
Mean 933.7
Std Dev 0

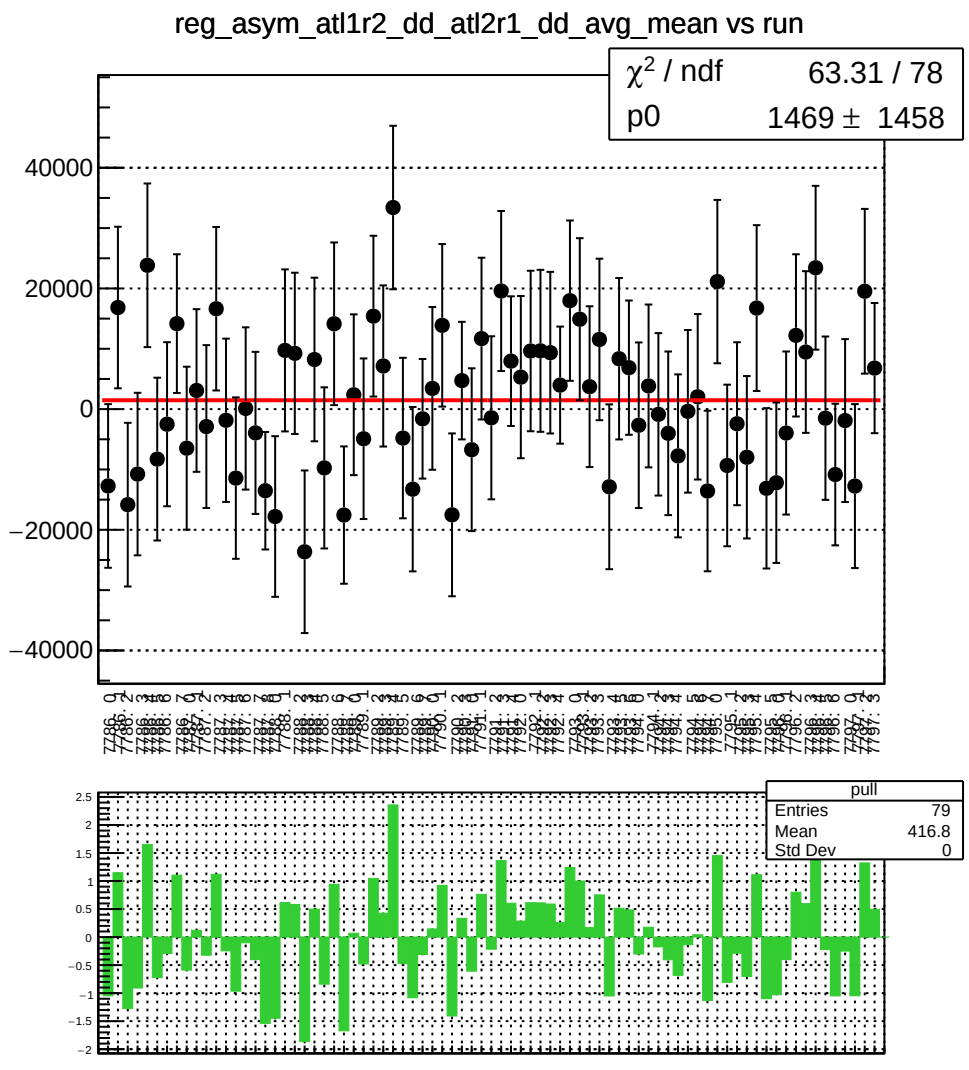

pull1D
Entries 79
Mean 0.001599
Std Dev 0.9098

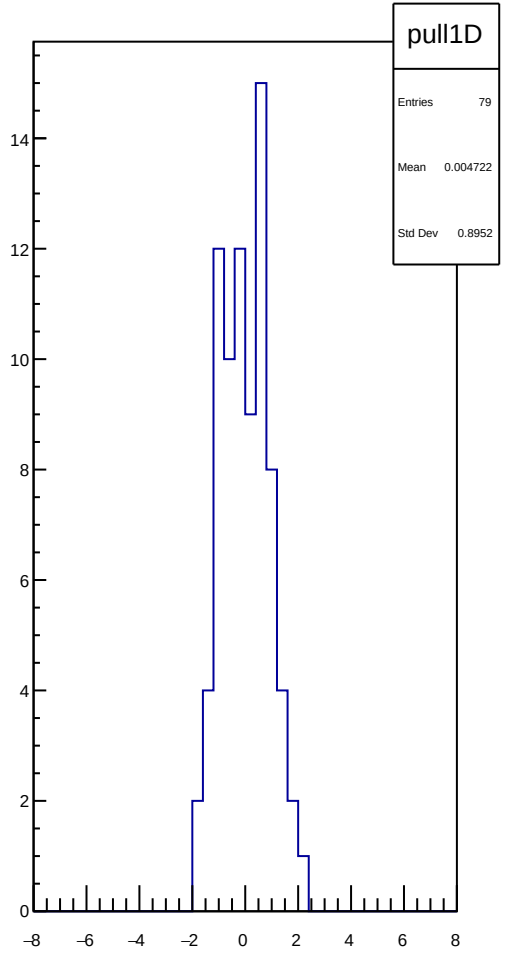

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9576 / 78
p0 193.3 ± 0.1566
260
240
220
200
180
160

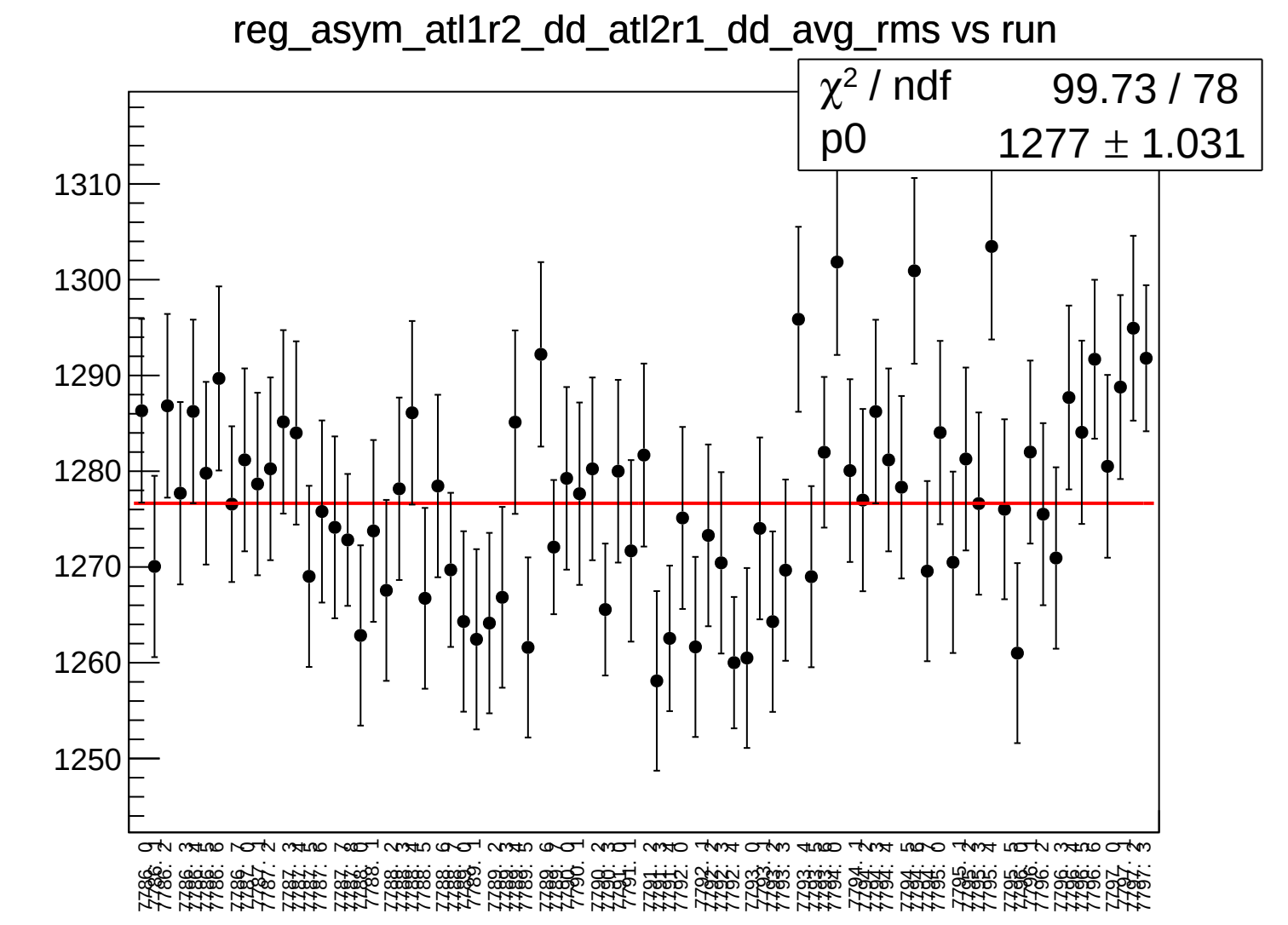

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.4 / 78
p0 −1.398e−13 ± 3.805e−13
pull
Entries 79
Mean 9.975
Std Dev 0

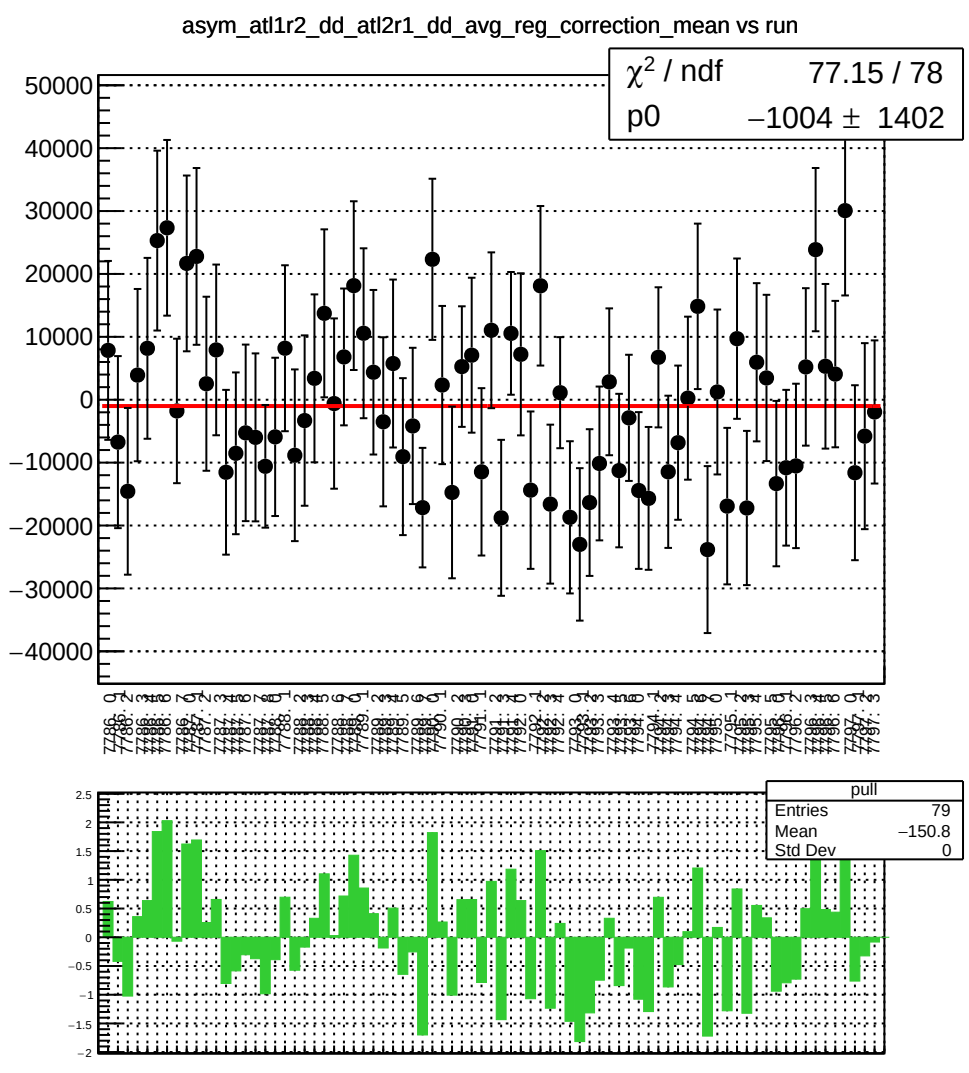

pull1D
Entries 79
Mean −0.1223
Std Dev 0.9823

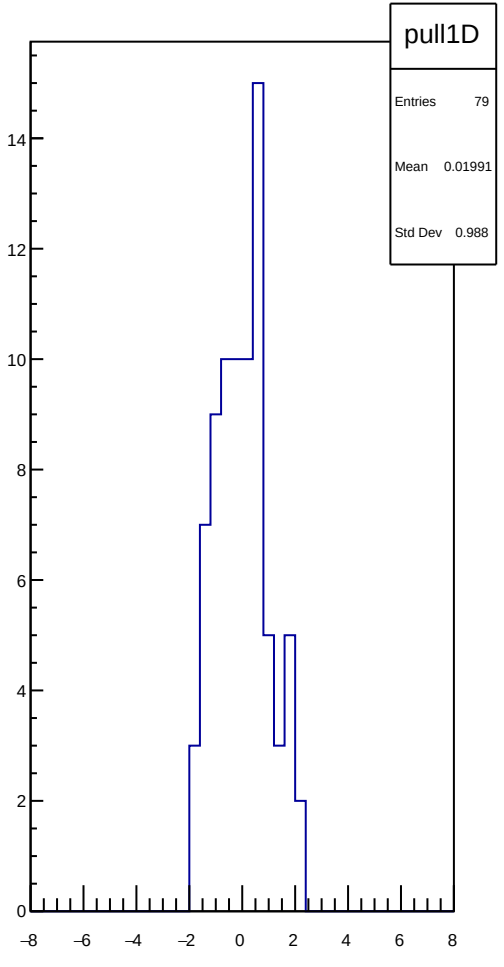

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.12e+05 / 78
p0 2.439e−10 ± 2.691e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

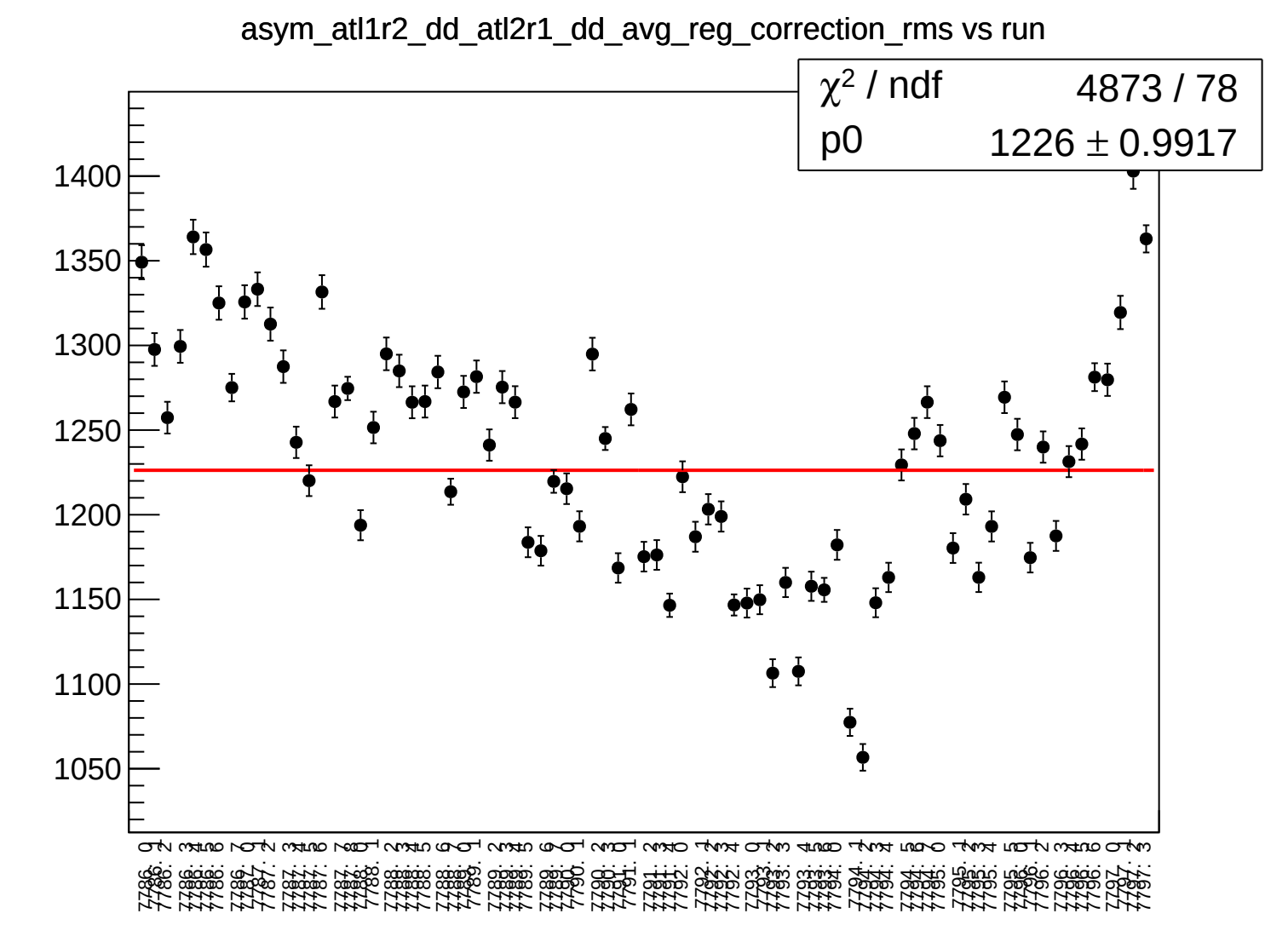

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 63.31 / 78
p0 1469 ± 1458
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 416.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

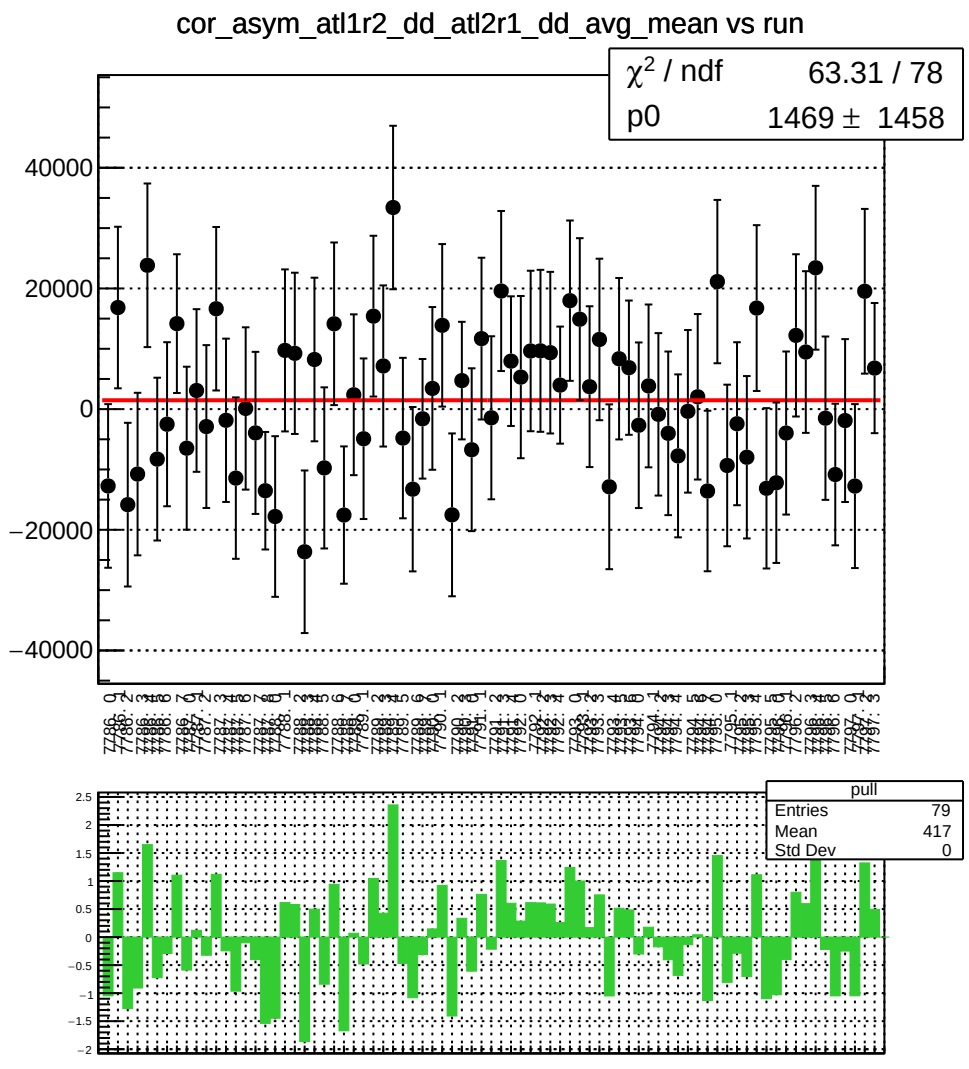

pull1D
Entries 79
Mean 0.004722
Std Dev 0.8952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

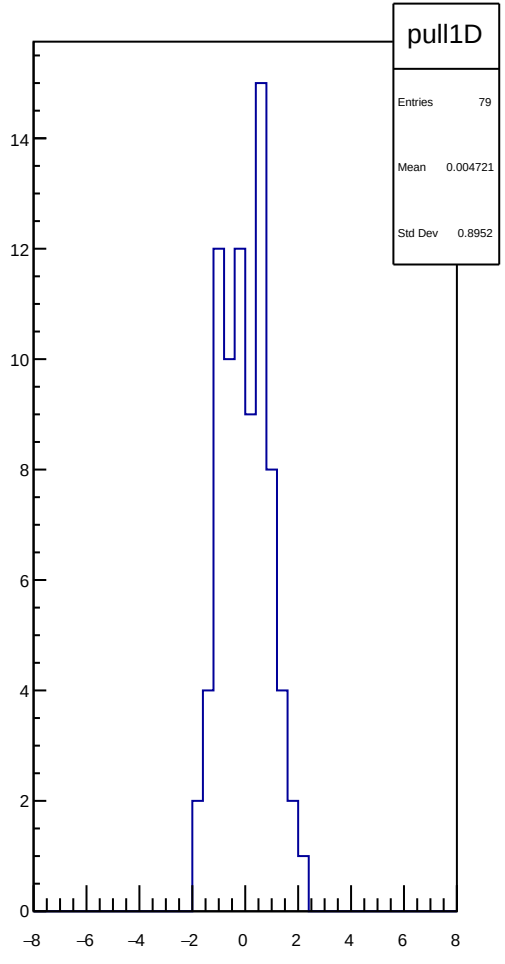

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 99.73 / 78
p0 1277 ± 1.031
1310
1300
1290
1280
1270
1260
1250

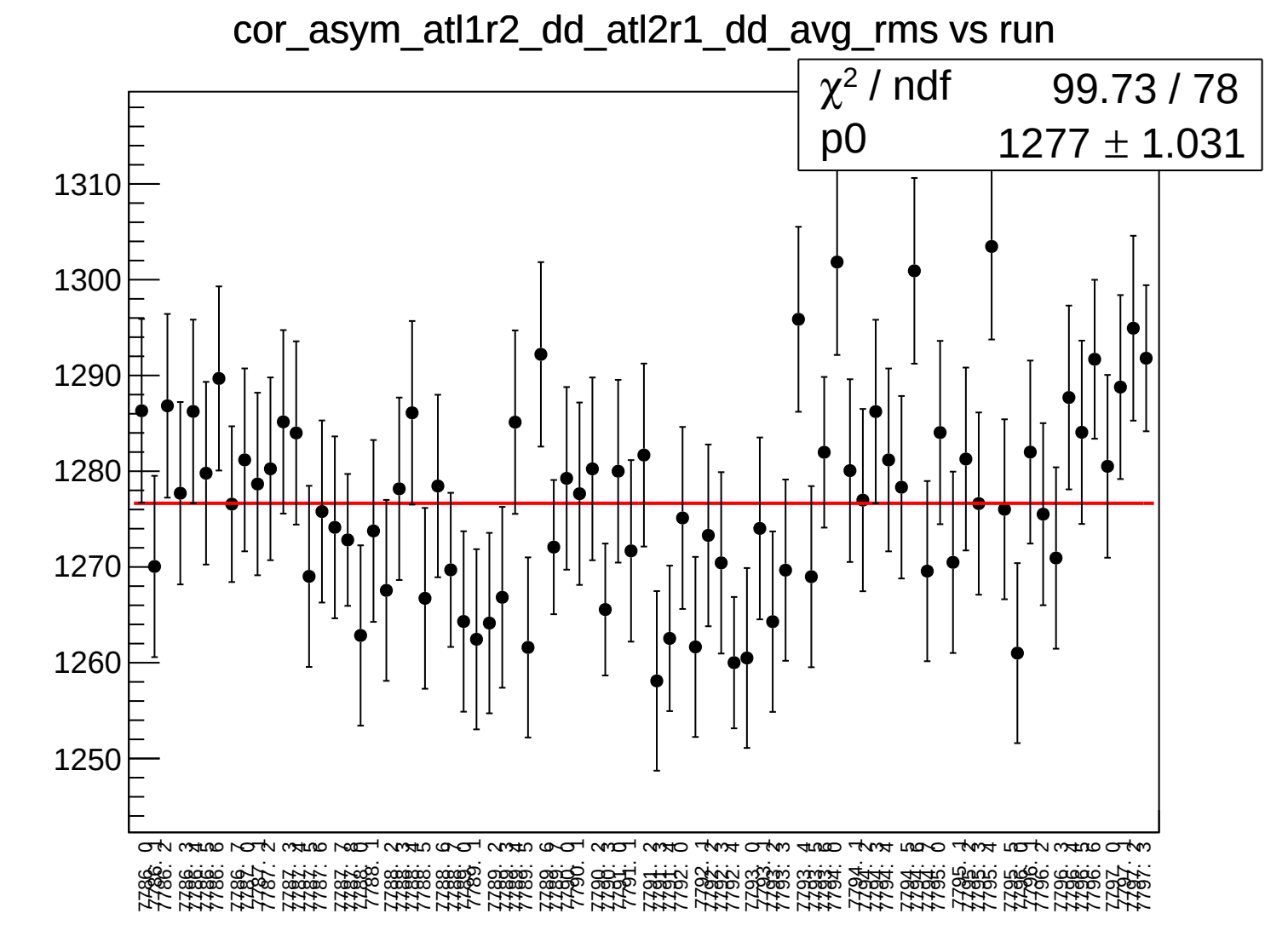

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 77.15 / 78
p0 −1004 ± 1402
pull
Entries 79
Mean −150.8
Std Dev 0

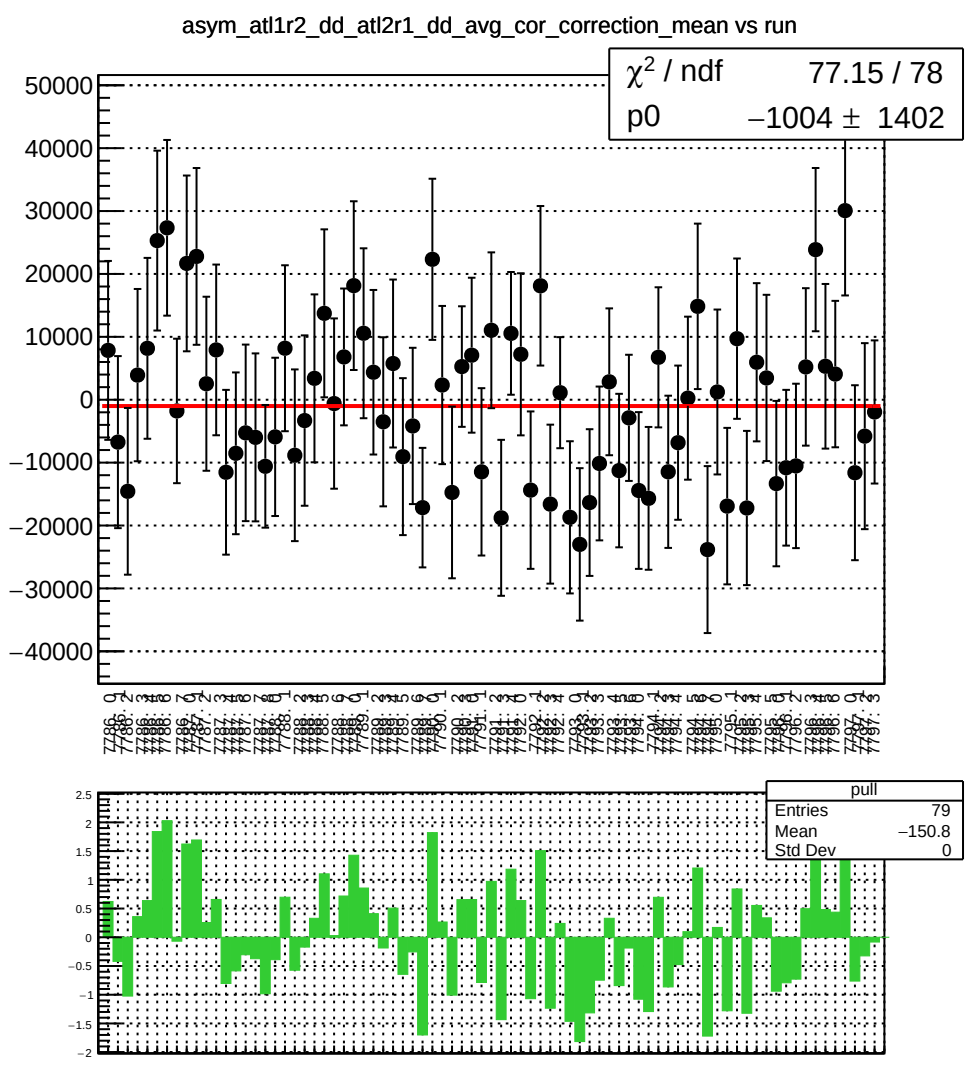

pull1D
Entries 79
Mean 0.01991
Std Dev 0.988

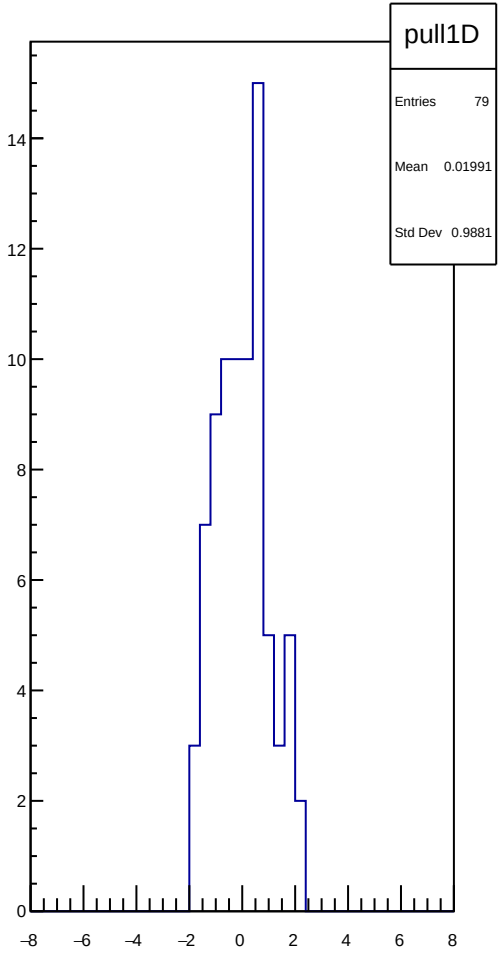

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 4873 / 78
p0 1226 ± 0.9917
1400
1350
1300
1250
1200
1150
1100
1050

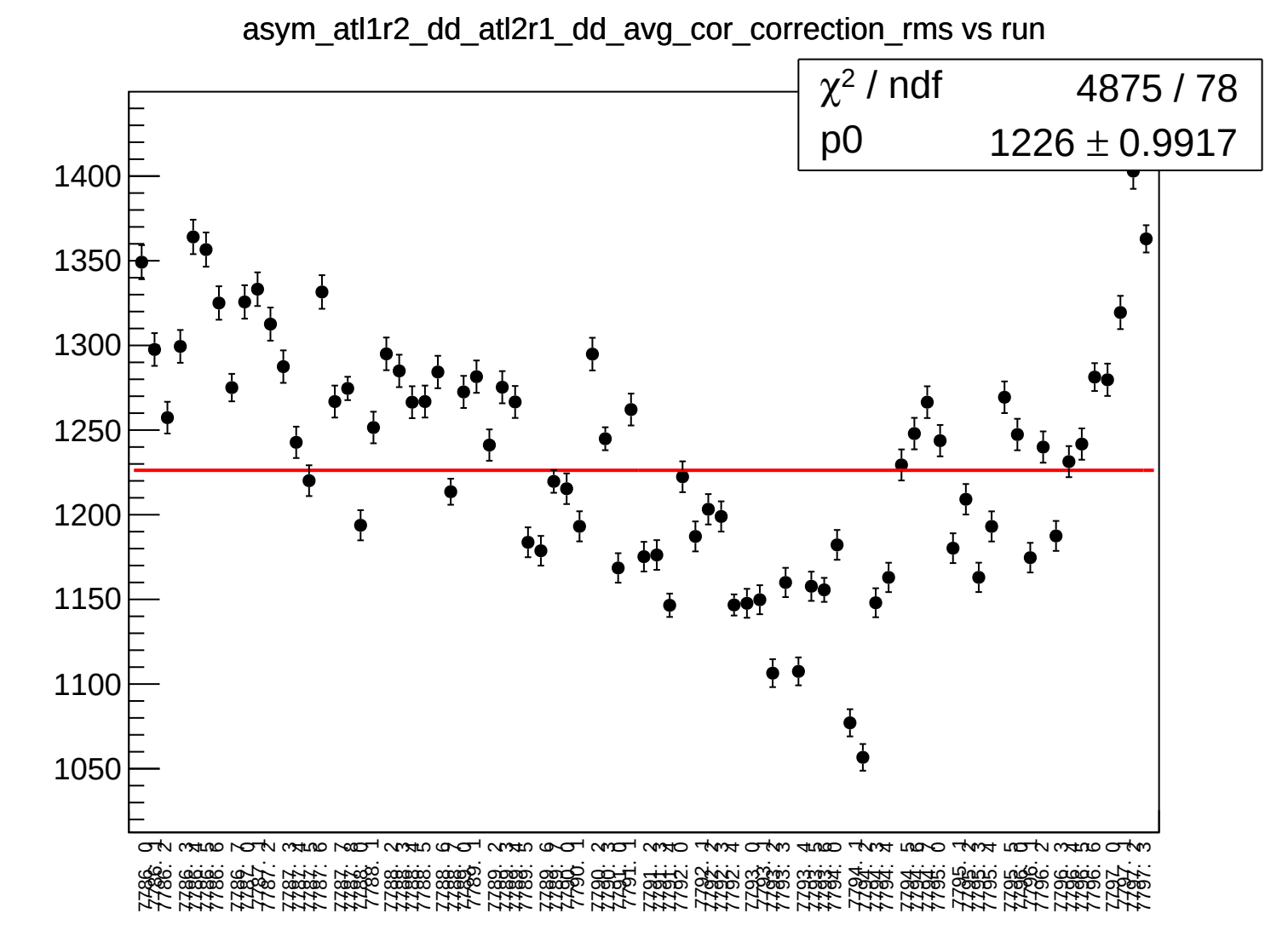

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 63.31 / 78
p0 1469 ± 1458
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 417
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

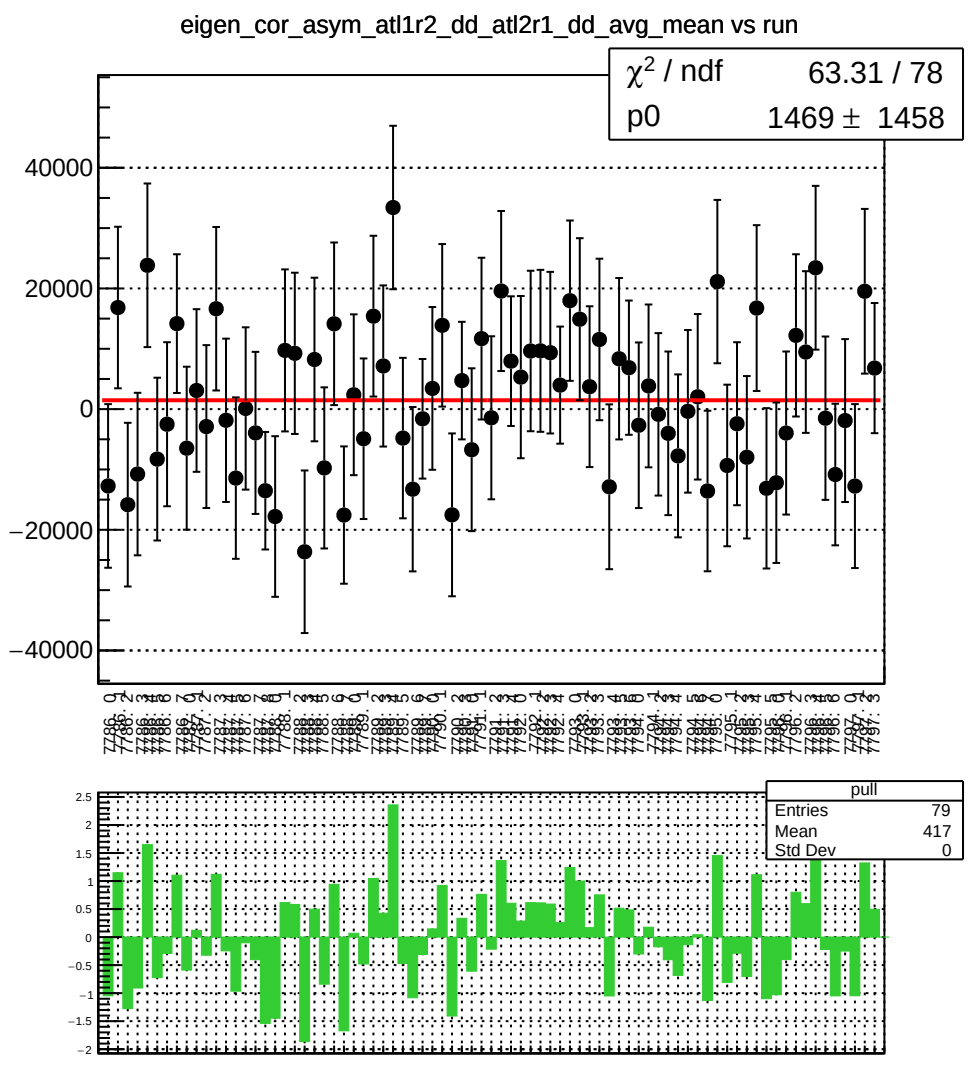

pull1D
Entries 79
Mean 0.004721
Std Dev 0.8952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

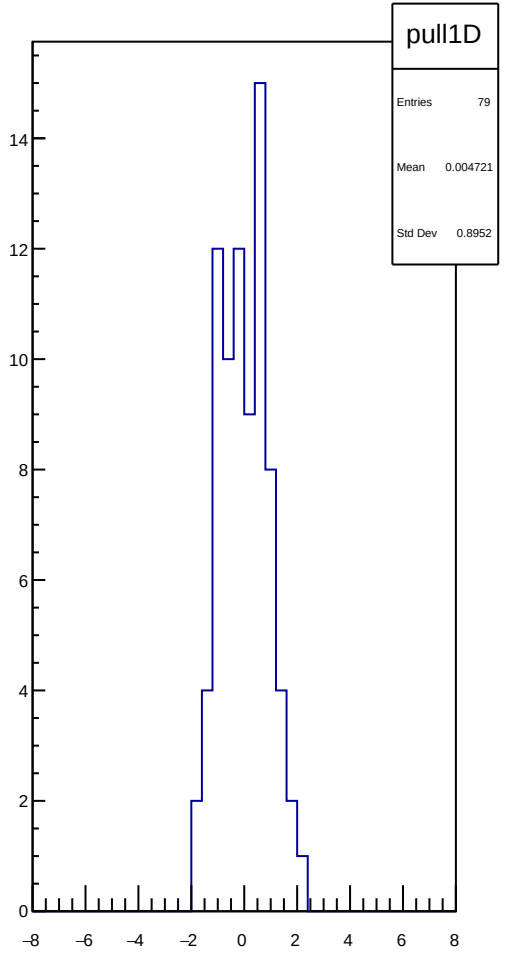

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 99.73 / 78
p0 1277 ± 1.031
1310
1300
1290
1280
1270
1260
1250

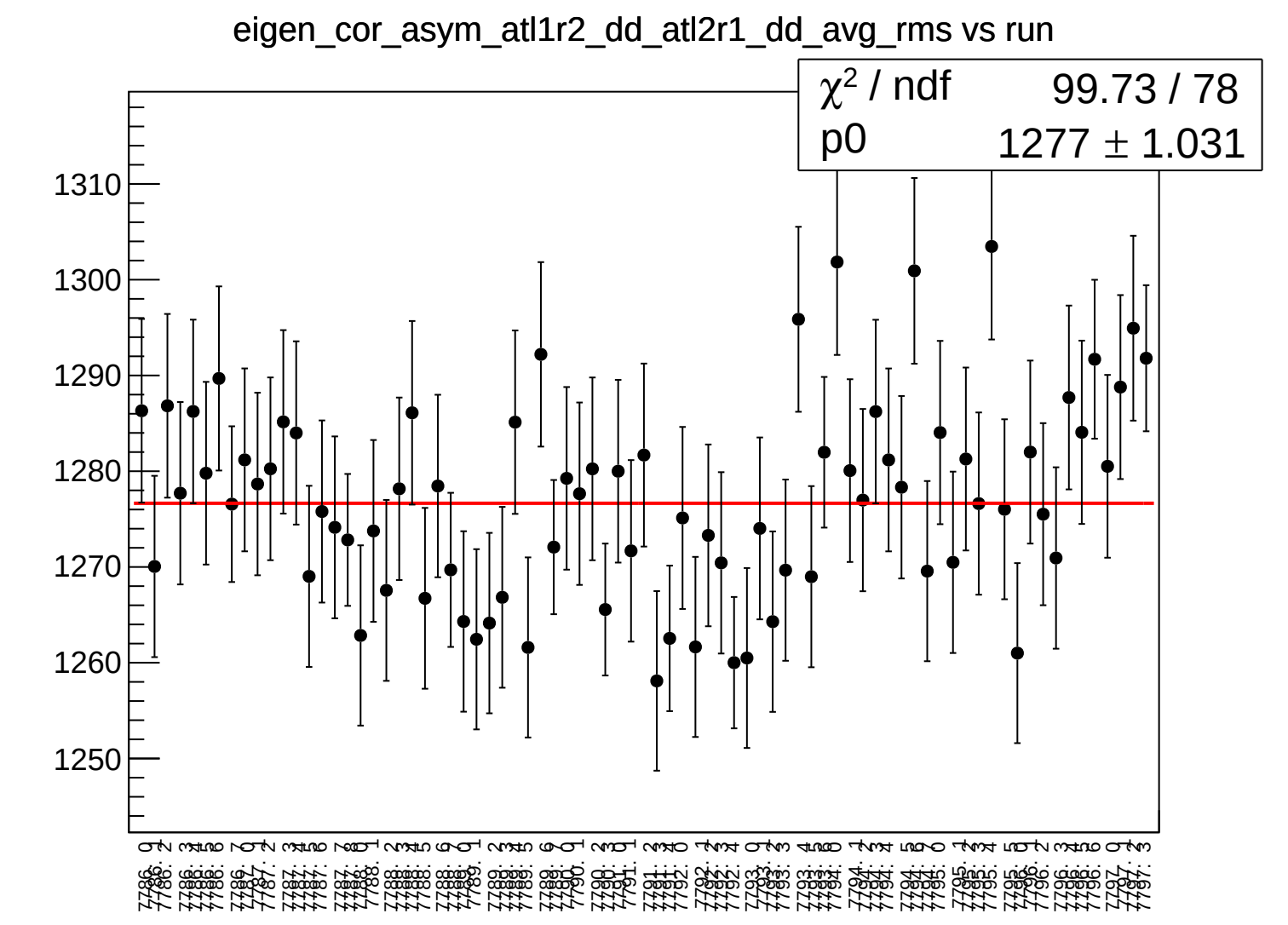

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 77.15 / 78
p0 −1004 ± 1402
pull
Entries 79
Mean −150.8
Std Dev 0

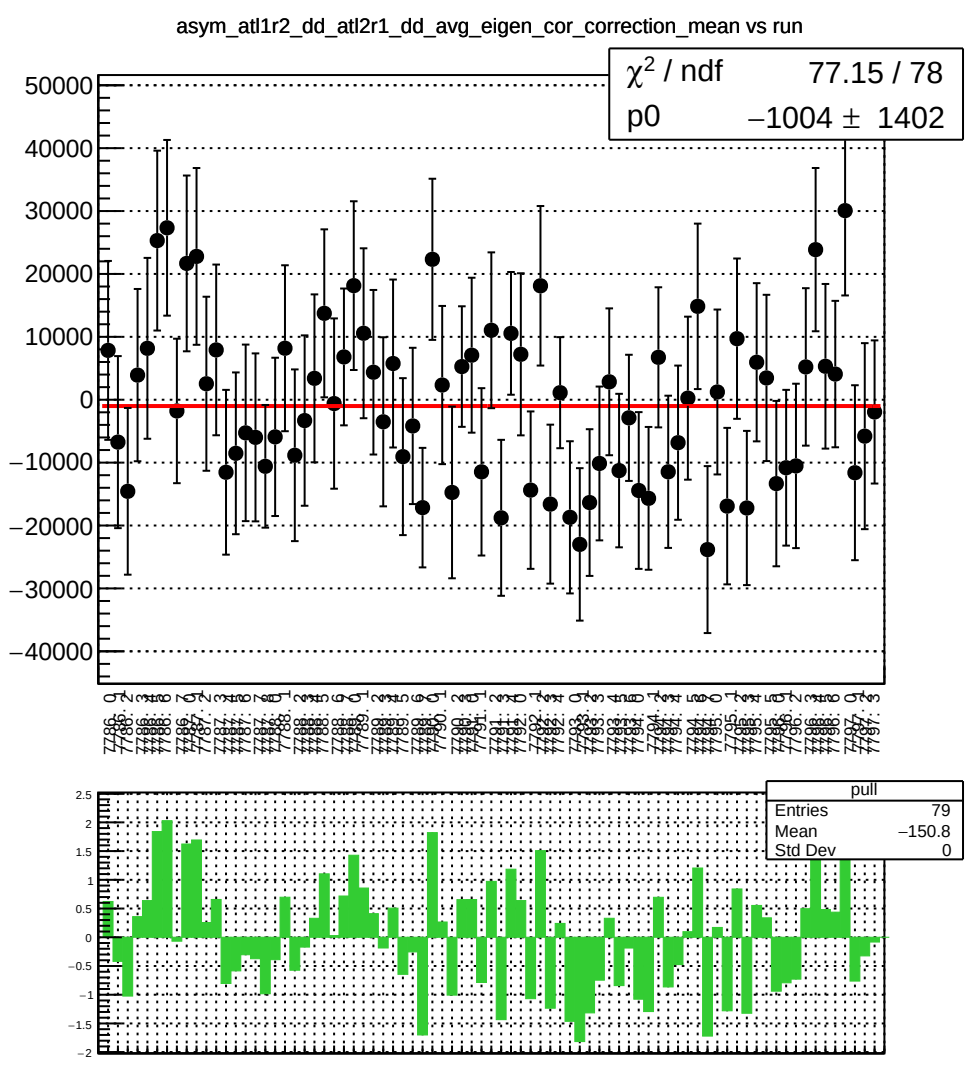

pull1D
Entries 79
Mean 0.01991
Std Dev 0.9881

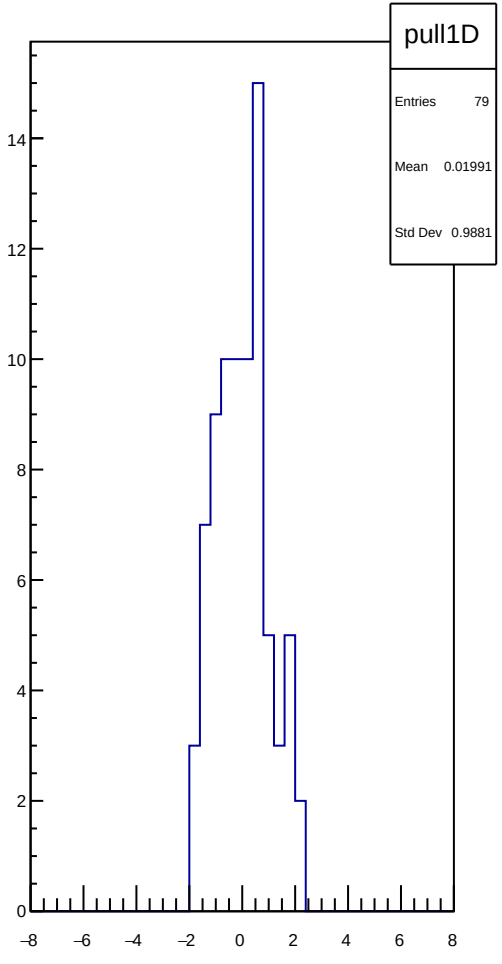

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 4875 / 78
p0 1226 ± 0.9917
1400
1350
1300
1250
1200
1150
1100
1050

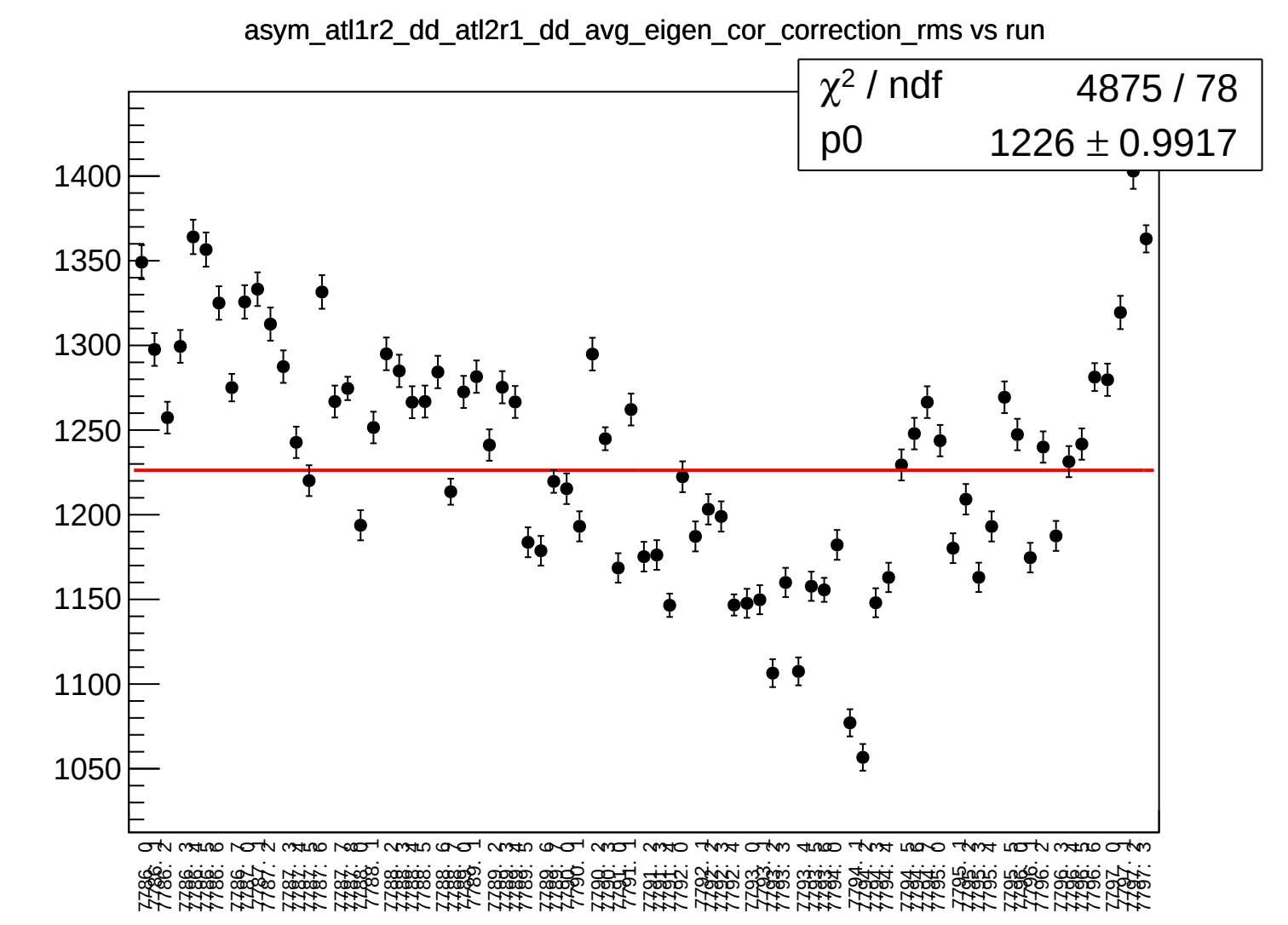

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 63.31 / 78
p0 1469 ± 1458
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 417
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

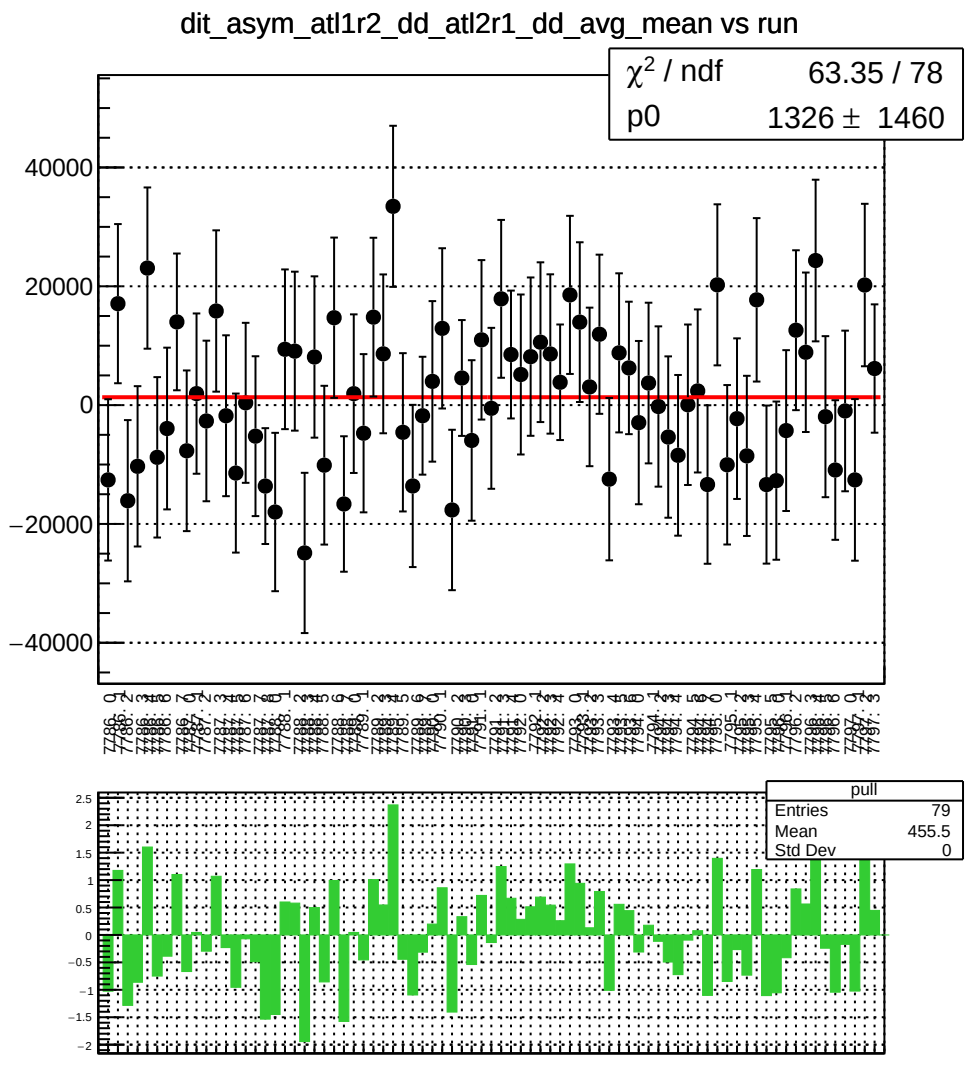

pull1D
Entries 79
Mean 0.004721
Std Dev 0.8952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

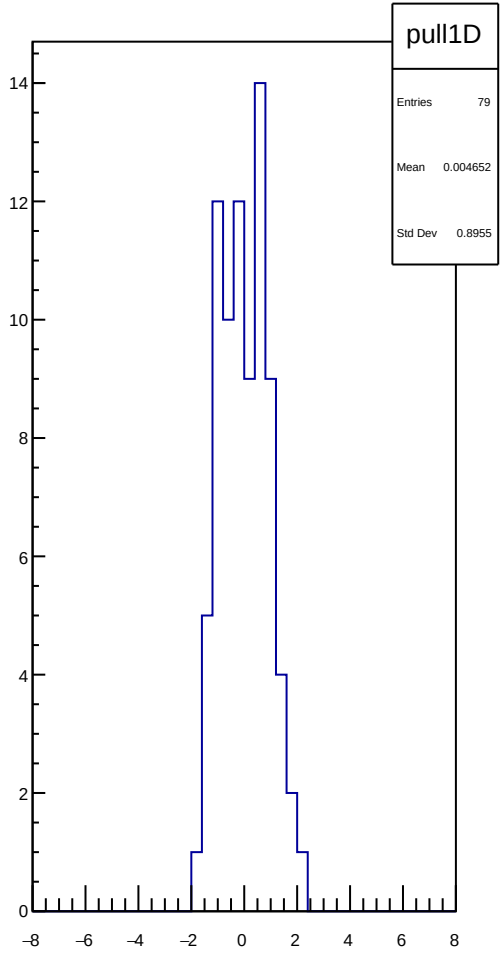

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 99.73 / 78
p0 1277 ± 1.031
1310
1300
1290
1280
1270
1260
1250

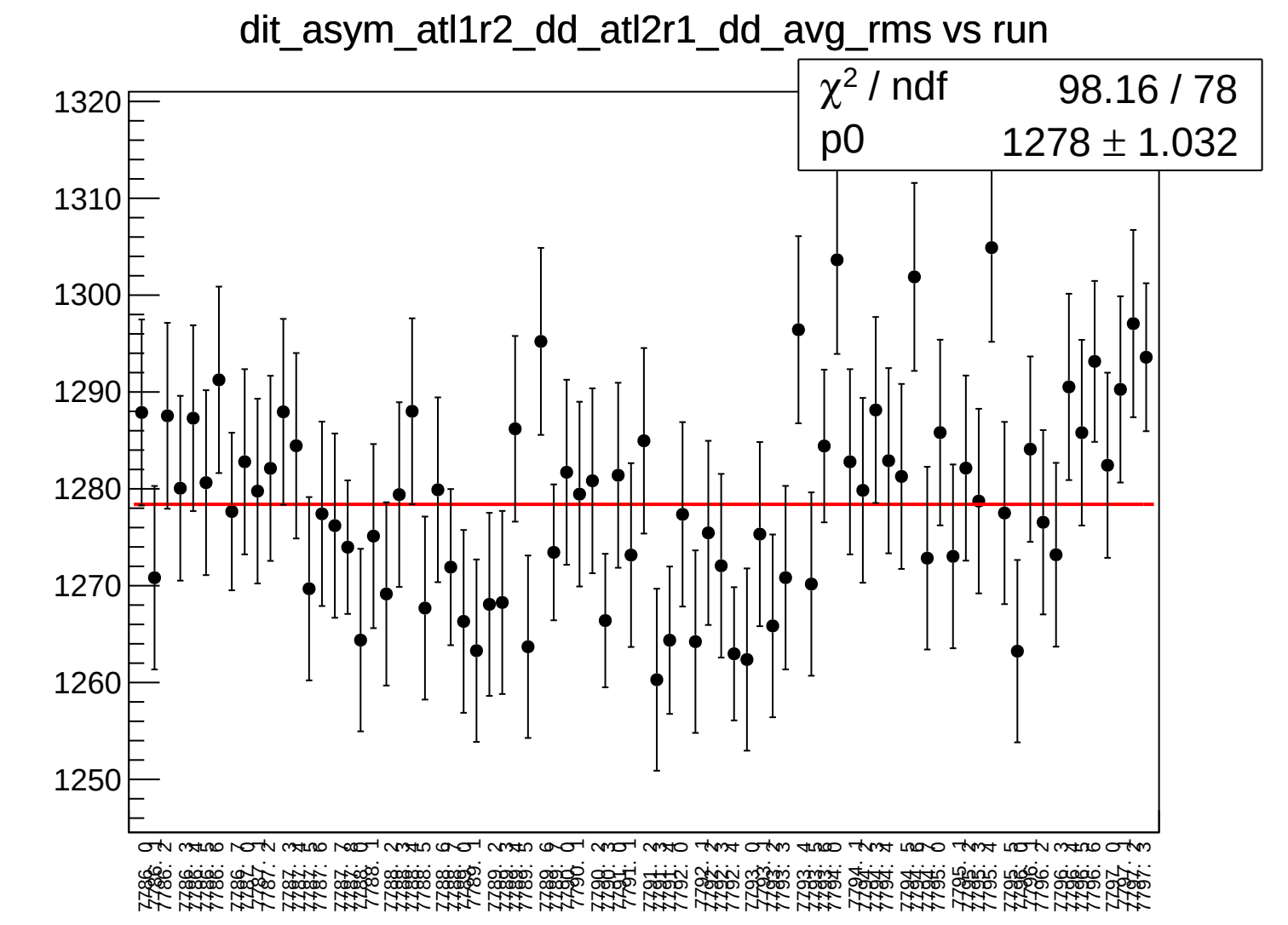

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.15 / 78
p0 −1004 ± 1402
pull
Entries 79
Mean −150.8
Std Dev 0

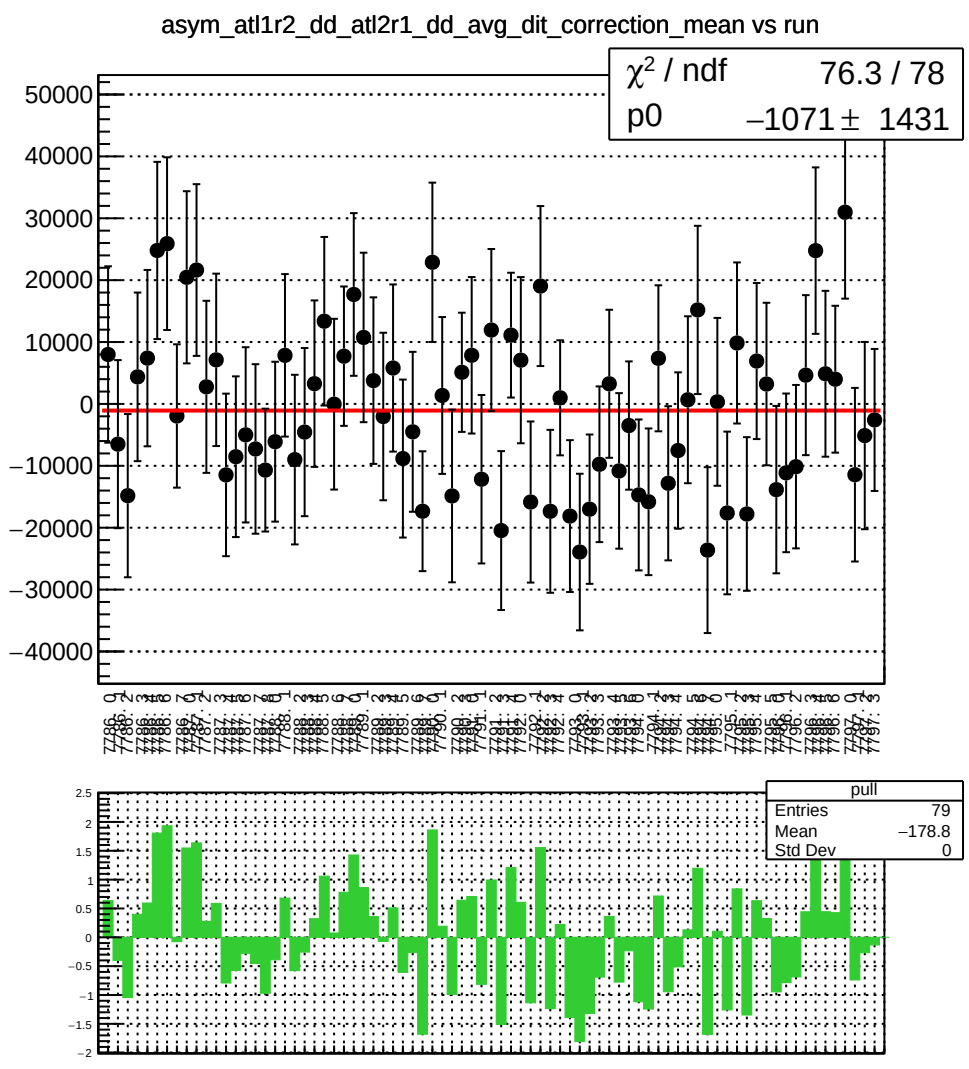

pull1D
Entries 79
Mean 0.01991
Std Dev 0.9881

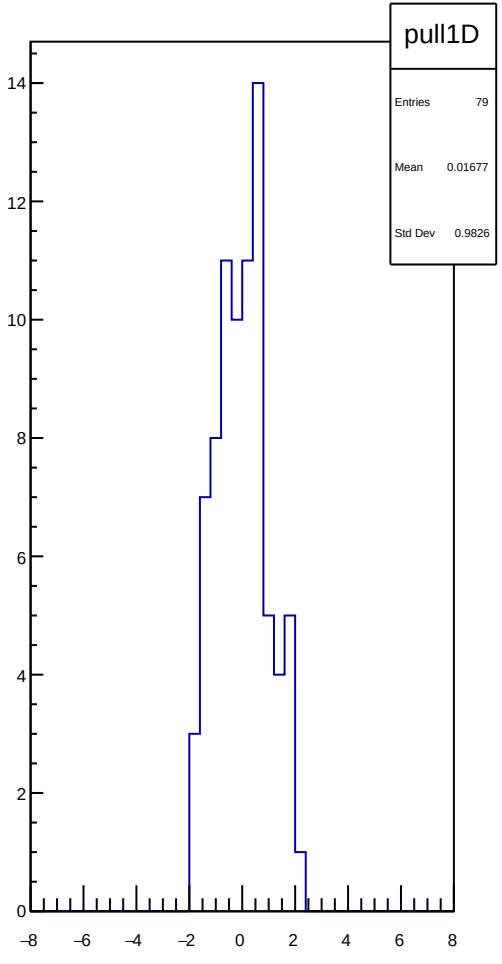

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4875 / 78
p0 1226 ± 0.9917
1400
1350
1300
1250
1200
1150
1100
1050

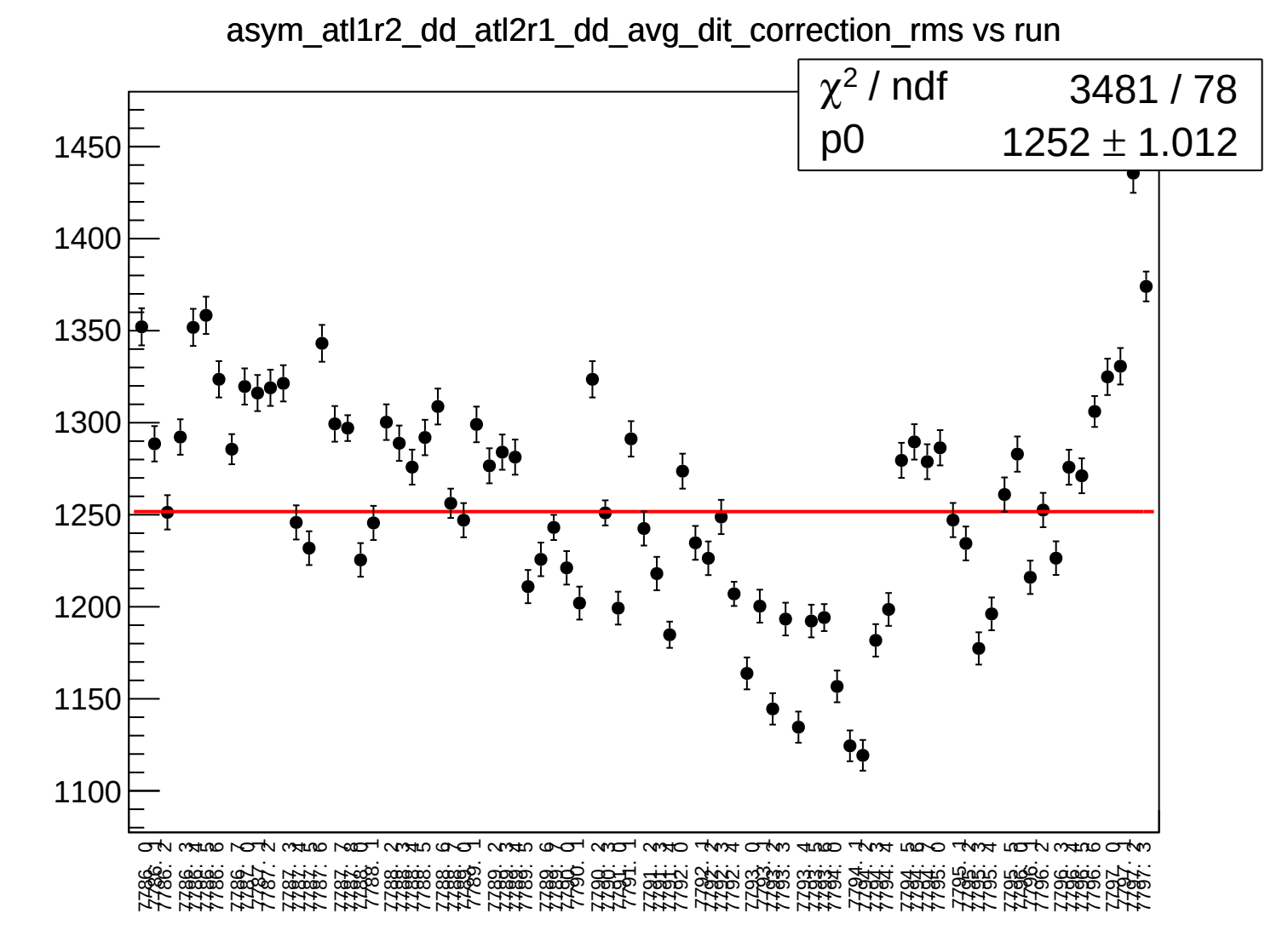

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 63.35 / 78
p0 1326 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 455.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

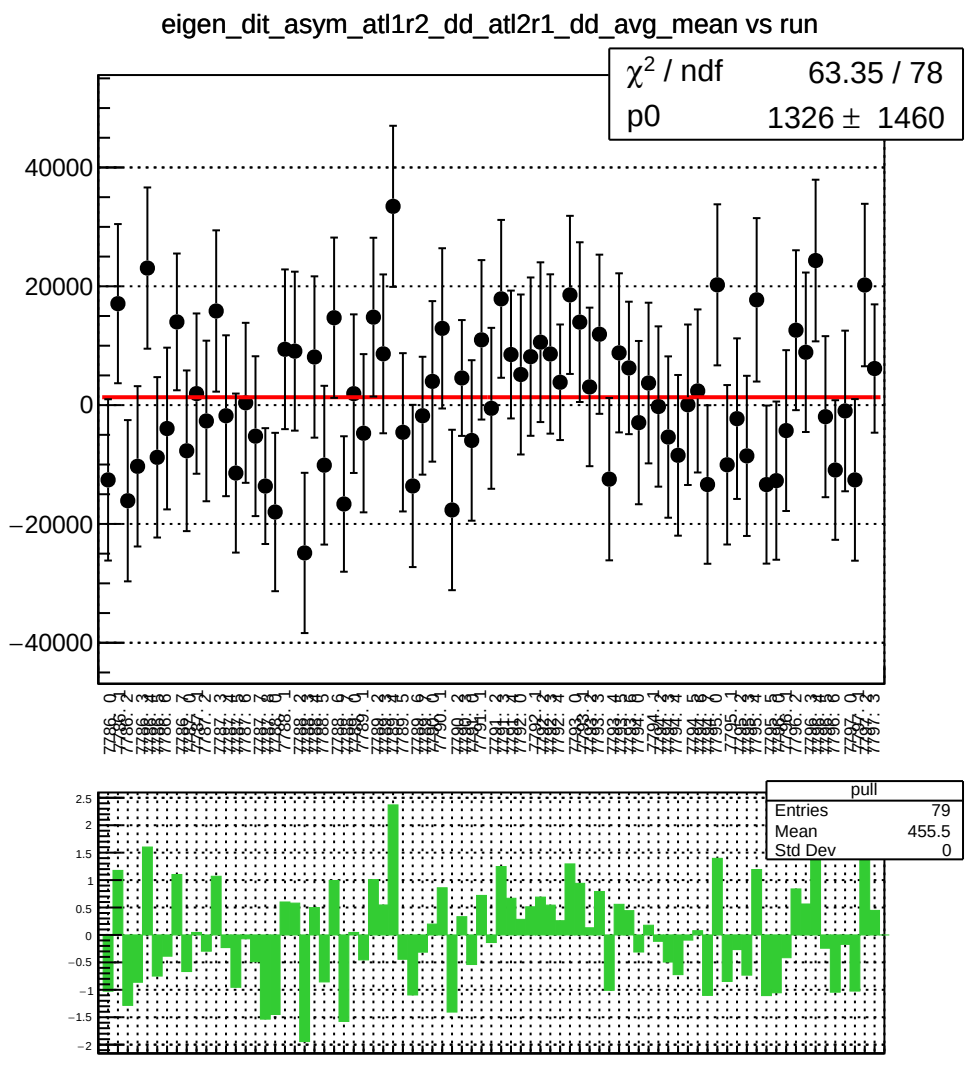

pull1D
Entries 79
Mean 0.004652
Std Dev 0.8955
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

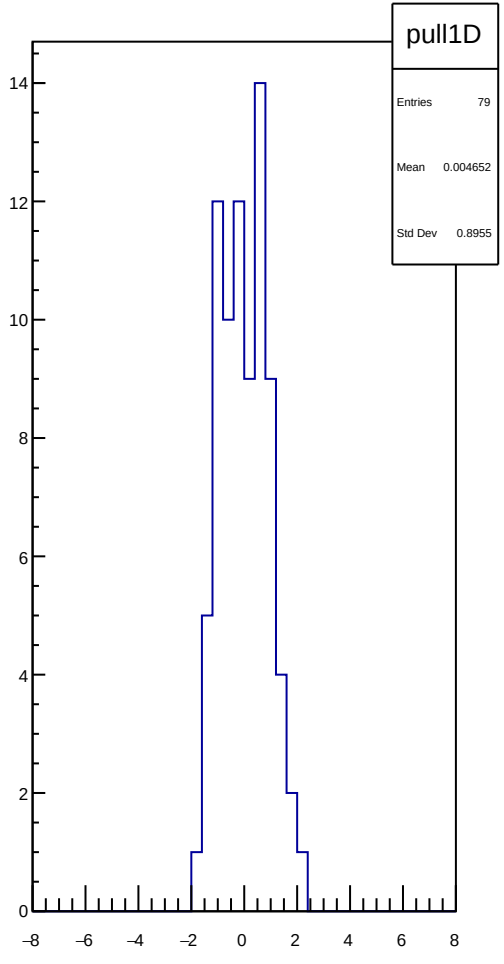

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 98.16 / 78
p0 1278 ± 1.032
1320
1310
1300
1290
1280
1270
1260
1250

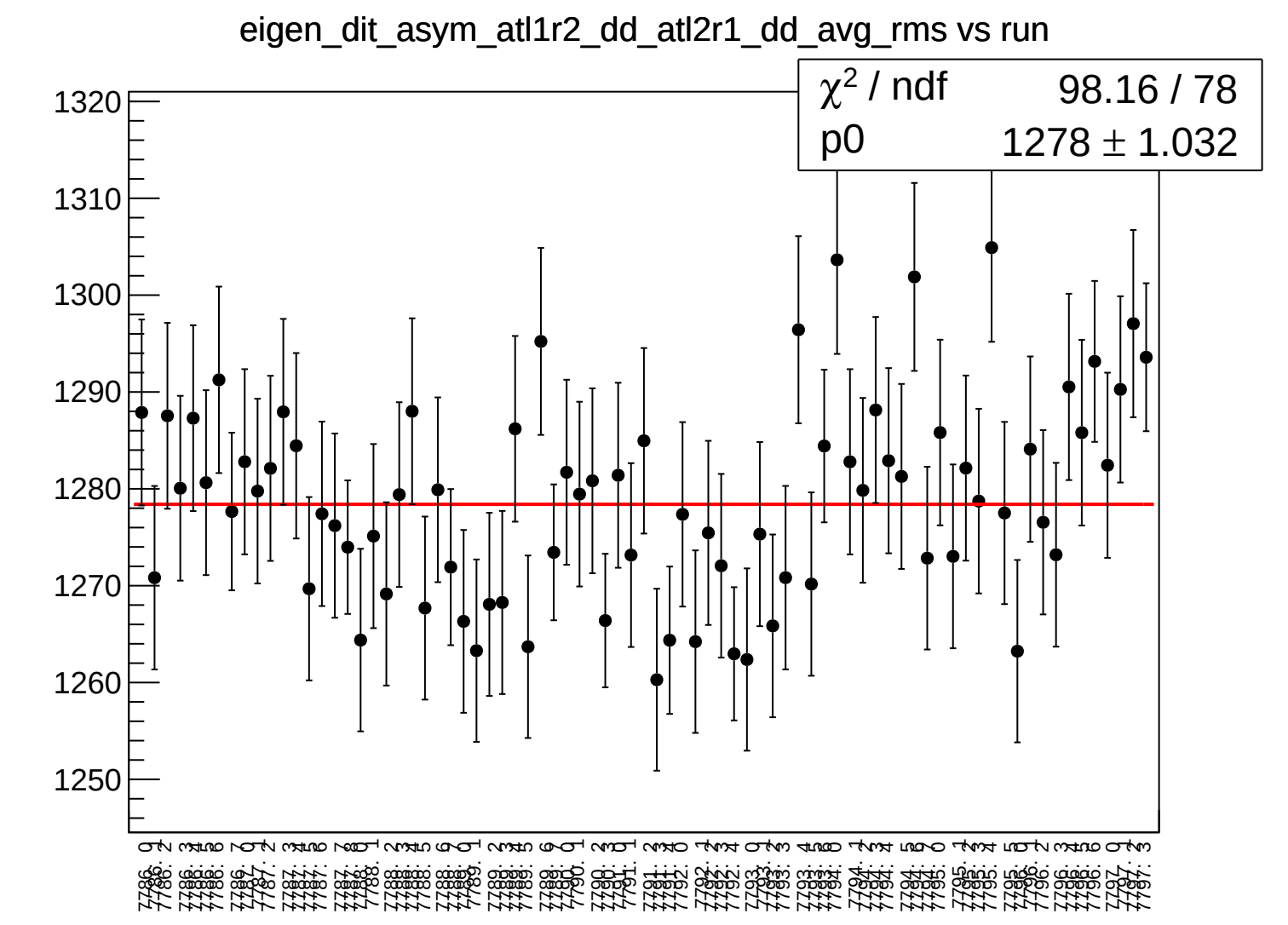

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 76.3 / 78
p0 −1071 ± 1431
pull
Entries 79
Mean −178.8
Std Dev 0

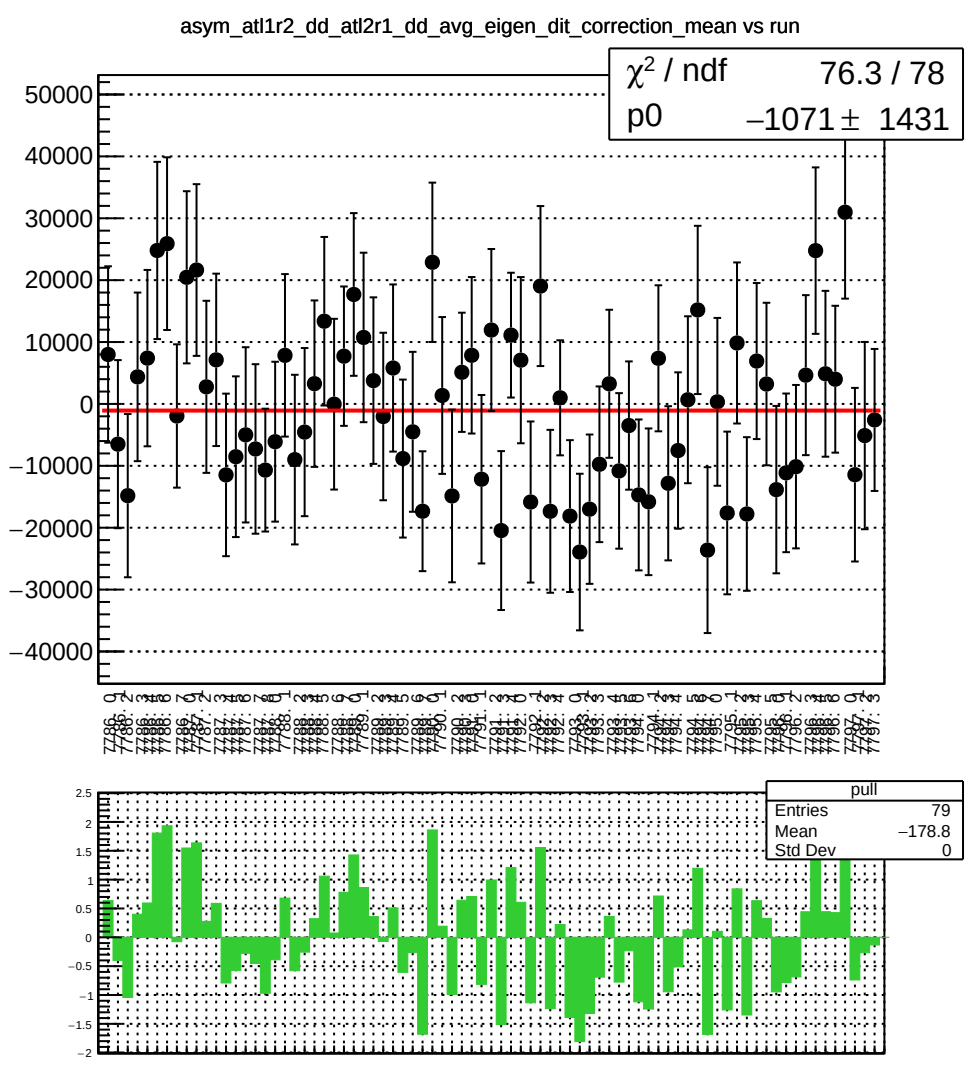

pull1D
Entries 79
Mean 0.01677
Std Dev 0.9826

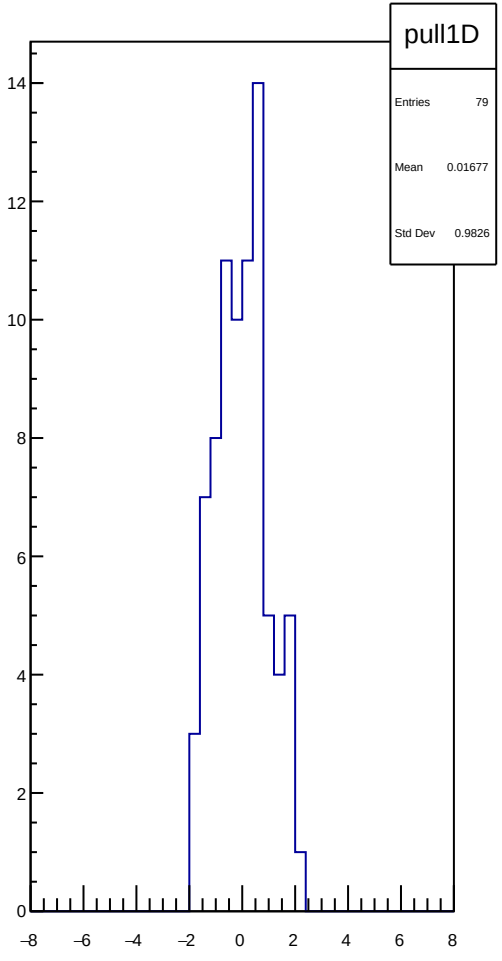

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 3481 / 78
p0 1252 ± 1.012
1450
1400
1350
1300
1250
1200
1150
1100

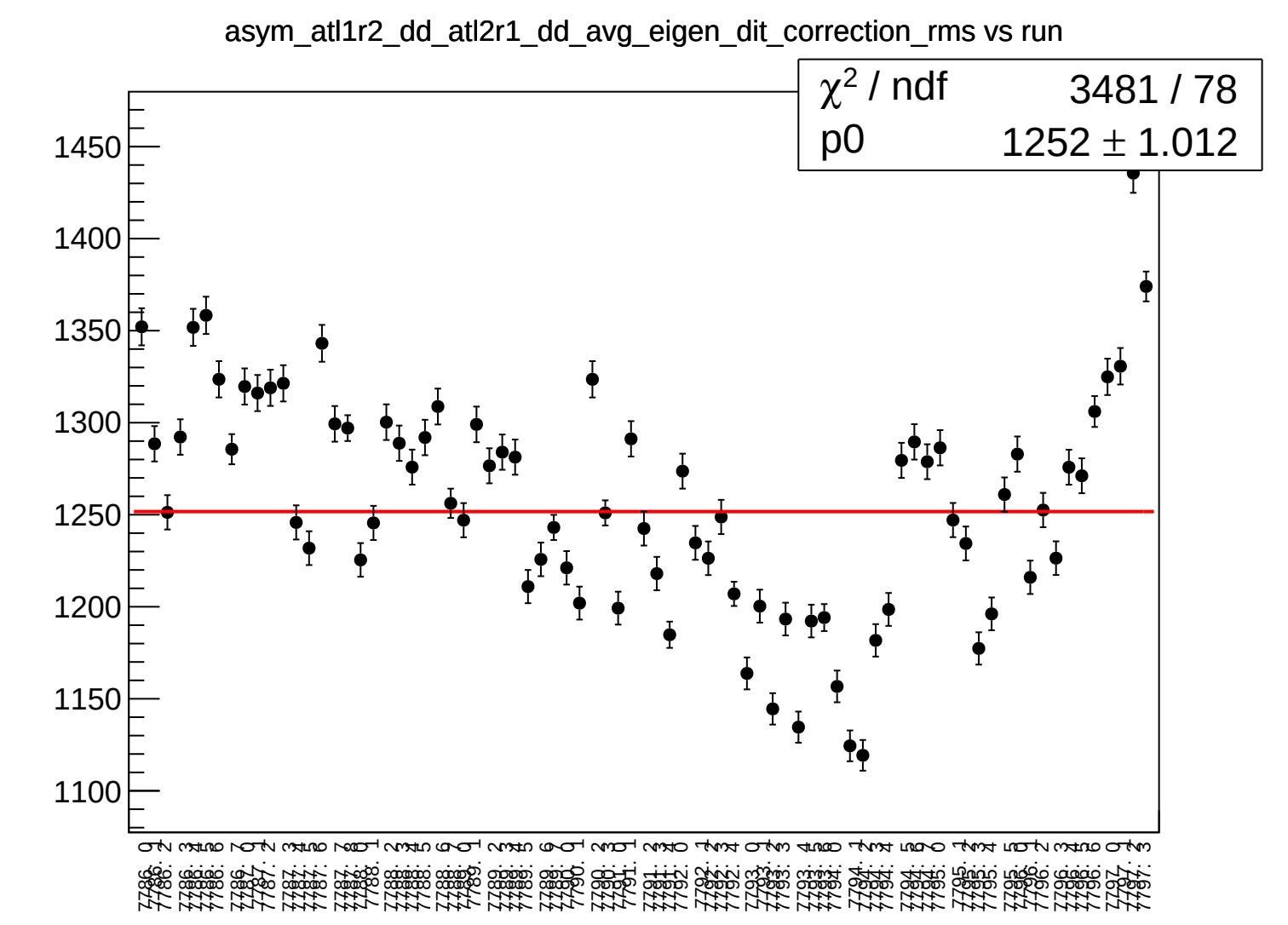

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 63.35 / 78
p0 1326 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 455.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

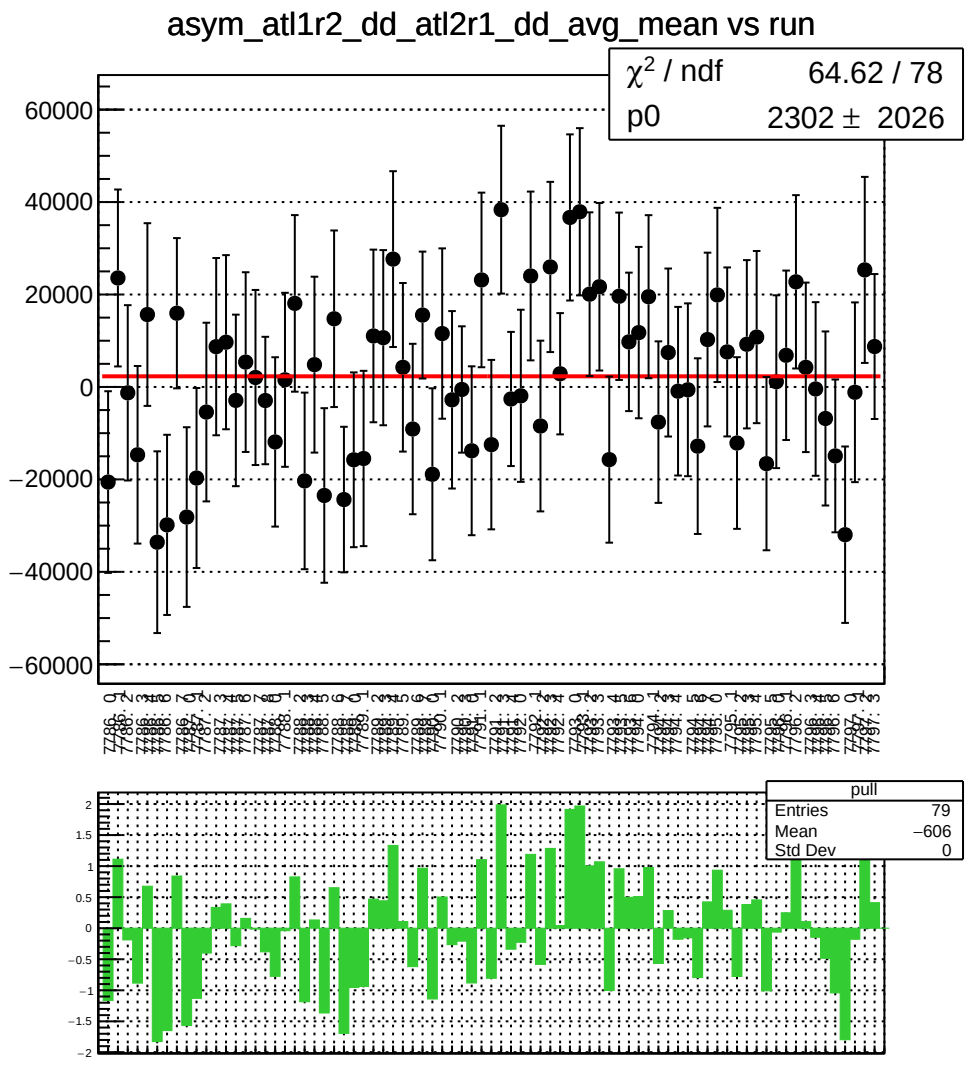

pull1D
Entries 79
Mean 0.004652
Std Dev 0.8955
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

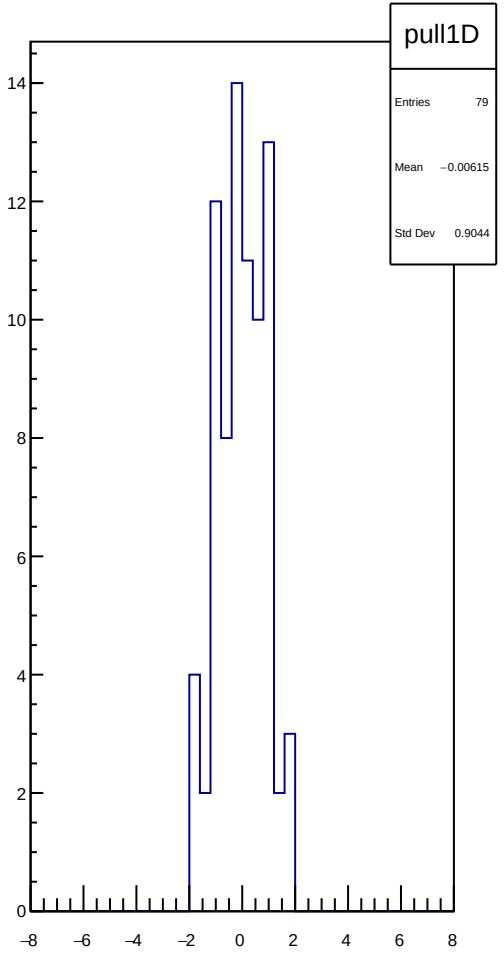

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 98.16 / 78
p0 1278 ± 1.032
1320
1310
1300
1290
1280
1270
1260
1250

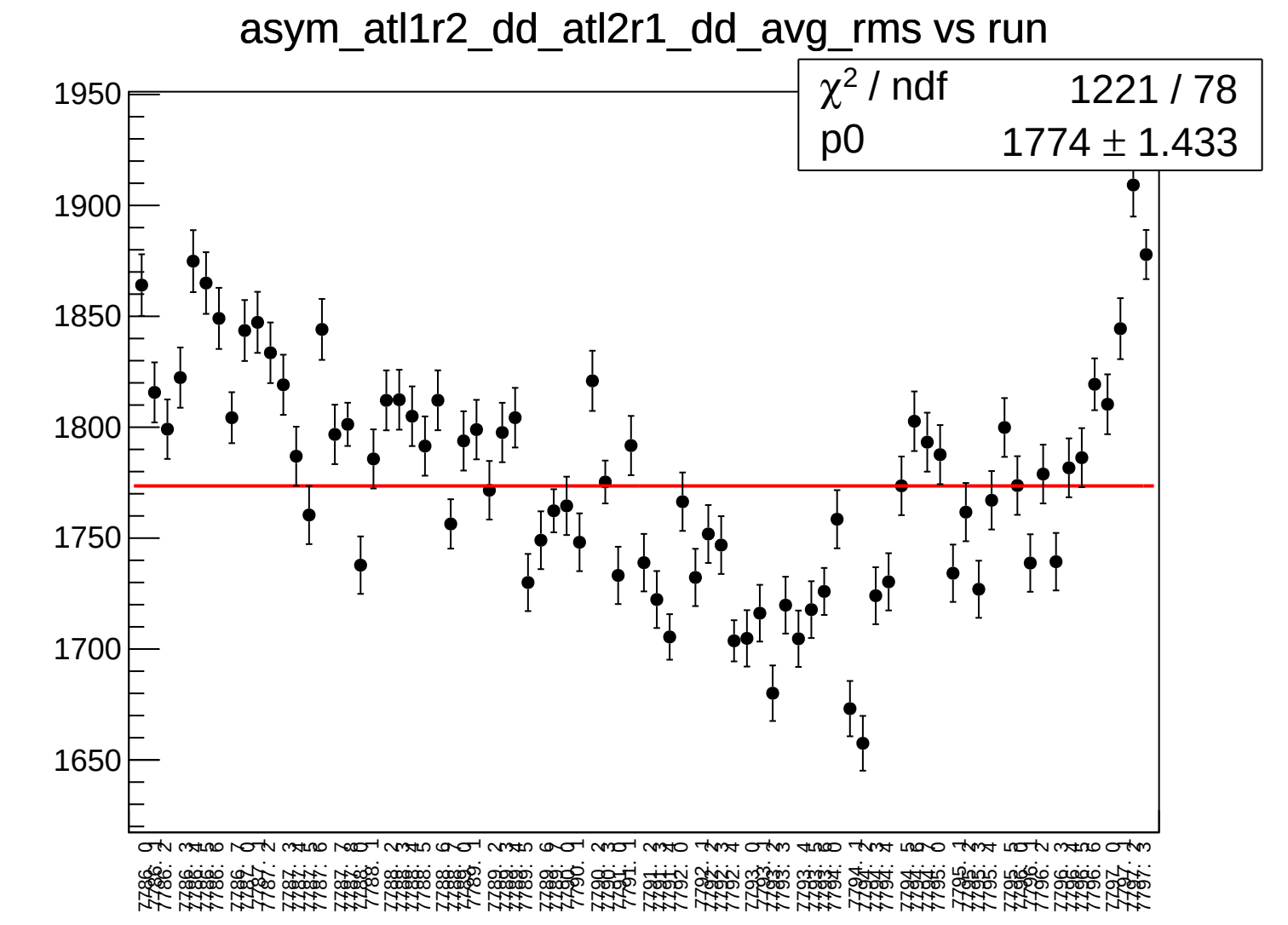

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.3 / 78
p0 −1071 ± 1431
pull
Entries 79
Mean −178.8
Std Dev 0

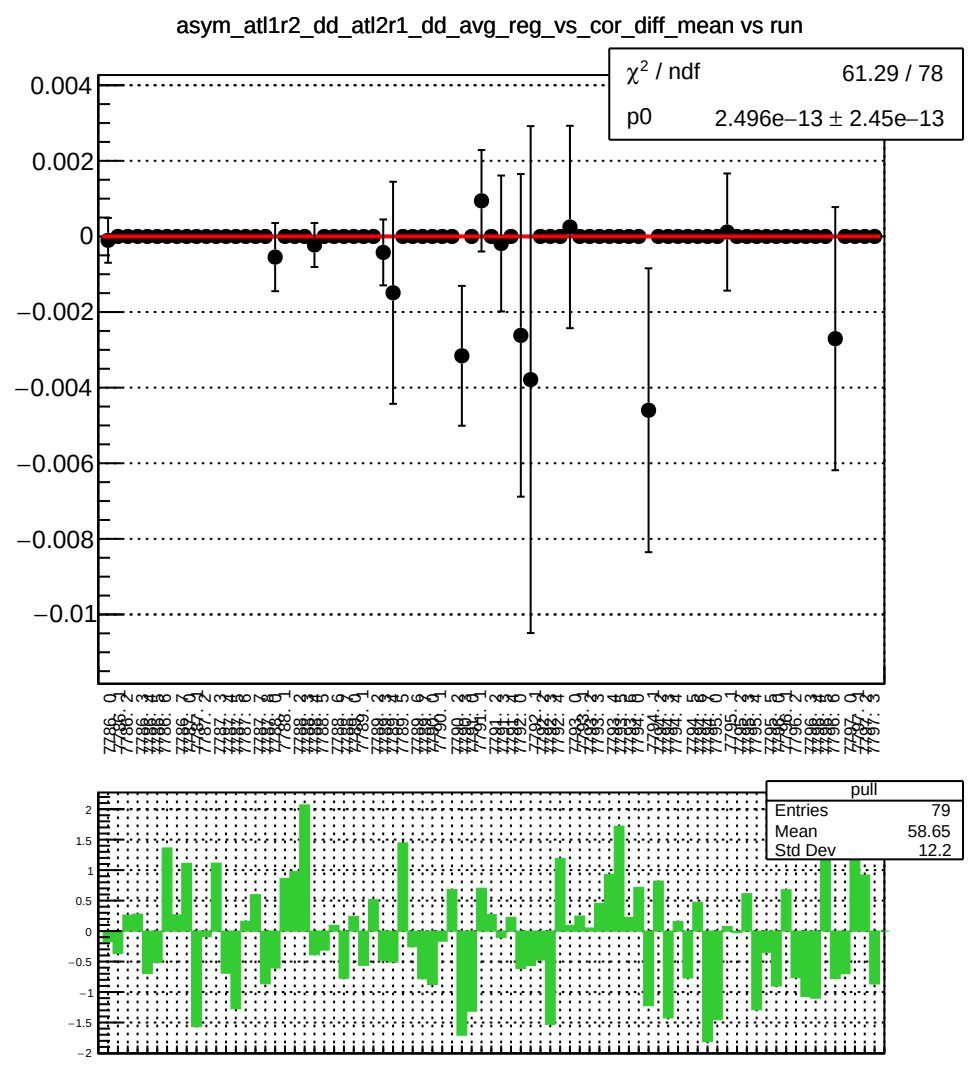

pull1D
Entries 79
Mean 0.01677
Std Dev 0.9826

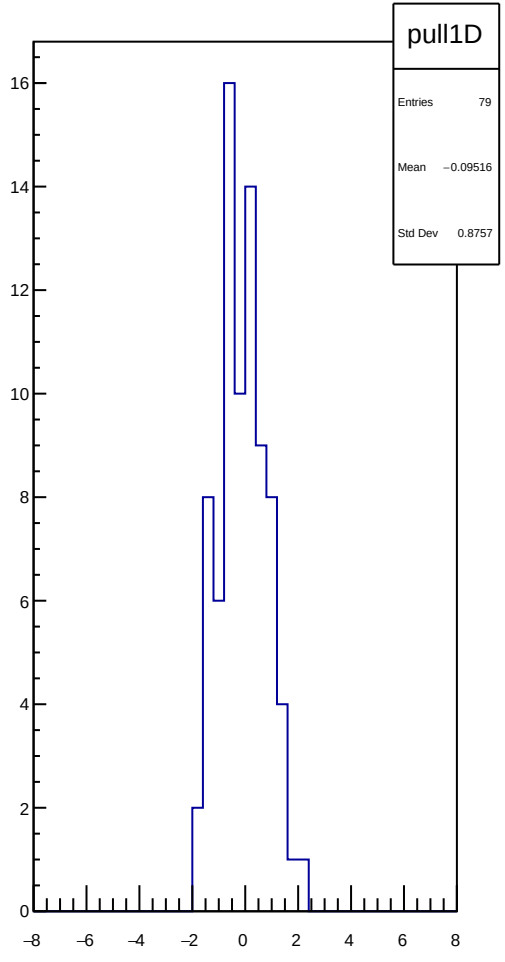

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3481 / 78
p0 1252 ± 1.012
1450
1400
1350
1300
1250
1200
1150
1100

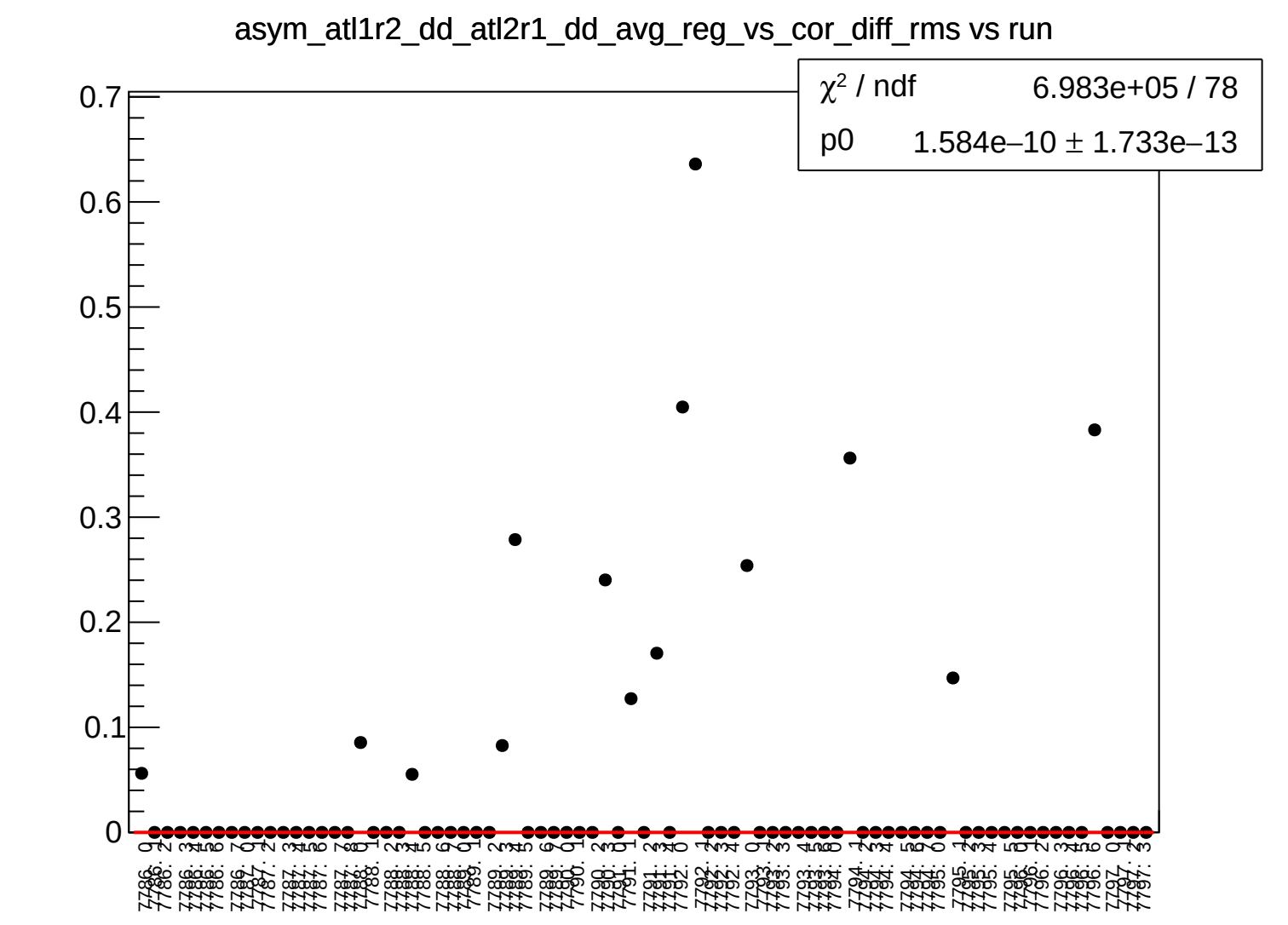

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 64.62 / 78
p0 2302 ± 2026
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −606
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

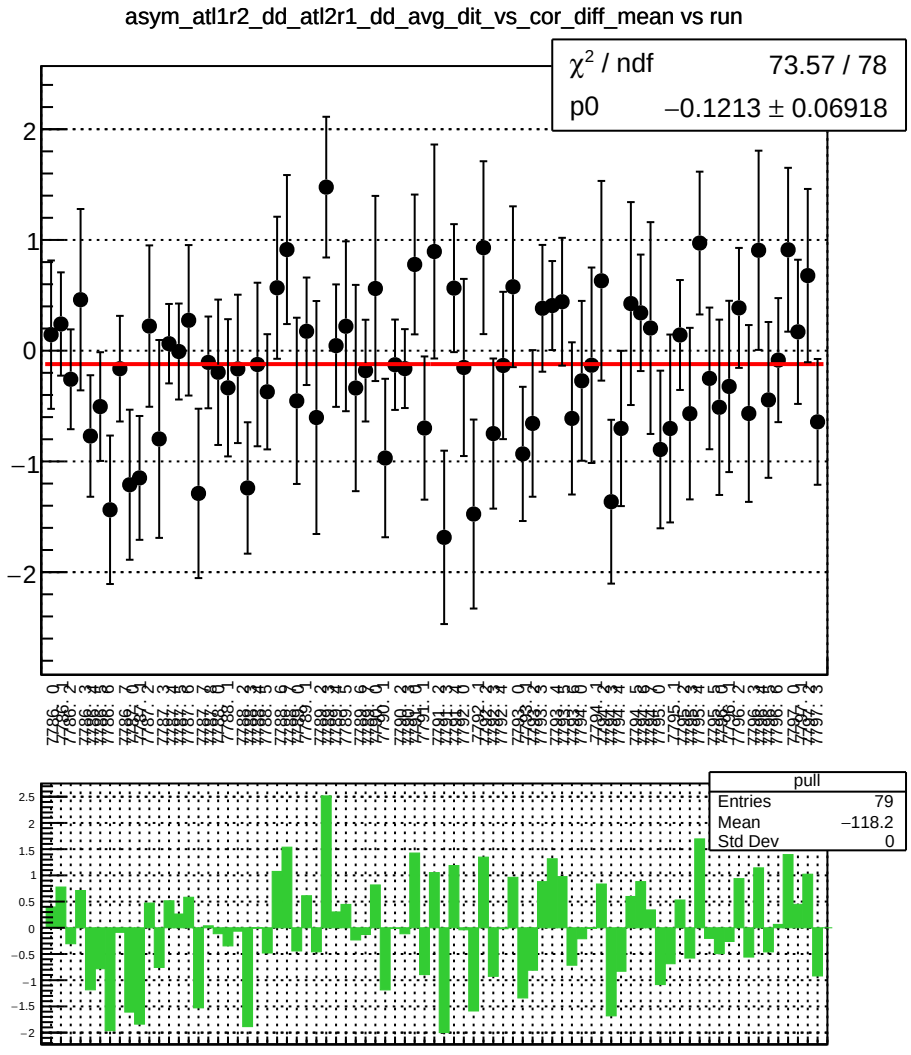

pull1D
Entries 79
Mean −0.00615
Std Dev 0.9044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

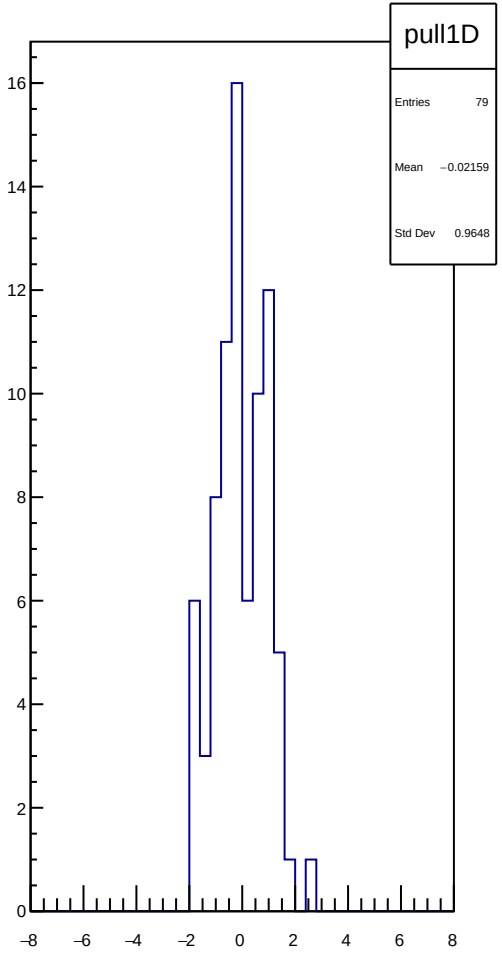

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1221 / 78
p0 1774 ± 1.433
1950
1900
1850
1800
1750
1700
1650

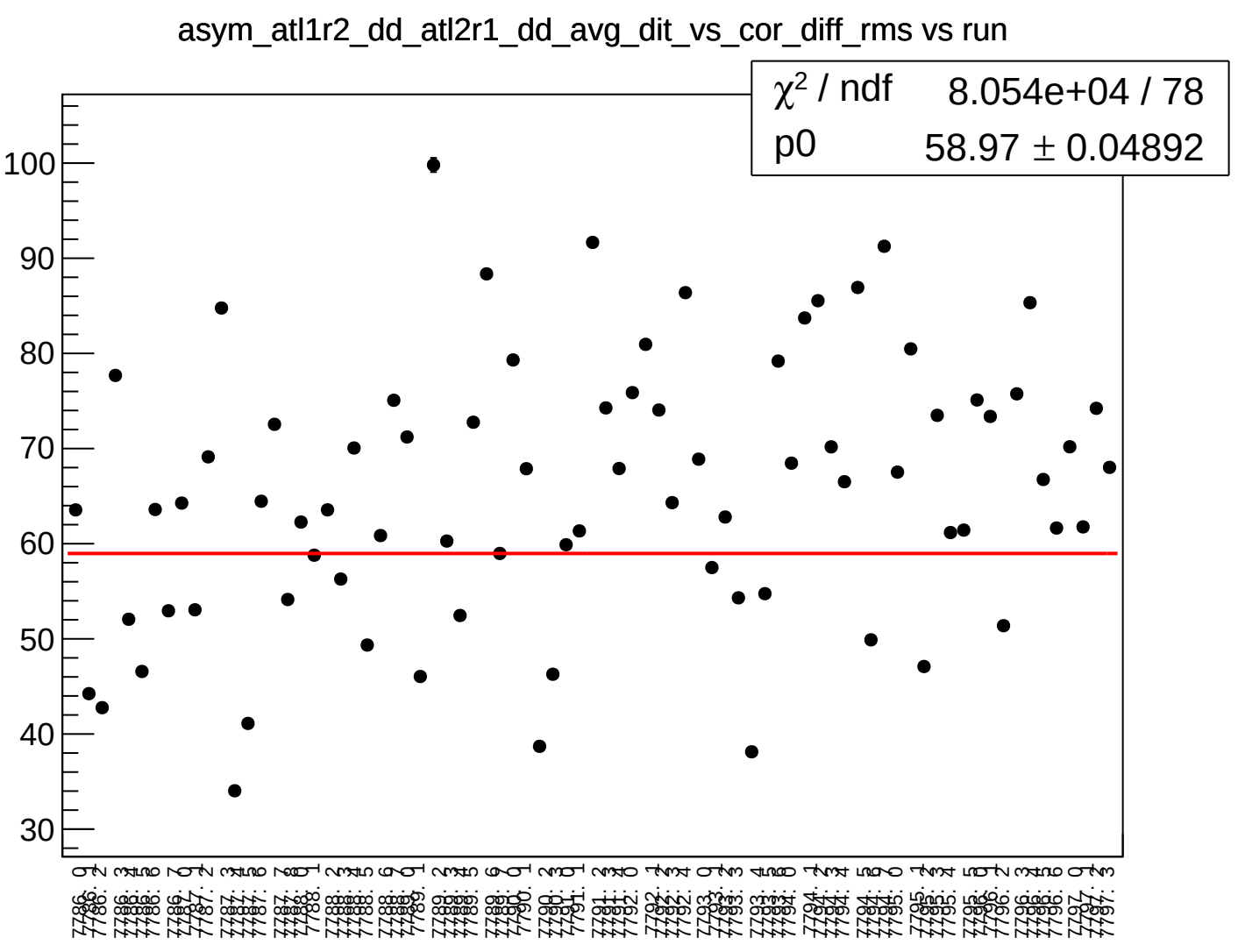

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 61.29 / 78
p0 2.496e−13 ± 2.45e−13
pull
Entries 79
Mean 58.65
Std Dev 12.2

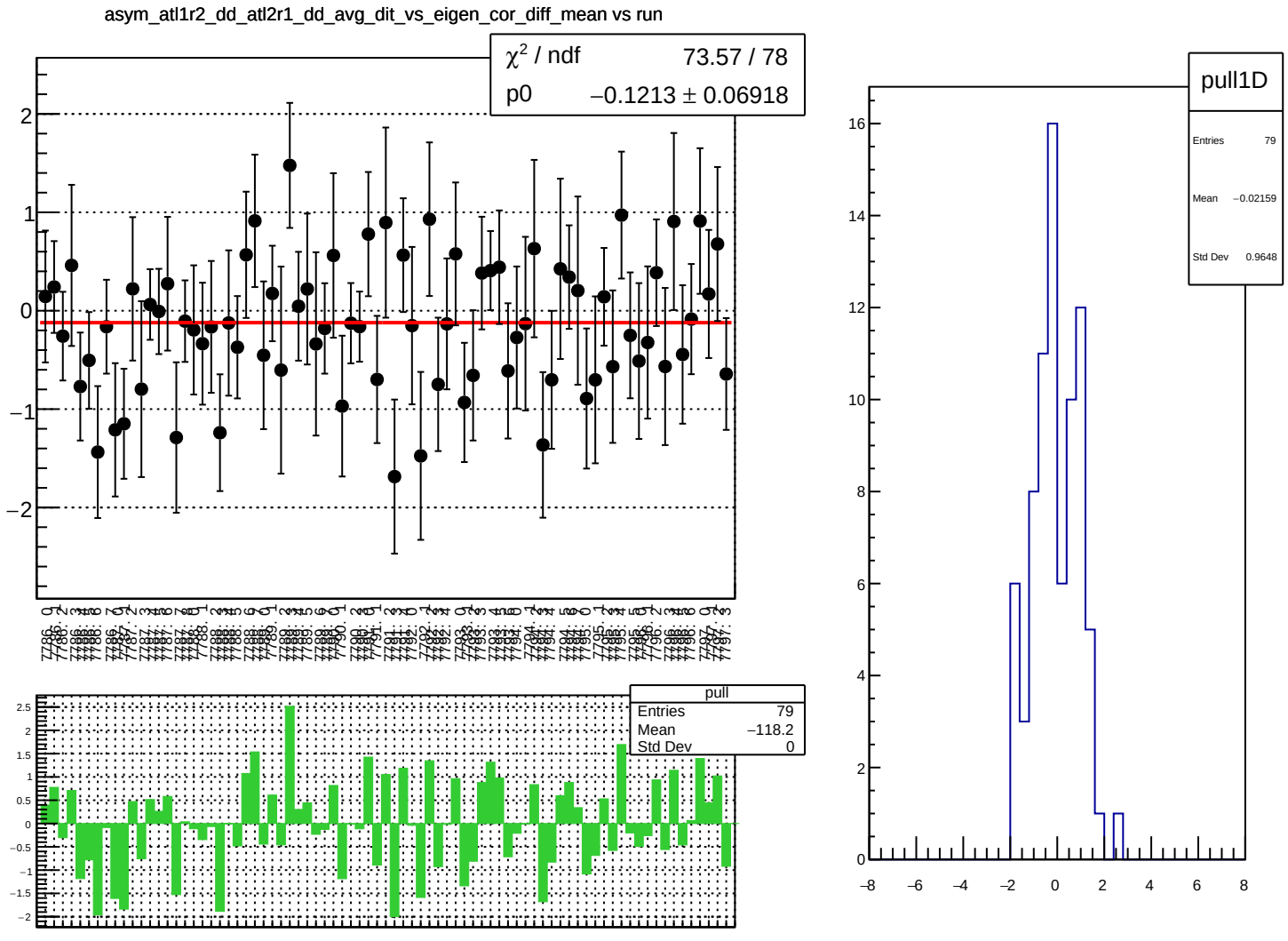

pull1D
Entries 79
Mean −0.09516
Std Dev 0.8757

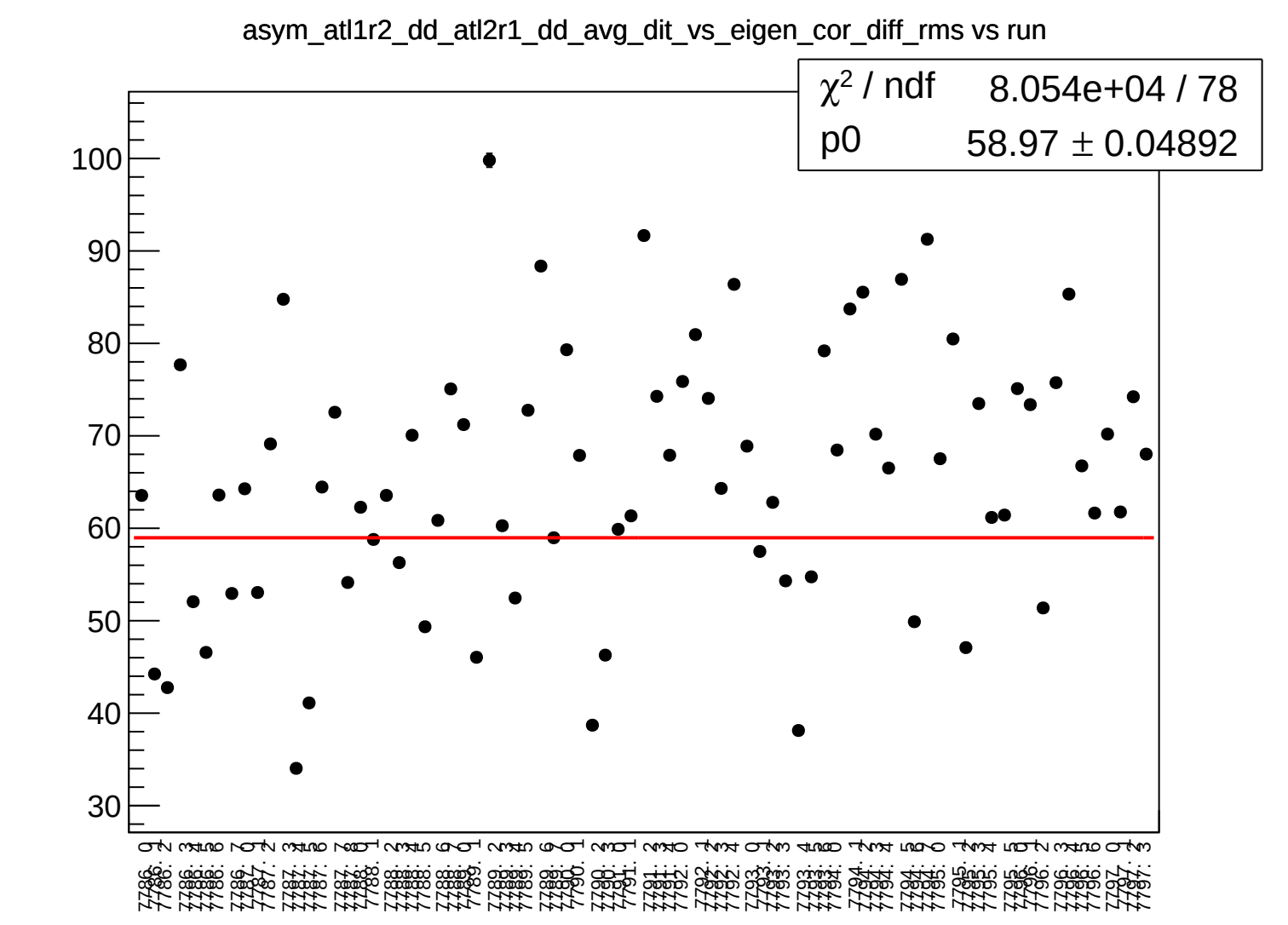

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.983e+05 / 78
p0 1.584e−10 ± 1.733e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

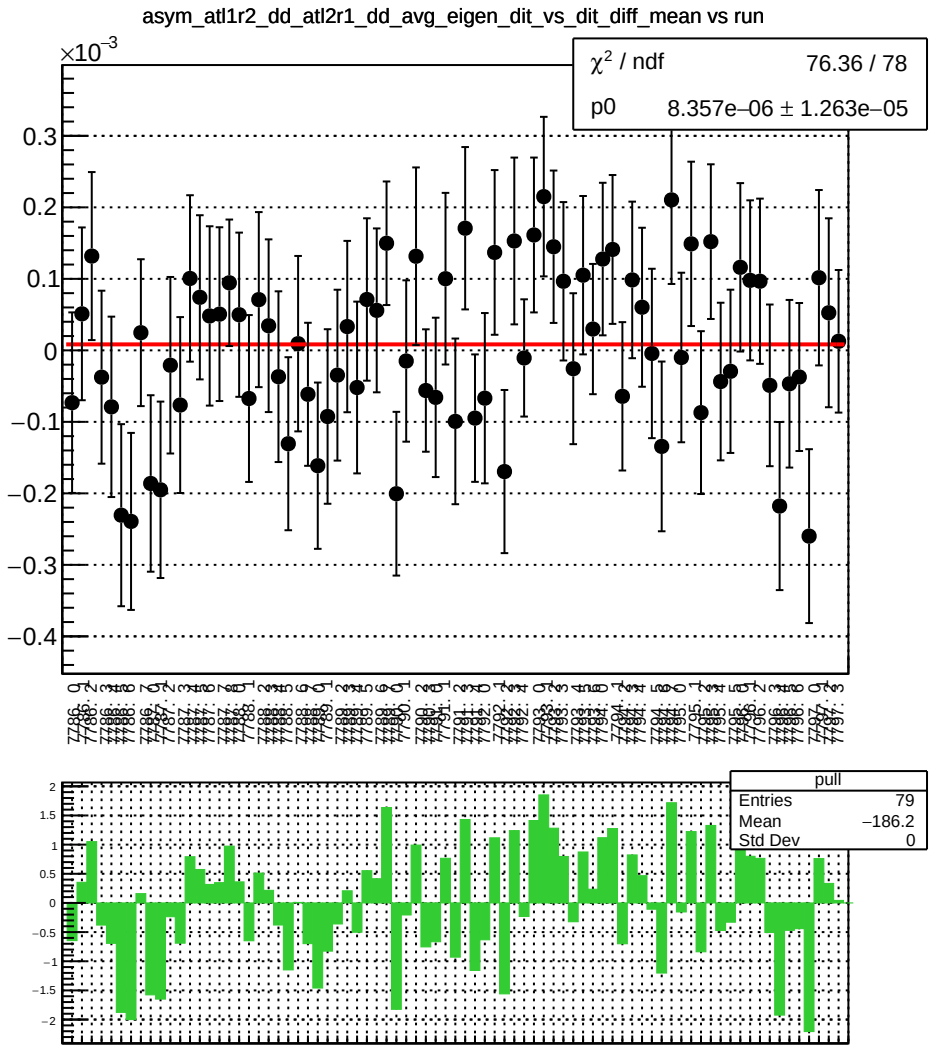

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.57 / 78
p0 −0.1213 ± 0.06918
pull
Entries 79
Mean −118.2
Std Dev 0

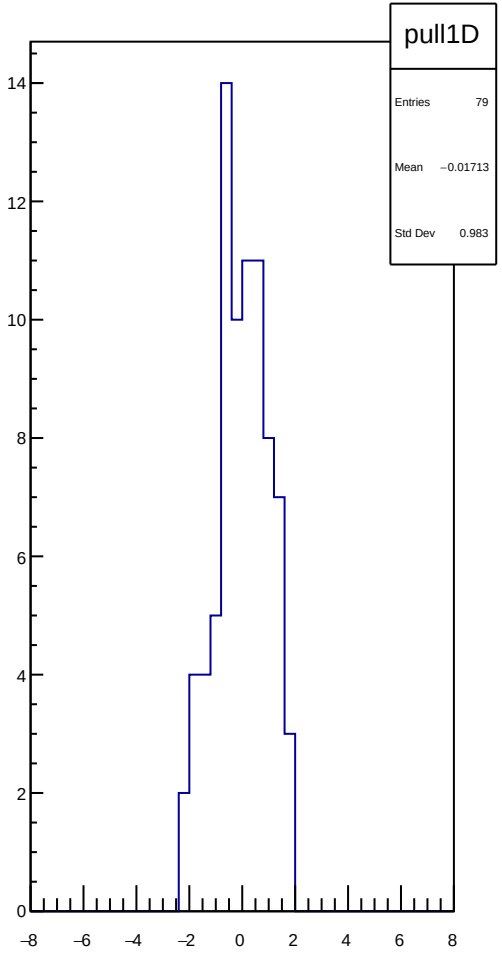

pull1D
Entries 79
Mean −0.02159
Std Dev 0.9648

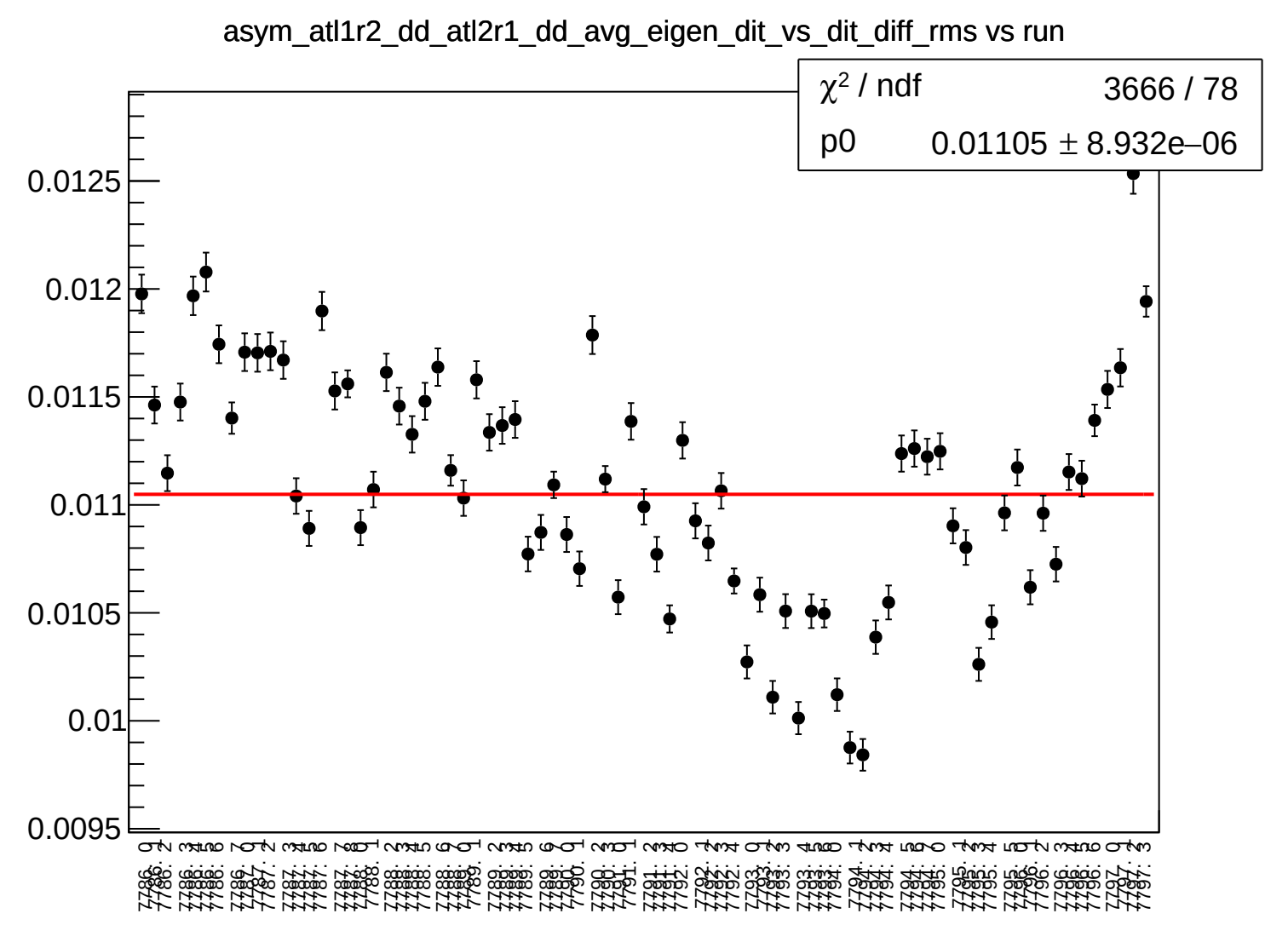

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.054e+04 / 78
p0 58.97 ± 0.04892
100
90
80
70
60
50
40
30

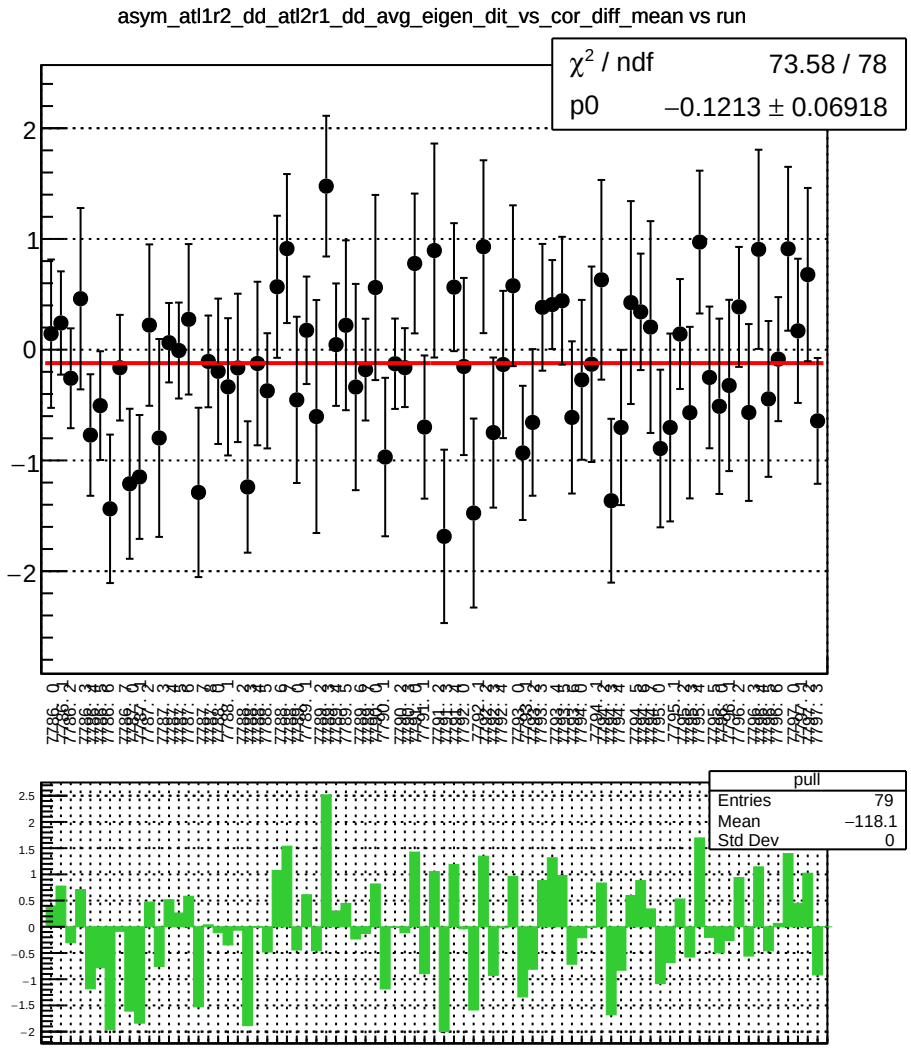

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.57 / 78
p0 −0.1213 ± 0.06918
pull
Entries 79
Mean −118.2
Std Dev 0
pull1D
Entries 79
Mean −0.02159
Std Dev 0.9648

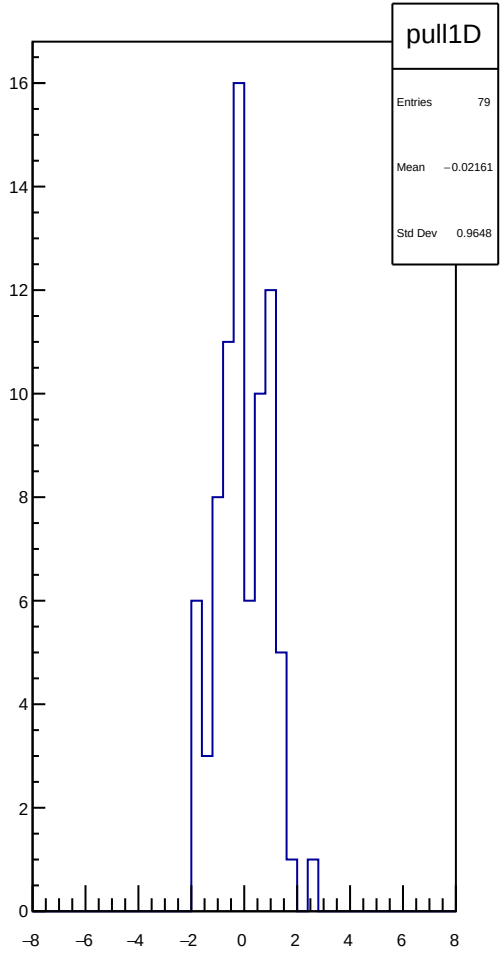

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.054e+04 / 78
p0 58.97 ± 0.04892
100
90
80
70
60
50
40
30

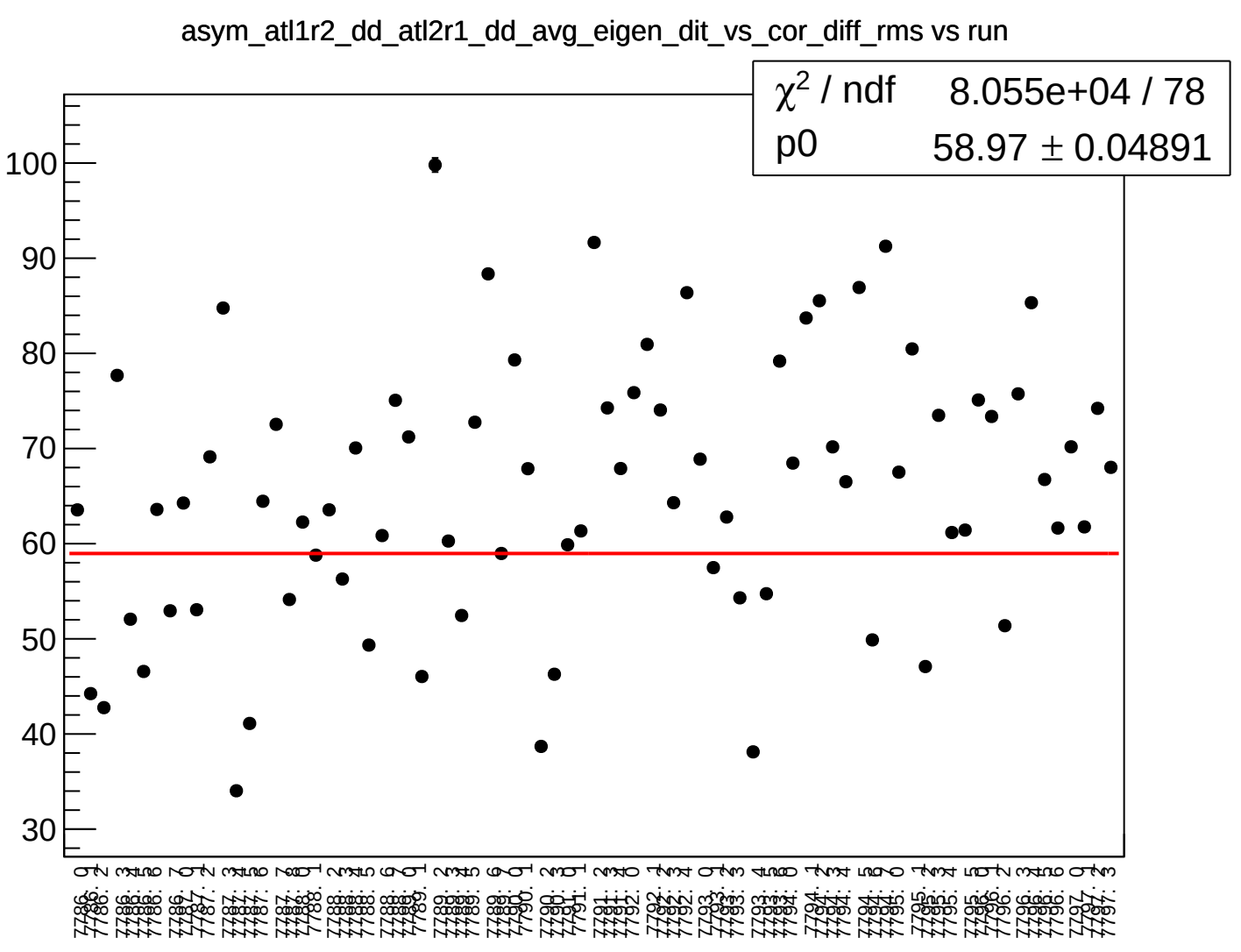

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.36 / 78
p0 8.357e−06 ± 1.263e−05
pull
Entries 79
Mean −186.2
Std Dev 0

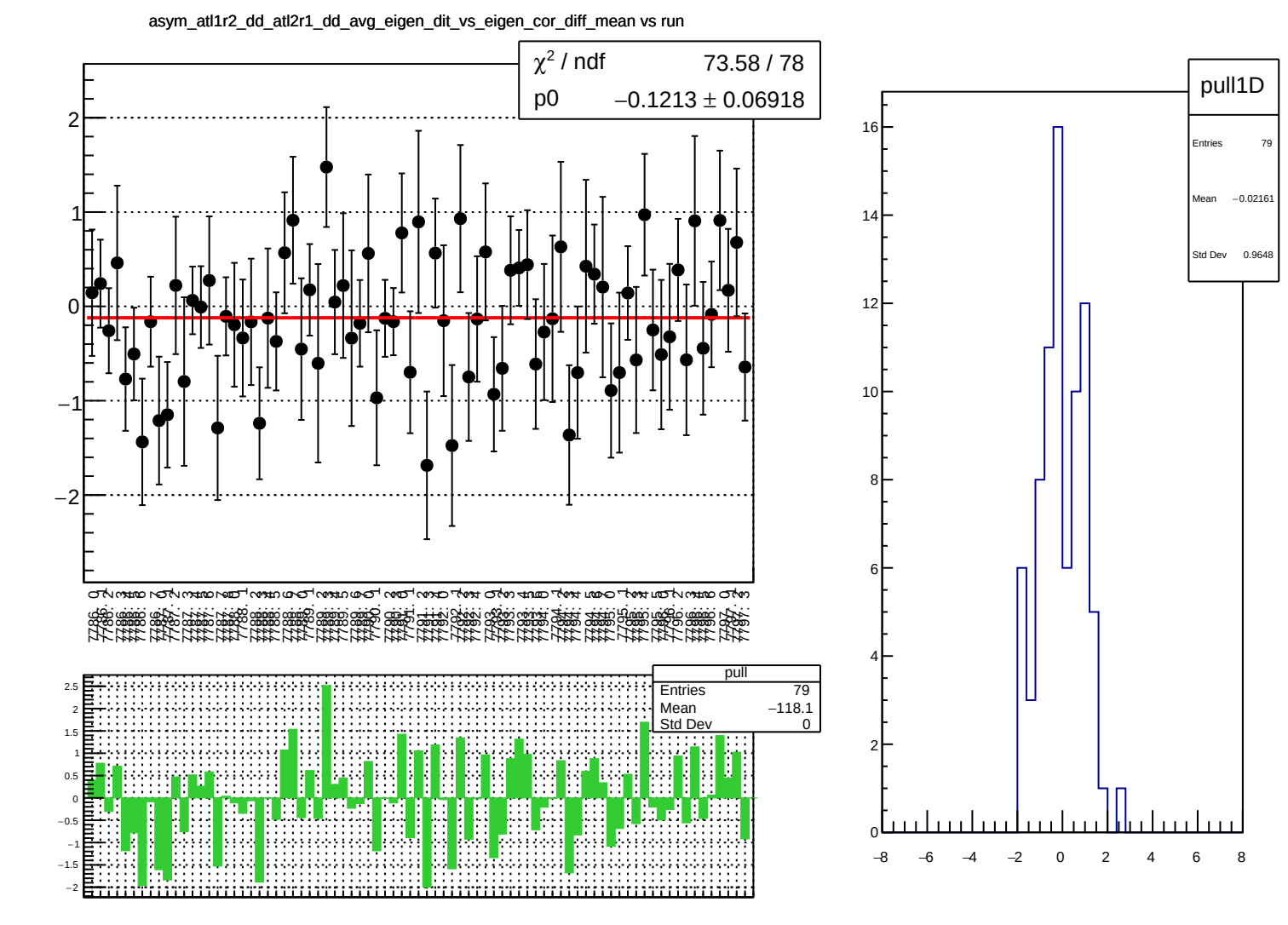

pull1D
Entries 79
Mean −0.01713
Std Dev 0.983

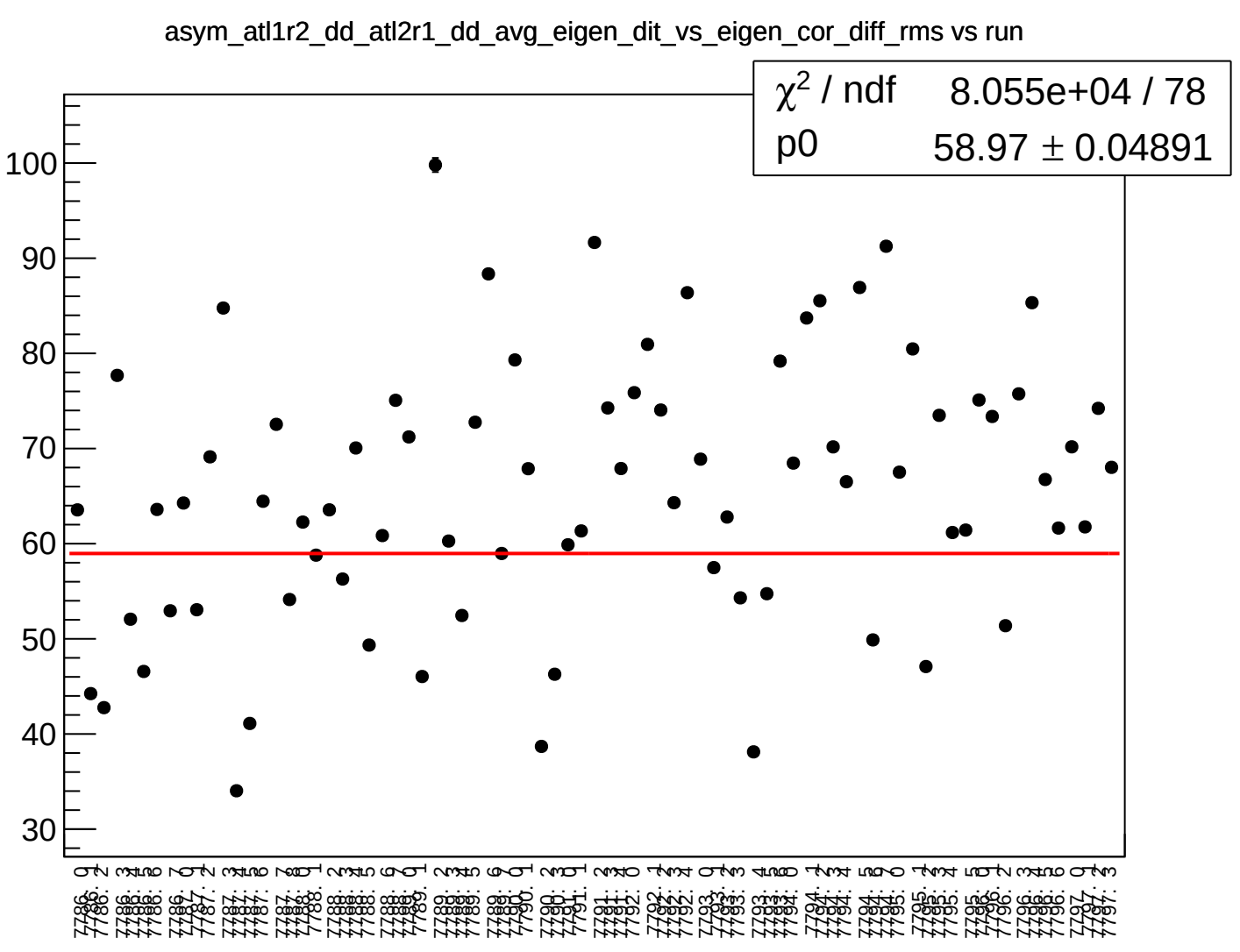

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3666 / 78
p0 0.01105 ± 8.932e–06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

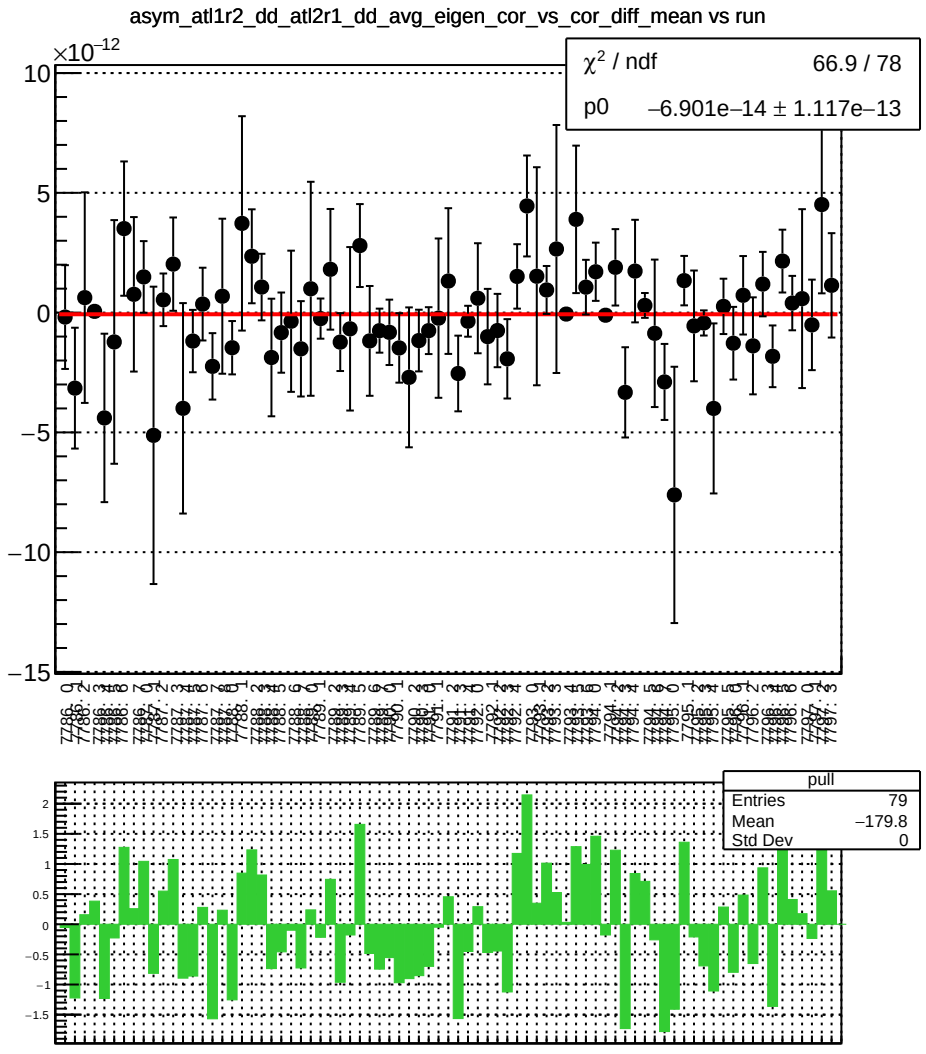

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.58 / 78
p0 −0.1213 ± 0.06918
pull
Entries 79
Mean −118.1
Std Dev 0

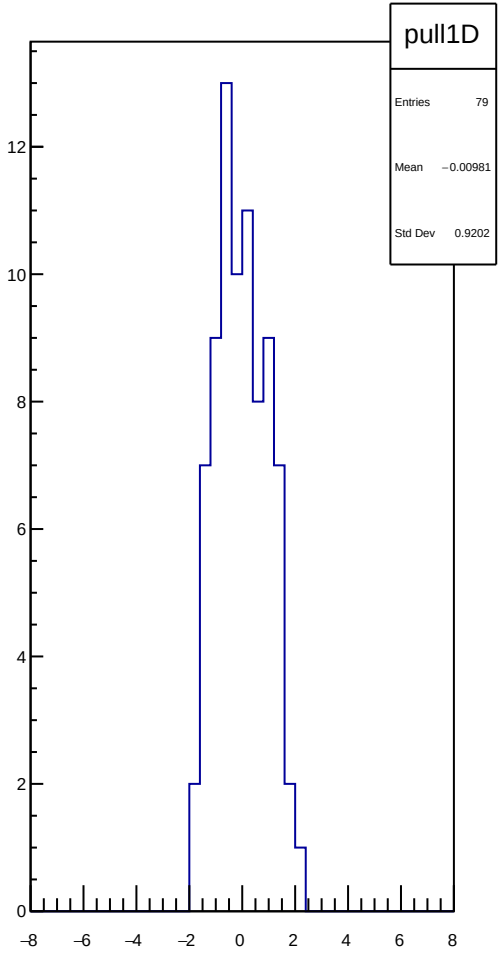

pull1D
Entries 79
Mean −0.02161
Std Dev 0.9648

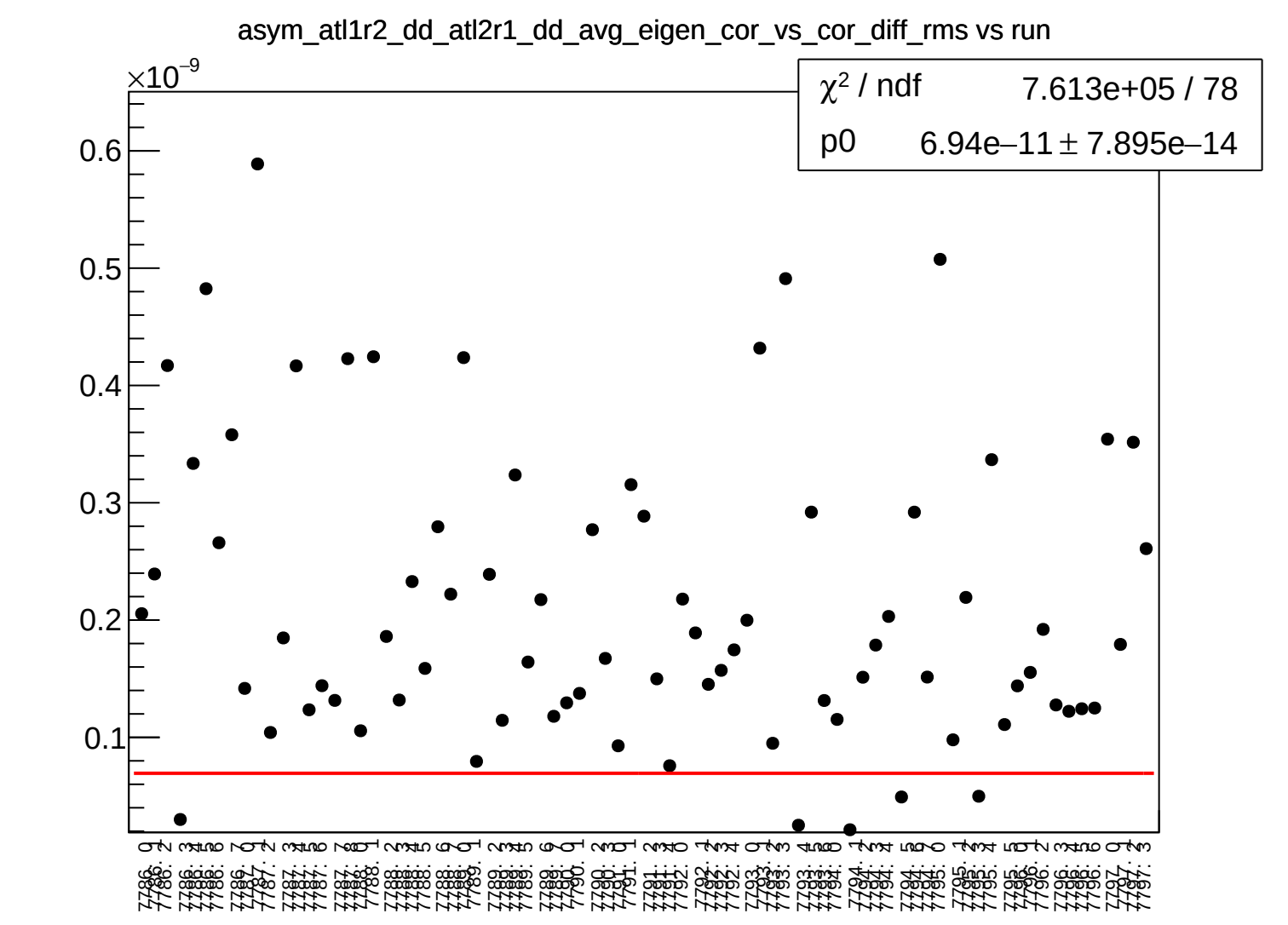

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.055e+04 / 78
p0 58.97 ± 0.04891
100
90
80
70
60
50
40
30

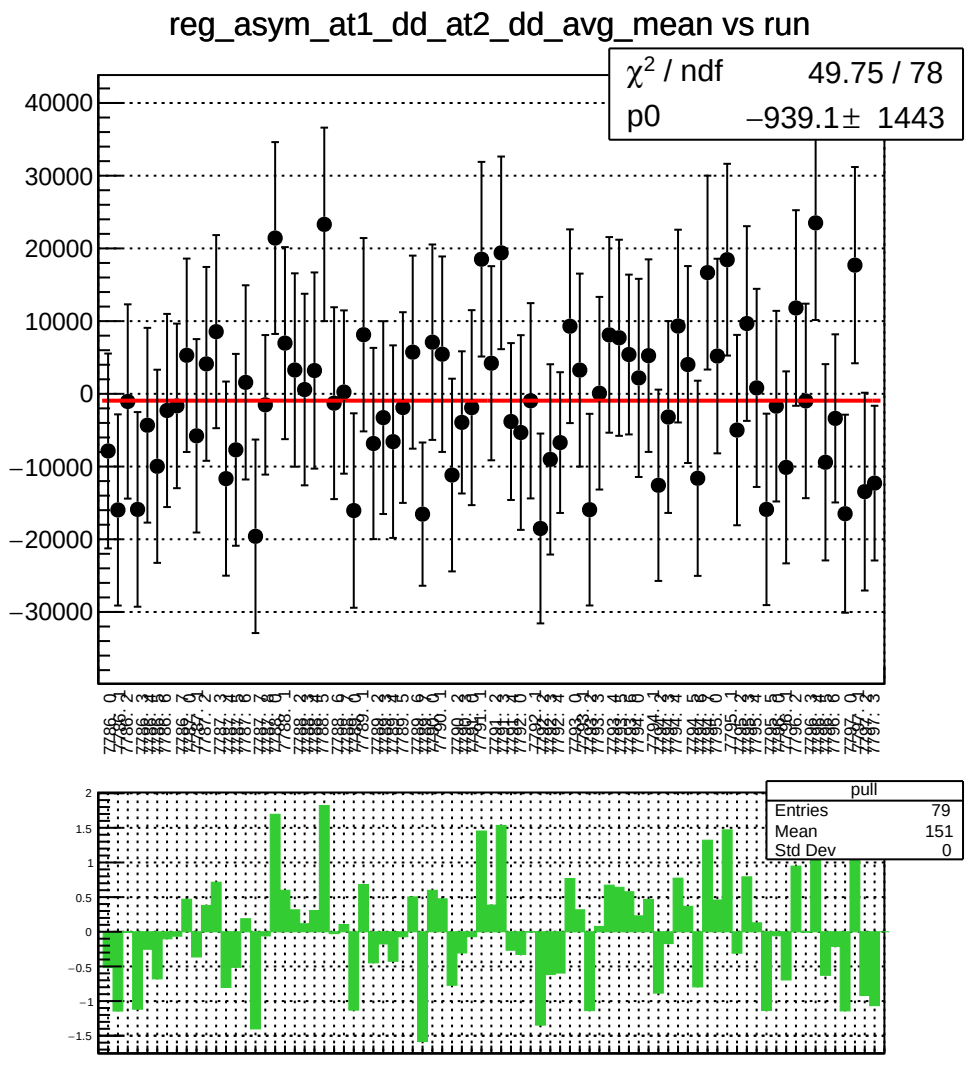

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.58 / 78
p0 −0.1213 ± 0.06918
pull
Entries 79
Mean −118.1
Std Dev 0
pull1D
Entries 79
Mean −0.02161
Std Dev 0.9648

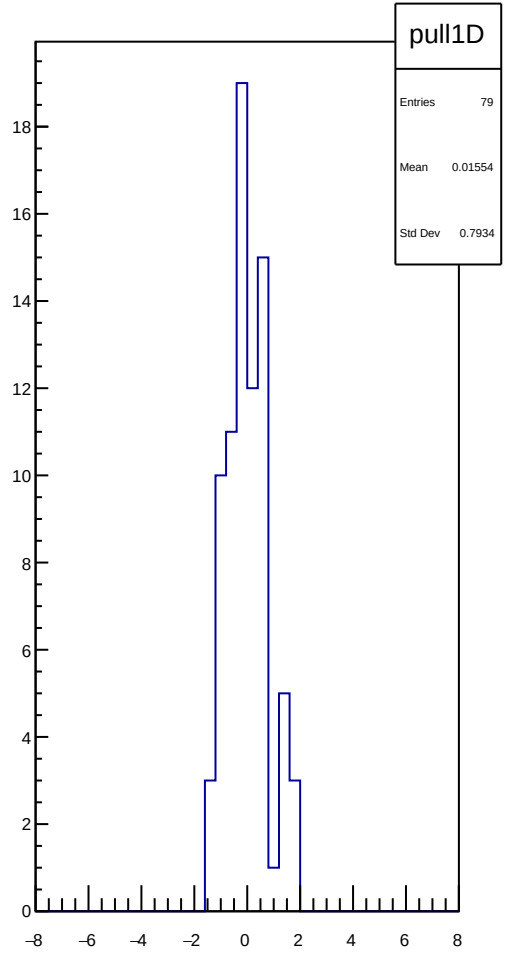

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.055e+04 / 78
p0 58.97 ± 0.04891
100
90
80
70
60
50
40
30

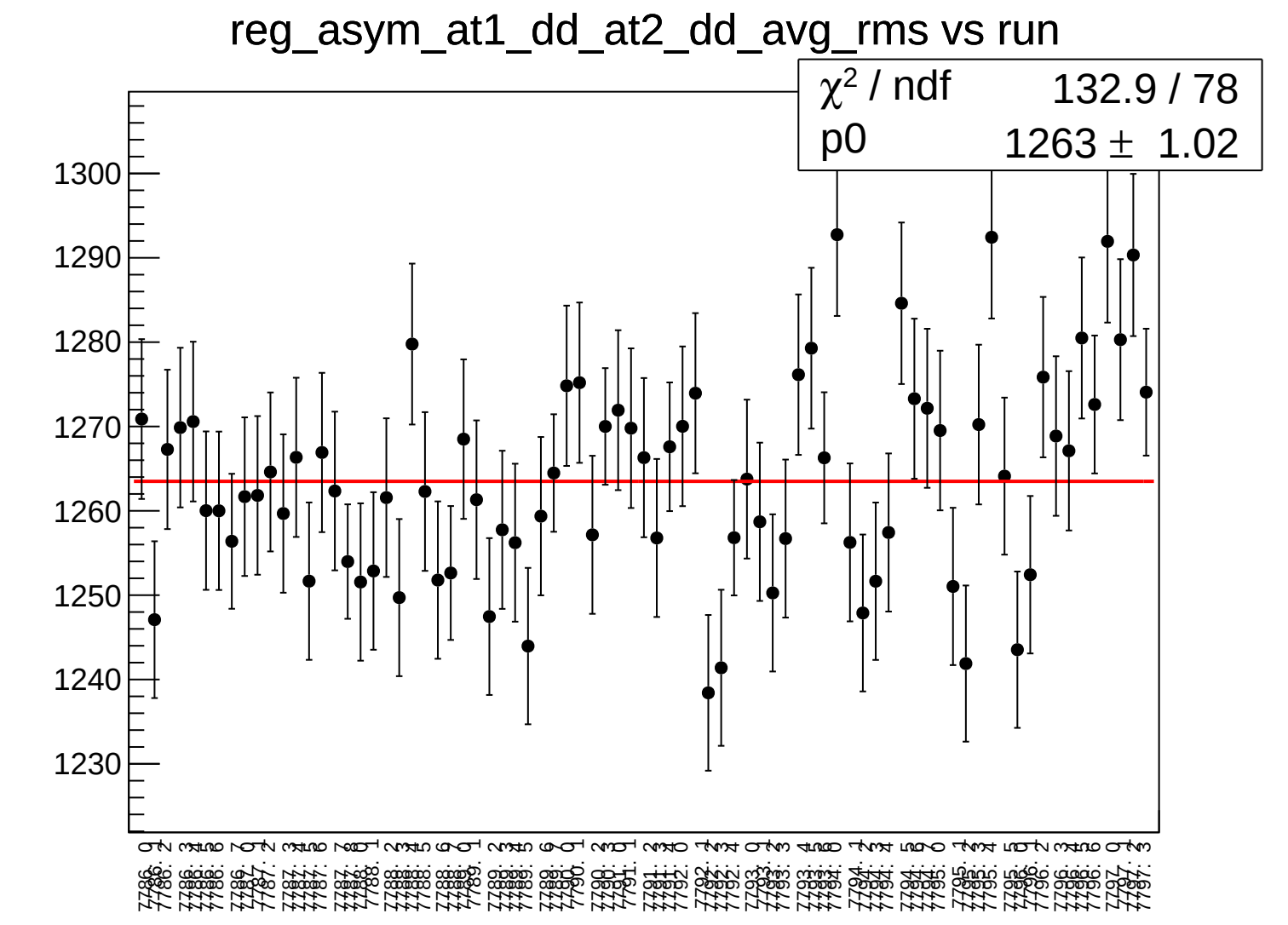

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.9 / 78
p0 −6.901e−14 ± 1.117e−13
pull
Entries 79
Mean −179.8
Std Dev 0

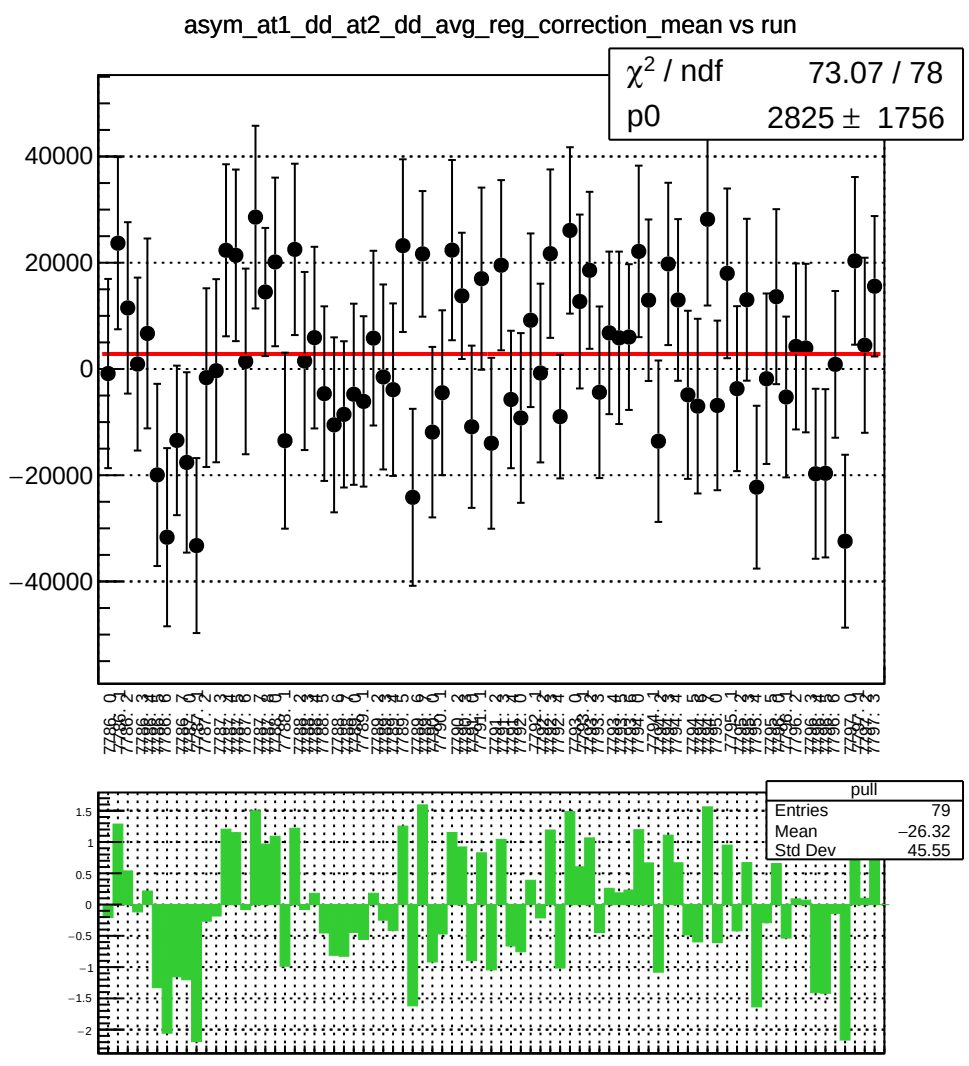

pull1D
Entries 79
Mean −0.00981
Std Dev 0.9202

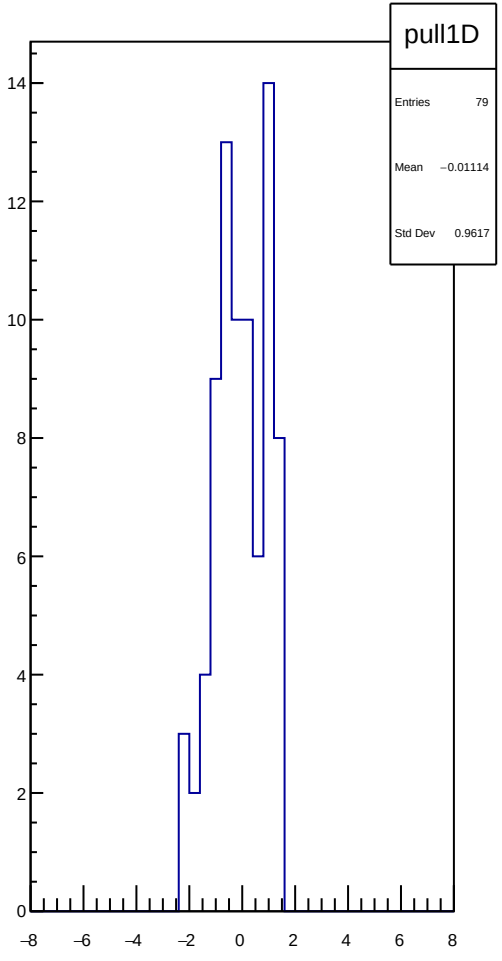

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.613e+05 / 78
p0 6.94e−11 ± 7.895e−14
0.6
0.5
0.4
0.3
0.2
0.1

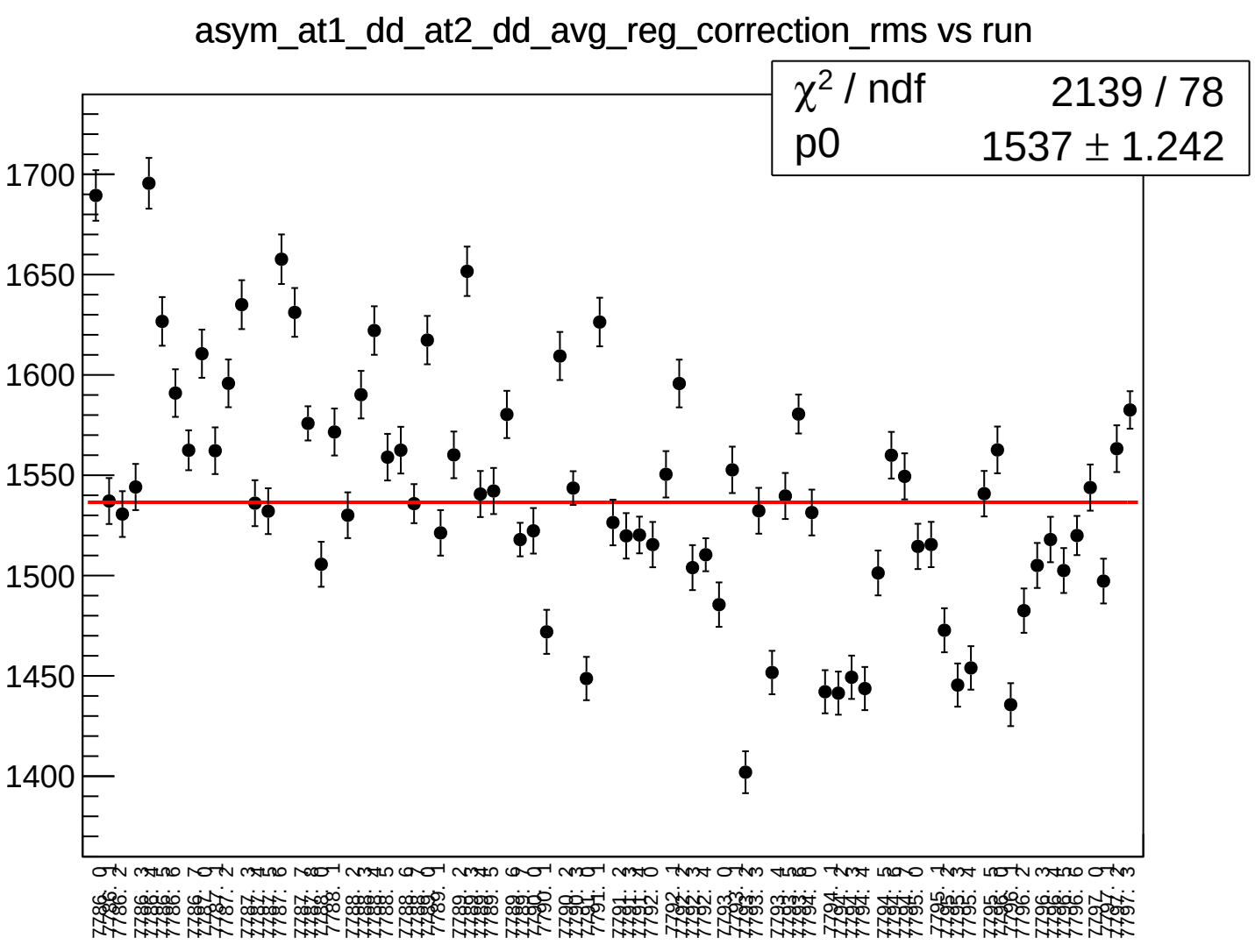

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 49.75 / 78
p0 −939.1± 1443
pull
Entries 79
Mean 151
Std Dev 0

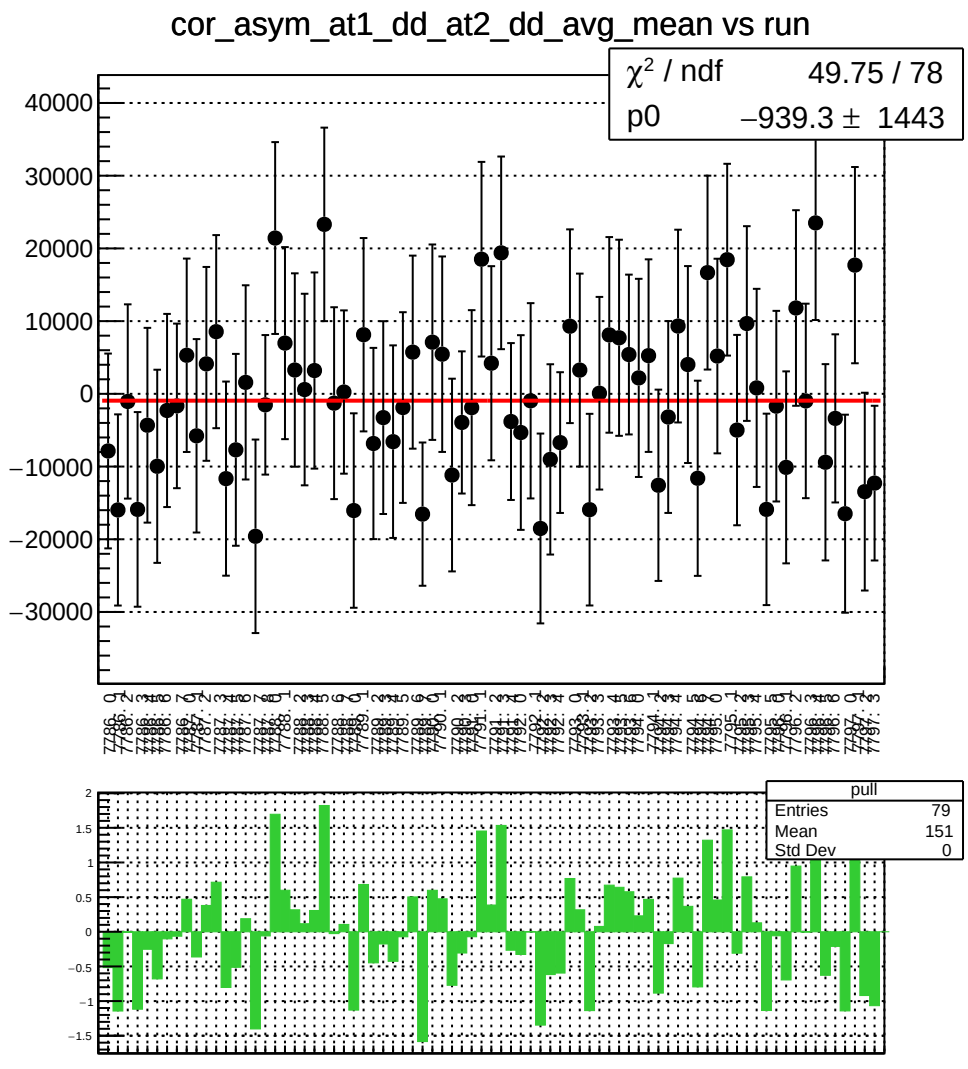

pull1D
Entries 79
Mean 0.01554
Std Dev 0.7934

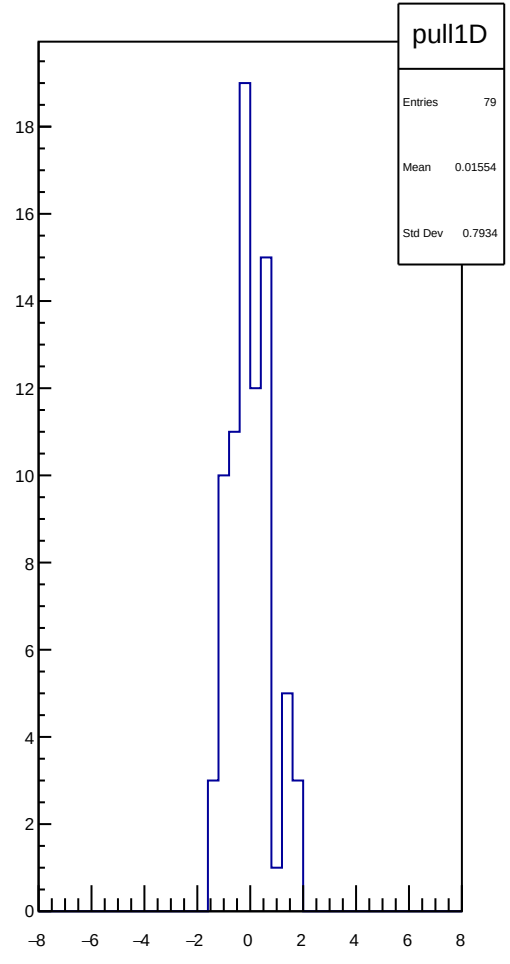

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 132.9 / 78
p0 1263 ± 1.02
1300
1290
1280
1270
1260
1250
1240
1230

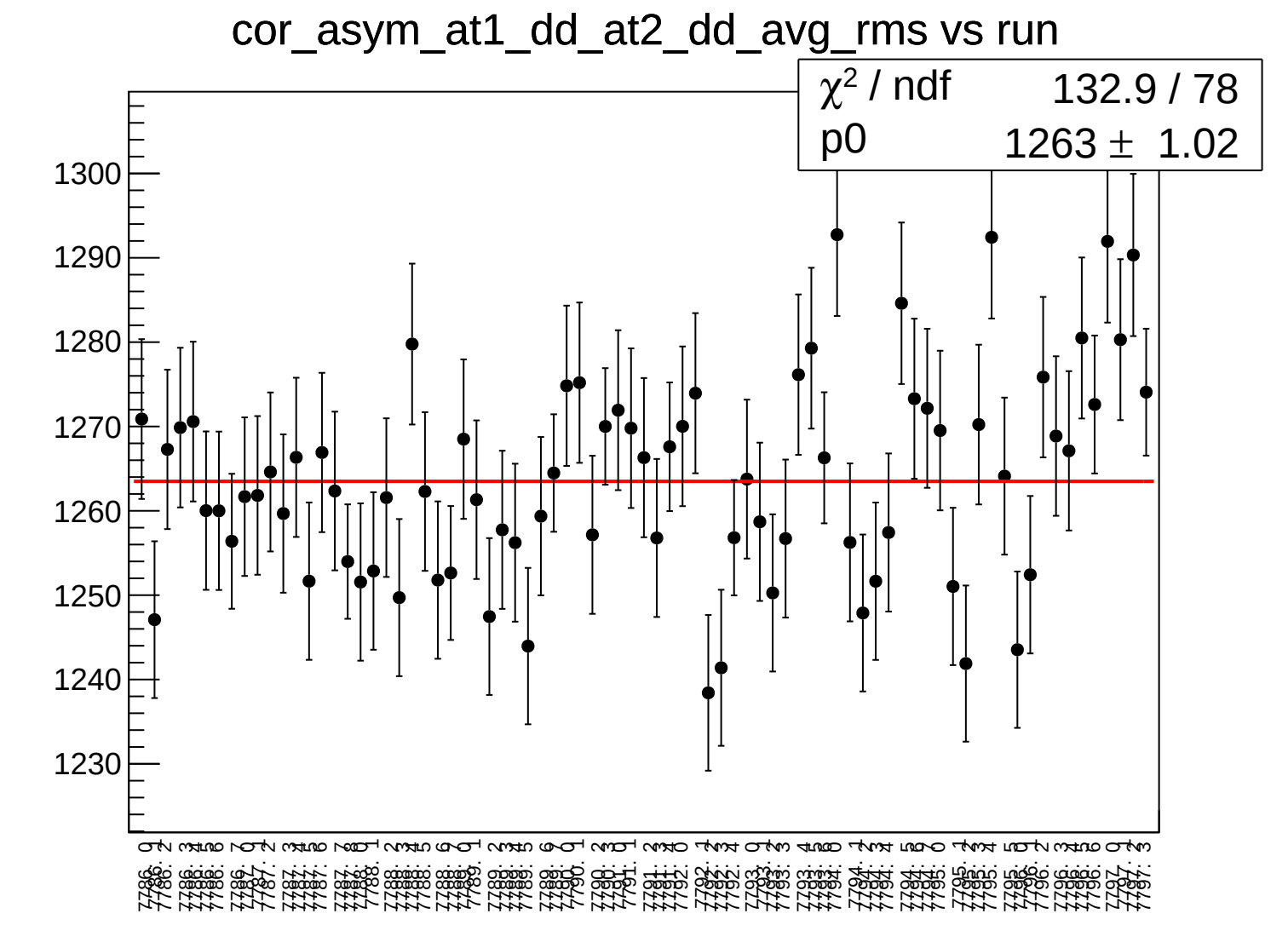

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 73.07 / 78
p0 2825 ± 1756
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −26.32
Std Dev 45.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2

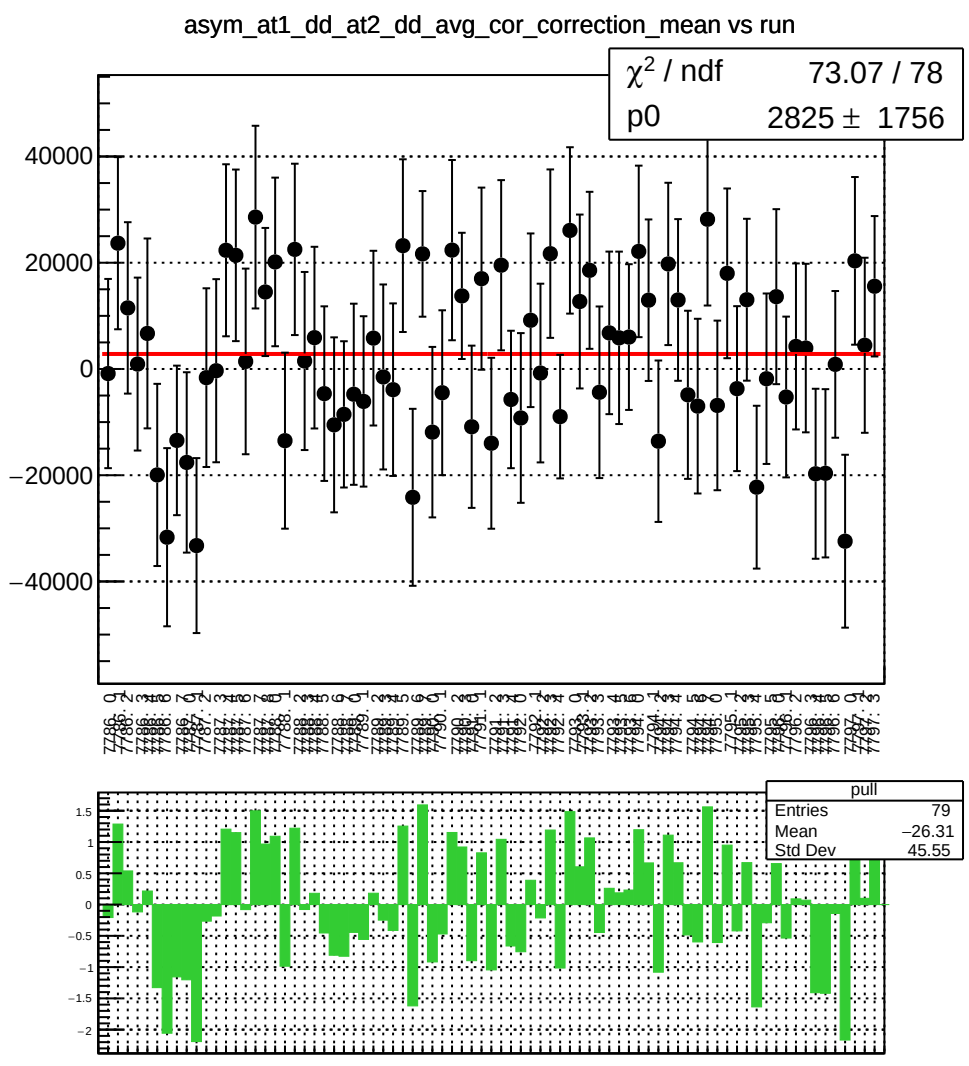

pull1D
Entries 79
Mean −0.01114
Std Dev 0.9617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

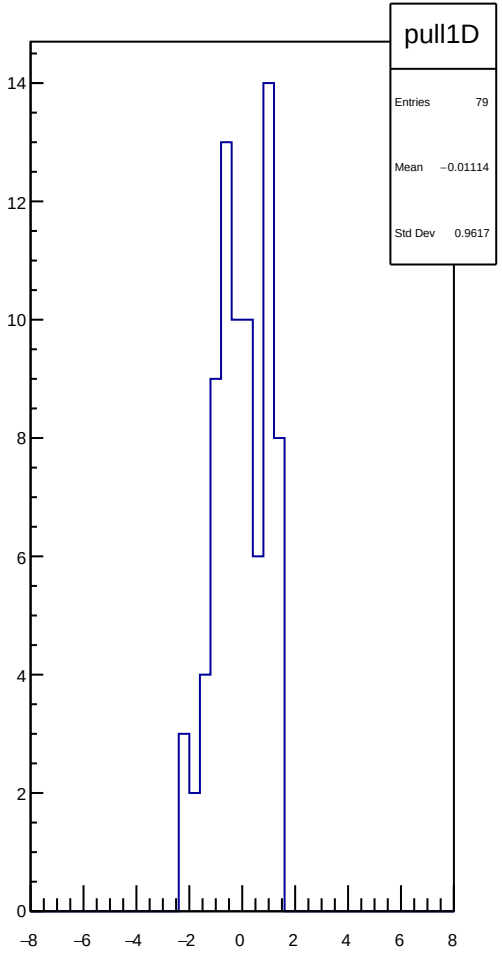

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 2139 / 78
p0 1537 ± 1.242
1700
1650
1600
1550
1500
1450
1400

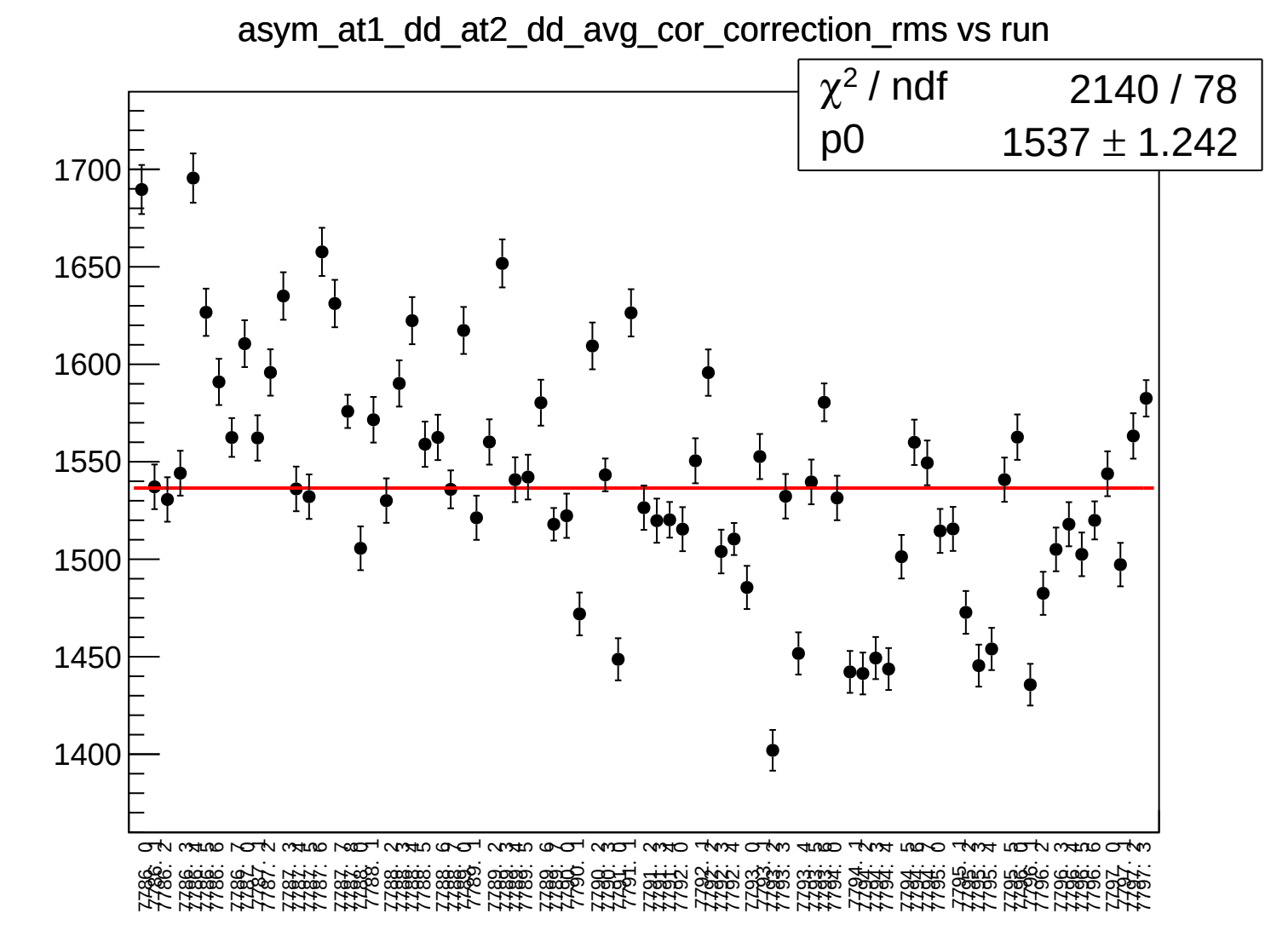

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 49.75 / 78
p0 −939.3 ± 1443
pull
Entries 79
Mean 151
Std Dev 0

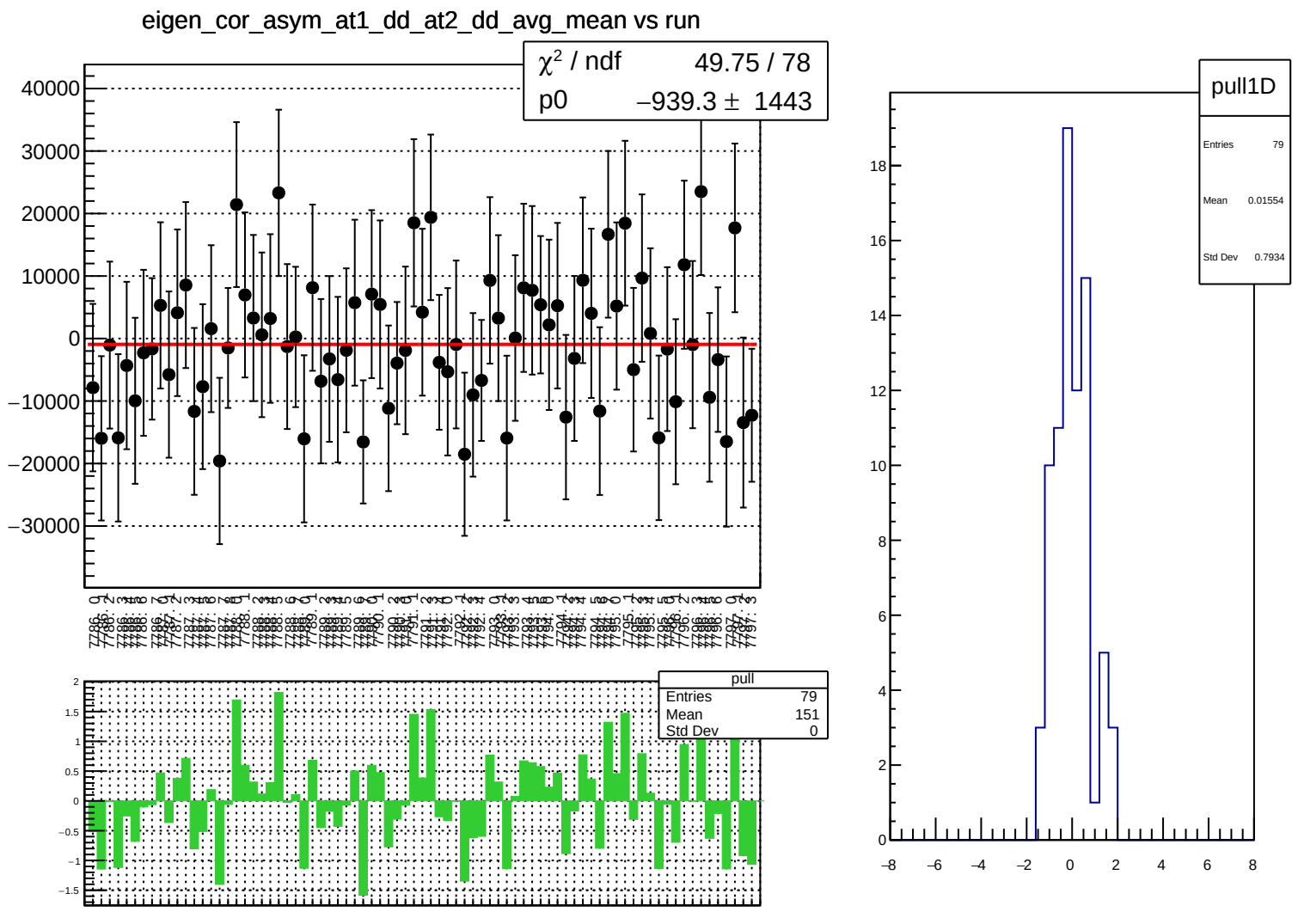

pull1D
Entries 79
Mean 0.01554
Std Dev 0.7934

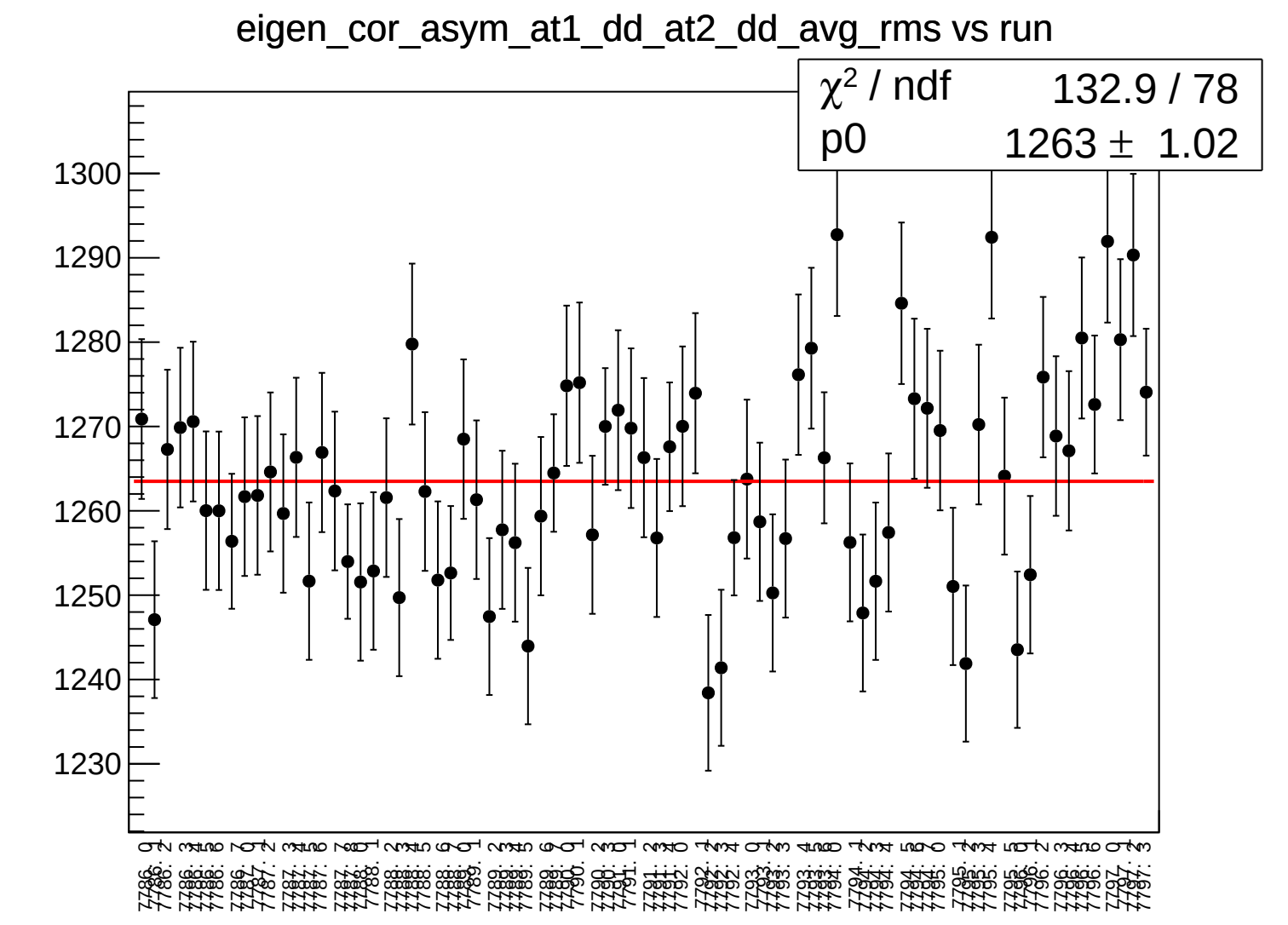

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 132.9 / 78
p0 1263 ± 1.02
1300
1290
1280
1270
1260
1250
1240
1230

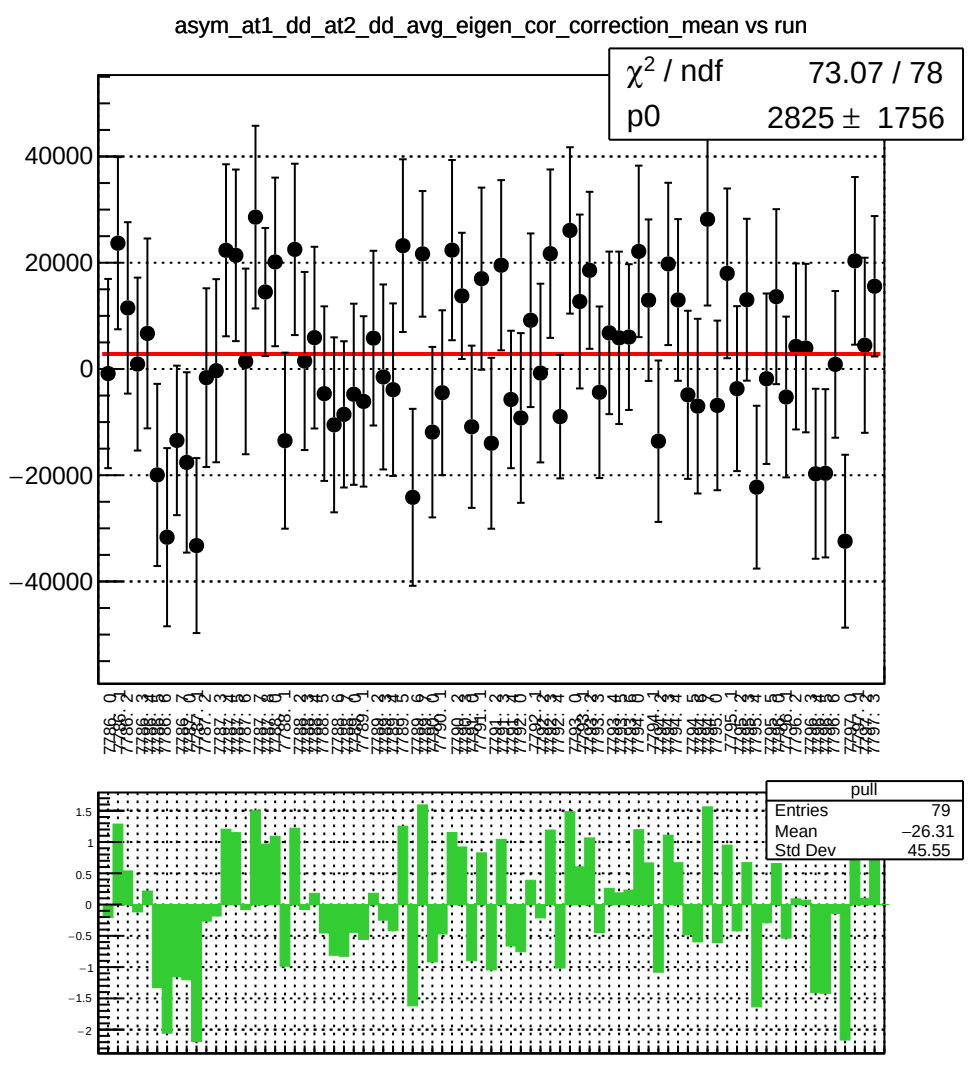

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 73.07 / 78
p0 2825 ± 1756
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −26.31
Std Dev 45.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2

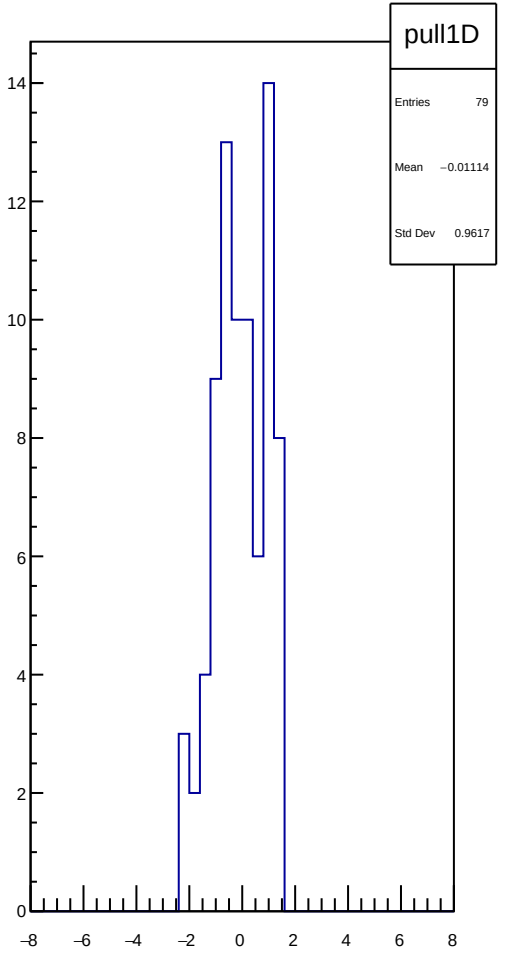

pull1D
Entries 79
Mean −0.01114
Std Dev 0.9617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

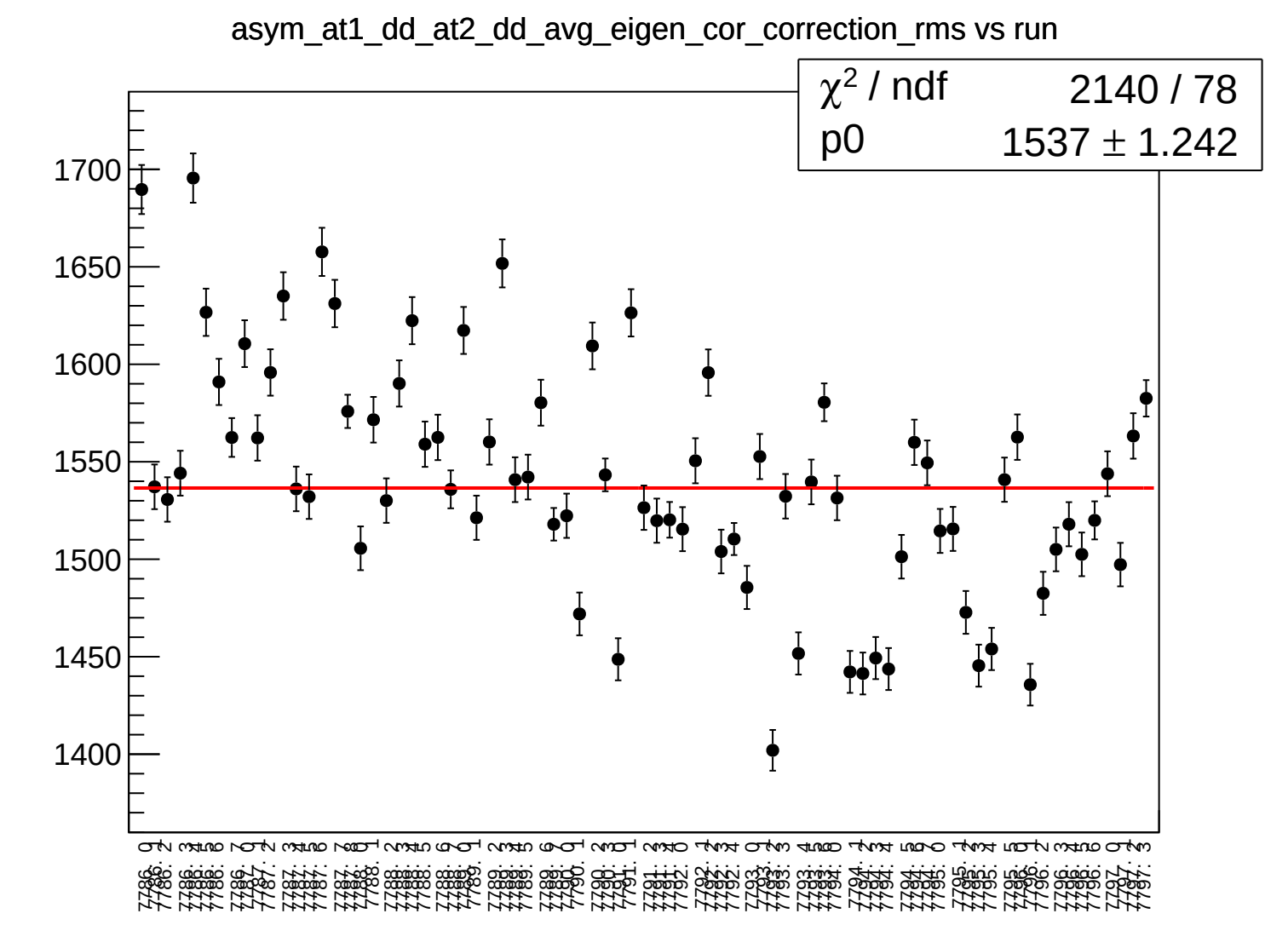

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 2140 / 78
p0 1537 ± 1.242
1700
1650
1600
1550
1500
1450
1400

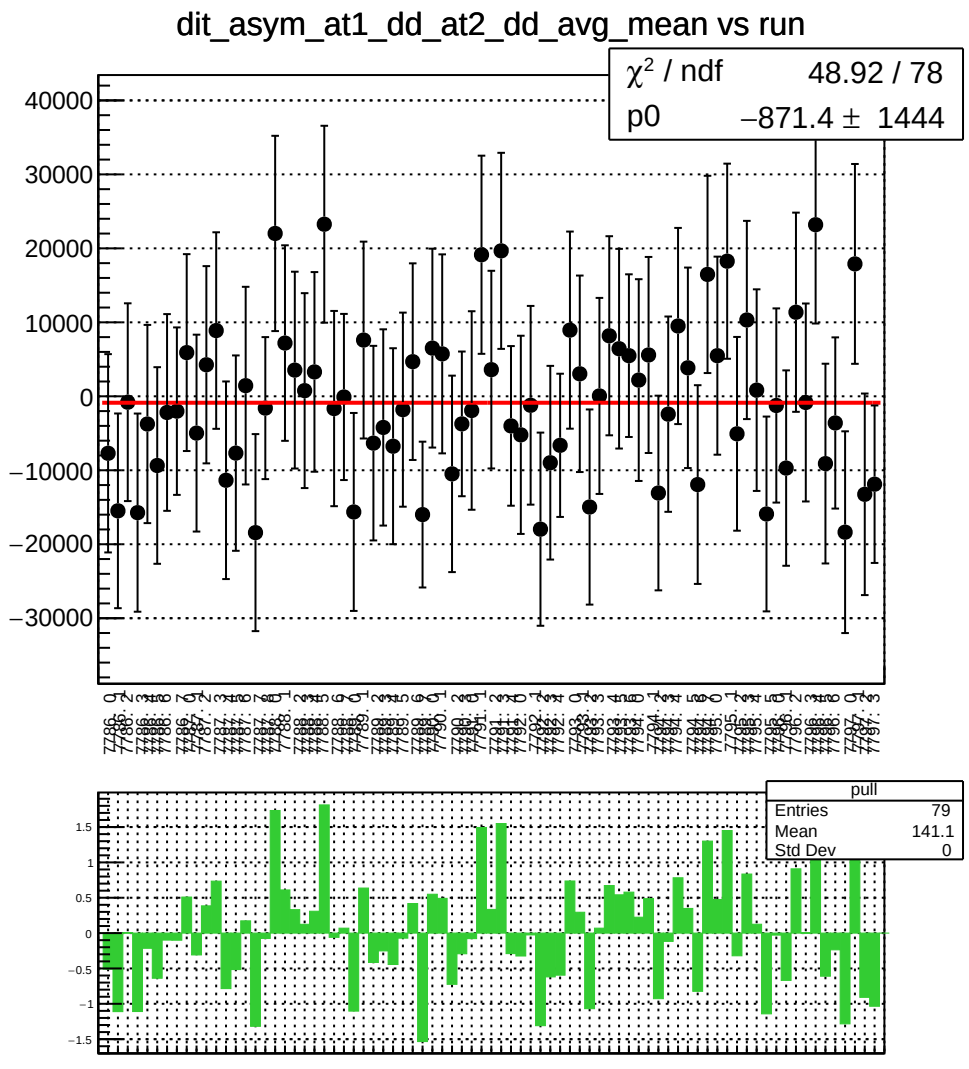

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 49.75 / 78
p0 −939.3 ± 1443
pull
Entries 79
Mean 151
Std Dev 0
pull1D
Entries 79
Mean 0.01554
Std Dev 0.7934

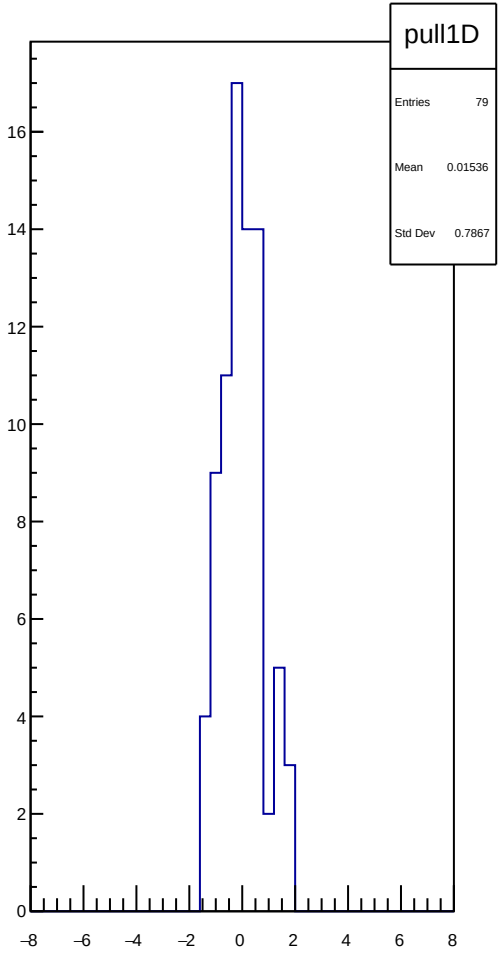

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 132.9 / 78
p0 1263 ± 1.02
1300
1290
1280
1270
1260
1250
1240
1230

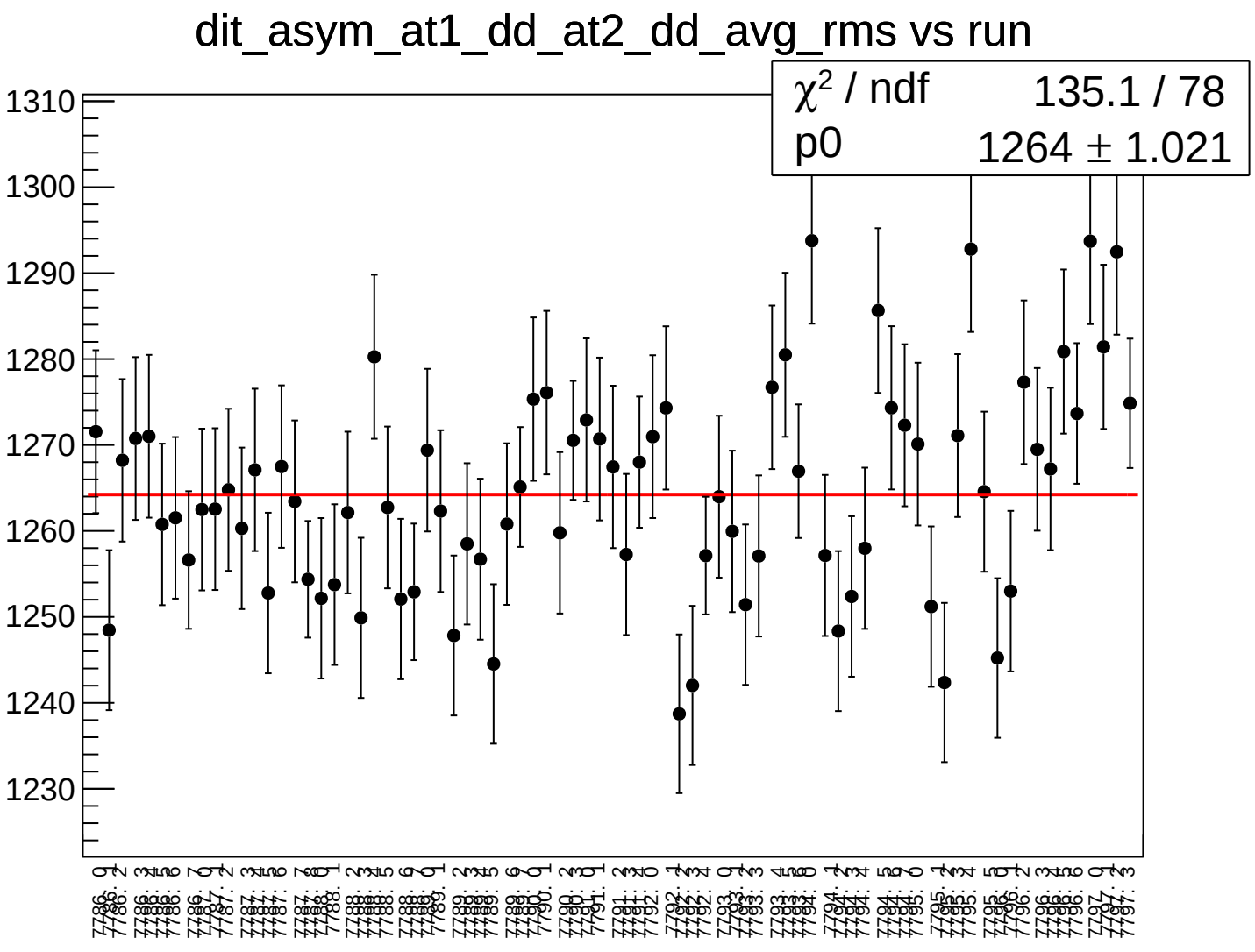

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.07 / 78
p0 2825 ± 1756
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −26.31
Std Dev 45.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2

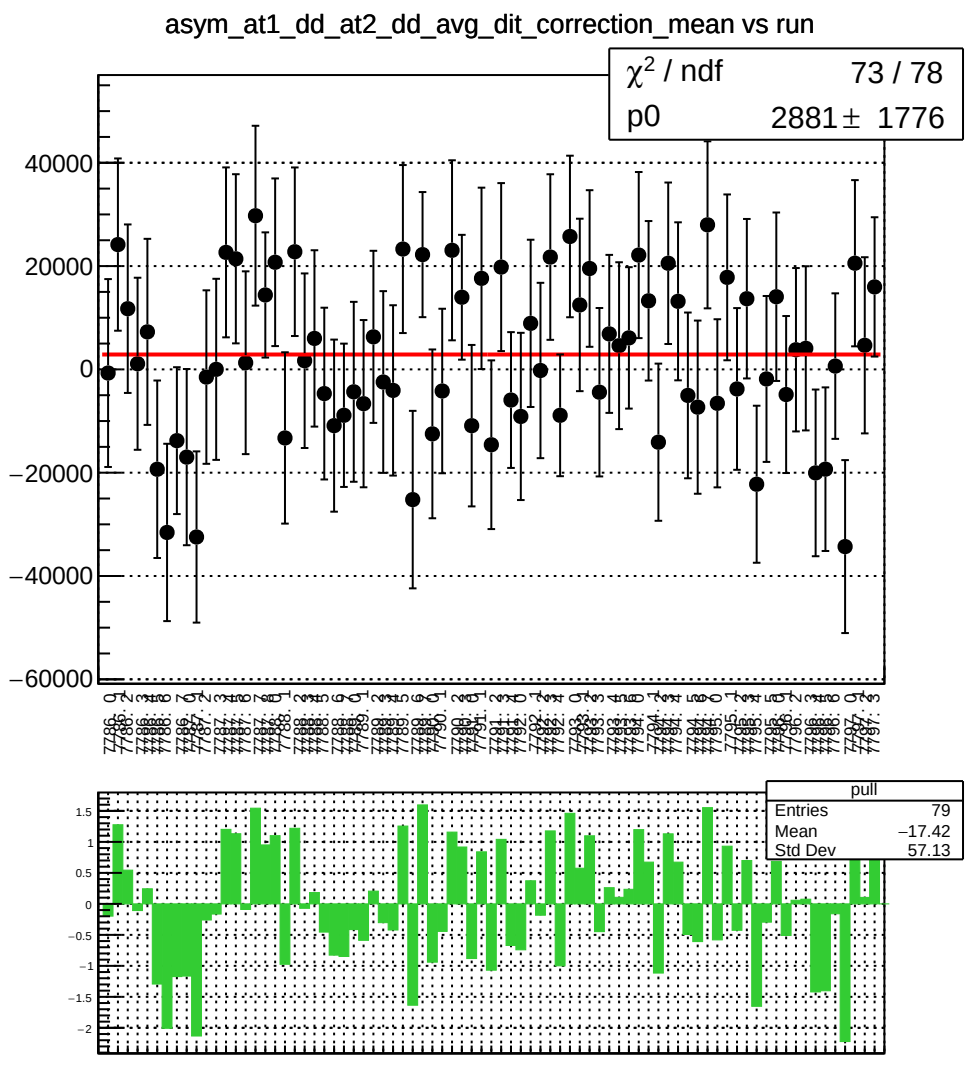

pull1D
Entries 79
Mean −0.01114
Std Dev 0.9617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

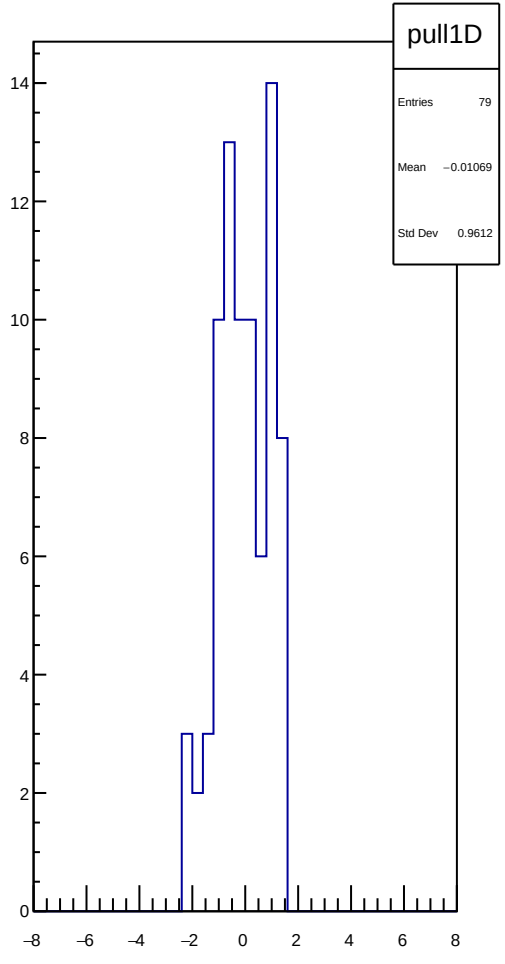

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2140 / 78
p0 1537 ± 1.242
1700
1650
1600
1550
1500
1450
1400

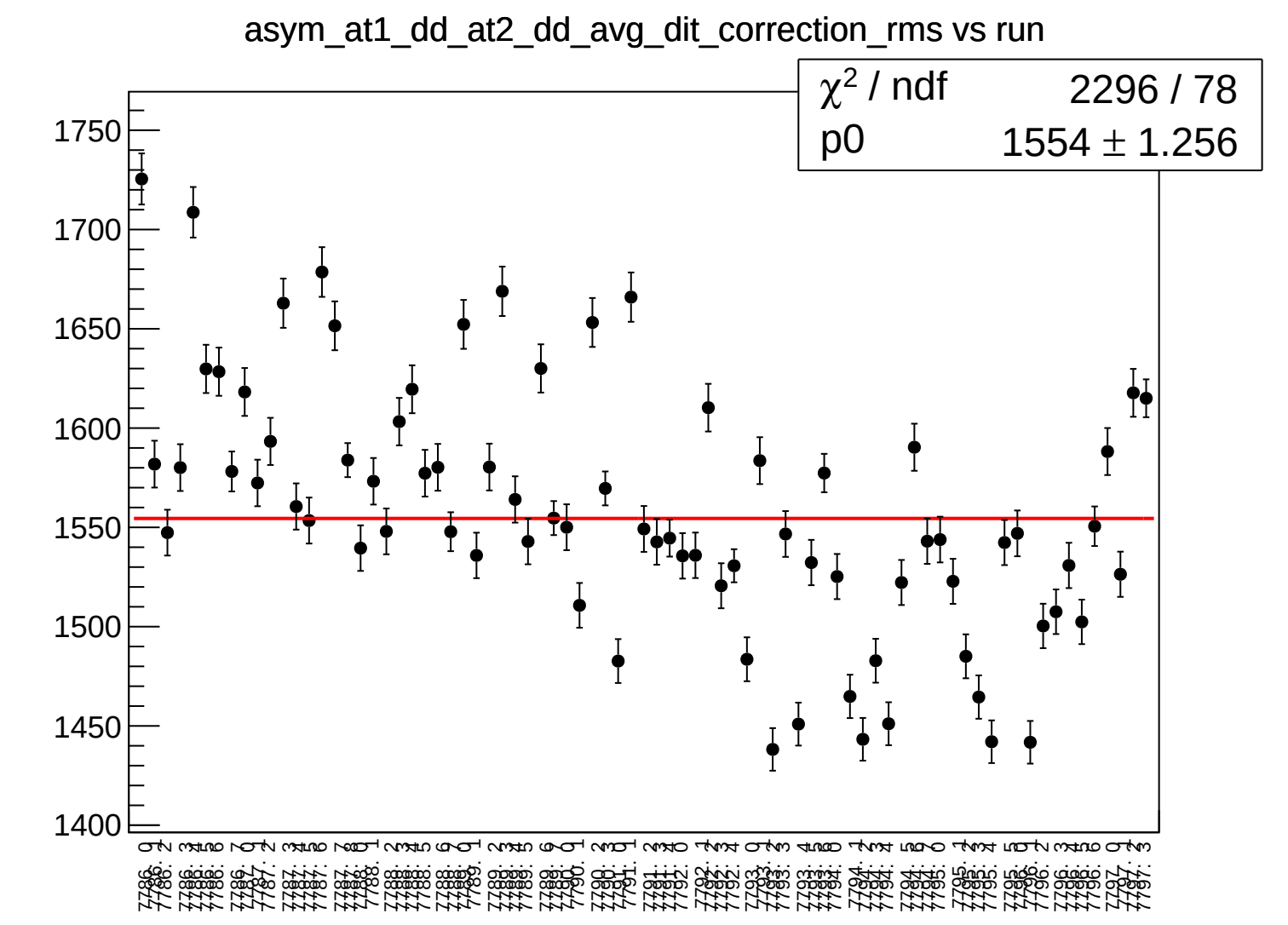

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 48.92 / 78
p0 −871.4 ± 1444
pull
Entries 79
Mean 141.1
Std Dev 0

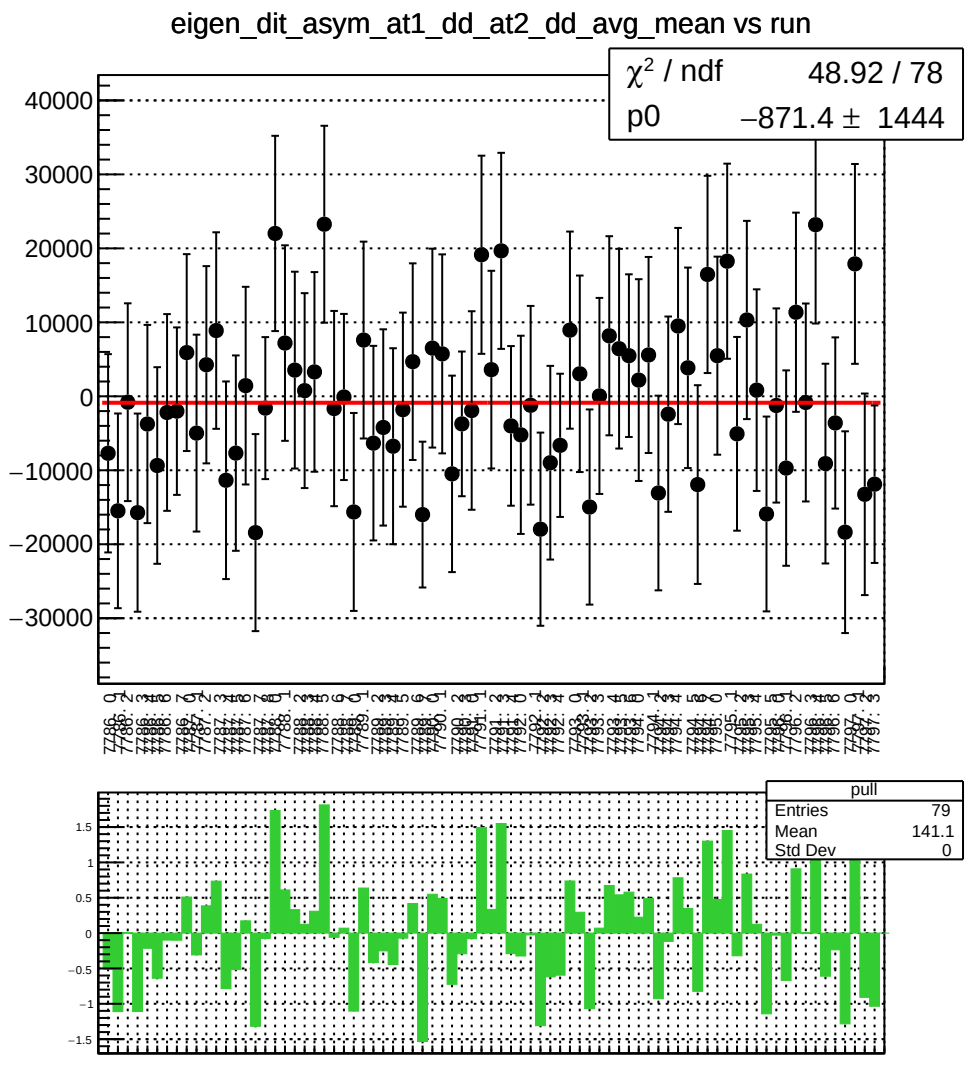

pull1D
Entries 79
Mean 0.01536
Std Dev 0.7867

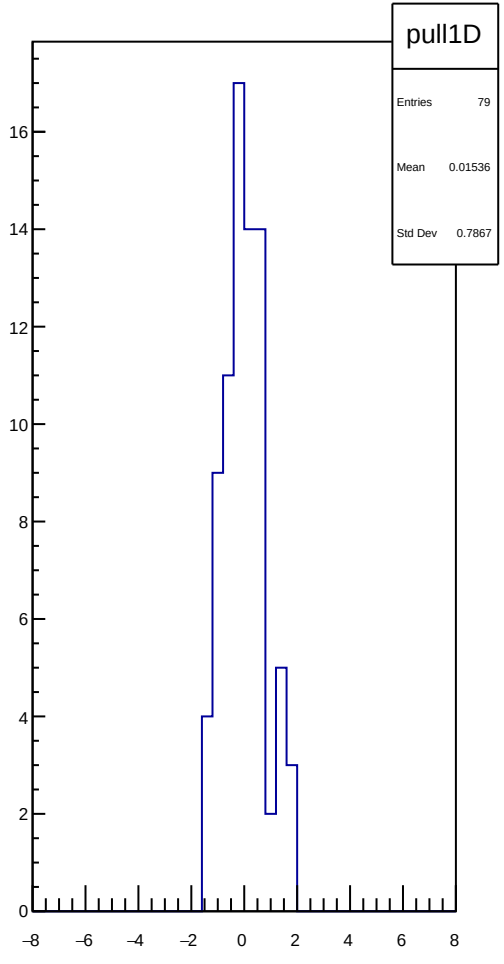

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 135.1 / 78
p0 1264 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240
1230

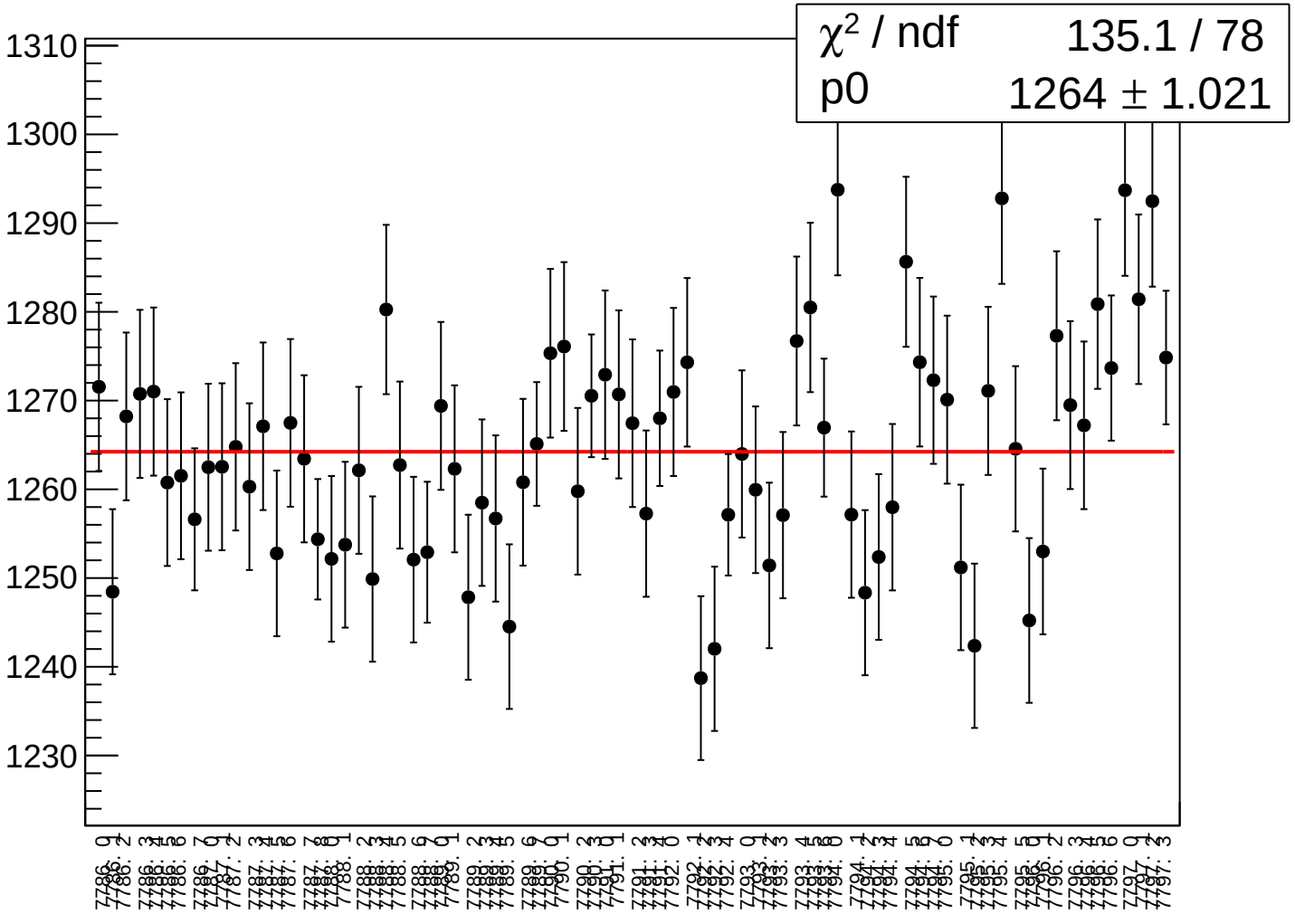

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 73 / 78
p0 2881 ± 1776
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −17.42
Std Dev 57.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2

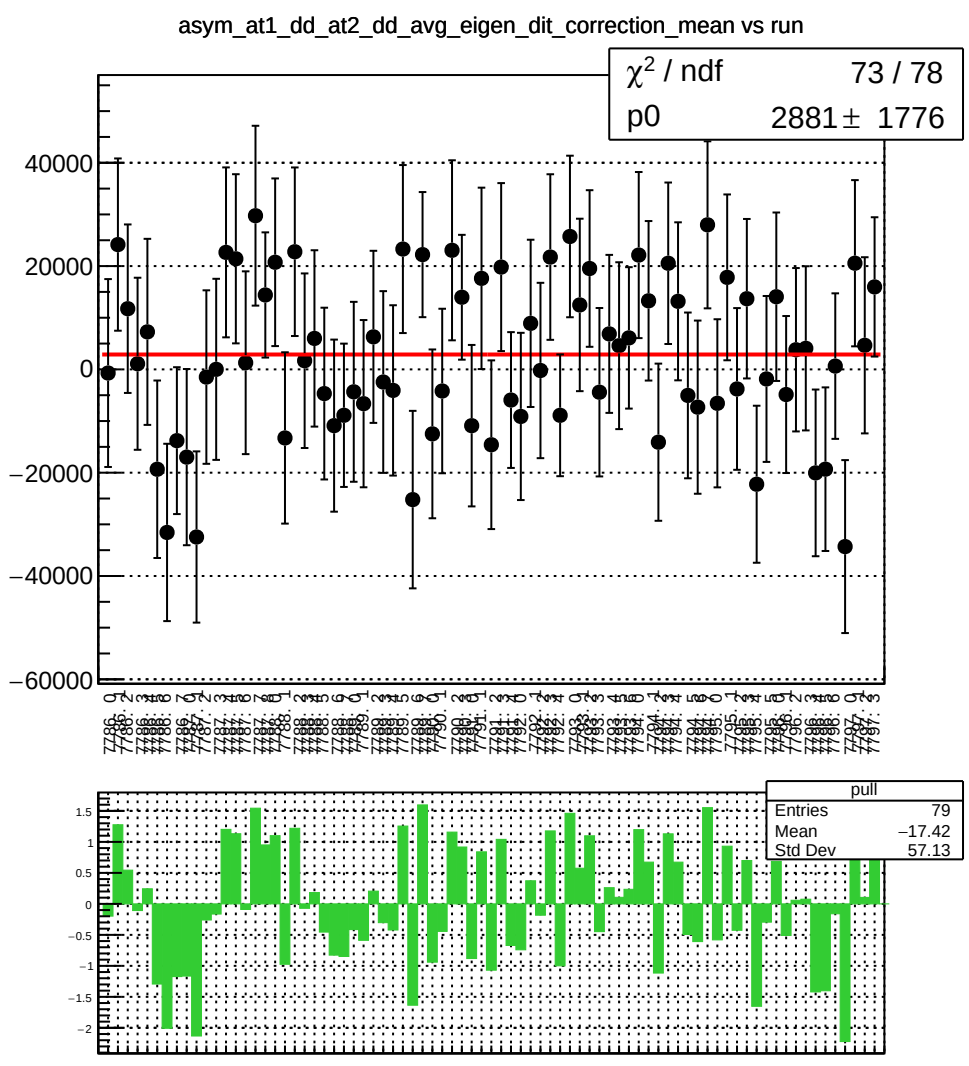

pull1D
Entries 79
Mean −0.01069
Std Dev 0.9612
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

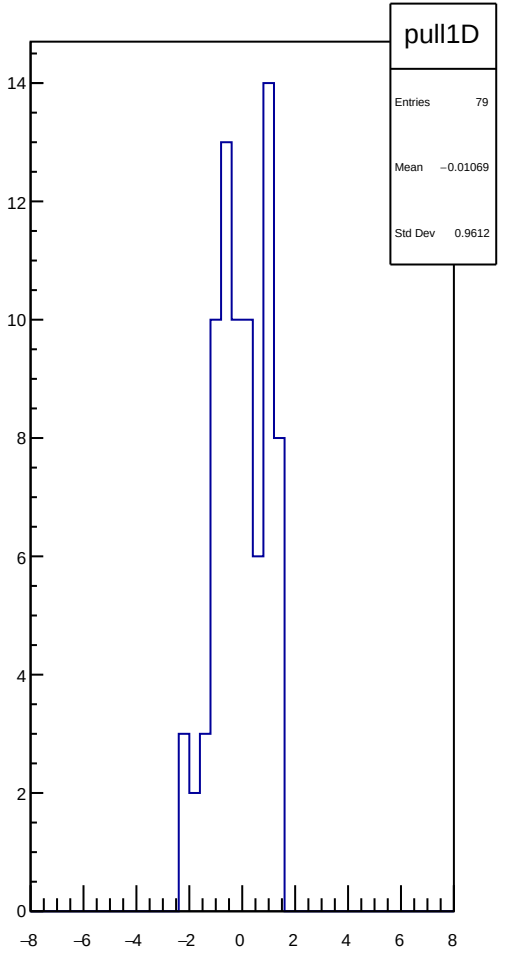

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 2296 / 78
p0 1554 ± 1.256
1750
1700
1650
1600
1550
1500
1450
1400

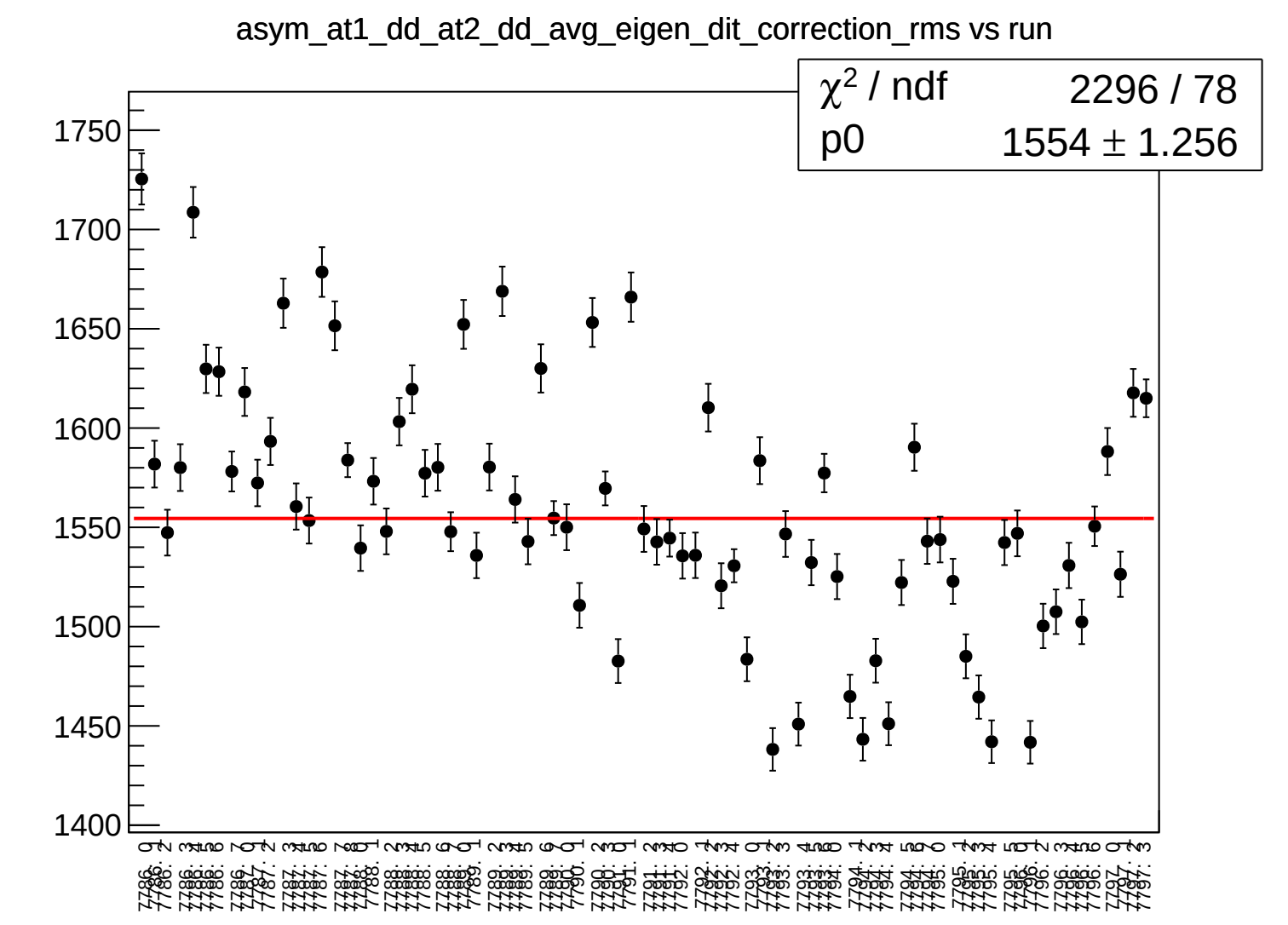

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 48.92 / 78
p0 −871.4 ± 1444
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean 141.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

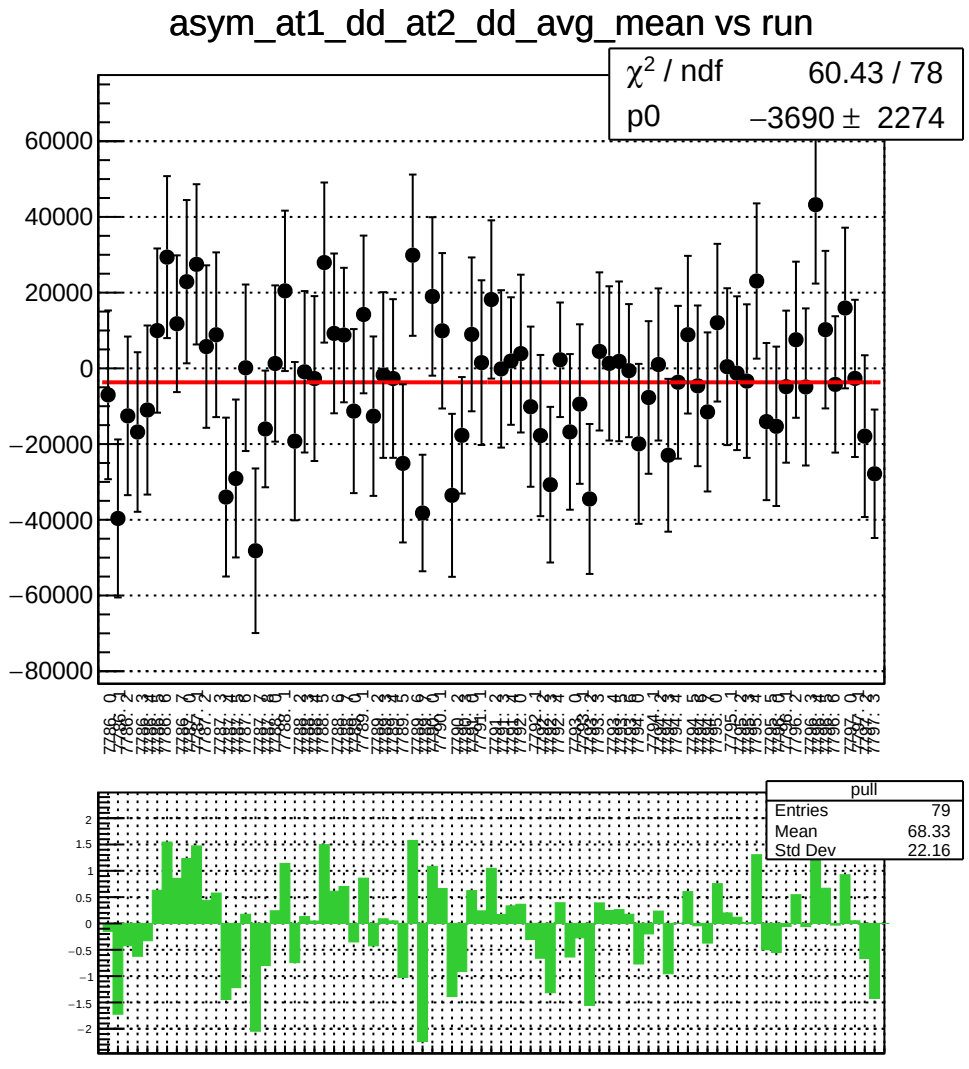

pull1D
Entries 79
Mean 0.01536
Std Dev 0.7867
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

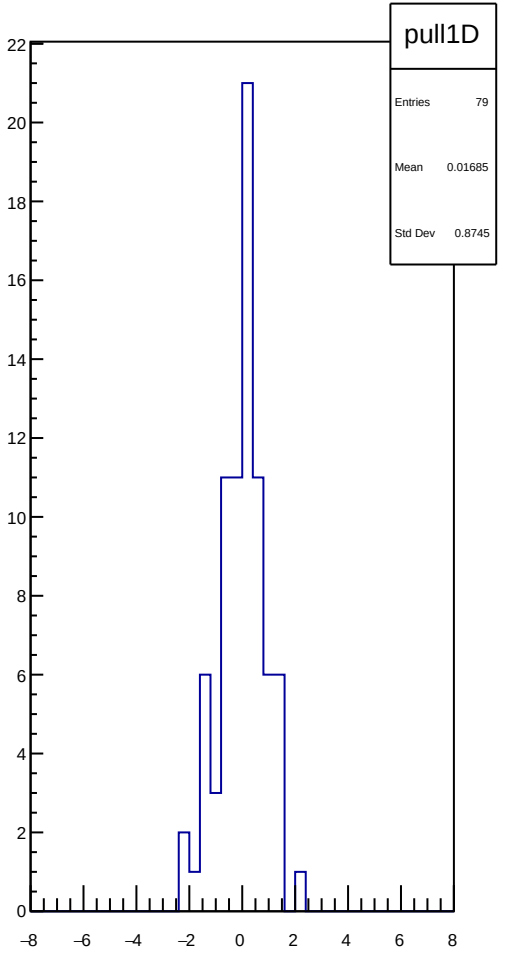

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 135.1 / 78
p0 1264 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240
1230

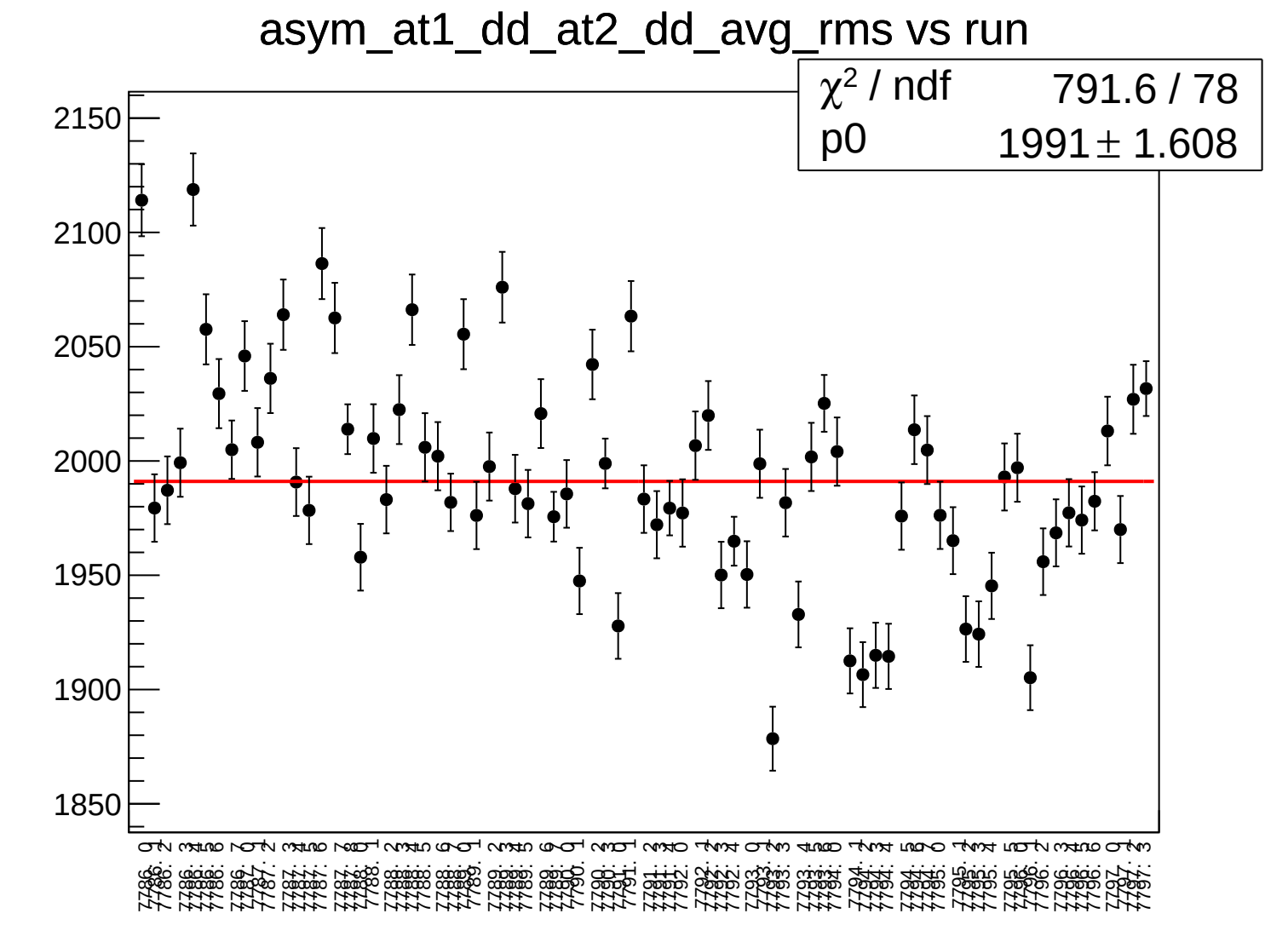

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 73 / 78
p0 2881 ± 1776
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −17.42
Std Dev 57.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2

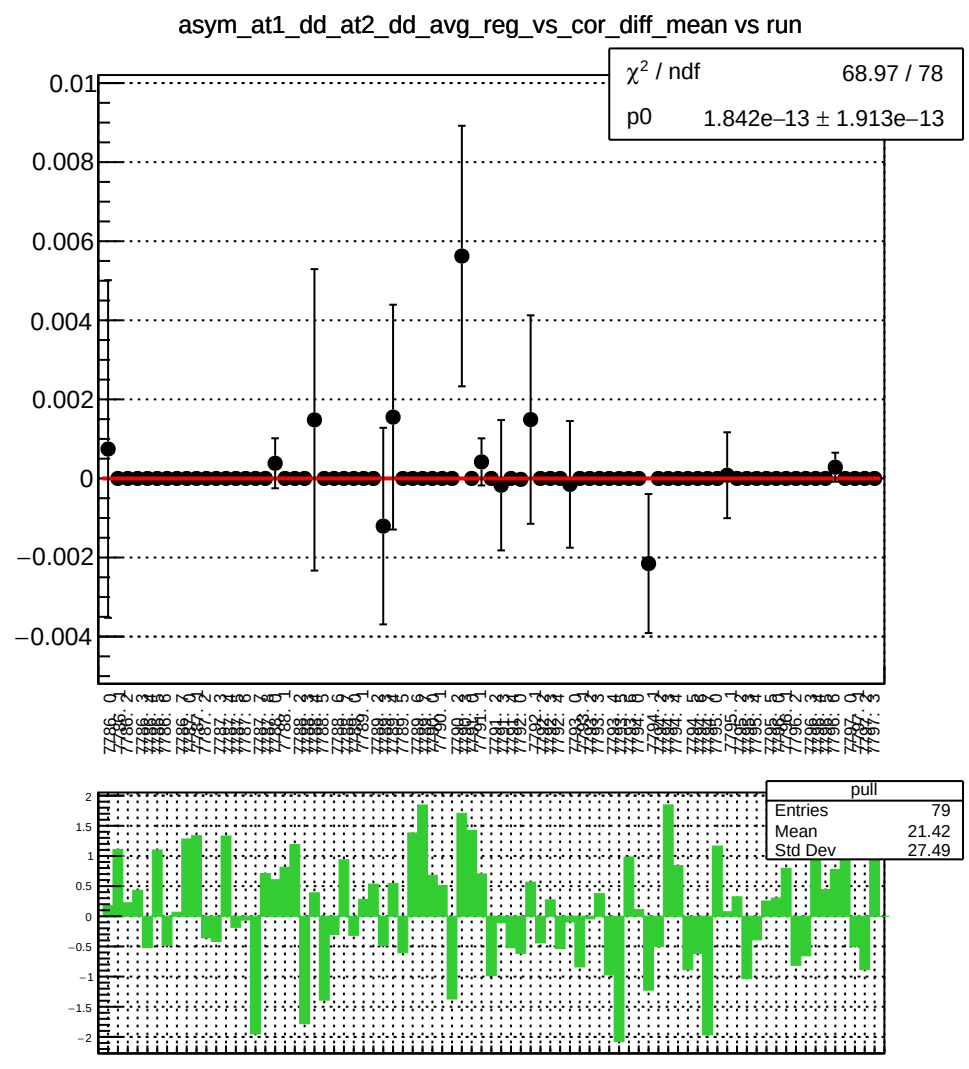

pull1D
Entries 79
Mean −0.01069
Std Dev 0.9612
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

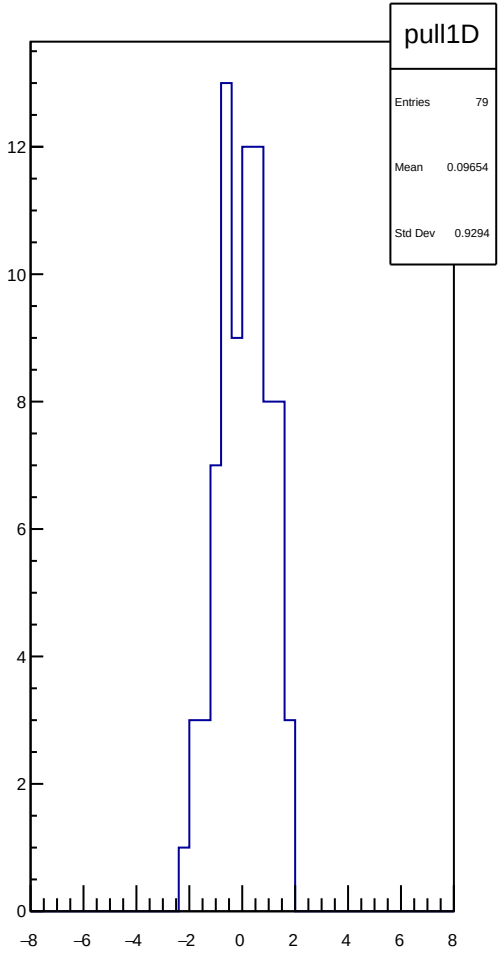

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2296 / 78
p0 1554 ± 1.256
1750
1700
1650
1600
1550
1500
1450
1400

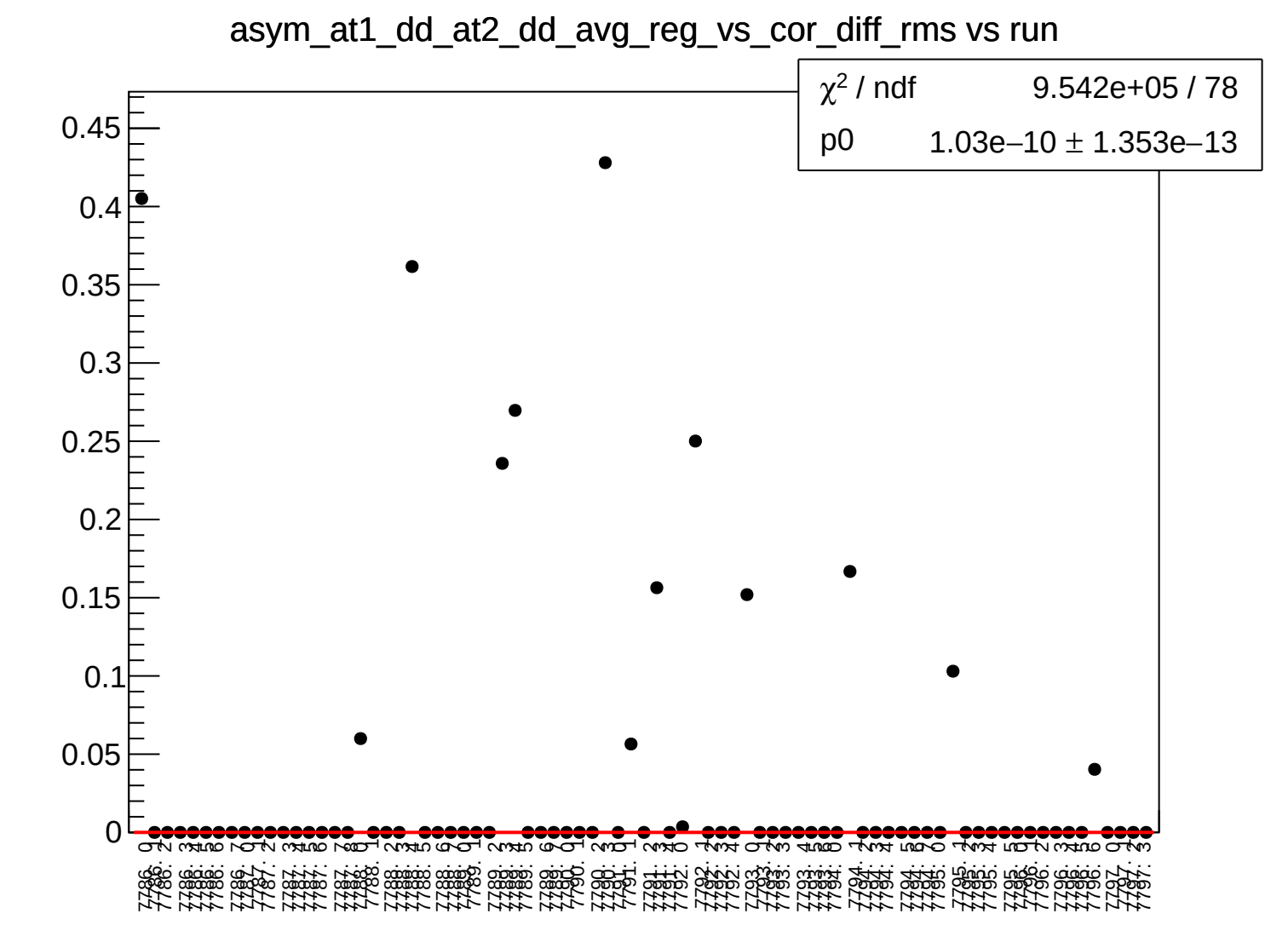

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 60.43 / 78
p0 −3690 ± 2274
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean 68.33
Std Dev 22.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

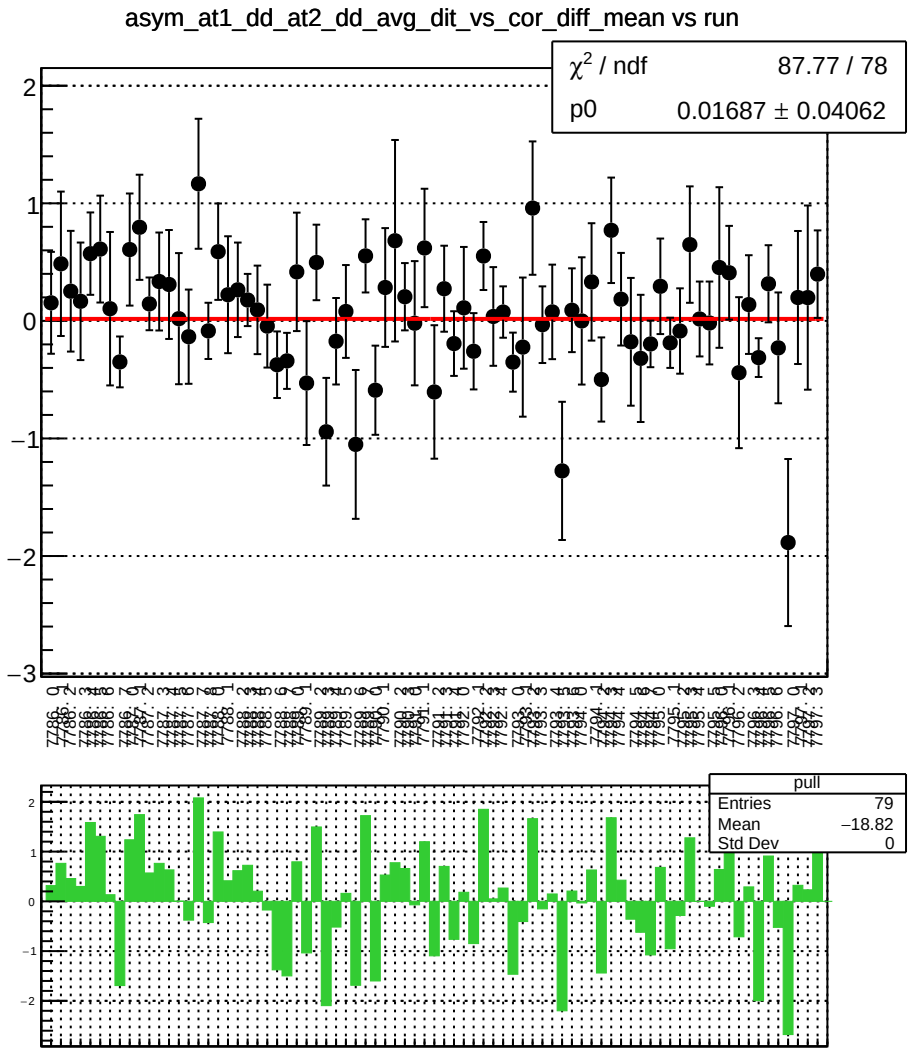

pull1D
Entries 79
Mean 0.01685
Std Dev 0.8745
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

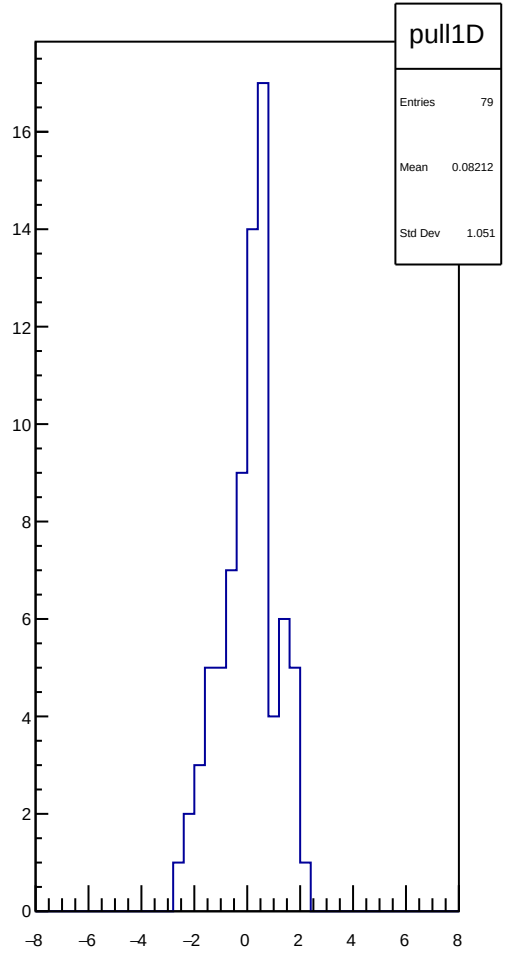

asym_at1_dd_at2_dd_avg_rms vs run
χ^2 / ndf 791.6 / 78
p0 1991 ± 1.608
2150
2100
2050
2000
1950
1900
1850

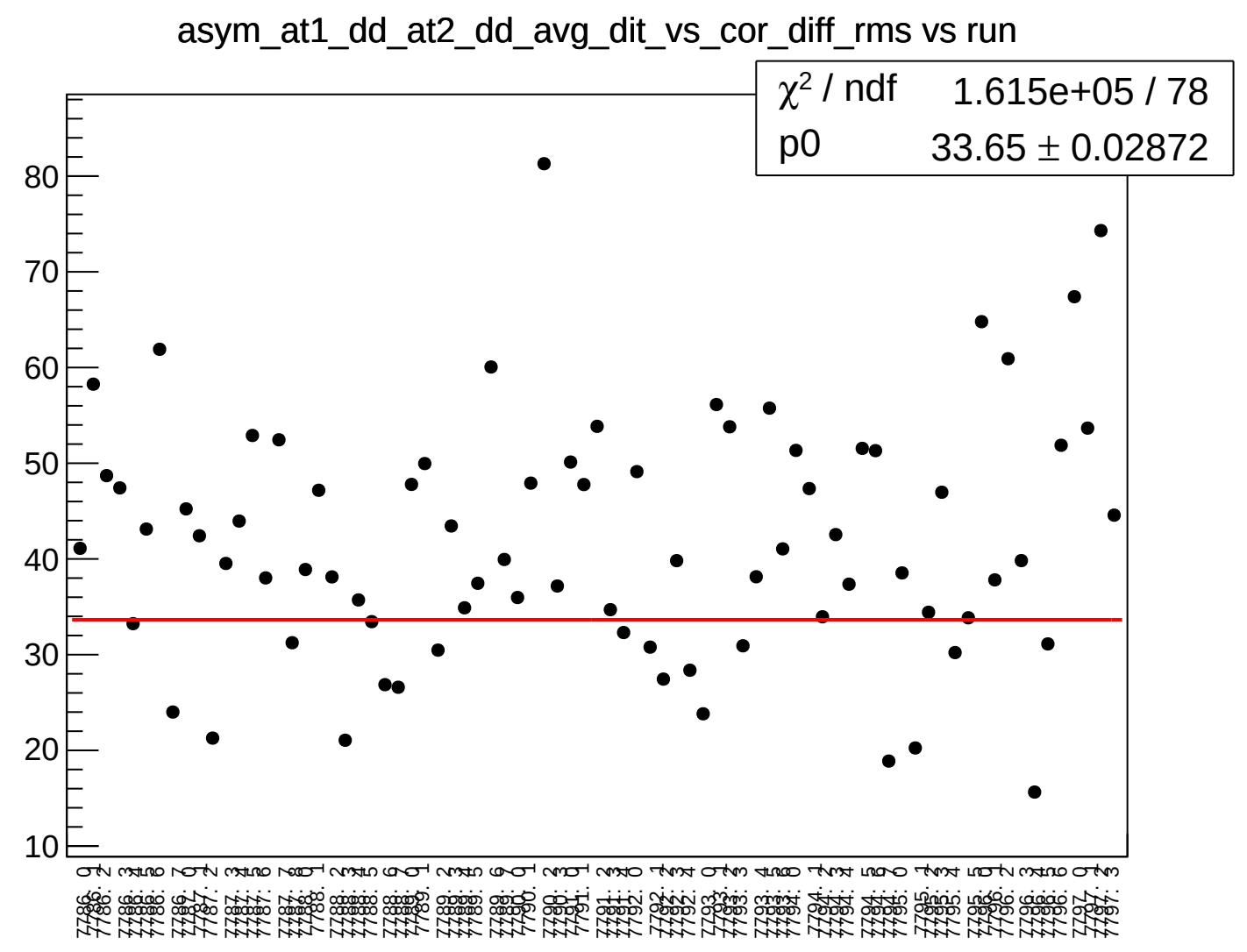

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.97 / 78
p0 1.842e−13 ± 1.913e−13
pull
Entries 79
Mean 21.42
Std Dev 27.49

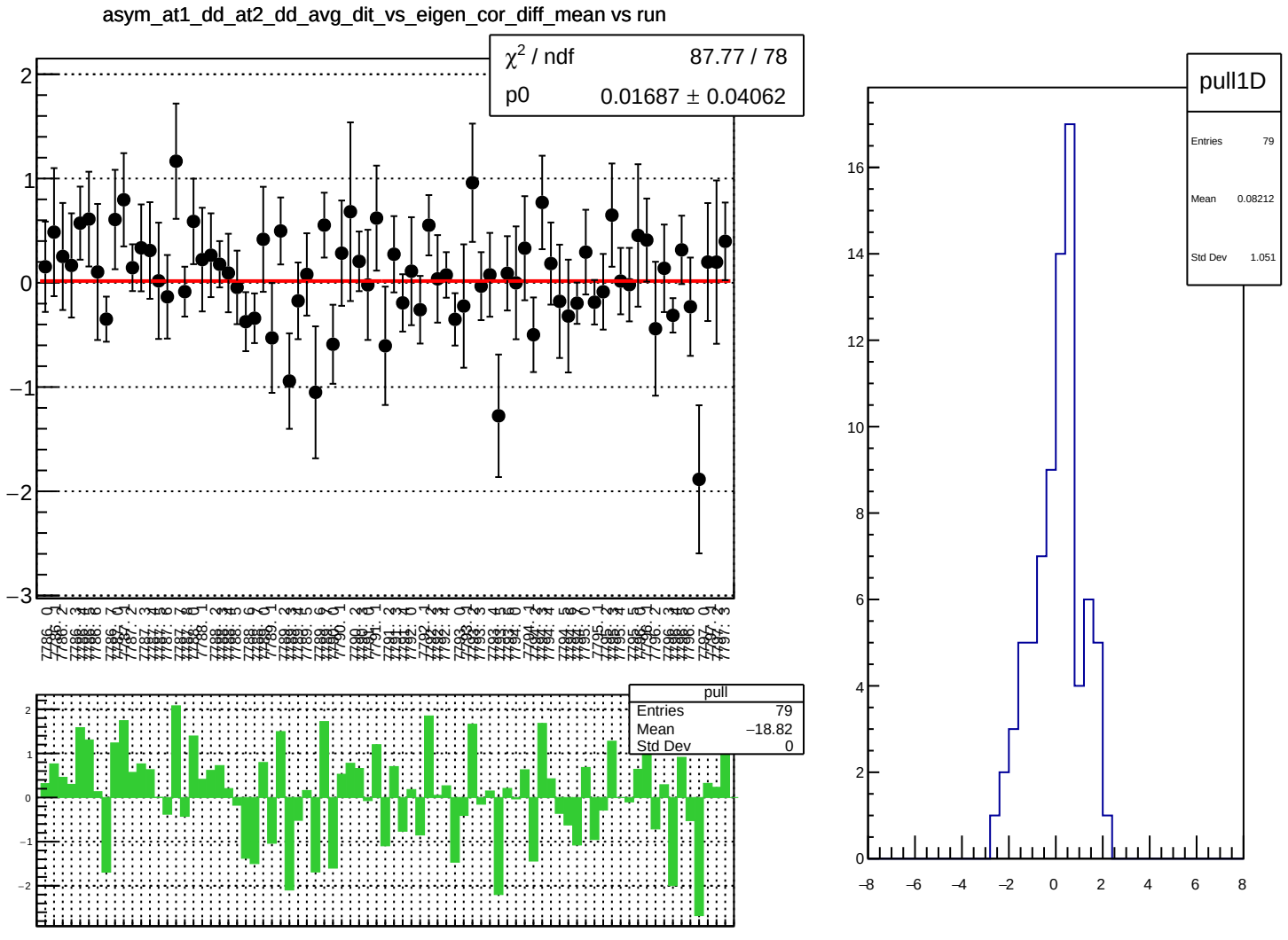

pull1D
Entries 79
Mean 0.09654
Std Dev 0.9294

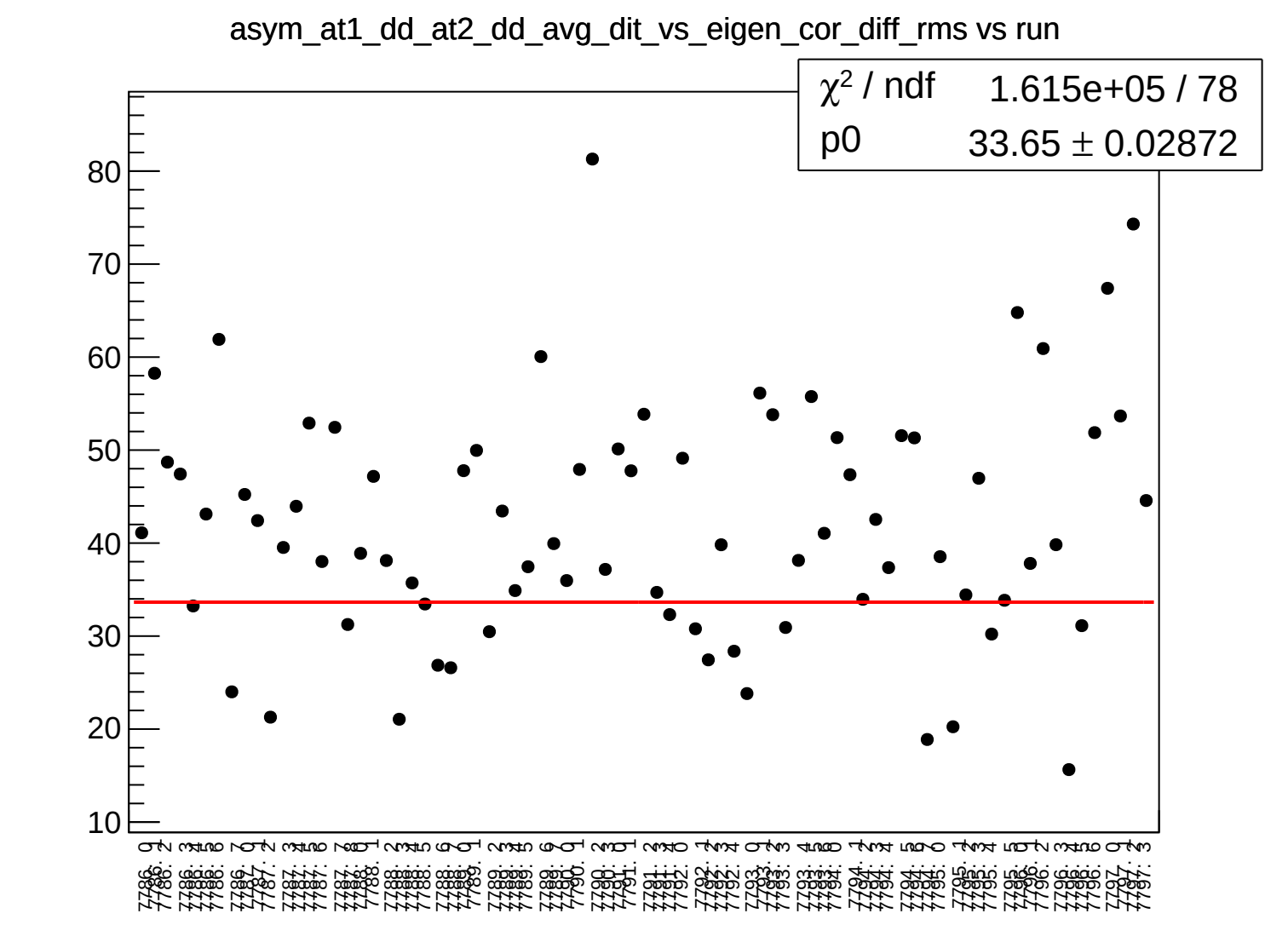

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.542e+05 / 78
p0 1.03e−10 ± 1.353e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

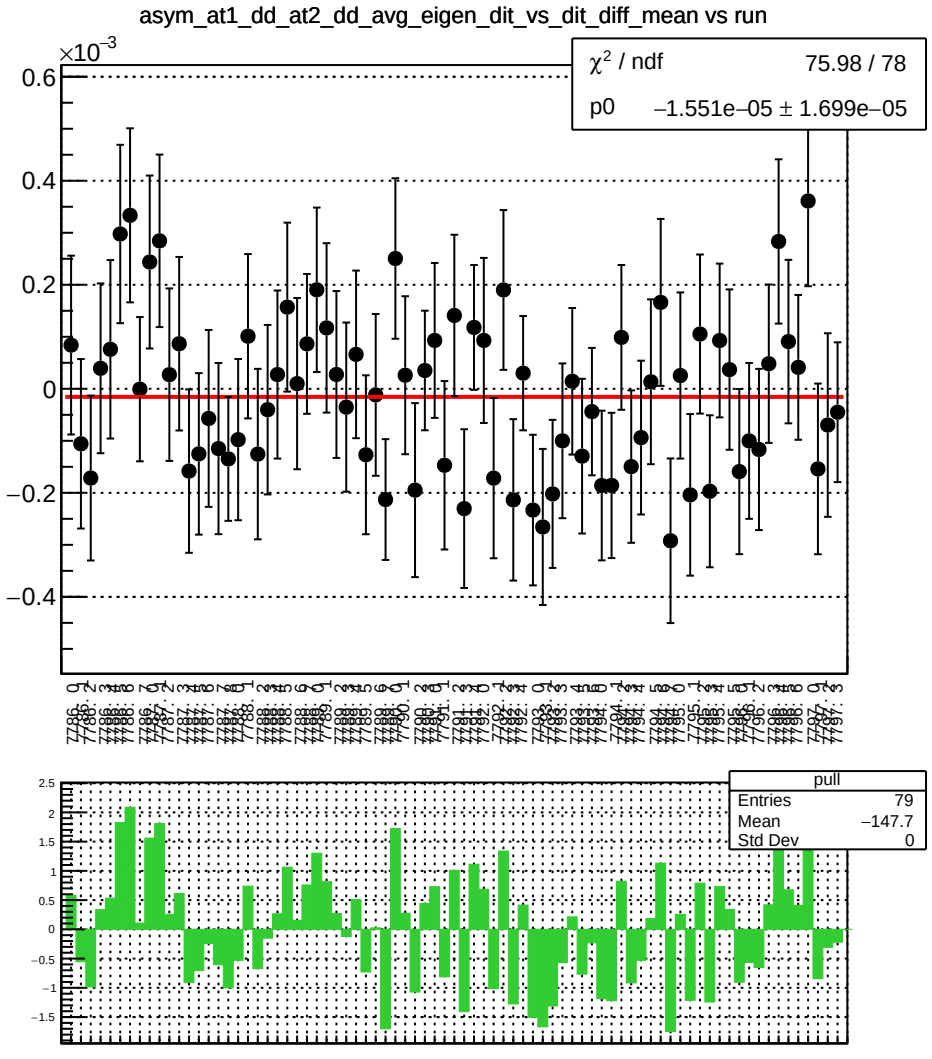

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.77 / 78
p0 0.01687 ± 0.04062
pull
Entries 79
Mean −18.82
Std Dev 0

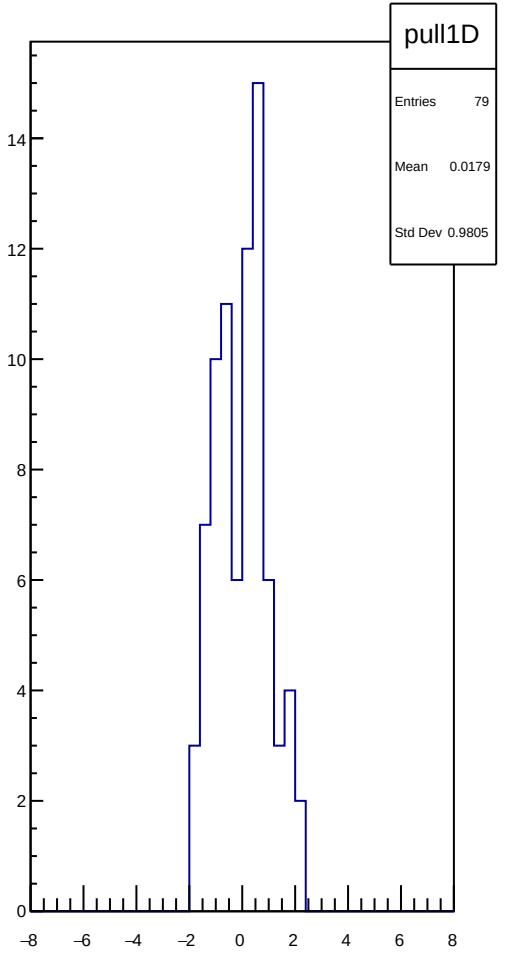

pull1D
Entries 79
Mean 0.08212
Std Dev 1.051

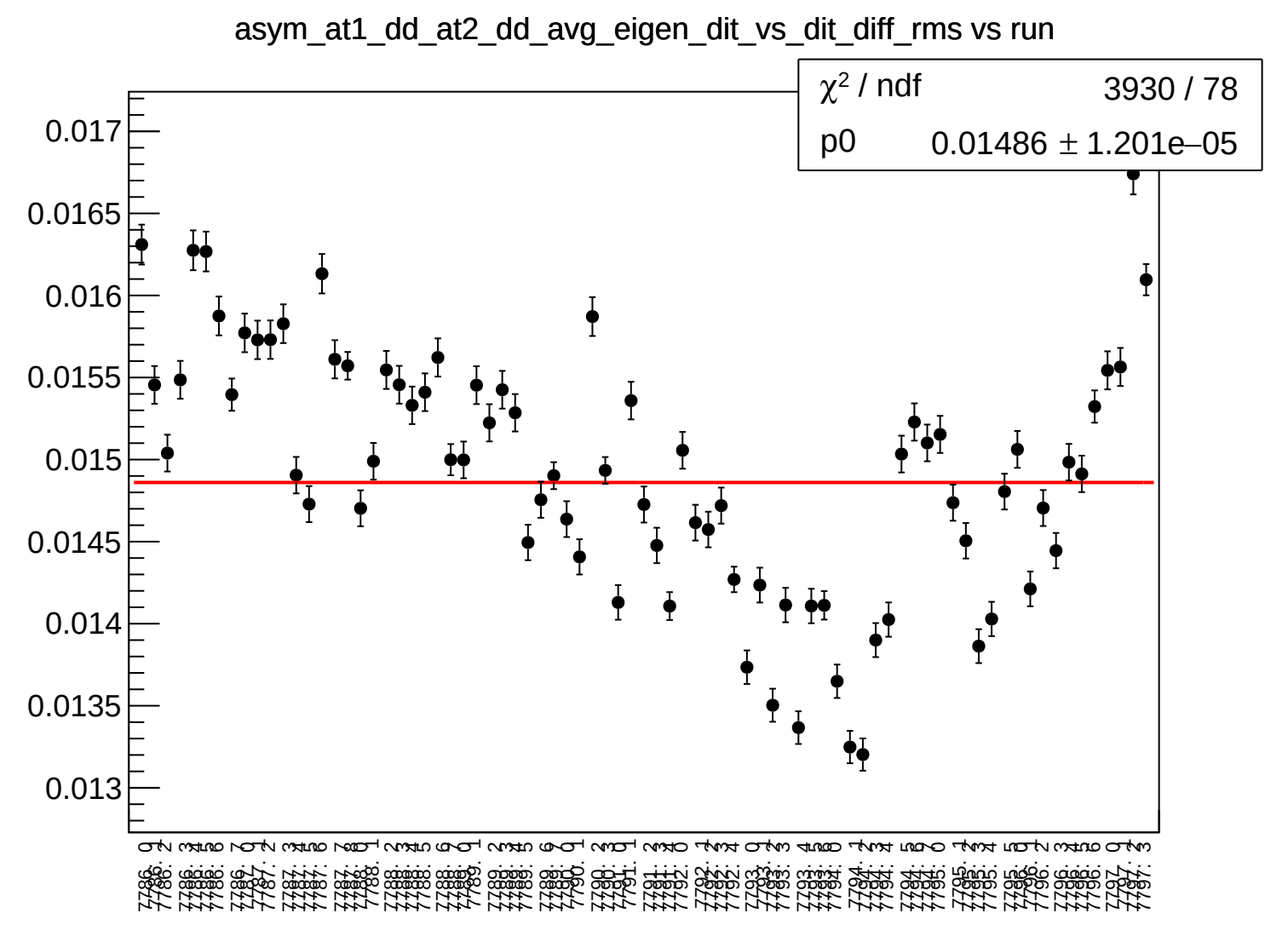

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.615e+05 / 78
p0 33.65 ± 0.02872
80
70
60
50
40
30
20
10

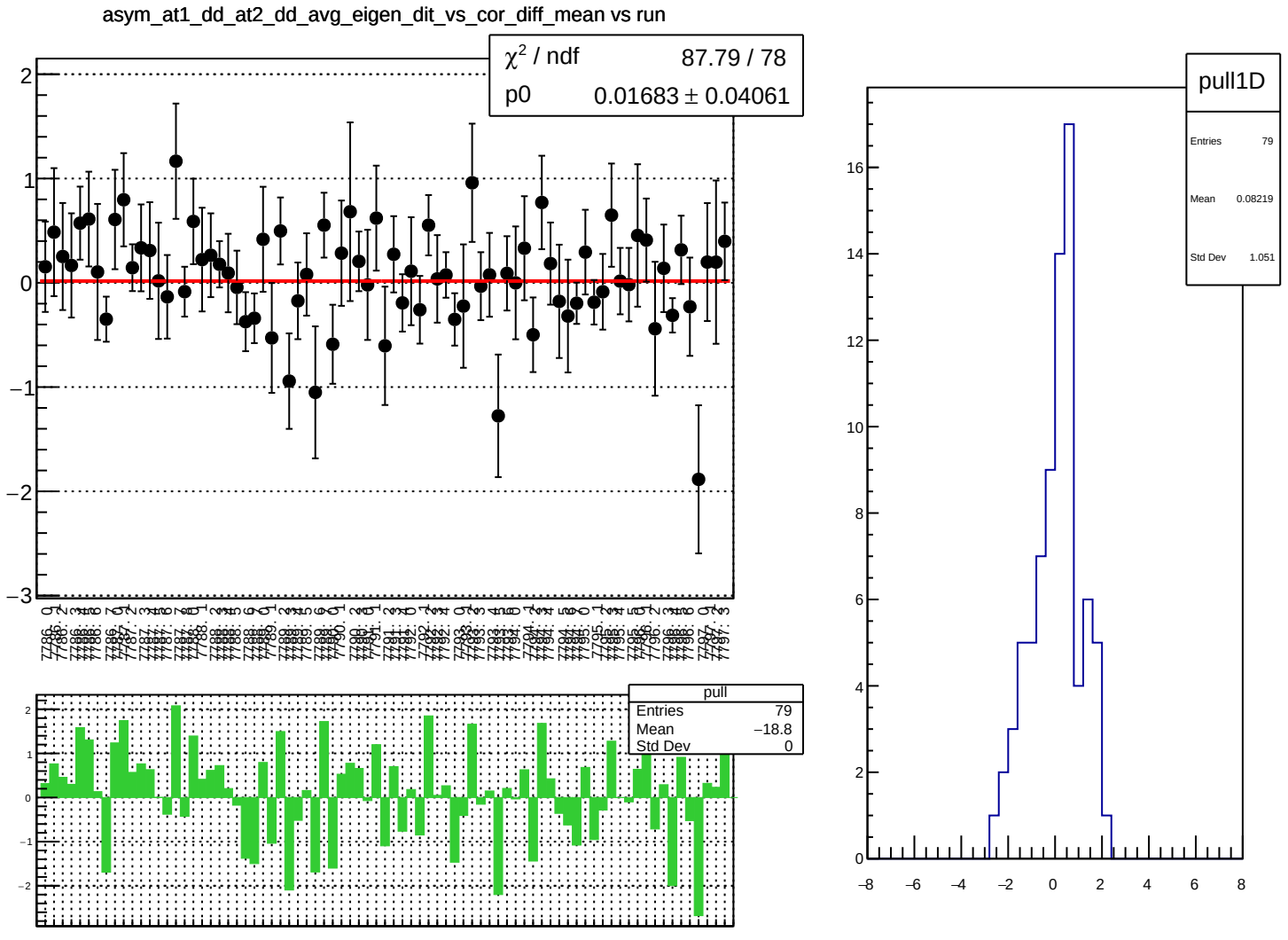

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.77 / 78
p0 0.01687 ± 0.04062
pull
Entries 79
Mean −18.82
Std Dev 0
pull1D
Entries 79
Mean 0.08212
Std Dev 1.051

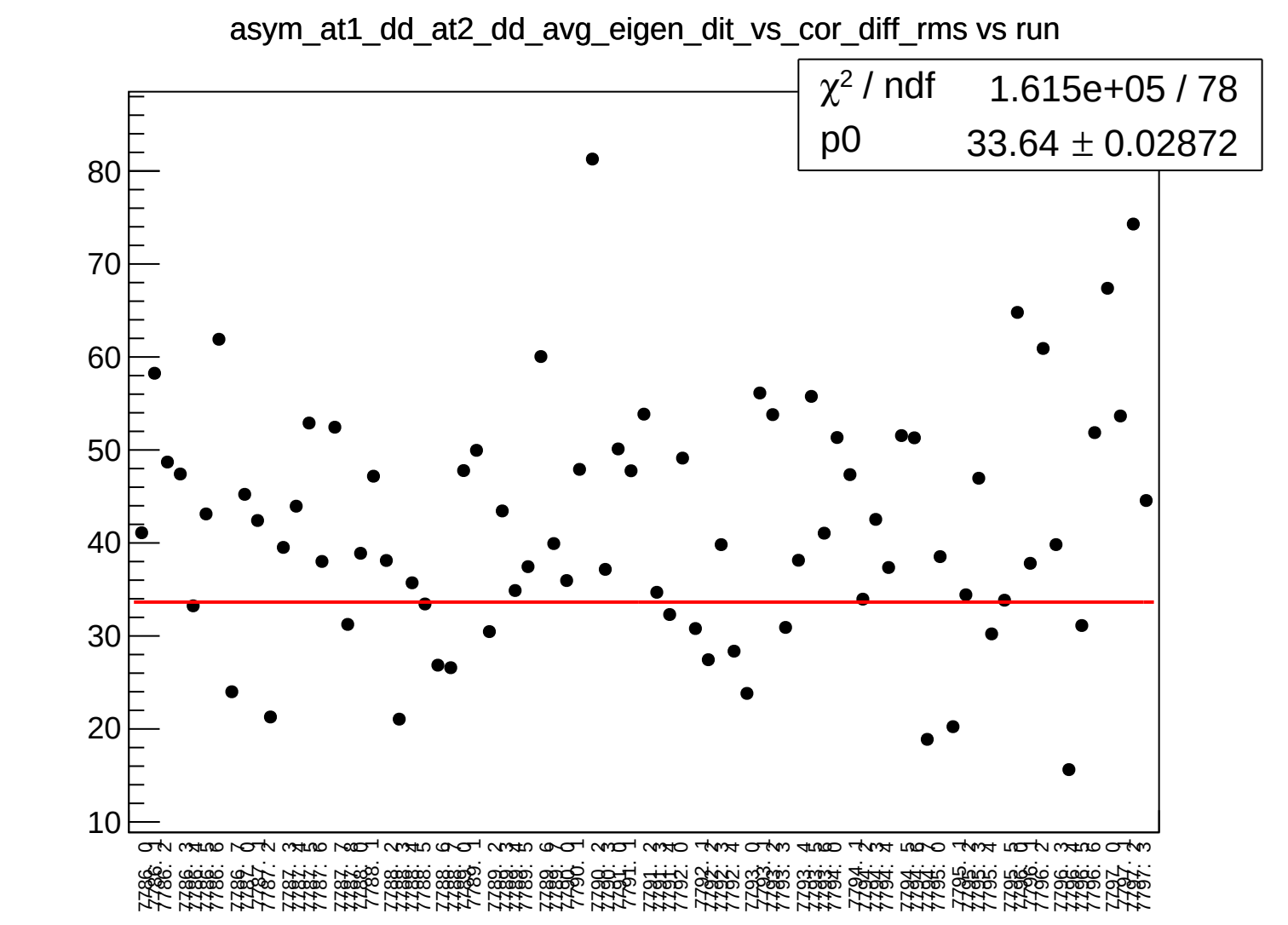

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.615e+05 / 78
p0 33.65 ± 0.02872
80
70
60
50
40
30
20
10

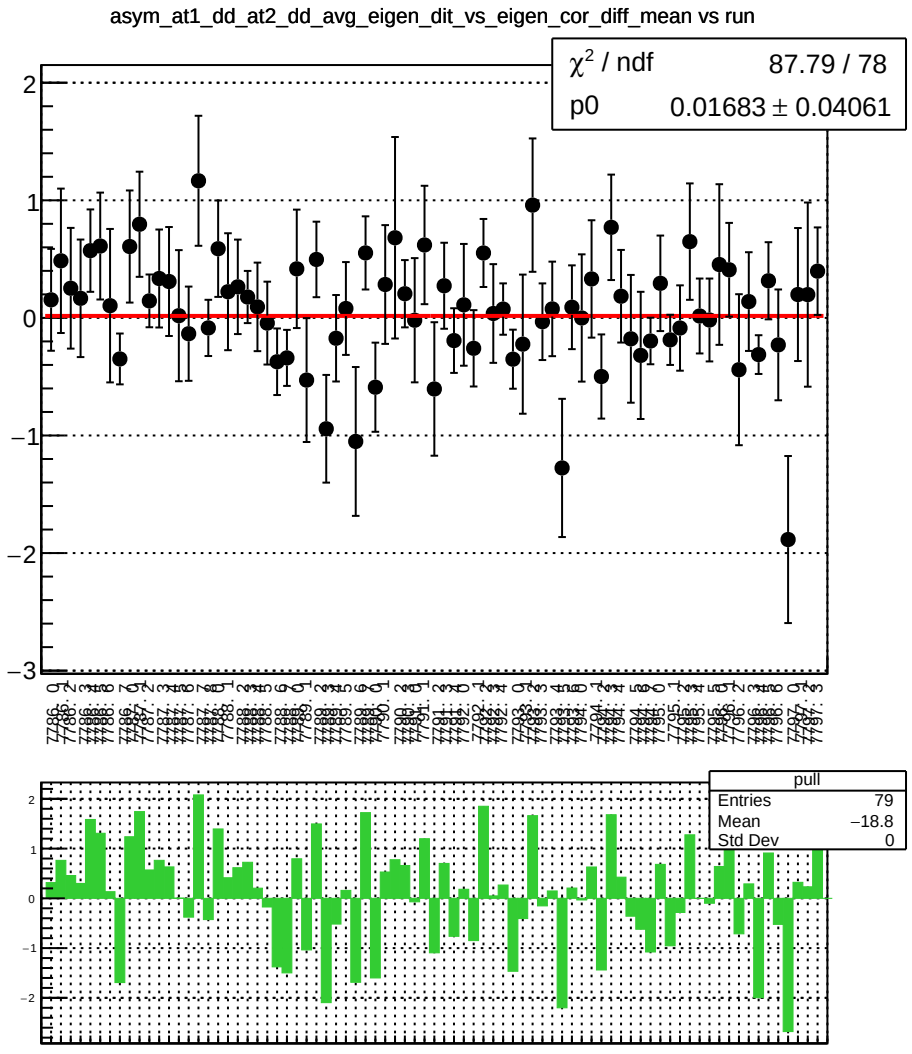

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.98 / 78
p0 −1.551e−05 ± 1.699e−05
pull
Entries 79
Mean −147.7
Std Dev 0

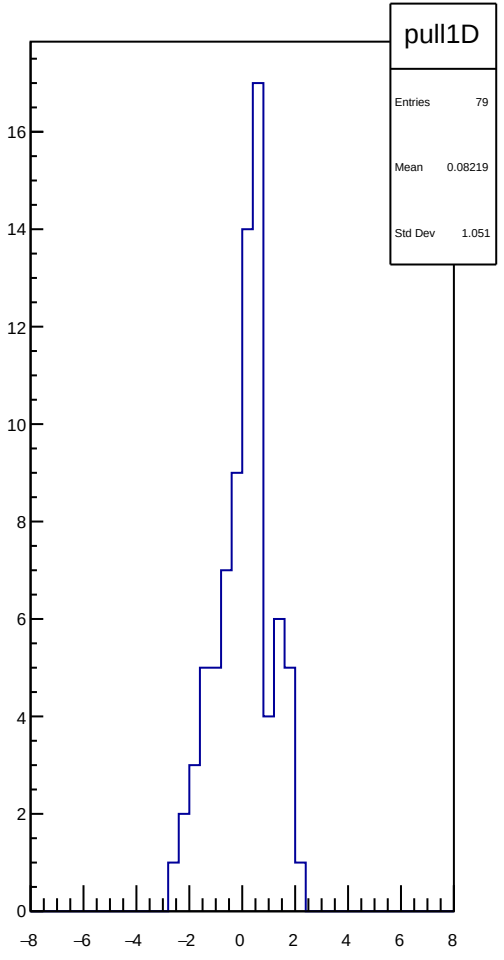

pull1D
Entries 79
Mean 0.0179
Std Dev 0.9805

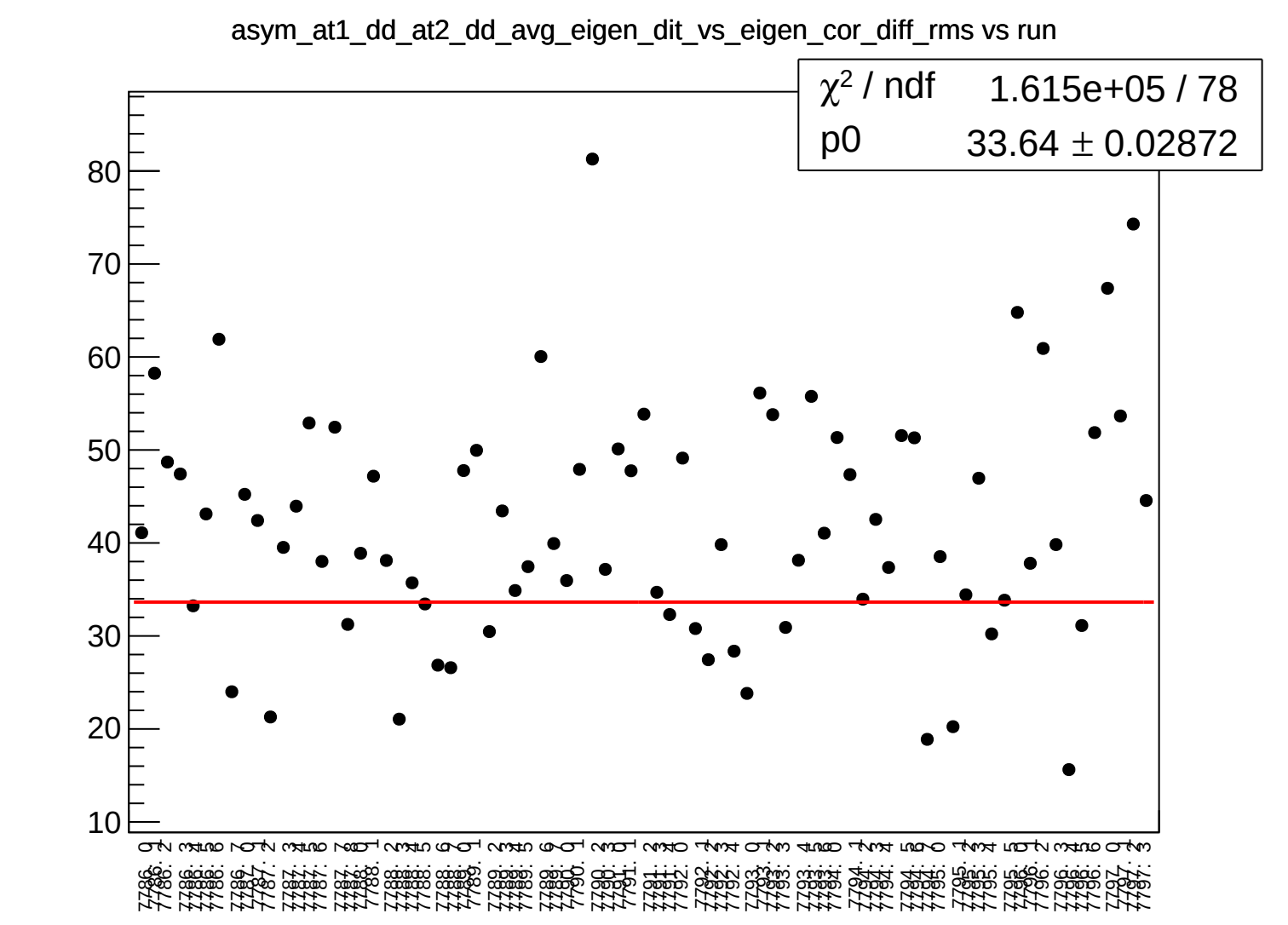

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3930 / 78
p0 0.01486 ± 1.201e−05
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013

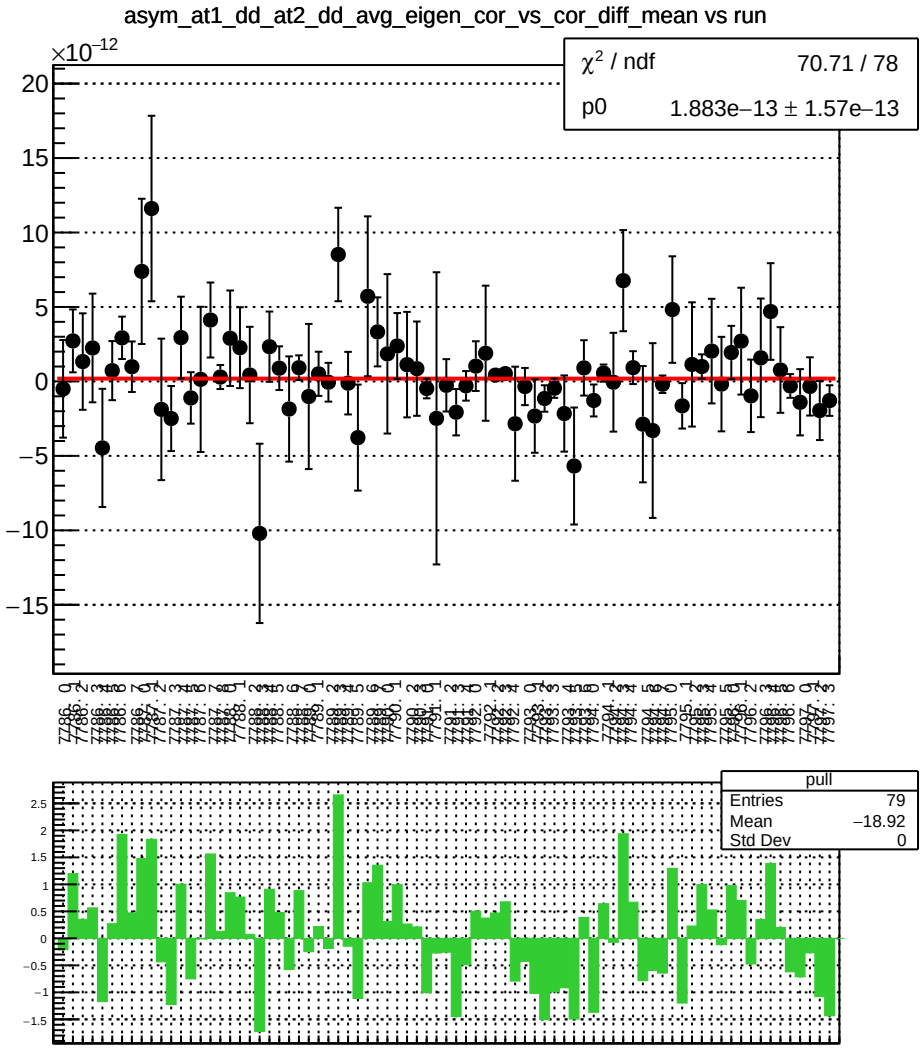

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.79 / 78
p0 0.01683 ± 0.04061
pull
Entries 79
Mean −18.8
Std Dev 0
pull1D
Entries 79
Mean 0.08219
Std Dev 1.051

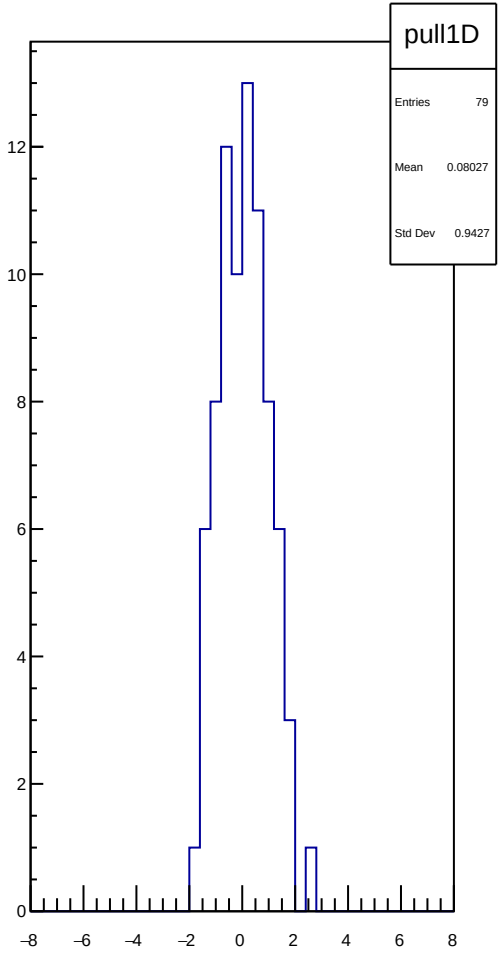

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.615e+05 / 78
p0 33.64 ± 0.02872
80
70
60
50
40
30
20
10

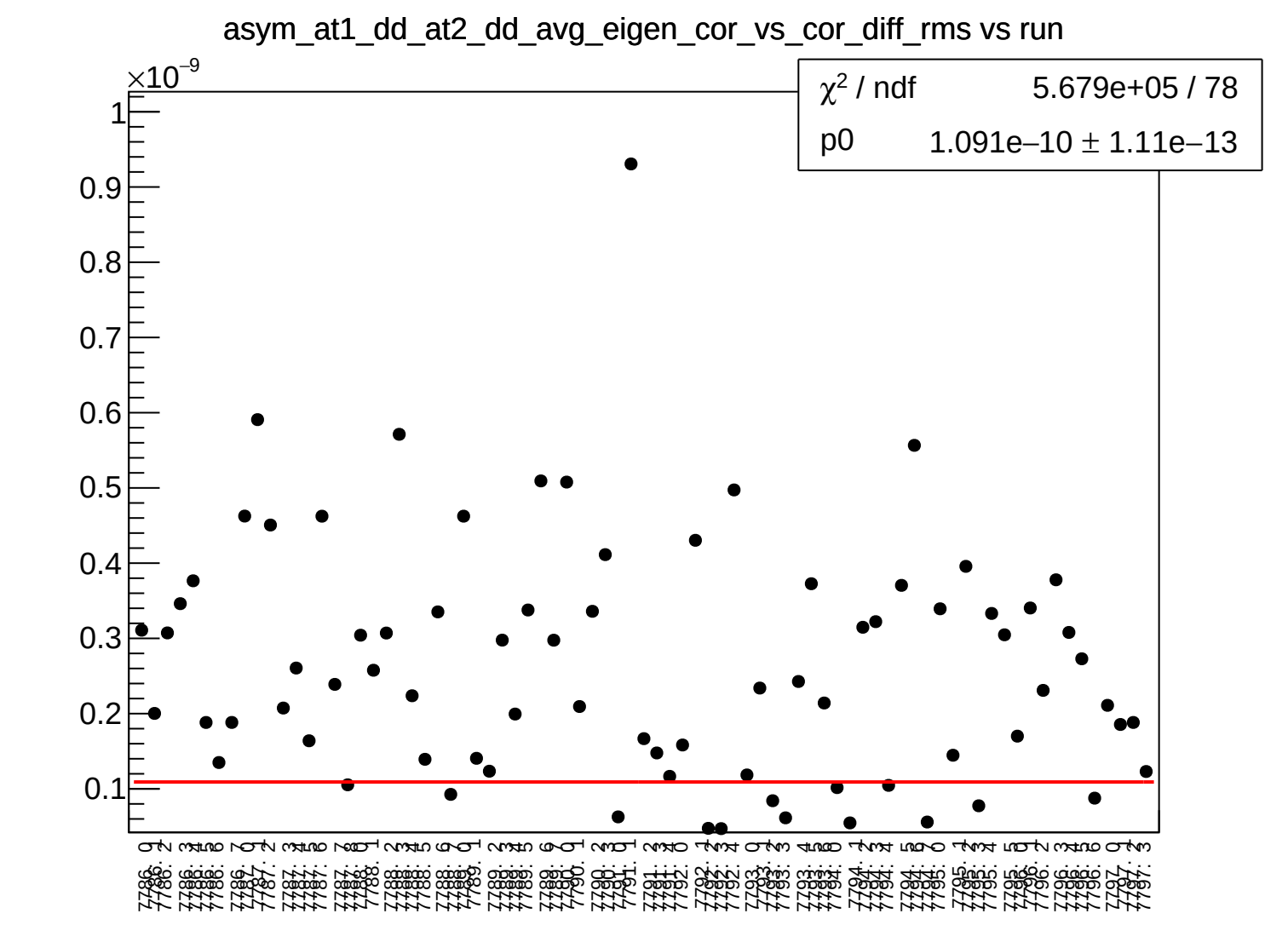

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.79 / 78
p0 0.01683 ± 0.04061
pull
Entries 79
Mean −18.8
Std Dev 0

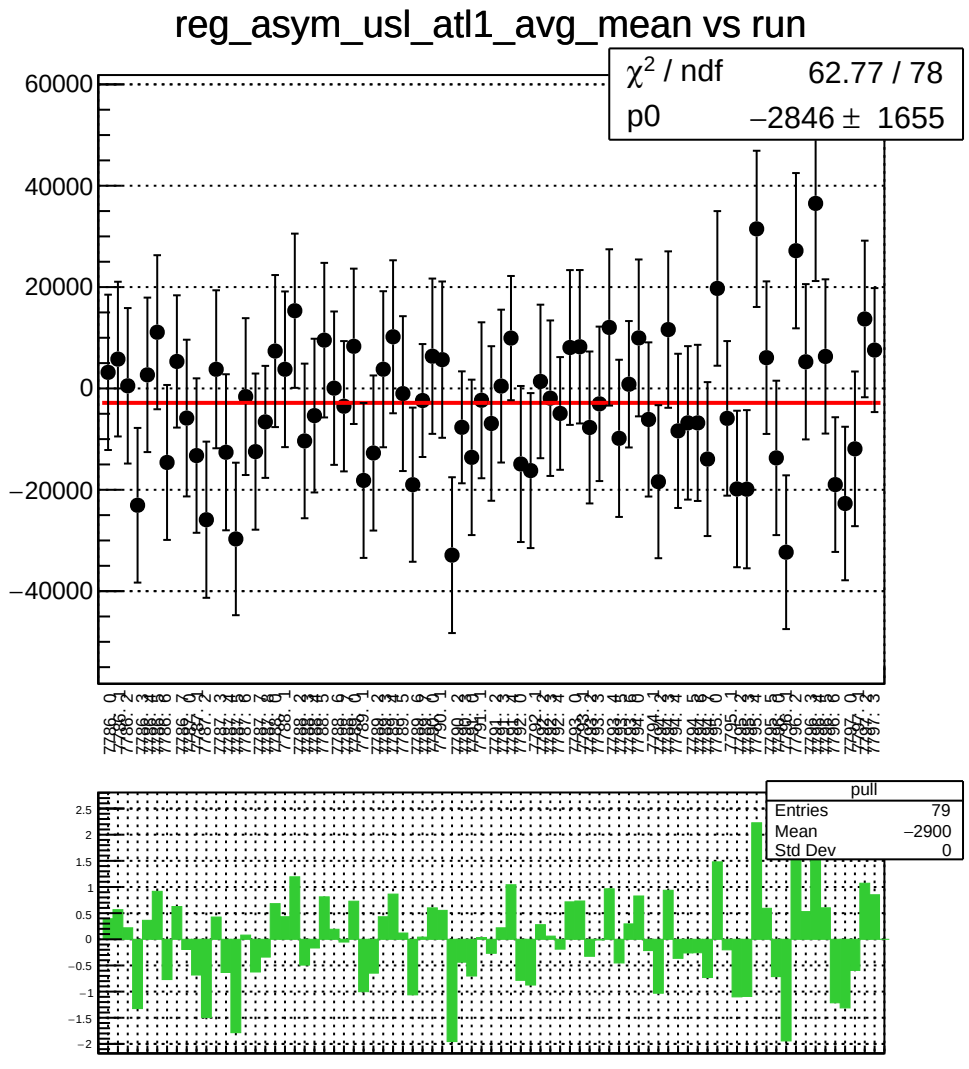

pull1D
Entries 79
Mean 0.08219
Std Dev 1.051

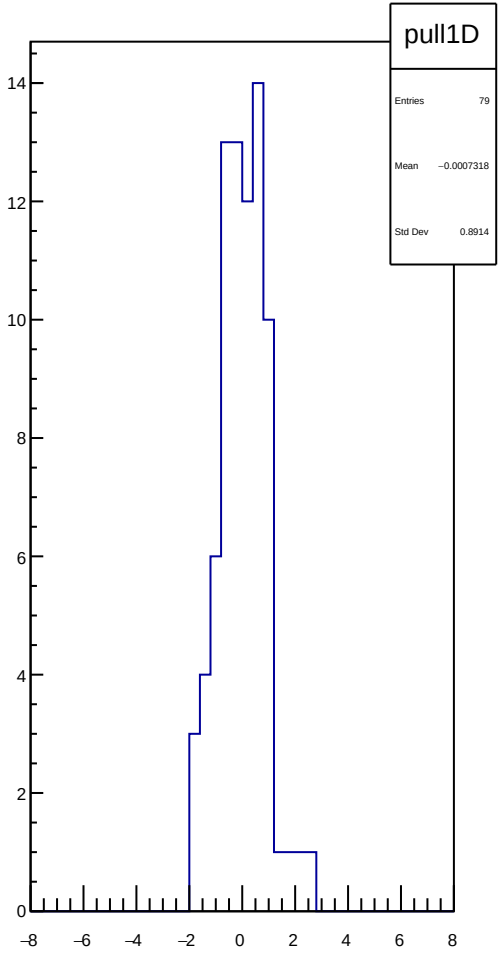

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.615e+05 / 78
p0 33.64 ± 0.02872
80
70
60
50
40
30
20
10

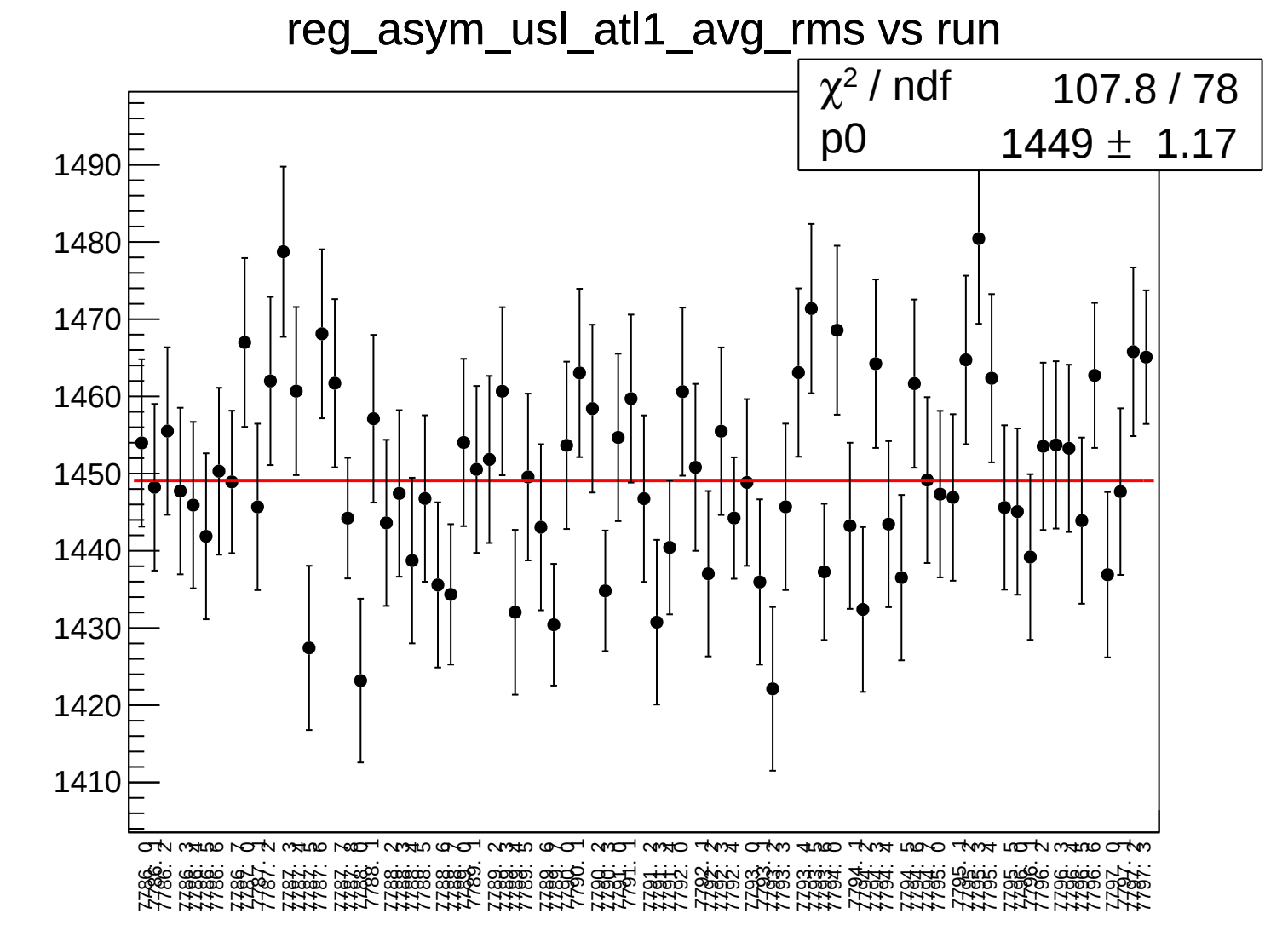

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.71 / 78
p0 1.883e−13 ± 1.57e−13
pull
Entries 79
Mean −18.92
Std Dev 0

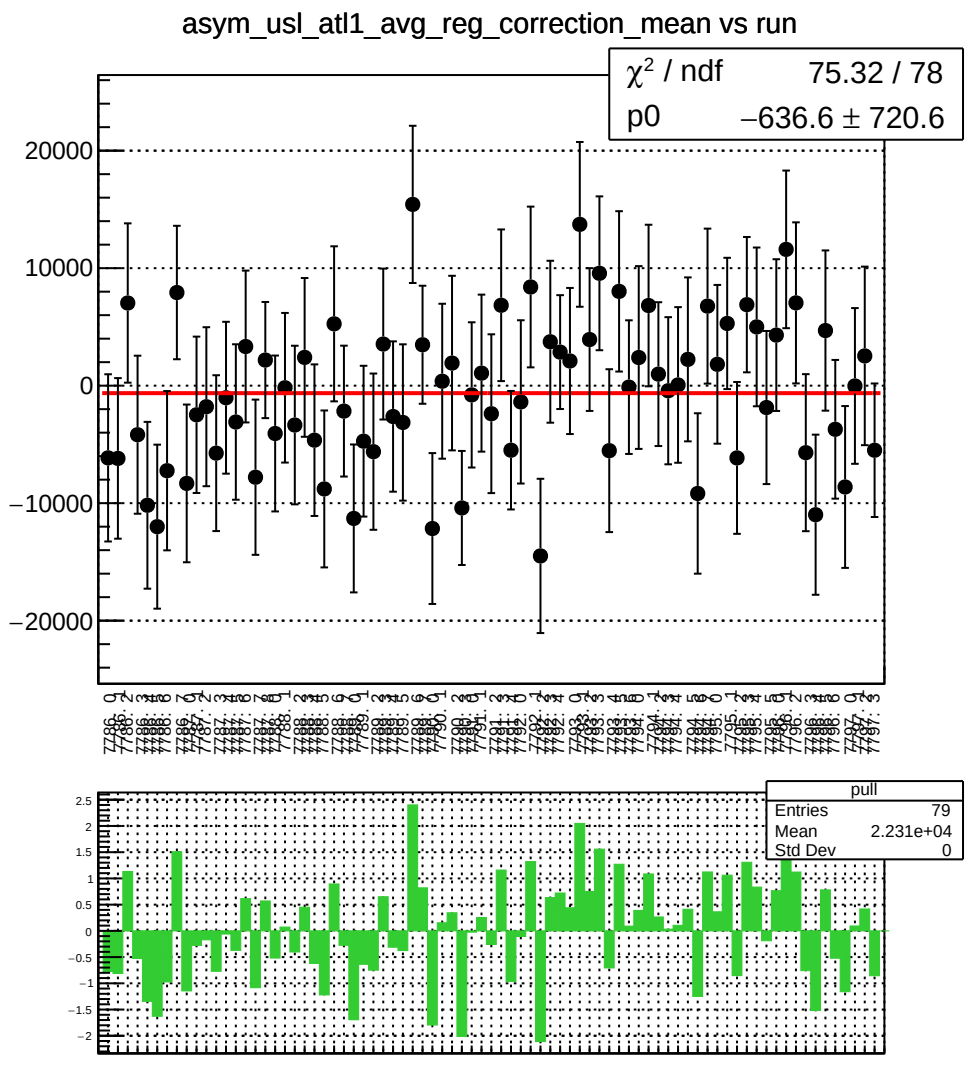

pull1D
Entries 79
Mean 0.08027
Std Dev 0.9427

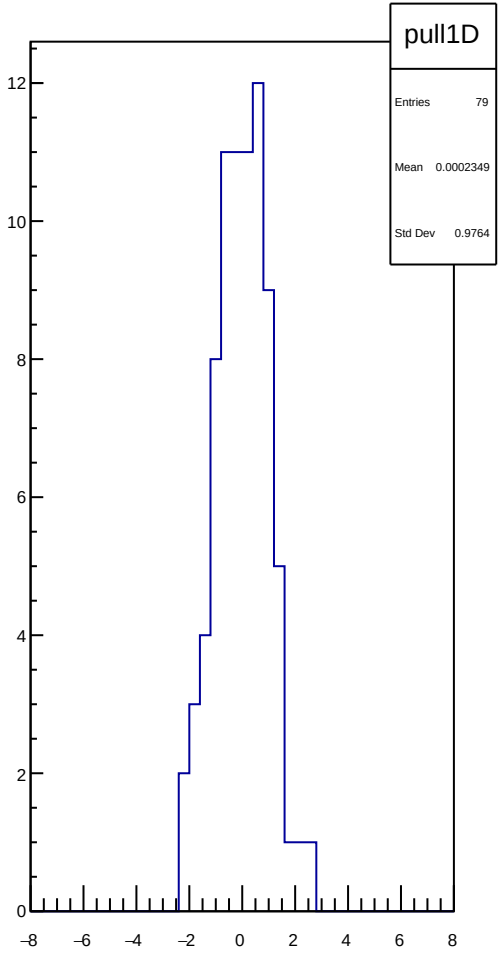

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.679e+05 / 78
p0 1.091e−10 ± 1.11e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

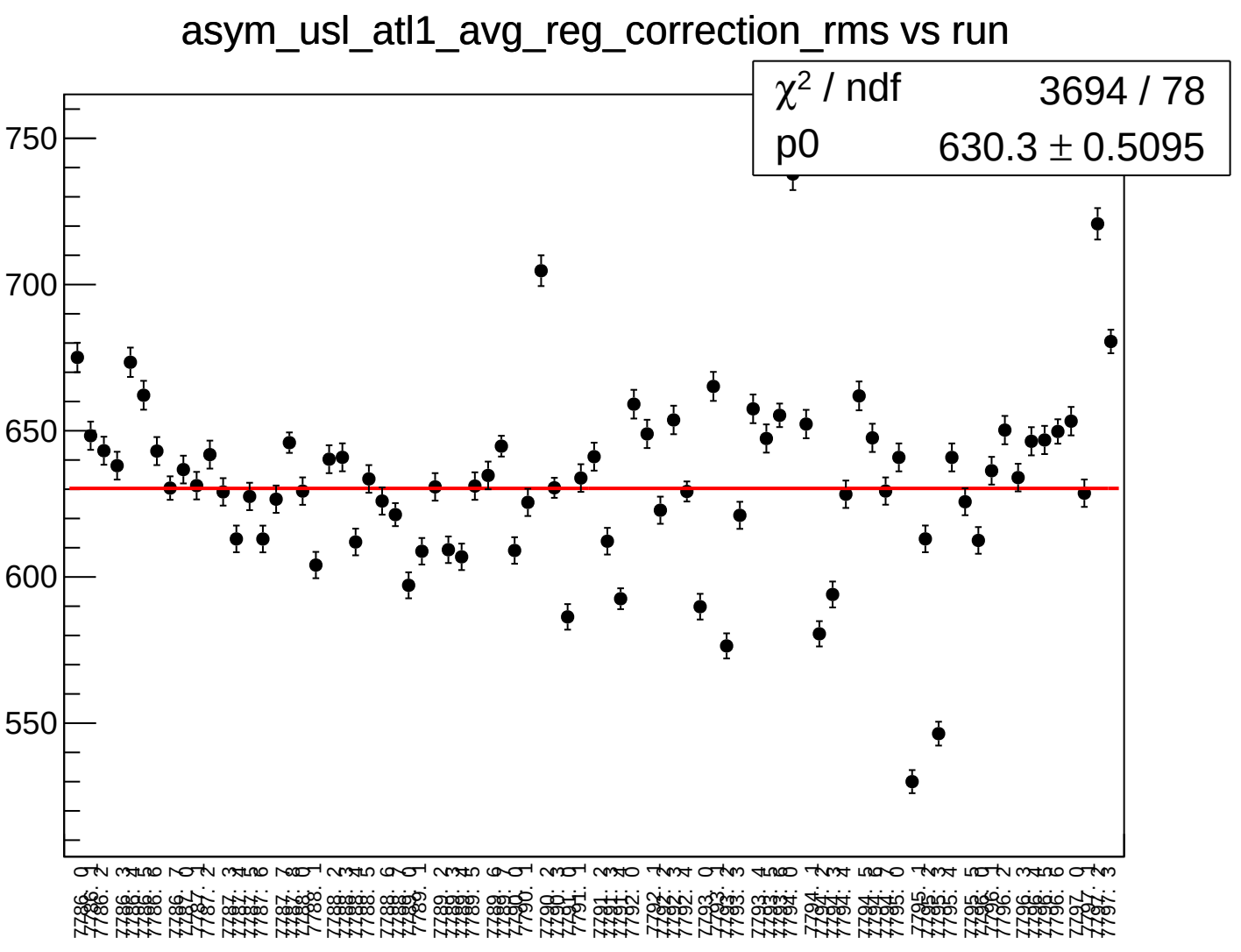

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 62.77 / 78
p0 −2846 ± 1655
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −2900
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

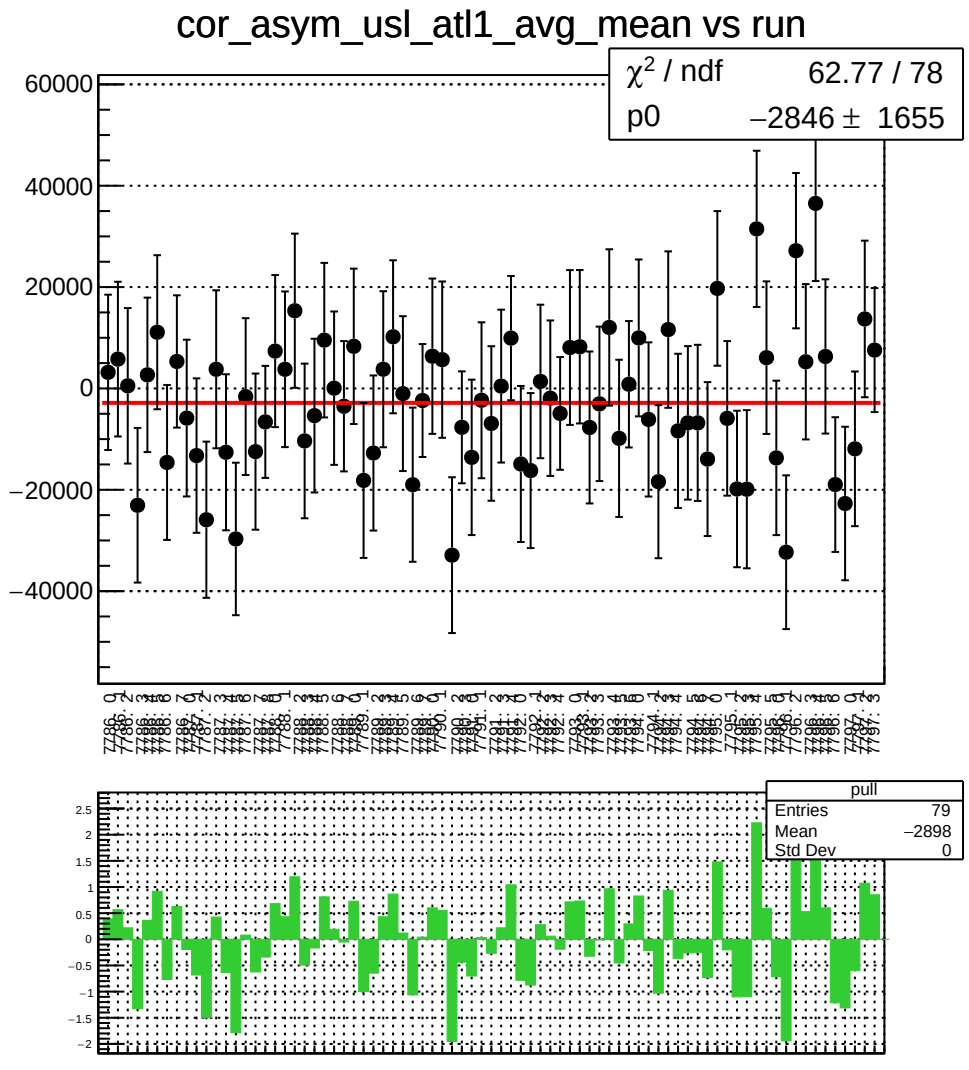

pull1D
Entries 79
Mean −0.0007318
Std Dev 0.8914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

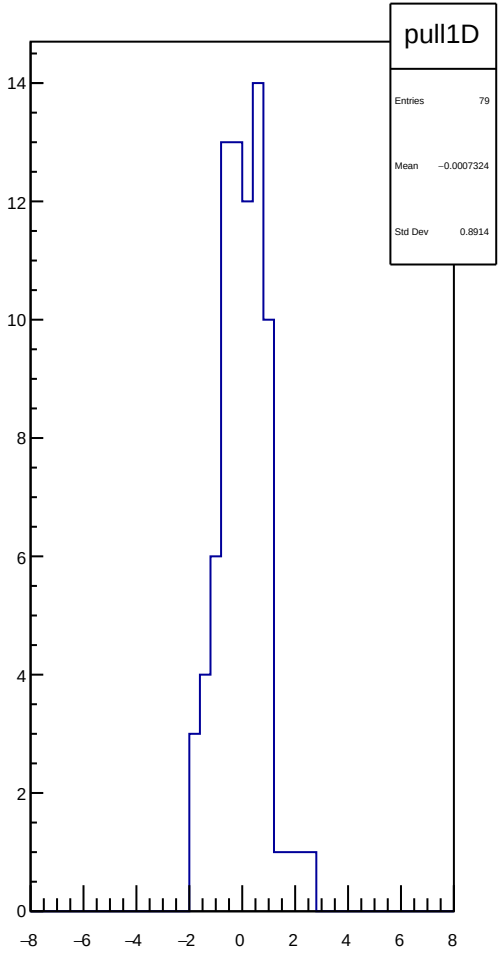

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 107.8 / 78
p0 1449 ± 1.17
1490
1480
1470
1460
1450
1440
1430
1420
1410

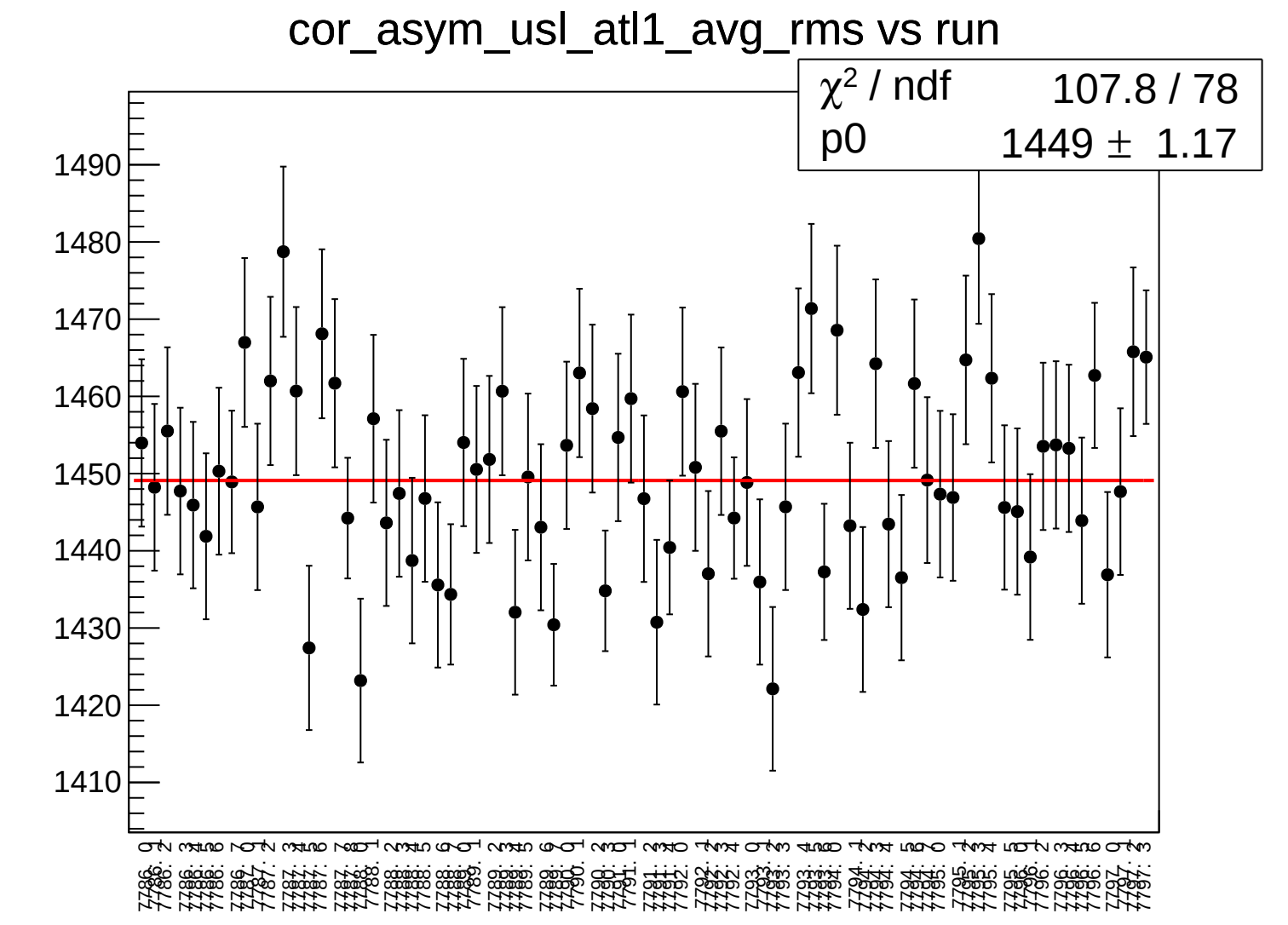

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 75.32 / 78
p0 −636.6 ± 720.6
20000
10000
0
−10000
−20000
pull
Entries 79
Mean 2.231e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

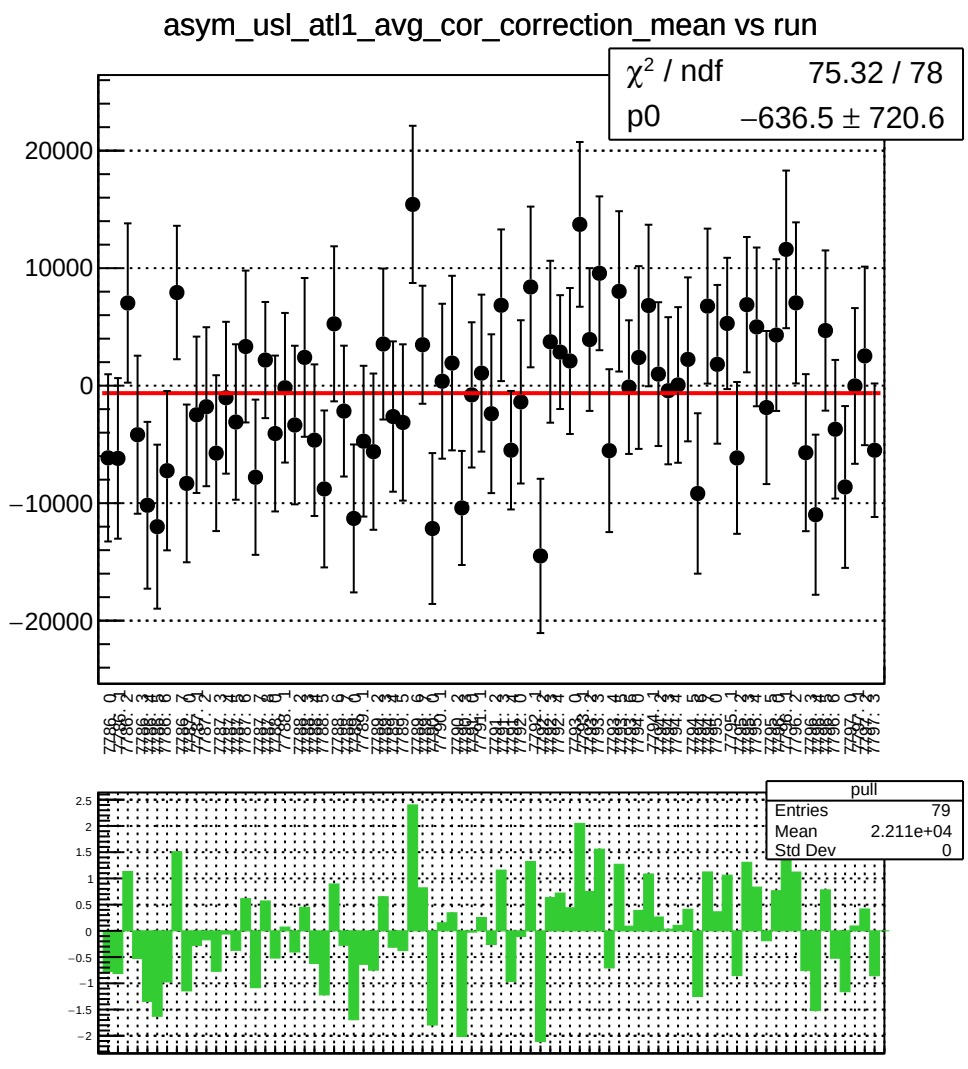

pull1D
Entries 79
Mean 0.0002349
Std Dev 0.9764
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

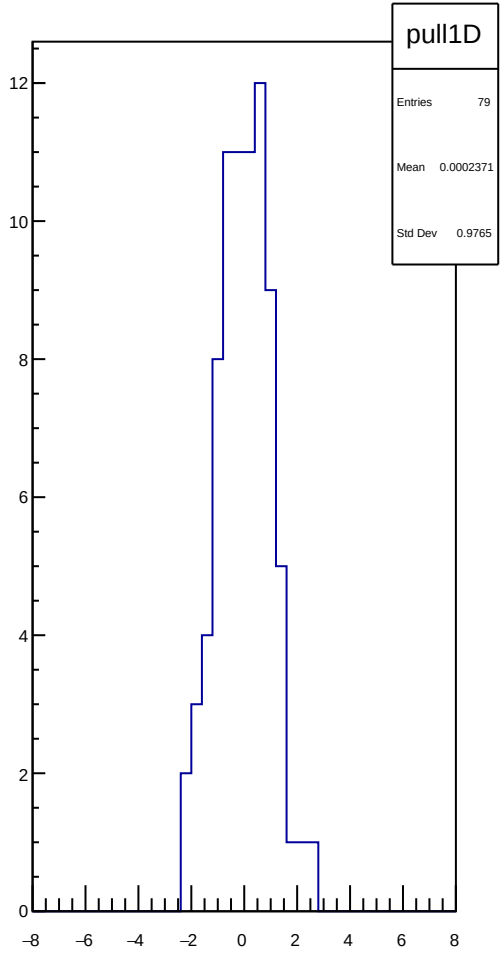

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 3694 / 78
p0 630.3 ± 0.5095
750
700
650
600
550

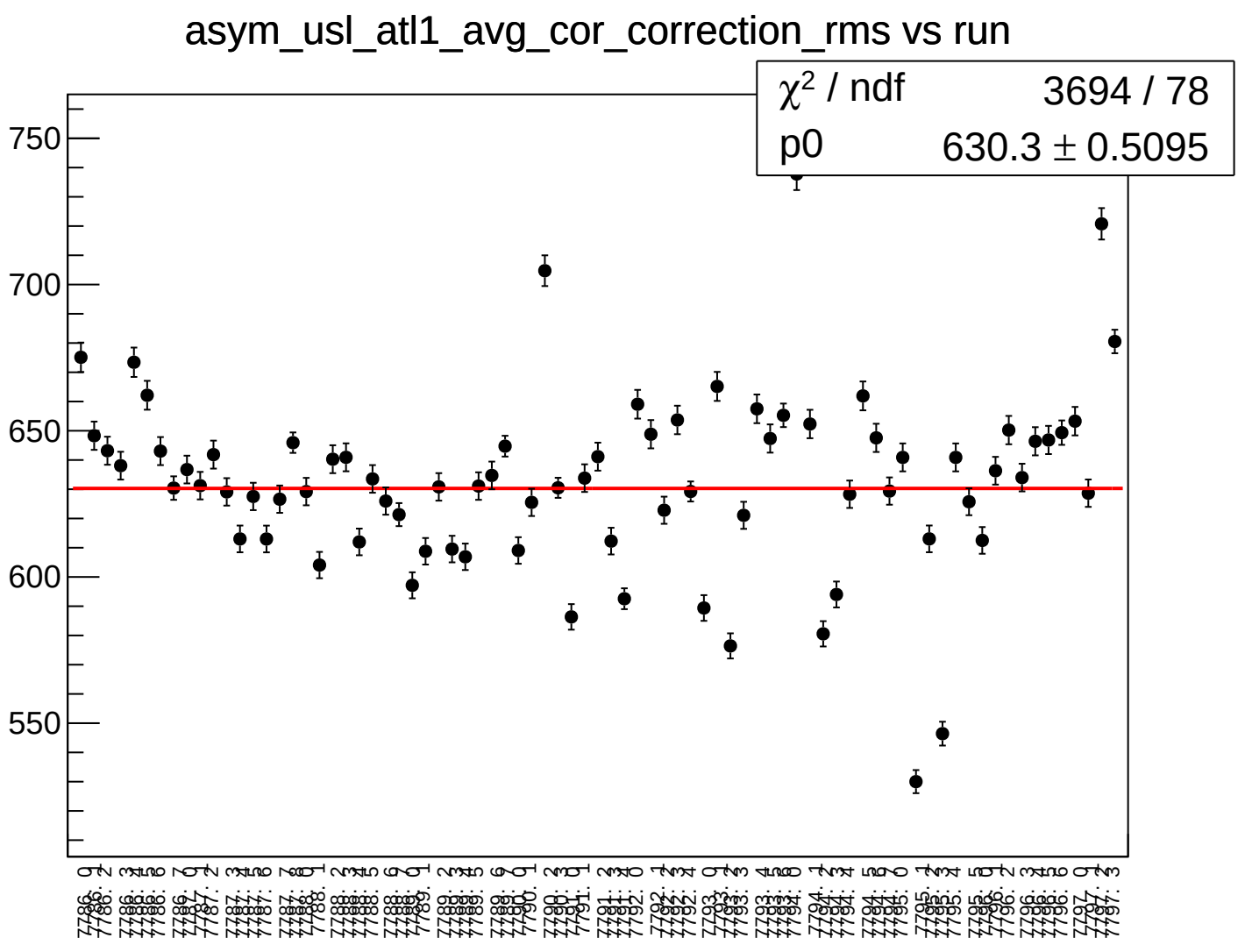

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 62.77 / 78
p0 −2846 ± 1655
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −2898
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

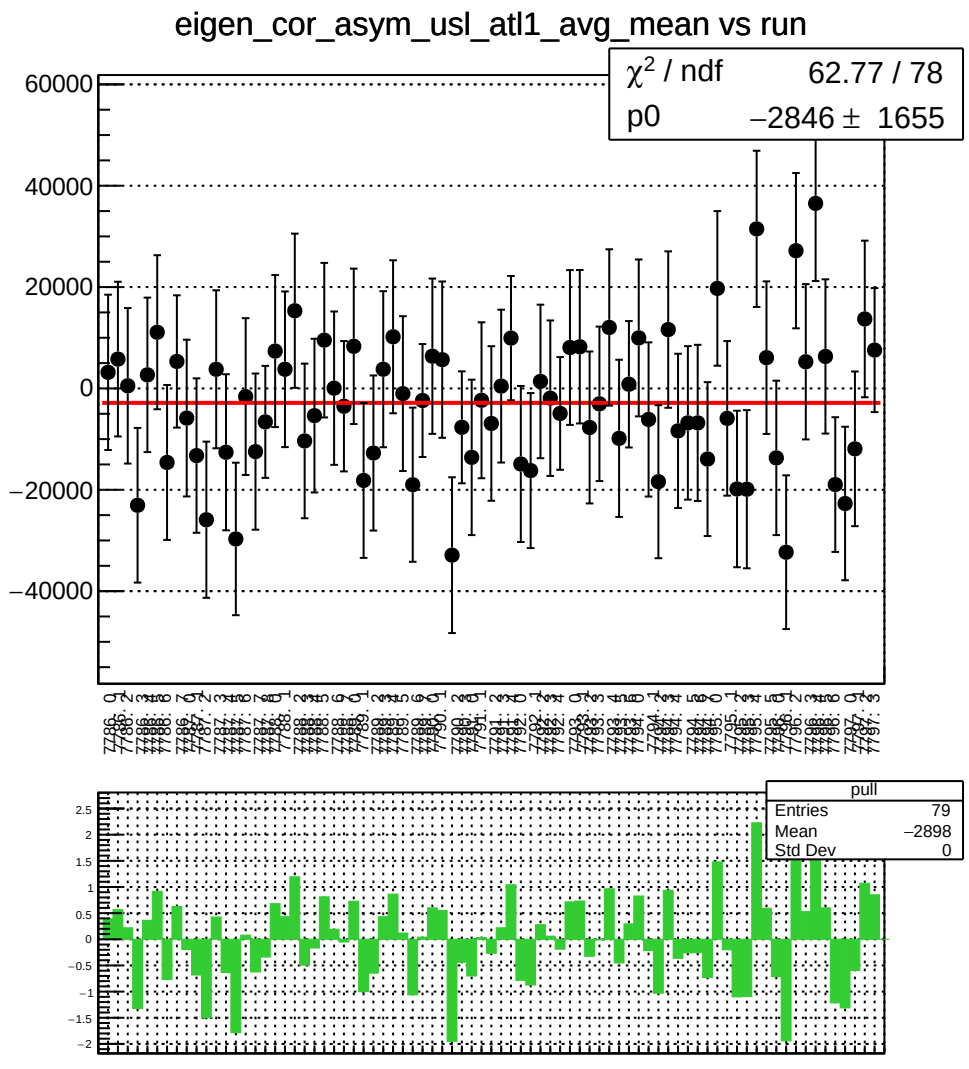

pull1D
Entries 79
Mean −0.0007324
Std Dev 0.8914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

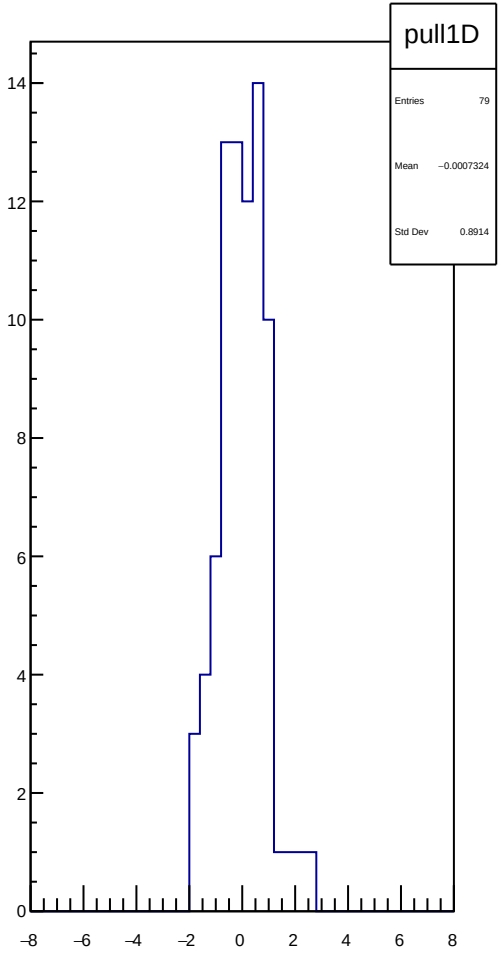

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 107.8 / 78
p0 1449 ± 1.17
1490
1480
1470
1460
1450
1440
1430
1420
1410

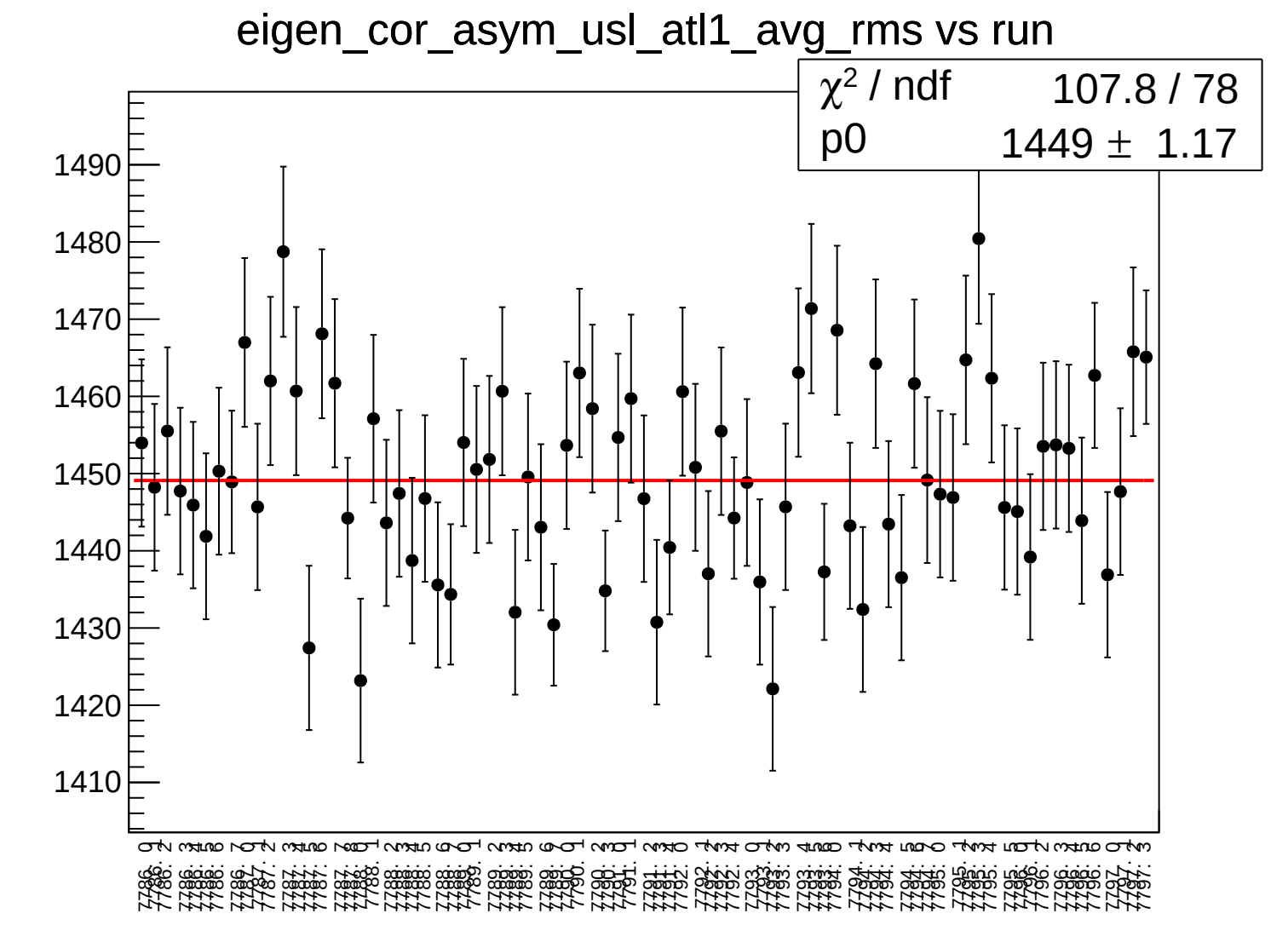

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 75.32 / 78
p0 −636.5 ± 720.6
20000
10000
0
−10000
−20000
pull
Entries 79
Mean 2.211e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

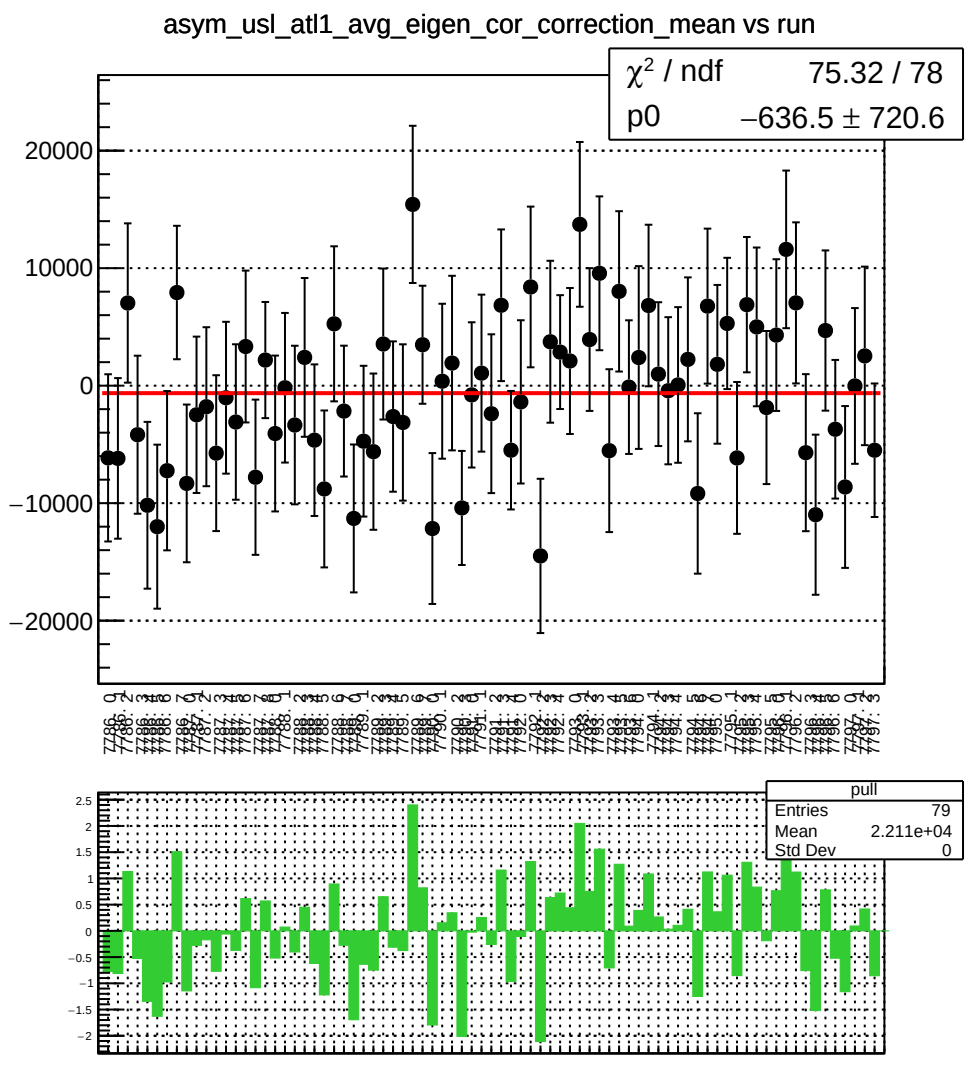

pull1D
Entries 79
Mean 0.0002371
Std Dev 0.9765
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

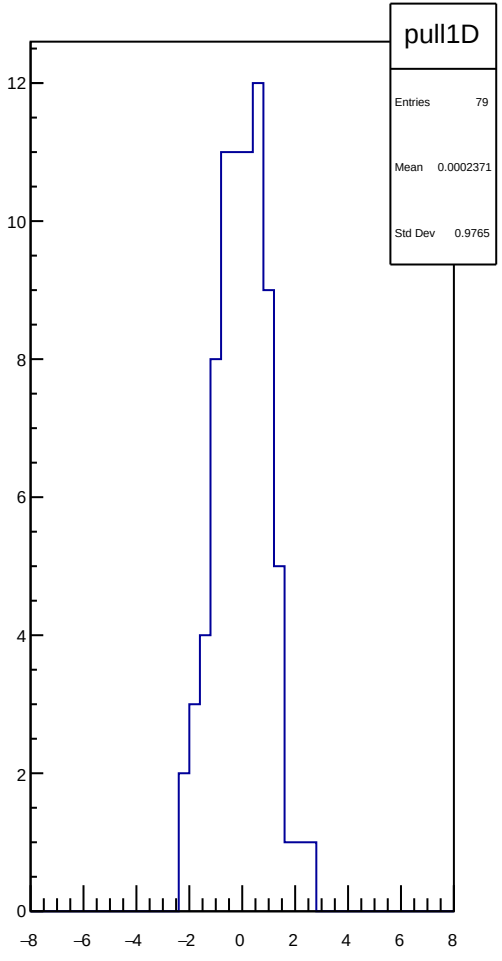

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 3694 / 78
p0 630.3 ± 0.5095
750
700
650
600
550

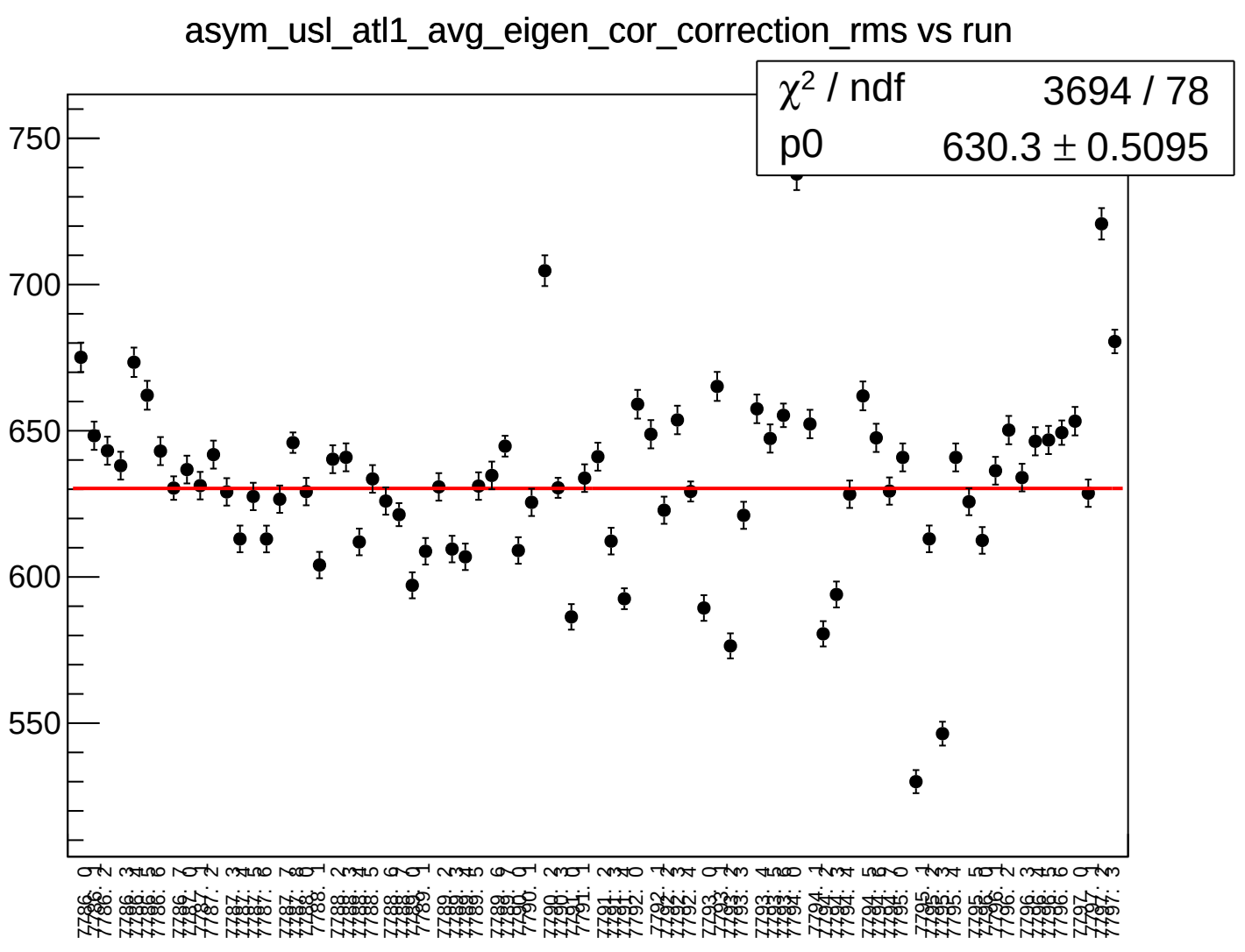

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 62.77 / 78
p0 −2846 ± 1655
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −2898
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

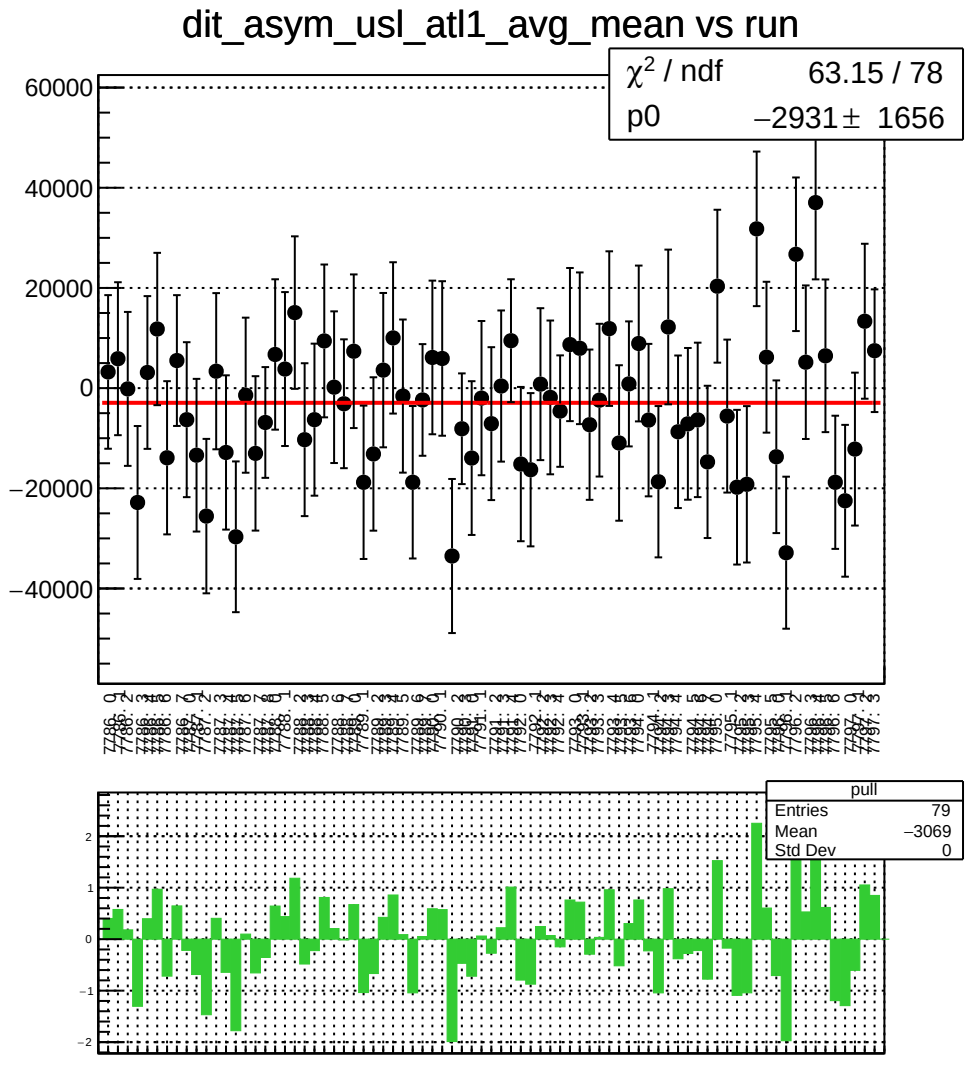

pull1D
Entries 79
Mean −0.0007324
Std Dev 0.8914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

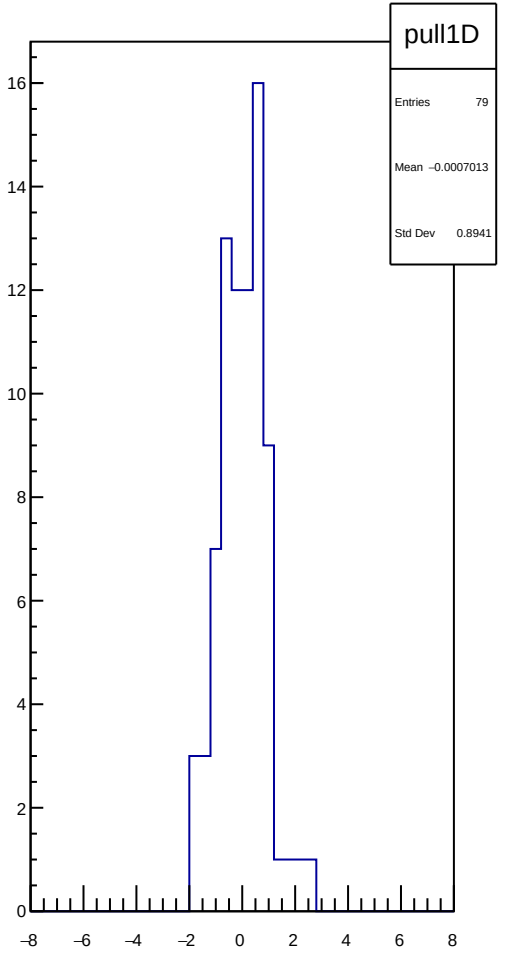

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 107.8 / 78
p0 1449 ± 1.17
1490
1480
1470
1460
1450
1440
1430
1420
1410

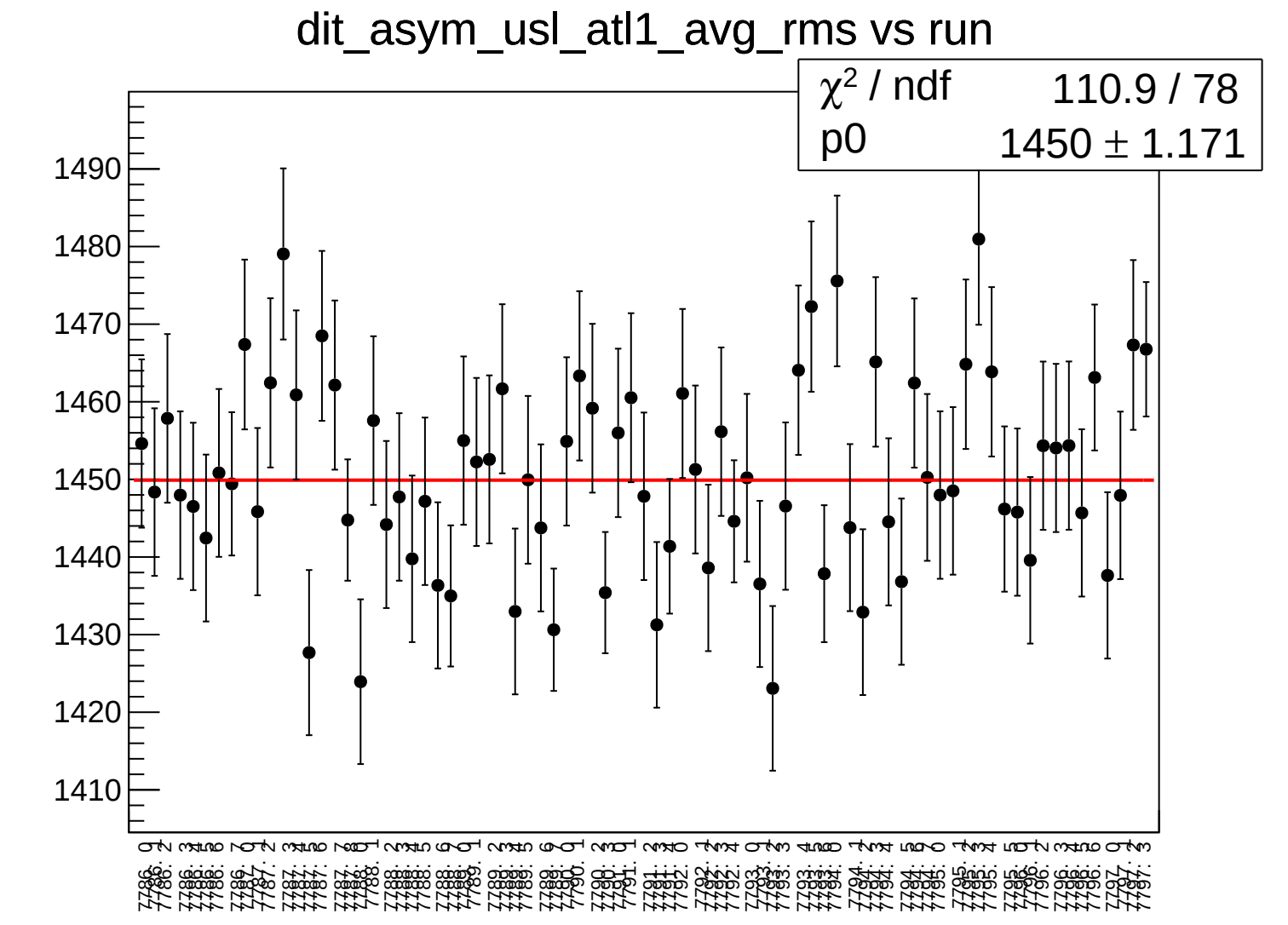

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.32 / 78
p0 −636.5 ± 720.6
20000
10000
0
−10000
−20000
pull
Entries 79
Mean 2.211e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

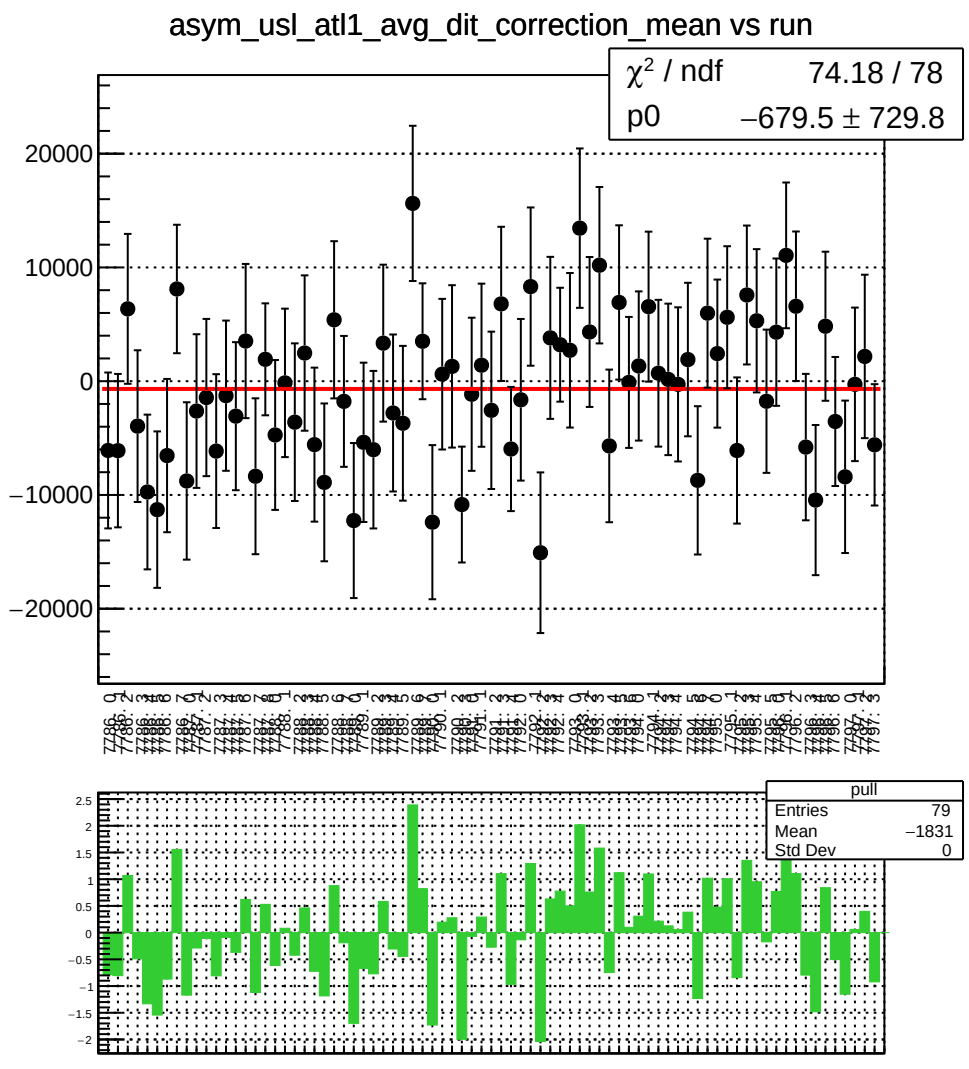

pull1D
Entries 79
Mean 0.0002371
Std Dev 0.9765
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

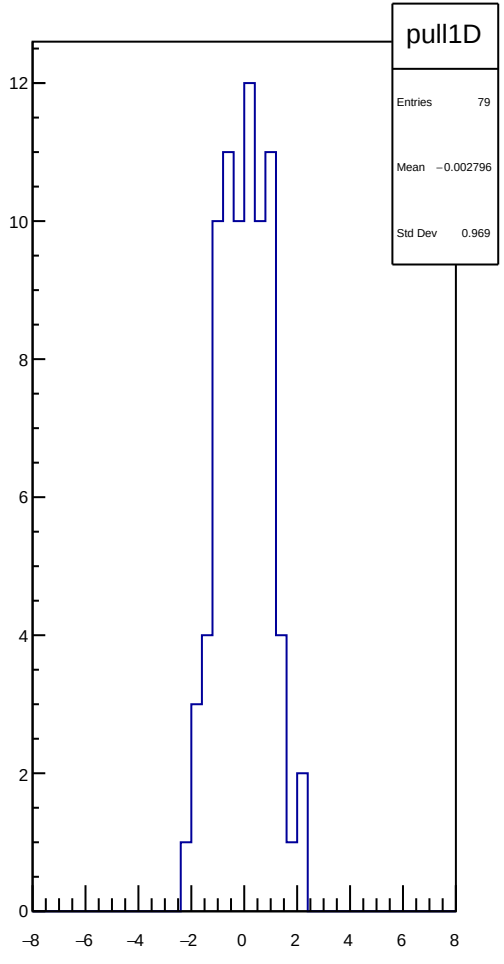

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3694 / 78
p0 630.3 ± 0.5095
750
700
650
600
550

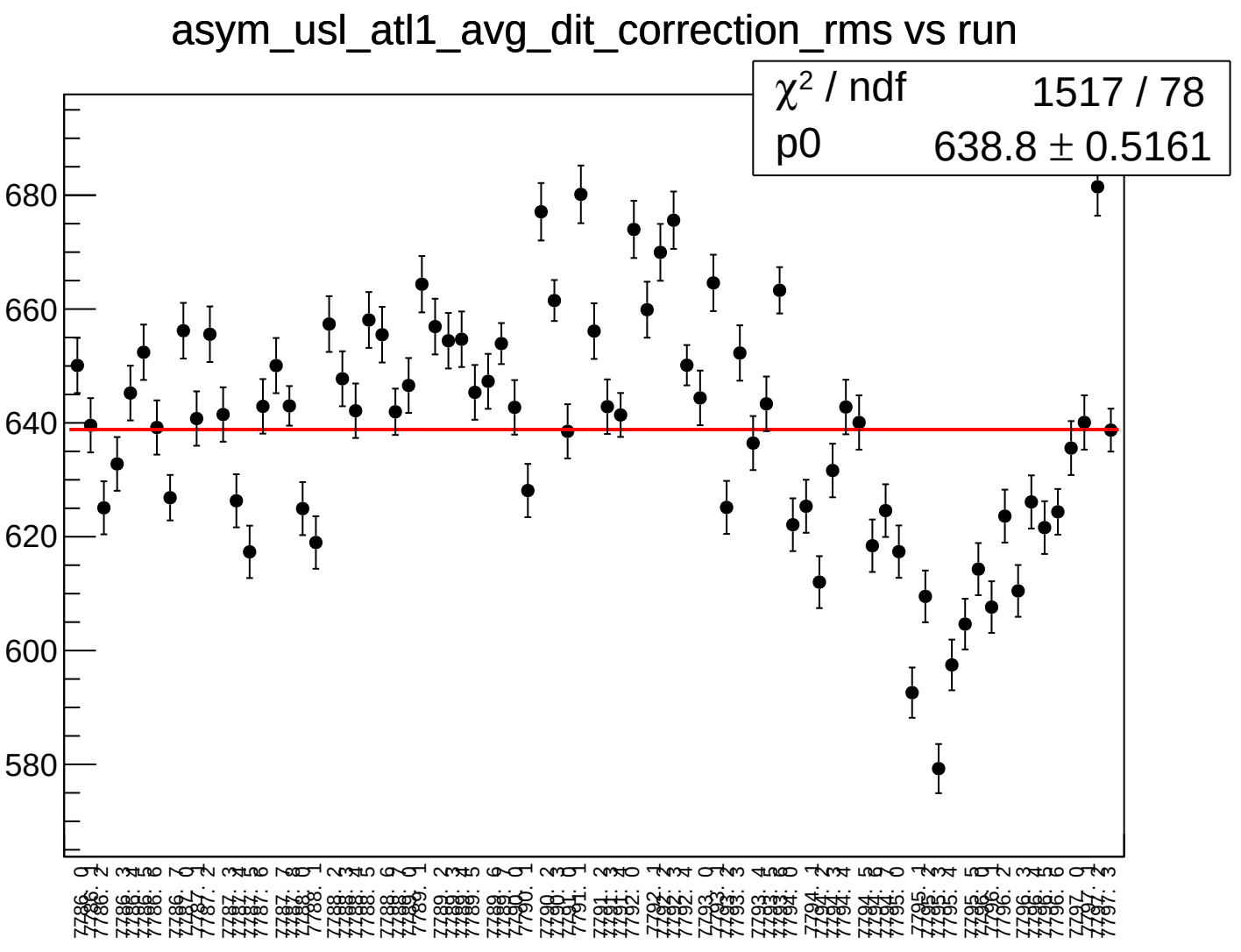

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 63.15 / 78
p0 −2931 ± 1656
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −3069
Std Dev 0
2
1
0
−1
−2

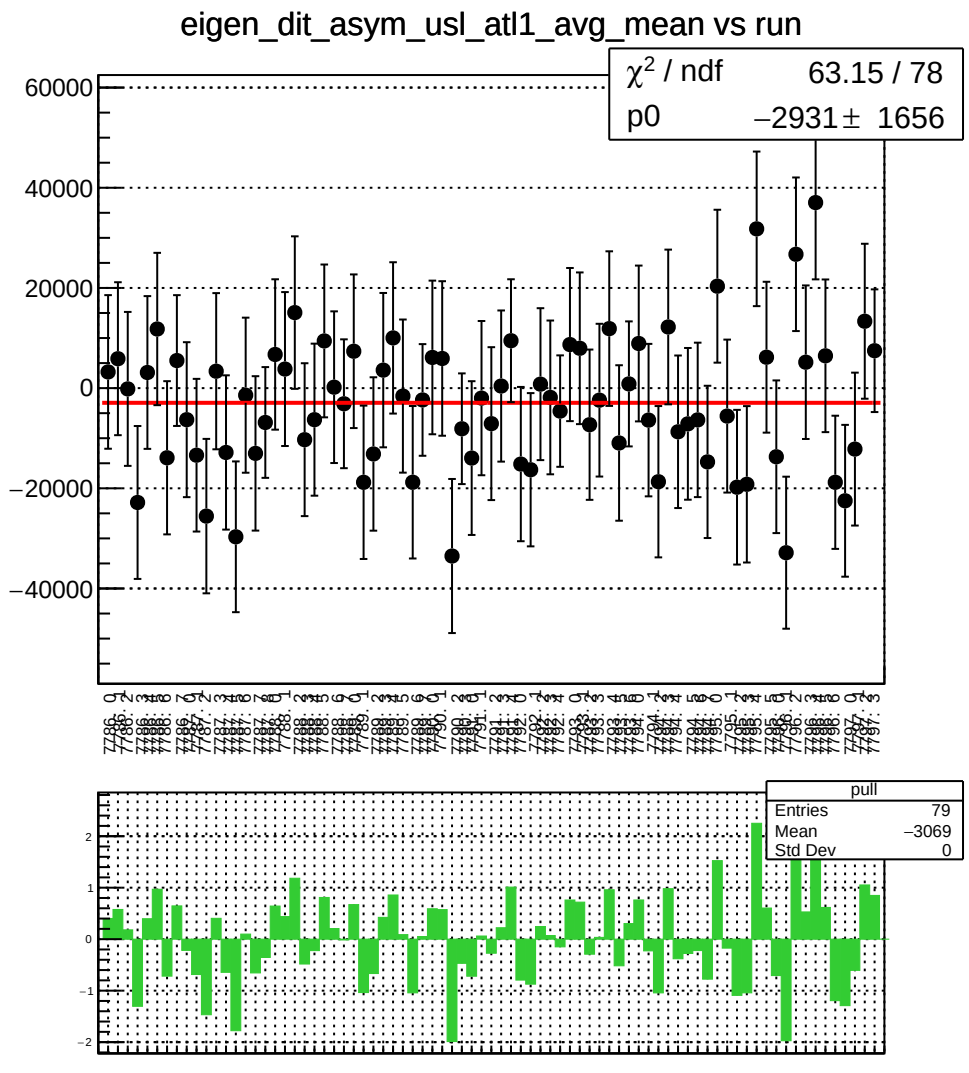

pull1D
Entries 79
Mean −0.0007013
Std Dev 0.8941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

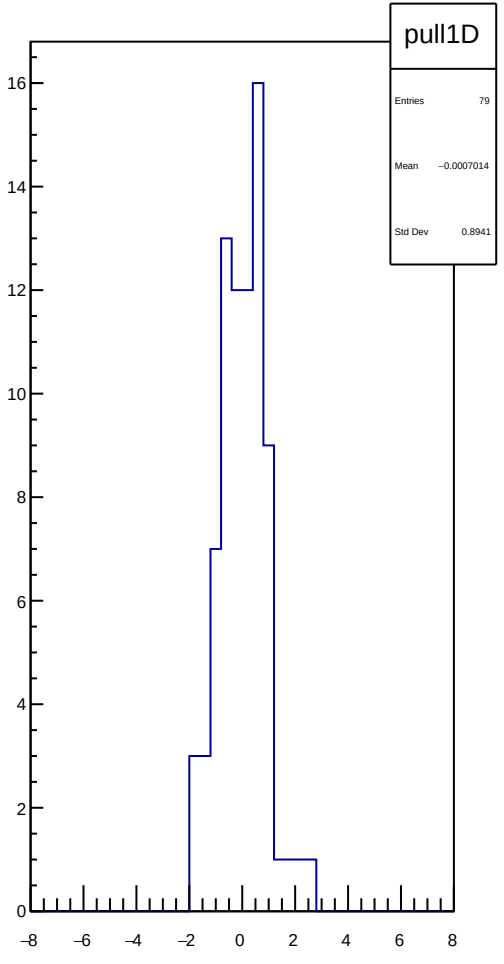

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 110.9 / 78
p0 1450 ± 1.171
1490
1480
1470
1460
1450
1440
1430
1420
1410

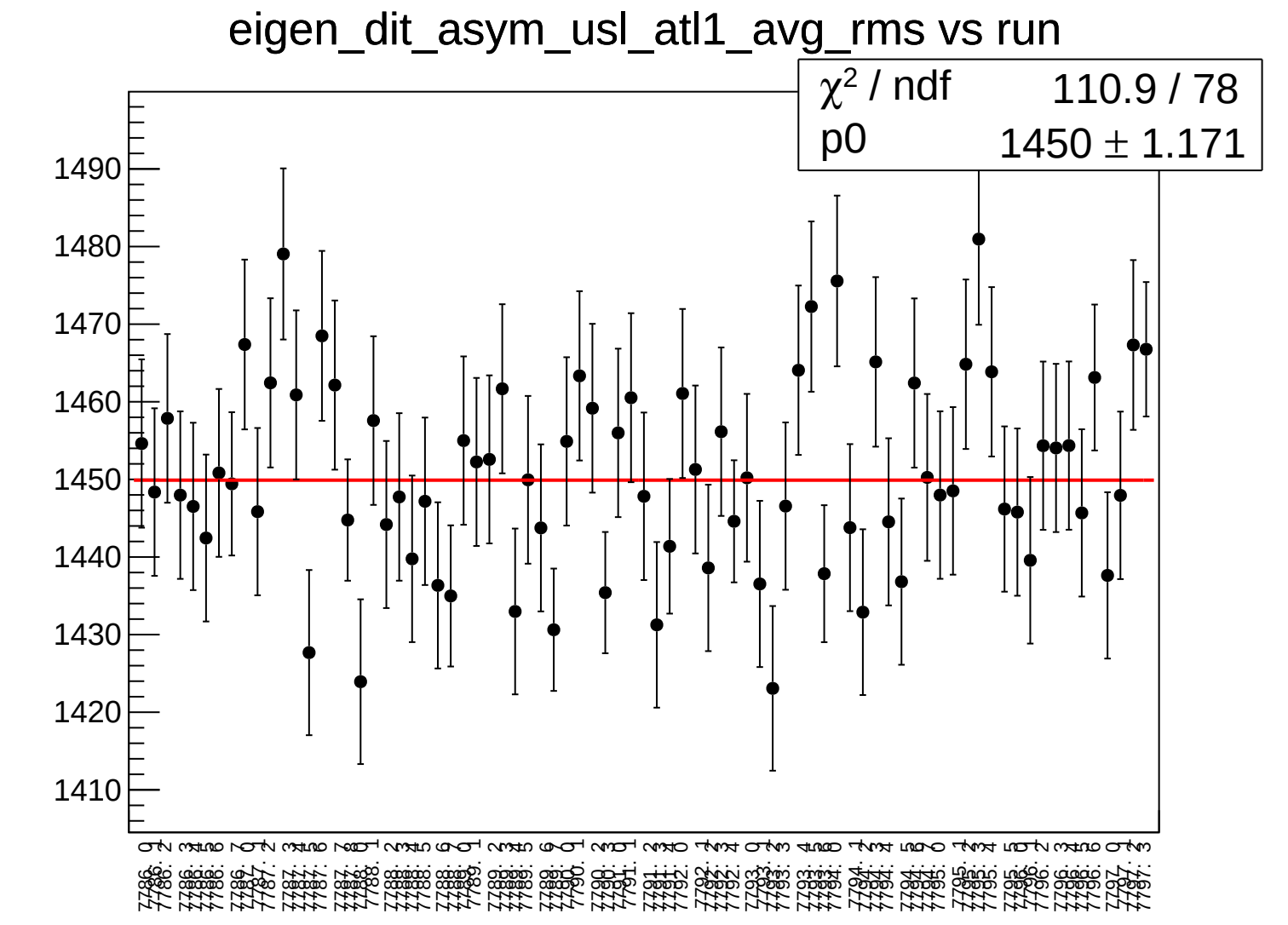

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 74.18 / 78
p0 −679.5 ± 729.8
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −1831
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

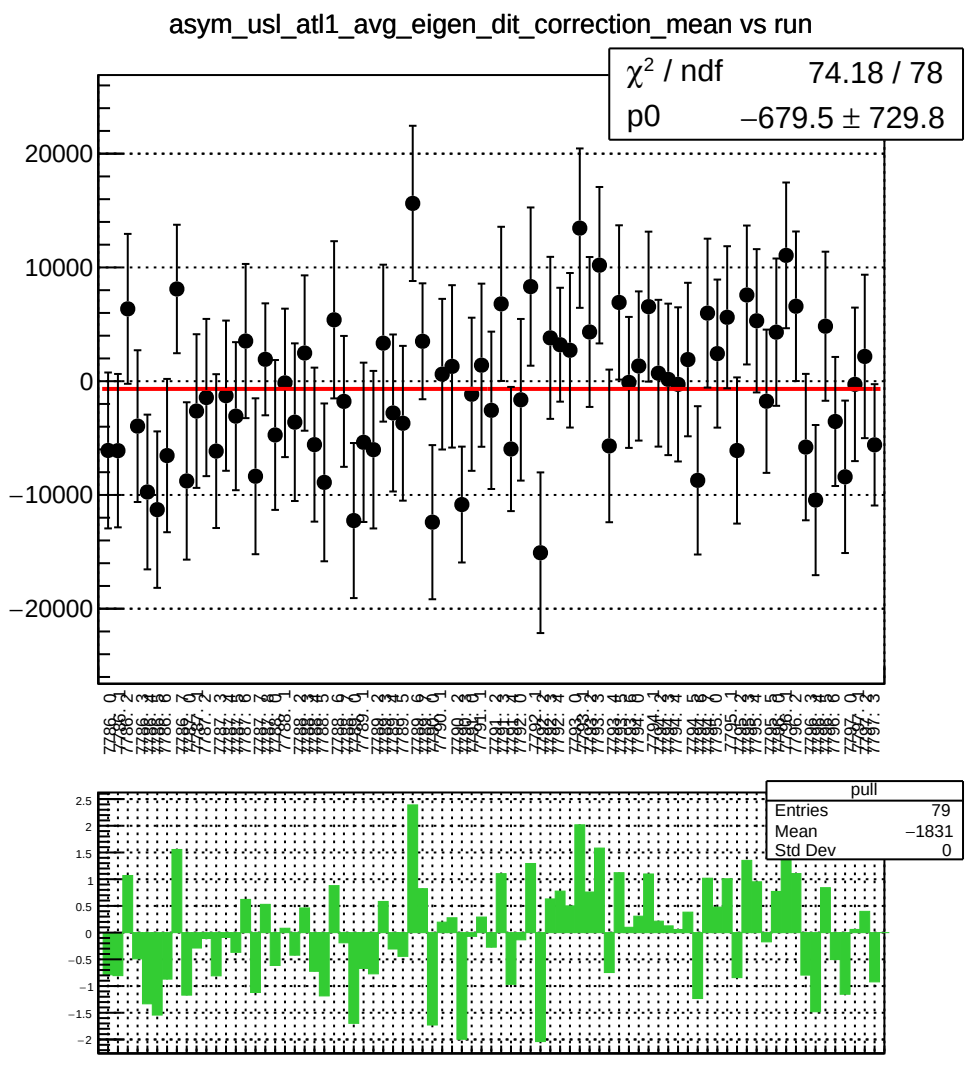

pull1D
Entries 79
Mean −0.002796
Std Dev 0.969
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

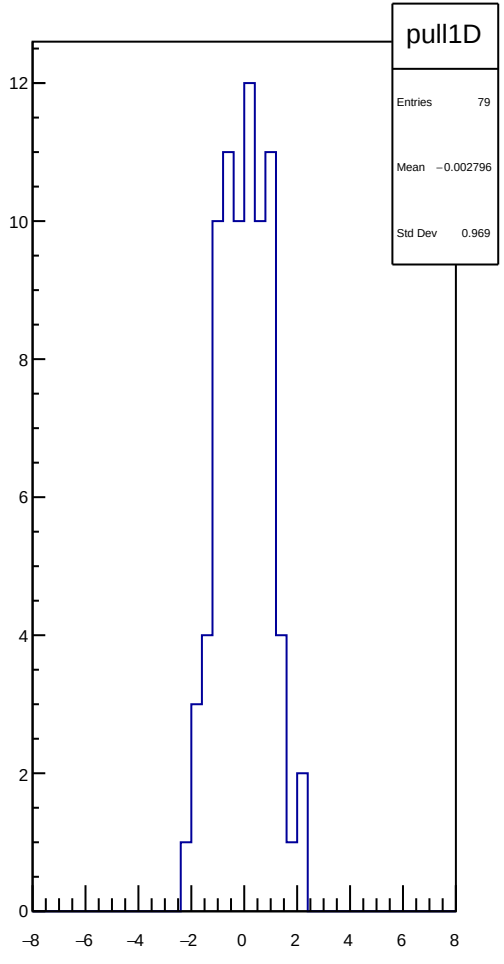

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1517 / 78
p0 638.8 ± 0.5161
680
660
640
620
600
580

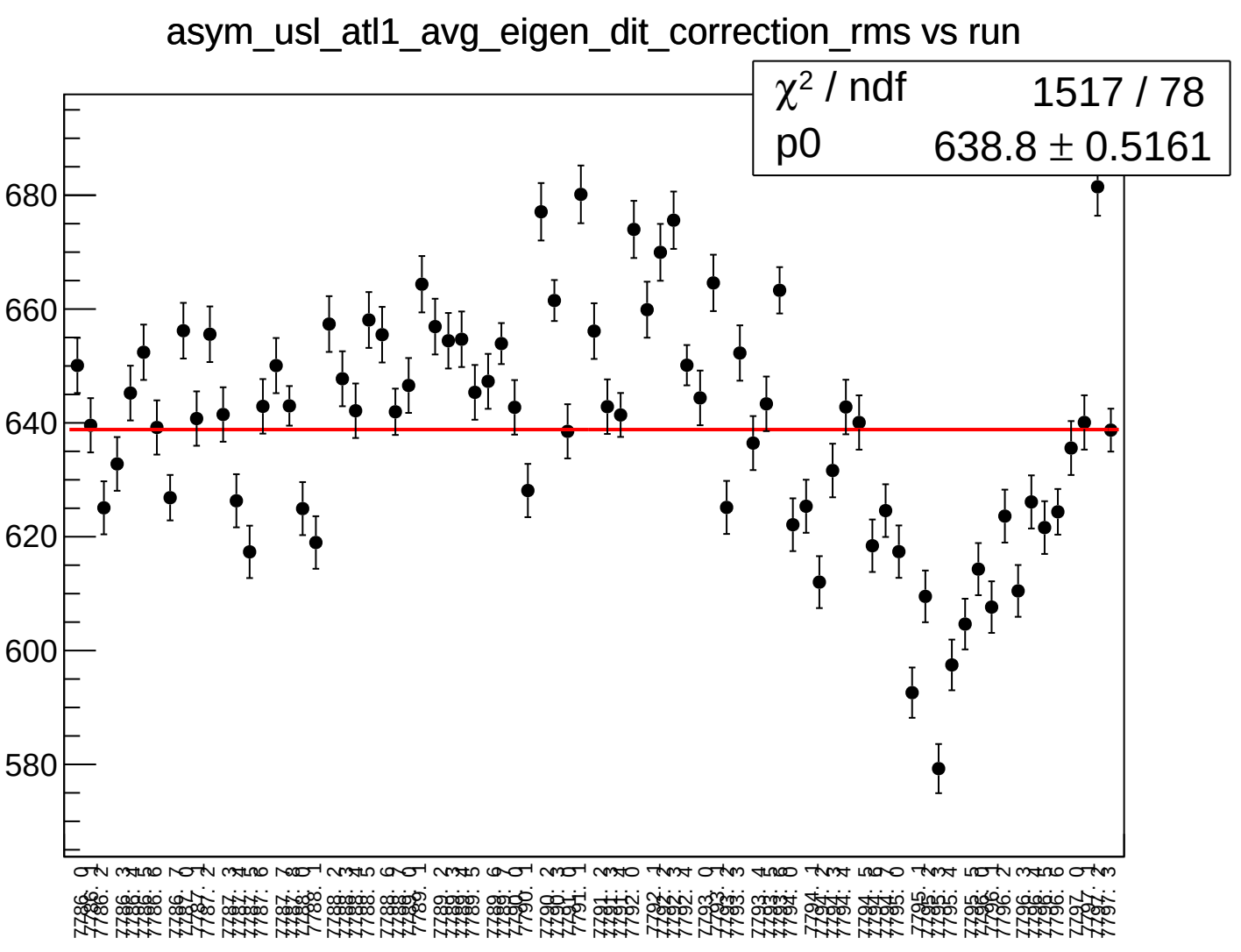

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 63.15 / 78
p0 −2931 ± 1656
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −3069
Std Dev 0
2
1
0
−1
−2

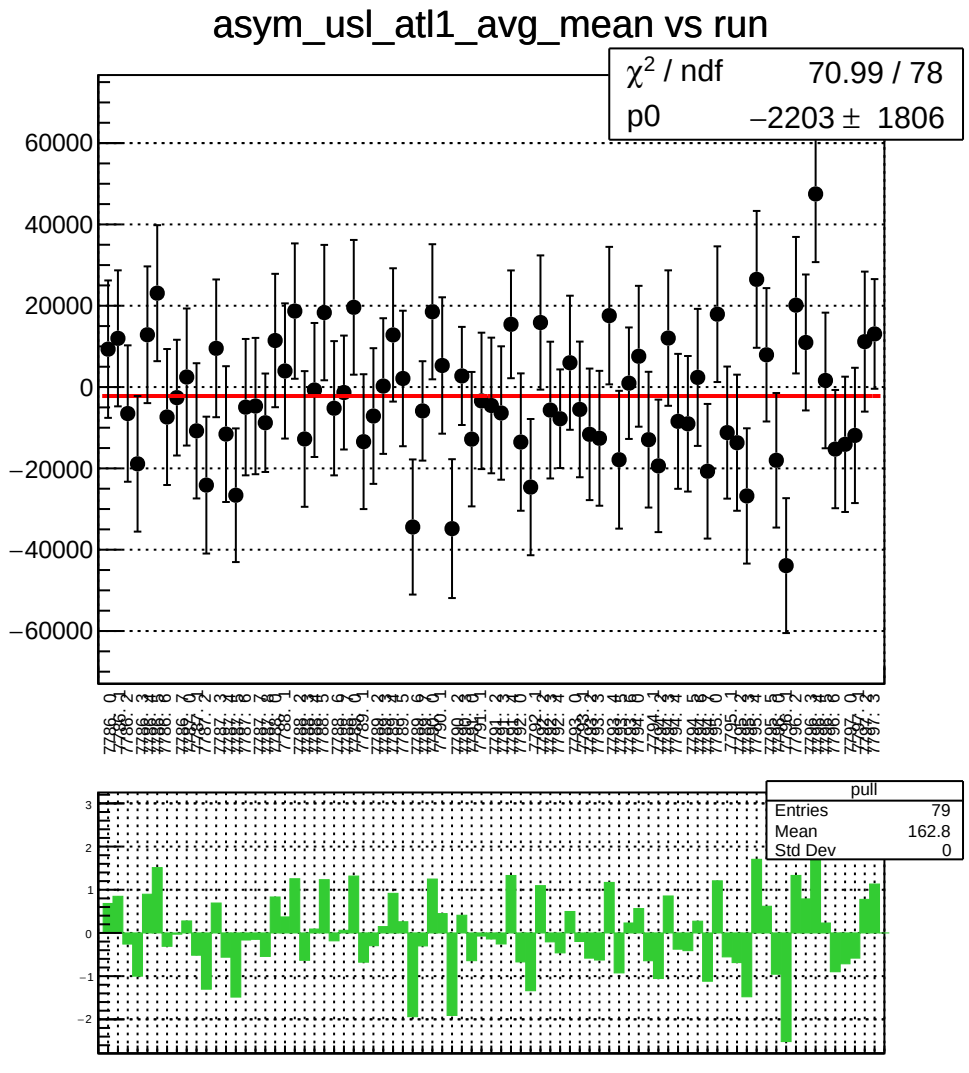

pull1D
Entries 79
Mean −0.0007014
Std Dev 0.8941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

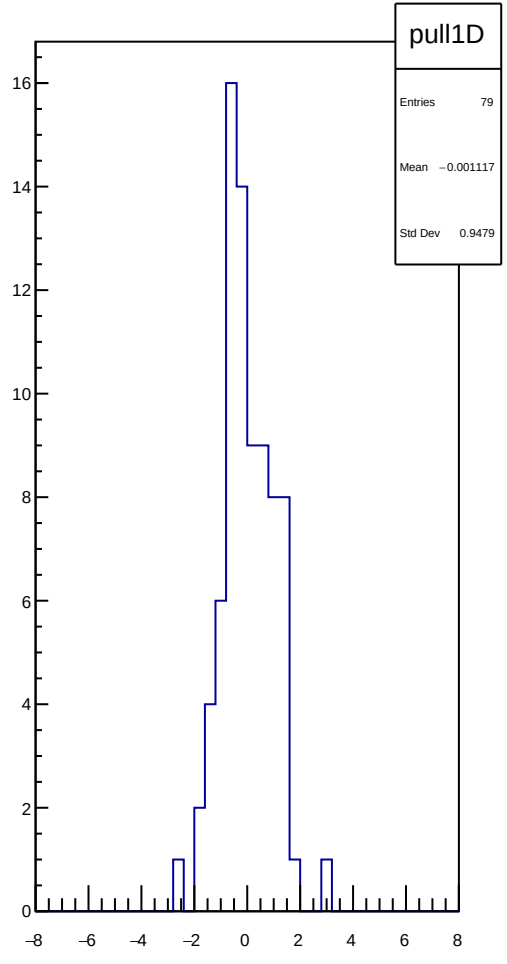

eigen_dit_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 110.9 / 78
p0 1450 ± 1.171
1490
1480
1470
1460
1450
1440
1430
1420
1410

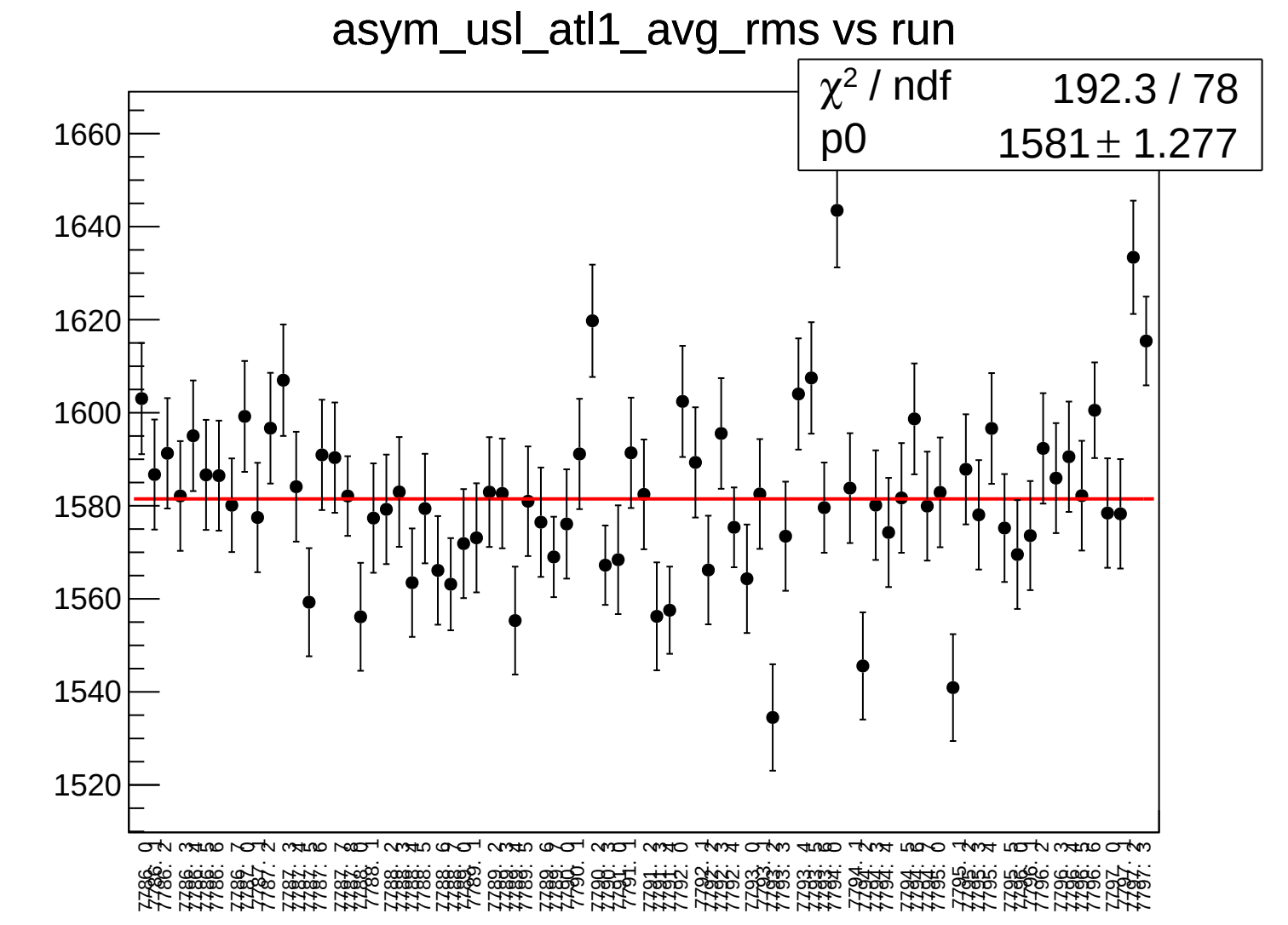

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.18 / 78
p0 −679.5 ± 729.8
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −1831
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

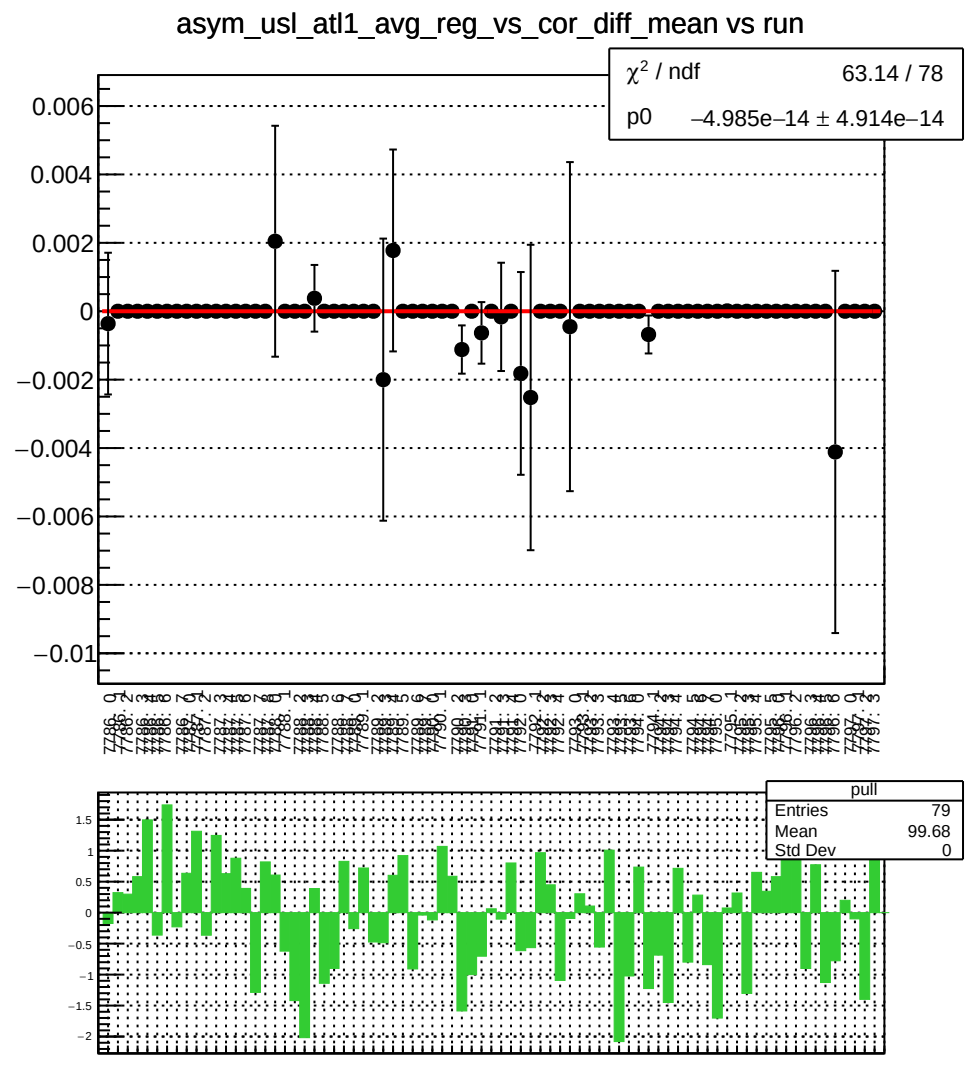

pull1D
Entries 79
Mean −0.002796
Std Dev 0.969
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

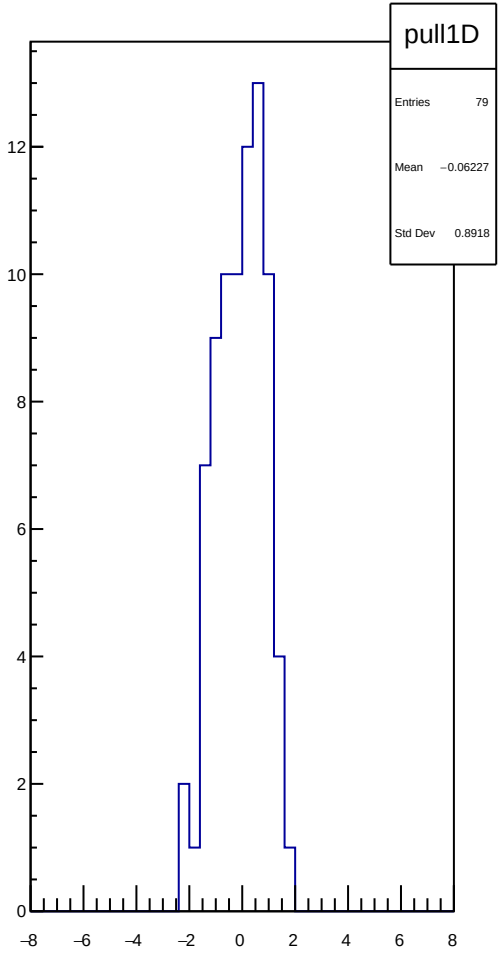

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1517 / 78
p0 638.8 ± 0.5161
680
660
640
620
600
580

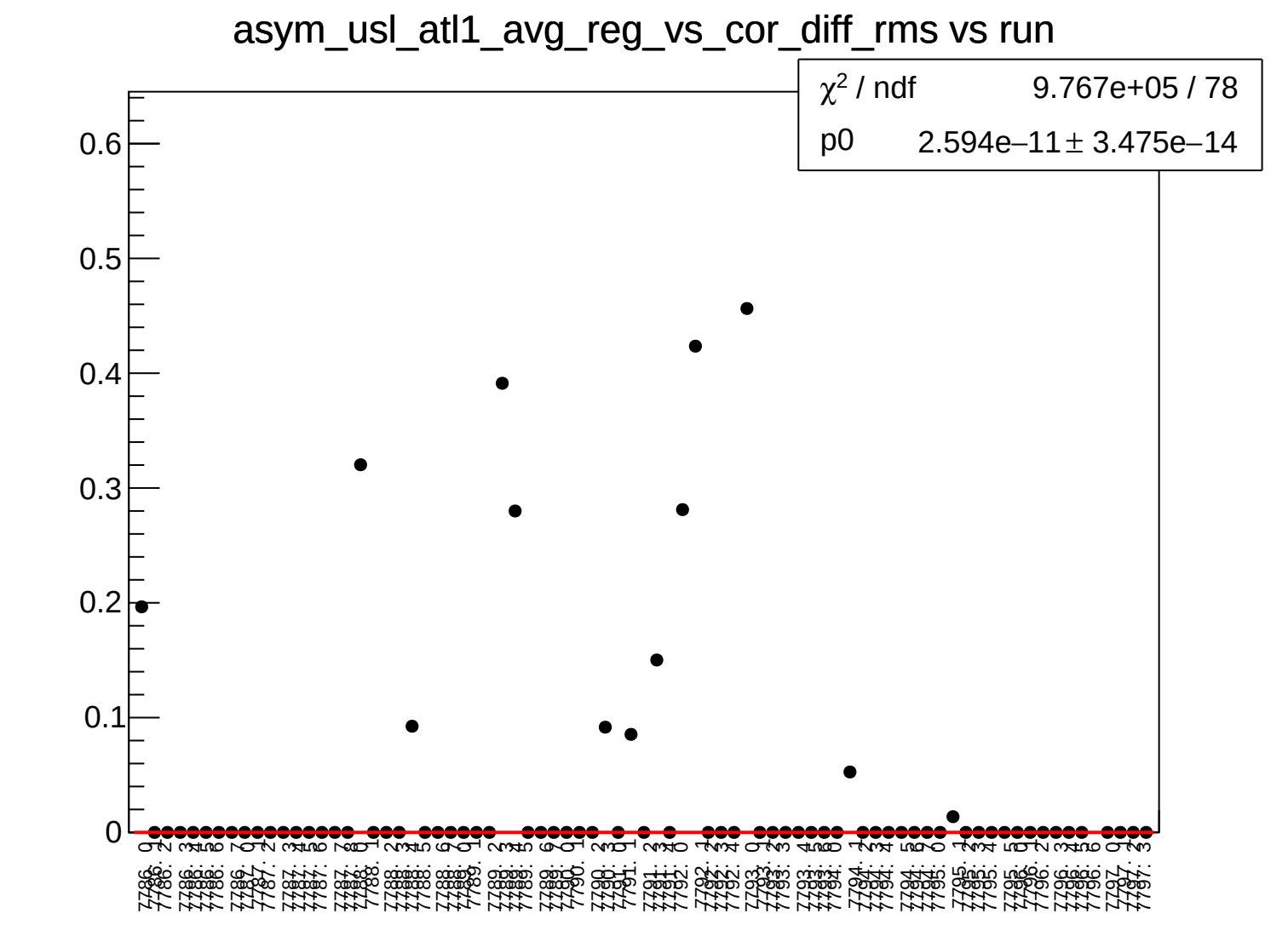

asym_usl_atl1_avg_mean vs run
χ² / ndf 70.99 / 78
p0 −2203 ± 1806
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 162.8
Std Dev 0
3
2
1
0
−1
−2

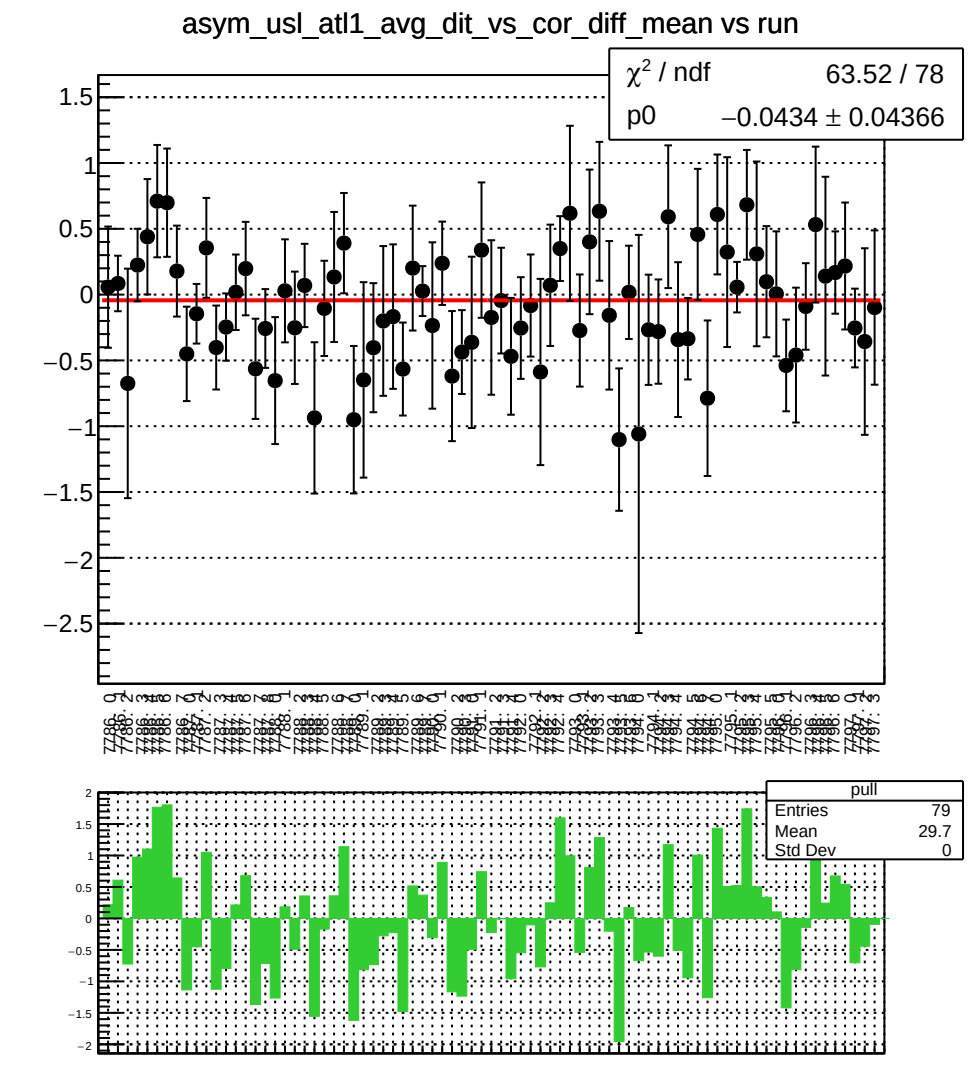

pull1D
Entries 79
Mean −0.001117
Std Dev 0.9479
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

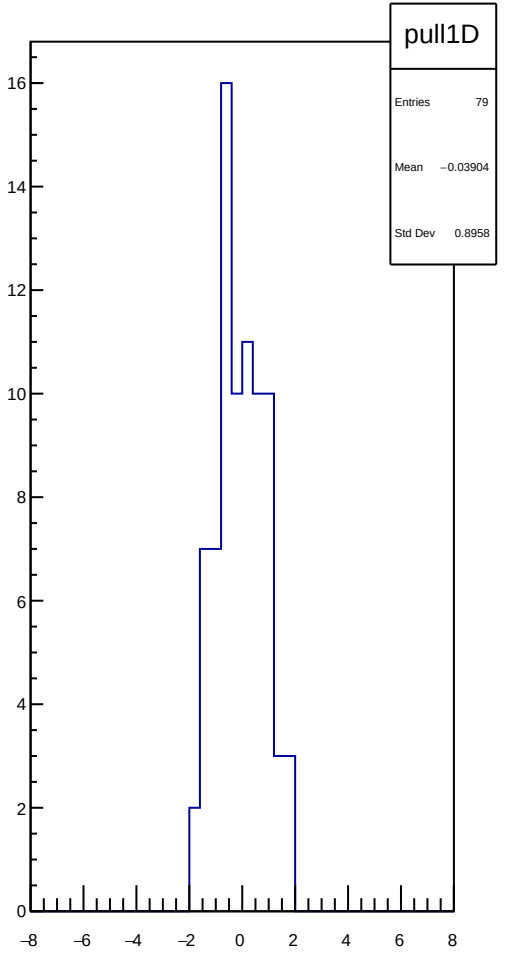

asym_usl_atl1_avg_rms vs run
χ² / ndf 192.3 / 78
p0 1581 ± 1.277
1660
1640
1620
1600
1580
1560
1540
1520

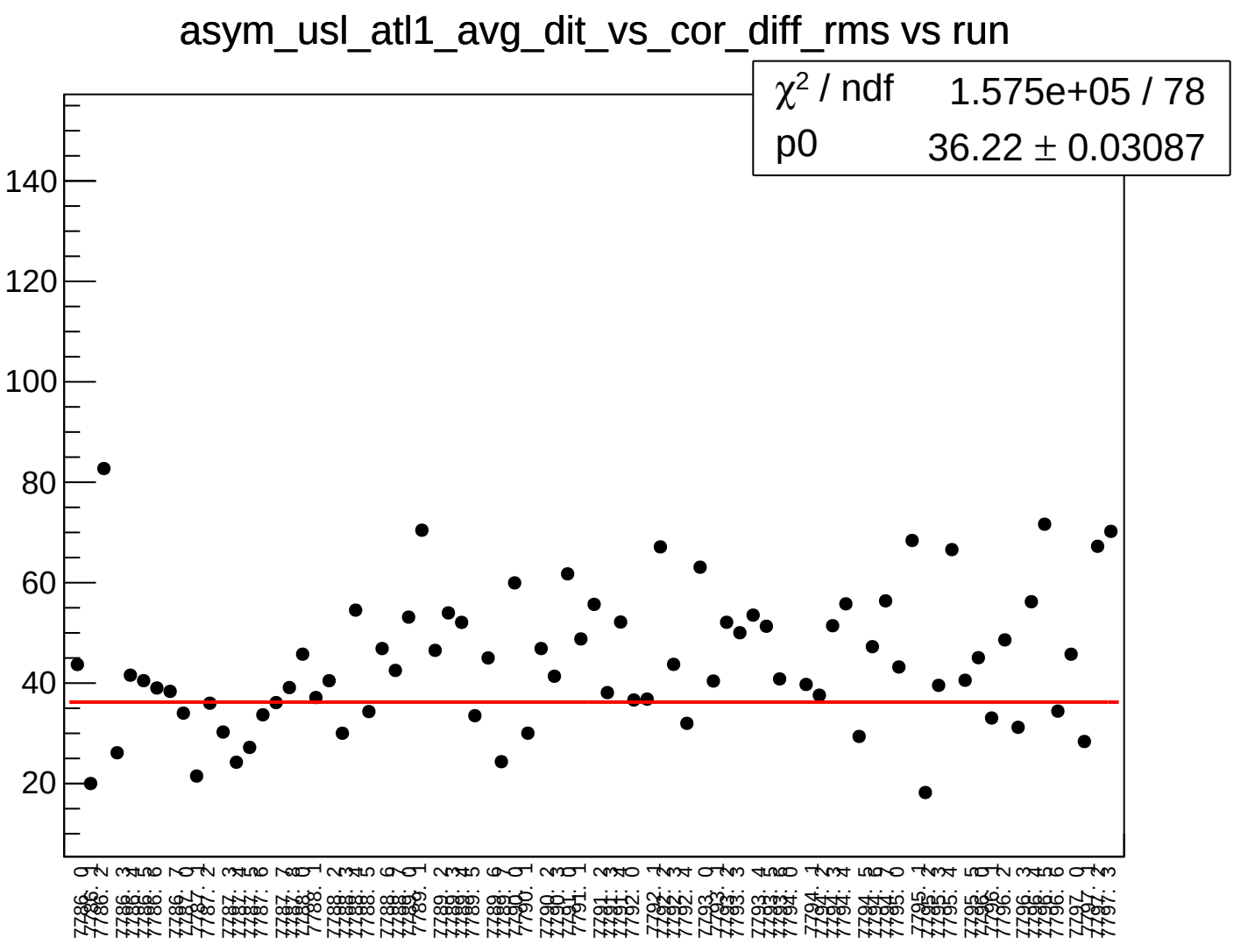

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 63.14 / 78
p0 −4.985e−14 ± 4.914e−14
pull
Entries 79
Mean 99.68
Std Dev 0

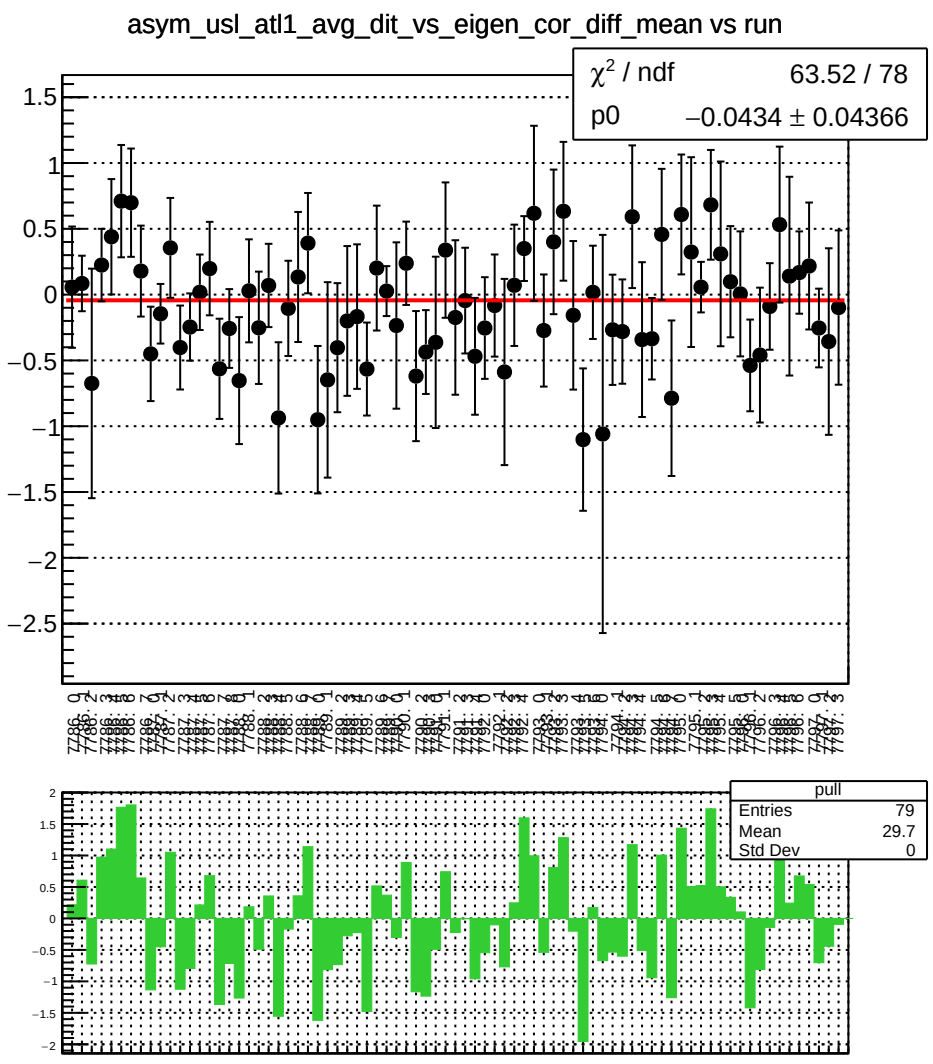

pull1D
Entries 79
Mean −0.06227
Std Dev 0.8918

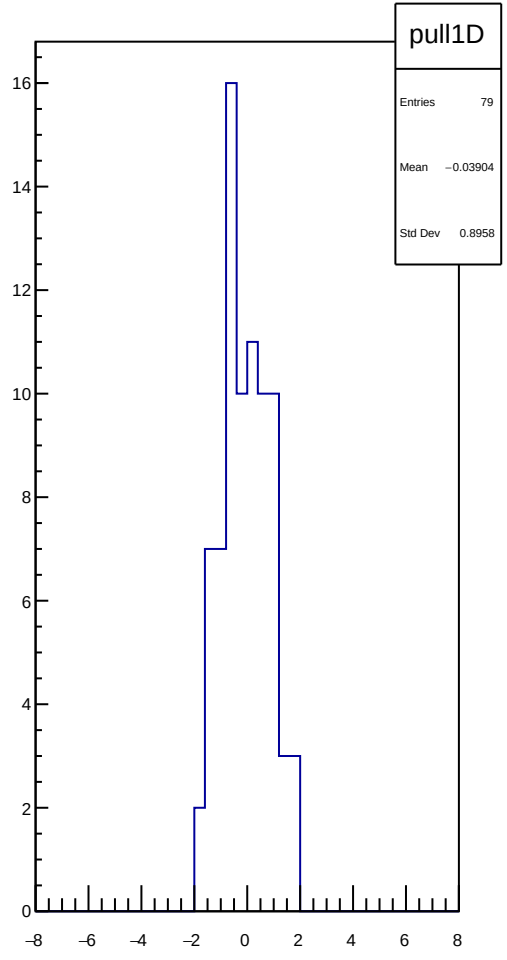

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.767e+05 / 78
p0 2.594e−11 ± 3.475e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

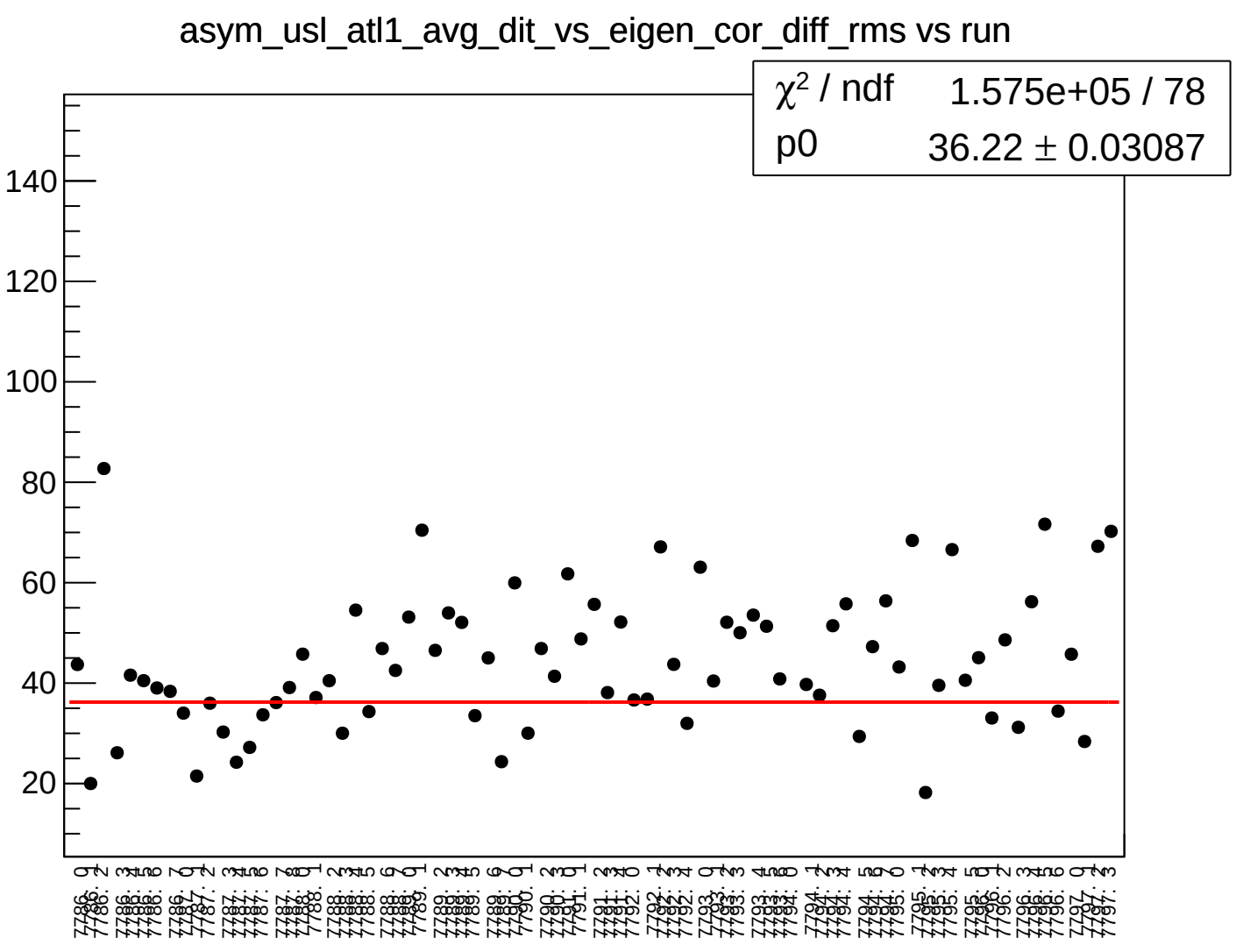

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 63.52 / 78
p0 −0.0434 ± 0.04366
pull
Entries 79
Mean 29.7
Std Dev 0

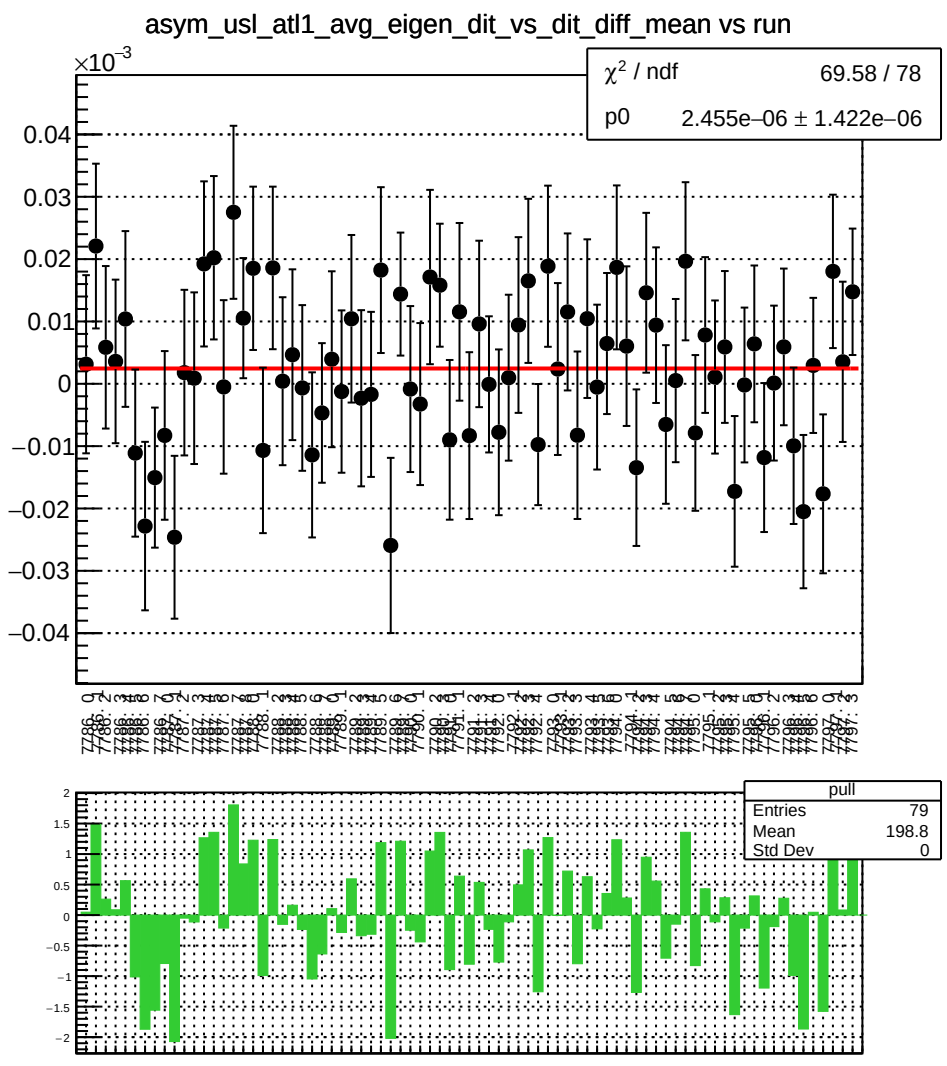

pull1D
Entries 79
Mean −0.03904
Std Dev 0.8958

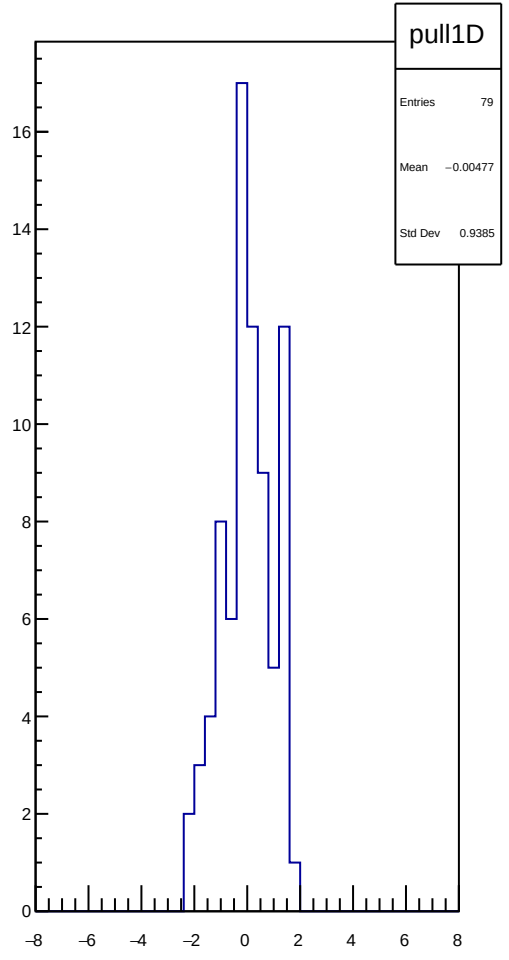

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.575e+05 / 78
p0 36.22 ± 0.03087
140
120
100
80
60
40
20

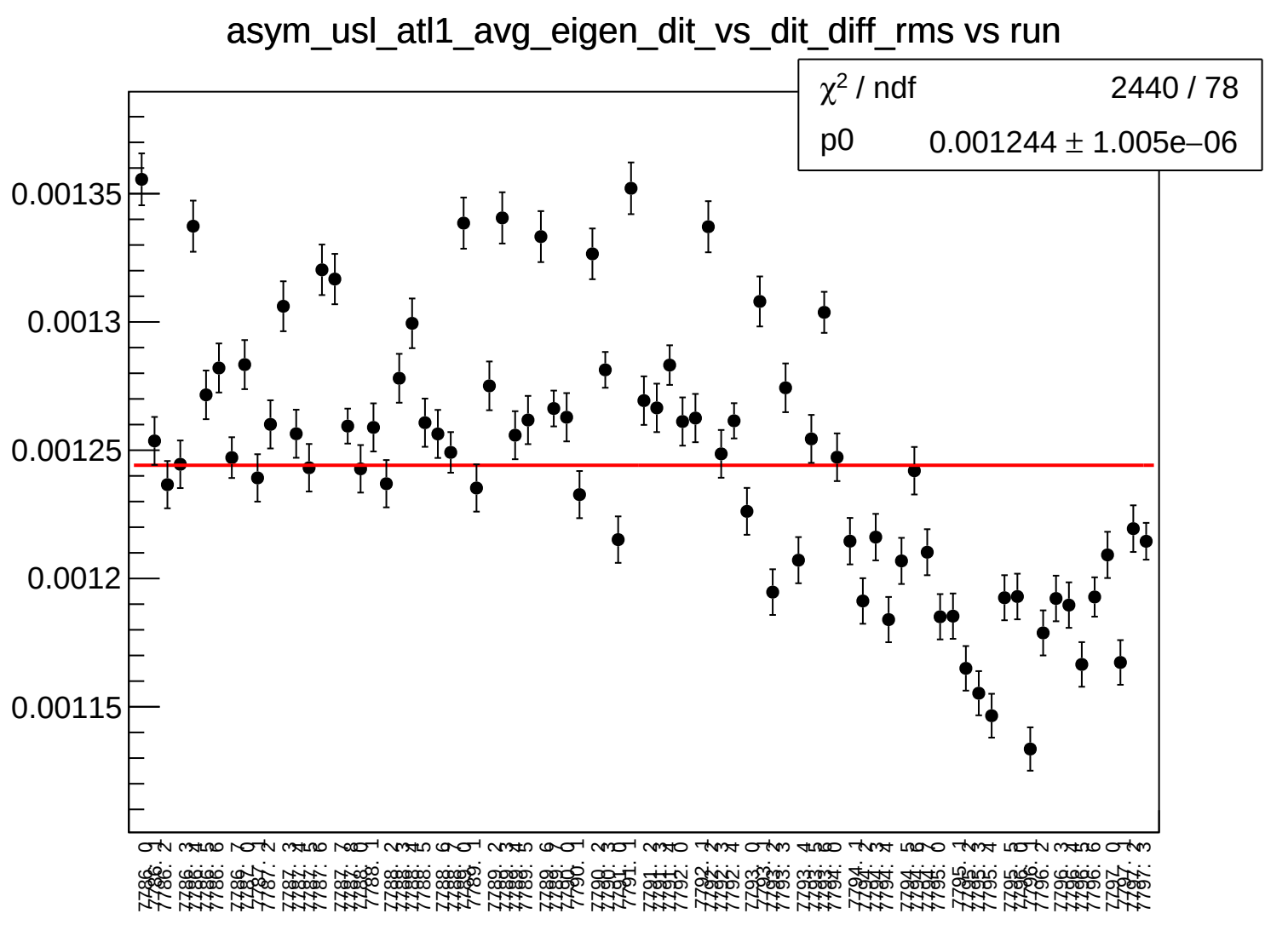

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.52 / 78
p0 −0.0434 ± 0.04366
pull
Entries 79
Mean 29.7
Std Dev 0

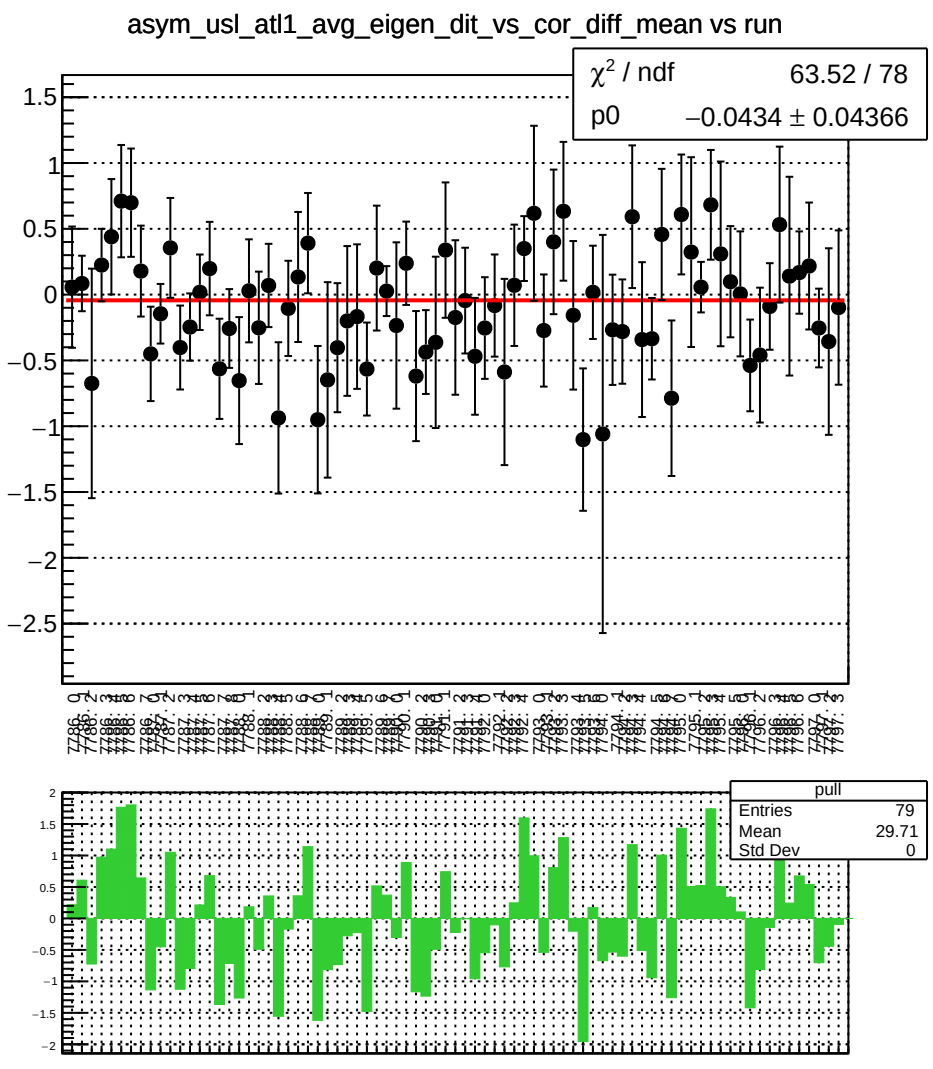

pull1D
Entries 79
Mean −0.03904
Std Dev 0.8958

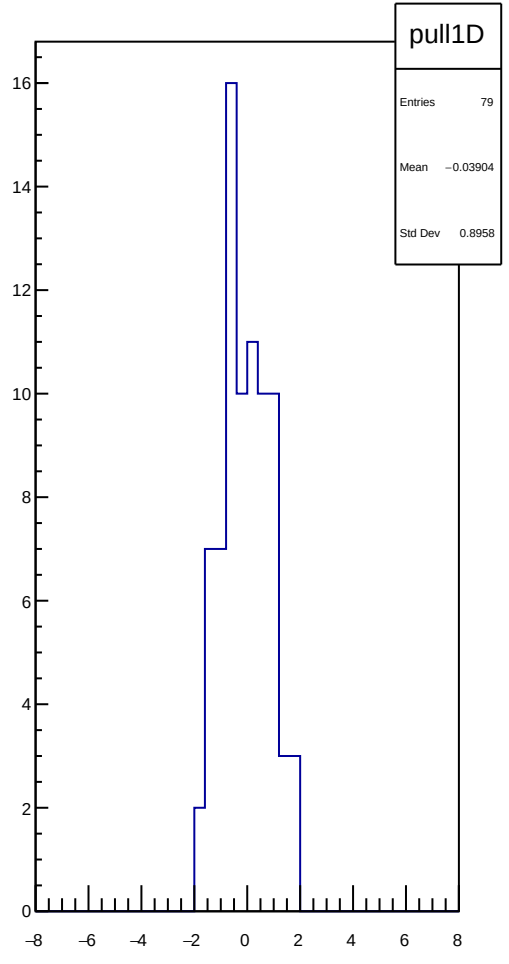

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.575e+05 / 78
p0 36.22 ± 0.03087
140
120
100
80
60
40
20

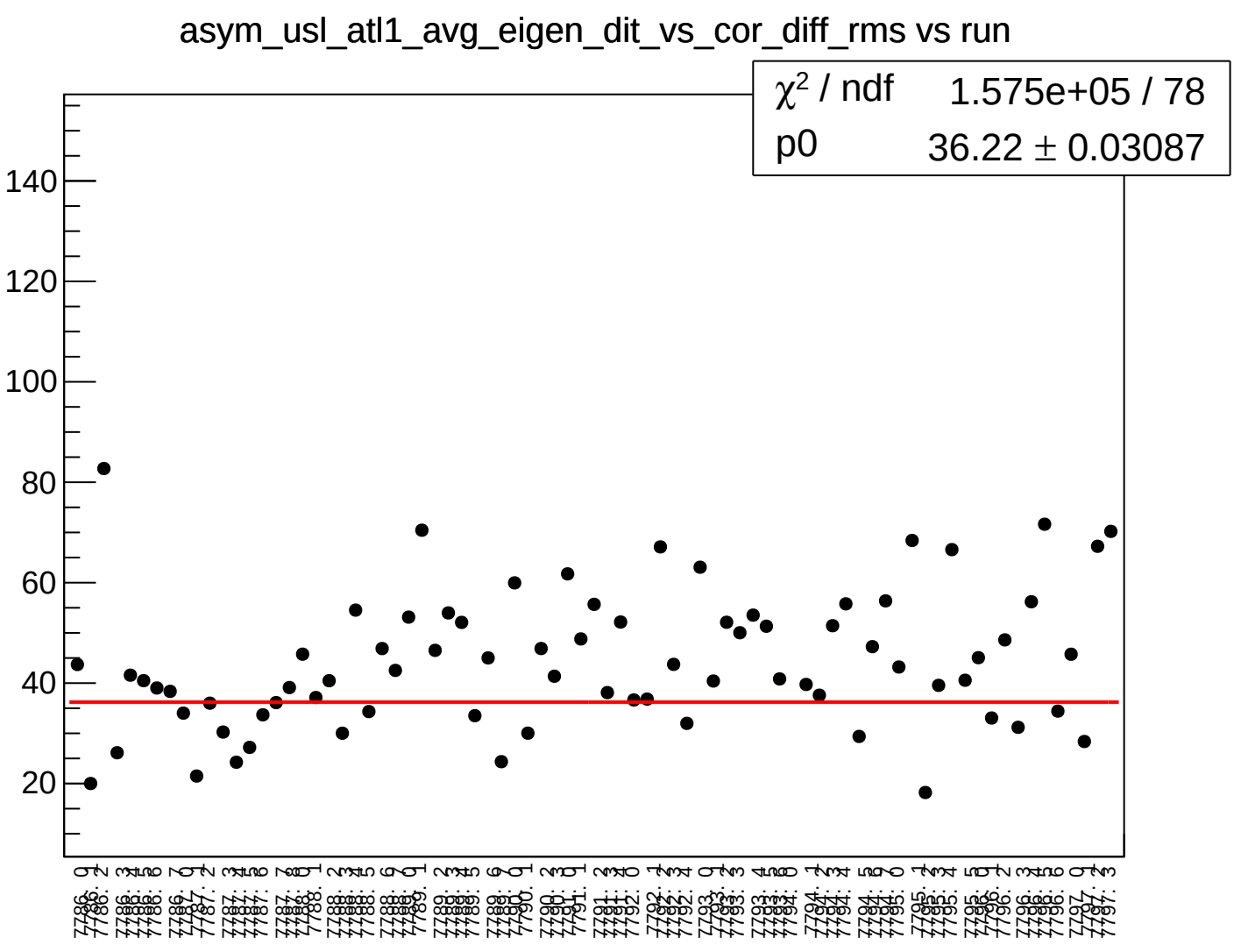

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.58 / 78
p0 2.455e−06 ± 1.422e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 79
Mean 198.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

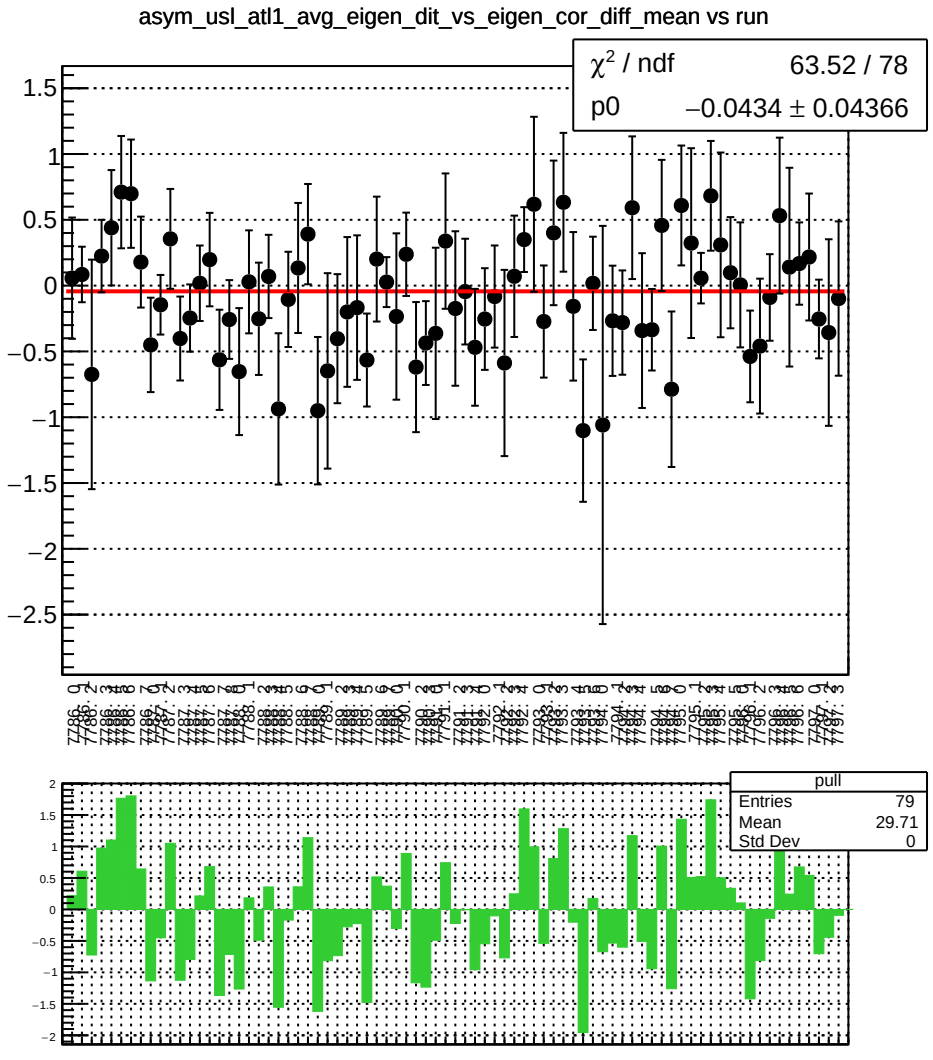

pull1D
Entries 79
Mean −0.00477
Std Dev 0.9385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

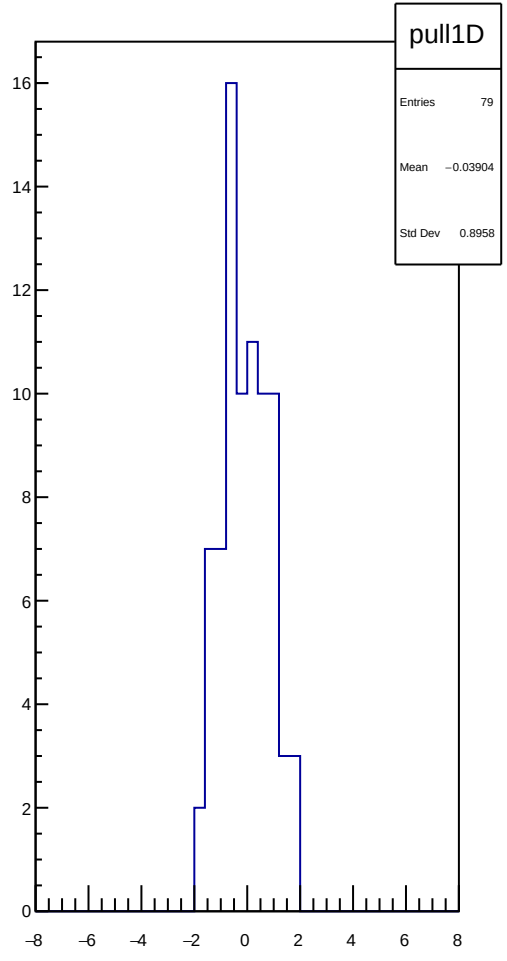

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2440 / 78
p0 0.001244 ± 1.005e−06
0.00135
0.0013
0.00125
0.0012
0.00115

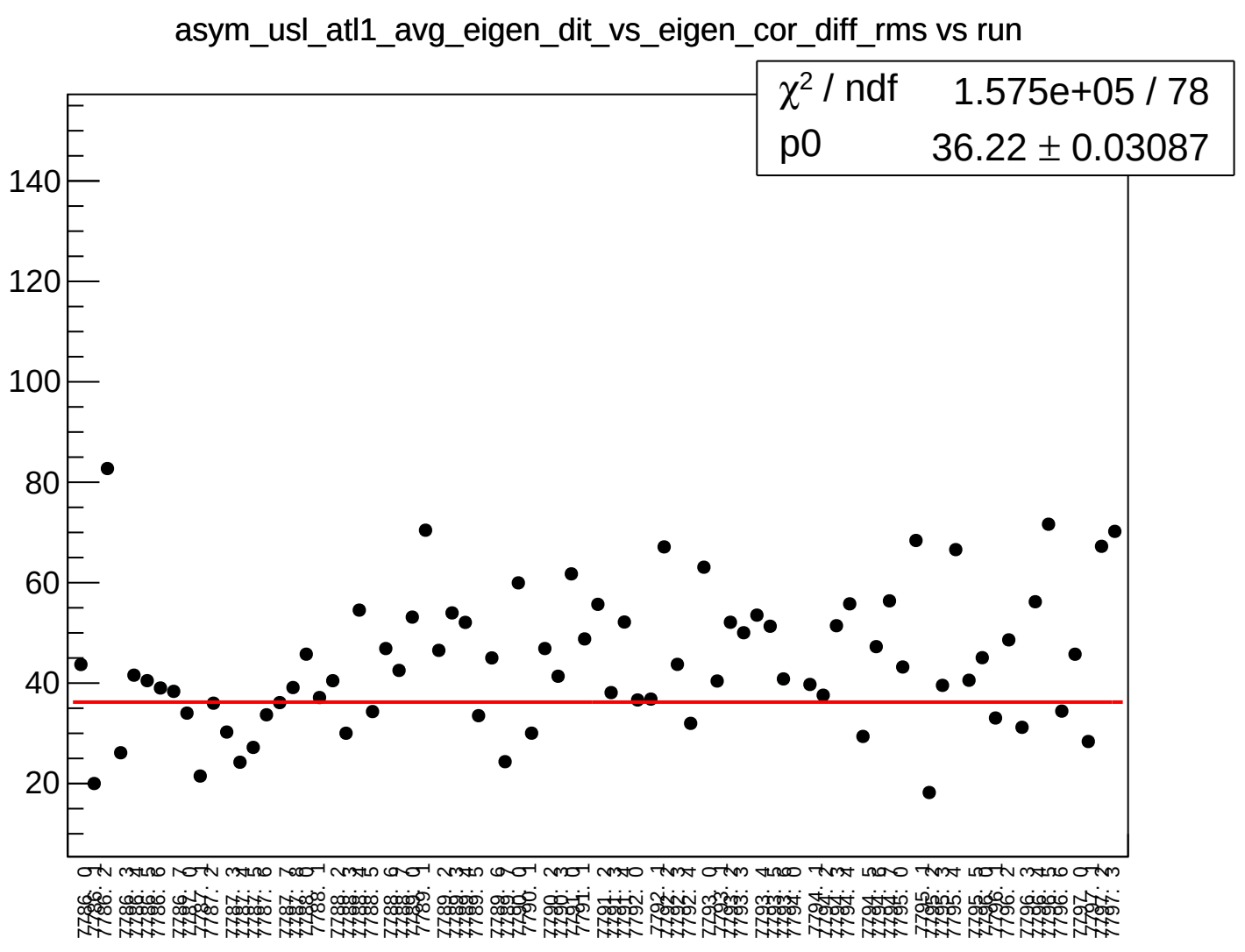

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.52 / 78
p0 −0.0434 ± 0.04366
pull
Entries 79
Mean 29.71
Std Dev 0

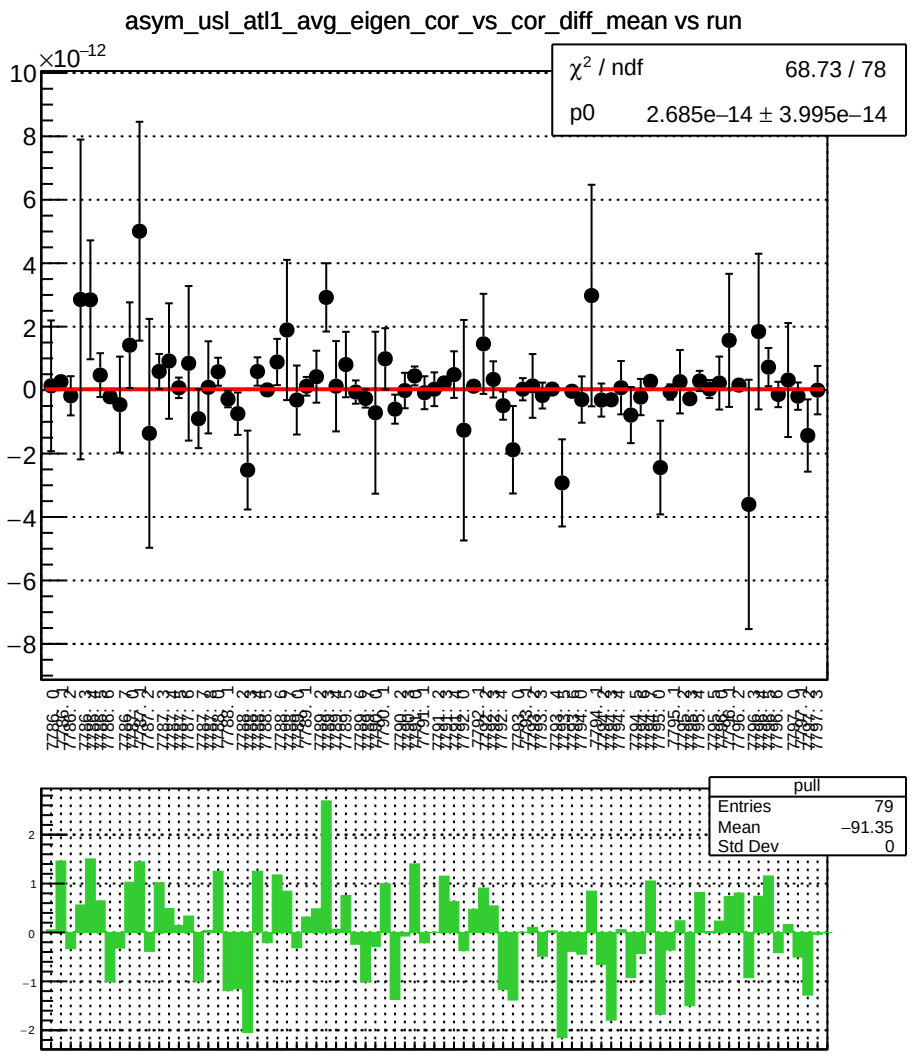

pull1D
Entries 79
Mean −0.03904
Std Dev 0.8958

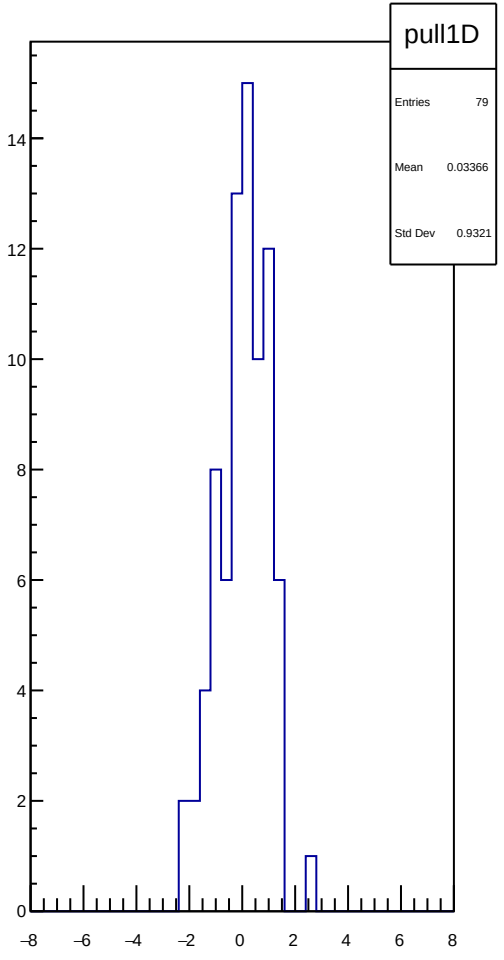

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.575e+05 / 78
p0 36.22 ± 0.03087
140
120
100
80
60
40
20

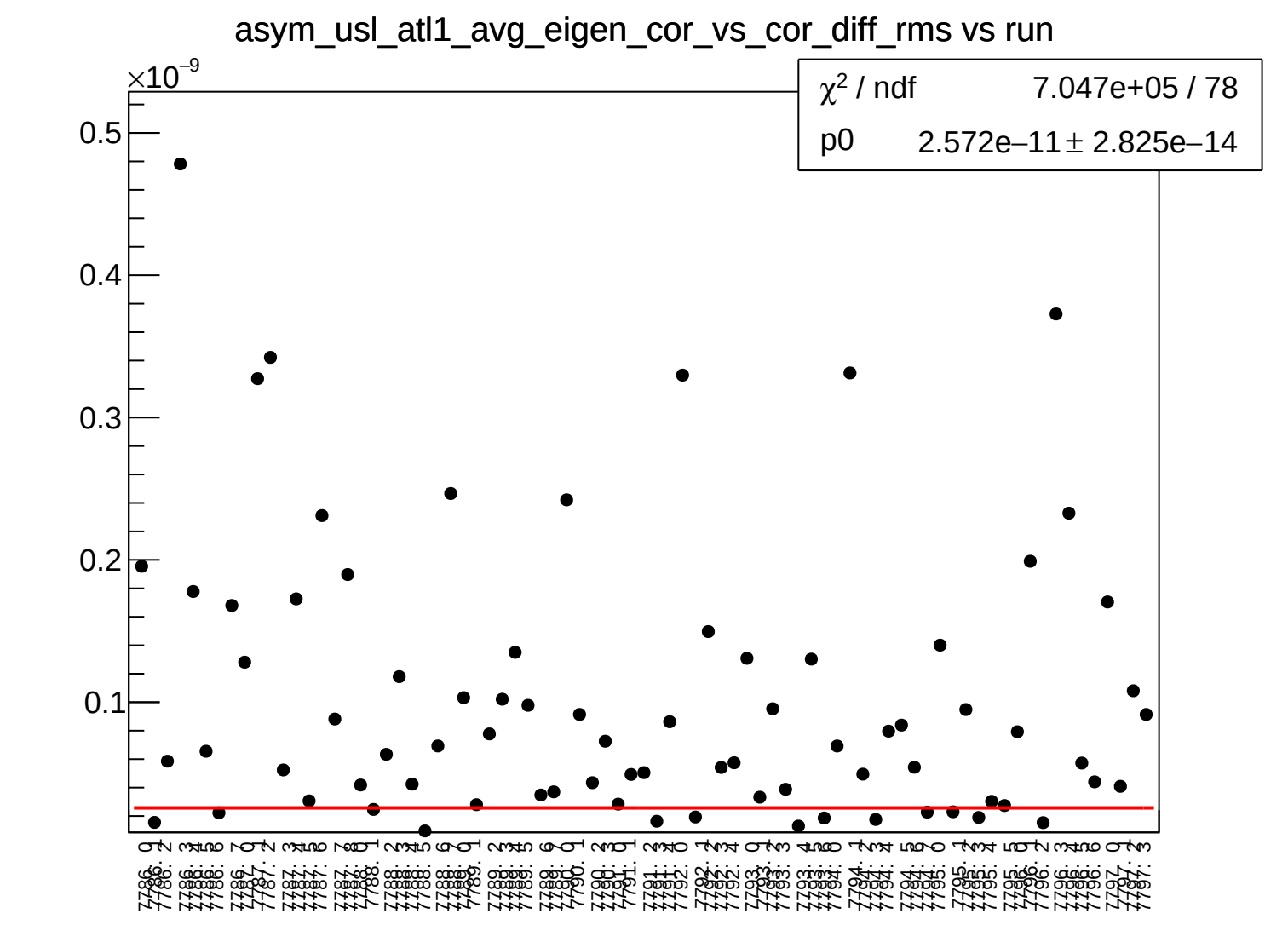

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.52 / 78
p0 −0.0434 ± 0.04366
pull
Entries 79
Mean 29.71
Std Dev 0

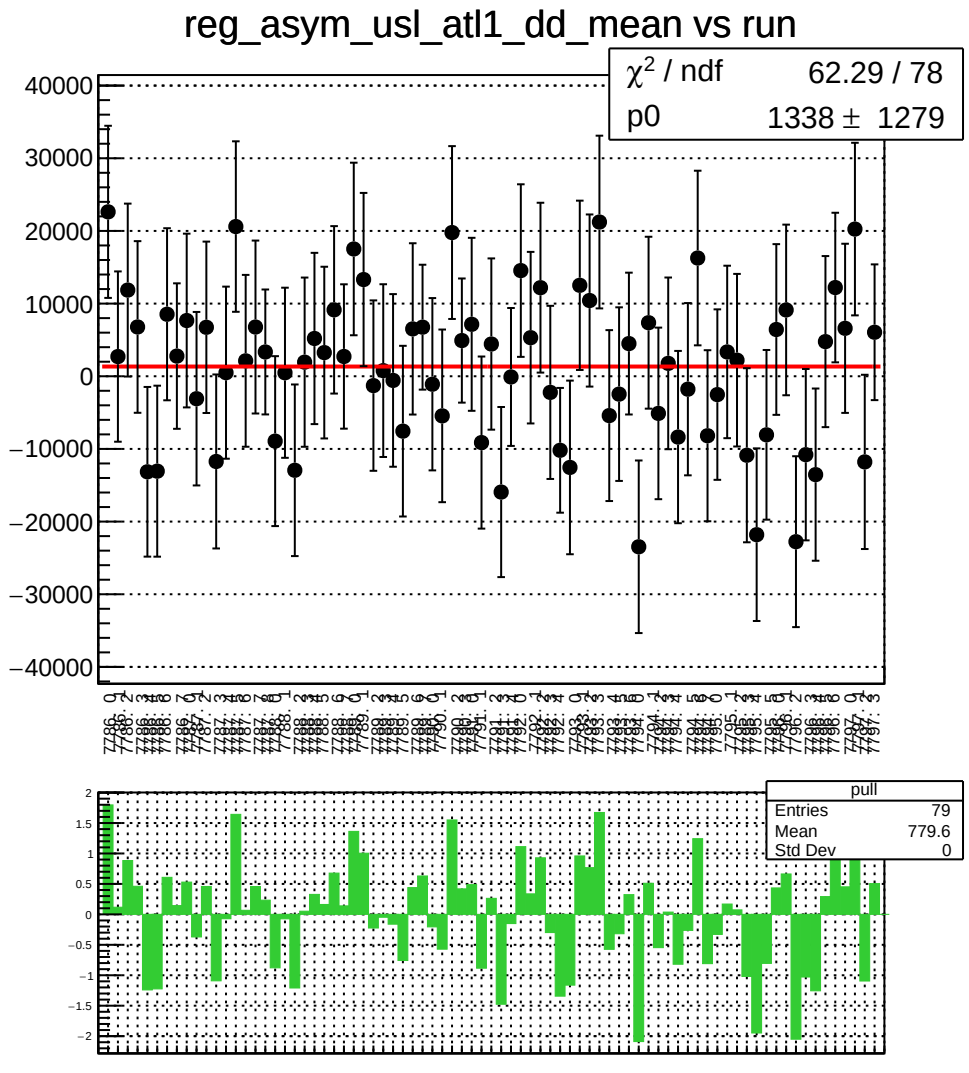

pull1D
Entries 79
Mean −0.03904
Std Dev 0.8958

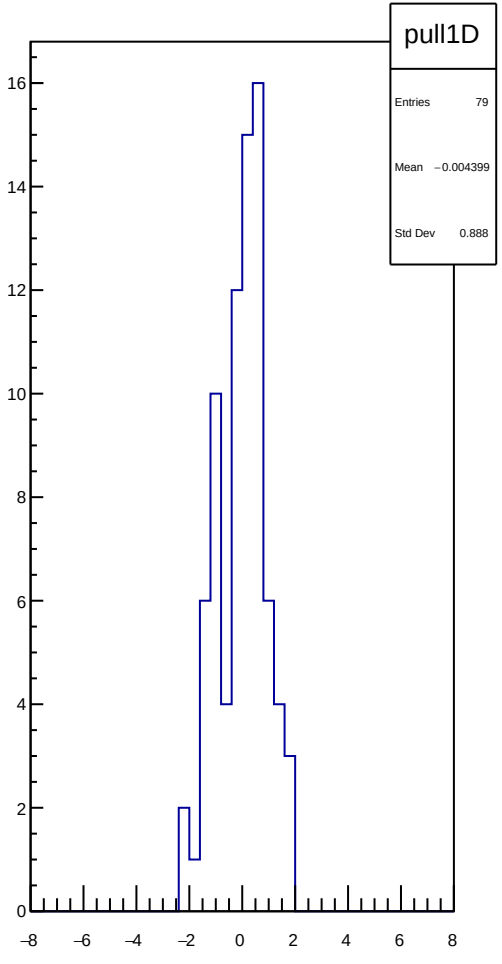

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.575e+05 / 78
p0 36.22 ± 0.03087
140
120
100
80
60
40
20

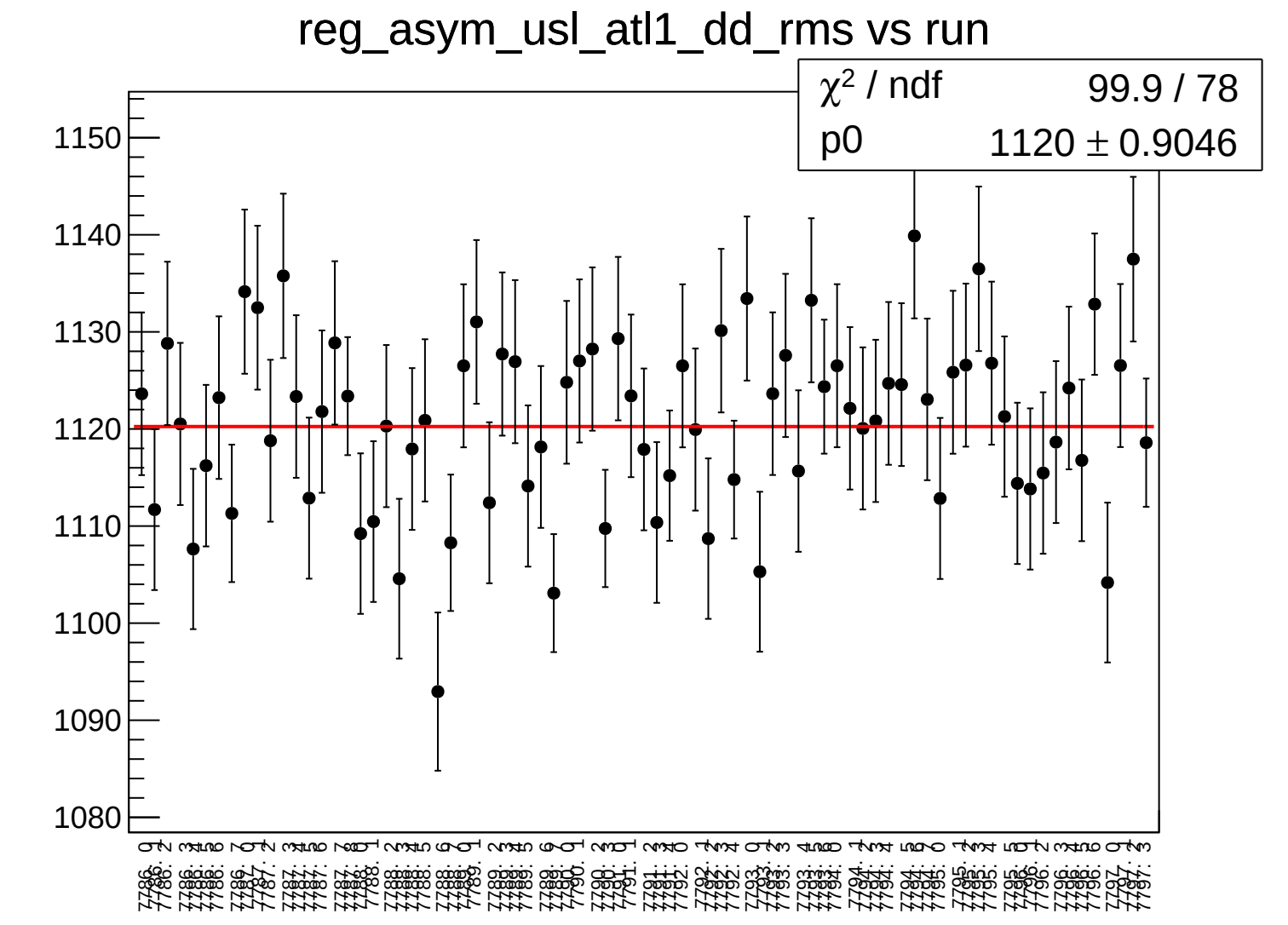

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.73 / 78
p0 2.685e−14 ± 3.995e−14
pull
Entries 79
Mean −91.35
Std Dev 0

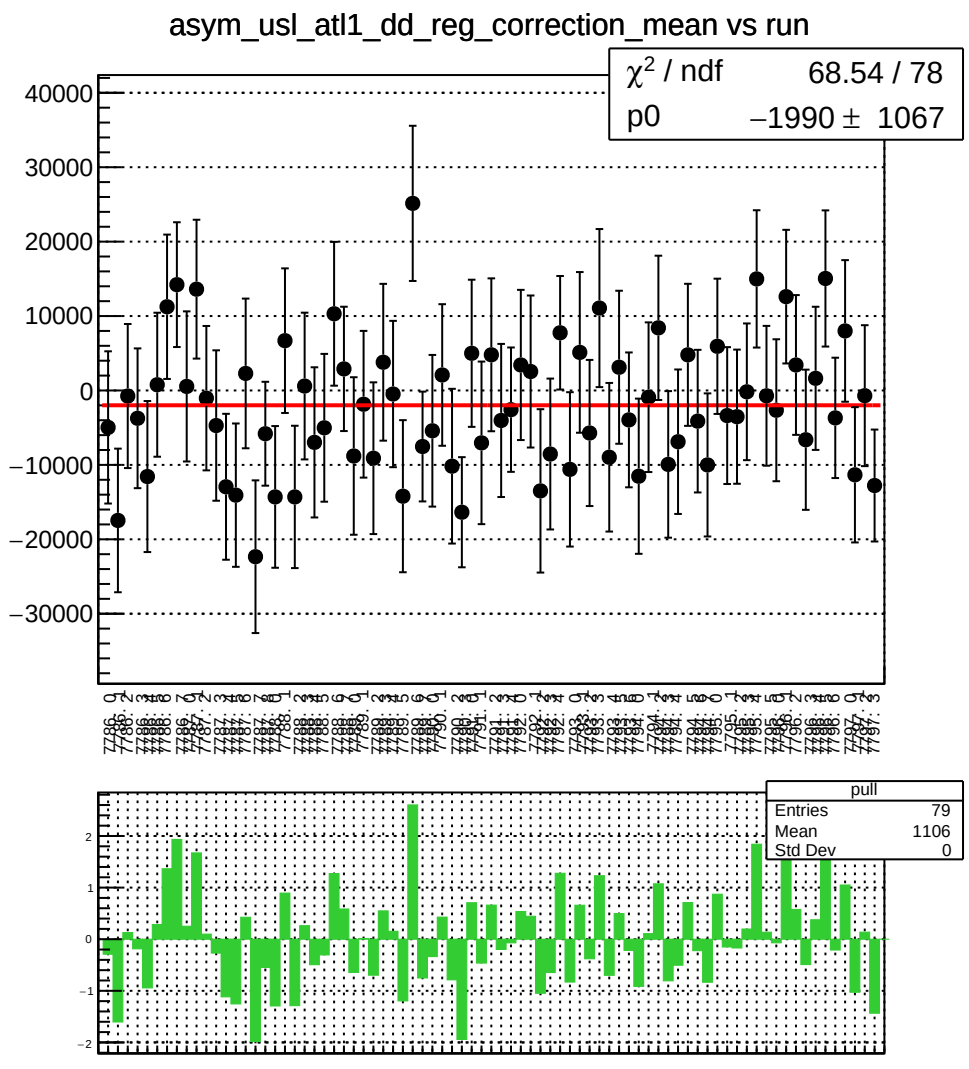

pull1D
Entries 79
Mean 0.03366
Std Dev 0.9321

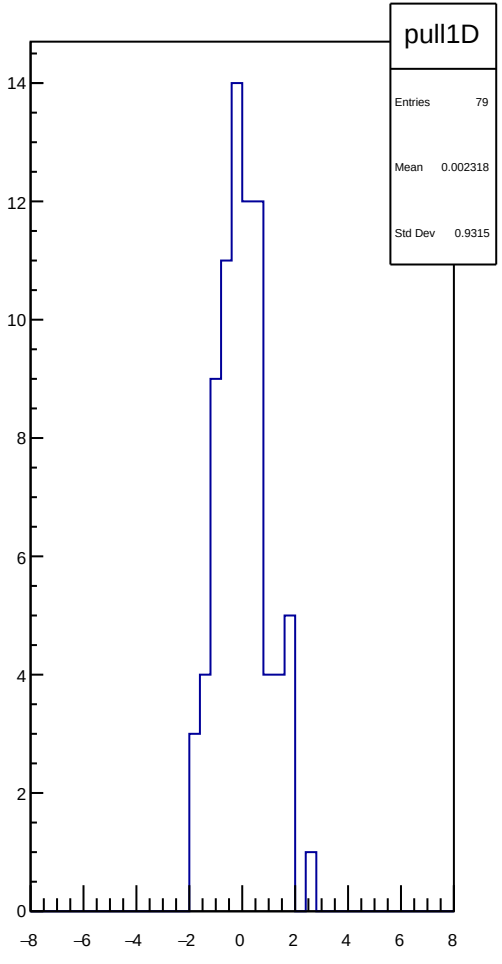

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.047e+05 / 78
p0 2.572e−11 ± 2.825e−14
0.5
0.4
0.3
0.2
0.1

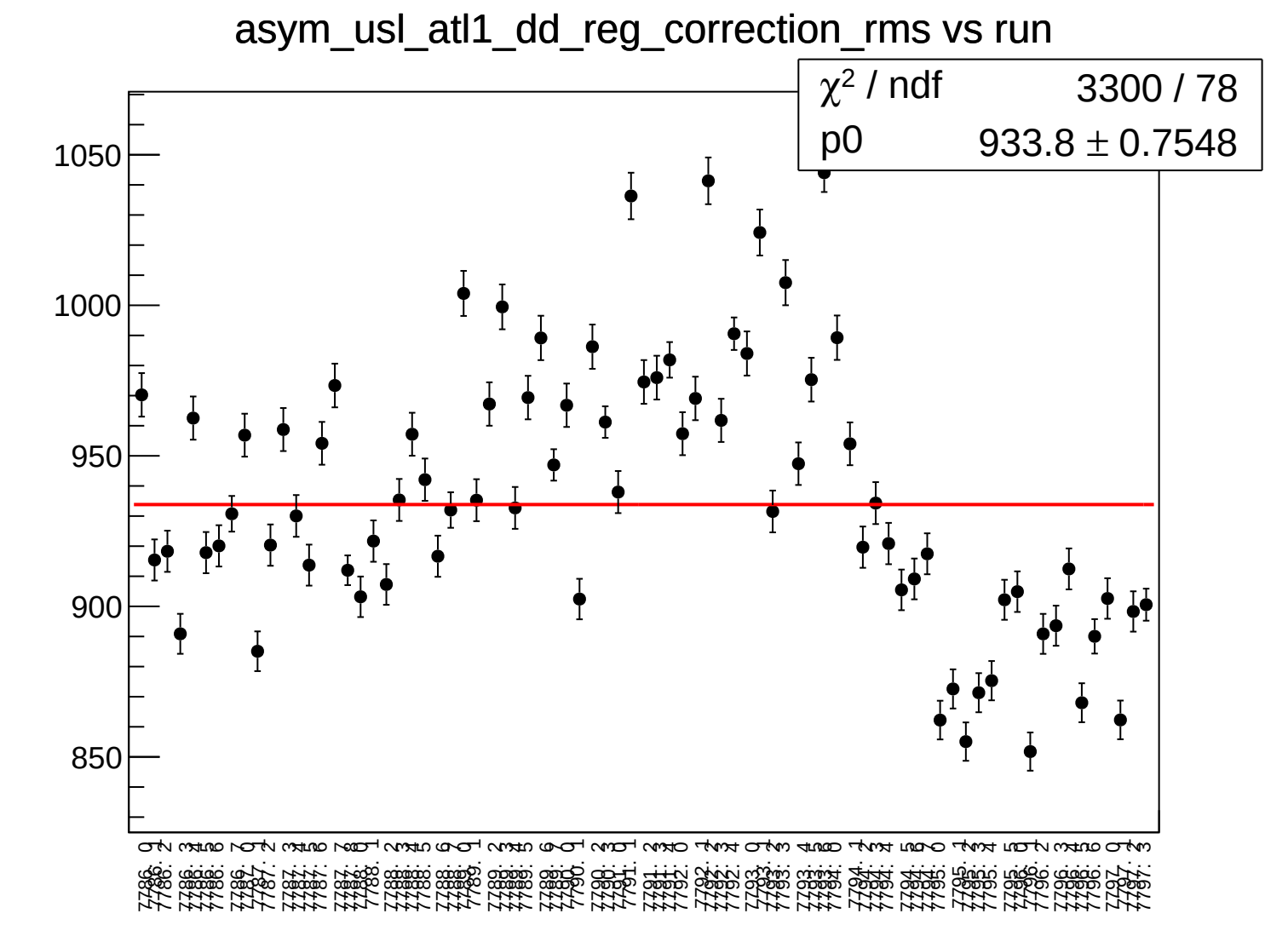

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 62.29 / 78
p0 1338 ± 1279
pull
Entries 79
Mean 779.6
Std Dev 0

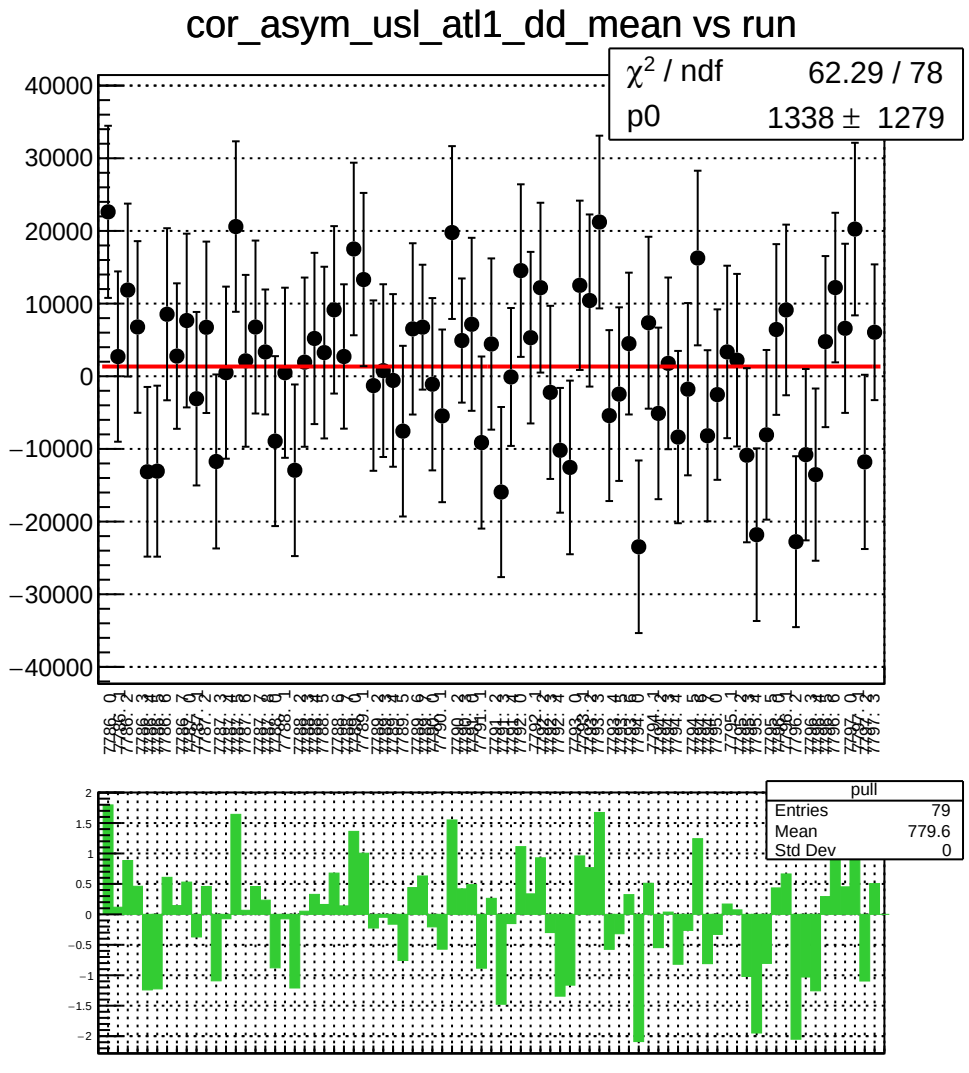

pull1D
Entries 79
Mean −0.004399
Std Dev 0.888

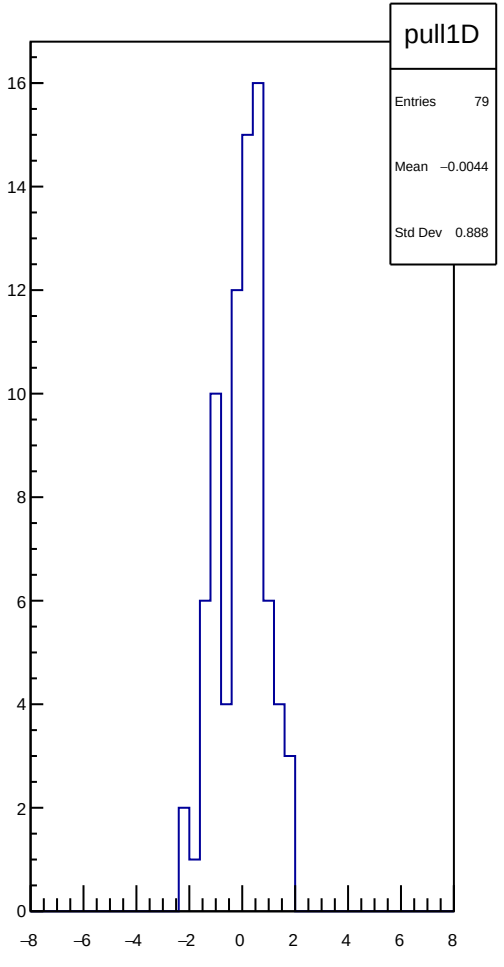

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 99.9 / 78
p0 1120 ± 0.9046
1150
1140
1130
1120
1110
1100
1090
1080

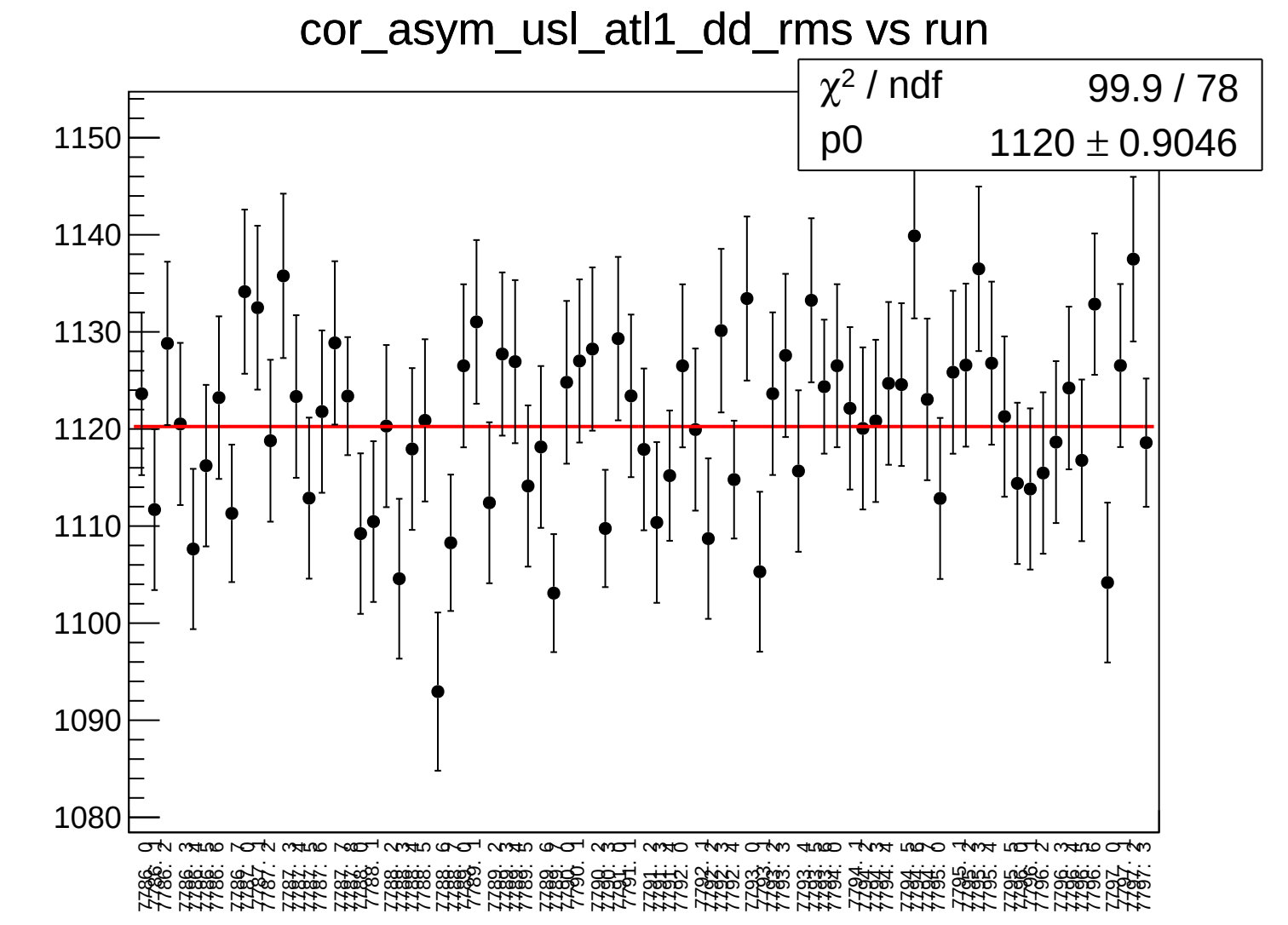

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 68.54 / 78
p0 −1990 ± 1067
pull
Entries 79
Mean 1106
Std Dev 0

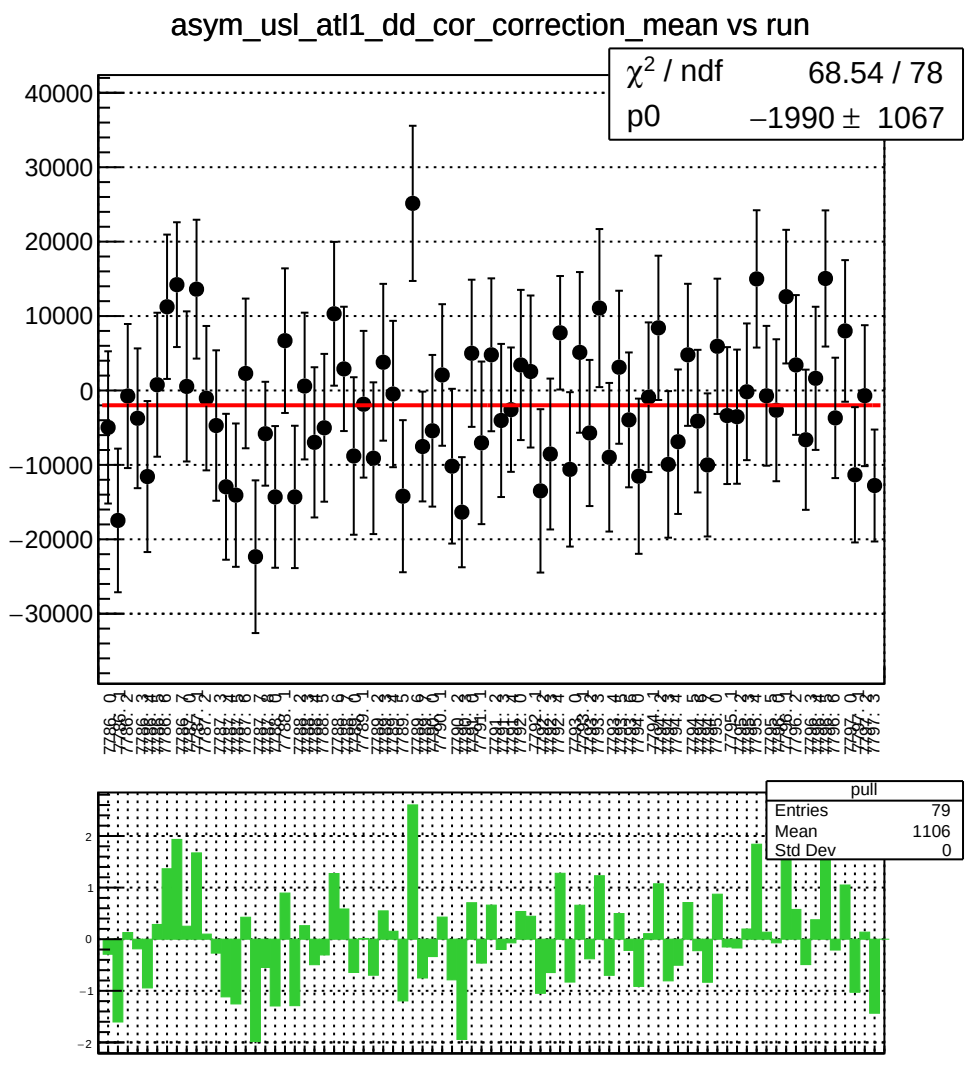

pull1D
Entries 79
Mean 0.002318
Std Dev 0.9315

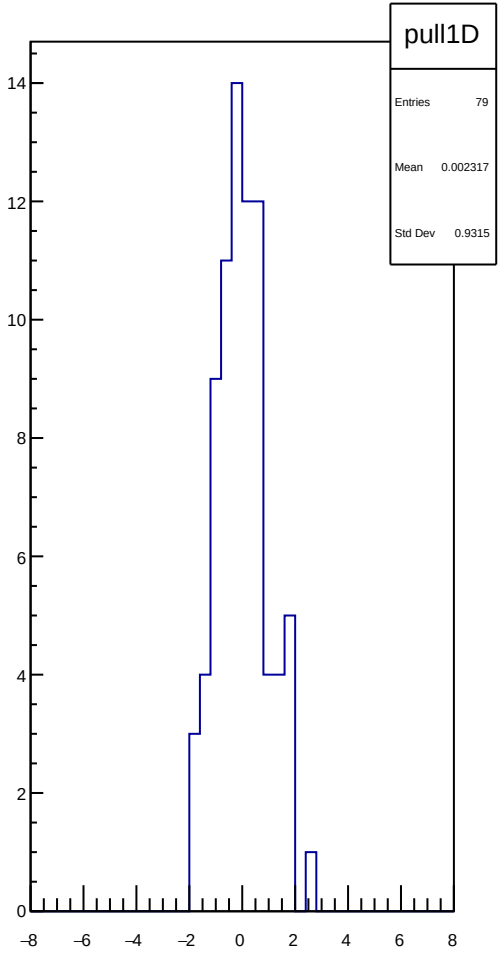

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 3300 / 78
p0 933.8 ± 0.7548
1050
1000
950
900
850

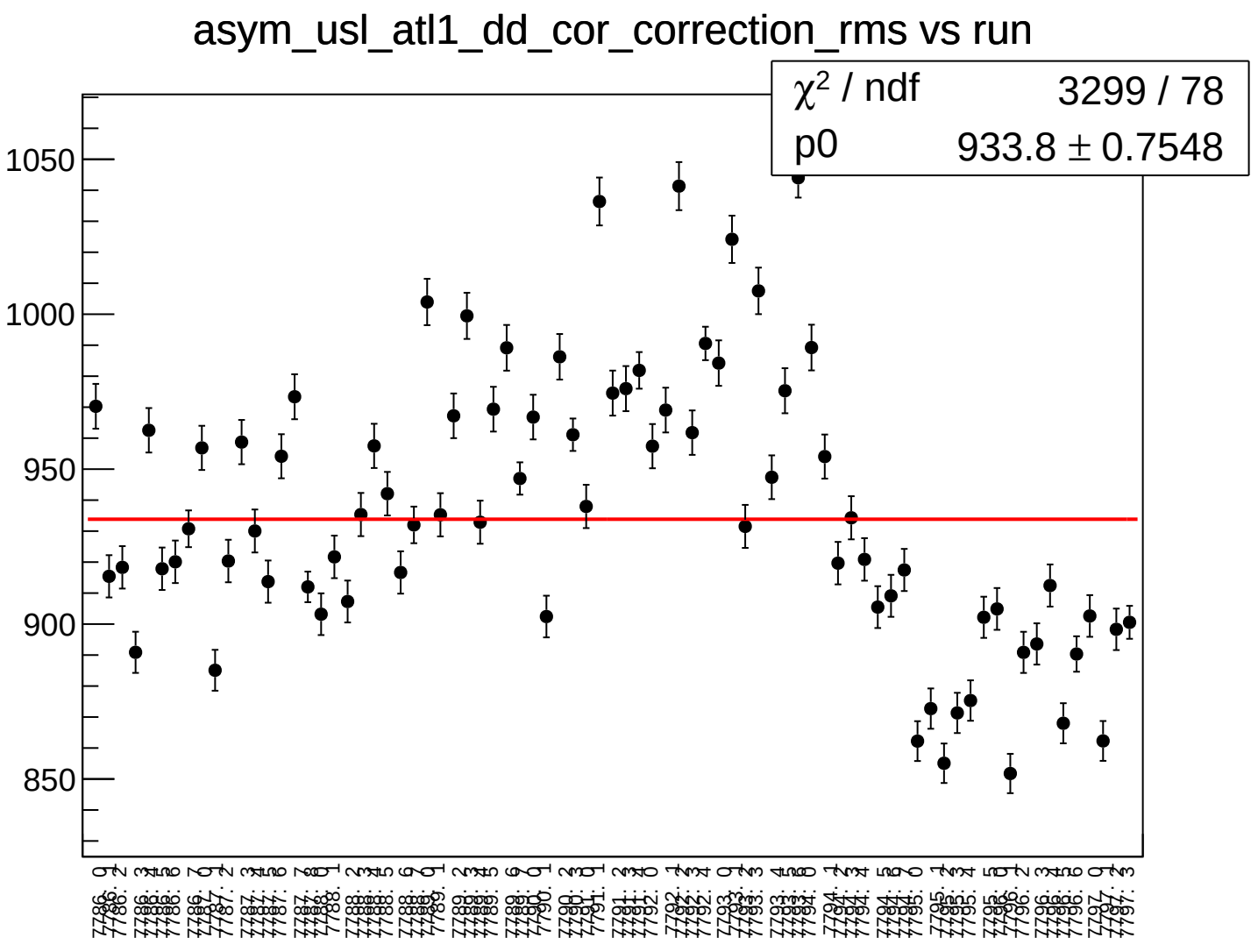

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 62.29 / 78
p0 1338 ± 1279
pull
Entries 79
Mean 779.6
Std Dev 0

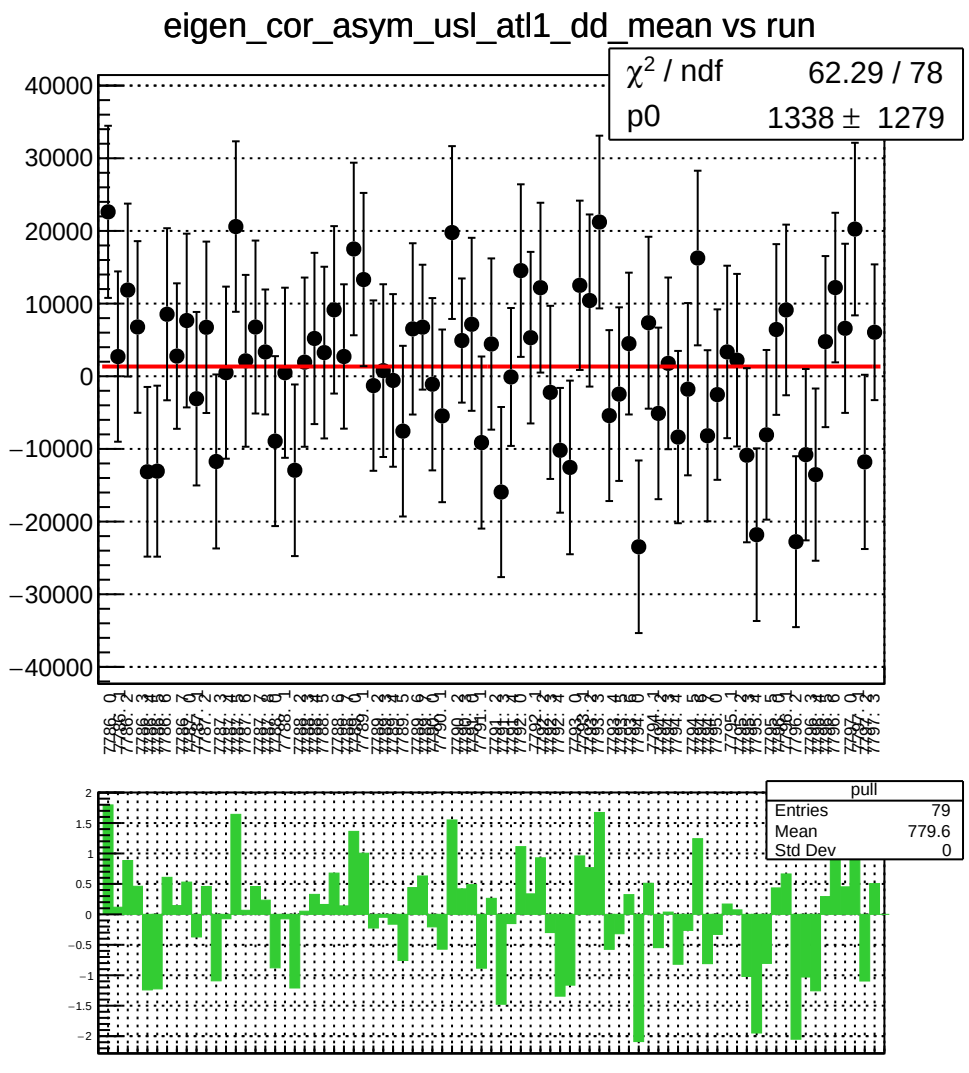

pull1D
Entries 79
Mean −0.0044
Std Dev 0.888

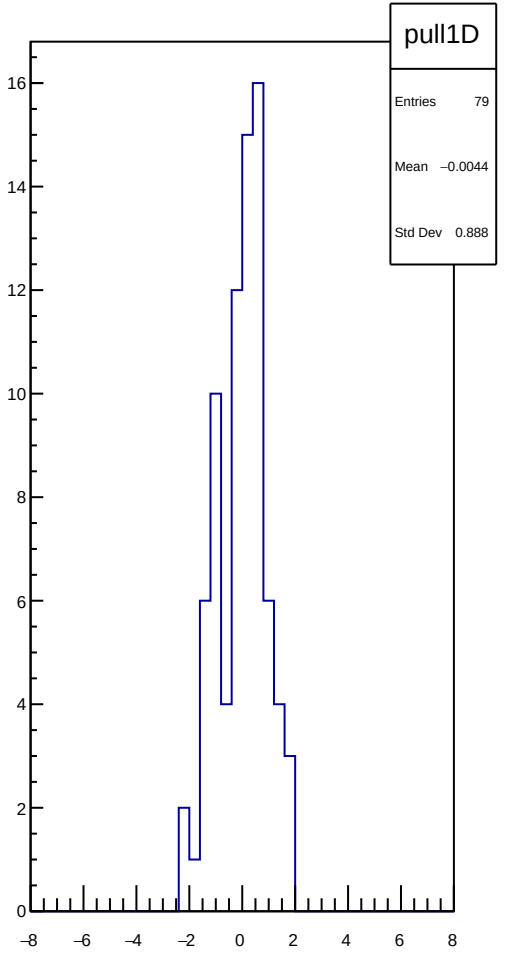

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 99.9 / 78
p0 1120 ± 0.9046
1150
1140
1130
1120
1110
1100
1090
1080

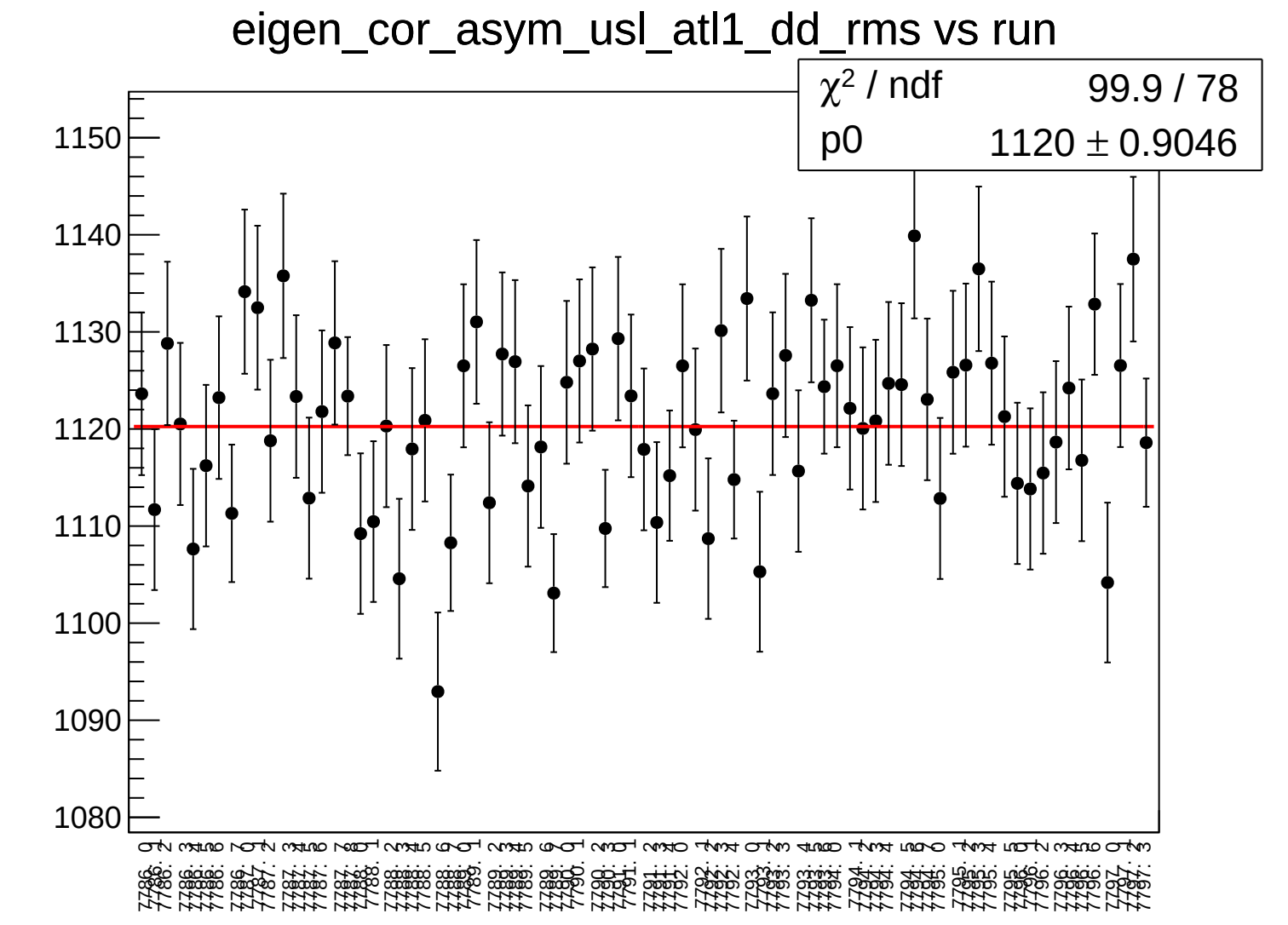

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 68.54 / 78
p0 −1990 ± 1067
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean 1106
Std Dev 0
2
1
0
−1
−2

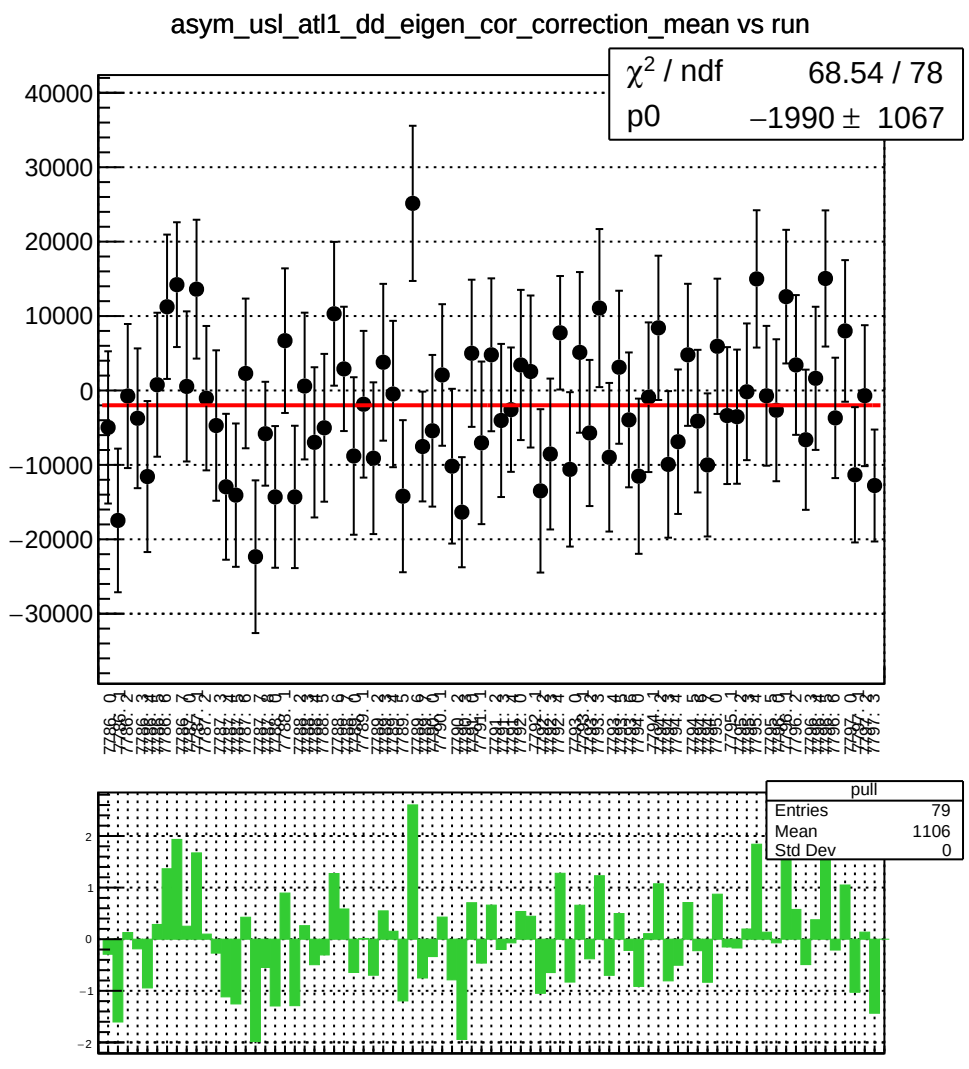

pull1D
Entries 79
Mean 0.002317
Std Dev 0.9315
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

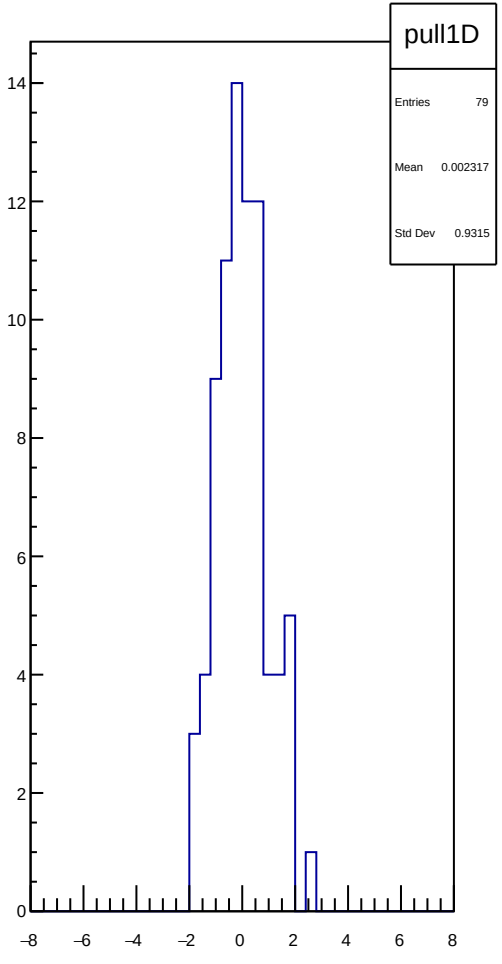

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 3299 / 78
p0 933.8 ± 0.7548
1050
1000
950
900
850

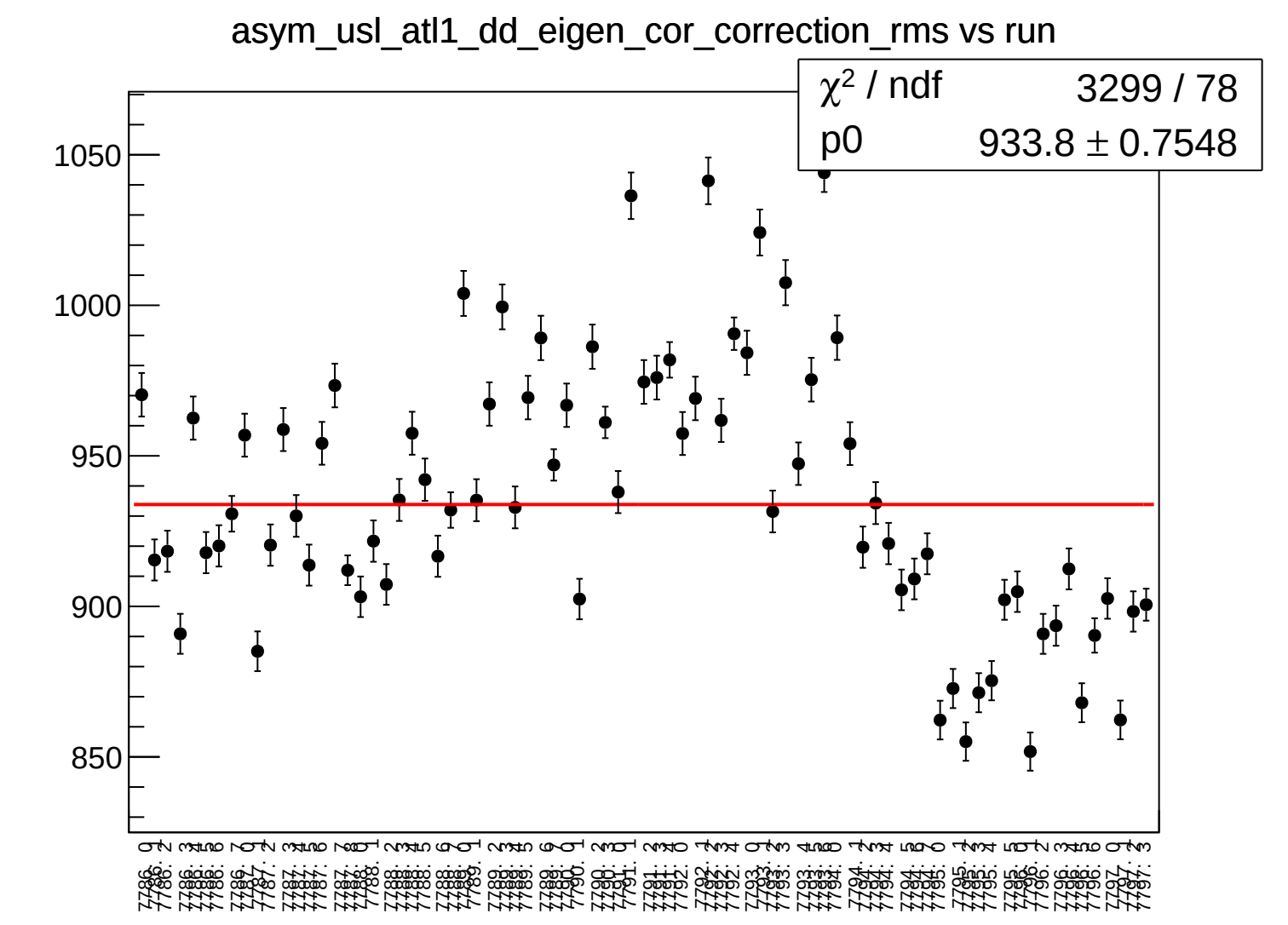

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 62.29 / 78
p0 1338 ± 1279
pull
Entries 79
Mean 779.6
Std Dev 0

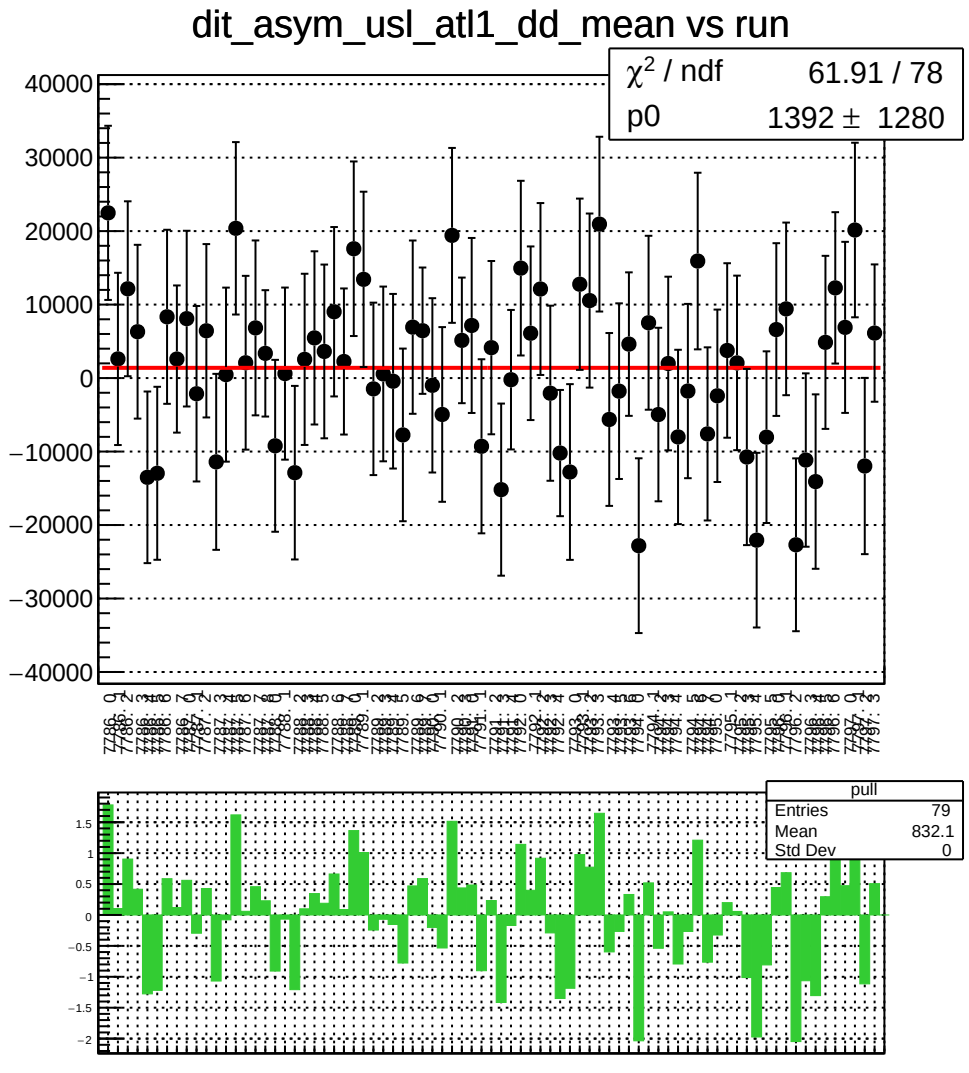

pull1D
Entries 79
Mean −0.0044
Std Dev 0.888

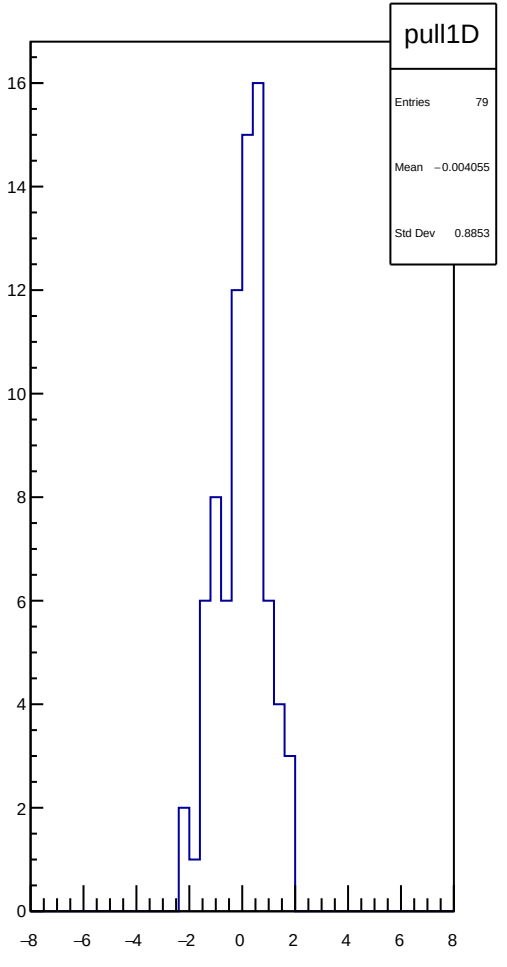

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 99.9 / 78
p0 1120 ± 0.9046
1150
1140
1130
1120
1110
1100
1090
1080

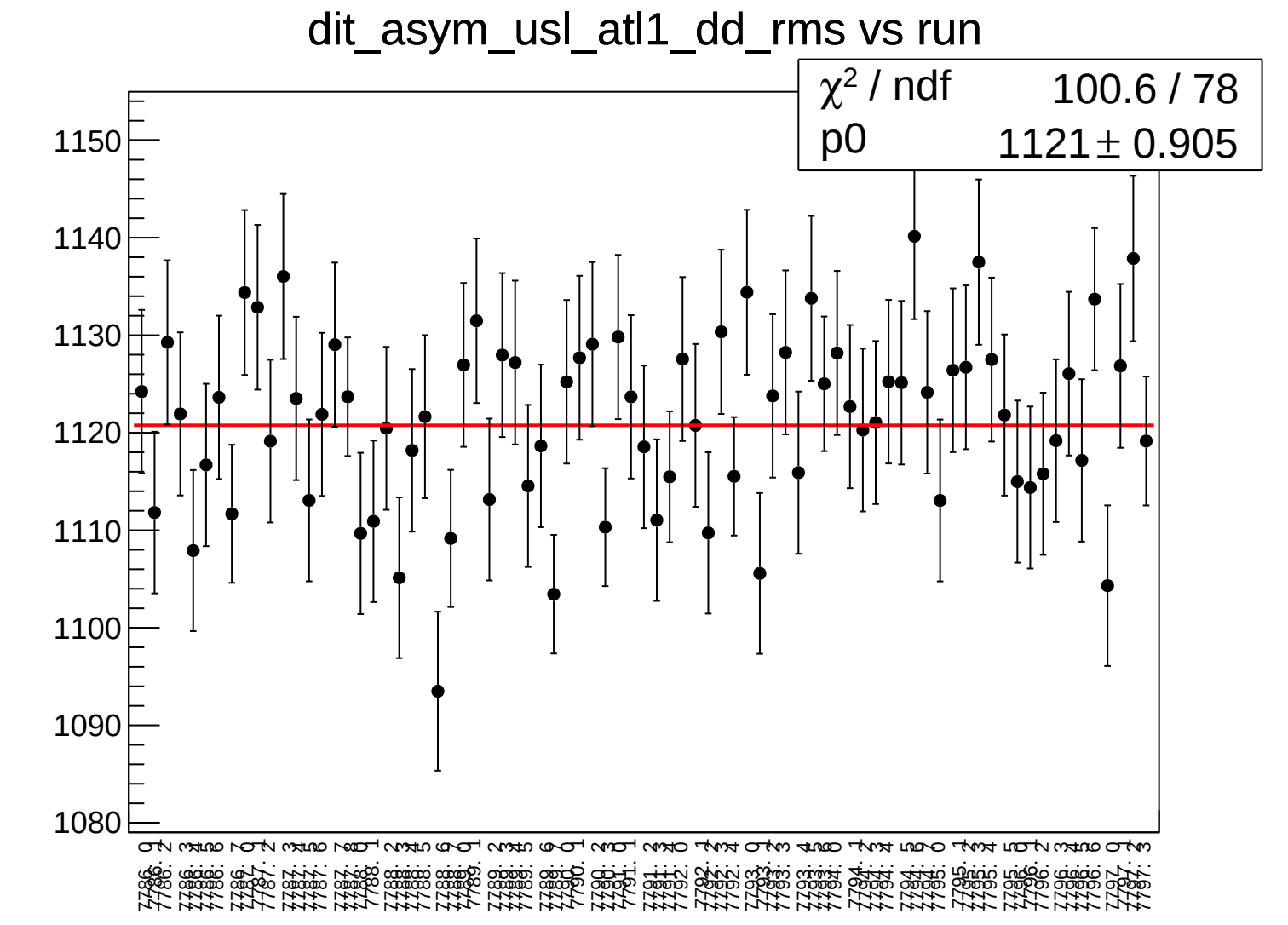

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.54 / 78
p0 −1990 ± 1067
pull
Entries 79
Mean 1106
Std Dev 0

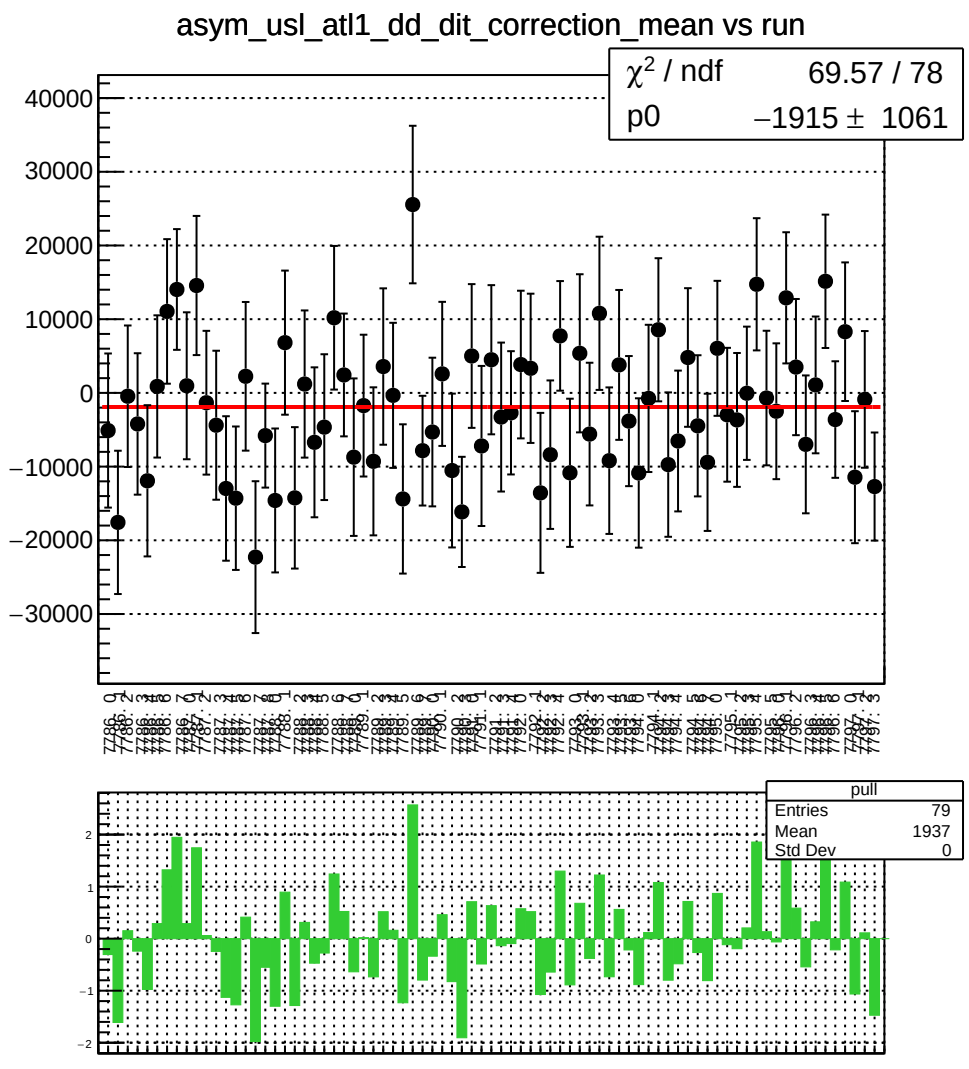

pull1D
Entries 79
Mean 0.002317
Std Dev 0.9315

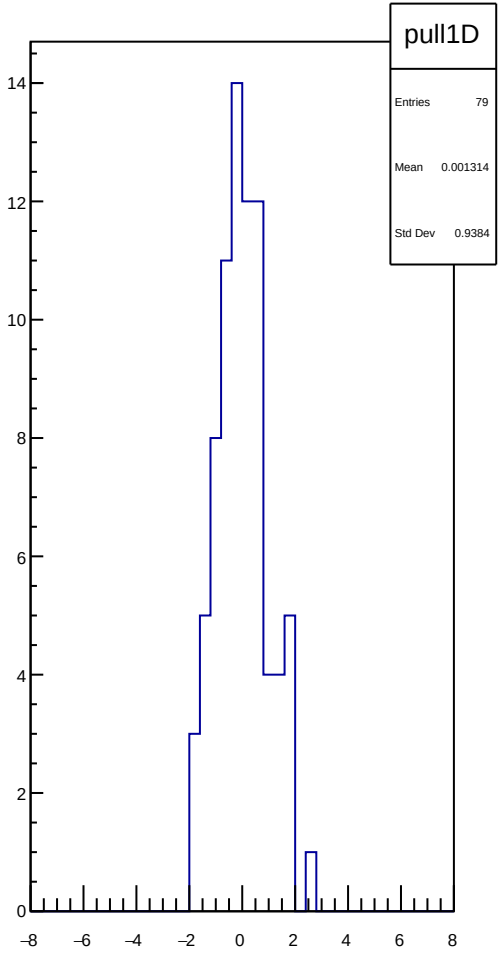

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3299 / 78
p0 933.8 ± 0.7548
1050
1000
950
900
850

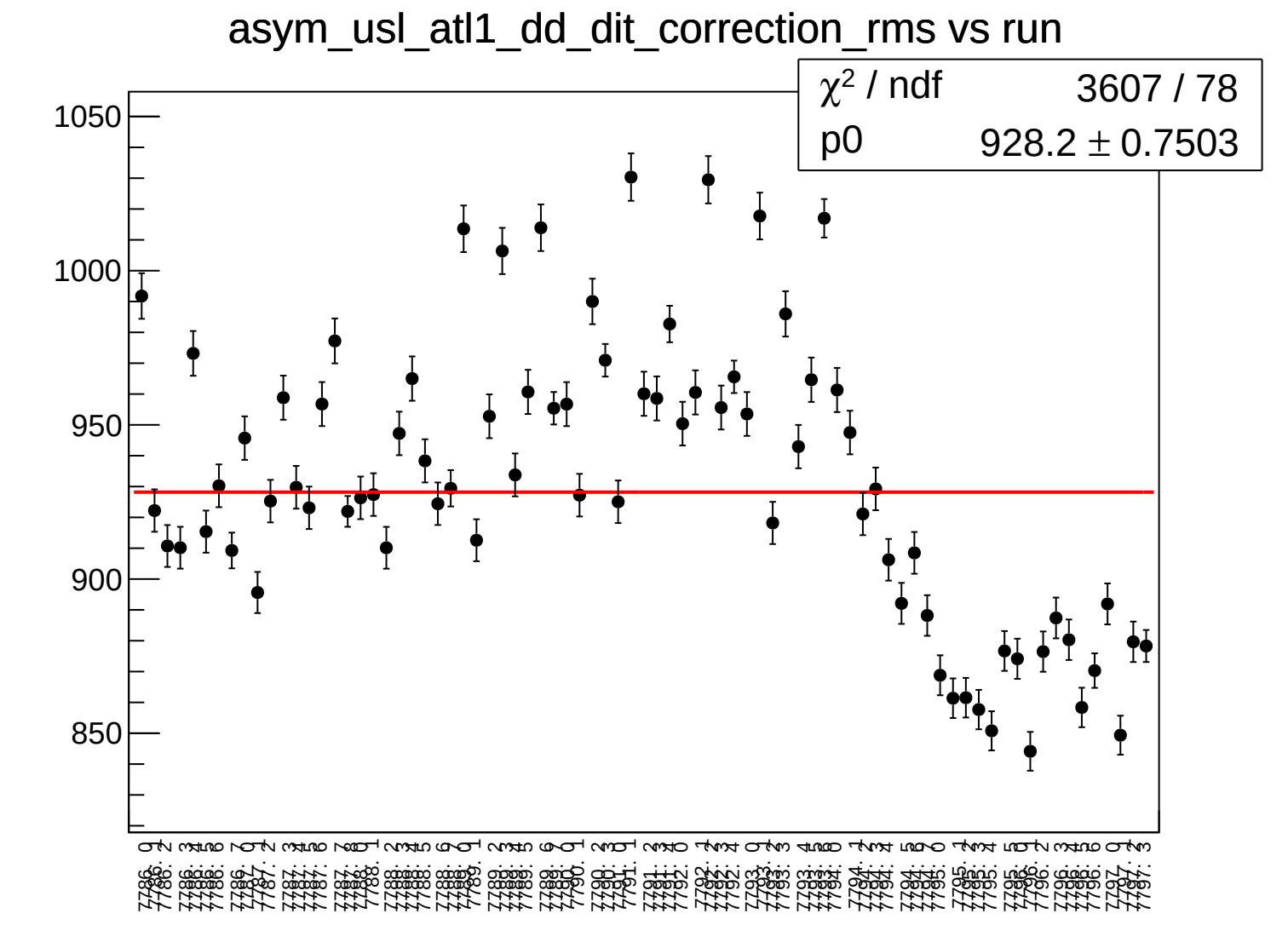

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 61.91 / 78
p0 1392 ± 1280
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 79
Mean 832.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

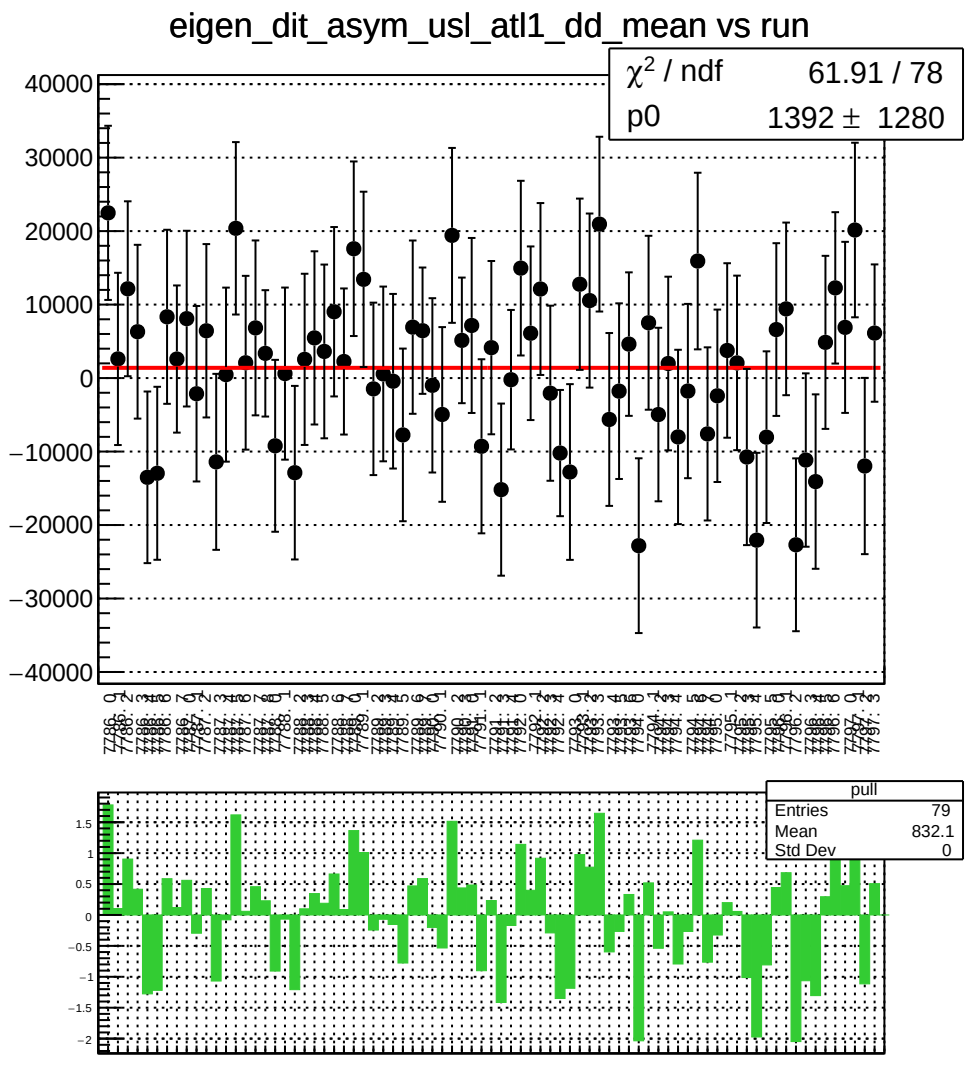

pull1D
Entries 79
Mean −0.004055
Std Dev 0.8853
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

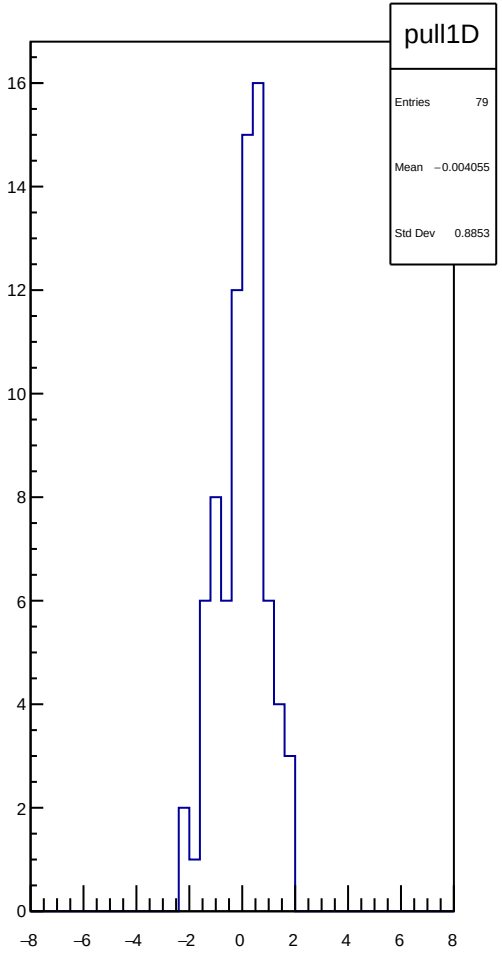

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 100.6 / 78
p0 1121 ± 0.905
1150
1140
1130
1120
1110
1100
1090
1080

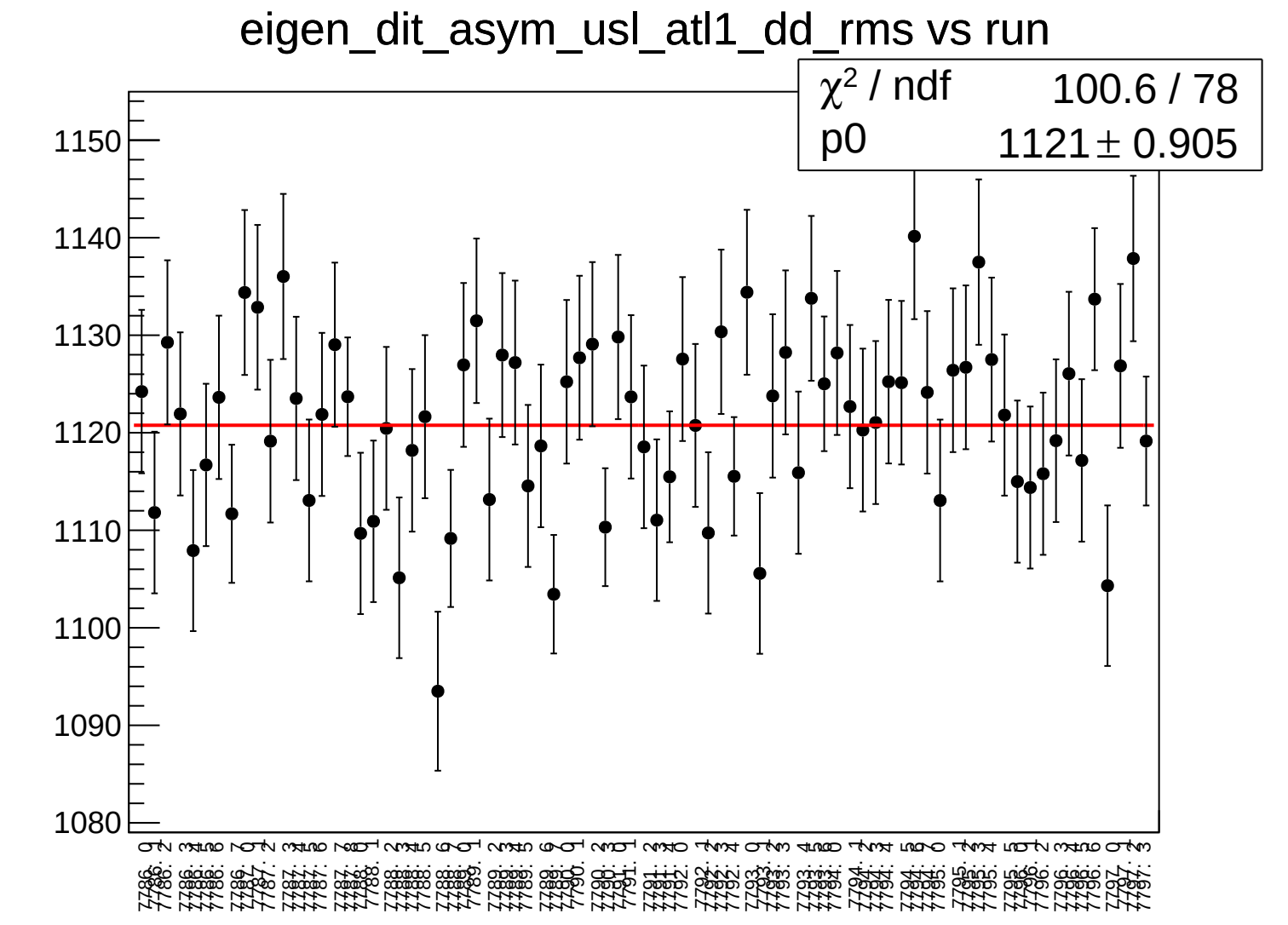

asym_usl_atl1_dd_dit_correction_mean vs run
χ^2 / ndf 69.57 / 78
p0 −1915 ± 1061
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean 1937
Std Dev 0
2
1
0
−1
−2

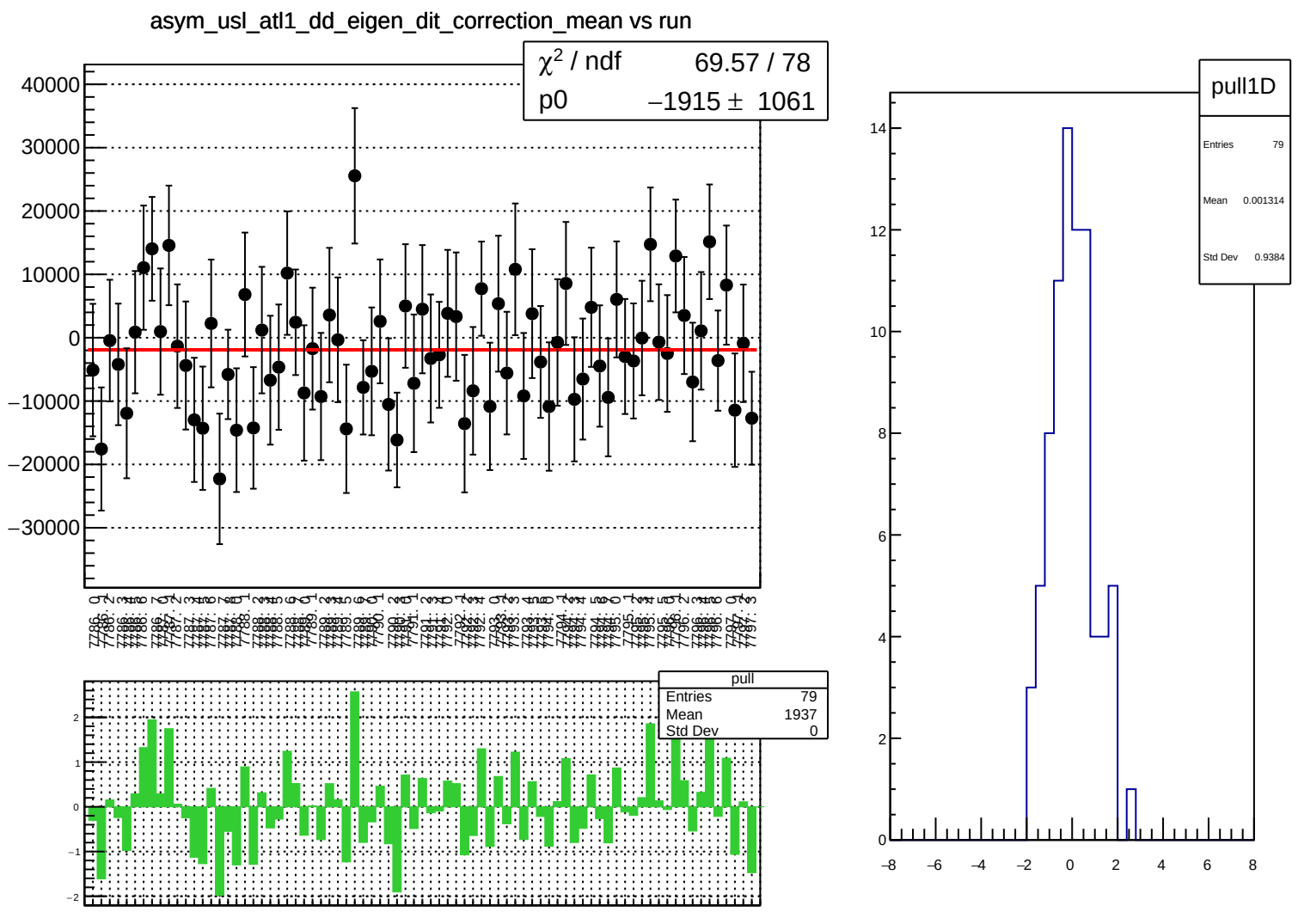

pull1D
Entries 79
Mean 0.001314
Std Dev 0.9384
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

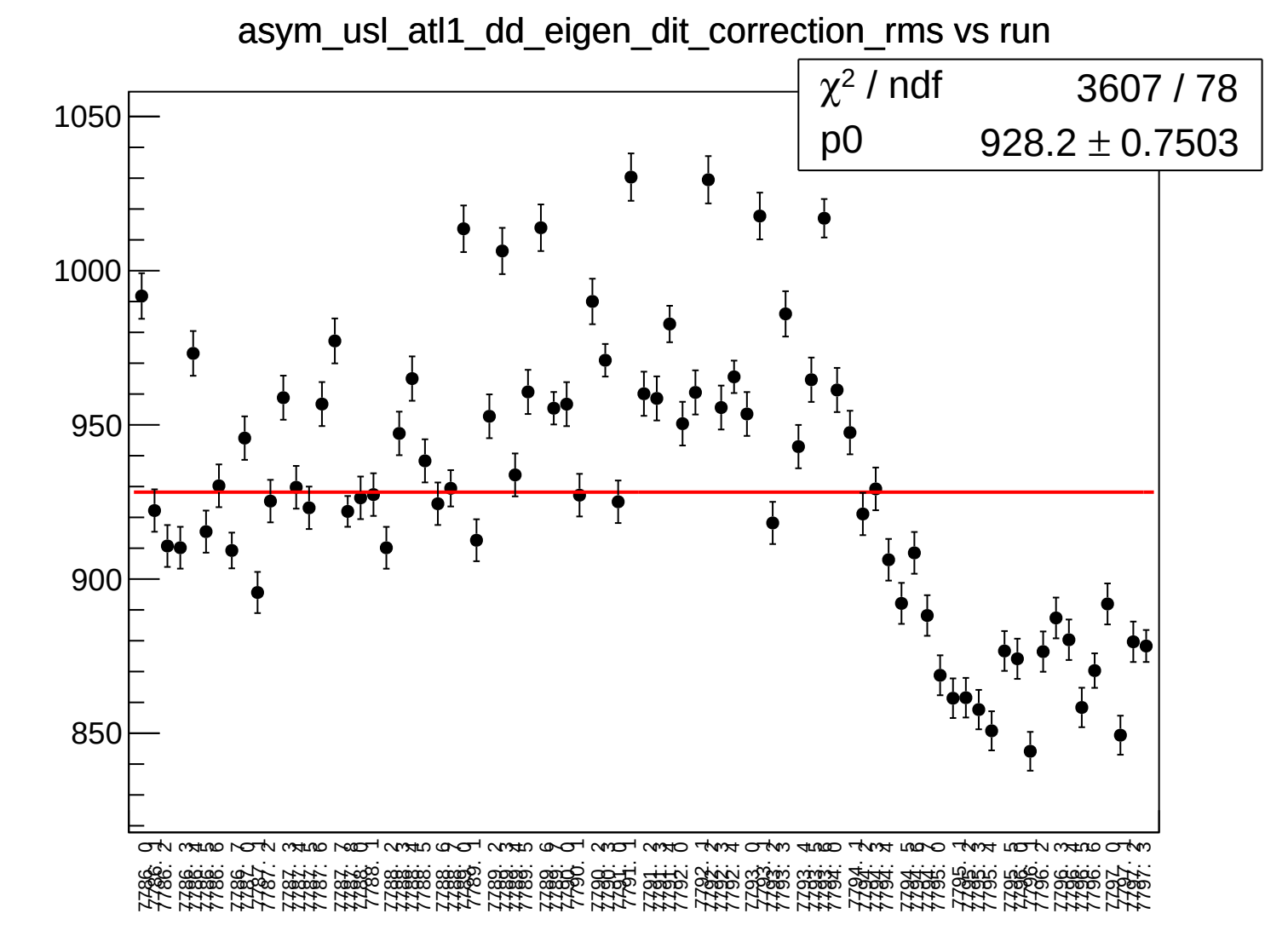

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 3607 / 78
p0 928.2 ± 0.7503
1050
1000
950
900
850

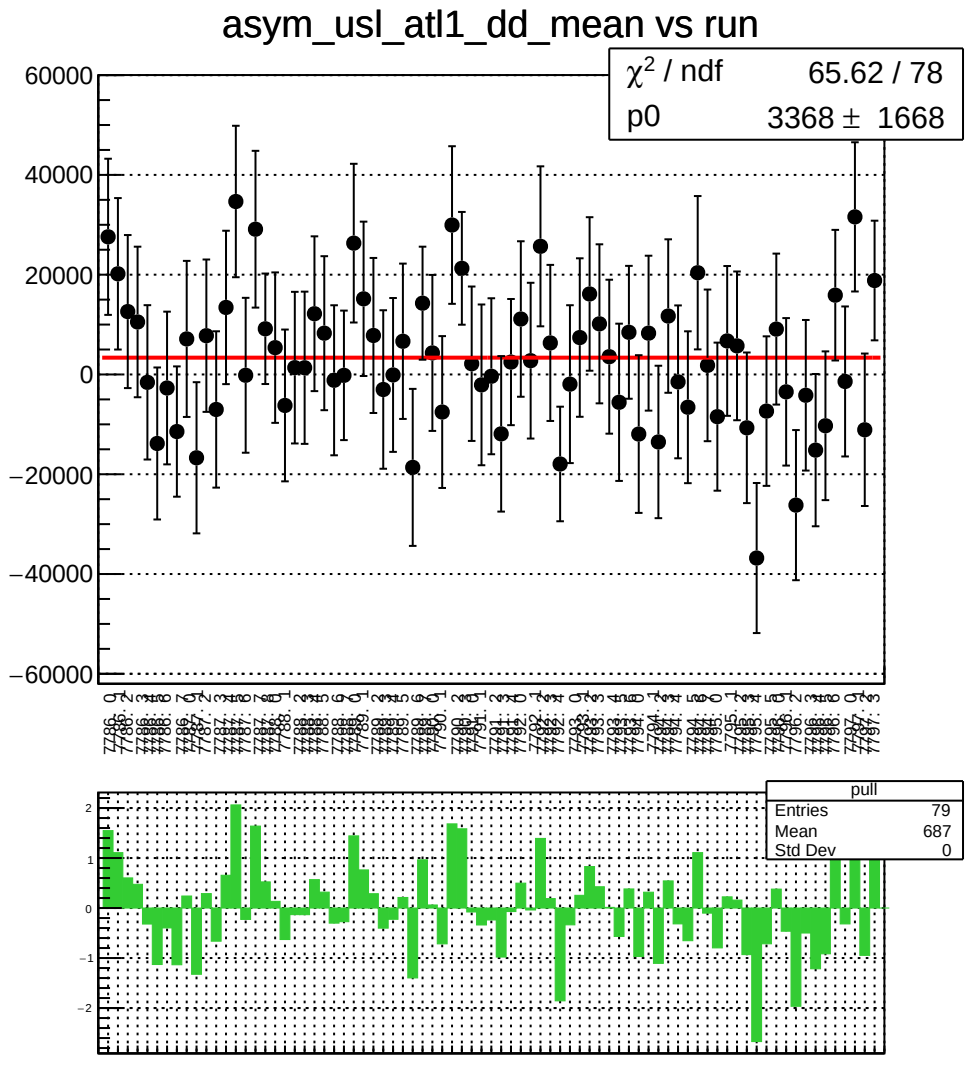

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 61.91 / 78
p0 1392 ± 1280
pull
Entries 79
Mean 832.1
Std Dev 0

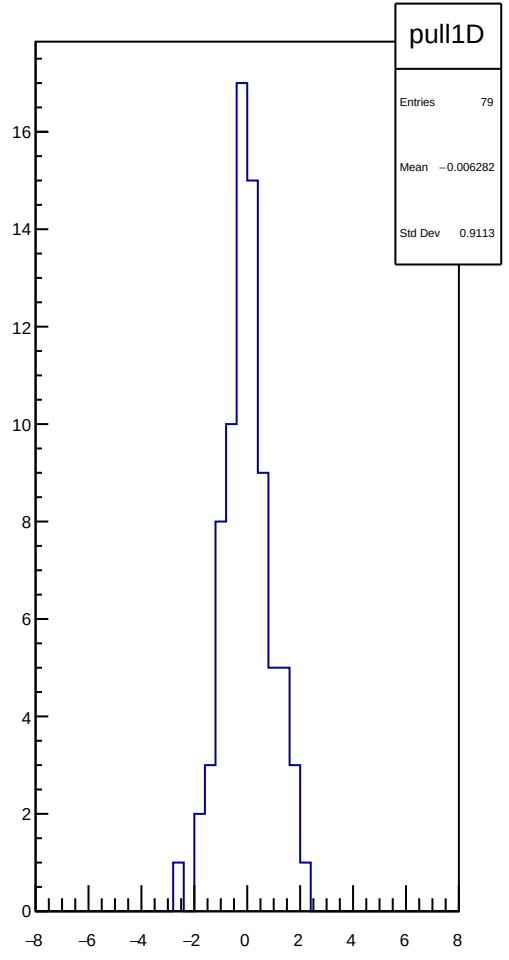

pull1D
Entries 79
Mean −0.004055
Std Dev 0.8853

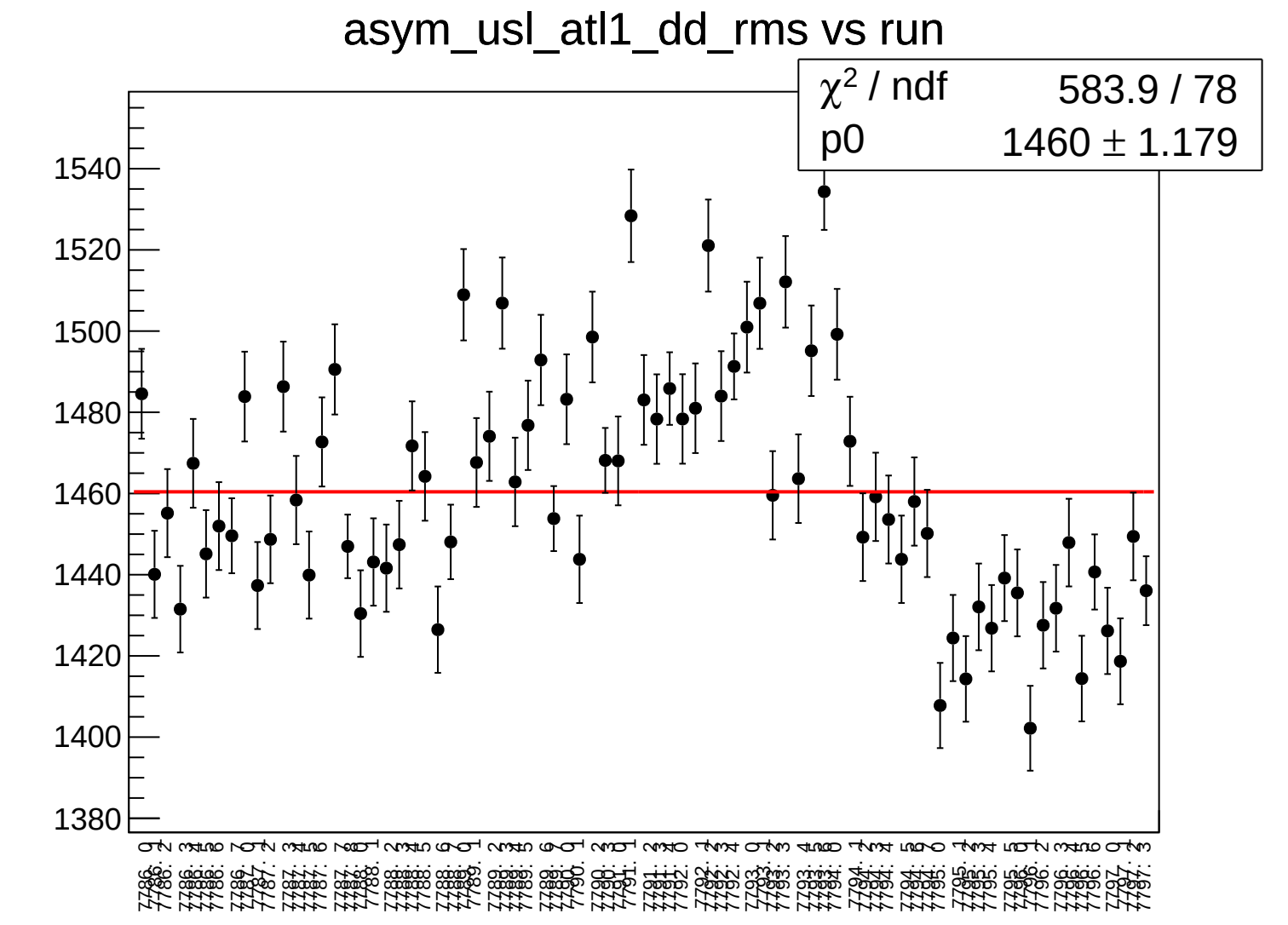

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 100.6 / 78
p0 1121 ± 0.905
1150
1140
1130
1120
1110
1100
1090
1080

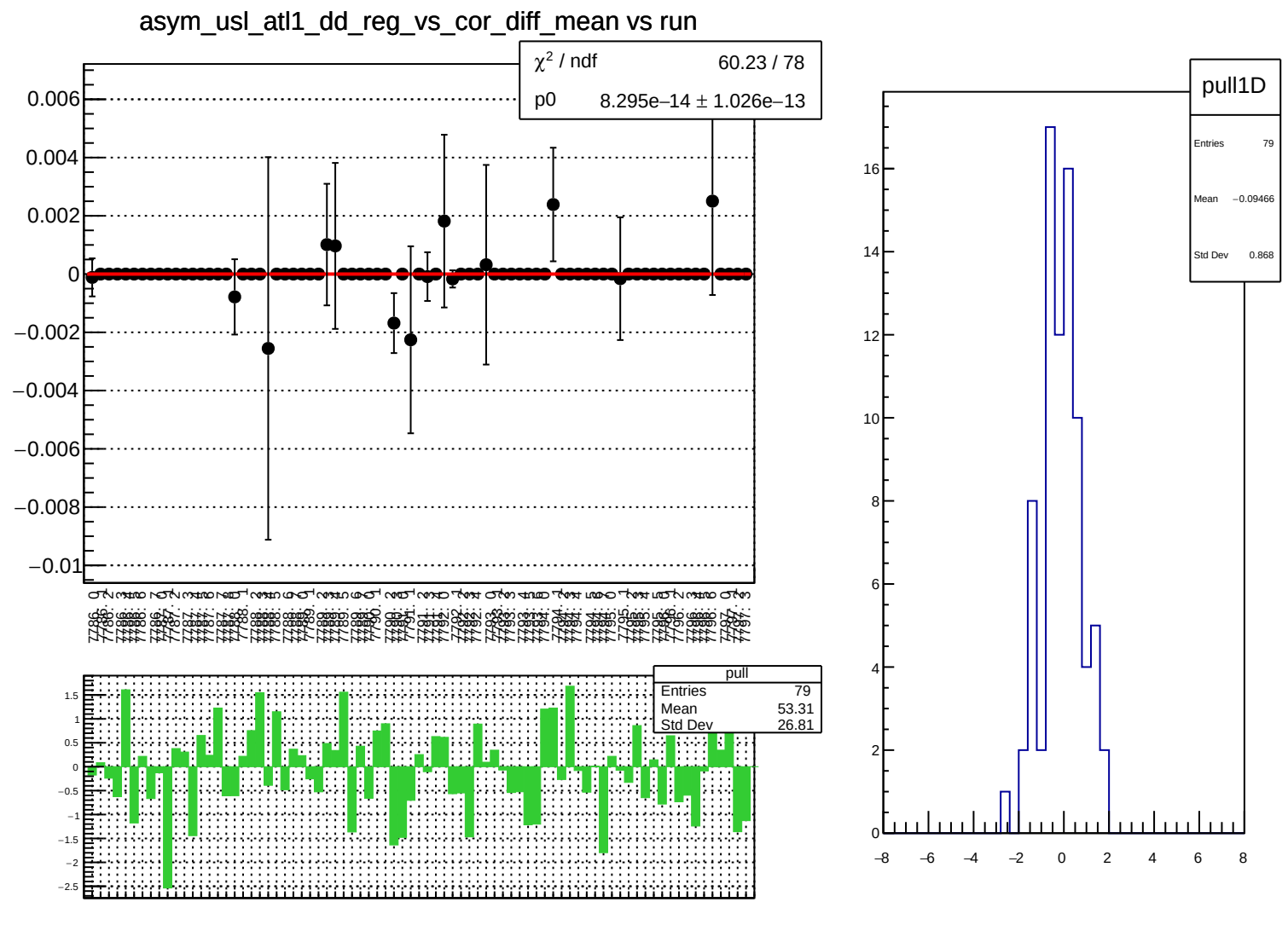

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.57 / 78
p0 −1915 ± 1061
pull
Entries 79
Mean 1937
Std Dev 0
pull1D
Entries 79
Mean 0.001314
Std Dev 0.9384

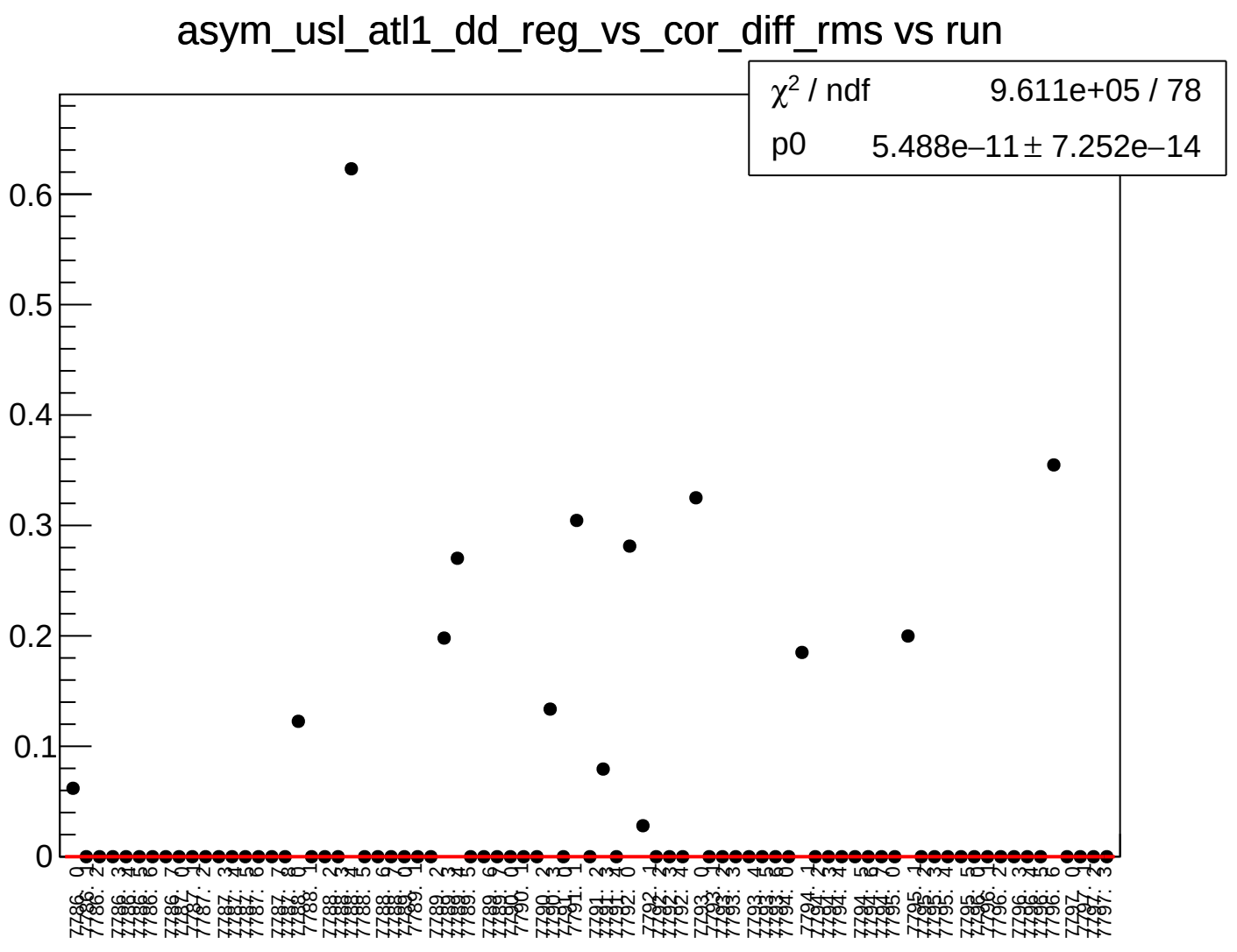

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3607 / 78
p0 928.2 ± 0.7503
1050
1000
950
900
850

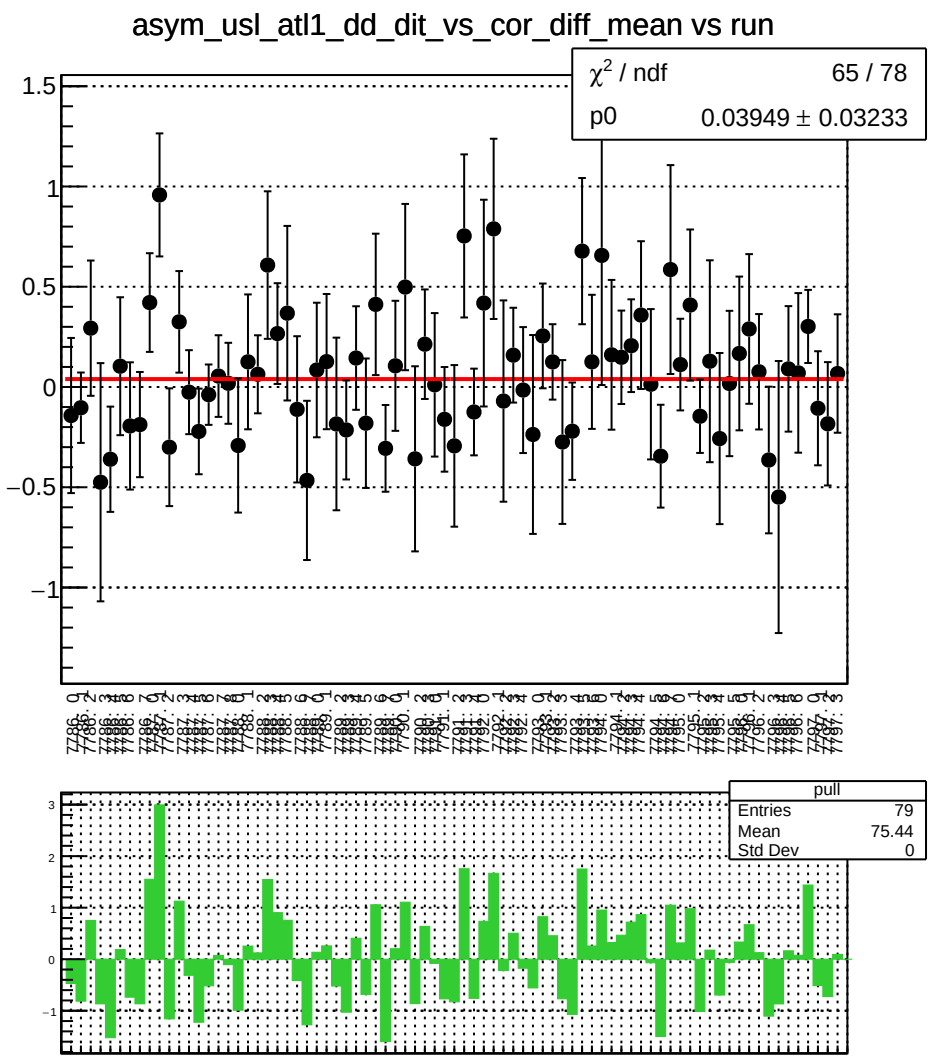

asym_usl_atl1_dd_mean vs run
χ² / ndf 65.62 / 78
p0 3368 ± 1668
pull
Entries 79
Mean 687
Std Dev 0

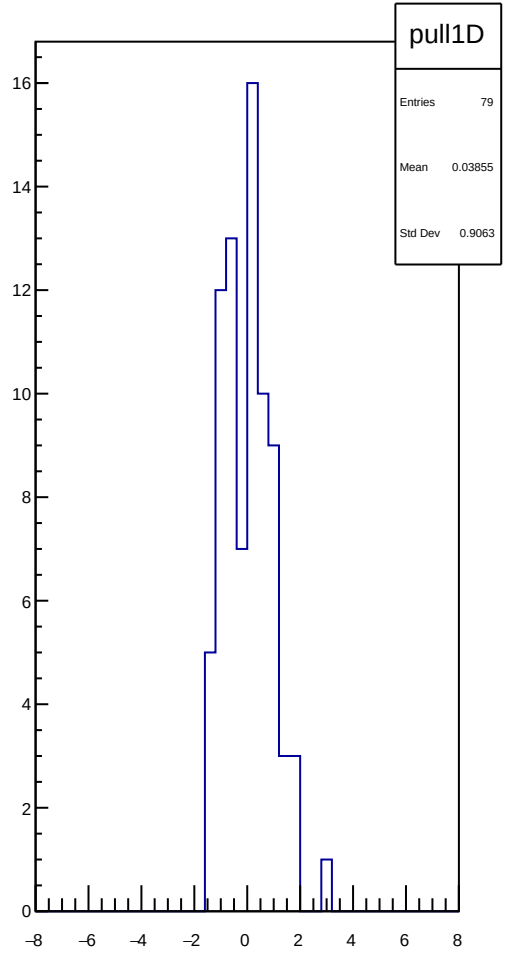

pull1D
Entries 79
Mean −0.006282
Std Dev 0.9113

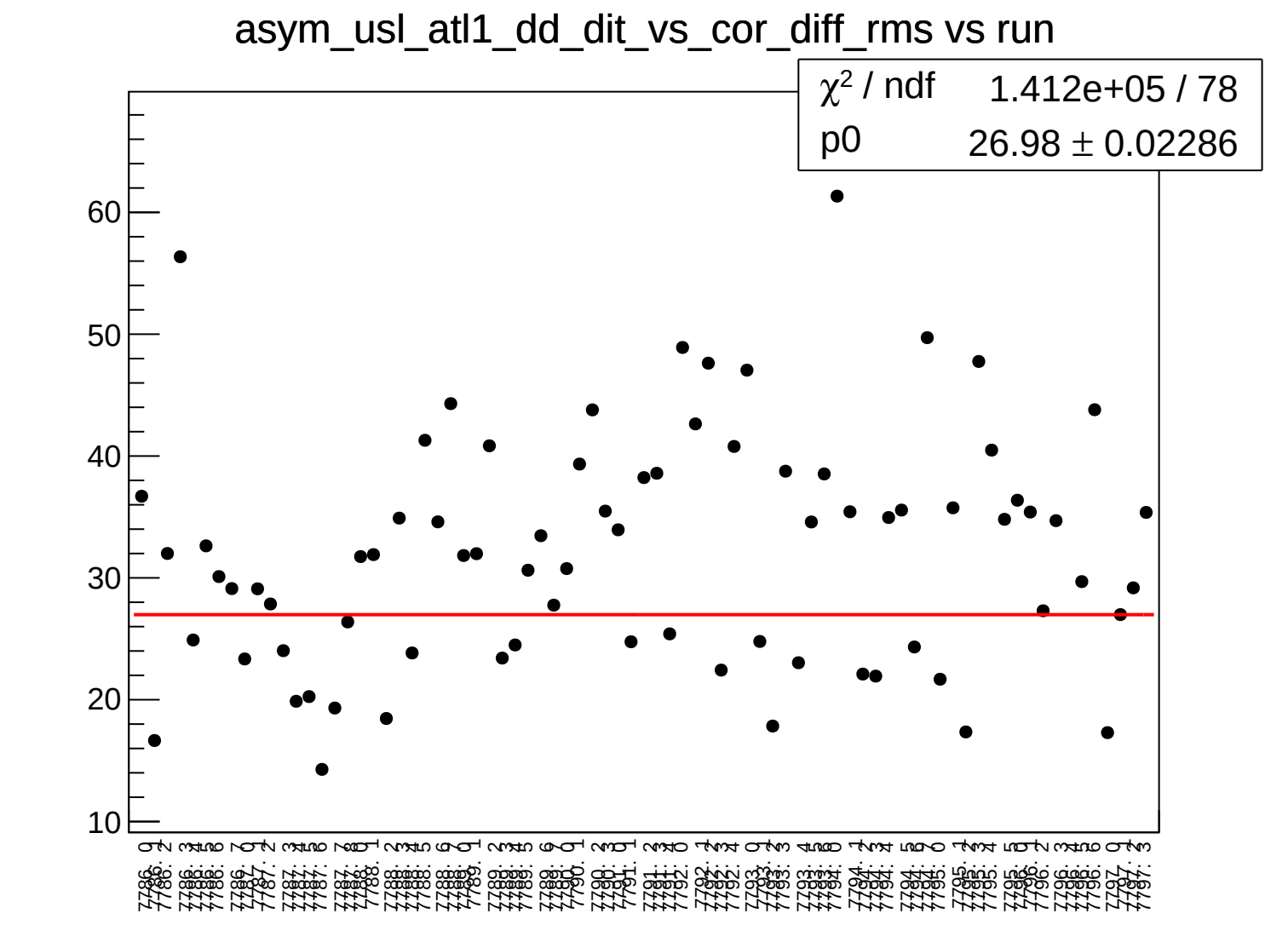

asym_usl_atl1_dd_rms vs run
χ² / ndf 583.9 / 78
p0 1460 ± 1.179
1540
1520
1500
1480
1460
1440
1420
1400
1380

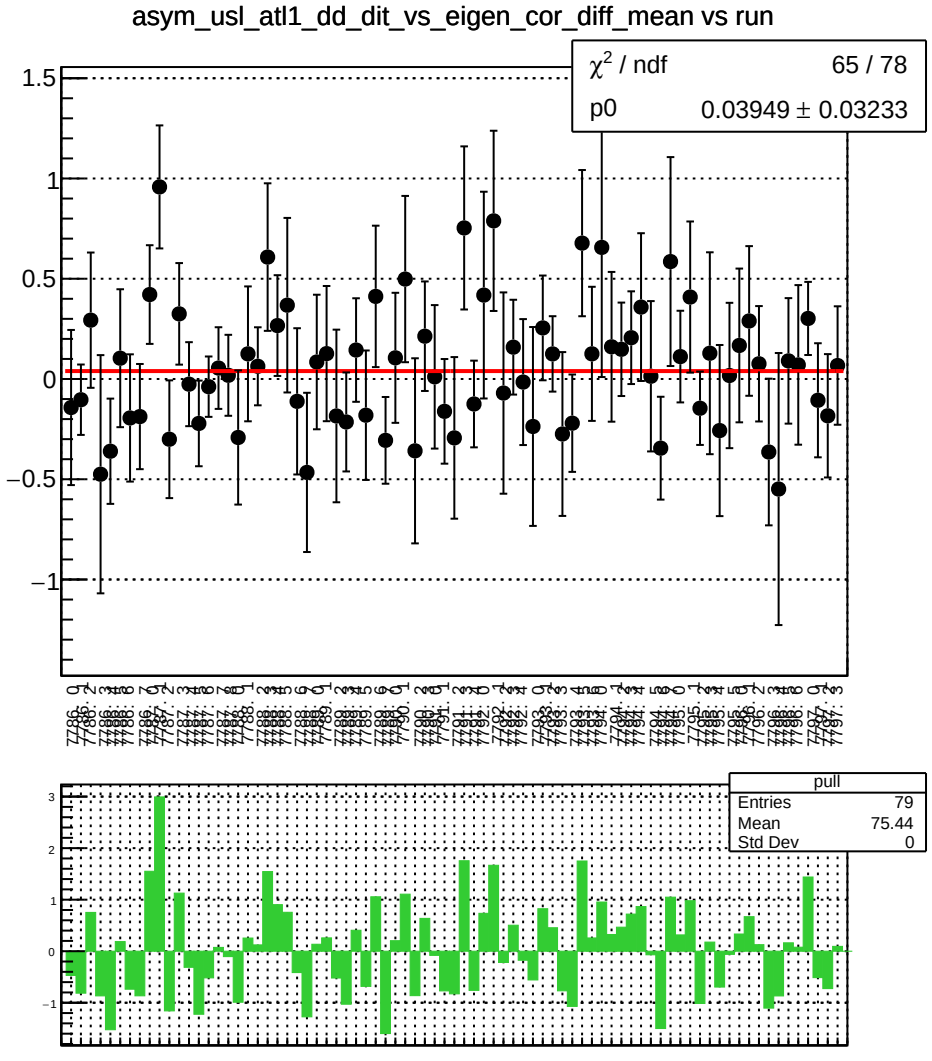

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 60.23 / 78
p0 8.295e−14 ± 1.026e−13
pull
Entries 79
Mean 53.31
Std Dev 26.81
pull1D
Entries 79
Mean −0.09466
Std Dev 0.868

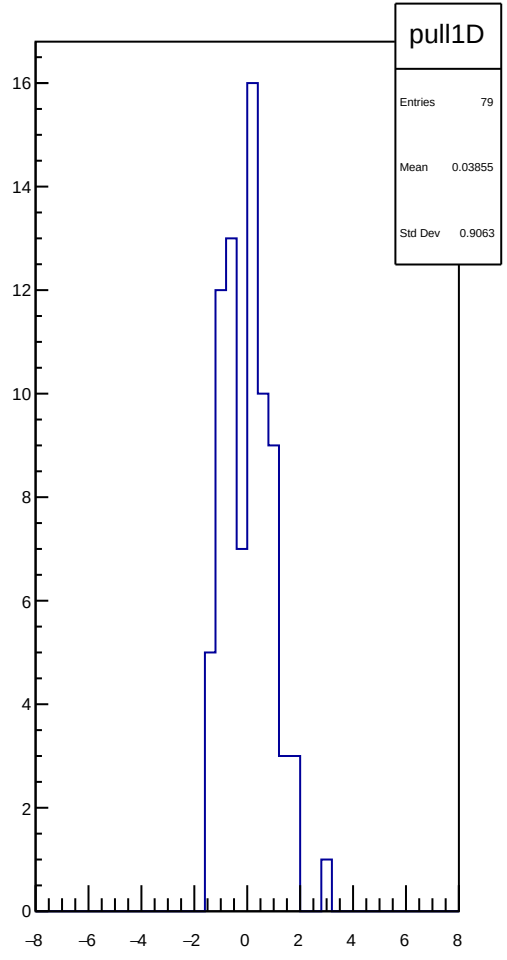

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.611e+05 / 78
p0 5.488e−11 ± 7.252e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

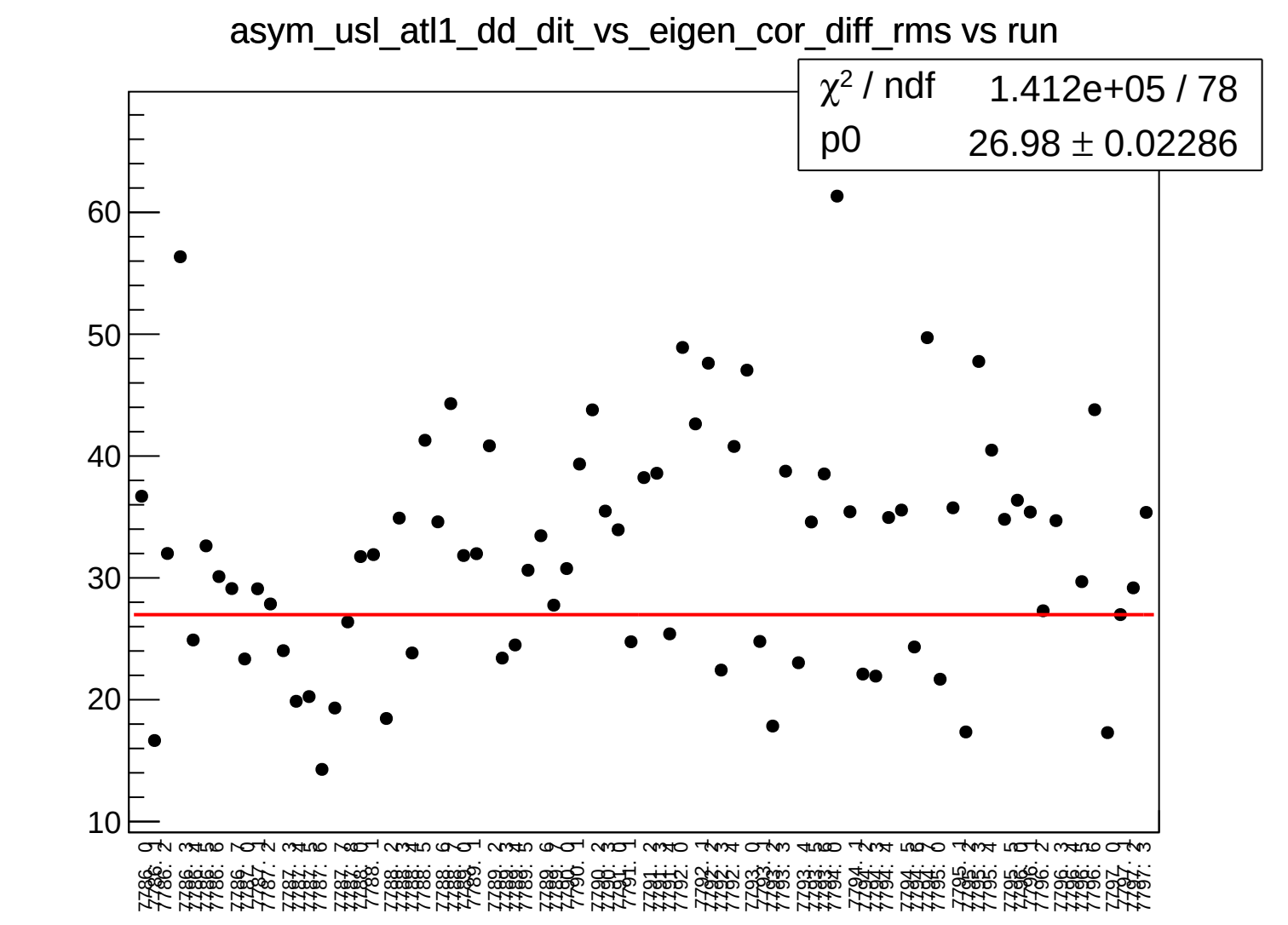

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65 / 78
p0 0.03949 ± 0.03233
pull
Entries 79
Mean 75.44
Std Dev 0

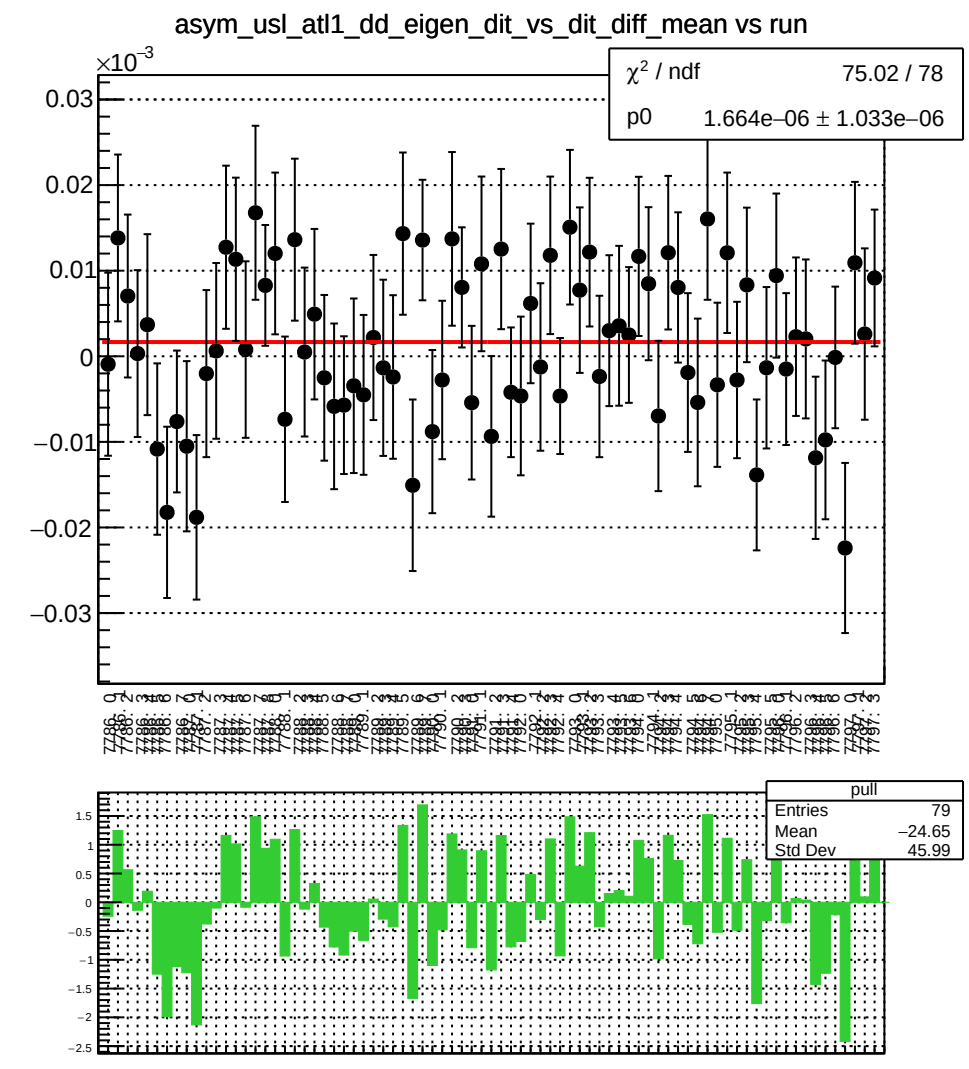

pull1D
Entries 79
Mean 0.03855
Std Dev 0.9063

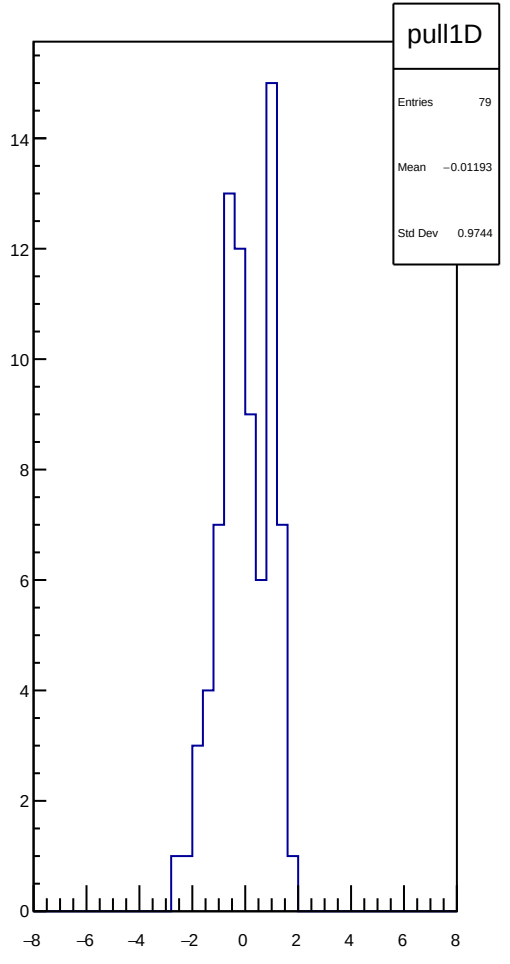

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 78
p0 26.98 ± 0.02286
60
50
40
30
20
10

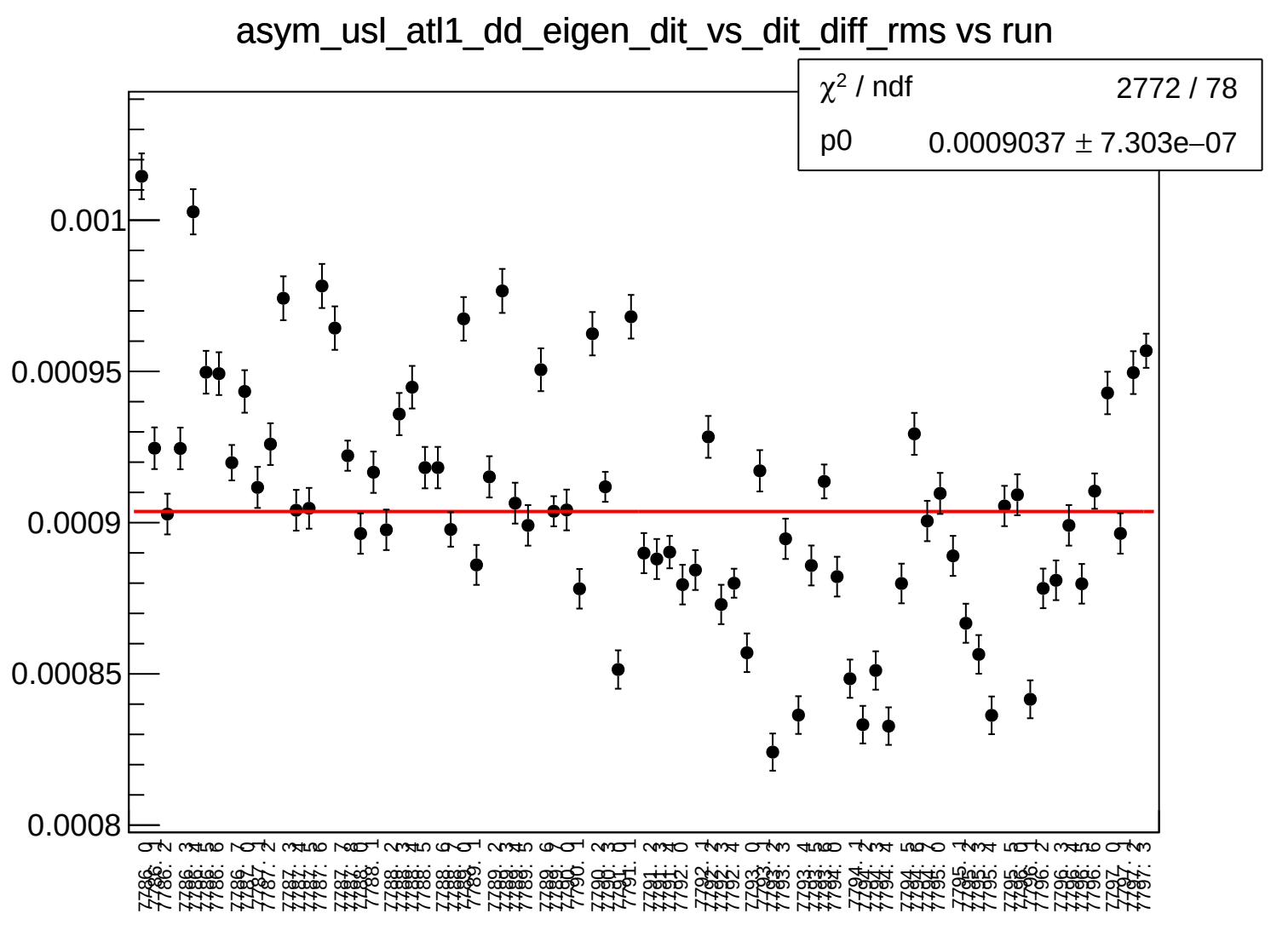

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65 / 78
p0 0.03949 ± 0.03233
pull
Entries 79
Mean 75.44
Std Dev 0

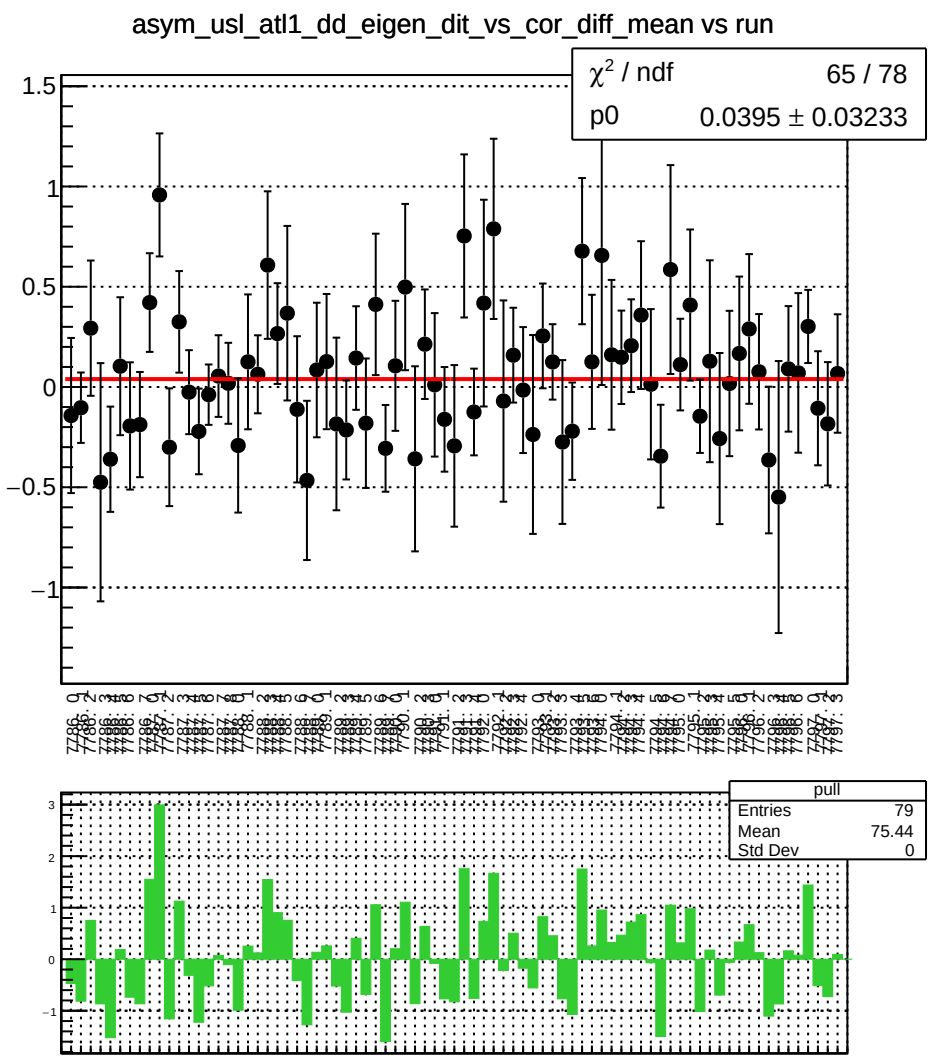

pull1D
Entries 79
Mean 0.03855
Std Dev 0.9063

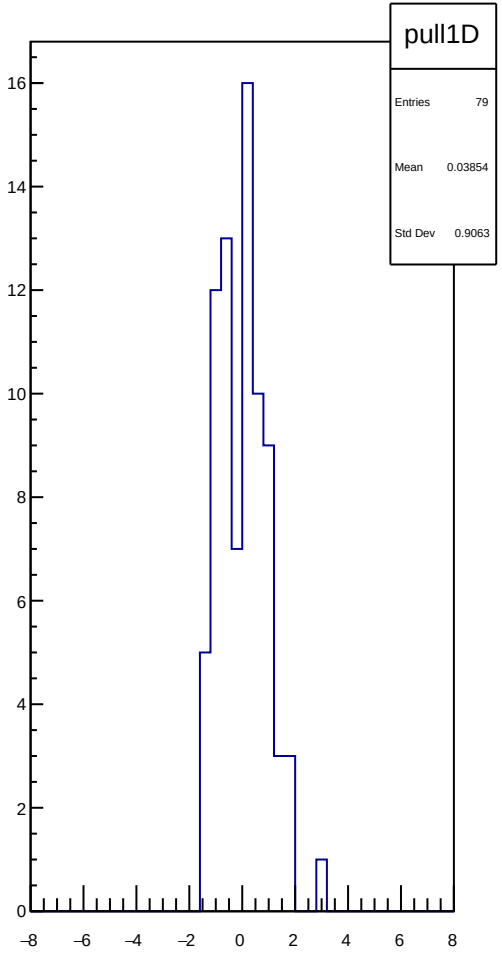

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 78
p0 26.98 ± 0.02286
60
50
40
30
20
10

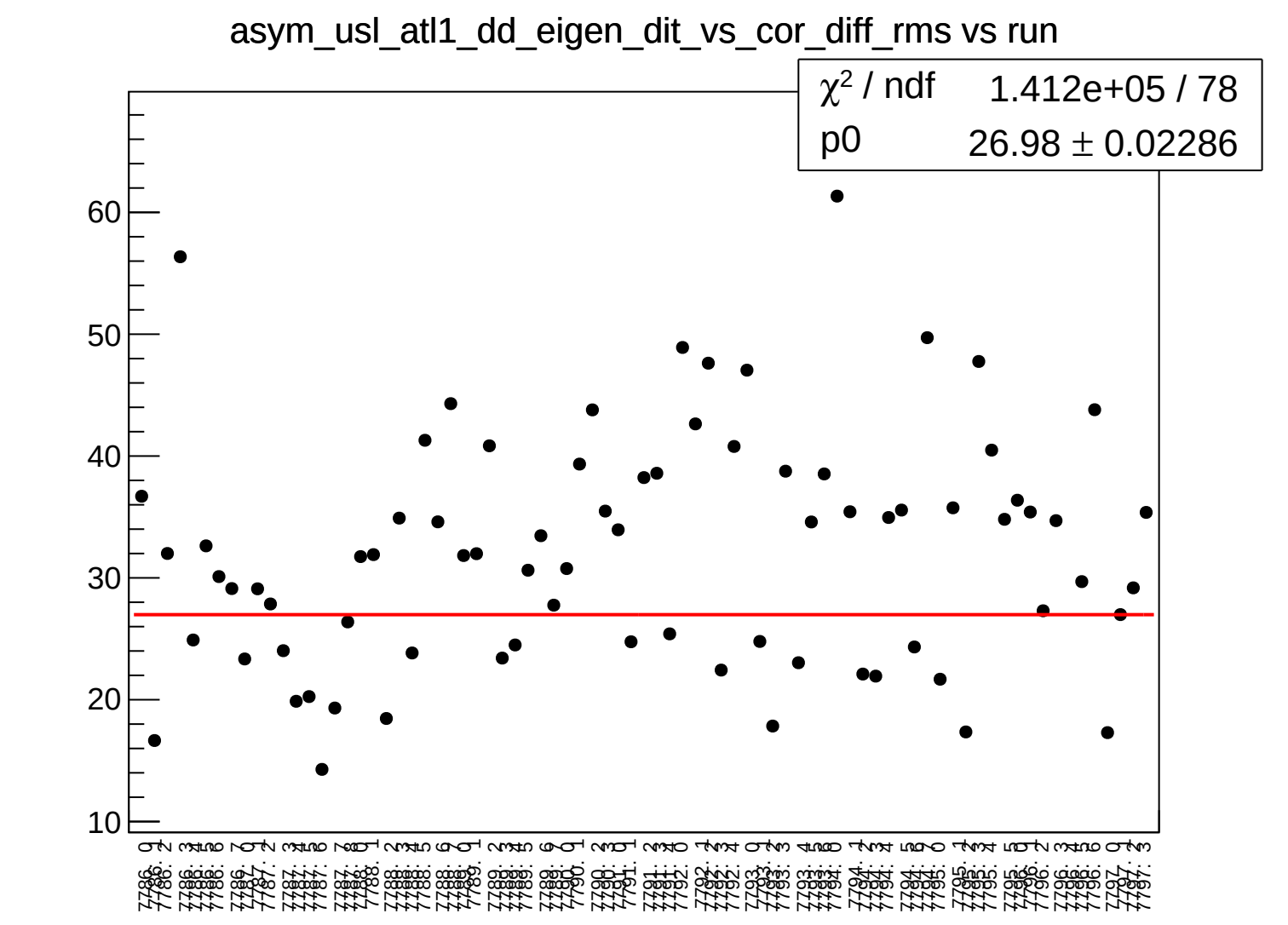

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.02 / 78
p0 1.664e−06 ± 1.033e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 79
Mean −24.65
Std Dev 45.99
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

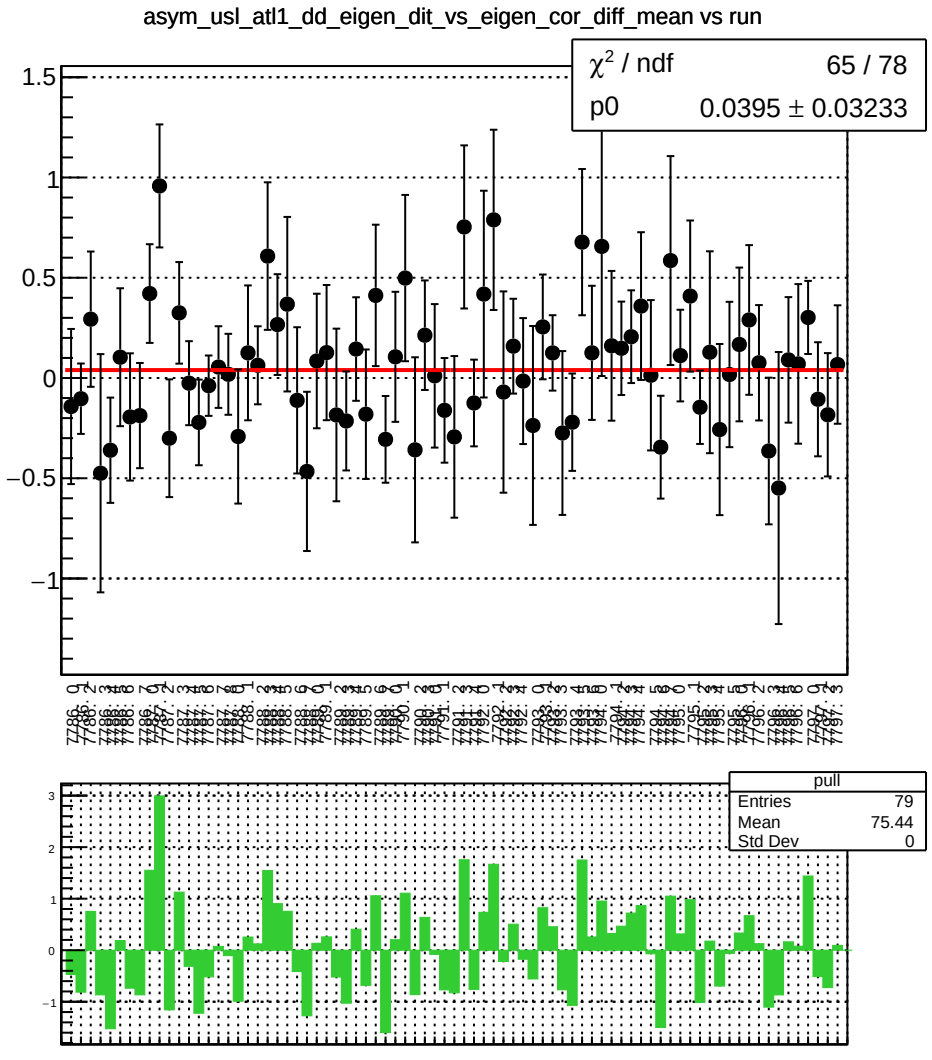

pull1D
Entries 79
Mean −0.01193
Std Dev 0.9744
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

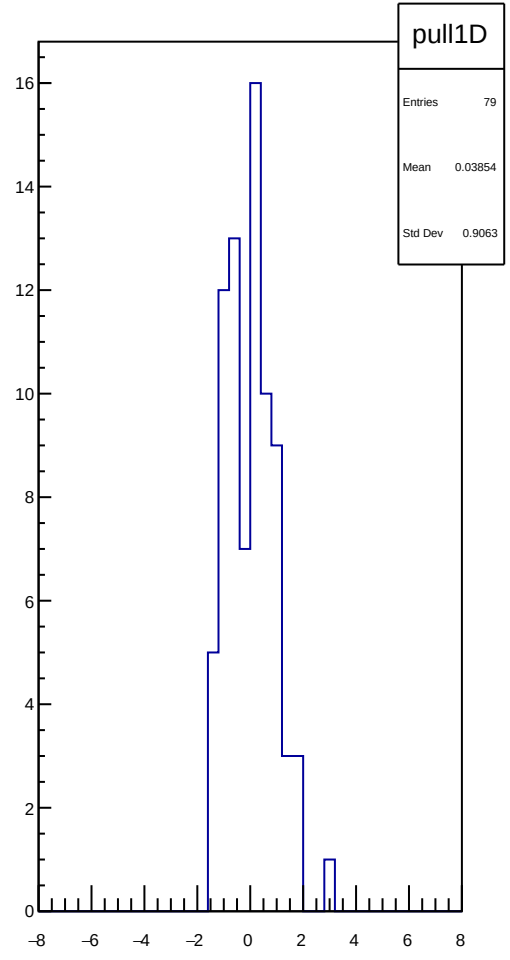

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2772 / 78
p0 0.0009037 ± 7.303e−07
0.001
0.00095
0.0009
0.00085
0.0008

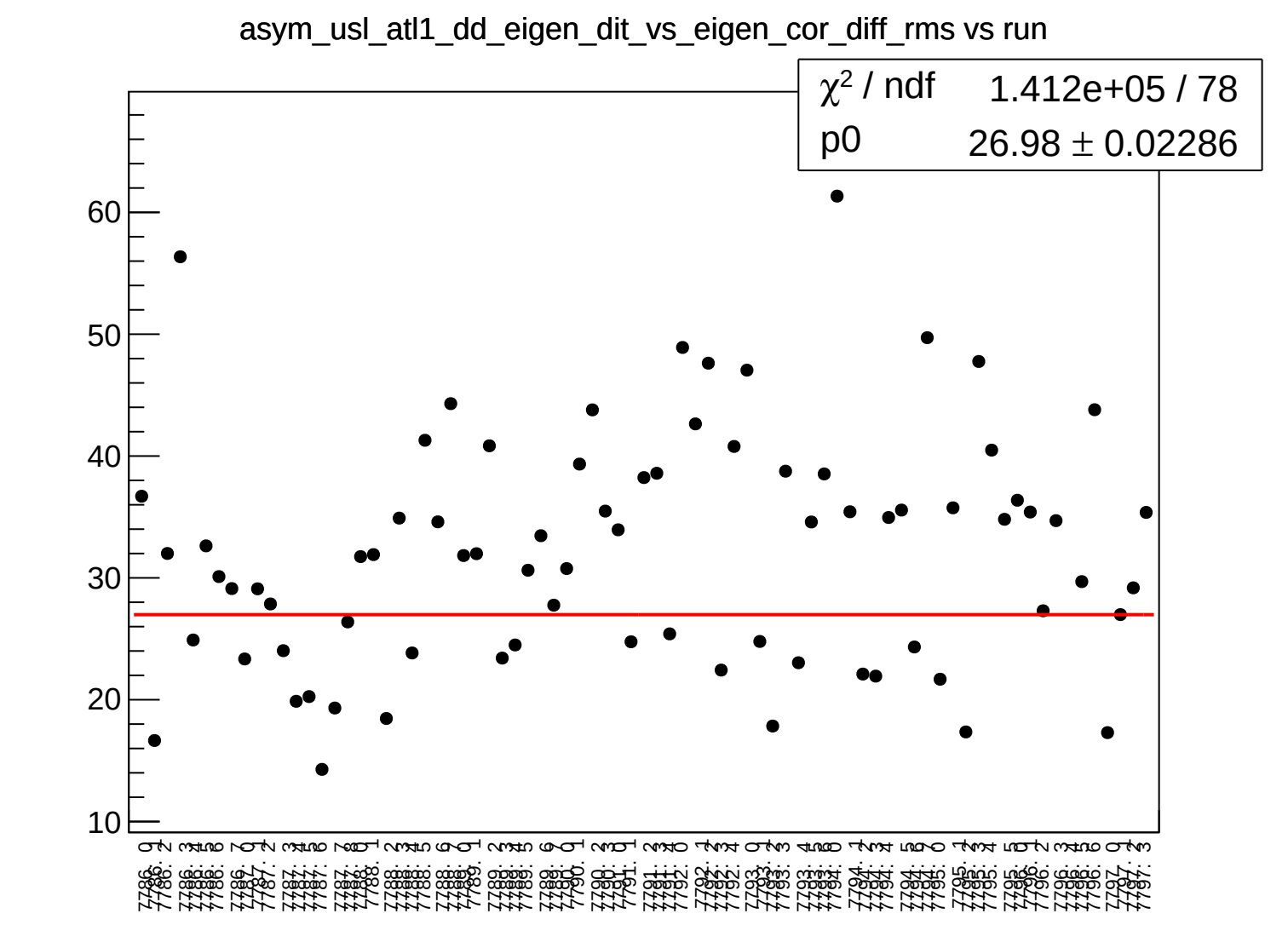

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65 / 78
p0 0.0395 ± 0.03233
pull
Entries 79
Mean 75.44
Std Dev 0

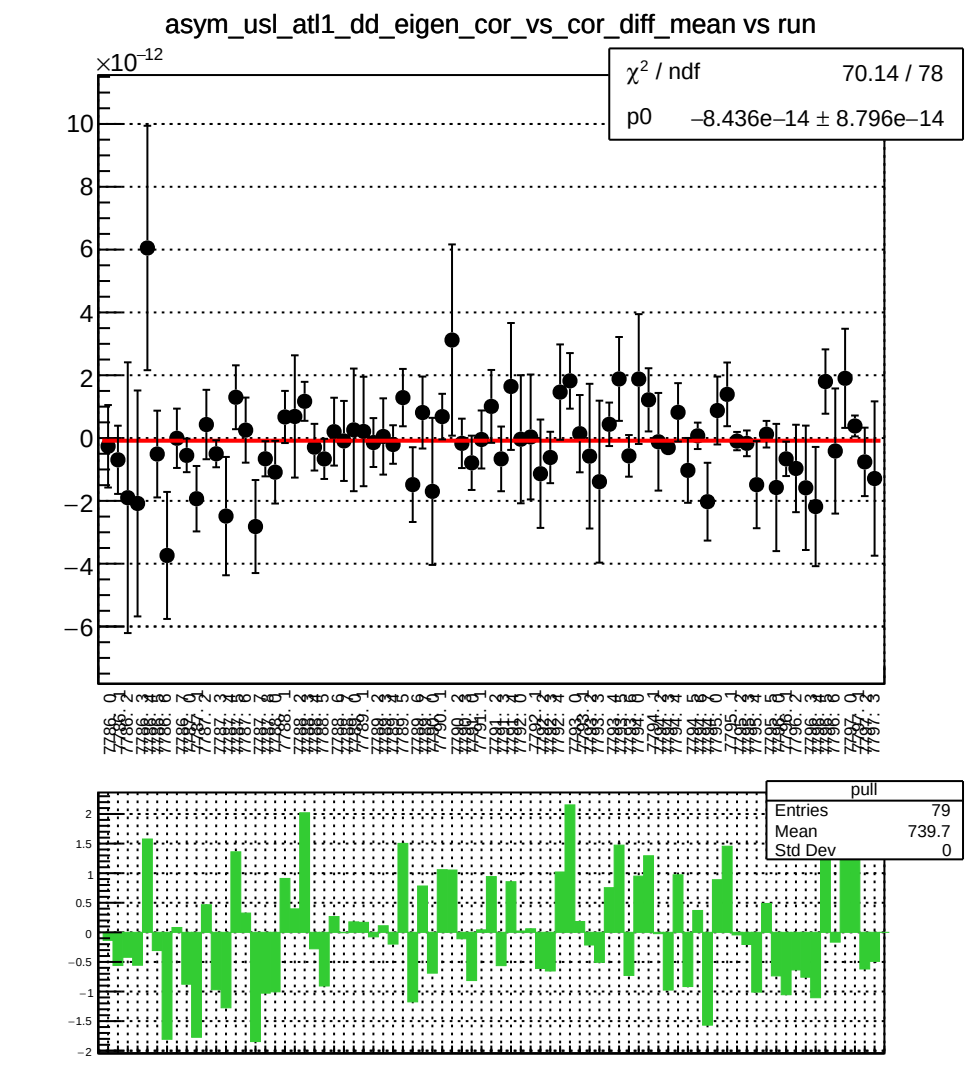

pull1D
Entries 79
Mean 0.03854
Std Dev 0.9063

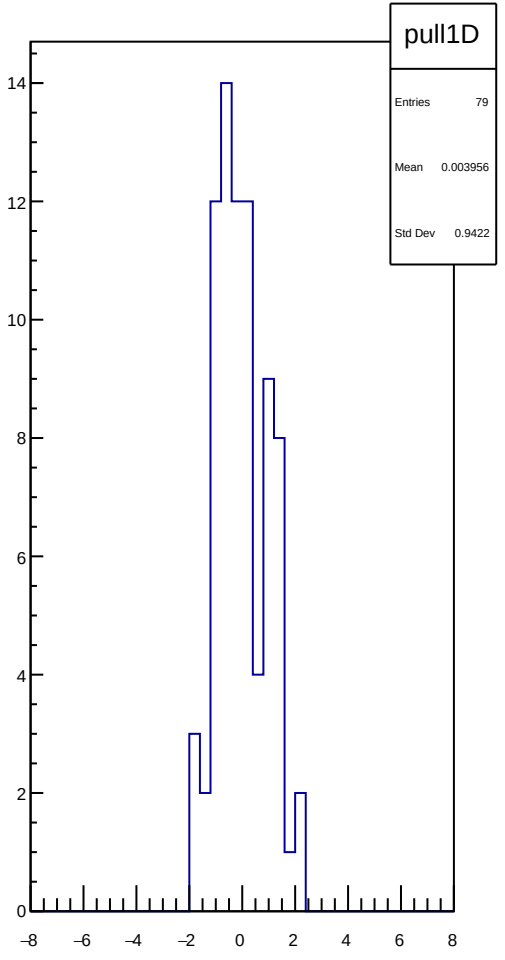

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 78
p0 26.98 ± 0.02286
60
50
40
30
20
10

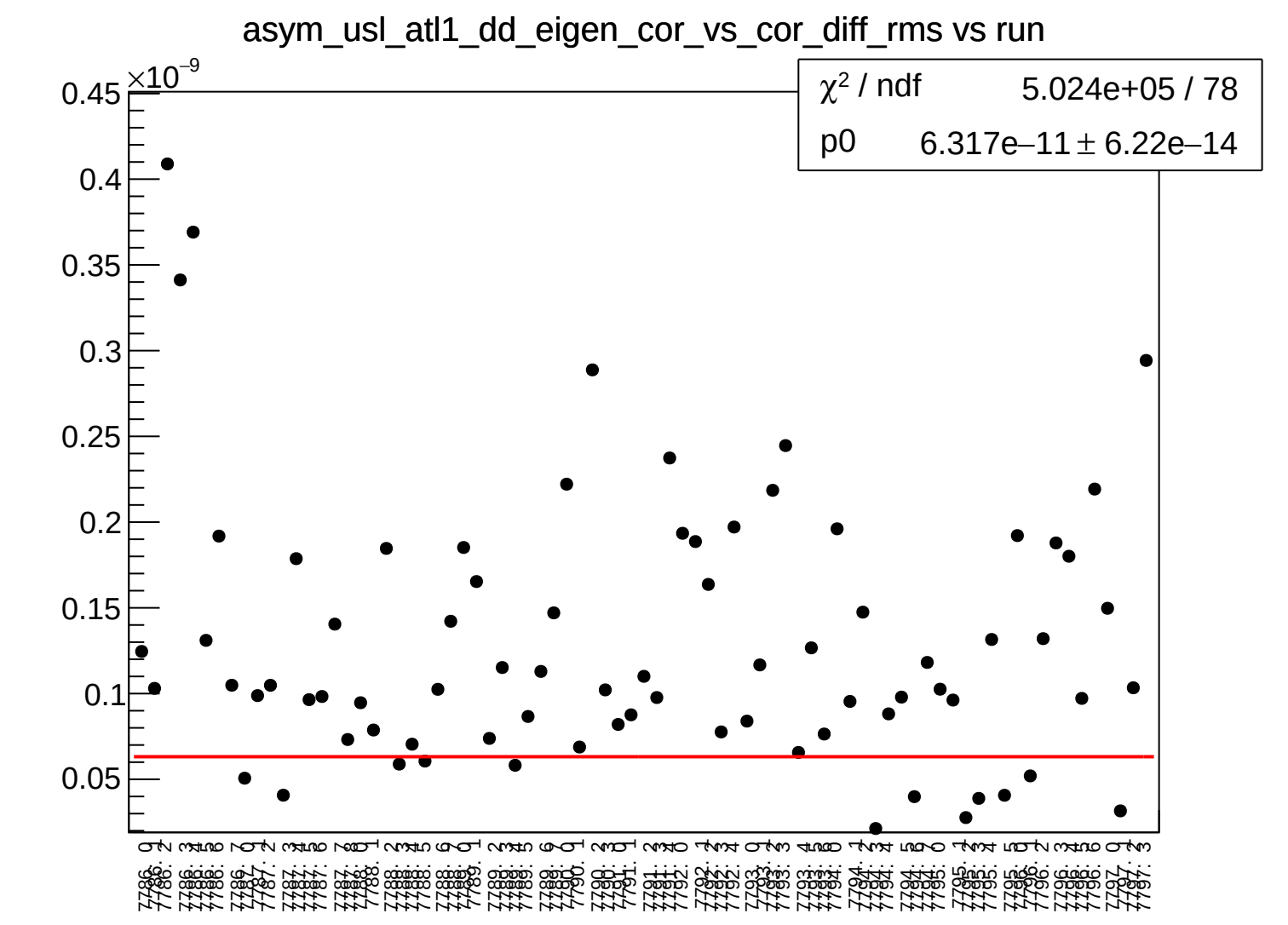

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65 / 78
p0 0.0395 ± 0.03233
pull
Entries 79
Mean 75.44
Std Dev 0

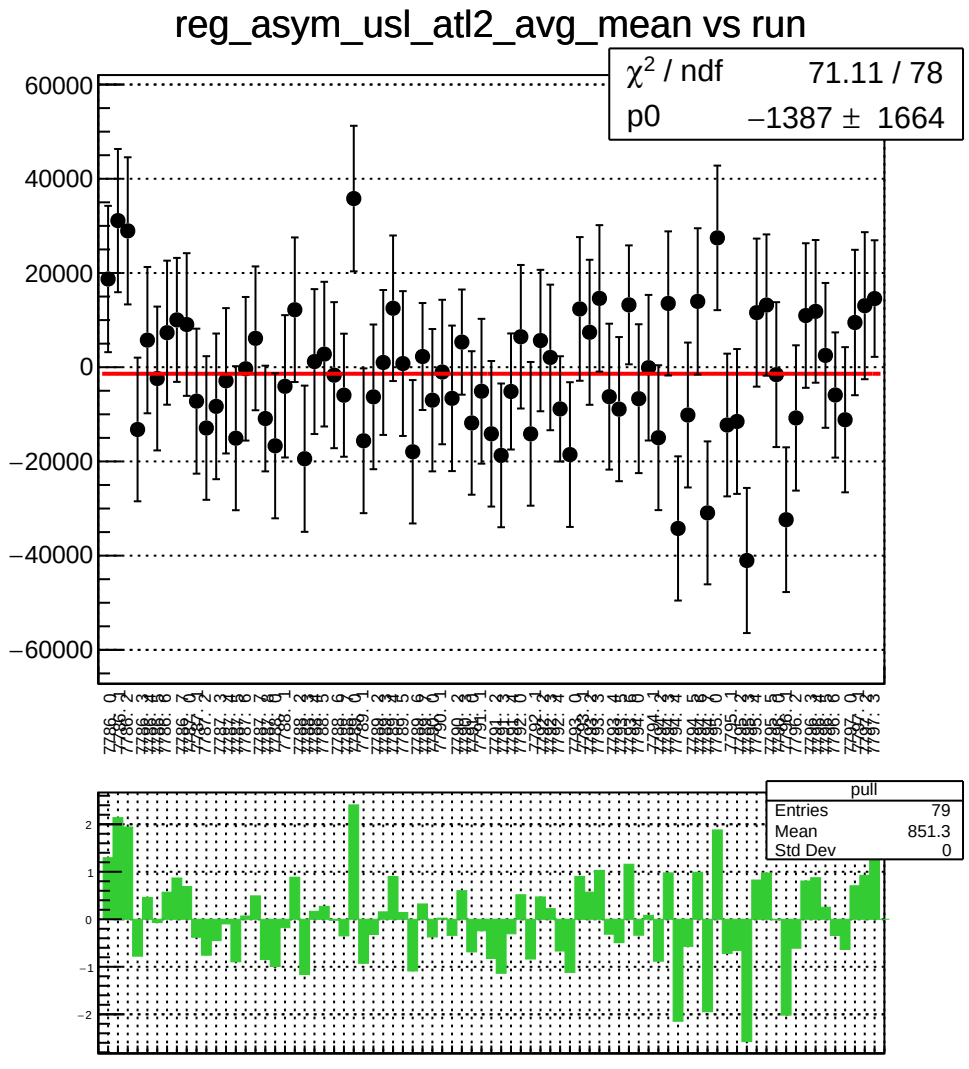

pull1D
Entries 79
Mean 0.03854
Std Dev 0.9063

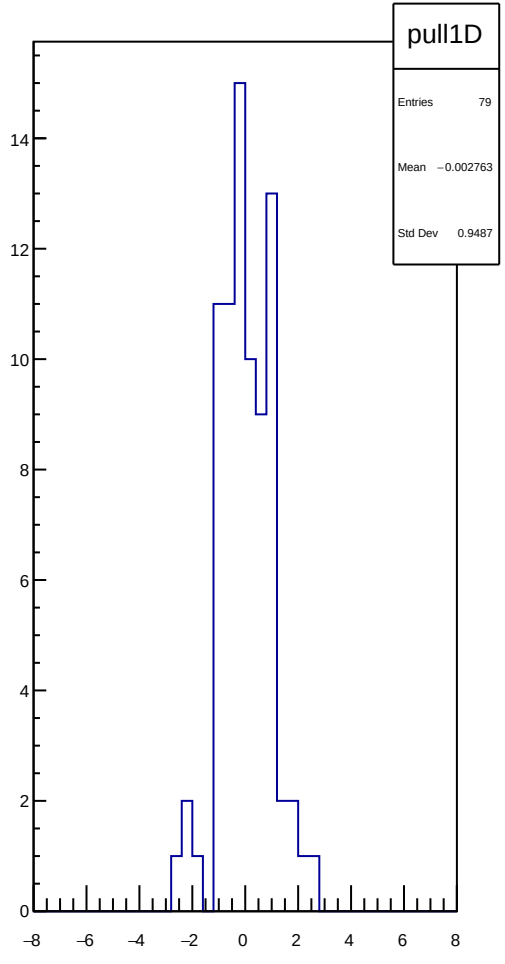

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 78
p0 26.98 ± 0.02286
60
50
40
30
20
10

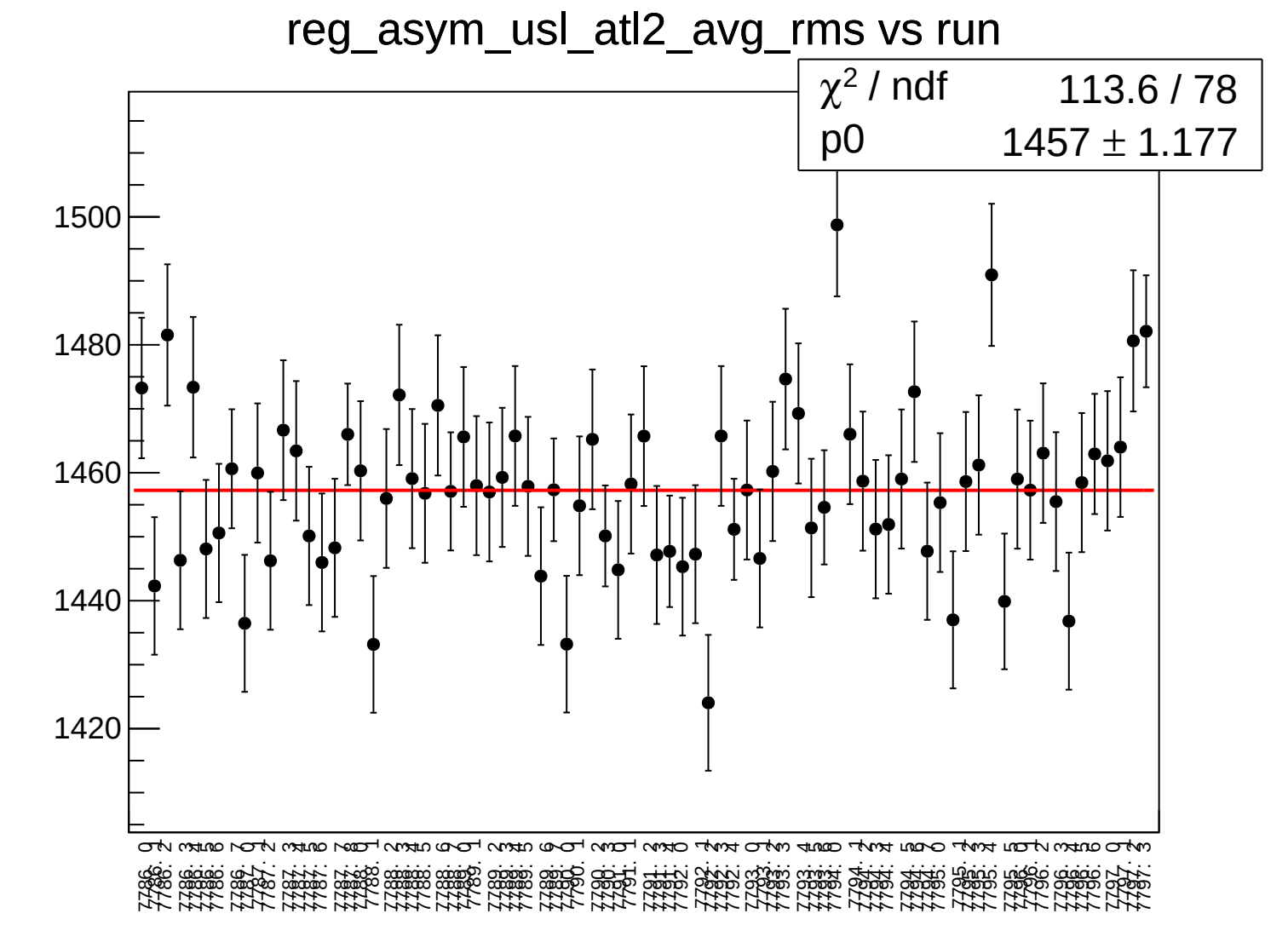

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.14 / 78
p0 −8.436e−14 ± 8.796e−14
pull
Entries 79
Mean 739.7
Std Dev 0

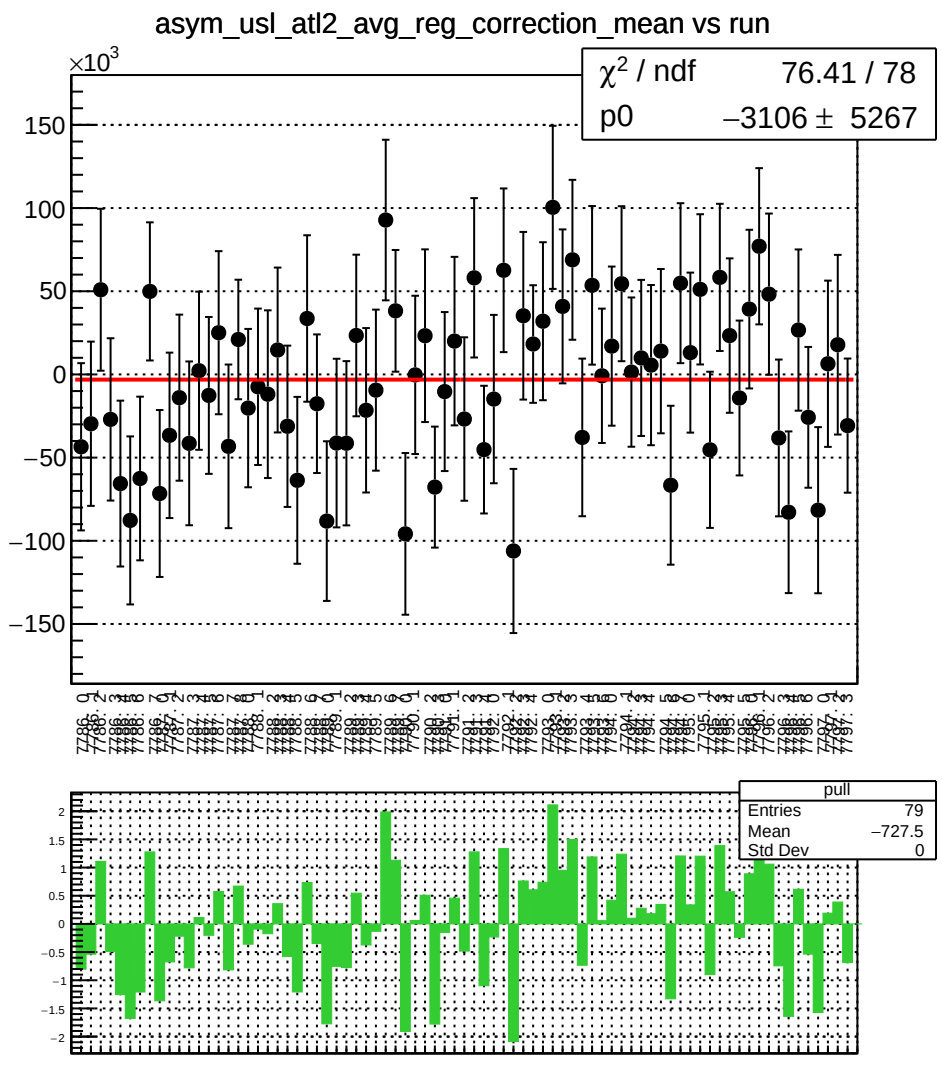

pull1D
Entries 79
Mean 0.003956
Std Dev 0.9422

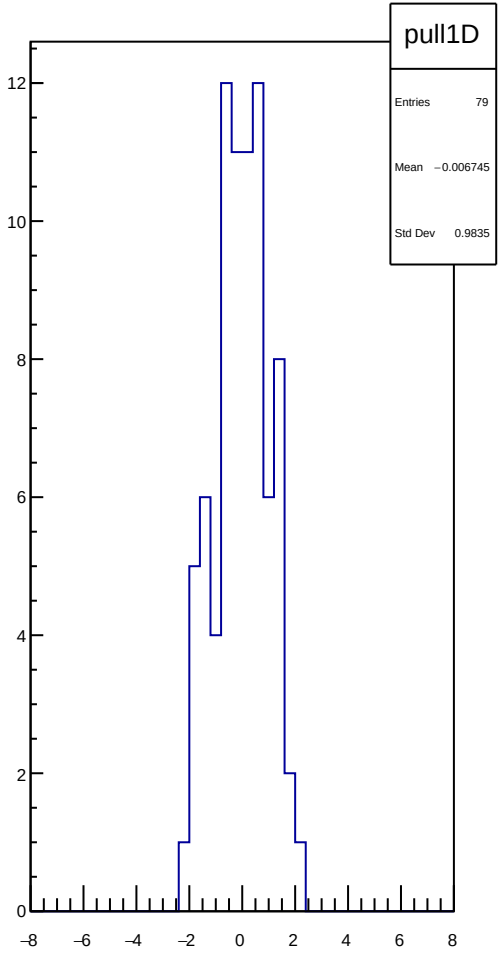

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.024e+05 / 78
p0 6.317e−11 ± 6.22e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

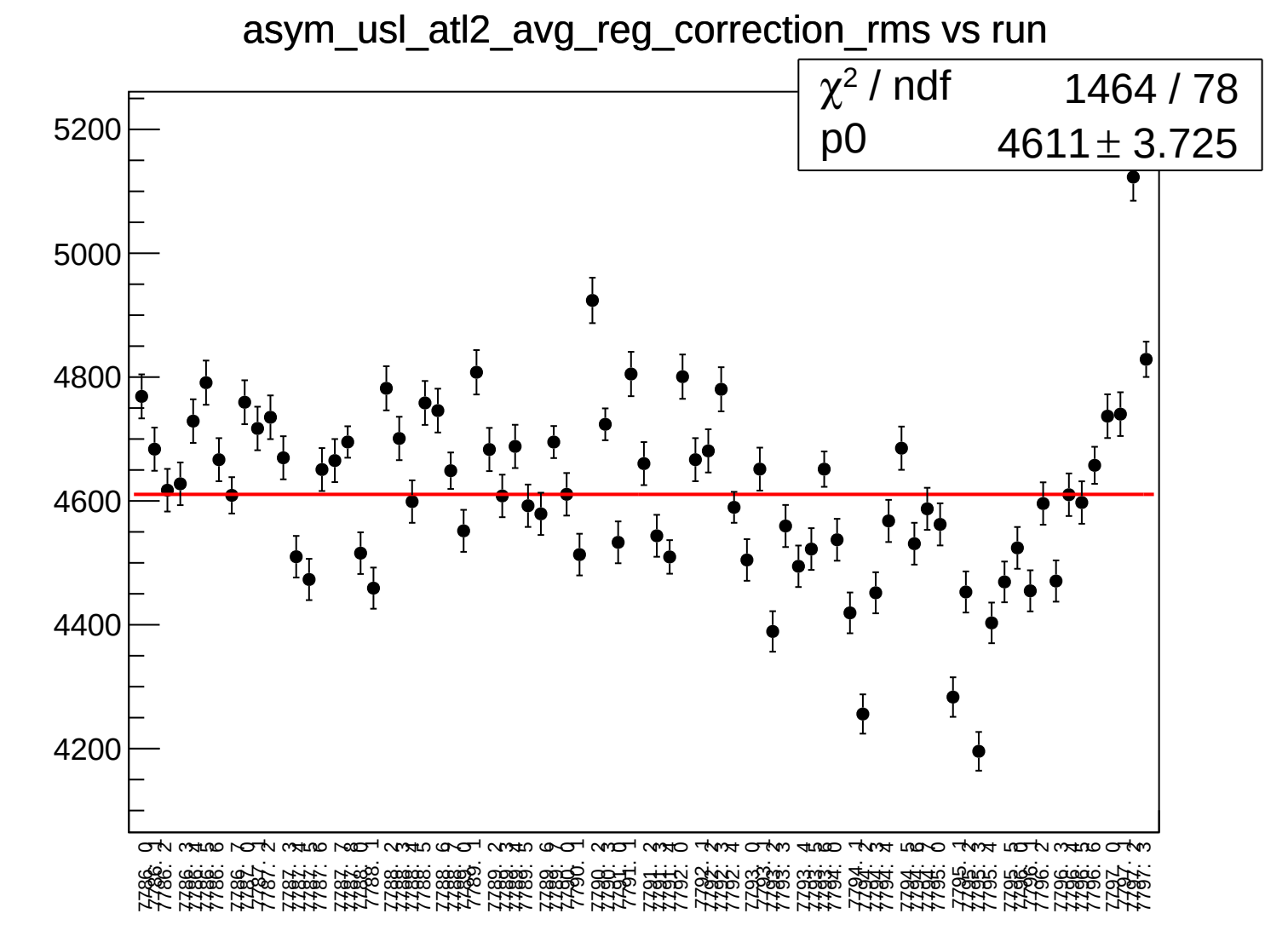

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 71.11 / 78
p0 −1387 ± 1664
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 851.3
Std Dev 0
2
1
0
−1
−2

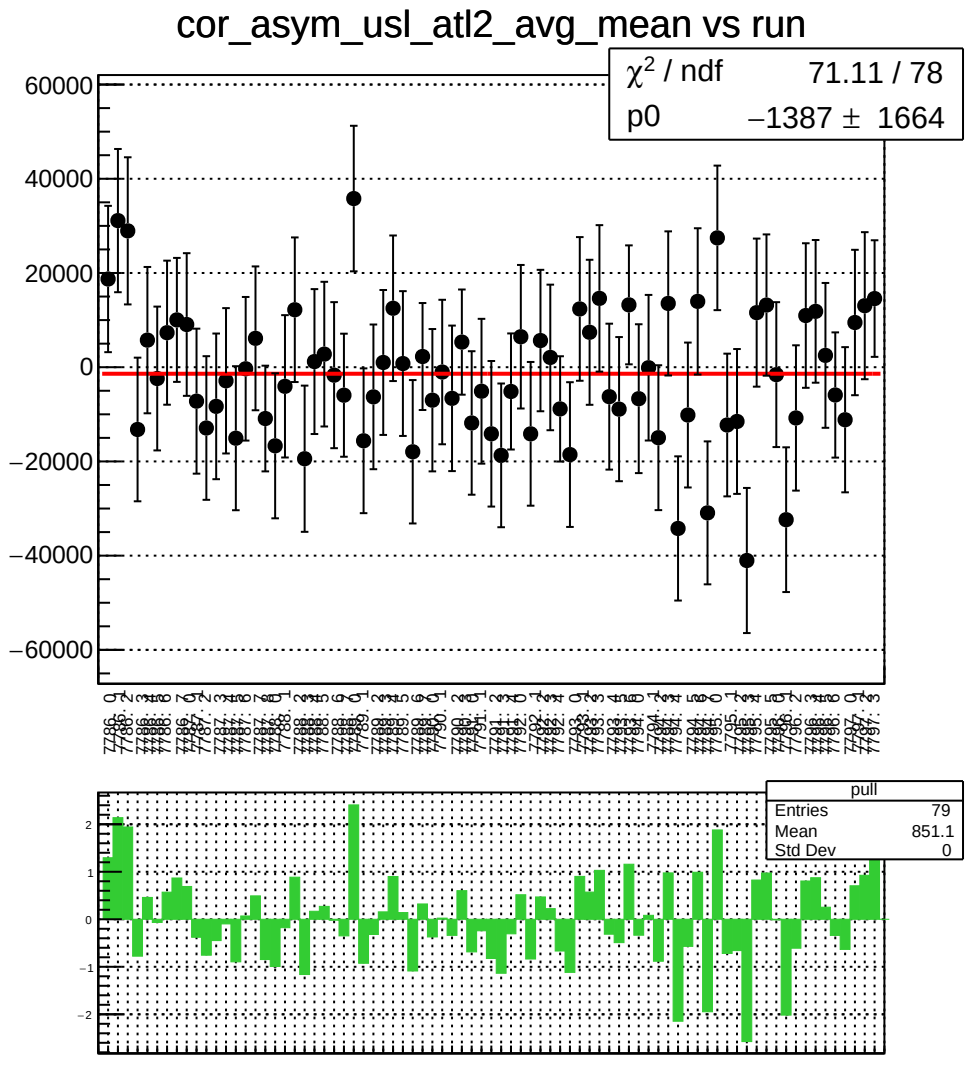

pull1D
Entries 79
Mean −0.002763
Std Dev 0.9487
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

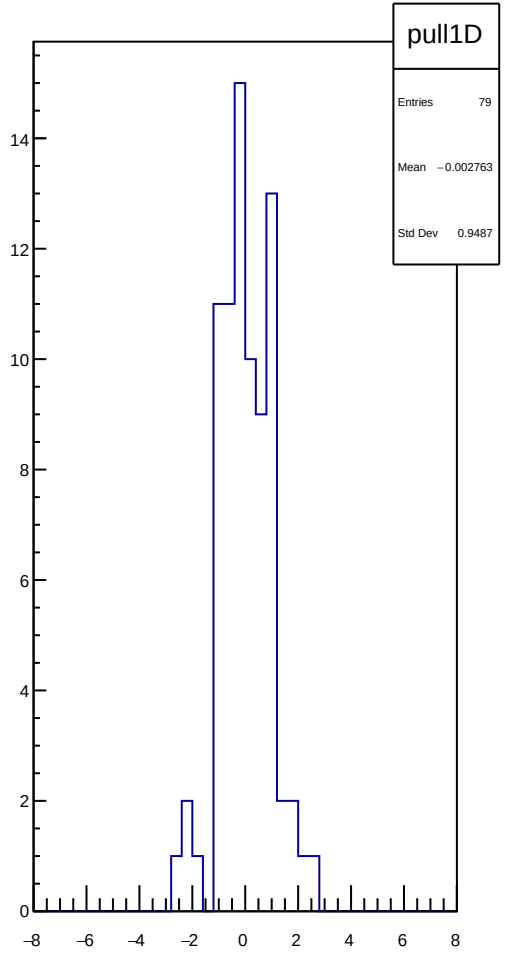

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 113.6 / 78
p0 1457 ± 1.177
1500
1480
1460
1440
1420

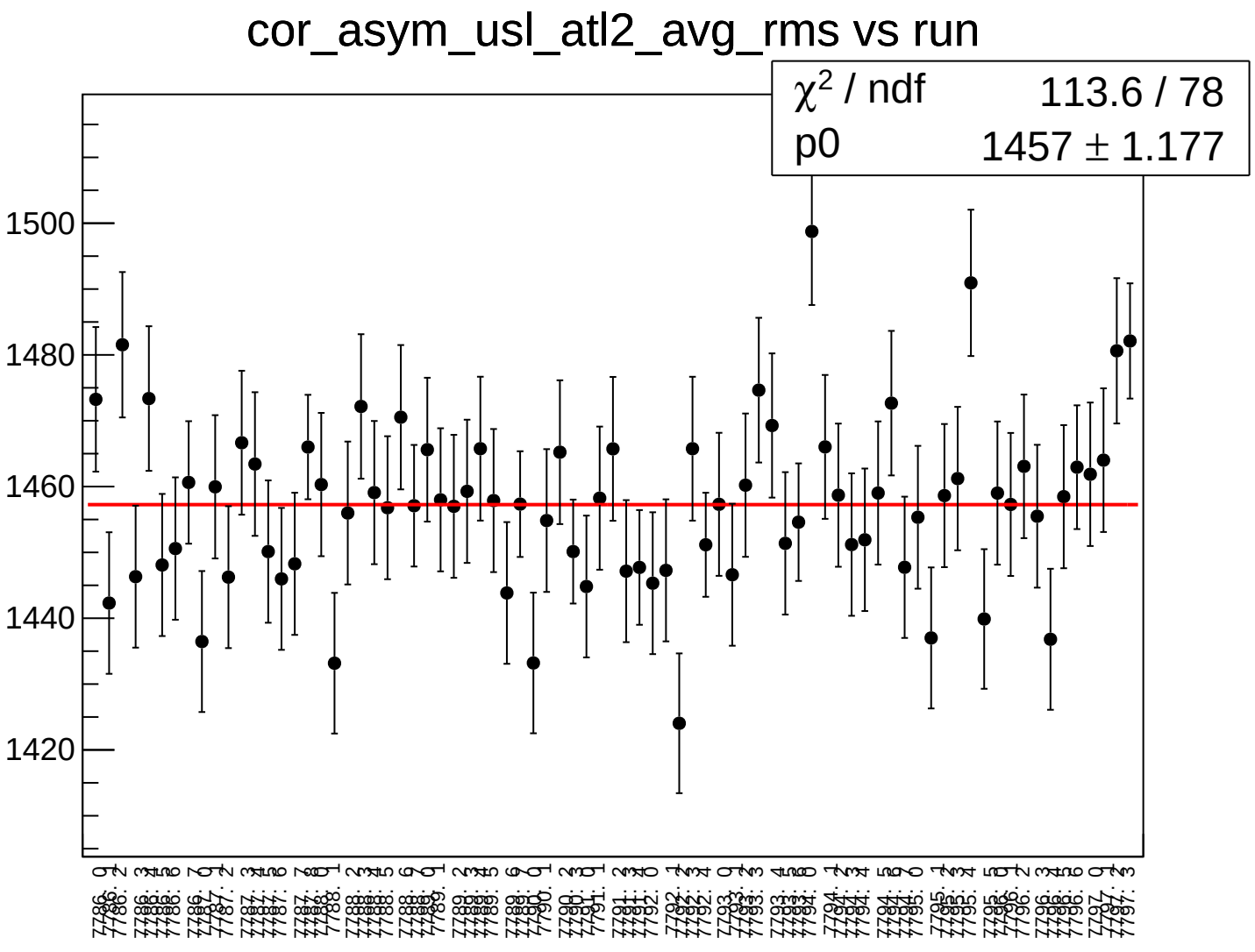

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 76.41 / 78
p0 −3106 ± 5267
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −727.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

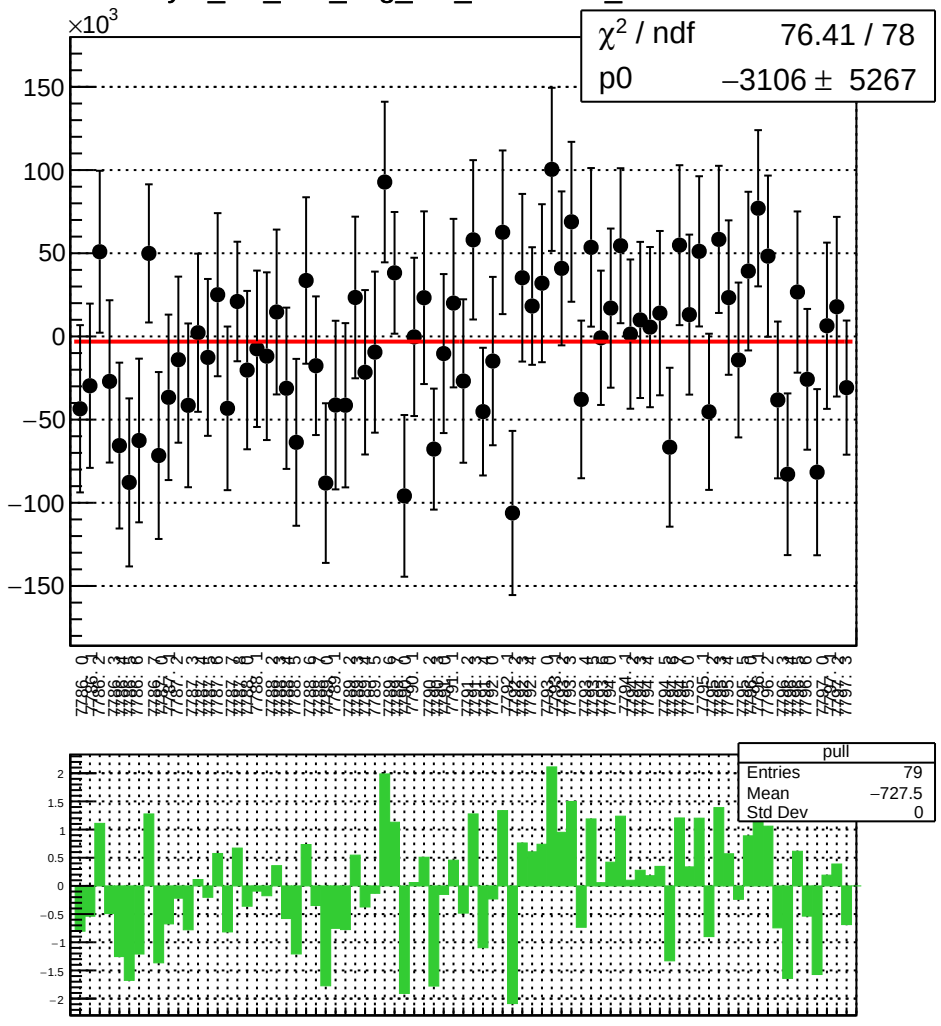

pull1D
Entries 79
Mean −0.006745
Std Dev 0.9835
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

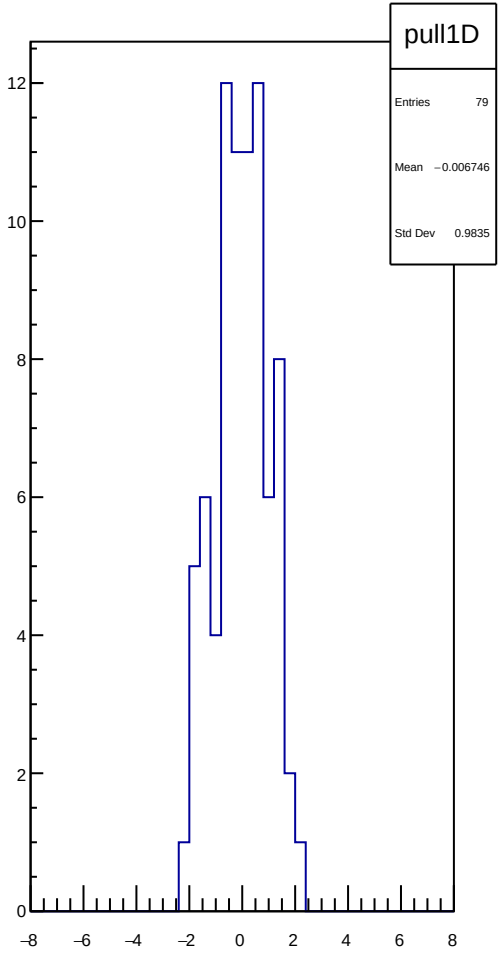

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1464 / 78
p0 4611 ± 3.725
5200
5000
4800
4600
4400
4200

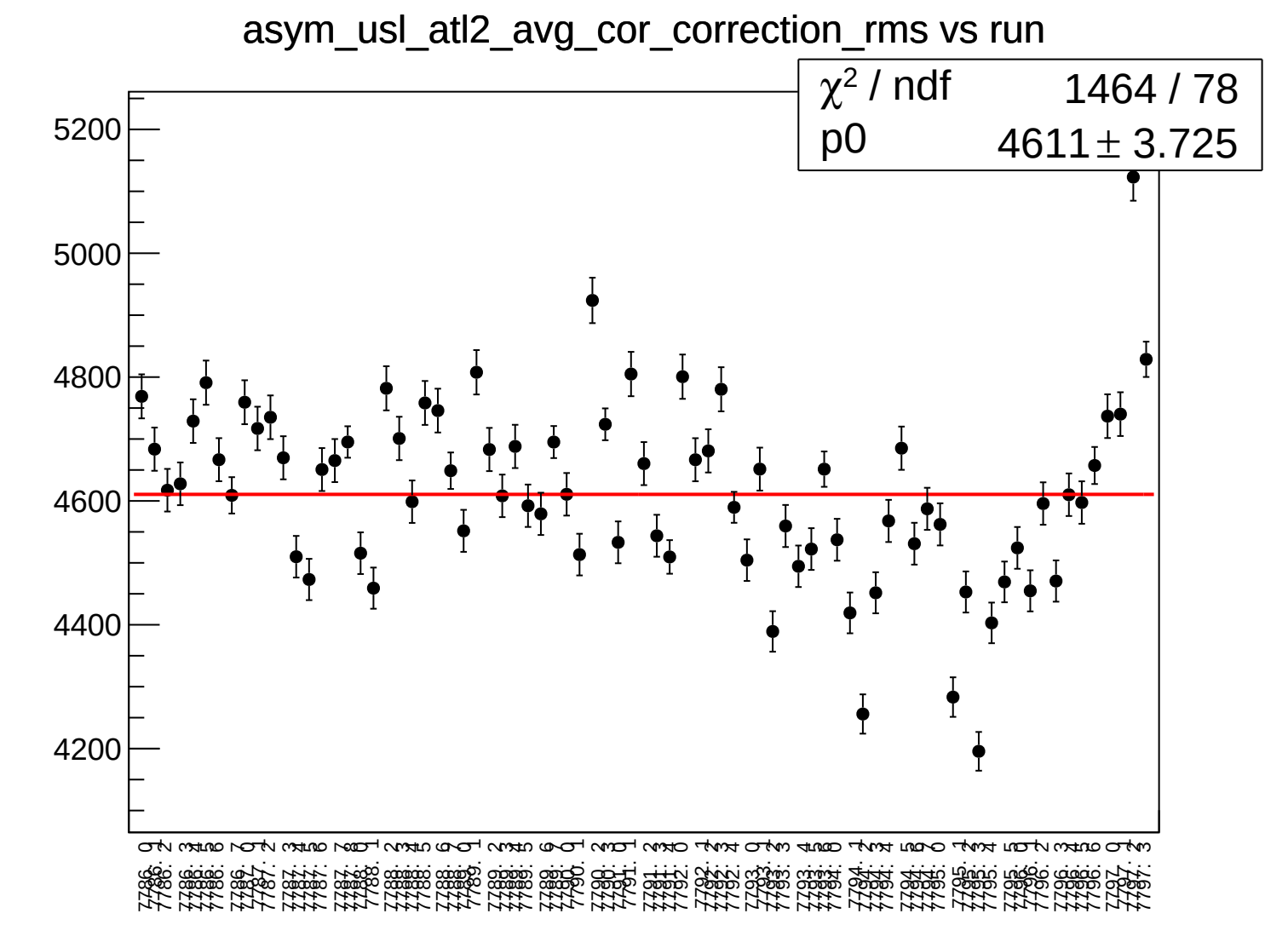

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 71.11 / 78
p0 −1387 ± 1664
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 851.1
Std Dev 0
2
1
0
−1
−2

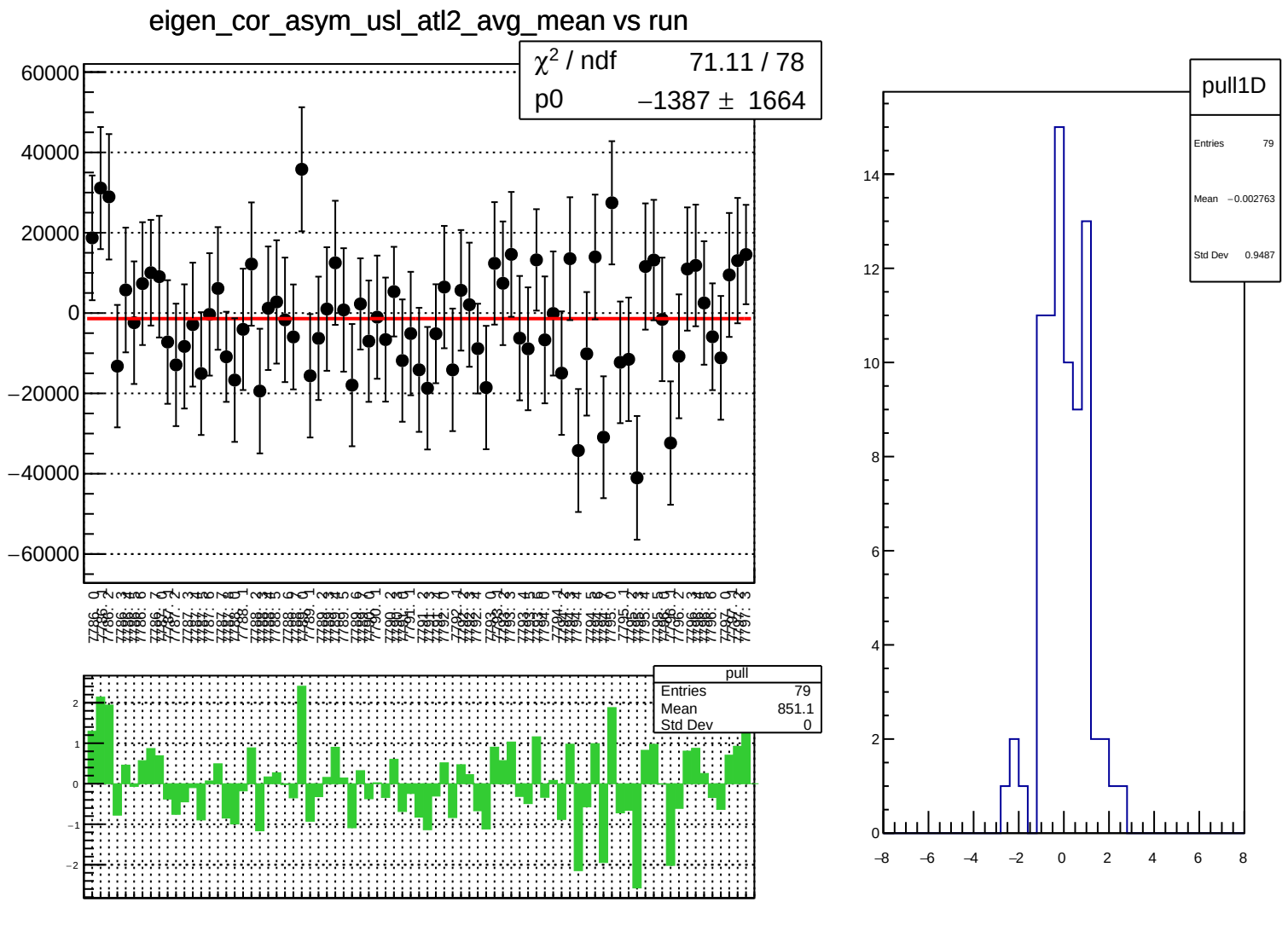

pull1D
Entries 79
Mean −0.002763
Std Dev 0.9487
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

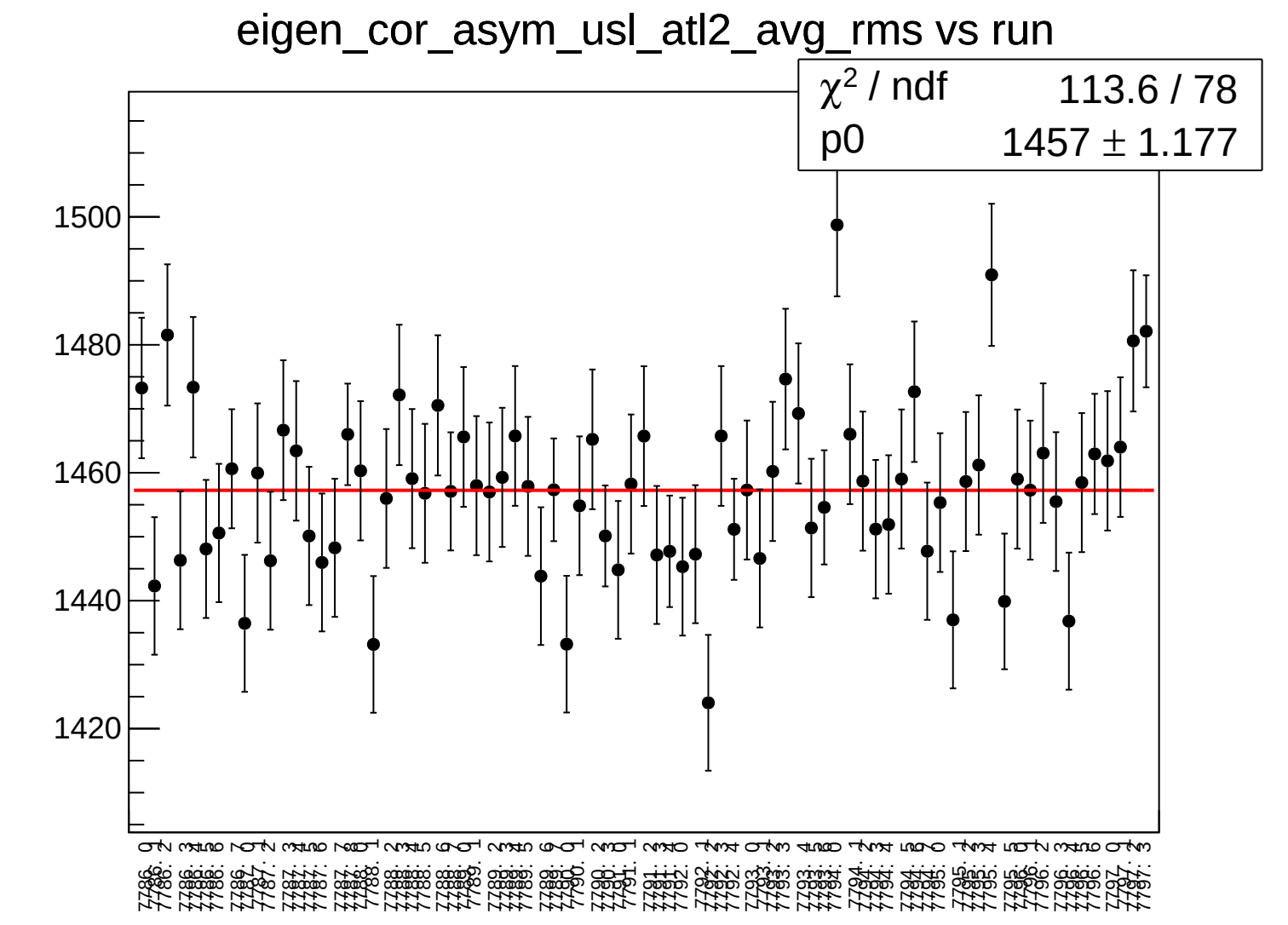

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 113.6 / 78
p0 1457 ± 1.177
1500
1480
1460
1440
1420

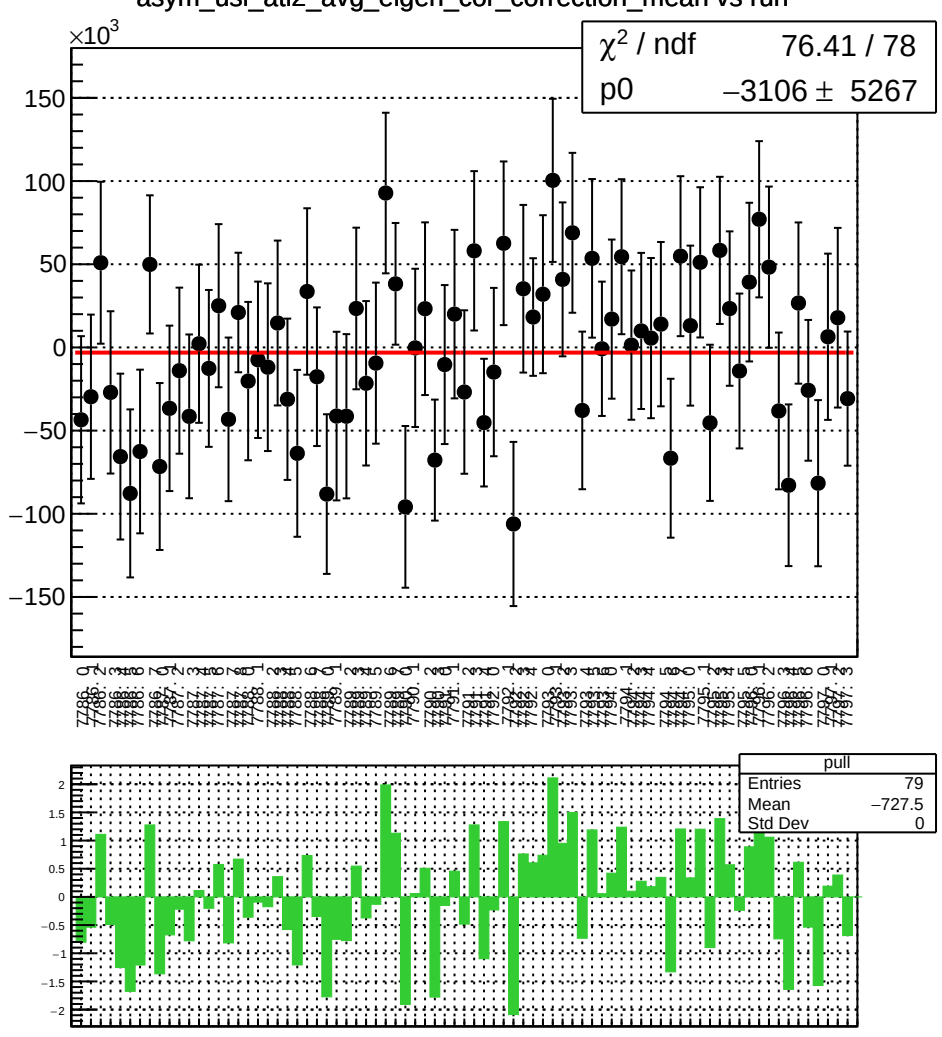

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 76.41 / 78
p0 −3106 ± 5267
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −727.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

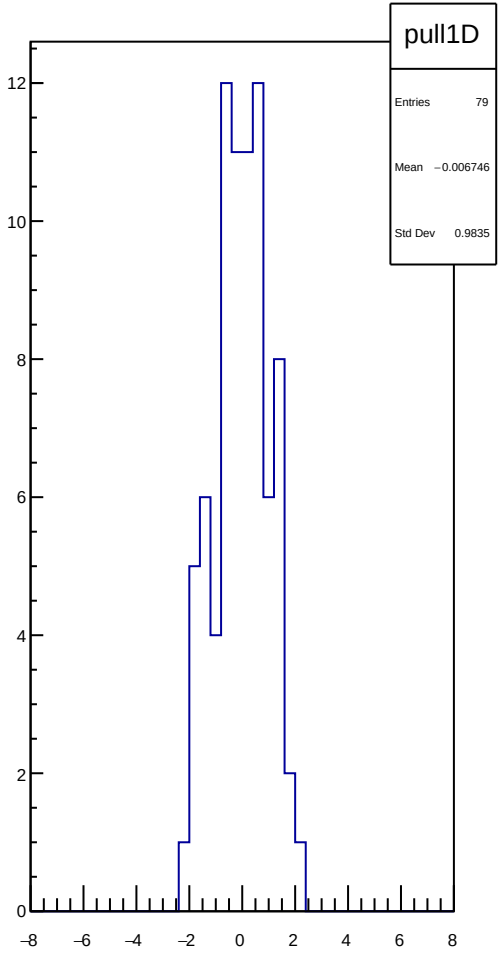

pull1D
Entries 79
Mean −0.006746
Std Dev 0.9835
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

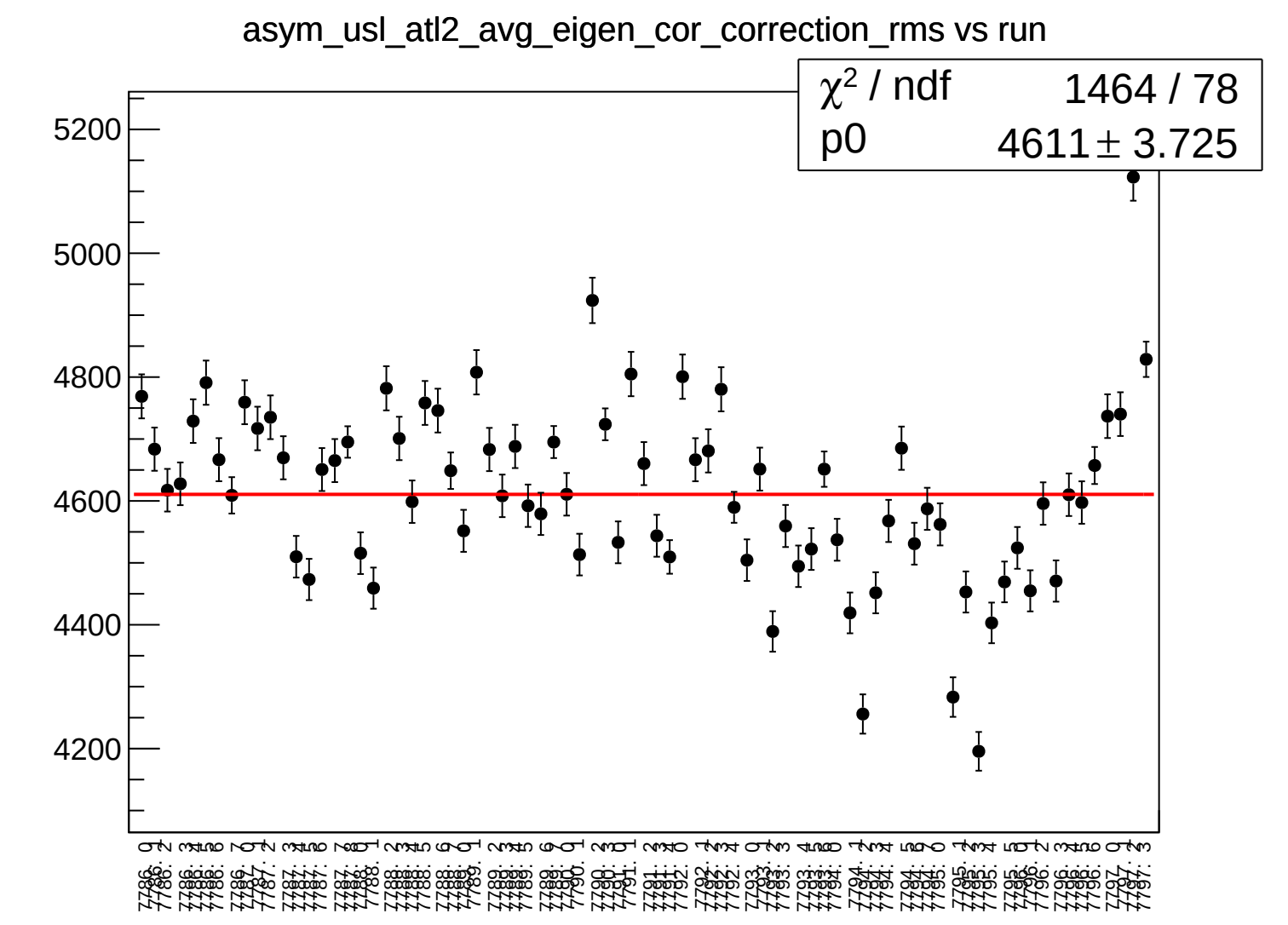

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1464 / 78
p0 4611 ± 3.725
5200
5000
4800
4600
4400
4200

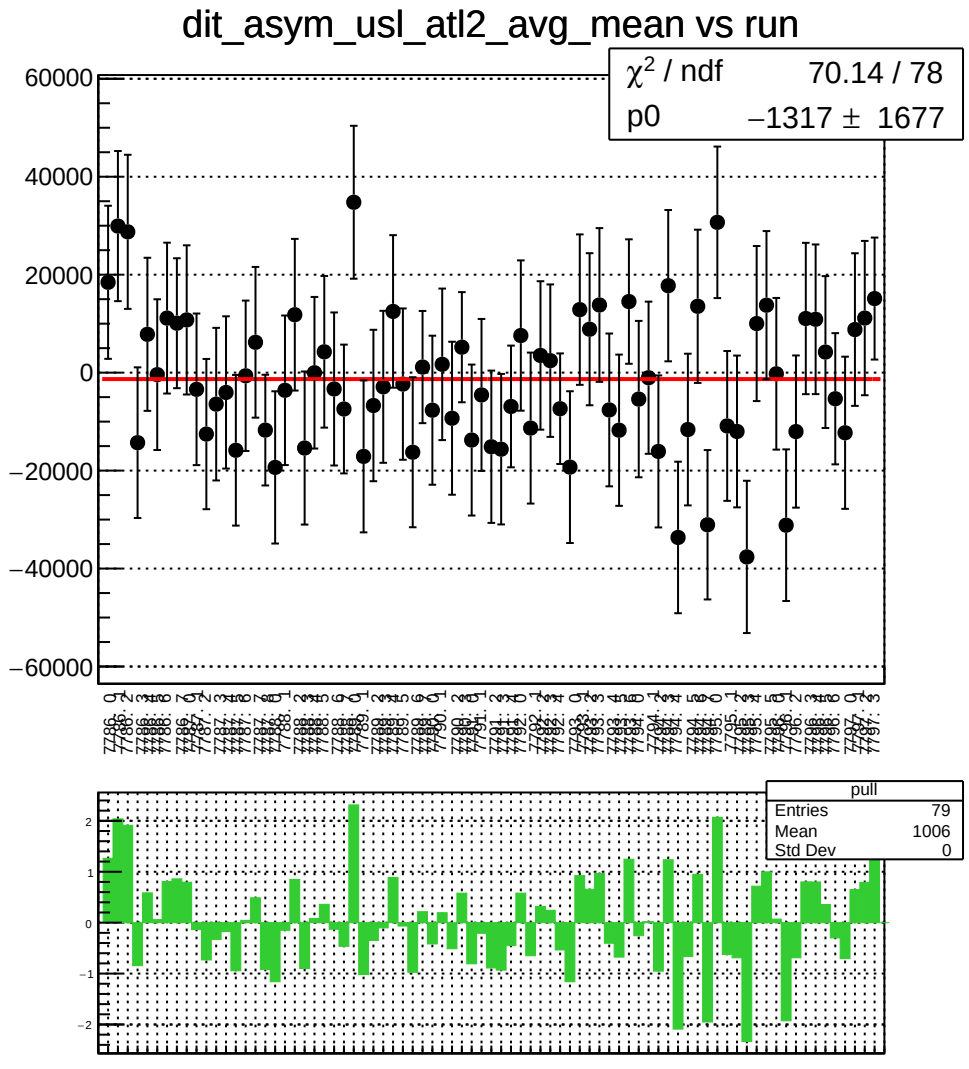

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 71.11 / 78
p0 −1387 ± 1664
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 851.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 79
Mean −0.002763
Std Dev 0.9487
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

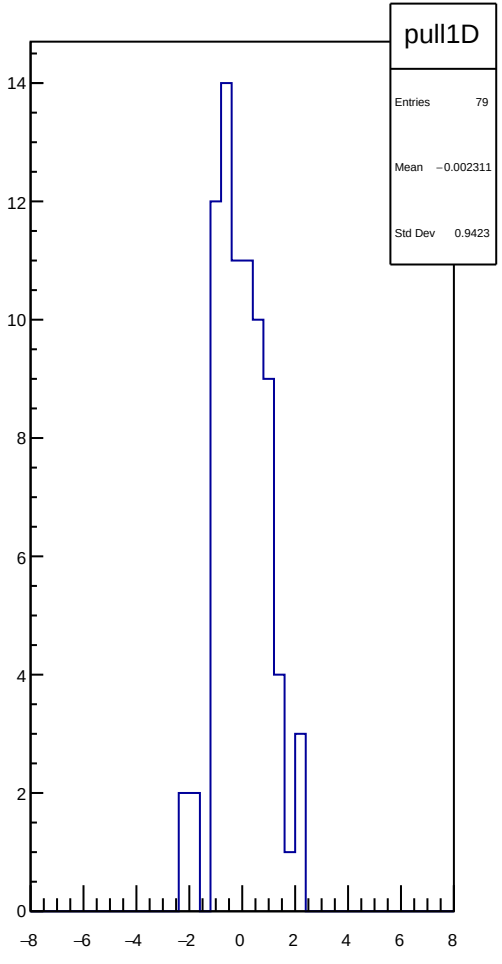

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 113.6 / 78
p0 1457 ± 1.177
1500
1480
1460
1440
1420

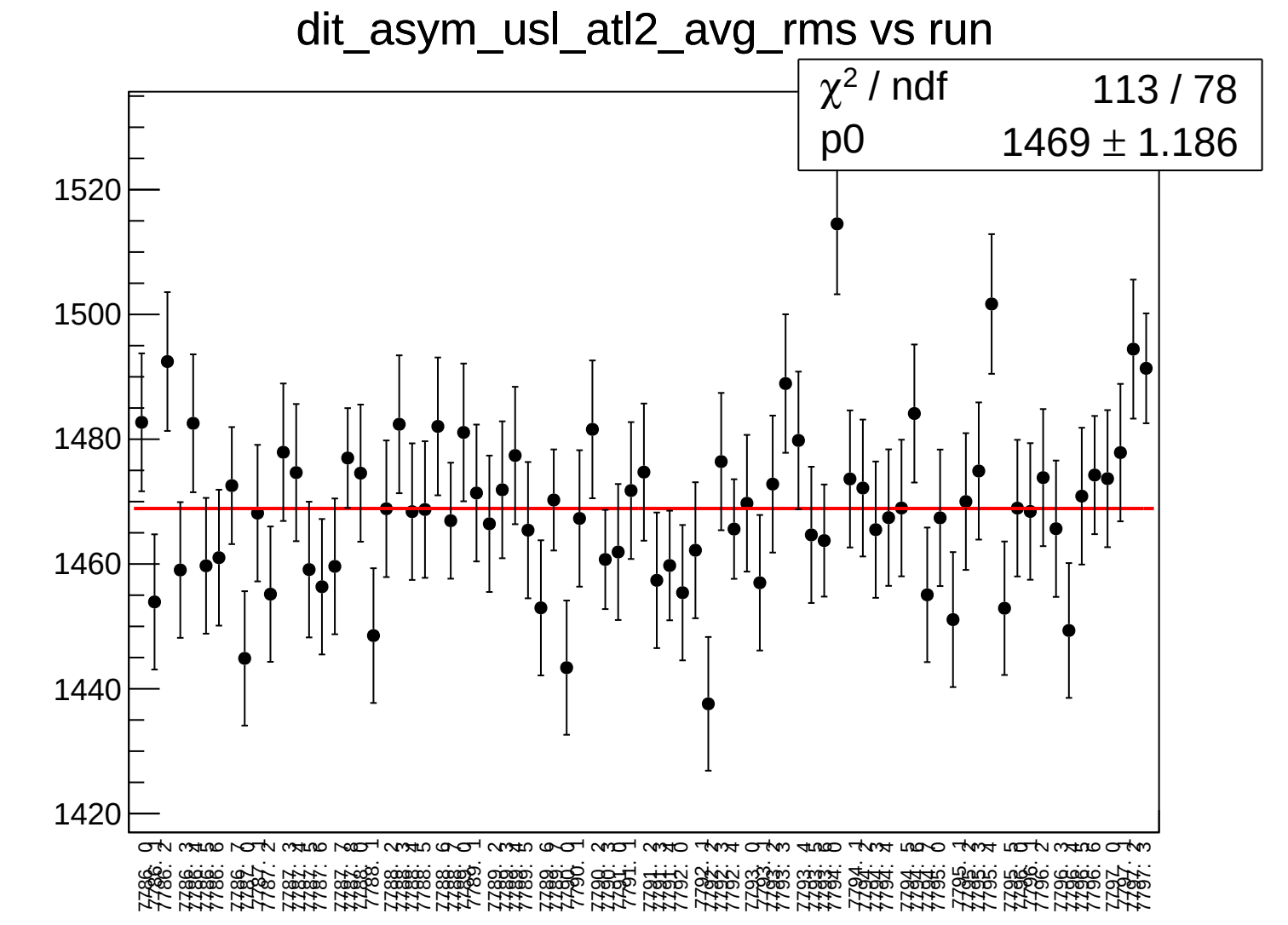

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.41 / 78
p0 −3106 ± 5267
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −727.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

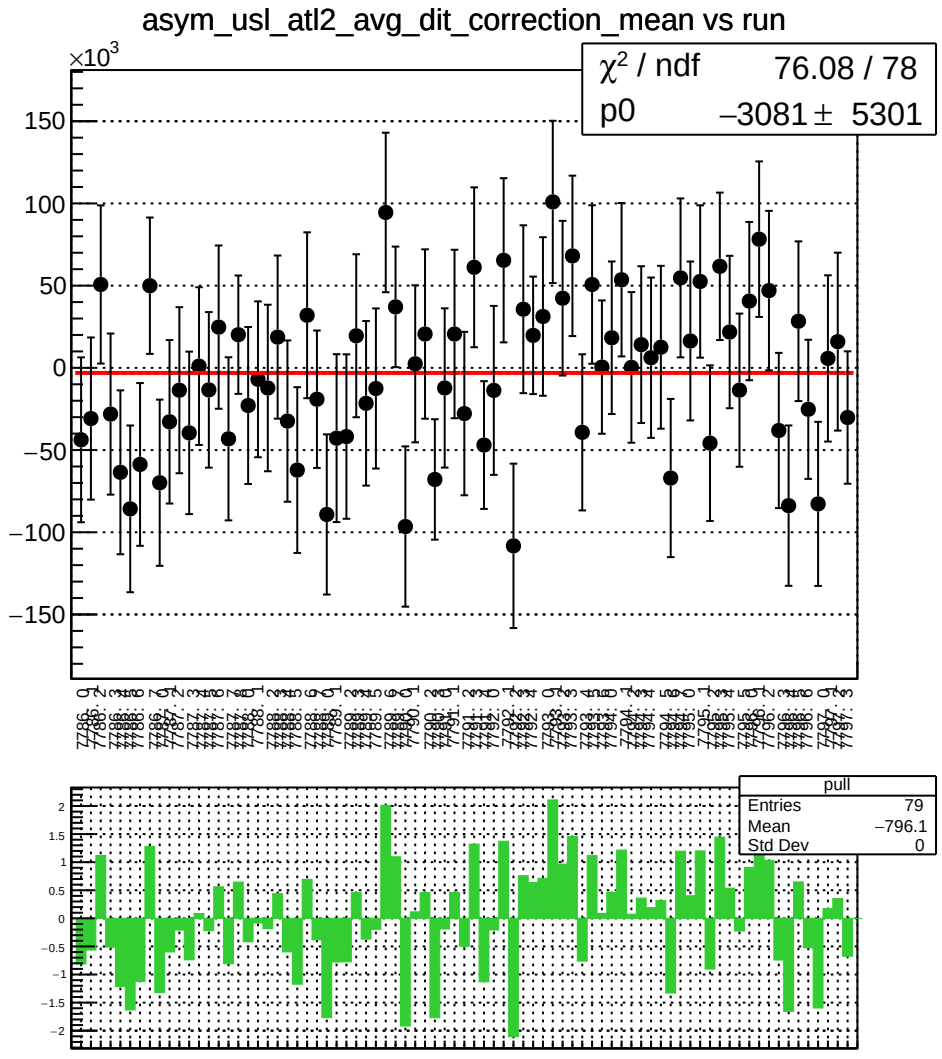

pull1D
Entries 79
Mean −0.006746
Std Dev 0.9835
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

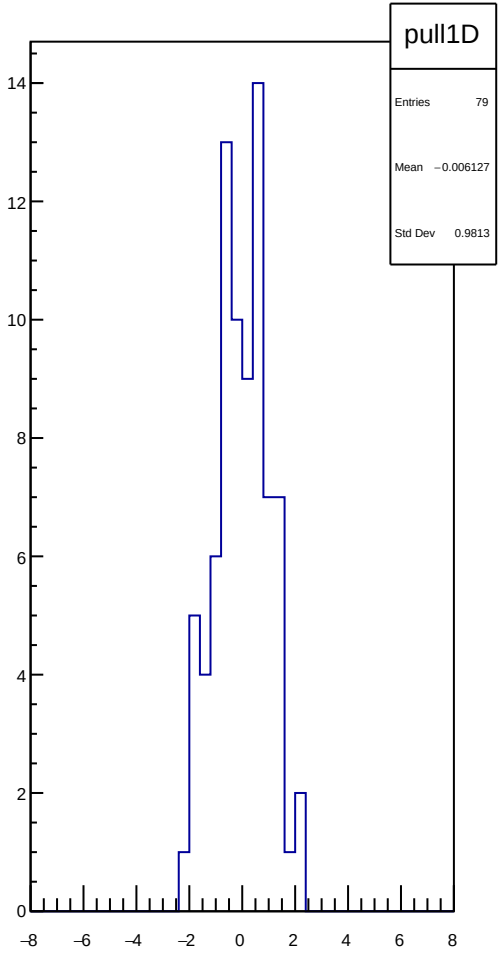

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1464 / 78
p0 4611 ± 3.725
5200
5000
4800
4600
4400
4200

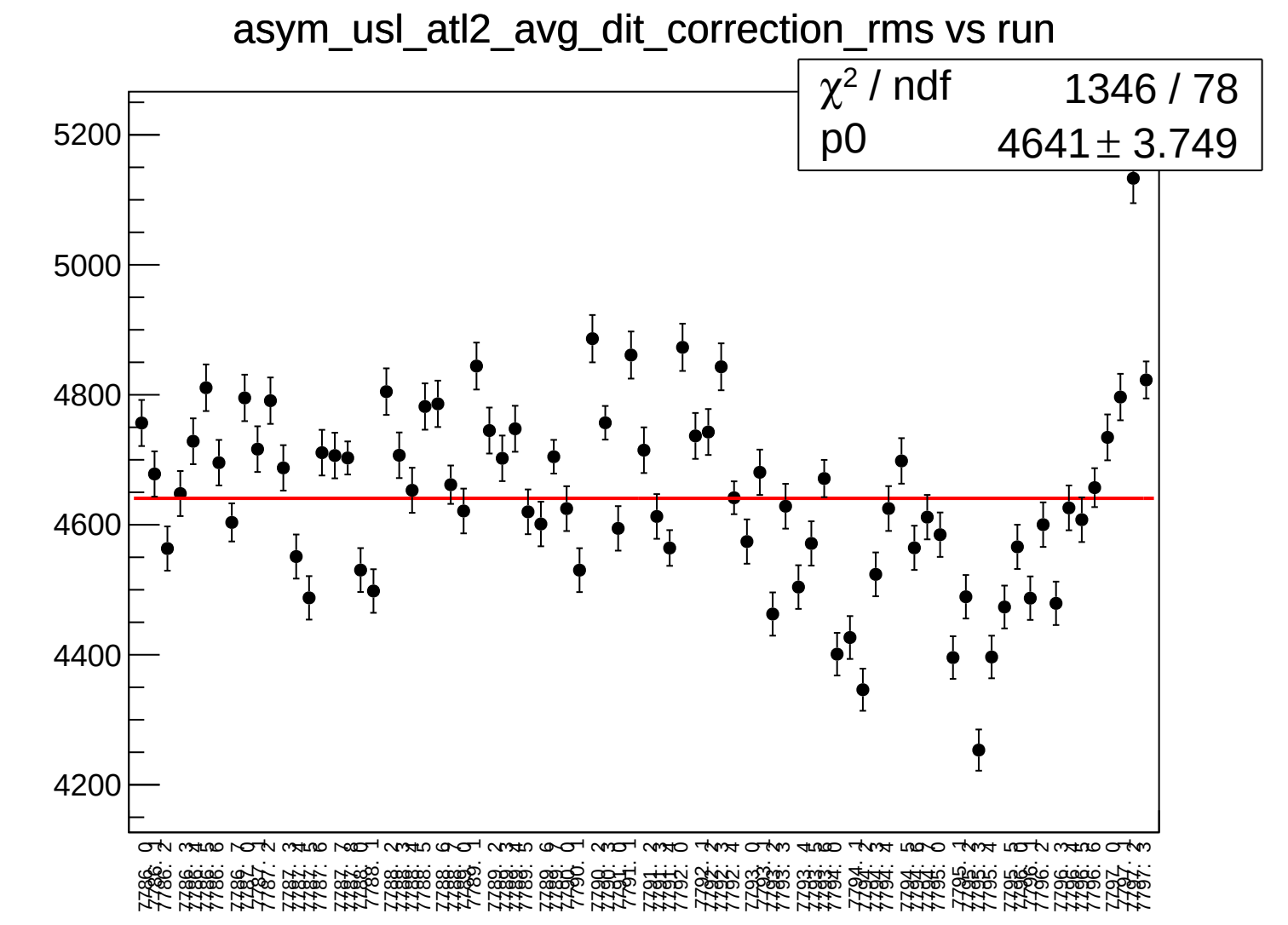

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 70.14 / 78
p0 −1317 ± 1677
pull
Entries 79
Mean 1006
Std Dev 0

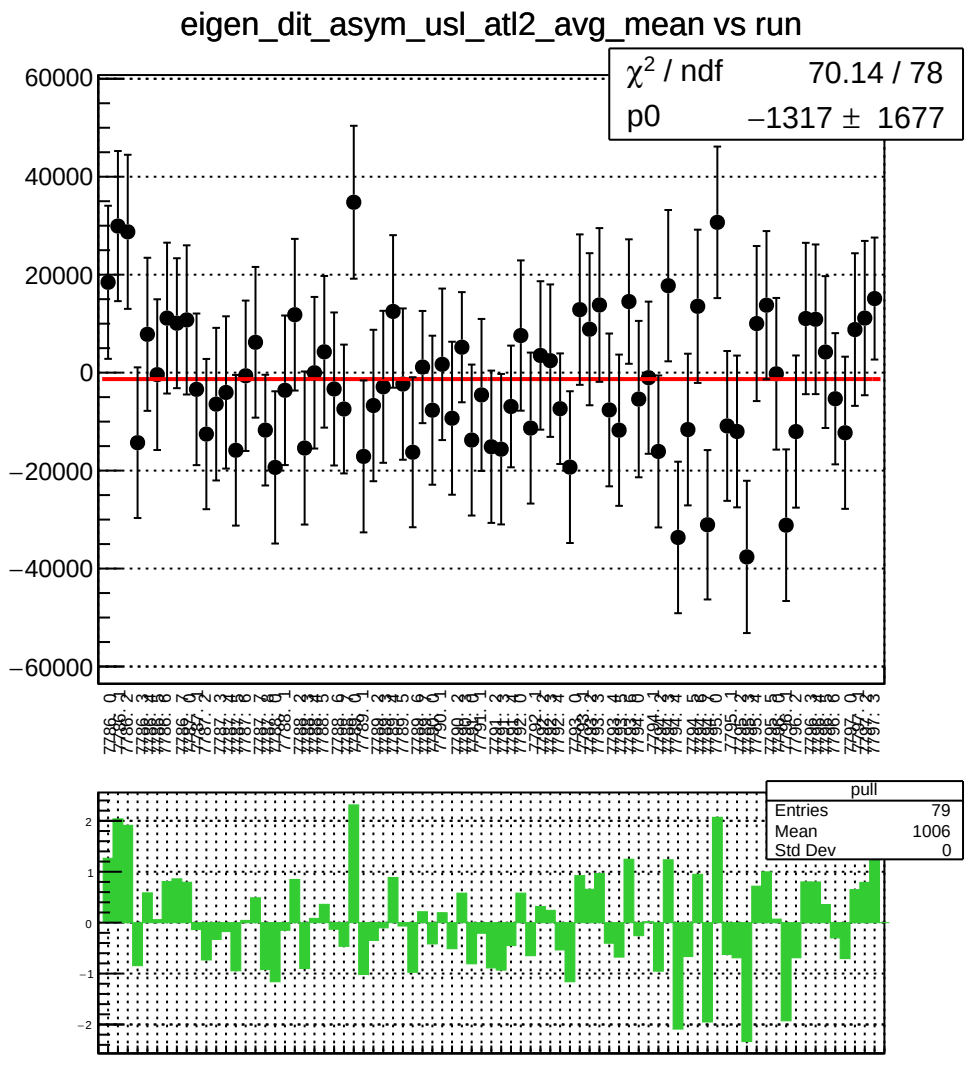

pull1D
Entries 79
Mean −0.002311
Std Dev 0.9423

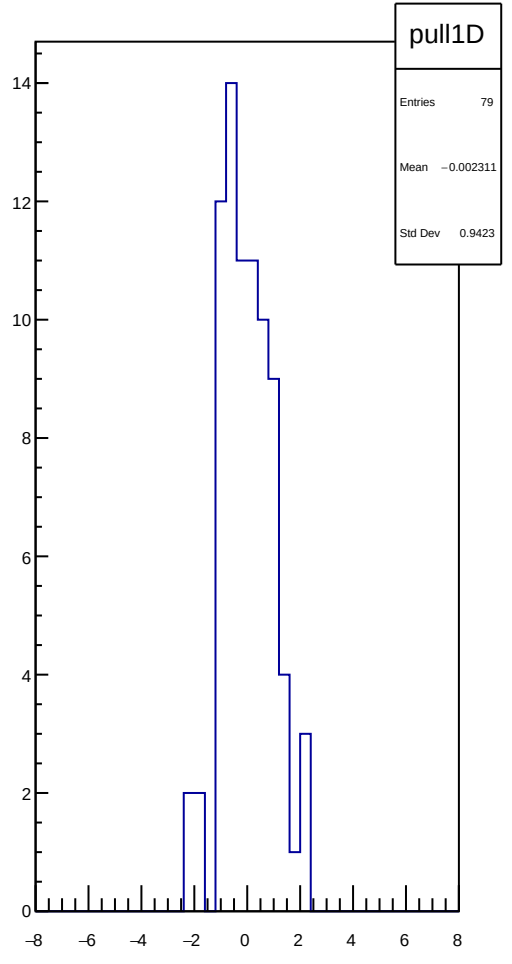

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 113 / 78
p0 1469 ± 1.186
1520
1500
1480
1460
1440
1420

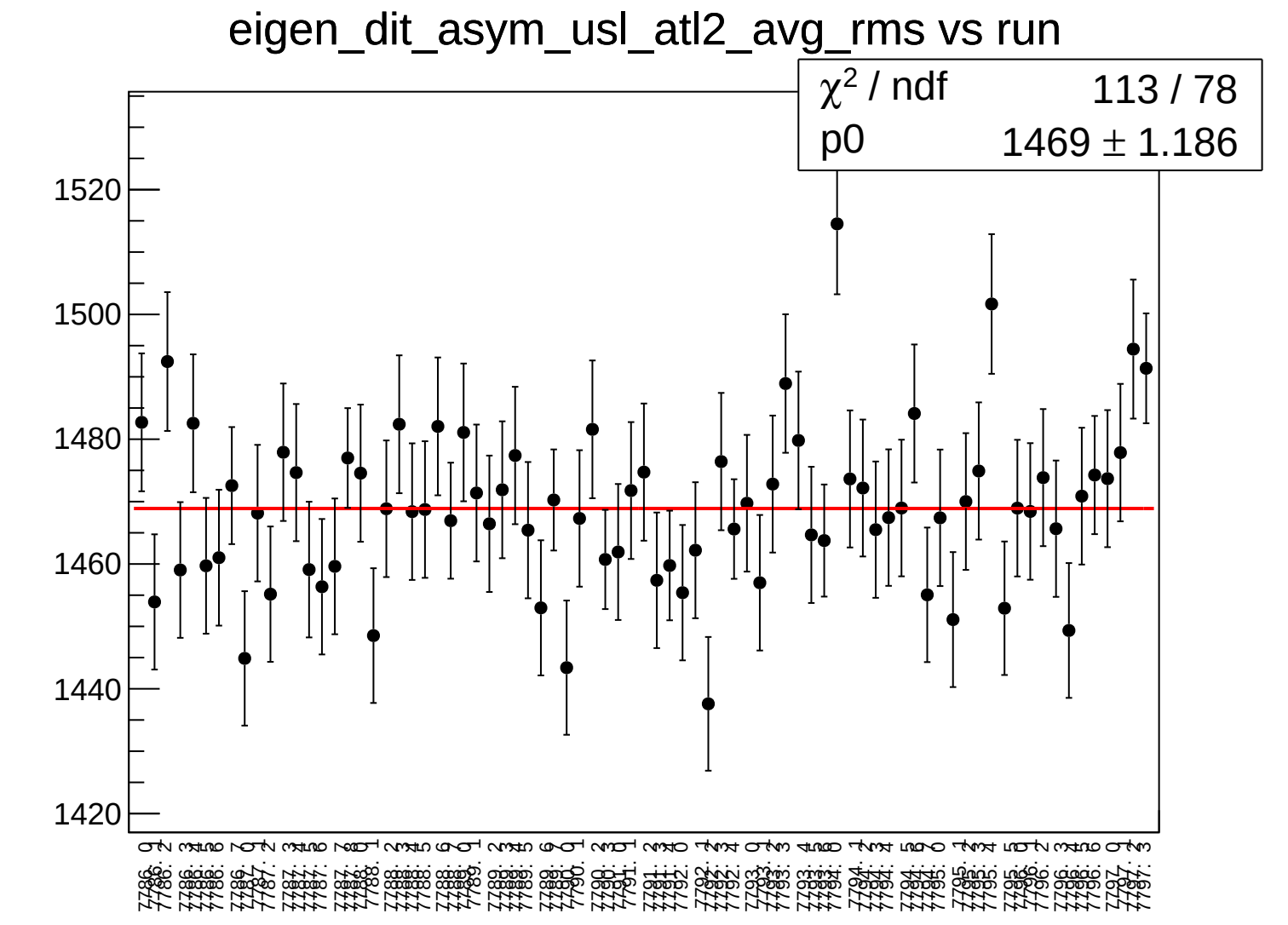

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 76.08 / 78
p0 −3081 ± 5301
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −796.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

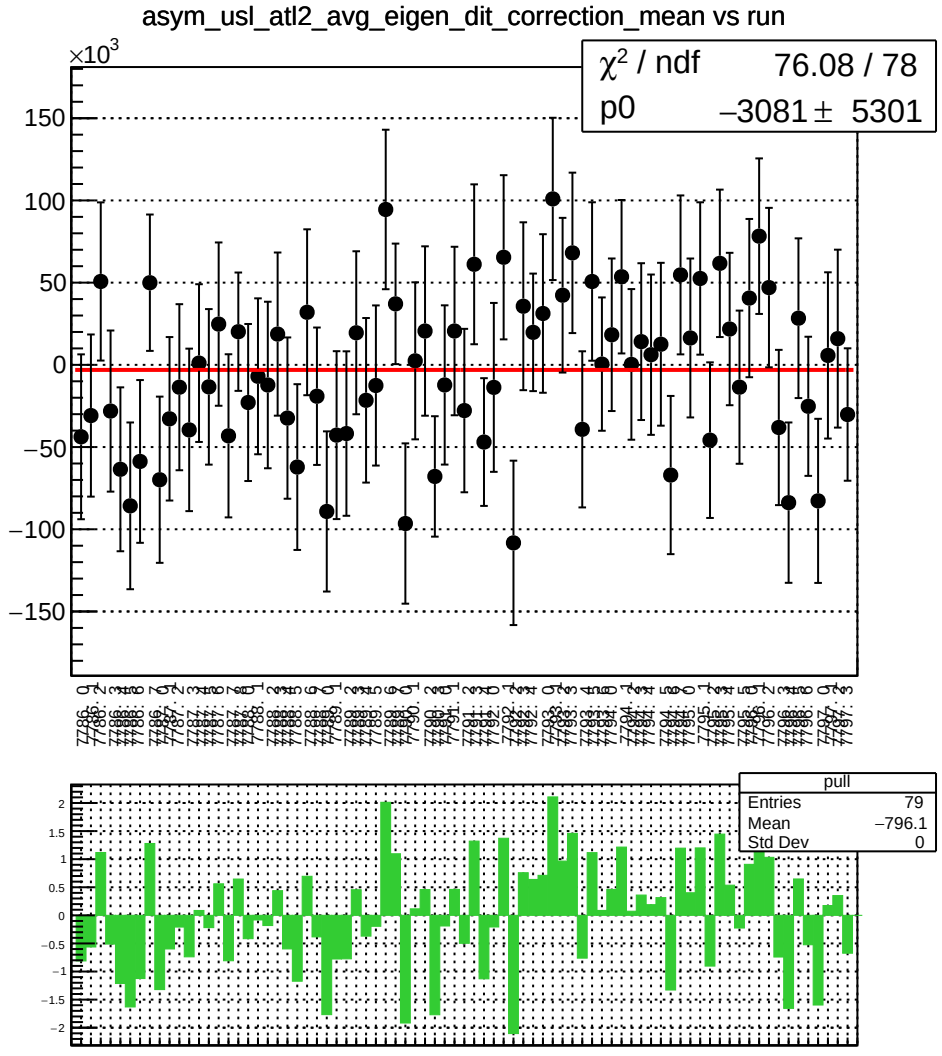

pull1D
Entries 79
Mean −0.006127
Std Dev 0.9813
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

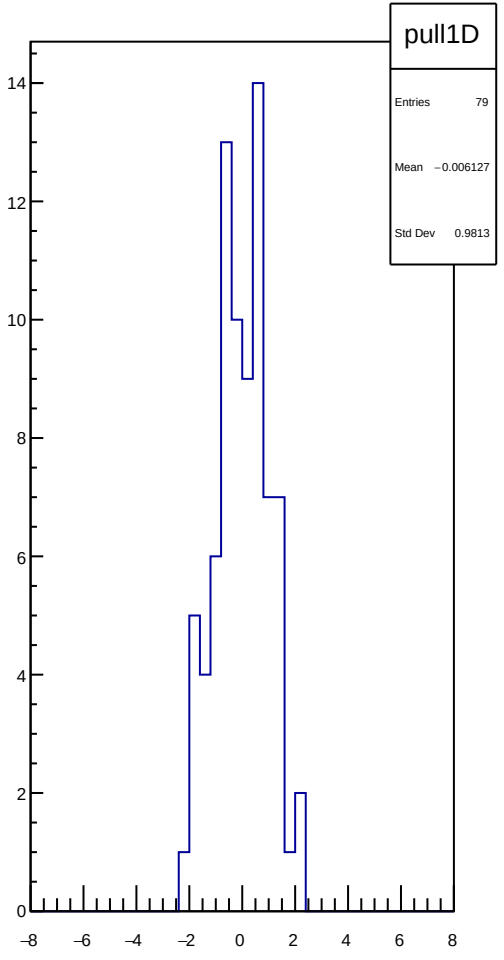

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1346 / 78
p0 4641 ± 3.749
5200
5000
4800
4600
4400
4200

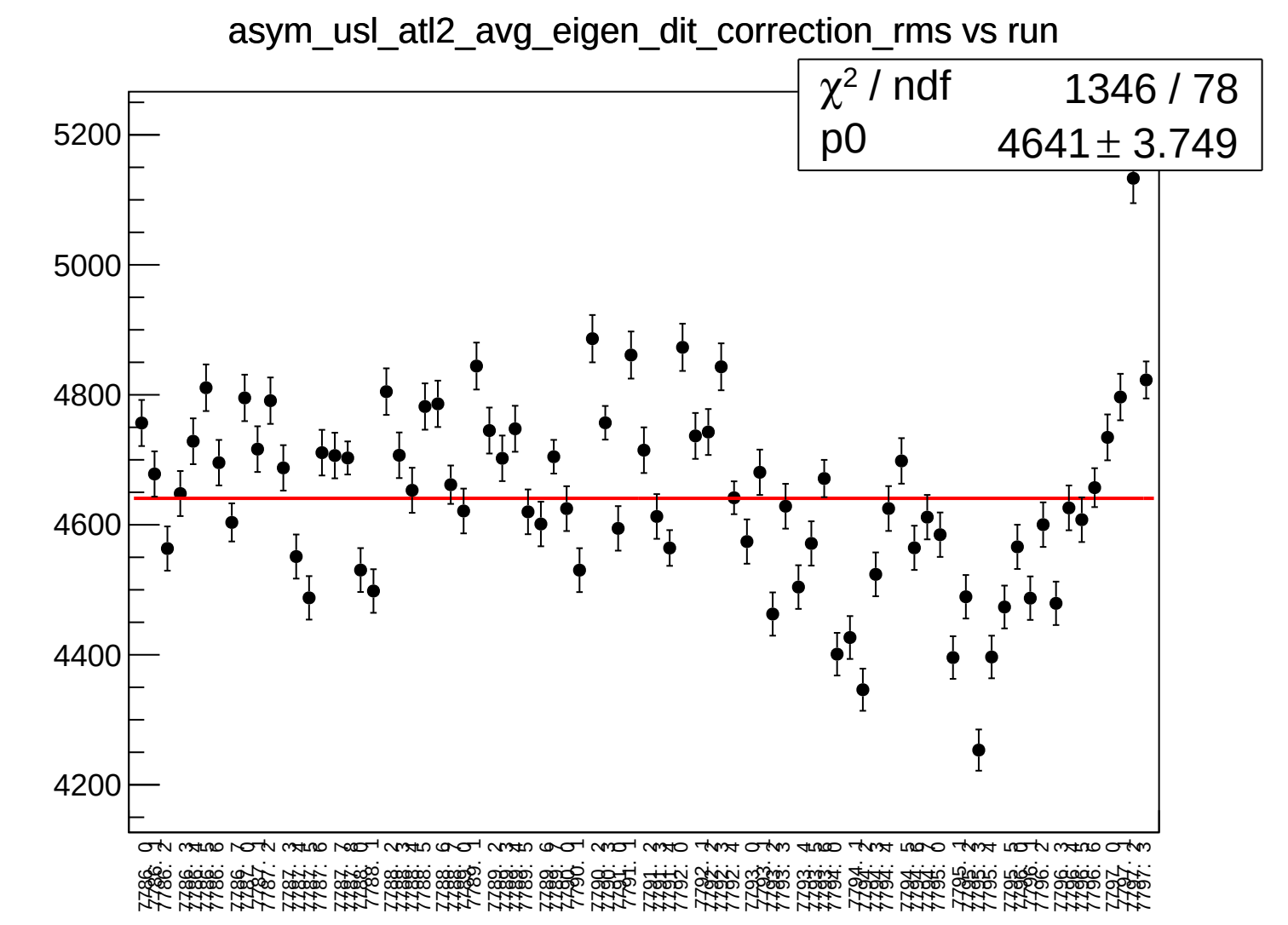

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 70.14 / 78
p0 −1317 ± 1677
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 1006
Std Dev 0
2
1
0
−1
−2

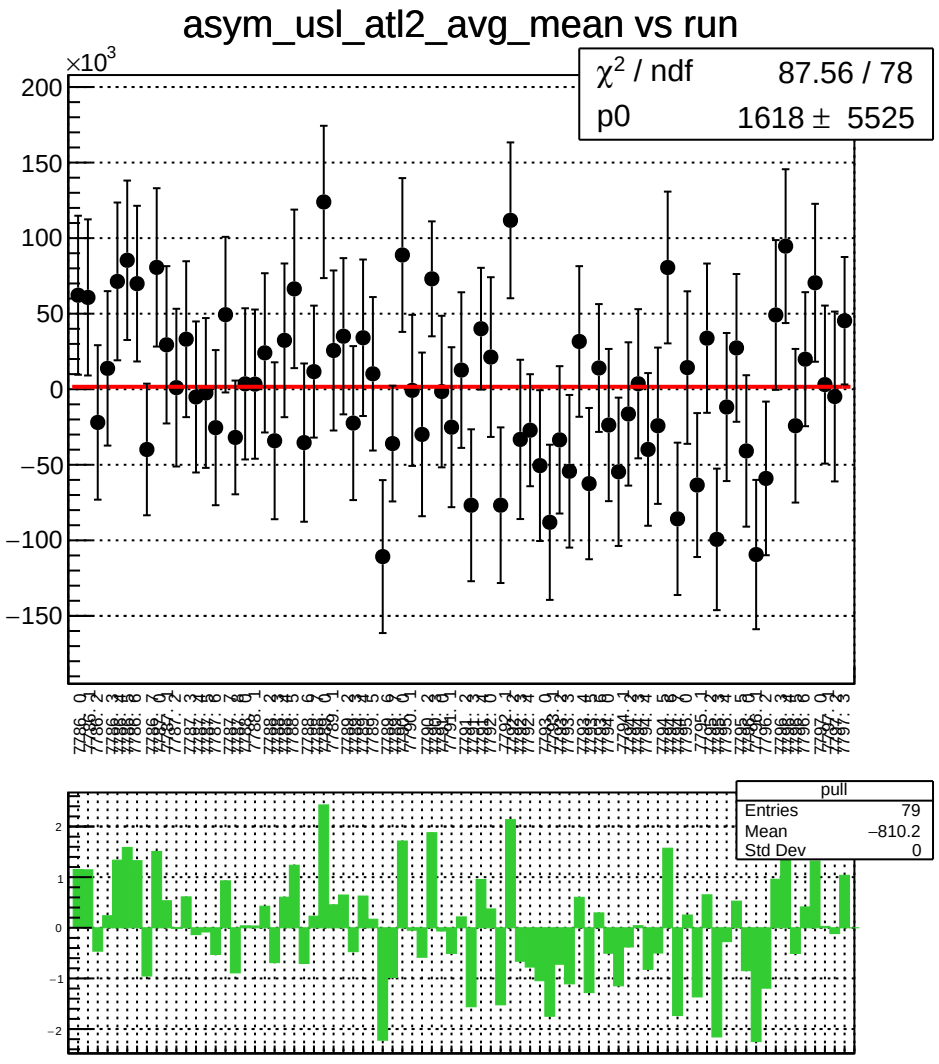

pull1D
Entries 79
Mean −0.002311
Std Dev 0.9423
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

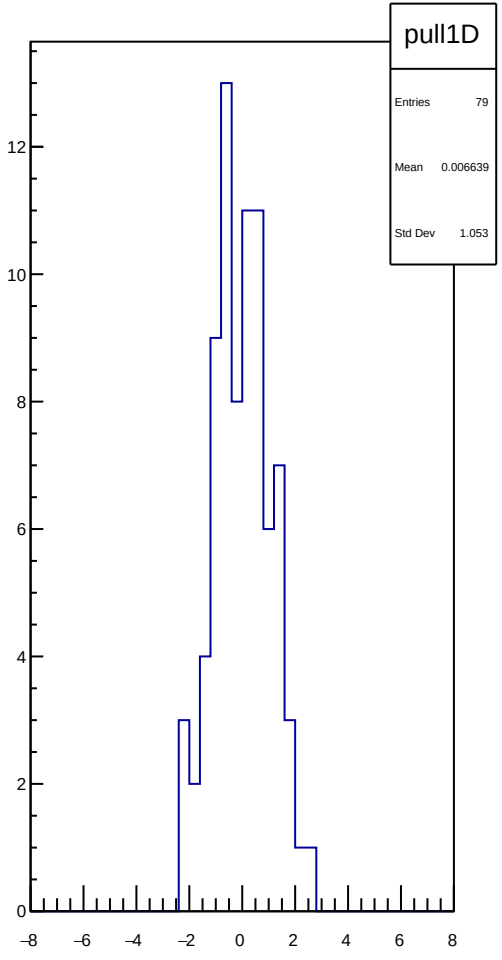

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 113 / 78
p0 1469 ± 1.186
1520
1500
1480
1460
1440
1420

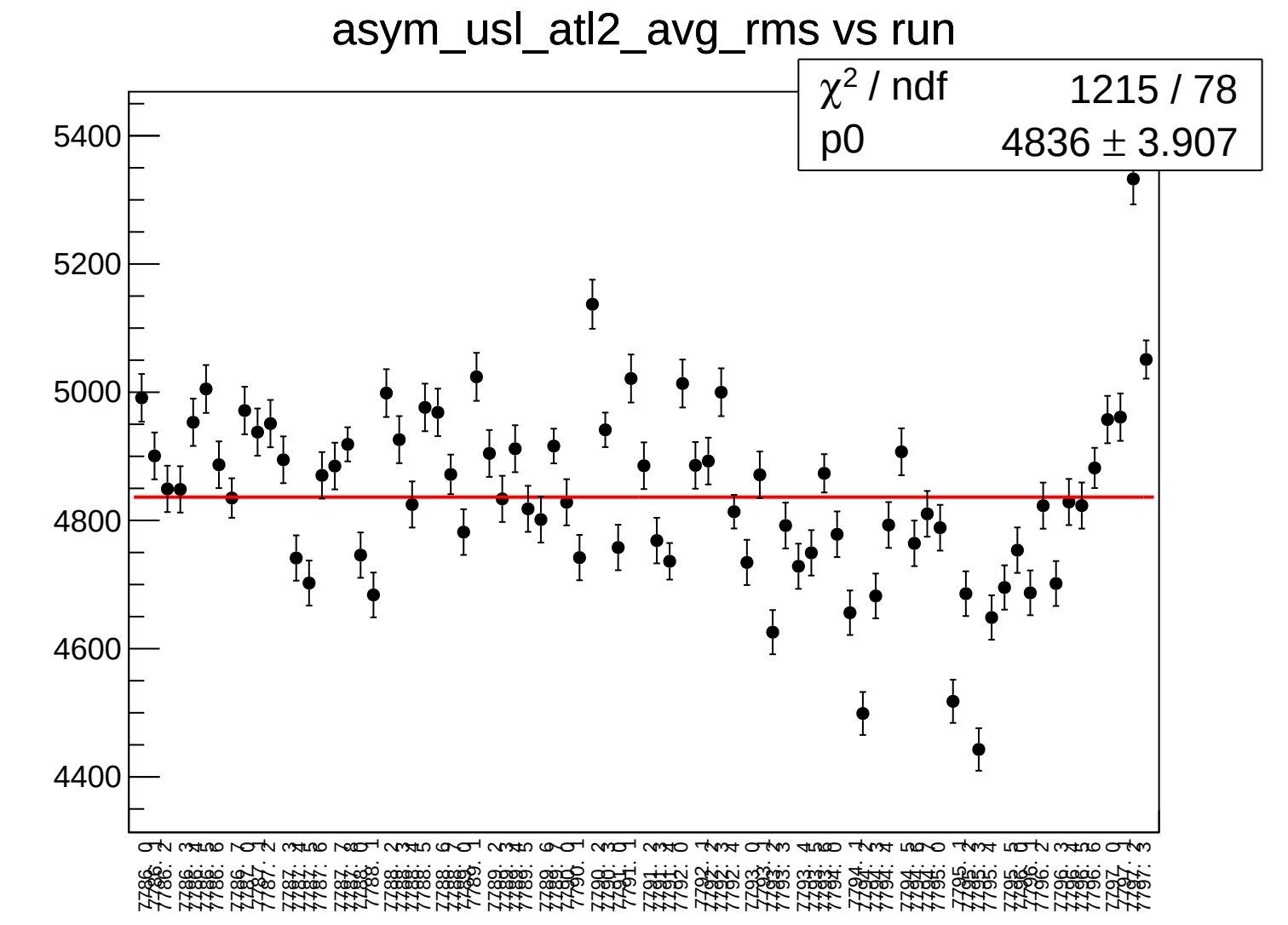

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 76.08 / 78
p0 −3081 ± 5301
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −796.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

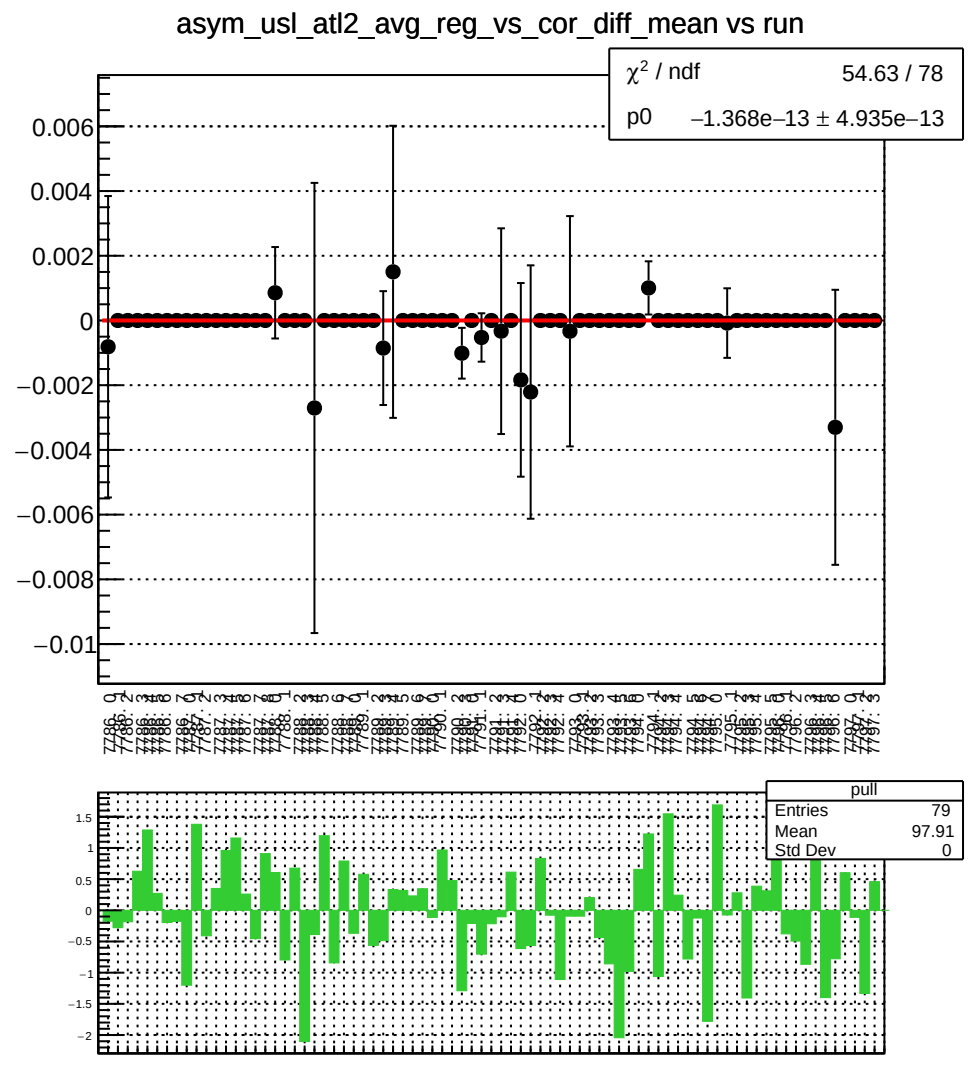

pull1D
Entries 79
Mean −0.006127
Std Dev 0.9813
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

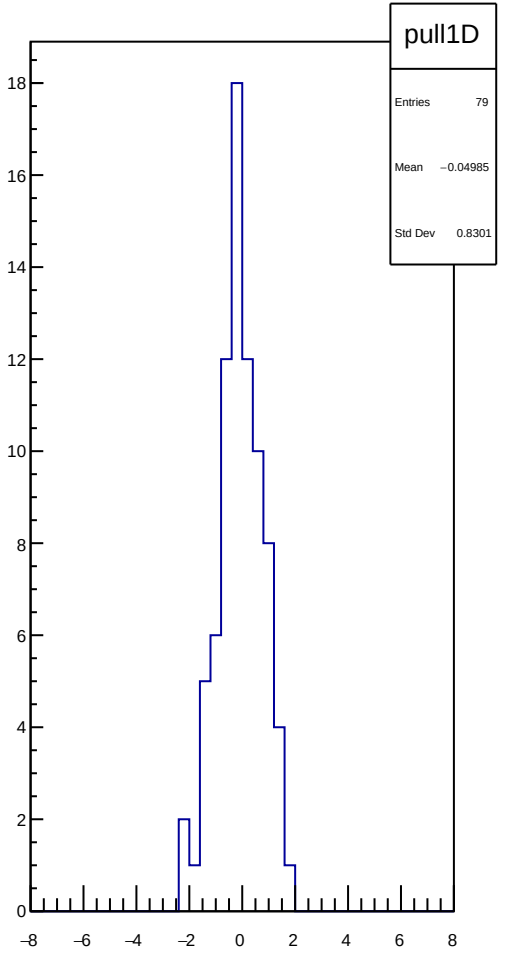

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1346 / 78
p0 4641 ± 3.749
5200
5000
4800
4600
4400
4200

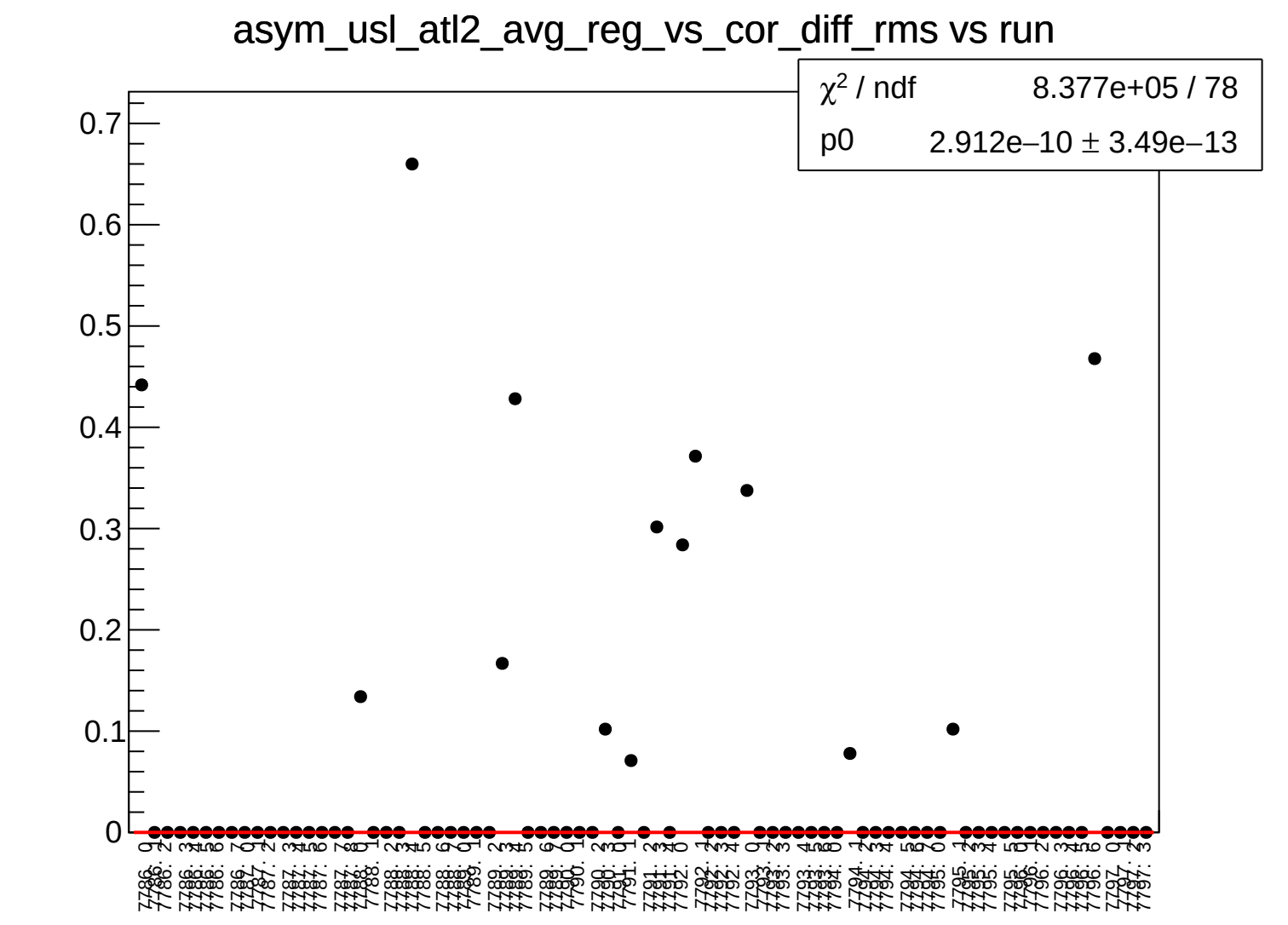

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 87.56 / 78
p0 1618 ± 5525
200
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −810.2
Std Dev 0
2
1
0
−1
−2

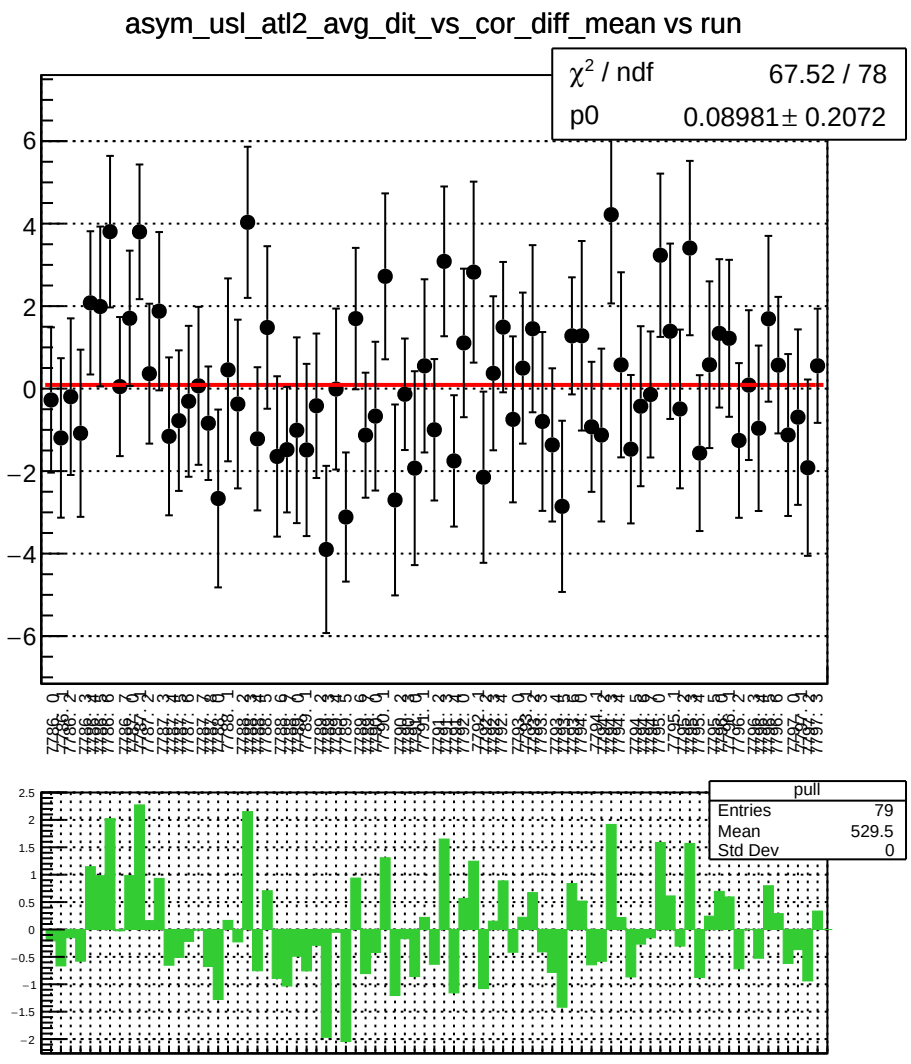

pull1D
Entries 79
Mean 0.006639
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

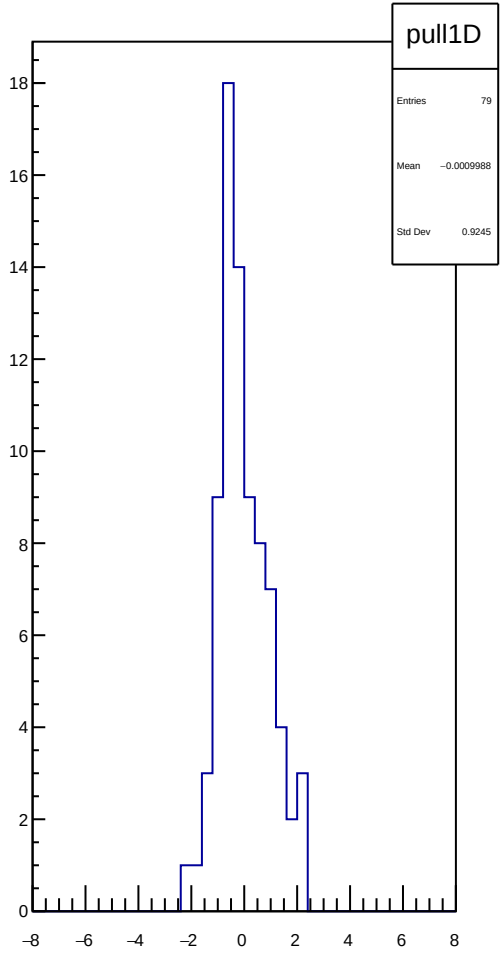

asym_usl_atl2_avg_rms vs run
χ² / ndf 1215 / 78
p0 4836 ± 3.907
5400
5200
5000
4800
4600
4400

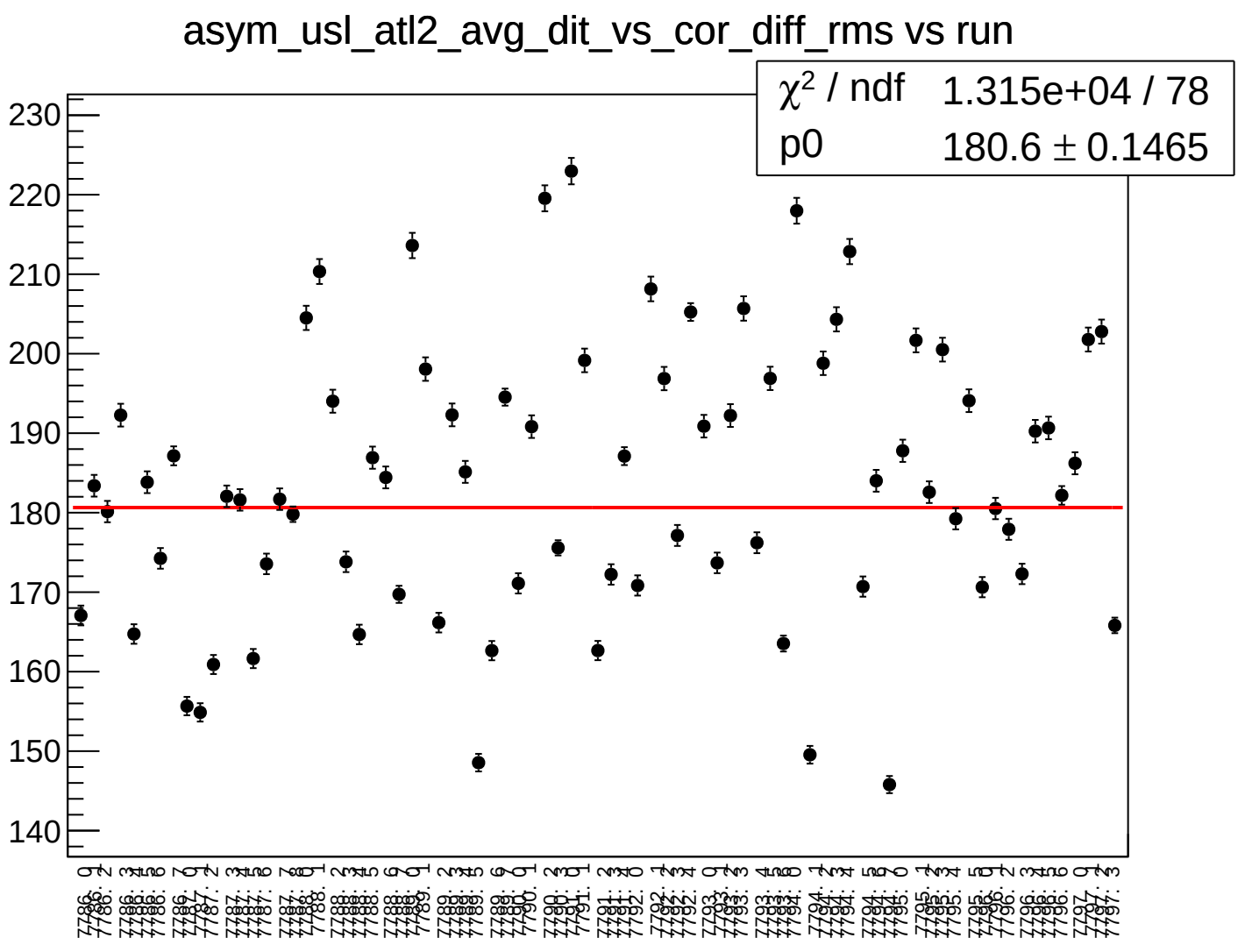

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 54.63 / 78
p0 −1.368e−13 ± 4.935e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 79
Mean 97.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

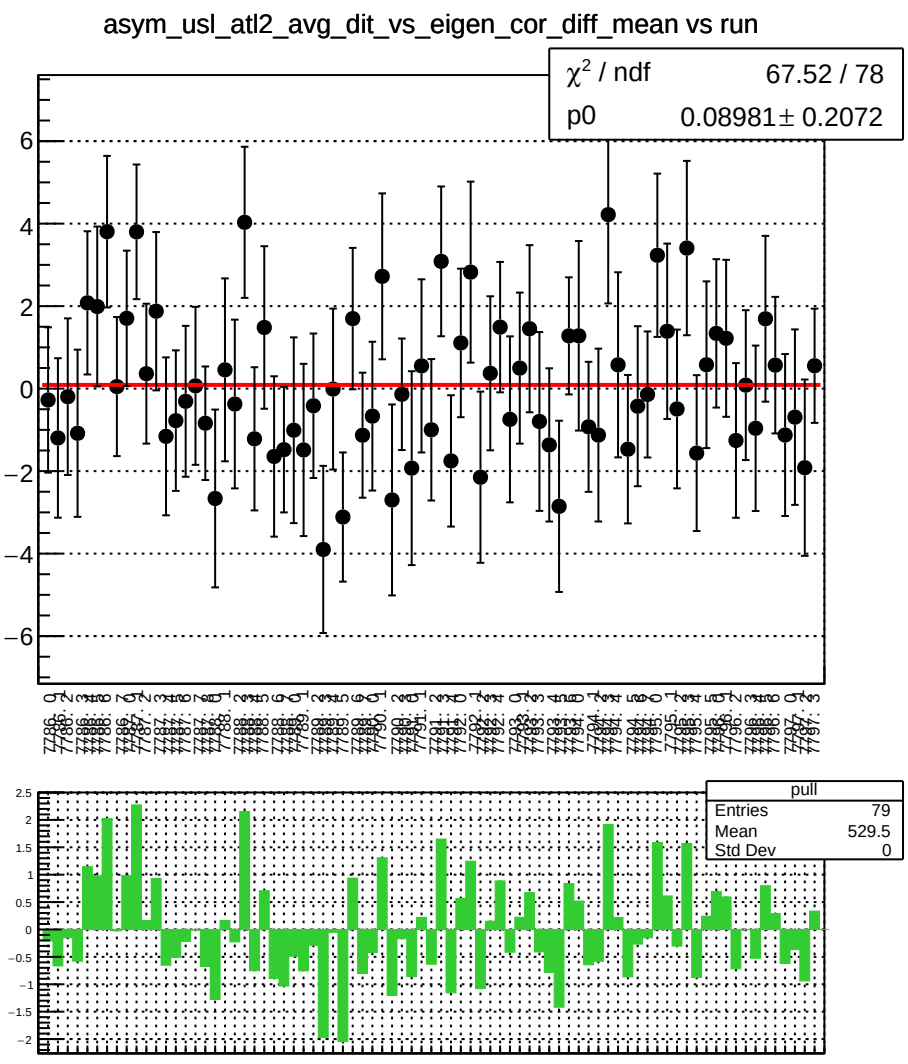

pull1D
Entries 79
Mean −0.04985
Std Dev 0.8301
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

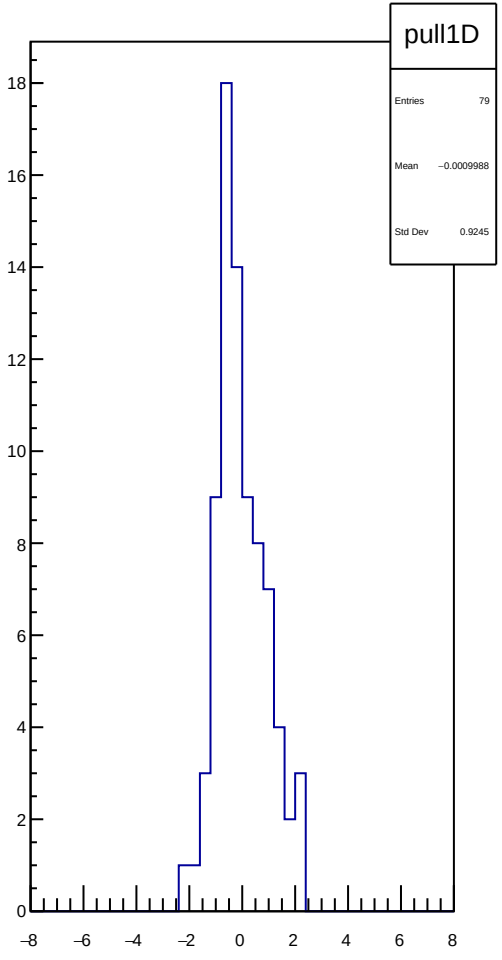

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.377e+05 / 78
p0 2.912e−10 ± 3.49e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

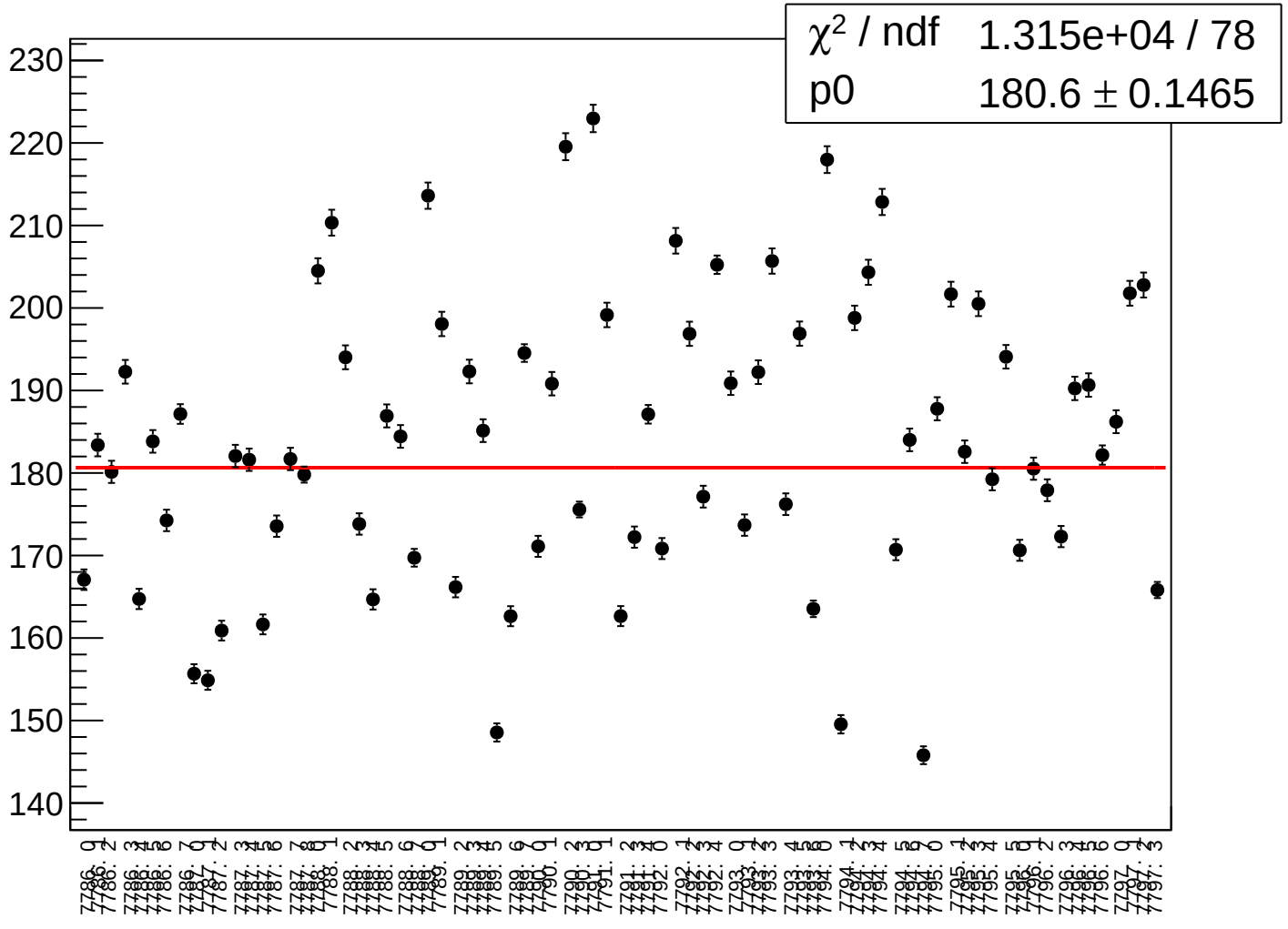

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.52 / 78
p0 0.08981 ± 0.2072
pull
Entries 79
Mean 529.5
Std Dev 0

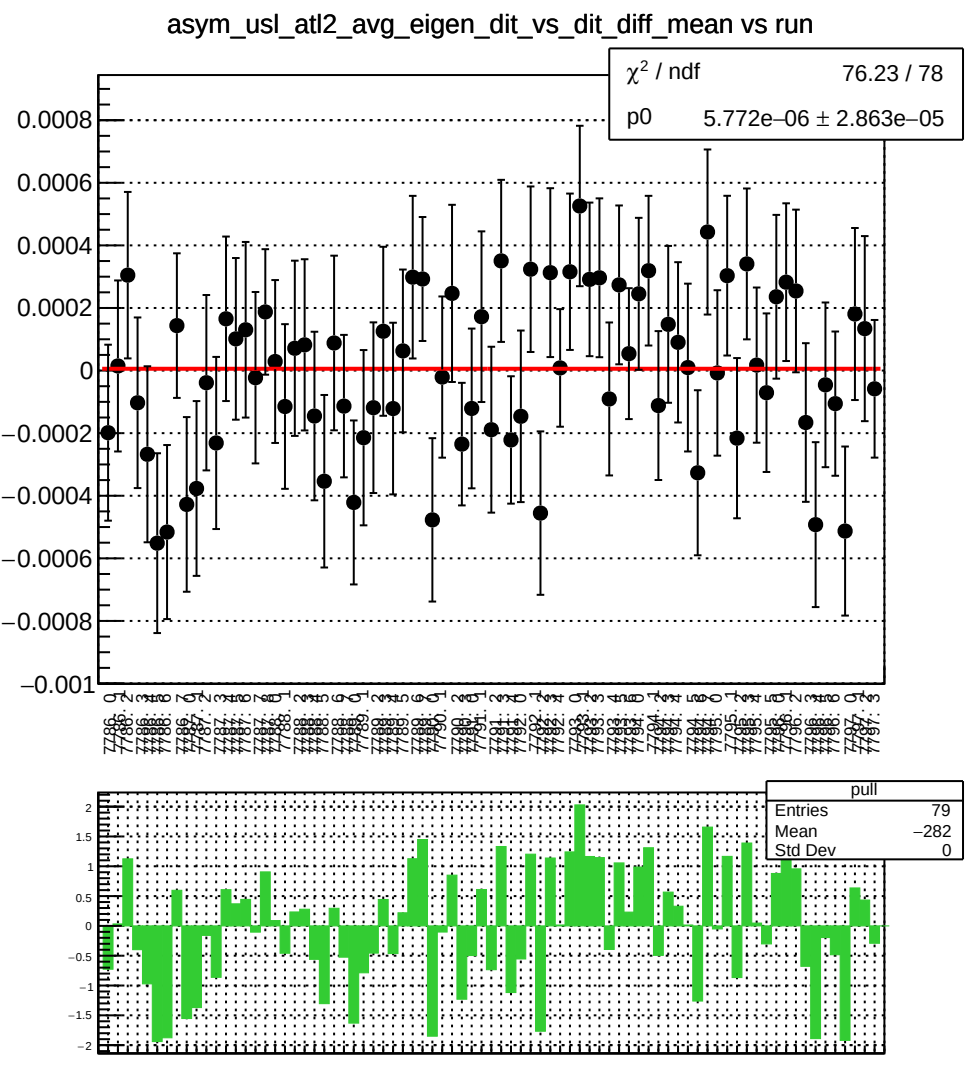

pull1D
Entries 79
Mean −0.0009988
Std Dev 0.9245

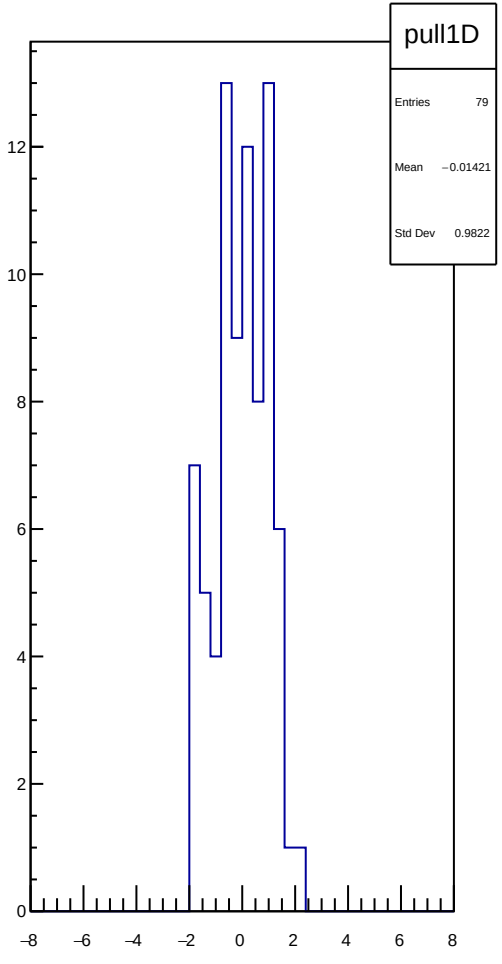

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.315e+04 / 78
p0 180.6 ± 0.1465
230
220
210
200
190
180
170
160
150
140

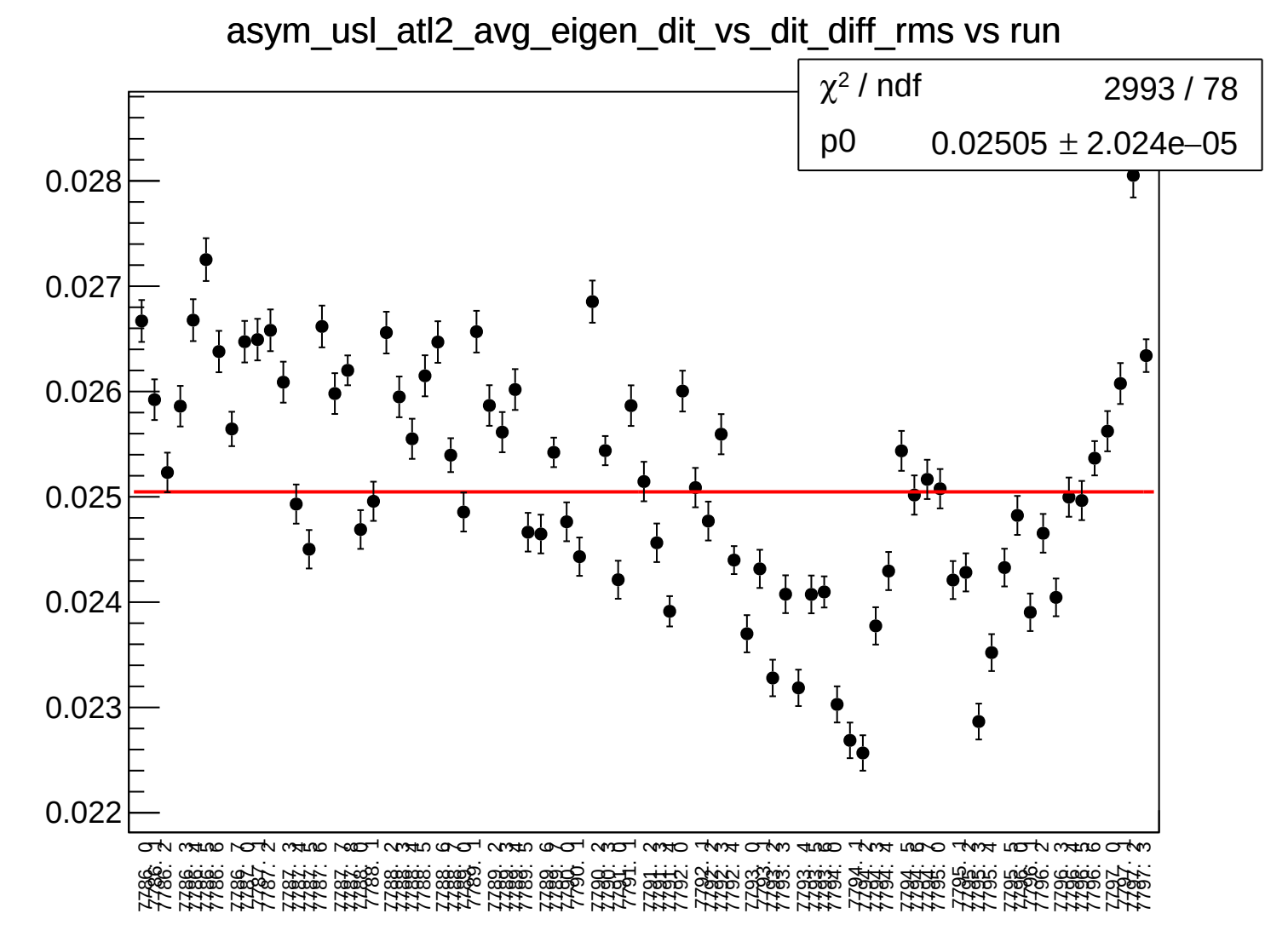

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.52 / 78
p0 0.08981 ± 0.2072
pull
Entries 79
Mean 529.5
Std Dev 0

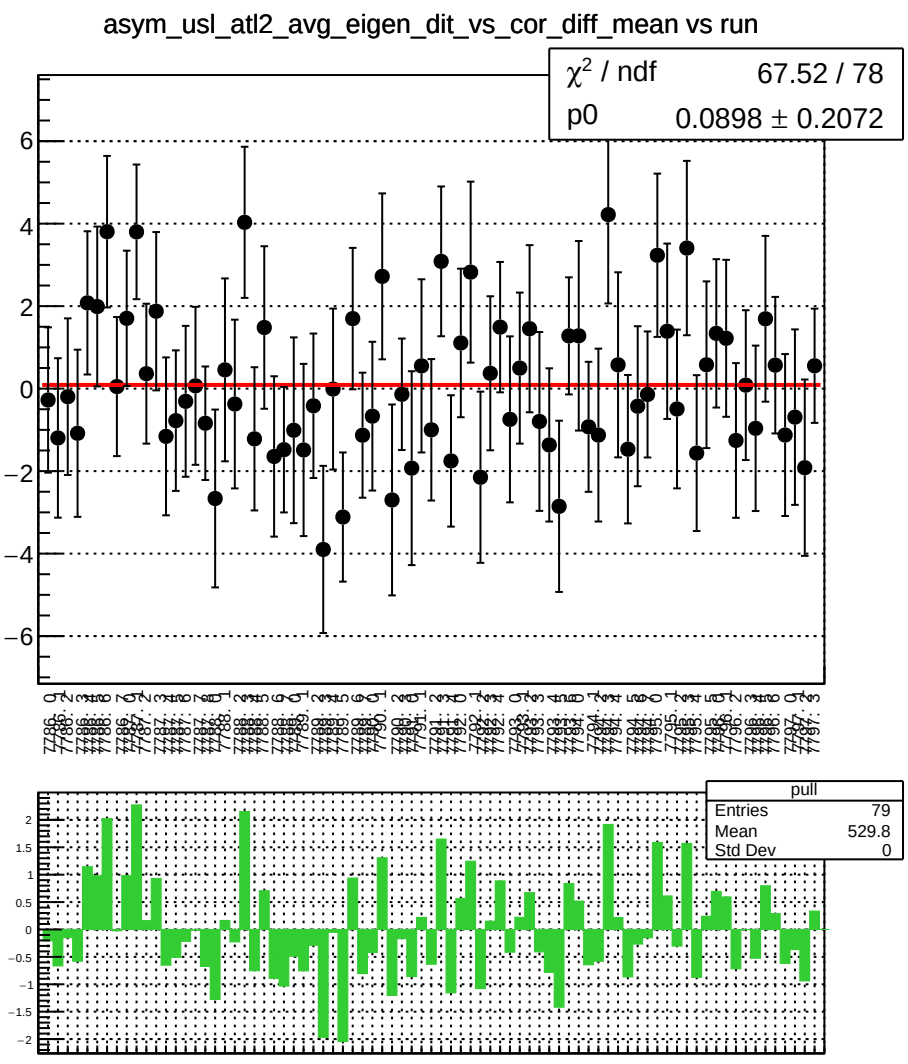

pull1D
Entries 79
Mean −0.0009988
Std Dev 0.9245

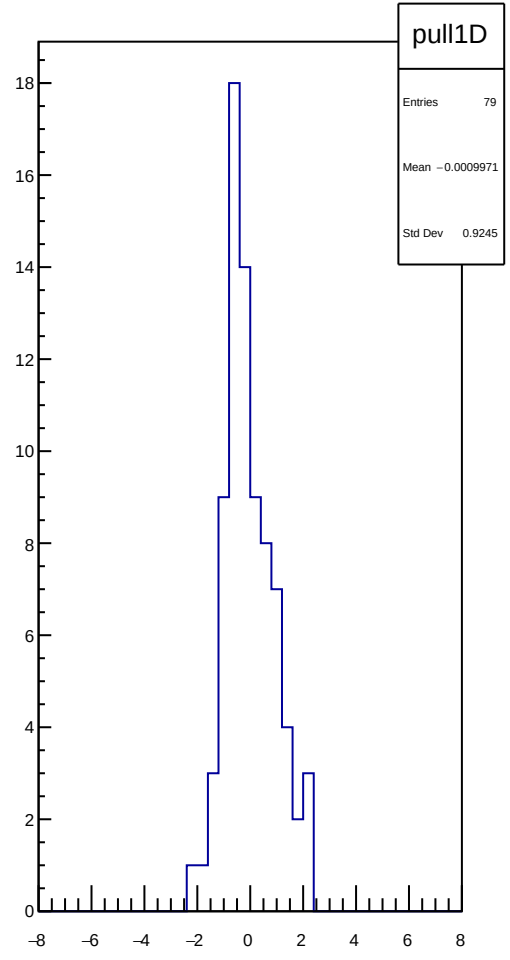

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.315e+04 / 78
p0 180.6 ± 0.1465
230
220
210
200
190
180
170
160
150
140

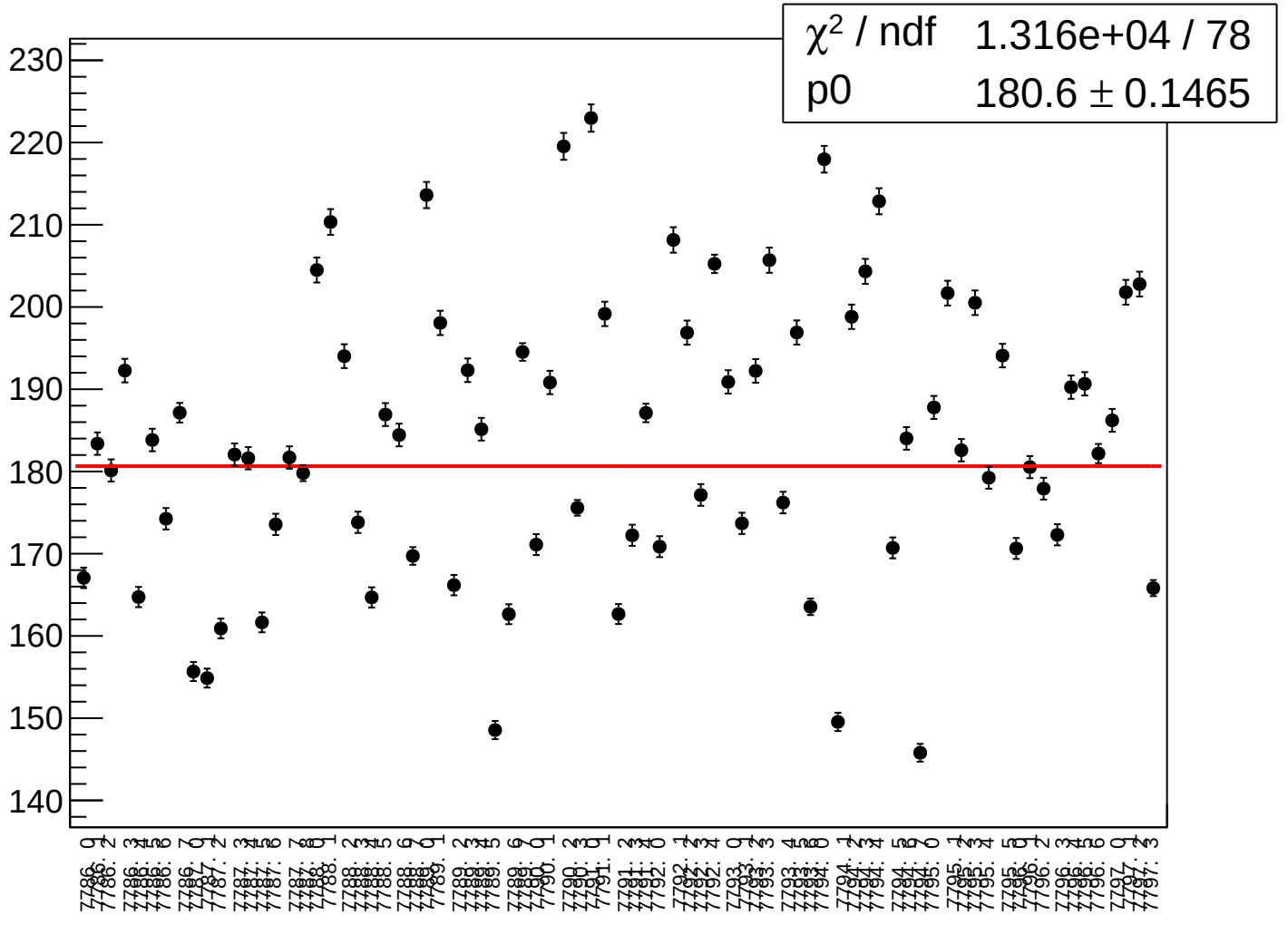

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.23 / 78
p0 5.772e−06 ± 2.863e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 79
Mean −282
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

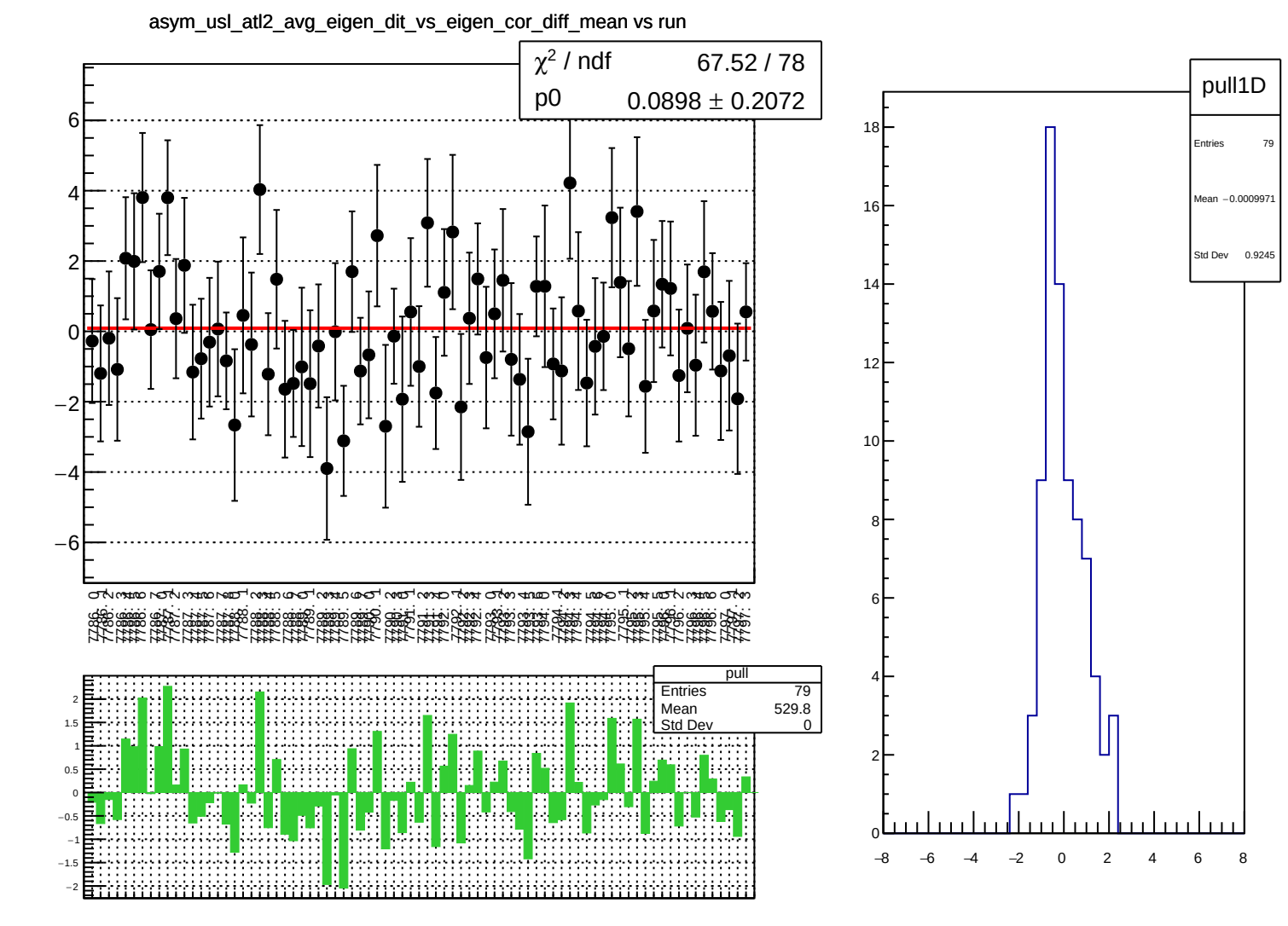

pull1D
Entries 79
Mean −0.01421
Std Dev 0.9822
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

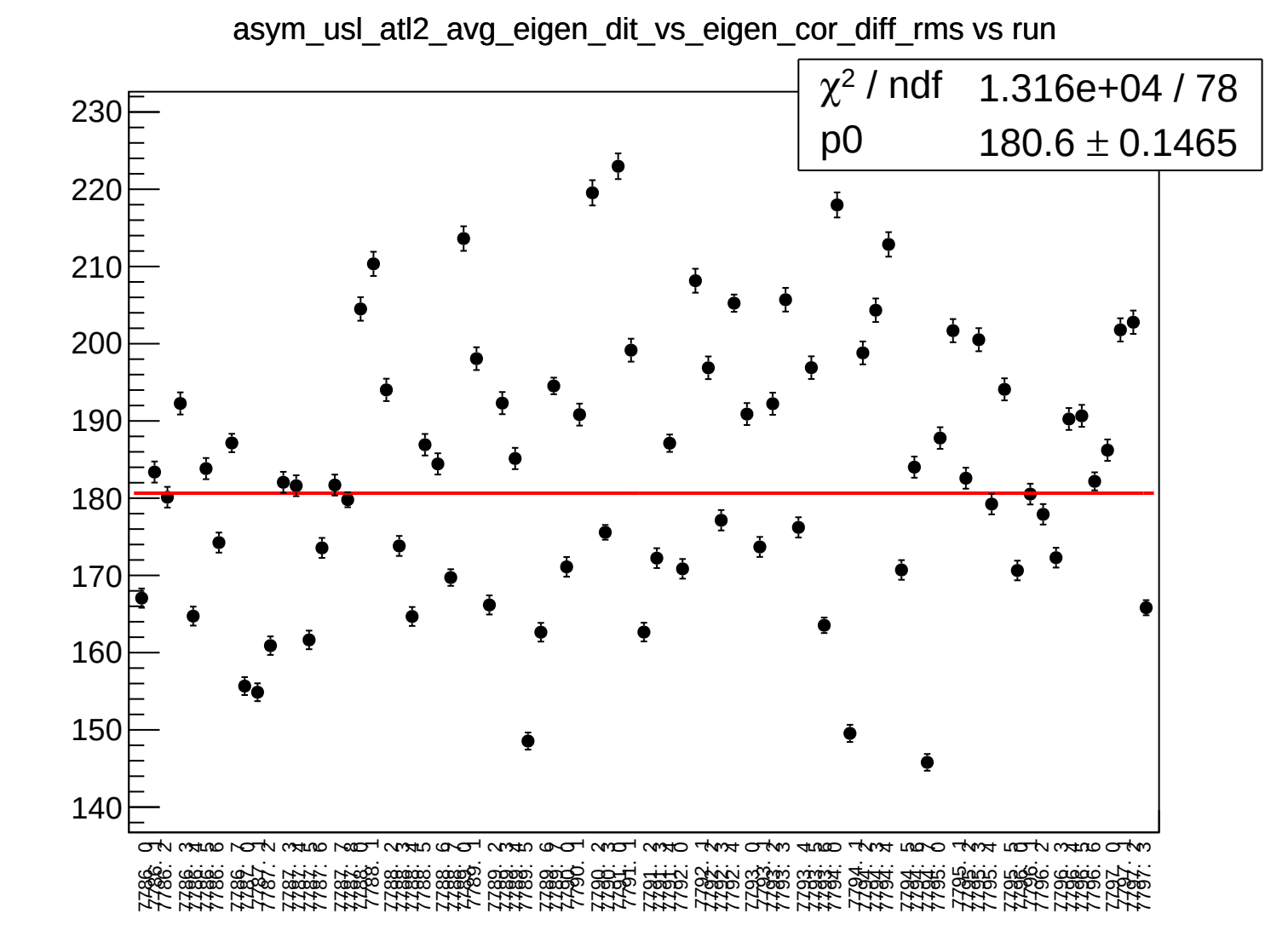

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2993 / 78
p0 0.02505 ± 2.024e–05
0.028
0.027
0.026
0.025
0.024
0.023
0.022

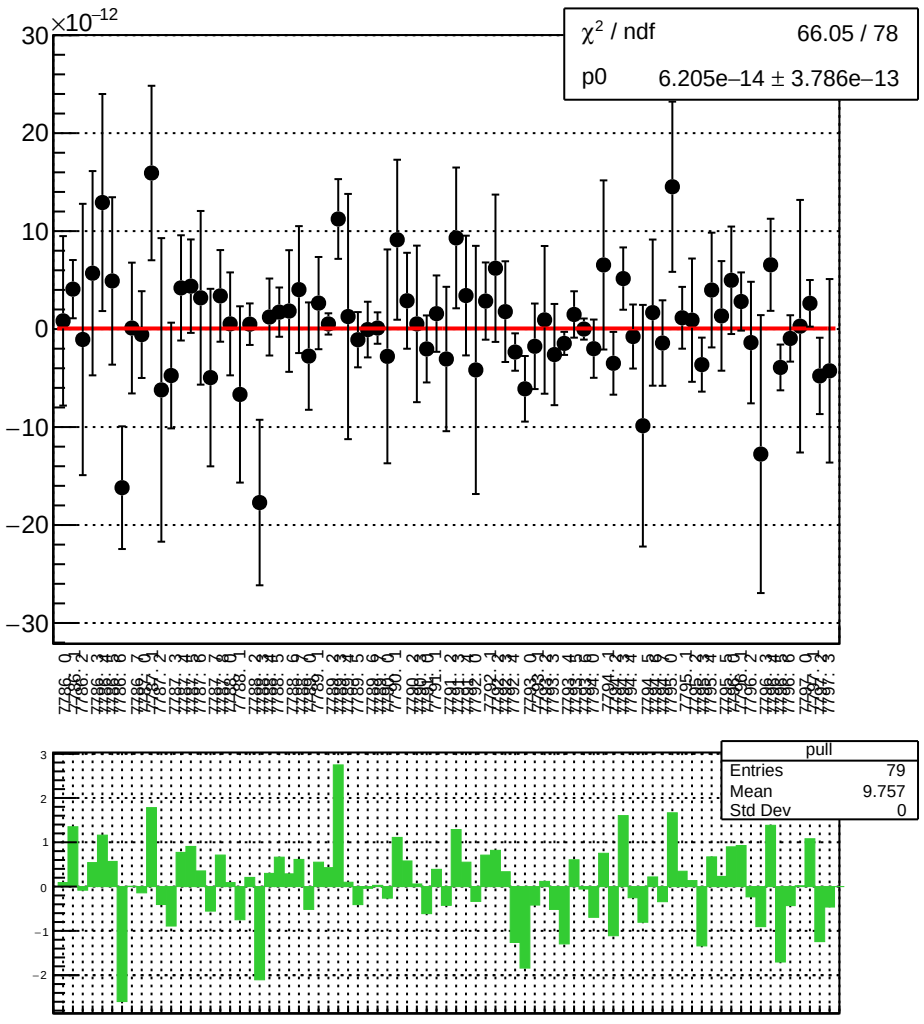

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.52 / 78
p0 0.0898 ± 0.2072
pull
Entries 79
Mean 529.8
Std Dev 0

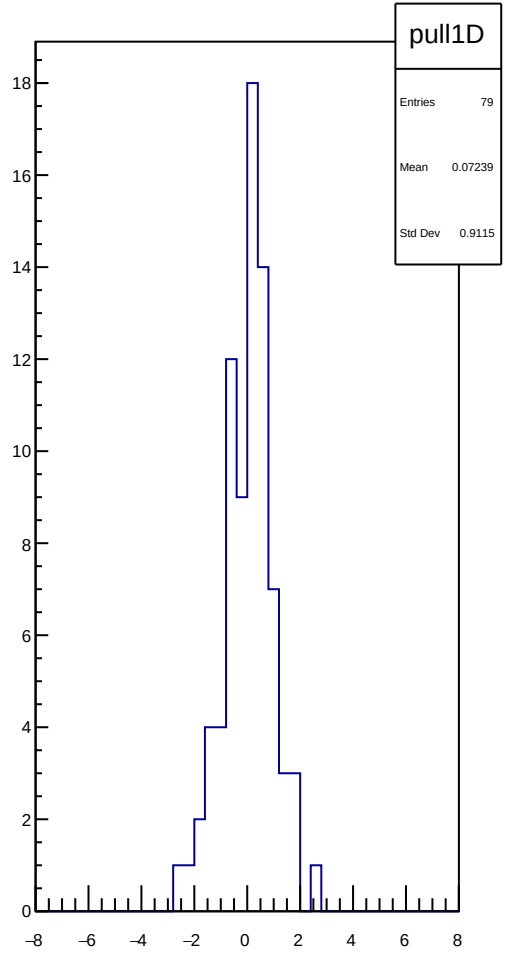

pull1D
Entries 79
Mean −0.0009971
Std Dev 0.9245

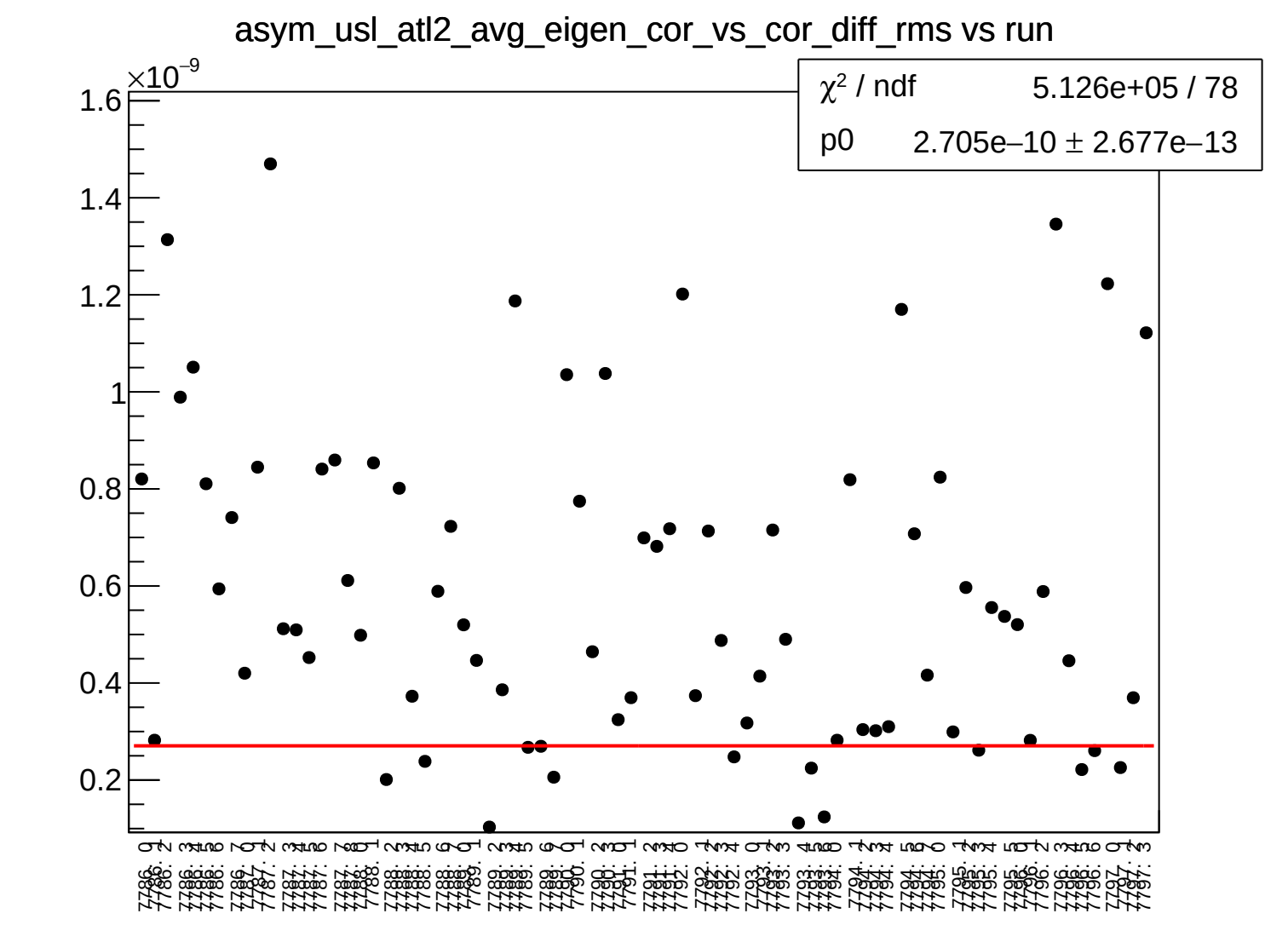

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.316e+04 / 78
p0 180.6 ± 0.1465
230
220
210
200
190
180
170
160
150
140

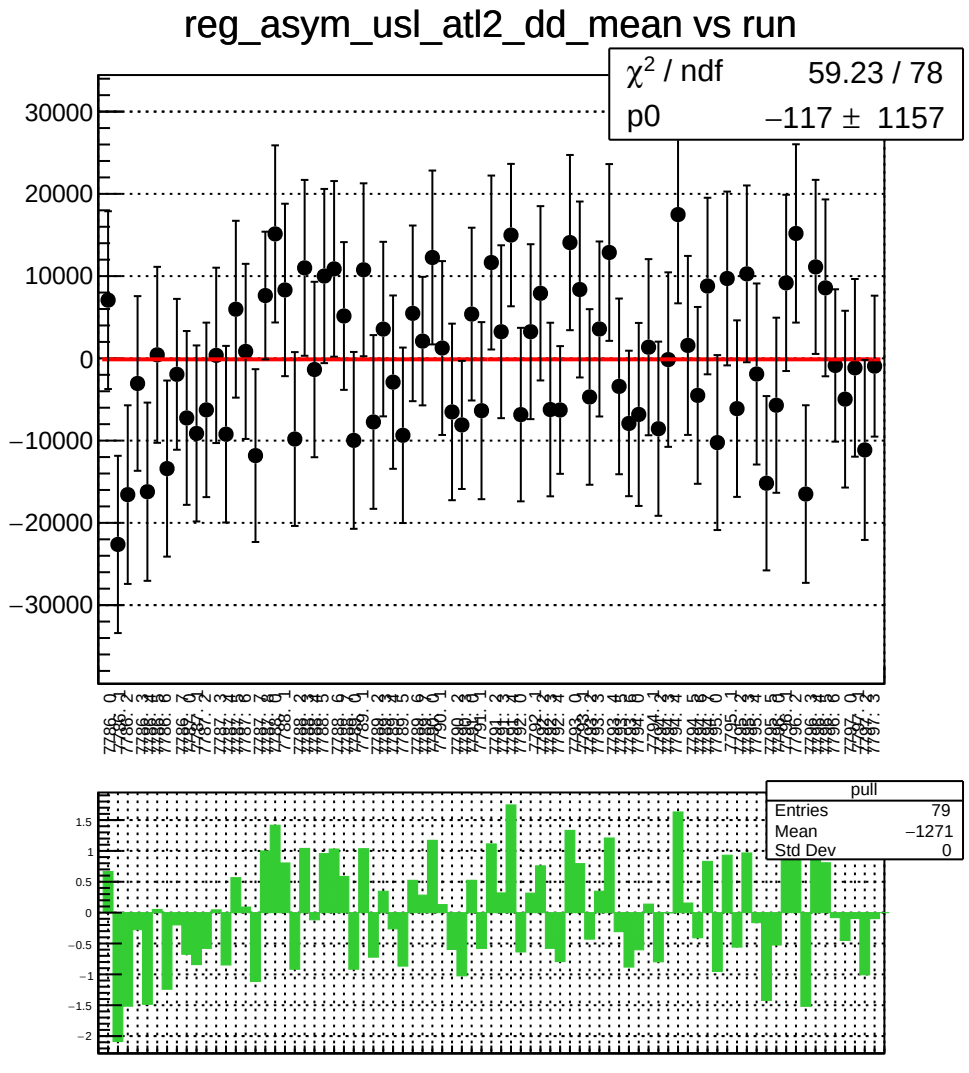

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.52 / 78
p0 0.0898 ± 0.2072
pull
Entries 79
Mean 529.8
Std Dev 0
pull1D
Entries 79
Mean −0.0009971
Std Dev 0.9245

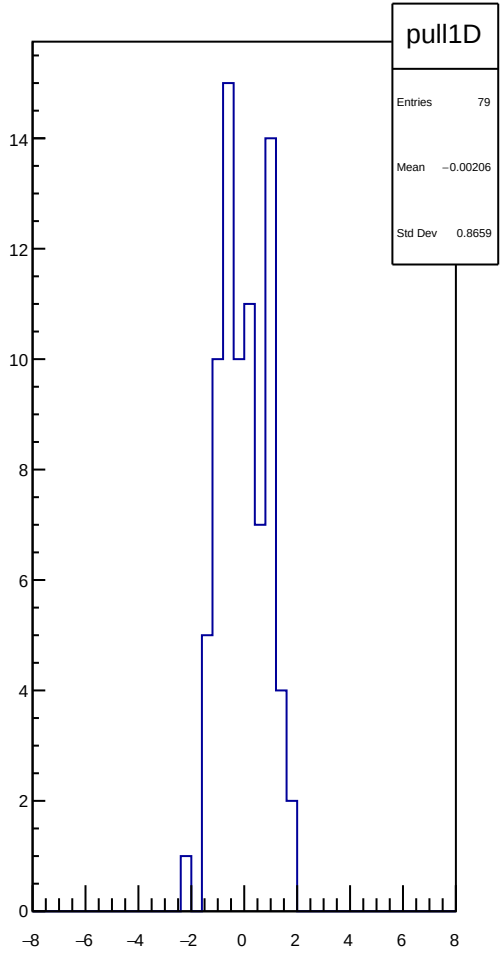

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.316e+04 / 78
p0 180.6 ± 0.1465
230
220
210
200
190
180
170
160
150
140

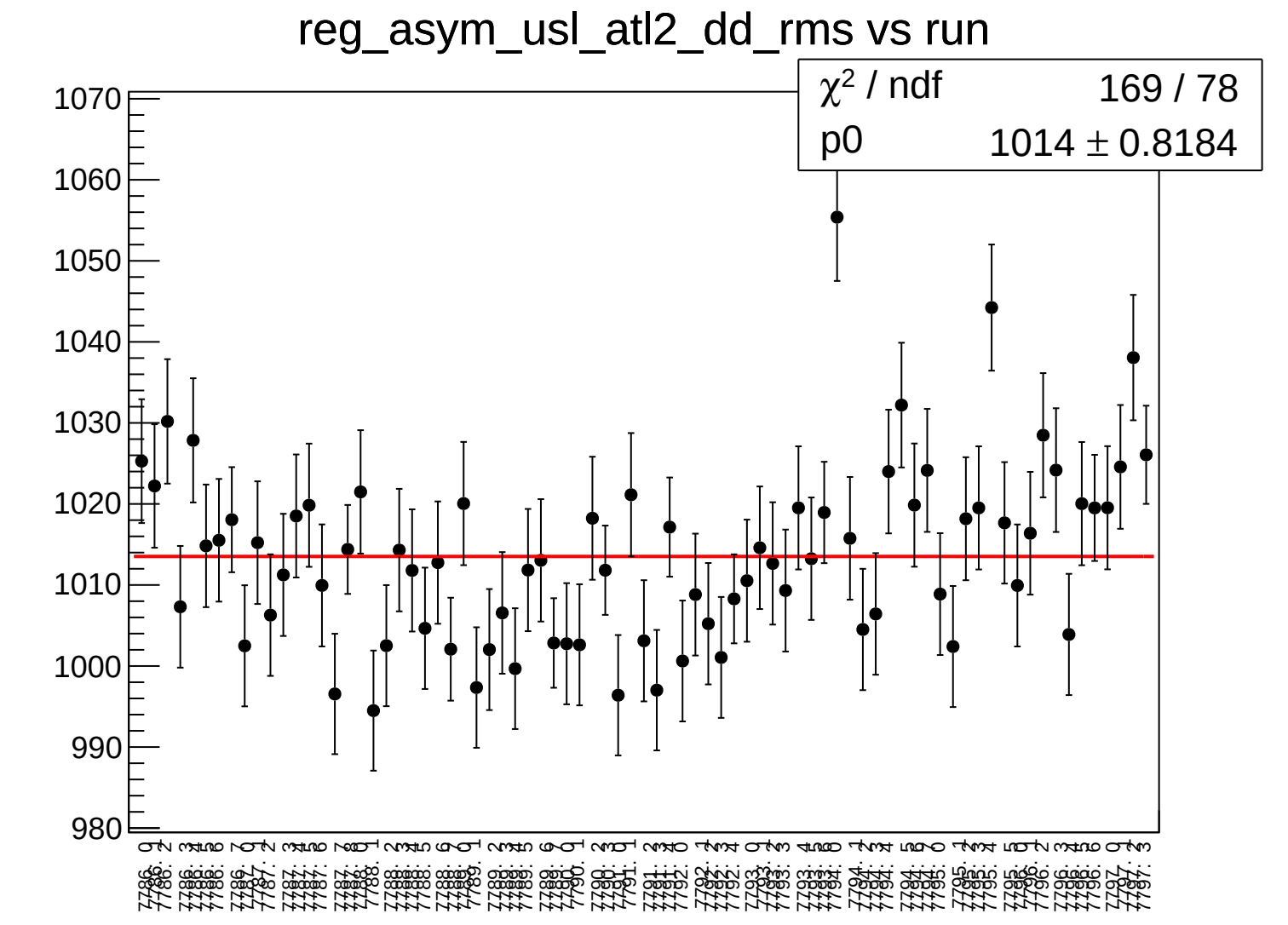

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.05 / 78
p0 6.205e−14 ± 3.786e−13
pull
Entries 79
Mean 9.757
Std Dev 0

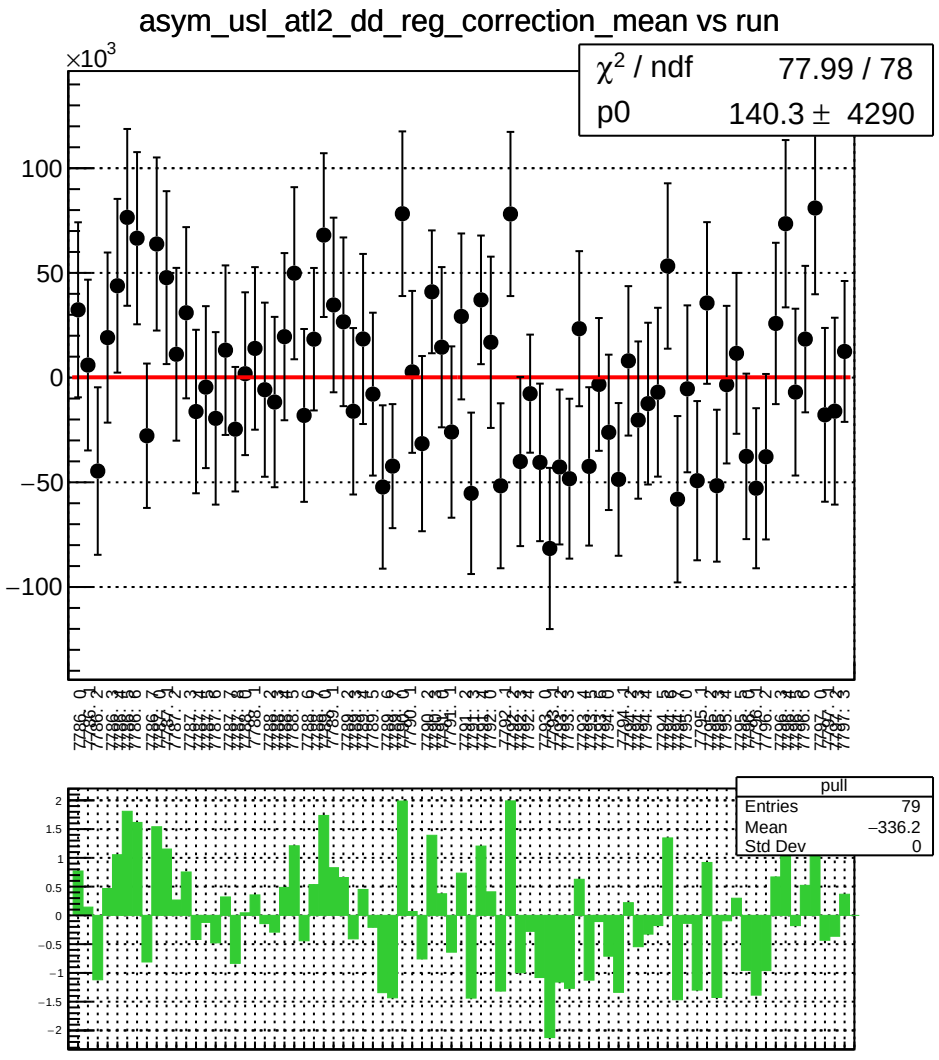

pull1D
Entries 79
Mean 0.07239
Std Dev 0.9115

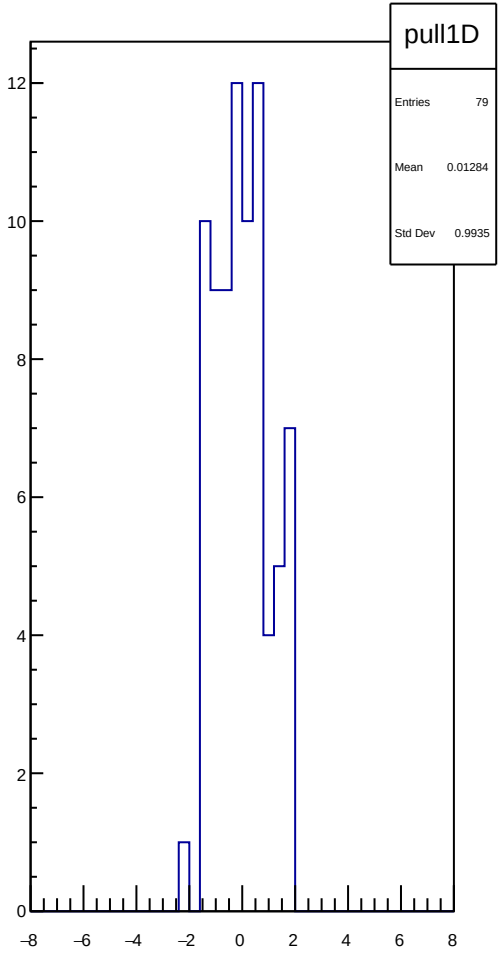

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.126e+05 / 78
p0 2.705e−10 ± 2.677e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

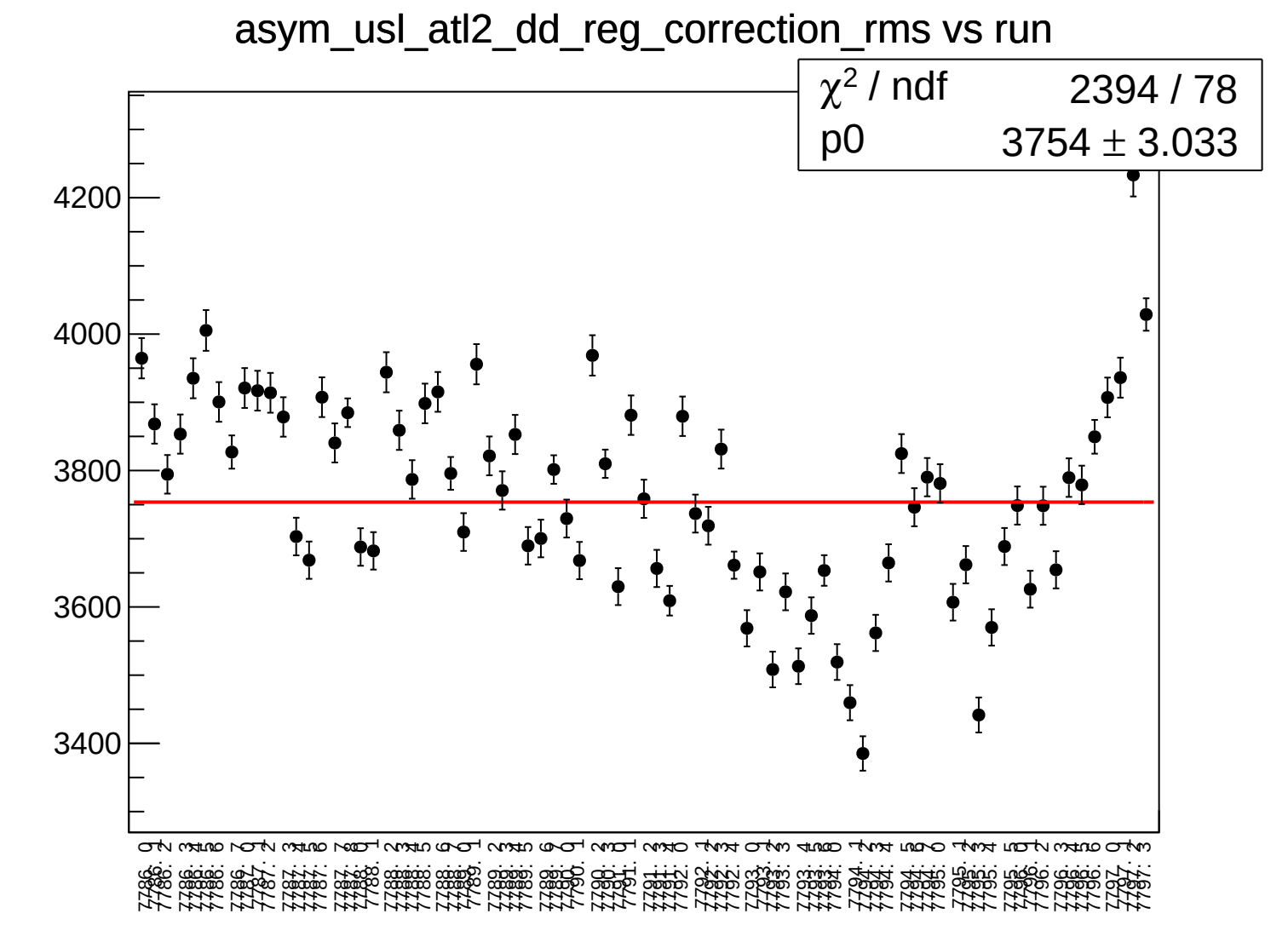

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 59.23 / 78
p0 −117 ± 1157
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −1271
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

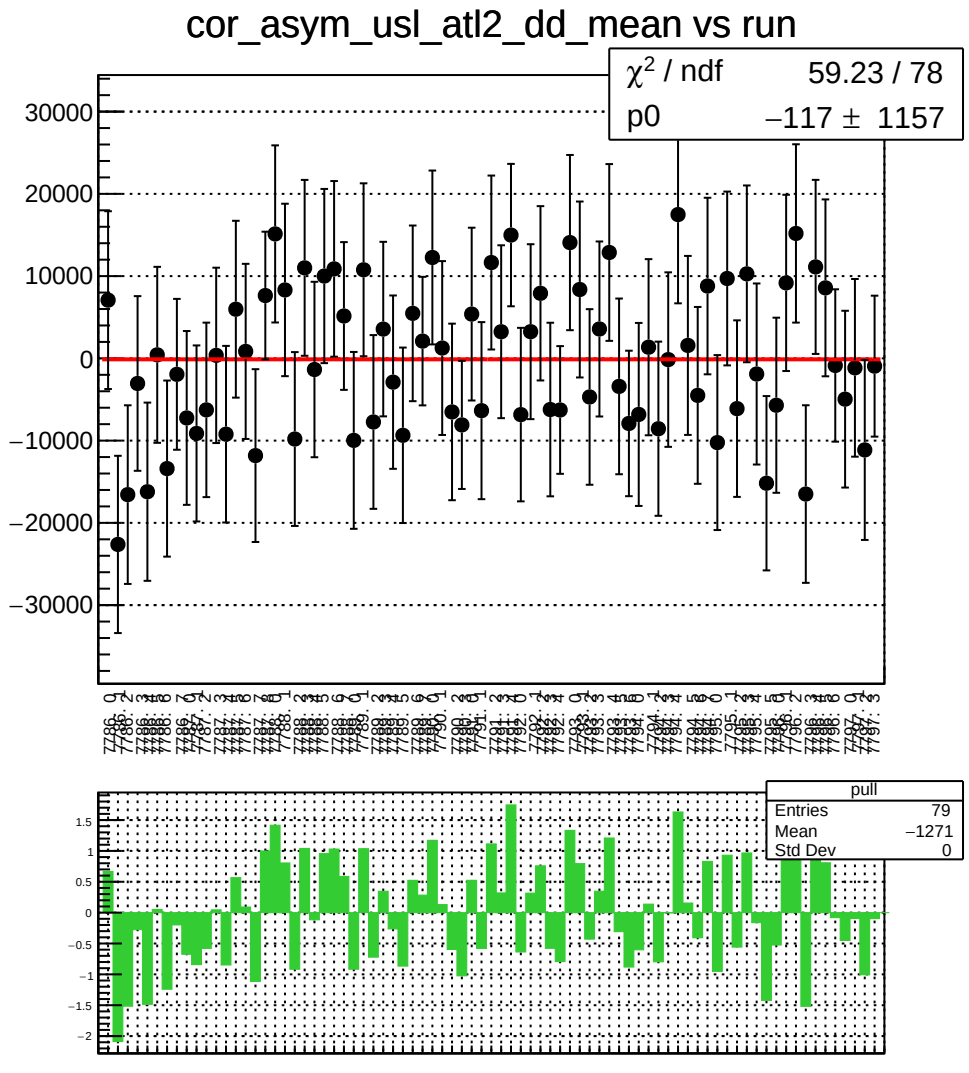

pull1D
Entries 79
Mean −0.00206
Std Dev 0.8659
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

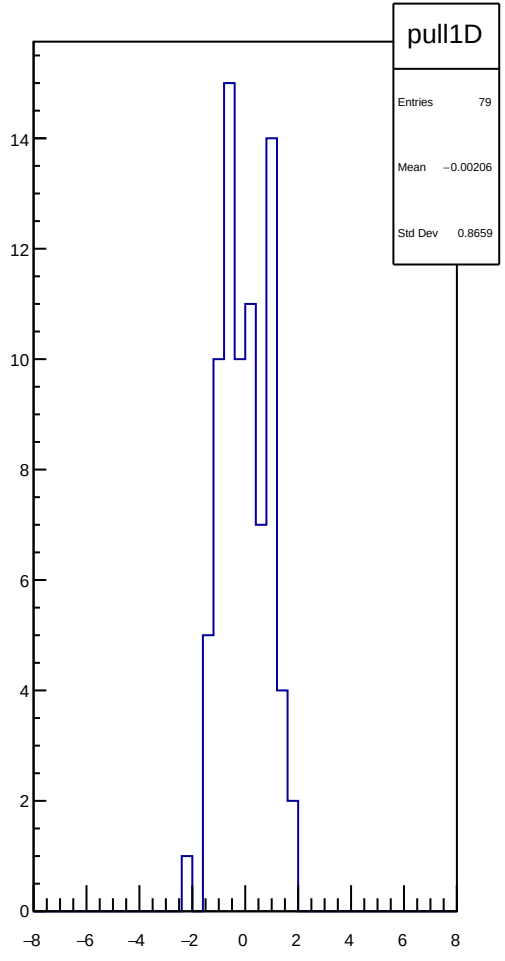

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 169 / 78
p0 1014 ± 0.8184
1070
1060
1050
1040
1030
1020
1010
1000
990
980

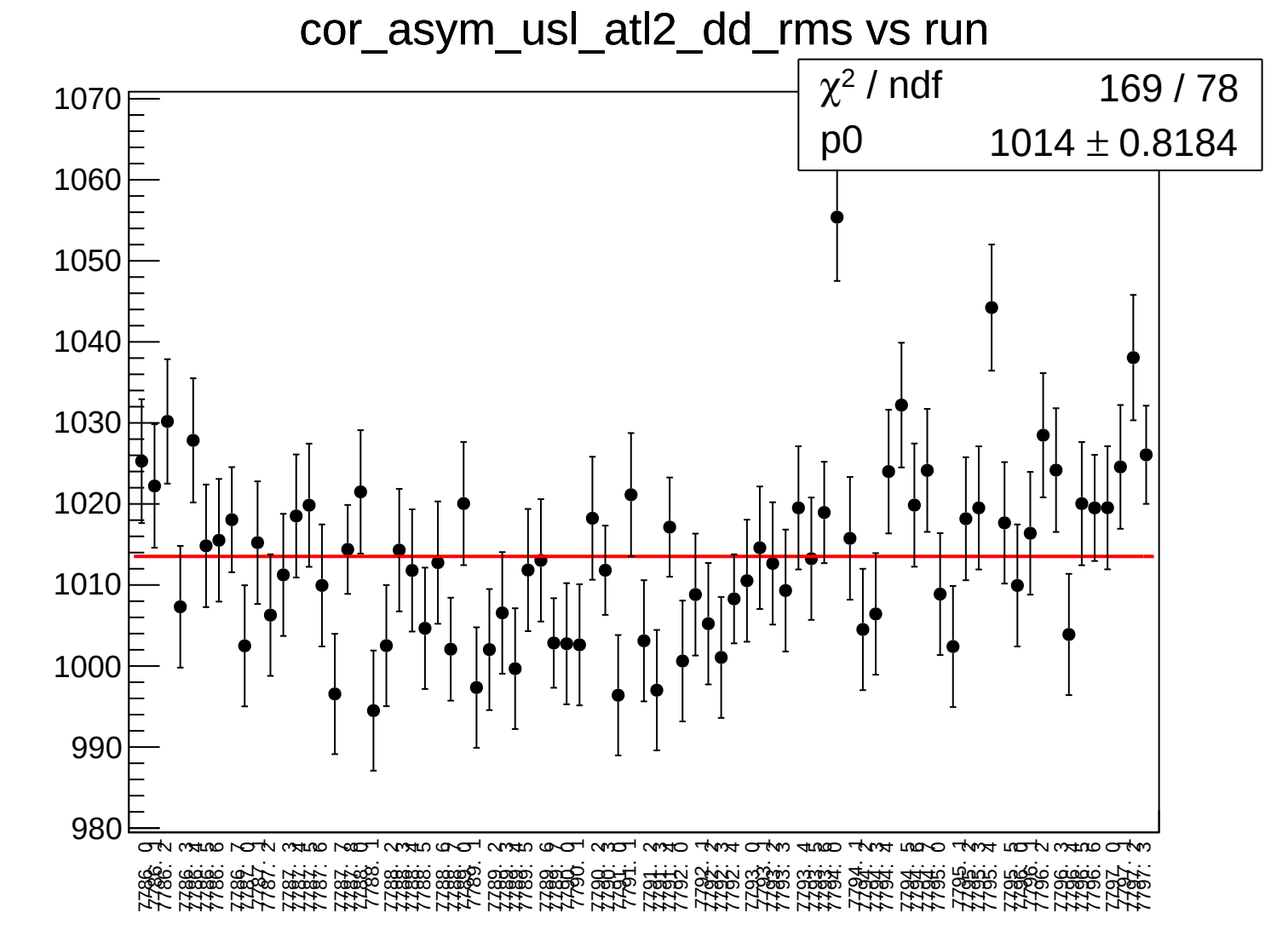

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 77.99 / 78
p0 140.3 ± 4290
100
50
0
−50
−100
pull
Entries 79
Mean −336.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

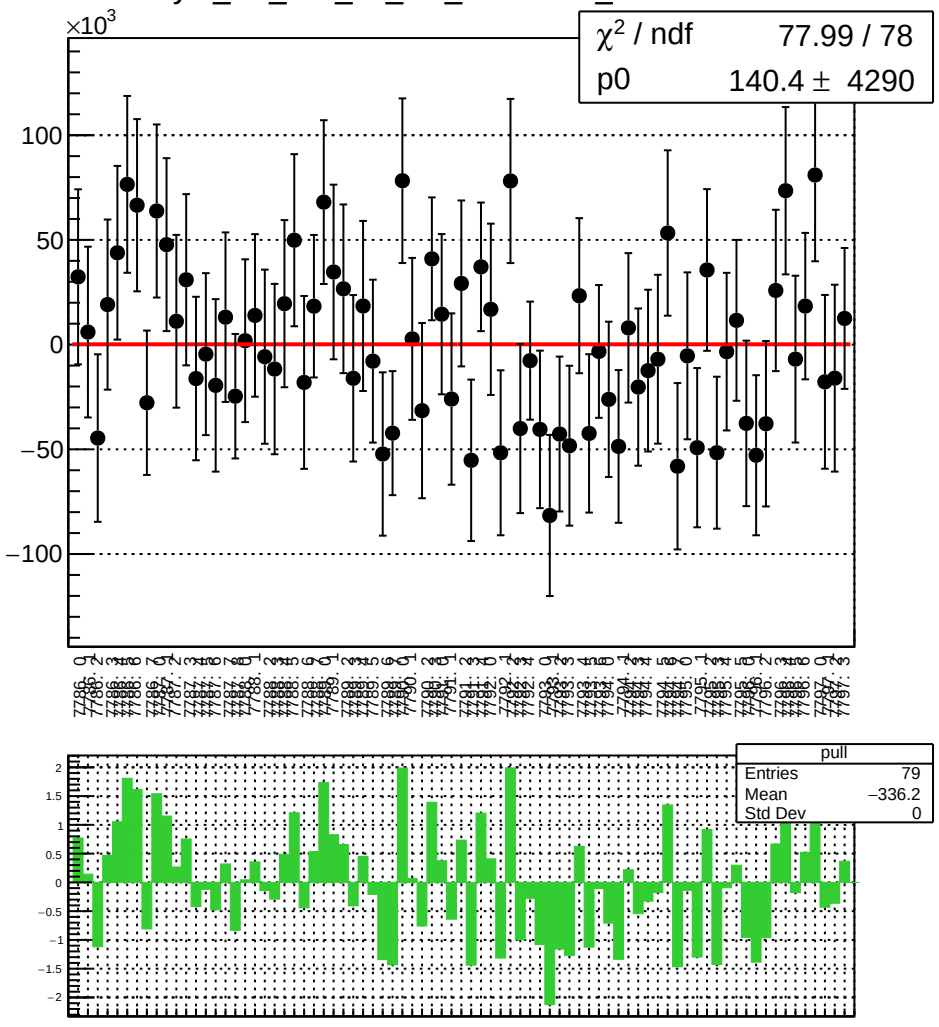

pull1D
Entries 79
Mean 0.01284
Std Dev 0.9935
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

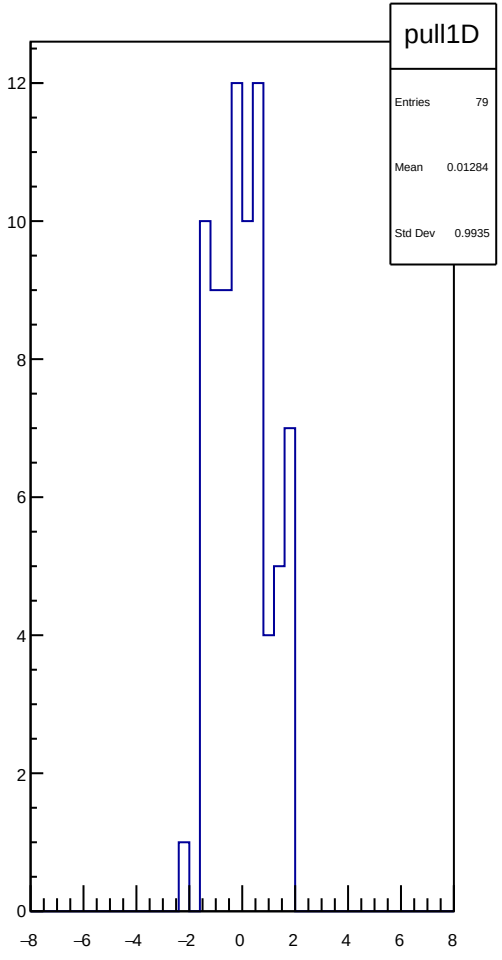

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 2394 / 78
p0 3754 ± 3.033
4200
4000
3800
3600
3400

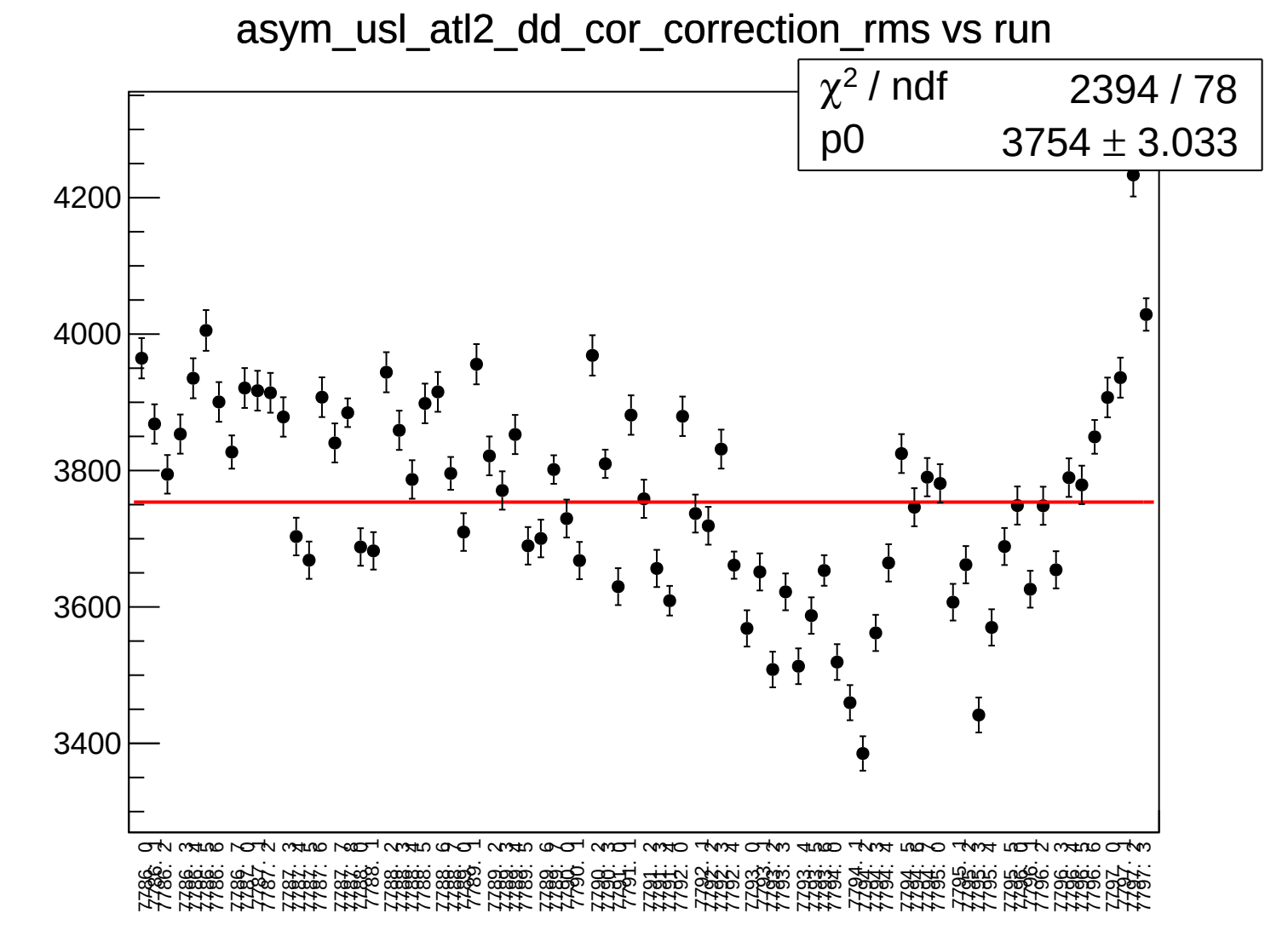

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 59.23 / 78
p0 −117 ± 1157
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −1271
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

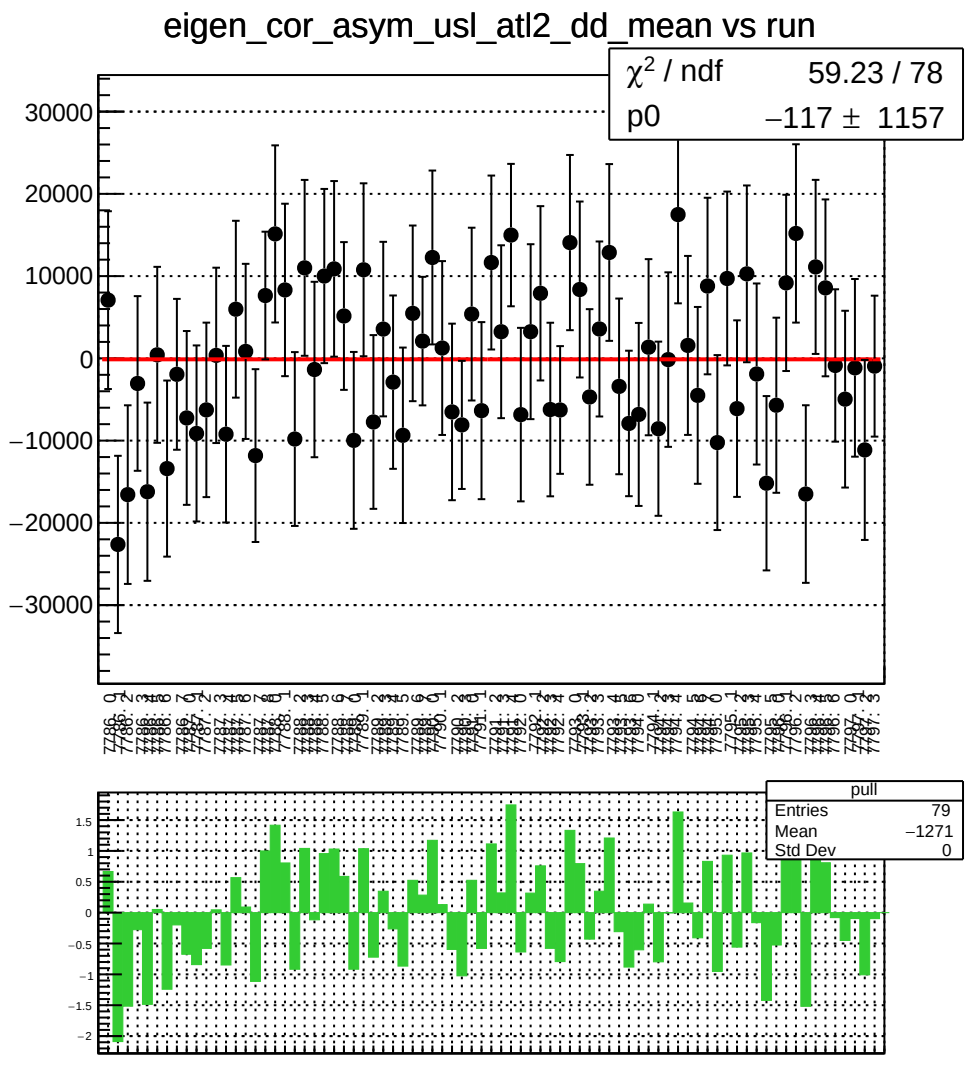

pull1D
Entries 79
Mean −0.00206
Std Dev 0.8659
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

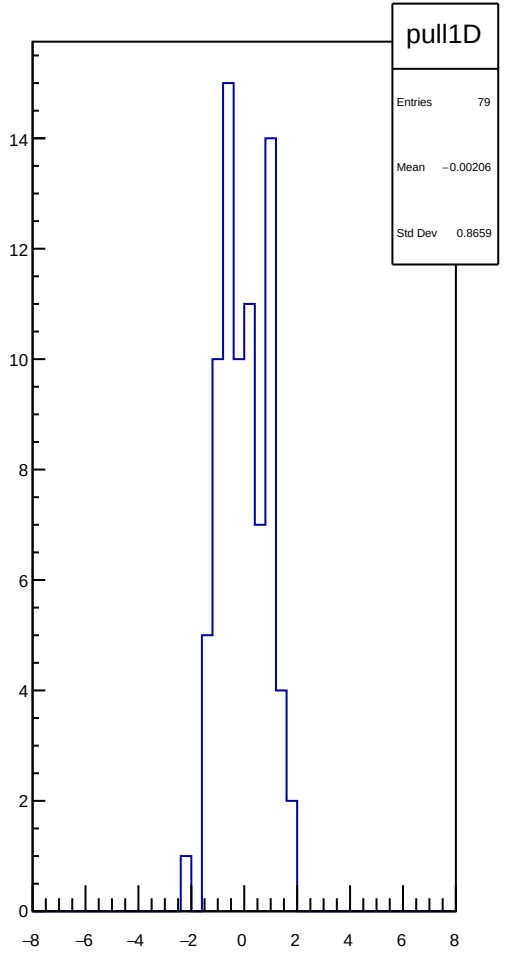

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 169 / 78
p0 1014 ± 0.8184
1070
1060
1050
1040
1030
1020
1010
1000
990
980

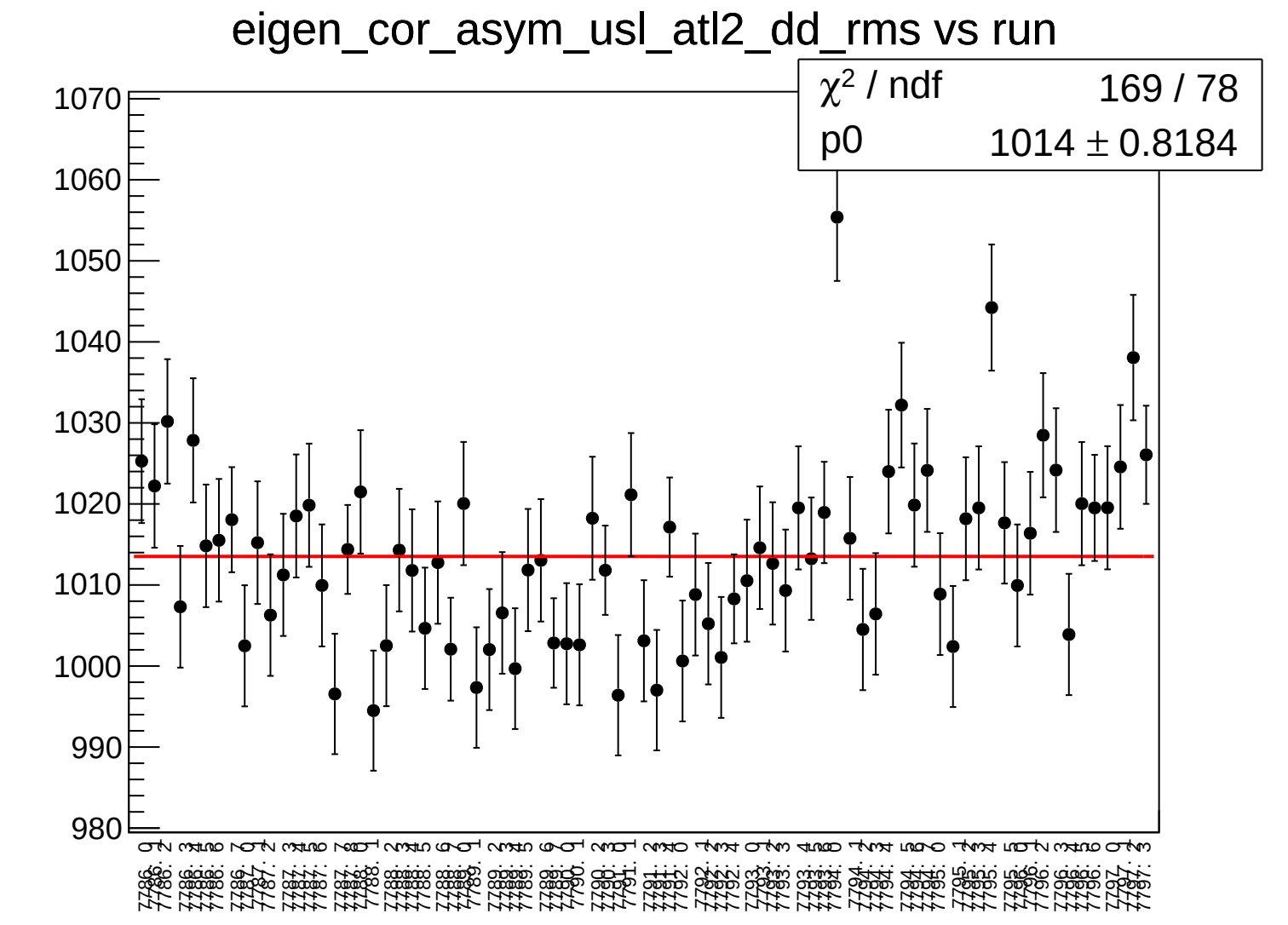

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 77.99 / 78
p0 140.4 ± 4290
100
50
0
−50
−100
pull
Entries 79
Mean −336.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

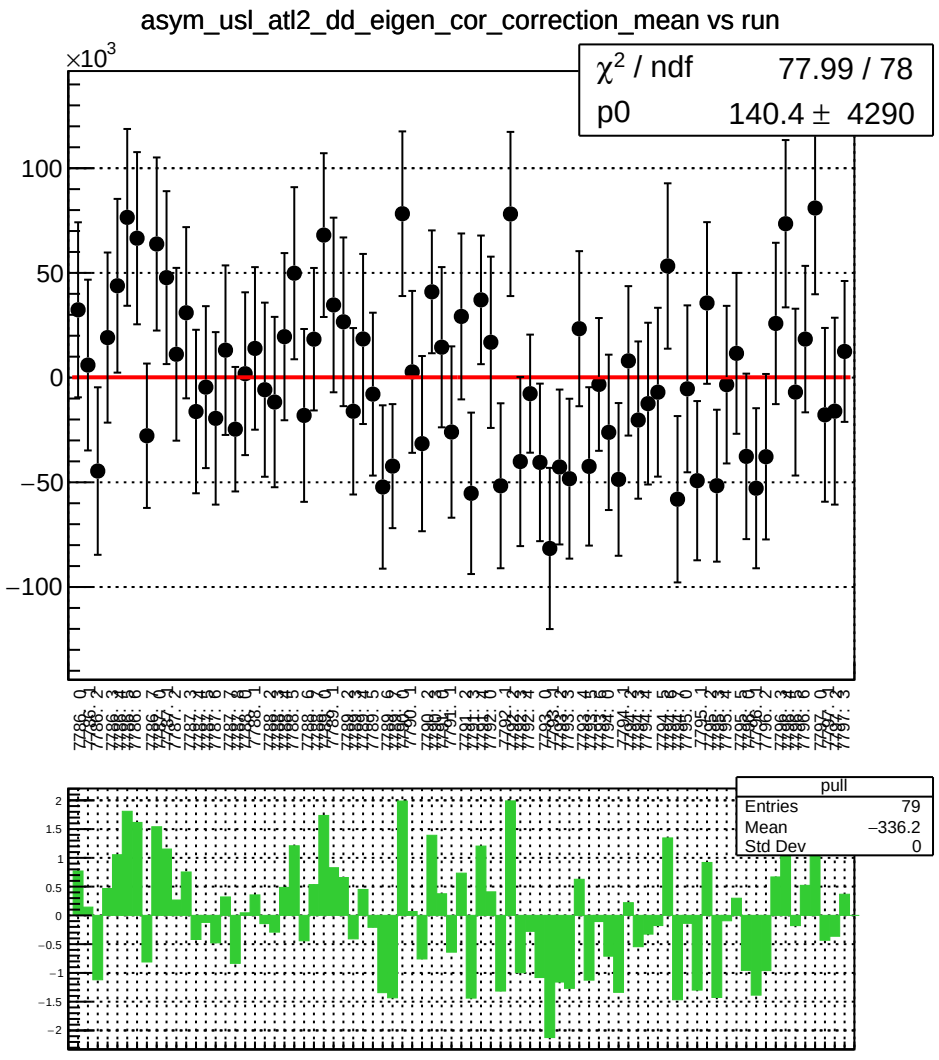

pull1D
Entries 79
Mean 0.01284
Std Dev 0.9935
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

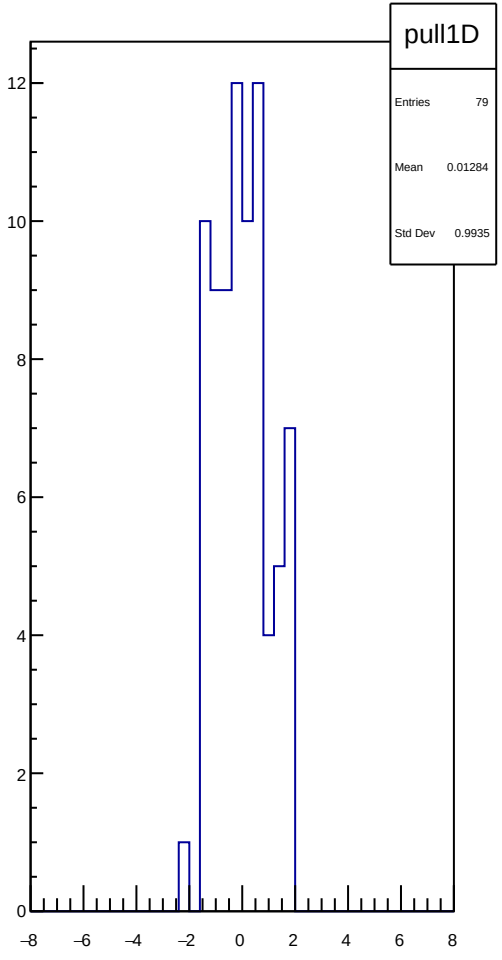

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 2394 / 78
p0 3754 ± 3.033
4200
4000
3800
3600
3400

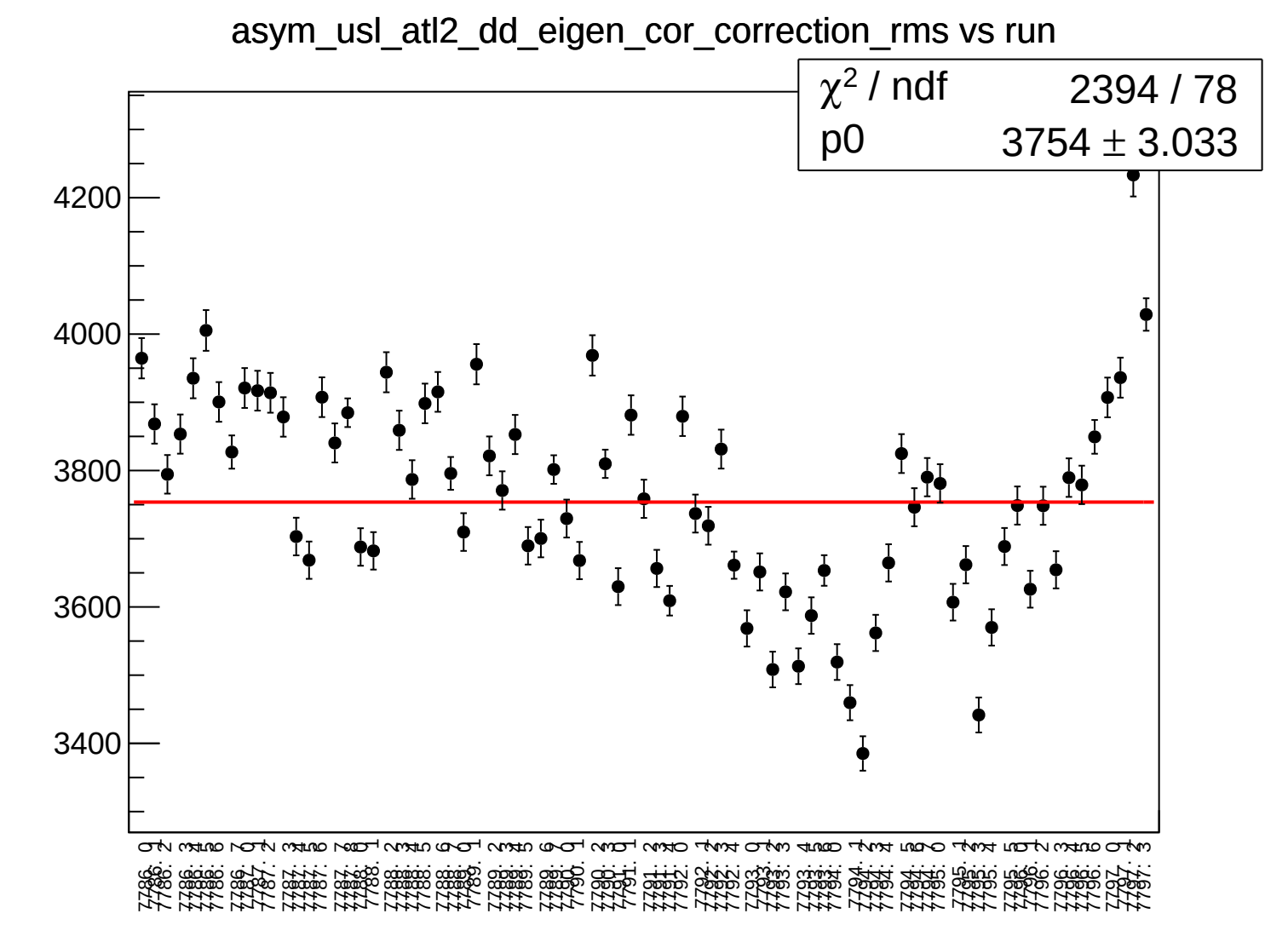

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 59.23 / 78
p0 −117 ± 1157
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −1271
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

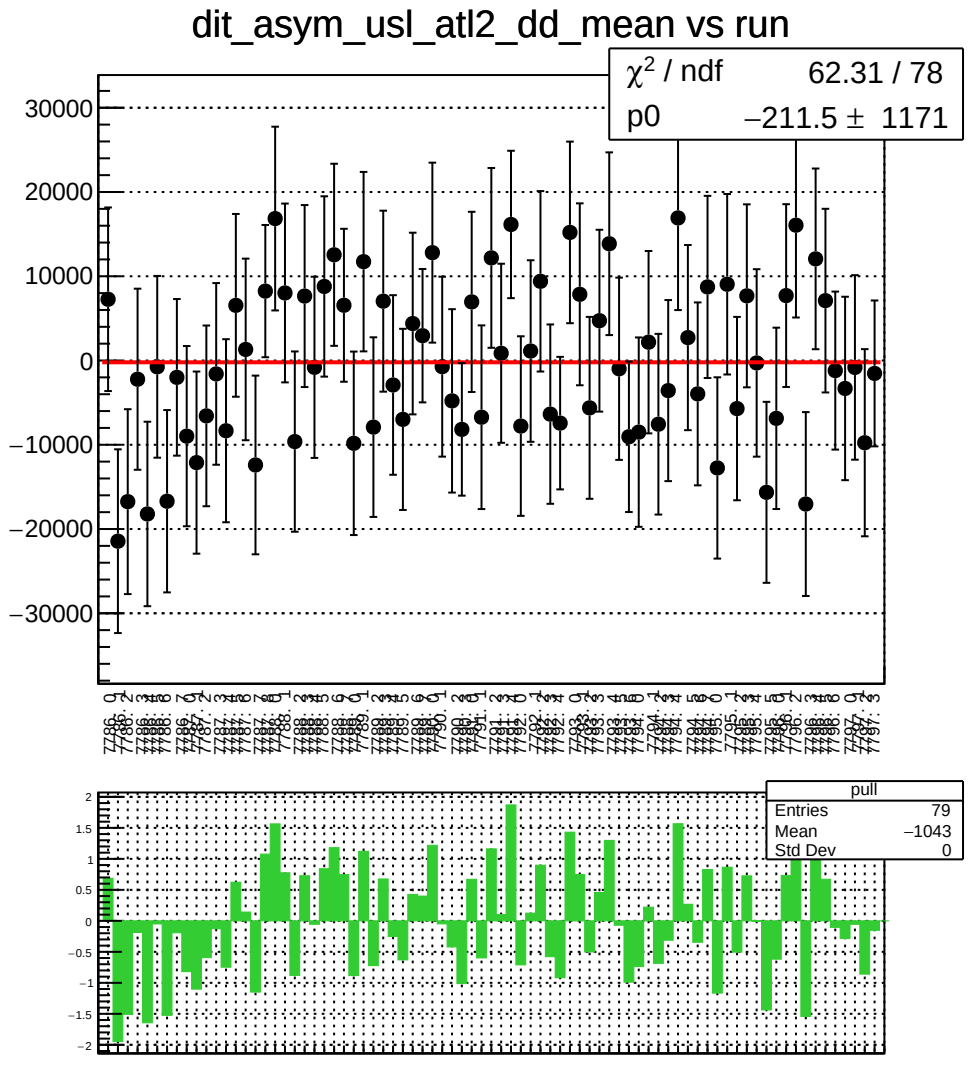

pull1D
Entries 79
Mean −0.00206
Std Dev 0.8659
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

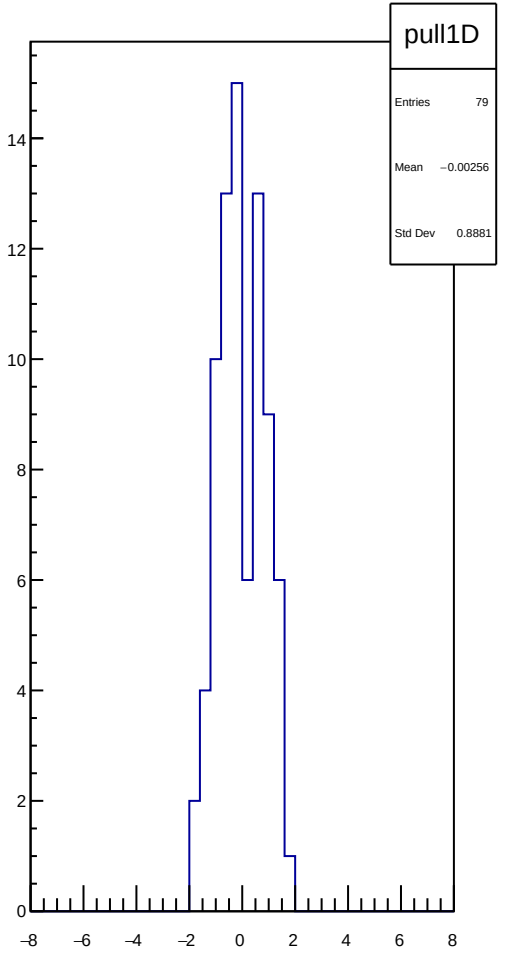

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 169 / 78
p0 1014 ± 0.8184
1070
1060
1050
1040
1030
1020
1010
1000
990
980

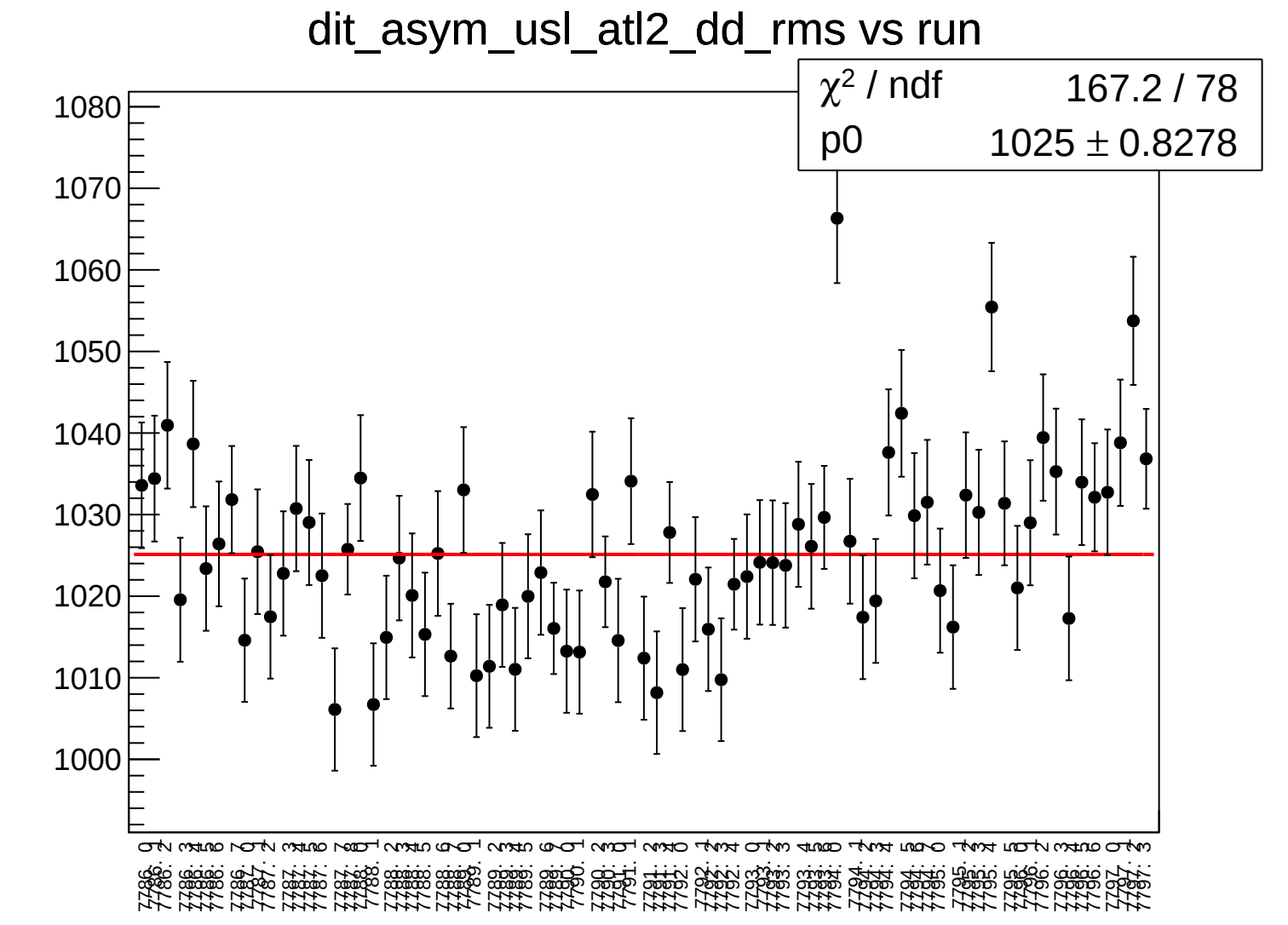

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 77.99 / 78
p0 140.4 ± 4290
100
50
0
−50
−100
pull
Entries 79
Mean −336.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

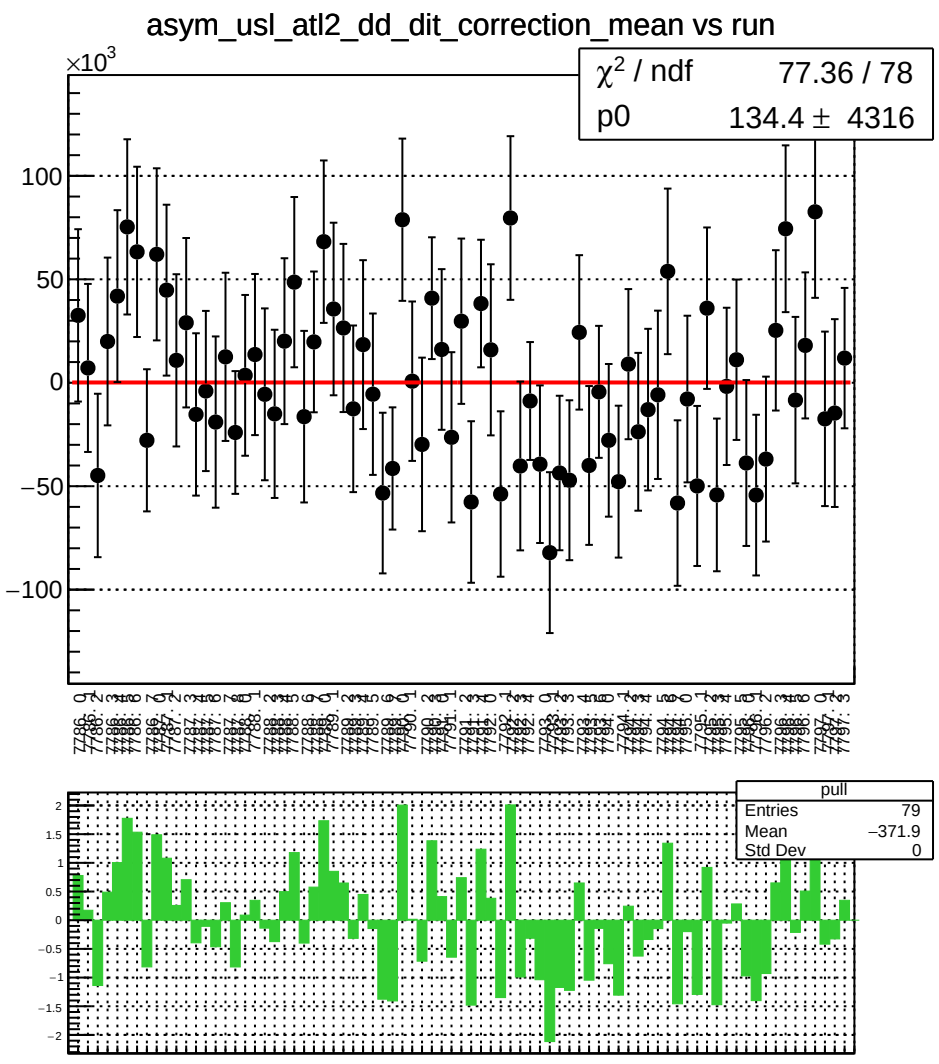

pull1D
Entries 79
Mean 0.01284
Std Dev 0.9935
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

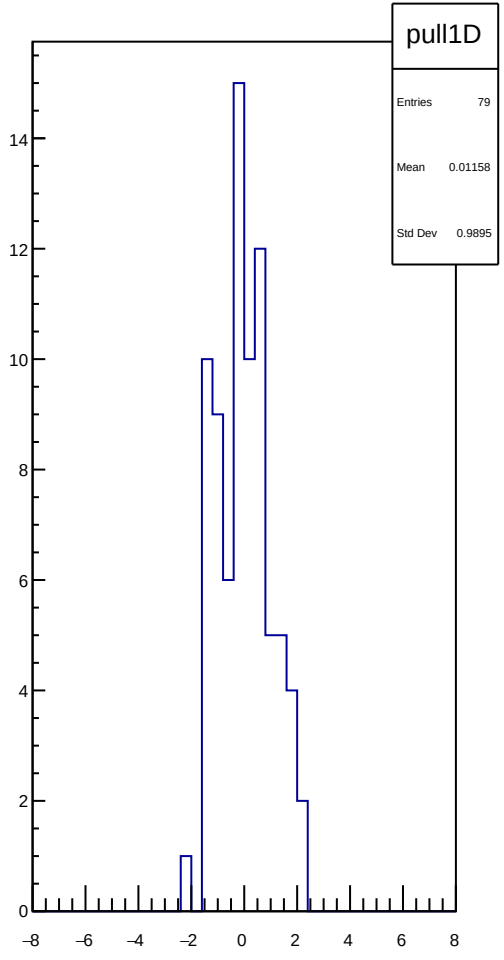

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2394 / 78
p0 3754 ± 3.033
4200
4000
3800
3600
3400

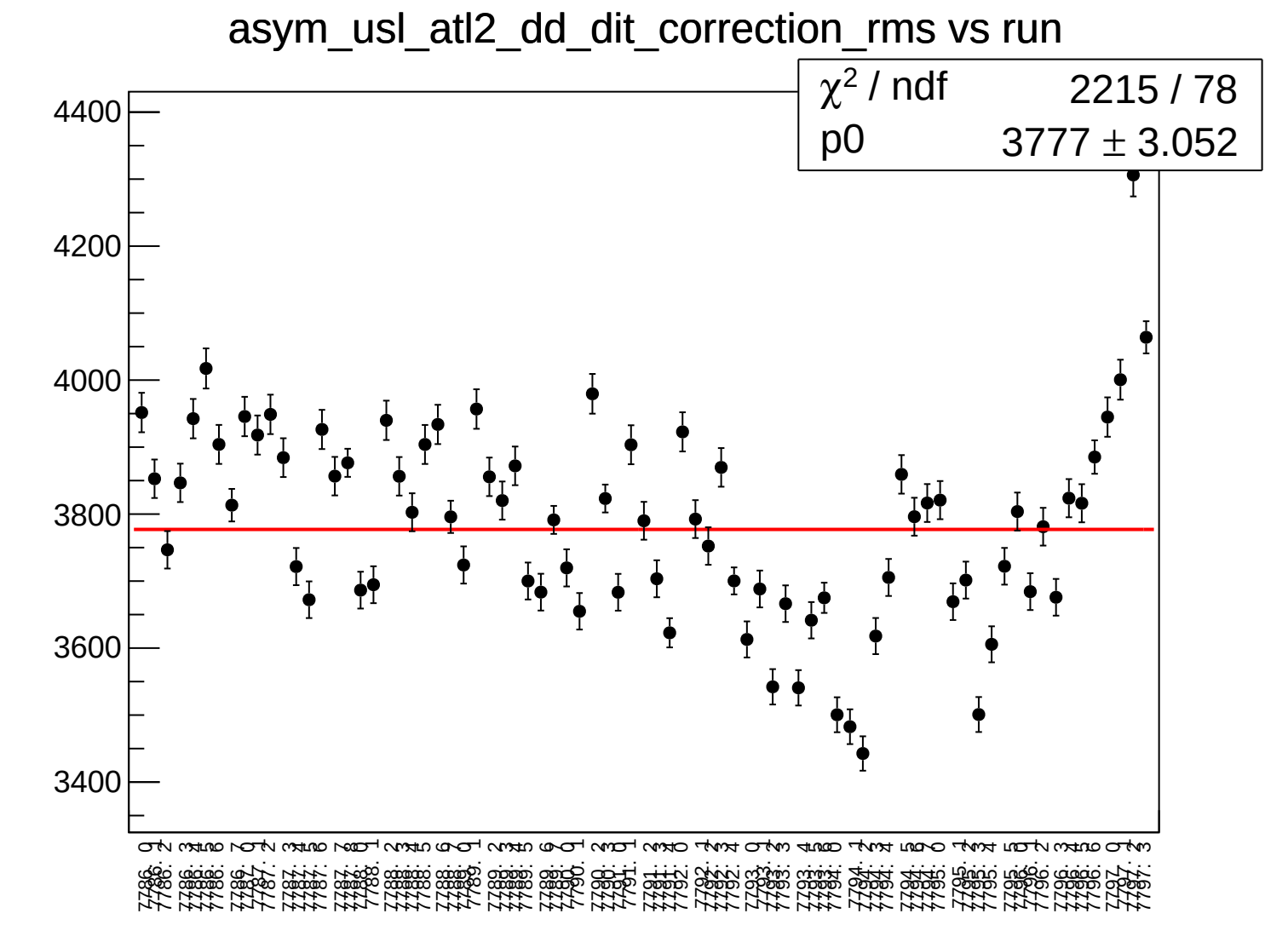

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 62.31 / 78
p0 −211.5 ± 1171
pull
Entries 79
Mean −1043
Std Dev 0

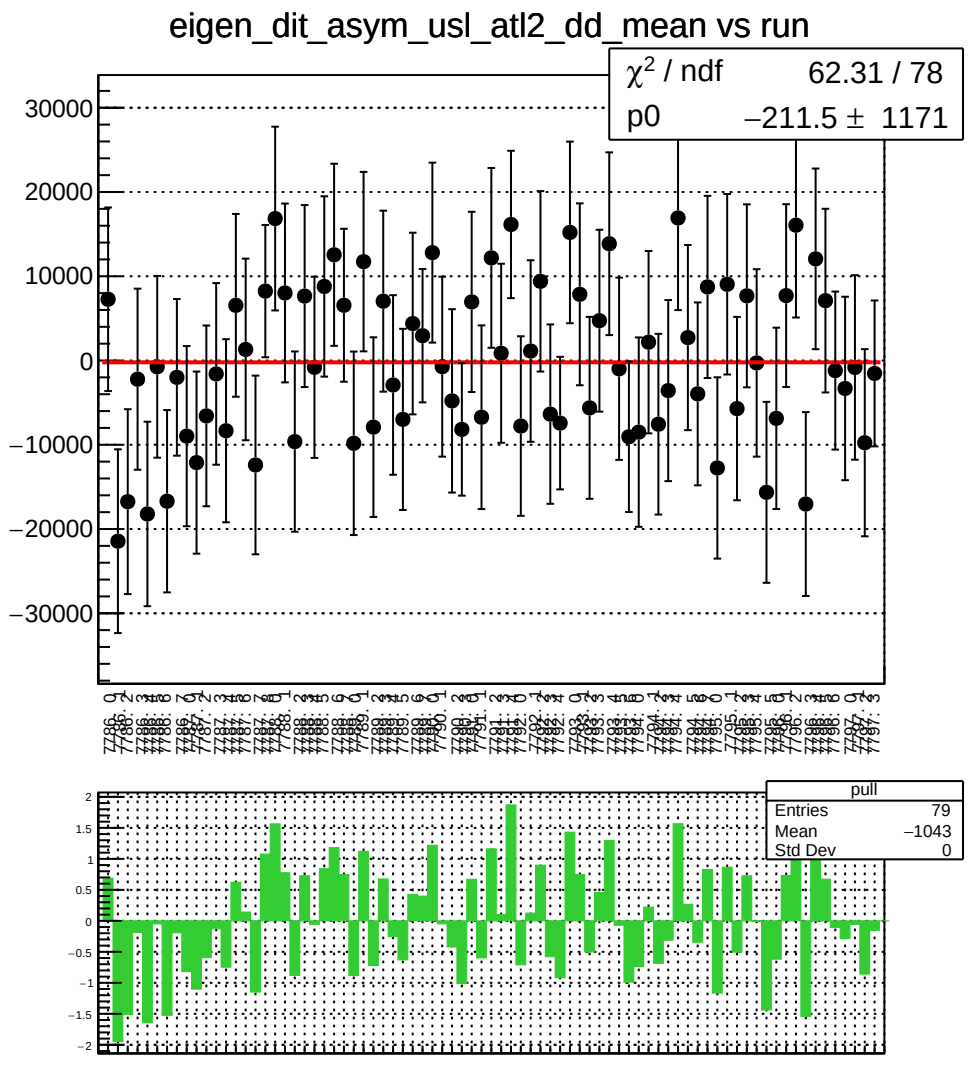

pull1D
Entries 79
Mean −0.00256
Std Dev 0.8881

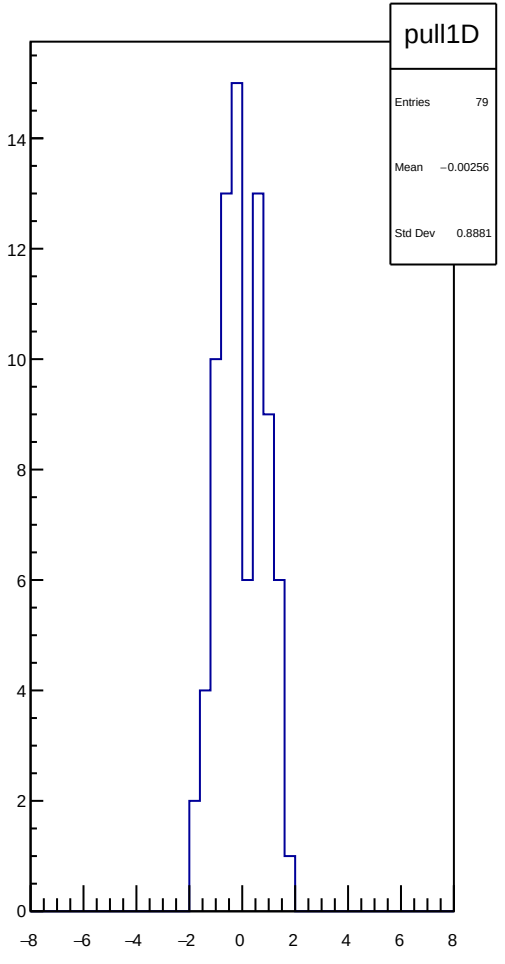

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 167.2 / 78
p0 1025 ± 0.8278
1080
1070
1060
1050
1040
1030
1020
1010
1000

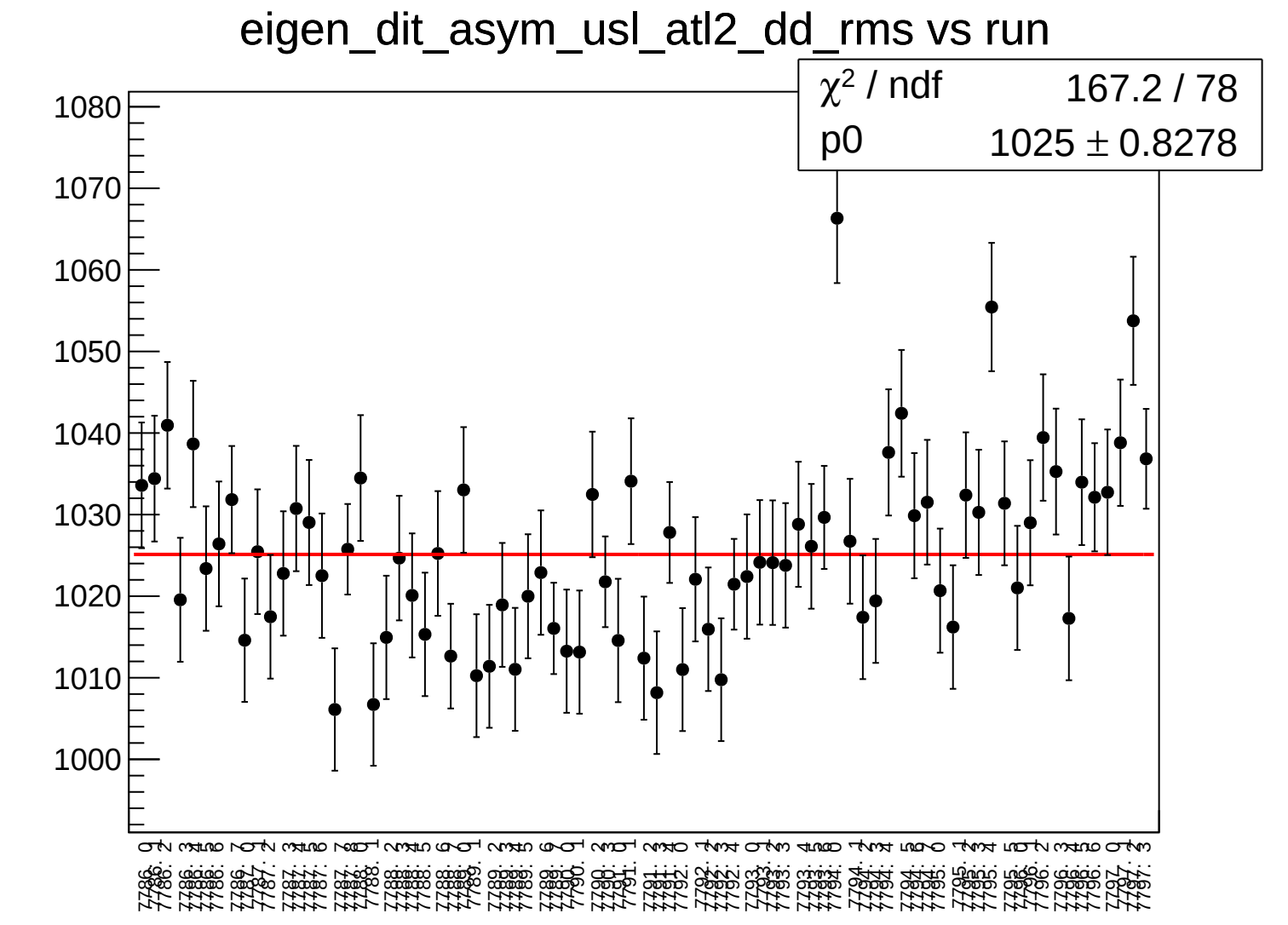

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.36 / 78
p0 134.4 ± 4316
100
50
0
−50
−100
pull
Entries 79
Mean −371.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

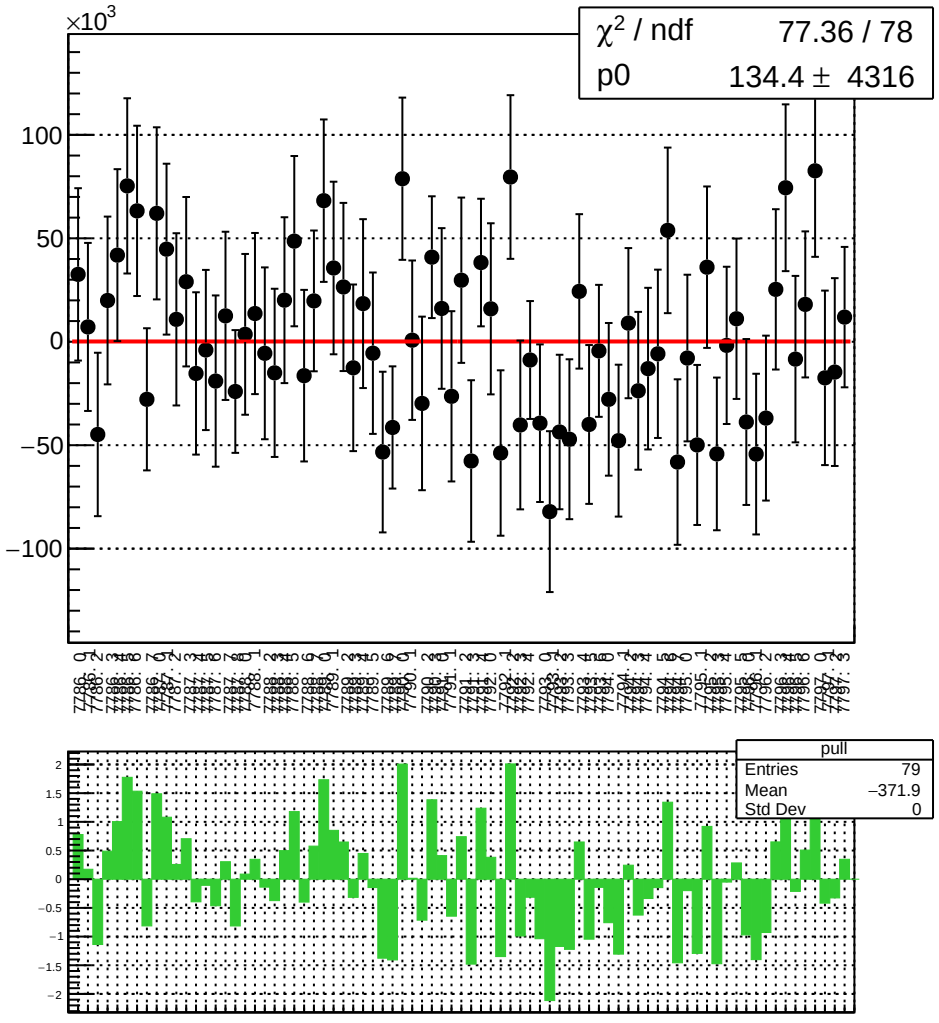

pull1D
Entries 79
Mean 0.01158
Std Dev 0.9895
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

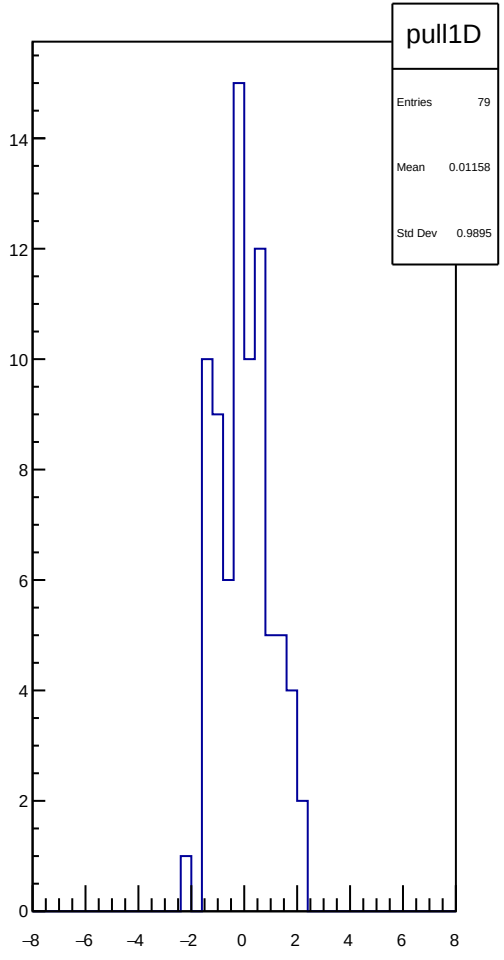

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 2215 / 78
p0 3777 ± 3.052
4400
4200
4000
3800
3600
3400

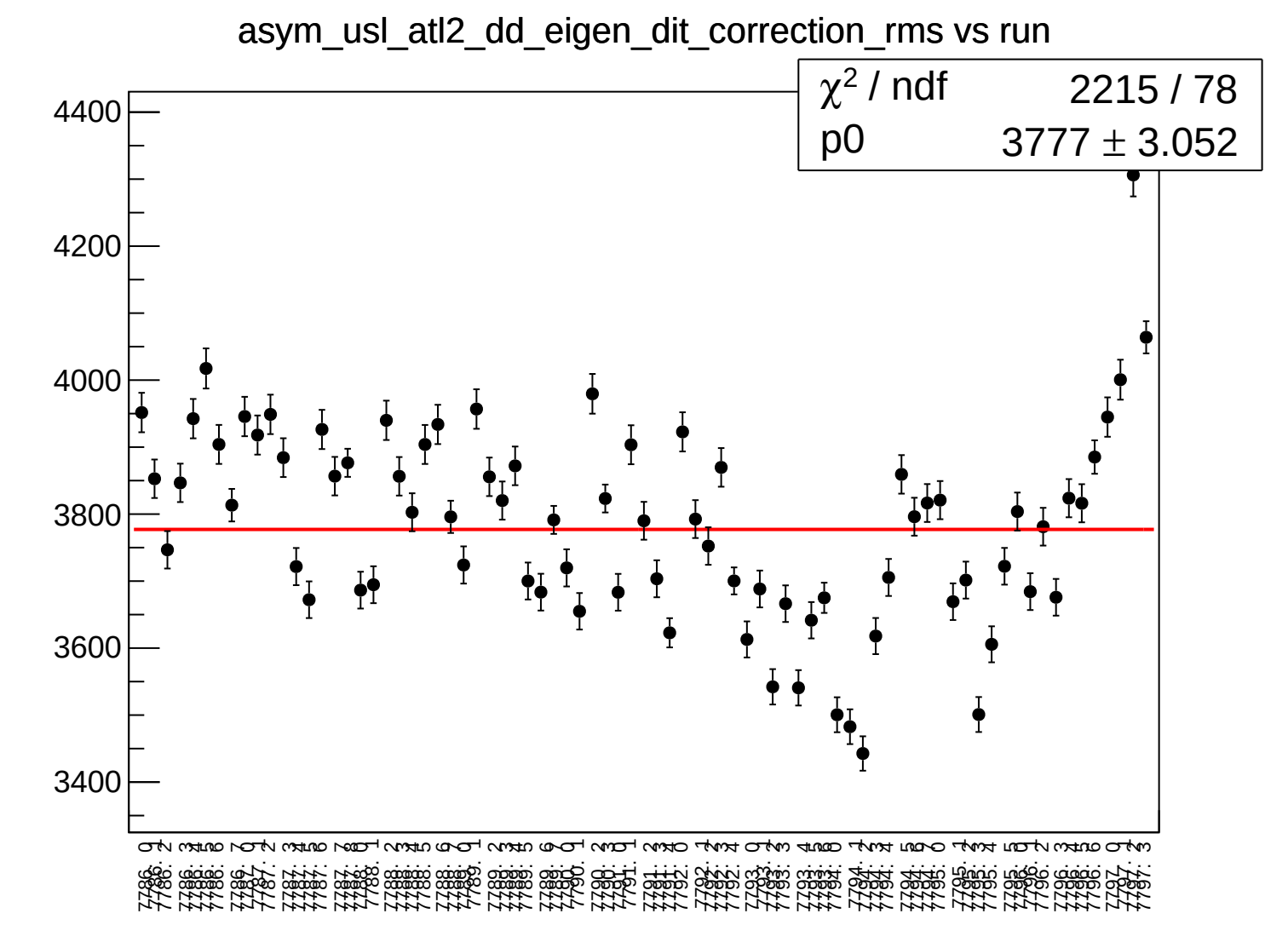

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 62.31 / 78
p0 −211.5 ± 1171
pull
Entries 79
Mean −1043
Std Dev 0

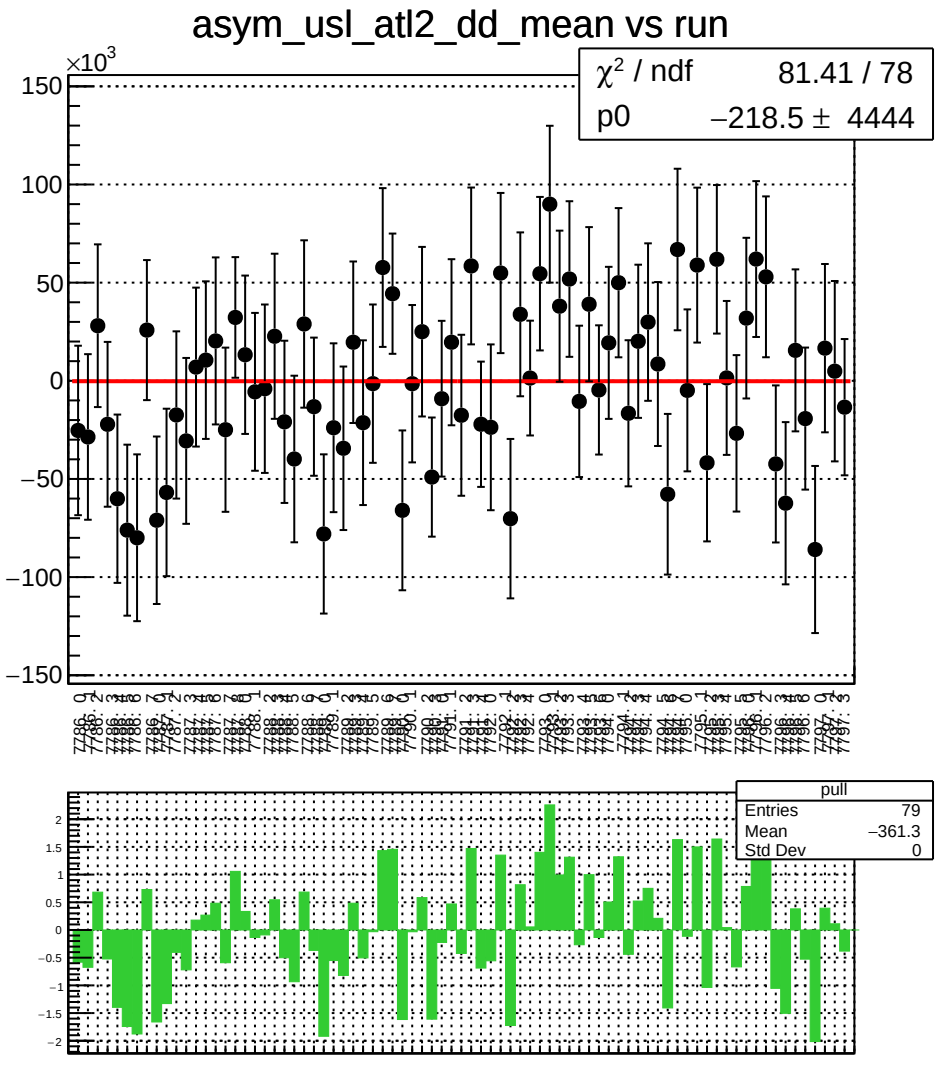

pull1D
Entries 79
Mean −0.00256
Std Dev 0.8881

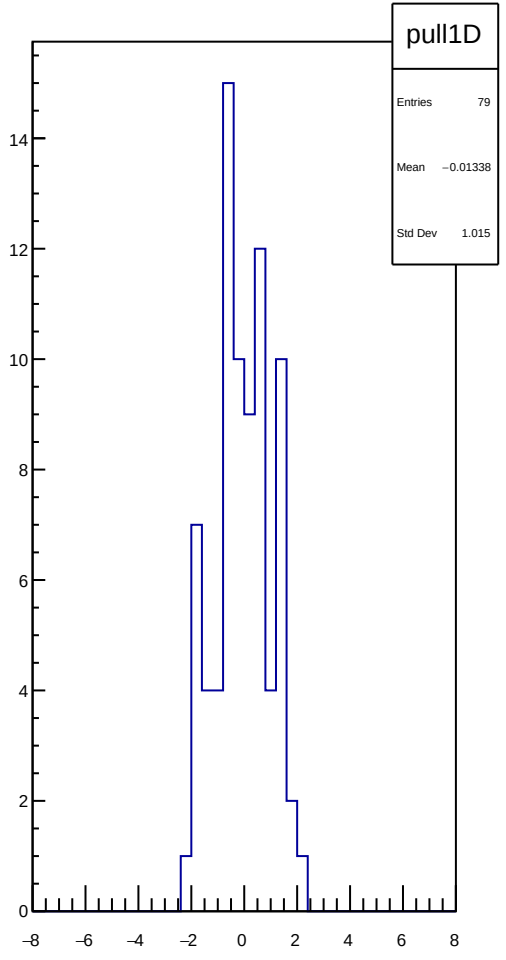

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 167.2 / 78
p0 1025 ± 0.8278
1080
1070
1060
1050
1040
1030
1020
1010
1000

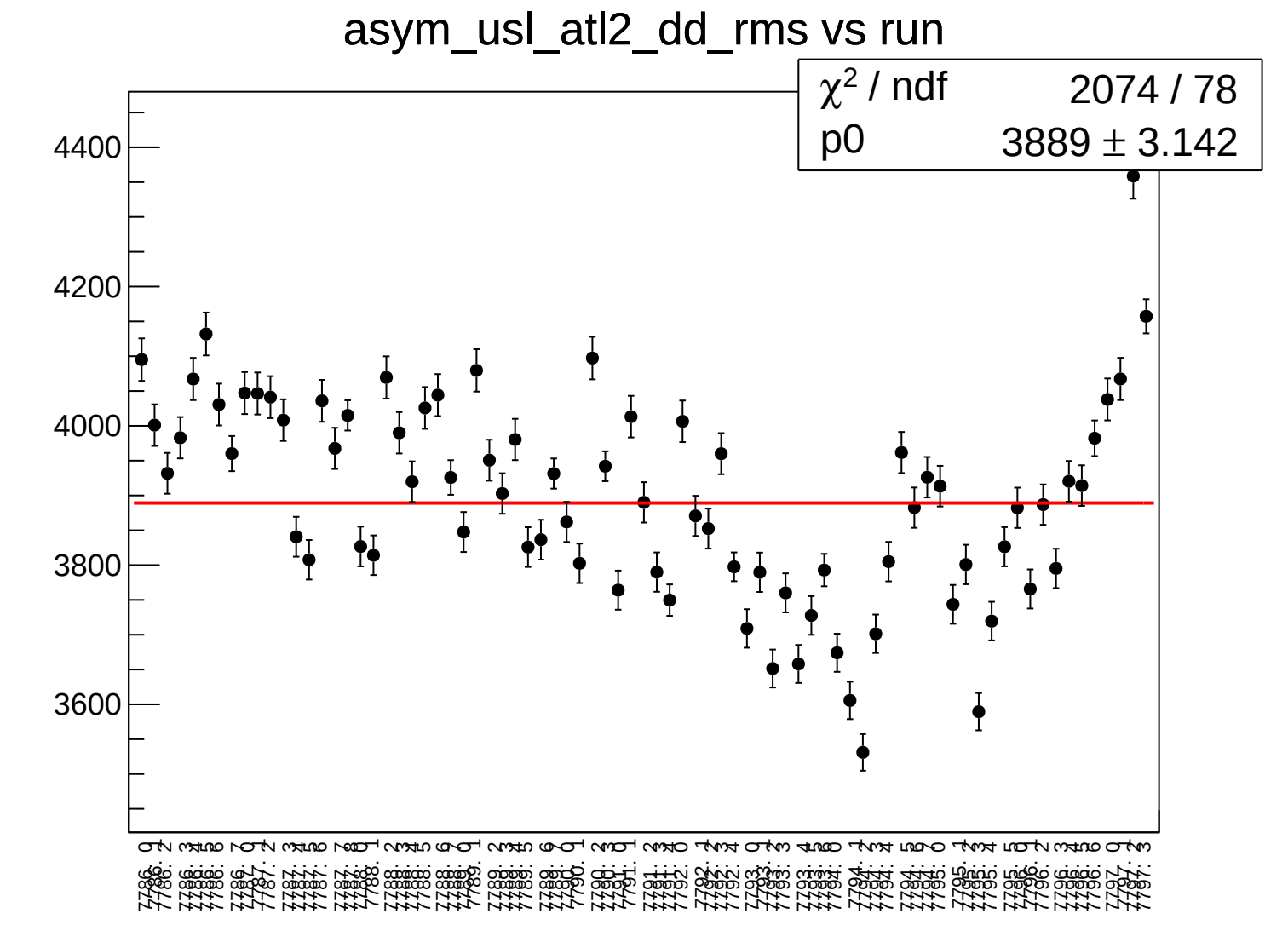

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.36 / 78
p0 134.4 ± 4316
100
50
0
−50
−100
pull
Entries 79
Mean −371.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

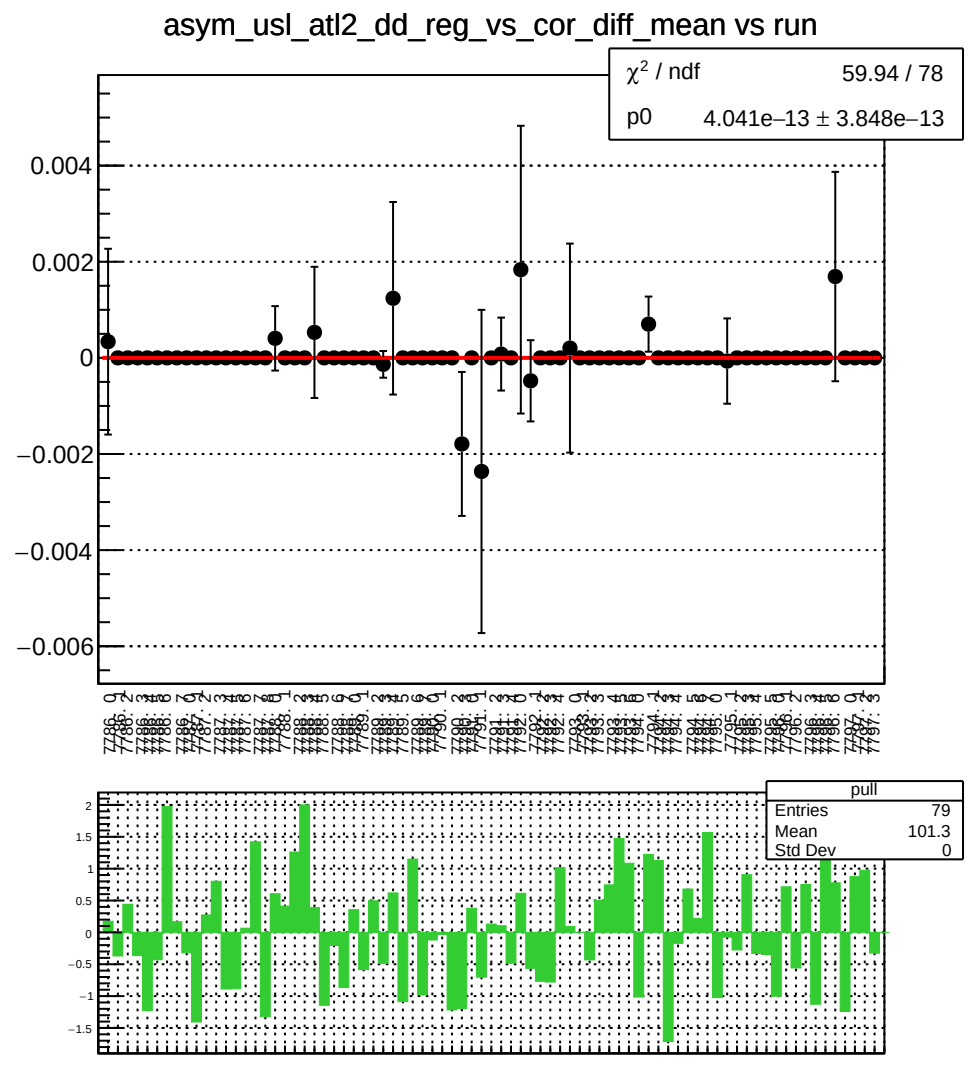

pull1D
Entries 79
Mean 0.01158
Std Dev 0.9895
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

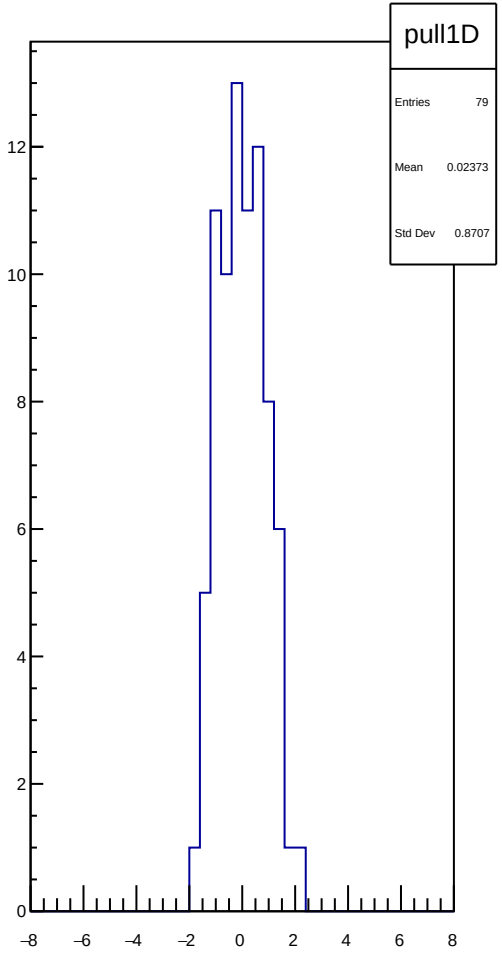

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2215 / 78
p0 3777 ± 3.052
4400
4200
4000
3800
3600
3400

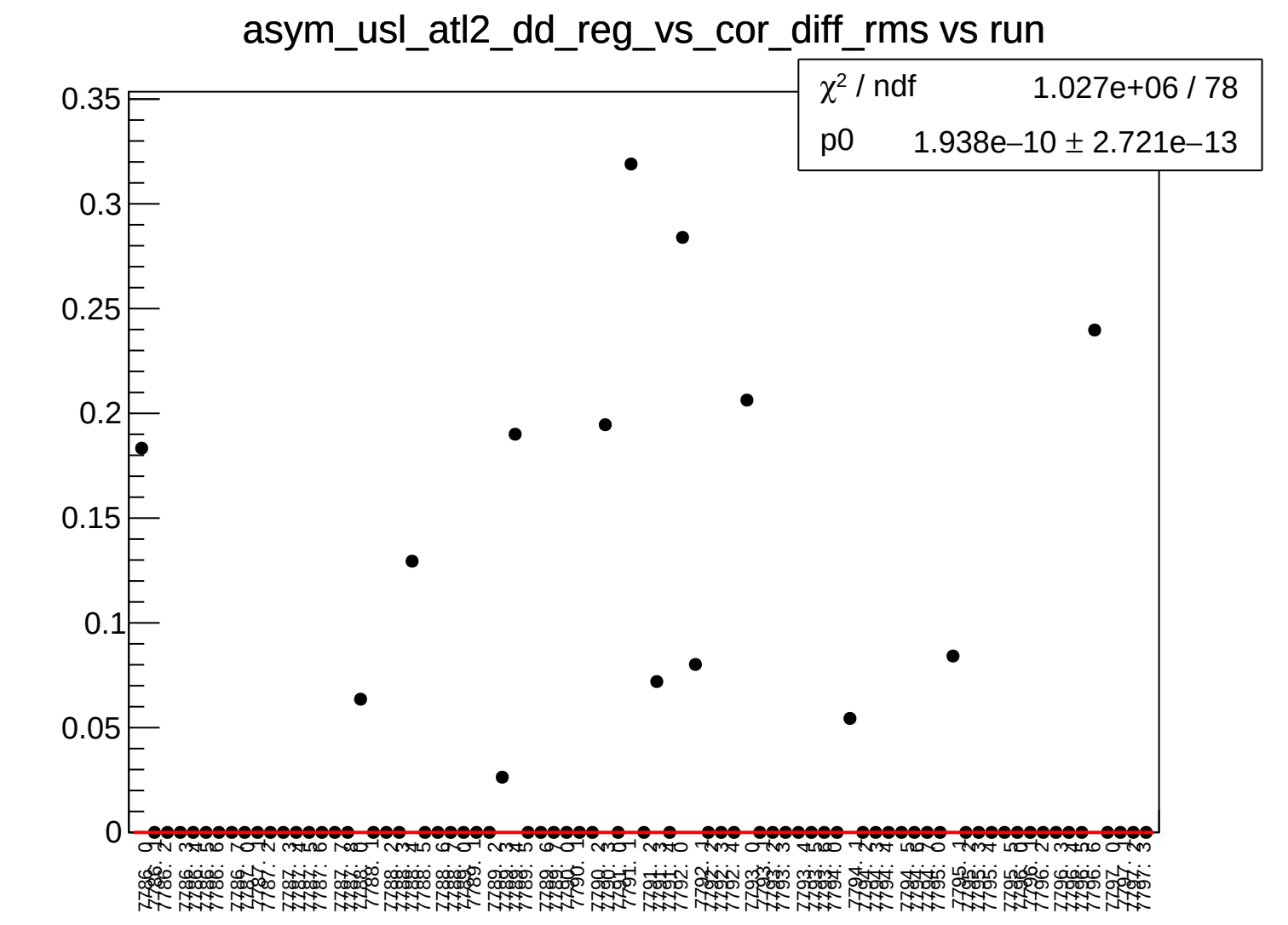

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 81.41 / 78
p0 −218.5 ± 4444
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −361.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

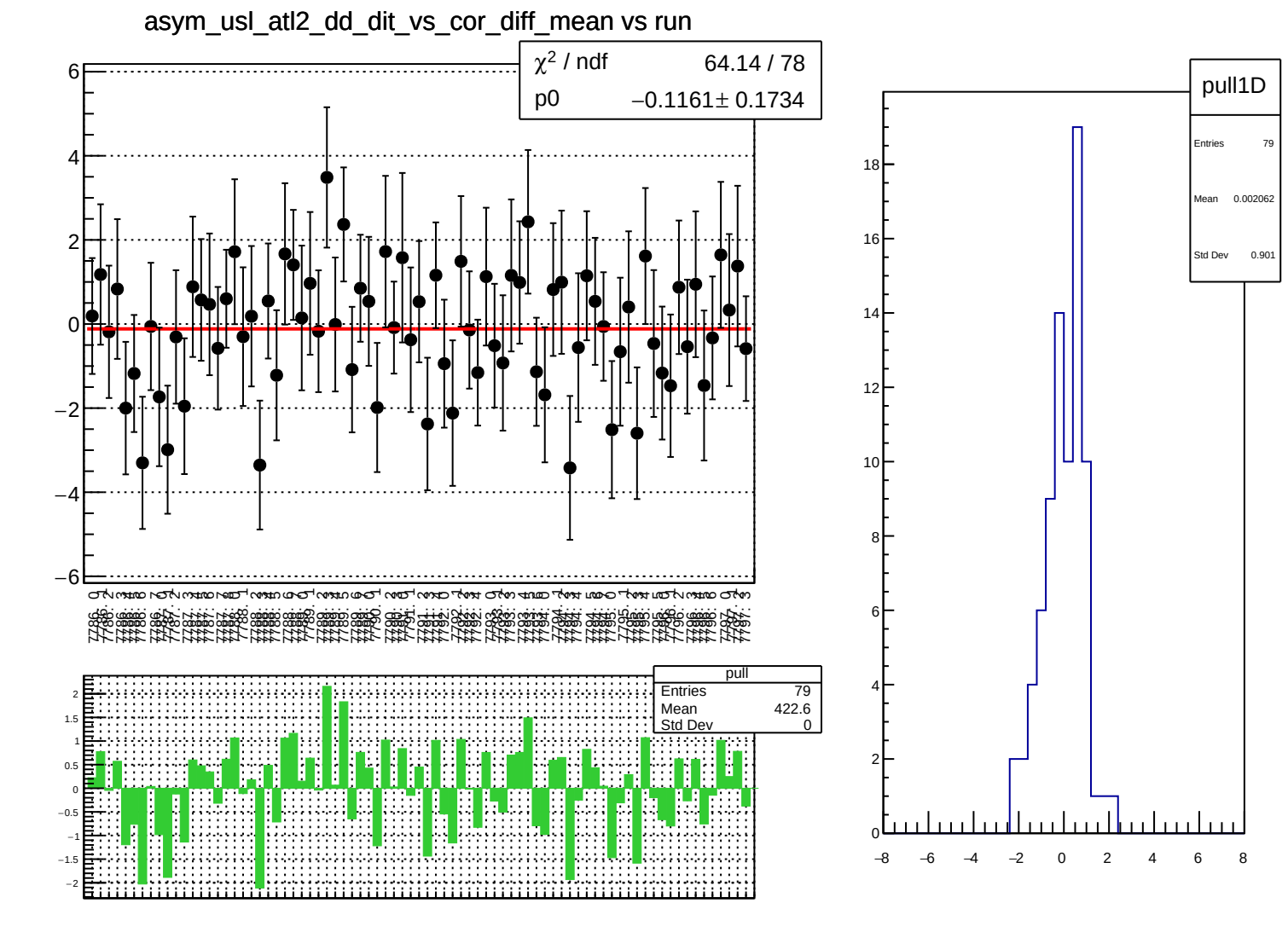

pull1D
Entries 79
Mean −0.01338
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

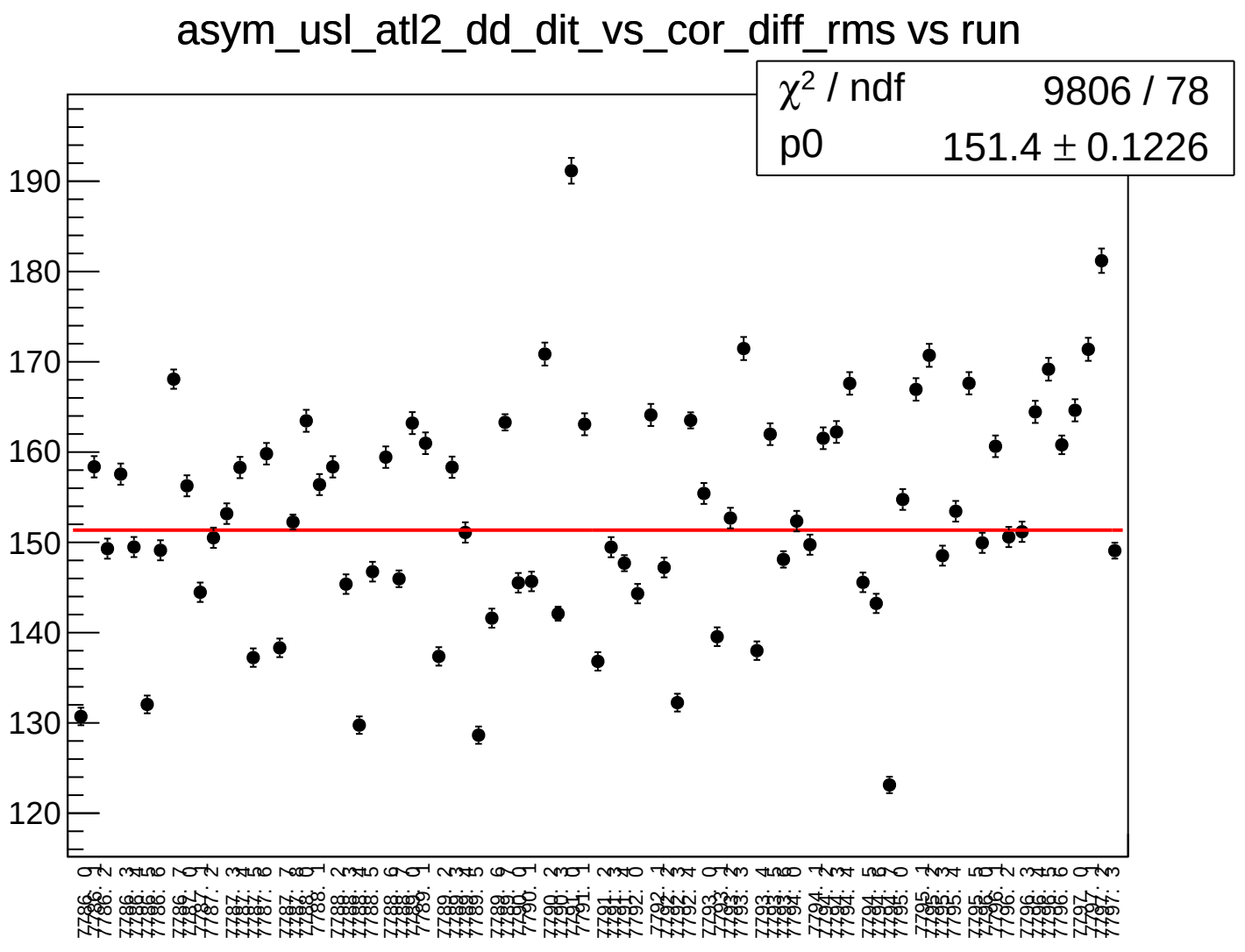

asym_usl_atl2_dd_rms vs run
χ² / ndf 2074 / 78
p0 3889 ± 3.142
4400
4200
4000
3800
3600

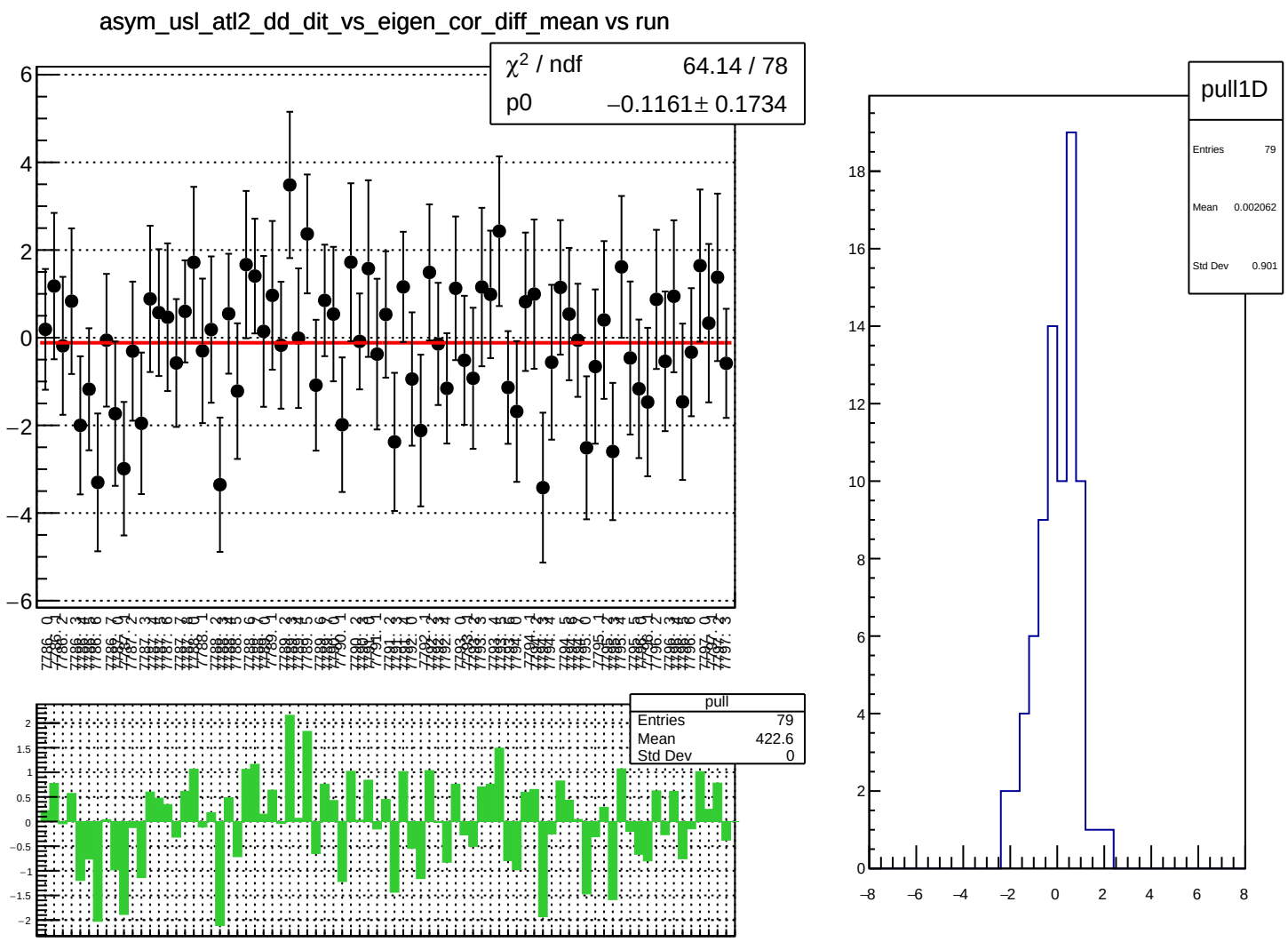

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 59.94 / 78
p0 4.041e−13 ± 3.848e−13
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 79
Mean 101.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

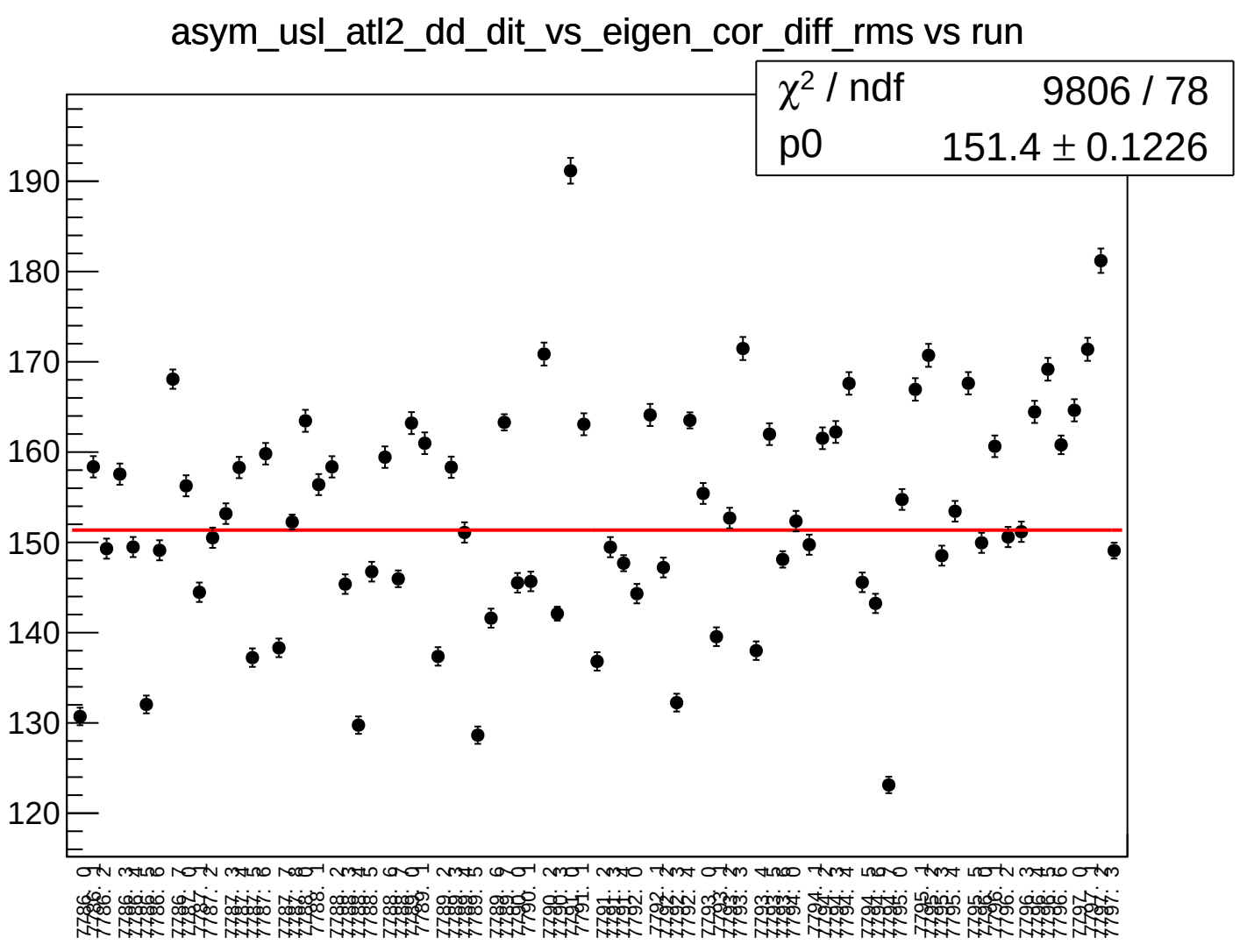

pull1D
Entries 79
Mean 0.02373
Std Dev 0.8707
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

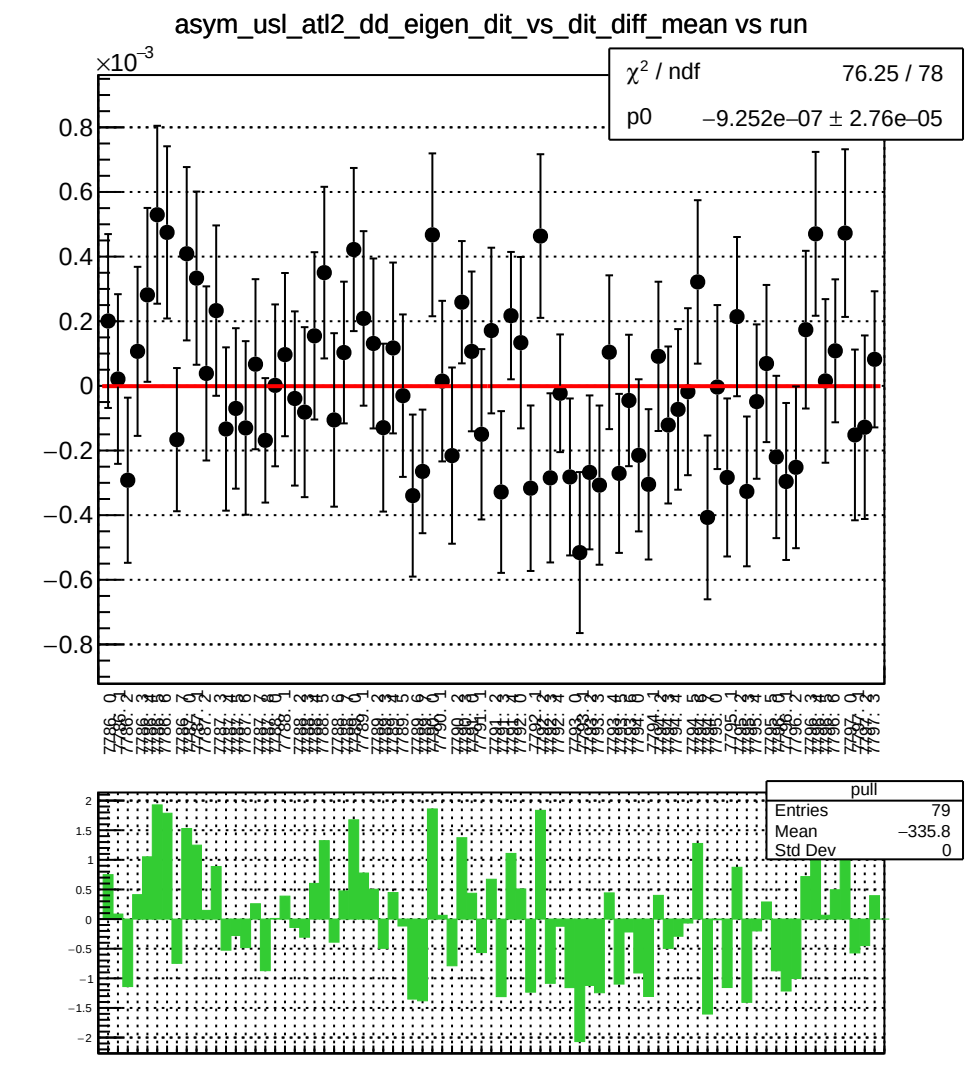

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.027e+06 / 78
p0 1.938e−10 ± 2.721e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

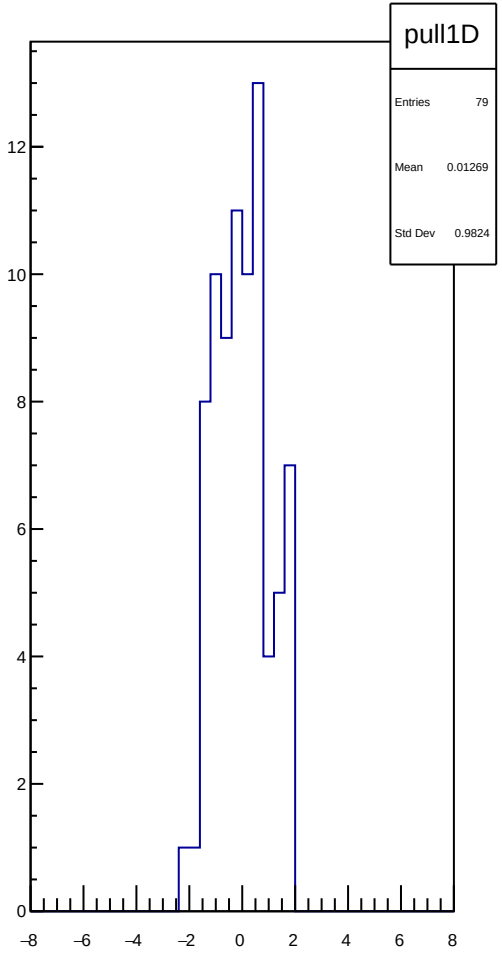

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.14 / 78
p0 −0.1161± 0.1734
pull
Entries 79
Mean 422.6
Std Dev 0
pull1D
Entries 79
Mean 0.002062
Std Dev 0.901

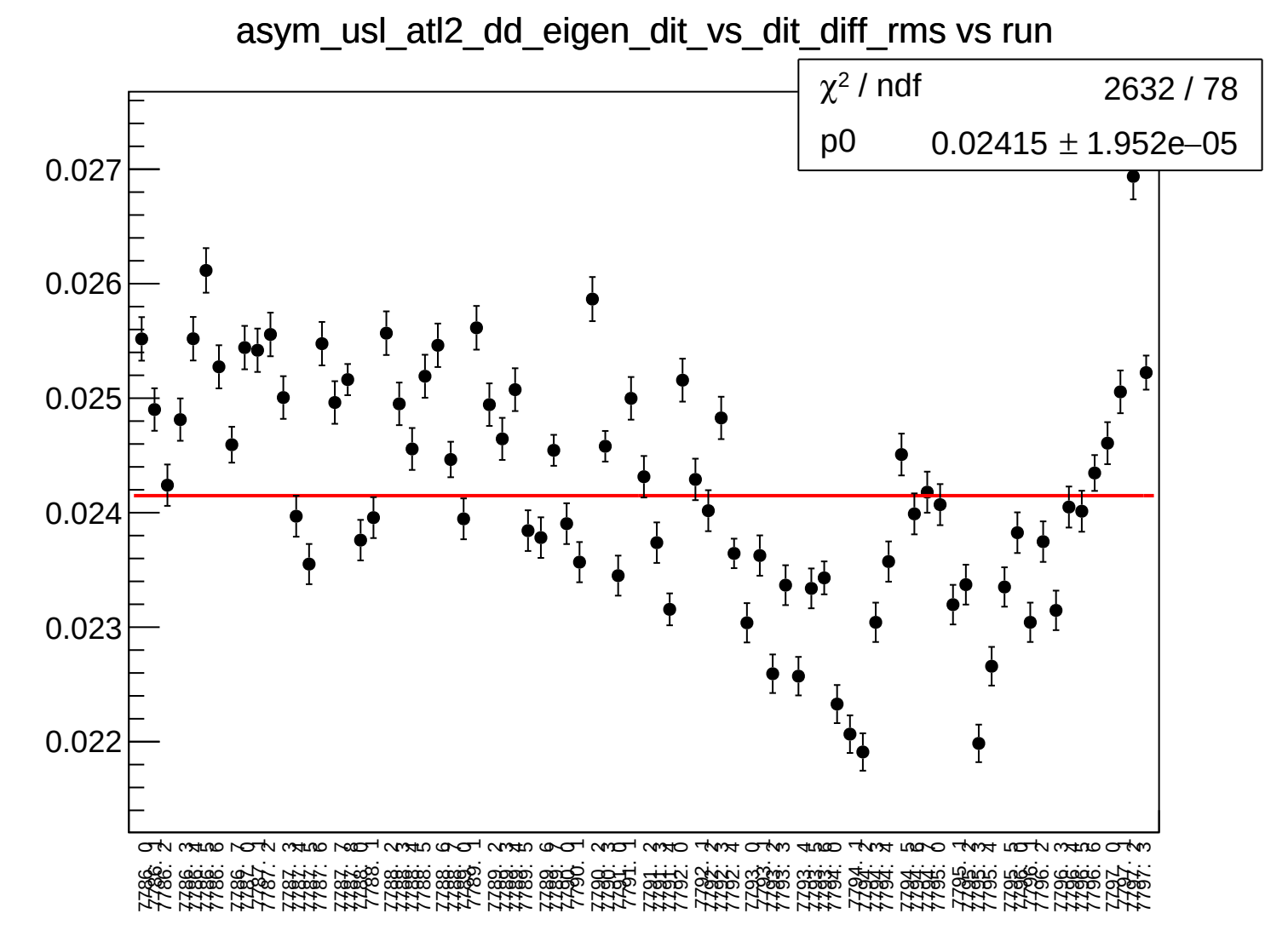

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9806 / 78
p0 151.4 ± 0.1226
190
180
170
160
150
140
130
120

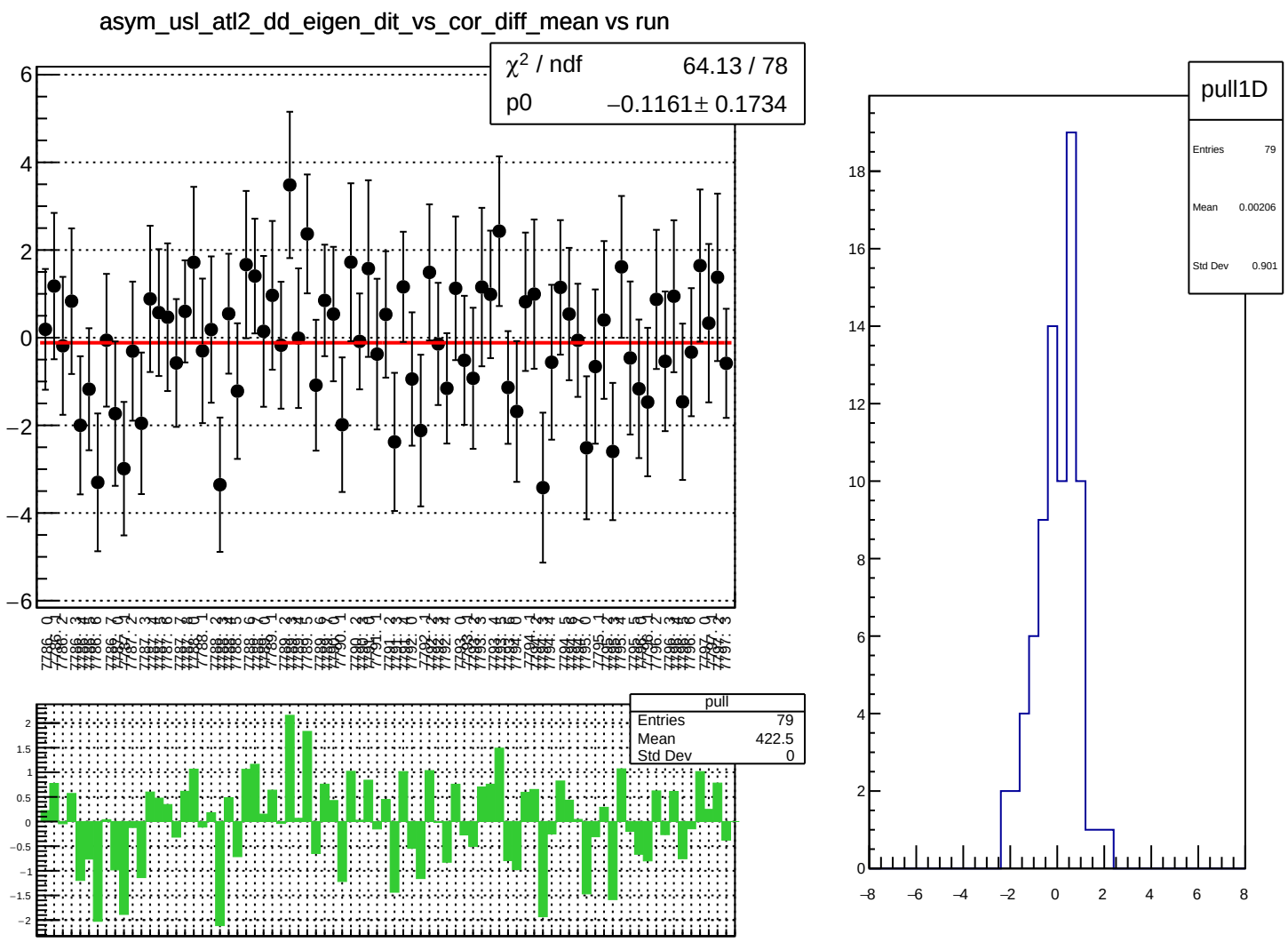

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.14 / 78
p0 −0.1161± 0.1734
pull
Entries 79
Mean 422.6
Std Dev 0
pull1D
Entries 79
Mean 0.002062
Std Dev 0.901

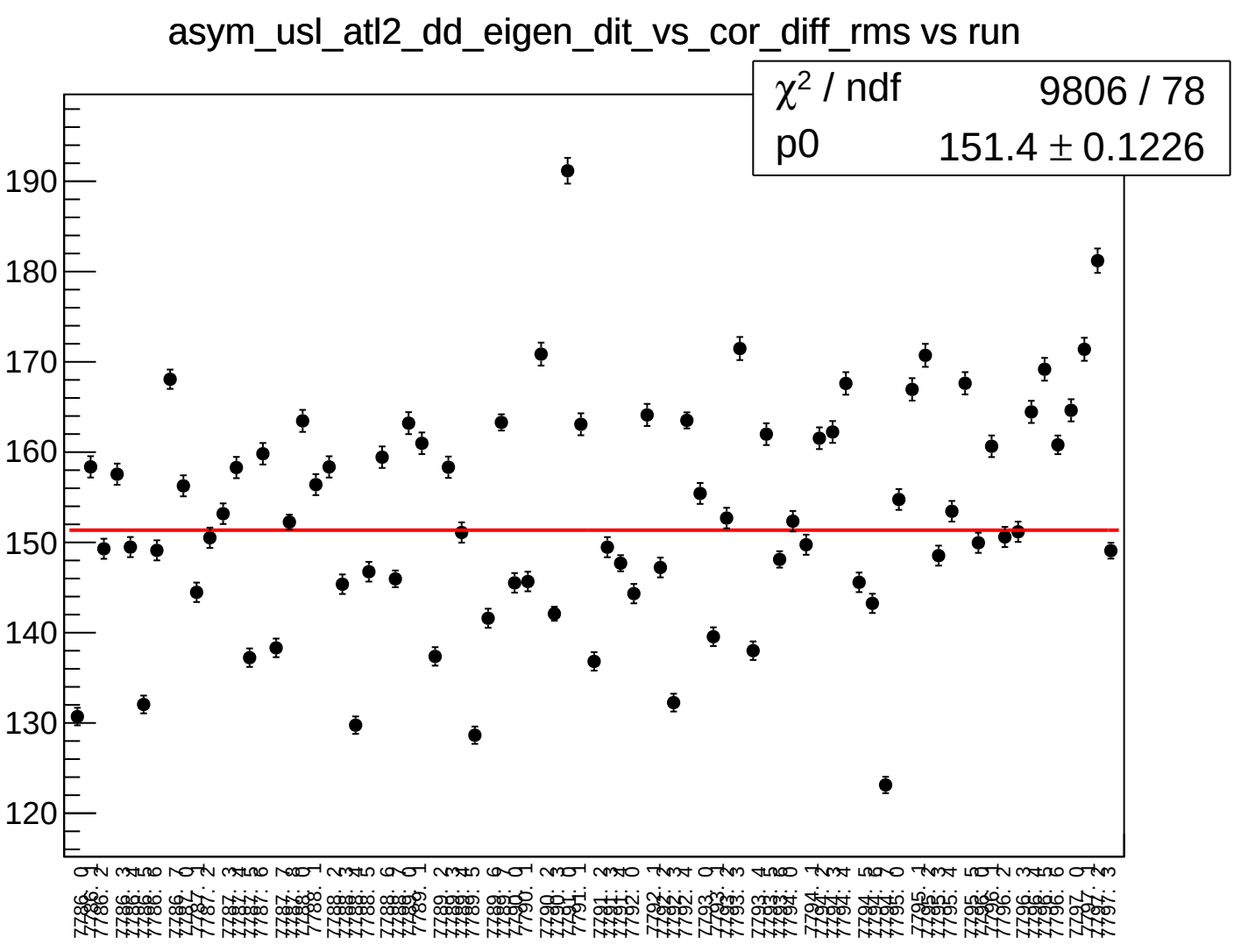

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9806 / 78
p0 151.4 ± 0.1226
190
180
170
160
150
140
130
120

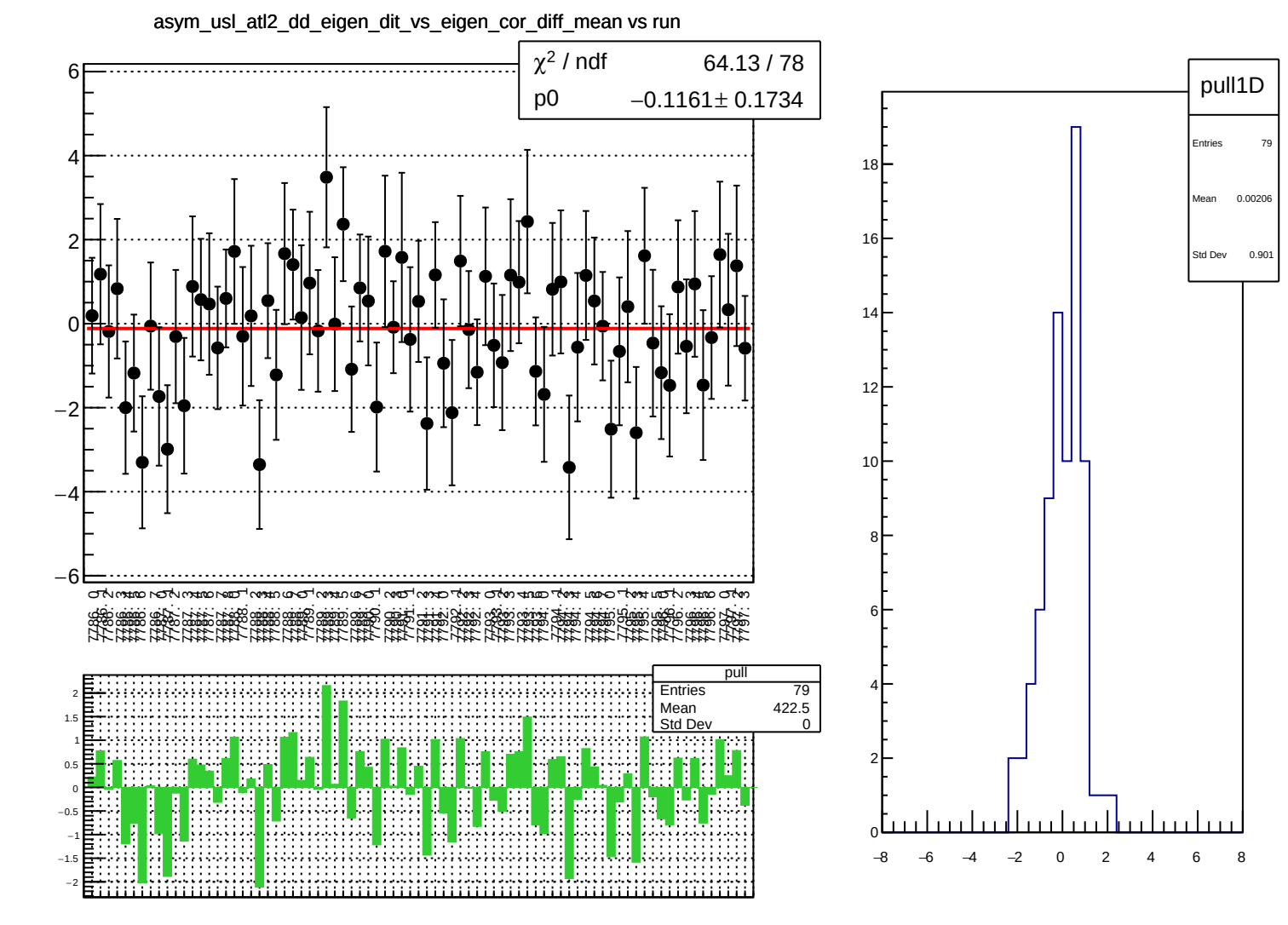

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.25 / 78
p0 −9.252e−07 ± 2.76e−05
pull
Entries 79
Mean −335.8
Std Dev 0

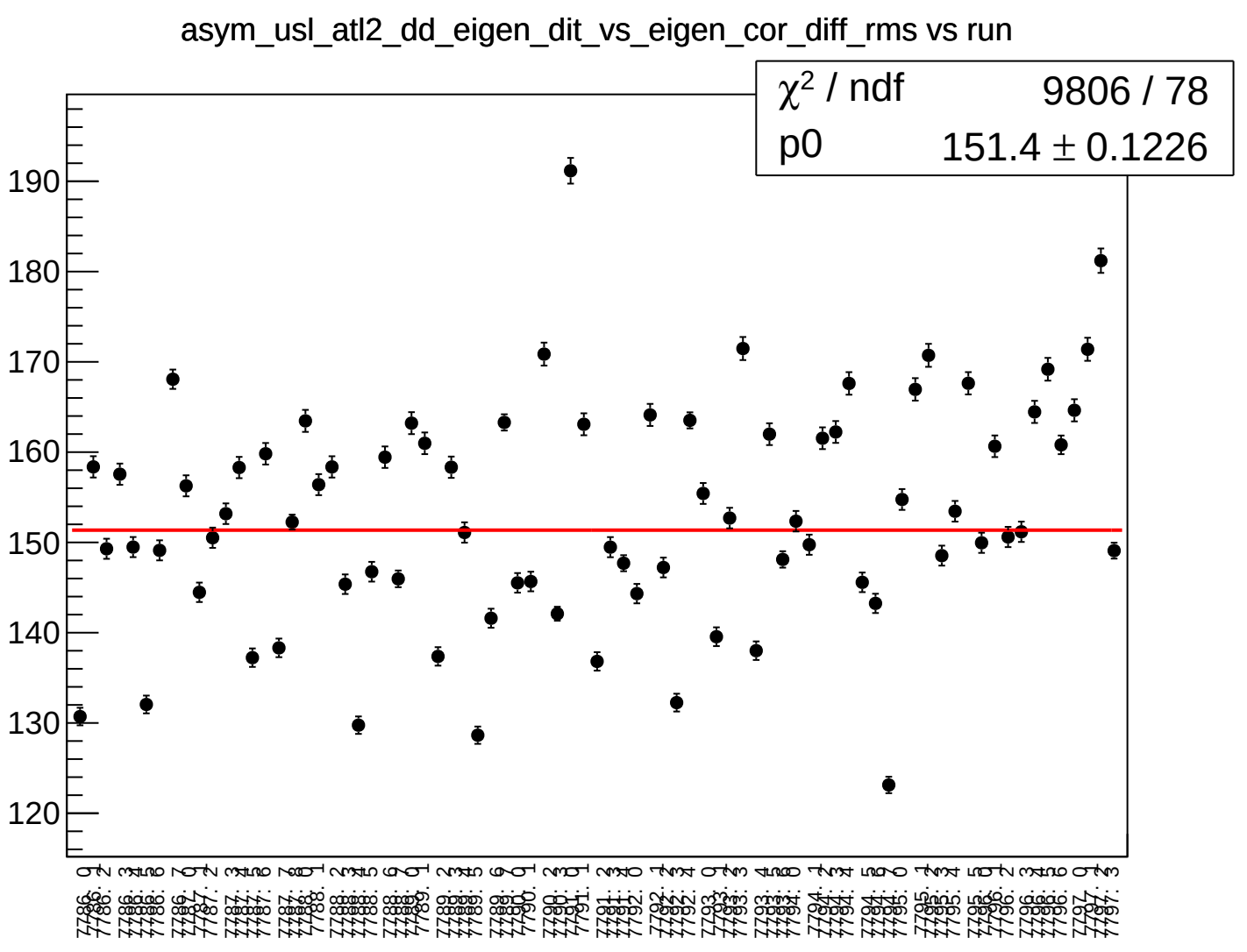

pull1D
Entries 79
Mean 0.01269
Std Dev 0.9824

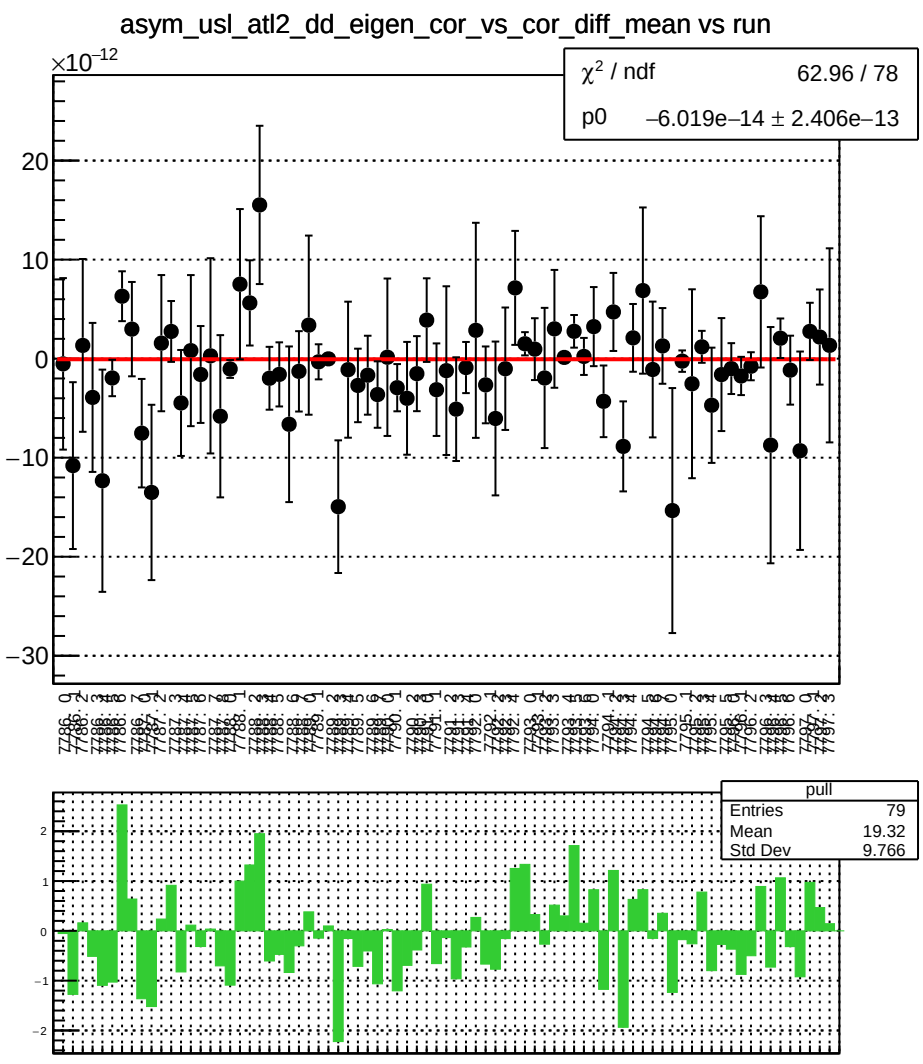

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2632 / 78
p0 0.02415 ± 1.952e−05
0.027
0.026
0.025
0.024
0.023
0.022

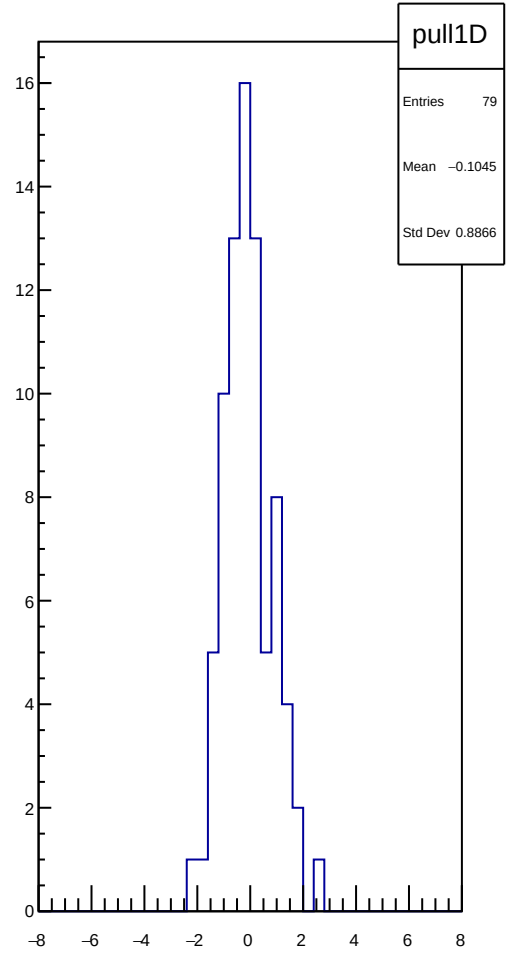

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.13 / 78
p0 −0.1161± 0.1734
pull
Entries 79
Mean 422.5
Std Dev 0
pull1D
Entries 79
Mean 0.00206
Std Dev 0.901

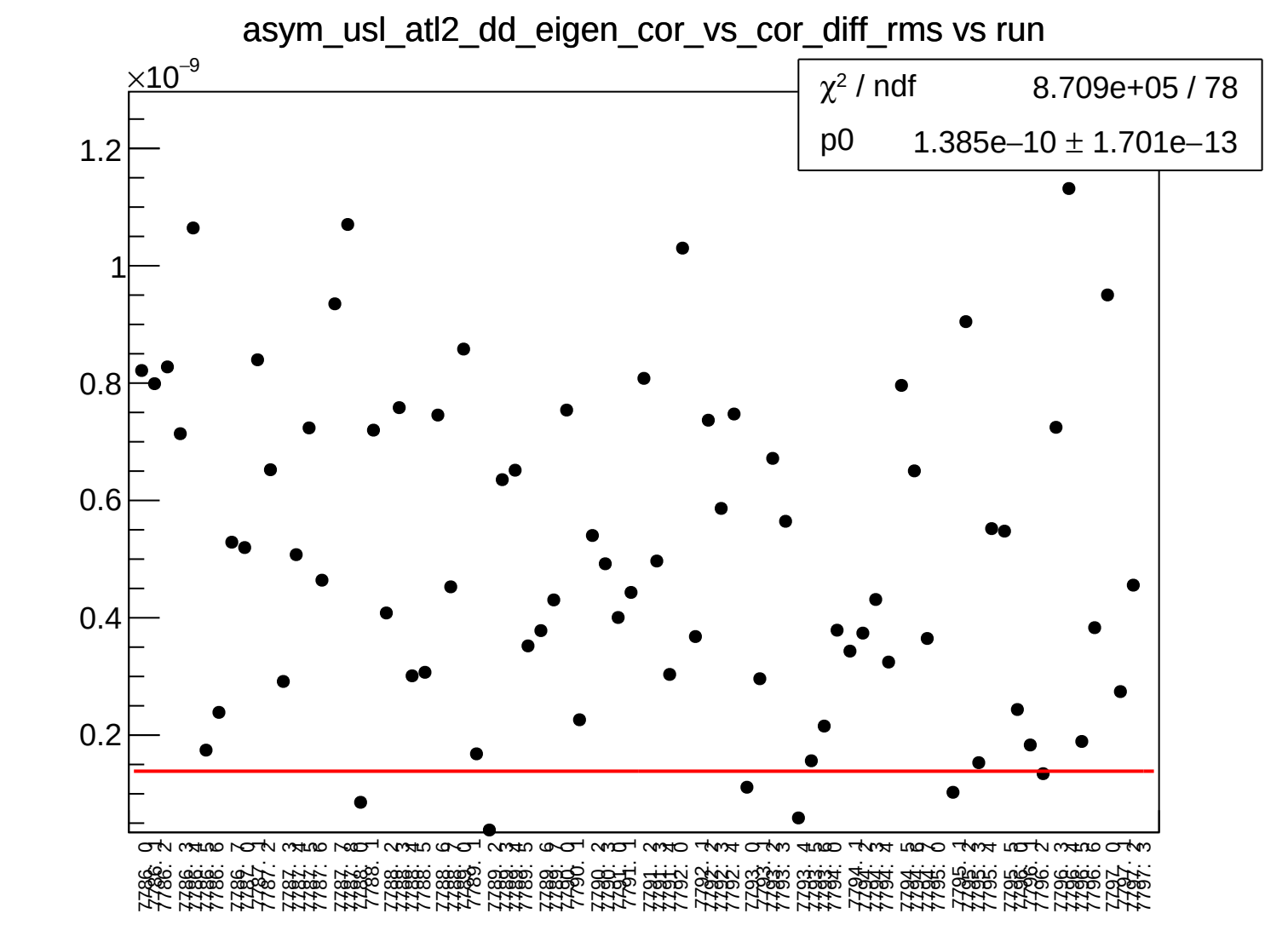

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9806 / 78
p0 151.4 ± 0.1226
190
180
170
160
150
140
130
120

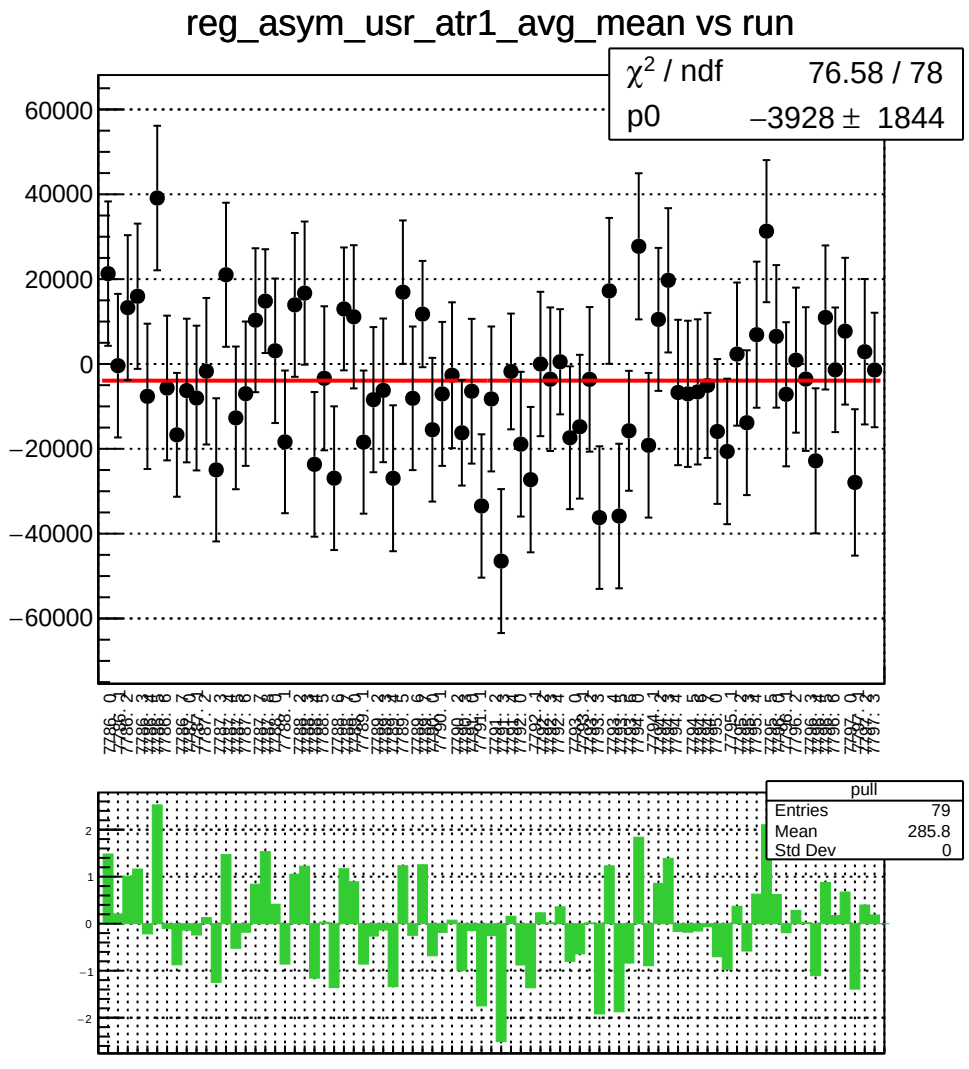

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.13 / 78
p0 −0.1161± 0.1734
pull
Entries 79
Mean 422.5
Std Dev 0
pull1D
Entries 79
Mean 0.00206
Std Dev 0.901

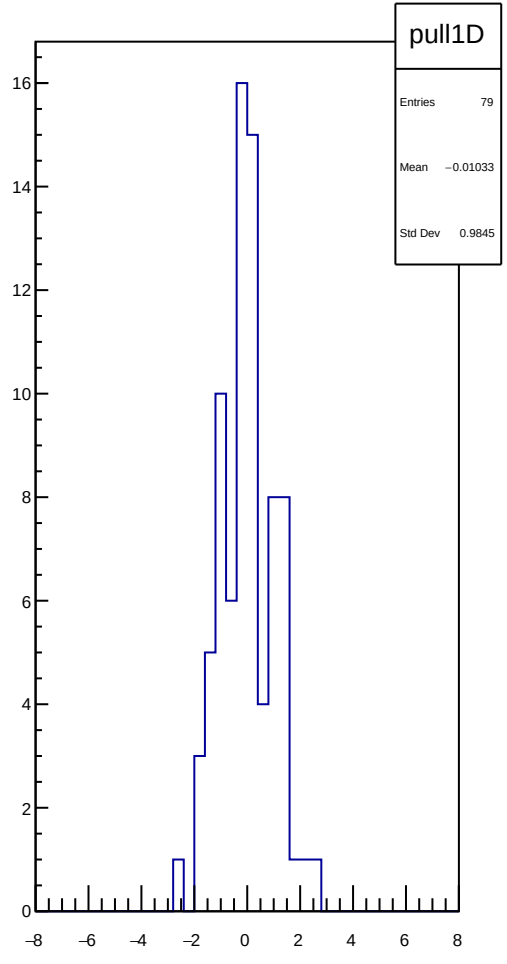

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9806 / 78
p0 151.4 ± 0.1226
190
180
170
160
150
140
130
120

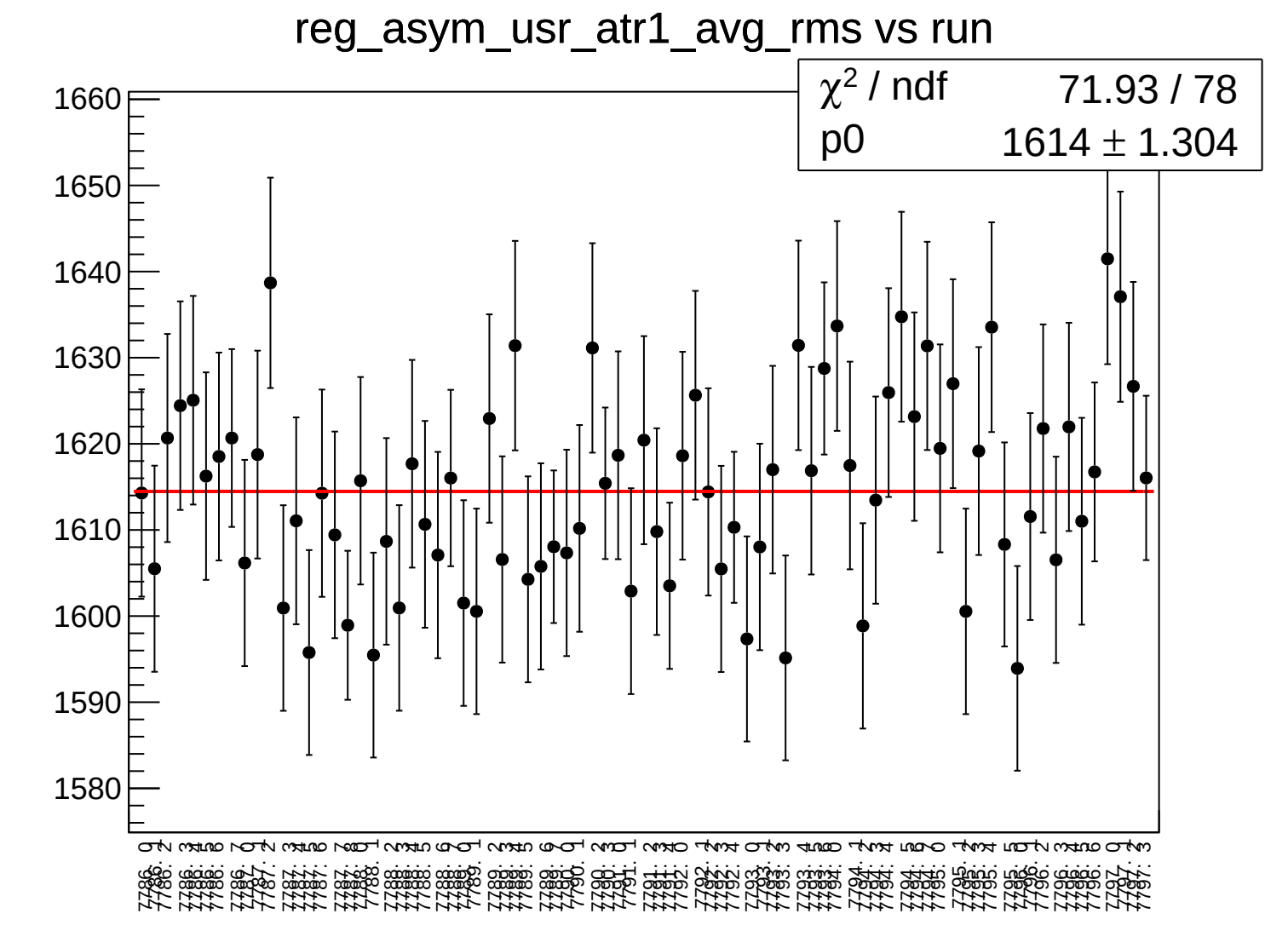

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.96 / 78
p0 −6.019e−14 ± 2.406e−13
20
10
0
−10
−20
−30
pull
Entries 79
Mean 19.32
Std Dev 9.766
2
1
0
−1
−2

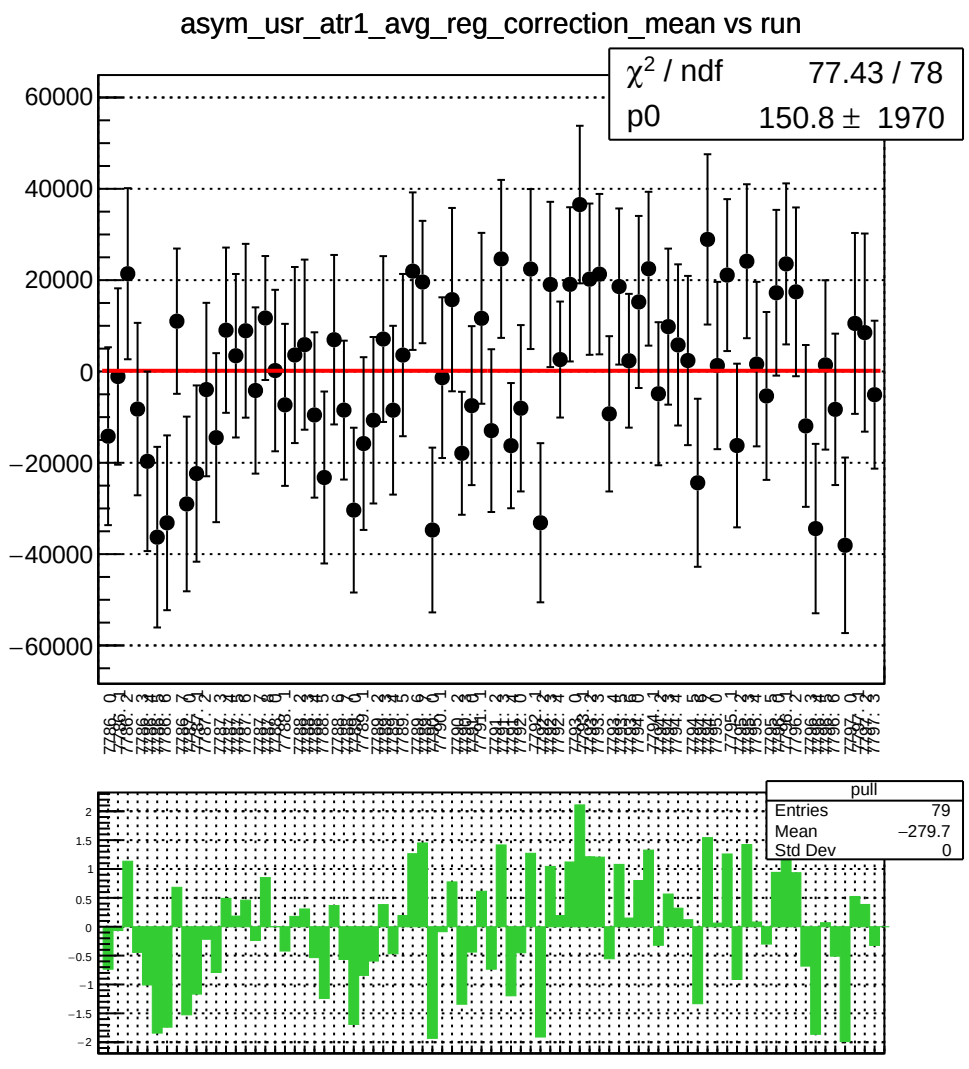

pull1D
Entries 79
Mean −0.1045
Std Dev 0.8866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

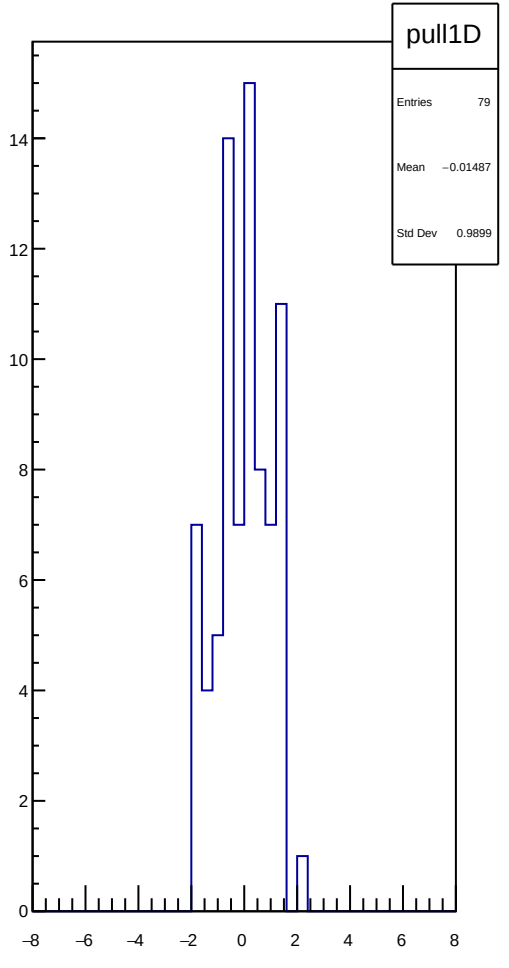

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.709e+05 / 78
p0 1.385e−10 ± 1.701e−13
1.2
1
0.8
0.6
0.4
0.2

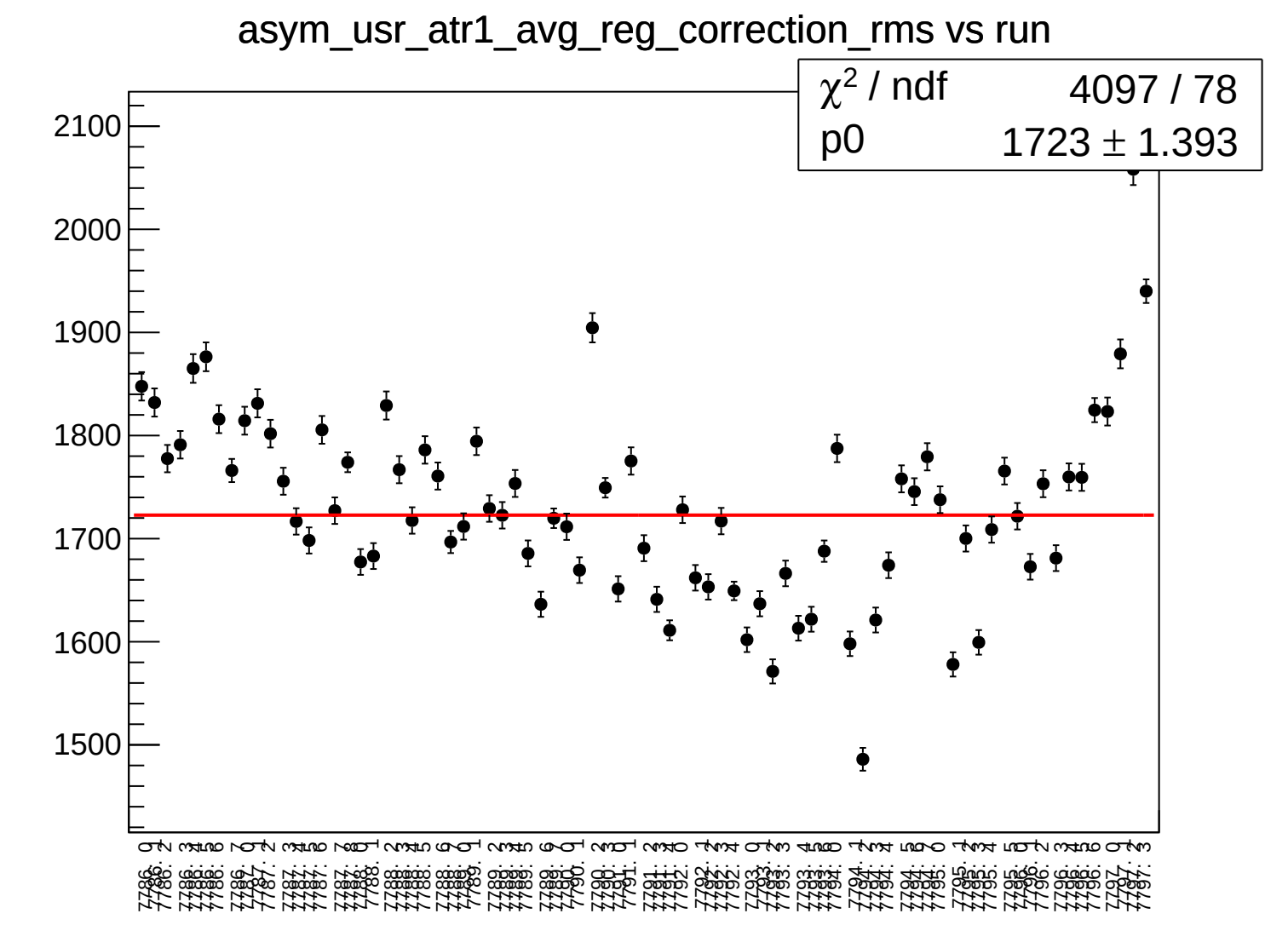

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 76.58 / 78
p0 −3928 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 285.8
Std Dev 0
2
1
0
−1
−2

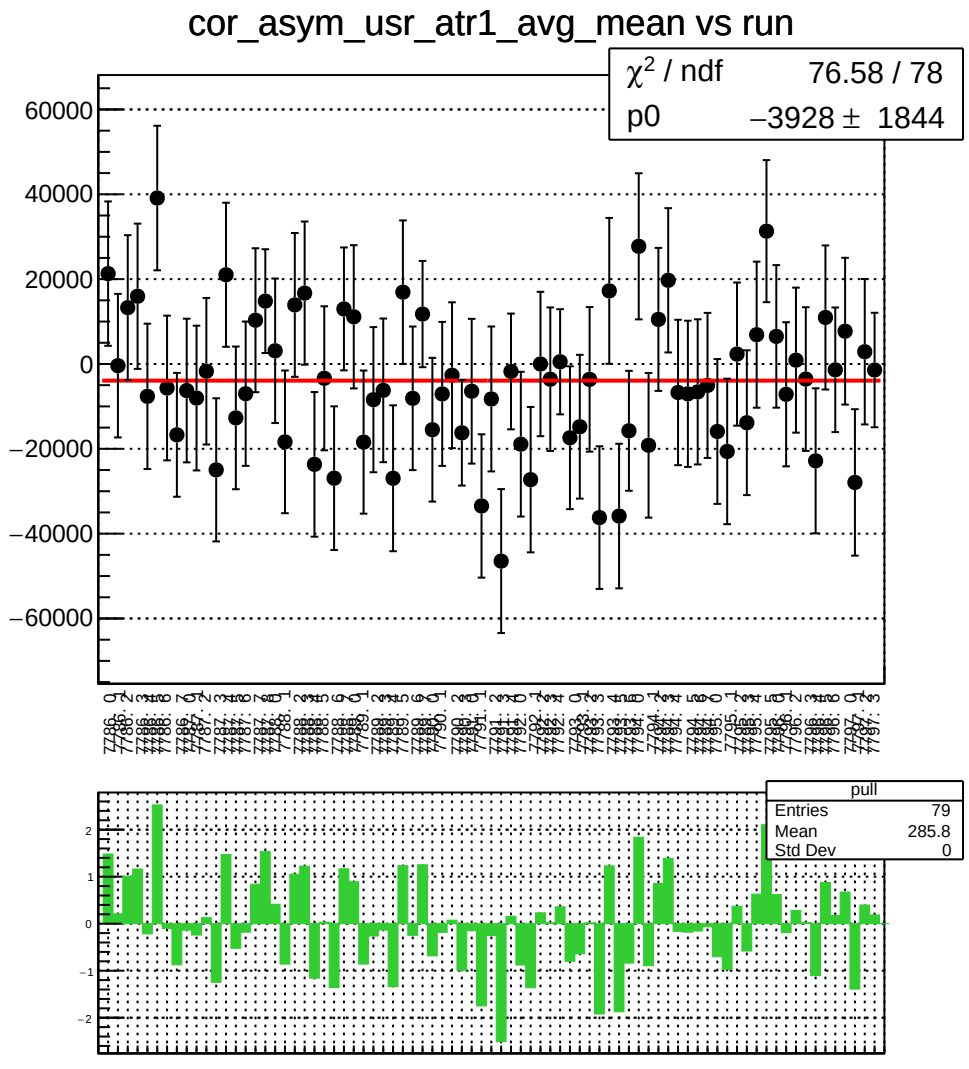

pull1D
Entries 79
Mean −0.01033
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

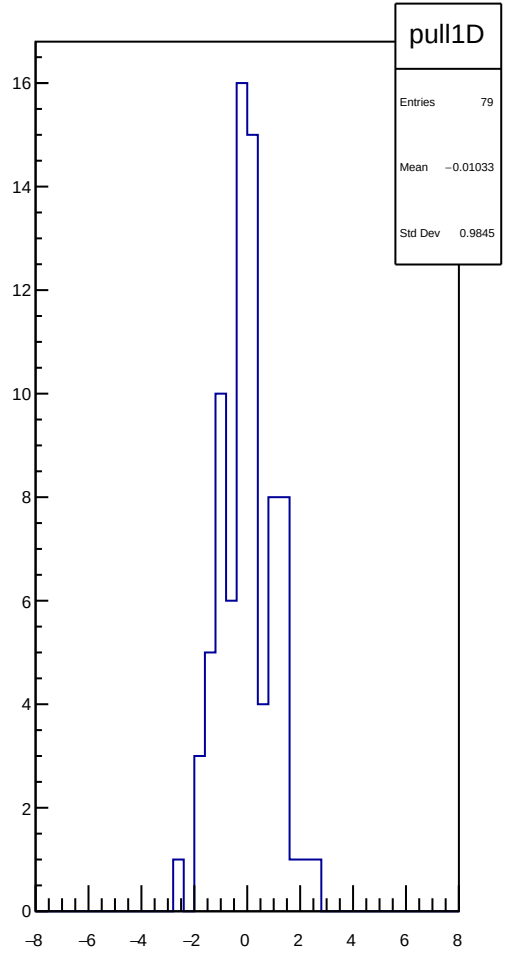

reg_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 71.93 / 78
p0 1614 ± 1.304
1660
1650
1640
1630
1620
1610
1600
1590
1580

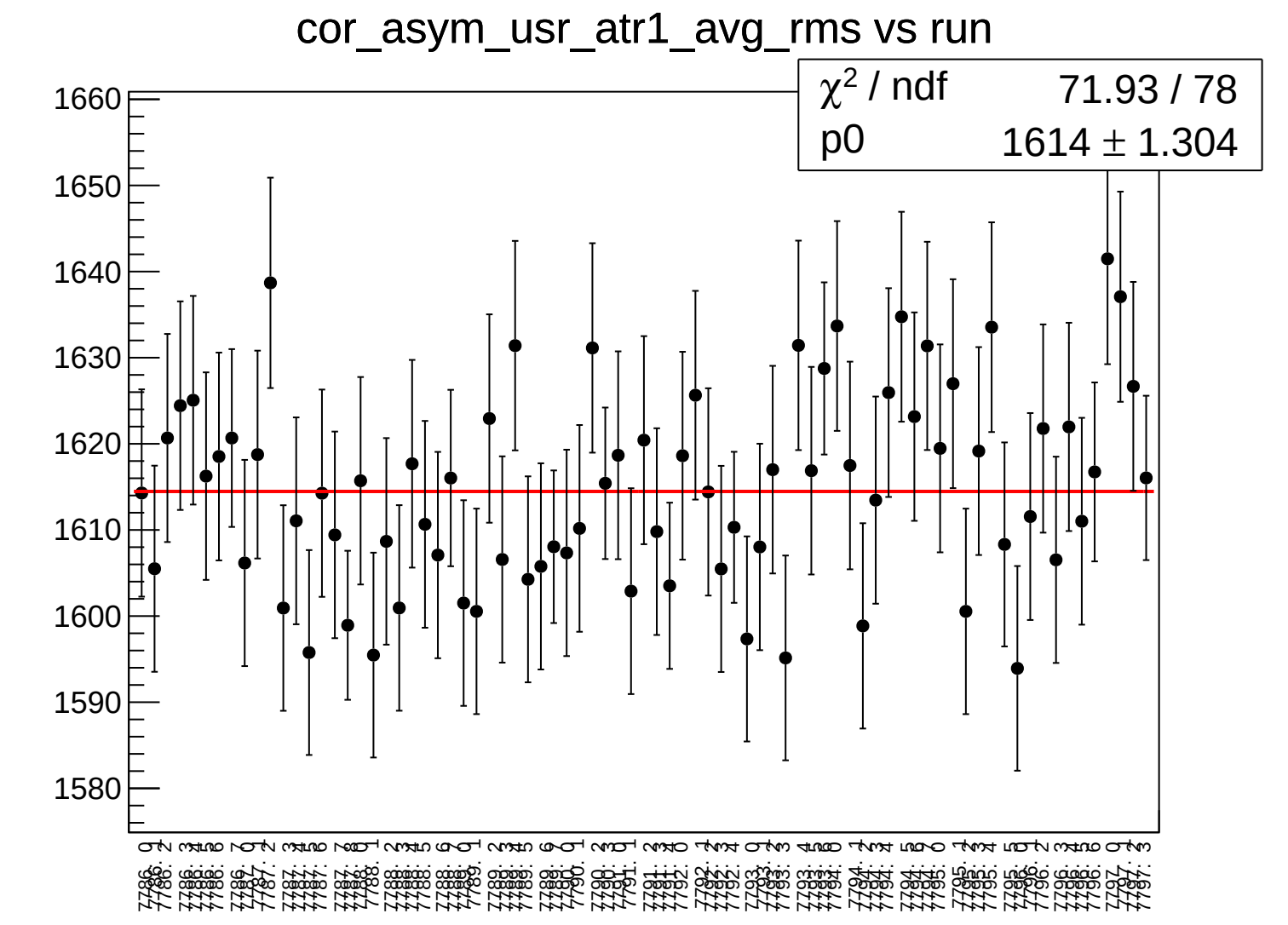

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 77.43 / 78
p0 150.8 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −279.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

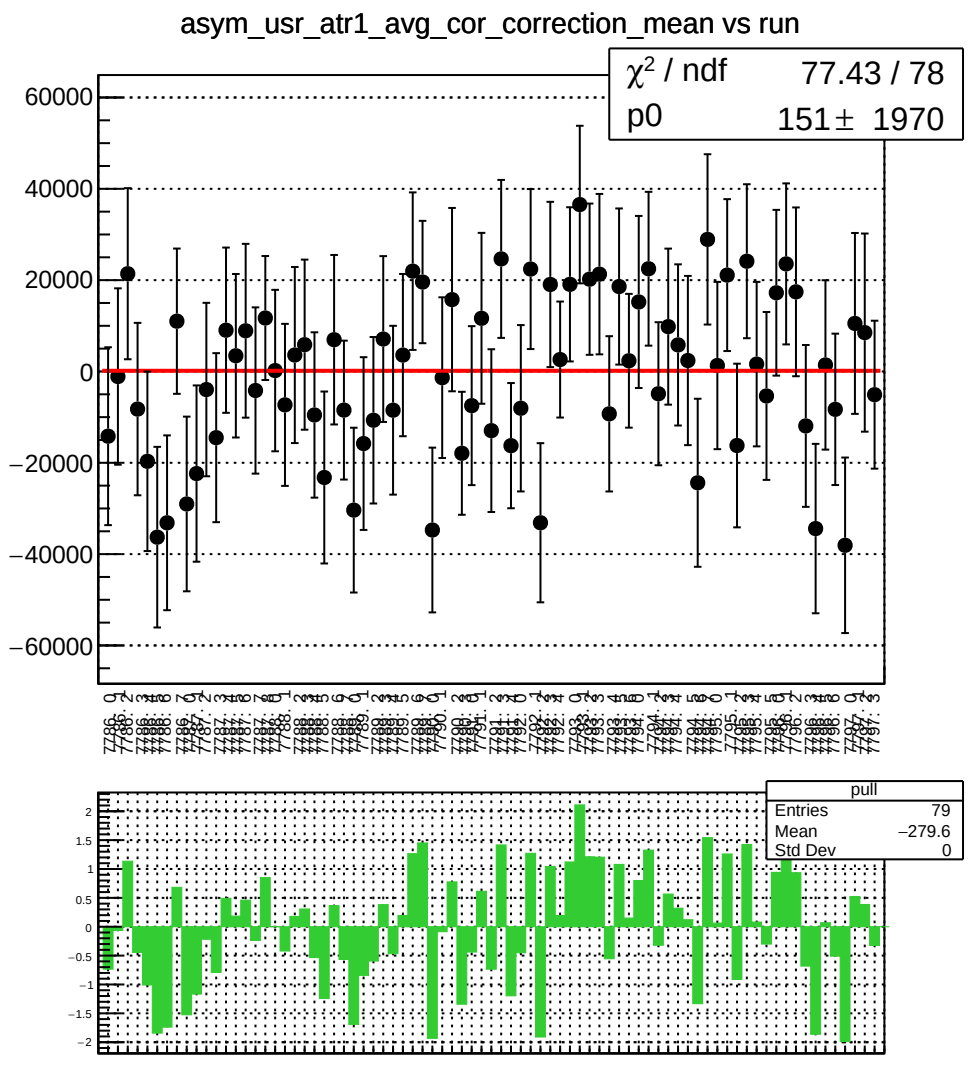

pull1D
Entries 79
Mean −0.01487
Std Dev 0.9899
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

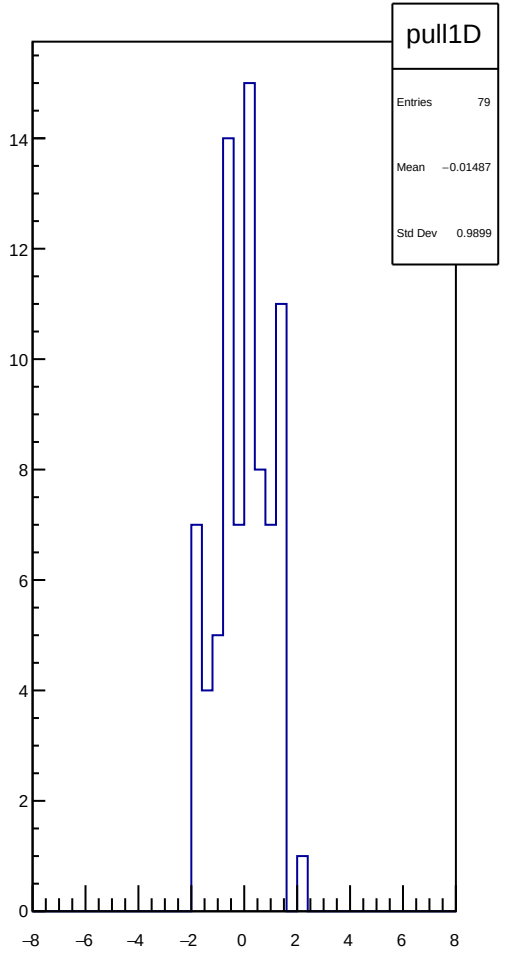

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 4097 / 78
p0 1723 ± 1.393
2100
2000
1900
1800
1700
1600
1500

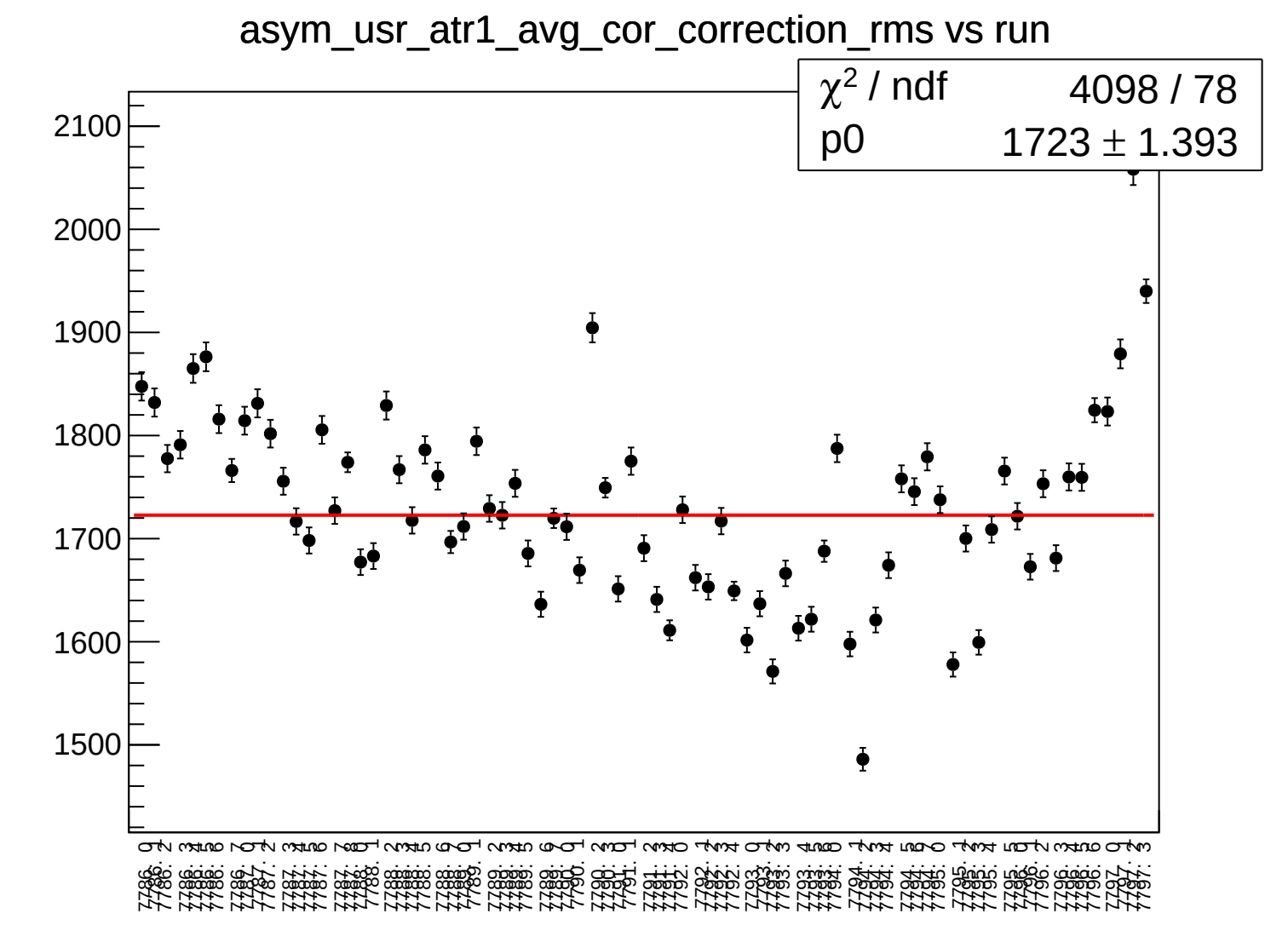

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 76.58 / 78
p0 −3928 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 285.8
Std Dev 0
2
1
0
−1
−2

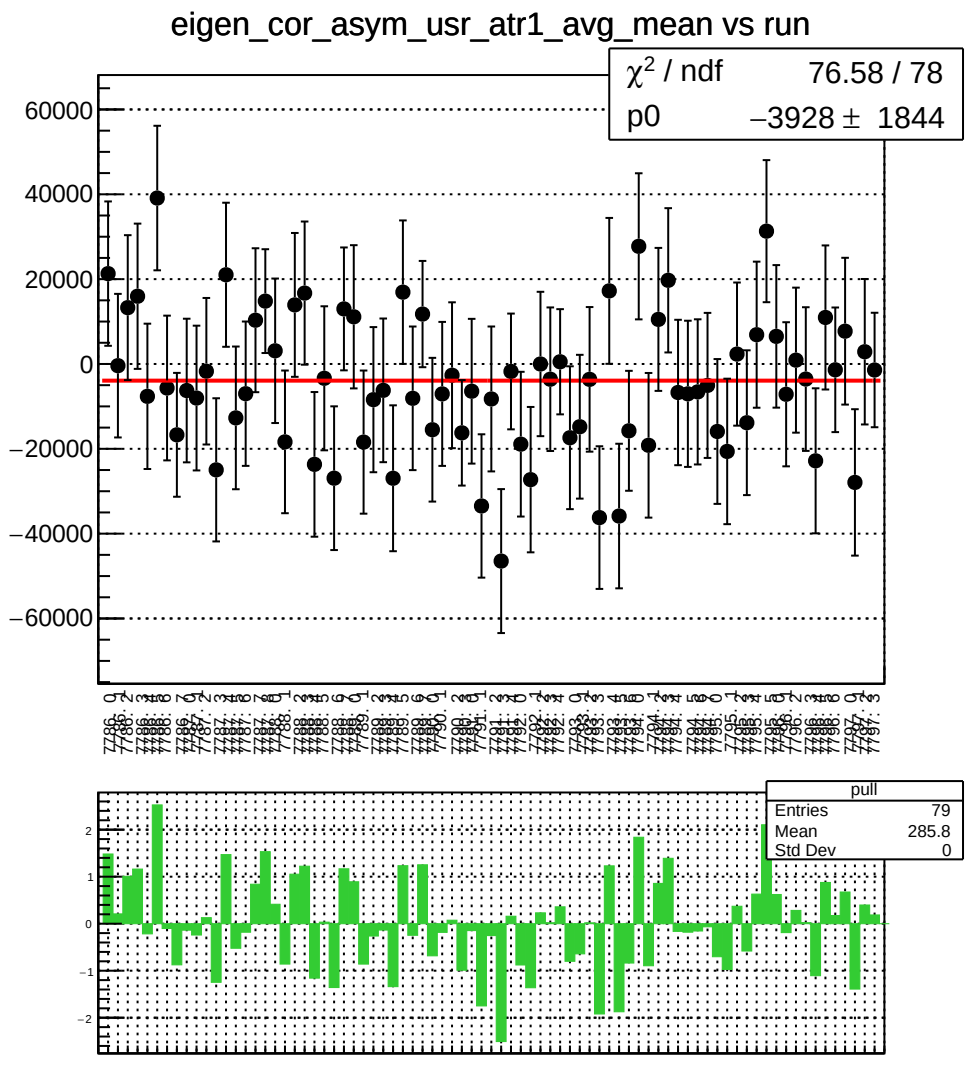

pull1D
Entries 79
Mean −0.01033
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

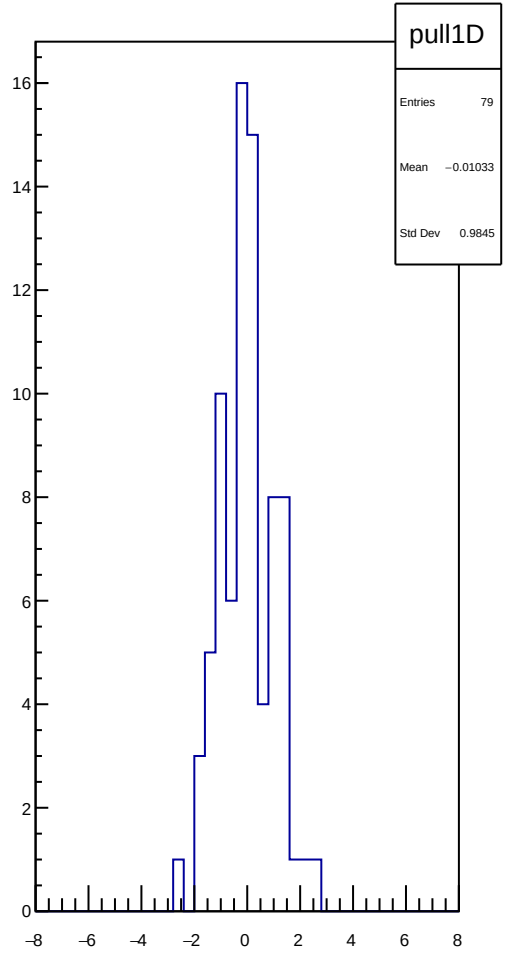

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 71.93 / 78
p0 1614 ± 1.304
1660
1650
1640
1630
1620
1610
1600
1590
1580

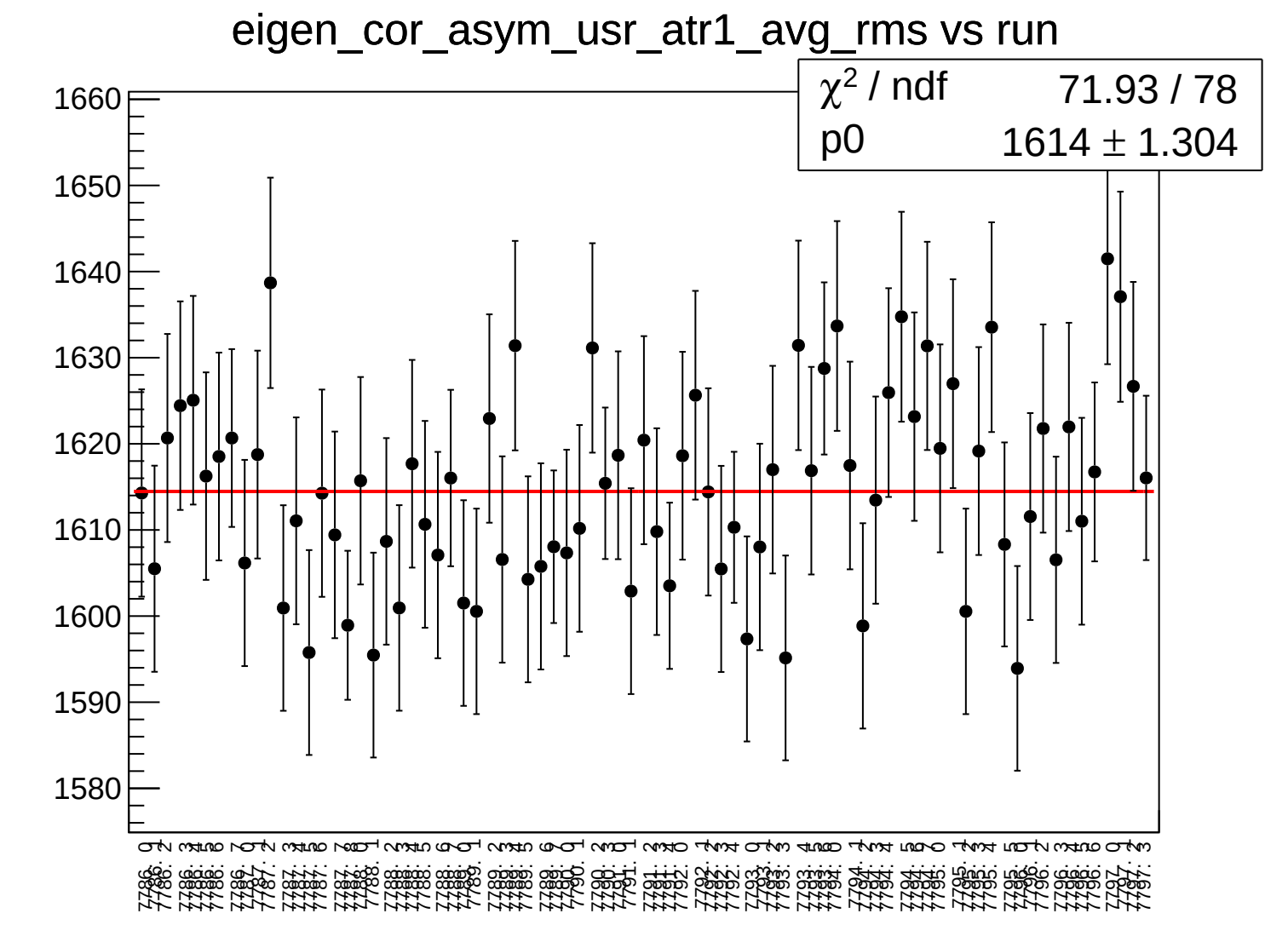

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 77.43 / 78
p0 151 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −279.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

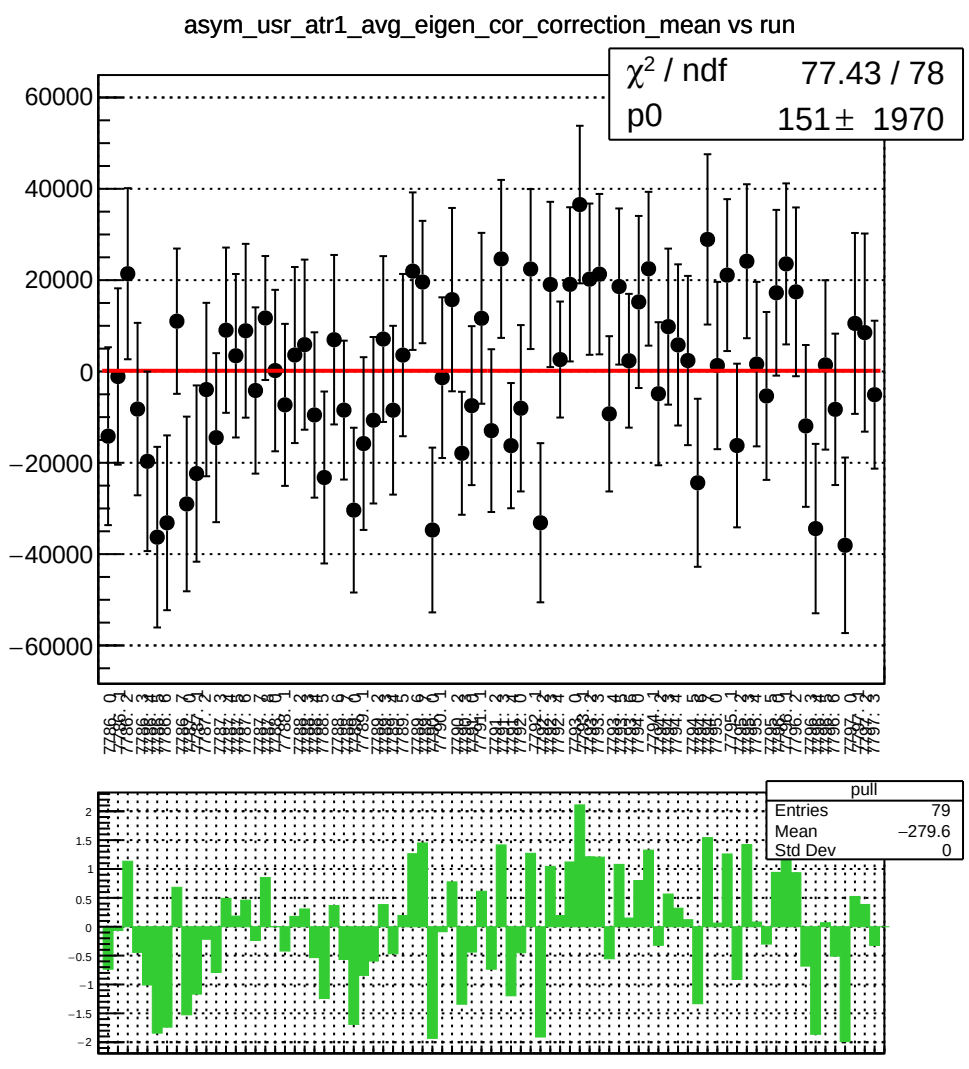

pull1D
Entries 79
Mean −0.01487
Std Dev 0.9899
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

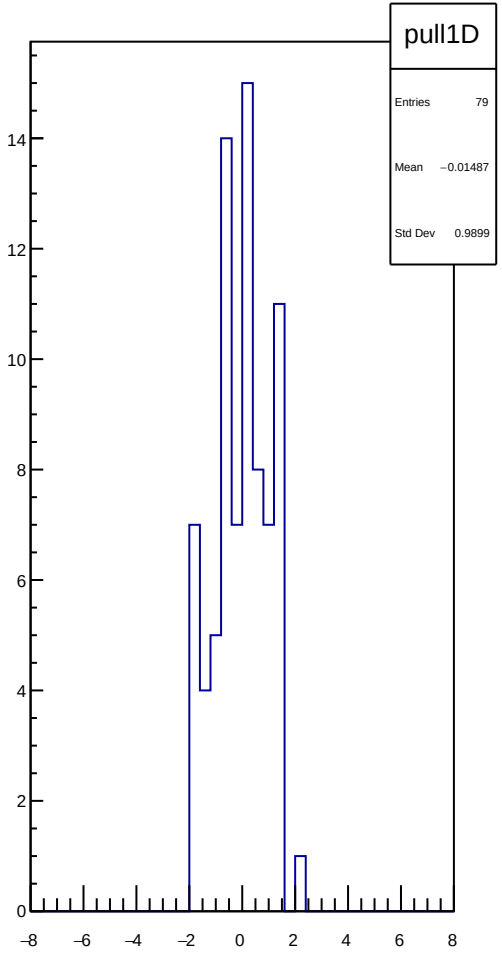

asym_usr_atr1_avg_cor_correction_rms vs run
χ^2 / ndf 4098 / 78
p0 1723 ± 1.393
2100
2000
1900
1800
1700
1600
1500

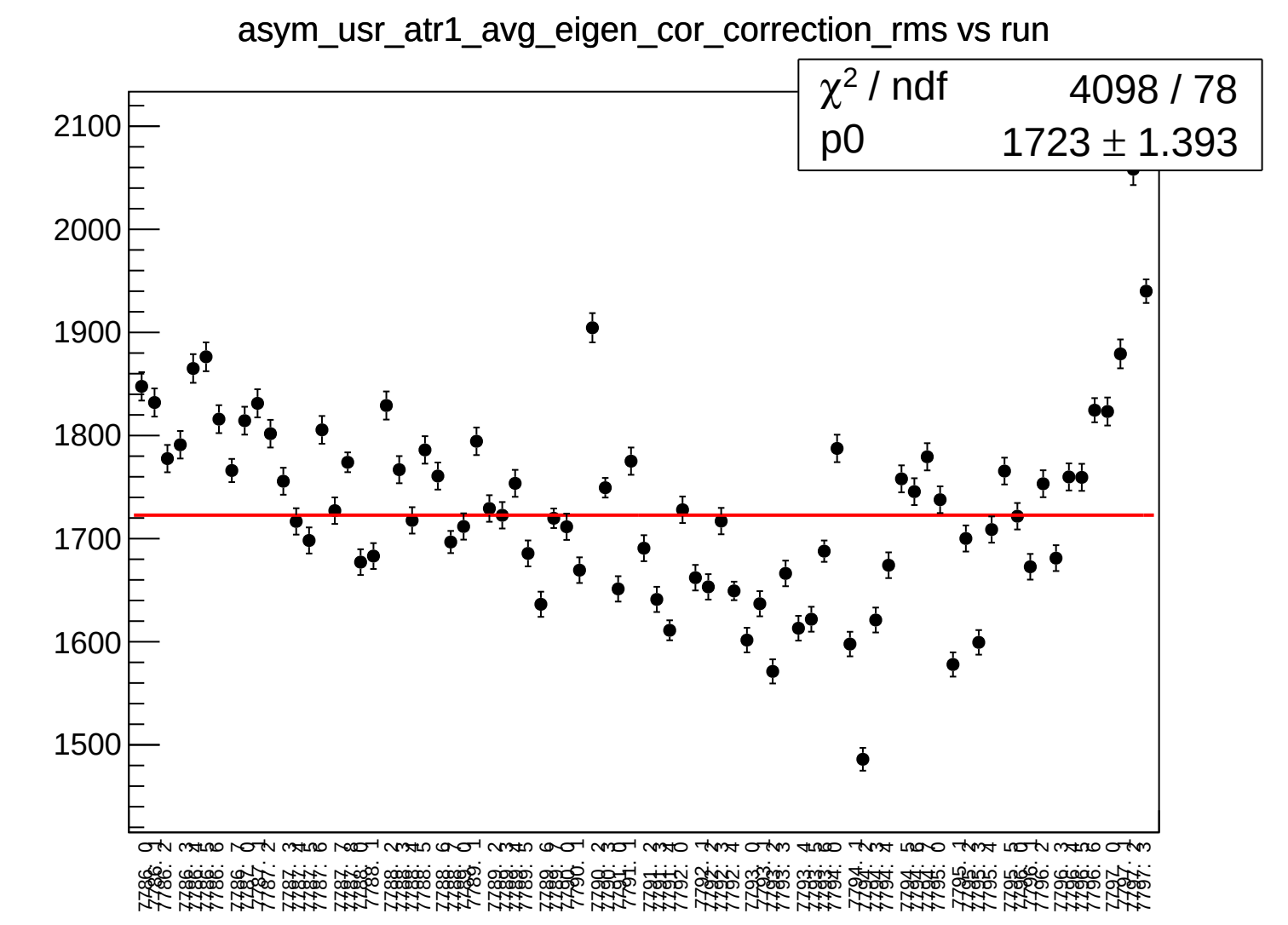

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 76.58 / 78
p0 −3928 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 285.8
Std Dev 0
2
1
0
−1
−2

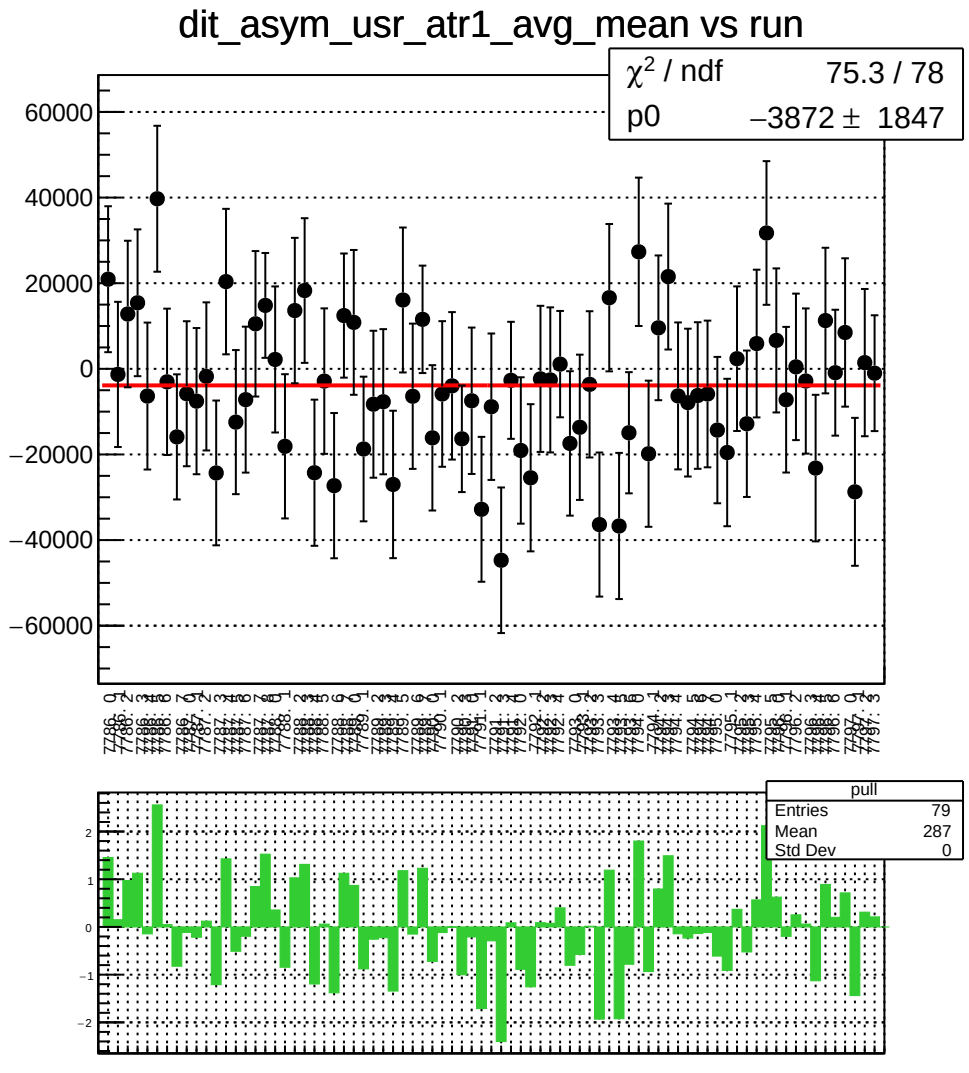

pull1D
Entries 79
Mean −0.01033
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

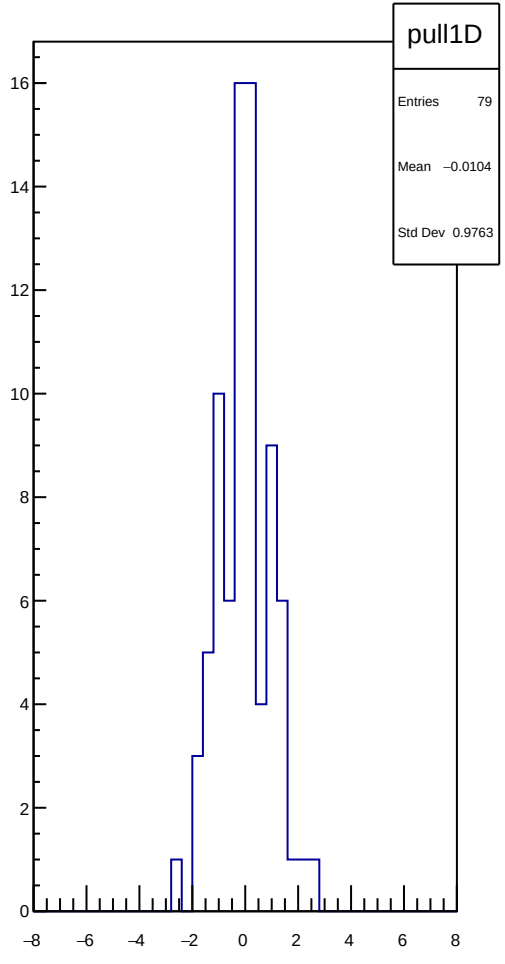

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 71.93 / 78
p0 1614 ± 1.304
1660
1650
1640
1630
1620
1610
1600
1590
1580

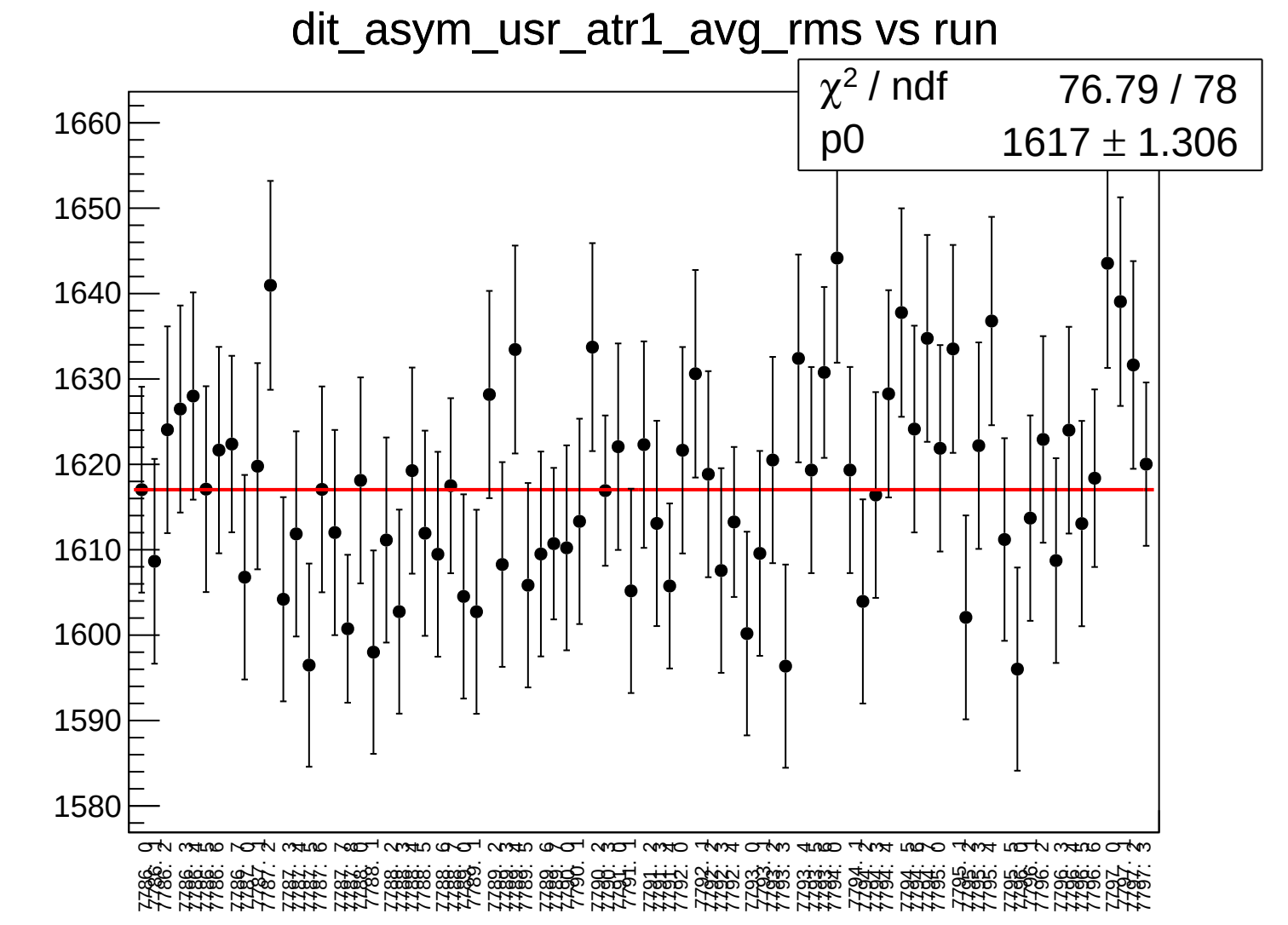

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.43 / 78
p0 151 ± 1970
pull
Entries 79
Mean −279.6
Std Dev 0

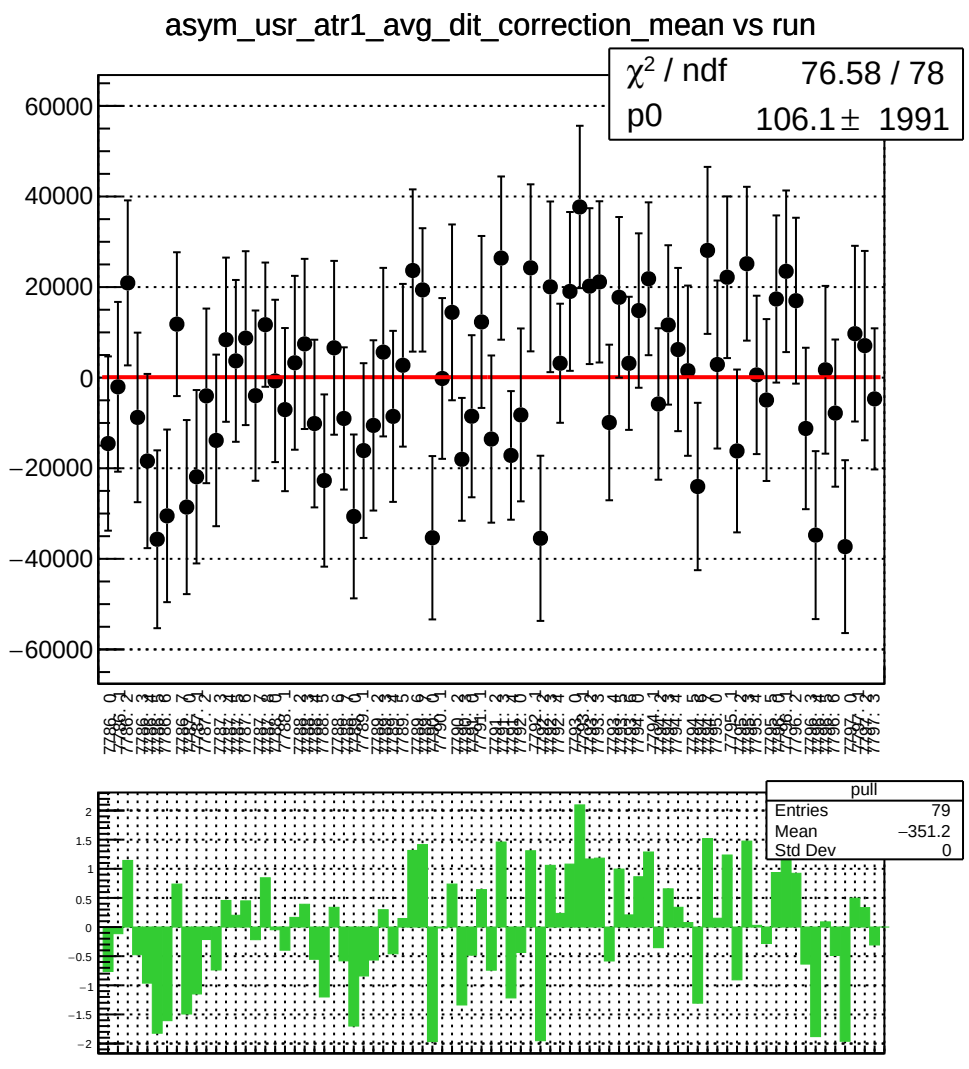

pull1D
Entries 79
Mean −0.01487
Std Dev 0.9899

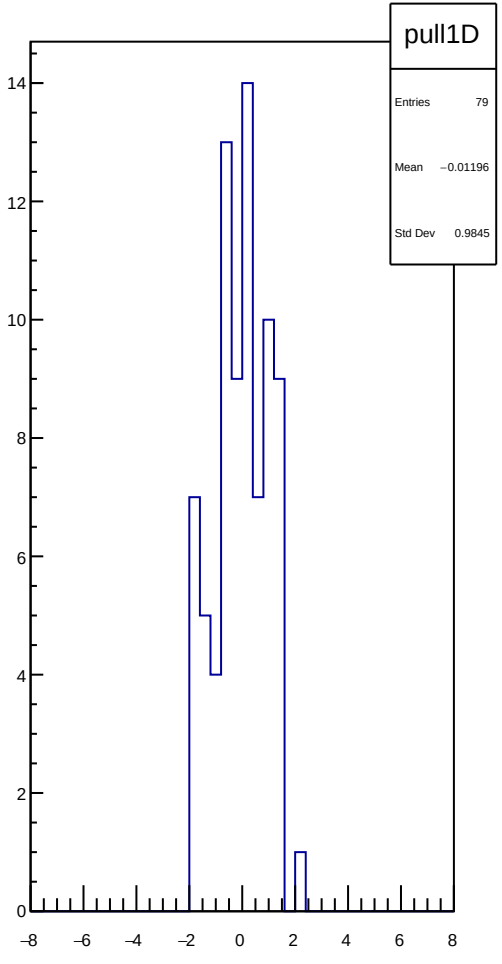

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4098 / 78
p0 1723 ± 1.393
2100
2000
1900
1800
1700
1600
1500

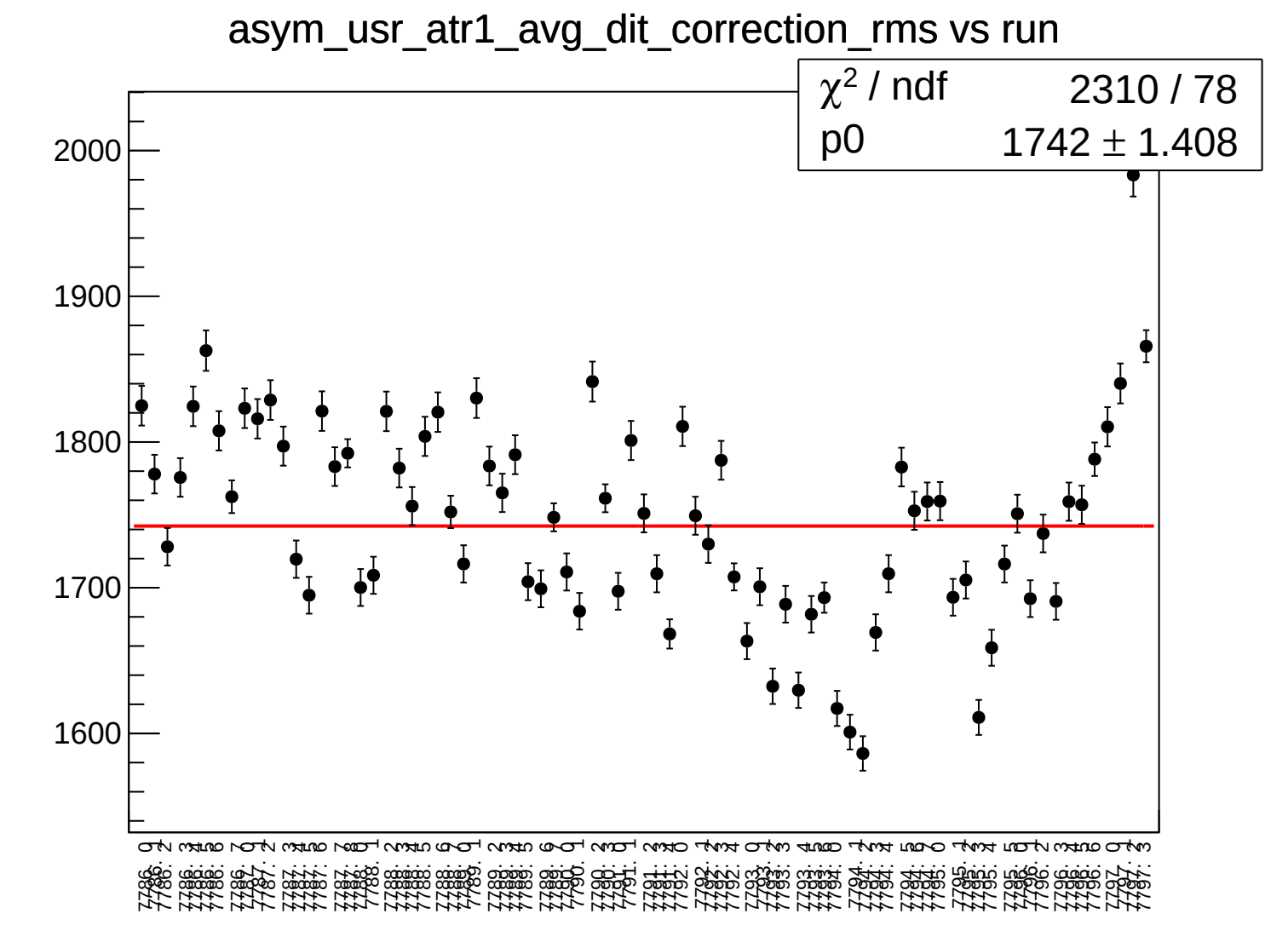

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 75.3 / 78
p0 −3872 ± 1847
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 287
Std Dev 0
2
1
0
−1
−2

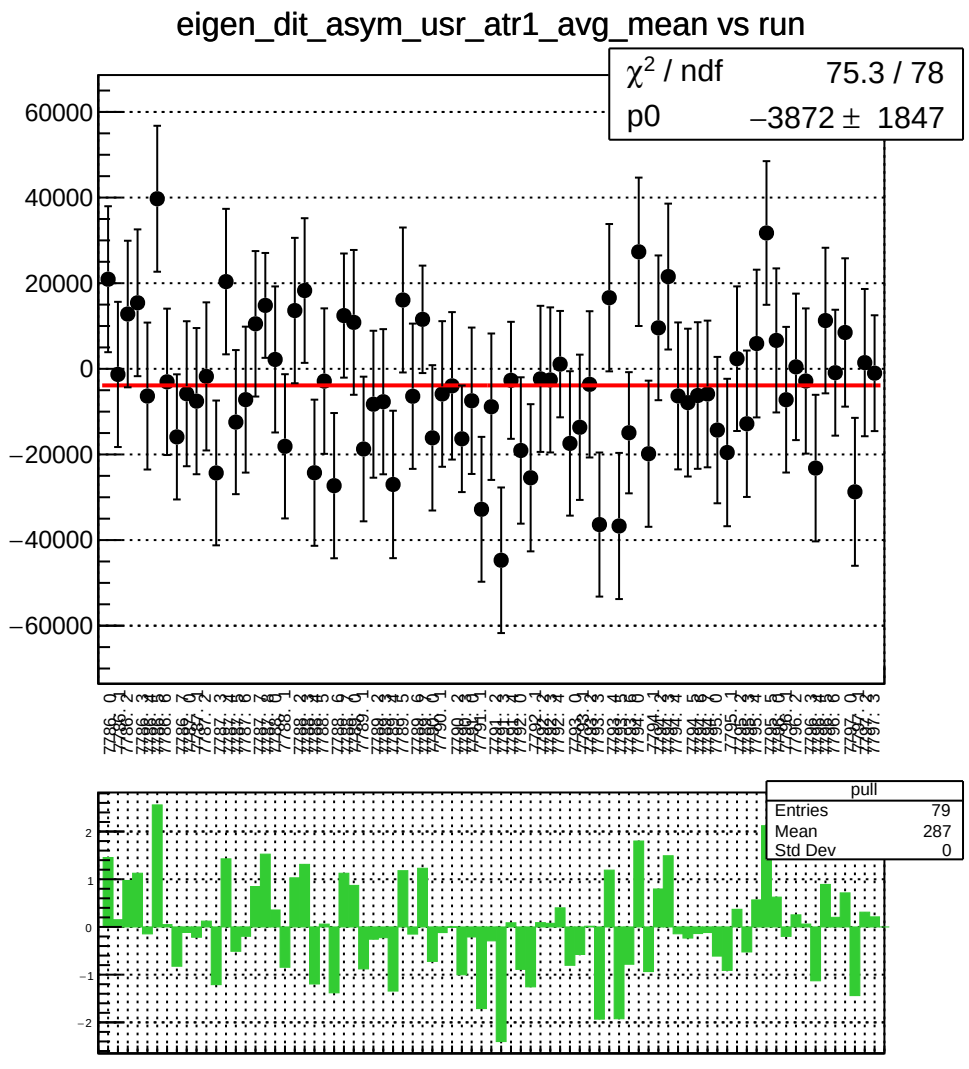

pull1D
Entries 79
Mean −0.0104
Std Dev 0.9763
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

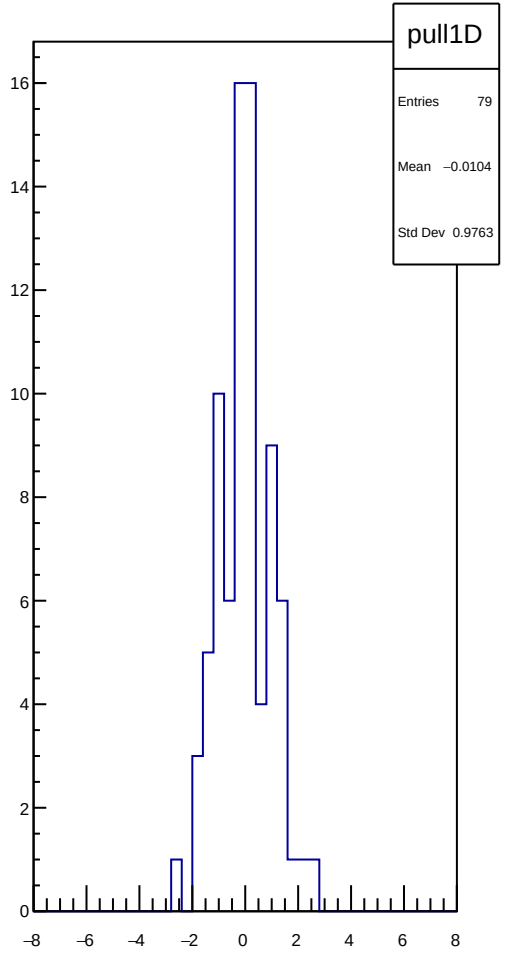

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 76.79 / 78
p0 1617 ± 1.306
1660
1650
1640
1630
1620
1610
1600
1590
1580

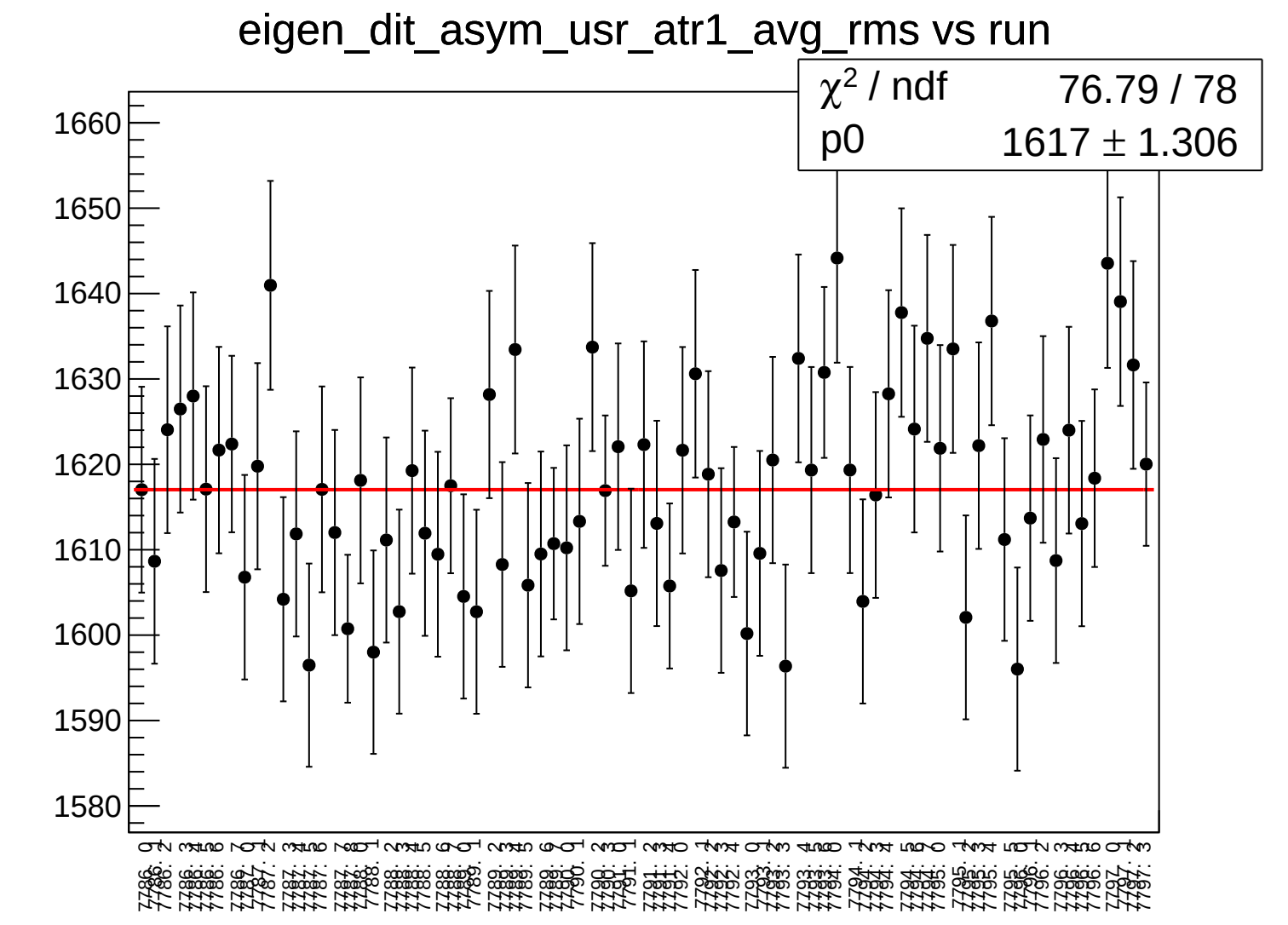

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 76.58 / 78
p0 106.1 ± 1991
pull
Entries 79
Mean −351.2
Std Dev 0

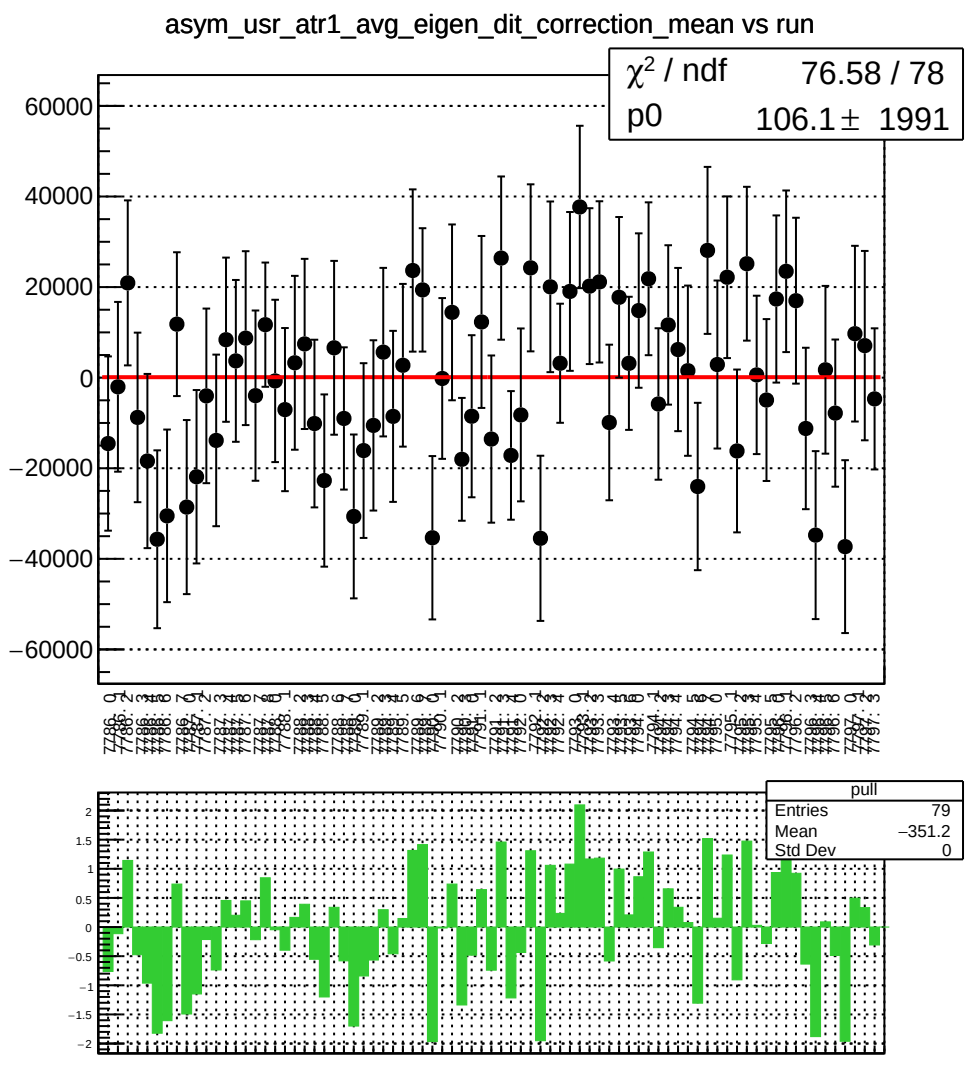

pull1D
Entries 79
Mean −0.01196
Std Dev 0.9845

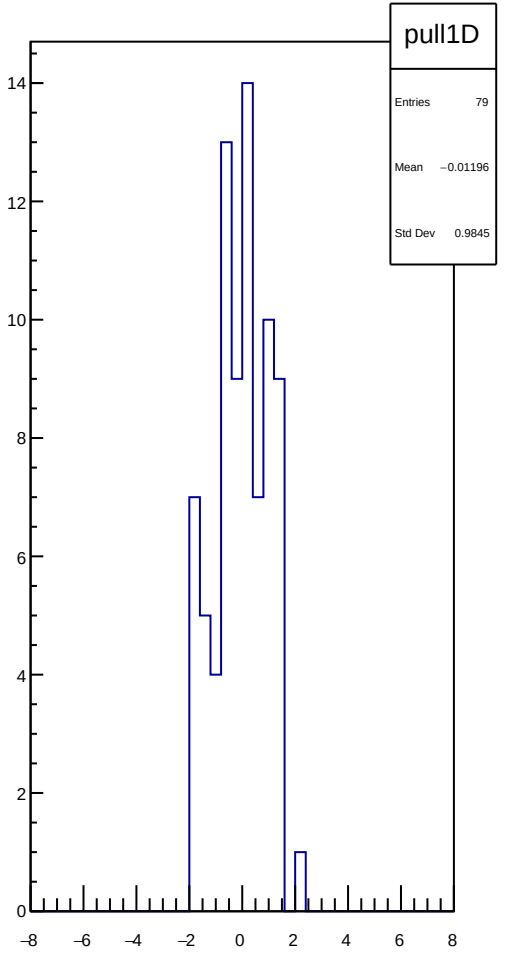

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2310 / 78
p0 1742 ± 1.408
2000
1900
1800
1700
1600

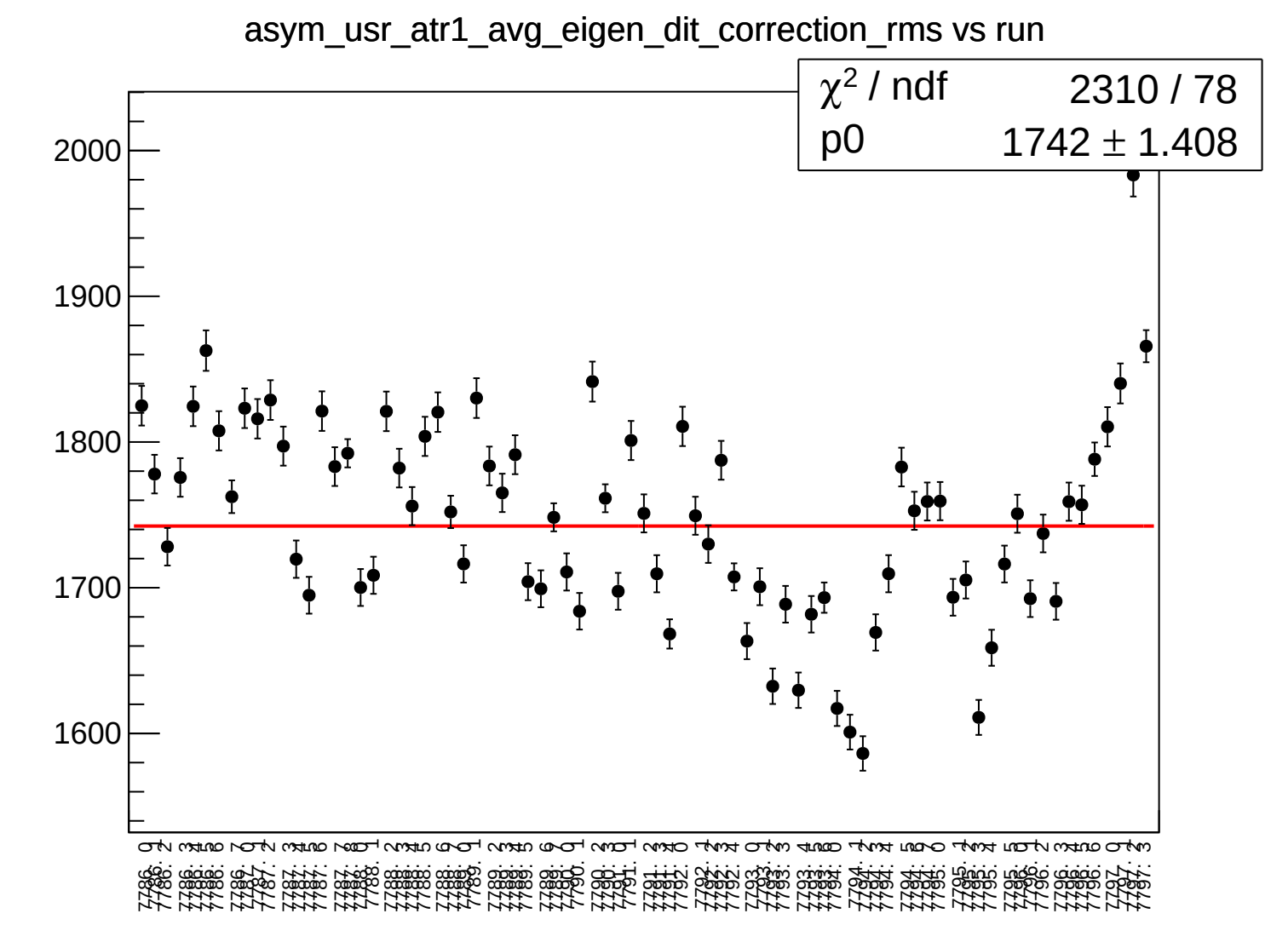

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 75.3 / 78
p0 −3872 ± 1847
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 287
Std Dev 0
2
1
0
−1
−2

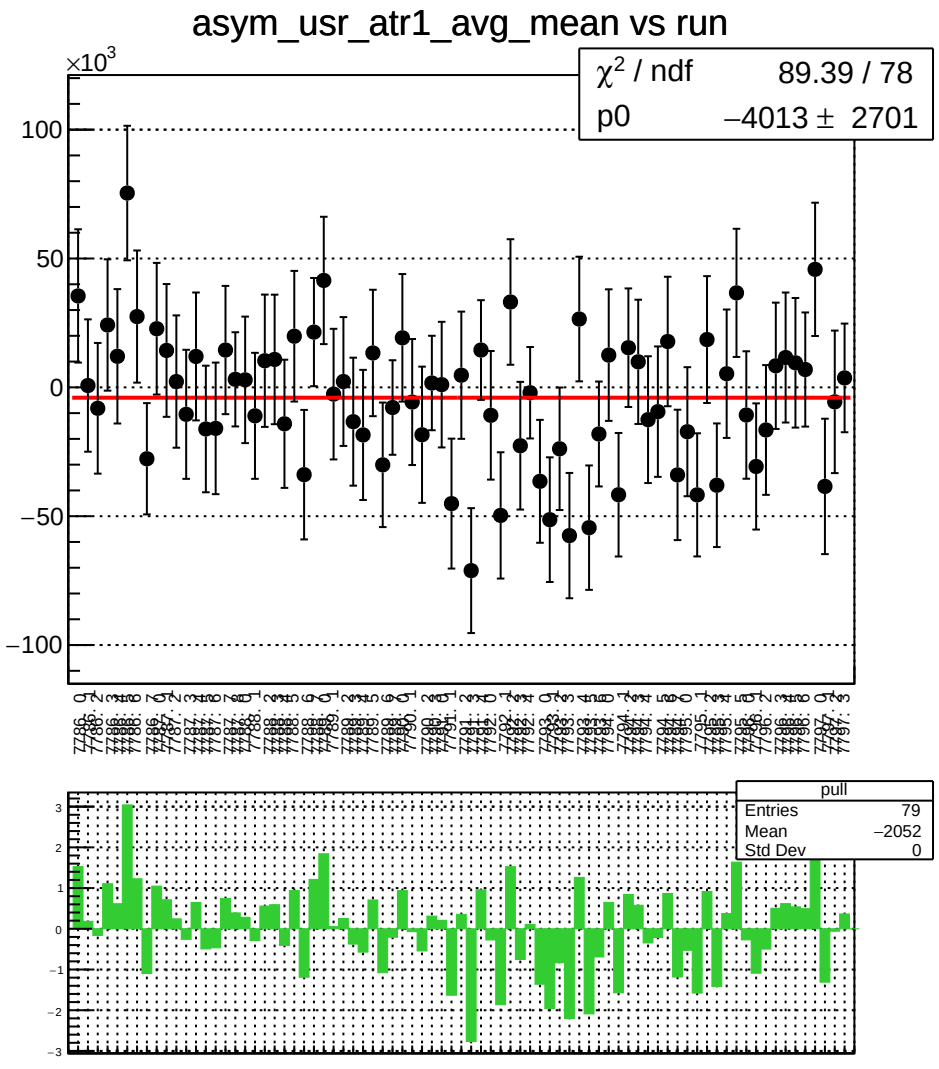

pull1D
Entries 79
Mean −0.0104
Std Dev 0.9763
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

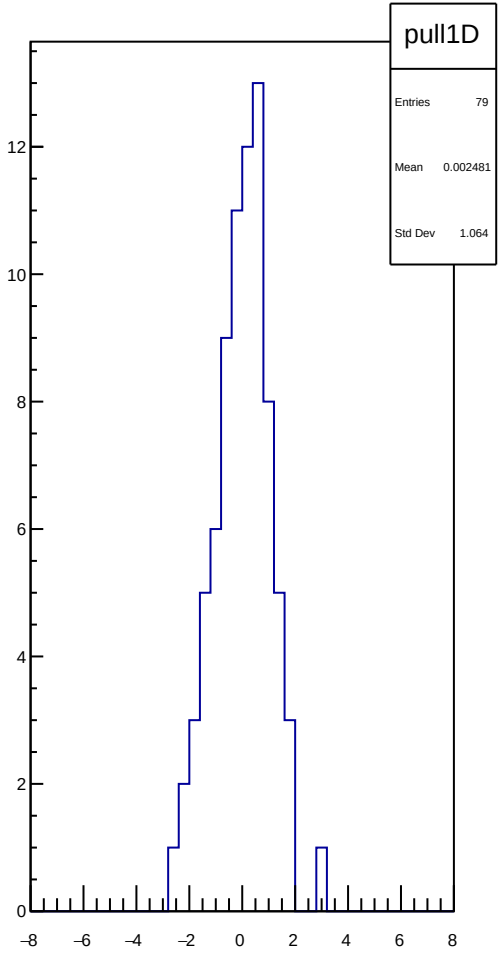

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 76.79 / 78
p0 1617 ± 1.306
1660
1650
1640
1630
1620
1610
1600
1590
1580

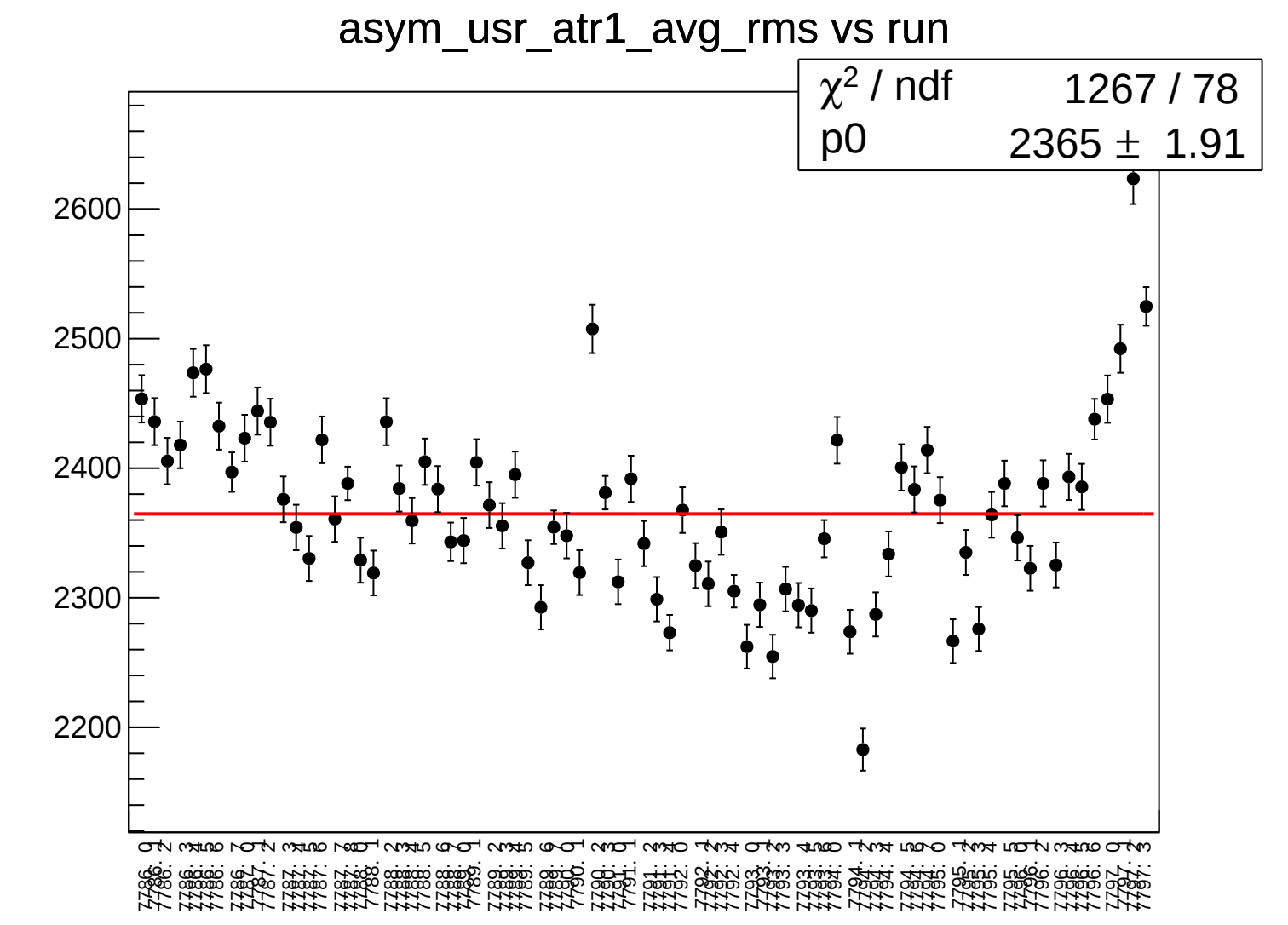

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.58 / 78
p0 106.1 ± 1991
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −351.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

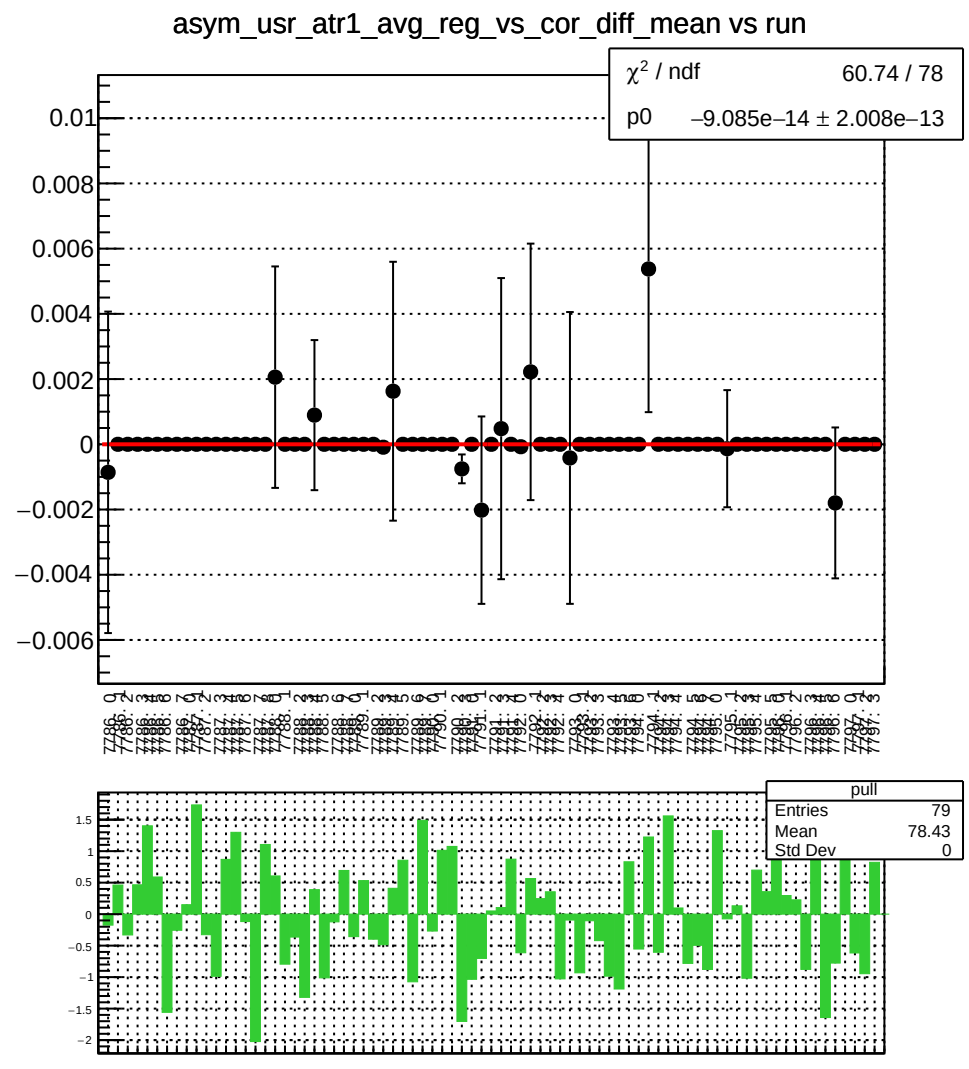

pull1D
Entries 79
Mean −0.01196
Std Dev 0.9845
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

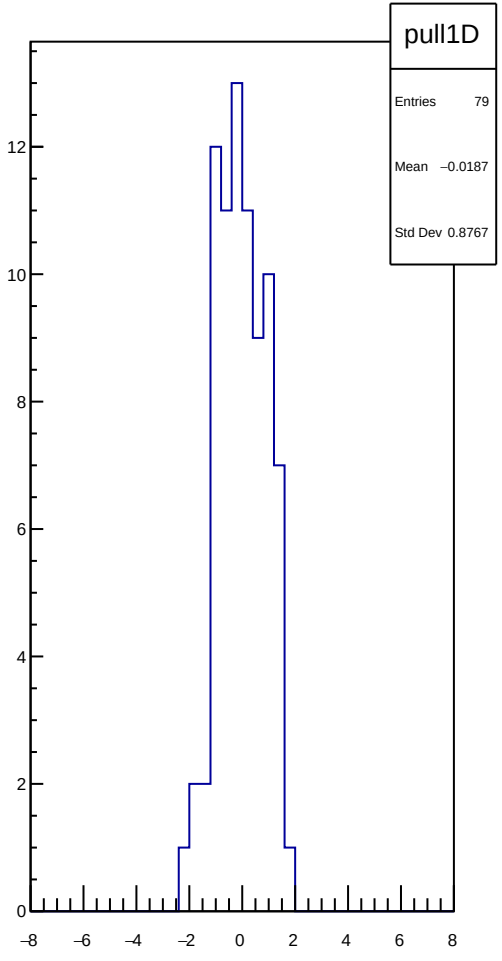

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2310 / 78
p0 1742 ± 1.408
2000
1900
1800
1700
1600

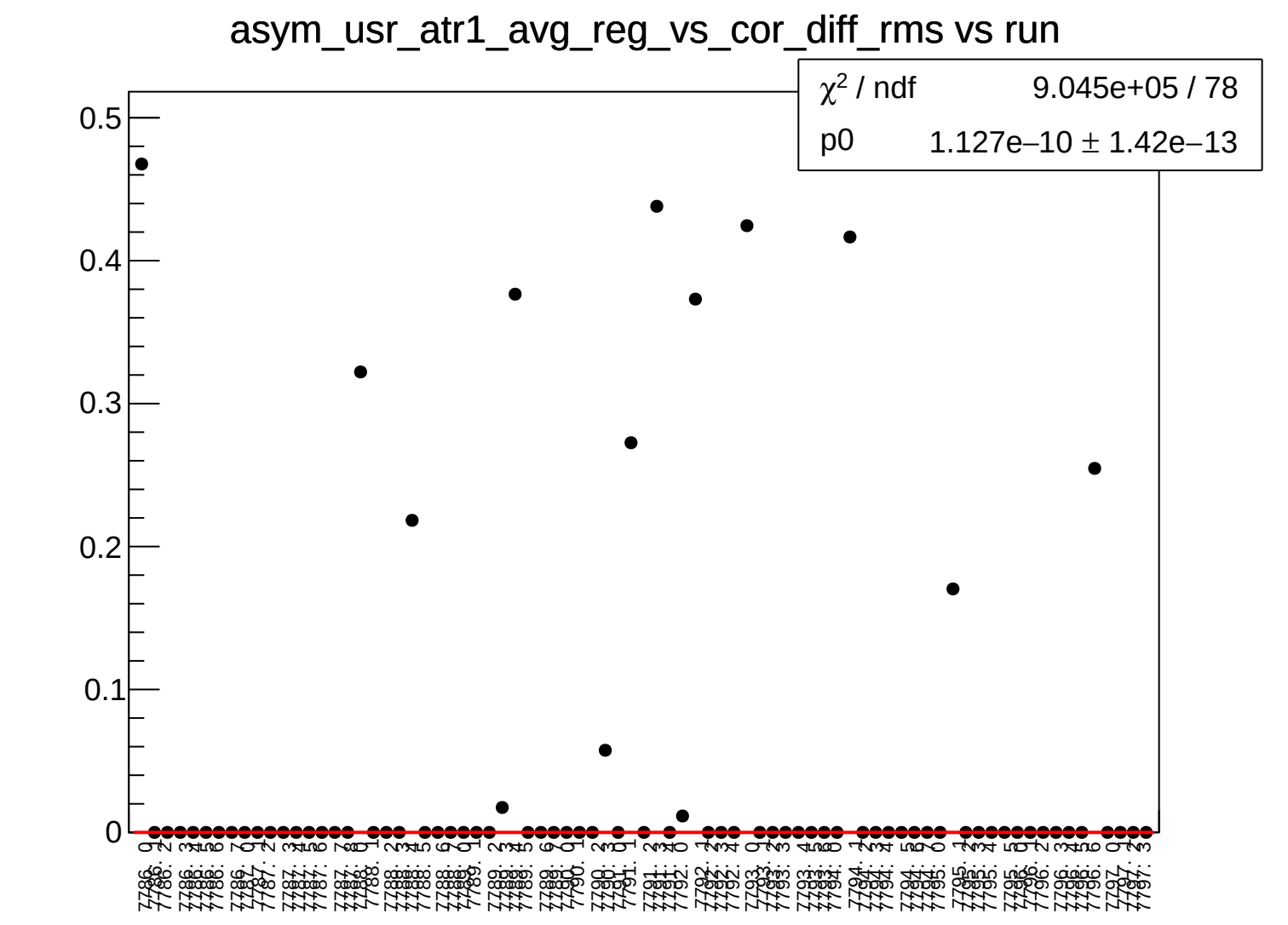

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 89.39 / 78
p0 −4013 ± 2701
100
50
0
−50
−100
pull
Entries 79
Mean −2052
Std Dev 0
3
2
1
0
−1
−2
−3

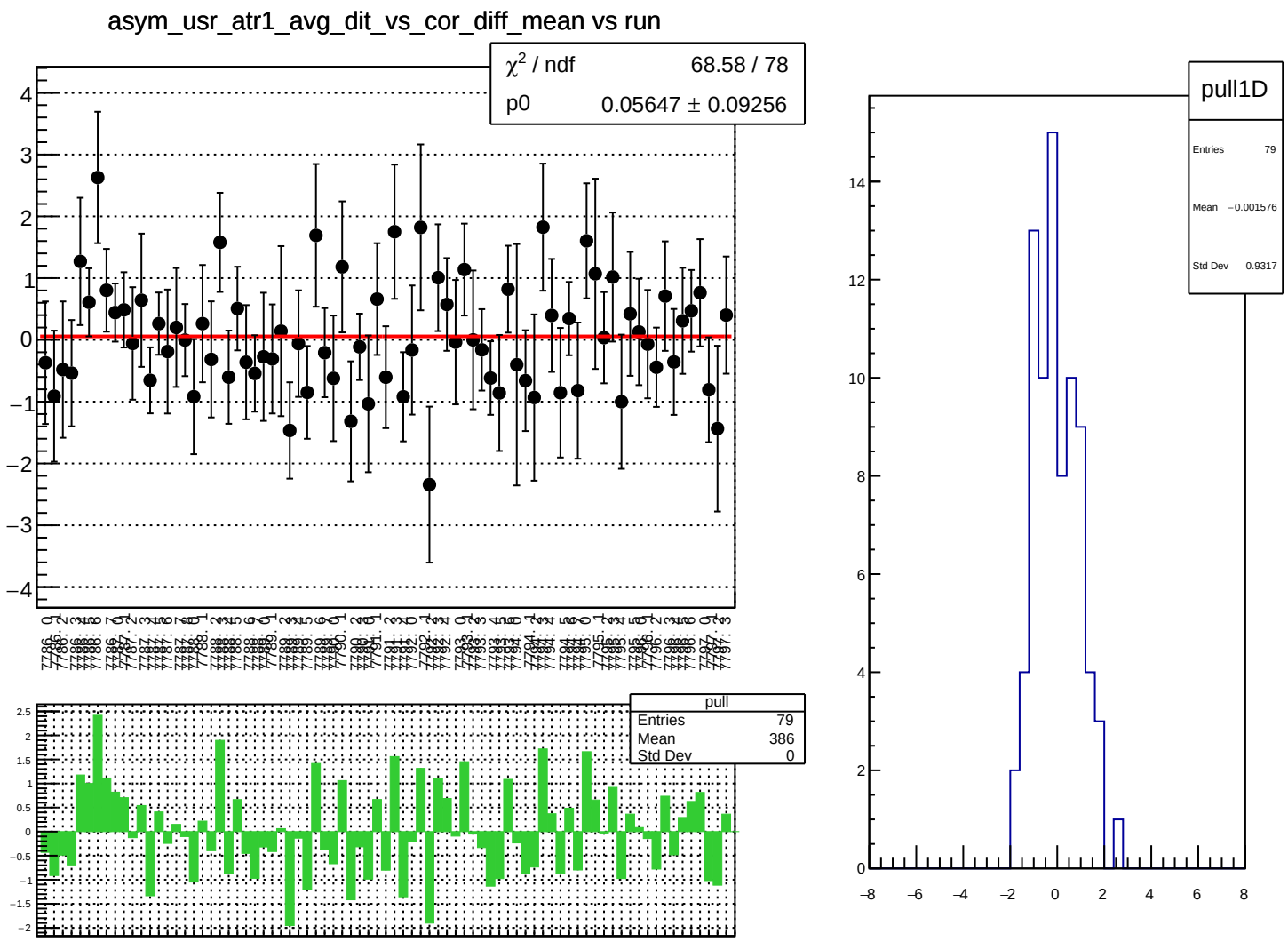

pull1D
Entries 79
Mean 0.002481
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

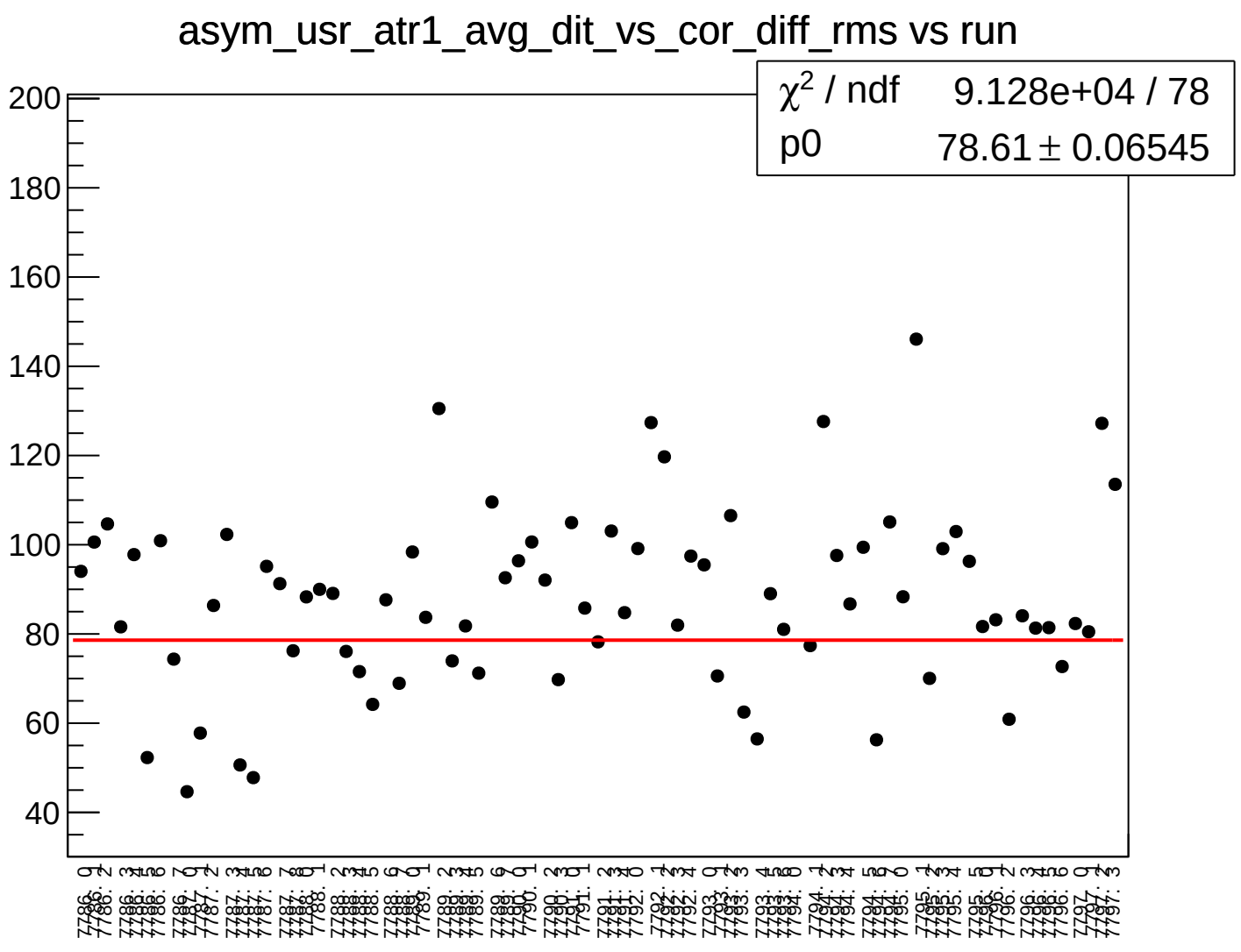

asym_usr_atr1_avg_rms vs run
χ^2 / ndf 1267 / 78
p0 2365 ± 1.91
2600
2500
2400
2300
2200

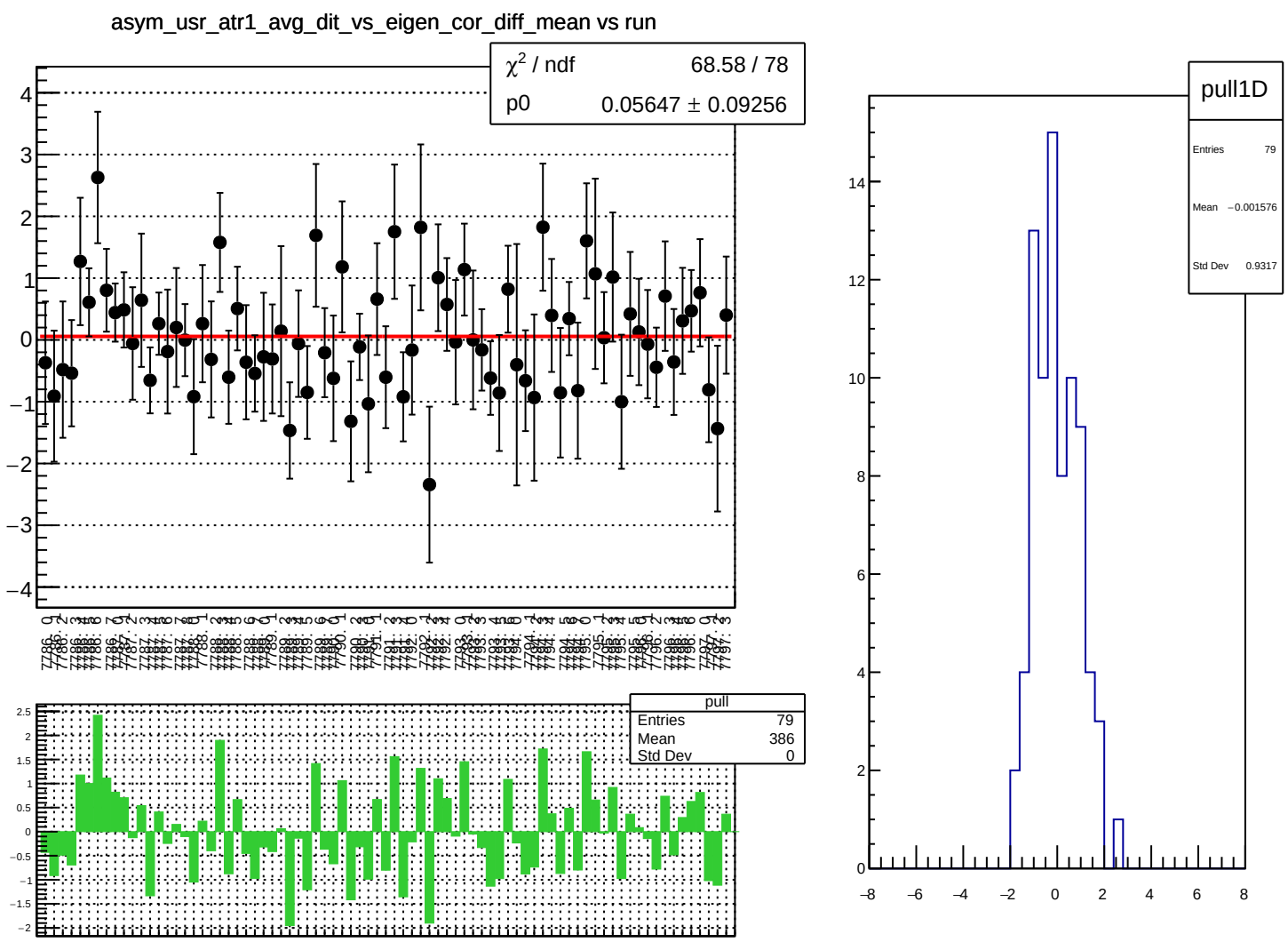

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 60.74 / 78
p0 −9.085e−14 ± 2.008e−13
pull
Entries 79
Mean 78.43
Std Dev 0

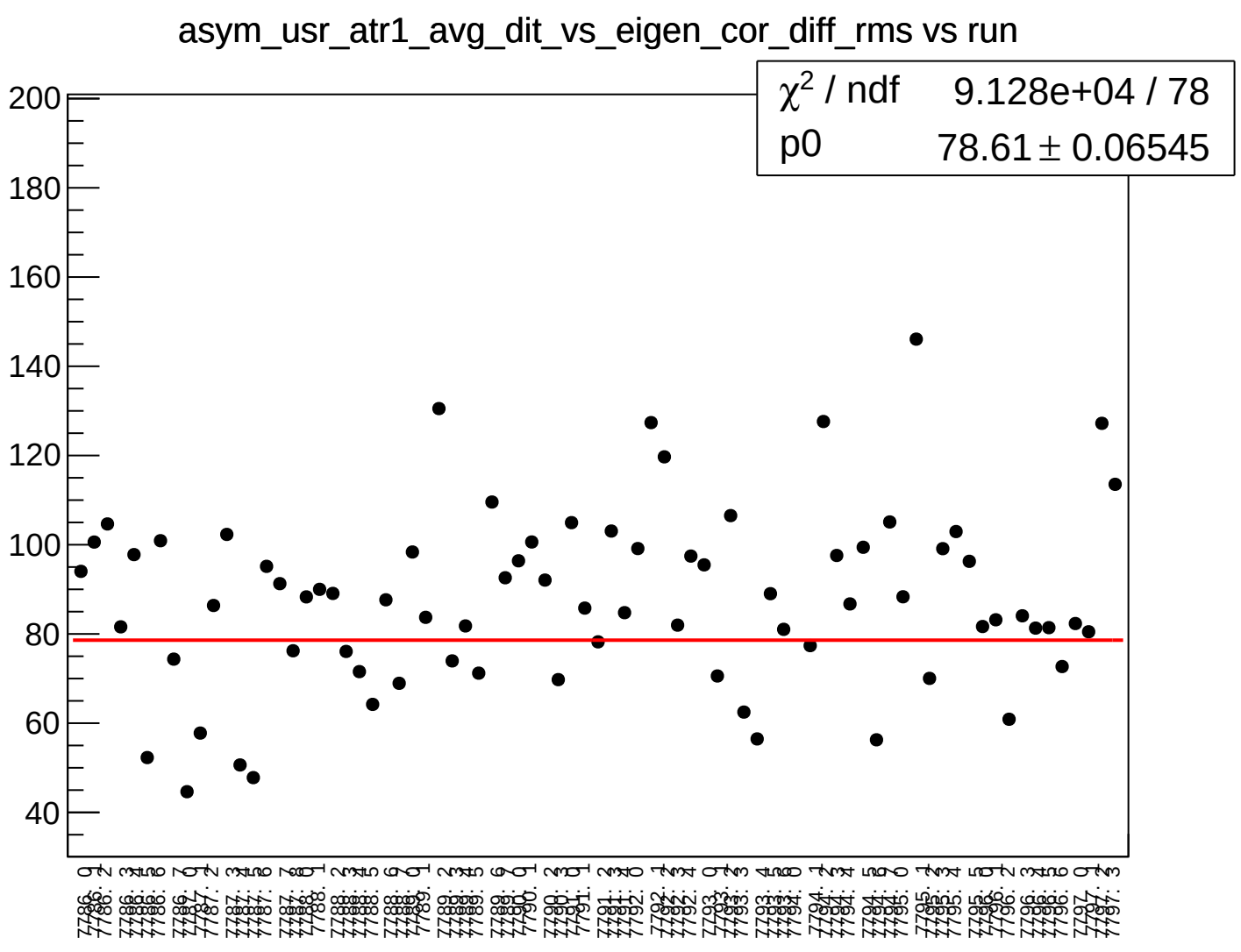

pull1D
Entries 79
Mean −0.0187
Std Dev 0.8767

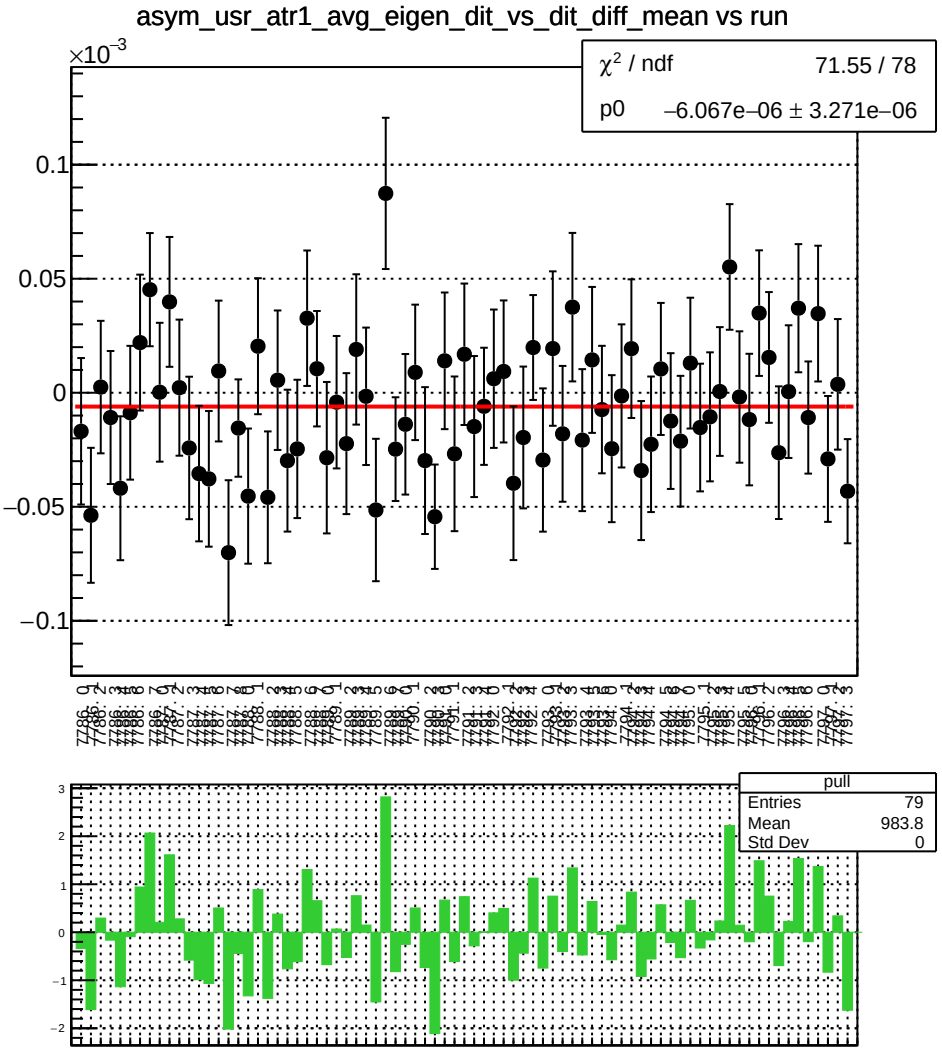

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.045e+05 / 78
p0 1.127e−10 ± 1.42e−13
0.5
0.4
0.3
0.2
0.1
0

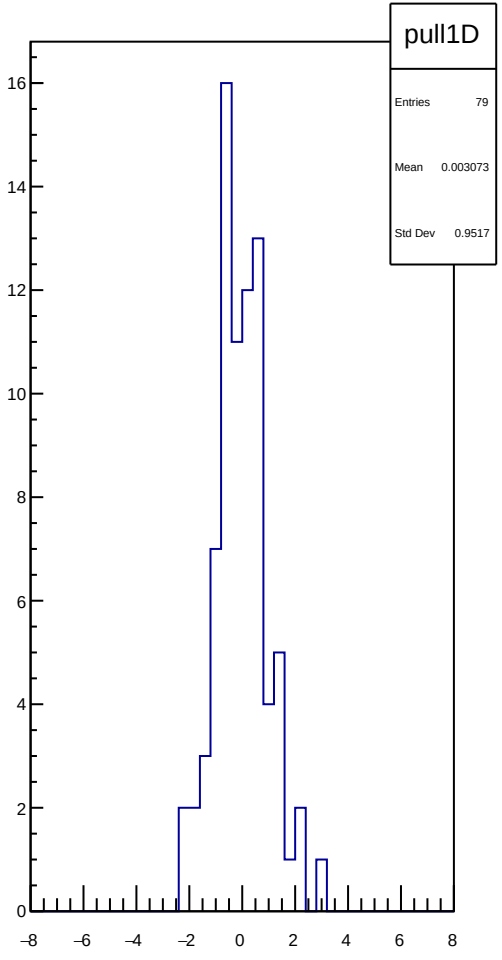

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.58 / 78
p0 0.05647 ± 0.09256
pull
Entries 79
Mean 386
Std Dev 0
pull1D
Entries 79
Mean −0.001576
Std Dev 0.9317

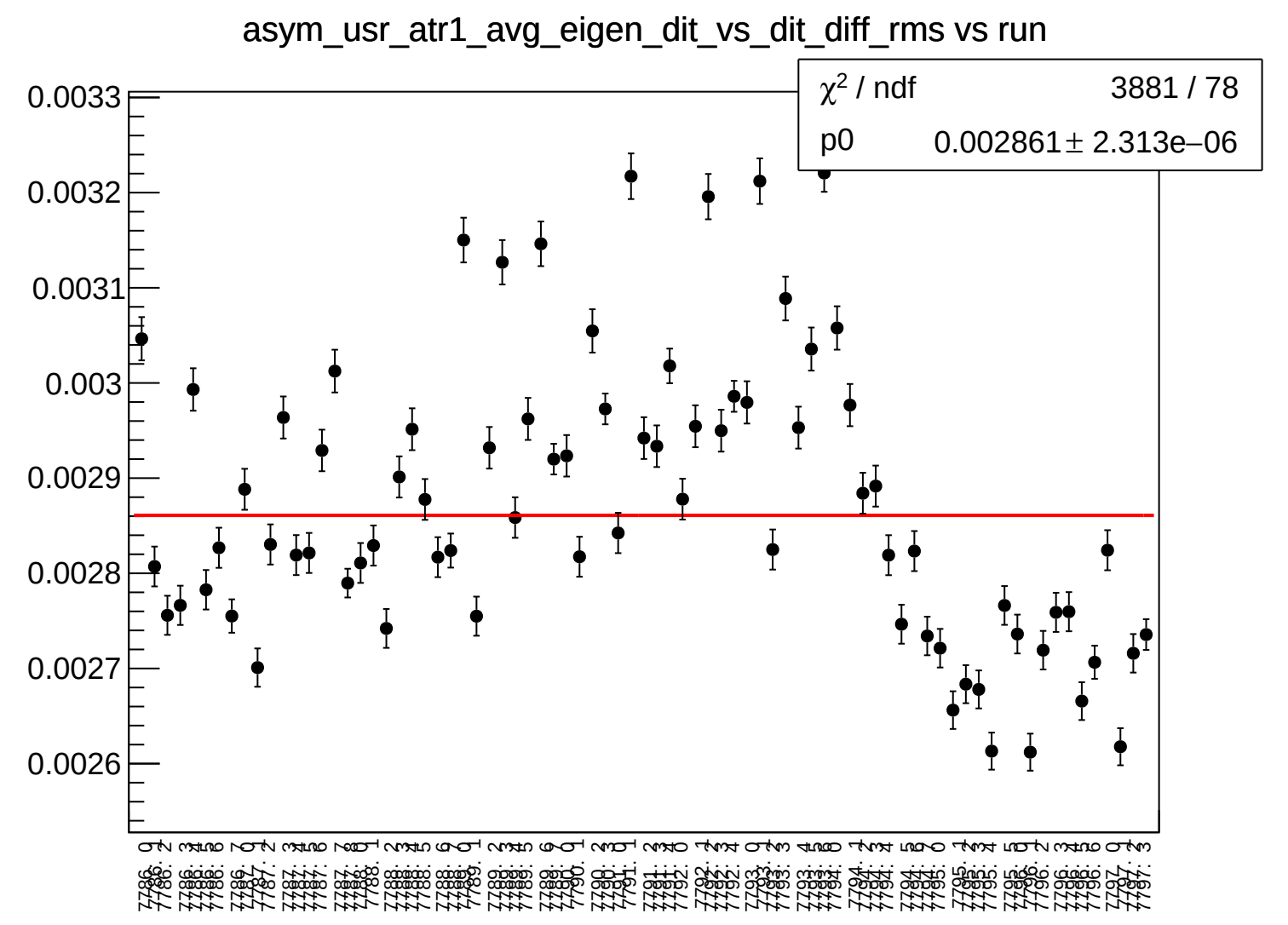

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.128e+04 / 78
p0 78.61 ± 0.06545
200
180
160
140
120
100
80
60
40

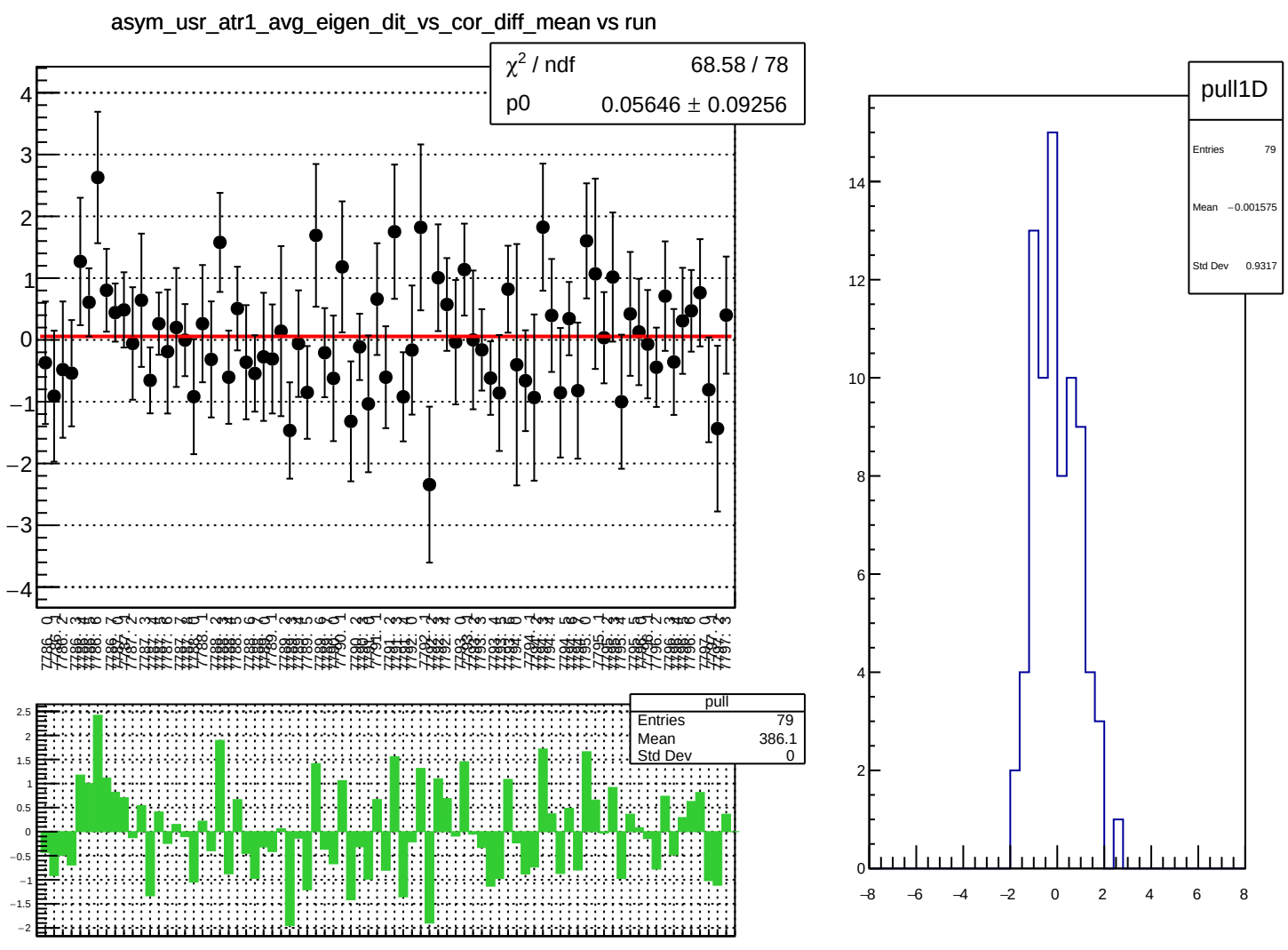

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.58 / 78
p0 0.05647 ± 0.09256
pull
Entries 79
Mean 386
Std Dev 0
pull1D
Entries 79
Mean −0.001576
Std Dev 0.9317

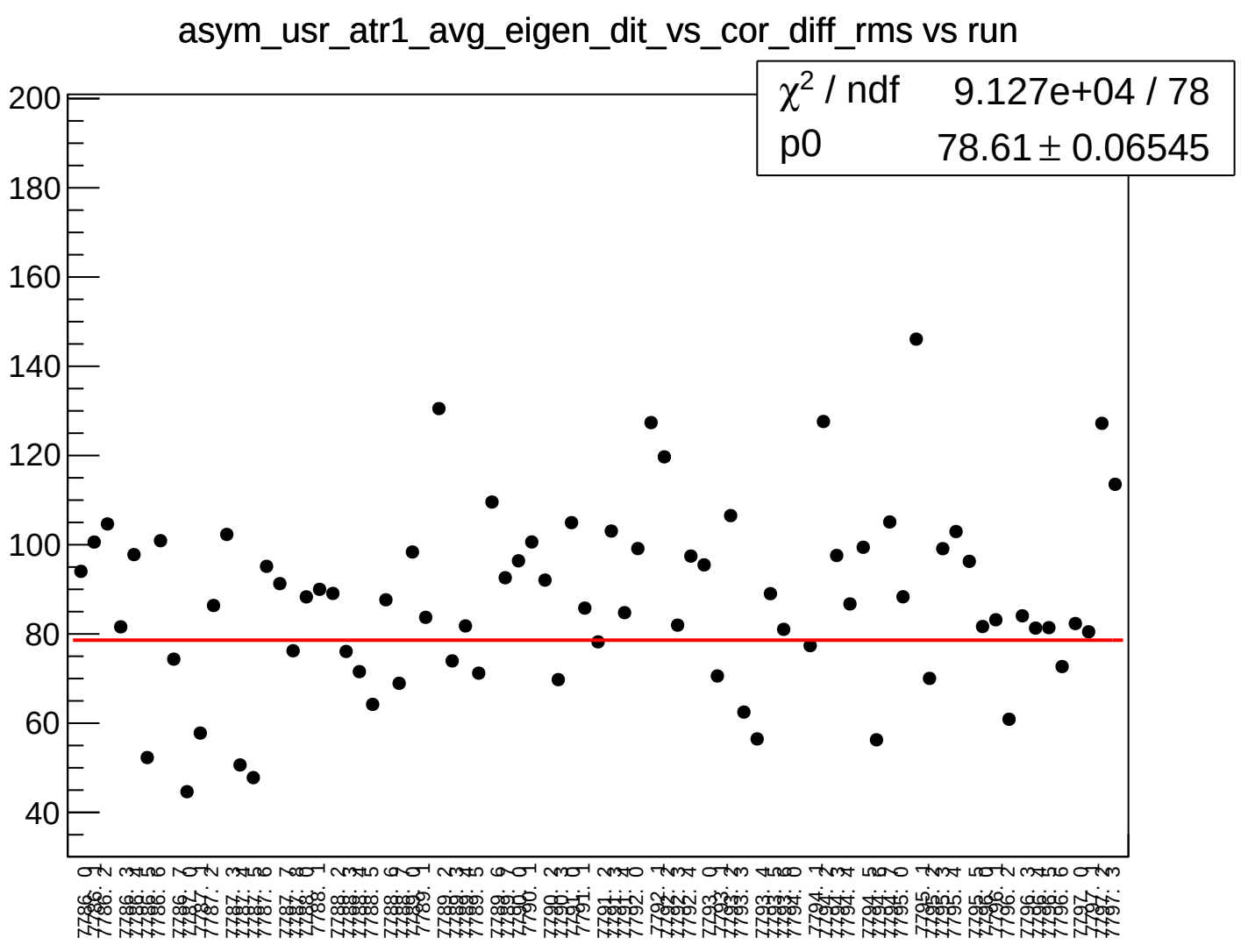

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.128e+04 / 78
p0 78.61 ± 0.06545
200
180
160
140
120
100
80
60
40

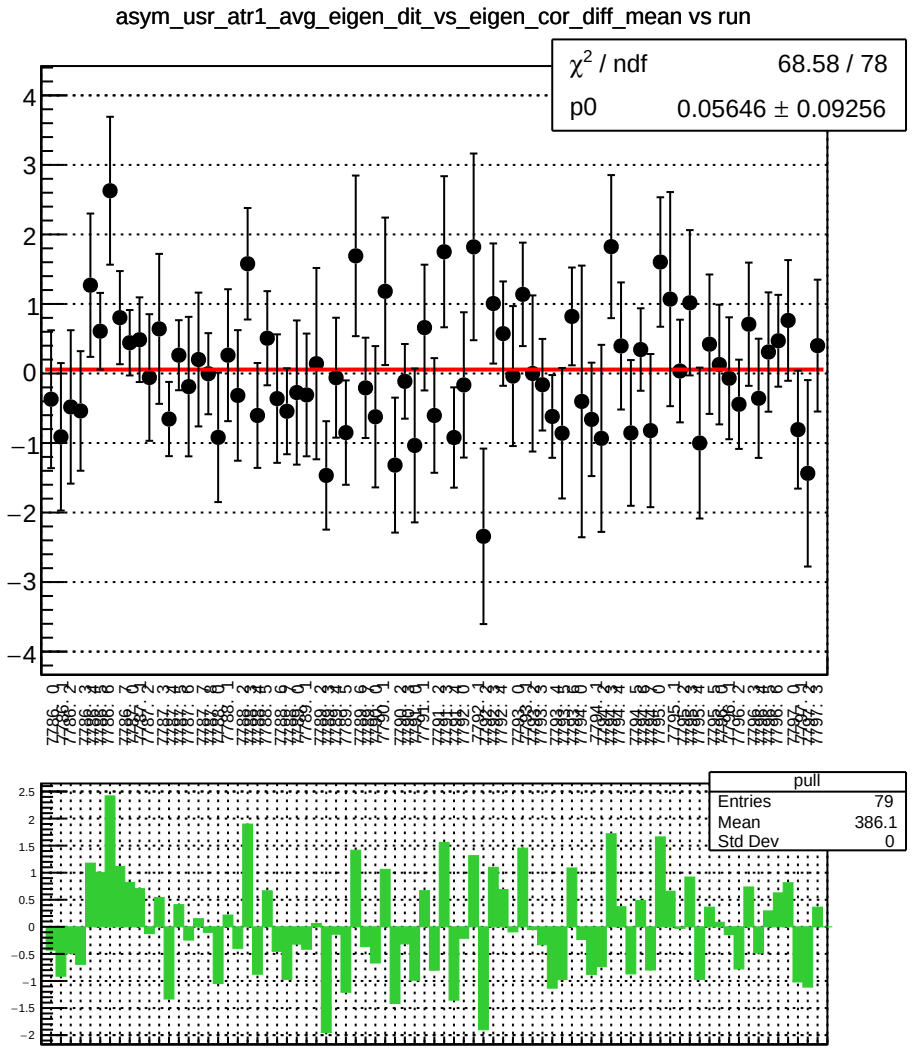

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.55 / 78
p0 −6.067e−06 ± 3.271e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 79
Mean 983.8
Std Dev 0
3
2
1
0
−1
−2

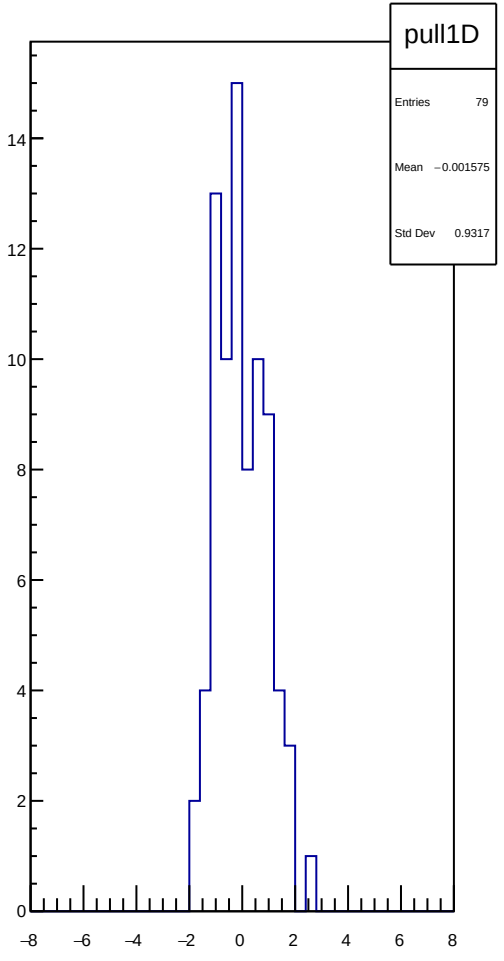

pull1D
Entries 79
Mean 0.003073
Std Dev 0.9517
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

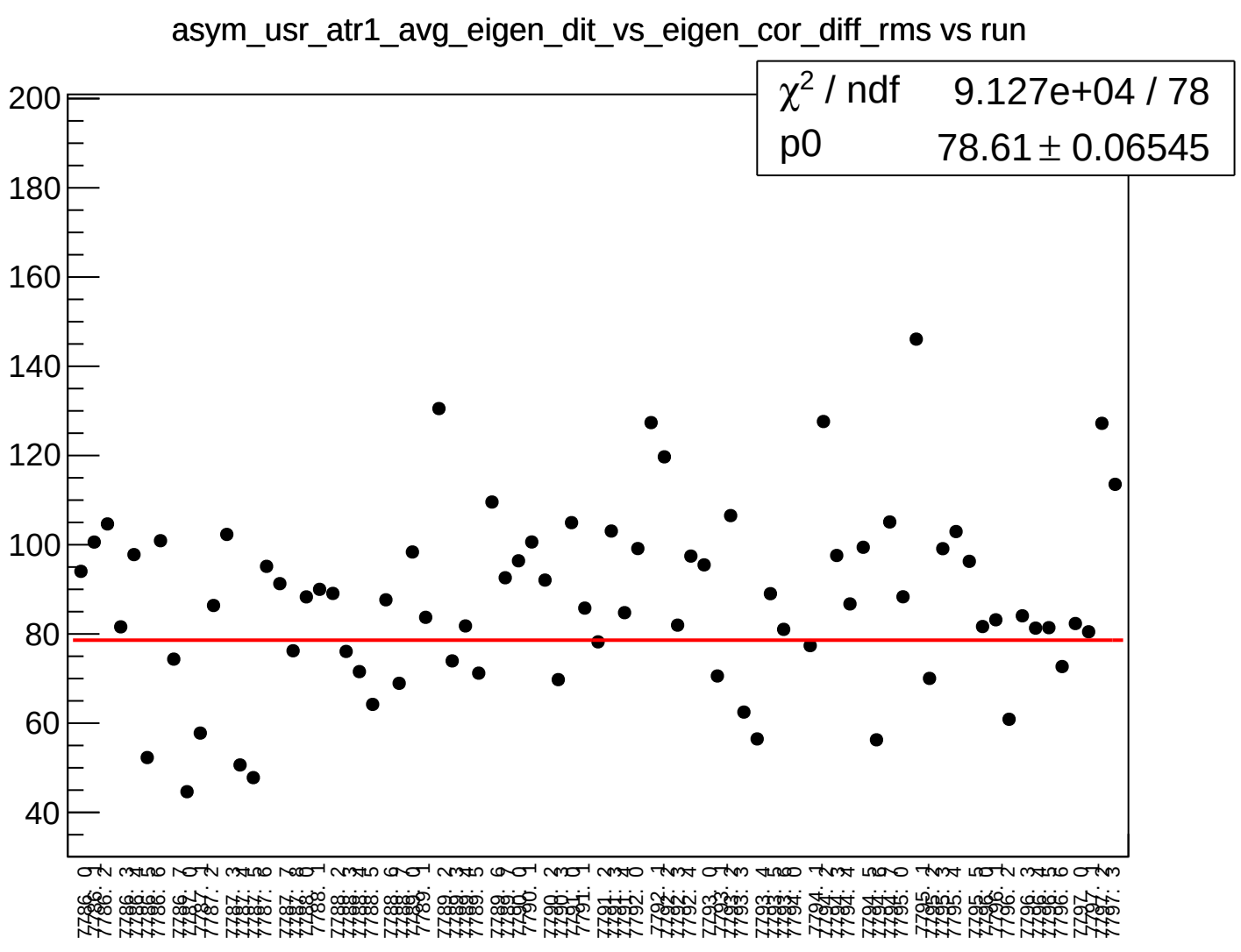

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3881 / 78
p0 0.002861 ± 2.313e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026

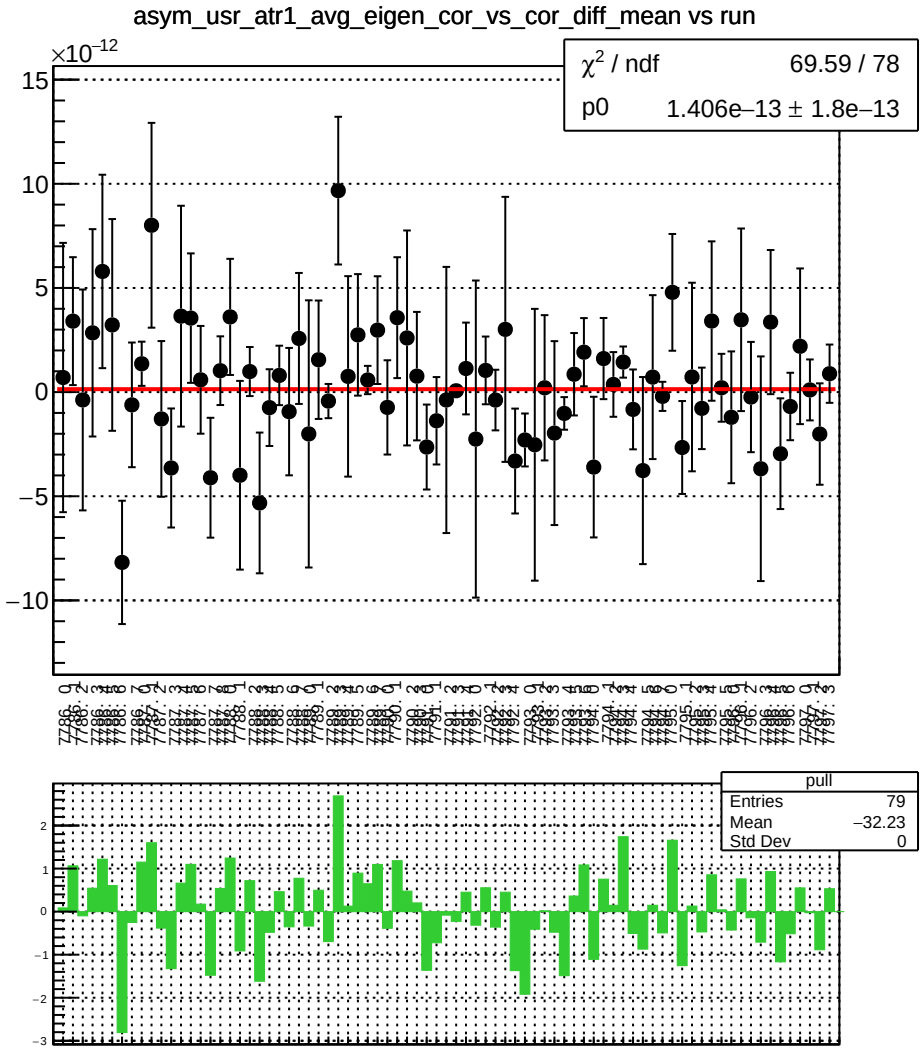

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.58 / 78
p0 0.05646 ± 0.09256
pull
Entries 79
Mean 386.1
Std Dev 0
pull1D
Entries 79
Mean −0.001575
Std Dev 0.9317

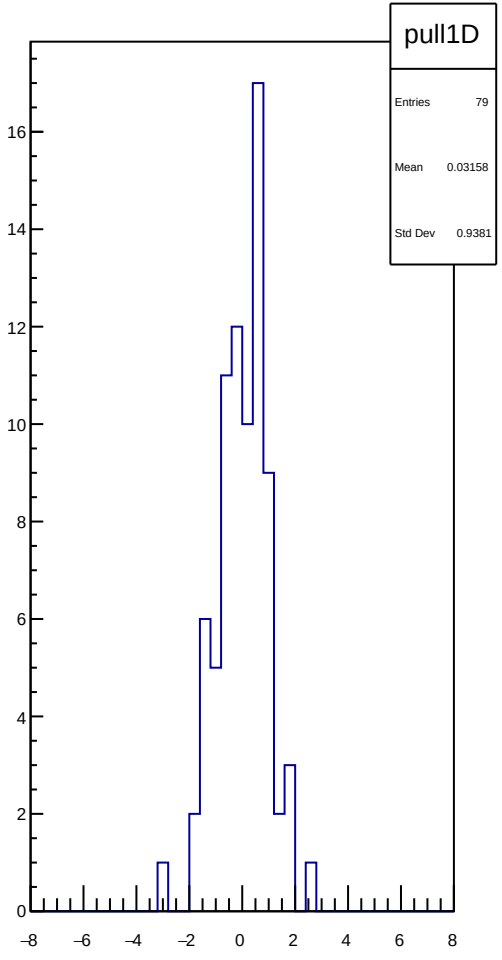

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.127e+04 / 78
p0 78.61 ± 0.06545
200
180
160
140
120
100
80
60
40

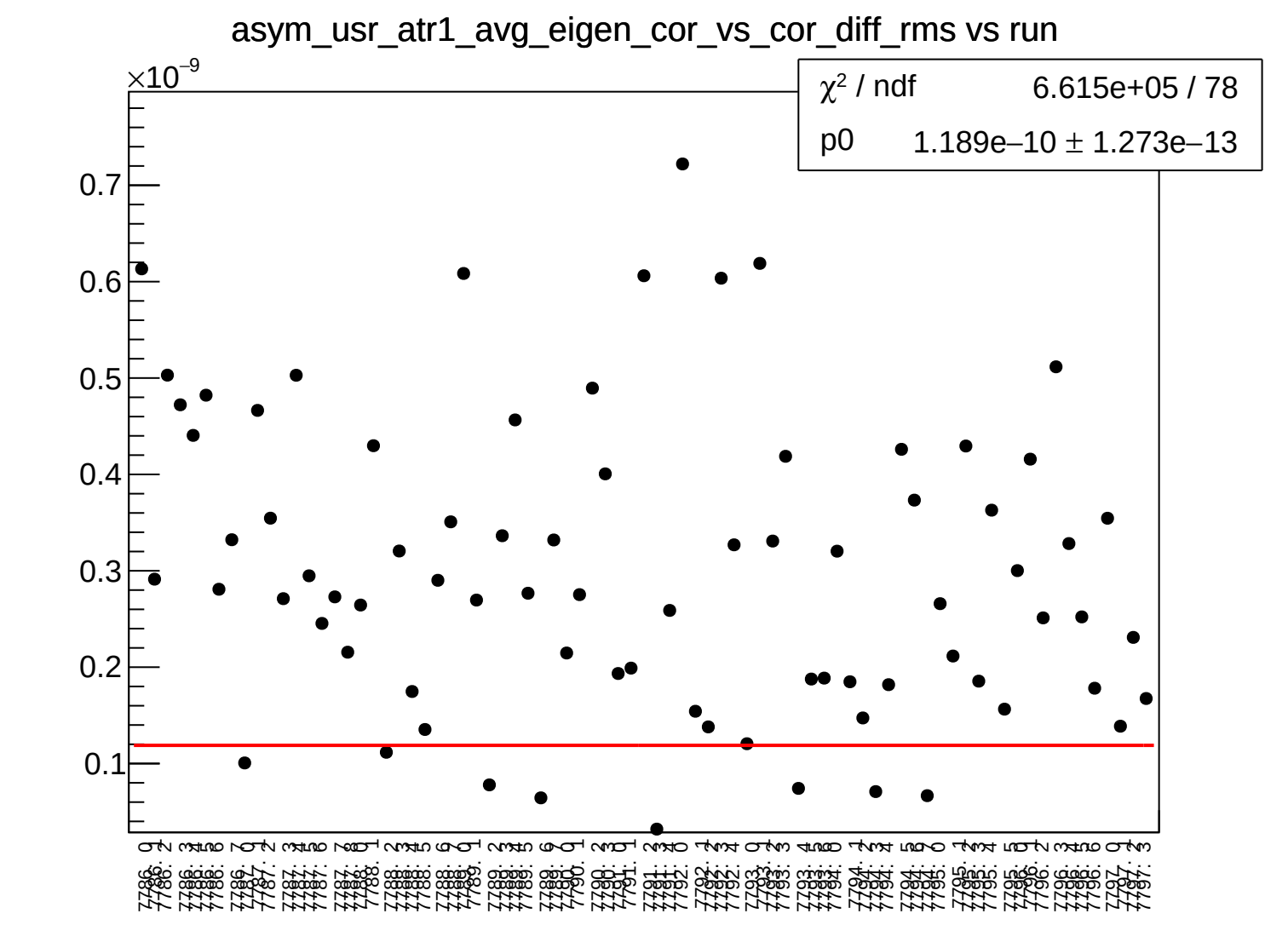

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.58 / 78
p0 0.05646 ± 0.09256
pull
Entries 79
Mean 386.1
Std Dev 0

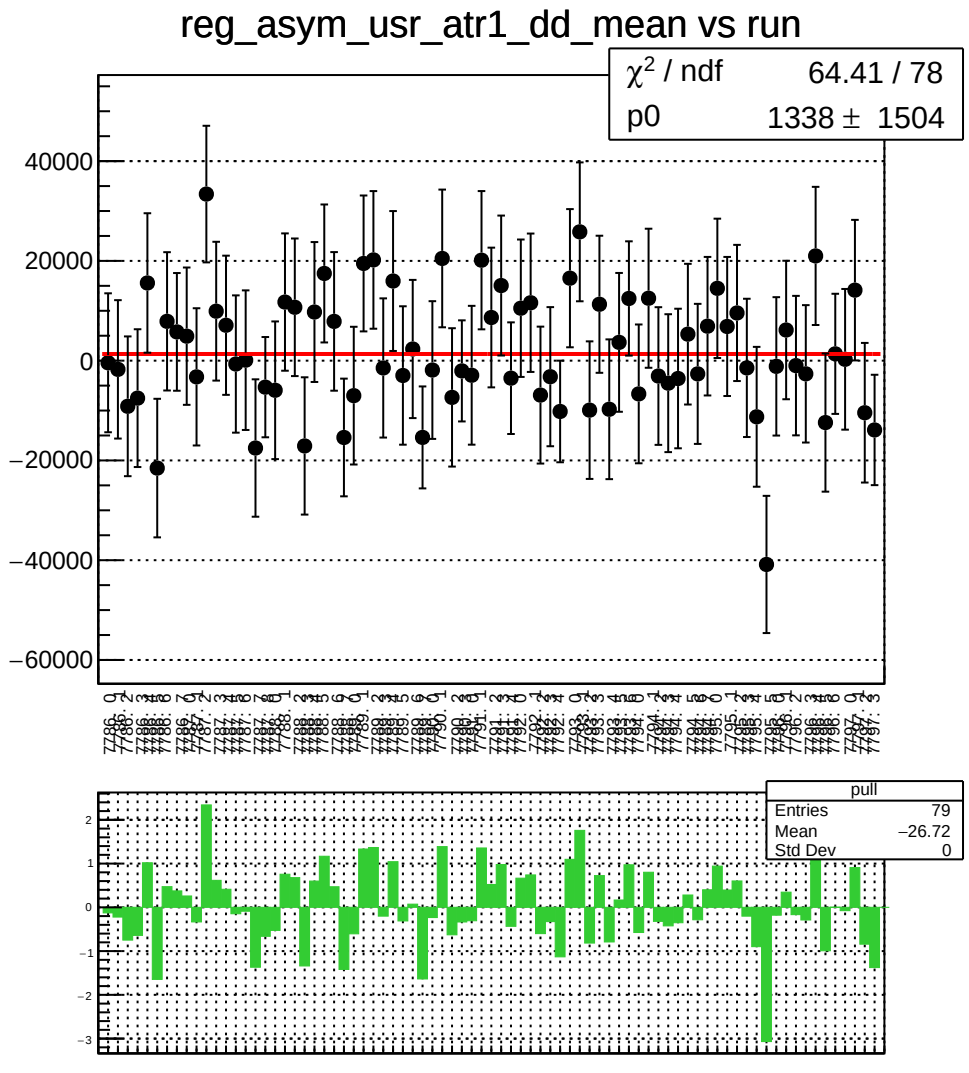

pull1D
Entries 79
Mean −0.001575
Std Dev 0.9317

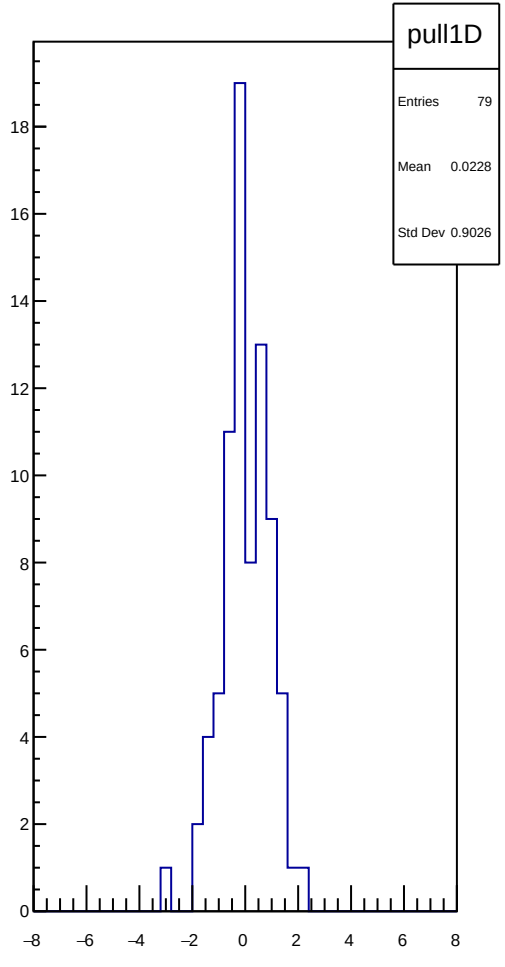

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.127e+04 / 78
p0 78.61 ± 0.06545
200
180
160
140
120
100
80
60
40

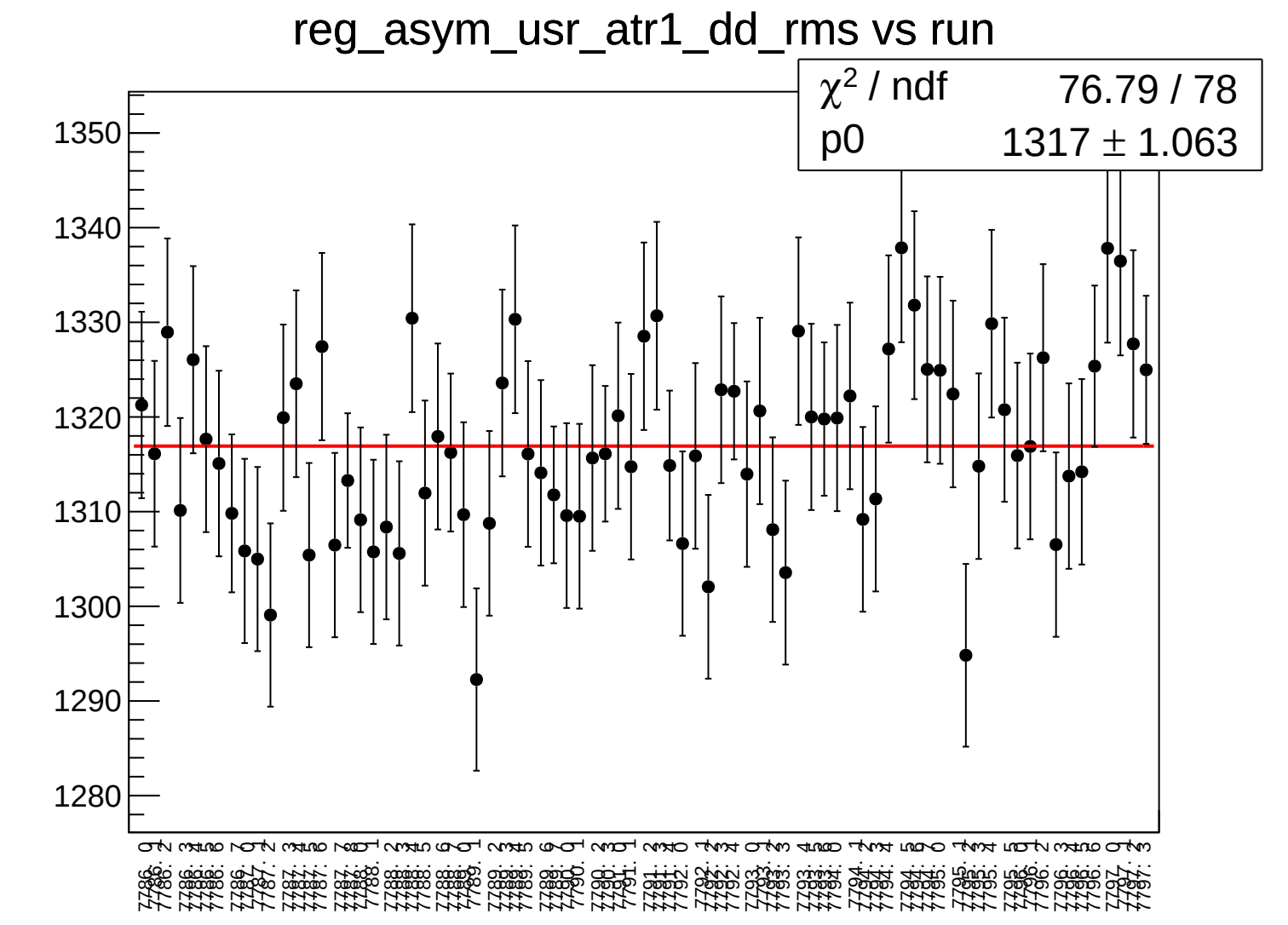

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.59 / 78
p0 1.406e–13 ± 1.8e–13
pull
Entries 79
Mean –32.23
Std Dev 0

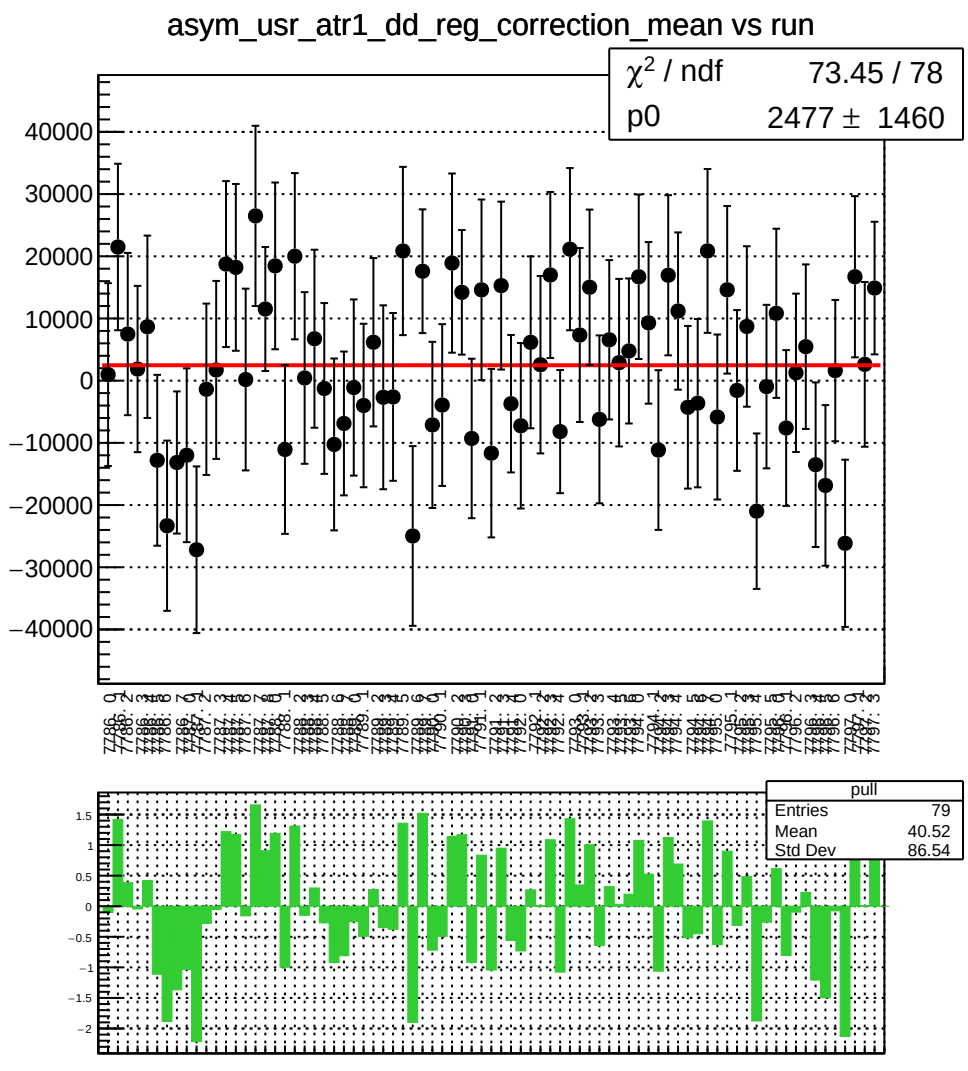

pull1D
Entries 79
Mean 0.03158
Std Dev 0.9381

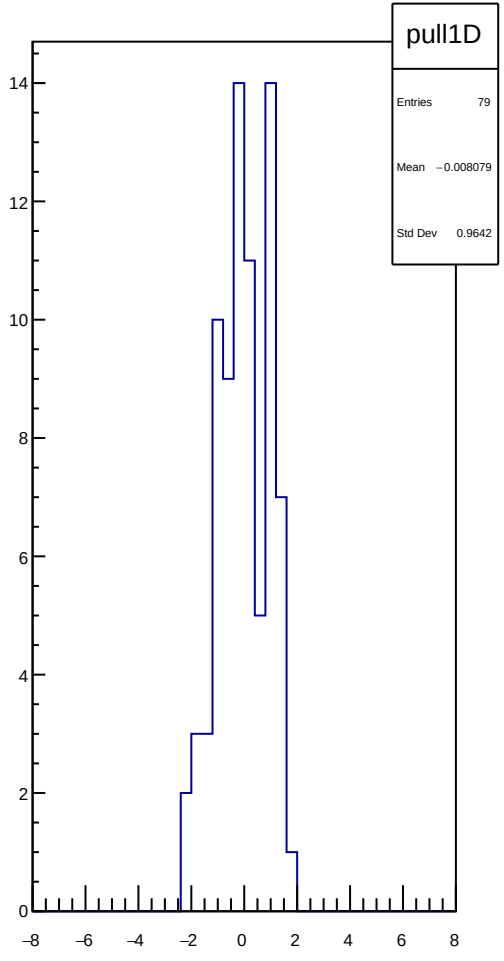

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.615e+05 / 78
p0 1.189e−10 ± 1.273e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

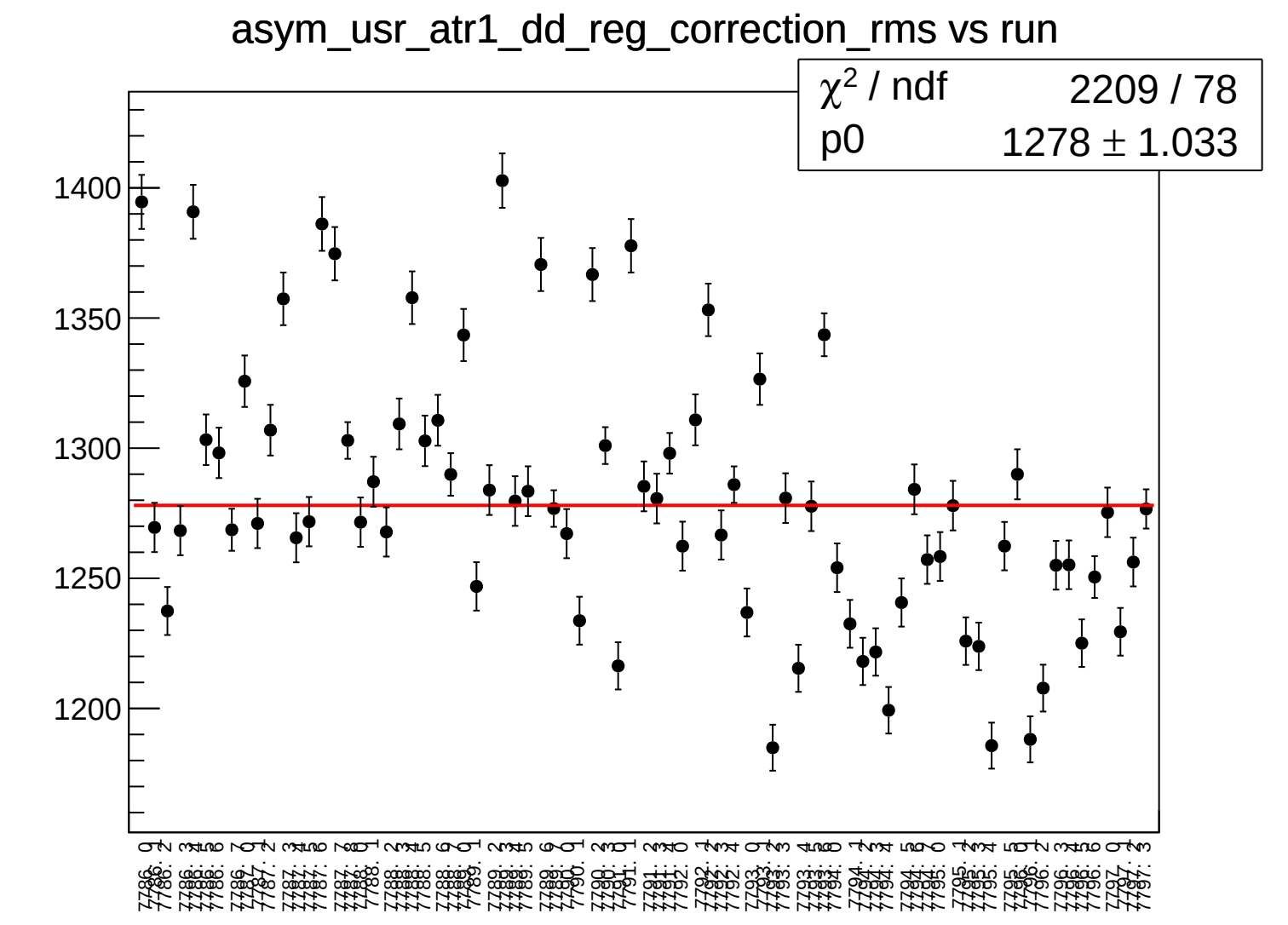

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 64.41 / 78
p0 1338 ± 1504
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −26.72
Std Dev 0
2
1
0
−1
−2
−3

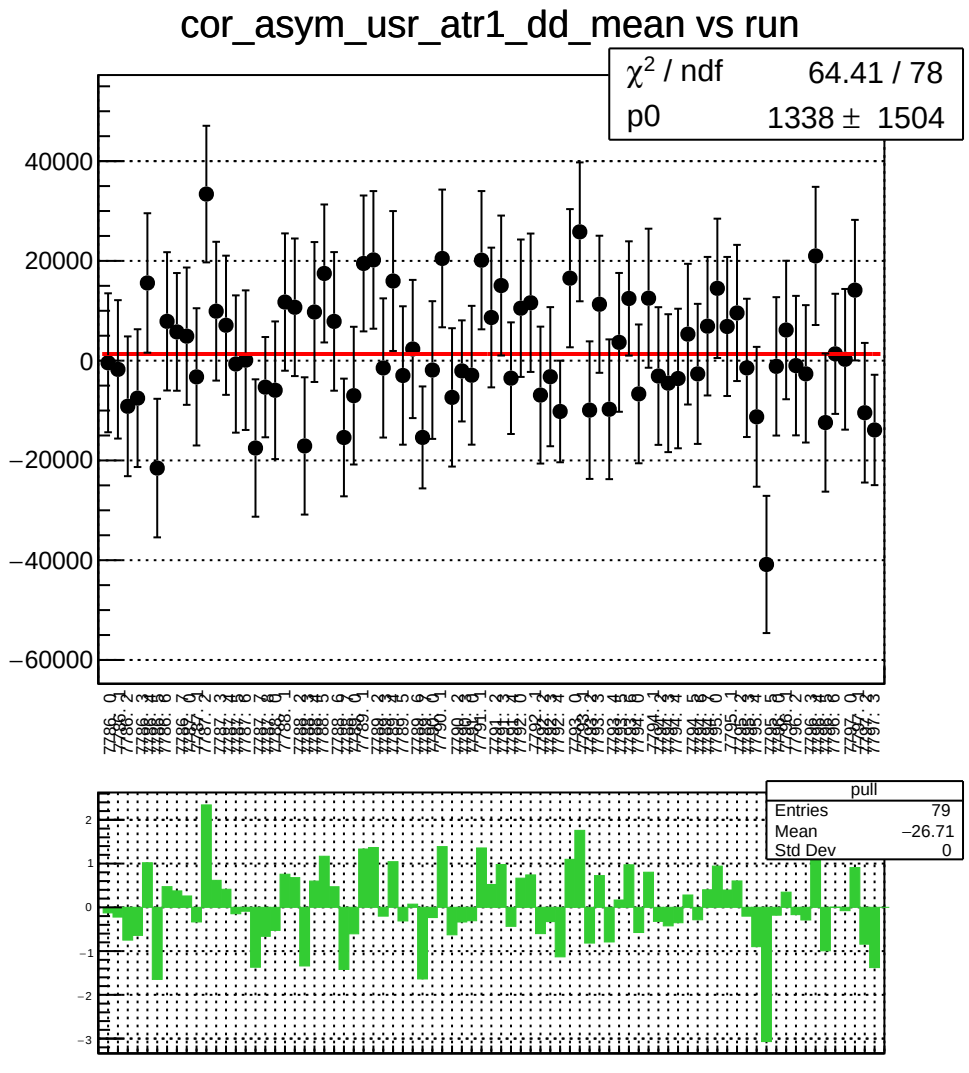

pull1D
Entries 79
Mean 0.0228
Std Dev 0.9026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

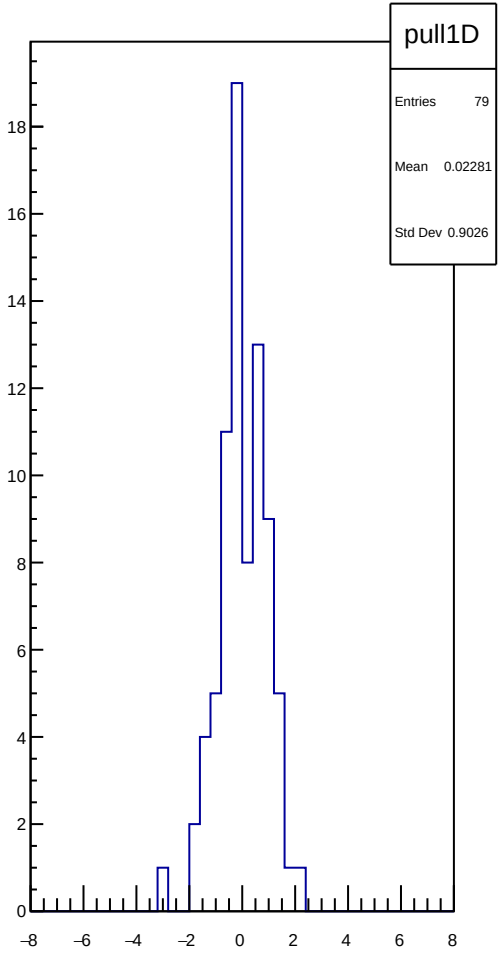

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 76.79 / 78
p0 1317 ± 1.063
1350
1340
1330
1320
1310
1300
1290
1280

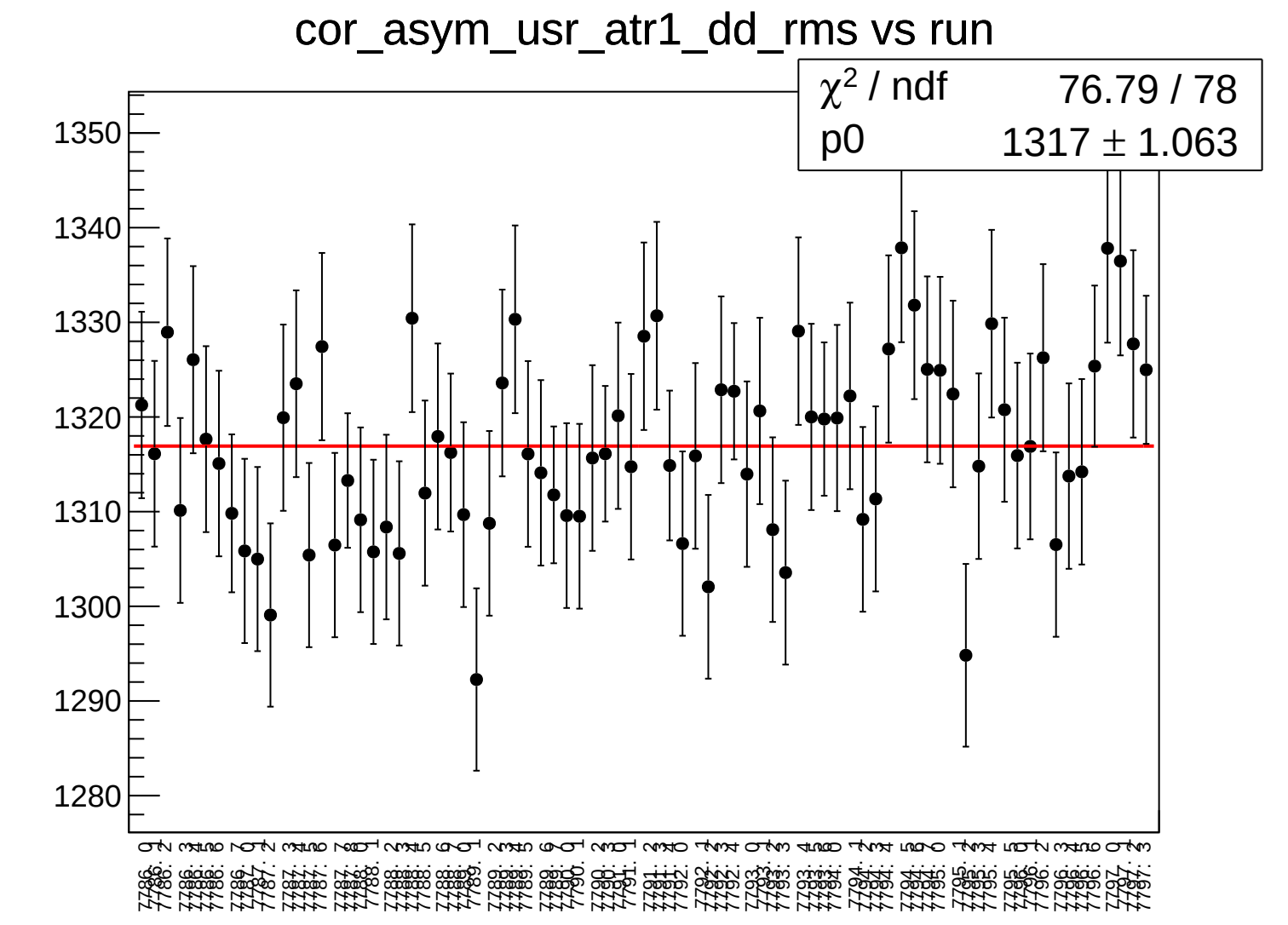

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 73.45 / 78
p0 2477 ± 1460
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 79
Mean 40.52
Std Dev 86.54
1.5
1
0.5
0
−0.5
−1
−1.5
−2

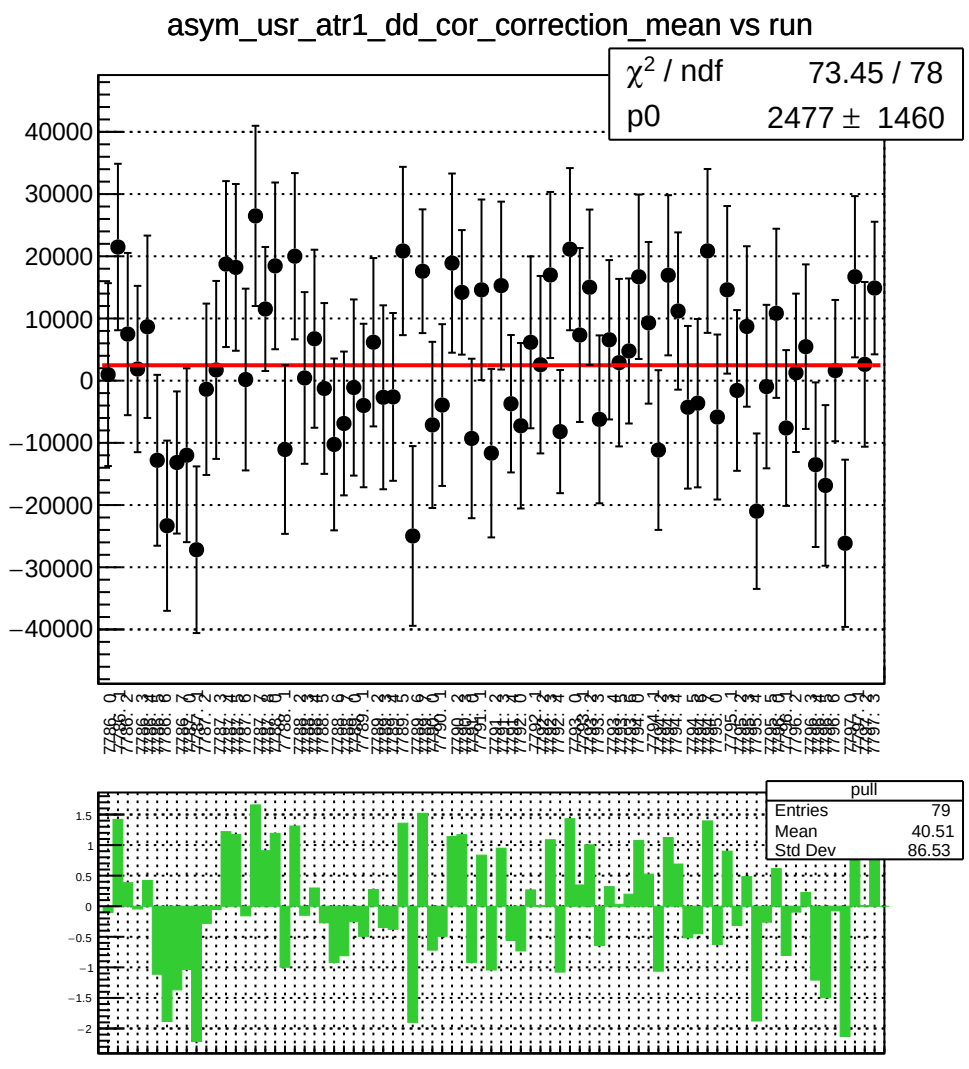

pull1D
Entries 79
Mean −0.008079
Std Dev 0.9642
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

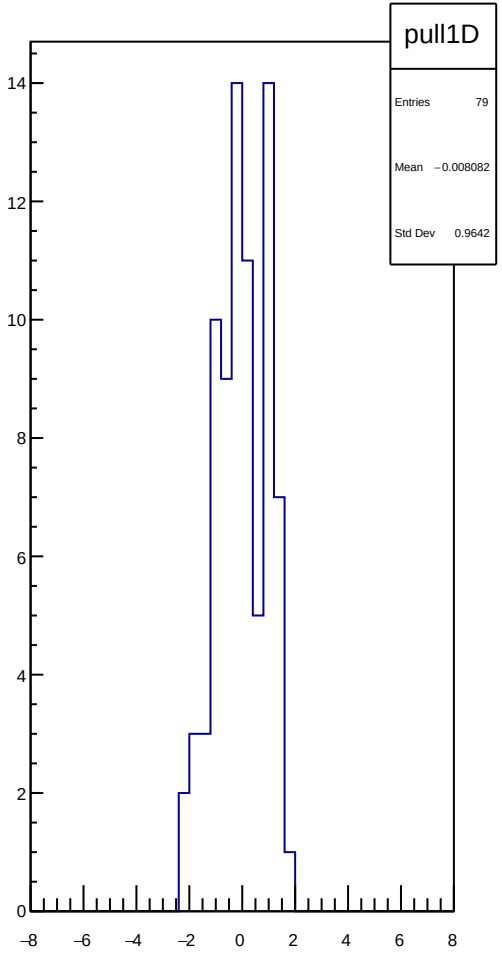

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 2209 / 78
p0 1278 ± 1.033
1400
1350
1300
1250
1200

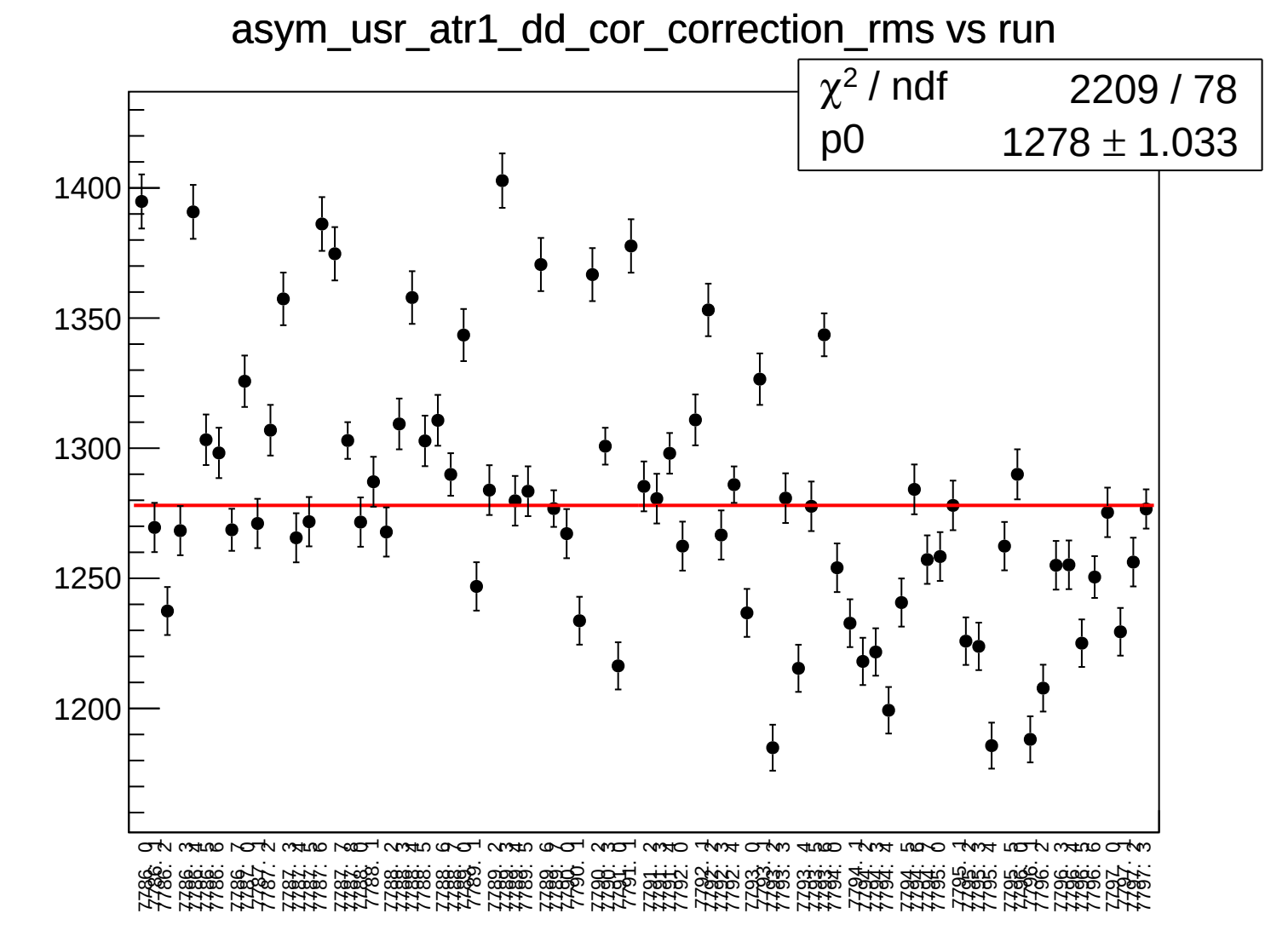

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 64.41 / 78
p0 1338 ± 1504
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −26.71
Std Dev 0
2
1
0
−1
−2
−3

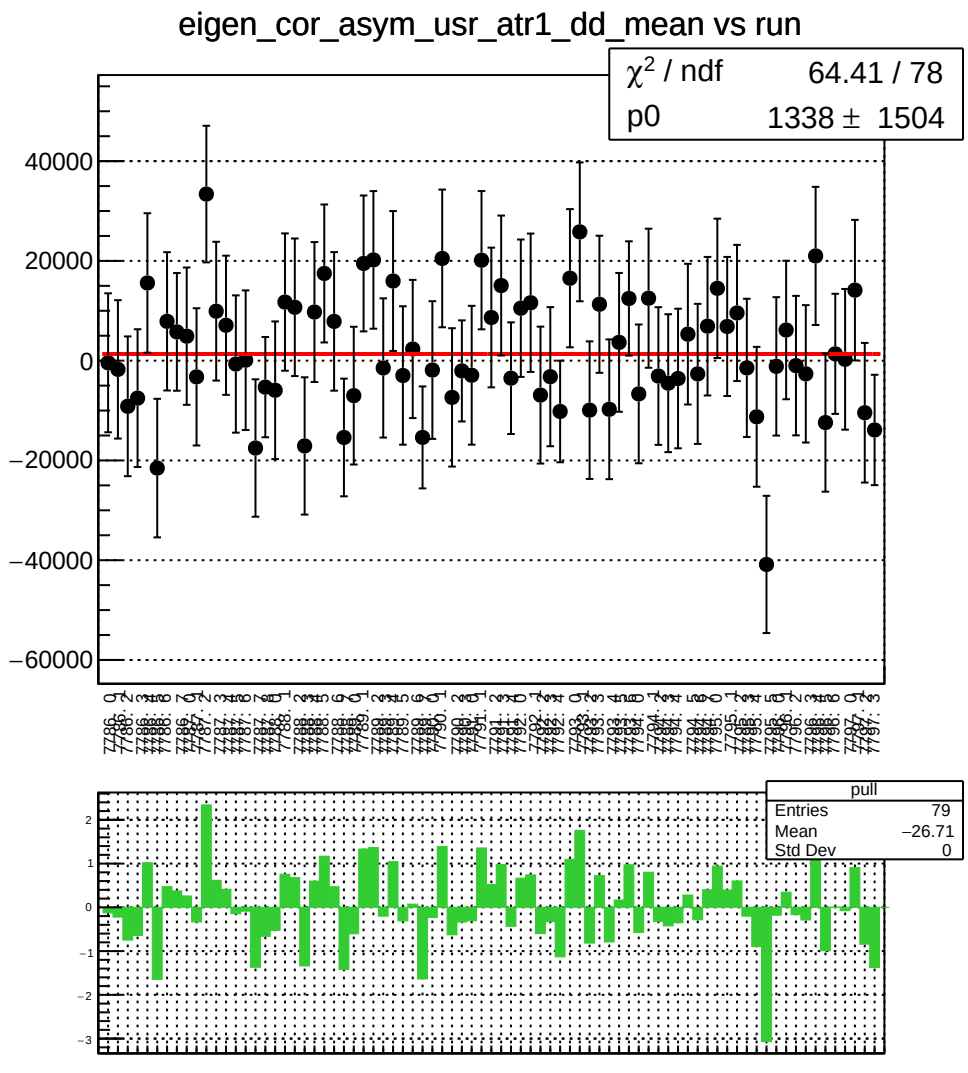

pull1D
Entries 79
Mean 0.02281
Std Dev 0.9026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

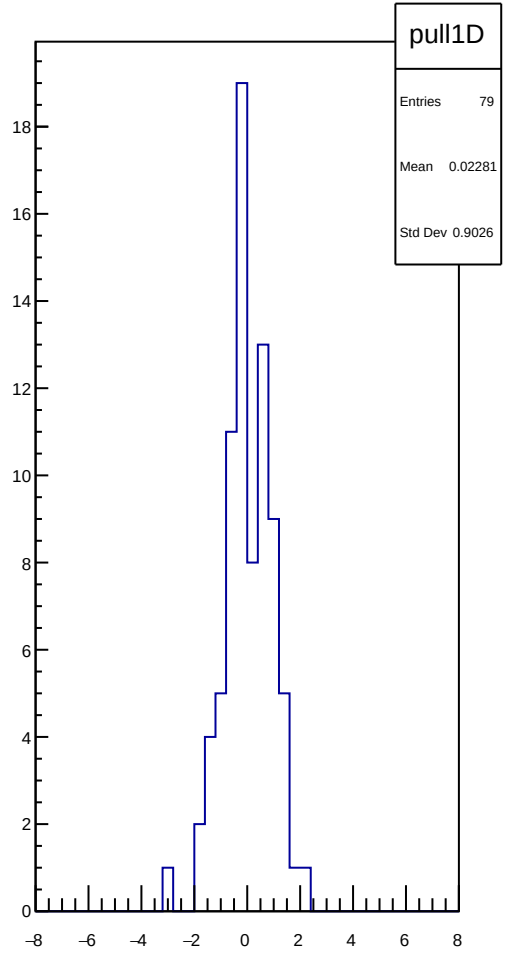

cor_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 76.79 / 78
p0 1317 ± 1.063
1350
1340
1330
1320
1310
1300
1290
1280

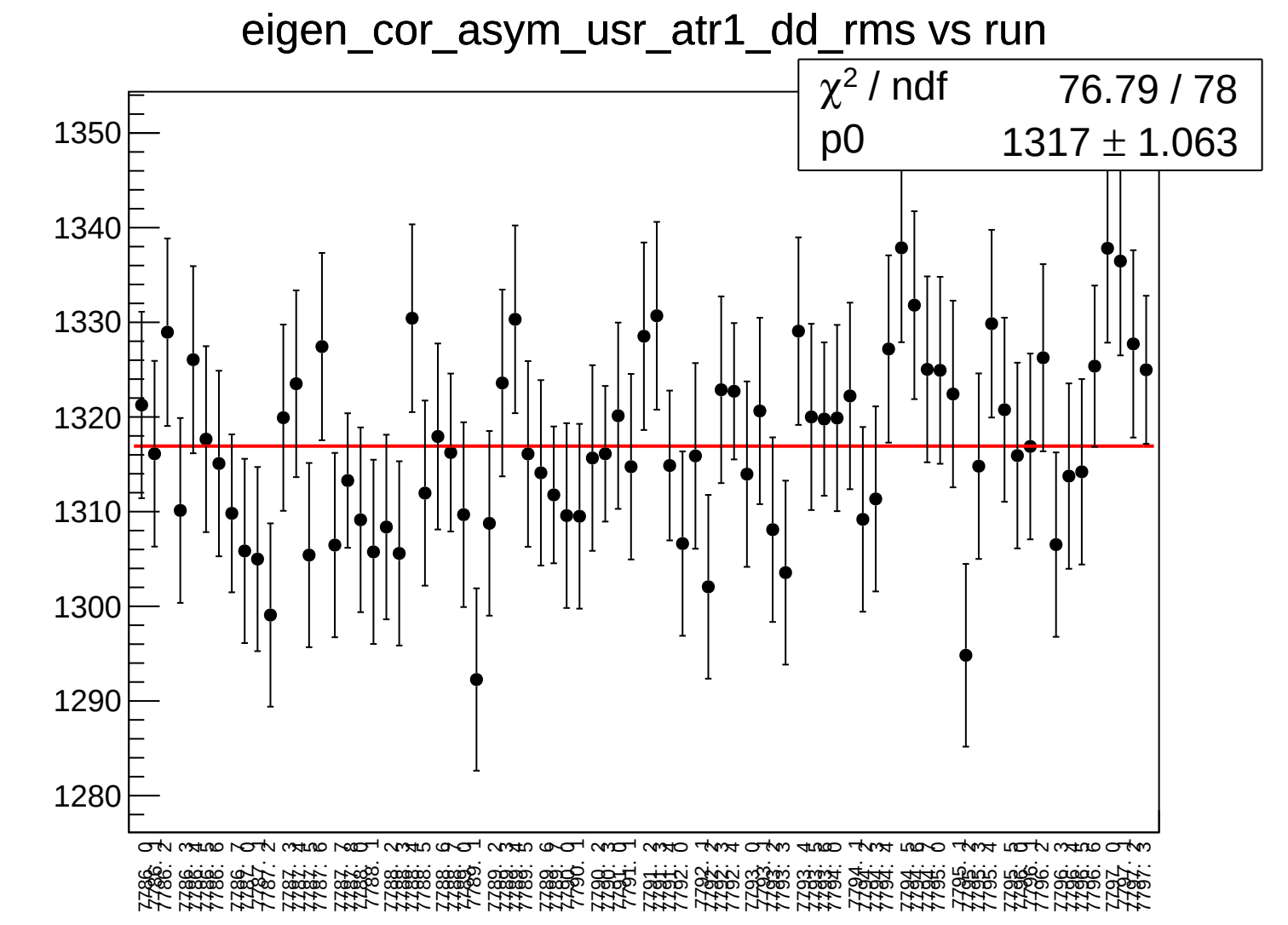

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 73.45 / 78
p0 2477 ± 1460
pull
Entries 79
Mean 40.51
Std Dev 86.53

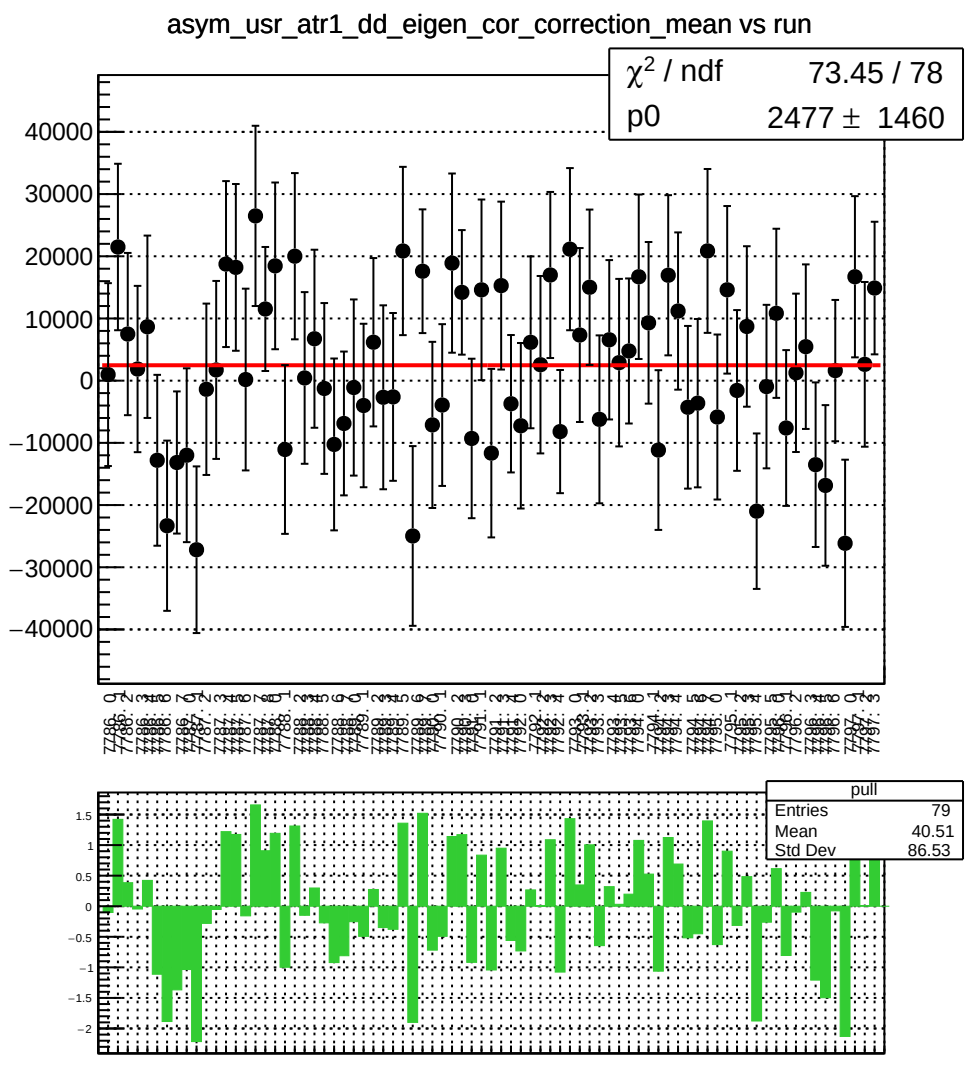

pull1D
Entries 79
Mean −0.008082
Std Dev 0.9642

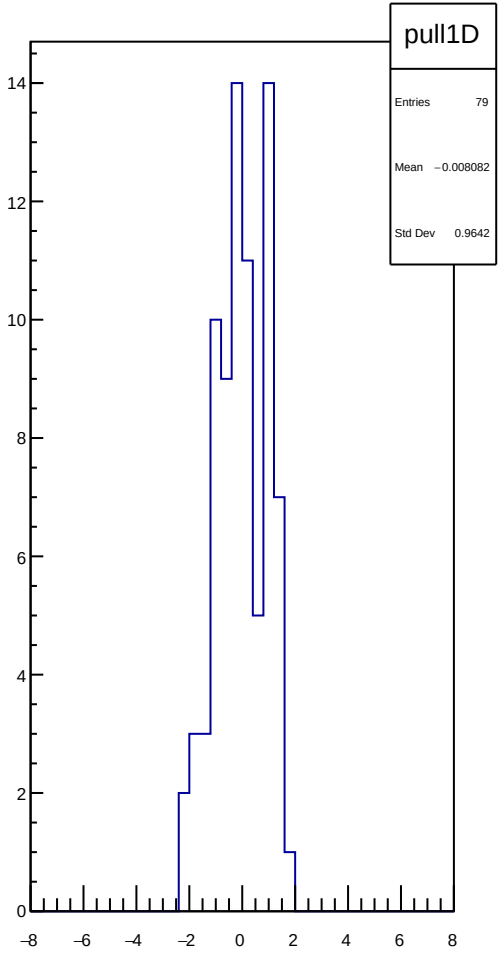

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 2209 / 78
p0 1278 ± 1.033
1400
1350
1300
1250
1200

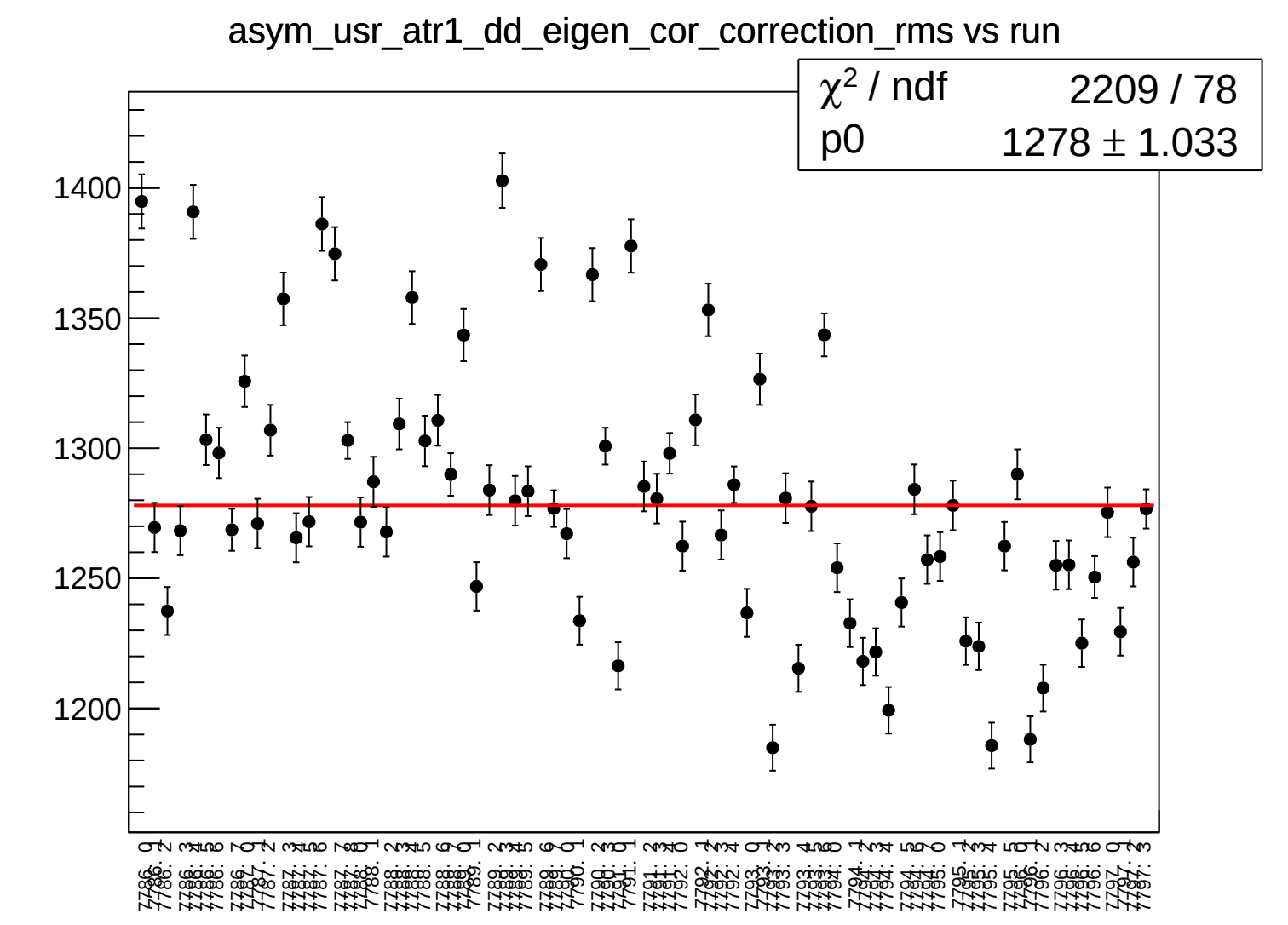

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 64.41 / 78
p0 1338 ± 1504
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −26.71
Std Dev 0
2
1
0
−1
−2
−3

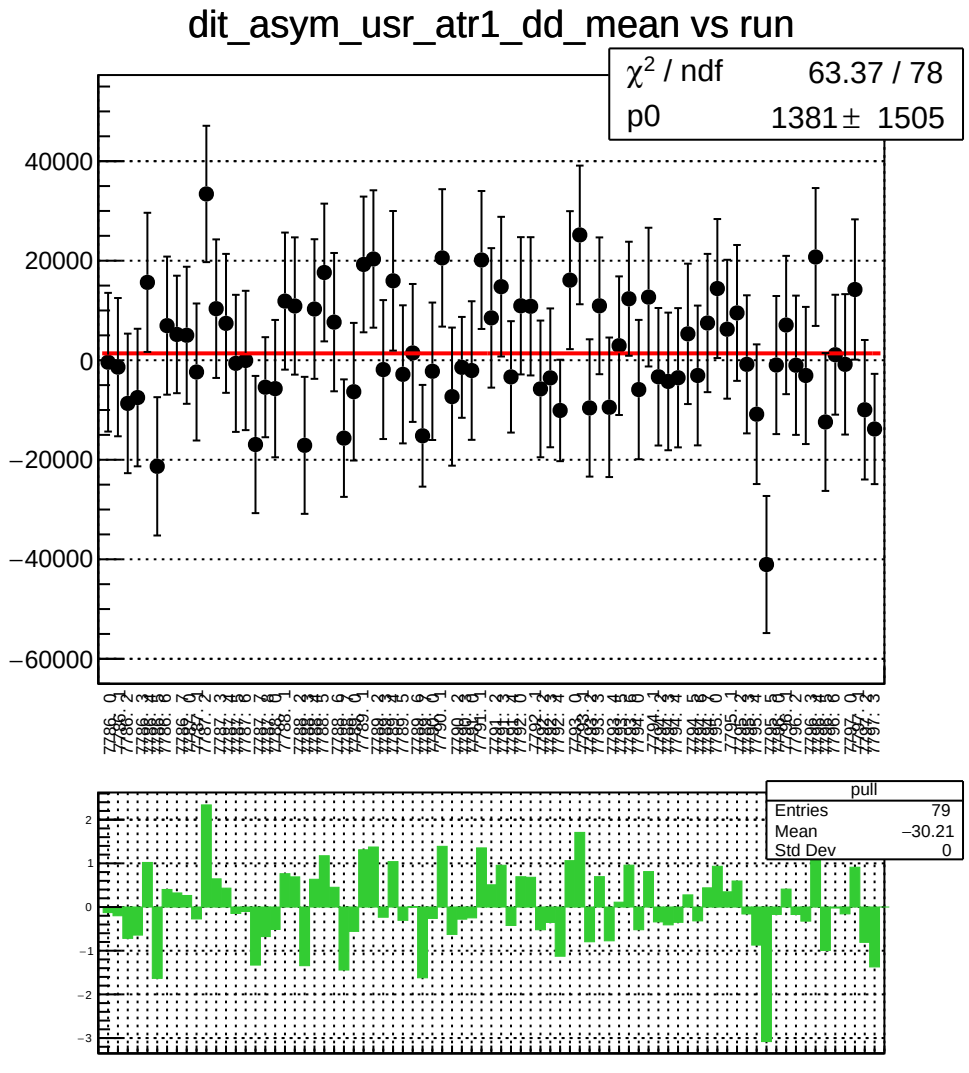

pull1D
Entries 79
Mean 0.02281
Std Dev 0.9026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

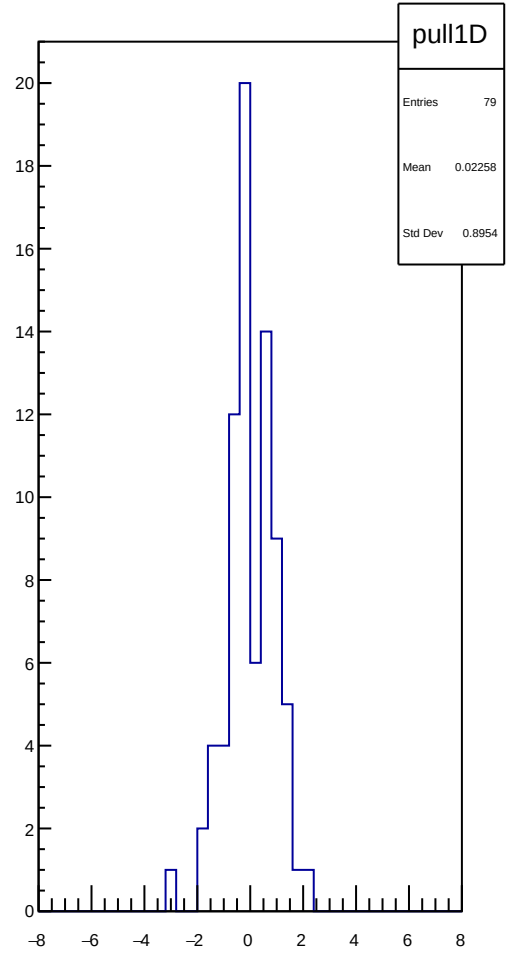

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 76.79 / 78
p0 1317 ± 1.063
1350
1340
1330
1320
1310
1300
1290
1280

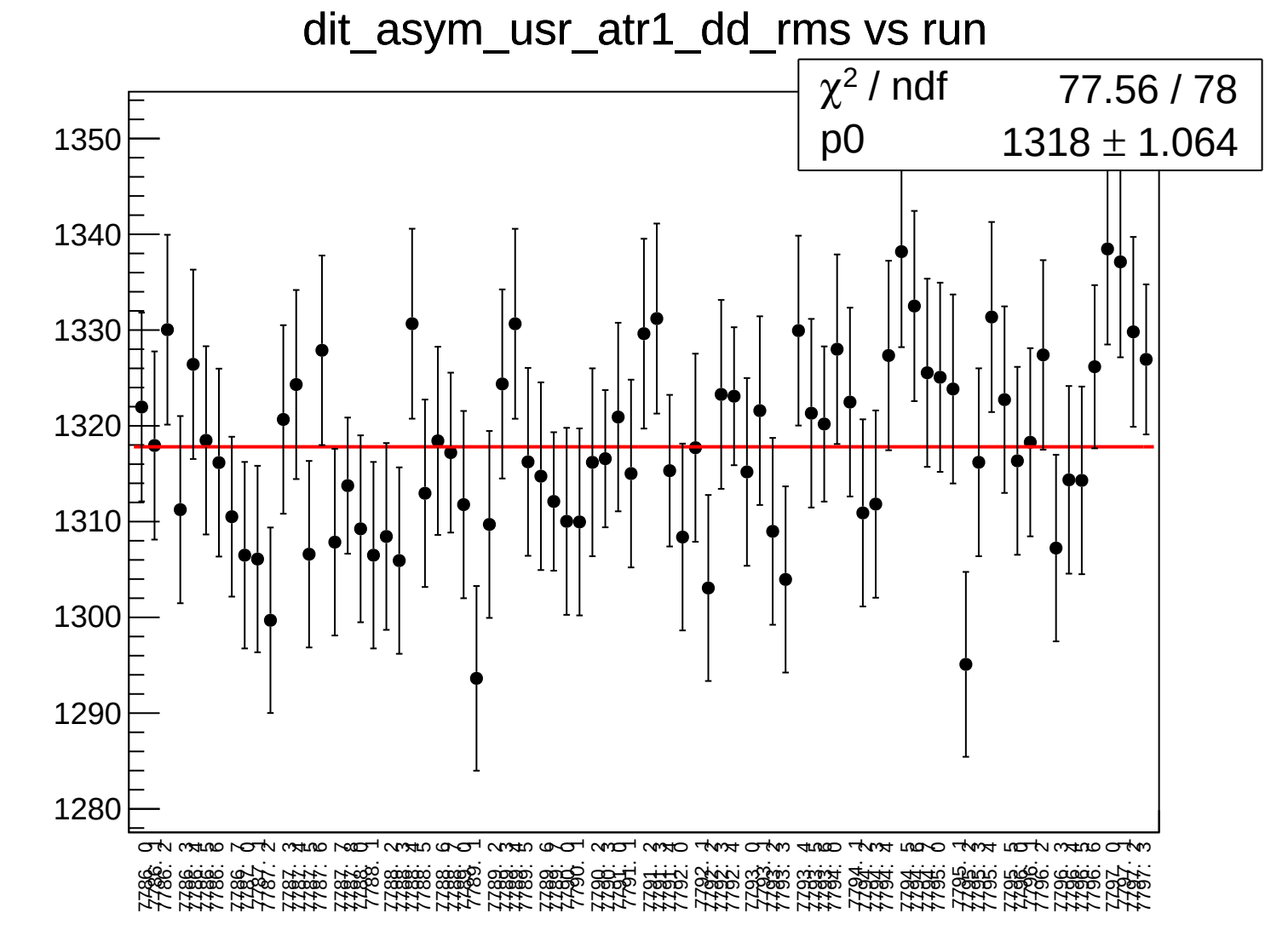

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.45 / 78
p0 2477 ± 1460
pull
Entries 79
Mean 40.51
Std Dev 86.53

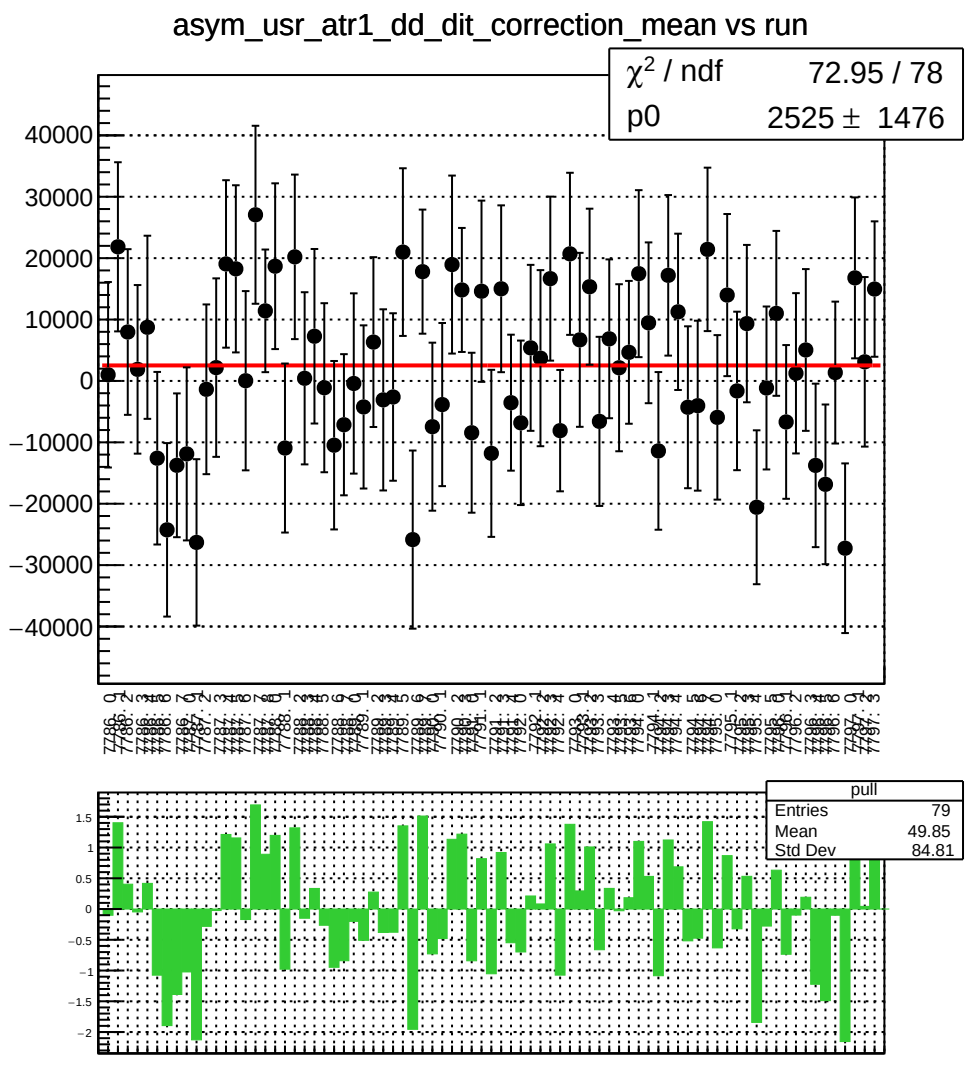

pull1D
Entries 79
Mean −0.008082
Std Dev 0.9642

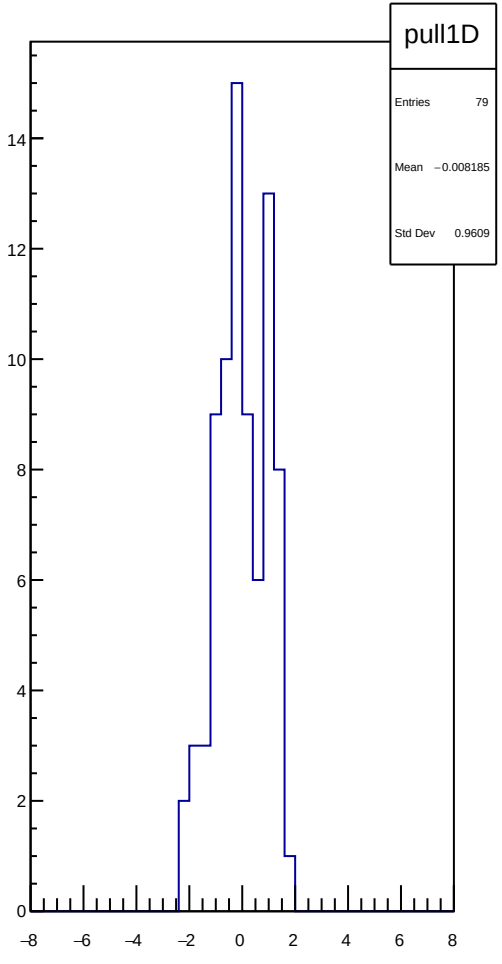

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2209 / 78
p0 1278 ± 1.033
1400
1350
1300
1250
1200

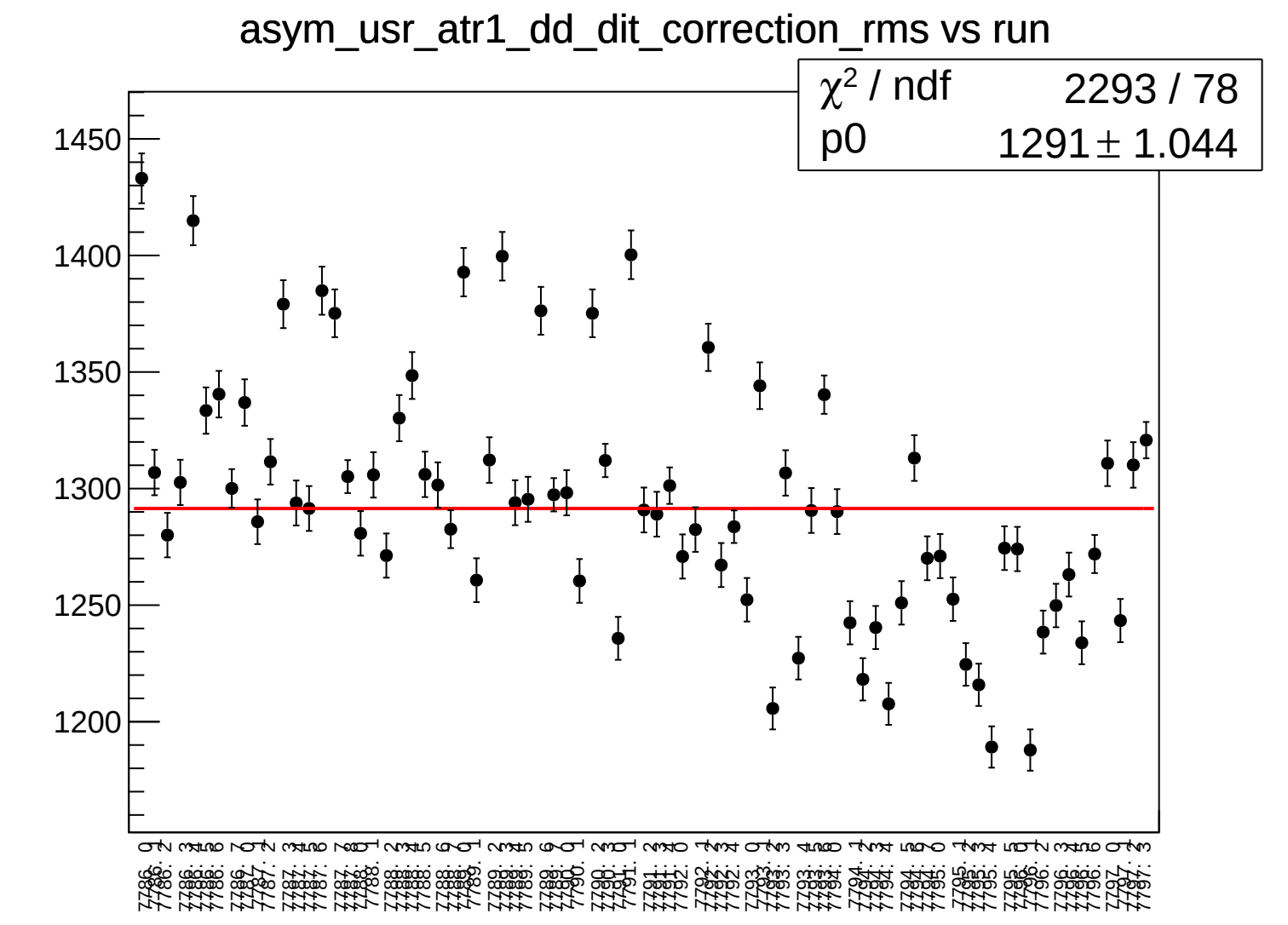

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 63.37 / 78
p0 1381 ± 1505
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −30.21
Std Dev 0
2
1
0
−1
−2
−3

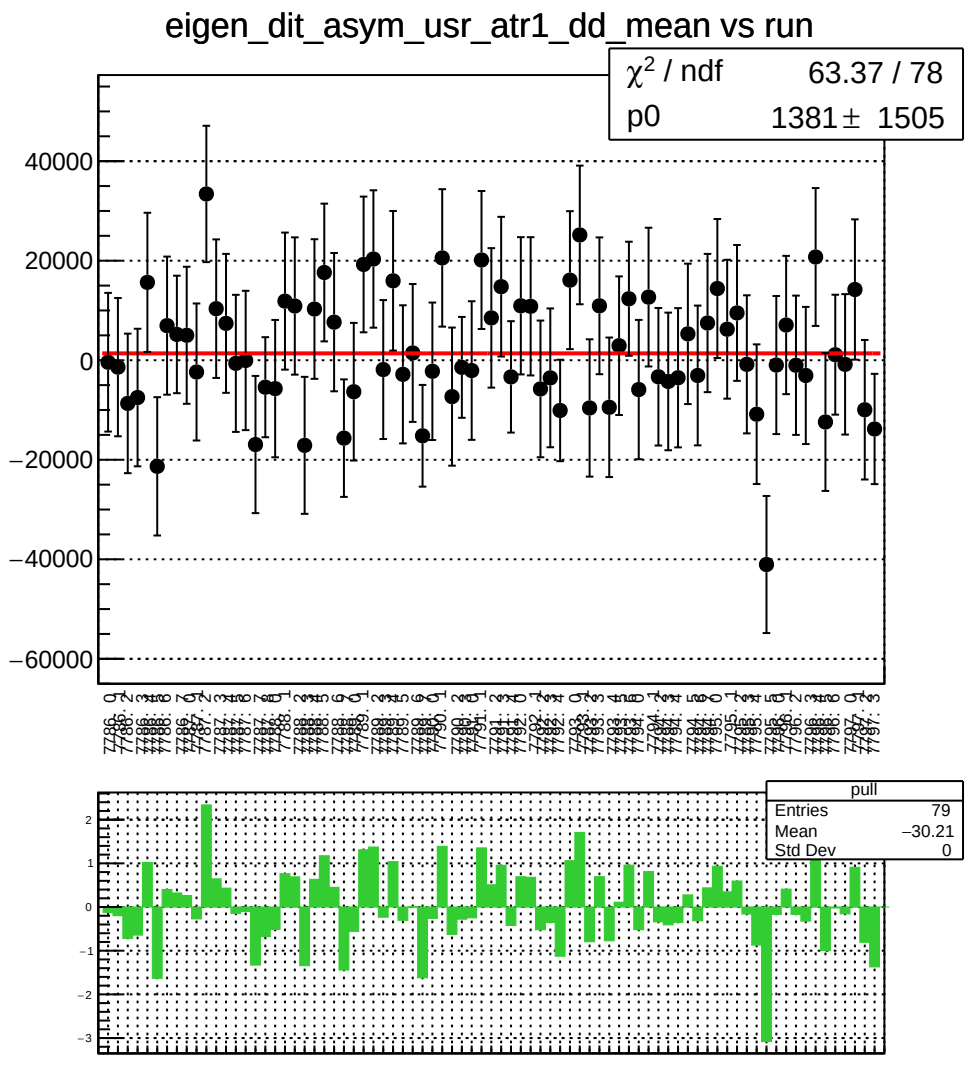

pull1D
Entries 79
Mean 0.02258
Std Dev 0.8954
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

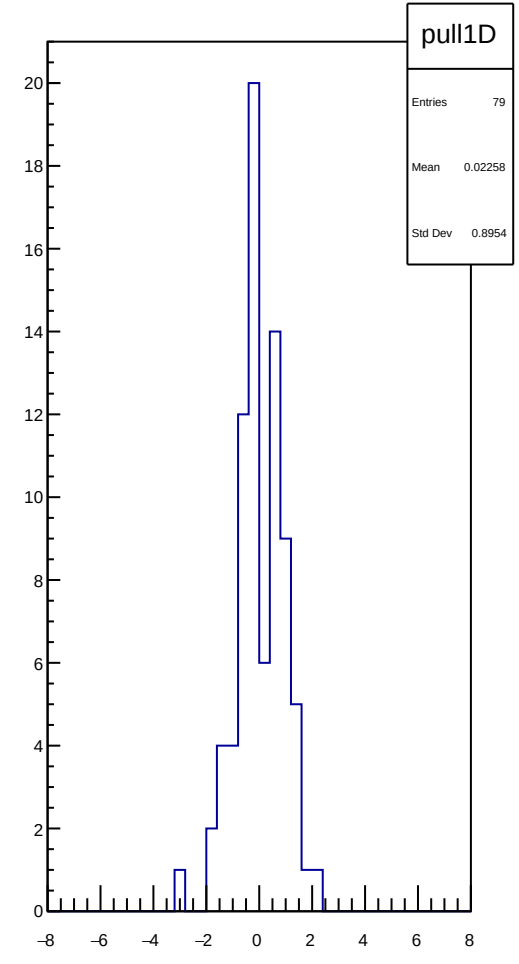

dit_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 77.56 / 78
p0 1318 ± 1.064
1350
1340
1330
1320
1310
1300
1290
1280

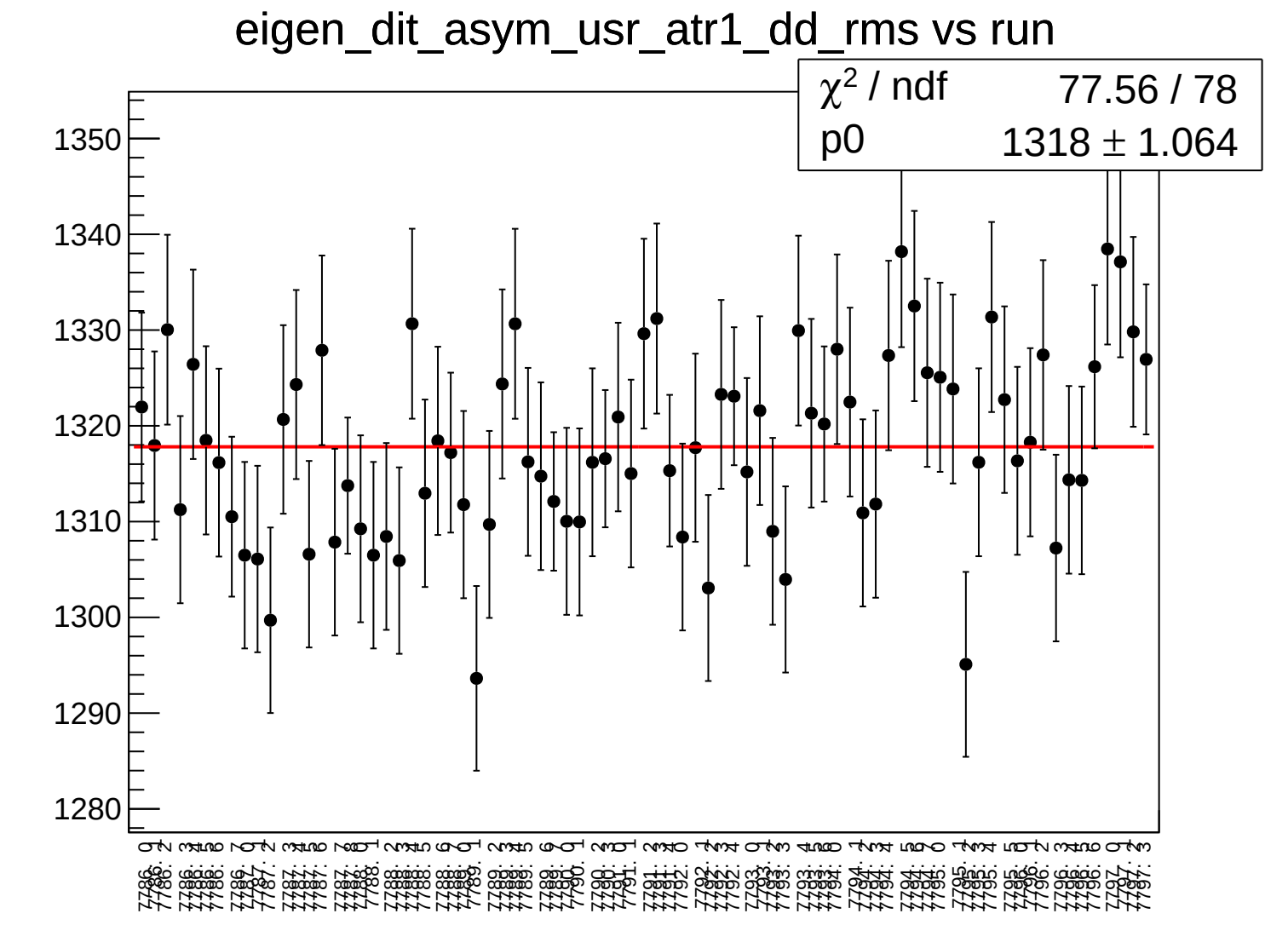

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 72.95 / 78
p0 2525 ± 1476
pull
Entries 79
Mean 49.85
Std Dev 84.81

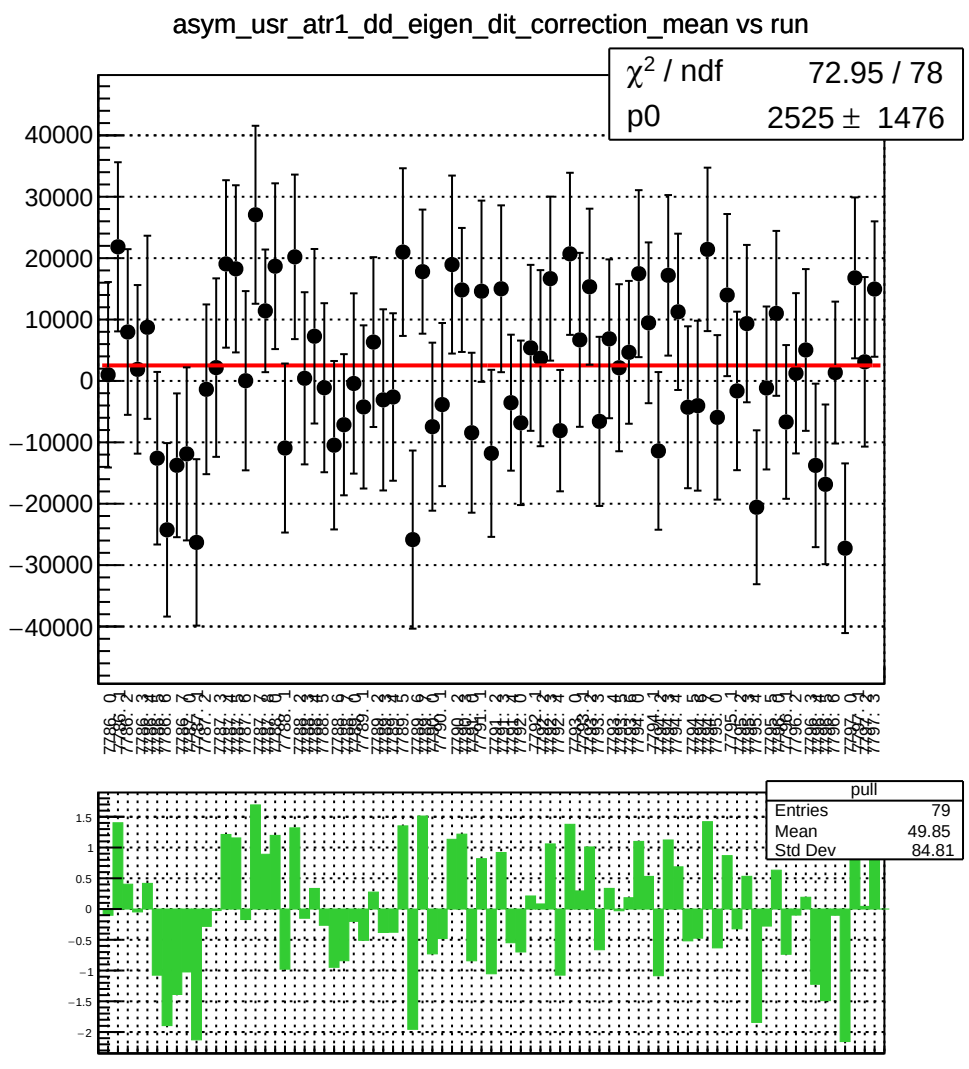

pull1D
Entries 79
Mean −0.008185
Std Dev 0.9609

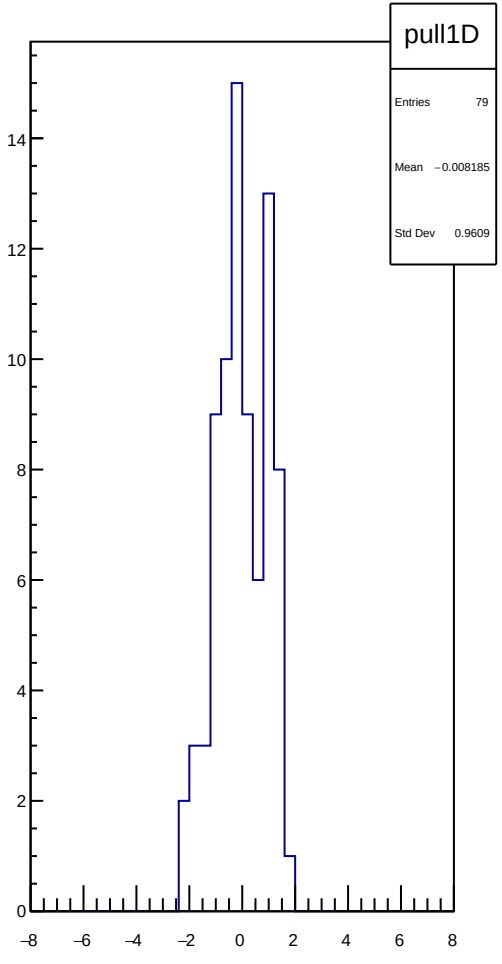

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 2293 / 78
p0 1291 ± 1.044
1450
1400
1350
1300
1250
1200

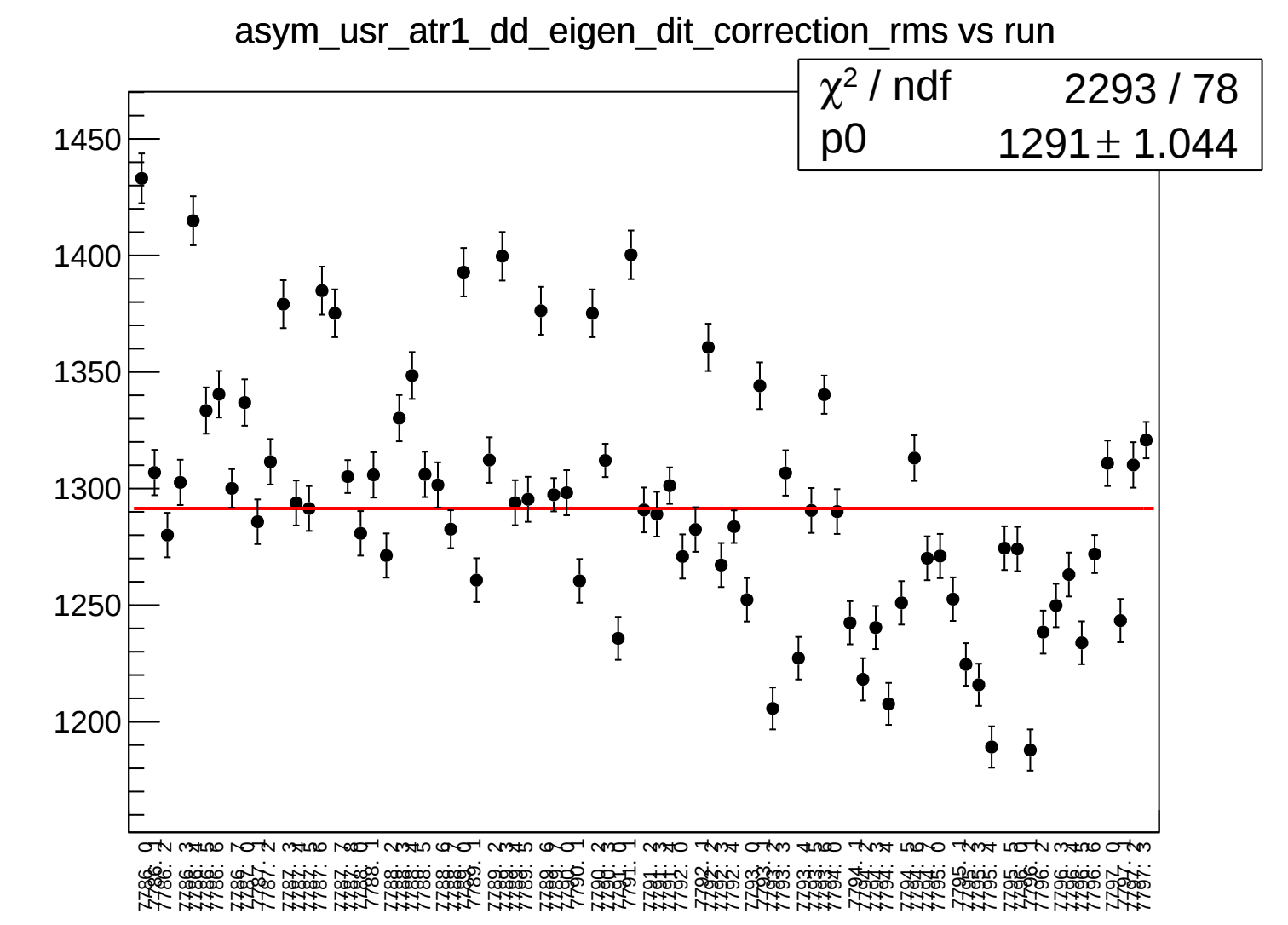

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 63.37 / 78
p0 1381 ± 1505
pull
Entries 79
Mean −30.21
Std Dev 0

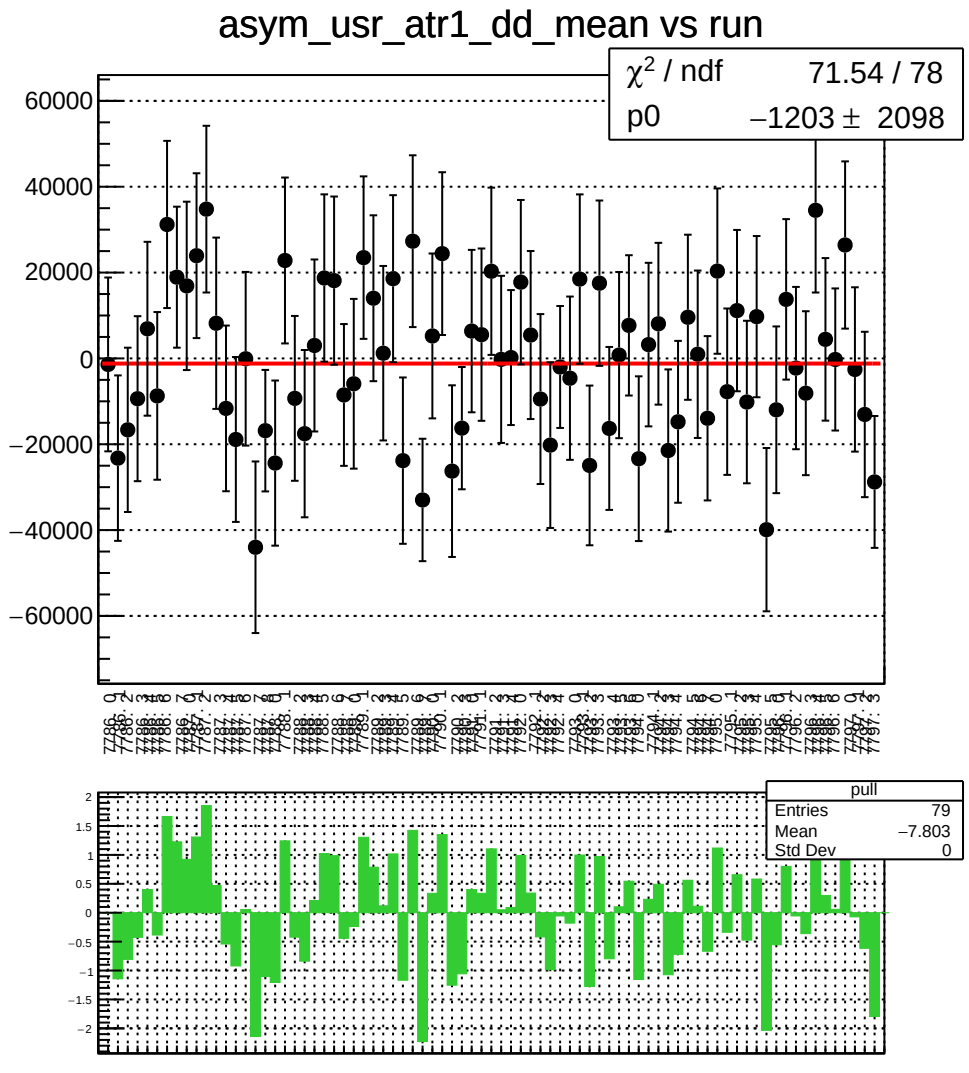

pull1D
Entries 79
Mean 0.02258
Std Dev 0.8954

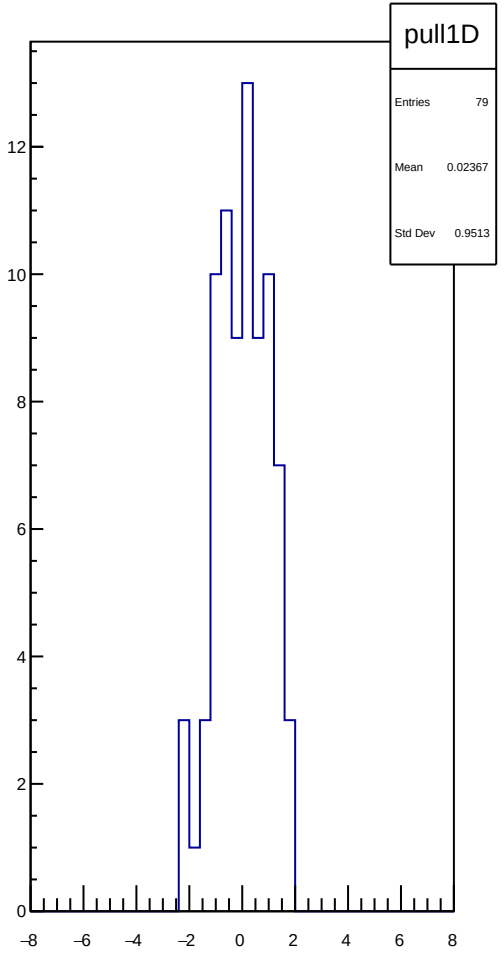

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 77.56 / 78
p0 1318 ± 1.064
1350
1340
1330
1320
1310
1300
1290
1280

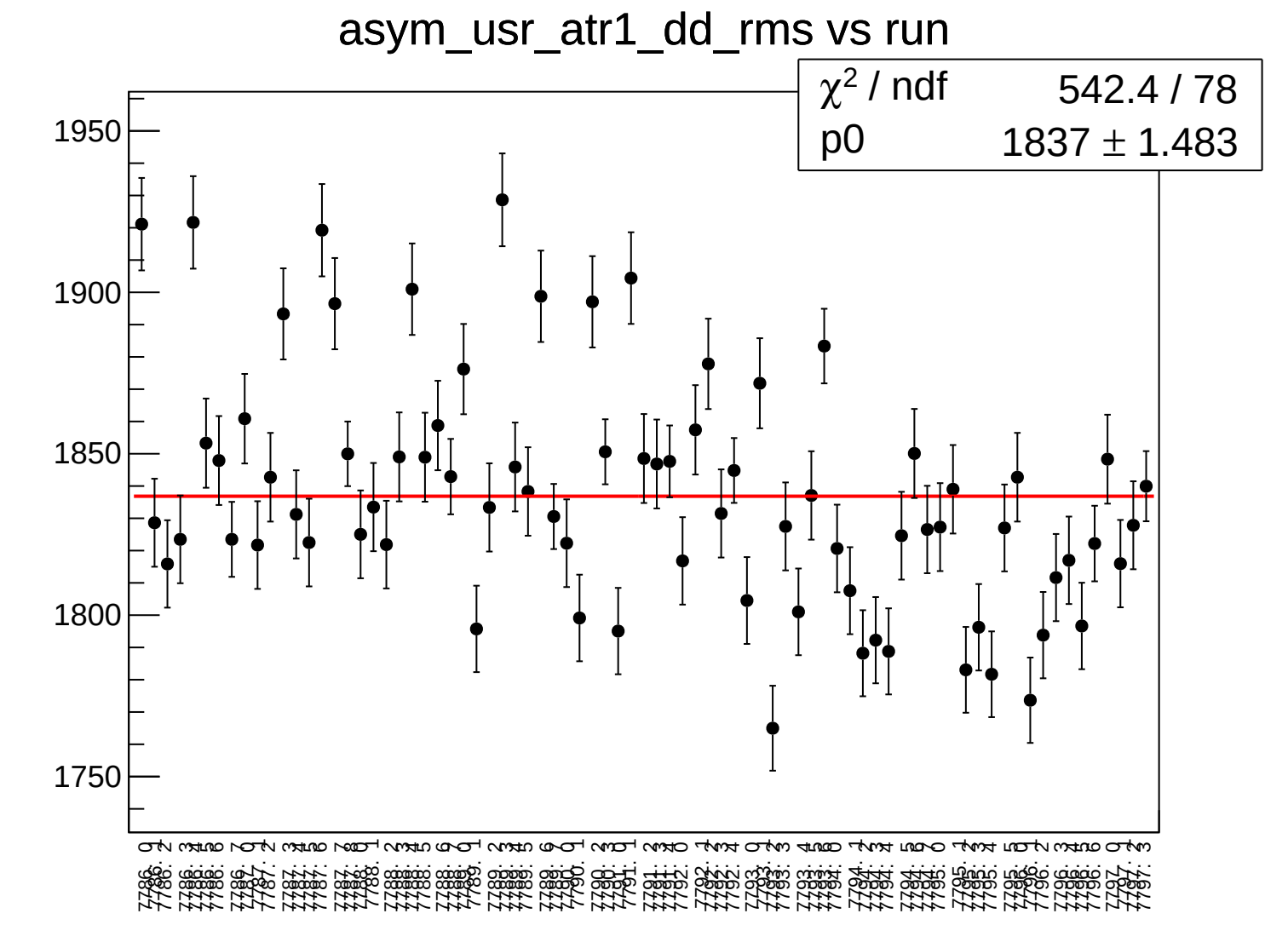

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.95 / 78
p0 2525 ± 1476
pull
Entries 79
Mean 49.85
Std Dev 84.81

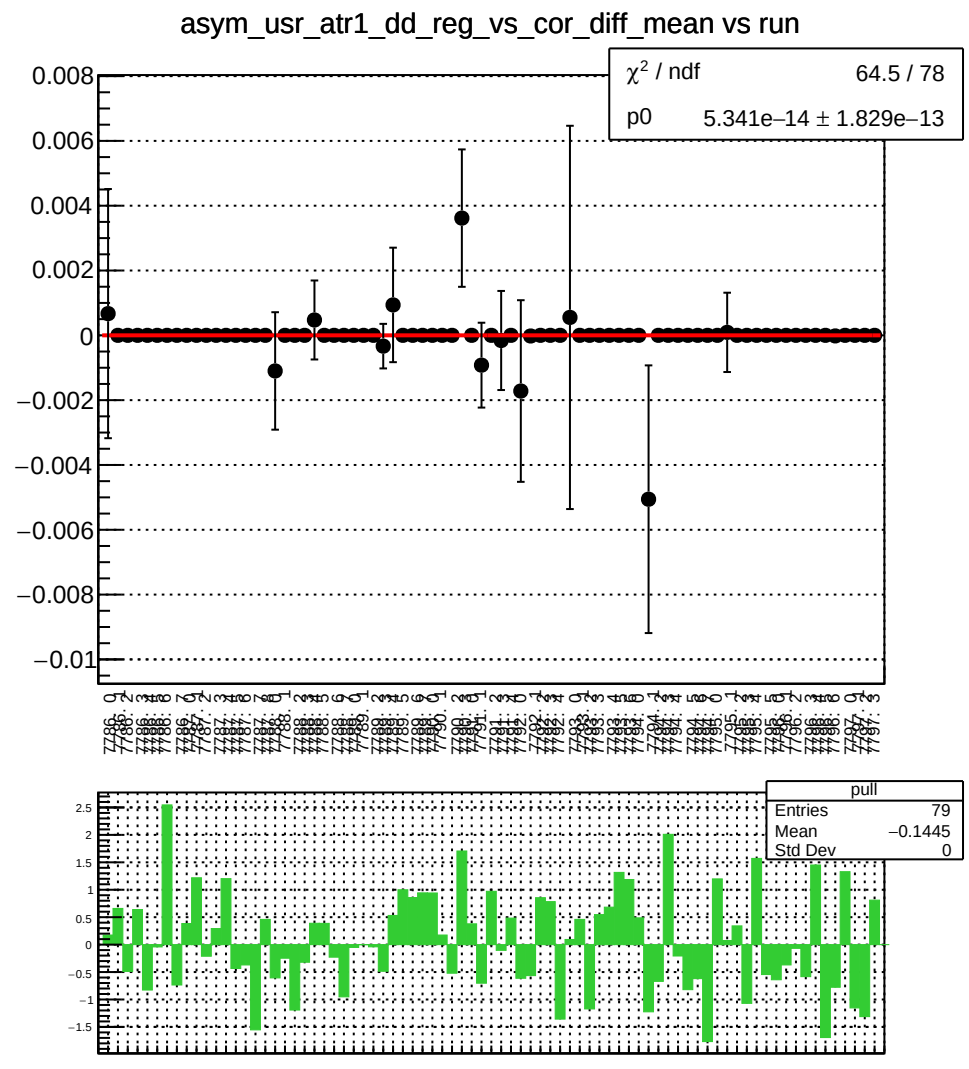

pull1D
Entries 79
Mean −0.008185
Std Dev 0.9609

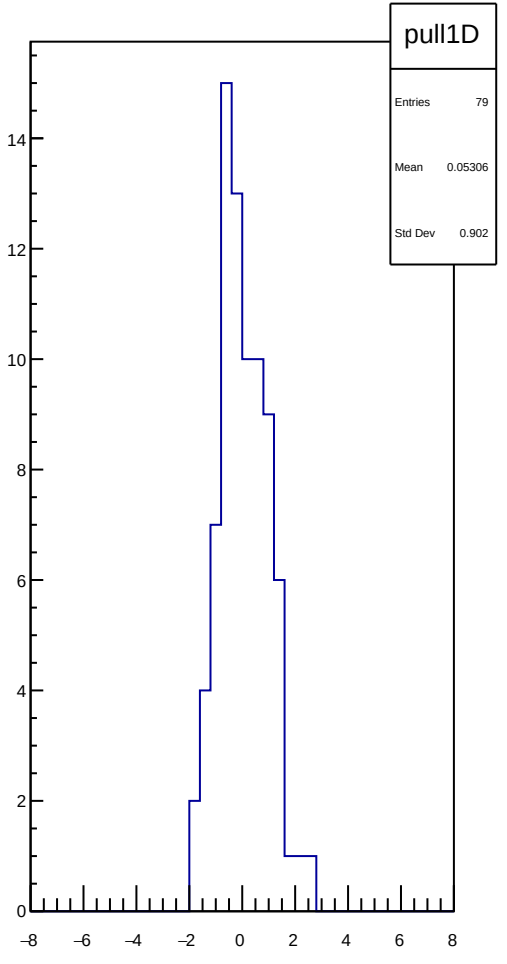

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2293 / 78
p0 1291 ± 1.044
1450
1400
1350
1300
1250
1200

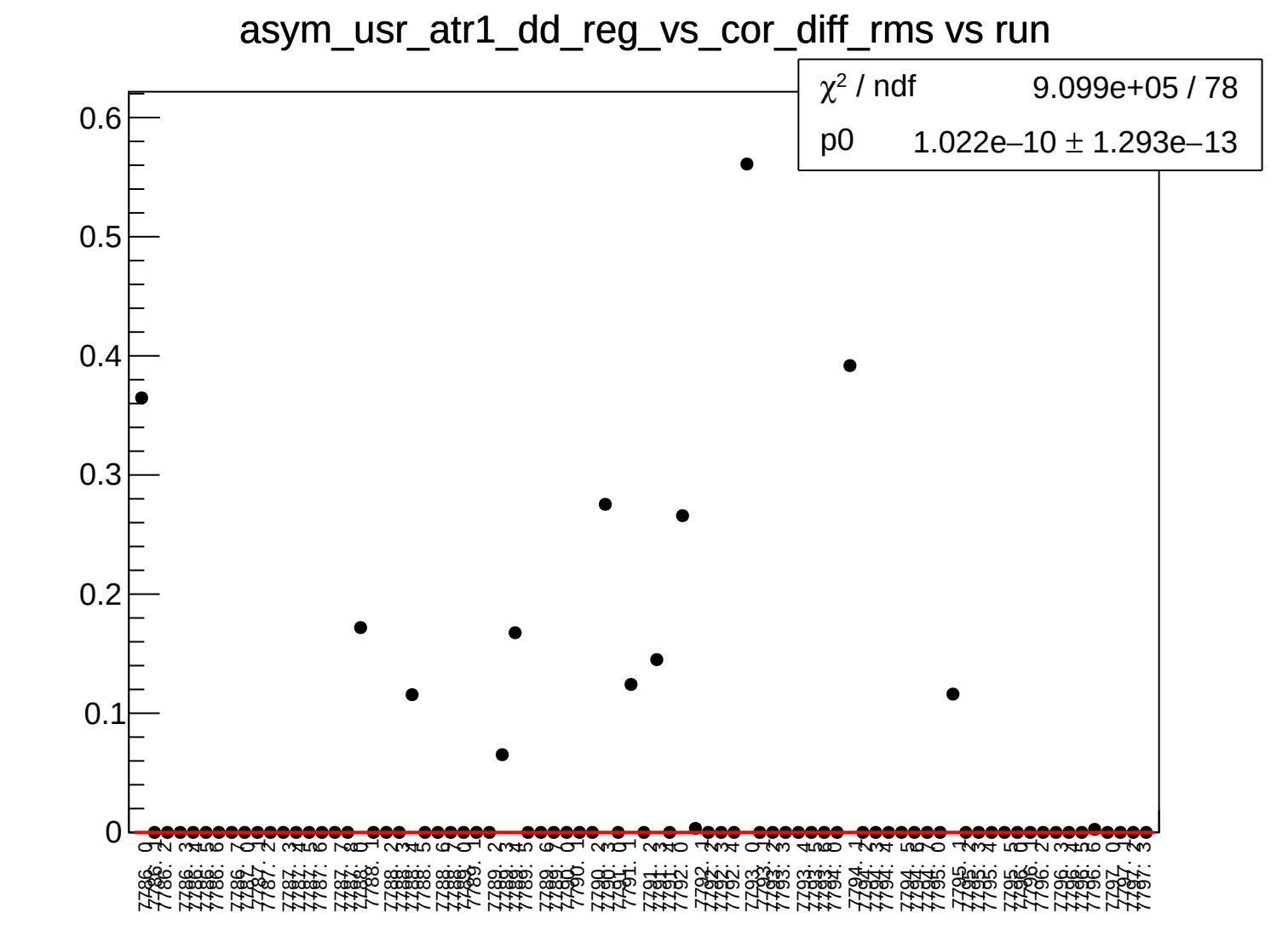

asym_usr_atr1_dd_mean vs run
χ² / ndf 71.54 / 78
p0 −1203 ± 2098
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −7.803
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

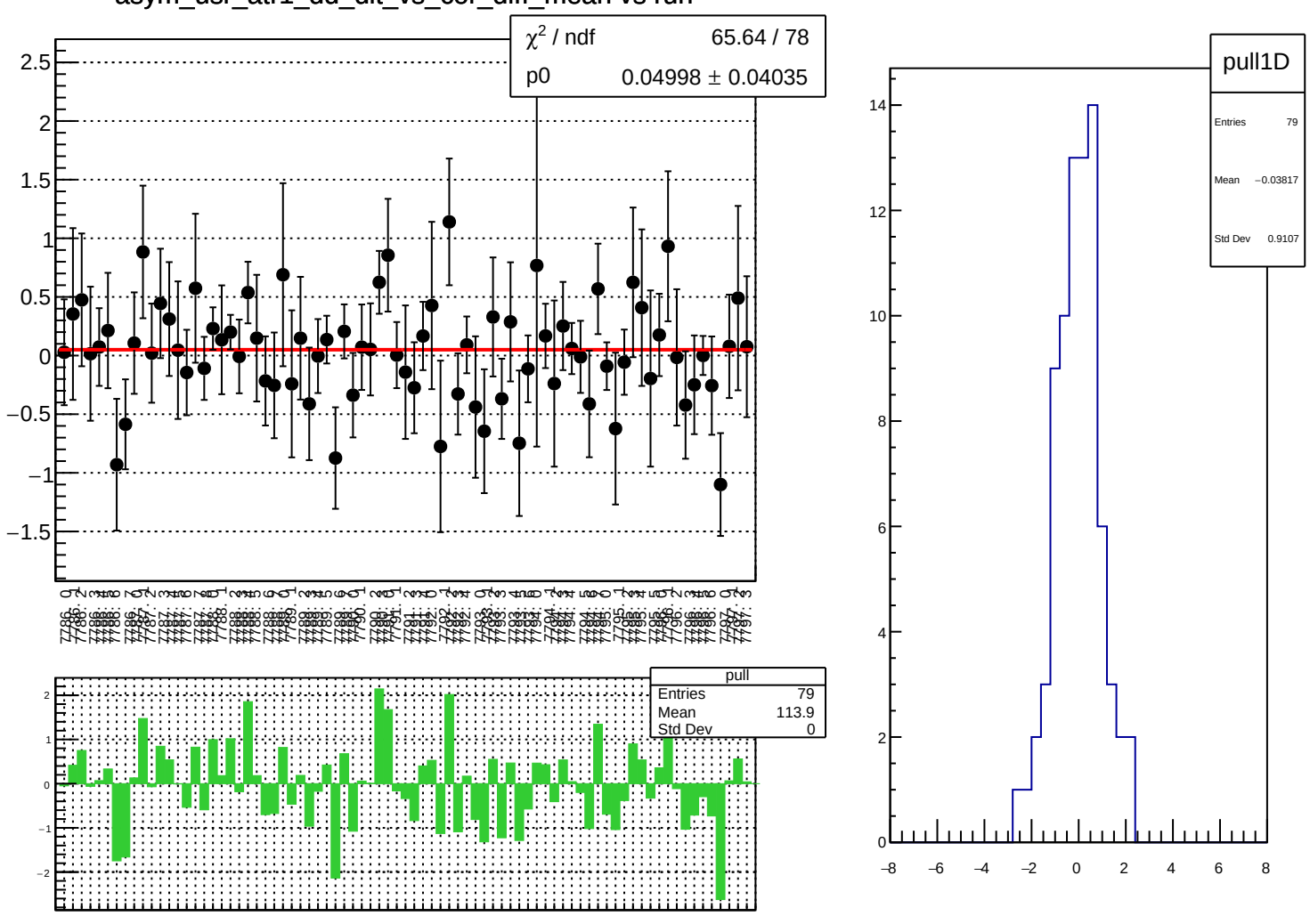

pull1D
Entries 79
Mean 0.02367
Std Dev 0.9513
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

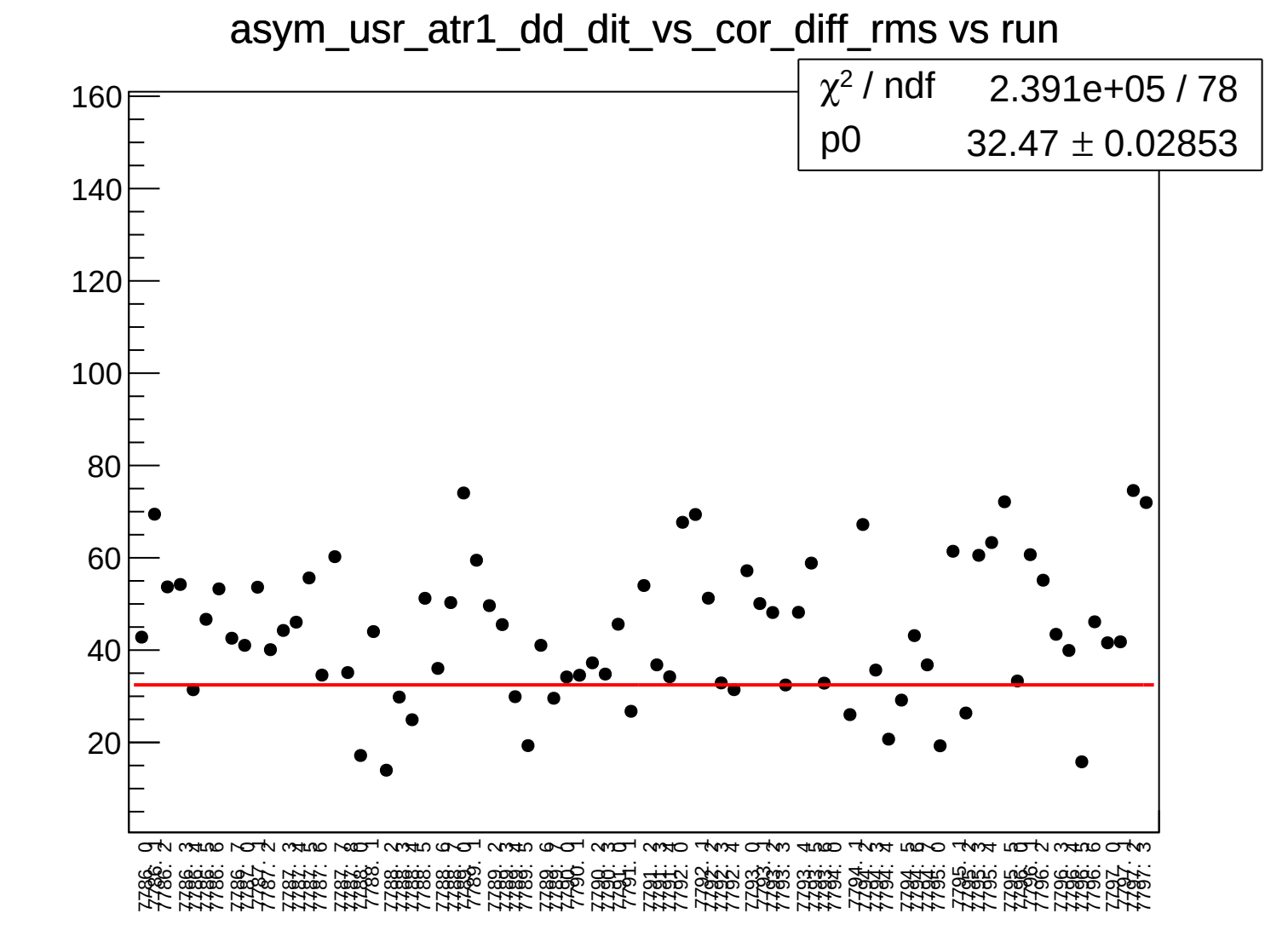

asym_usr_atr1_dd_rms vs run
χ² / ndf 542.4 / 78
p0 1837 ± 1.483
1950
1900
1850
1800
1750

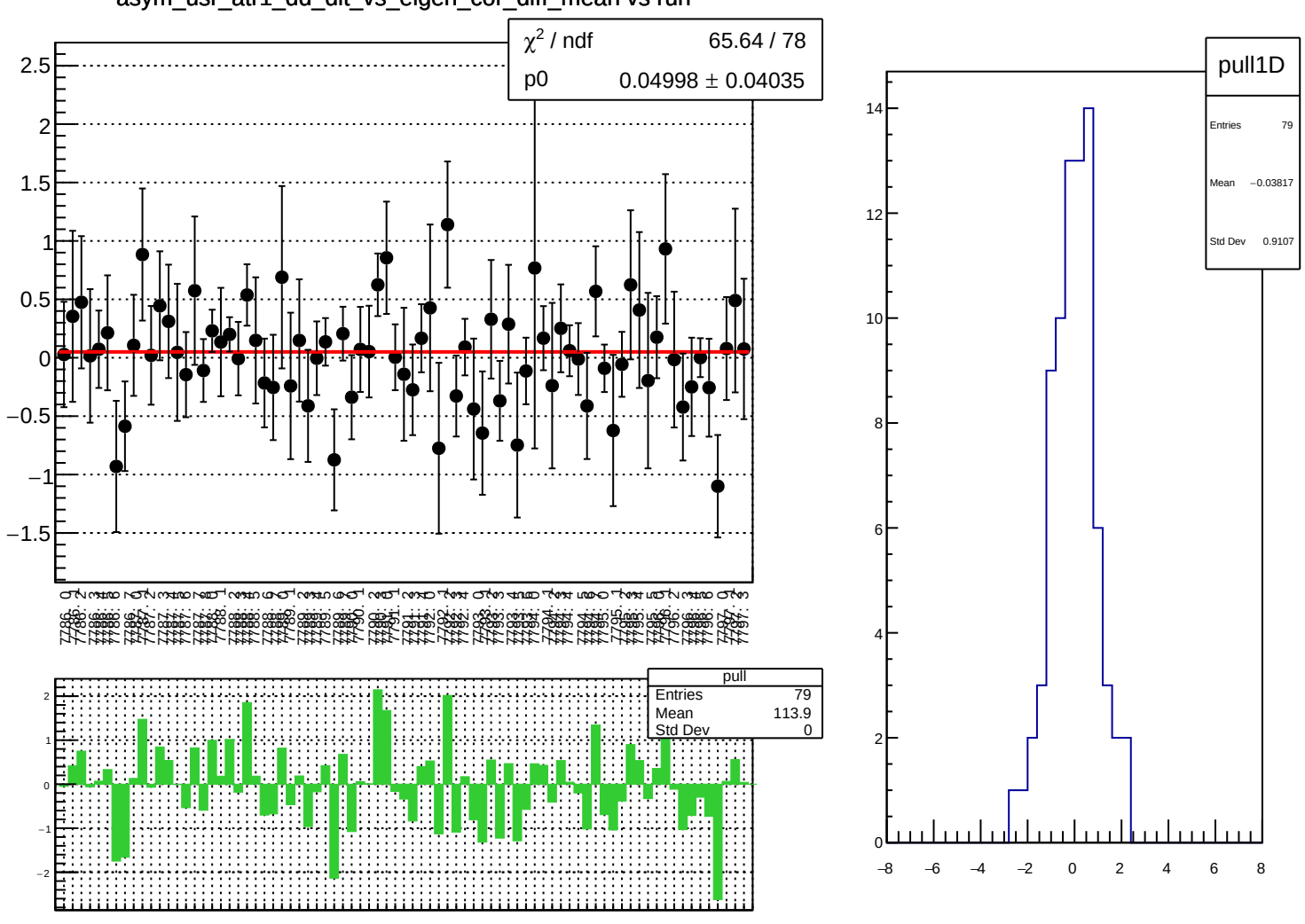

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.5 / 78
p0 5.341e−14 ± 1.829e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 79
Mean −0.1445
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

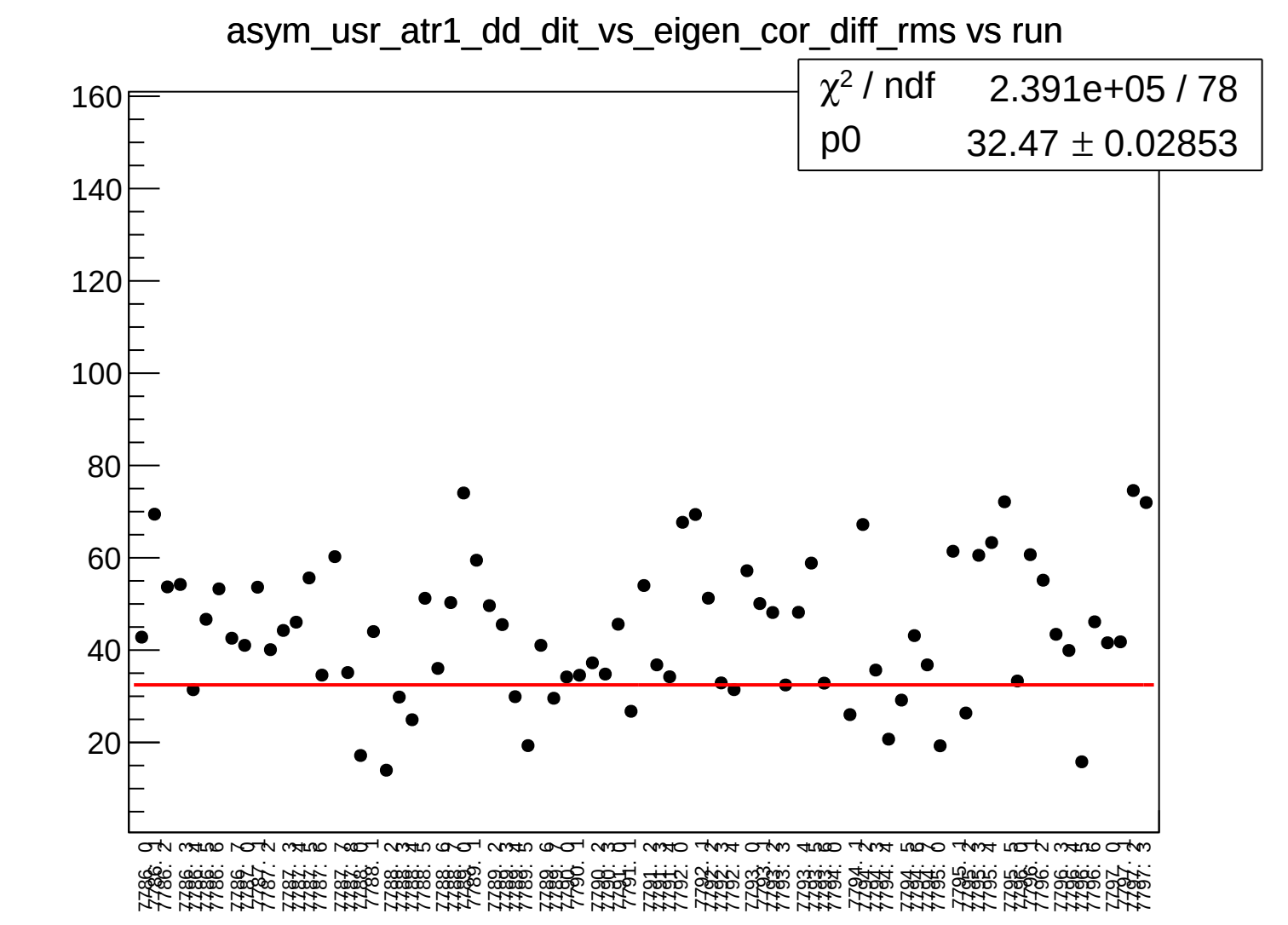

pull1D
Entries 79
Mean 0.05306
Std Dev 0.902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

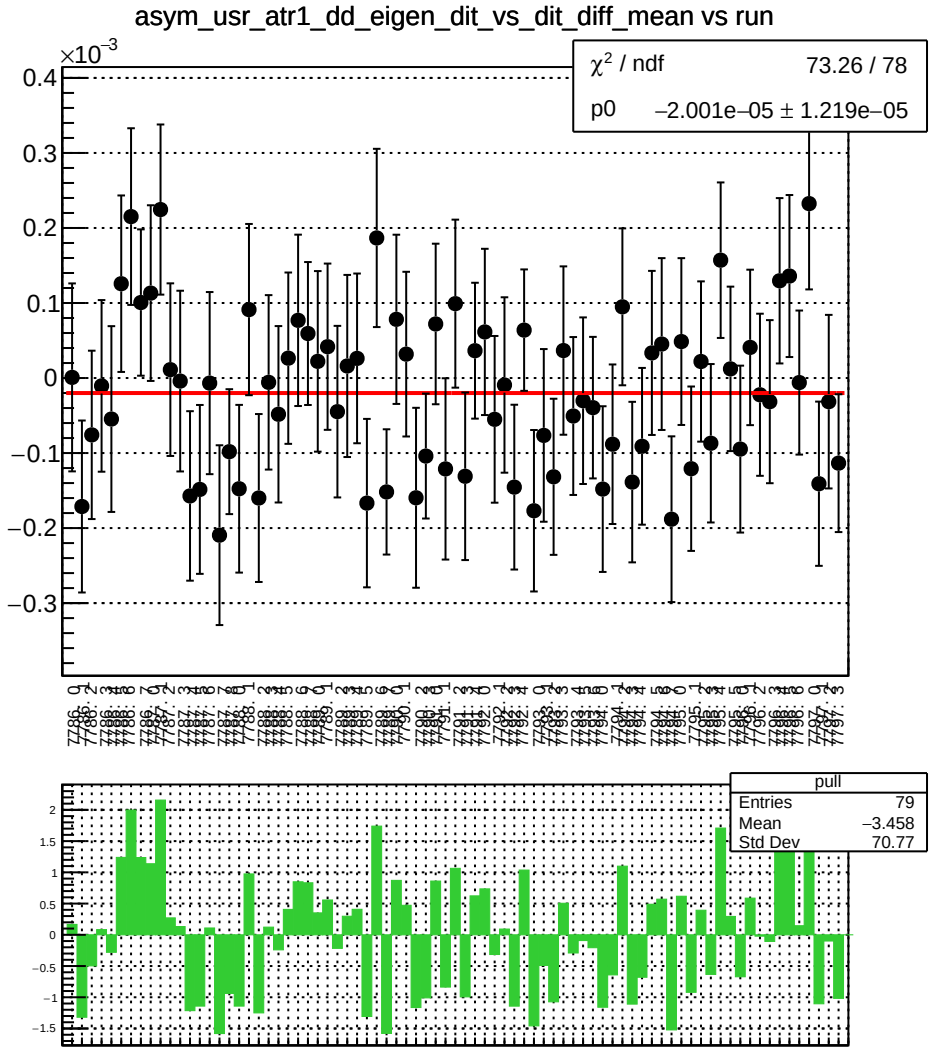

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.099e+05 / 78
p0 1.022e−10 ± 1.293e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

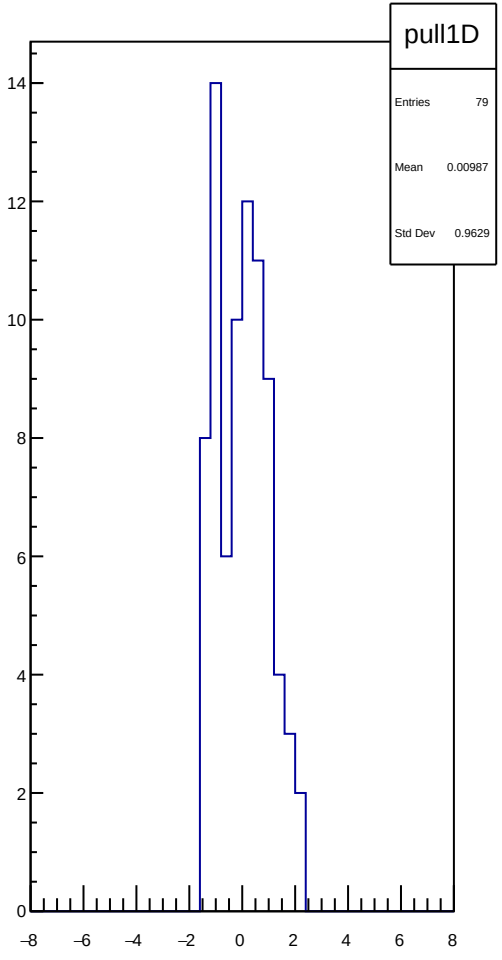

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.64 / 78
p0 0.04998 ± 0.04035
pull
Entries 79
Mean 113.9
Std Dev 0
pull1D
Entries 79
Mean −0.03817
Std Dev 0.9107

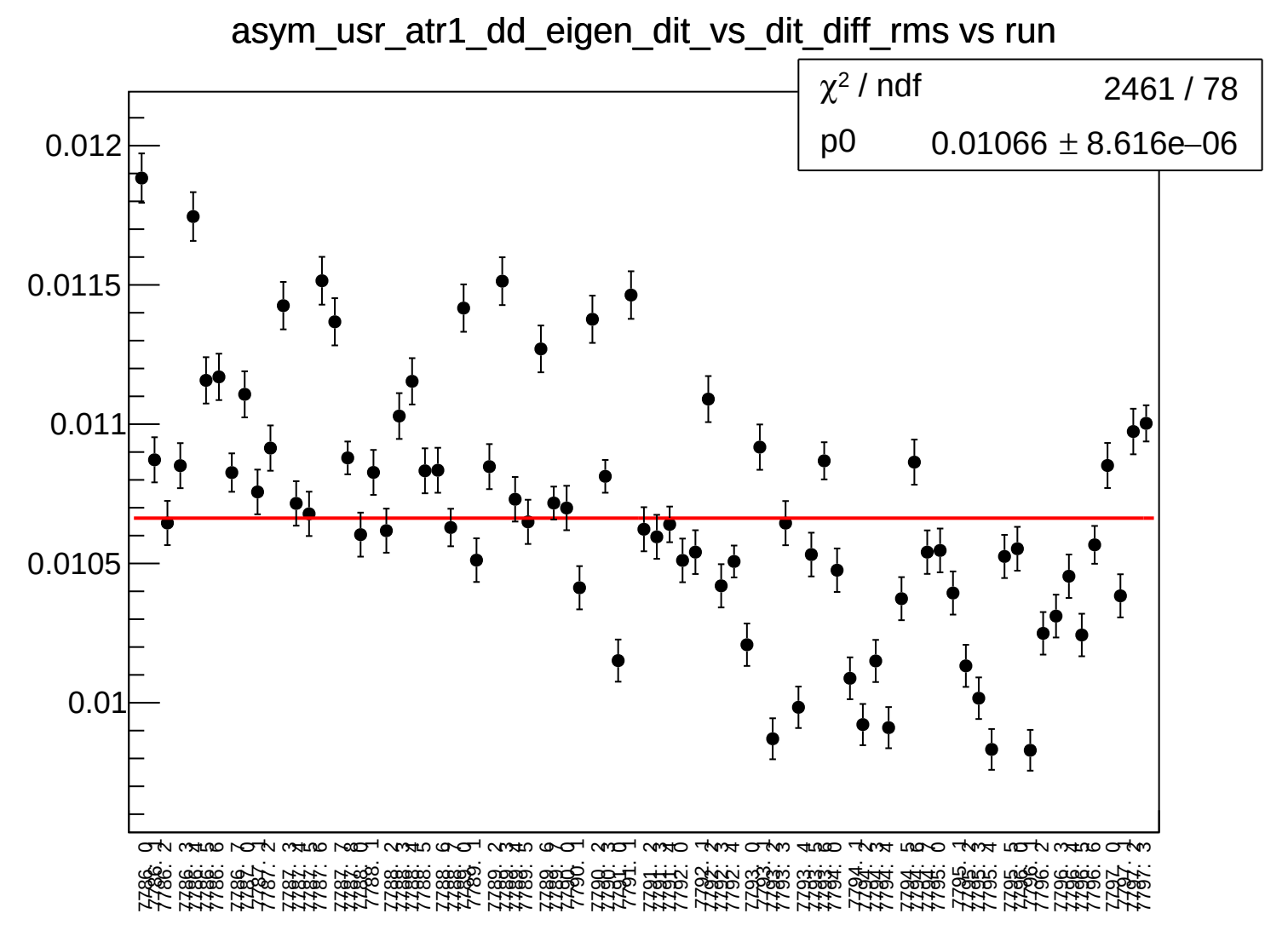

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.391e+05 / 78
p0 32.47 ± 0.02853
160
140
120
100
80
60
40
20

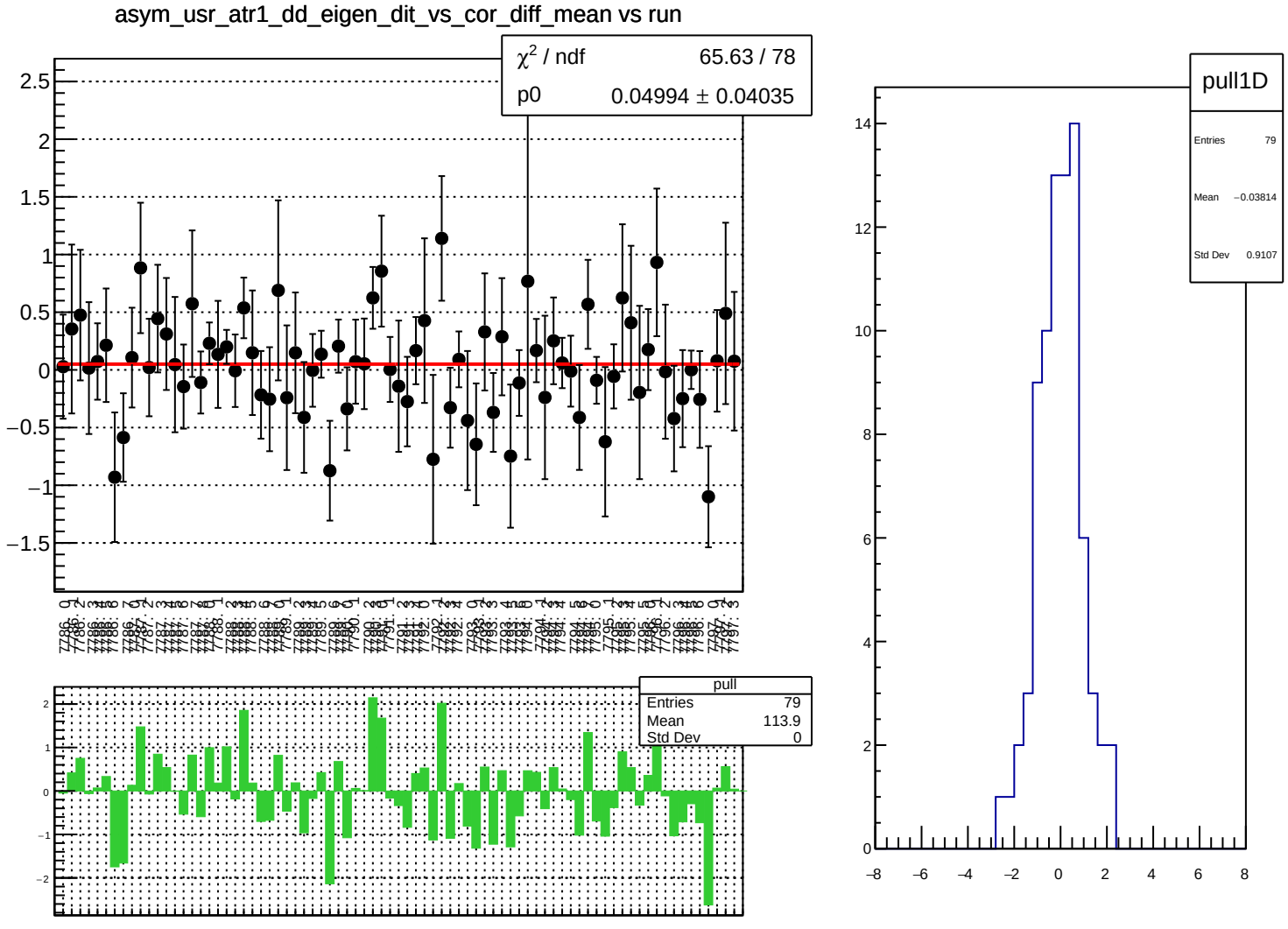

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.64 / 78
p0 0.04998 ± 0.04035
pull
Entries 79
Mean 113.9
Std Dev 0
pull1D
Entries 79
Mean −0.03817
Std Dev 0.9107

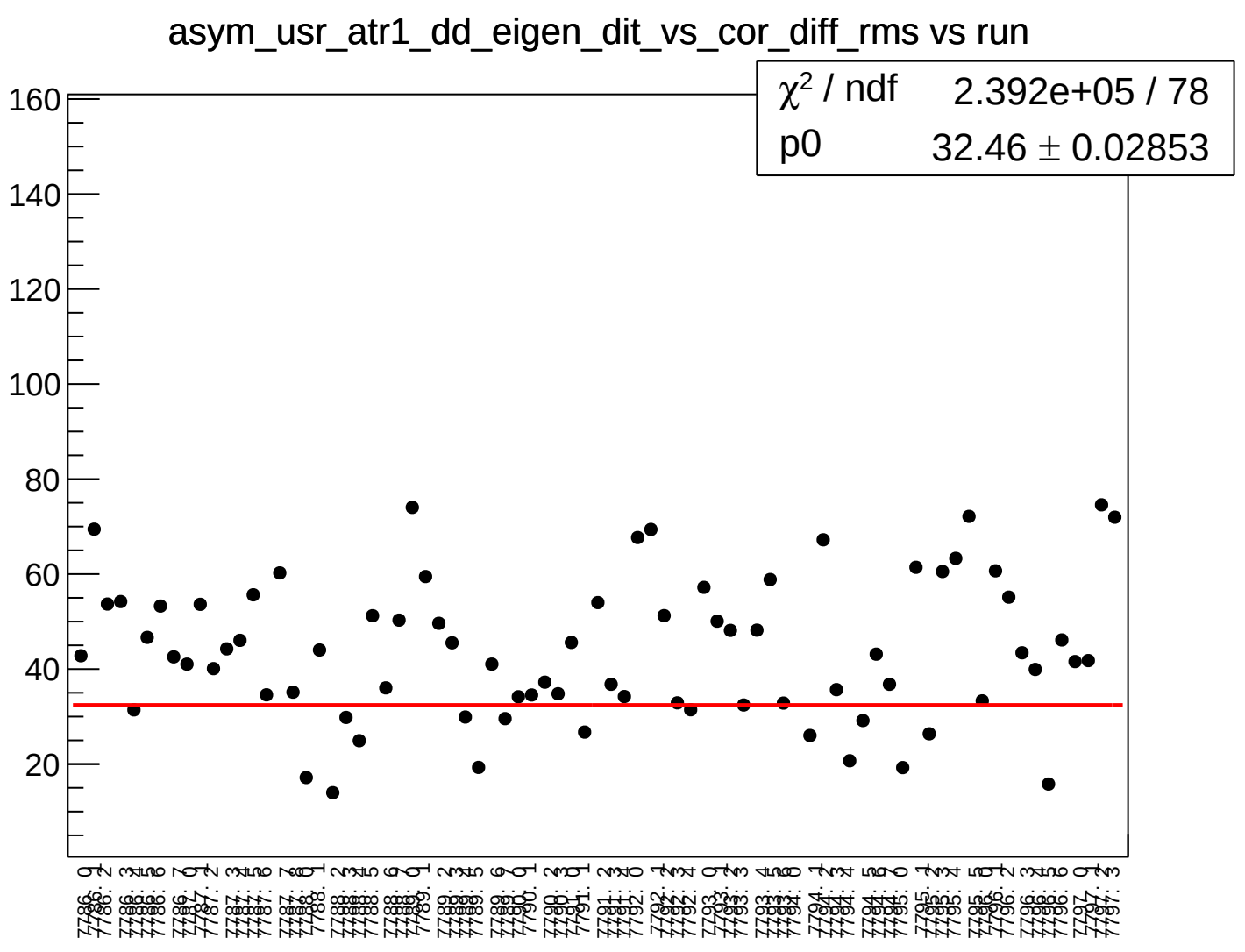

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.391e+05 / 78
p0 32.47 ± 0.02853
160
140
120
100
80
60
40
20

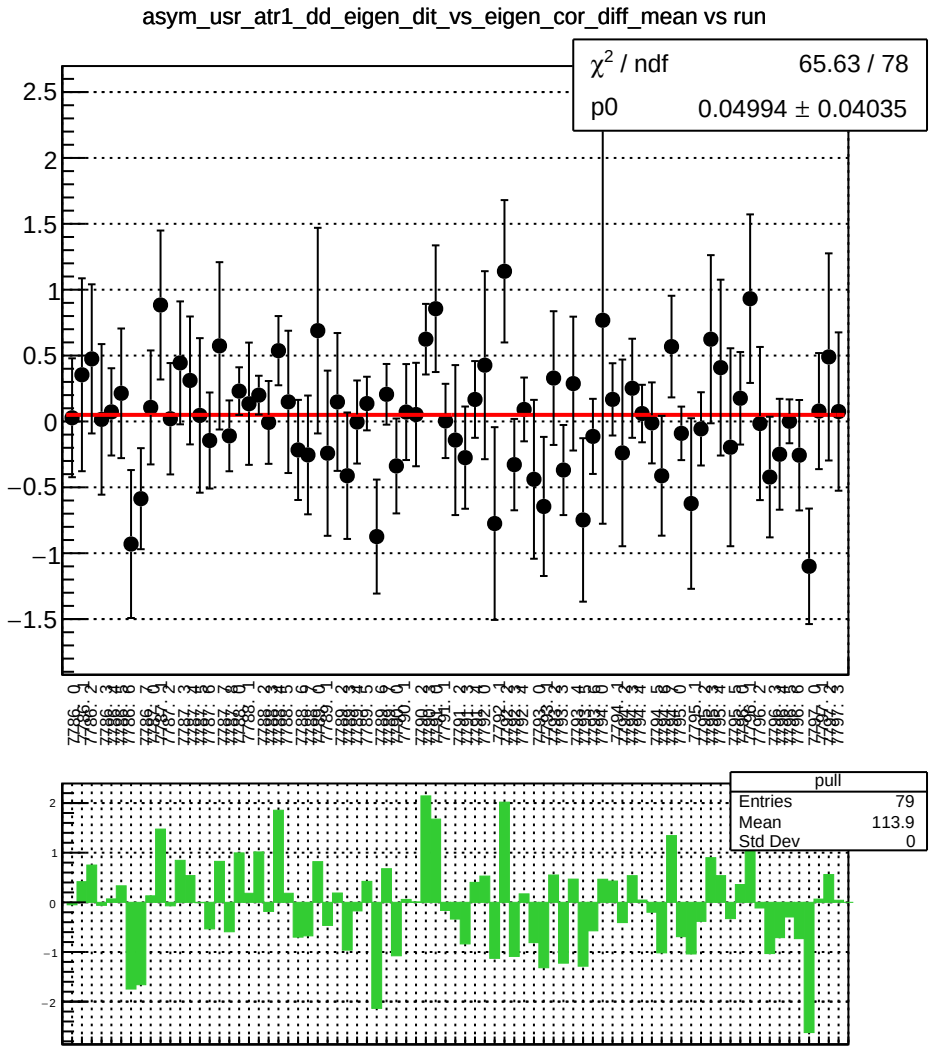

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.26 / 78
p0 −2.001e−05 ± 1.219e−05
pull
Entries 79
Mean −3.458
Std Dev 70.77

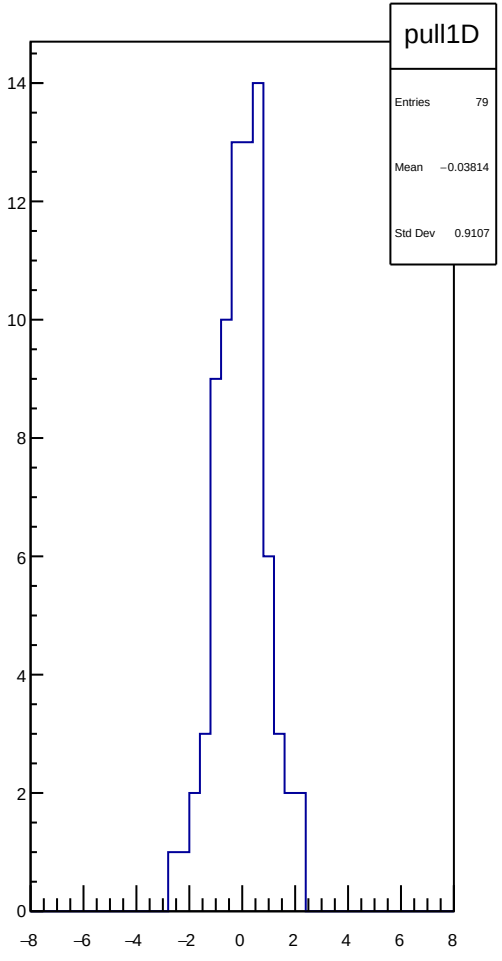

pull1D
Entries 79
Mean 0.00987
Std Dev 0.9629

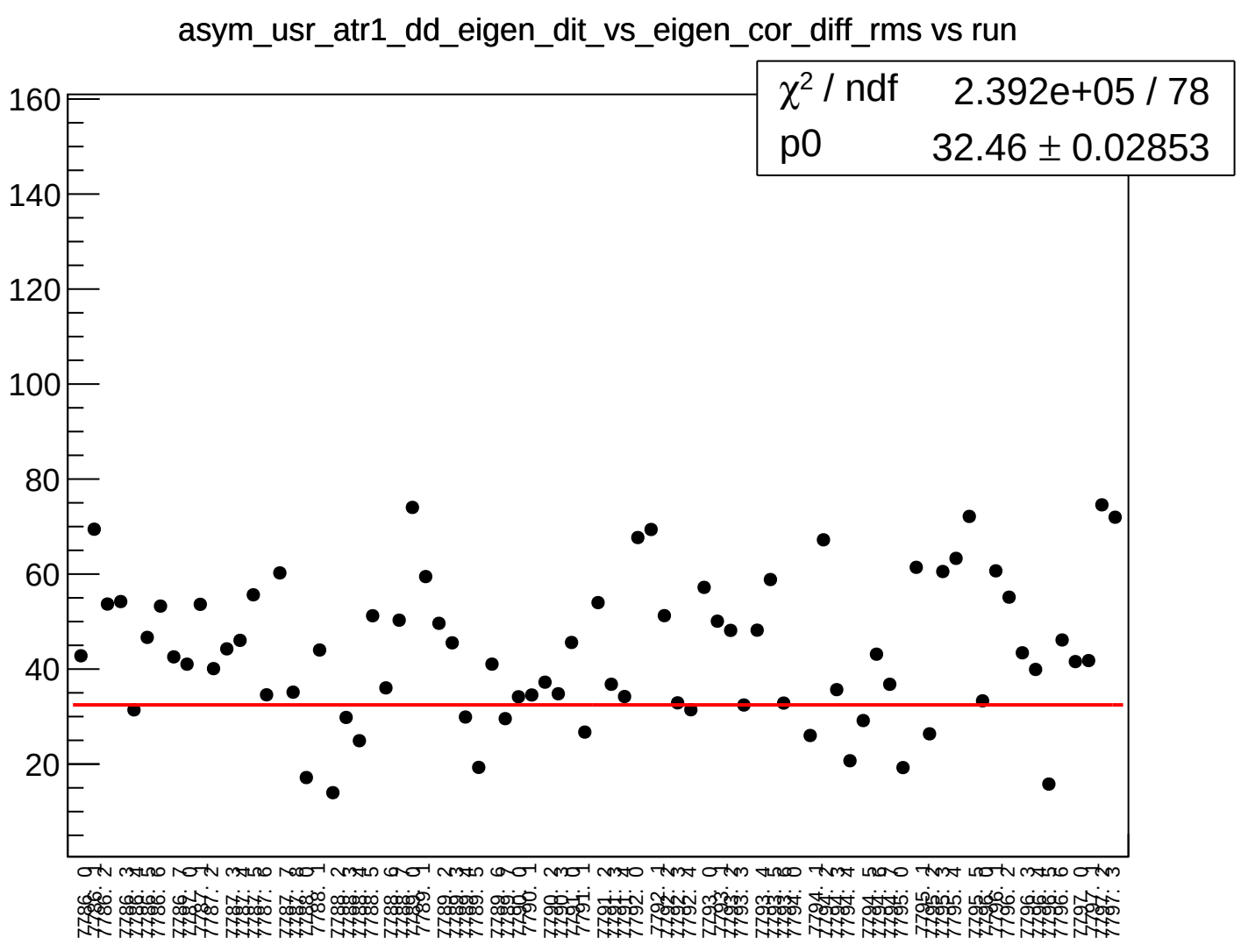

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2461 / 78
p0 0.01066 ± 8.616e–06
0.012
0.0115
0.011
0.0105
0.01

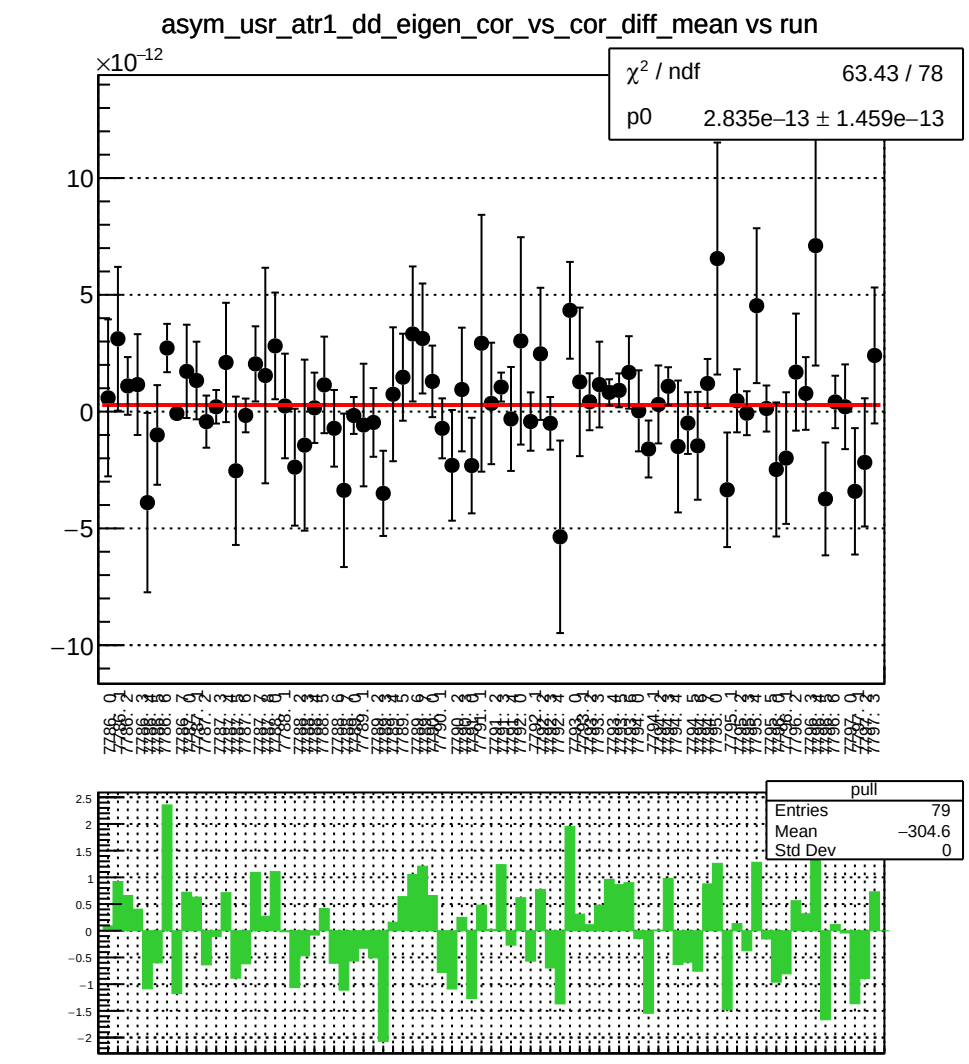

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.63 / 78
p0 0.04994 ± 0.04035
pull
Entries 79
Mean 113.9
Std Dev 0
pull1D
Entries 79
Mean −0.03814
Std Dev 0.9107

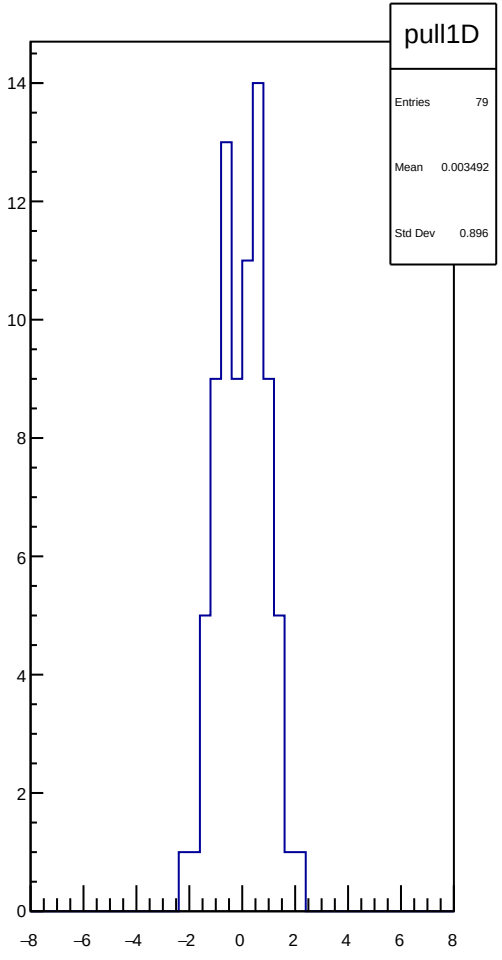

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.392e+05 / 78
p0 32.46 ± 0.02853
160
140
120
100
80
60
40
20

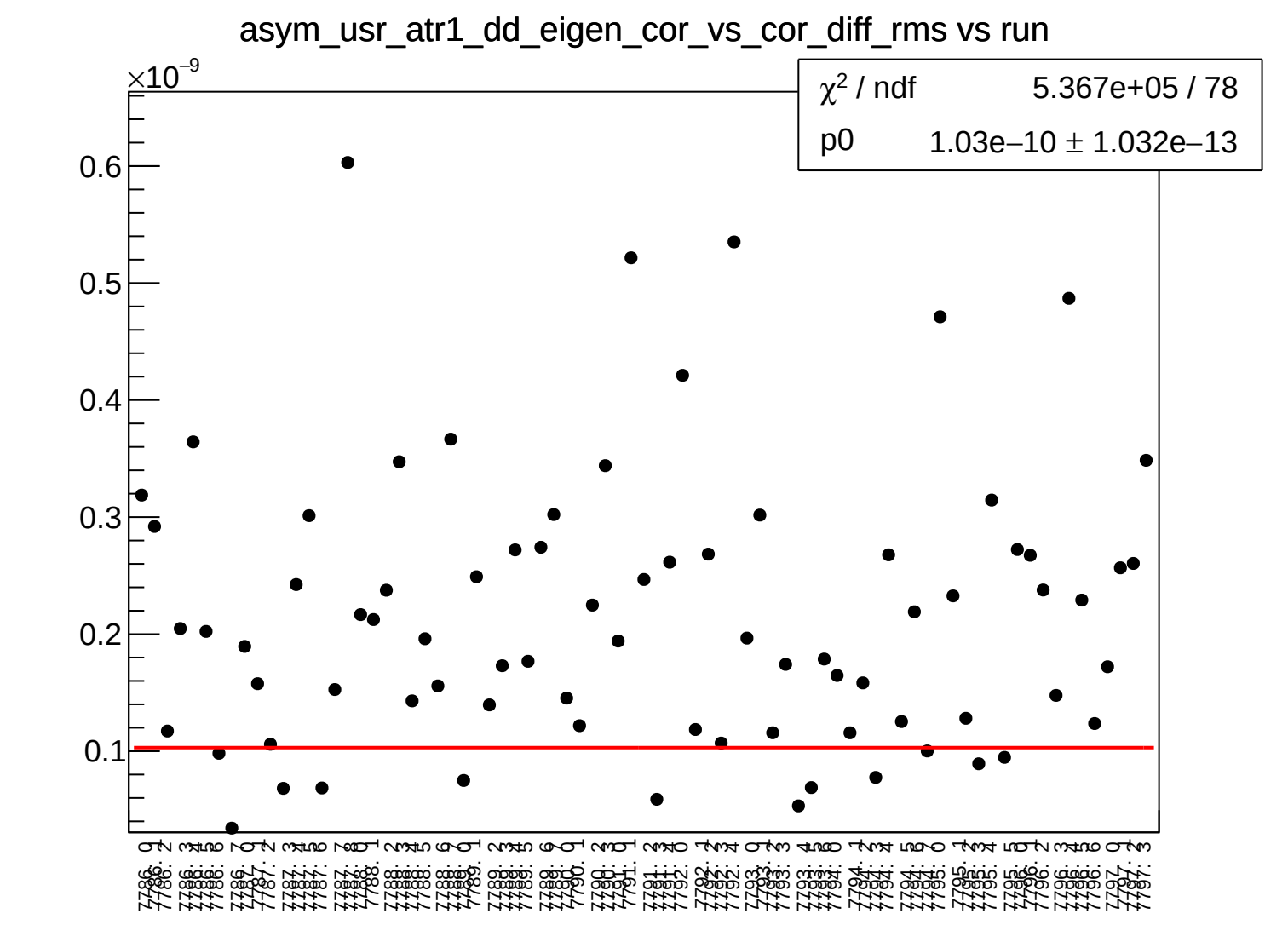

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.63 / 78
p0 0.04994 ± 0.04035
pull
Entries 79
Mean 113.9
Std Dev 0

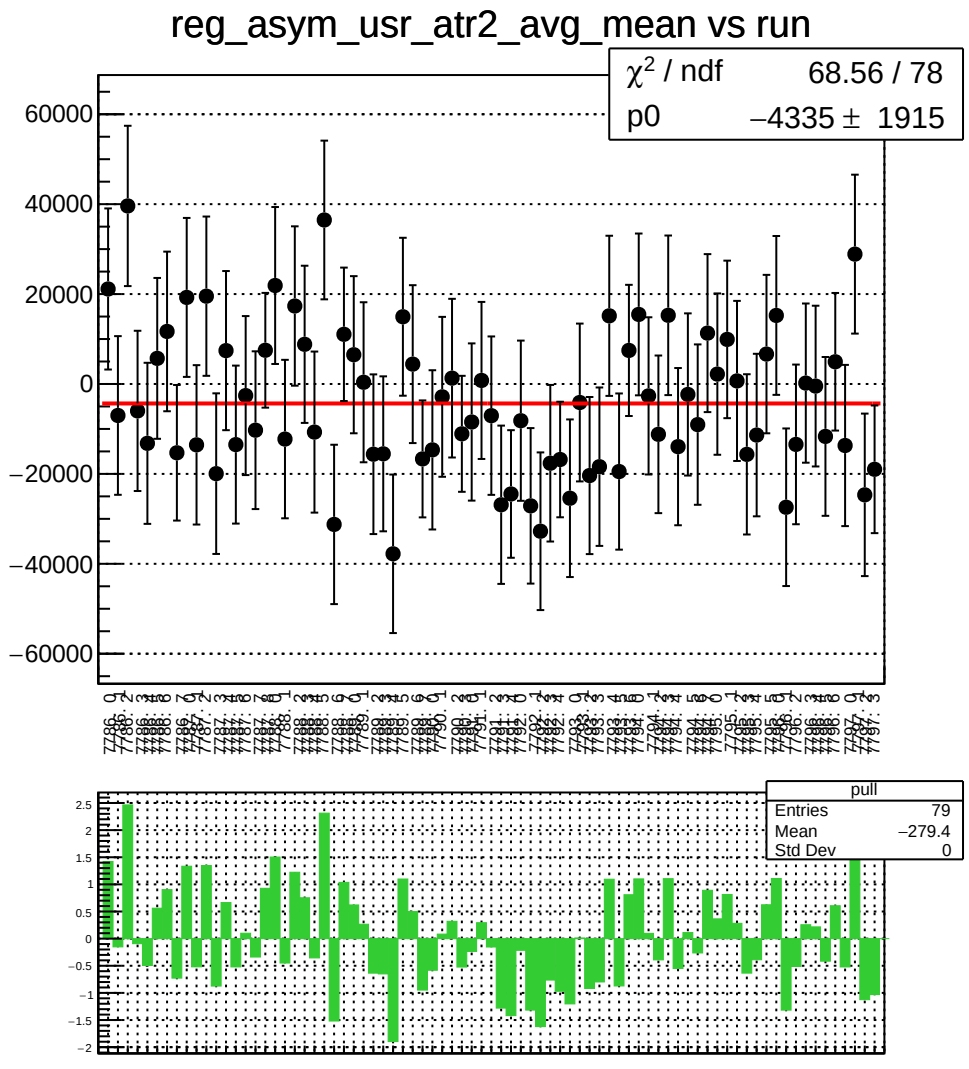

pull1D
Entries 79
Mean −0.03814
Std Dev 0.9107

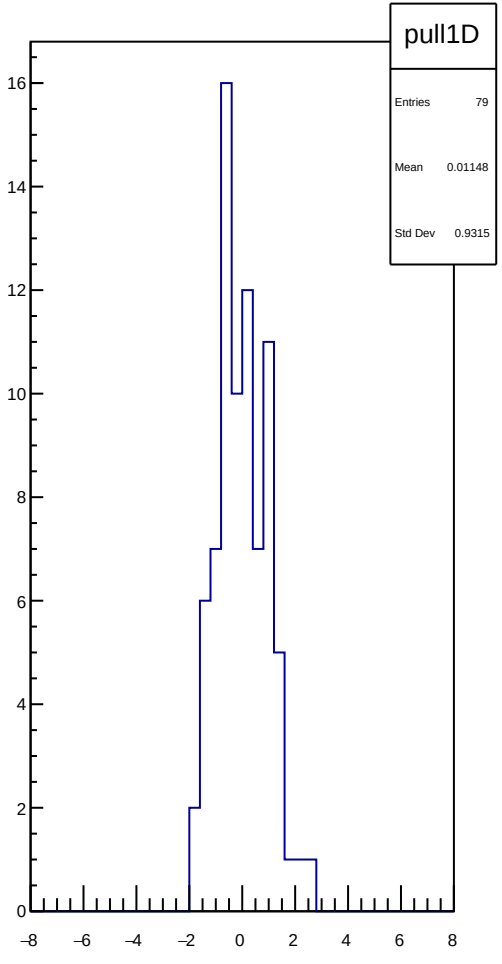

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.392e+05 / 78
p0 32.46 ± 0.02853
160
140
120
100
80
60
40
20

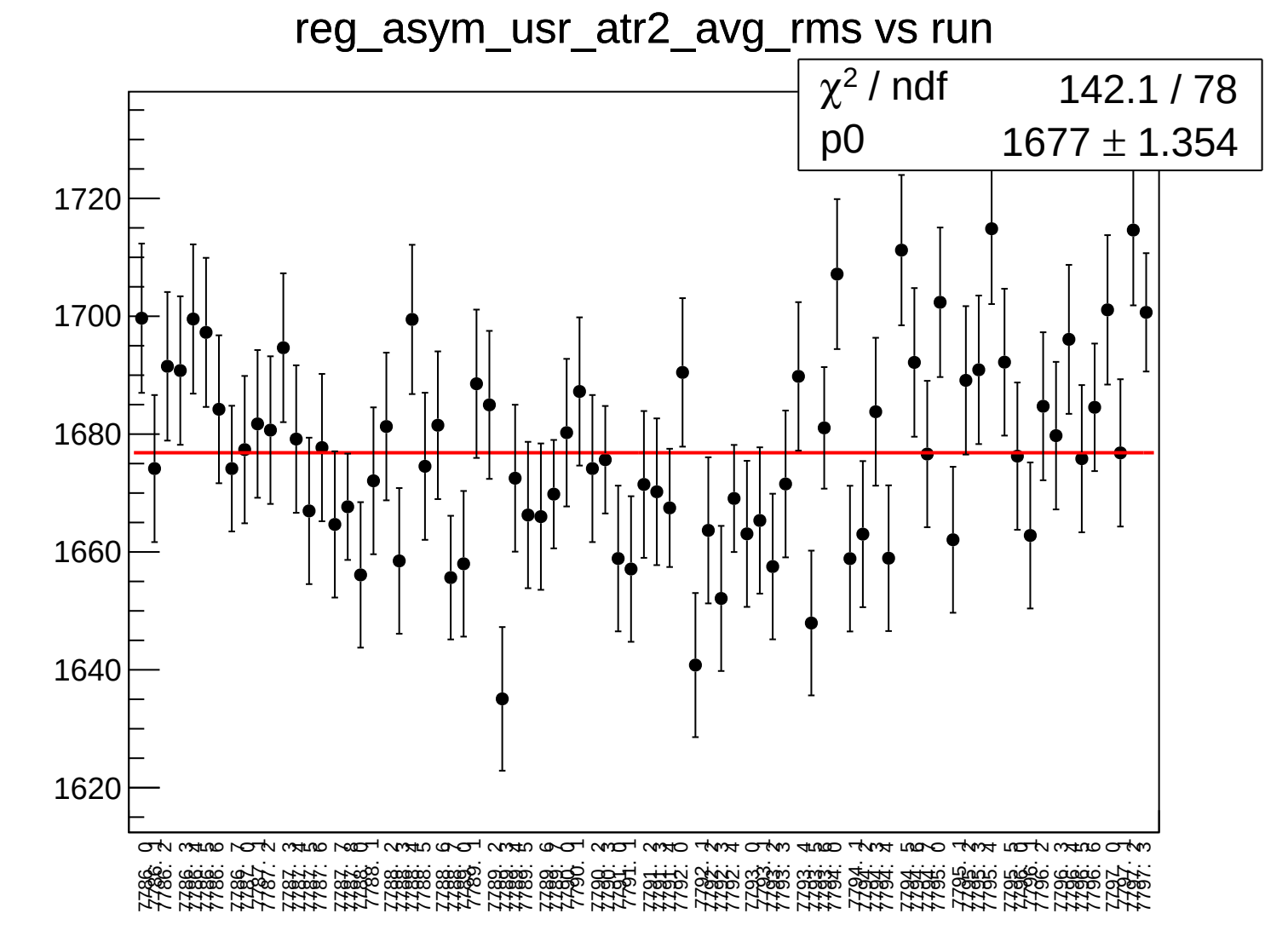

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.43 / 78
p0 2.835e−13 ± 1.459e−13
10
5
0
−5
−10
pull
Entries 79
Mean −304.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

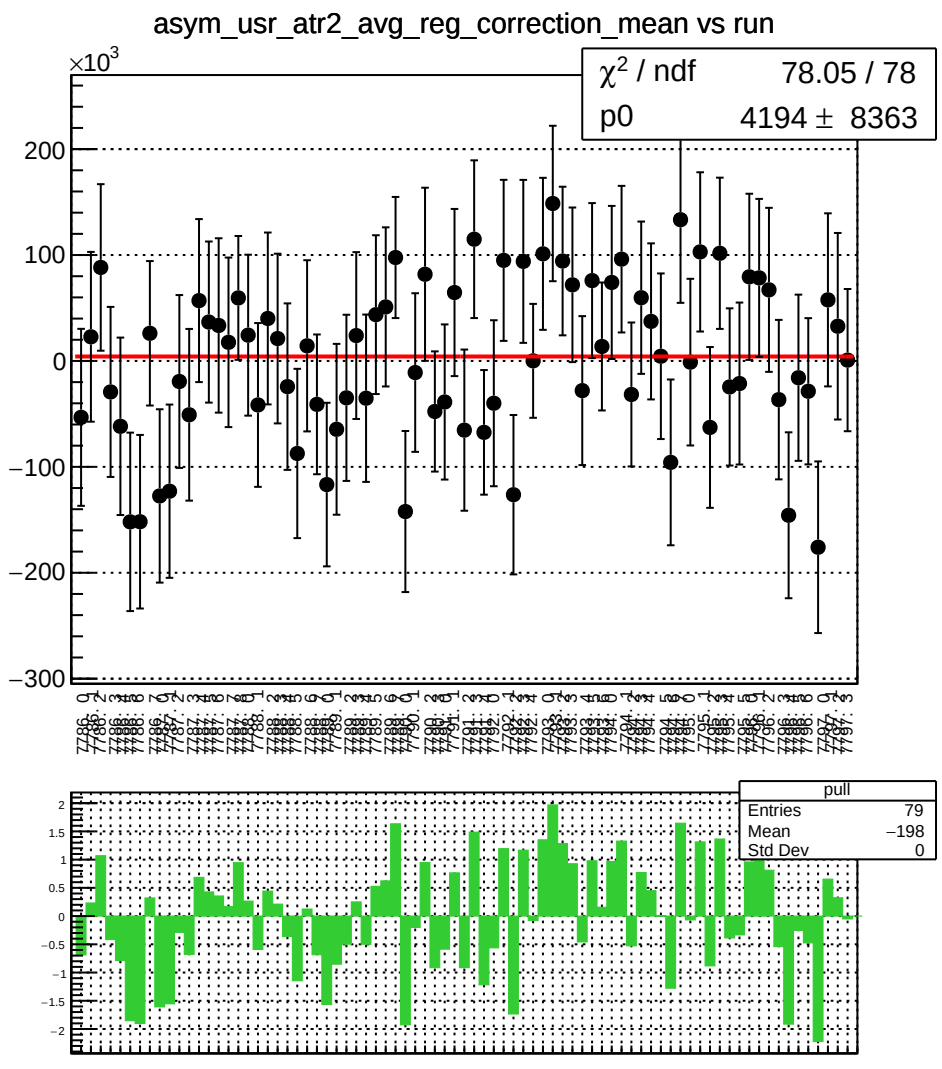

pull1D
Entries 79
Mean 0.003492
Std Dev 0.896
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

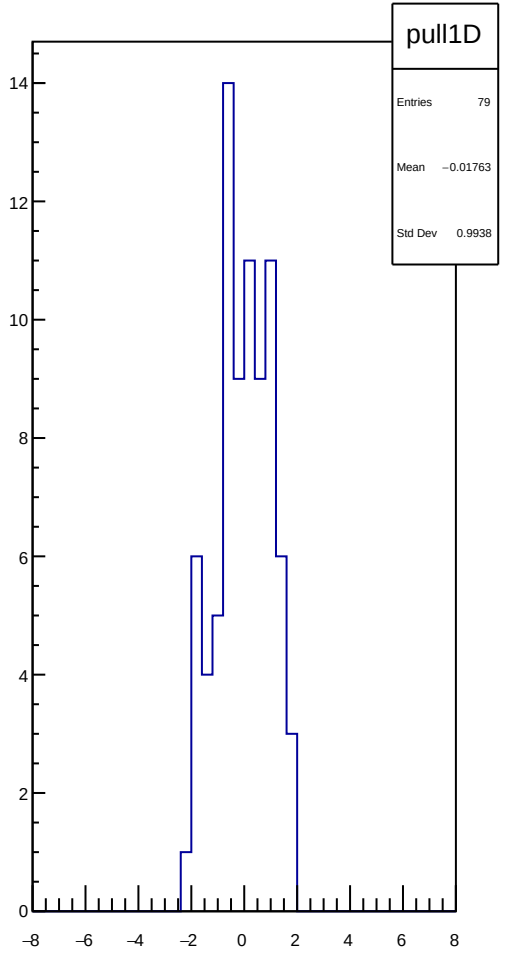

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.367e+05 / 78
p0 1.03e−10 ± 1.032e−13
0.6
0.5
0.4
0.3
0.2
0.1

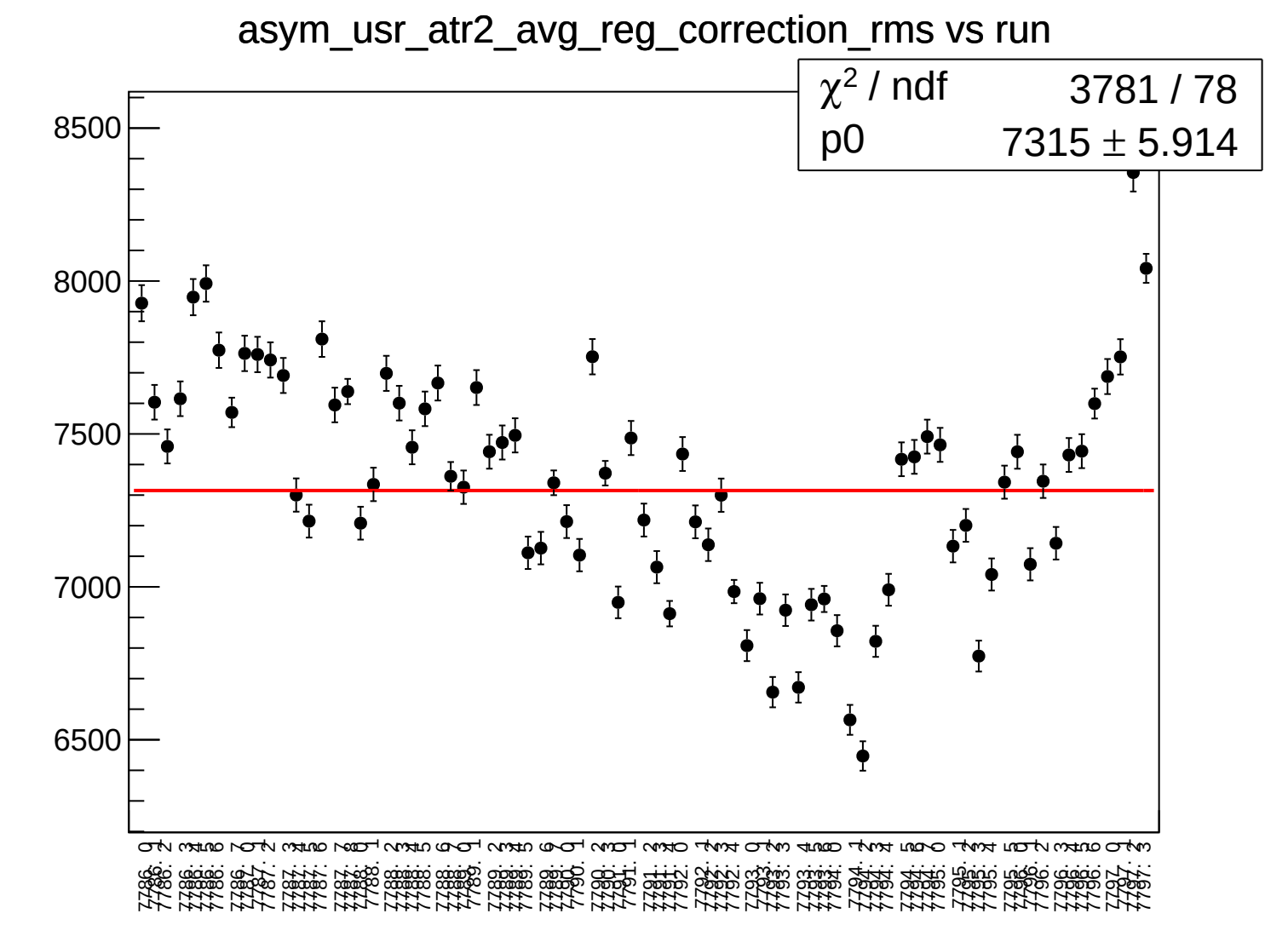

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 68.56 / 78
p0 −4335 ± 1915
pull
Entries 79
Mean −279.4
Std Dev 0

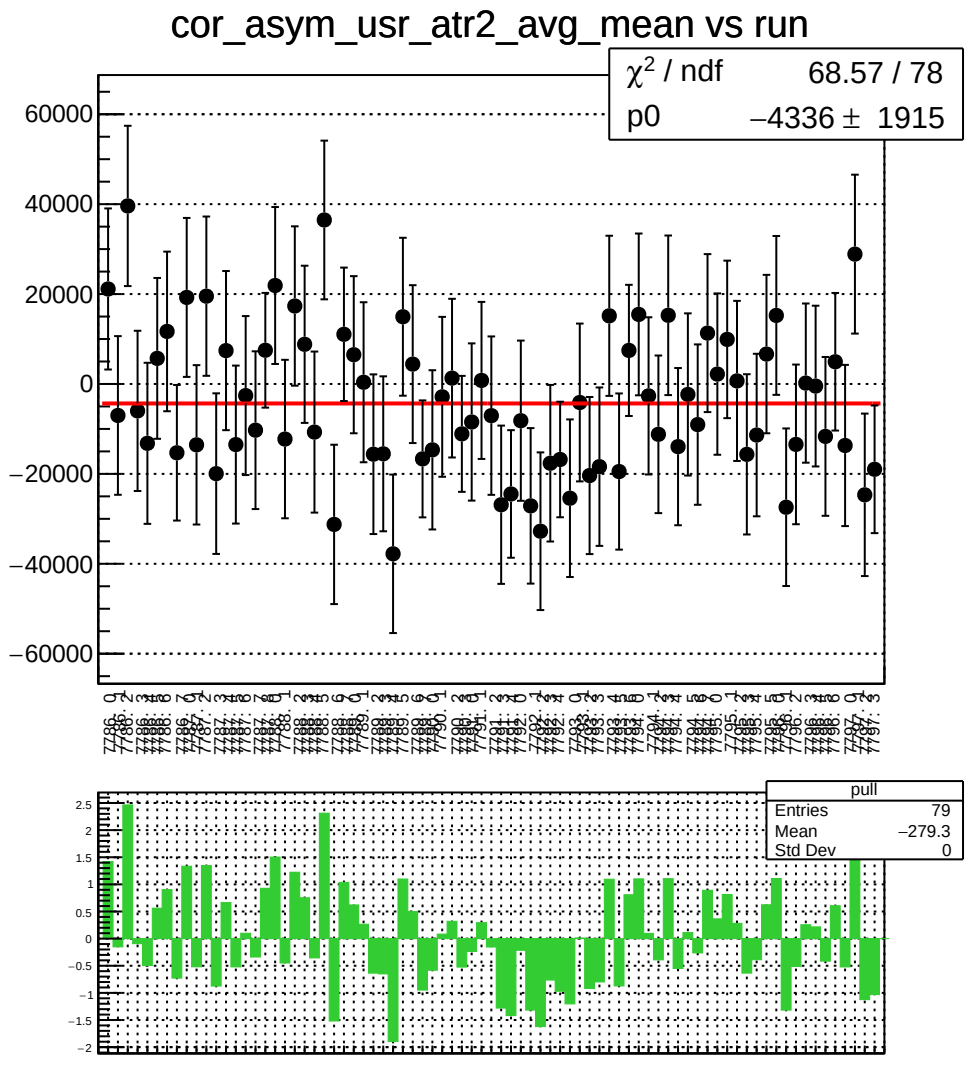

pull1D
Entries 79
Mean 0.01148
Std Dev 0.9315

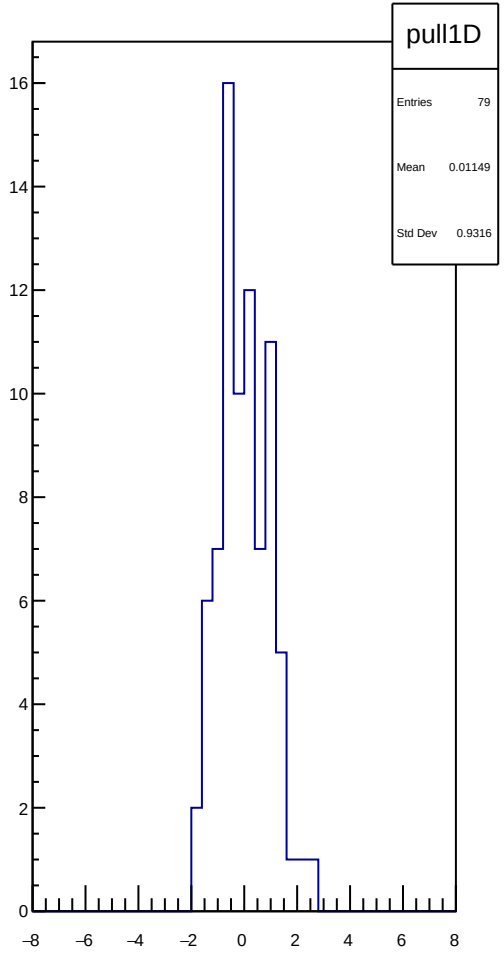

reg_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 142.1 / 78
p0 1677 ± 1.354
1720
1700
1680
1660
1640
1620

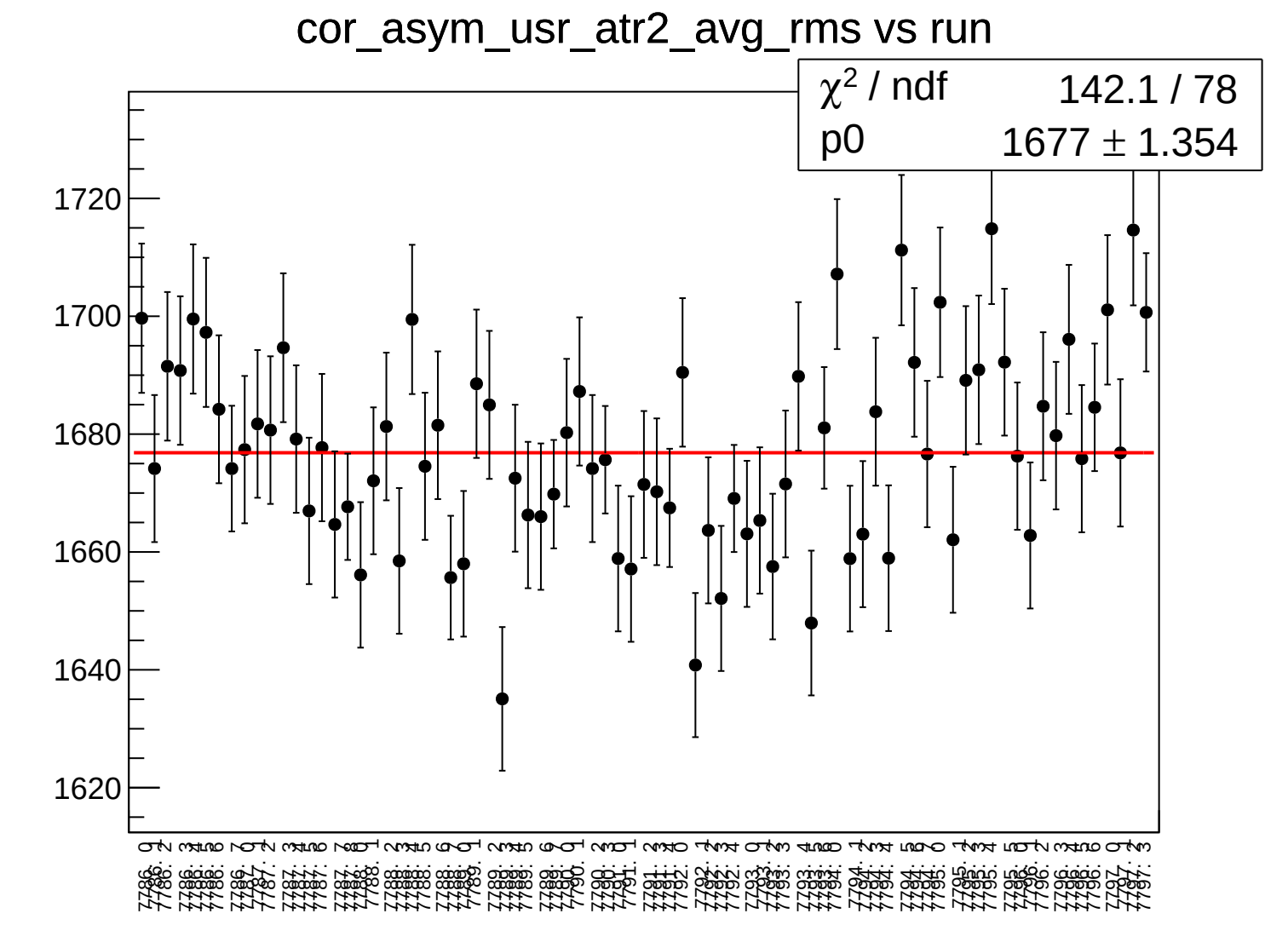

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.05 / 78
p0 4194 ± 8363
200
100
0
−100
−200
−300
pull
Entries 79
Mean −198
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

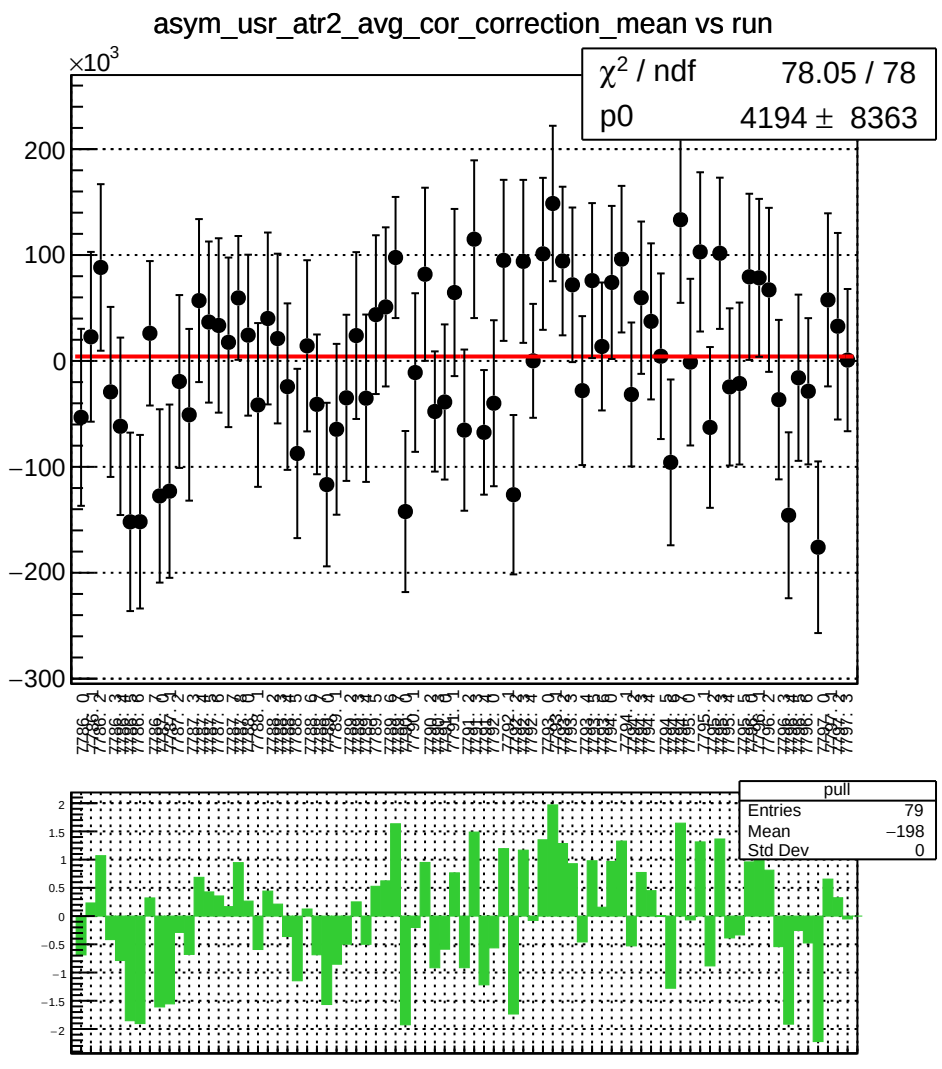

pull1D
Entries 79
Mean −0.01763
Std Dev 0.9938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

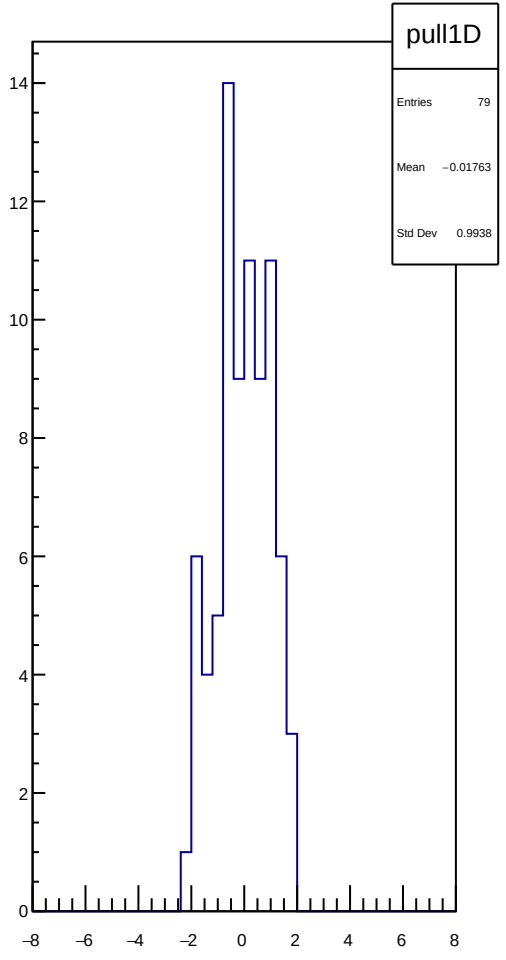

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 3781 / 78
p0 7315 ± 5.914
8500
8000
7500
7000
6500

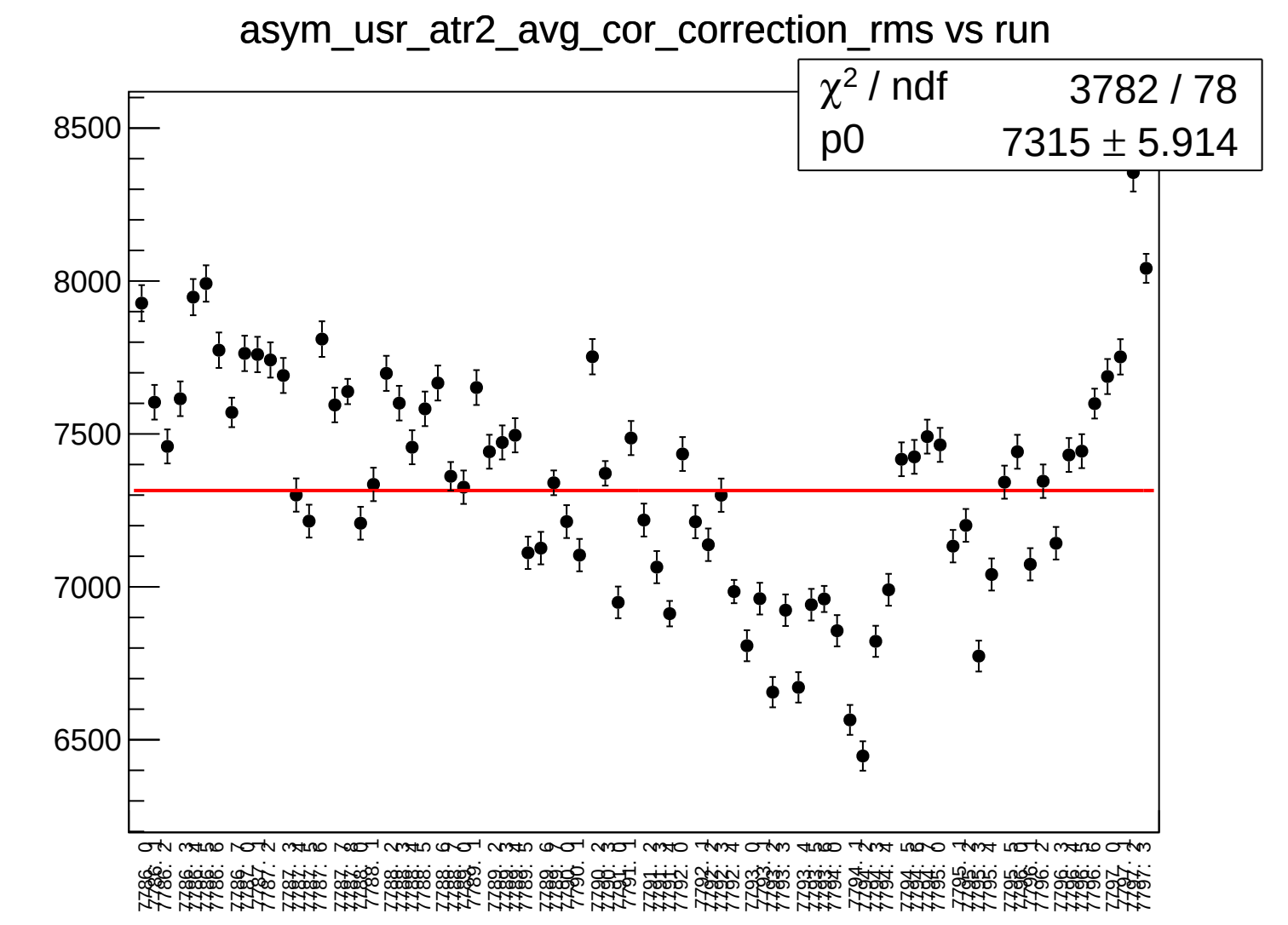

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 68.57 / 78
p0 −4336 ± 1915
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −279.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

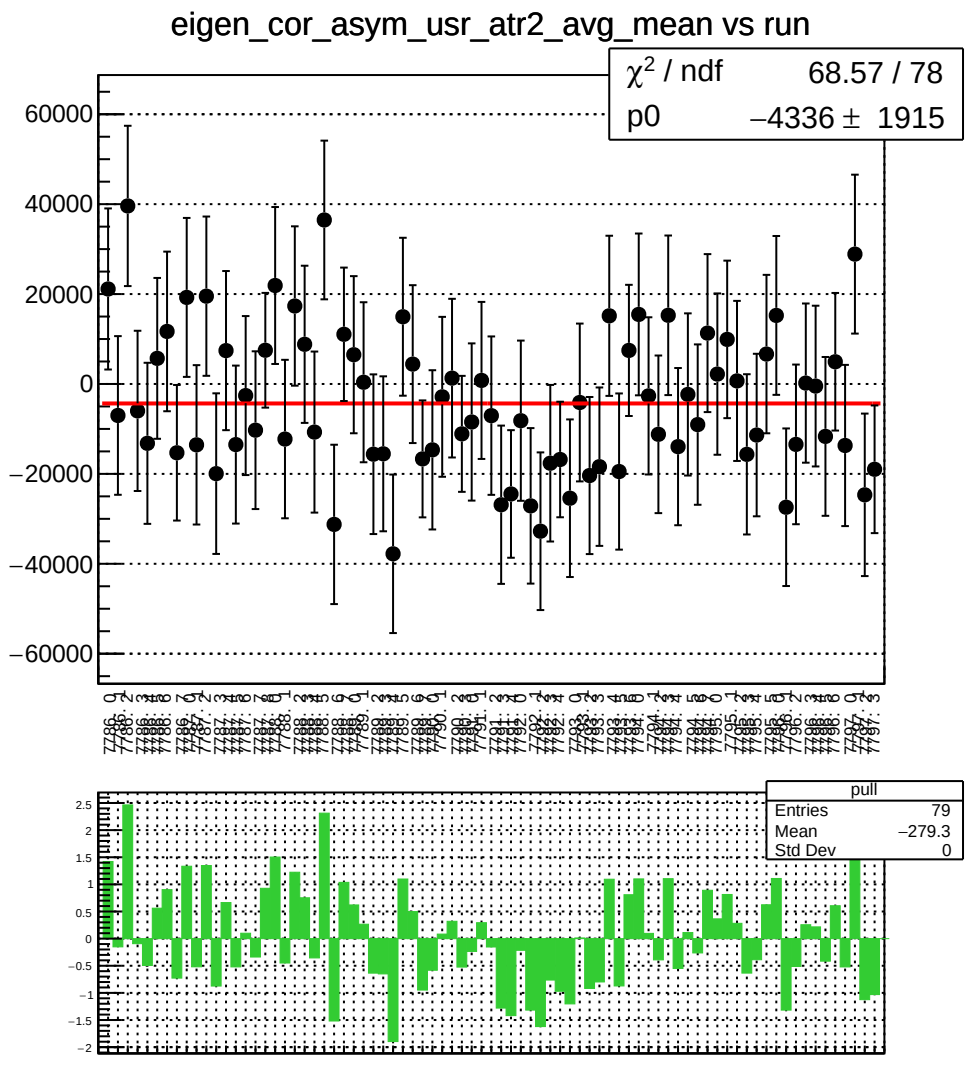

pull1D
Entries 79
Mean 0.01149
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

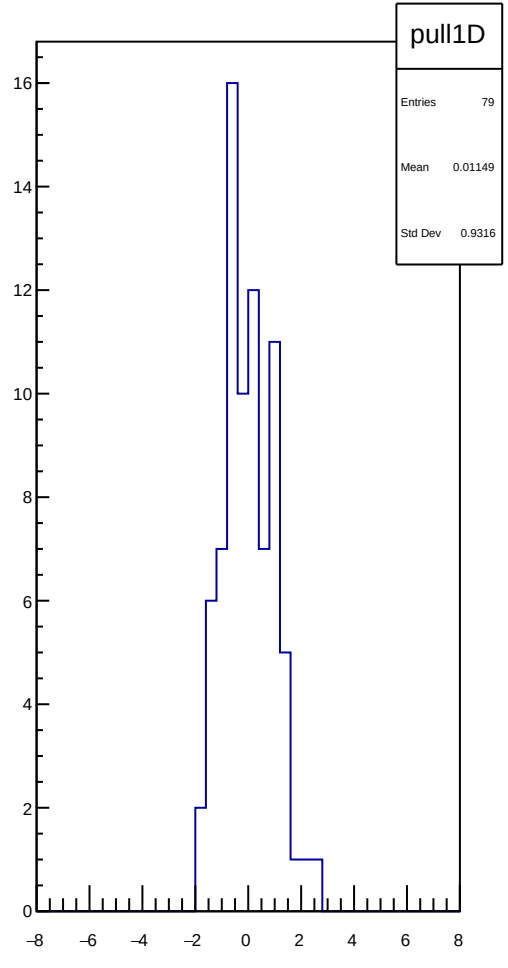

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 142.1 / 78
p0 1677 ± 1.354
1720
1700
1680
1660
1640
1620

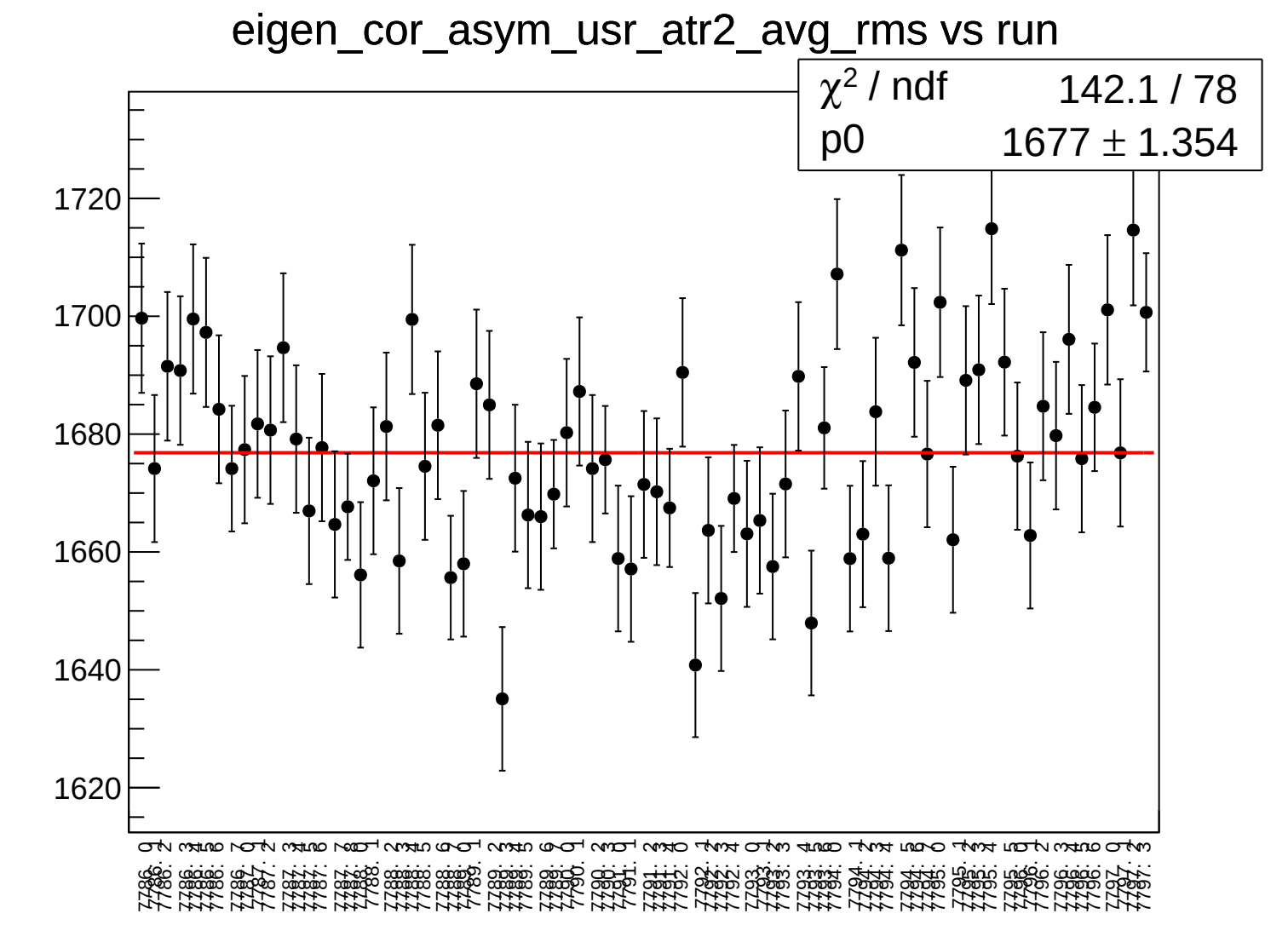

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.05 / 78
p0 4194 ± 8363
200
100
0
−100
−200
−300
pull
Entries 79
Mean −198
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

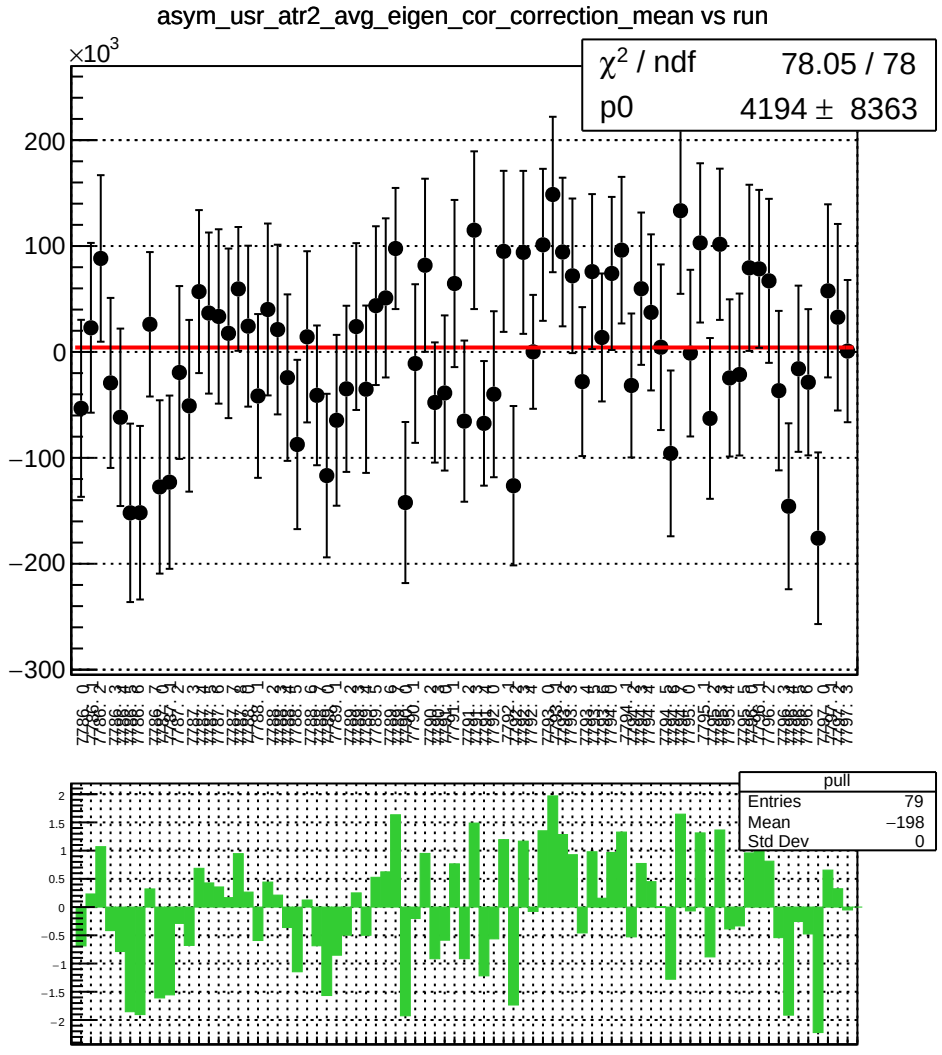

pull1D
Entries 79
Mean −0.01763
Std Dev 0.9938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

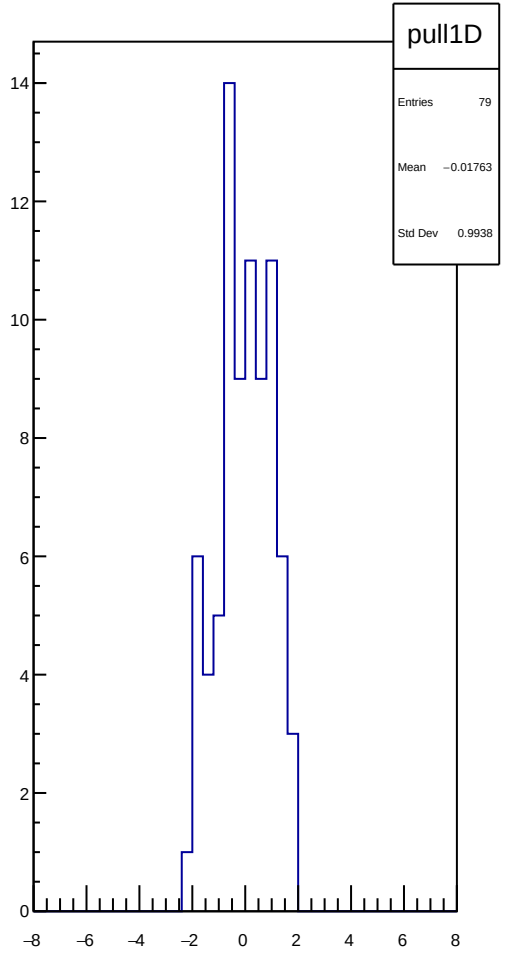

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 3782 / 78
p0 7315 ± 5.914
8500
8000
7500
7000
6500

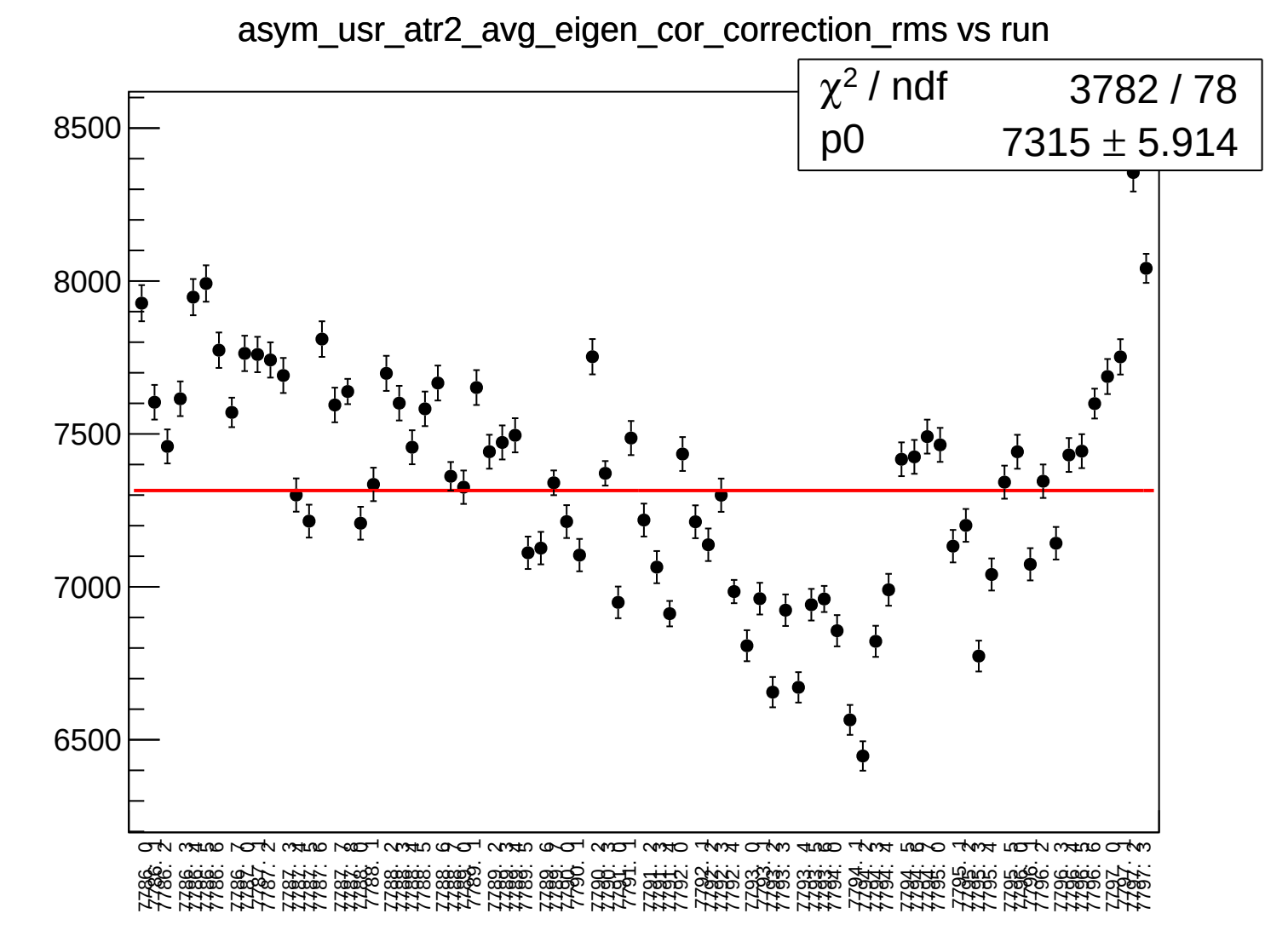

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 68.57 / 78
p0 −4336 ± 1915
pull
Entries 79
Mean −279.3
Std Dev 0

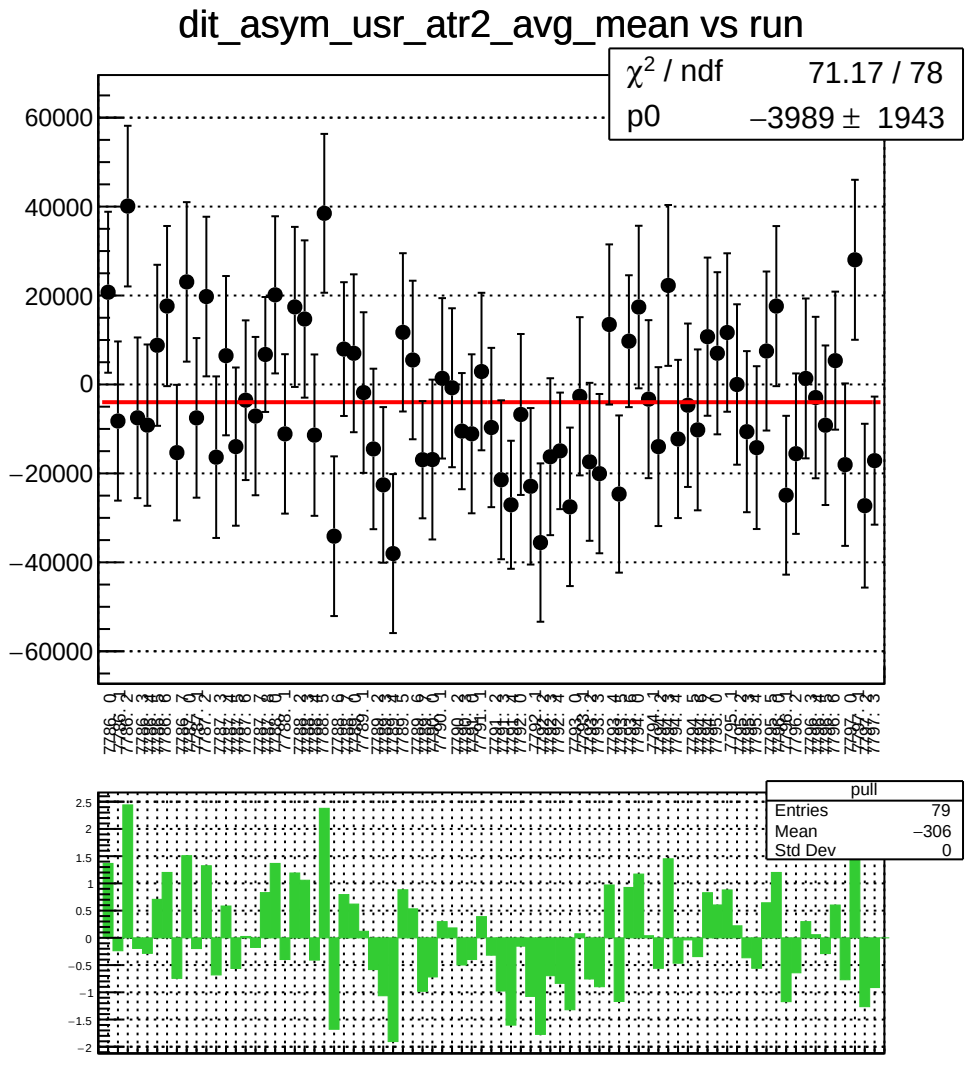

pull1D
Entries 79
Mean 0.01149
Std Dev 0.9316

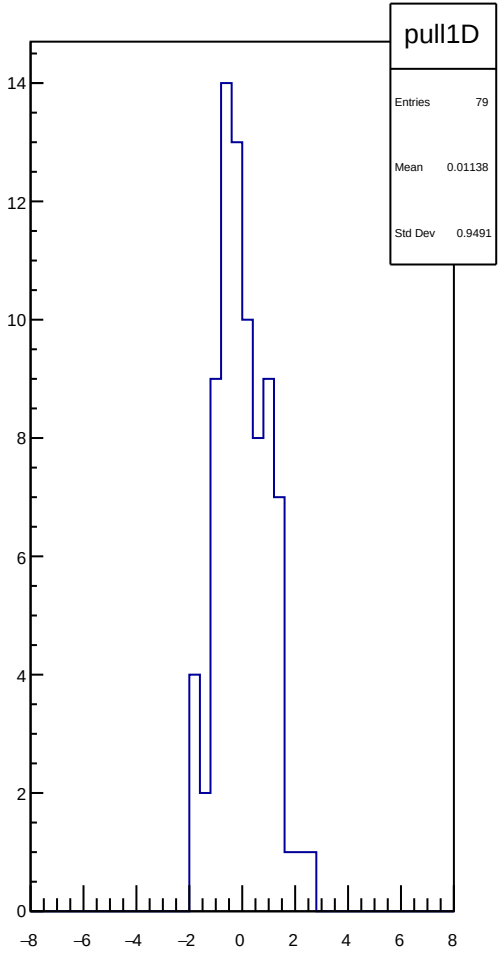

eigen_cor_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 142.1 / 78
p0 1677 ± 1.354
1720
1700
1680
1660
1640
1620

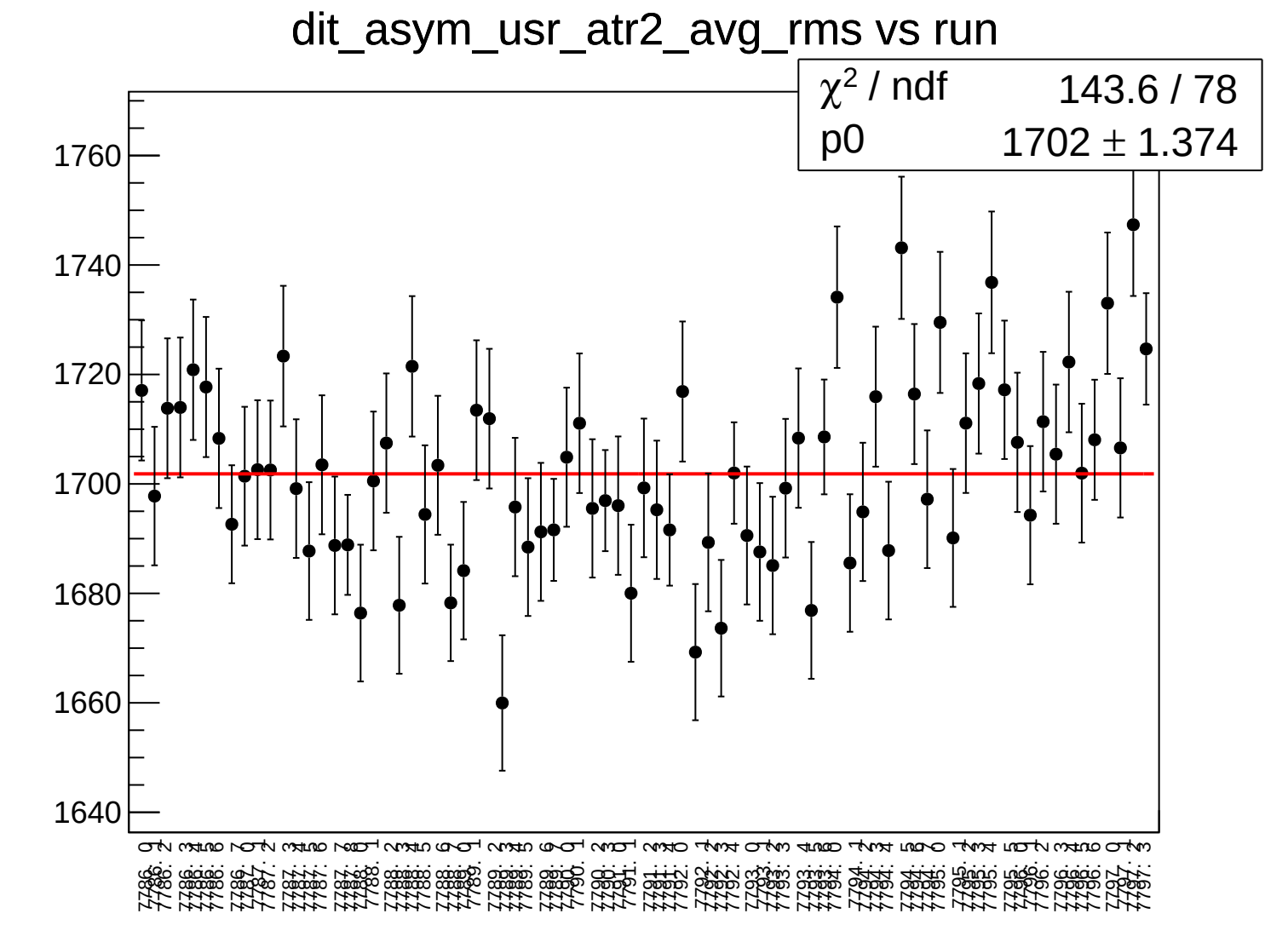

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.05 / 78
p0 4194 ± 8363
200
100
0
−100
−200
−300
pull
Entries 79
Mean −198
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

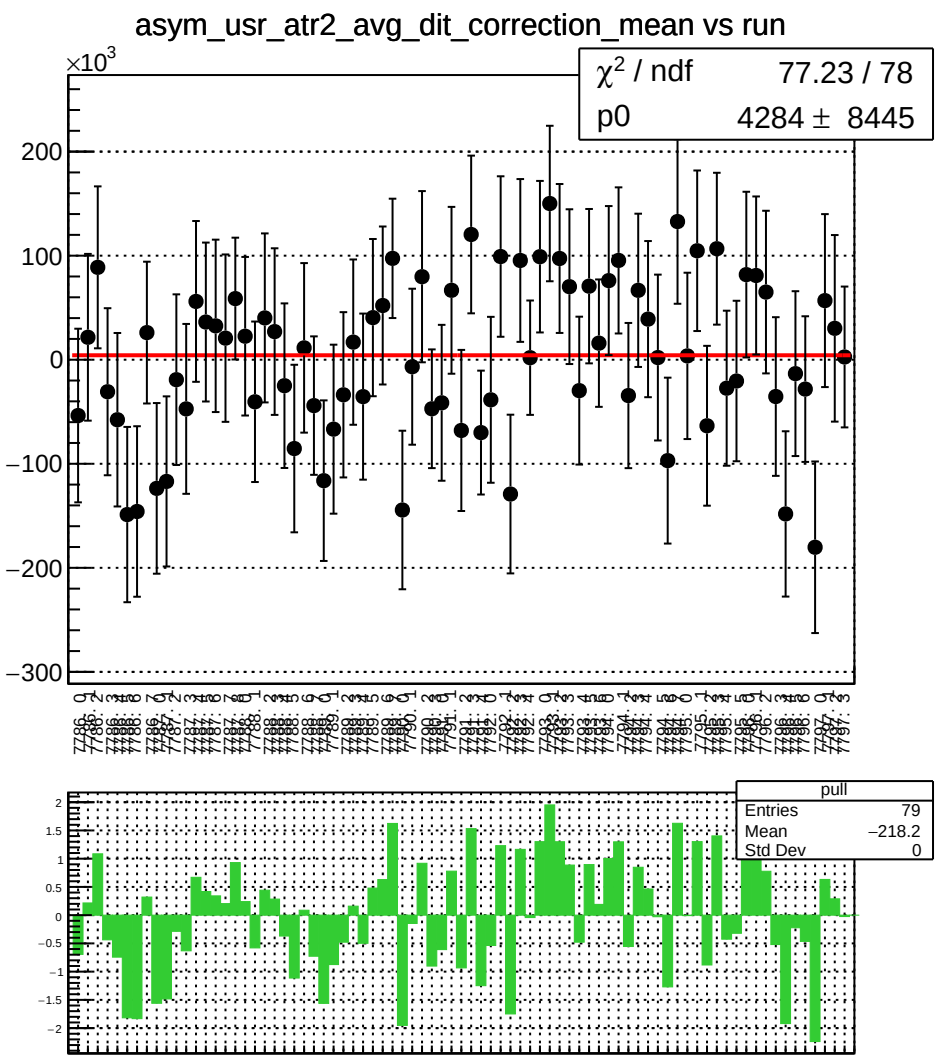

pull1D
Entries 79
Mean −0.01763
Std Dev 0.9938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

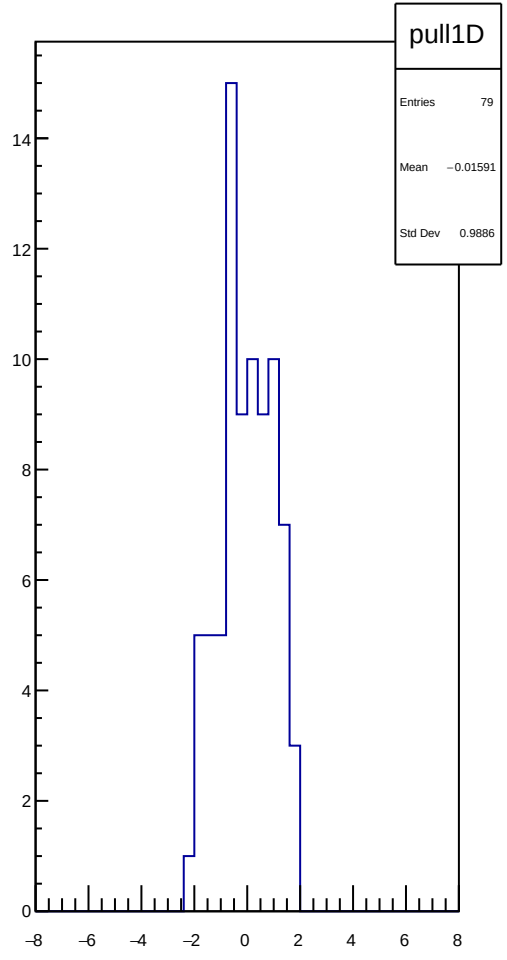

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3782 / 78
p0 7315 ± 5.914
8500
8000
7500
7000
6500

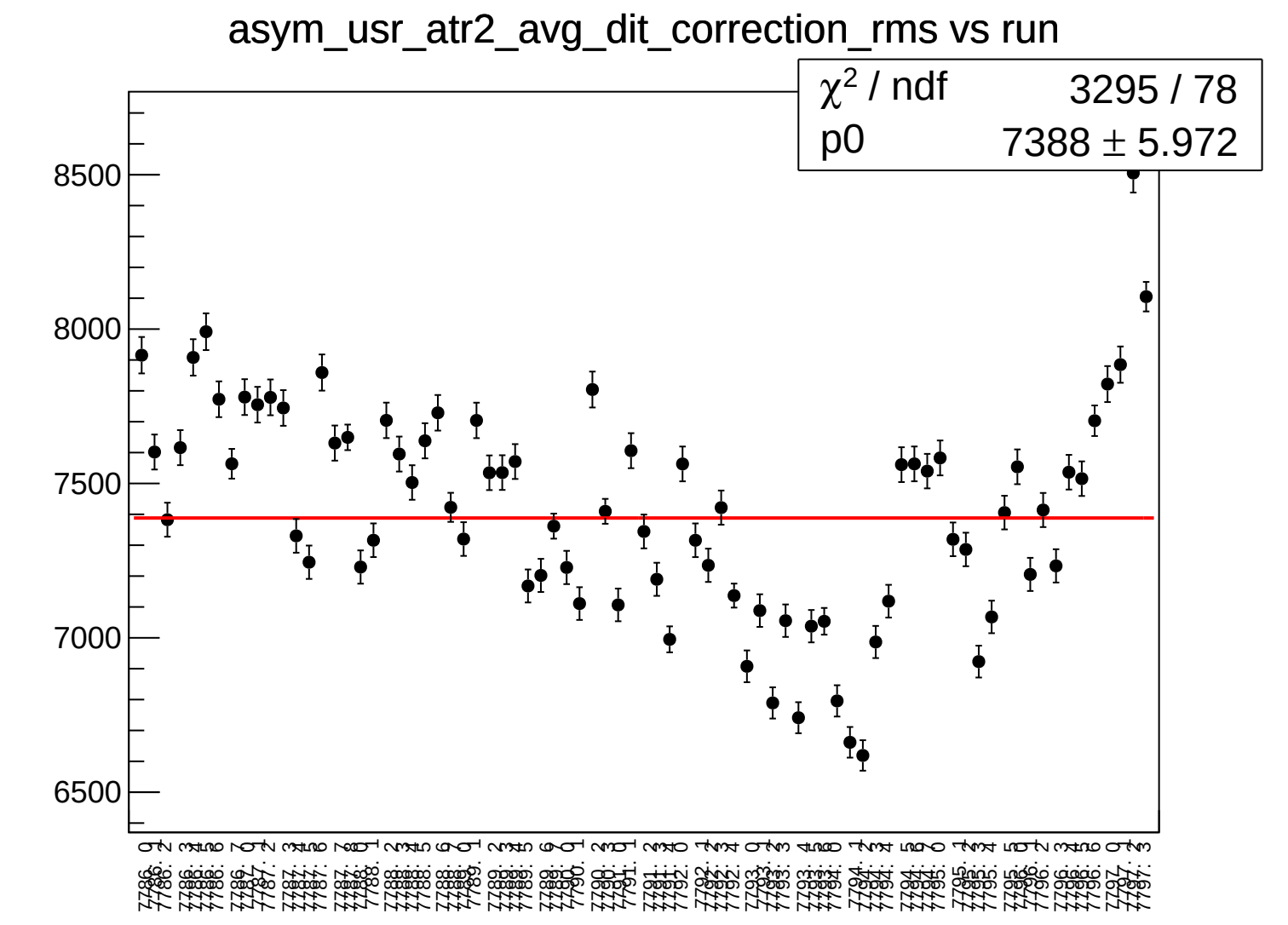

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 71.17 / 78
p0 −3989 ± 1943
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −306
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

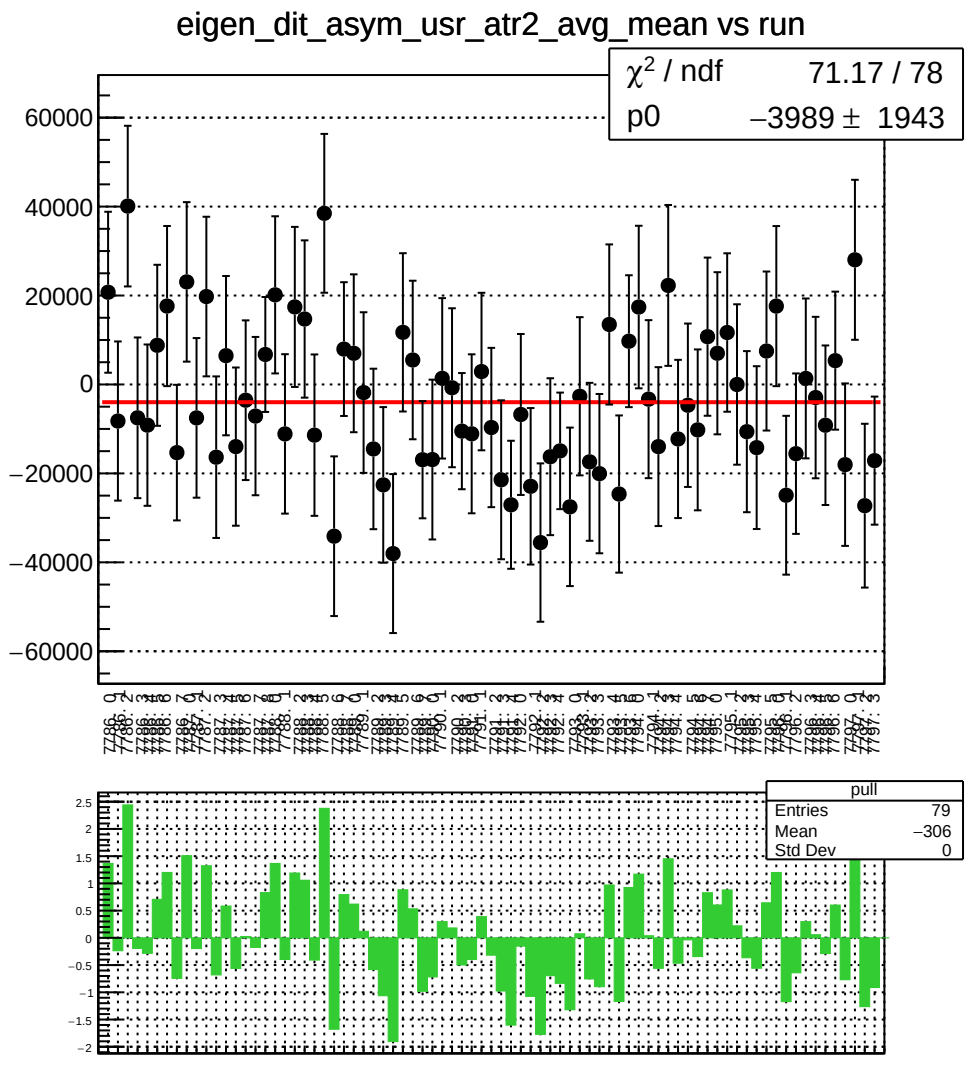

pull1D
Entries 79
Mean 0.01138
Std Dev 0.9491
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

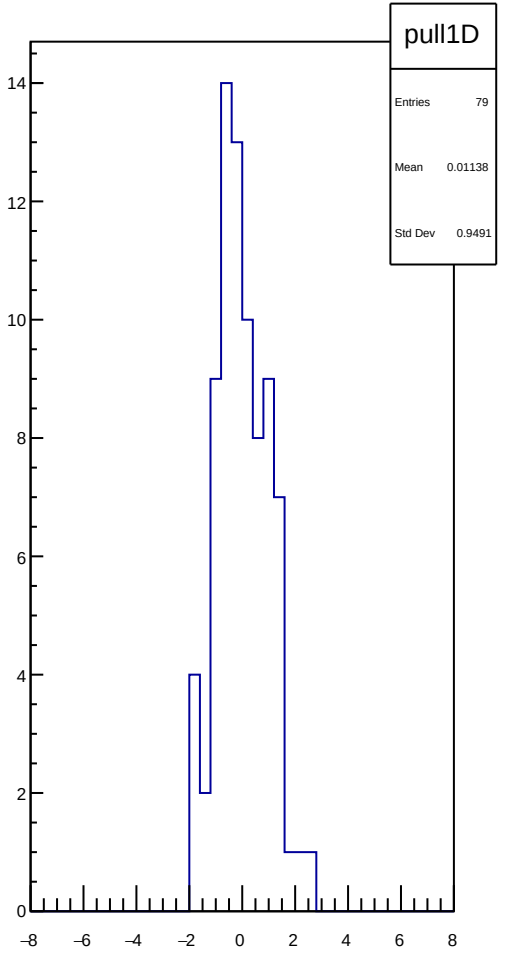

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 143.6 / 78
p0 1702 ± 1.374
1760
1740
1720
1700
1680
1660
1640

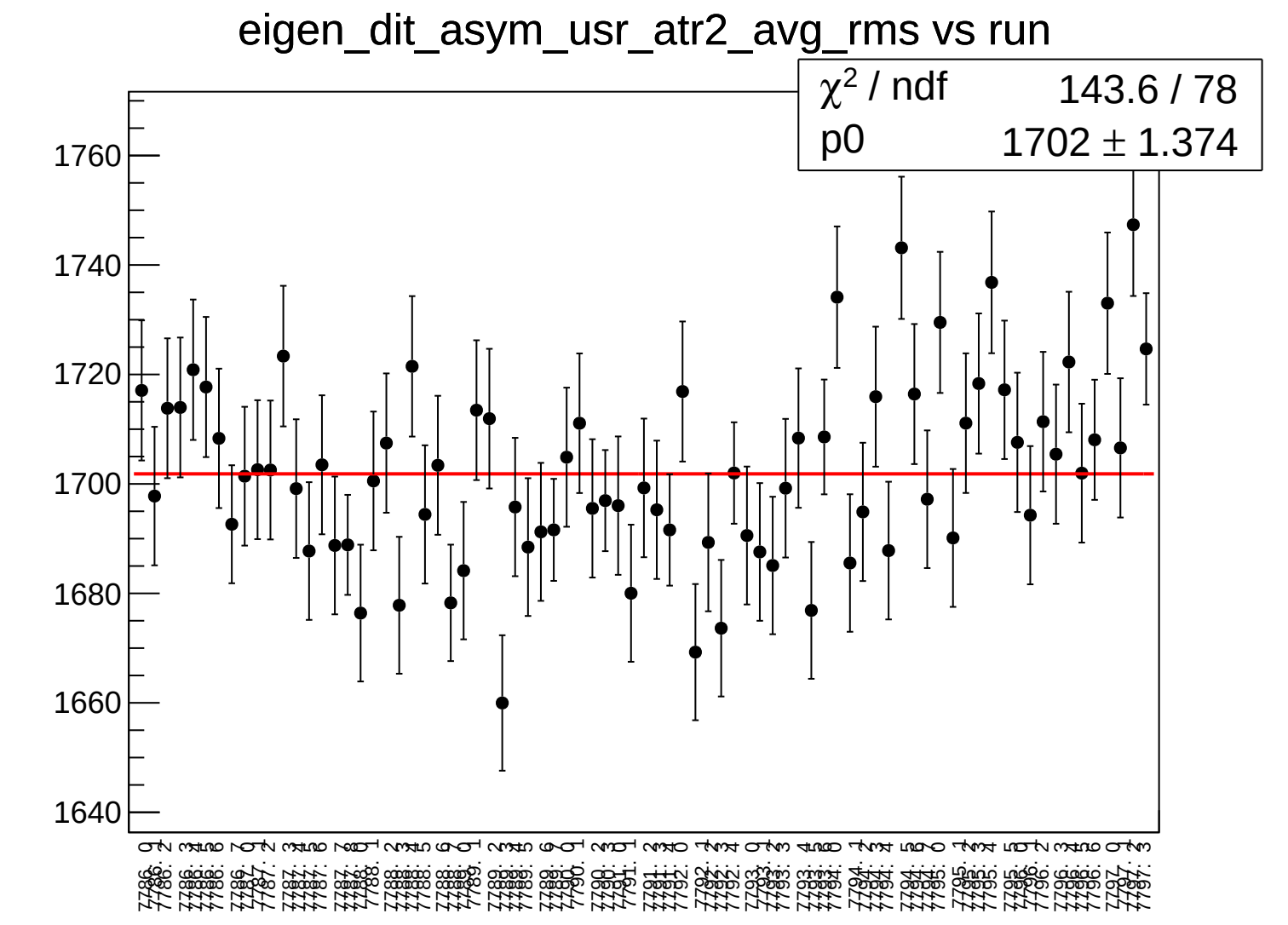

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.23 / 78
p0 4284 ± 8445
200
100
0
−100
−200
−300
pull
Entries 79
Mean −218.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

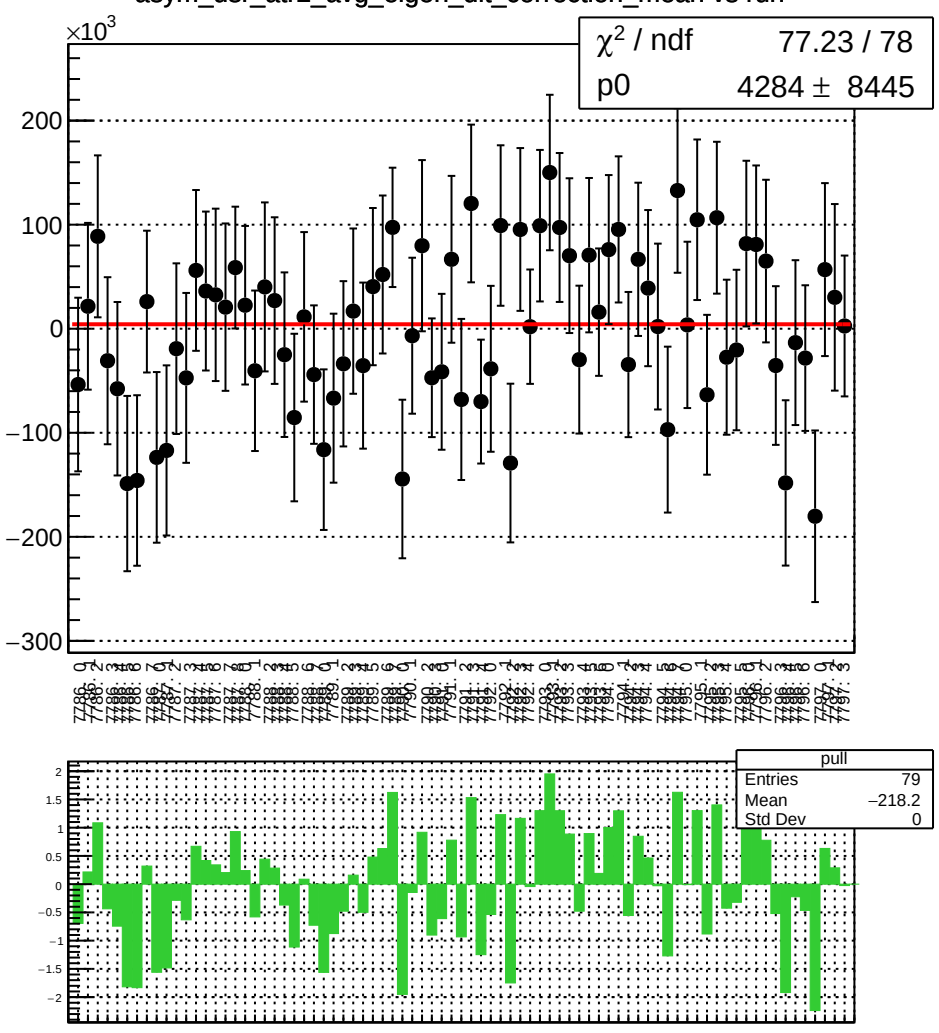

pull1D
Entries 79
Mean −0.01591
Std Dev 0.9886
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

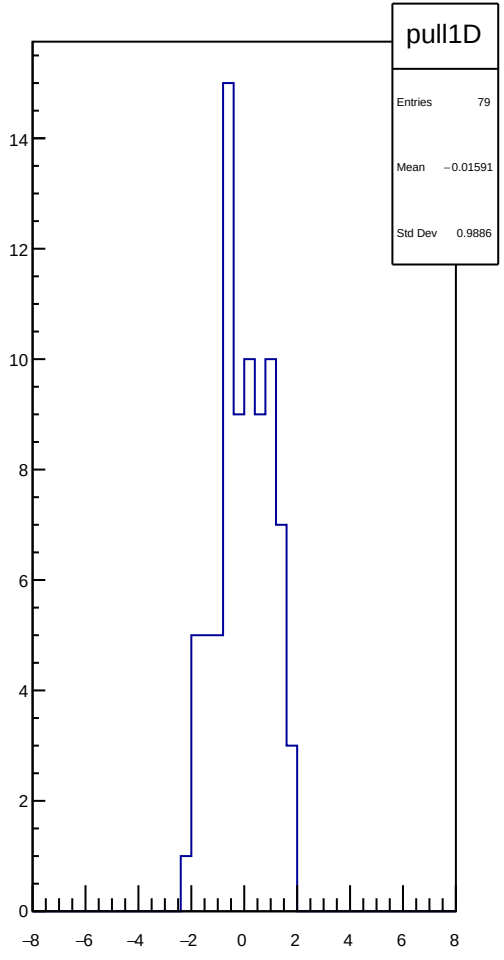

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 3295 / 78
p0 7388 ± 5.972
8500
8000
7500
7000
6500

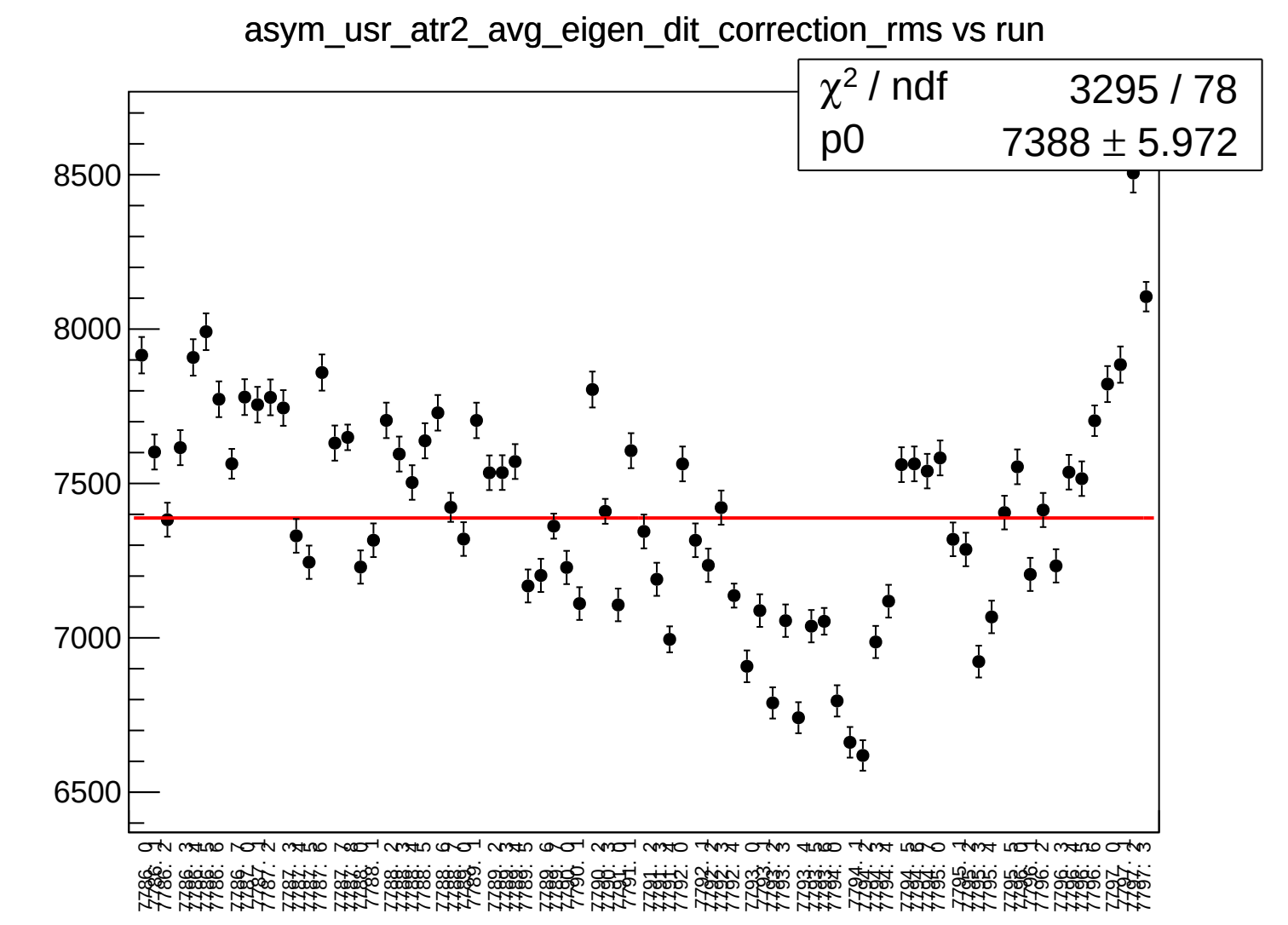

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 71.17 / 78
p0 −3989 ± 1943
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −306
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

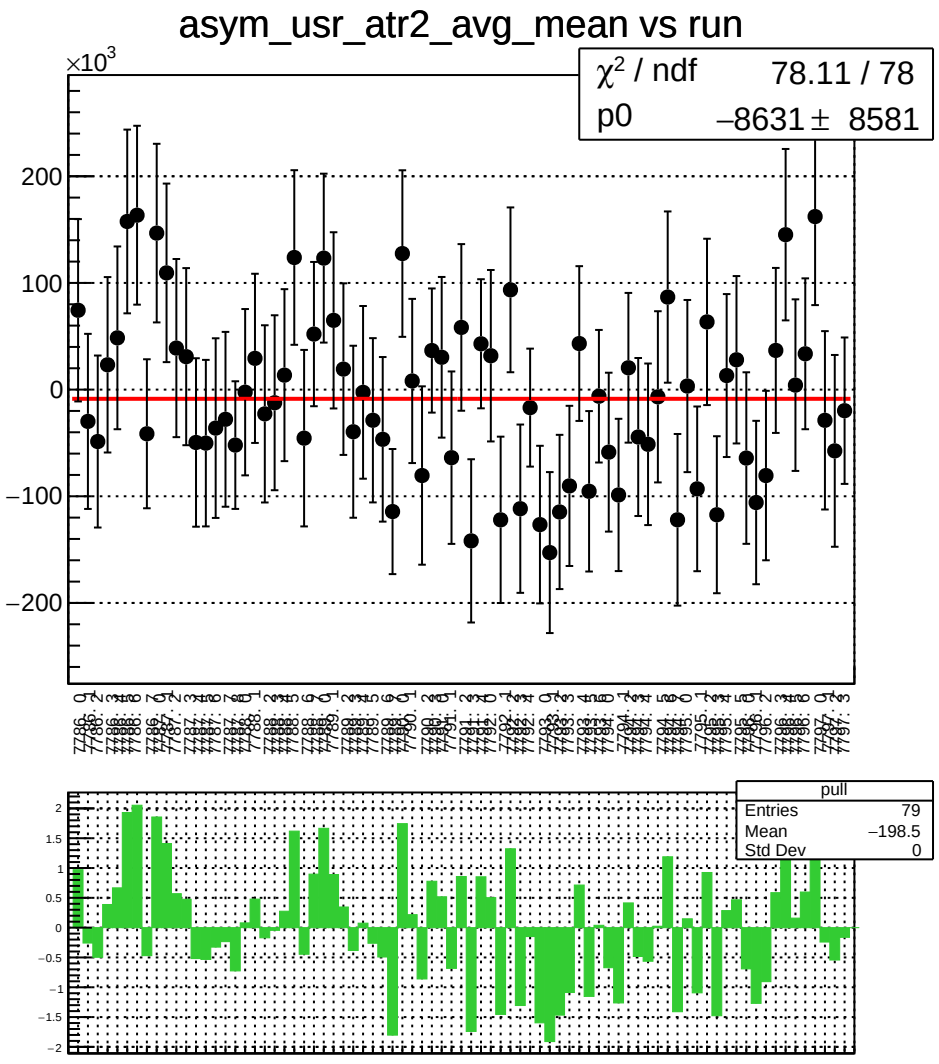

pull1D
Entries 79
Mean 0.01138
Std Dev 0.9491
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

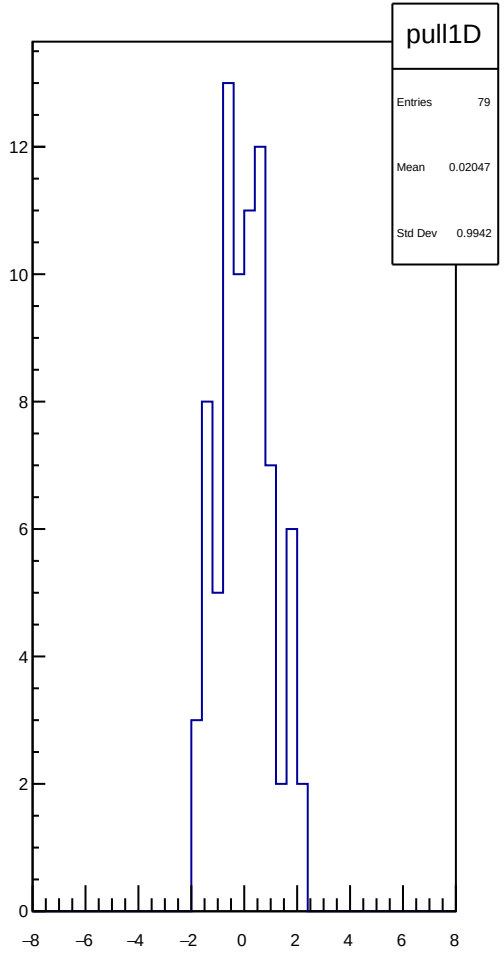

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 143.6 / 78
p0 1702 ± 1.374
1760
1740
1720
1700
1680
1660
1640

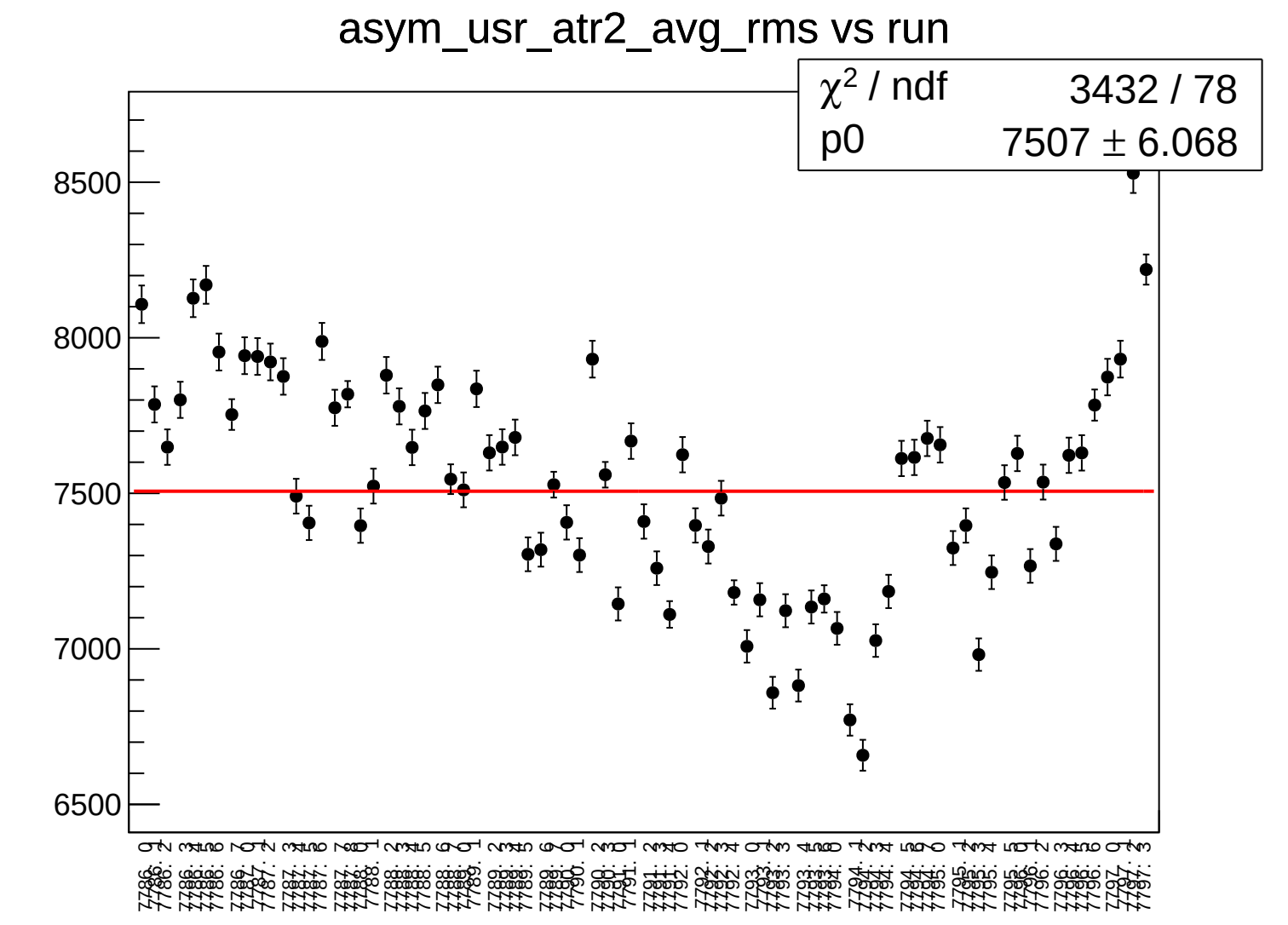

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.23 / 78
p0 4284 ± 8445
200
100
0
−100
−200
−300
pull
Entries 79
Mean −218.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

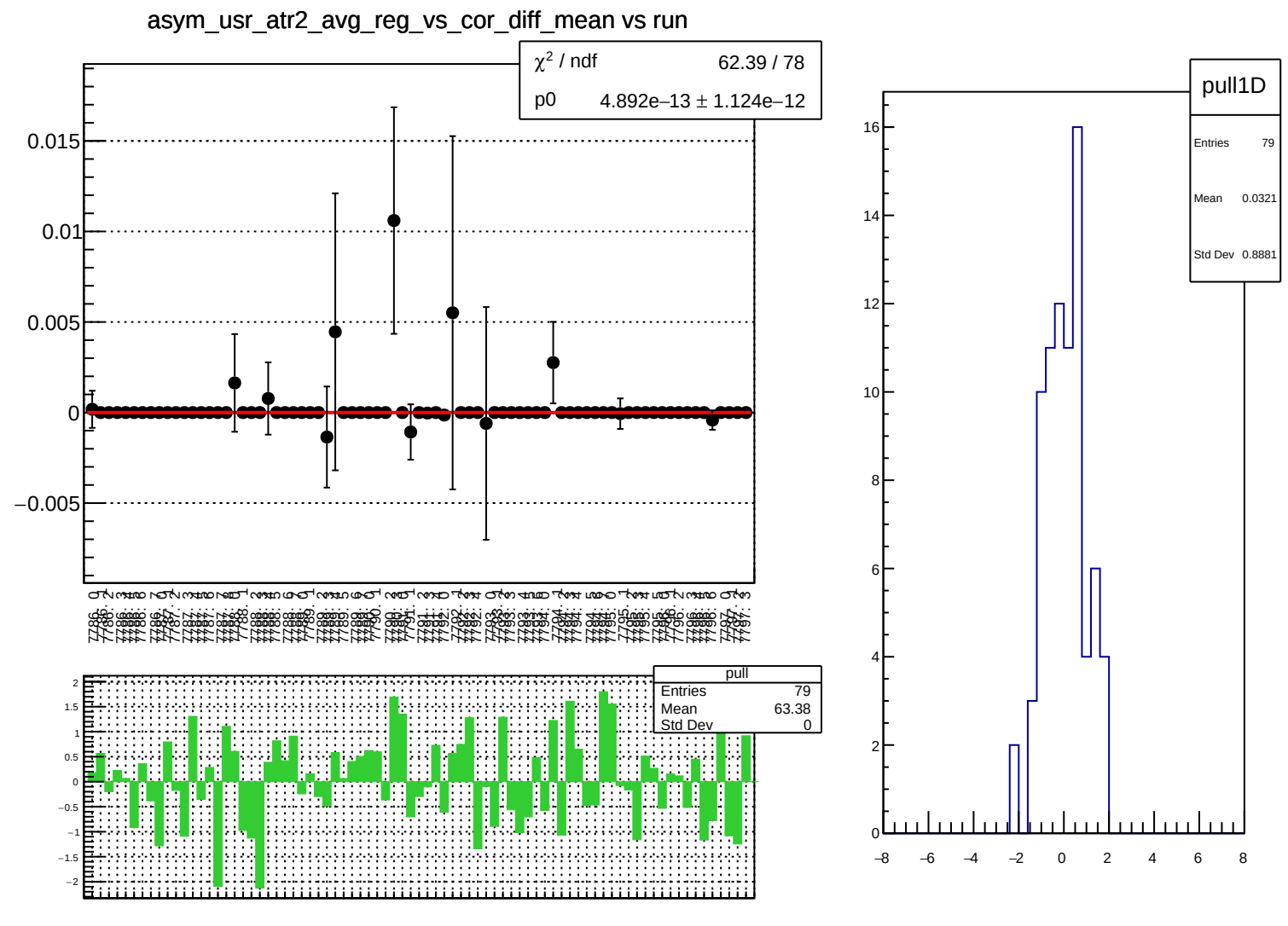

pull1D
Entries 79
Mean −0.01591
Std Dev 0.9886
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

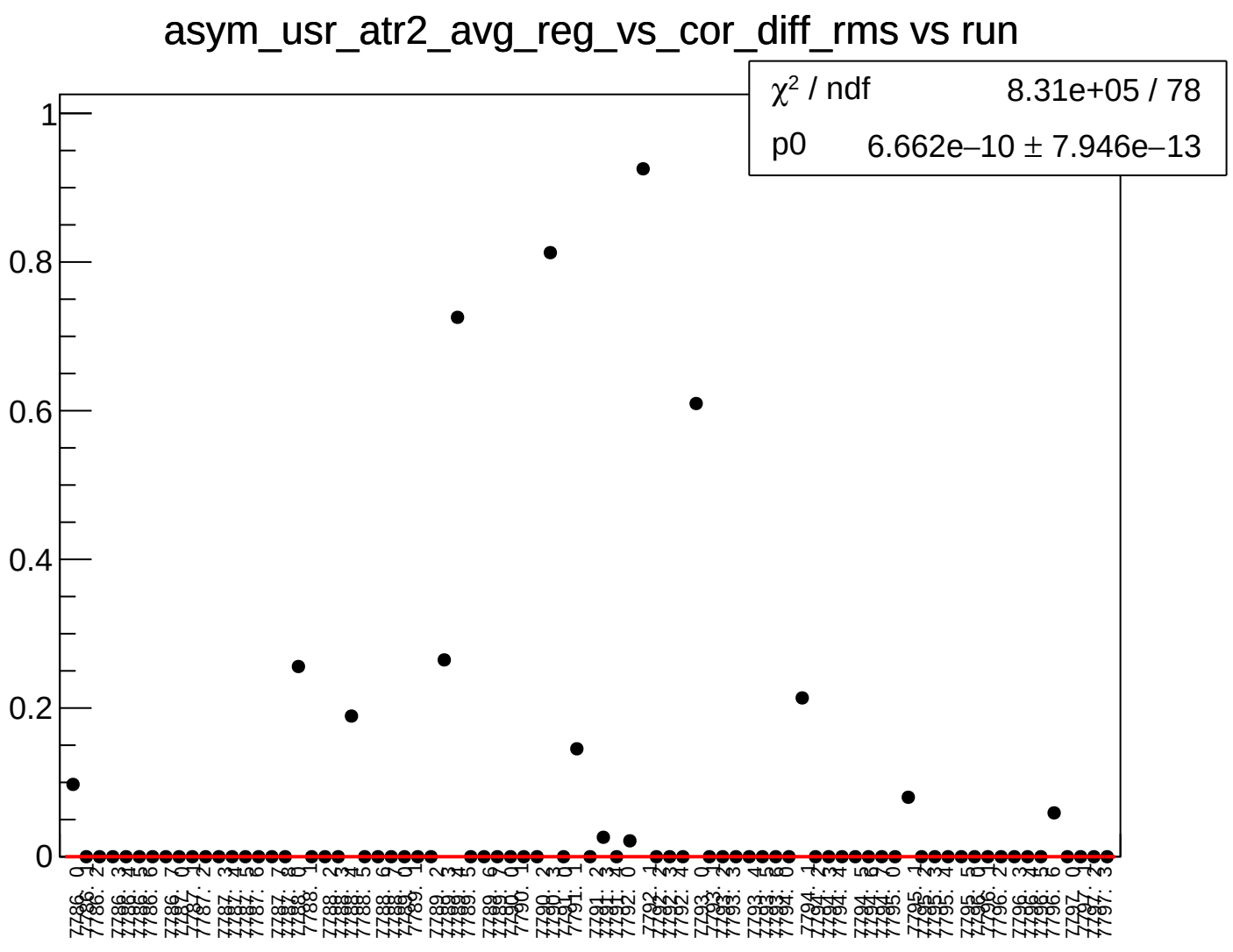

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3295 / 78
p0 7388 ± 5.972
8500
8000
7500
7000
6500

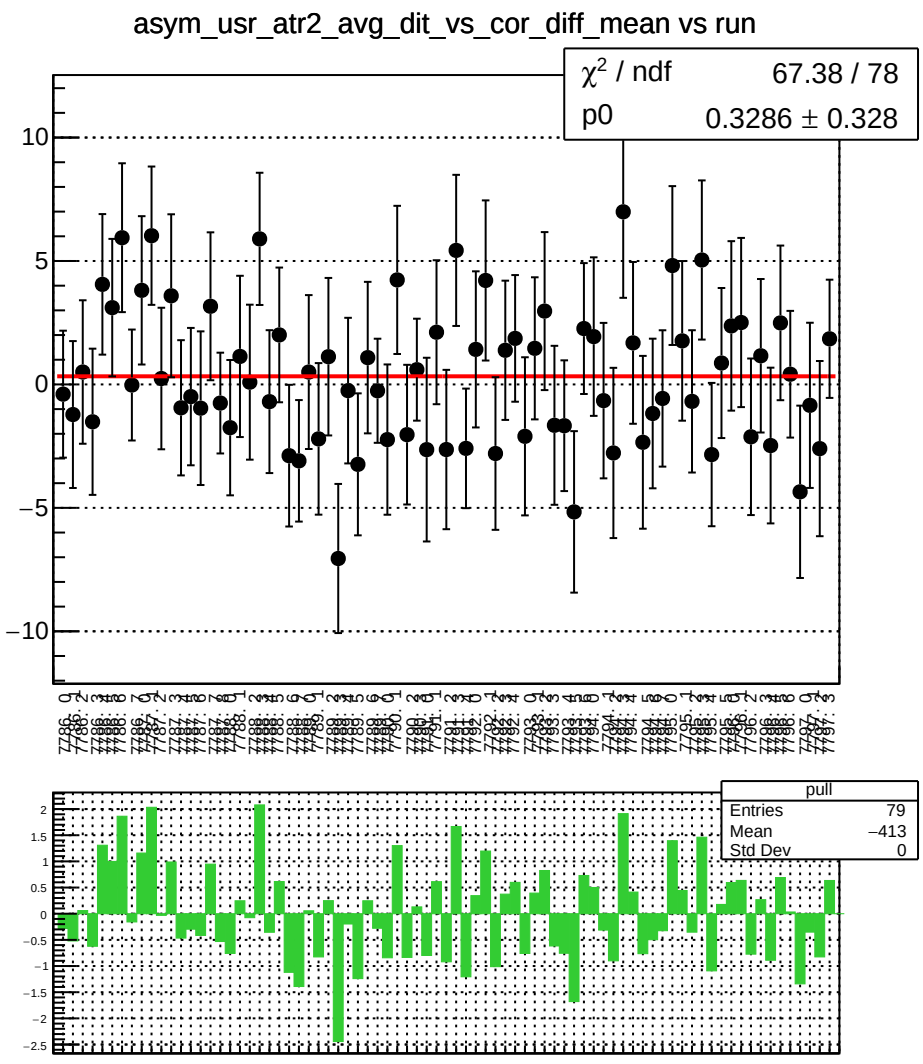

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 78.11 / 78
p0 −8631 ± 8581
200
100
0
−100
−200
pull
Entries 79
Mean −198.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

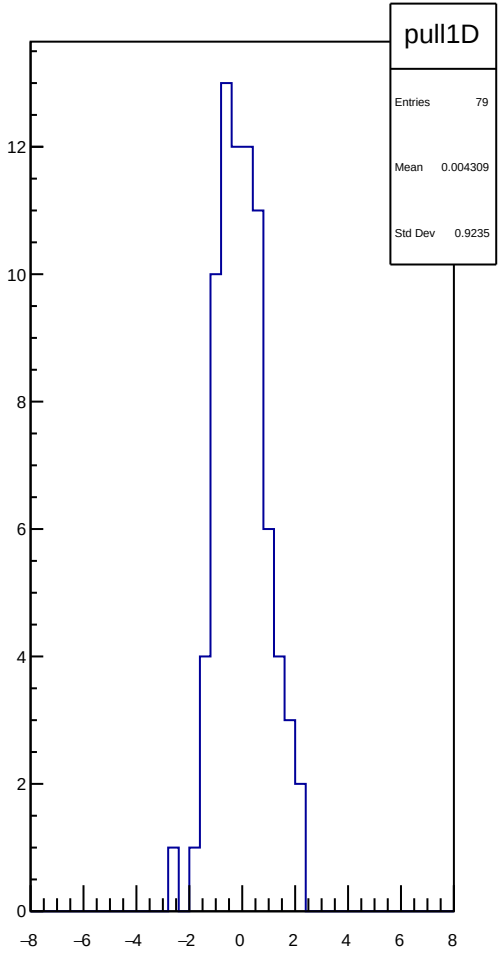

pull1D
Entries 79
Mean 0.02047
Std Dev 0.9942
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

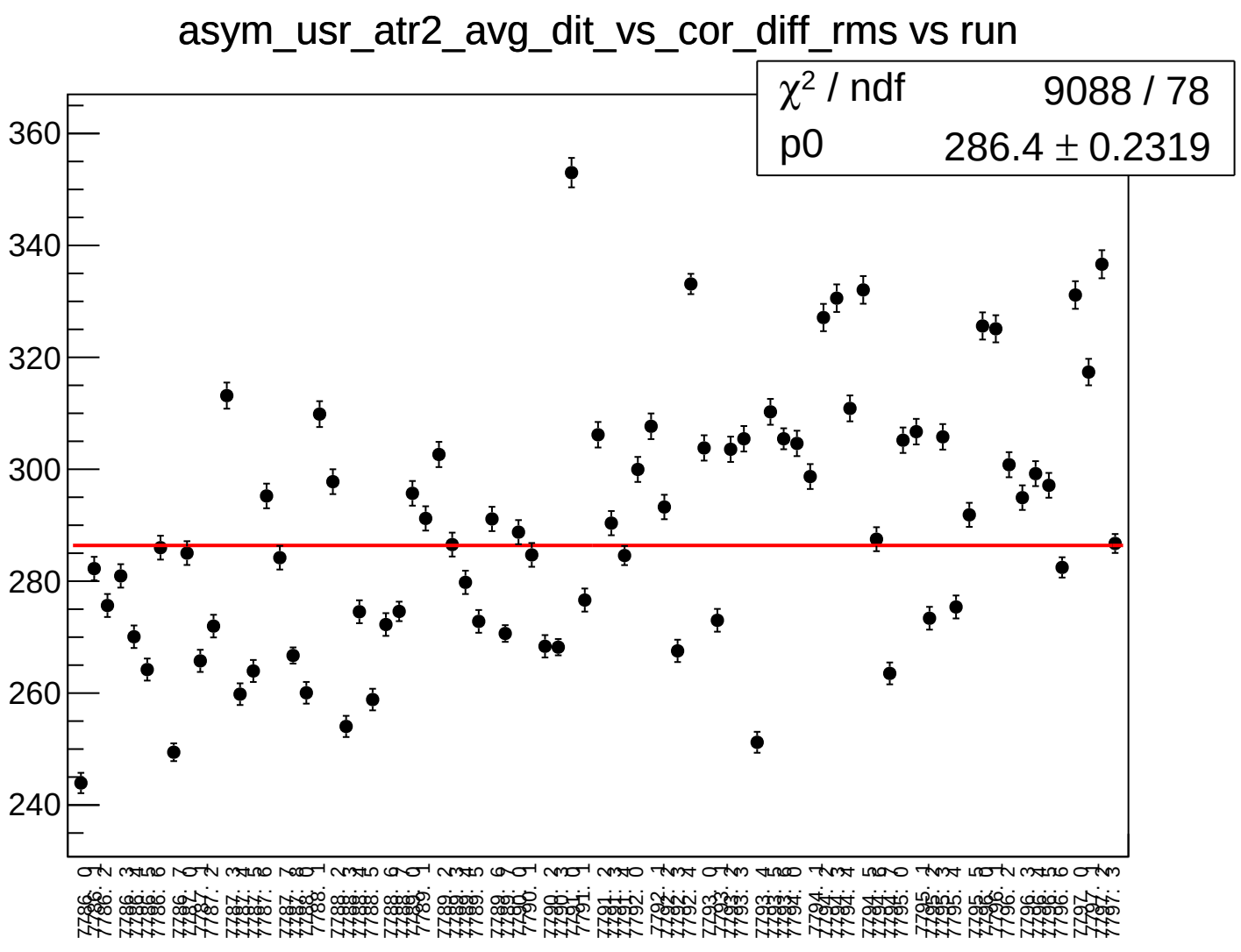

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 3432 / 78
p0 7507 ± 6.068
8500
8000
7500
7000
6500

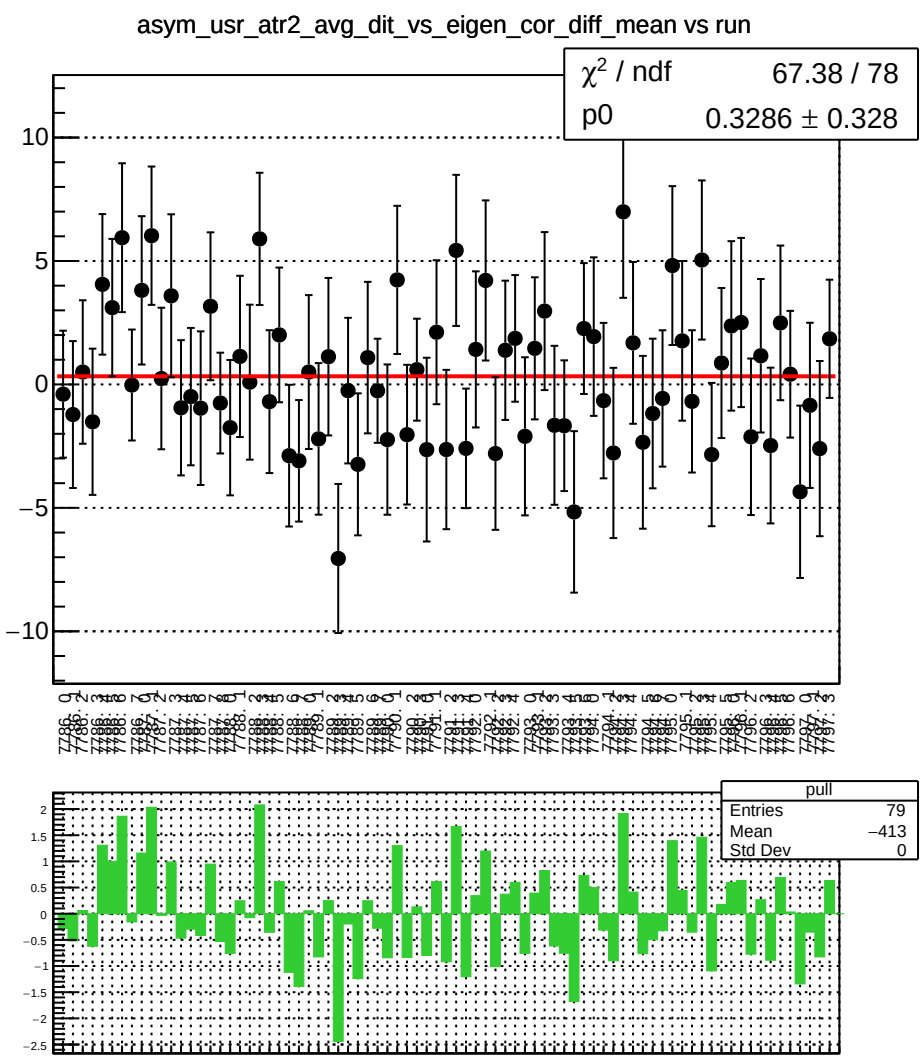

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.39 / 78
p0 4.892e−13 ± 1.124e−12
0.015
0.01
0.005
0
−0.005
pull
Entries 79
Mean 63.38
Std Dev 0
pull1D
Entries 79
Mean 0.0321
Std Dev 0.8881

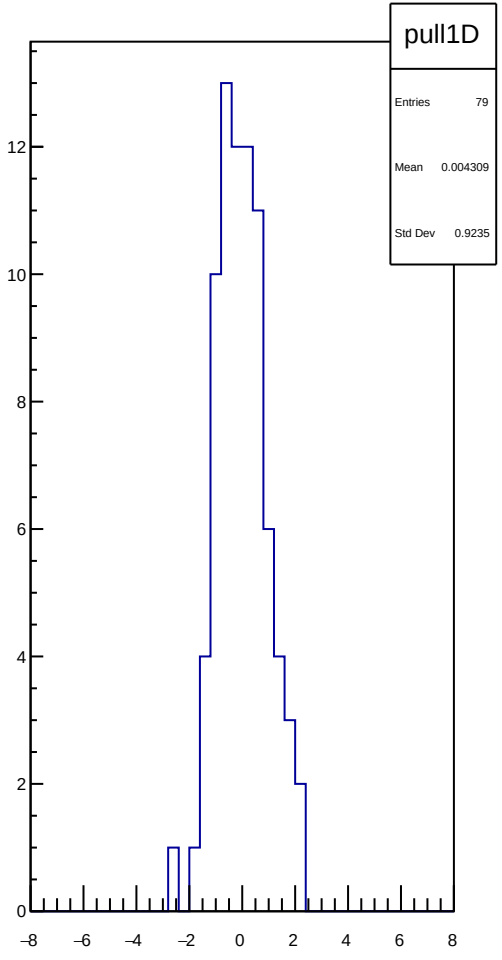

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.31e+05 / 78
p0 6.662e−10 ± 7.946e−13
1
0.8
0.6
0.4
0.2
0

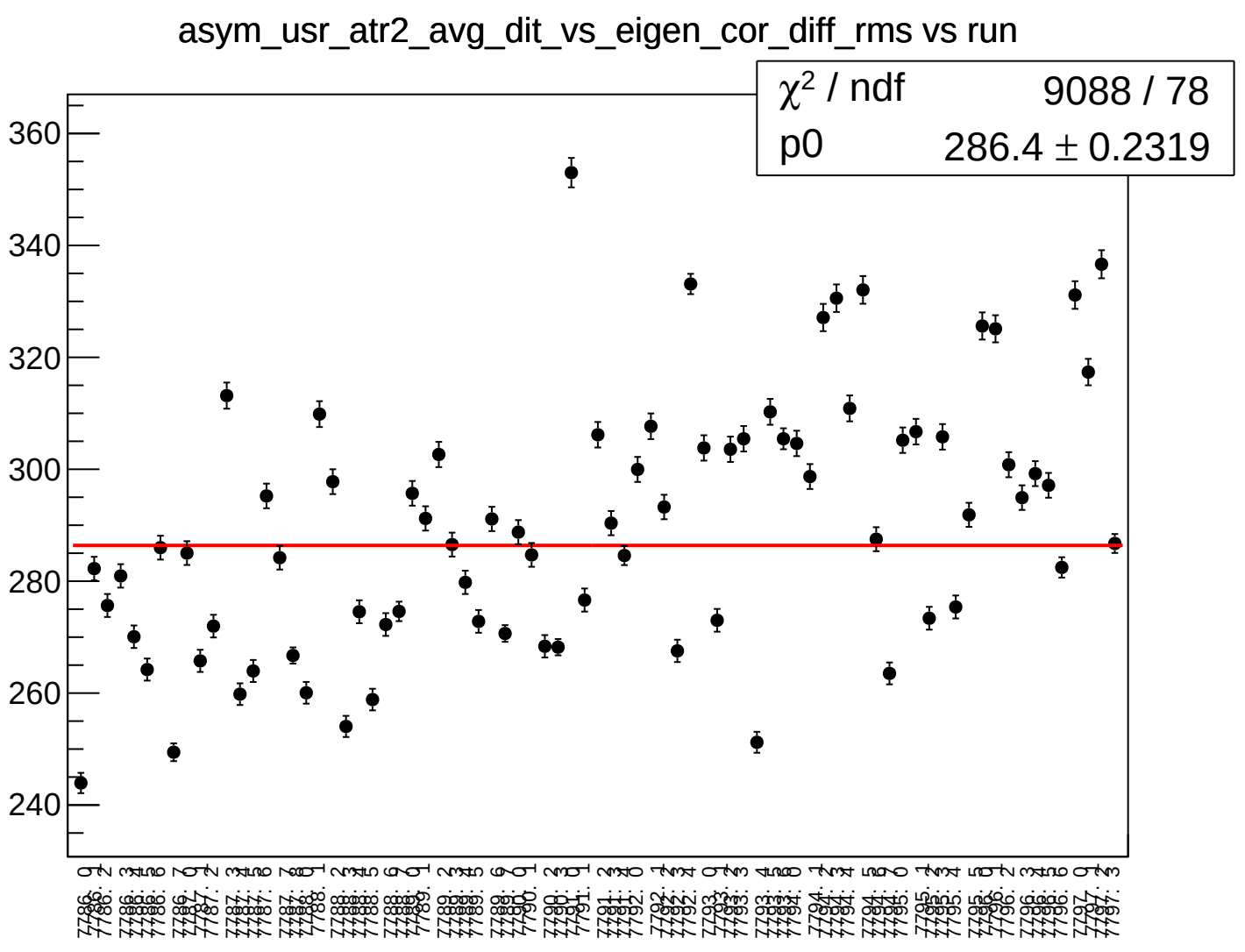

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.38 / 78
p0 0.3286 ± 0.328
pull
Entries 79
Mean −413
Std Dev 0

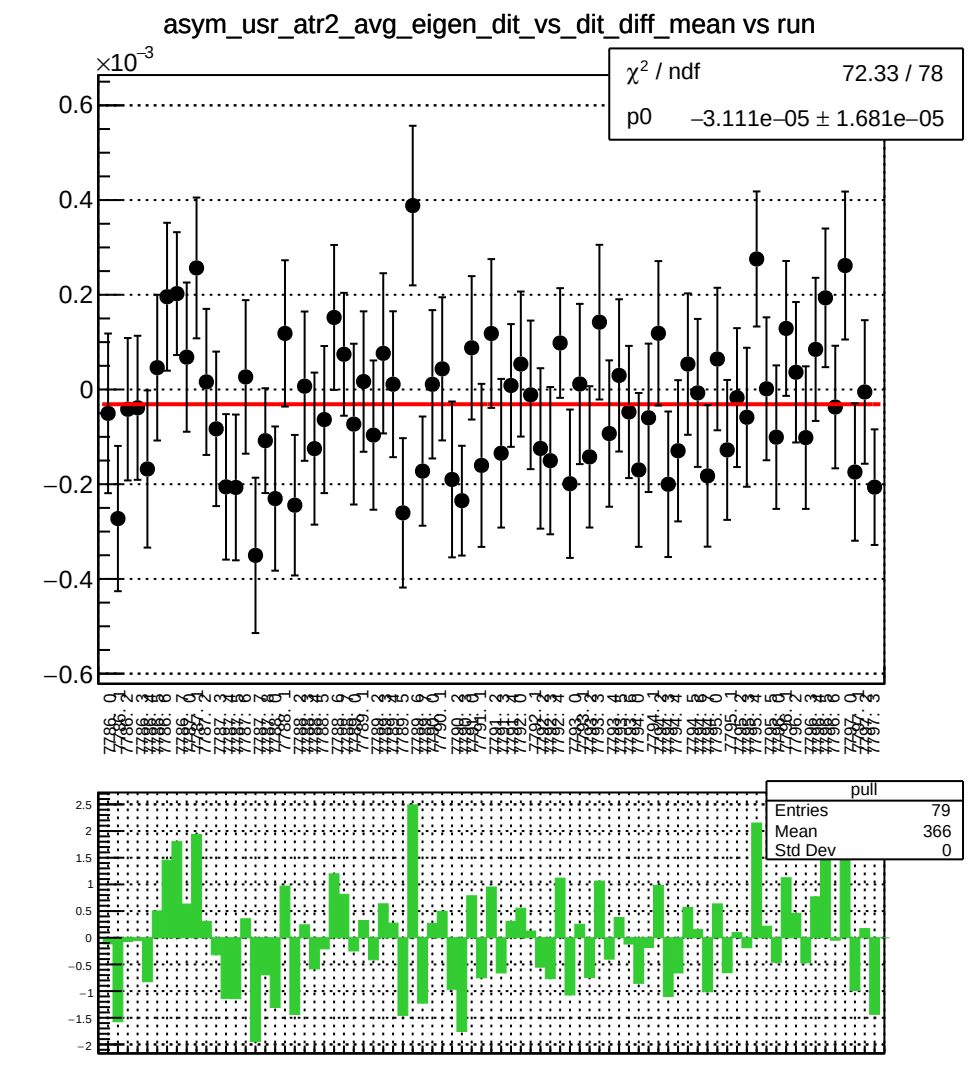

pull1D
Entries 79
Mean 0.004309
Std Dev 0.9235

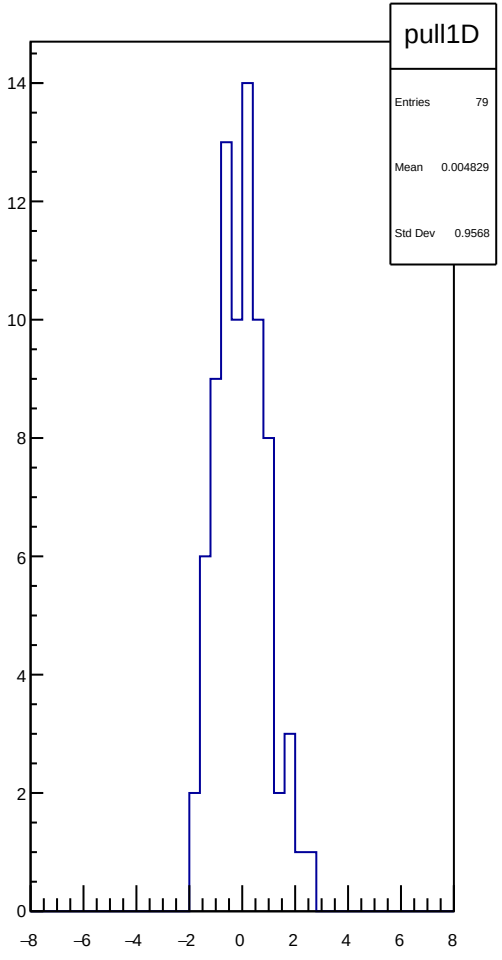

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9088 / 78
p0 286.4 ± 0.2319
360
340
320
300
280
260
240

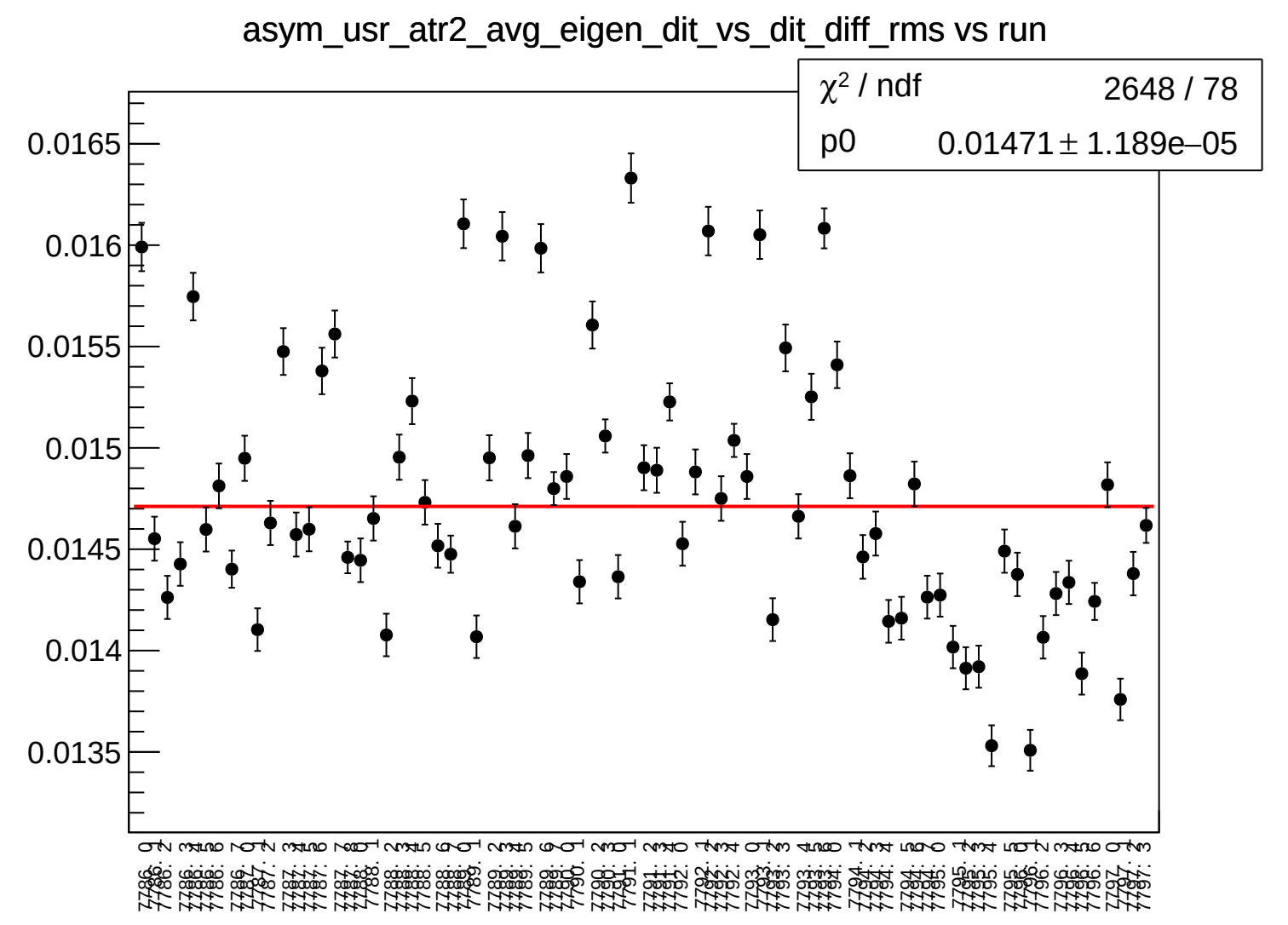

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.38 / 78
p0 0.3286 ± 0.328
pull
Entries 79
Mean −413
Std Dev 0

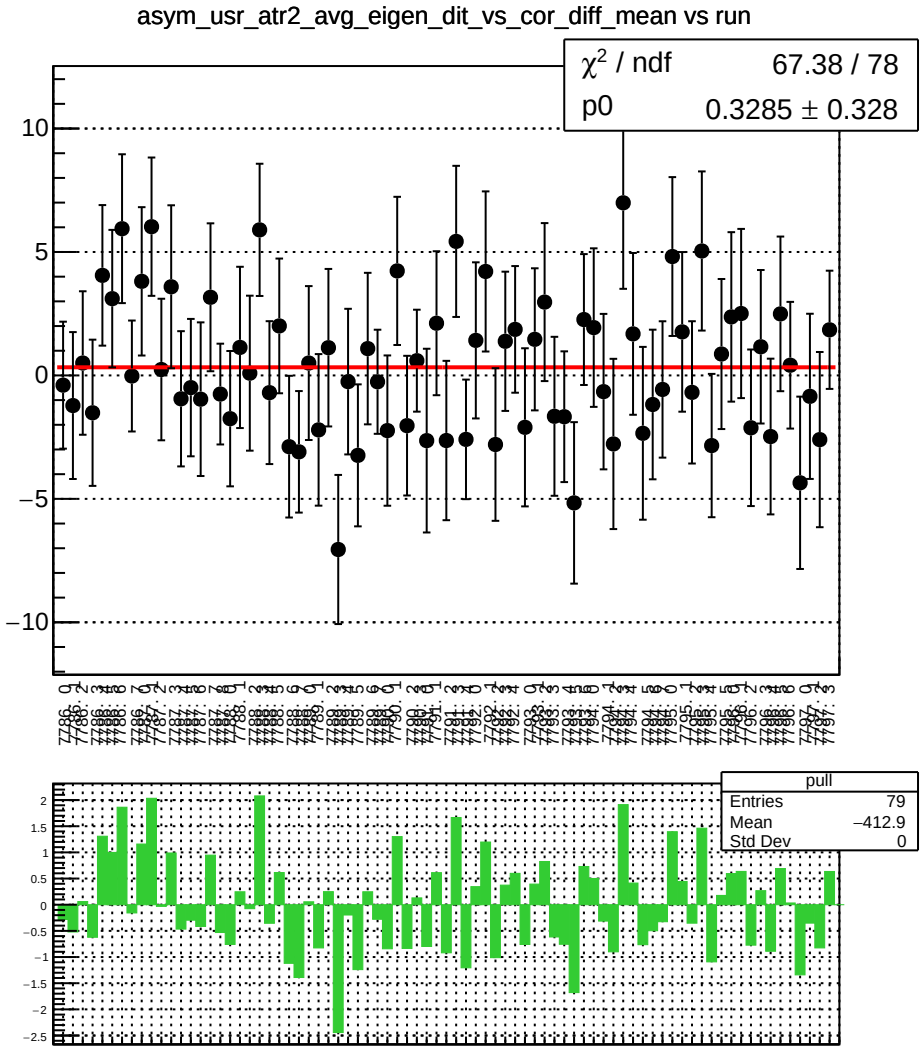

pull1D
Entries 79
Mean 0.004309
Std Dev 0.9235

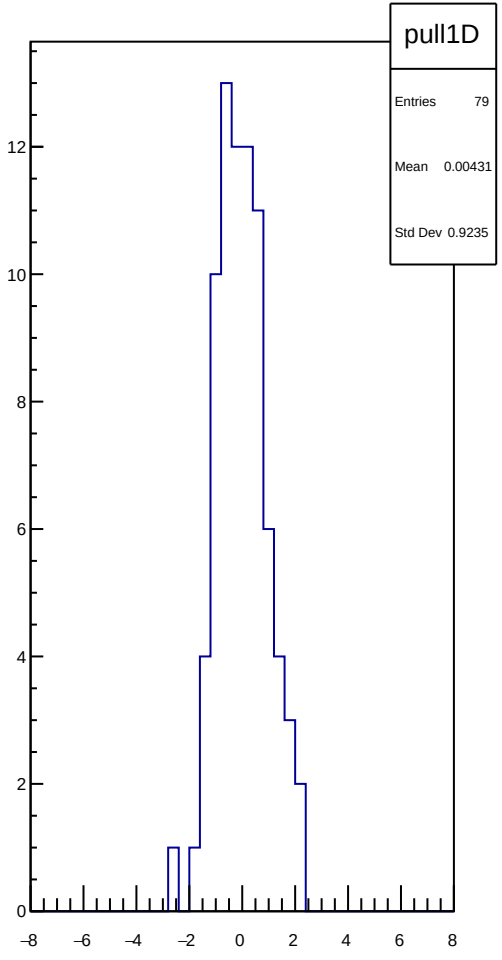

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9088 / 78
p0 286.4 ± 0.2319
360
340
320
300
280
260
240

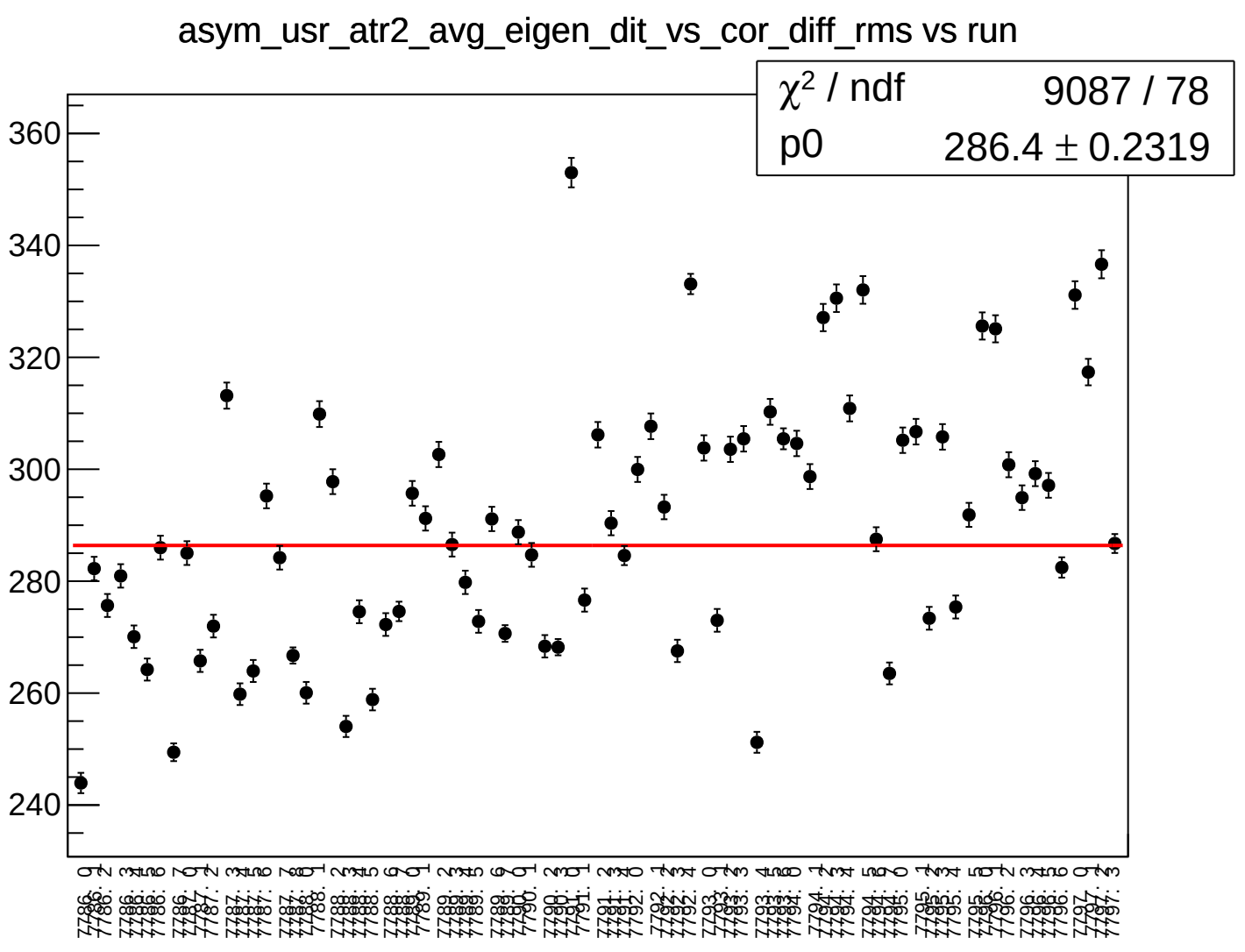

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.33 / 78
p0 −3.111e−05 ± 1.681e−05
pull
Entries 79
Mean 366
Std Dev 0

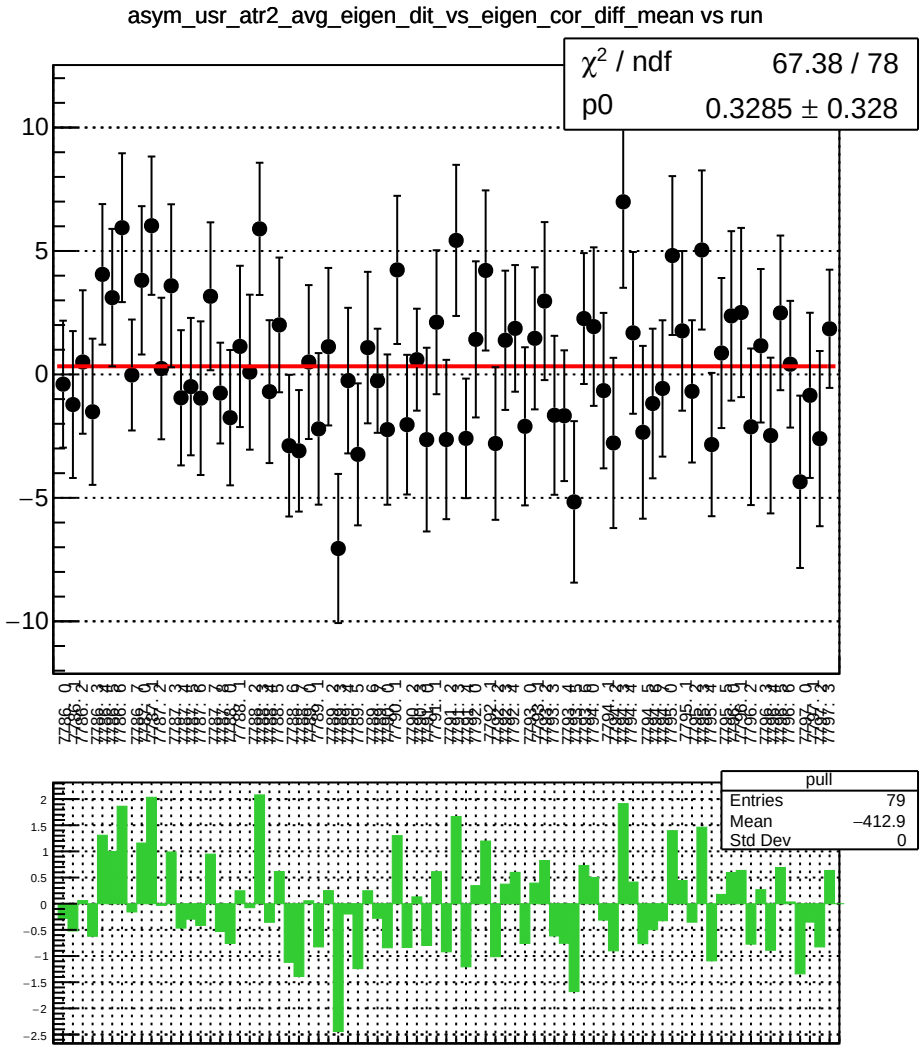

pull1D
Entries 79
Mean 0.004829
Std Dev 0.9568

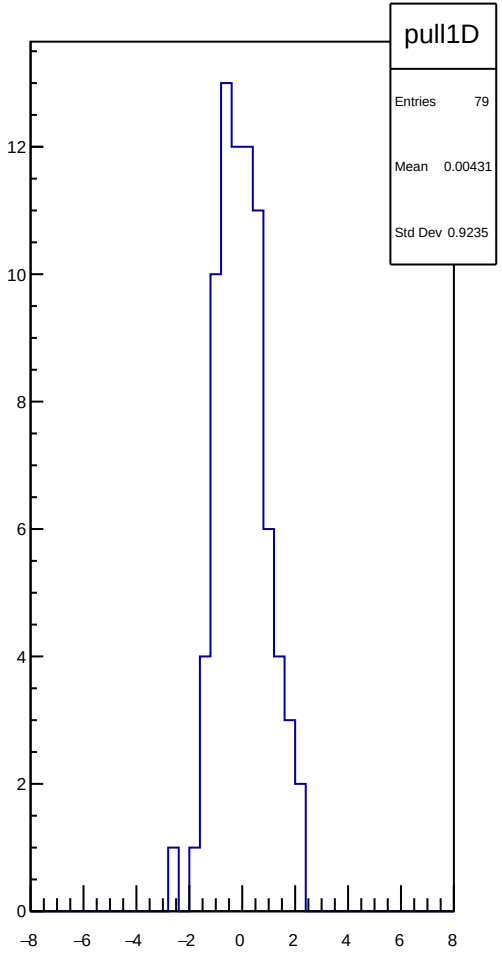

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2648 / 78
p0 0.01471 ± 1.189e–05
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135

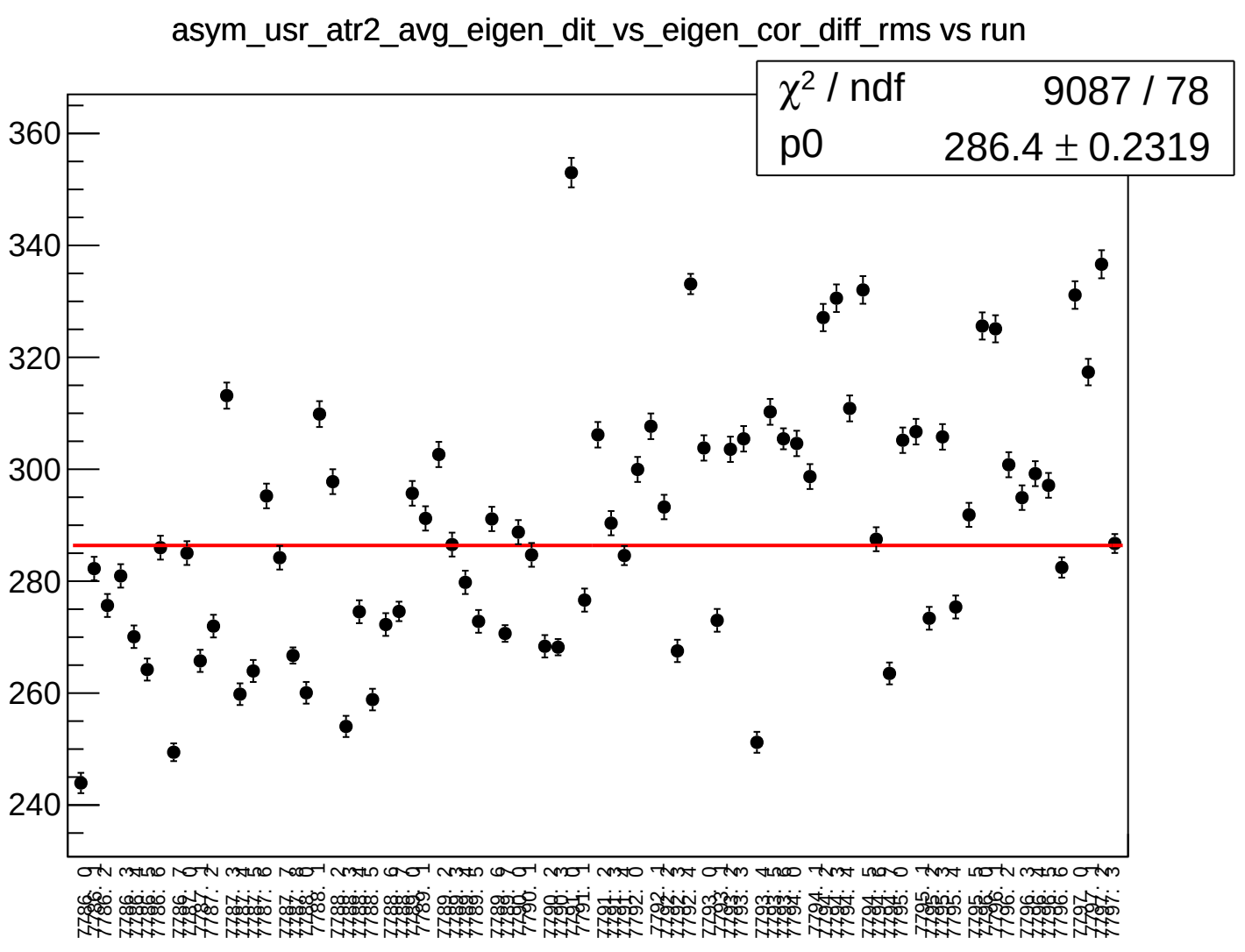

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.38 / 78
p0 0.3285 ± 0.328
pull
Entries 79
Mean −412.9
Std Dev 0

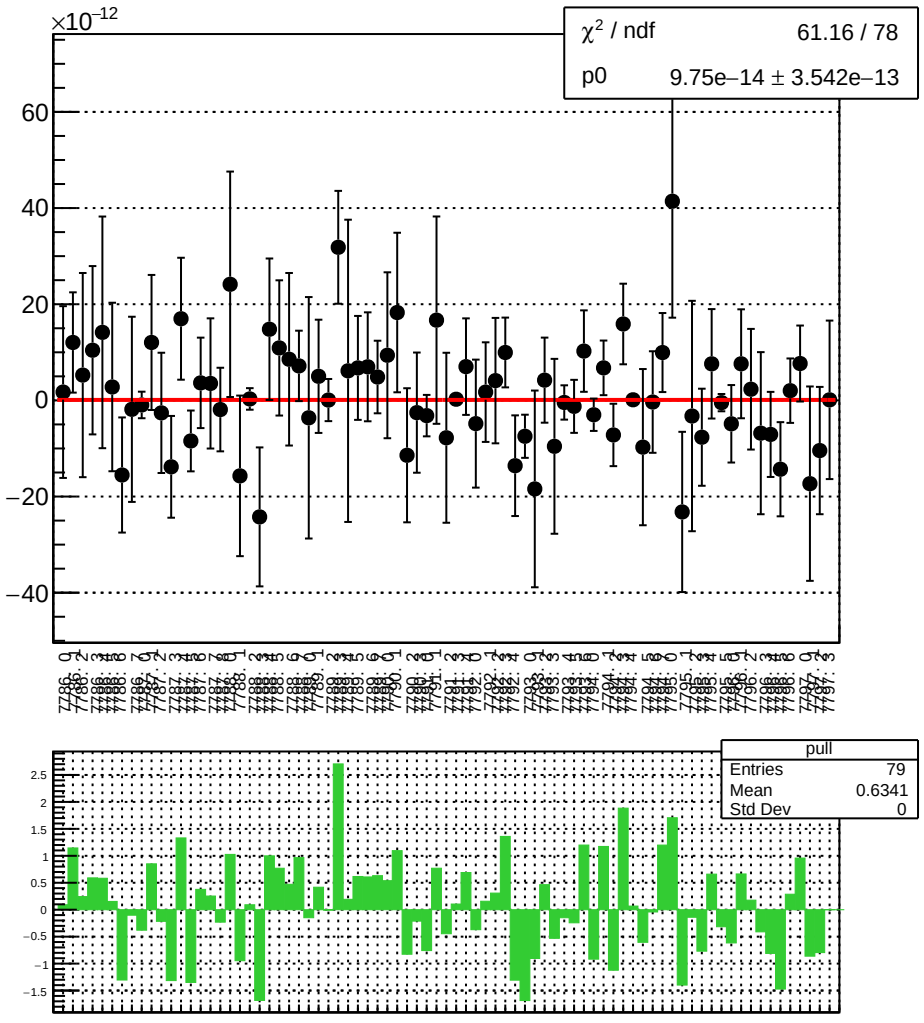

pull1D
Entries 79
Mean 0.00431
Std Dev 0.9235

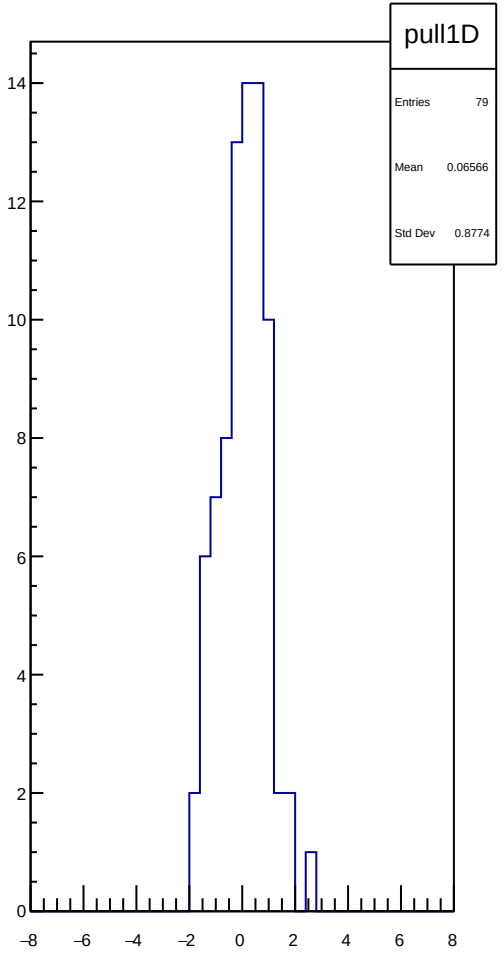

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9087 / 78
p0 286.4 ± 0.2319
360
340
320
300
280
260
240

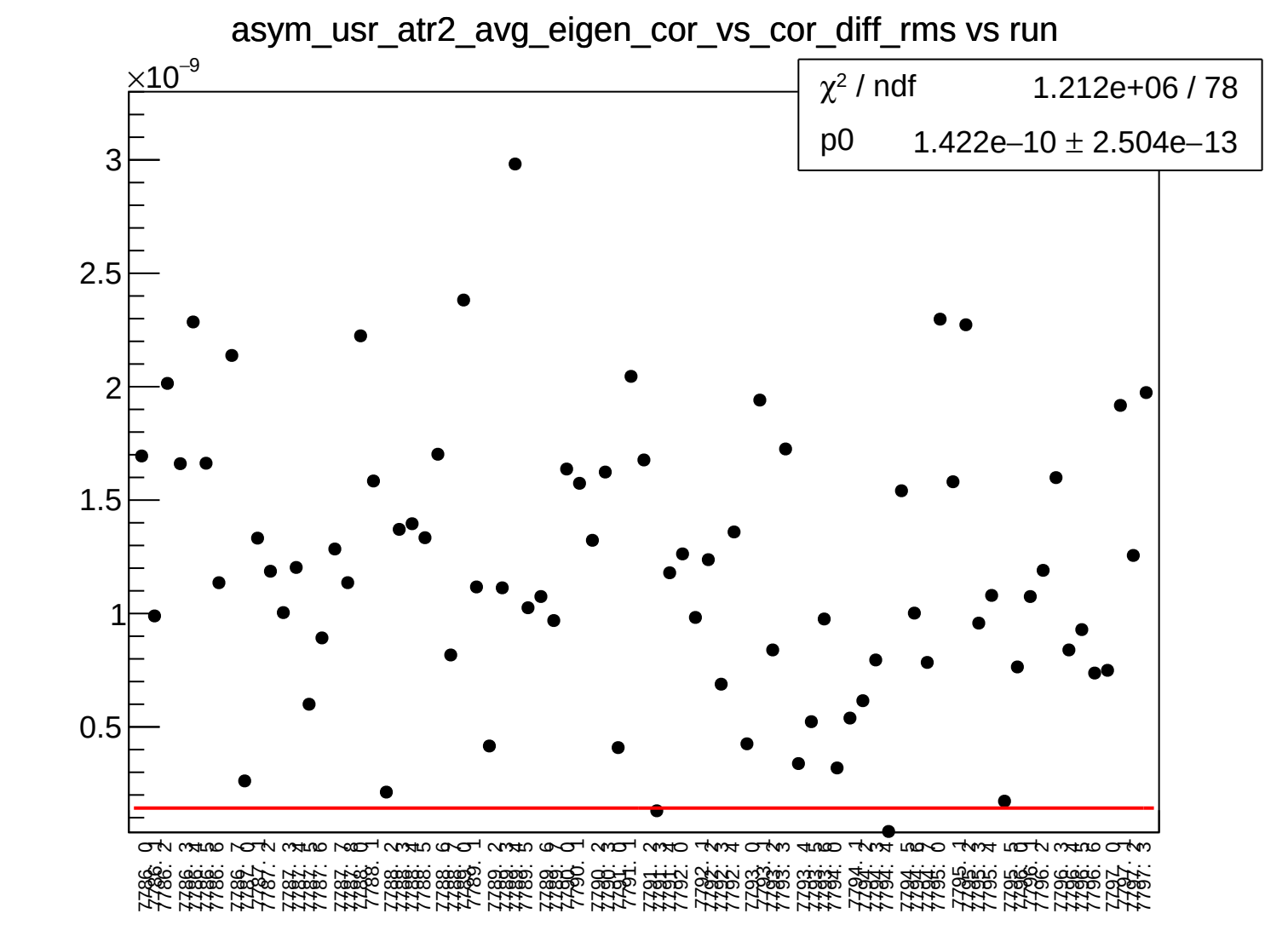

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.38 / 78
p0 0.3285 ± 0.328
pull
Entries 79
Mean −412.9
Std Dev 0

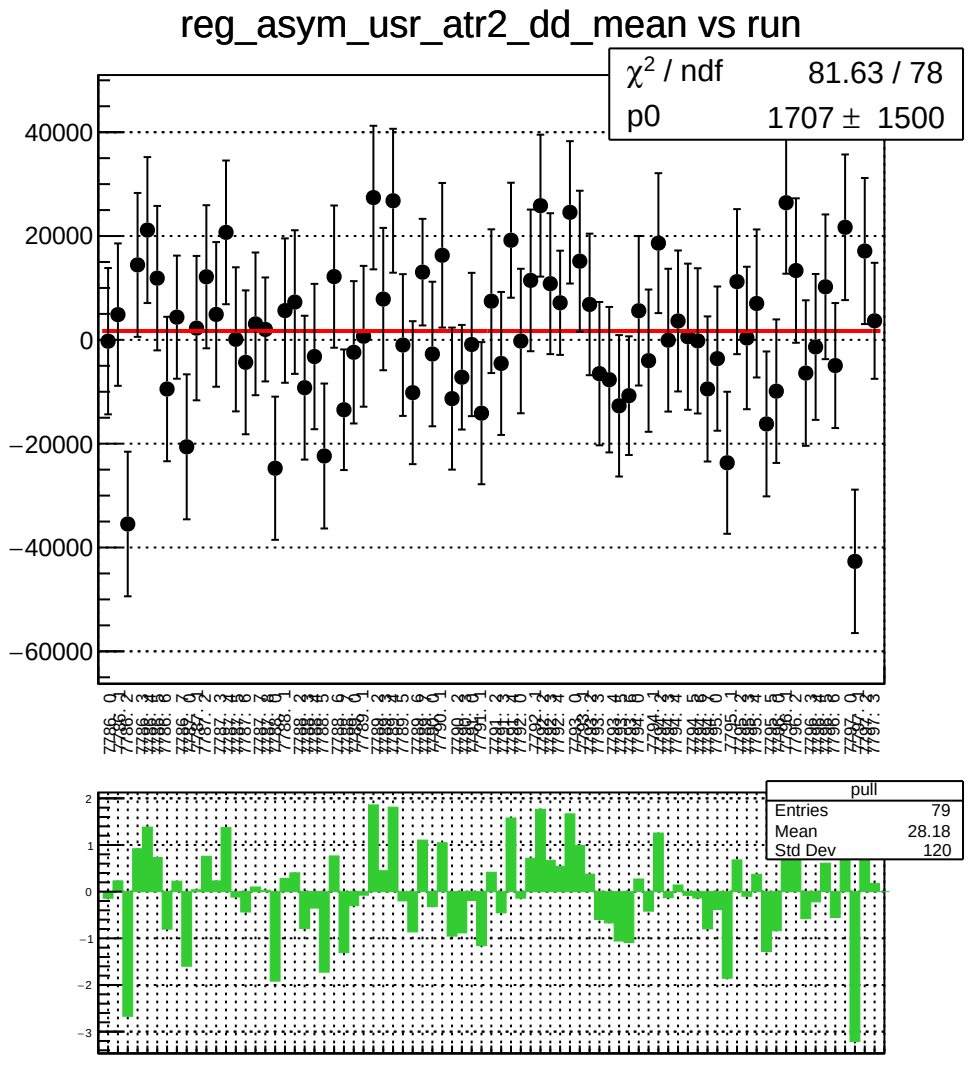

pull1D
Entries 79
Mean 0.00431
Std Dev 0.9235

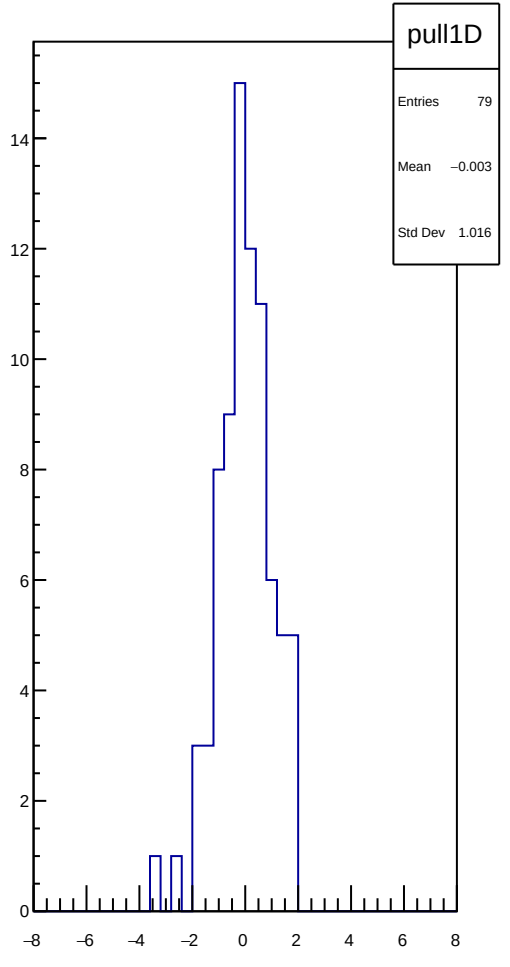

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9087 / 78
p0 286.4 ± 0.2319
360
340
320
300
280
260
240

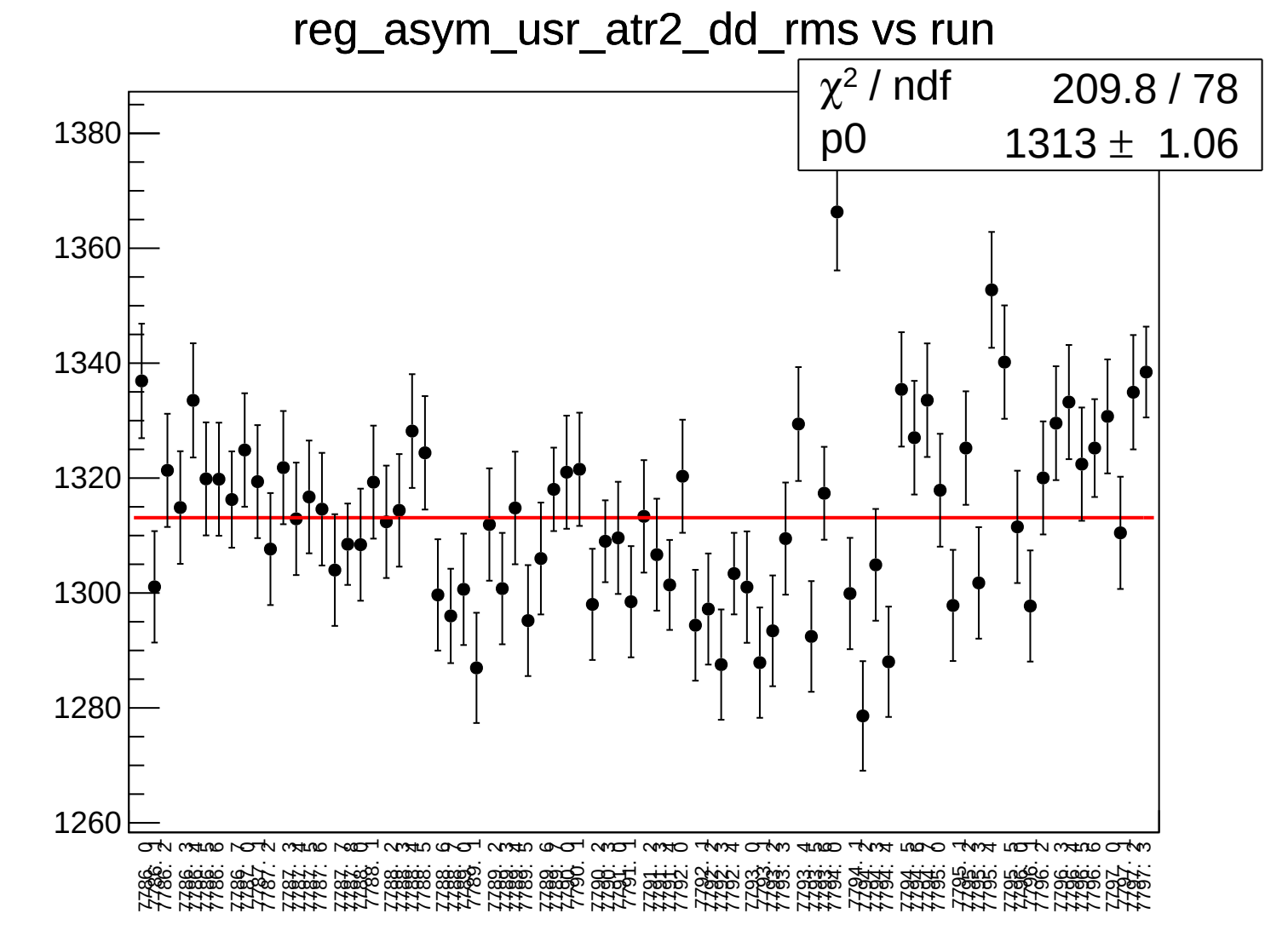

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.16 / 78
p0 9.75e−14 ± 3.542e−13
pull
Entries 79
Mean 0.6341
Std Dev 0

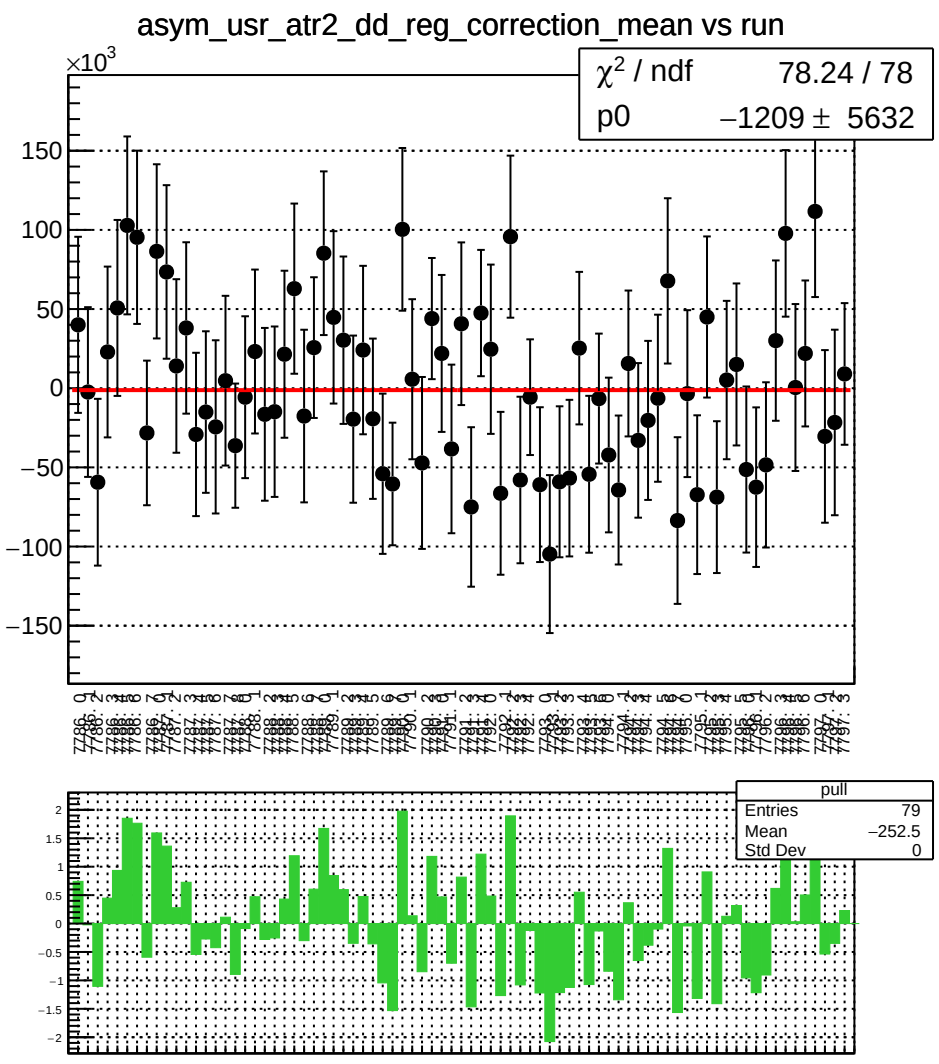

pull1D
Entries 79
Mean 0.06566
Std Dev 0.8774

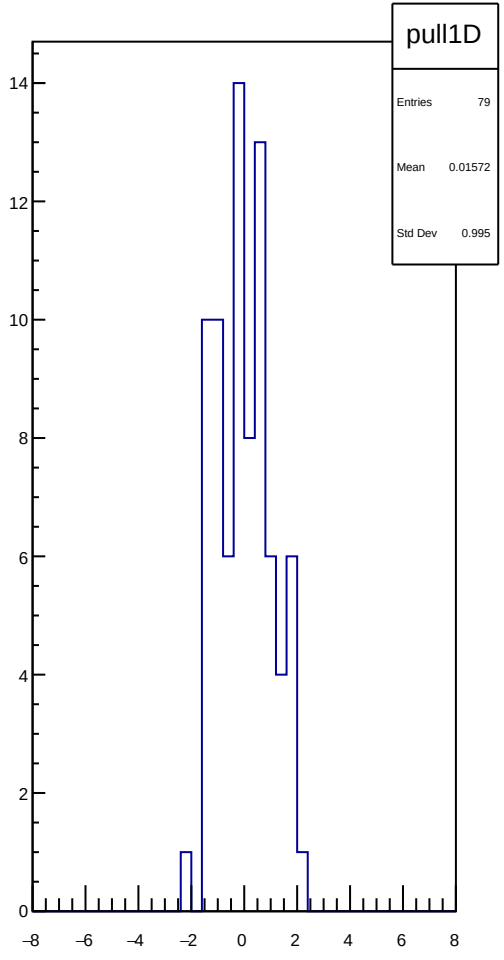

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.212e+06 / 78
p0 1.422e−10 ± 2.504e−13
3
2.5
2
1.5
1
0.5

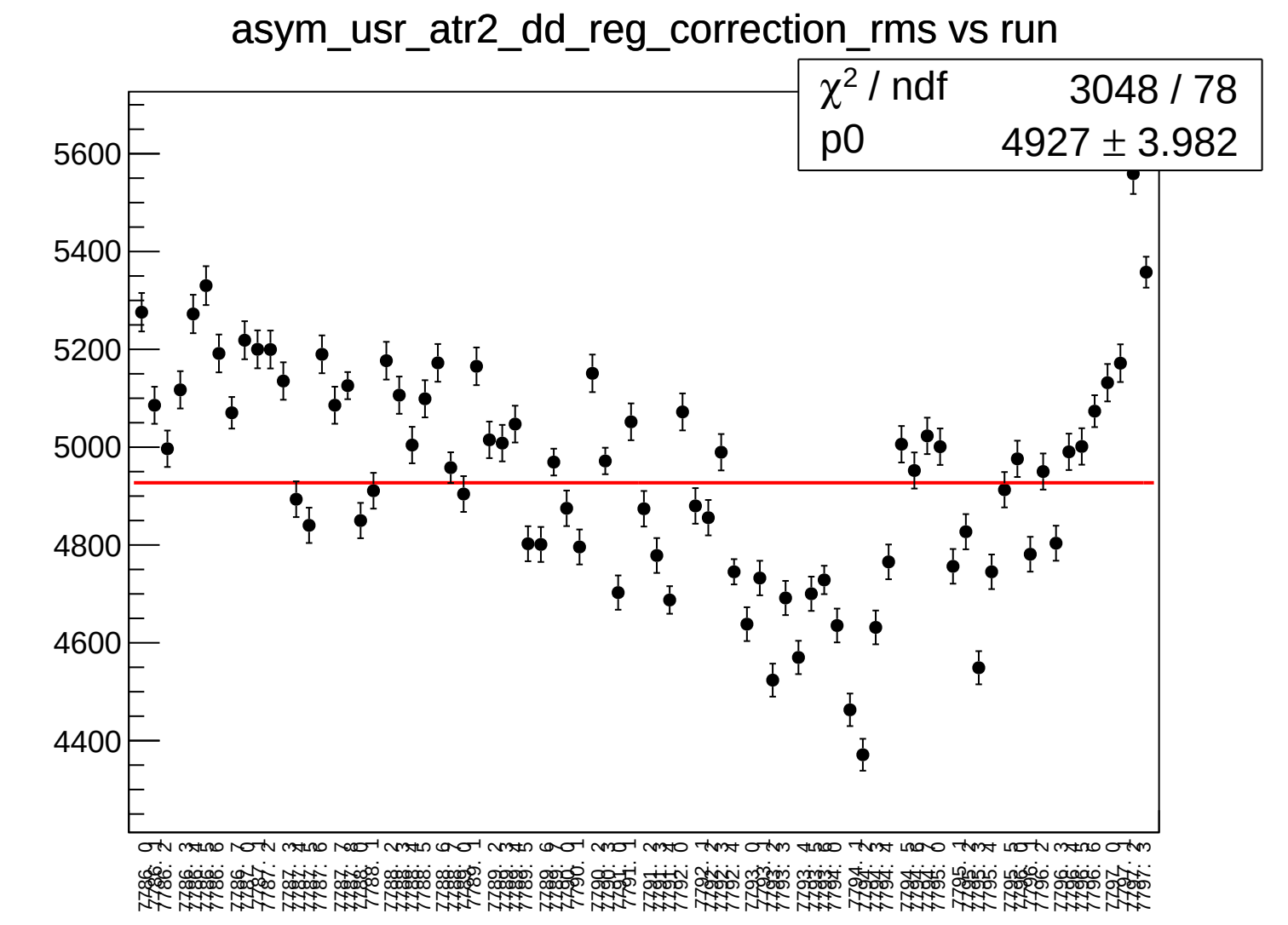

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 81.63 / 78
p0 1707 ± 1500
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 28.18
Std Dev 120
2
1
0
−1
−2
−3

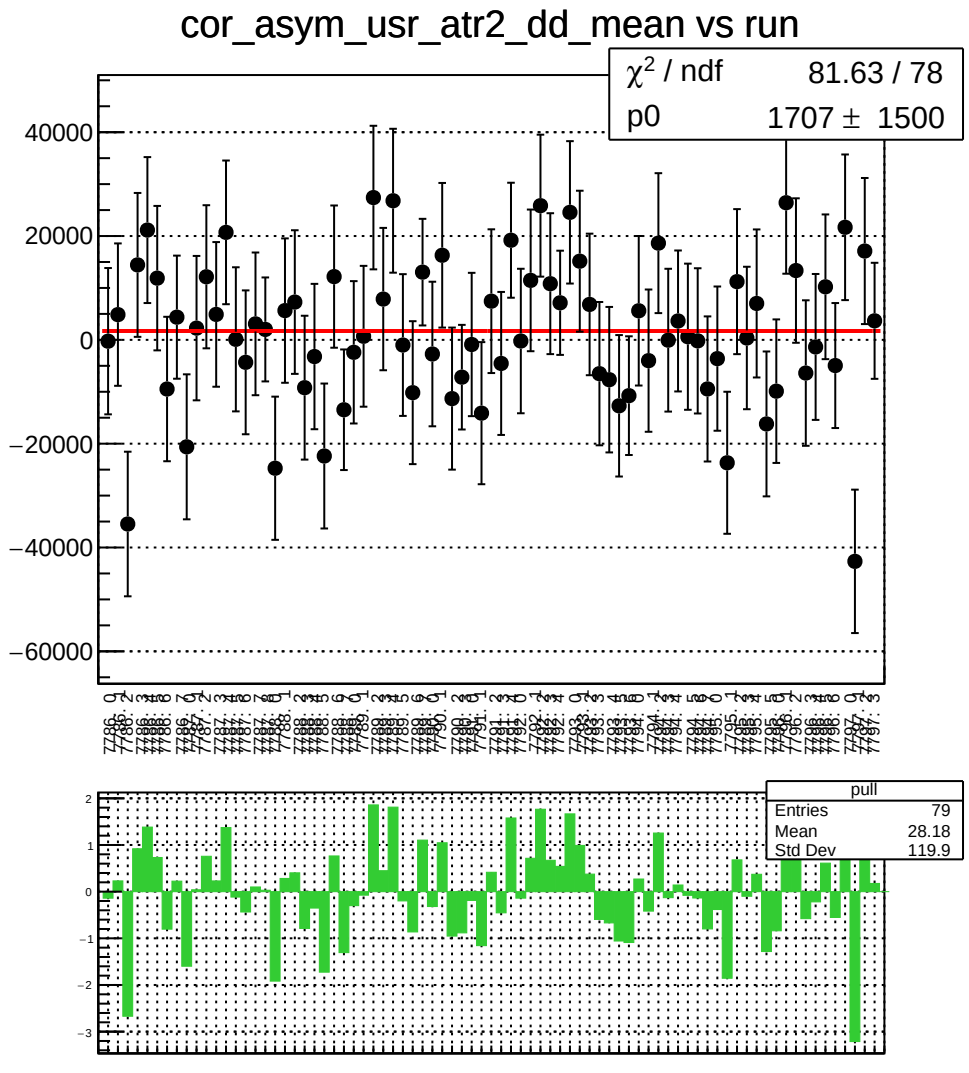

pull1D
Entries 79
Mean −0.003
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

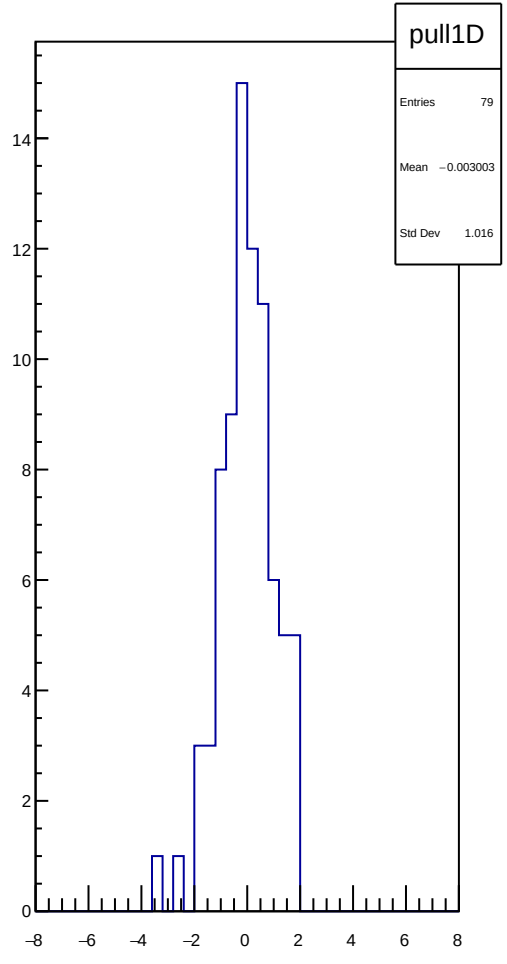

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 209.8 / 78
p0 1313 ± 1.06
1380
1360
1340
1320
1300
1280
1260

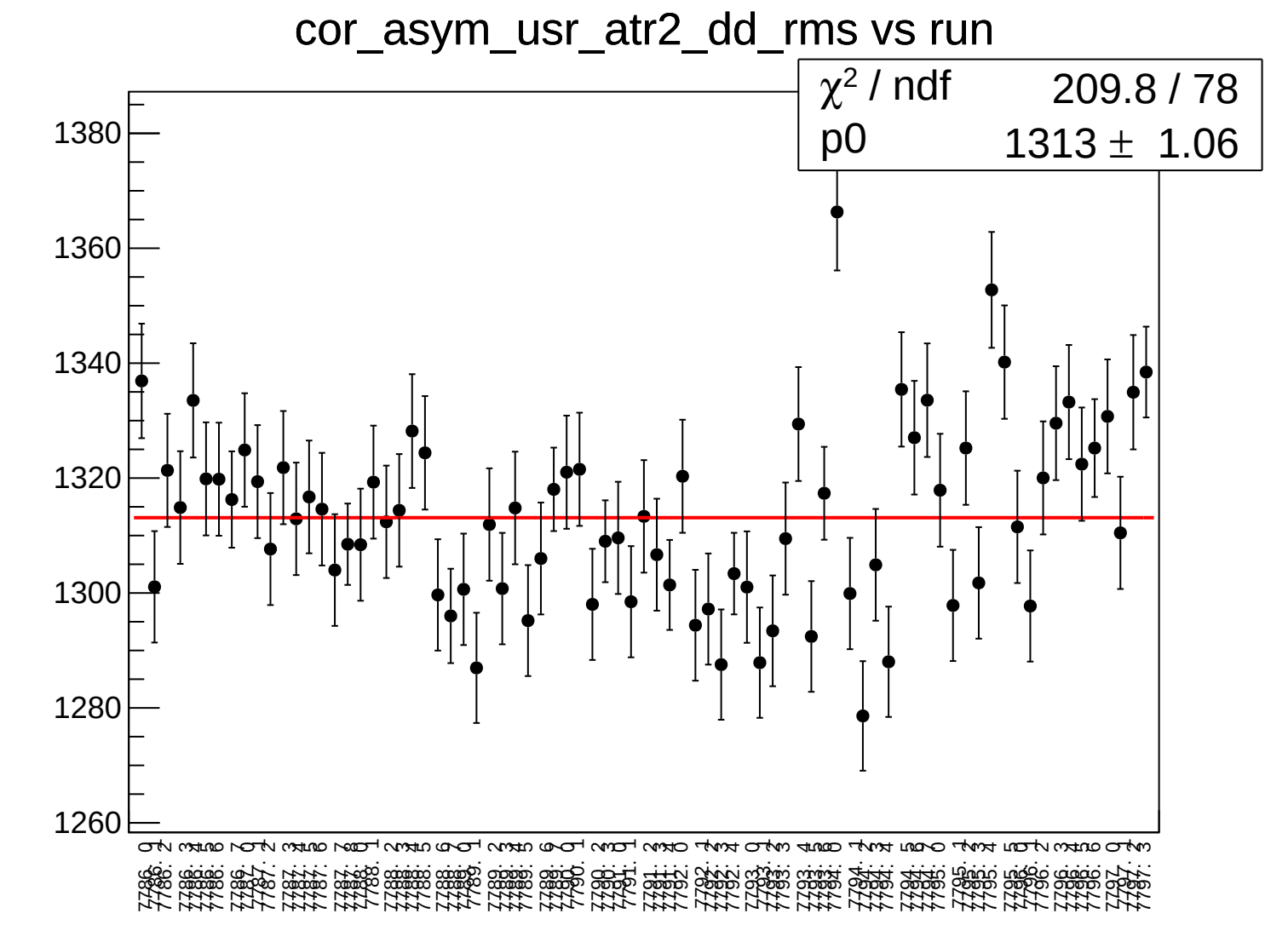

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.24 / 78
p0 −1209 ± 5632
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −252.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

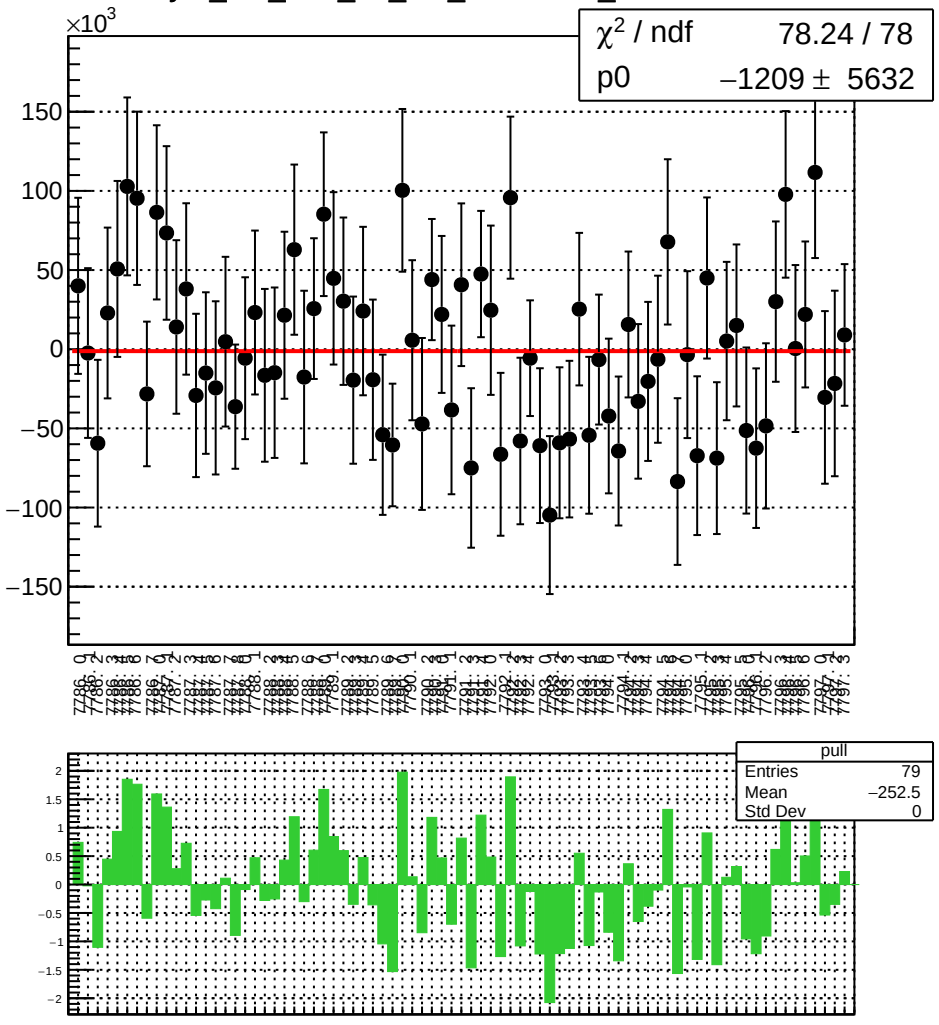

pull1D
Entries 79
Mean 0.01572
Std Dev 0.995
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

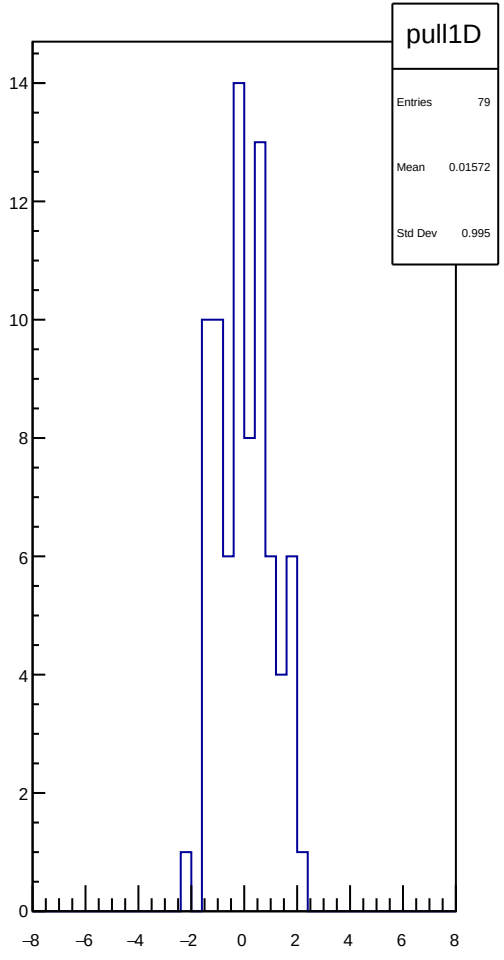

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 3048 / 78
p0 4927 ± 3.982
5600
5400
5200
5000
4800
4600
4400

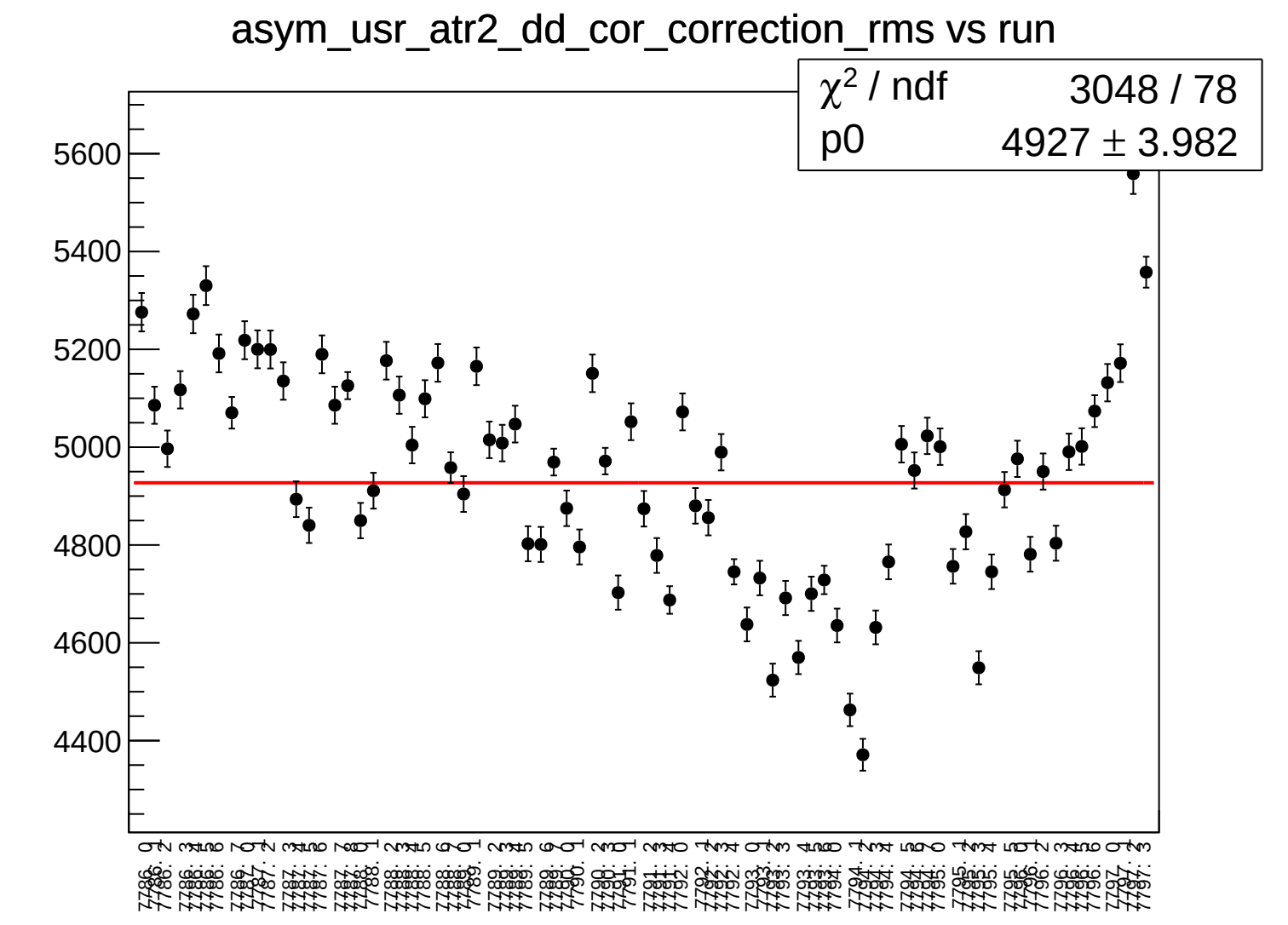

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 81.63 / 78
p0 1707 ± 1500
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 28.18
Std Dev 119.9
2
1
0
−1
−2
−3

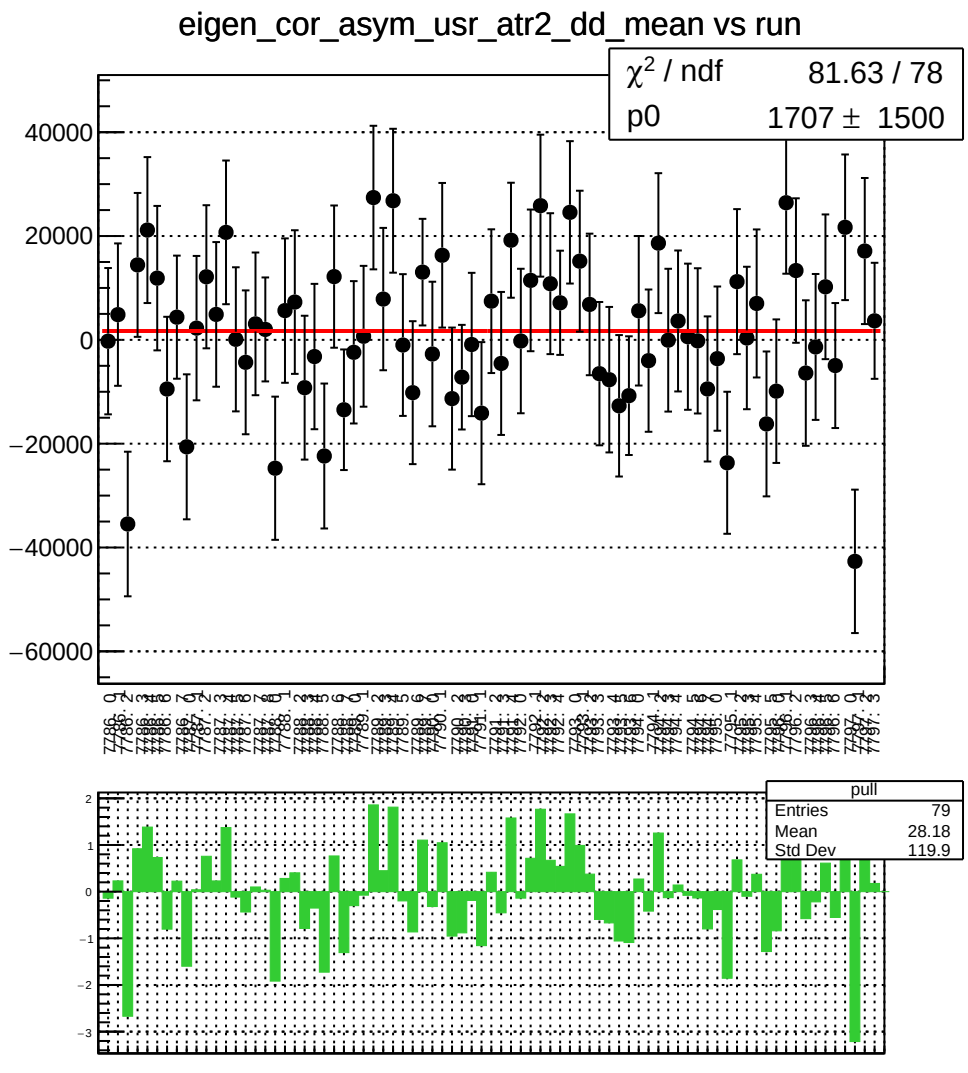

pull1D
Entries 79
Mean −0.003003
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

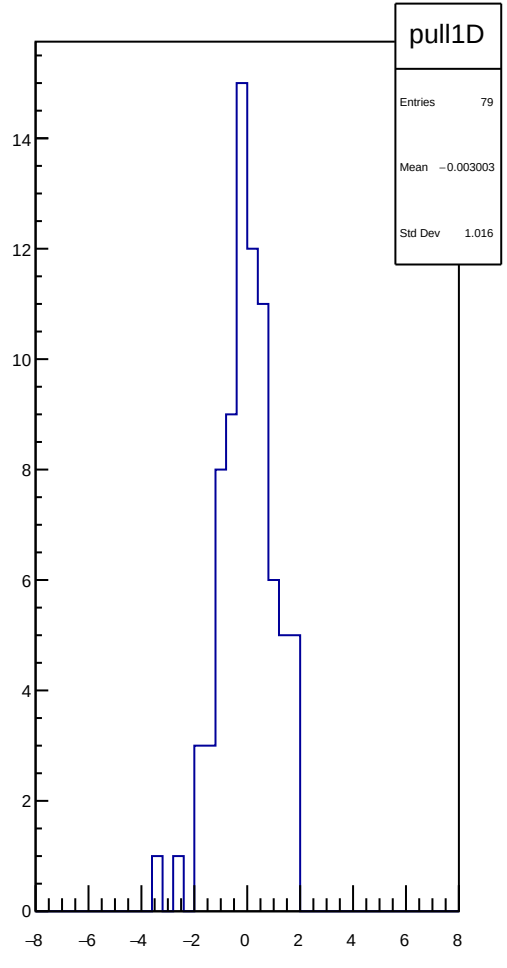

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 209.8 / 78
p0 1313 ± 1.06
1380
1360
1340
1320
1300
1280
1260

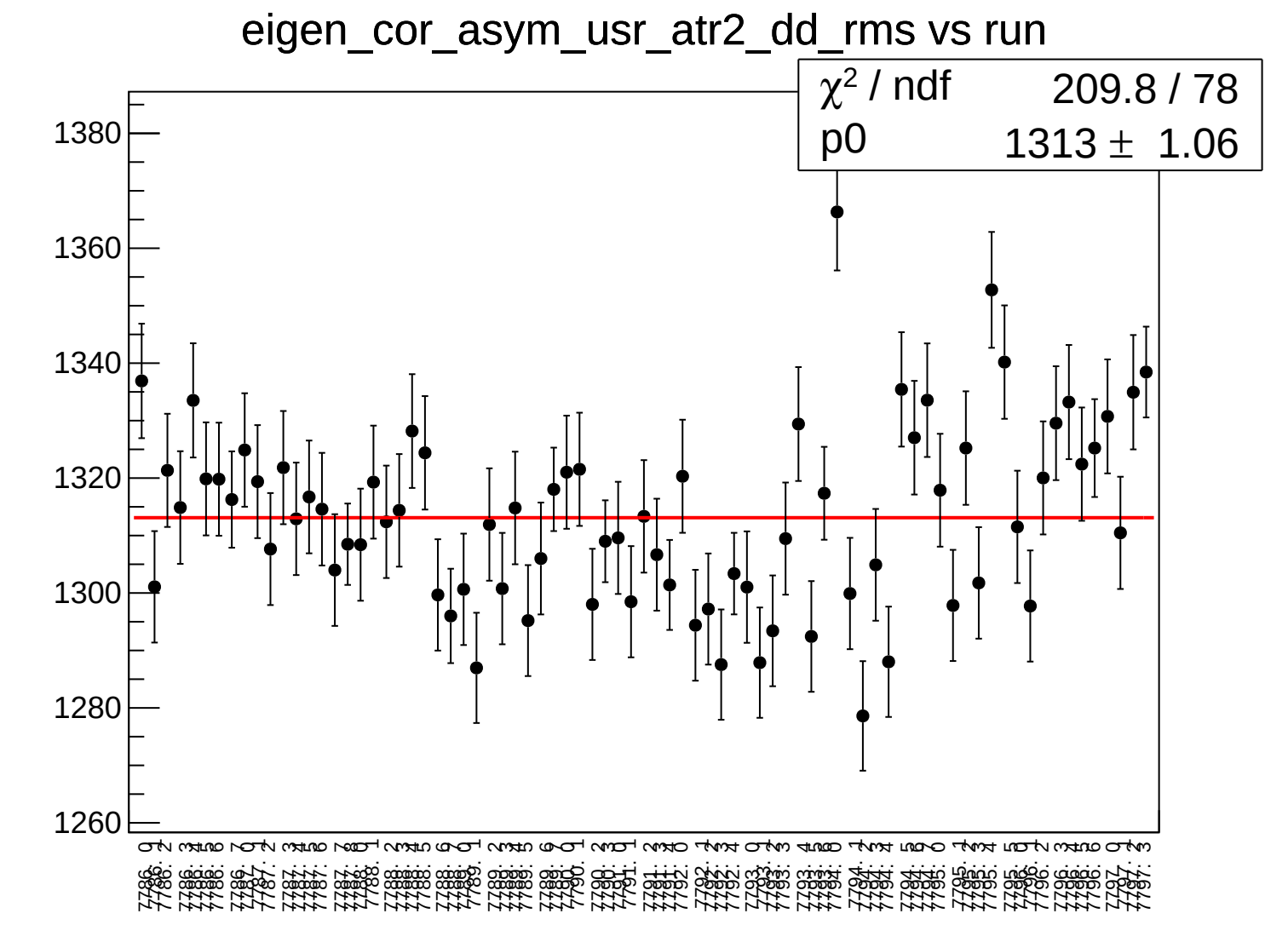

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.24 / 78
p0 −1209 ± 5632
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −252.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

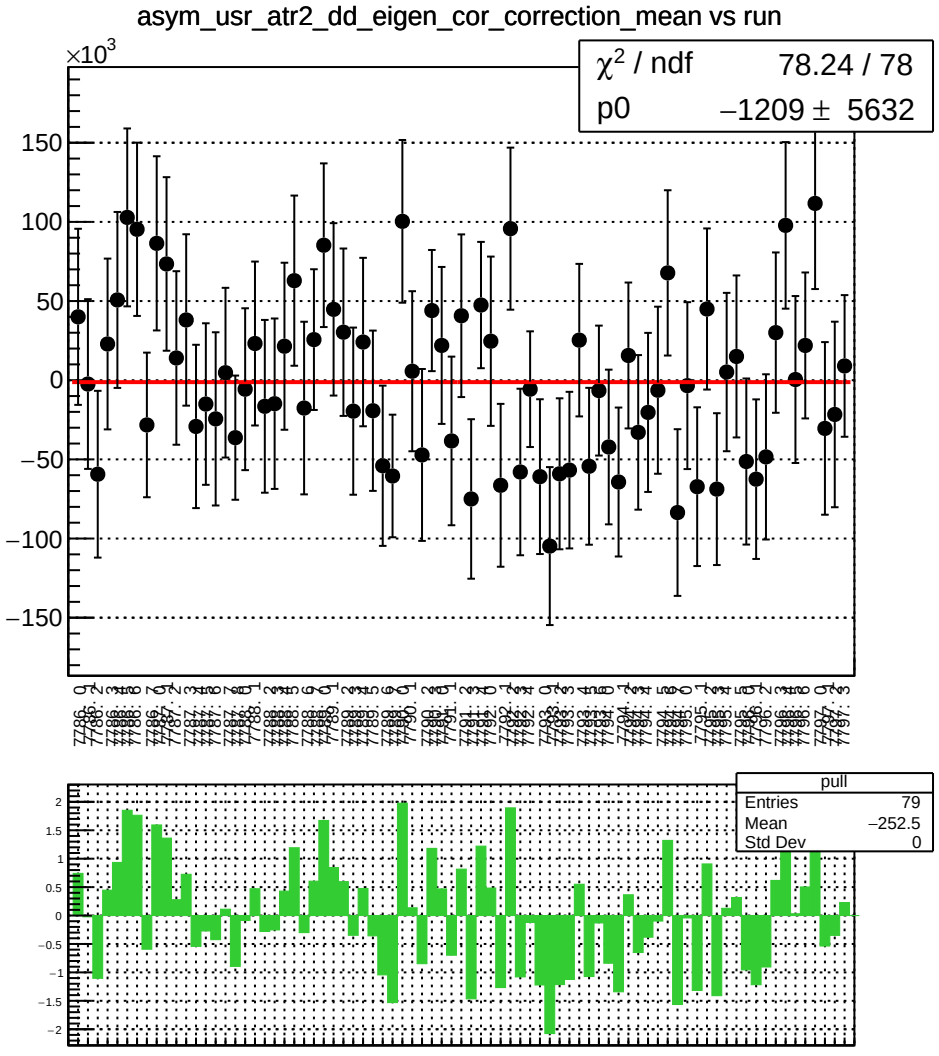

pull1D
Entries 79
Mean 0.01572
Std Dev 0.995
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

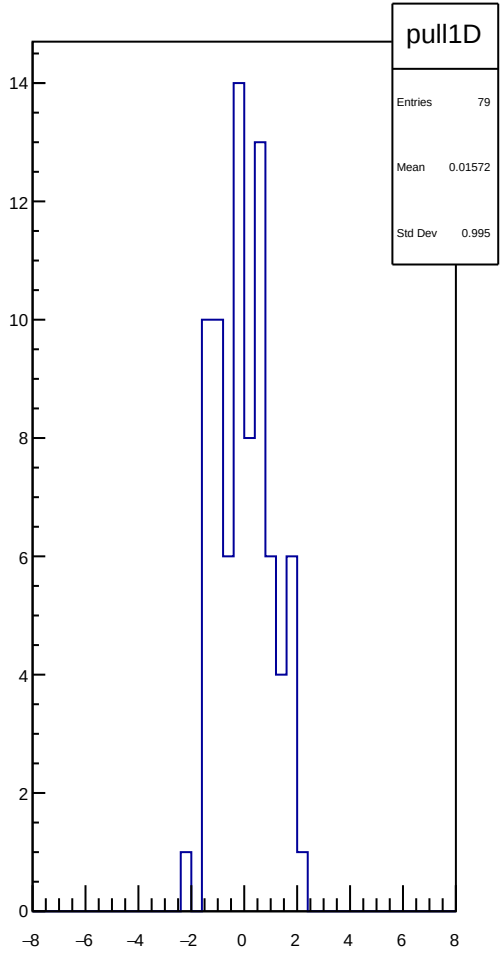

asym_usr_atr2_dd_cor_correction_rms vs run
χ^2 / ndf 3048 / 78
p0 4927 ± 3.982
5600
5400
5200
5000
4800
4600
4400

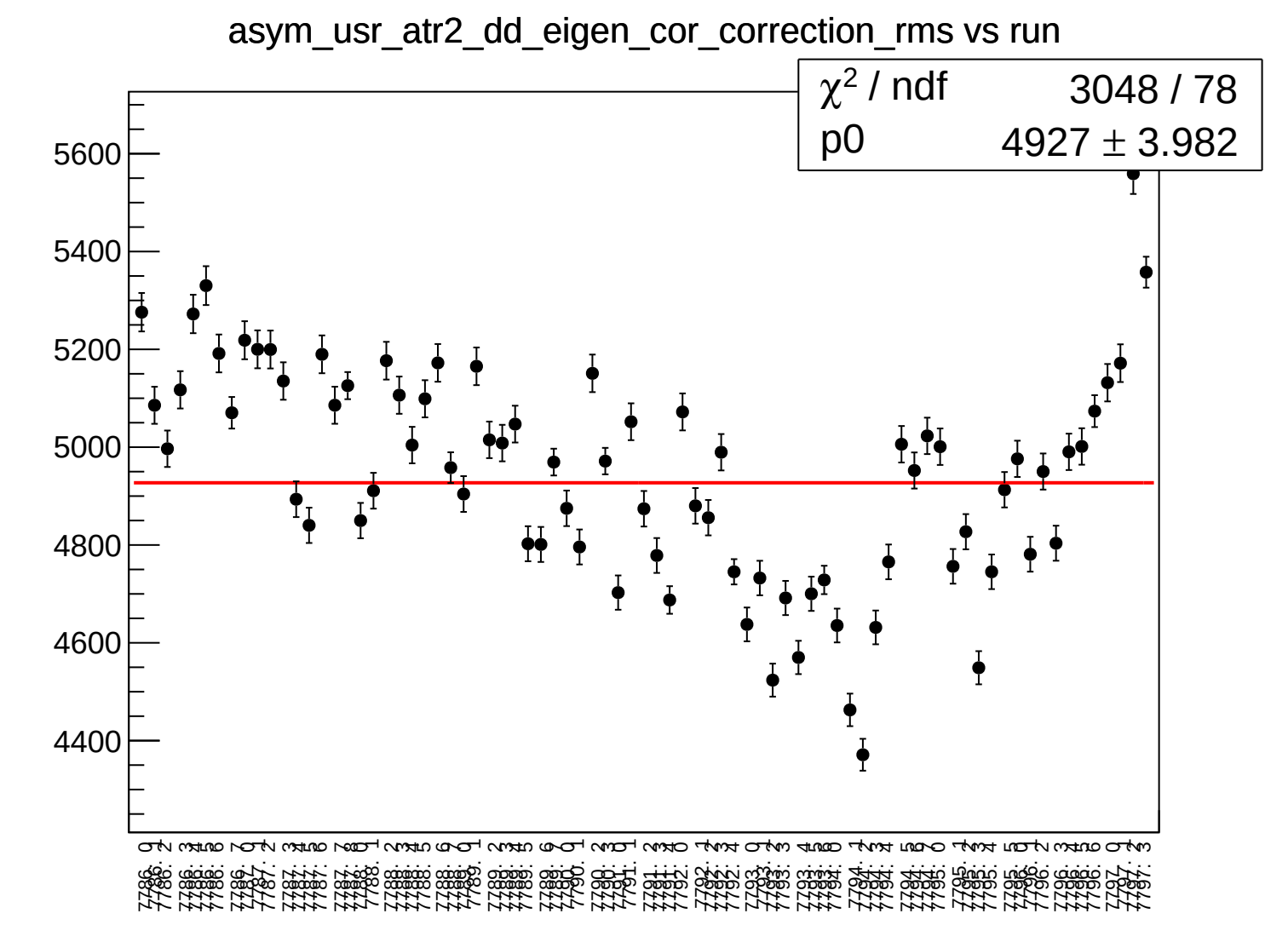

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 81.63 / 78
p0 1707 ± 1500
pull
Entries 79
Mean 28.18
Std Dev 119.9

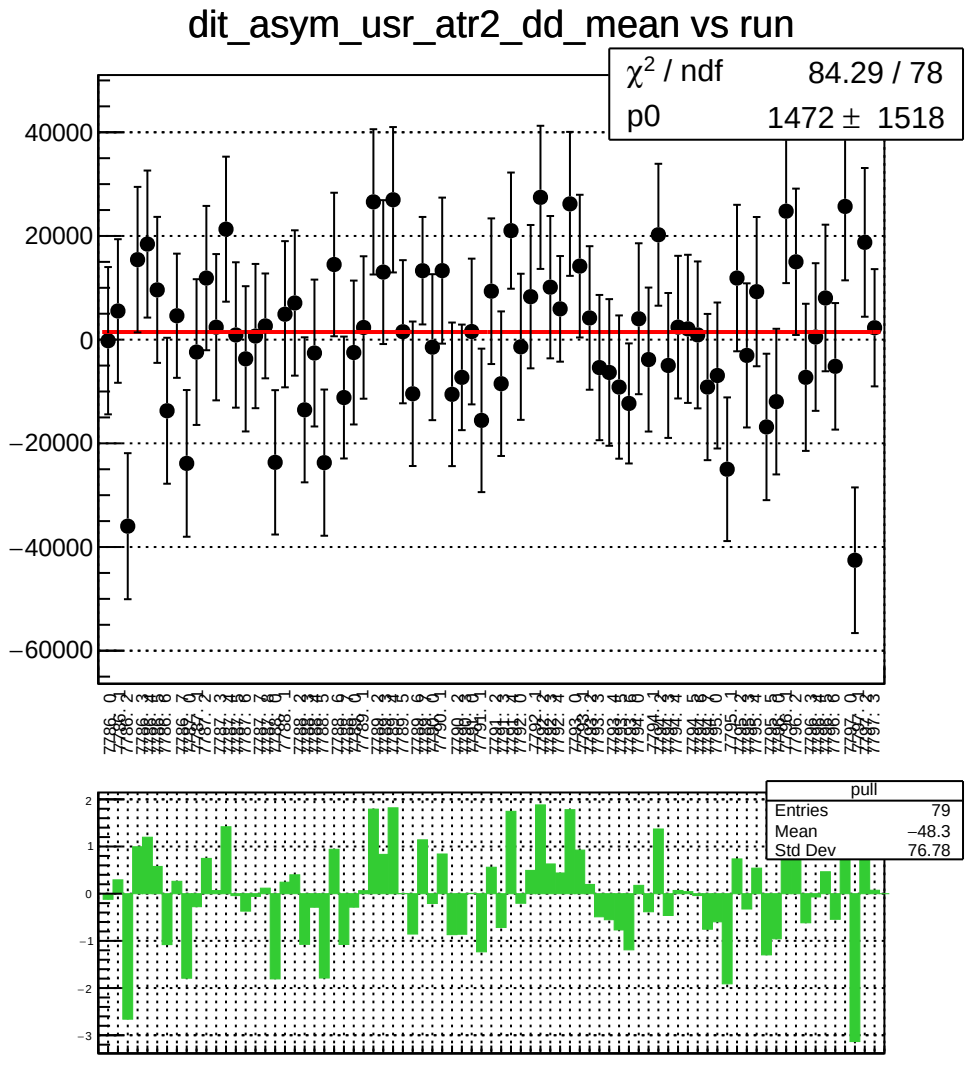

pull1D
Entries 79
Mean −0.003003
Std Dev 1.016

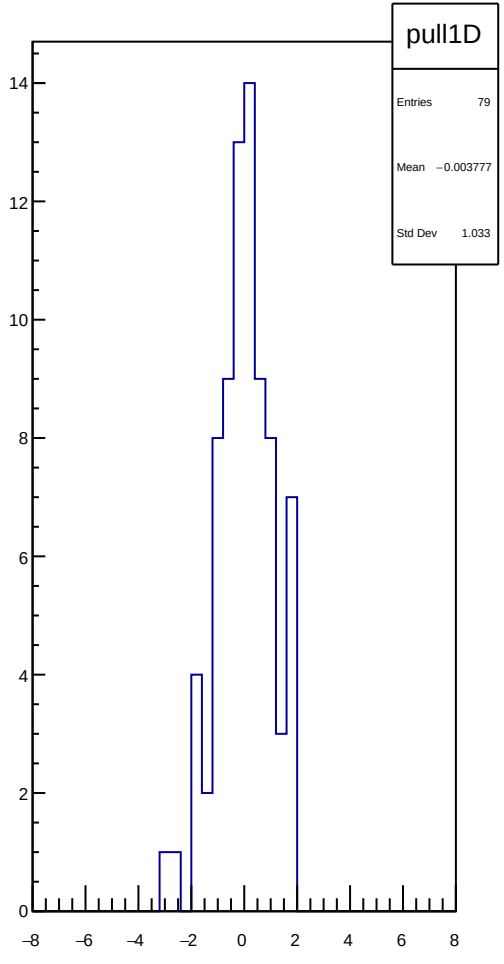

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 209.8 / 78
p0 1313 ± 1.06
1380
1360
1340
1320
1300
1280
1260

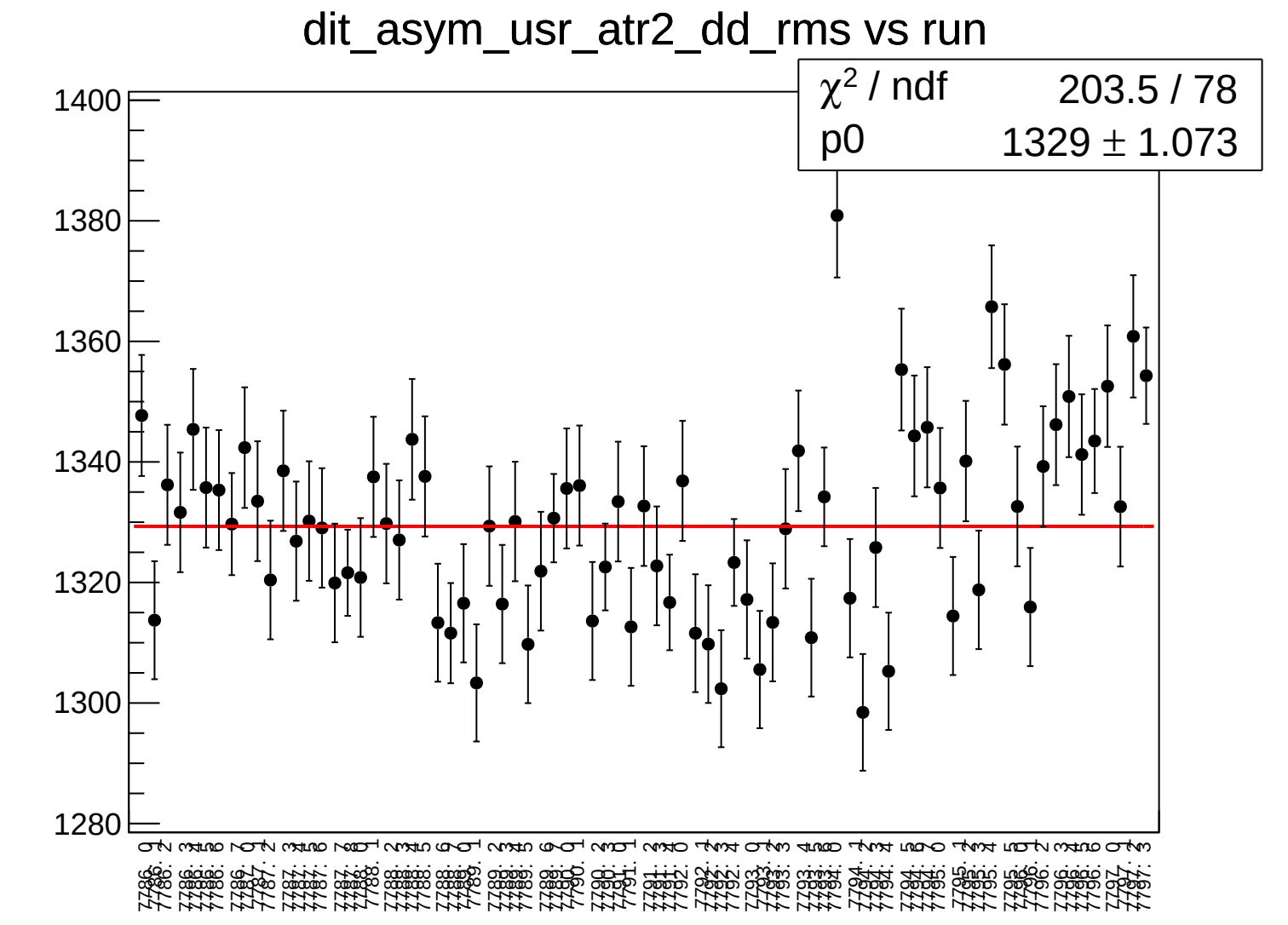

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.24 / 78
p0 −1209 ± 5632
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −252.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

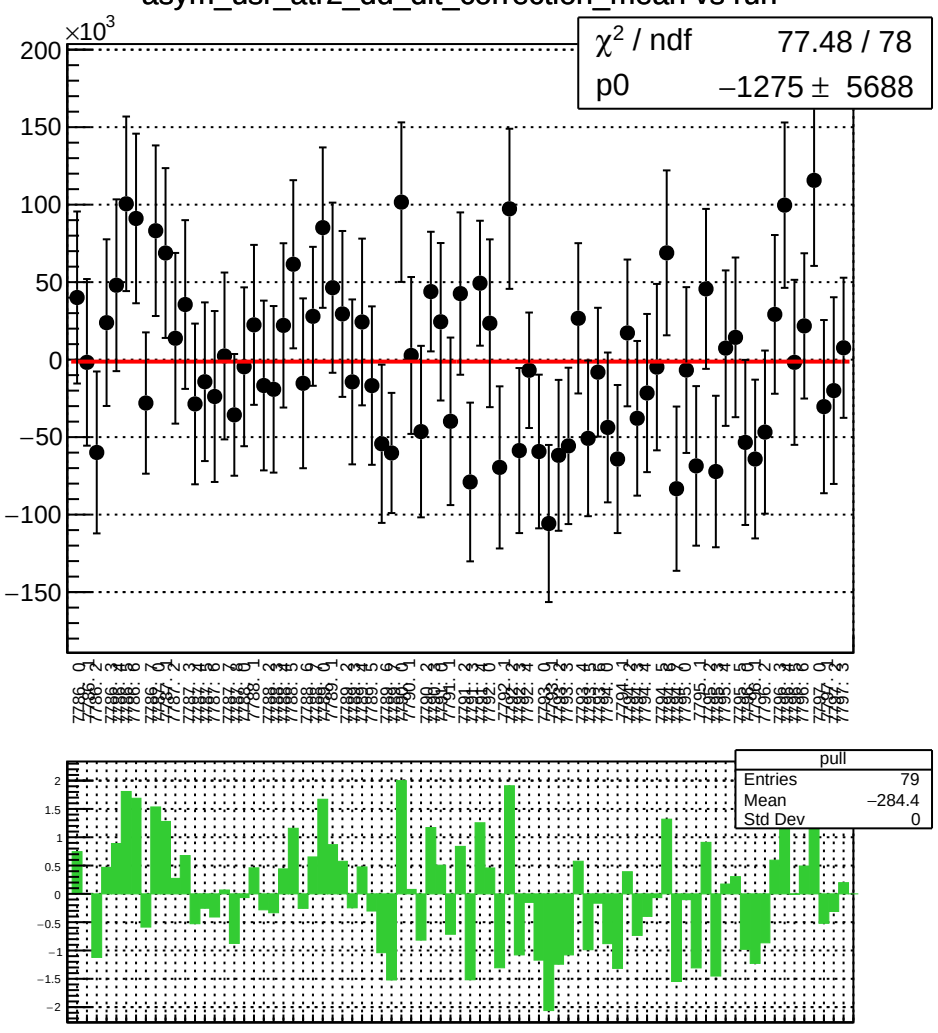

pull1D
Entries 79
Mean 0.01572
Std Dev 0.995
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

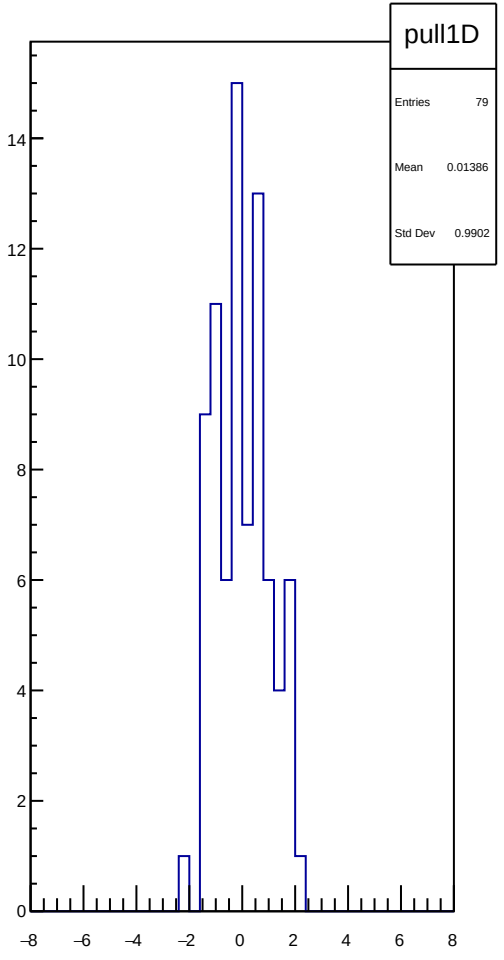

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3048 / 78
p0 4927 ± 3.982
5600
5400
5200
5000
4800
4600
4400

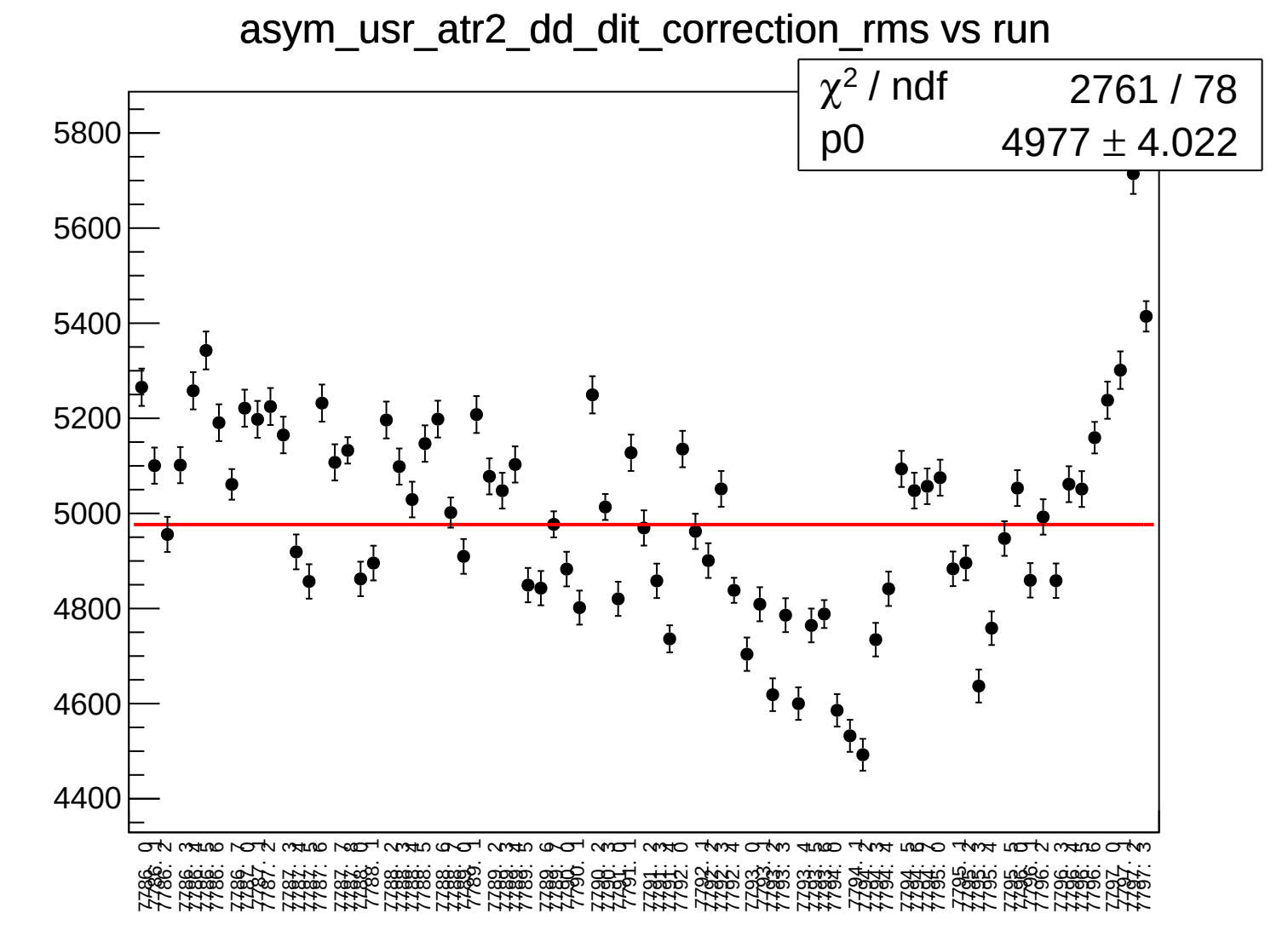

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 84.29 / 78
p0 1472 ± 1518
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −48.3
Std Dev 76.78
2
1
0
−1
−2
−3

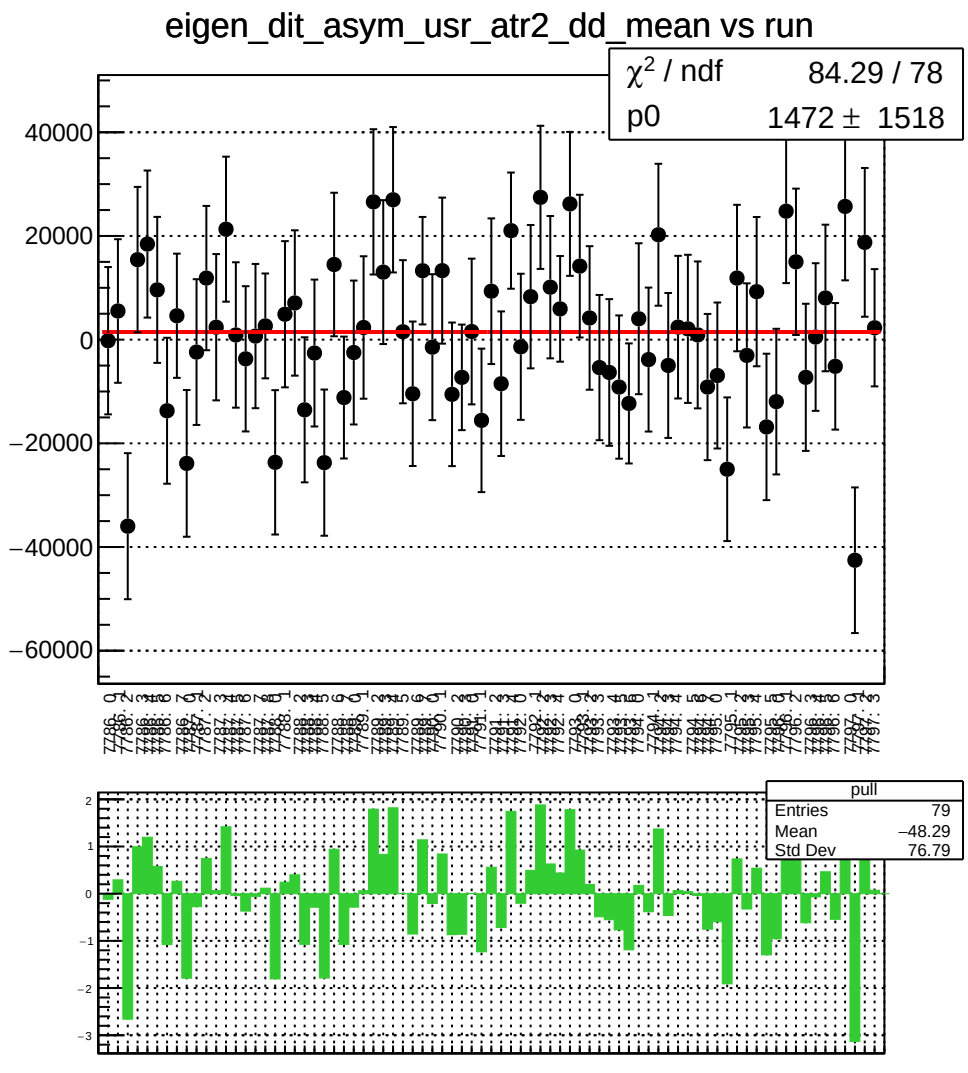

pull1D
Entries 79
Mean −0.003777
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

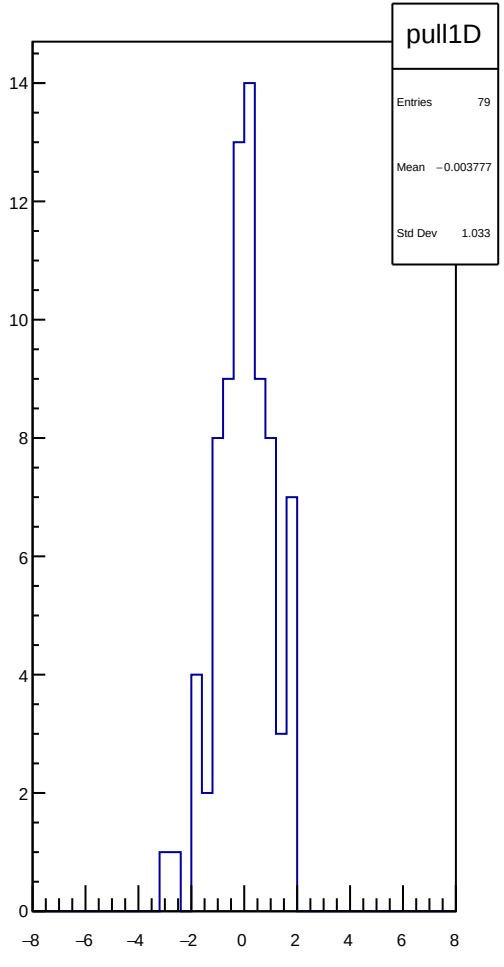

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 203.5 / 78
p0 1329 ± 1.073
1400
1380
1360
1340
1320
1300
1280

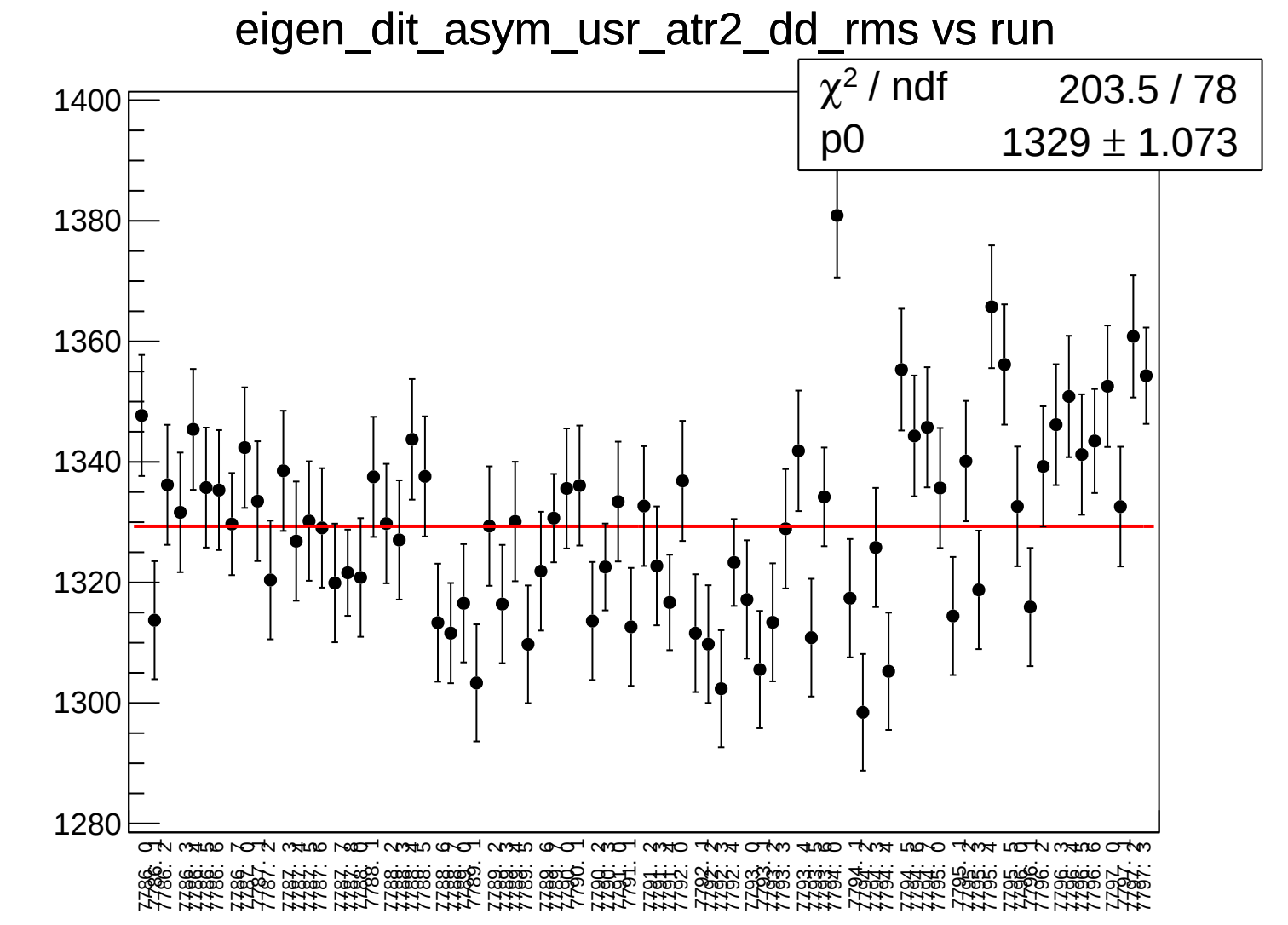

asym_usr_atr2_dd_dit_correction_mean vs run
χ^2 / ndf 77.48 / 78
p0 −1275 ± 5688
×10^3
pull
Entries 79
Mean −284.4
Std Dev 0

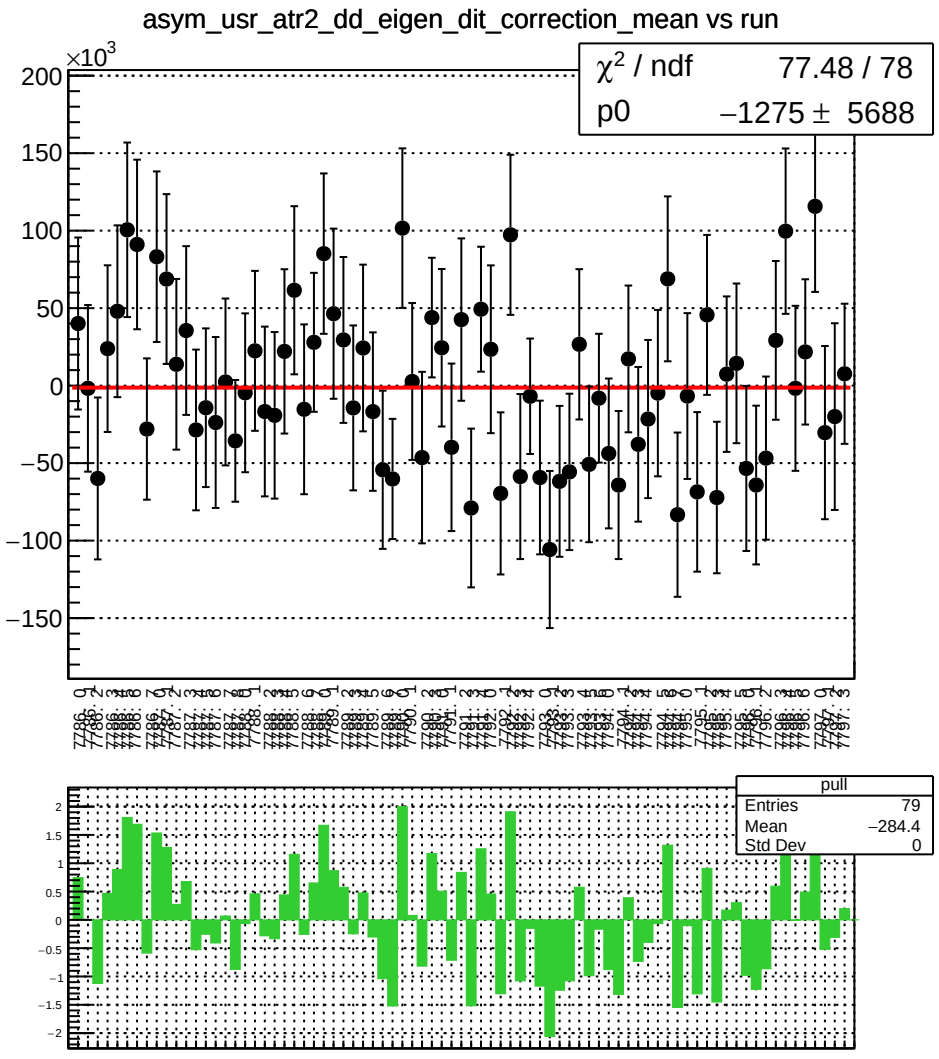

pull1D
Entries 79
Mean 0.01386
Std Dev 0.9902

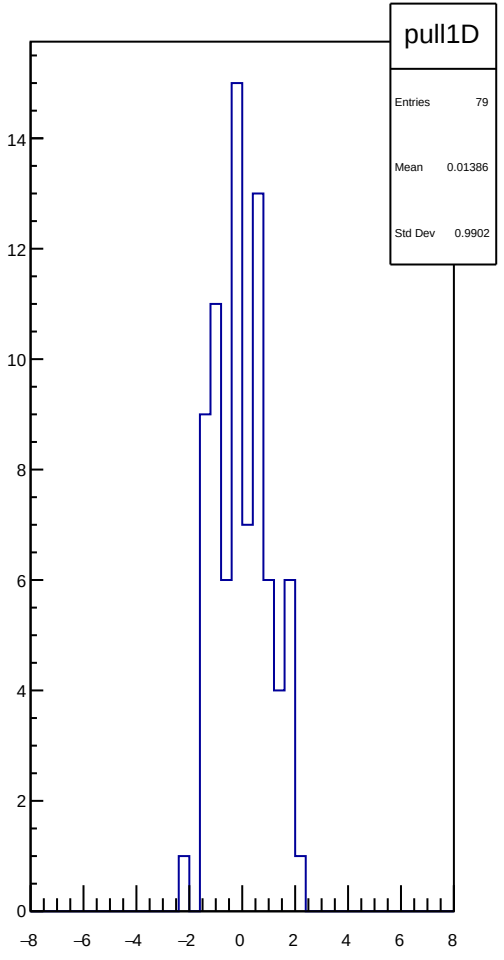

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 2761 / 78
p0 4977 ± 4.022
5800
5600
5400
5200
5000
4800
4600
4400

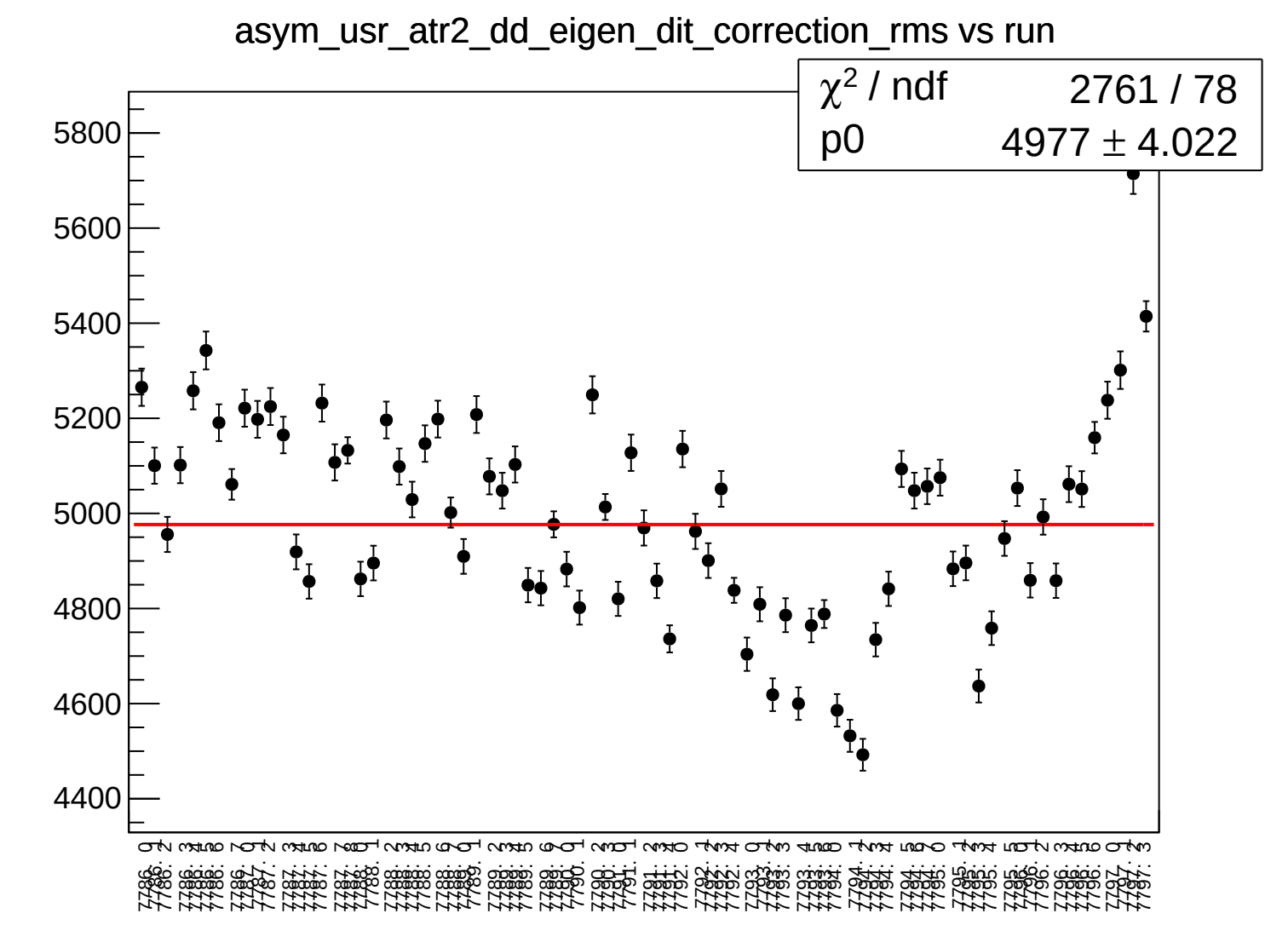

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 84.29 / 78
p0 1472 ± 1518
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −48.29
Std Dev 76.79
2
1
0
−1
−2
−3

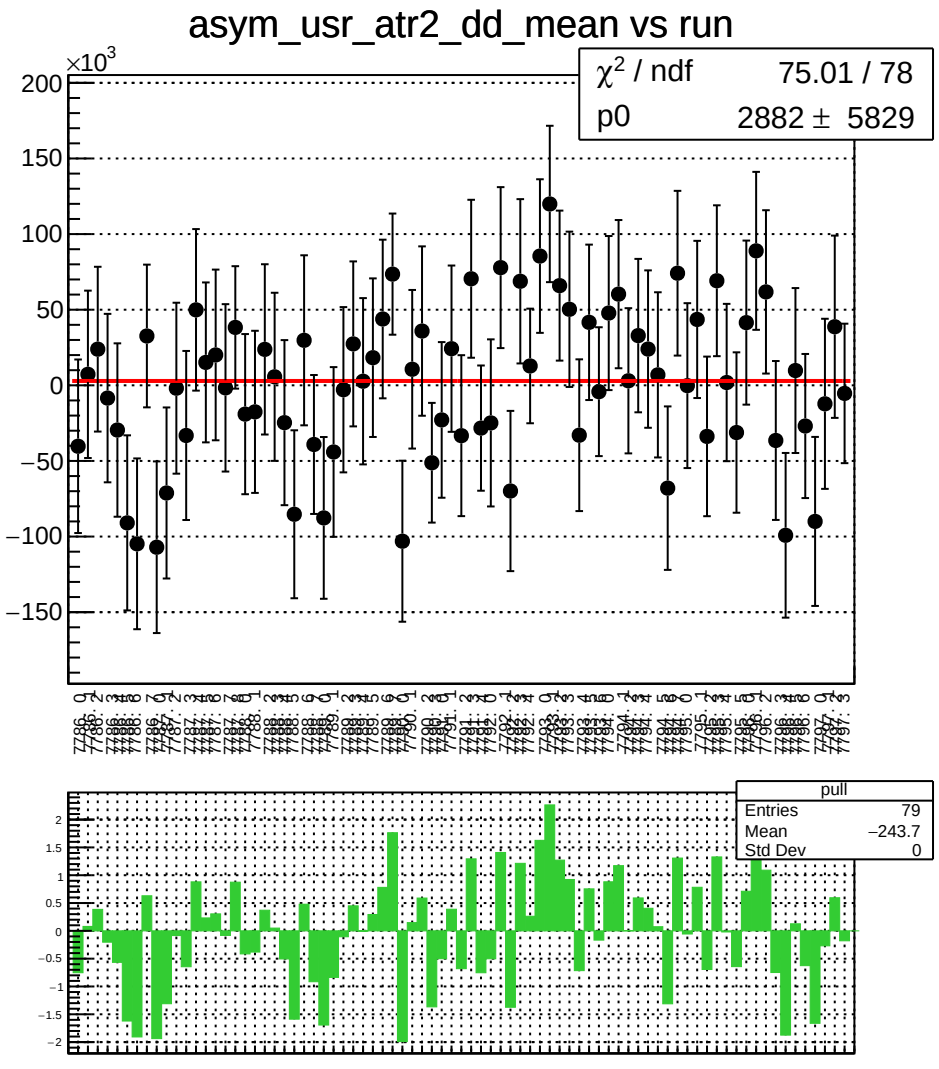

pull1D
Entries 79
Mean −0.003777
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

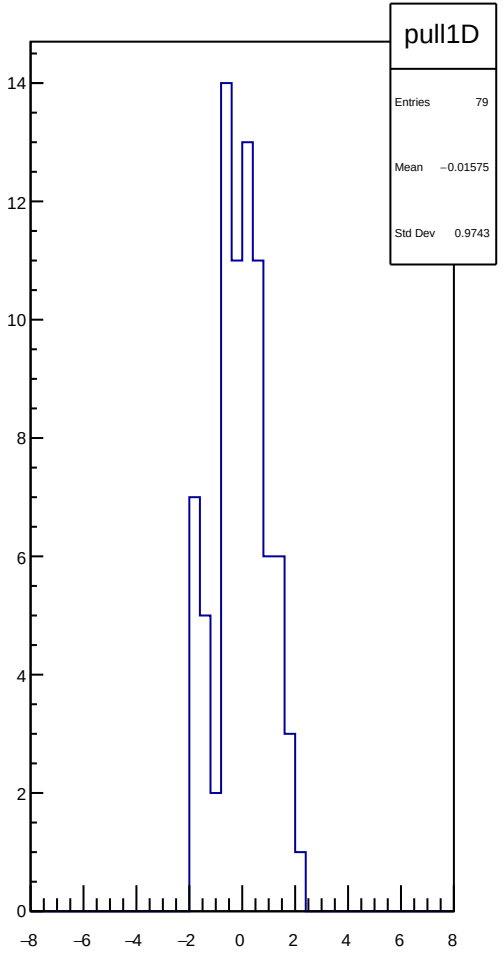

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 203.5 / 78
p0 1329 ± 1.073
1400
1380
1360
1340
1320
1300
1280

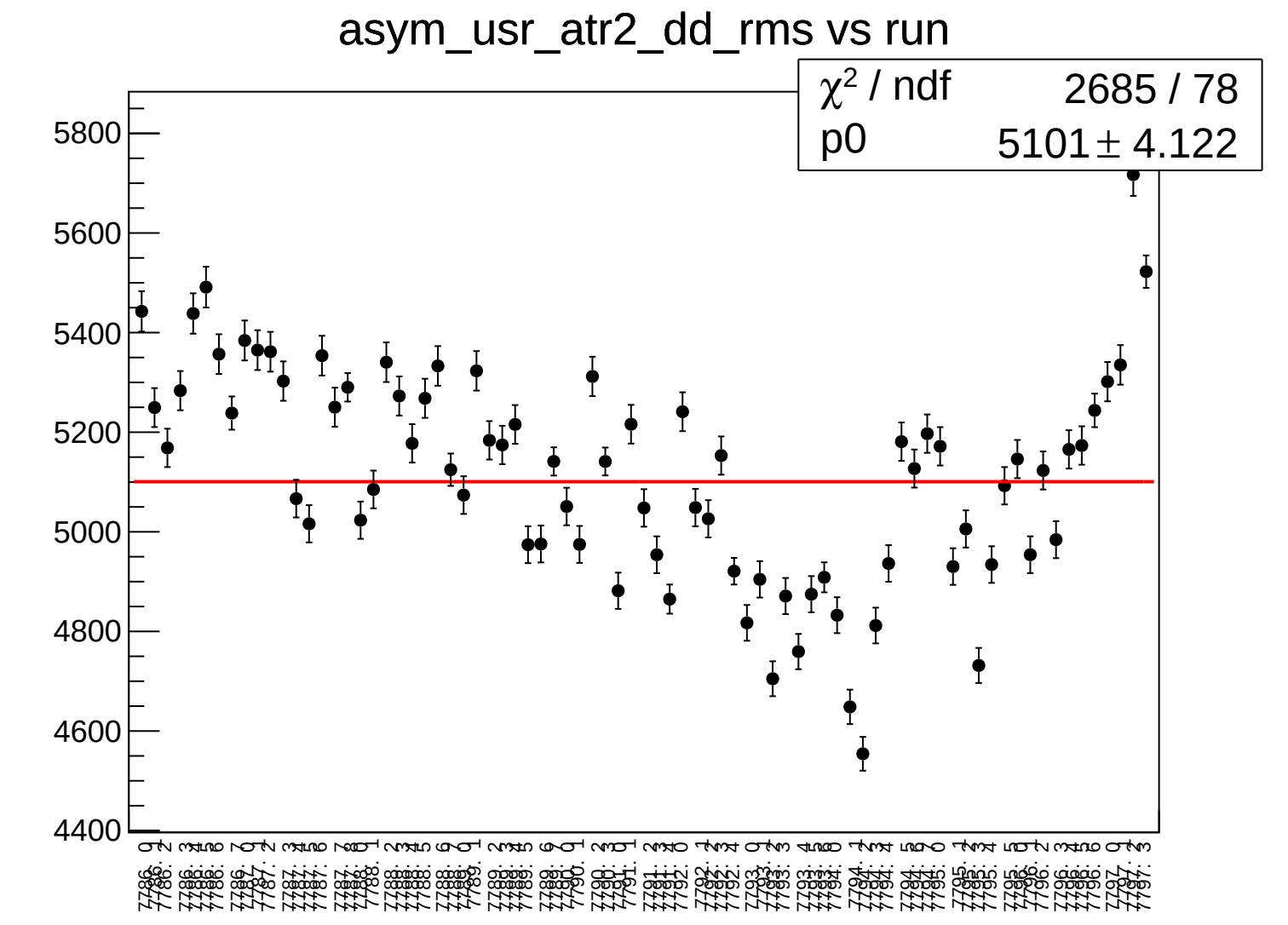

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.48 / 78
p0 −1275 ± 5688
pull
Entries 79
Mean −284.4
Std Dev 0

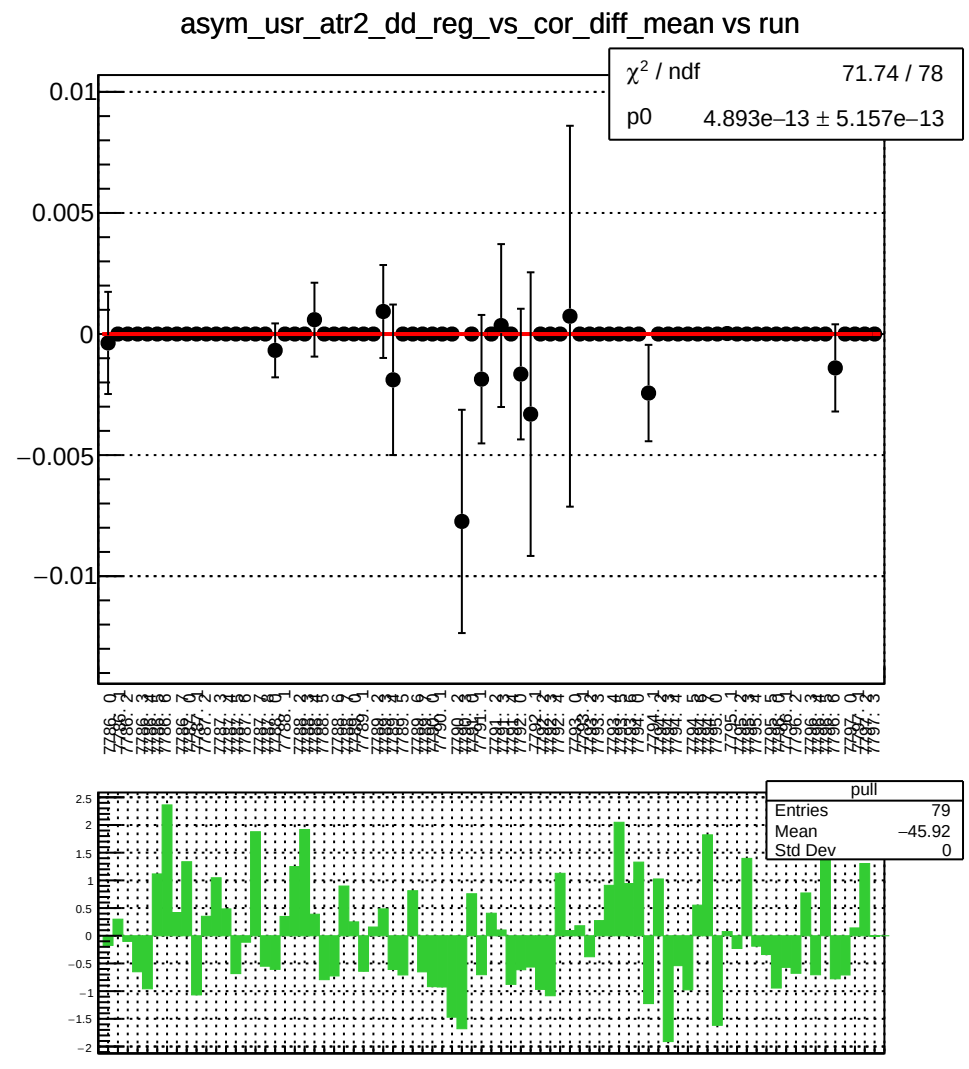

pull1D
Entries 79
Mean 0.01386
Std Dev 0.9902

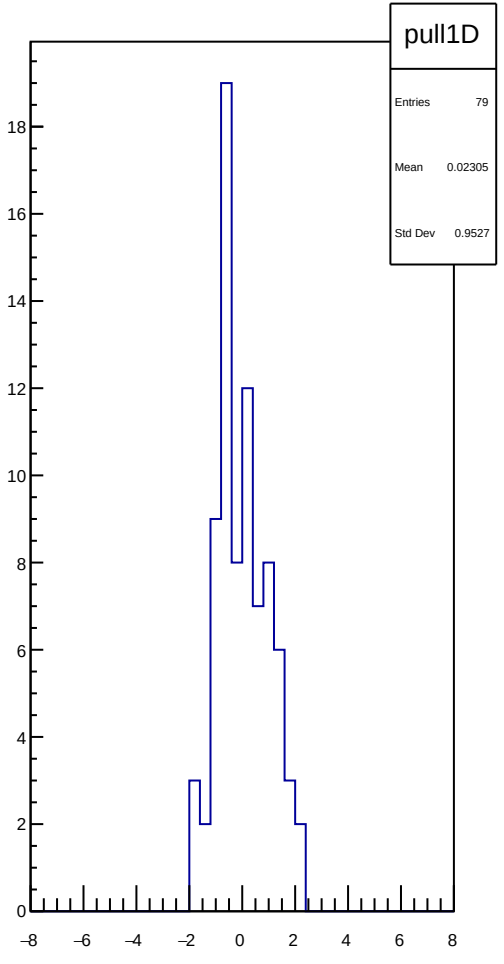

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2761 / 78
p0 4977 ± 4.022
5800
5600
5400
5200
5000
4800
4600
4400

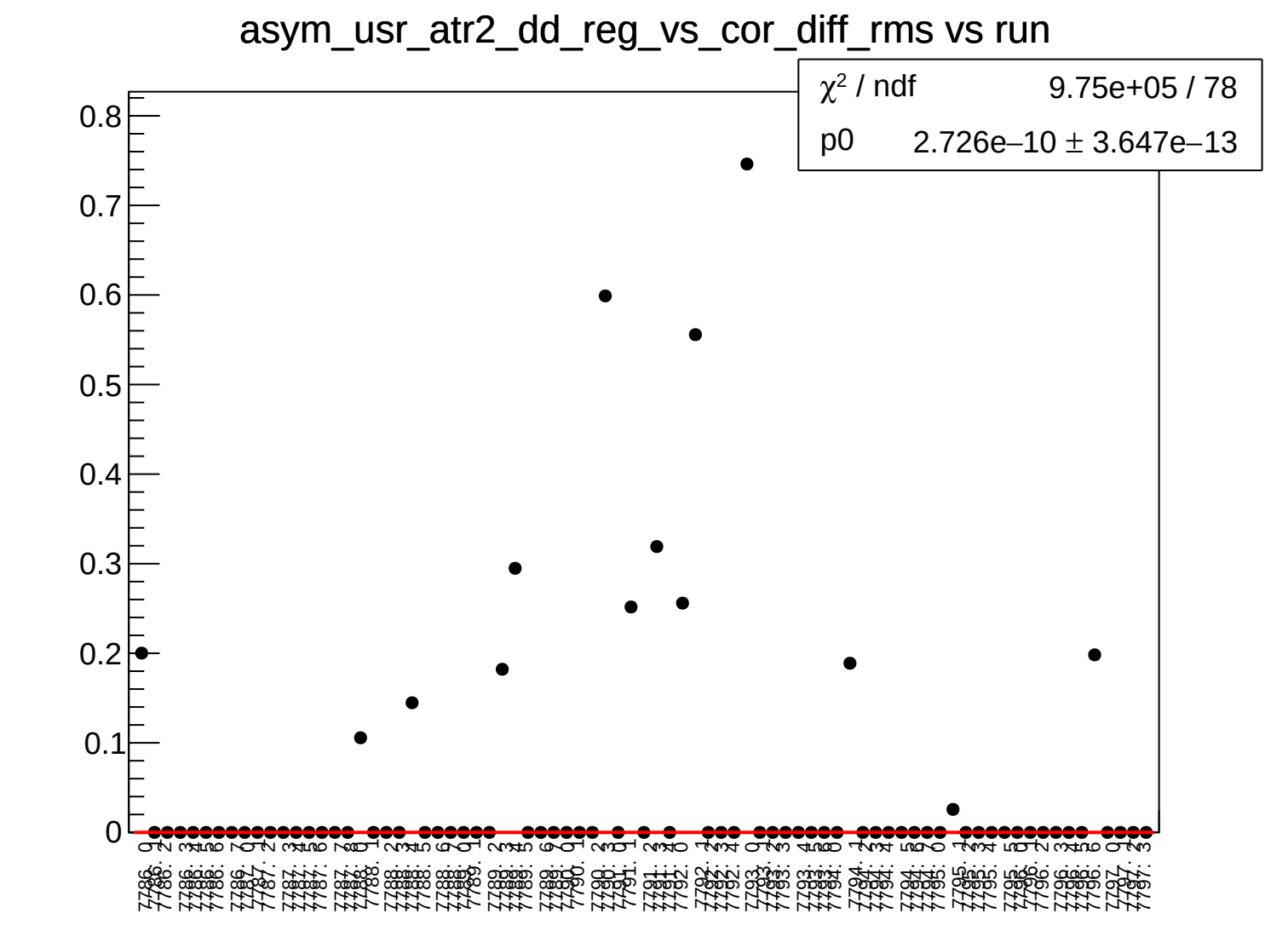

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 75.01 / 78
p0 2882 ± 5829
200
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −243.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

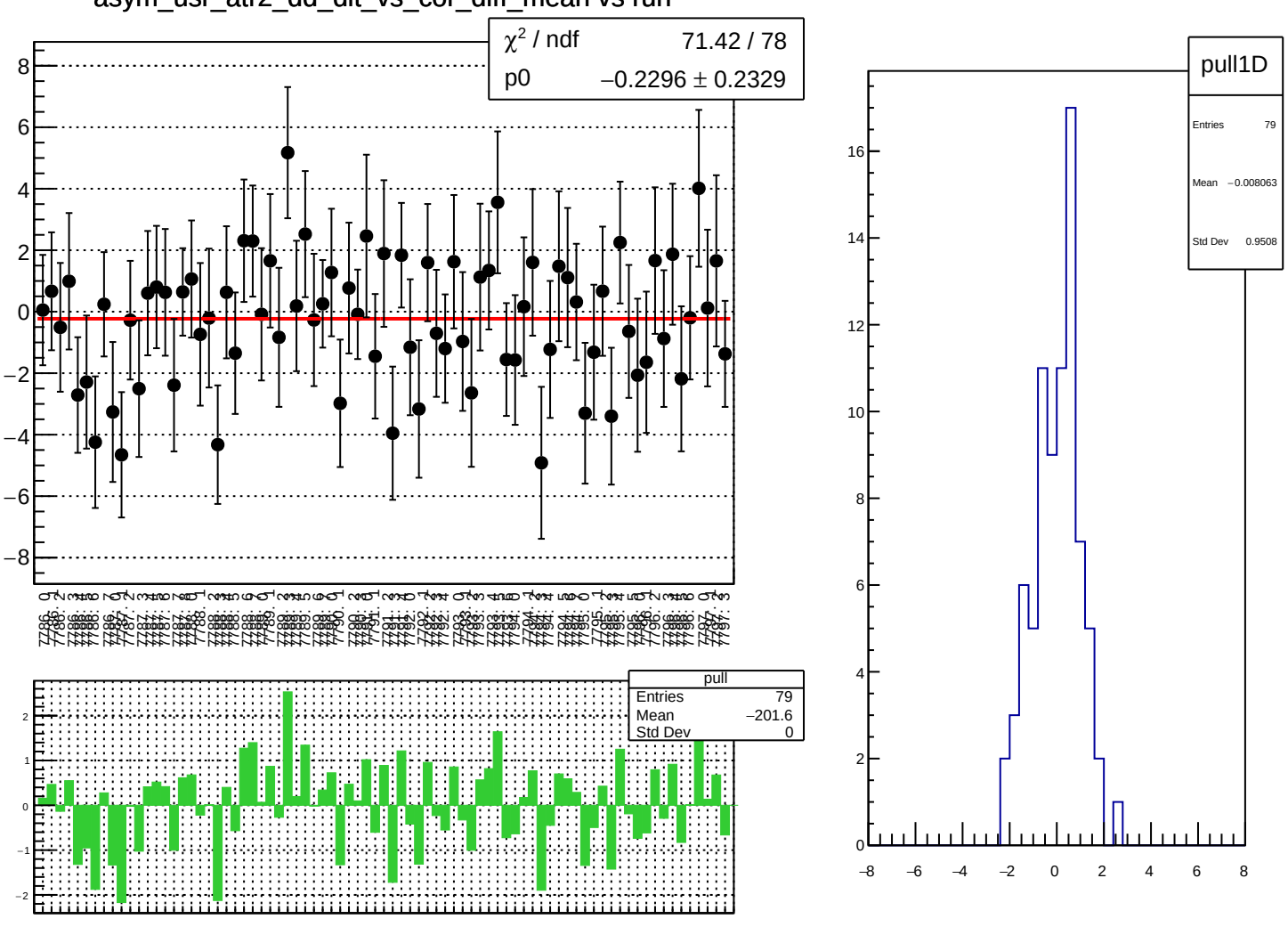

pull1D
Entries 79
Mean −0.01575
Std Dev 0.9743
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

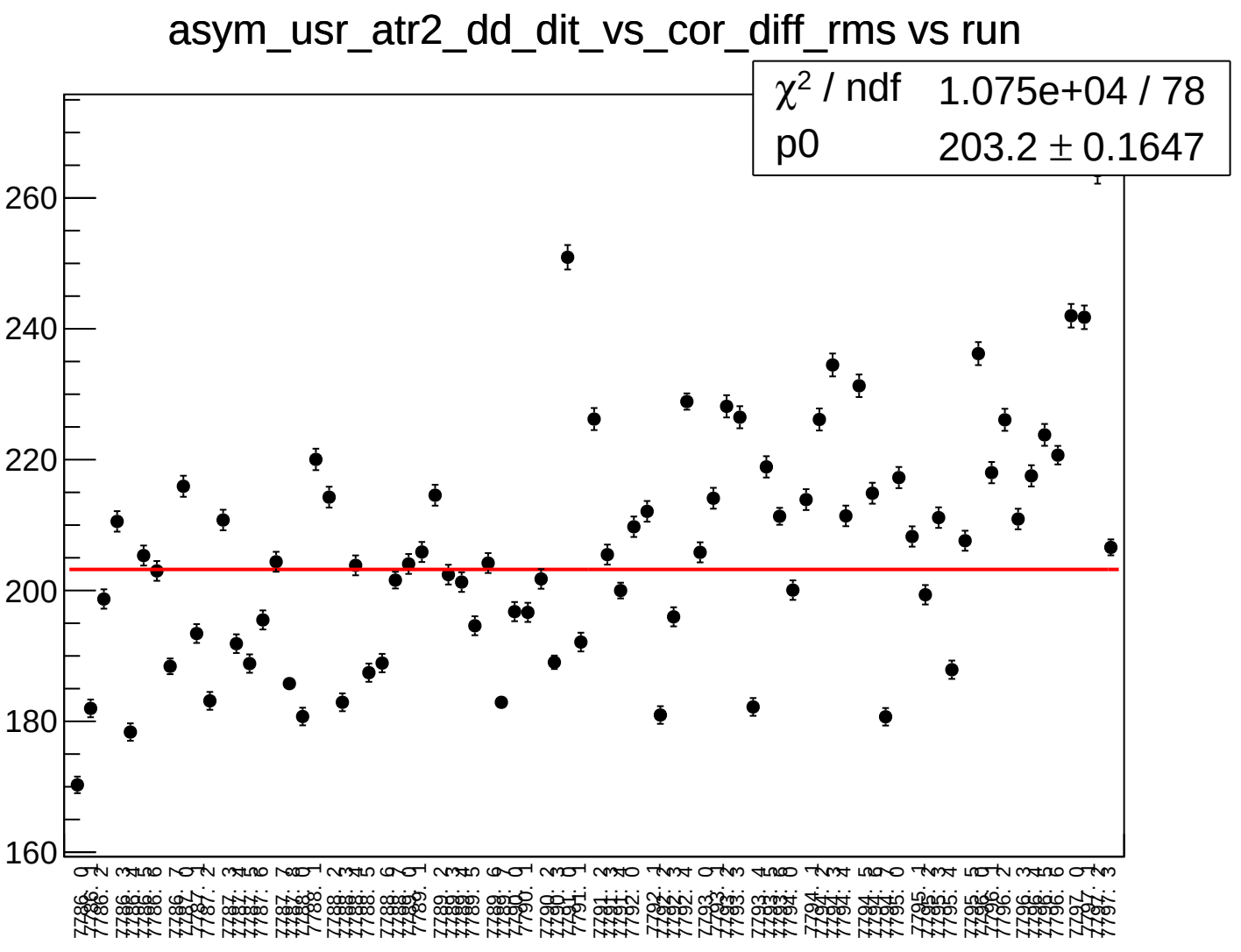

asym_usr_atr2_dd_rms vs run
χ² / ndf 2685 / 78
p0 5101 ± 4.122
5800
5600
5400
5200
5000
4800
4600
4400

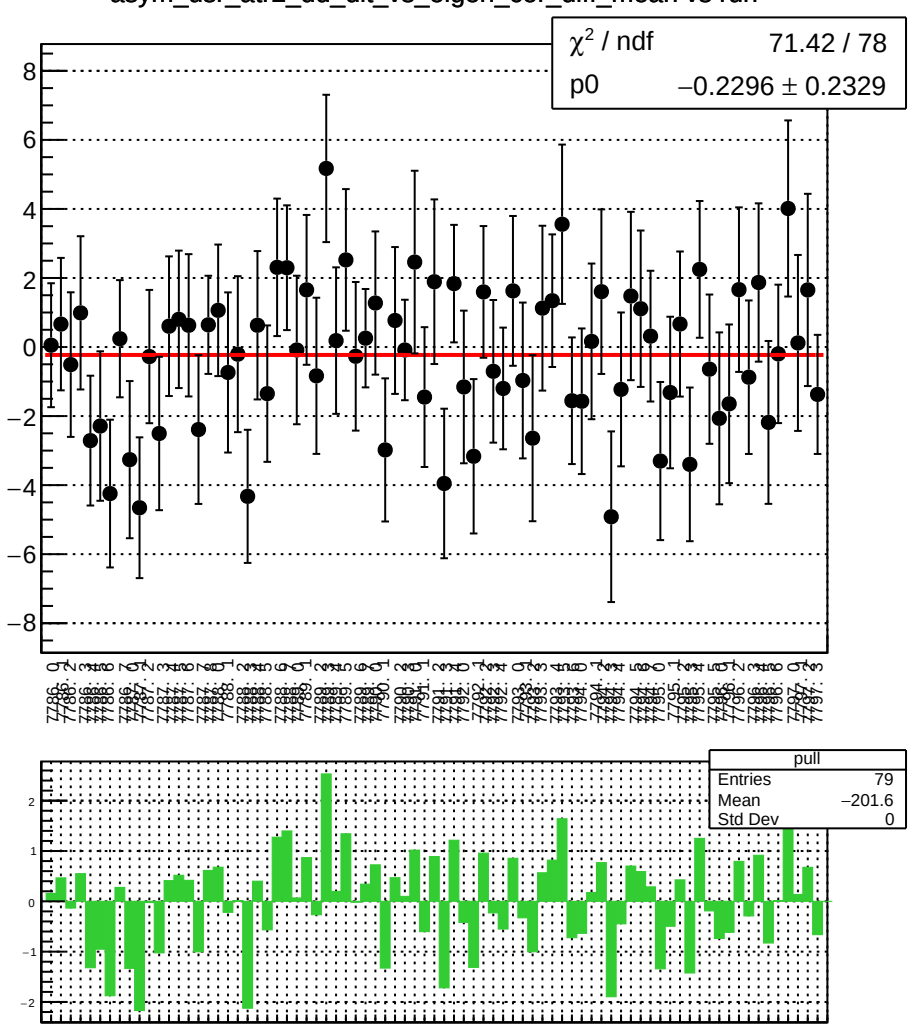

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.74 / 78
p0 4.893e−13 ± 5.157e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 79
Mean −45.92
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

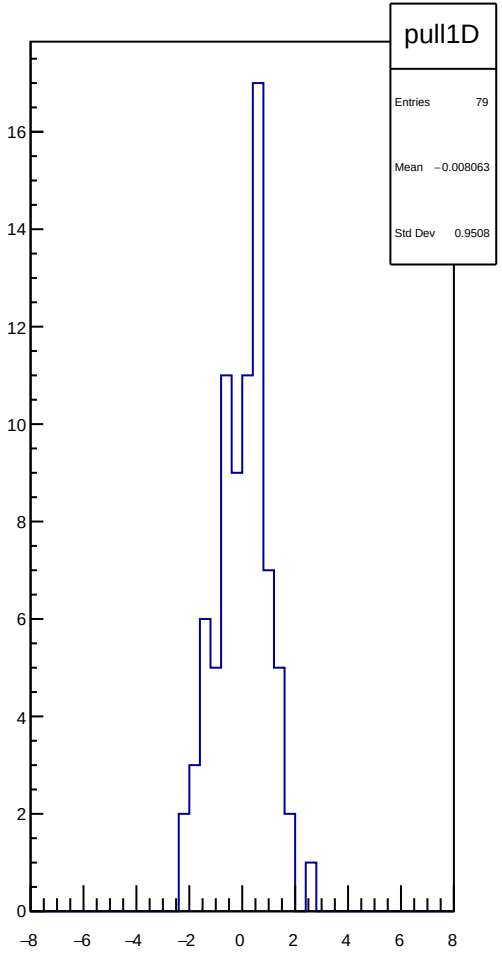

pull1D
Entries 79
Mean 0.02305
Std Dev 0.9527
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

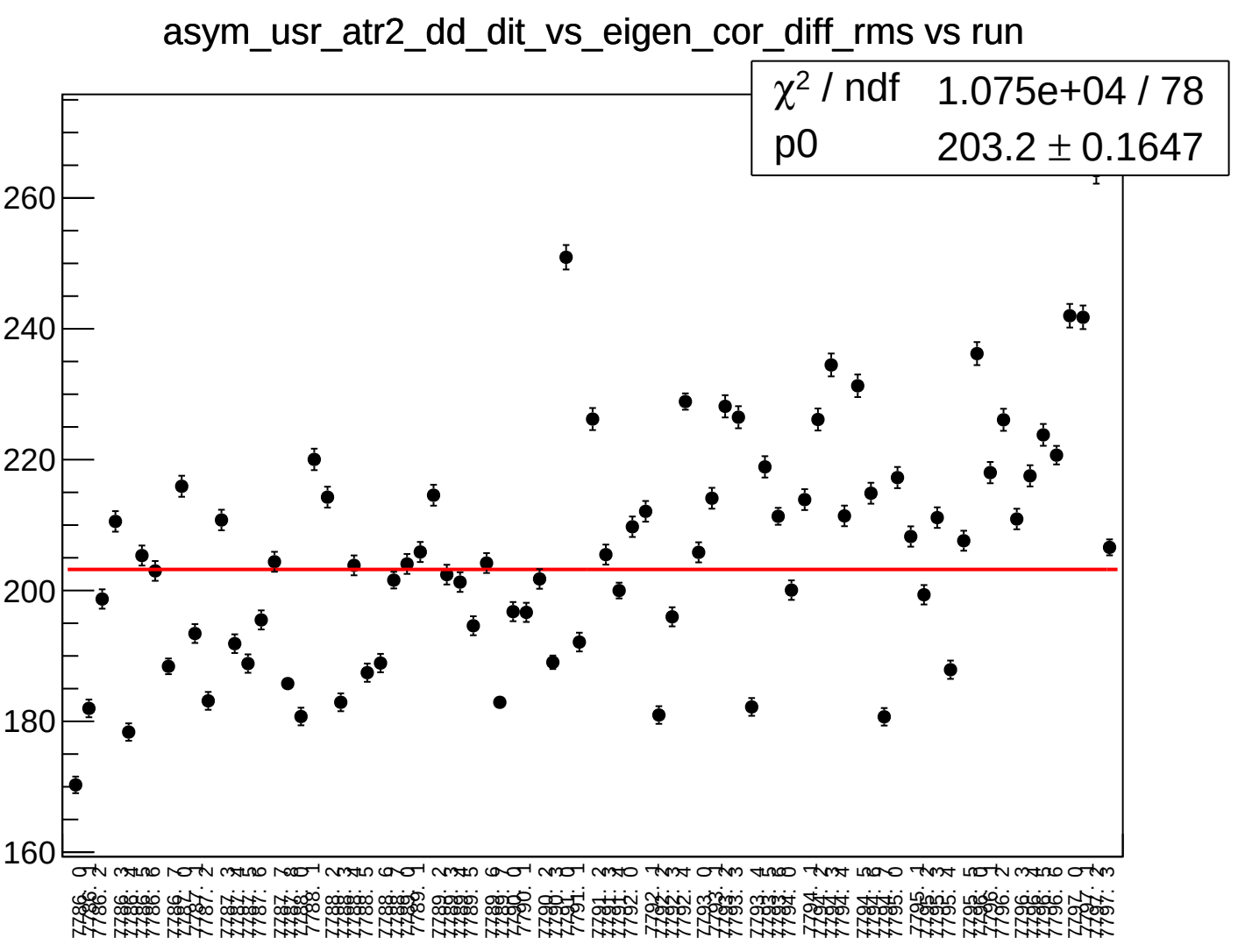

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.75e+05 / 78
p0 2.726e−10 ± 3.647e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

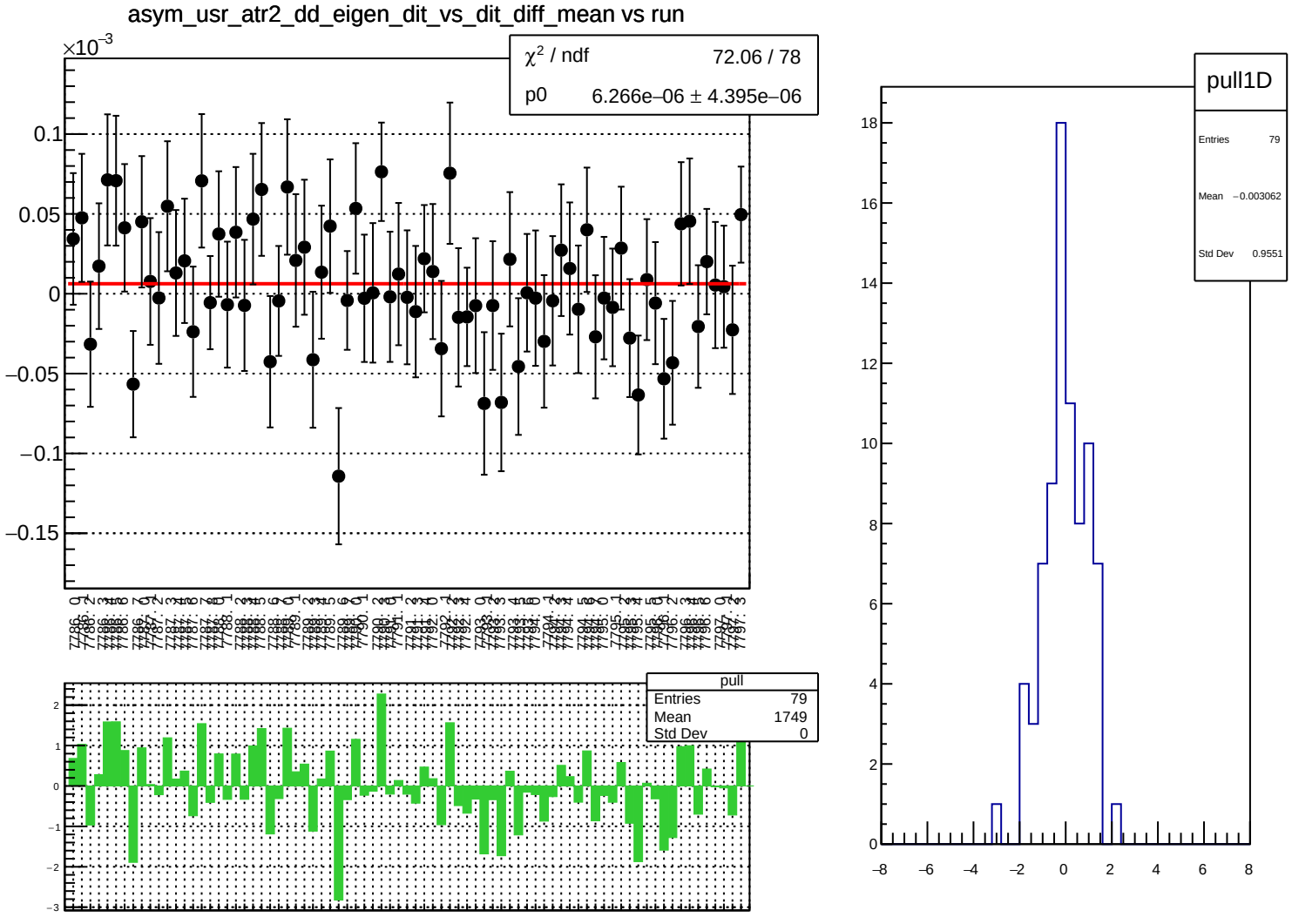

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.42 / 78
p0 −0.2296 ± 0.2329
pull
Entries 79
Mean −201.6
Std Dev 0
pull1D
Entries 79
Mean −0.008063
Std Dev 0.9508

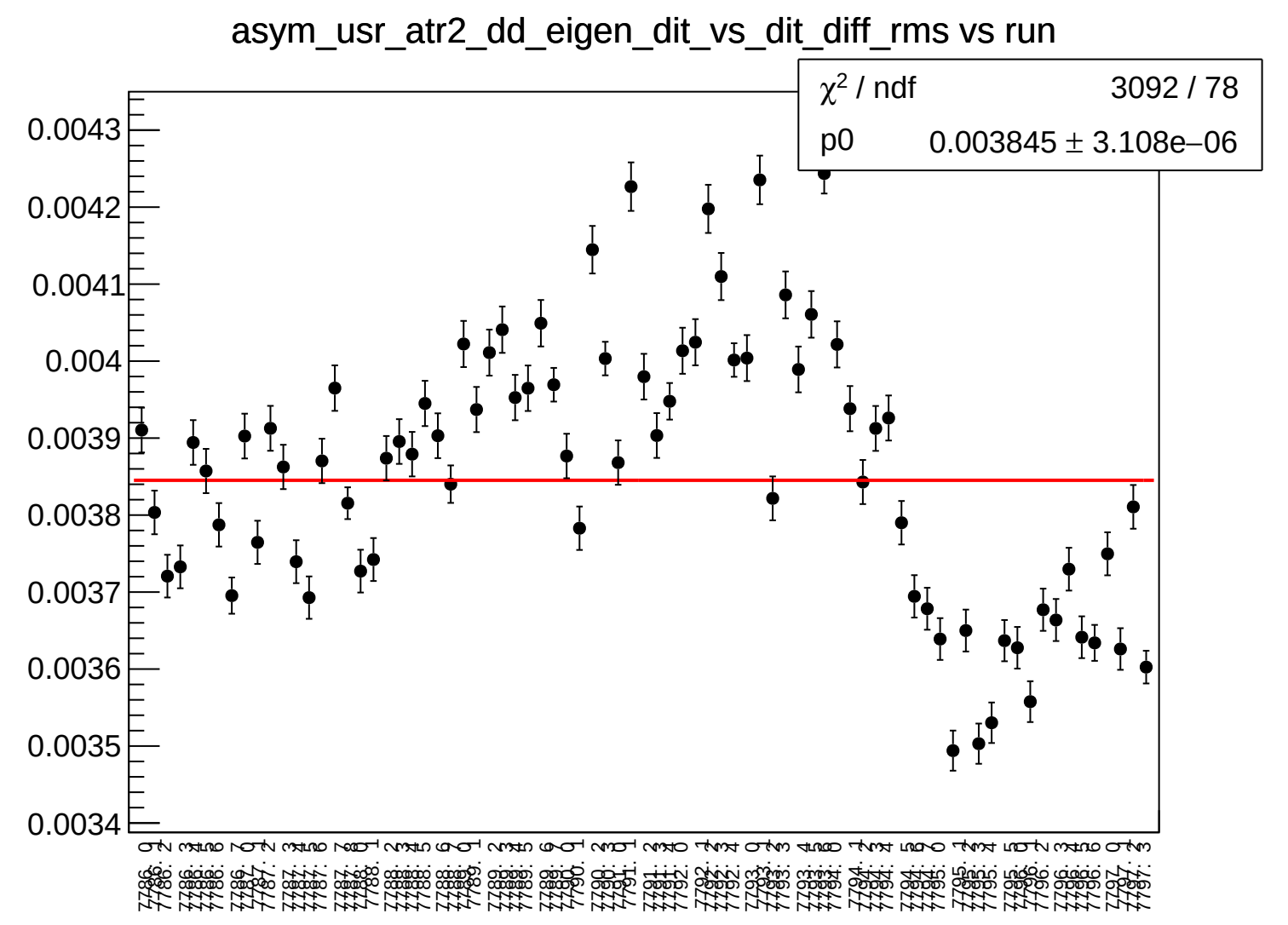

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.075e+04 / 78
p0 203.2 ± 0.1647
260
240
220
200
180
160

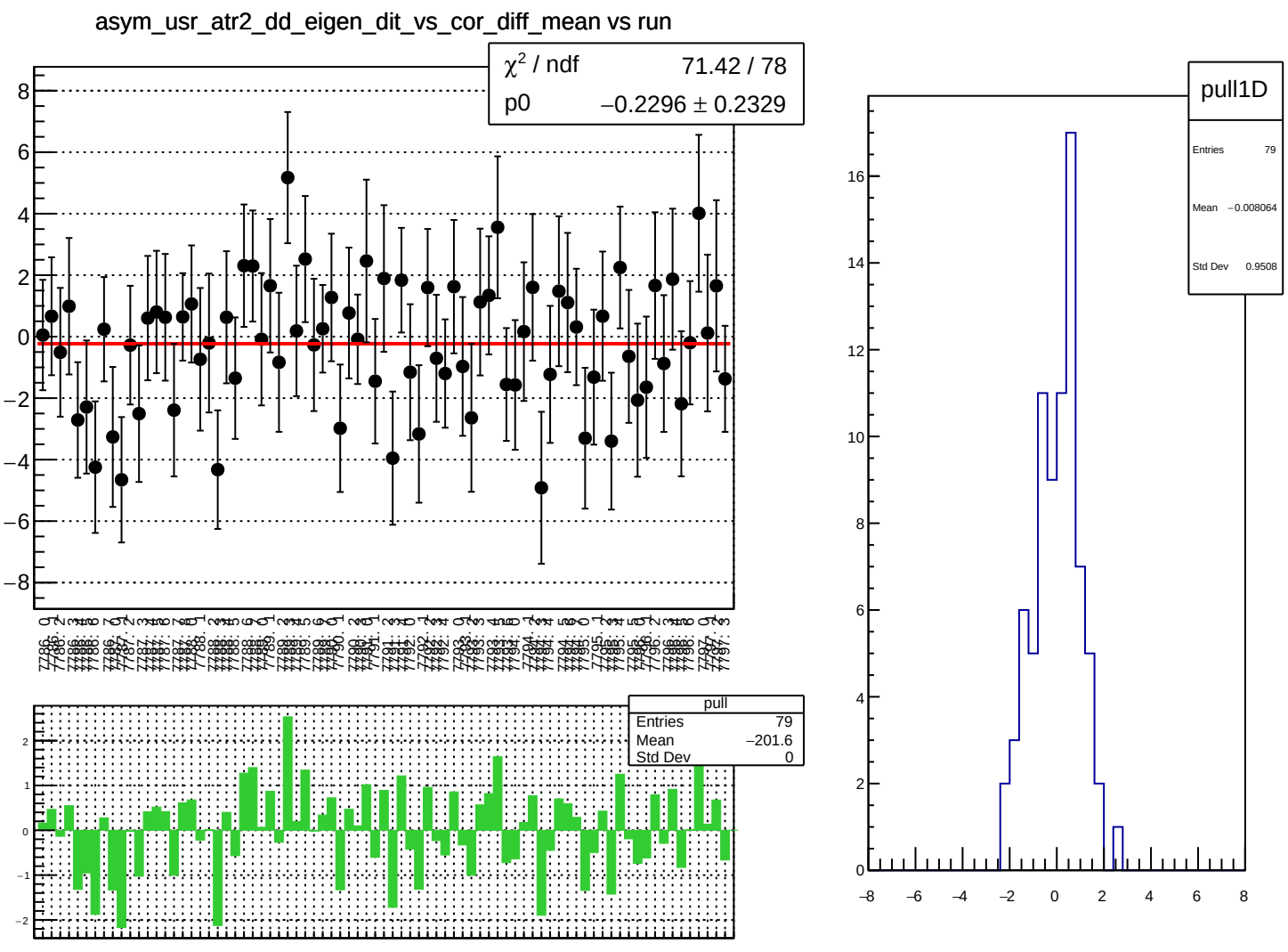

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.42 / 78
p0 −0.2296 ± 0.2329
pull
Entries 79
Mean −201.6
Std Dev 0

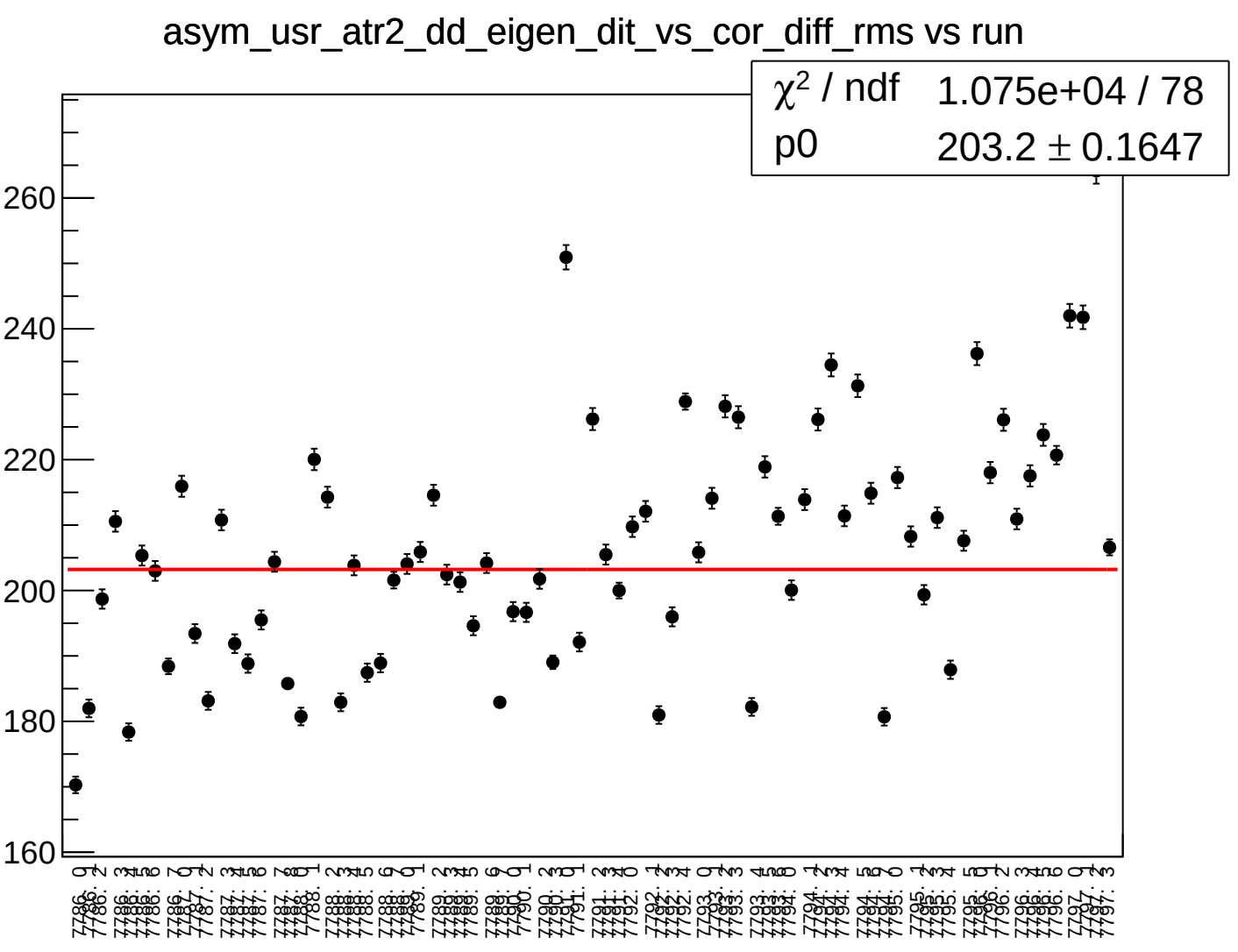

pull1D
Entries 79
Mean −0.008063
Std Dev 0.9508

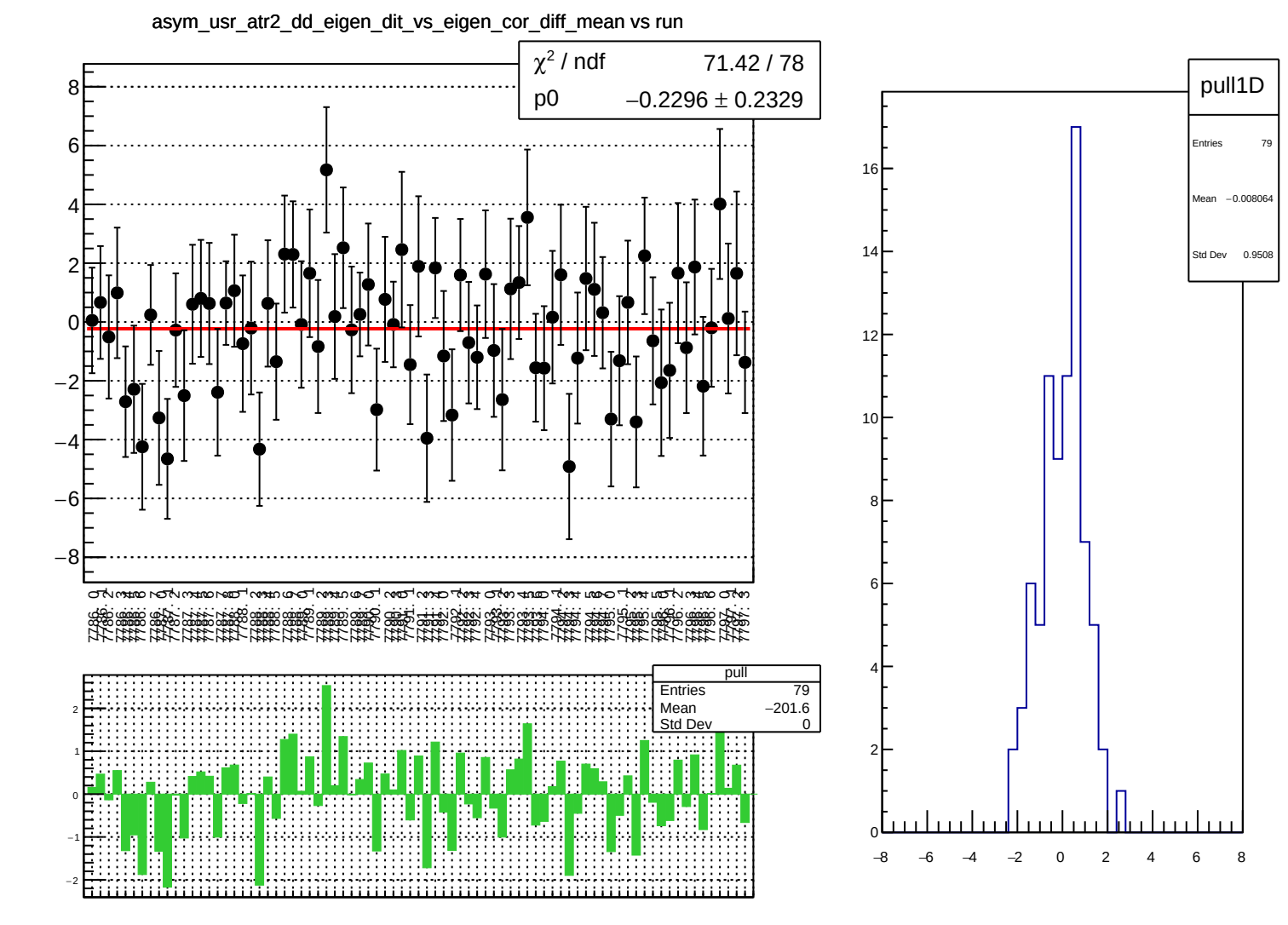

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.075e+04 / 78
p0 203.2 ± 0.1647
260
240
220
200
180
160

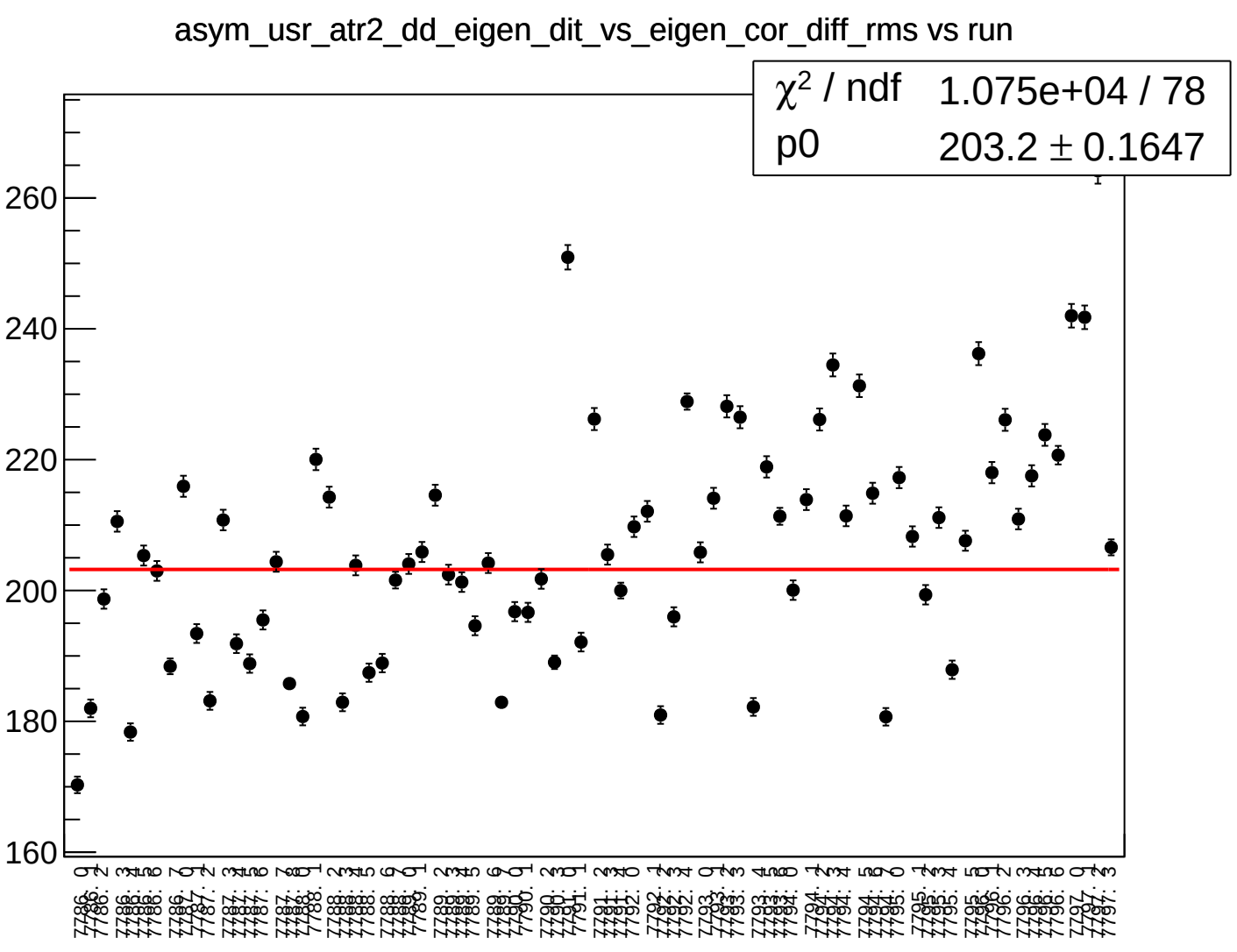

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.06 / 78
p0 6.266e−06 ± 4.395e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 79
Mean 1749
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 79
Mean −0.003062
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

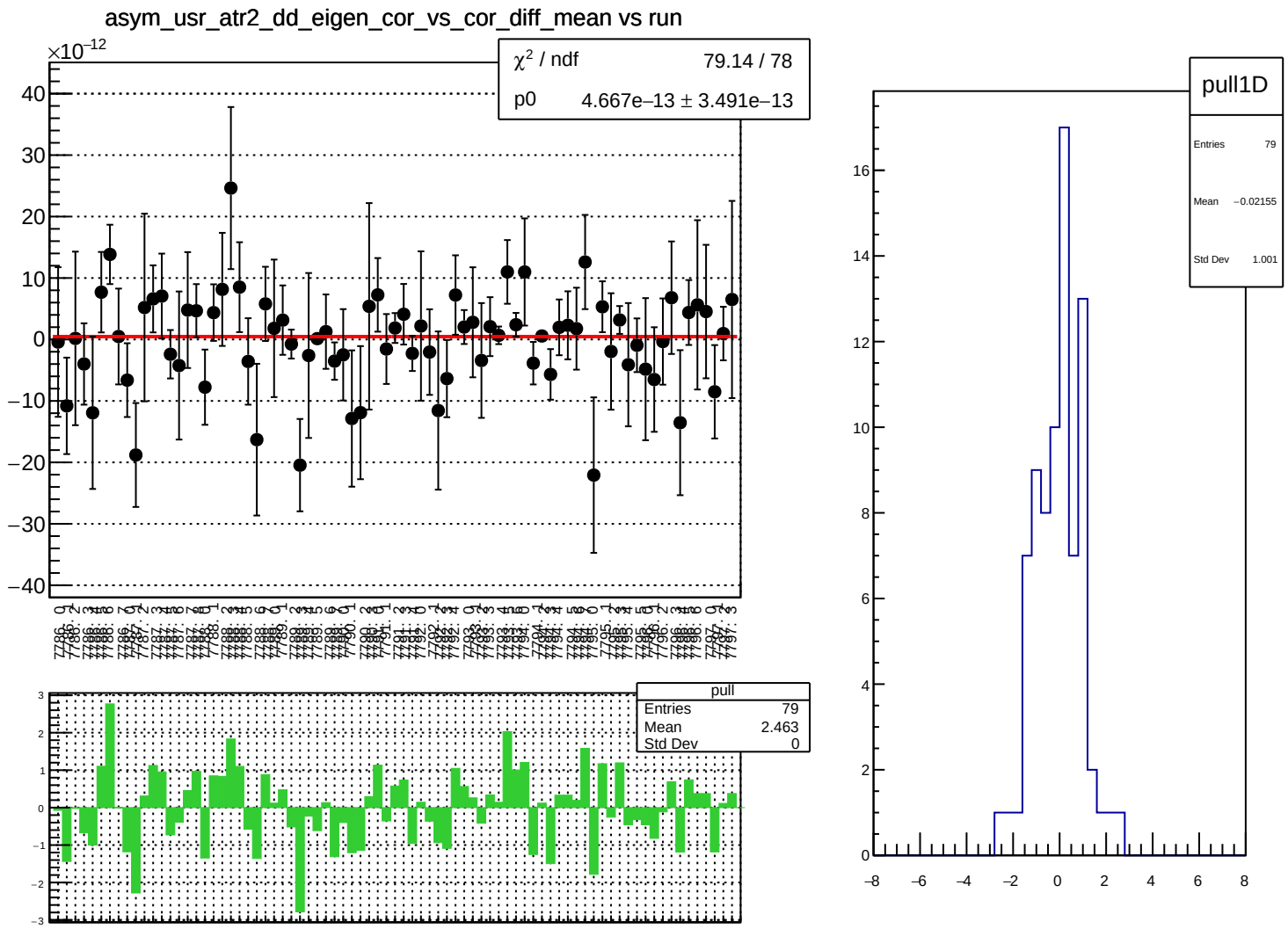

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3092 / 78
p0 0.003845 ± 3.108e−06
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034

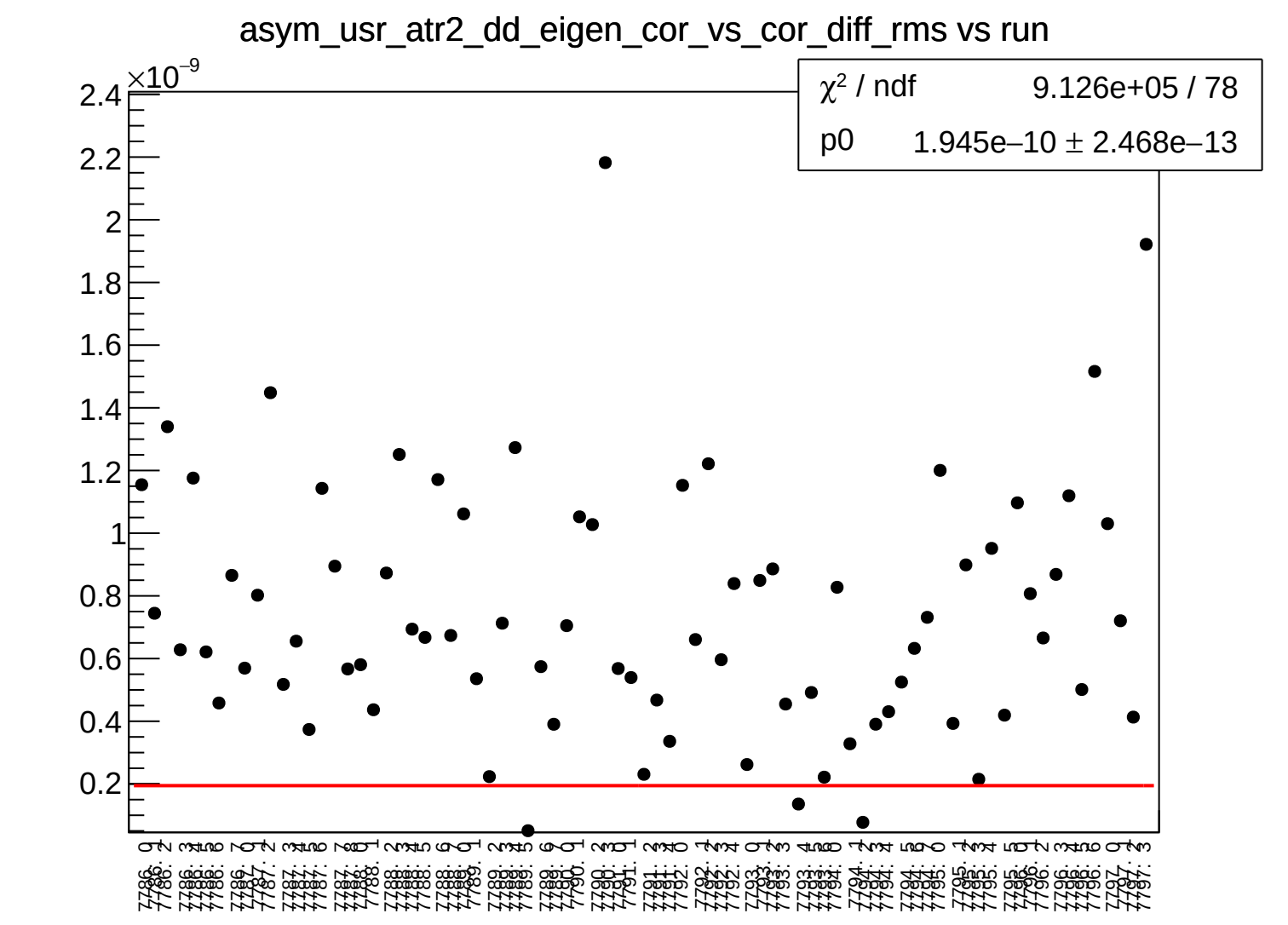

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.42 / 78
p0 −0.2296 ± 0.2329
pull
Entries 79
Mean −201.6
Std Dev 0
pull1D
Entries 79
Mean −0.008064
Std Dev 0.9508

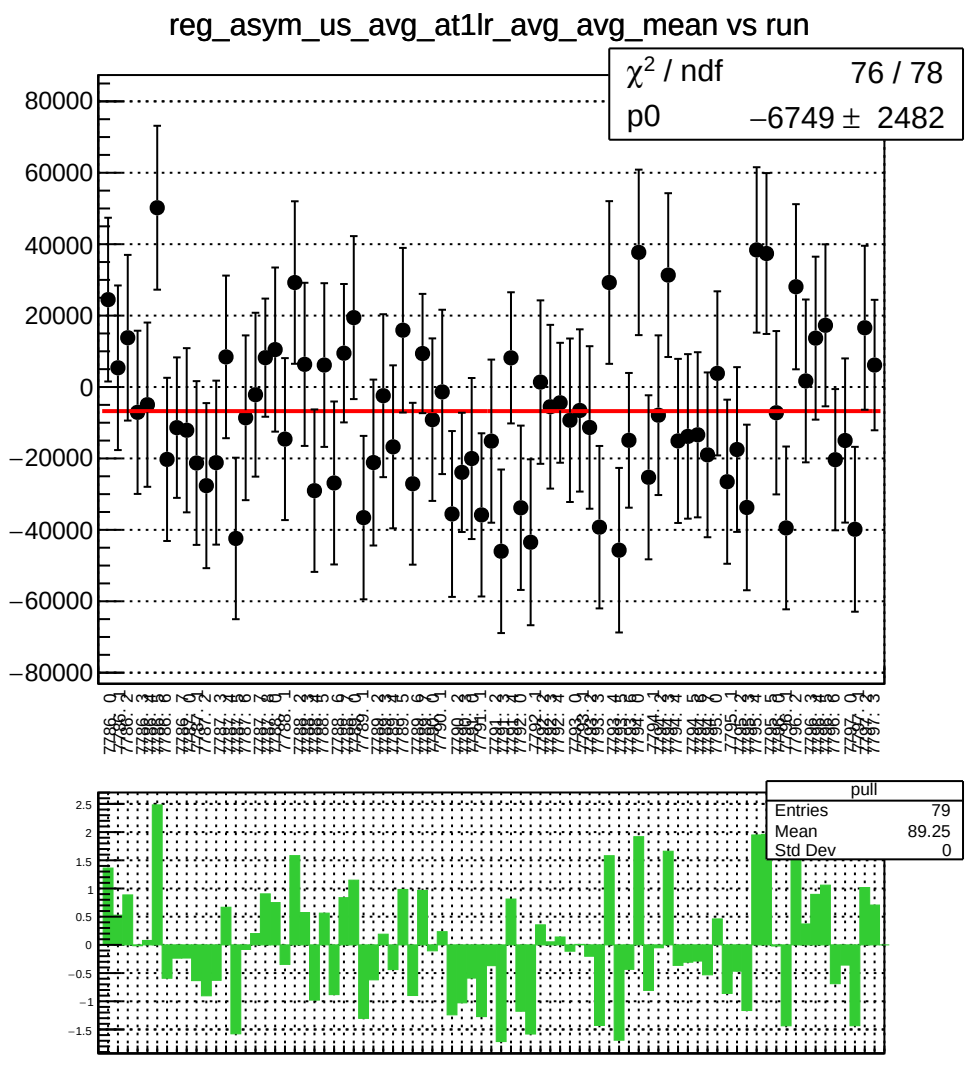

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.075e+04 / 78
p0 203.2 ± 0.1647
260
240
220
200
180
160

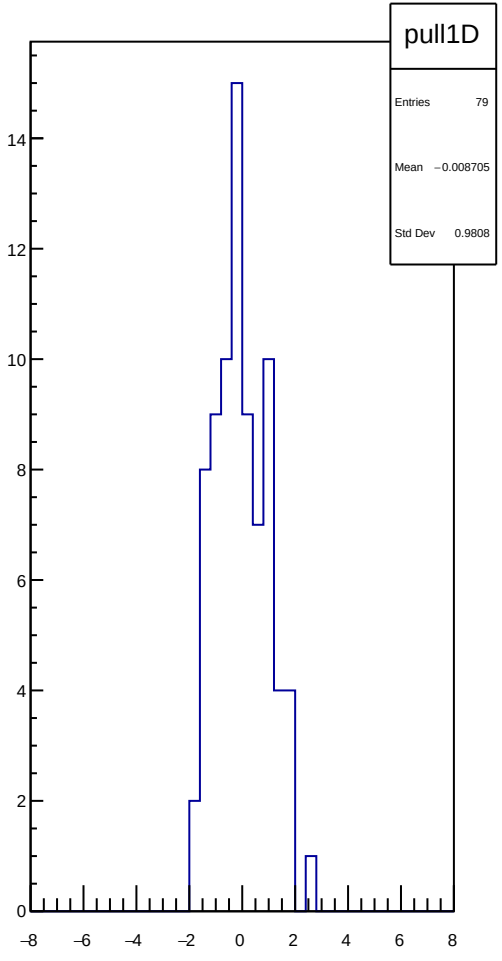

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.42 / 78
p0 −0.2296 ± 0.2329
pull
Entries 79
Mean −201.6
Std Dev 0
pull1D
Entries 79
Mean −0.008064
Std Dev 0.9508

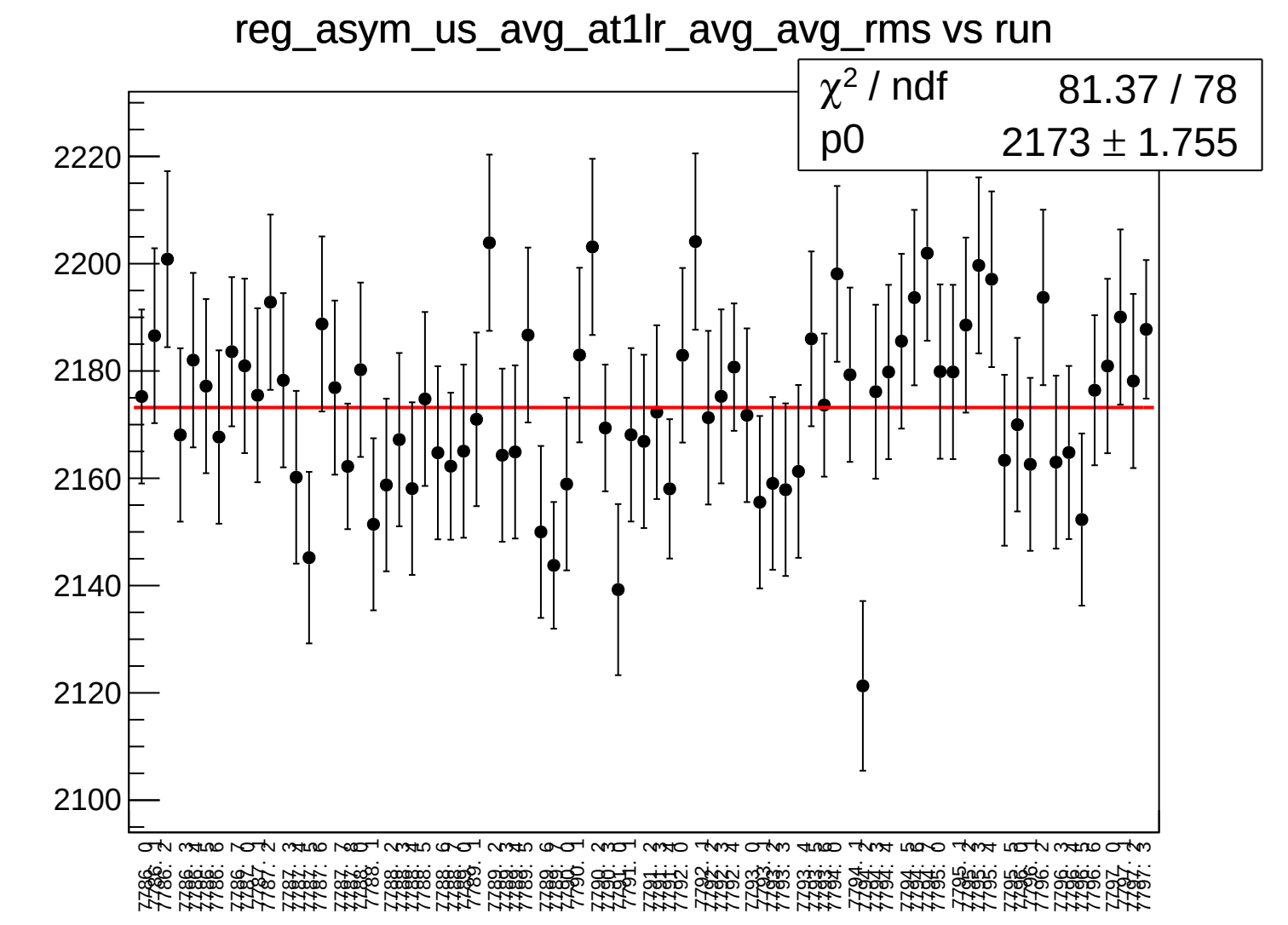

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.075e+04 / 78
p0 203.2 ± 0.1647
260
240
220
200
180
160

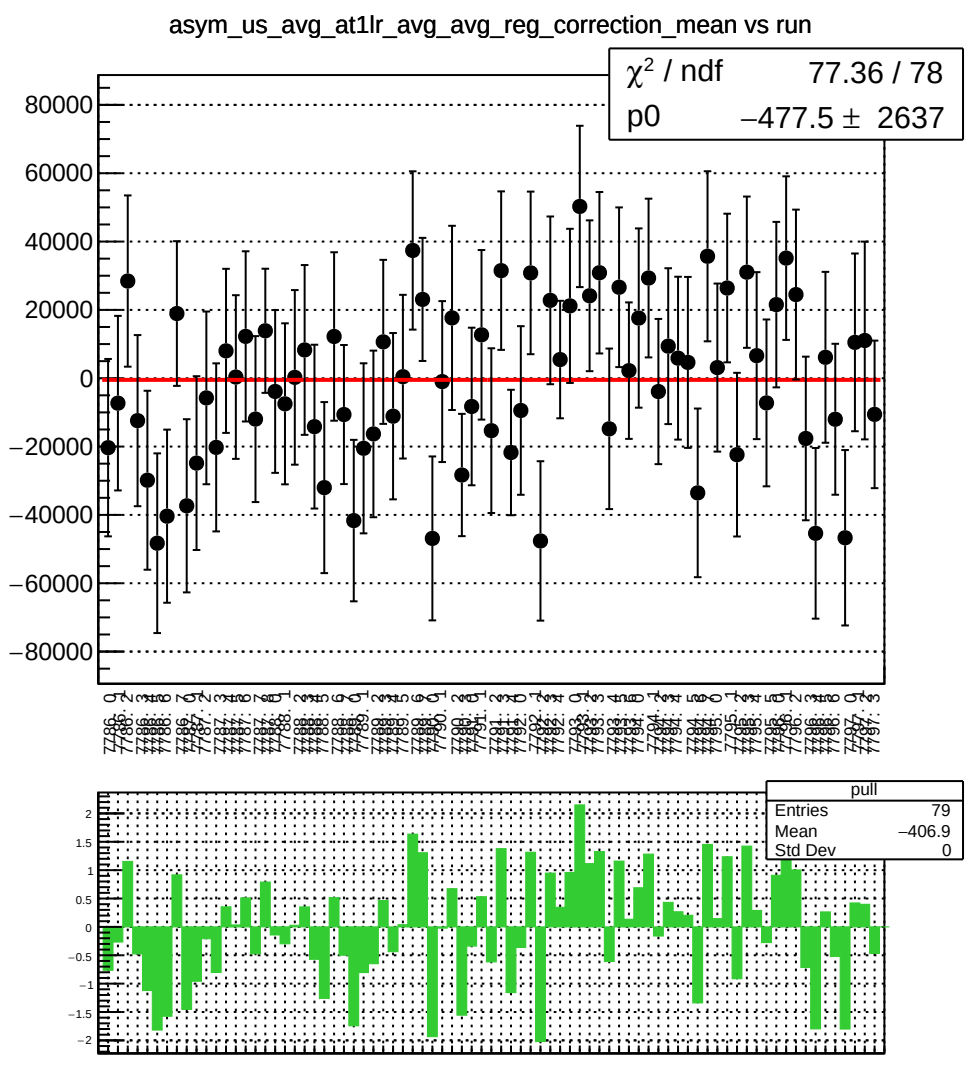

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.14 / 78
p0 4.667e−13 ± 3.491e−13
pull
Entries 79
Mean 2.463
Std Dev 0
pull1D
Entries 79
Mean −0.02155
Std Dev 1.001

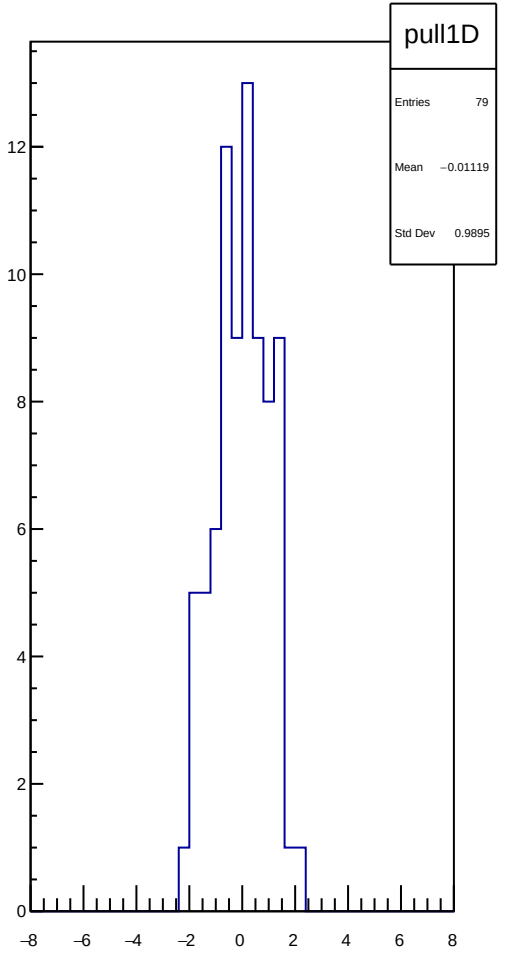

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.126e+05 / 78
p0 1.945e−10 ± 2.468e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

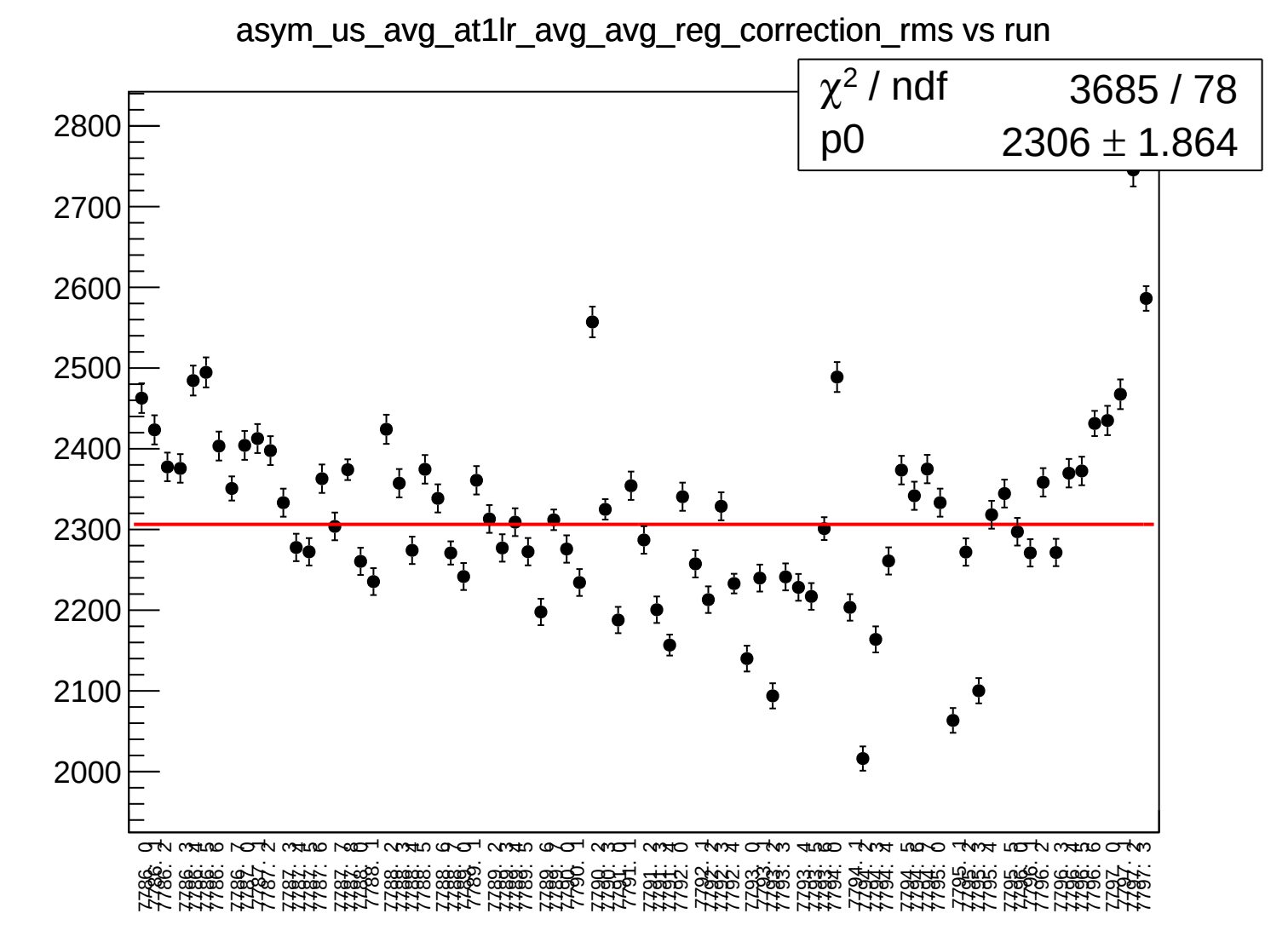

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76 / 78
p0 −6749 ± 2482
pull
Entries 79
Mean 89.25
Std Dev 0

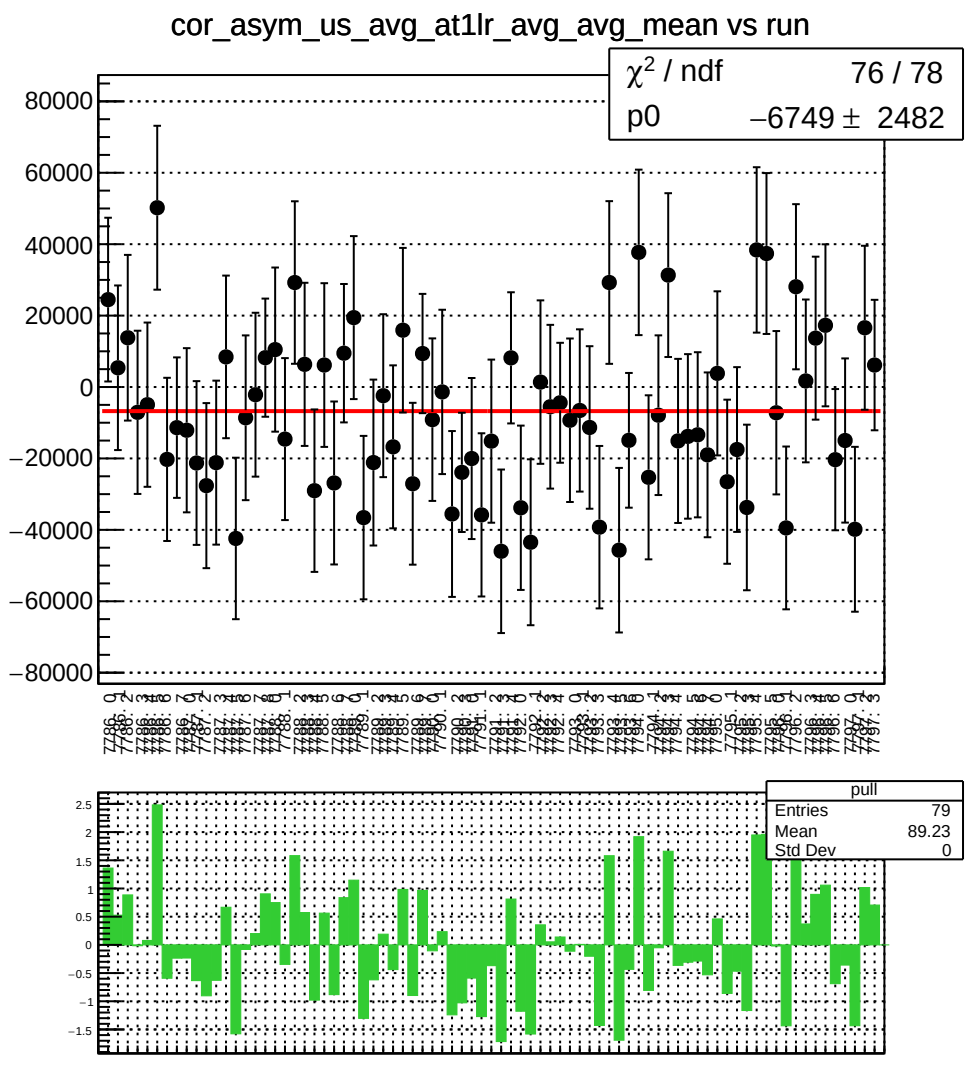

pull1D
Entries 79
Mean −0.008705
Std Dev 0.9808

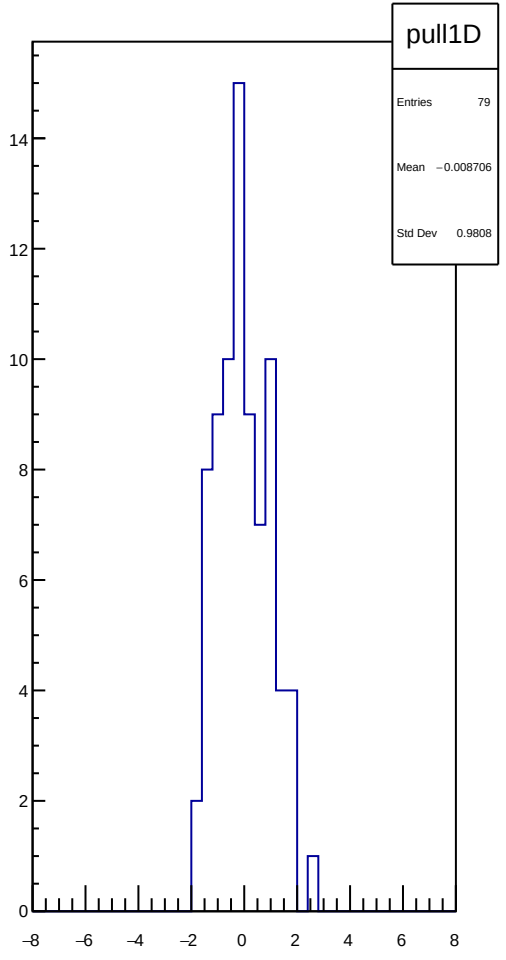

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 81.37 / 78
p0 2173 ± 1.755
2220
2200
2180
2160
2140
2120
2100

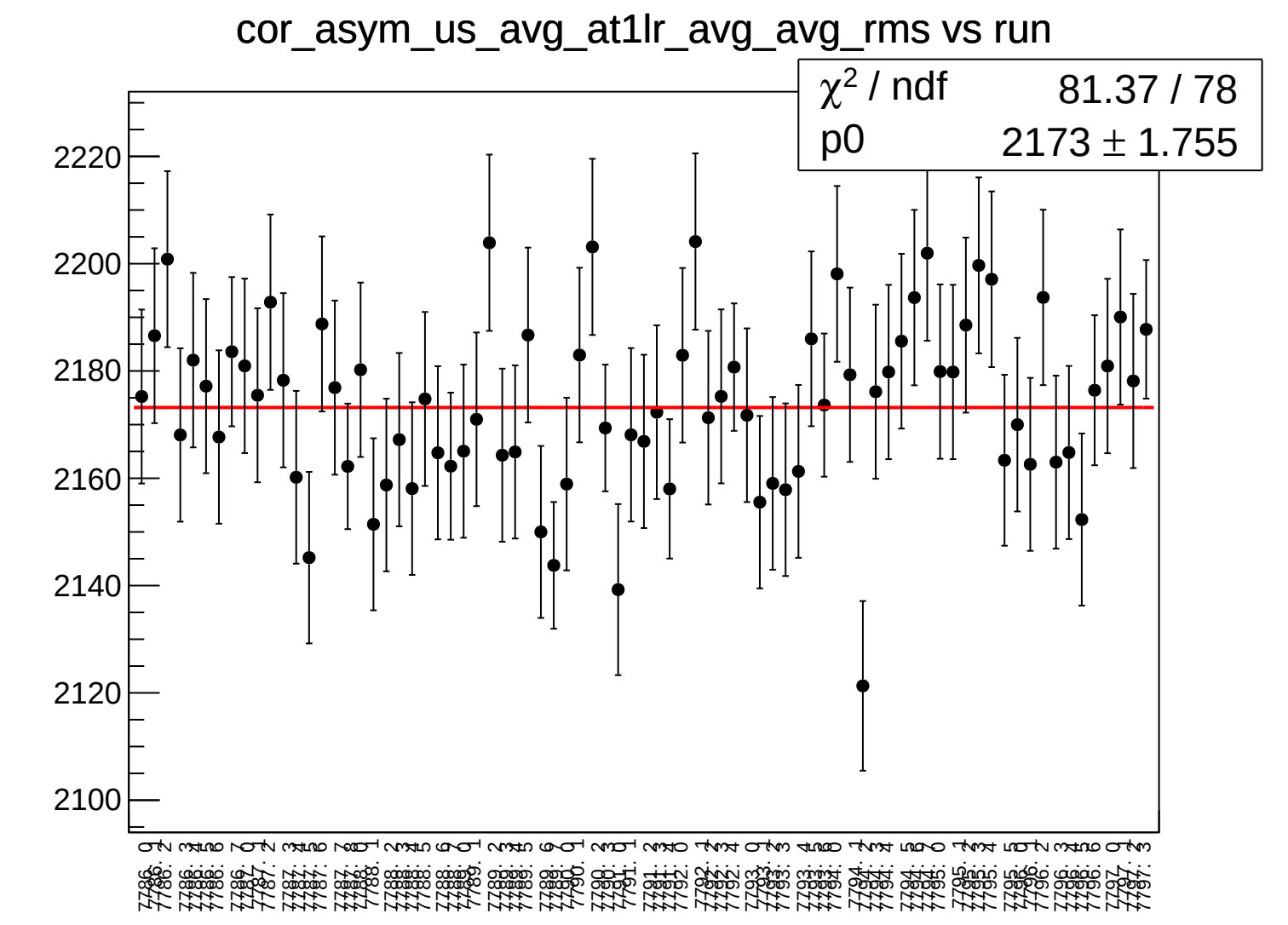

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 77.36 / 78
p0 −477.5 ± 2637
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean −406.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

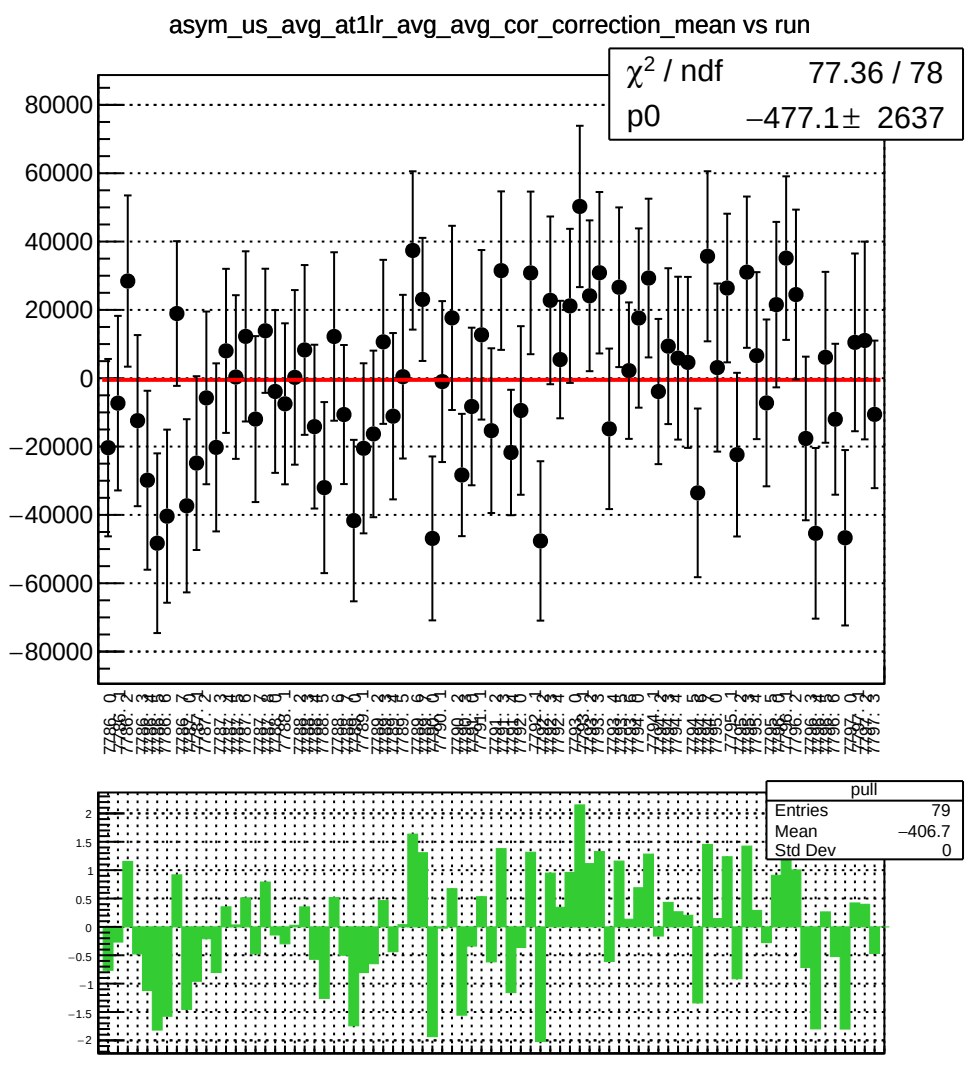

pull1D
Entries 79
Mean −0.01119
Std Dev 0.9895
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

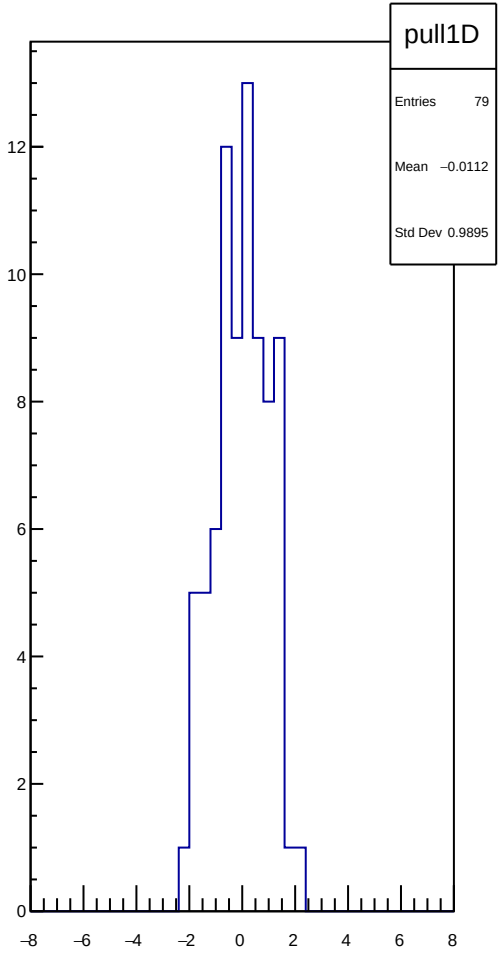

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3685 / 78
p0 2306 ± 1.864
2800
2700
2600
2500
2400
2300
2200
2100
2000

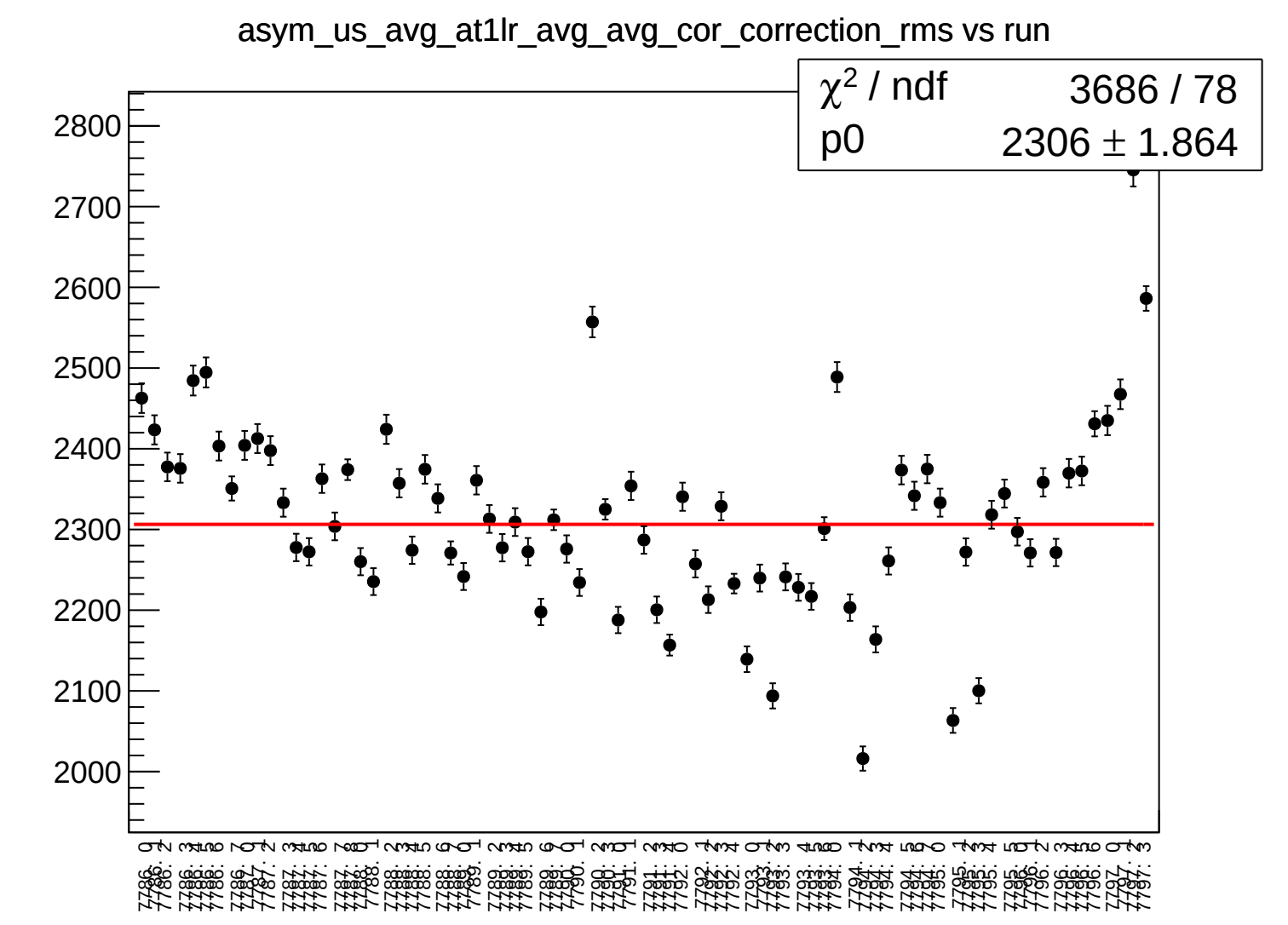

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76 / 78
p0 −6749 ± 2482
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean 89.23
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

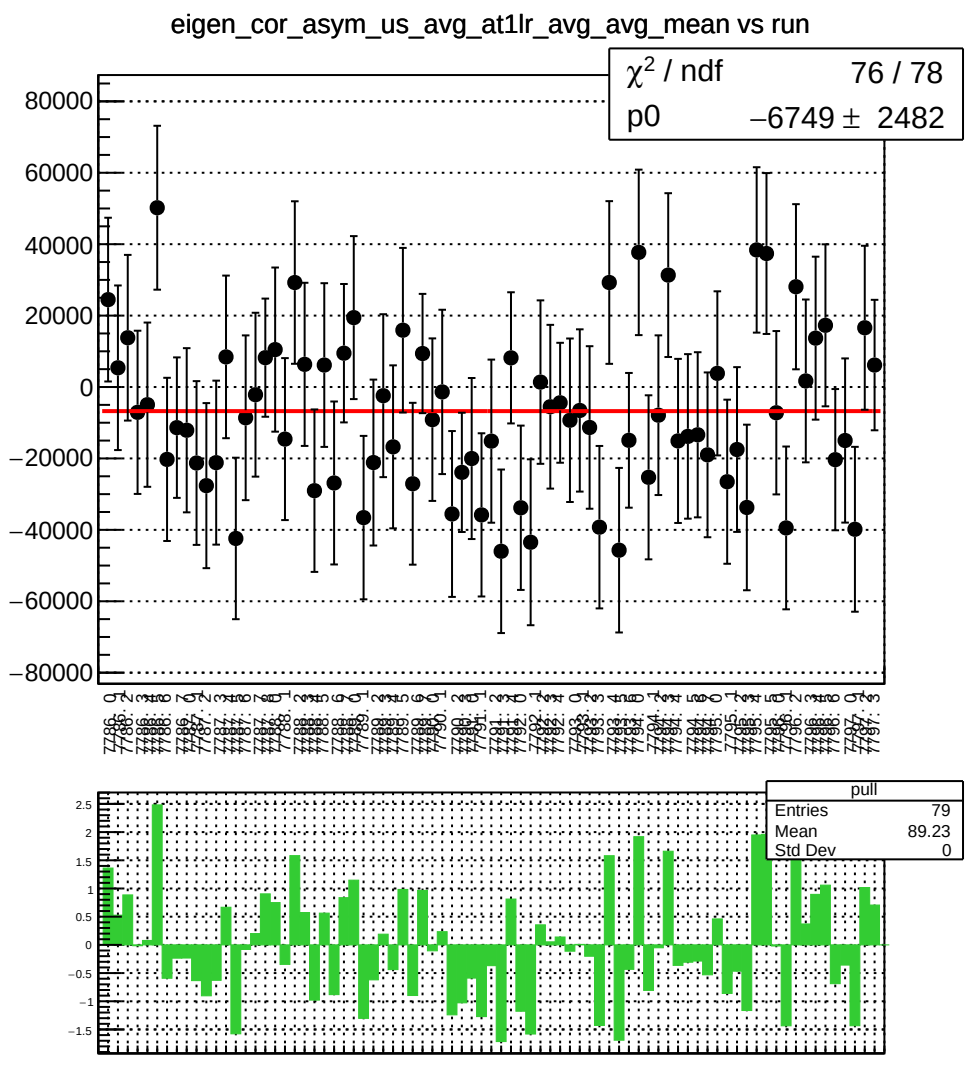

pull1D
Entries 79
Mean −0.008706
Std Dev 0.9808
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

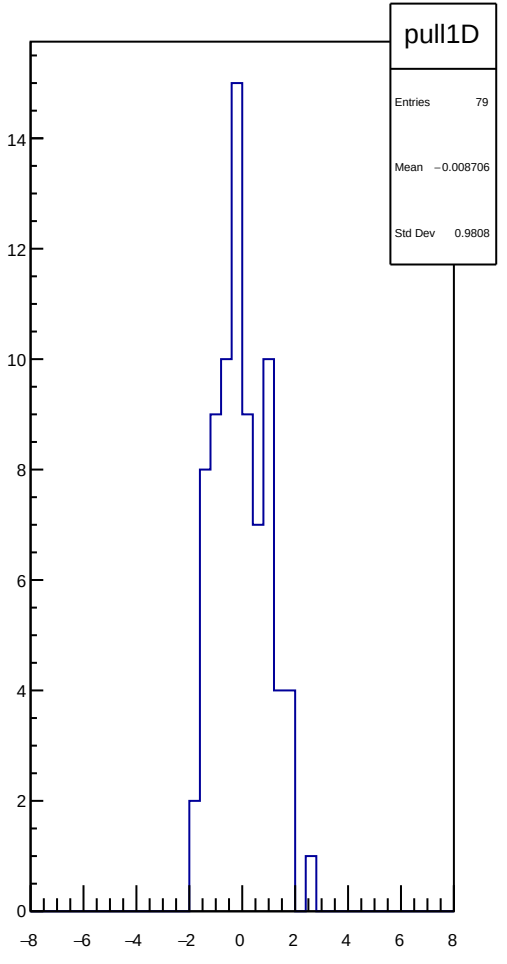

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 81.37 / 78
p0 2173 ± 1.755
2220
2200
2180
2160
2140
2120
2100

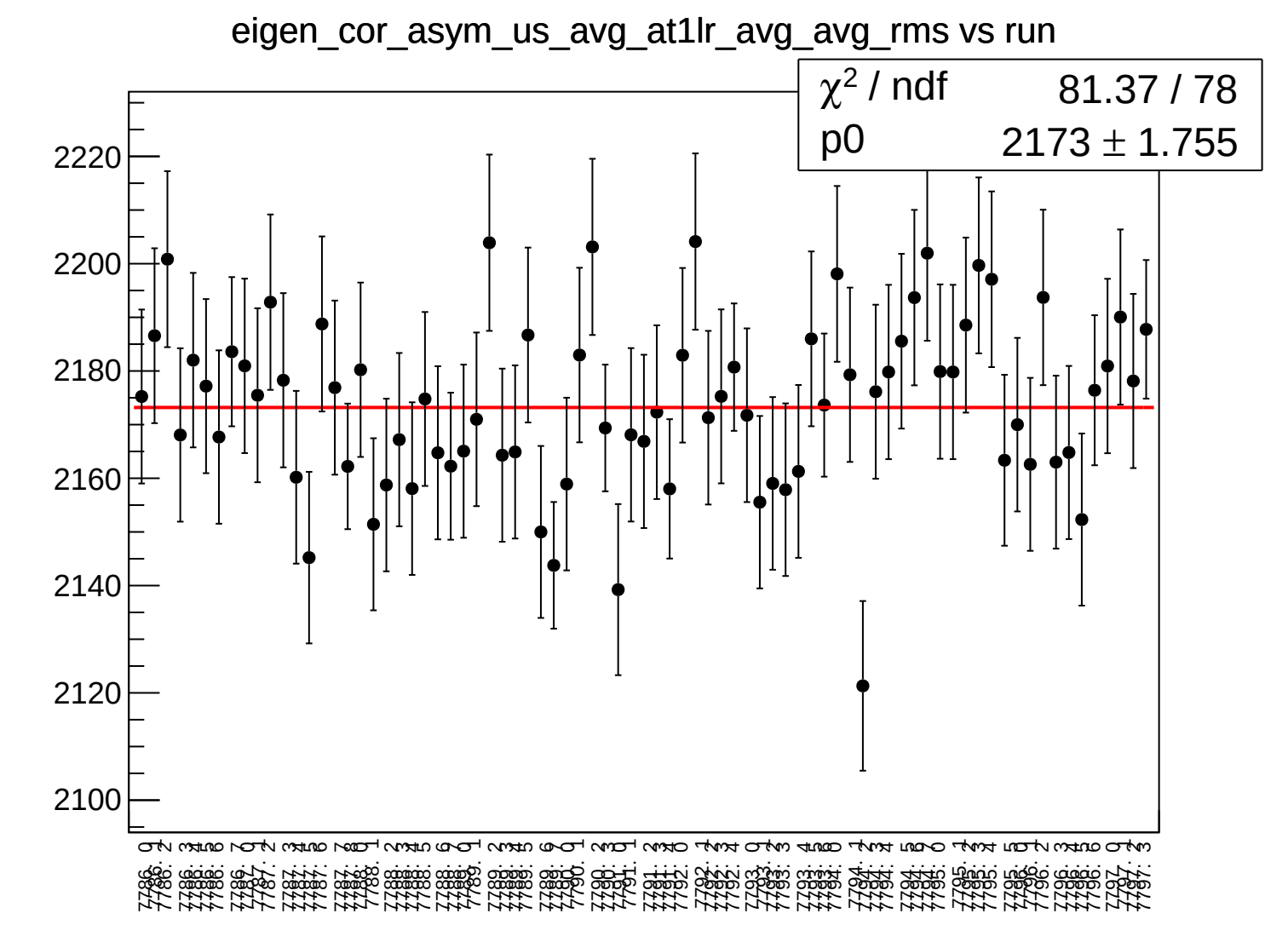

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 77.36 / 78
p0 −477.1± 2637
pull
Entries 79
Mean −406.7
Std Dev 0

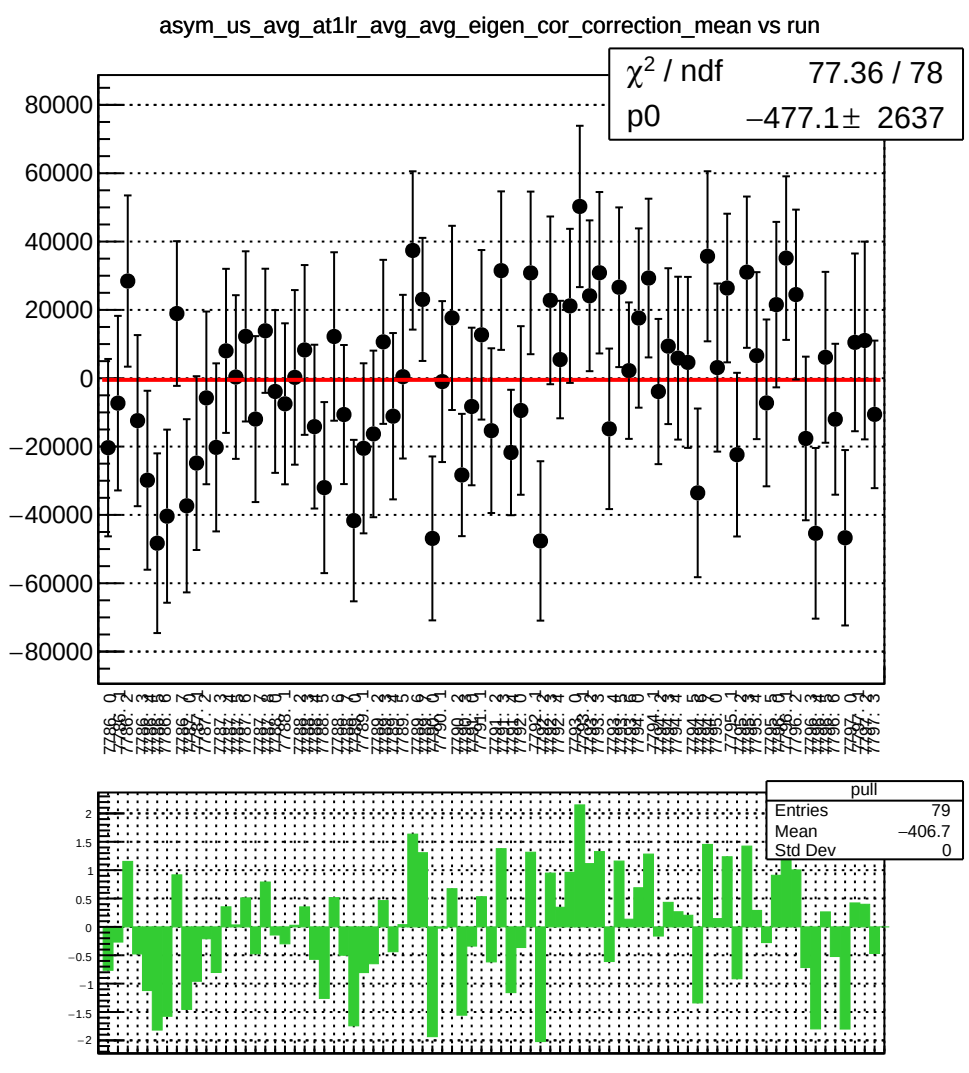

pull1D
Entries 79
Mean −0.0112
Std Dev 0.9895

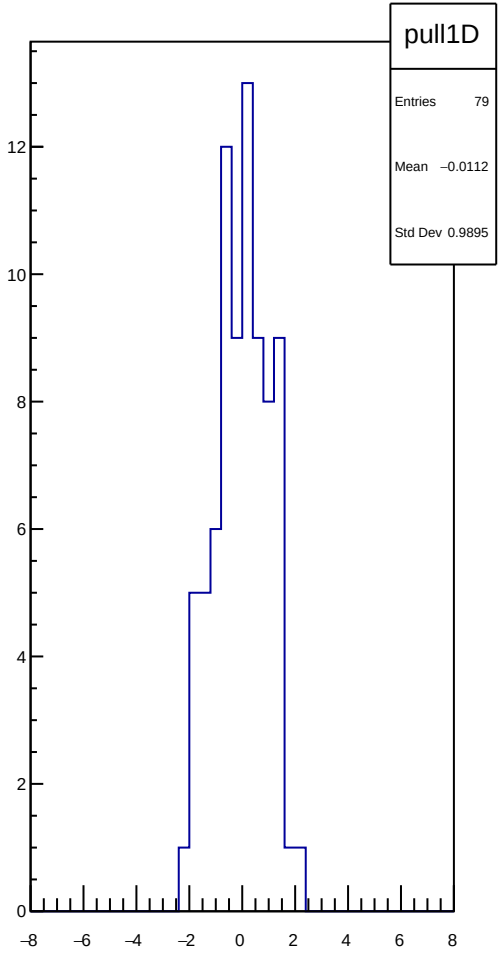

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3686 / 78
p0 2306 ± 1.864
2800
2700
2600
2500
2400
2300
2200
2100
2000

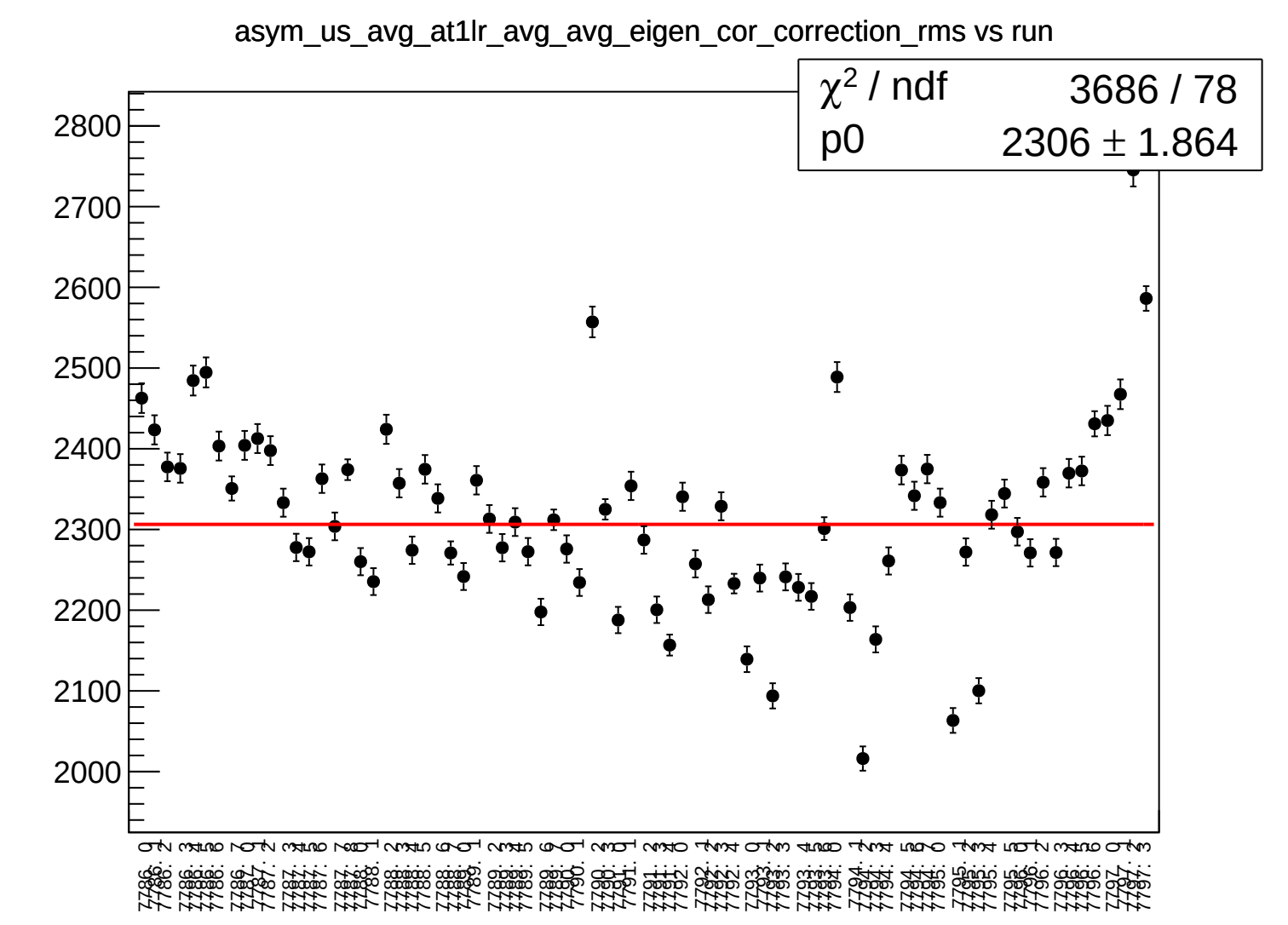

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76 / 78
p0 −6749 ± 2482
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean 89.23
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

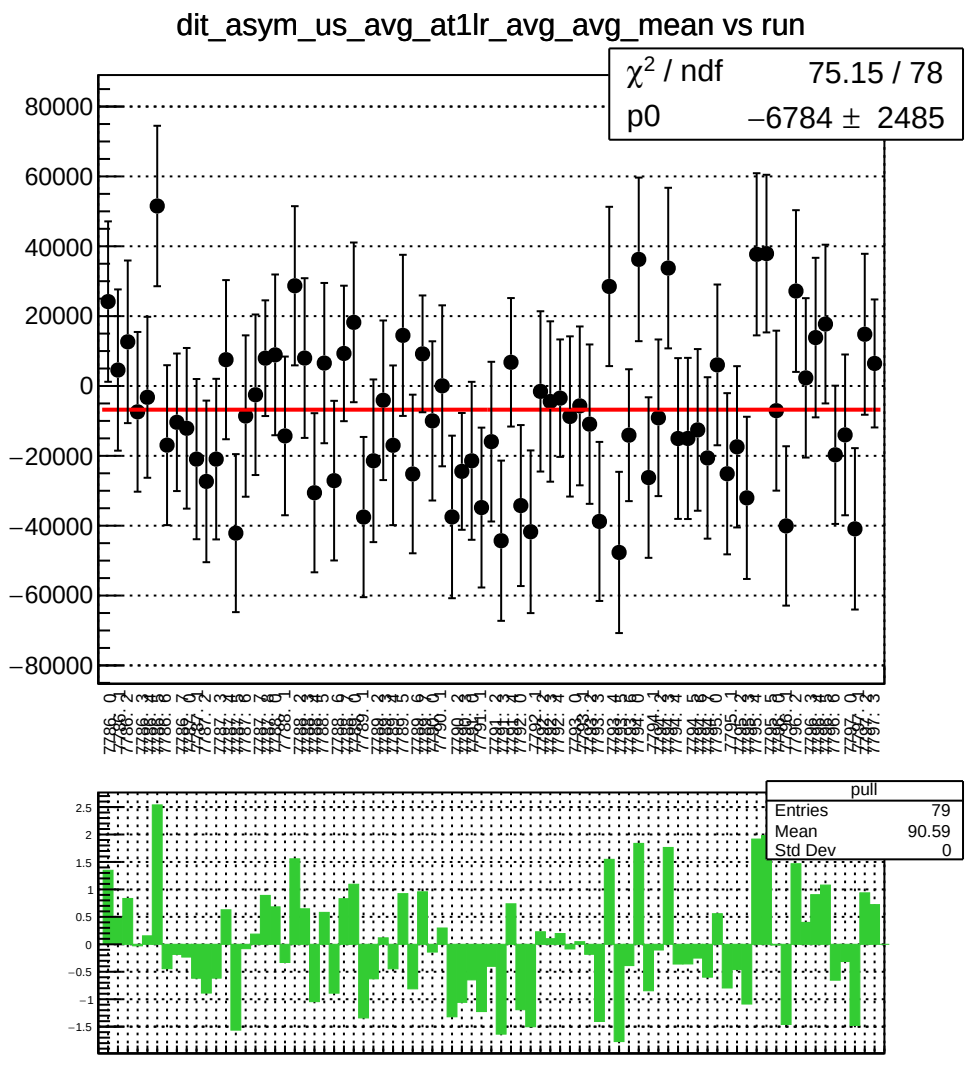

pull1D
Entries 79
Mean −0.008706
Std Dev 0.9808
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

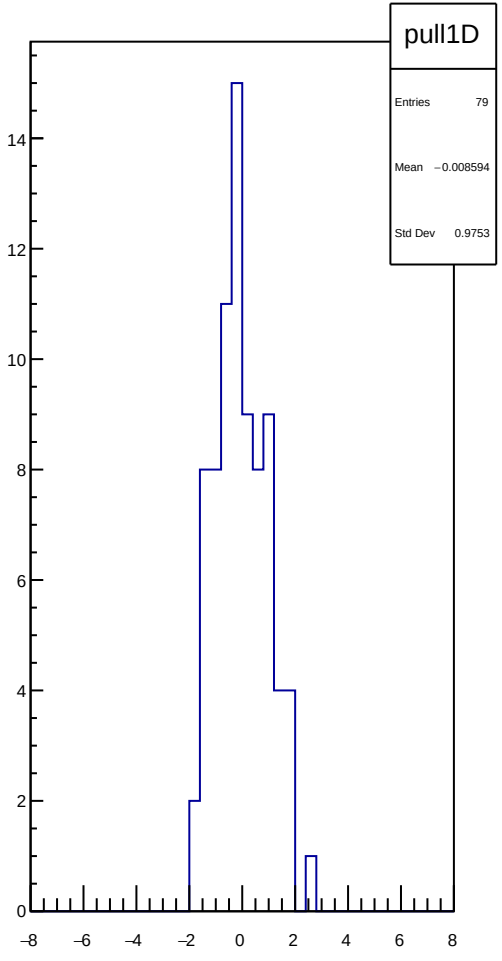

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 81.37 / 78
p0 2173 ± 1.755
2220
2200
2180
2160
2140
2120
2100

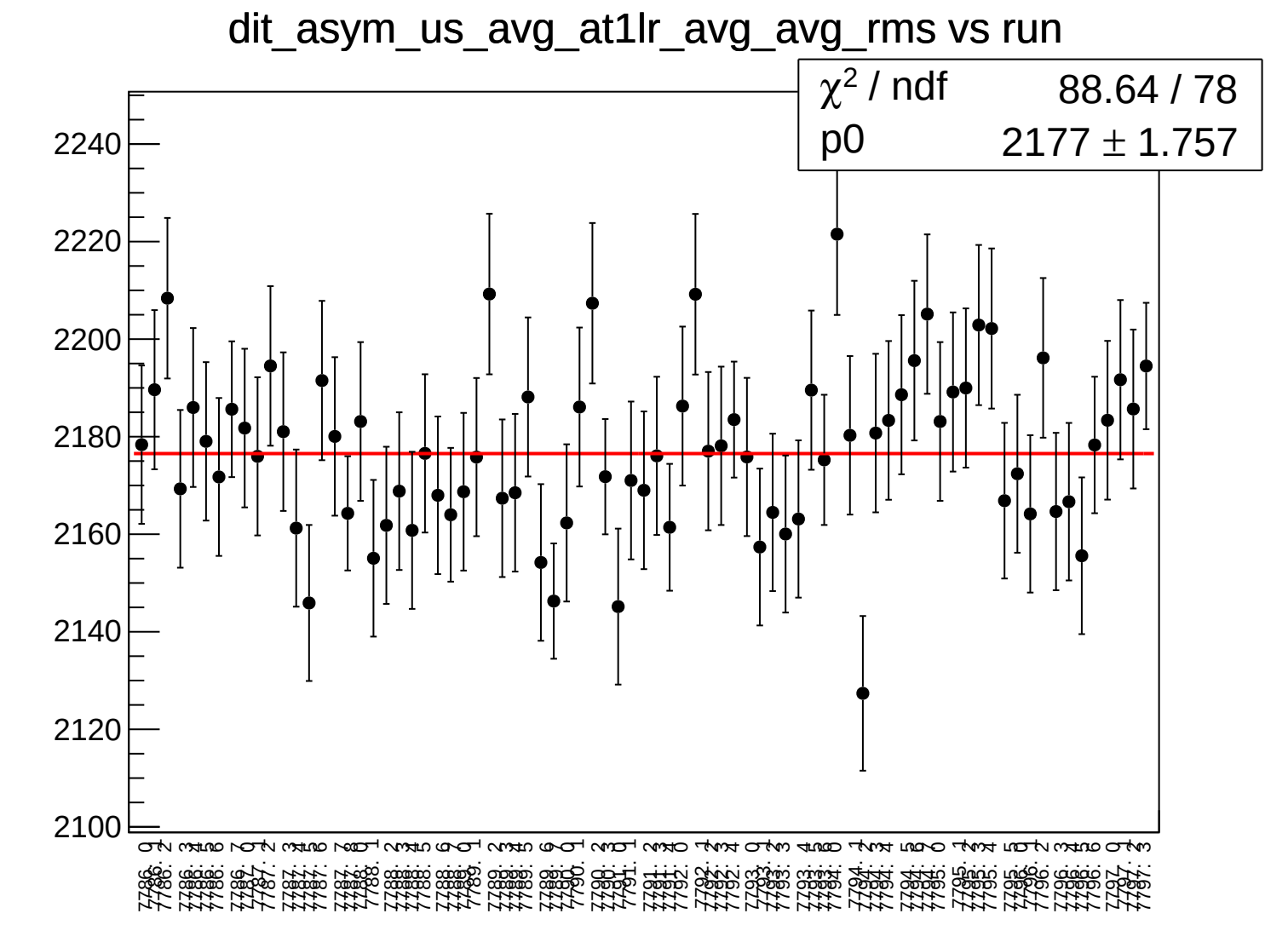

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.36 / 78
p0 −477.1± 2637
pull
Entries 79
Mean −406.7
Std Dev 0

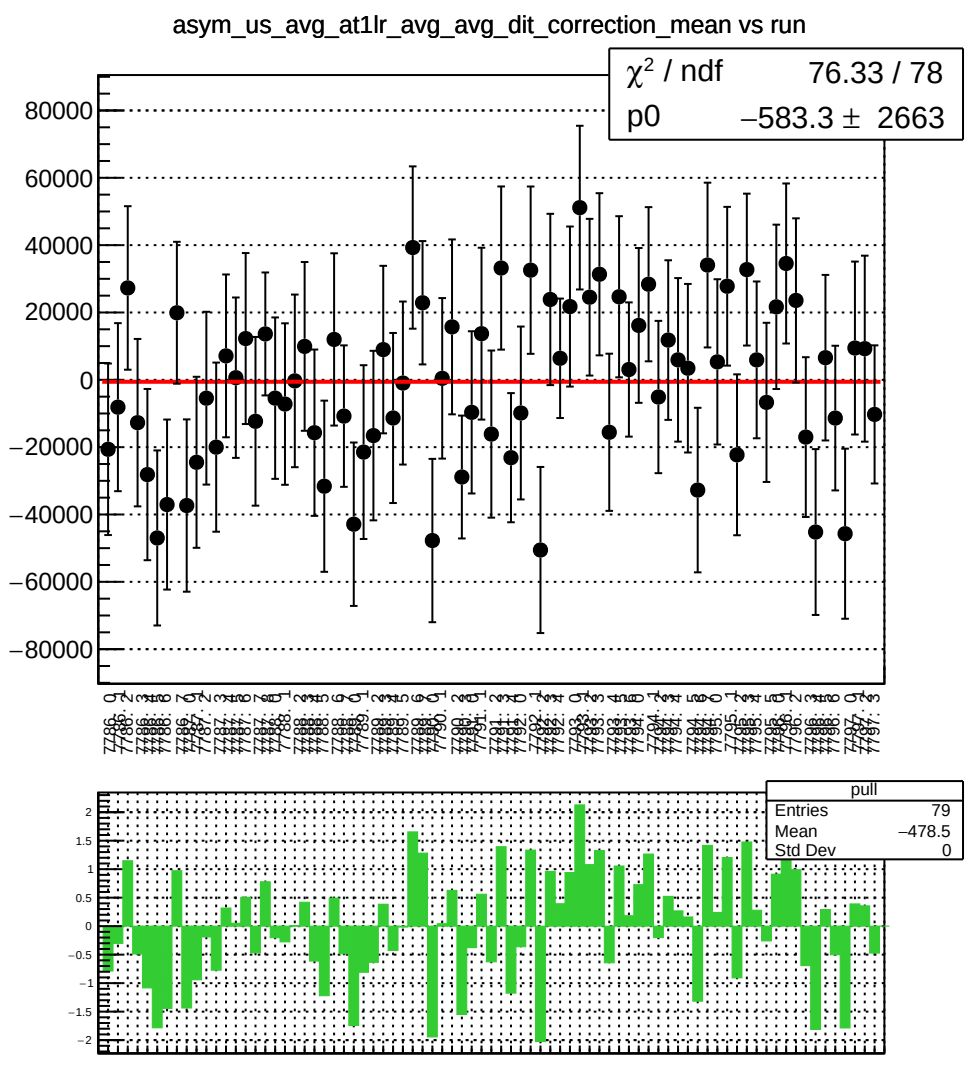

pull1D
Entries 79
Mean −0.0112
Std Dev 0.9895

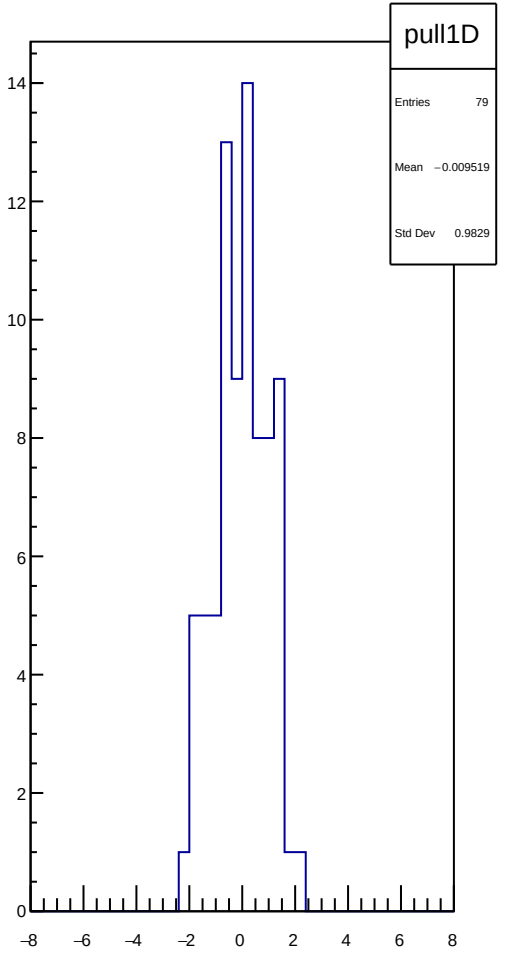

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3686 / 78
p0 2306 ± 1.864
2800
2700
2600
2500
2400
2300
2200
2100
2000

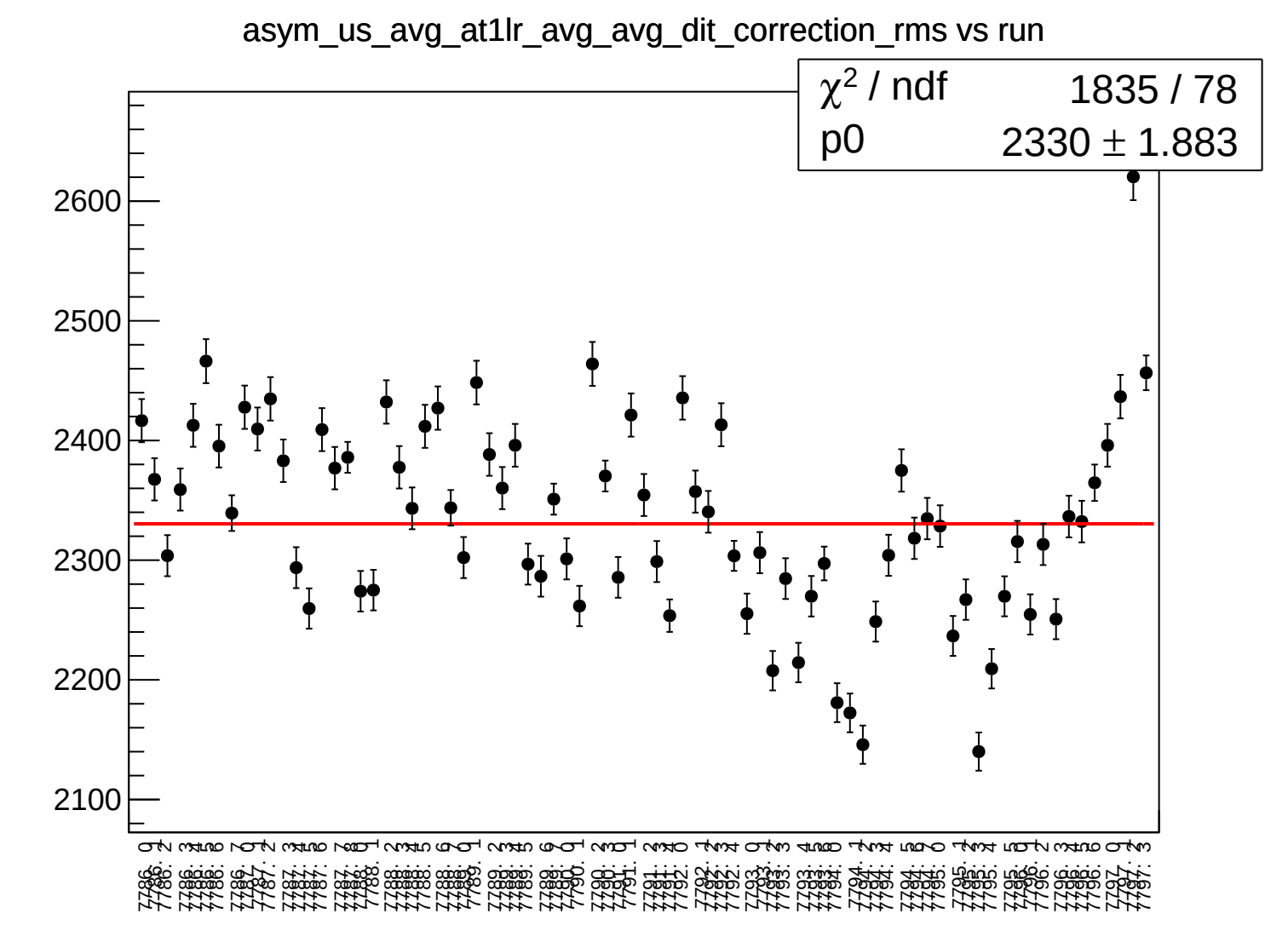

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 75.15 / 78
p0 −6784 ± 2485
pull
Entries 79
Mean 90.59
Std Dev 0

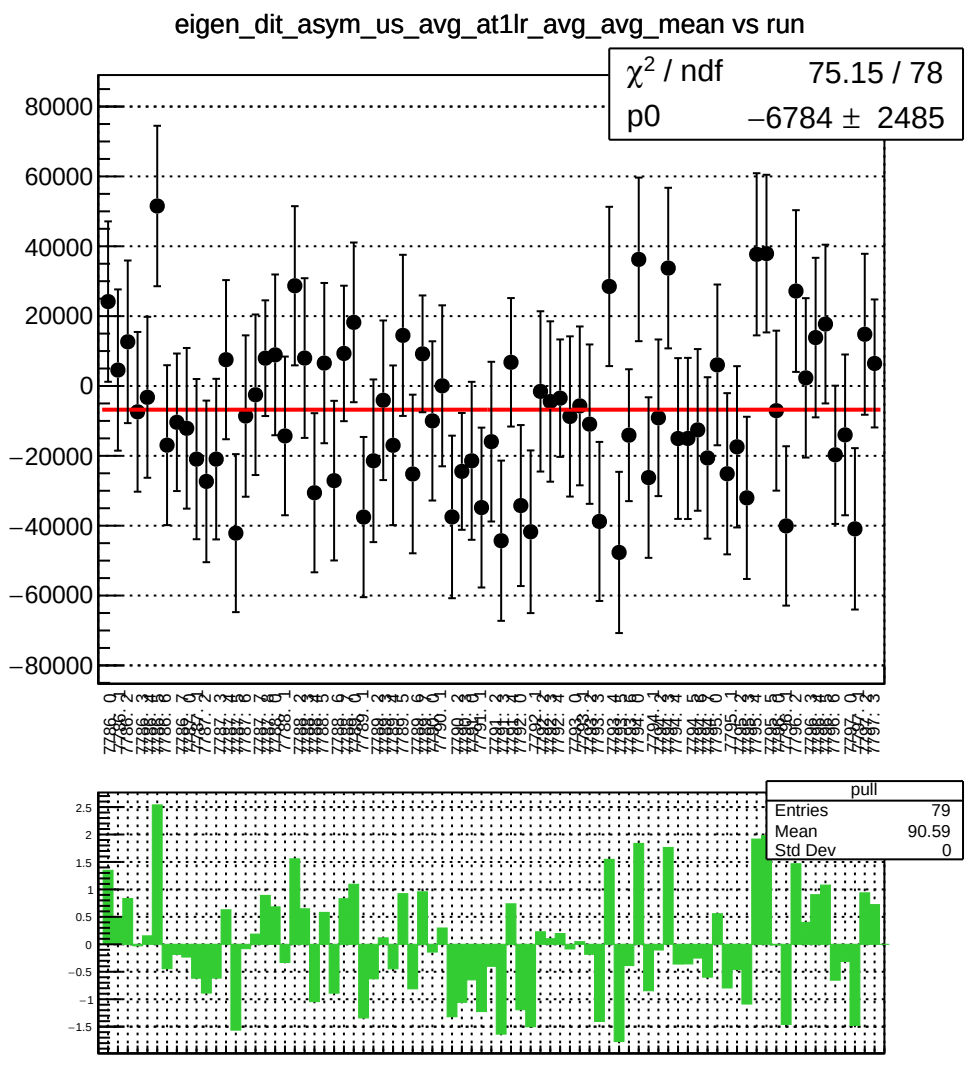

pull1D
Entries 79
Mean −0.008594
Std Dev 0.9753

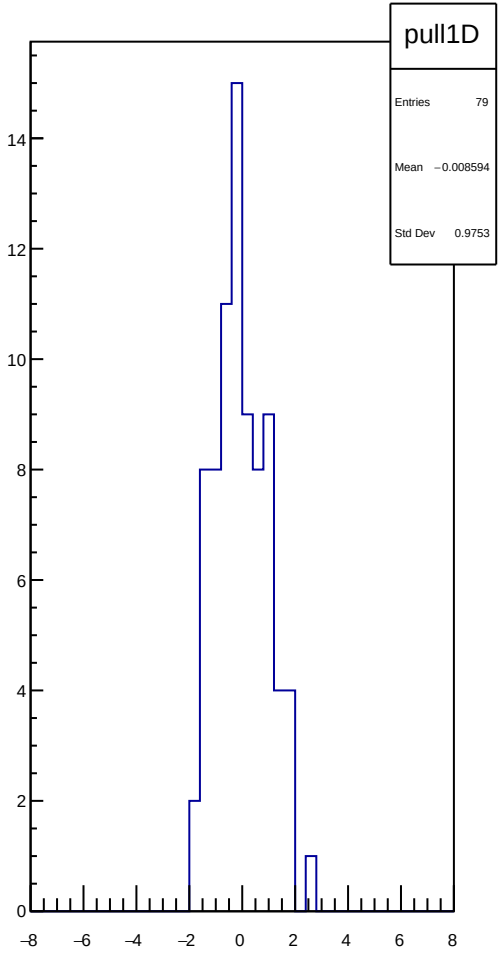

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 88.64 / 78
p0 2177 ± 1.757
2240
2220
2200
2180
2160
2140
2120
2100

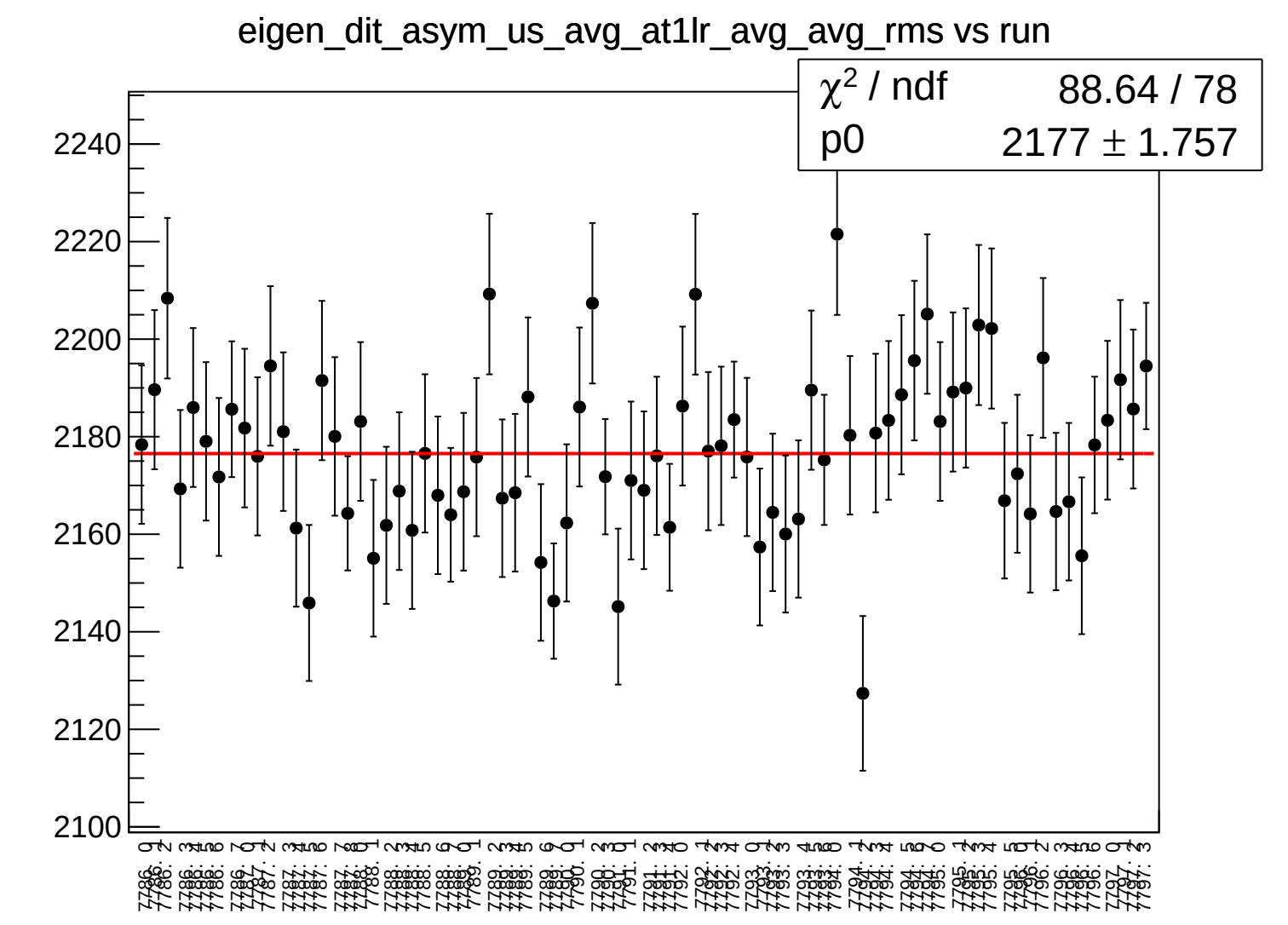

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 76.33 / 78
p0 −583.3 ± 2663
pull
Entries 79
Mean −478.5
Std Dev 0

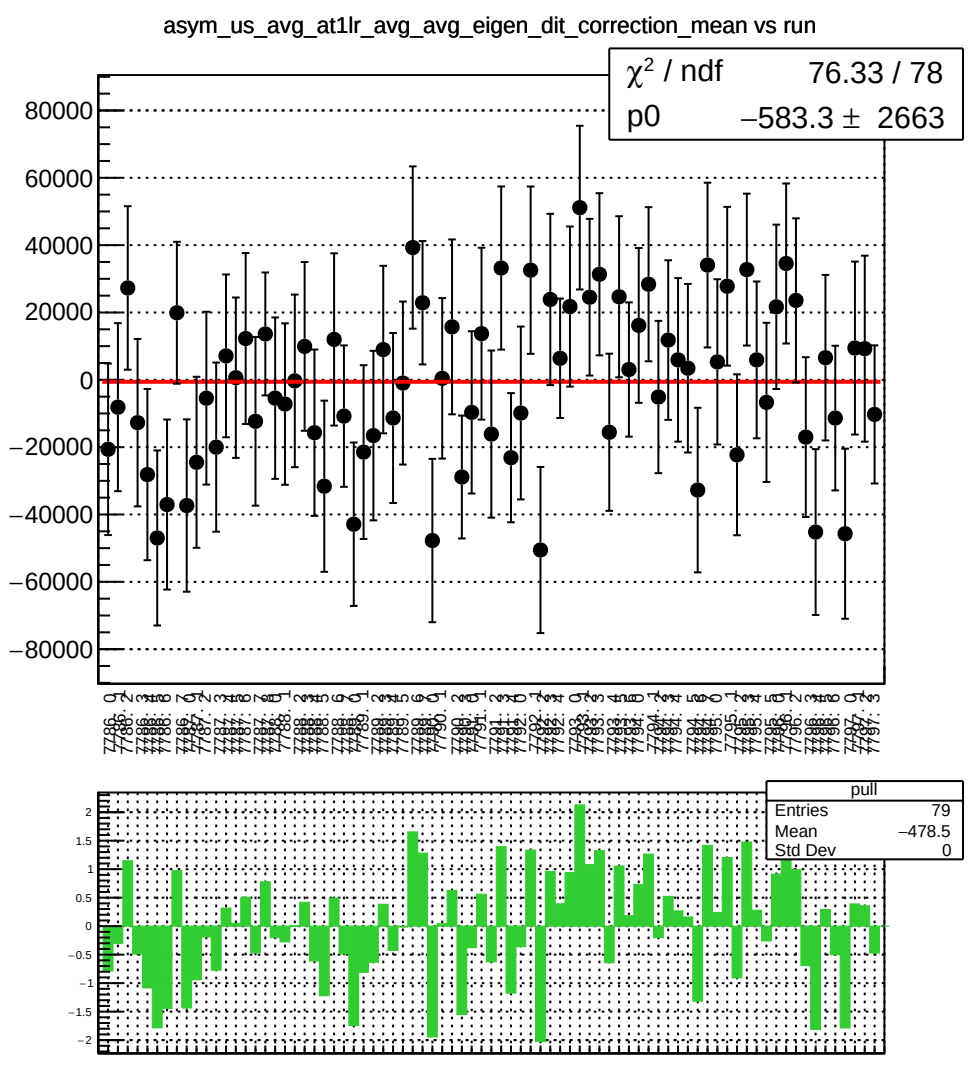

pull1D
Entries 79
Mean −0.009519
Std Dev 0.9829

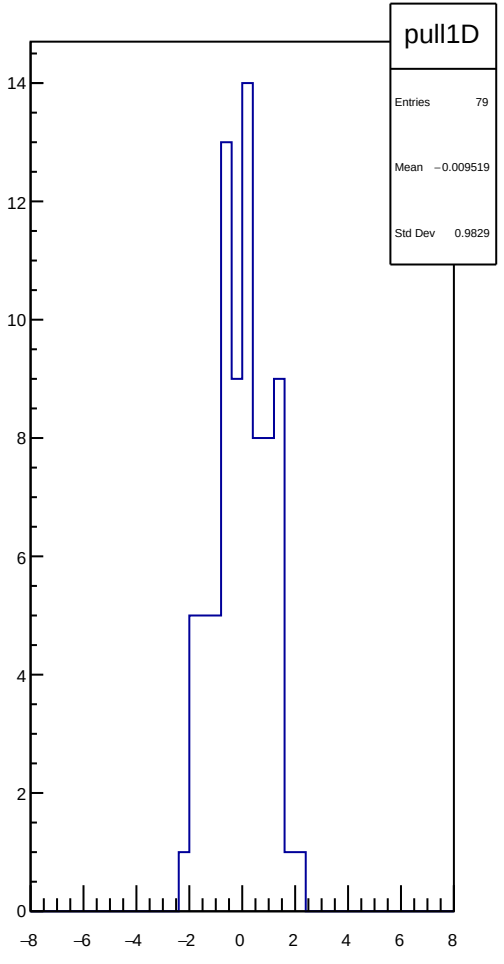

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1835 / 78
p0 2330 ± 1.883
2600
2500
2400
2300
2200
2100

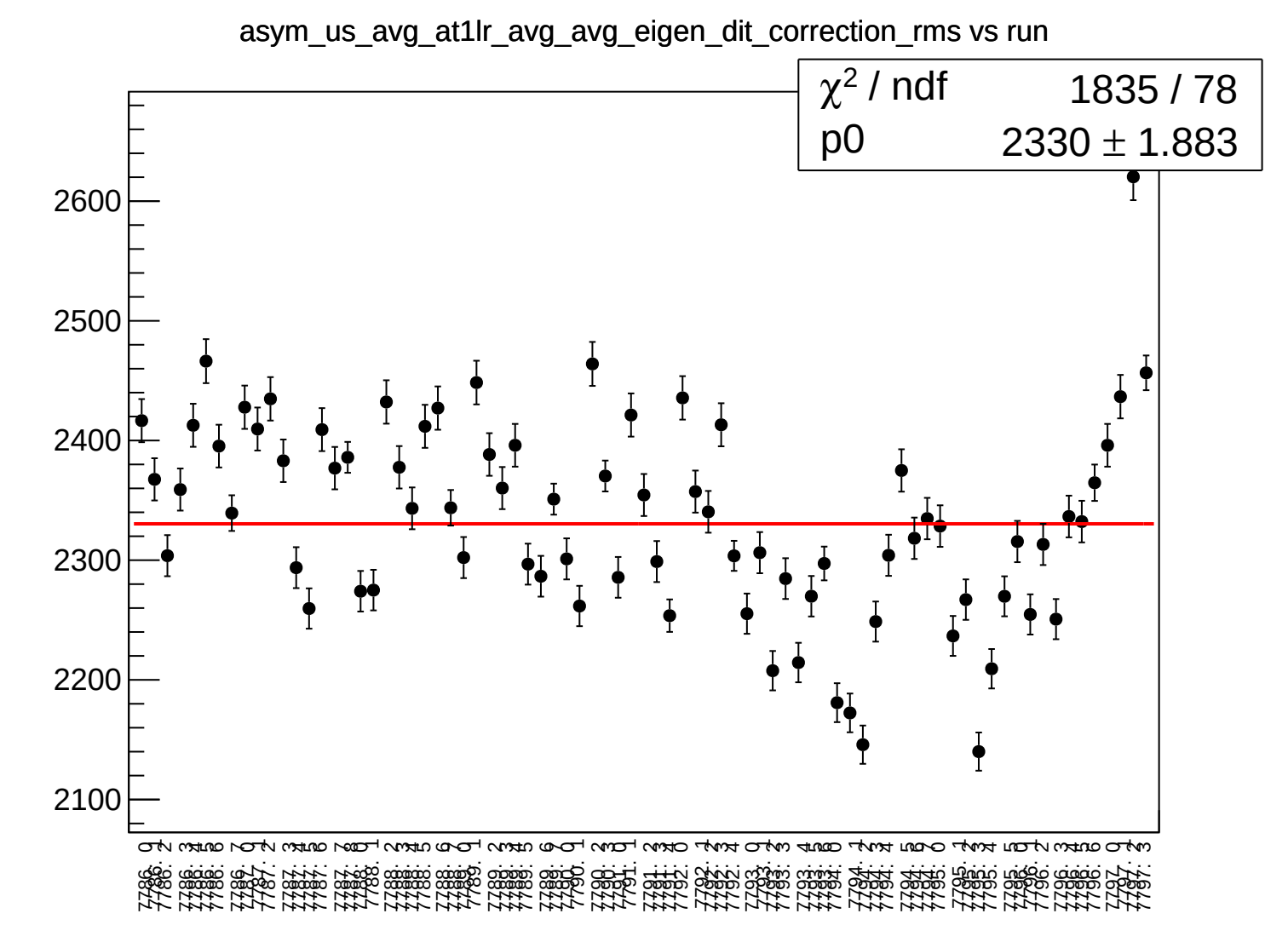

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 75.15 / 78
p0 −6784 ± 2485
pull
Entries 79
Mean 90.59
Std Dev 0

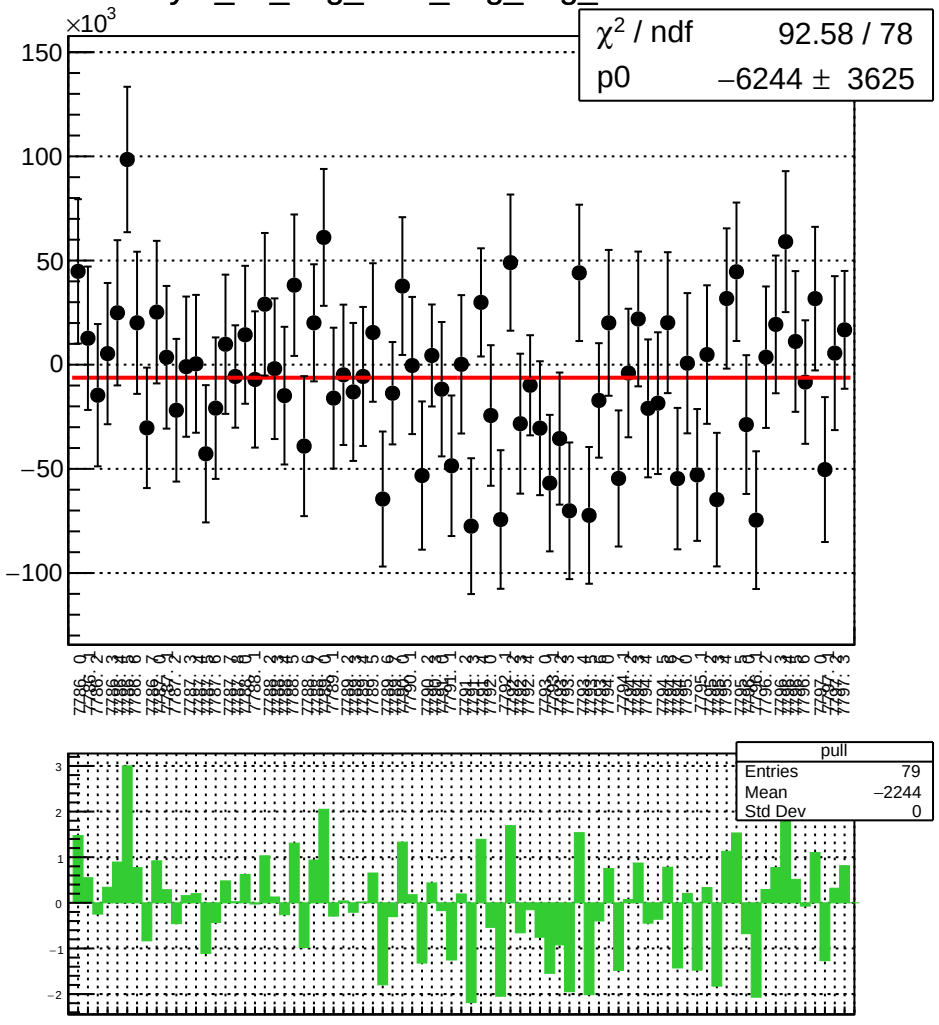

pull1D
Entries 79
Mean −0.008594
Std Dev 0.9753

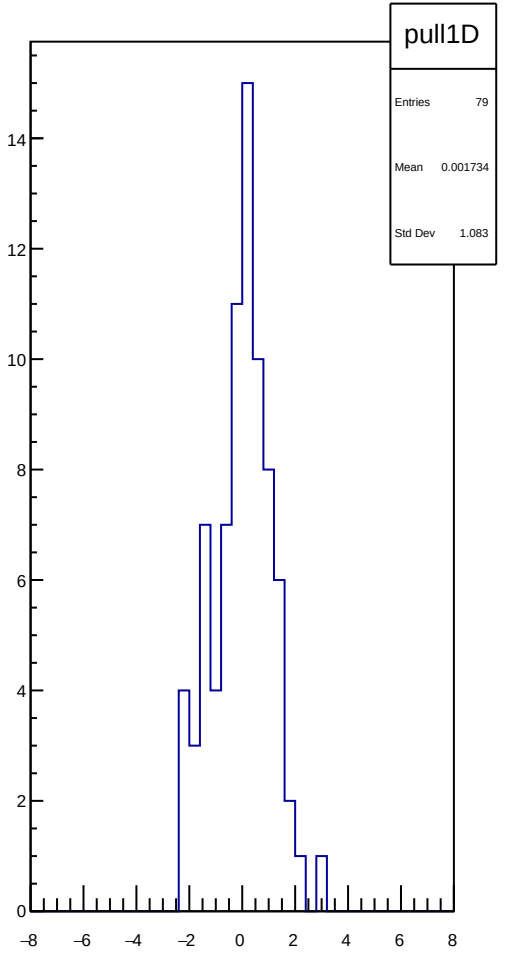

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 88.64 / 78
p0 2177 ± 1.757
2240
2220
2200
2180
2160
2140
2120
2100

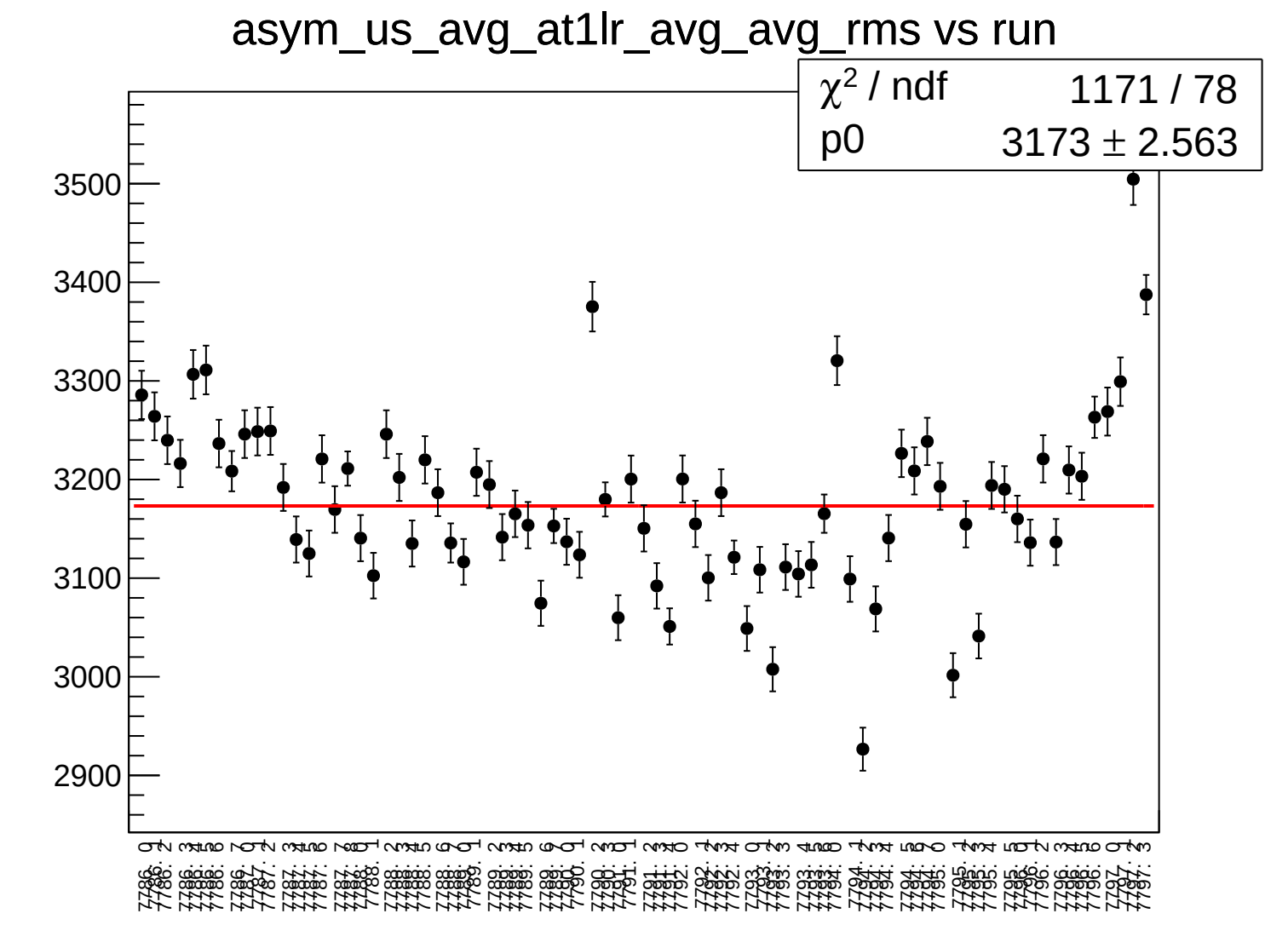

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.33 / 78
p0 −583.3 ± 2663
pull
Entries 79
Mean −478.5
Std Dev 0

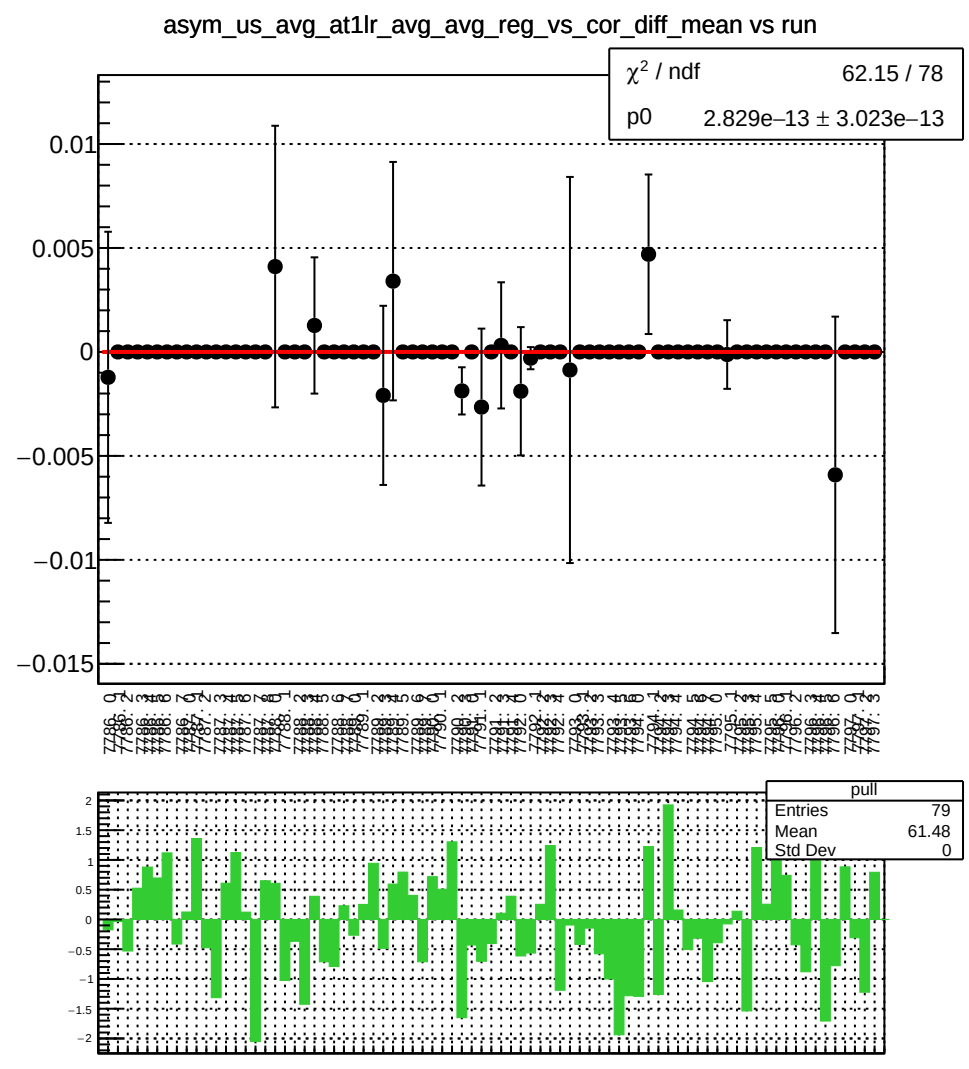

pull1D
Entries 79
Mean −0.009519
Std Dev 0.9829

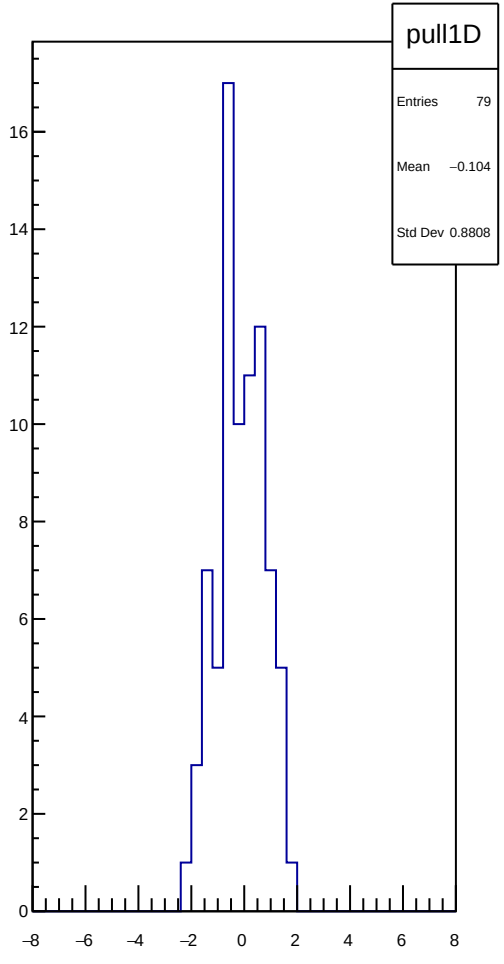

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1835 / 78
p0 2330 ± 1.883
2600
2500
2400
2300
2200
2100

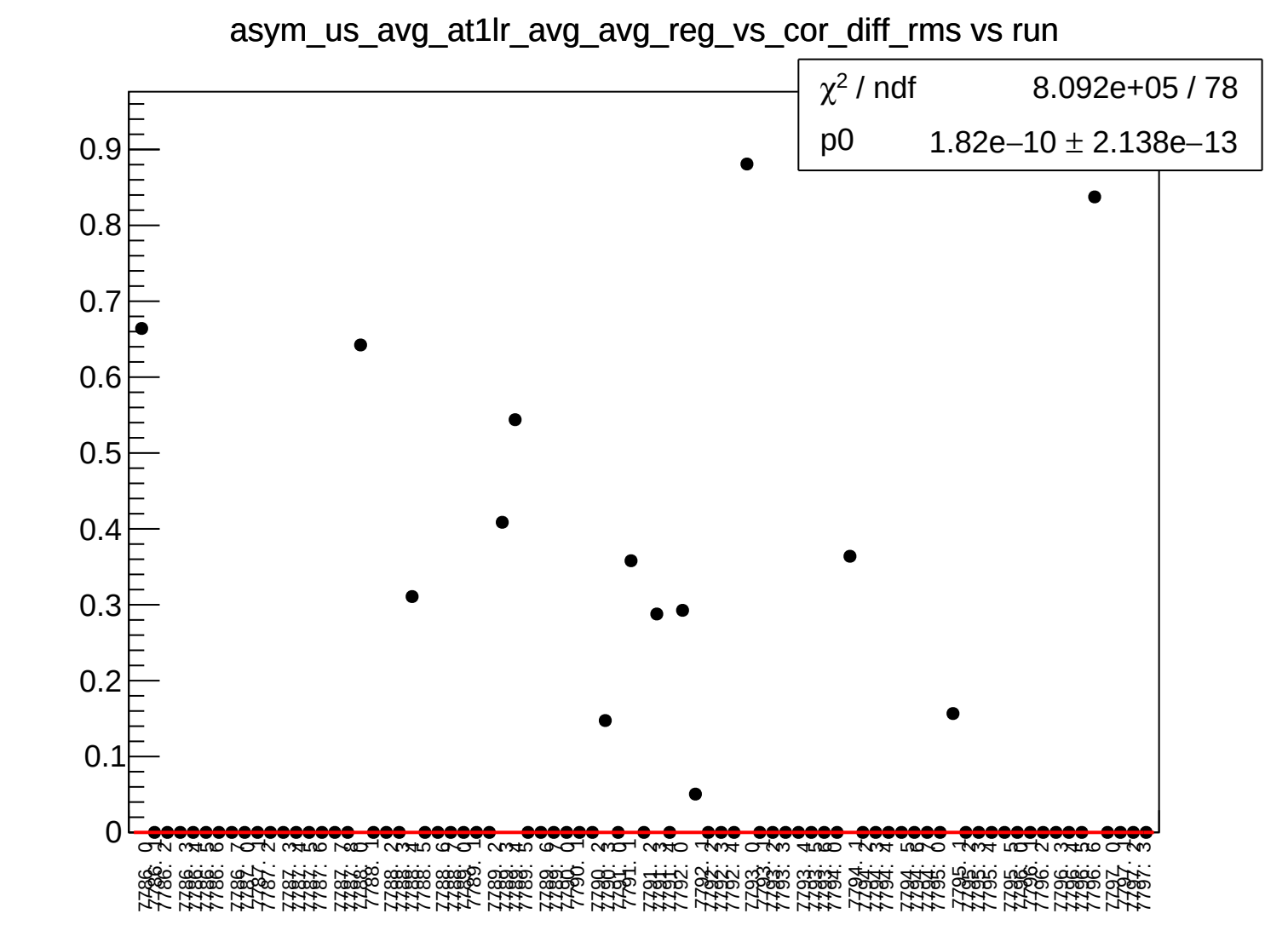

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 92.58 / 78
p0 −6244 ± 3625
150
100
50
0
−50
−100
pull
Entries 79
Mean −2244
Std Dev 0
3
2
1
0
−1
−2

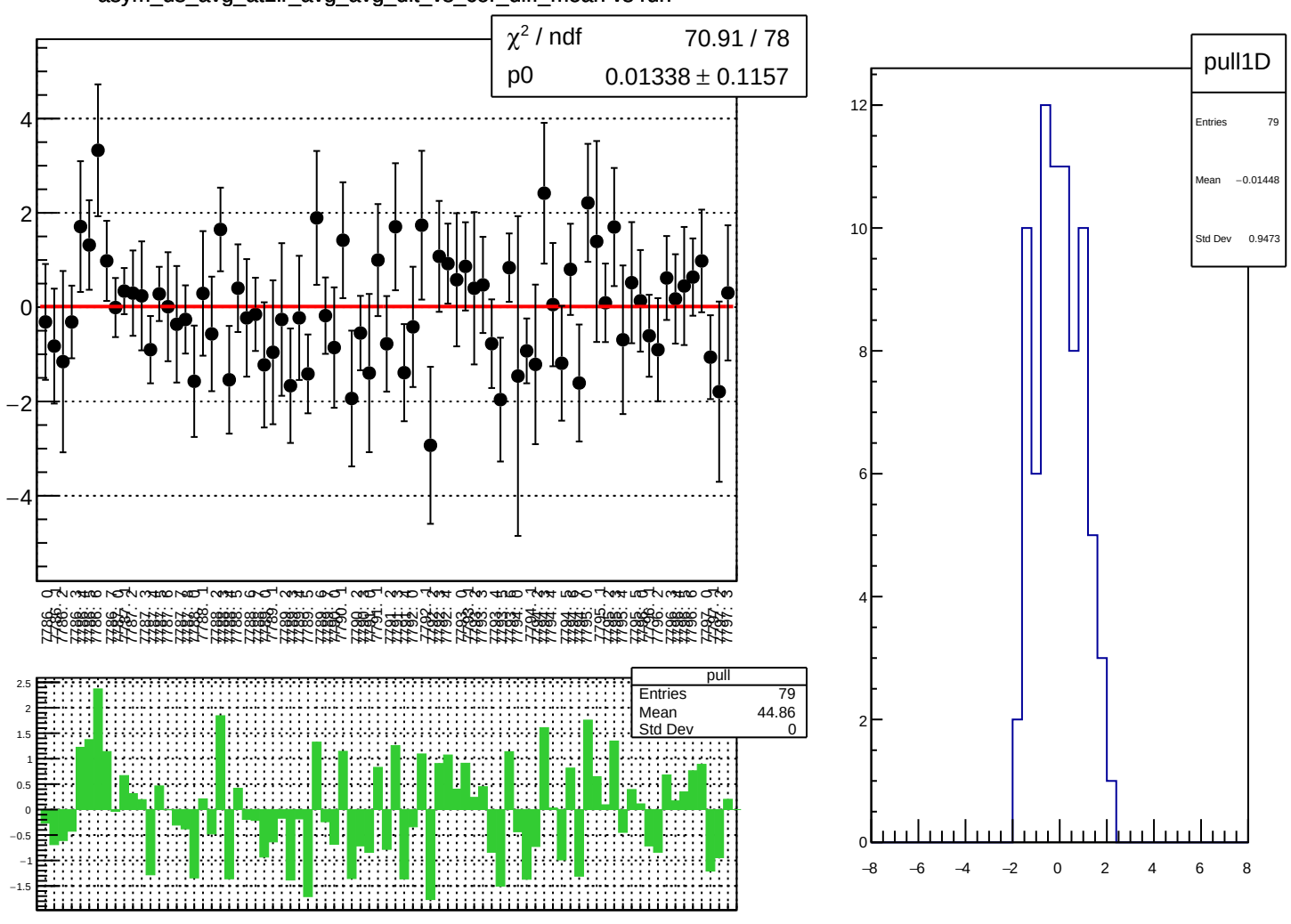

pull1D
Entries 79
Mean 0.001734
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

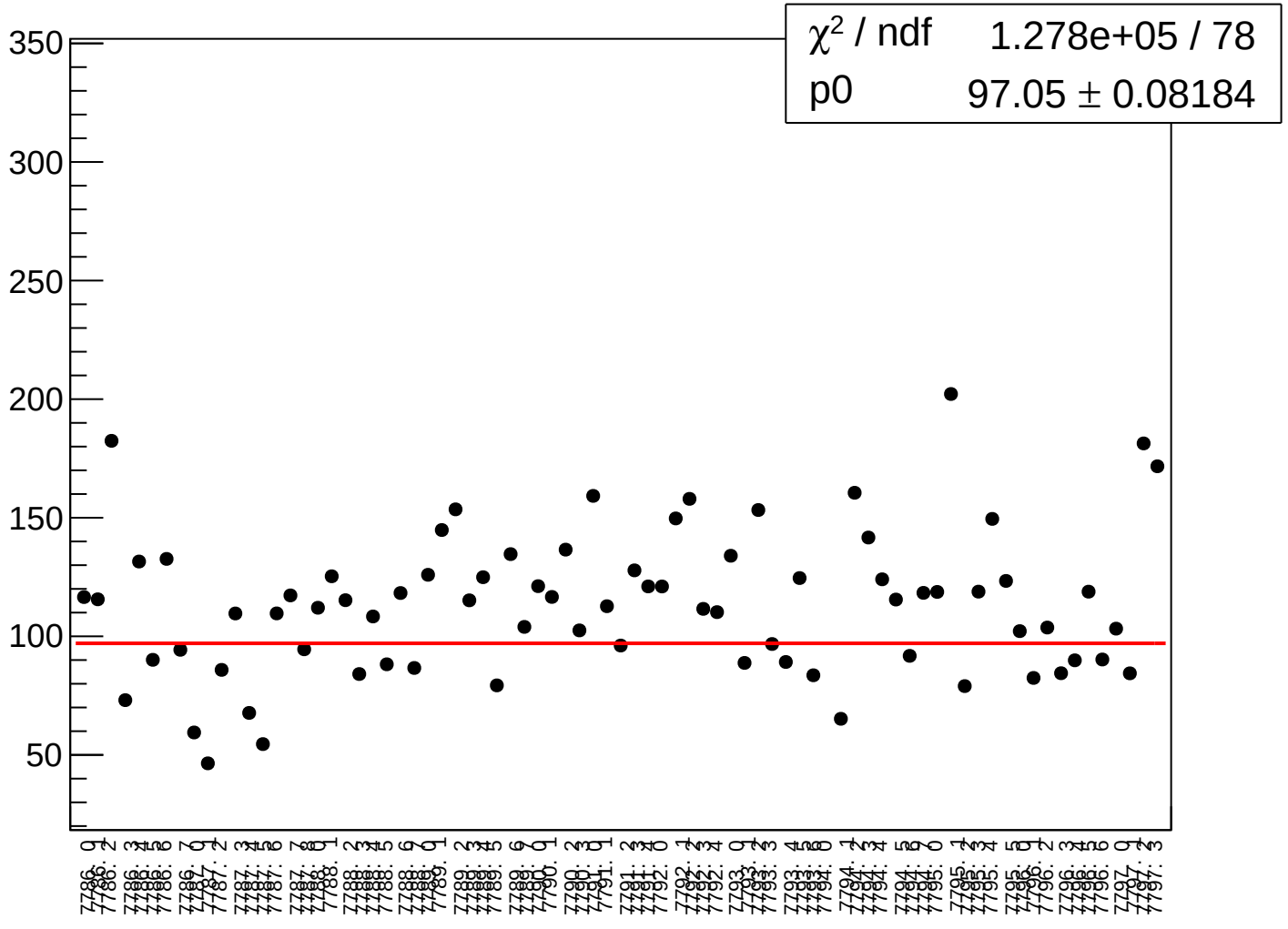

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1171 / 78
p0 3173 ± 2.563
3500
3400
3300
3200
3100
3000
2900

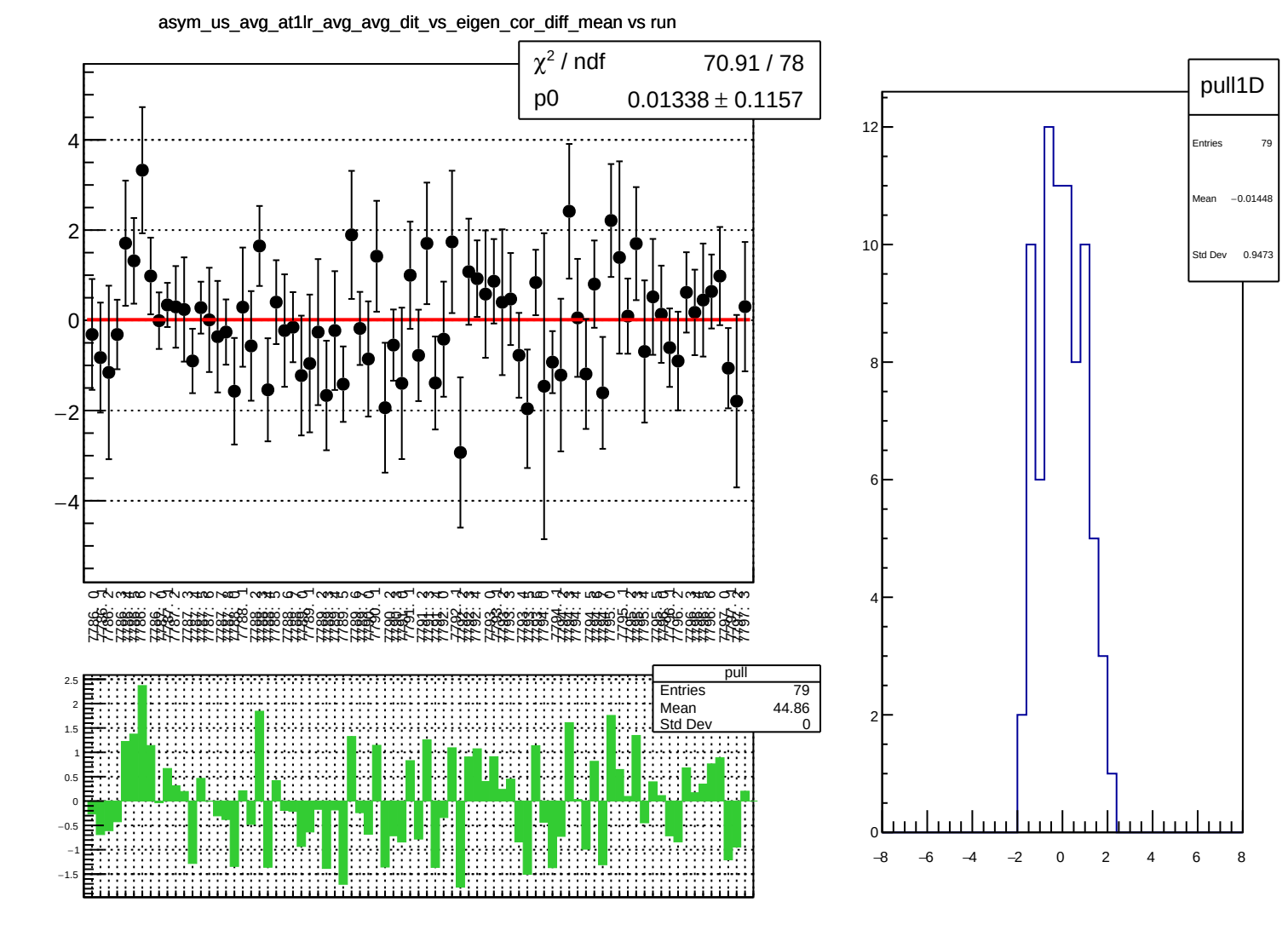

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.15 / 78
p0 2.829e−13 ± 3.023e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 79
Mean 61.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

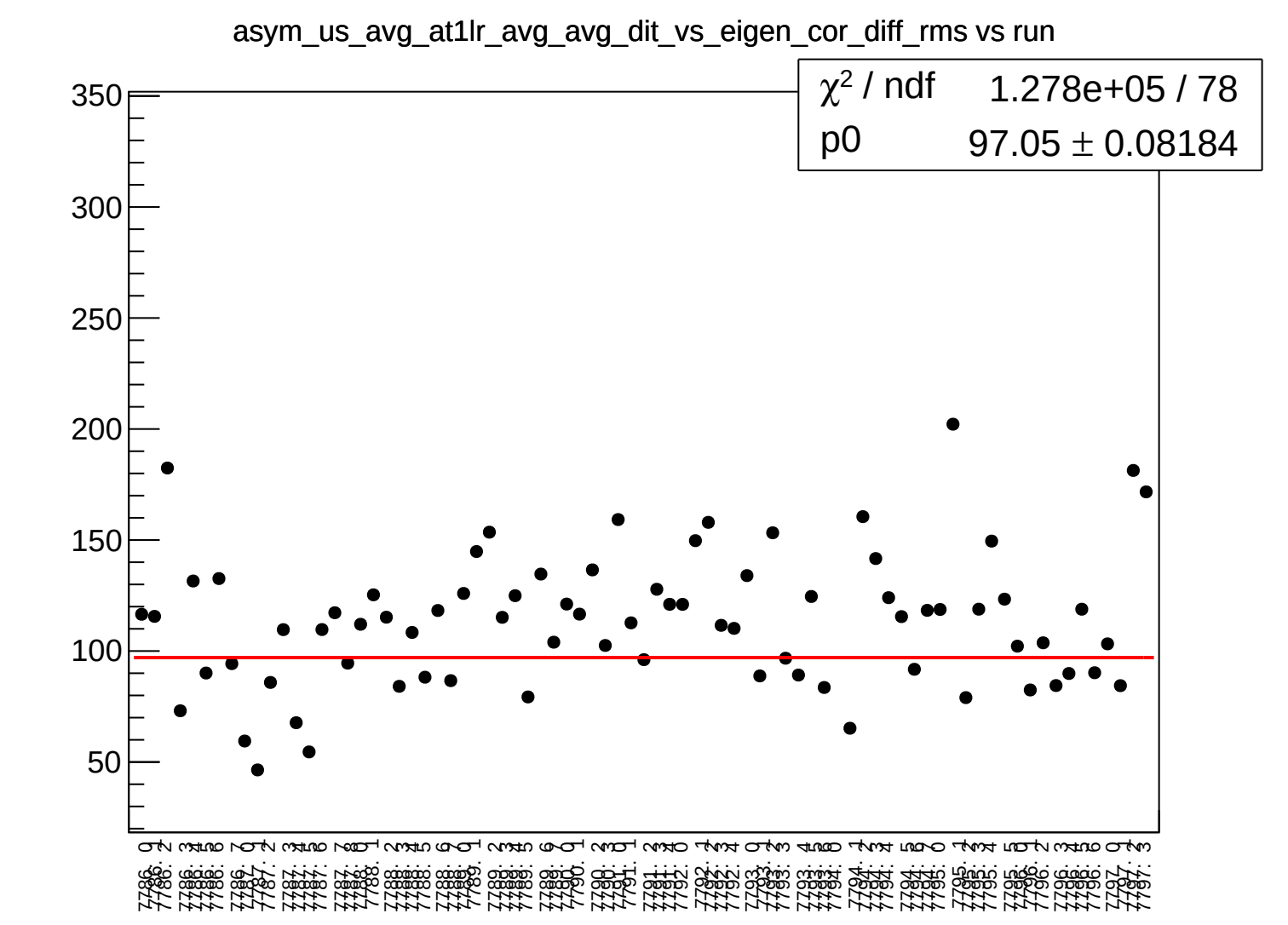

pull1D
Entries 79
Mean −0.104
Std Dev 0.8808
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

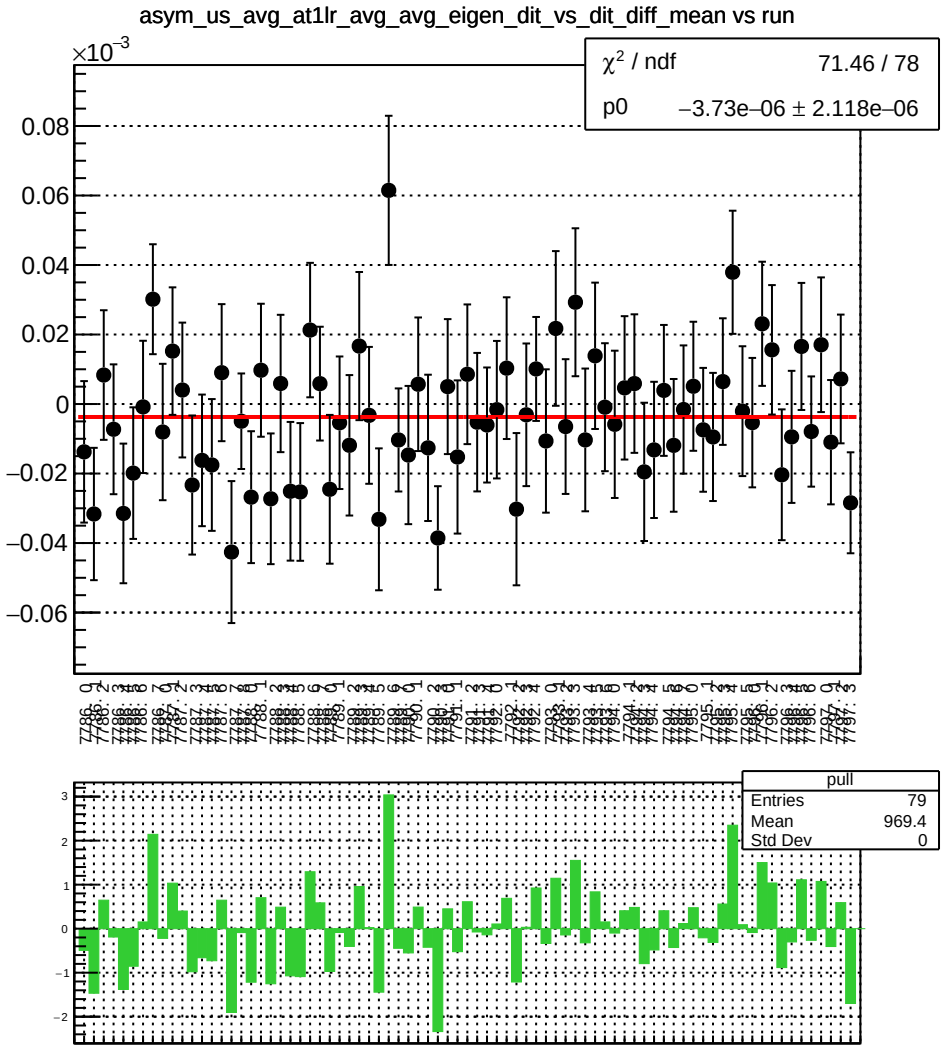

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.092e+05 / 78
p0 1.82e−10 ± 2.138e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

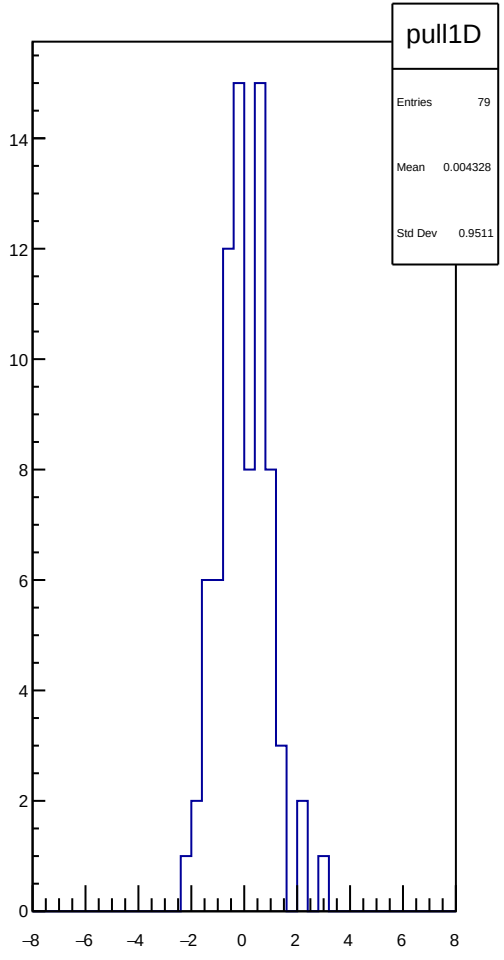

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.91 / 78
p0 0.01338 ± 0.1157
pull
Entries 79
Mean 44.86
Std Dev 0
pull1D
Entries 79
Mean −0.01448
Std Dev 0.9473

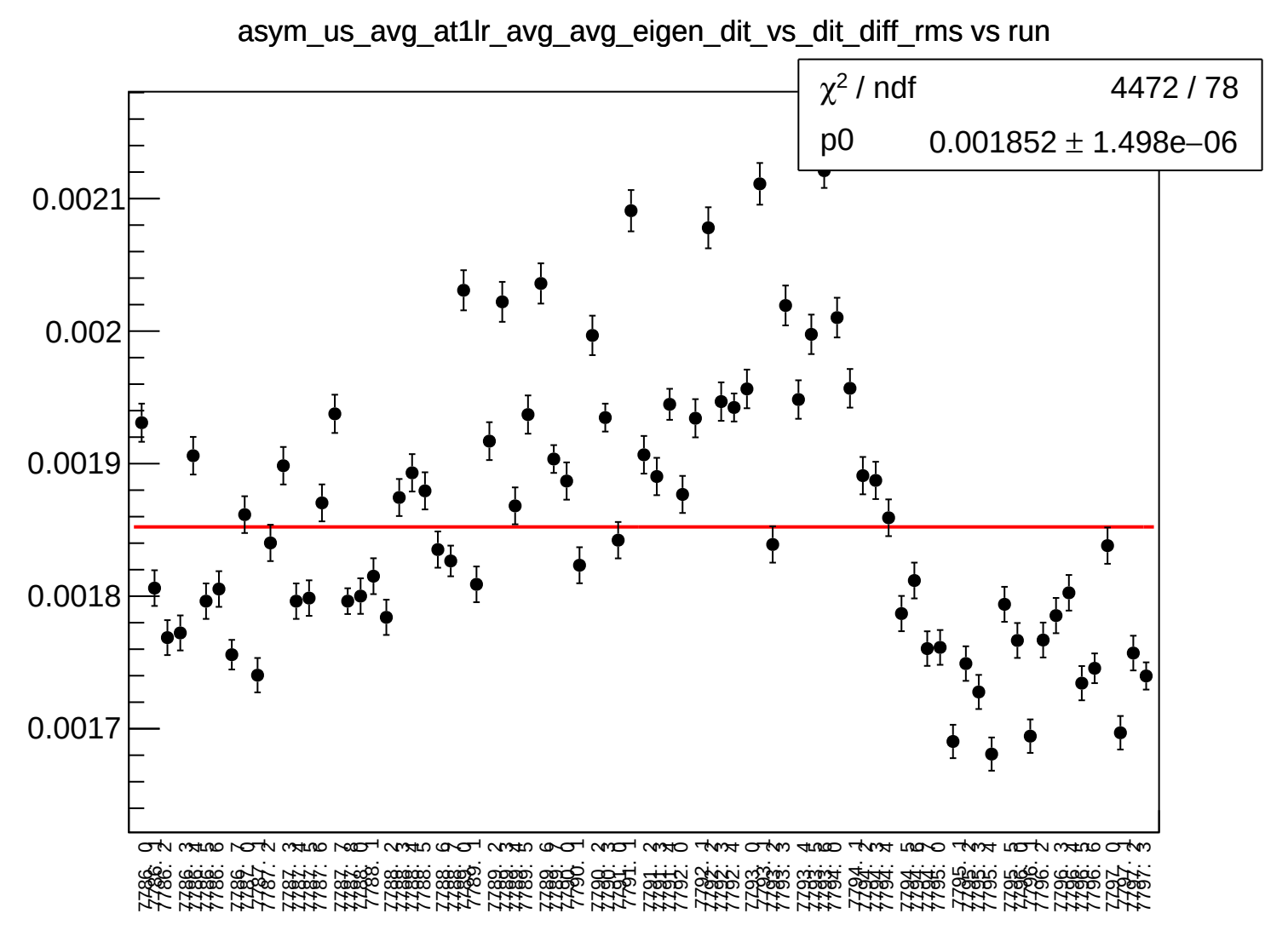

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.278e+05 / 78
p0 97.05 ± 0.08184
350
300
250
200
150
100
50

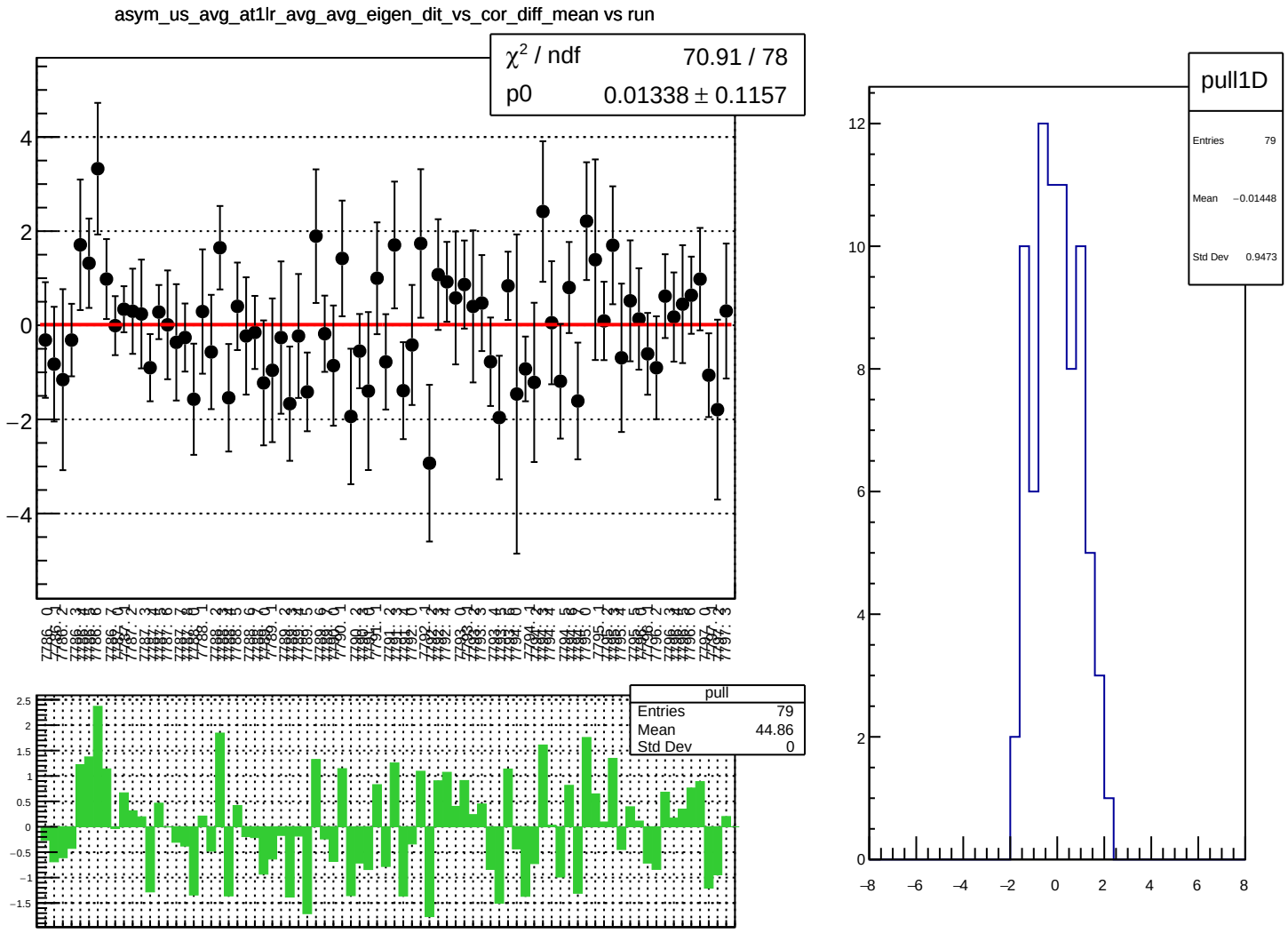

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.91 / 78
p0 0.01338 ± 0.1157
pull
Entries 79
Mean 44.86
Std Dev 0
pull1D
Entries 79
Mean −0.01448
Std Dev 0.9473

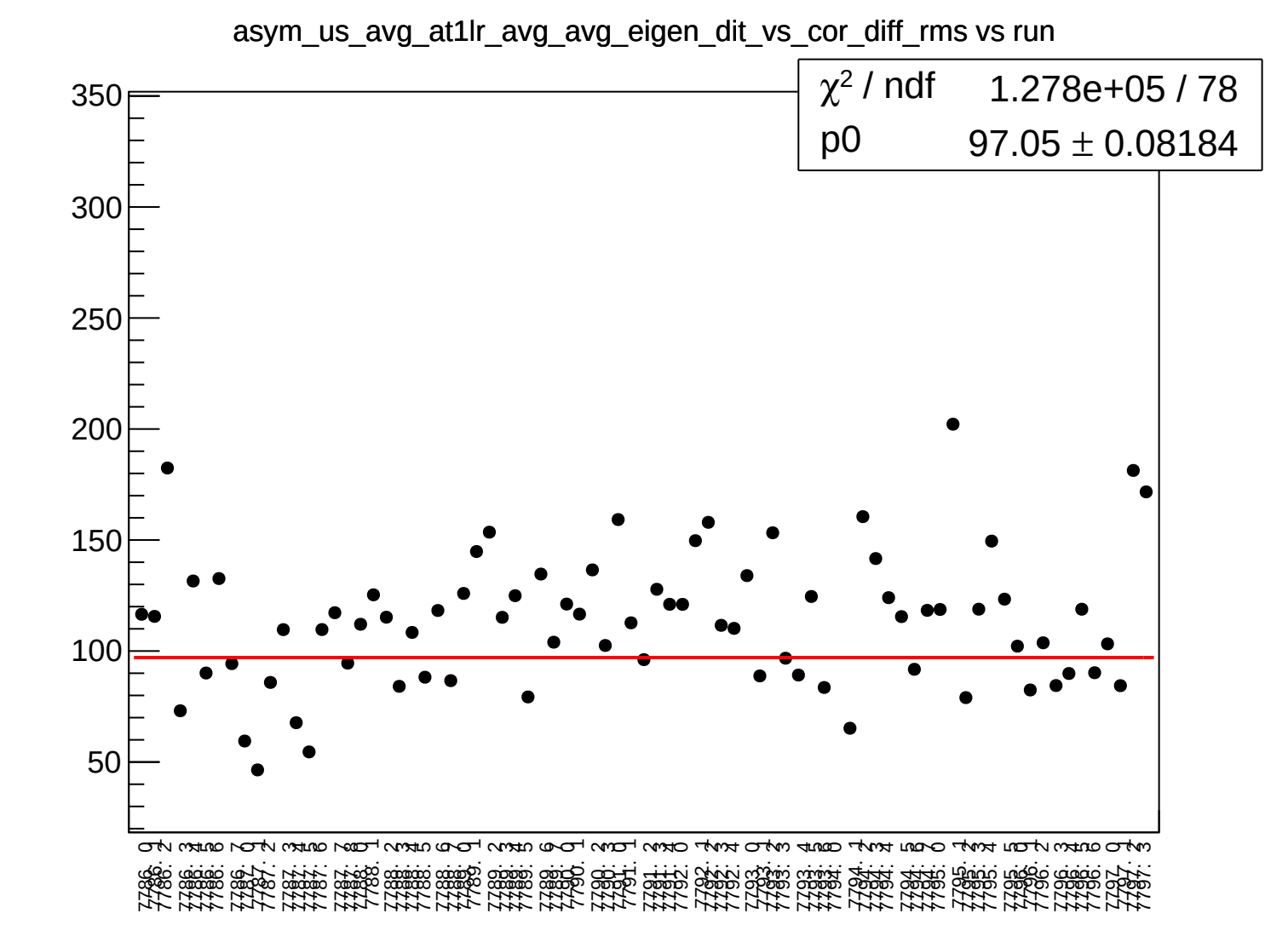

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.278e+05 / 78
p0 97.05 ± 0.08184
350
300
250
200
150
100
50

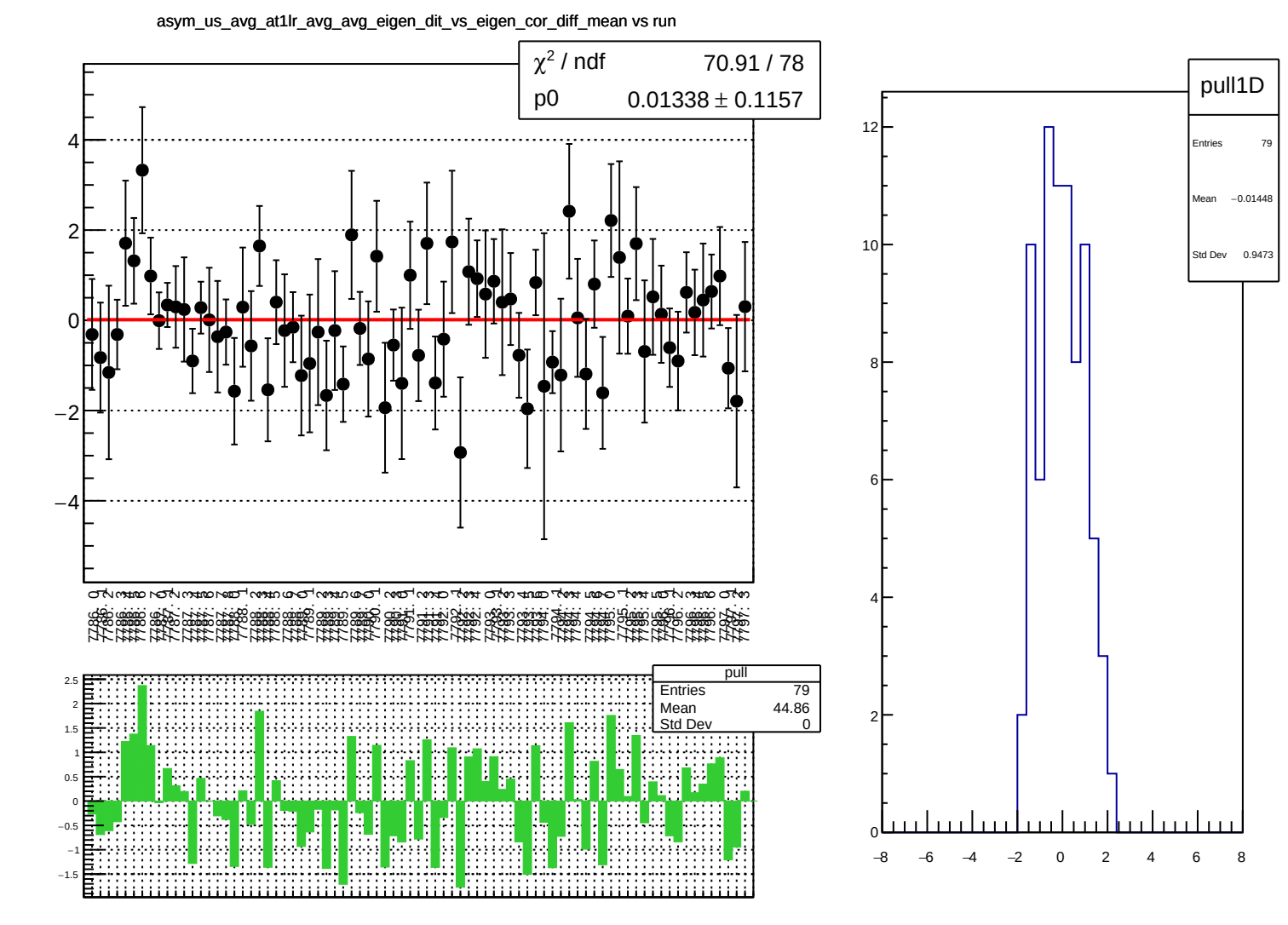

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.46 / 78
p0 −3.73e−06 ± 2.118e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 79
Mean 969.4
Std Dev 0
3
2
1
0
−1
−2

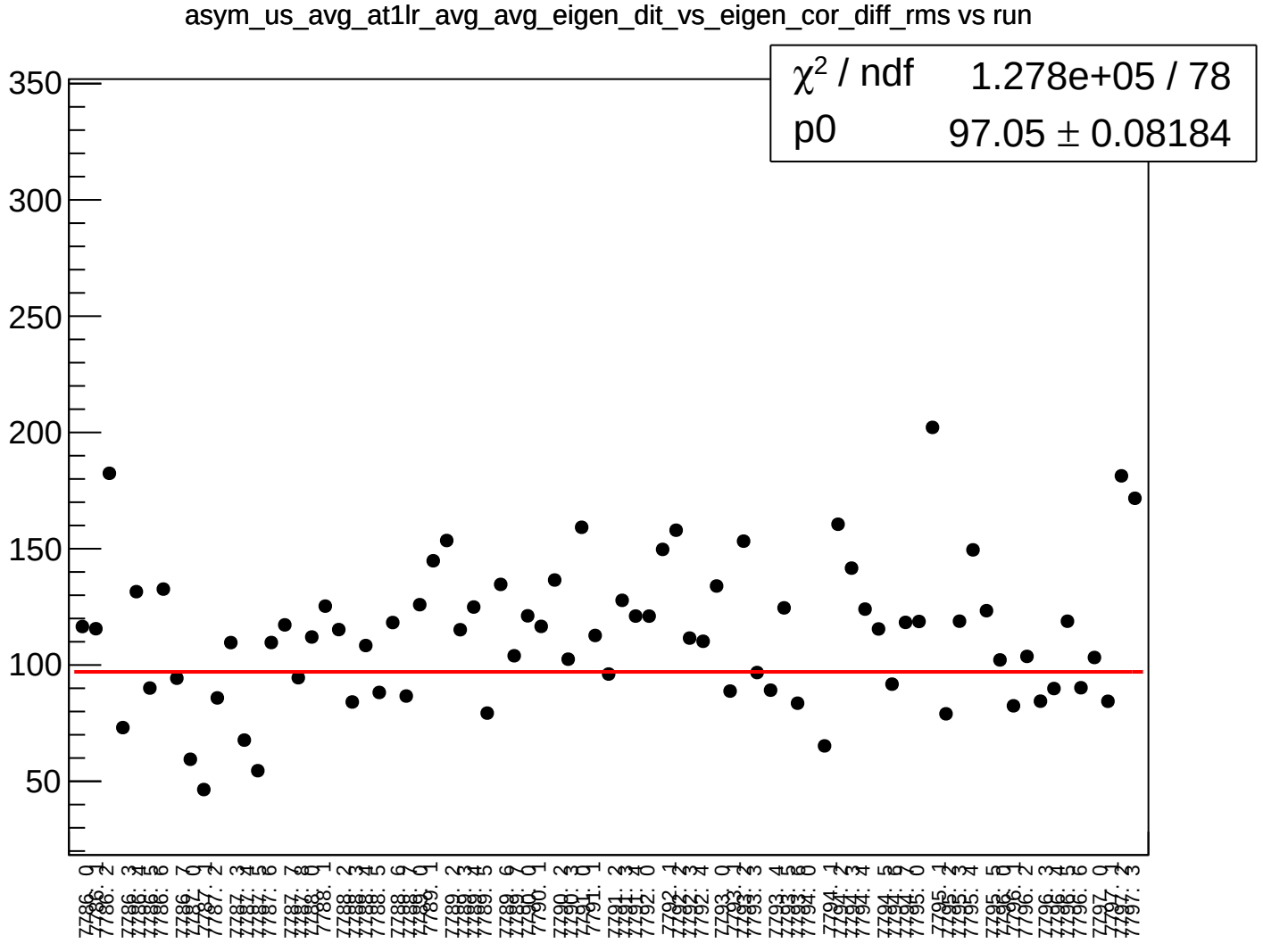

pull1D
Entries 79
Mean 0.004328
Std Dev 0.9511
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

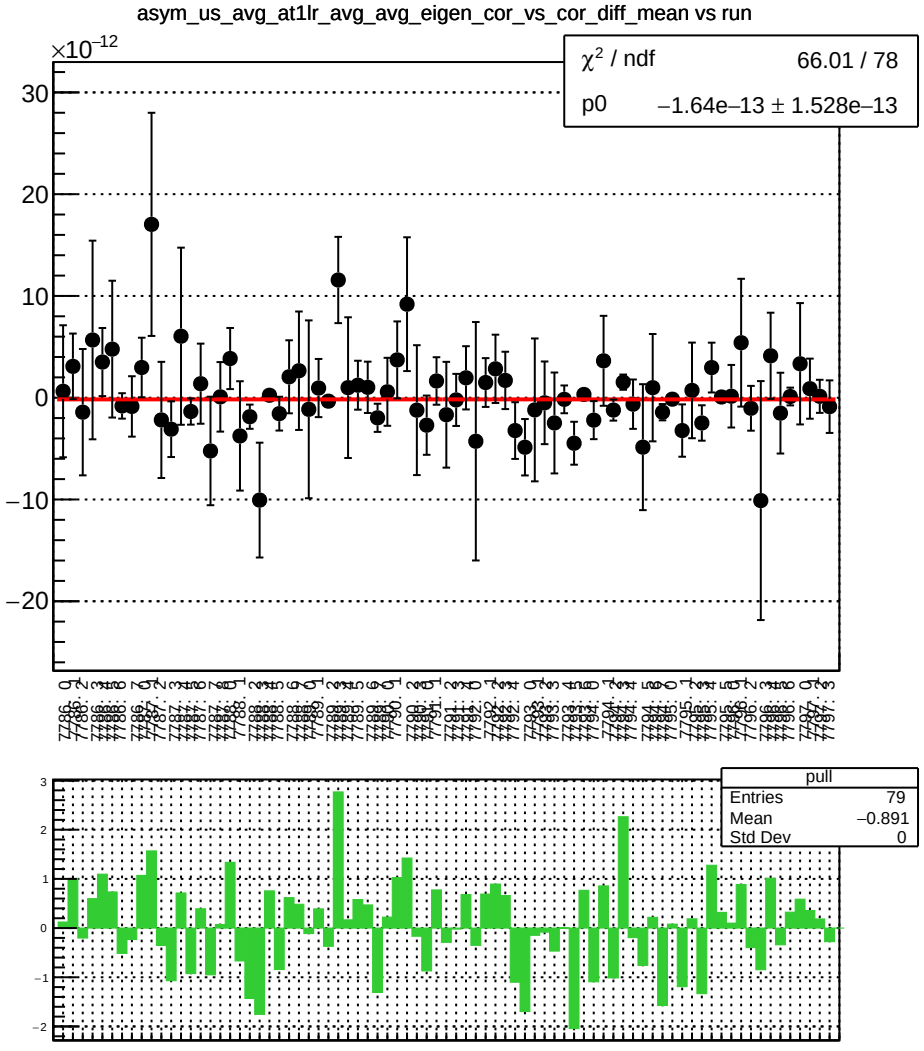

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4472 / 78
p0 0.001852 ± 1.498e−06
0.0021
0.002
0.0019
0.0018
0.0017

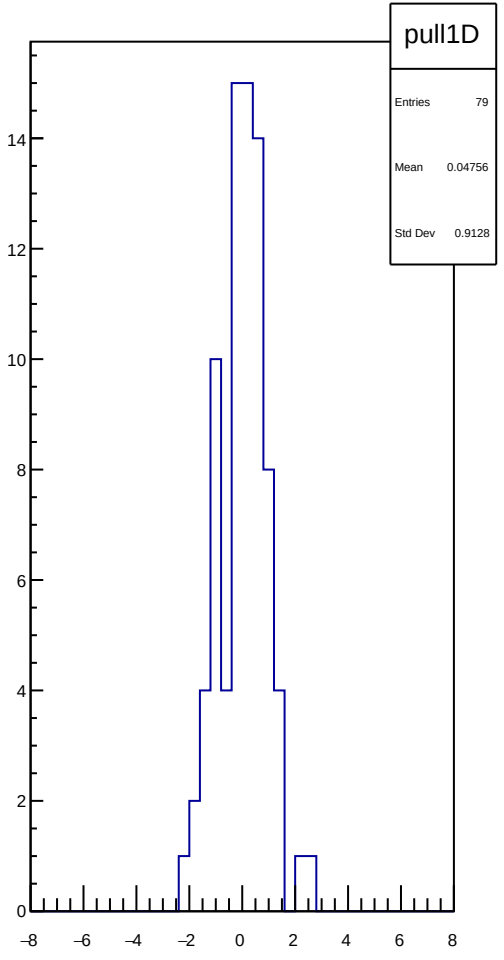

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.91 / 78
p0 0.01338 ± 0.1157
pull
Entries 79
Mean 44.86
Std Dev 0
pull1D
Entries 79
Mean −0.01448
Std Dev 0.9473

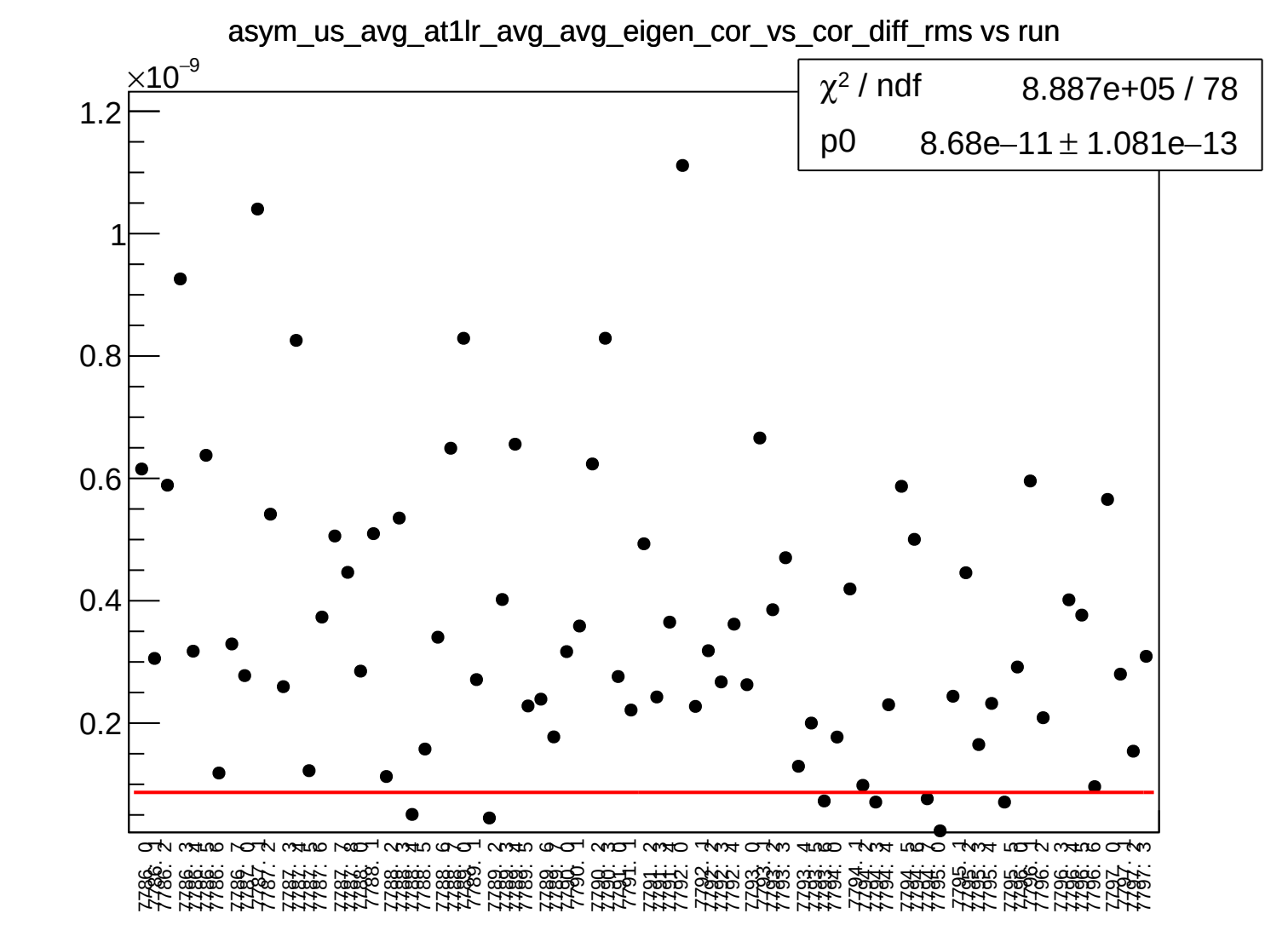

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.278e+05 / 78
p0 97.05 ± 0.08184
350
300
250
200
150
100
50

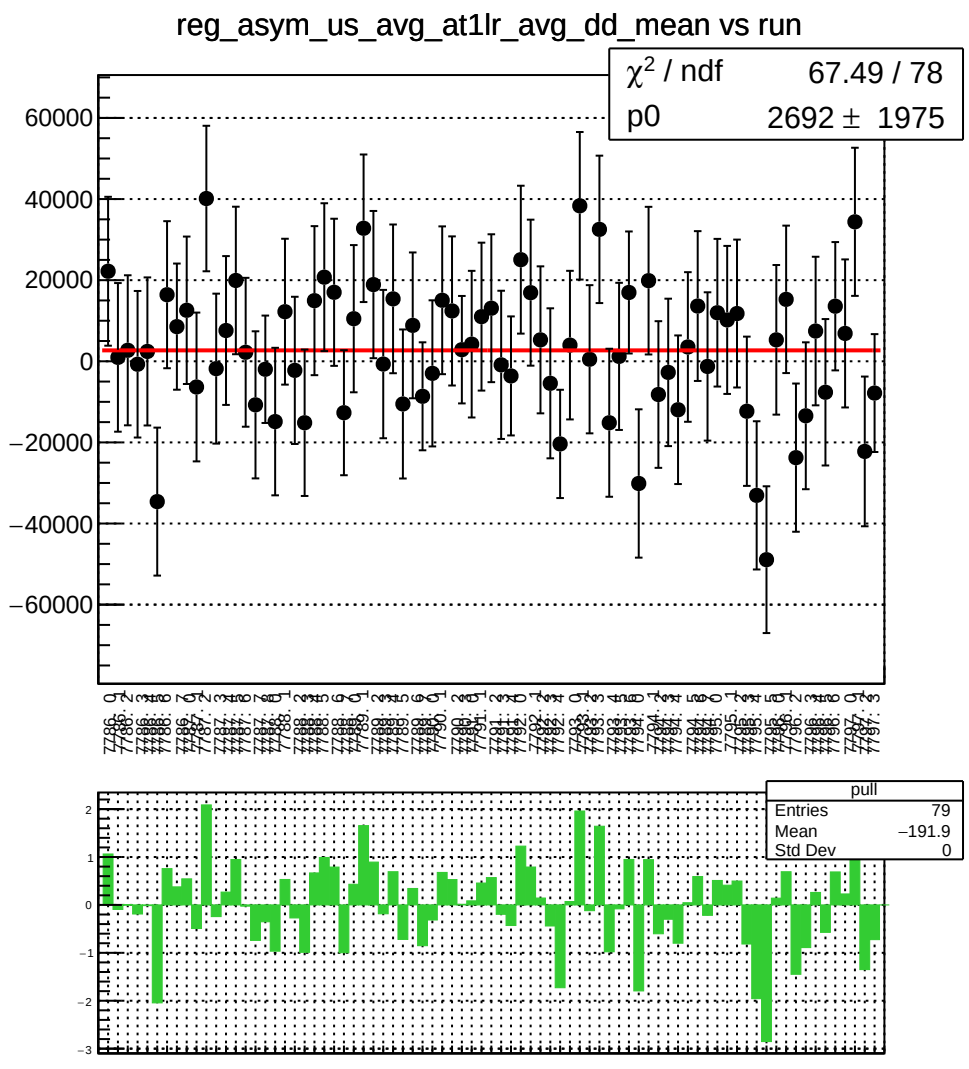

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.91 / 78
p0 0.01338 ± 0.1157
pull
Entries 79
Mean 44.86
Std Dev 0
pull1D
Entries 79
Mean −0.01448
Std Dev 0.9473

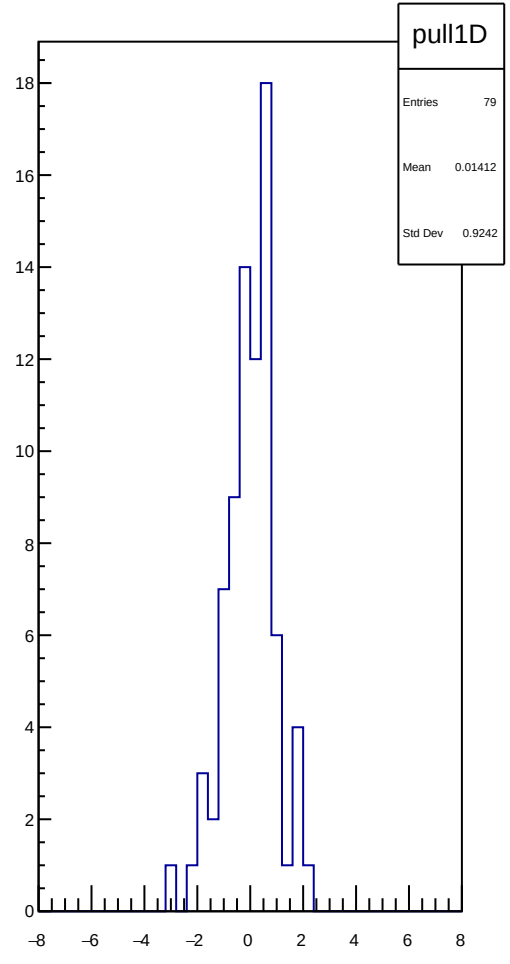

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.278e+05 / 78
p0 97.05 ± 0.08184
350
300
250
200
150
100
50

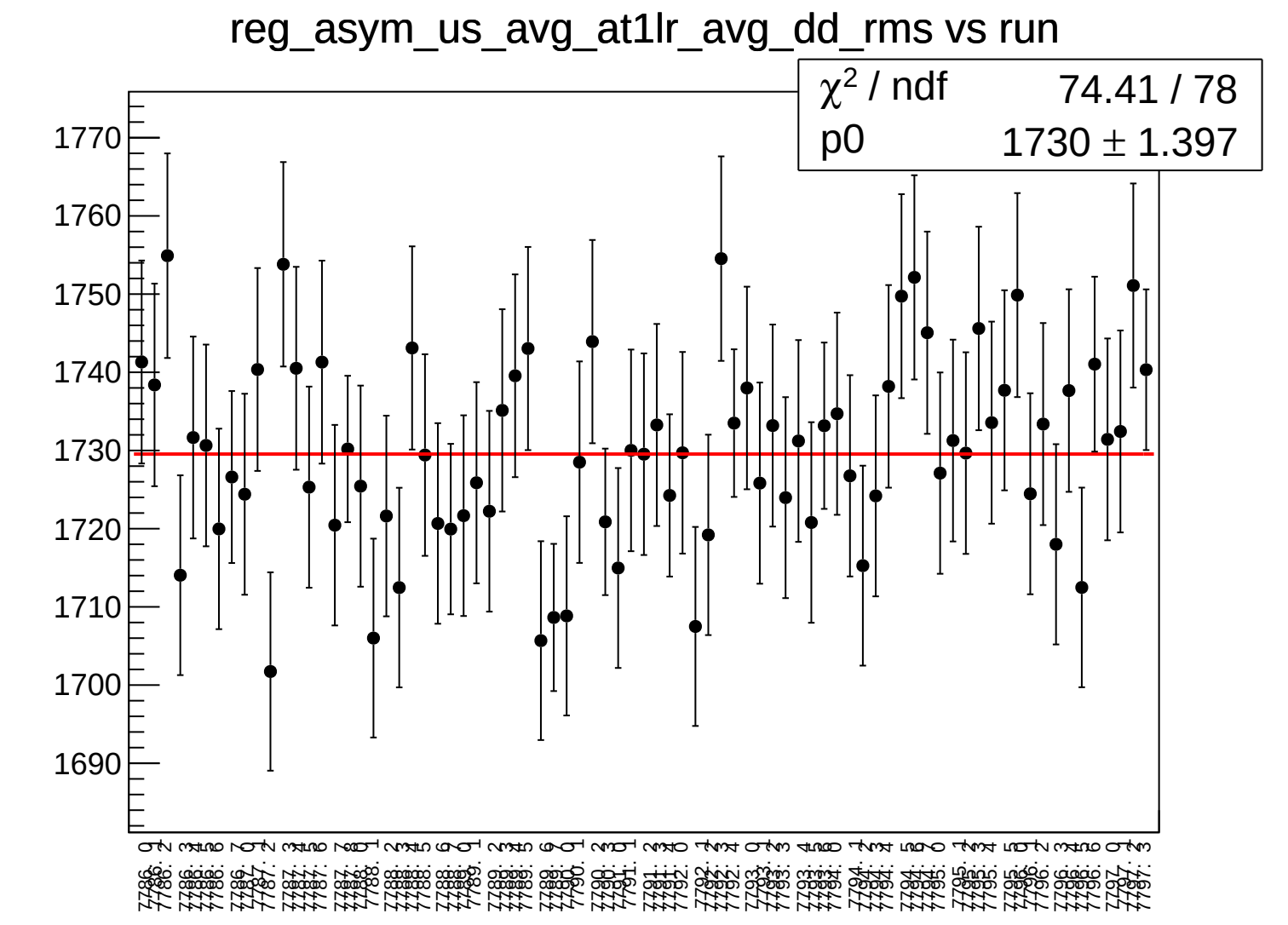

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.01 / 78
p0 −1.64e−13 ± 1.528e−13
pull
Entries 79
Mean −0.891
Std Dev 0

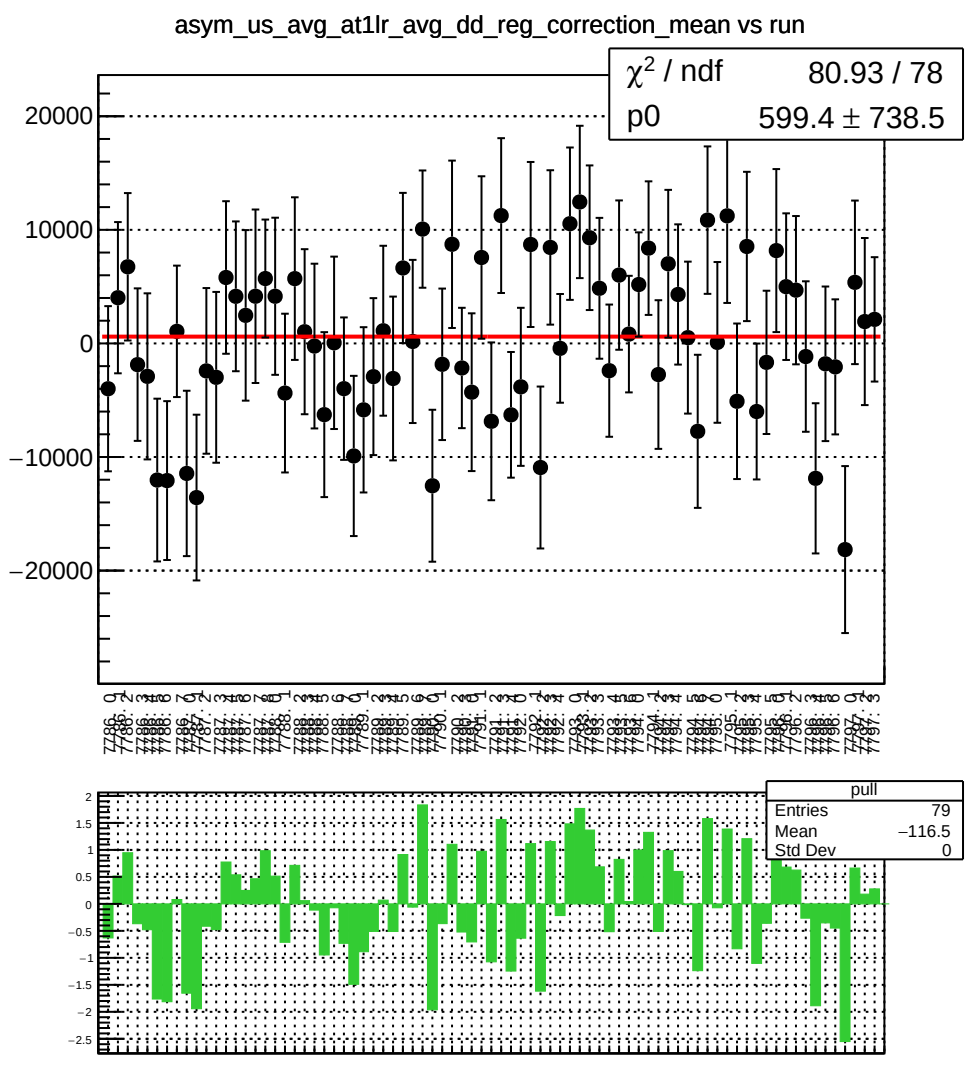

pull1D
Entries 79
Mean 0.04756
Std Dev 0.9128

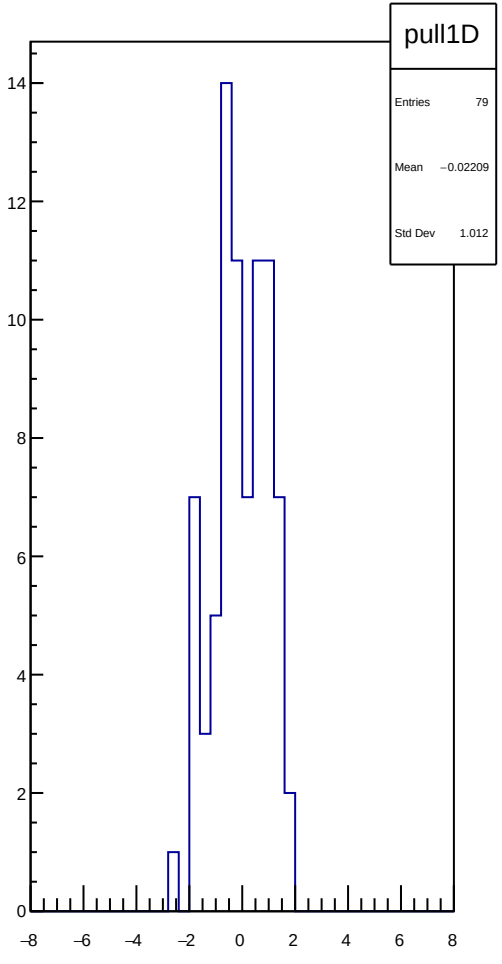

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.887e+05 / 78
p0 8.68e−11 ± 1.081e−13
1.2
1
0.8
0.6
0.4
0.2

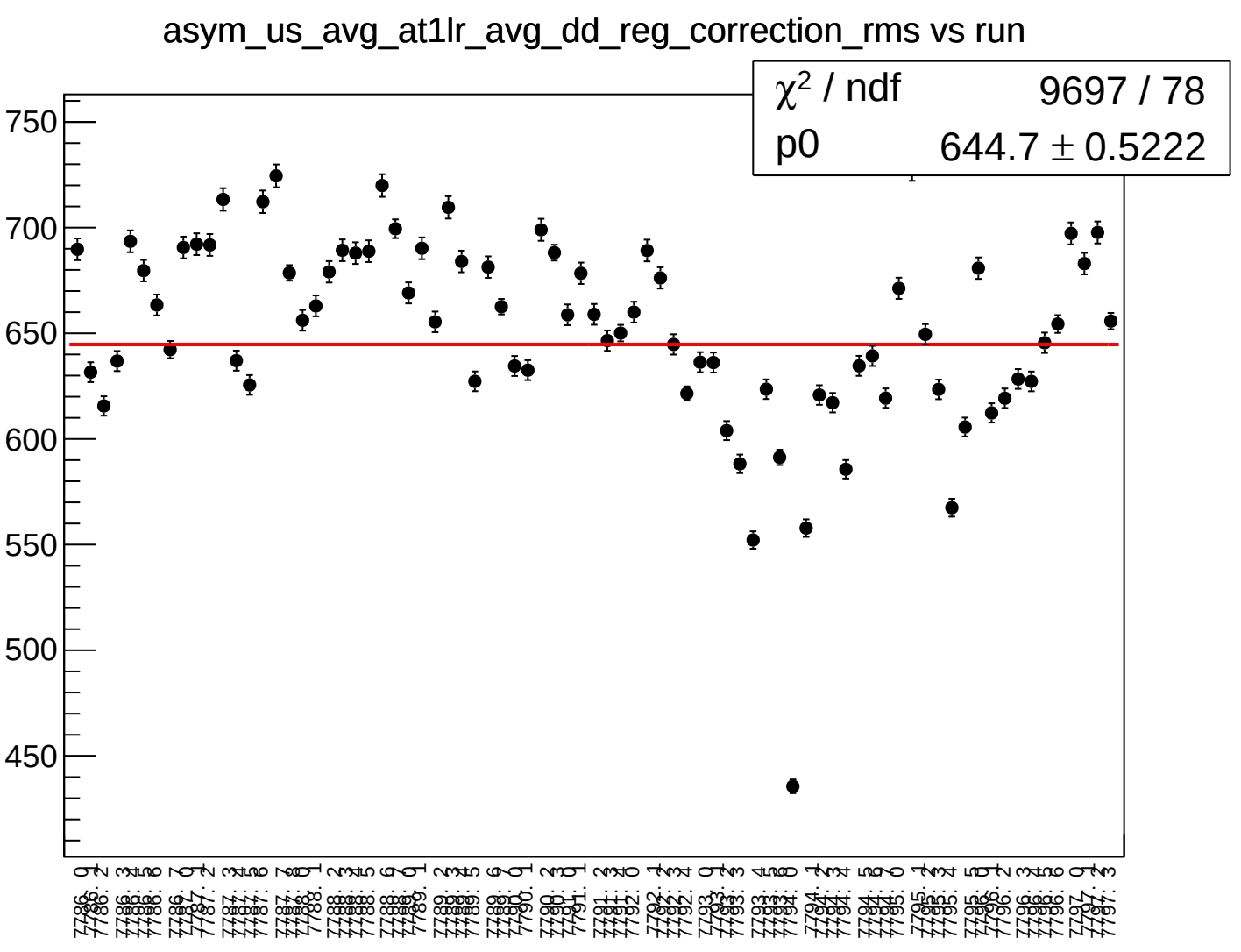

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 67.49 / 78
p0 2692 ± 1975
pull
Entries 79
Mean −191.9
Std Dev 0

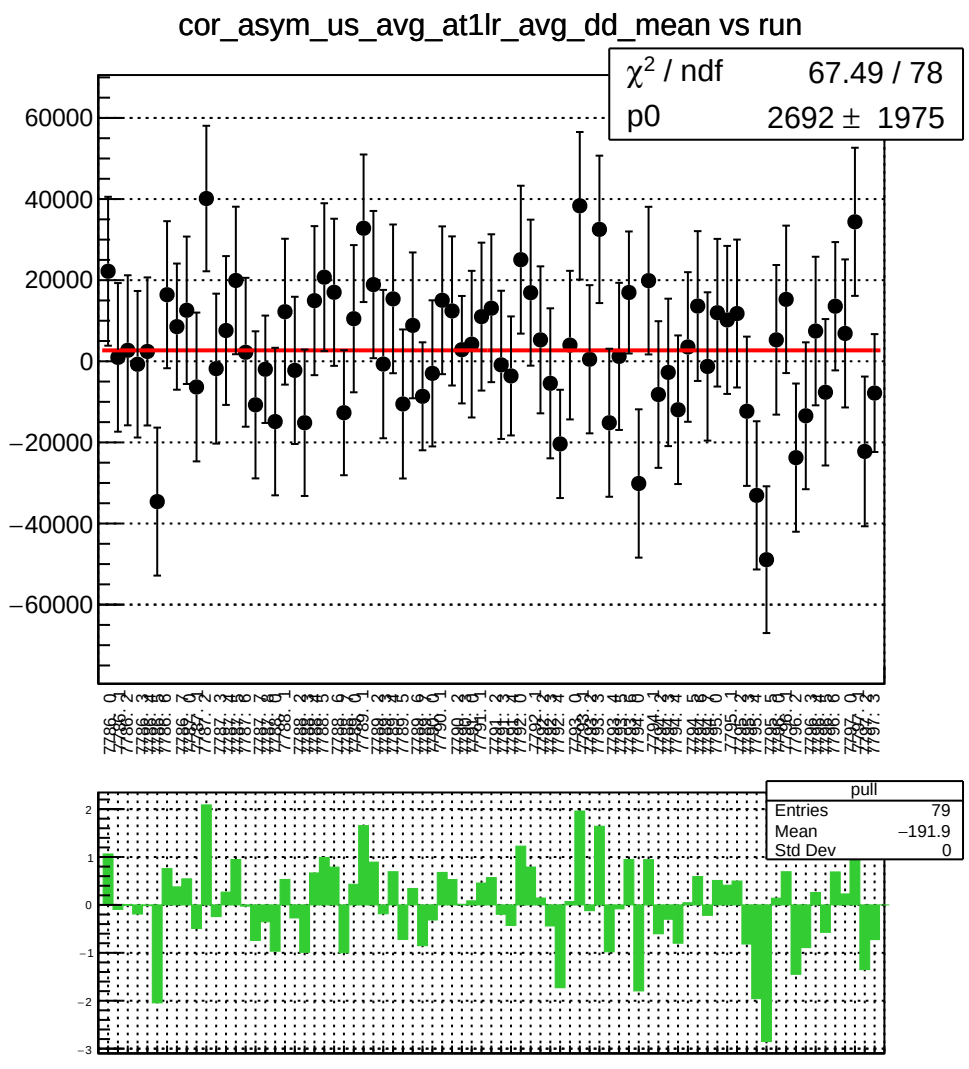

pull1D
Entries 79
Mean 0.01412
Std Dev 0.9242

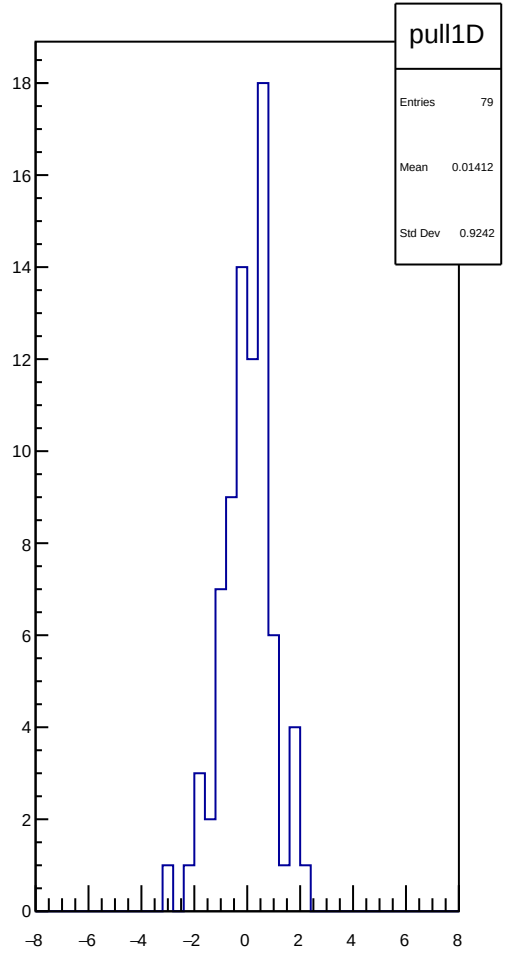

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 74.41 / 78
p0 1730 ± 1.397
1770
1760
1750
1740
1730
1720
1710
1700
1690

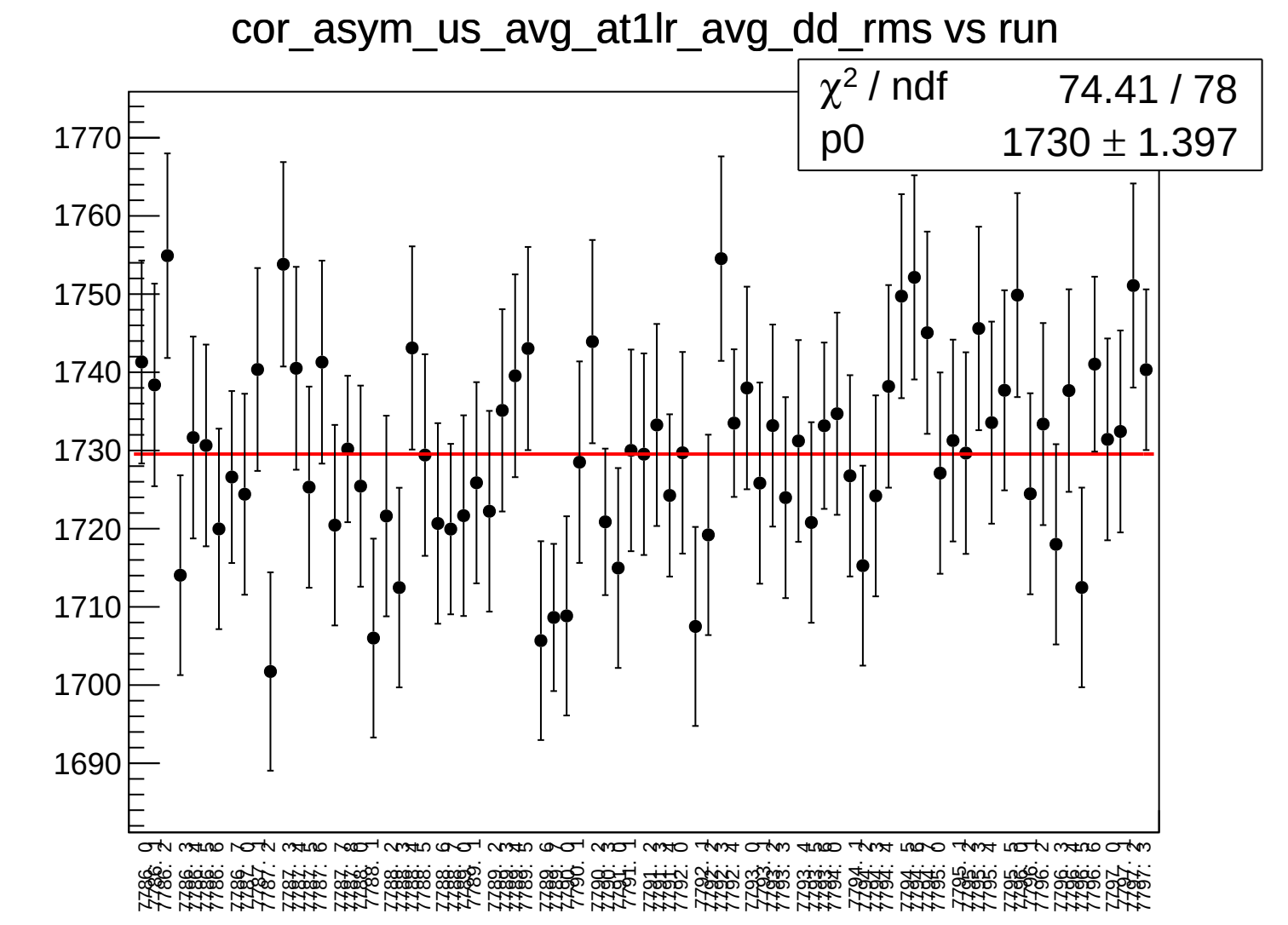

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 80.93 / 78
p0 599.4 ± 738.5
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −116.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

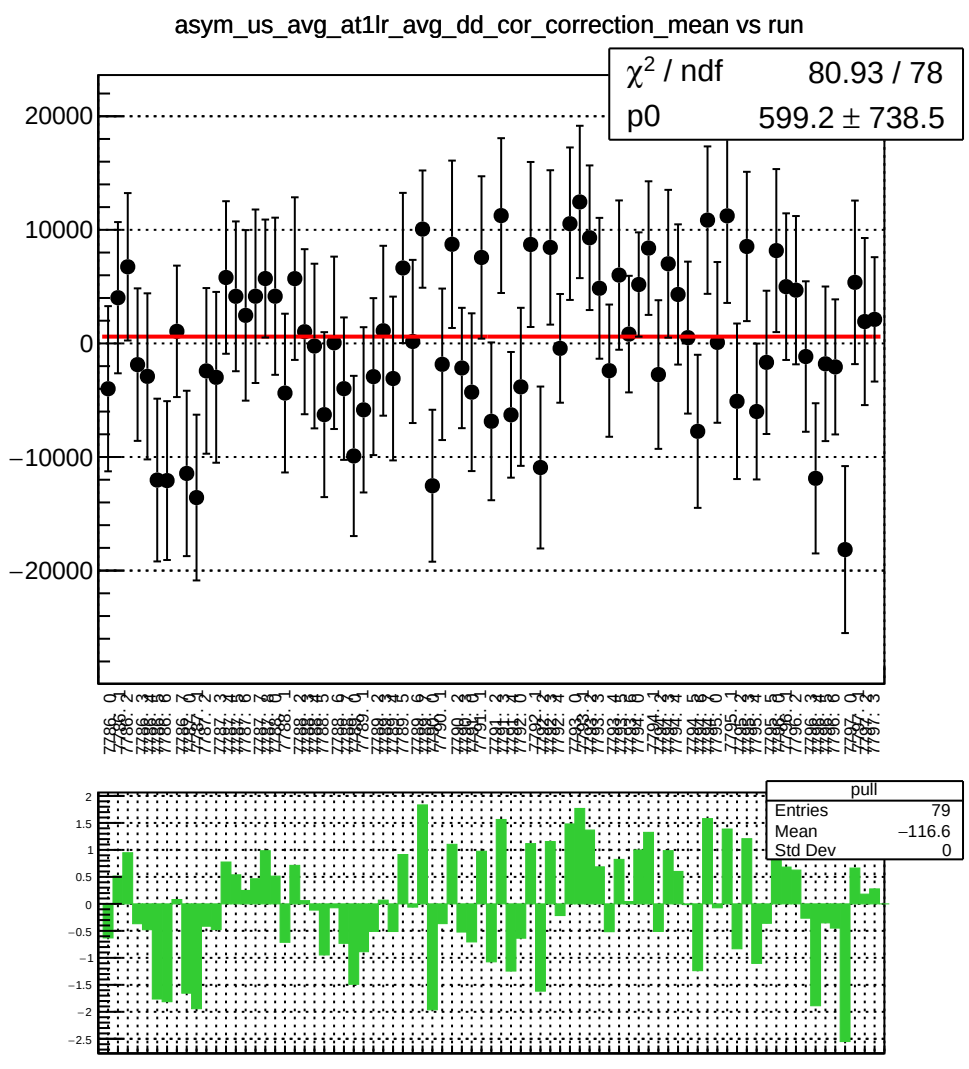

pull1D
Entries 79
Mean −0.02209
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

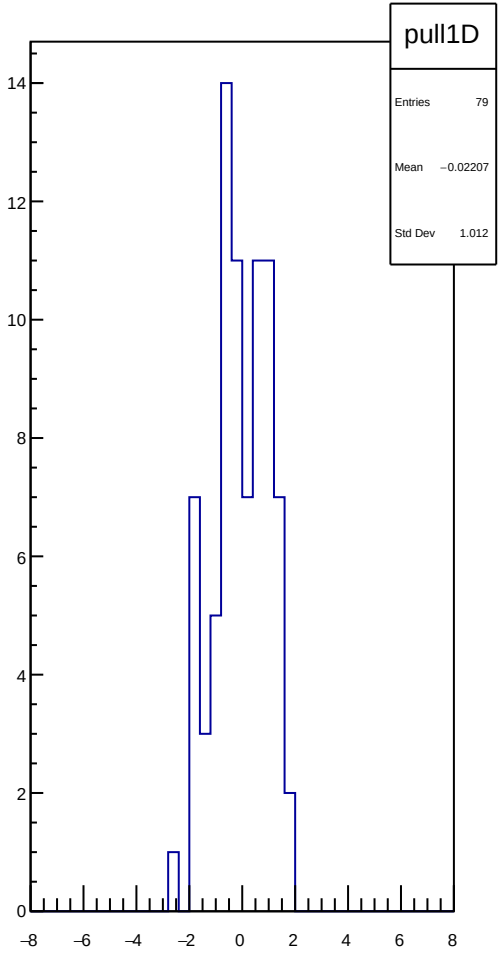

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 9697 / 78
p0 644.7 ± 0.5222
750
700
650
600
550
500
450

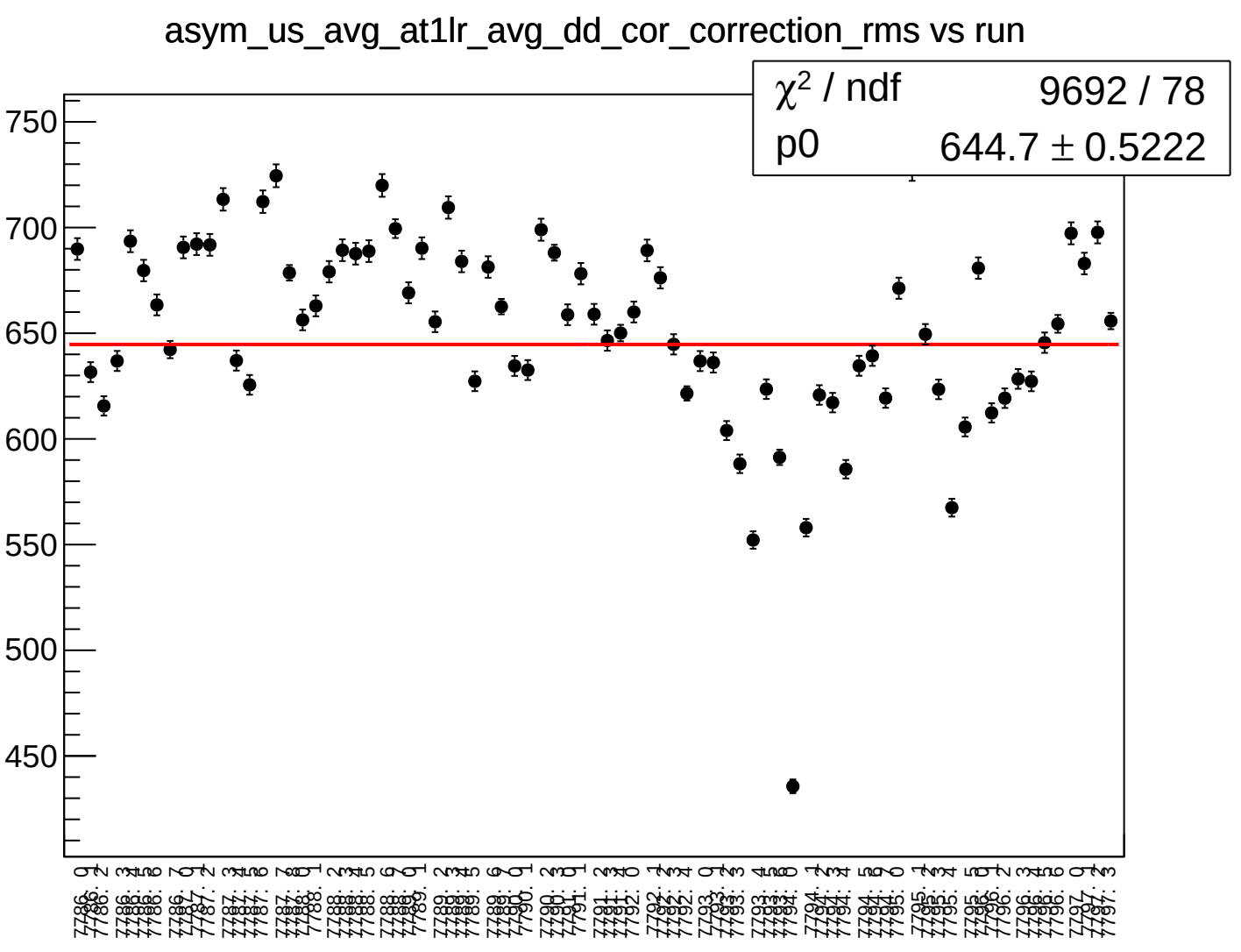

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 67.49 / 78
p0 2692 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −191.9
Std Dev 0
2
1
0
−1
−2
−3

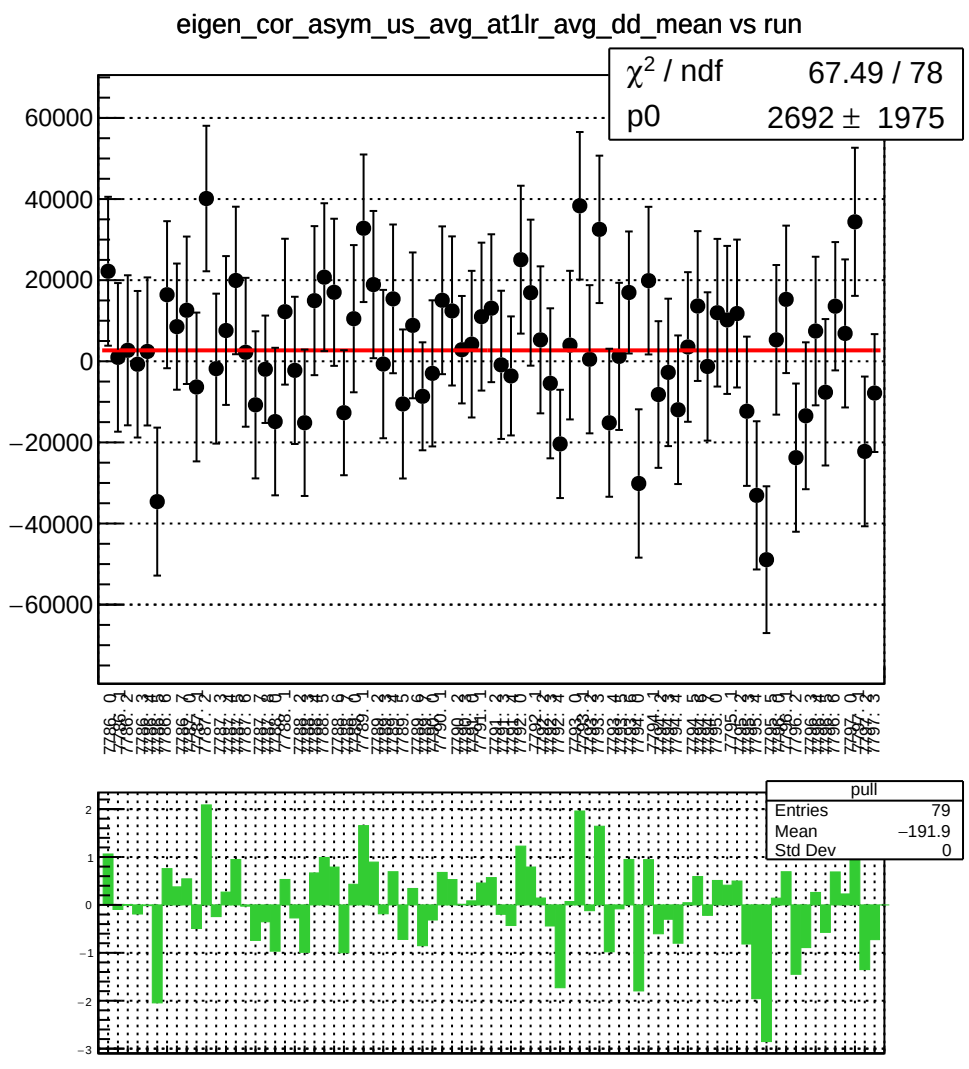

pull1D
Entries 79
Mean 0.01412
Std Dev 0.9242
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

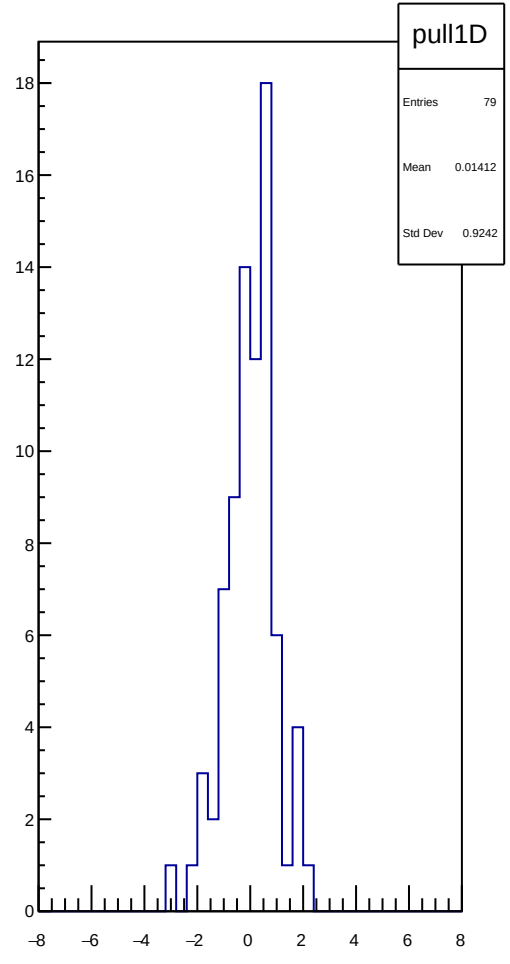

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 74.41 / 78
p0 1730 ± 1.397
1770
1760
1750
1740
1730
1720
1710
1700
1690

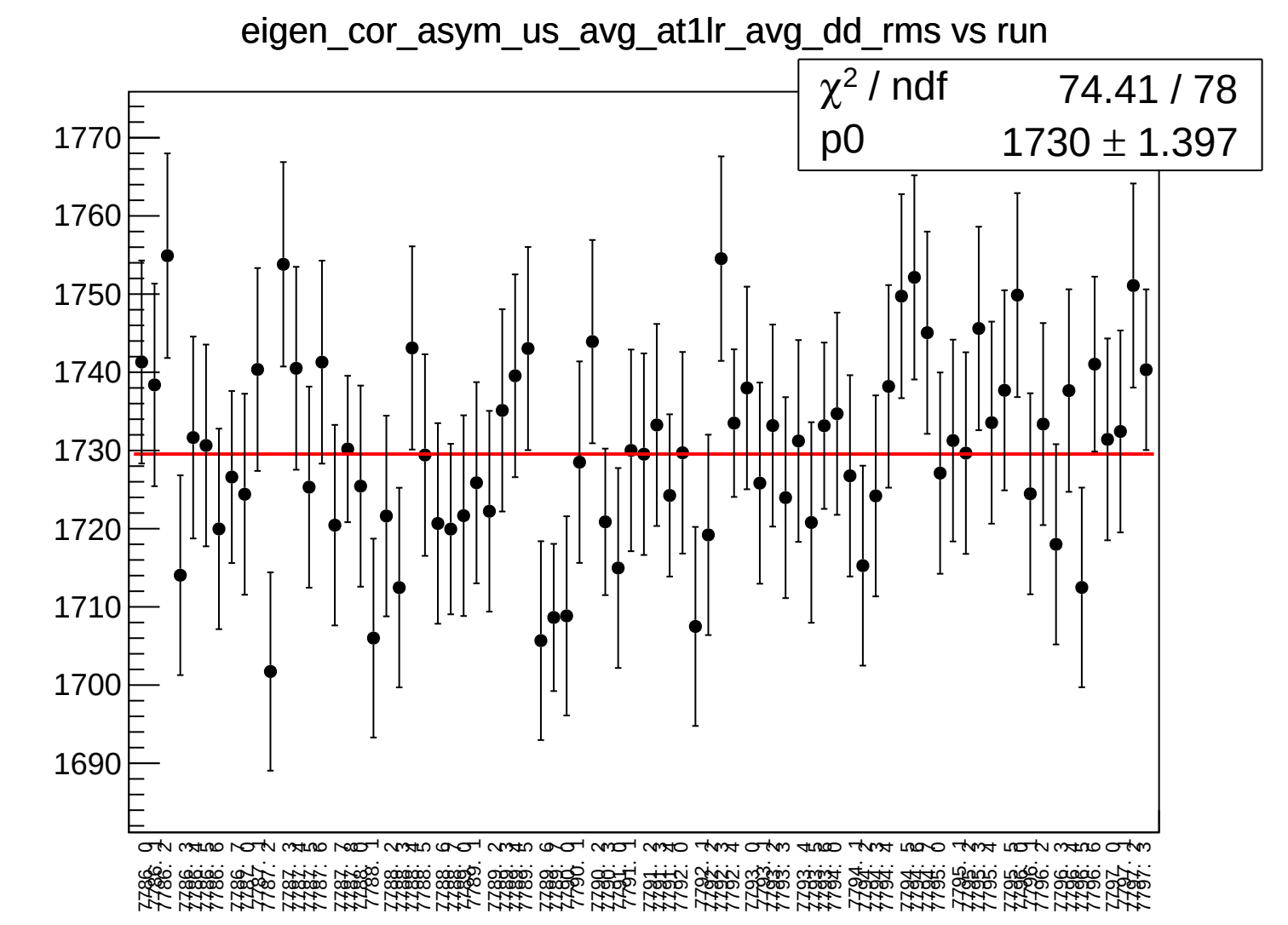

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 80.93 / 78
p0 599.2 ± 738.5
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −116.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

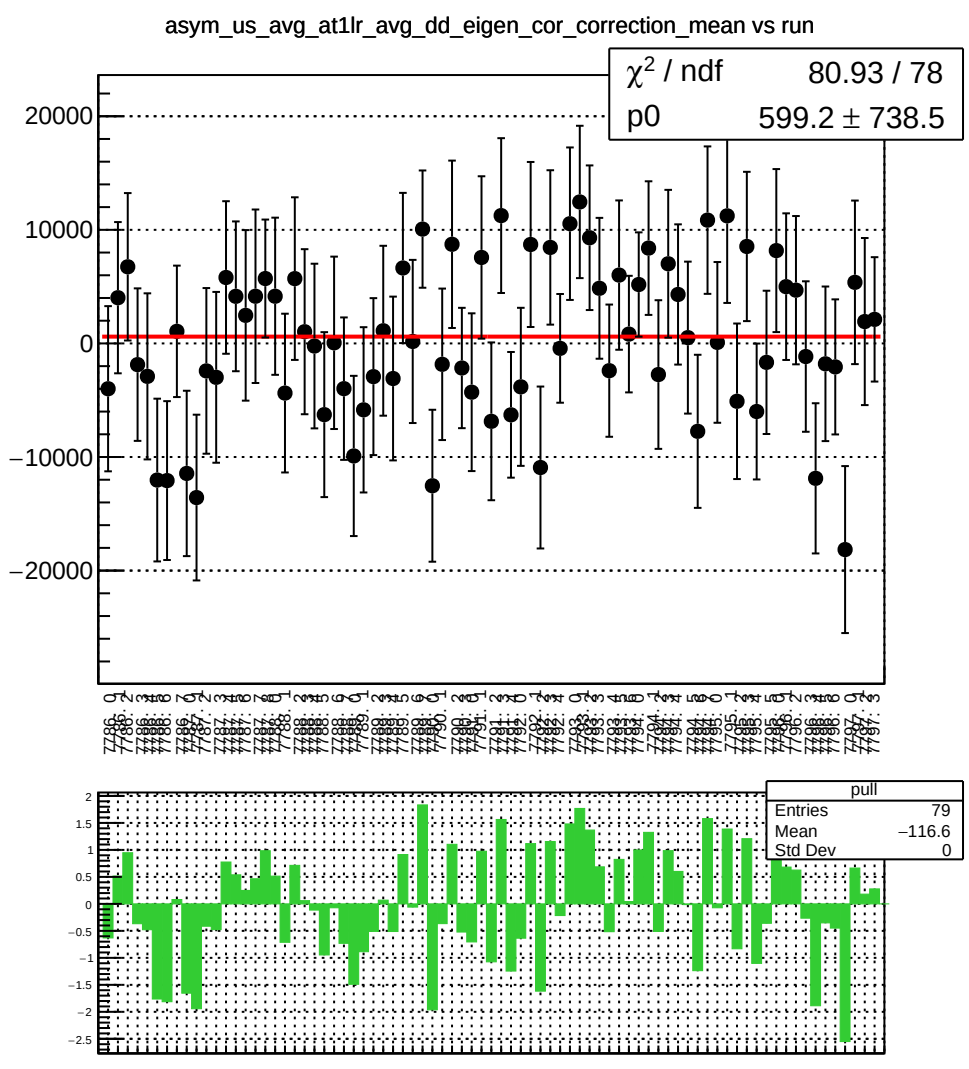

pull1D
Entries 79
Mean −0.02207
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

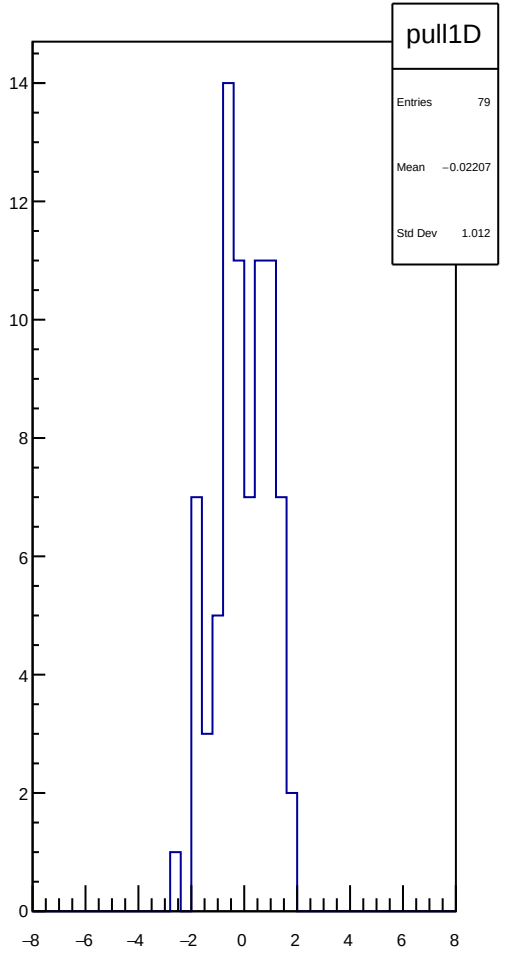

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 9692 / 78
p0 644.7 ± 0.5222
750
700
650
600
550
500
450

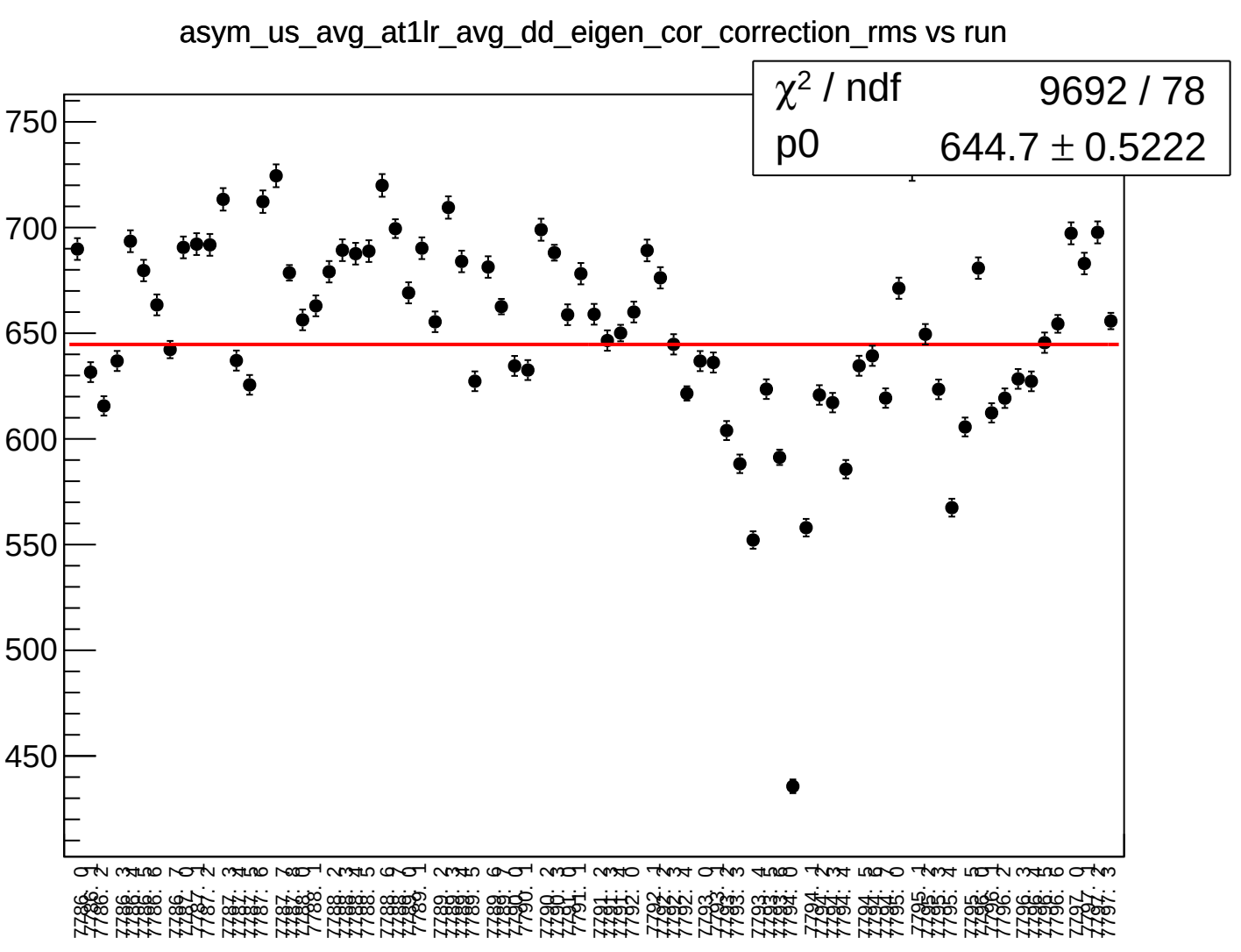

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 67.49 / 78
p0 2692 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −191.9
Std Dev 0
2
1
0
−1
−2
−3

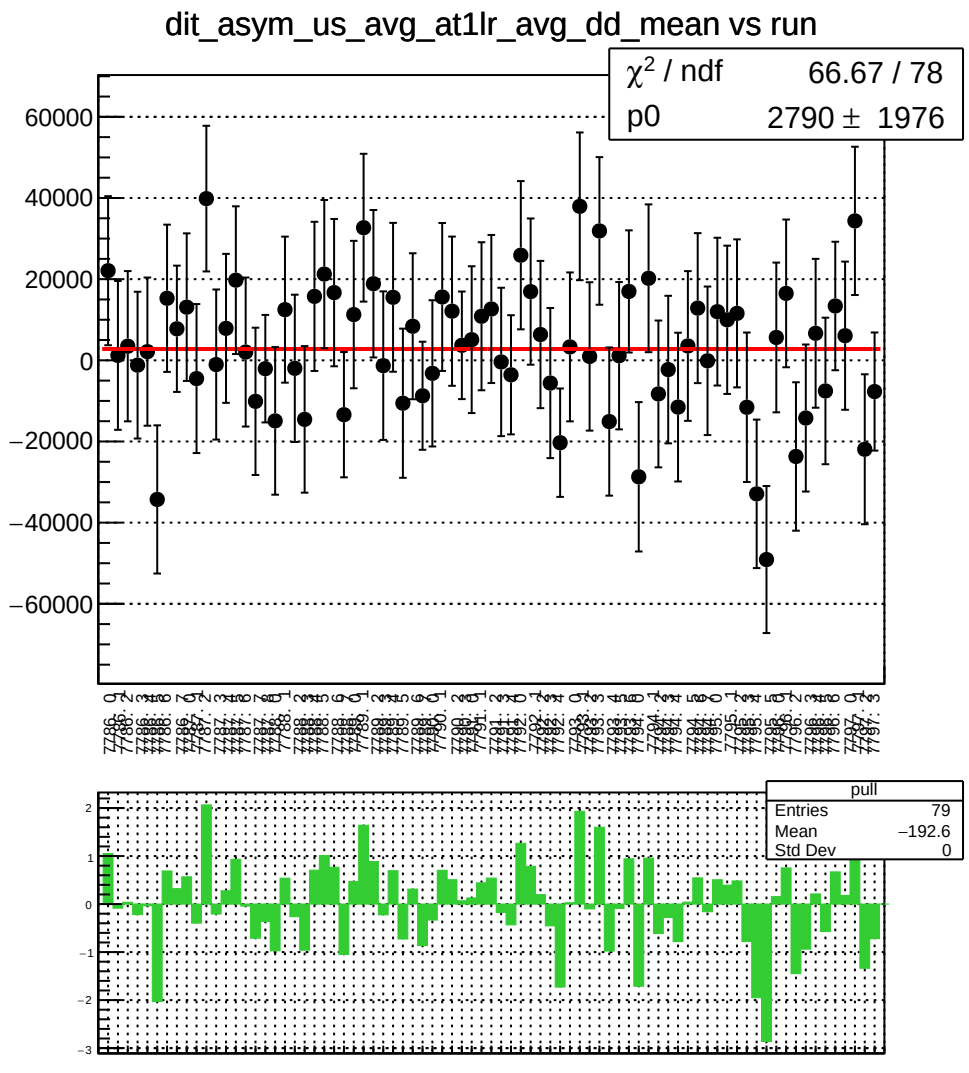

pull1D
Entries 79
Mean 0.01412
Std Dev 0.9242
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

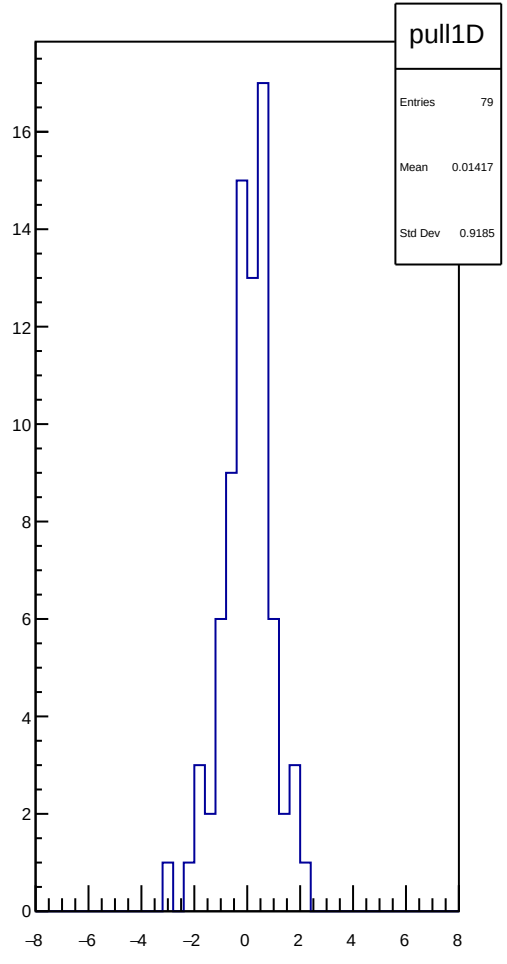

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 74.41 / 78
p0 1730 ± 1.397
1770
1760
1750
1740
1730
1720
1710
1700
1690

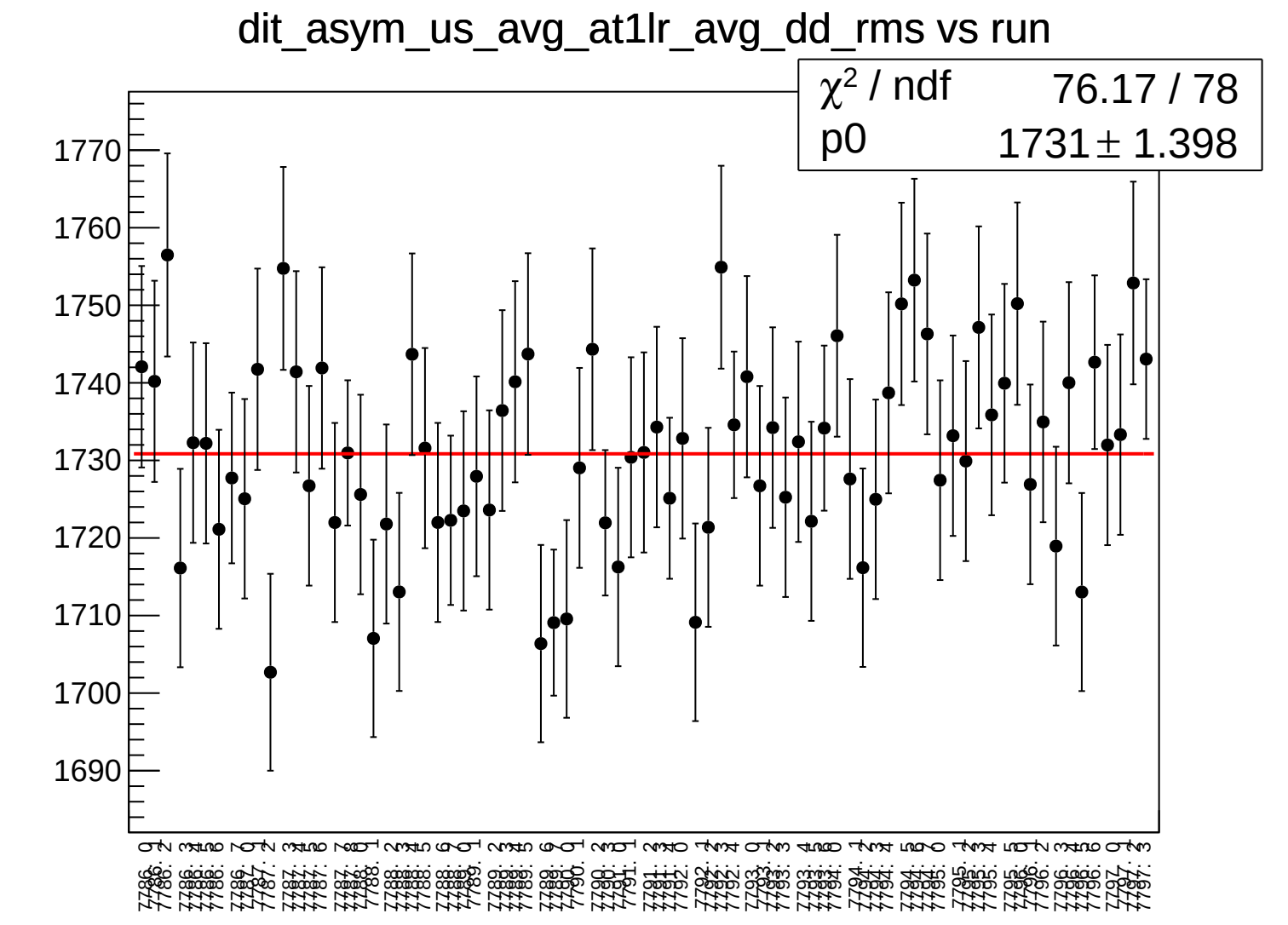

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.93 / 78
p0 599.2 ± 738.5
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −116.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

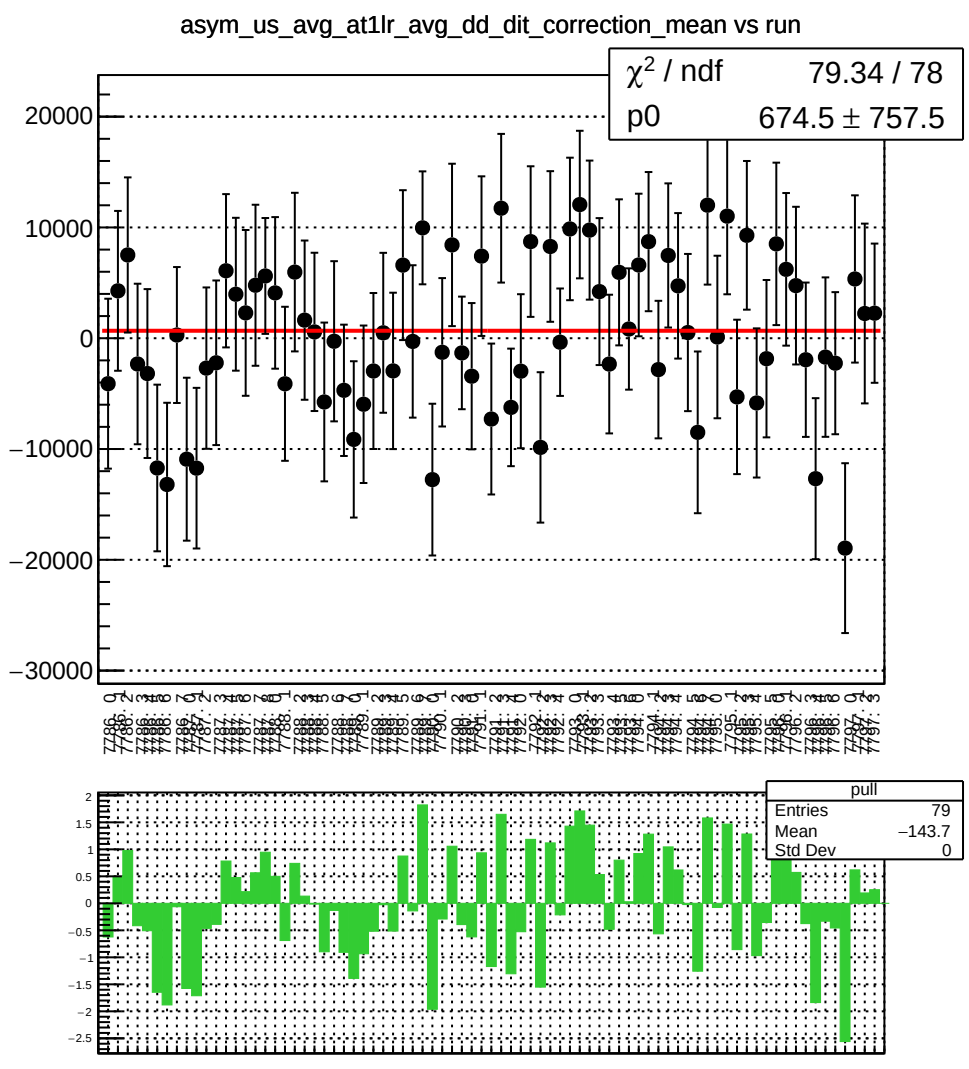

pull1D
Entries 79
Mean −0.02207
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

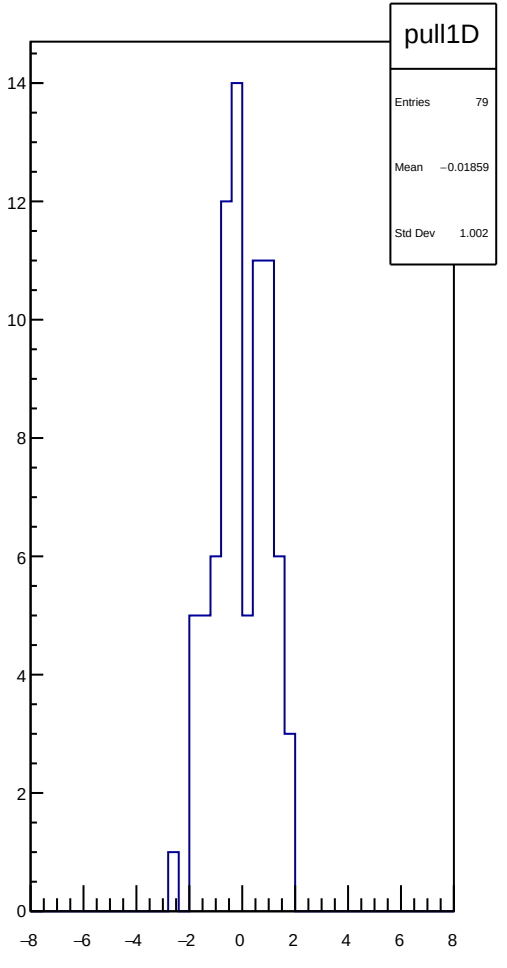

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 9692 / 78
p0 644.7 ± 0.5222
750
700
650
600
550
500
450

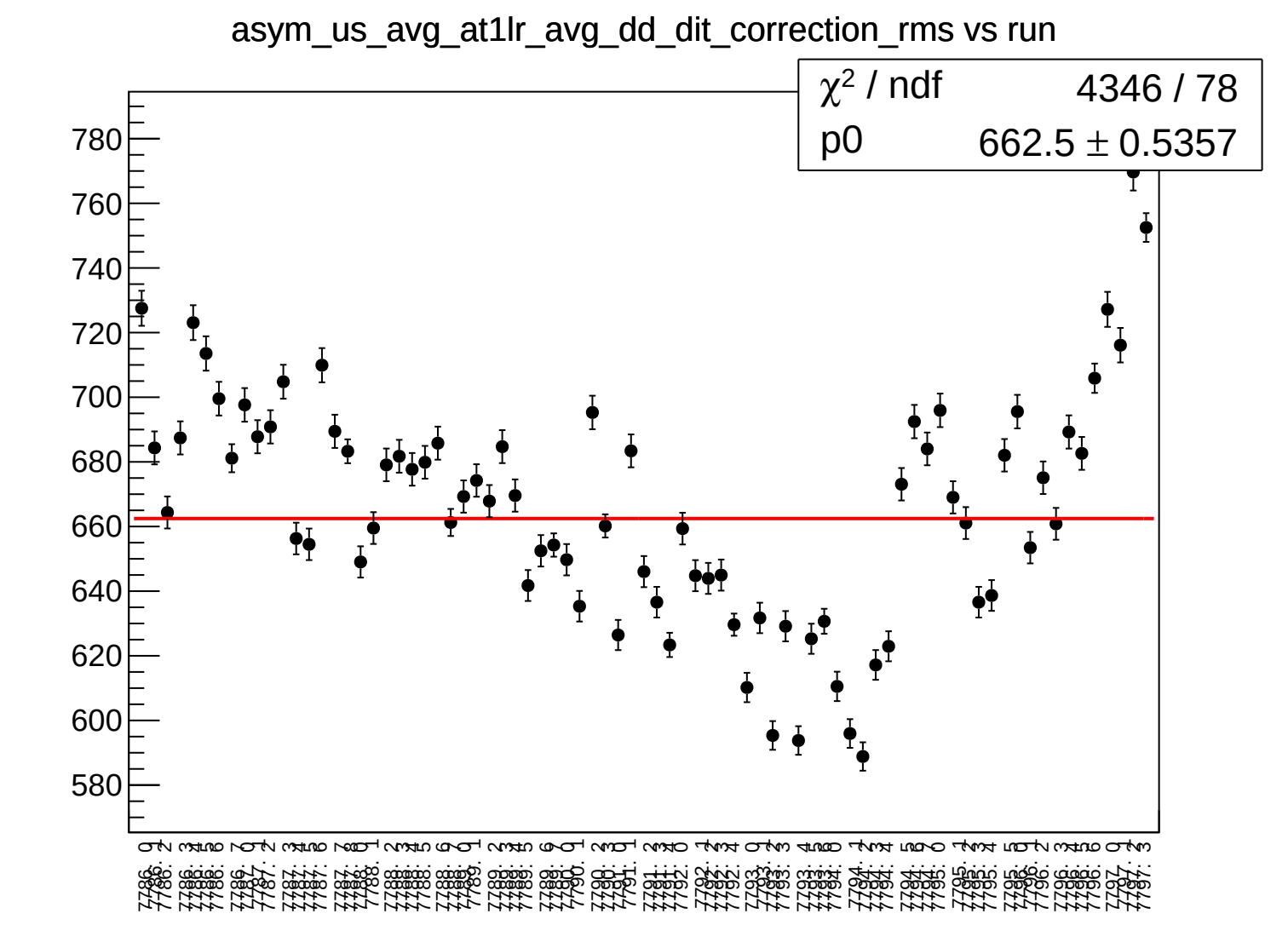

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 66.67 / 78
p0 2790 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −192.6
Std Dev 0
2
1
0
−1
−2
−3

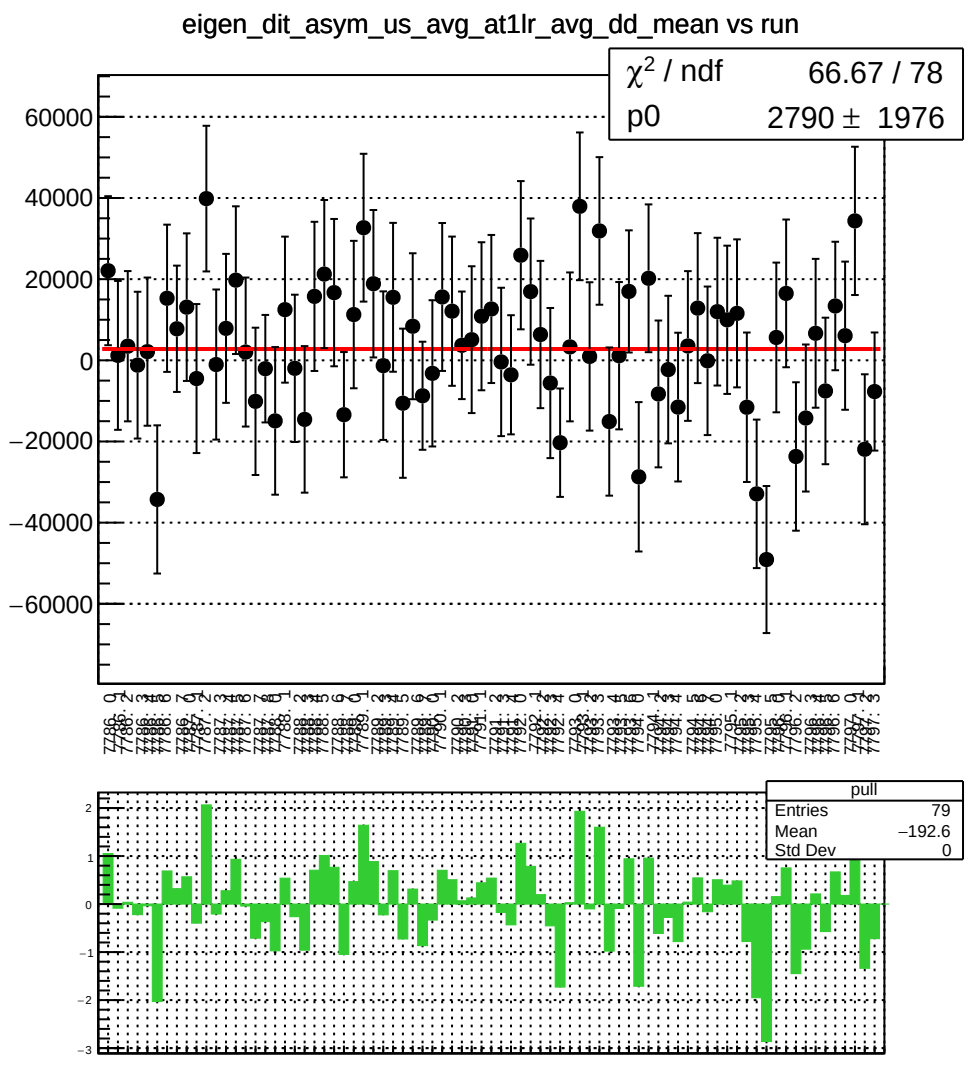

pull1D
Entries 79
Mean 0.01417
Std Dev 0.9185
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

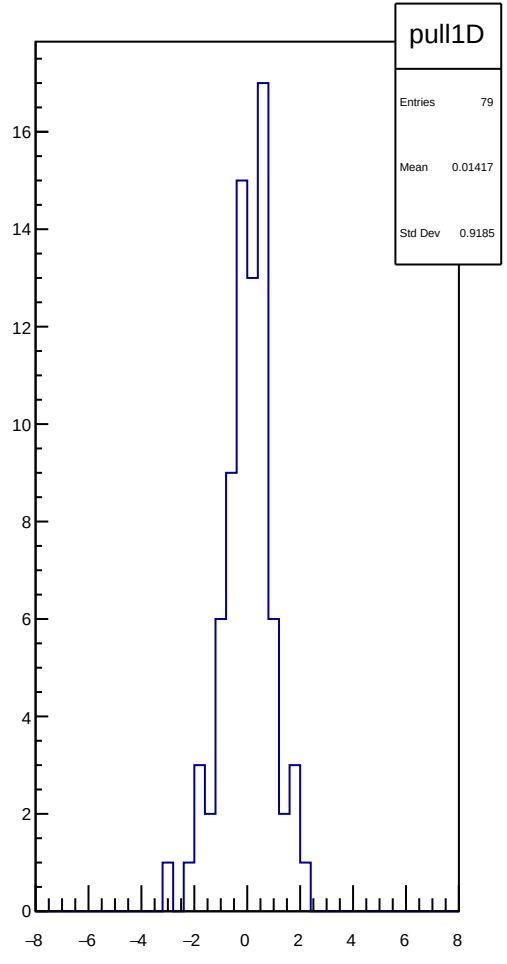

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 76.17 / 78
p0 1731 ± 1.398
1770
1760
1750
1740
1730
1720
1710
1700
1690

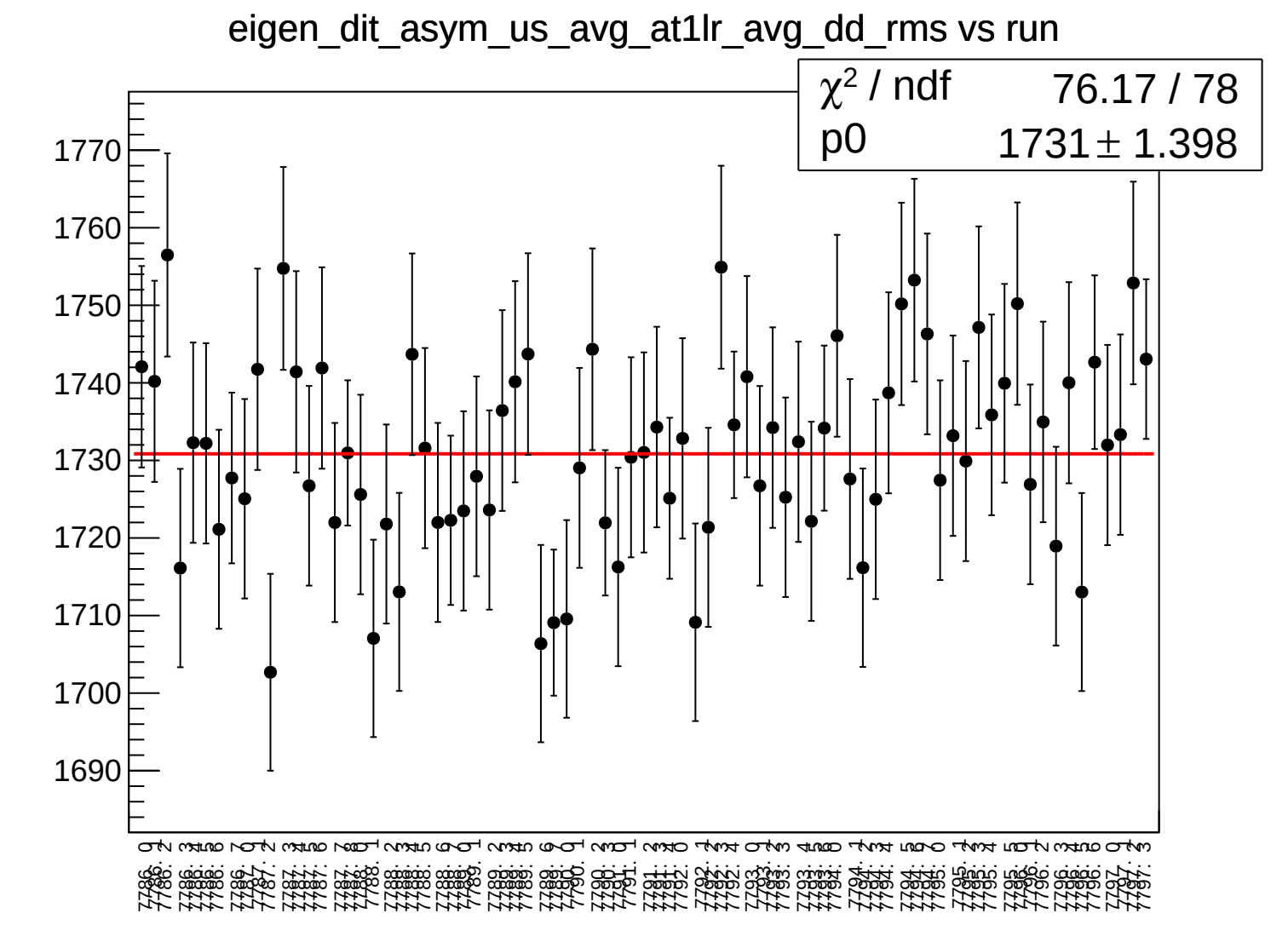

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 79.34 / 78
p0 674.5 ± 757.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −143.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

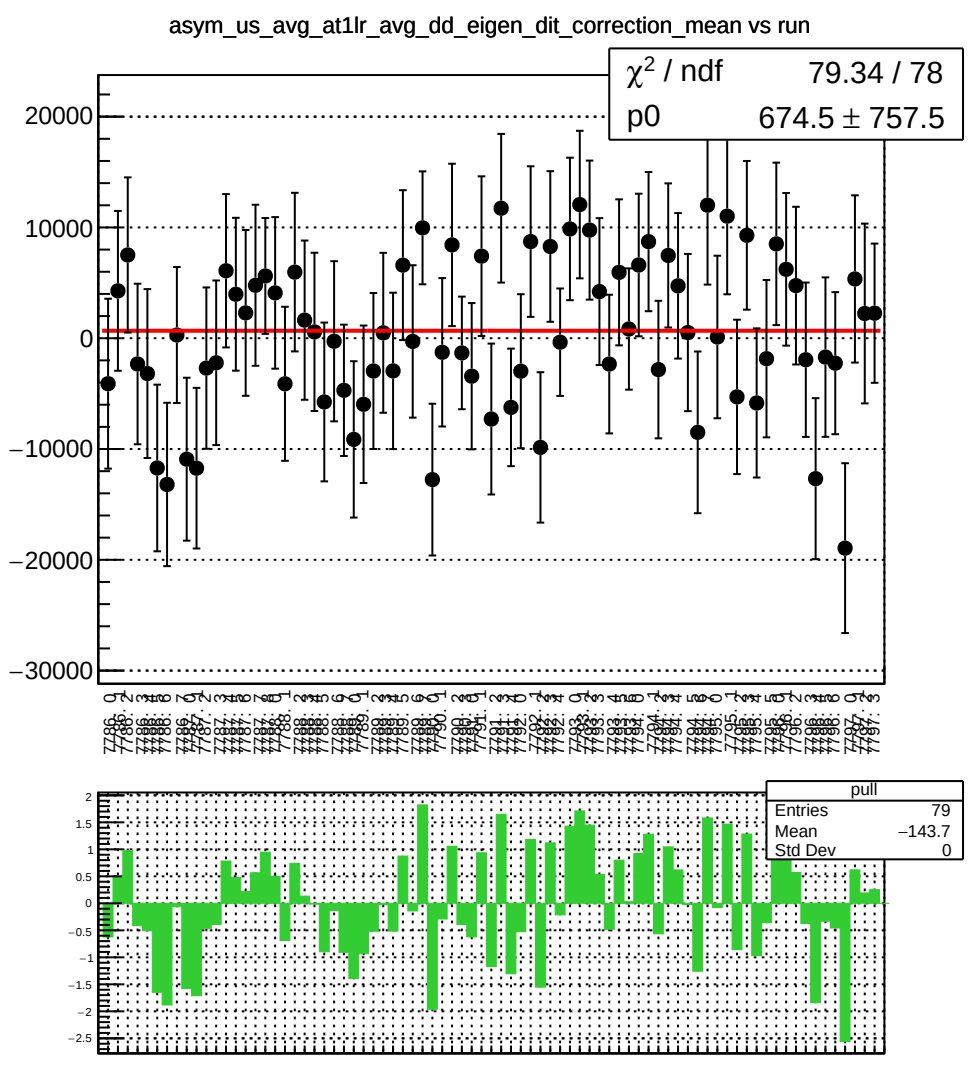

pull1D
Entries 79
Mean −0.01859
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

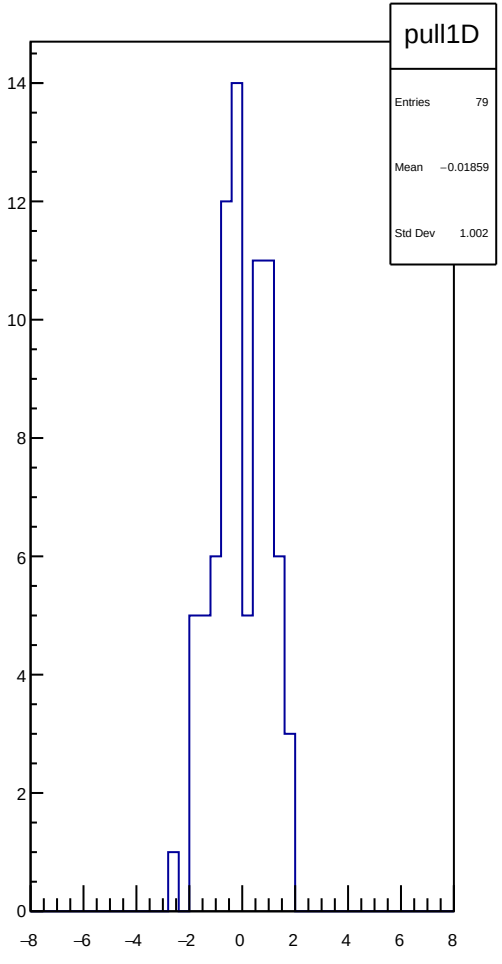

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 4346 / 78
p0 662.5 ± 0.5357
780
760
740
720
700
680
660
640
620
600
580

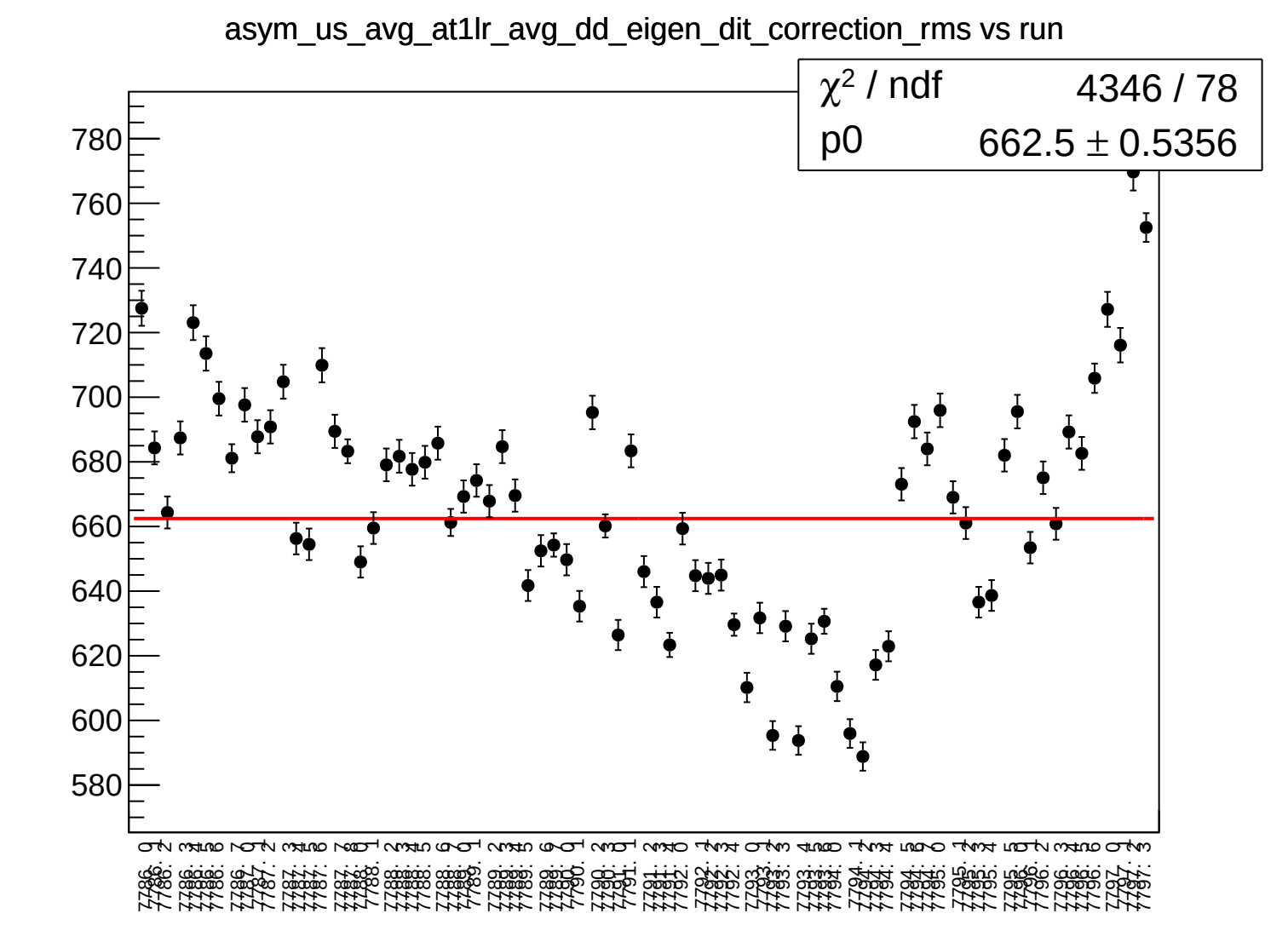

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 66.67 / 78
p0 2790 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −192.6
Std Dev 0
2
1
0
−1
−2
−3

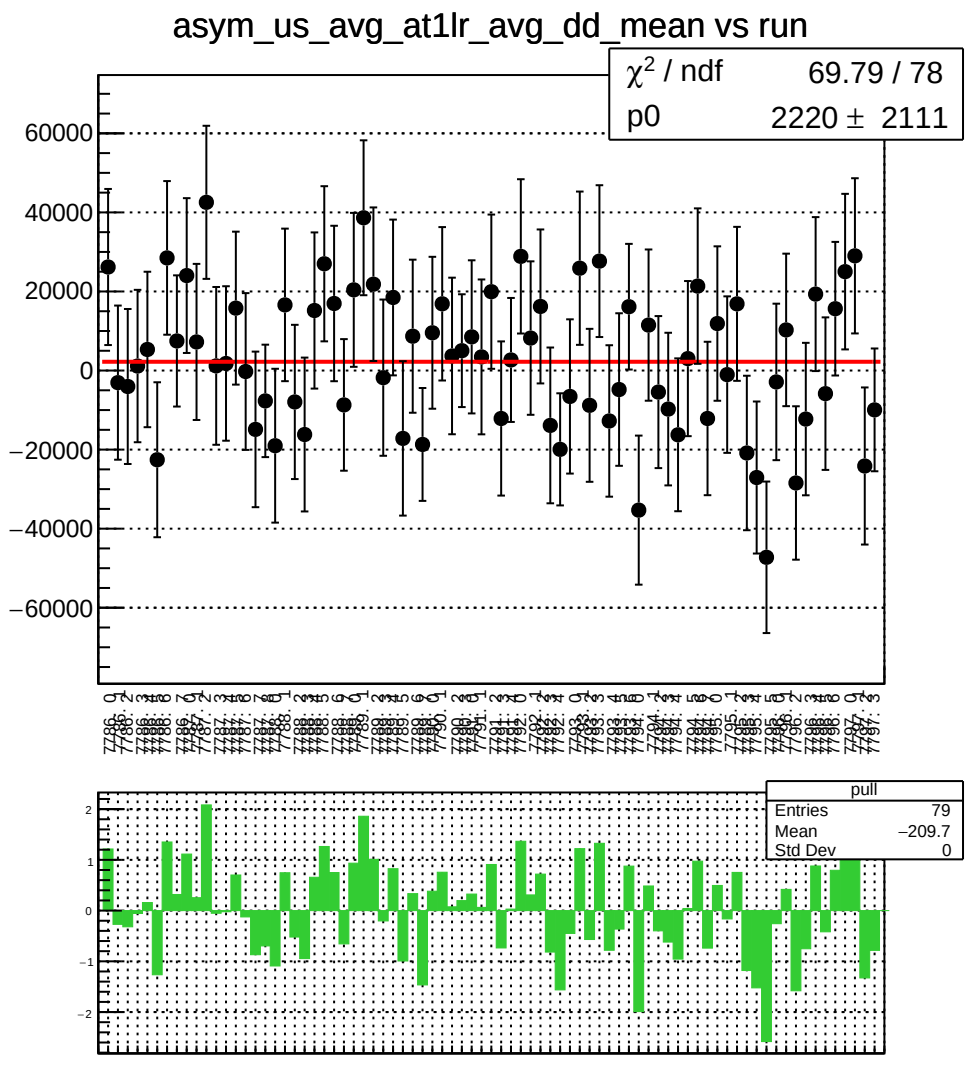

pull1D
Entries 79
Mean 0.01417
Std Dev 0.9185
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

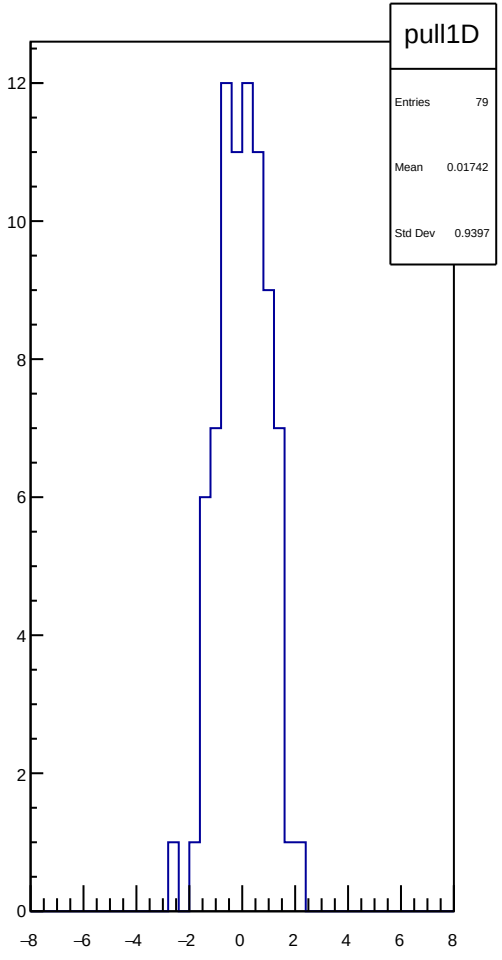

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 76.17 / 78
p0 1731 ± 1.398
1770
1760
1750
1740
1730
1720
1710
1700
1690

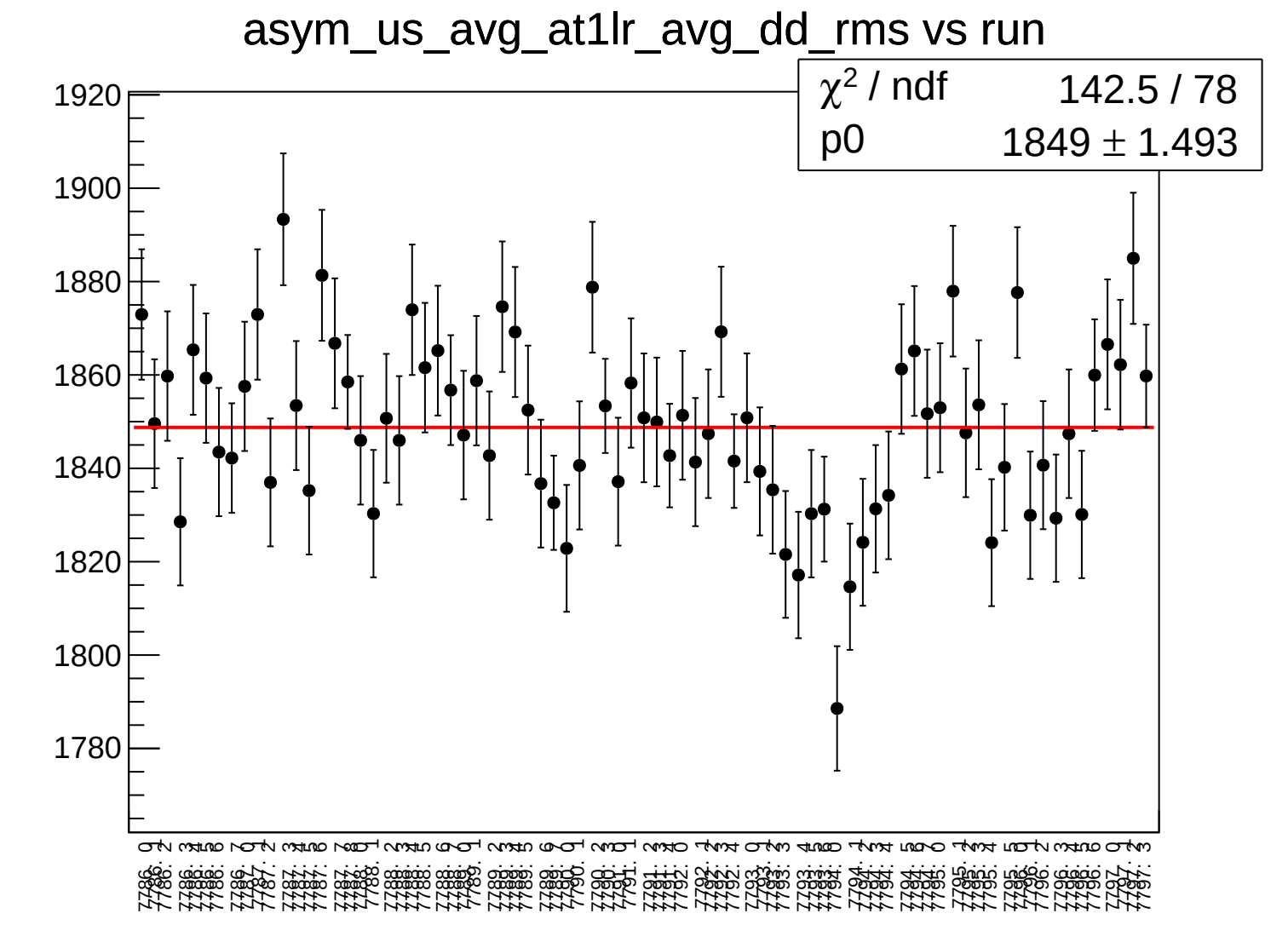

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.34 / 78
p0 674.5 ± 757.5
pull
Entries 79
Mean −143.7
Std Dev 0

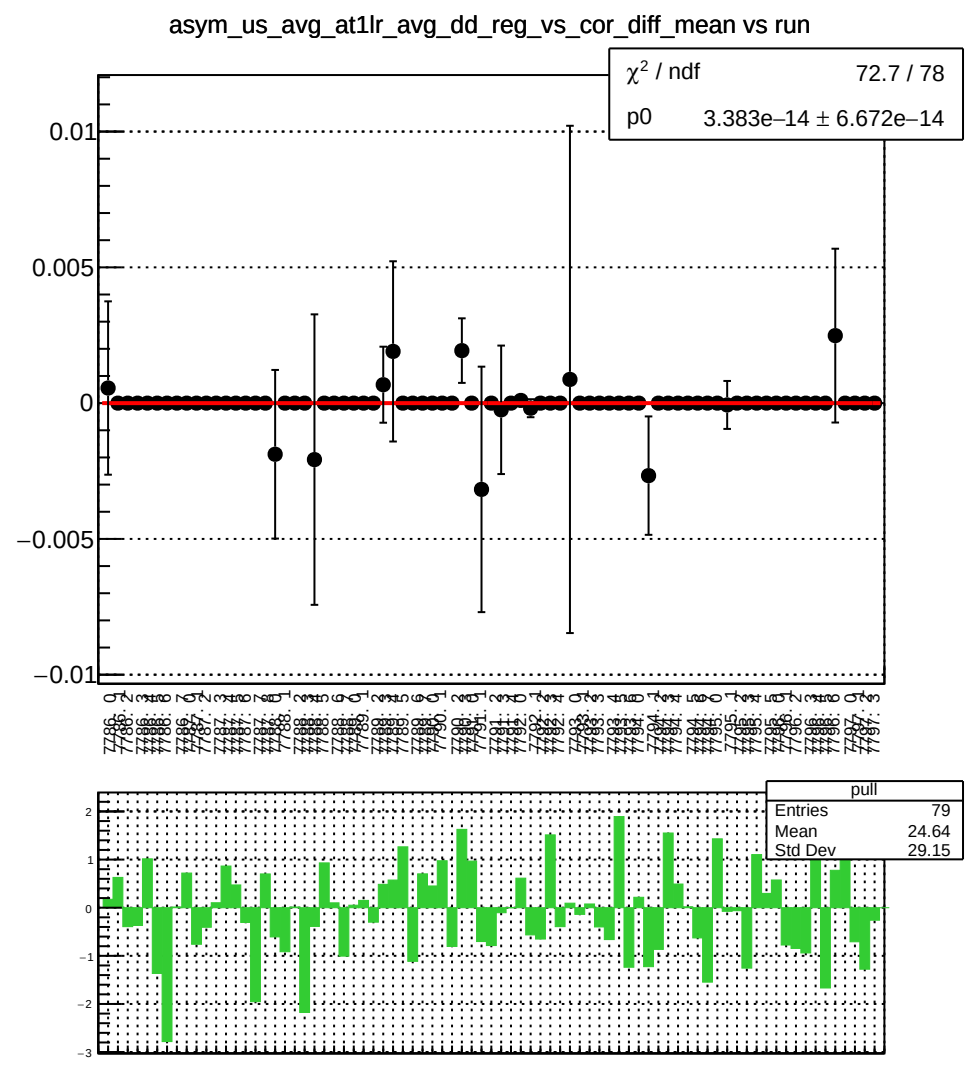

pull1D
Entries 79
Mean −0.01859
Std Dev 1.002

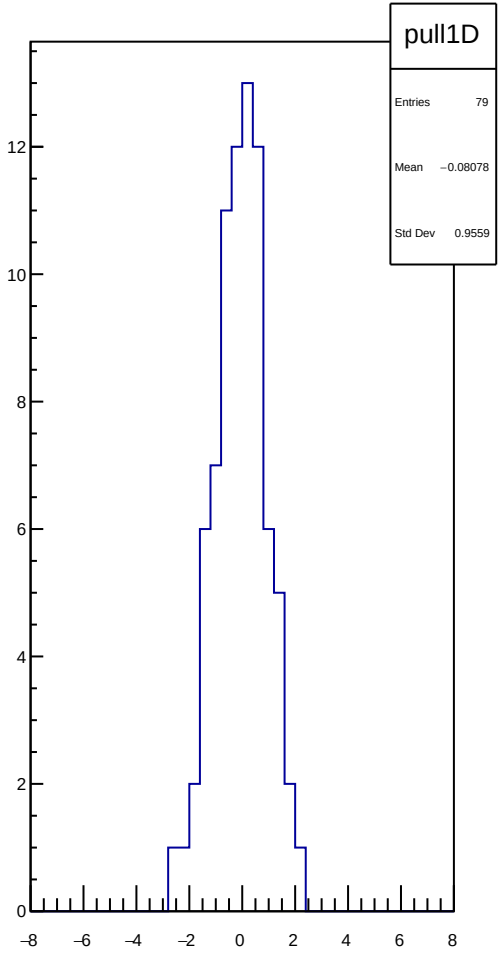

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4346 / 78
p0 662.5 ± 0.5356
780
760
740
720
700
680
660
640
620
600
580

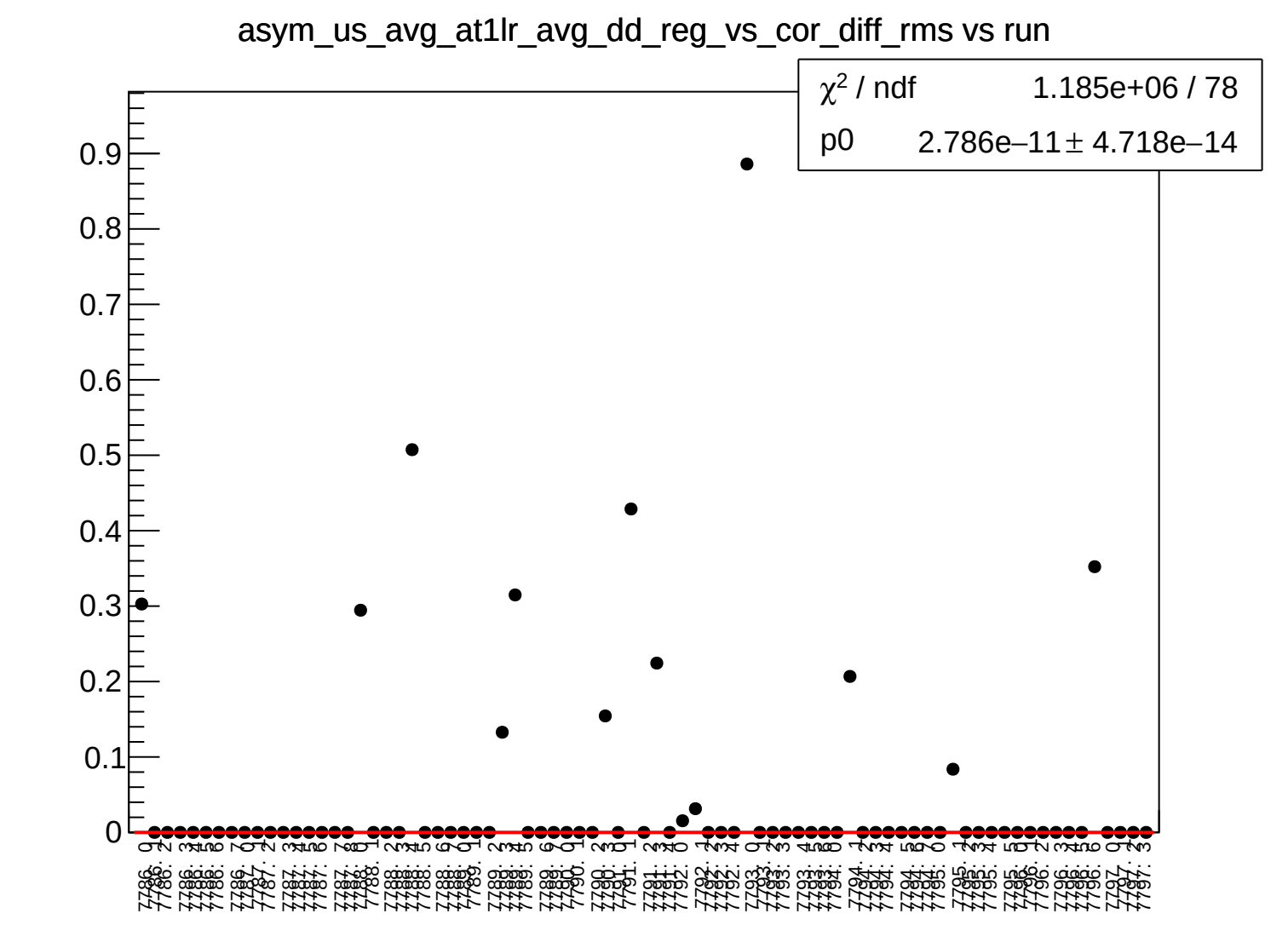

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 69.79 / 78
p0 2220 ± 2111
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −209.7
Std Dev 0
2
1
0
−1
−2

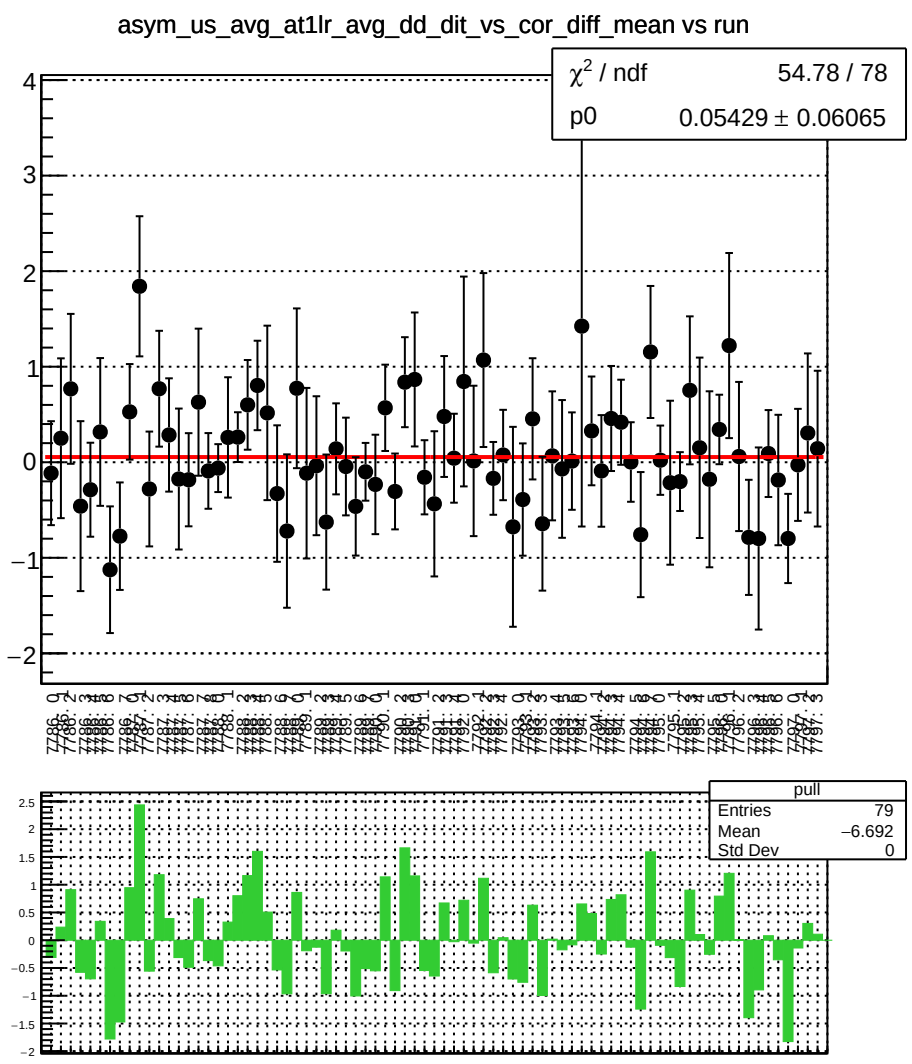

pull1D
Entries 79
Mean 0.01742
Std Dev 0.9397
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

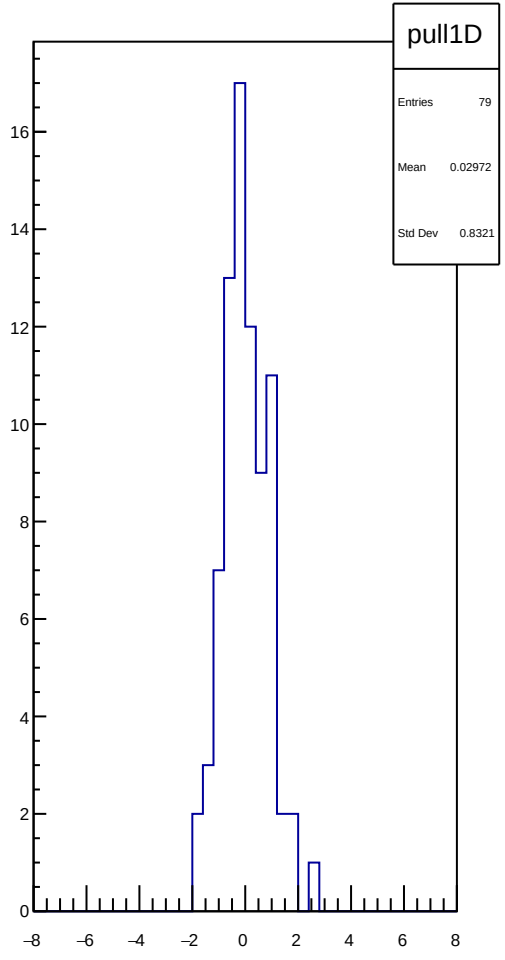

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 142.5 / 78
p0 1849 ± 1.493
1920
1900
1880
1860
1840
1820
1800
1780

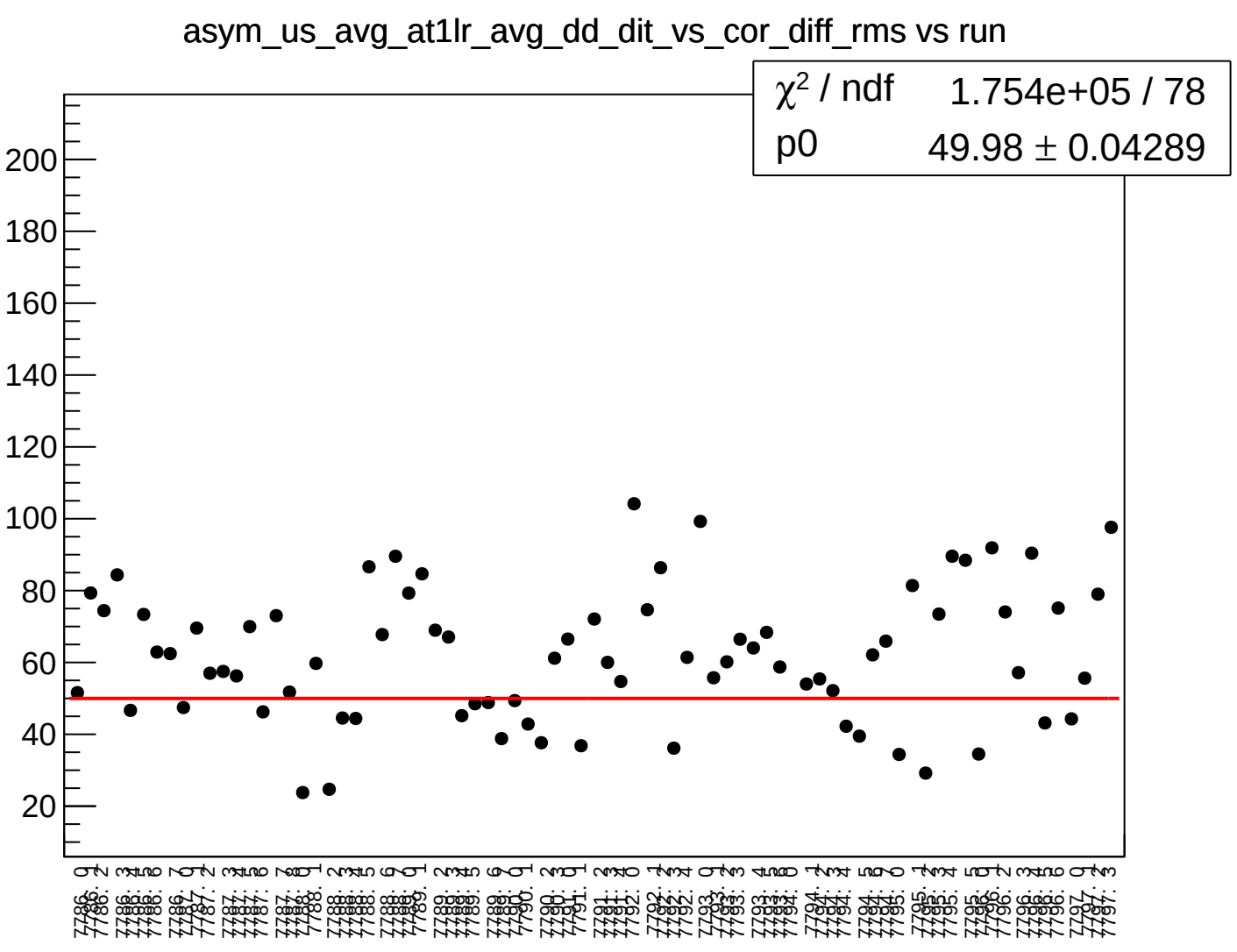

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.7 / 78
p0 3.383e−14 ± 6.672e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 79
Mean 24.64
Std Dev 29.15
2
1
0
−1
−2
−3

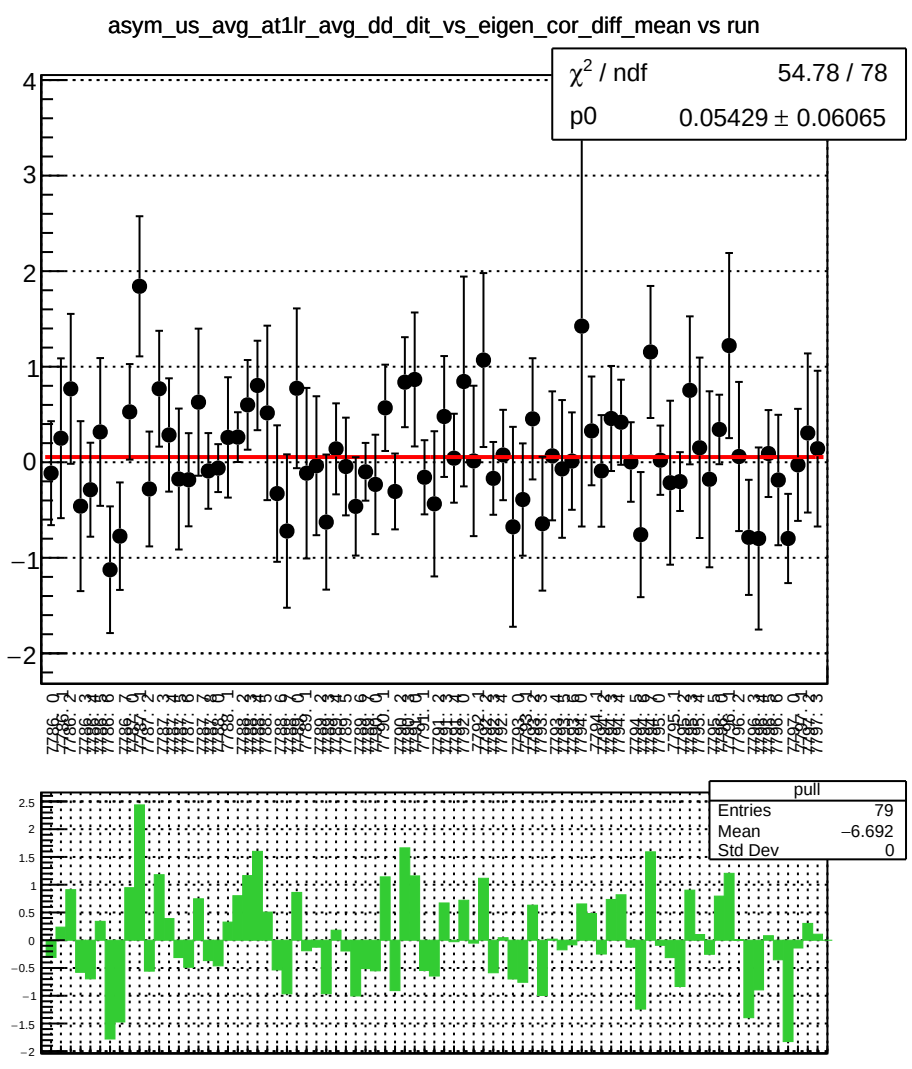

pull1D
Entries 79
Mean −0.08078
Std Dev 0.9559
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

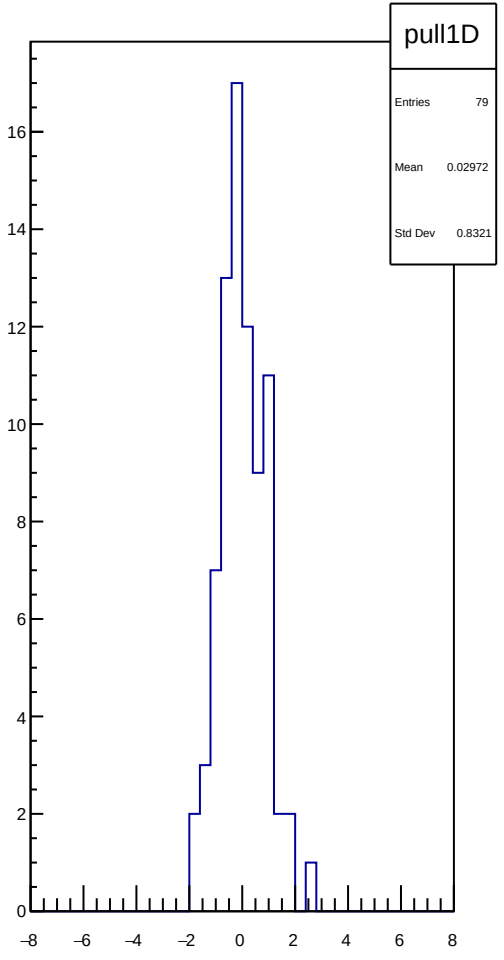

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.185e+06 / 78
p0 2.786e−11 ± 4.718e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

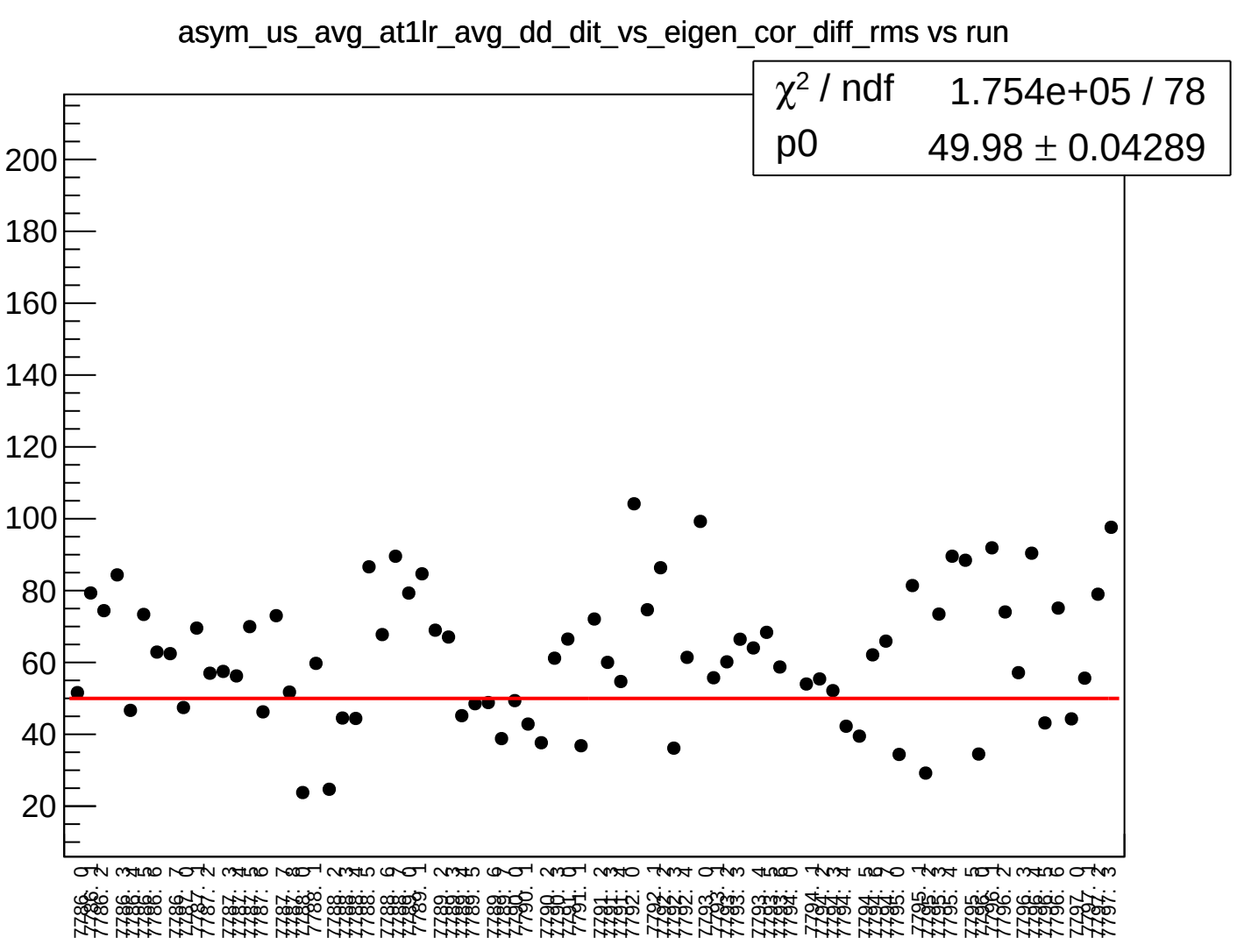

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 54.78 / 78
p0 0.05429 ± 0.06065
pull
Entries 79
Mean −6.692
Std Dev 0

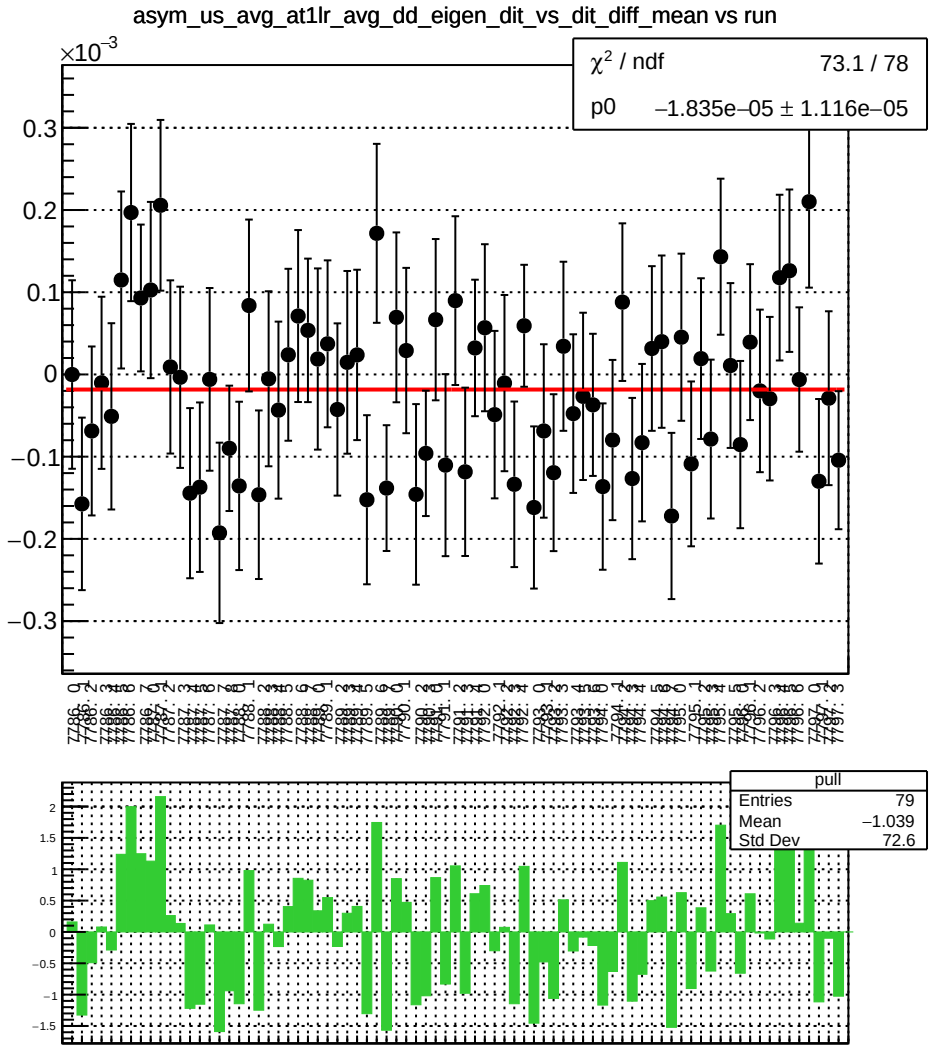

pull1D
Entries 79
Mean 0.02972
Std Dev 0.8321

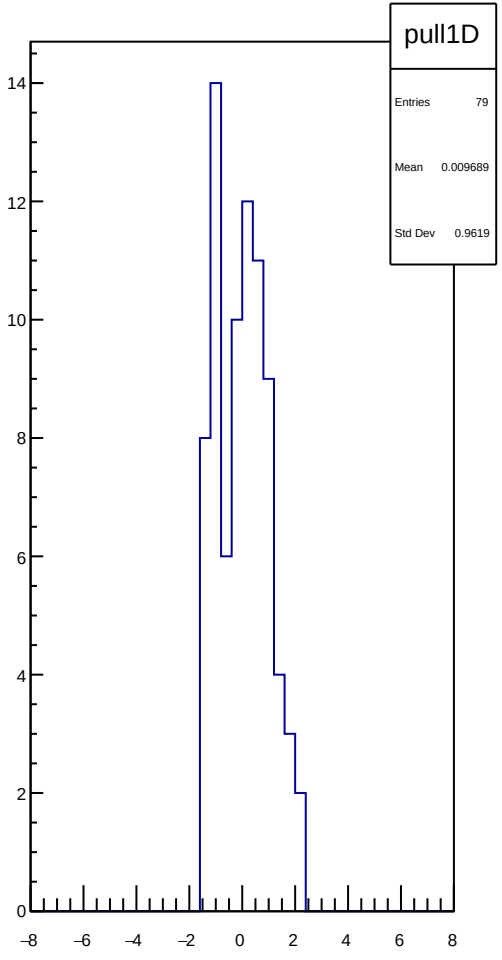

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.754e+05 / 78
p0 49.98 ± 0.04289
200
180
160
140
120
100
80
60
40
20

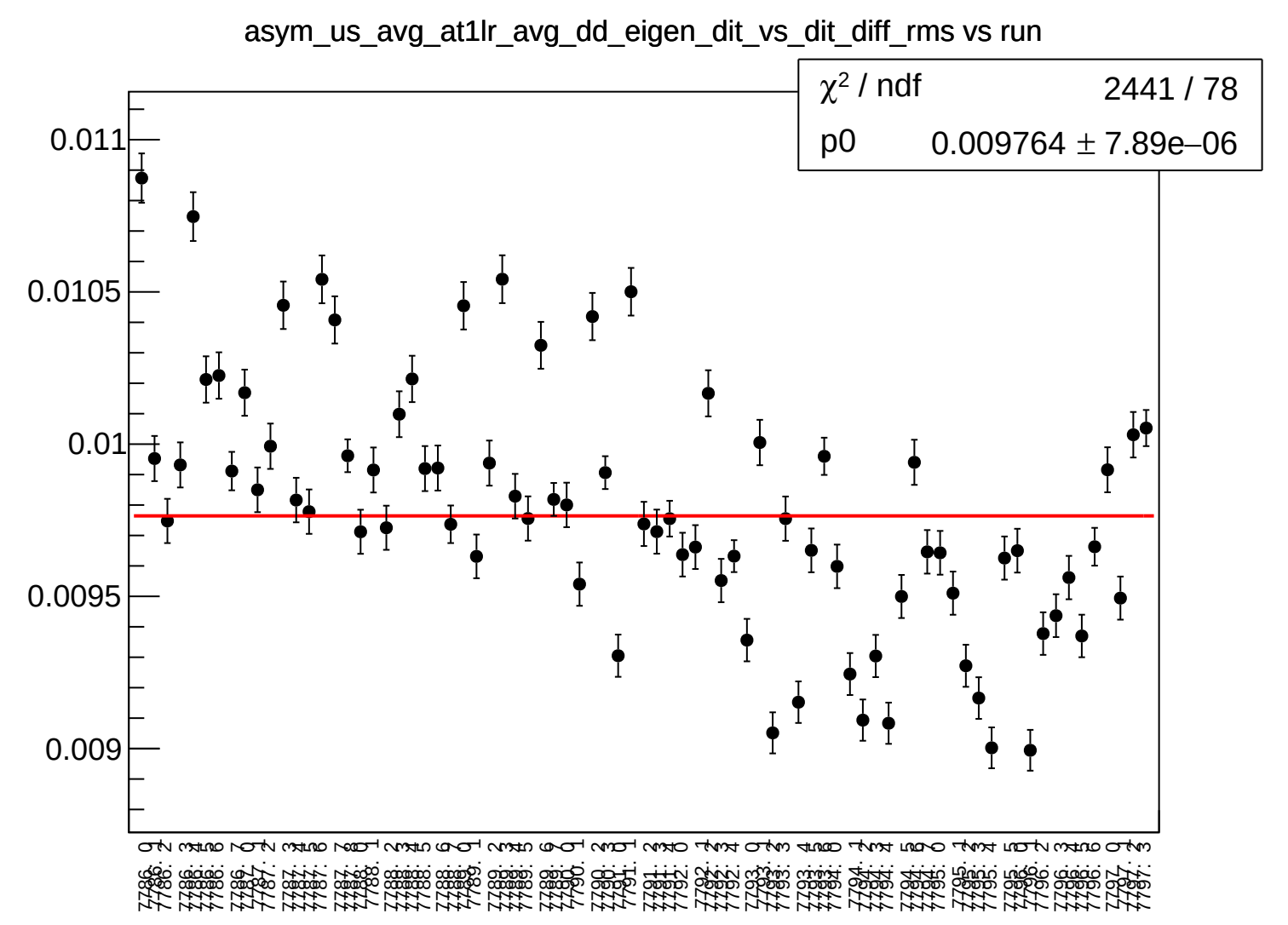

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.78 / 78
p0 0.05429 ± 0.06065
pull
Entries 79
Mean −6.692
Std Dev 0

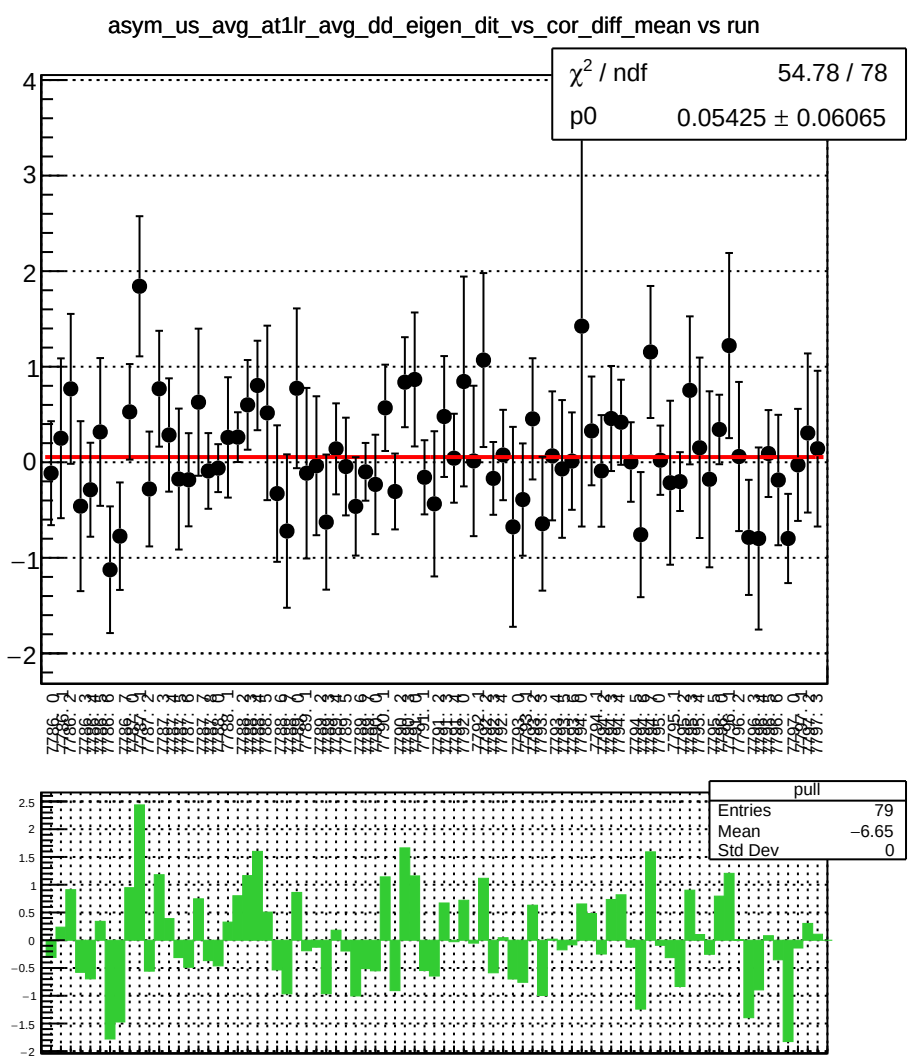

pull1D
Entries 79
Mean 0.02972
Std Dev 0.8321

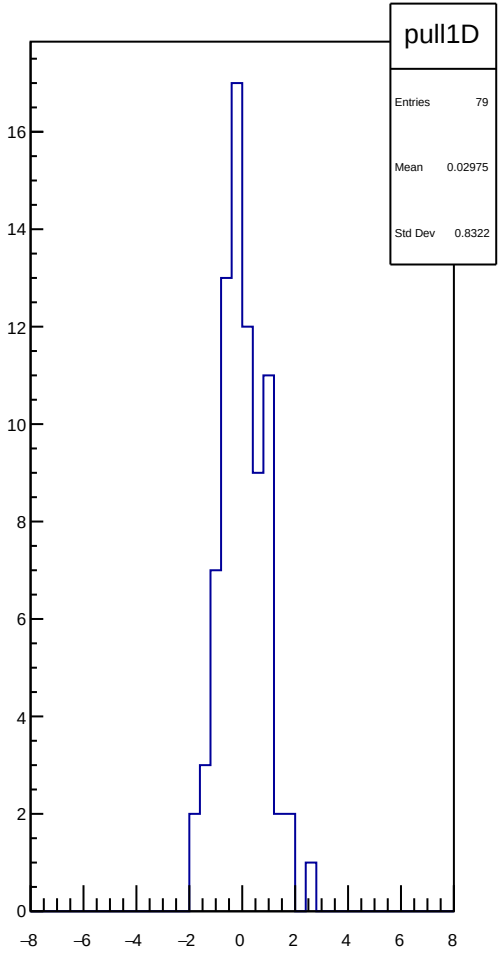

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.754e+05 / 78
p0 49.98 ± 0.04289
200
180
160
140
120
100
80
60
40
20

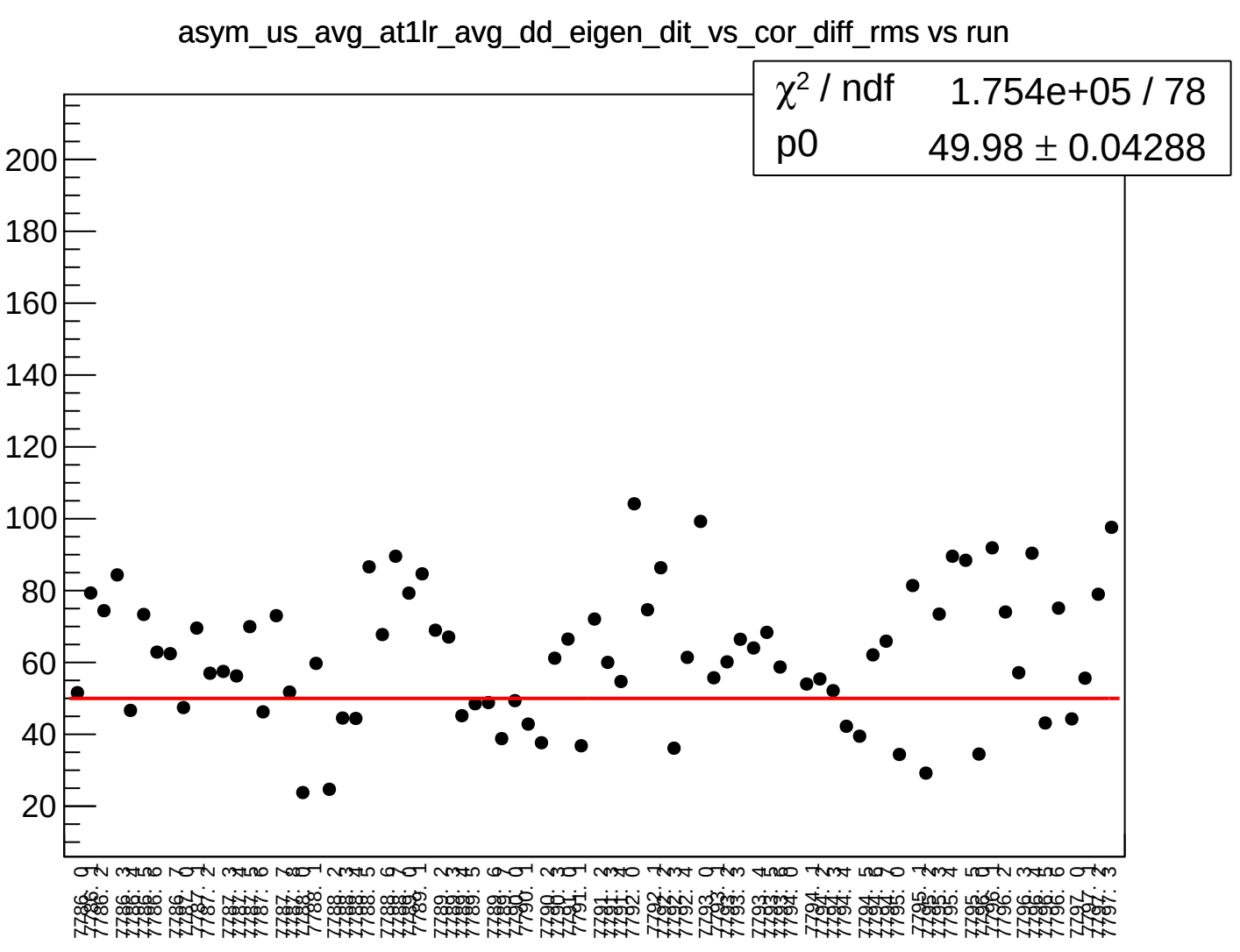

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.1 / 78
p0 −1.835e−05 ± 1.116e−05
pull
Entries 79
Mean −1.039
Std Dev 72.6

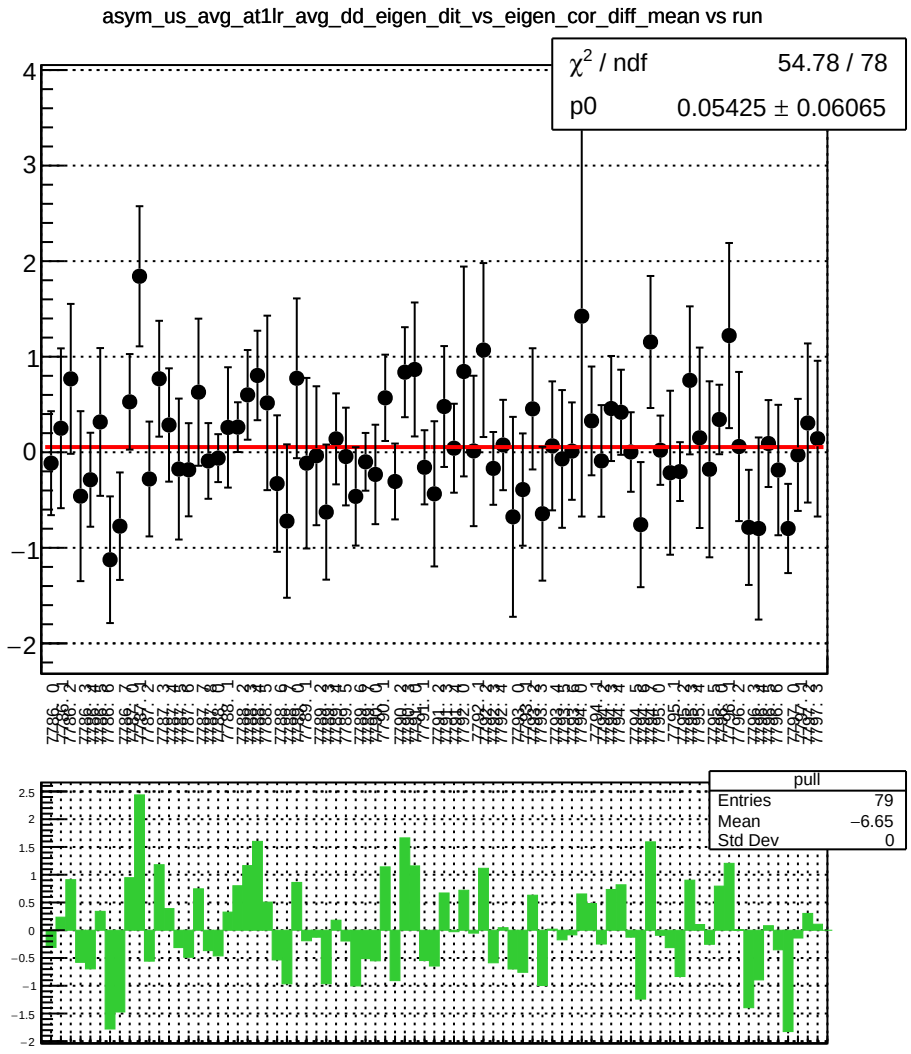

pull1D
Entries 79
Mean 0.009689
Std Dev 0.9619

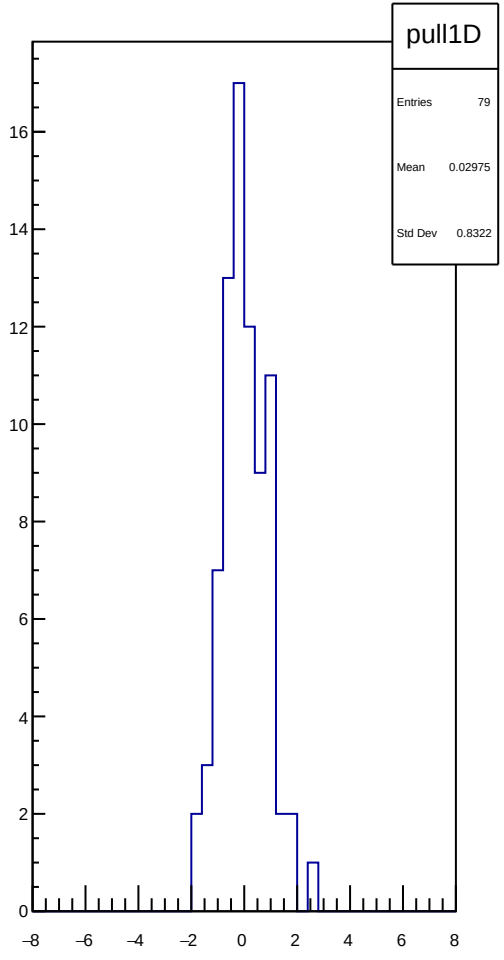

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2441 / 78
p0 0.009764 ± 7.89e−06
0.011
0.0105
0.01
0.0095
0.009

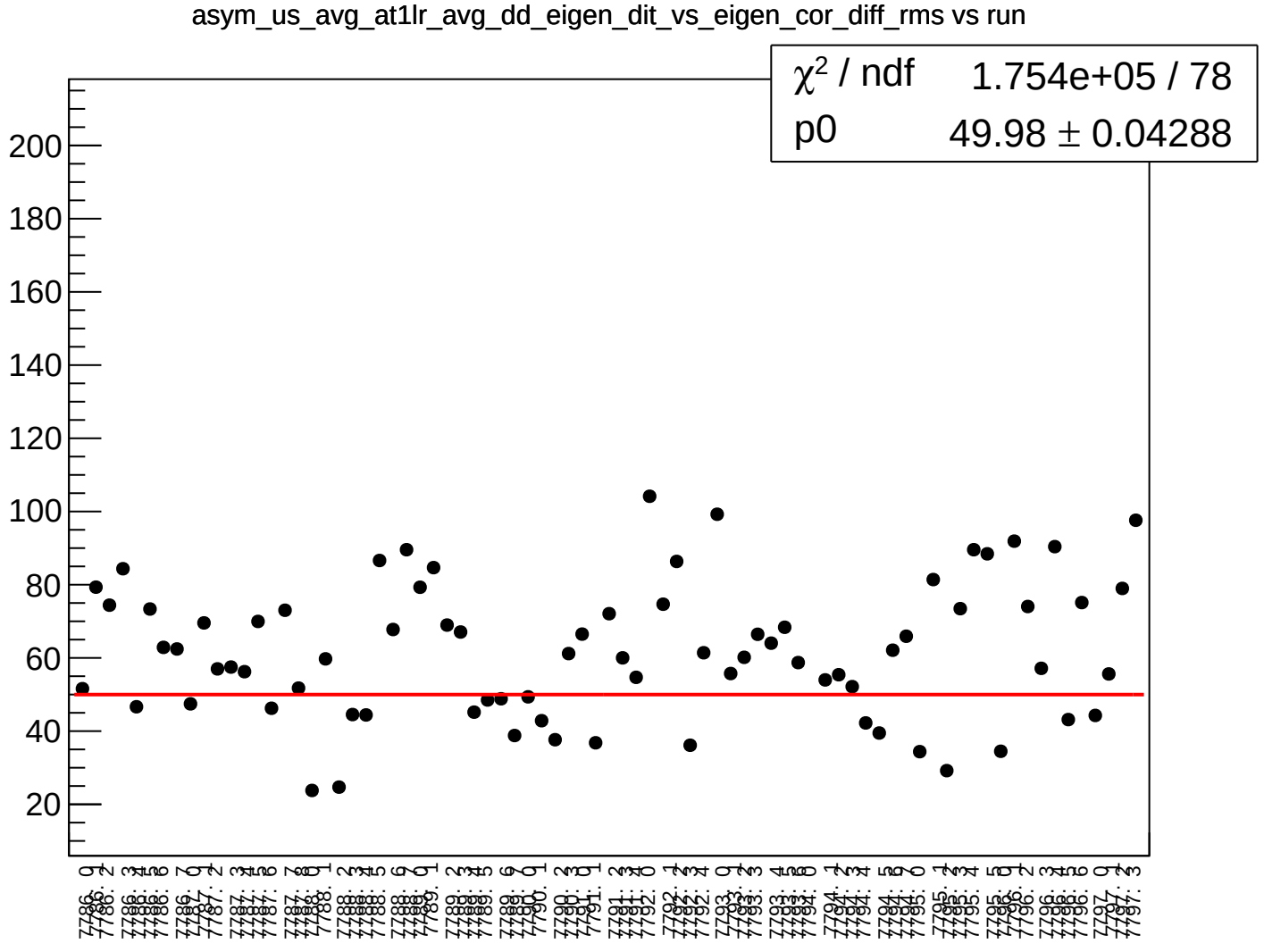

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.78 / 78
p0 0.05425 ± 0.06065
pull
Entries 79
Mean −6.65
Std Dev 0

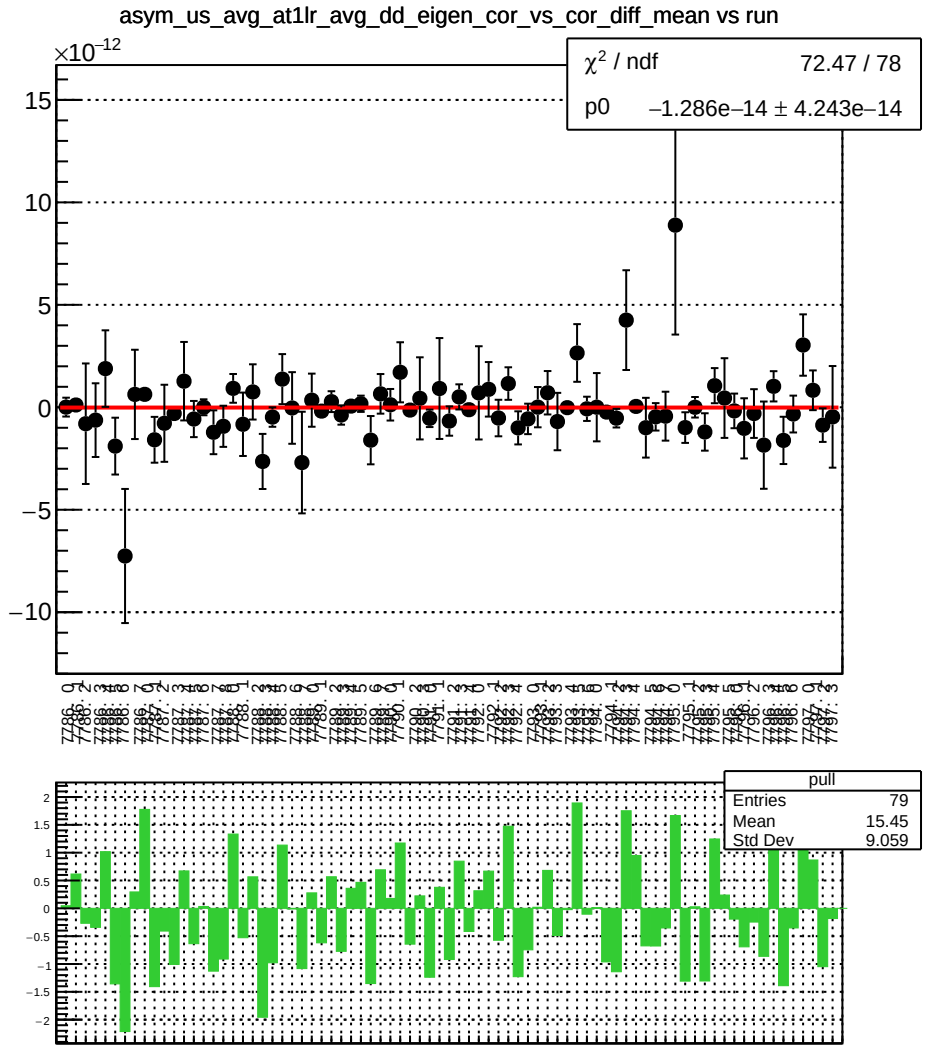

pull1D
Entries 79
Mean 0.02975
Std Dev 0.8322

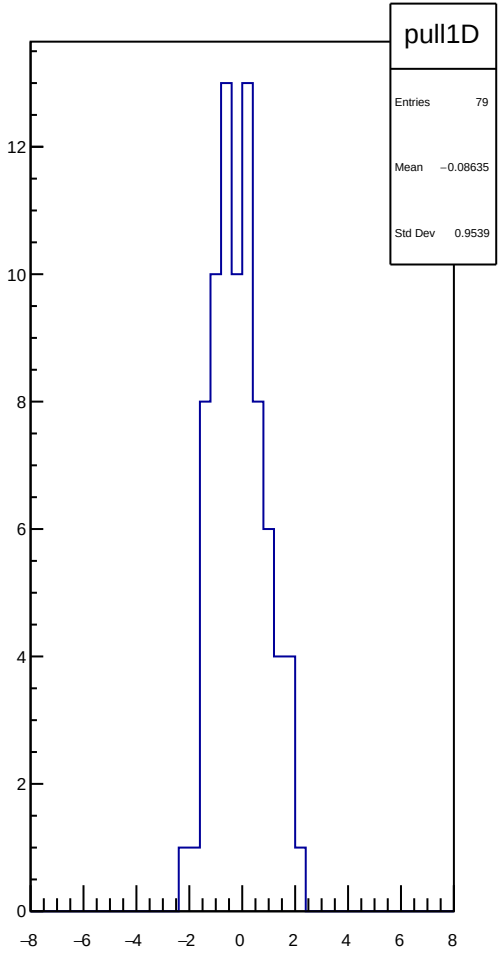

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.754e+05 / 78
p0 49.98 ± 0.04288
200
180
160
140
120
100
80
60
40
20

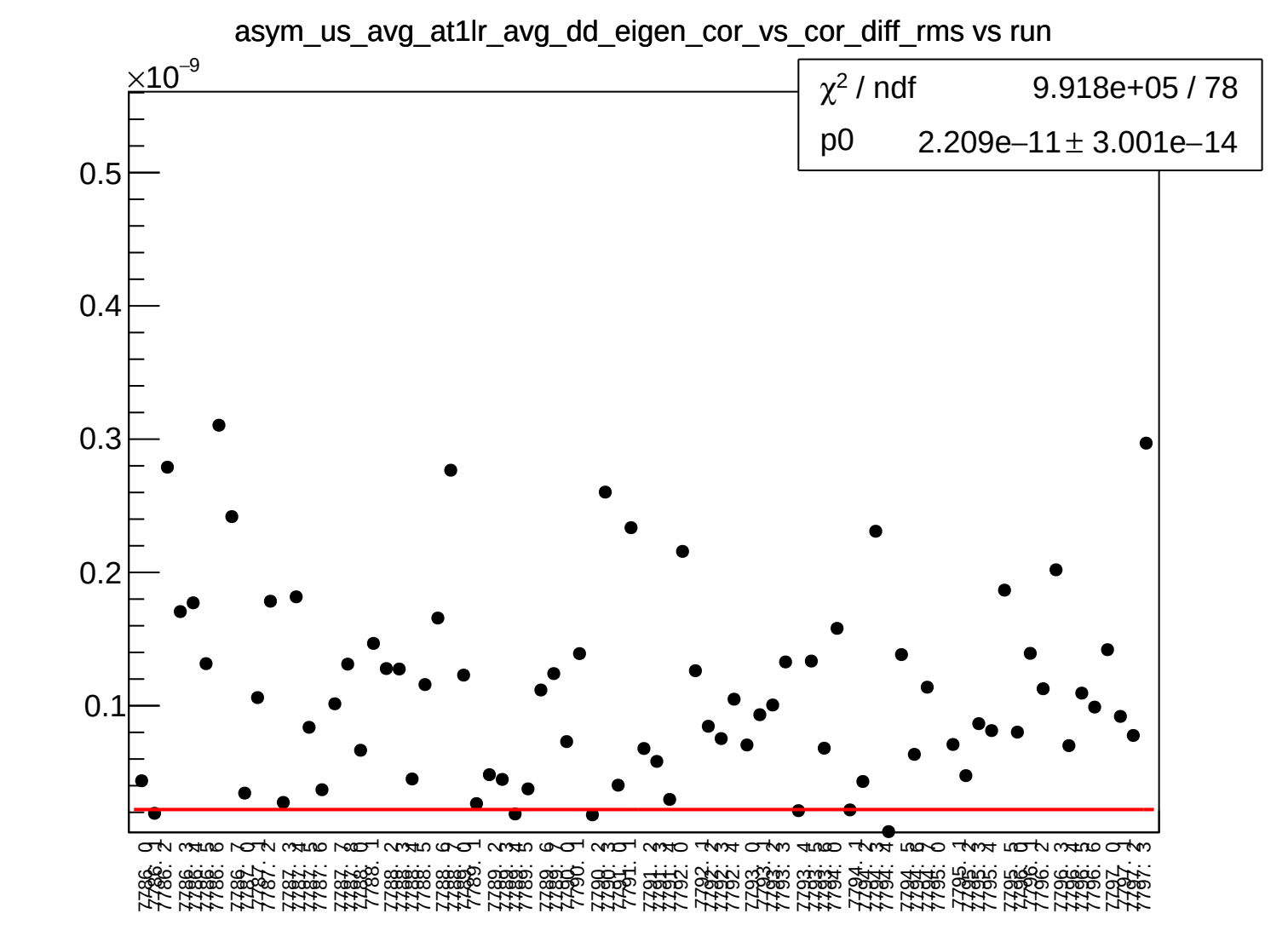

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.78 / 78
p0 0.05425 ± 0.06065
pull
Entries 79
Mean −6.65
Std Dev 0

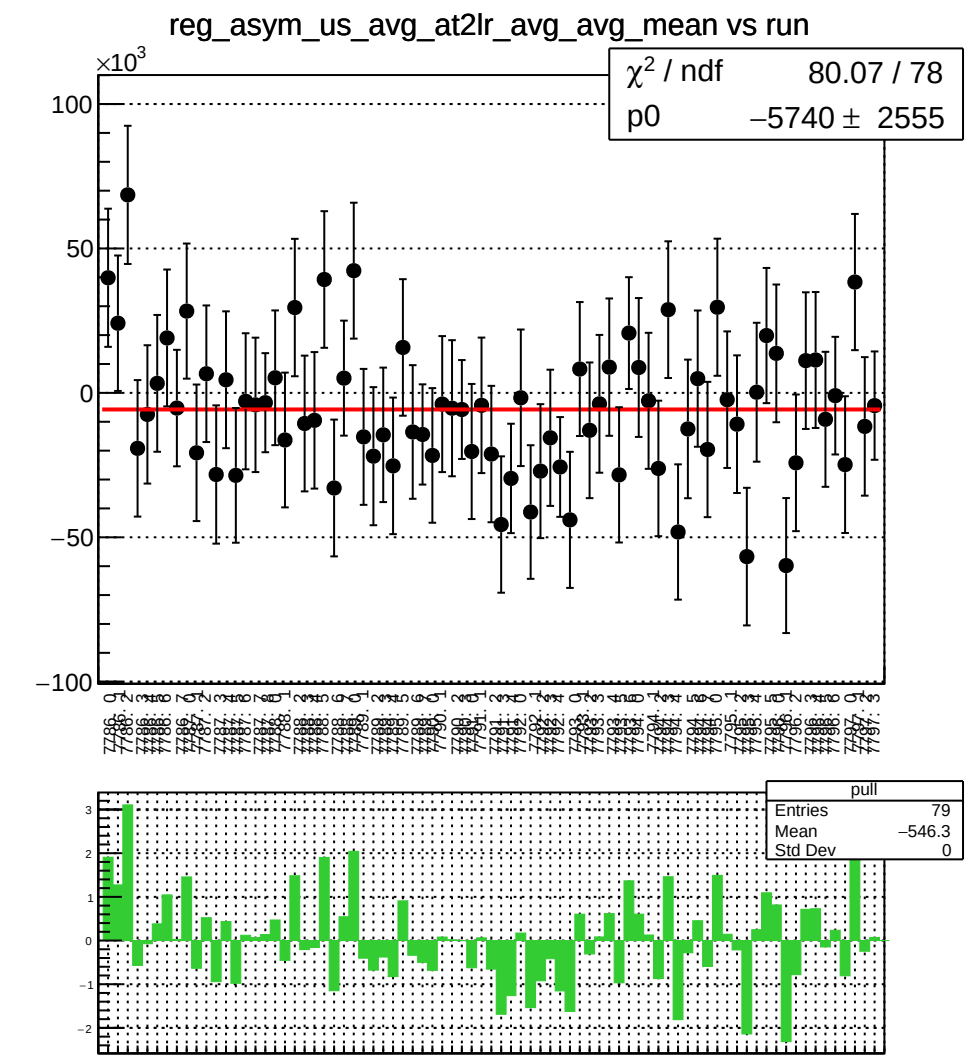

pull1D
Entries 79
Mean 0.02975
Std Dev 0.8322

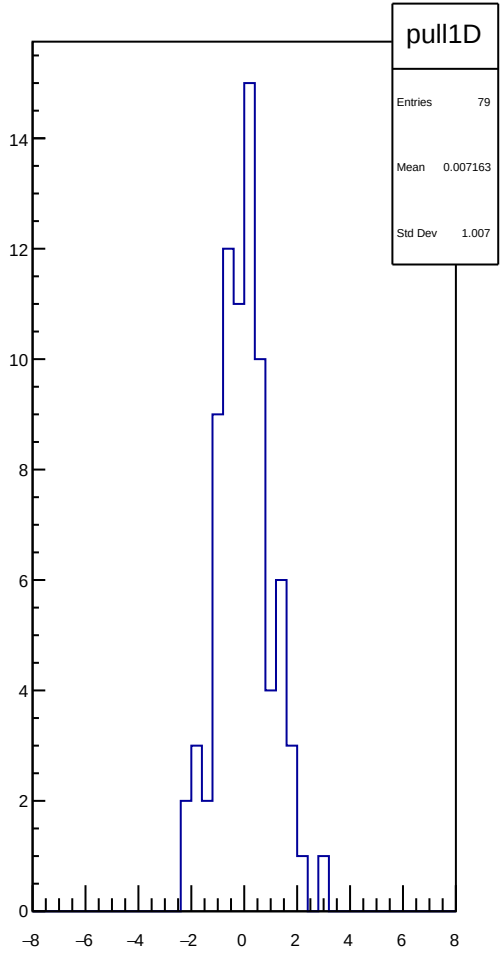

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.754e+05 / 78
p0 49.98 ± 0.04288
200
180
160
140
120
100
80
60
40
20

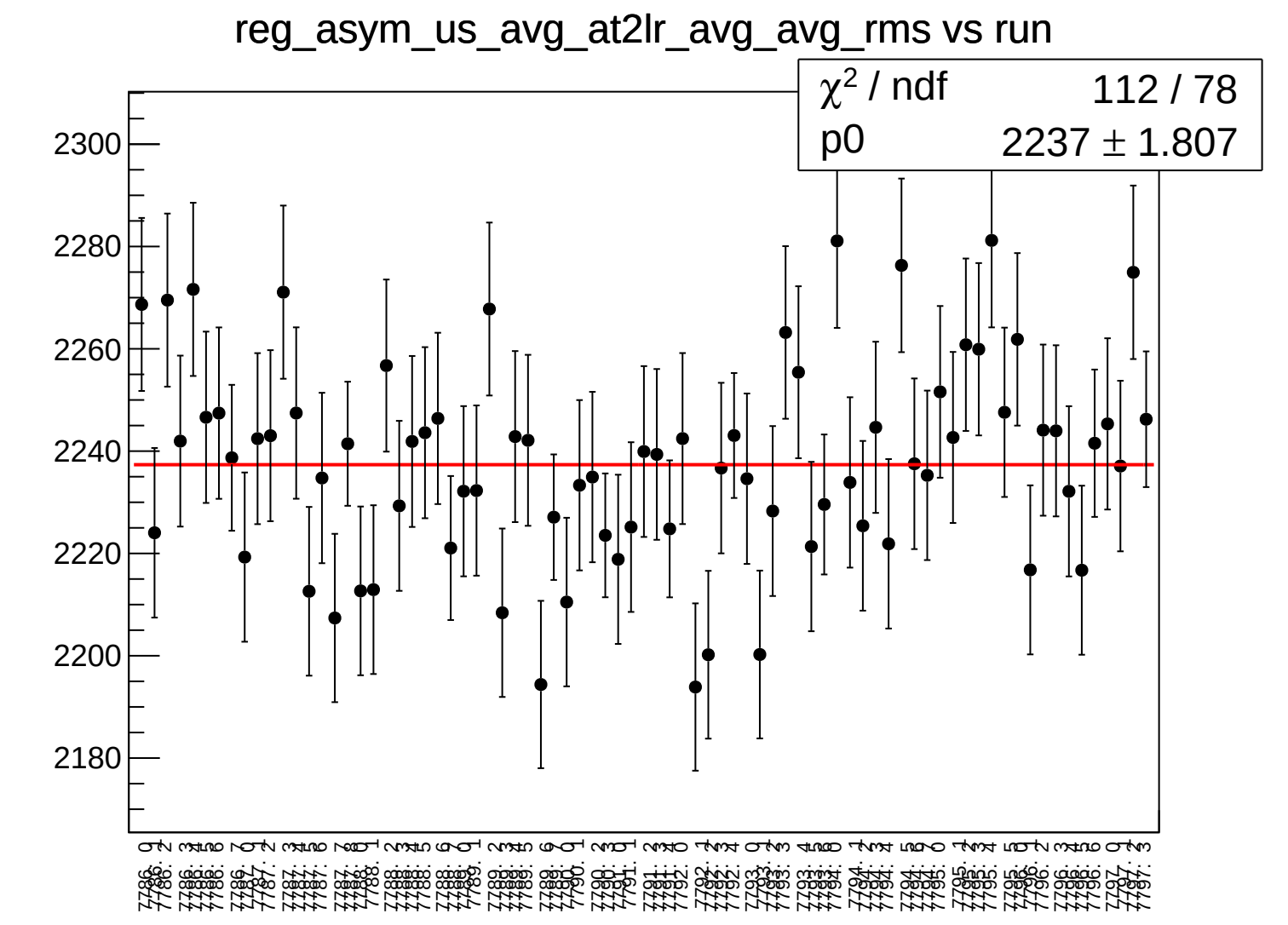

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.47 / 78
p0 −1.286e−14 ± 4.243e−14
pull
Entries 79
Mean 15.45
Std Dev 9.059

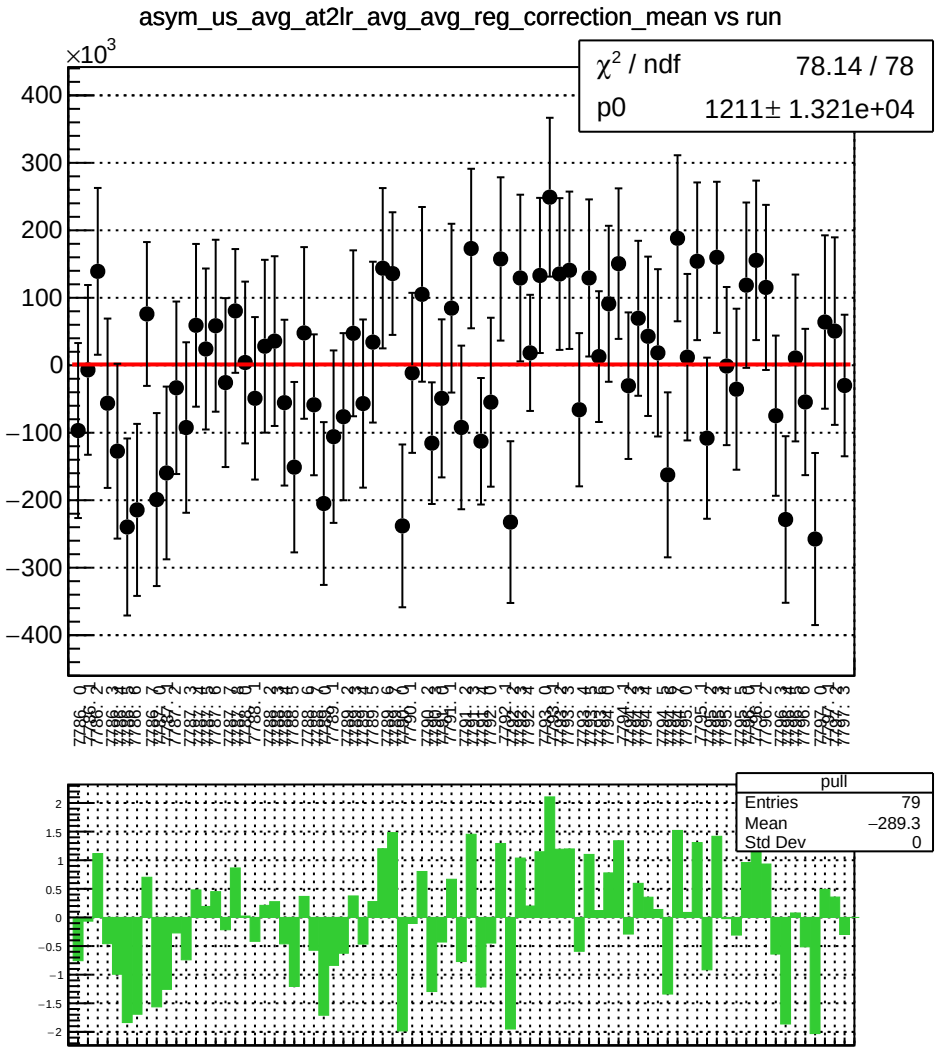

pull1D
Entries 79
Mean −0.08635
Std Dev 0.9539

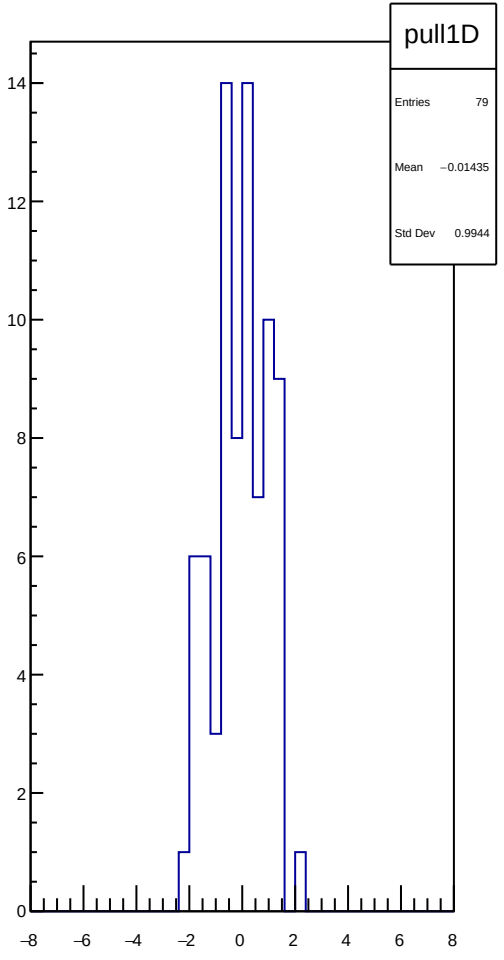

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.918e+05 / 78
p0 2.209e−11 ± 3.001e−14
0.5
0.4
0.3
0.2
0.1

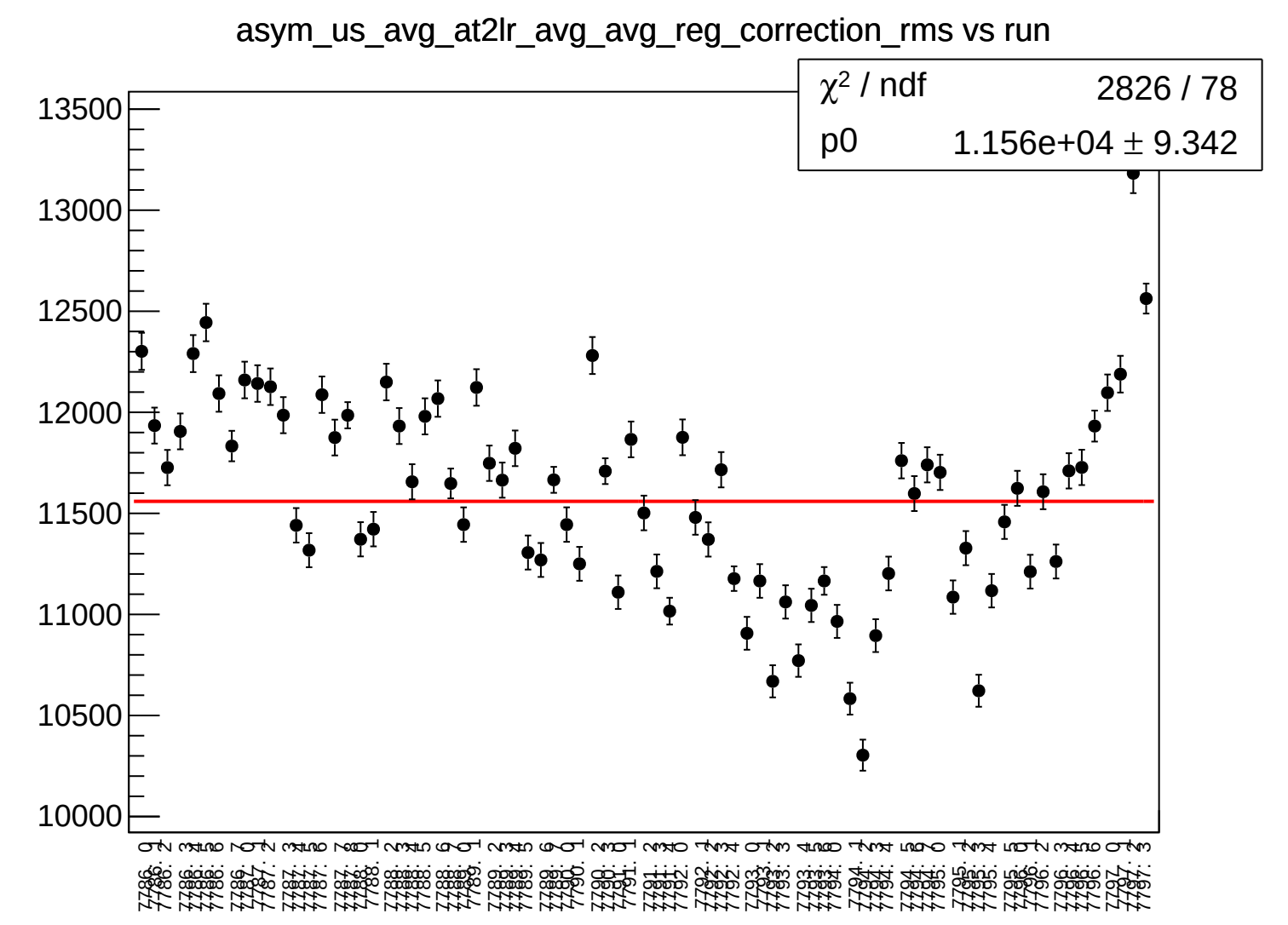

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 80.07 / 78
p0 −5740 ± 2555
100
50
0
−50
−100
pull
Entries 79
Mean −546.3
Std Dev 0
3
2
1
0
−1
−2

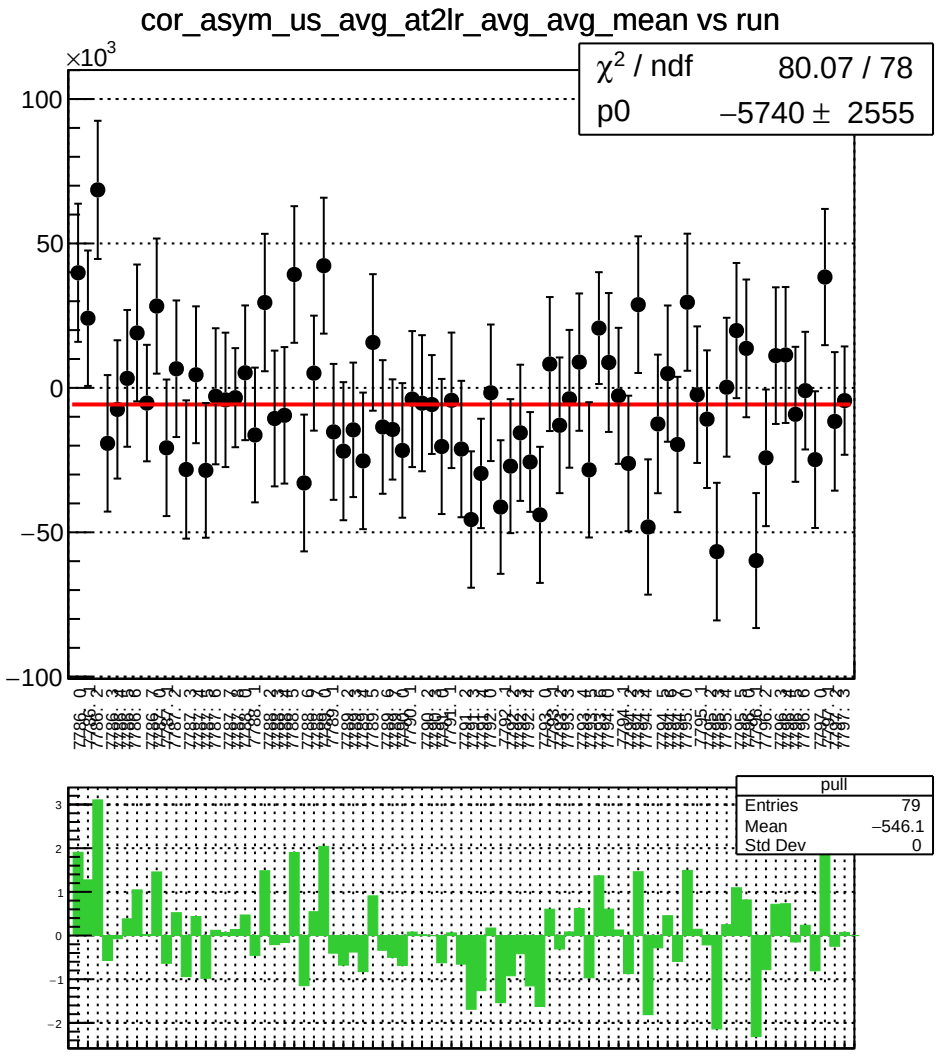

pull1D
Entries 79
Mean 0.007163
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

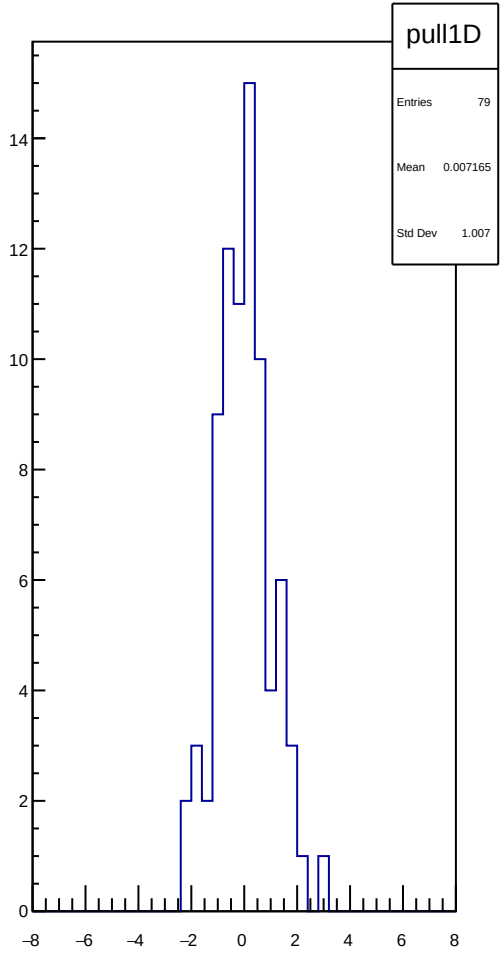

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 112 / 78
p0 2237 ± 1.807
2300
2280
2260
2240
2220
2200
2180

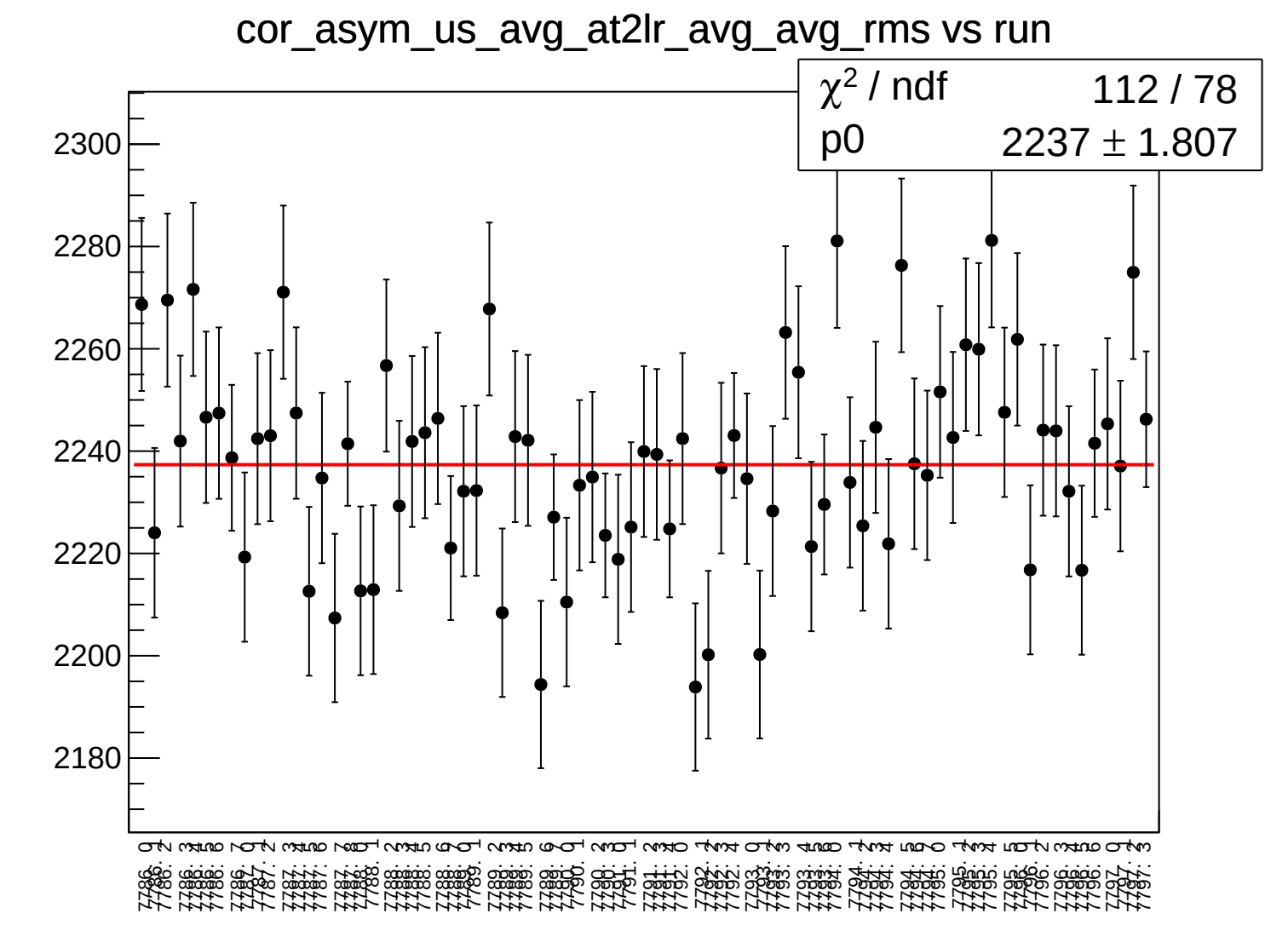

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.14 / 78
p0 1211± 1.321e+04
pull
Entries 79
Mean −289.3
Std Dev 0

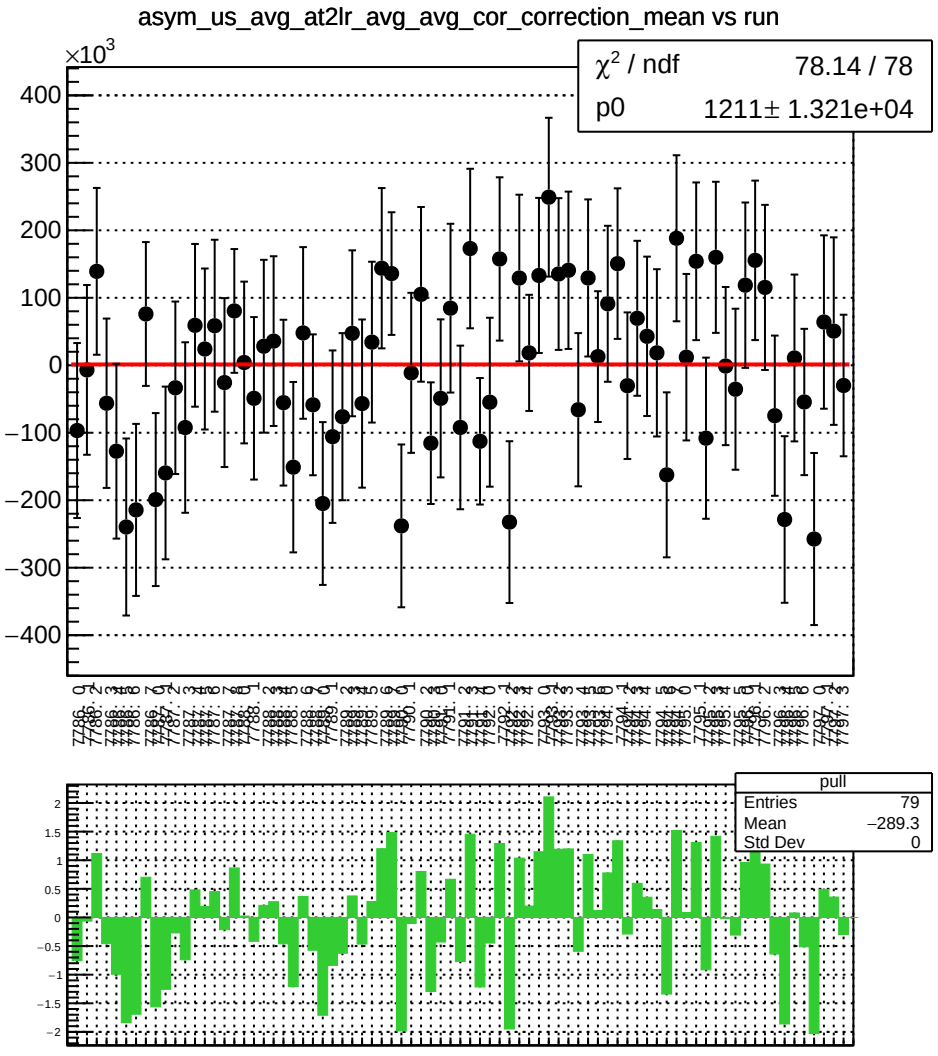

pull1D
Entries 79
Mean −0.01435
Std Dev 0.9944

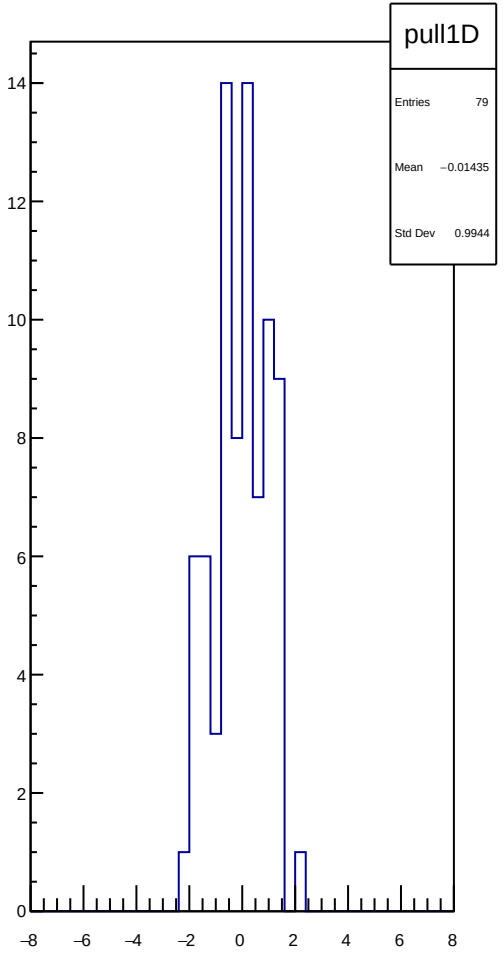

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2826 / 78
p0 1.156e+04 ± 9.342
13500
13000
12500
12000
11500
11000
10500
10000

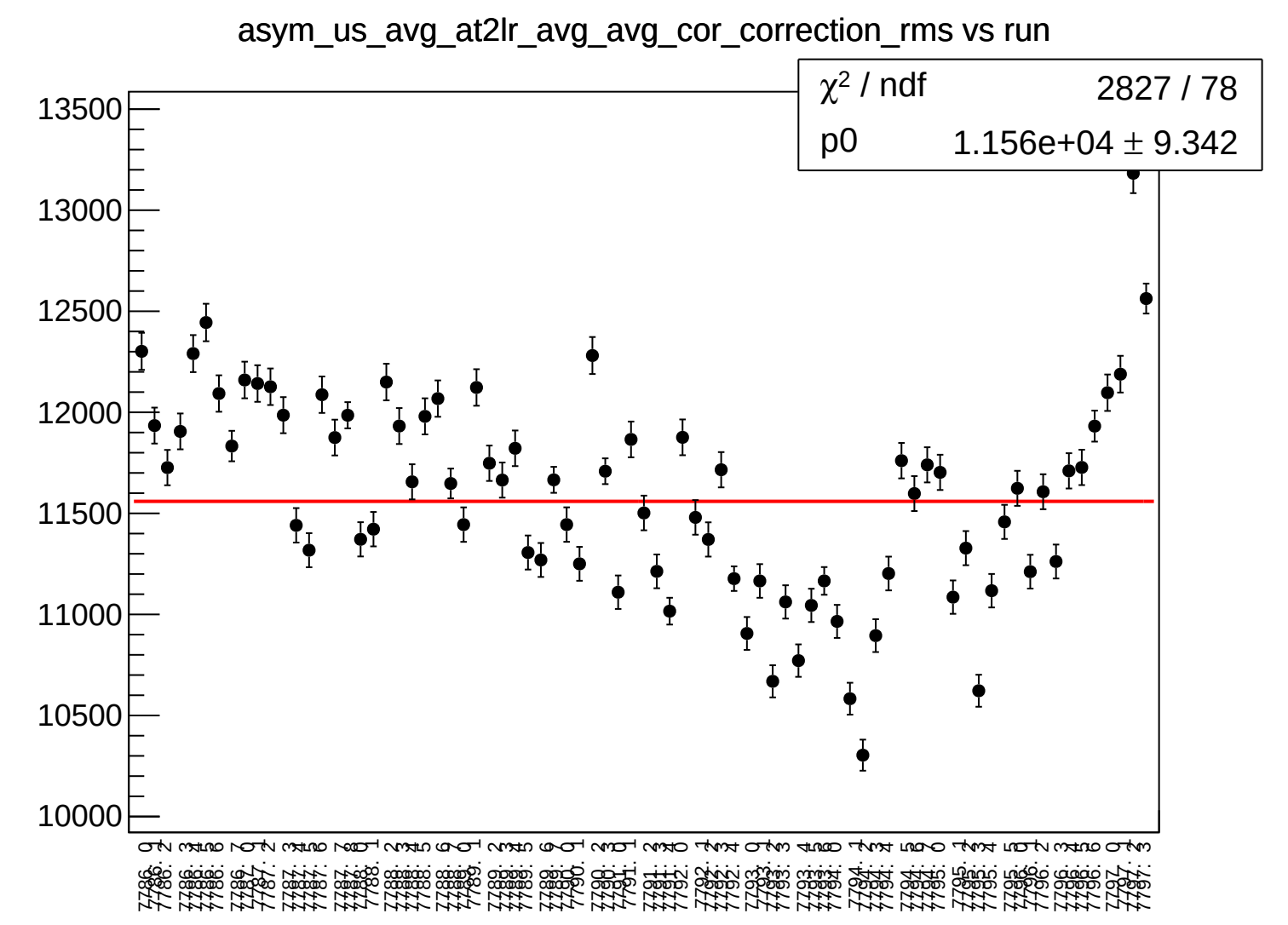

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 80.07 / 78
p0 −5740 ± 2555
100
50
0
−50
−100
pull
Entries 79
Mean −546.1
Std Dev 0
3
2
1
0
−1
−2

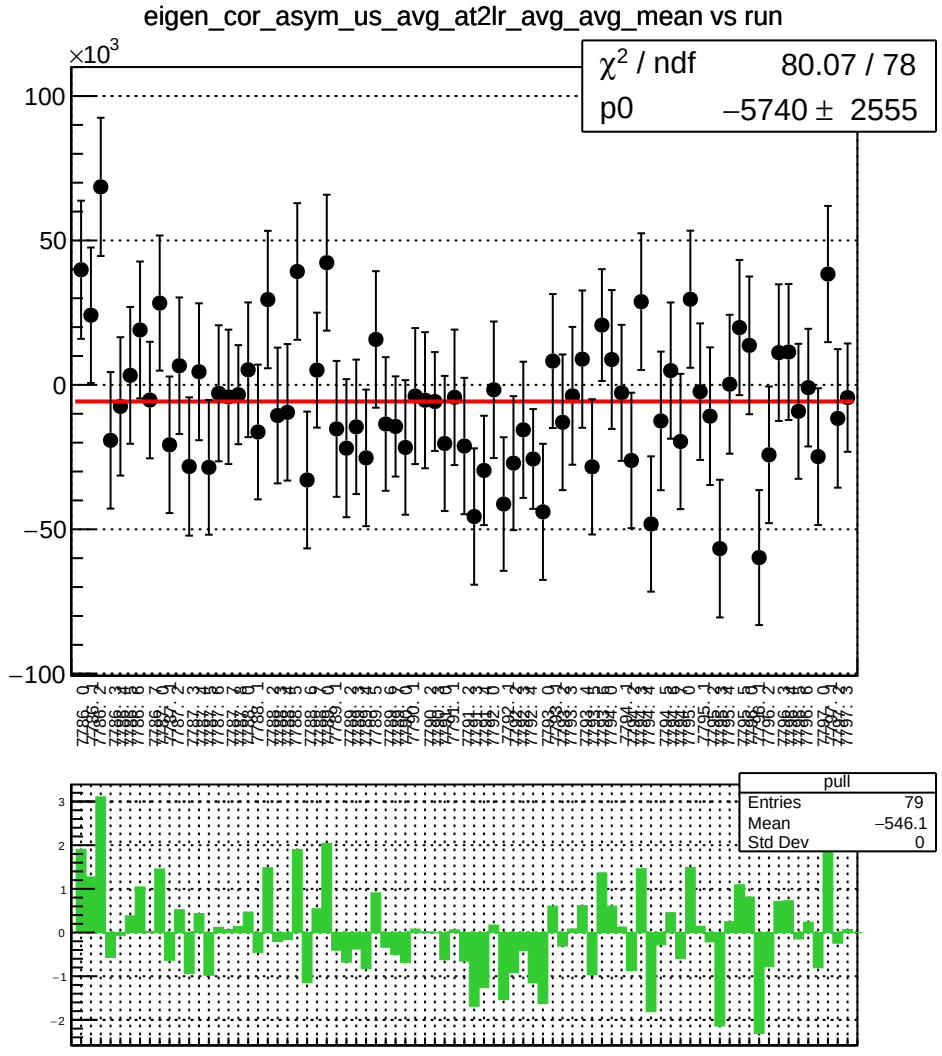

pull1D
Entries 79
Mean 0.007165
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

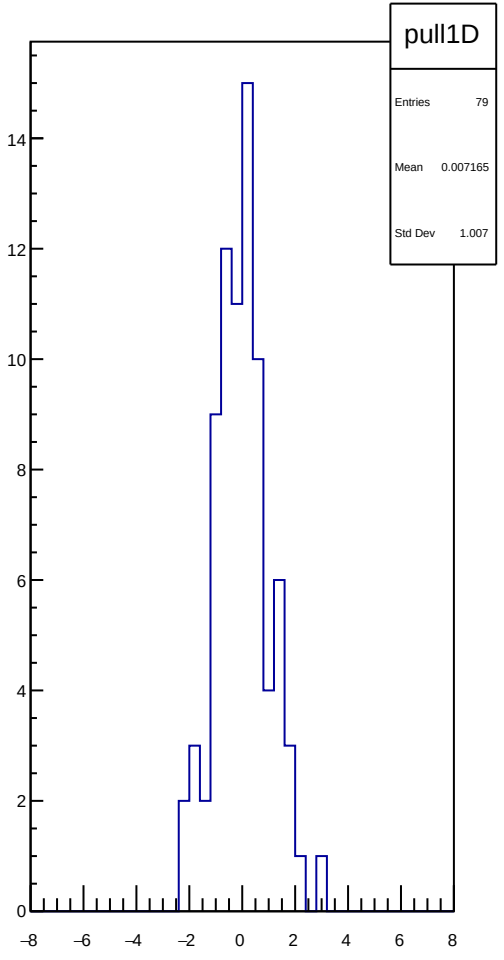

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 112 / 78
p0 2237 ± 1.807
2300
2280
2260
2240
2220
2200
2180

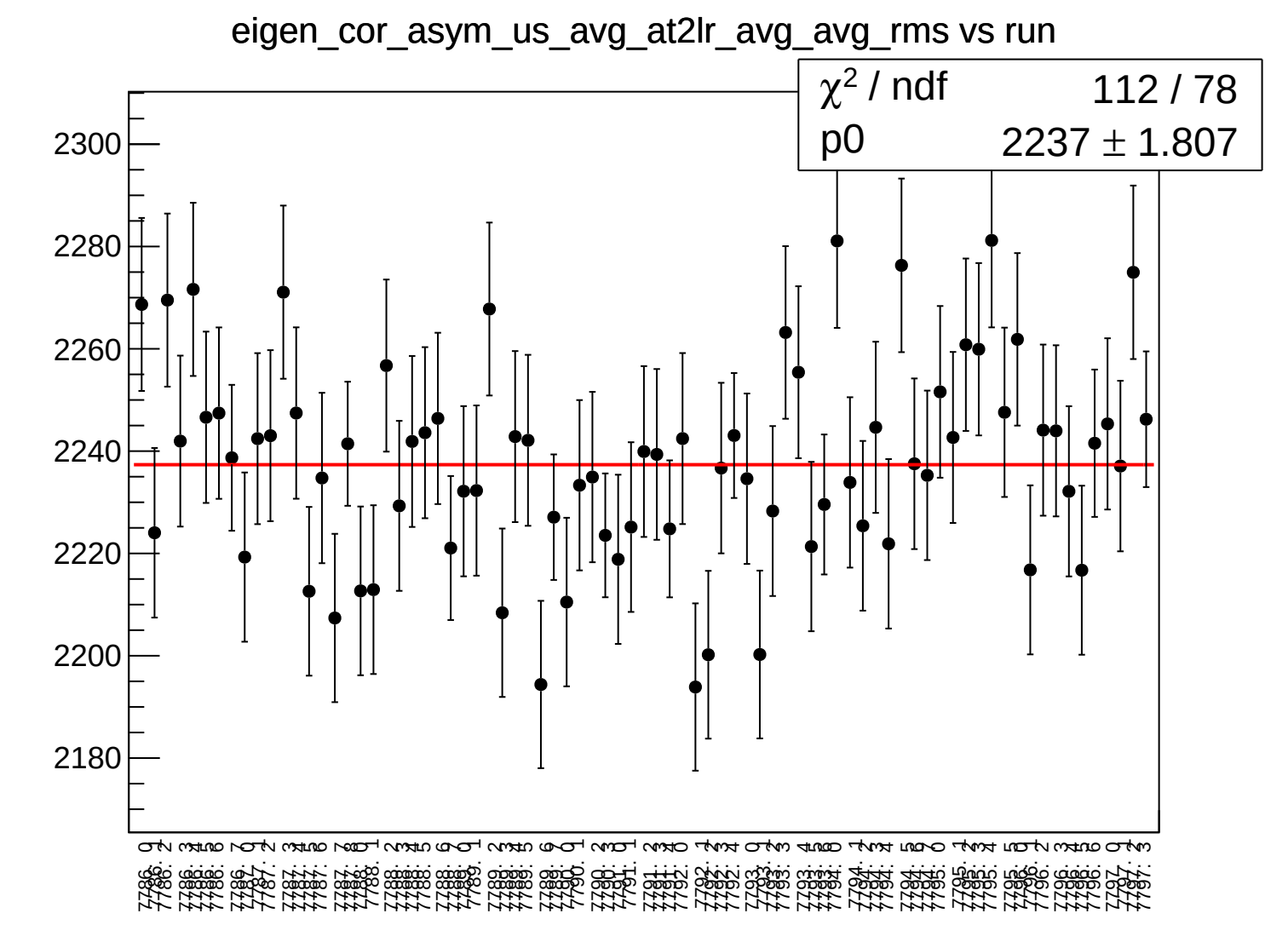

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.14 / 78
p0 1211± 1.321e+04
pull
Entries 79
Mean −289.3
Std Dev 0

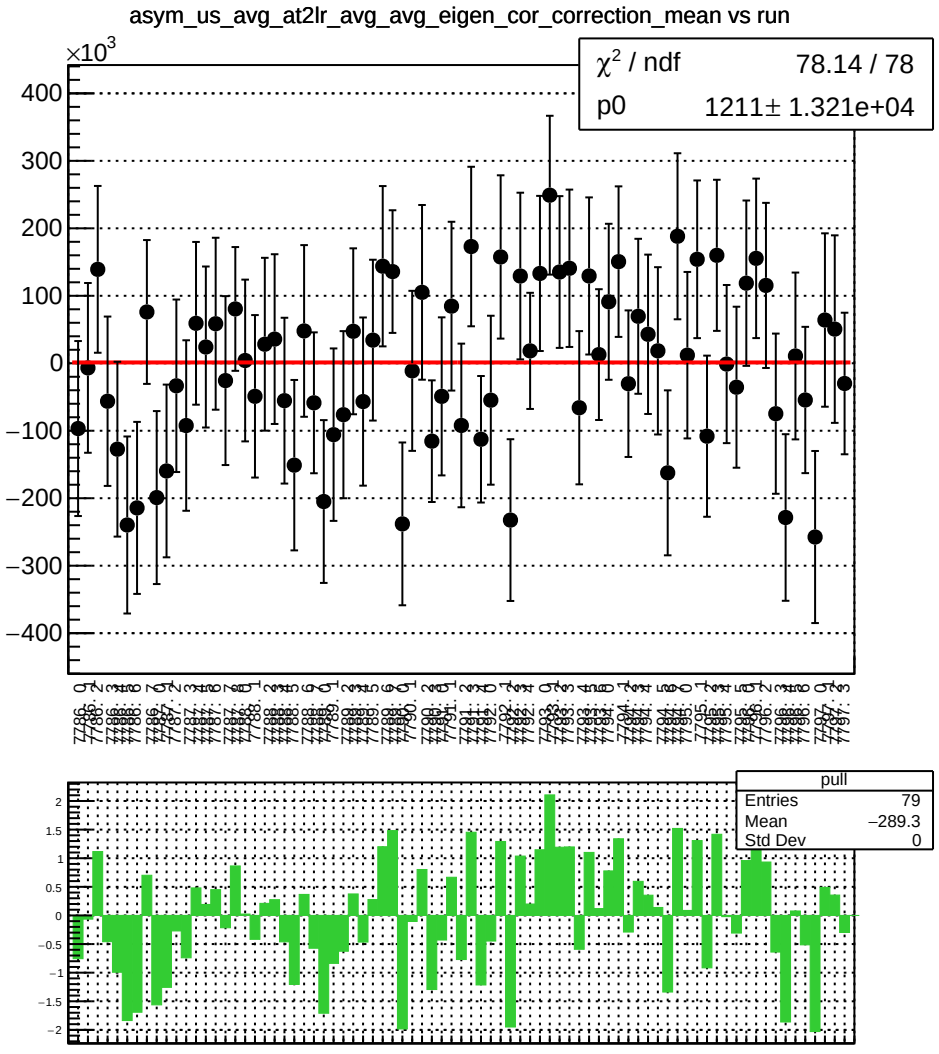

pull1D
Entries 79
Mean −0.01435
Std Dev 0.9944

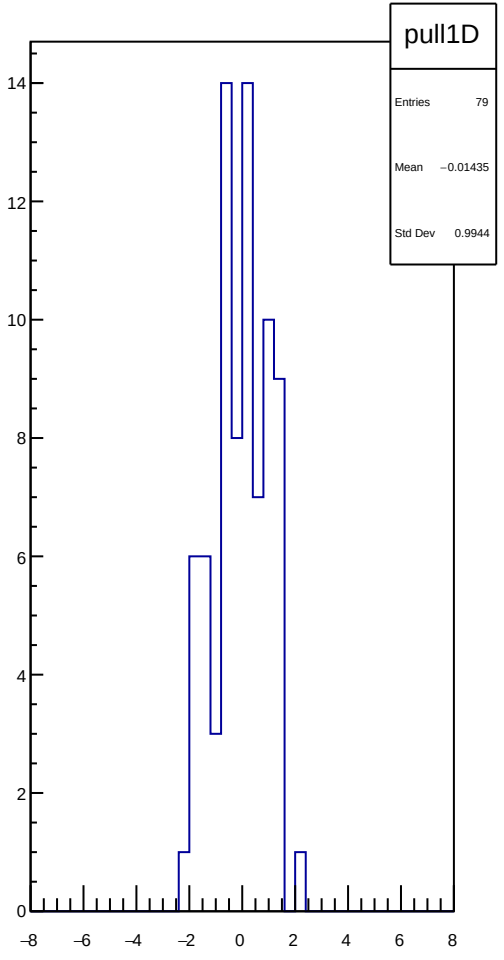

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2827 / 78
p0 1.156e+04 ± 9.342
13500
13000
12500
12000
11500
11000
10500
10000

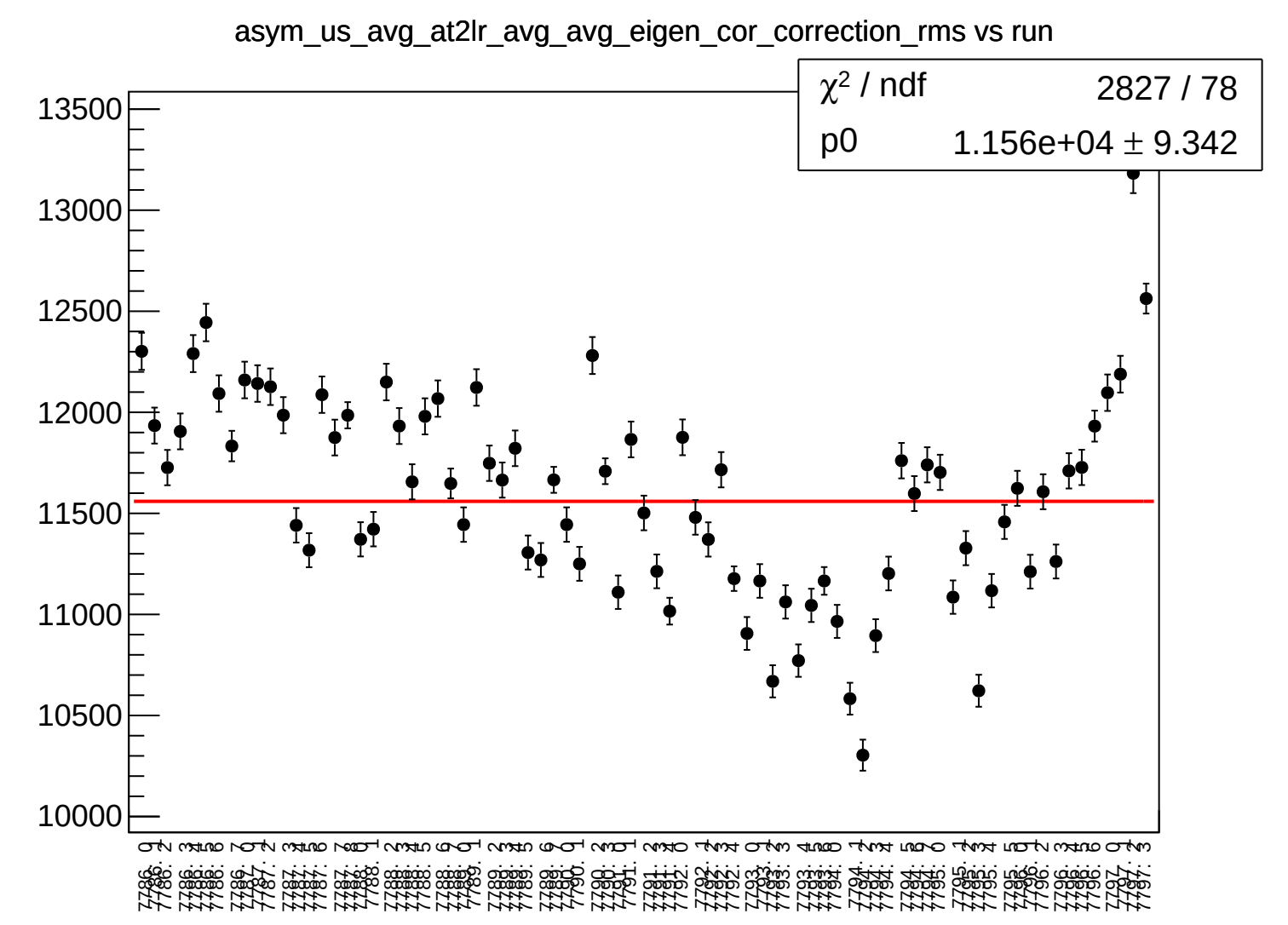

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 80.07 / 78
p0 −5740 ± 2555
pull
Entries 79
Mean −546.1
Std Dev 0

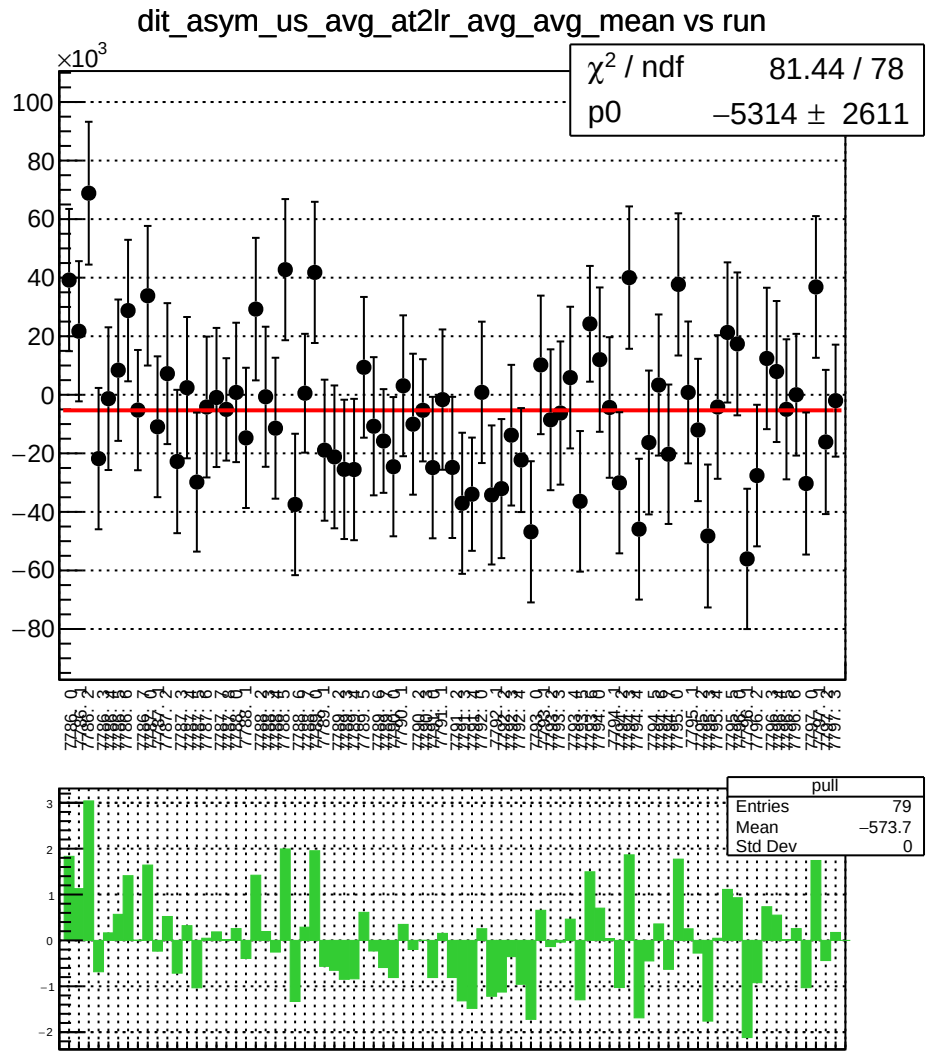

pull1D
Entries 79
Mean 0.007165
Std Dev 1.007

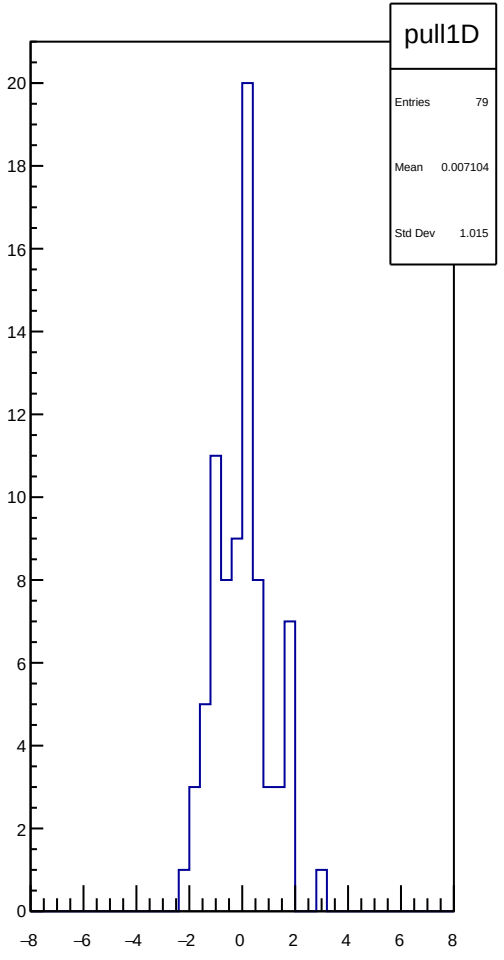

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 112 / 78
p0 2237 ± 1.807
2300
2280
2260
2240
2220
2200
2180

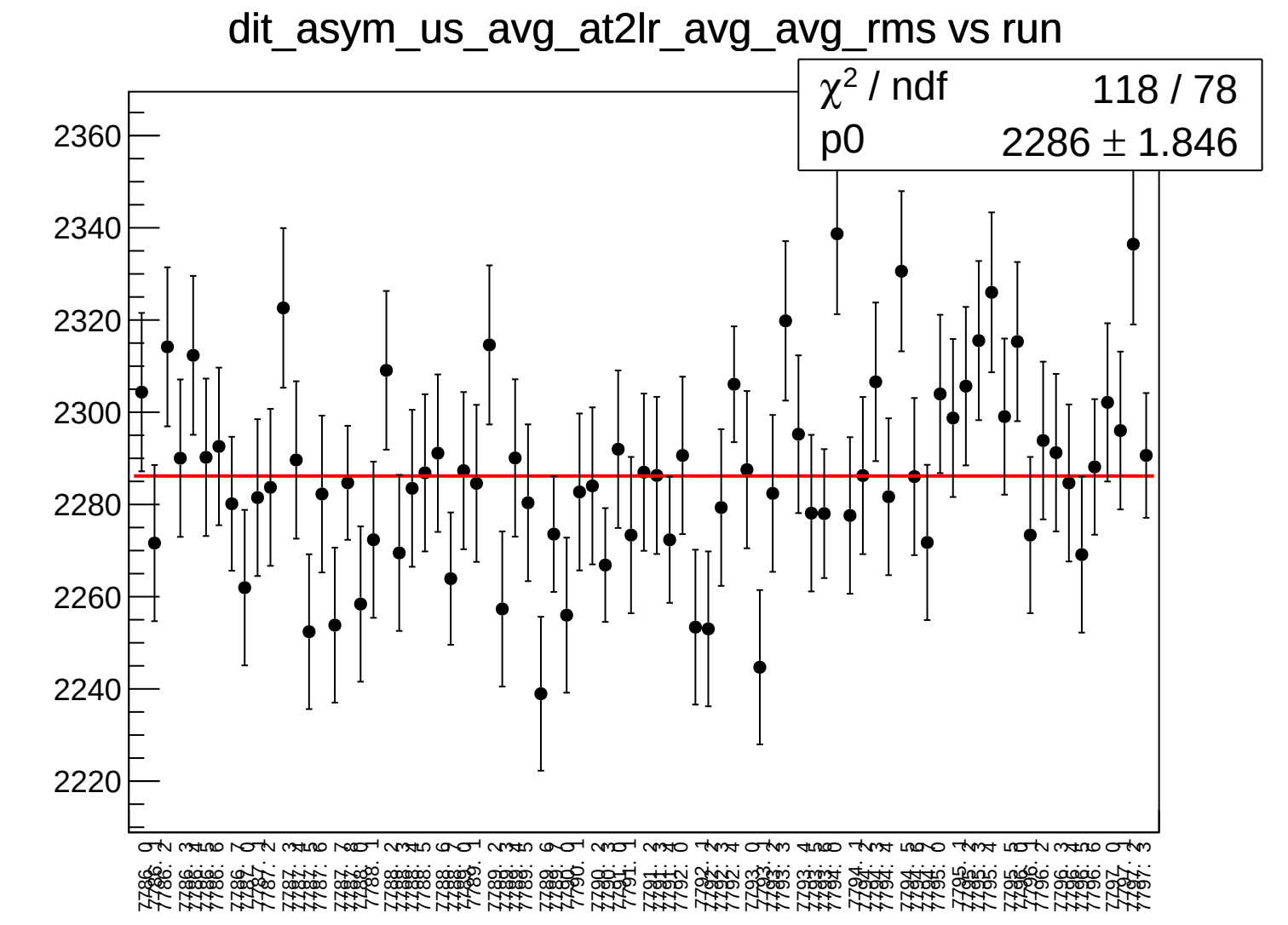

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.14 / 78
p0 1211± 1.321e+04
pull
Entries 79
Mean −289.3
Std Dev 0

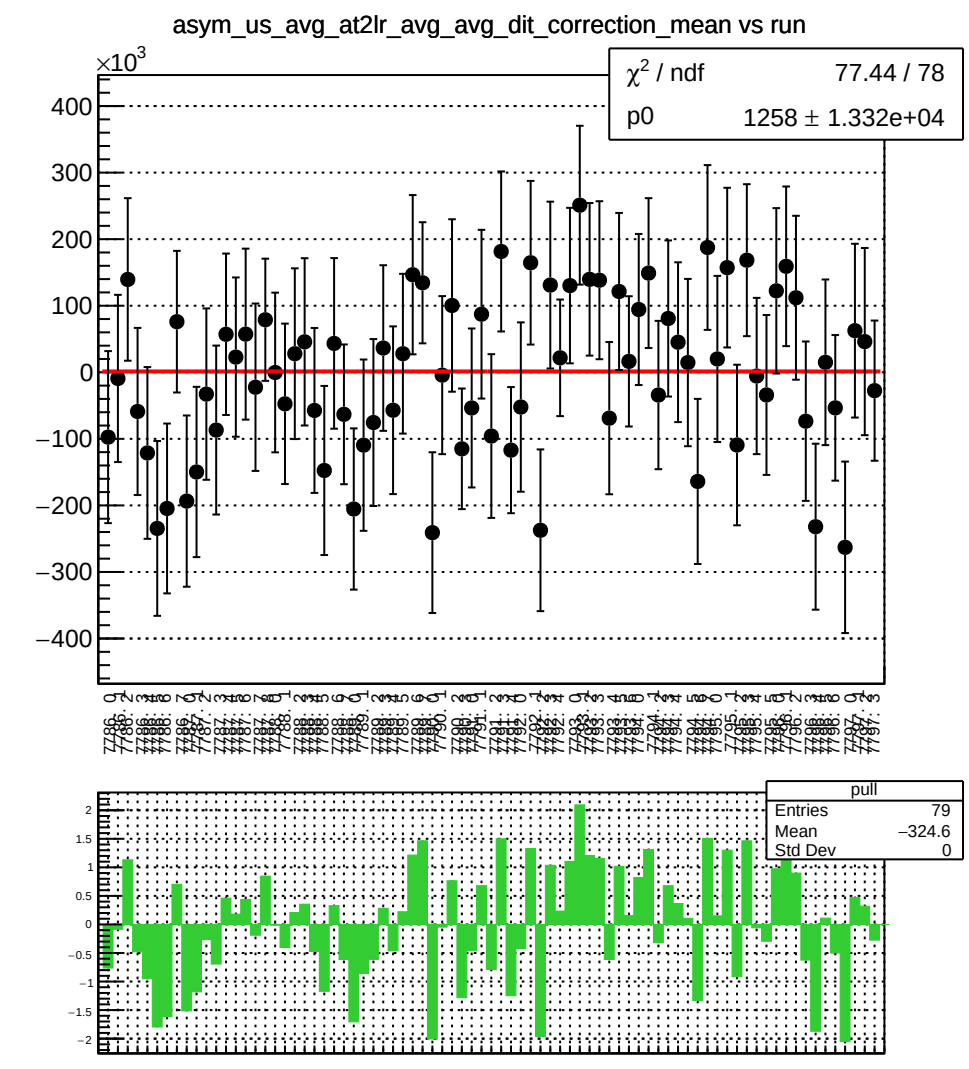

pull1D
Entries 79
Mean −0.01435
Std Dev 0.9944

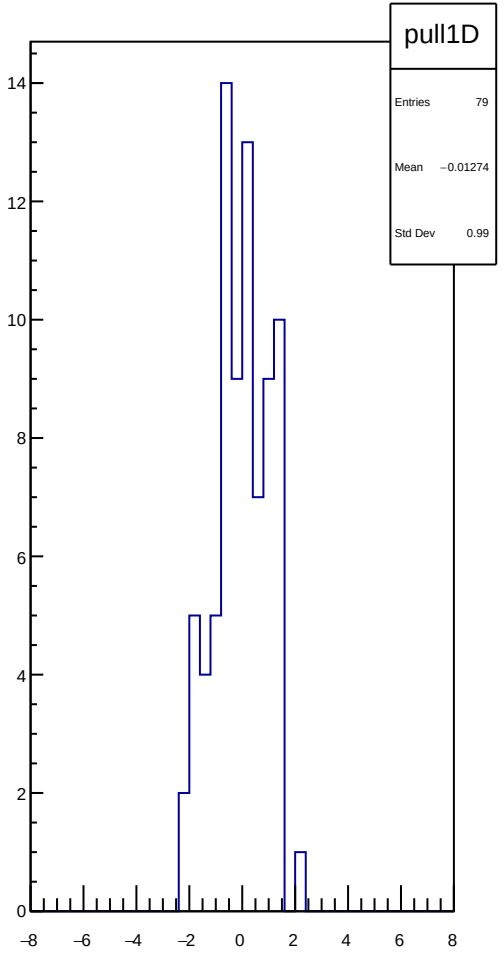

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2827 / 78
p0 1.156e+04 ± 9.342
13500
13000
12500
12000
11500
11000
10500
10000

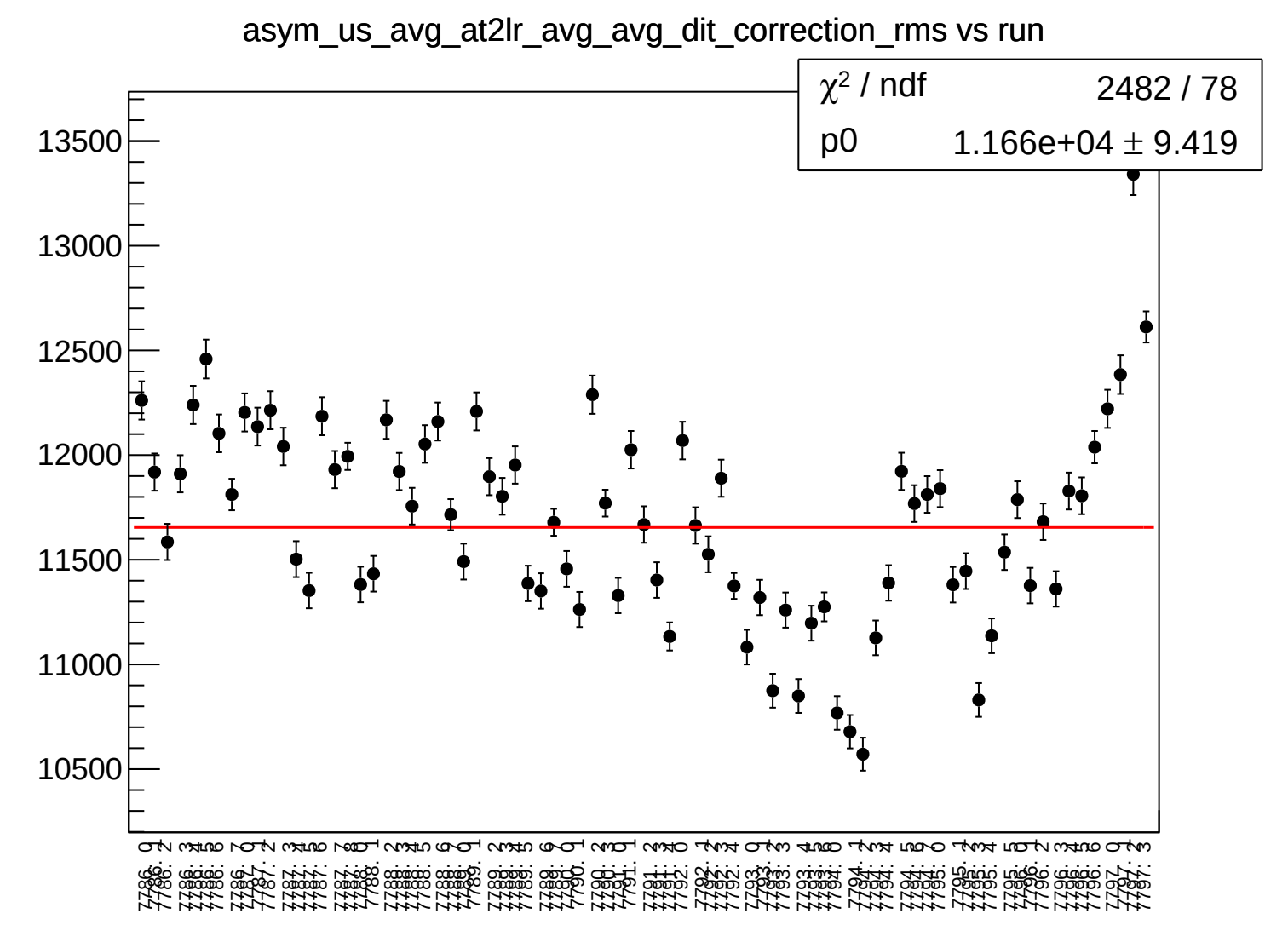

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 81.44 / 78
p0 −5314 ± 2611
pull
Entries 79
Mean −573.7
Std Dev 0

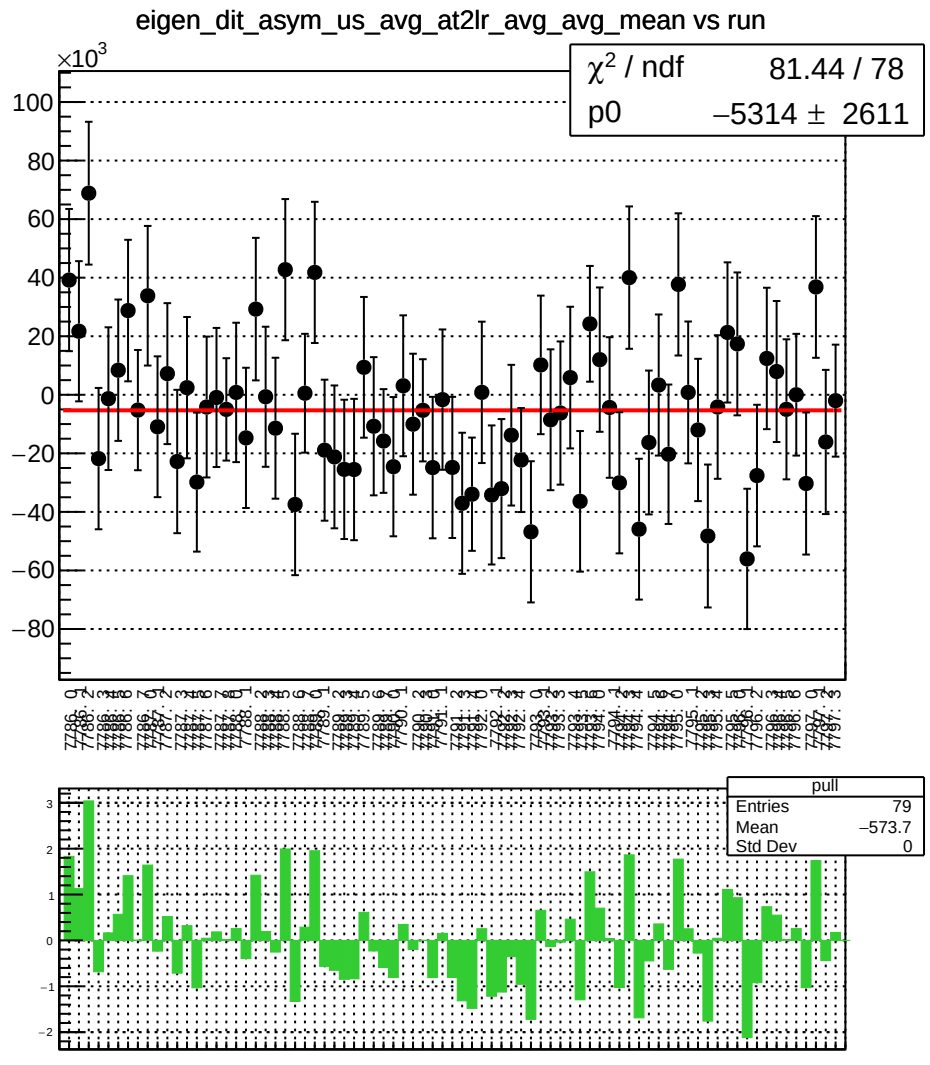

pull1D
Entries 79
Mean 0.007104
Std Dev 1.015

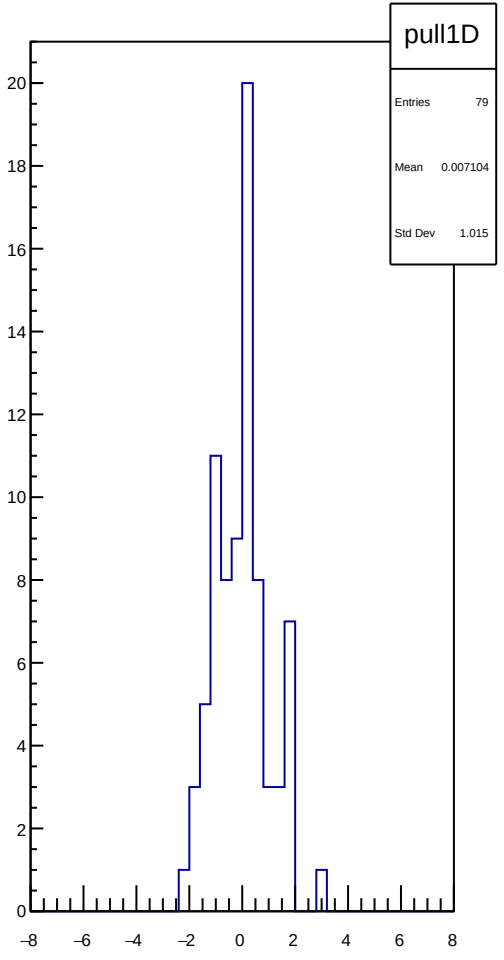

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 118 / 78
p0 2286 ± 1.846
2360
2340
2320
2300
2280
2260
2240
2220

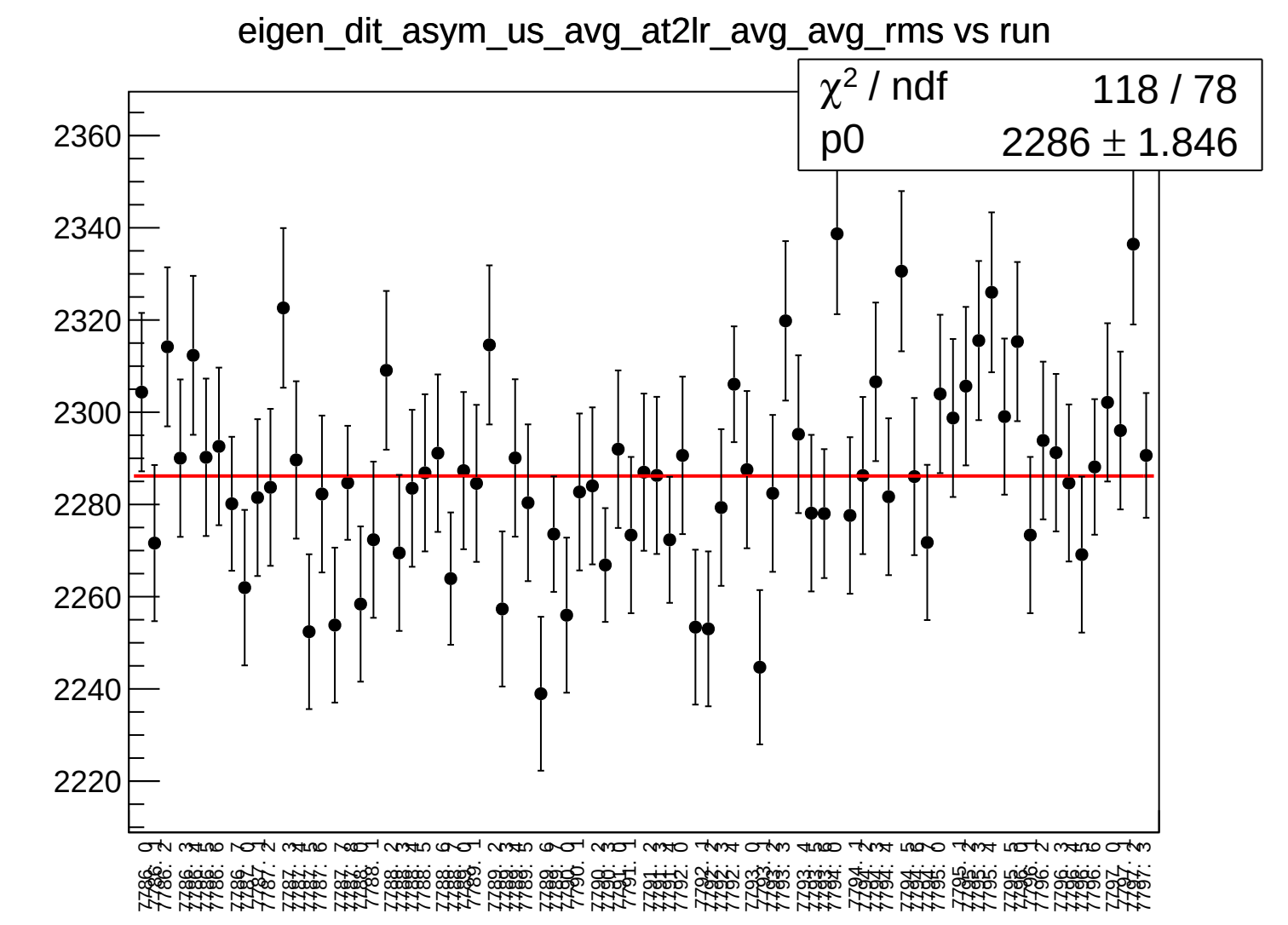

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.44 / 78
p0 1258 ± 1.332e+04
pull
Entries 79
Mean −324.6
Std Dev 0

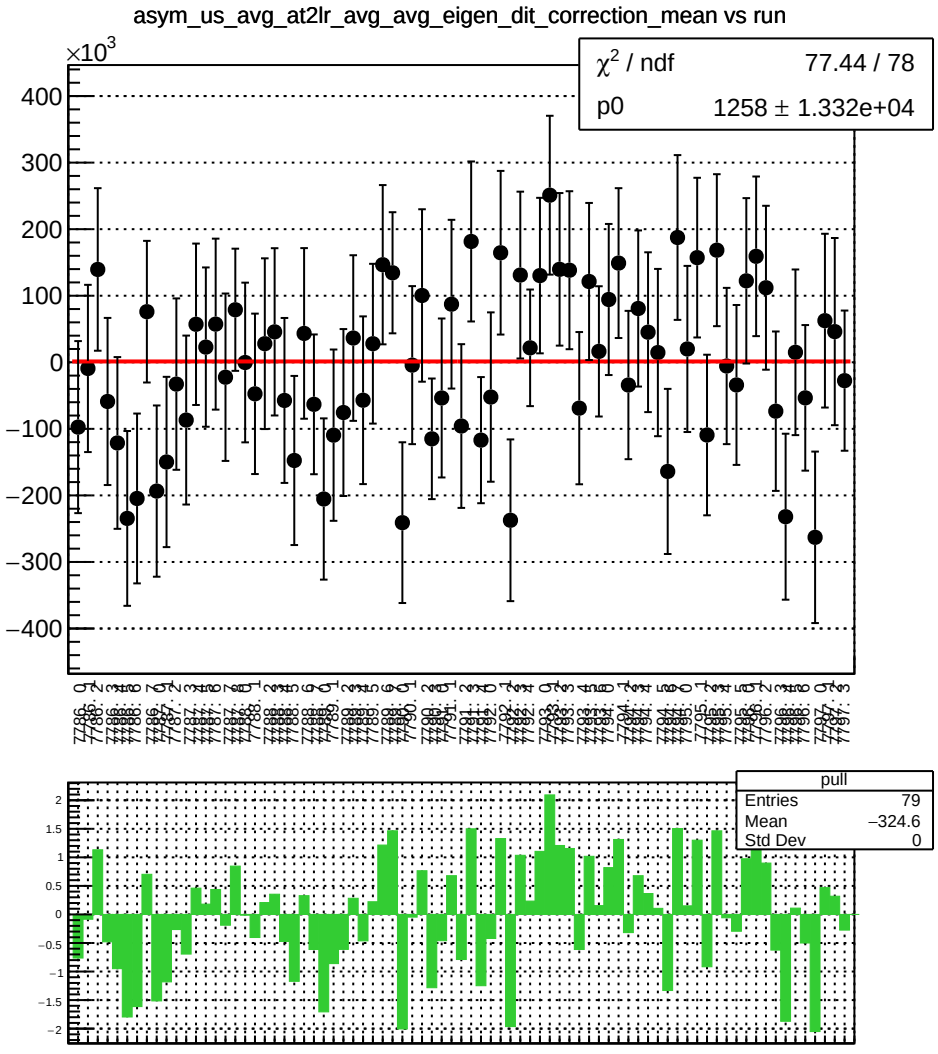

pull1D
Entries 79
Mean −0.01274
Std Dev 0.99

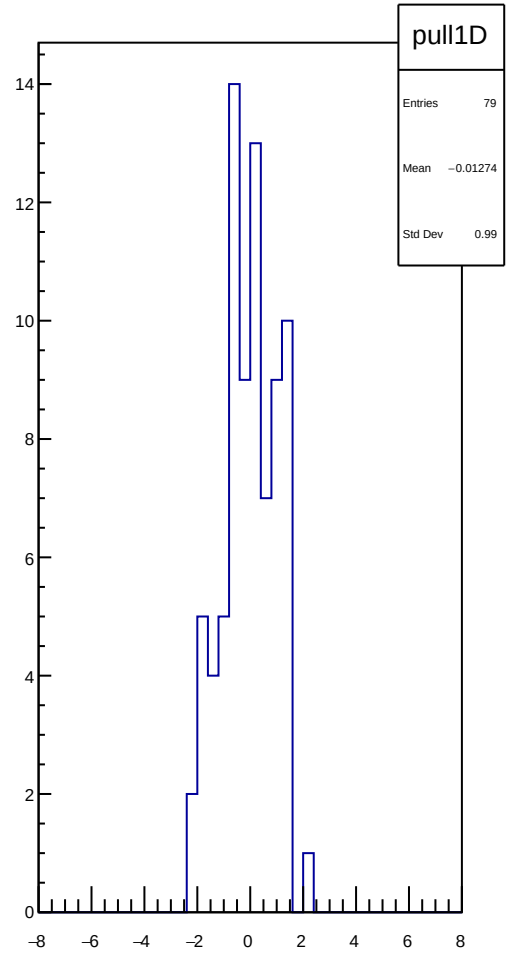

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2482 / 78
p0 1.166e+04 ± 9.419
13500
13000
12500
12000
11500
11000
10500

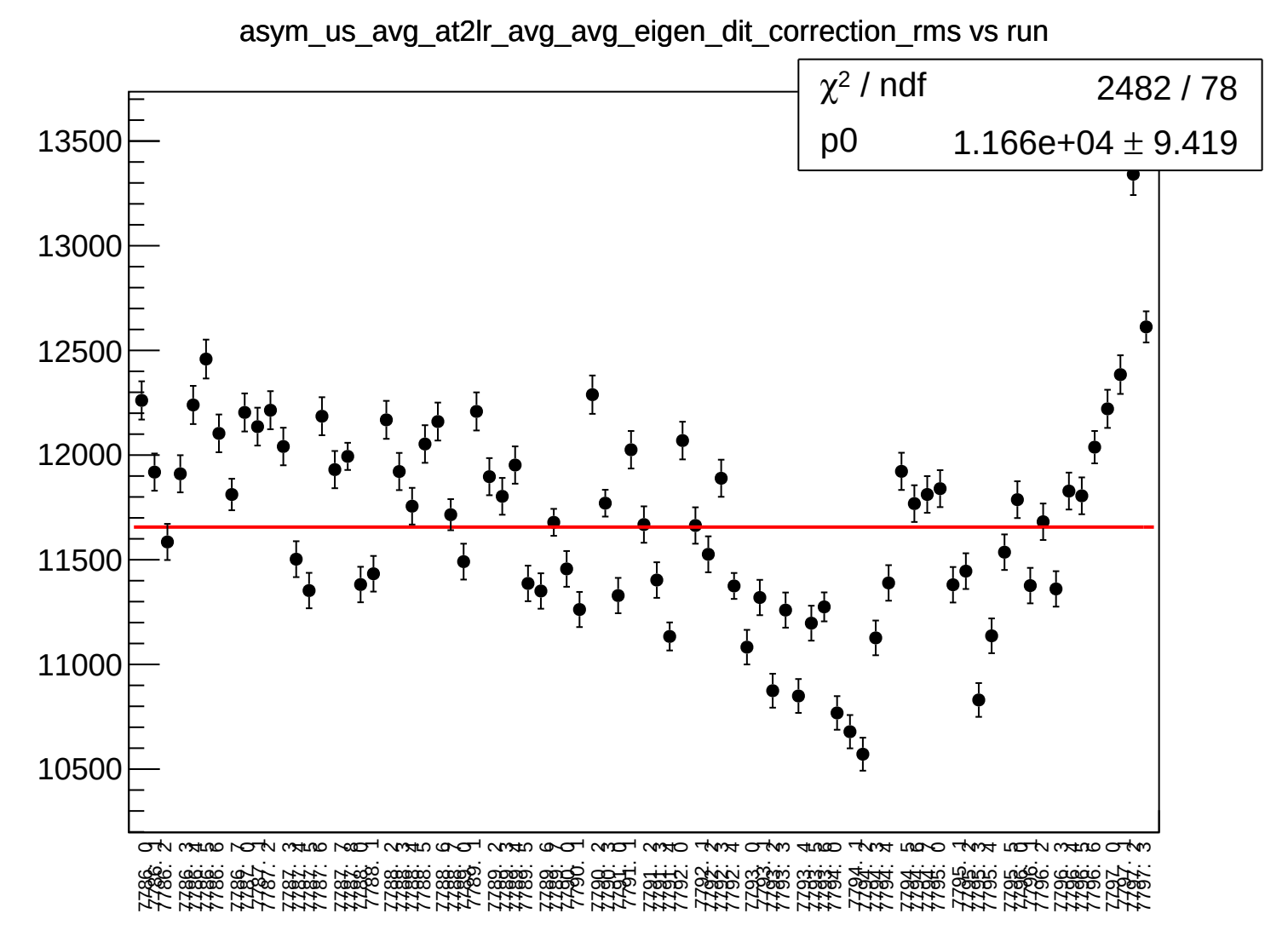

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 81.44 / 78
p0 −5314 ± 2611
pull
Entries 79
Mean −573.7
Std Dev 0

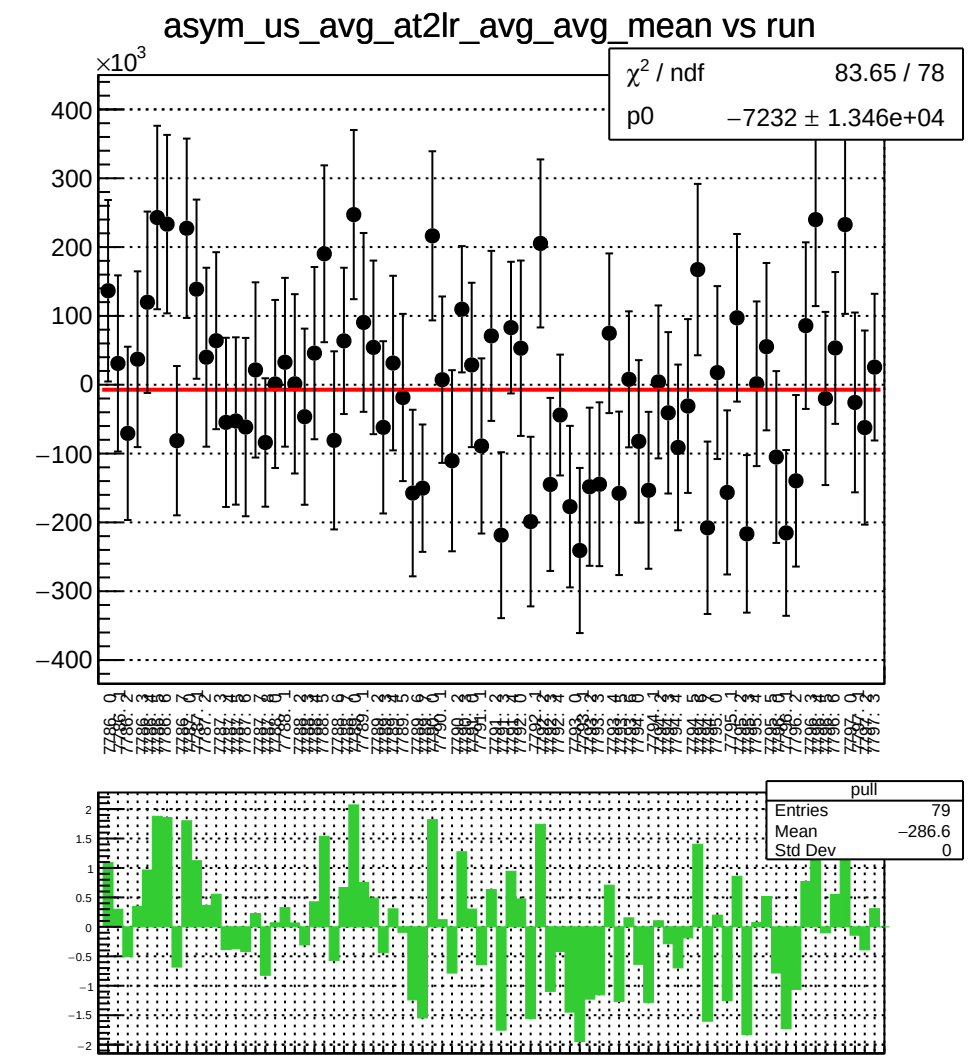

pull1D
Entries 79
Mean 0.007104
Std Dev 1.015

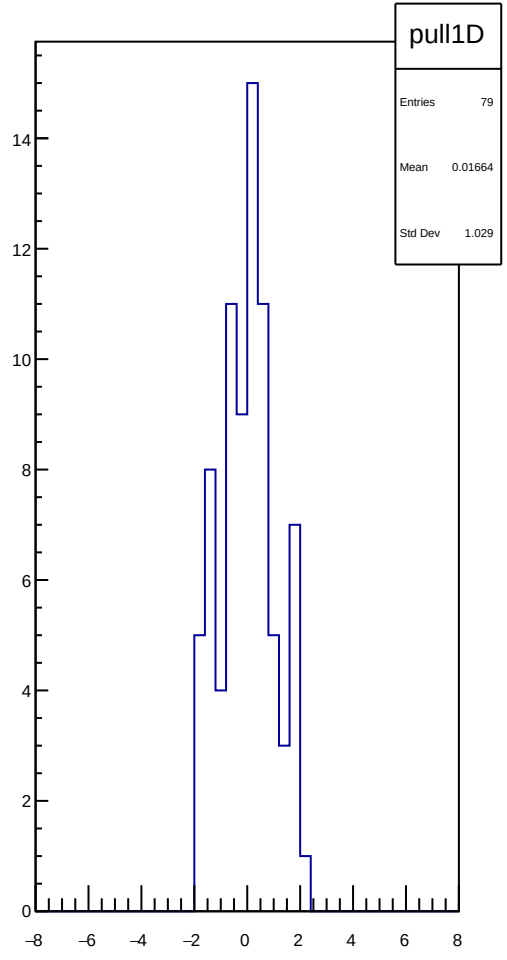

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 118 / 78
p0 2286 ± 1.846
2360
2340
2320
2300
2280
2260
2240
2220

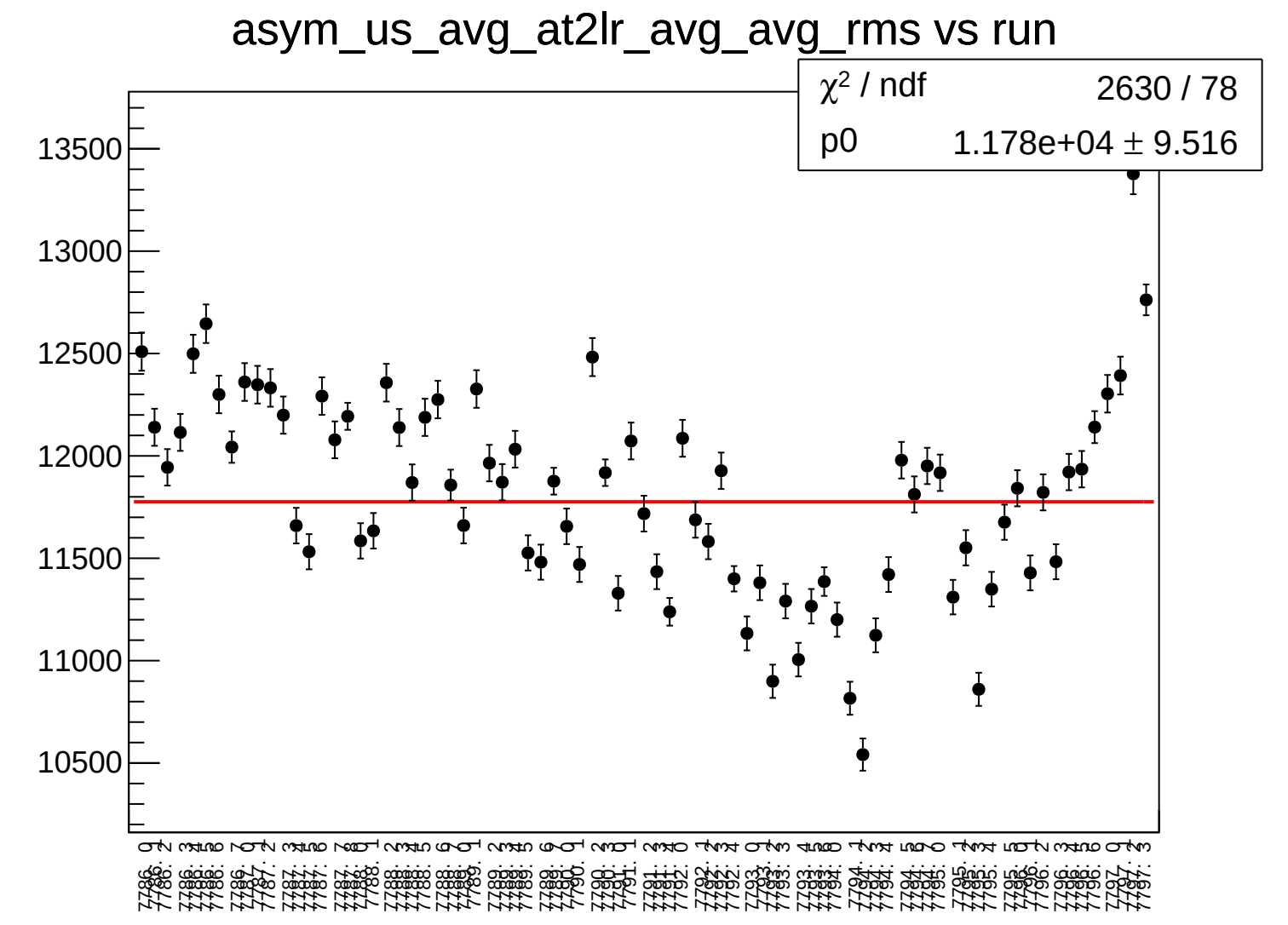

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.44 / 78
p0 1258 ± 1.332e+04
pull
Entries 79
Mean −324.6
Std Dev 0

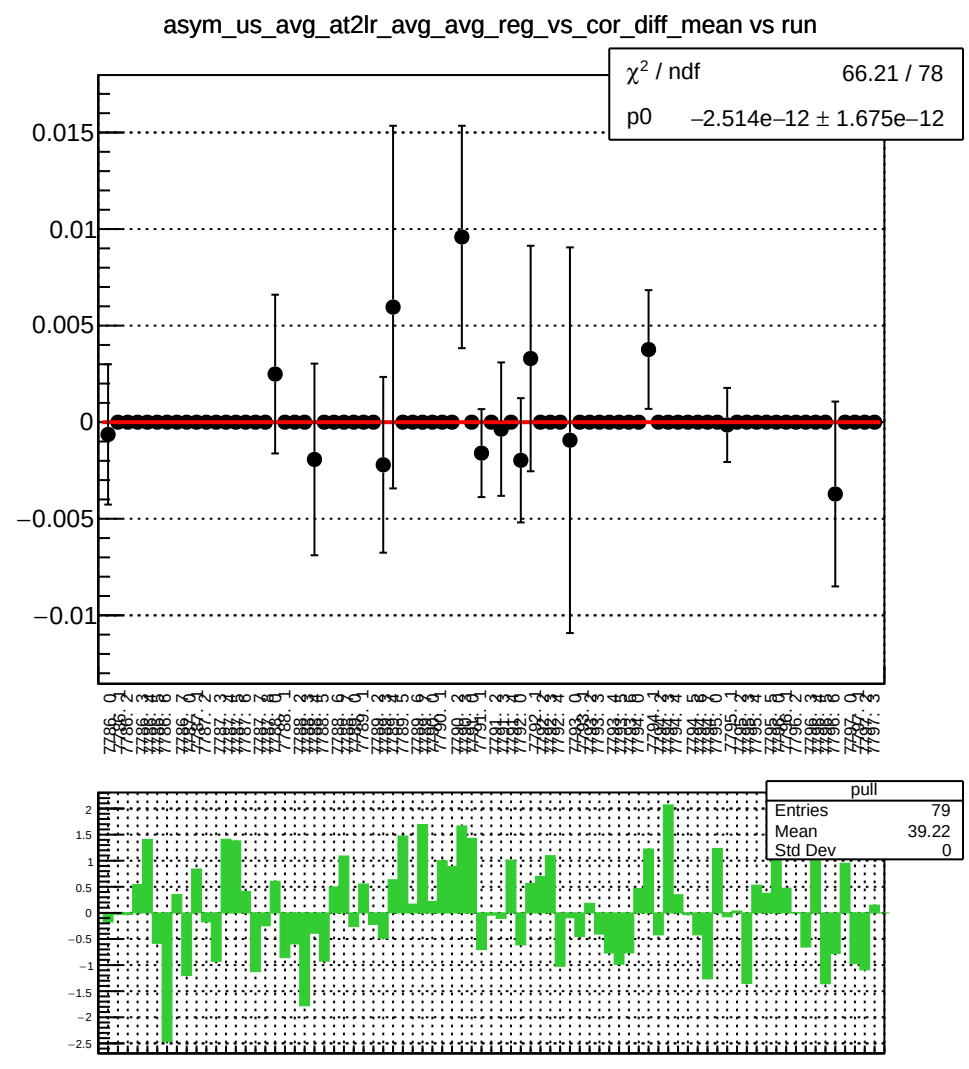

pull1D
Entries 79
Mean −0.01274
Std Dev 0.99

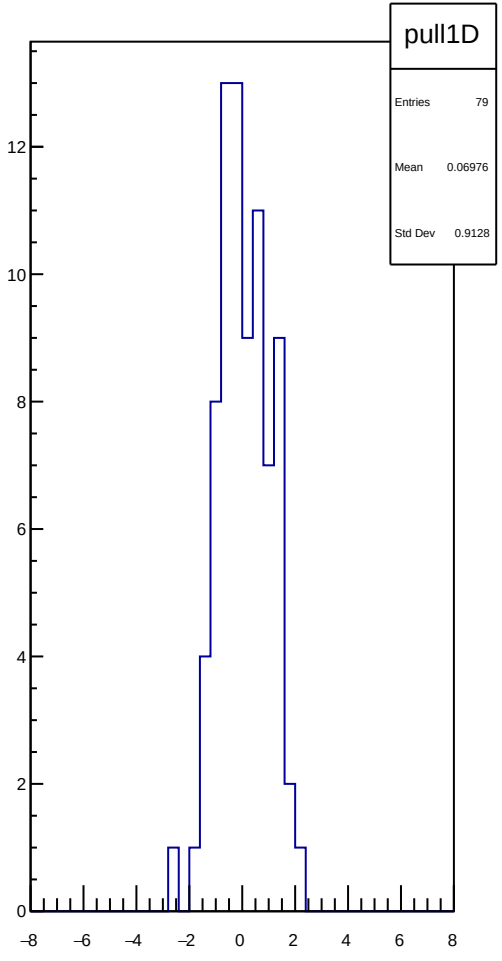

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2482 / 78
p0 1.166e+04 ± 9.419
13500
13000
12500
12000
11500
11000
10500

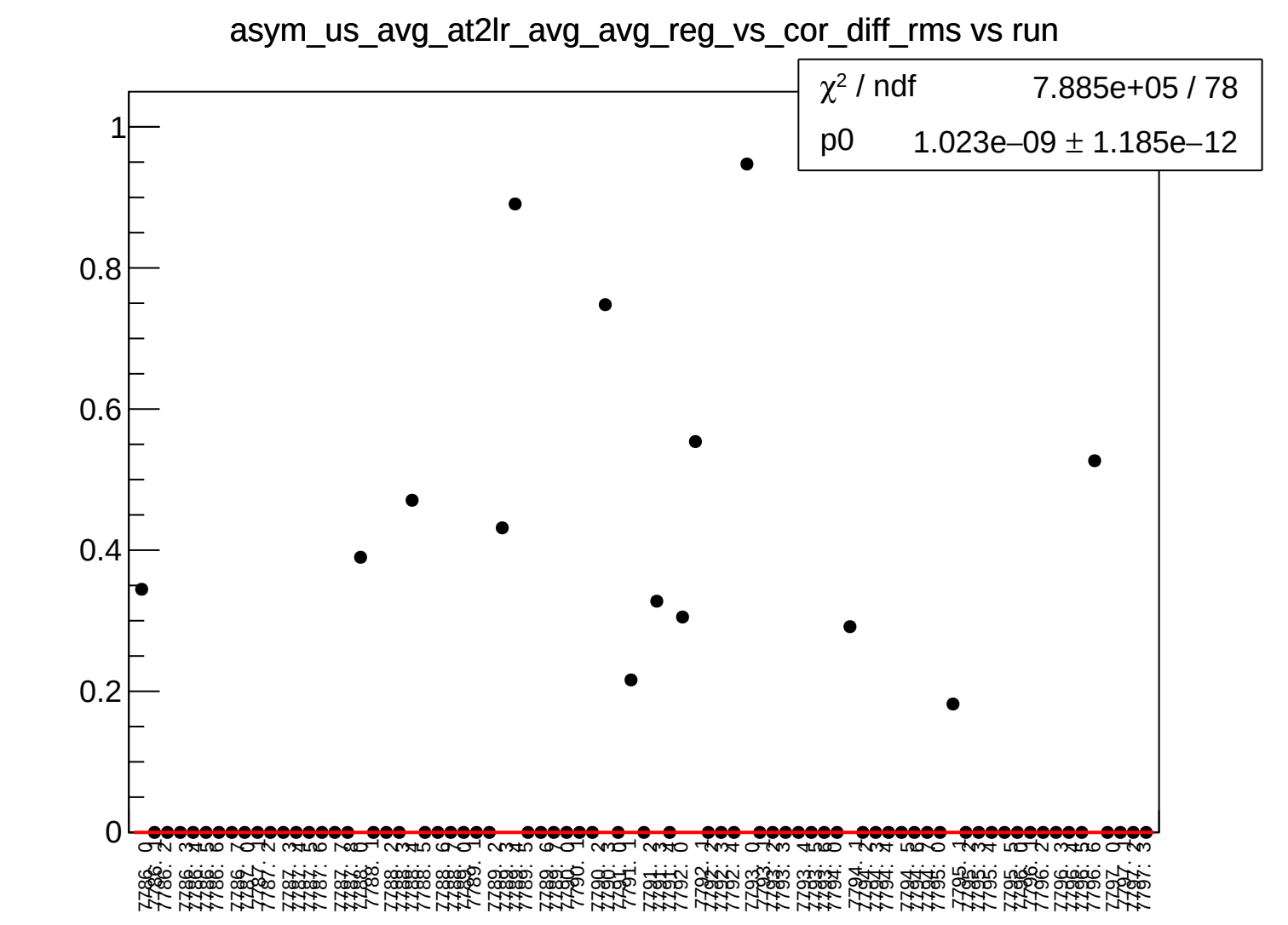

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 83.65 / 78
p0 −7232 ± 1.346e+04
pull
Entries 79
Mean −286.6
Std Dev 0

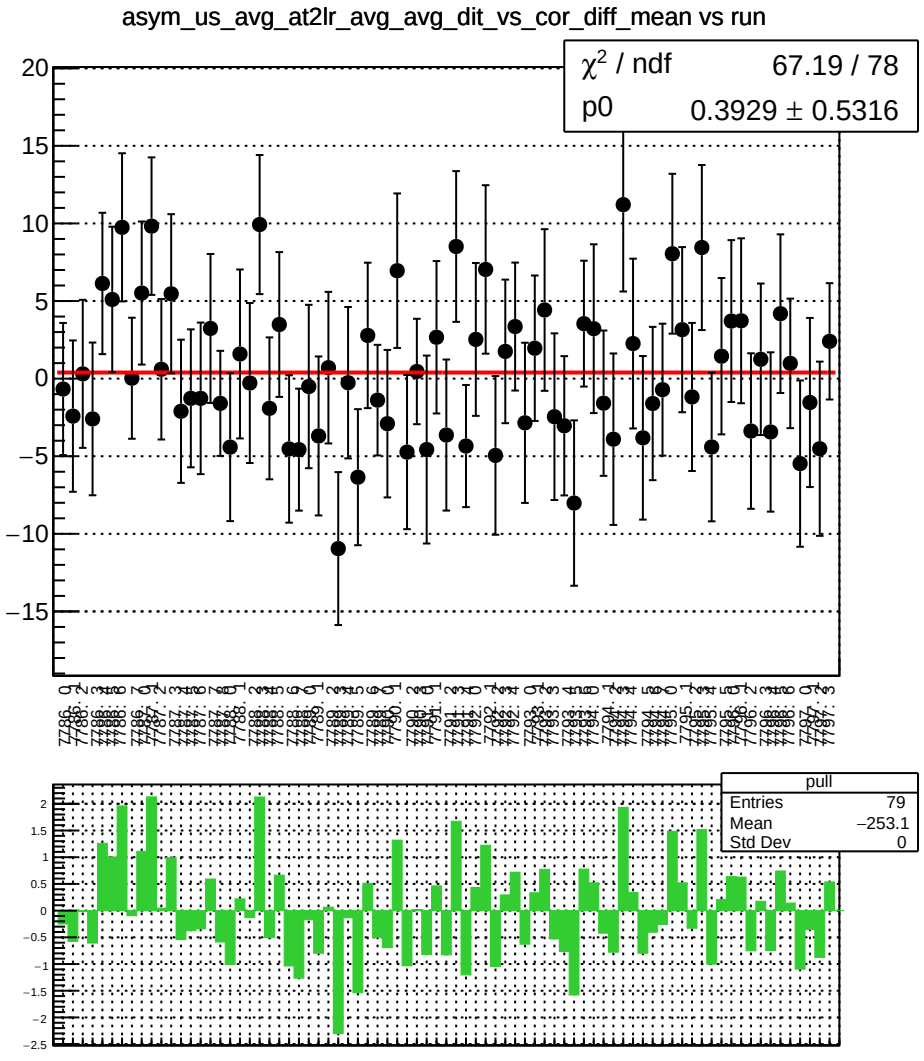

pull1D
Entries 79
Mean 0.01664
Std Dev 1.029

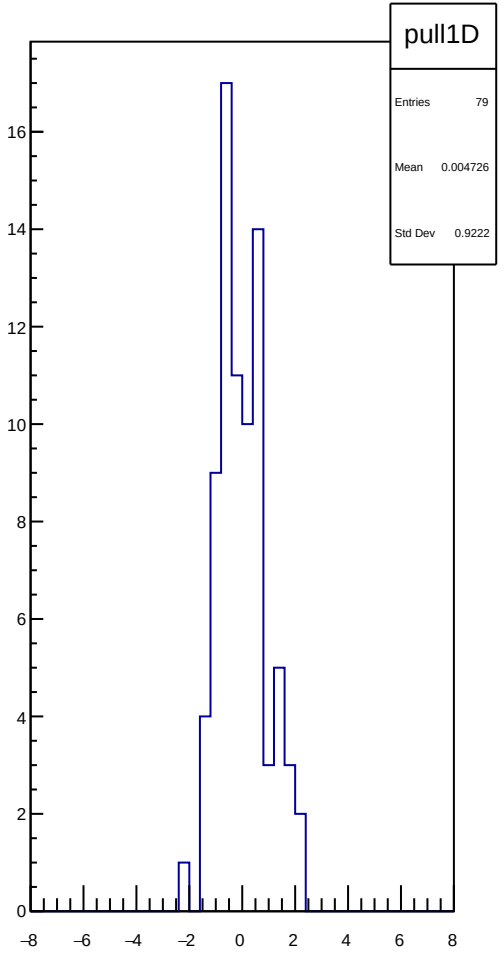

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2630 / 78
p0 1.178e+04 ± 9.516
13500
13000
12500
12000
11500
11000
10500

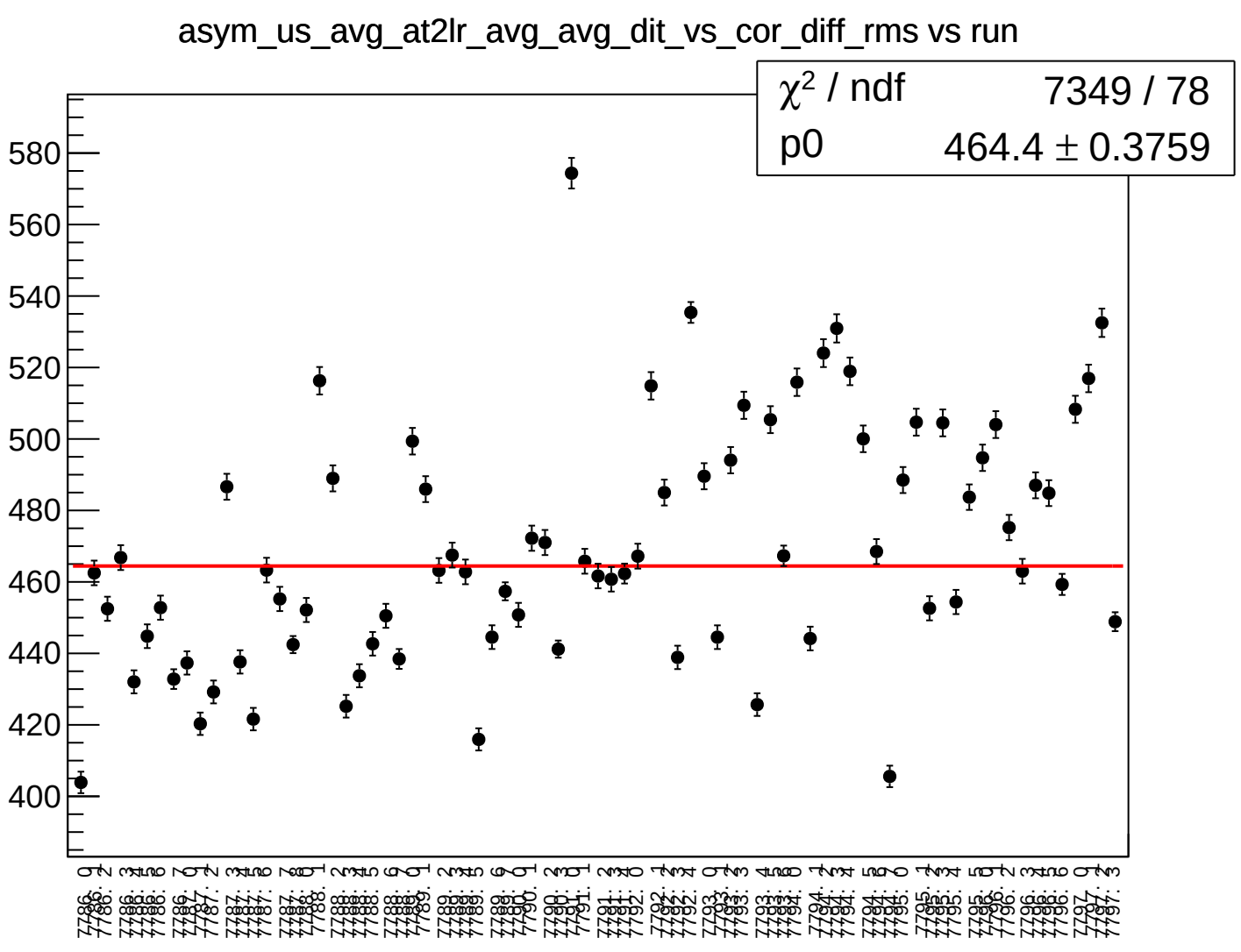

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.21 / 78
p0 −2.514e−12 ± 1.675e−12
pull
Entries 79
Mean 39.22
Std Dev 0

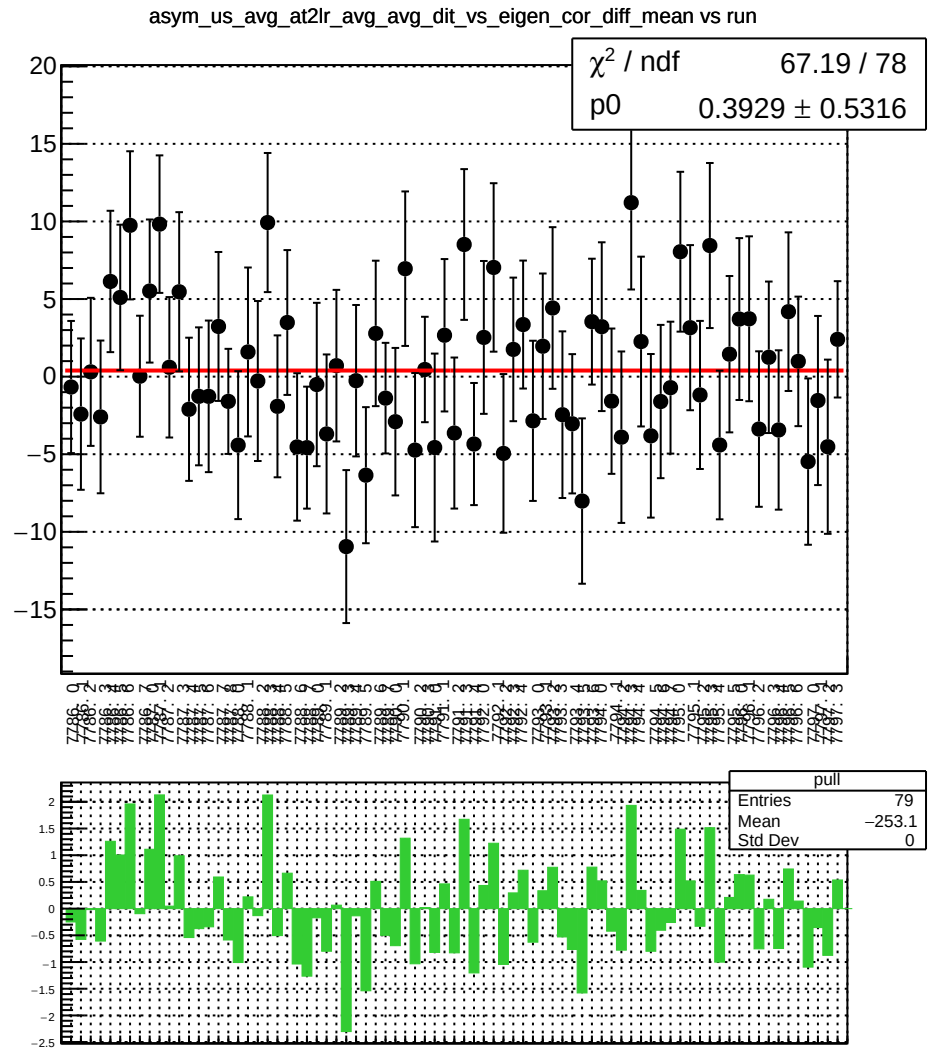

pull1D
Entries 79
Mean 0.06976
Std Dev 0.9128

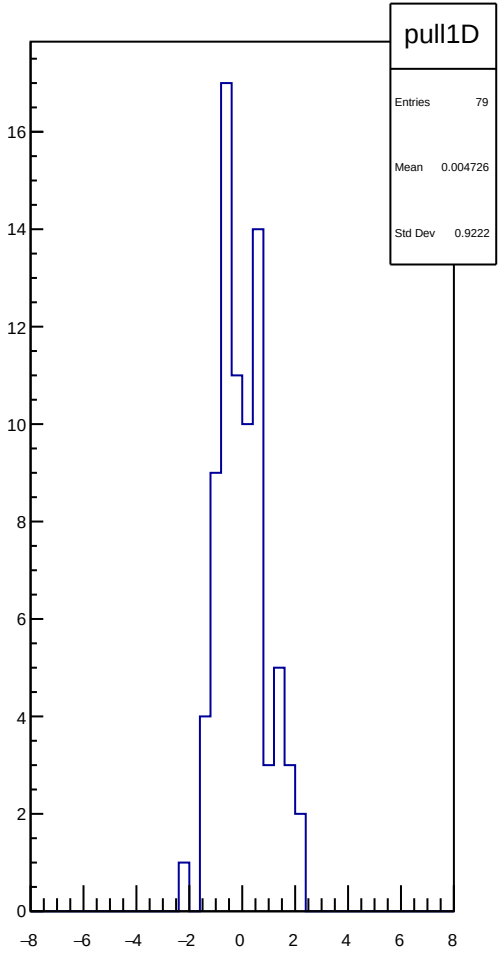

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.885e+05 / 78
p0 1.023e−09 ± 1.185e−12
1
0.8
0.6
0.4
0.2
0

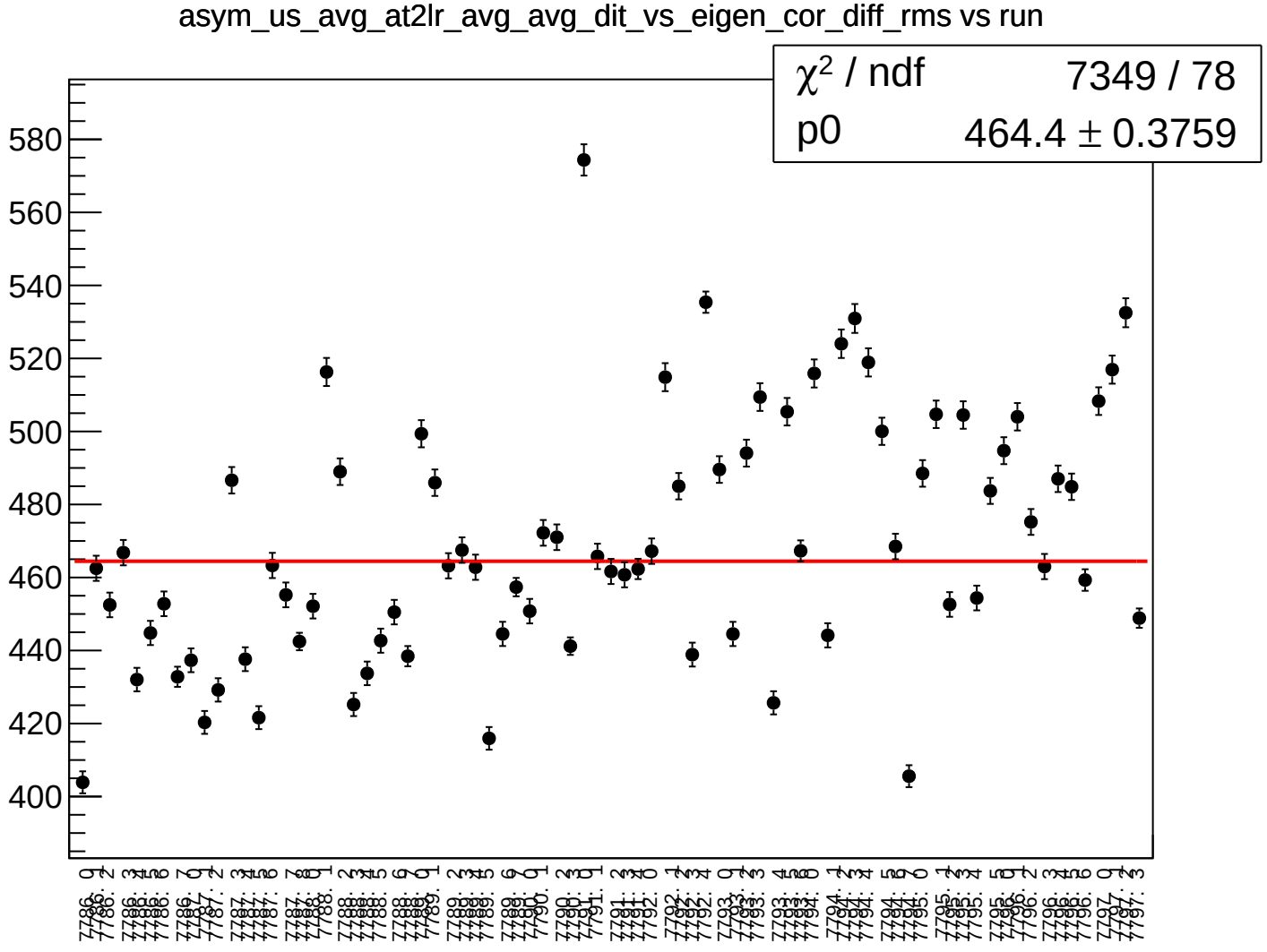

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.19 / 78
p0 0.3929 ± 0.5316
pull
Entries 79
Mean −253.1
Std Dev 0

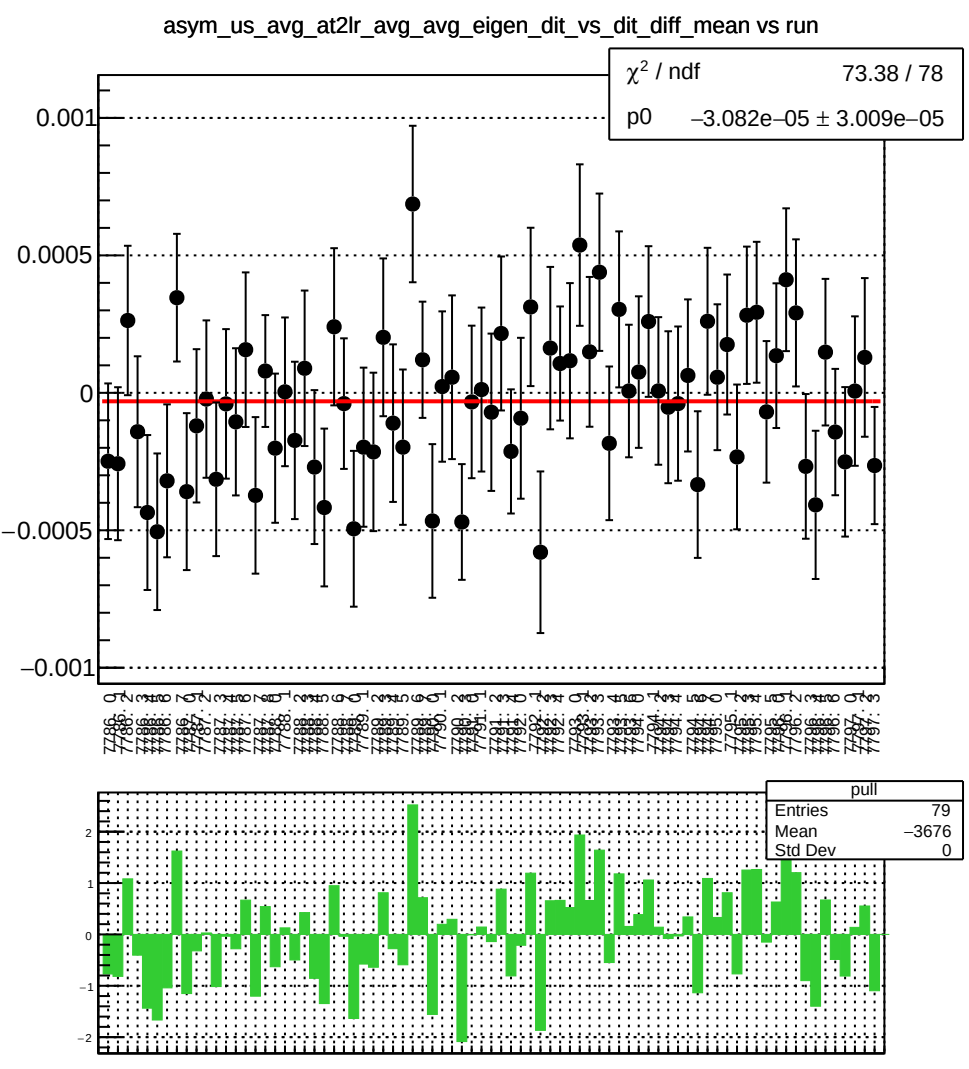

pull1D
Entries 79
Mean 0.004726
Std Dev 0.9222

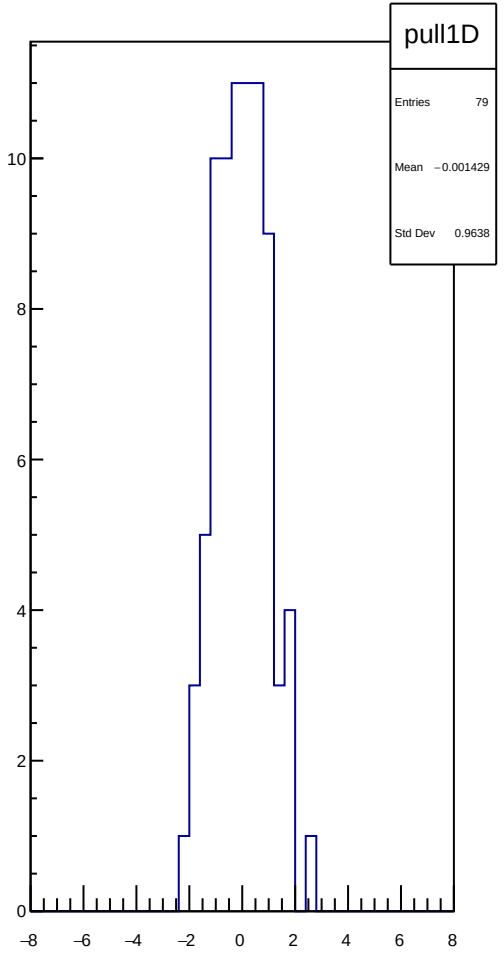

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7349 / 78
p0 464.4 ± 0.3759
580
560
540
520
500
480
460
440
420
400

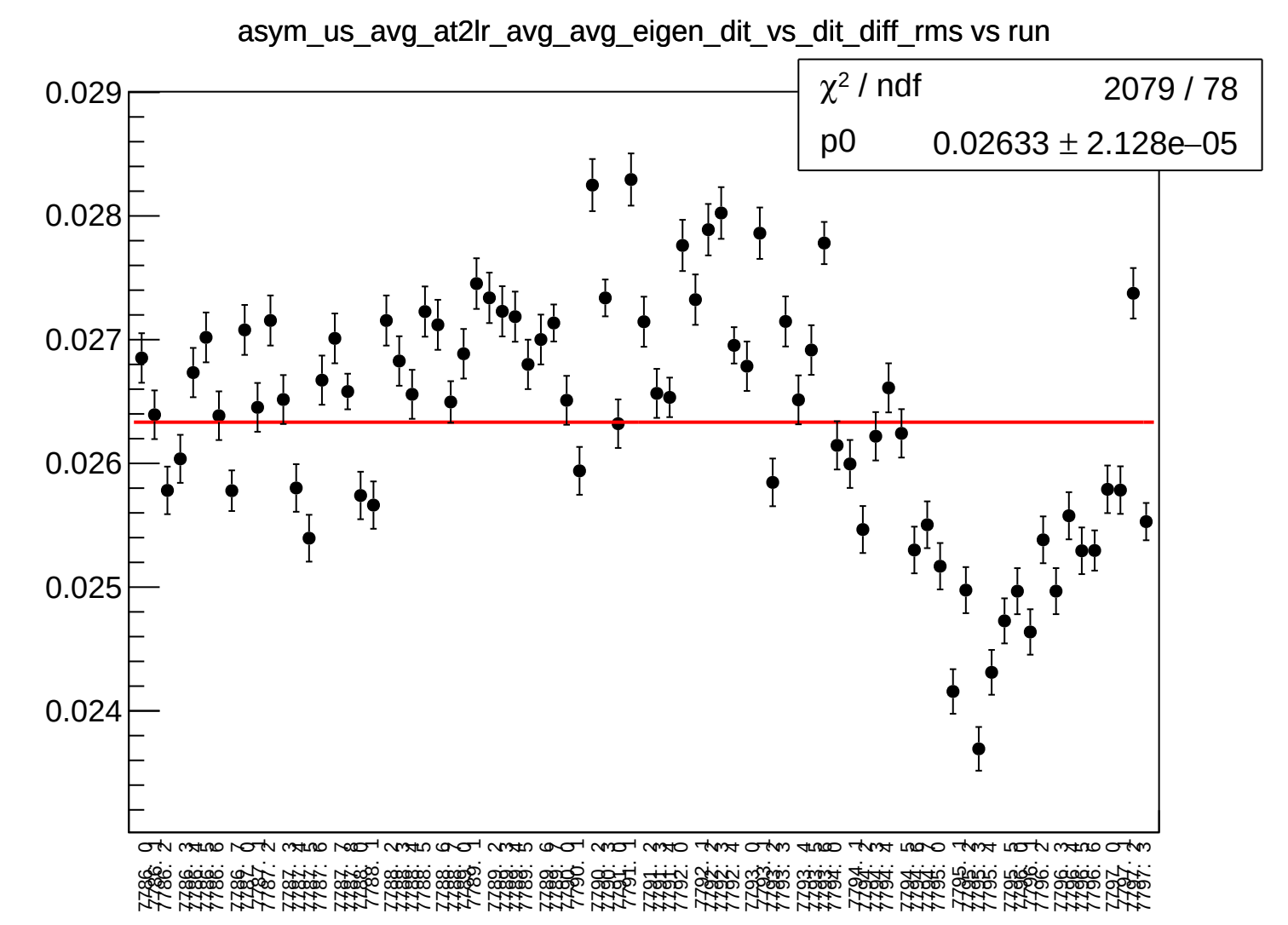

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.19 / 78
p0 0.3929 ± 0.5316
pull
Entries 79
Mean −253.1
Std Dev 0

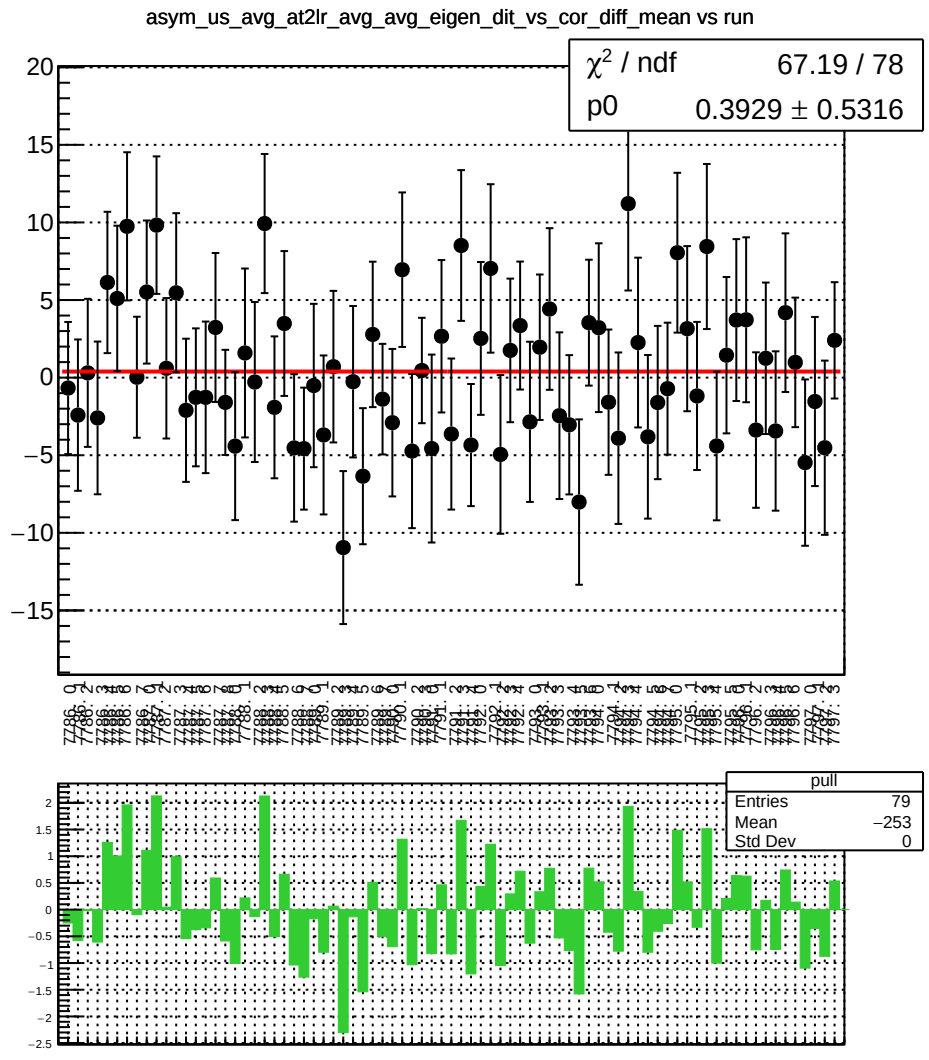

pull1D
Entries 79
Mean 0.004726
Std Dev 0.9222

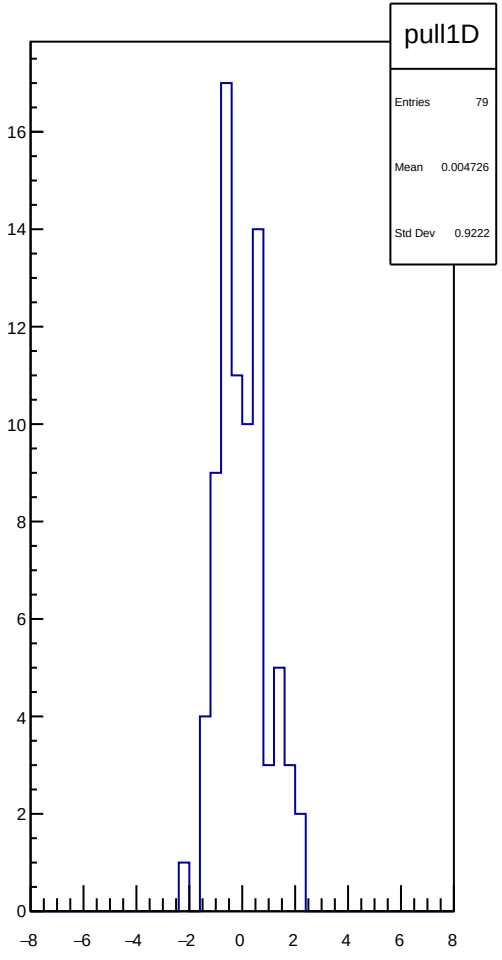

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7349 / 78
p0 464.4 ± 0.3759
580
560
540
520
500
480
460
440
420
400

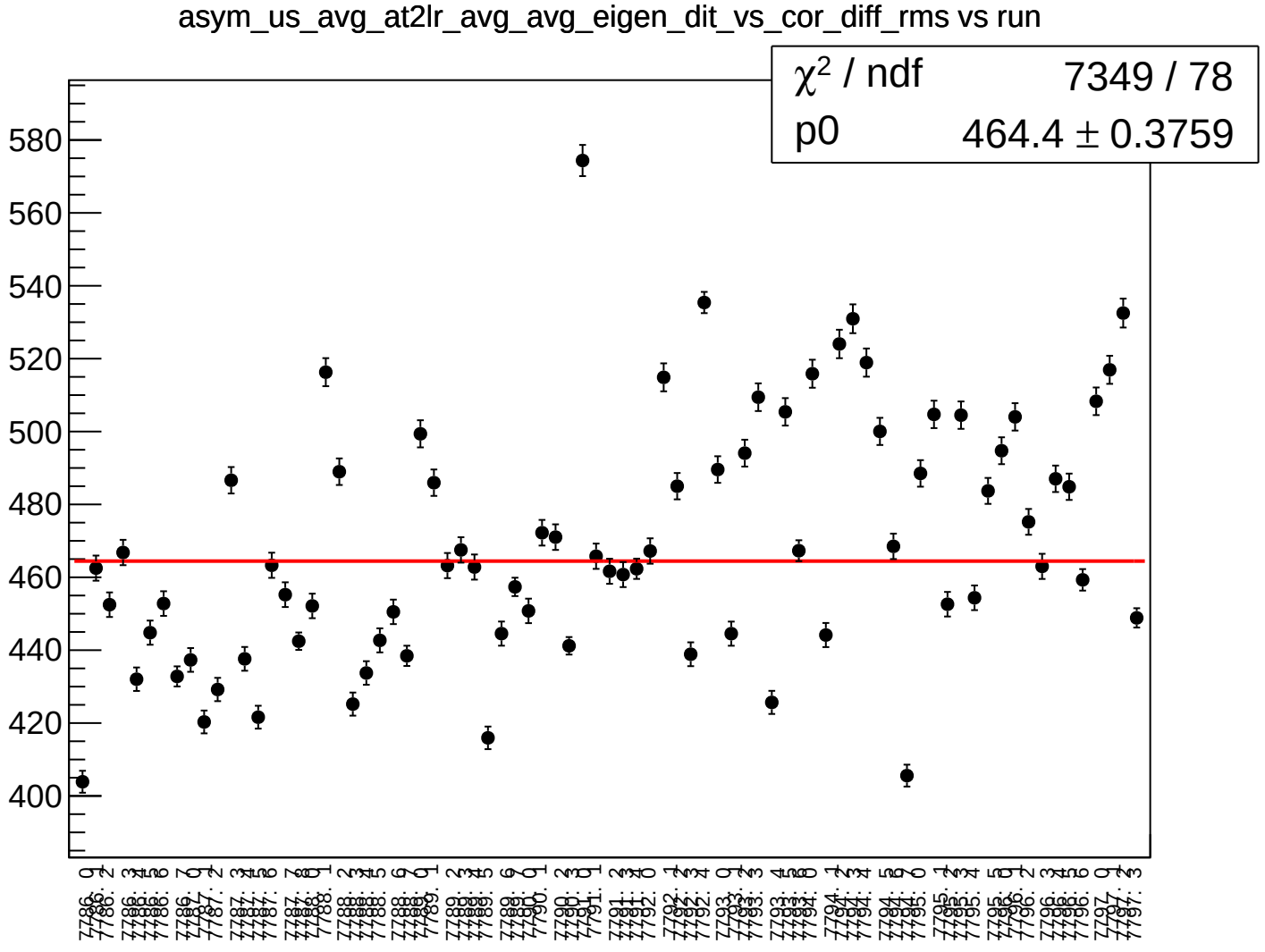

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.38 / 78
p0 −3.082e−05 ± 3.009e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 79
Mean −3676
Std Dev 0
2
1
0
−1
−2

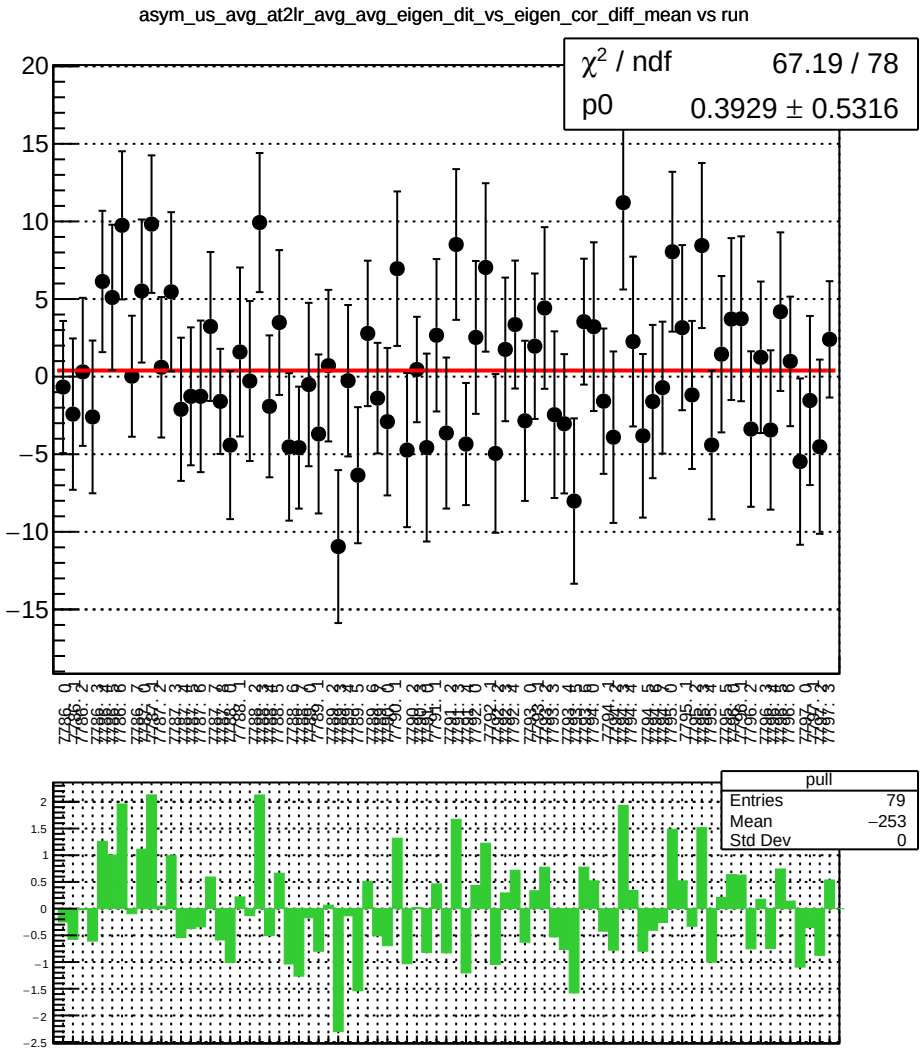

pull1D
Entries 79
Mean −0.001429
Std Dev 0.9638
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

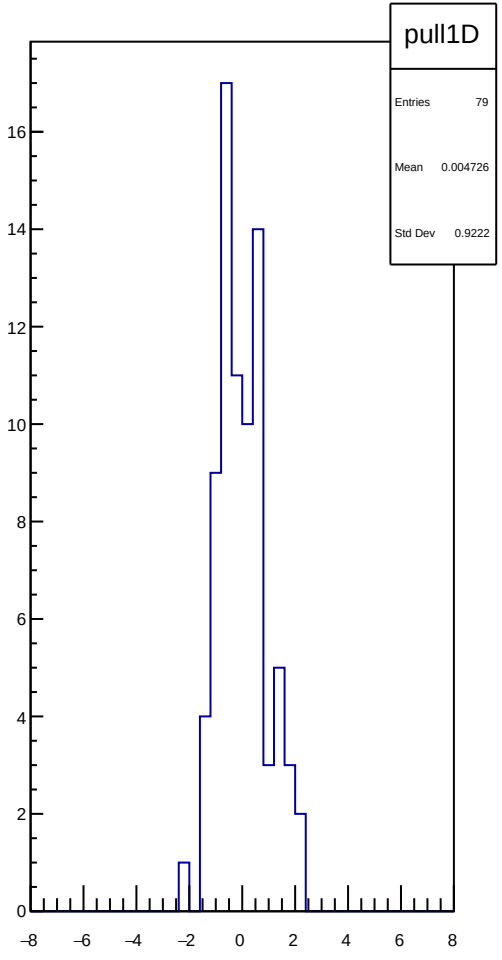

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2079 / 78
p0 0.02633 ± 2.128e−05
0.029
0.028
0.027
0.026
0.025
0.024

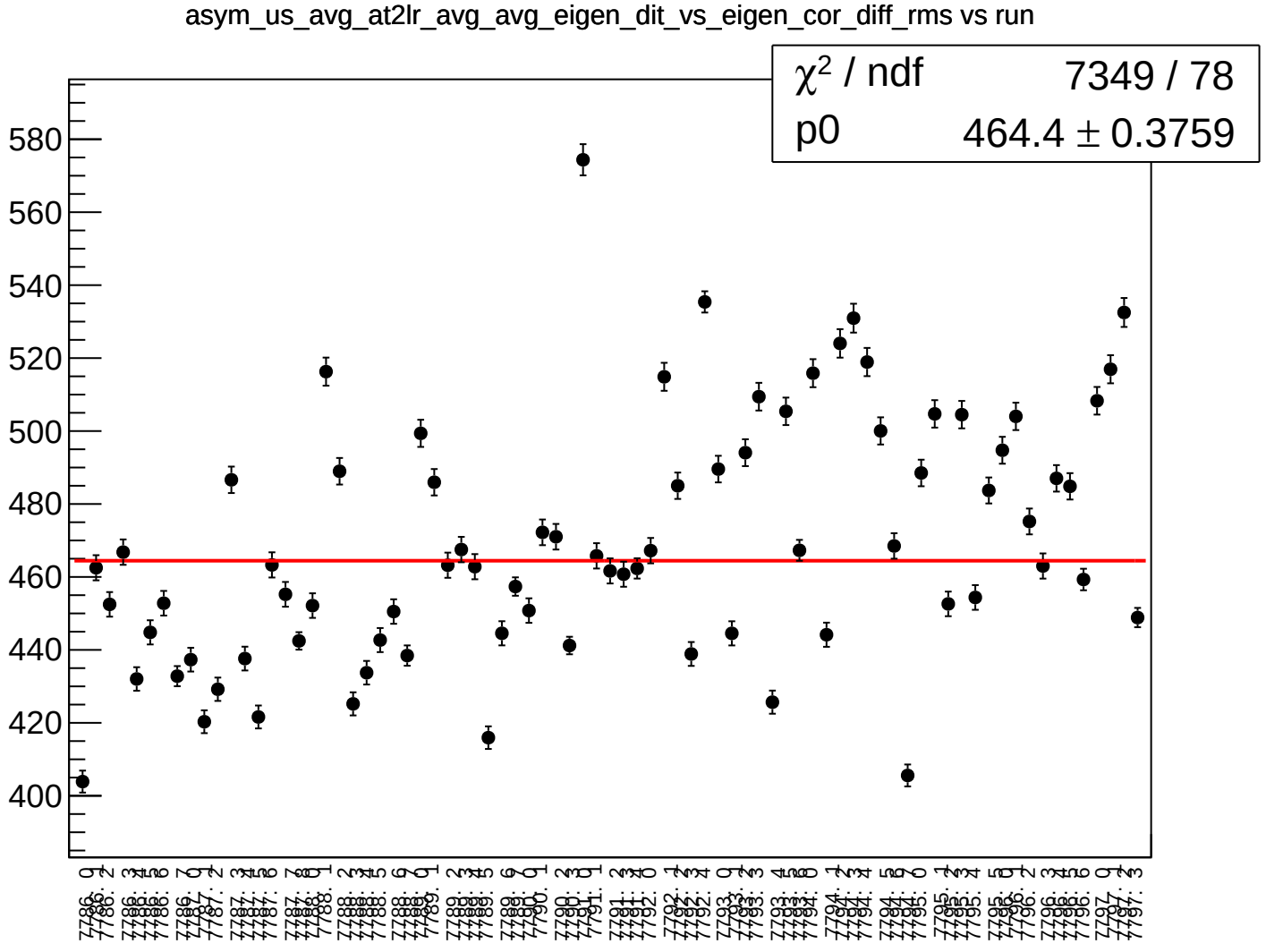

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.19 / 78
p0 0.3929 ± 0.5316
pull
Entries 79
Mean −253
Std Dev 0

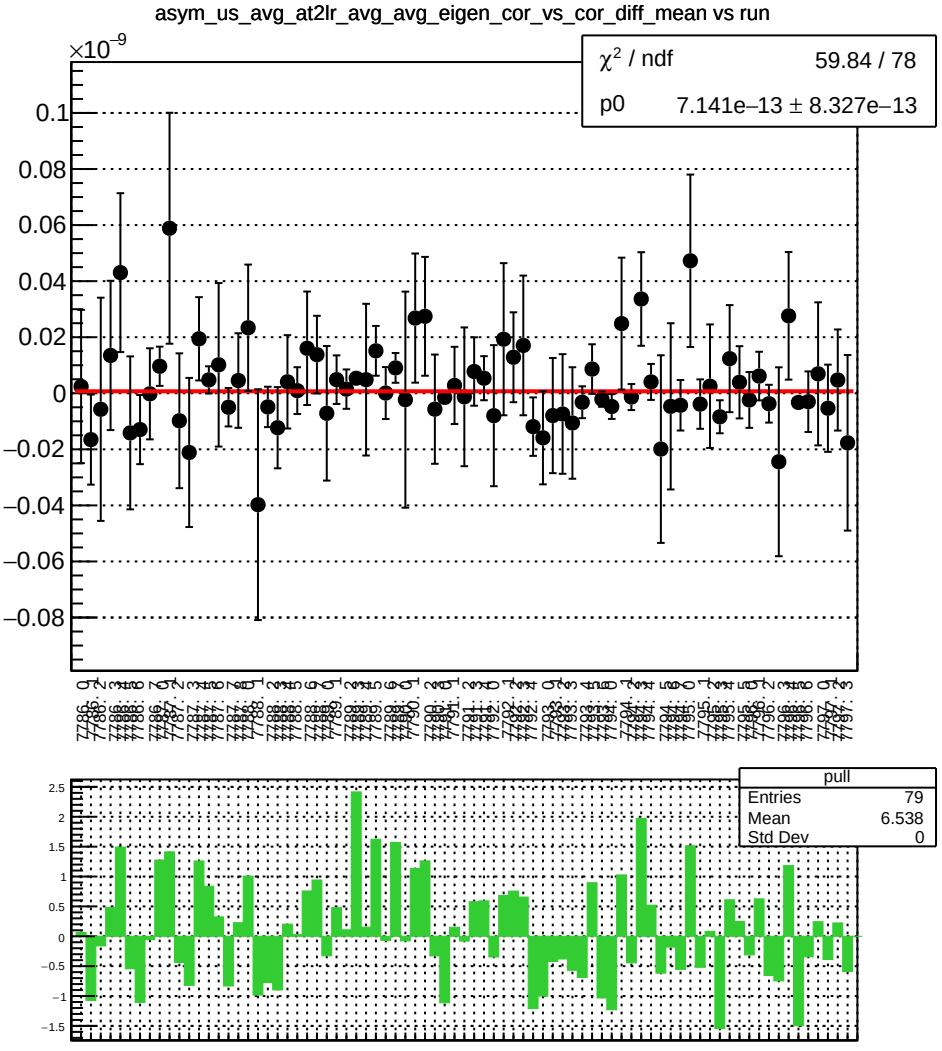

pull1D
Entries 79
Mean 0.004726
Std Dev 0.9222

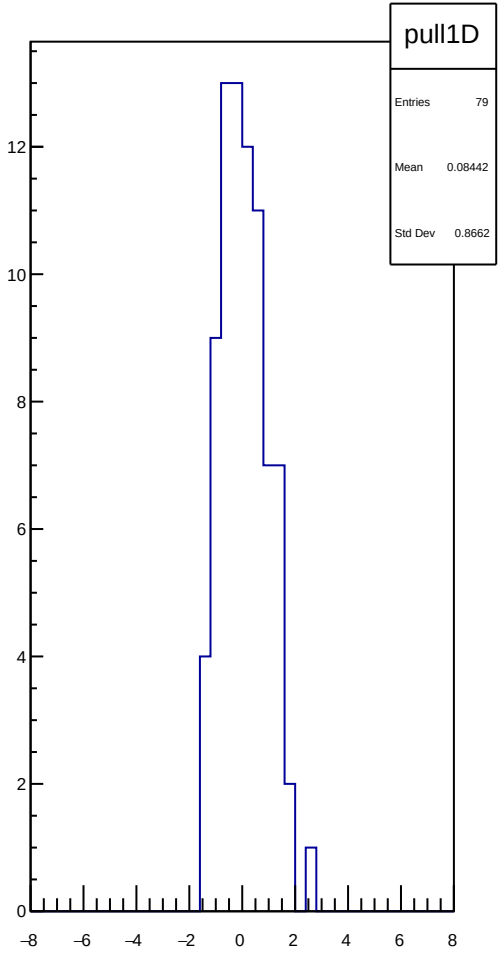

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7349 / 78
p0 464.4 ± 0.3759
580
560
540
520
500
480
460
440
420
400

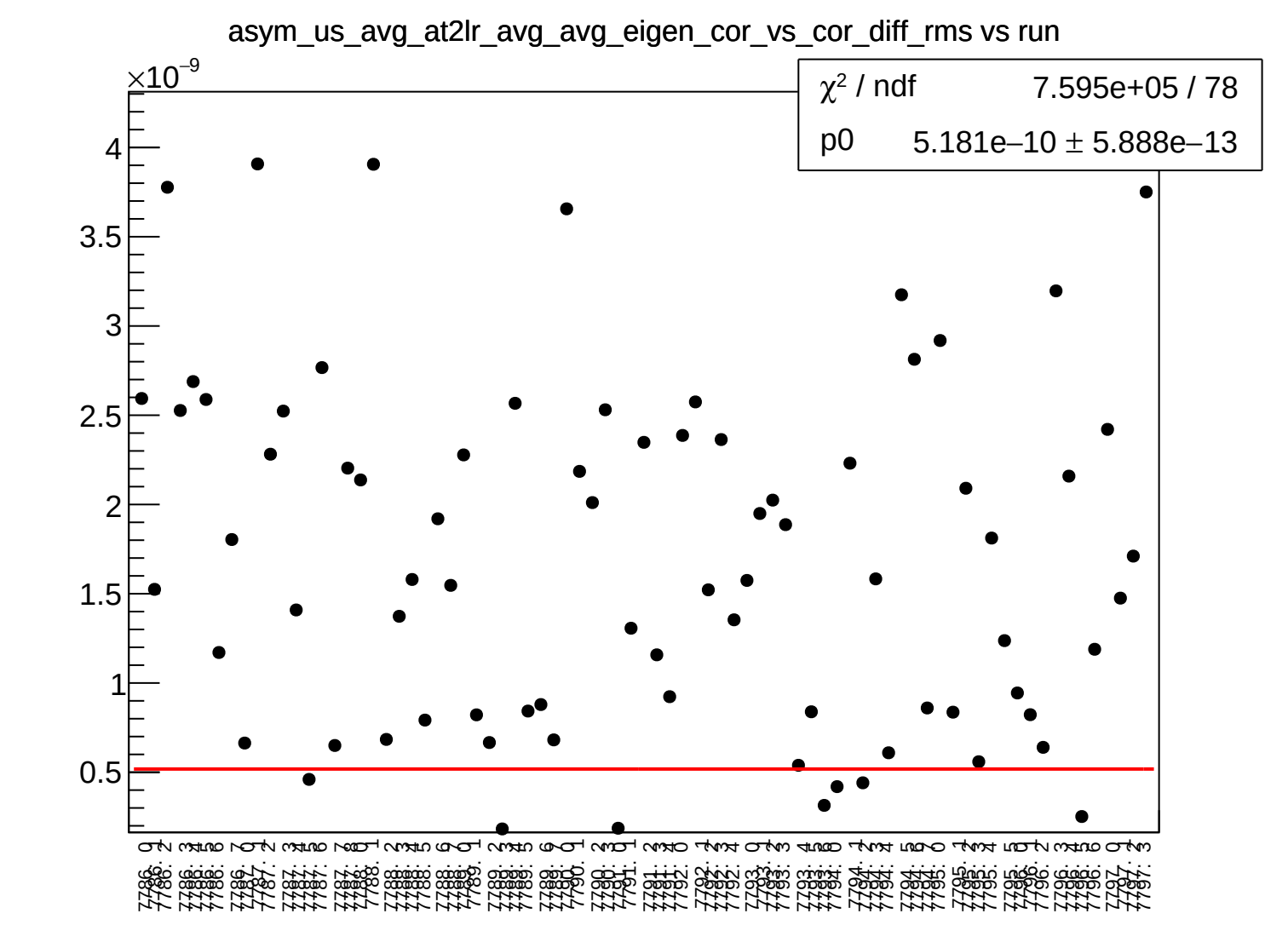

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.19 / 78
p0 0.3929 ± 0.5316
pull
Entries 79
Mean −253
Std Dev 0

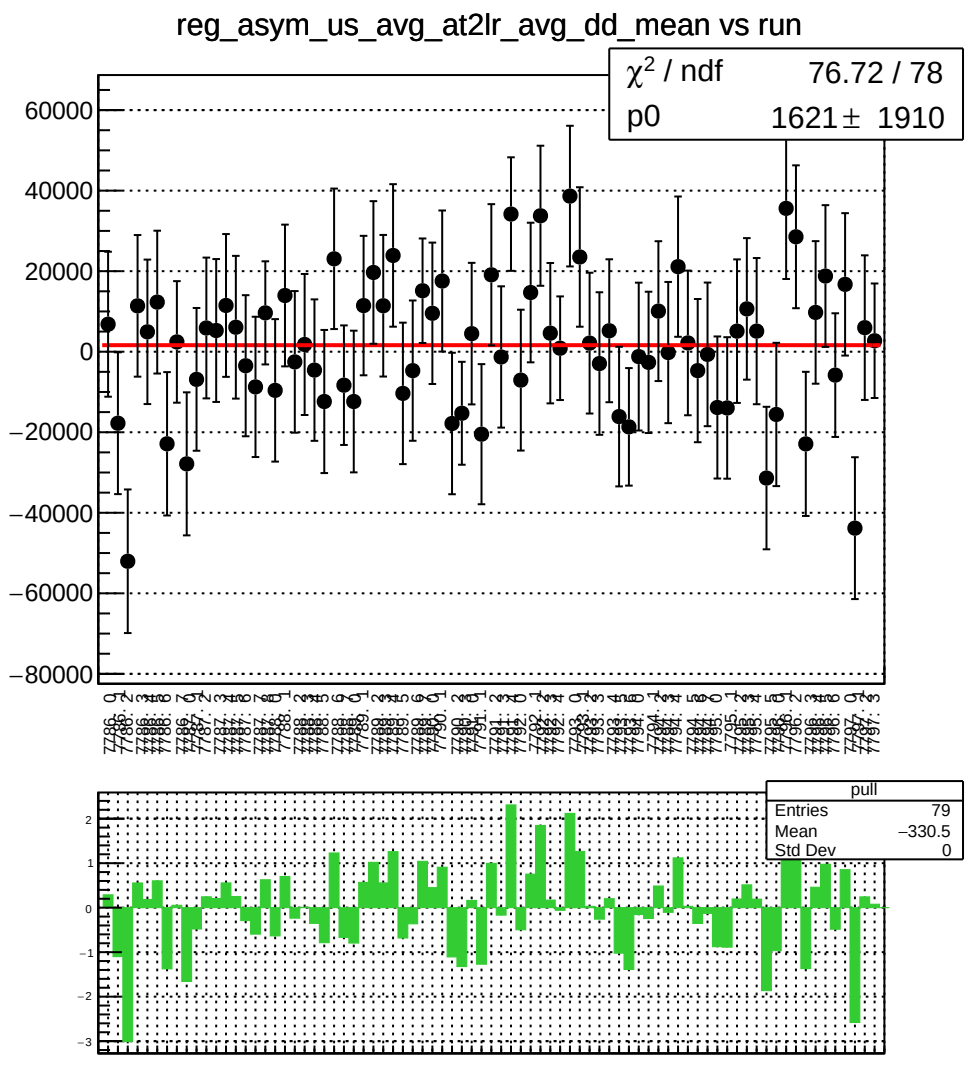

pull1D
Entries 79
Mean 0.004726
Std Dev 0.9222

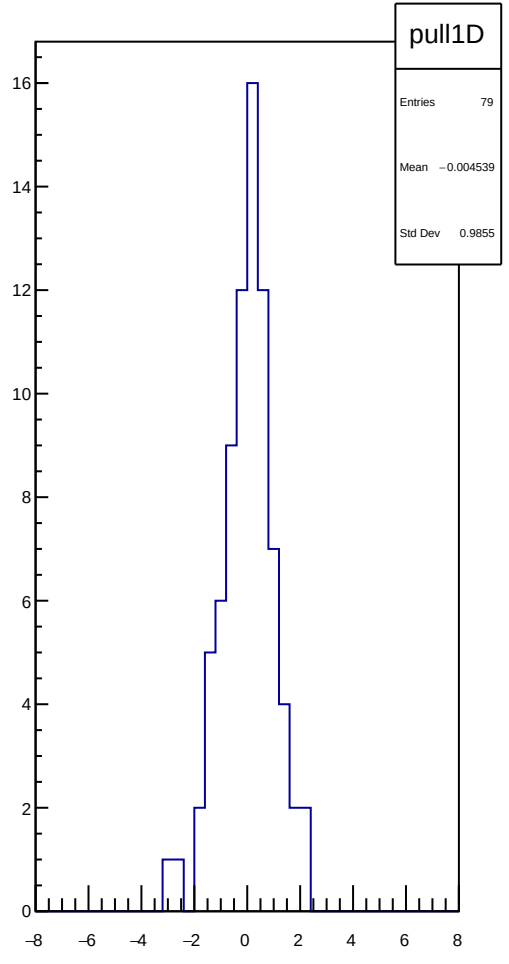

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7349 / 78
p0 464.4 ± 0.3759
580
560
540
520
500
480
460
440
420
400

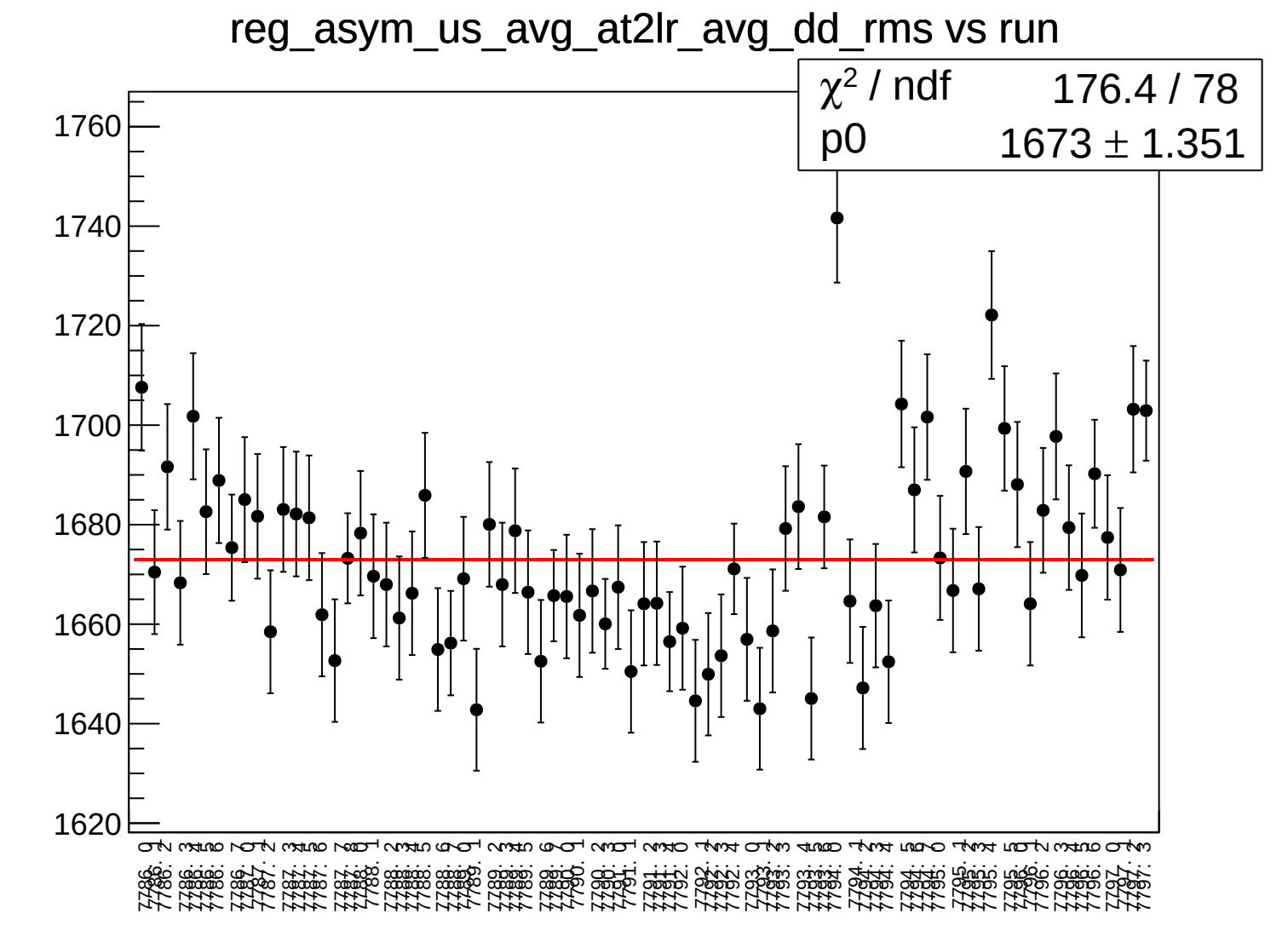

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 59.84 / 78
p0 7.141e−13 ± 8.327e−13
pull
Entries 79
Mean 6.538
Std Dev 0

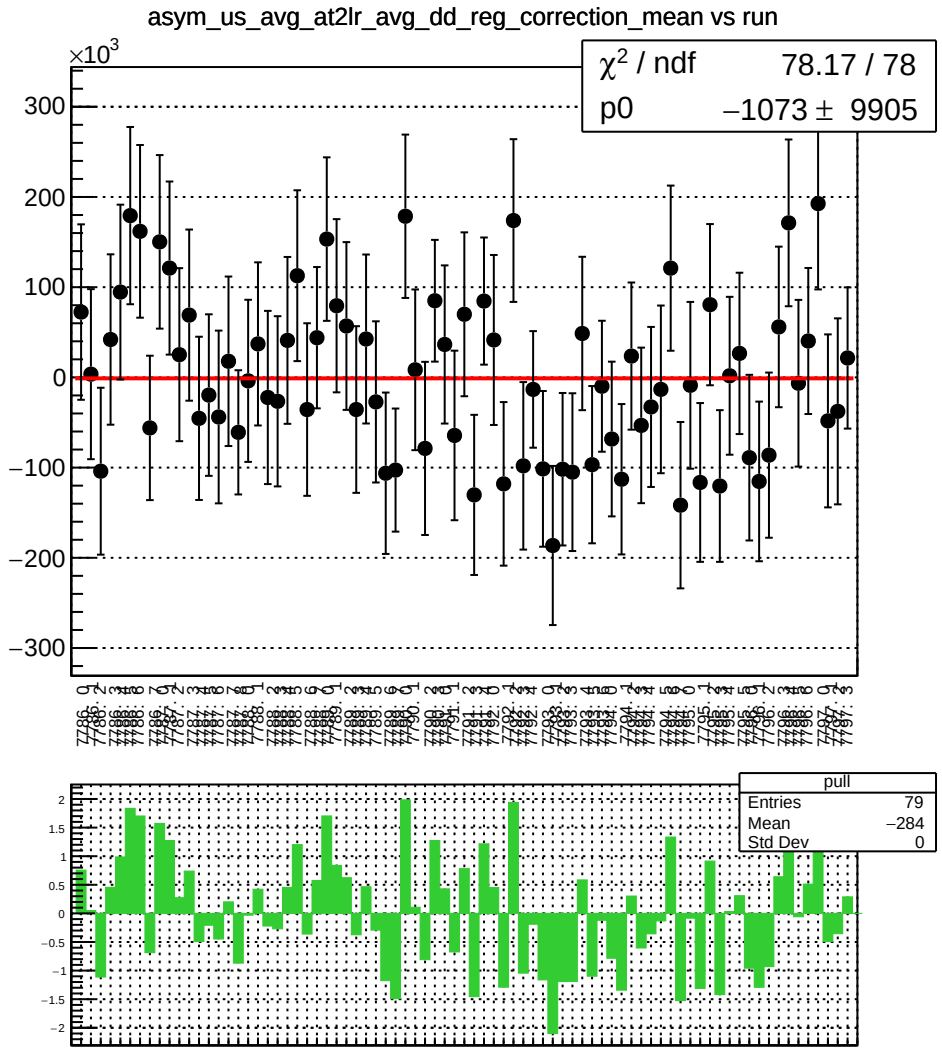

pull1D
Entries 79
Mean 0.08442
Std Dev 0.8662

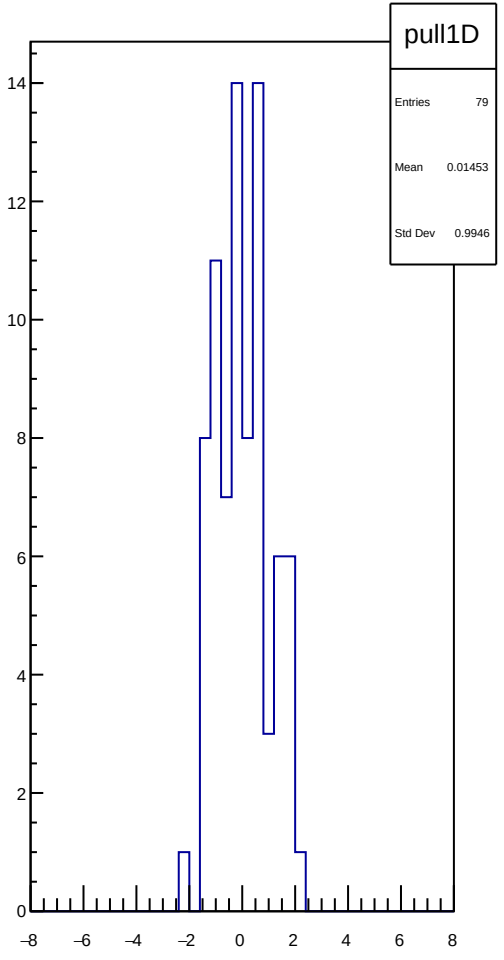

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.595e+05 / 78
p0 5.181e−10 ± 5.888e−13
4
3.5
3
2.5
2
1.5
1
0.5

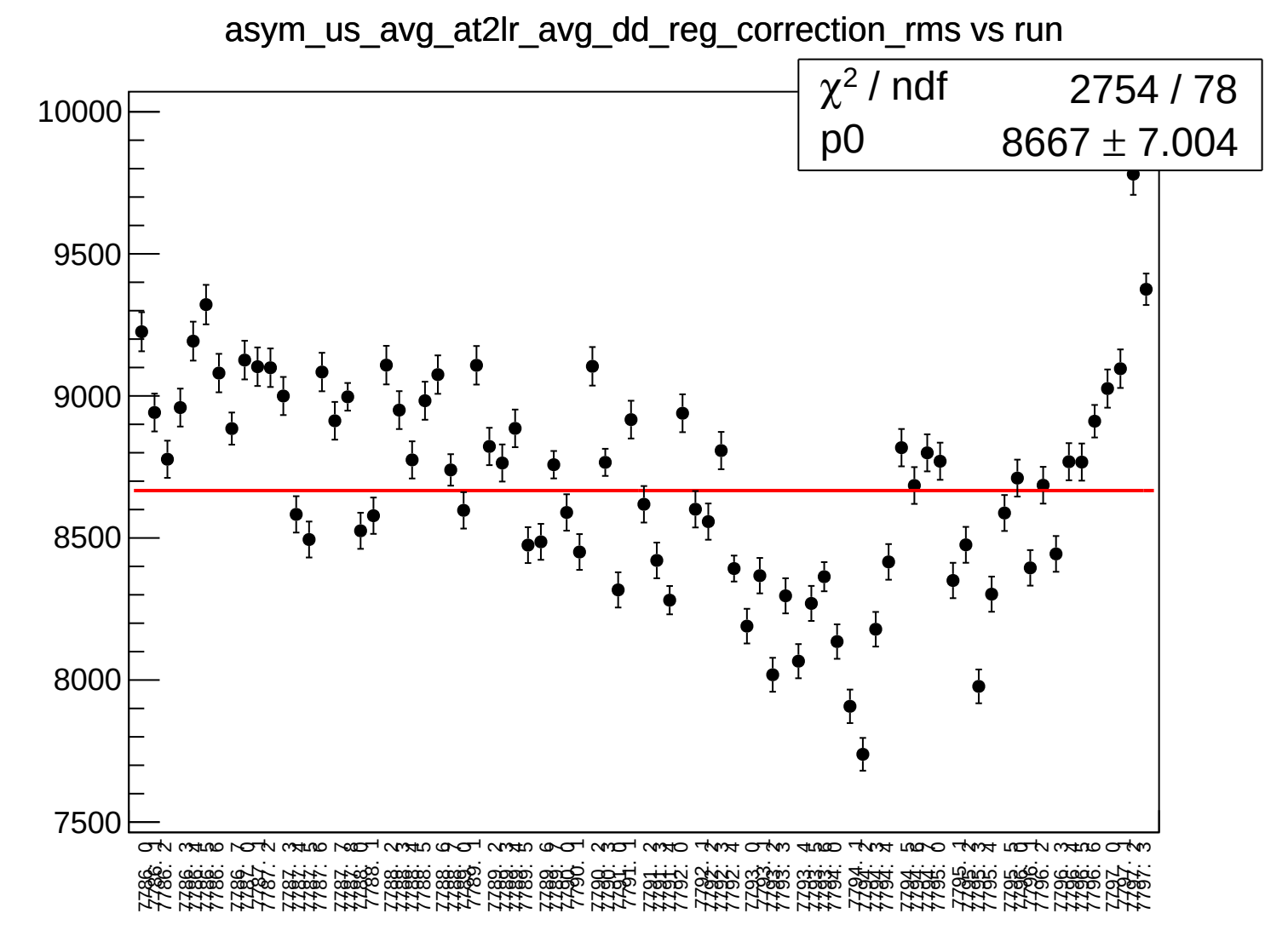

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 76.72 / 78
p0 1621 ± 1910
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean −330.5
Std Dev 0
2
1
0
−1
−2
−3

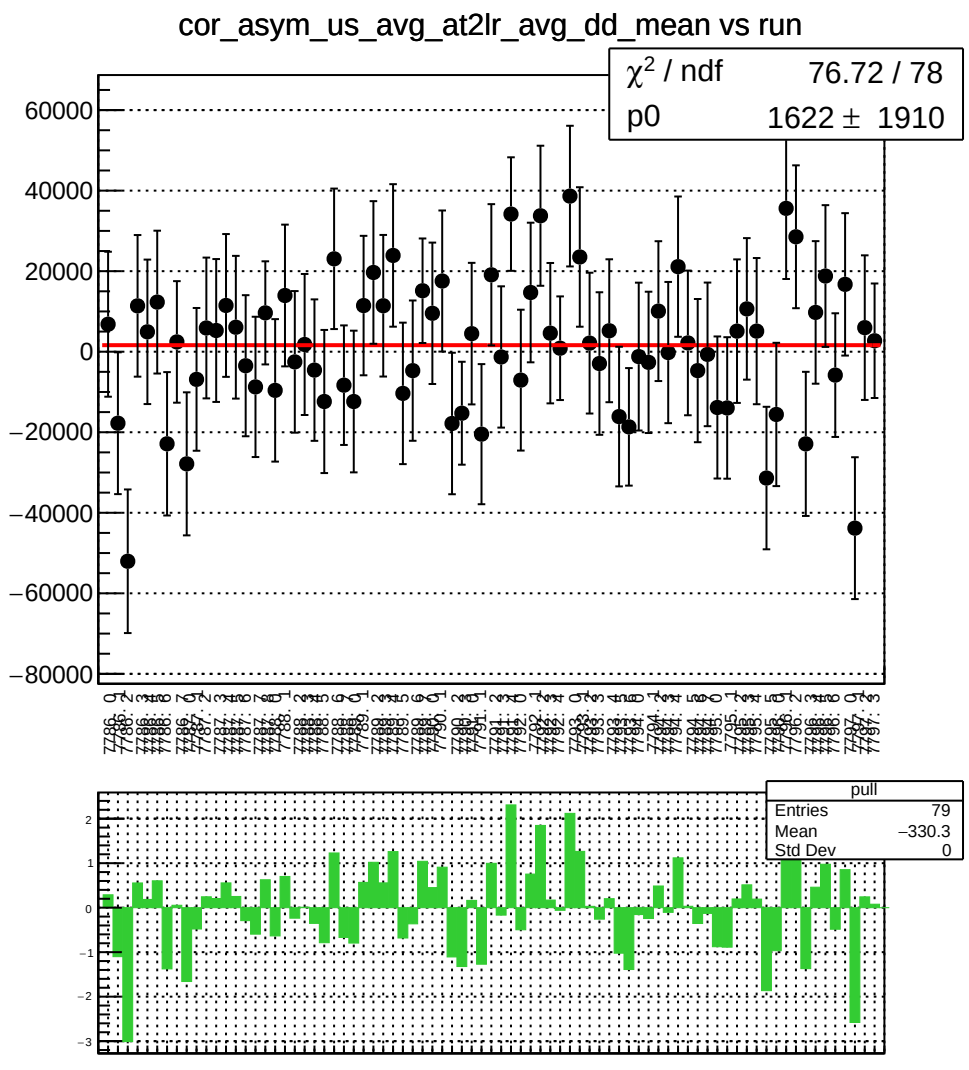

pull1D
Entries 79
Mean −0.004539
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

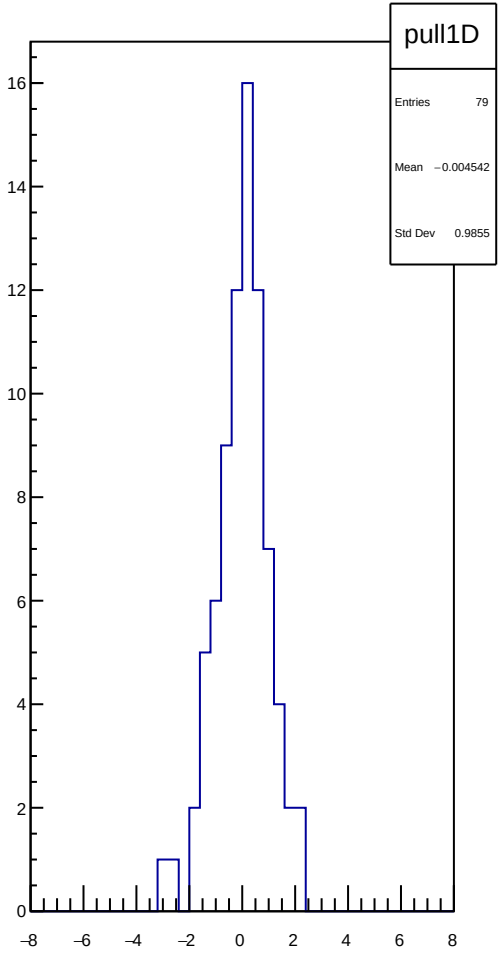

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 176.4 / 78
p0 1673 ± 1.351
1760
1740
1720
1700
1680
1660
1640
1620

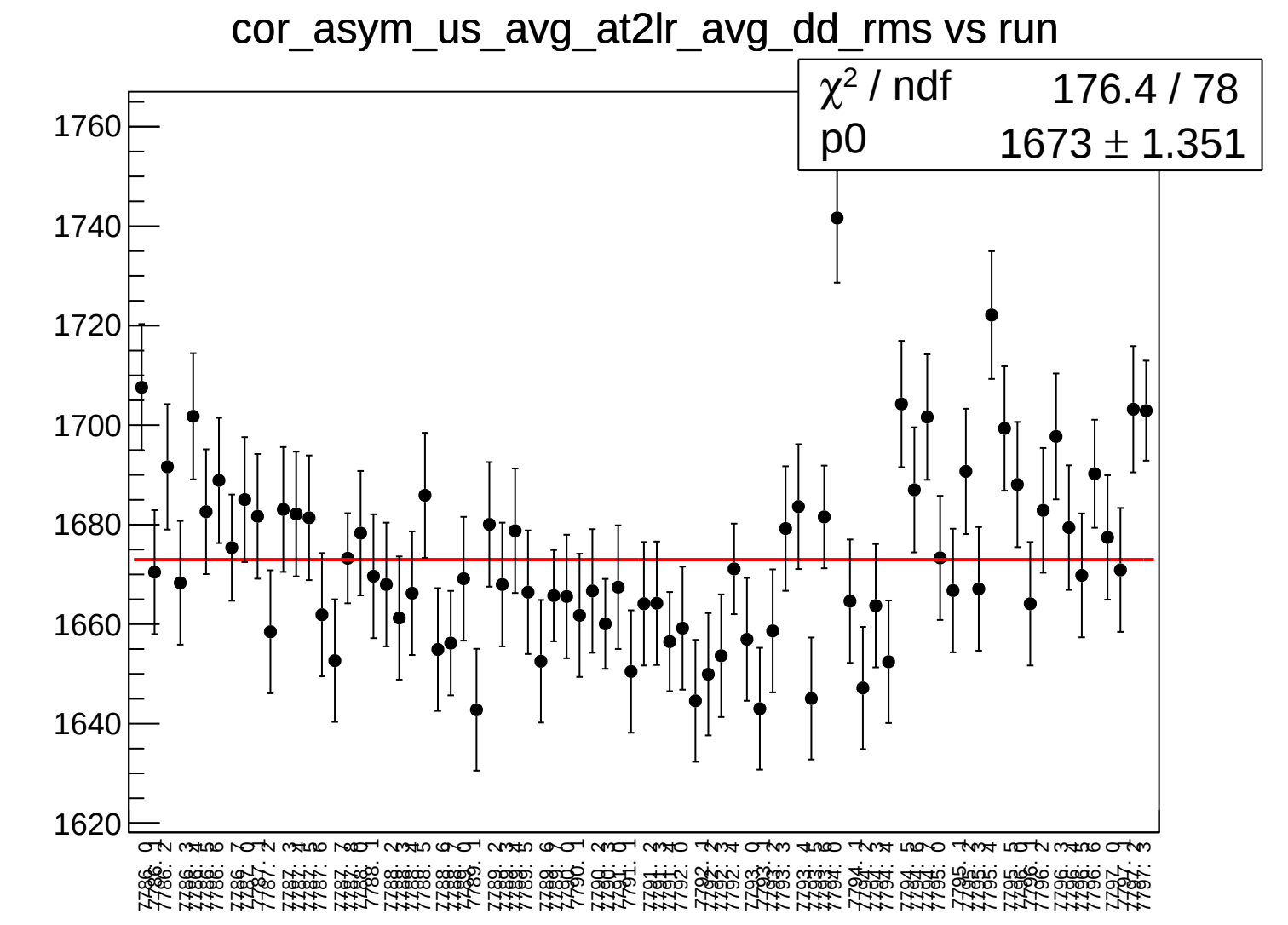

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.17 / 78
p0 −1073 ± 9905
pull
Entries 79
Mean −284
Std Dev 0

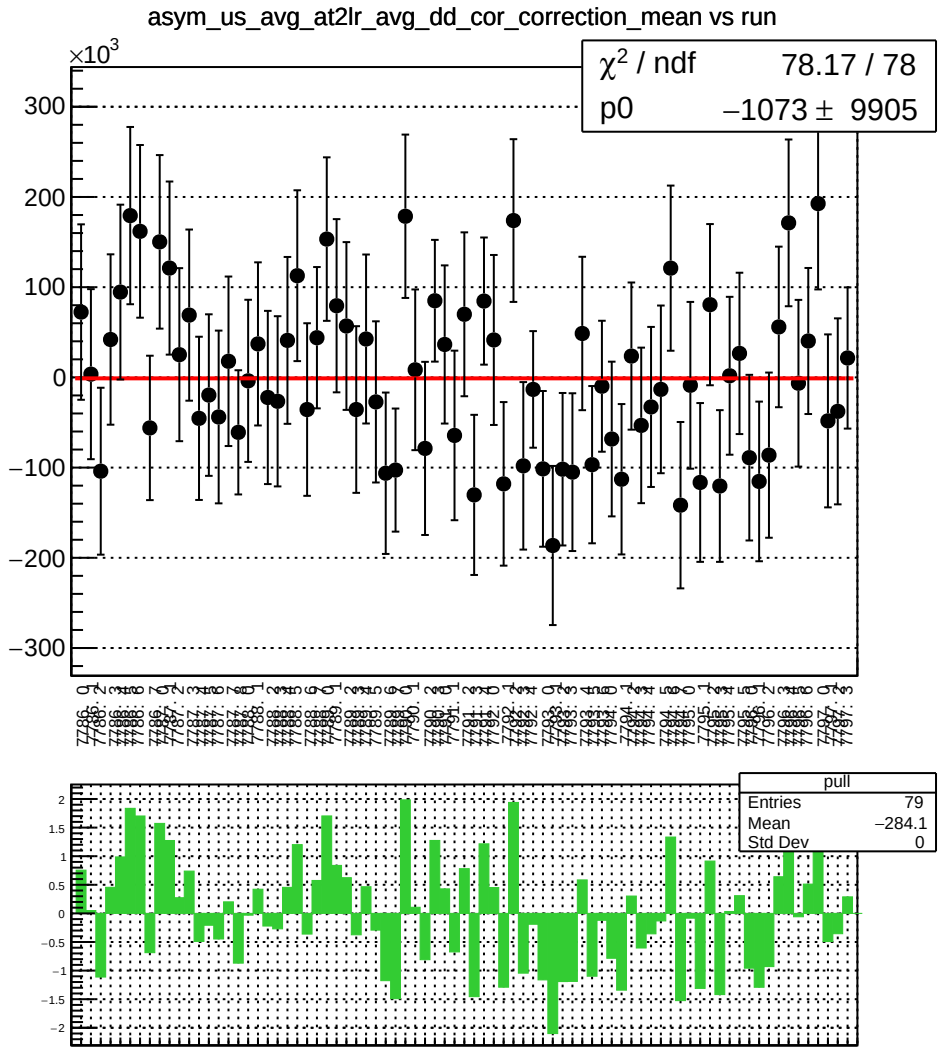

pull1D
Entries 79
Mean 0.01453
Std Dev 0.9946

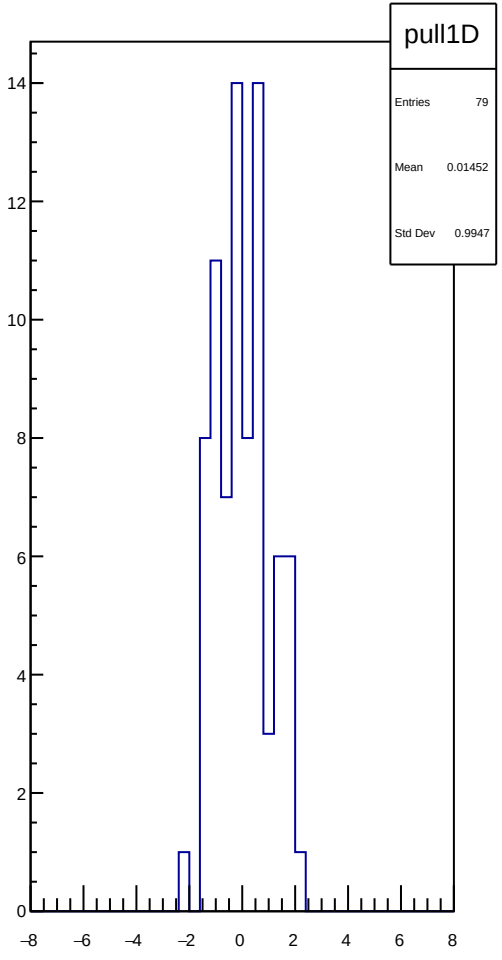

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2754 / 78
p0 8667 ± 7.004
10000
9500
9000
8500
8000
7500

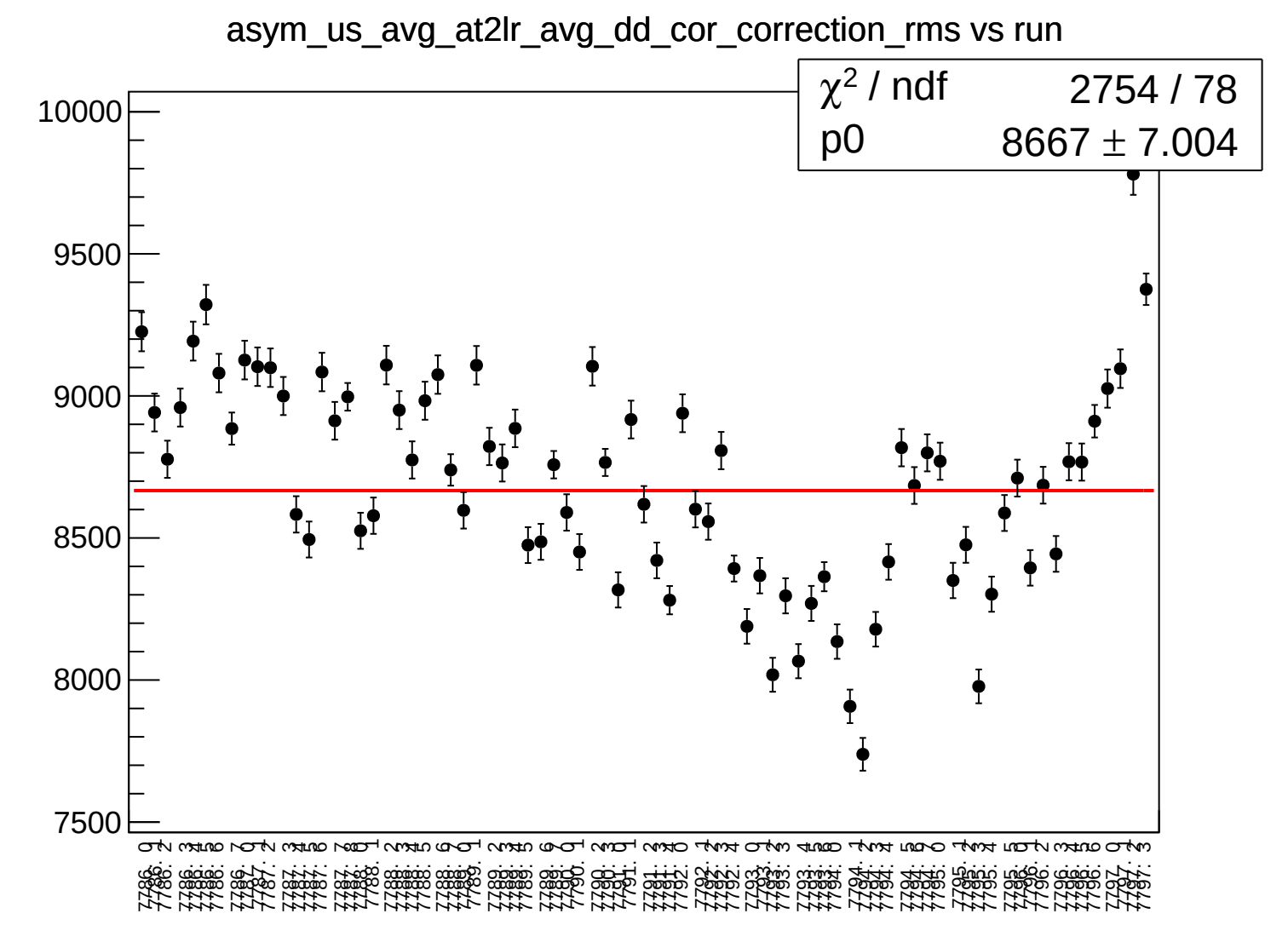

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 76.72 / 78
p0 1622 ± 1910
pull
Entries 79
Mean −330.3
Std Dev 0

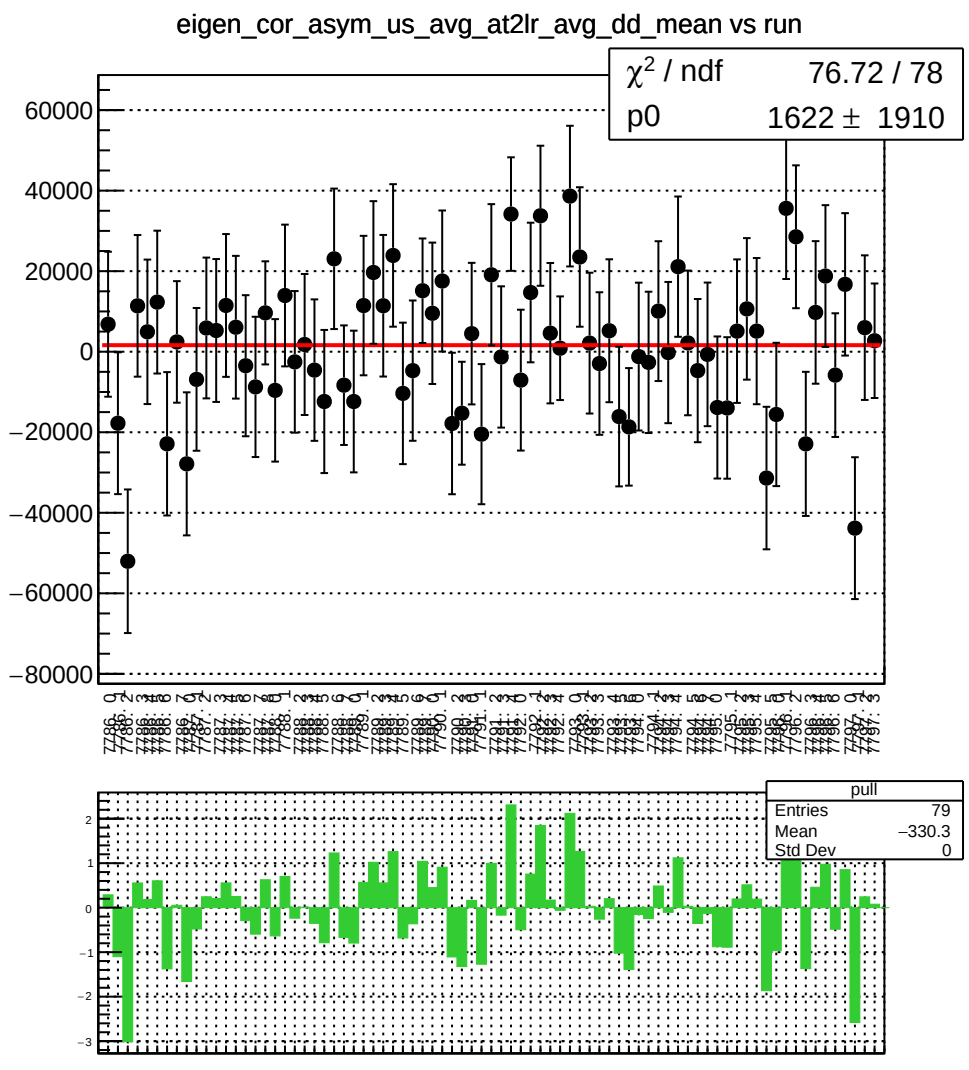

pull1D
Entries 79
Mean −0.004542
Std Dev 0.9855

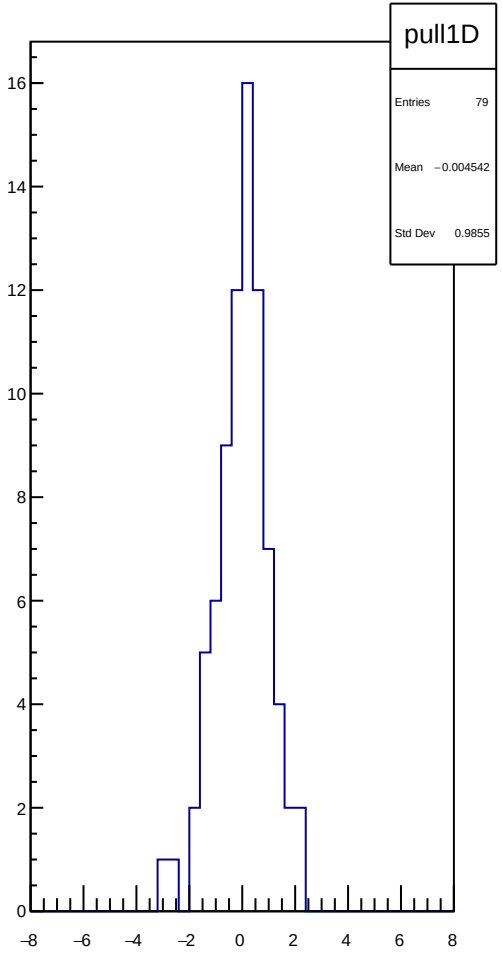

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 176.4 / 78
p0 1673 ± 1.351
1760
1740
1720
1700
1680
1660
1640
1620

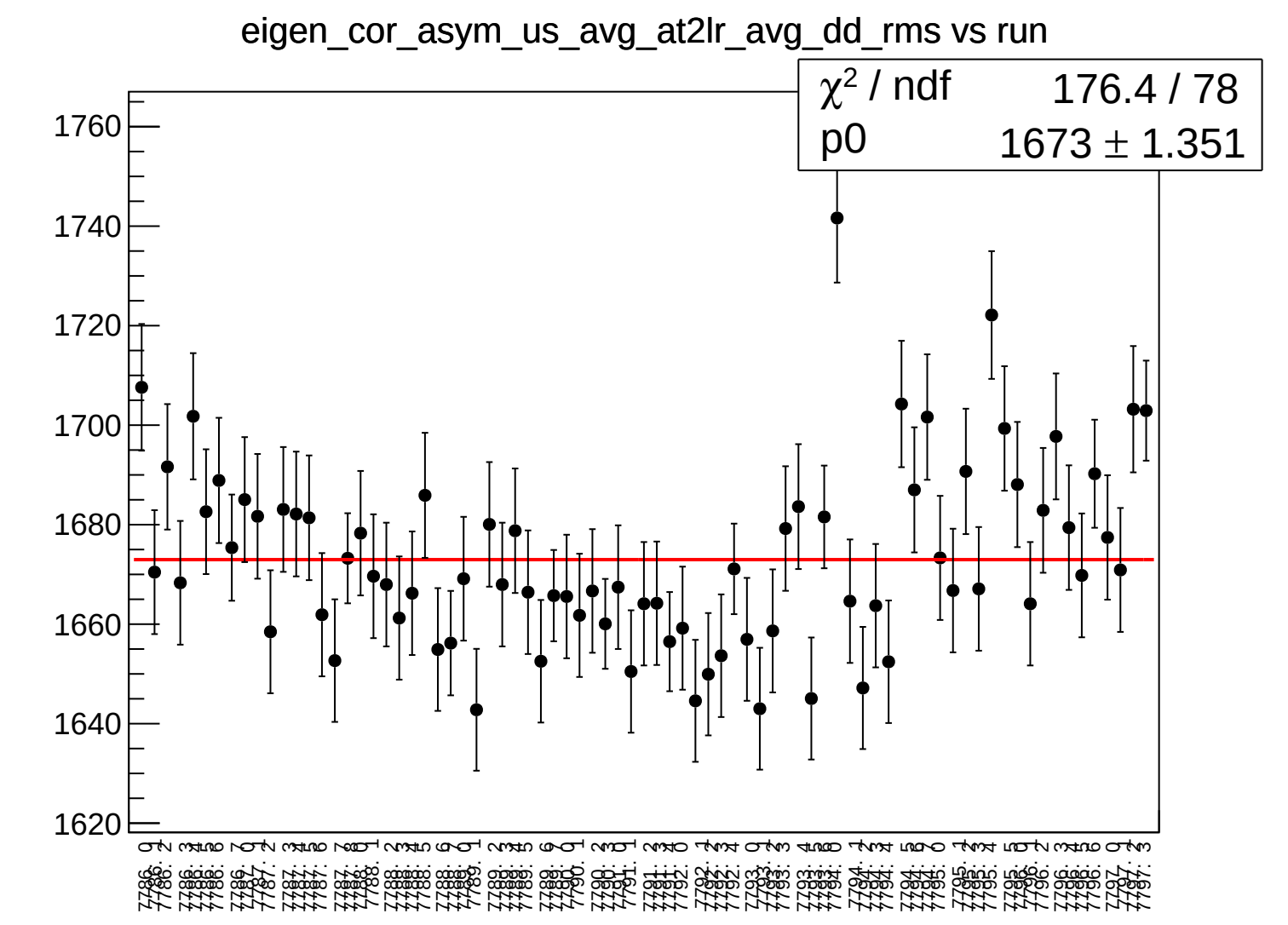

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.17 / 78
p0 −1073 ± 9905
pull
Entries 79
Mean −284.1
Std Dev 0

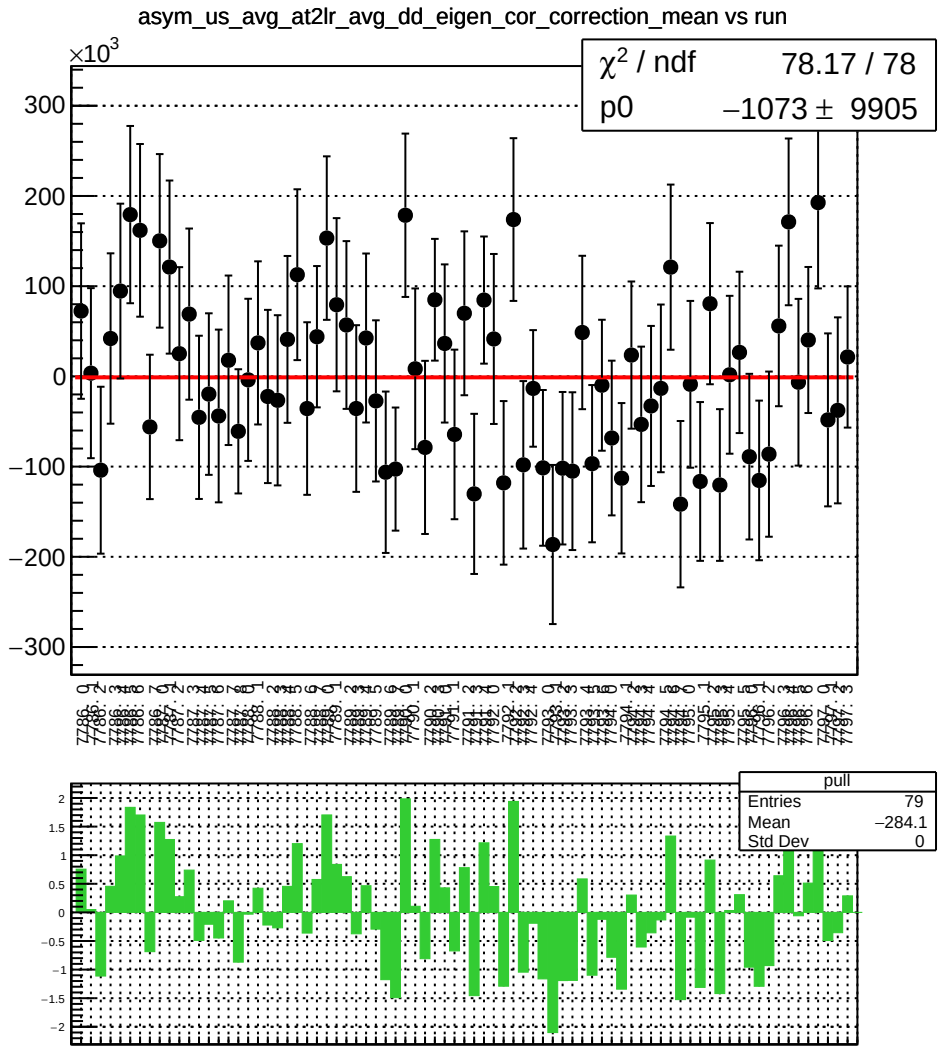

pull1D
Entries 79
Mean 0.01452
Std Dev 0.9947

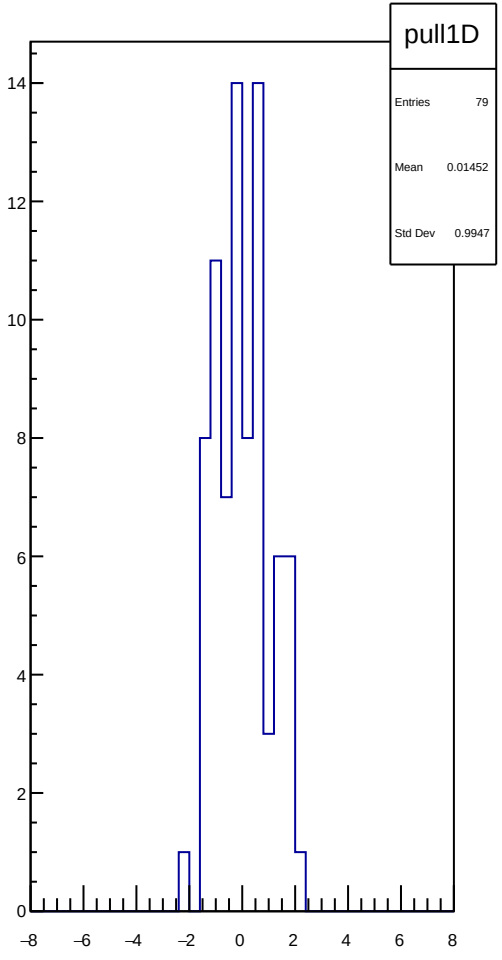

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2754 / 78
p0 8667 ± 7.004
10000
9500
9000
8500
8000
7500

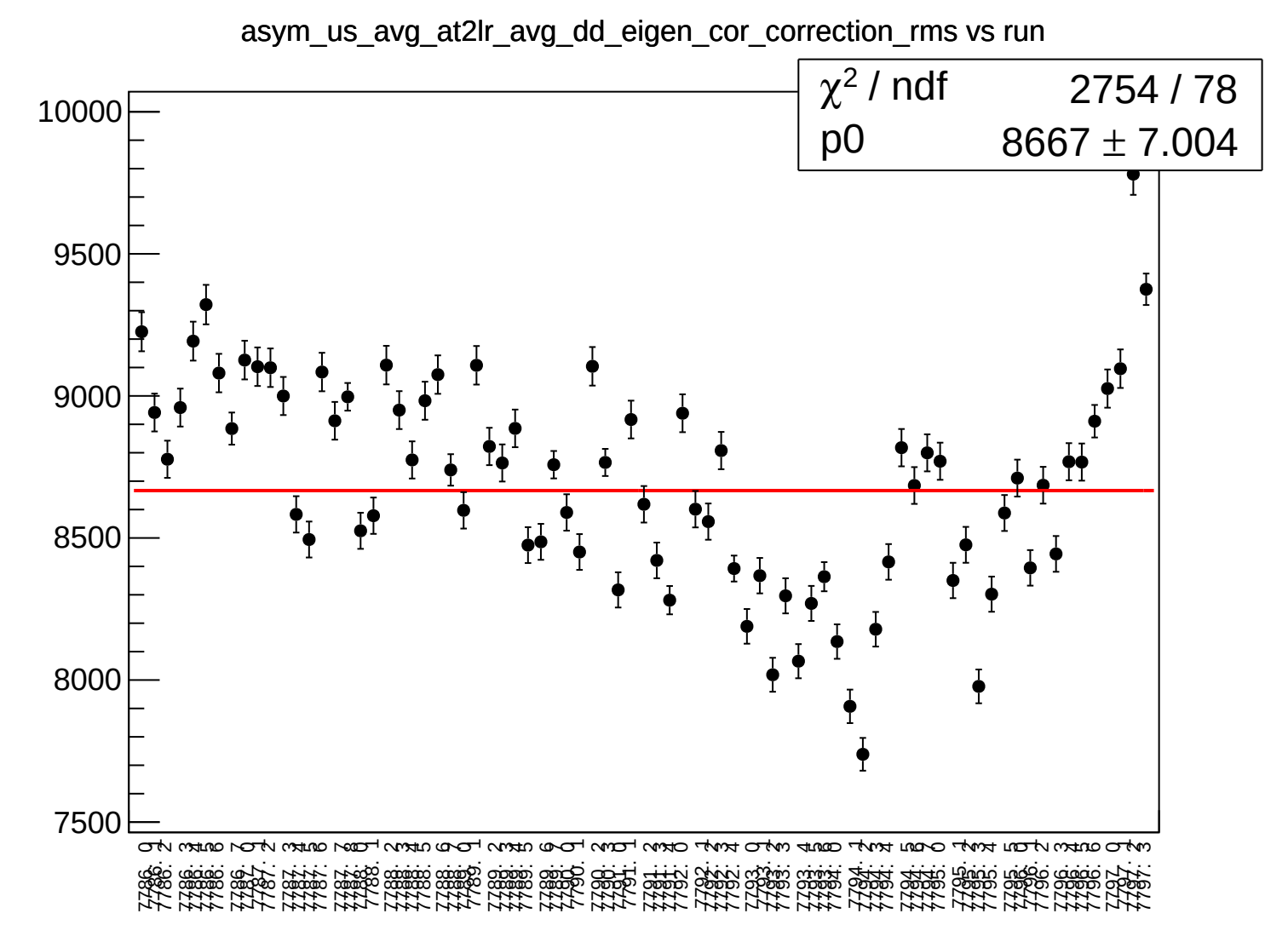

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 76.72 / 78
p0 1622 ± 1910
pull
Entries 79
Mean −330.3
Std Dev 0

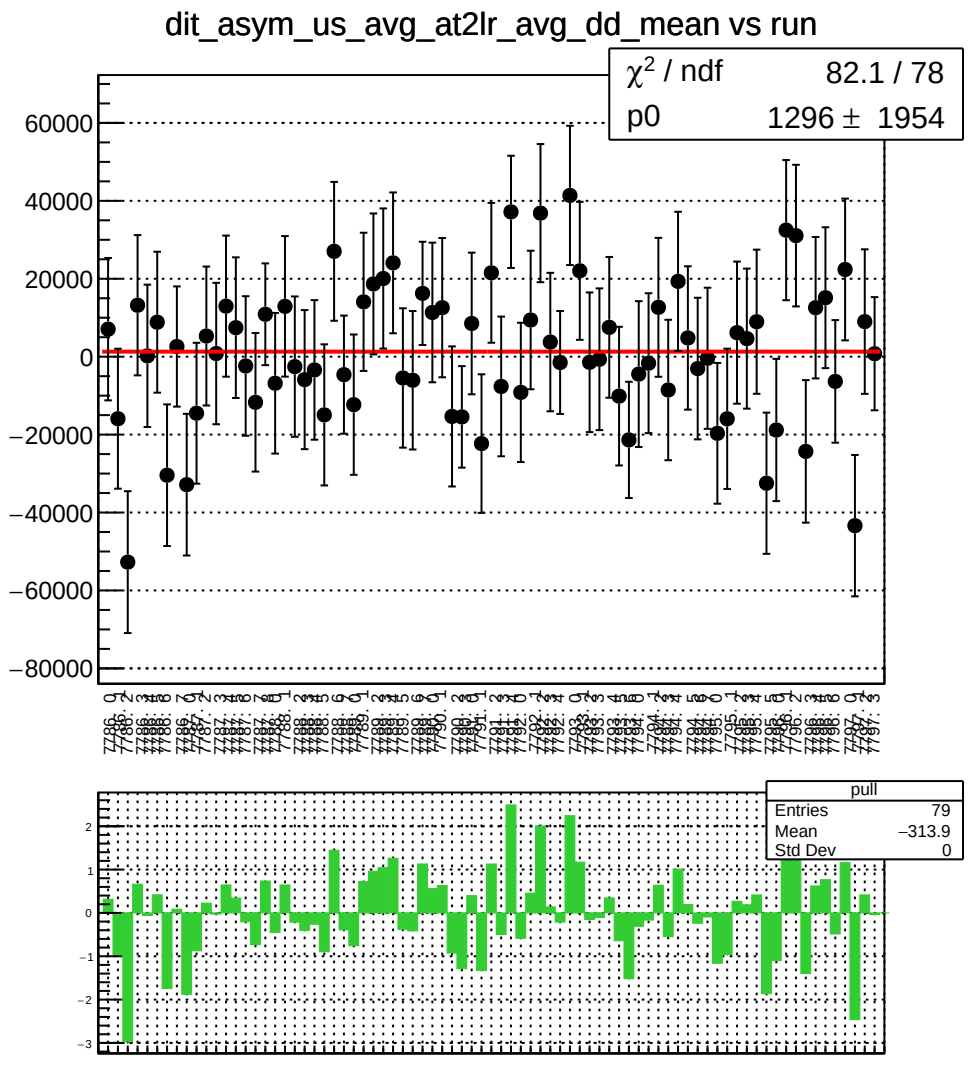

pull1D
Entries 79
Mean −0.004542
Std Dev 0.9855

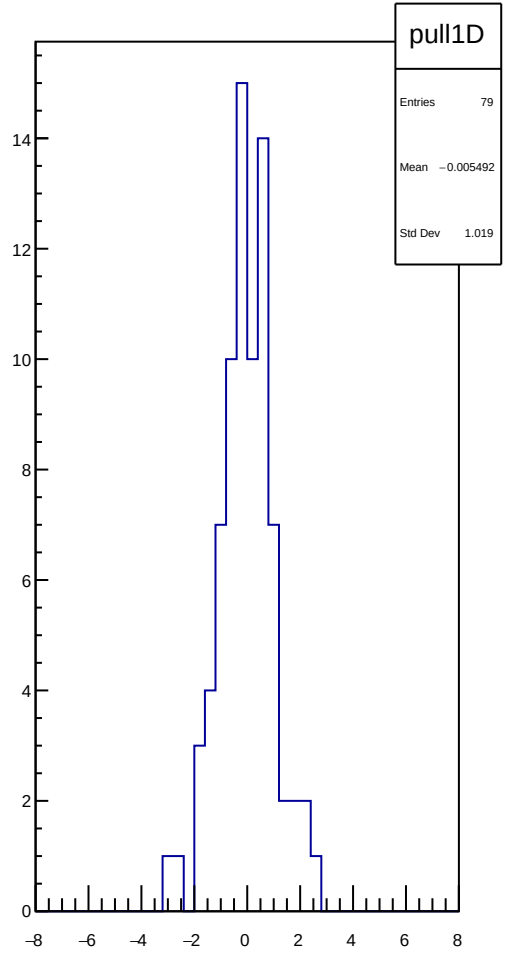

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 176.4 / 78
p0 1673 ± 1.351
1760
1740
1720
1700
1680
1660
1640
1620

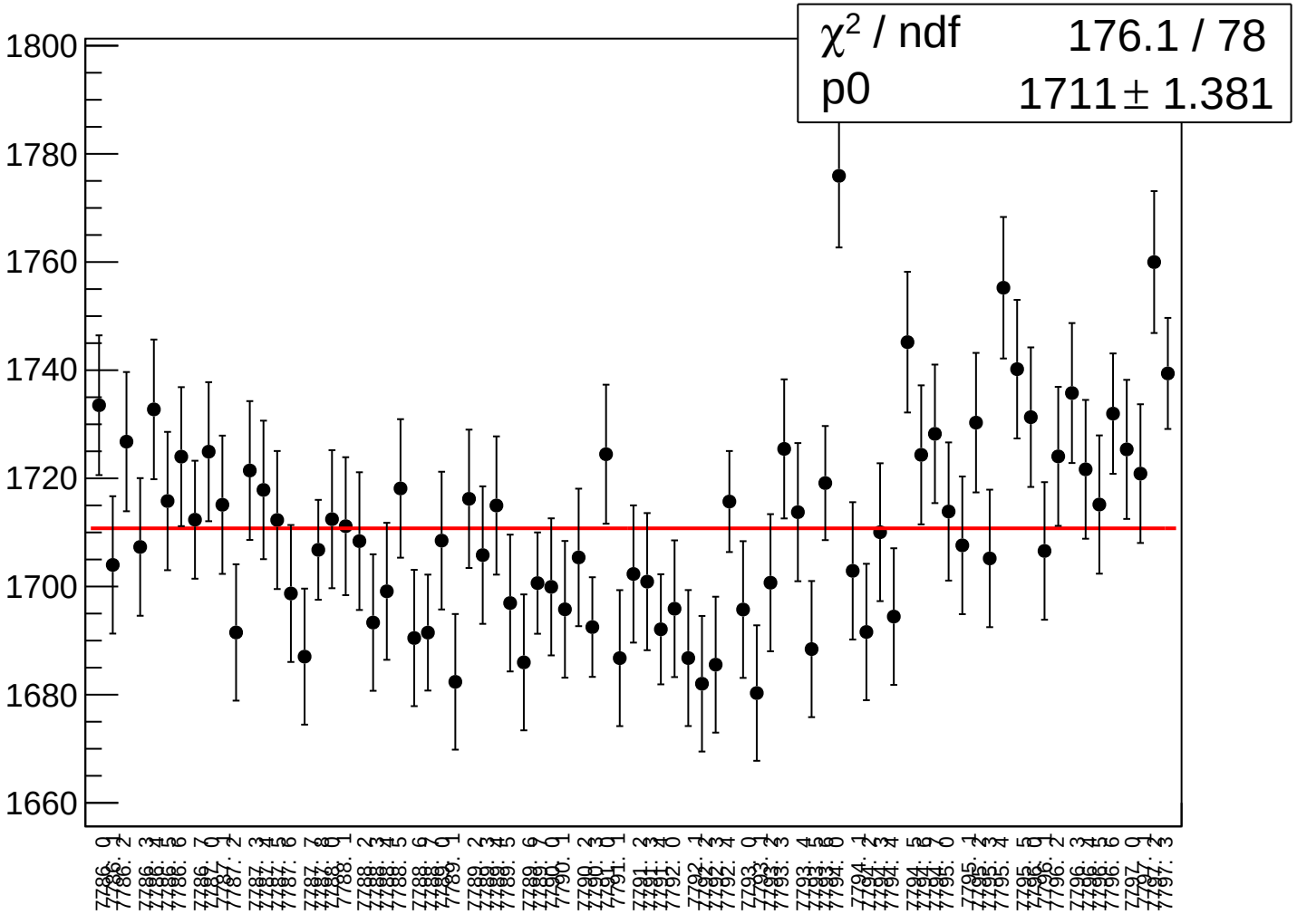

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.17 / 78
p0 −1073 ± 9905
pull
Entries 79
Mean −284.1
Std Dev 0

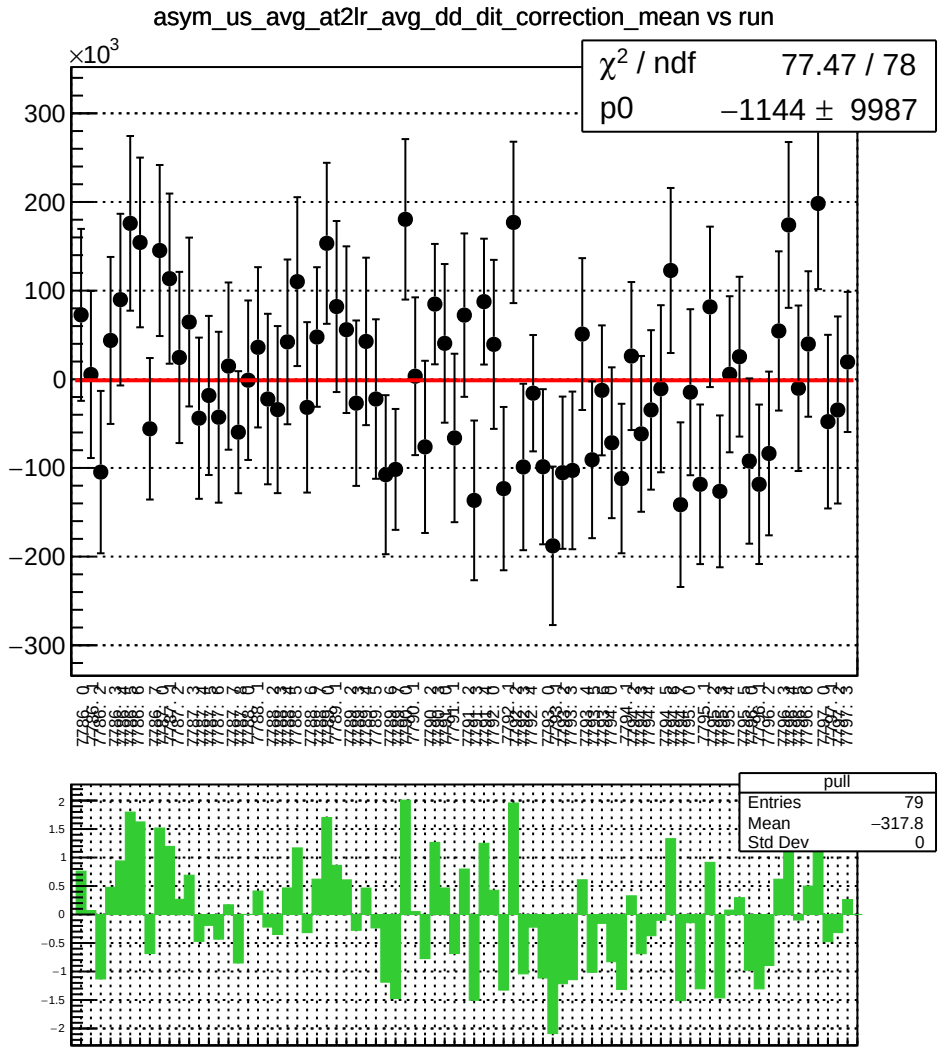

pull1D
Entries 79
Mean 0.01452
Std Dev 0.9947

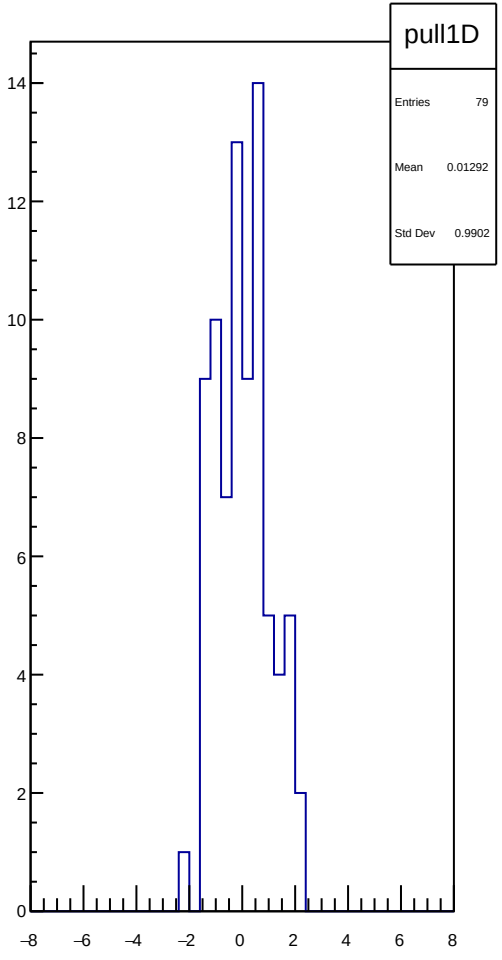

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2754 / 78
p0 8667 ± 7.004
10000
9500
9000
8500
8000
7500

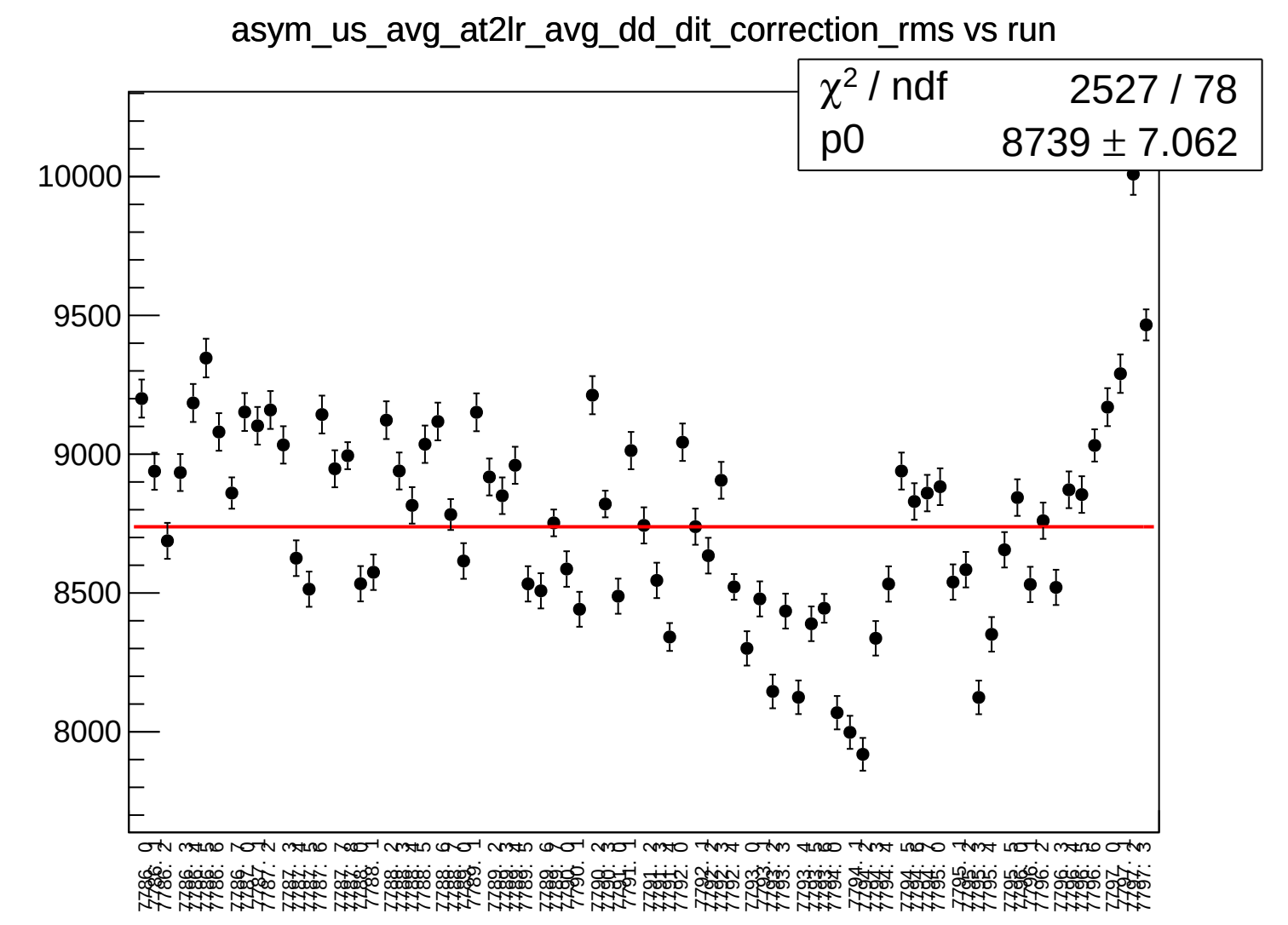

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 82.1 / 78
p0 1296 ± 1954
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean −313.9
Std Dev 0
2
1
0
−1
−2
−3

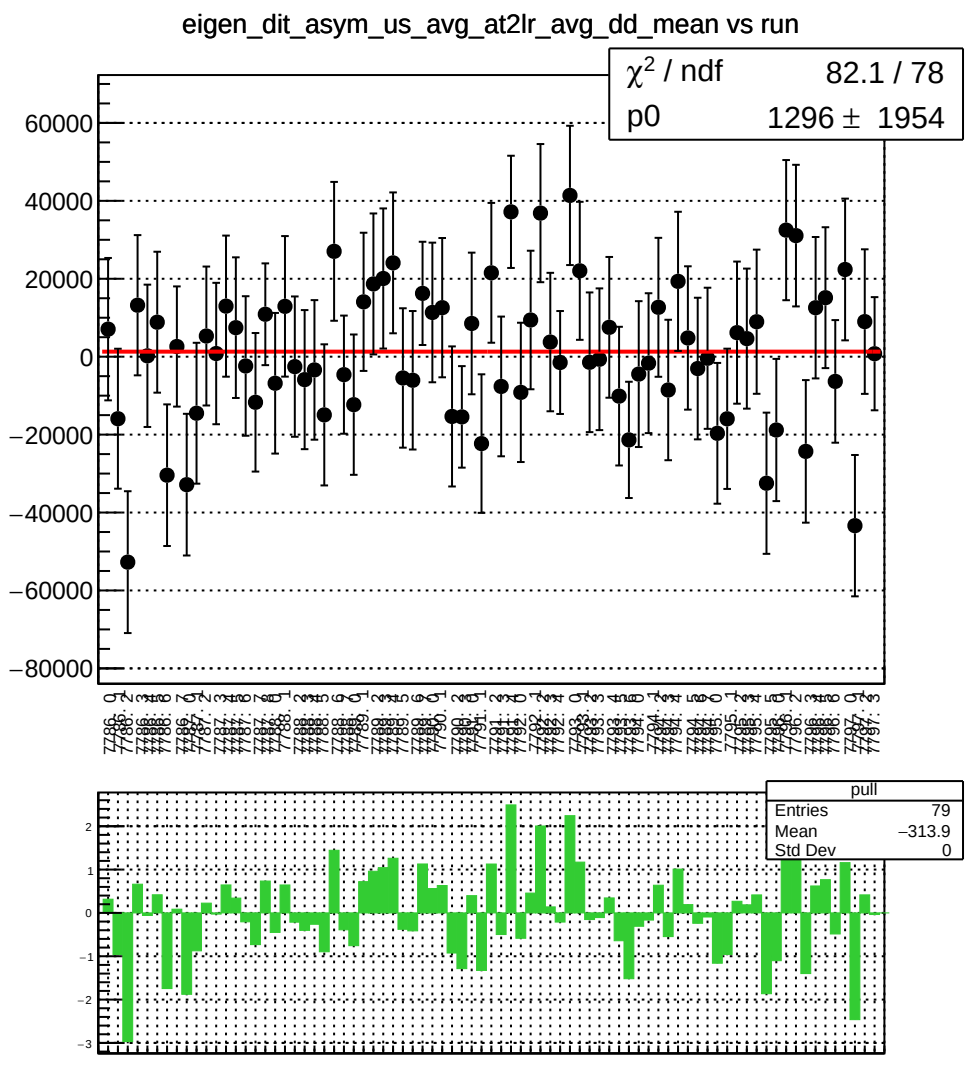

pull1D
Entries 79
Mean −0.005492
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

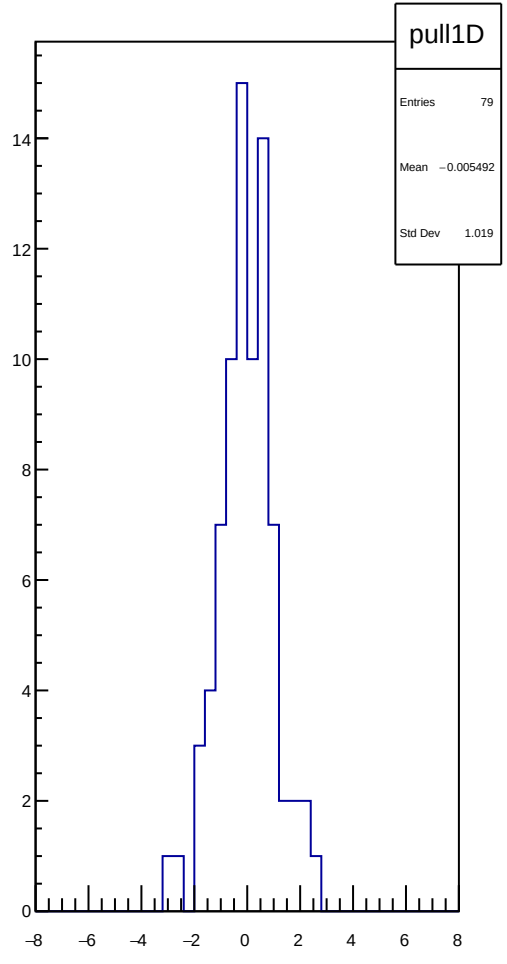

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 176.1 / 78
p0 1711 ± 1.381
1800
1780
1760
1740
1720
1700
1680
1660

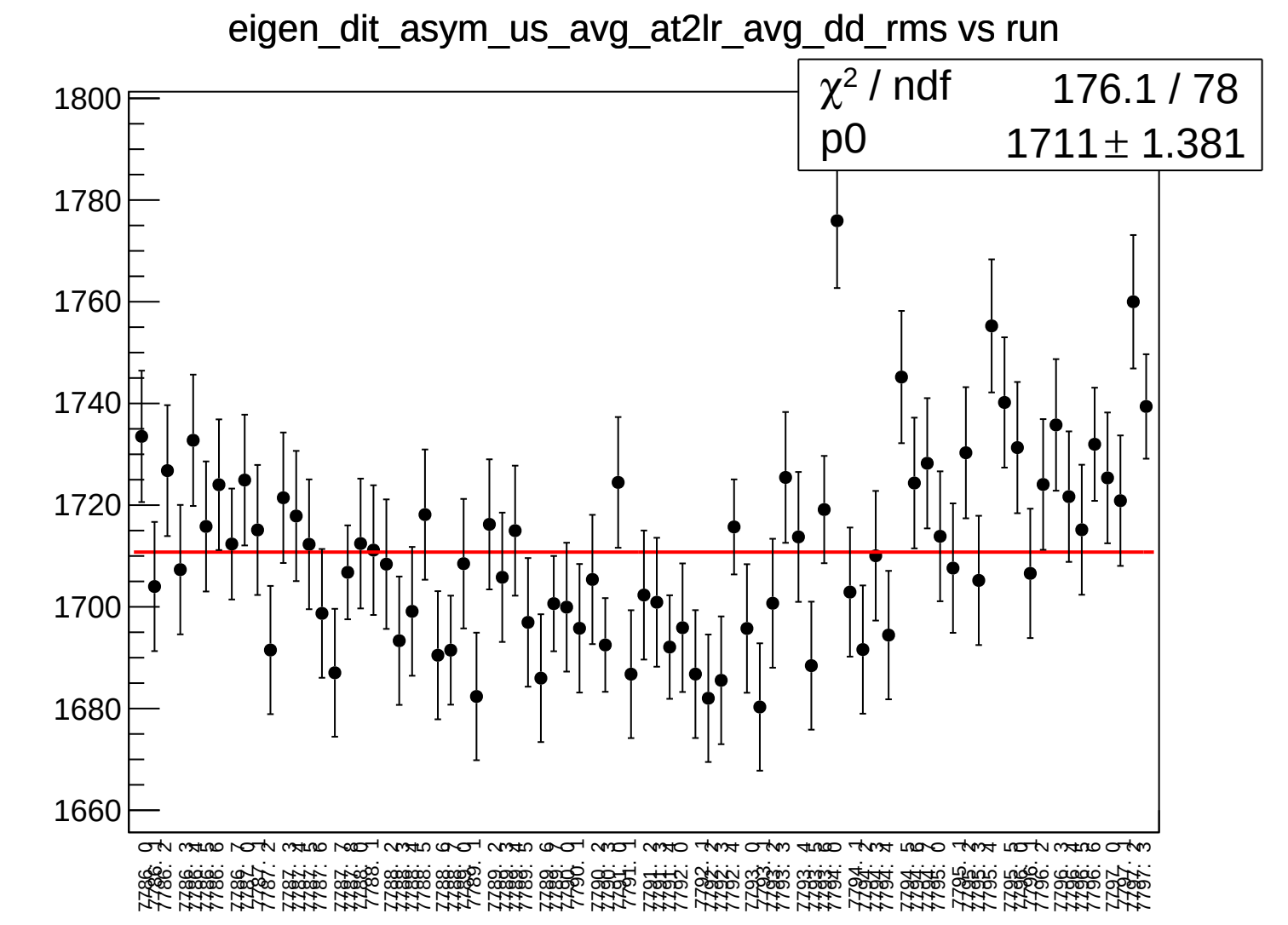

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.47 / 78
p0 −1144 ± 9987
pull
Entries 79
Mean −317.8
Std Dev 0

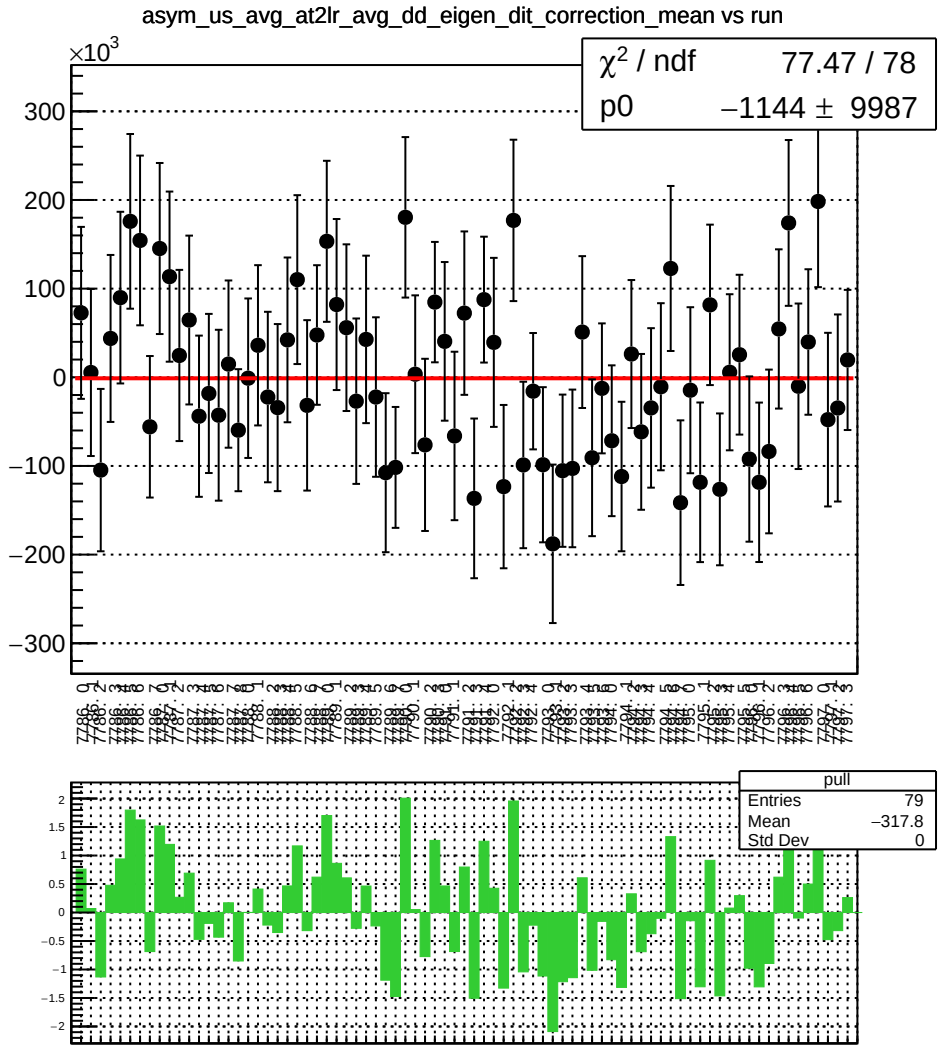

pull1D
Entries 79
Mean 0.01292
Std Dev 0.9902

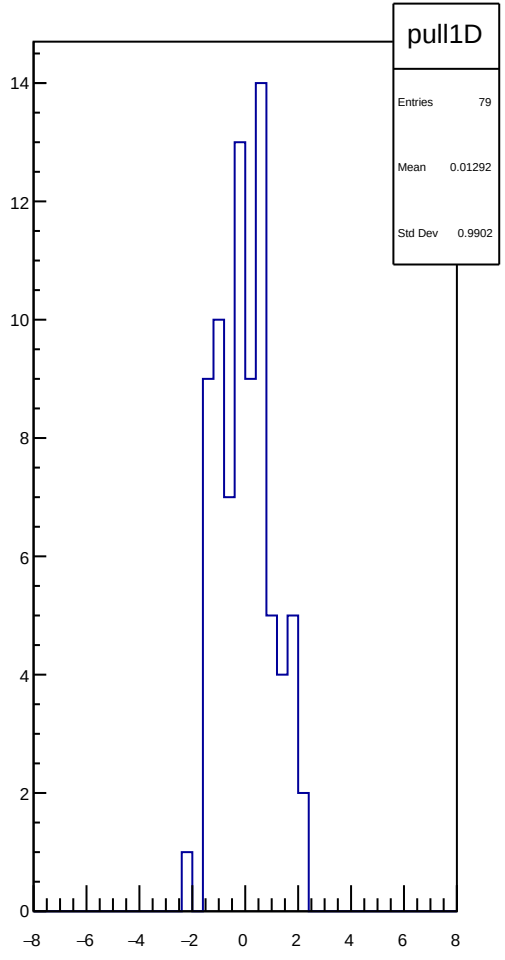

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2527 / 78
p0 8739 ± 7.062
10000
9500
9000
8500
8000

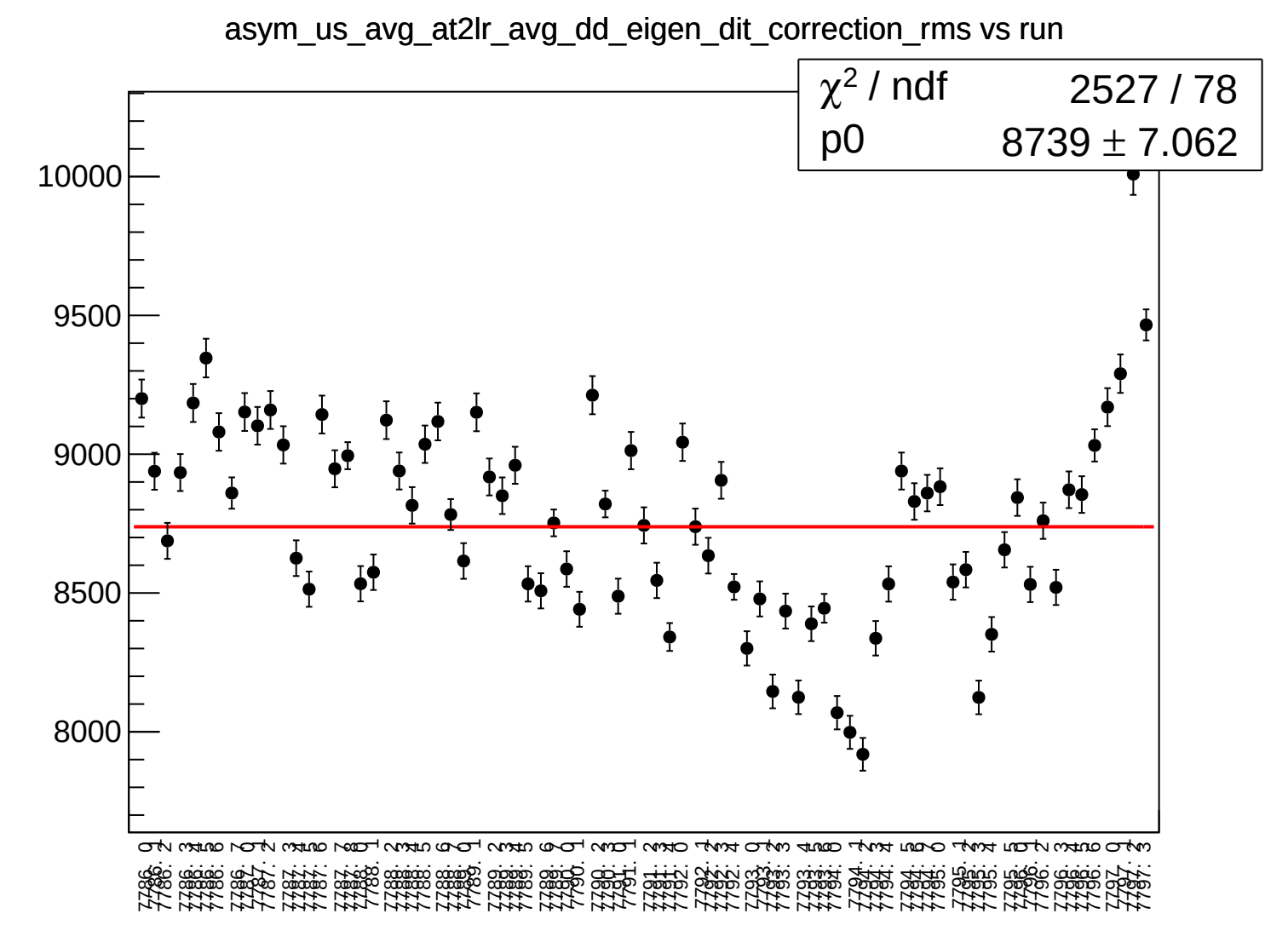

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 82.1 / 78
p0 1296 ± 1954
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean −313.9
Std Dev 0
2
1
0
−1
−2
−3

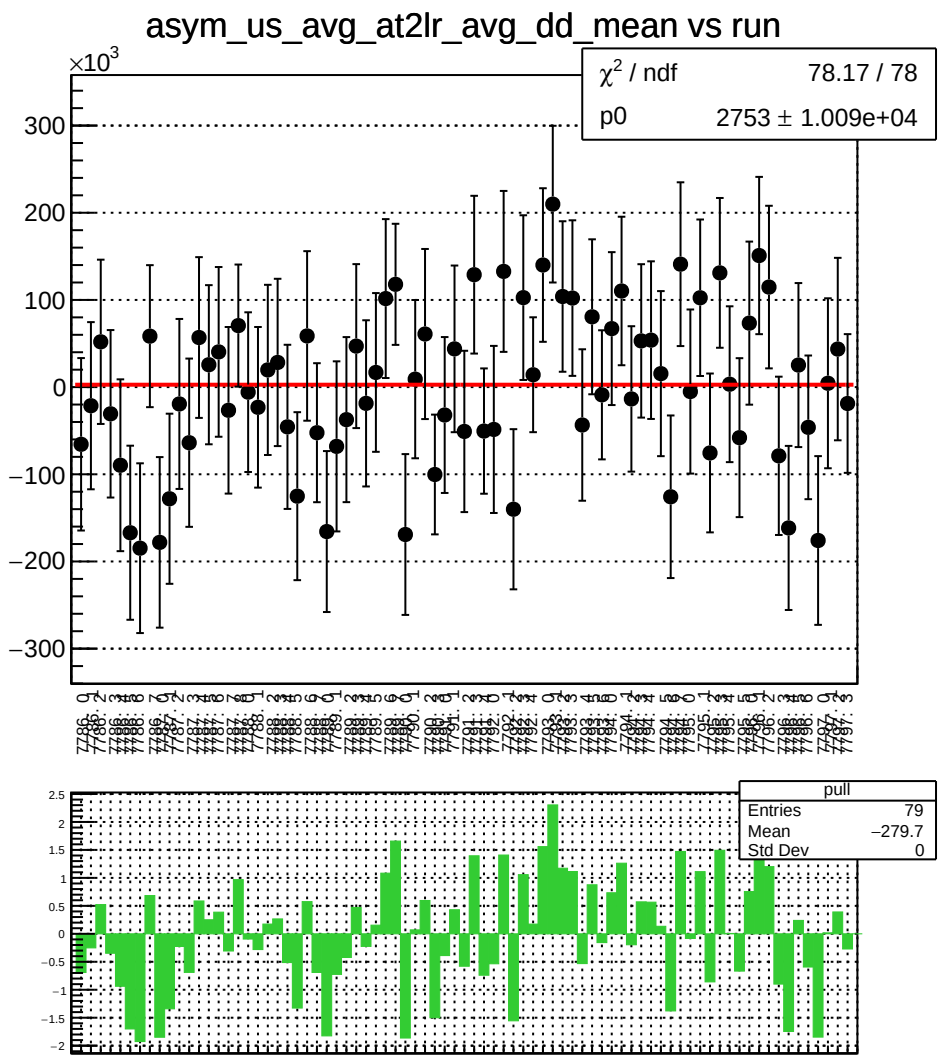

pull1D
Entries 79
Mean −0.005492
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

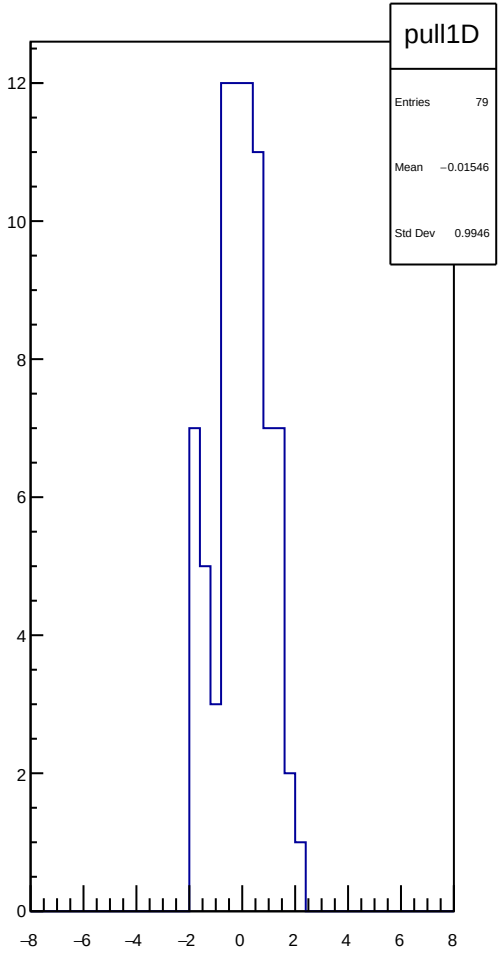

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 176.1 / 78
p0 1711 ± 1.381
1800
1780
1760
1740
1720
1700
1680
1660

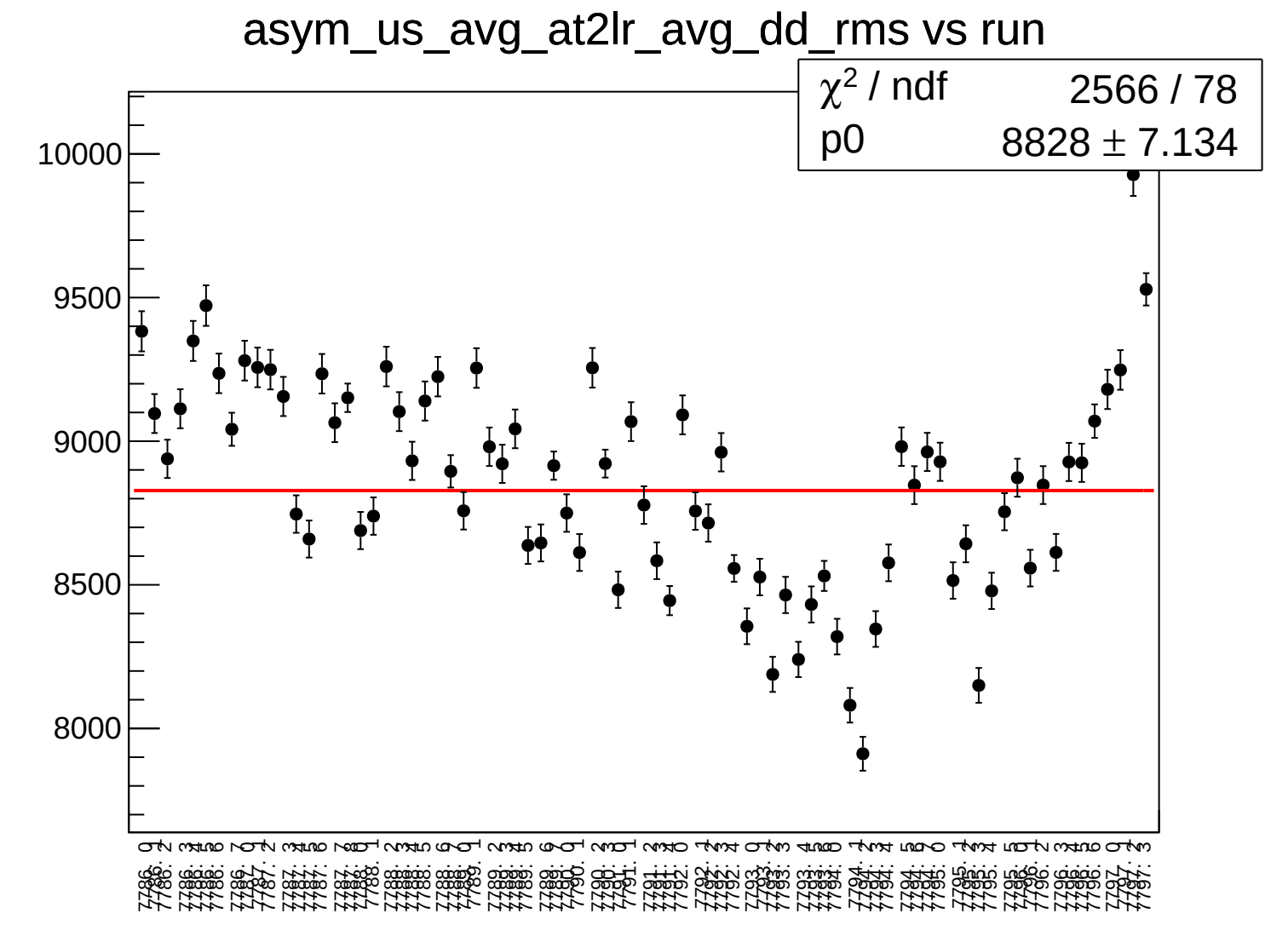

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.47 / 78
p0 −1144 ± 9987
300
200
100
0
−100
−200
−300
pull
Entries 79
Mean −317.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

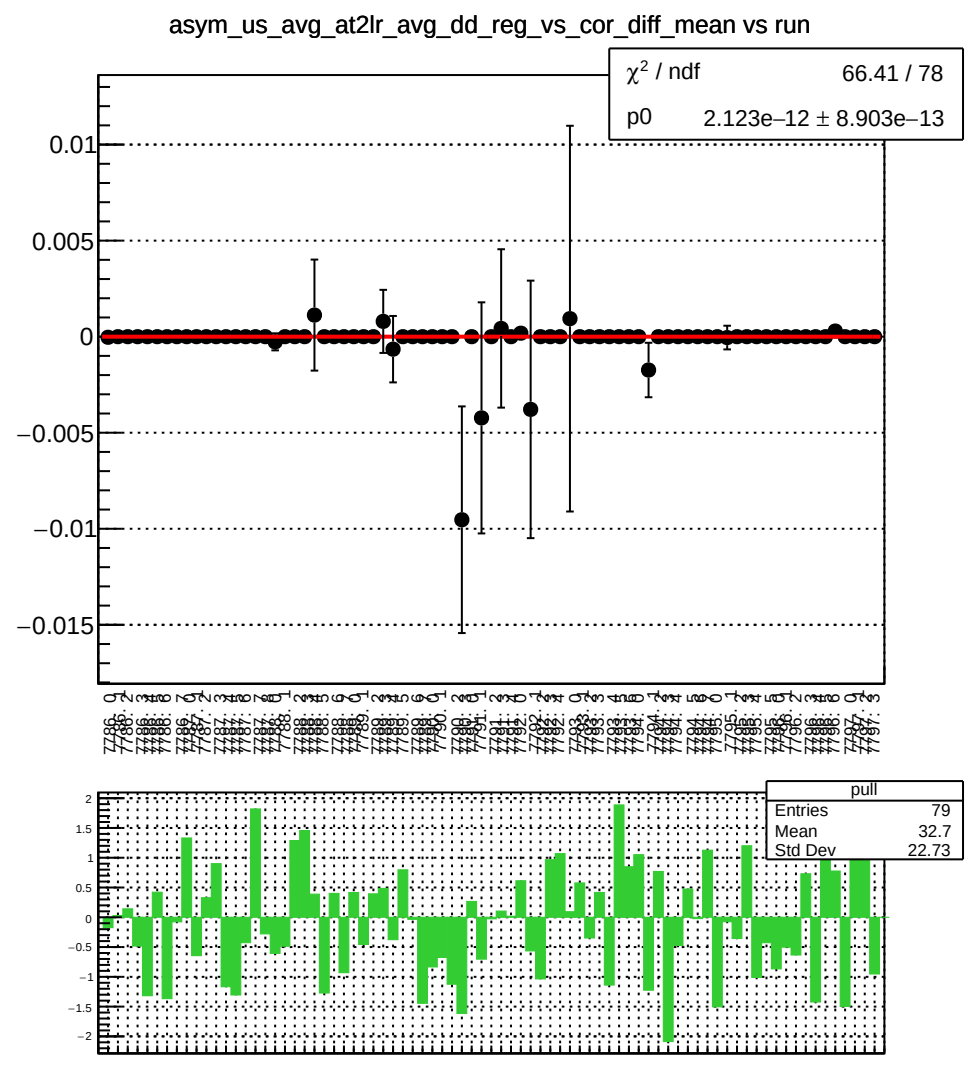

pull1D
Entries 79
Mean 0.01292
Std Dev 0.9902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

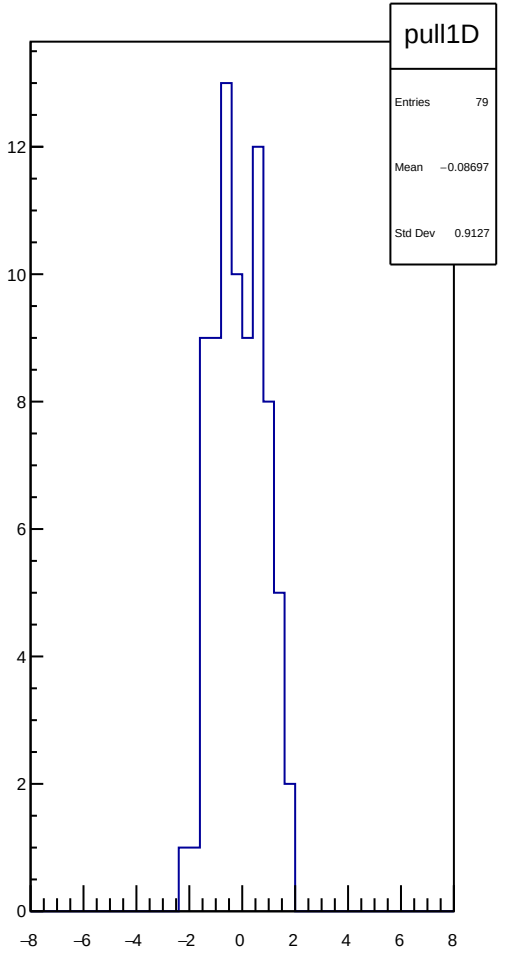

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2527 / 78
p0 8739 ± 7.062
10000
9500
9000
8500
8000

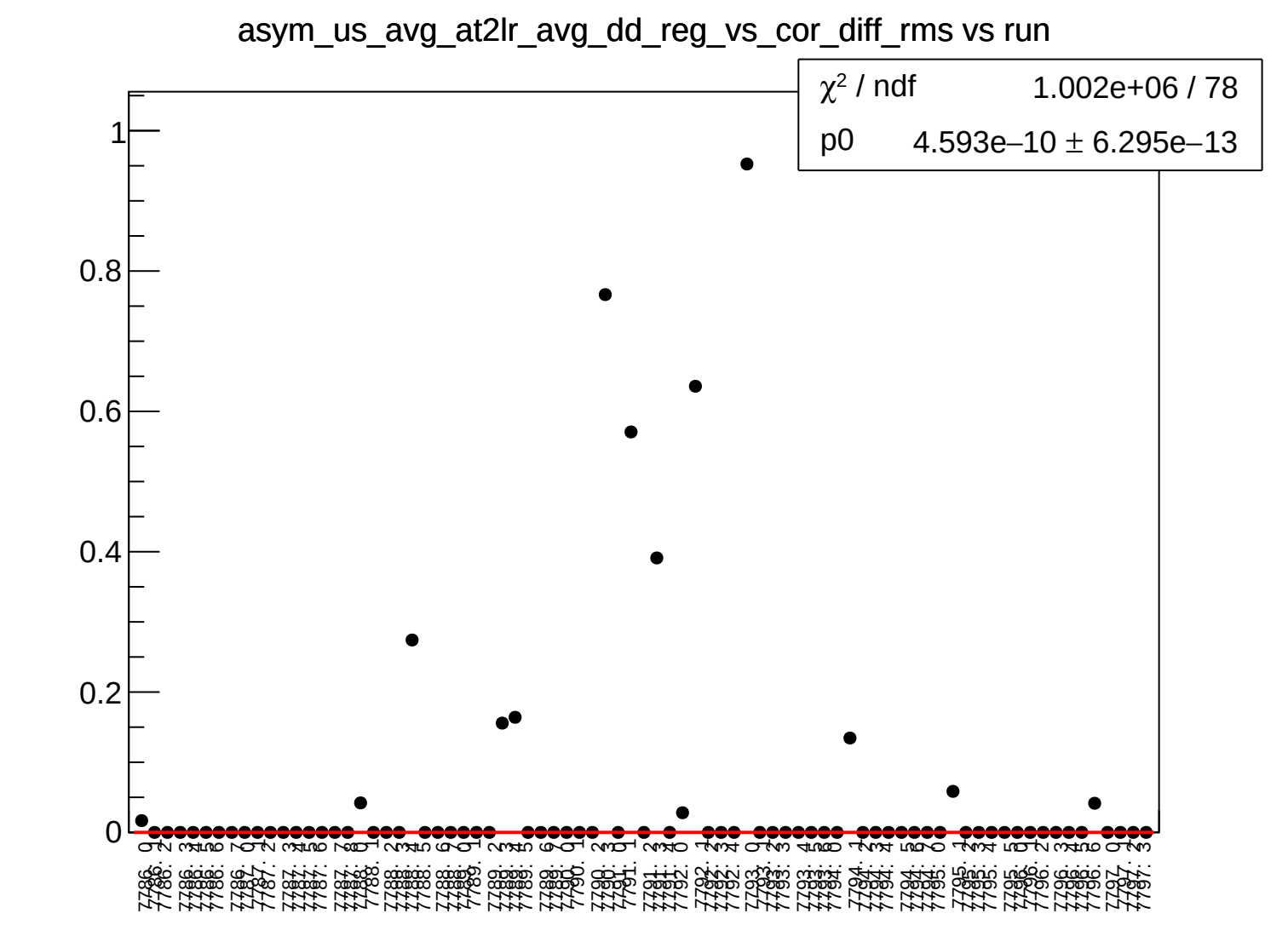

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 78.17 / 78
p0 2753 ± 1.009e+04
pull
Entries 79
Mean −279.7
Std Dev 0

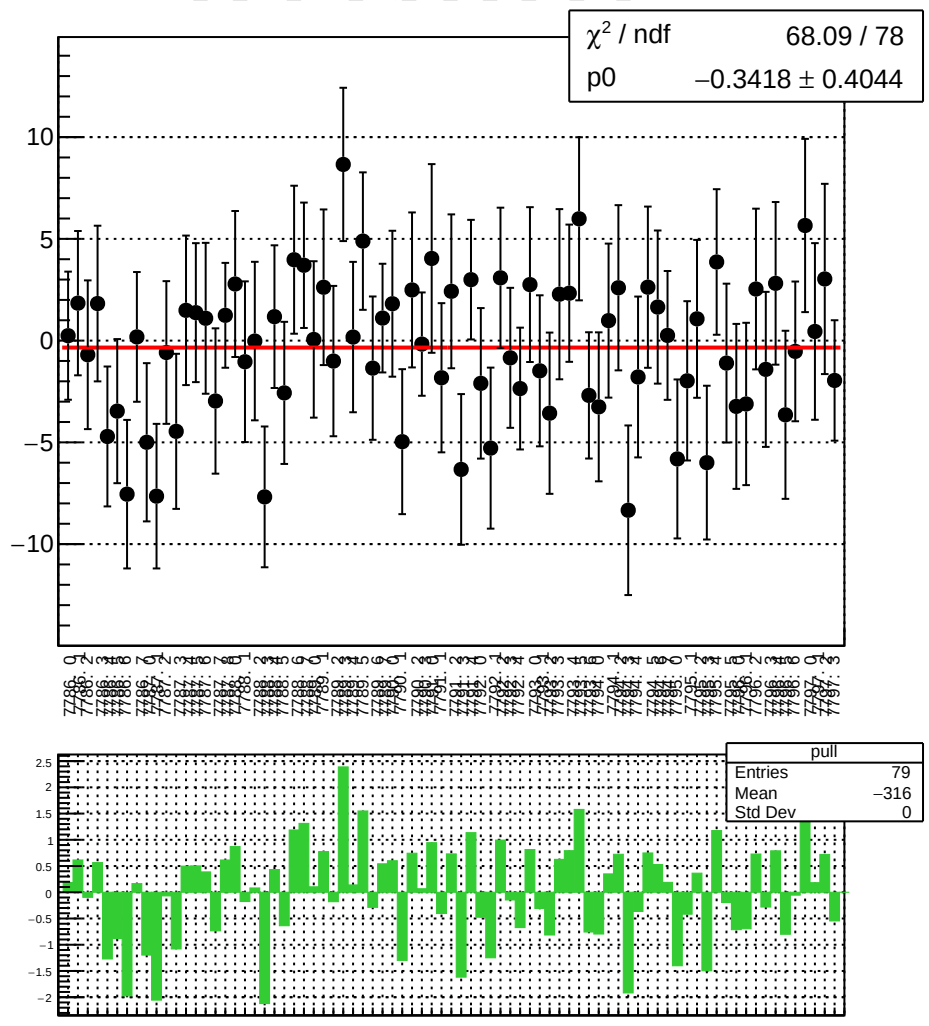

pull1D
Entries 79
Mean −0.01546
Std Dev 0.9946

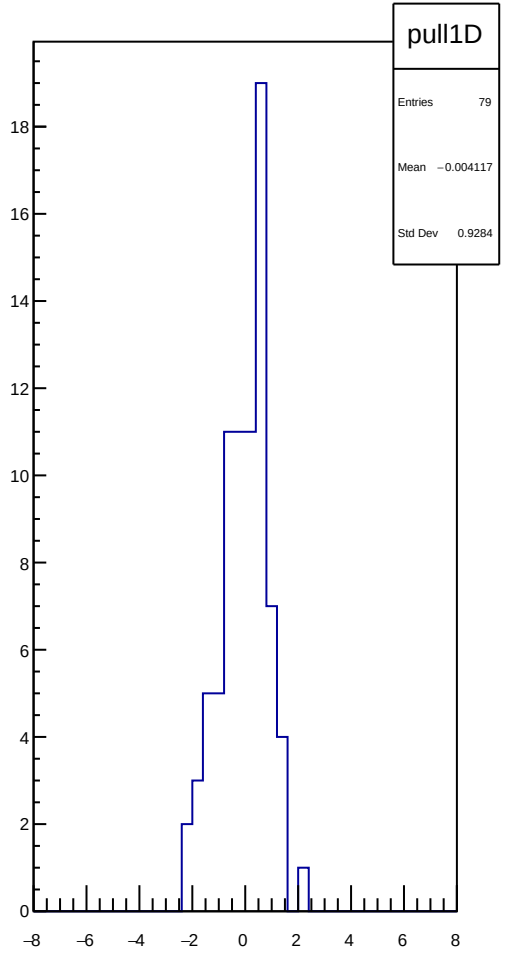

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2566 / 78
p0 8828 ± 7.134
10000
9500
9000
8500
8000

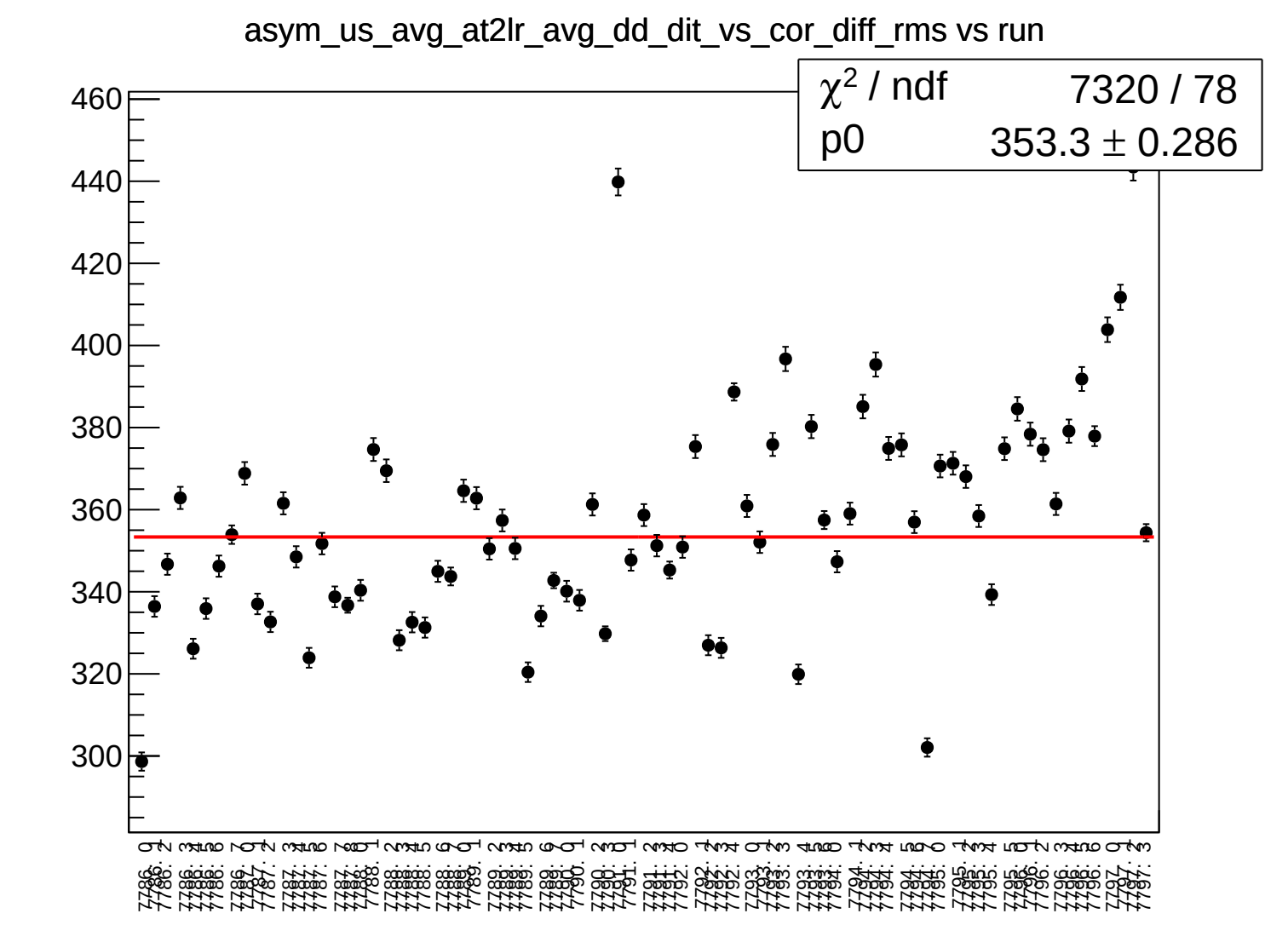

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.41 / 78
p0 2.123e−12 ± 8.903e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 79
Mean 32.7
Std Dev 22.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

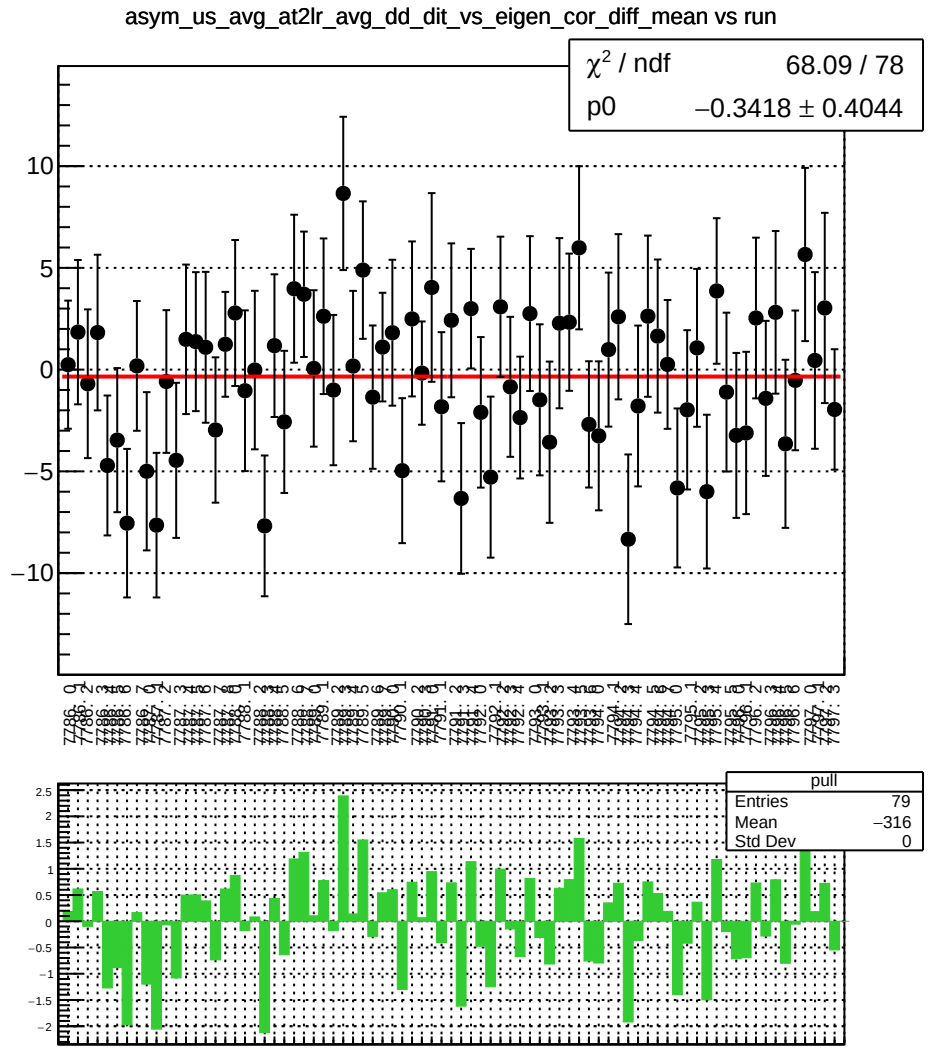

pull1D
Entries 79
Mean −0.08697
Std Dev 0.9127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

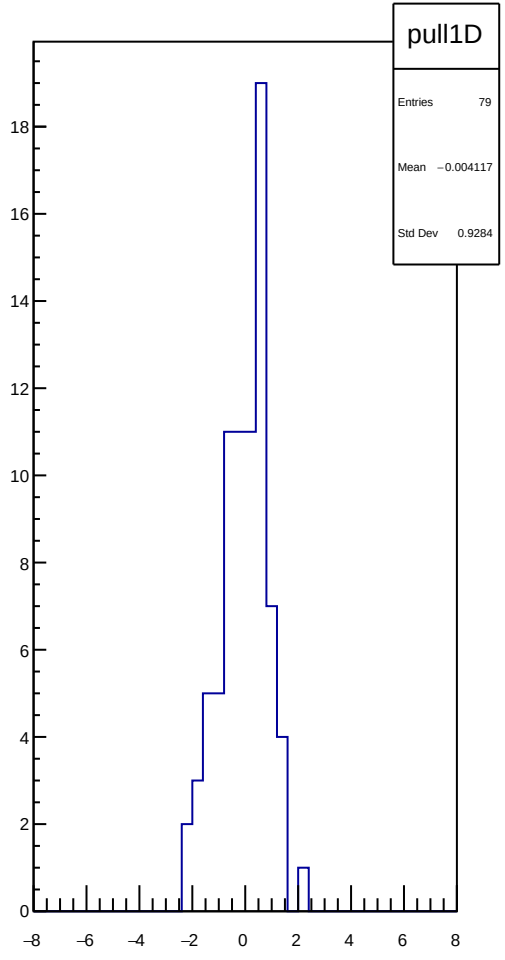

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.002e+06 / 78
p0 4.593e−10 ± 6.295e−13
1
0.8
0.6
0.4
0.2
0

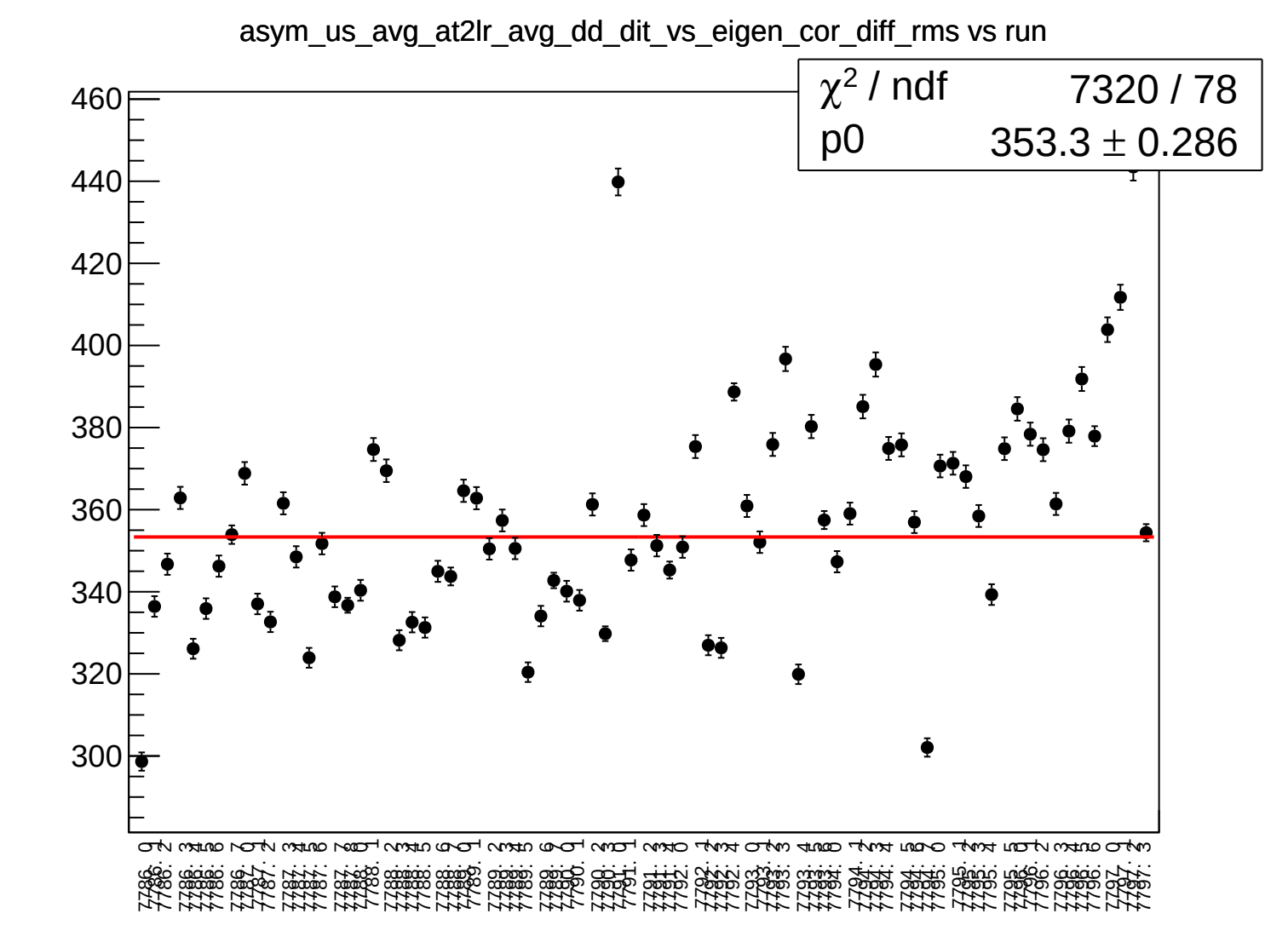

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.09 / 78
p0 −0.3418 ± 0.4044
pull
Entries 79
Mean −316
Std Dev 0

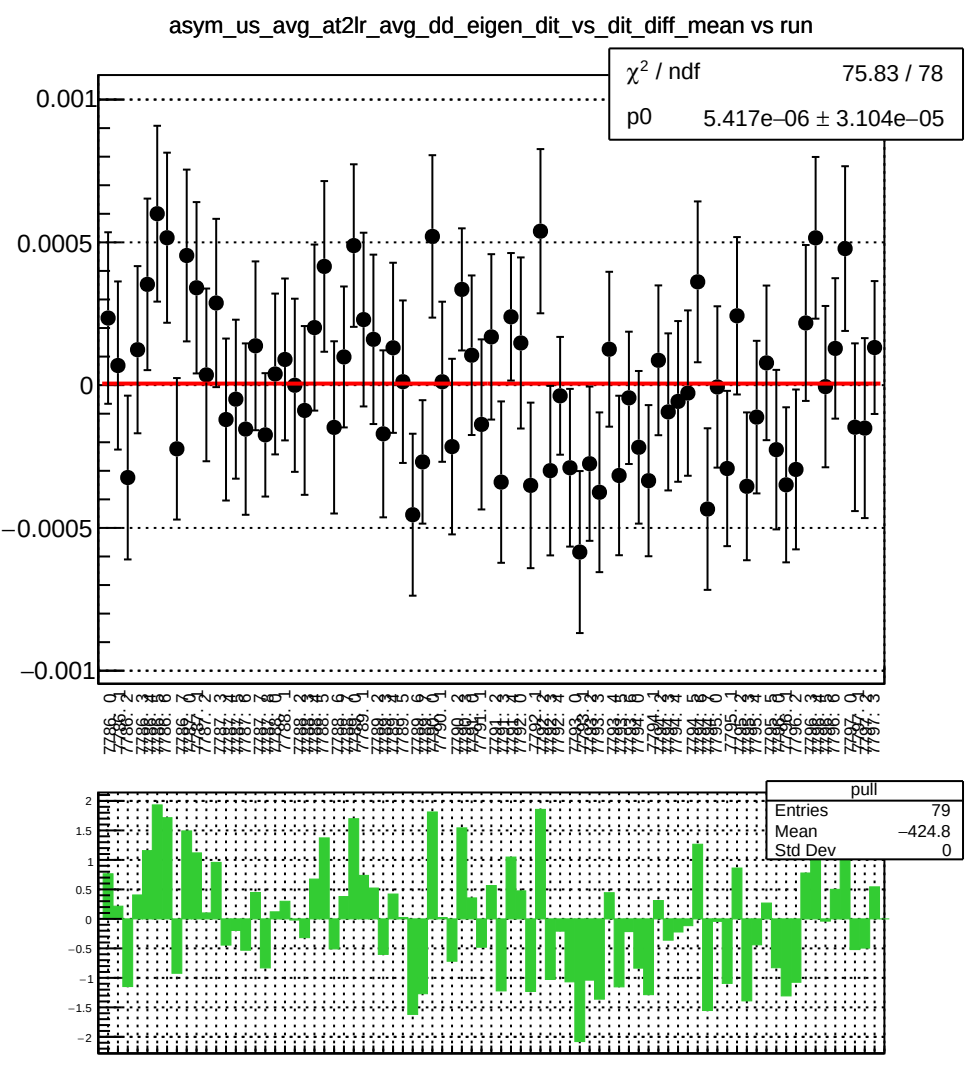

pull1D
Entries 79
Mean −0.004117
Std Dev 0.9284

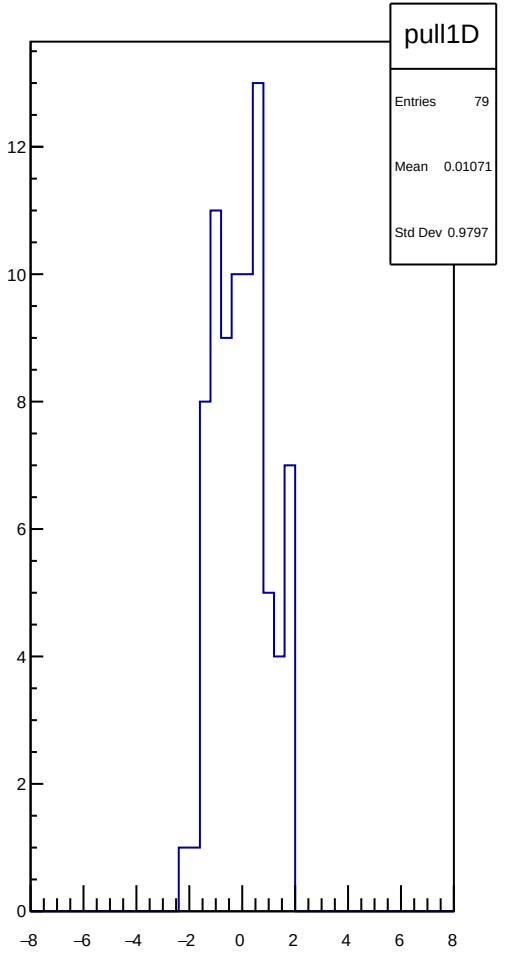

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7320 / 78
p0 353.3 ± 0.286
460
440
420
400
380
360
340
320
300

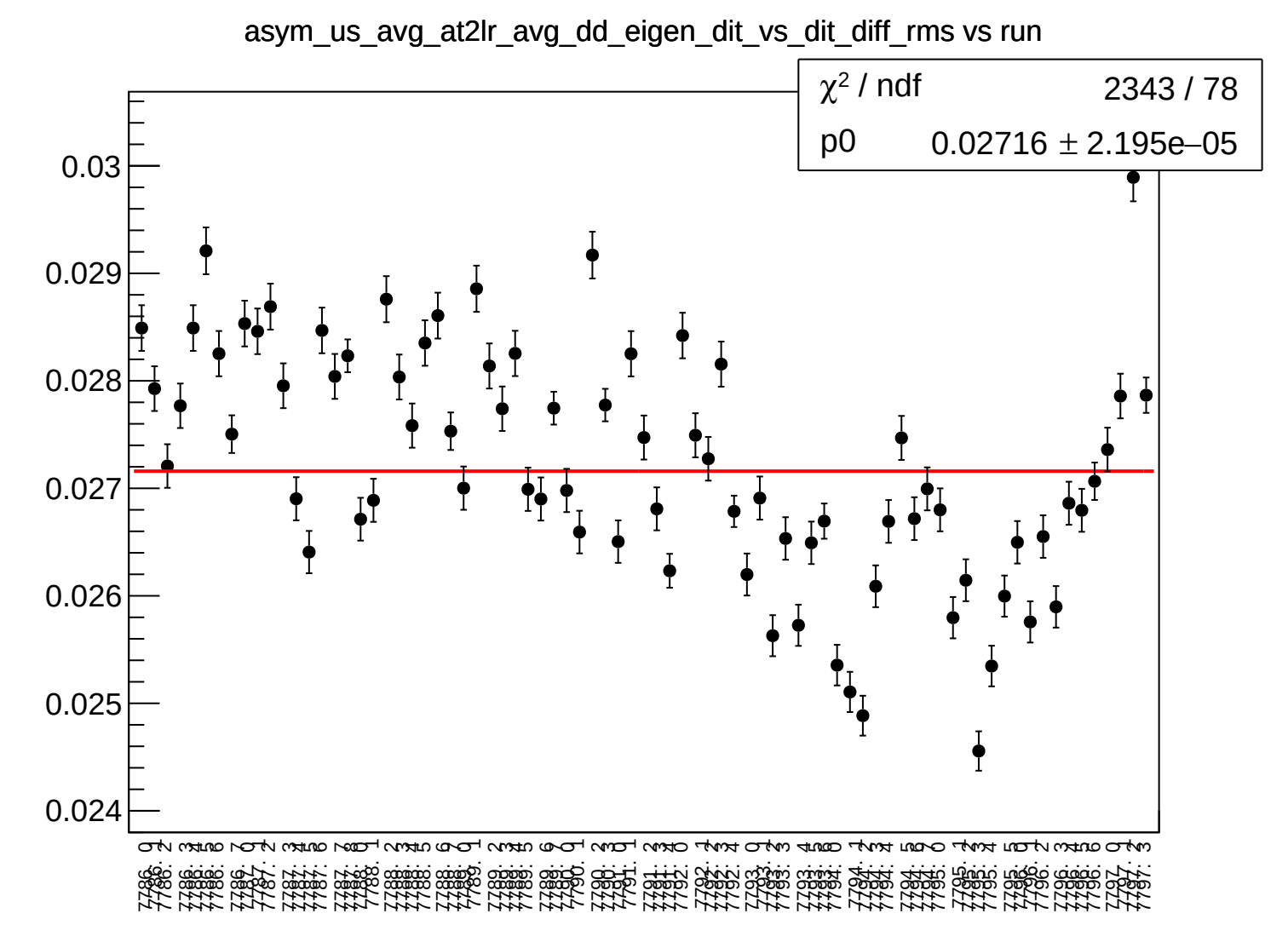

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.09 / 78
p0 −0.3418 ± 0.4044
pull
Entries 79
Mean −316
Std Dev 0

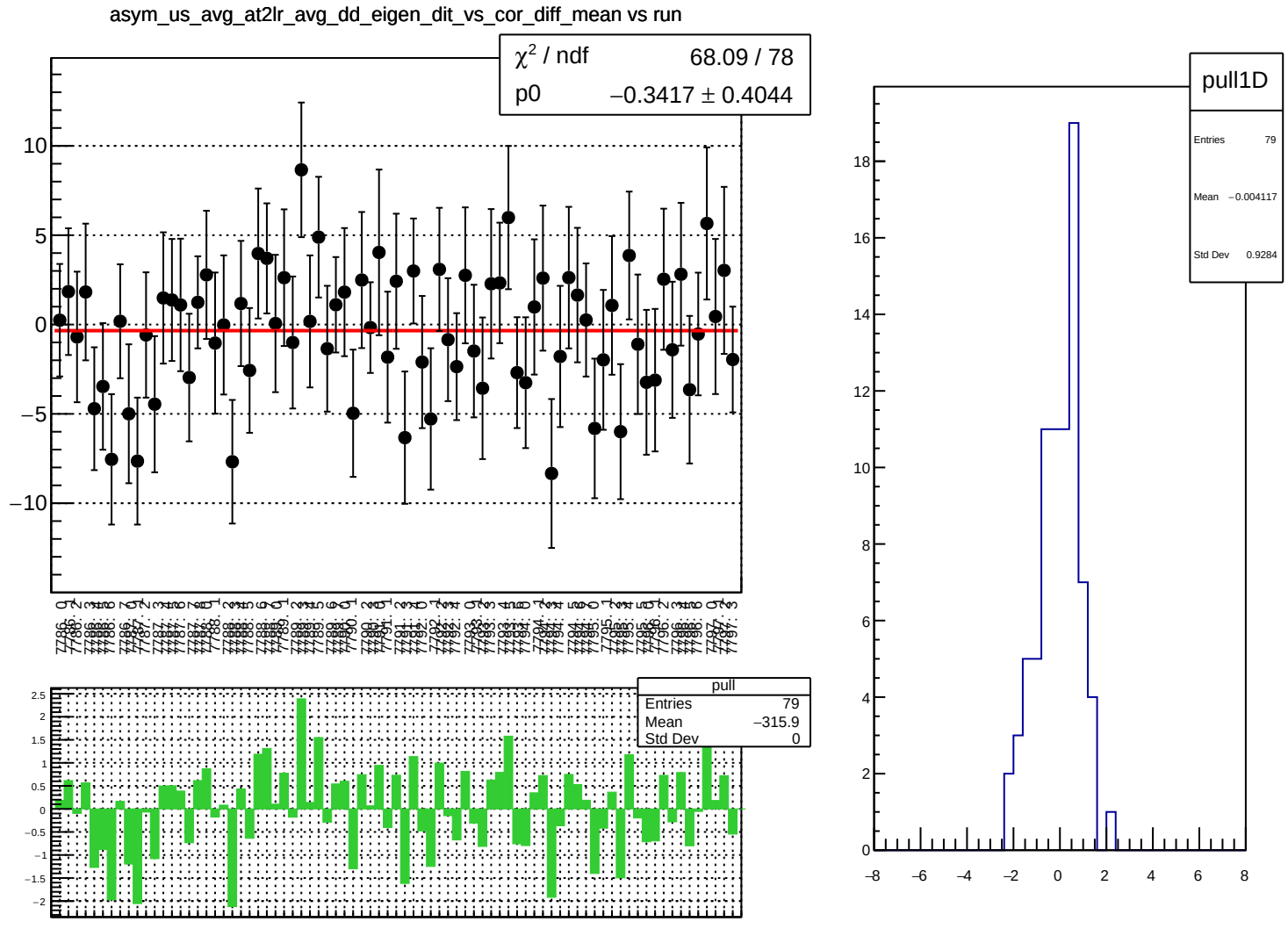

pull1D
Entries 79
Mean −0.004117
Std Dev 0.9284

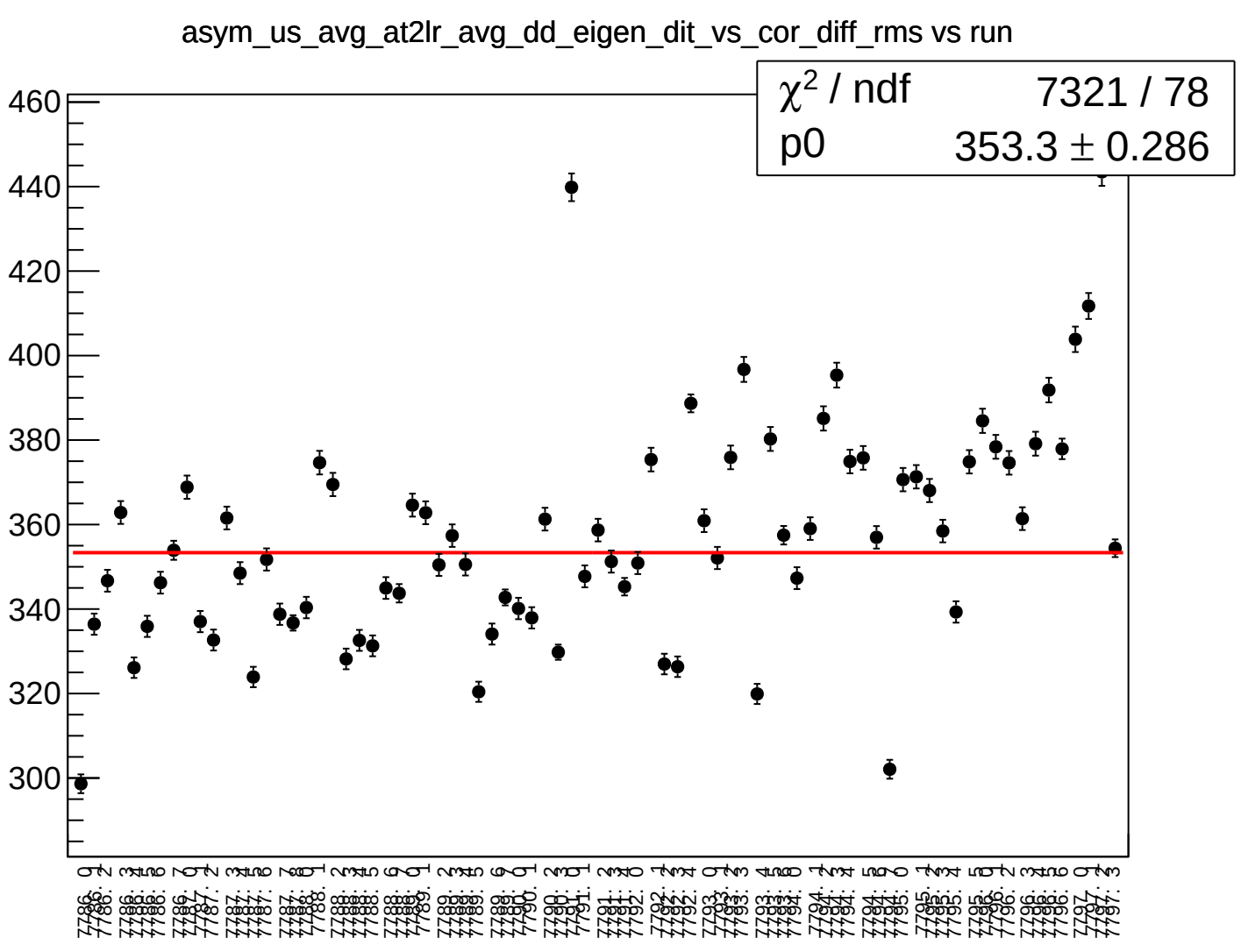

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7320 / 78
p0 353.3 ± 0.286
460
440
420
400
380
360
340
320
300

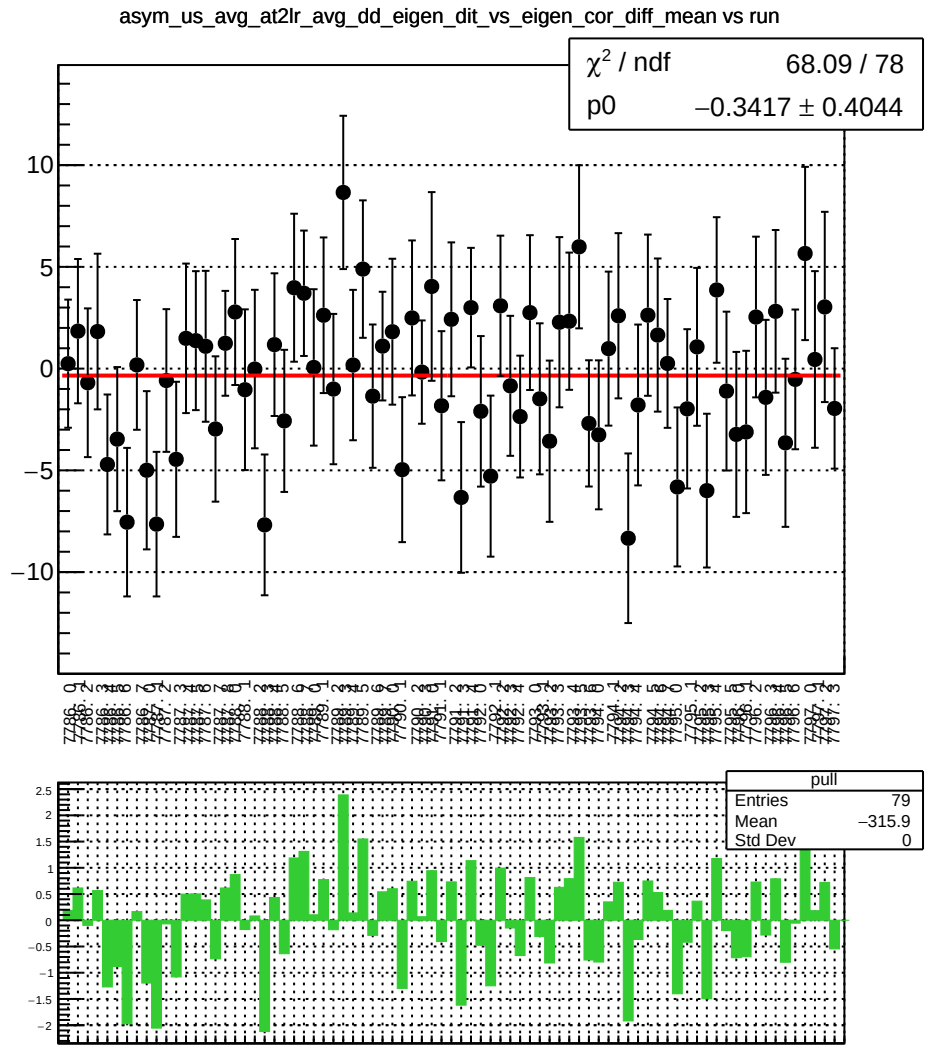

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.83 / 78
p0 5.417e−06 ± 3.104e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 79
Mean −424.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

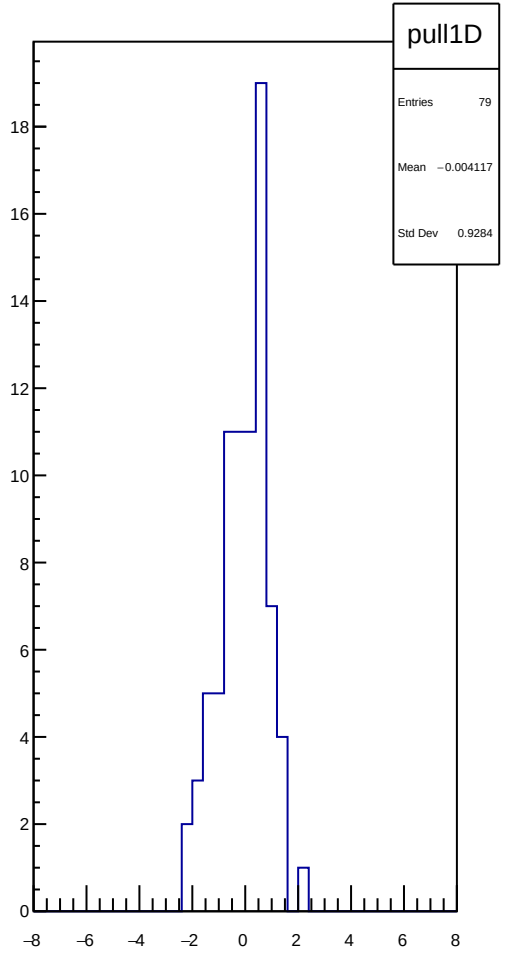

pull1D
Entries 79
Mean 0.01071
Std Dev 0.9797
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

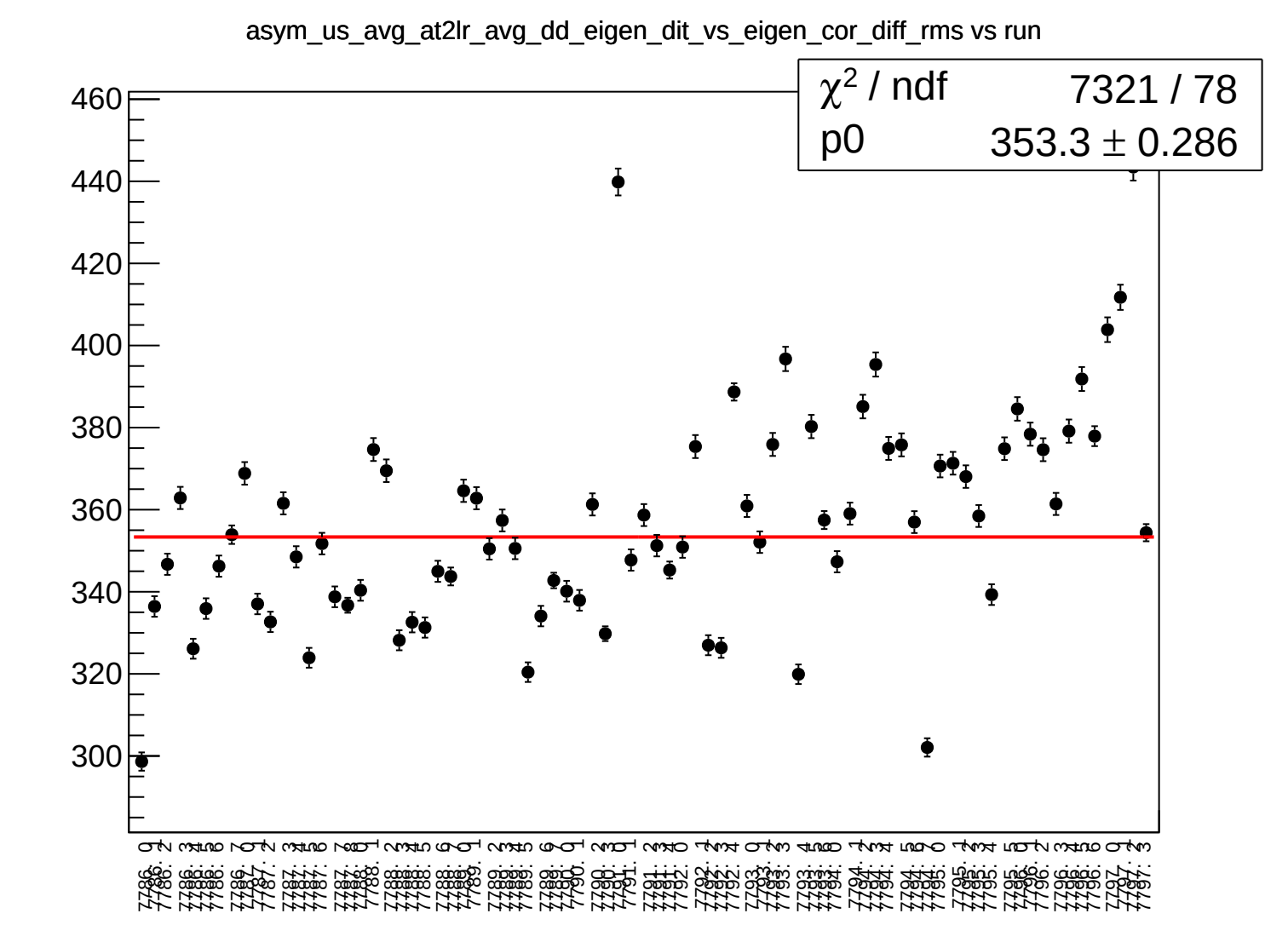

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2343 / 78
p0 0.02716 ± 2.195e−05
0.03
0.029
0.028
0.027
0.026
0.025
0.024

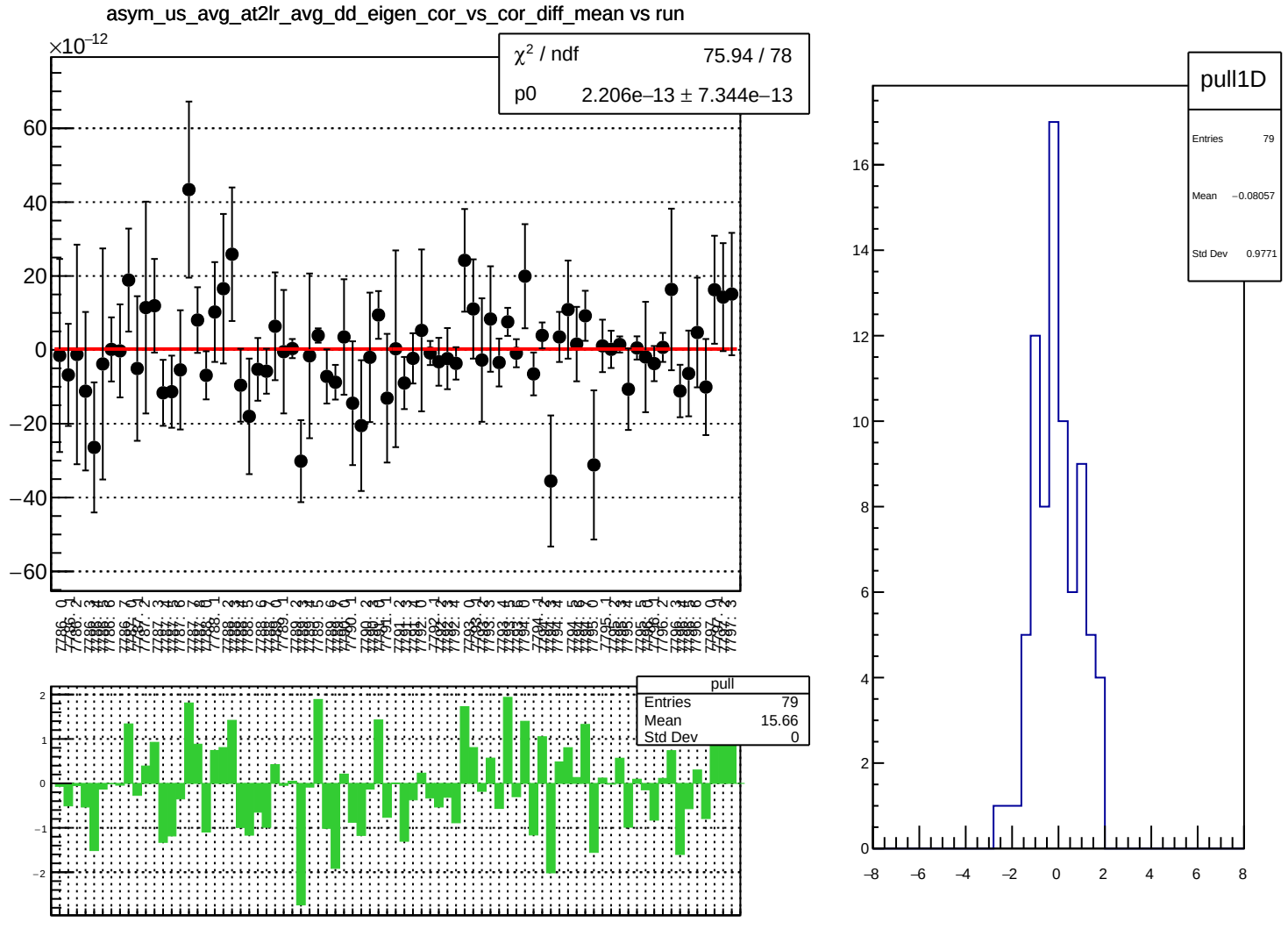

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.09 / 78
p0 −0.3417 ± 0.4044
pull
Entries 79
Mean −315.9
Std Dev 0
pull1D
Entries 79
Mean −0.004117
Std Dev 0.9284

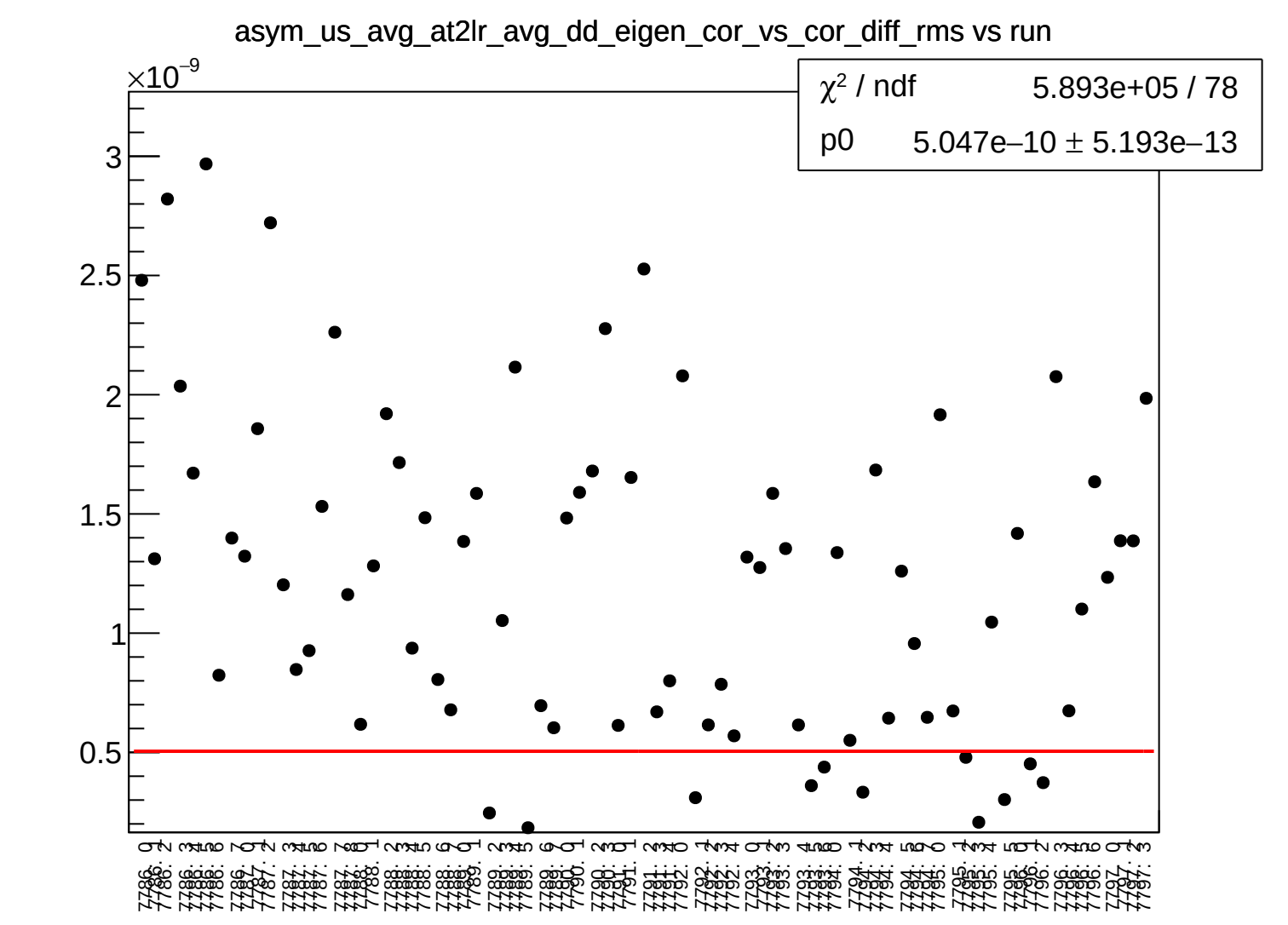

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7321 / 78
p0 353.3 ± 0.286
460
440
420
400
380
360
340
320
300

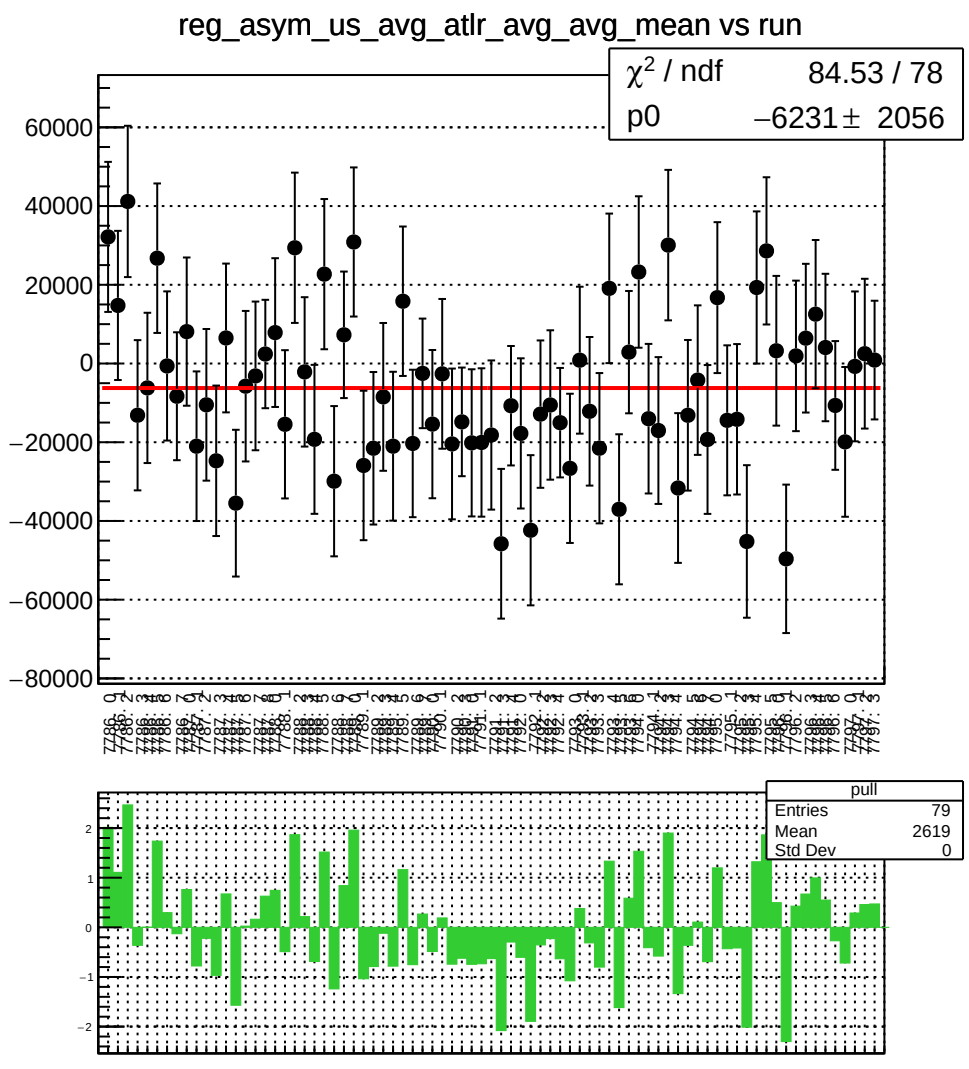

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.09 / 78
p0 −0.3417 ± 0.4044
pull
Entries 79
Mean −315.9
Std Dev 0

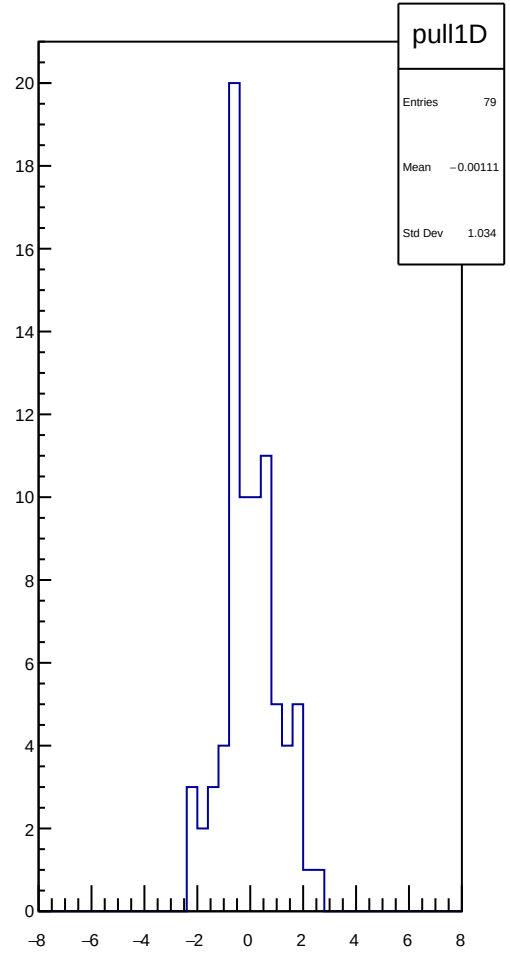

pull1D
Entries 79
Mean −0.004117
Std Dev 0.9284

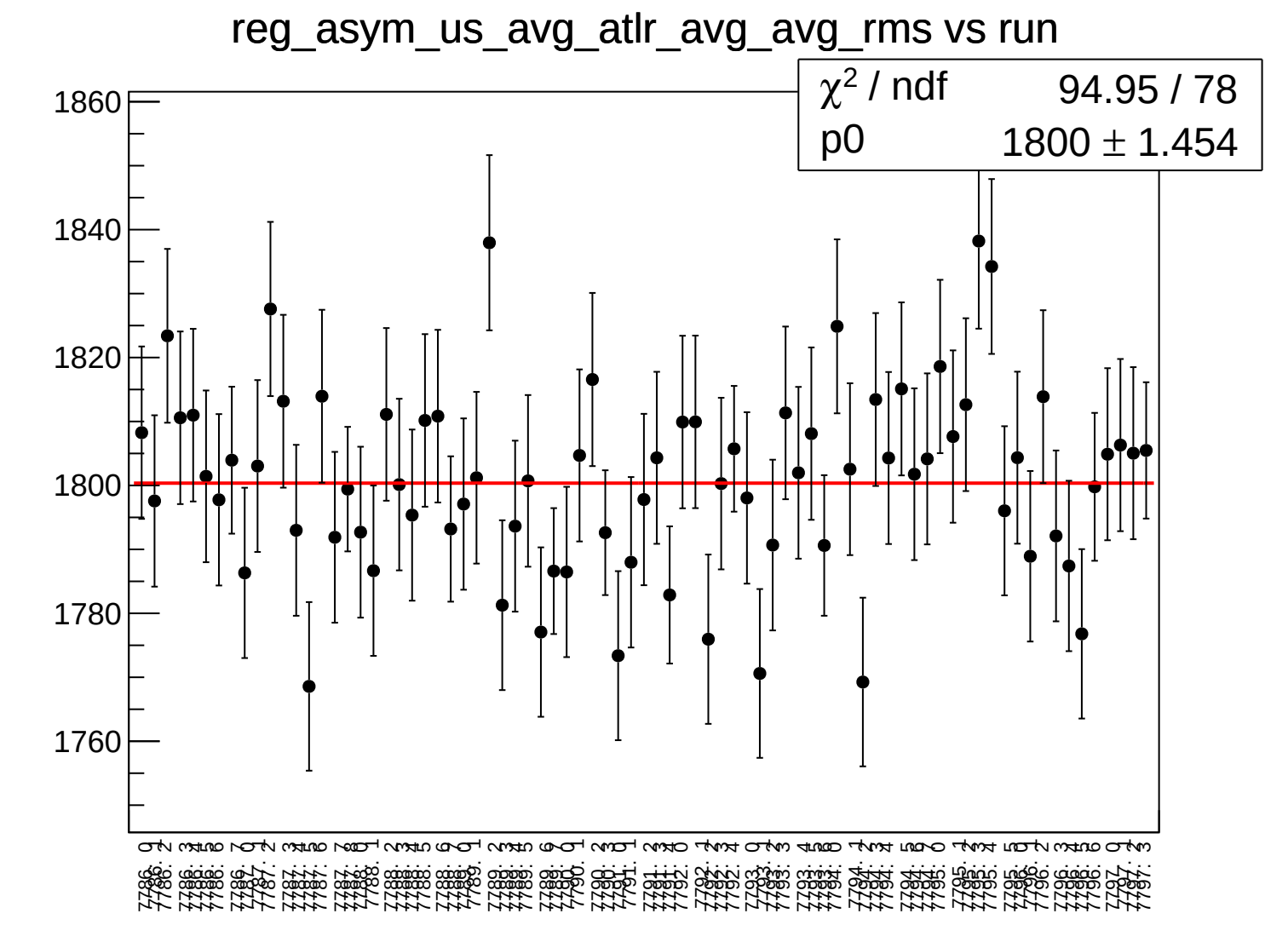

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7321 / 78
p0 353.3 ± 0.286
460
440
420
400
380
360
340
320
300

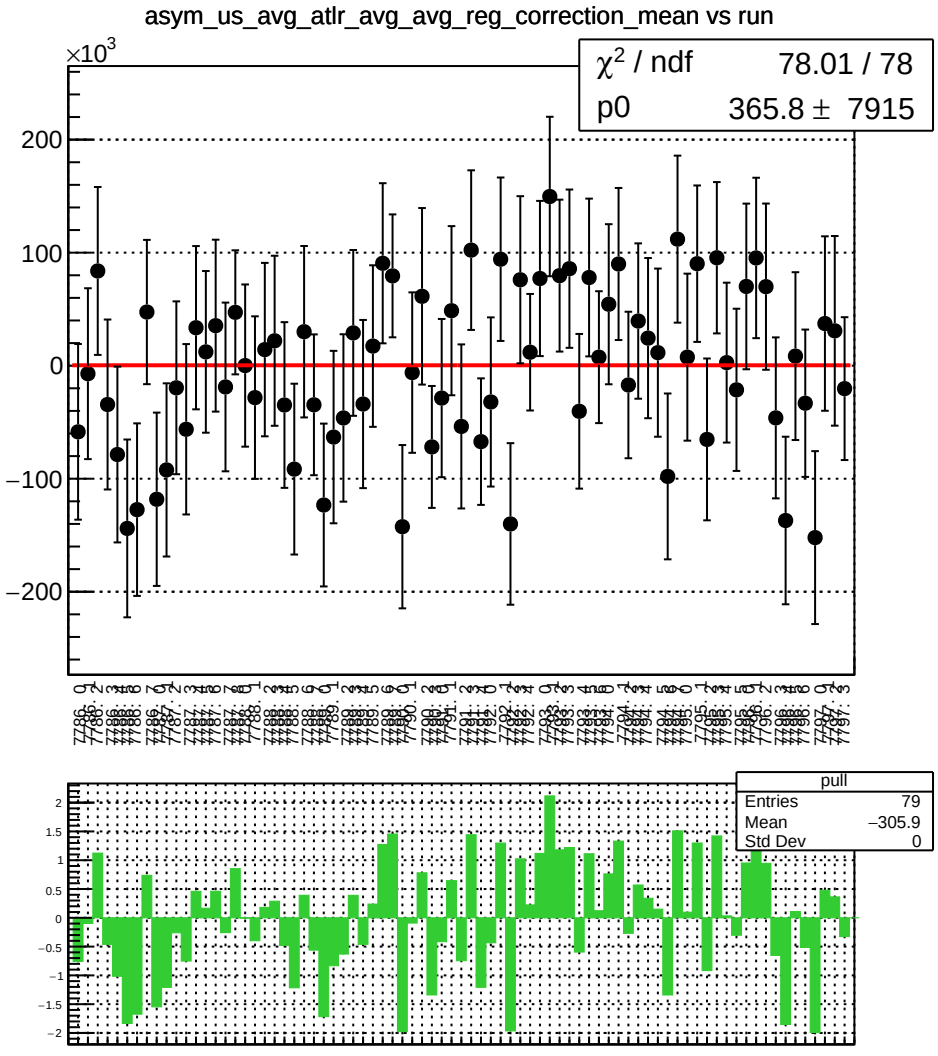

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.94 / 78
p0 2.206e−13 ± 7.344e−13
60
40
20
0
−20
−40
−60
pull
Entries 79
Mean 15.66
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 79
Mean −0.08057
Std Dev 0.9771
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

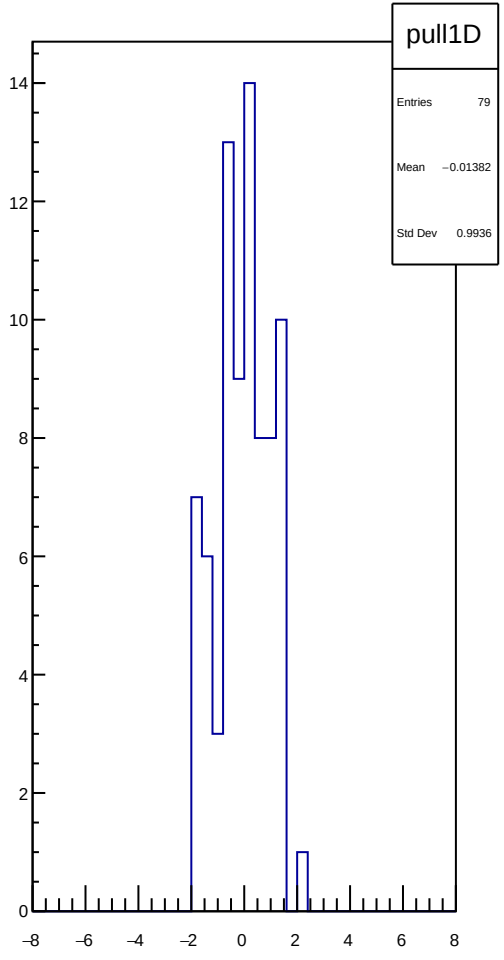

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.893e+05 / 78
p0 5.047e−10 ± 5.193e−13
3
2.5
2
1.5
1
0.5

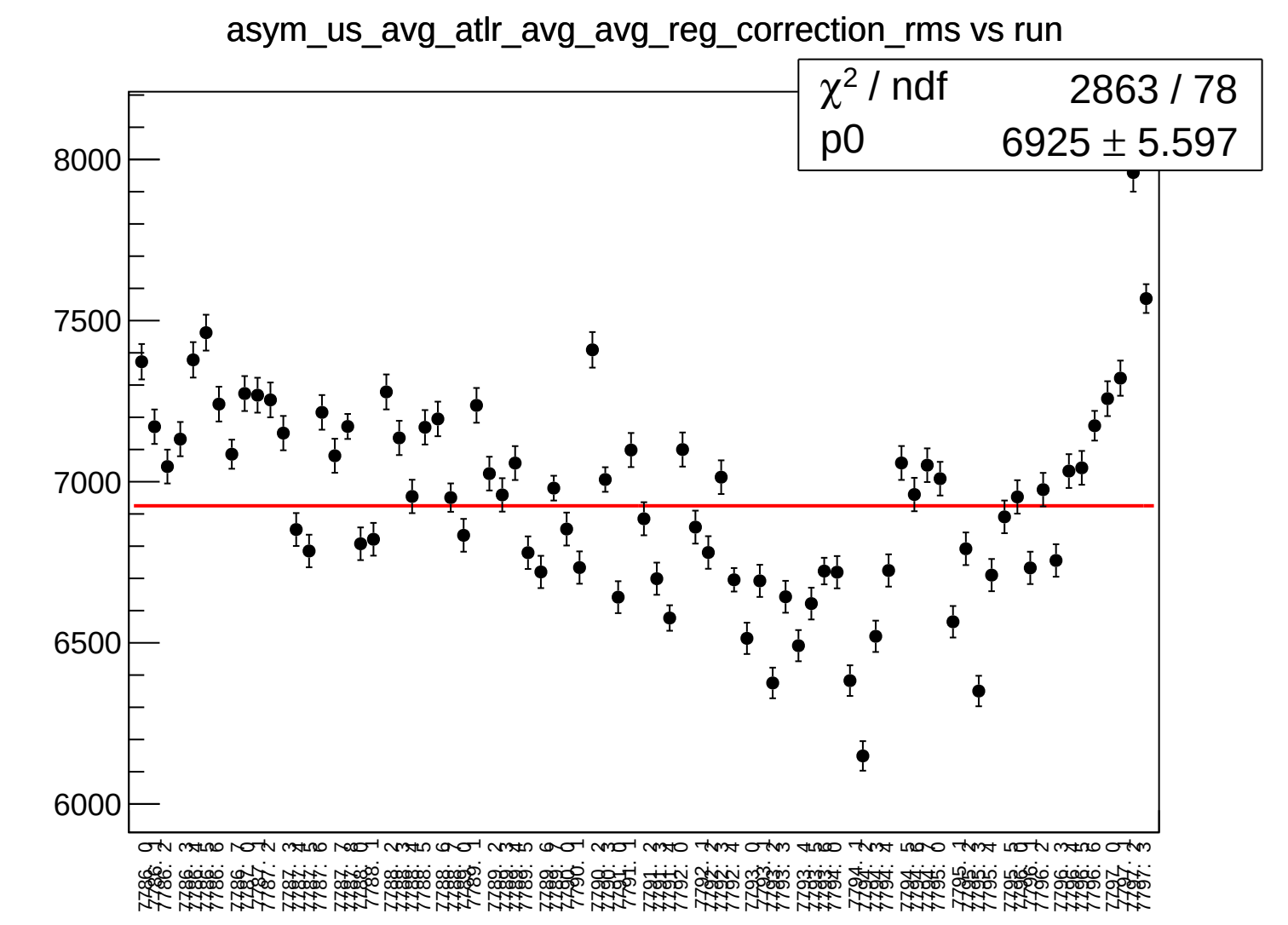

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 84.53 / 78
p0 −6231 ± 2056
pull
Entries 79
Mean 2619
Std Dev 0

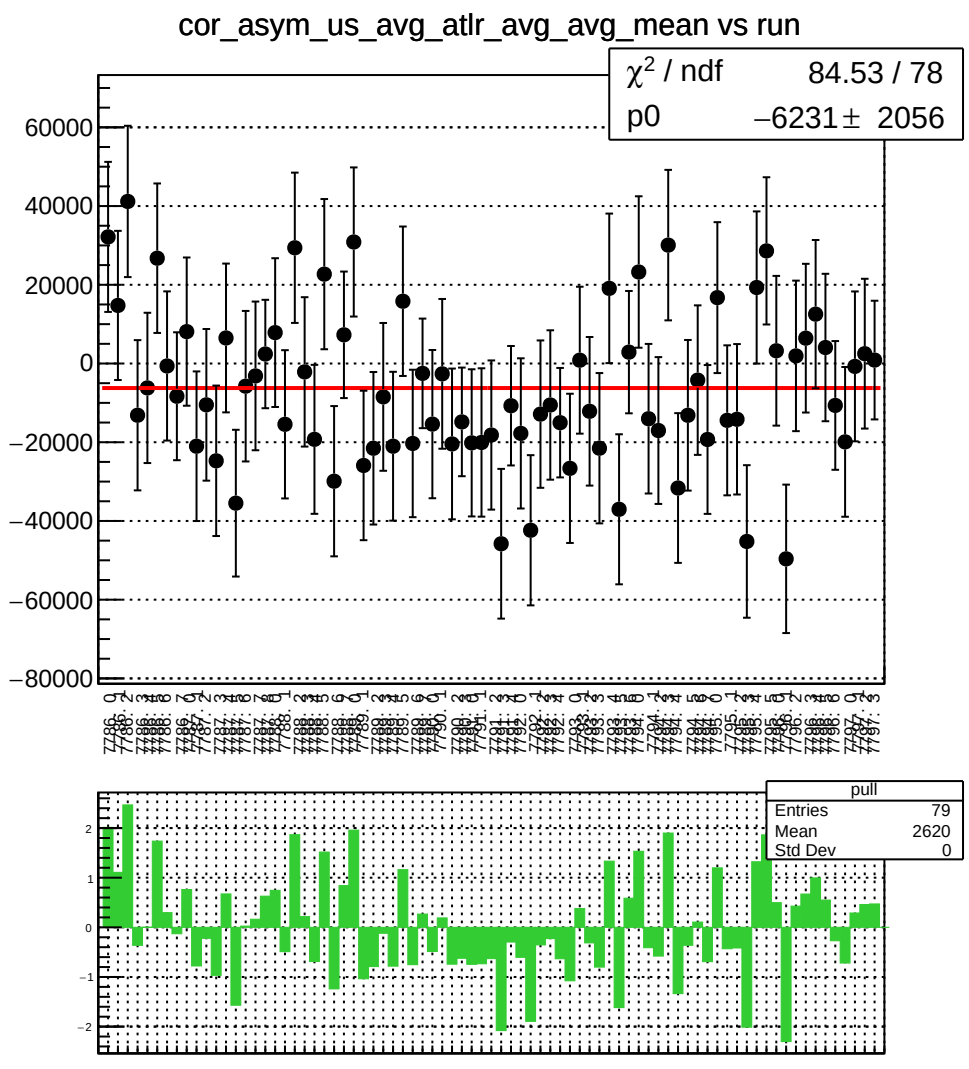

pull1D
Entries 79
Mean −0.00111
Std Dev 1.034

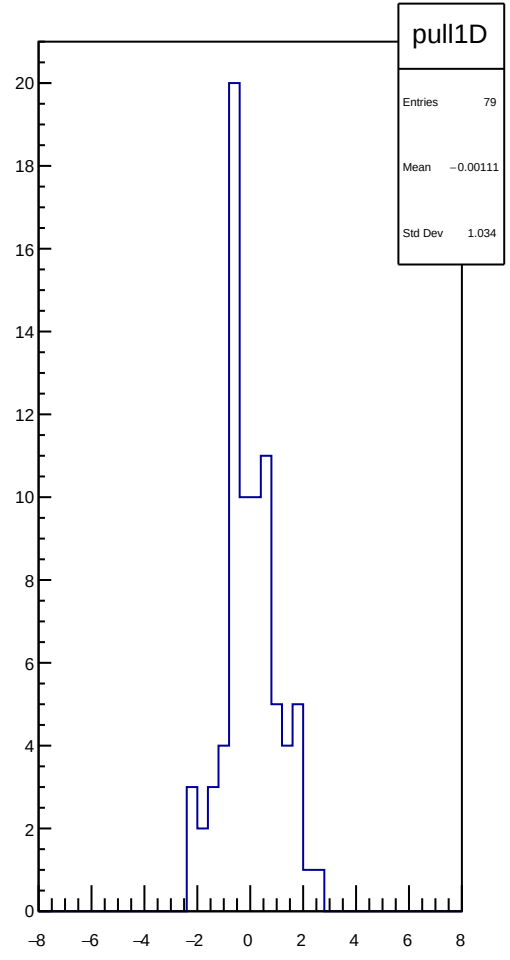

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 94.95 / 78
p0 1800 ± 1.454
1860
1840
1820
1800
1780
1760

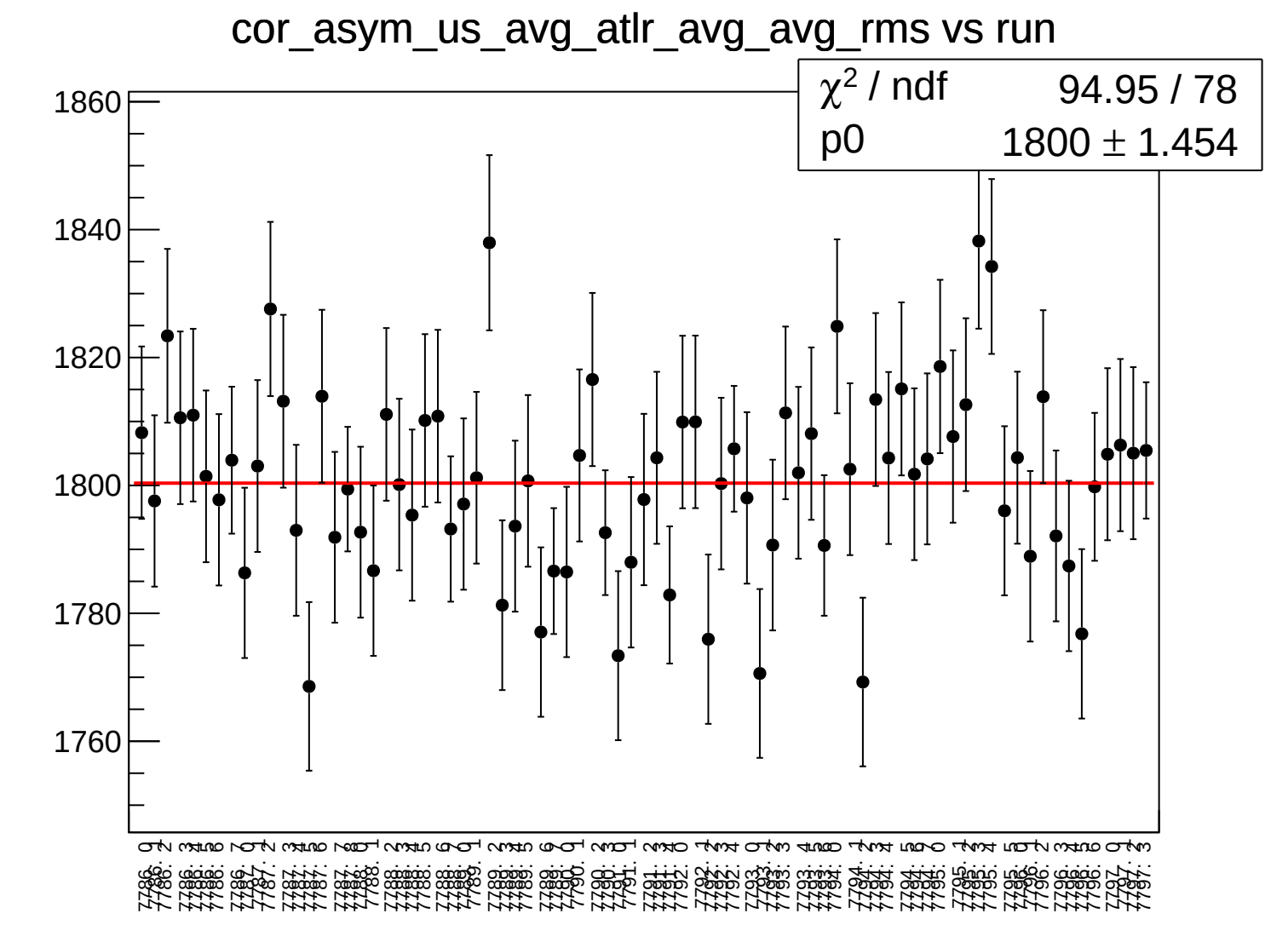

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.01 / 78
p0 365.8 ± 7915
200
100
0
−100
−200
pull
Entries 79
Mean −305.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

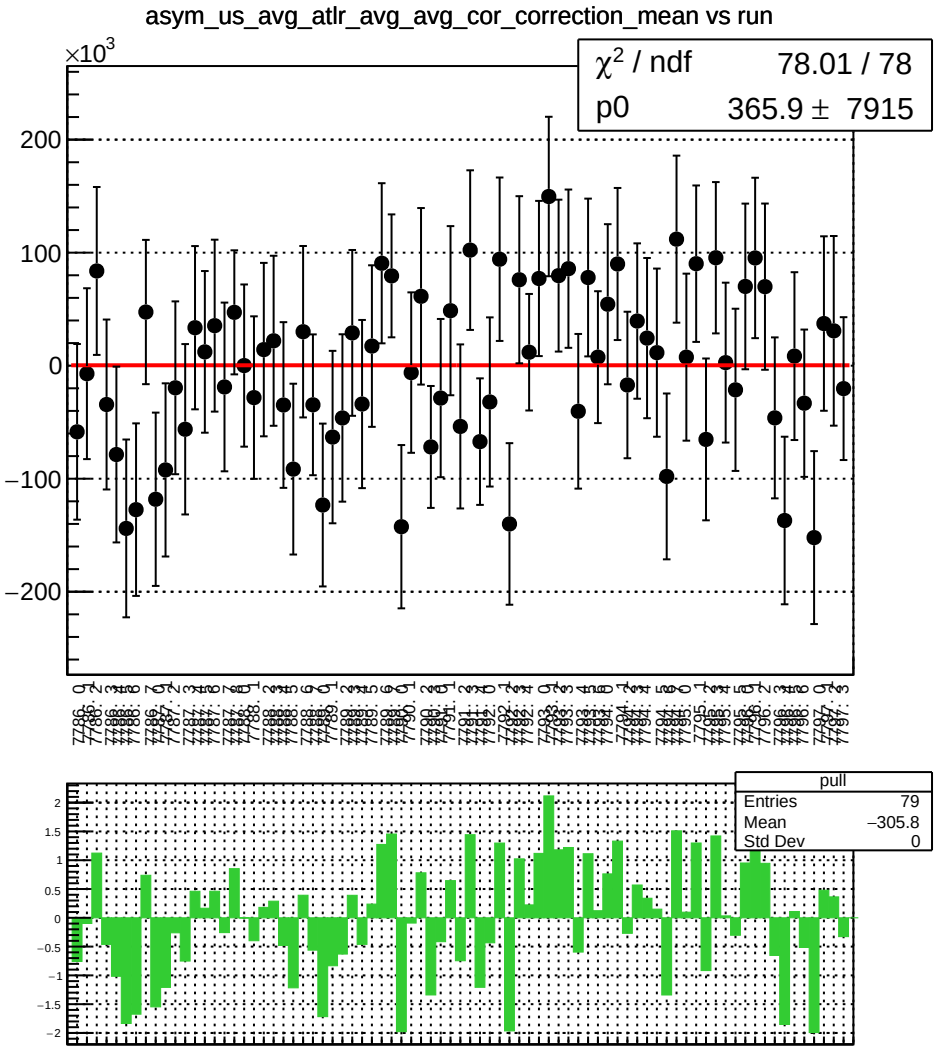

pull1D
Entries 79
Mean −0.01382
Std Dev 0.9936
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

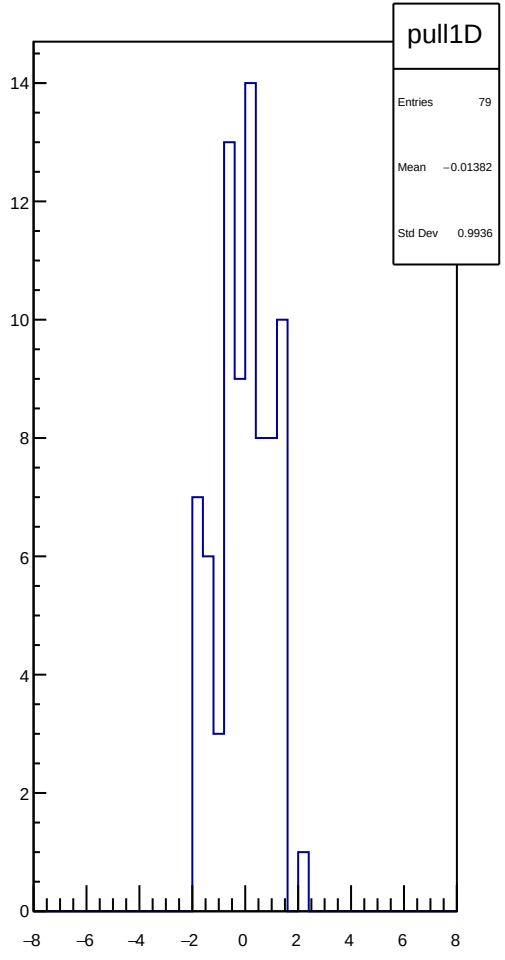

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 2863 / 78
p0 6925 ± 5.597
8000
7500
7000
6500
6000

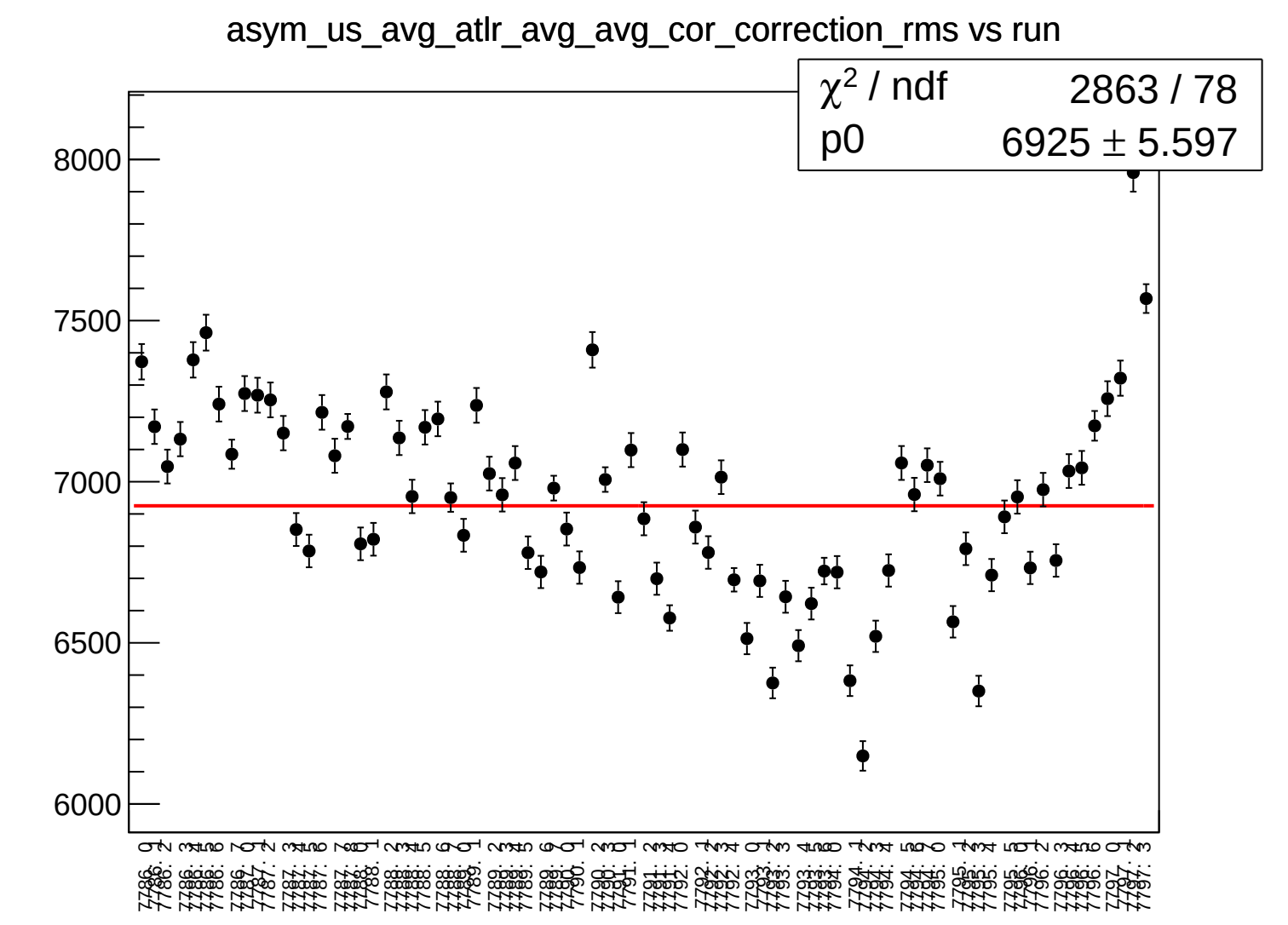

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 84.53 / 78
p0 −6231 ± 2056
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean 2620
Std Dev 0
2
1
0
−1
−2

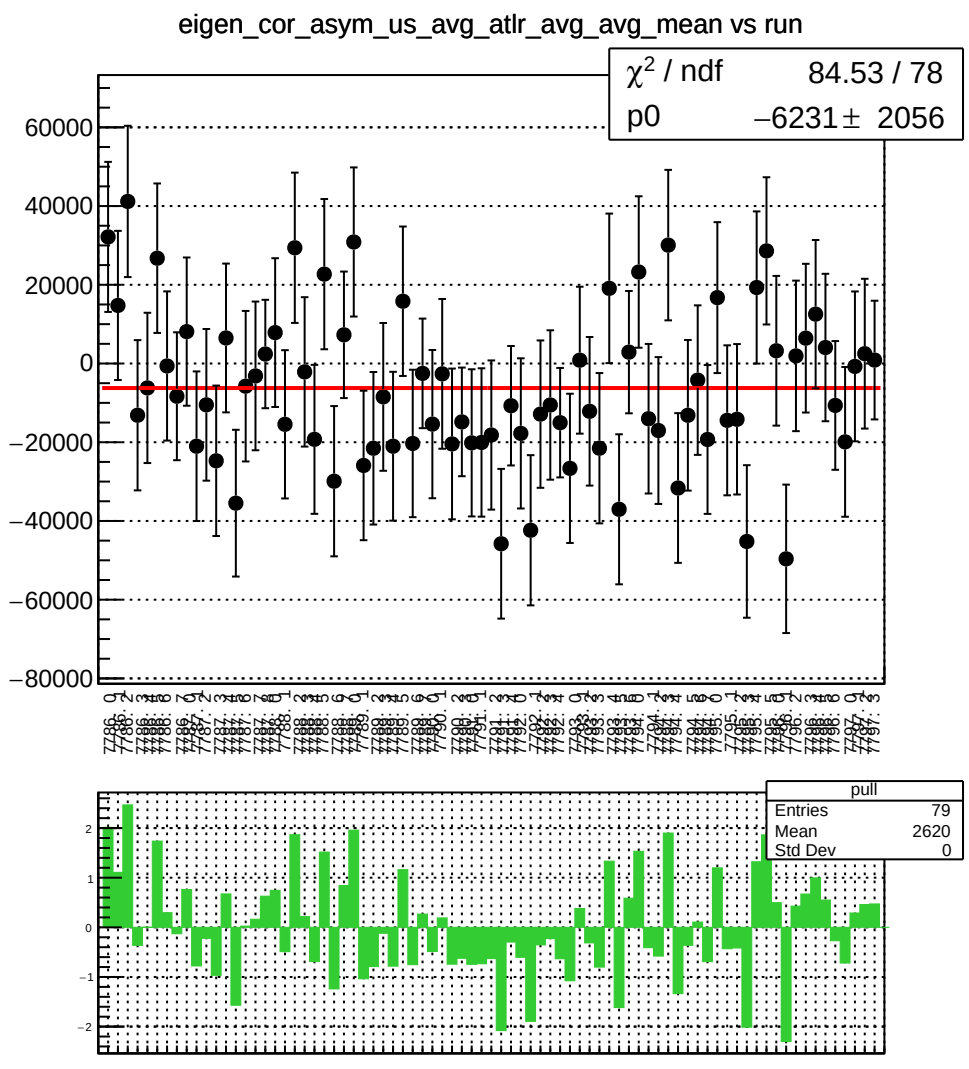

pull1D
Entries 79
Mean −0.00111
Std Dev 1.034
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

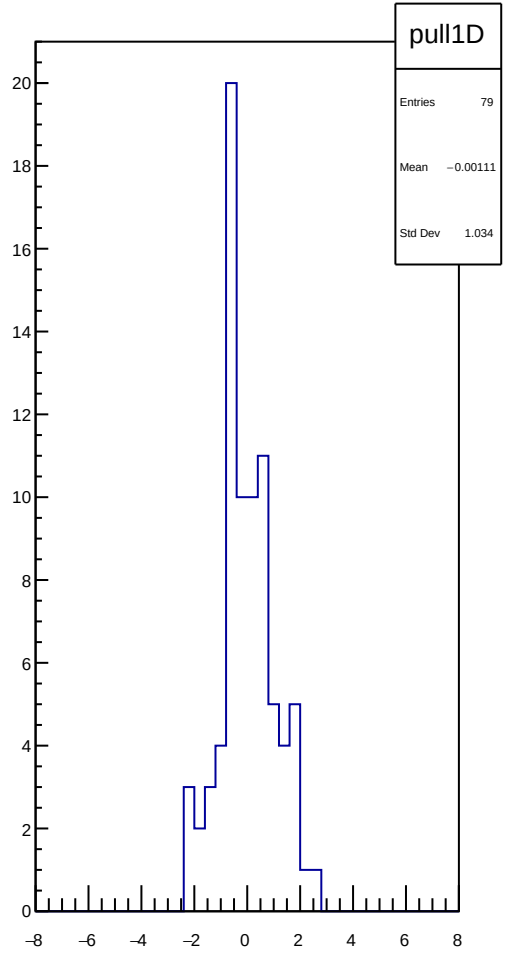

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 94.95 / 78
p0 1800 ± 1.454
1860
1840
1820
1800
1780
1760

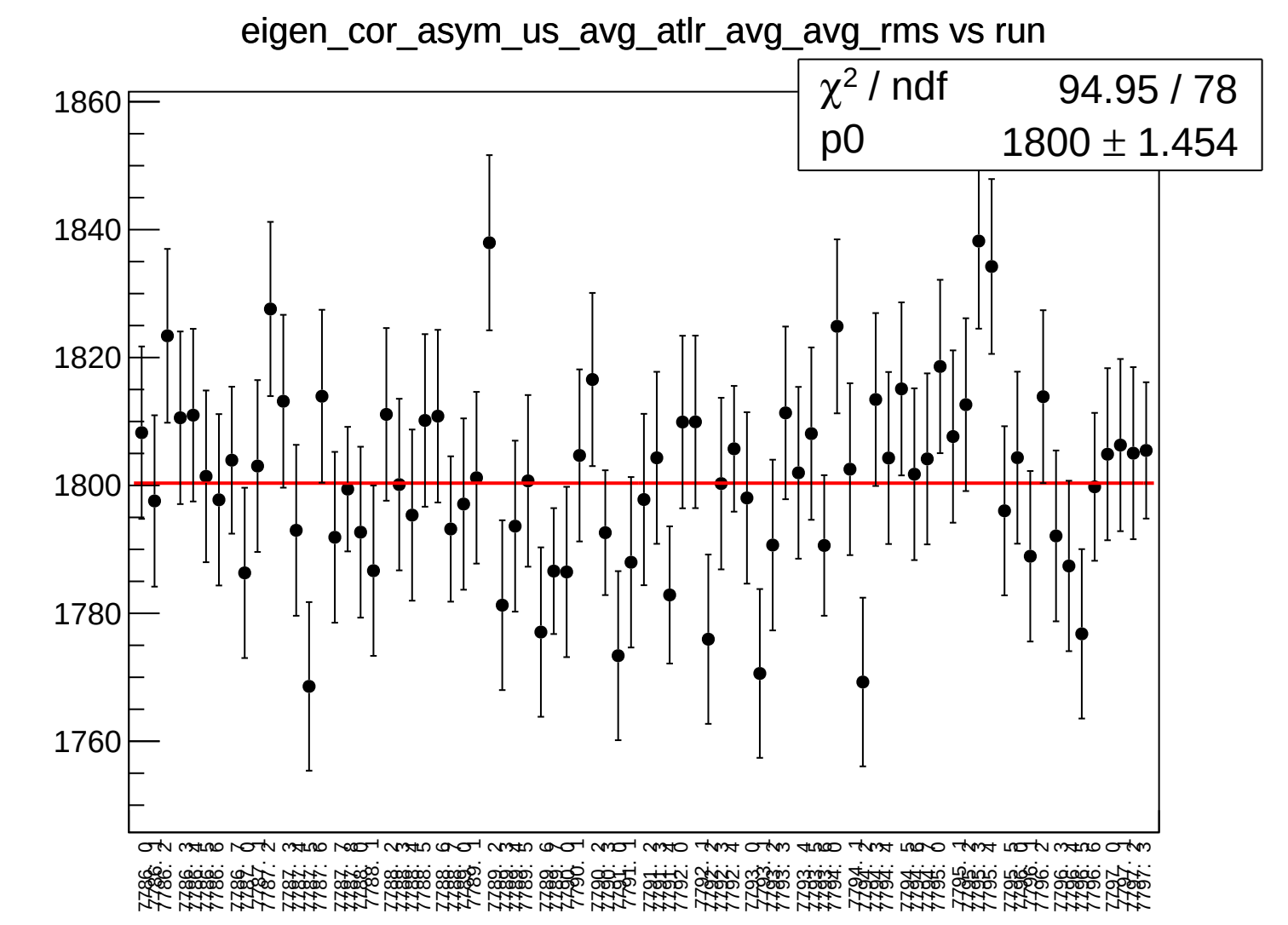

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.01 / 78
p0 365.9 ± 7915
200
100
0
−100
−200
pull
Entries 79
Mean −305.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

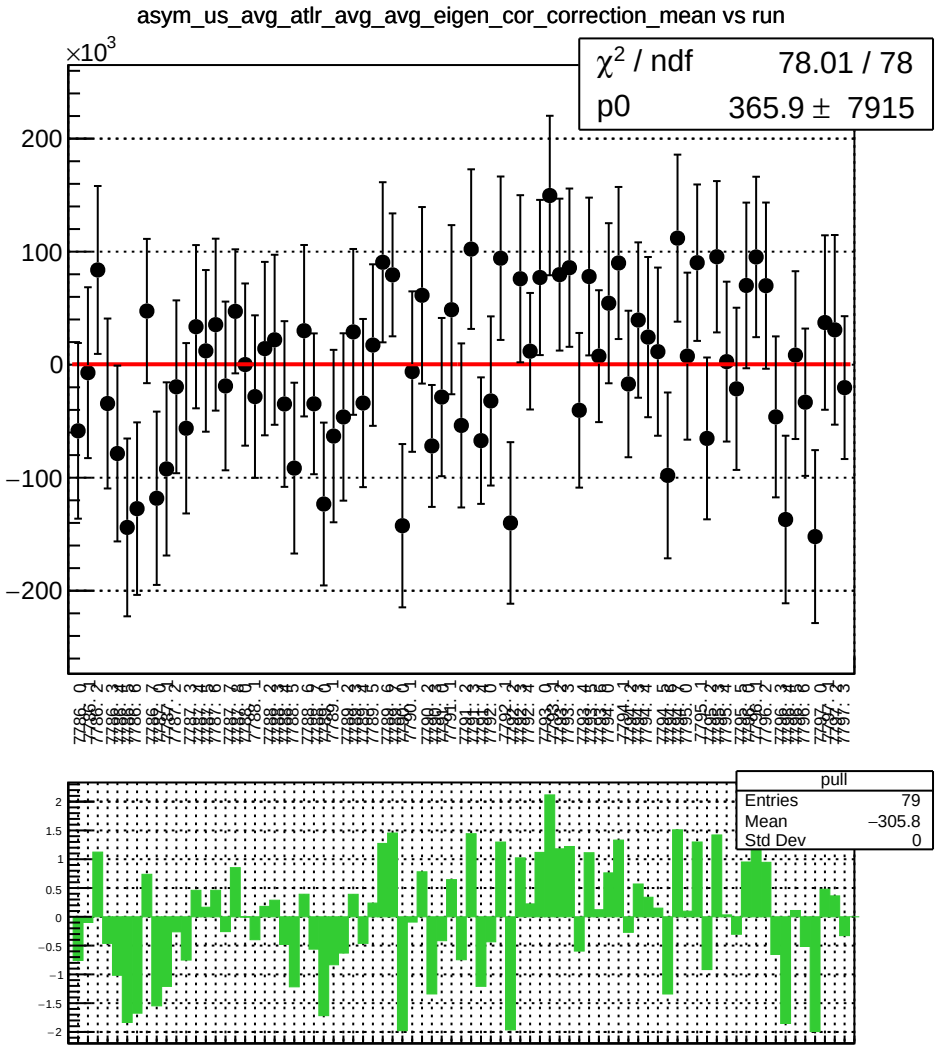

pull1D
Entries 79
Mean −0.01382
Std Dev 0.9936
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

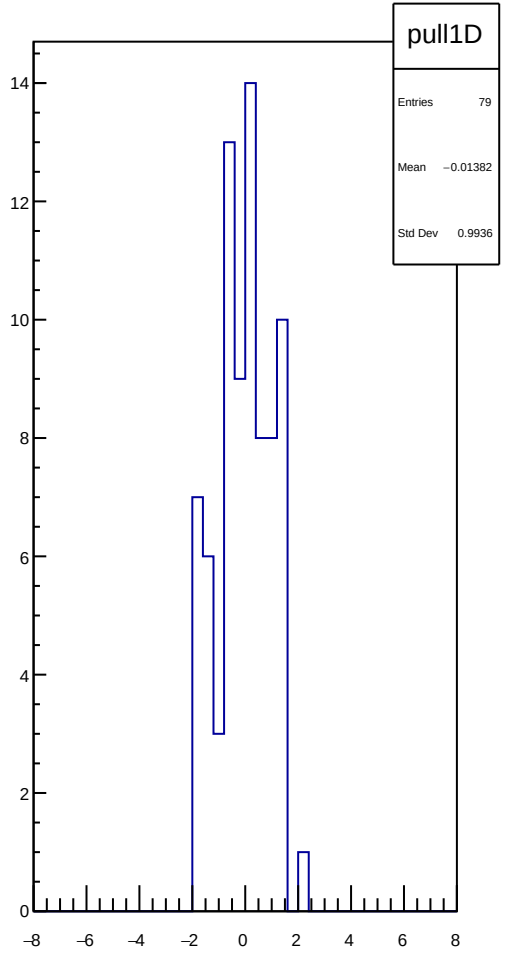

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 2863 / 78
p0 6925 ± 5.597
8000
7500
7000
6500
6000

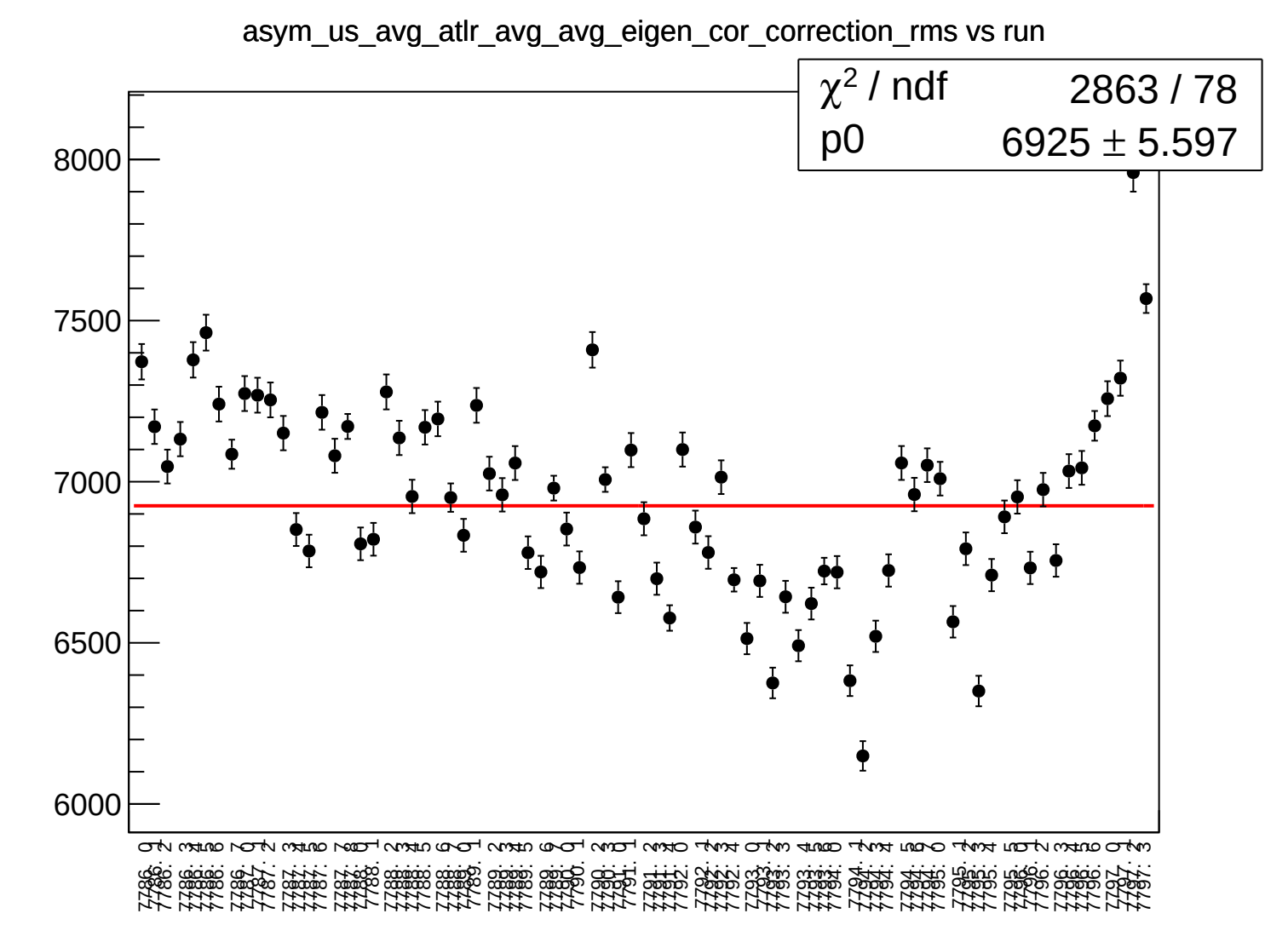

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 84.53 / 78
p0 −6231 ± 2056
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean 2620
Std Dev 0
2
1
0
−1
−2

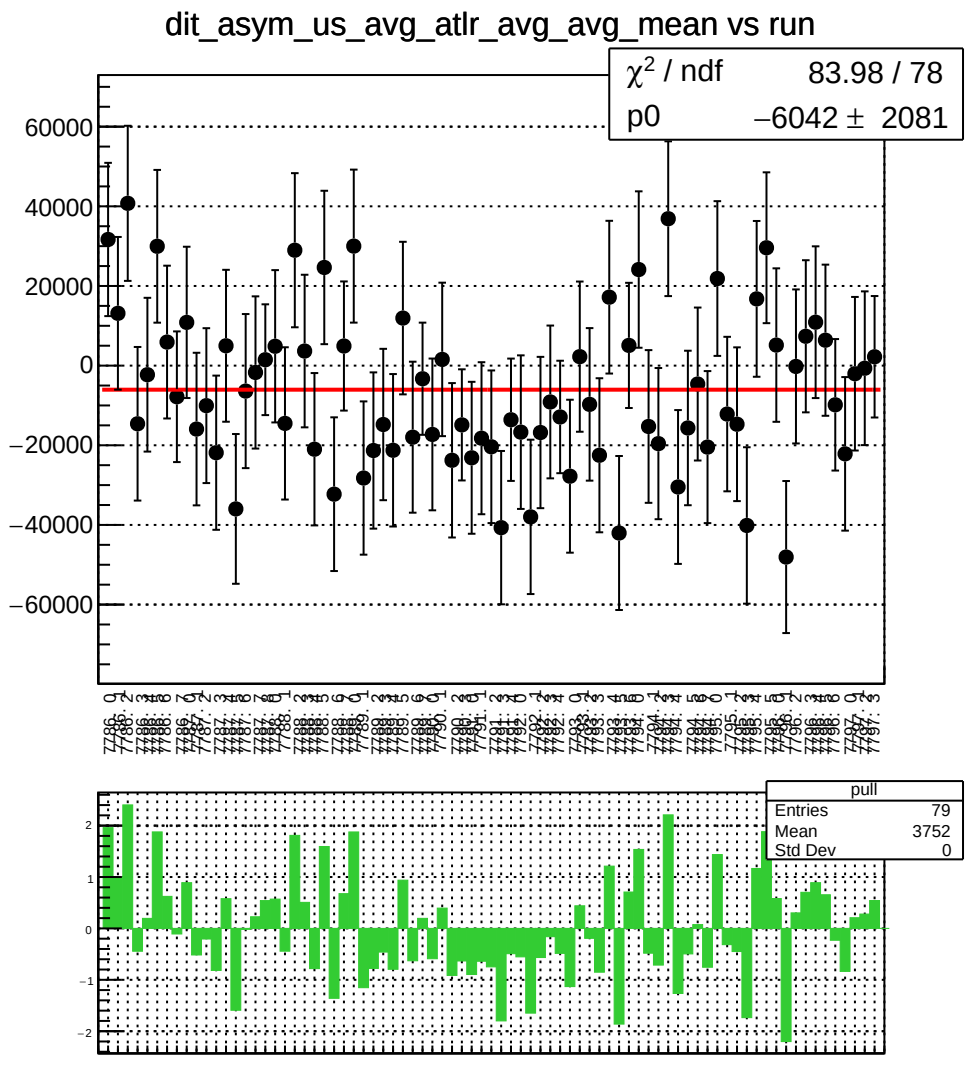

pull1D
Entries 79
Mean −0.00111
Std Dev 1.034
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

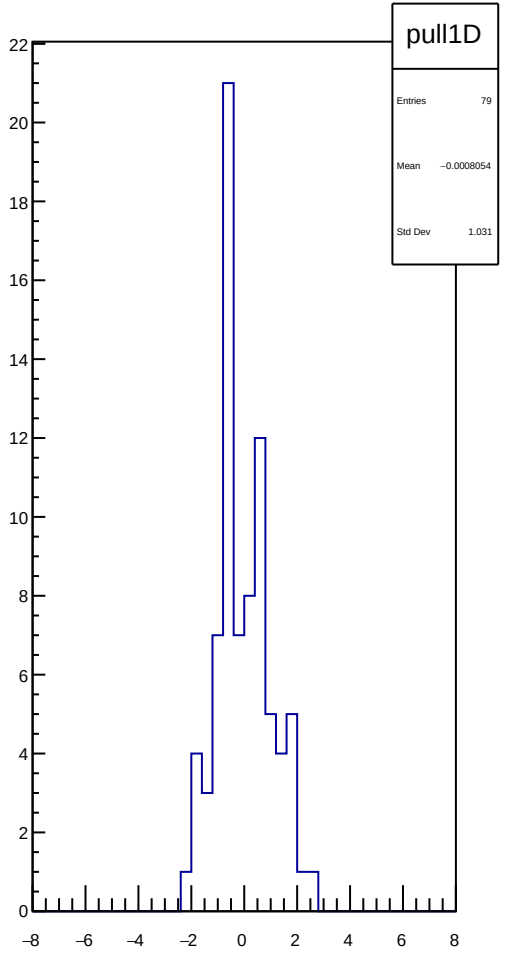

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 94.95 / 78
p0 1800 ± 1.454
1860
1840
1820
1800
1780
1760

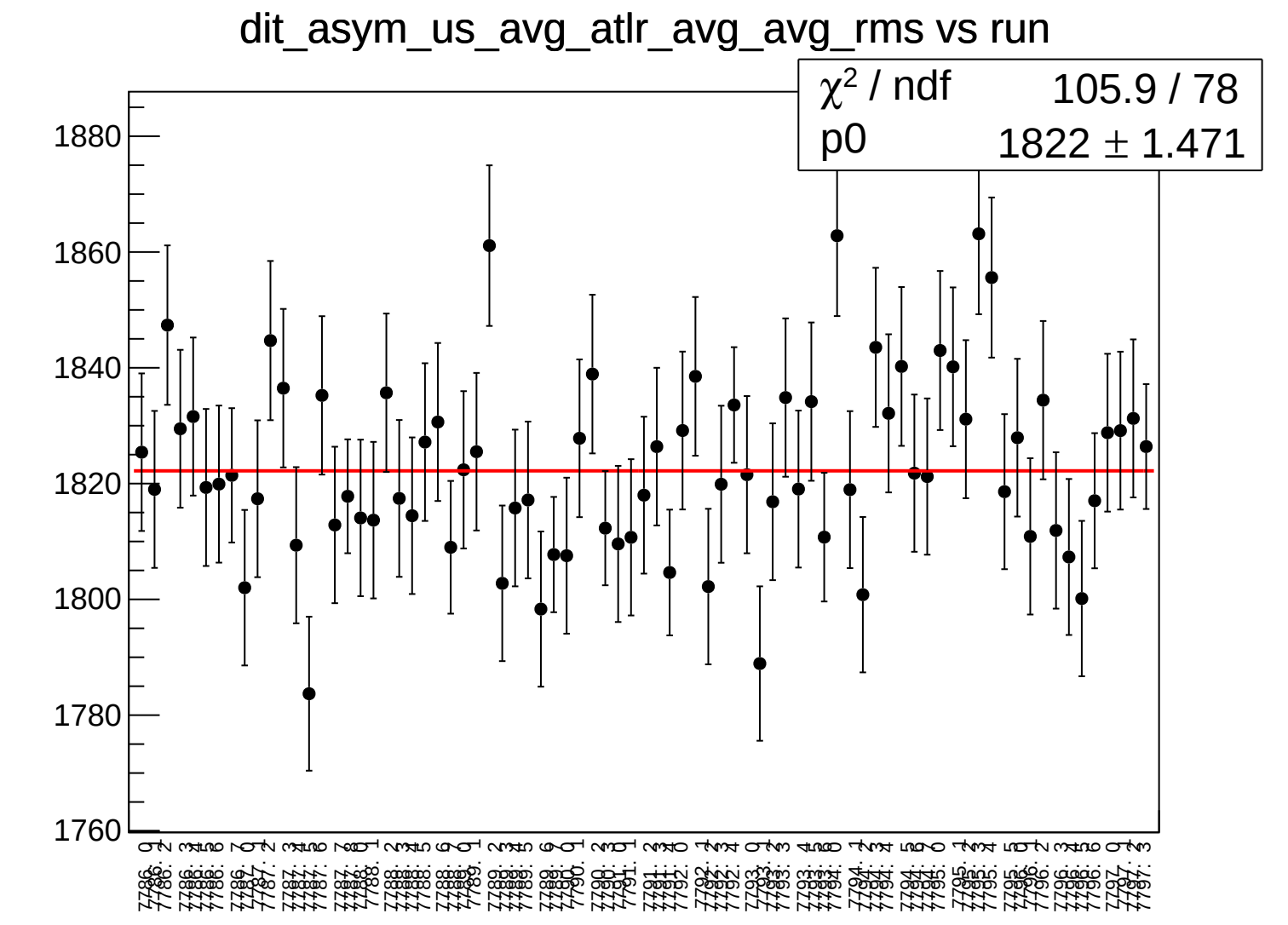

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.01 / 78
p0 365.9 ± 7915
200
100
0
−100
−200
pull
Entries 79
Mean −305.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

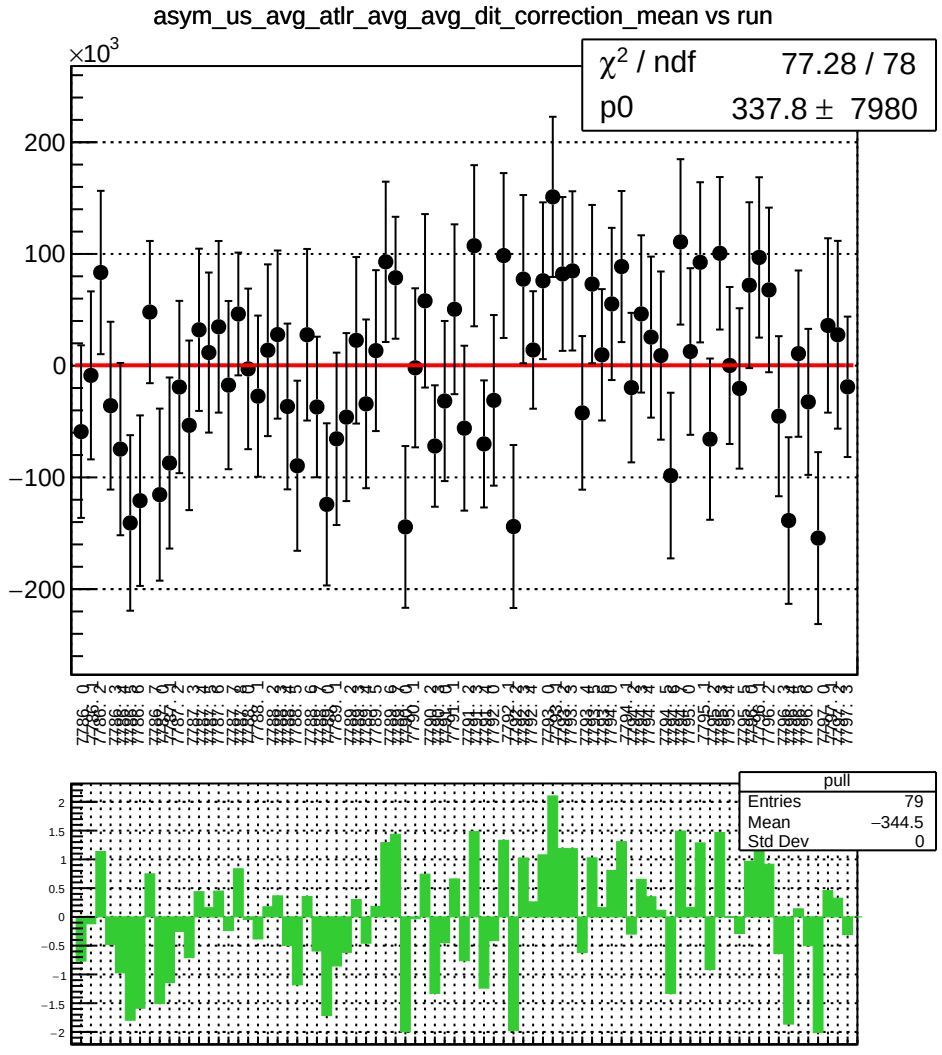

pull1D
Entries 79
Mean −0.01382
Std Dev 0.9936
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

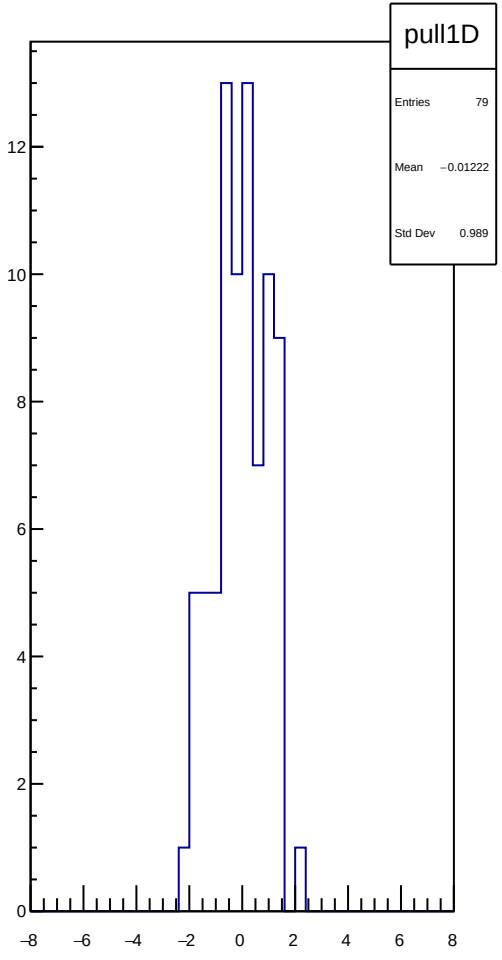

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2863 / 78
p0 6925 ± 5.597
8000
7500
7000
6500
6000

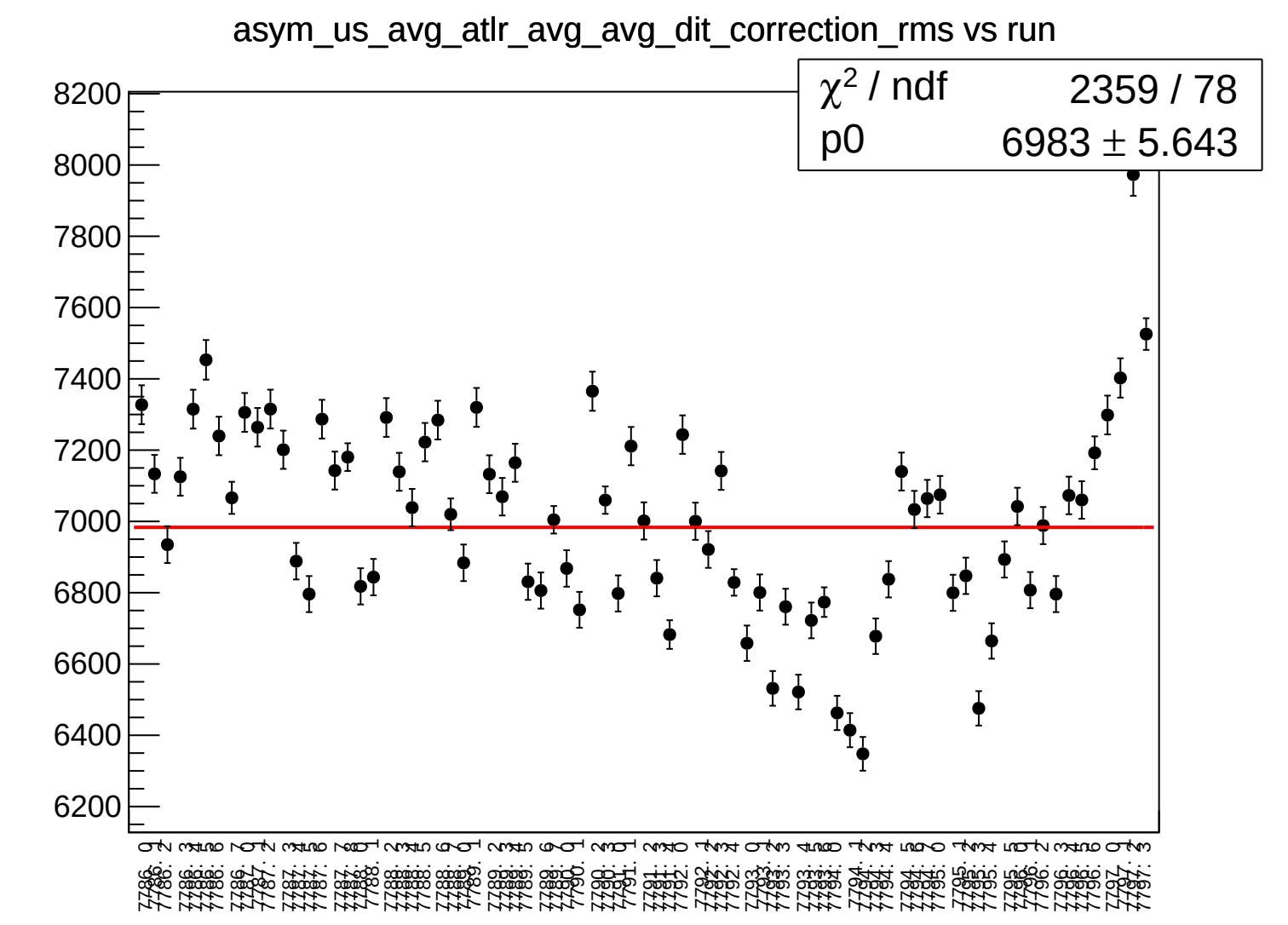

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 83.98 / 78
p0 −6042 ± 2081
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 3752
Std Dev 0
2
1
0
−1
−2

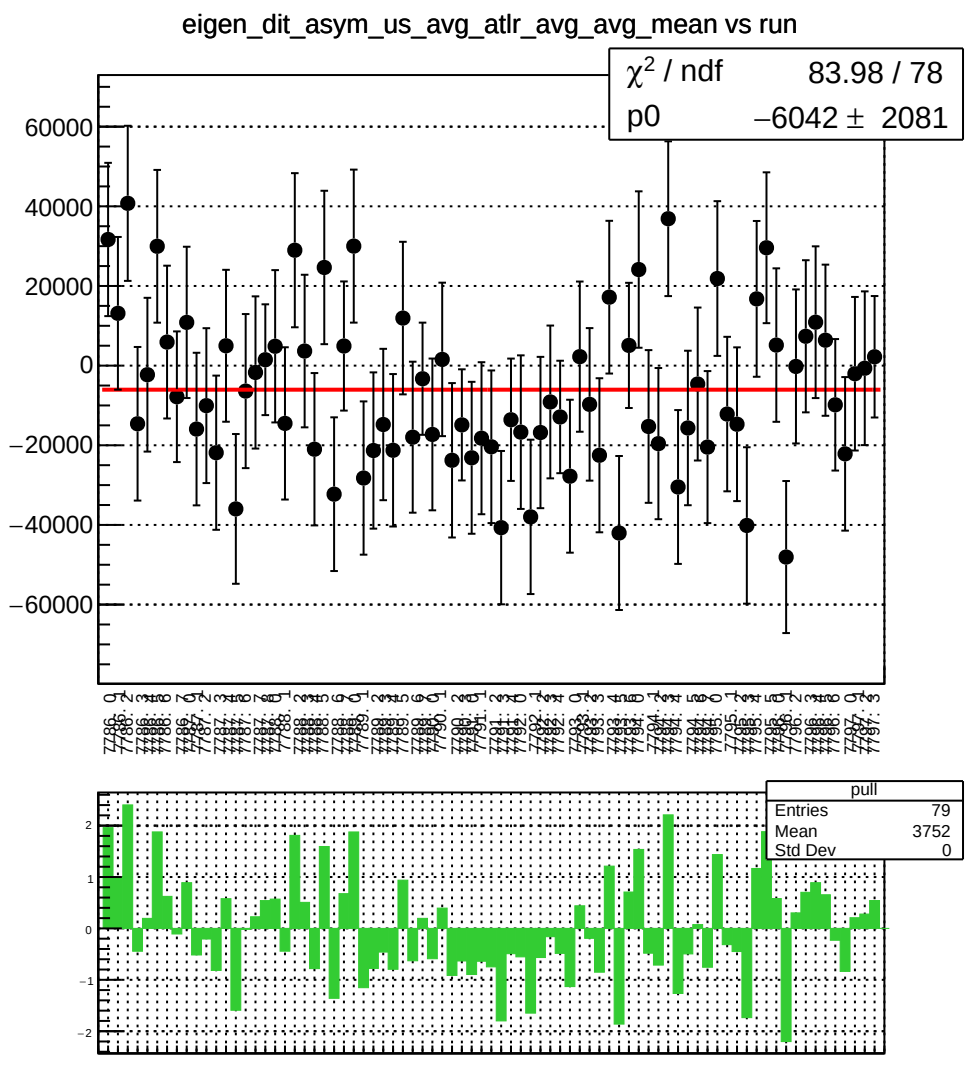

pull1D
Entries 79
Mean −0.0008054
Std Dev 1.031
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

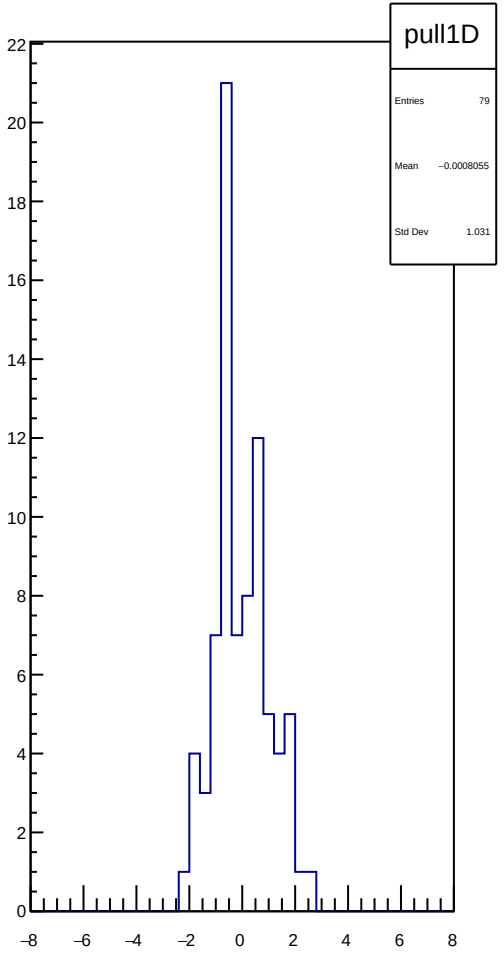

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 105.9 / 78
p0 1822 ± 1.471
1880
1860
1840
1820
1800
1780
1760

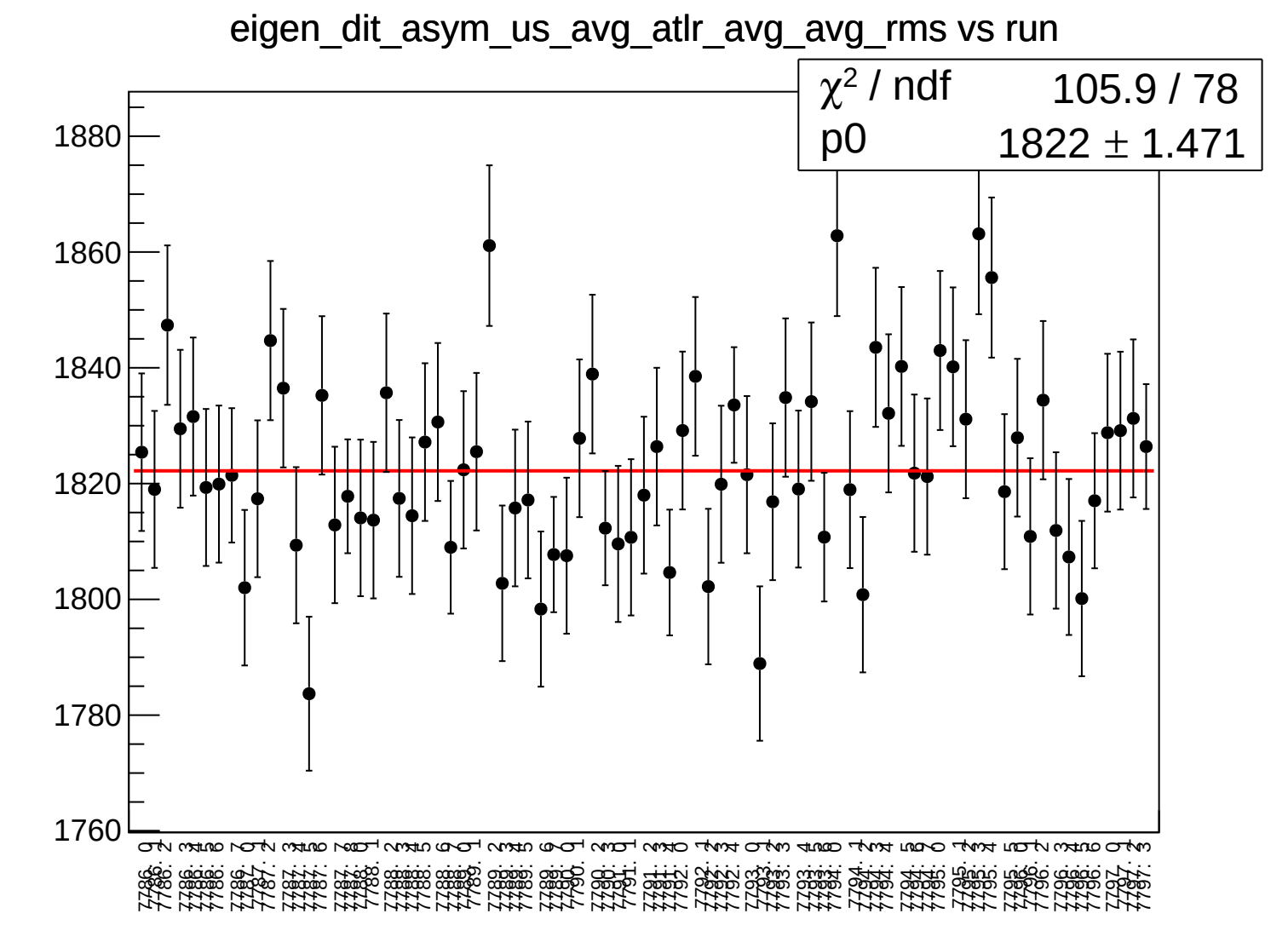

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.28 / 78
p0 337.8 ± 7980
200
100
0
−100
−200
pull
Entries 79
Mean −344.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

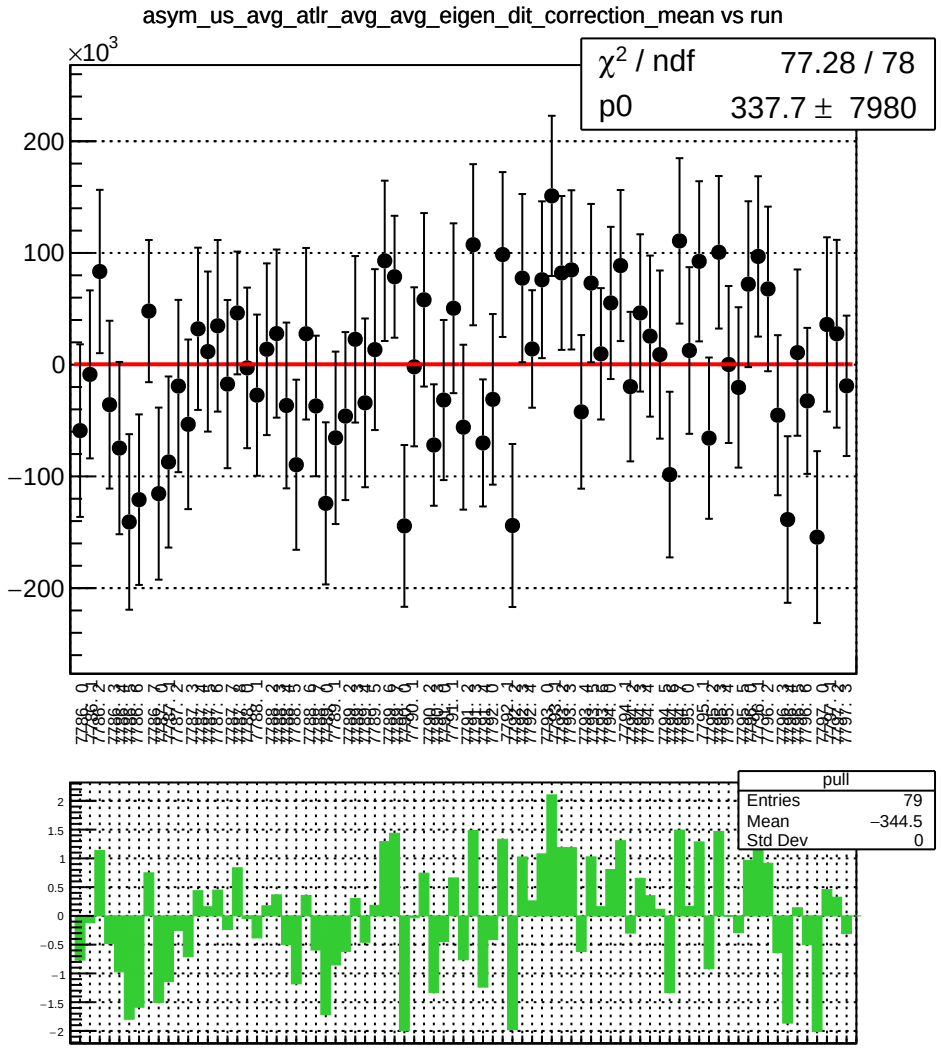

pull1D
Entries 79
Mean −0.01222
Std Dev 0.989
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

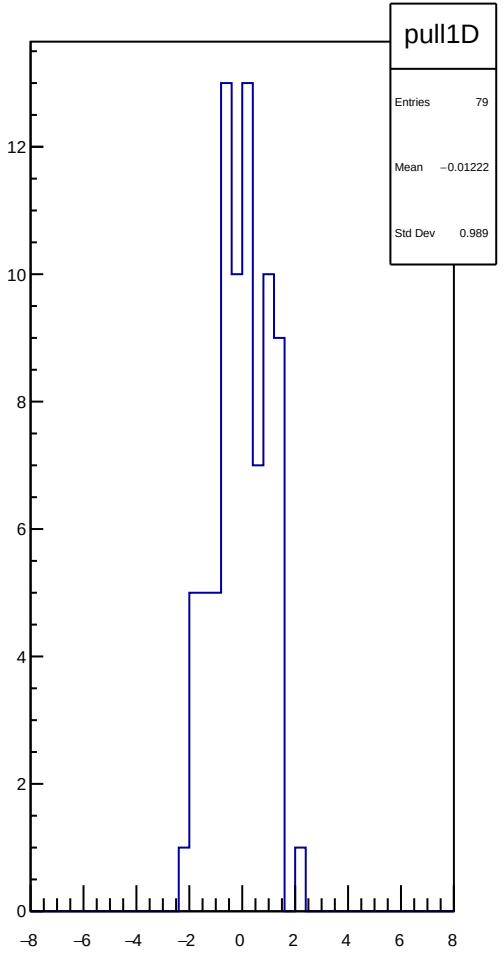

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 2359 / 78
p0 6983 ± 5.643
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

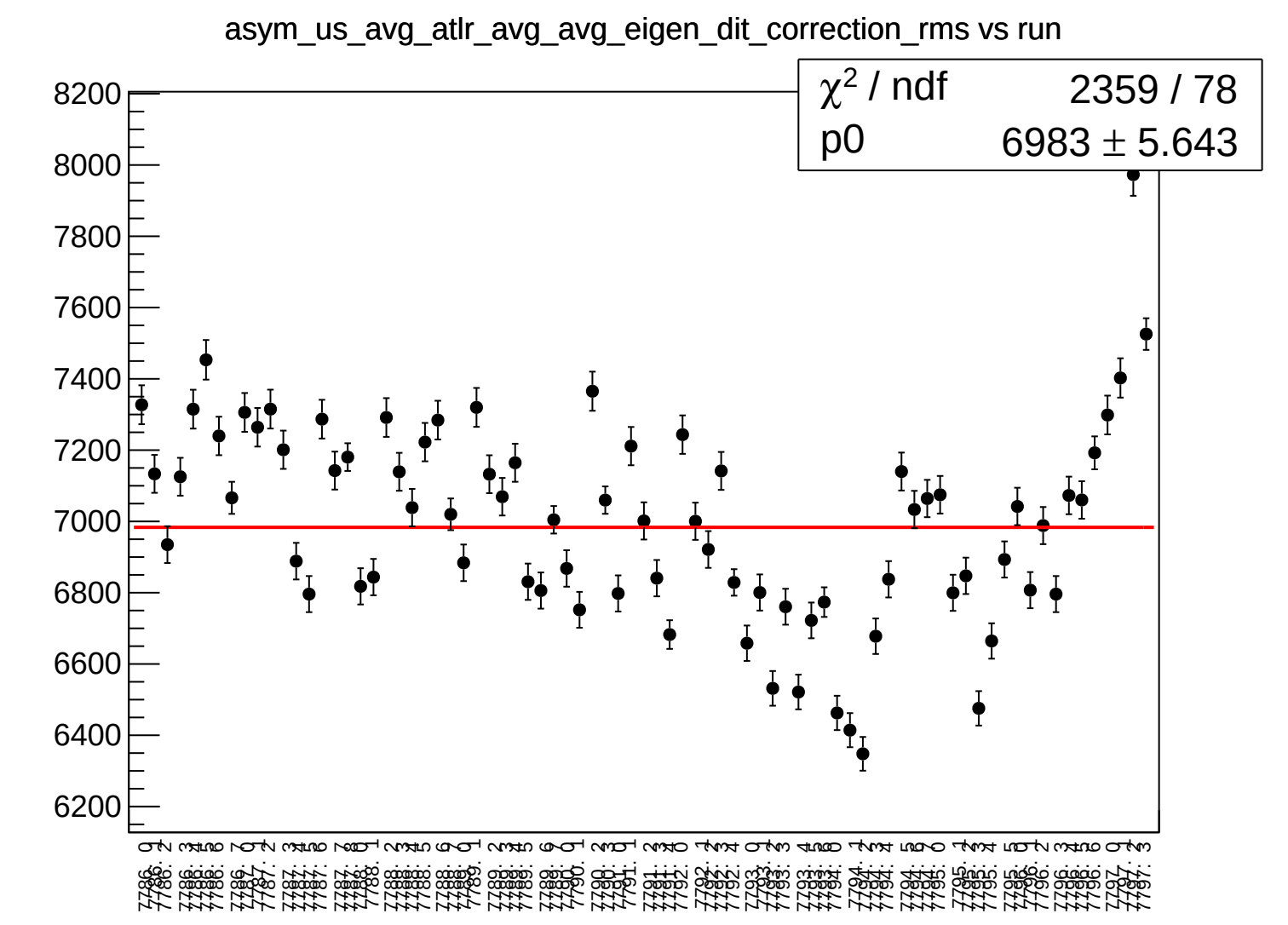

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 83.98 / 78
p0 −6042 ± 2081
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 3752
Std Dev 0
2
1
0
−1
−2

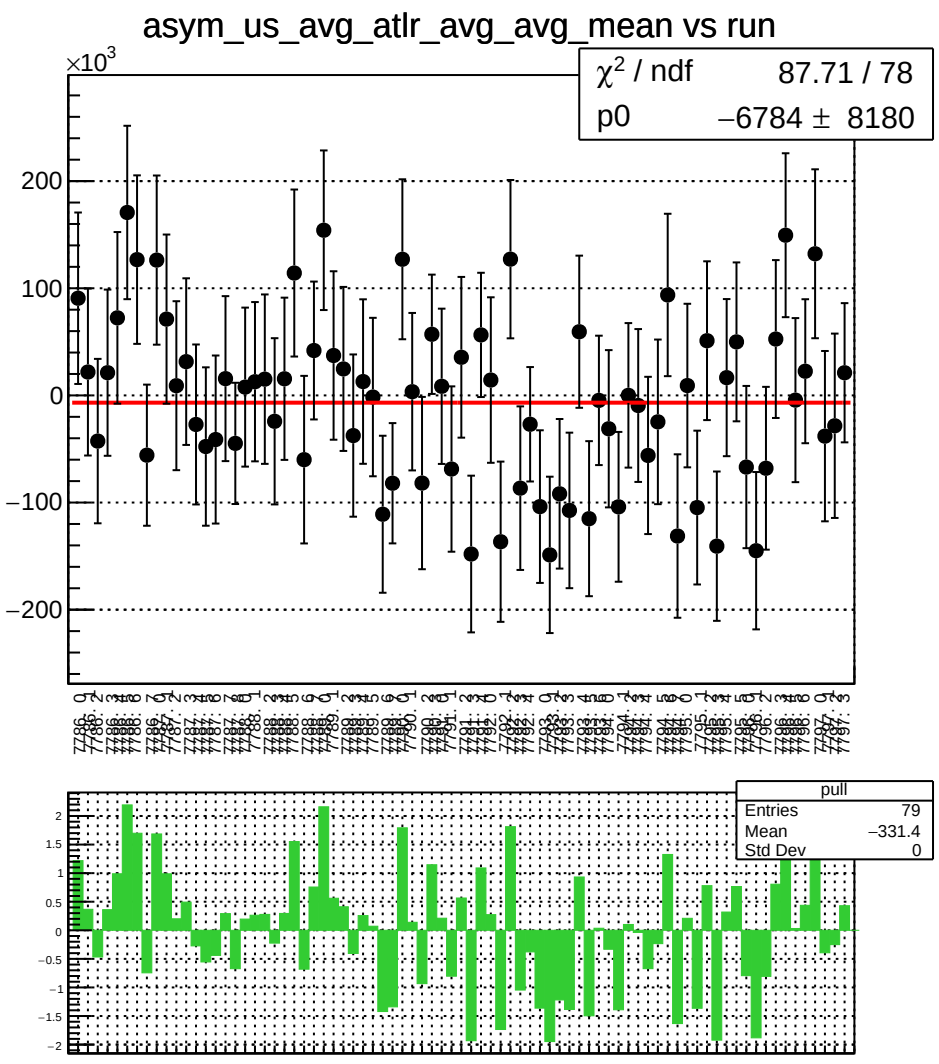

pull1D
Entries 79
Mean −0.0008055
Std Dev 1.031
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

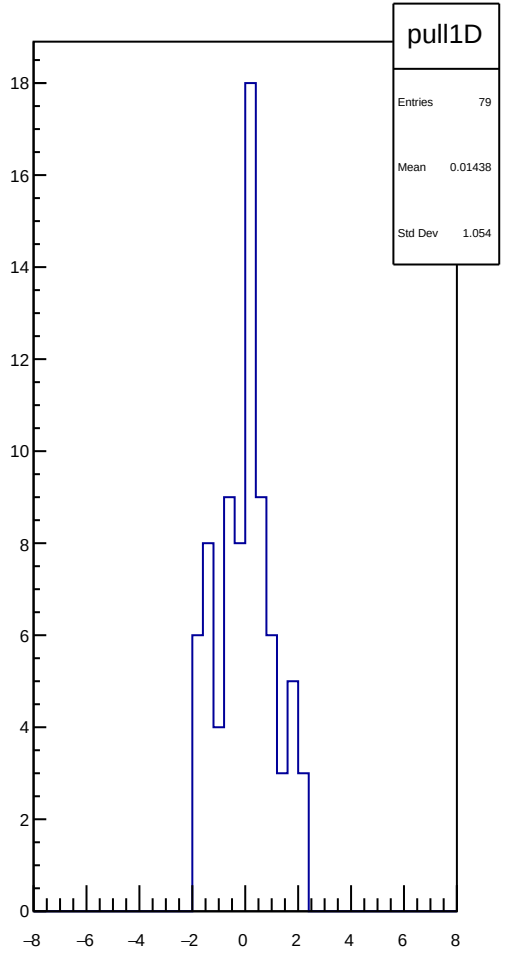

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 105.9 / 78
p0 1822 ± 1.471
1880
1860
1840
1820
1800
1780
1760

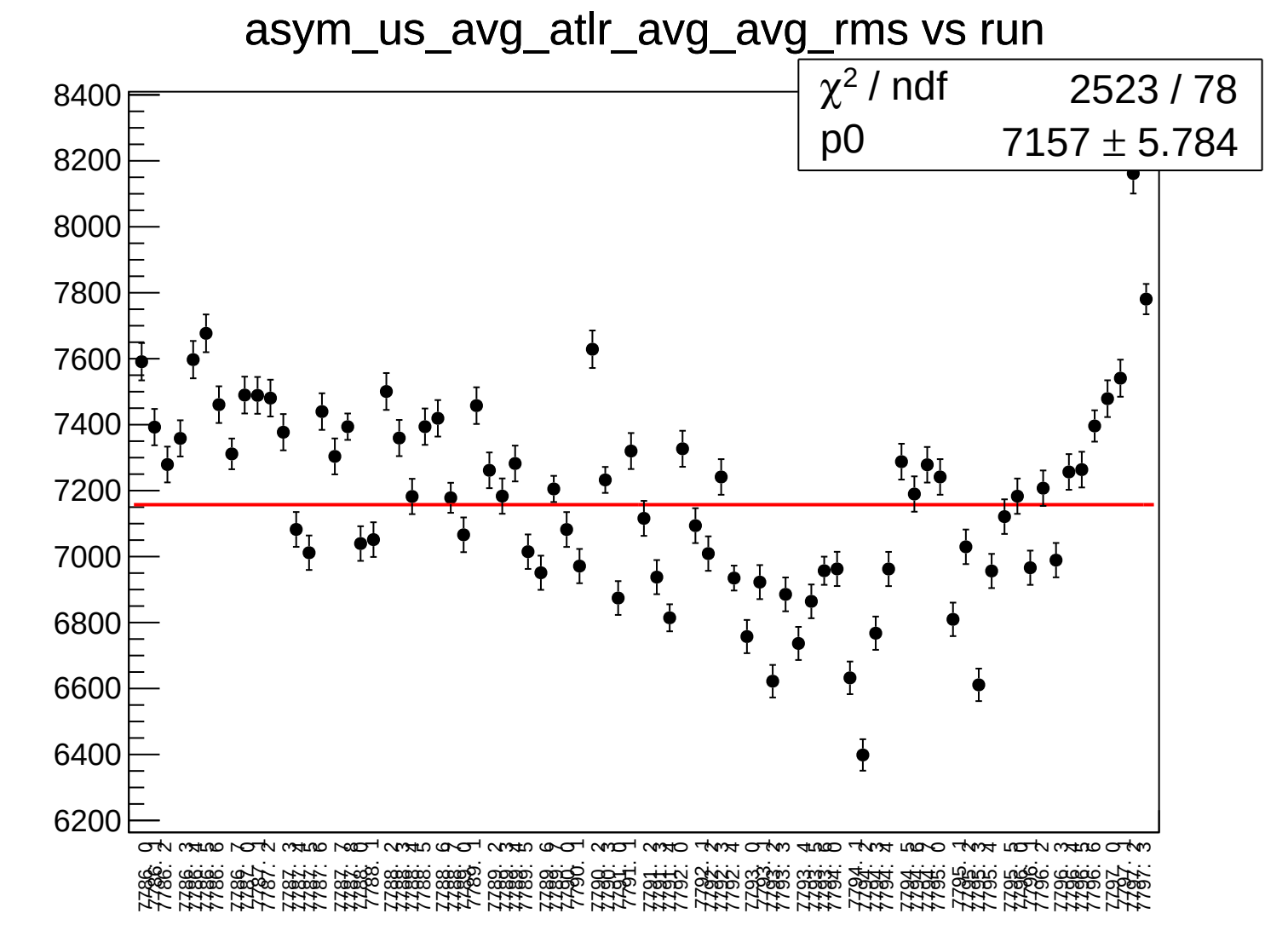

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.28 / 78
p0 337.7 ± 7980
200
100
0
−100
−200
pull
Entries 79
Mean −344.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

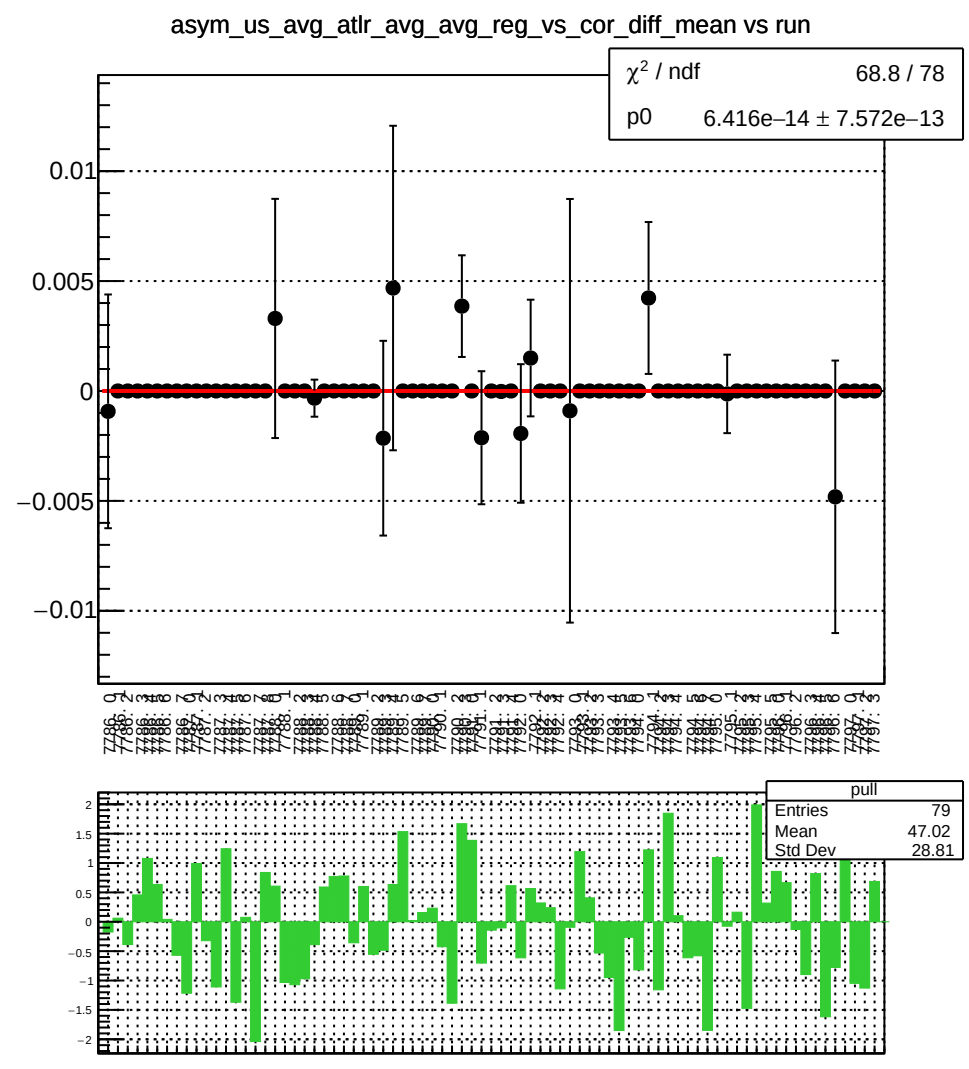

pull1D
Entries 79
Mean −0.01222
Std Dev 0.989
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

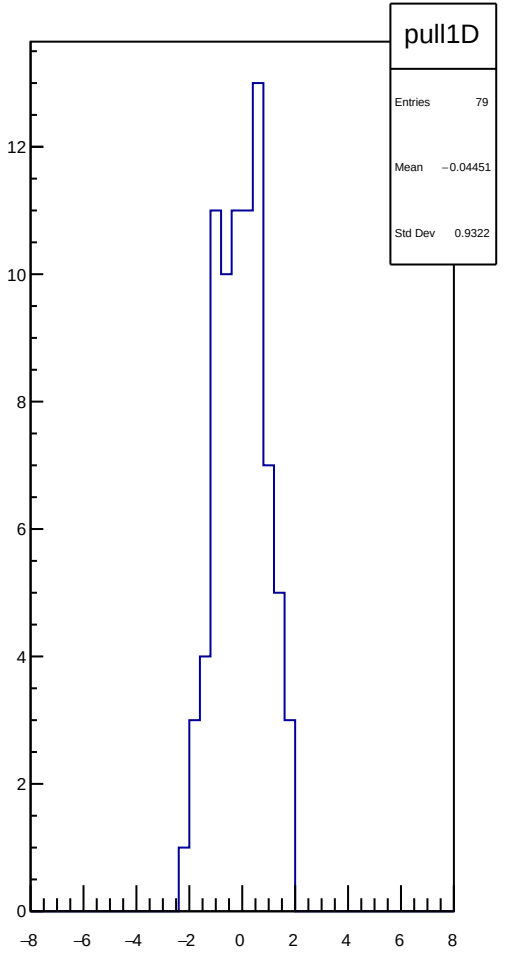

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2359 / 78
p0 6983 ± 5.643
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

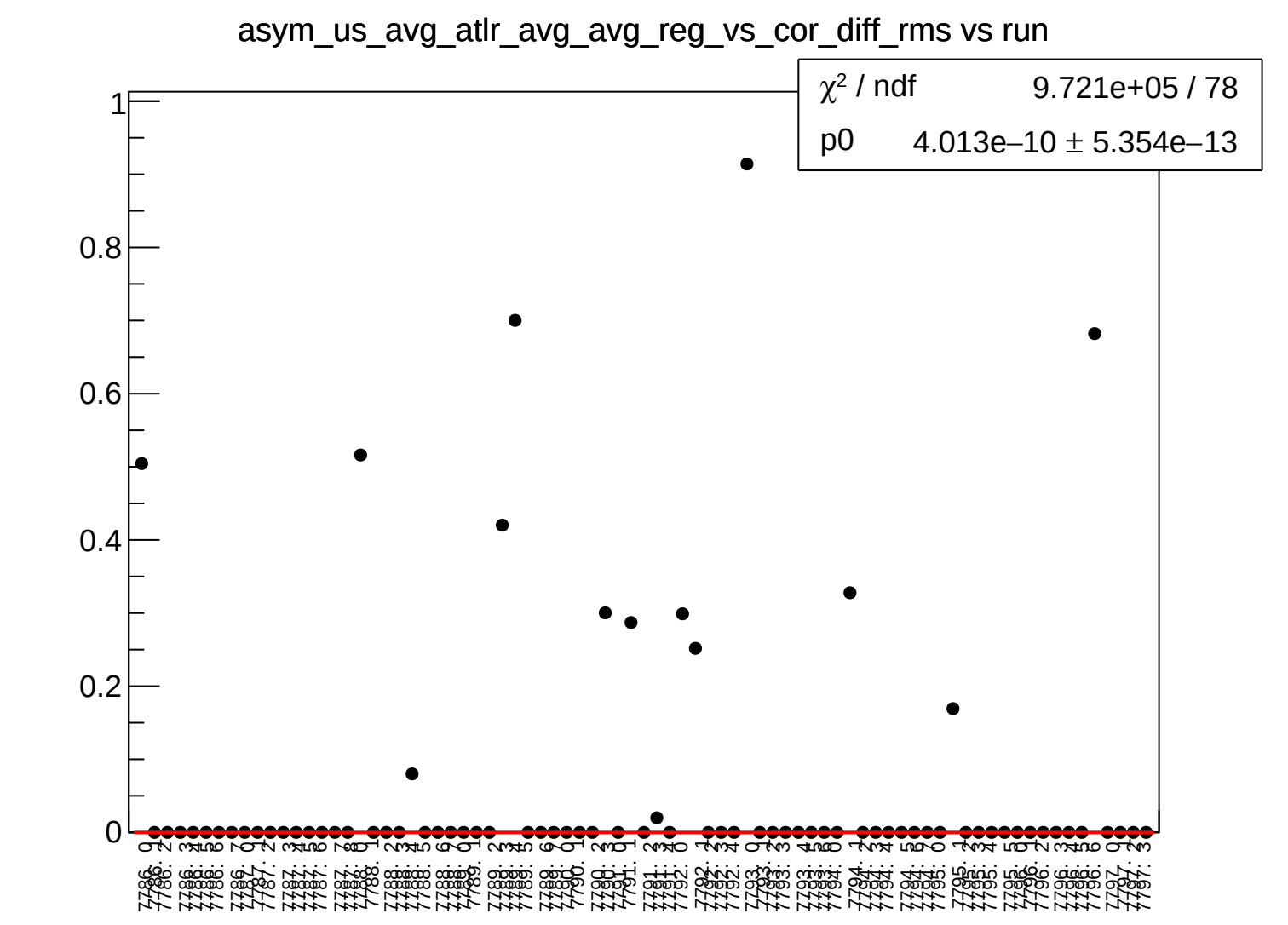

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 87.71 / 78
p0 −6784 ± 8180
200
100
0
−100
−200
pull
Entries 79
Mean −331.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

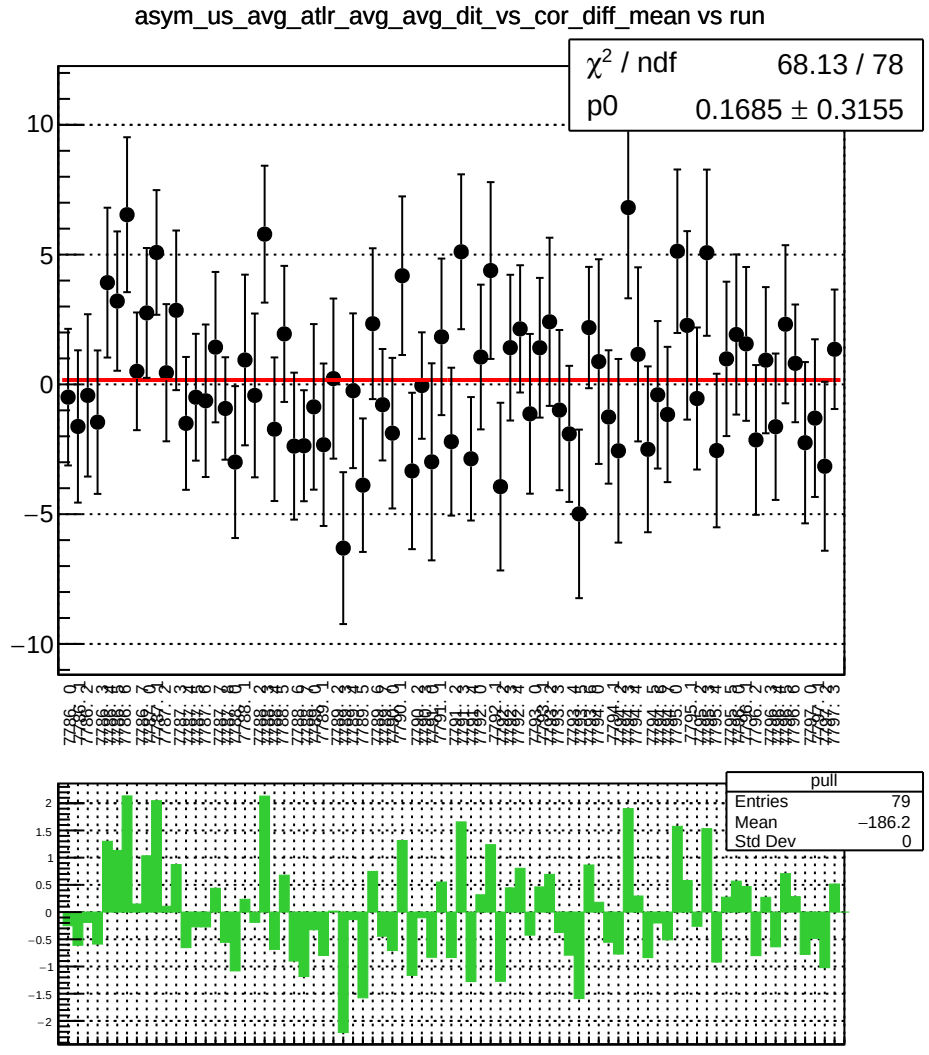

pull1D
Entries 79
Mean 0.01438
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

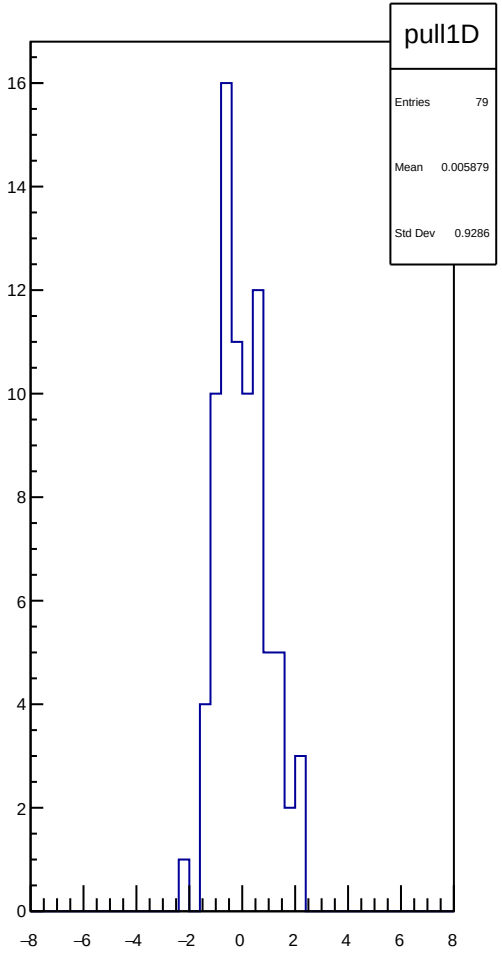

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 2523 / 78
p0 7157 ± 5.784
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

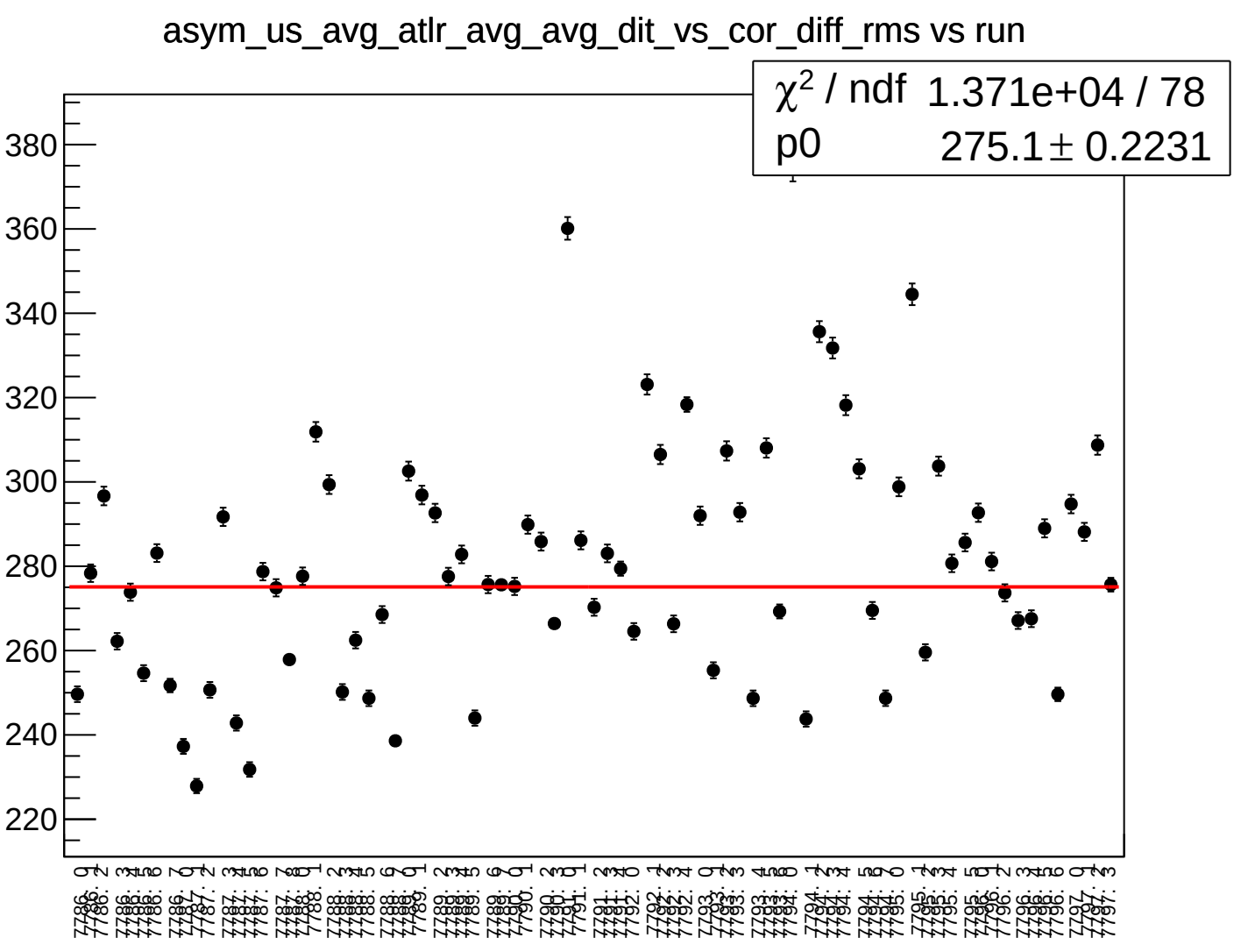

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.8 / 78
p0 6.416e−14 ± 7.572e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 79
Mean 47.02
Std Dev 28.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

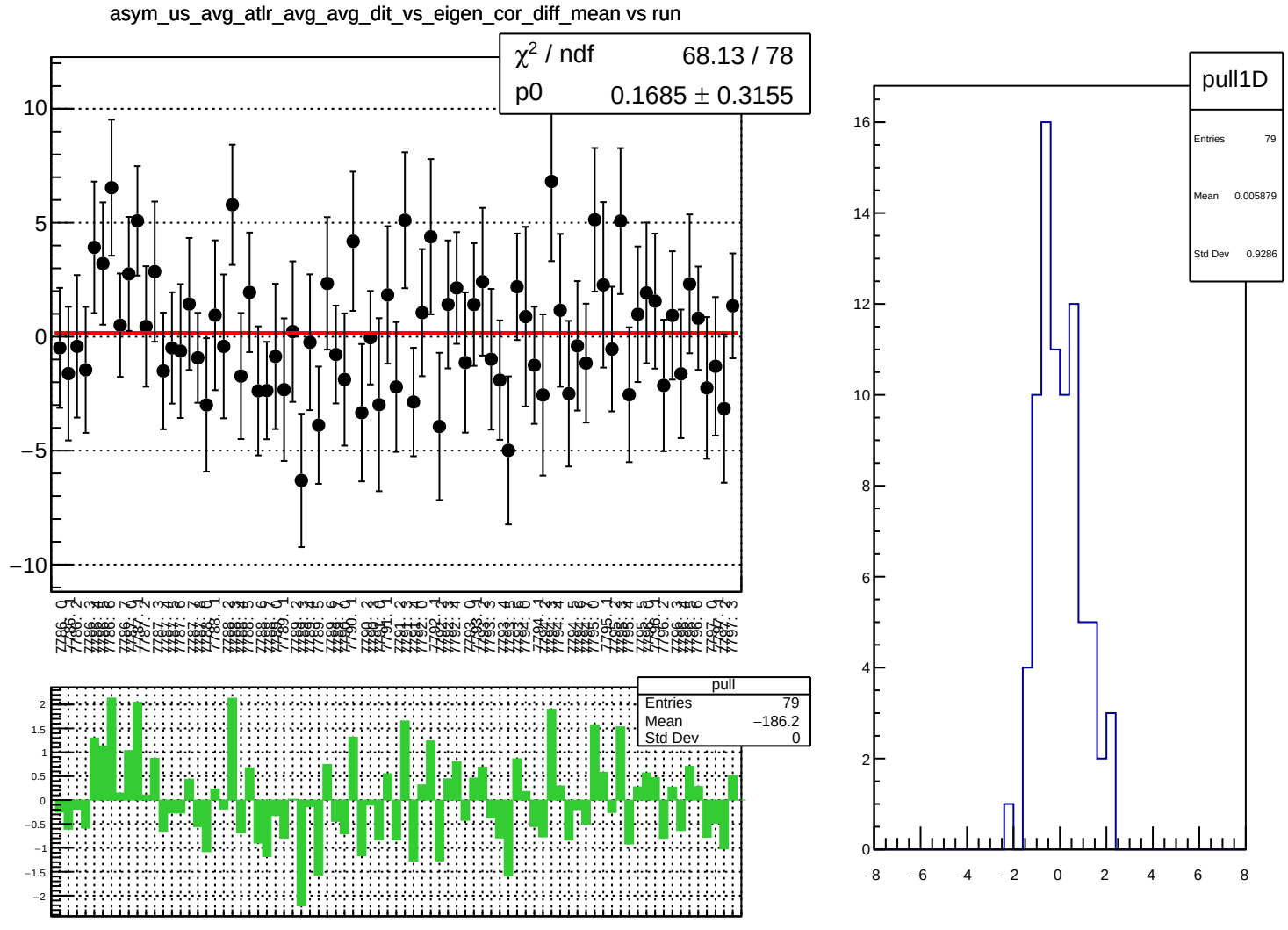

pull1D
Entries 79
Mean −0.04451
Std Dev 0.9322
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

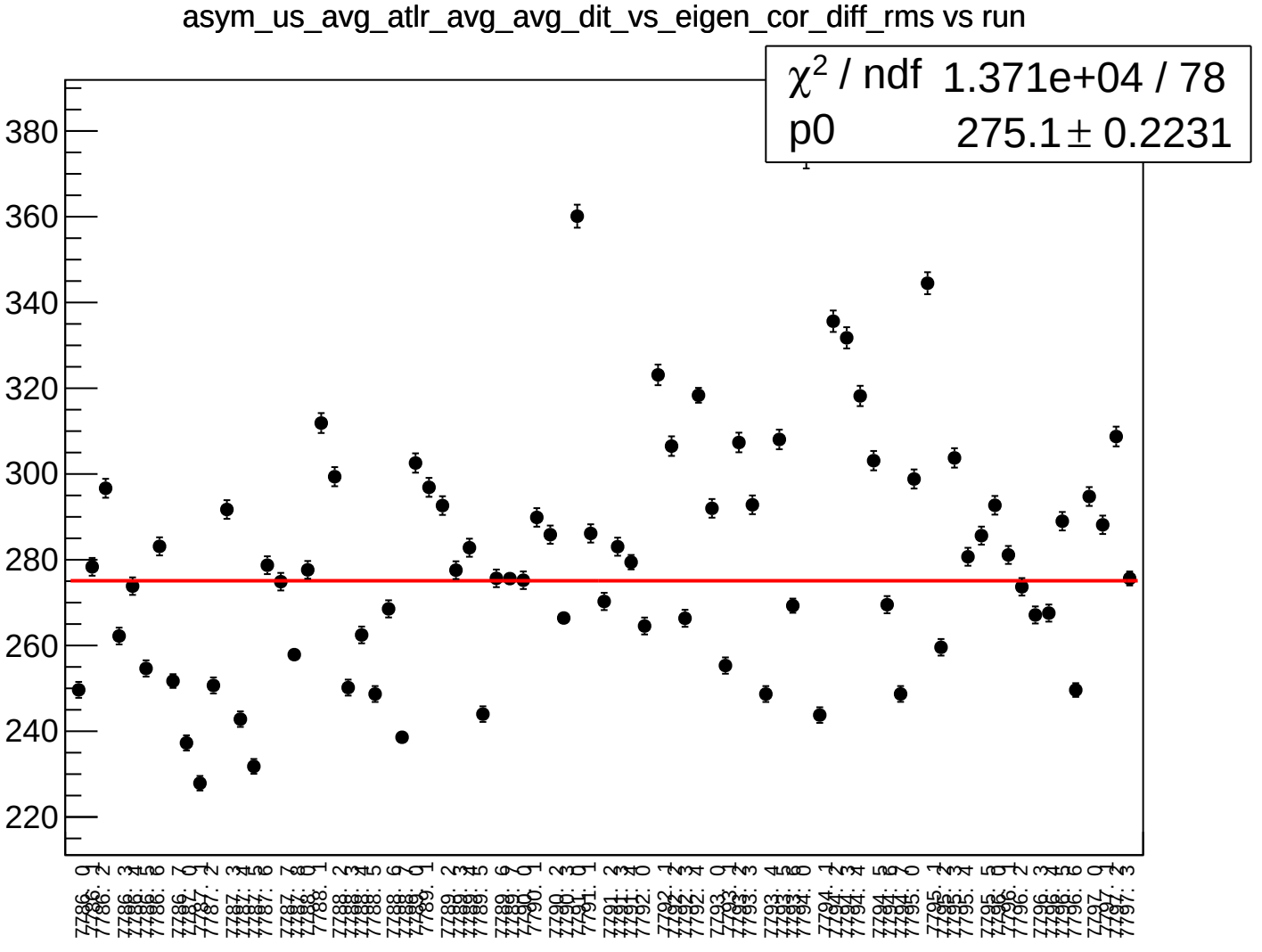

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.721e+05 / 78
p0 4.013e−10 ± 5.354e−13
1
0.8
0.6
0.4
0.2
0

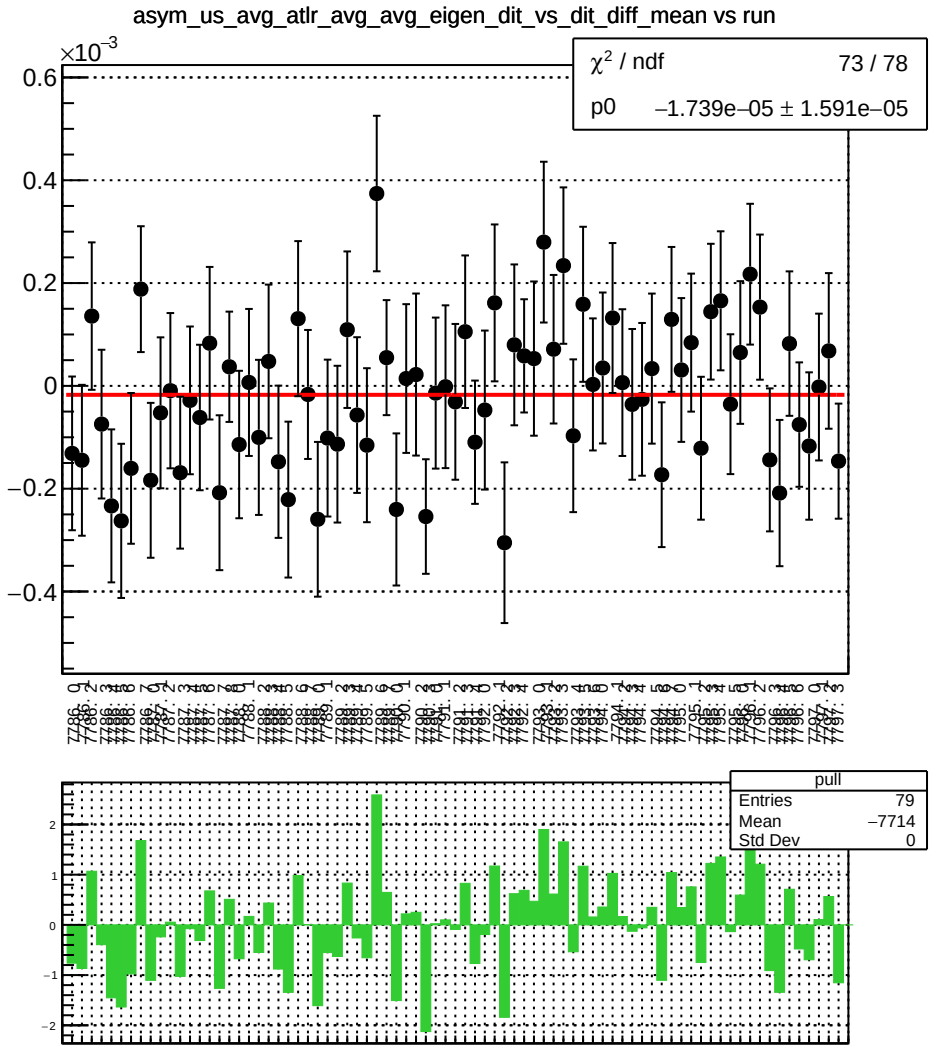

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.13 / 78
p0 0.1685 ± 0.3155
pull
Entries 79
Mean −186.2
Std Dev 0

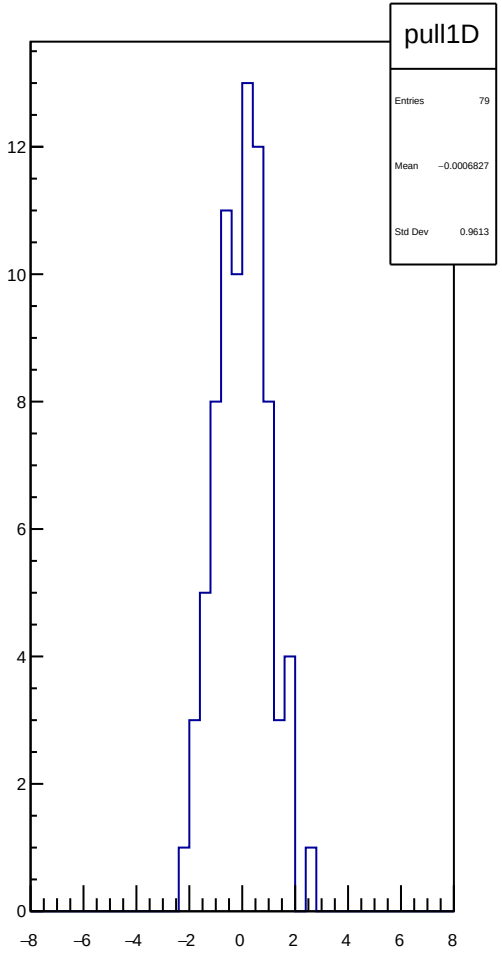

pull1D
Entries 79
Mean 0.005879
Std Dev 0.9286

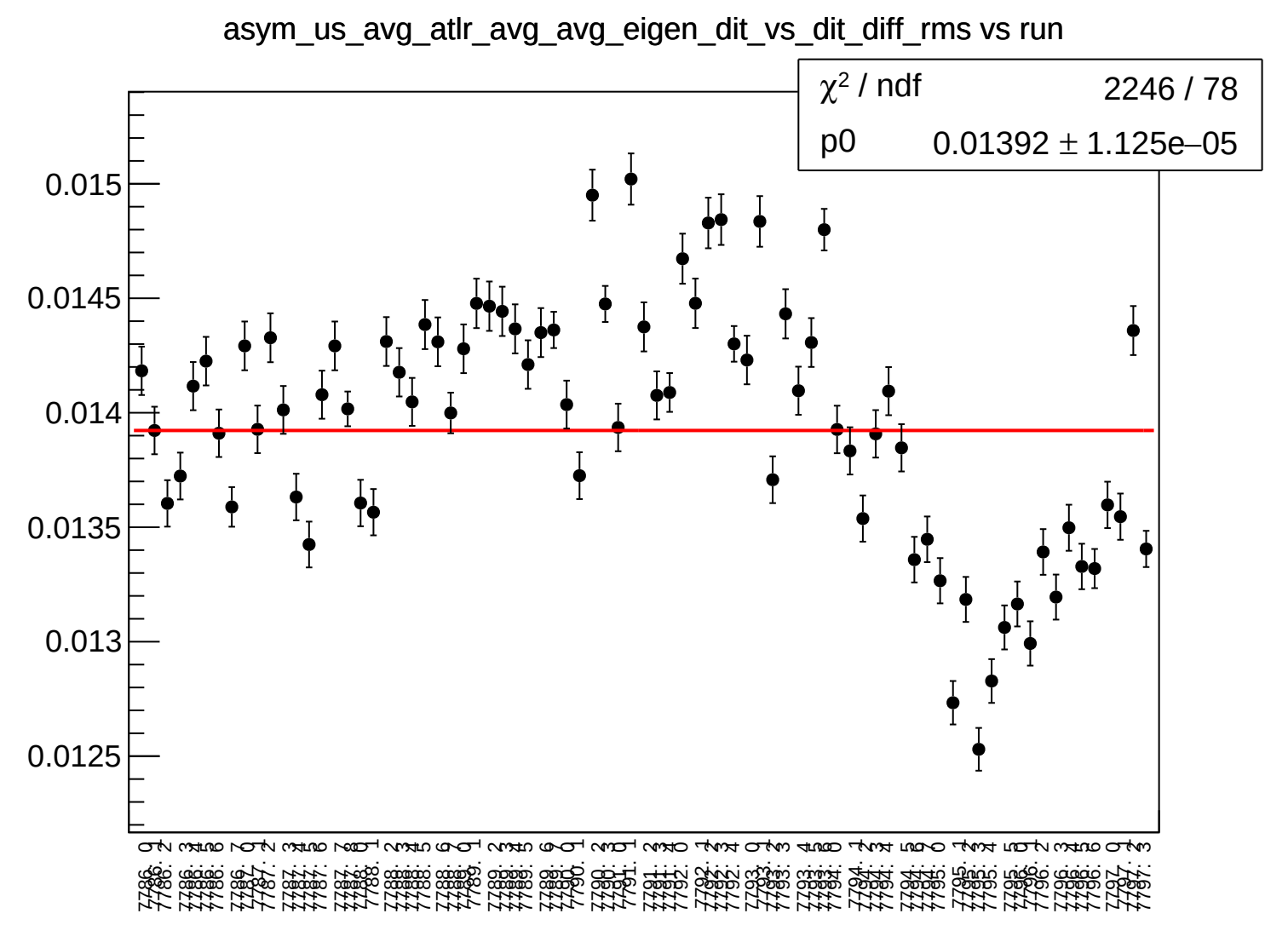

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.371e+04 / 78
p0 275.1 ± 0.2231
380
360
340
320
300
280
260
240
220

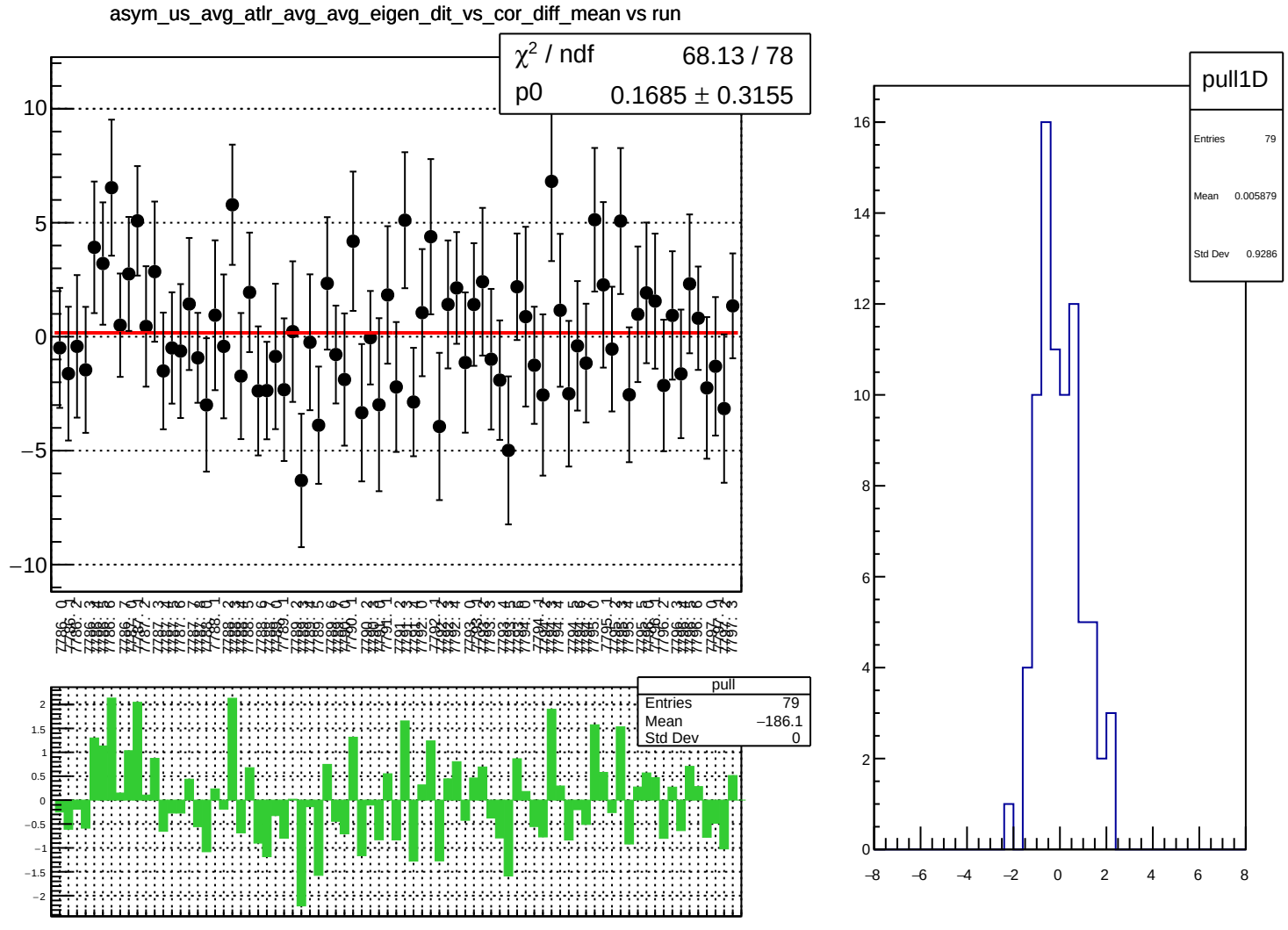

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.13 / 78
p0 0.1685 ± 0.3155
pull
Entries 79
Mean −186.2
Std Dev 0
pull1D
Entries 79
Mean 0.005879
Std Dev 0.9286

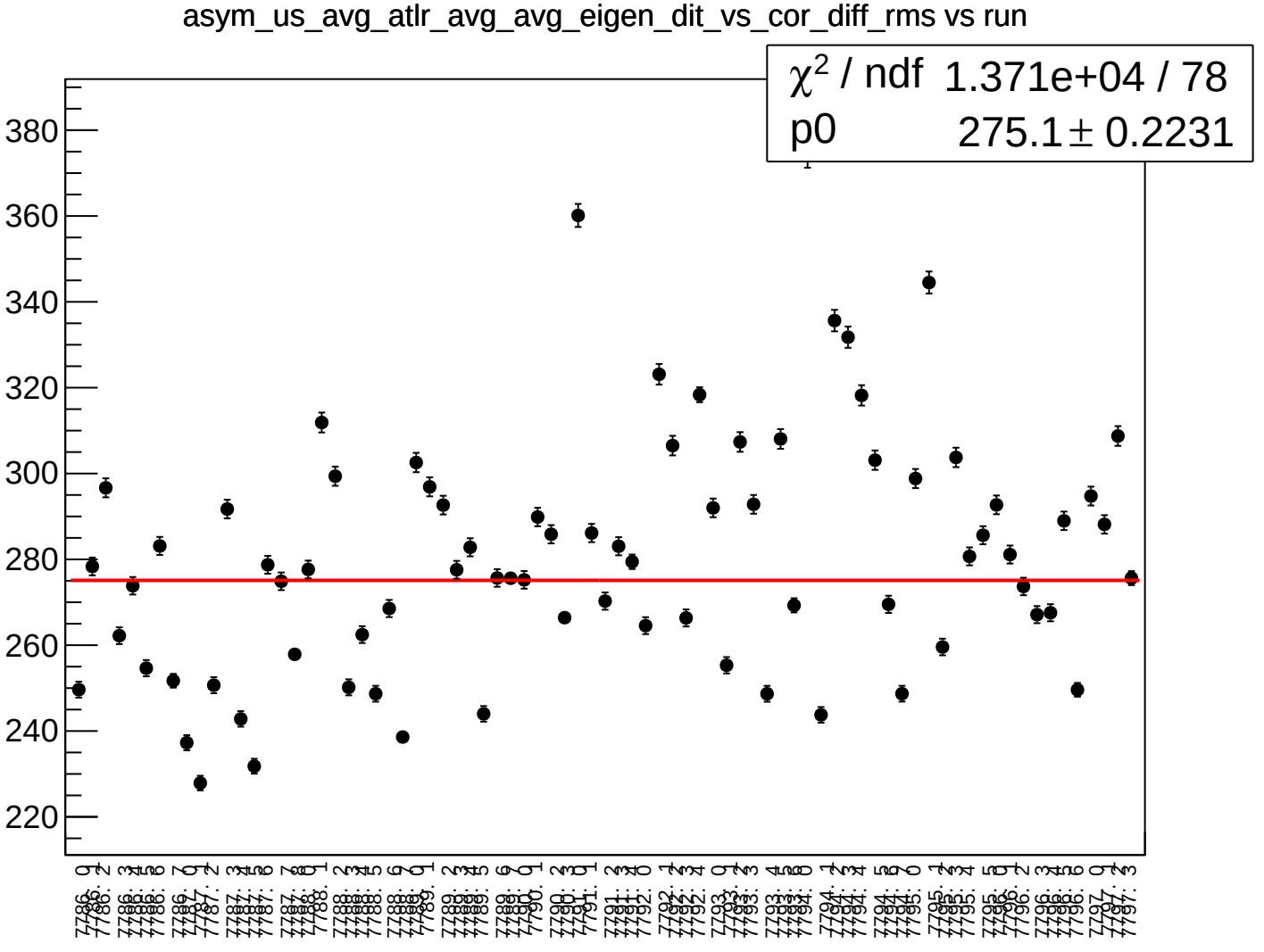

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.371e+04 / 78
p0 275.1 ± 0.2231
380
360
340
320
300
280
260
240
220

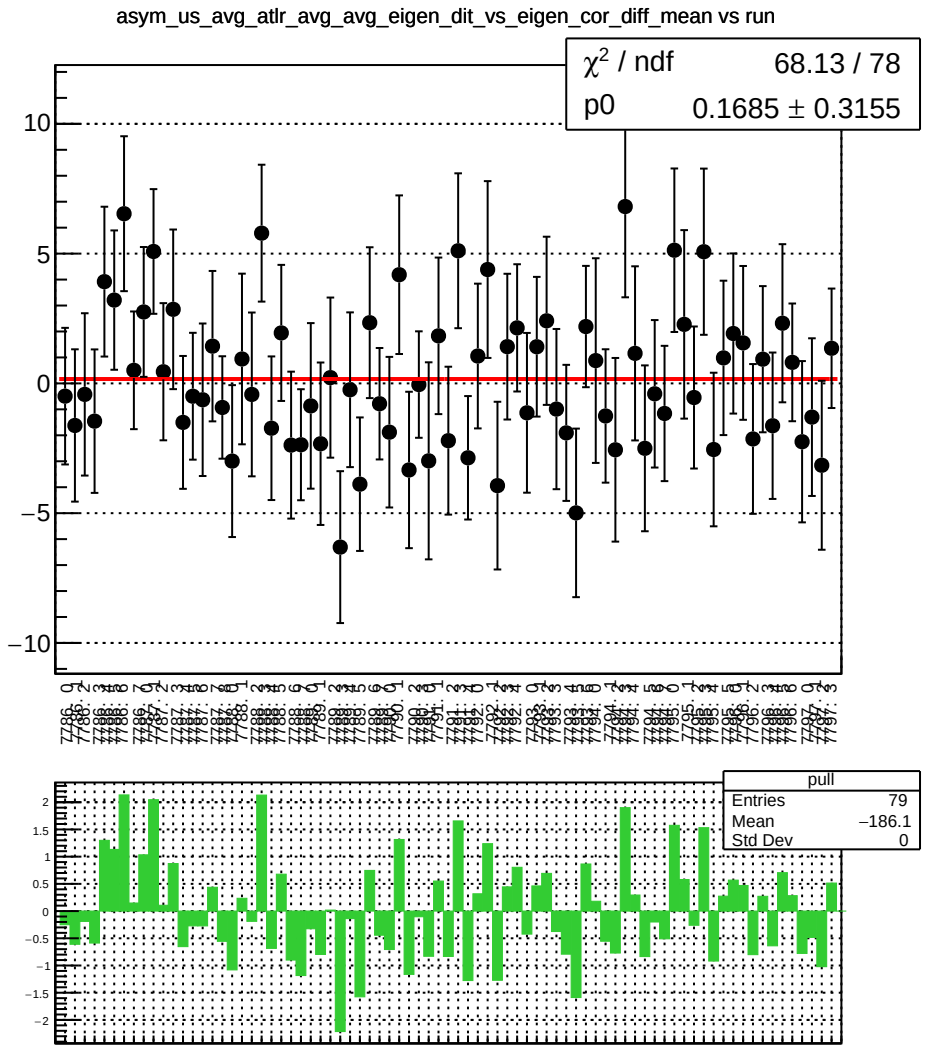

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73 / 78
p0 −1.739e−05 ± 1.591e−05
pull
Entries 79
Mean −7714
Std Dev 0

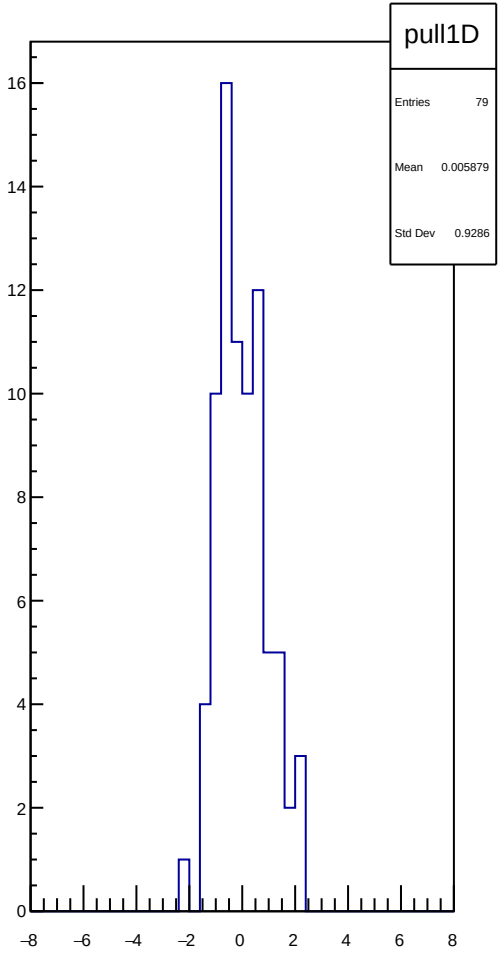

pull1D
Entries 79
Mean −0.0006827
Std Dev 0.9613

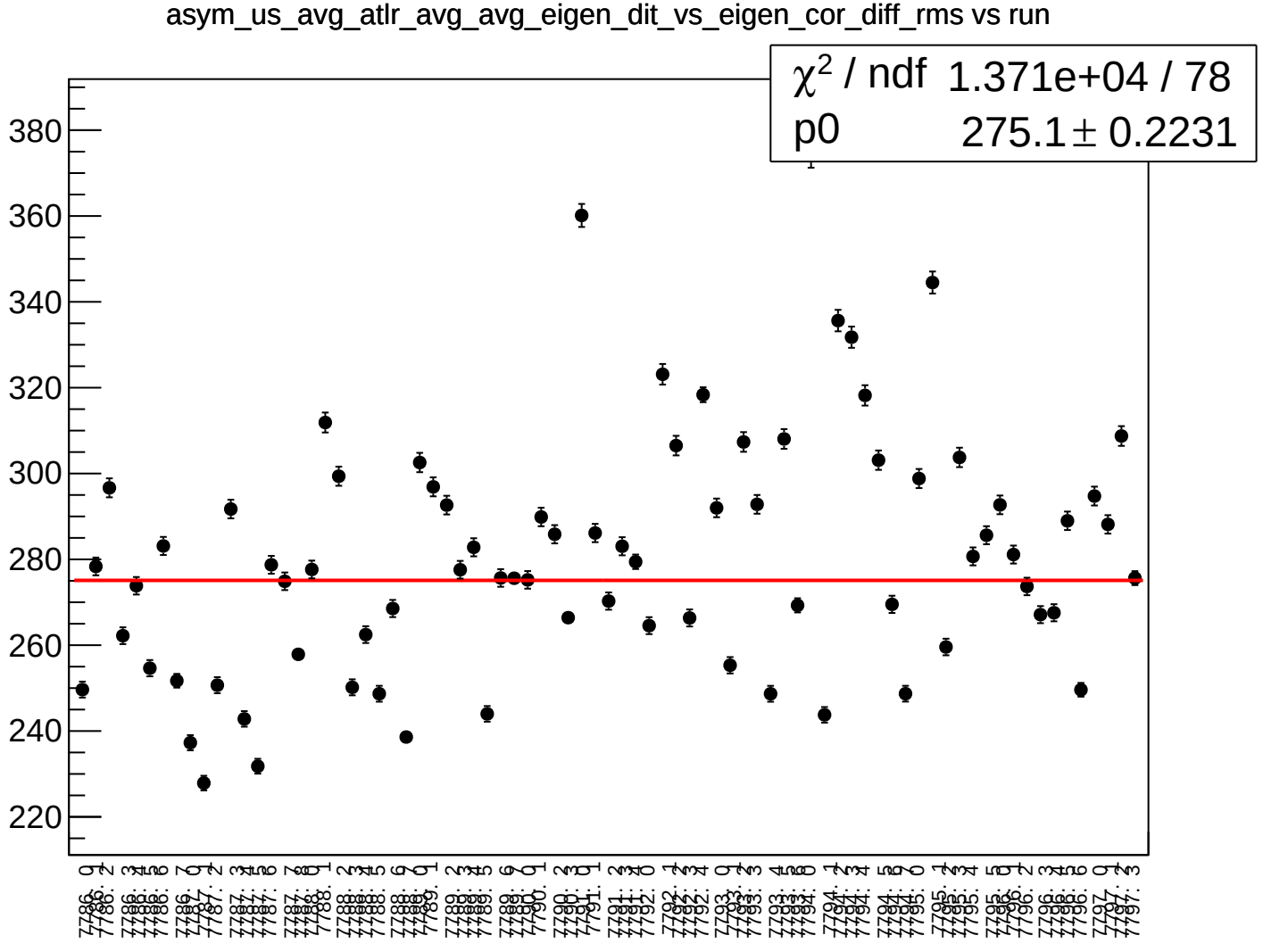

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2246 / 78
p0 0.01392 ± 1.125e−05
0.015
0.0145
0.014
0.0135
0.013
0.0125

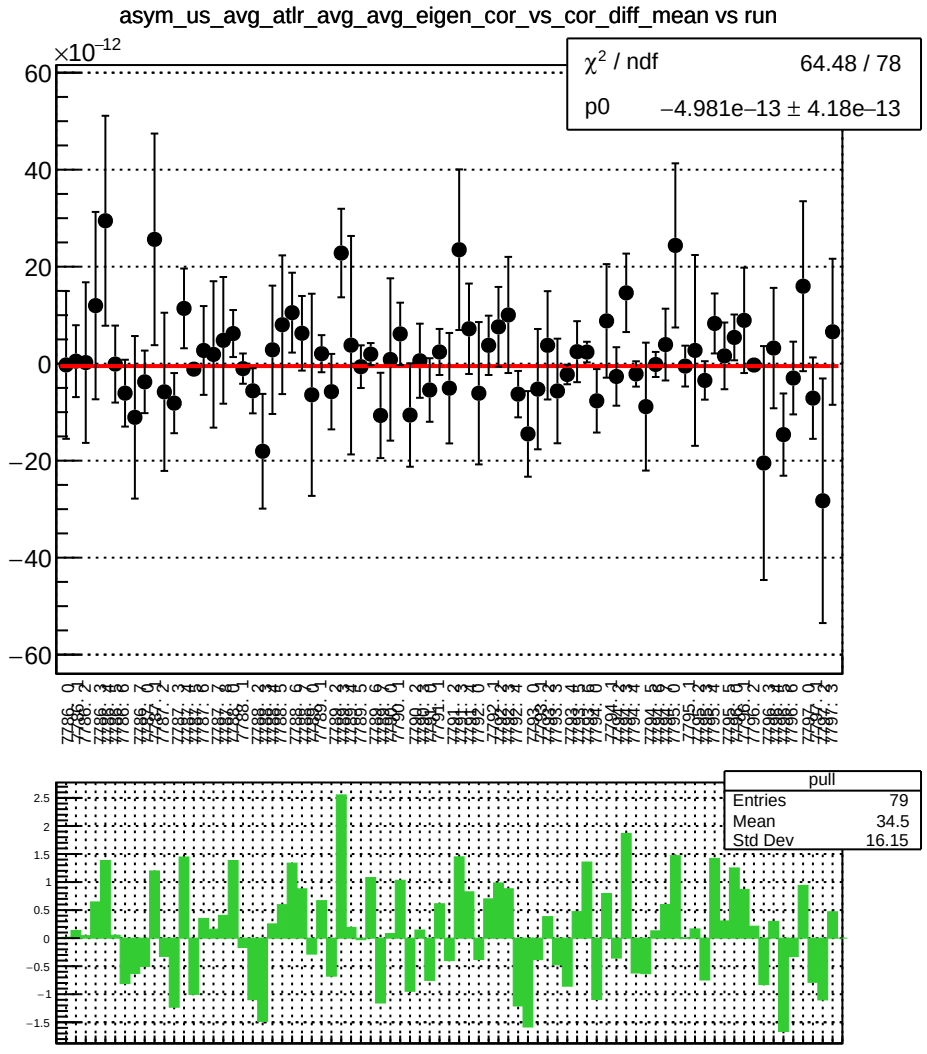

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.13 / 78
p0 0.1685 ± 0.3155
pull
Entries 79
Mean −186.1
Std Dev 0
pull1D
Entries 79
Mean 0.005879
Std Dev 0.9286

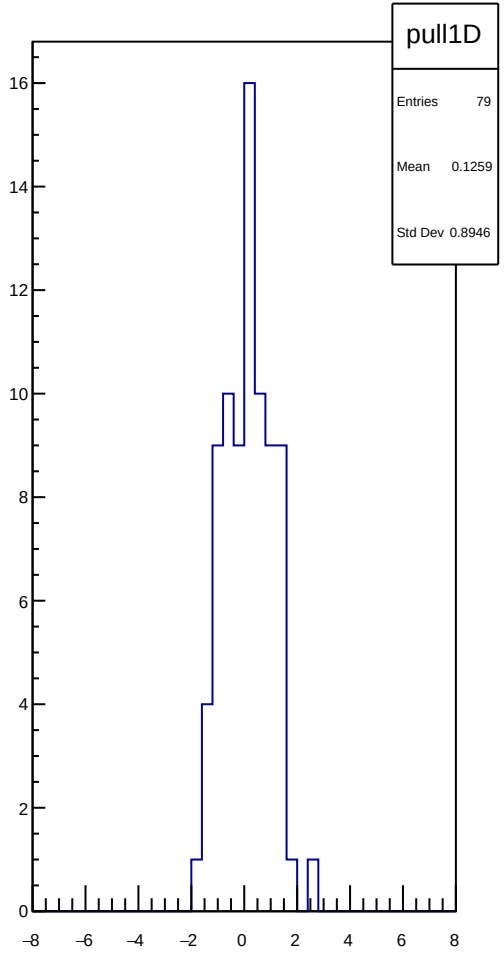

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.371e+04 / 78
p0 275.1 ± 0.2231
380
360
340
320
300
280
260
240
220

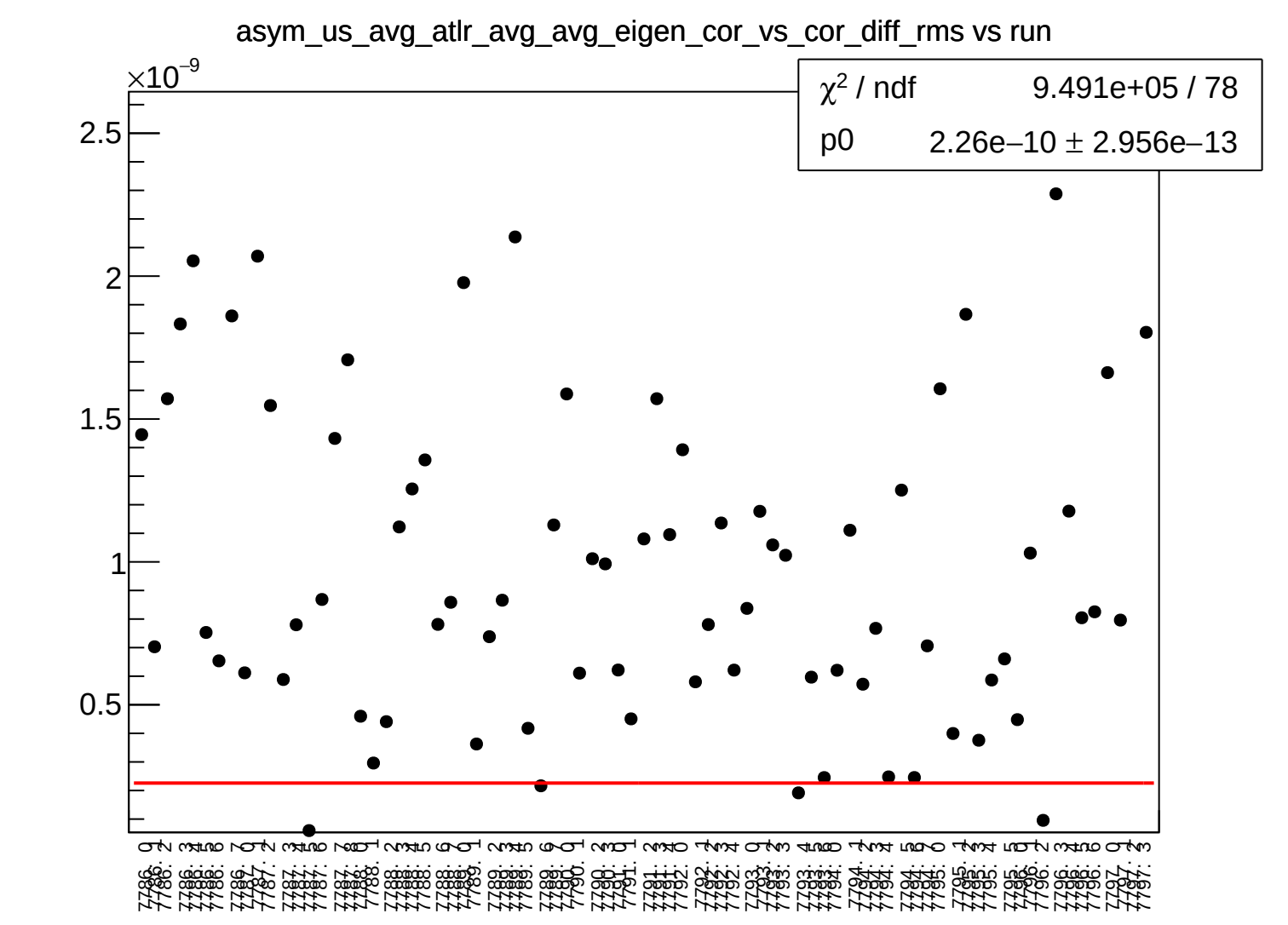

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.13 / 78
p0 0.1685 ± 0.3155
pull
Entries 79
Mean −186.1
Std Dev 0

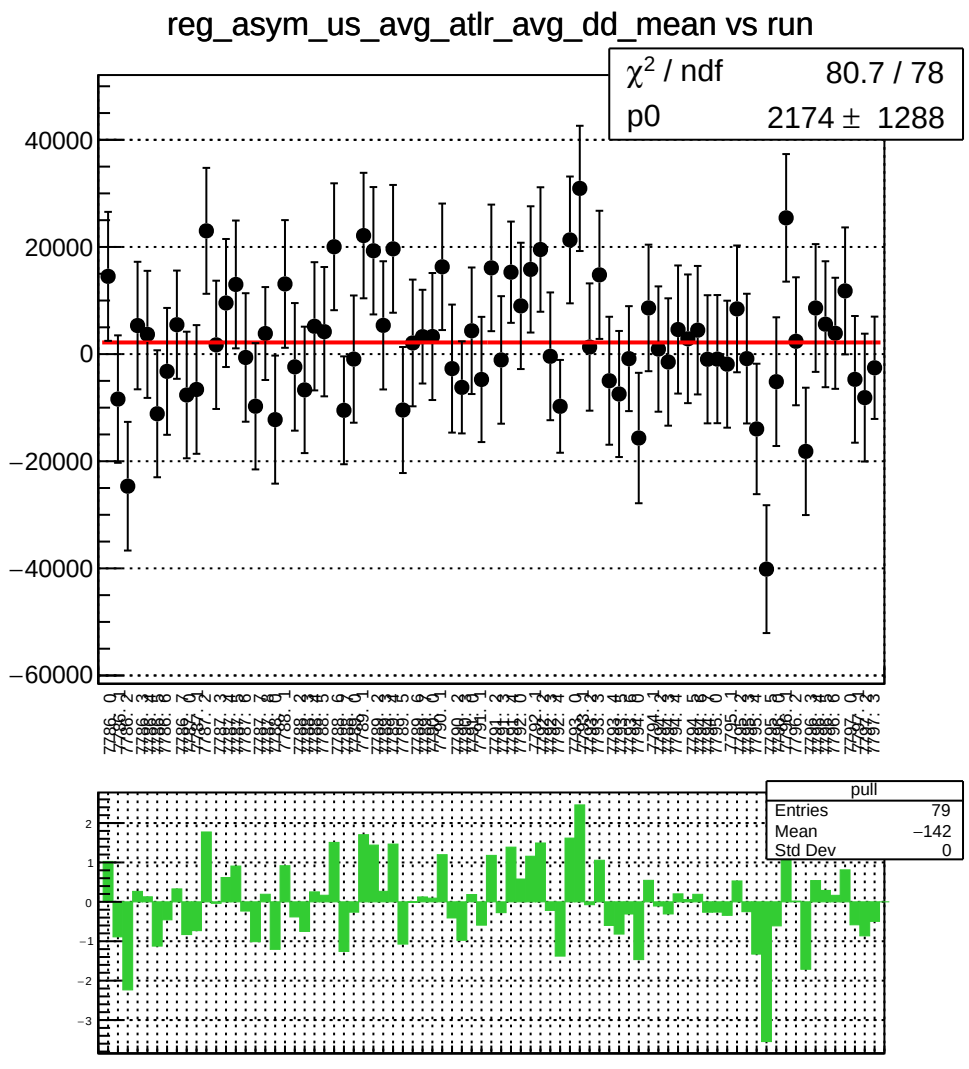

pull1D
Entries 79
Mean 0.005879
Std Dev 0.9286

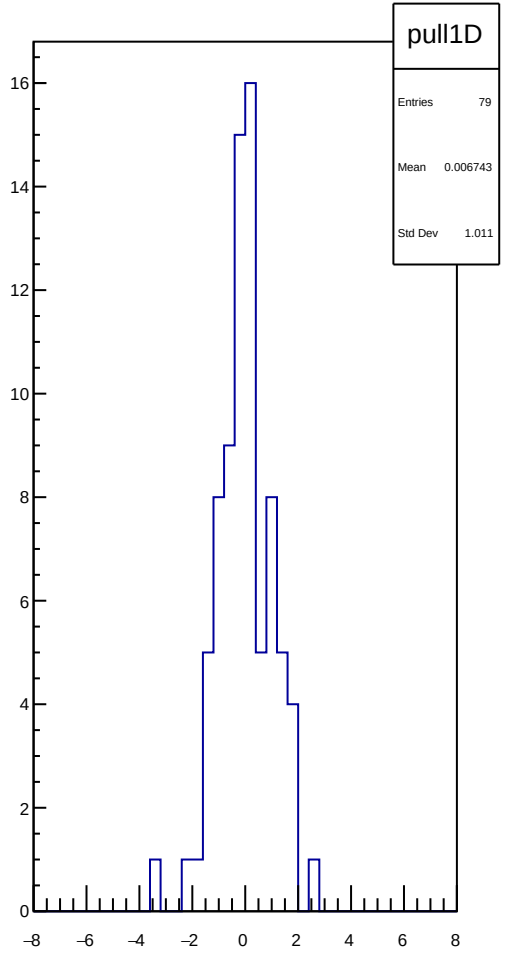

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.371e+04 / 78
p0 275.1 ± 0.2231
380
360
340
320
300
280
260
240
220

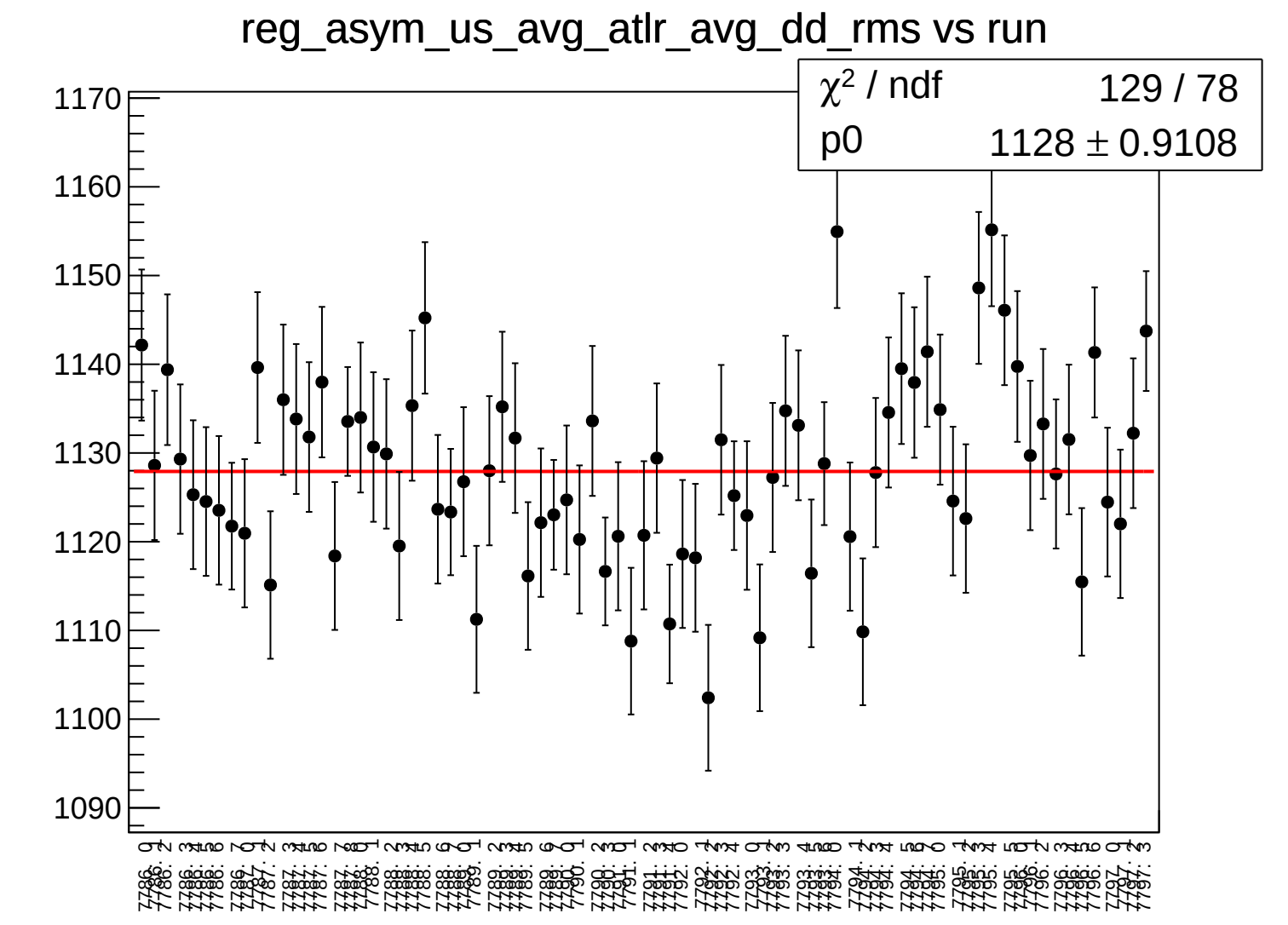

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.48 / 78
p0 −4.981e−13 ± 4.18e−13
pull
Entries 79
Mean 34.5
Std Dev 16.15

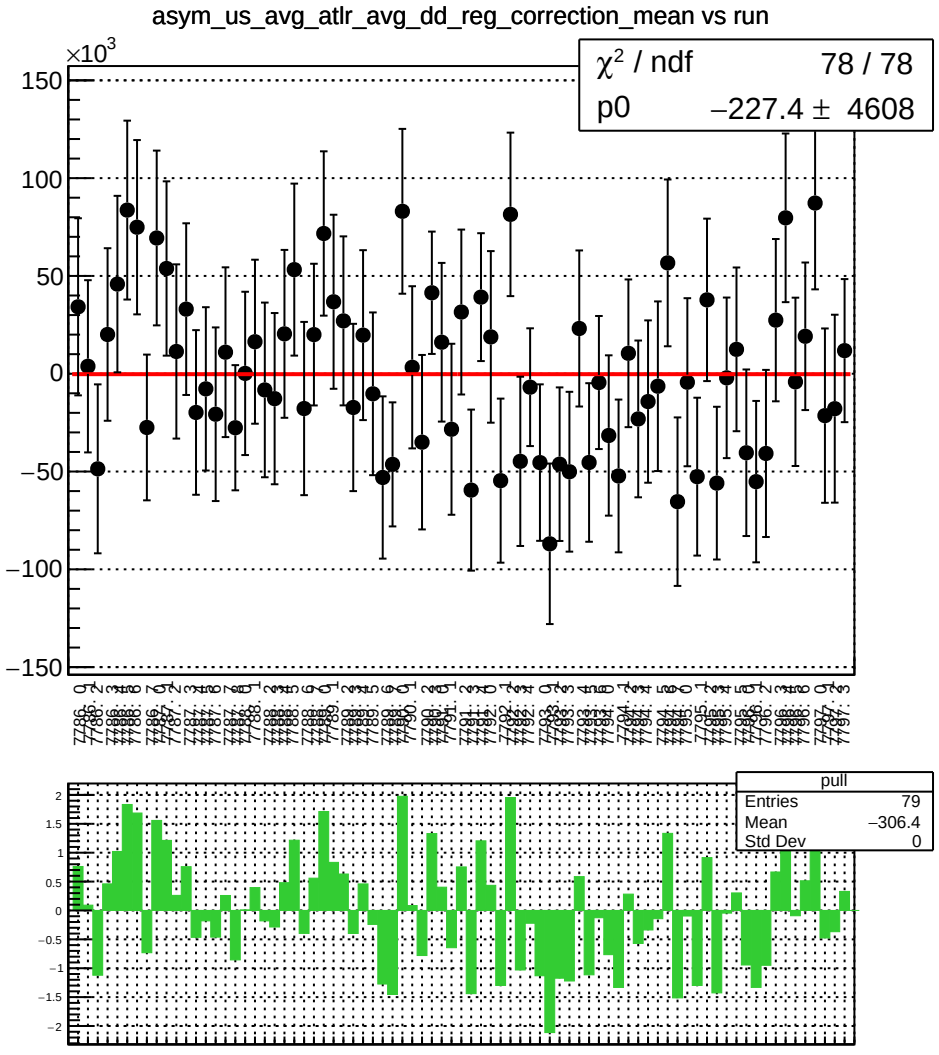

pull1D
Entries 79
Mean 0.1259
Std Dev 0.8946

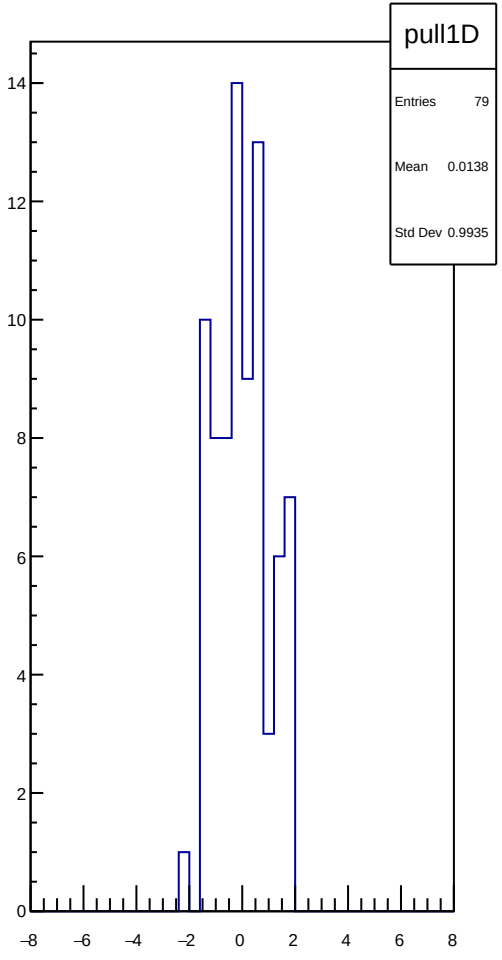

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.491e+05 / 78
p0 2.26e−10 ± 2.956e−13
2.5
2
1.5
1
0.5

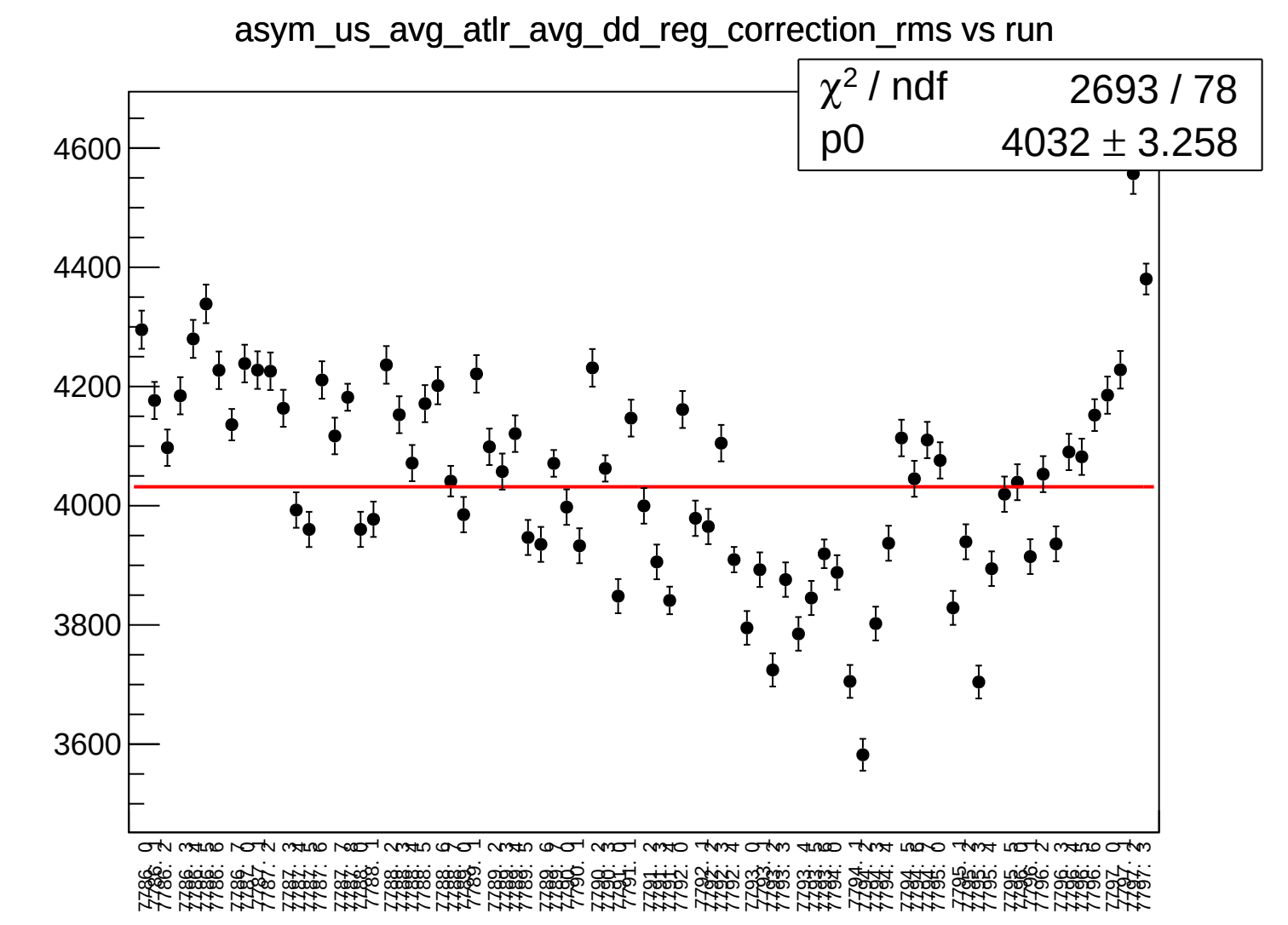

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 80.7 / 78
p0 2174 ± 1288
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −142
Std Dev 0
2
1
0
−1
−2
−3

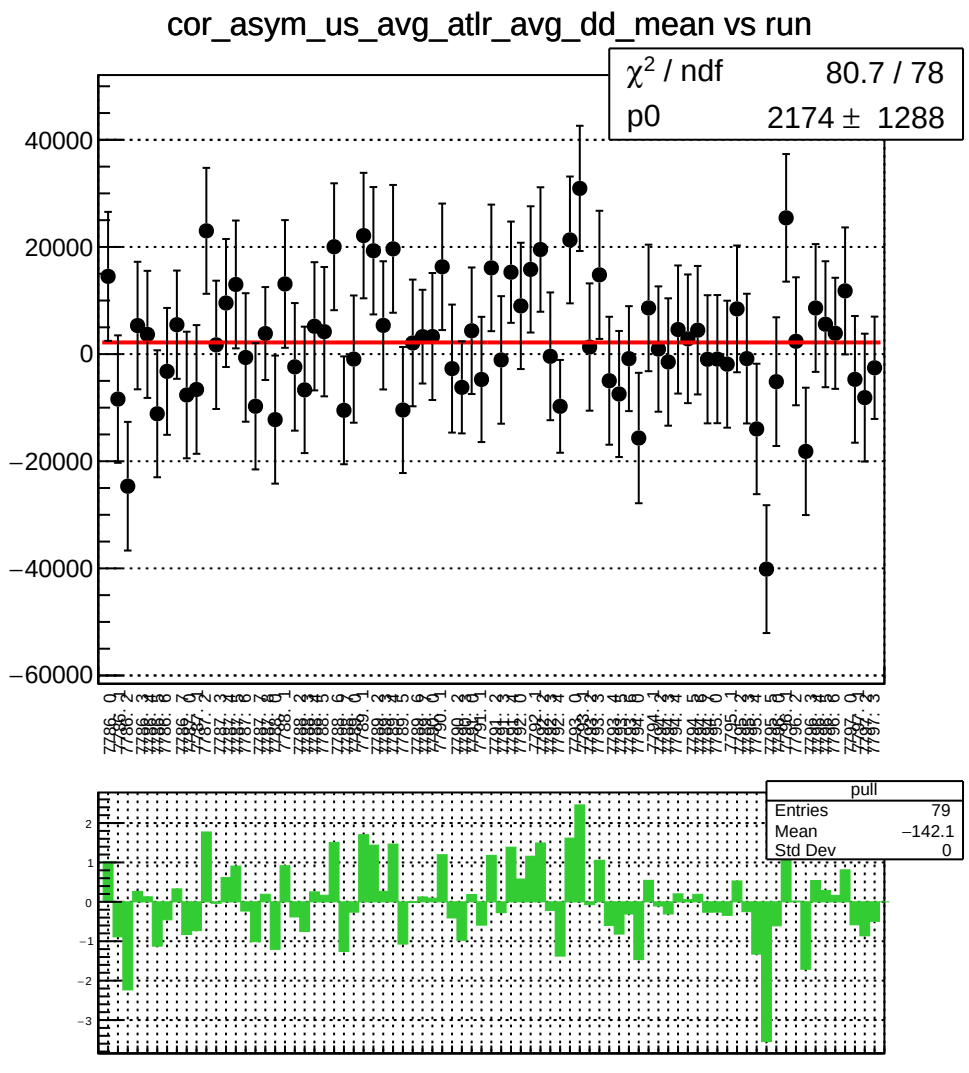

pull1D
Entries 79
Mean 0.006743
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

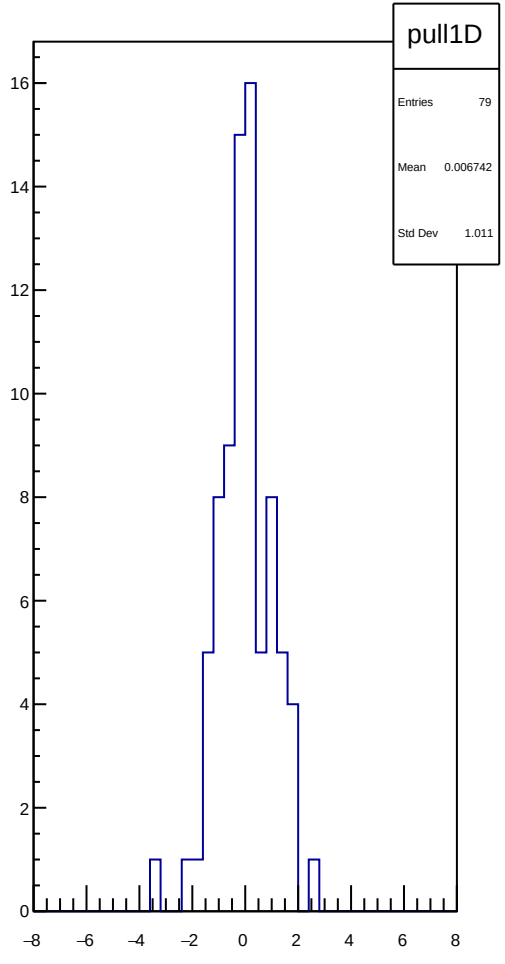

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 129 / 78
p0 1128 ± 0.9108
1170
1160
1150
1140
1130
1120
1110
1100
1090

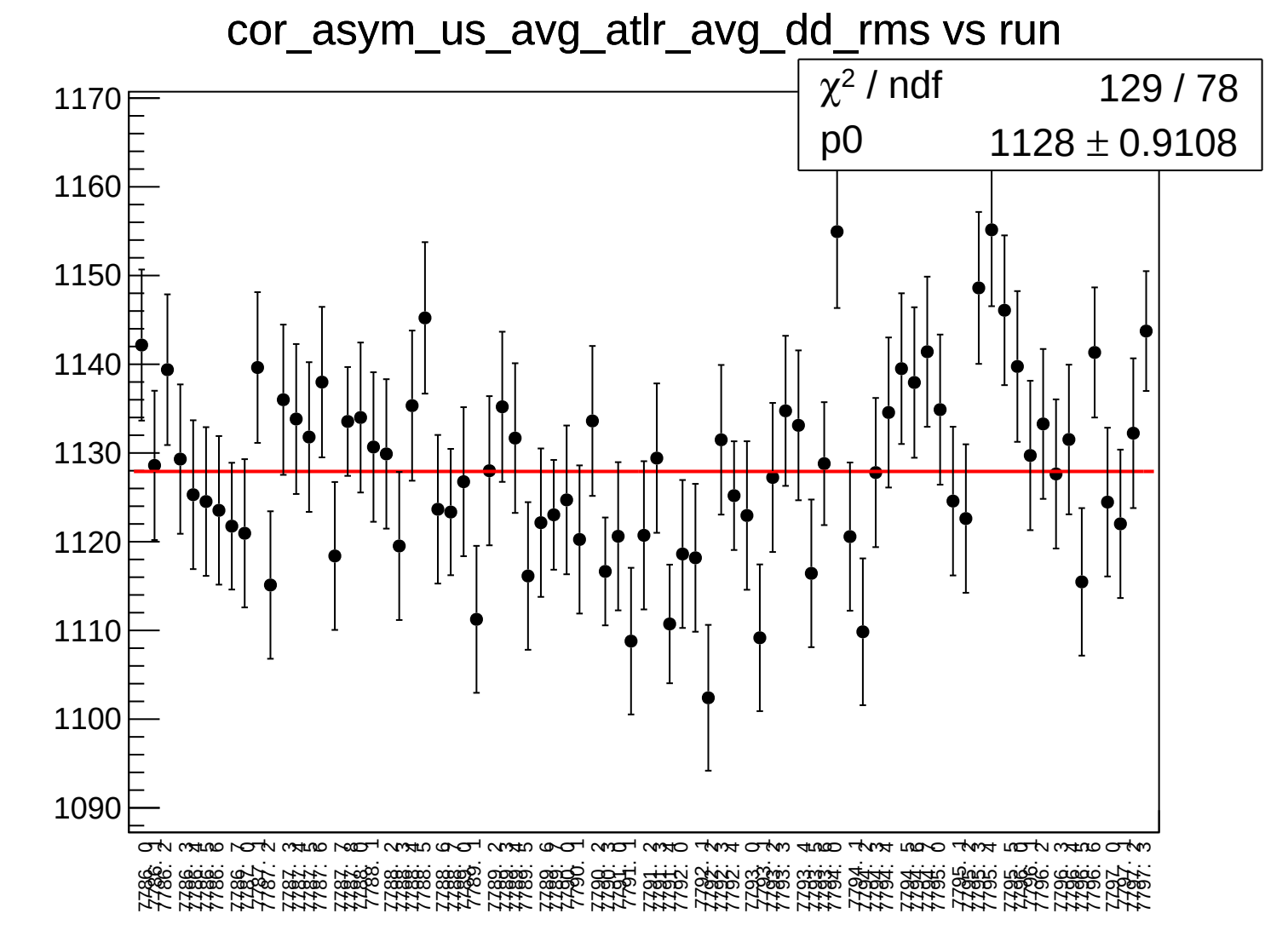

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78 / 78
p0 −227.4 ± 4608
pull
Entries 79
Mean −306.4
Std Dev 0

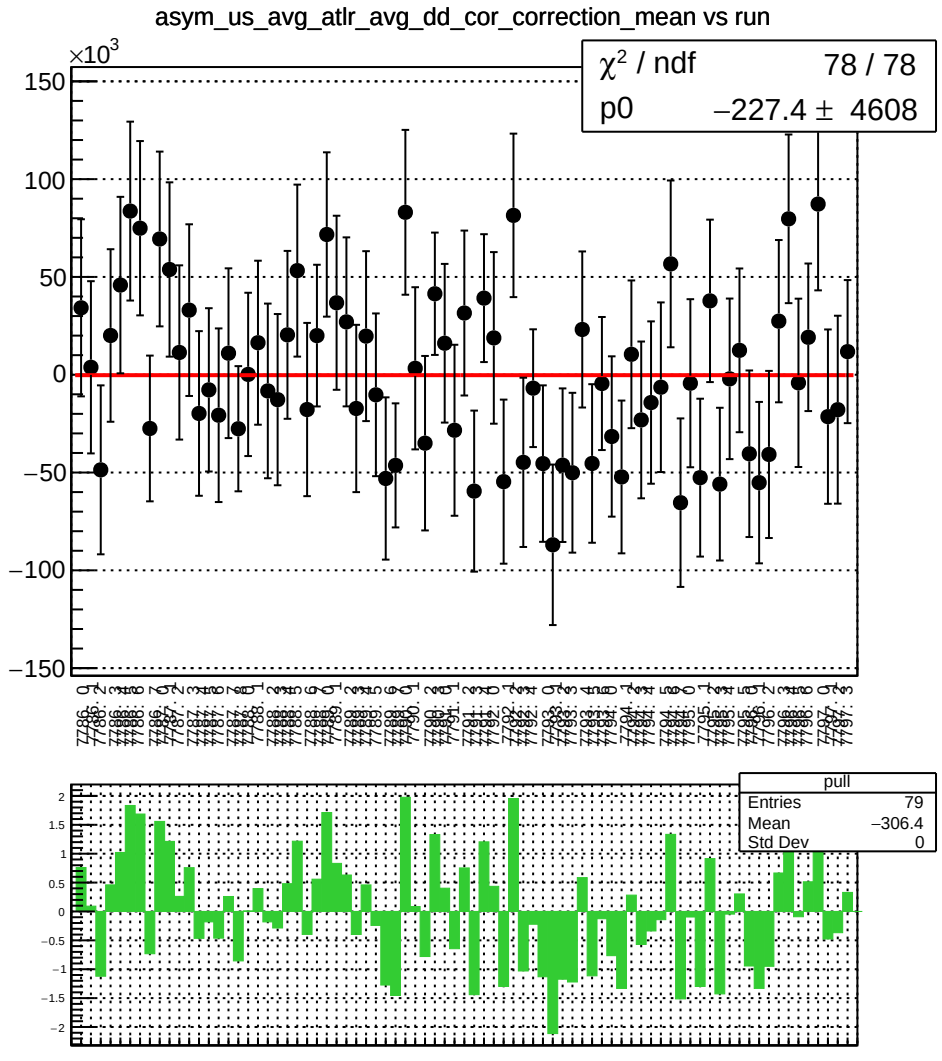

pull1D
Entries 79
Mean 0.0138
Std Dev 0.9935

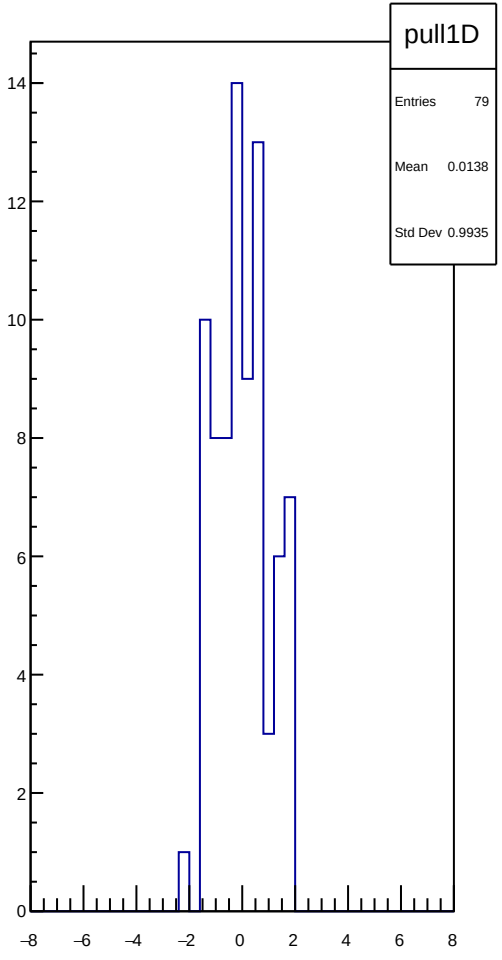

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 2693 / 78
p0 4032 ± 3.258
4600
4400
4200
4000
3800
3600

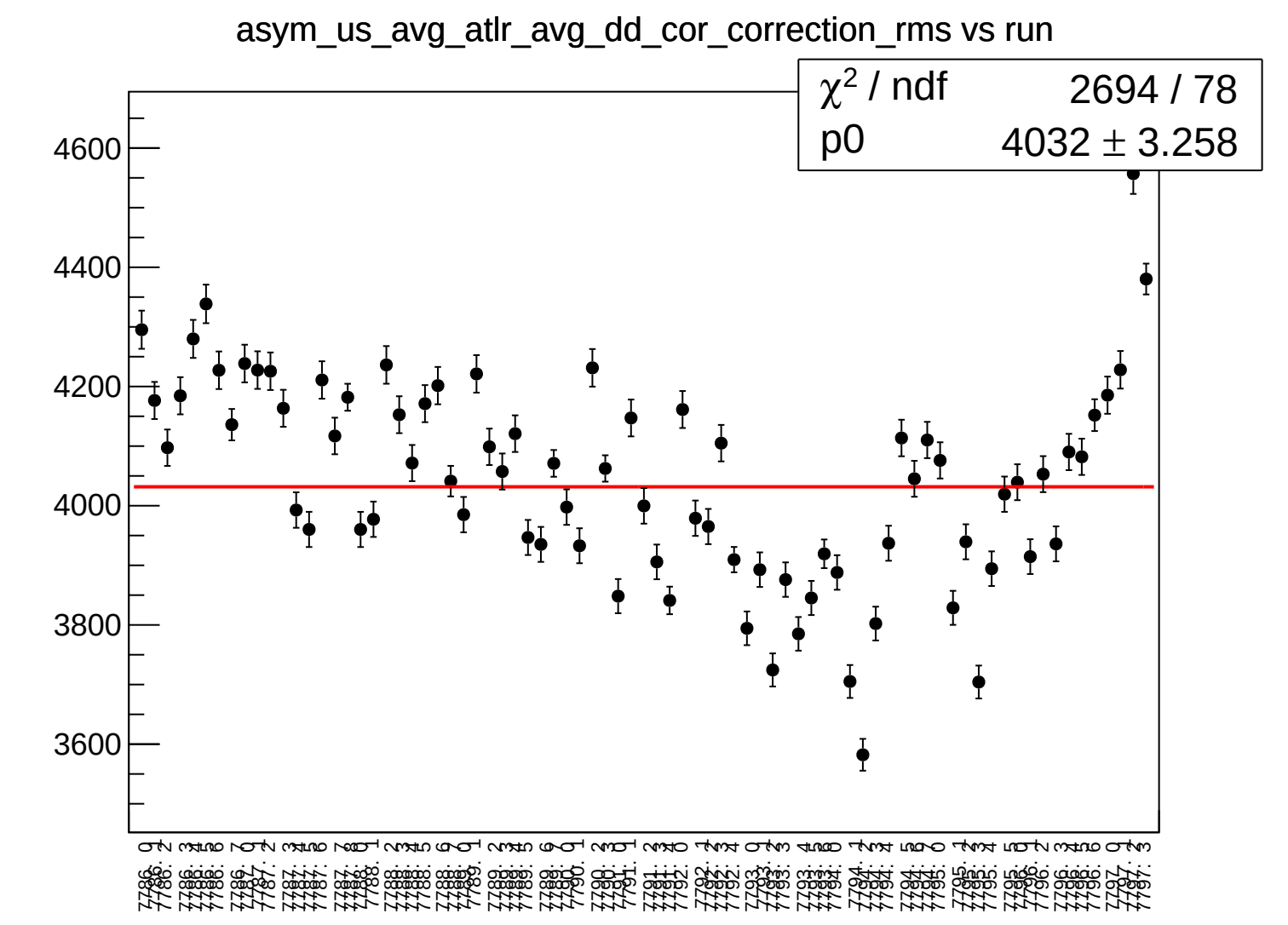

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 80.7 / 78
p0 2174 ± 1288
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −142.1
Std Dev 0
2
1
0
−1
−2
−3

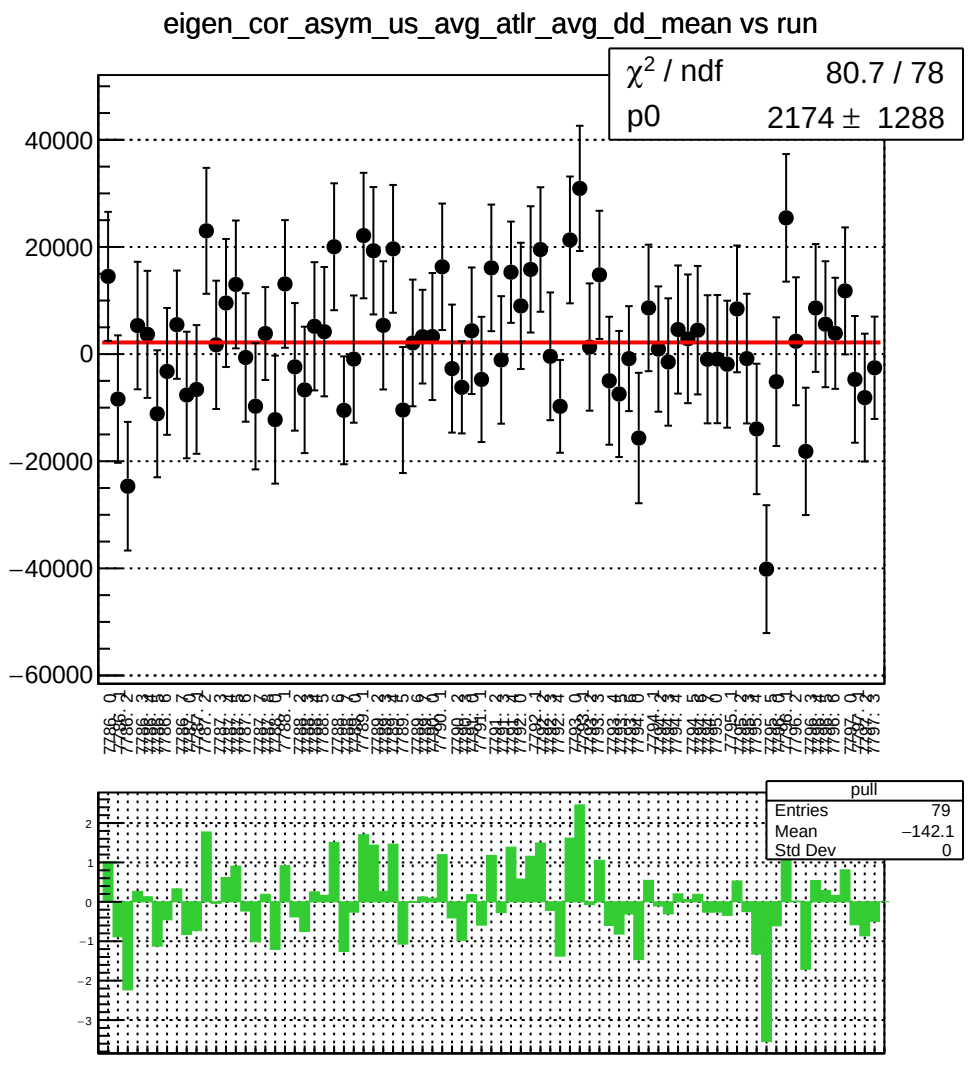

pull1D
Entries 79
Mean 0.006742
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

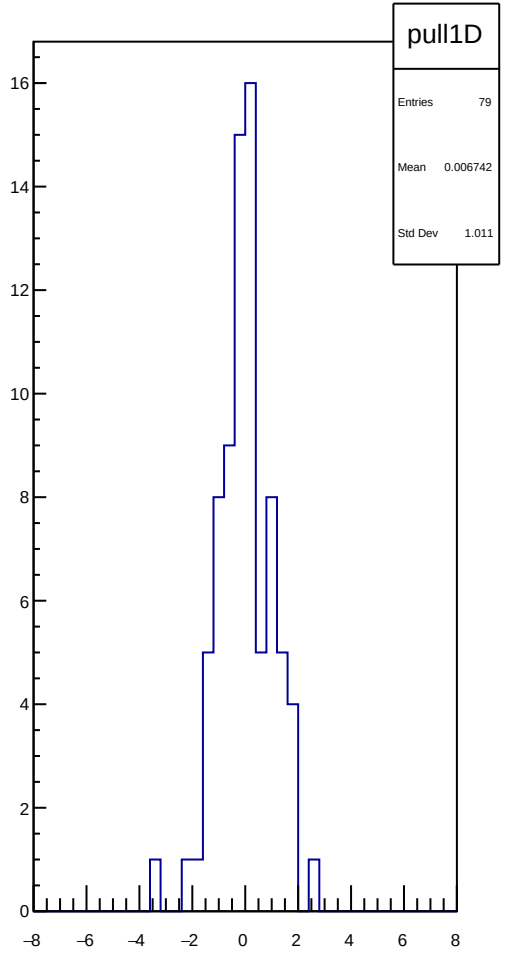

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 129 / 78
p0 1128 ± 0.9108
1170
1160
1150
1140
1130
1120
1110
1100
1090


asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78 / 78
p0 −227.4 ± 4608
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −306.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 79
Mean 0.0138
Std Dev 0.9935
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 2694 / 78
p0 4032 ± 3.258
4600
4400
4200
4000
3800
3600


eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 80.7 / 78
p0 2174 ± 1288
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −142.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 79
Mean 0.006742
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
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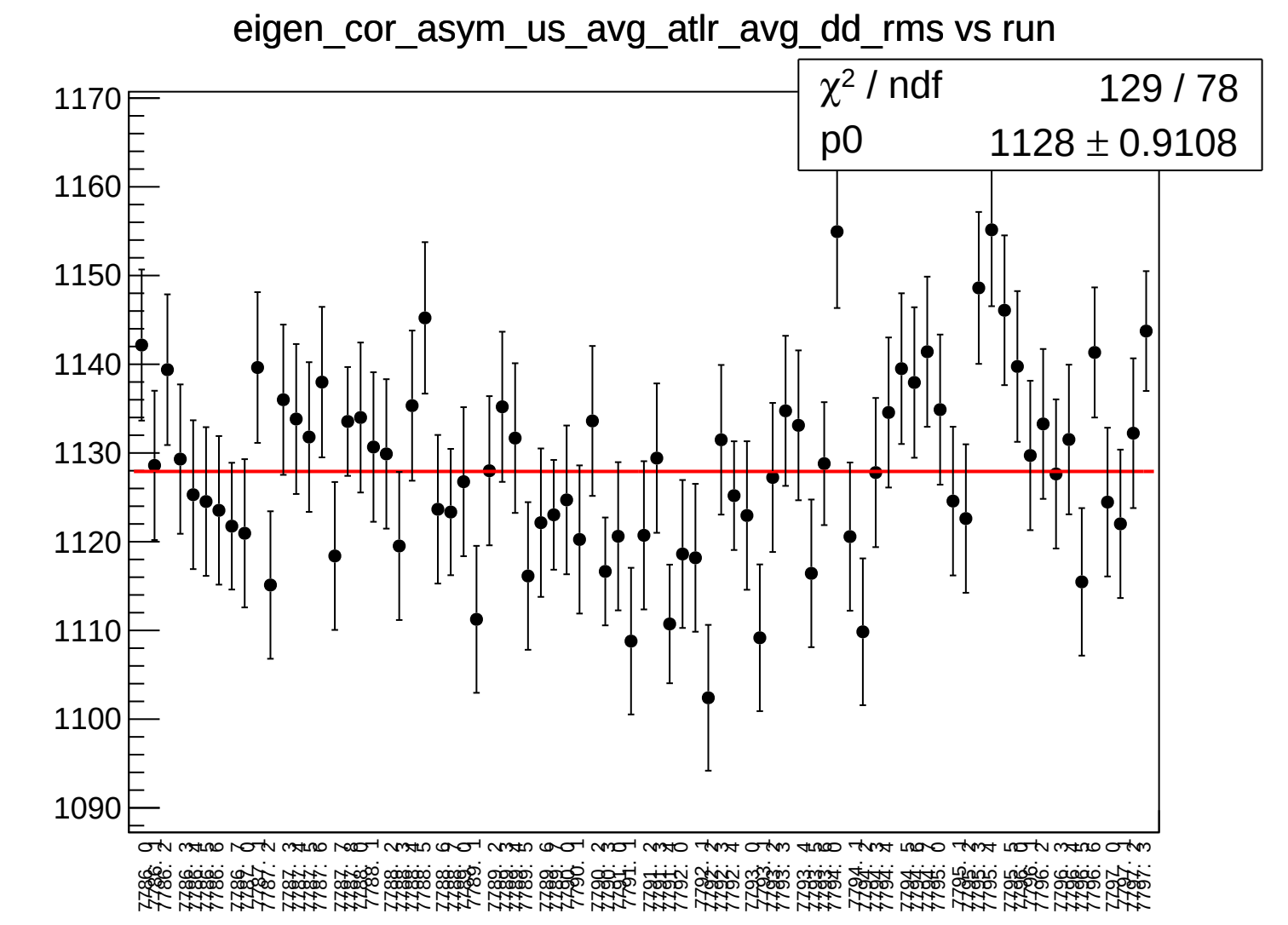
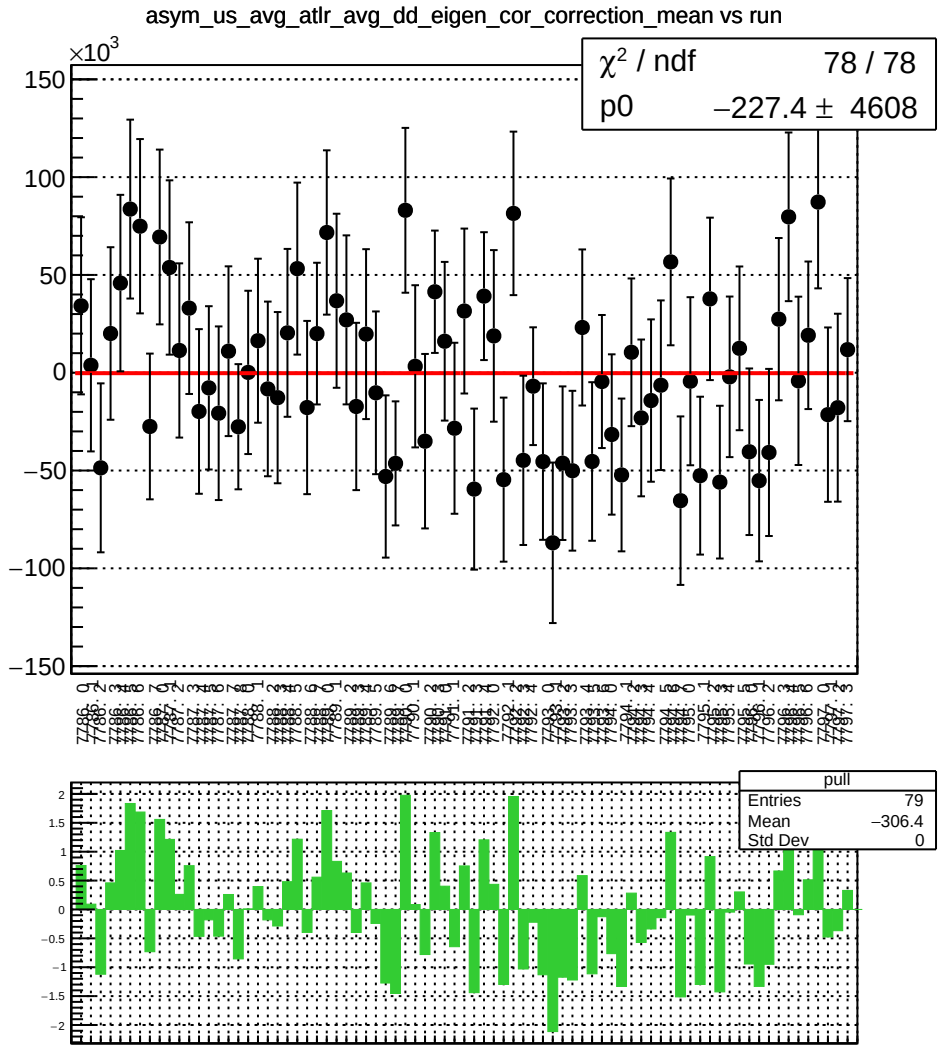
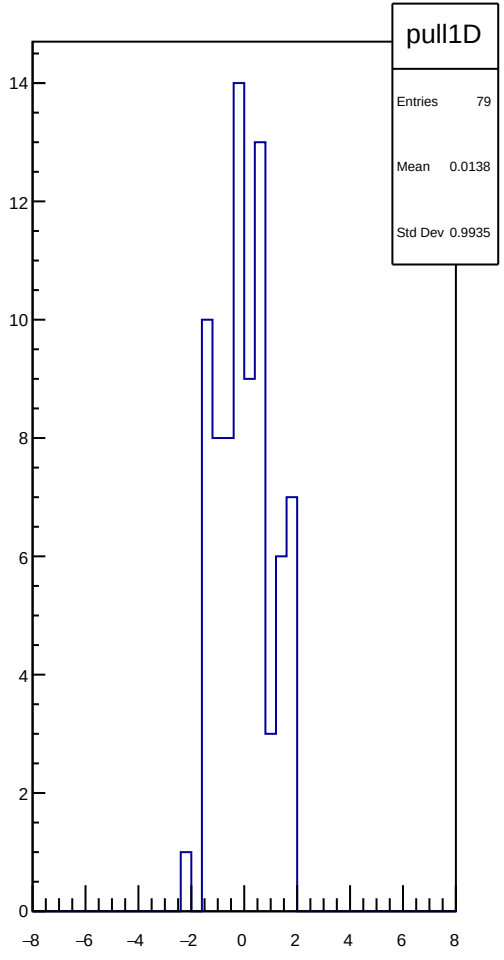
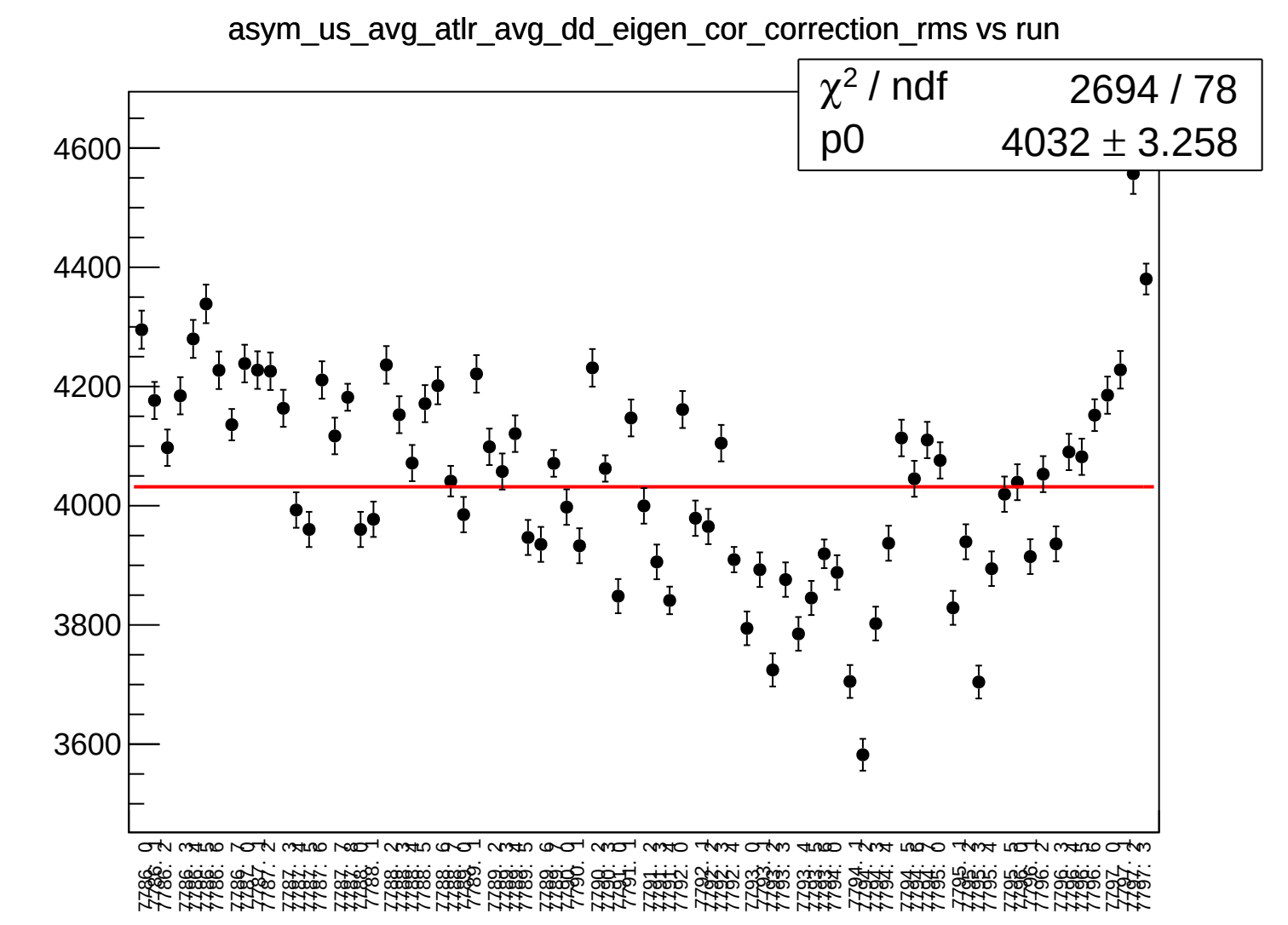
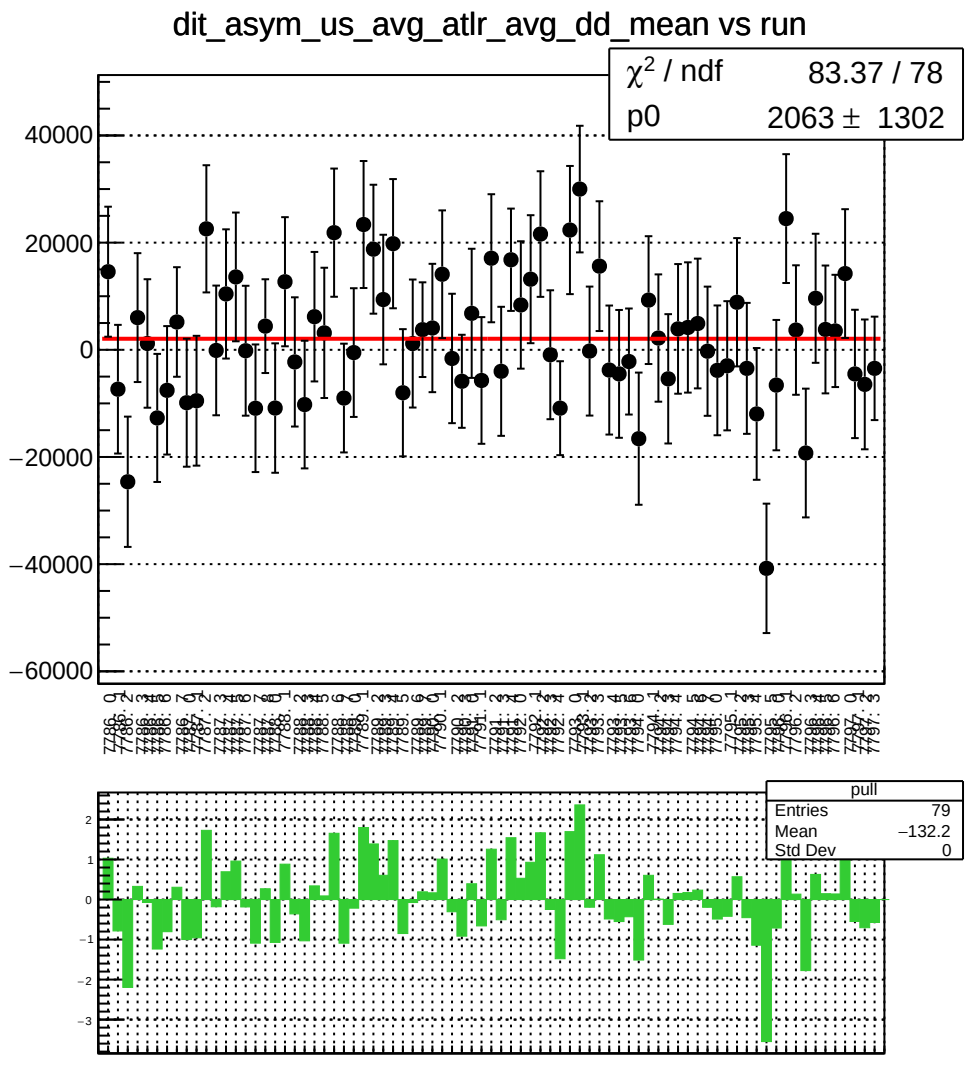
2
4
6
8

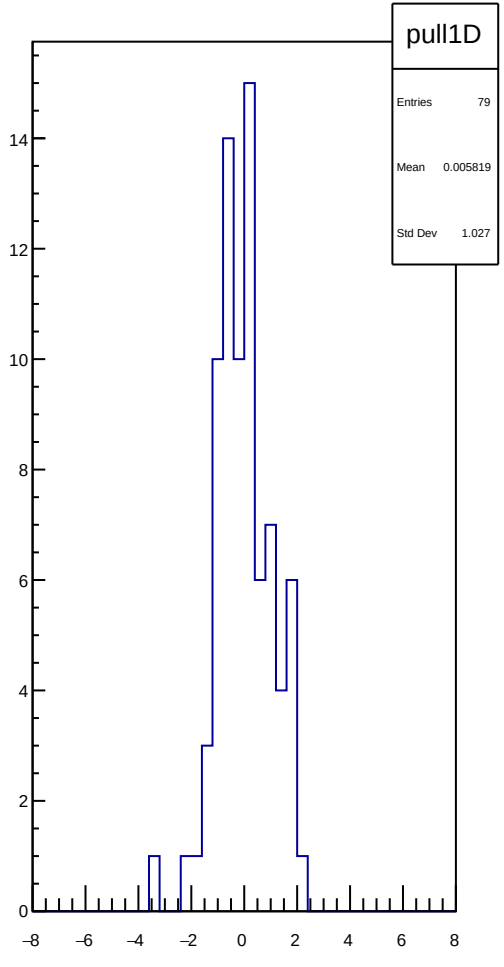

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 129 / 78
p0 1128 ± 0.9108
1170
1160
1150
1140
1130
1120
1110
1100
1090

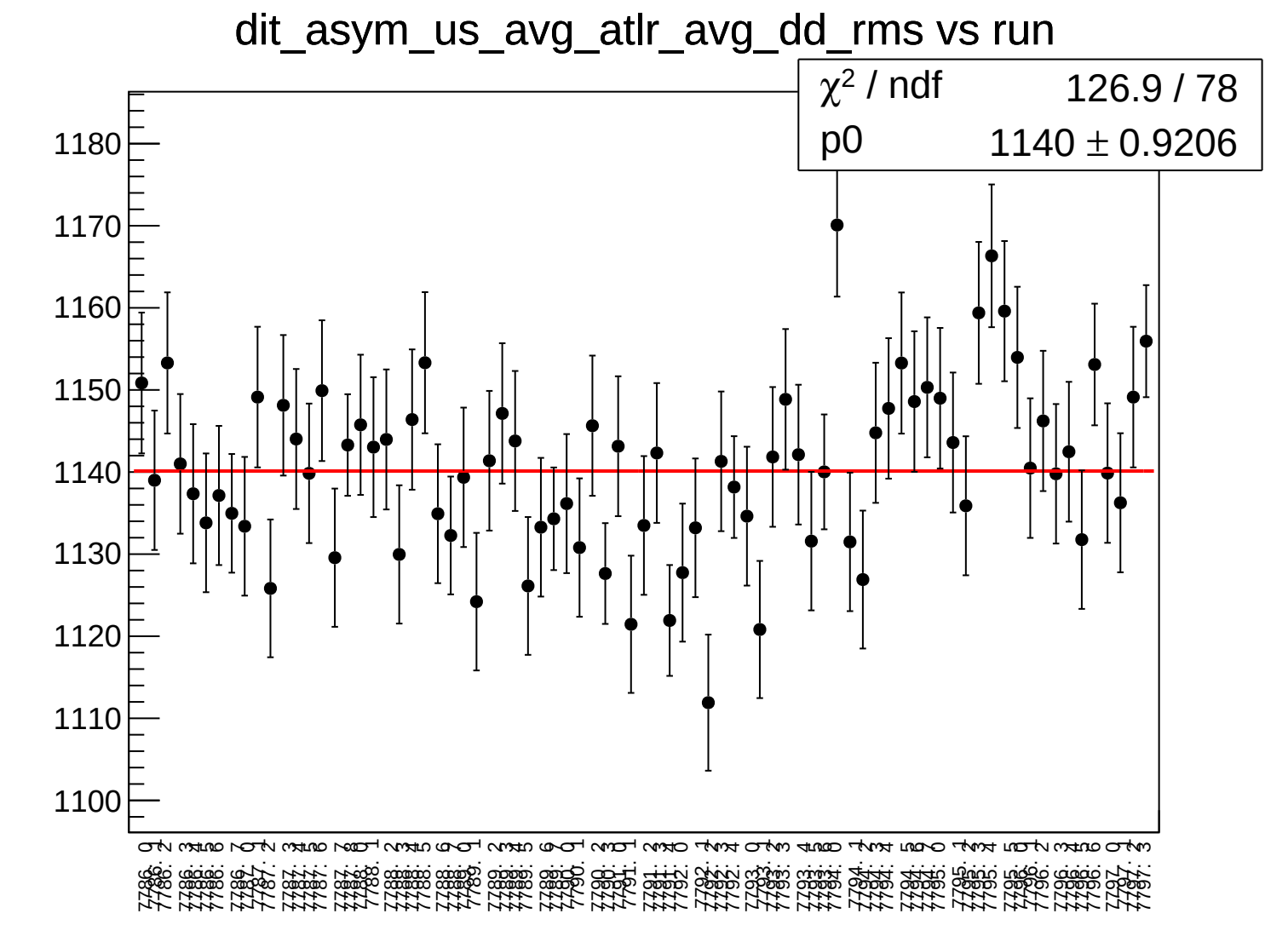

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78 / 78
p0 −227.4 ± 4608
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −306.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

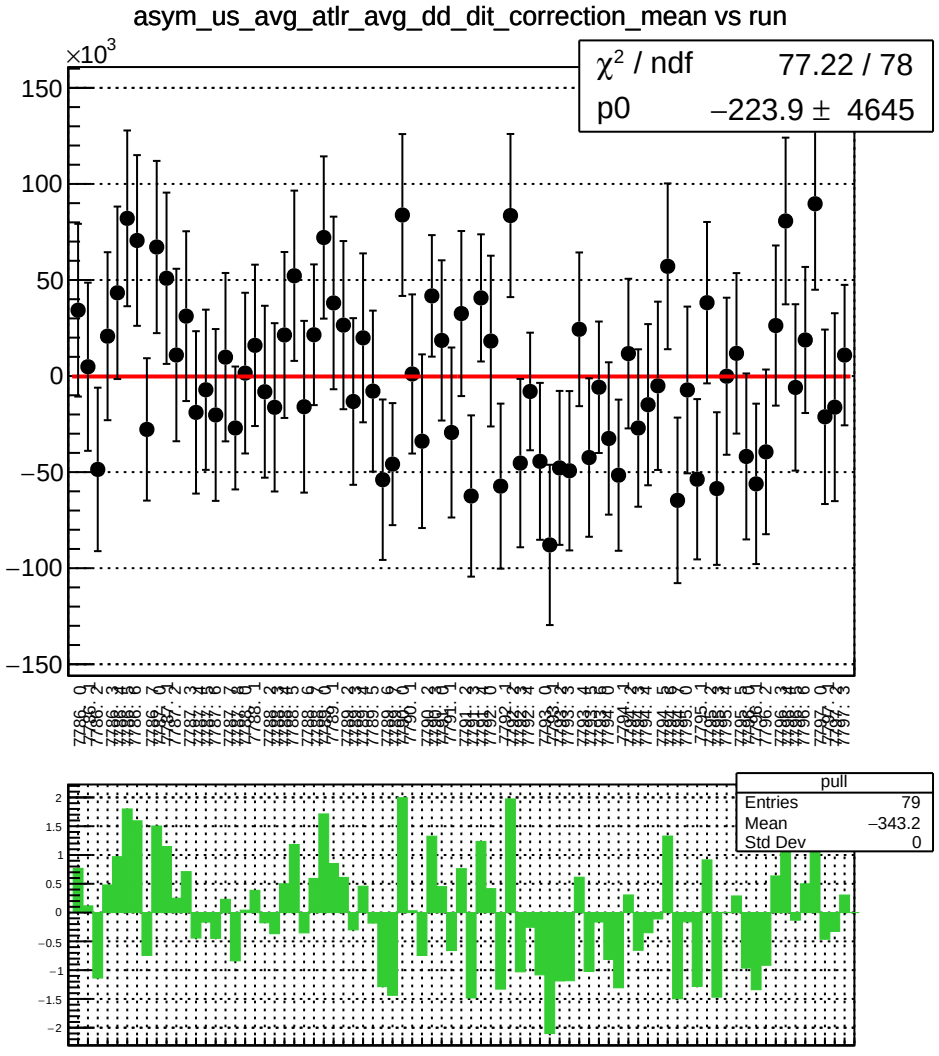

pull1D
Entries 79
Mean 0.0138
Std Dev 0.9935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

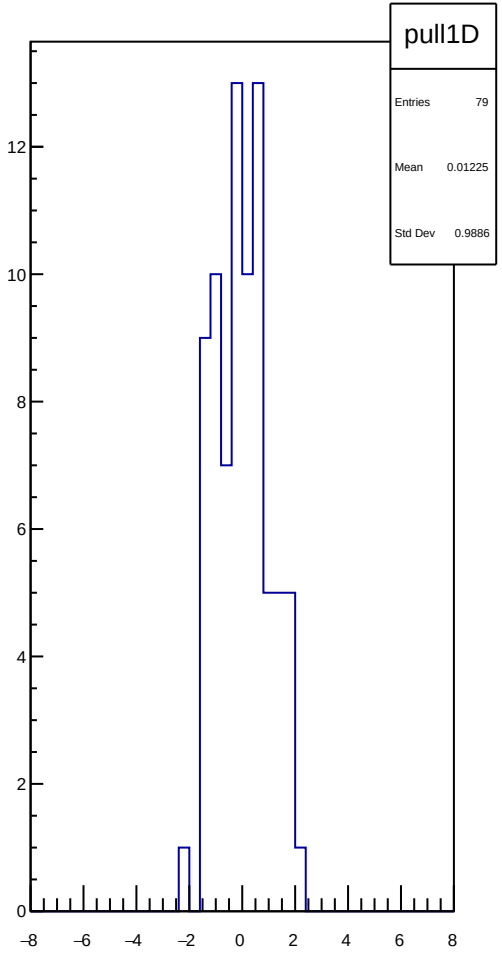

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2694 / 78
p0 4032 ± 3.258
4600
4400
4200
4000
3800
3600

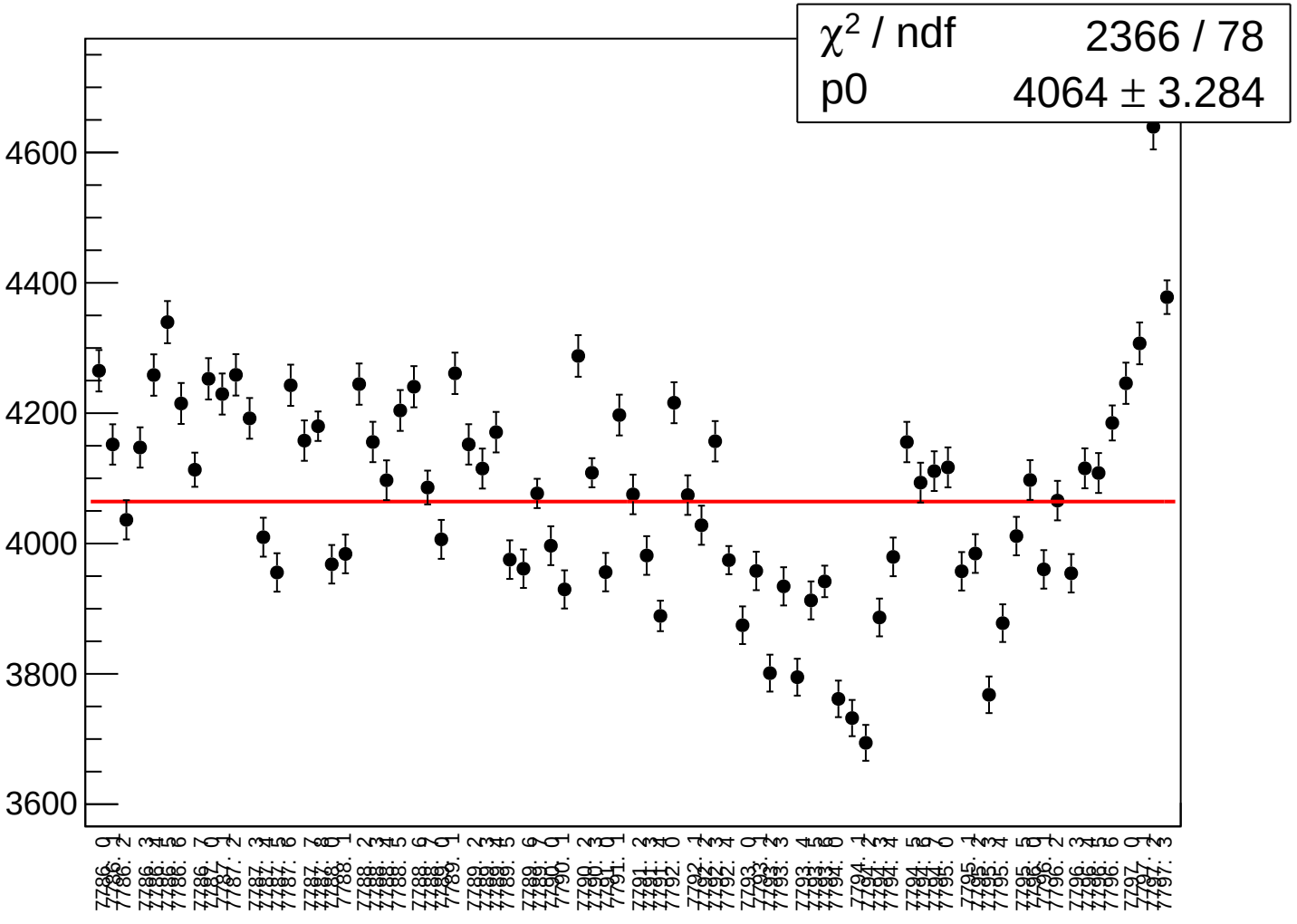

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 83.37 / 78
p0 2063 ± 1302
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −132.2
Std Dev 0
2
1
0
−1
−2
−3

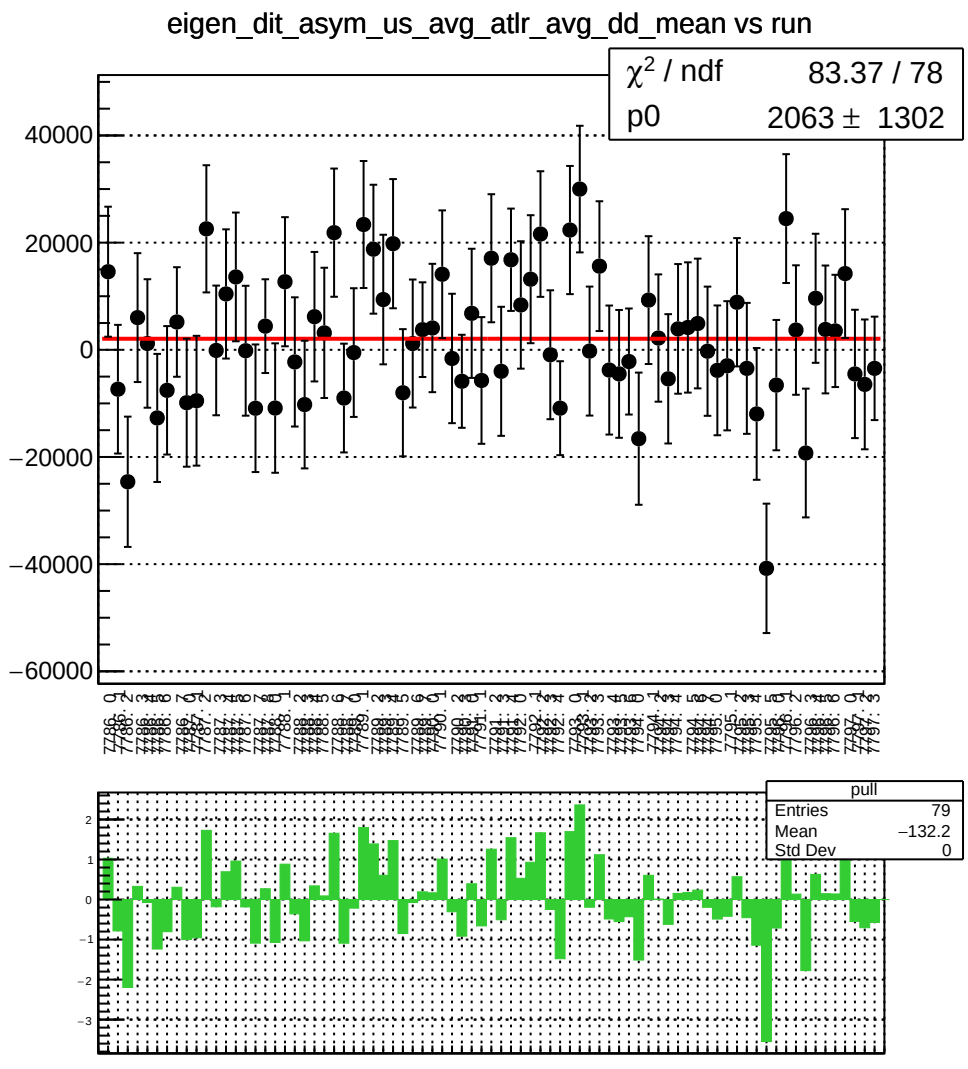

pull1D
Entries 79
Mean 0.005819
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

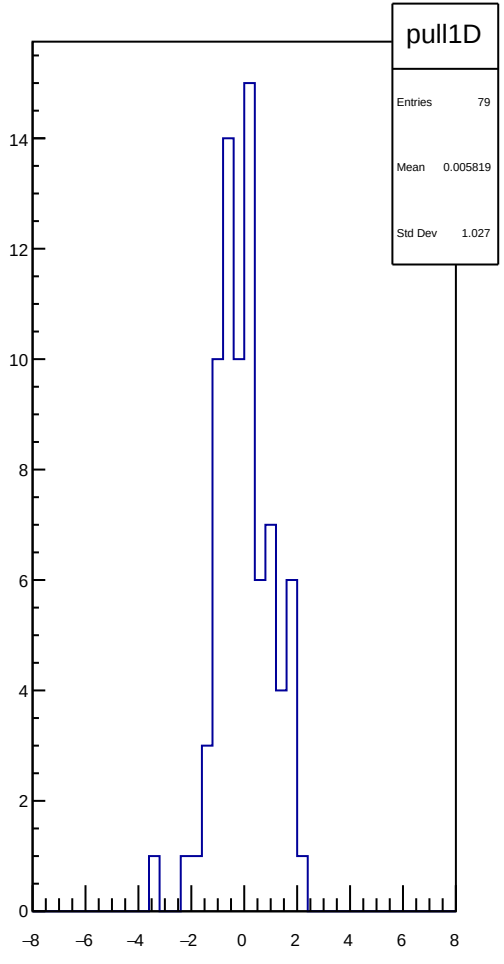

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 126.9 / 78
p0 1140 ± 0.9206
1180
1170
1160
1150
1140
1130
1120
1110
1100

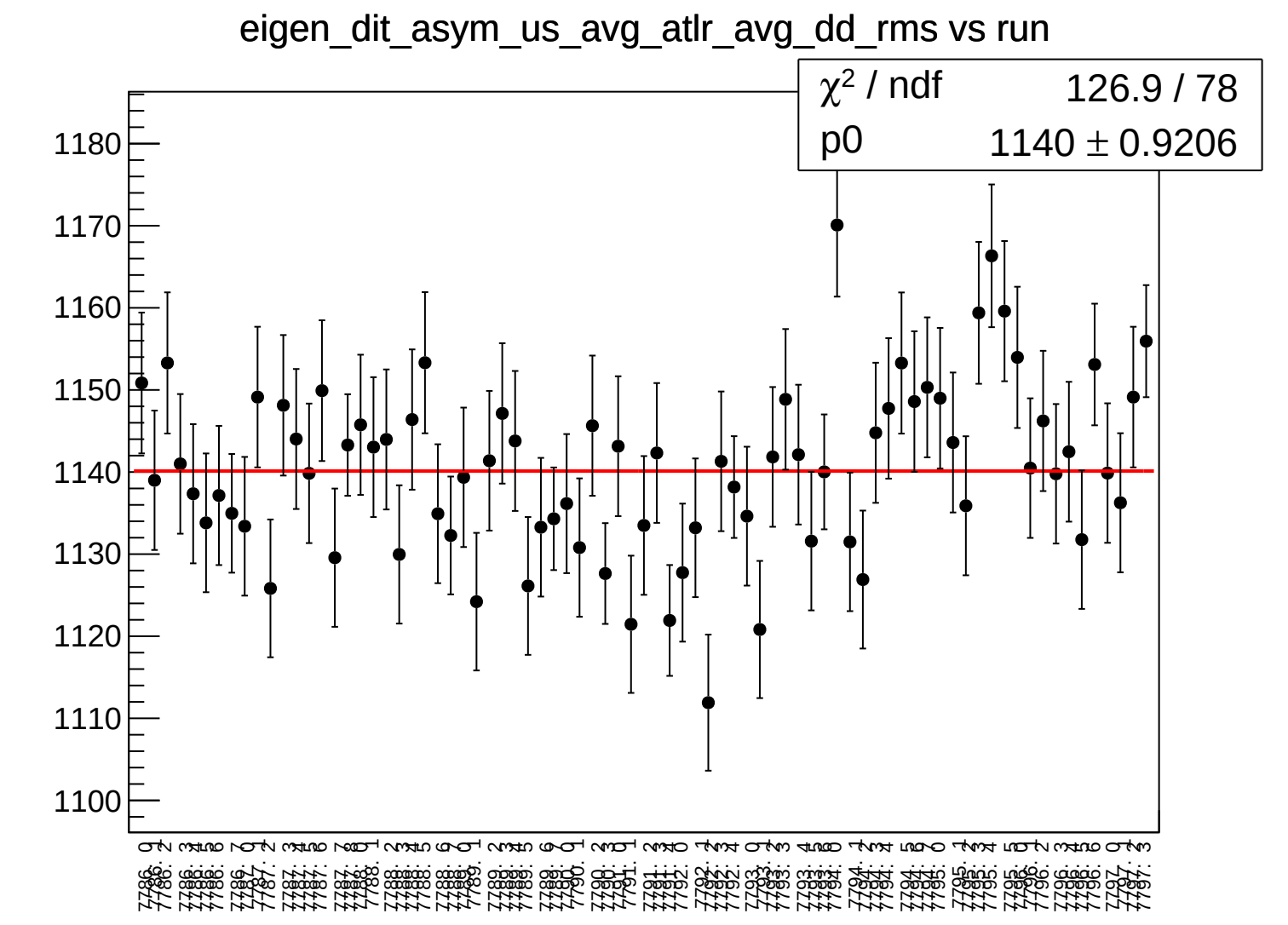

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.22 / 78
p0 −223.9 ± 4645
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −343.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

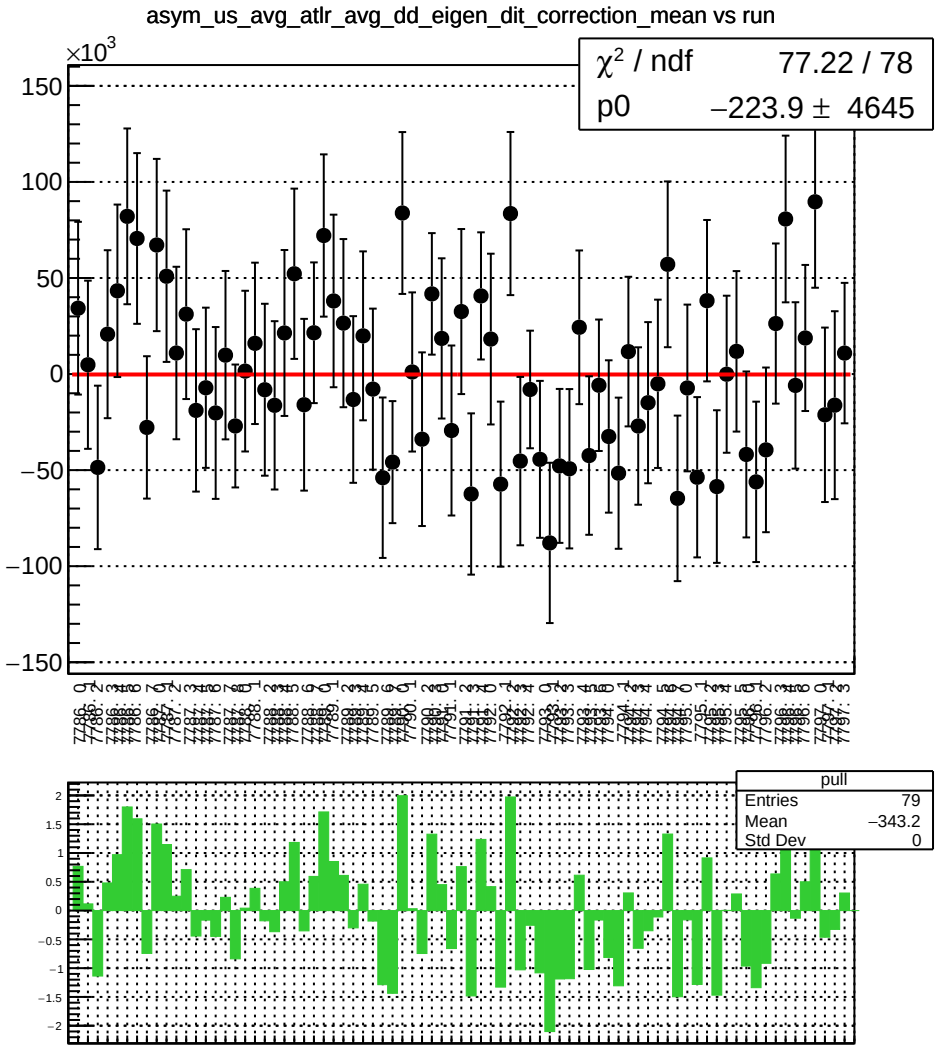

pull1D
Entries 79
Mean 0.01225
Std Dev 0.9886
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

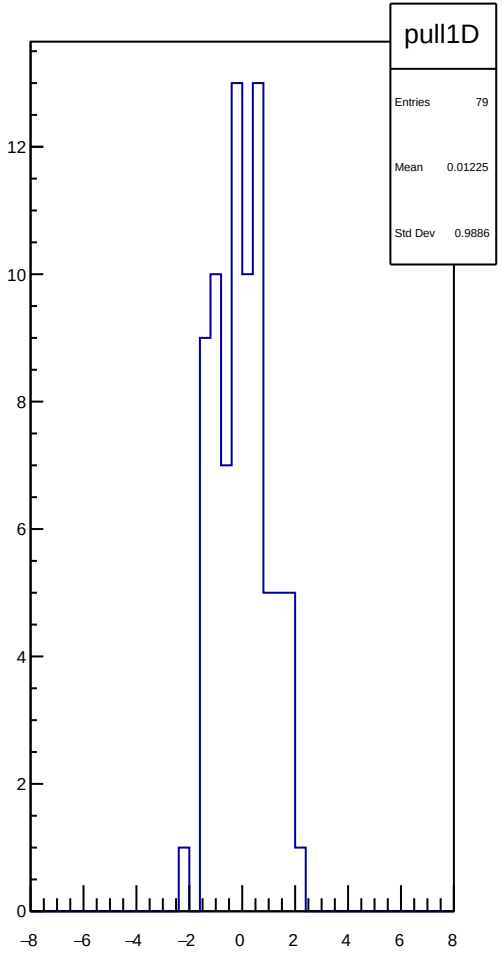

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 2366 / 78
p0 4064 ± 3.284
4600
4400
4200
4000
3800
3600

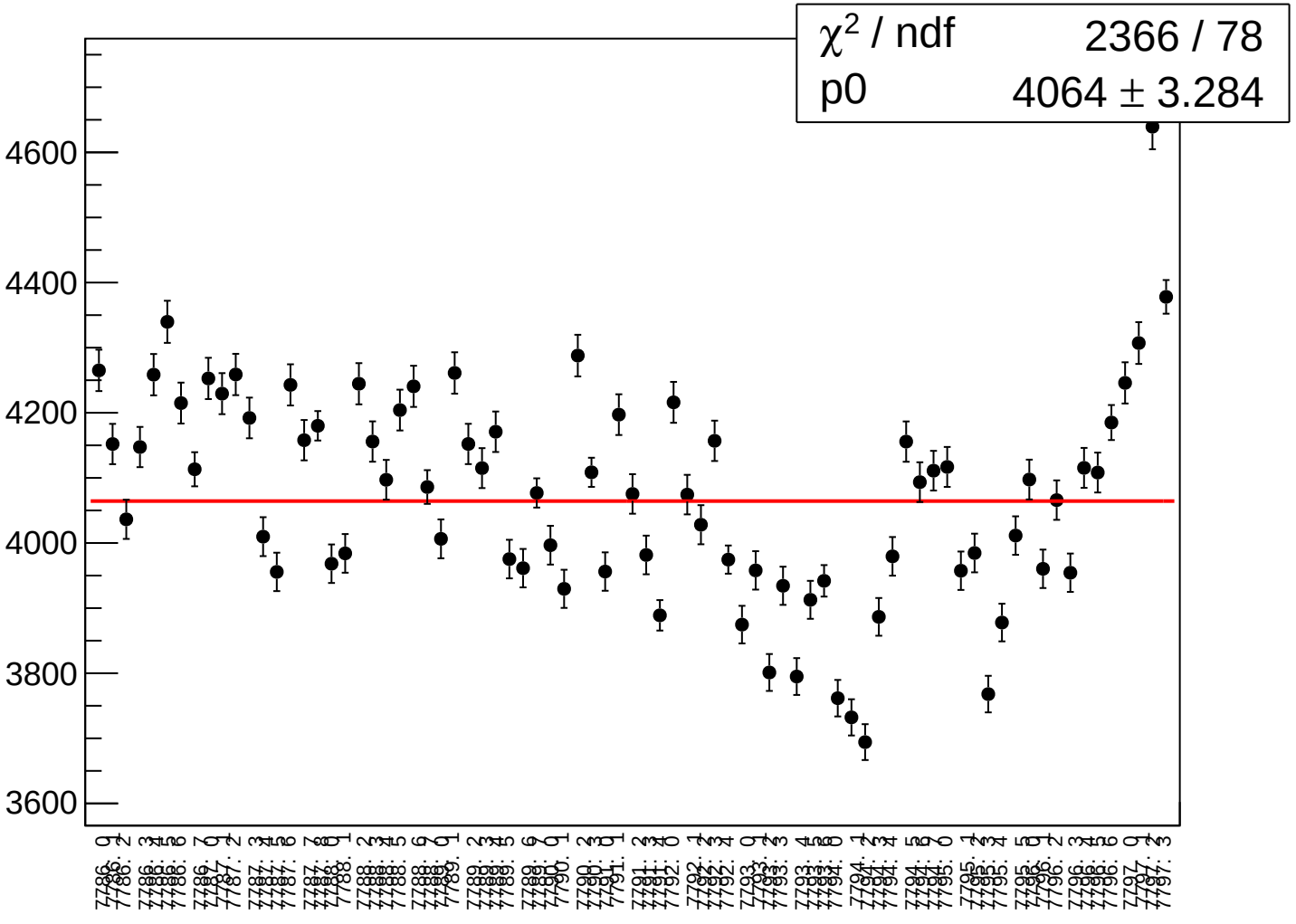

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 83.37 / 78
p0 2063 ± 1302
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −132.2
Std Dev 0
2
1
0
−1
−2
−3

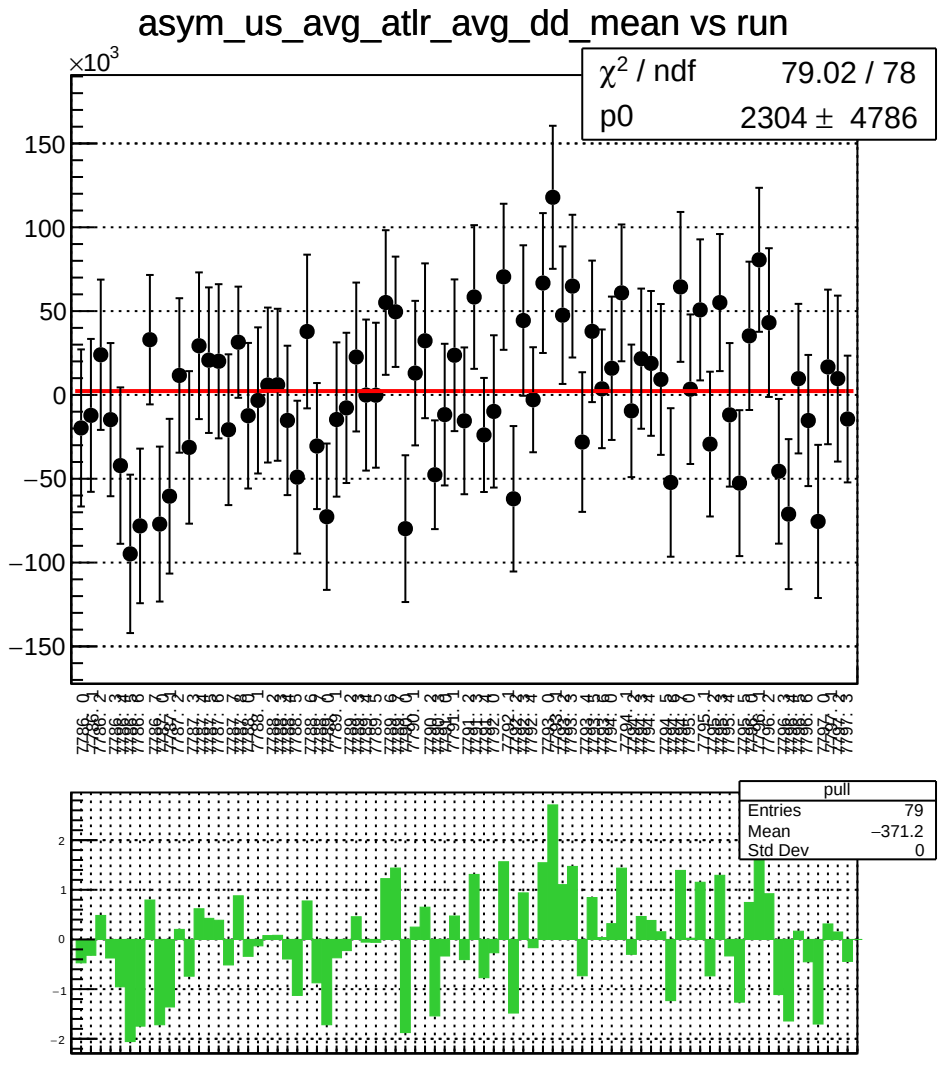

pull1D
Entries 79
Mean 0.005819
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

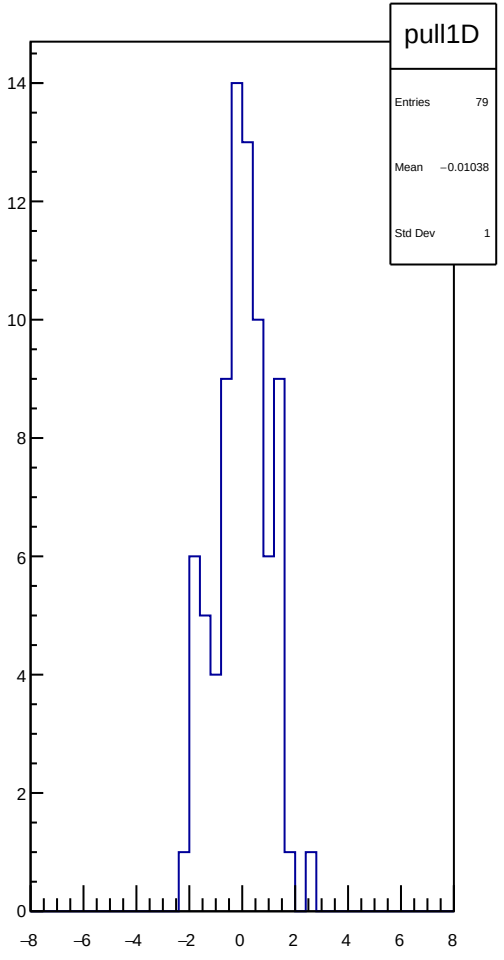

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 126.9 / 78
p0 1140 ± 0.9206
1180
1170
1160
1150
1140
1130
1120
1110
1100

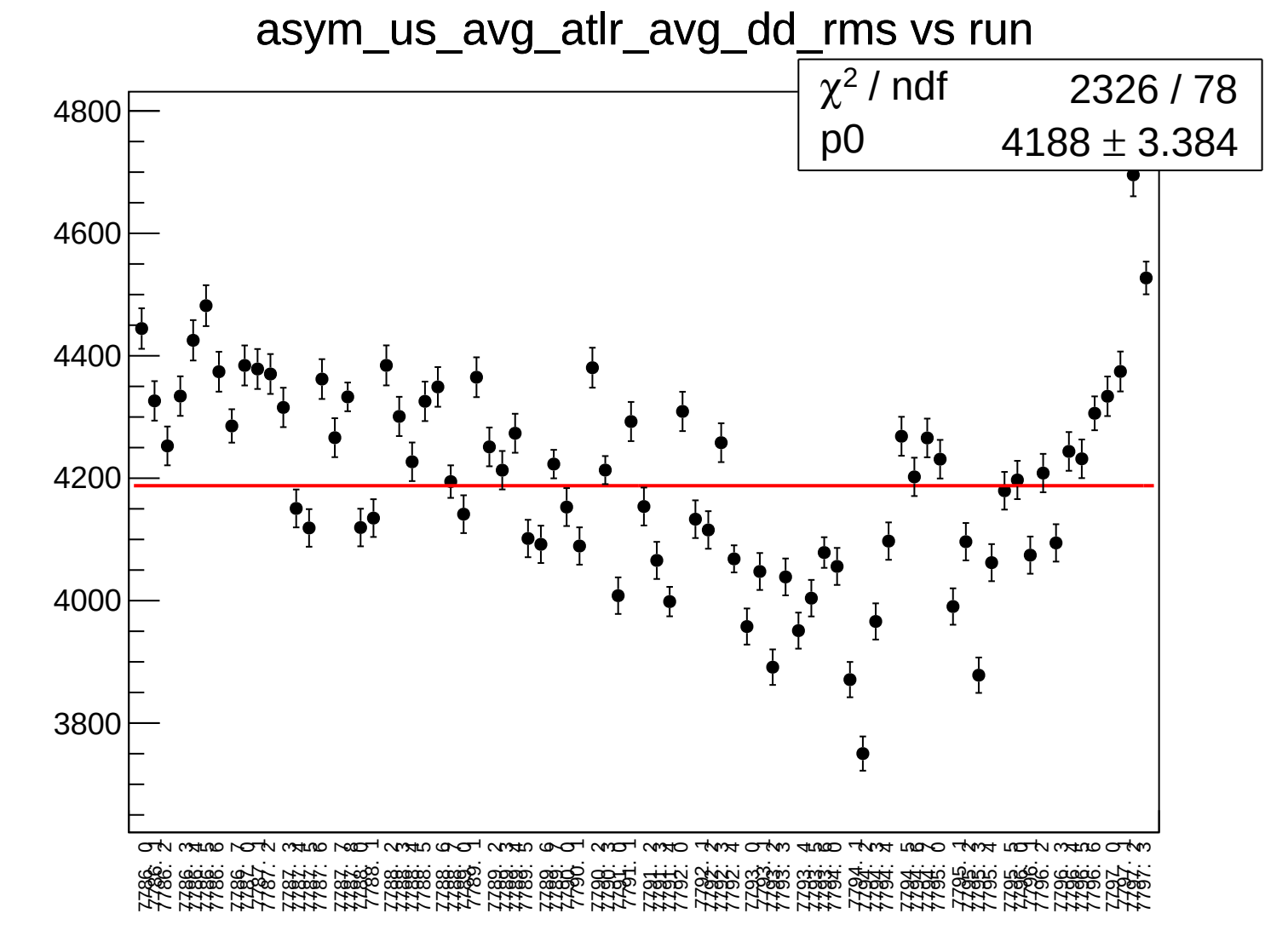

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.22 / 78
p0 −223.9 ± 4645
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −343.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

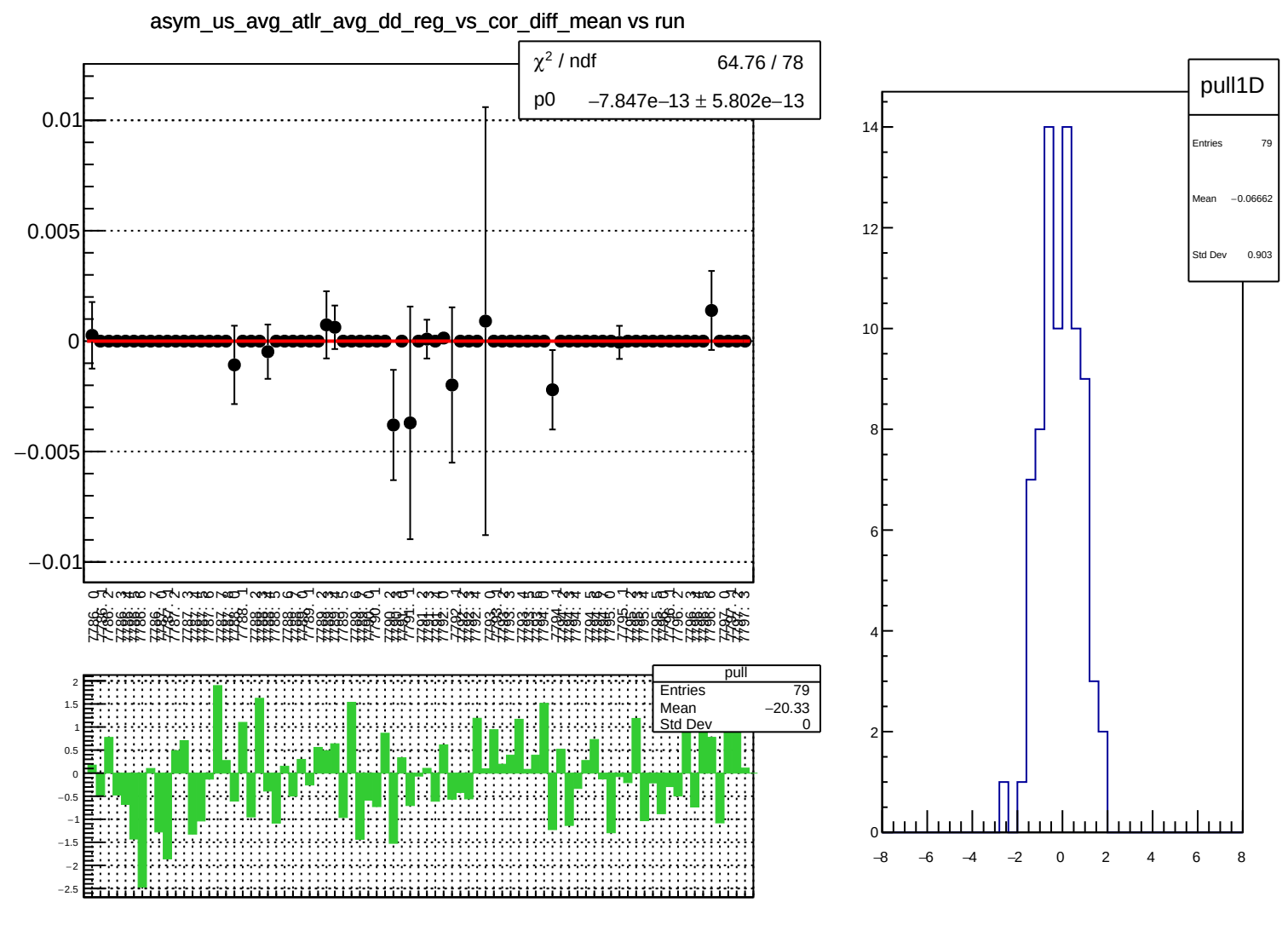

pull1D
Entries 79
Mean 0.01225
Std Dev 0.9886
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

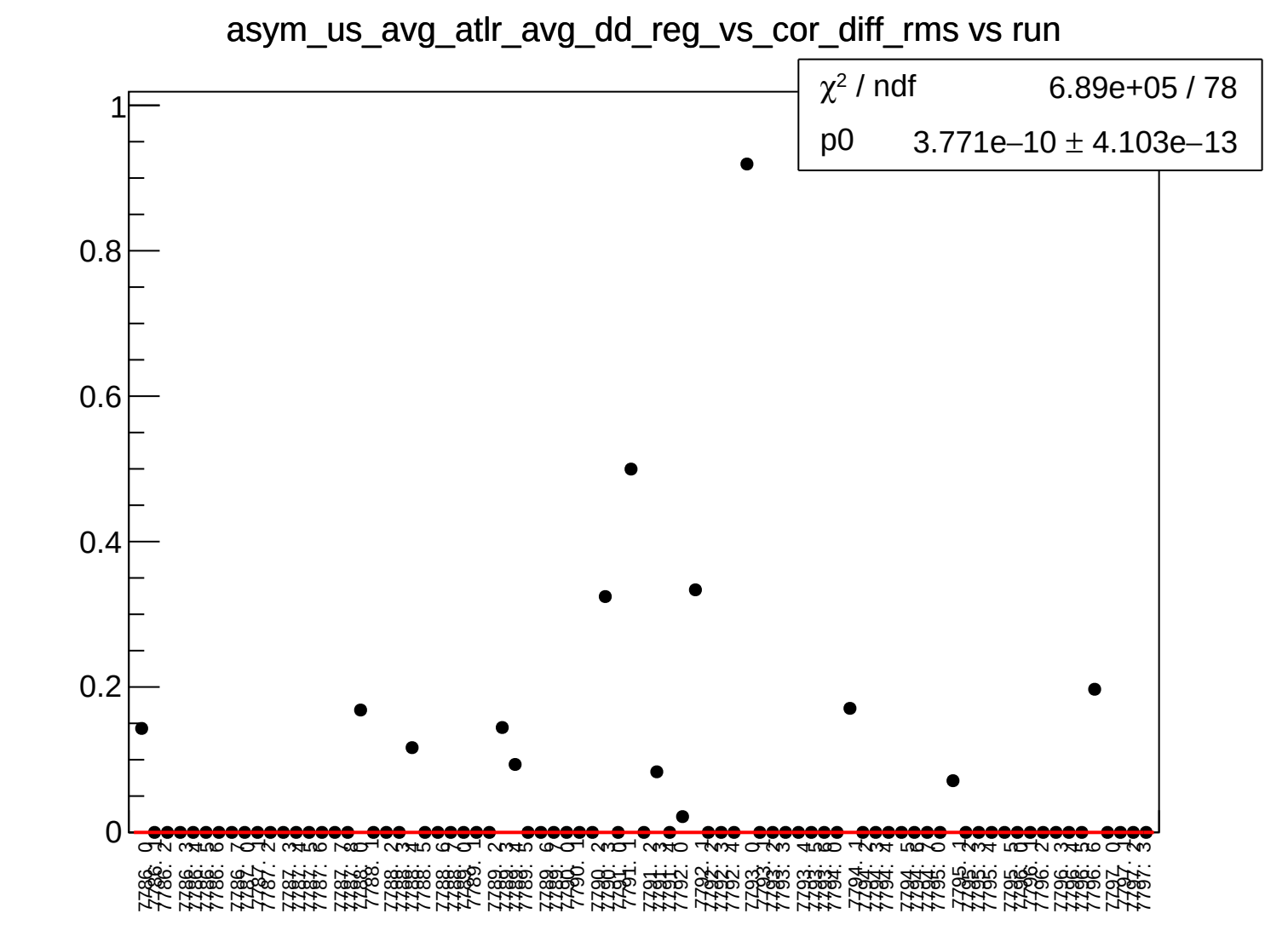

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2366 / 78
p0 4064 ± 3.284
4600
4400
4200
4000
3800
3600

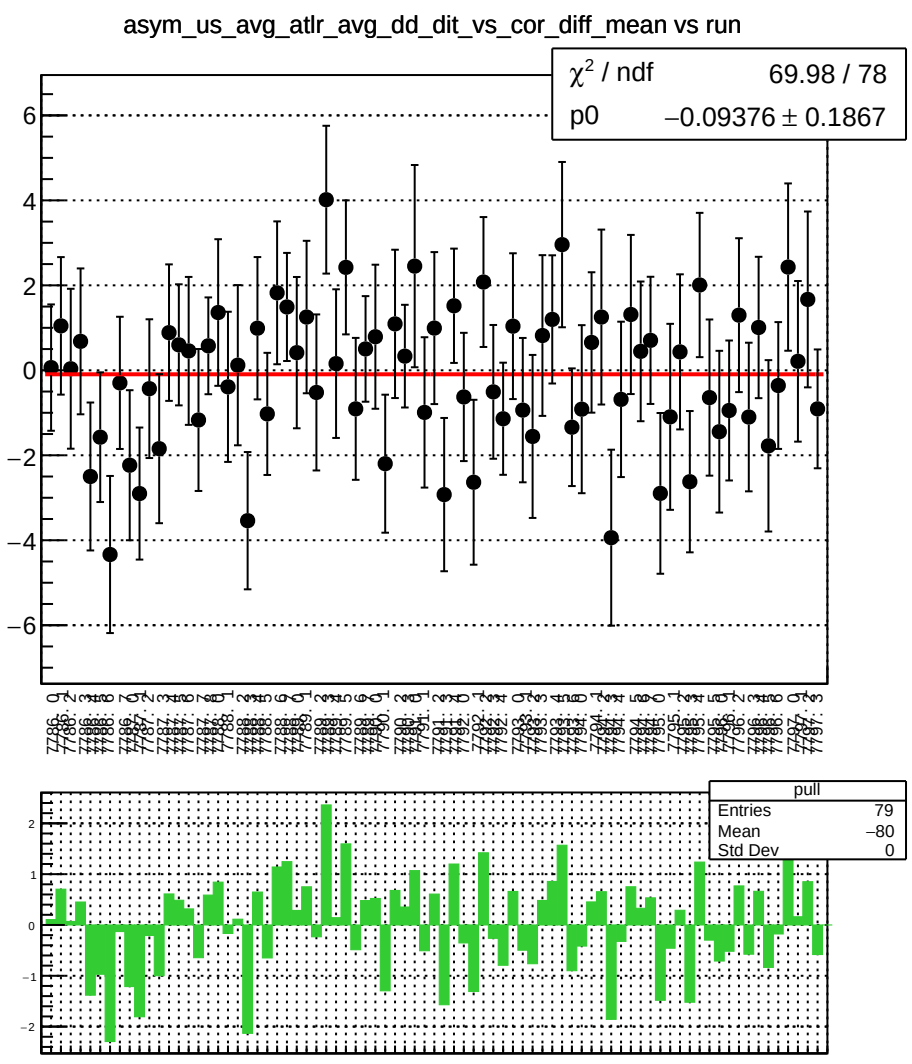

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 79.02 / 78
p0 2304 ± 4786
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −371.2
Std Dev 0
2
1
0
−1
−2

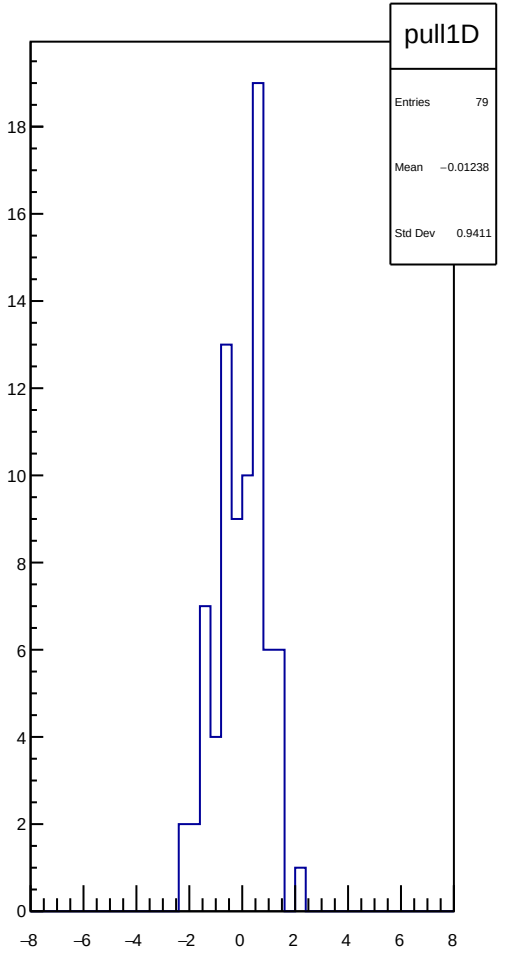

pull1D
Entries 79
Mean −0.01038
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

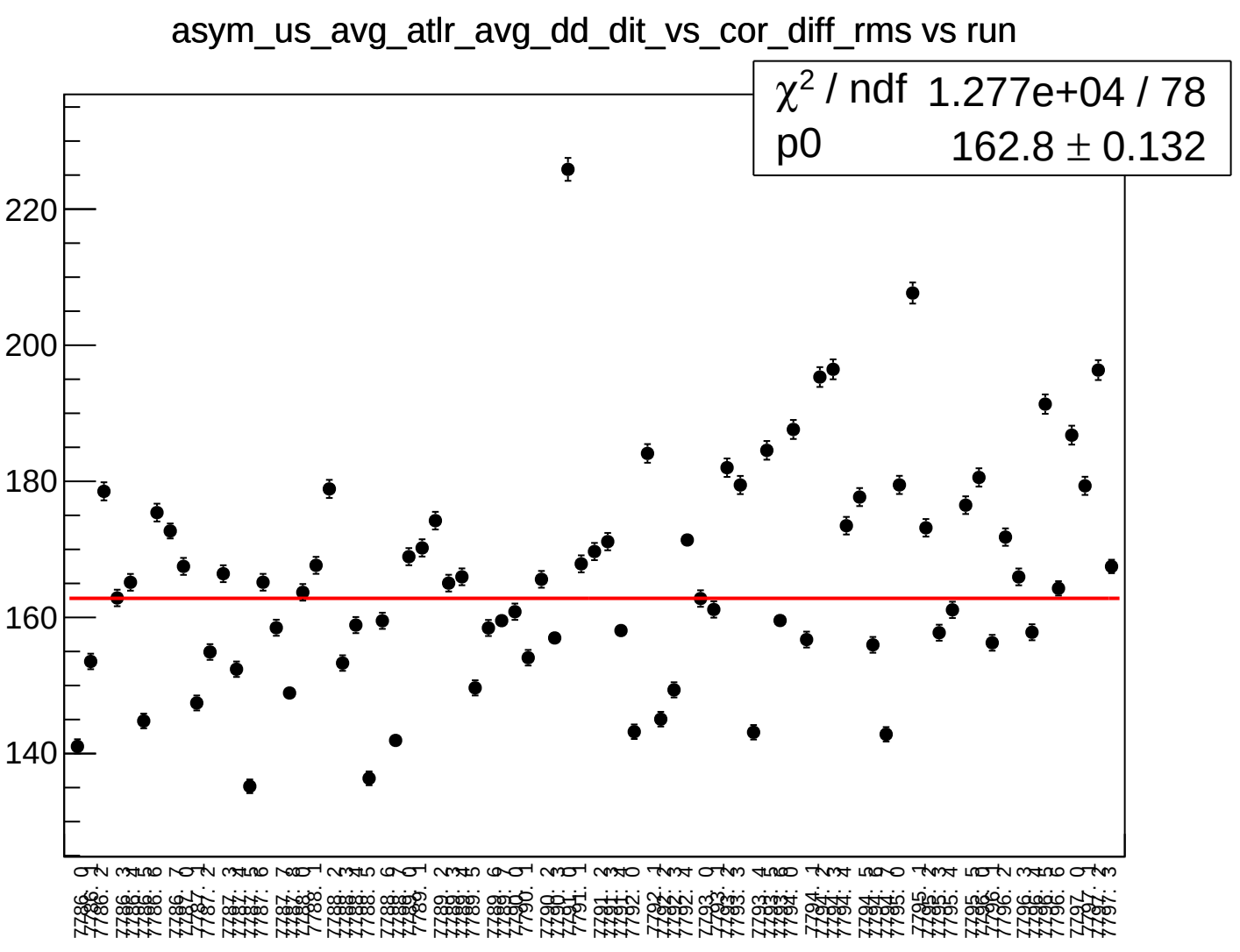

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2326 / 78
p0 4188 ± 3.384
4800
4600
4400
4200
4000
3800

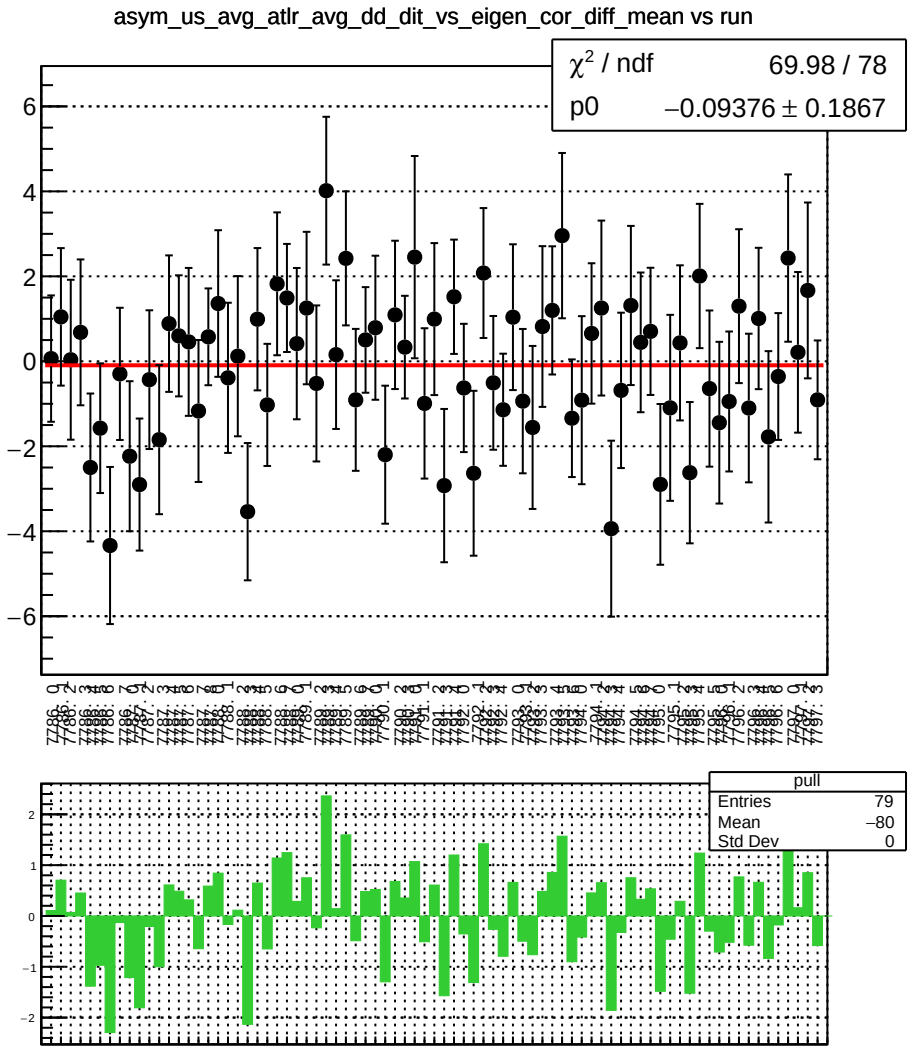

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.76 / 78
p0 −7.847e−13 ± 5.802e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 79
Mean −20.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 79
Mean −0.06662
Std Dev 0.903
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

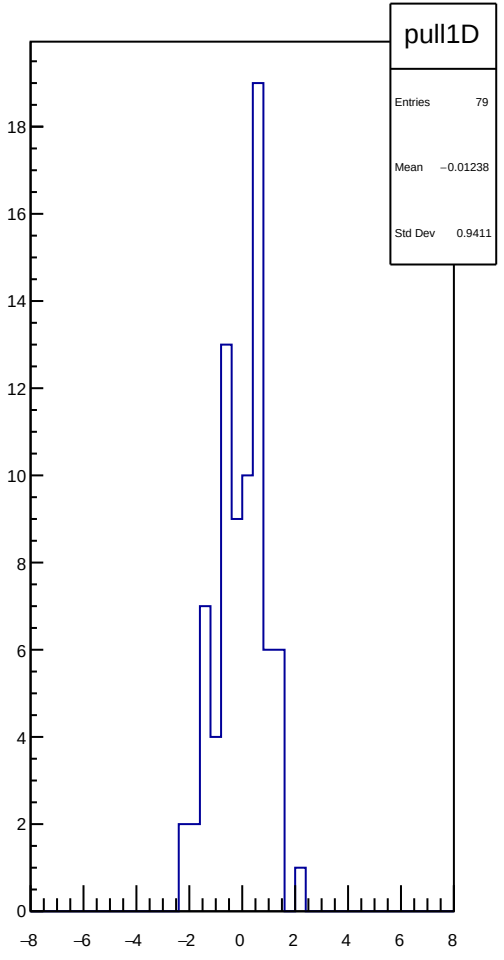

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.89e+05 / 78
p0 3.771e−10 ± 4.103e−13
1
0.8
0.6
0.4
0.2
0

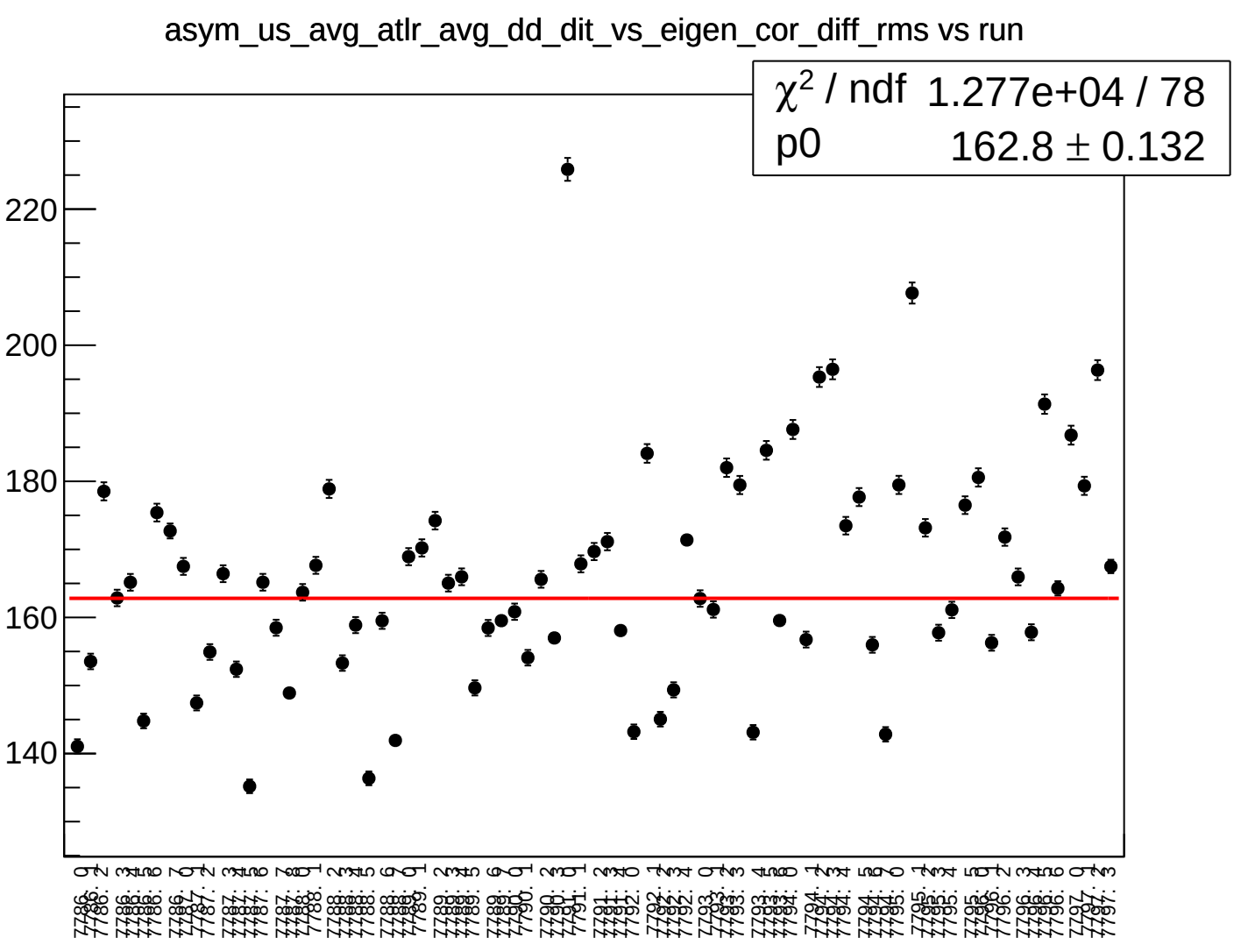

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.98 / 78
p0 −0.09376 ± 0.1867
pull
Entries 79
Mean −80
Std Dev 0

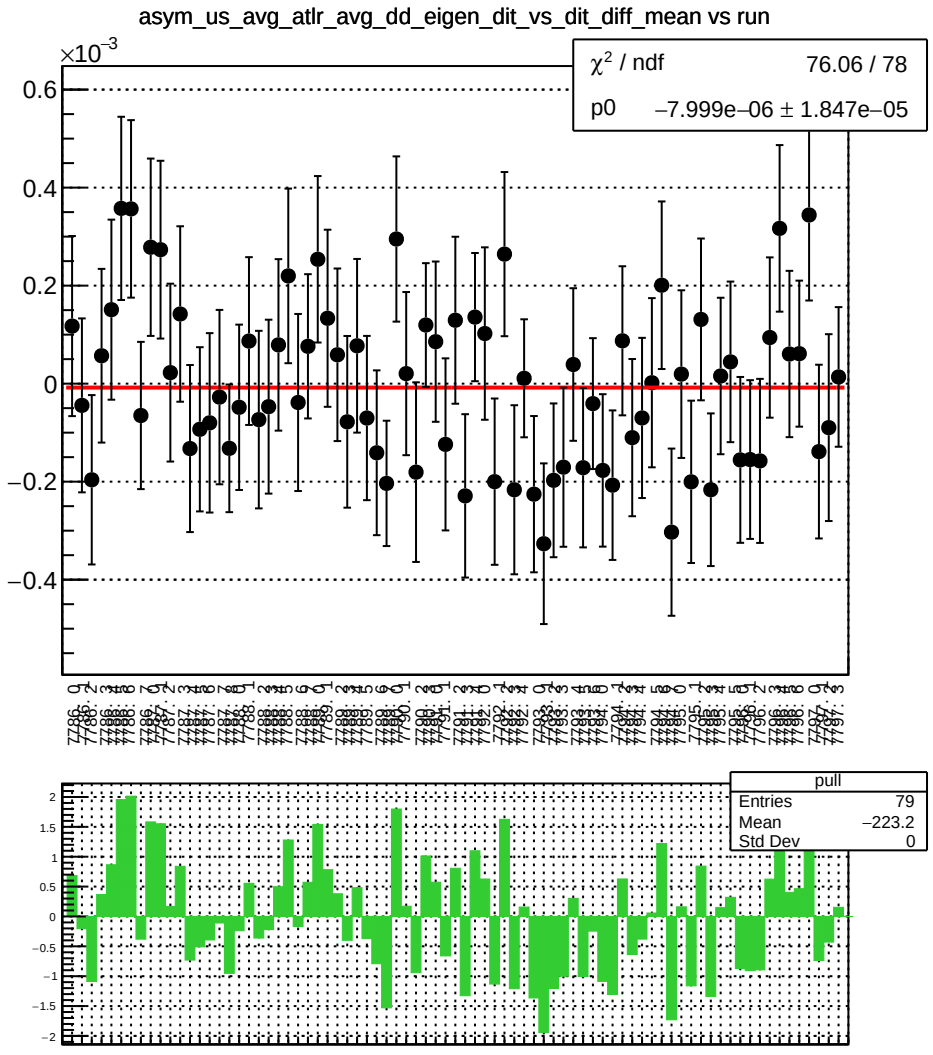

pull1D
Entries 79
Mean −0.01238
Std Dev 0.9411

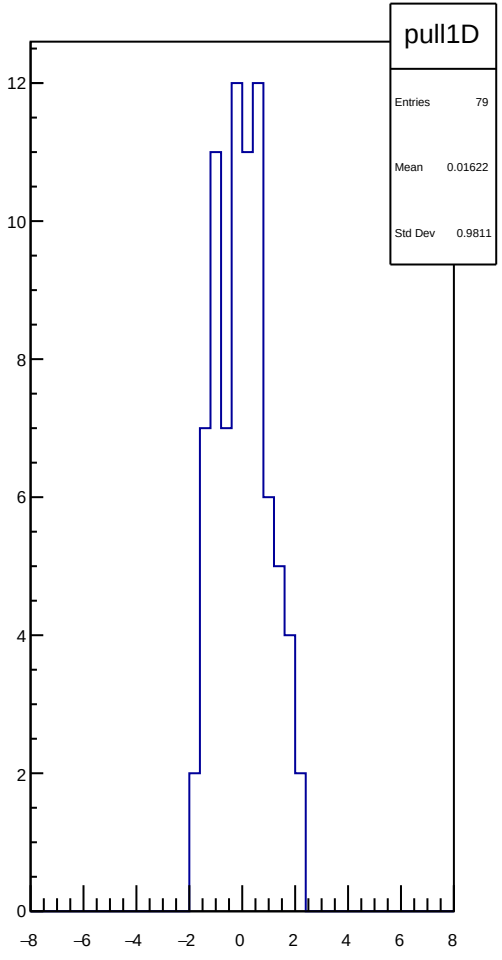

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.277e+04 / 78
p0 162.8 ± 0.132
220
200
180
160
140

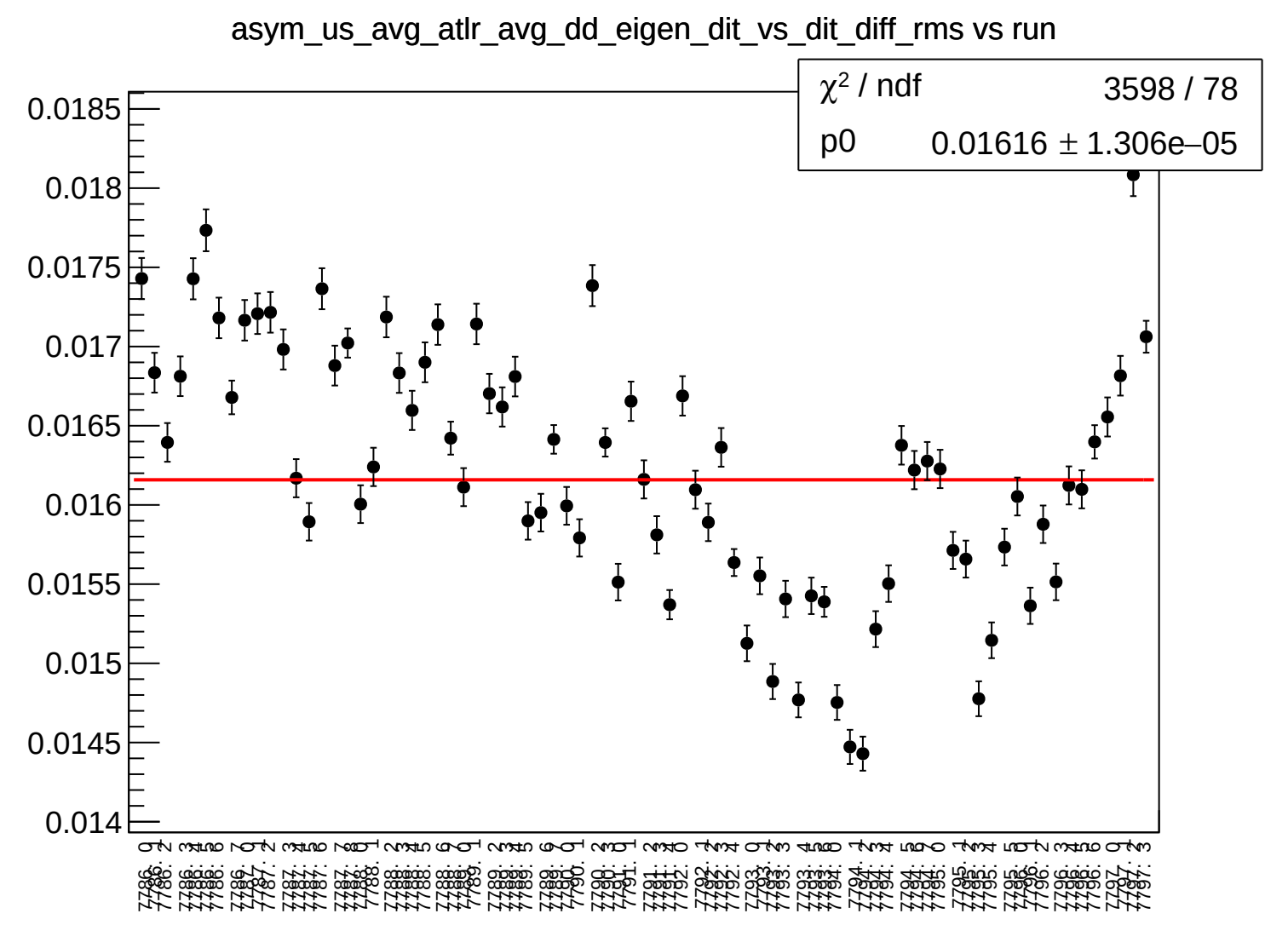

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.98 / 78
p0 −0.09376 ± 0.1867
pull
Entries 79
Mean −80
Std Dev 0

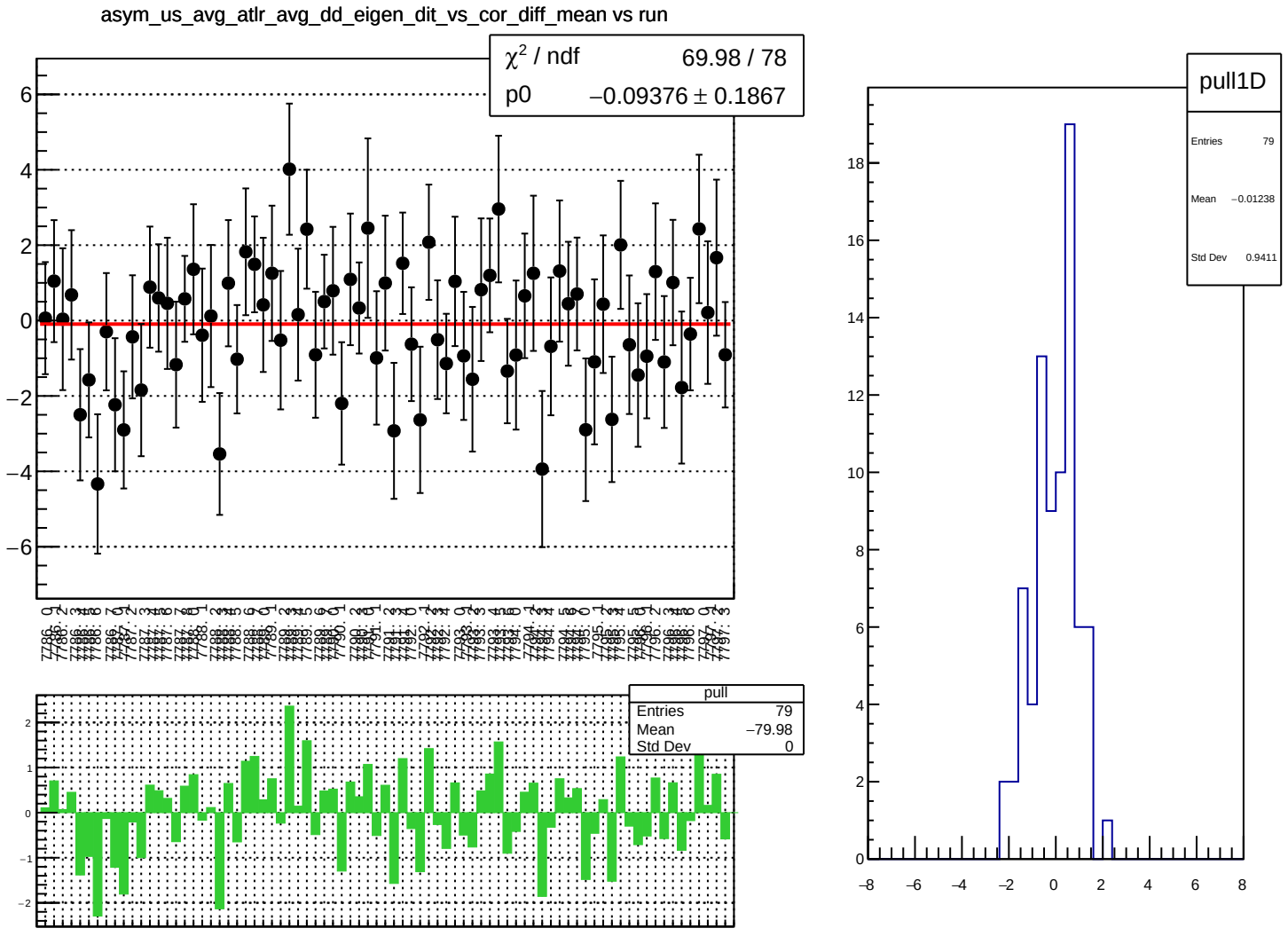

pull1D
Entries 79
Mean −0.01238
Std Dev 0.9411

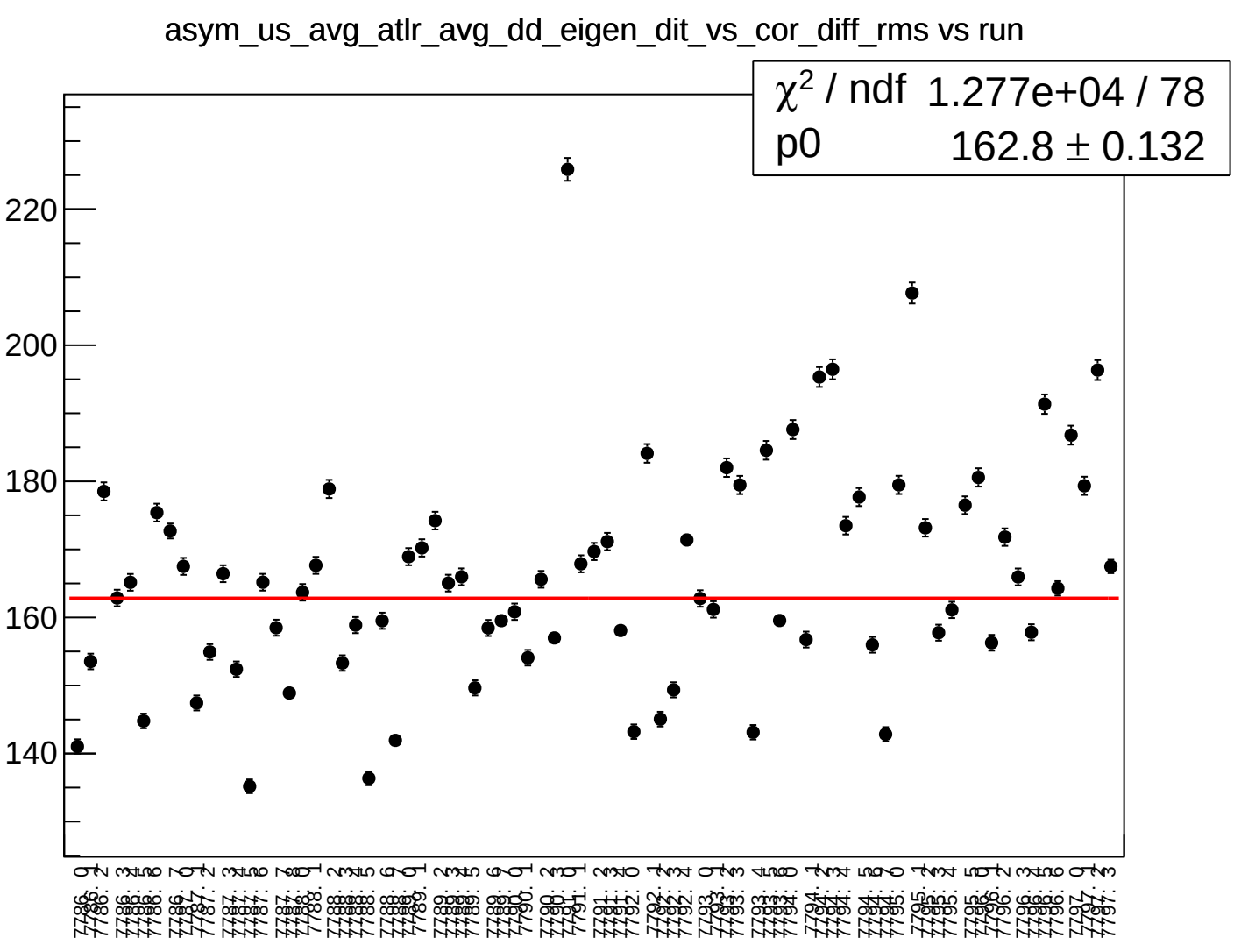

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.277e+04 / 78
p0 162.8 ± 0.132
220
200
180
160
140

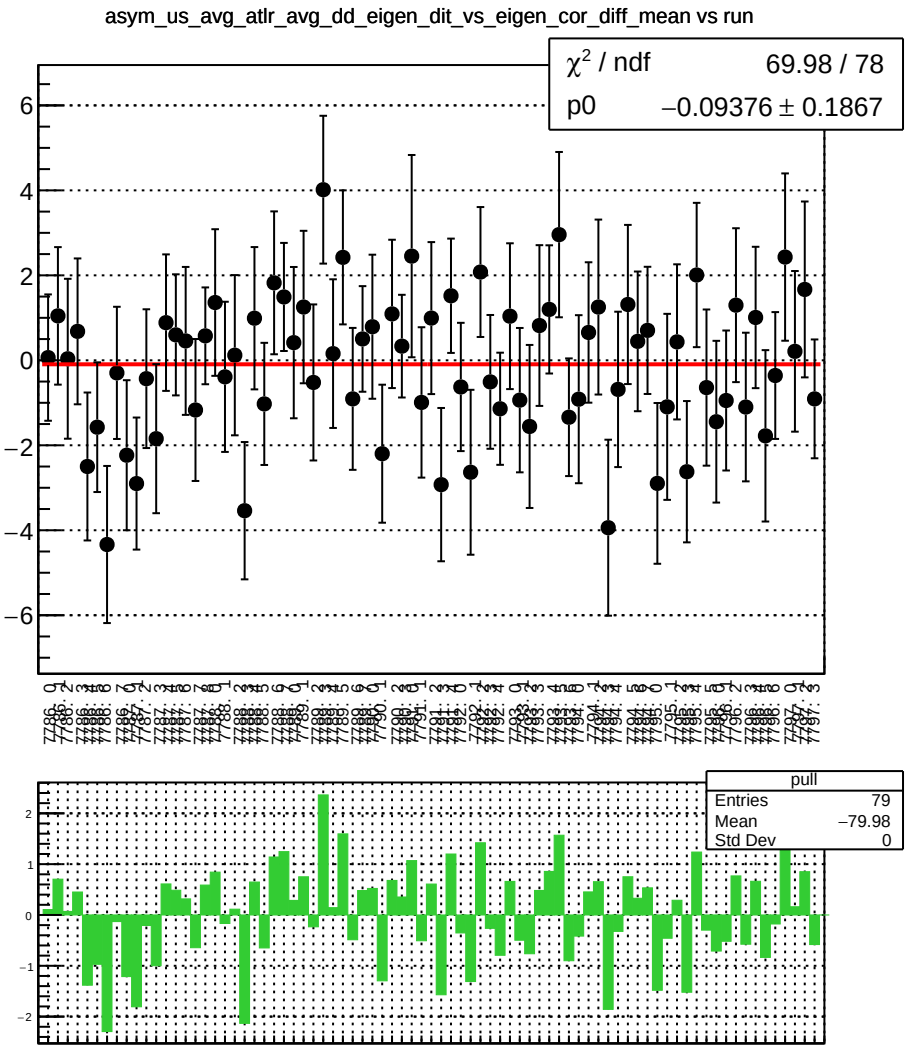

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.06 / 78
p0 −7.999e−06 ± 1.847e−05
pull
Entries 79
Mean −223.2
Std Dev 0

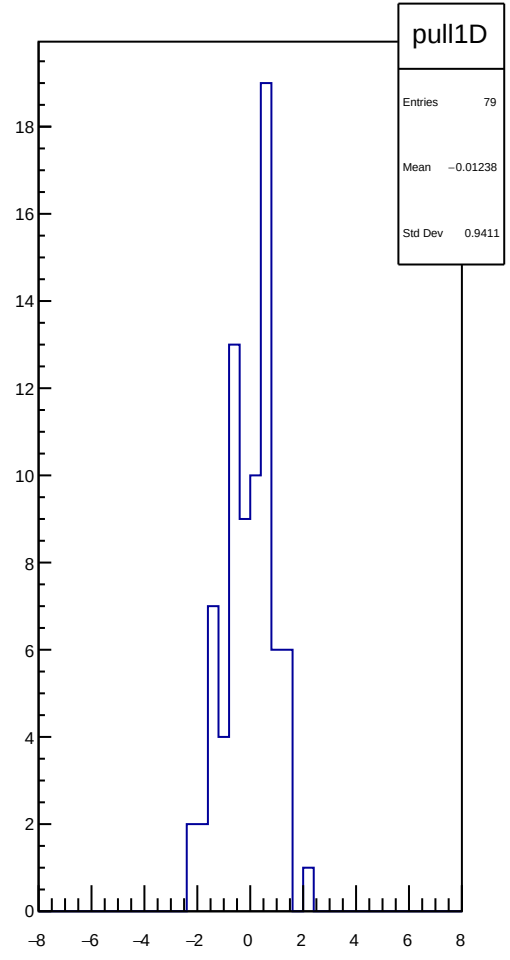

pull1D
Entries 79
Mean 0.01622
Std Dev 0.9811

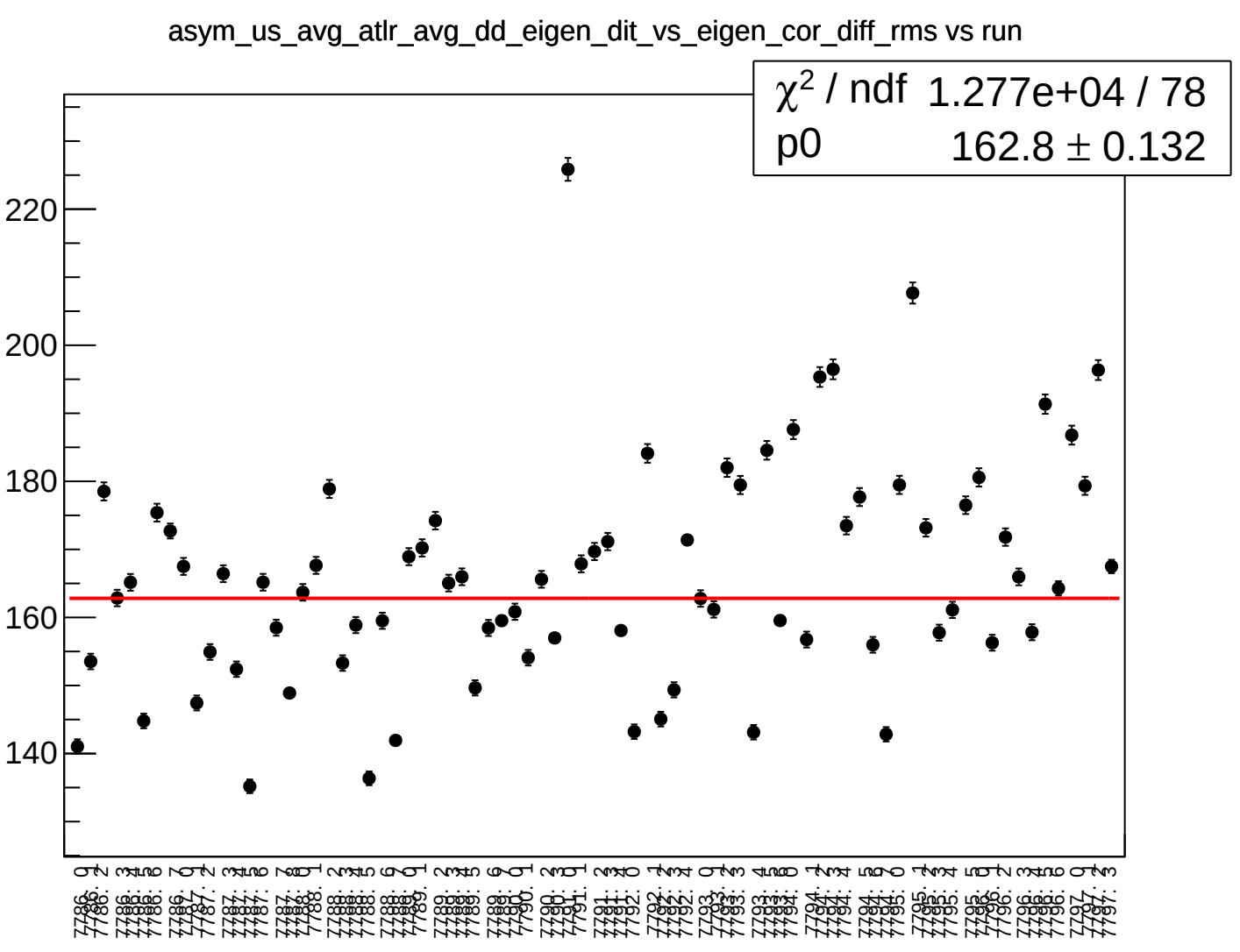

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3598 / 78
p0 0.01616 ± 1.306e−05
0.0185
0.018
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014

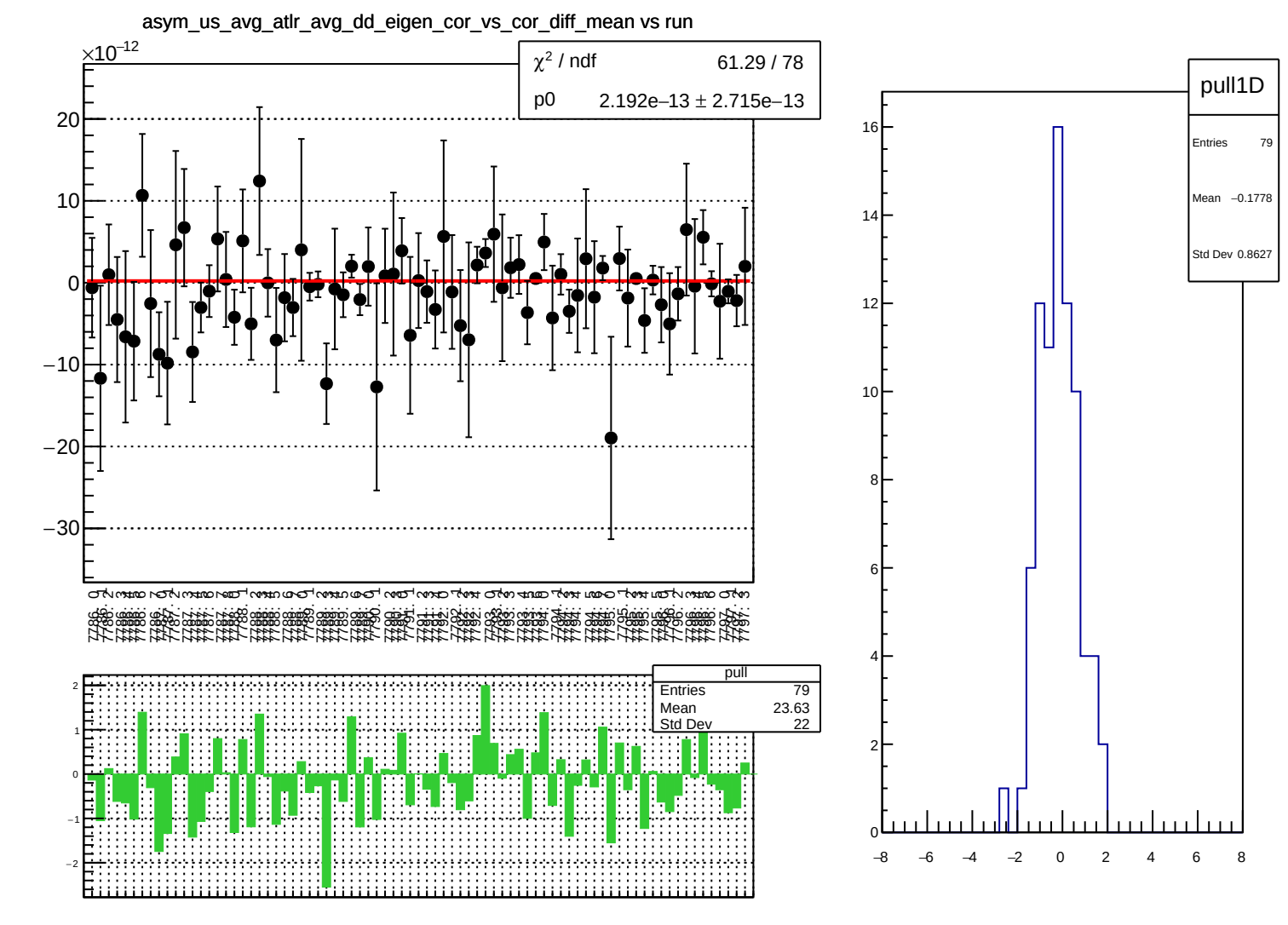

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.98 / 78
p0 −0.09376 ± 0.1867
pull
Entries 79
Mean −79.98
Std Dev 0
pull1D
Entries 79
Mean −0.01238
Std Dev 0.9411

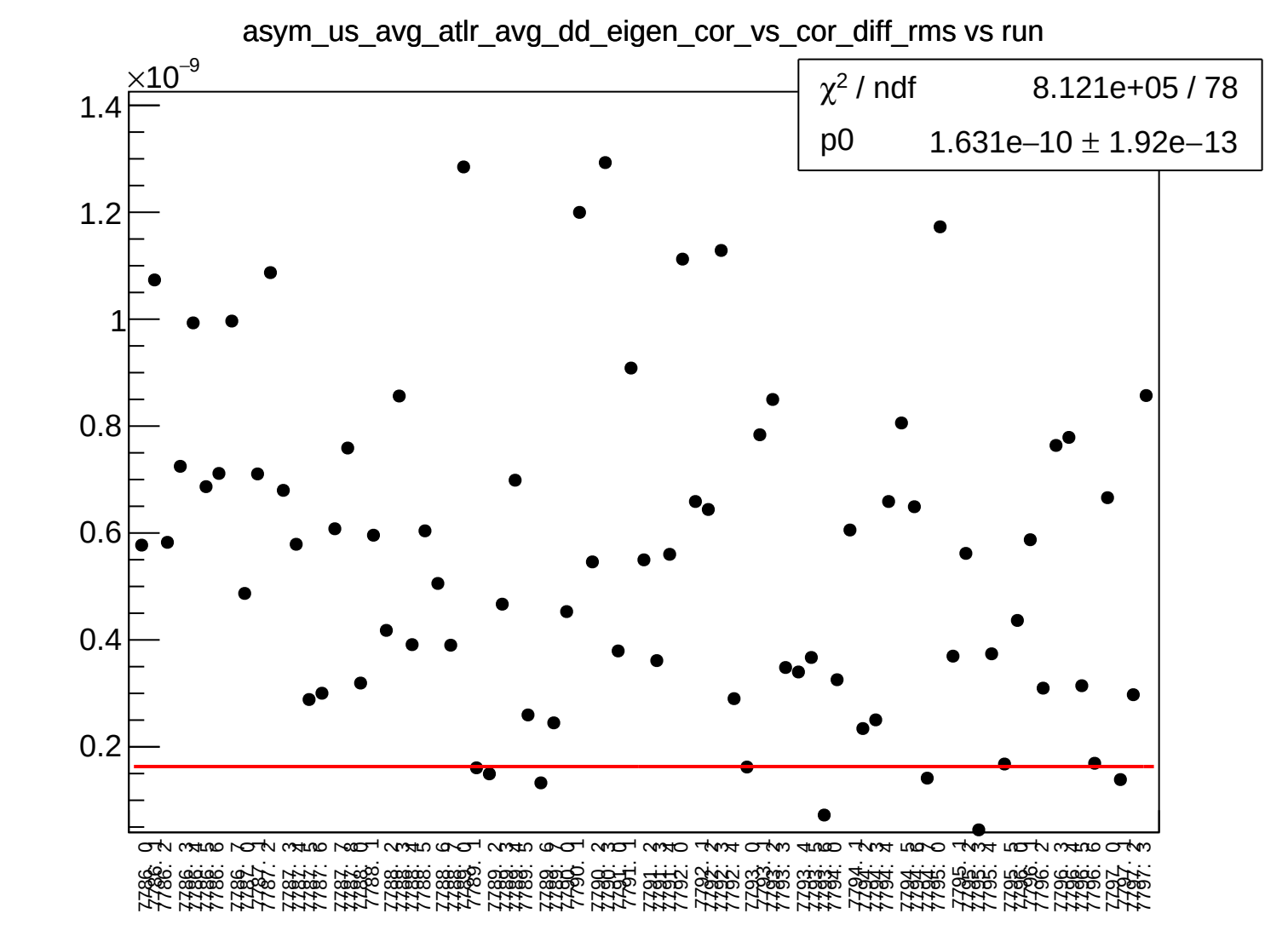

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.277e+04 / 78
p0 162.8 ± 0.132
220
200
180
160
140

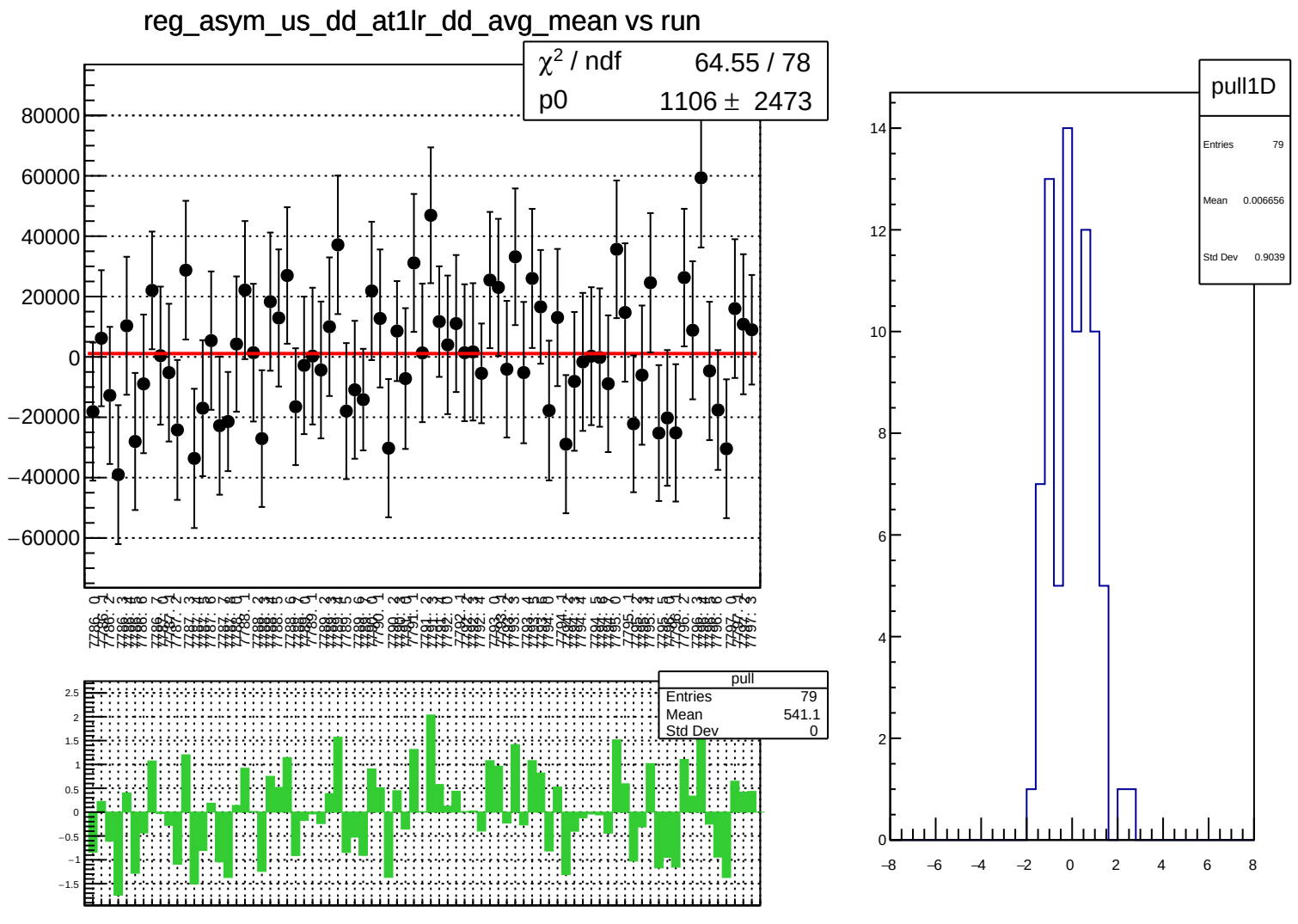

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.98 / 78
p0 −0.09376 ± 0.1867
pull
Entries 79
Mean −79.98
Std Dev 0

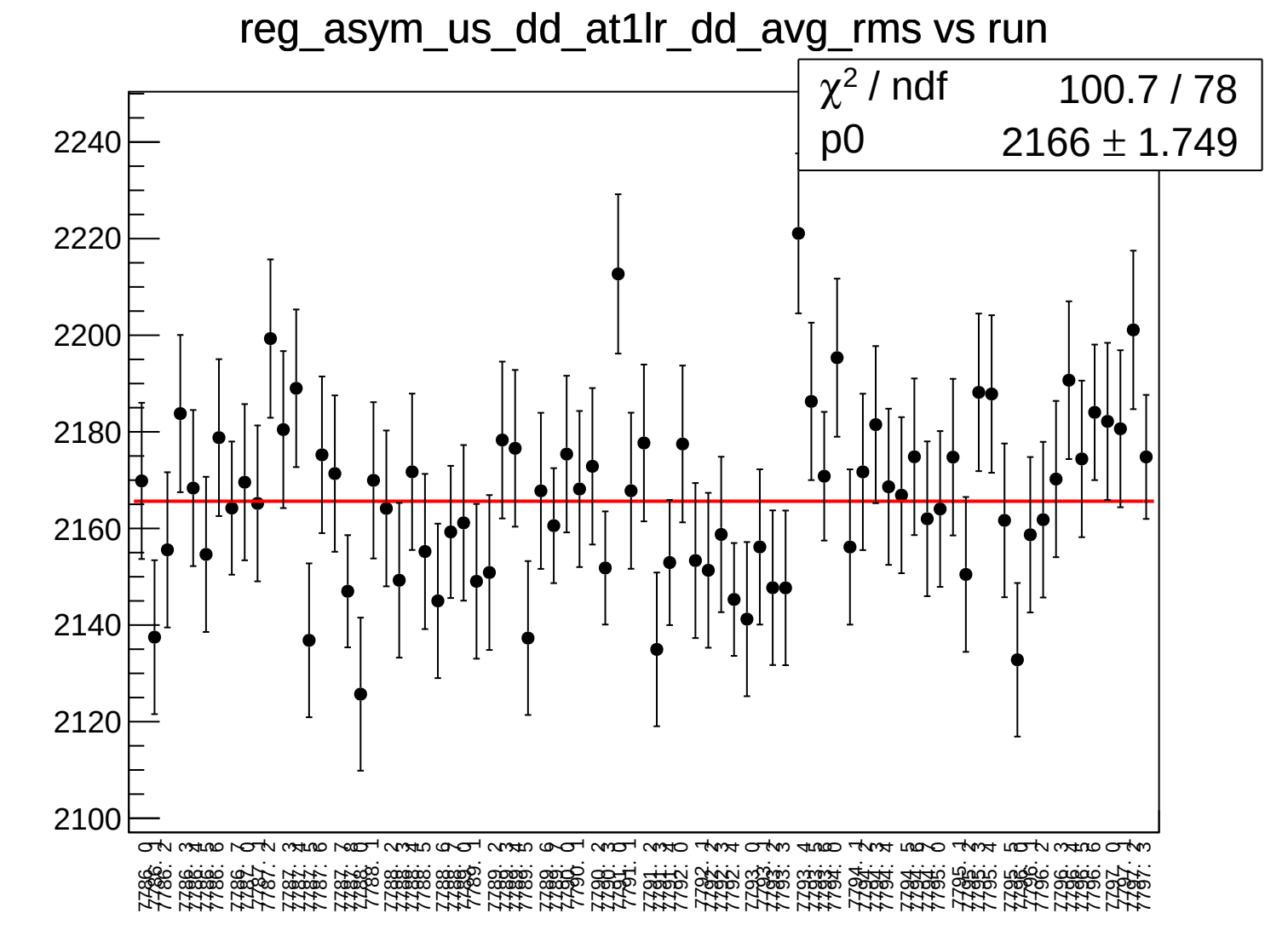

pull1D
Entries 79
Mean −0.01238
Std Dev 0.9411

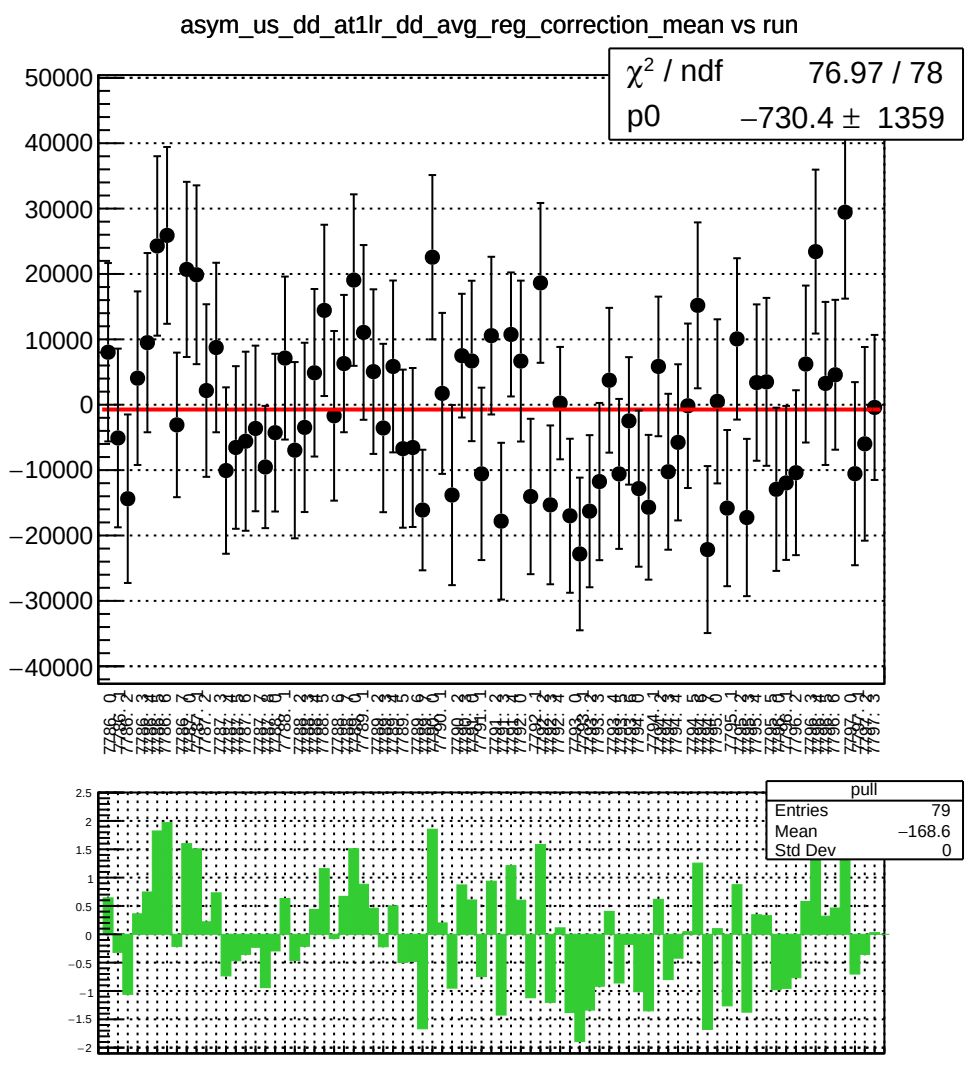

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.277e+04 / 78
p0 162.8 ± 0.132
220
200
180
160
140

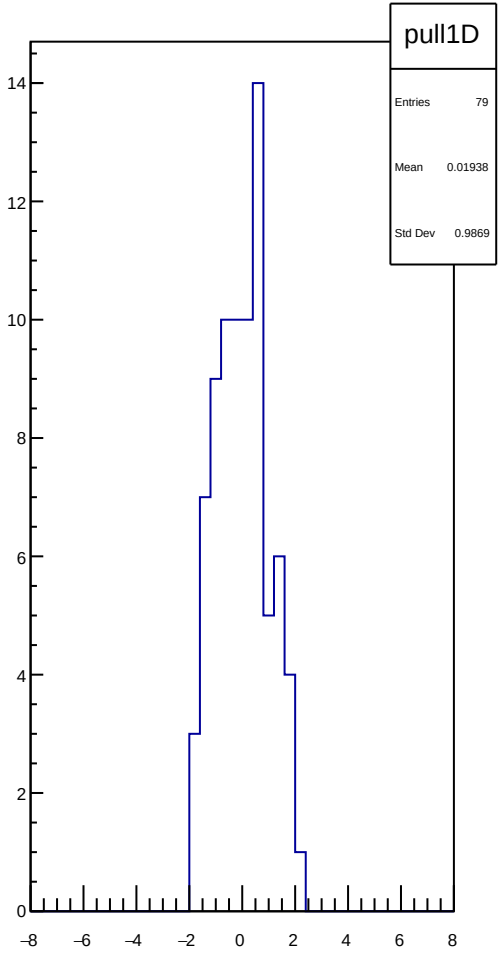

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.29 / 78
p0 2.192e−13 ± 2.715e−13
20
10
0
−10
−20
−30
pull
Entries 79
Mean 23.63
Std Dev 22
2
1
0
−1
−2
pull1D
Entries 79
Mean −0.1778
Std Dev 0.8627
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

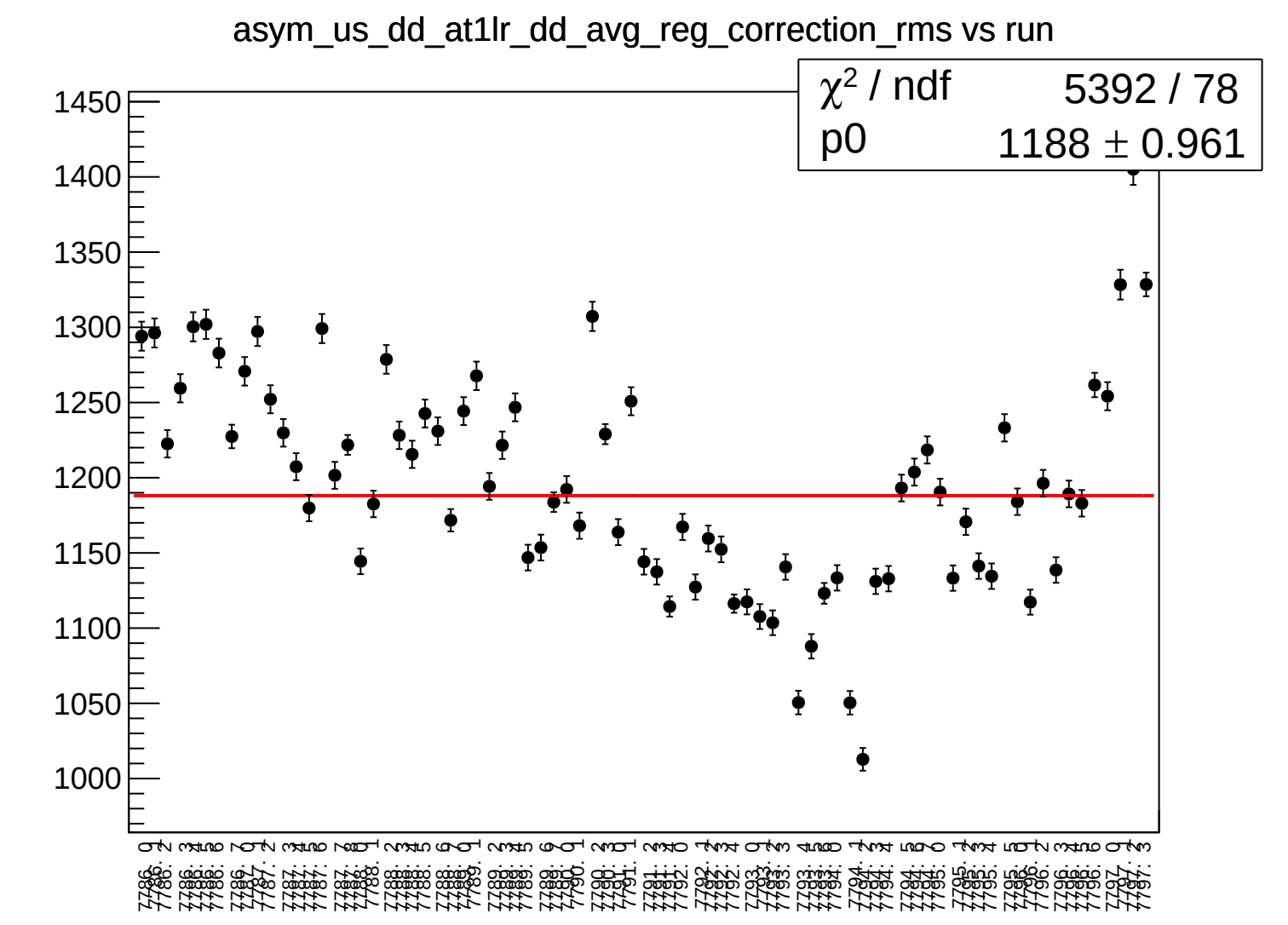

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.121e+05 / 78
p0 1.631e−10 ± 1.92e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

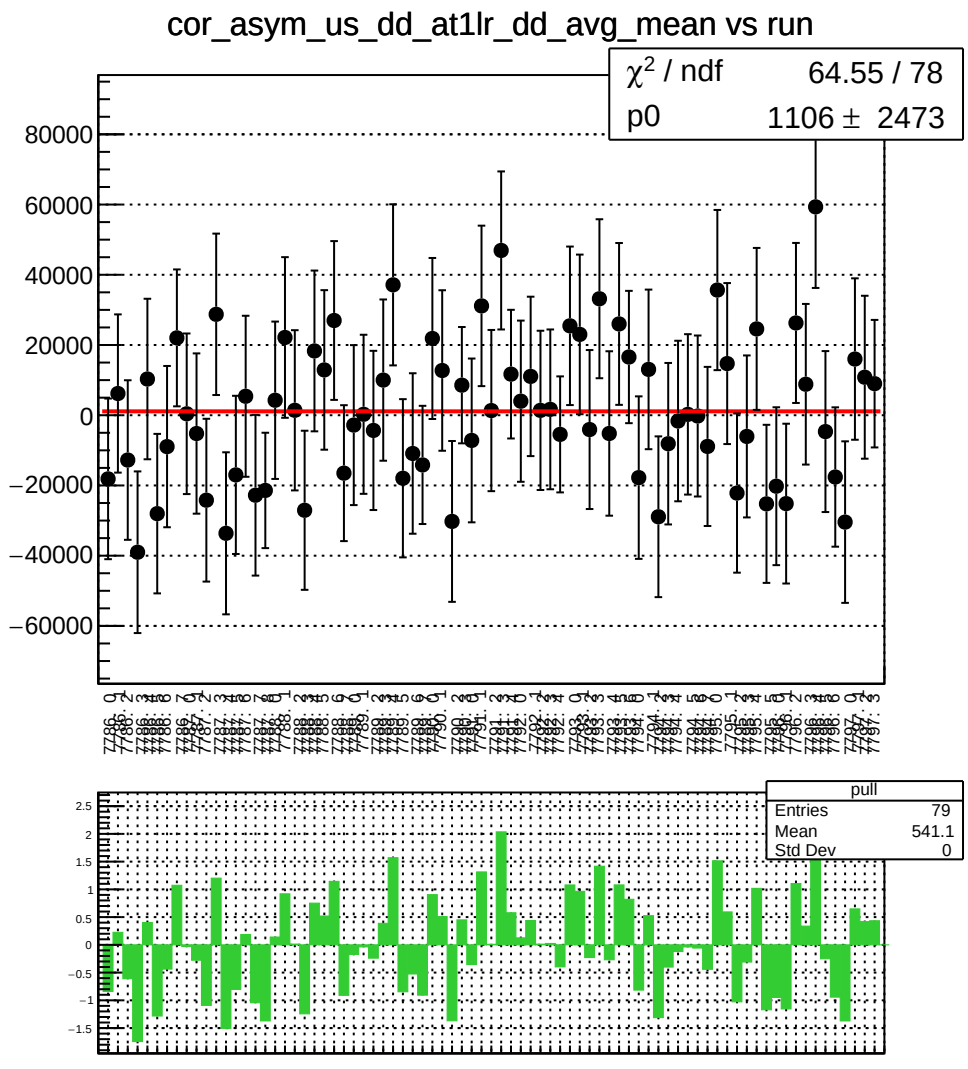

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 64.55 / 78
p0 1106 ± 2473
pull
Entries 79
Mean 541.1
Std Dev 0
pull1D
Entries 79
Mean 0.006656
Std Dev 0.9039

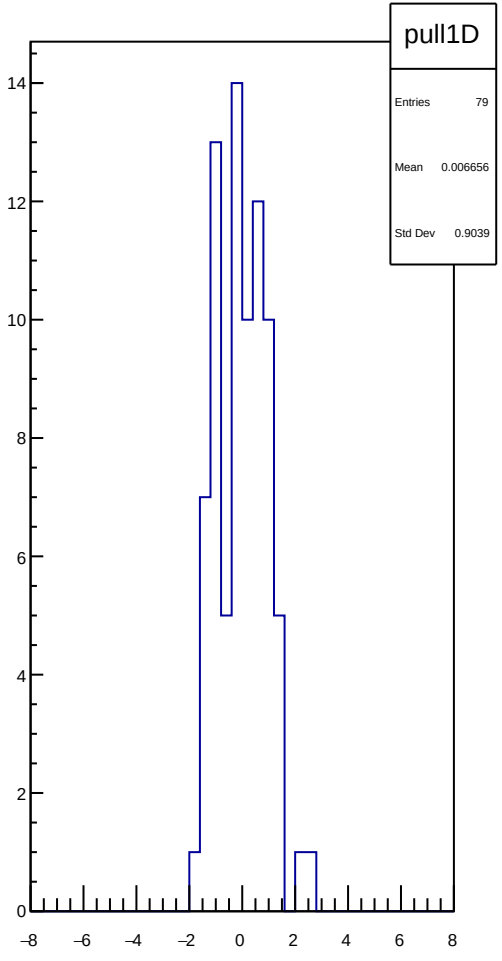

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 100.7 / 78
p0 2166 ± 1.749
2240
2220
2200
2180
2160
2140
2120
2100

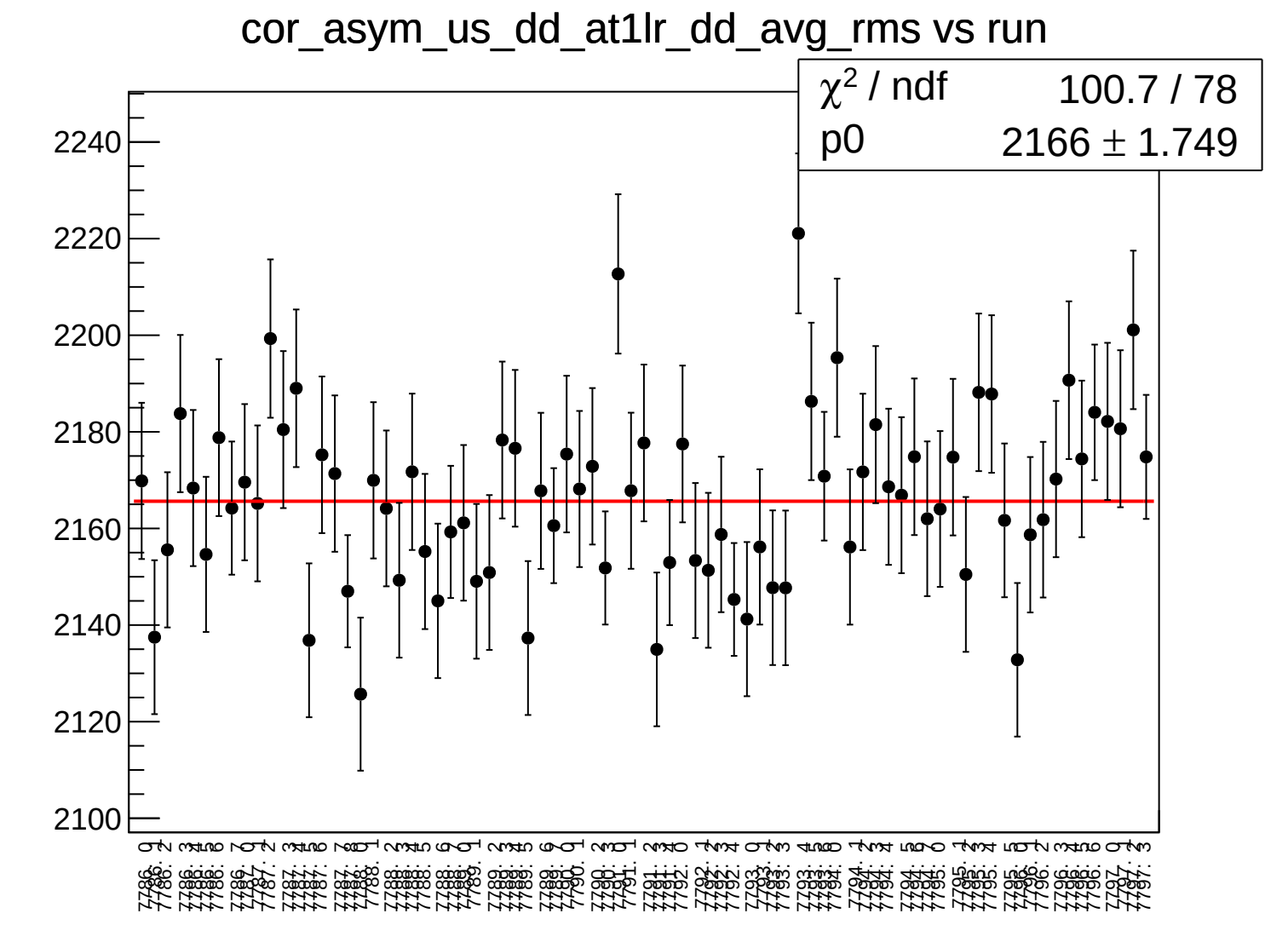

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 76.97 / 78
p0 −730.4 ± 1359
pull
Entries 79
Mean −168.6
Std Dev 0

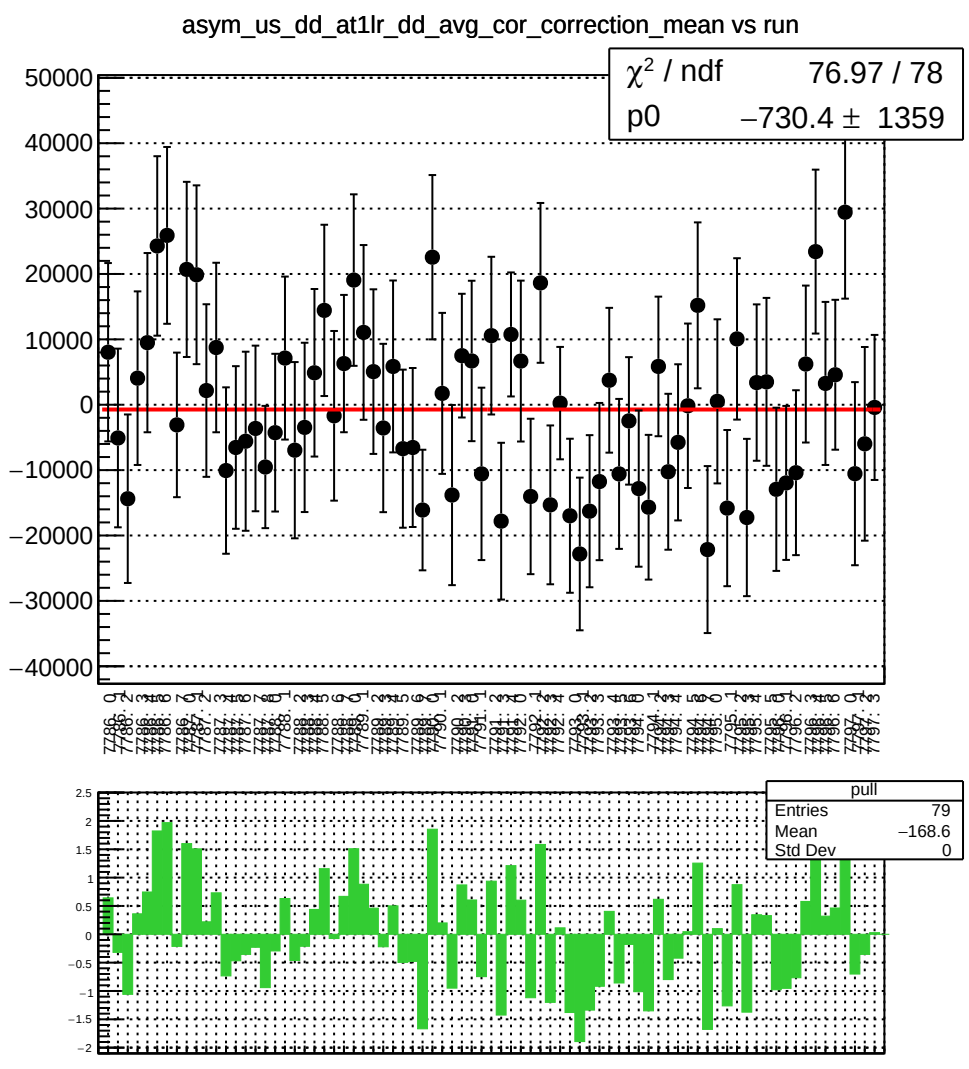

pull1D
Entries 79
Mean 0.01938
Std Dev 0.9869

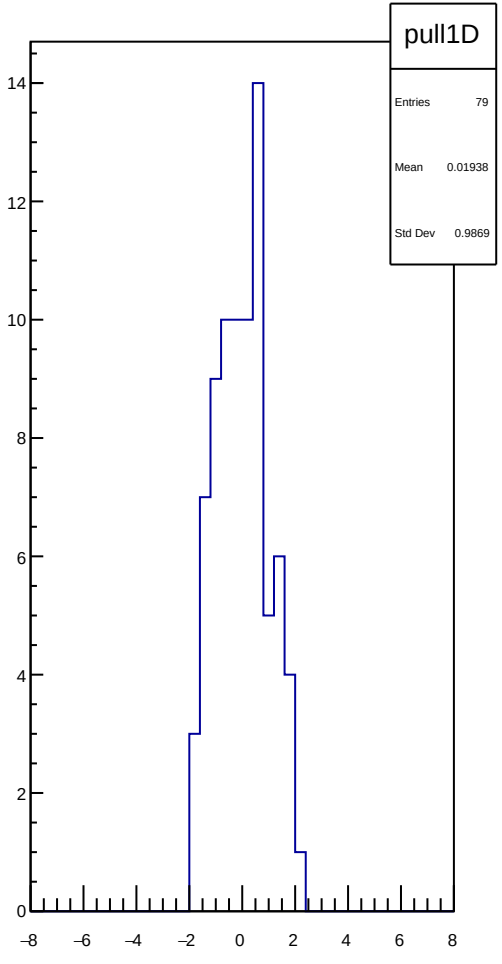

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 5392 / 78
p0 1188 ± 0.961
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000

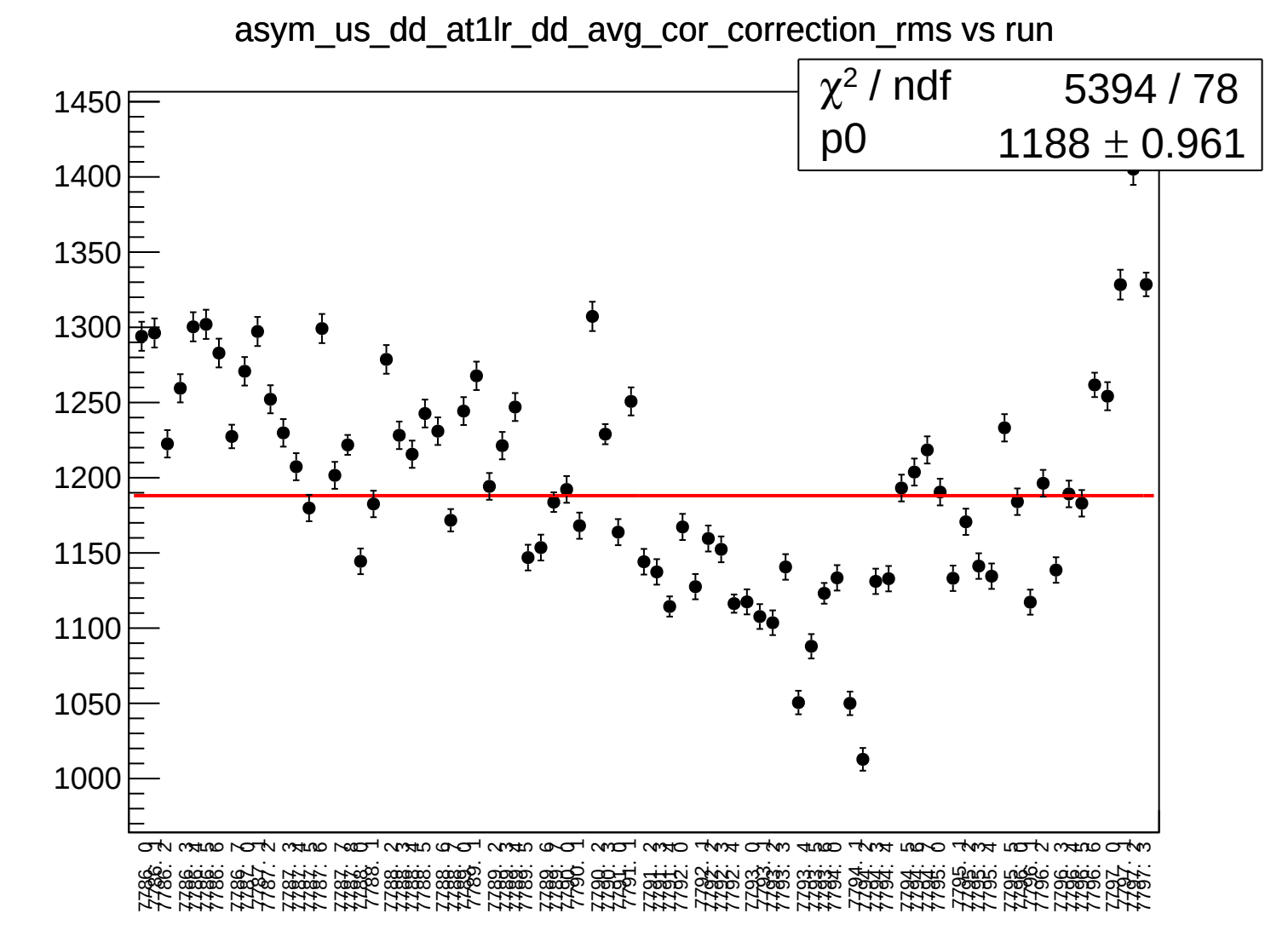

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 64.55 / 78
p0 1106 ± 2473
pull
Entries 79
Mean 541.1
Std Dev 0

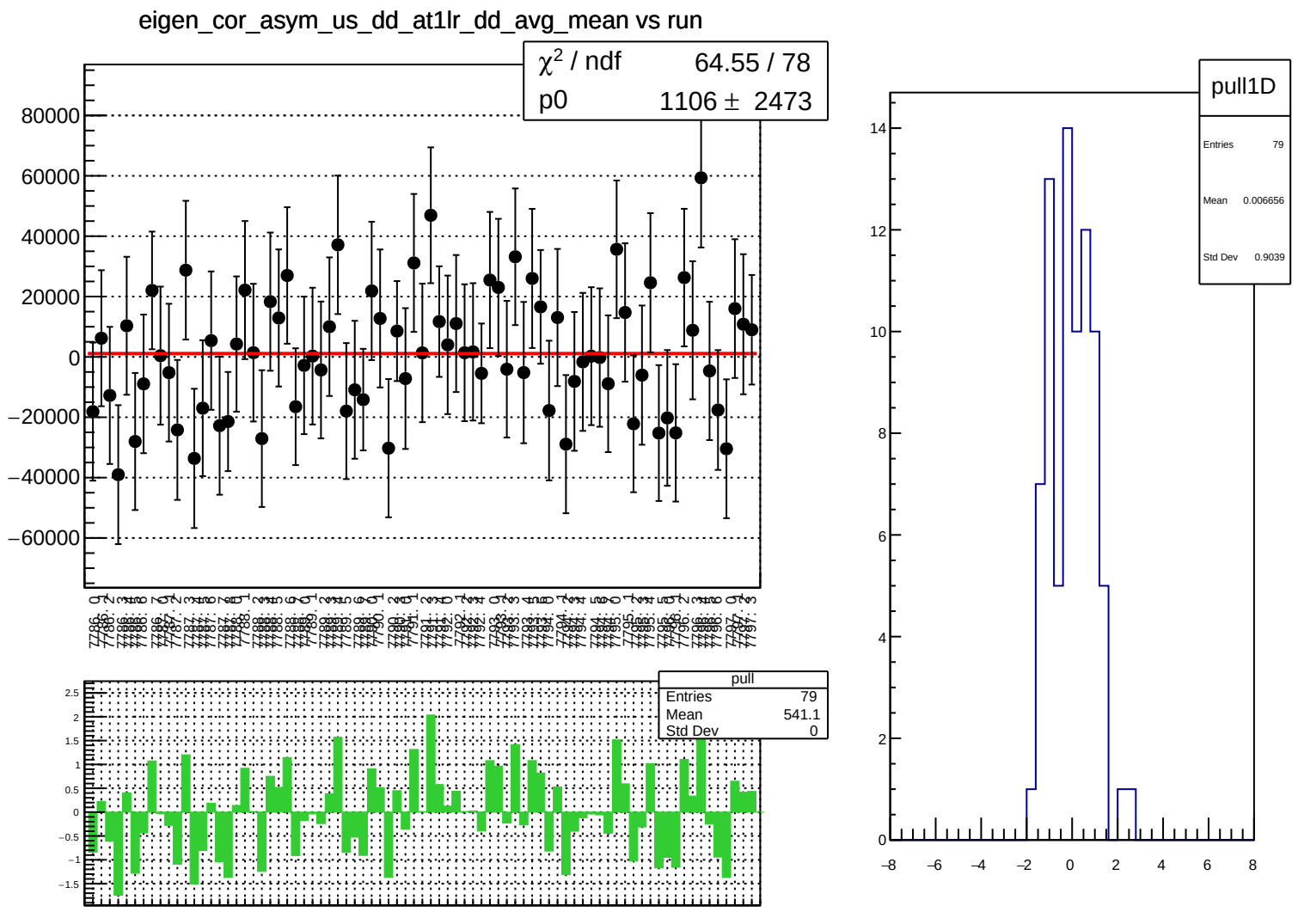

pull1D
Entries 79
Mean 0.006656
Std Dev 0.9039

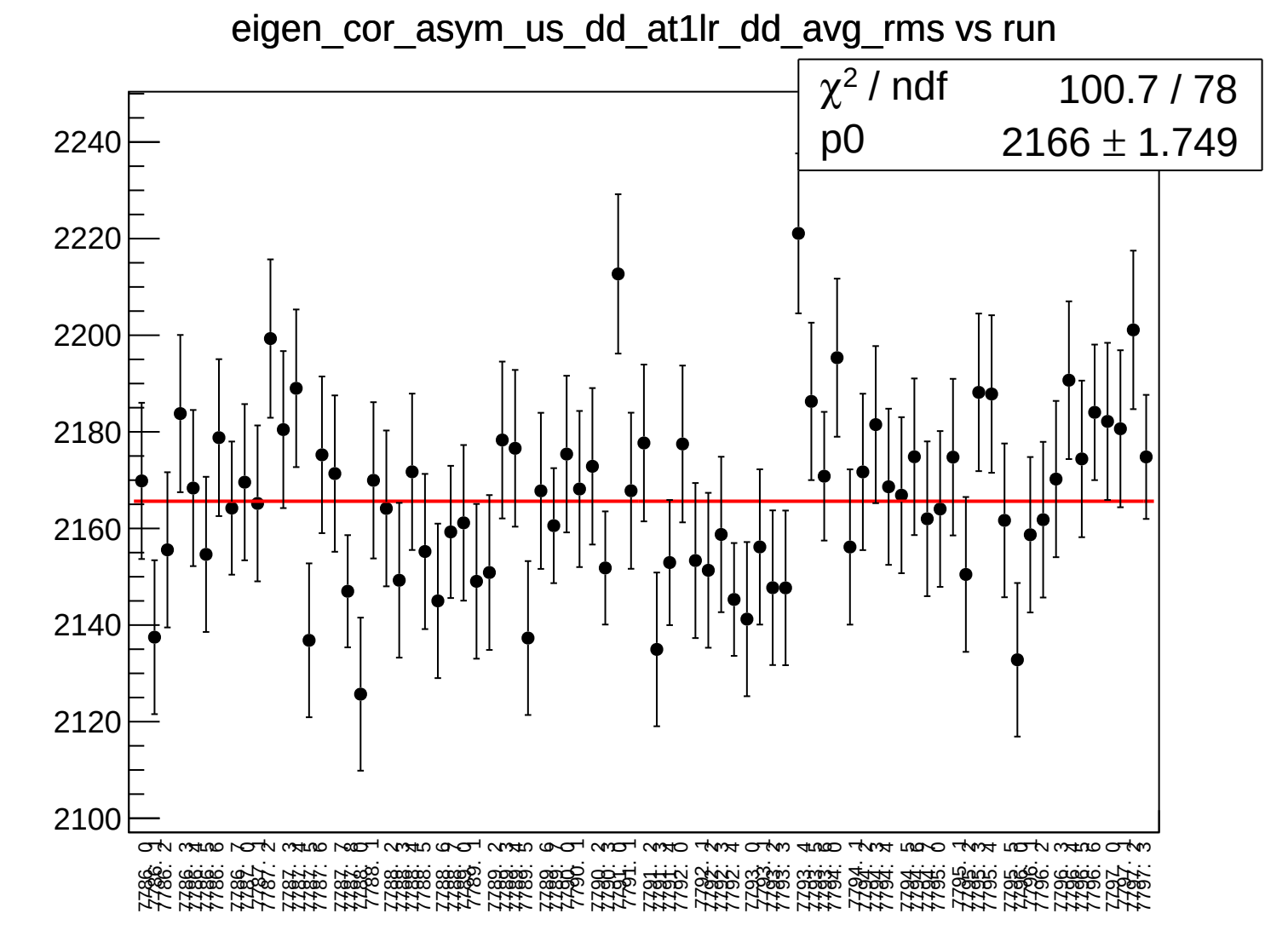

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 100.7 / 78
p0 2166 ± 1.749
2240
2220
2200
2180
2160
2140
2120
2100

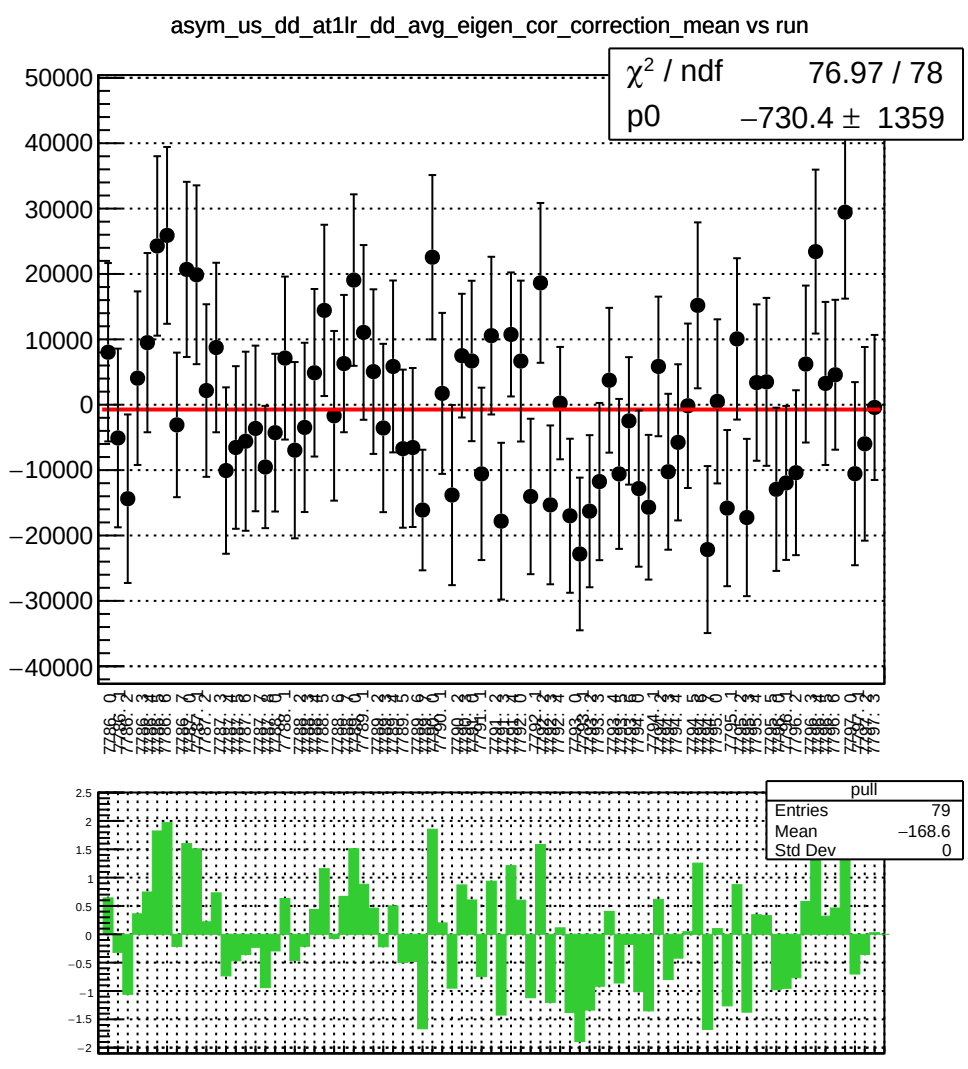

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 76.97 / 78
p0 −730.4 ± 1359
pull
Entries 79
Mean −168.6
Std Dev 0

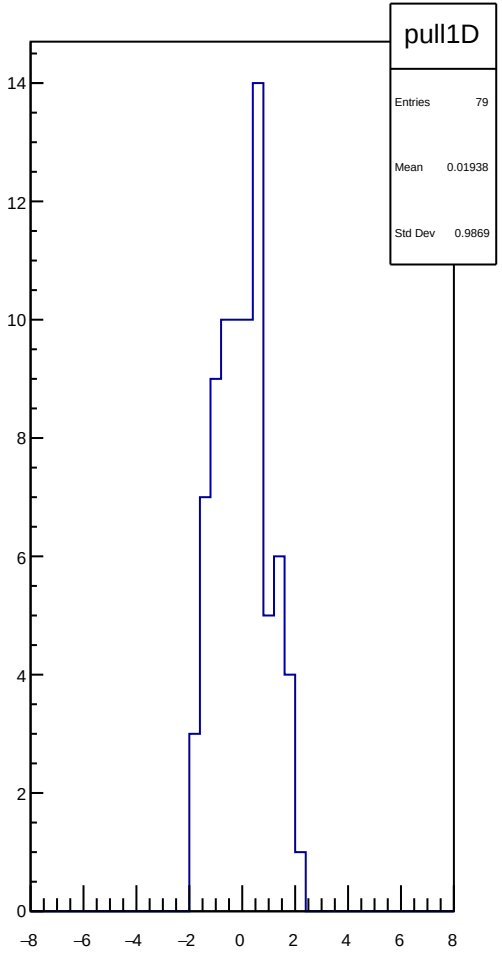

pull1D
Entries 79
Mean 0.01938
Std Dev 0.9869

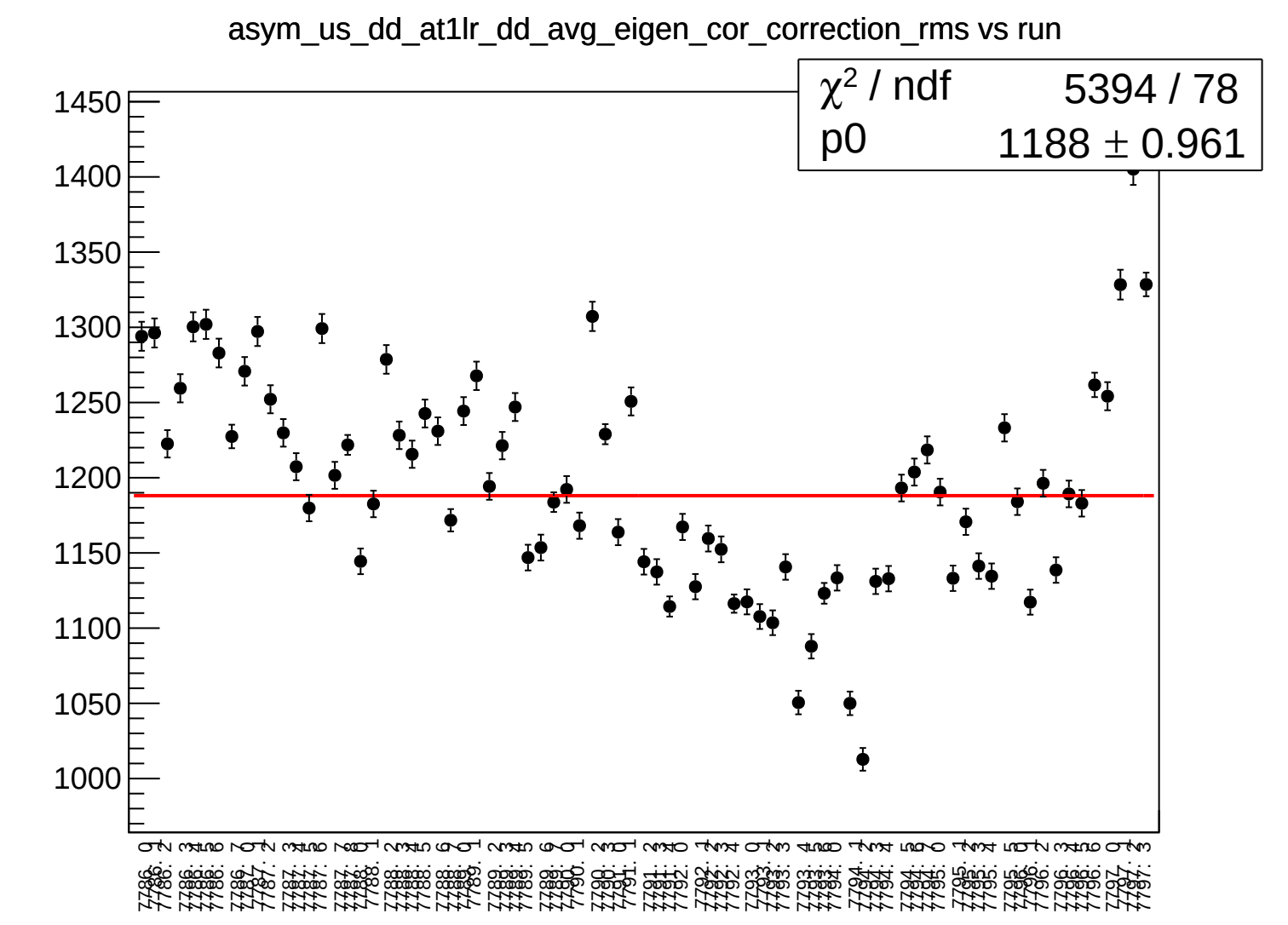

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 5394 / 78
p0 1188 ± 0.961
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000

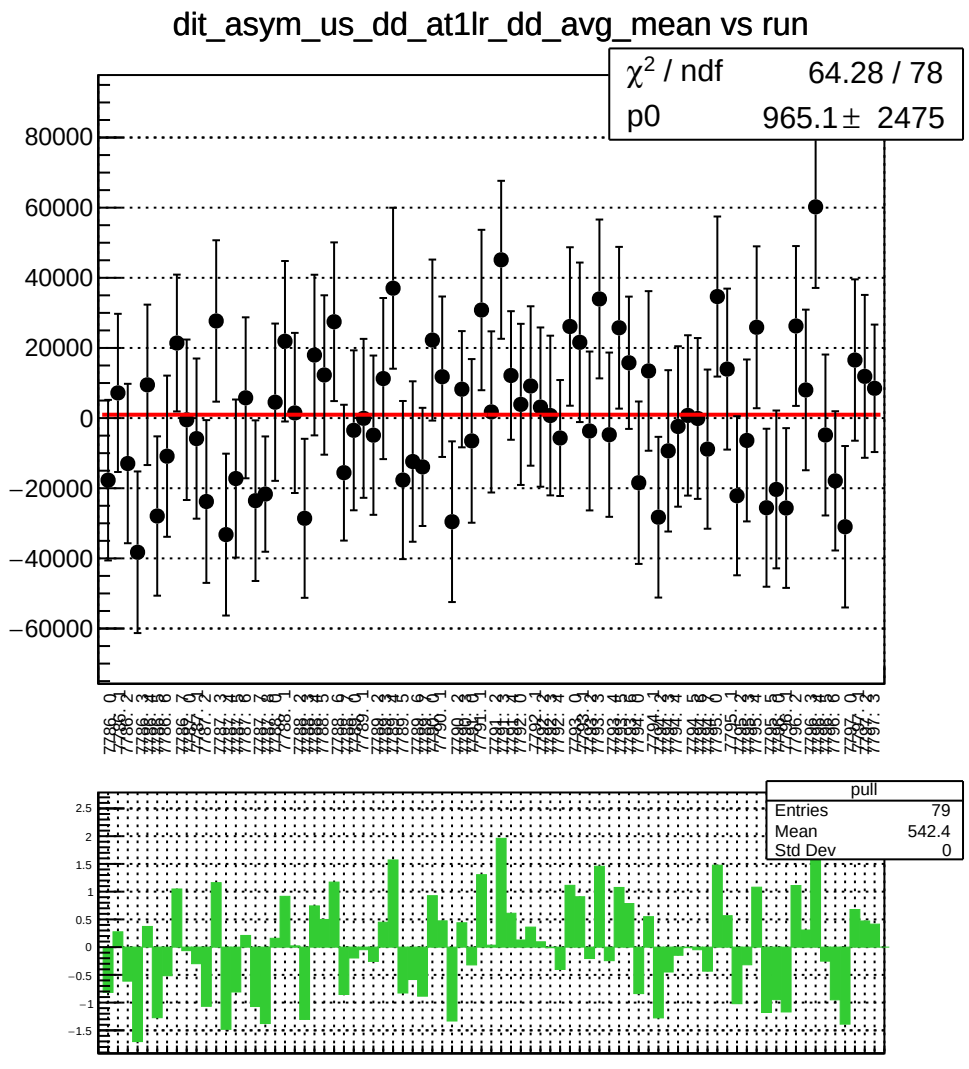

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 64.55 / 78
p0 1106 ± 2473
pull
Entries 79
Mean 541.1
Std Dev 0
pull1D
Entries 79
Mean 0.006656
Std Dev 0.9039

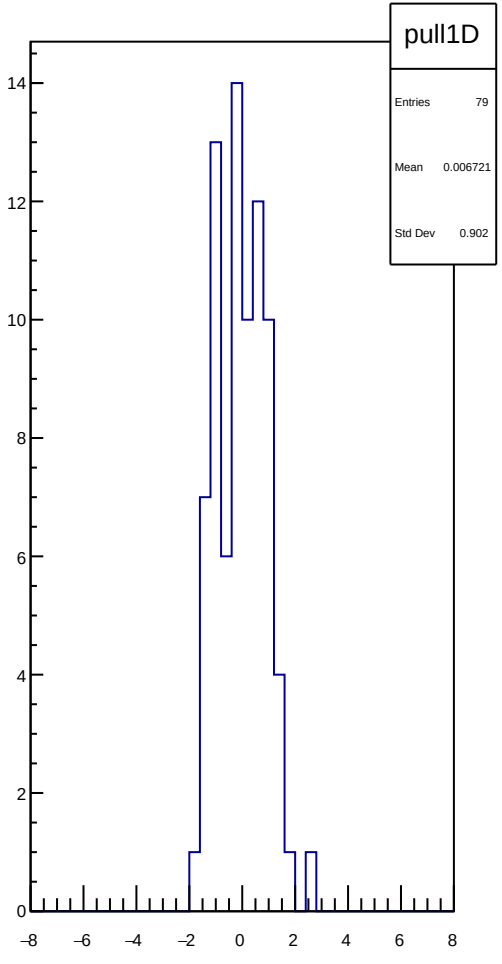

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 100.7 / 78
p0 2166 ± 1.749
2240
2220
2200
2180
2160
2140
2120
2100

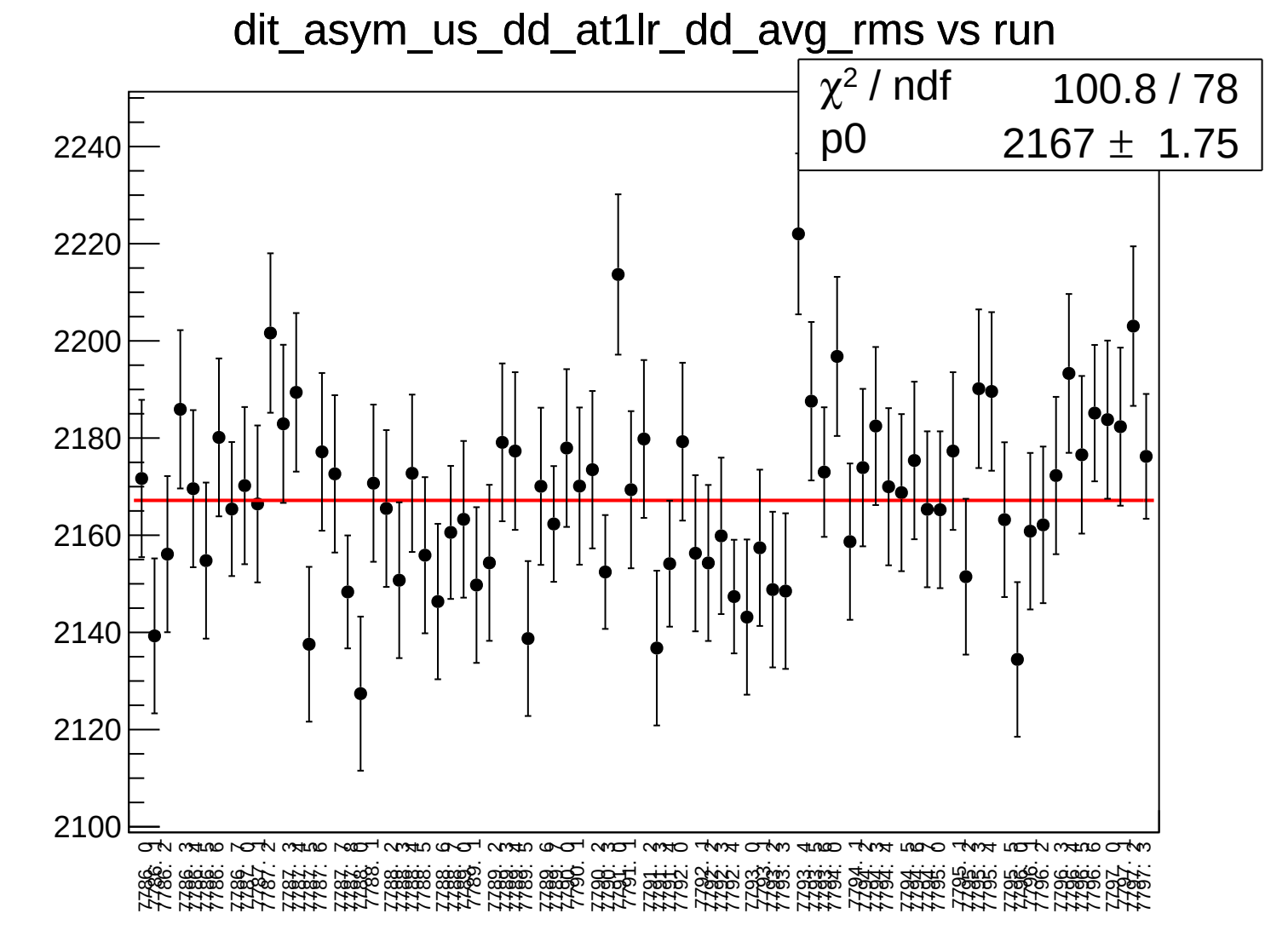

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.97 / 78
p0 −730.4 ± 1359
pull
Entries 79
Mean −168.6
Std Dev 0

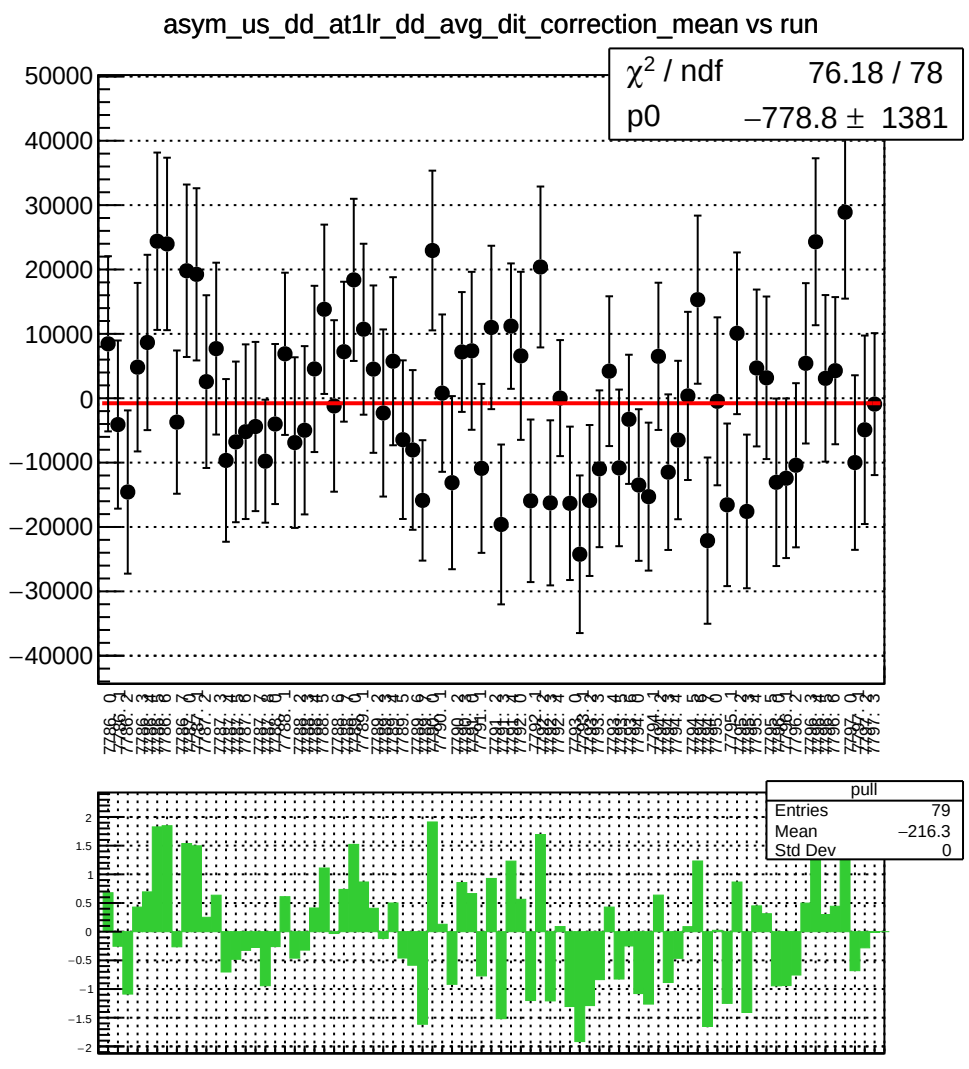

pull1D
Entries 79
Mean 0.01938
Std Dev 0.9869

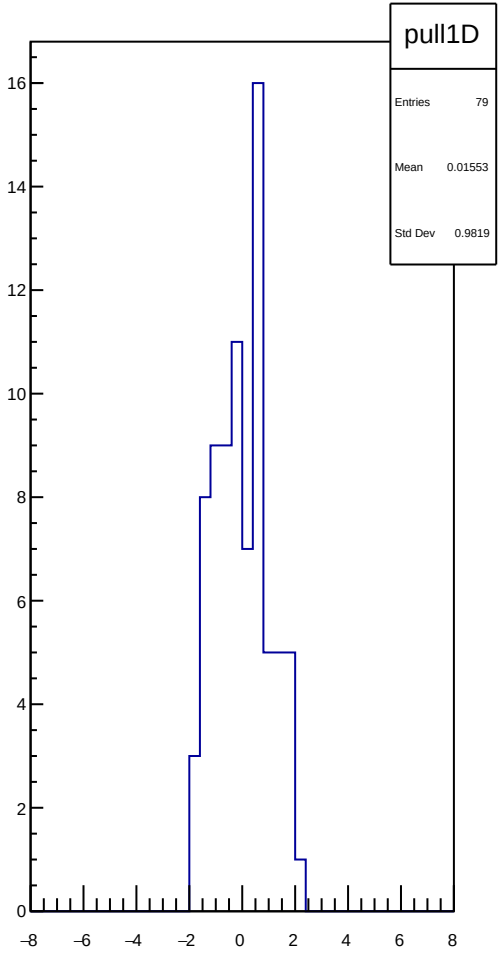

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5394 / 78
p0 1188 ± 0.961
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000

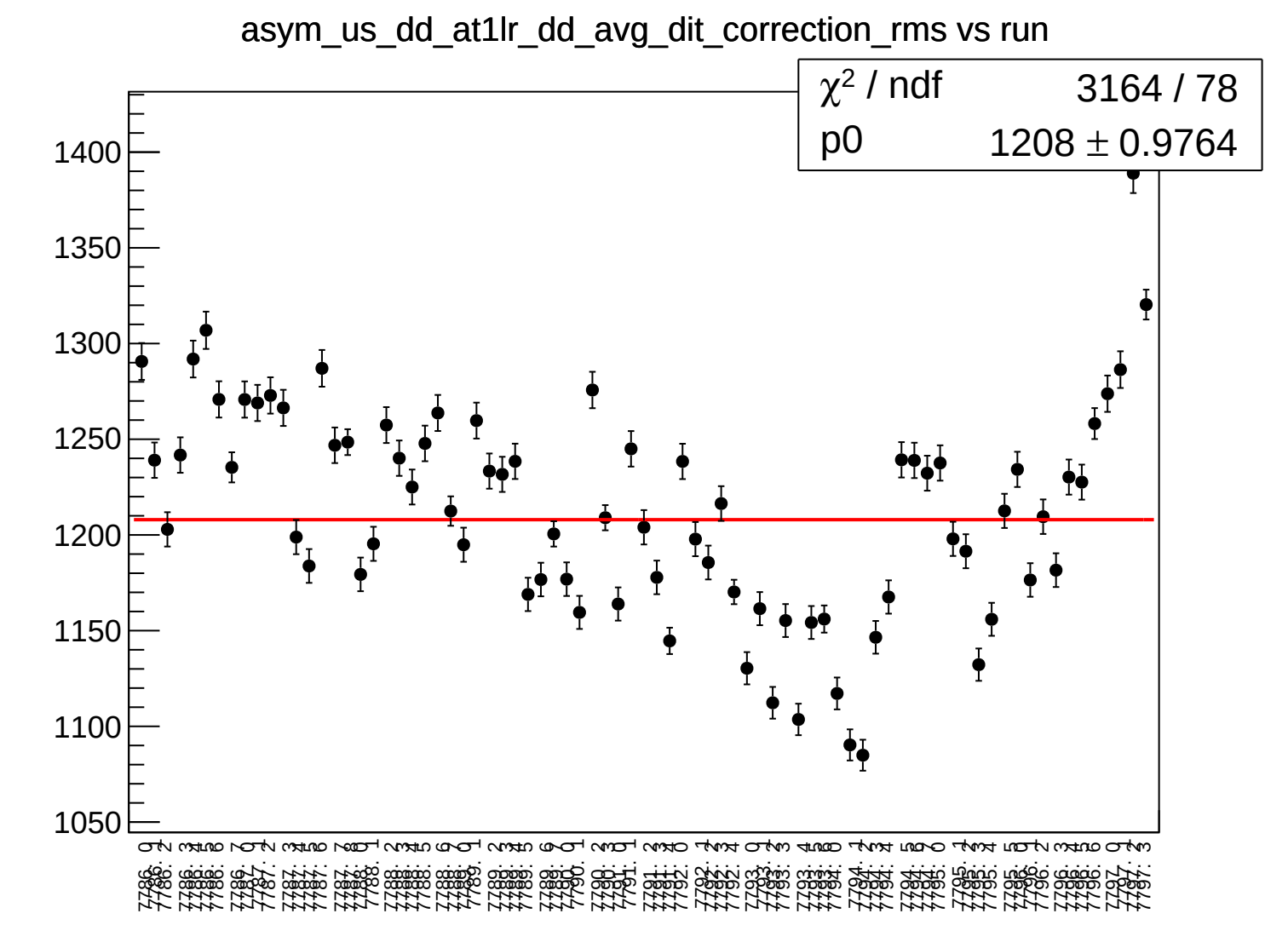

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 64.28 / 78
p0 965.1 ± 2475
pull
Entries 79
Mean 542.4
Std Dev 0

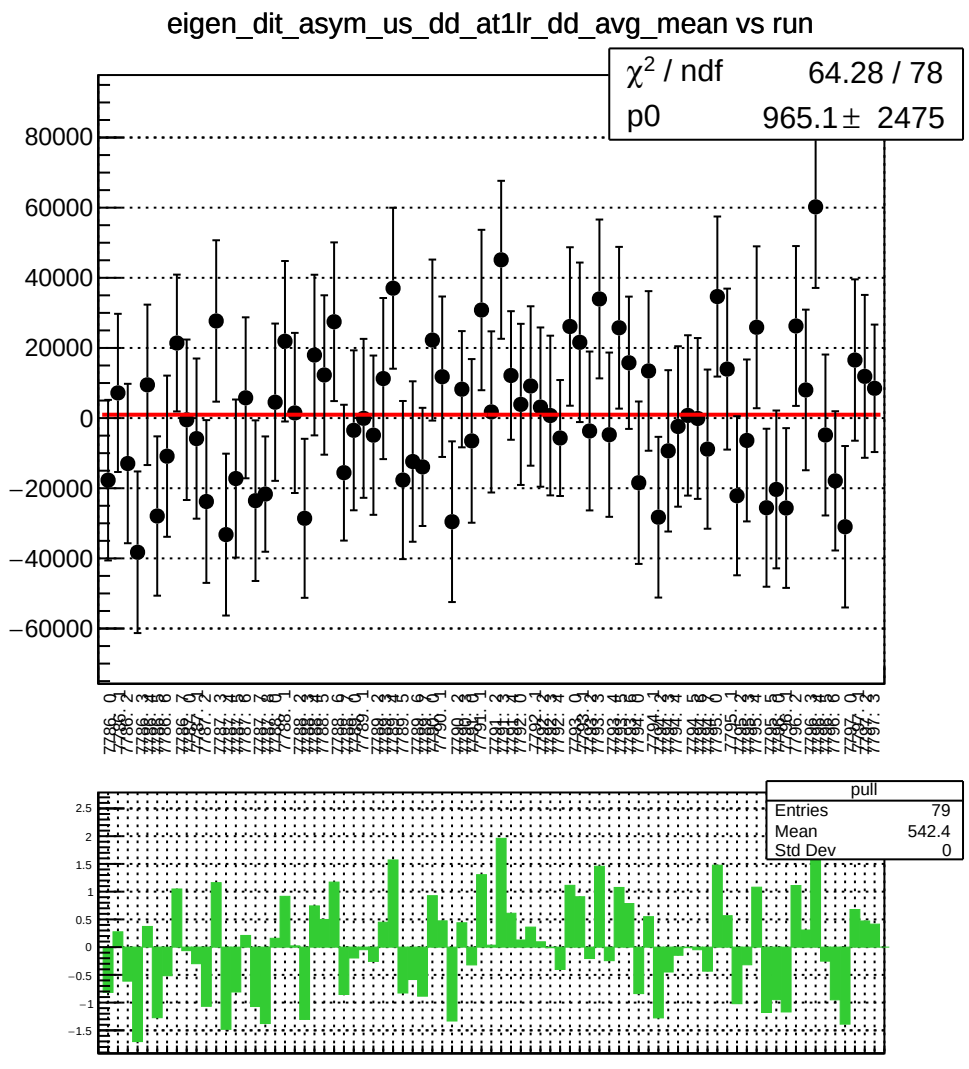

pull1D
Entries 79
Mean 0.006721
Std Dev 0.902

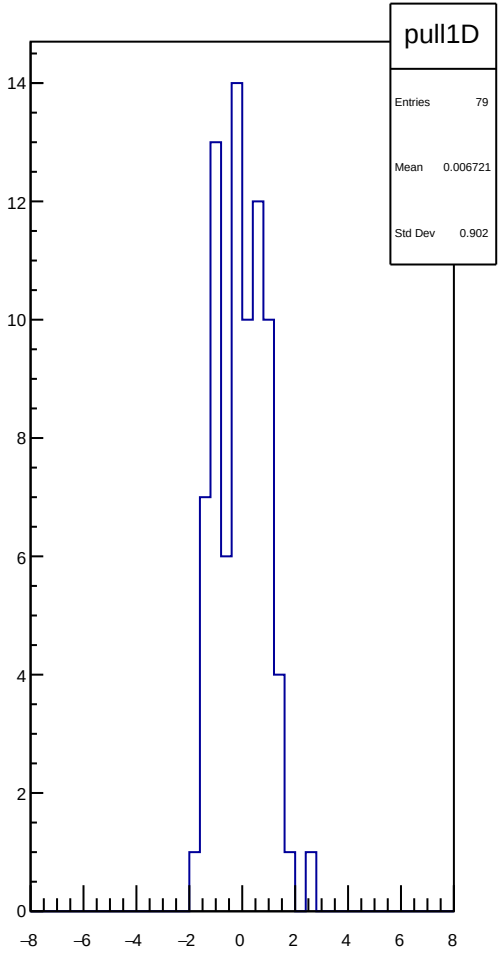

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 100.8 / 78
p0 2167 ± 1.75
2240
2220
2200
2180
2160
2140
2120
2100

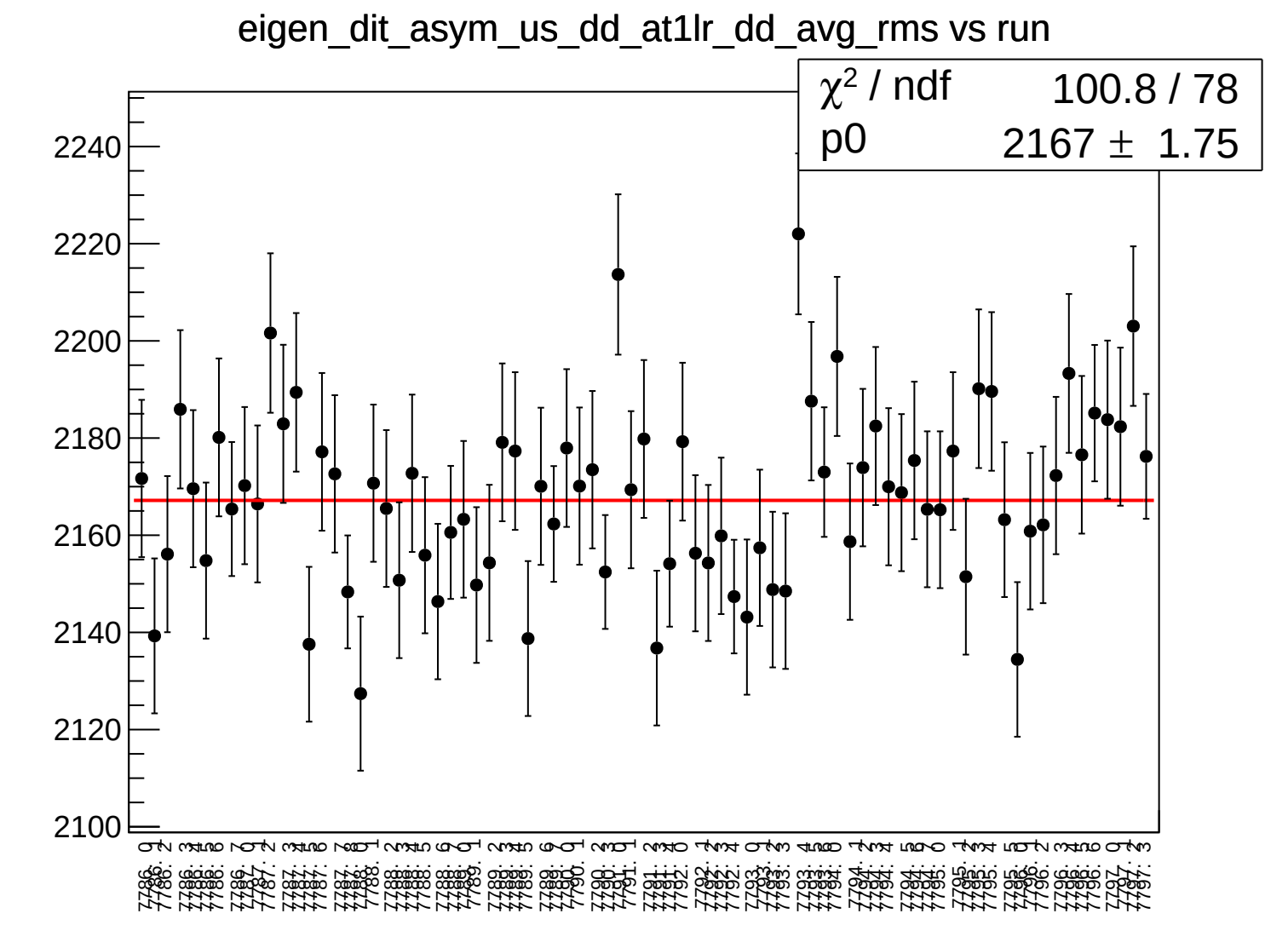

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 76.18 / 78
p0 −778.8 ± 1381
pull
Entries 79
Mean −216.3
Std Dev 0

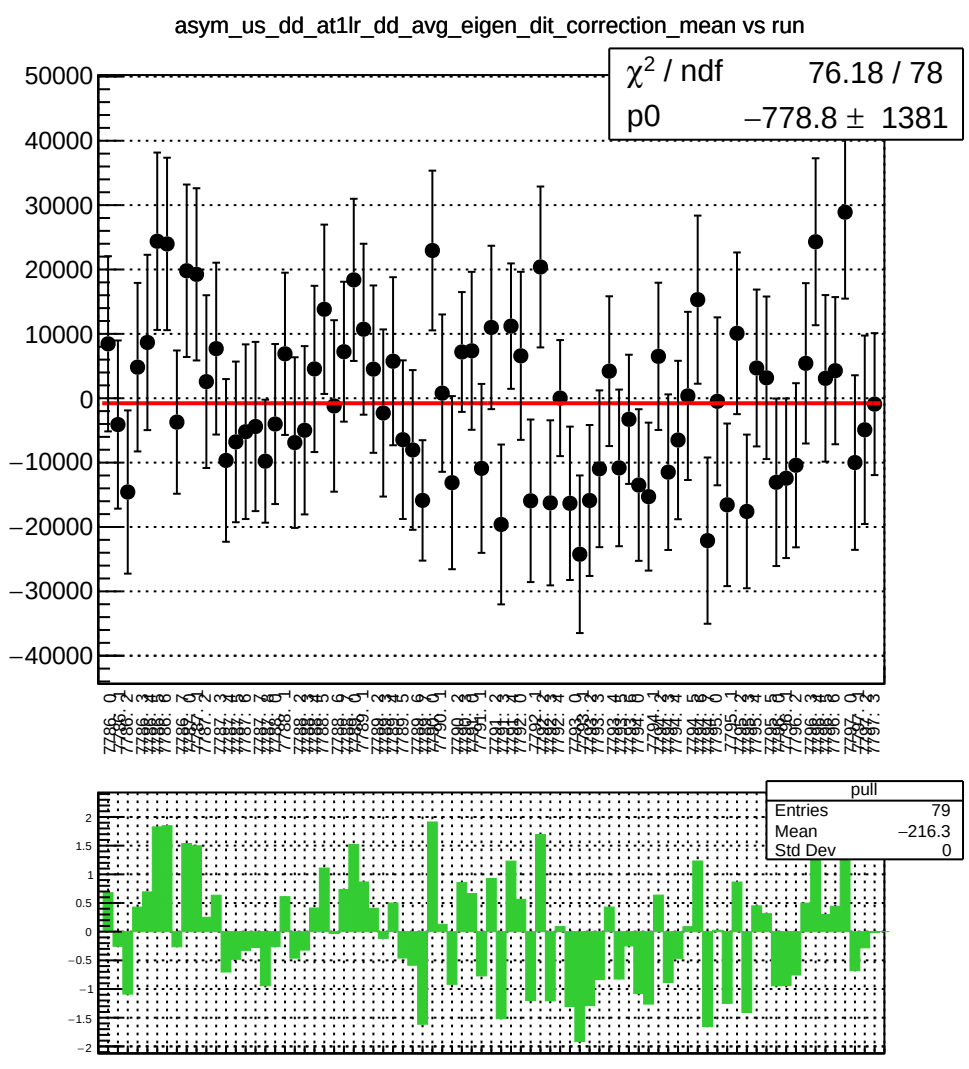

pull1D
Entries 79
Mean 0.01553
Std Dev 0.9819

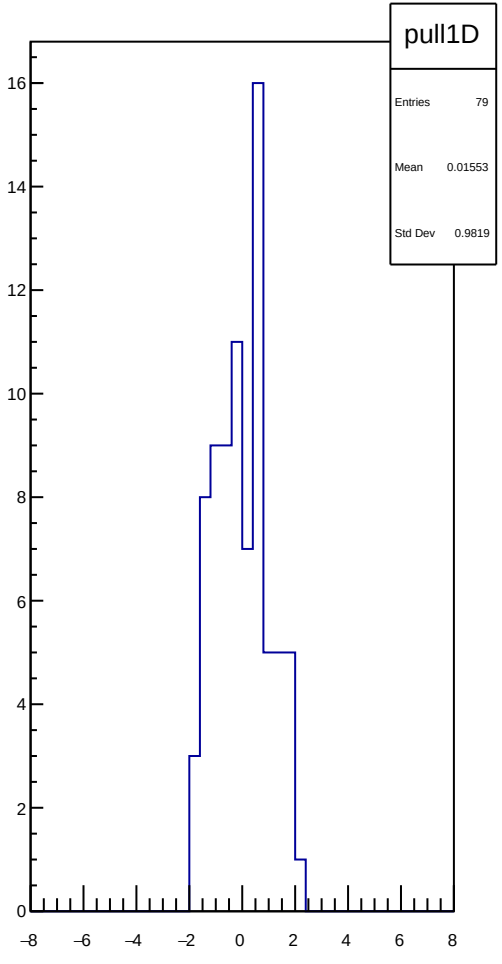

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3164 / 78
p0 1208 ± 0.9764
1400
1350
1300
1250
1200
1150
1100
1050

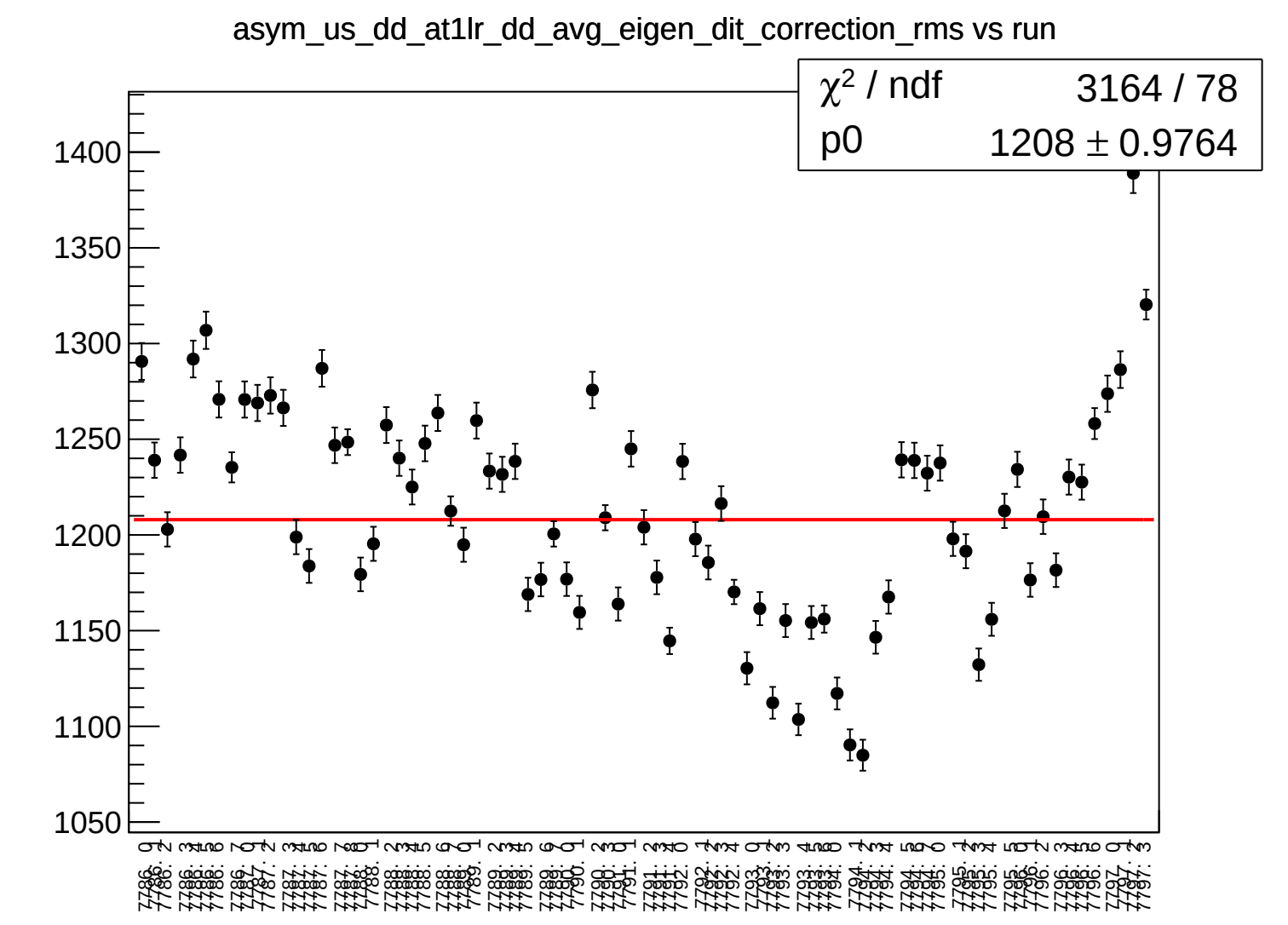

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 64.28 / 78
p0 965.1 ± 2475
pull
Entries 79
Mean 542.4
Std Dev 0

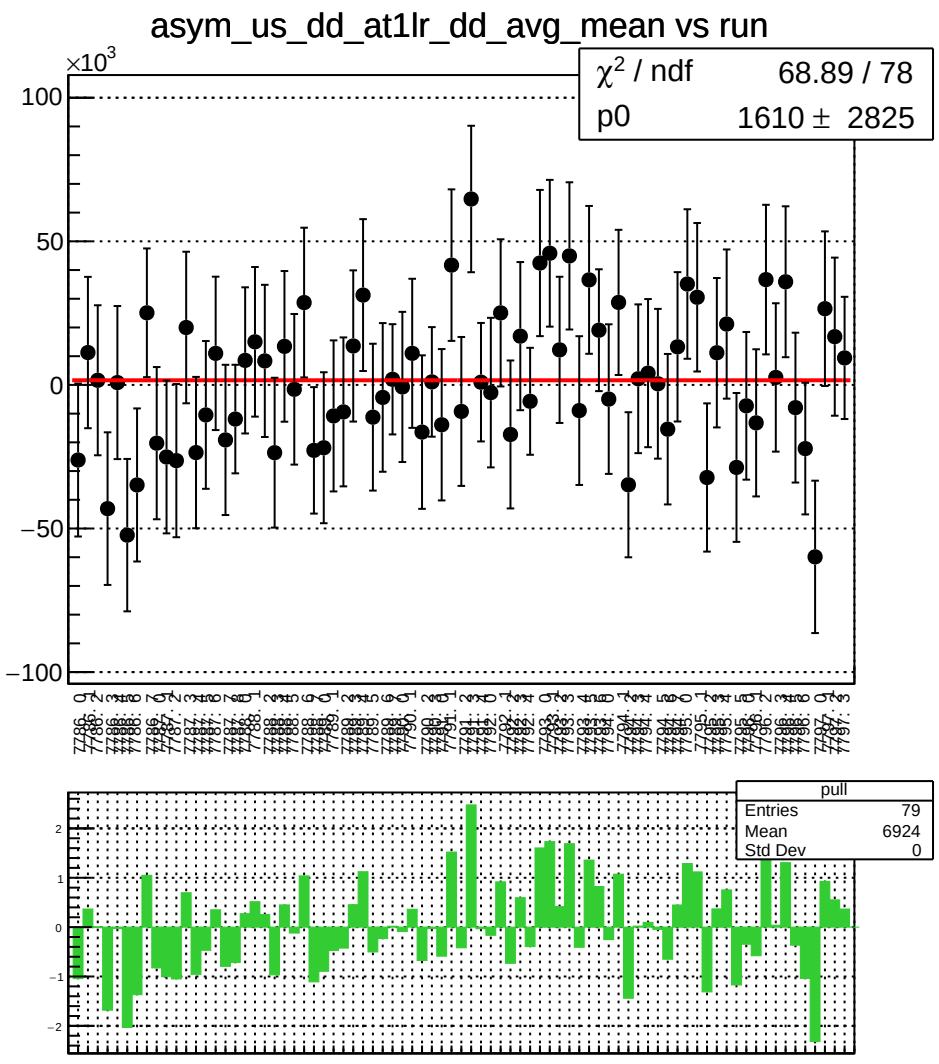

pull1D
Entries 79
Mean 0.006721
Std Dev 0.902

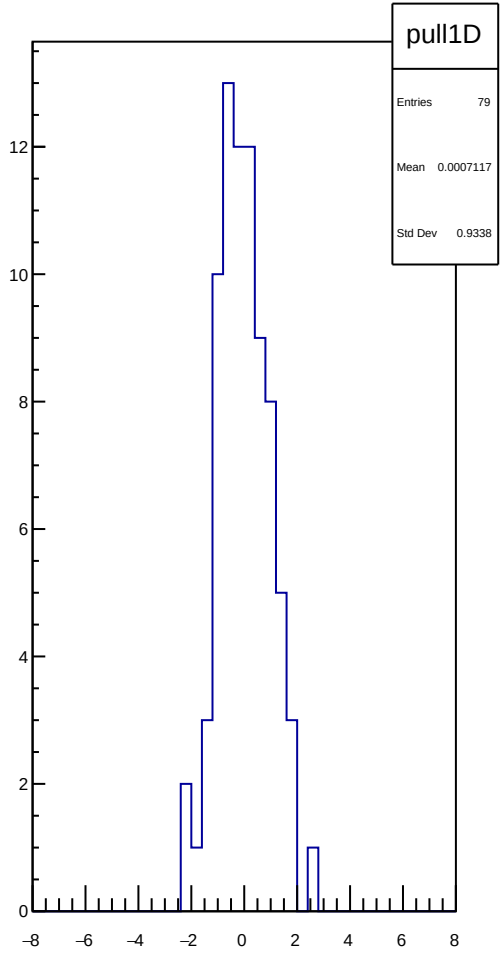

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 100.8 / 78
p0 2167 ± 1.75
2240
2220
2200
2180
2160
2140
2120
2100

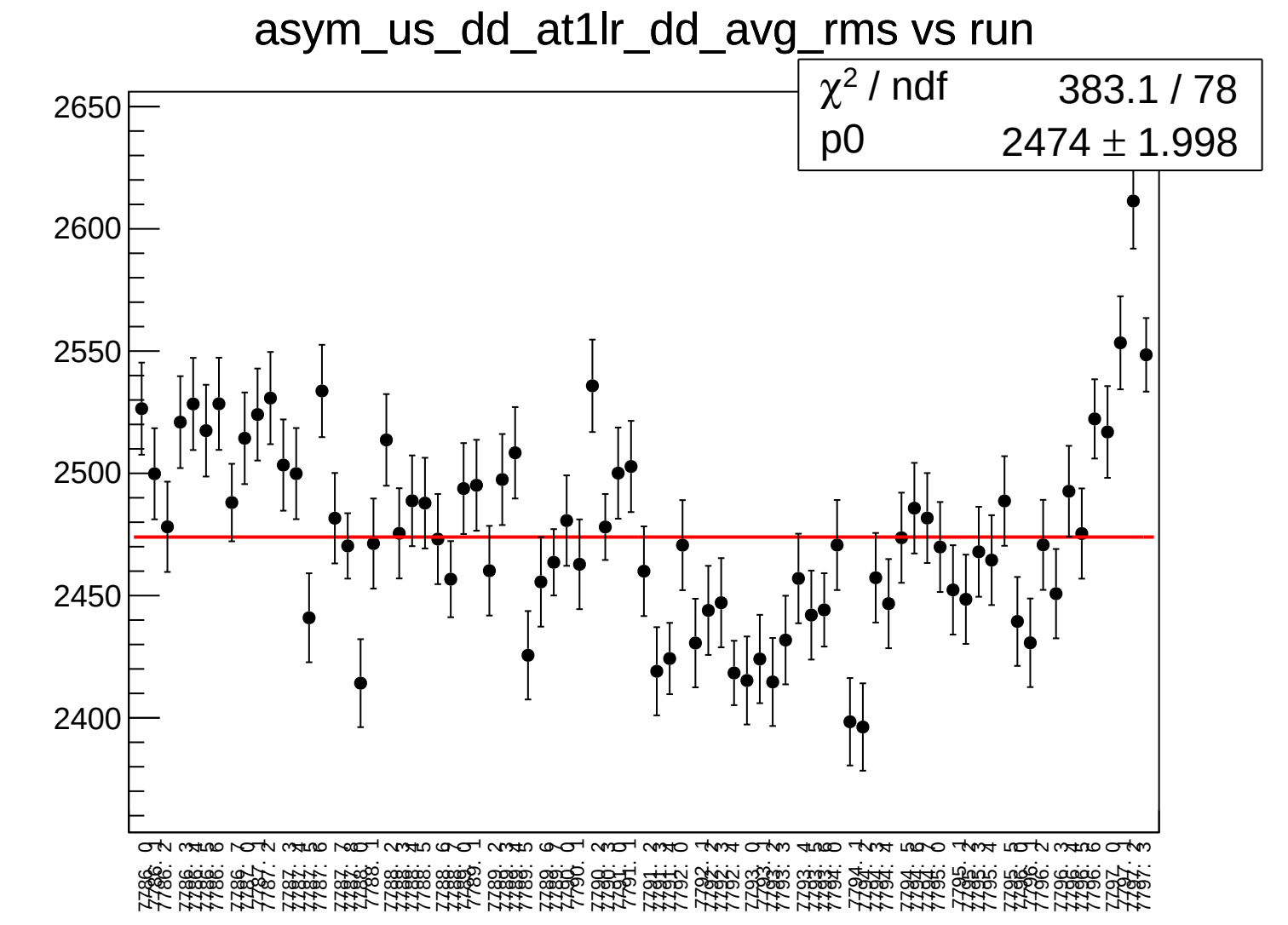

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.18 / 78
p0 −778.8 ± 1381
pull
Entries 79
Mean −216.3
Std Dev 0

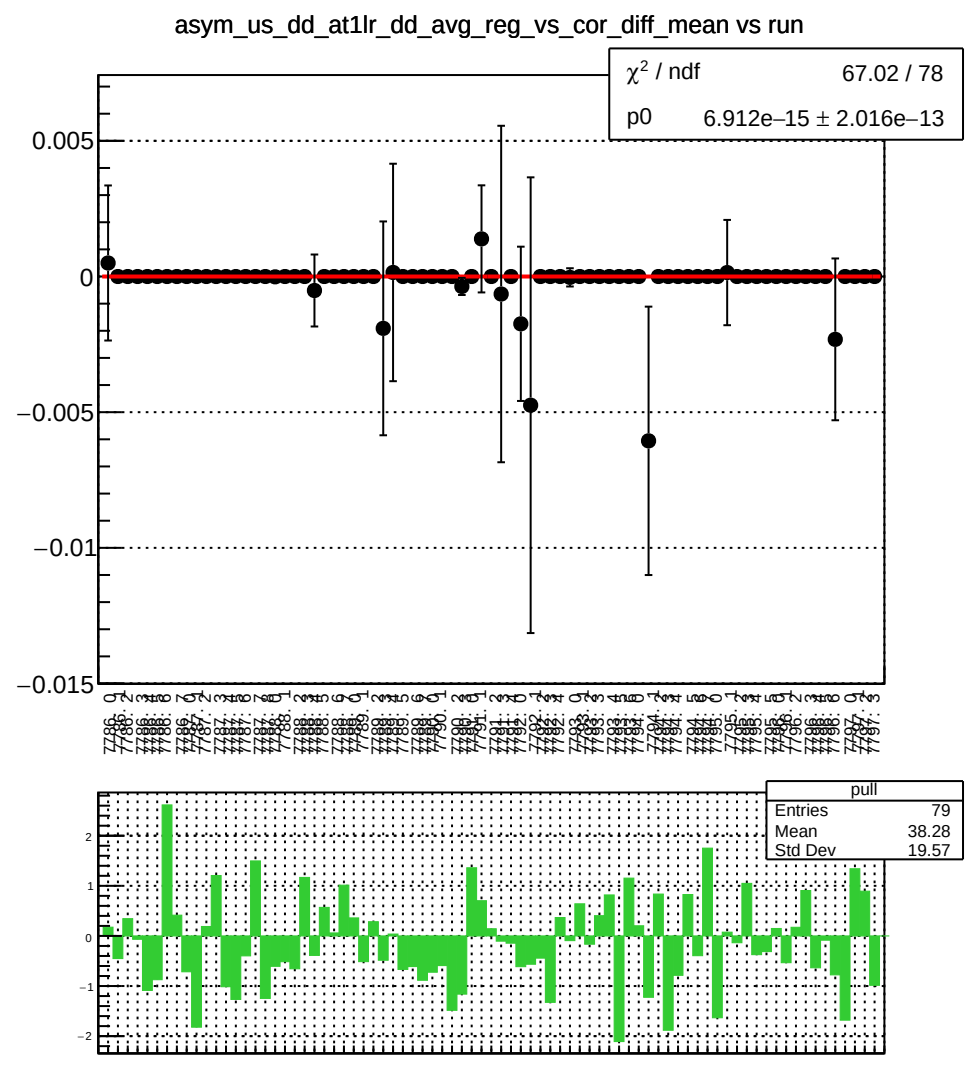

pull1D
Entries 79
Mean 0.01553
Std Dev 0.9819

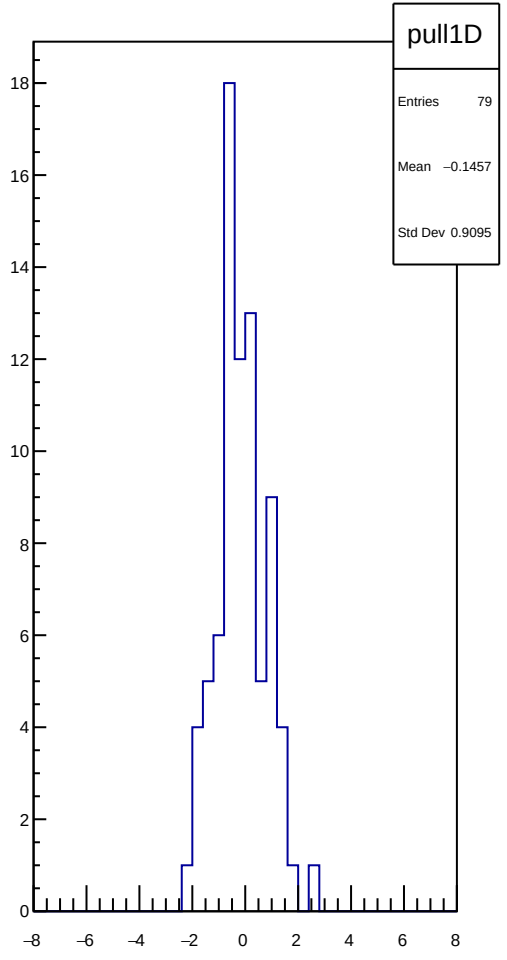

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3164 / 78
p0 1208 ± 0.9764
1400
1350
1300
1250
1200
1150
1100
1050

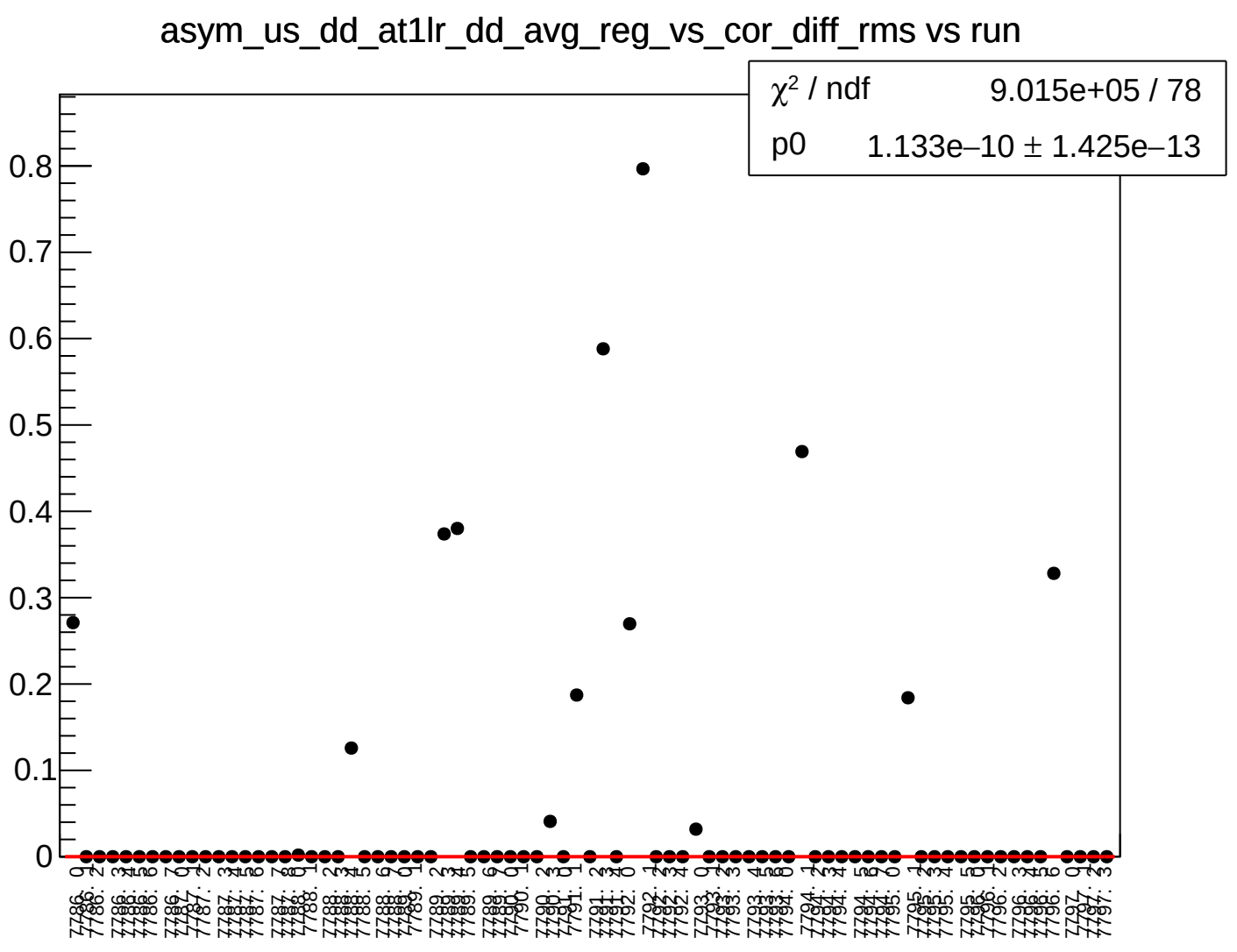

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 68.89 / 78
p0 1610 ± 2825
100
50
0
−50
−100
pull
Entries 79
Mean 6924
Std Dev 0
2
1
0
−1
−2

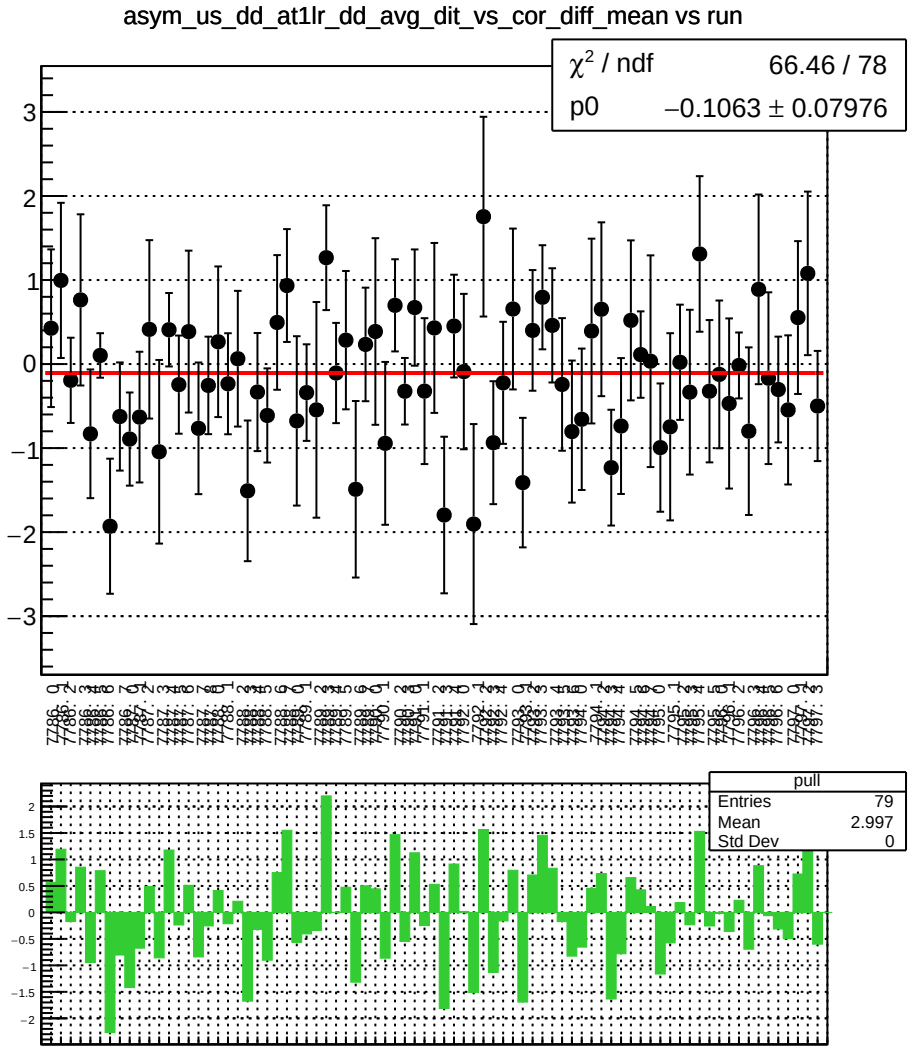

pull1D
Entries 79
Mean 0.0007117
Std Dev 0.9338
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

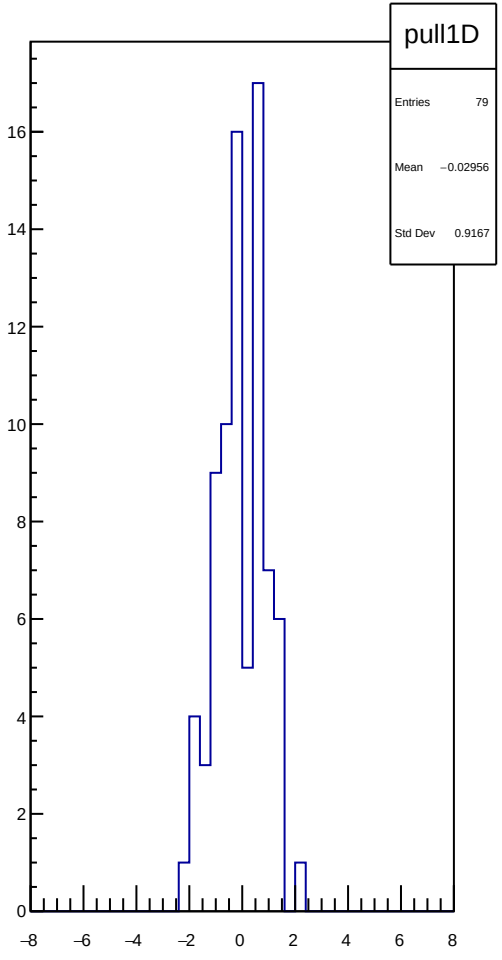

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 383.1 / 78
p0 2474 ± 1.998
2650
2600
2550
2500
2450
2400

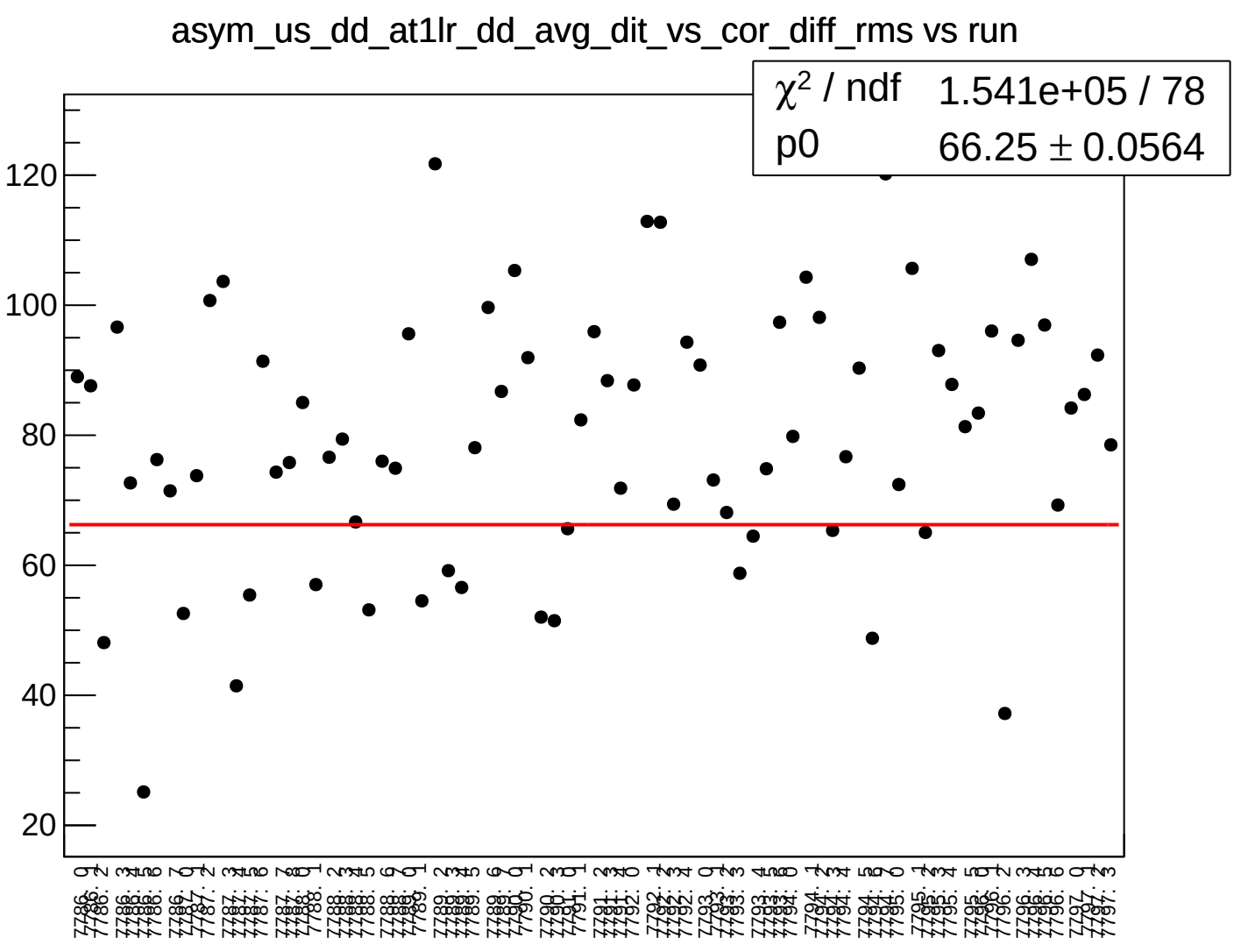

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.02 / 78
p0 6.912e−15 ± 2.016e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 79
Mean 38.28
Std Dev 19.57
2
1
0
−1
−2

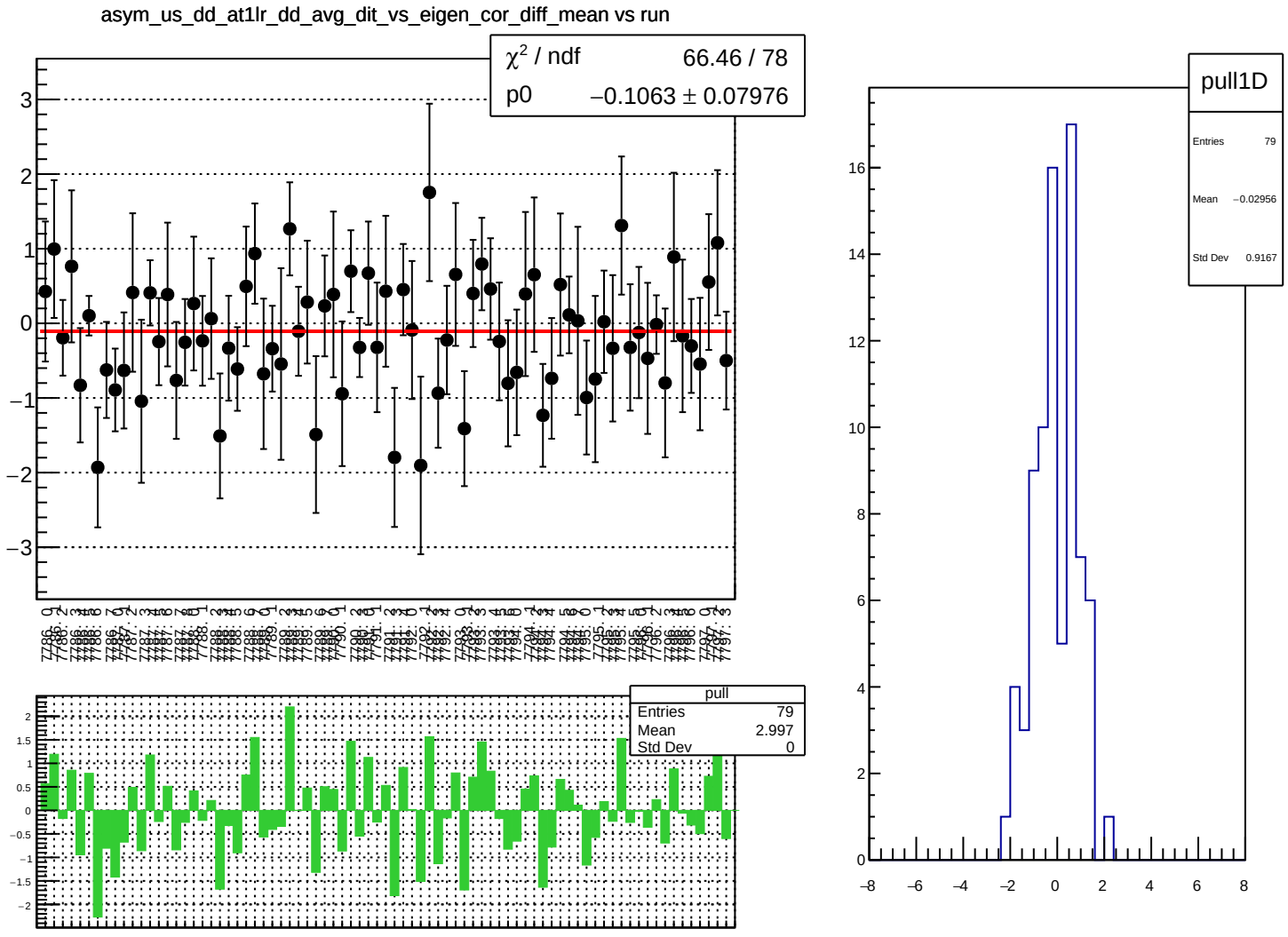

pull1D
Entries 79
Mean −0.1457
Std Dev 0.9095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

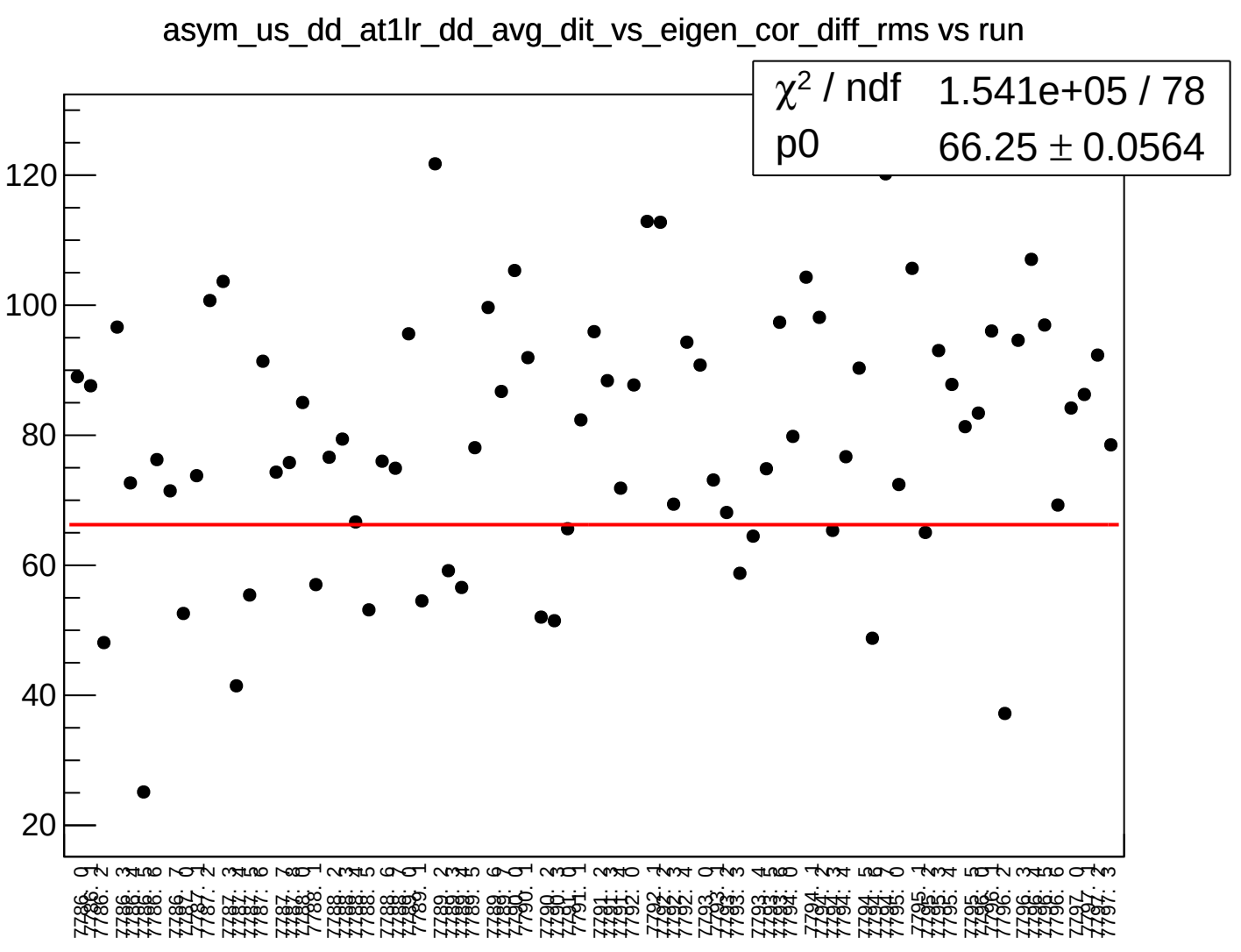

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.015e+05 / 78
p0 1.133e−10 ± 1.425e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

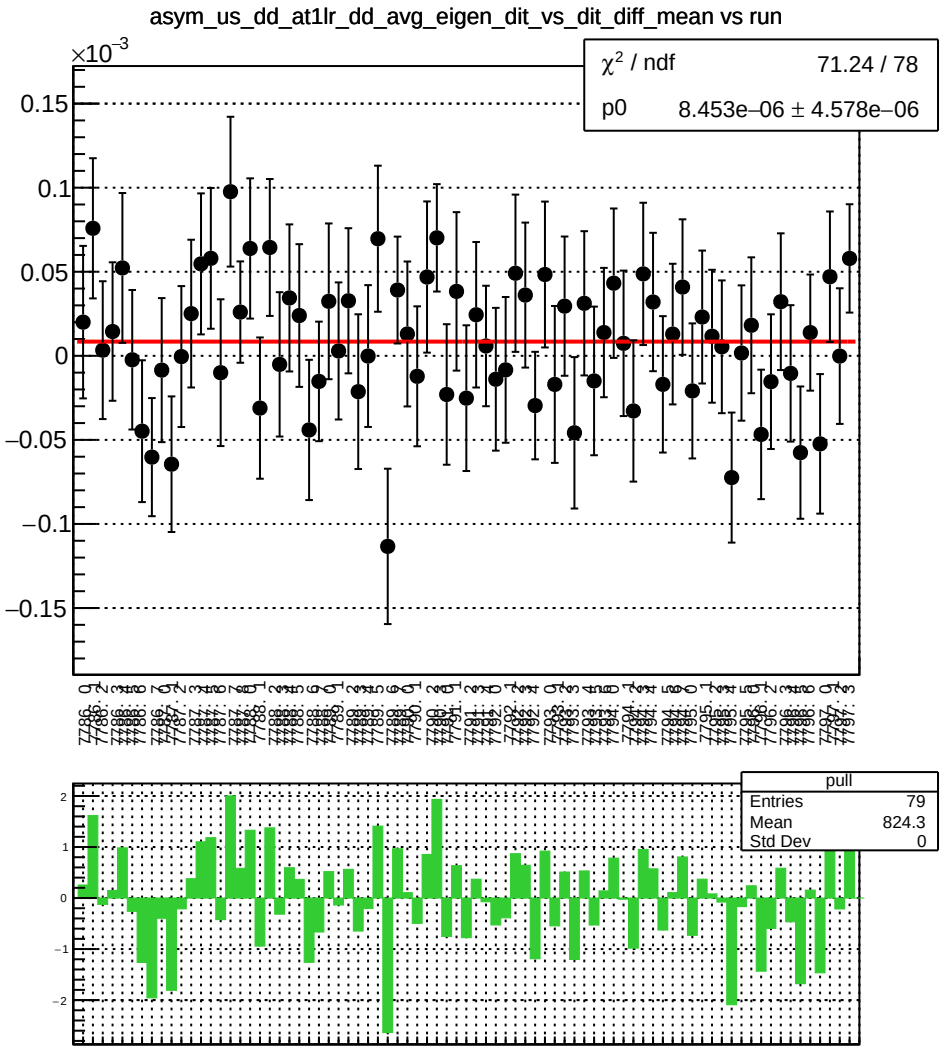

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.46 / 78
p0 −0.1063 ± 0.07976
pull
Entries 79
Mean 2.997
Std Dev 0

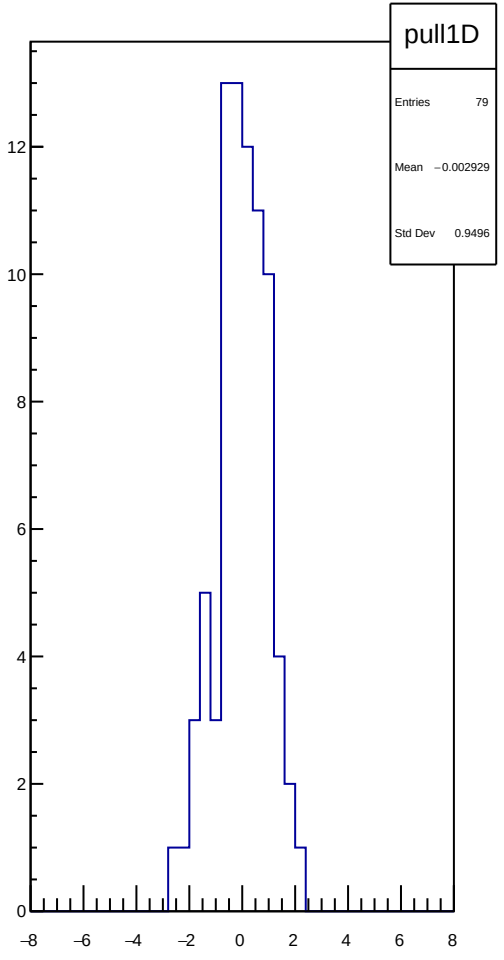

pull1D
Entries 79
Mean −0.02956
Std Dev 0.9167

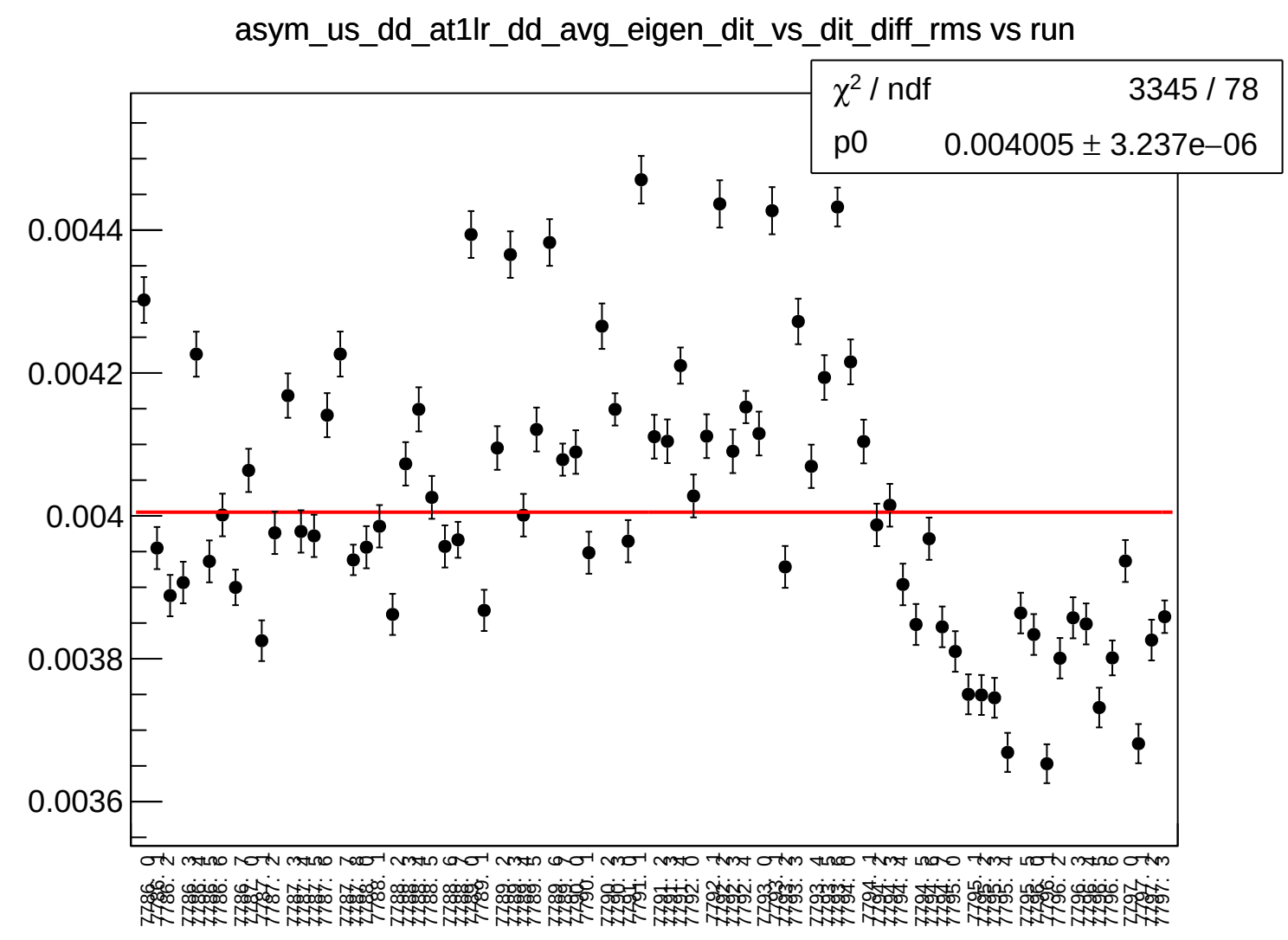

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.541e+05 / 78
p0 66.25 ± 0.0564
120
100
80
60
40
20

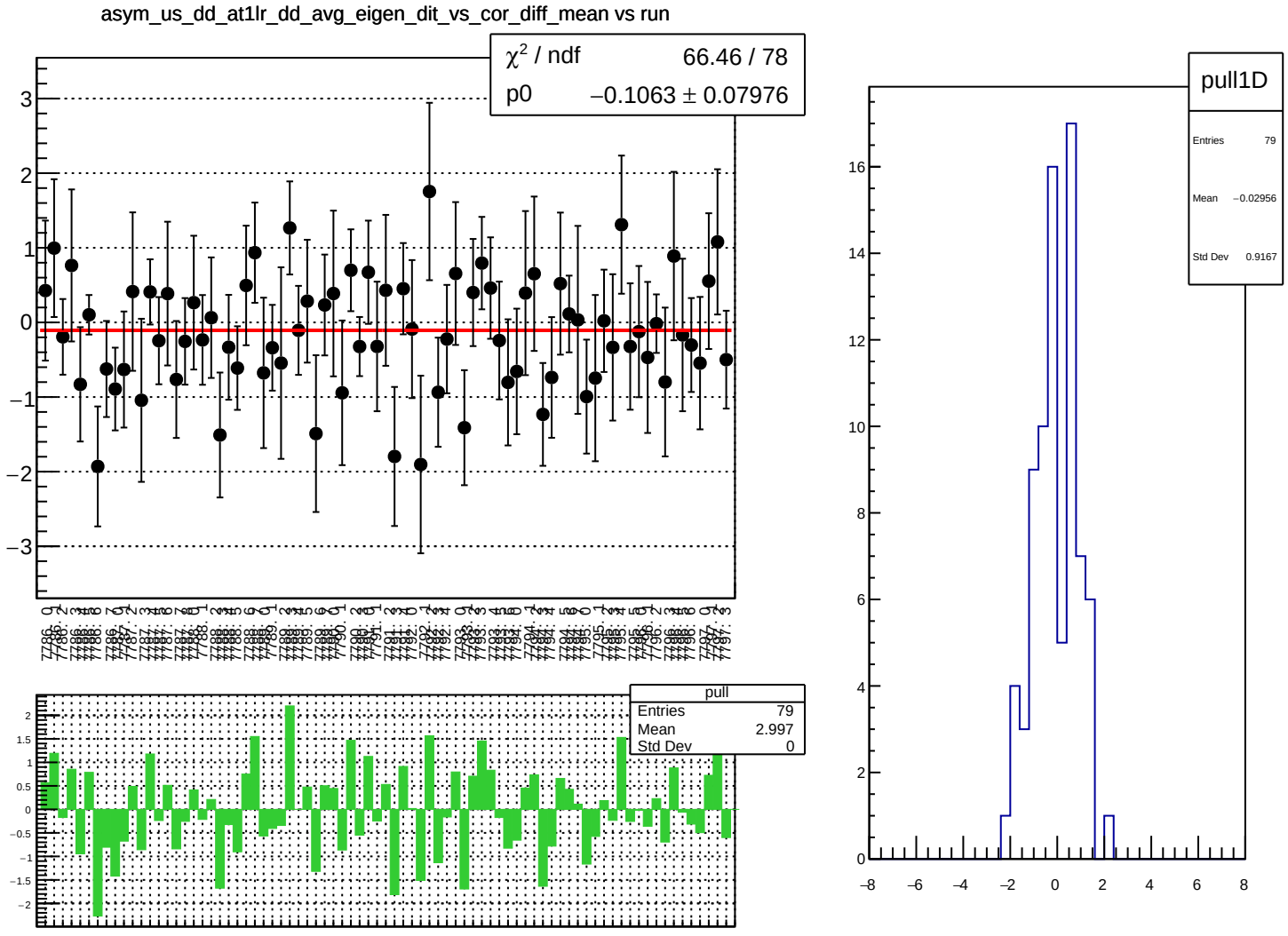

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.46 / 78
p0 −0.1063 ± 0.07976
pull
Entries 79
Mean 2.997
Std Dev 0
pull1D
Entries 79
Mean −0.02956
Std Dev 0.9167

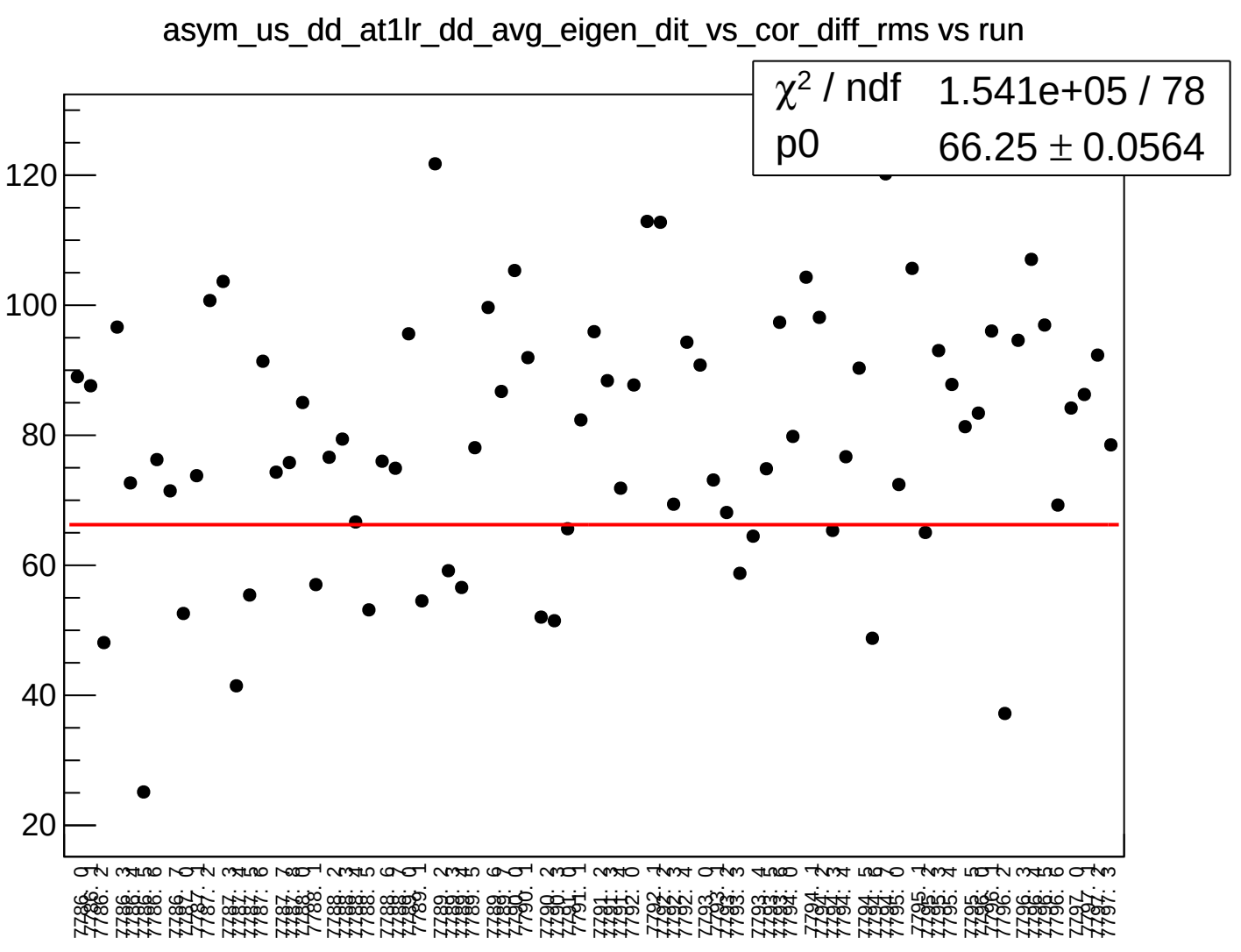

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.541e+05 / 78
p0 66.25 ± 0.0564
120
100
80
60
40
20

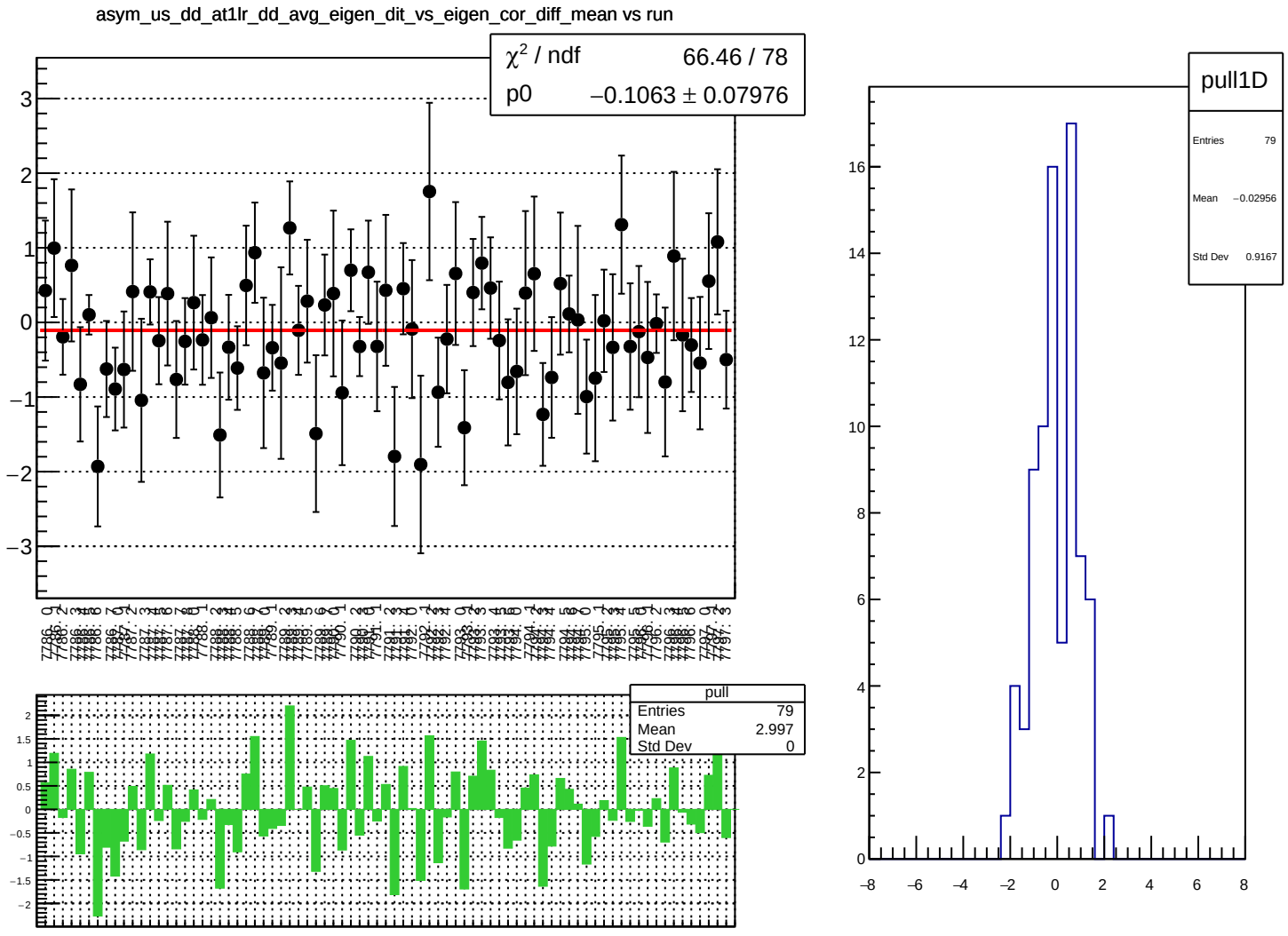

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.24 / 78
p0 8.453e−06 ± 4.578e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 79
Mean 824.3
Std Dev 0

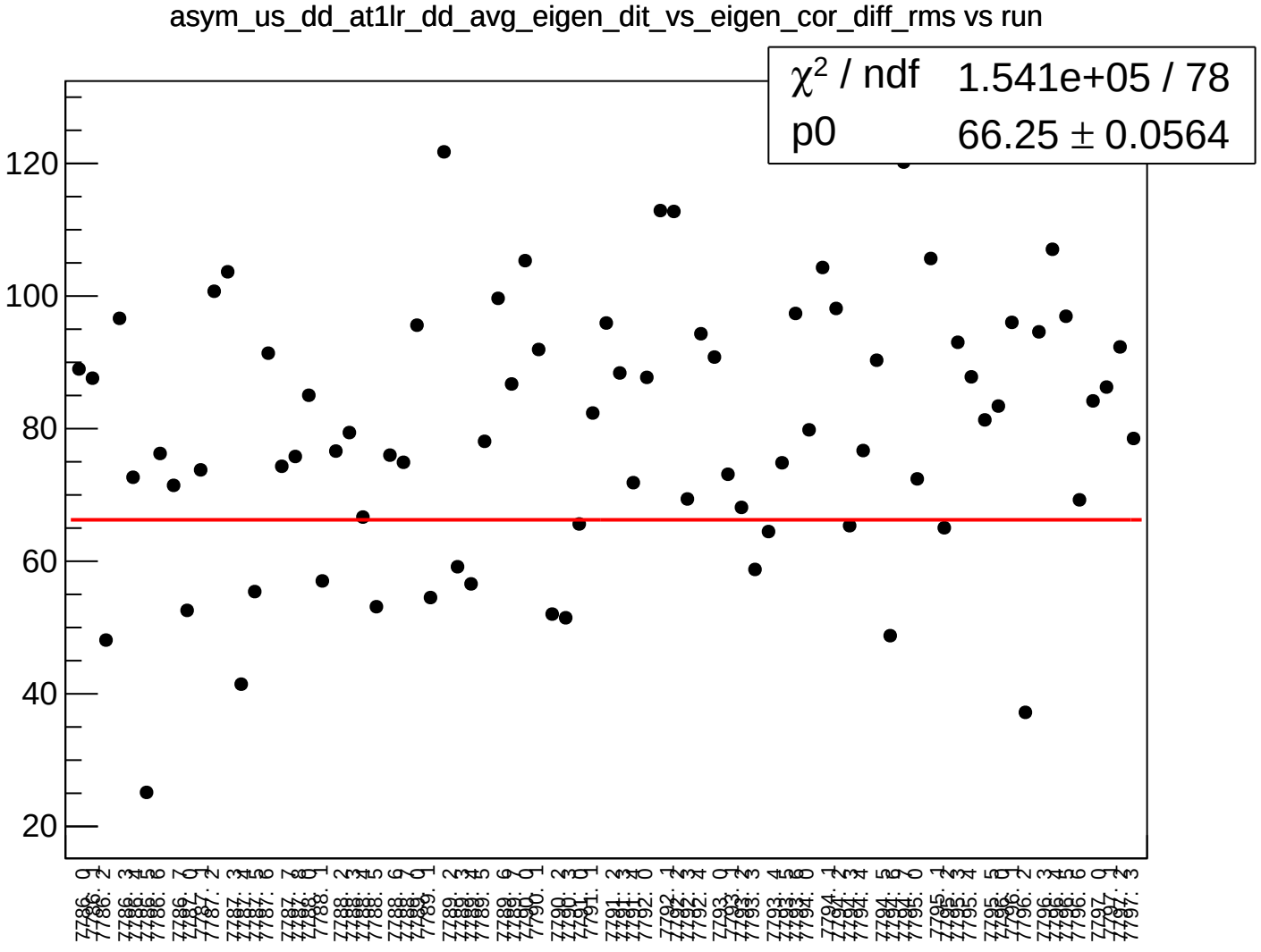

pull1D
Entries 79
Mean −0.002929
Std Dev 0.9496
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

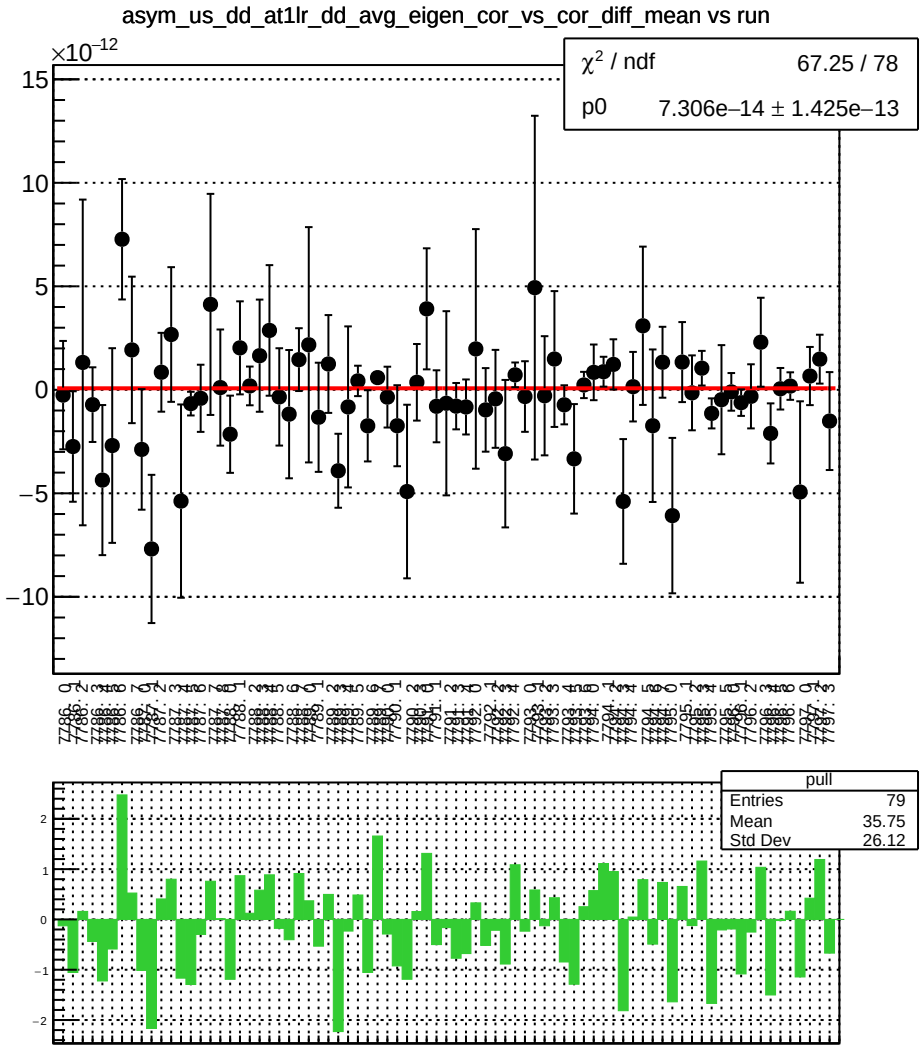

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3345 / 78
p0 0.004005 ± 3.237e−06
0.0044
0.0042
0.004
0.0038
0.0036

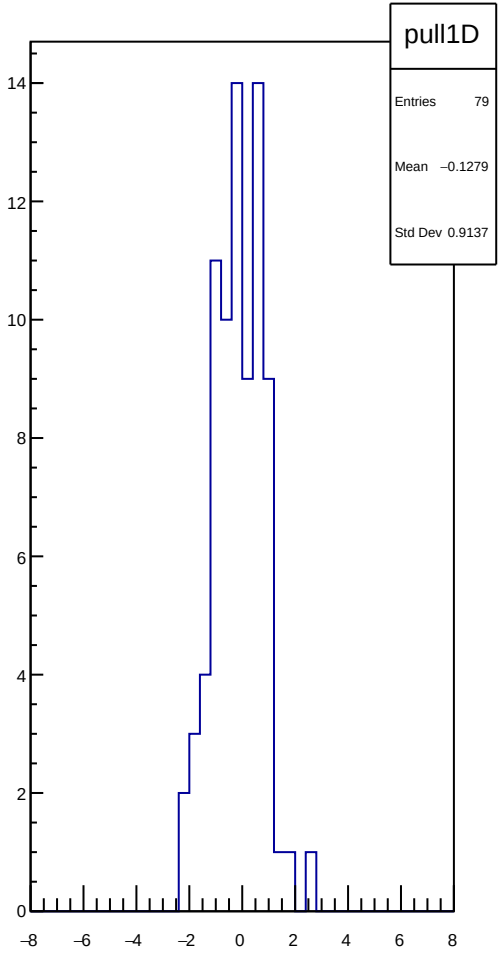

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.46 / 78
p0 −0.1063 ± 0.07976
pull
Entries 79
Mean 2.997
Std Dev 0
pull1D
Entries 79
Mean −0.02956
Std Dev 0.9167

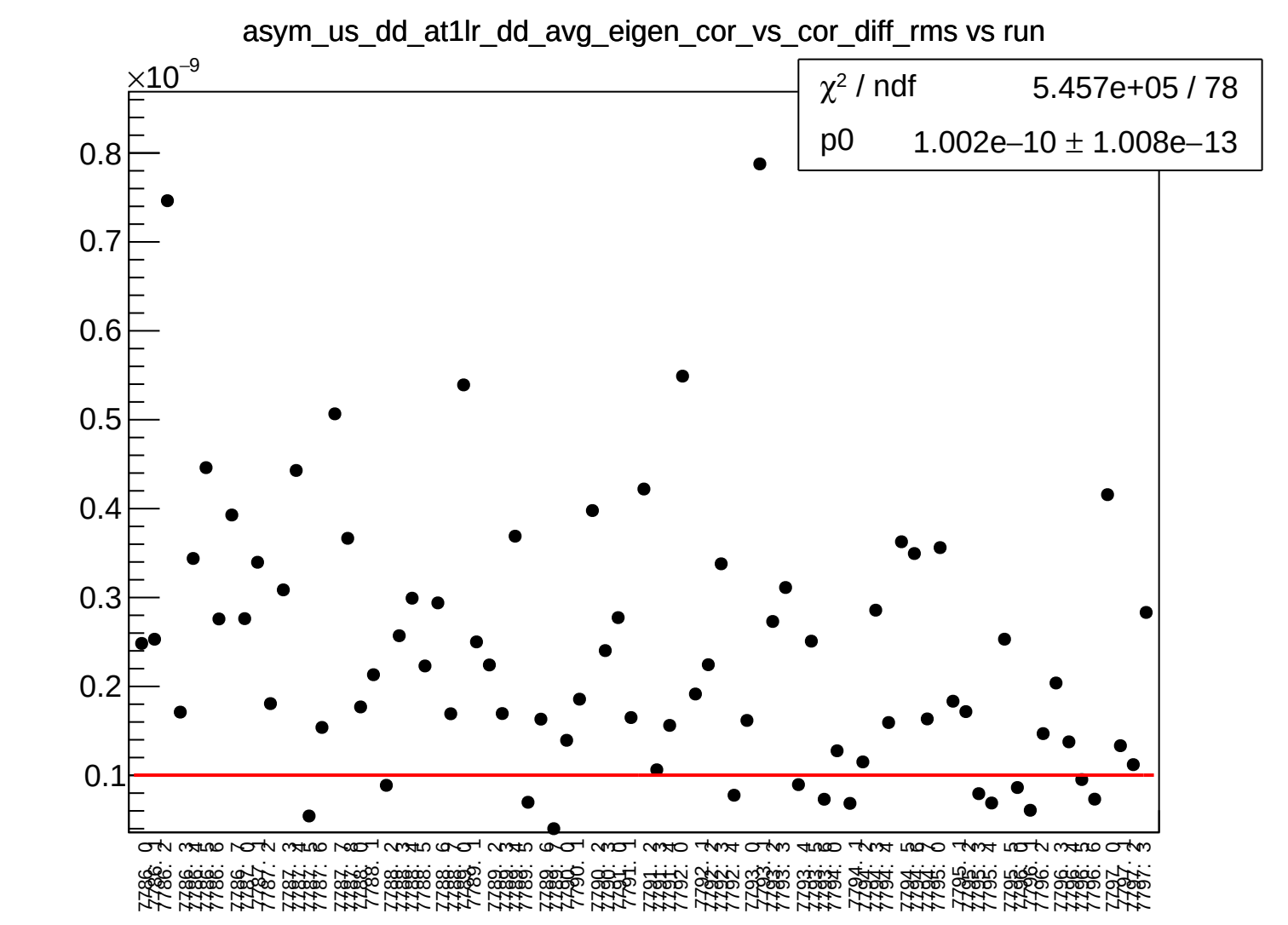

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.541e+05 / 78
p0 66.25 ± 0.0564
120
100
80
60
40
20

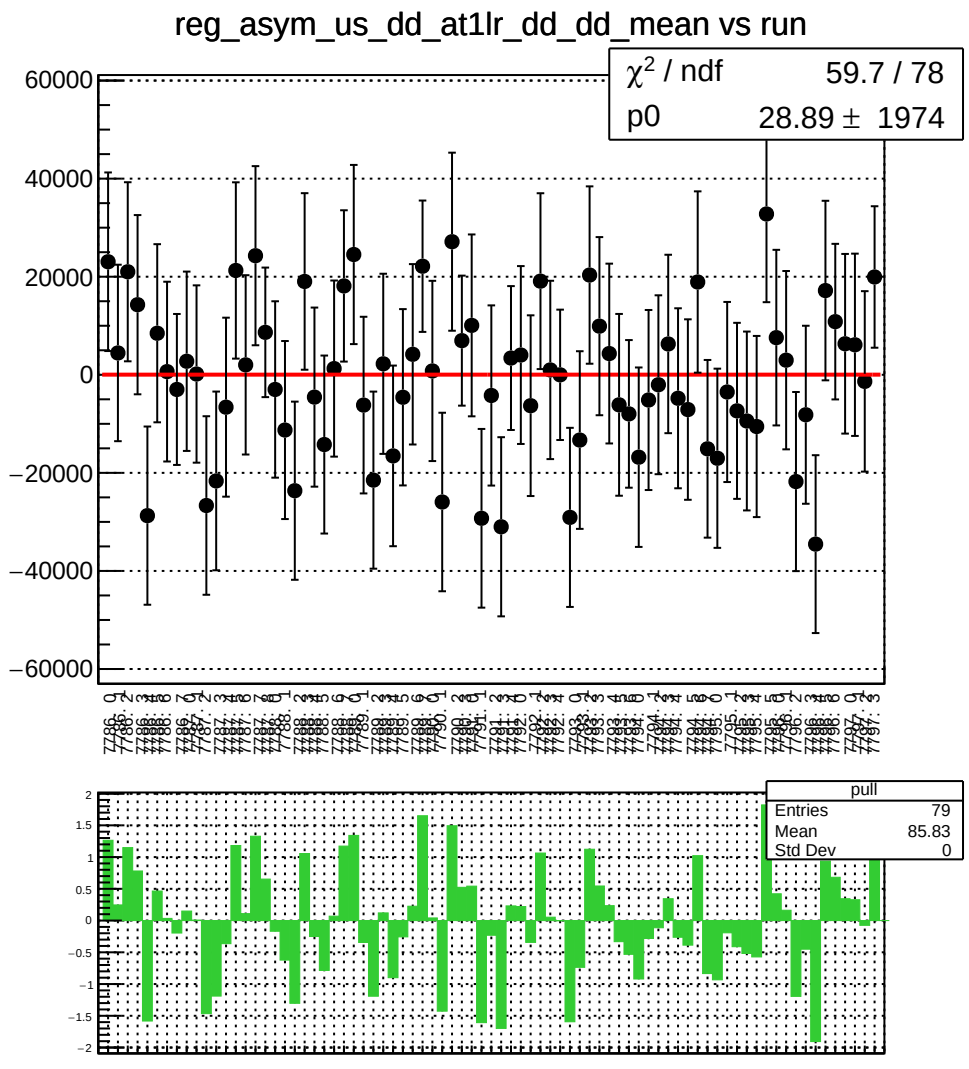

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.46 / 78
p0 −0.1063 ± 0.07976
pull
Entries 79
Mean 2.997
Std Dev 0
pull1D
Entries 79
Mean −0.02956
Std Dev 0.9167

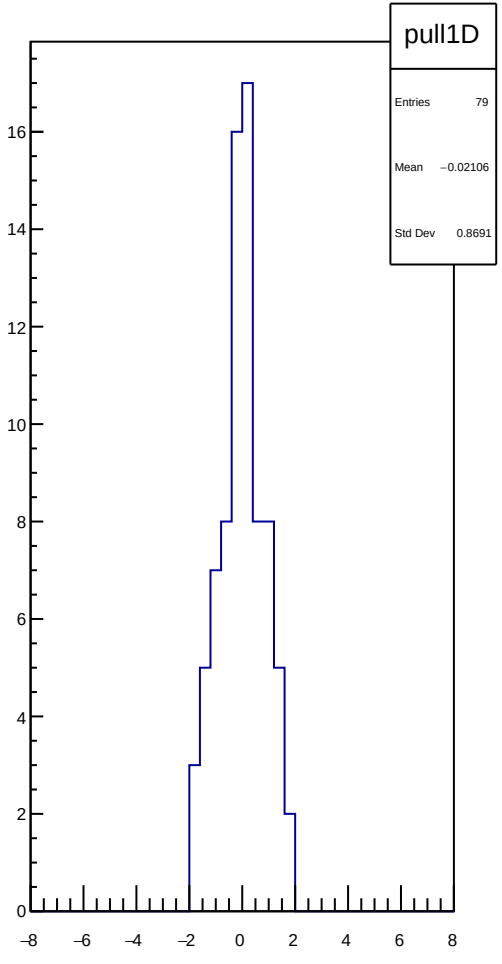

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.541e+05 / 78
p0 66.25 ± 0.0564
120
100
80
60
40
20

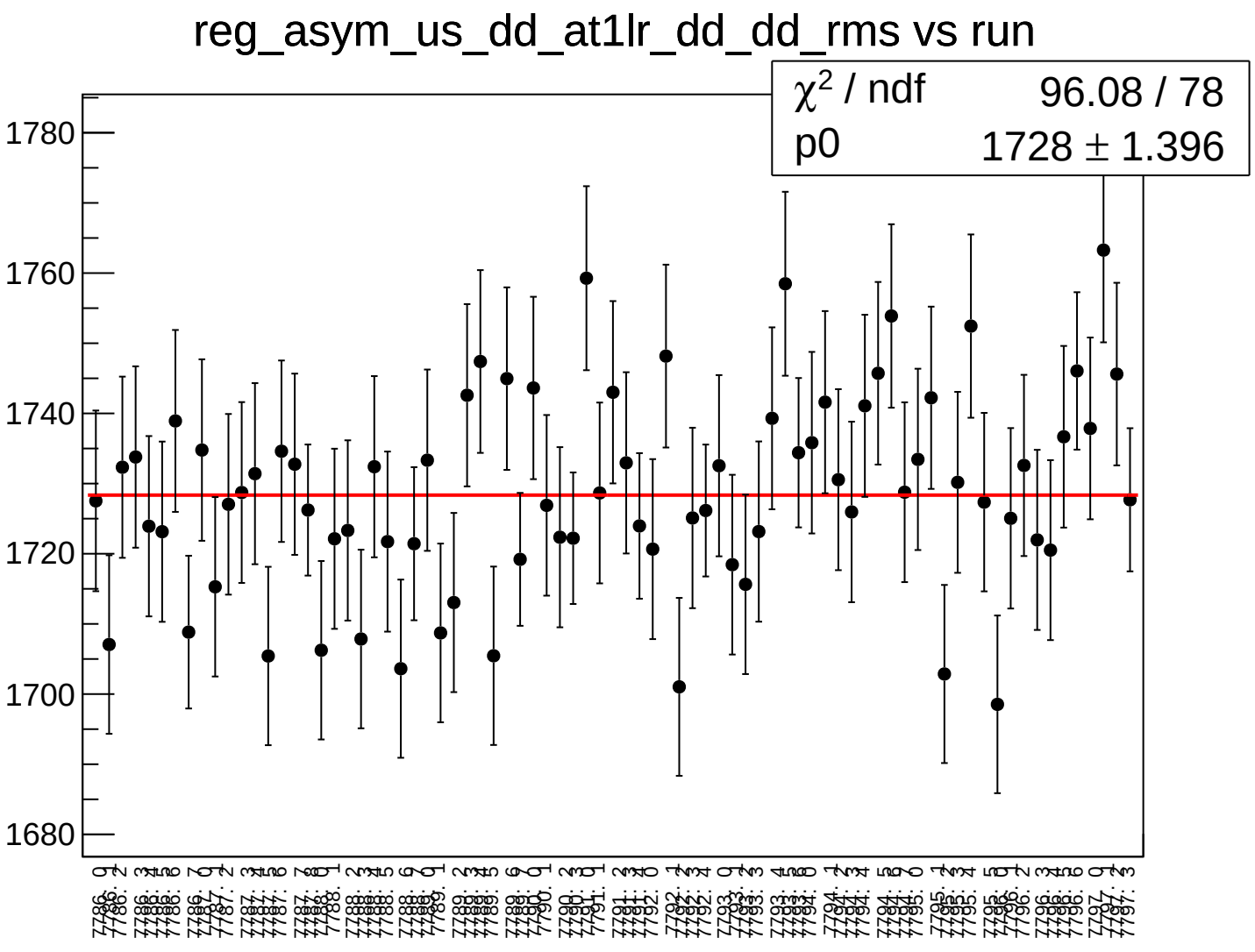

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.25 / 78
p0 7.306e−14 ± 1.425e−13
pull
Entries 79
Mean 35.75
Std Dev 26.12

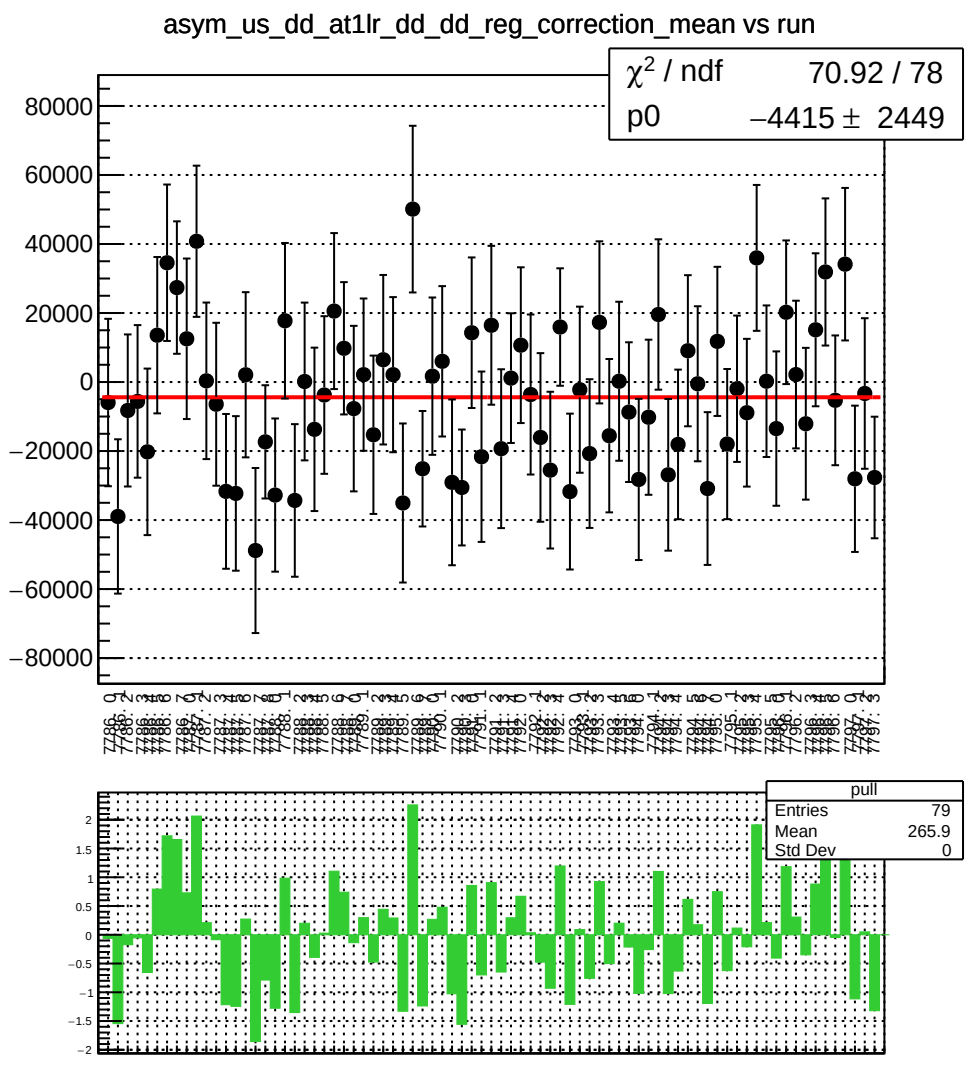

pull1D
Entries 79
Mean −0.1279
Std Dev 0.9137

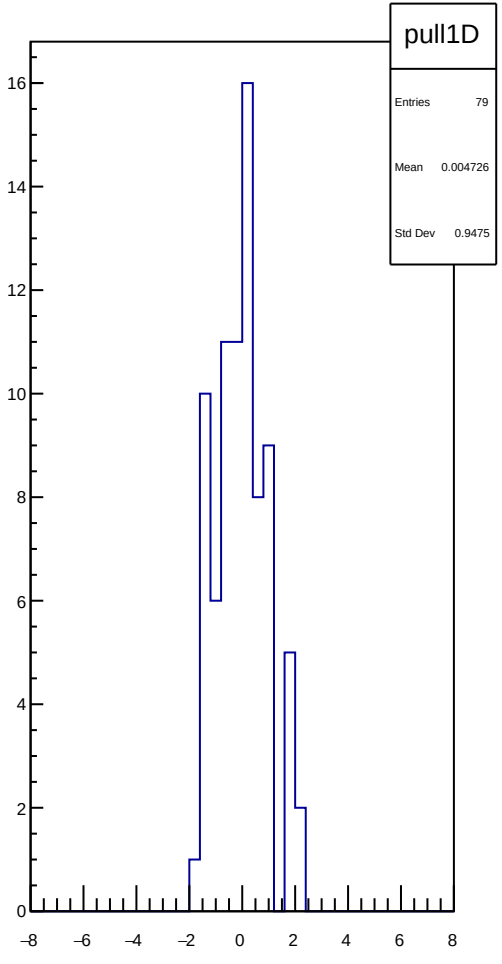

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.457e+05 / 78
p0 1.002e−10 ± 1.008e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

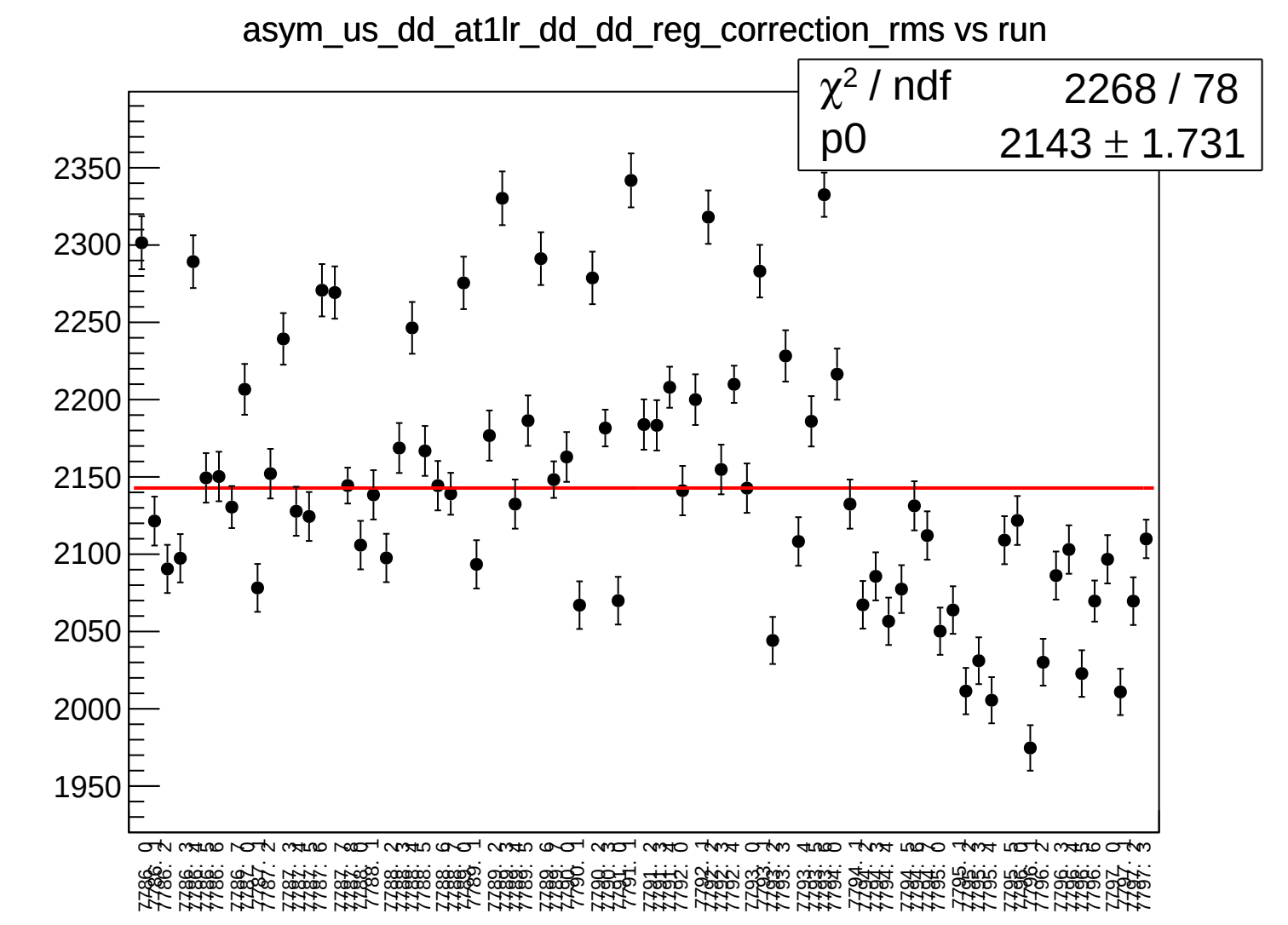

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 59.7 / 78
p0 28.89 ± 1974
pull
Entries 79
Mean 85.83
Std Dev 0

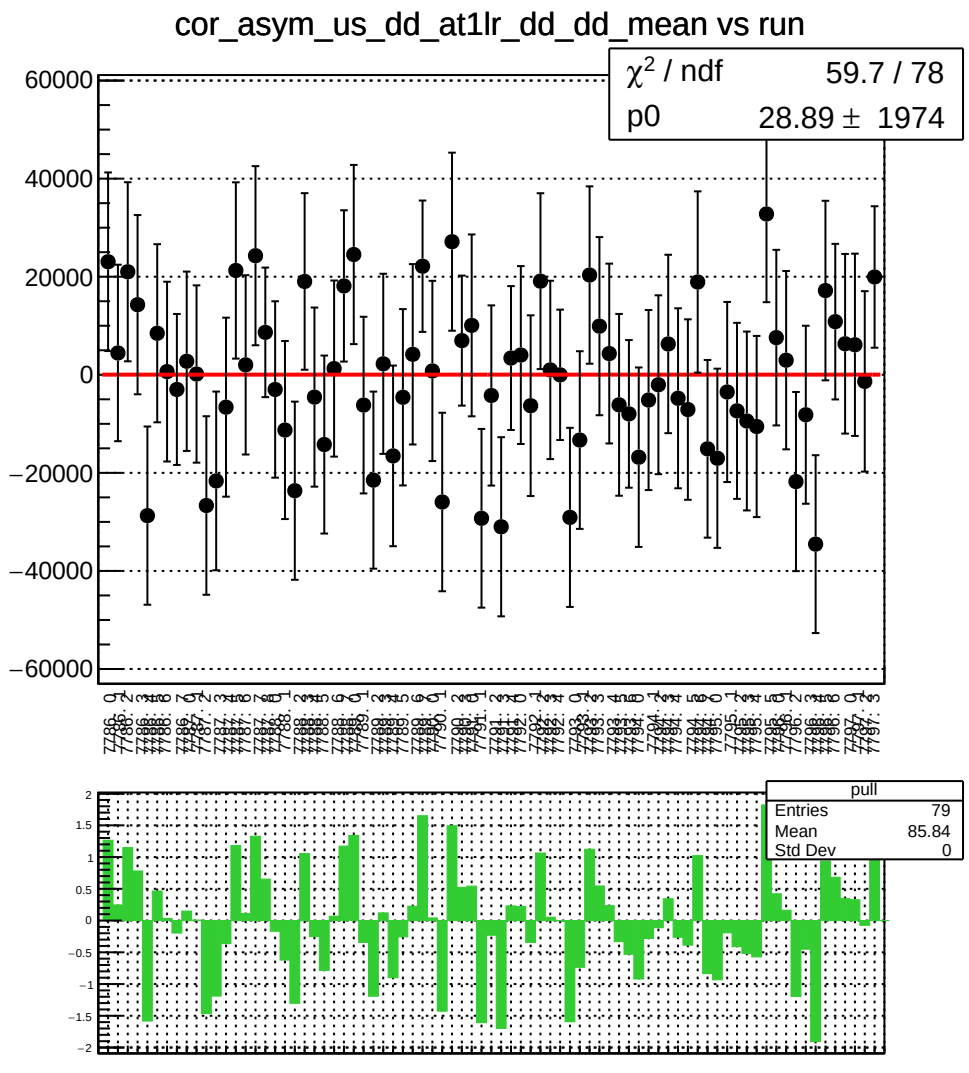

pull1D
Entries 79
Mean −0.02106
Std Dev 0.8691

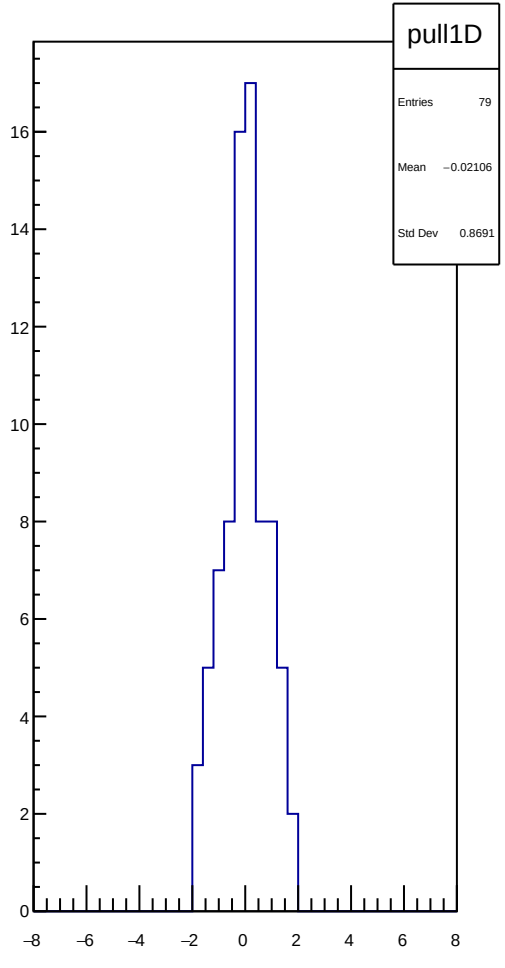

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 96.08 / 78
p0 1728 ± 1.396
1780
1760
1740
1720
1700
1680

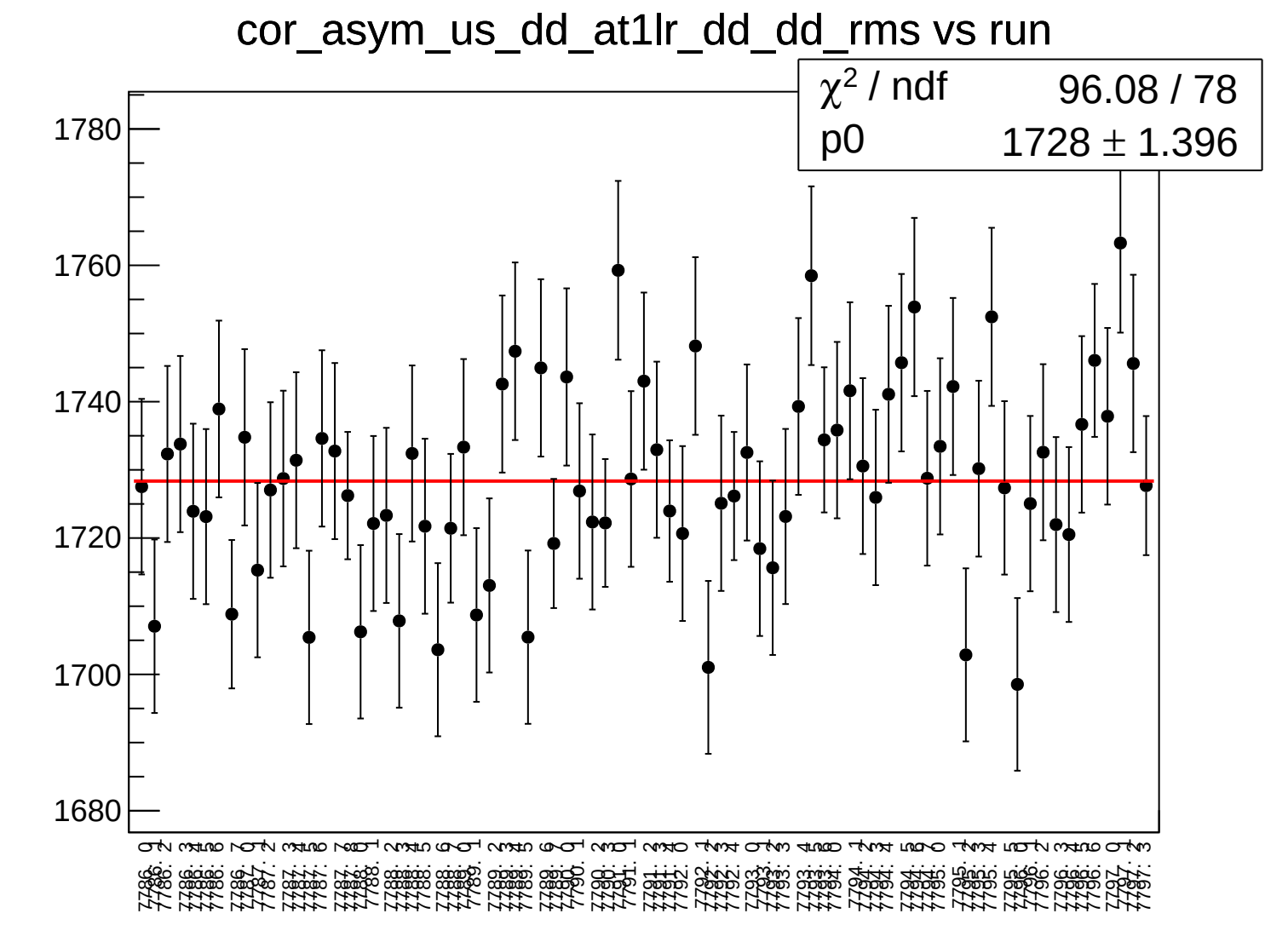

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 70.92 / 78
p0 −4415 ± 2449
pull
Entries 79
Mean 265.9
Std Dev 0

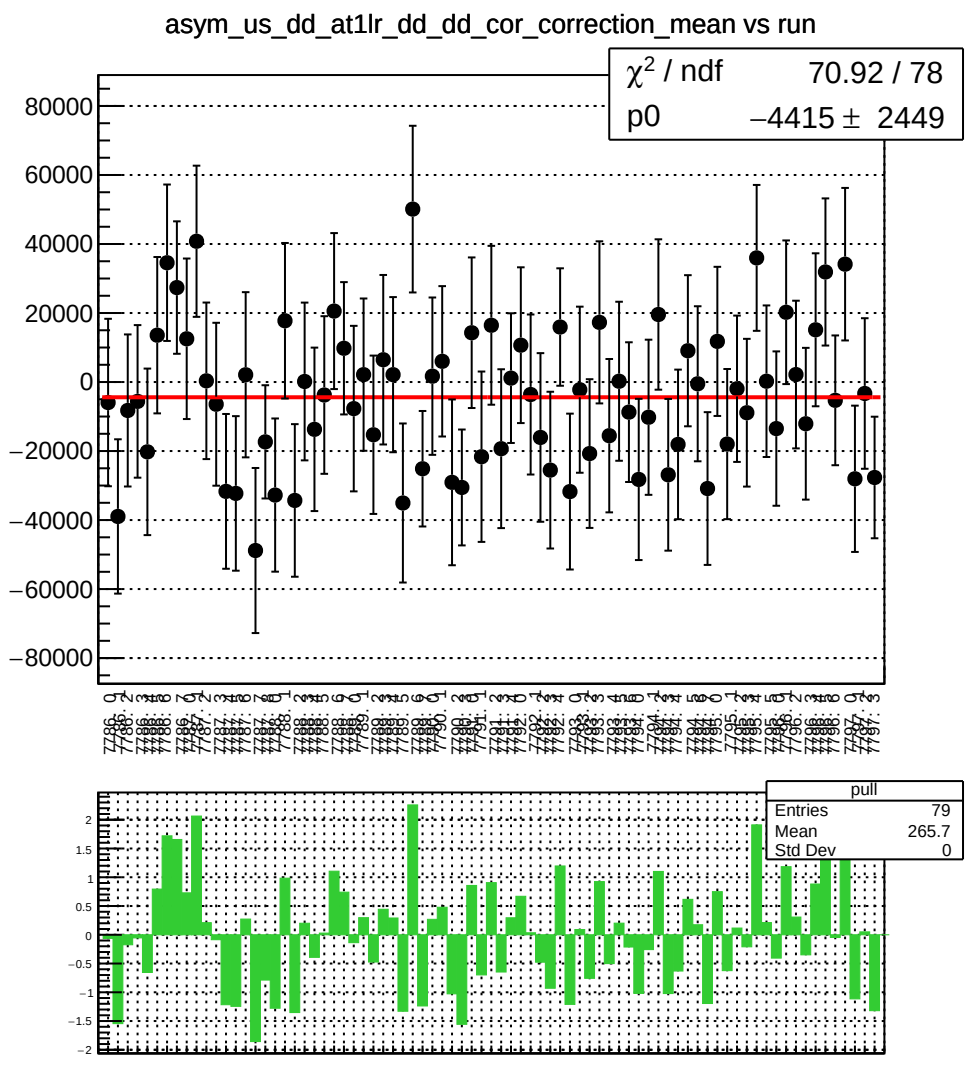

pull1D
Entries 79
Mean 0.004726
Std Dev 0.9475

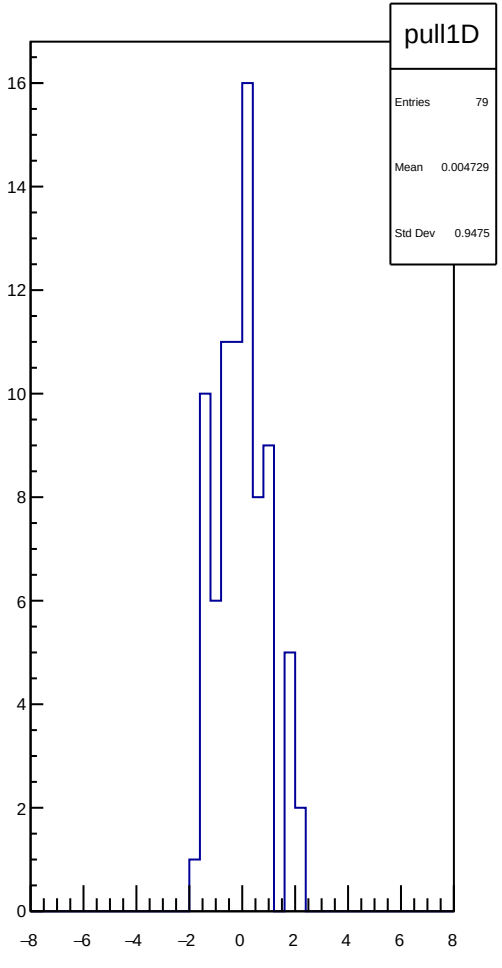

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2268 / 78
p0 2143 ± 1.731
2350
2300
2250
2200
2150
2100
2050
2000
1950

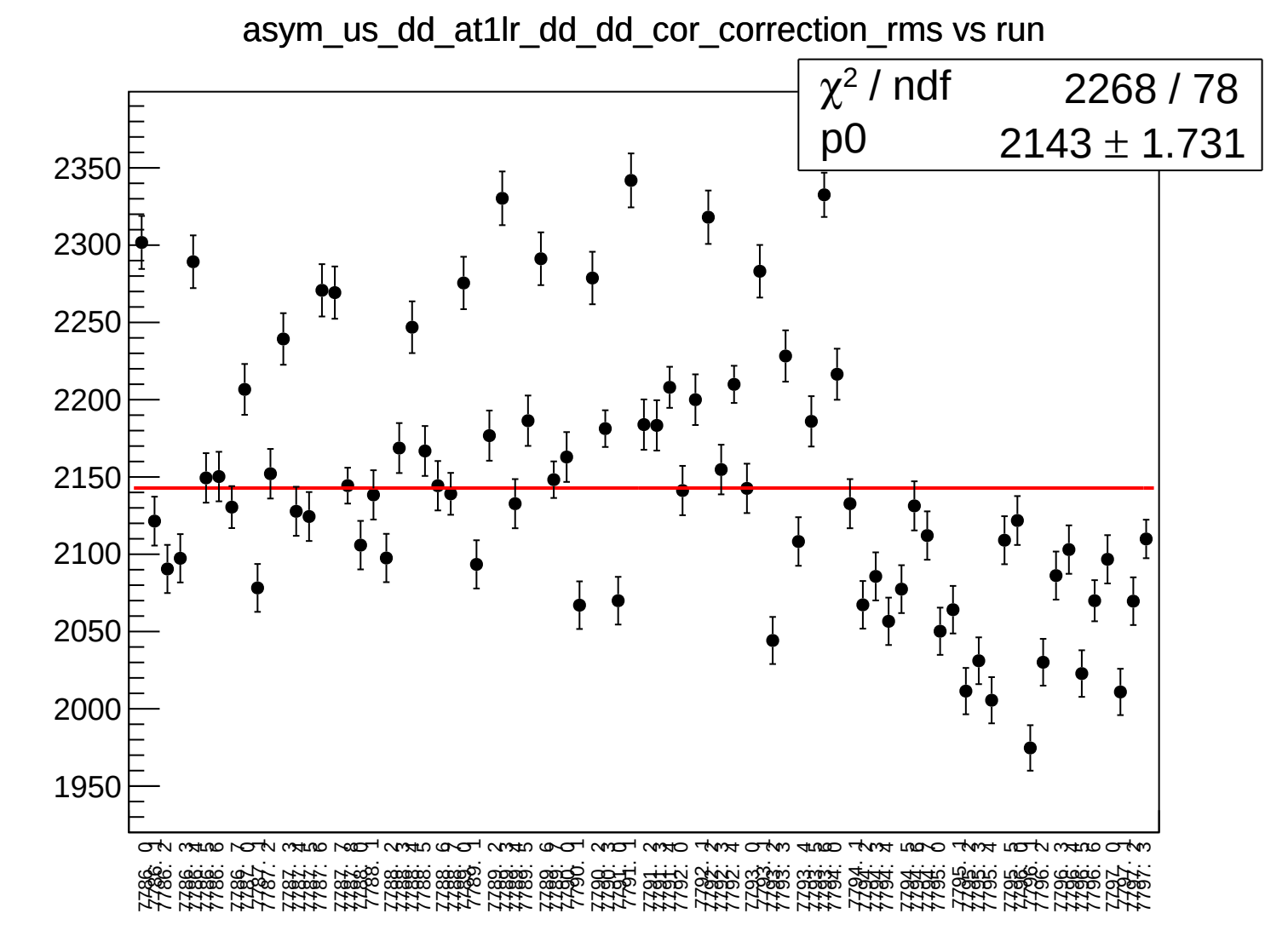

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 59.7 / 78
p0 28.89 ± 1974
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 85.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

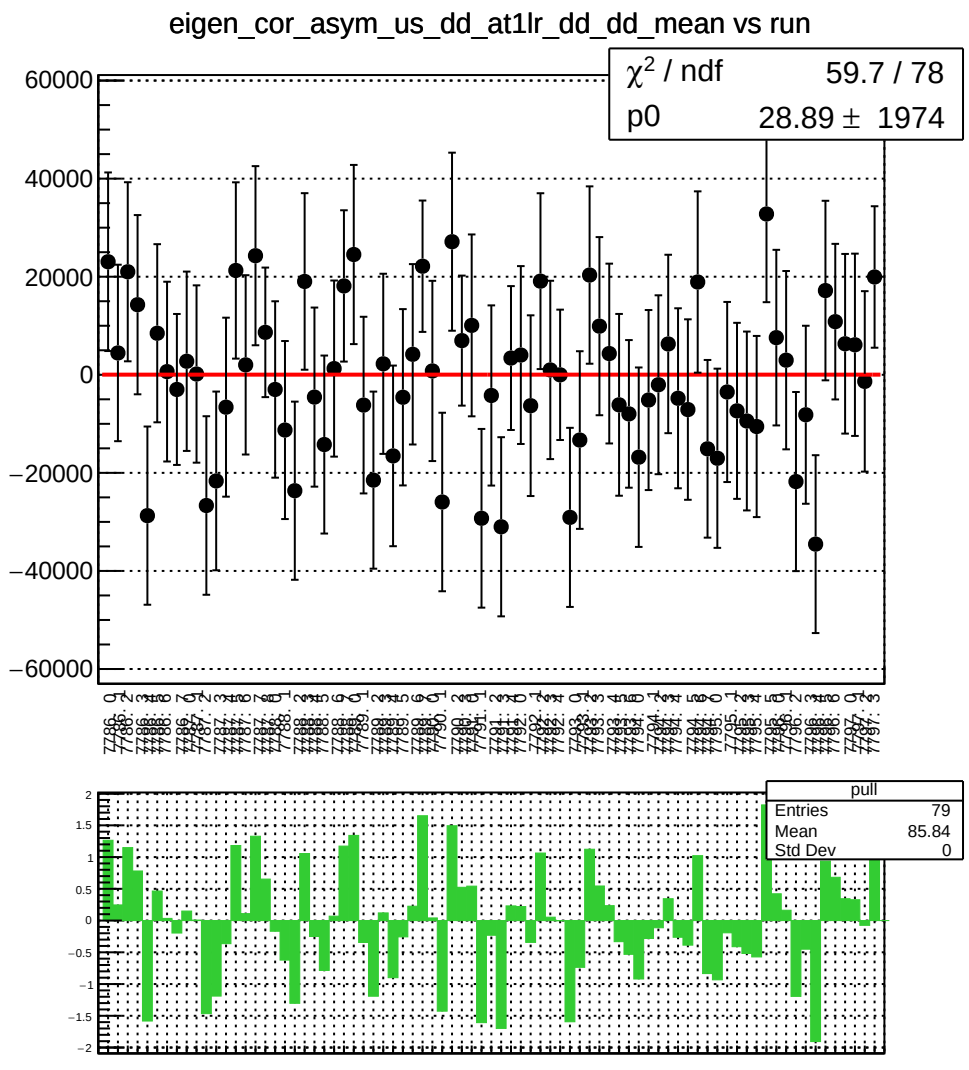

pull1D
Entries 79
Mean −0.02106
Std Dev 0.8691
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

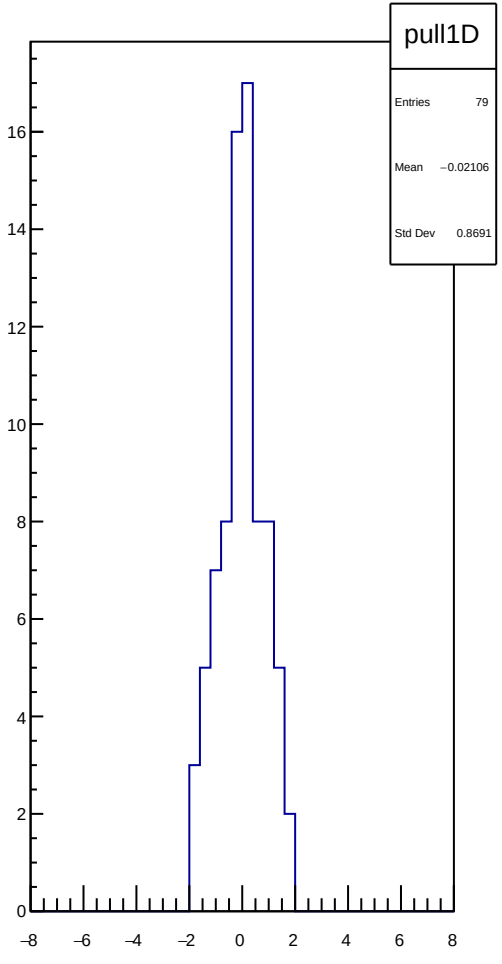

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 96.08 / 78
p0 1728 ± 1.396
1780
1760
1740
1720
1700
1680

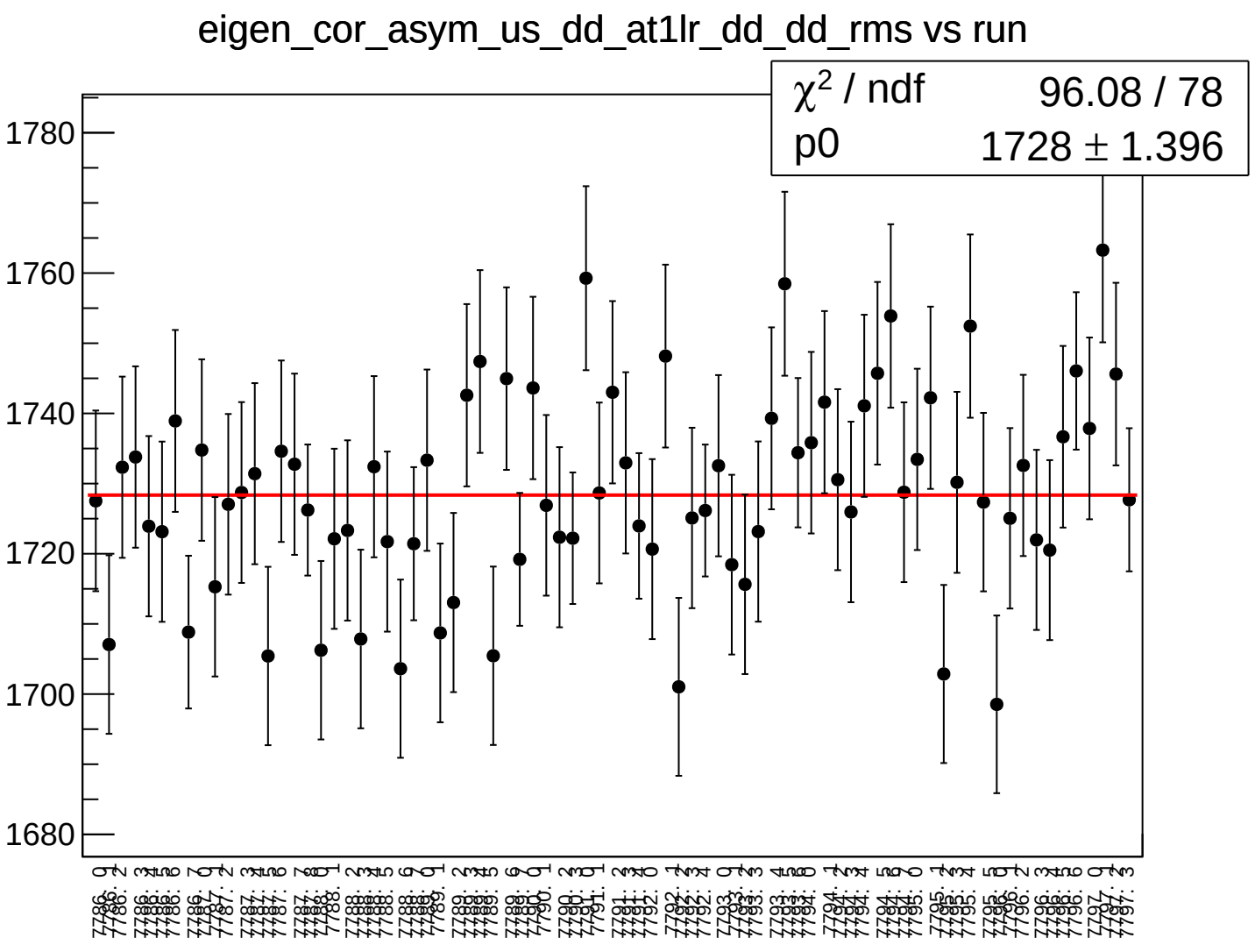

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 70.92 / 78
p0 −4415 ± 2449
pull
Entries 79
Mean 265.7
Std Dev 0

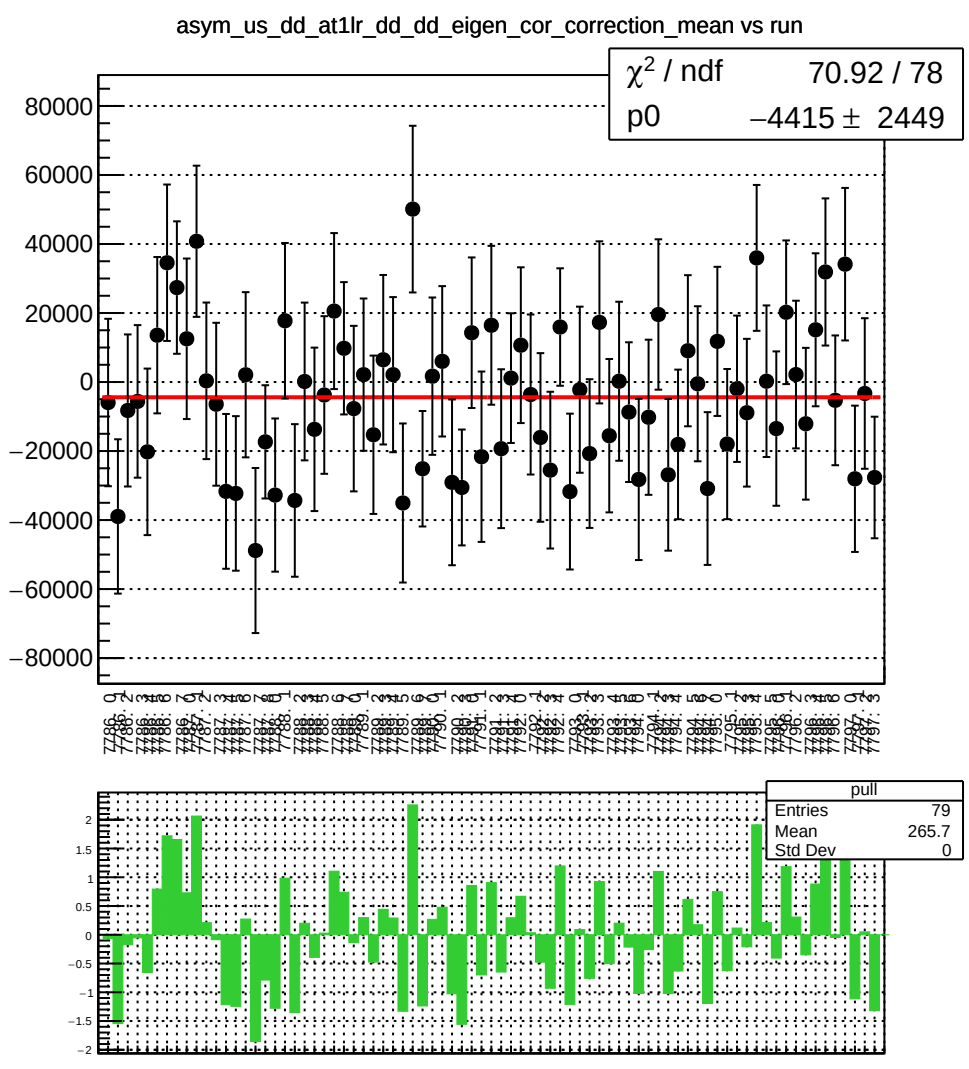

pull1D
Entries 79
Mean 0.004729
Std Dev 0.9475

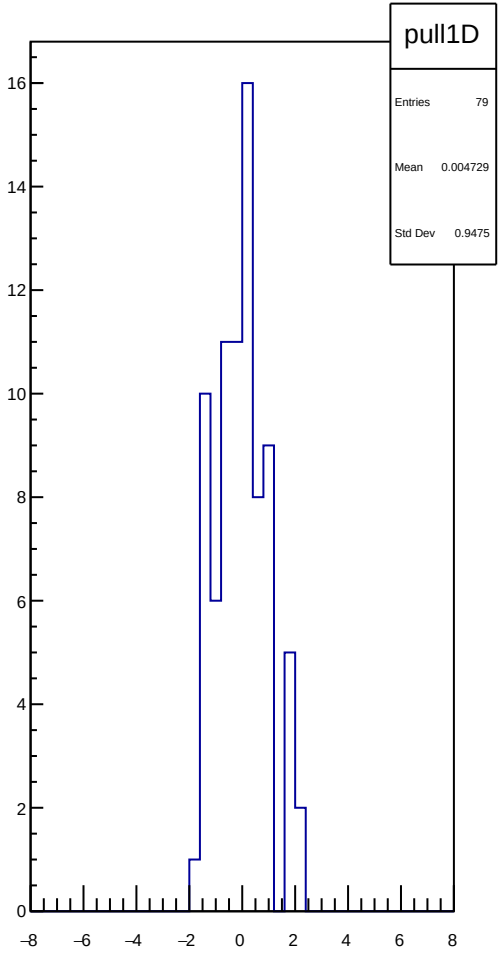

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2268 / 78
p0 2143 ± 1.731
2350
2300
2250
2200
2150
2100
2050
2000
1950

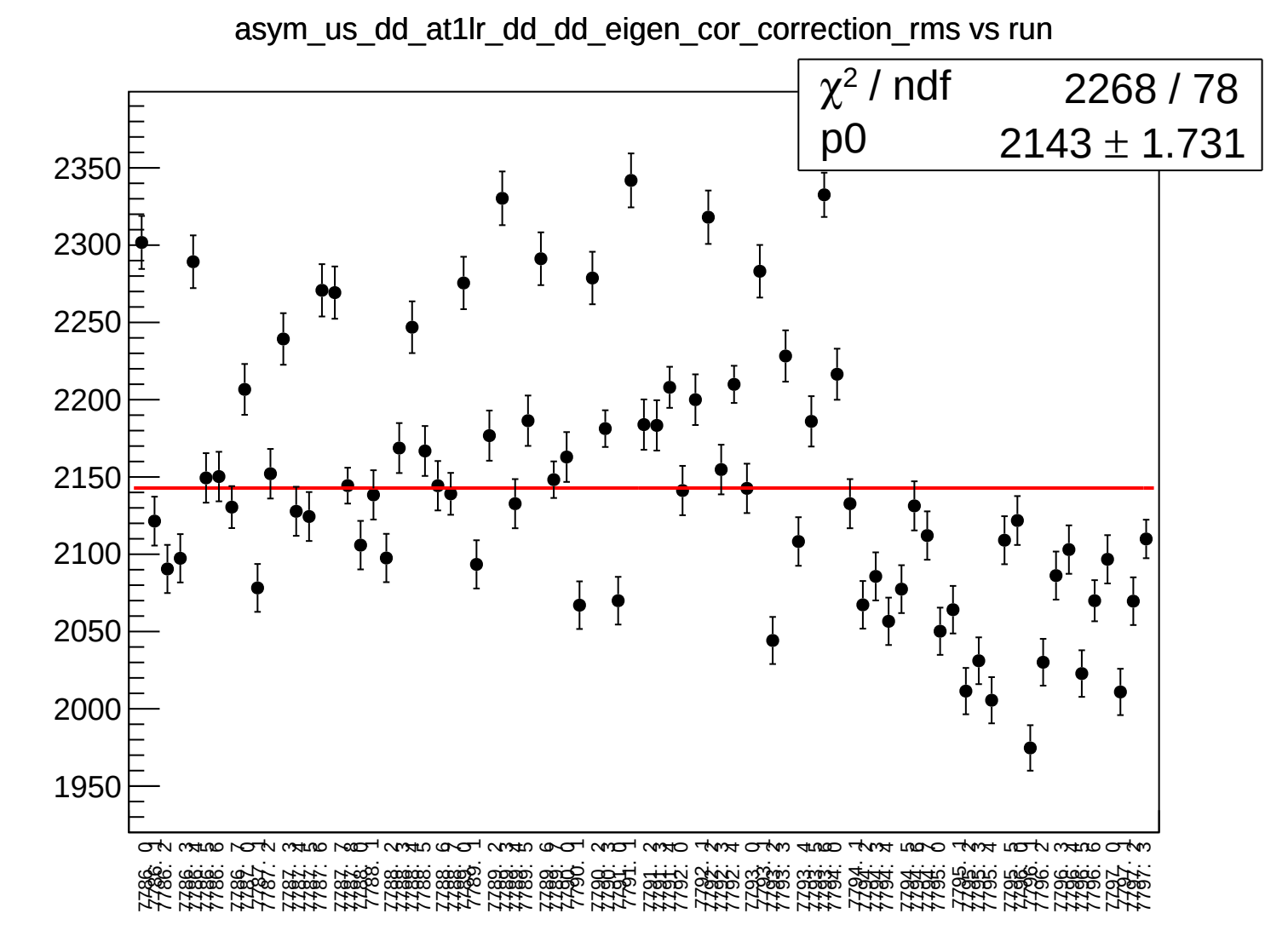

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 59.7 / 78
p0 28.89 ± 1974
pull
Entries 79
Mean 85.84
Std Dev 0

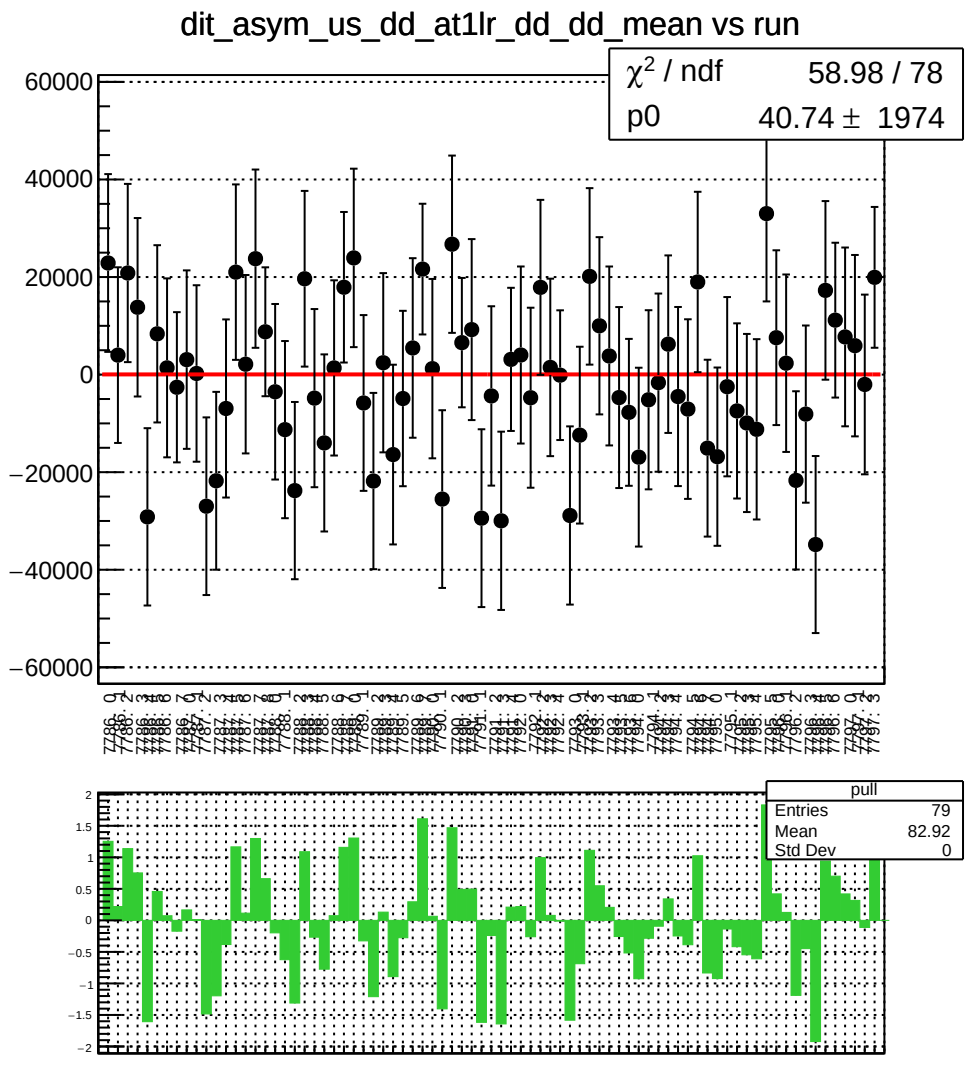

pull1D
Entries 79
Mean −0.02106
Std Dev 0.8691

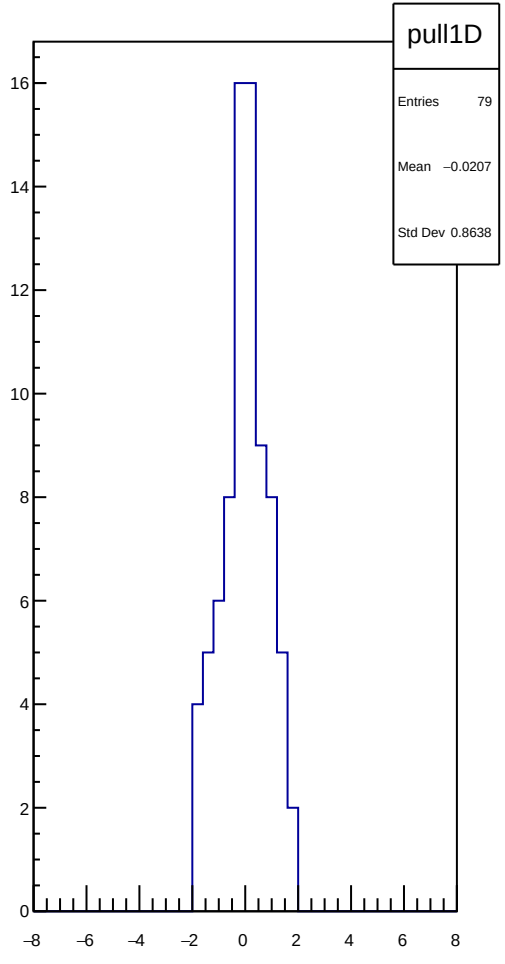

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 96.08 / 78
p0 1728 ± 1.396
1780
1760
1740
1720
1700
1680

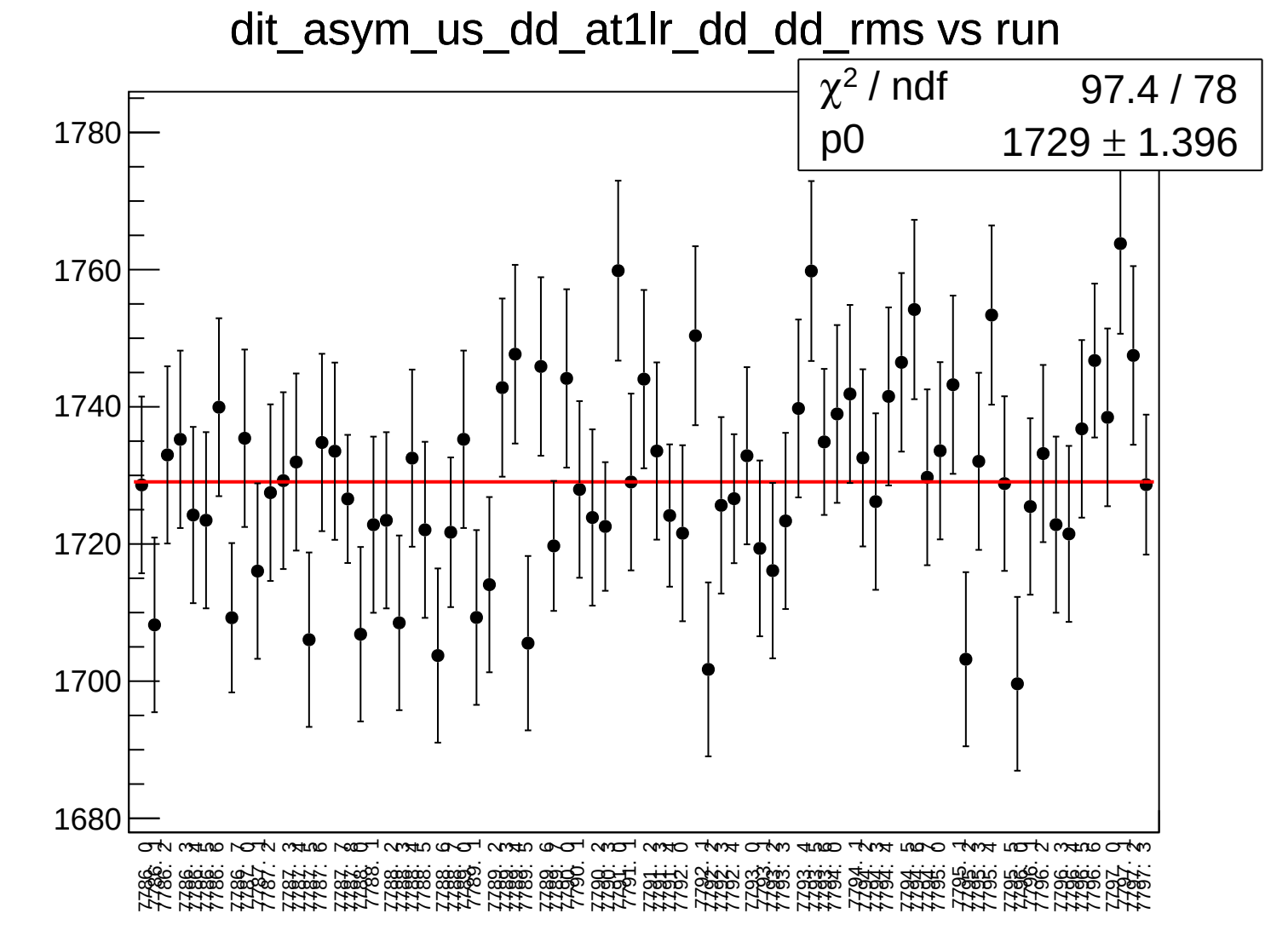

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.92 / 78
p0 −4415 ± 2449
pull
Entries 79
Mean 265.7
Std Dev 0

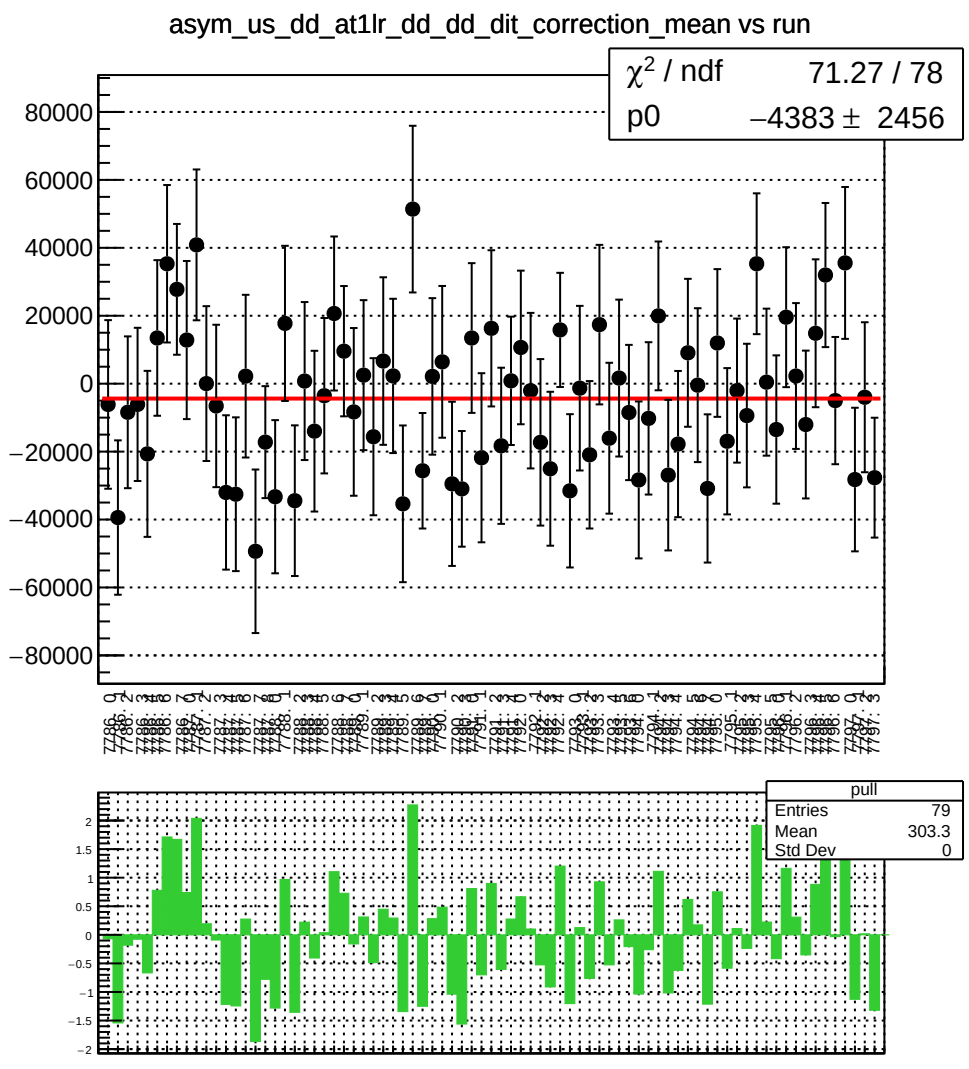

pull1D
Entries 79
Mean 0.004729
Std Dev 0.9475

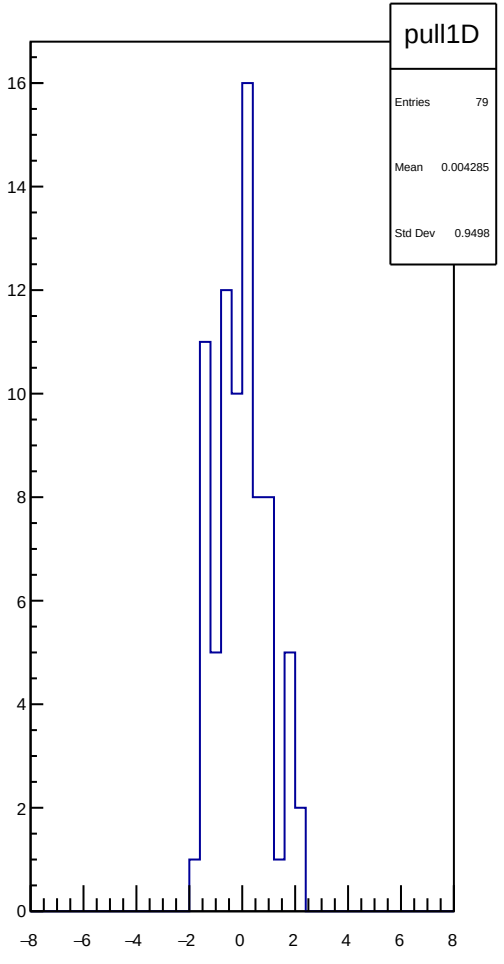

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2268 / 78
p0 2143 ± 1.731
2350
2300
2250
2200
2150
2100
2050
2000
1950

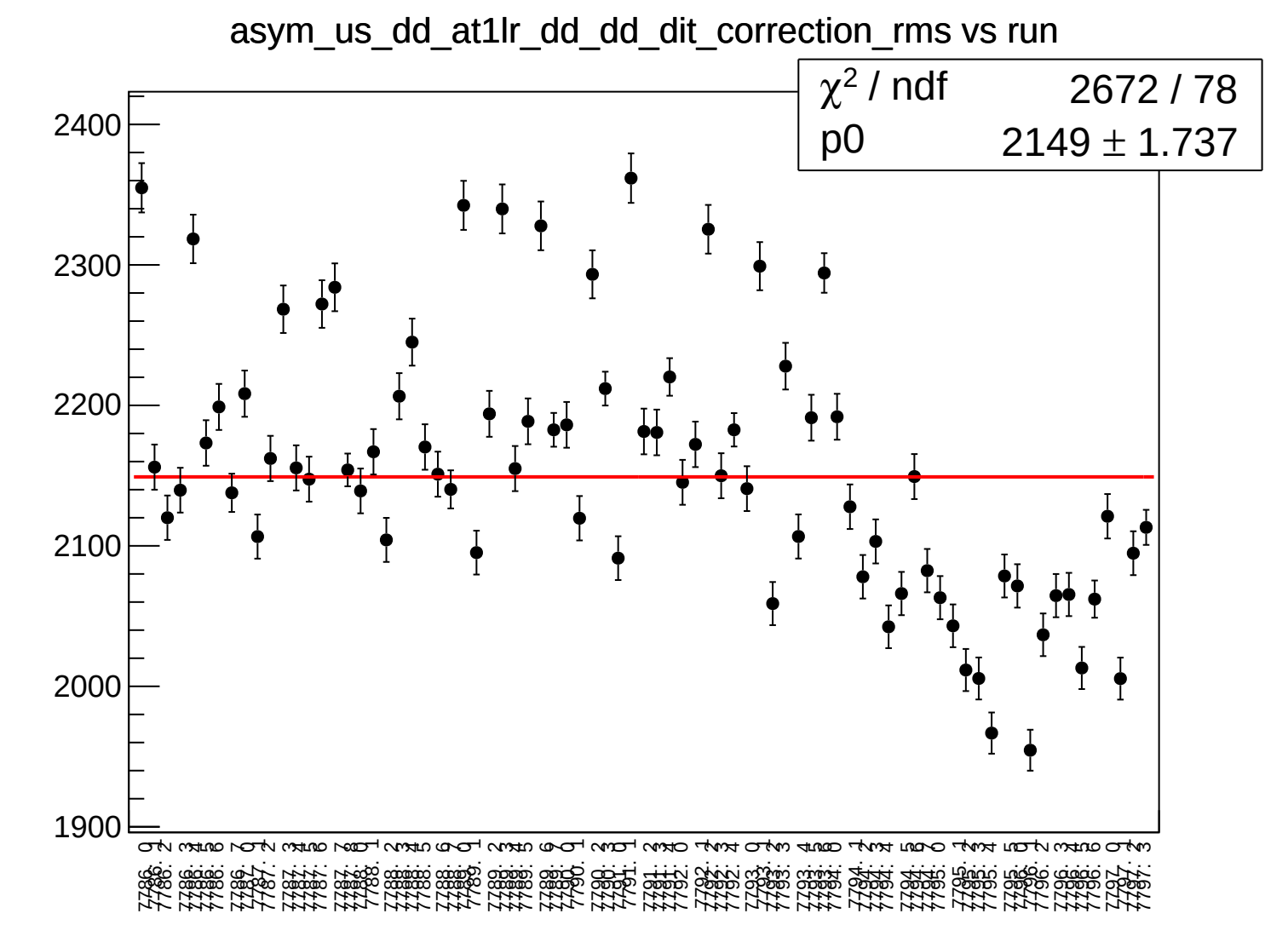

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 58.98 / 78
p0 40.74 ± 1974
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 82.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

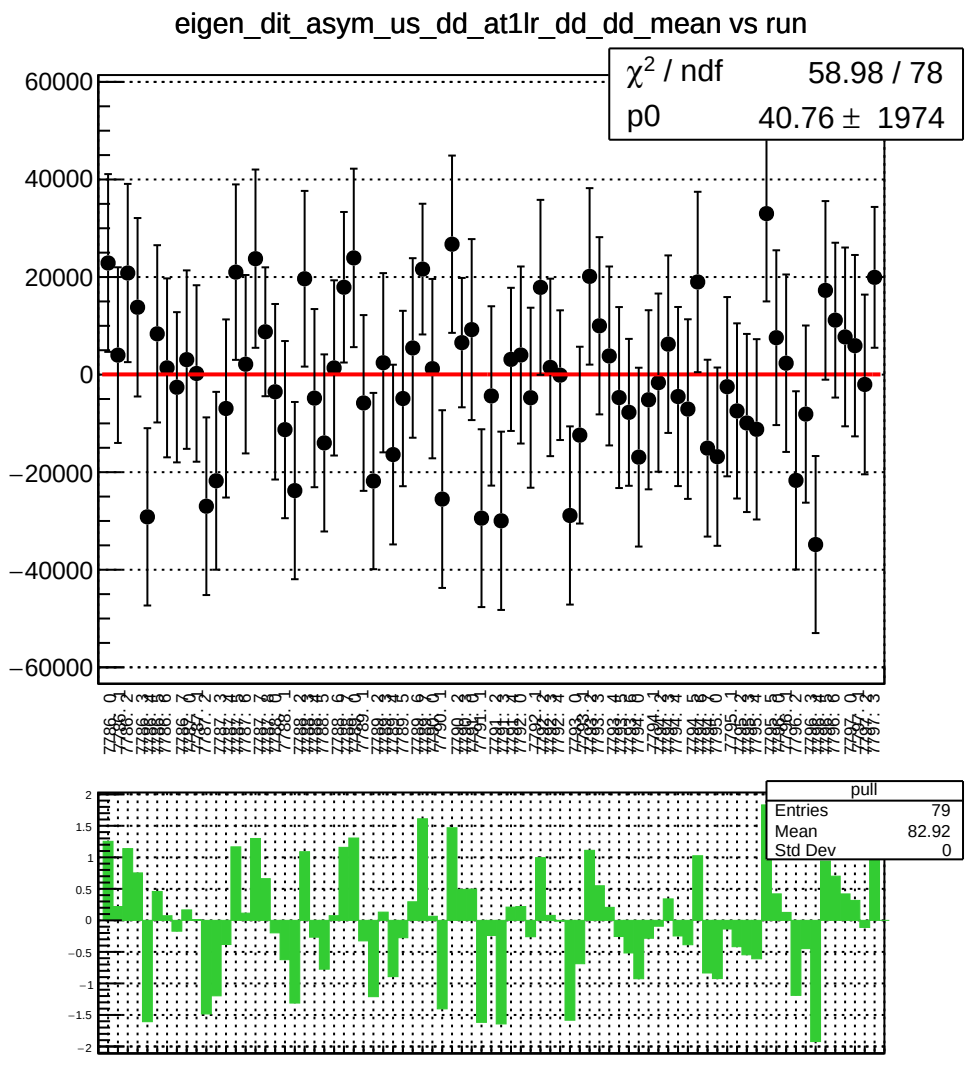

pull1D
Entries 79
Mean −0.0207
Std Dev 0.8638
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

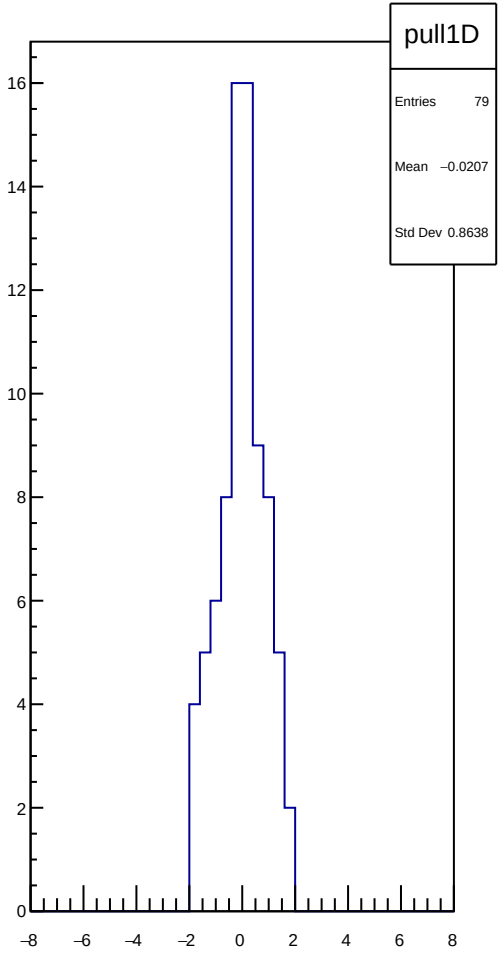

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 97.4 / 78
p0 1729 ± 1.396
1780
1760
1740
1720
1700
1680

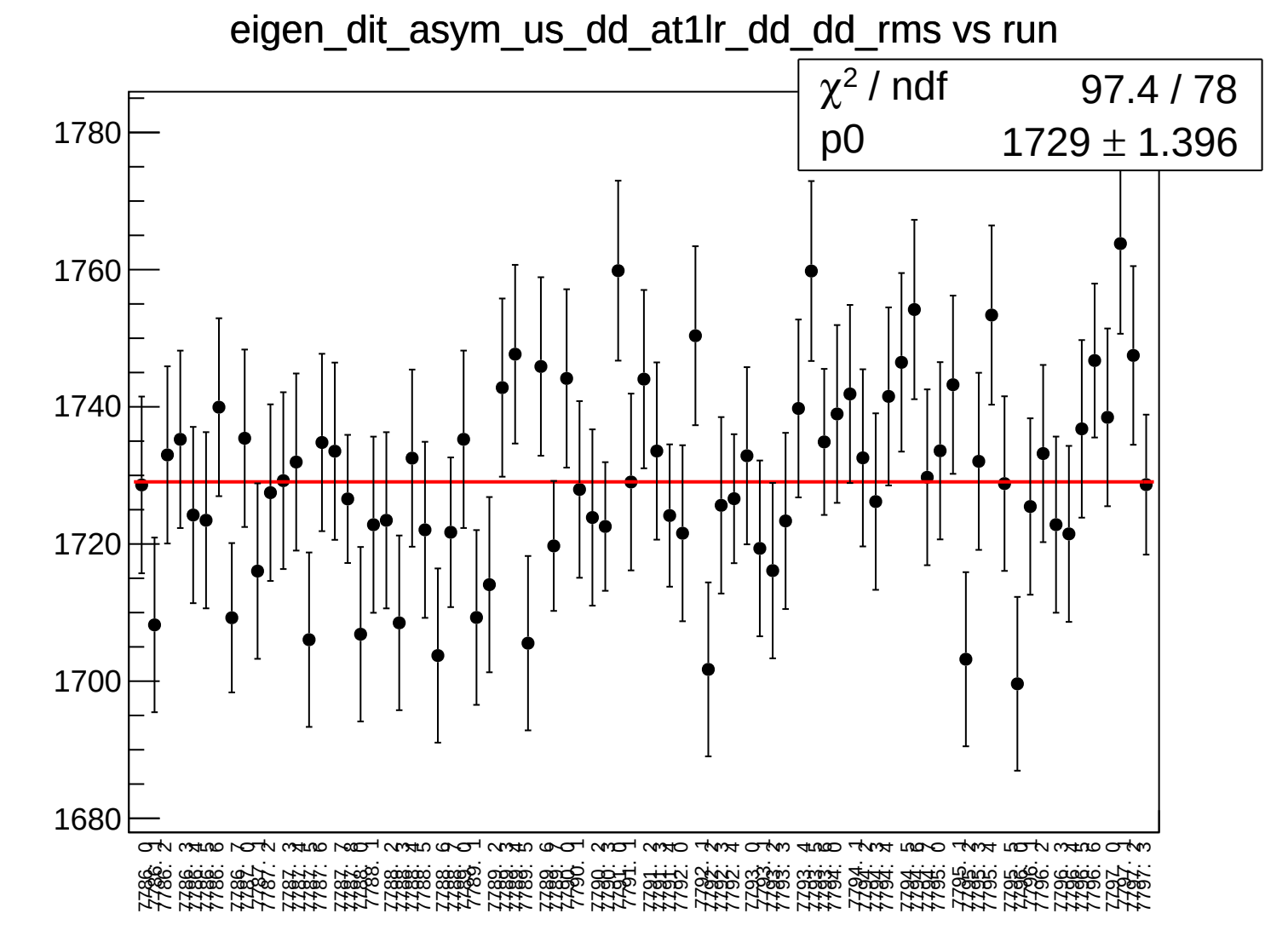

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 71.27 / 78
p0 −4383 ± 2456
pull
Entries 79
Mean 303.3
Std Dev 0

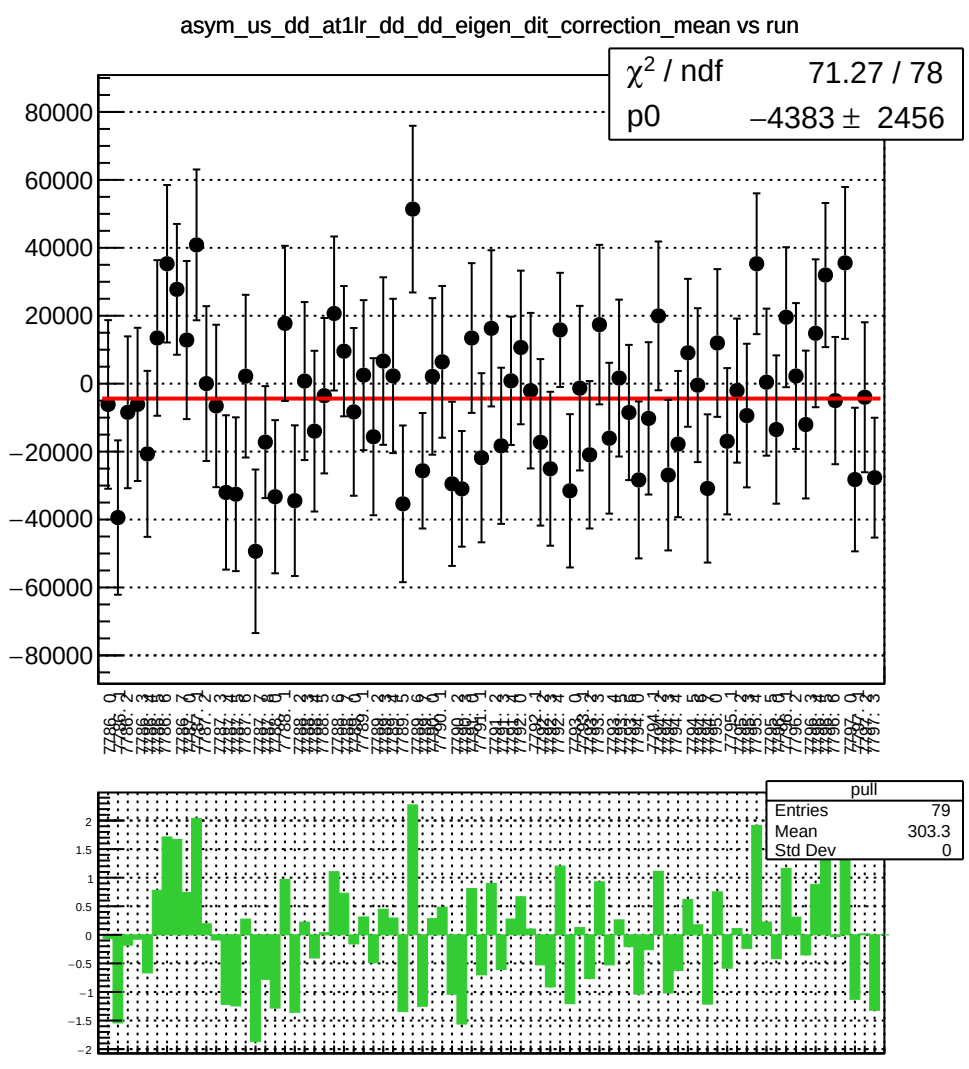

pull1D
Entries 79
Mean 0.004285
Std Dev 0.9498

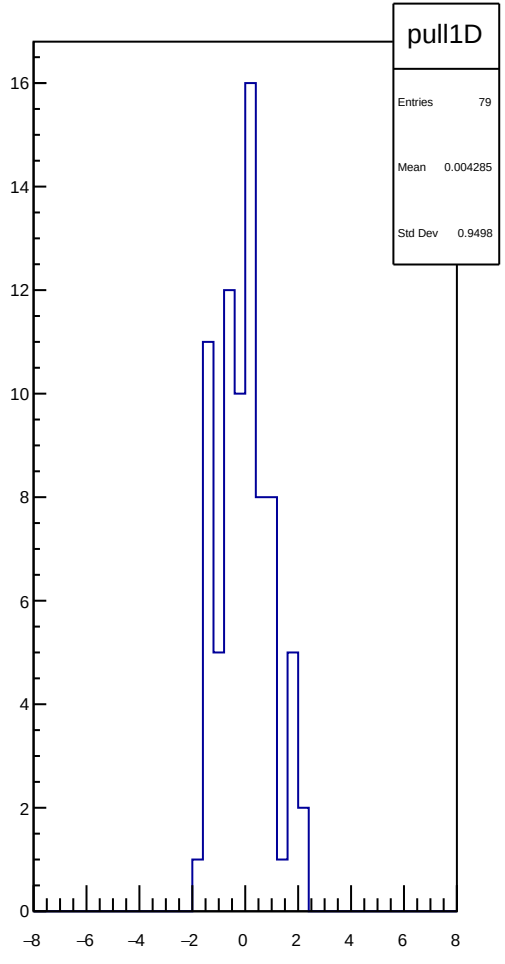

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2672 / 78
p0 2149 ± 1.737
2400
2300
2200
2100
2000
1900

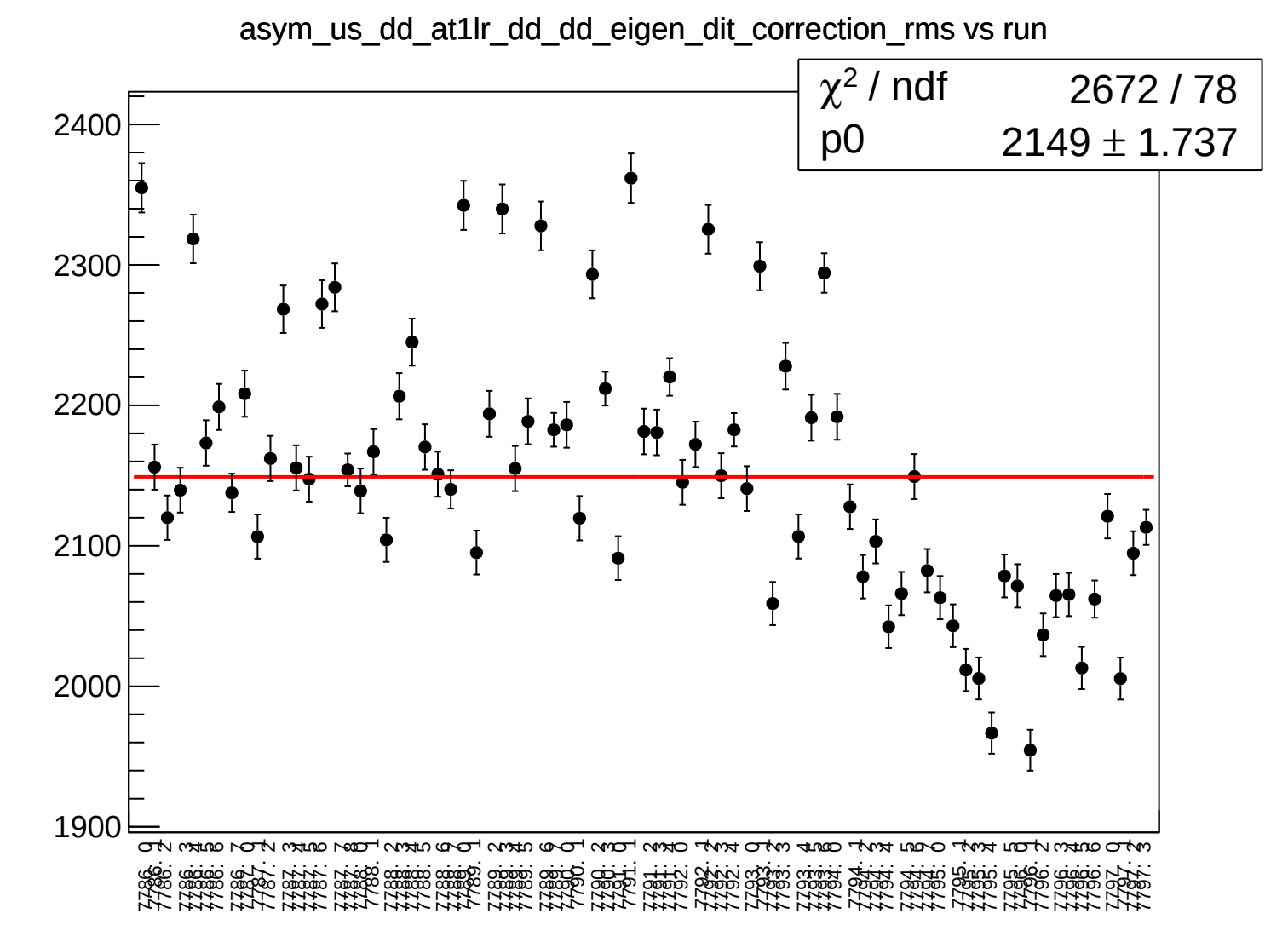

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 58.98 / 78
p0 40.76 ± 1974
pull
Entries 79
Mean 82.92
Std Dev 0

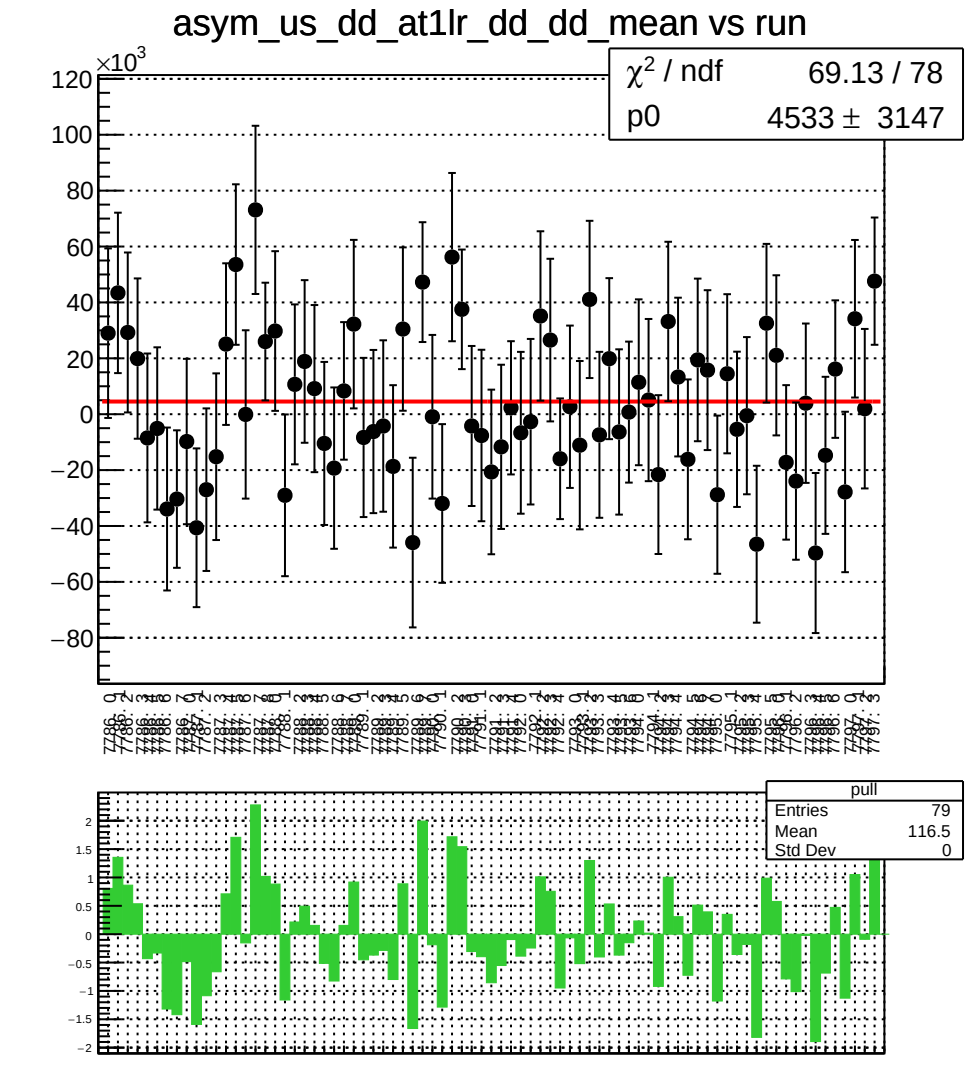

pull1D
Entries 79
Mean −0.0207
Std Dev 0.8638

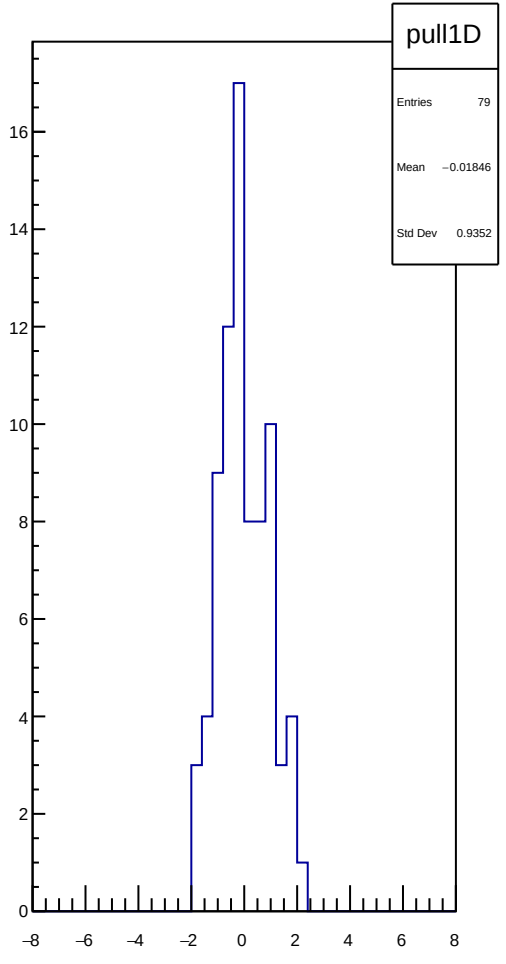

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 97.4 / 78
p0 1729 ± 1.396
1780
1760
1740
1720
1700
1680

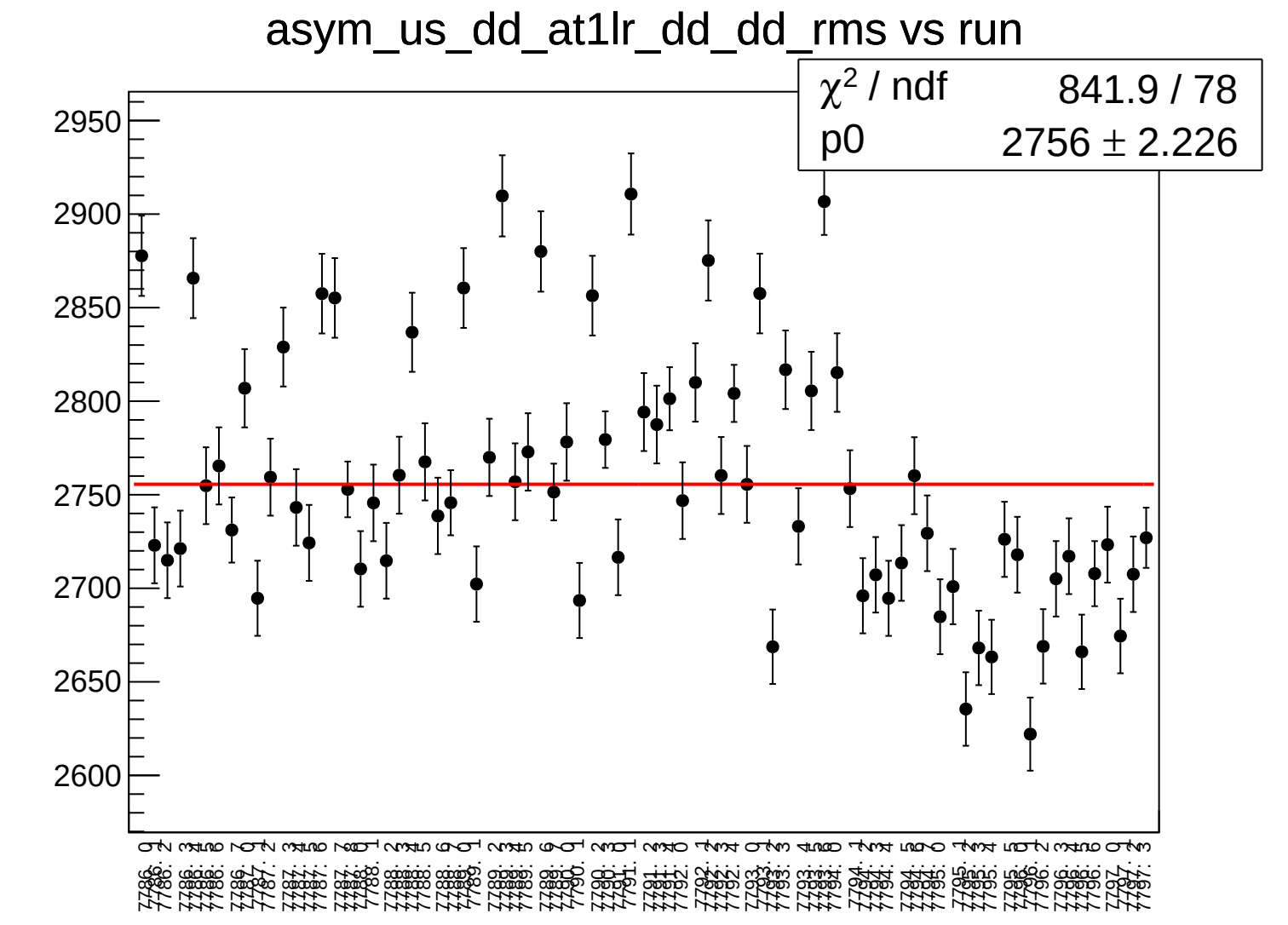

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.27 / 78
p0 −4383 ± 2456
pull
Entries 79
Mean 303.3
Std Dev 0

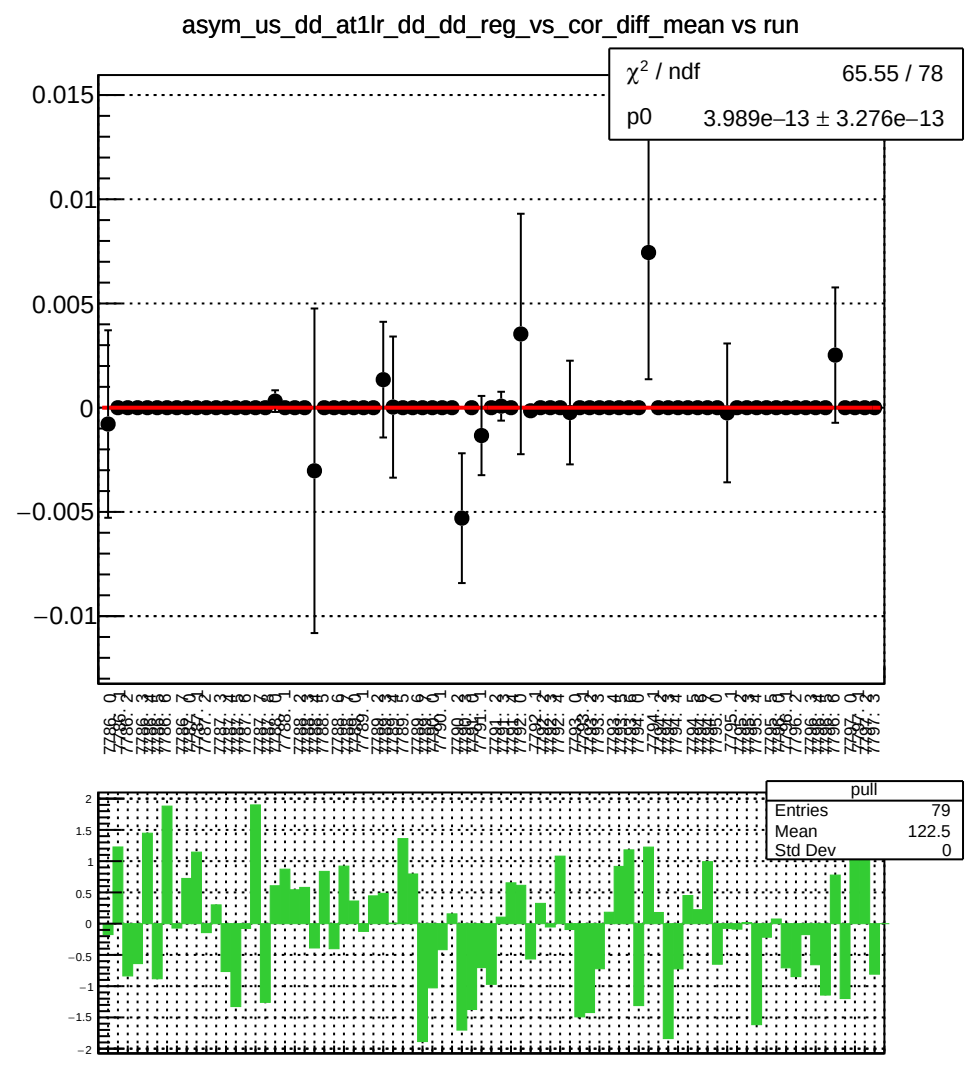

pull1D
Entries 79
Mean 0.004285
Std Dev 0.9498

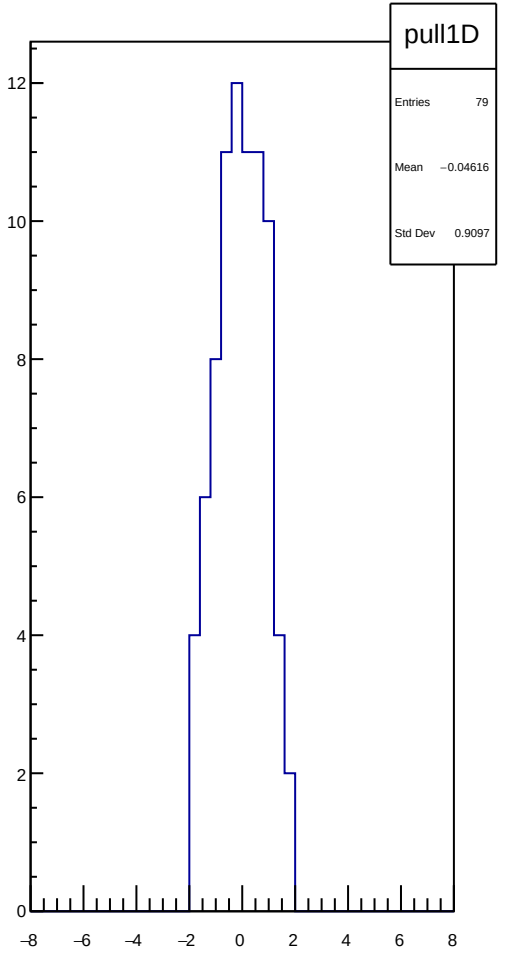

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2672 / 78
p0 2149 ± 1.737
2400
2300
2200
2100
2000
1900

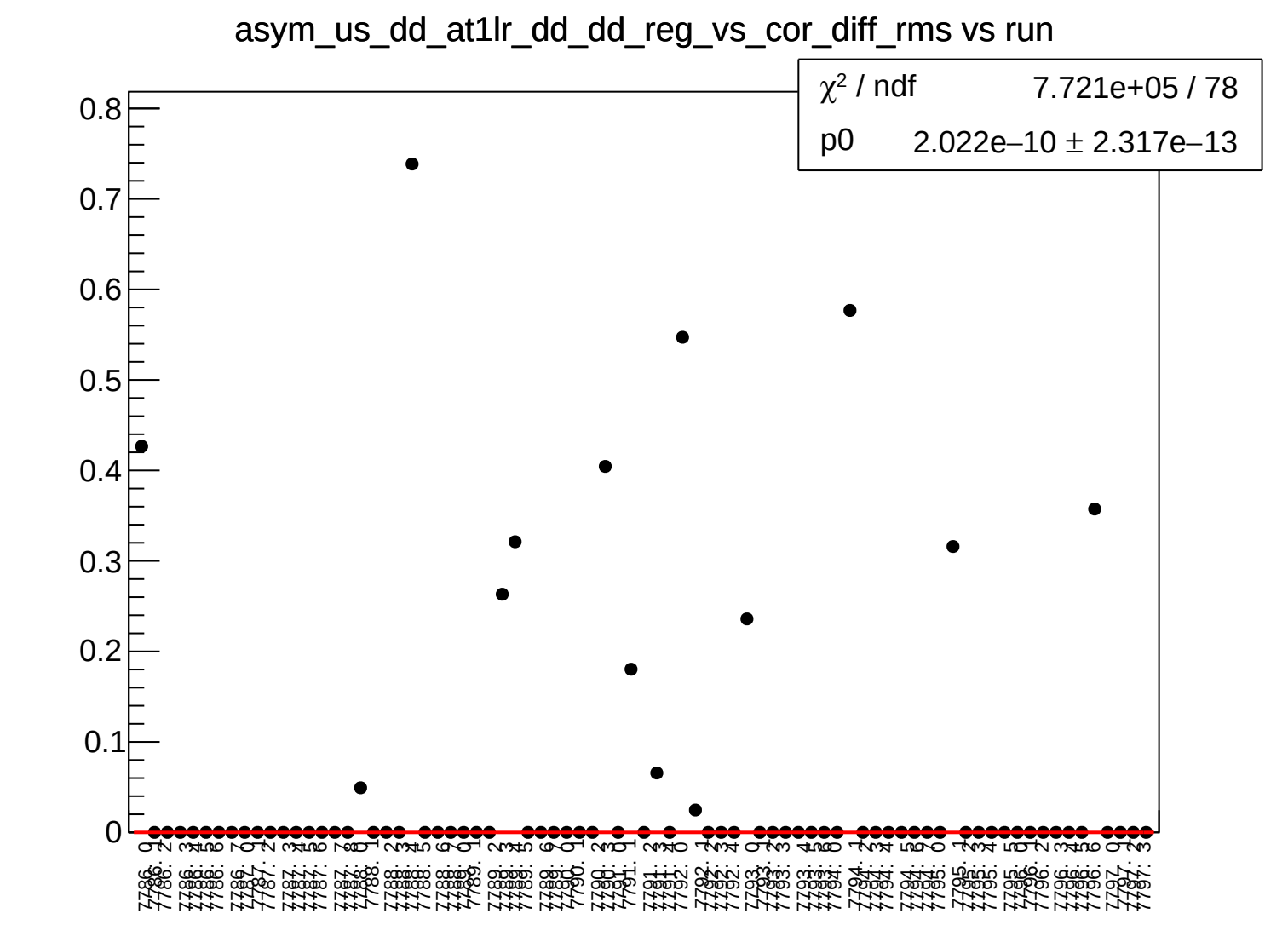

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 69.13 / 78
p0 4533 ± 3147
pull
Entries 79
Mean 116.5
Std Dev 0

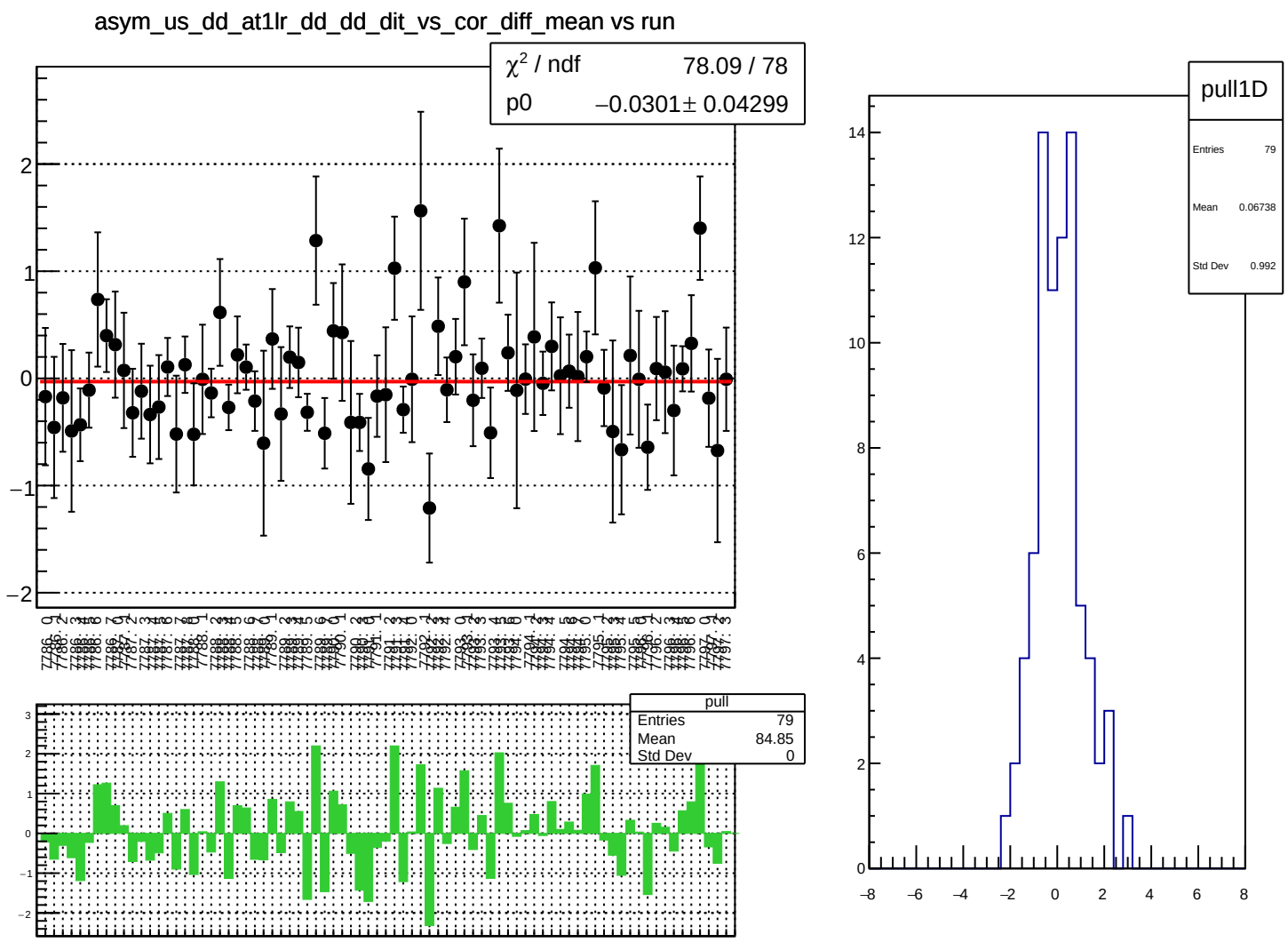

pull1D
Entries 79
Mean −0.01846
Std Dev 0.9352

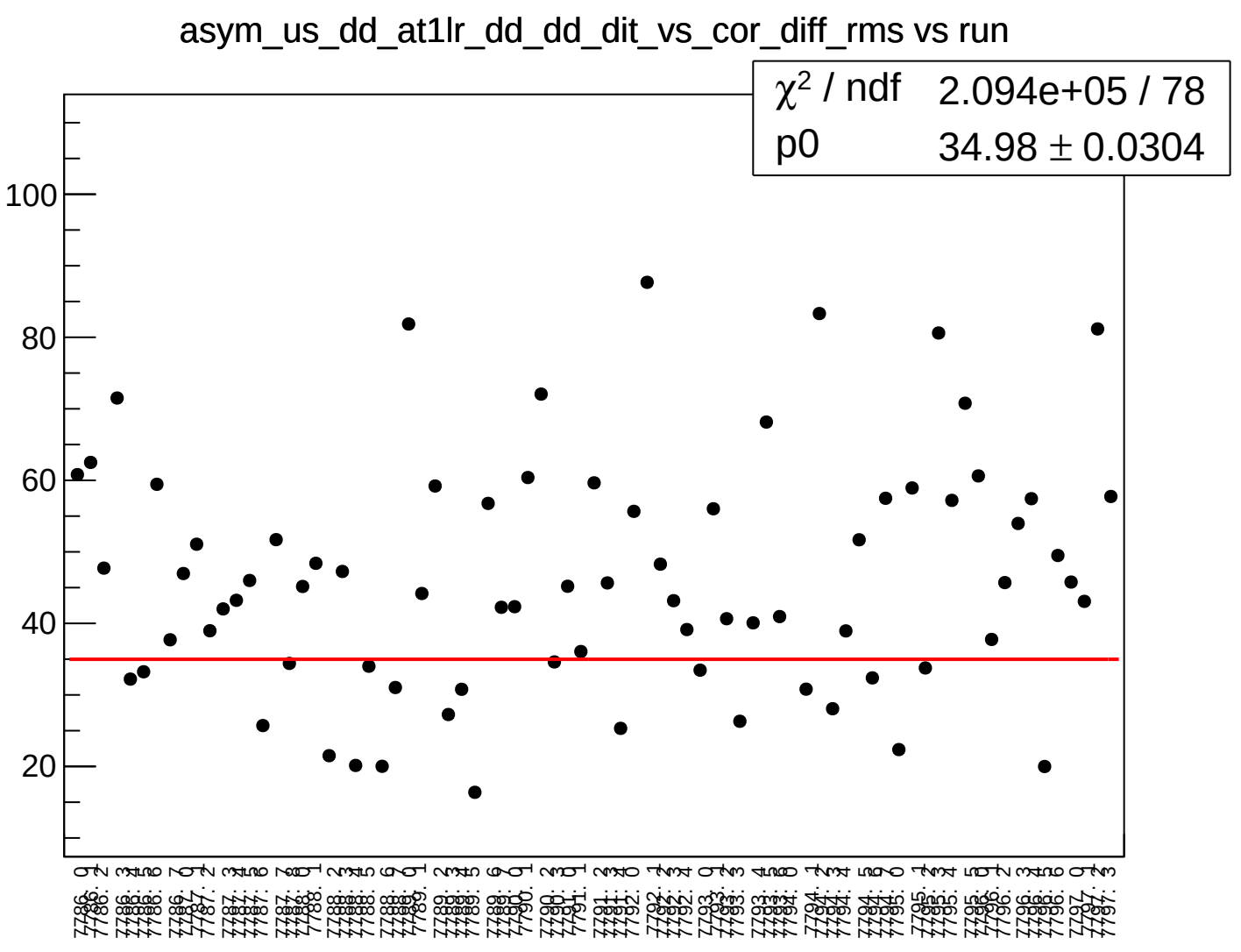

asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 841.9 / 78
p0 2756 ± 2.226
2950
2900
2850
2800
2750
2700
2650
2600

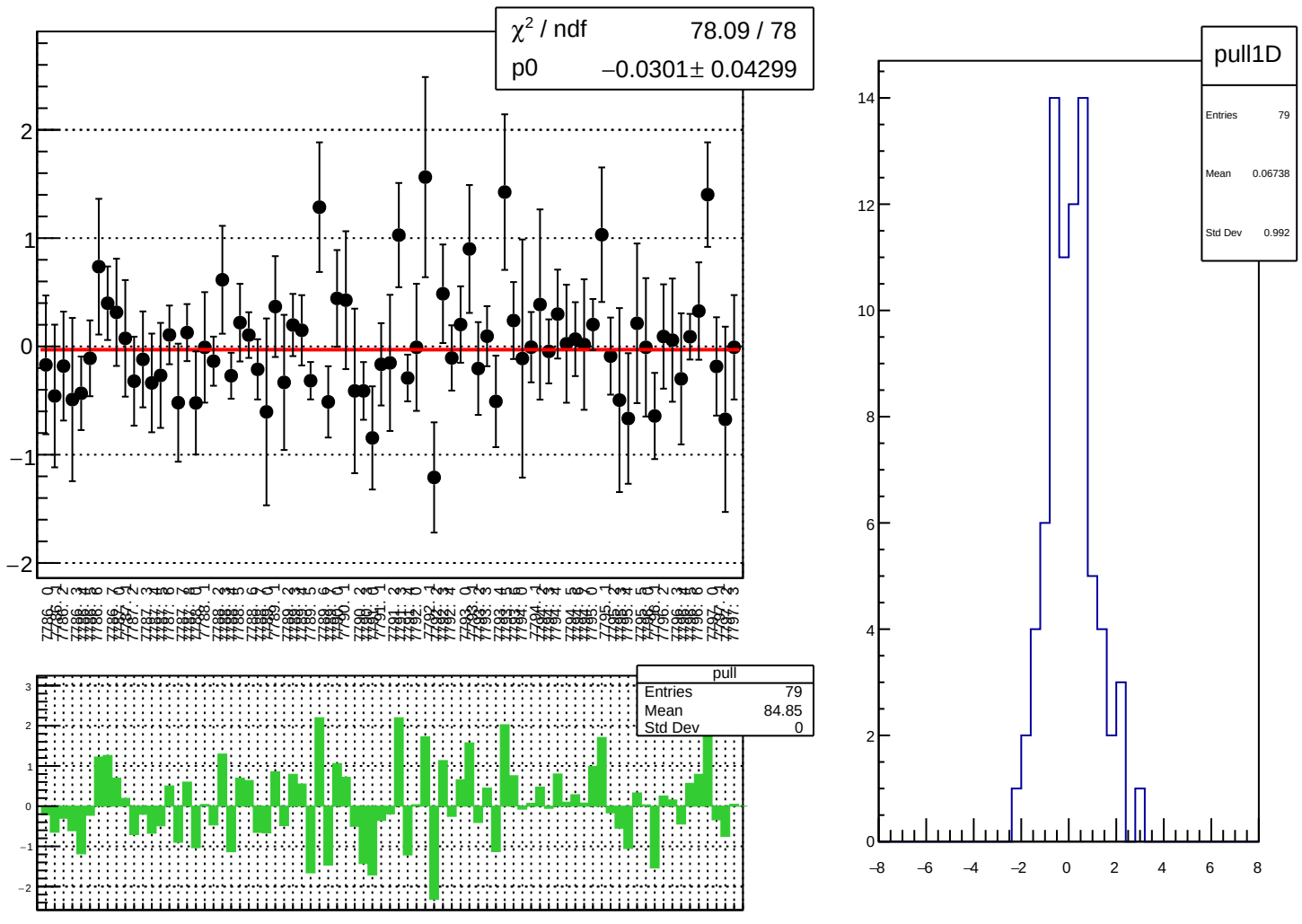

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 65.55 / 78
p0 3.989e−13 ± 3.276e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 79
Mean 122.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

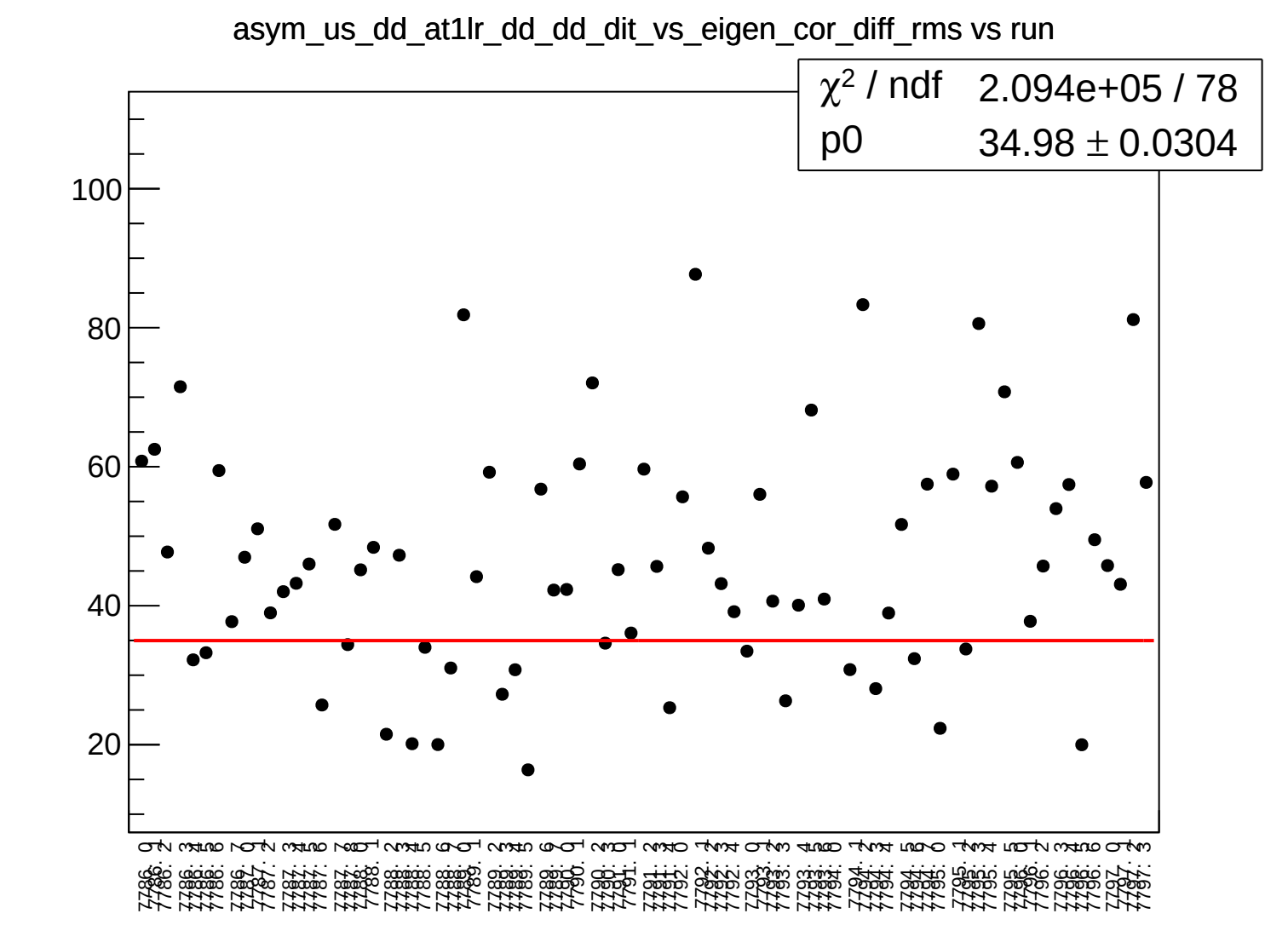

pull1D
Entries 79
Mean −0.04616
Std Dev 0.9097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

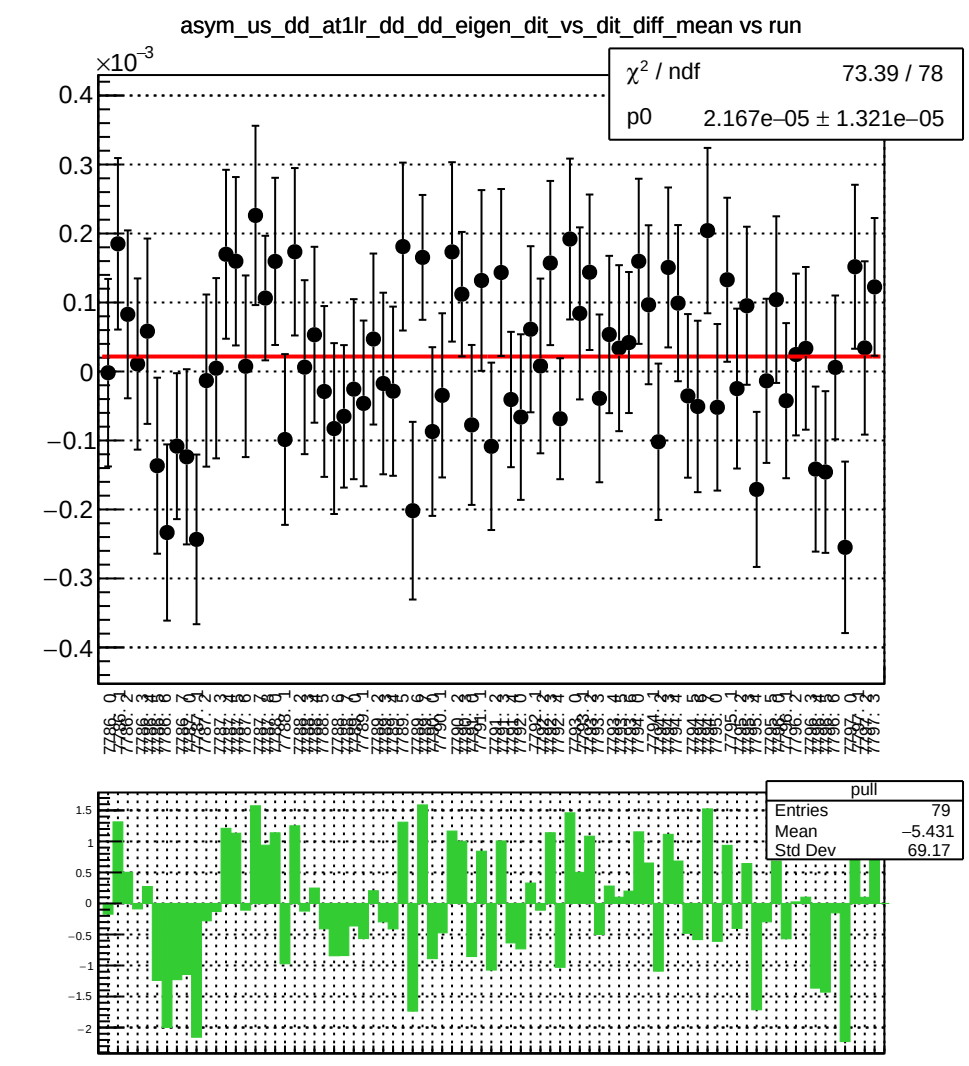

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.721e+05 / 78
p0 2.022e−10 ± 2.317e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

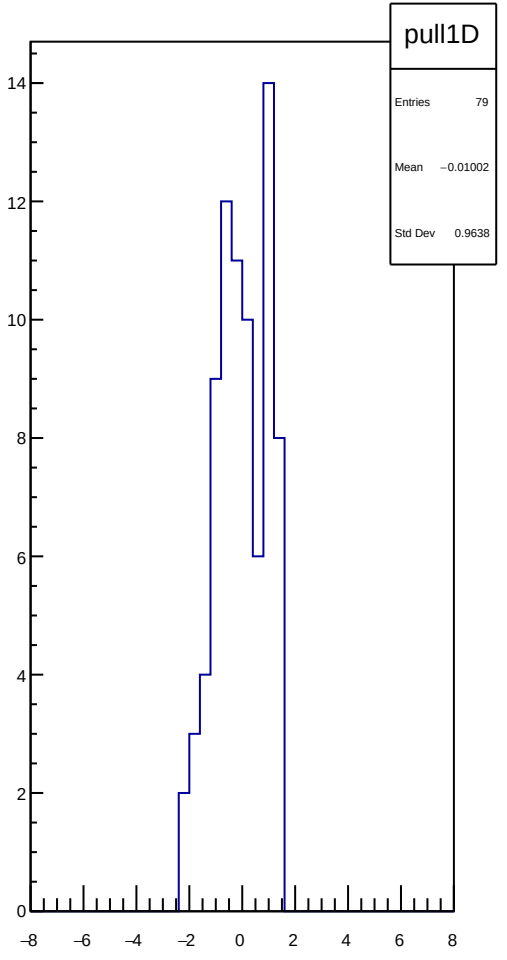

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.09 / 78
p0 −0.0301± 0.04299
pull
Entries 79
Mean 84.85
Std Dev 0
pull1D
Entries 79
Mean 0.06738
Std Dev 0.992

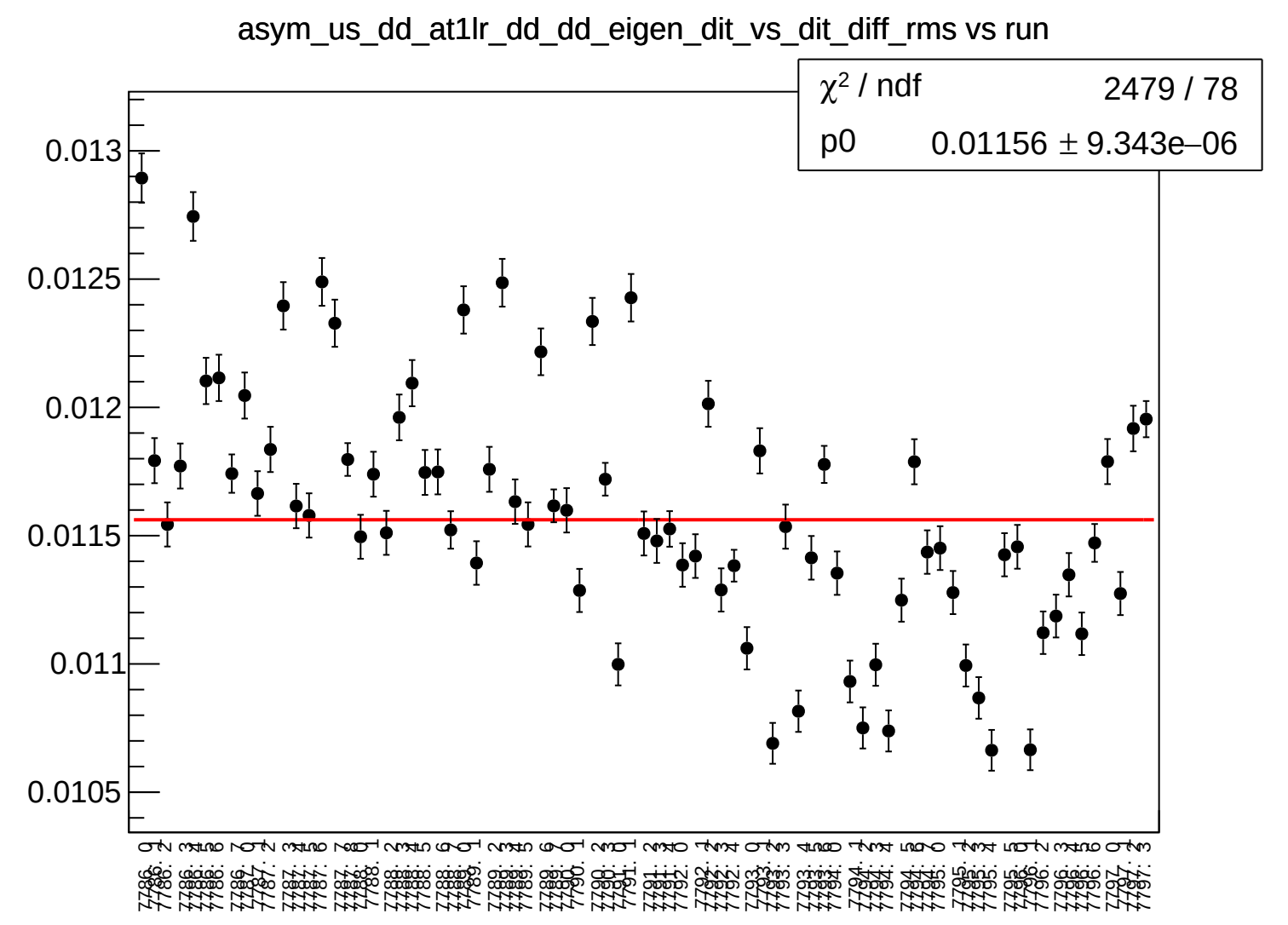

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.094e+05 / 78
p0 34.98 ± 0.0304
100
80
60
40
20

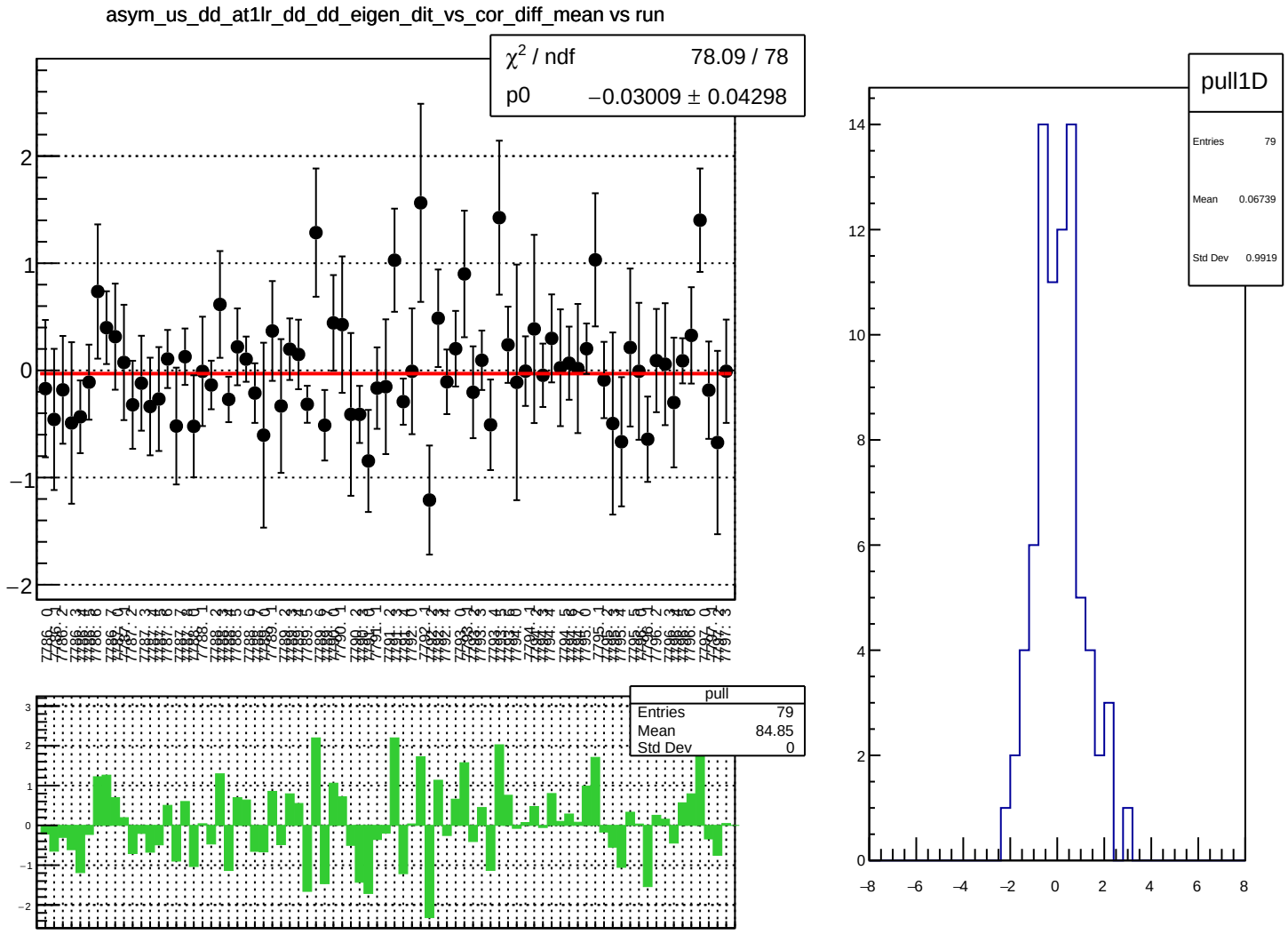

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.09 / 78
p0 −0.0301± 0.04299
pull
Entries 79
Mean 84.85
Std Dev 0
pull1D
Entries 79
Mean 0.06738
Std Dev 0.992

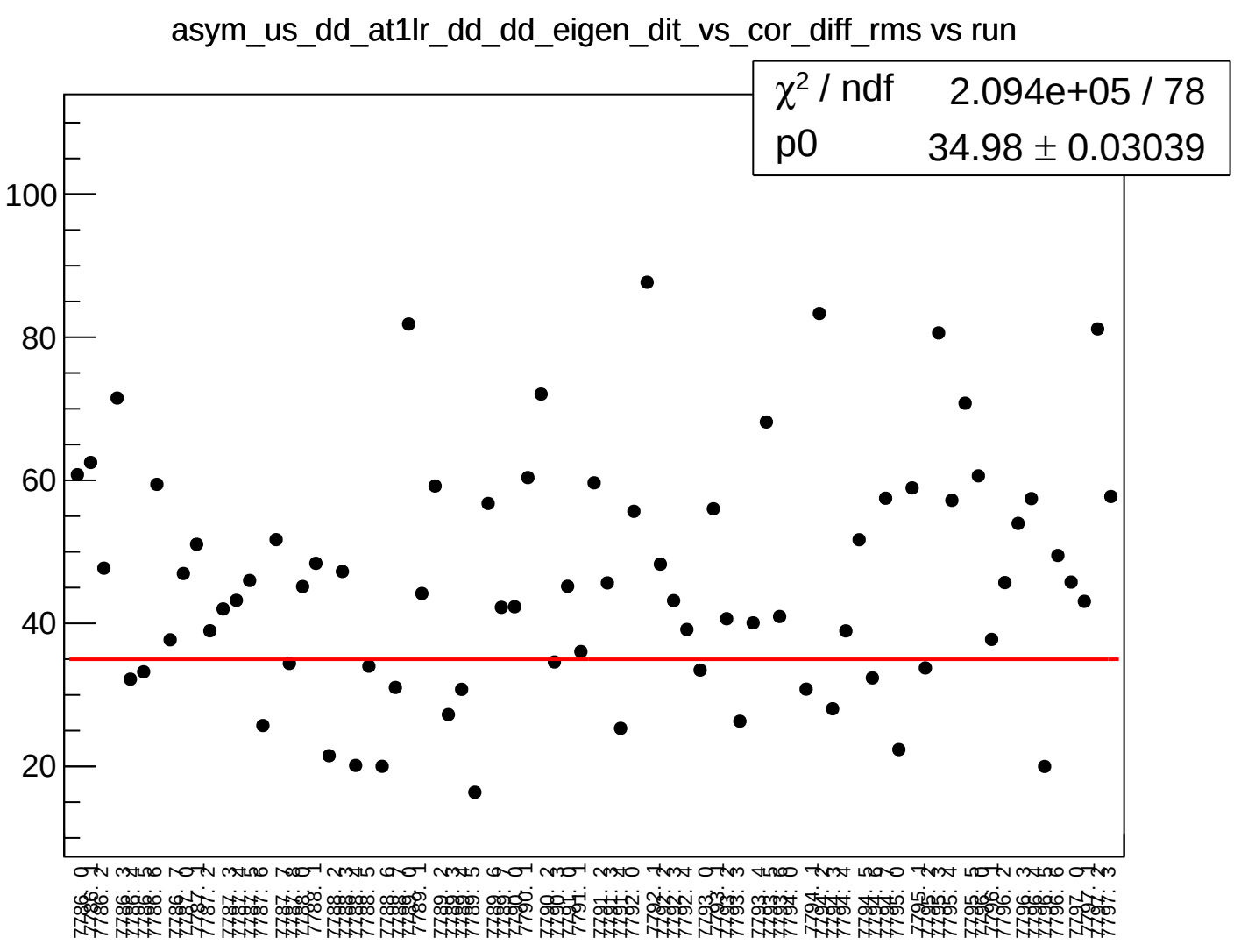

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.094e+05 / 78
p0 34.98 ± 0.0304
100
80
60
40
20

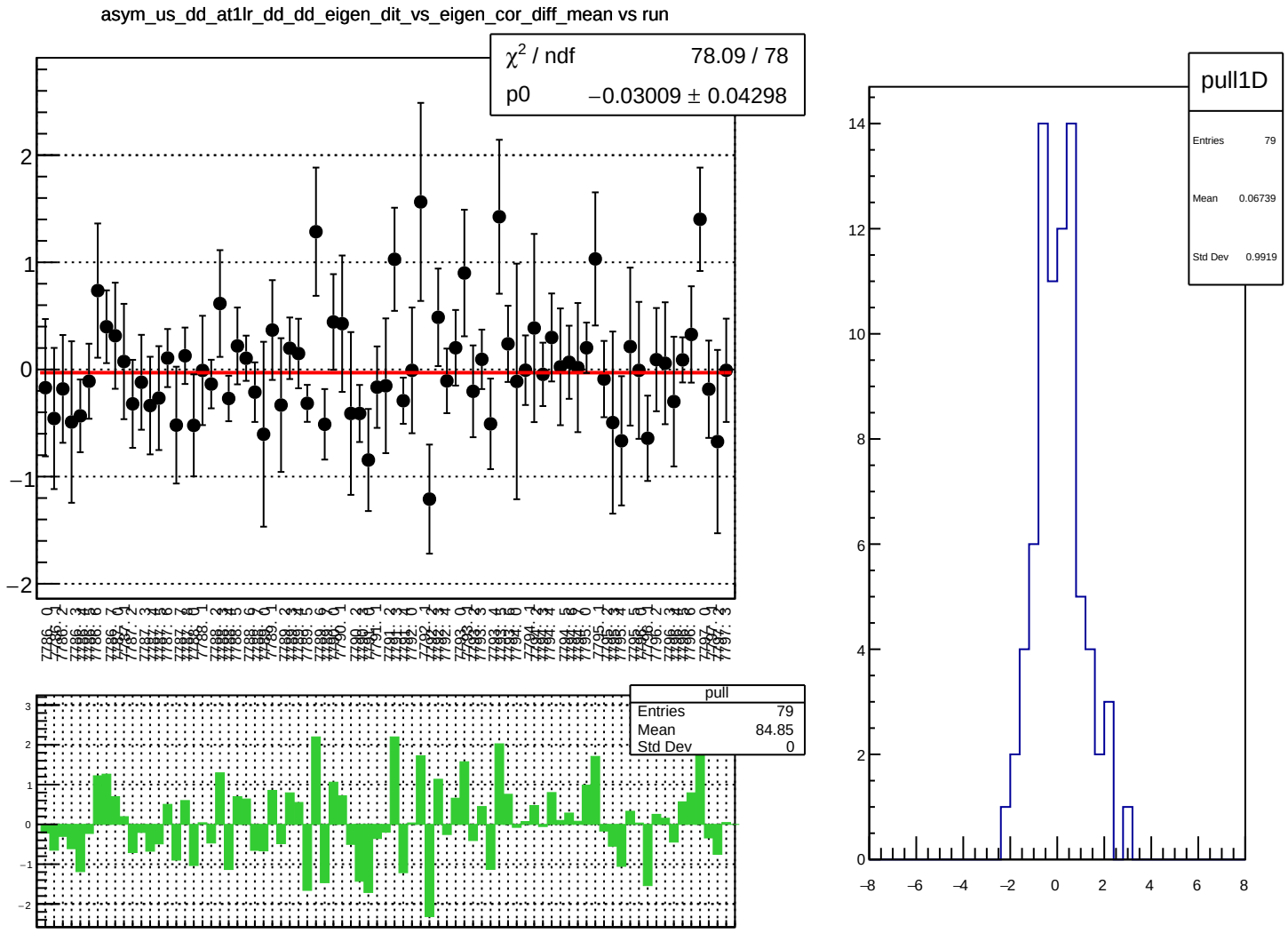

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.39 / 78
p0 2.167e−05 ± 1.321e−05
pull
Entries 79
Mean −5.431
Std Dev 69.17

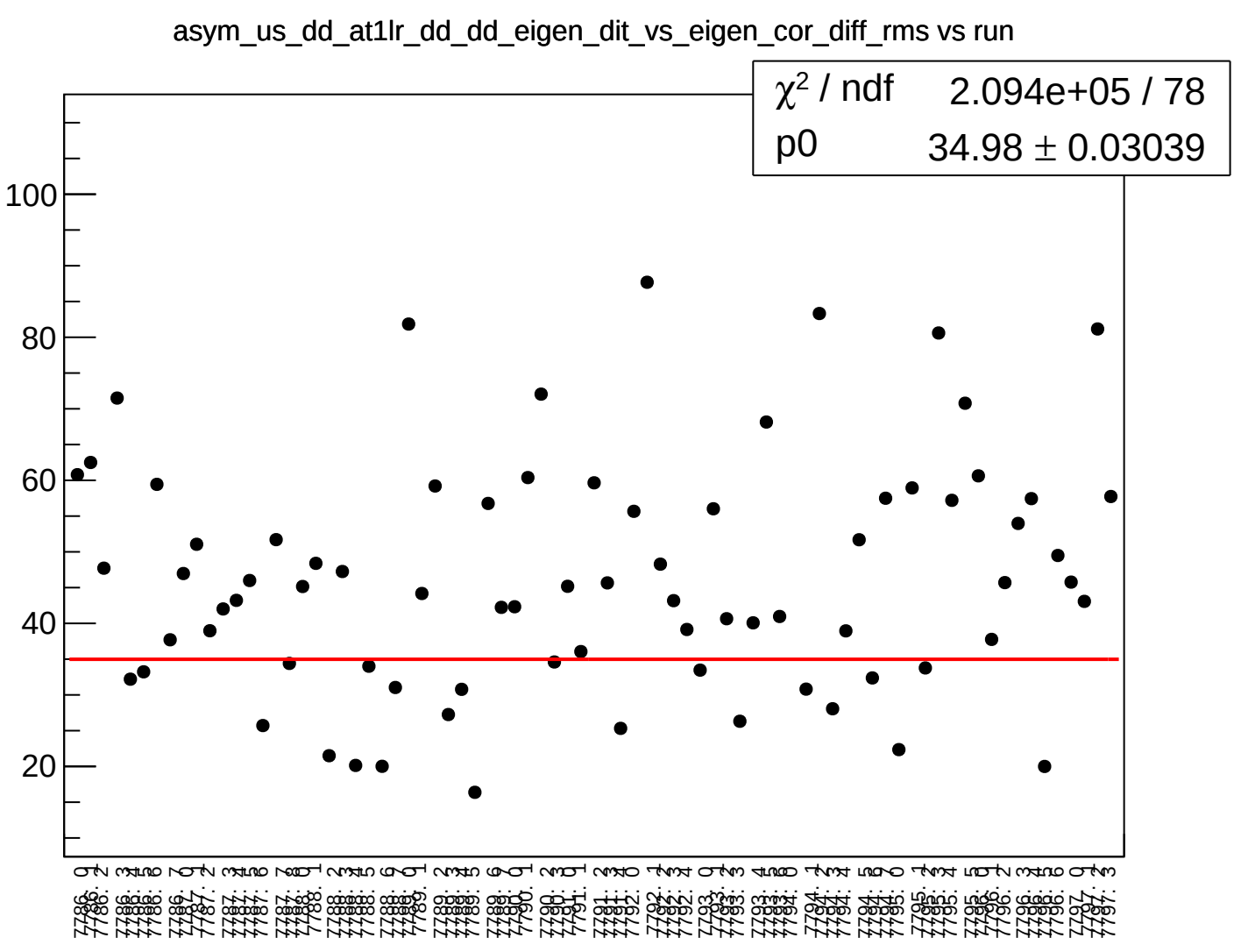

pull1D
Entries 79
Mean −0.01002
Std Dev 0.9638

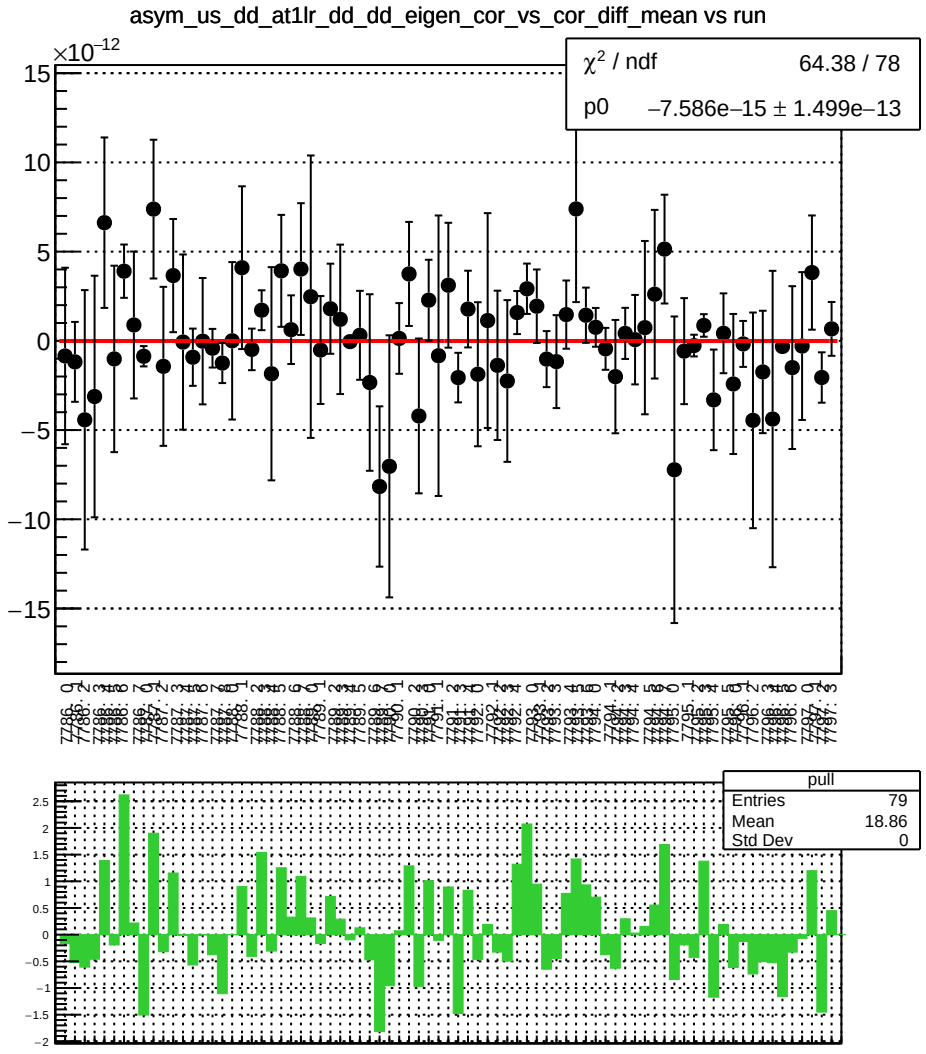

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2479 / 78
p0 0.01156 ± 9.343e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105

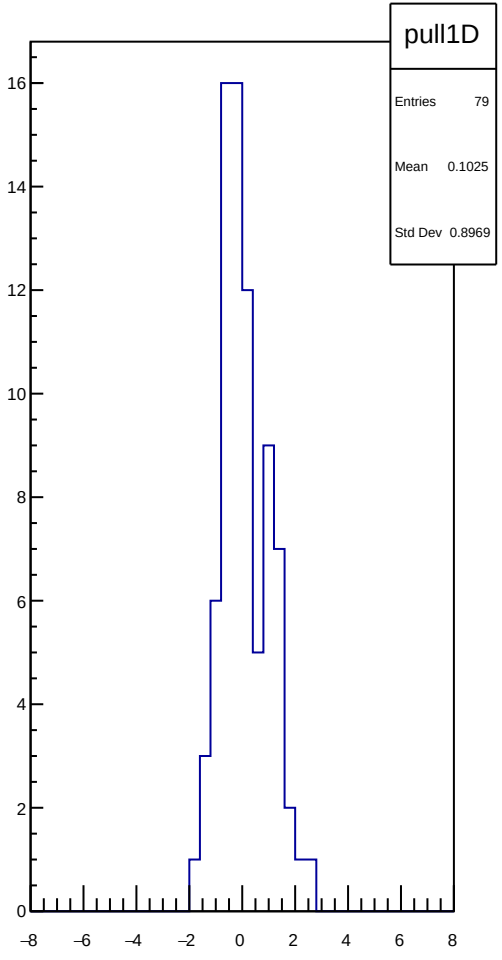

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.09 / 78
p0 −0.03009 ± 0.04298
pull
Entries 79
Mean 84.85
Std Dev 0
pull1D
Entries 79
Mean 0.06739
Std Dev 0.9919

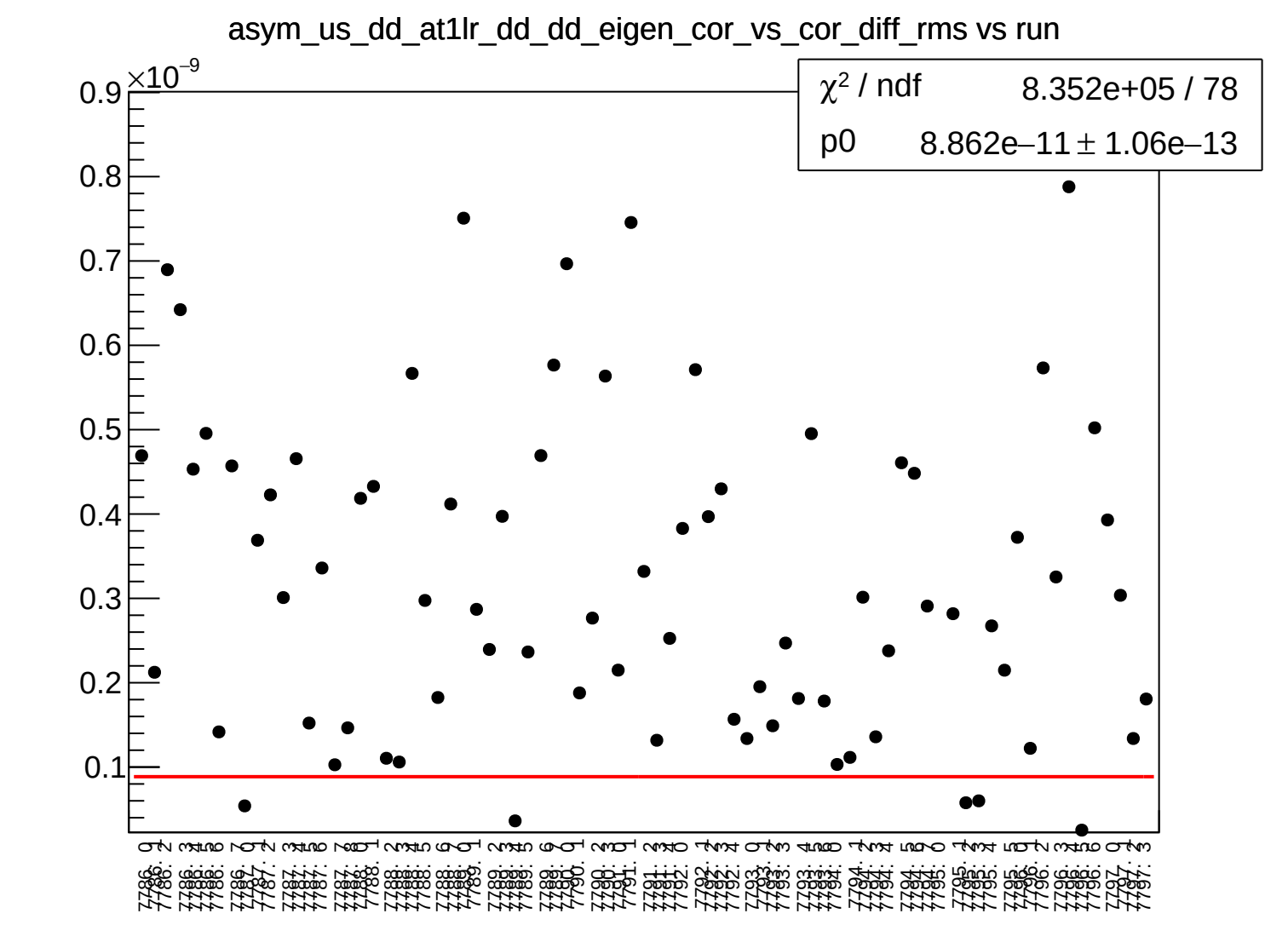

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.094e+05 / 78
p0 34.98 ± 0.03039
100
80
60
40
20

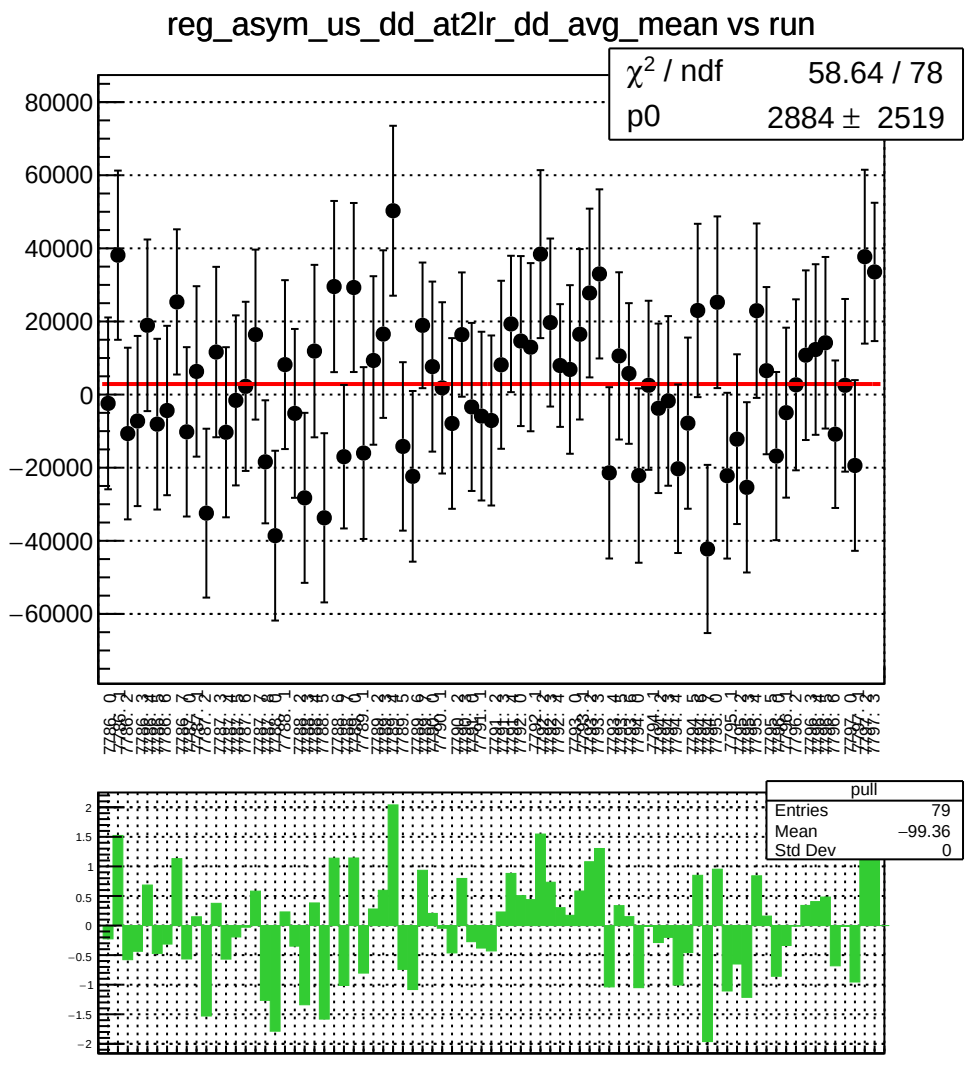

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.09 / 78
p0 −0.03009 ± 0.04298
pull
Entries 79
Mean 84.85
Std Dev 0
pull1D
Entries 79
Mean 0.06739
Std Dev 0.9919

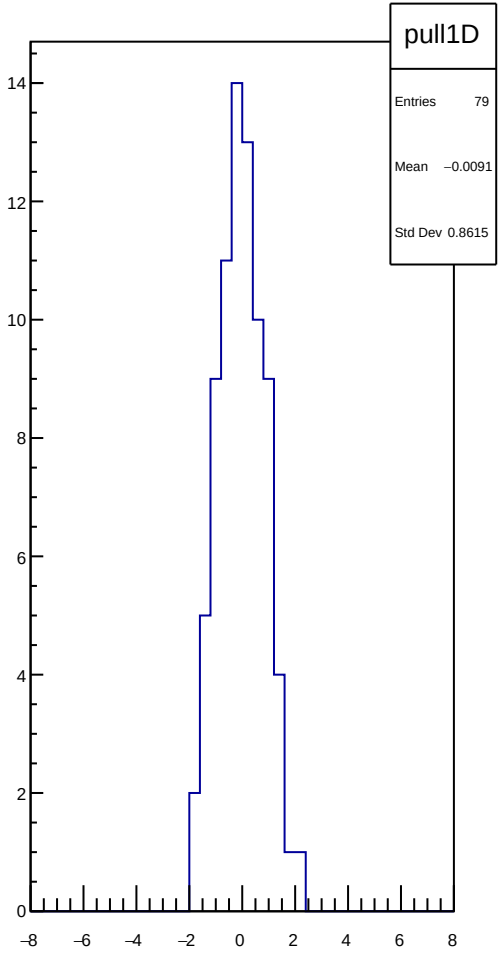

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.094e+05 / 78
p0 34.98 ± 0.03039
100
80
60
40
20

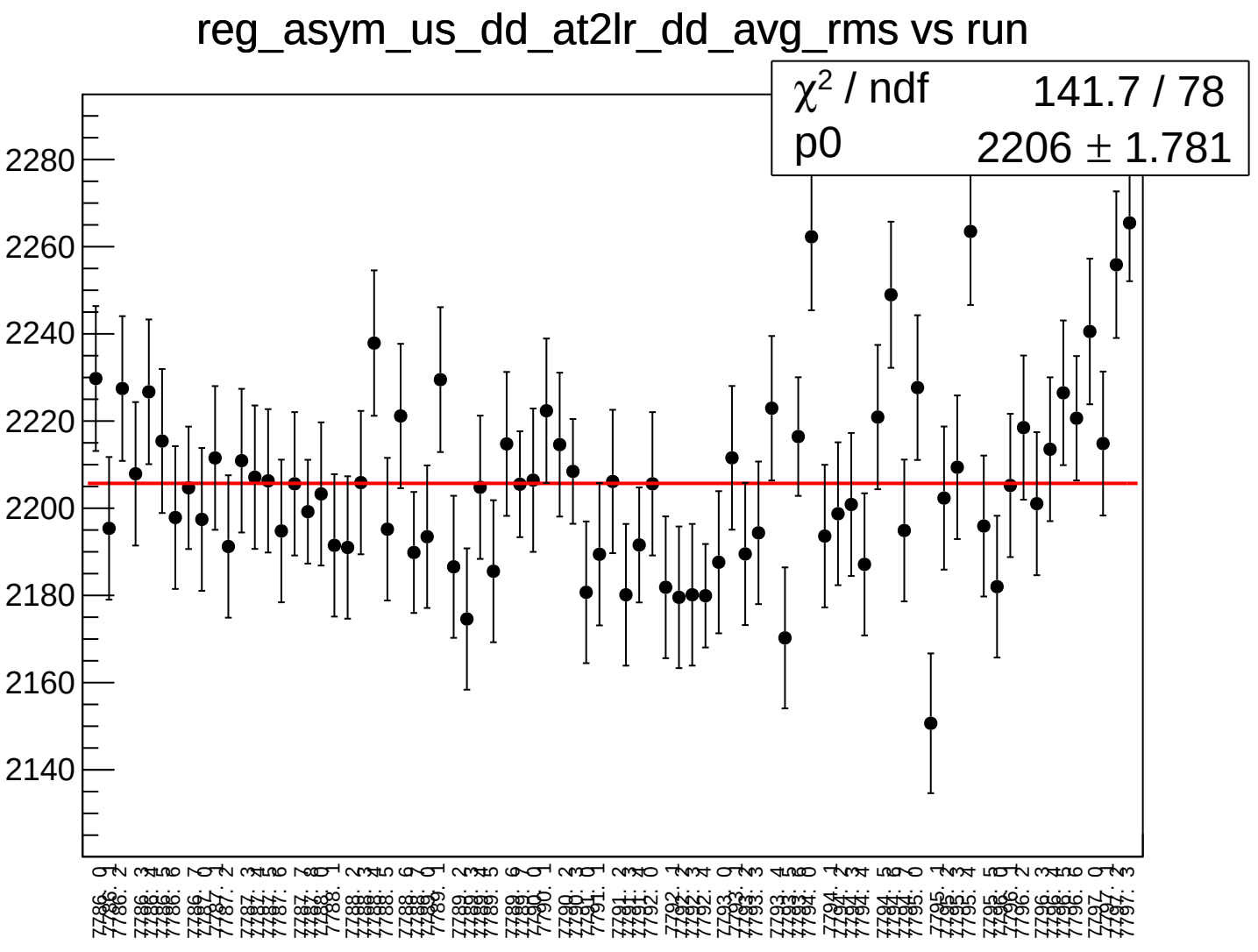

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.38 / 78
p0 −7.586e−15 ± 1.499e−13
pull
Entries 79
Mean 18.86
Std Dev 0

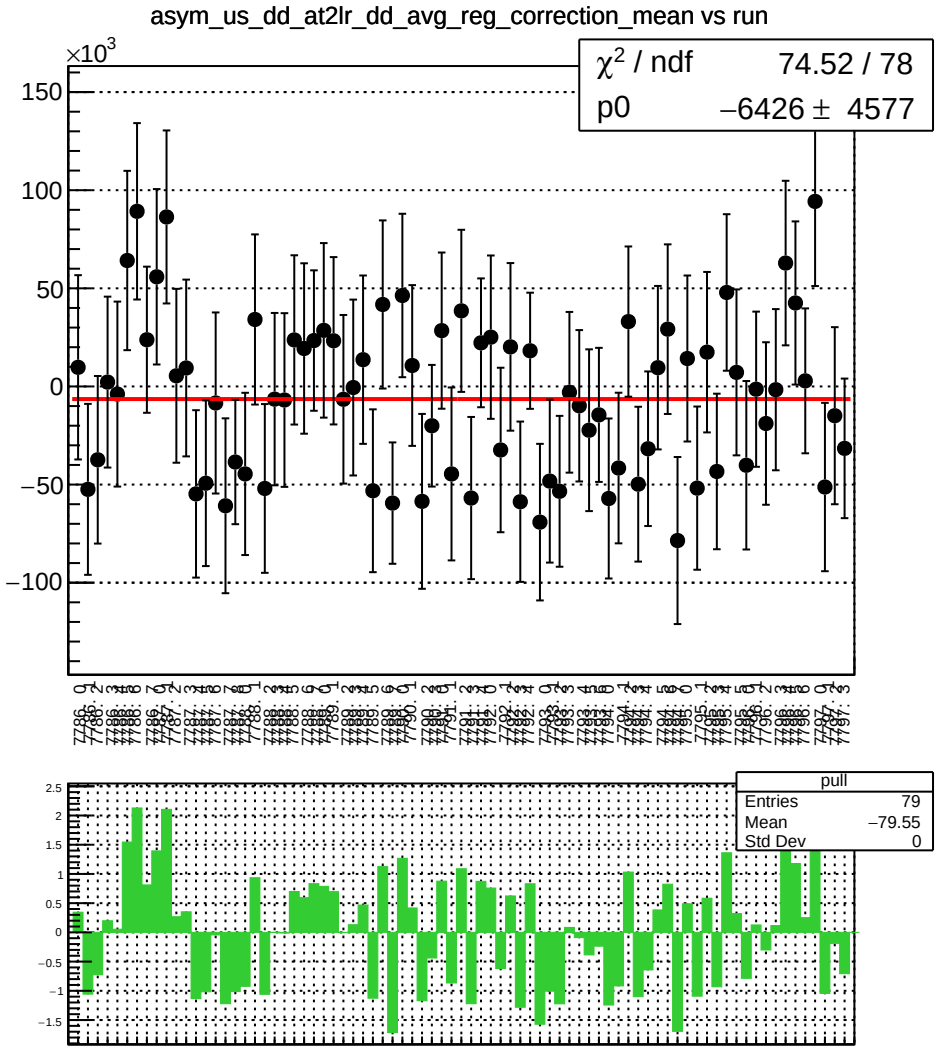

pull1D
Entries 79
Mean 0.1025
Std Dev 0.8969

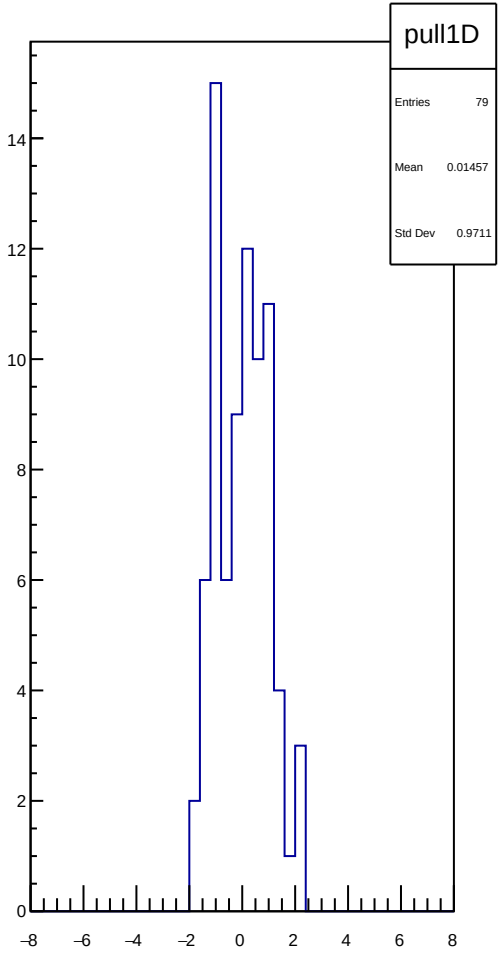

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.352e+05 / 78
p0 8.862e−11 ± 1.06e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

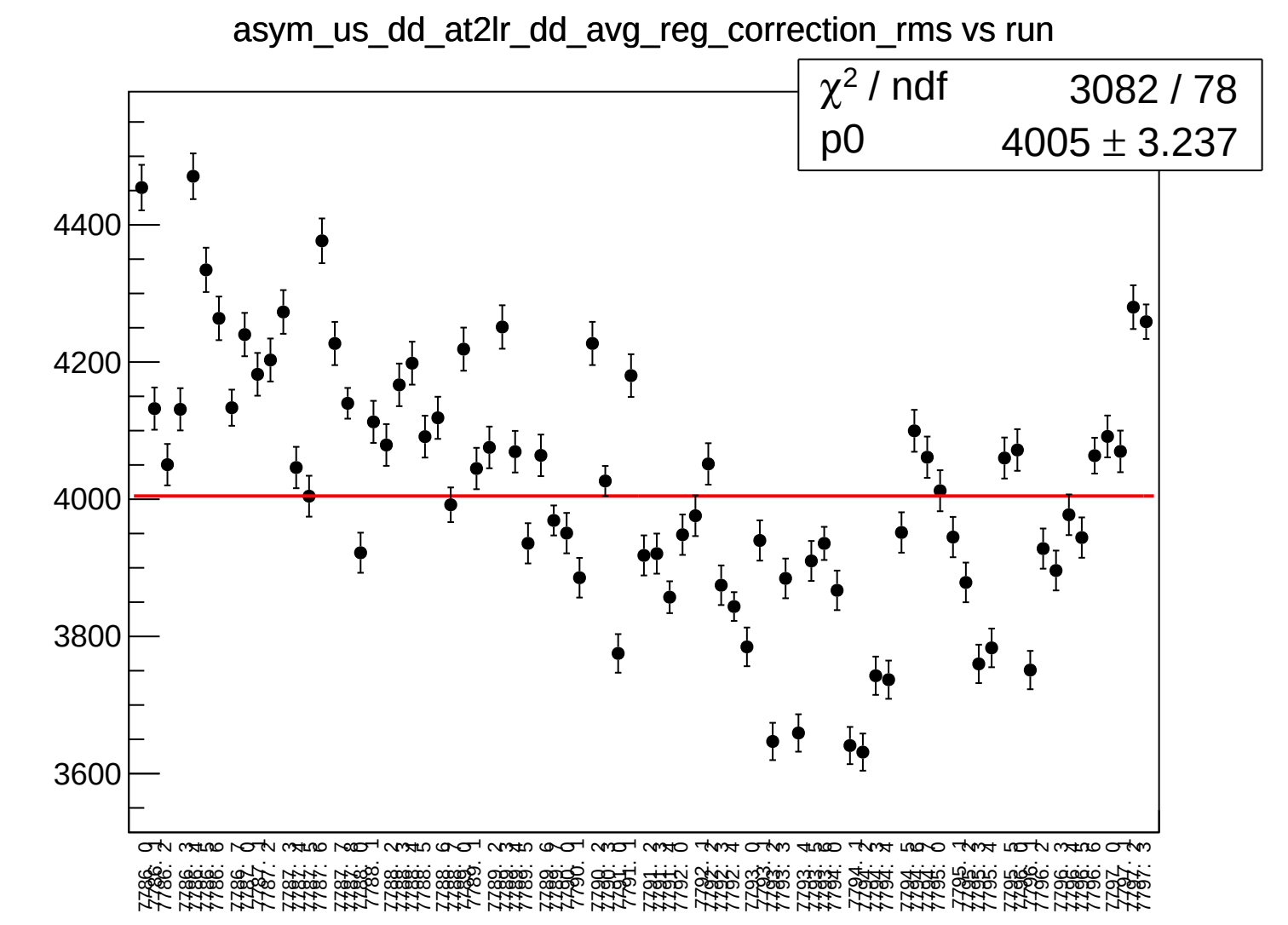

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 58.64 / 78
p0 2884 ± 2519
pull
Entries 79
Mean −99.36
Std Dev 0

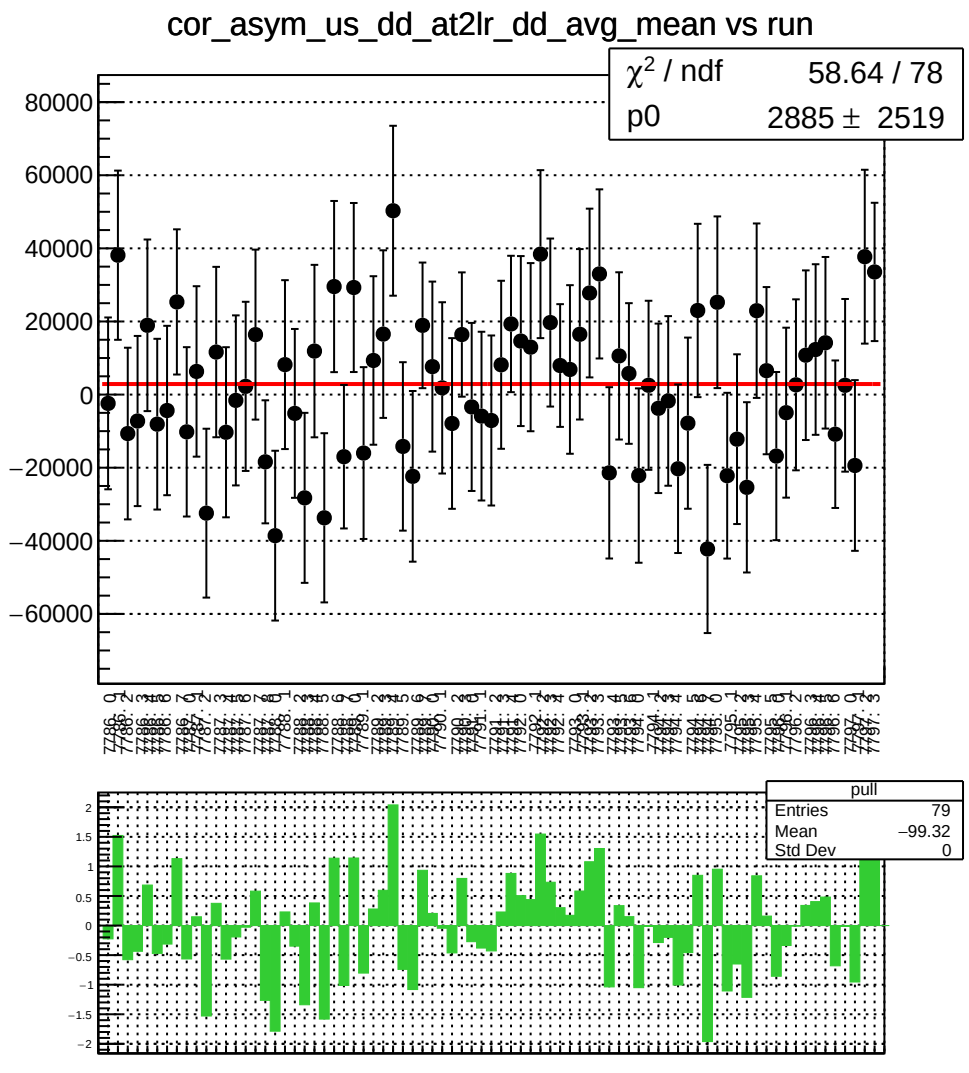

pull1D
Entries 79
Mean −0.0091
Std Dev 0.8615

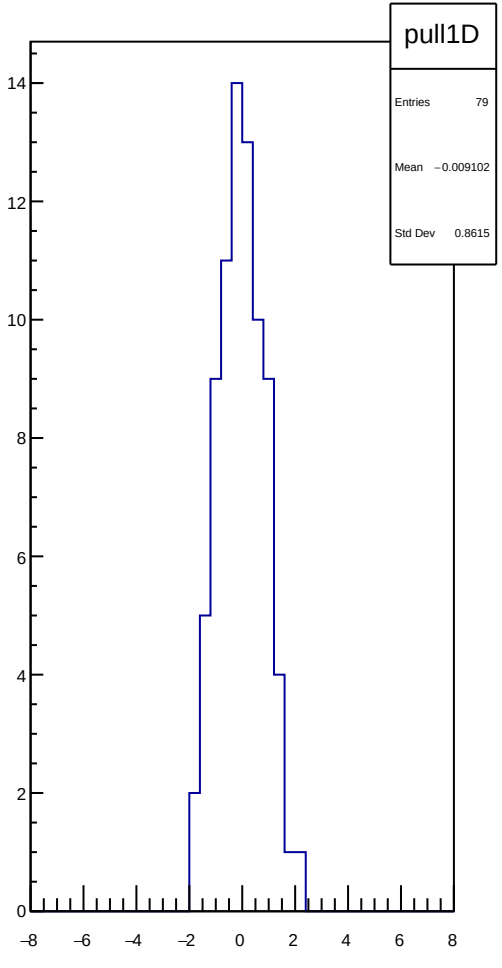

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 141.7 / 78
p0 2206 ± 1.781
2280
2260
2240
2220
2200
2180
2160
2140

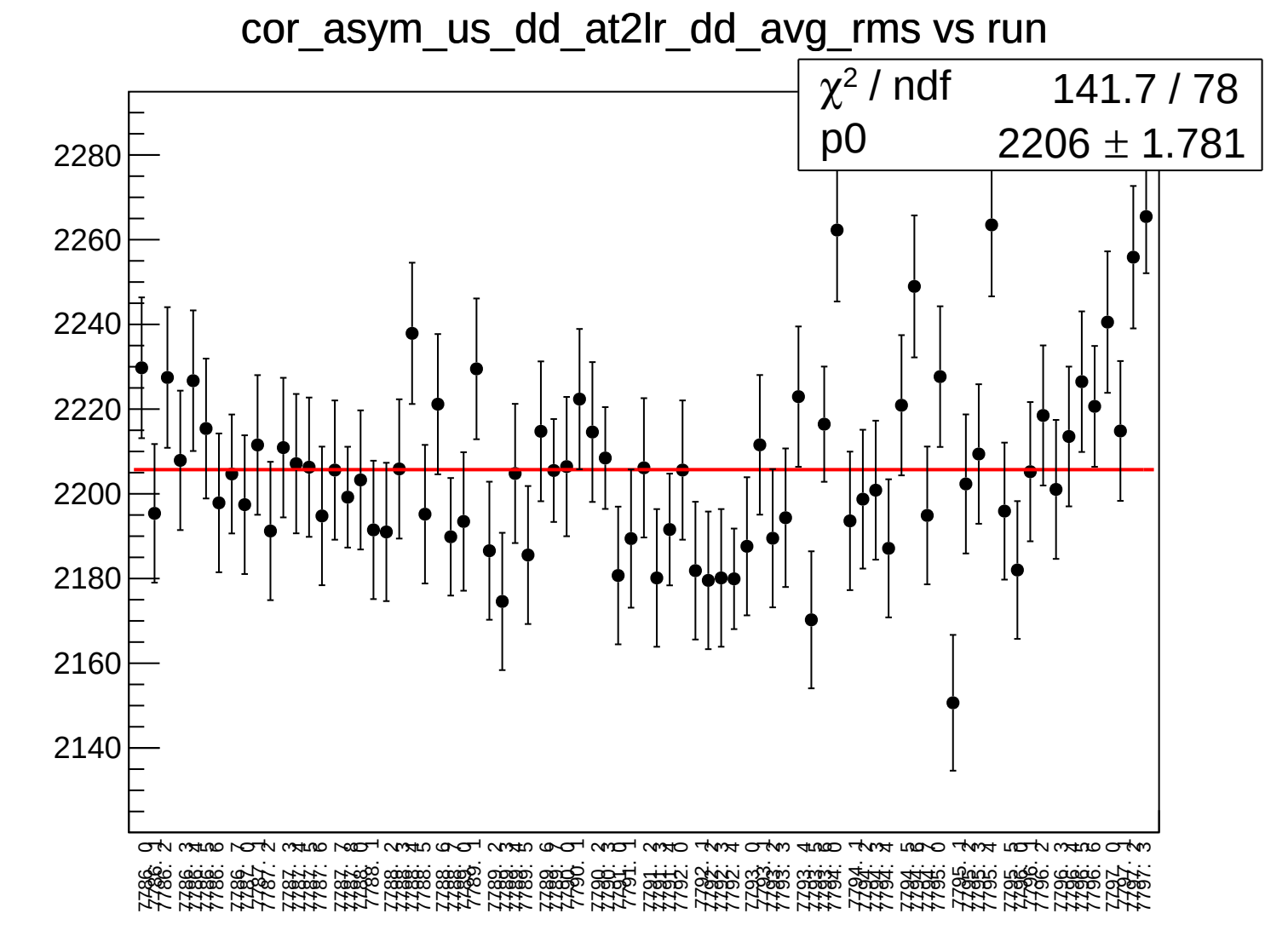

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 74.52 / 78
p0 −6426 ± 4577
150
100
50
0
−50
−100
pull
Entries 79
Mean −79.55
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

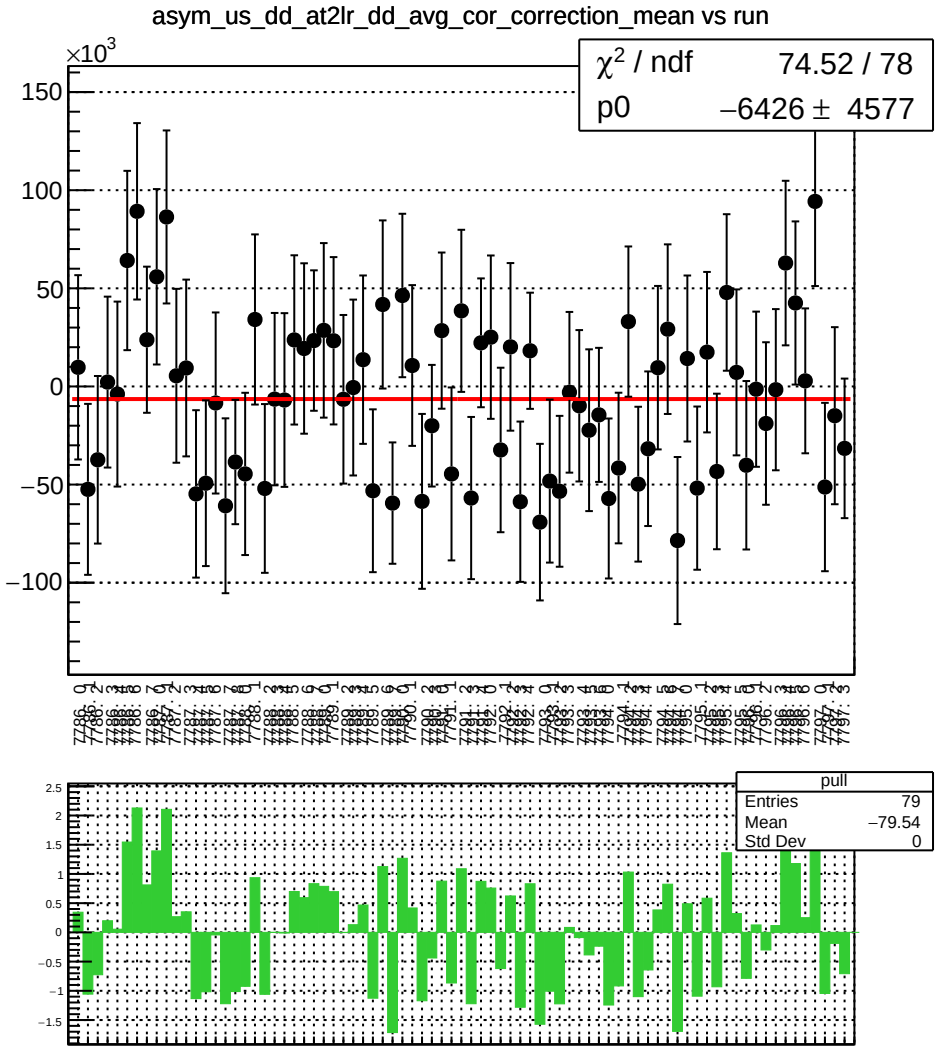

pull1D
Entries 79
Mean 0.01457
Std Dev 0.9711
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

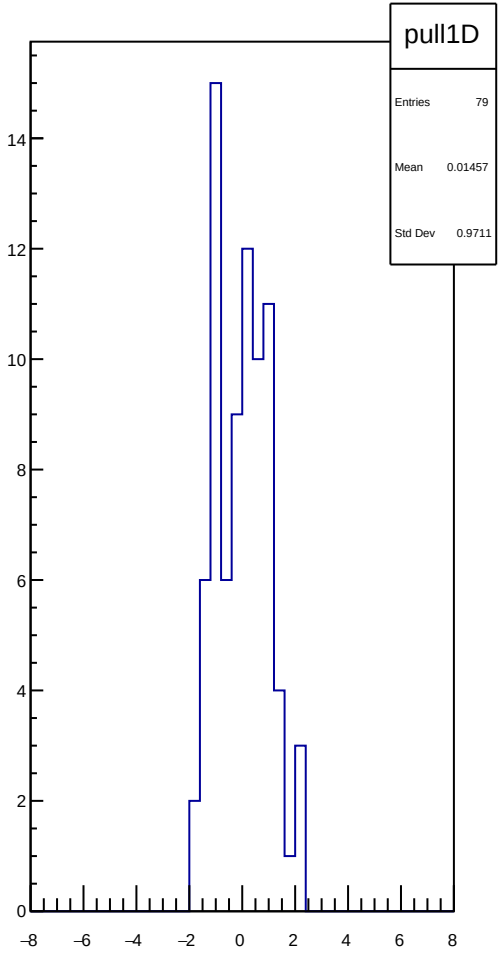

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3082 / 78
p0 4005 ± 3.237
4400
4200
4000
3800
3600

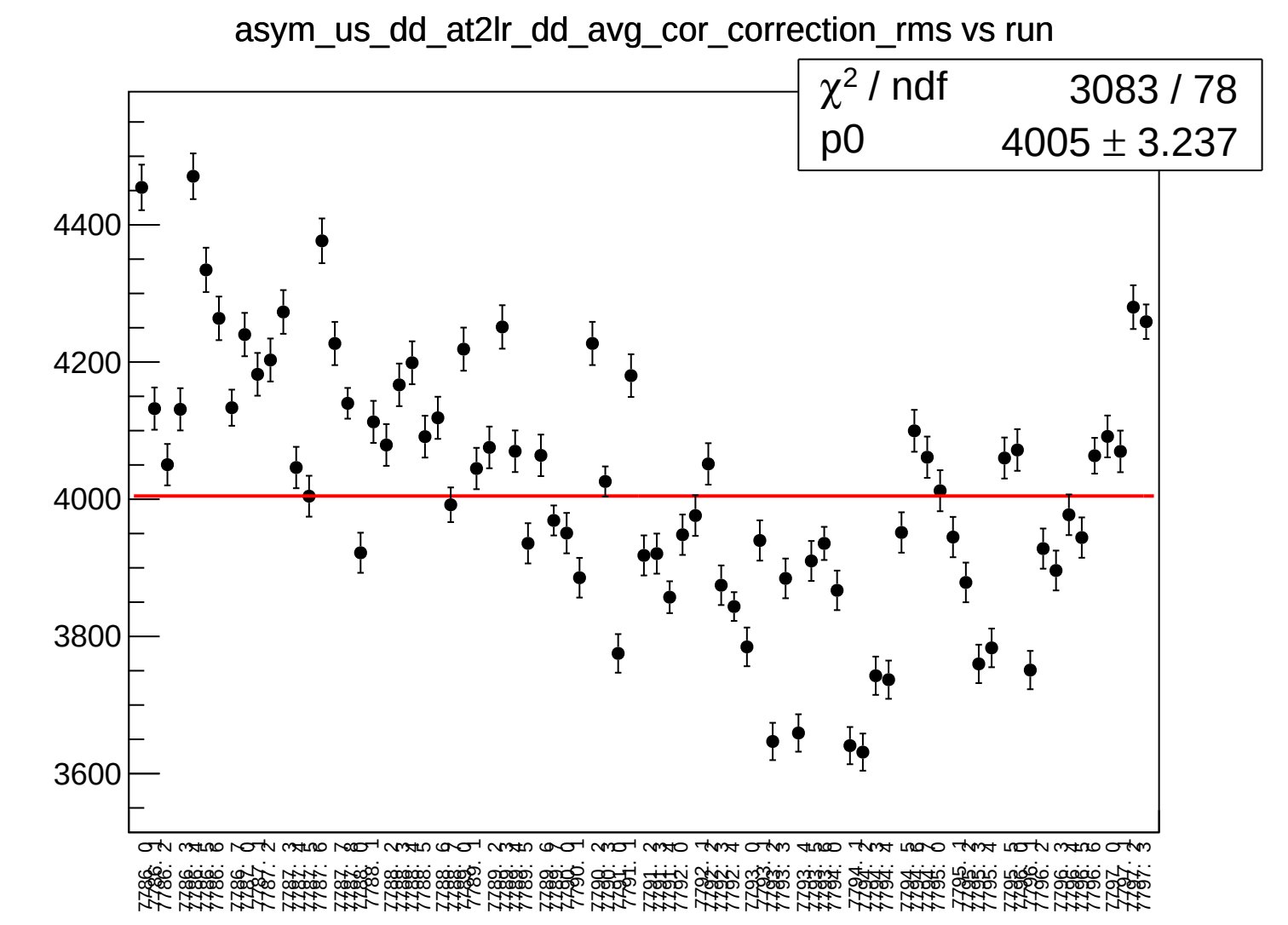

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 58.64 / 78
p0 2885 ± 2519
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −99.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

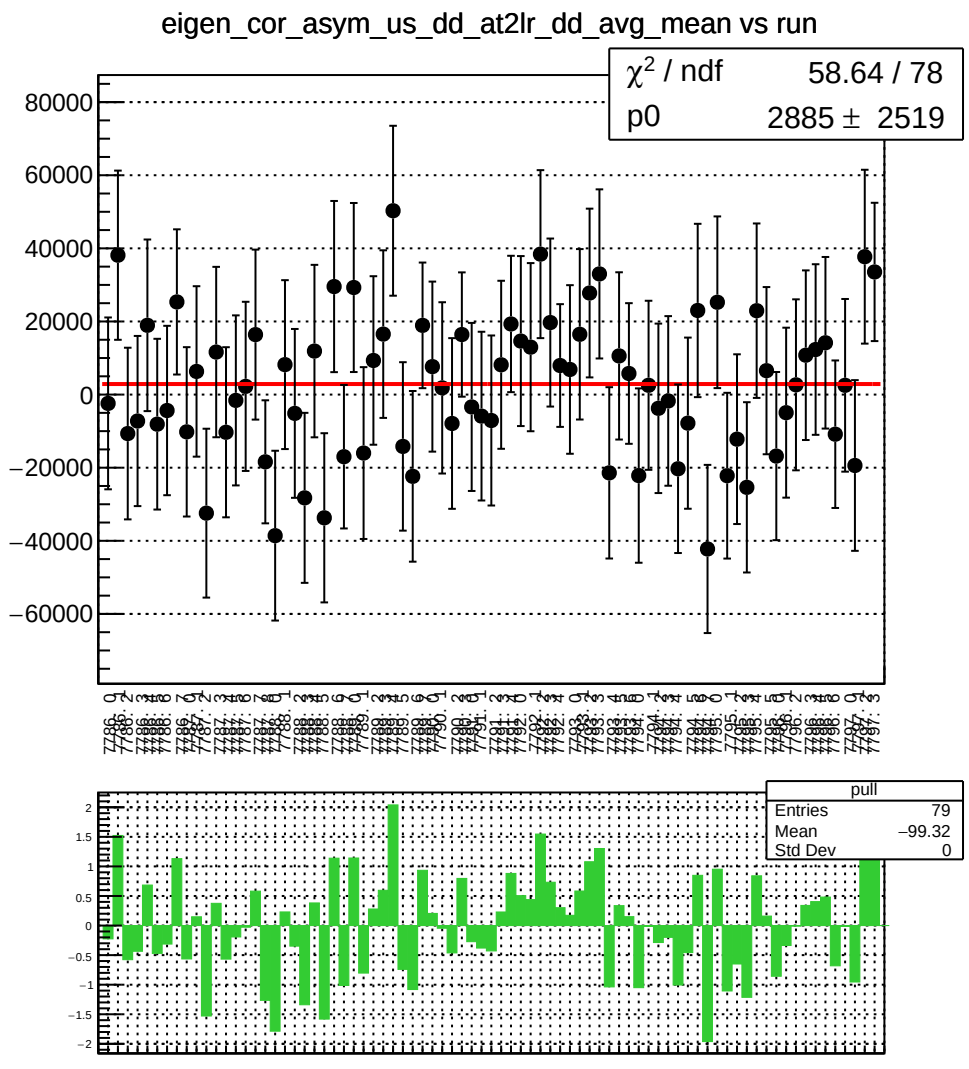

pull1D
Entries 79
Mean −0.009102
Std Dev 0.8615
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

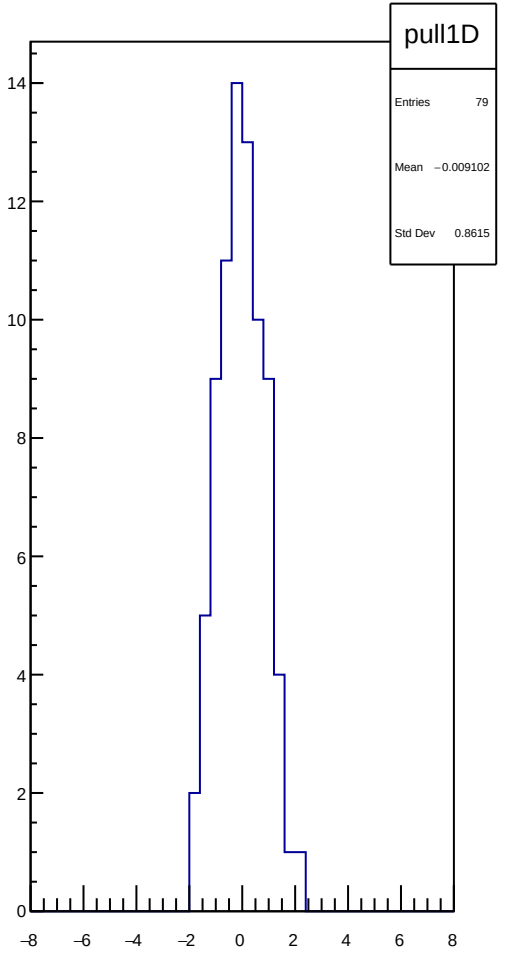

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 141.7 / 78
p0 2206 ± 1.781
2280
2260
2240
2220
2200
2180
2160
2140


asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 74.52 / 78
p0 −6426 ± 4577
150
100
50
0
−50
−100
pull
Entries 79
Mean −79.54
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 79
Mean 0.01457
Std Dev 0.9711
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 3083 / 78
p0 4005 ± 3.237
4400
4200
4000
3800
3600


eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 58.64 / 78
p0 2885 ± 2519
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −99.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 79
Mean −0.009102
Std Dev 0.8615
14
12
10
8
6
4
2
0
−8
−6
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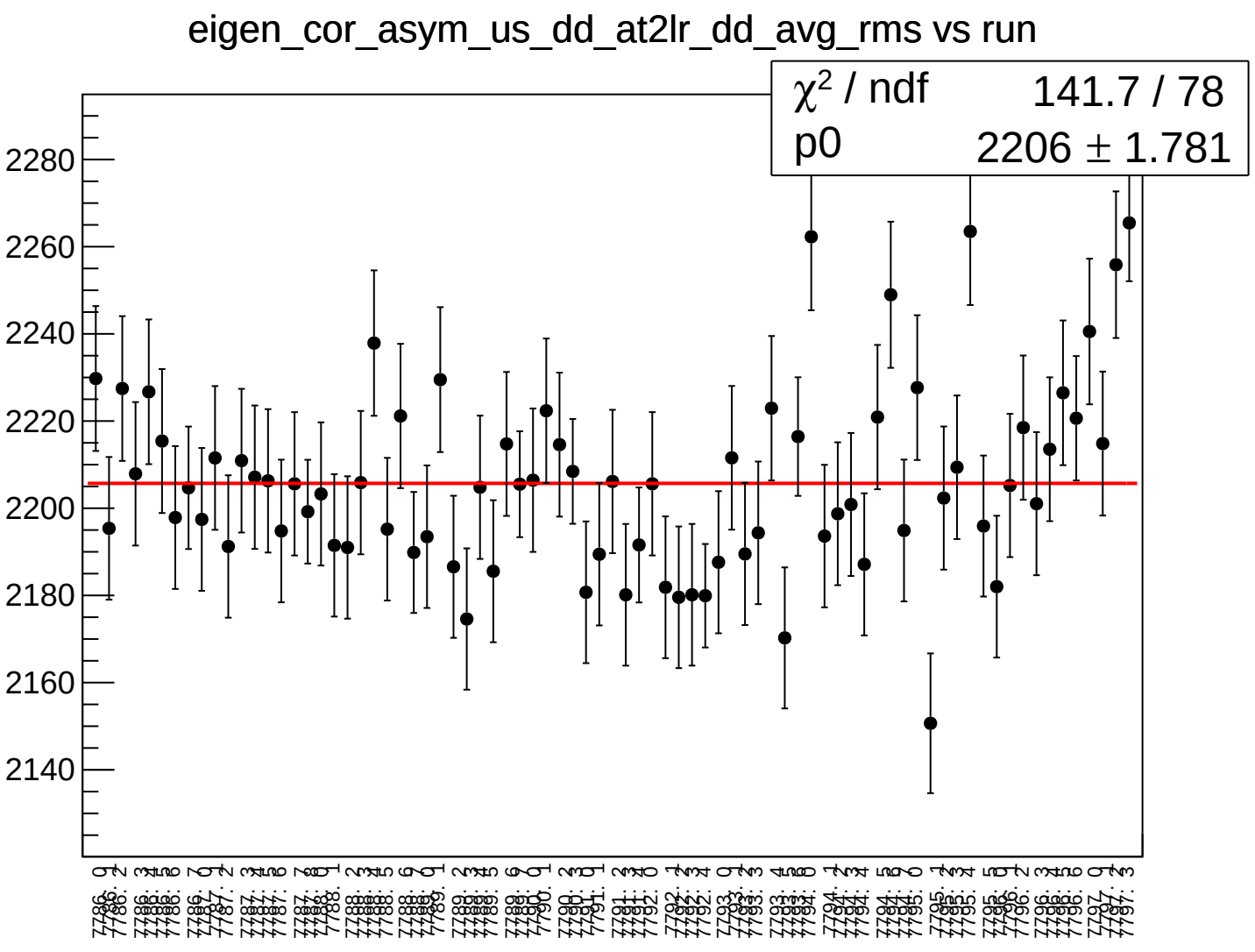
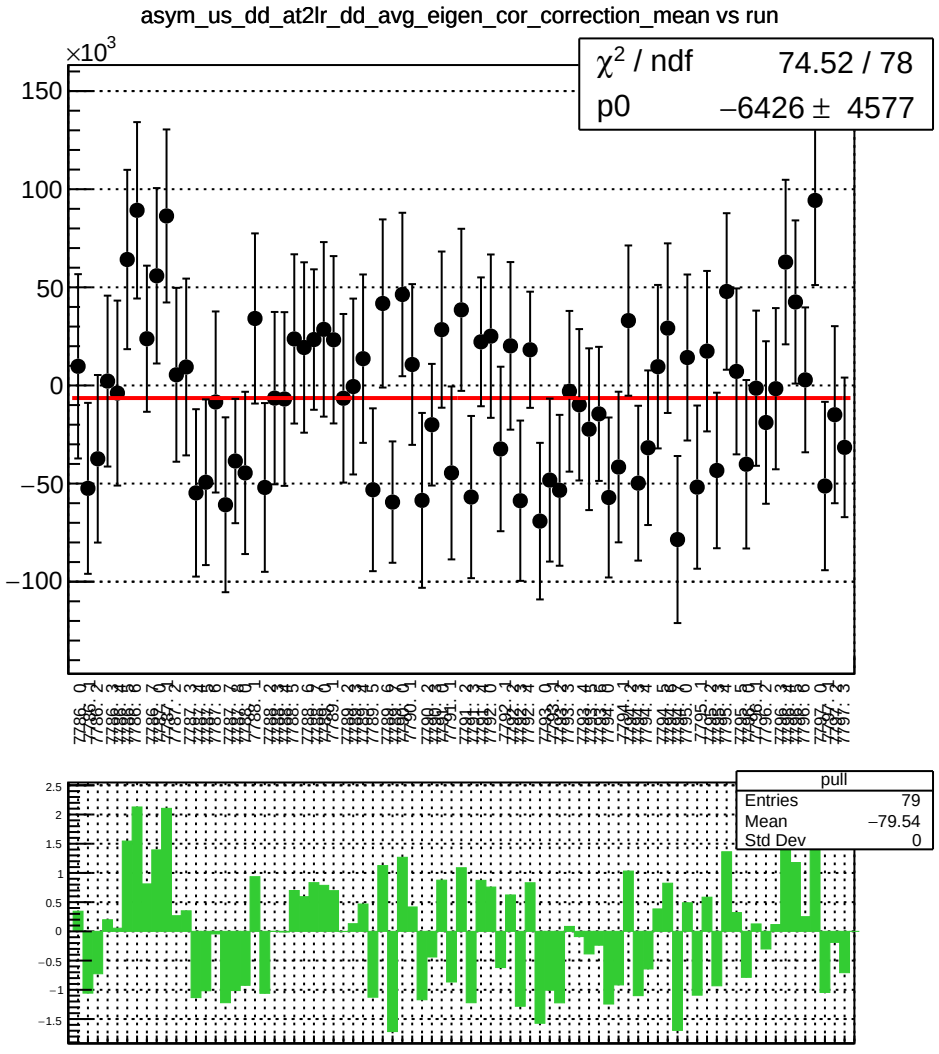
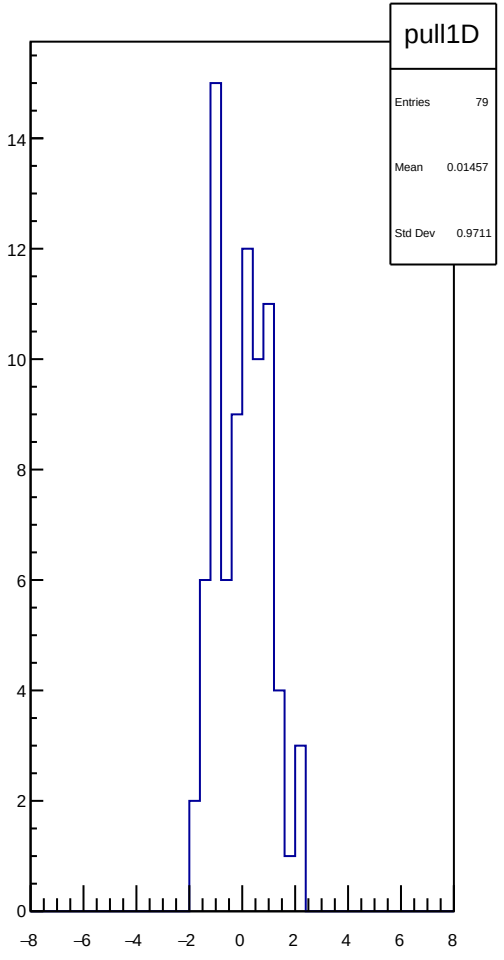
2
4
6
8


eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 141.7 / 78
p0 2206 ± 1.781
2280
2260
2240
2220
2200
2180
2160
2140


asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.52 / 78
p0 −6426 ± 4577
150
100
50
0
−50
−100
pull
Entries 79
Mean −79.54
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 79
Mean 0.01457
Std Dev 0.9711
14
12
10
8
6
4
2
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−8
−6
−4
−2
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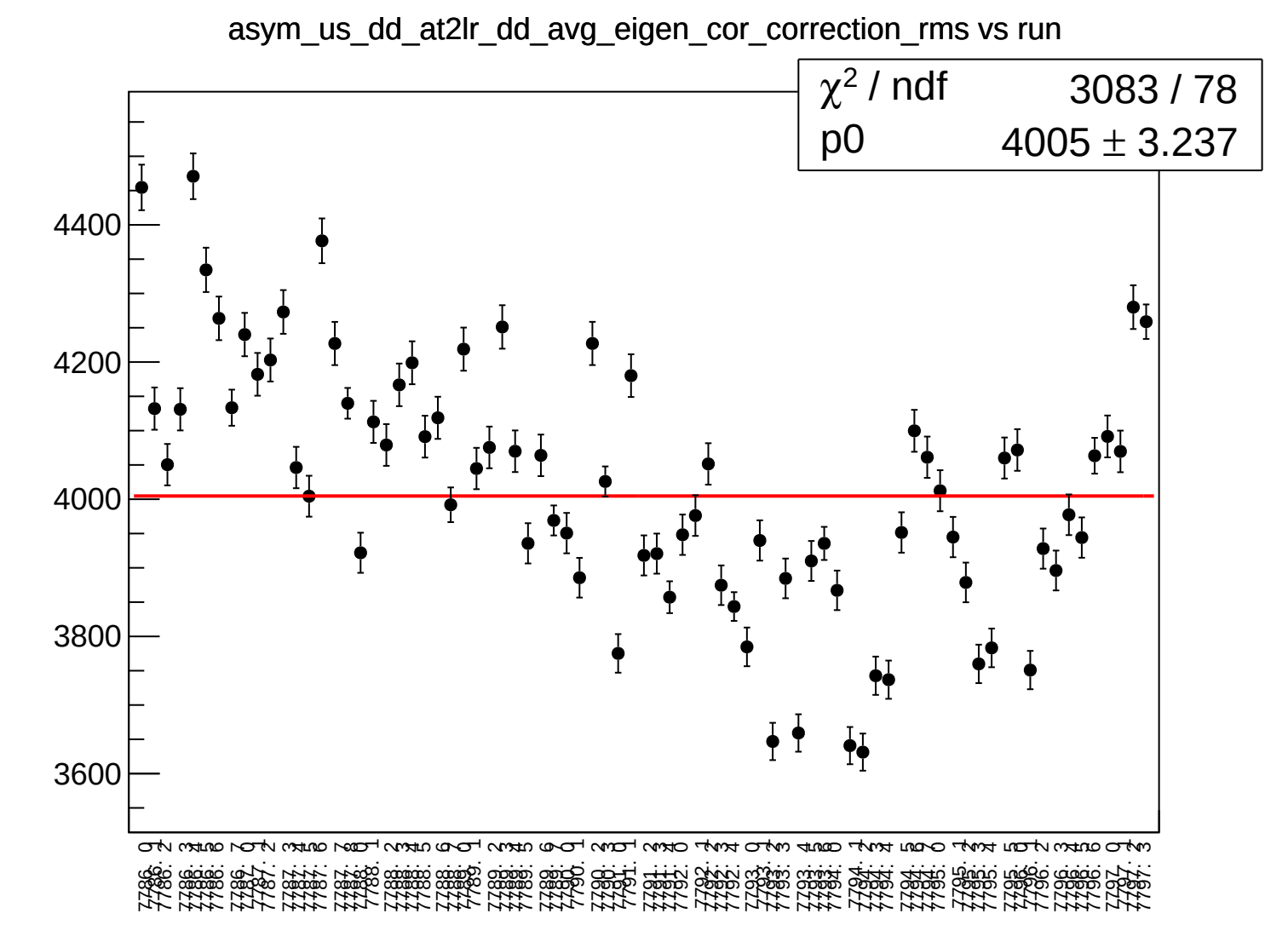
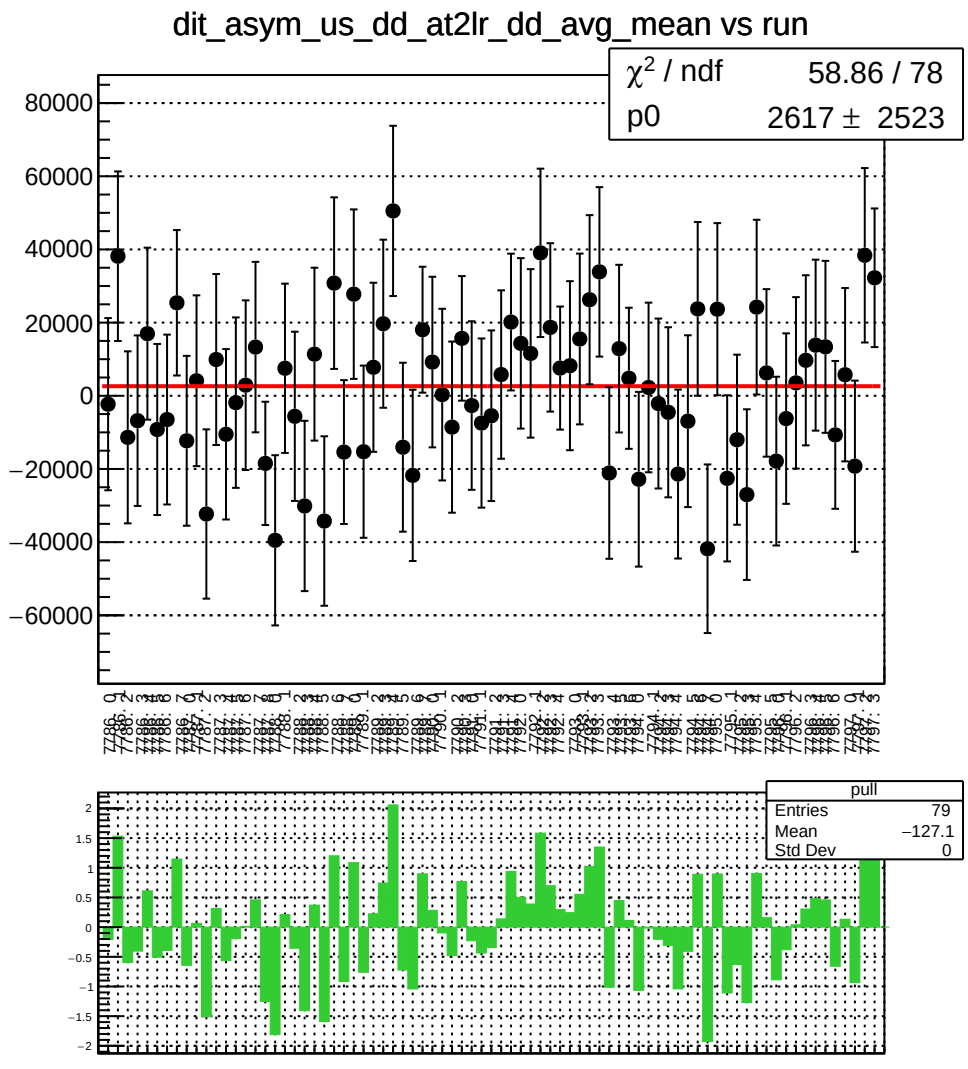
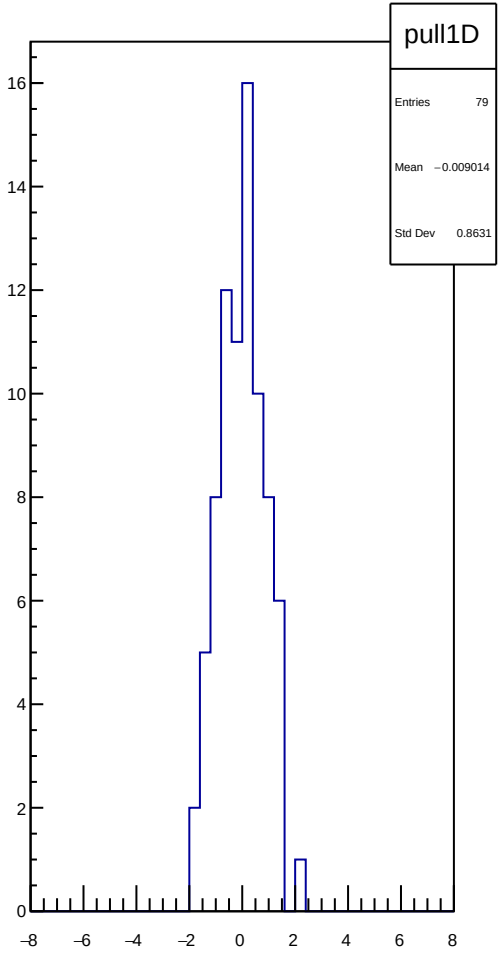
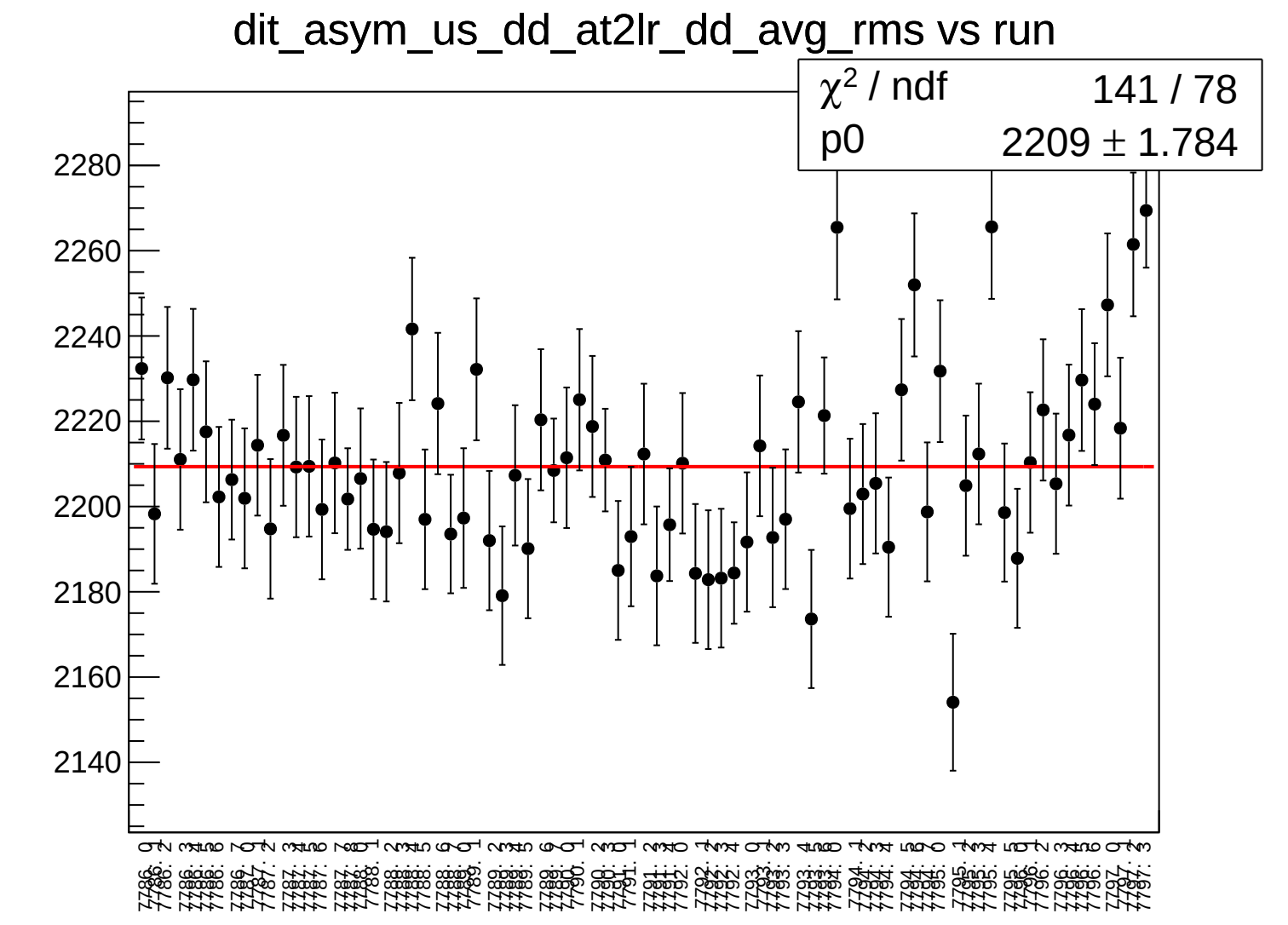
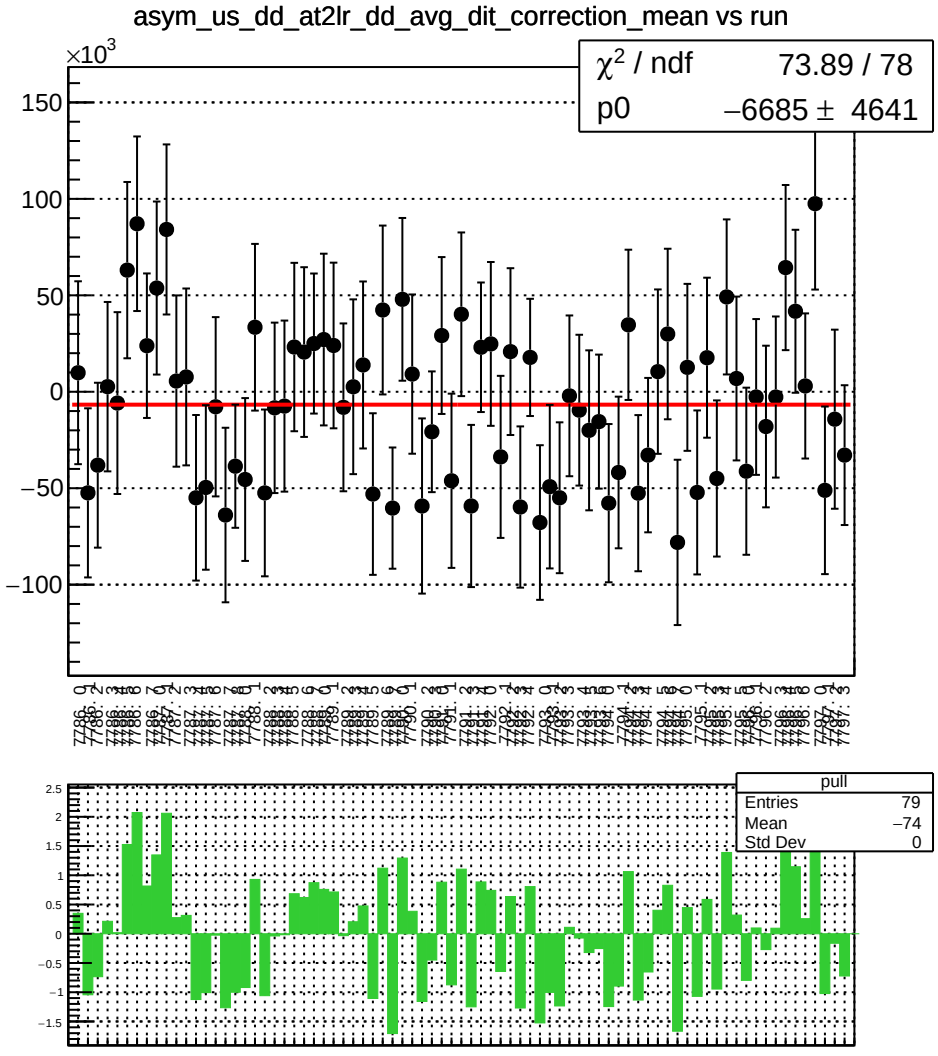
2
4
6
8

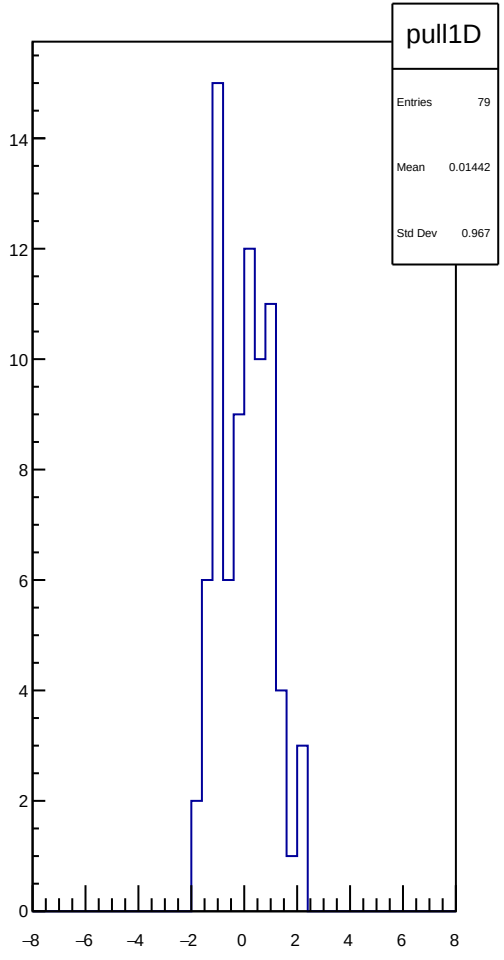

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3083 / 78
p0 4005 ± 3.237
4400
4200
4000
3800
3600

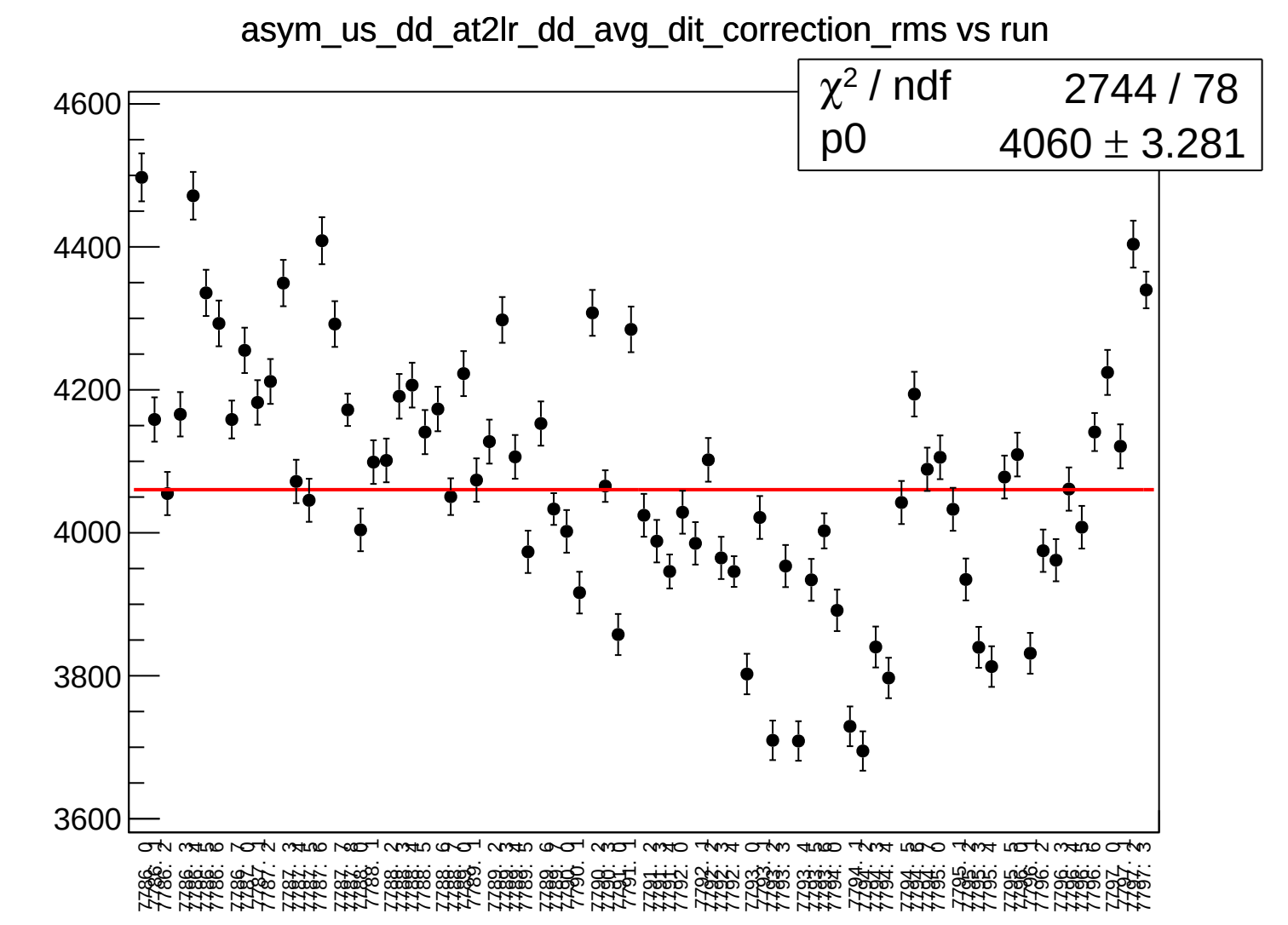

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 58.86 / 78
p0 2617 ± 2523
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −127.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

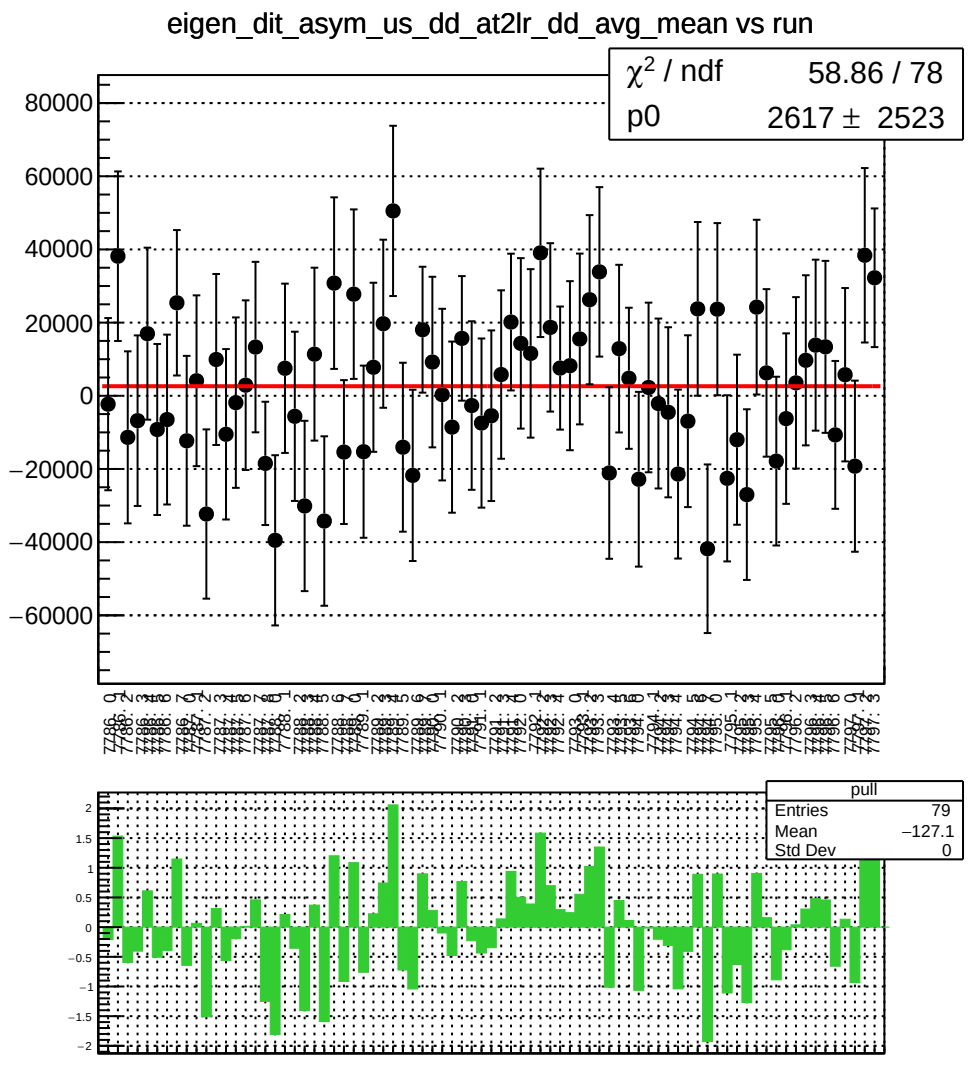

pull1D
Entries 79
Mean −0.009014
Std Dev 0.8631
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

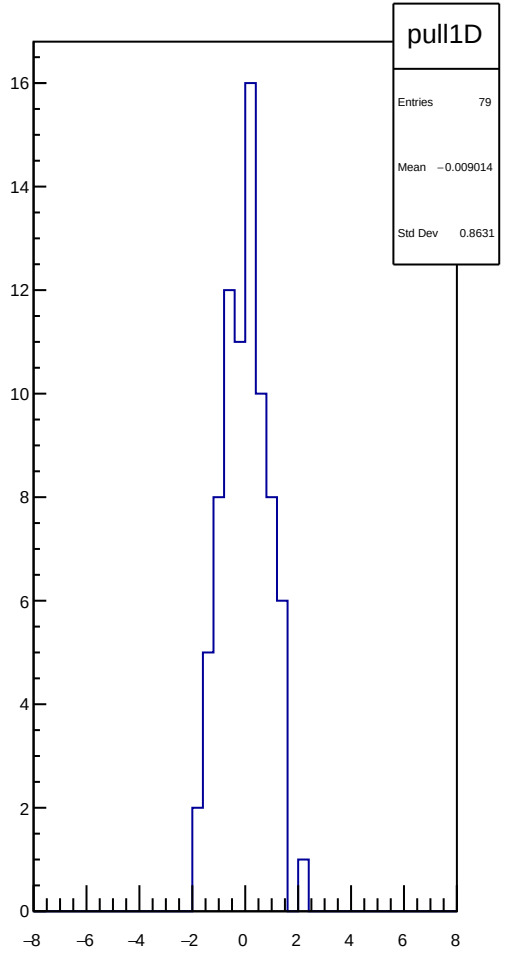

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 141 / 78
p0 2209 ± 1.784
2280
2260
2240
2220
2200
2180
2160
2140

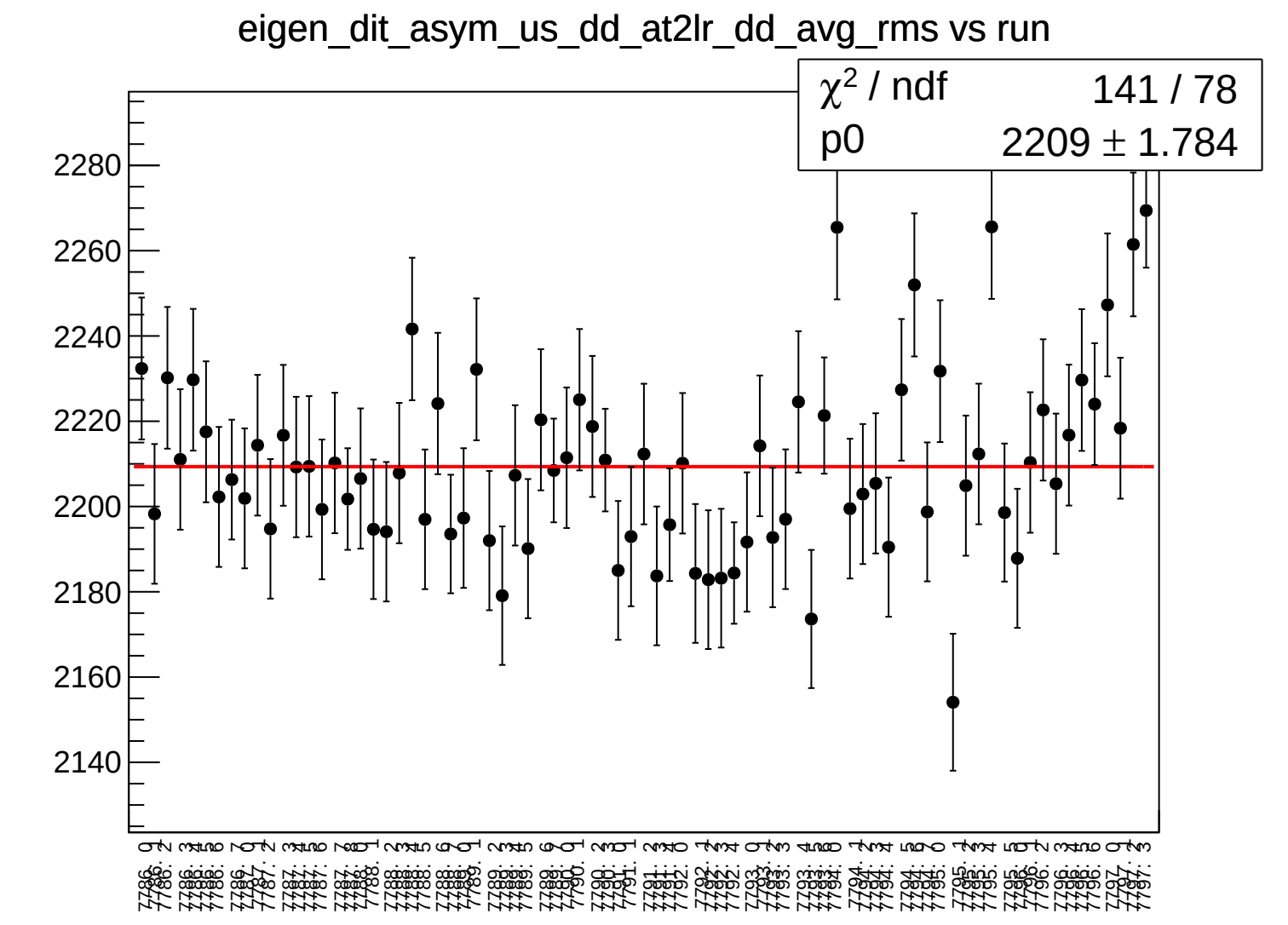

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.89 / 78
p0 −6685 ± 4641
150
100
50
0
−50
−100
pull
Entries 79
Mean −74
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

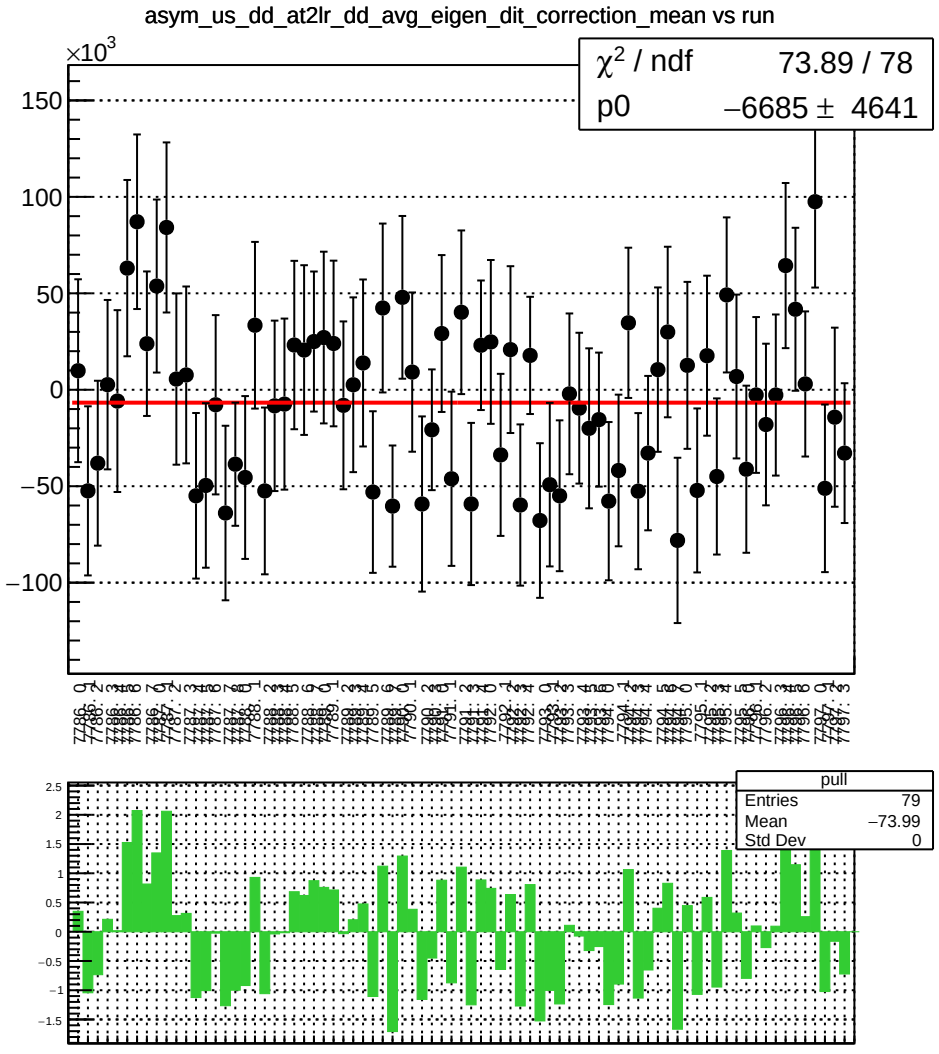

pull1D
Entries 79
Mean 0.01442
Std Dev 0.967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

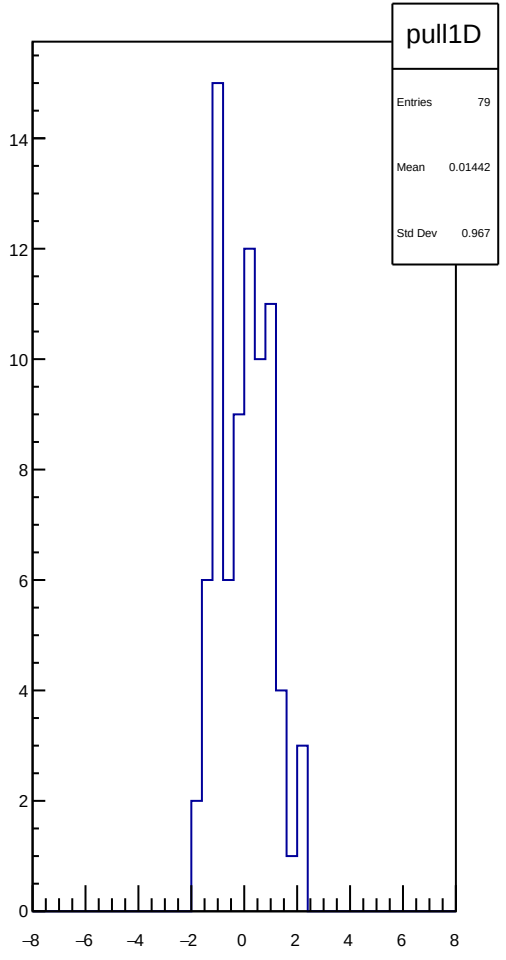

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2744 / 78
p0 4060 ± 3.281
4600
4400
4200
4000
3800
3600

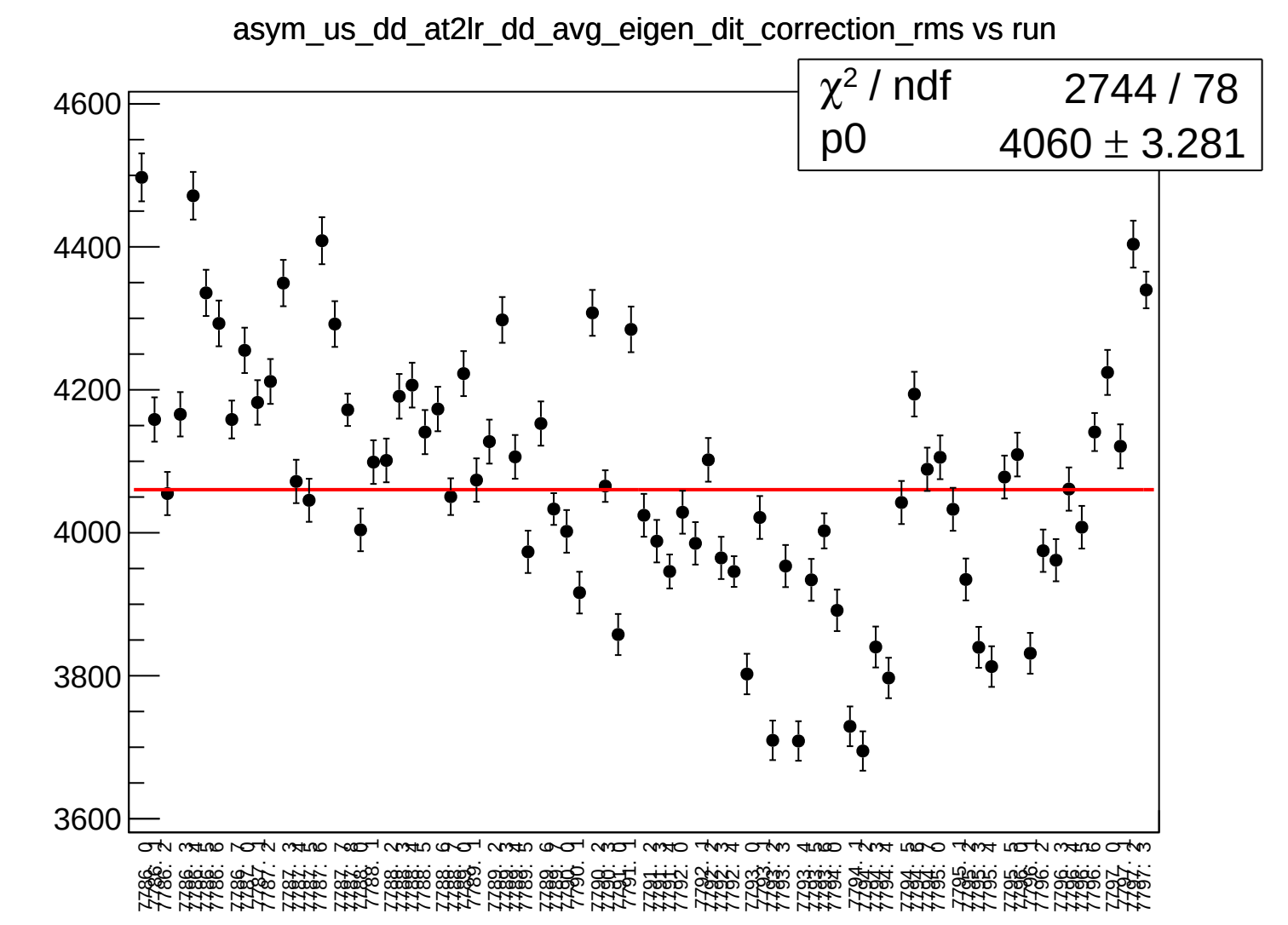

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 58.86 / 78
p0 2617 ± 2523
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −127.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

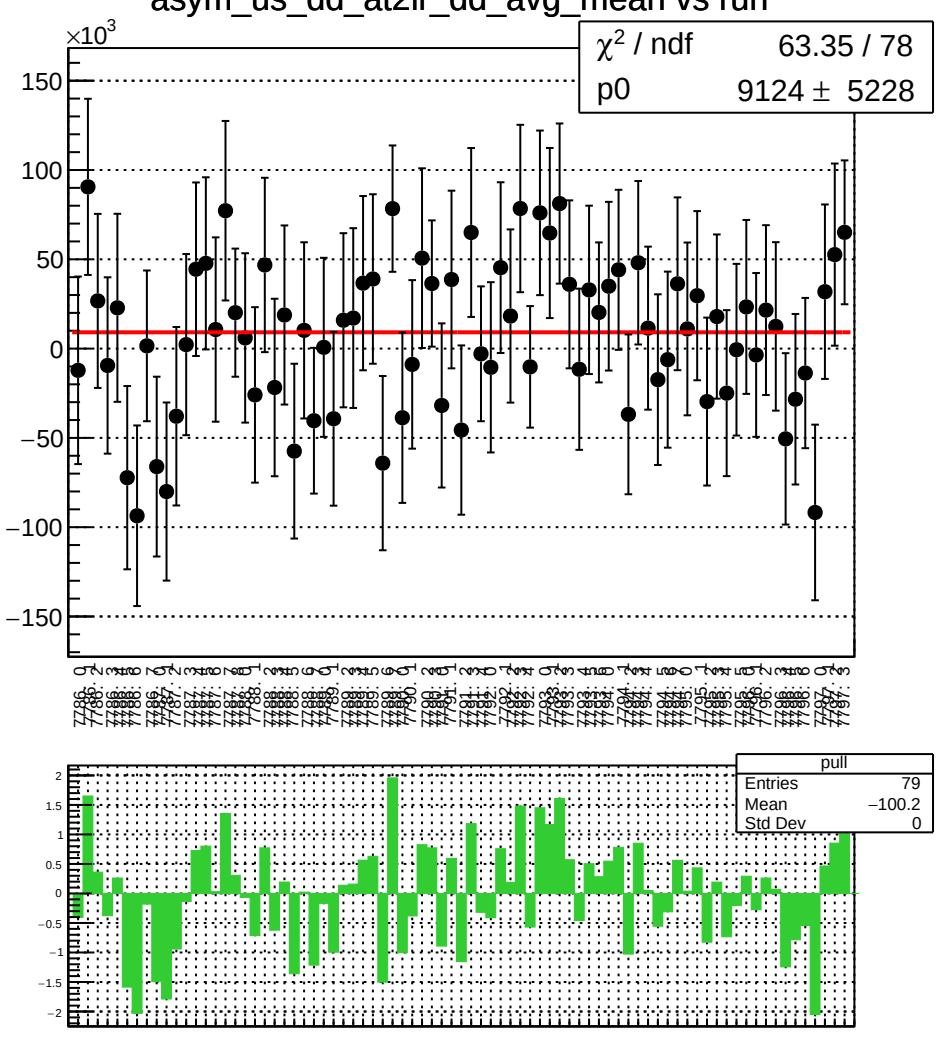

pull1D
Entries 79
Mean −0.009014
Std Dev 0.8631
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

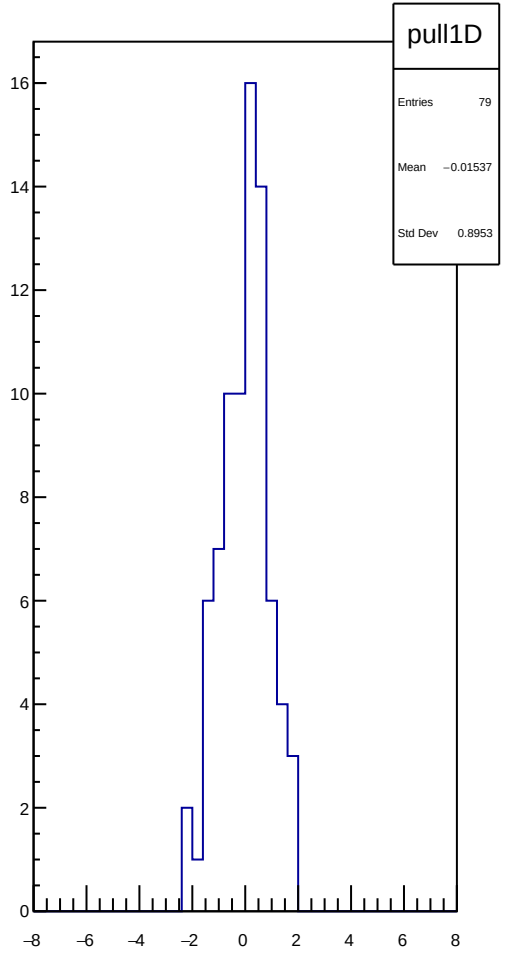

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 141 / 78
p0 2209 ± 1.784
2280
2260
2240
2220
2200
2180
2160
2140

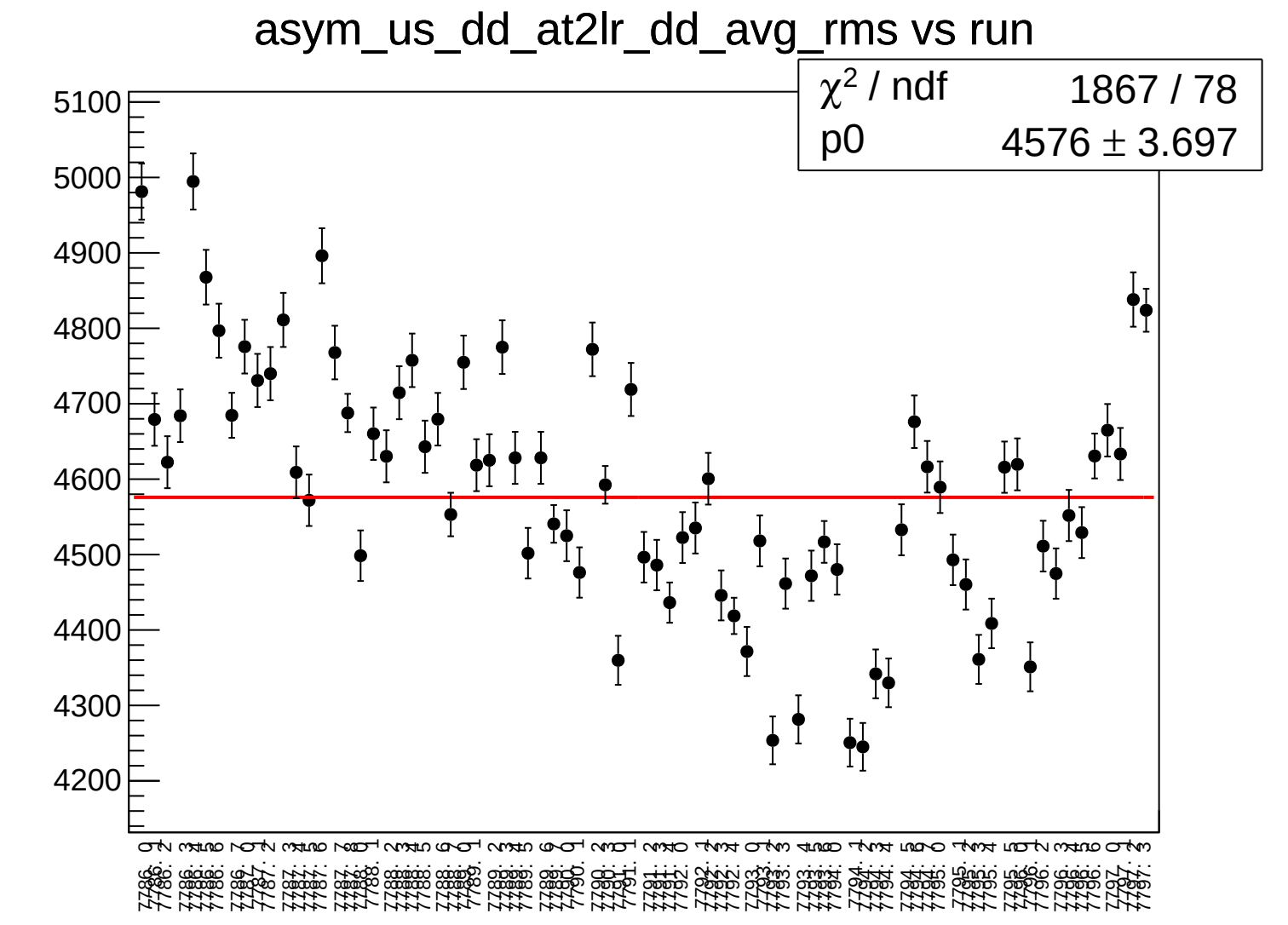

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.89 / 78
p0 −6685 ± 4641
150
100
50
0
−50
−100
pull
Entries 79
Mean −73.99
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

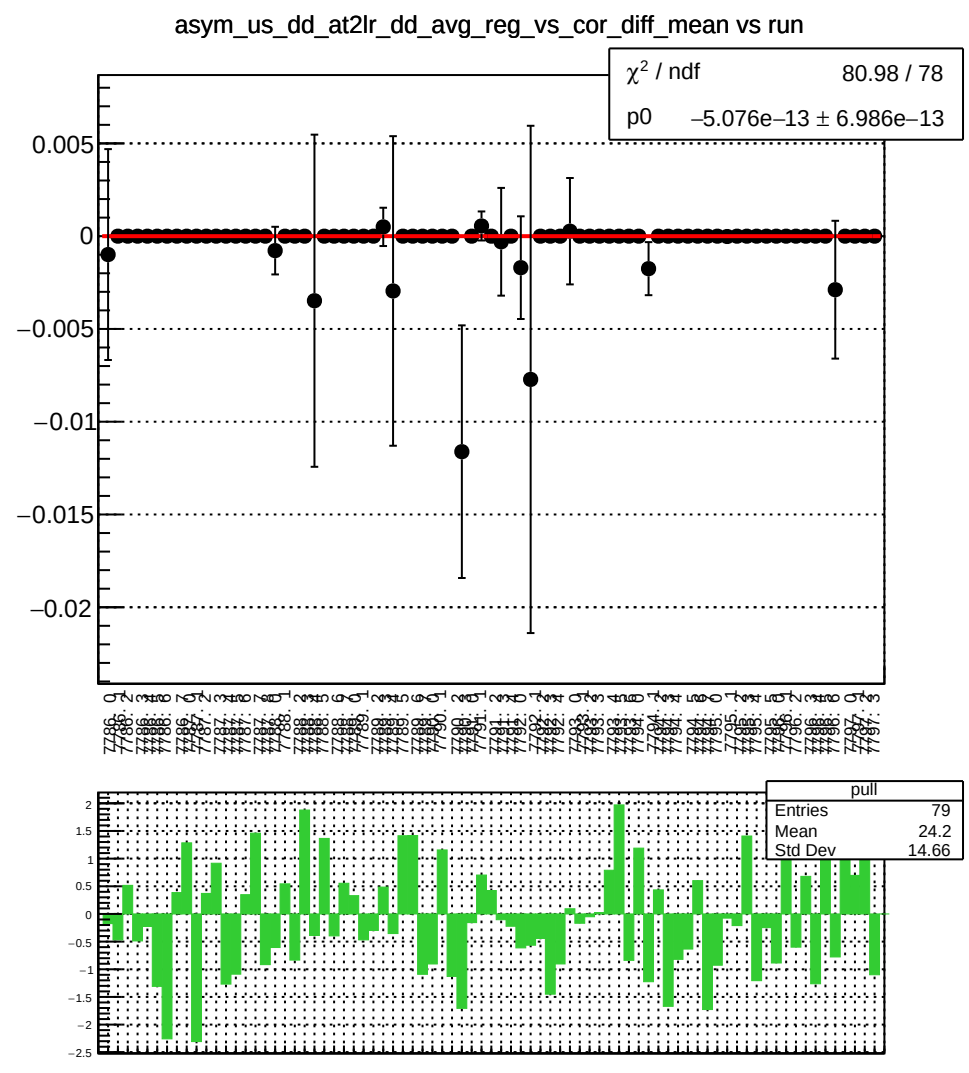

pull1D
Entries 79
Mean 0.01442
Std Dev 0.967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

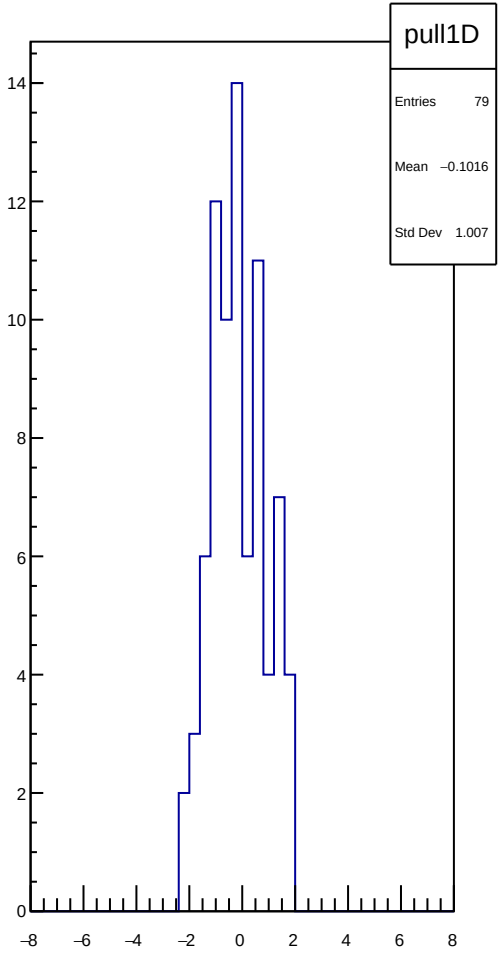

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2744 / 78
p0 4060 ± 3.281
4600
4400
4200
4000
3800
3600

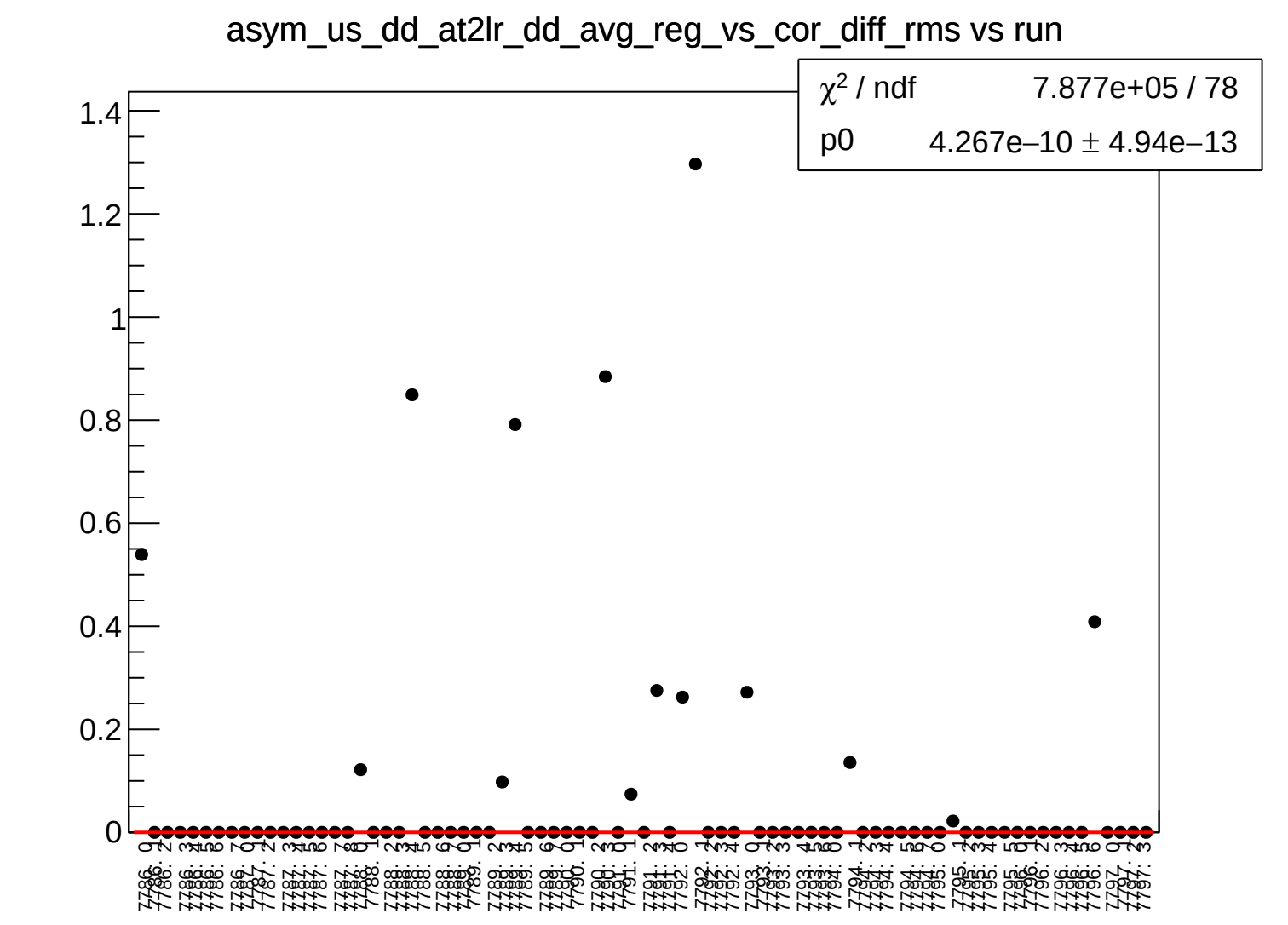

asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 63.35 / 78
p0 9124 ± 5228
×10³
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −100.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

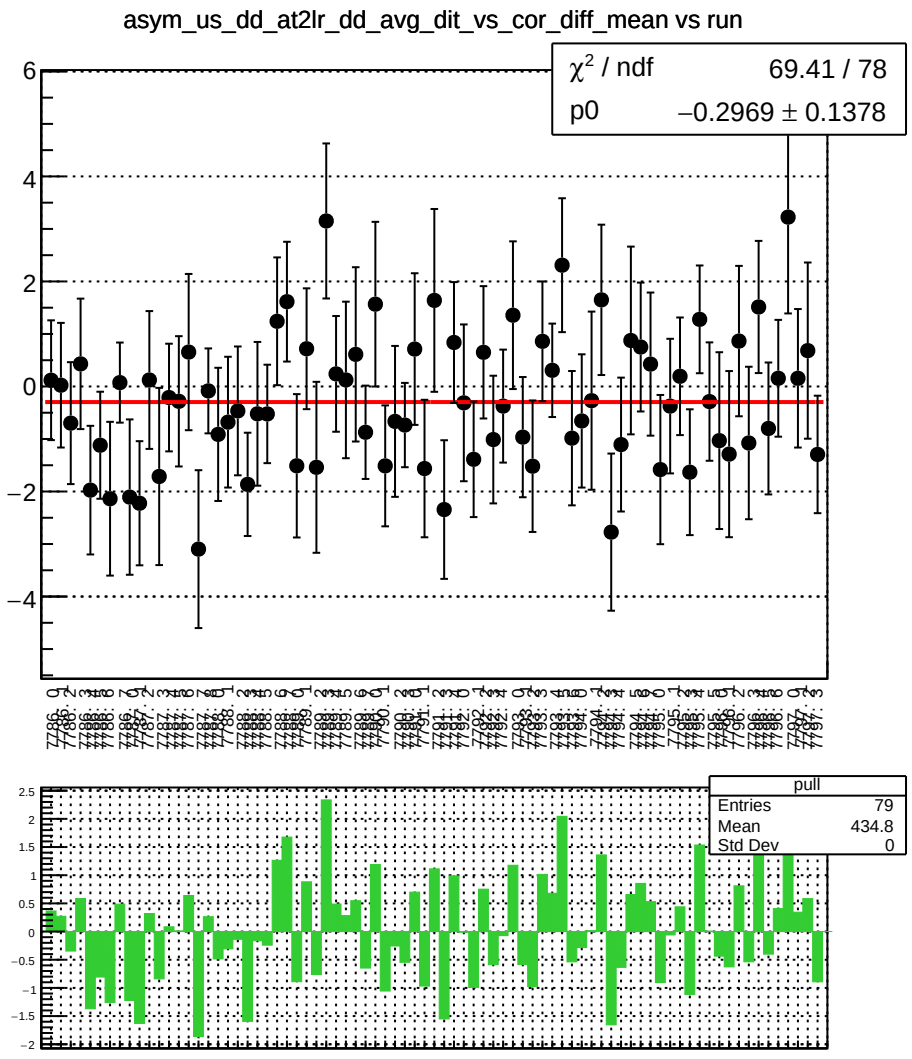

pull1D
Entries 79
Mean −0.01537
Std Dev 0.8953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

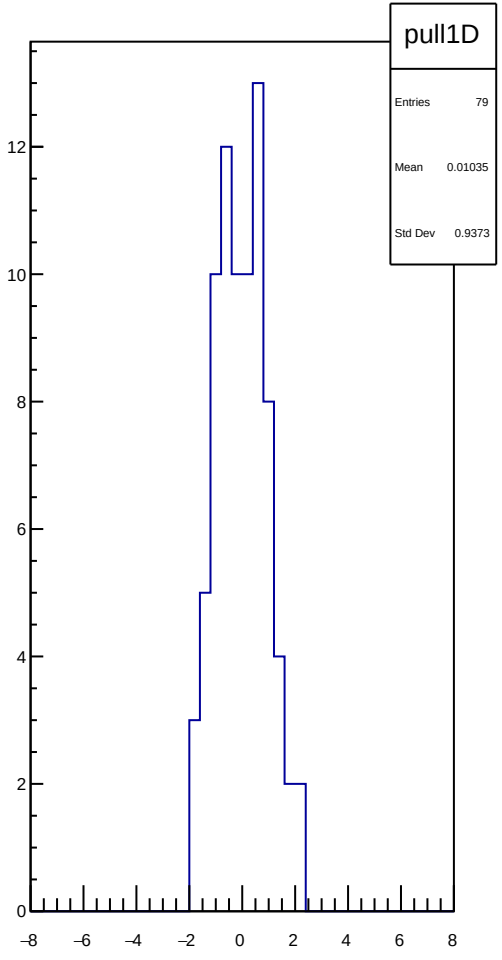

asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 1867 / 78
p0 4576 ± 3.697
5100
5000
4900
4800
4700
4600
4500
4400
4300
4200

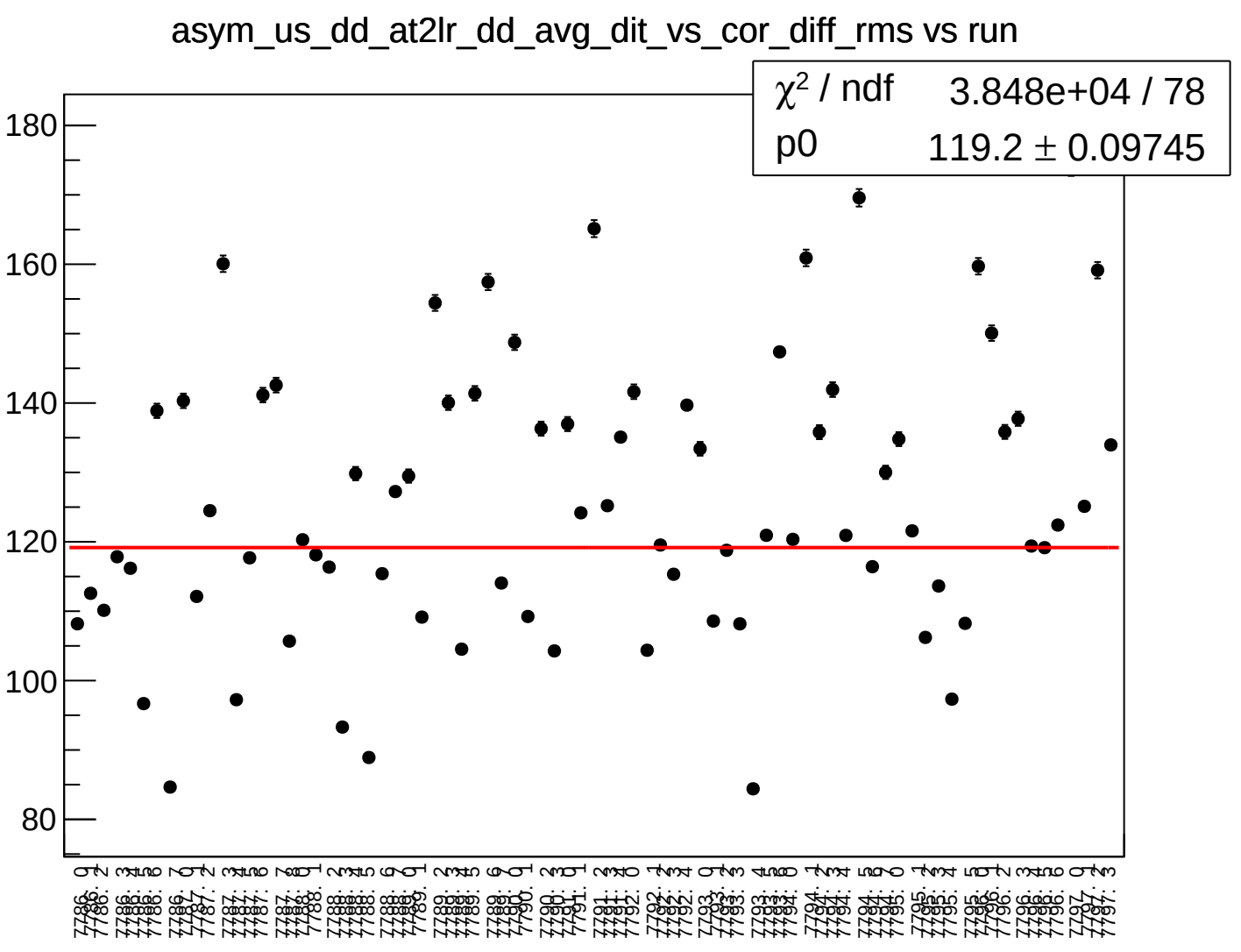

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.98 / 78
p0 −5.076e−13 ± 6.986e−13
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 79
Mean 24.2
Std Dev 14.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

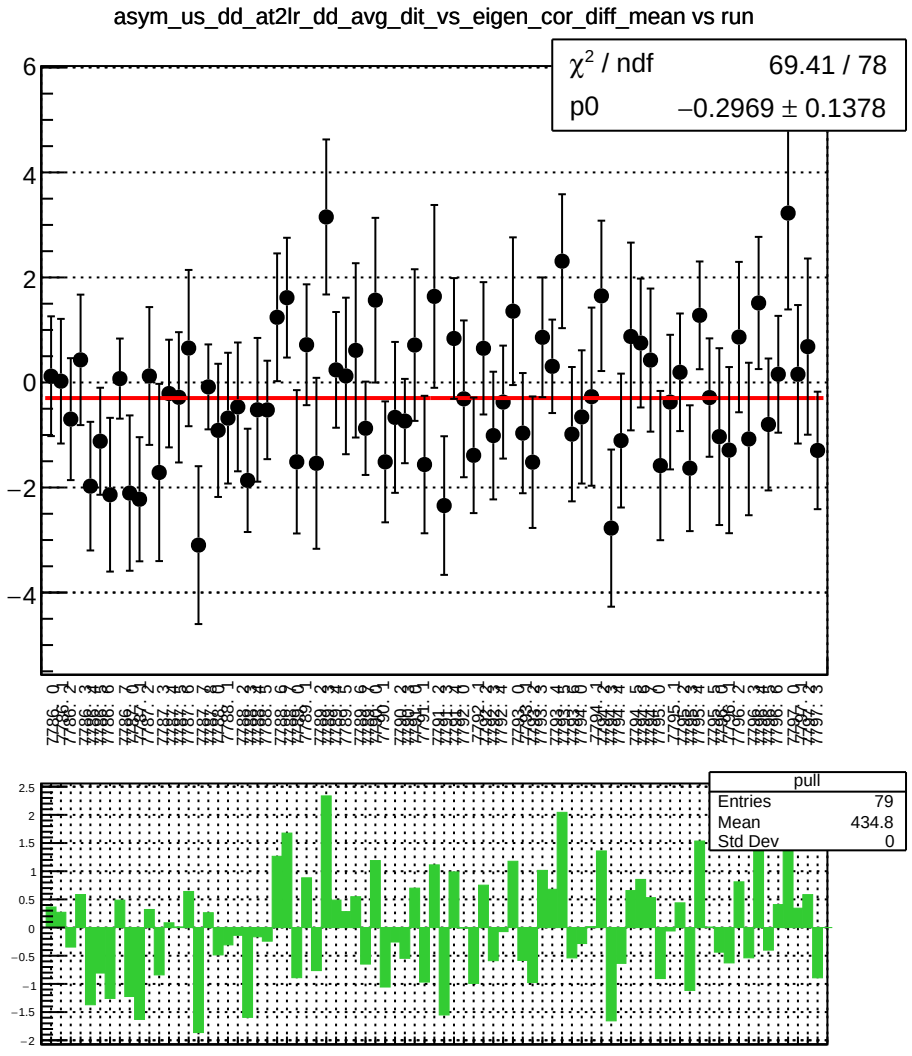

pull1D
Entries 79
Mean −0.1016
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

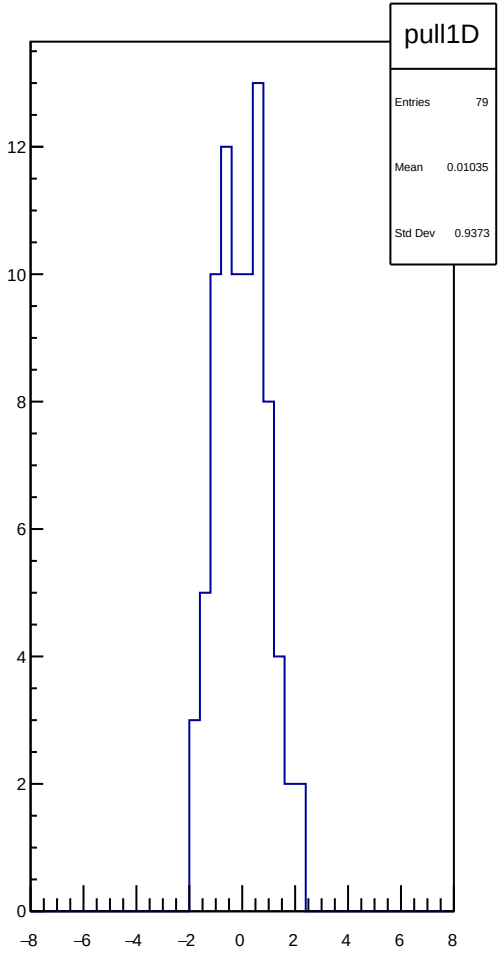

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.877e+05 / 78
p0 4.267e−10 ± 4.94e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

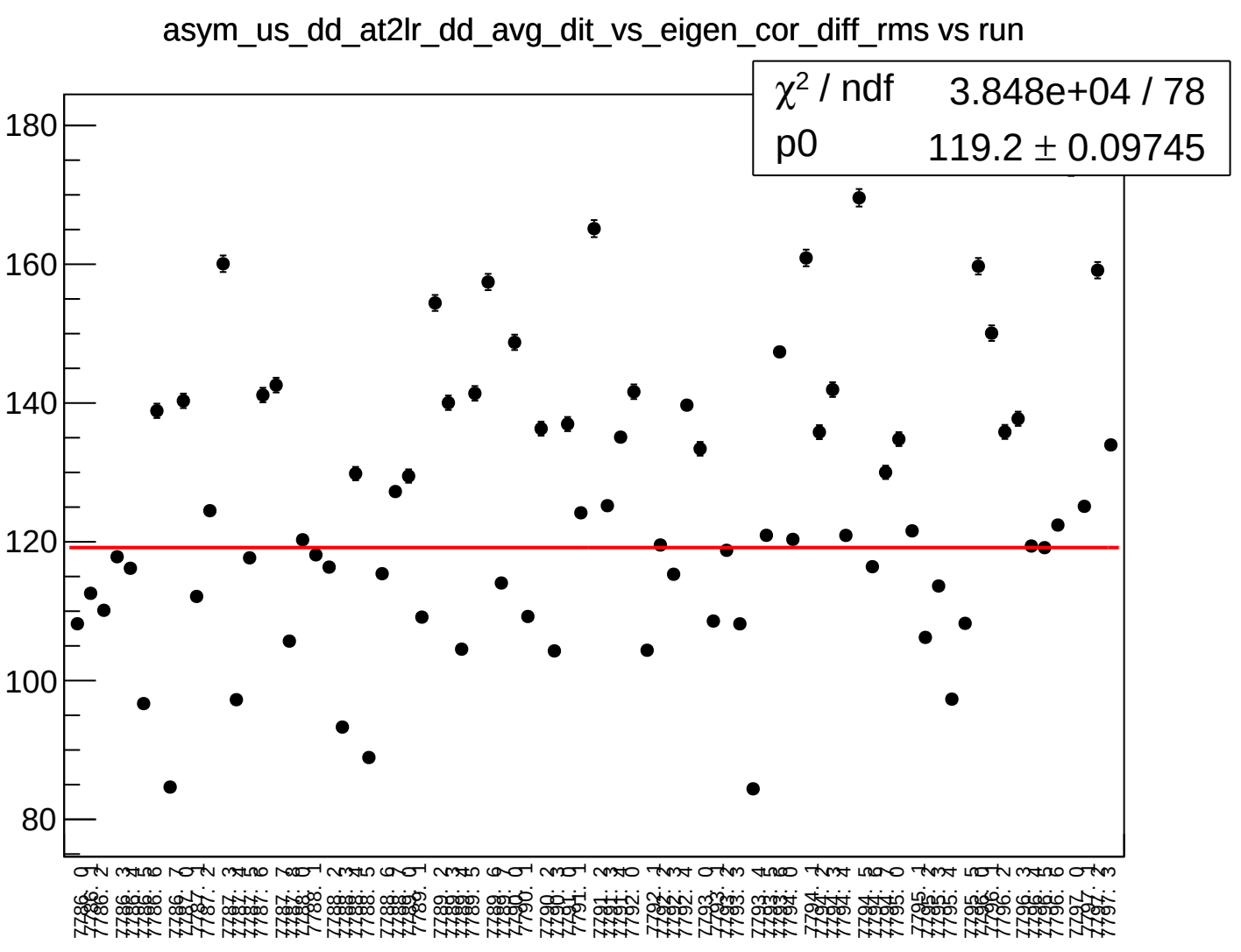

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.41 / 78
p0 −0.2969 ± 0.1378
pull
Entries 79
Mean 434.8
Std Dev 0

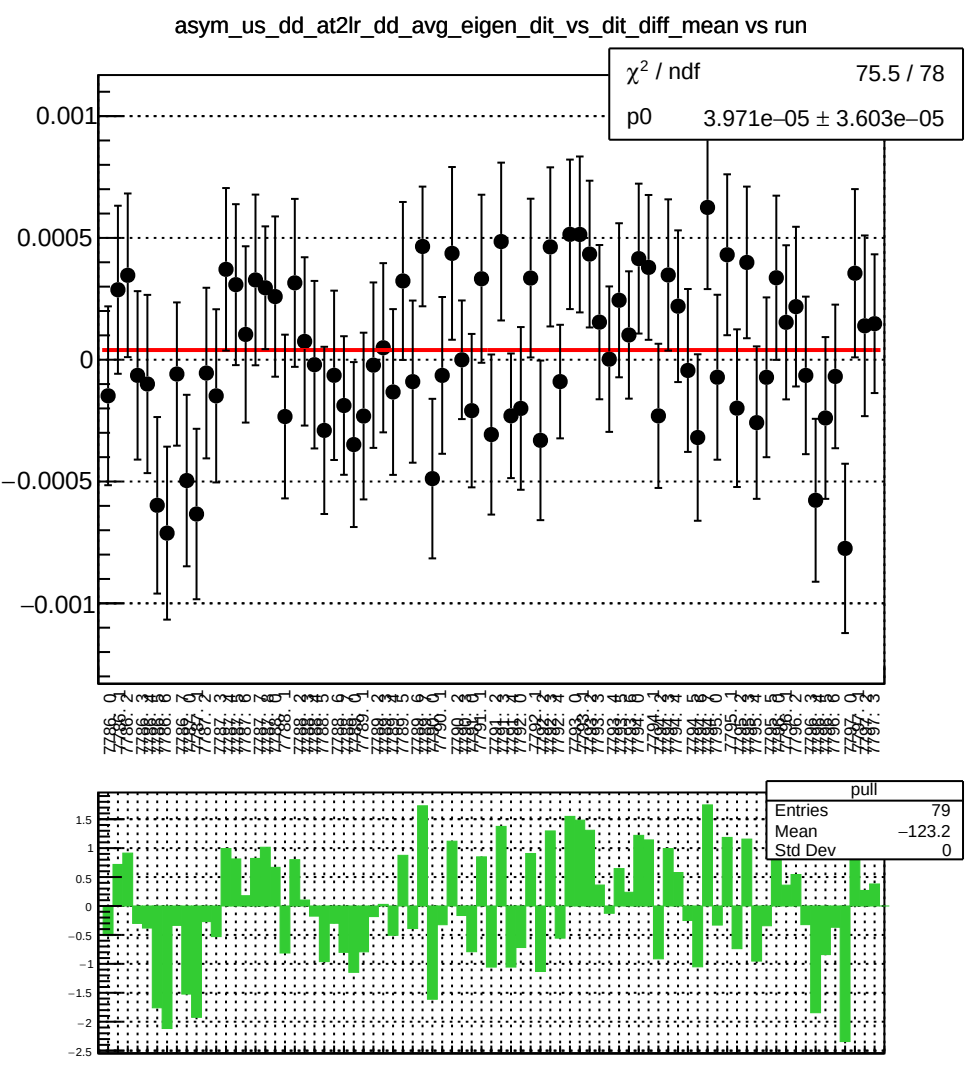

pull1D
Entries 79
Mean 0.01035
Std Dev 0.9373

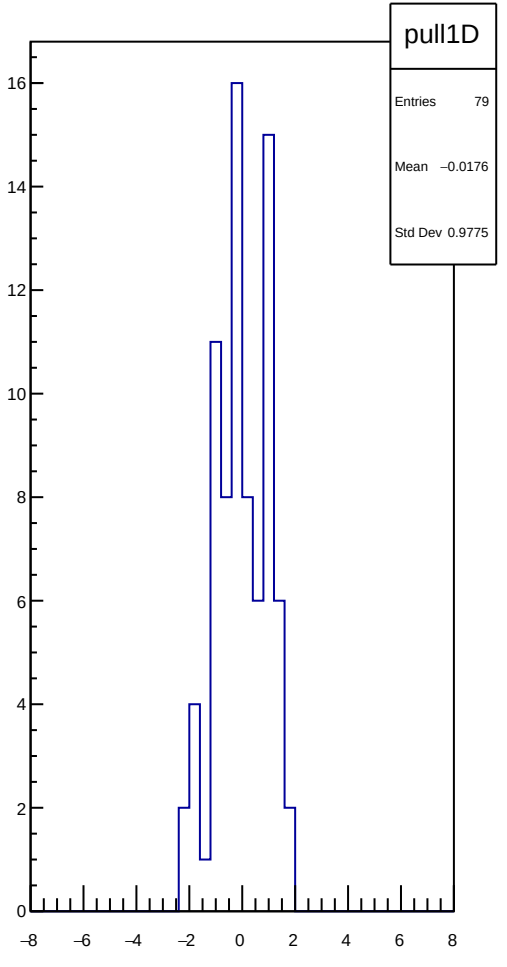

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.848e+04 / 78
p0 119.2 ± 0.09745
180
160
140
120
100
80

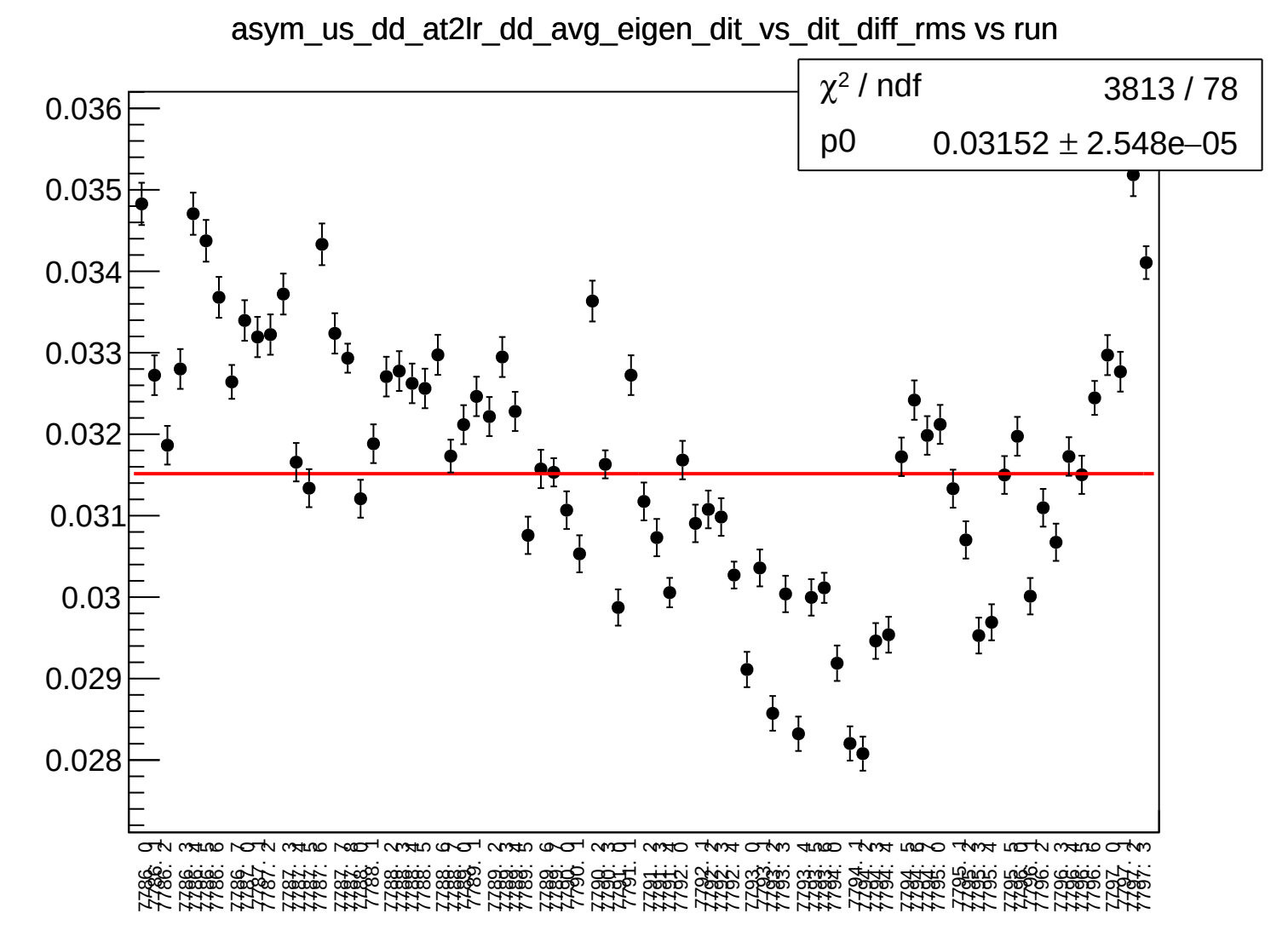

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.41 / 78
p0 −0.2969 ± 0.1378
pull
Entries 79
Mean 434.8
Std Dev 0


pull1D
Entries 79
Mean 0.01035
Std Dev 0.9373

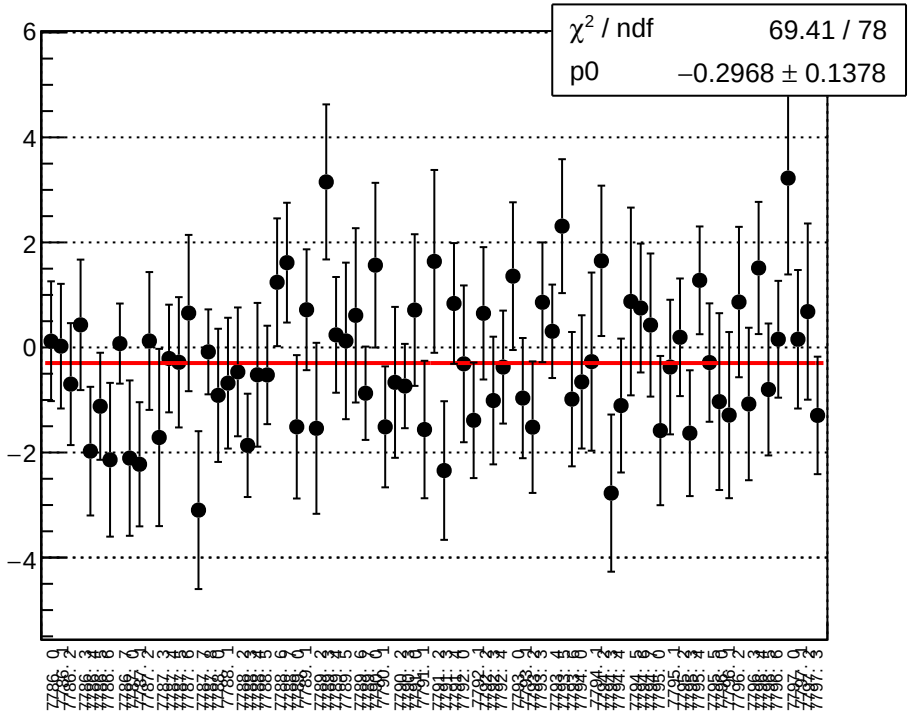

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.848e+04 / 78
p0 119.2 ± 0.09745
180
160
140
120
100
80

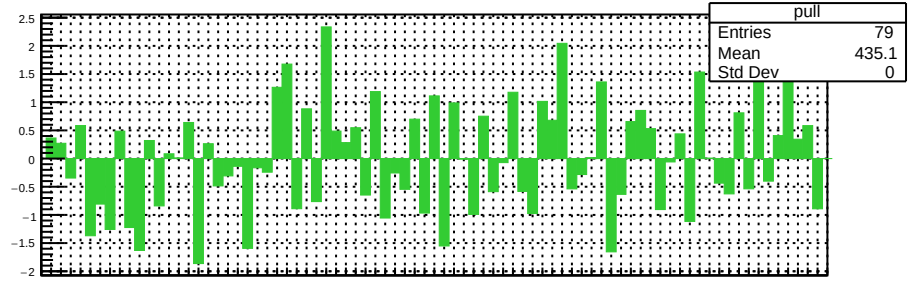

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.5 / 78
p0 3.971e−05 ± 3.603e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 79
Mean −123.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

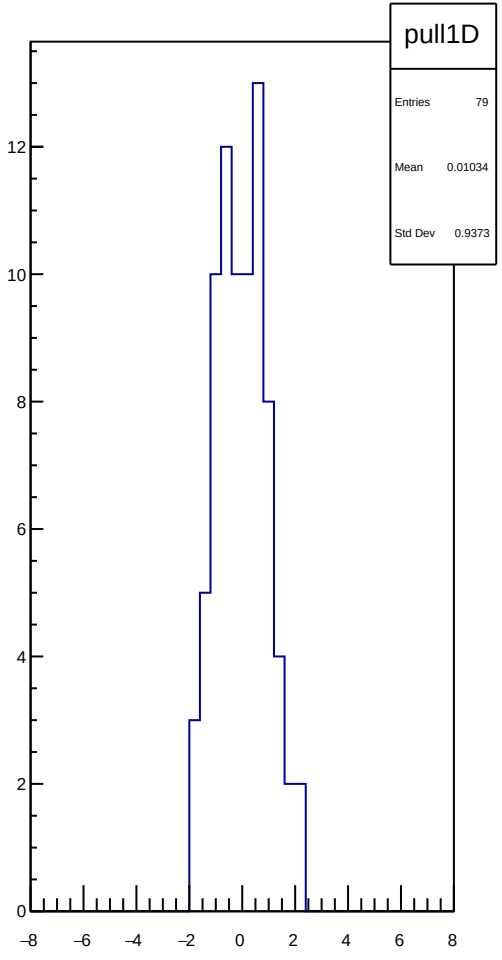

pull1D
Entries 79
Mean −0.0176
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

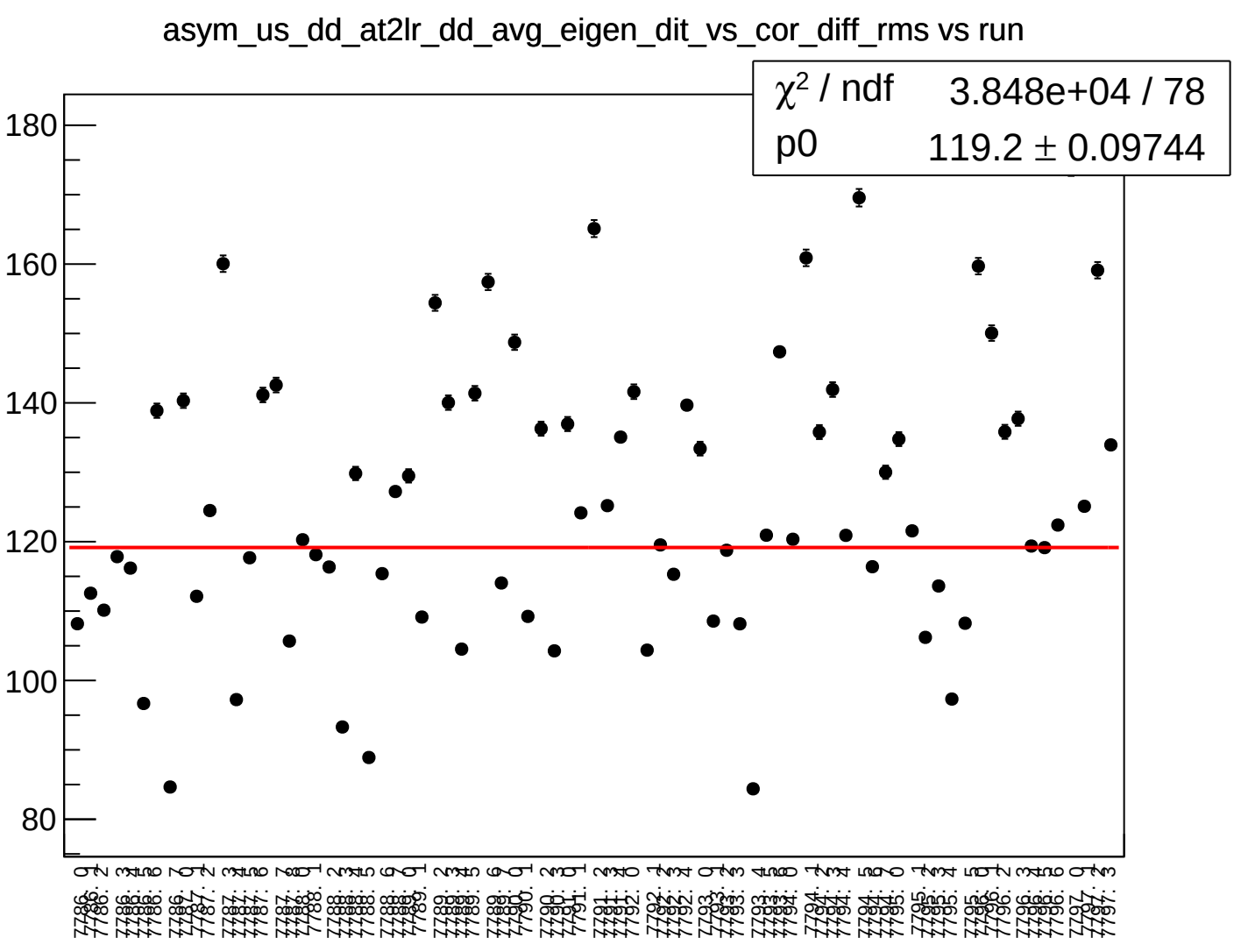

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3813 / 78
p0 0.03152 ± 2.548e−05
0.036
0.035
0.034
0.033
0.032
0.031
0.03
0.029
0.028

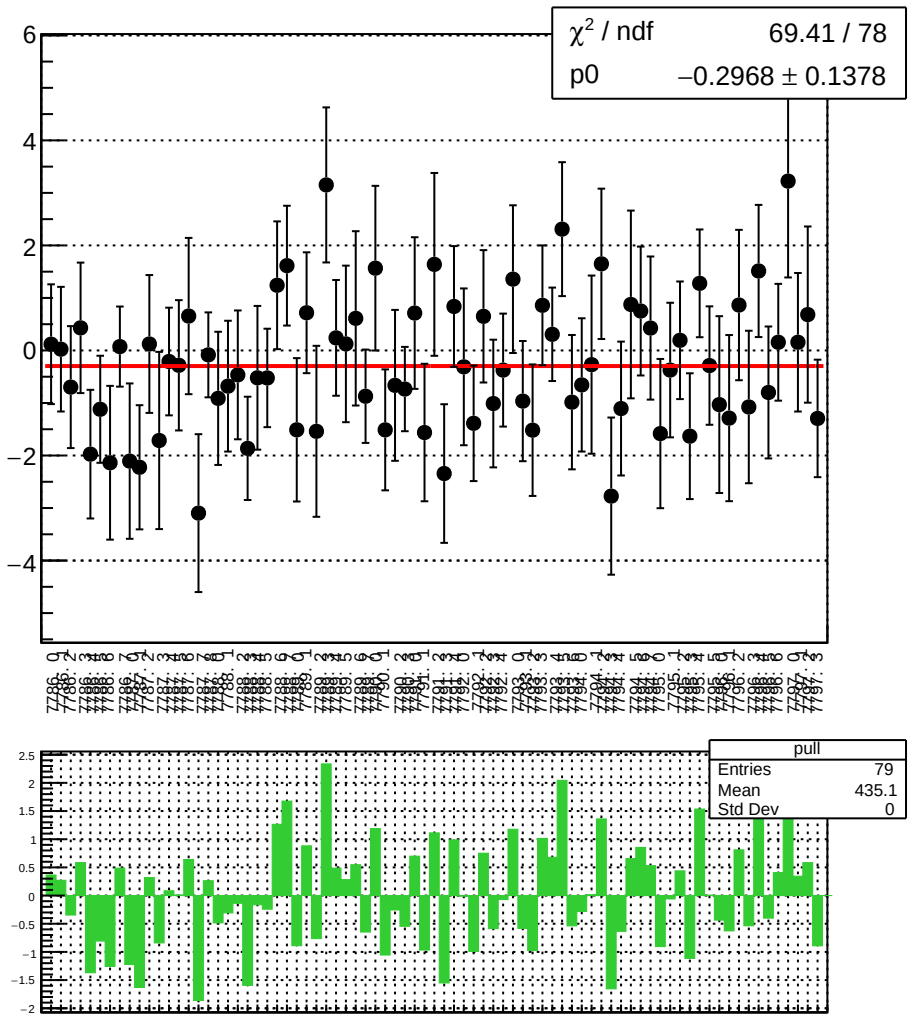
asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

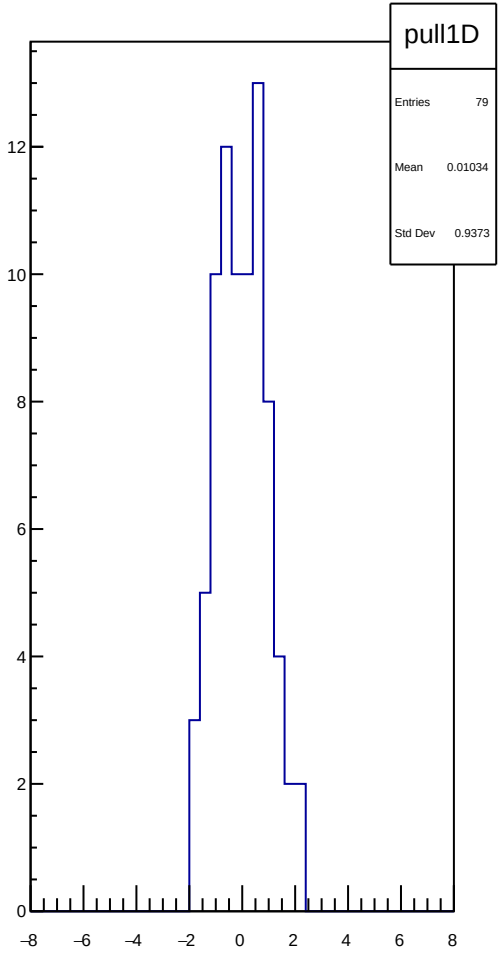


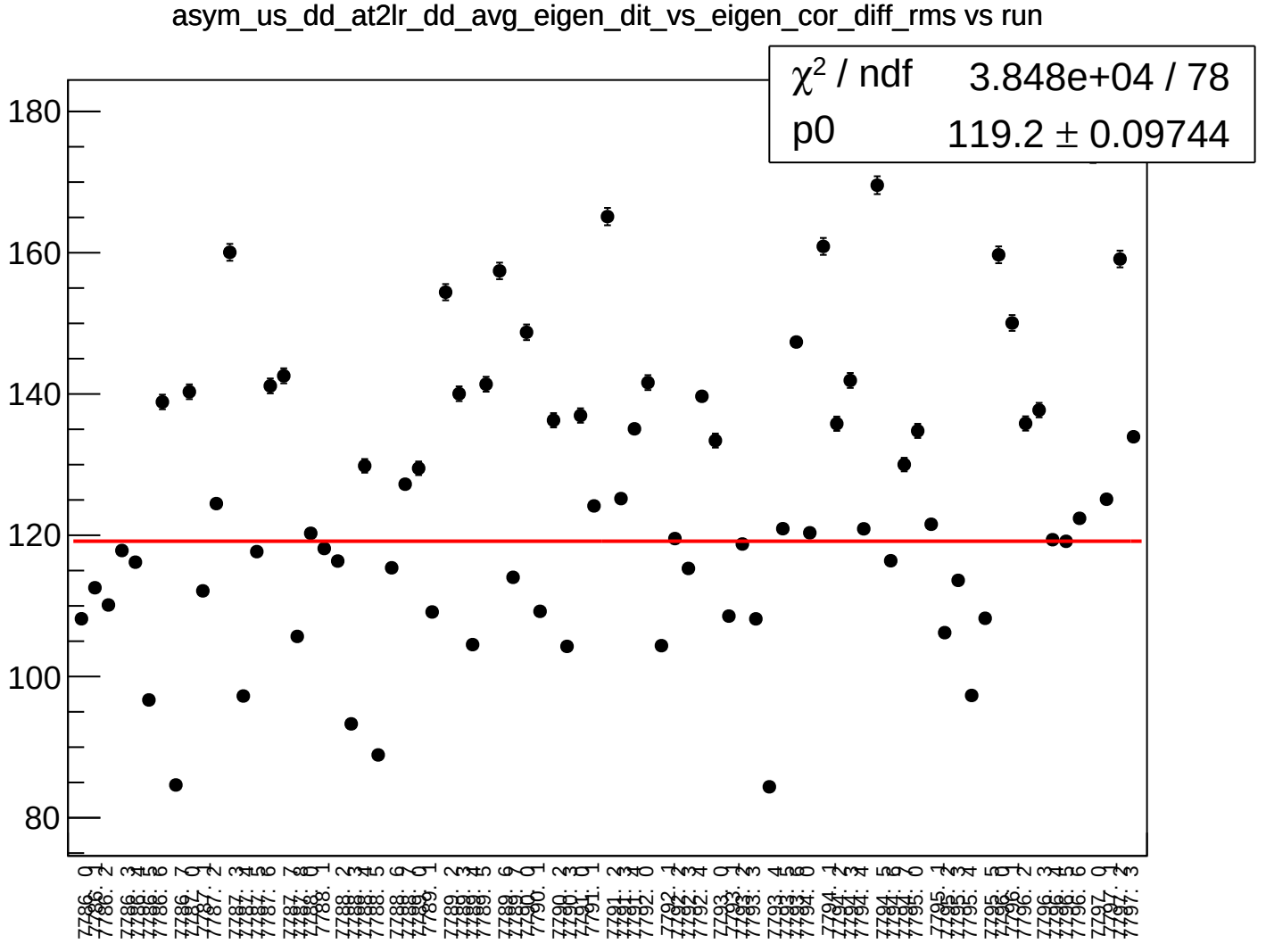


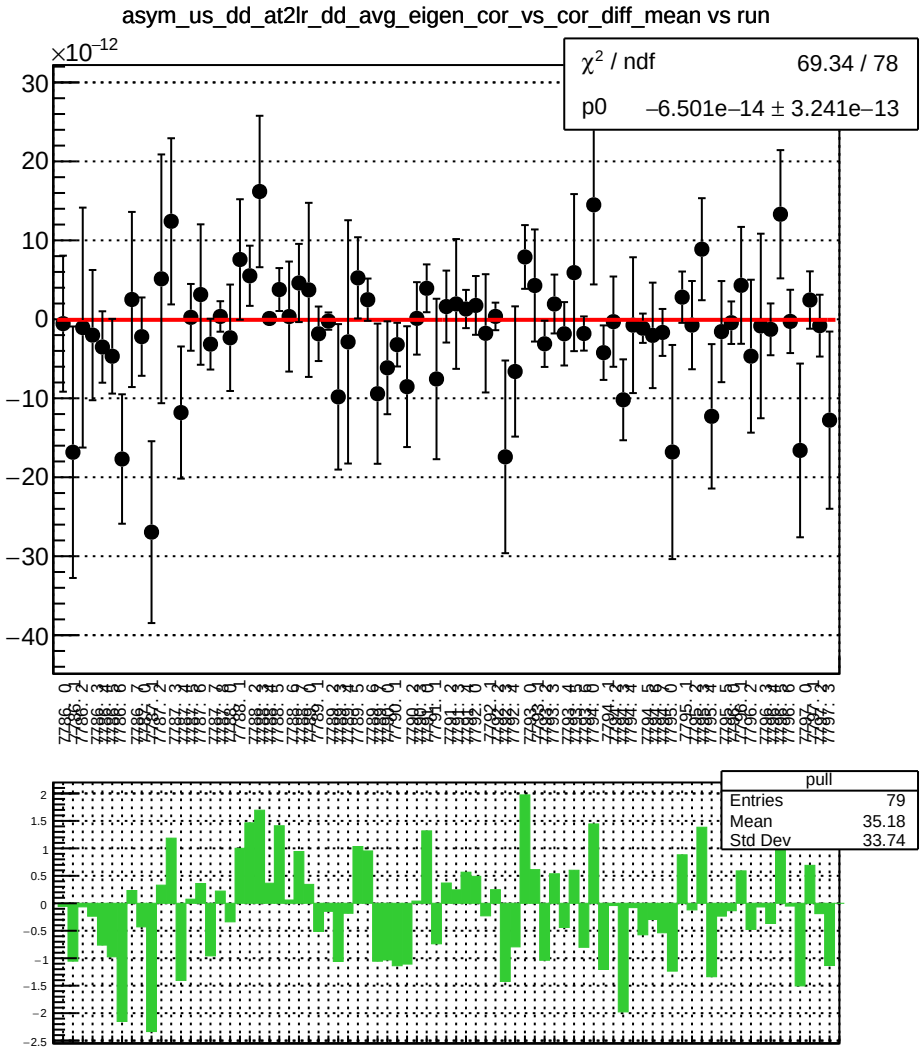


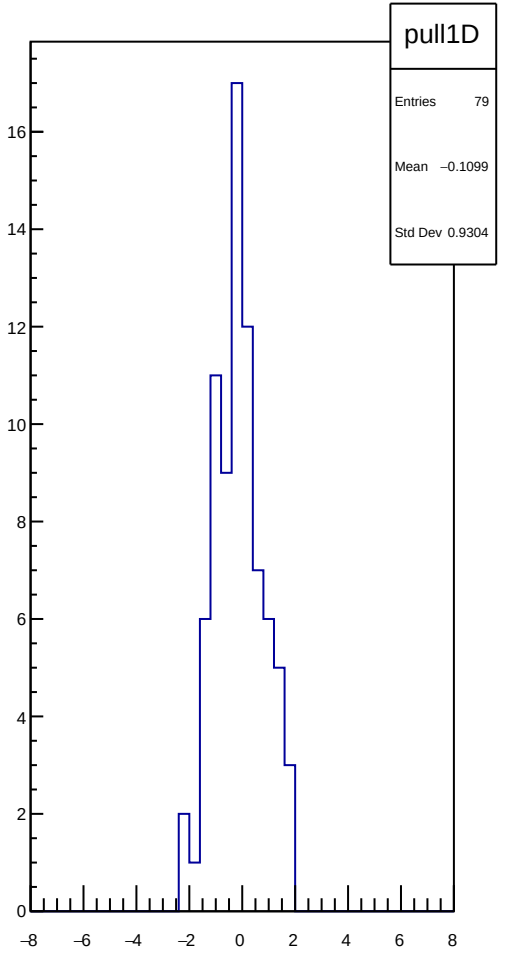

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.848e+04 / 78
p0 119.2 ± 0.09744
180
160
140
120
100
80

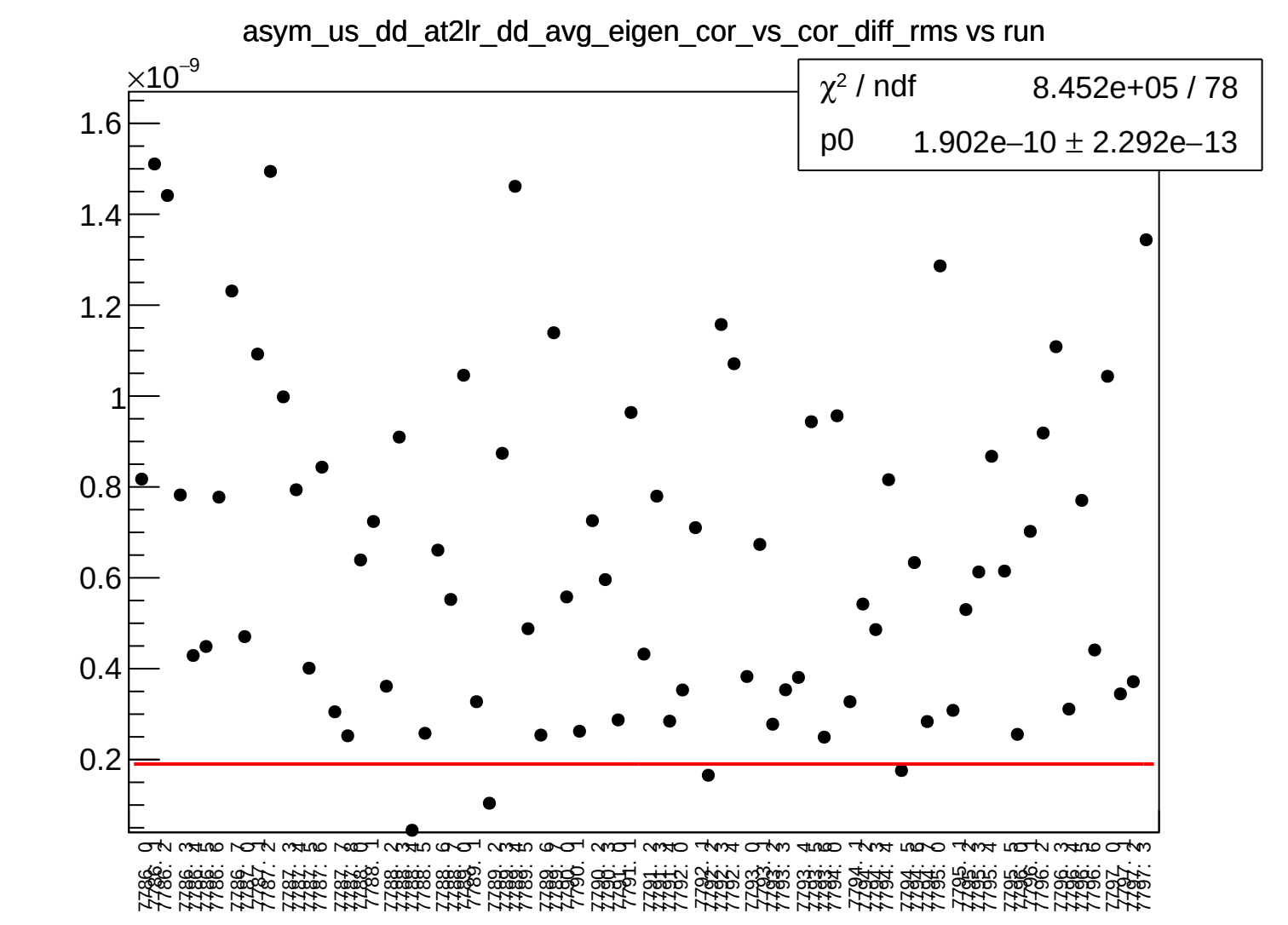

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.41 / 78
p0 −0.2968 ± 0.1378
pull
Entries 79
Mean 435.1
Std Dev 0

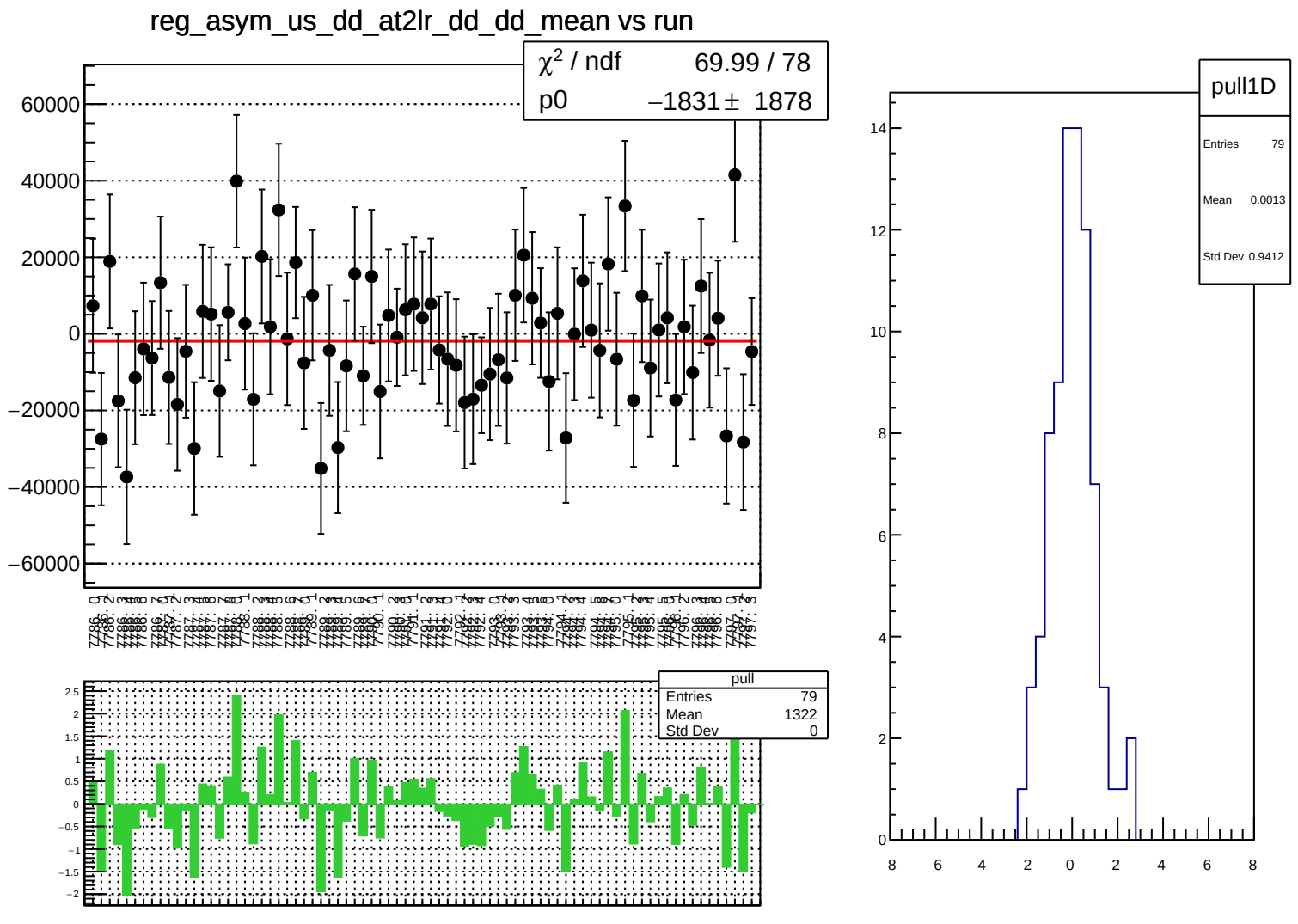

pull1D
Entries 79
Mean 0.01034
Std Dev 0.9373

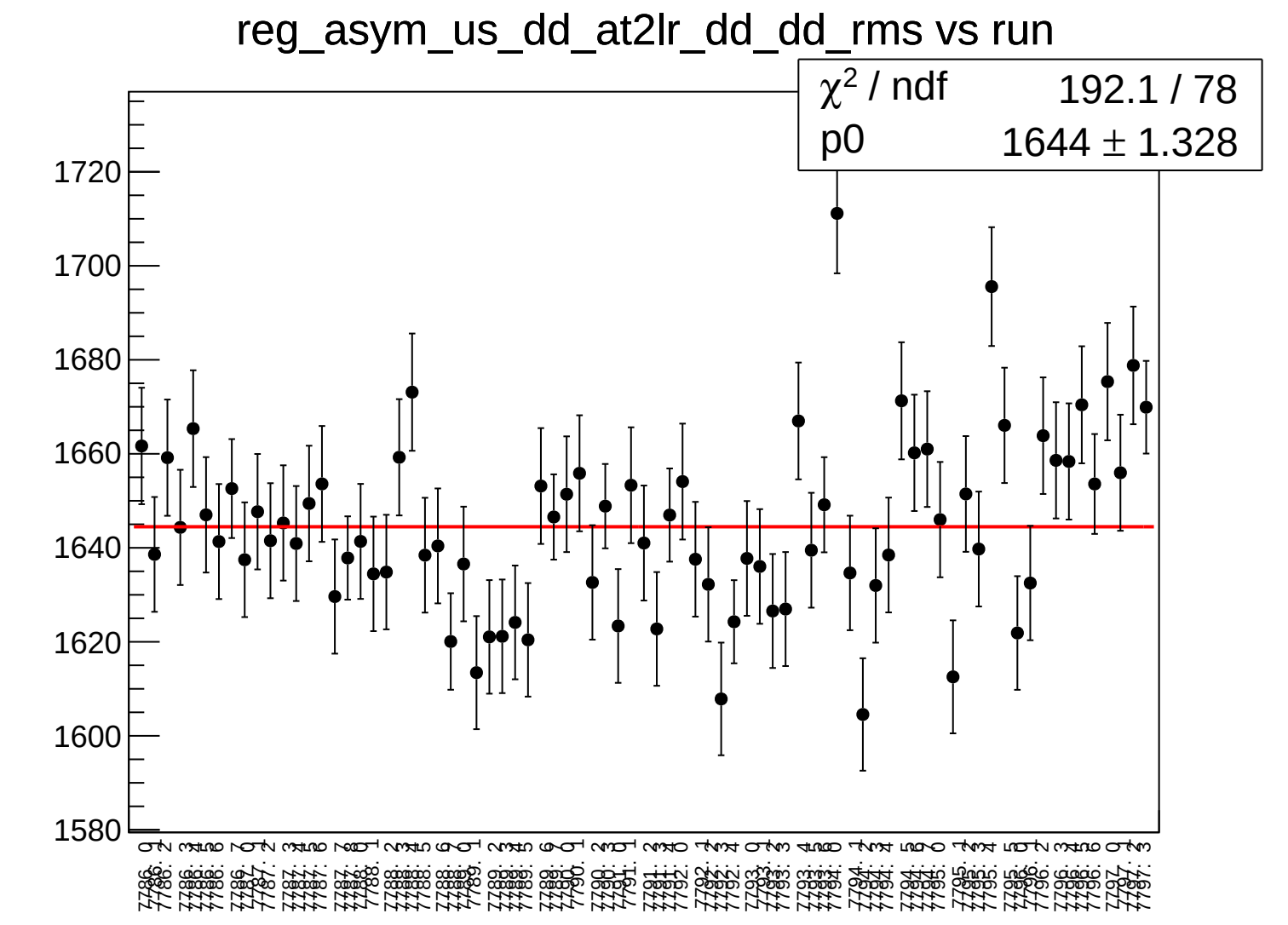

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.848e+04 / 78
p0 119.2 ± 0.09744
180
160
140
120
100
80

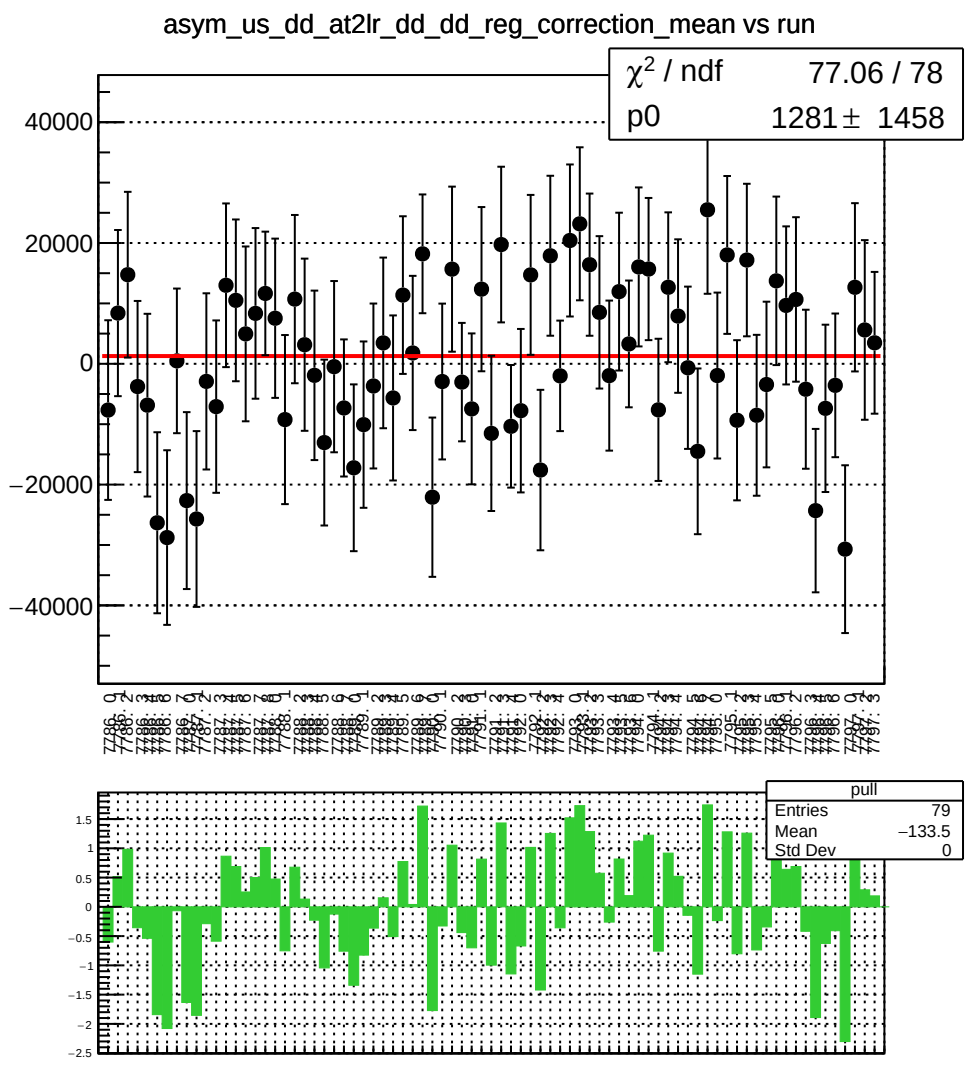

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.34 / 78
p0 −6.501e−14 ± 3.241e−13
pull
Entries 79
Mean 35.18
Std Dev 33.74

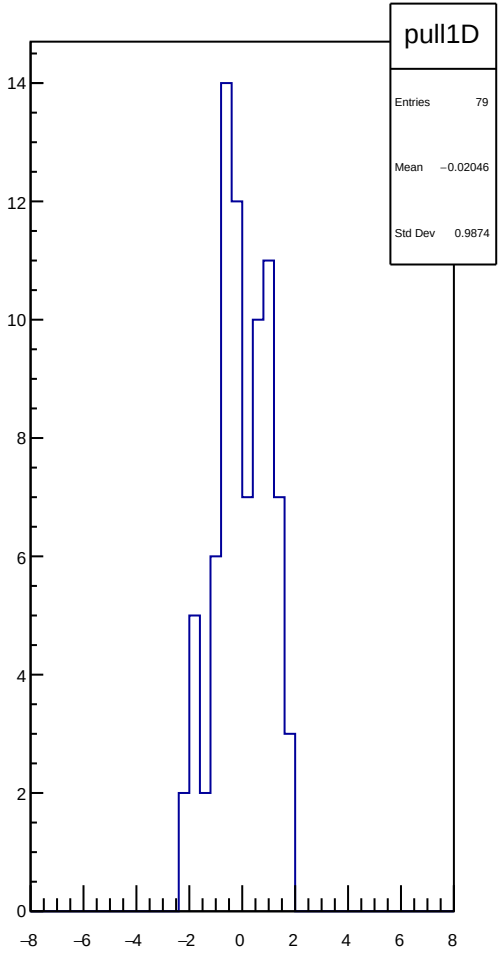

pull1D
Entries 79
Mean −0.1099
Std Dev 0.9304

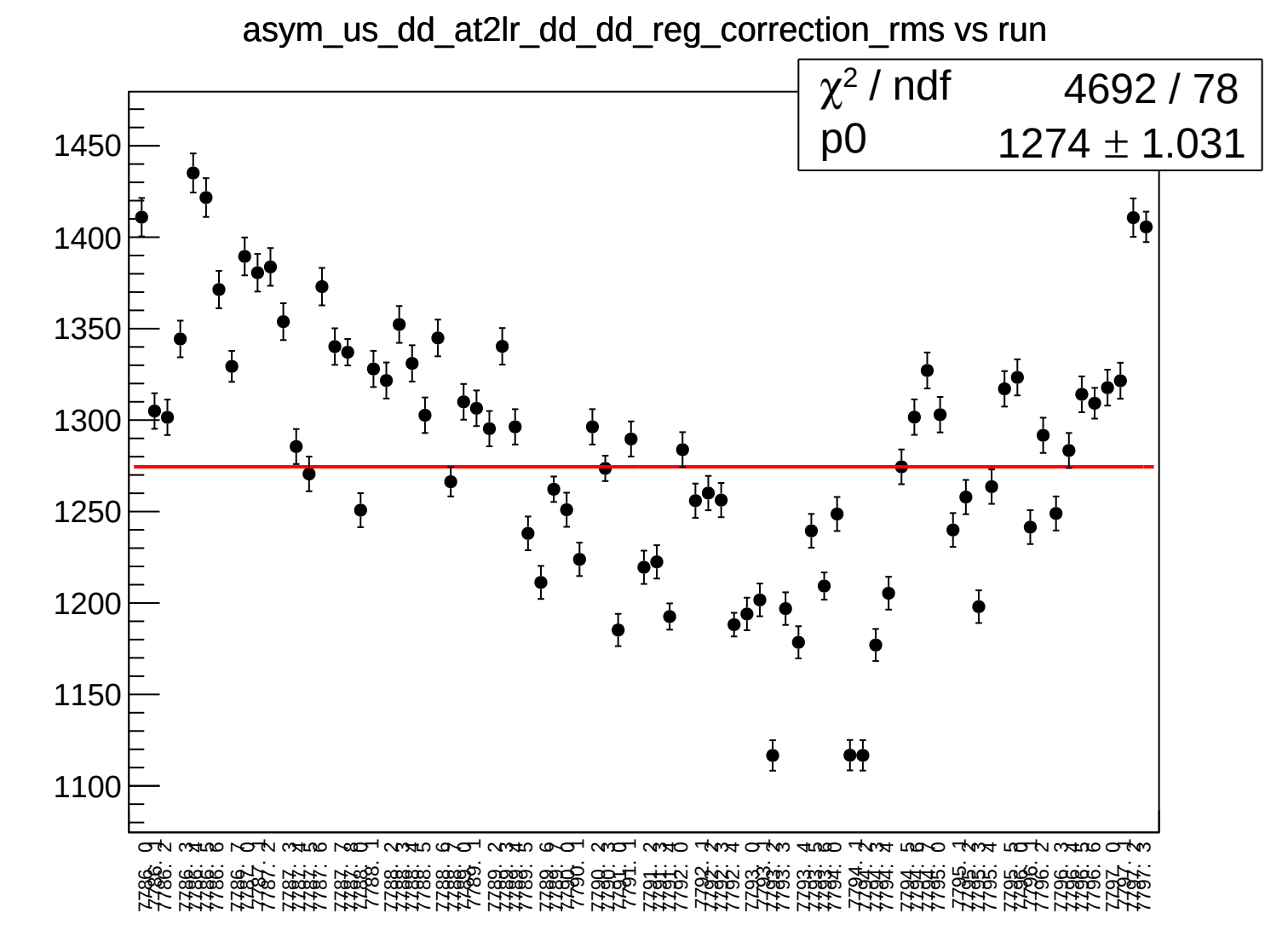

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.452e+05 / 78
p0 1.902e−10 ± 2.292e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

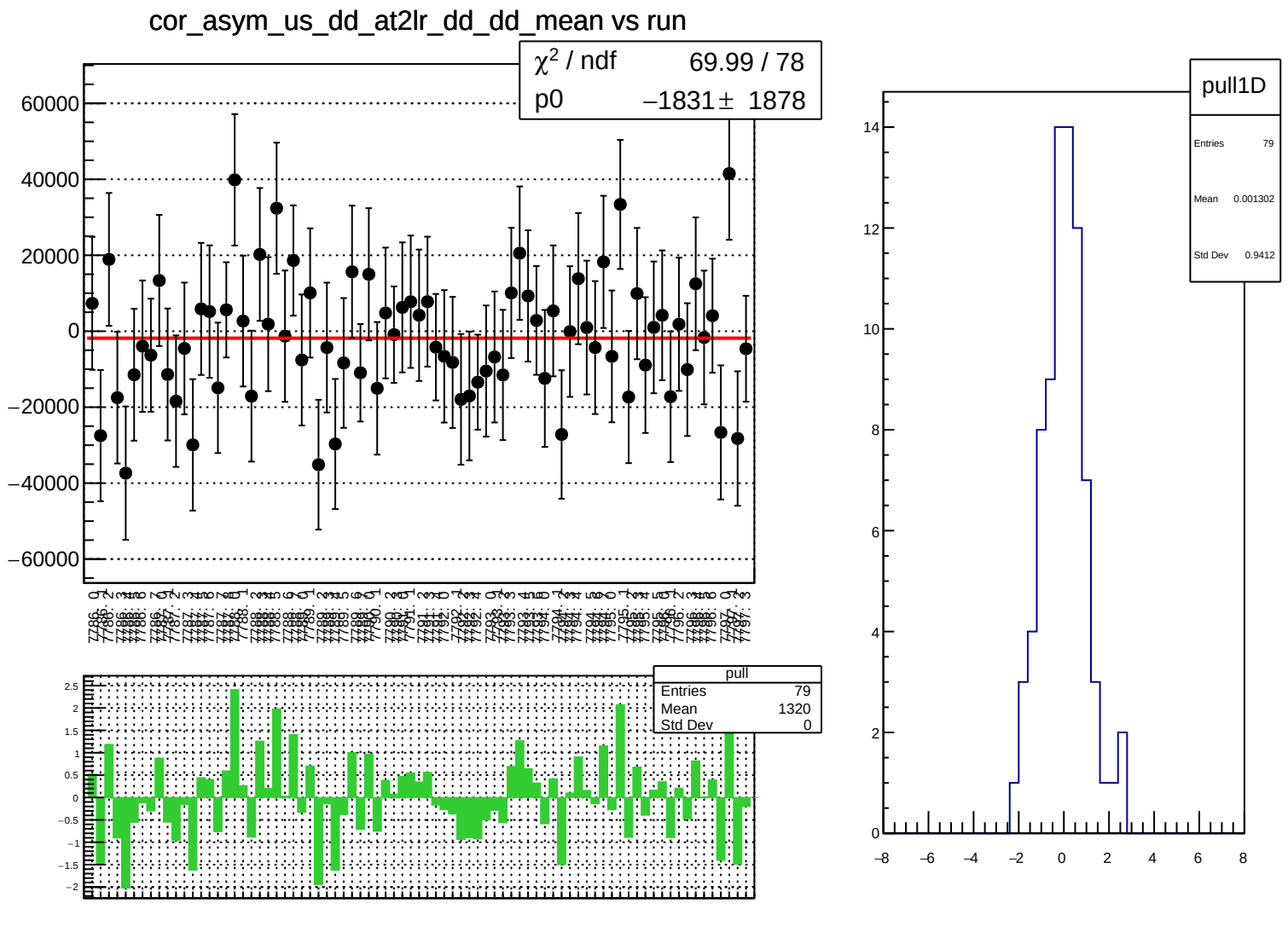

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 69.99 / 78
p0 −1831 ± 1878
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 1322
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 79
Mean 0.0013
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

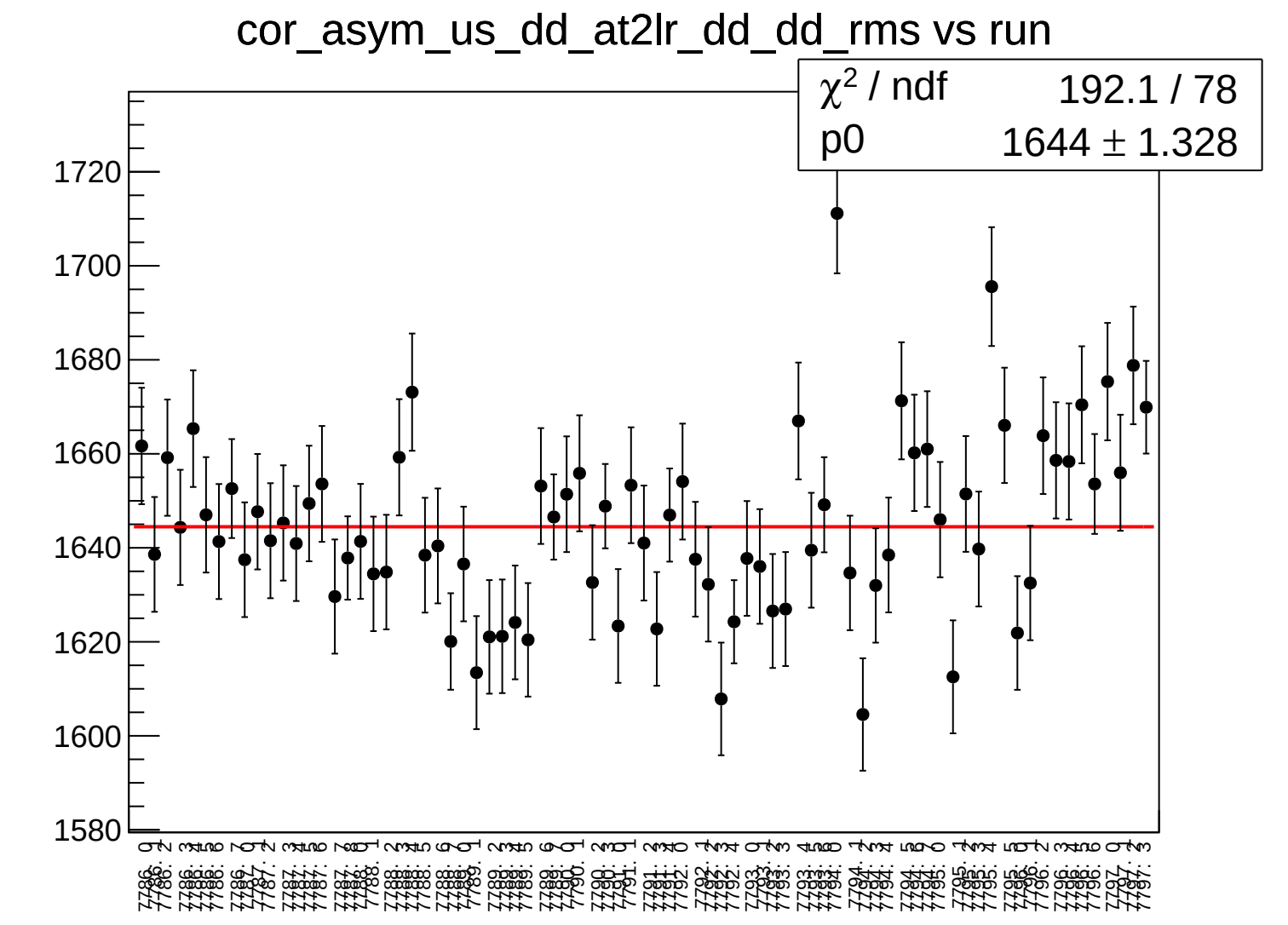

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 192.1 / 78
p0 1644 ± 1.328
1720
1700
1680
1660
1640
1620
1600
1580

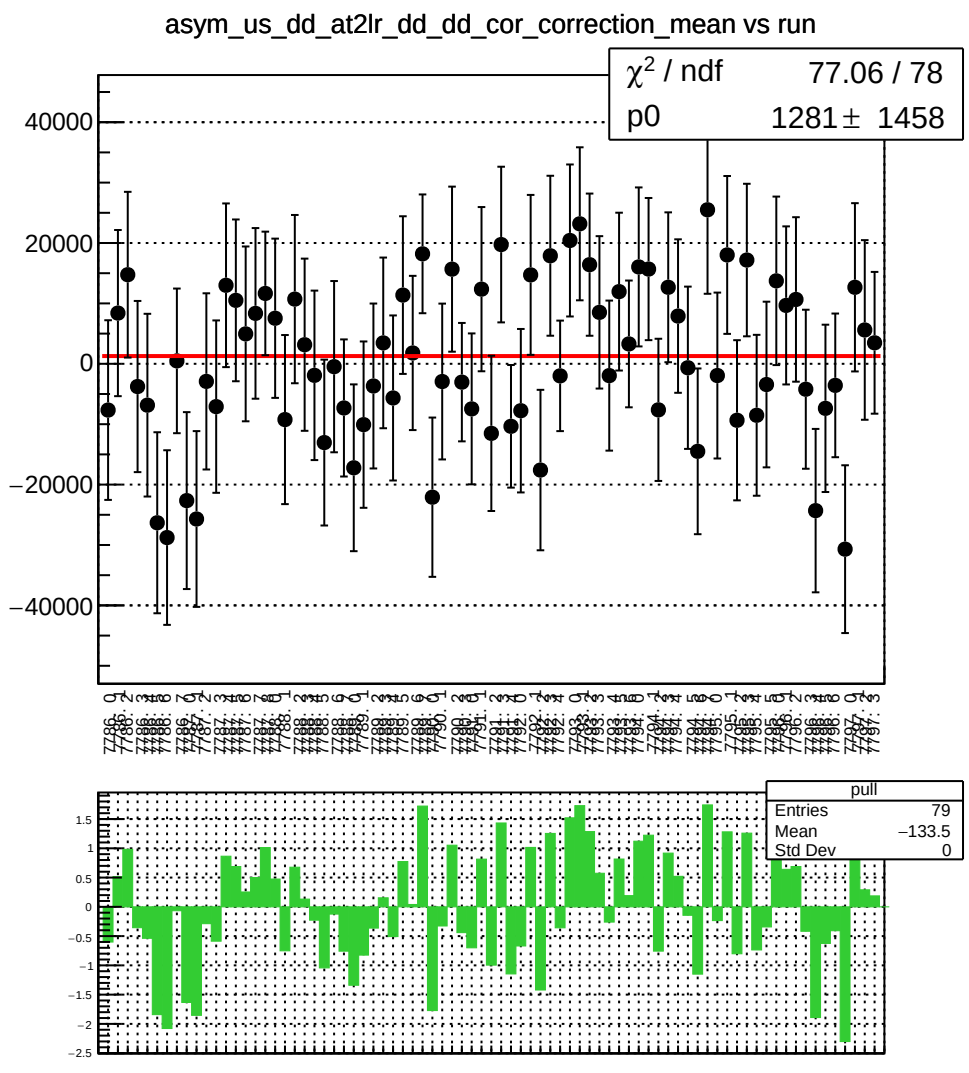

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 77.06 / 78
p0 1281 ± 1458
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −133.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

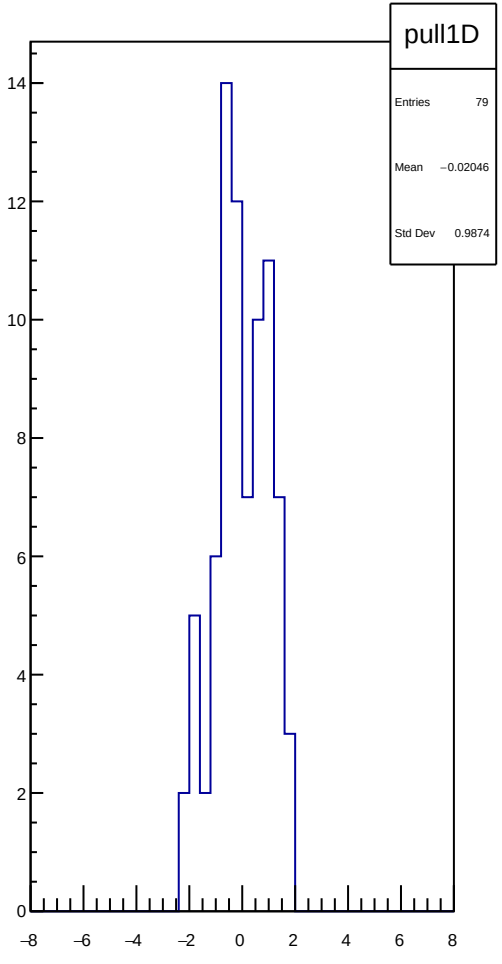

pull1D
Entries 79
Mean −0.02046
Std Dev 0.9874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

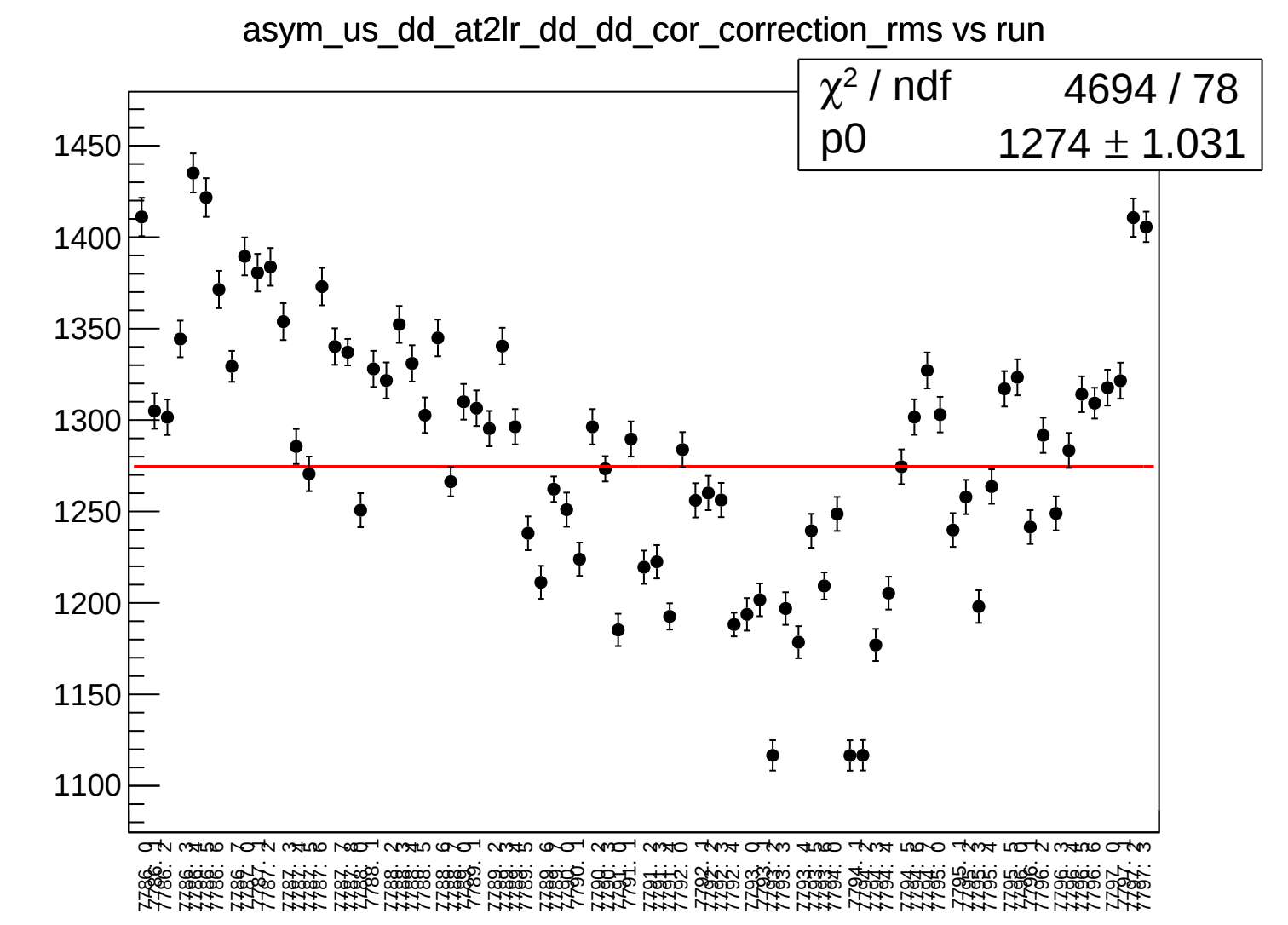

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 4692 / 78
p0 1274 ± 1.031
1450
1400
1350
1300
1250
1200
1150
1100

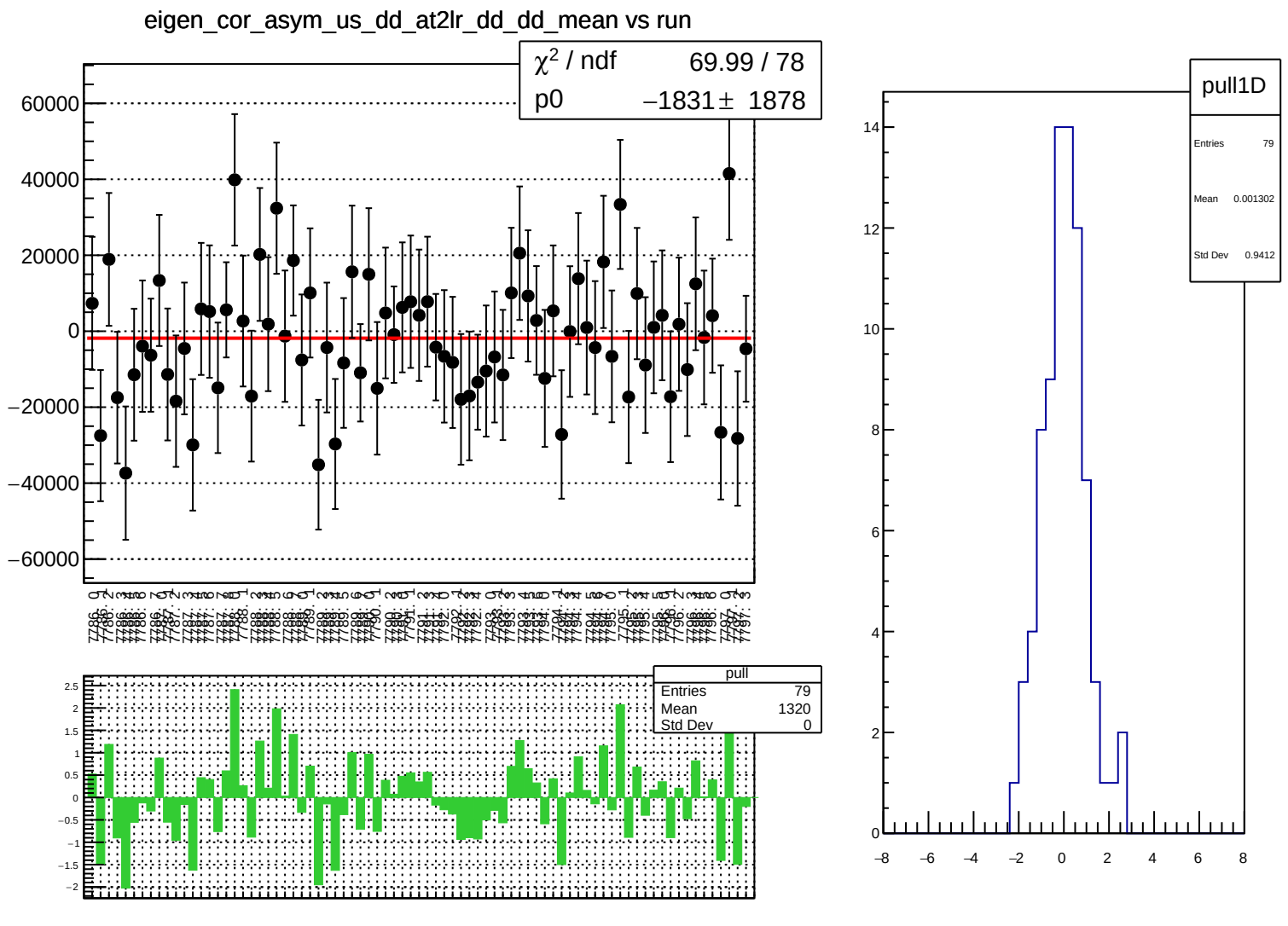

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ^2 / ndf 69.99 / 78
p0 −1831 ± 1878
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 1320
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 79
Mean 0.001302
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

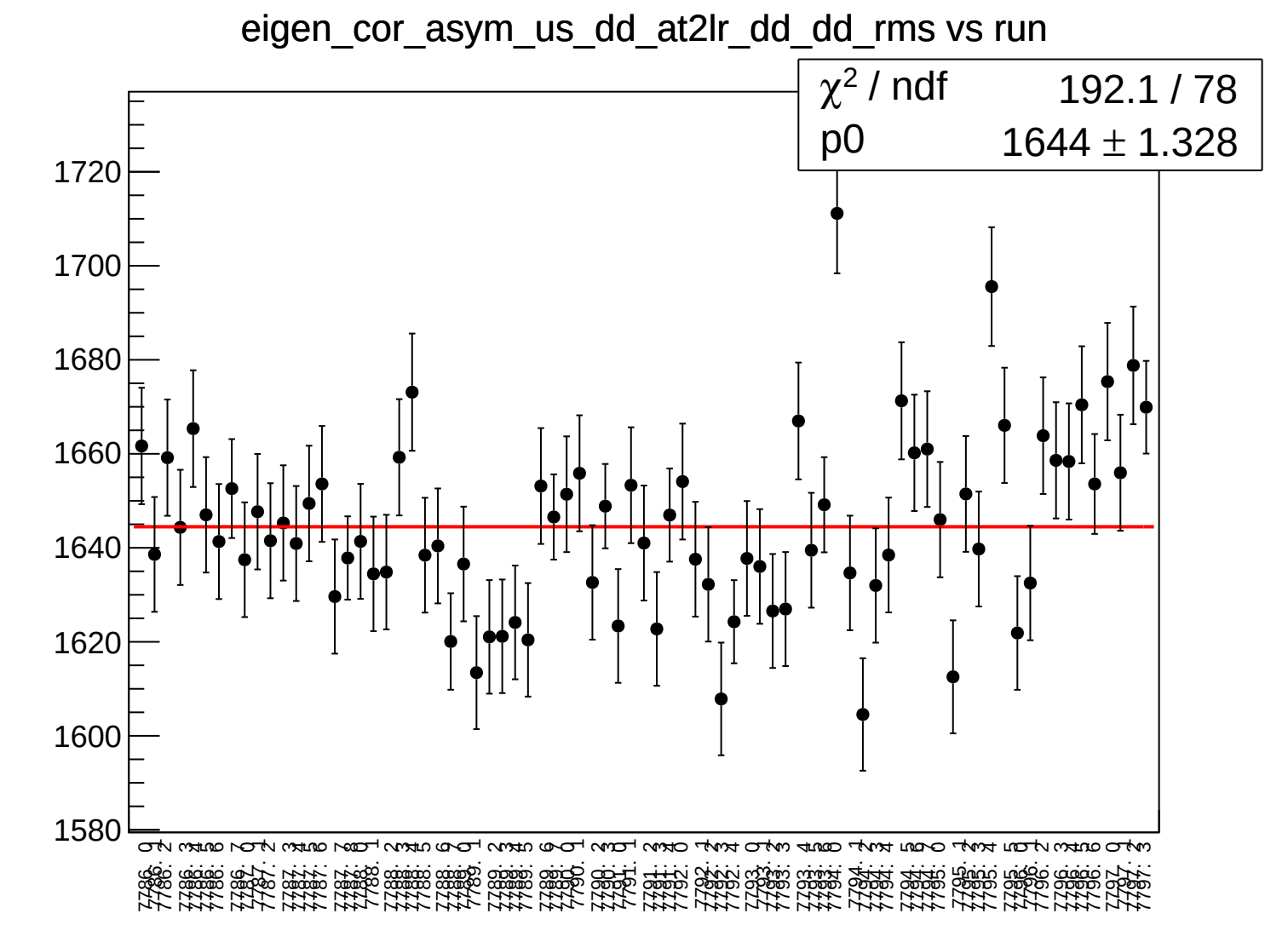

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 192.1 / 78
p0 1644 ± 1.328
1720
1700
1680
1660
1640
1620
1600
1580

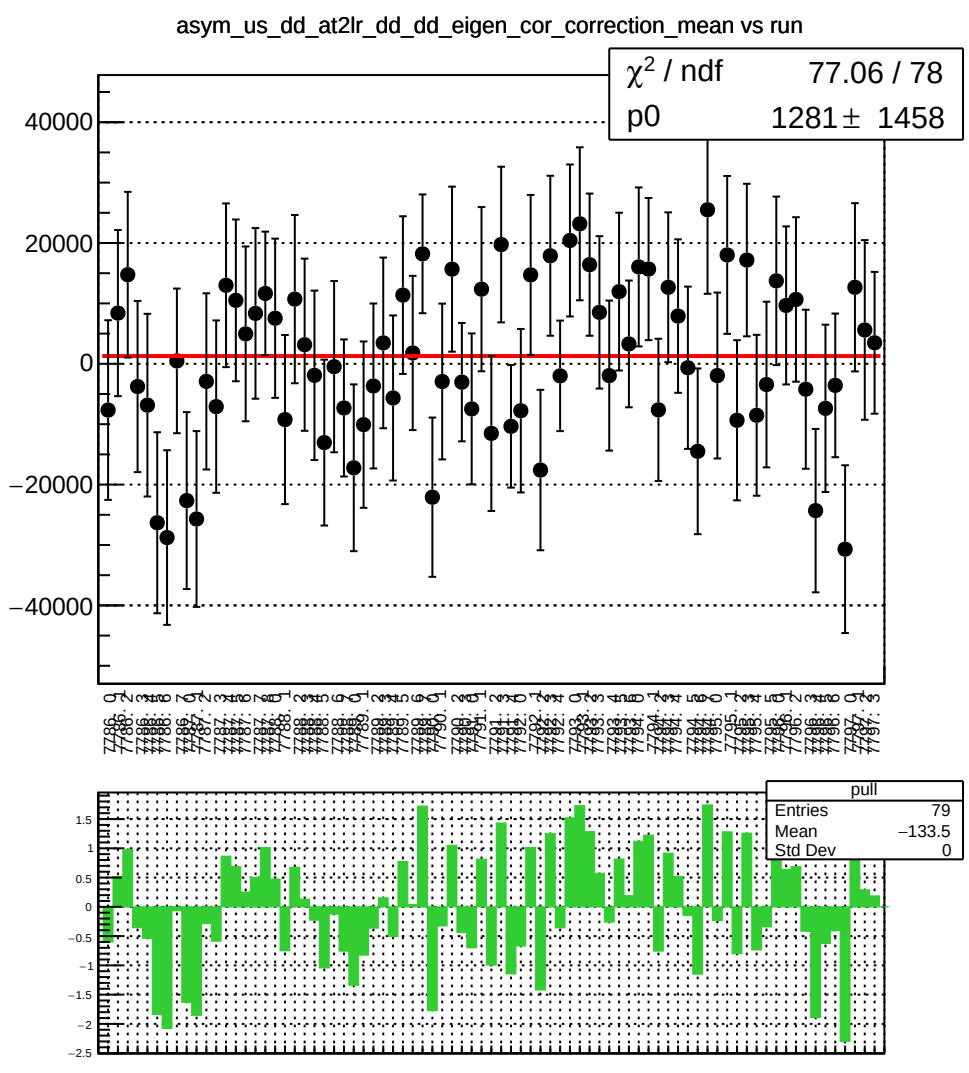

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 77.06 / 78
p0 1281 ± 1458
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −133.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

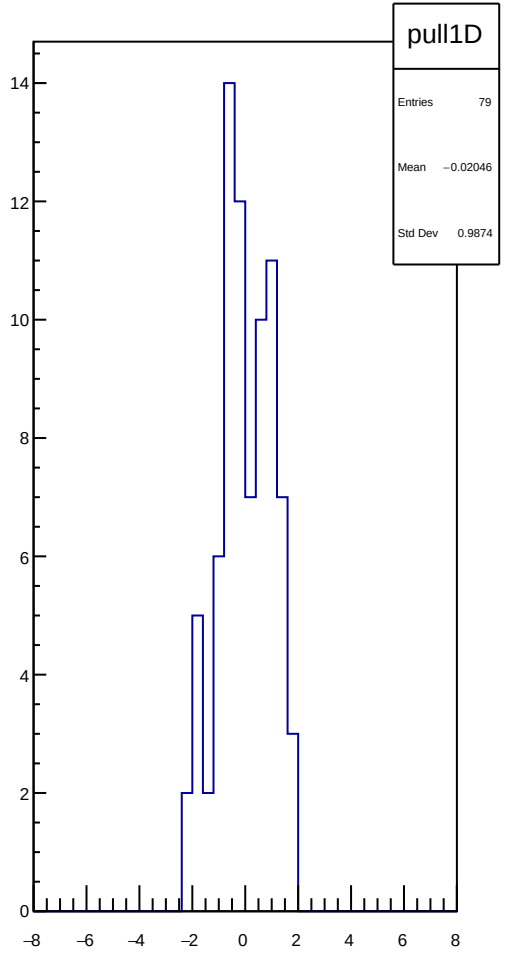

pull1D
Entries 79
Mean −0.02046
Std Dev 0.9874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

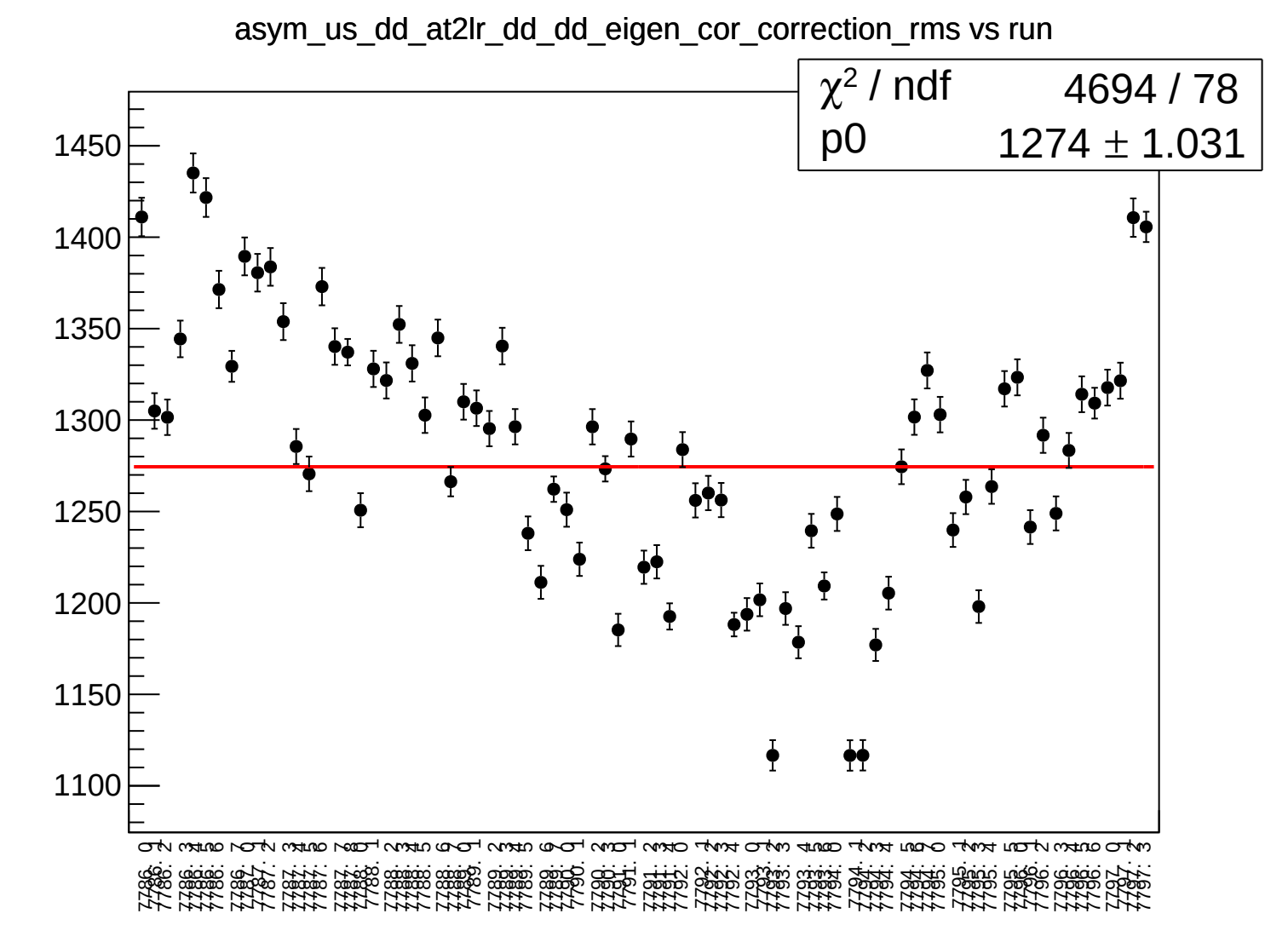

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 4694 / 78
p0 1274 ± 1.031
1450
1400
1350
1300
1250
1200
1150
1100

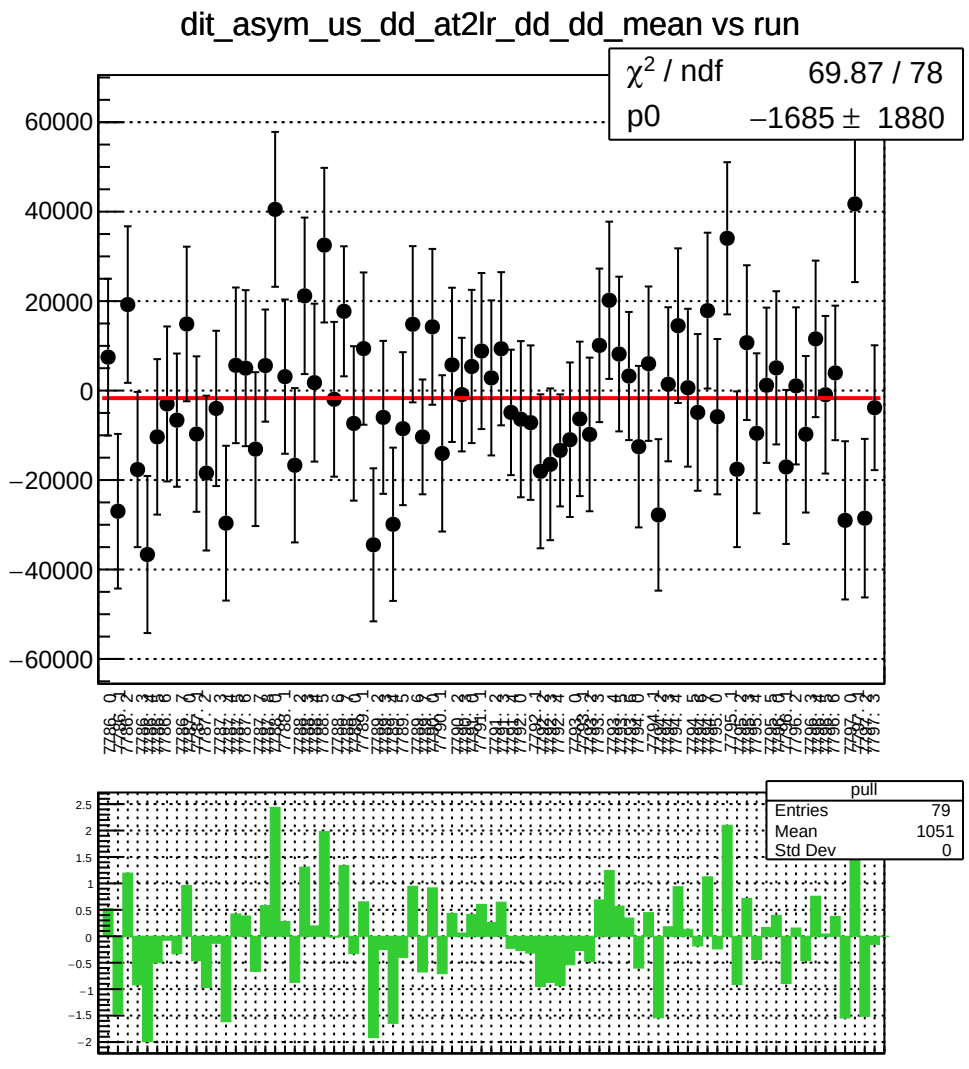

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 69.99 / 78
p0 −1831 ± 1878
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 1320
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 79
Mean 0.001302
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

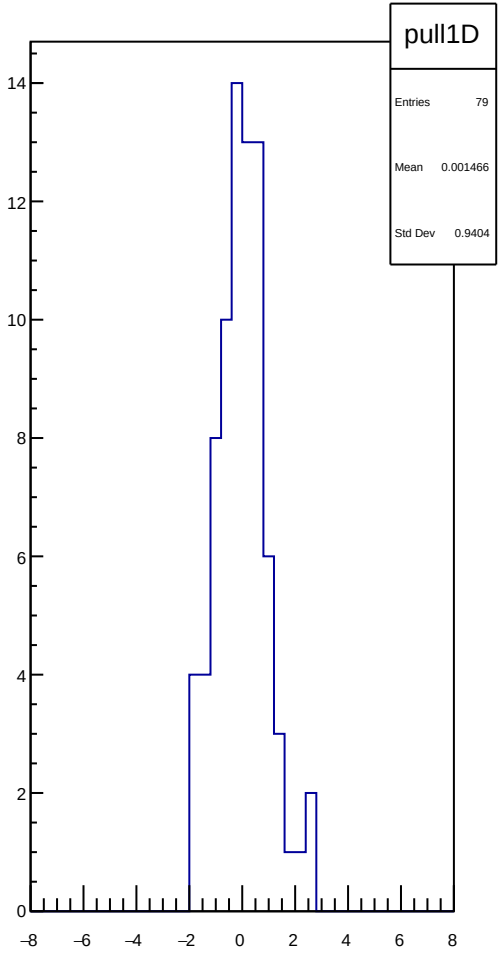

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 192.1 / 78
p0 1644 ± 1.328
1720
1700
1680
1660
1640
1620
1600
1580

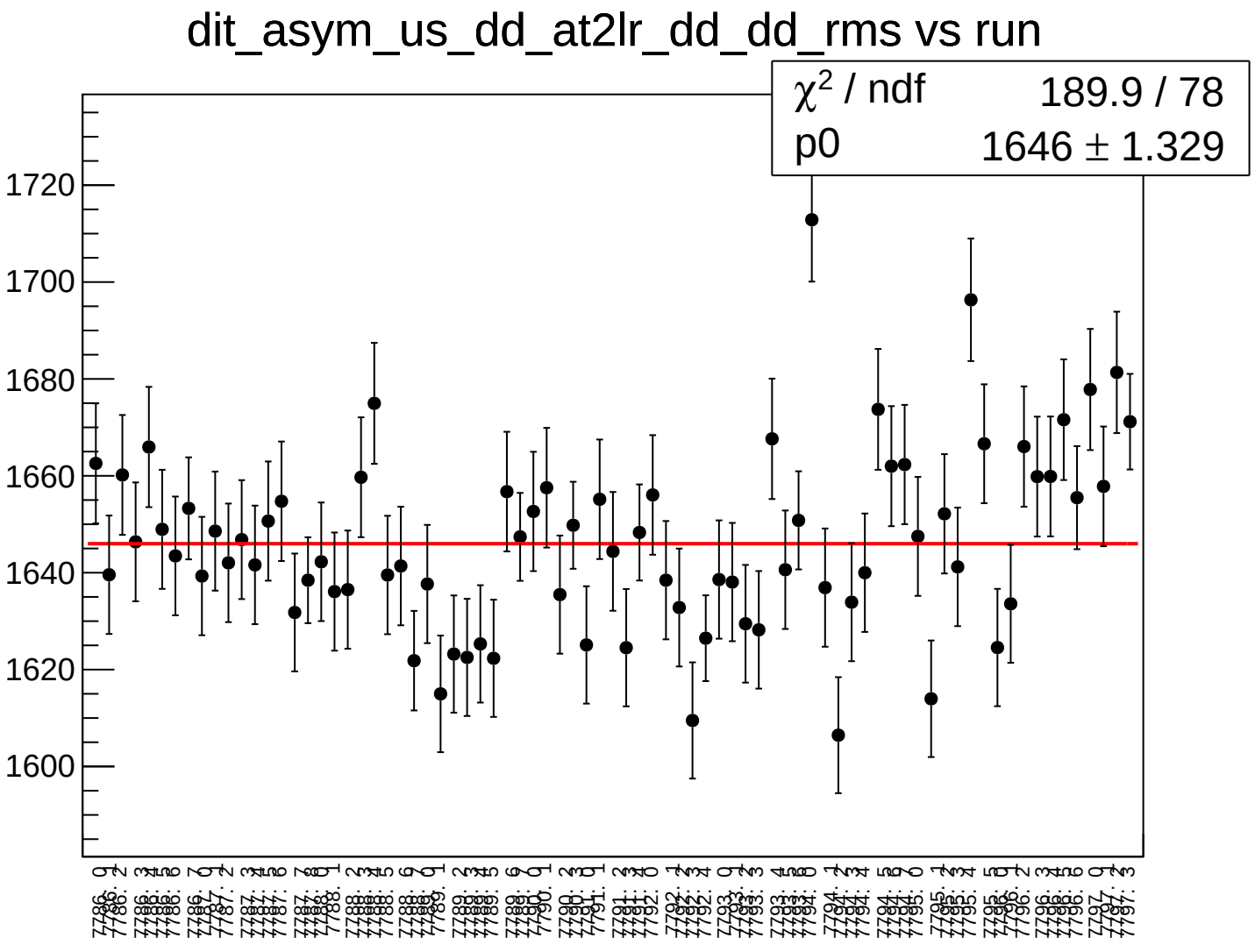

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.06 / 78
p0 1281 ± 1458
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −133.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

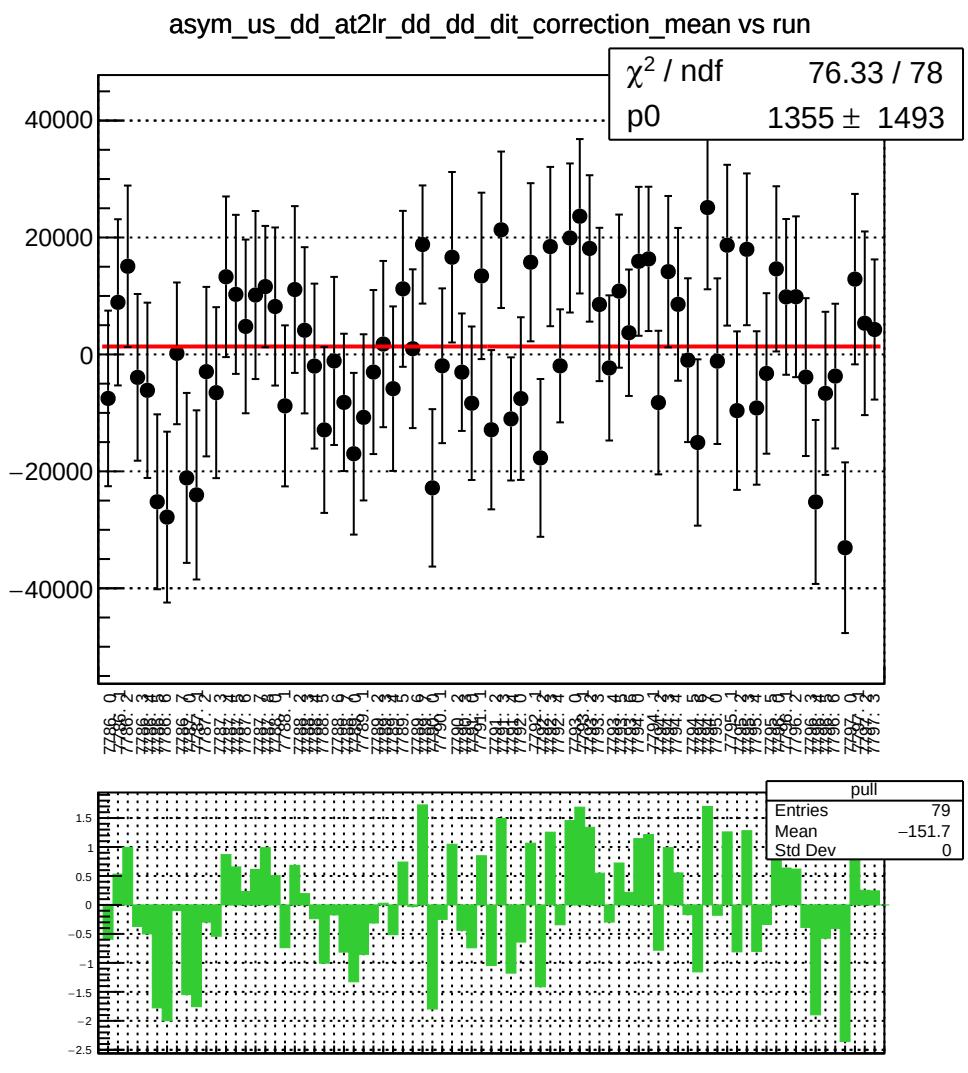

pull1D
Entries 79
Mean −0.02046
Std Dev 0.9874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

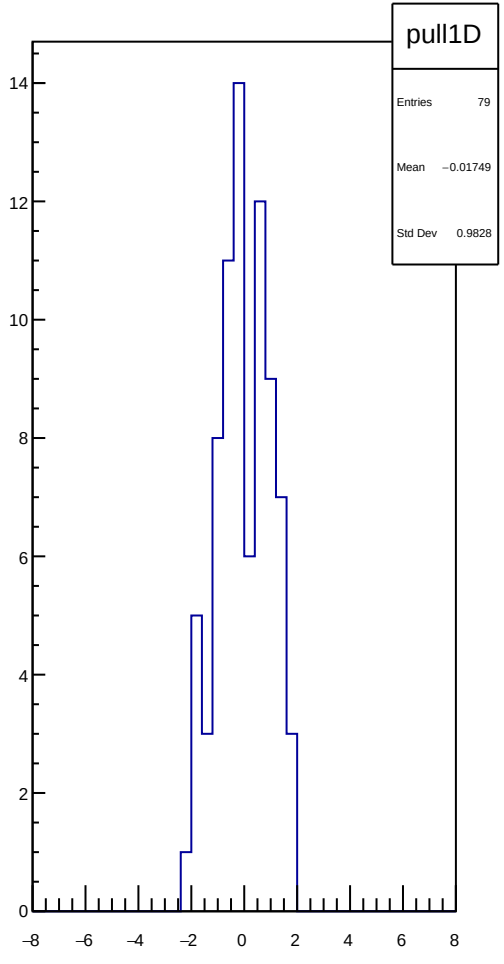

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4694 / 78
p0 1274 ± 1.031
1450
1400
1350
1300
1250
1200
1150
1100

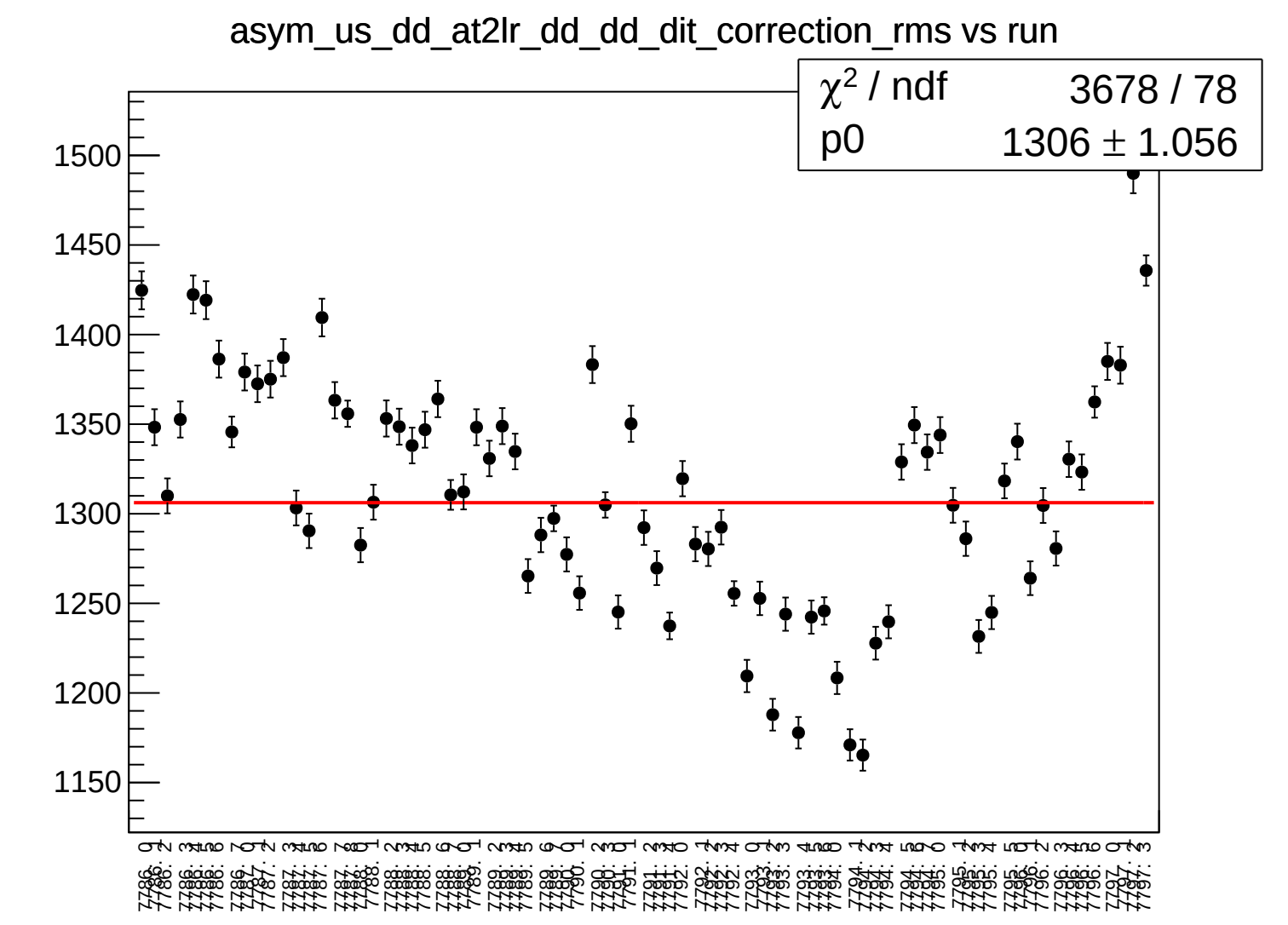

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 69.87 / 78
p0 −1685 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 1051
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

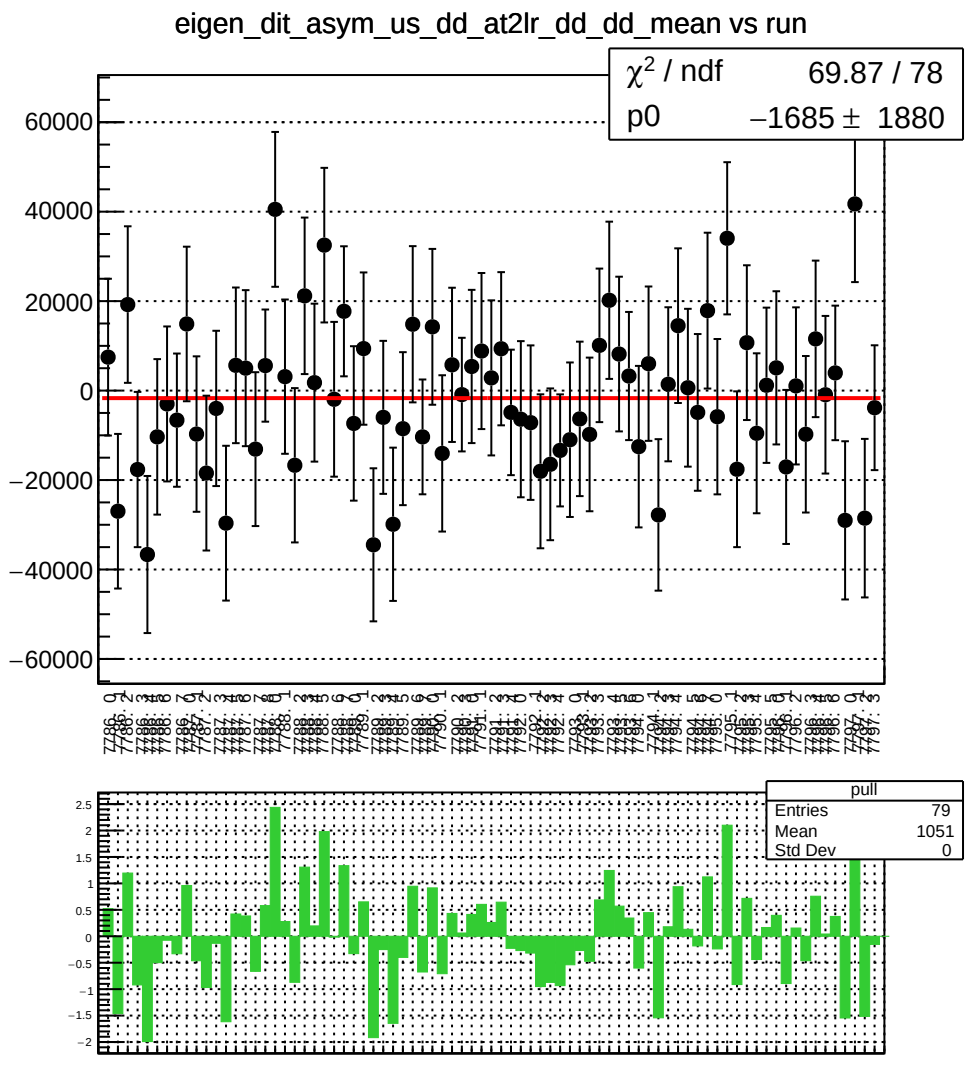

pull1D
Entries 79
Mean 0.001466
Std Dev 0.9404
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

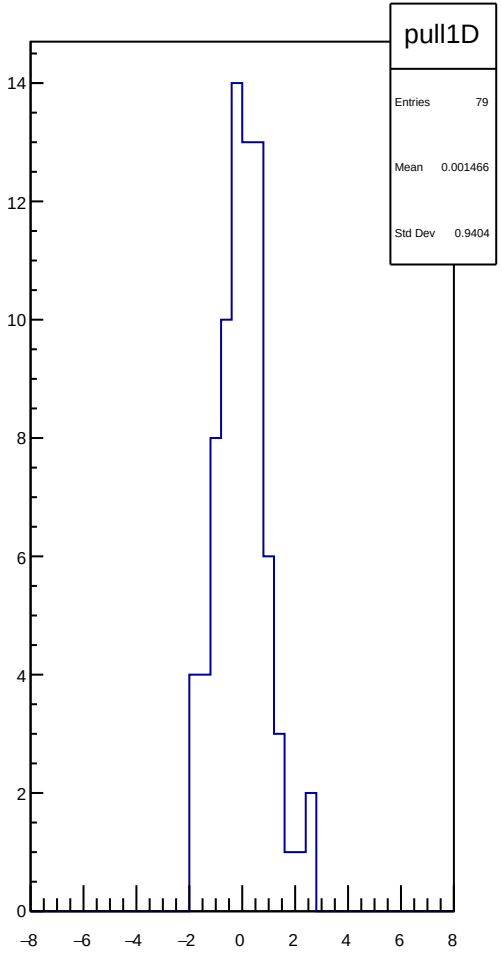

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 189.9 / 78
p0 1646 ± 1.329
1720
1700
1680
1660
1640
1620
1600

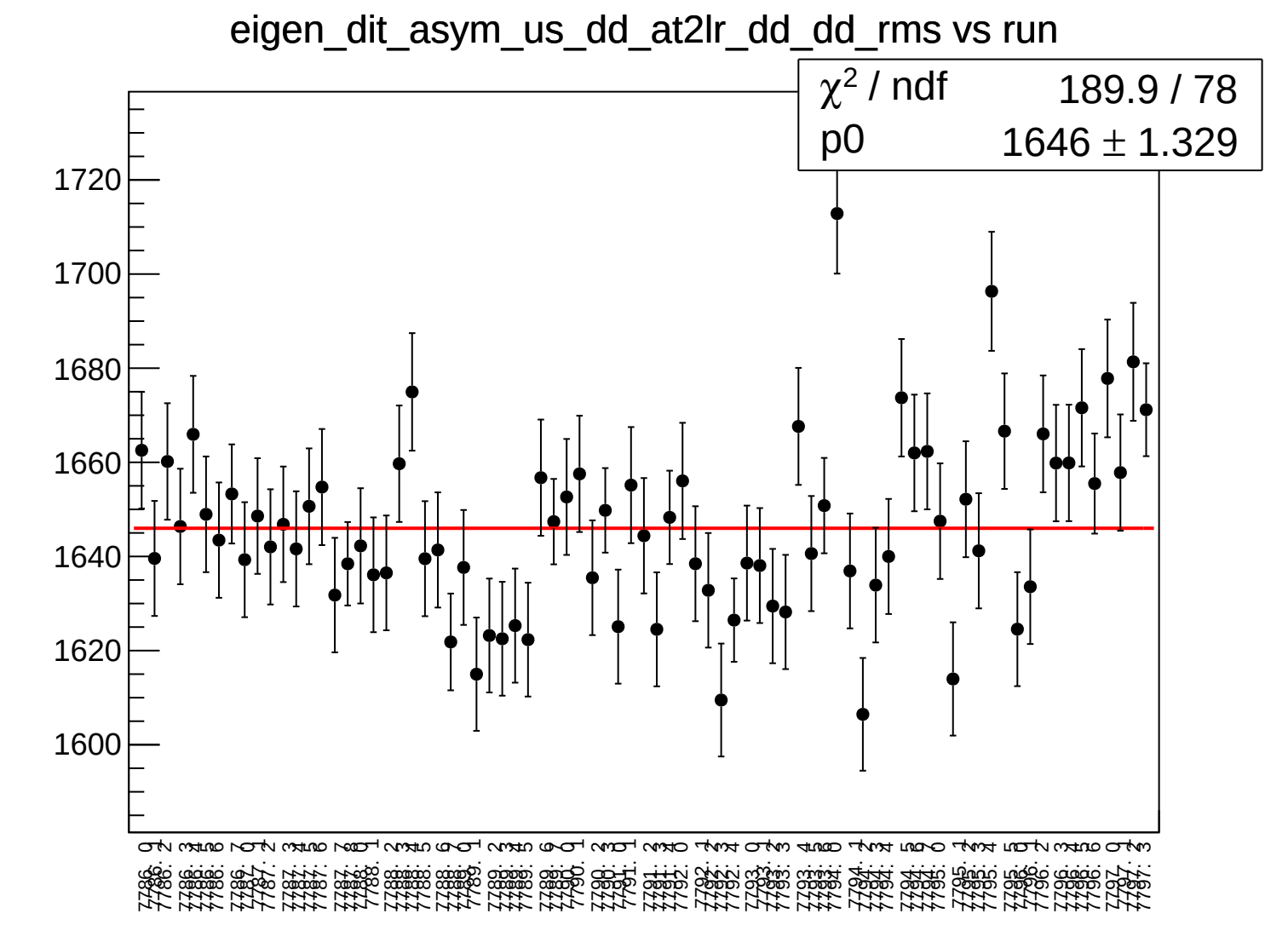

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 76.33 / 78
p0 1355 ± 1493
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −151.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

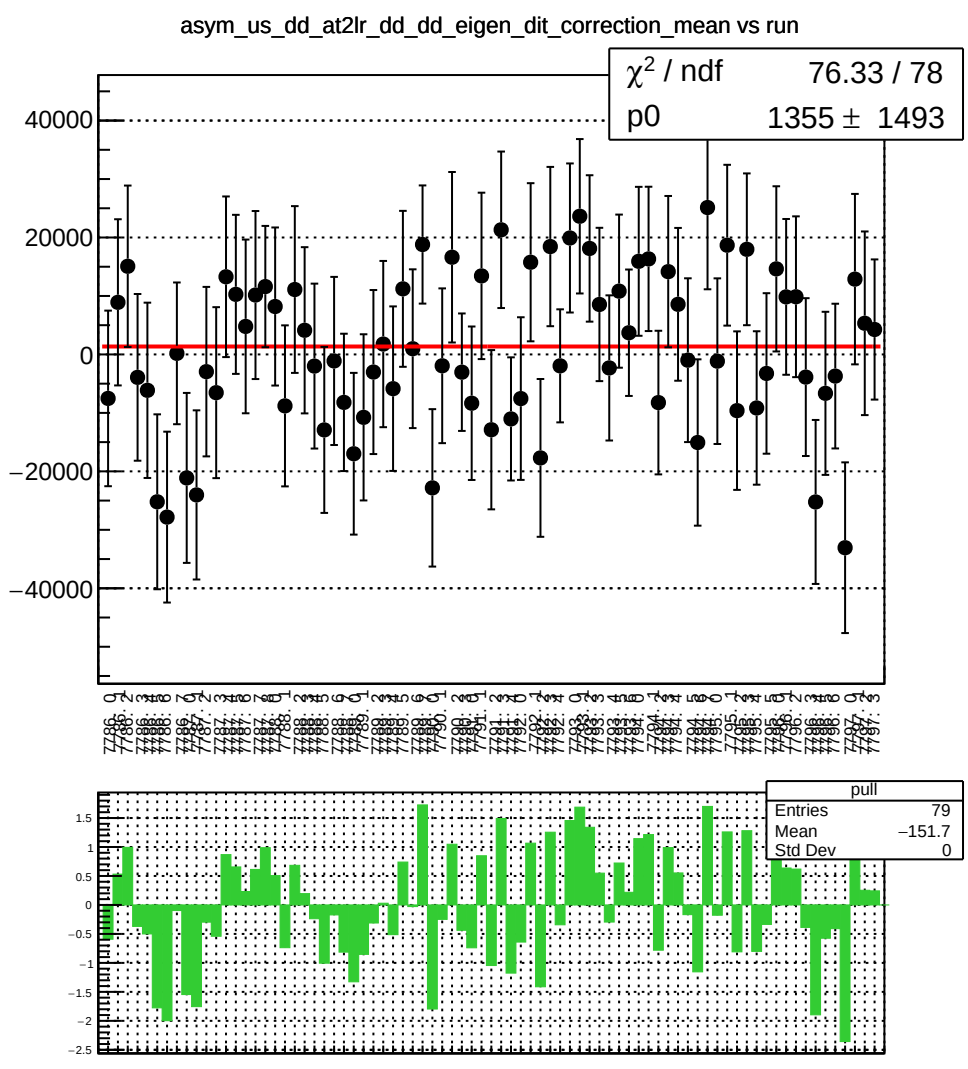

pull1D
Entries 79
Mean −0.01749
Std Dev 0.9828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

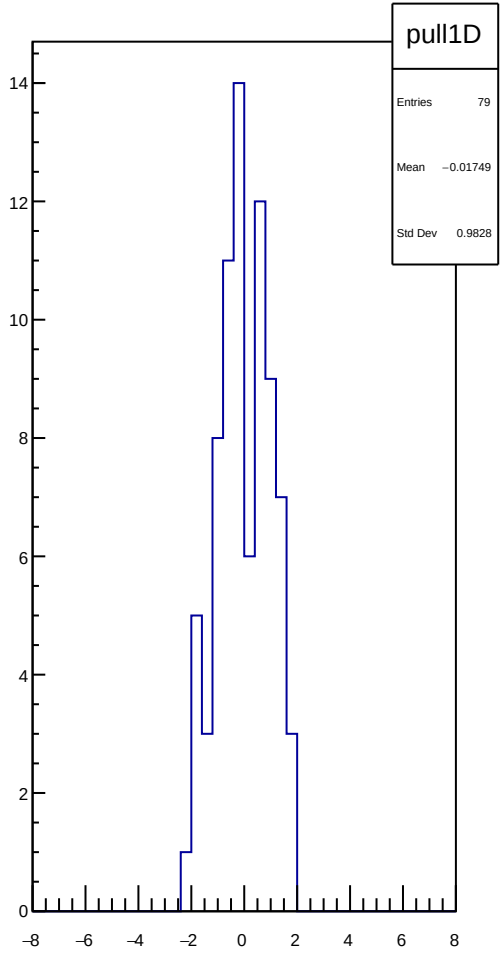

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ^2 / ndf 3678 / 78
p0 1306 ± 1.056
1500
1450
1400
1350
1300
1250
1200
1150

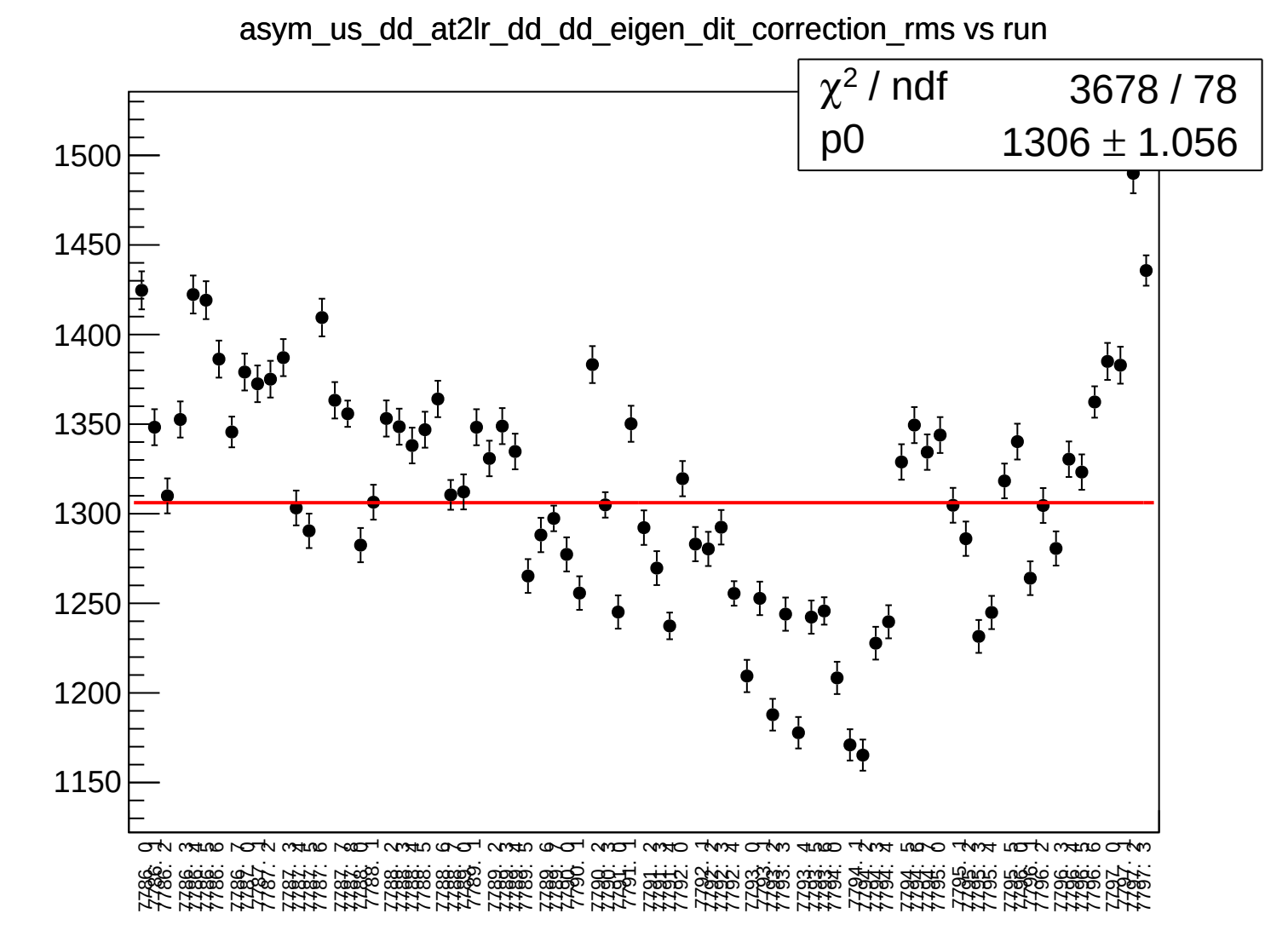

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 69.87 / 78
p0 −1685 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 1051
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

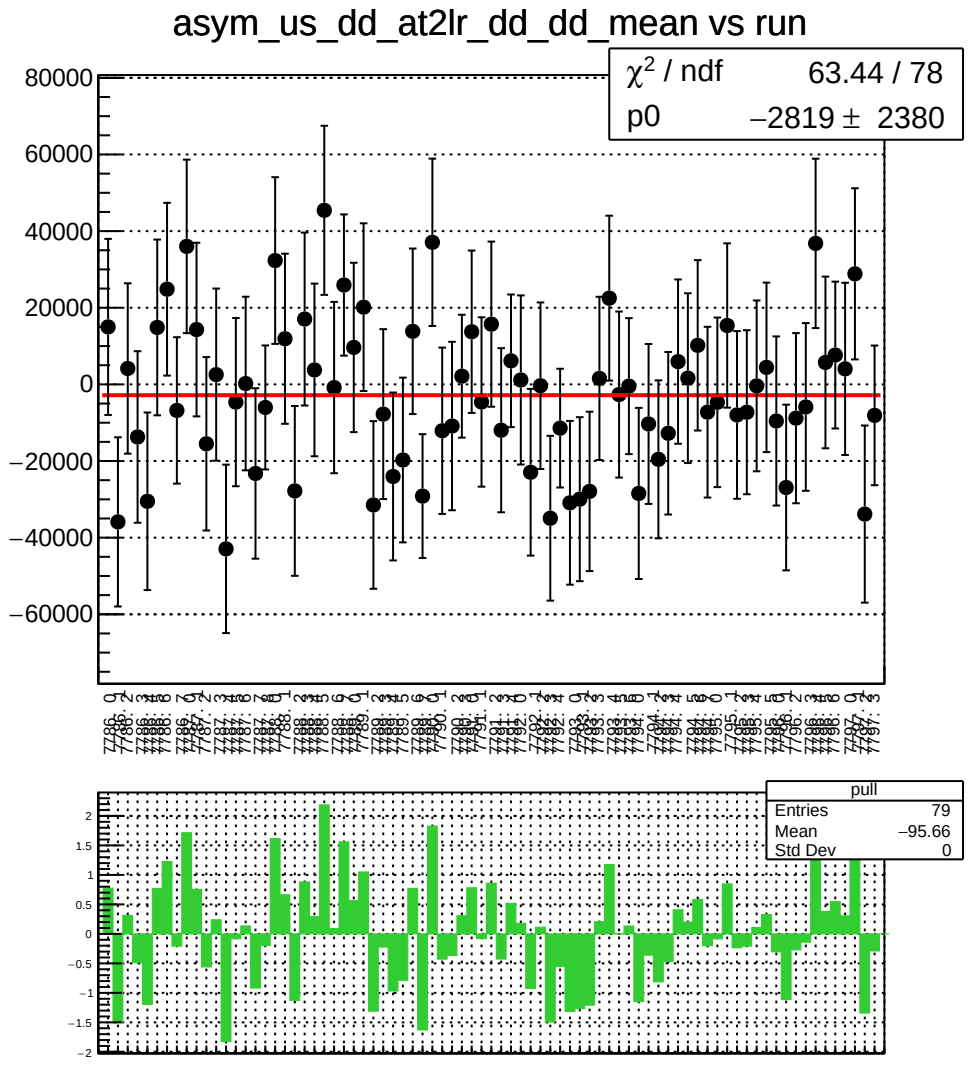

pull1D
Entries 79
Mean 0.001466
Std Dev 0.9404
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

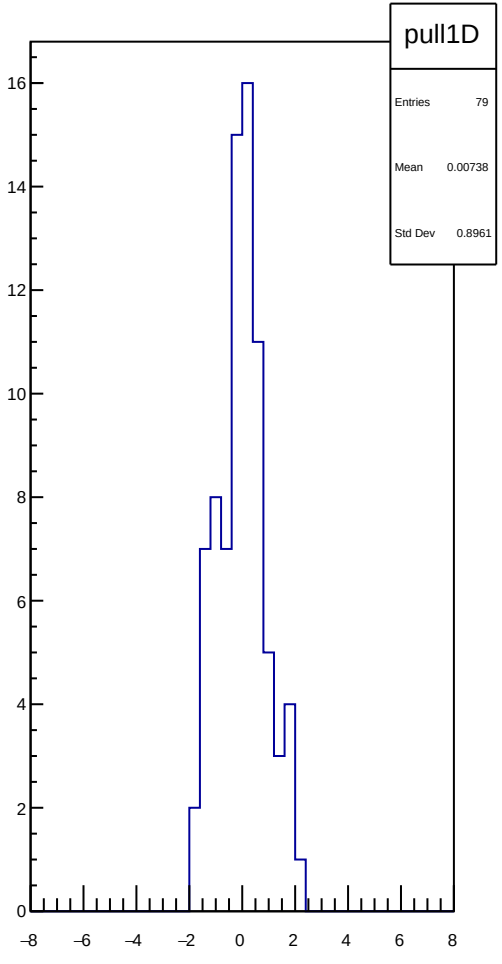

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 189.9 / 78
p0 1646 ± 1.329
1720
1700
1680
1660
1640
1620
1600

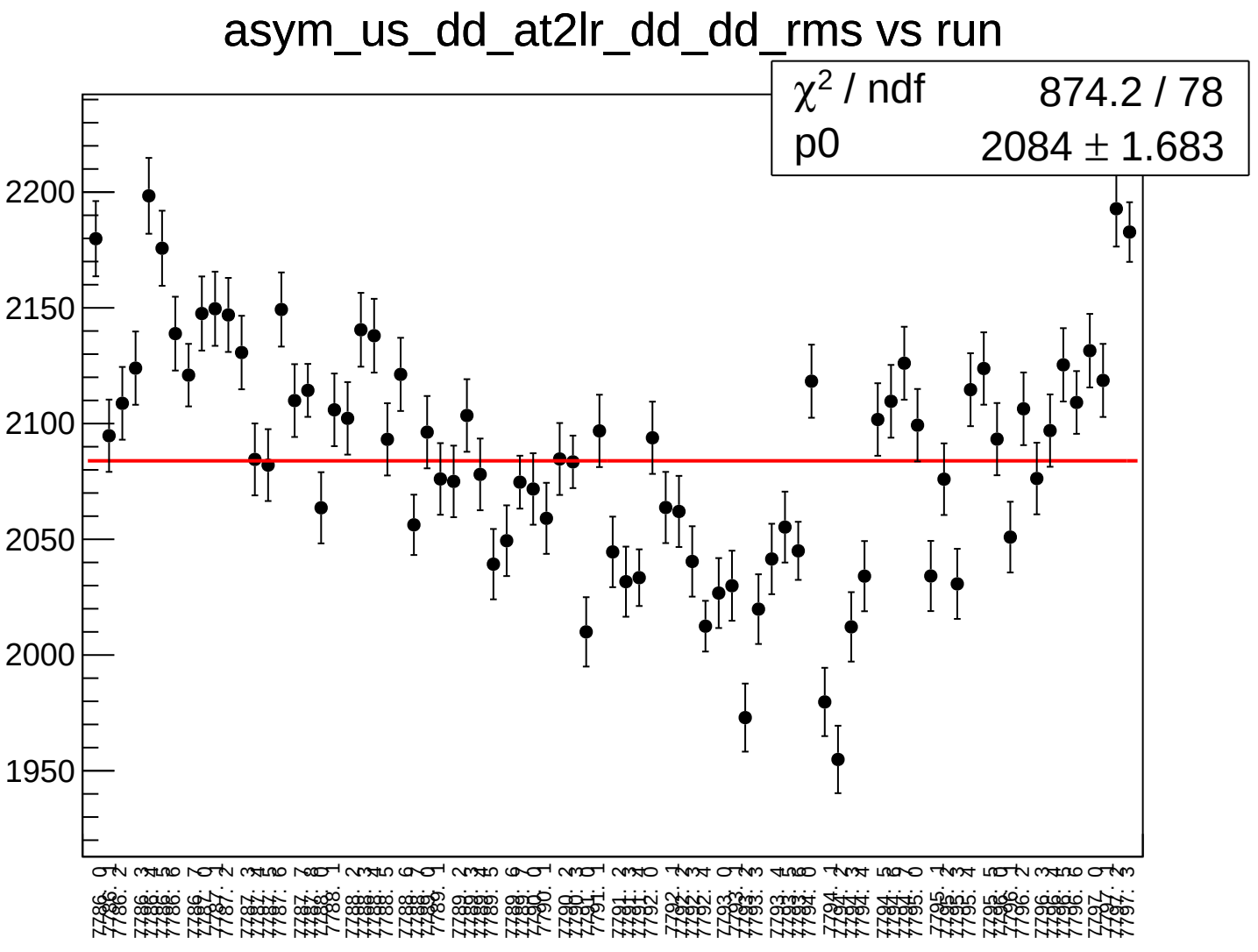

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.33 / 78
p0 1355 ± 1493
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −151.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

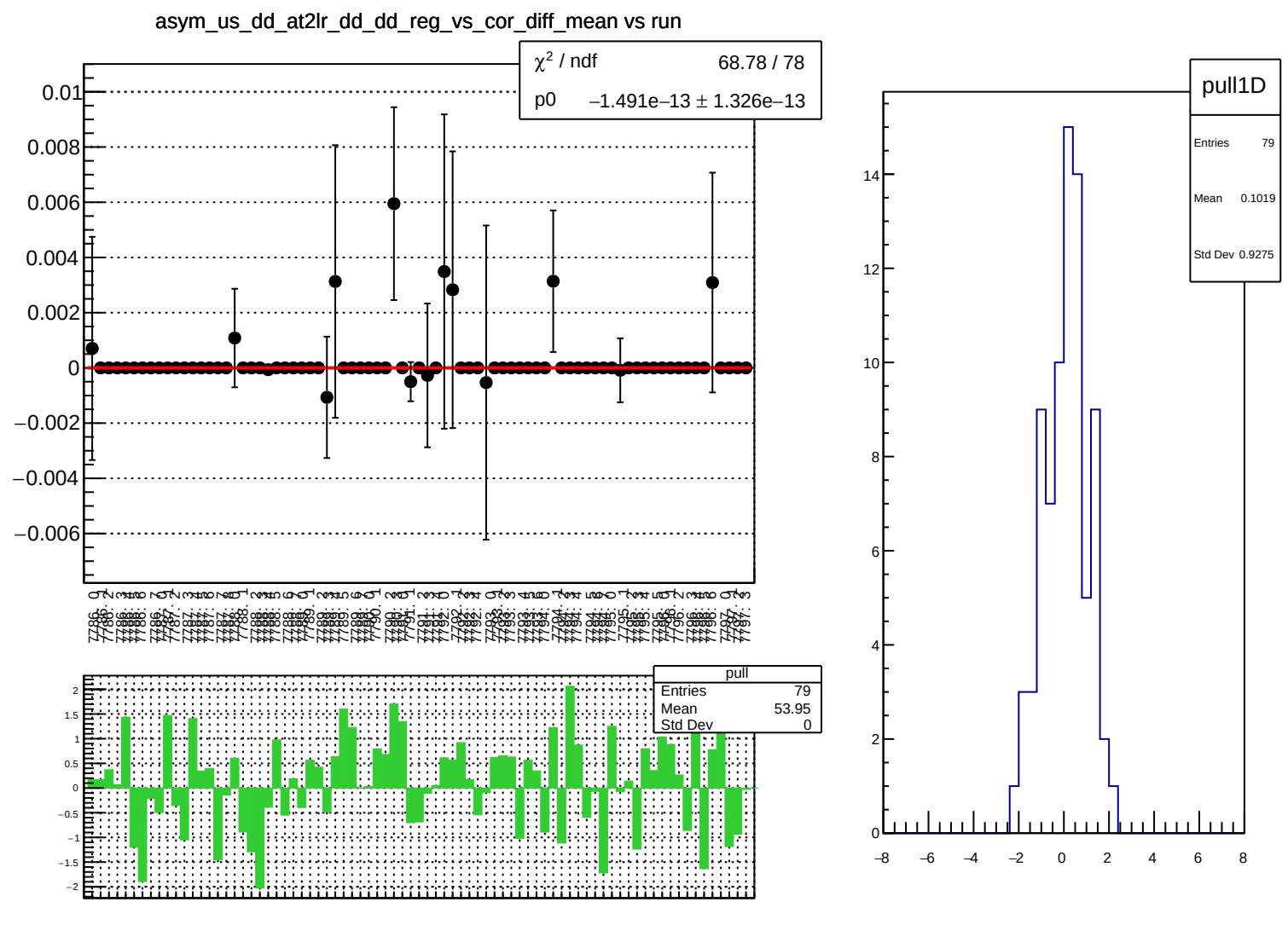

pull1D
Entries 79
Mean −0.01749
Std Dev 0.9828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

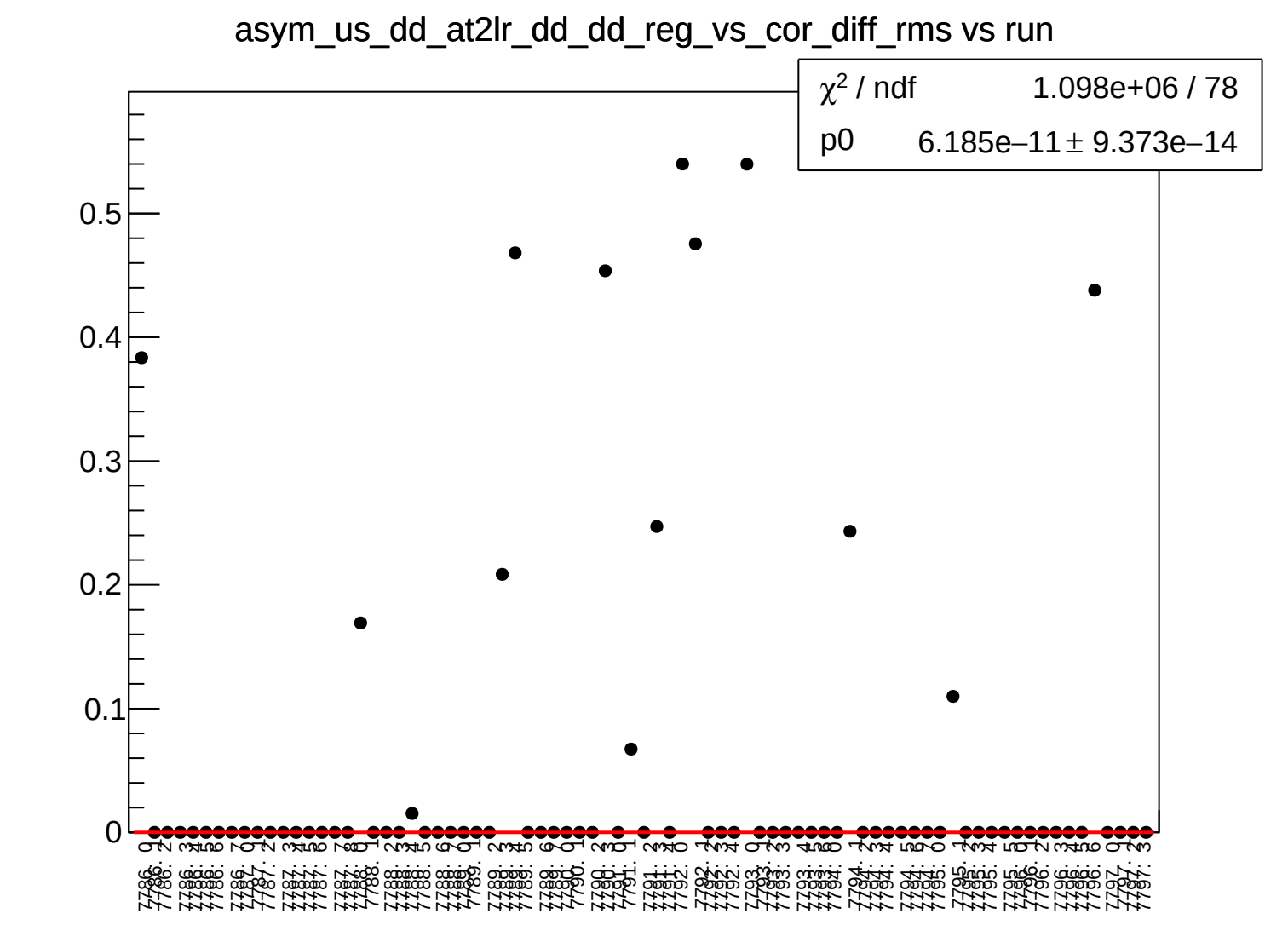

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3678 / 78
p0 1306 ± 1.056
1500
1450
1400
1350
1300
1250
1200
1150

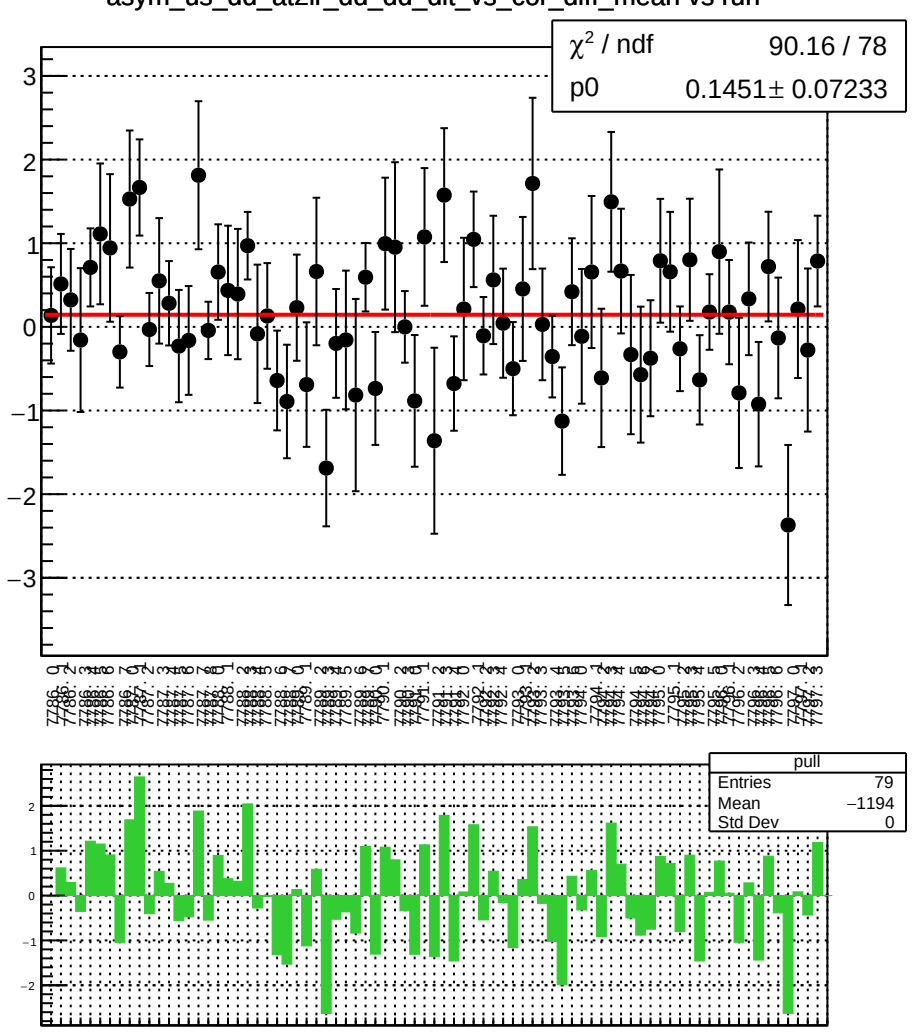

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 63.44 / 78
p0 −2819 ± 2380
pull
Entries 79
Mean −95.66
Std Dev 0

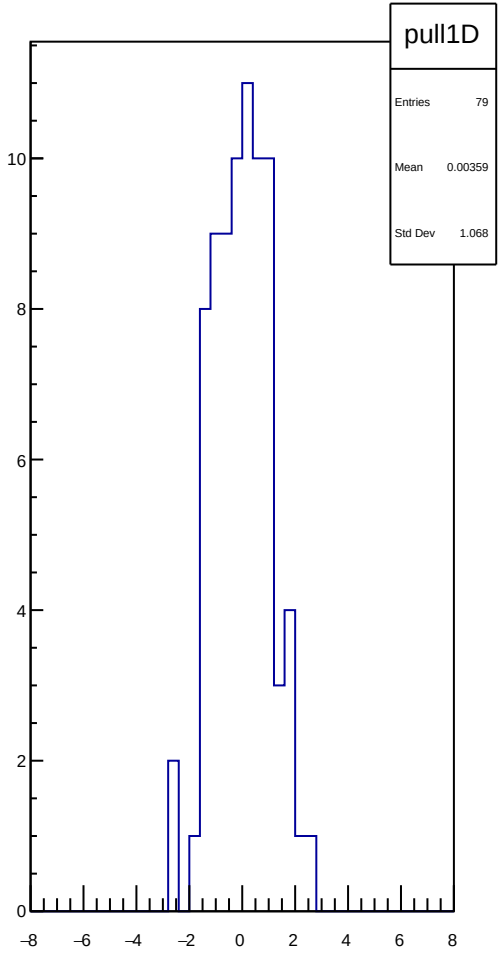

pull1D
Entries 79
Mean 0.00738
Std Dev 0.8961

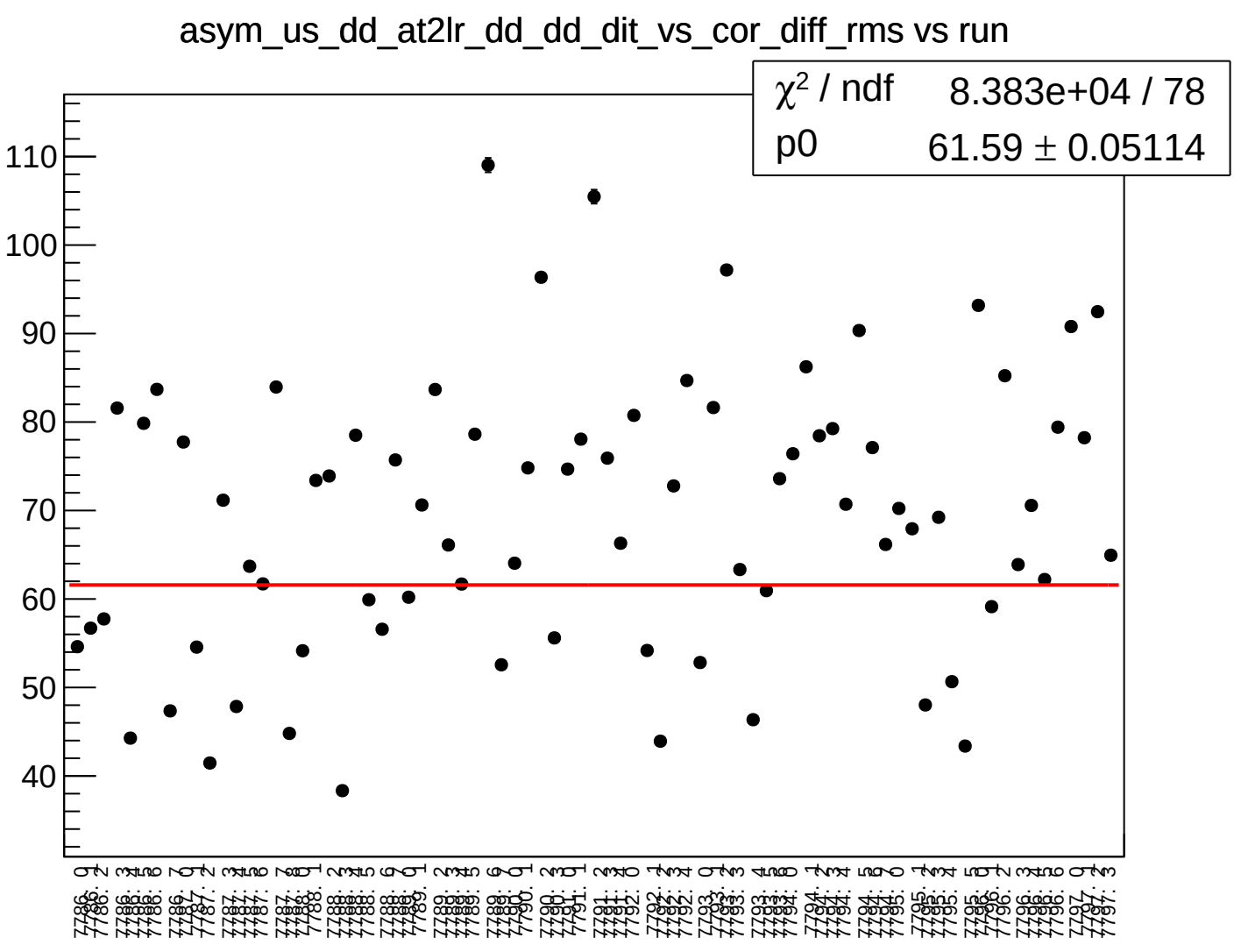

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 874.2 / 78
p0 2084 ± 1.683
2200
2150
2100
2050
2000
1950

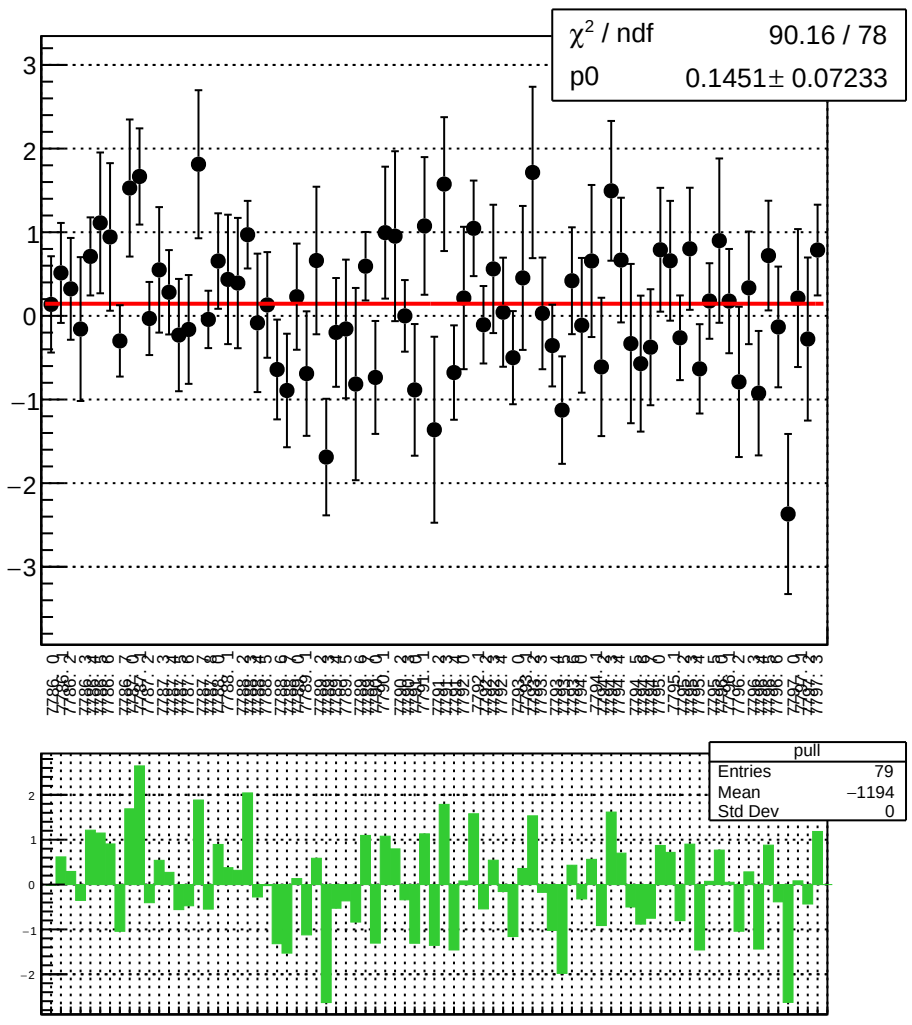

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.78 / 78
p0 −1.491e−13 ± 1.326e−13
pull
Entries 79
Mean 53.95
Std Dev 0
pull1D
Entries 79
Mean 0.1019
Std Dev 0.9275

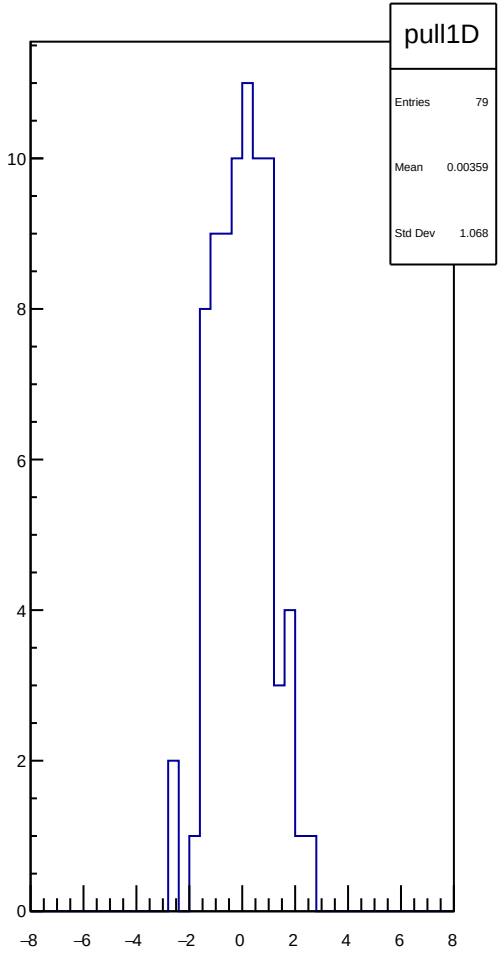

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.098e+06 / 78
p0 6.185e−11 ± 9.373e−14
0.5
0.4
0.3
0.2
0.1
0

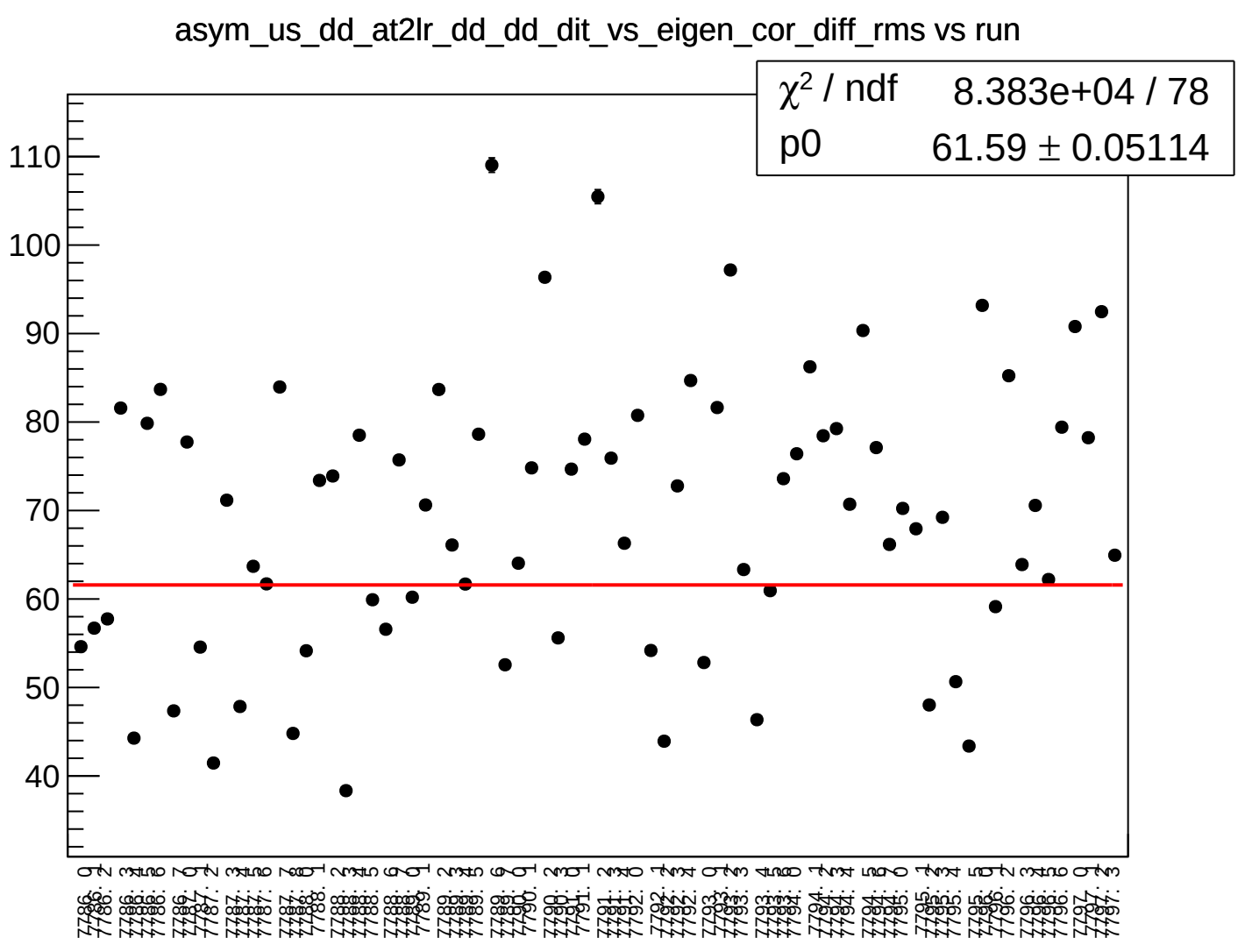

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.16 / 78
p0 0.1451± 0.07233
pull
Entries 79
Mean −1194
Std Dev 0

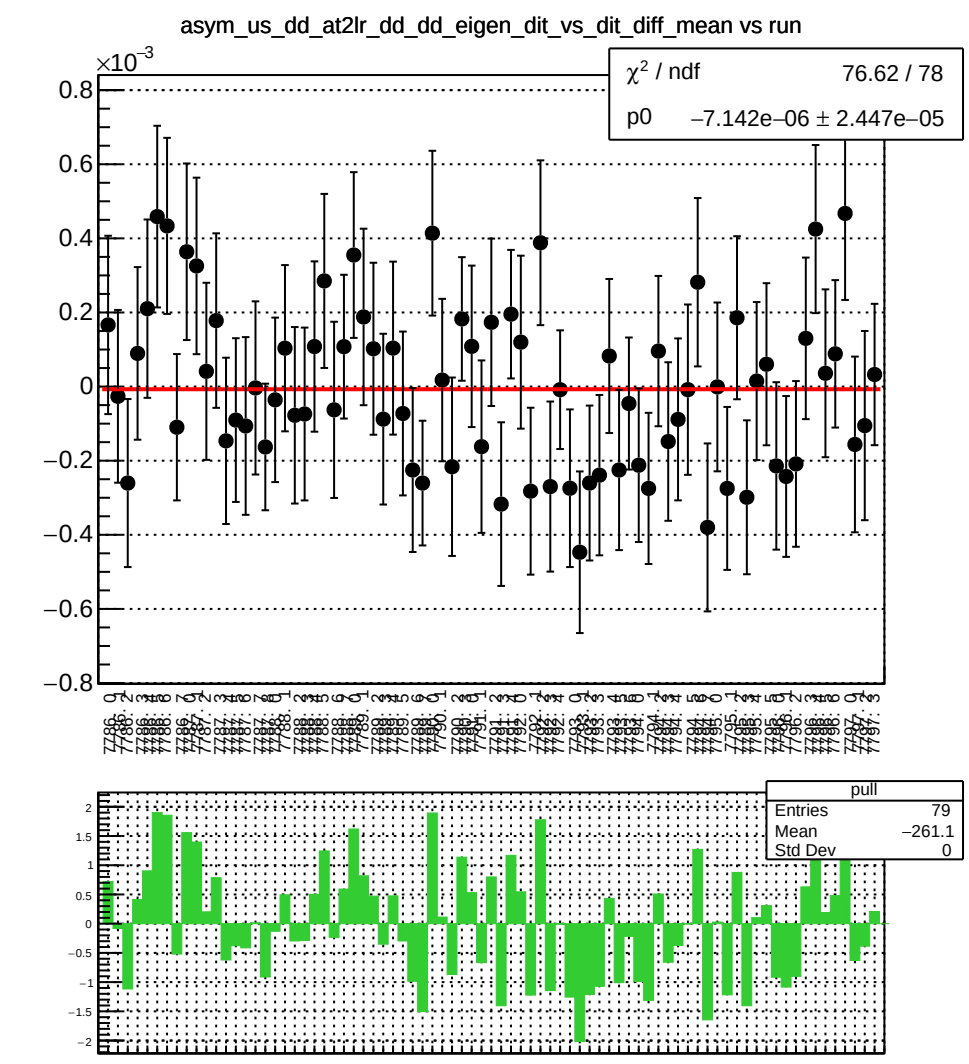

pull1D
Entries 79
Mean 0.00359
Std Dev 1.068

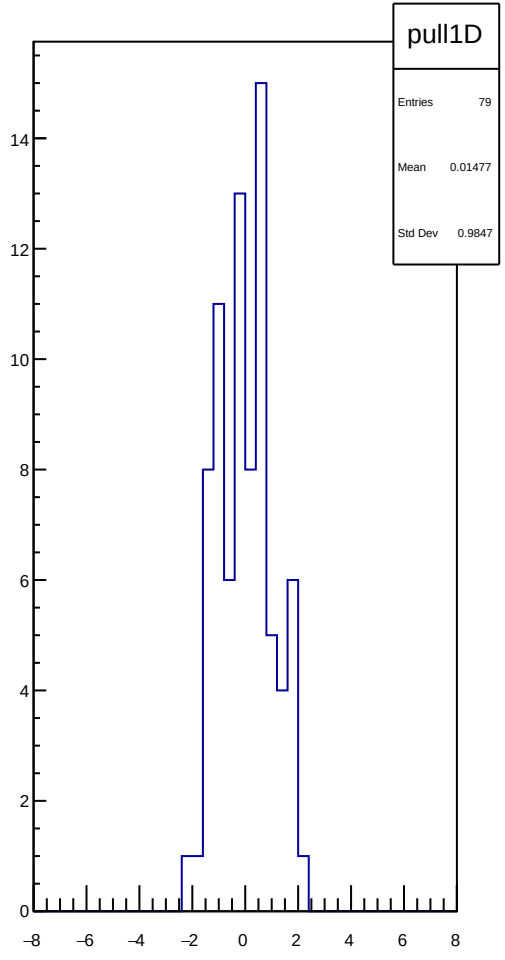

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.383e+04 / 78
p0 61.59 ± 0.05114
110
100
90
80
70
60
50
40

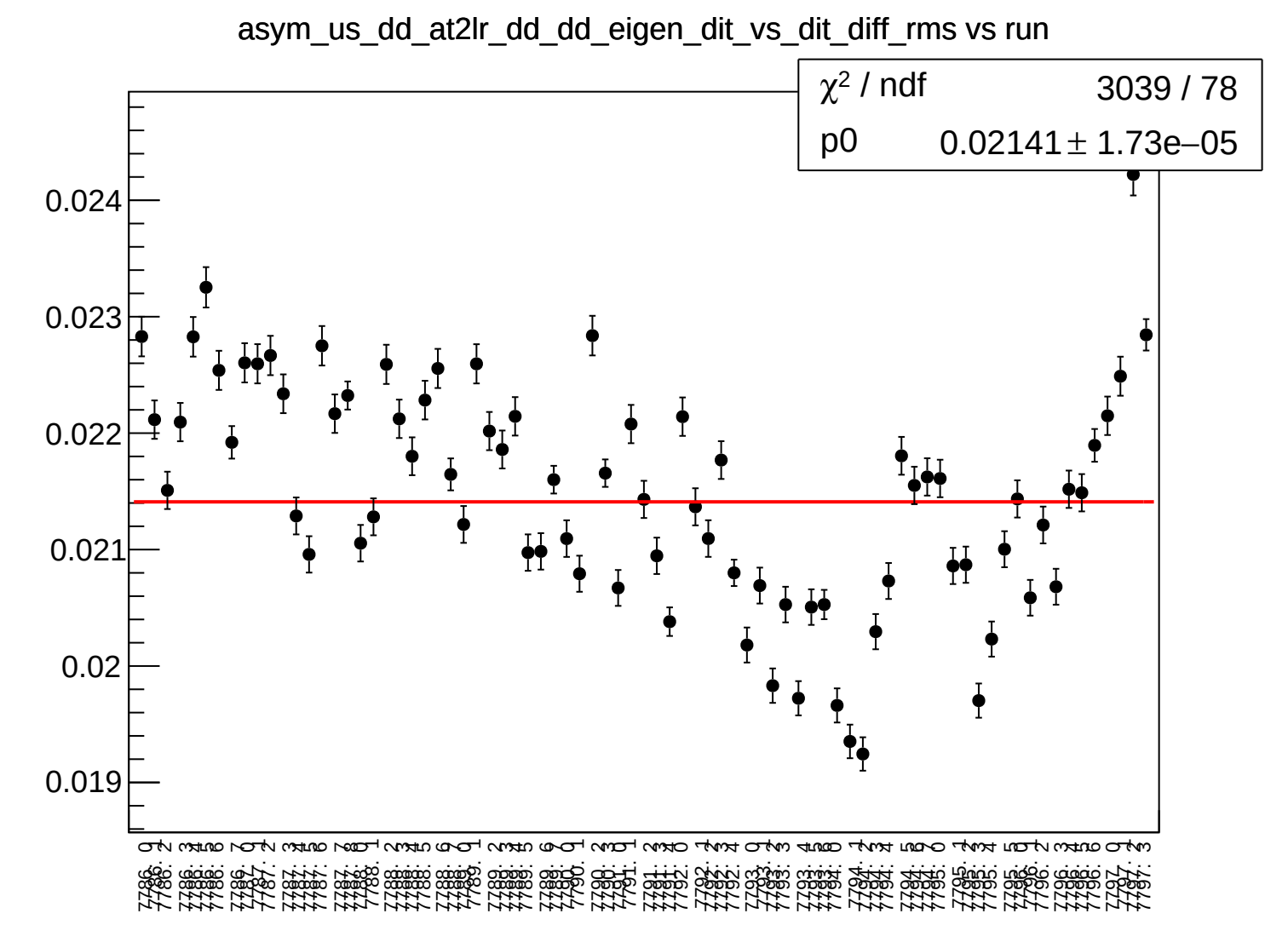

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.16 / 78
p0 0.1451± 0.07233
pull
Entries 79
Mean −1194
Std Dev 0

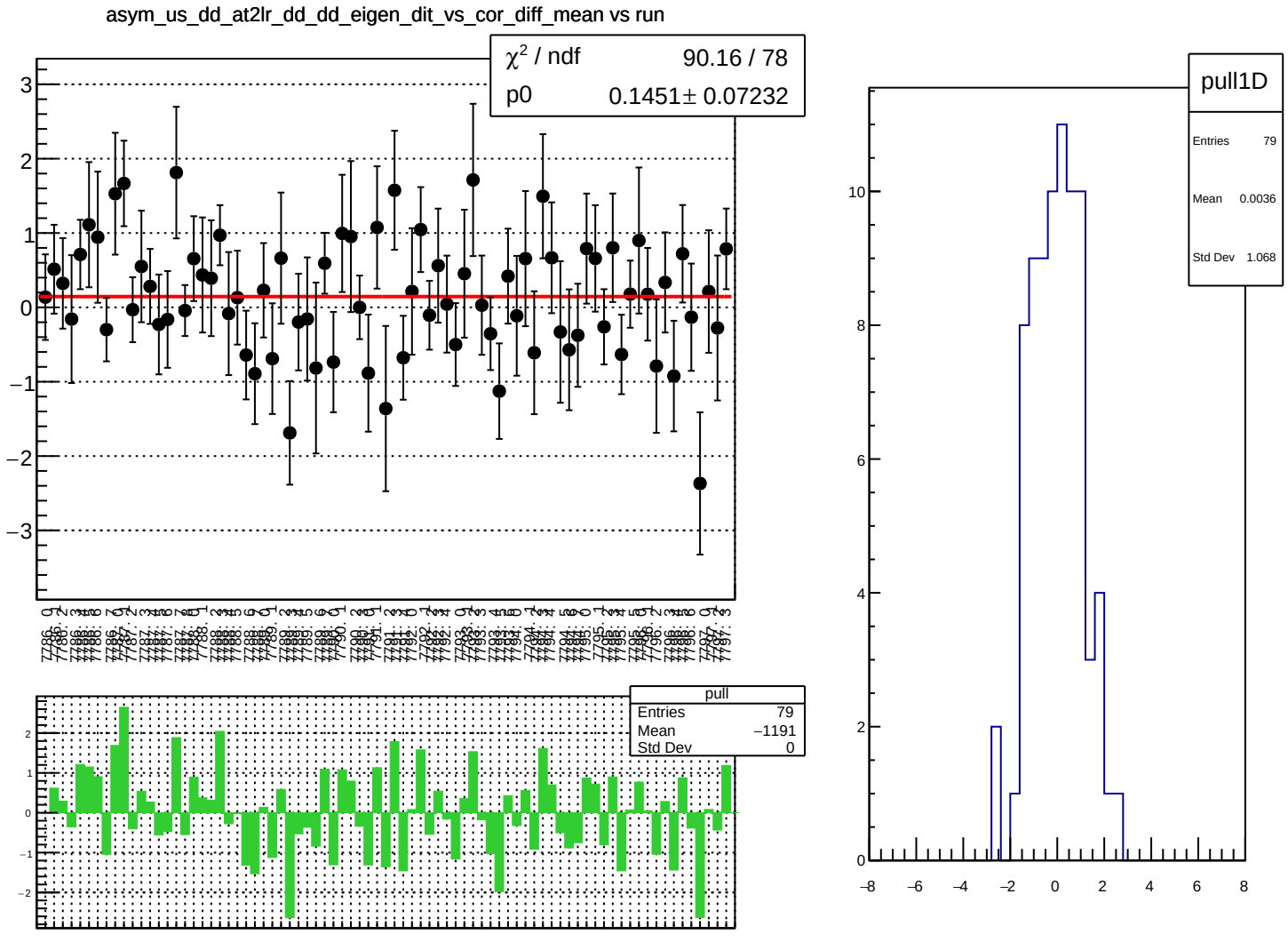

pull1D
Entries 79
Mean 0.00359
Std Dev 1.068

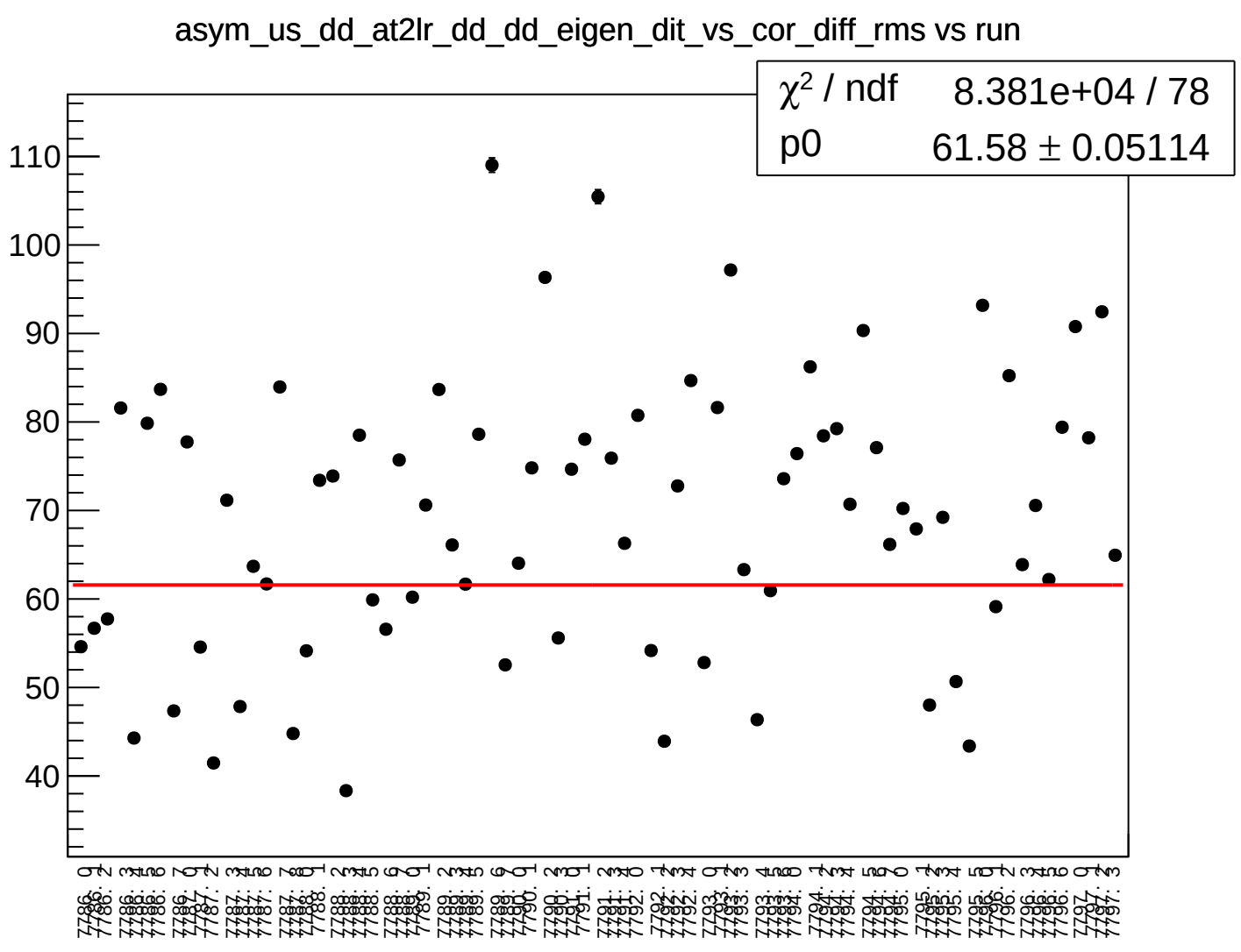

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.383e+04 / 78
p0 61.59 ± 0.05114
110
100
90
80
70
60
50
40

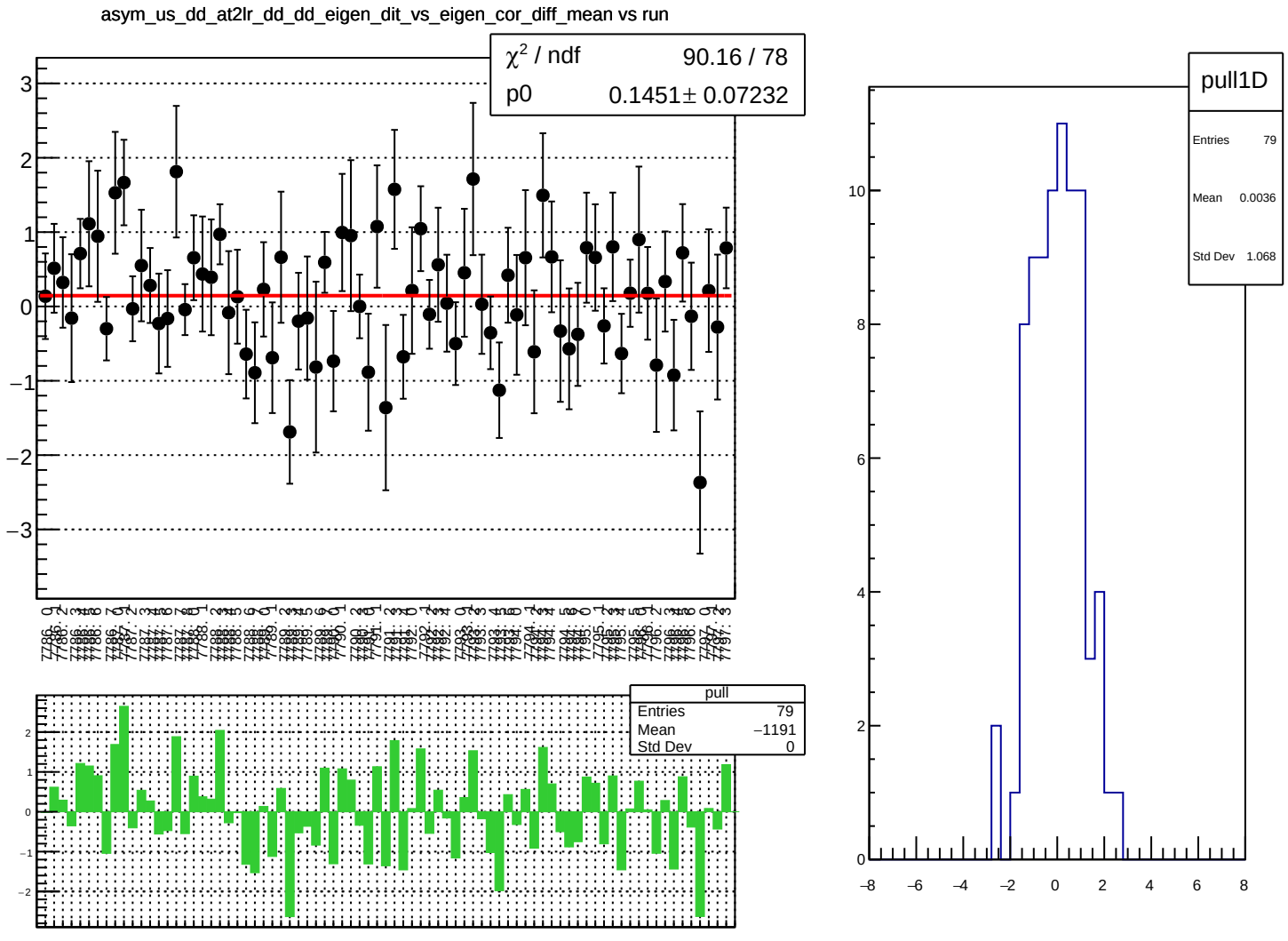

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.62 / 78
p0 −7.142e−06 ± 2.447e−05
pull
Entries 79
Mean −261.1
Std Dev 0

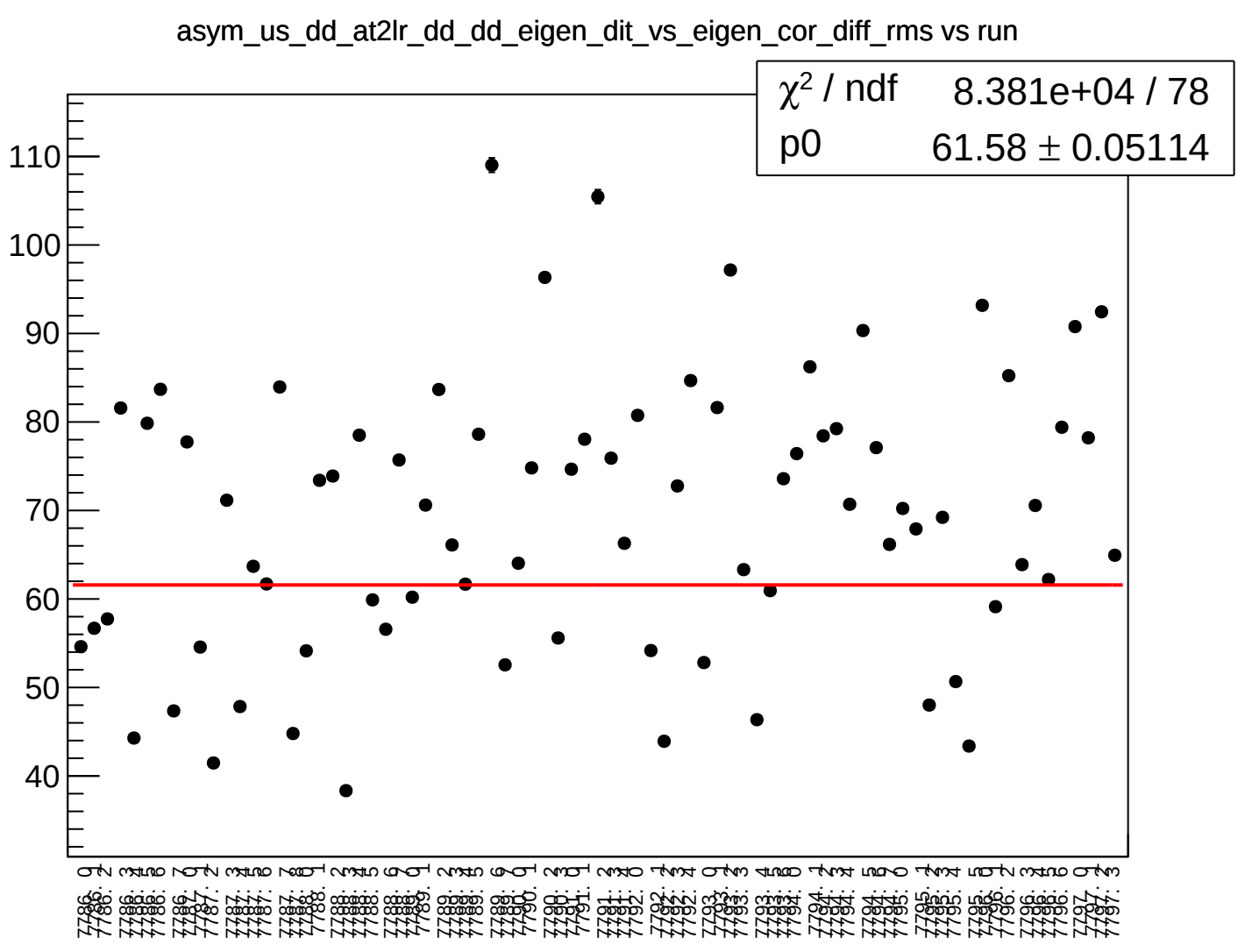

pull1D
Entries 79
Mean 0.01477
Std Dev 0.9847

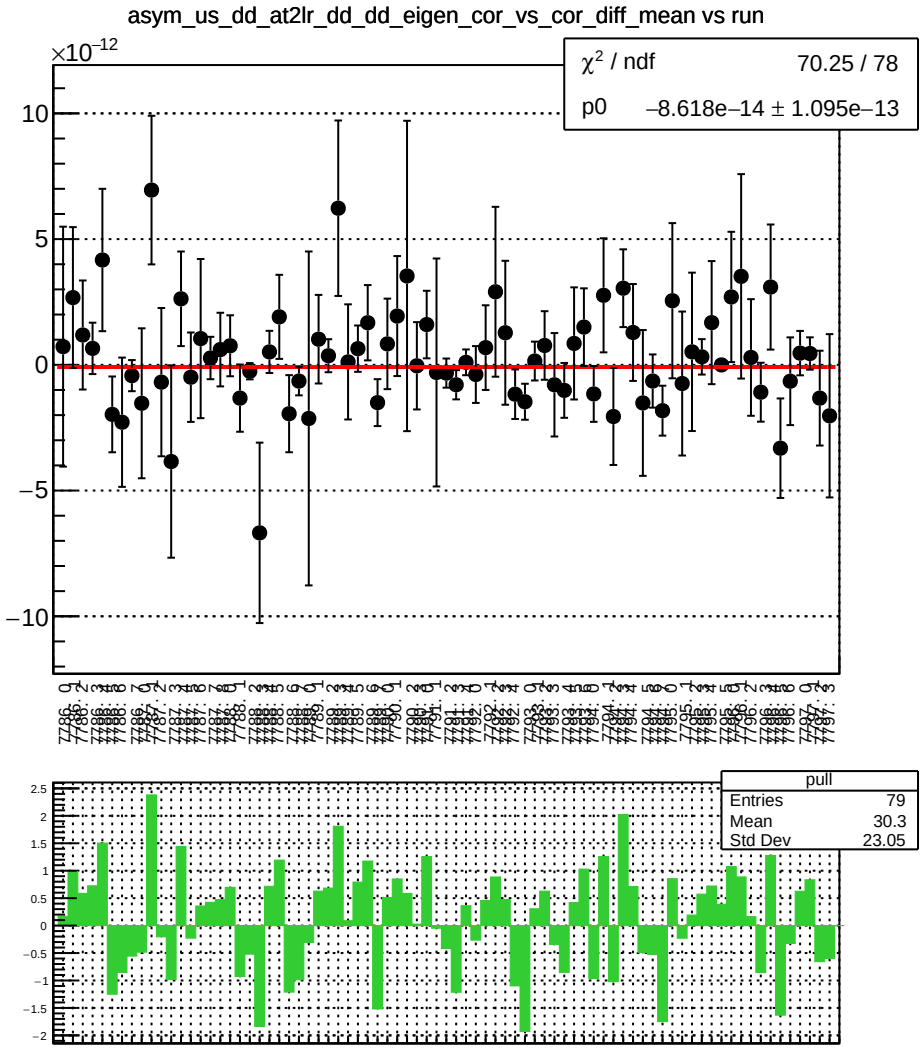

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3039 / 78
p0 0.02141 ± 1.73e−05
0.024
0.023
0.022
0.021
0.02
0.019

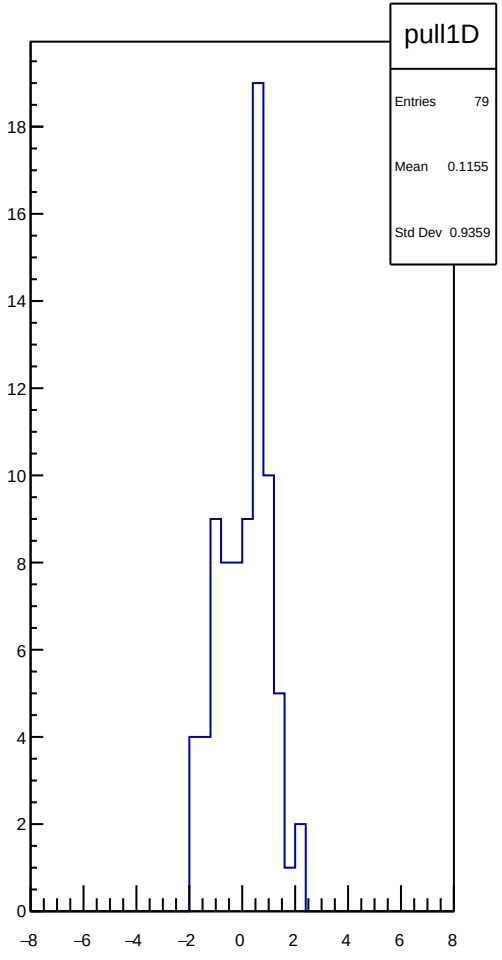

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.16 / 78
p0 0.1451± 0.07232
pull
Entries 79
Mean −1191
Std Dev 0
pull1D
Entries 79
Mean 0.0036
Std Dev 1.068

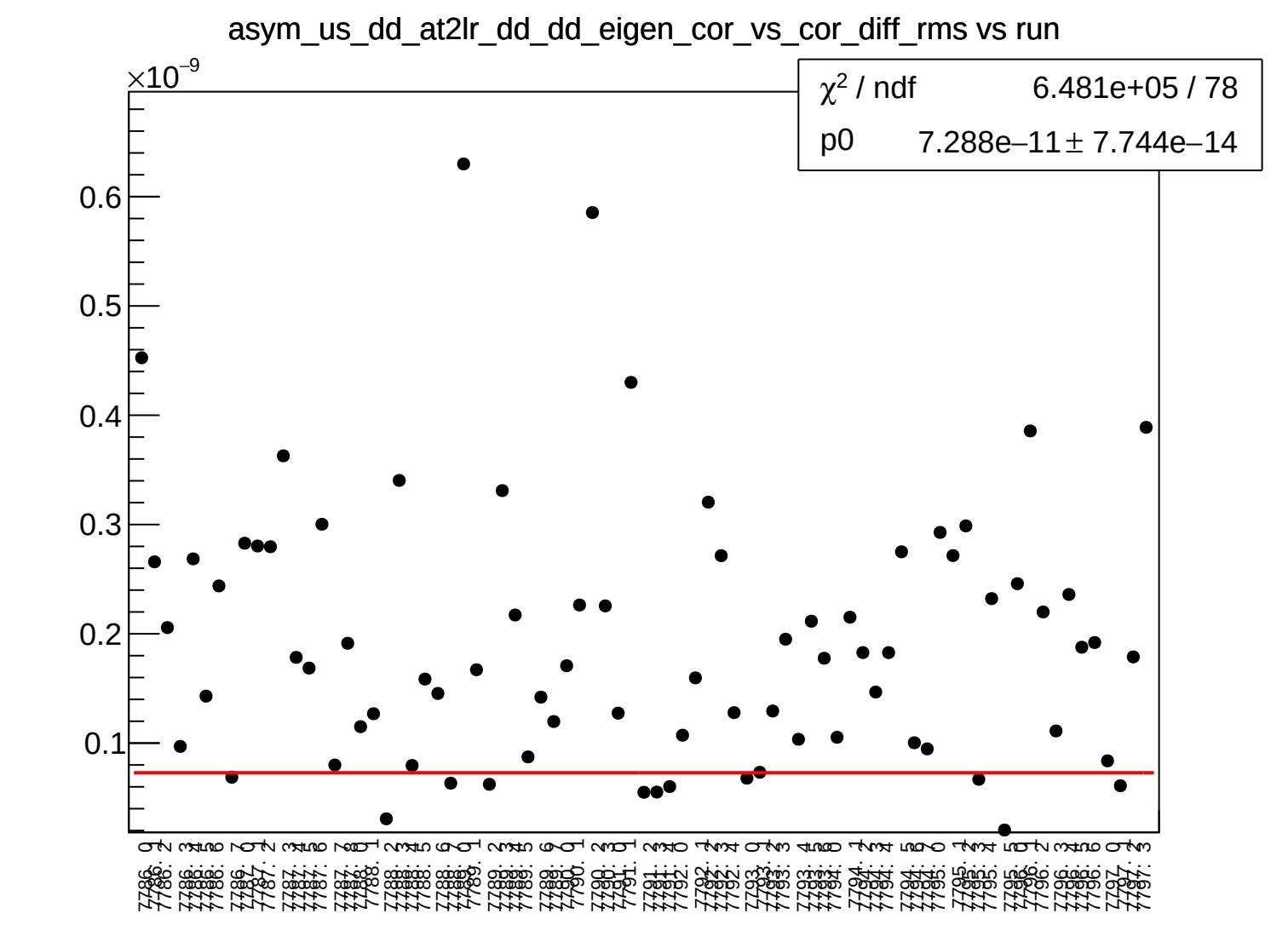

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.381e+04 / 78
p0 61.58 ± 0.05114
110
100
90
80
70
60
50
40

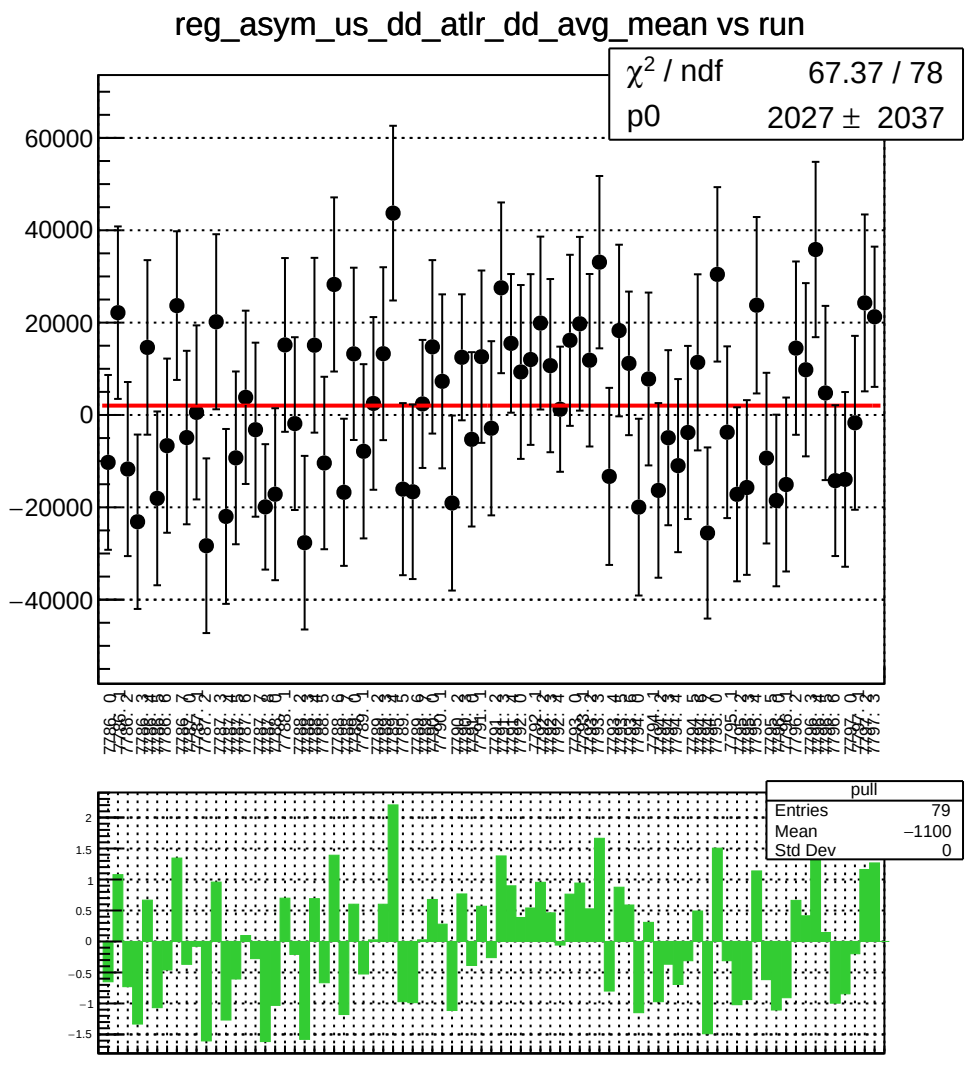

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.16 / 78
p0 0.1451± 0.07232
pull
Entries 79
Mean −1191
Std Dev 0
pull1D
Entries 79
Mean 0.0036
Std Dev 1.068

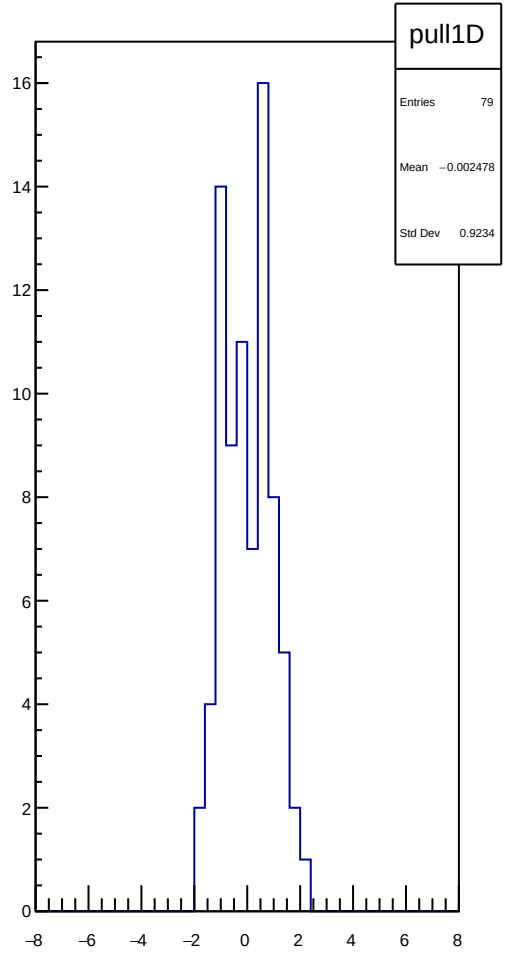

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.381e+04 / 78
p0 61.58 ± 0.05114
110
100
90
80
70
60
50
40

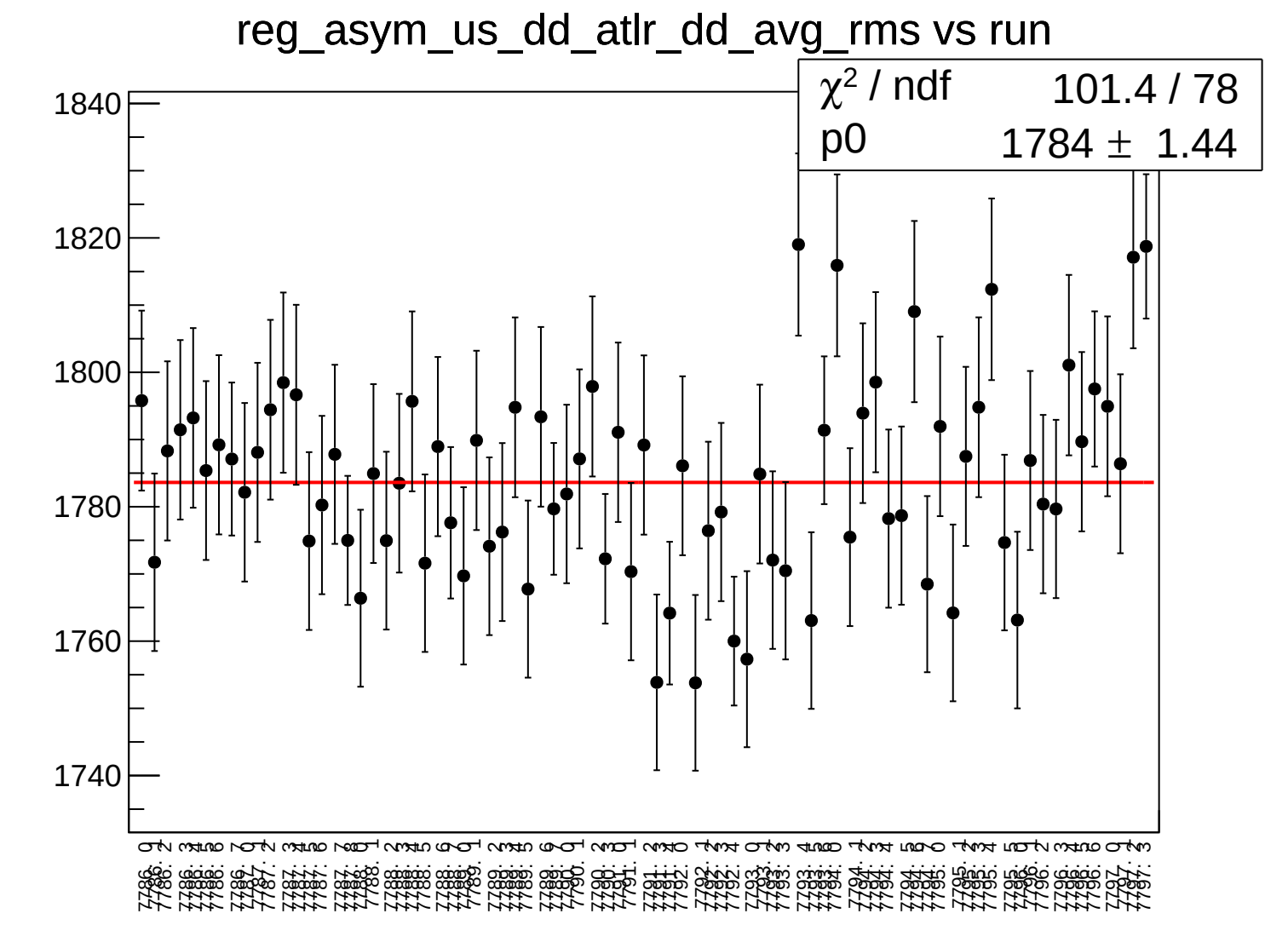

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.25 / 78
p0 −8.618e−14 ± 1.095e−13
pull
Entries 79
Mean 30.3
Std Dev 23.05

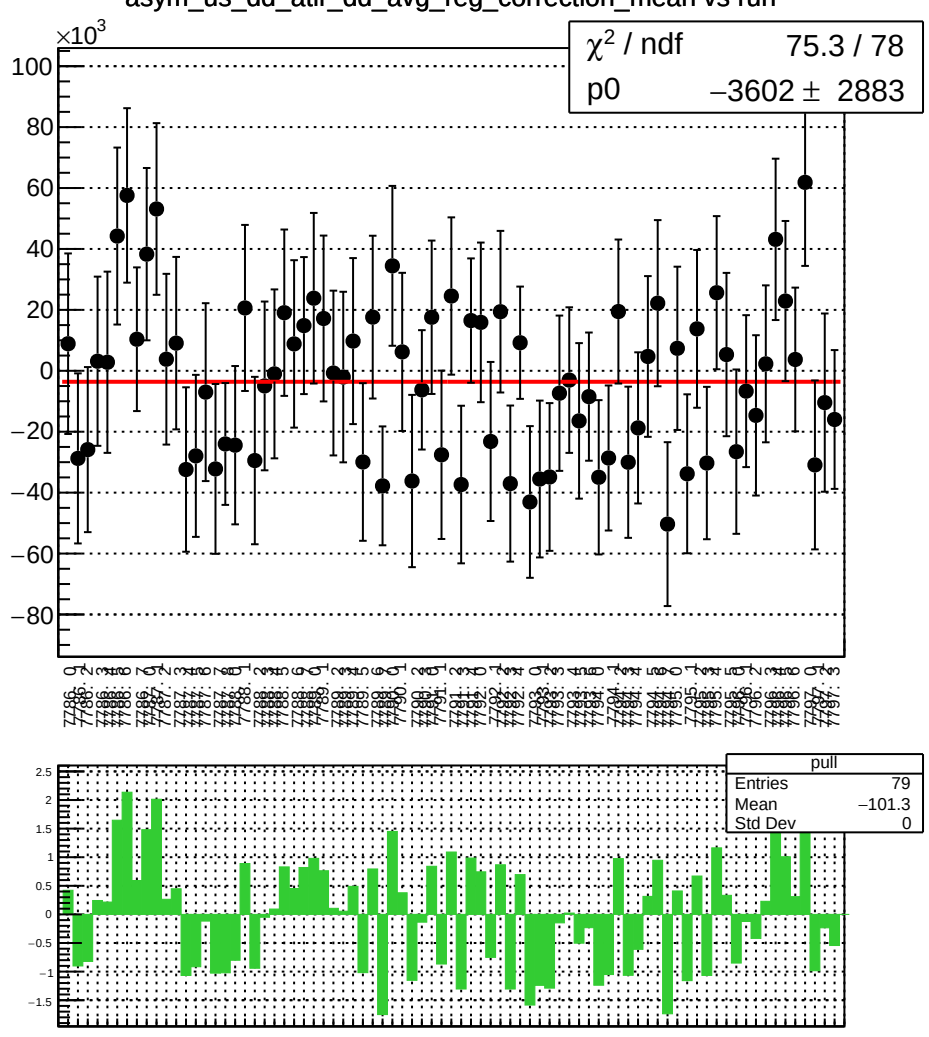

pull1D
Entries 79
Mean 0.1155
Std Dev 0.9359

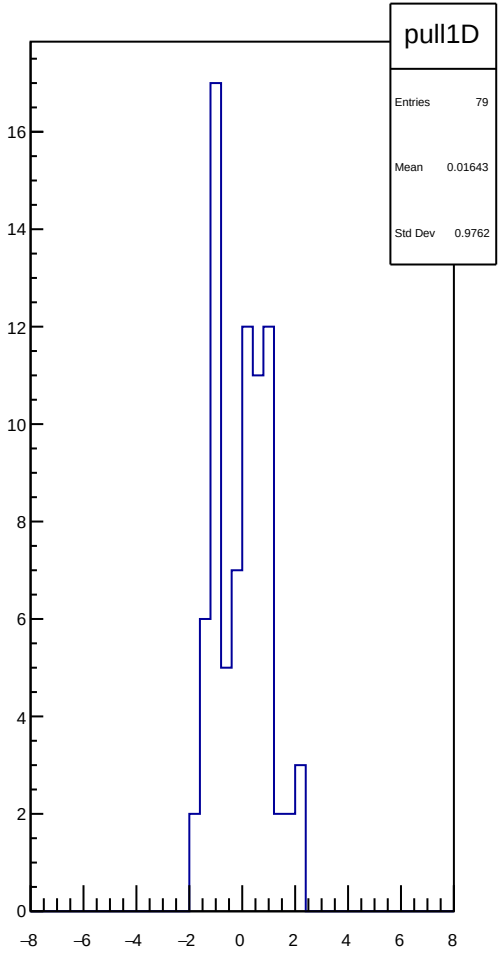

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.481e+05 / 78
p0 7.288e−11 ± 7.744e−14
0.6
0.5
0.4
0.3
0.2
0.1

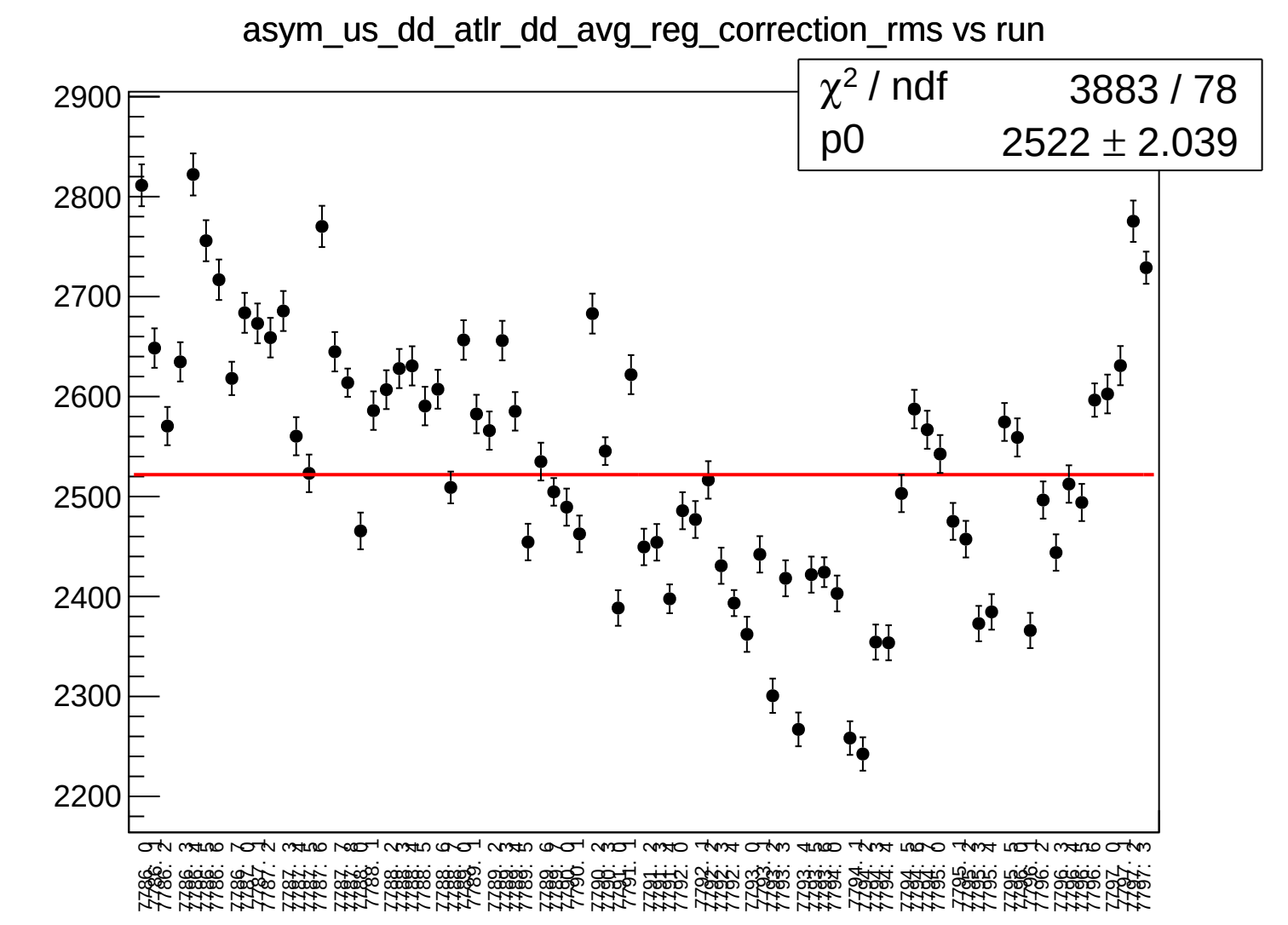

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 67.37 / 78
p0 2027 ± 2037
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −1100
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

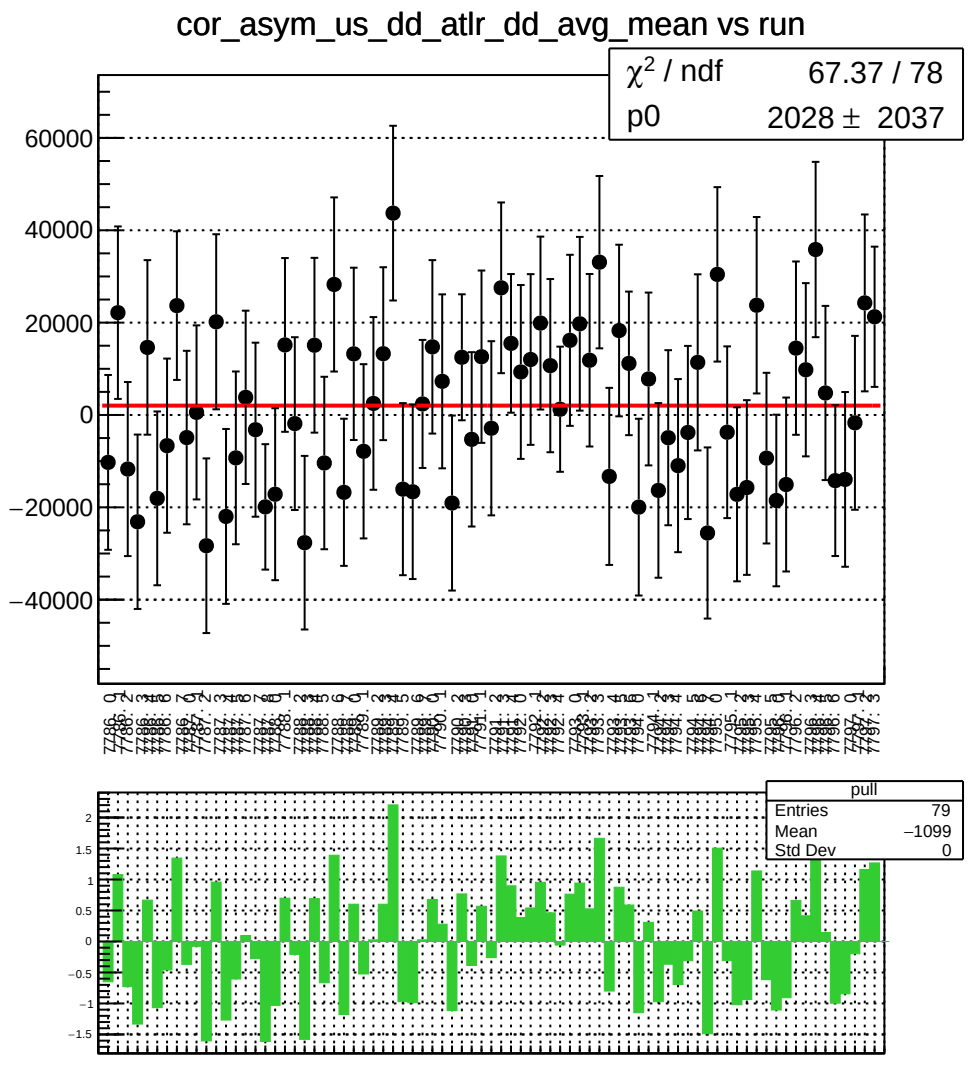

pull1D
Entries 79
Mean −0.002478
Std Dev 0.9234
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

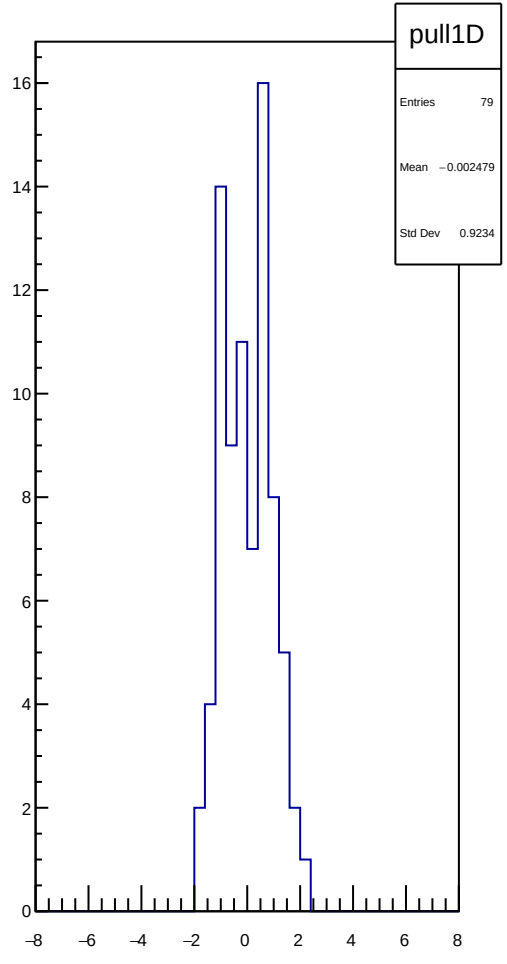

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 101.4 / 78
p0 1784 ± 1.44
1840
1820
1800
1780
1760
1740

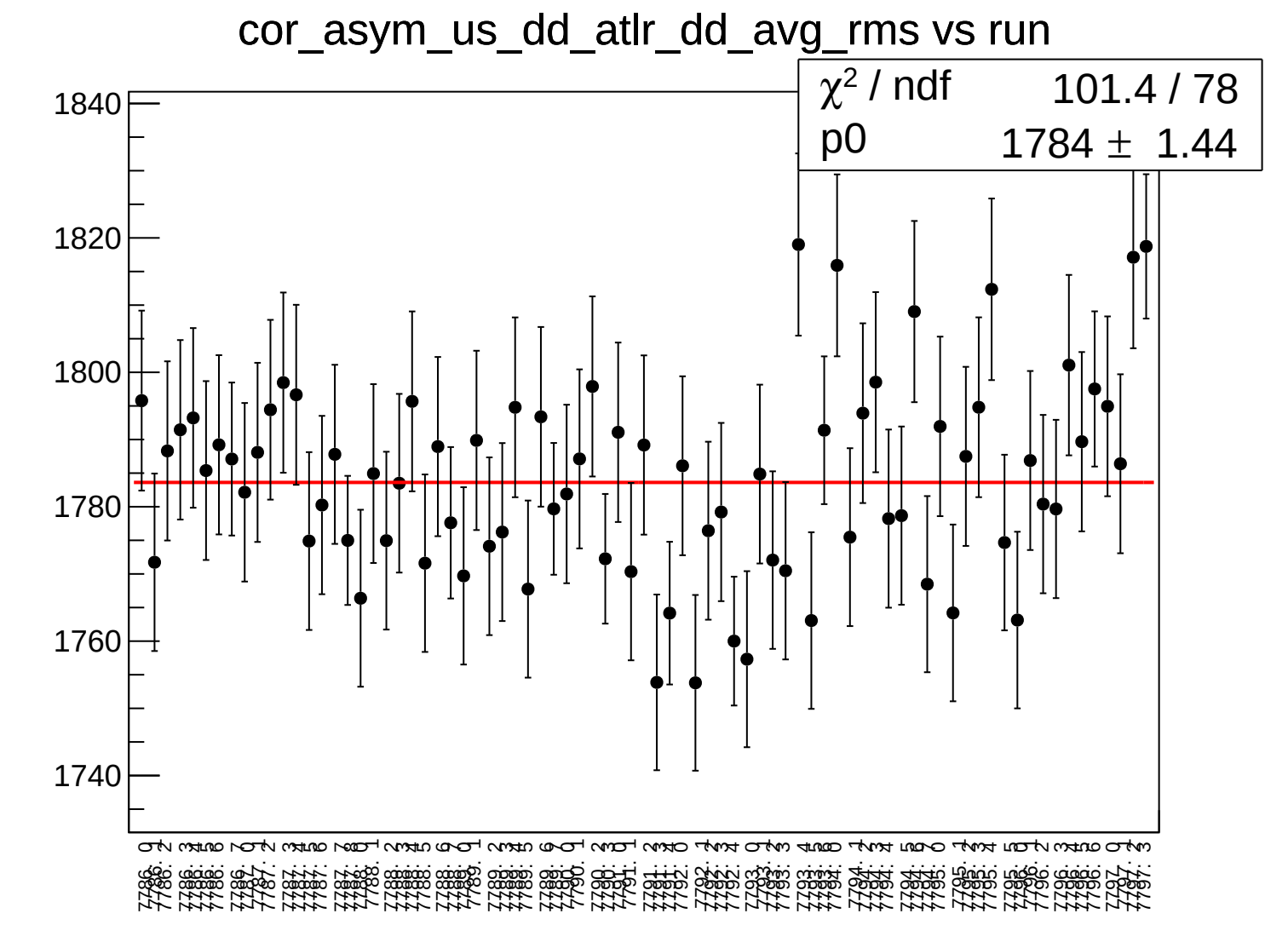

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 75.3 / 78
p0 −3602 ± 2883
×10³
pull
Entries 79
Mean −101.3
Std Dev 0

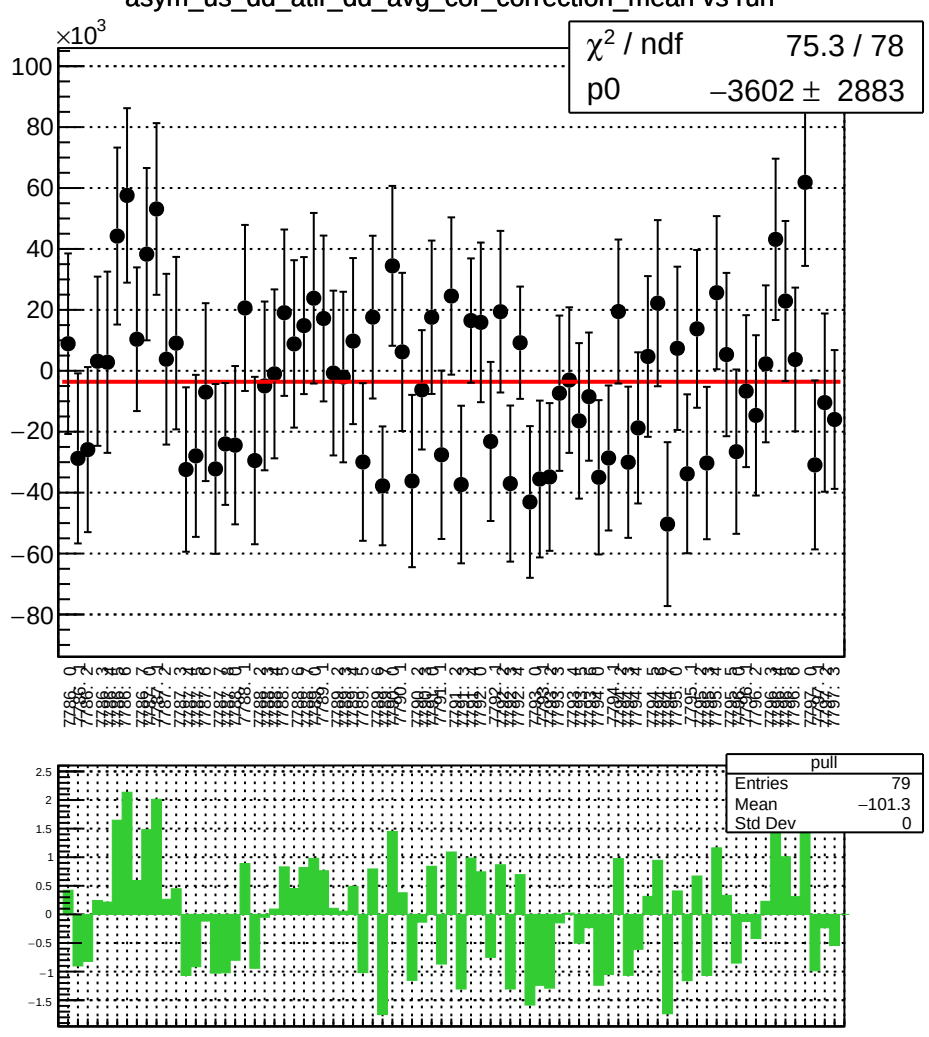

pull1D
Entries 79
Mean 0.01643
Std Dev 0.9762

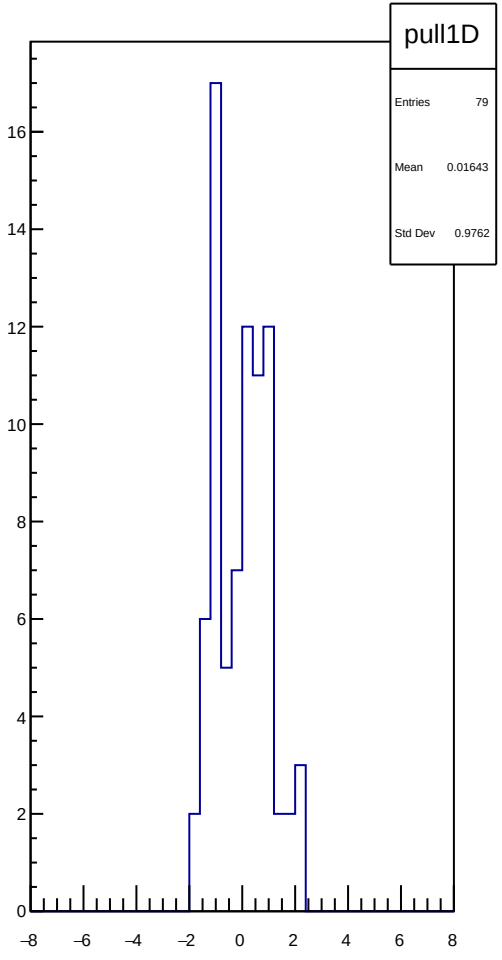

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 3883 / 78
p0 2522 ± 2.039
2900
2800
2700
2600
2500
2400
2300
2200

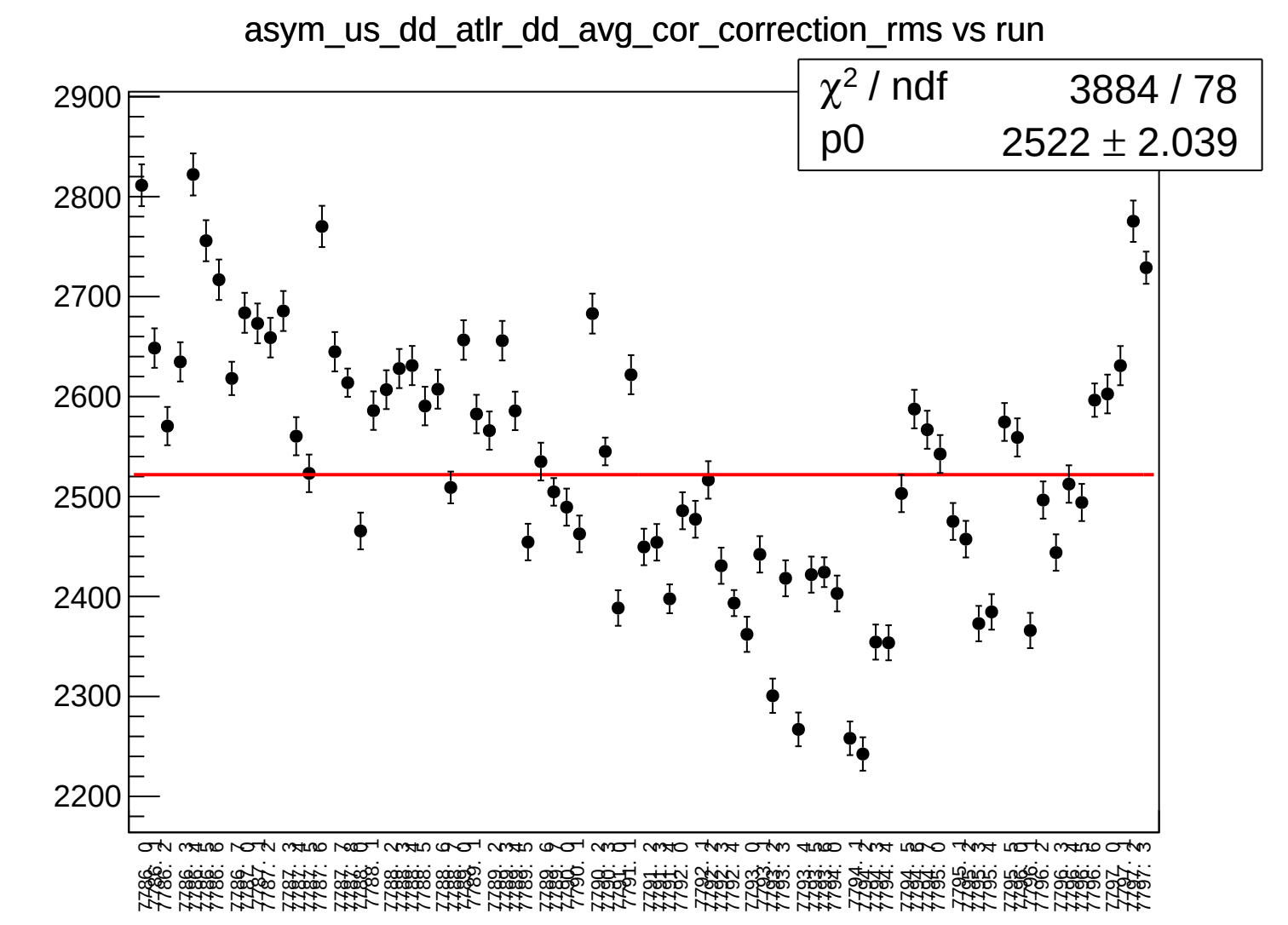

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 67.37 / 78
p0 2028 ± 2037
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −1099
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

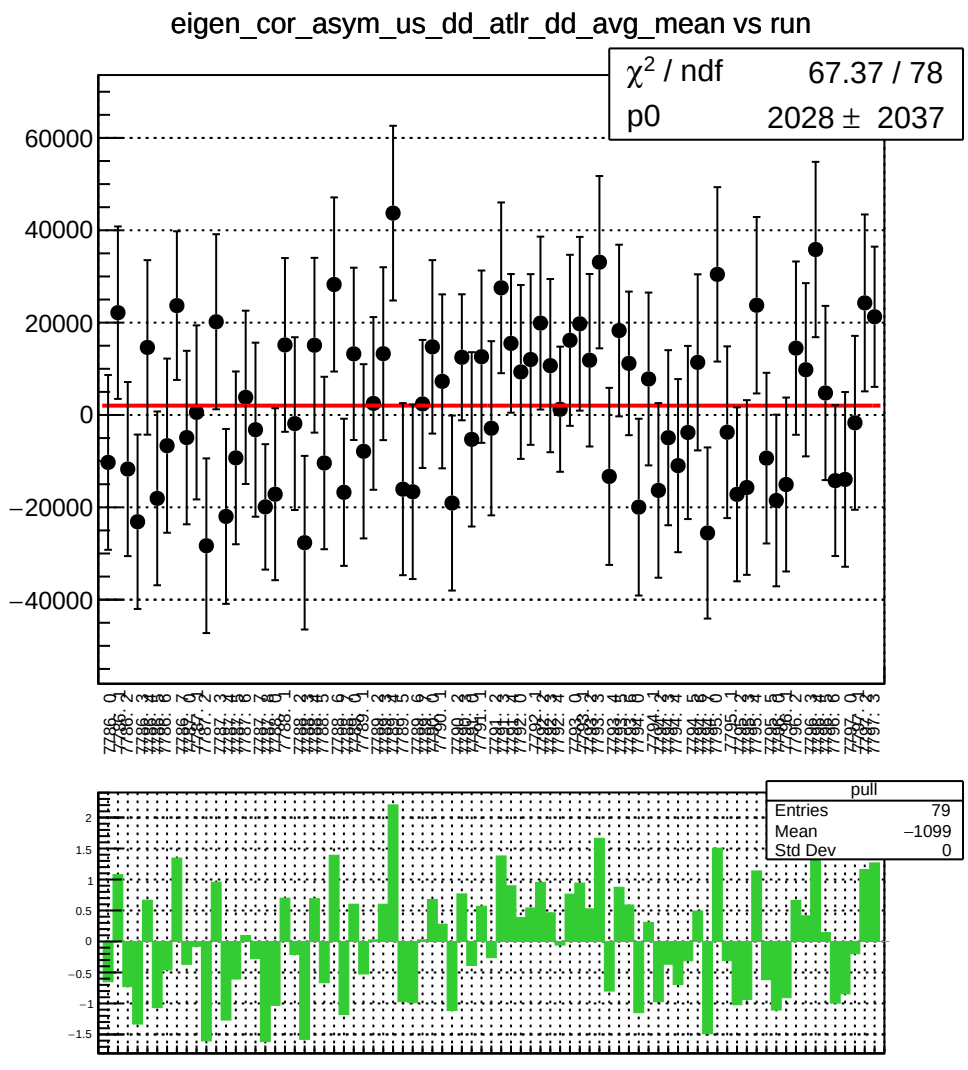

pull1D
Entries 79
Mean −0.002479
Std Dev 0.9234
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

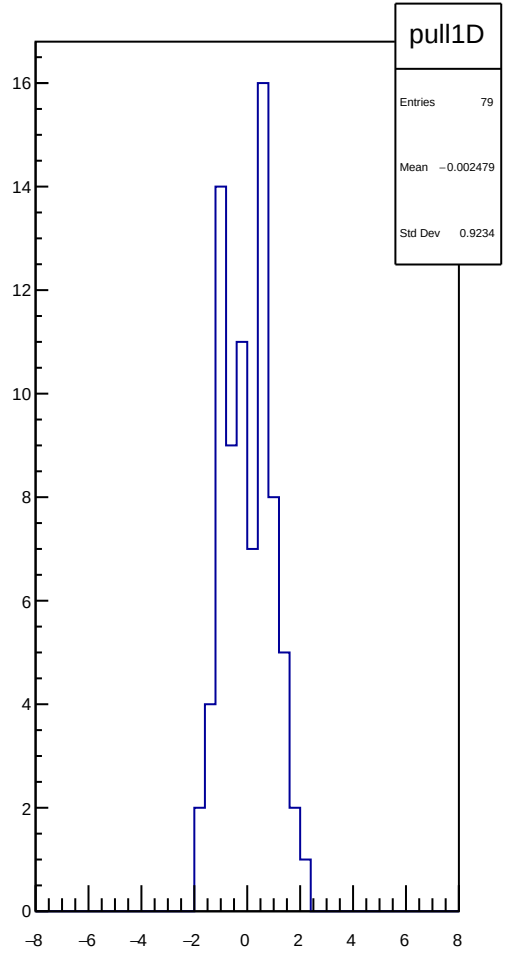

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 101.4 / 78
p0 1784 ± 1.44
1840
1820
1800
1780
1760
1740

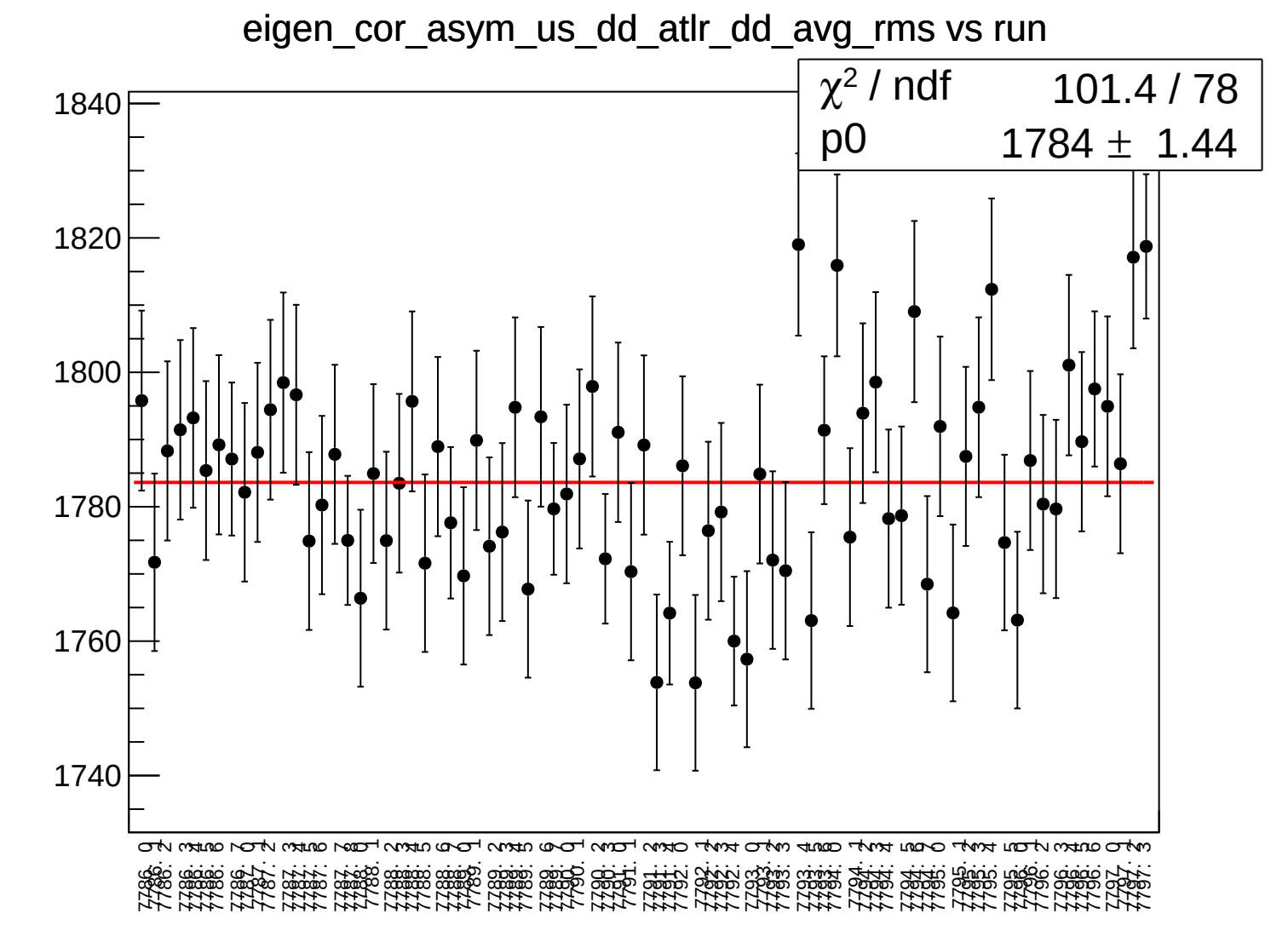

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 75.3 / 78
p0 −3602 ± 2883
pull
Entries 79
Mean −101.3
Std Dev 0

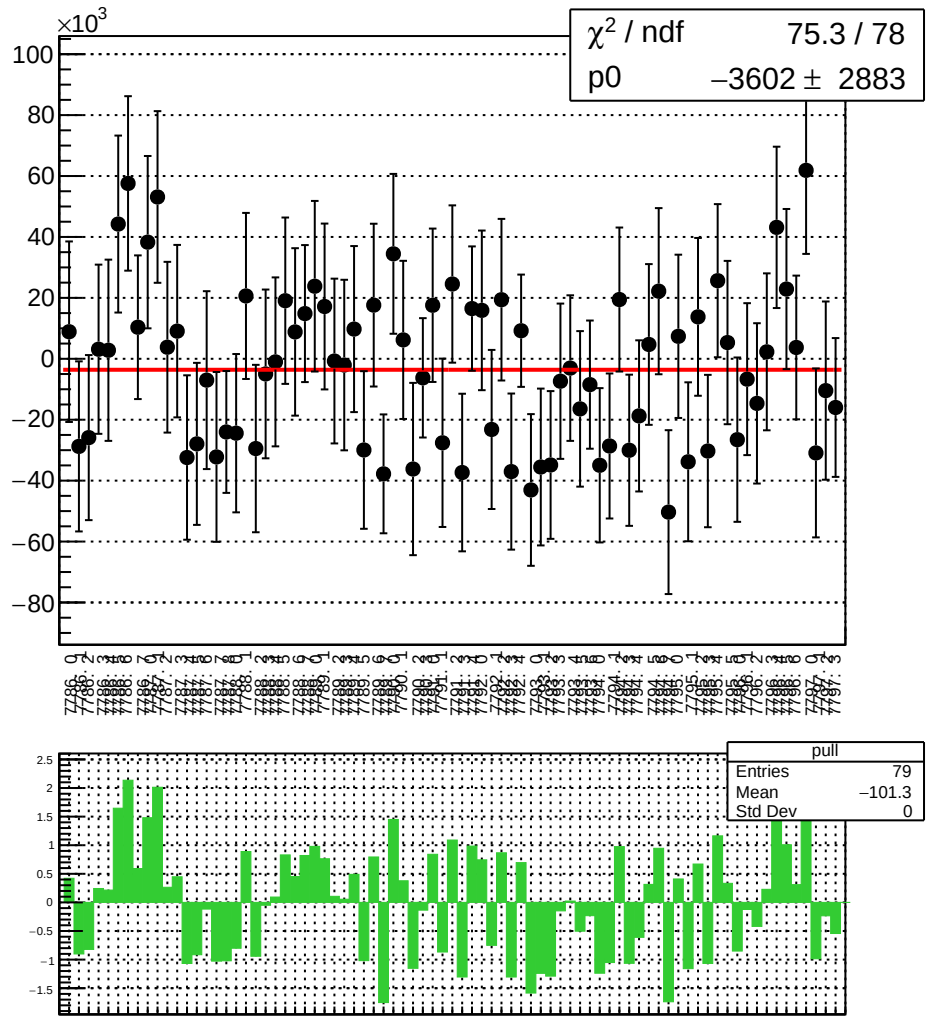

pull1D
Entries 79
Mean 0.01643
Std Dev 0.9762

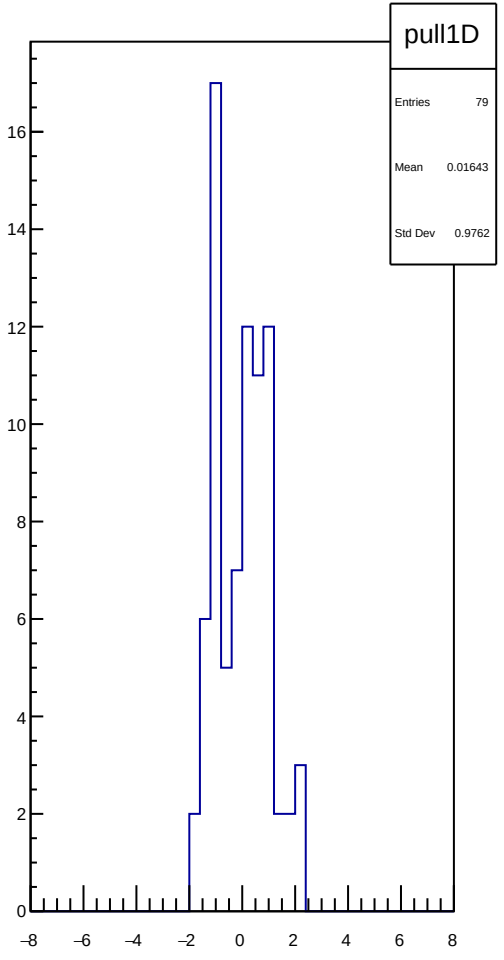

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 3884 / 78
p0 2522 ± 2.039
2900
2800
2700
2600
2500
2400
2300
2200

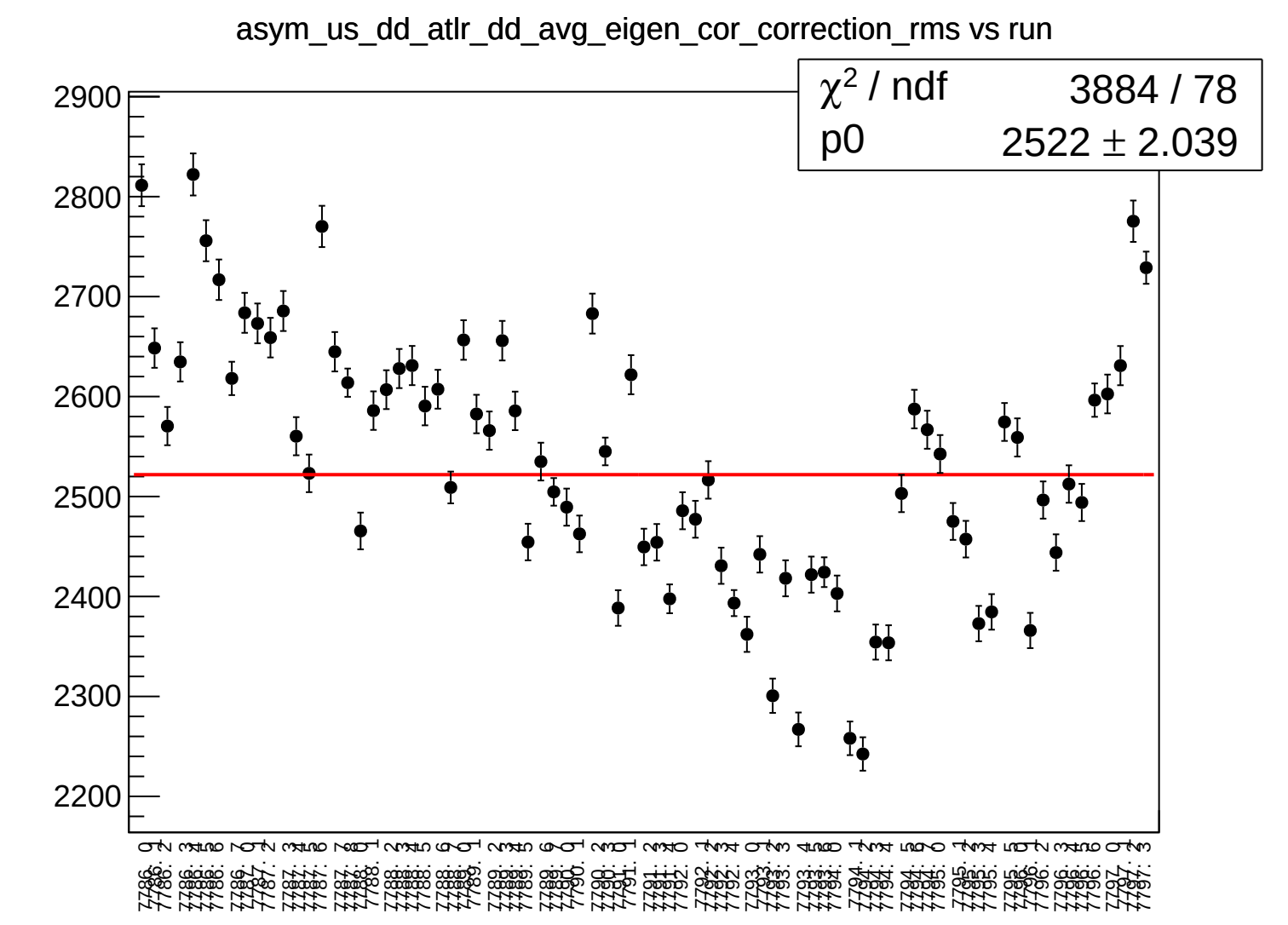

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 67.37 / 78
p0 2028 ± 2037
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −1099
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

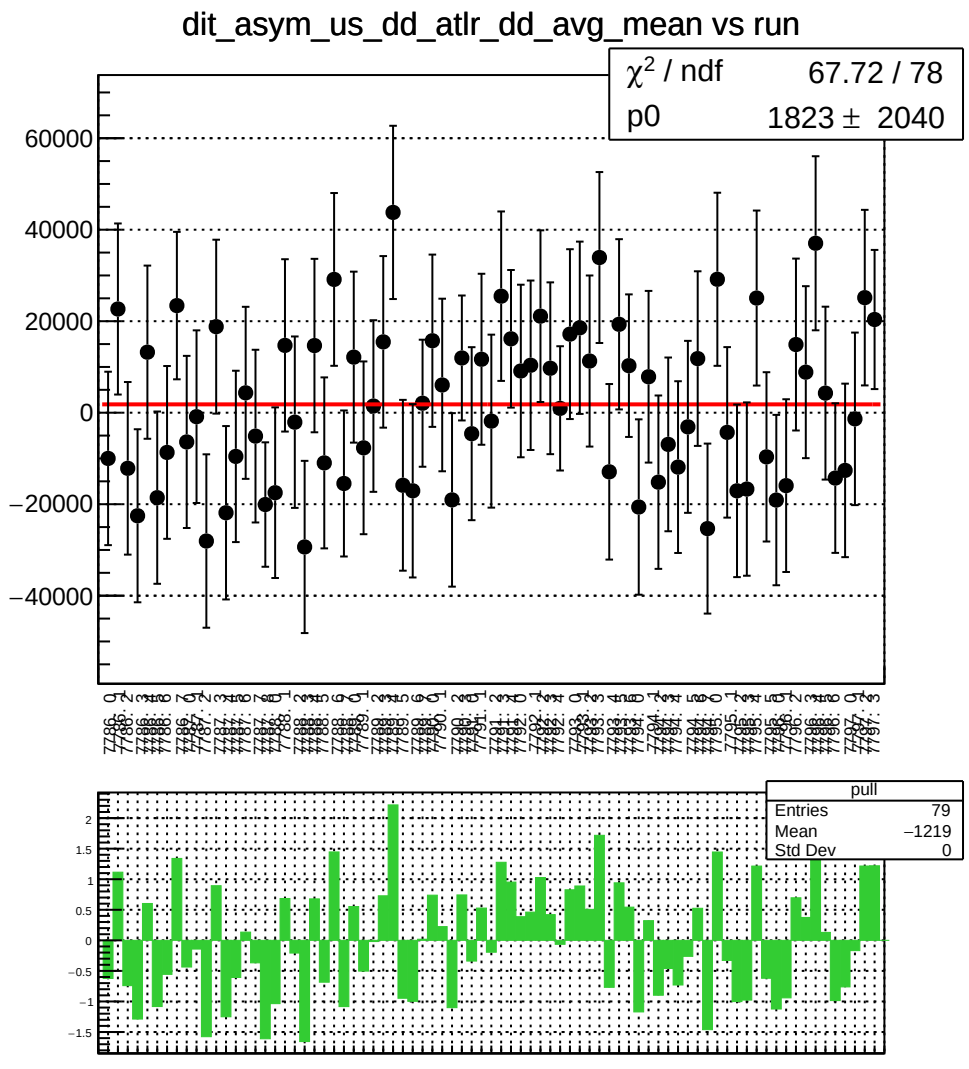

pull1D
Entries 79
Mean −0.002479
Std Dev 0.9234
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

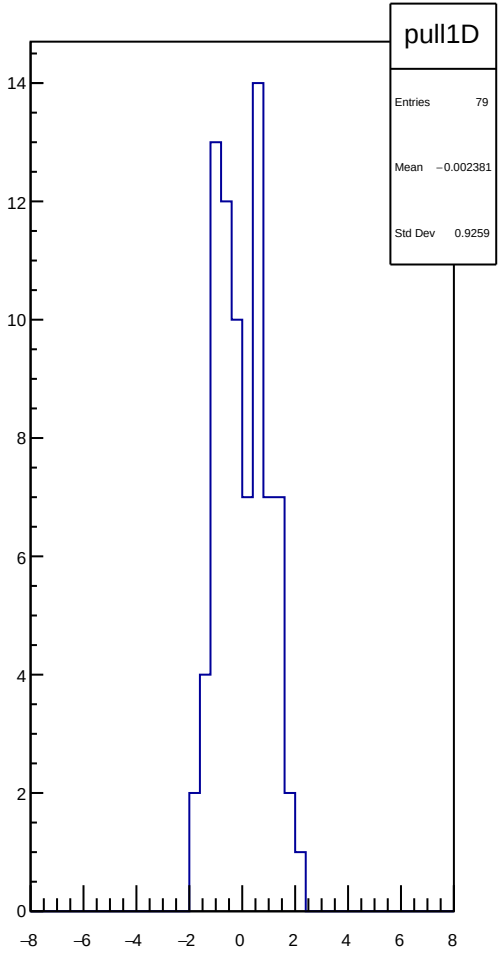

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 101.4 / 78
p0 1784 ± 1.44
1840
1820
1800
1780
1760
1740

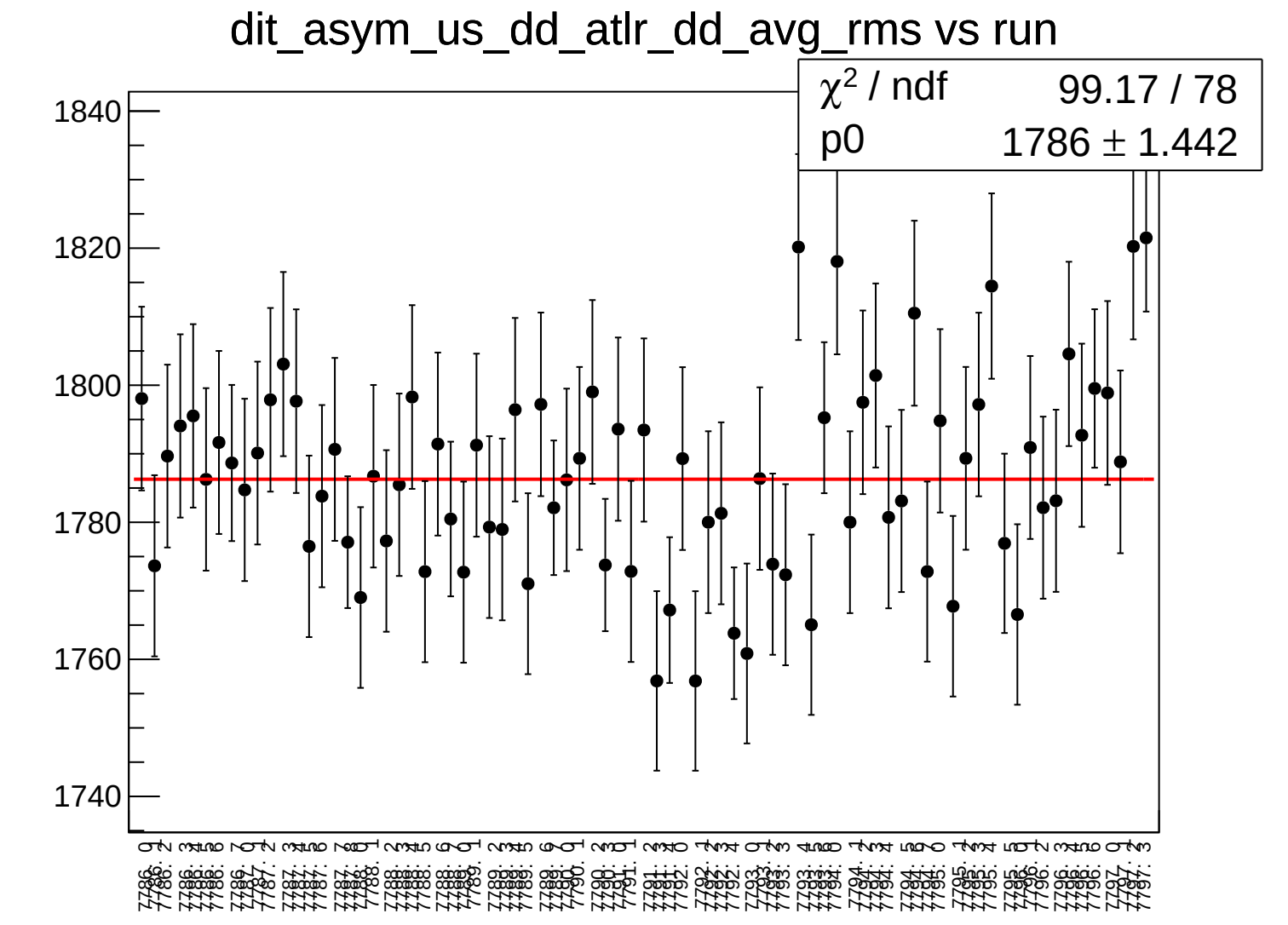

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.3 / 78
p0 −3602 ± 2883
pull
Entries 79
Mean −101.3
Std Dev 0

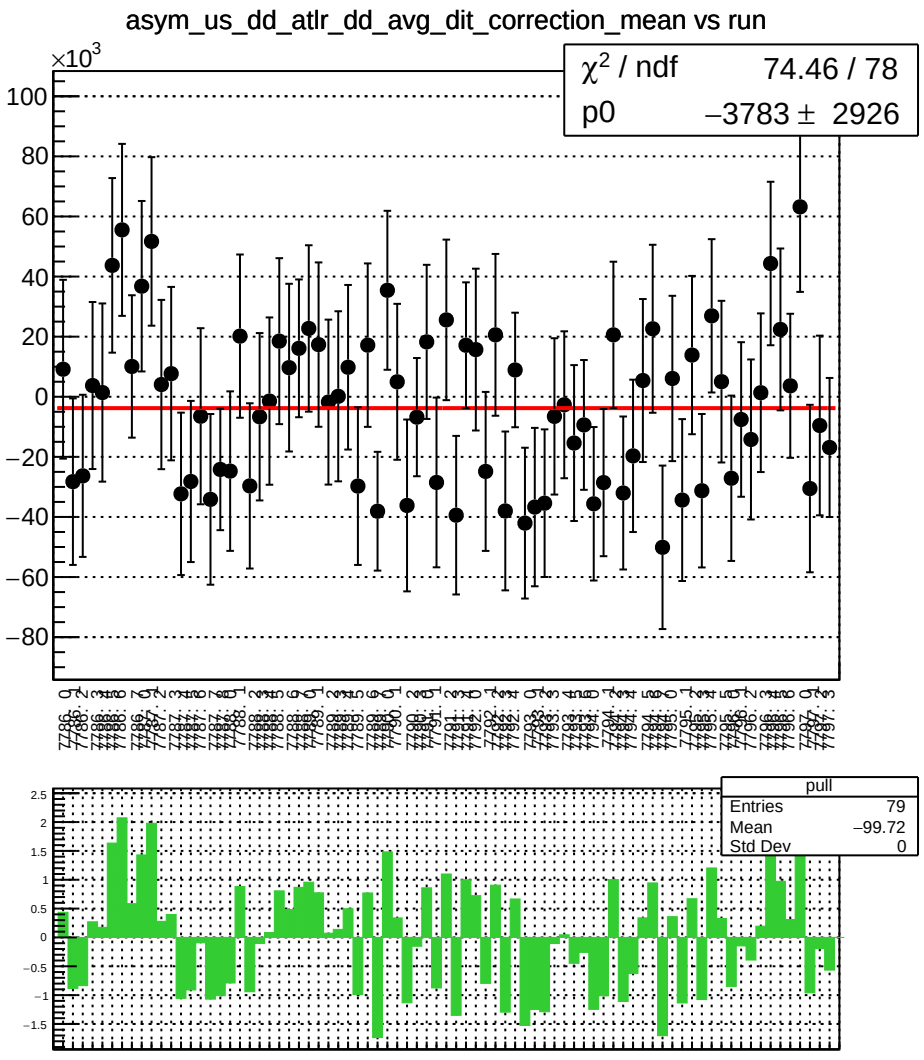

pull1D
Entries 79
Mean 0.01643
Std Dev 0.9762

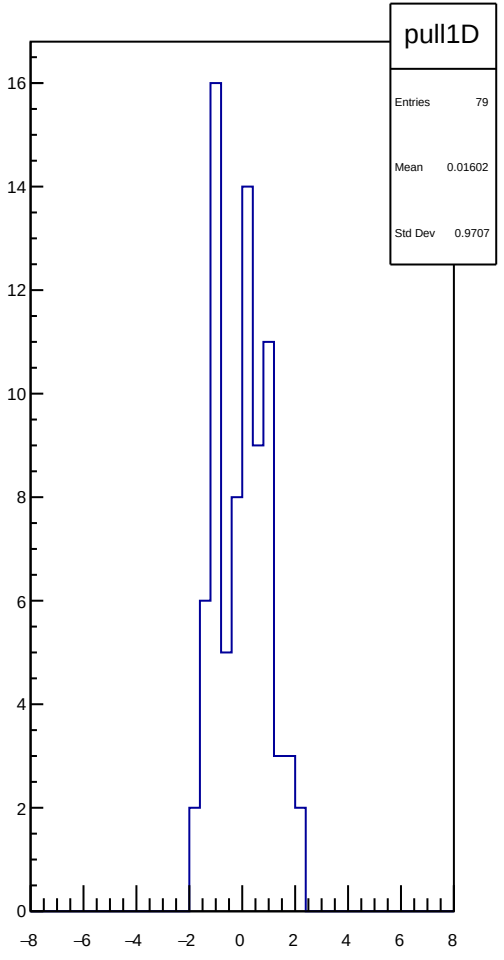

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3884 / 78
p0 2522 ± 2.039
2900
2800
2700
2600
2500
2400
2300
2200

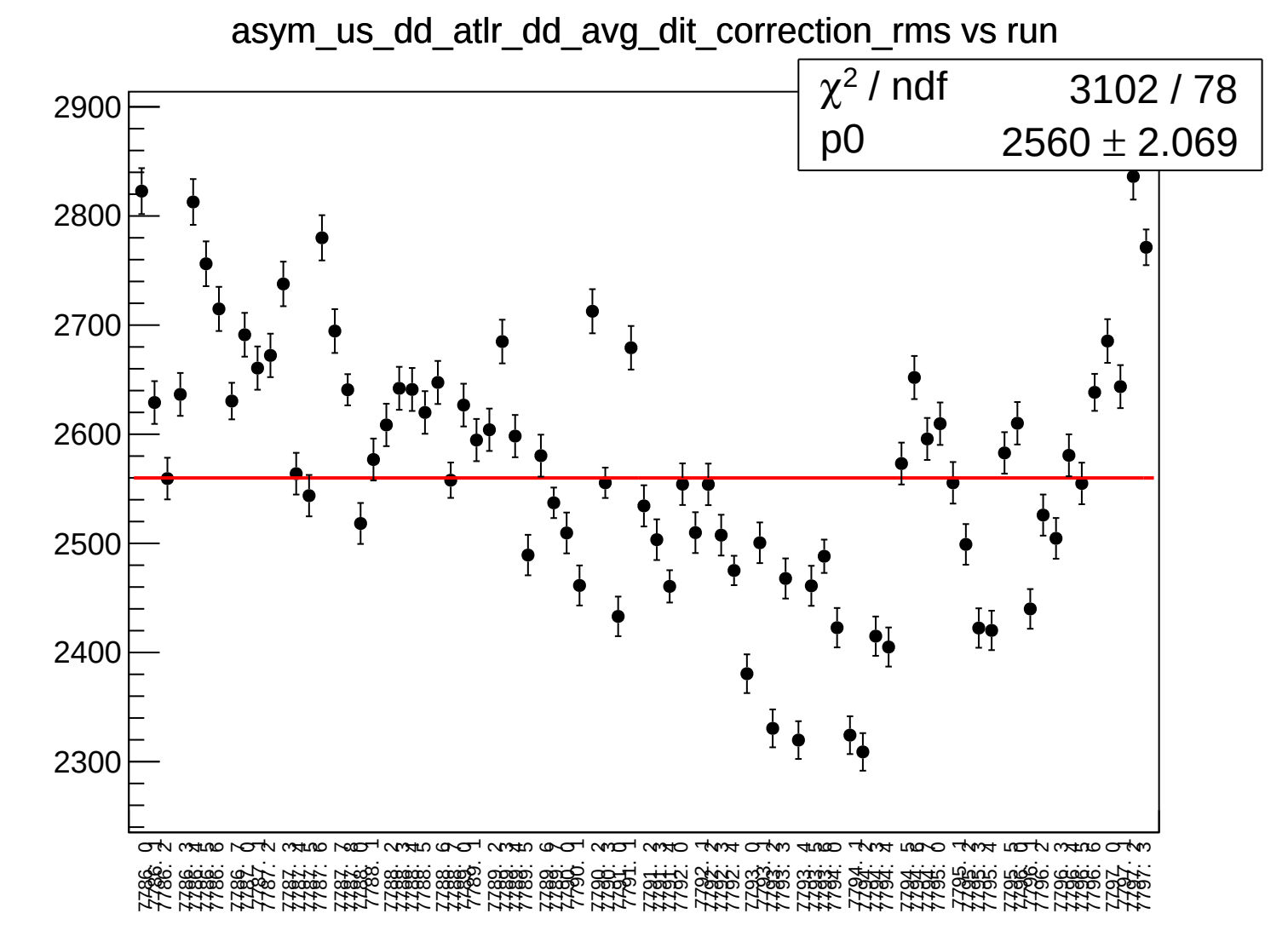

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 67.72 / 78
p0 1823 ± 2040
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −1219
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

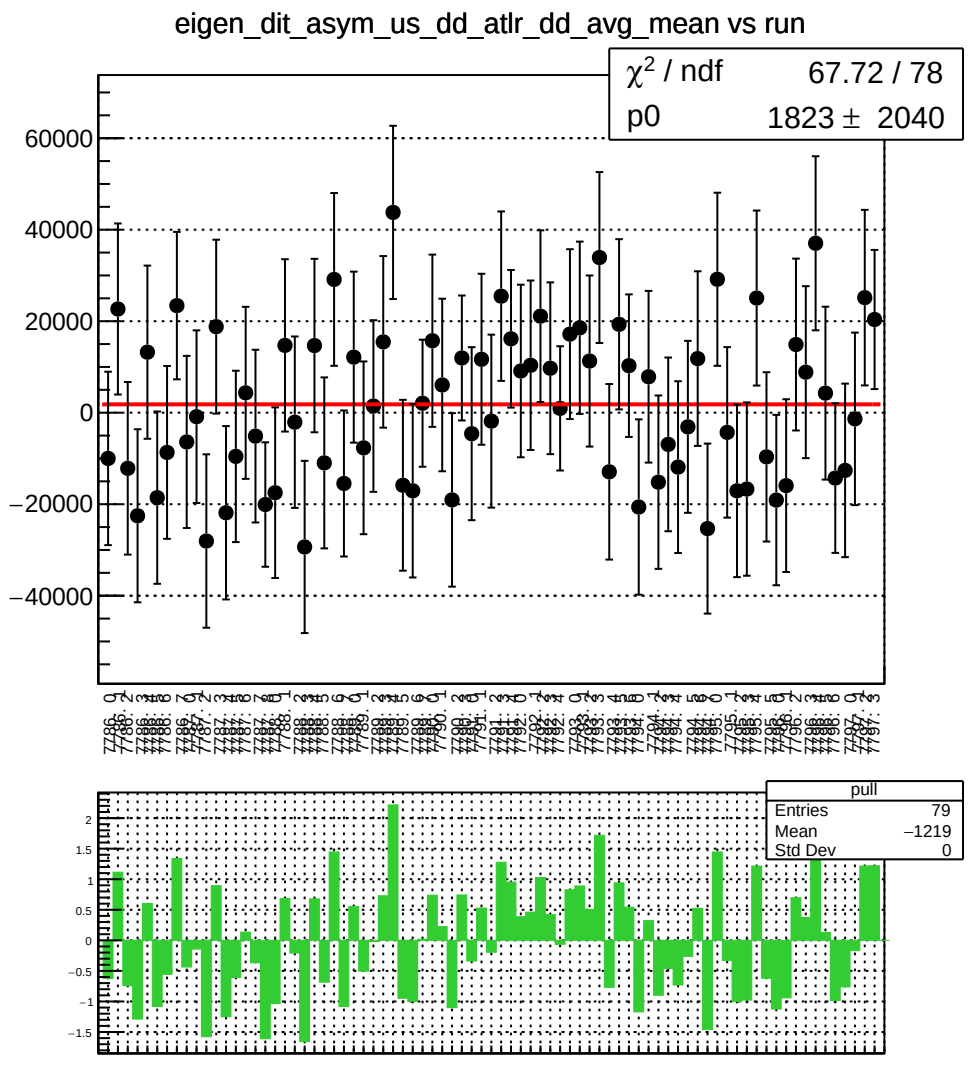

pull1D
Entries 79
Mean −0.002381
Std Dev 0.9259
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

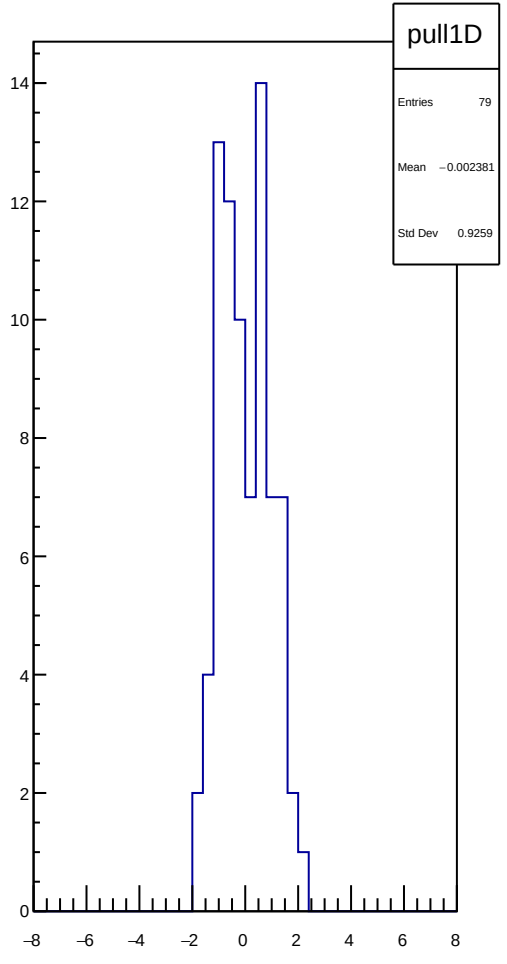

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 99.17 / 78
p0 1786 ± 1.442
1840
1820
1800
1780
1760
1740

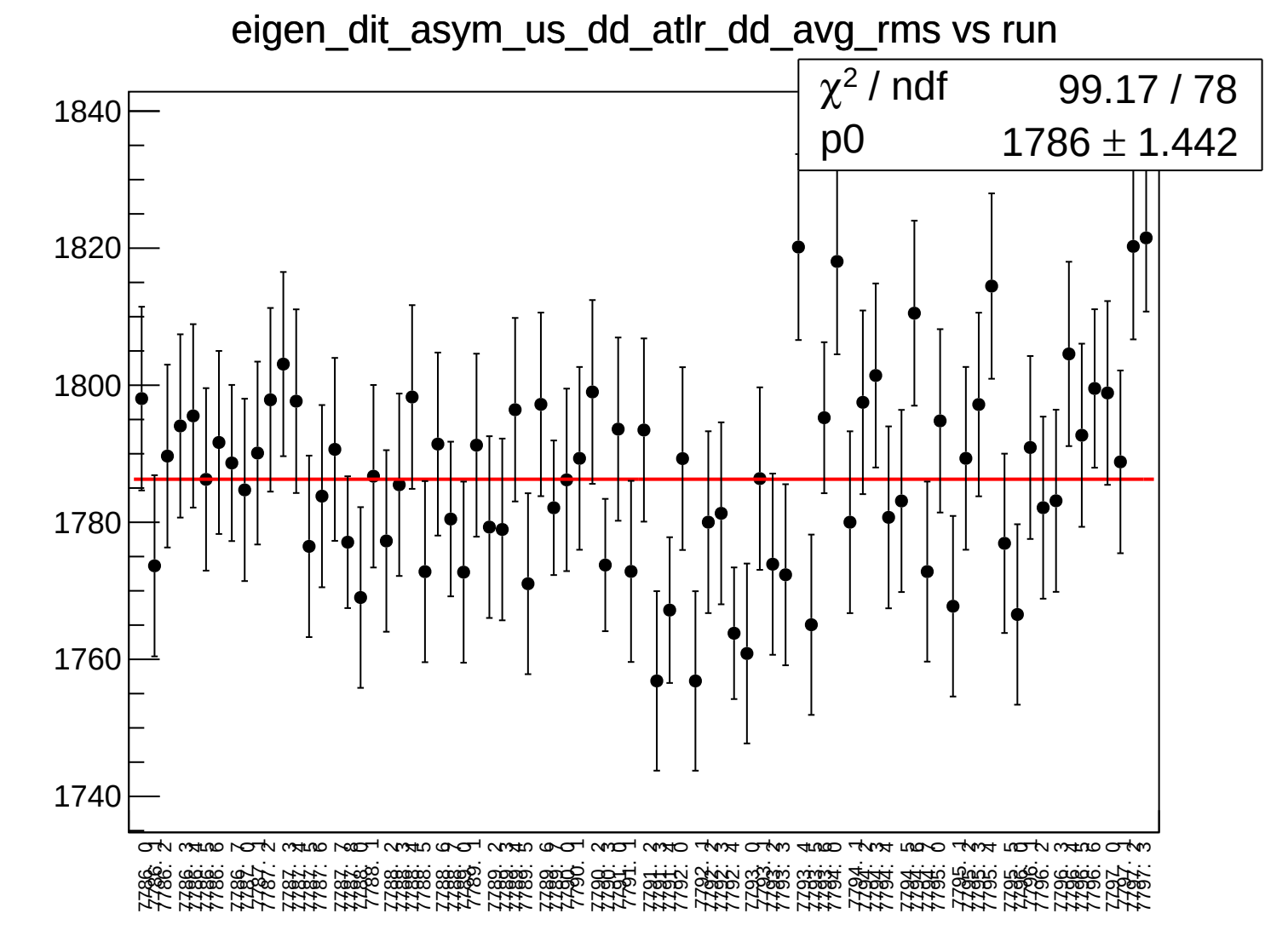

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 74.46 / 78
p0 −3783 ± 2926
pull
Entries 79
Mean −99.72
Std Dev 0

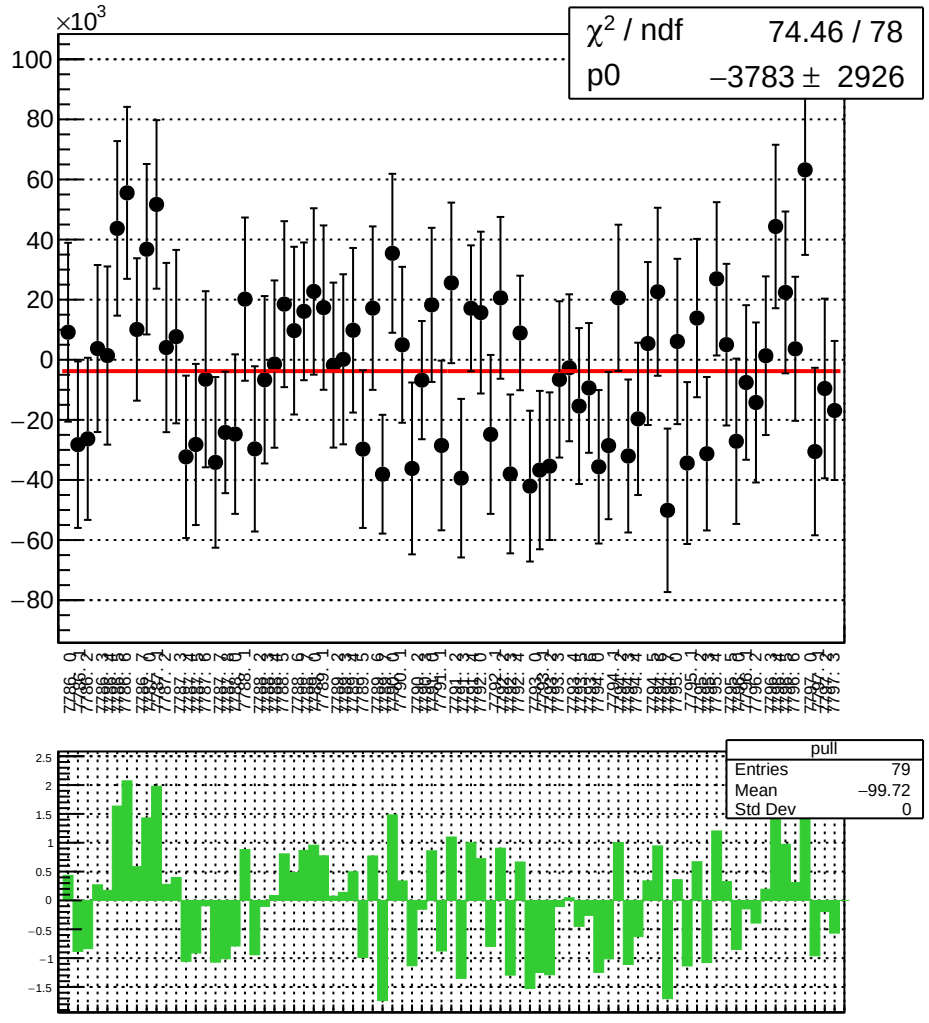

pull1D
Entries 79
Mean 0.01602
Std Dev 0.9707

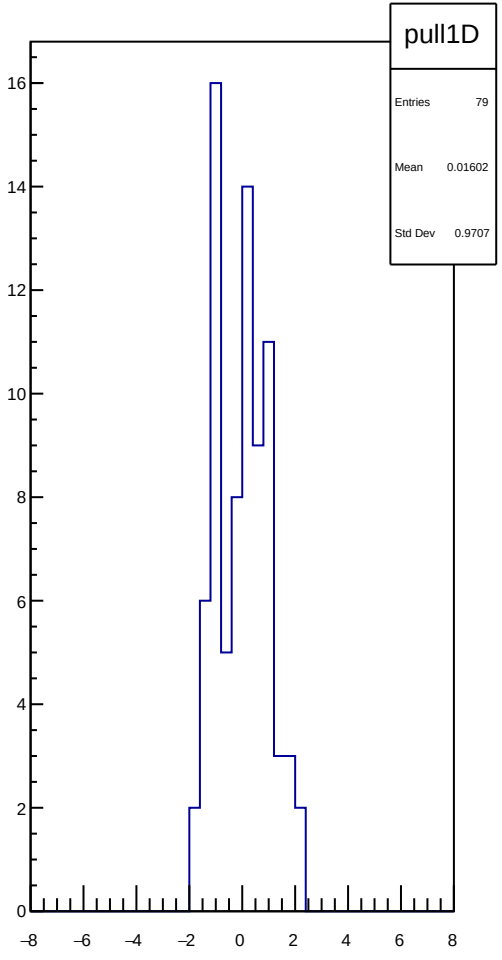

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3102 / 78
p0 2560 ± 2.069
2900
2800
2700
2600
2500
2400
2300

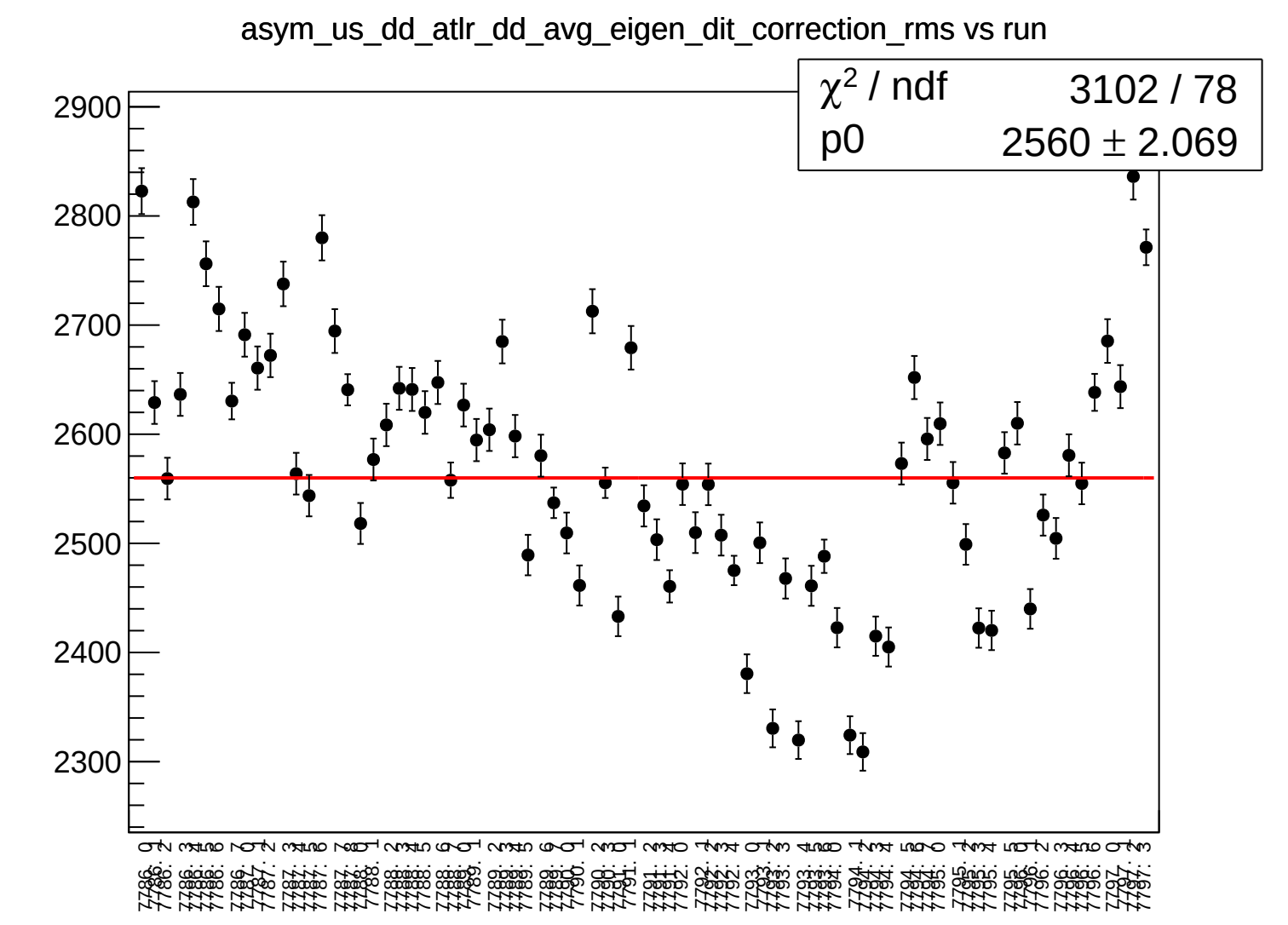

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 67.72 / 78
p0 1823 ± 2040
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −1219
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

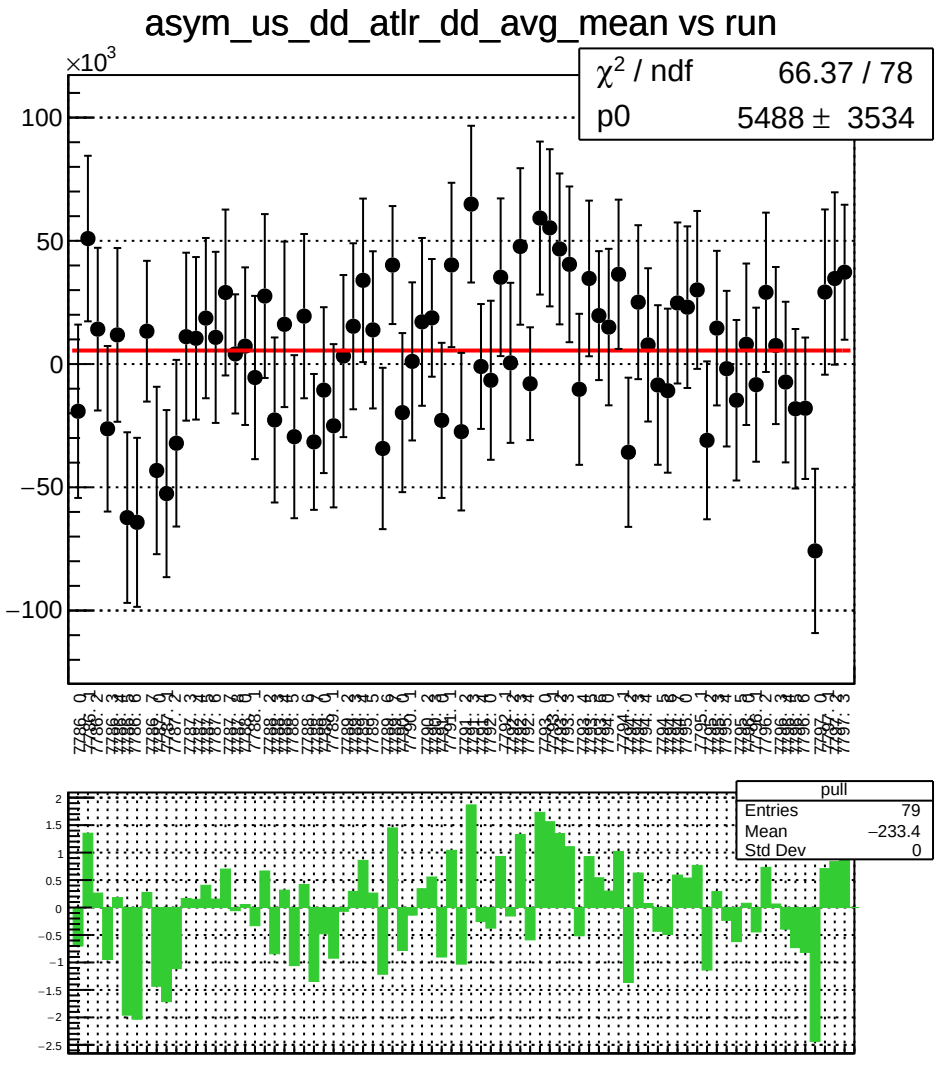

pull1D
Entries 79
Mean −0.002381
Std Dev 0.9259
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

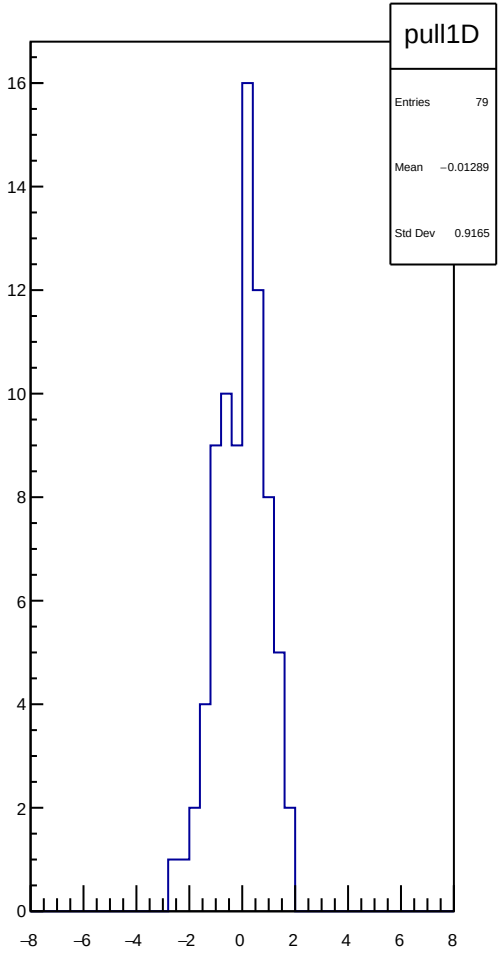

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 99.17 / 78
p0 1786 ± 1.442
1840
1820
1800
1780
1760
1740

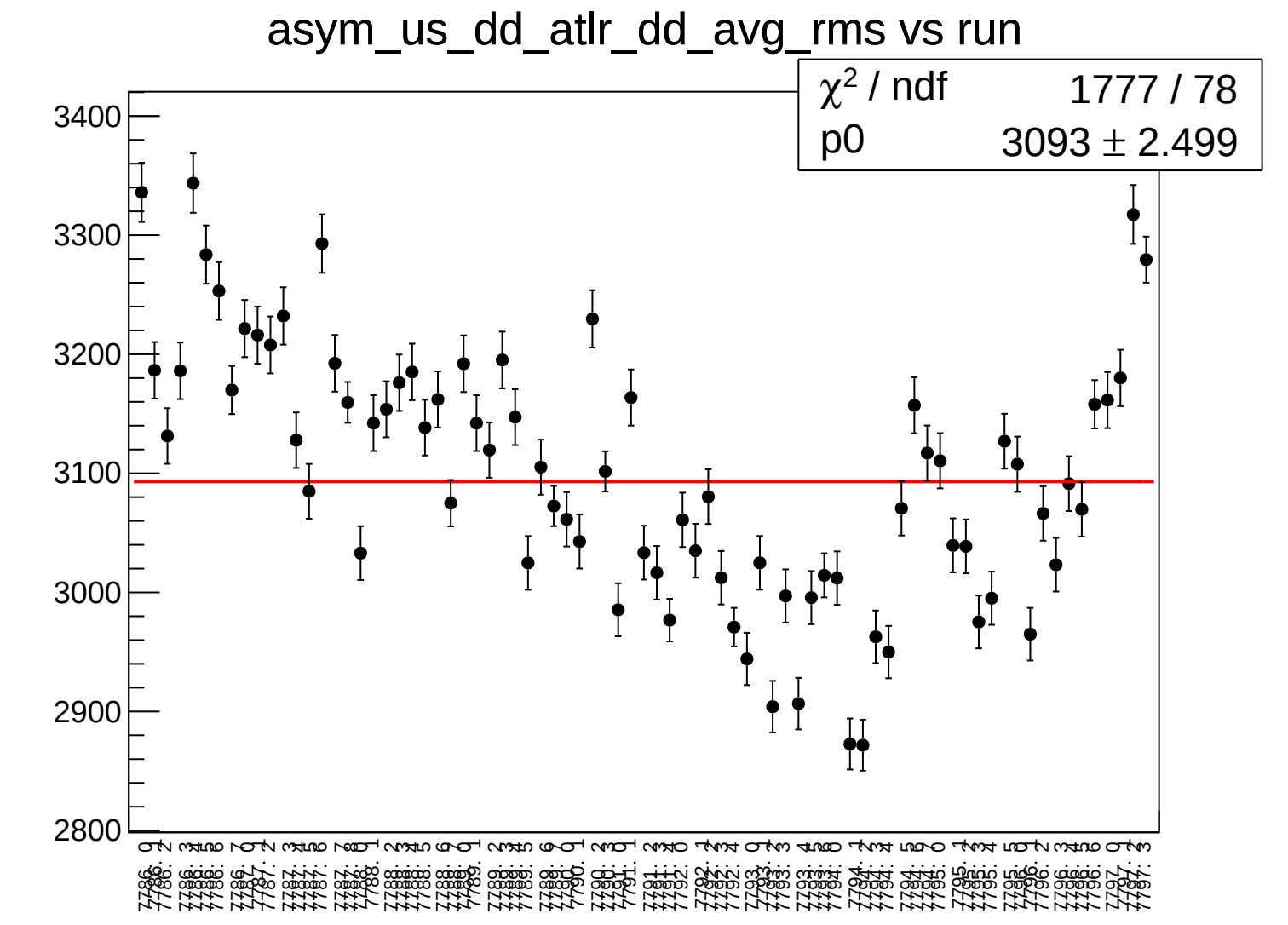

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.46 / 78
p0 −3783 ± 2926
pull
Entries 79
Mean −99.72
Std Dev 0

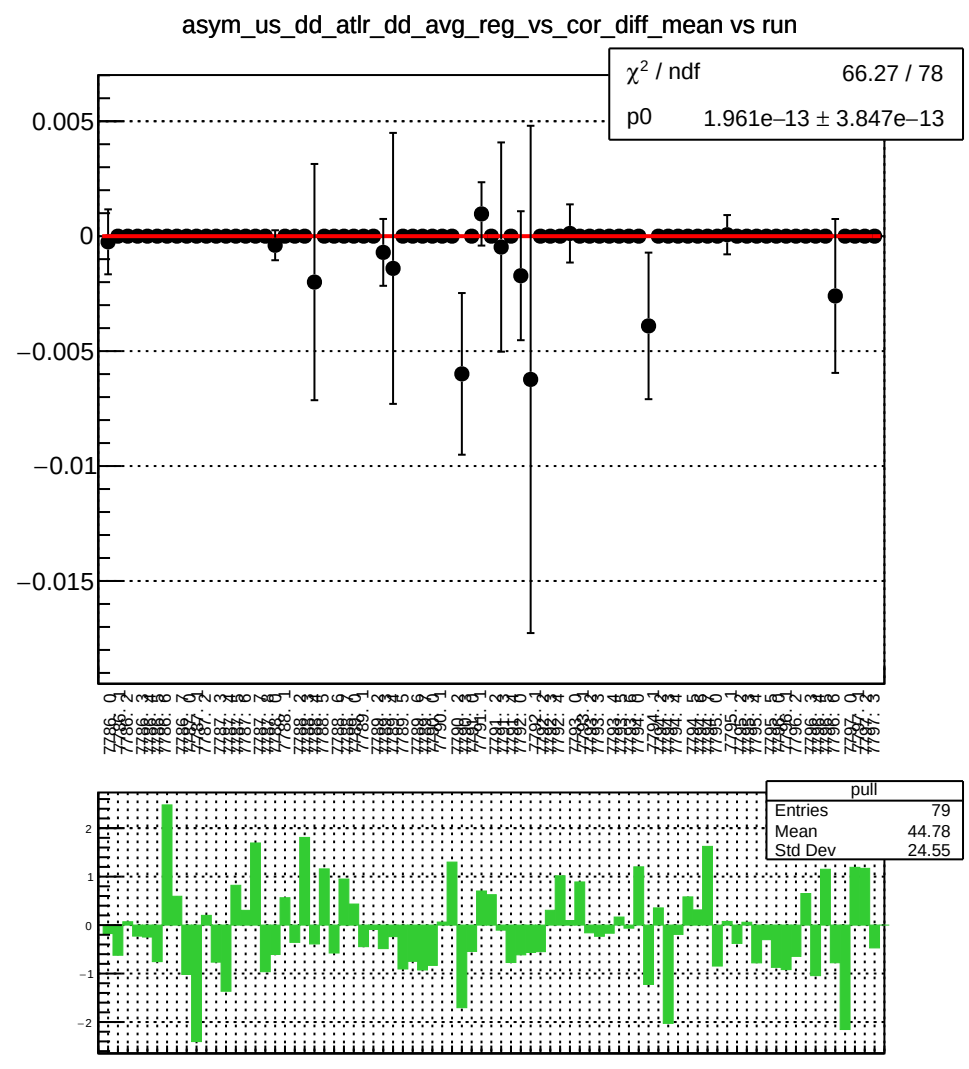

pull1D
Entries 79
Mean 0.01602
Std Dev 0.9707

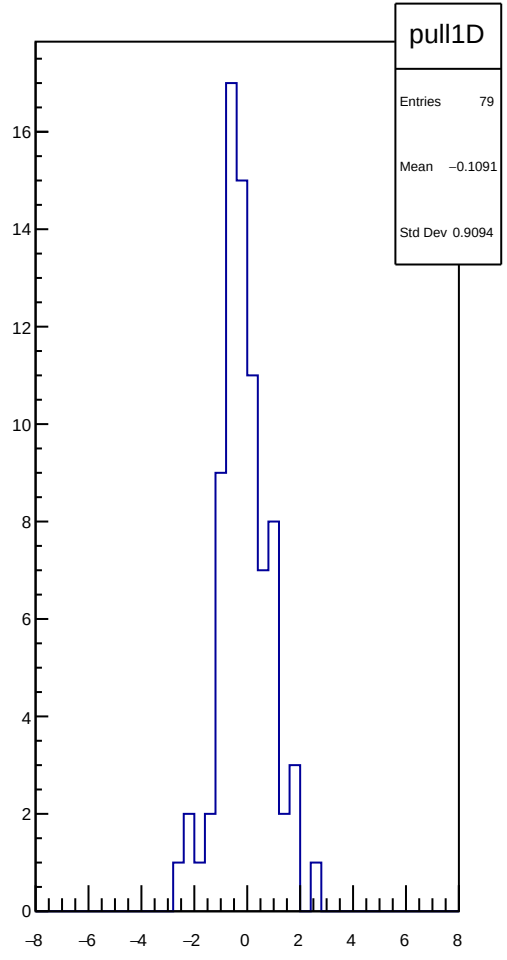

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3102 / 78
p0 2560 ± 2.069
2900
2800
2700
2600
2500
2400
2300

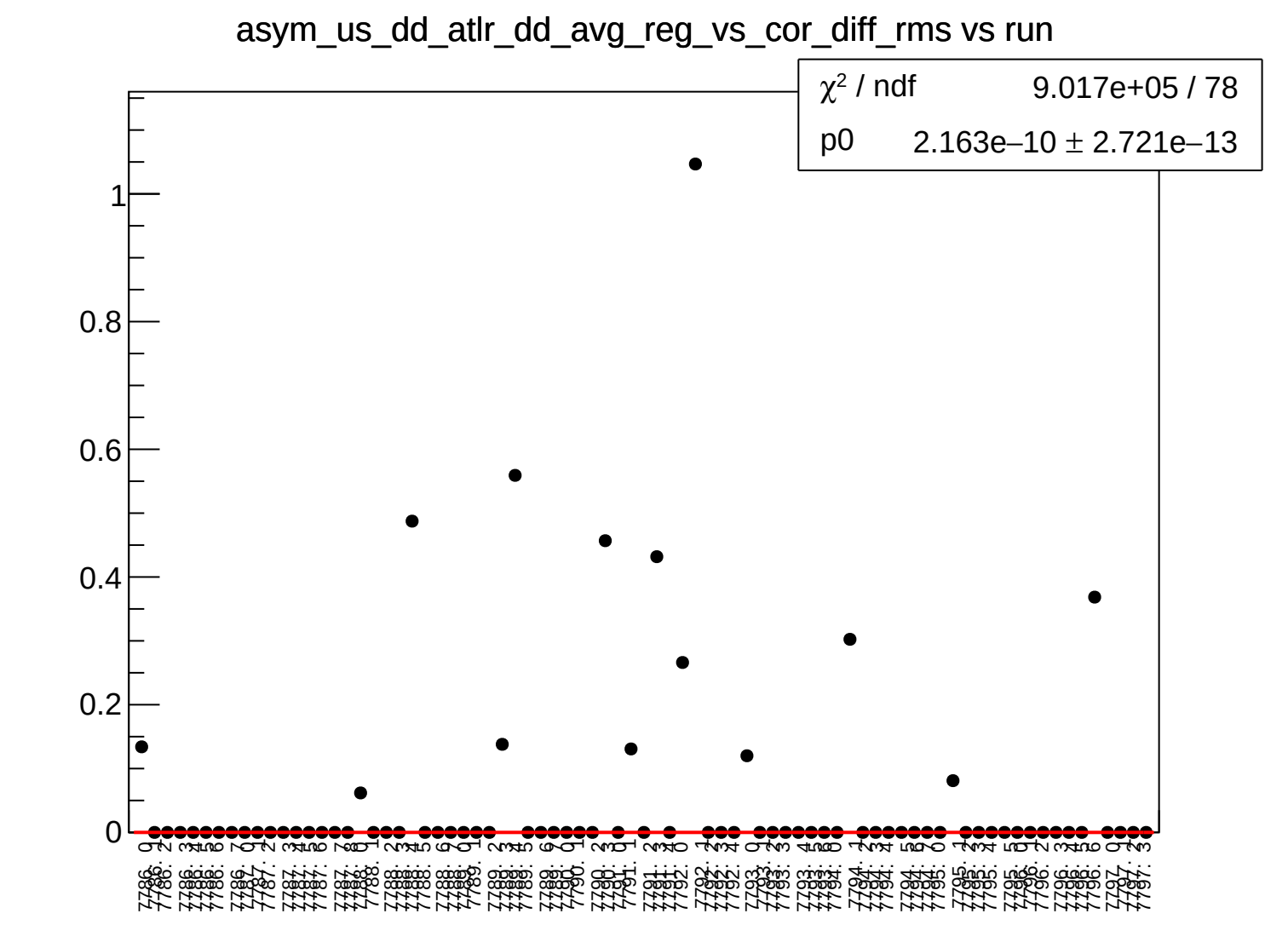

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 66.37 / 78
p0 5488 ± 3534
pull
Entries 79
Mean −233.4
Std Dev 0

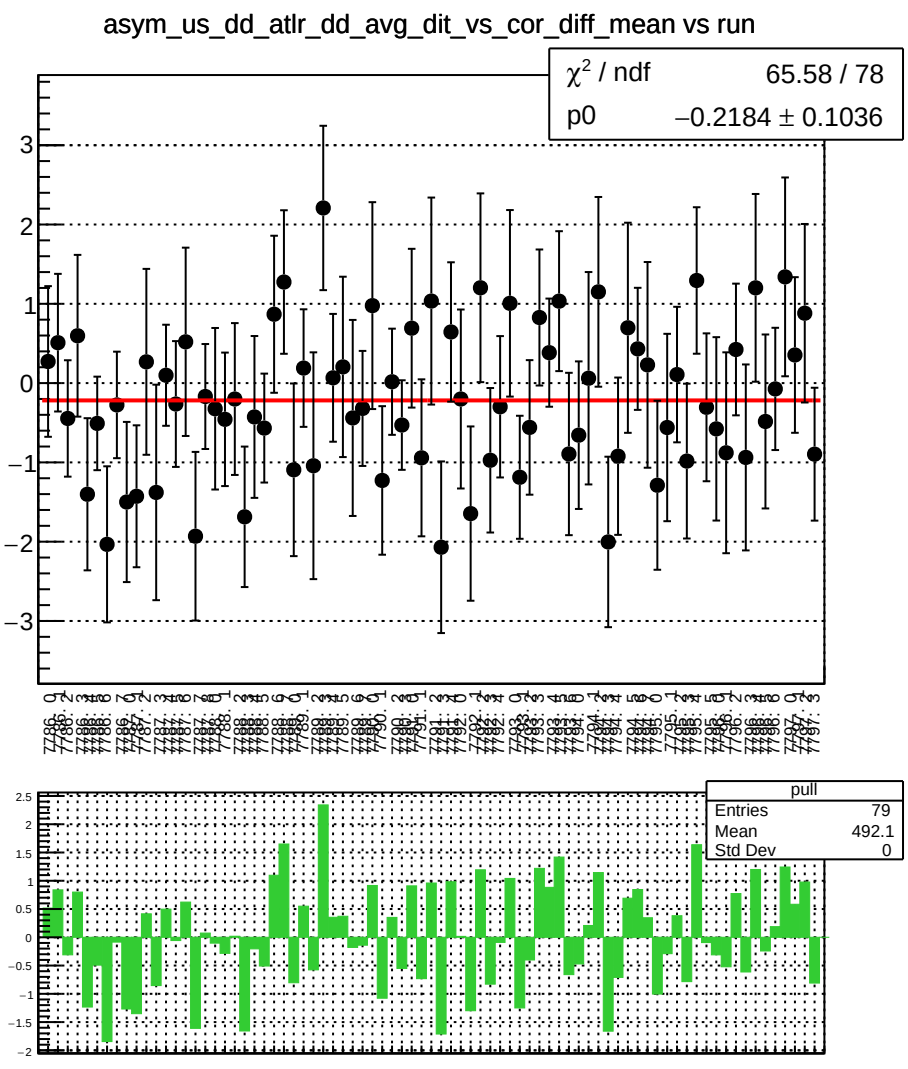

pull1D
Entries 79
Mean −0.01289
Std Dev 0.9165

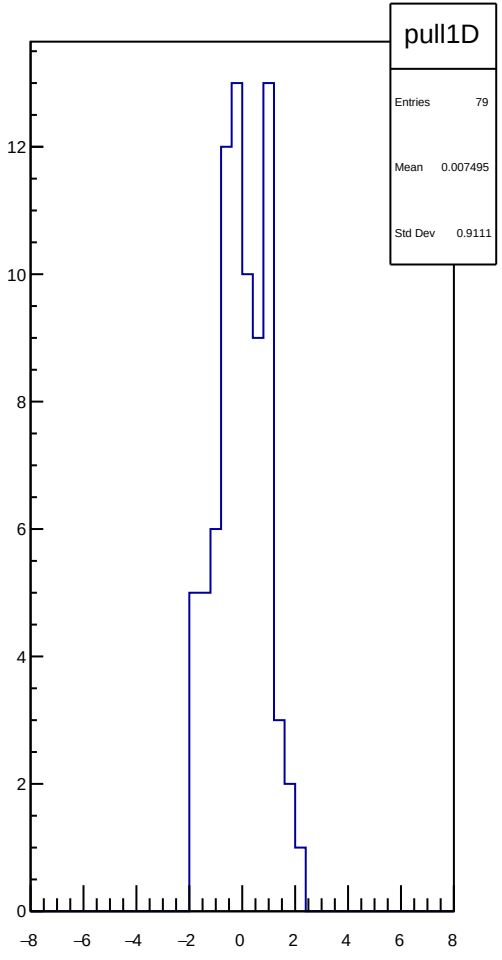

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1777 / 78
p0 3093 ± 2.499
3400
3300
3200
3100
3000
2900
2800

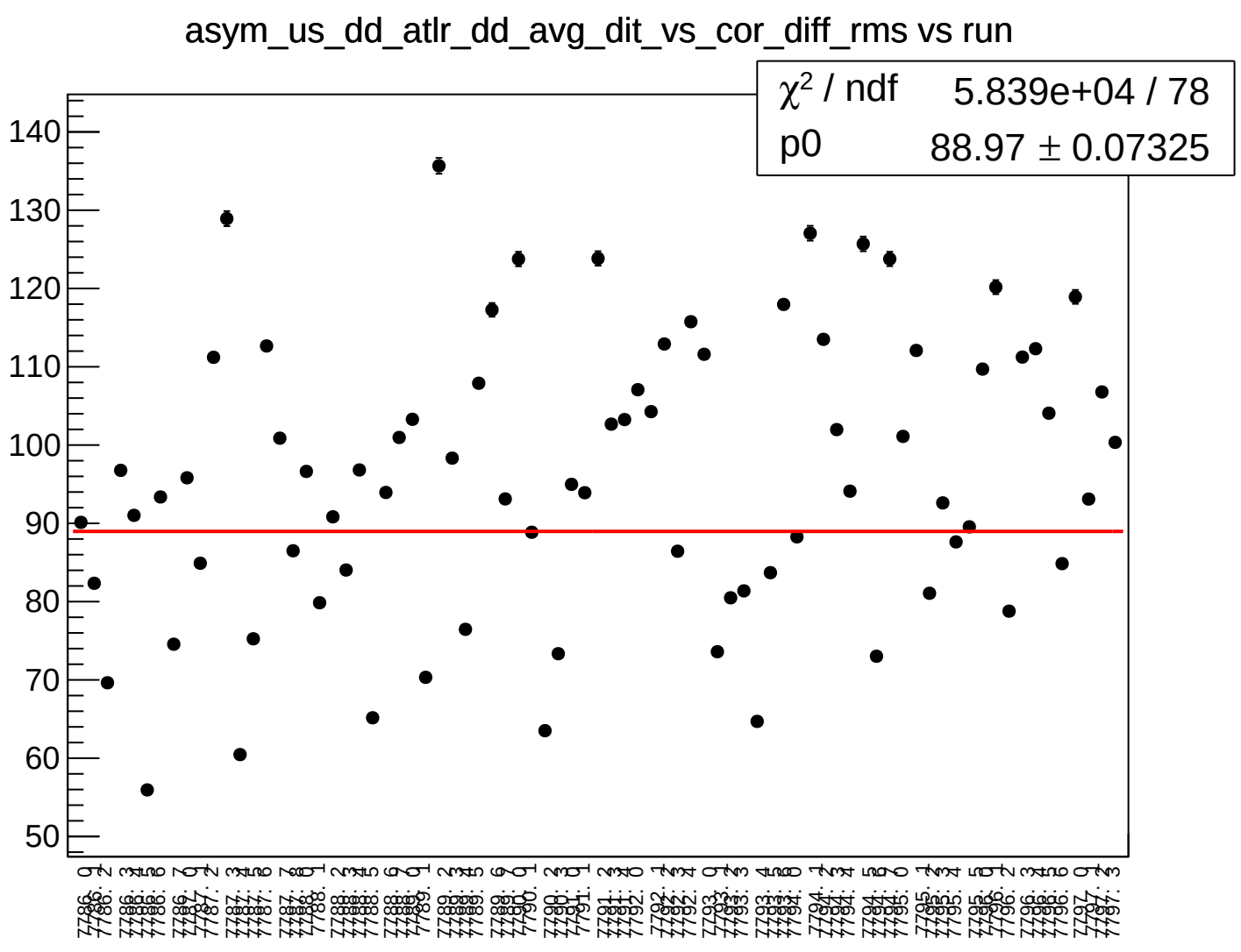

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.27 / 78
p0 1.961e−13 ± 3.847e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 79
Mean 44.78
Std Dev 24.55
2
1
0
−1
−2

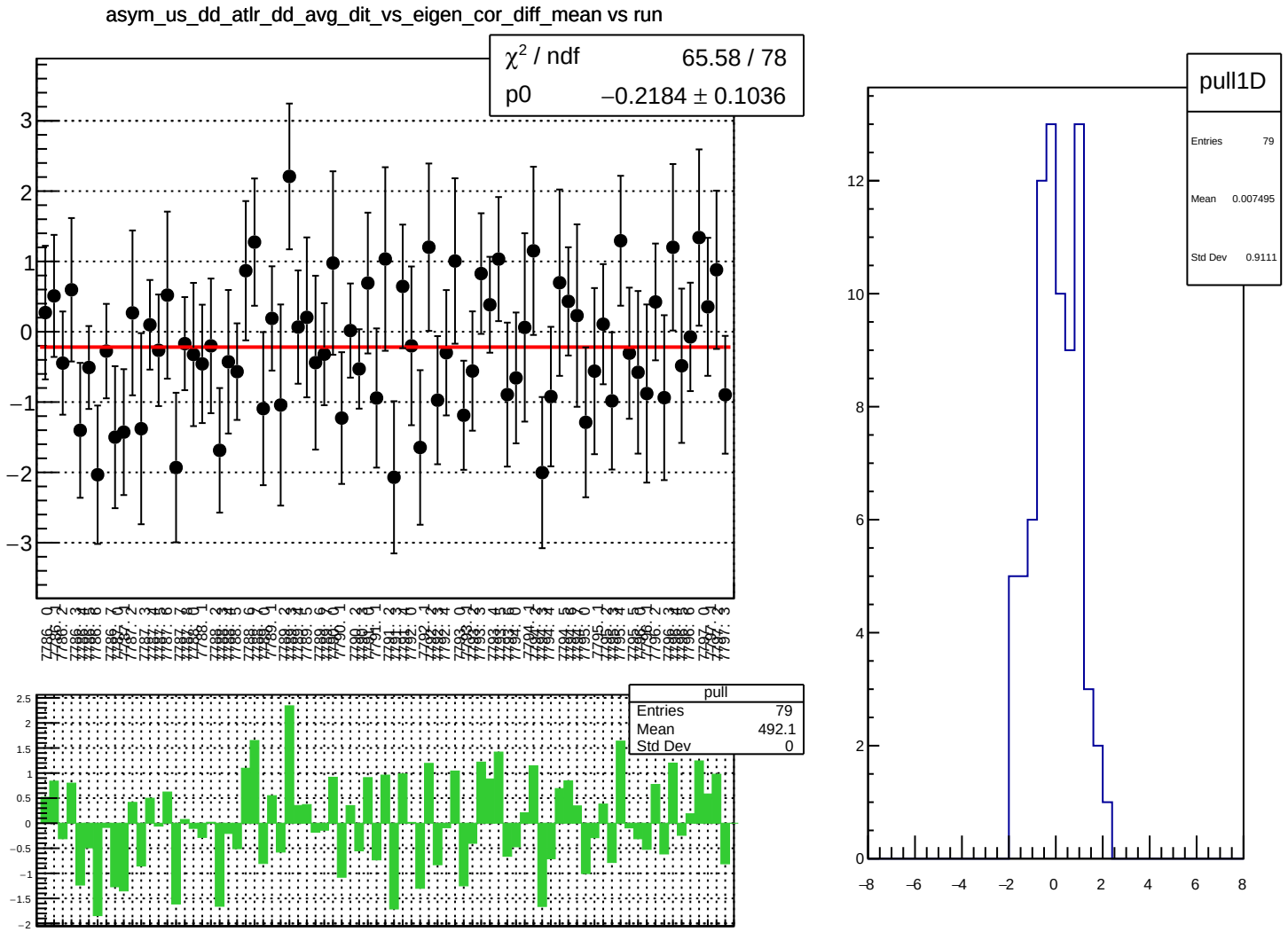

pull1D
Entries 79
Mean −0.1091
Std Dev 0.9094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

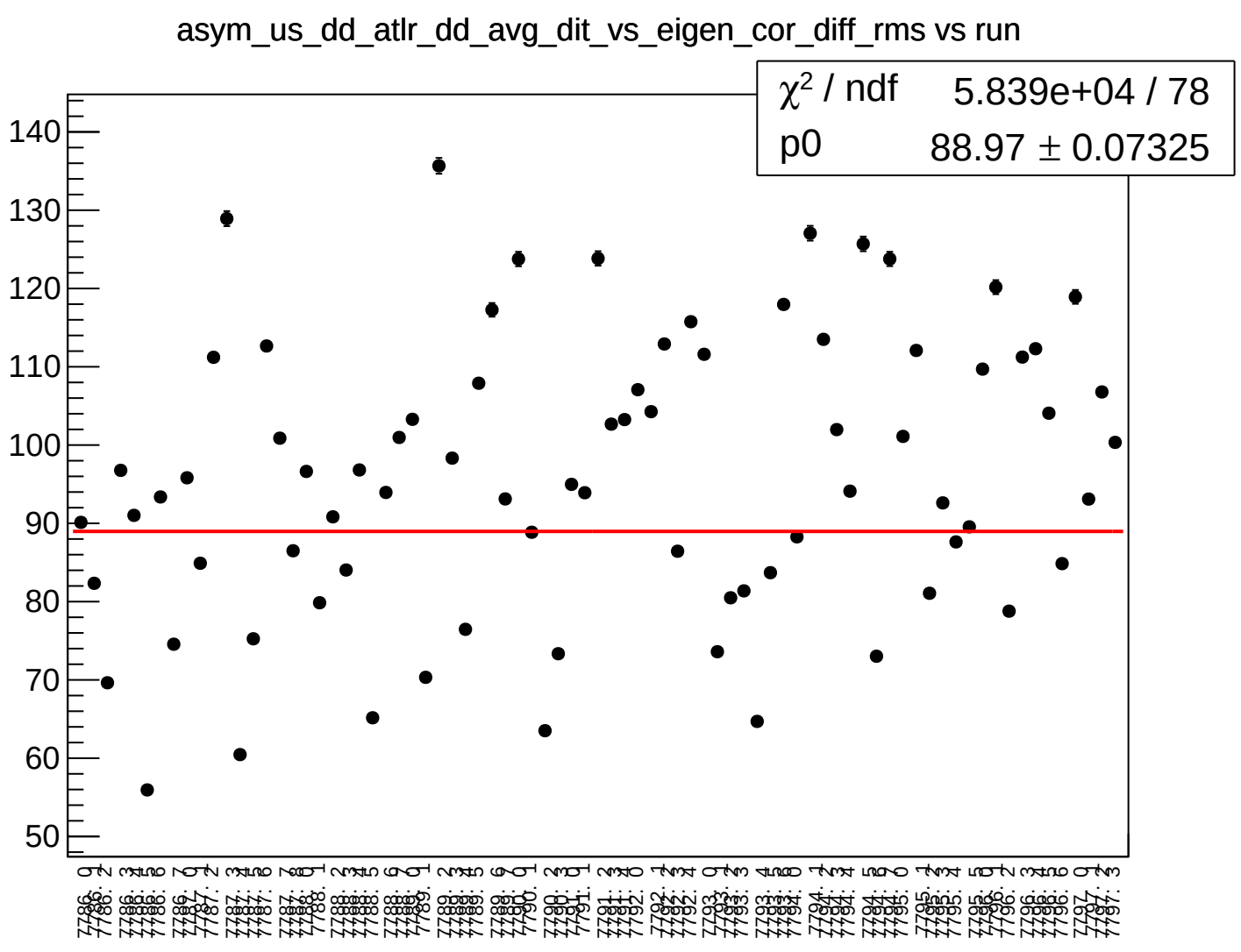

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.017e+05 / 78
p0 2.163e−10 ± 2.721e−13
1
0.8
0.6
0.4
0.2
0

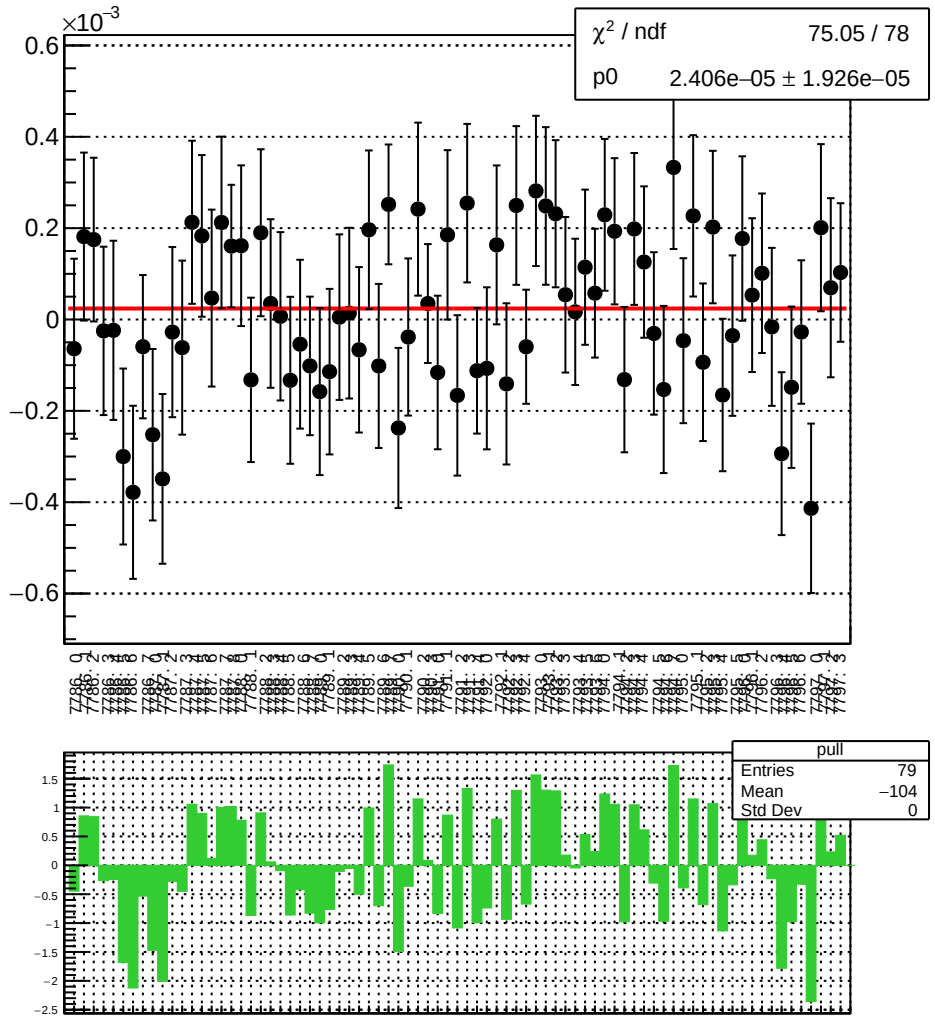

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.58 / 78
p0 −0.2184 ± 0.1036
pull
Entries 79
Mean 492.1
Std Dev 0

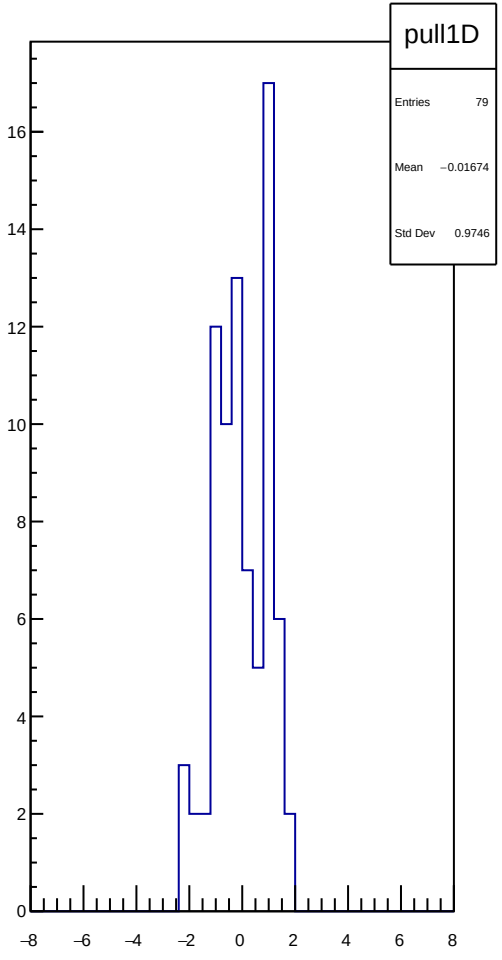

pull1D
Entries 79
Mean 0.007495
Std Dev 0.9111

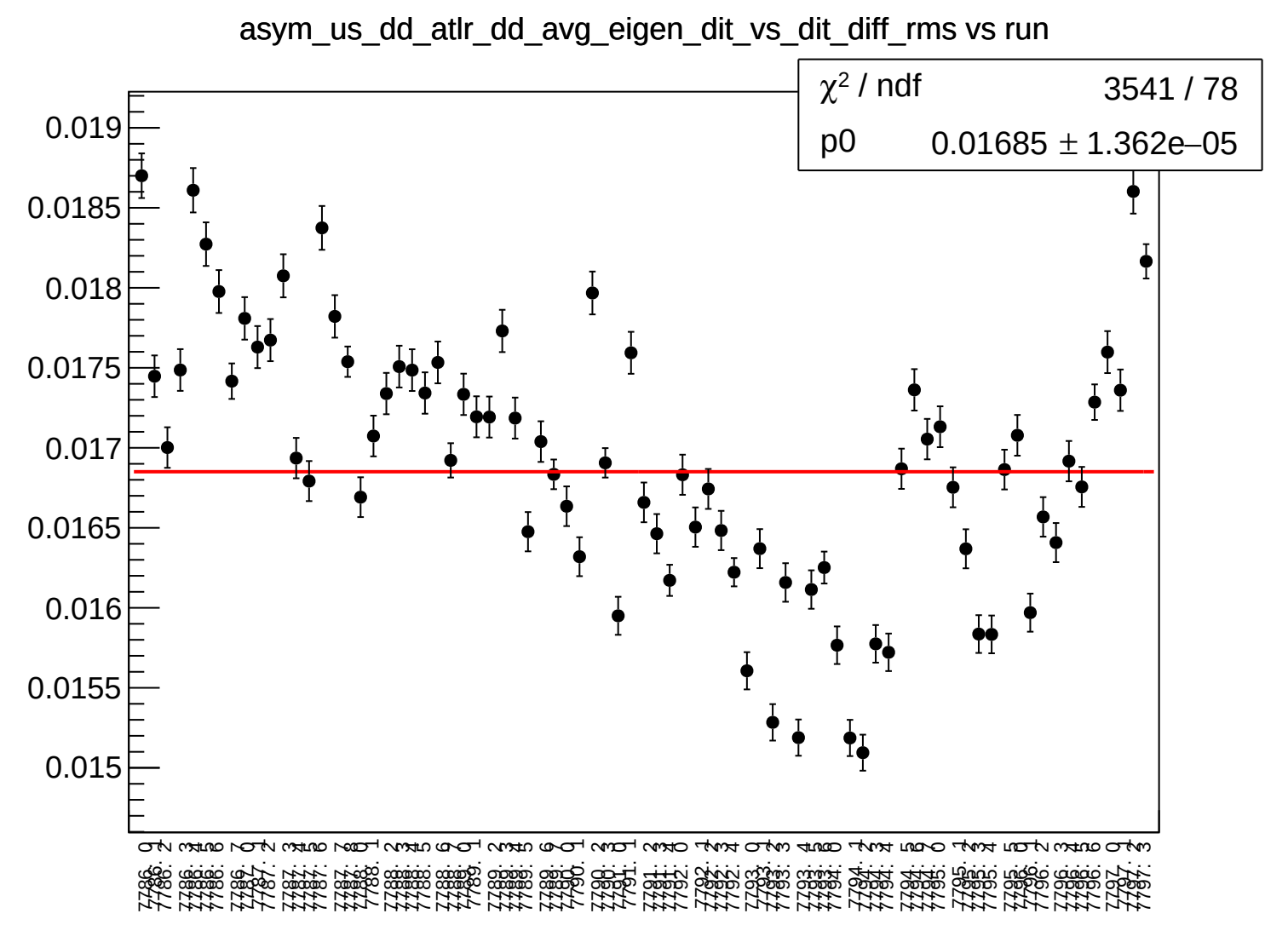

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.839e+04 / 78
p0 88.97 ± 0.07325
140
130
120
110
100
90
80
70
60
50

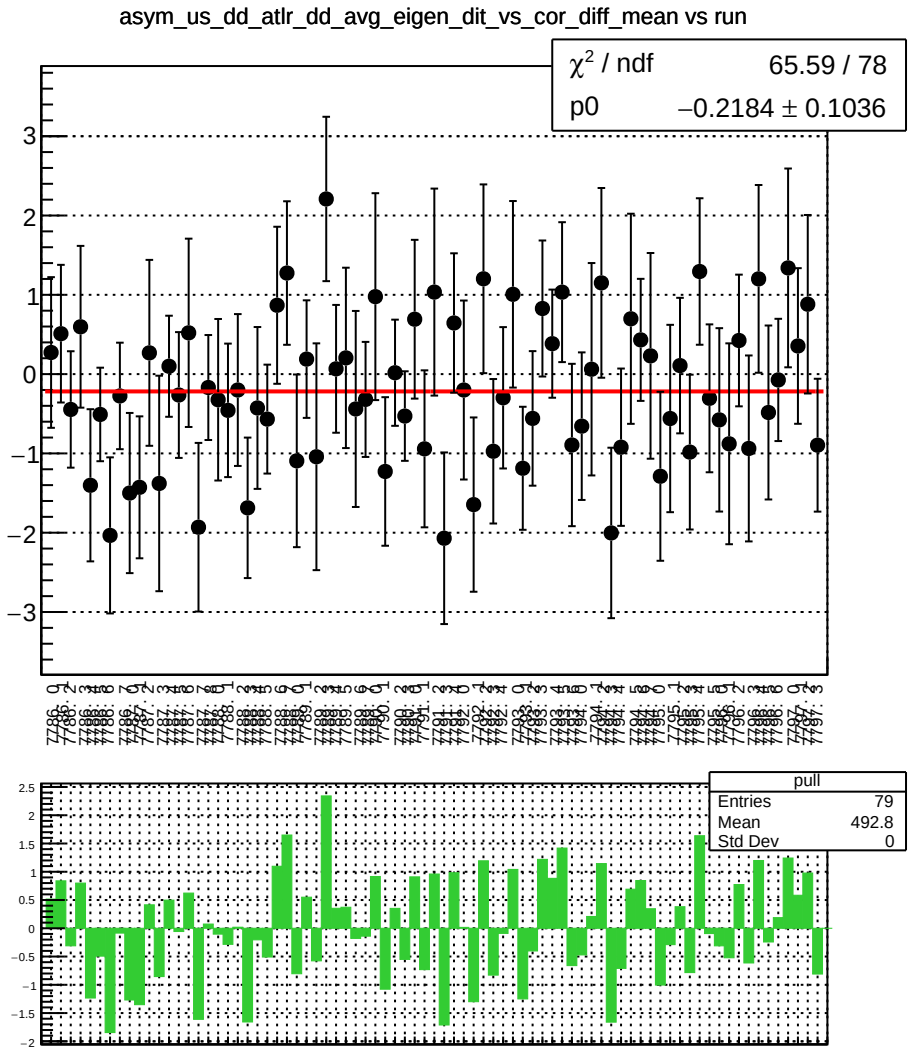

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.58 / 78
p0 −0.2184 ± 0.1036
pull
Entries 79
Mean 492.1
Std Dev 0
pull1D
Entries 79
Mean 0.007495
Std Dev 0.9111

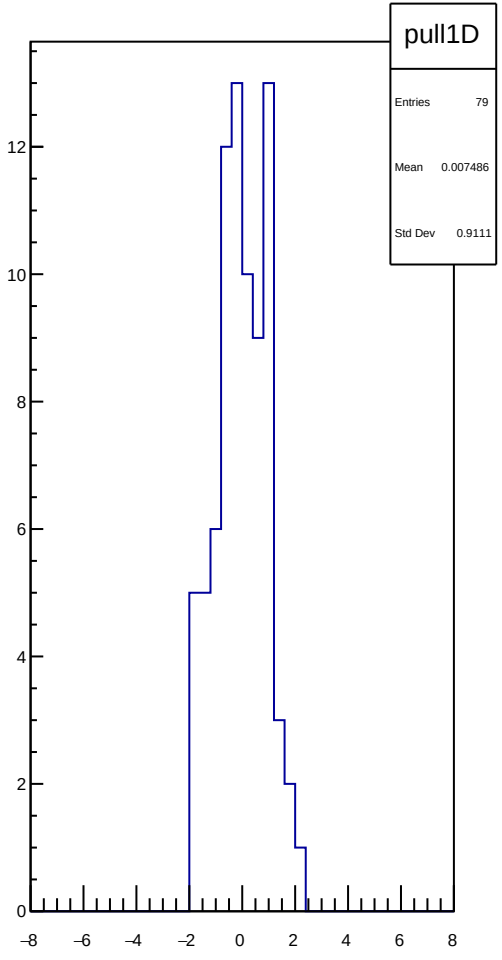

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.839e+04 / 78
p0 88.97 ± 0.07325
140
130
120
110
100
90
80
70
60
50

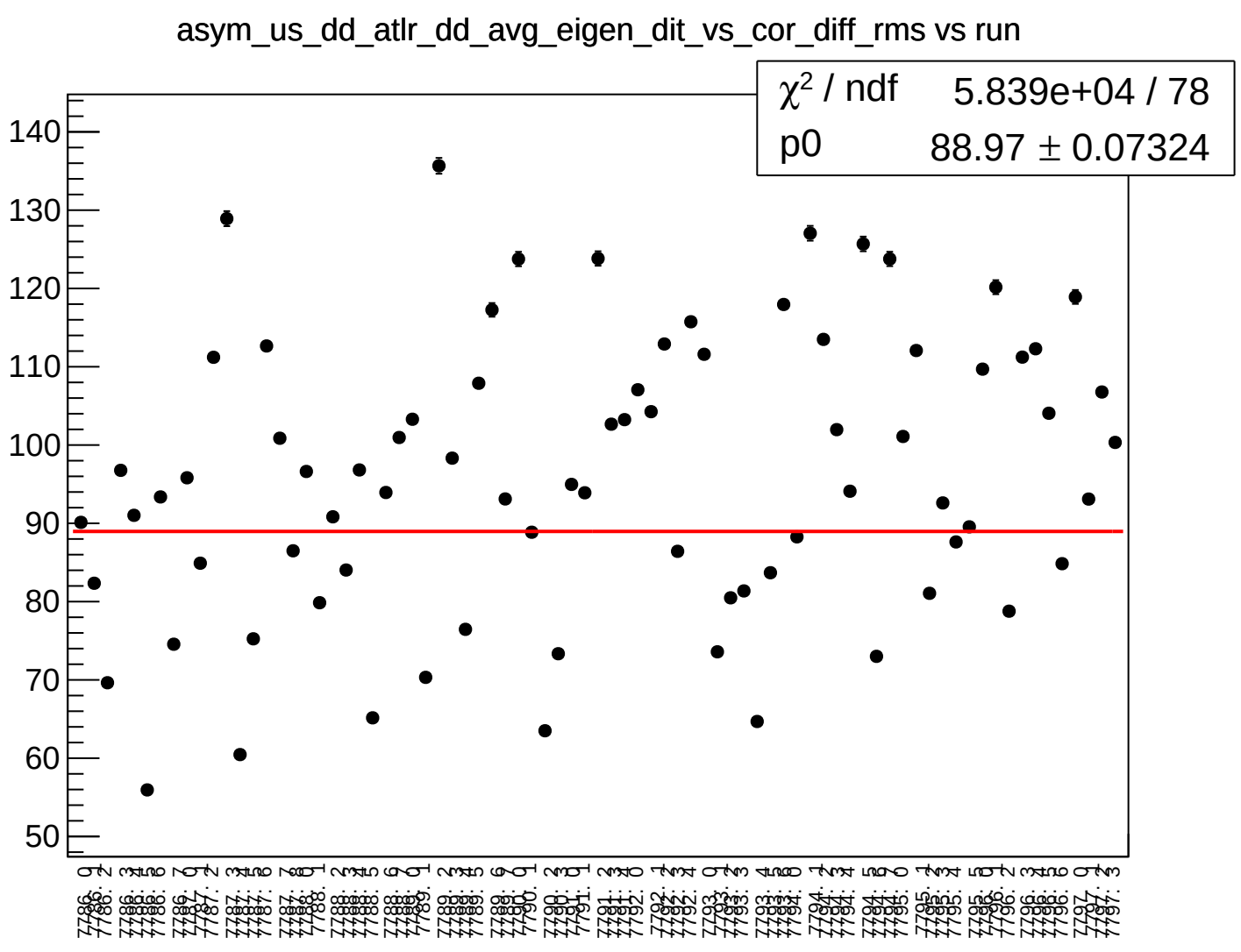

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.05 / 78
p0 2.406e−05 ± 1.926e−05
pull
Entries 79
Mean −104
Std Dev 0

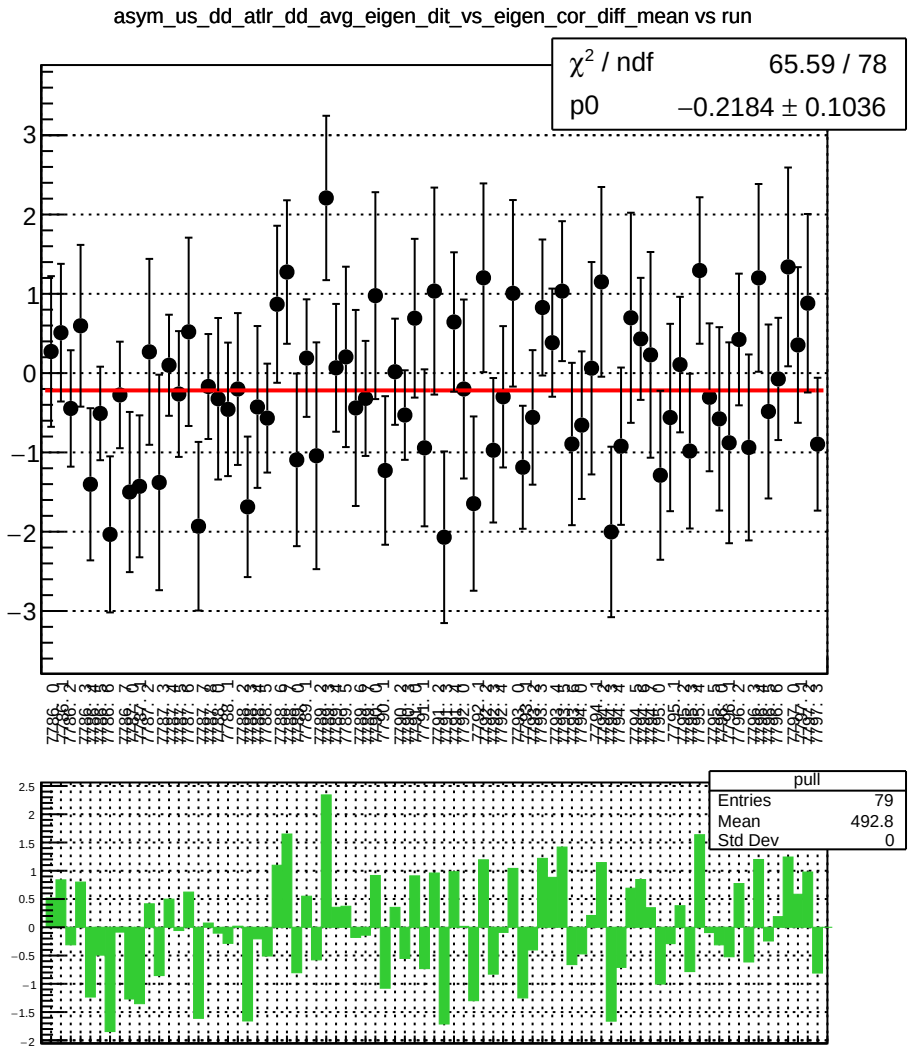

pull1D
Entries 79
Mean −0.01674
Std Dev 0.9746

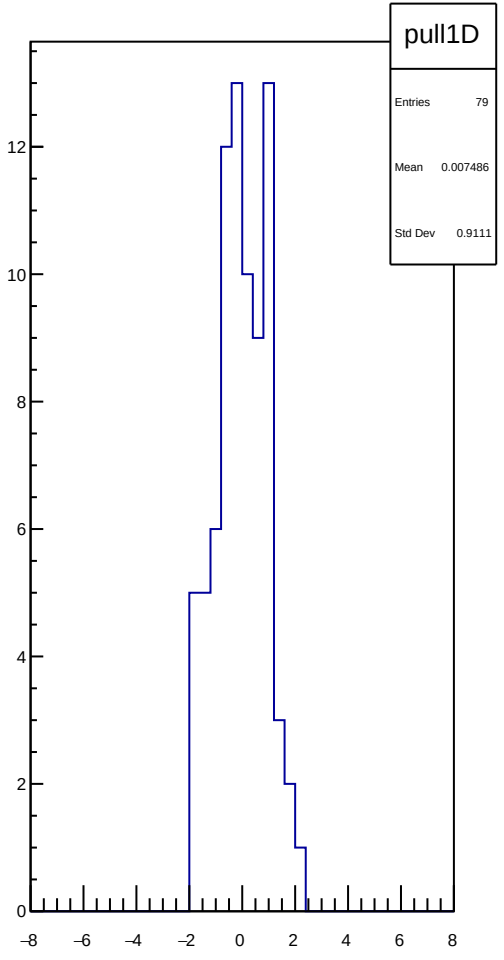

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3541 / 78
p0 0.01685 ± 1.362e–05
0.019
0.0185
0.018
0.0175
0.017
0.0165
0.016
0.0155
0.015

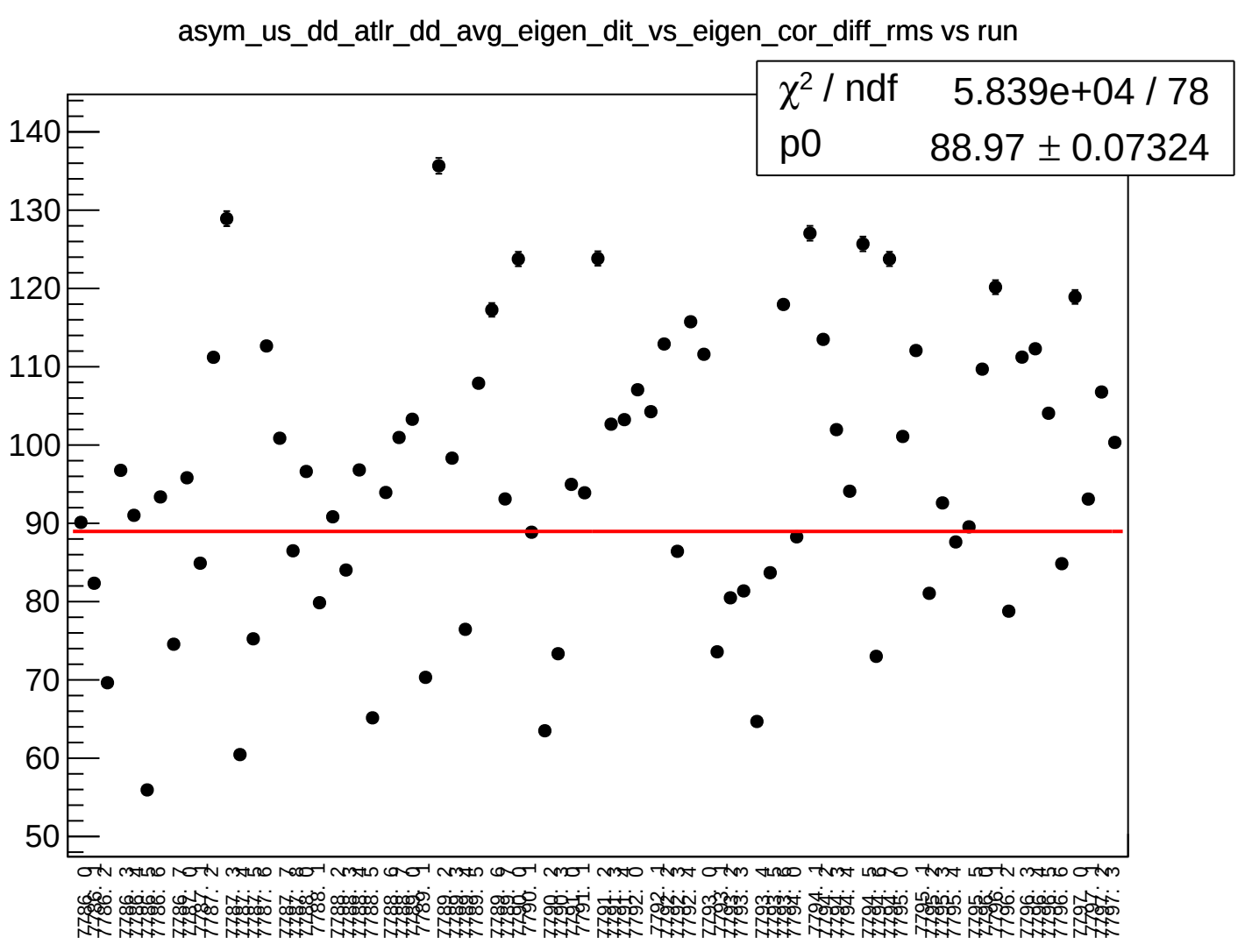

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.59 / 78
p0 −0.2184 ± 0.1036
pull
Entries 79
Mean 492.8
Std Dev 0

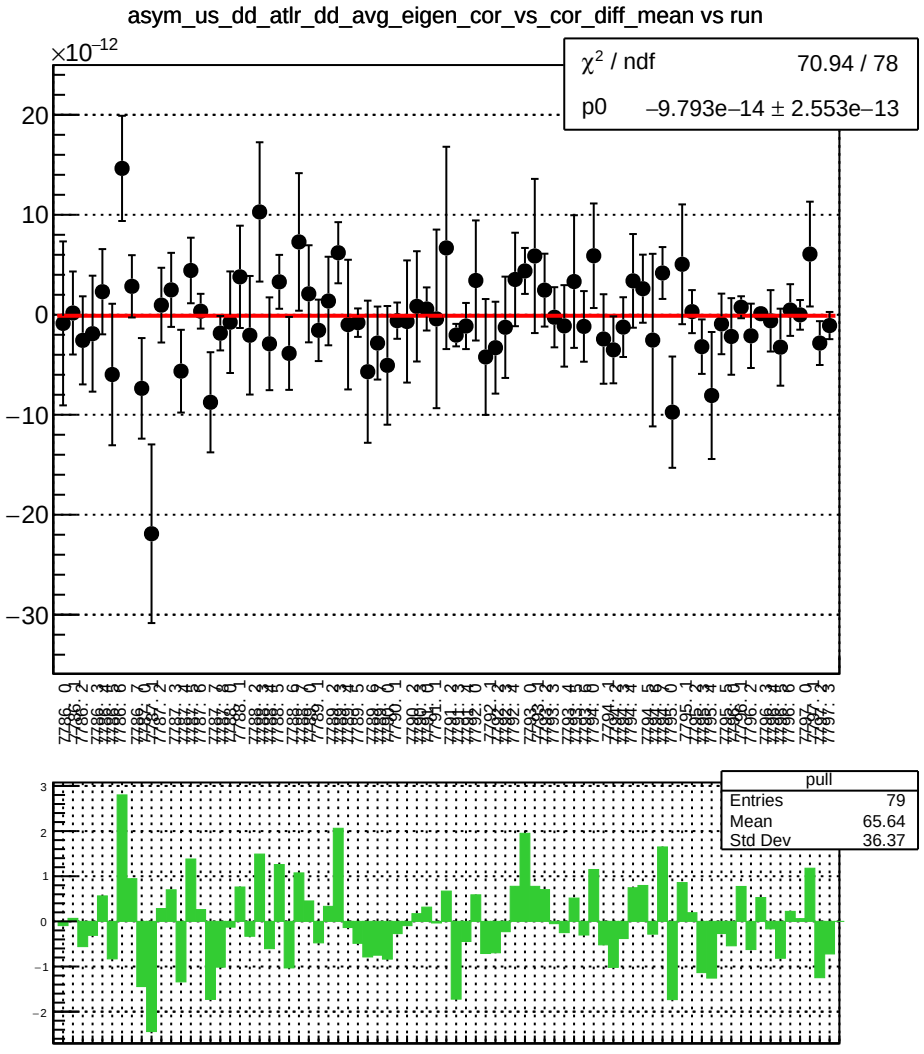

pull1D
Entries 79
Mean 0.007486
Std Dev 0.9111

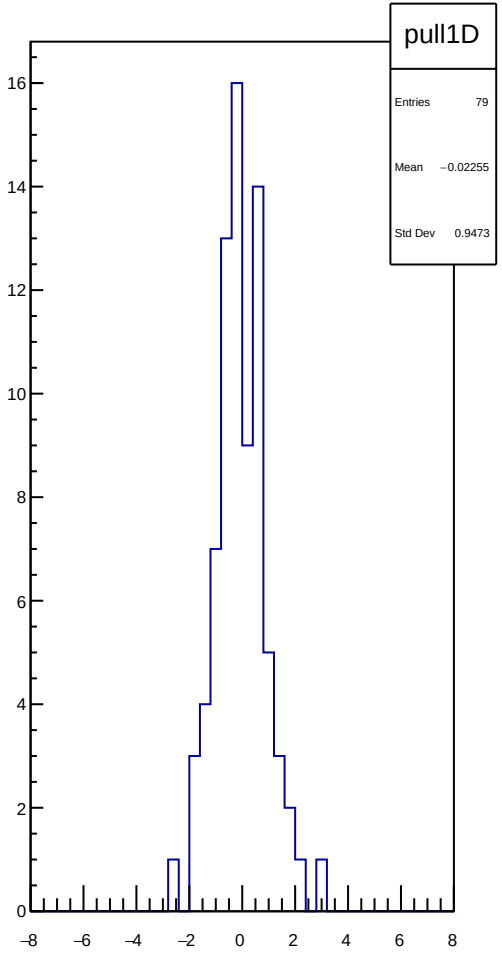

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.839e+04 / 78
p0 88.97 ± 0.07324
140
130
120
110
100
90
80
70
60
50

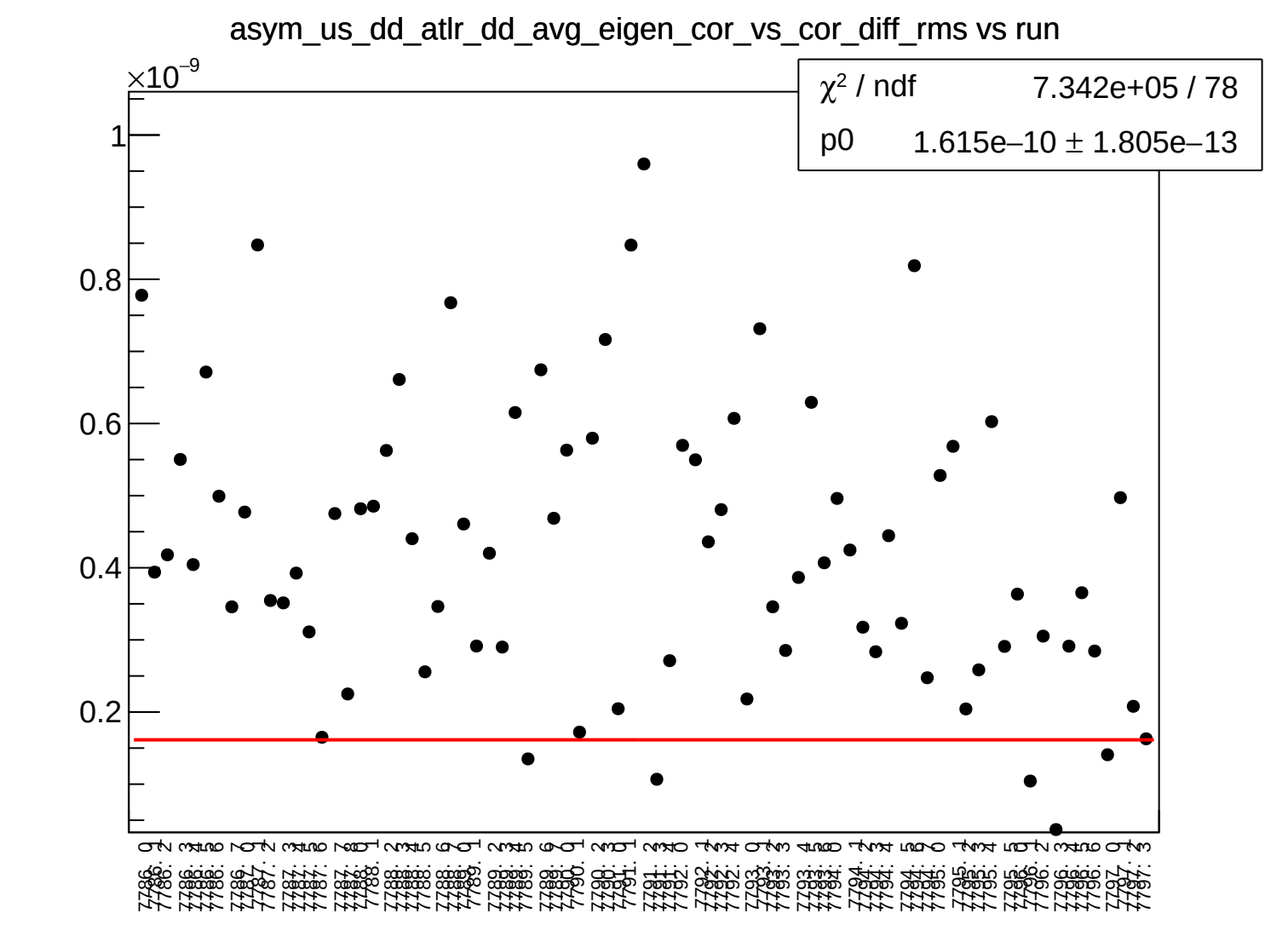

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.59 / 78
p0 −0.2184 ± 0.1036
pull
Entries 79
Mean 492.8
Std Dev 0

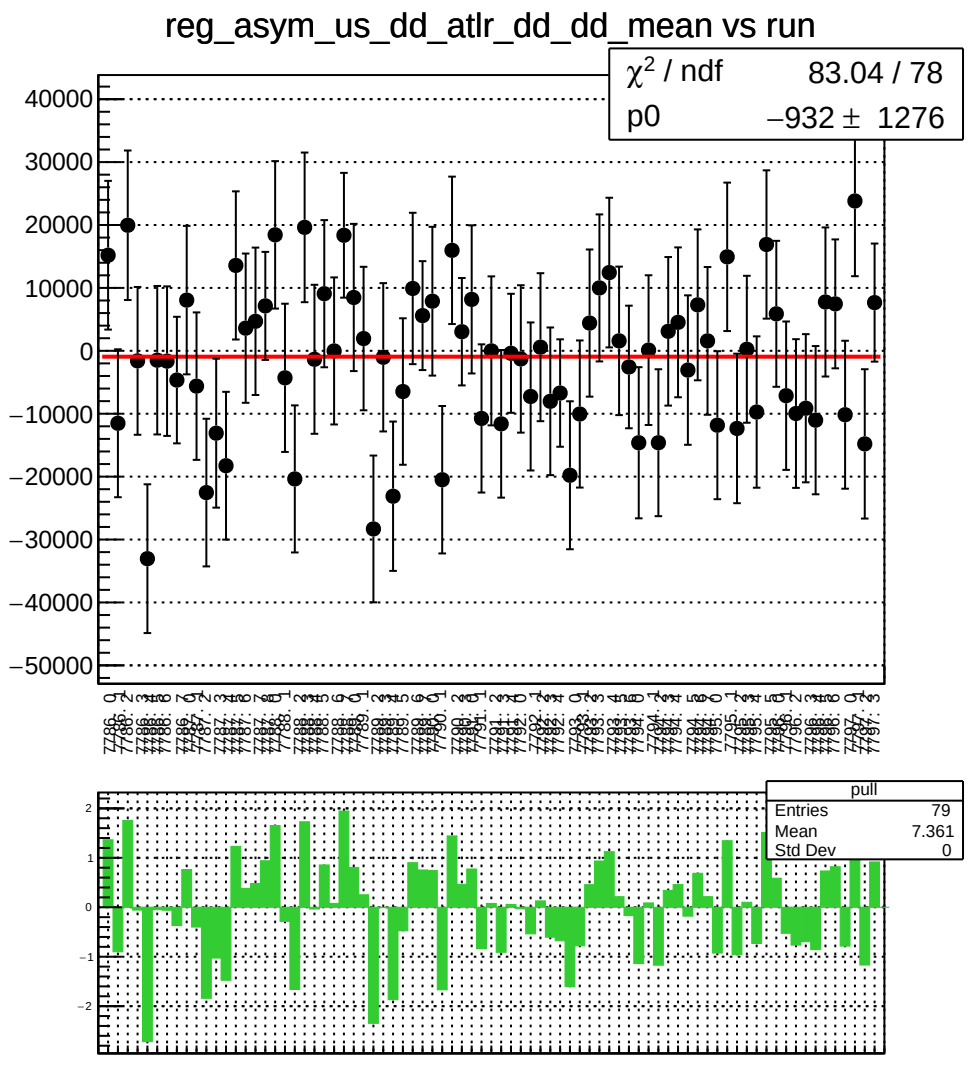

pull1D
Entries 79
Mean 0.007486
Std Dev 0.9111

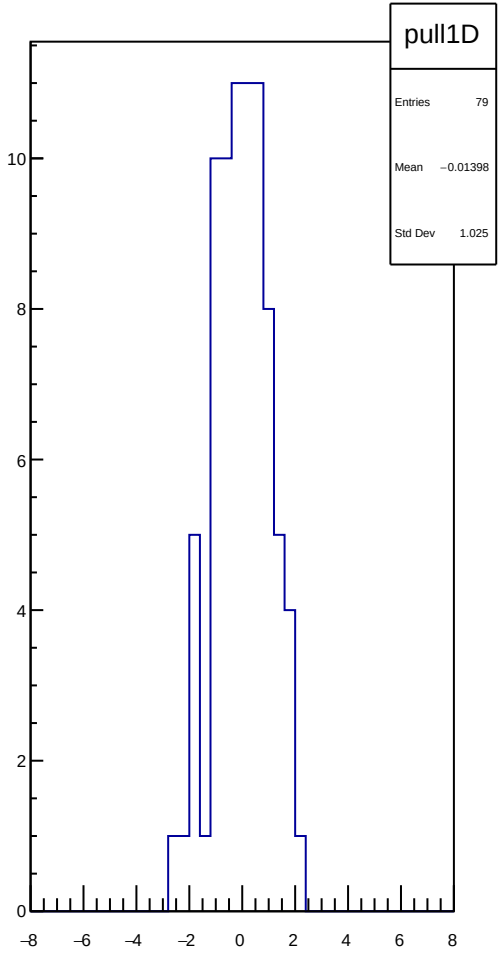

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.839e+04 / 78
p0 88.97 ± 0.07324
140
130
120
110
100
90
80
70
60
50

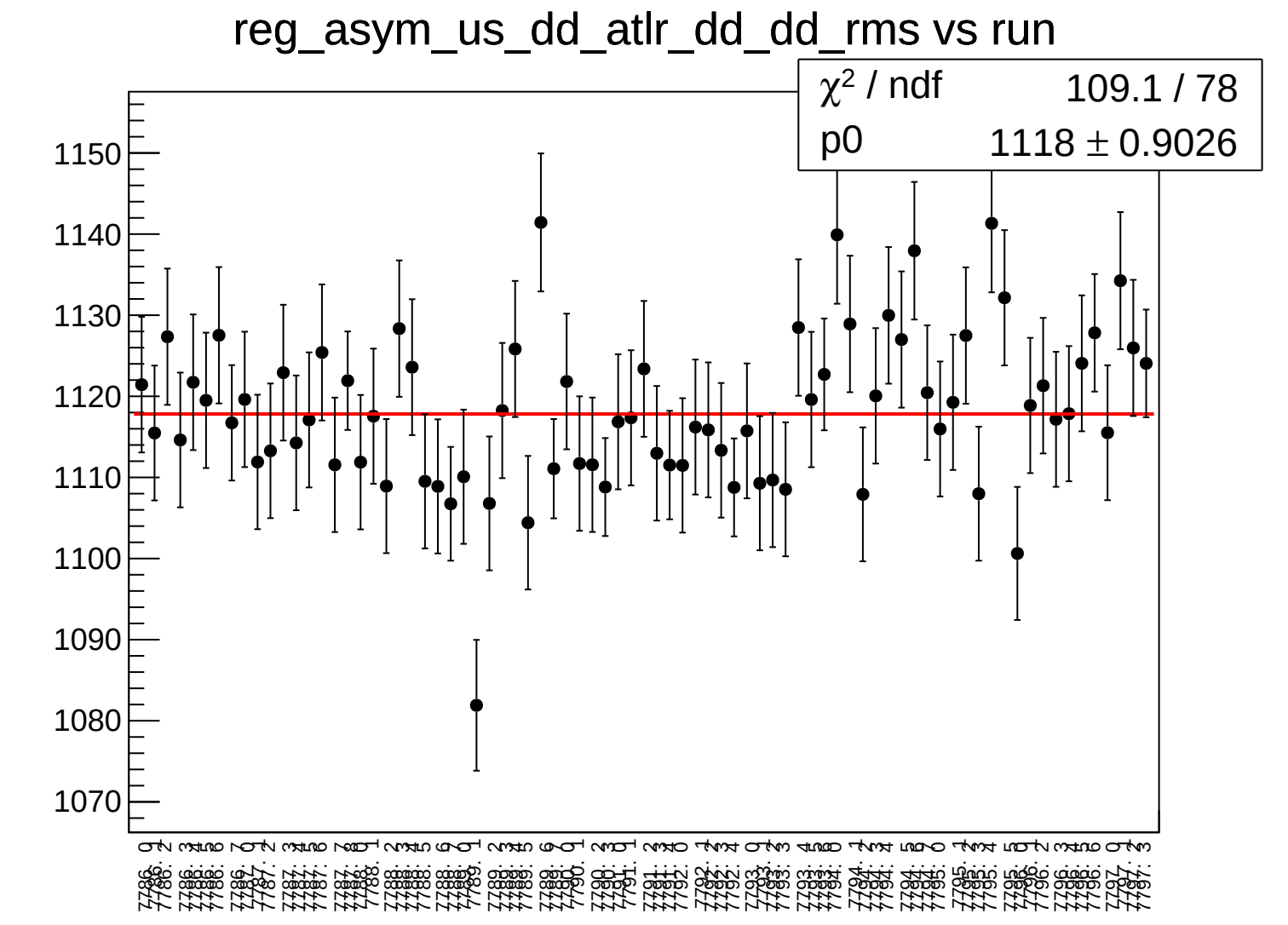

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.94 / 78
p0 −9.793e−14 ± 2.553e−13
pull
Entries 79
Mean 65.64
Std Dev 36.37

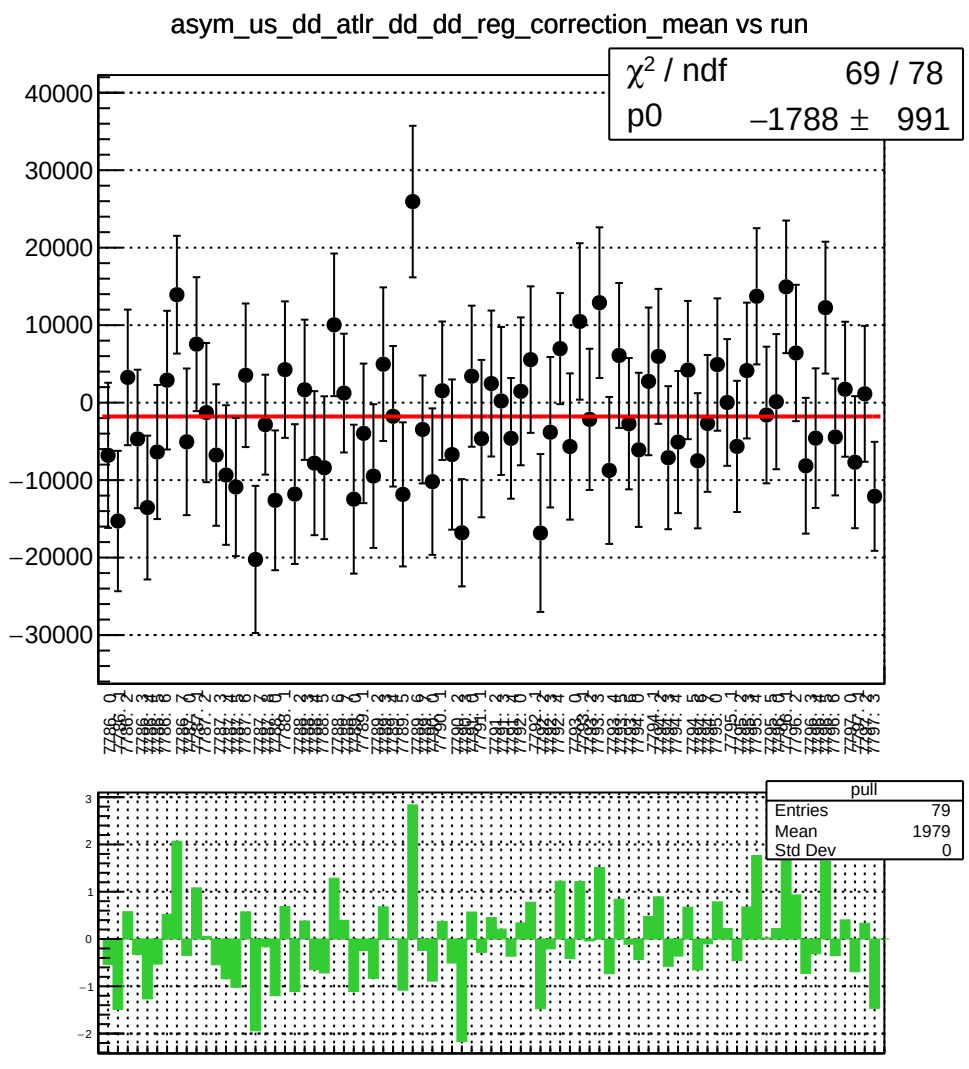

pull1D
Entries 79
Mean −0.02255
Std Dev 0.9473

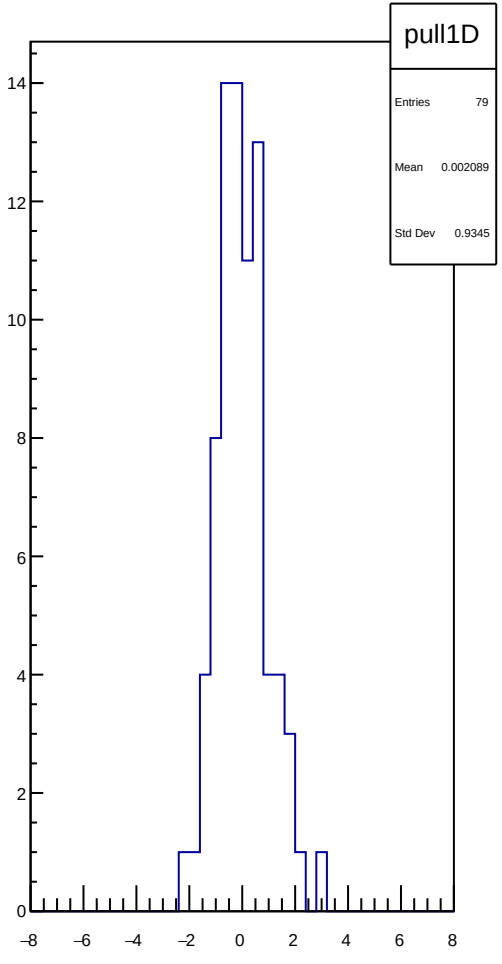

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.342e+05 / 78
p0 1.615e−10 ± 1.805e−13
1
0.8
0.6
0.4
0.2

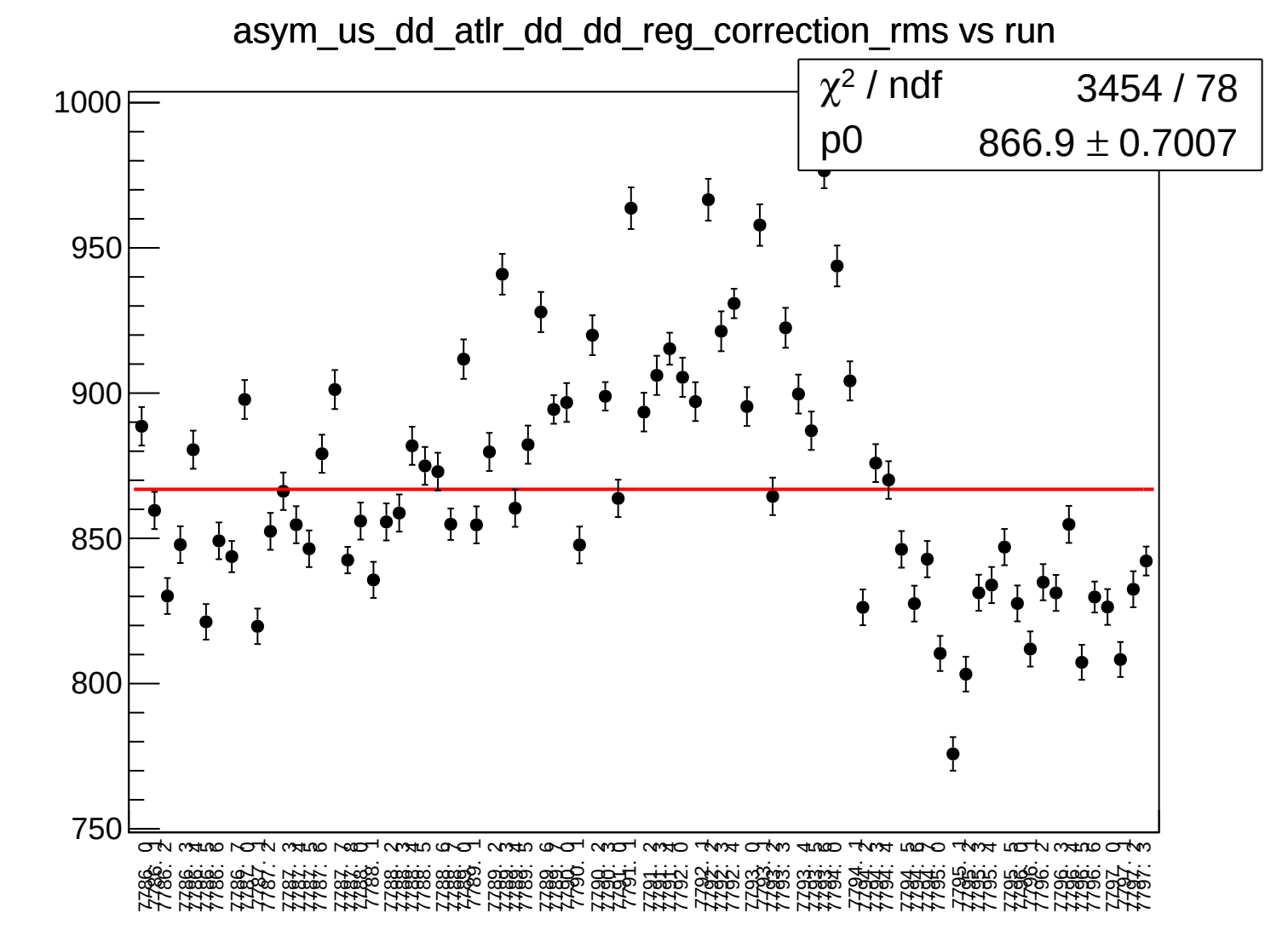

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.04 / 78
p0 −932 ± 1276
pull
Entries 79
Mean 7.361
Std Dev 0

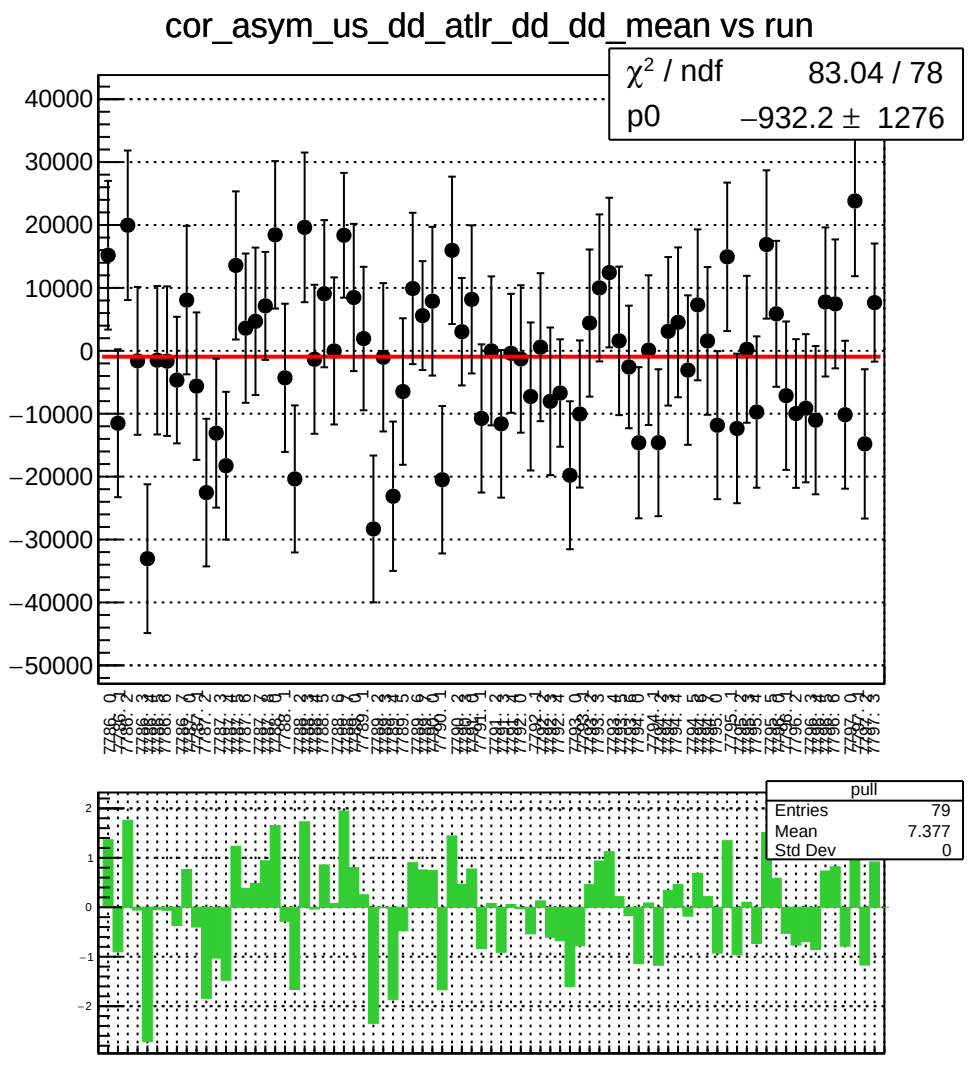

pull1D
Entries 79
Mean −0.01398
Std Dev 1.025

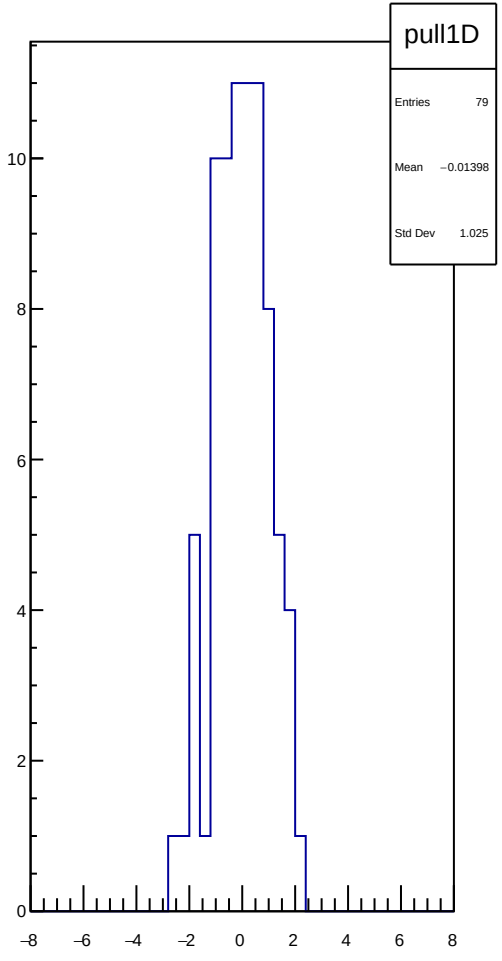

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 109.1 / 78
p0 1118 ± 0.9026
1150
1140
1130
1120
1110
1100
1090
1080
1070

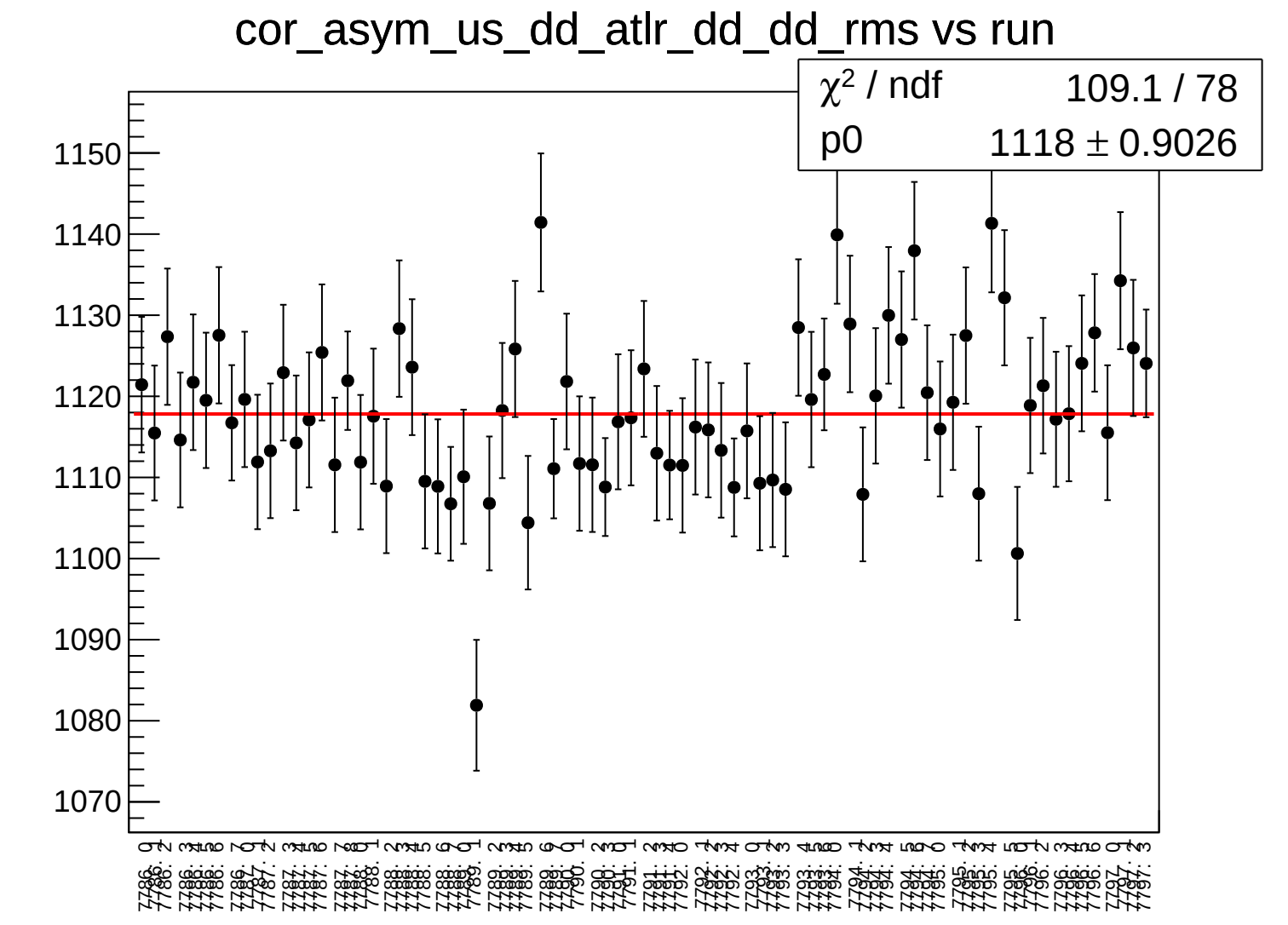

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 69 / 78
p0 −1788 ± 991
pull
Entries 79
Mean 1979
Std Dev 0

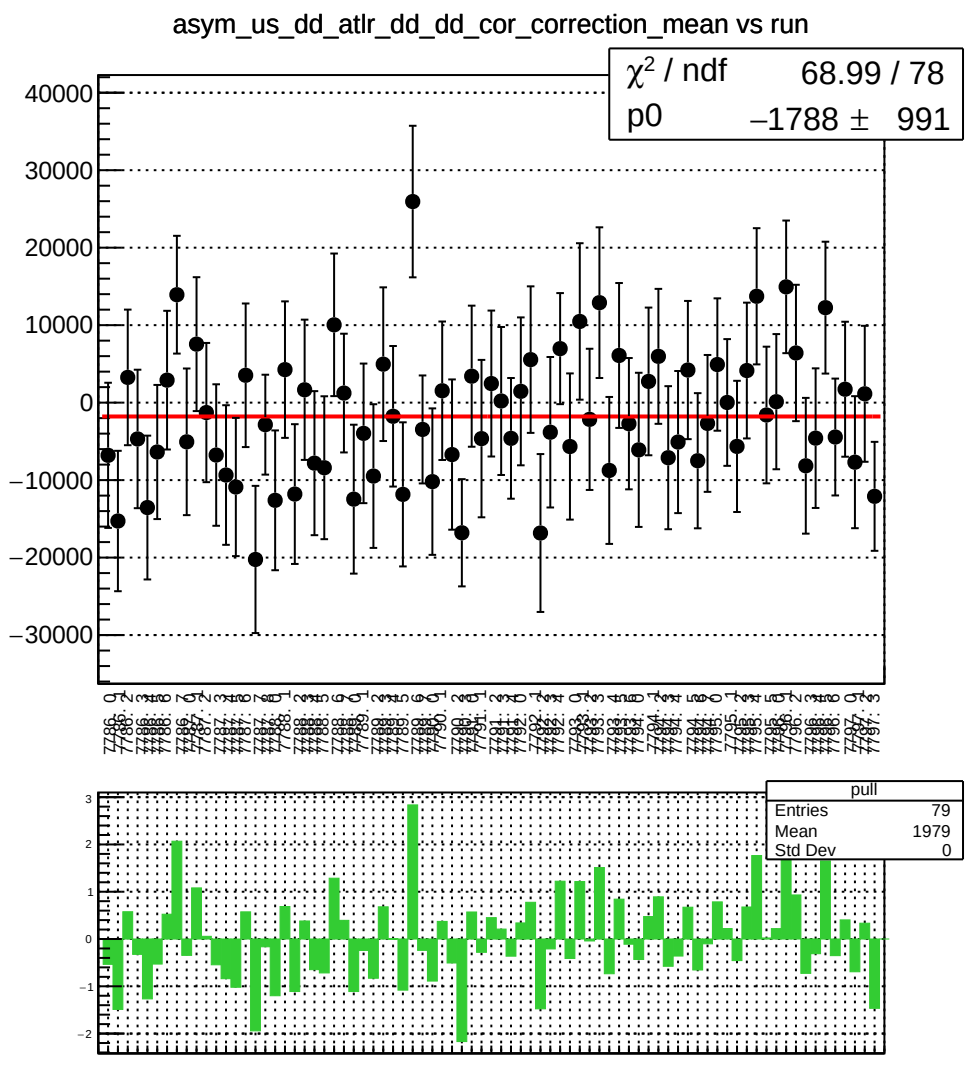

pull1D
Entries 79
Mean 0.002089
Std Dev 0.9345

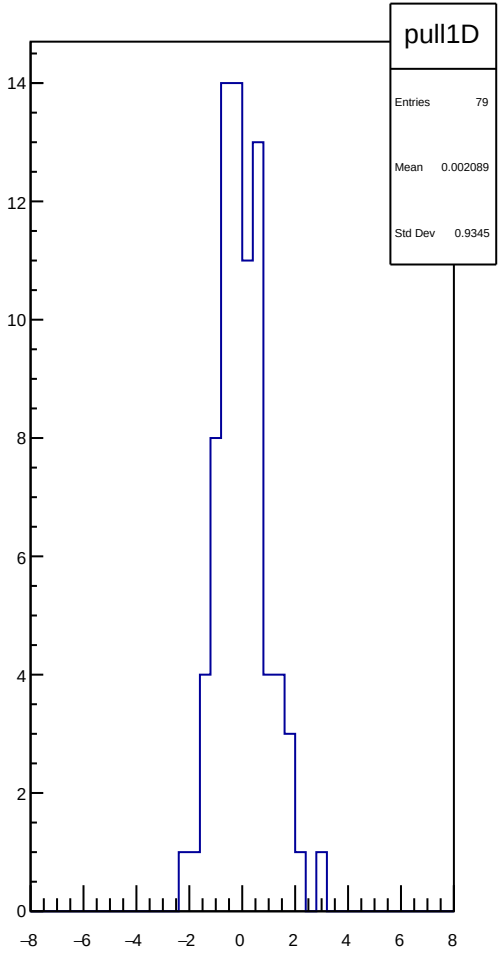

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 3454 / 78
p0 866.9 ± 0.7007
1000
950
900
850
800
750

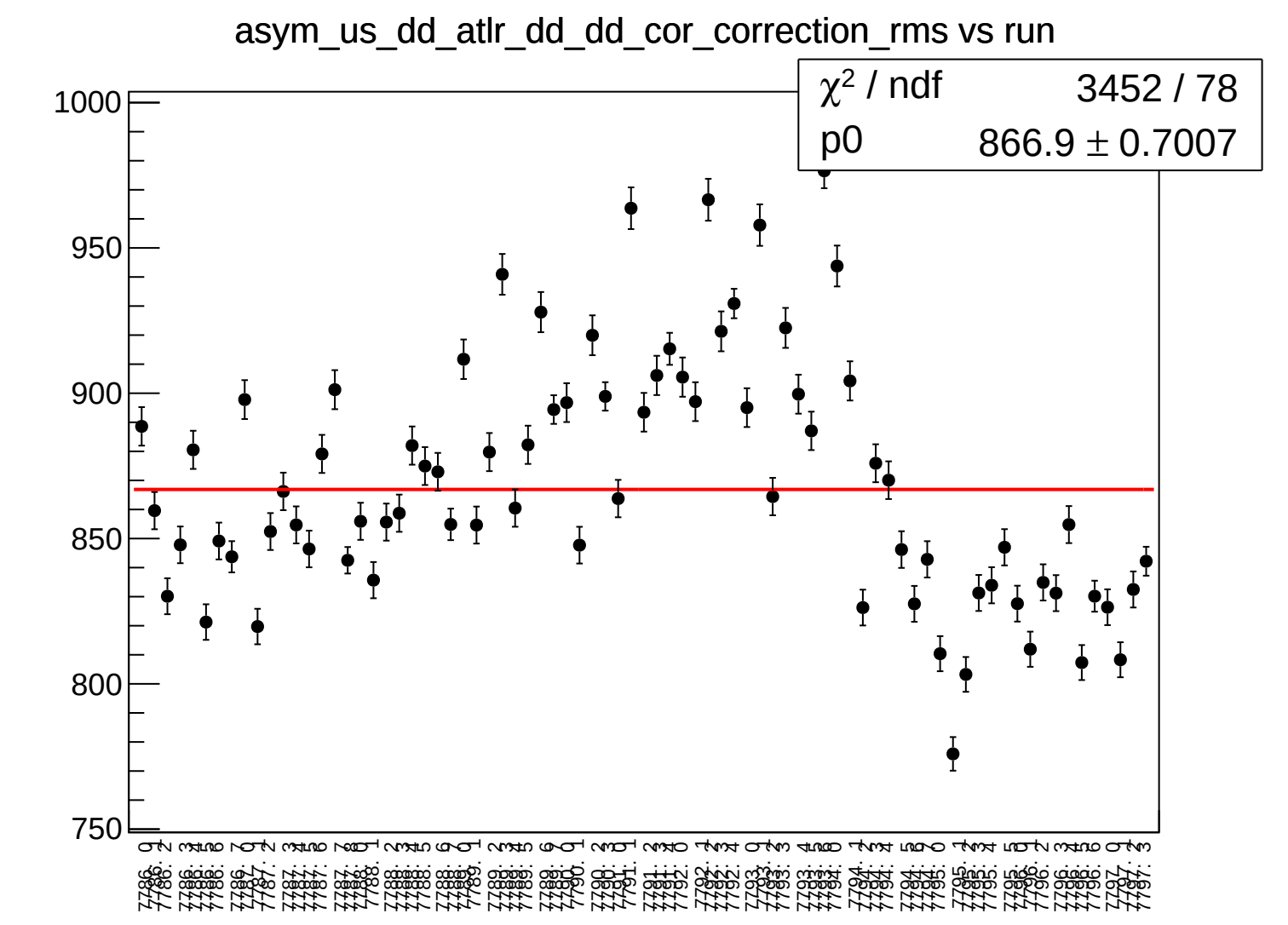

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.04 / 78
p0 −932.2 ± 1276
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 79
Mean 7.377
Std Dev 0
2
1
0
−1
−2

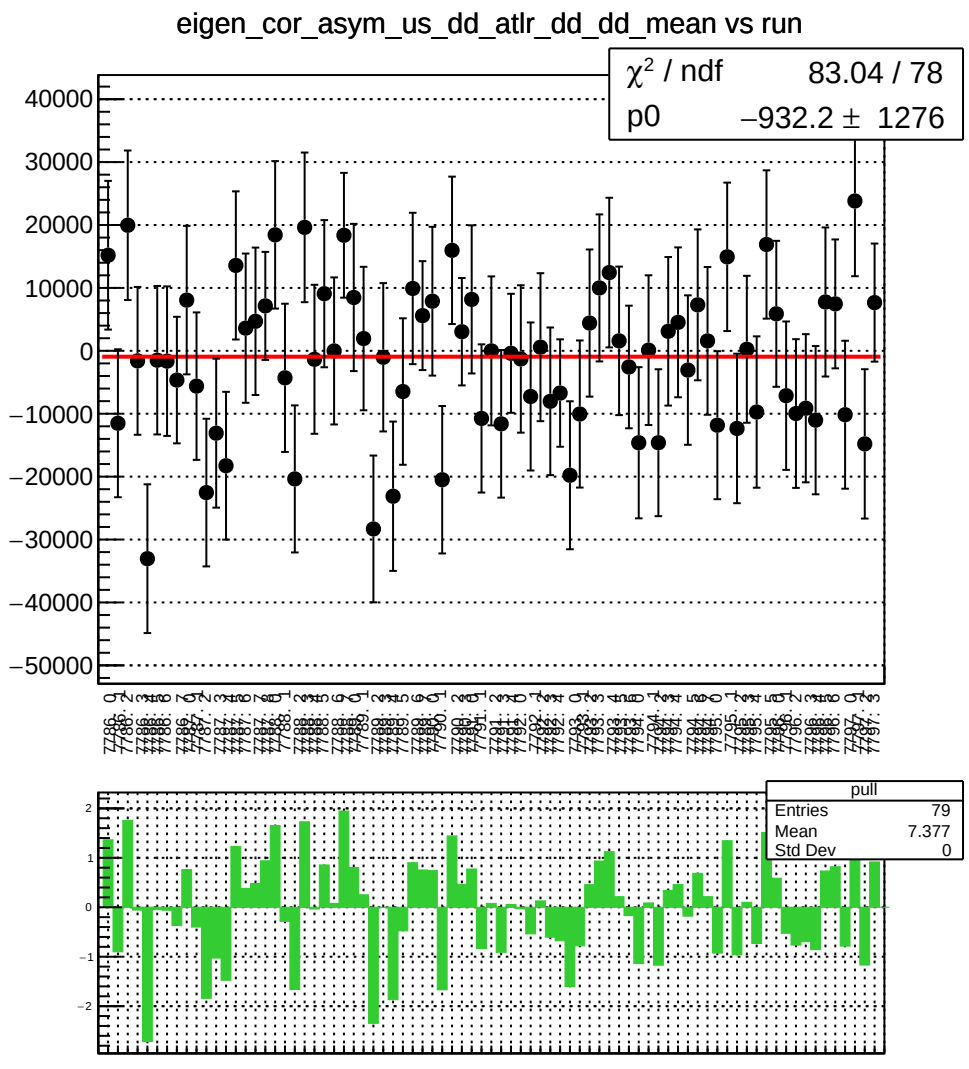

pull1D
Entries 79
Mean −0.01398
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

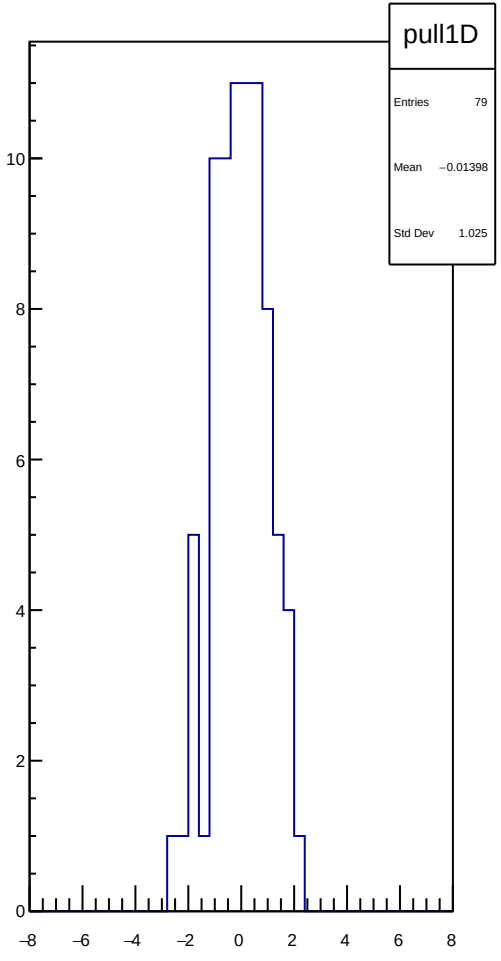

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 109.1 / 78
p0 1118 ± 0.9026
1150
1140
1130
1120
1110
1100
1090
1080
1070

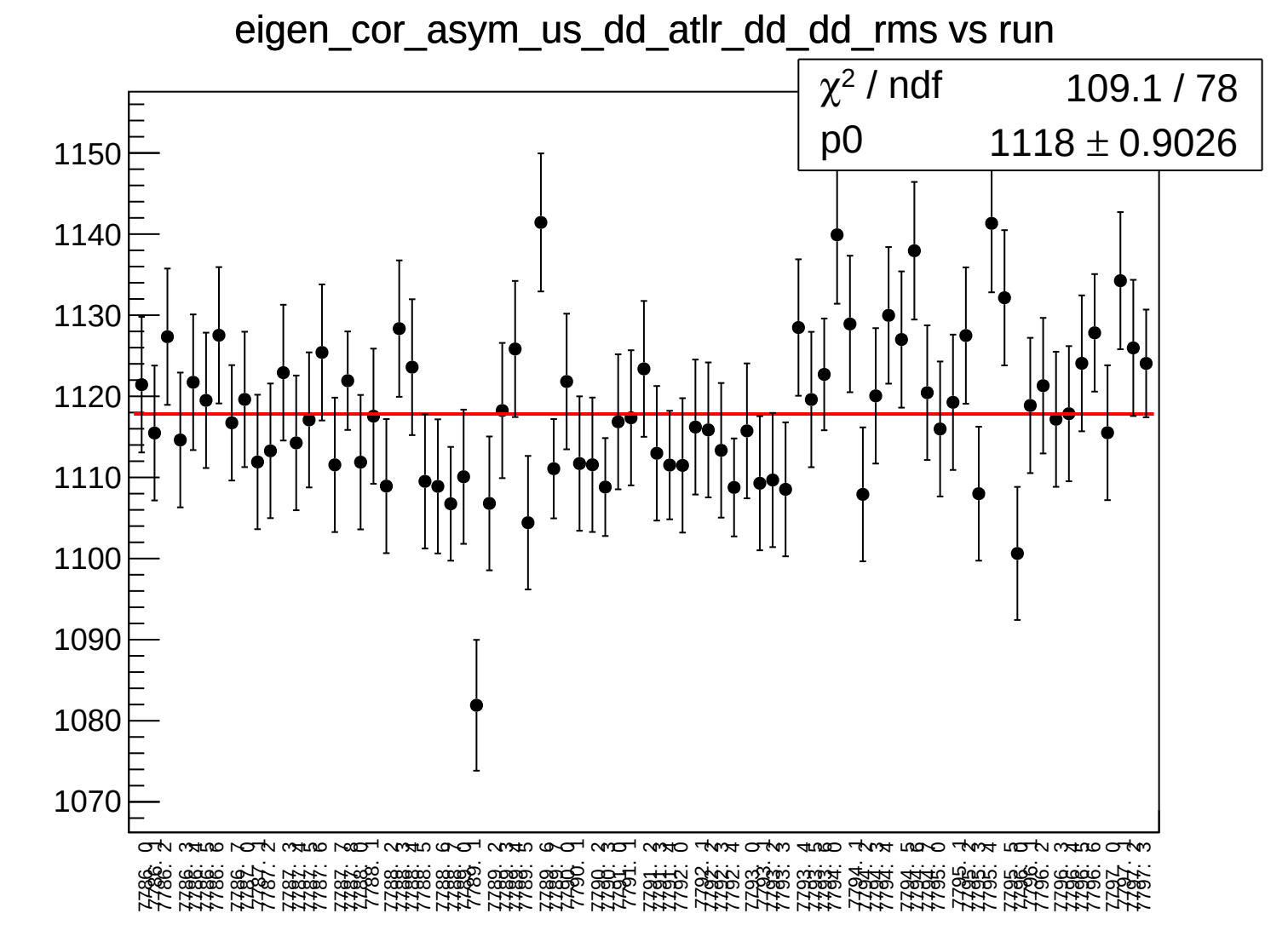

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 68.99 / 78
p0 −1788 ± 991
pull
Entries 79
Mean 1979
Std Dev 0

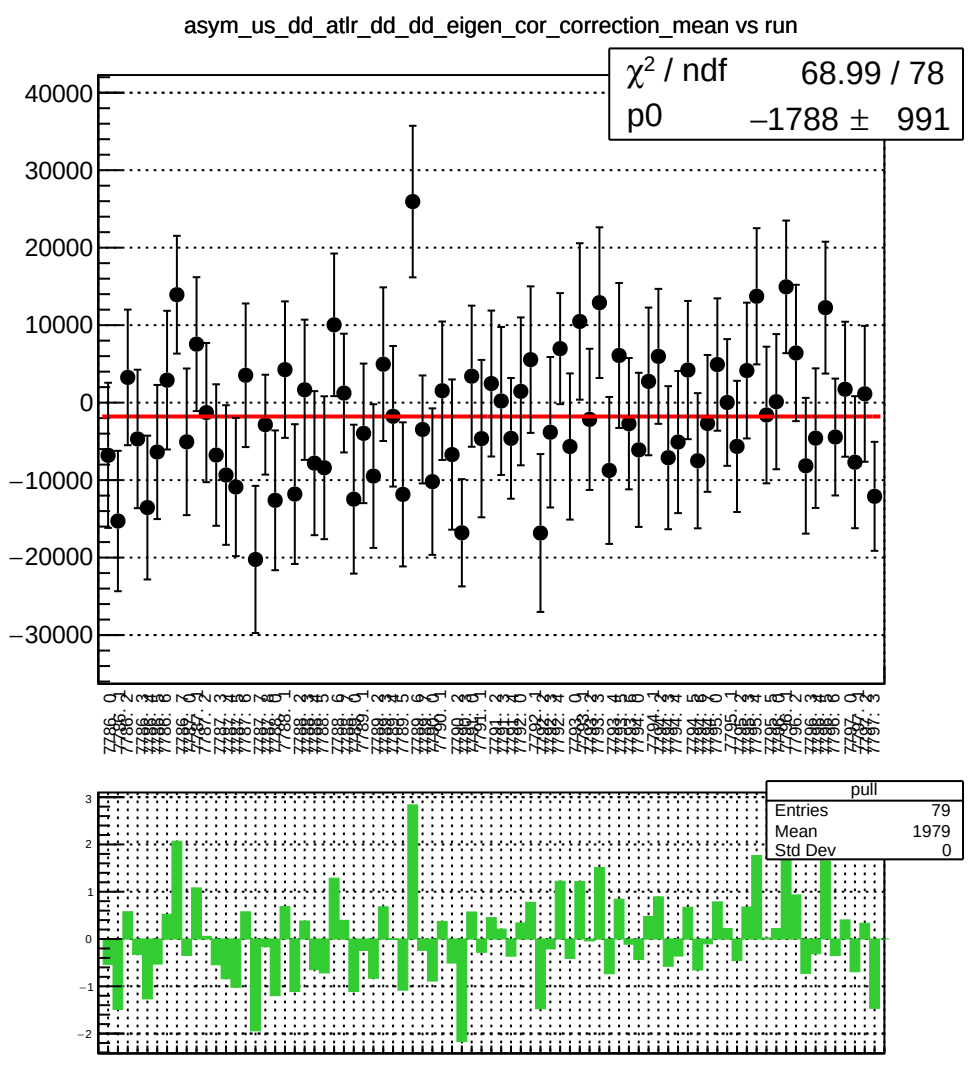

pull1D
Entries 79
Mean 0.002089
Std Dev 0.9345

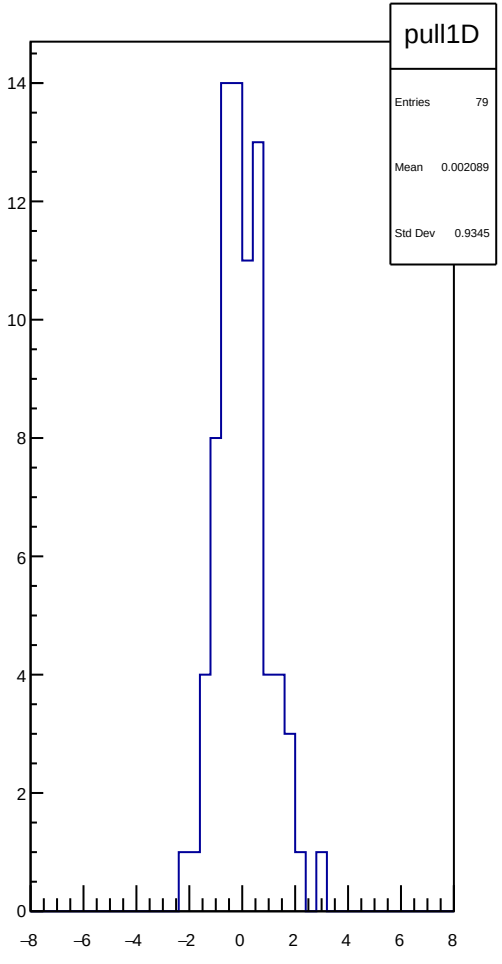

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 3452 / 78
p0 866.9 ± 0.7007
1000
950
900
850
800
750

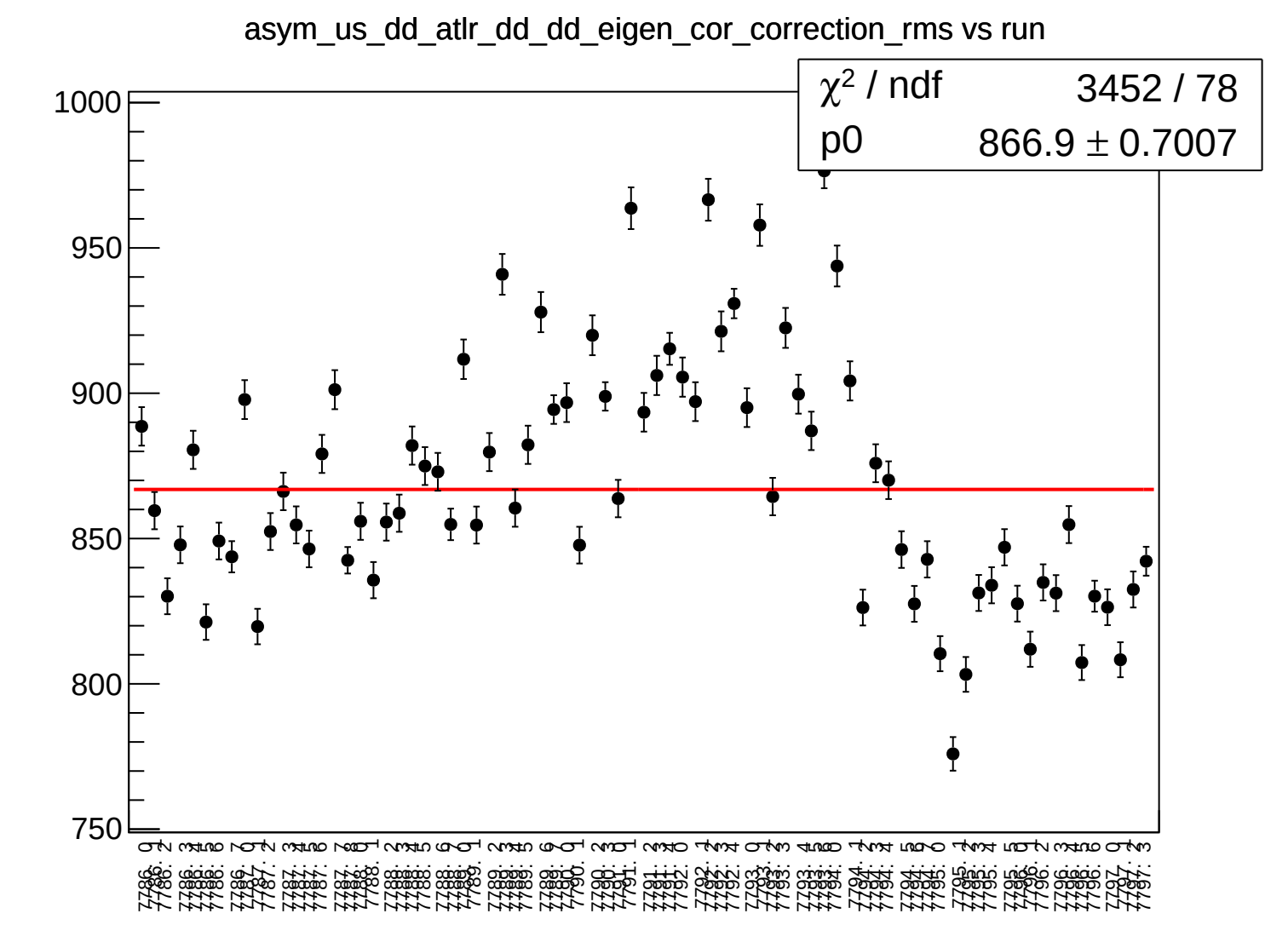

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.04 / 78
p0 −932.2 ± 1276
pull
Entries 79
Mean 7.377
Std Dev 0

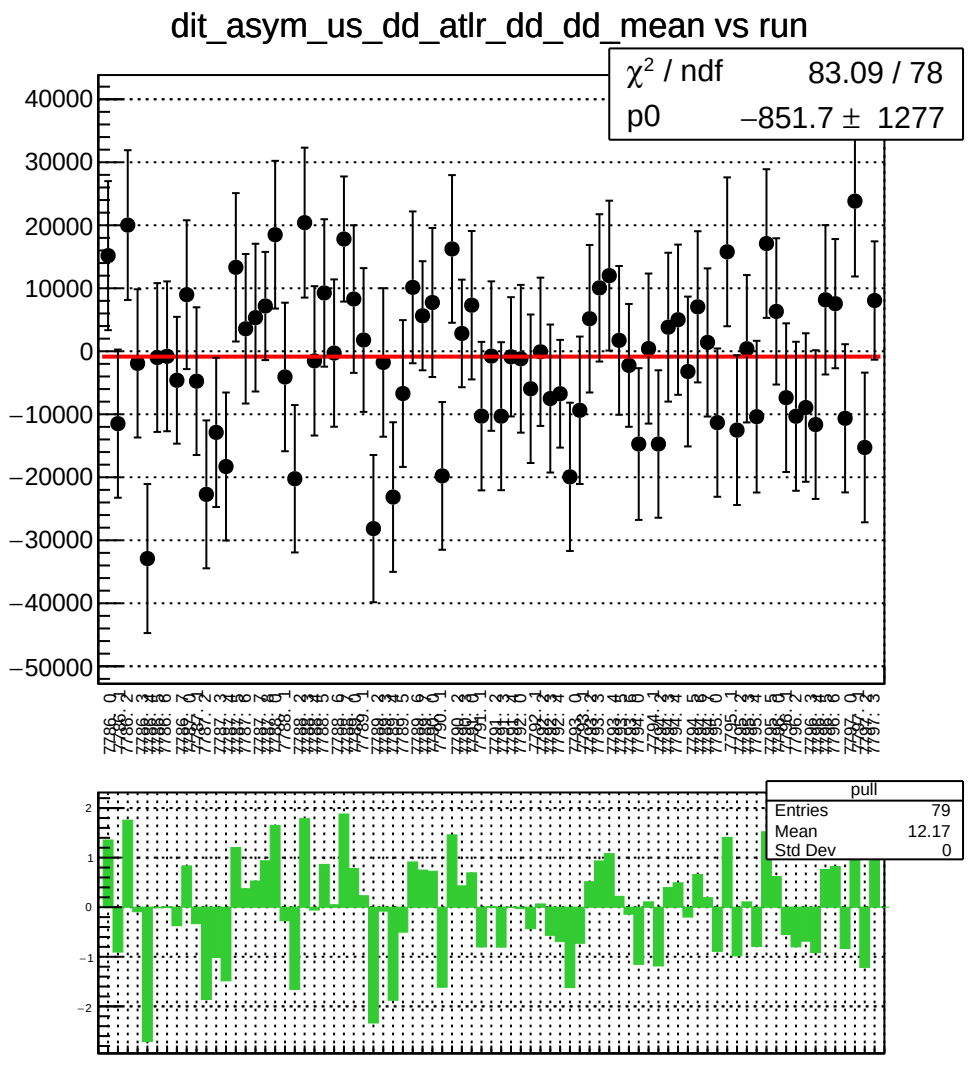

pull1D
Entries 79
Mean −0.01398
Std Dev 1.025

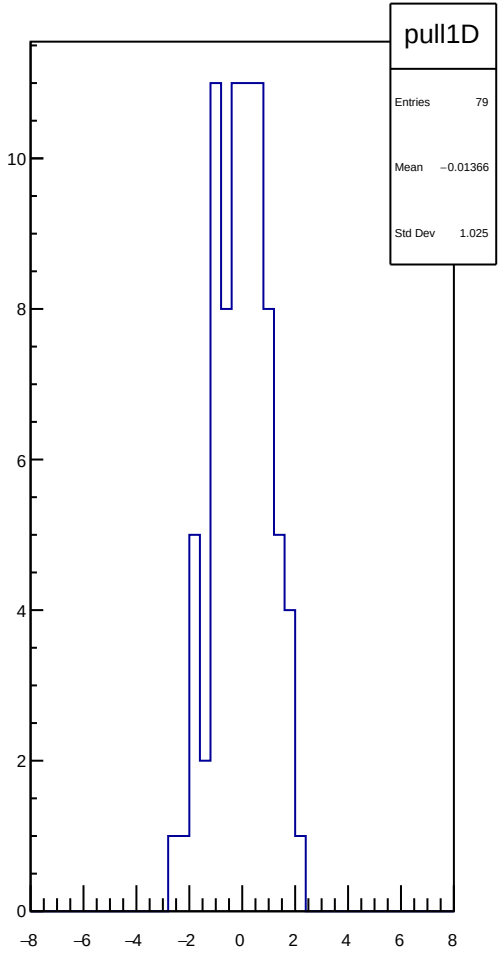

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 109.1 / 78
p0 1118 ± 0.9026
1150
1140
1130
1120
1110
1100
1090
1080
1070

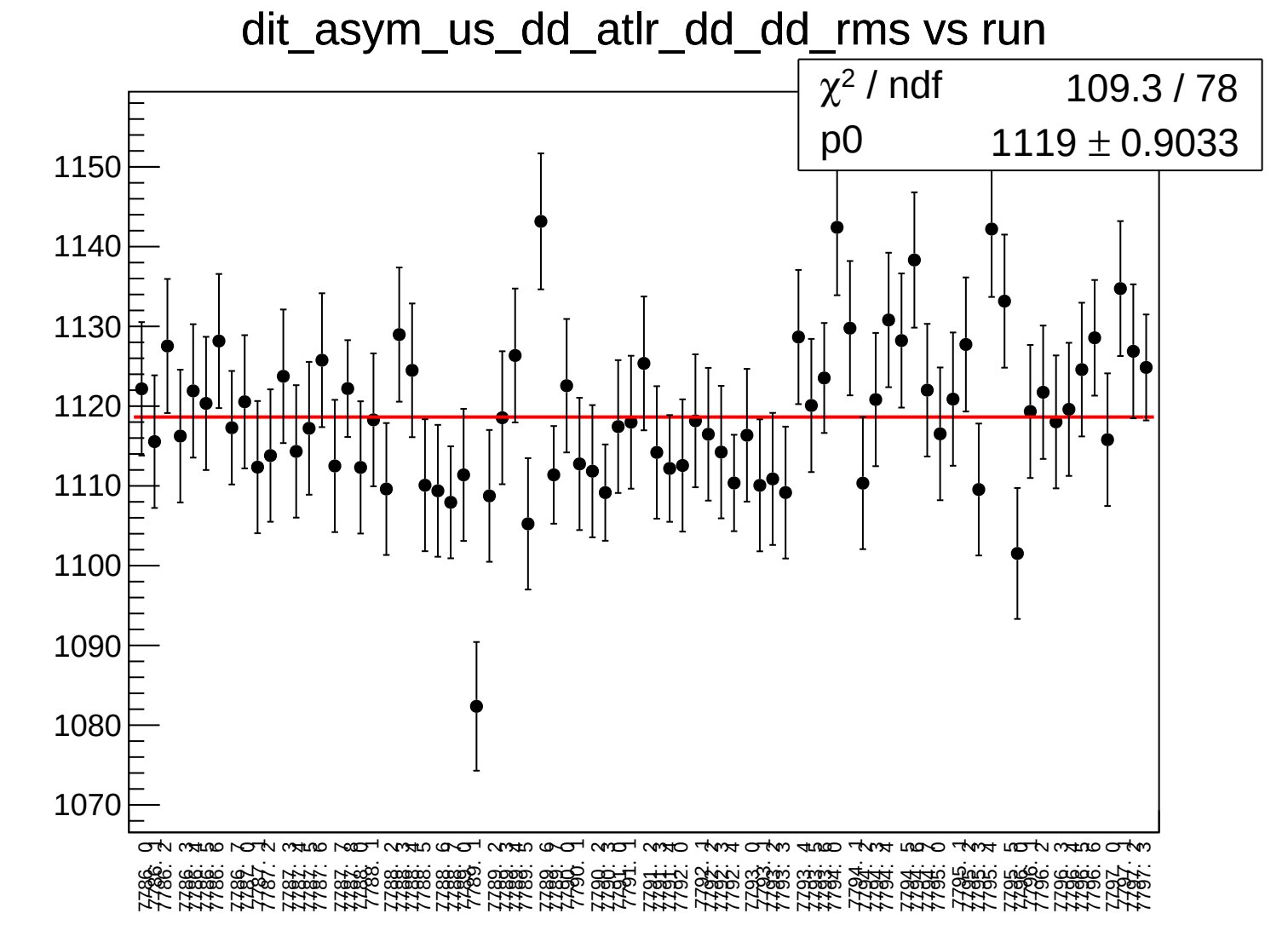

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.99 / 78
p0 −1788 ± 991
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean 1979
Std Dev 0
3
2
1
0
−1
−2

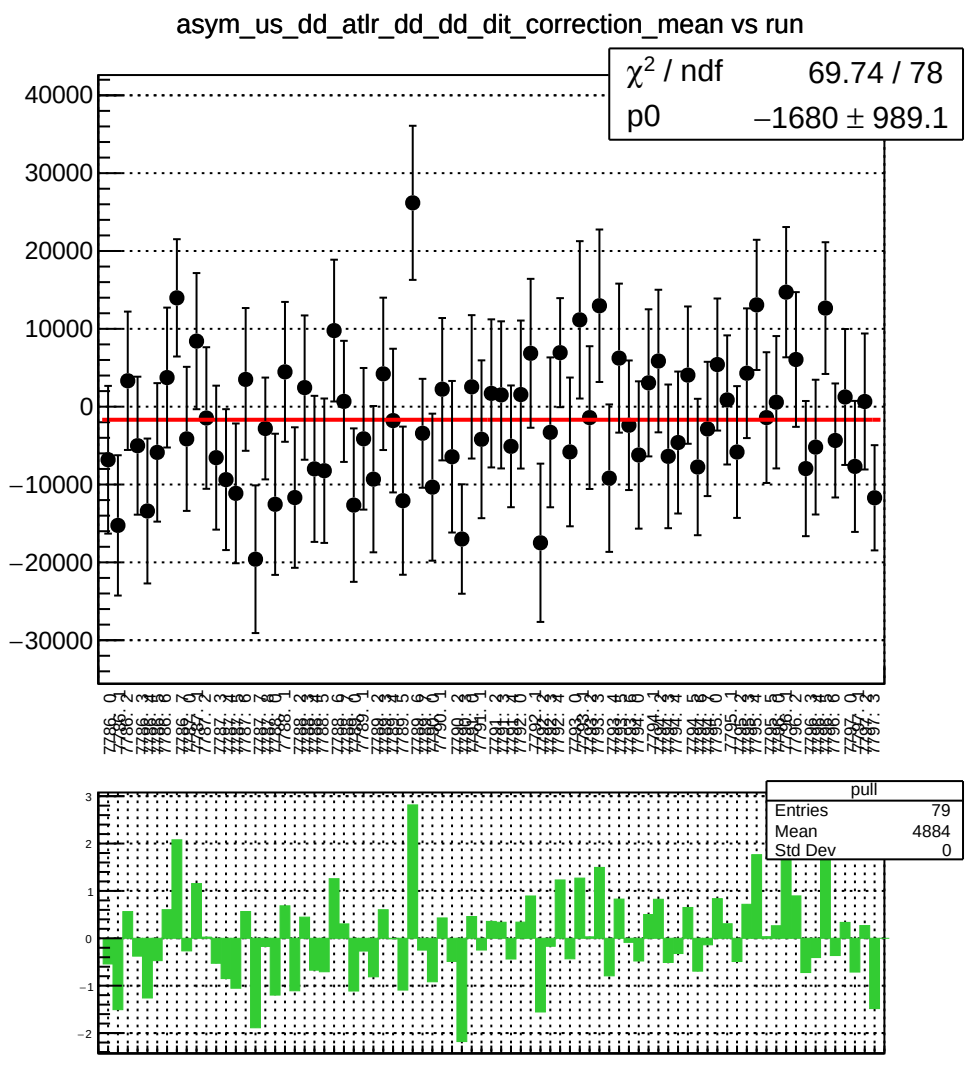

pull1D
Entries 79
Mean 0.002089
Std Dev 0.9345
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

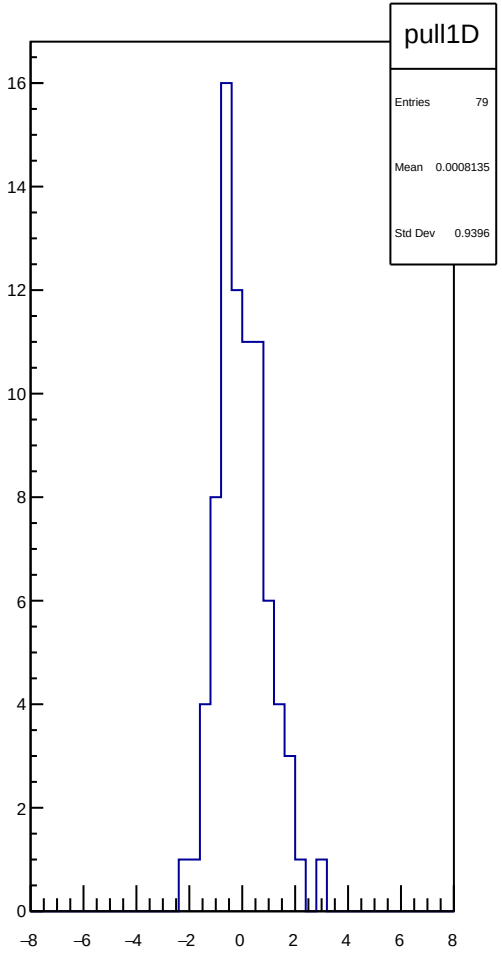

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3452 / 78
p0 866.9 ± 0.7007
1000
950
900
850
800
750

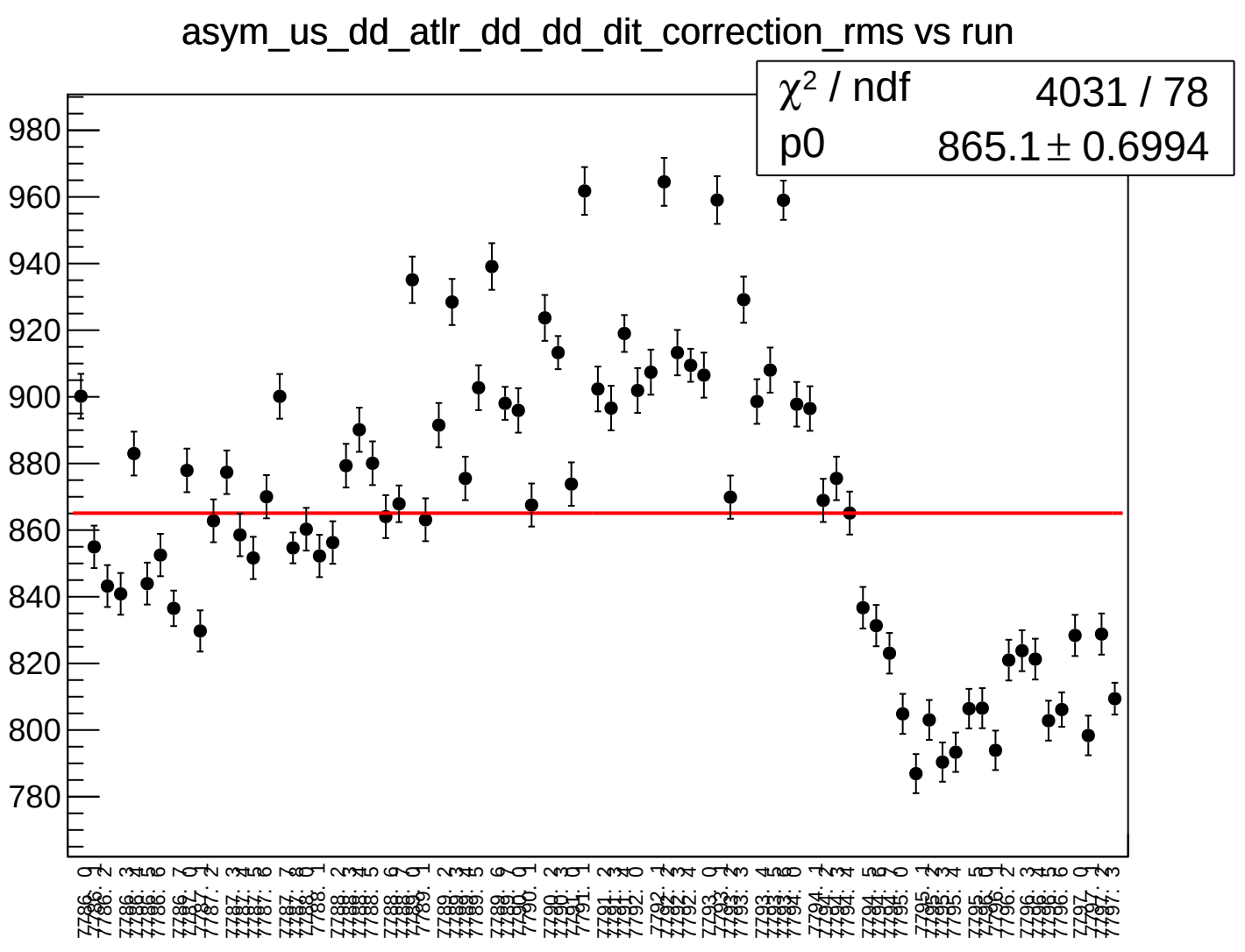

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.09 / 78
p0 −851.7 ± 1277
pull
Entries 79
Mean 12.17
Std Dev 0

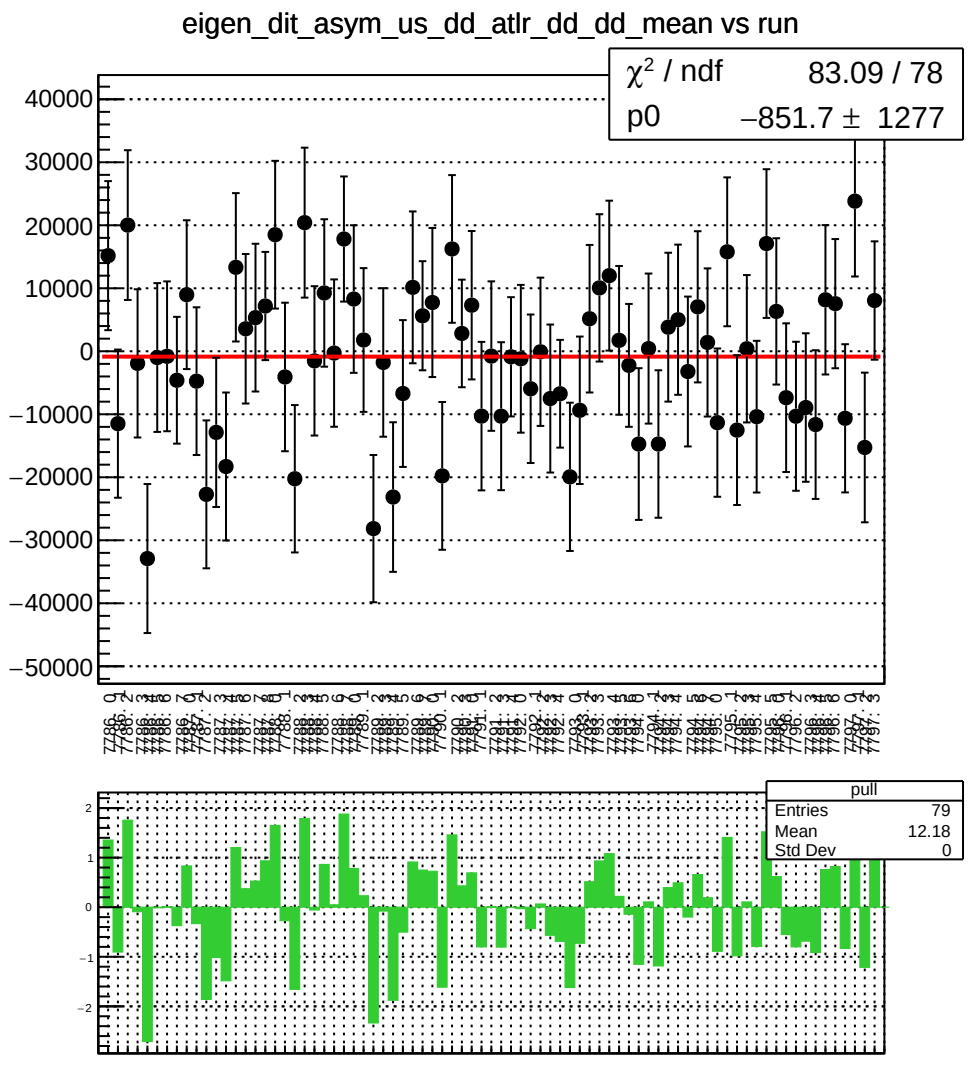

pull1D
Entries 79
Mean −0.01366
Std Dev 1.025

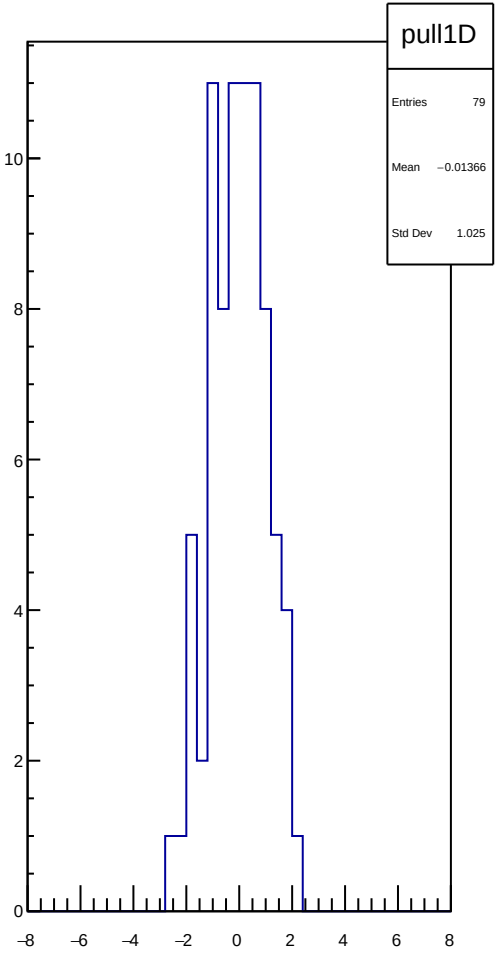

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 109.3 / 78
p0 1119 ± 0.9033
1150
1140
1130
1120
1110
1100
1090
1080
1070

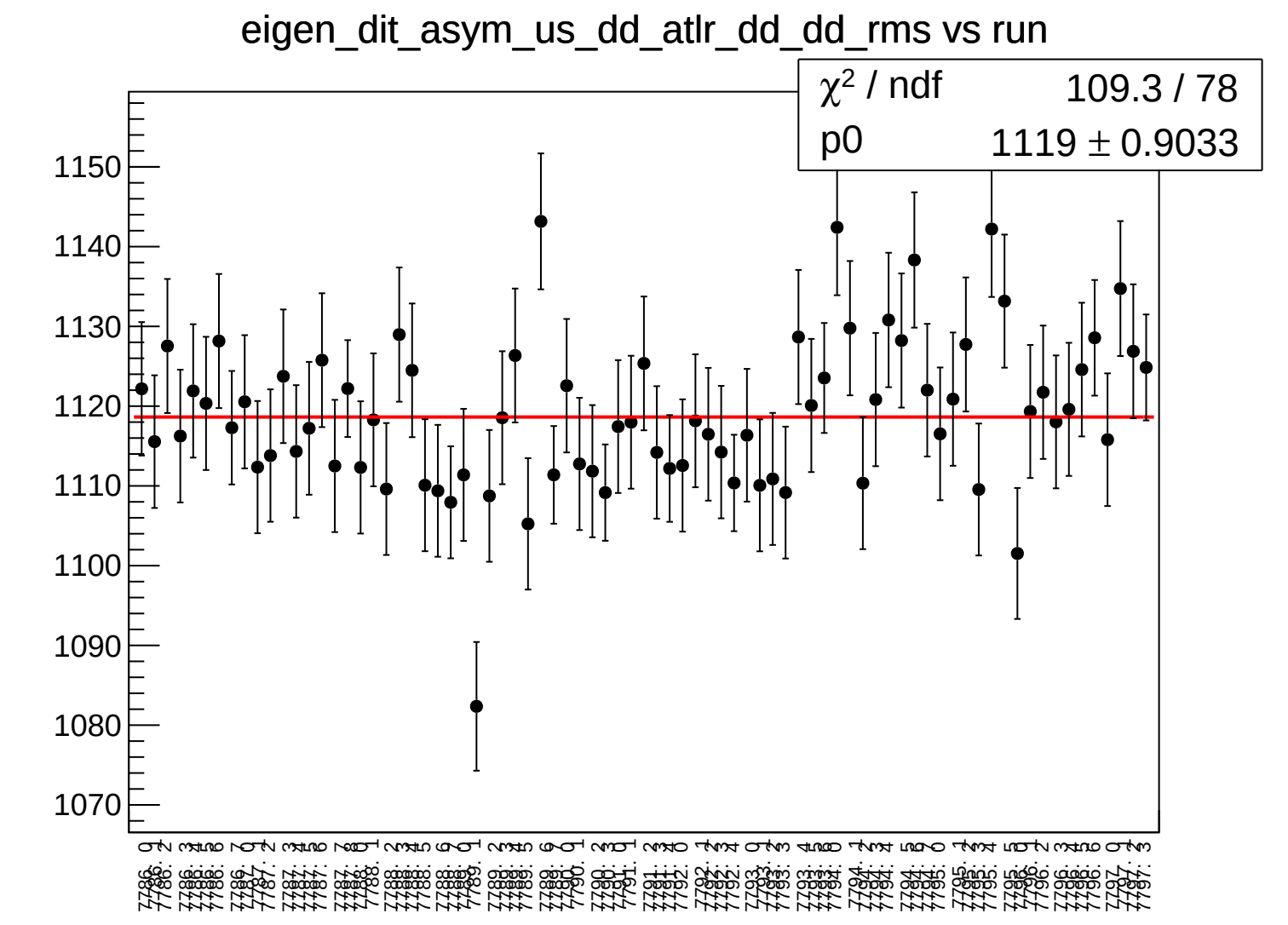

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 69.74 / 78
p0 −1680 ± 989.1
pull
Entries 79
Mean 4884
Std Dev 0

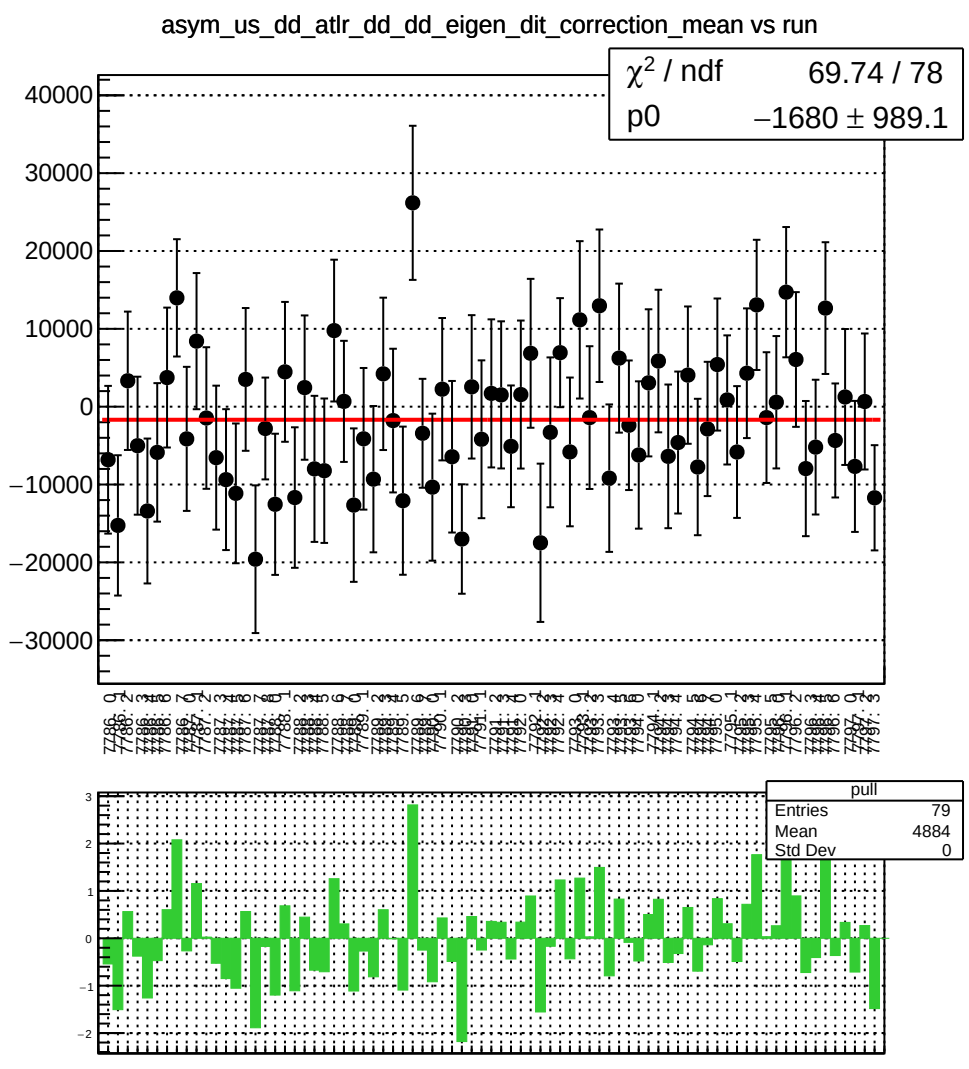

pull1D
Entries 79
Mean 0.0008135
Std Dev 0.9396

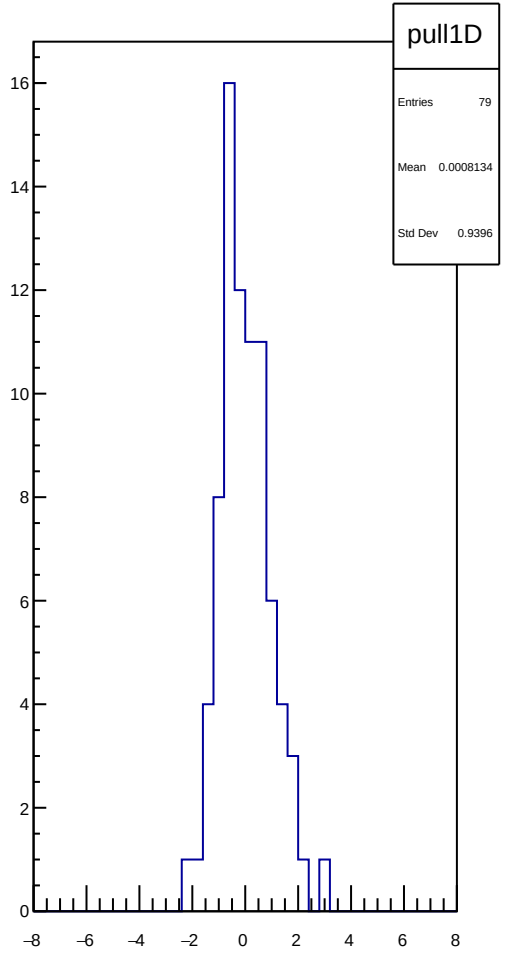

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 4031 / 78
p0 865.1 ± 0.6994
980
960
940
920
900
880
860
840
820
800
780

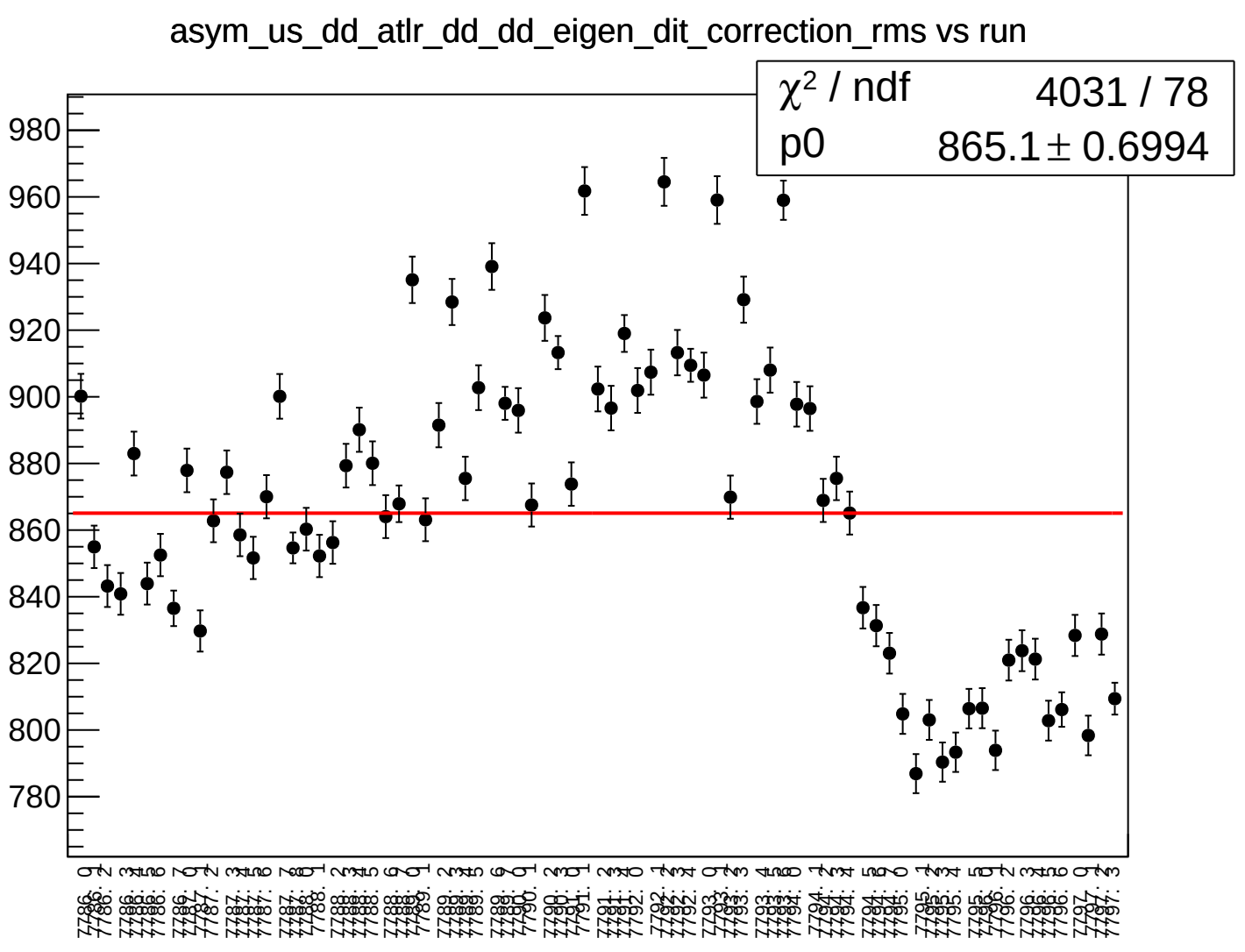

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.09 / 78
p0 −851.7 ± 1277
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 79
Mean 12.18
Std Dev 0
2
1
0
−1
−2

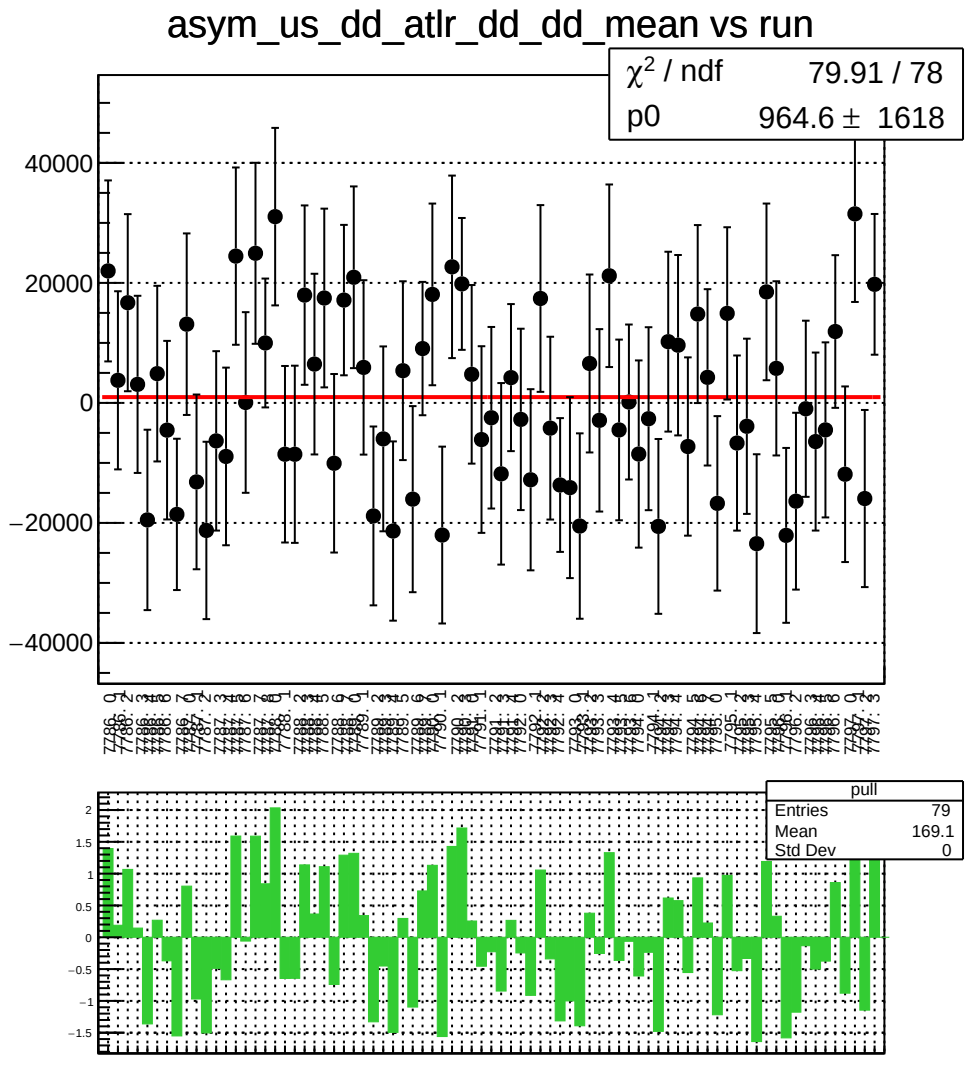

pull1D
Entries 79
Mean −0.01366
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

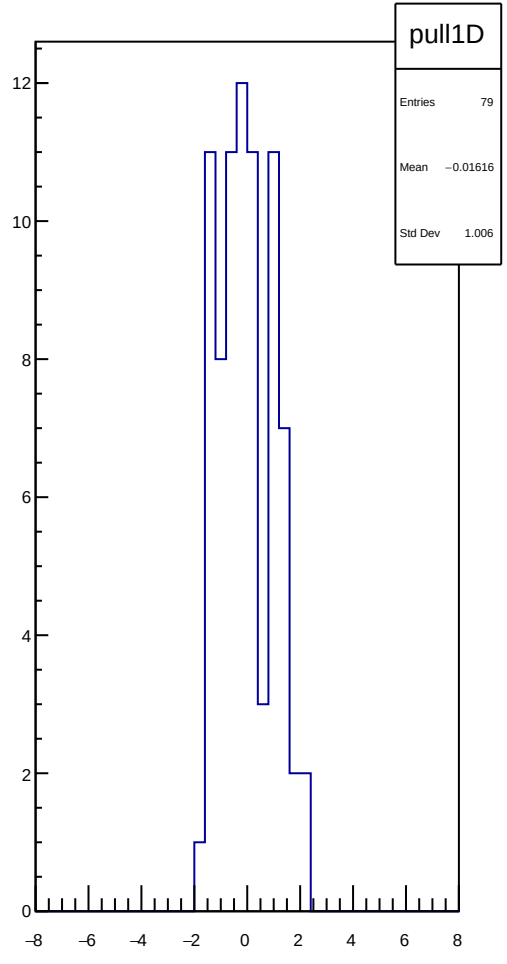

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 109.3 / 78
p0 1119 ± 0.9033
1150
1140
1130
1120
1110
1100
1090
1080
1070

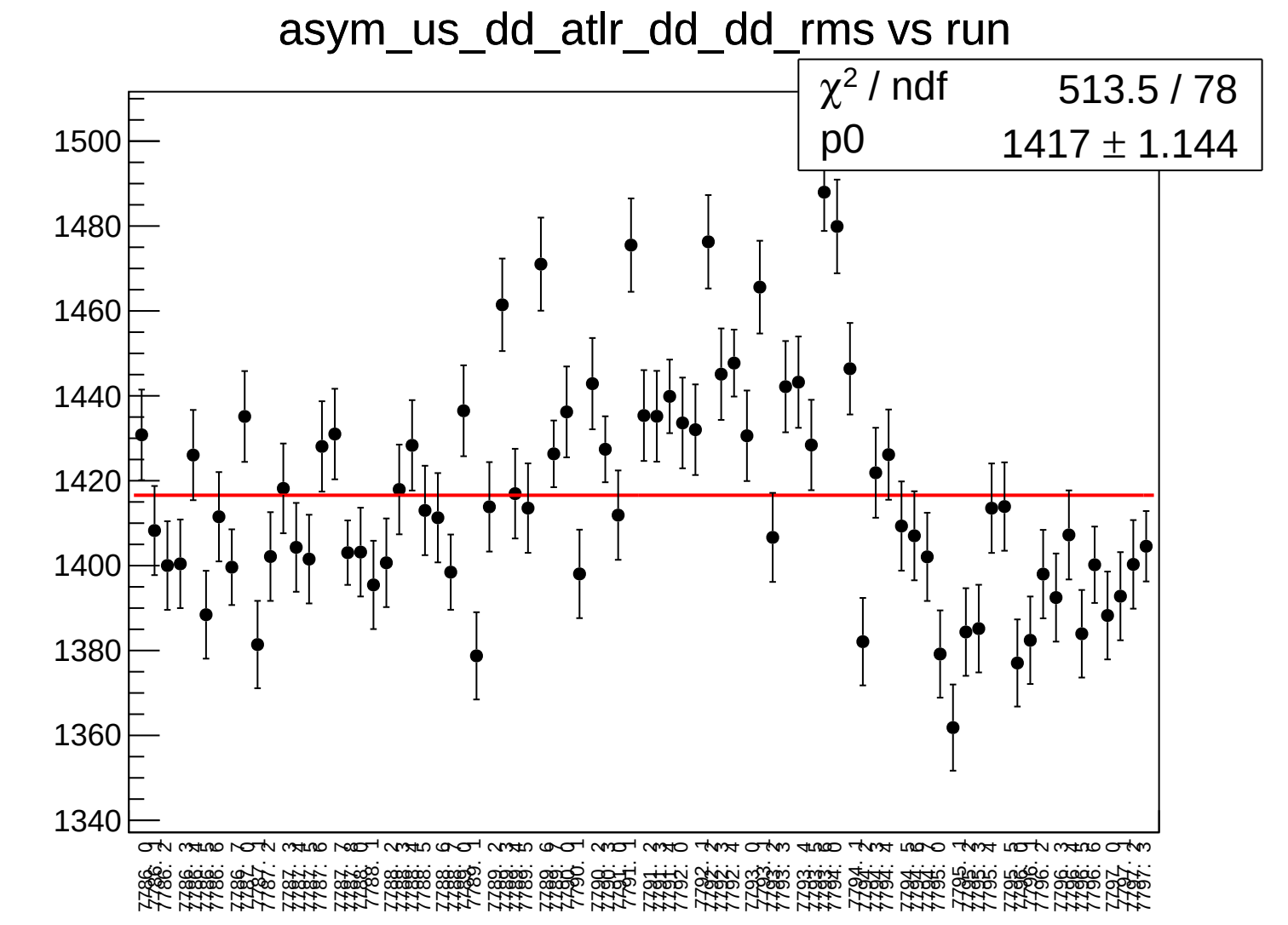

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.74 / 78
p0 −1680 ± 989.1
pull
Entries 79
Mean 4884
Std Dev 0

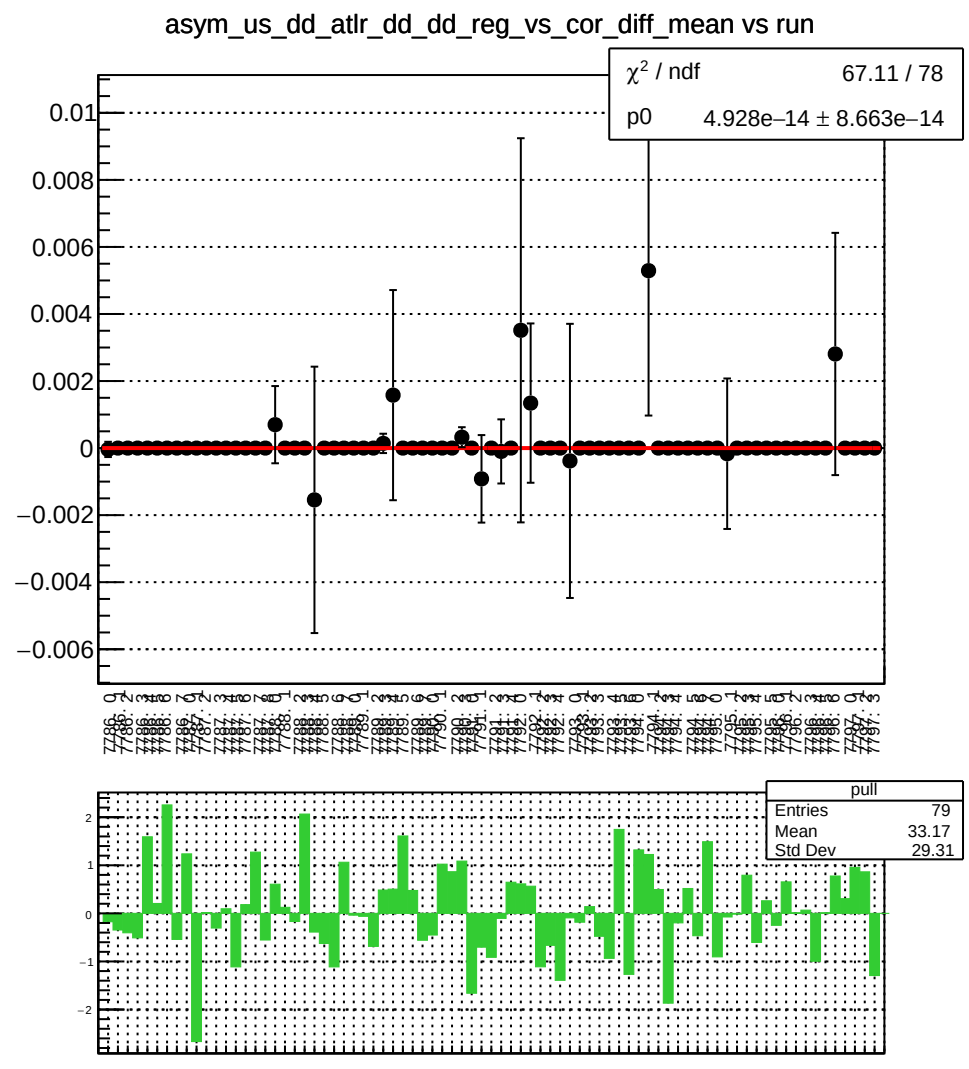

pull1D
Entries 79
Mean 0.0008134
Std Dev 0.9396

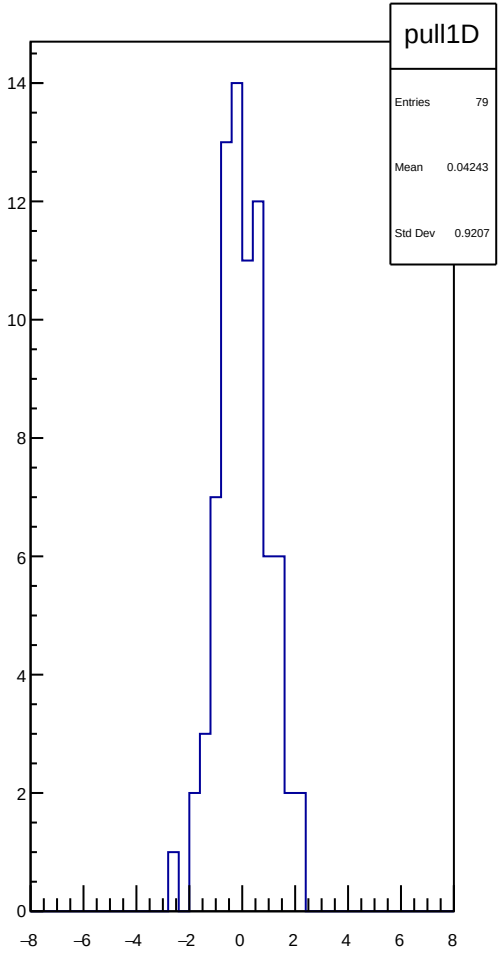

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4031 / 78
p0 865.1 ± 0.6994
980
960
940
920
900
880
860
840
820
800
780

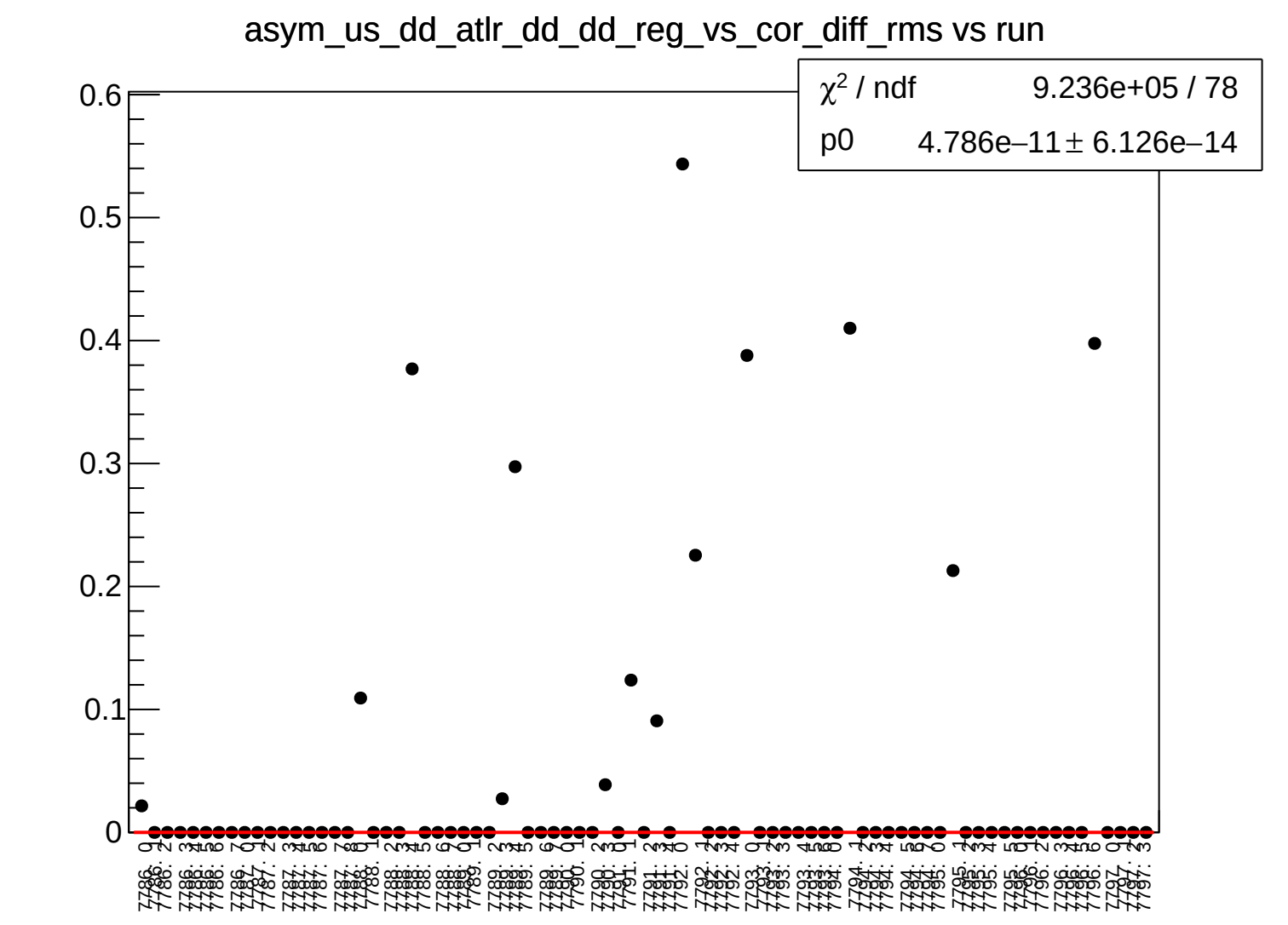

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 79.91 / 78
p0 964.6 ± 1618
40000
20000
0
−20000
−40000
pull
Entries 79
Mean 169.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

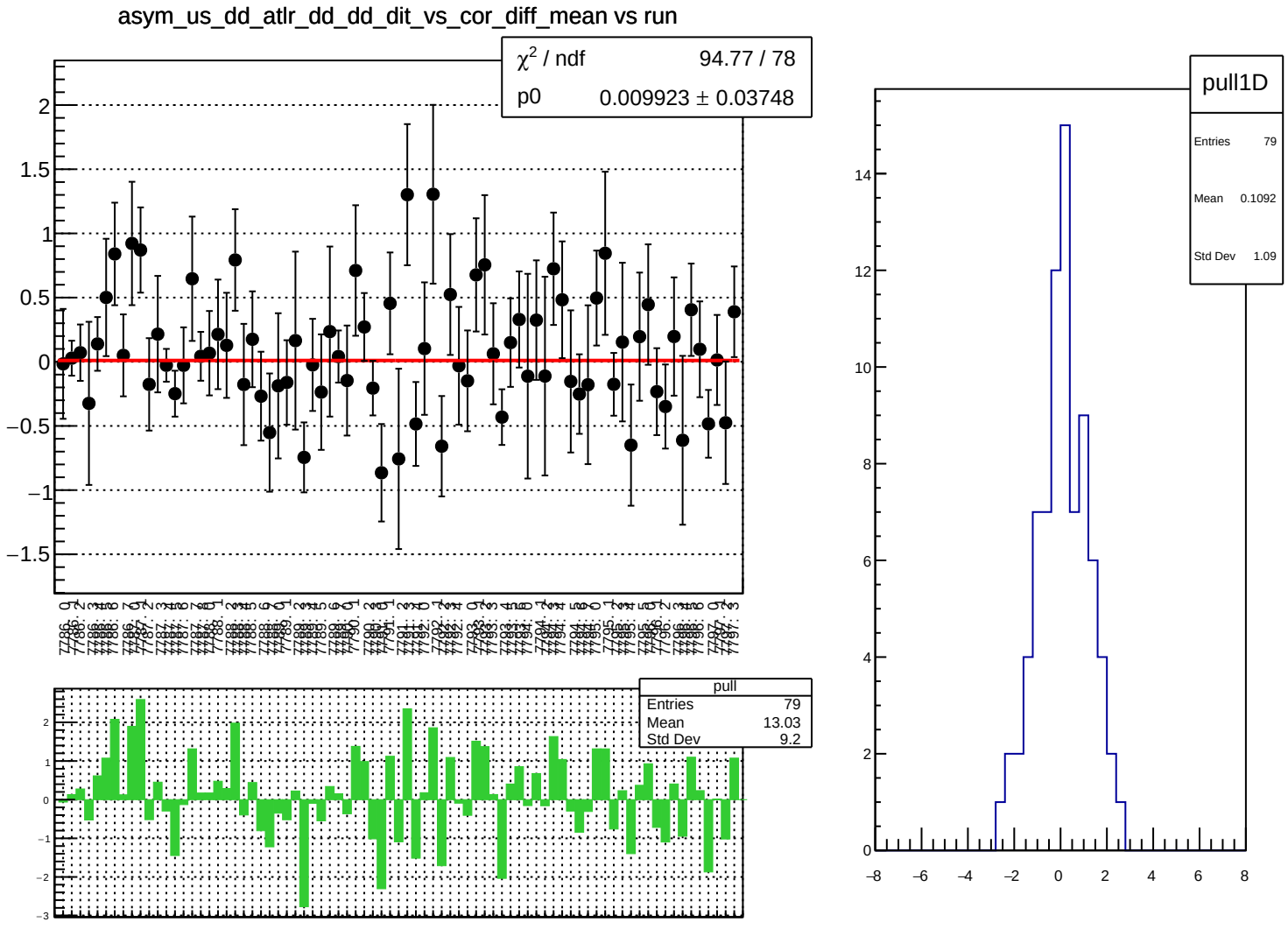

pull1D
Entries 79
Mean −0.01616
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

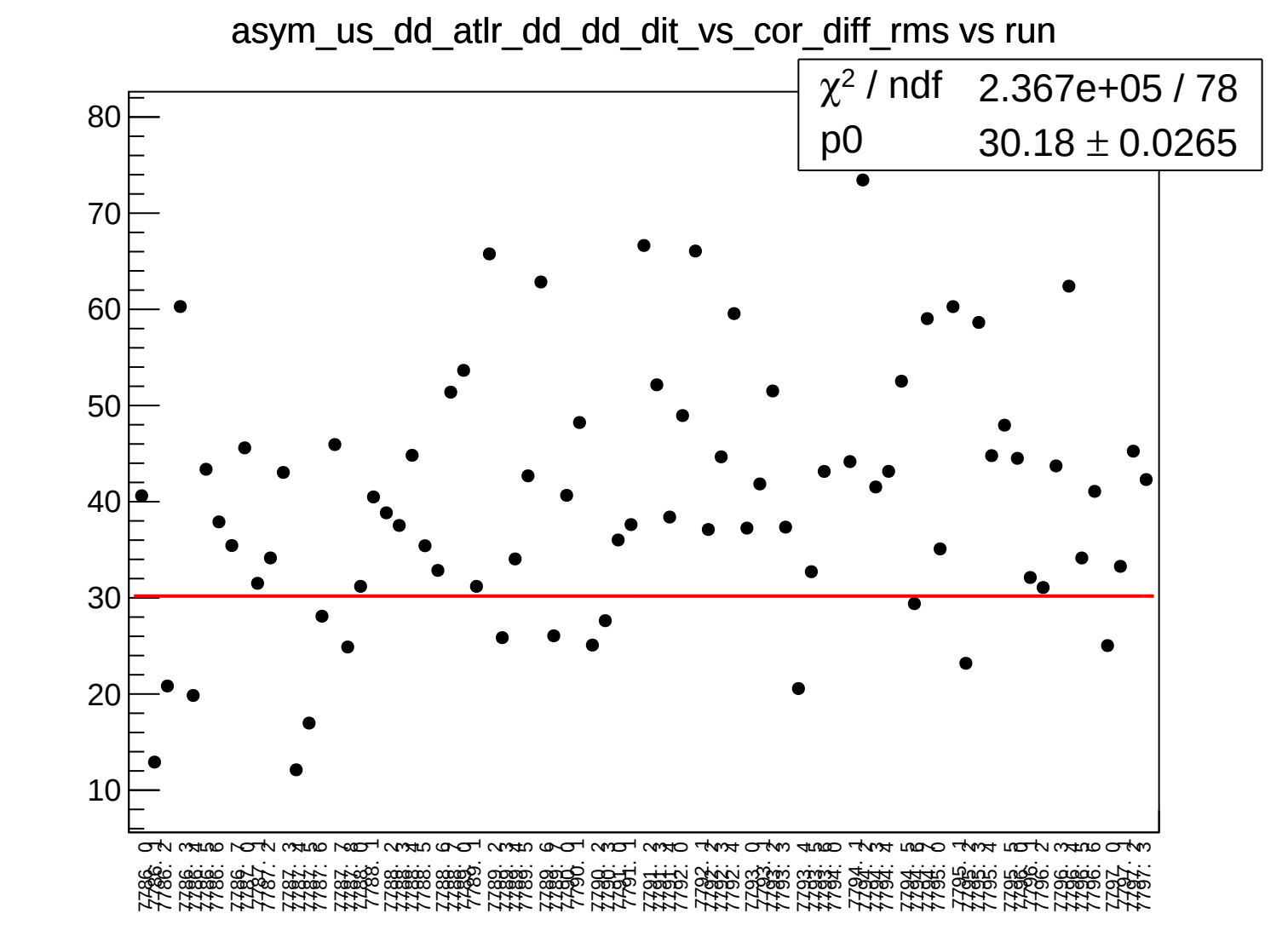

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 513.5 / 78
p0 1417 ± 1.144
1500
1480
1460
1440
1420
1400
1380
1360
1340

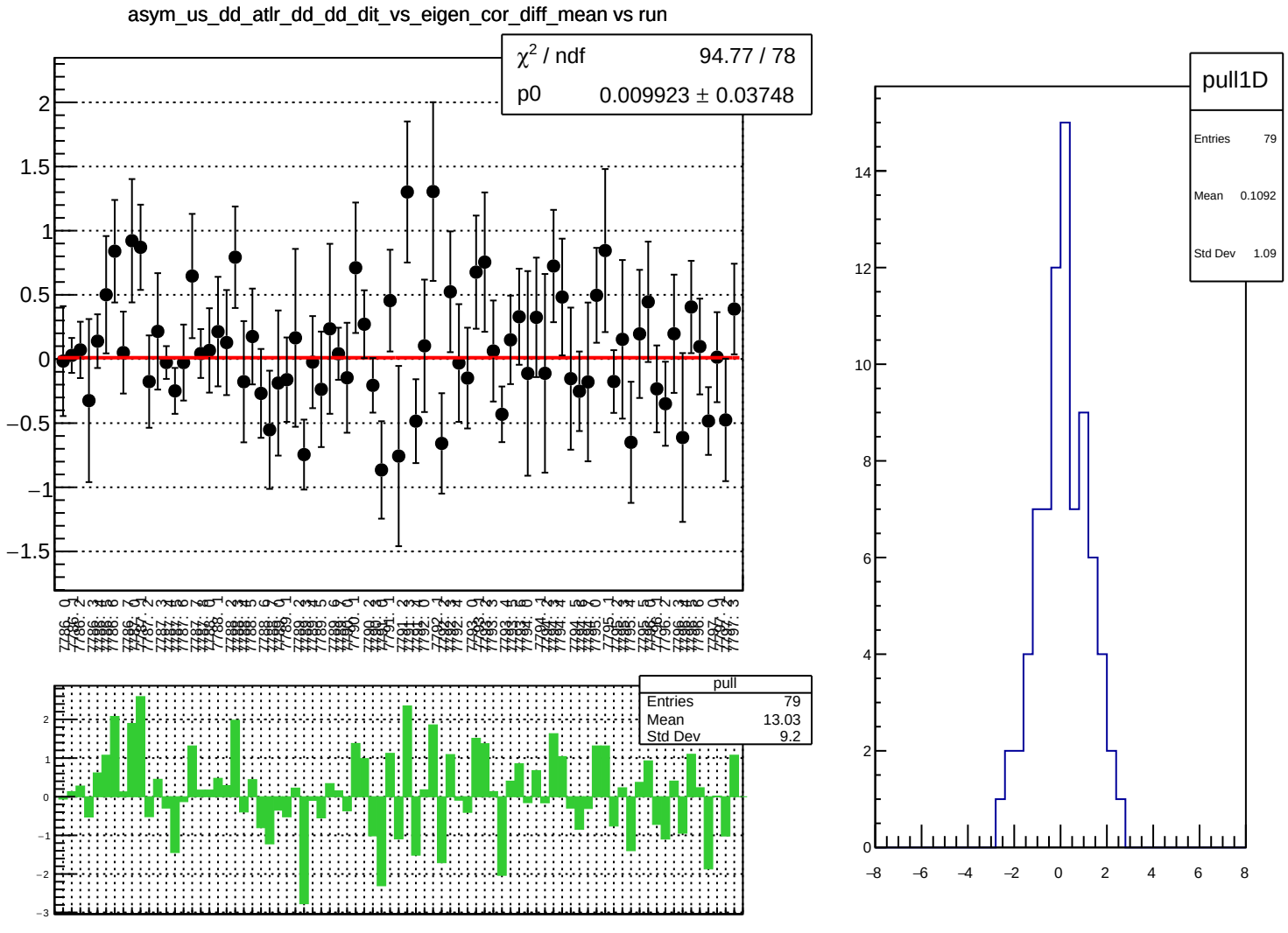

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 67.11 / 78
p0 4.928e−14 ± 8.663e−14
pull
Entries 79
Mean 33.17
Std Dev 29.31

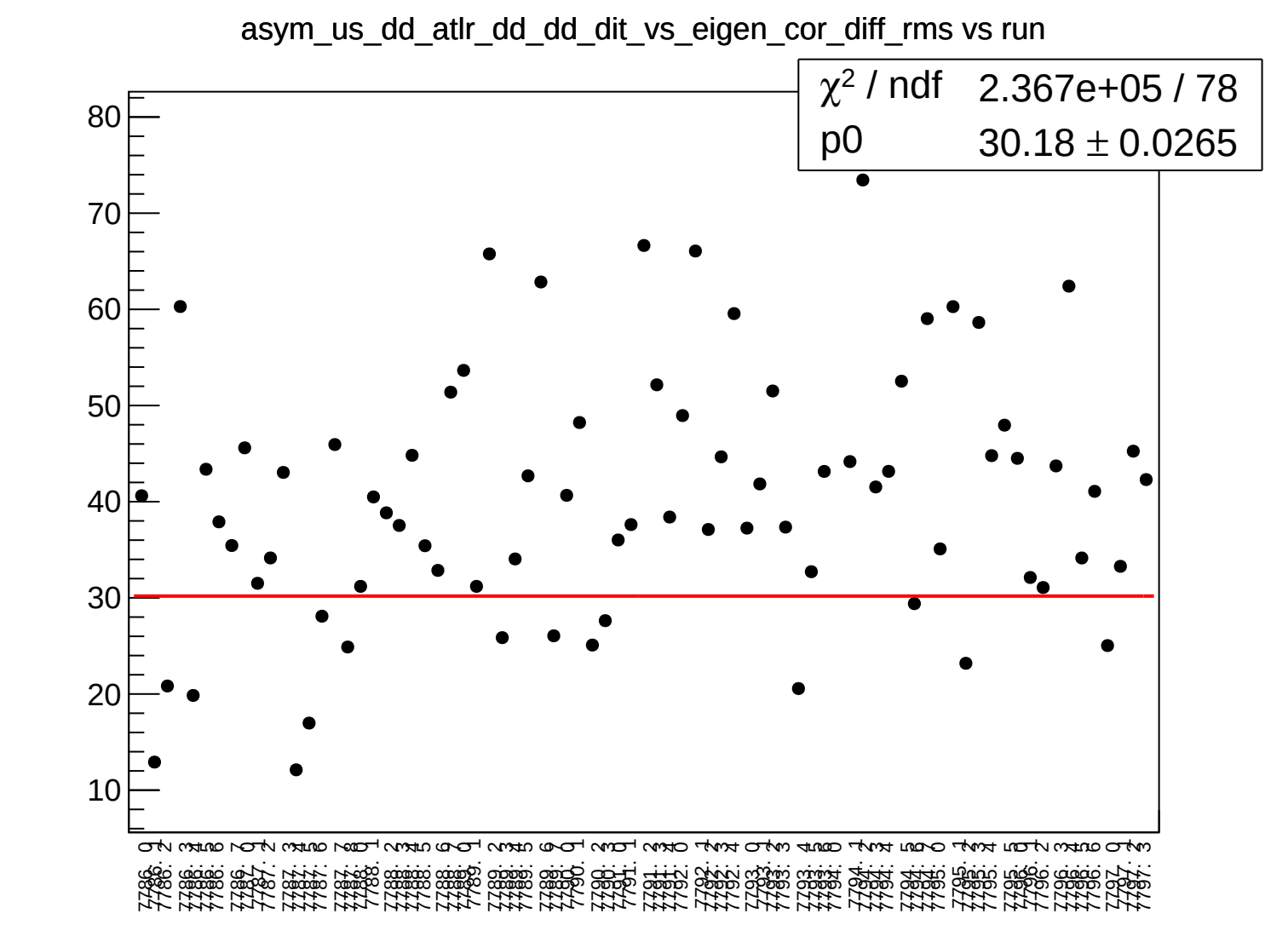

pull1D
Entries 79
Mean 0.04243
Std Dev 0.9207

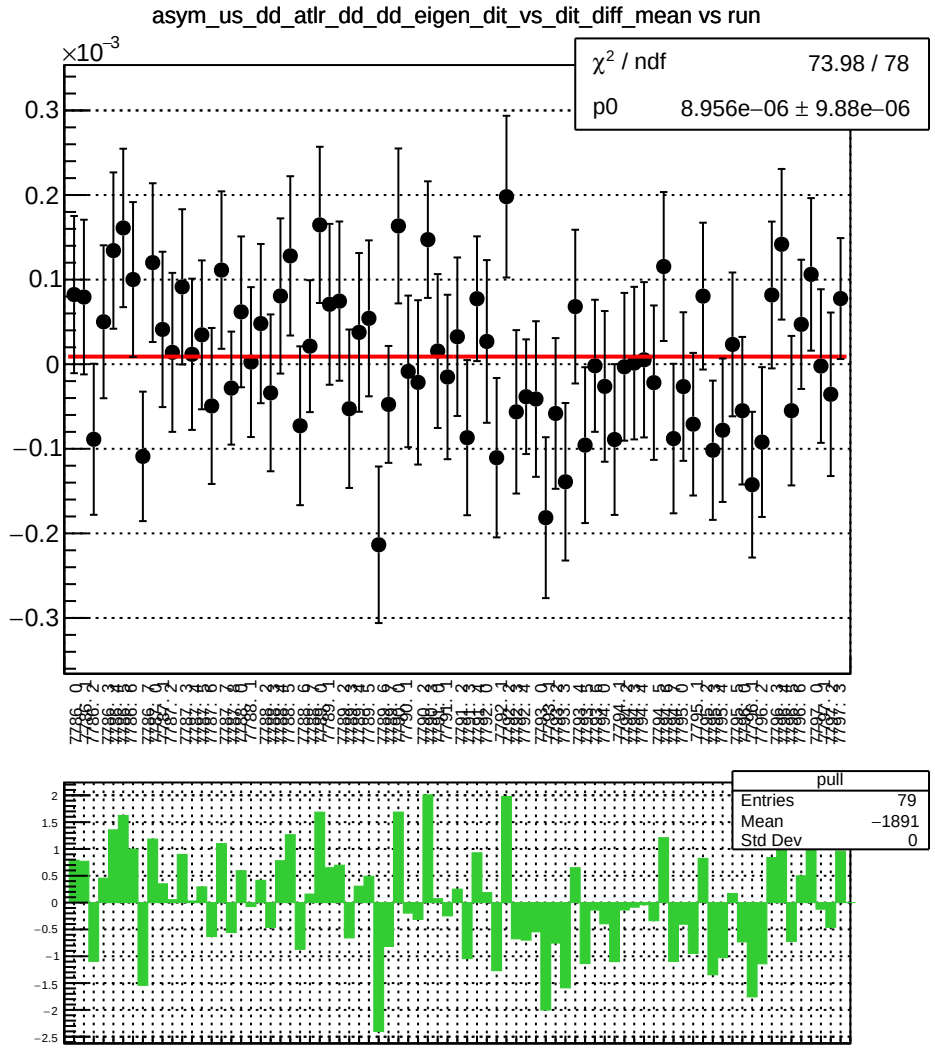

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.236e+05 / 78
p0 4.786e−11 ± 6.126e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

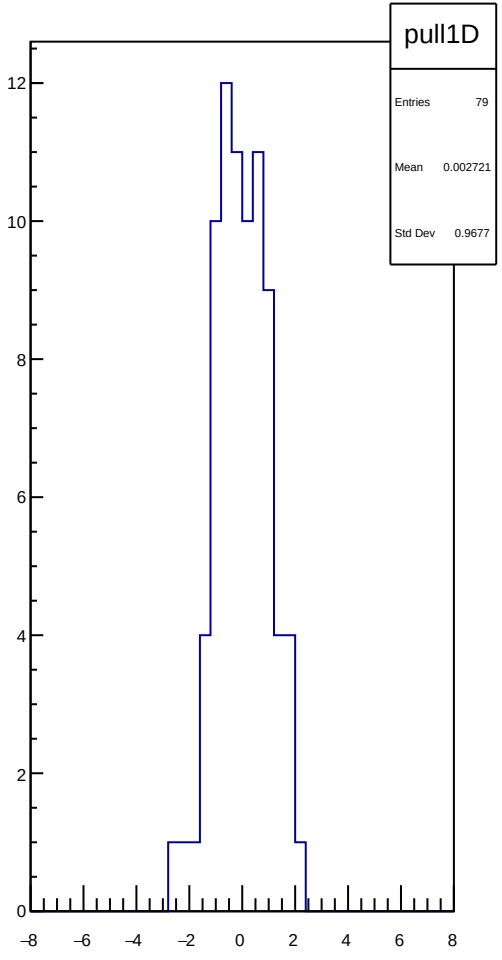

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.77 / 78
p0 0.009923 ± 0.03748
pull
Entries 79
Mean 13.03
Std Dev 9.2
pull1D
Entries 79
Mean 0.1092
Std Dev 1.09

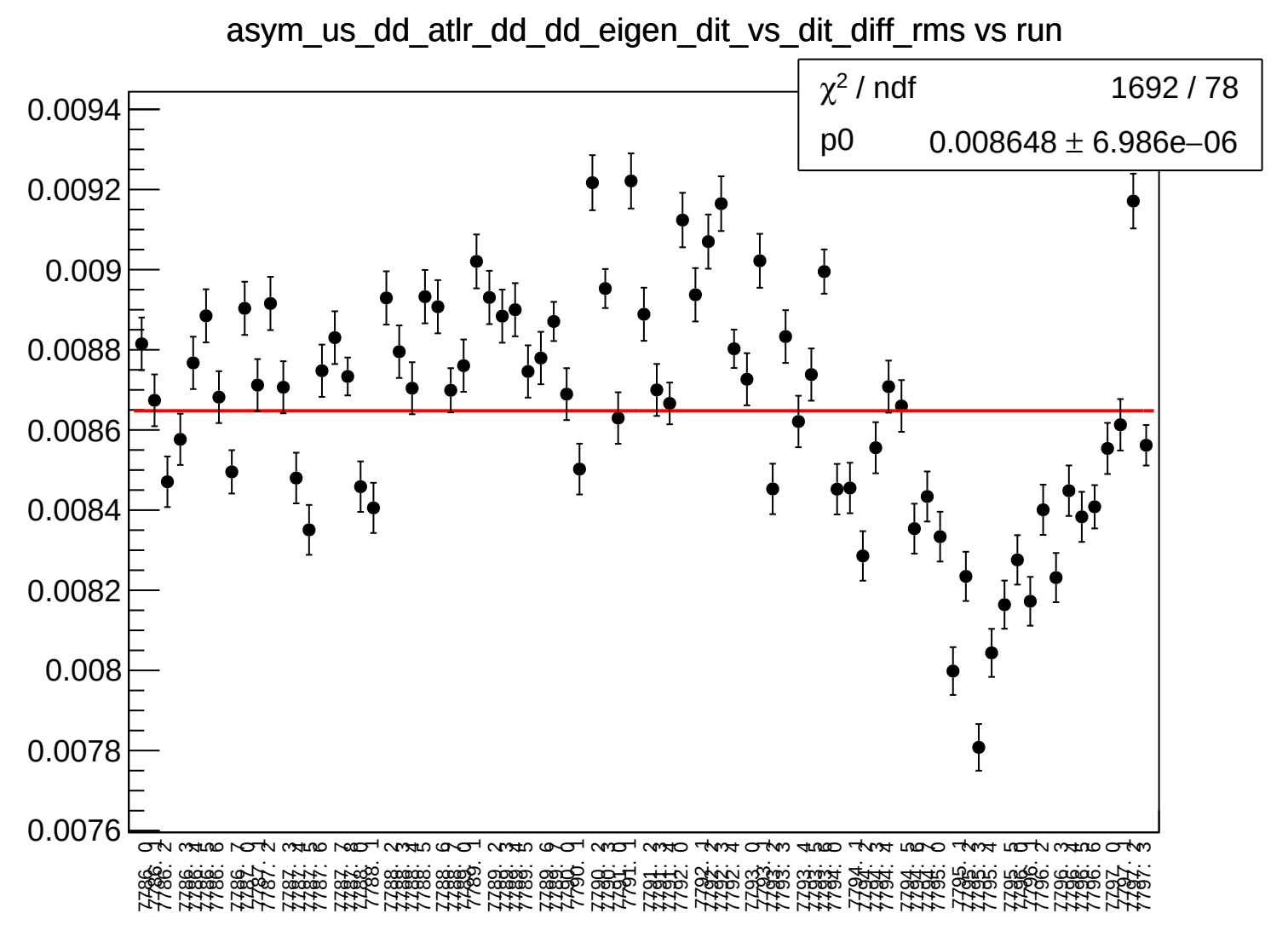

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.367e+05 / 78
p0 30.18 ± 0.0265
80
70
60
50
40
30
20
10

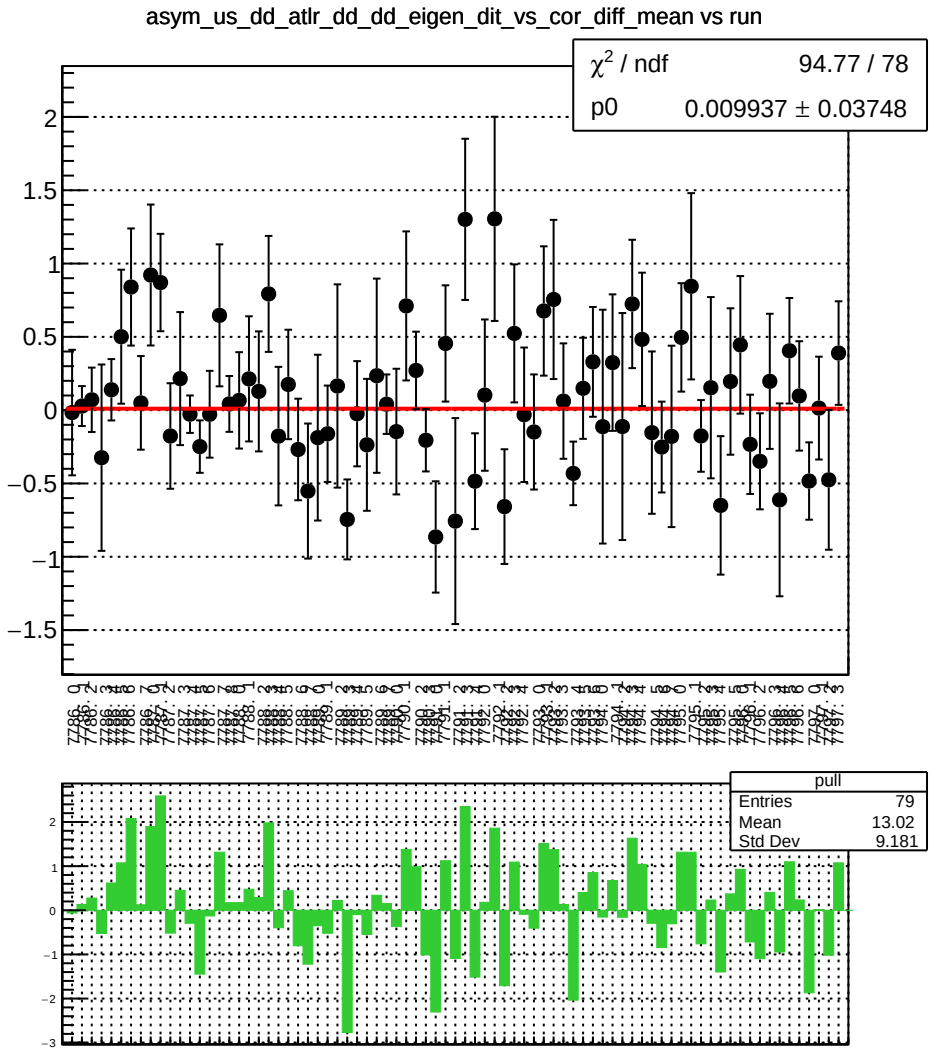

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.77 / 78
p0 0.009923 ± 0.03748
pull
Entries 79
Mean 13.03
Std Dev 9.2
pull1D
Entries 79
Mean 0.1092
Std Dev 1.09

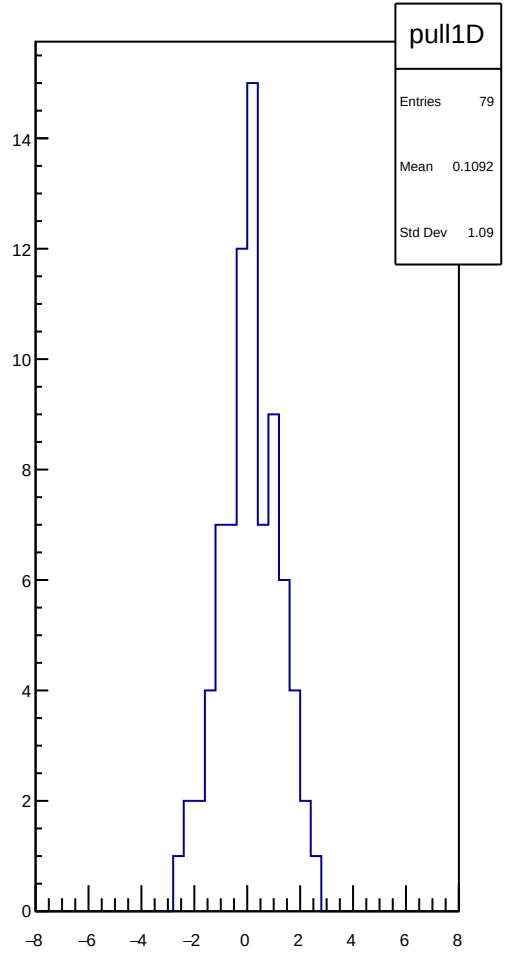

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.367e+05 / 78
p0 30.18 ± 0.0265
80
70
60
50
40
30
20
10

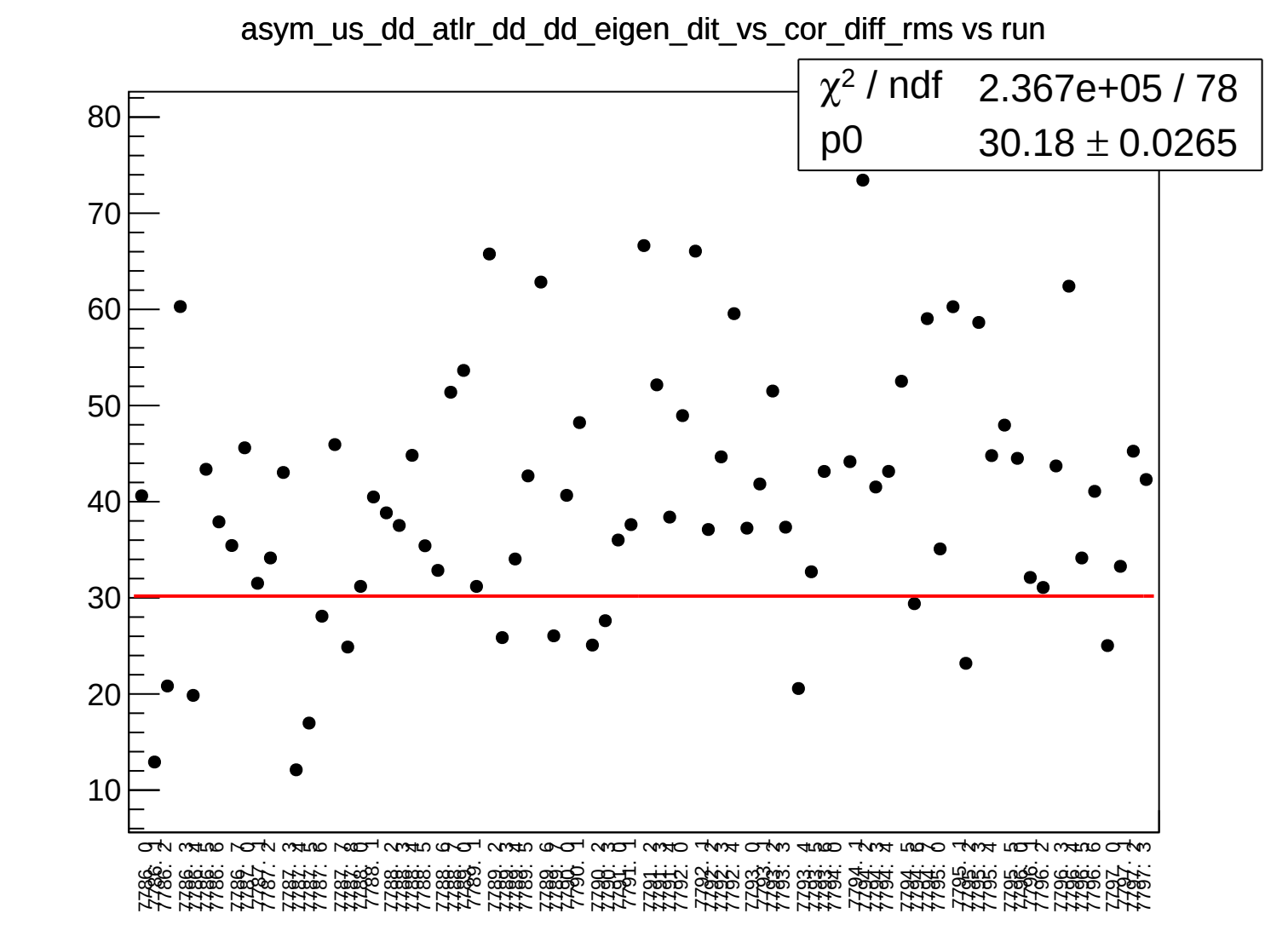

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.98 / 78
p0 8.956e−06 ± 9.88e−06
pull
Entries 79
Mean −1891
Std Dev 0

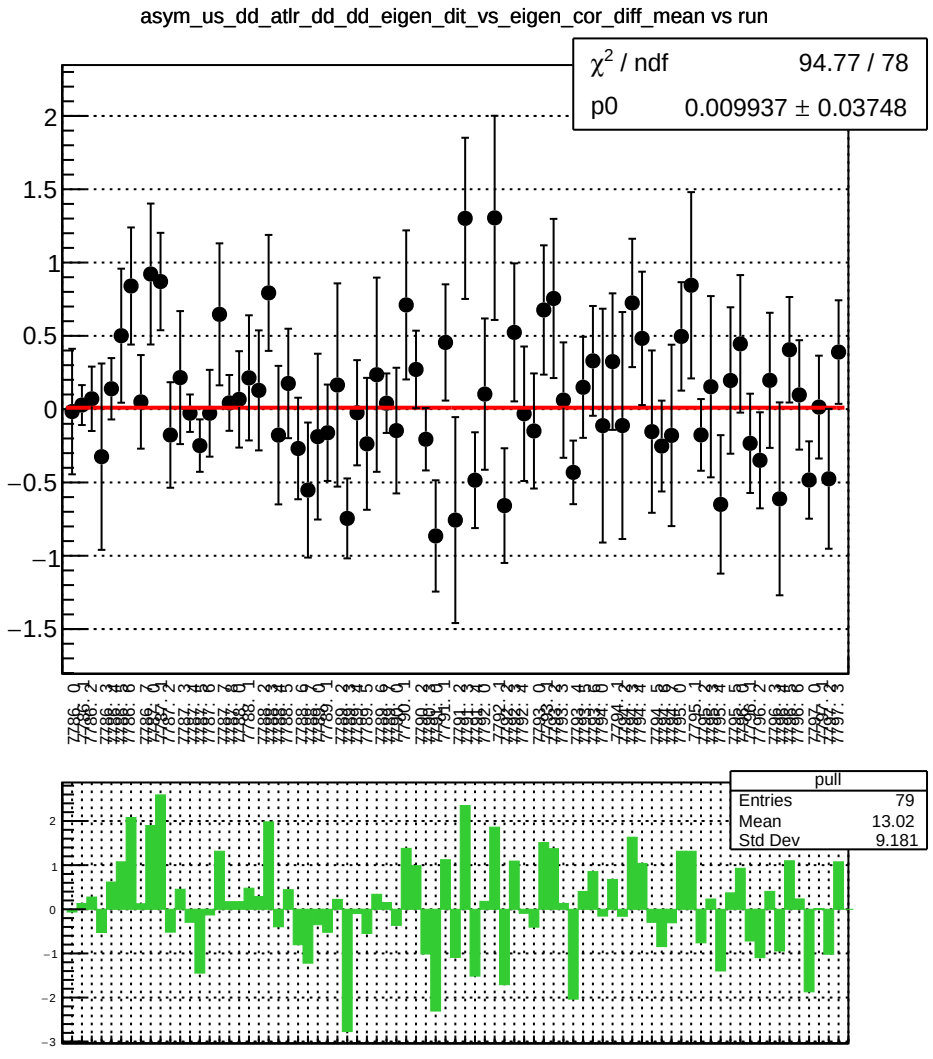

pull1D
Entries 79
Mean 0.002721
Std Dev 0.9677

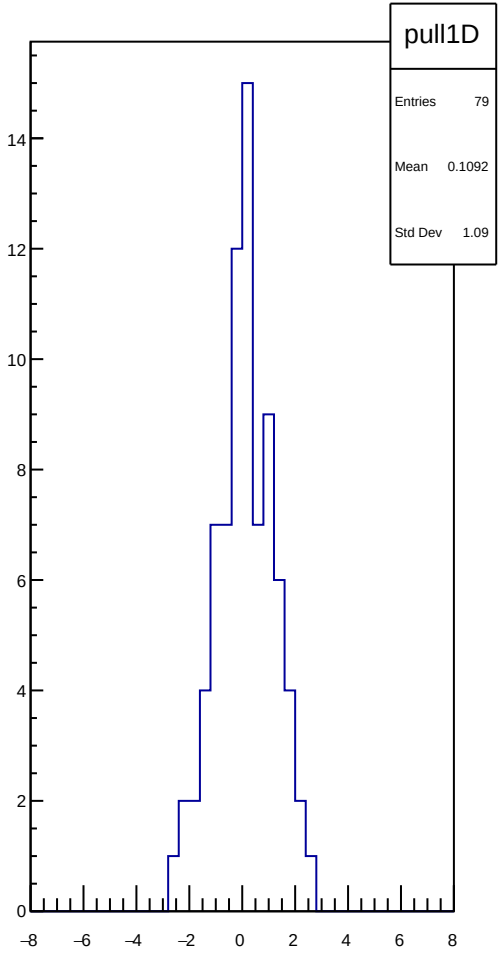

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1692 / 78
p0 0.008648 ± 6.986e−06
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076

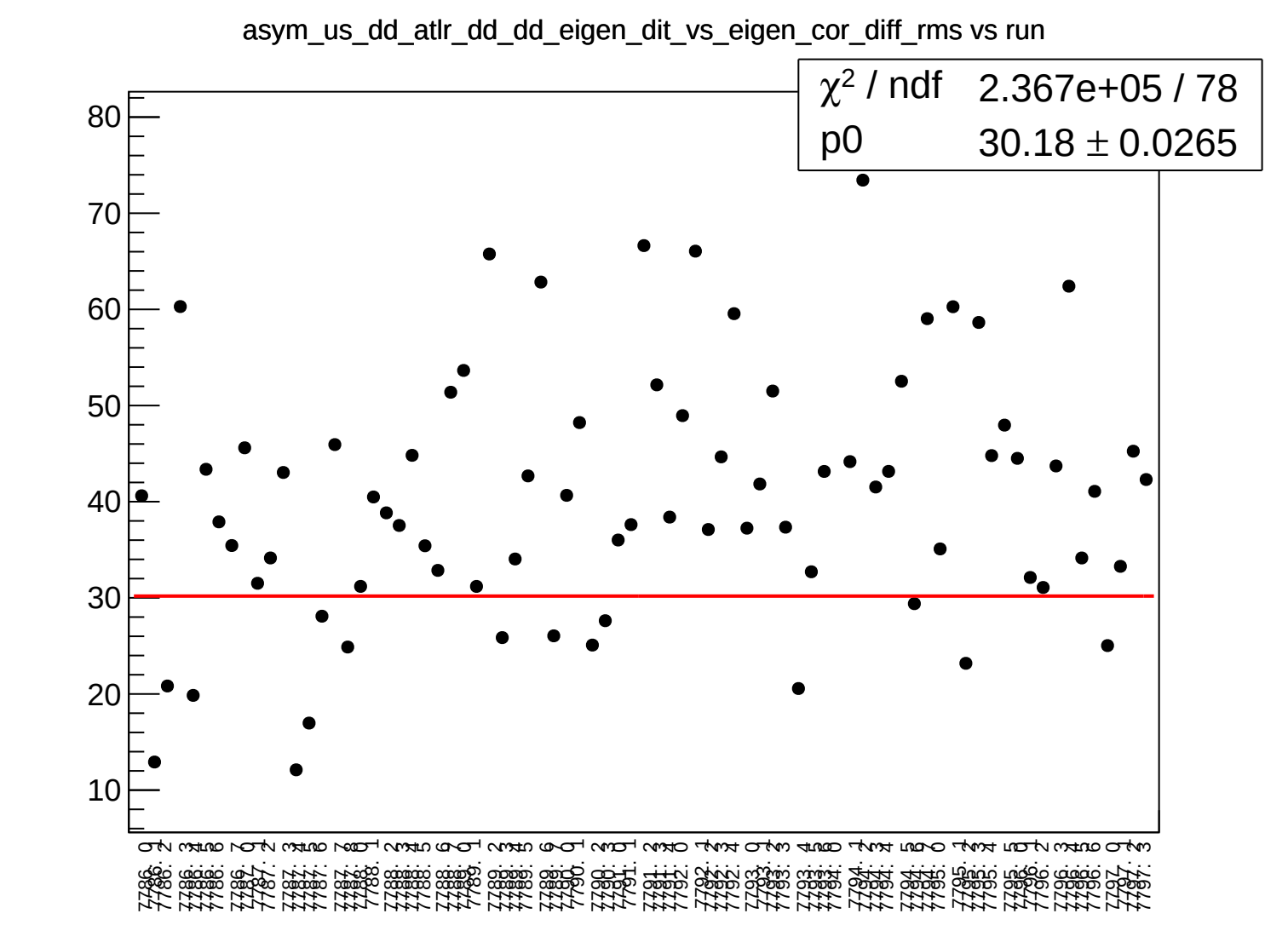

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.77 / 78
p0 0.009937 ± 0.03748
pull
Entries 79
Mean 13.02
Std Dev 9.181

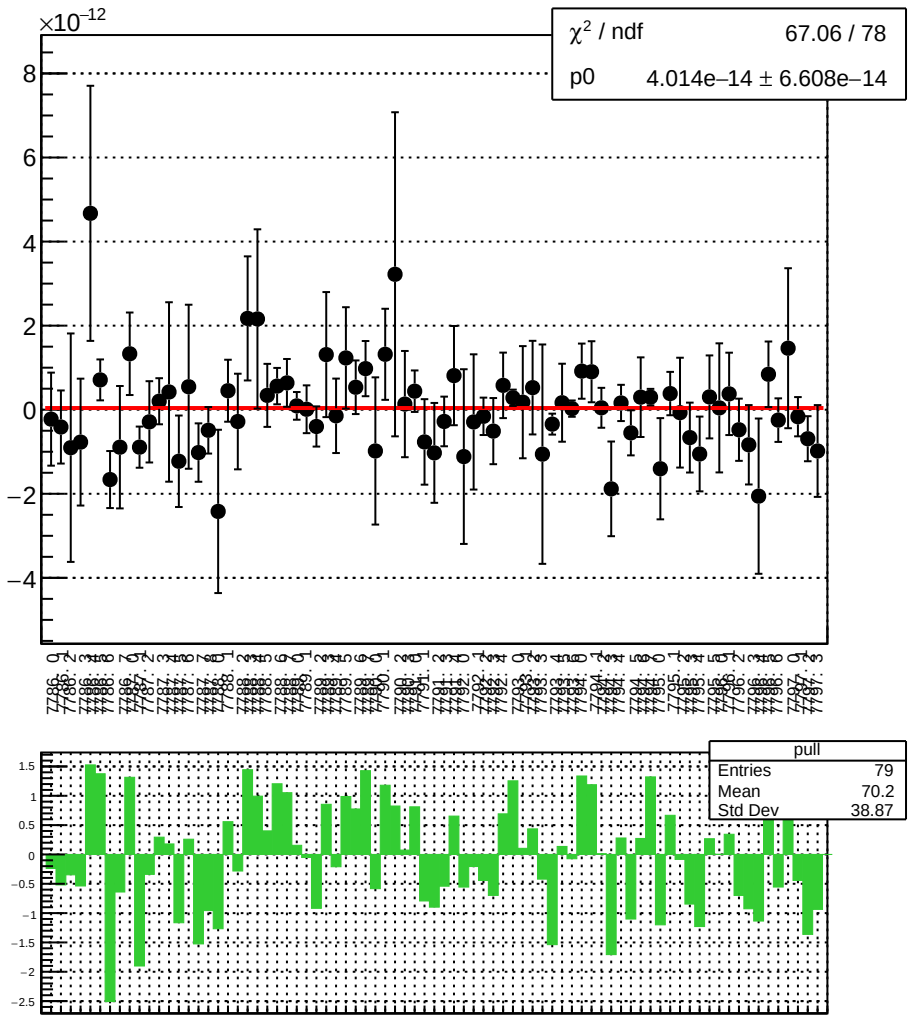

pull1D
Entries 79
Mean 0.1092
Std Dev 1.09

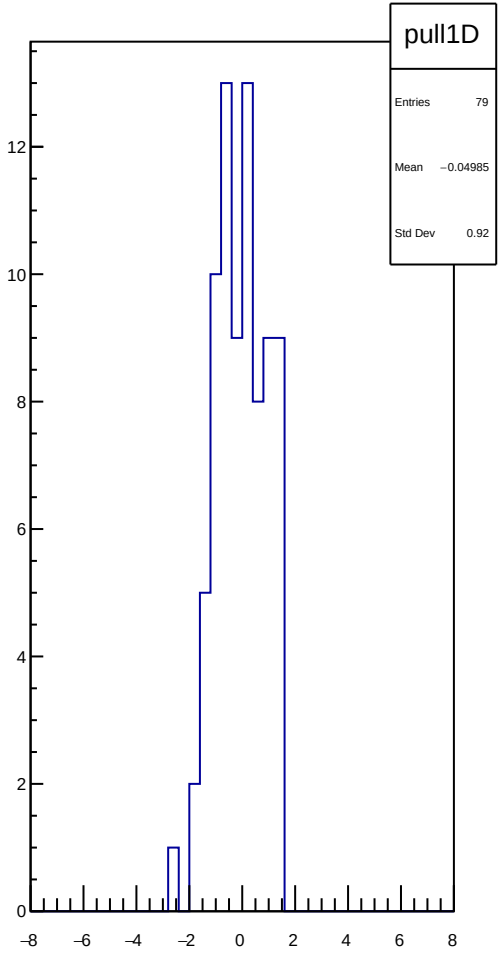

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.367e+05 / 78
p0 30.18 ± 0.0265
80
70
60
50
40
30
20
10

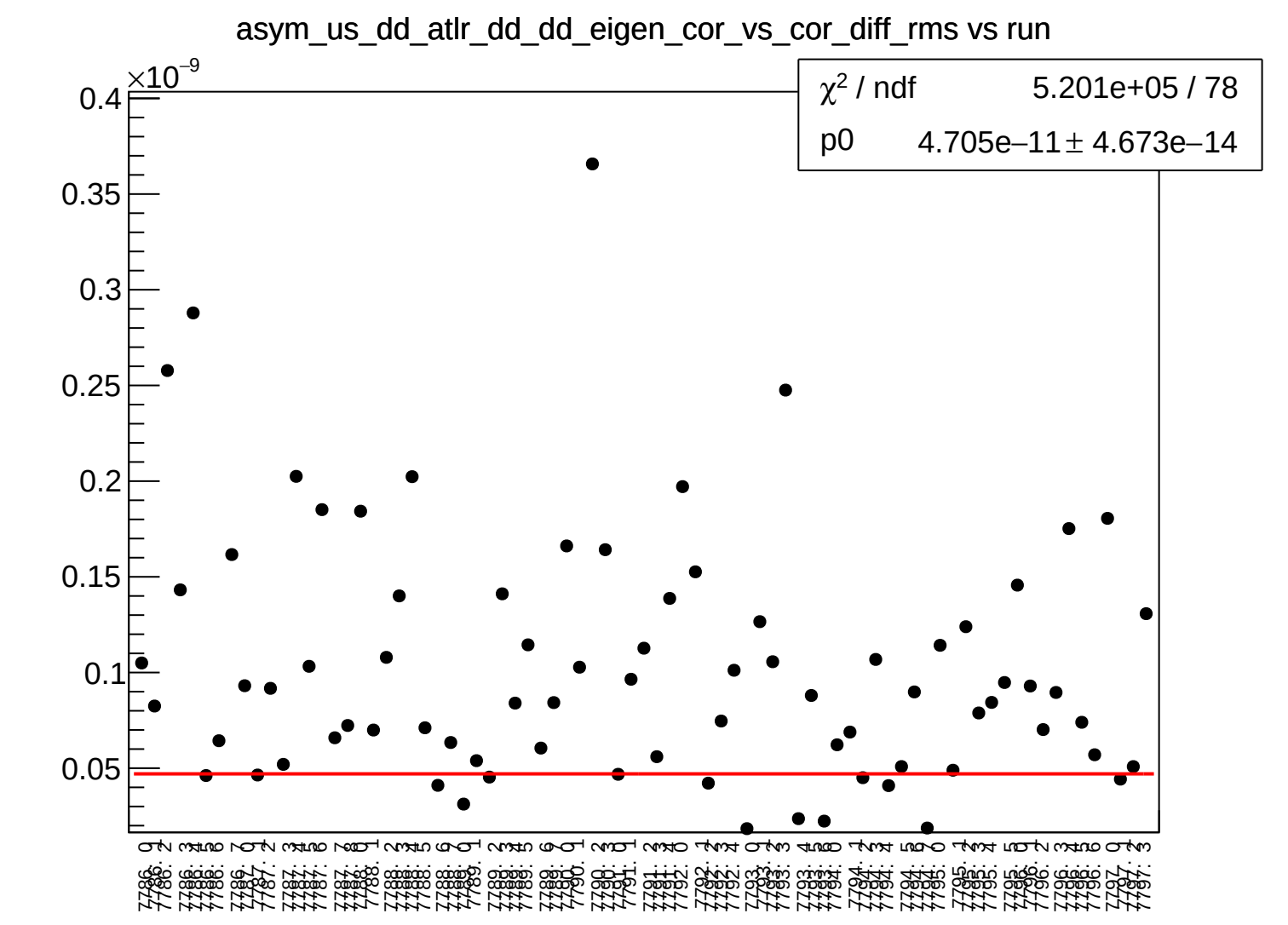

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.77 / 78
p0 0.009937 ± 0.03748
pull
Entries 79
Mean 13.02
Std Dev 9.181

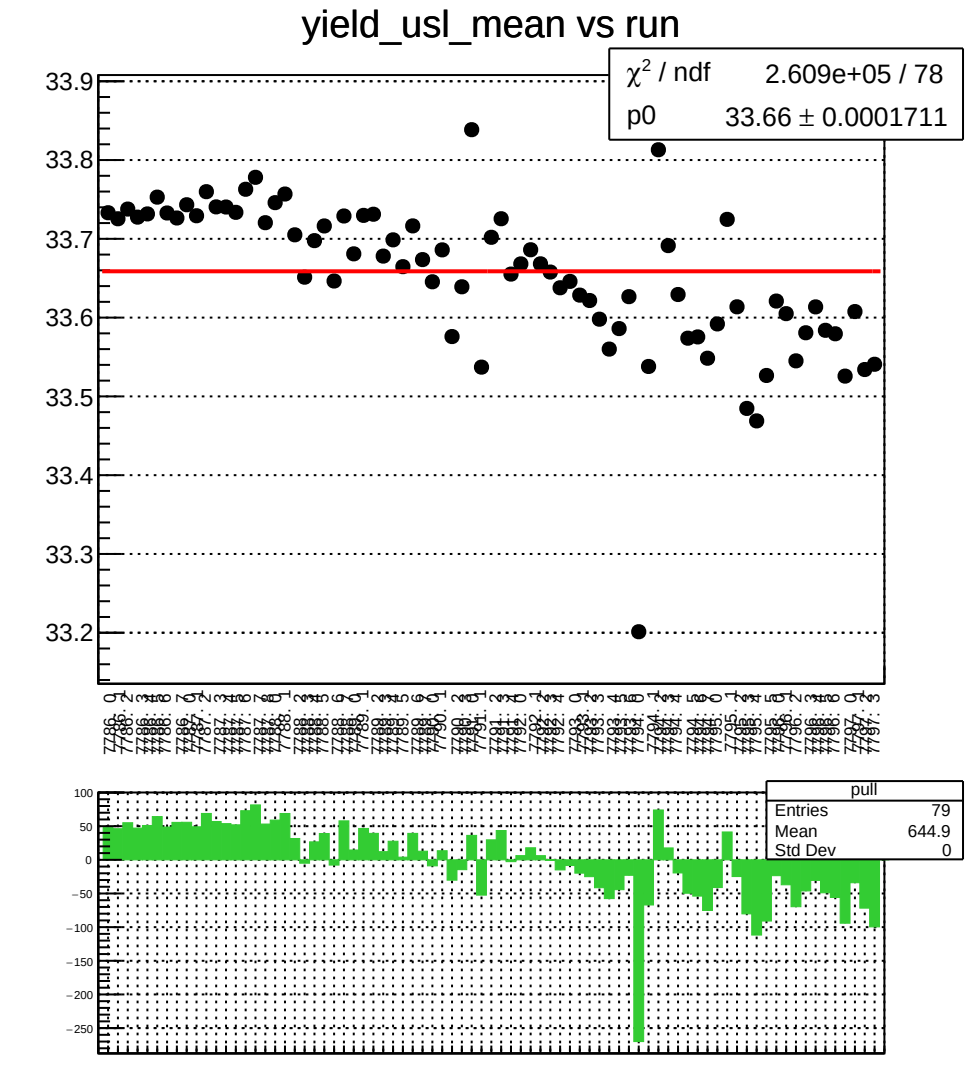

pull1D
Entries 79
Mean 0.1092
Std Dev 1.09

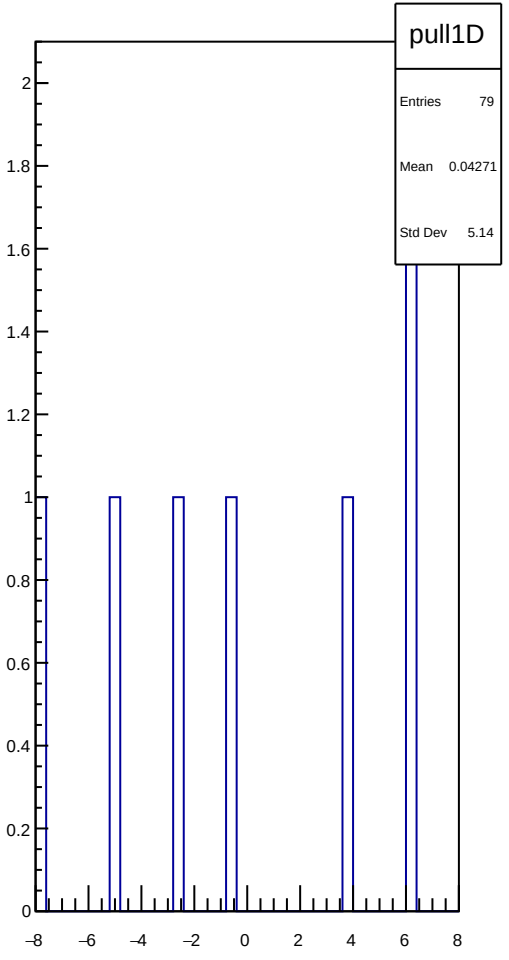

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.367e+05 / 78
p0 30.18 ± 0.0265
80
70
60
50
40
30
20
10

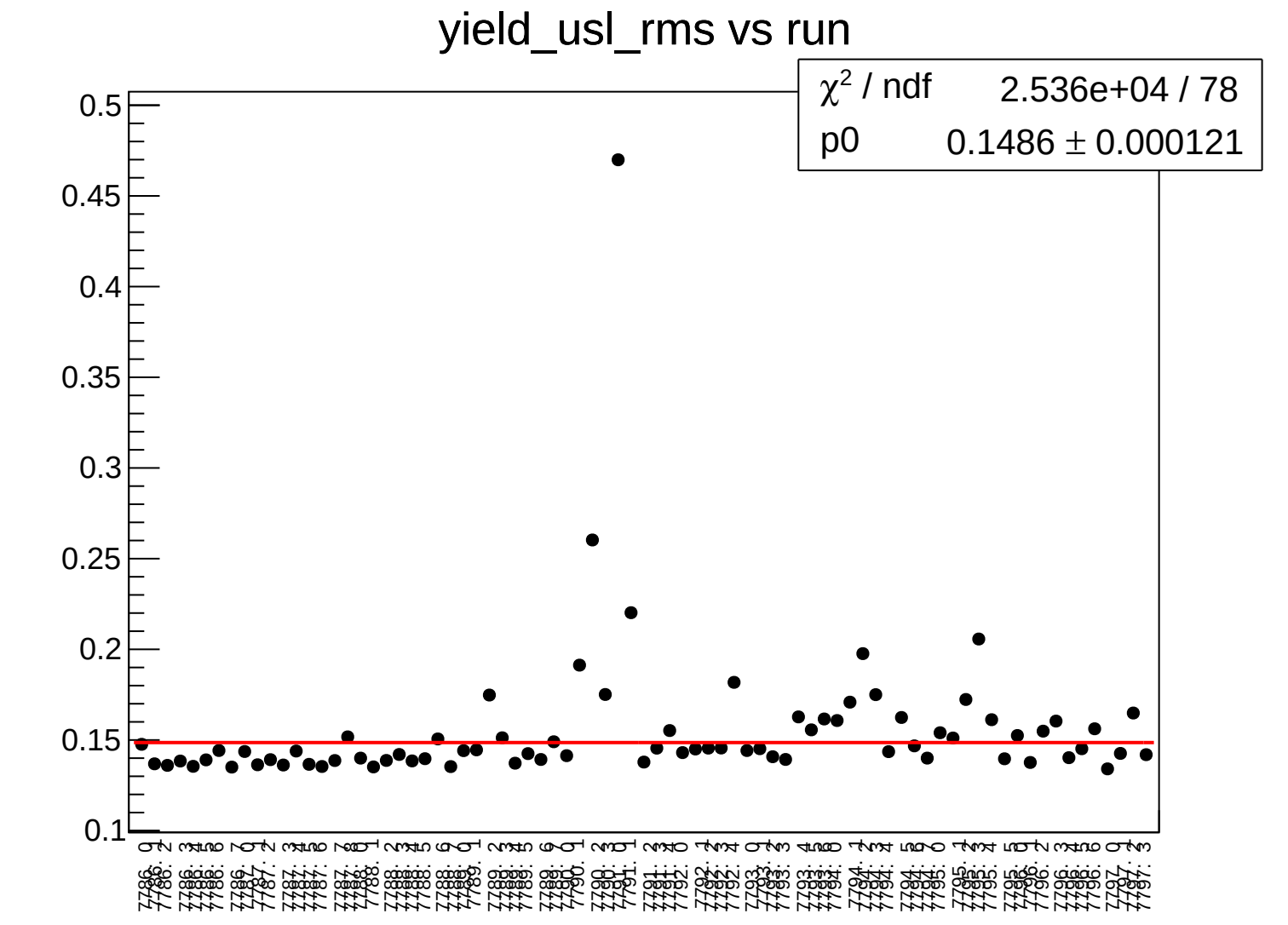

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.06 / 78
p0 4.014e−14 ± 6.608e−14
pull
Entries 79
Mean 70.2
Std Dev 38.87

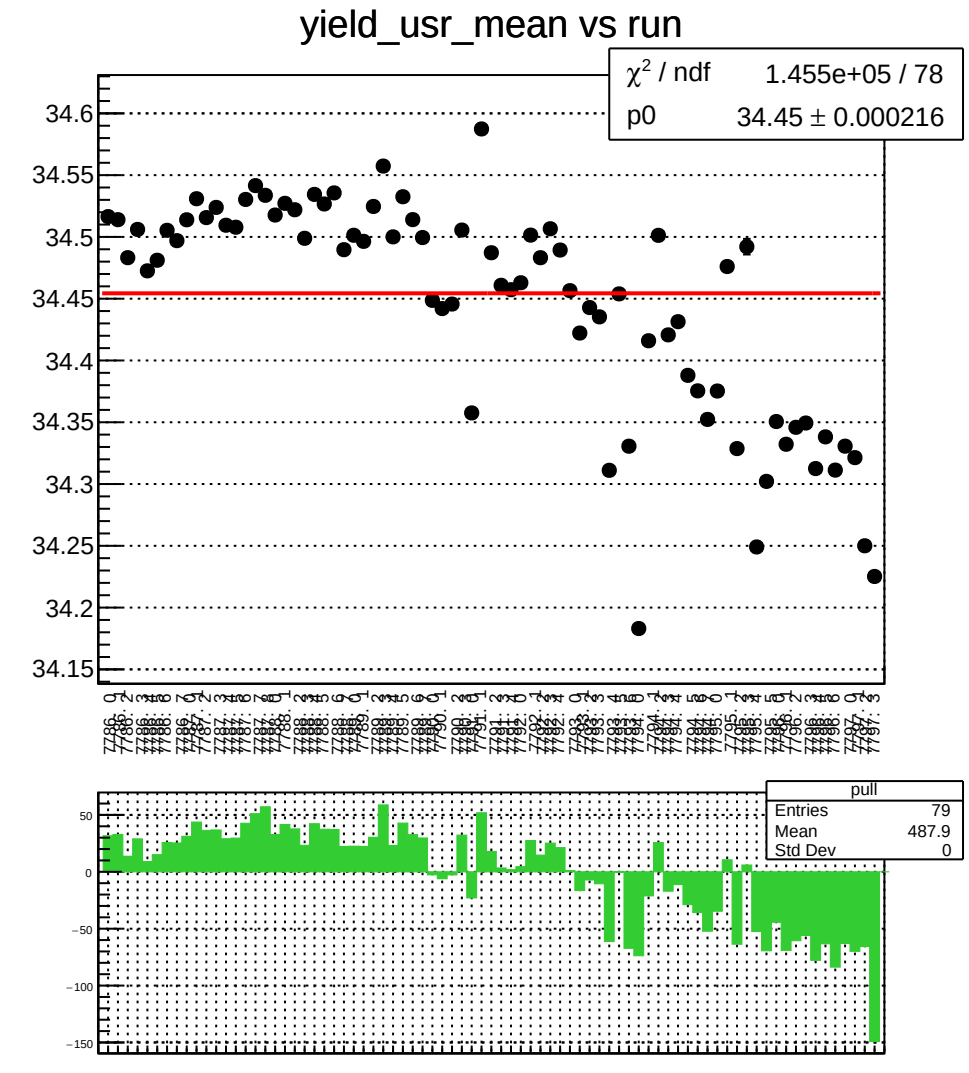

pull1D
Entries 79
Mean −0.04985
Std Dev 0.92

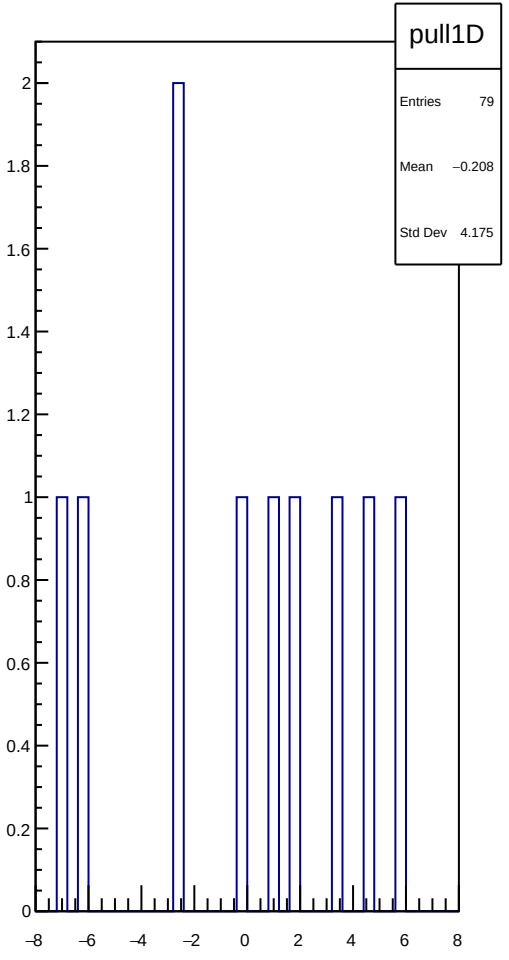

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.201e+05 / 78
p0 4.705e−11 ± 4.673e−14

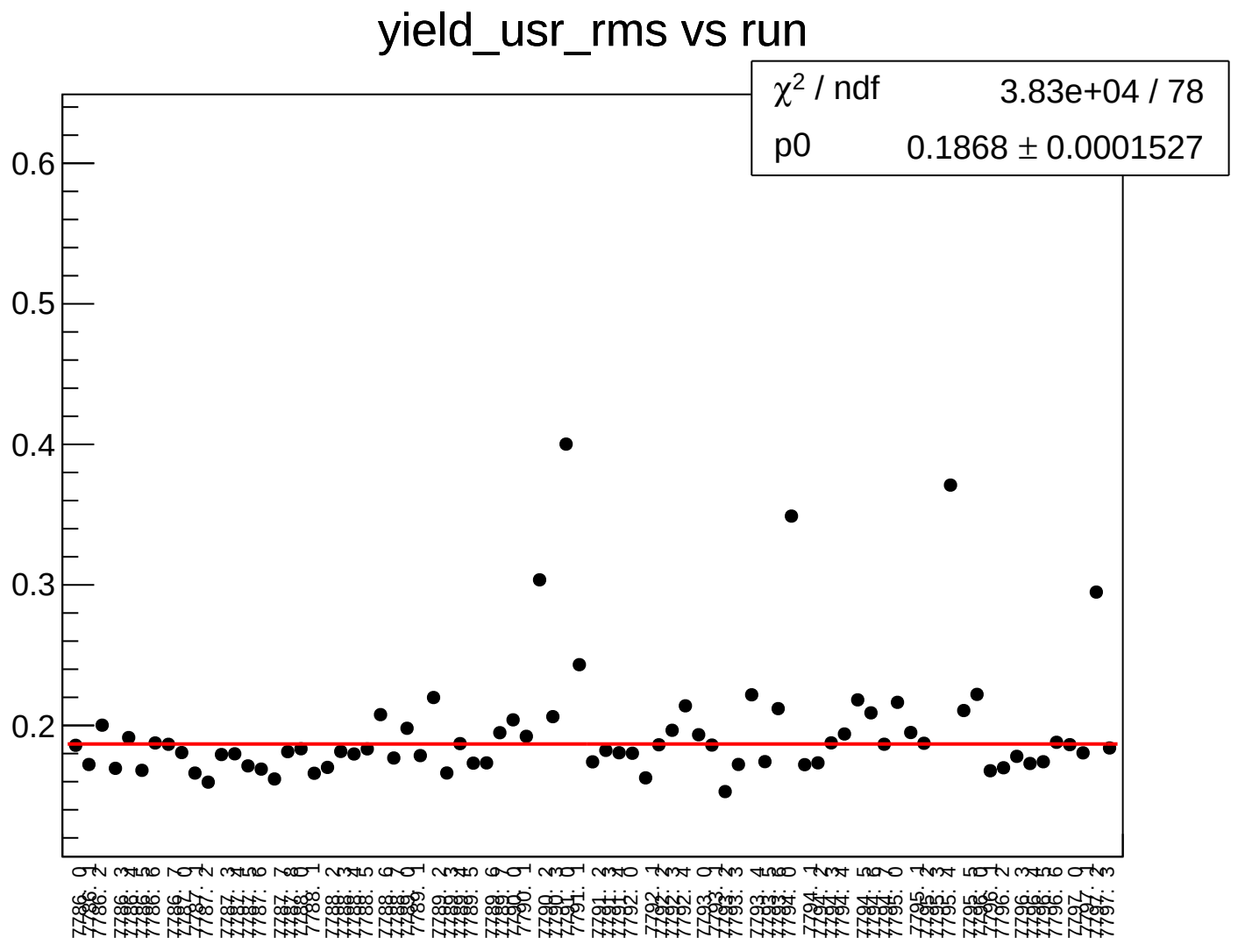

yield_usl_mean vs run
χ² / ndf 2.609e+05 / 78
p0 33.66 ± 0.0001711
33.9
33.8
33.7
33.6
33.5
33.4
33.3
33.2
pull
Entries 79
Mean 644.9
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

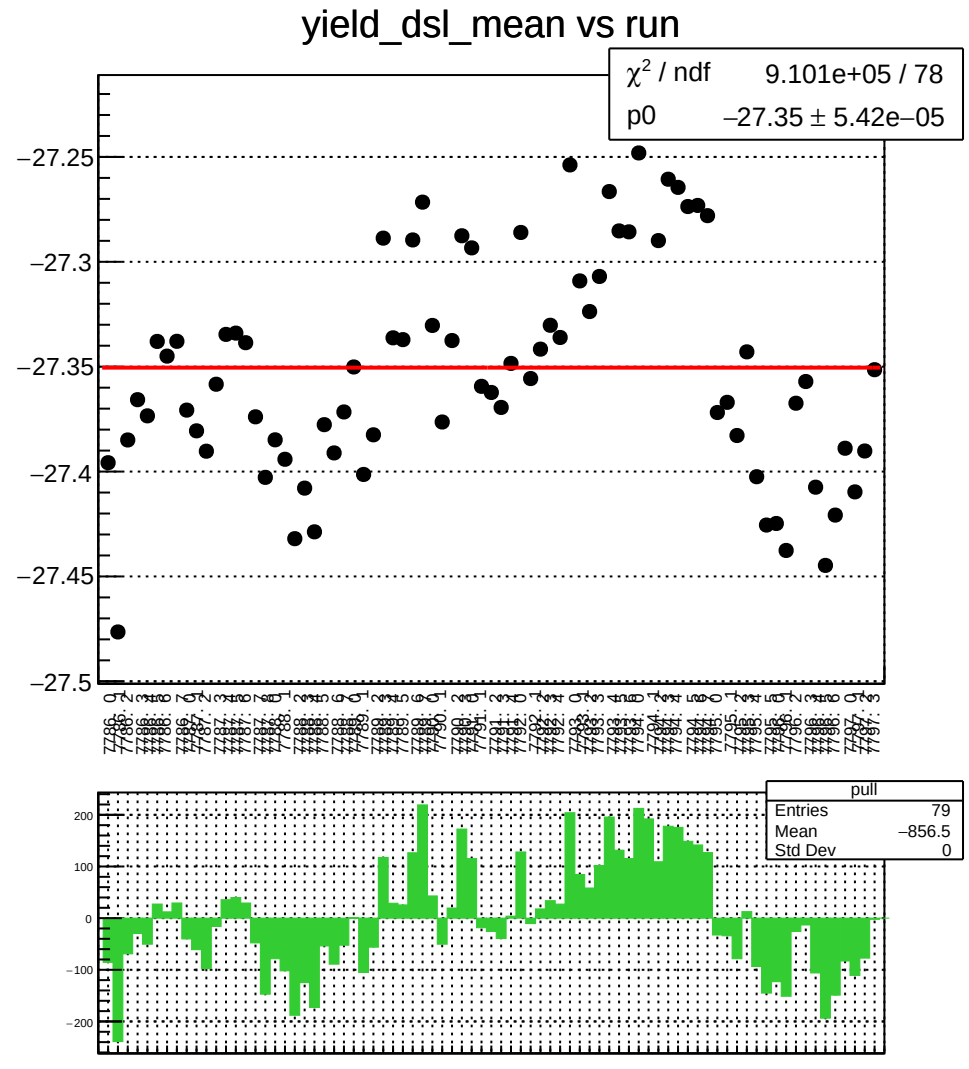

pull1D
Entries 79
Mean 0.04271
Std Dev 5.14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

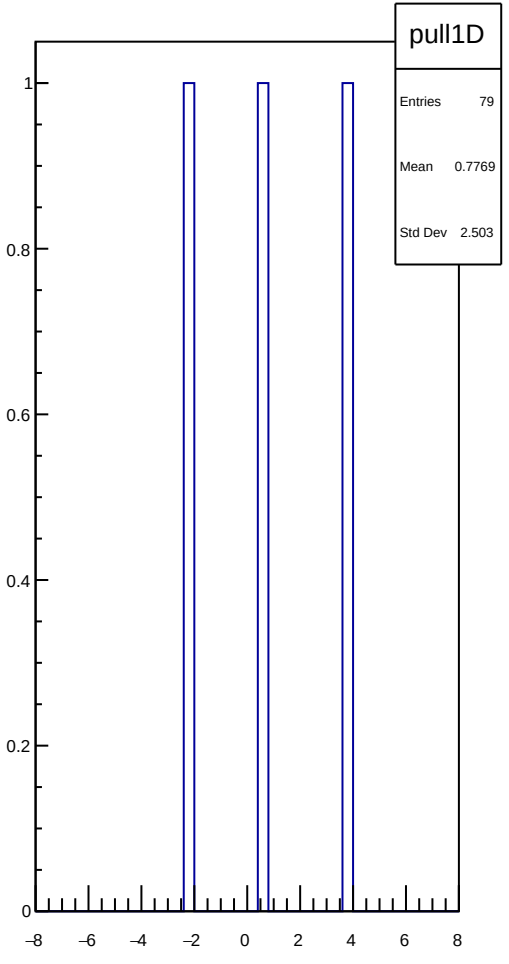

yield_usl_rms vs run
χ² / ndf 2.536e+04 / 78
p0 0.1486 ± 0.000121
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

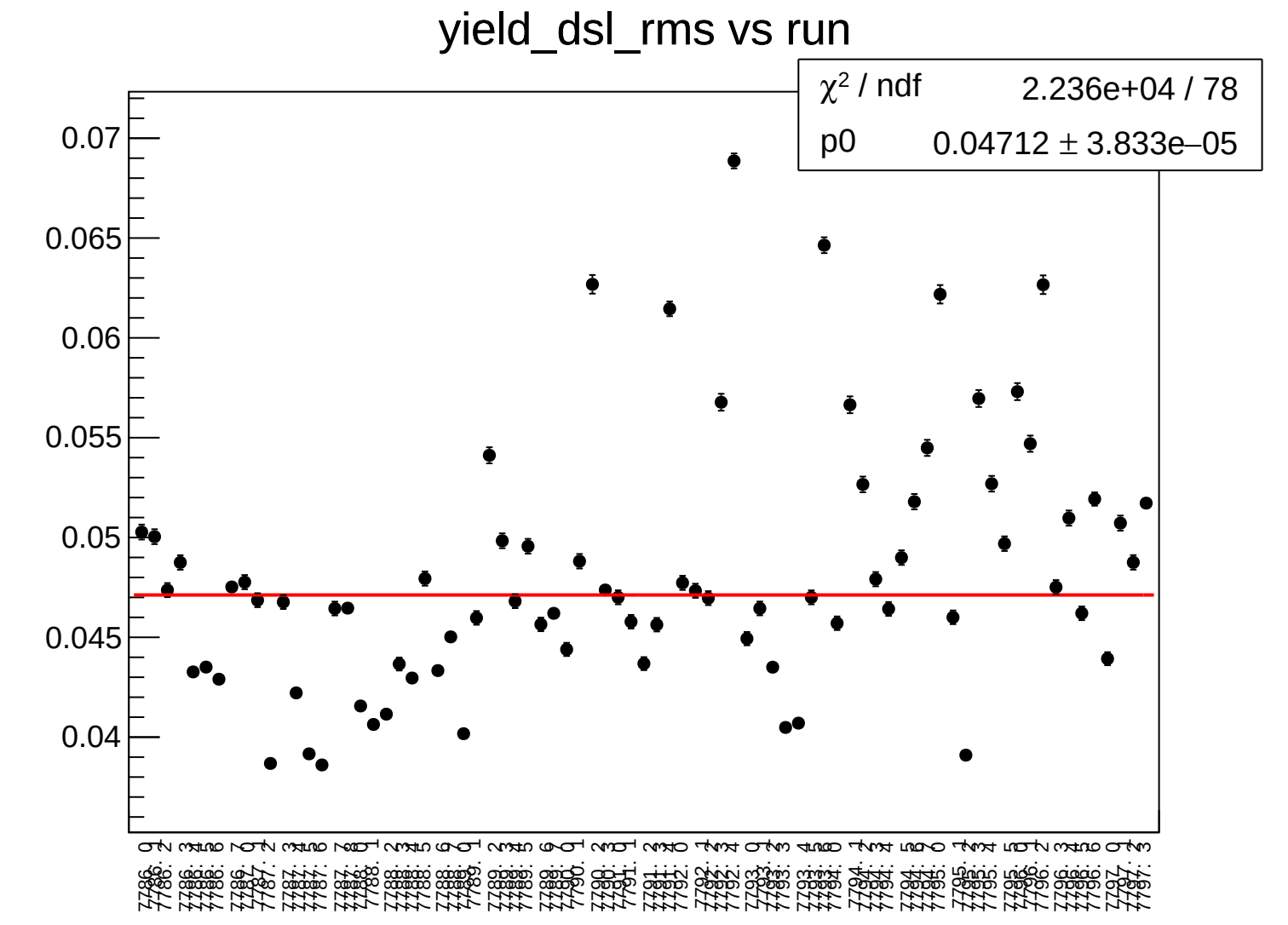

yield_usr_mean vs run
χ² / ndf 1.455e+05 / 78
p0 34.45 ± 0.000216
34.6
34.55
34.5
34.45
34.4
34.35
34.3
34.25
34.2
34.15
pull
Entries 79
Mean 487.9
Std Dev 0
50
0
−50
−100
−150

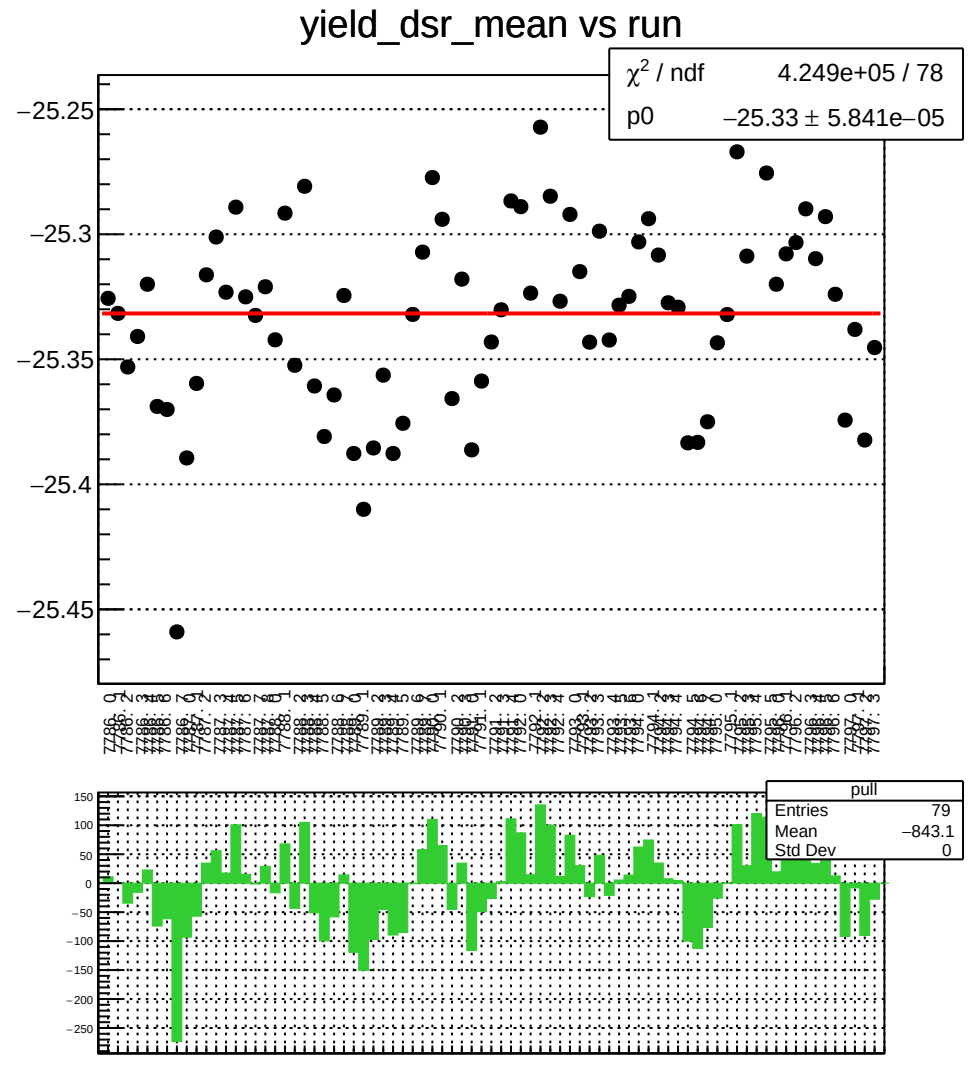

pull1D
Entries 79
Mean −0.208
Std Dev 4.175
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

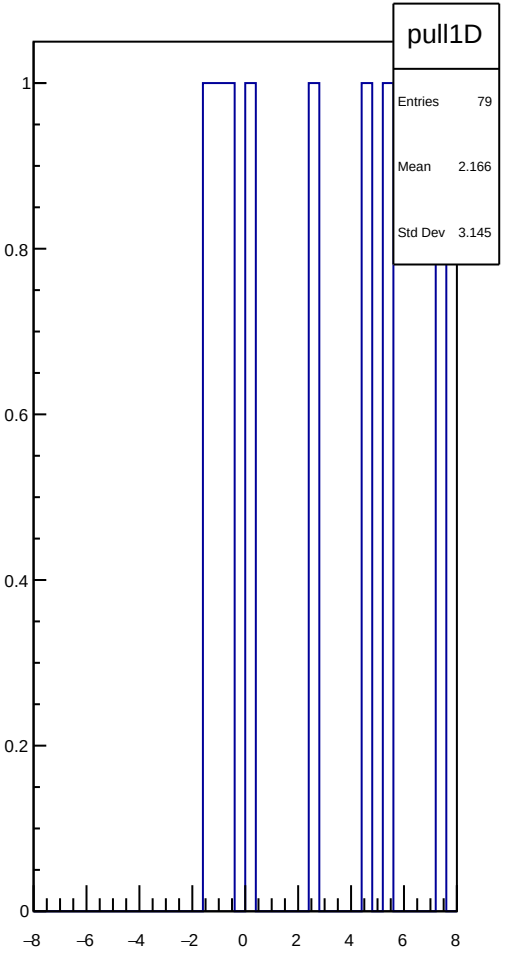

yield_usr_rms vs run
χ² / ndf 3.83e+04 / 78
p0 0.1868 ± 0.0001527
0.6
0.5
0.4
0.3
0.2

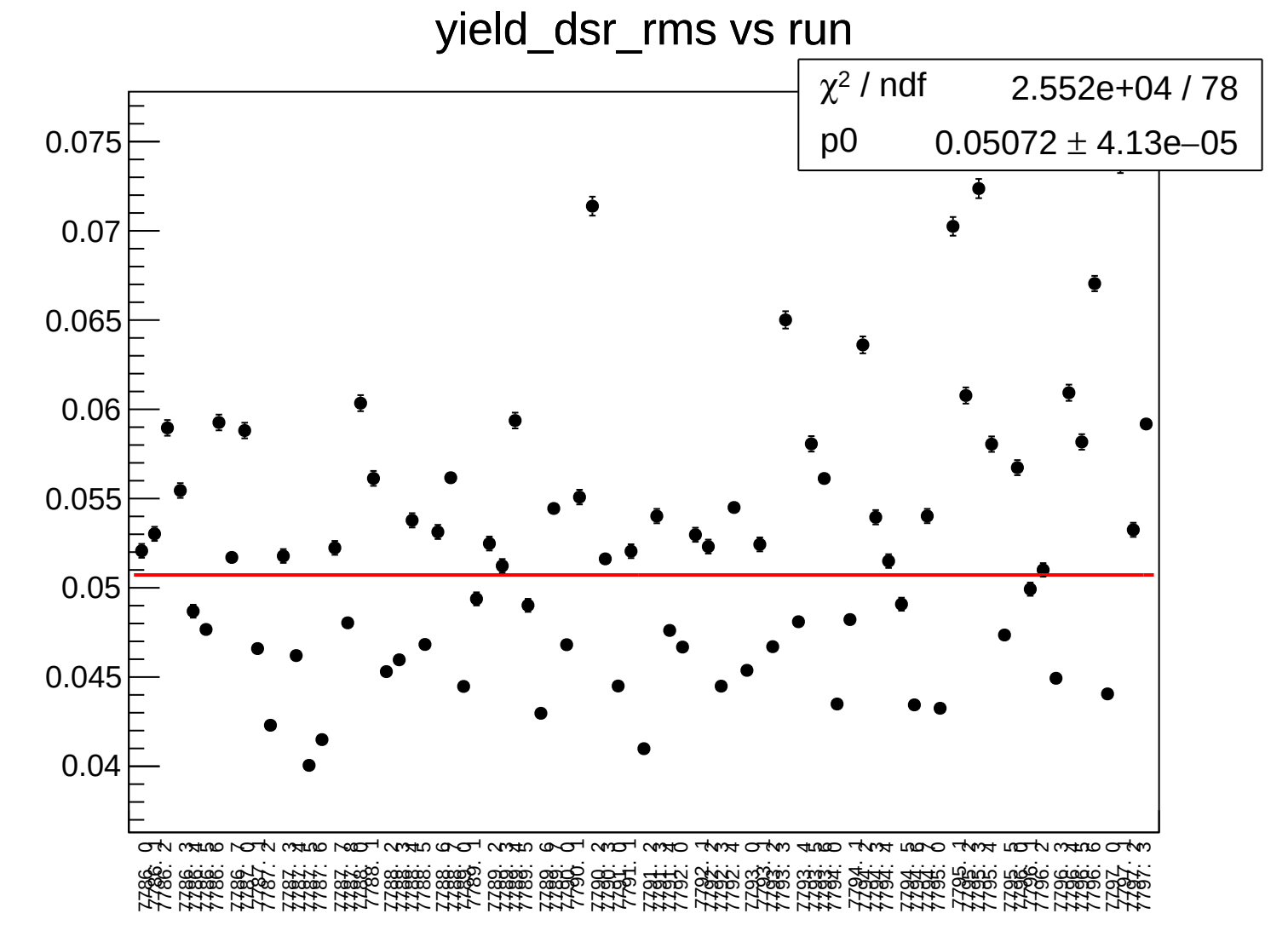

yield_dsl_mean vs run
χ² / ndf 9.101e+05 / 78
p0 −27.35 ± 5.42e−05
−27.25
−27.3
−27.35
−27.4
−27.45
−27.5
pull
Entries 79
Mean −856.5
Std Dev 0
200
100
0
−100
−200

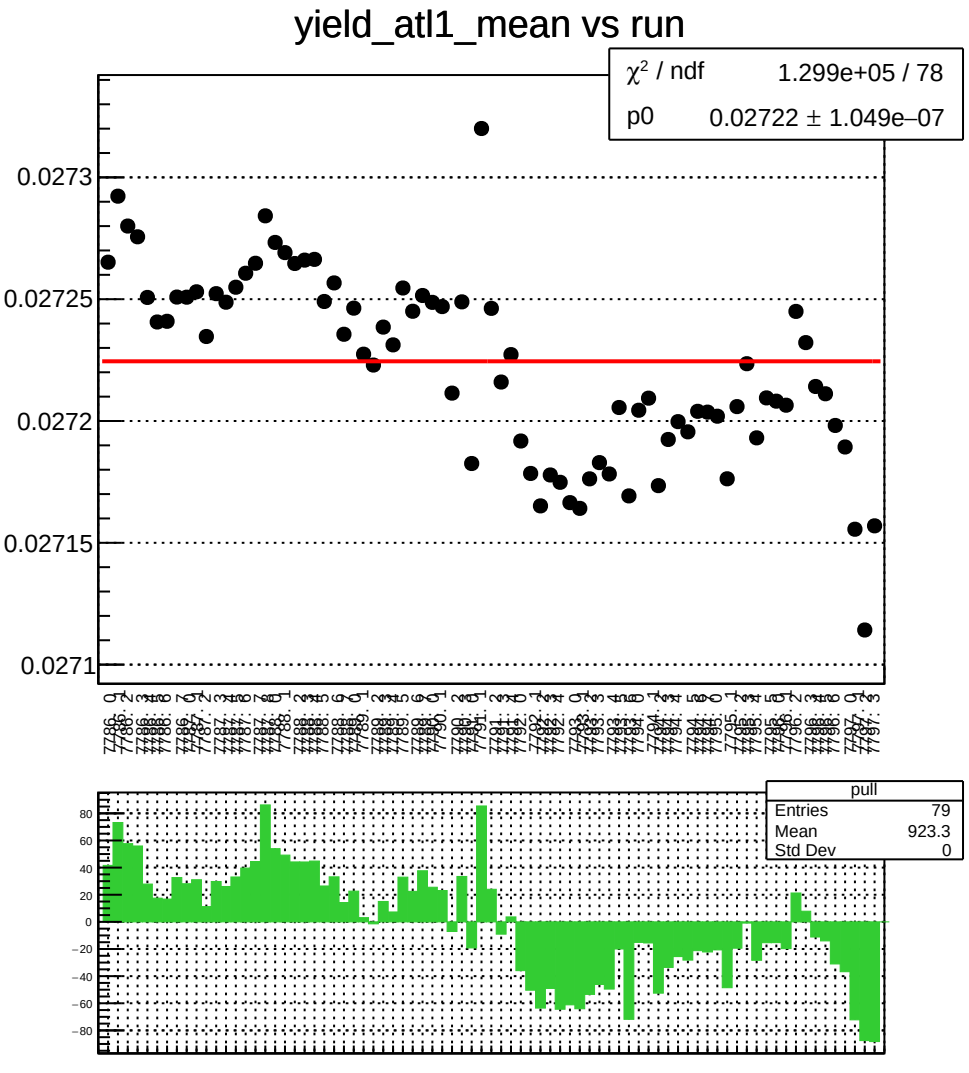

pull1D
Entries 79
Mean 0.7769
Std Dev 2.503
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

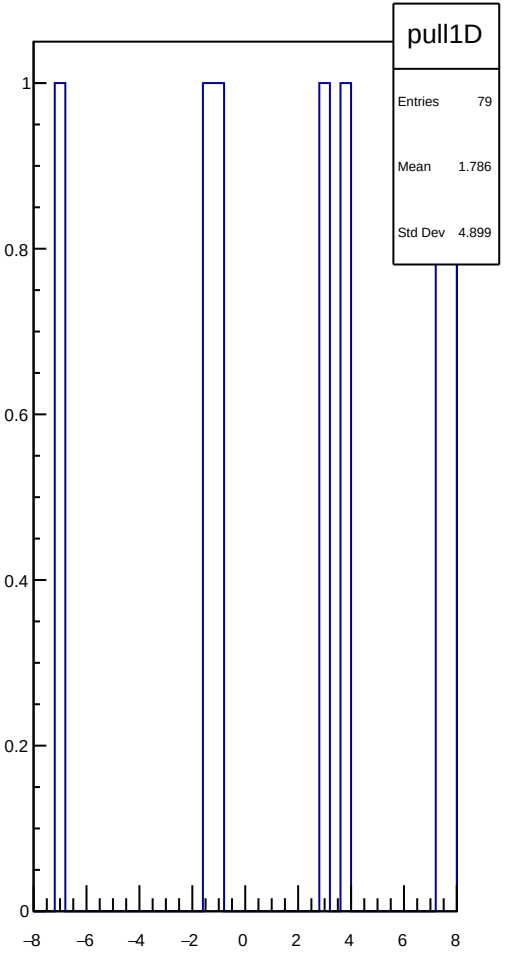

yield_dsl_rms vs run
χ² / ndf 2.236e+04 / 78
p0 0.04712 ± 3.833e–05
0.07
0.065
0.06
0.055
0.05
0.045
0.04

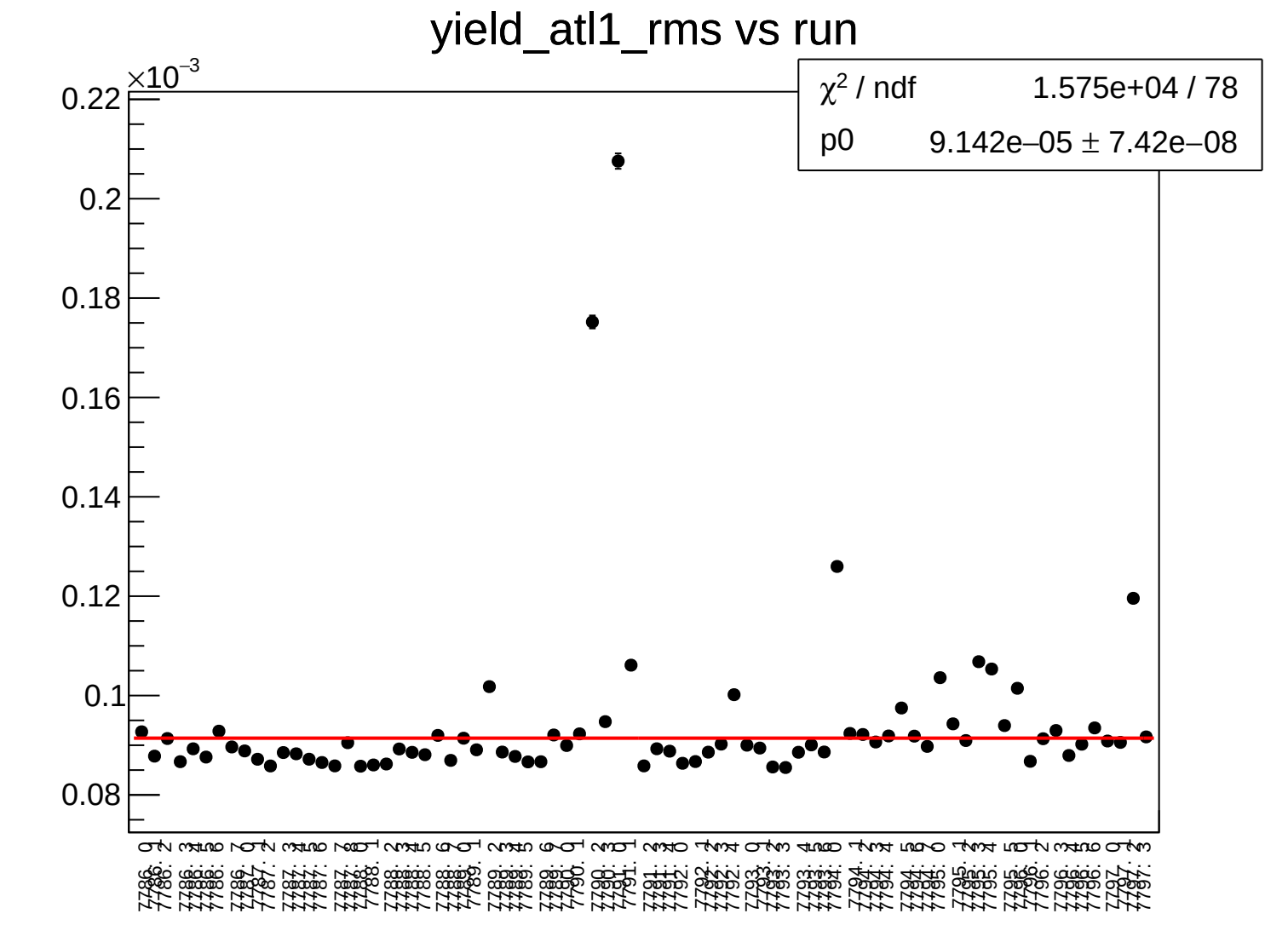

yield_dsr_mean vs run
χ² / ndf 4.249e+05 / 78
p0 −25.33 ± 5.841e−05
−25.25
−25.3
−25.35
−25.4
−25.45
pull
Entries 79
Mean −843.1
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

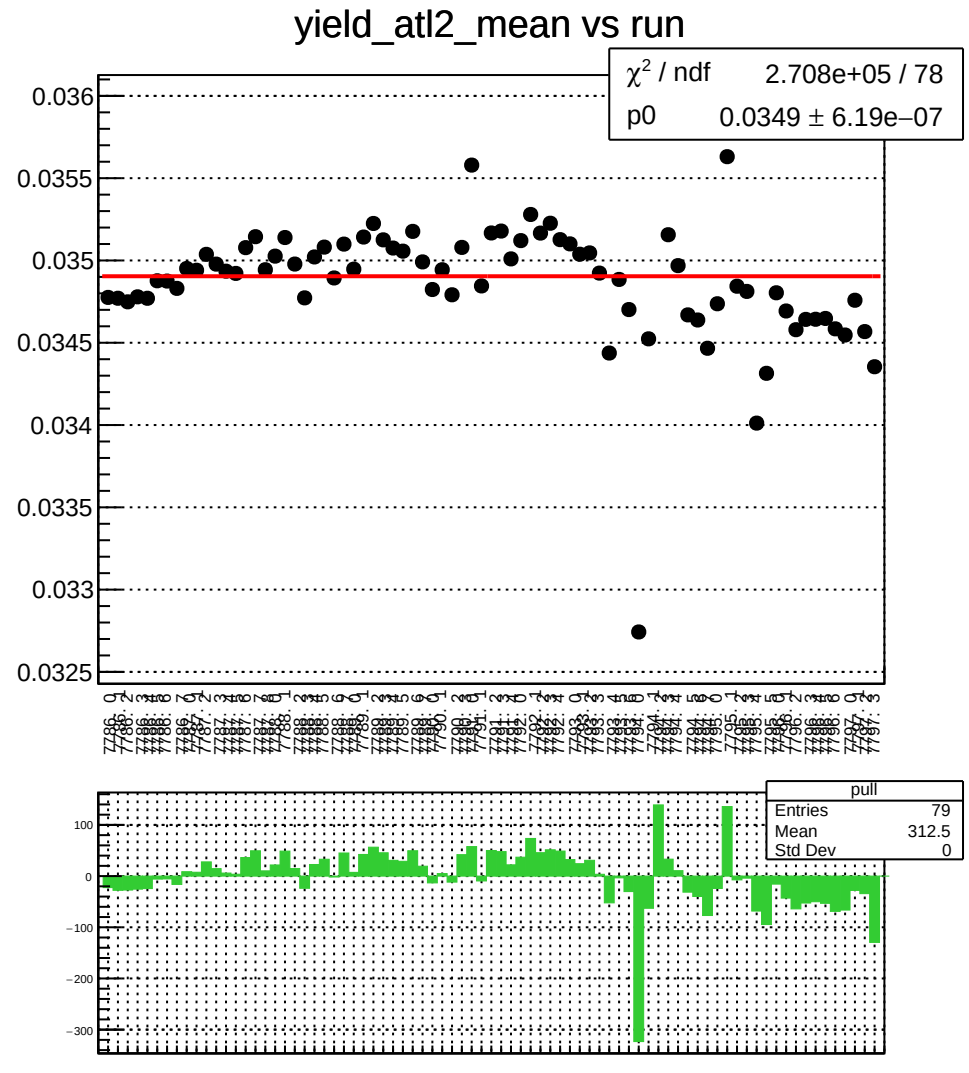

pull1D
Entries 79
Mean 2.166
Std Dev 3.145
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

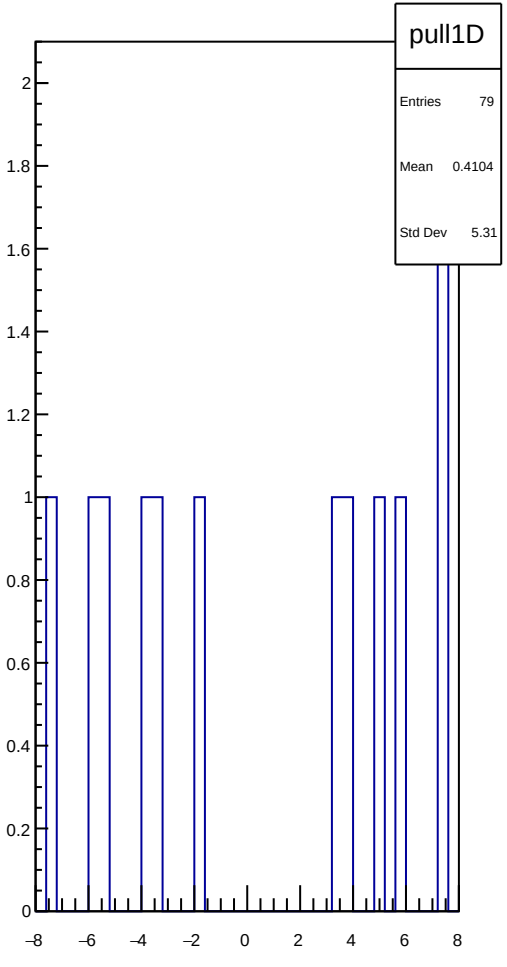

yield_dsr_rms vs run
χ² / ndf 2.552e+04 / 78
p0 0.05072 ± 4.13e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04

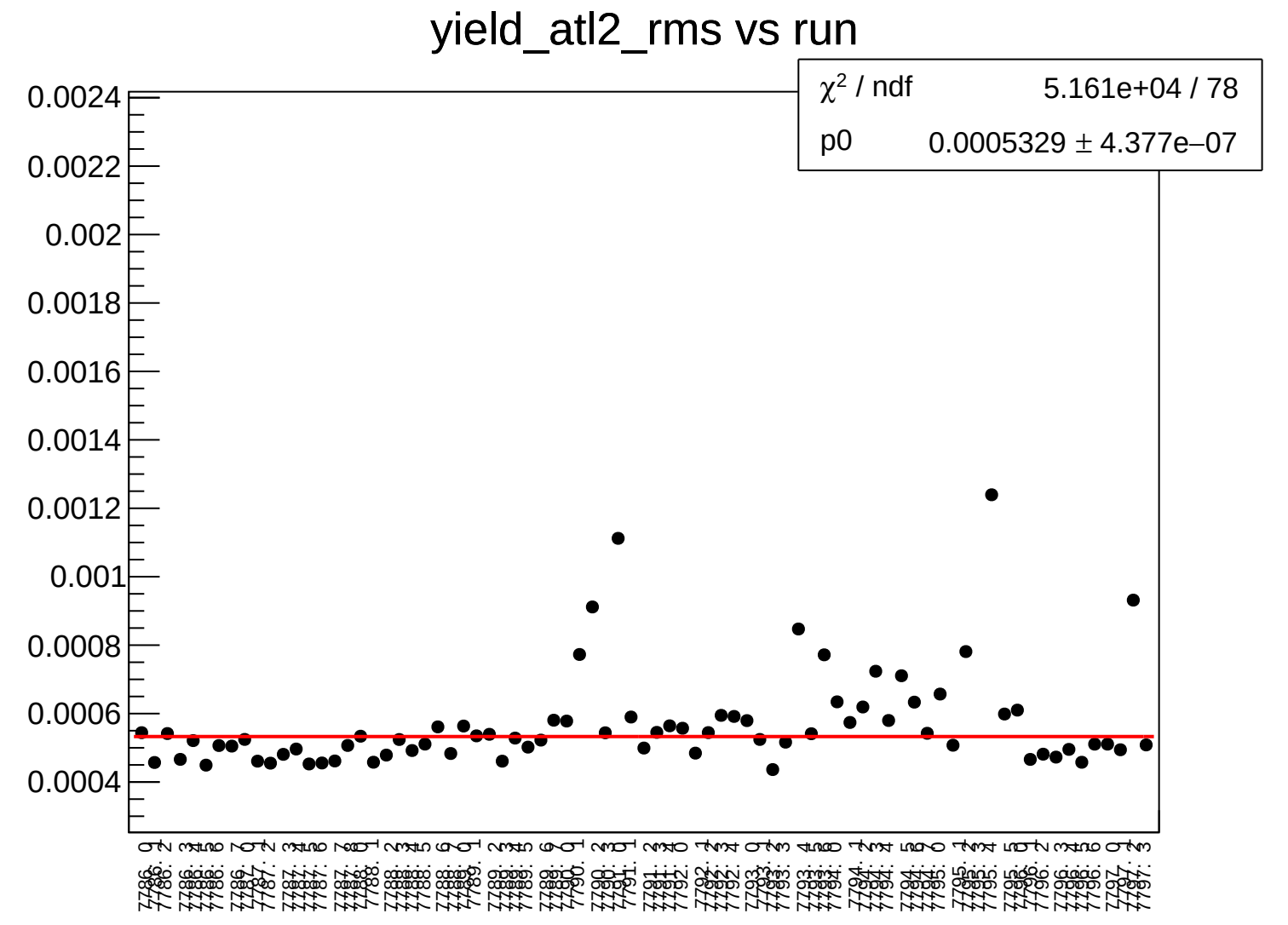

yield_atl1_mean vs run
χ² / ndf 1.299e+05 / 78
p0 0.02722 ± 1.049e−07
0.0273
0.02725
0.0272
0.02715
0.0271
pull
Entries 79
Mean 923.3
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

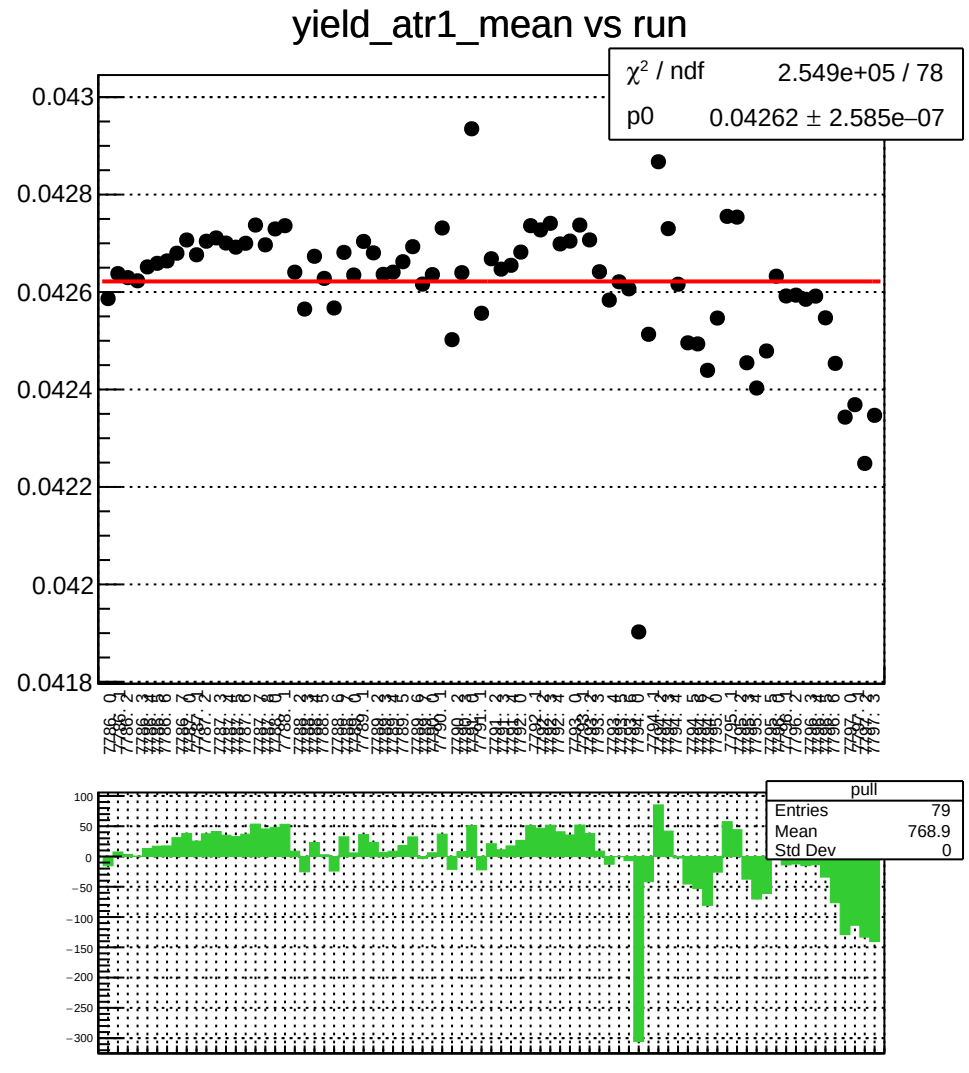

pull1D
Entries 79
Mean 1.786
Std Dev 4.899
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

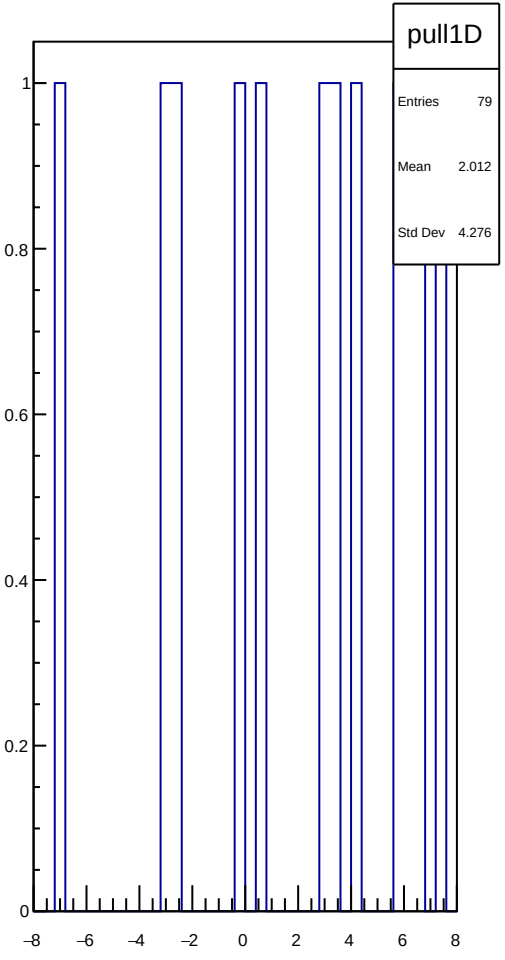

yield_atl1_rms vs run
×10⁻³
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
χ² / ndf 1.575e+04 / 78
p0 9.142e−05 ± 7.42e−08

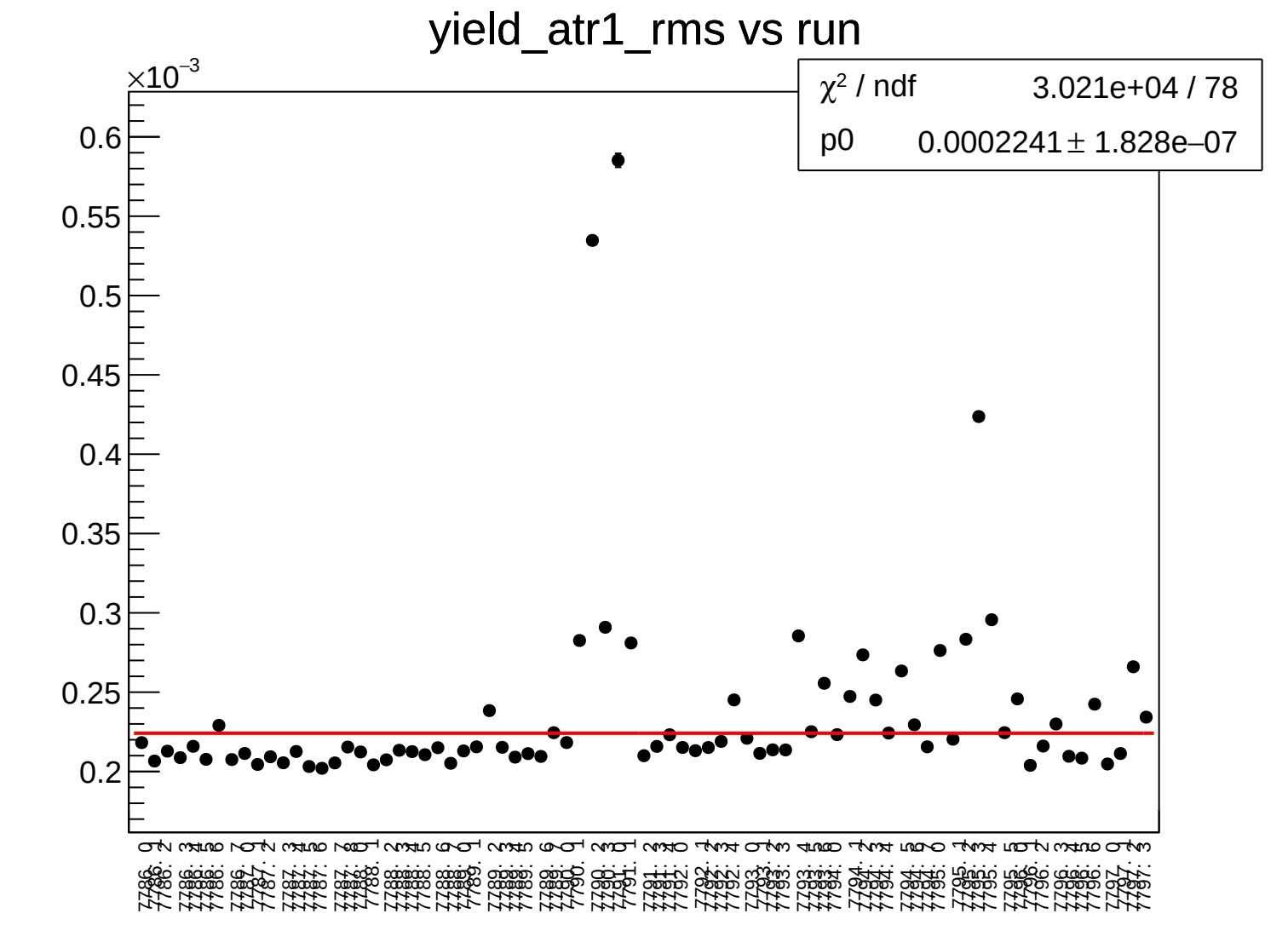

yield_atl2_mean vs run
χ² / ndf 2.708e+05 / 78
p0 0.0349 ± 6.19e−07
0.036
0.0355
0.035
0.0345
0.034
0.0335
0.033
0.0325
pull
Entries 79
Mean 312.5
Std Dev 0
100
0
−100
−200
−300

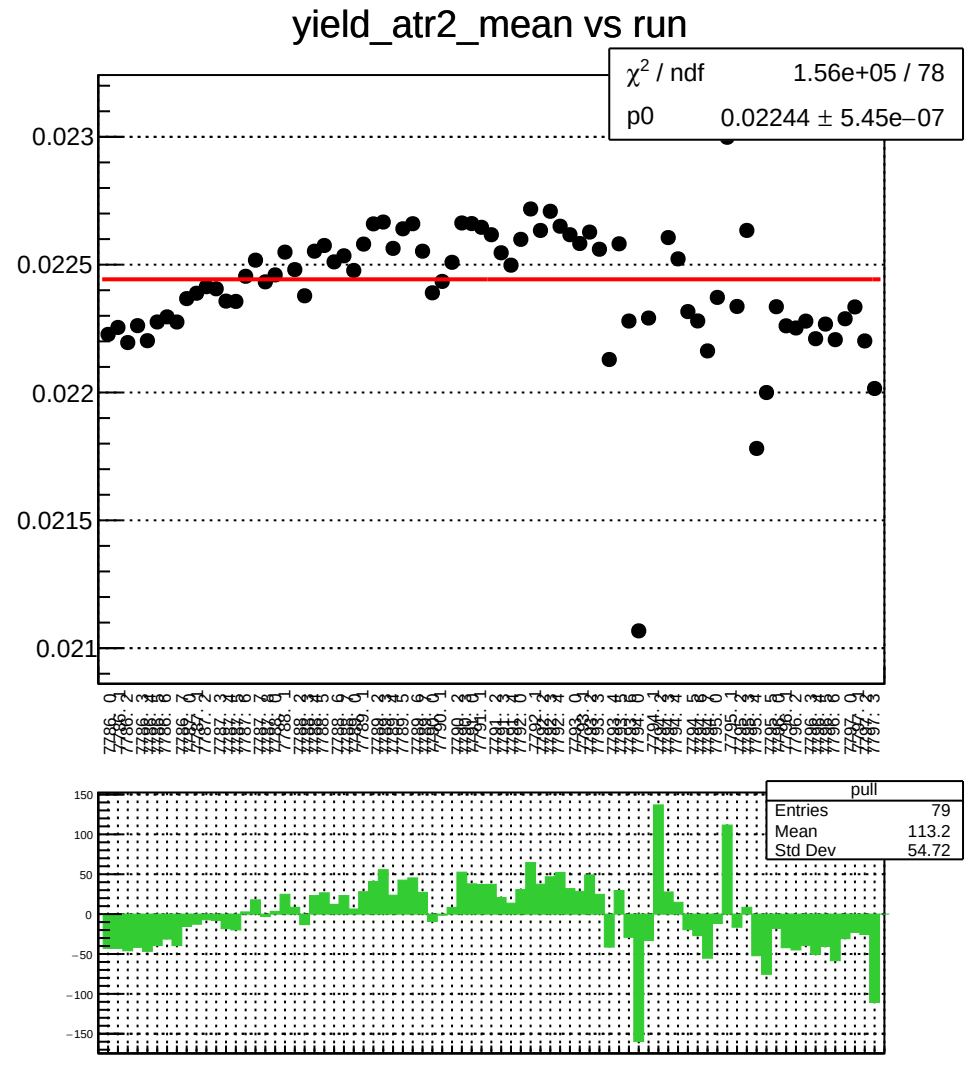

pull1D
Entries 79
Mean 0.4104
Std Dev 5.31
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

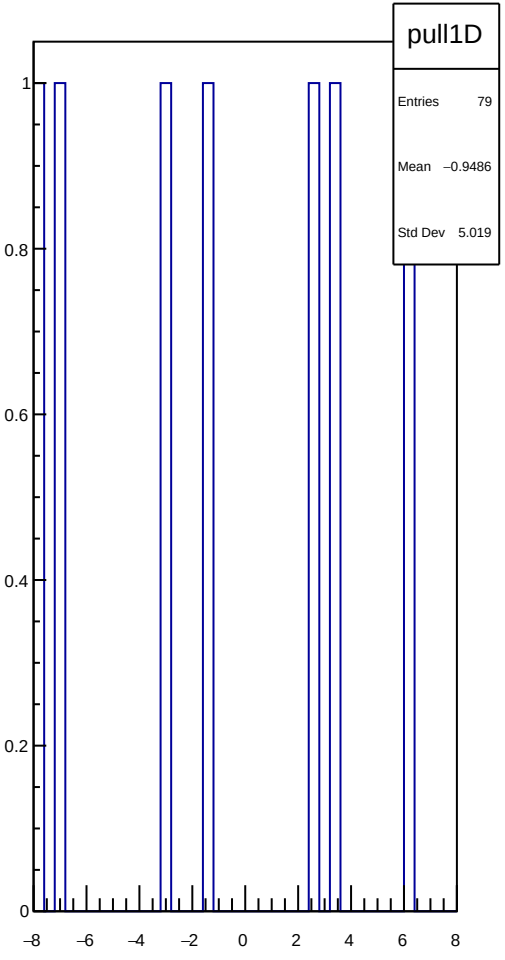

yield_atl2_rms vs run
χ² / ndf 5.161e+04 / 78
p0 0.0005329 ± 4.377e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

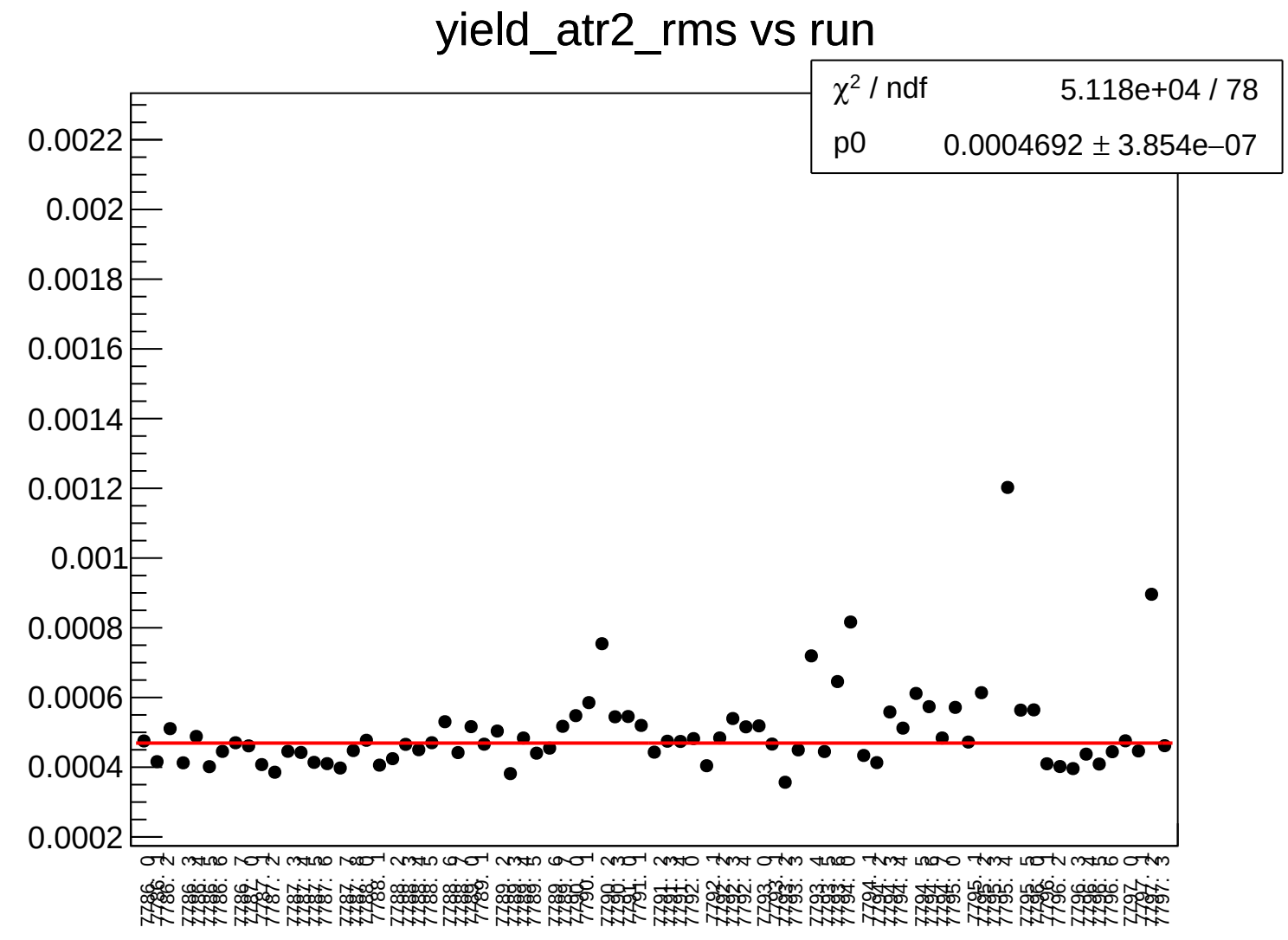

yield_atr1_mean vs run
χ² / ndf 2.549e+05 / 78
p0 0.04262 ± 2.585e−07
0.043
0.0428
0.0426
0.0424
0.0422
0.042
0.0418
pull
Entries 79
Mean 768.9
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300

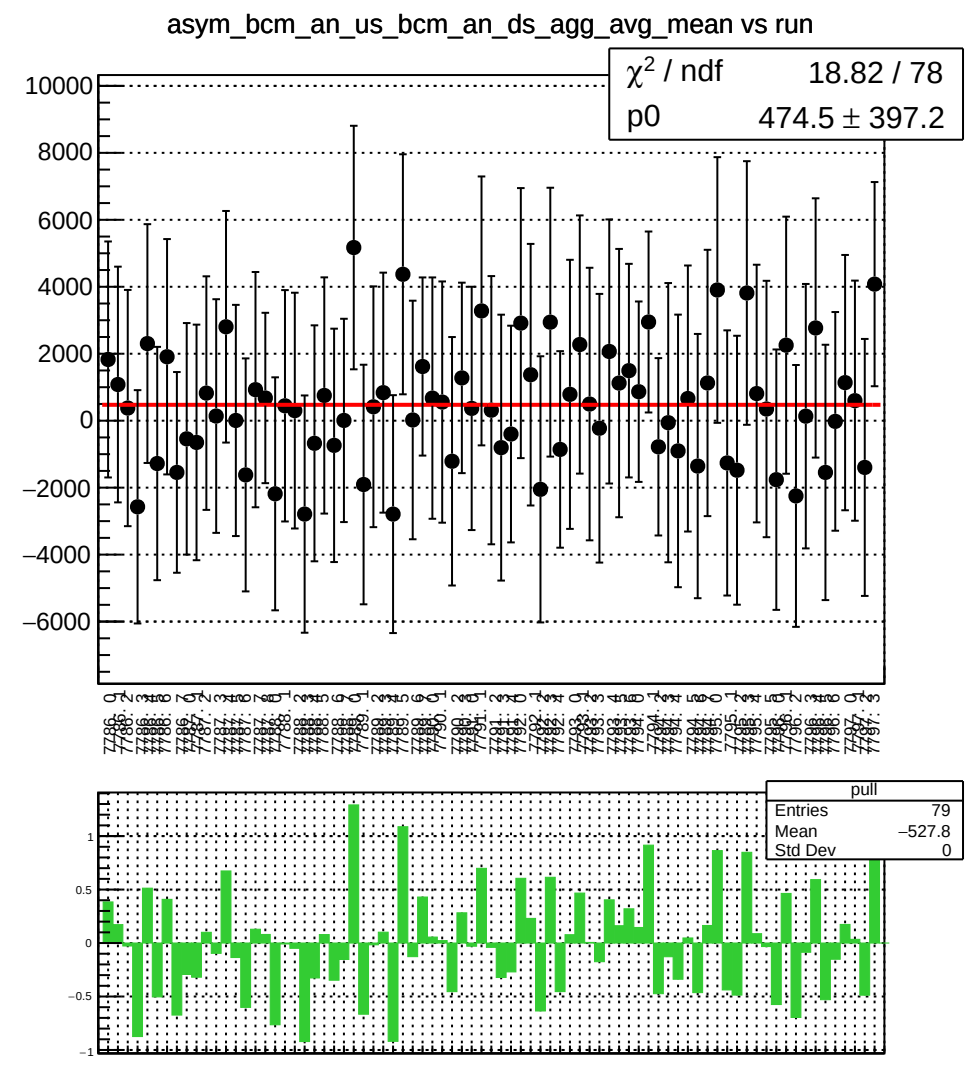

pull1D
Entries 79
Mean 2.012
Std Dev 4.276
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

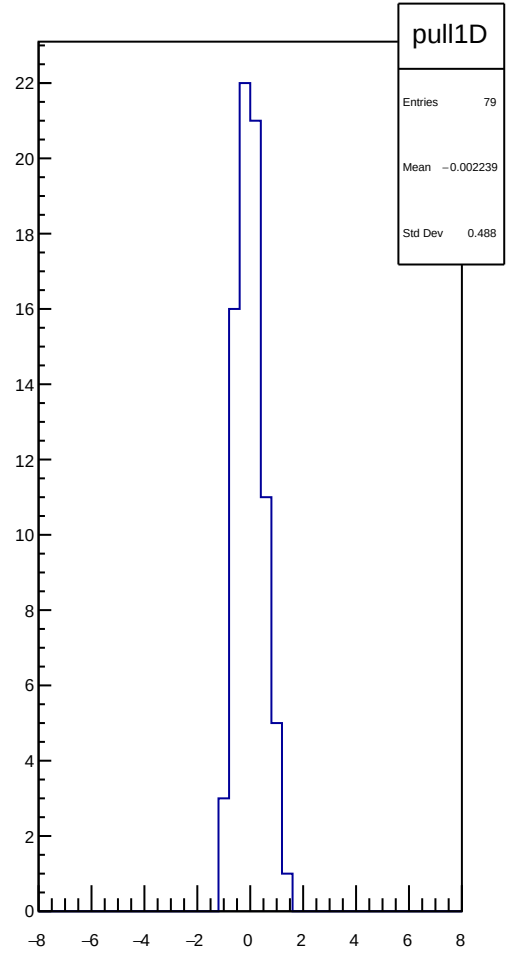

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3.021e+04 / 78
p0 0.0002241 ± 1.828e−07
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

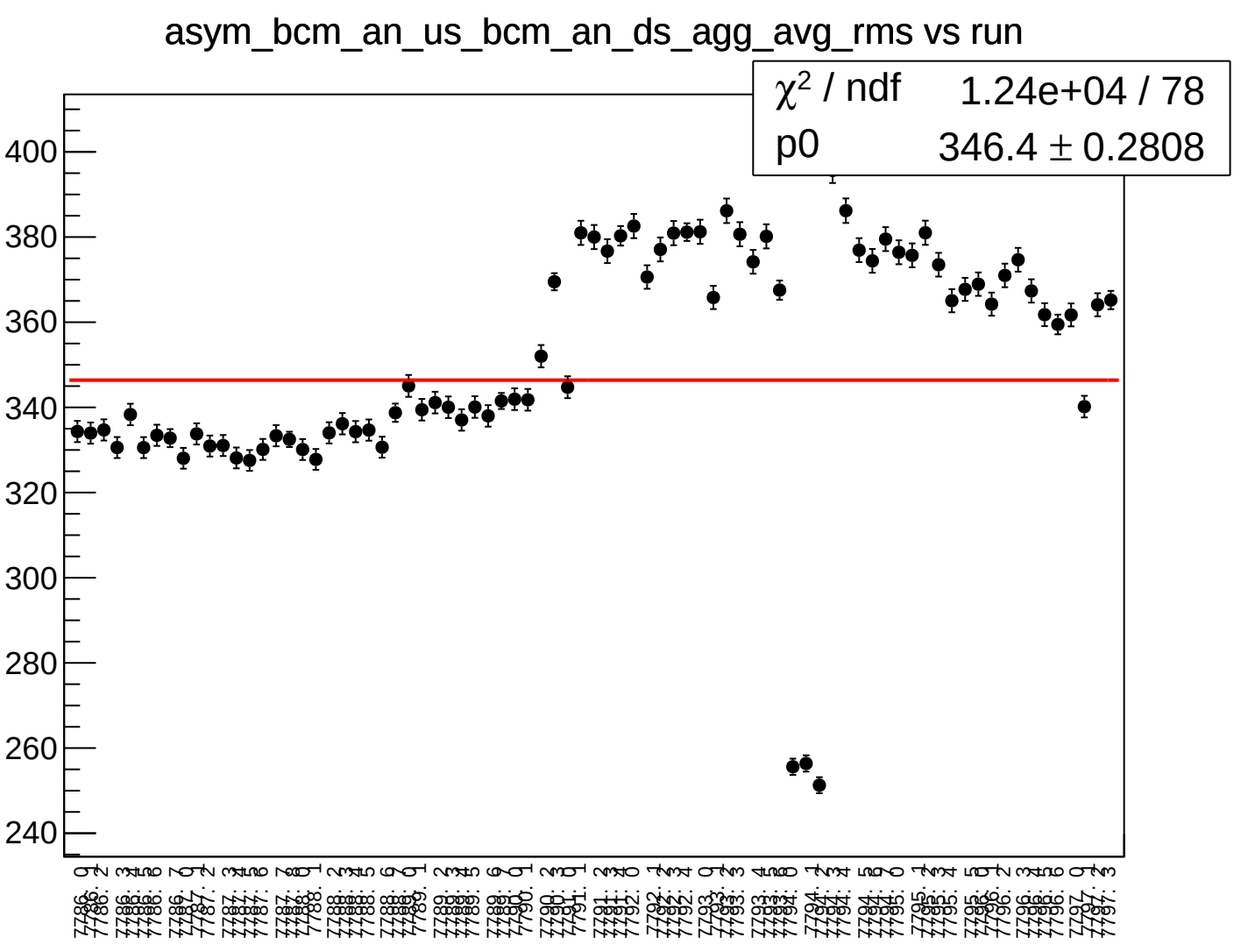

yield_atr2_mean vs run
χ² / ndf 1.56e+05 / 78
p0 0.02244 ± 5.45e−07
0.023
0.0225
0.022
0.0215
0.021
pull
Entries 79
Mean 113.2
Std Dev 54.72
150
100
50
0
−50
−100
−150

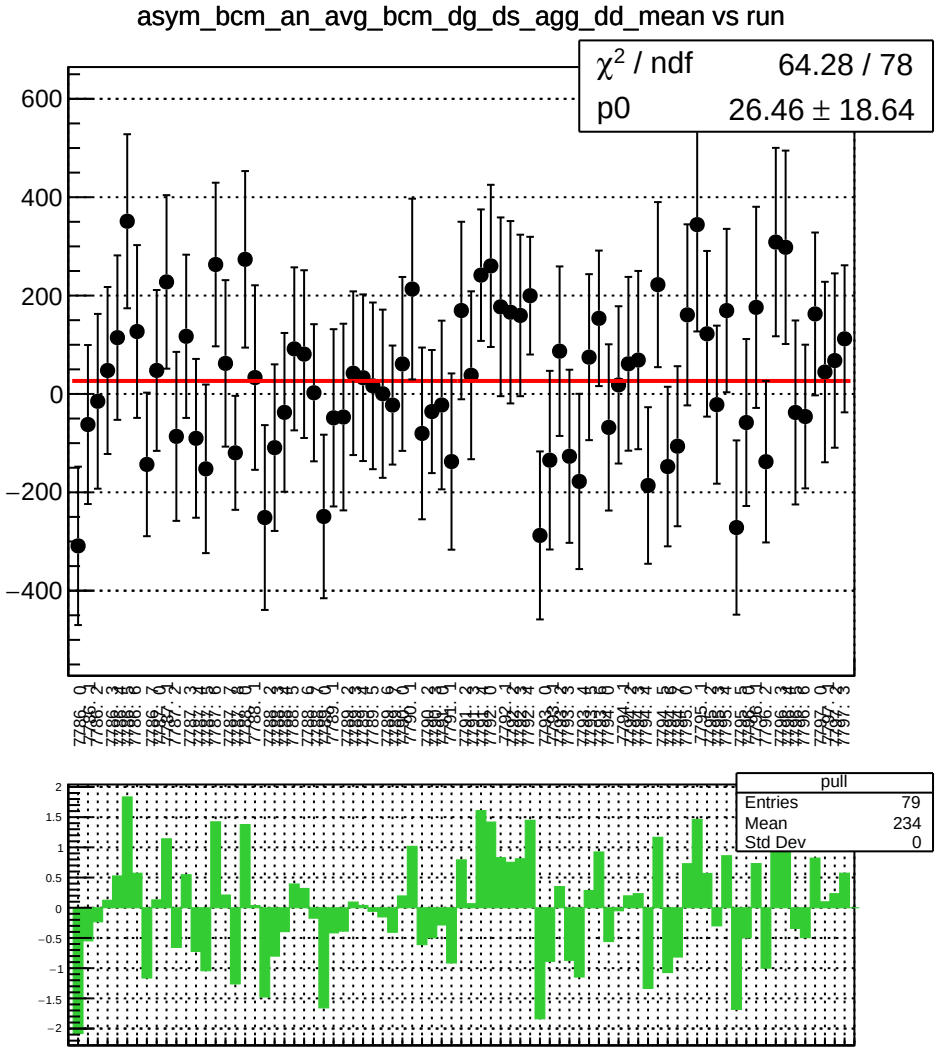

pull1D
Entries 79
Mean −0.9486
Std Dev 5.019
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

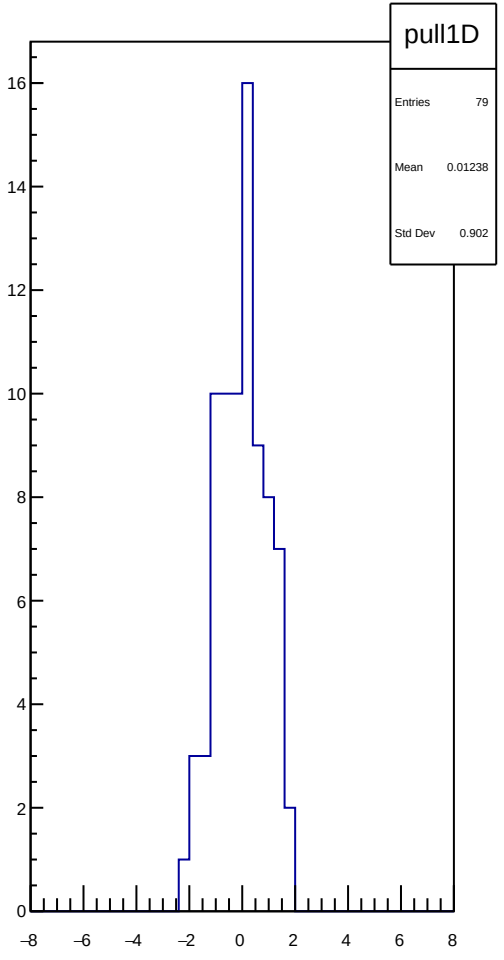

yield_atr2_rms vs run
χ² / ndf 5.118e+04 / 78
p0 0.0004692 ± 3.854e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

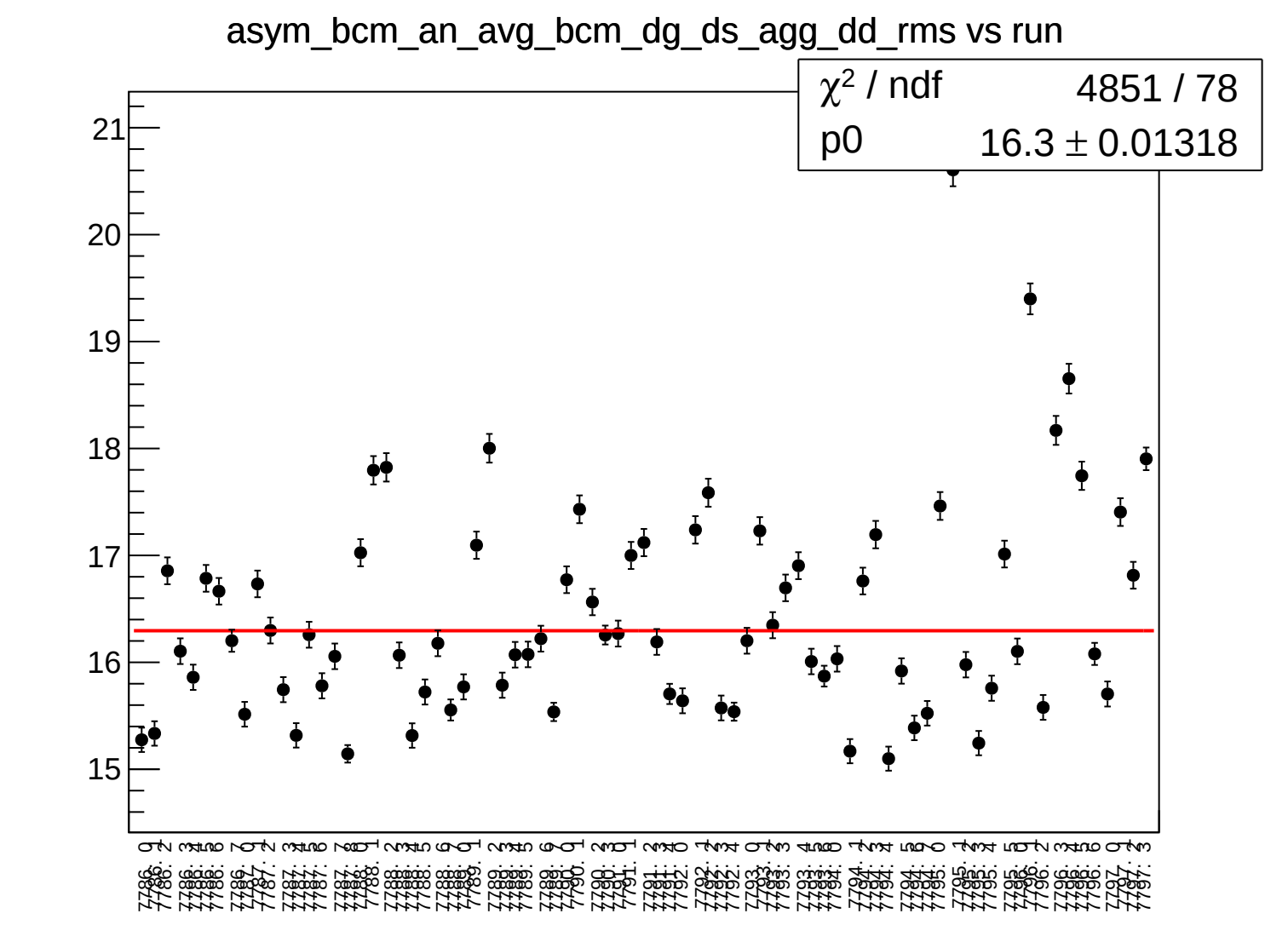

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.82 / 78
p0 474.5 ± 397.2
pull
Entries 79
Mean −527.8
Std Dev 0

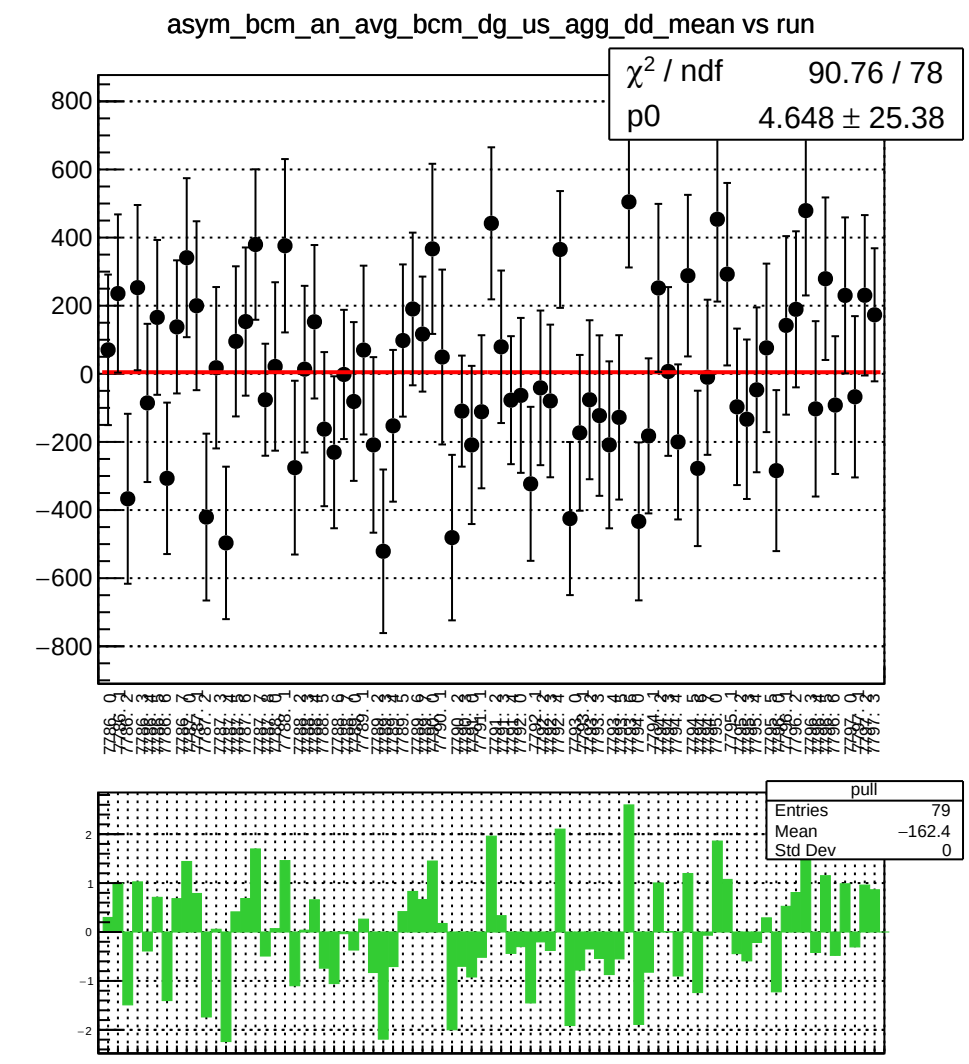

pull1D
Entries 79
Mean −0.002239
Std Dev 0.488

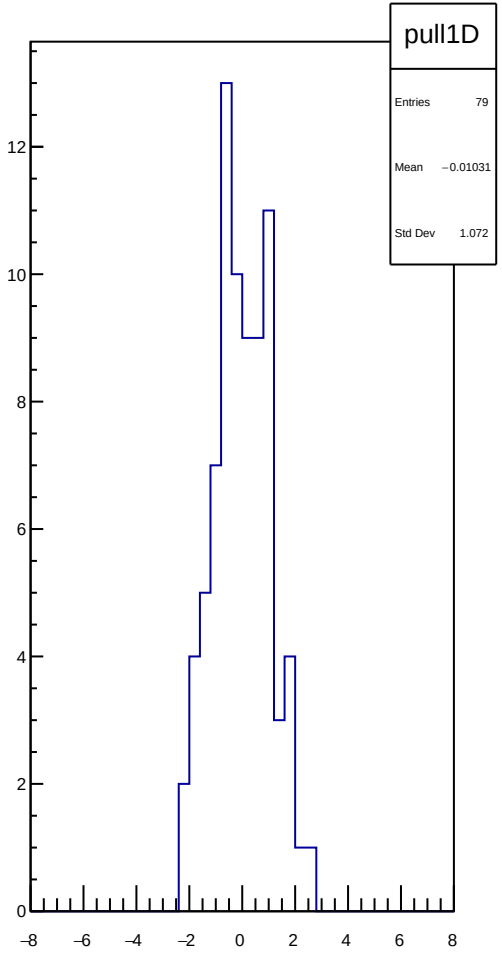

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.24e+04 / 78
p0 346.4 ± 0.2808
400
380
360
340
320
300
280
260
240

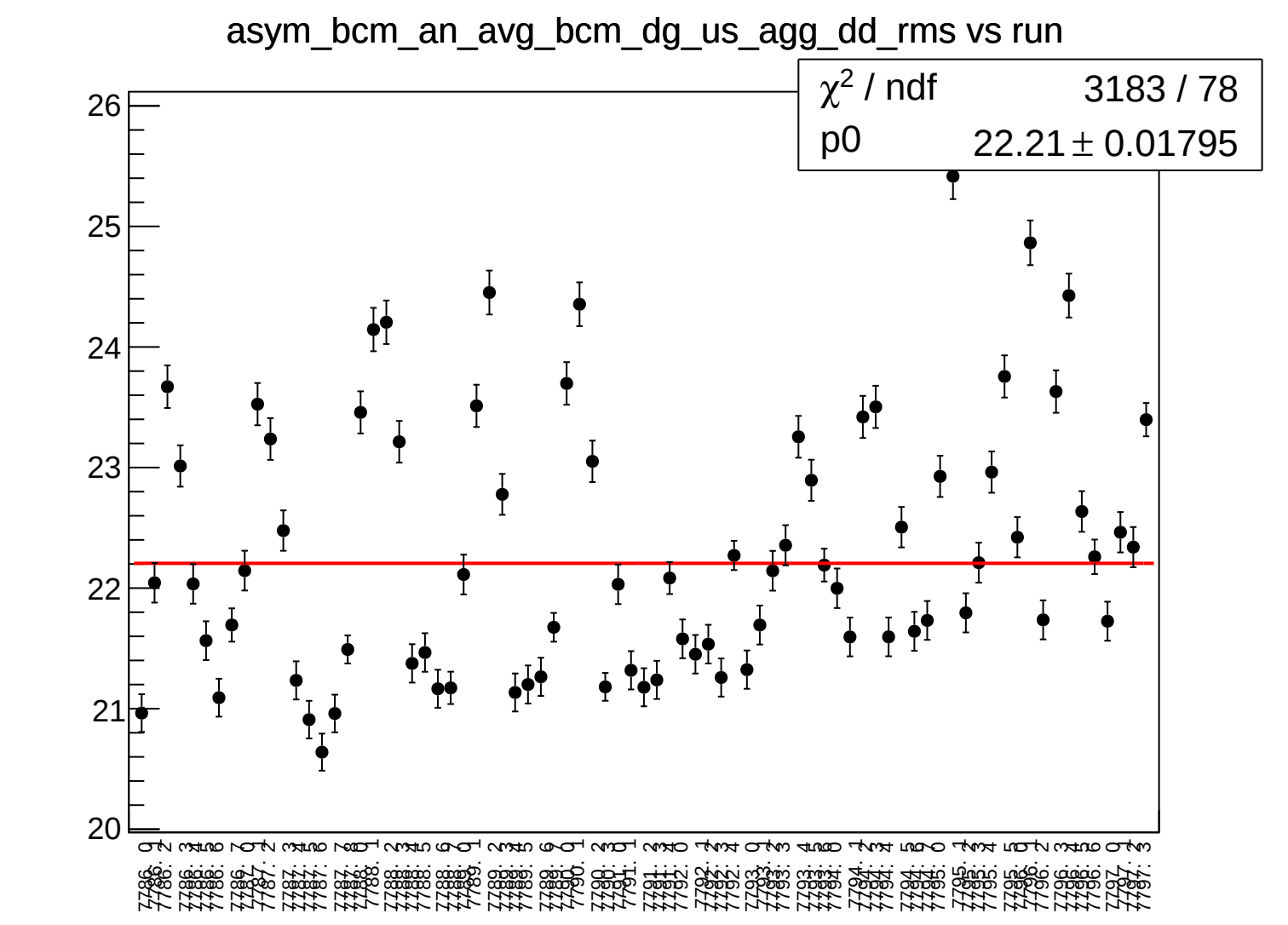

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 64.28 / 78
p0 26.46 ± 18.64
pull
Entries 79
Mean 234
Std Dev 0

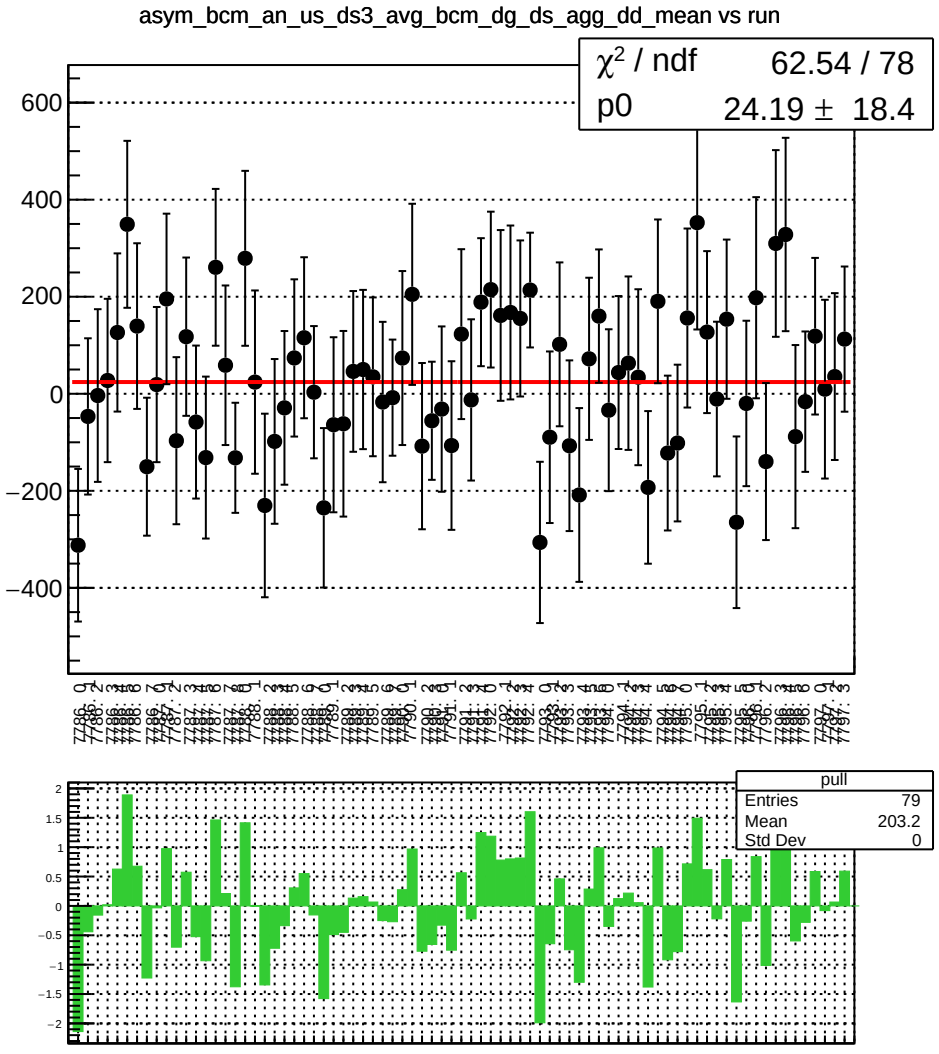

pull1D
Entries 79
Mean 0.01238
Std Dev 0.902

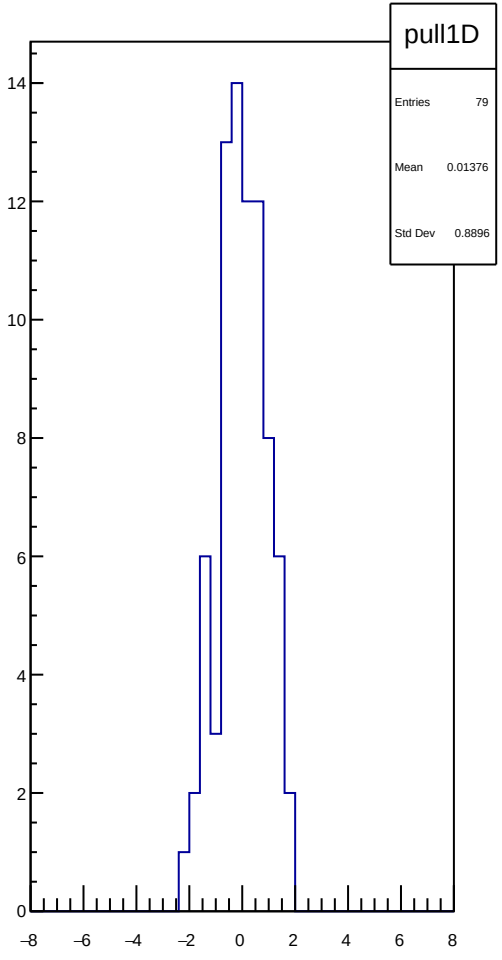

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4851 / 78
p0 16.3 ± 0.01318
21
20
19
18
17
16
15

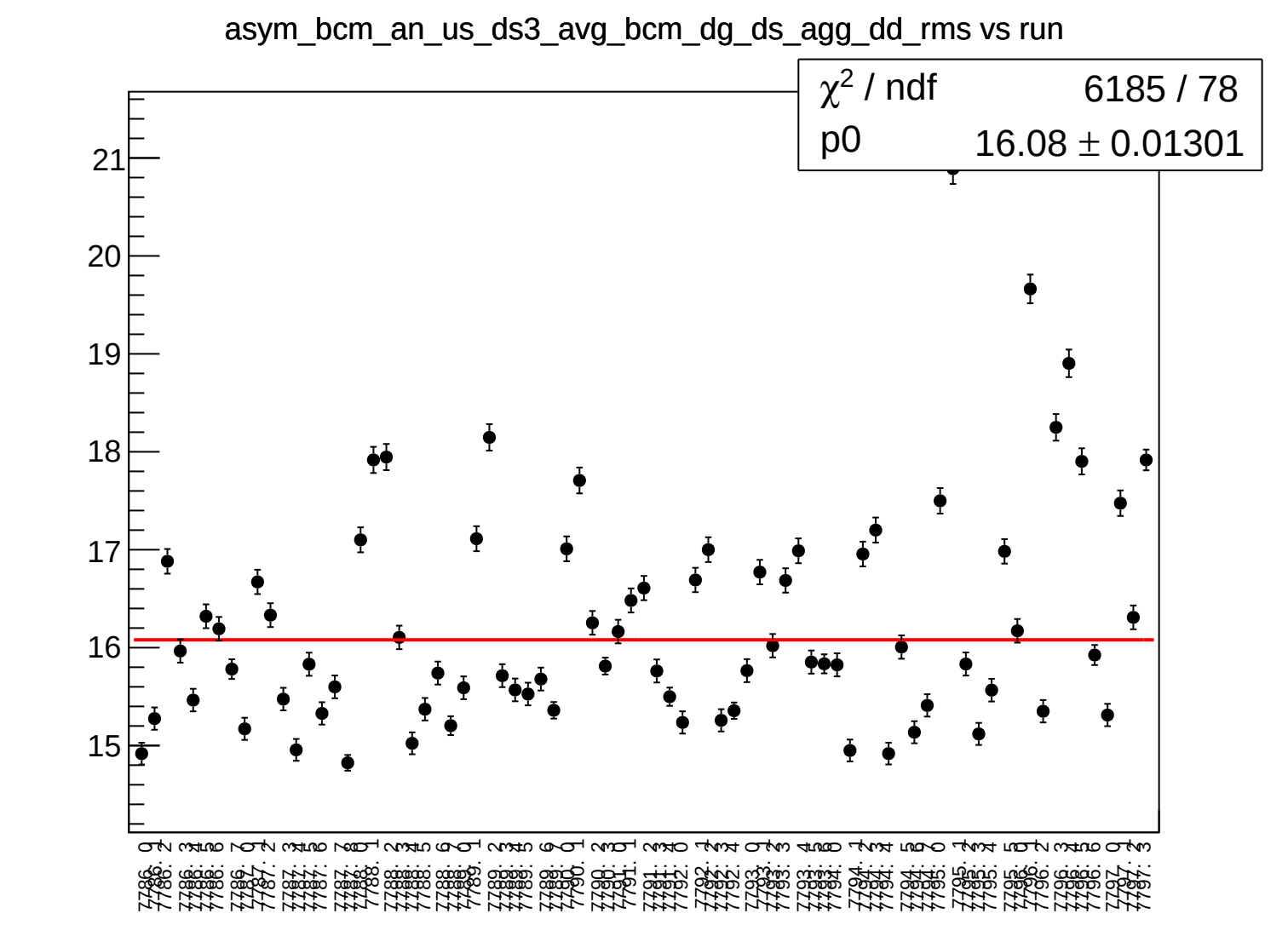

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 90.76 / 78
p0 4.648 ± 25.38
pull
Entries 79
Mean −162.4
Std Dev 0

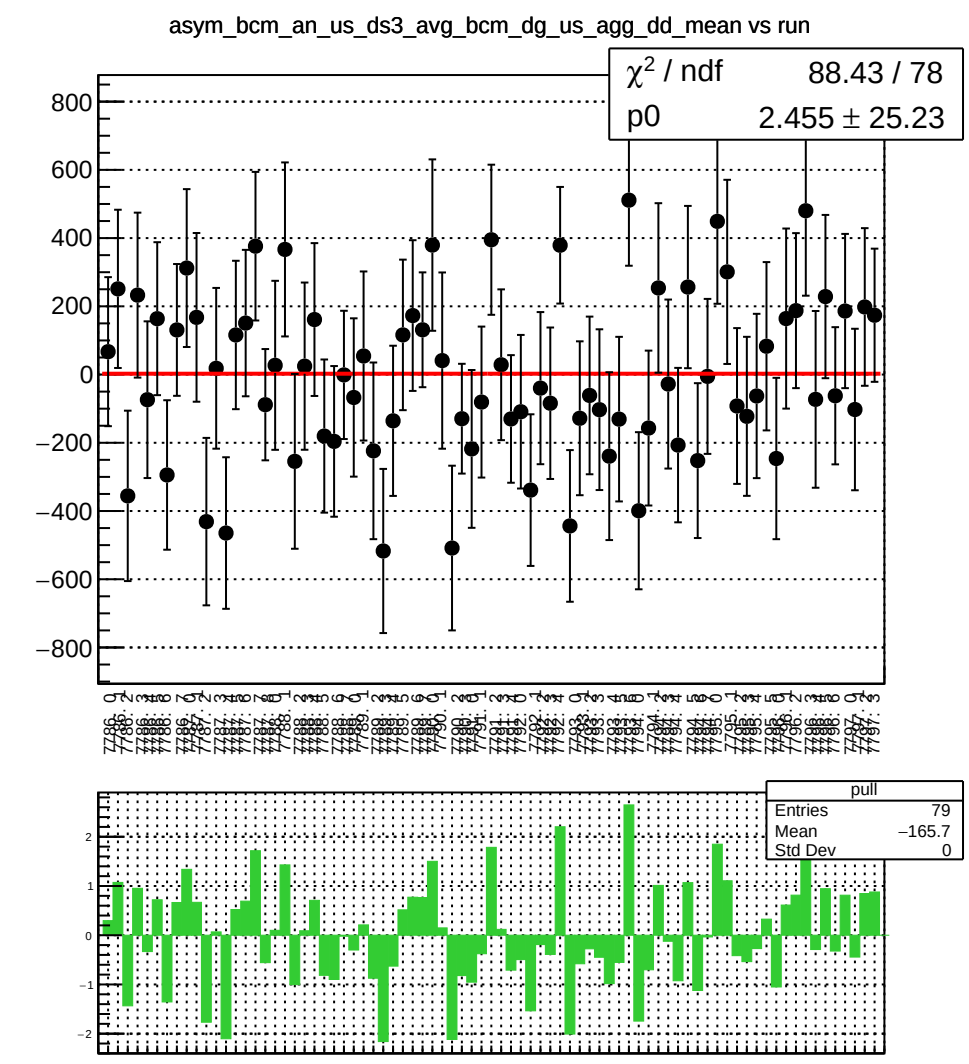

pull1D
Entries 79
Mean −0.01031
Std Dev 1.072

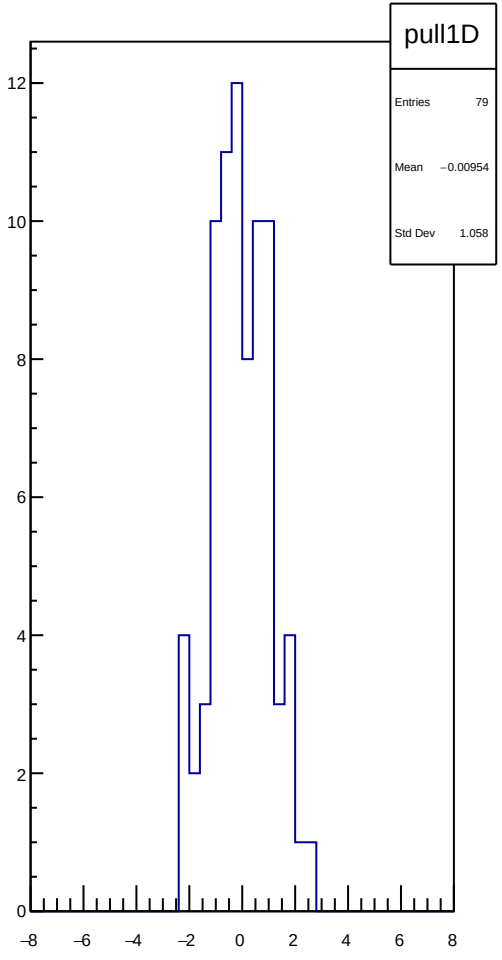

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3183 / 78
p0 22.21 ± 0.01795
26
25
24
23
22
21
20

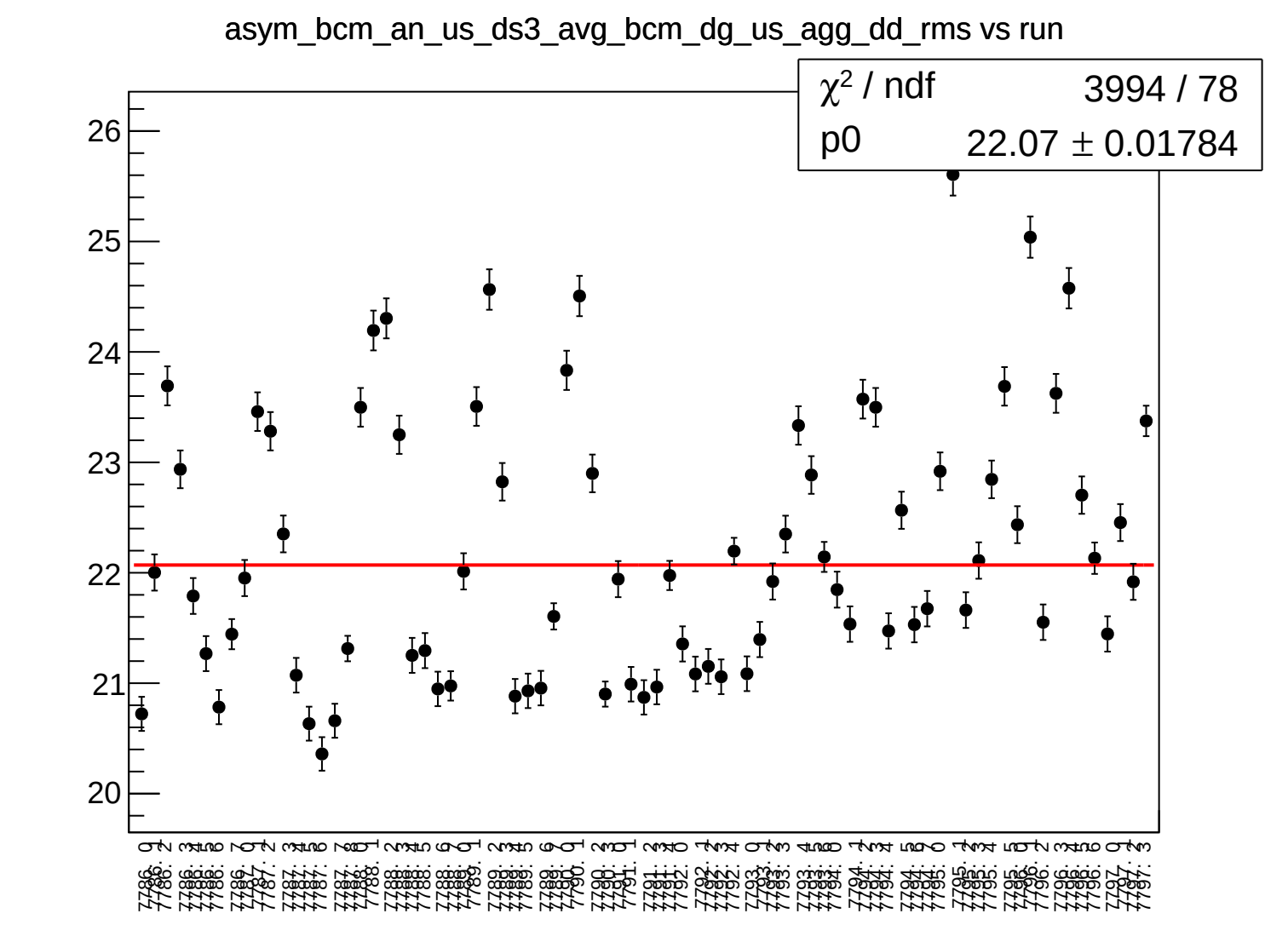

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 62.54 / 78
p0 24.19 ± 18.4
pull
Entries 79
Mean 203.2
Std Dev 0

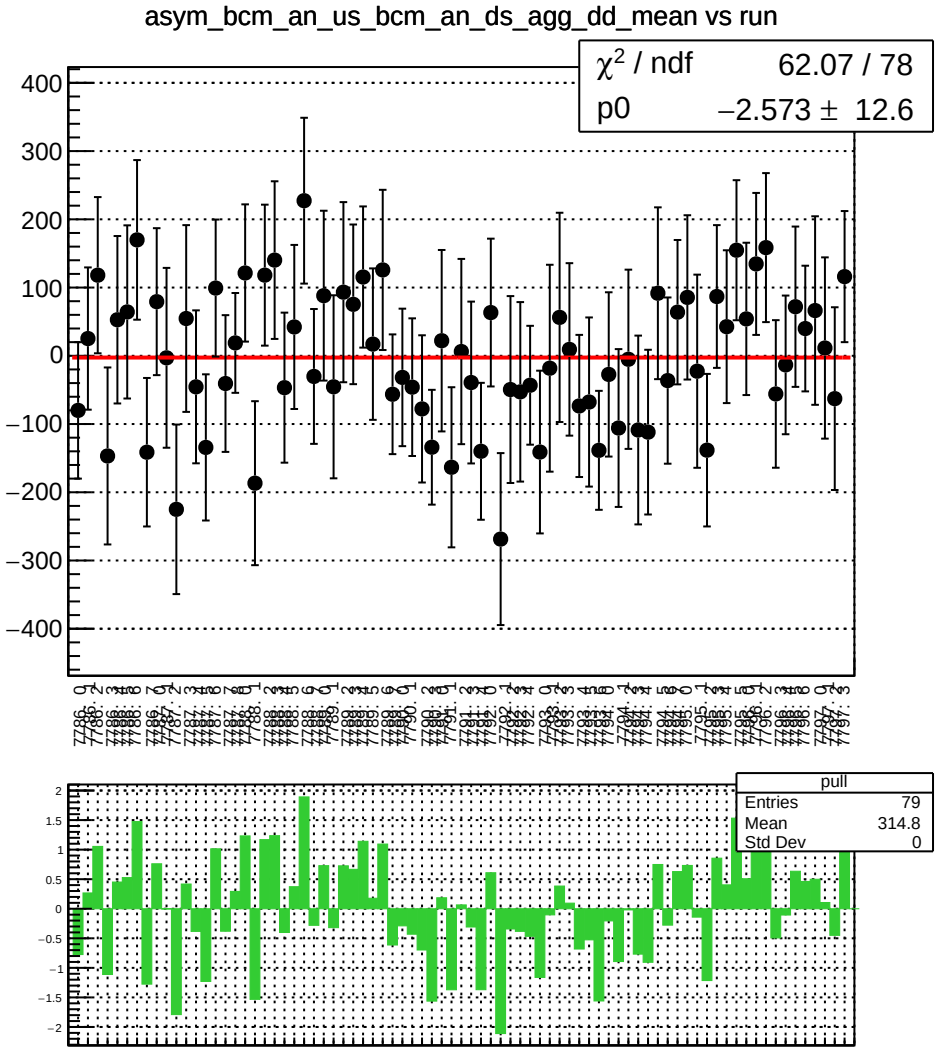

pull1D
Entries 79
Mean 0.01376
Std Dev 0.8896

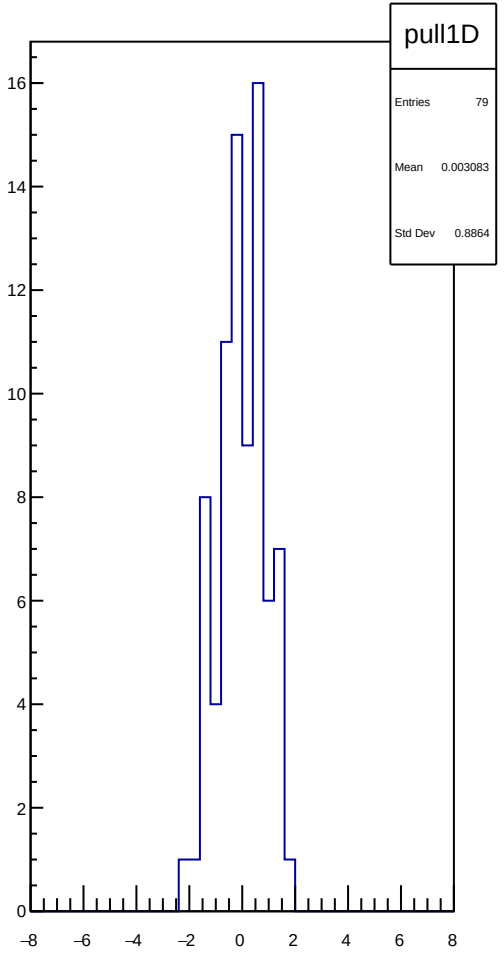

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6185 / 78
p0 16.08 ± 0.01301
21
20
19
18
17
16
15

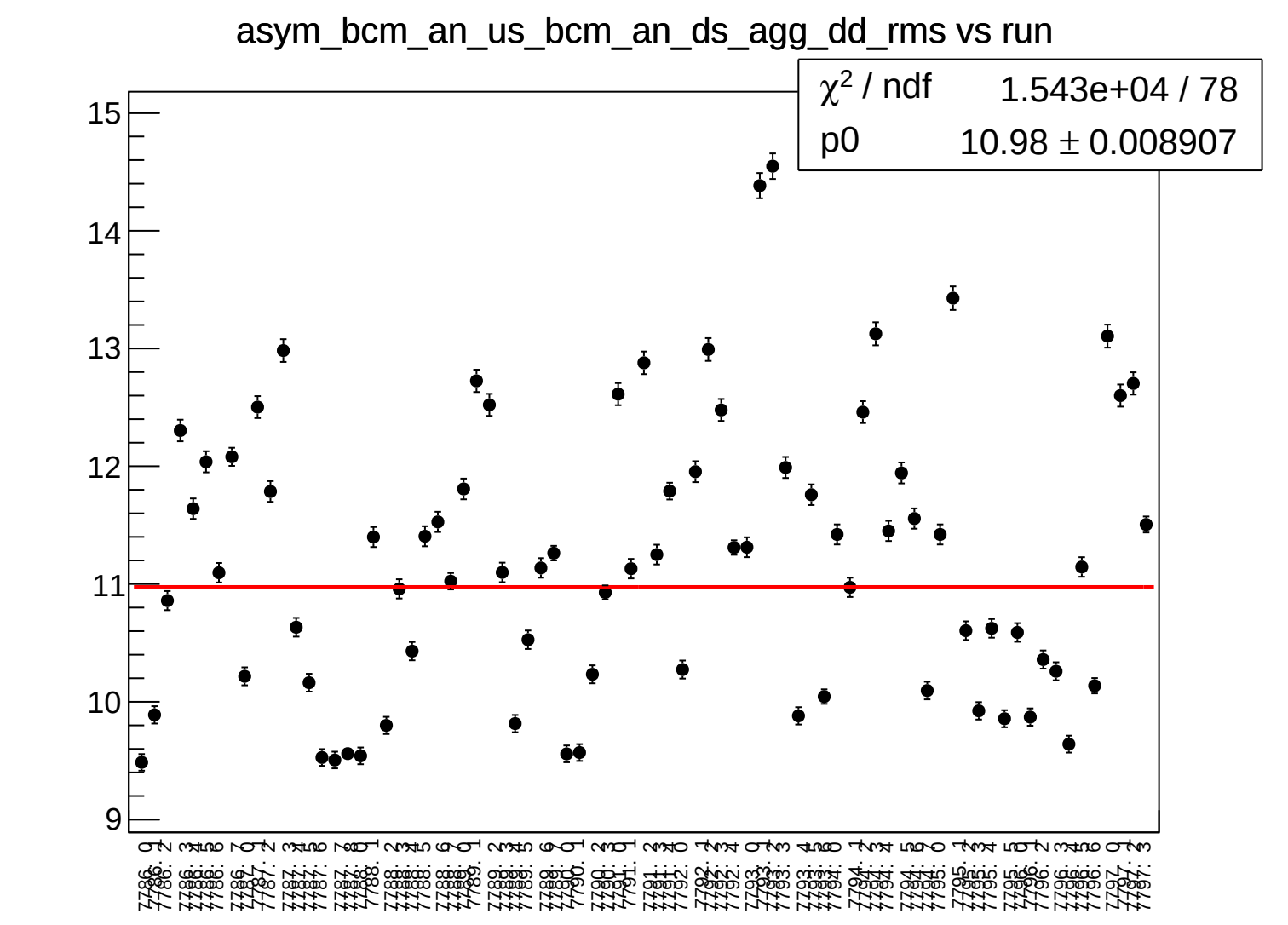

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 88.43 / 78
p0 2.455 ± 25.23
pull
Entries 79
Mean −165.7
Std Dev 0

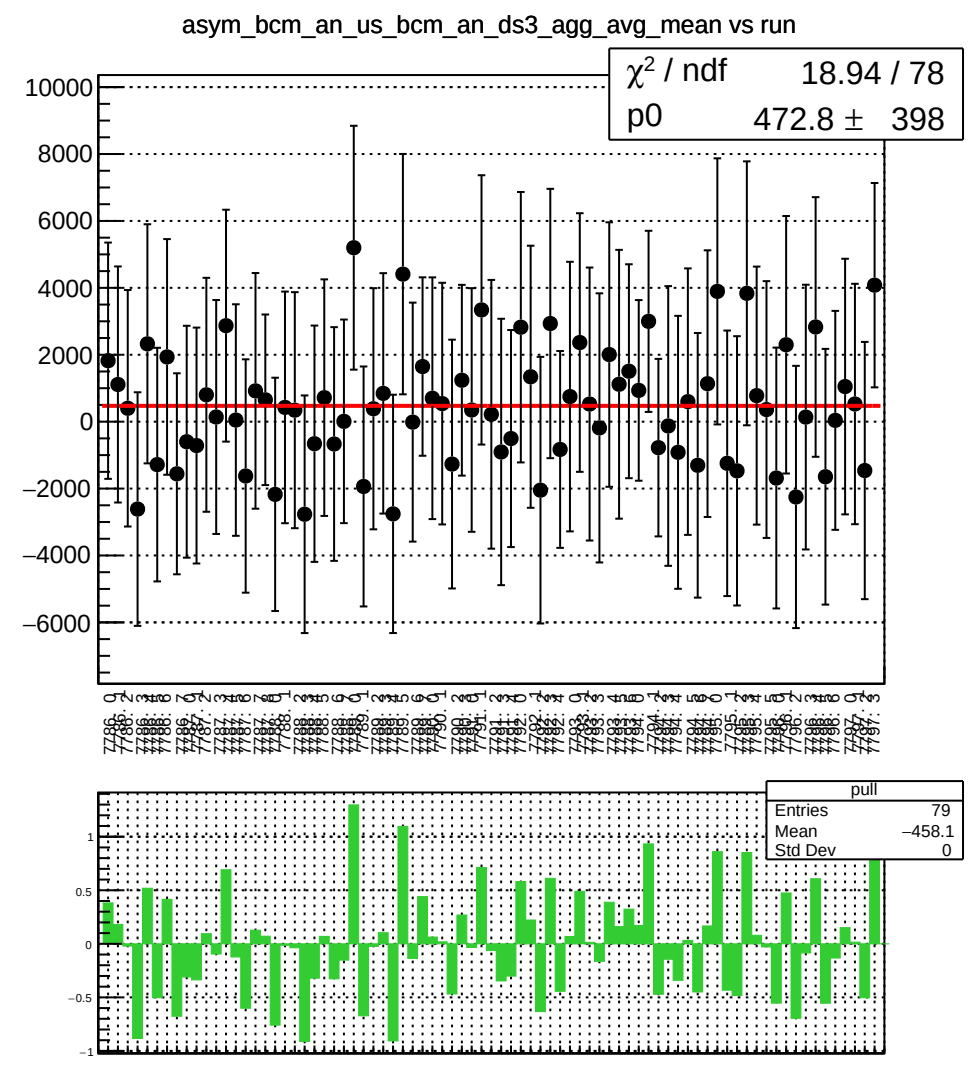

pull1D
Entries 79
Mean −0.00954
Std Dev 1.058

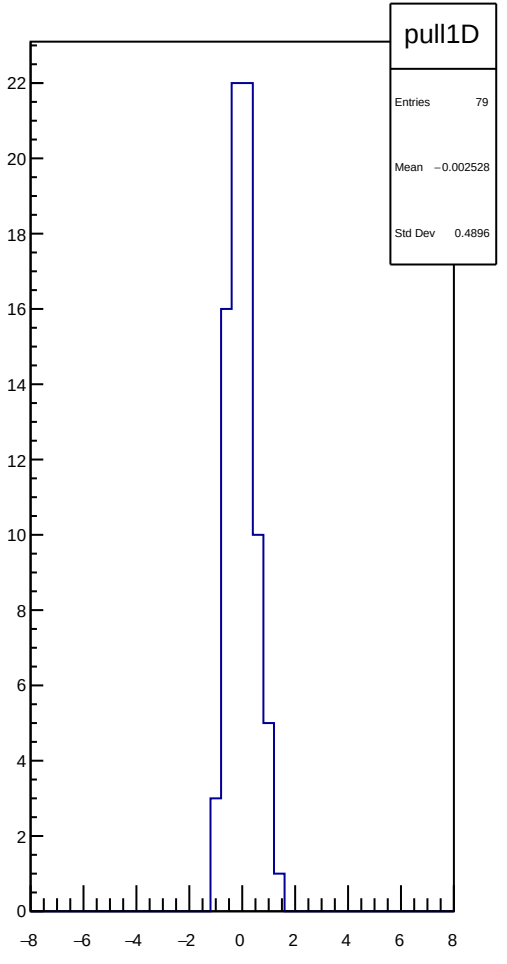

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3994 / 78
p0 22.07 ± 0.01784
26
25
24
23
22
21
20

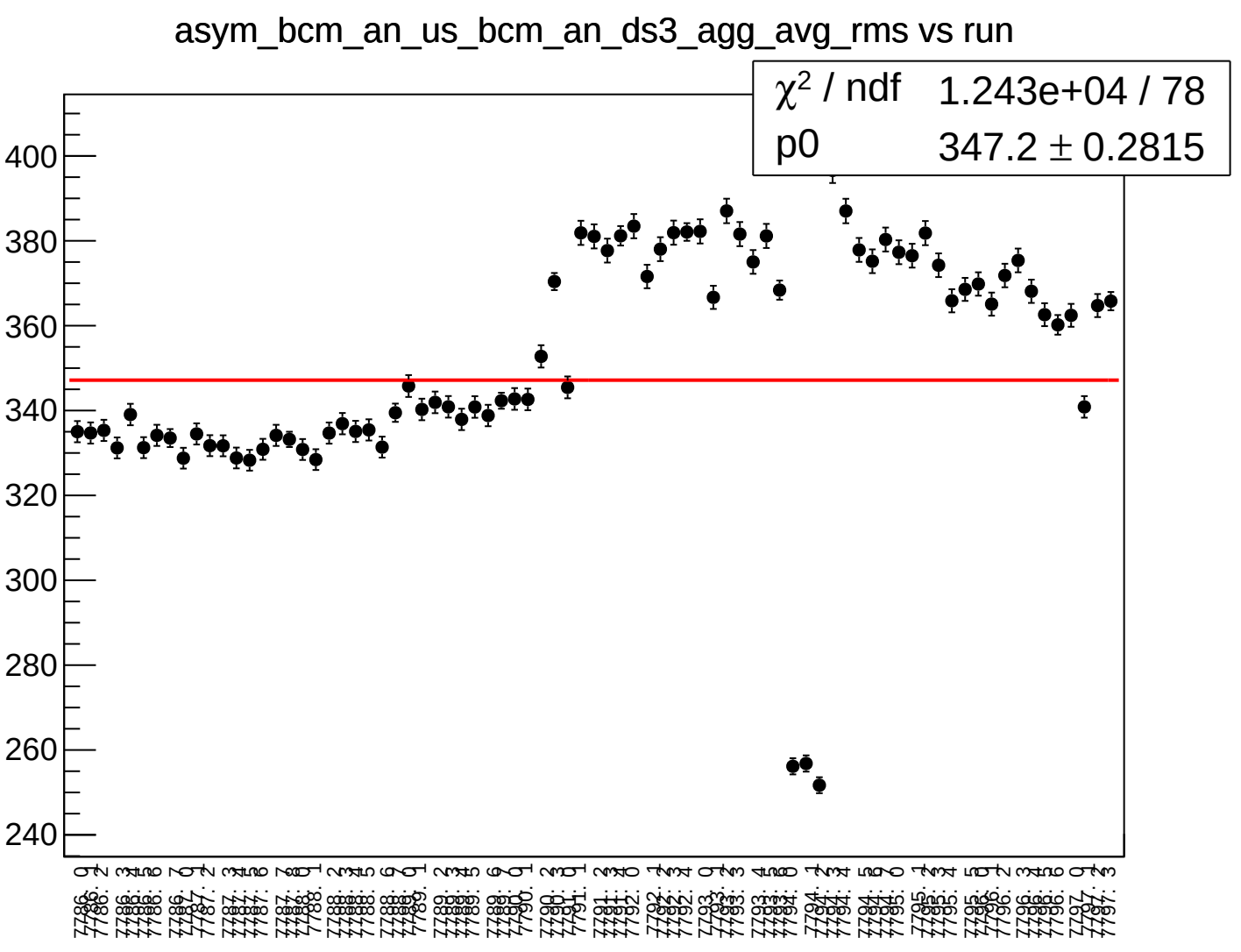

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 62.07 / 78
p0 −2.573 ± 12.6
pull
Entries 79
Mean 314.8
Std Dev 0

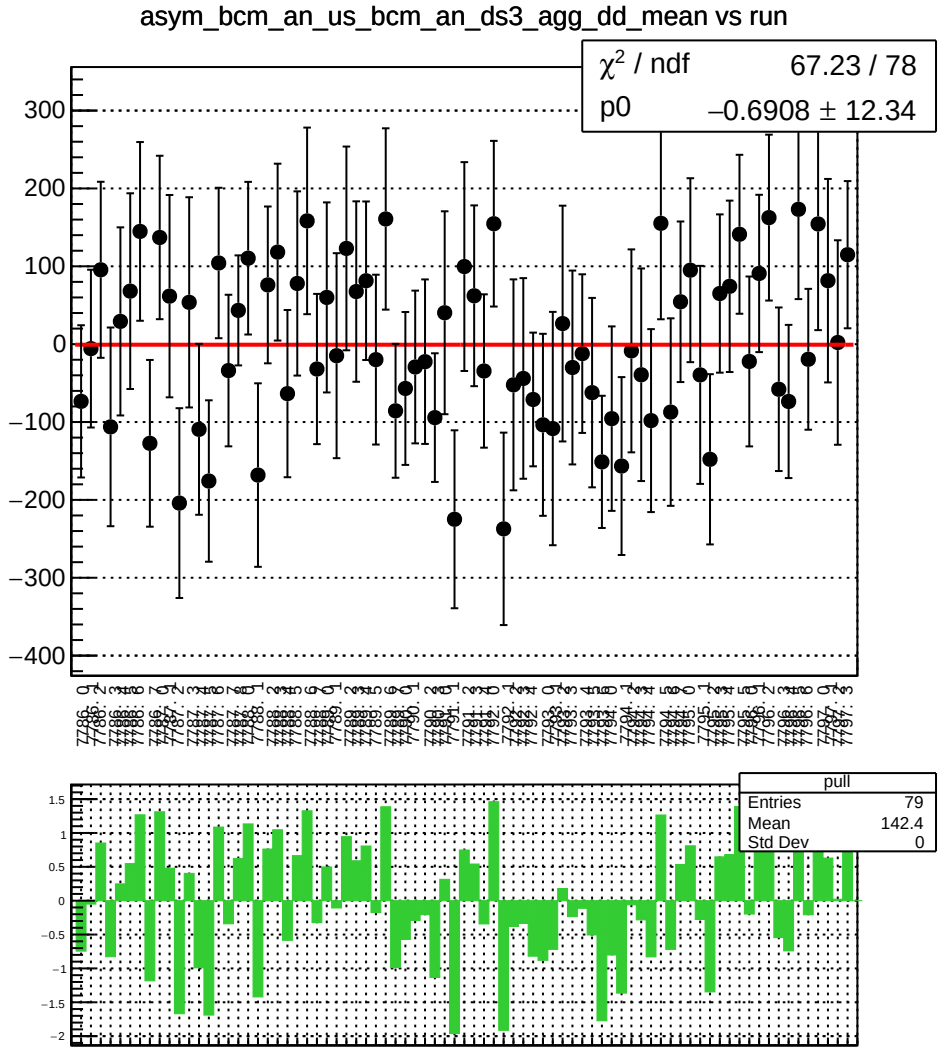

pull1D
Entries 79
Mean 0.003083
Std Dev 0.8864

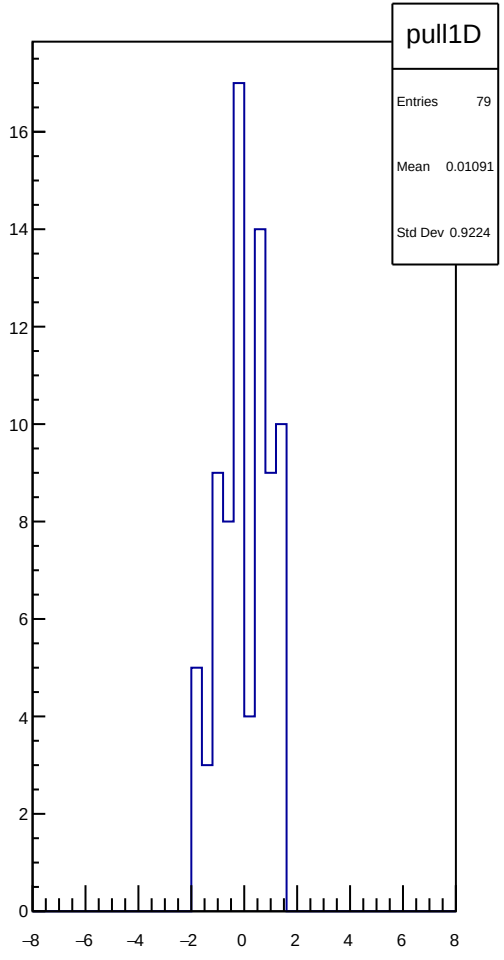

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.543e+04 / 78
p0 10.98 ± 0.008907
15
14
13
12
11
10
9

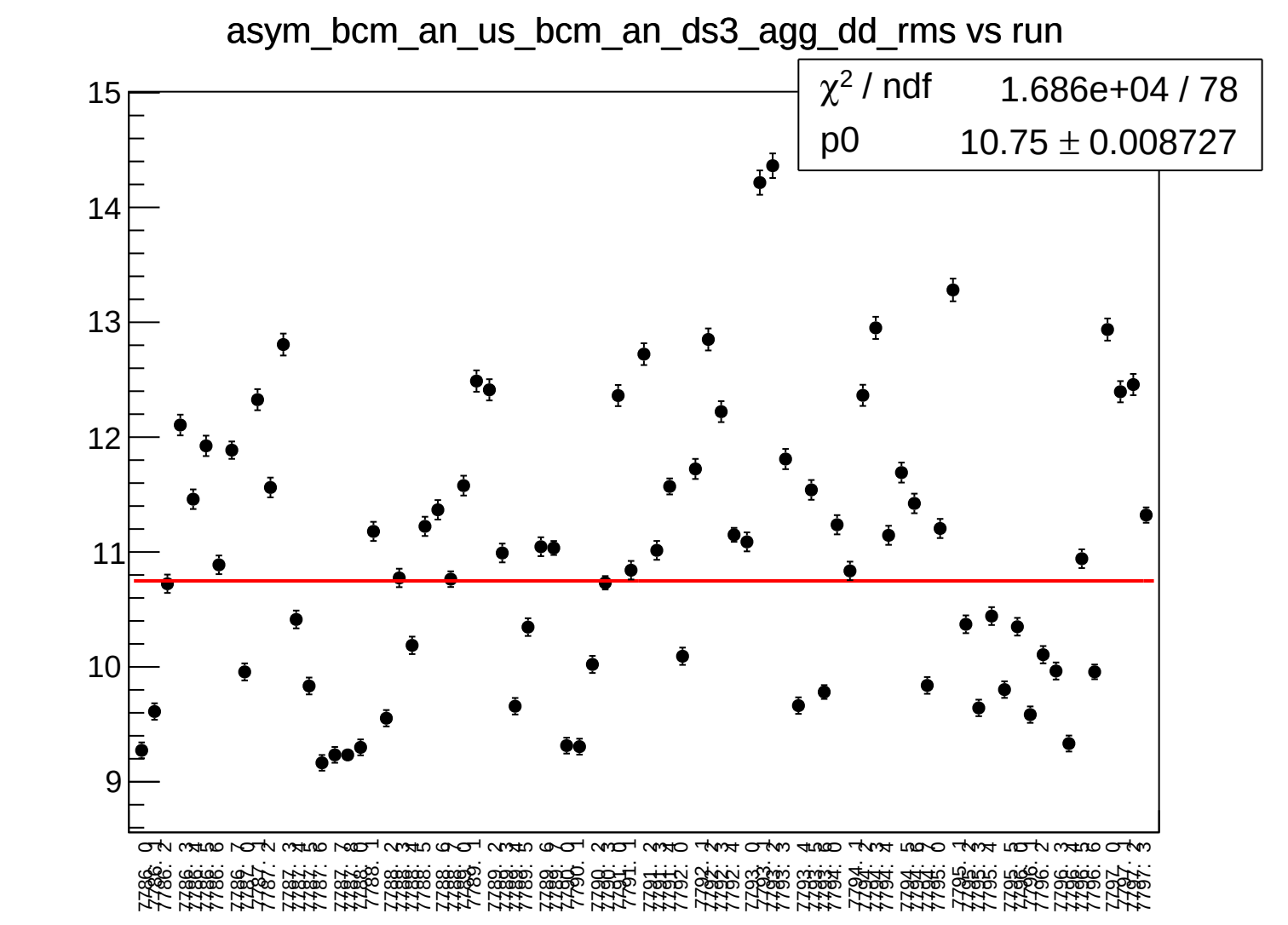

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 18.94 / 78
p0 472.8 ± 398
pull
Entries 79
Mean −458.1
Std Dev 0

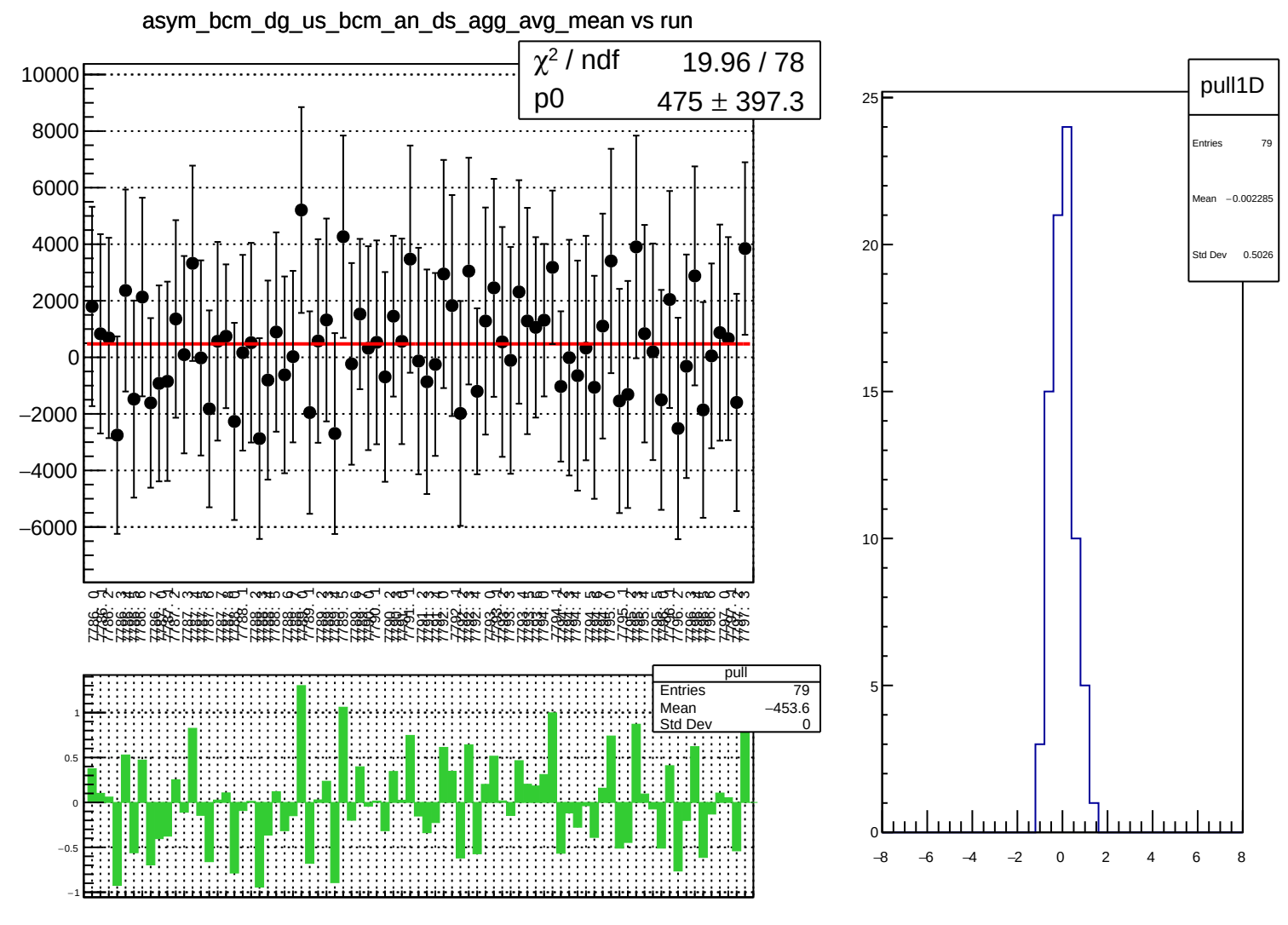

pull1D
Entries 79
Mean −0.002528
Std Dev 0.4896

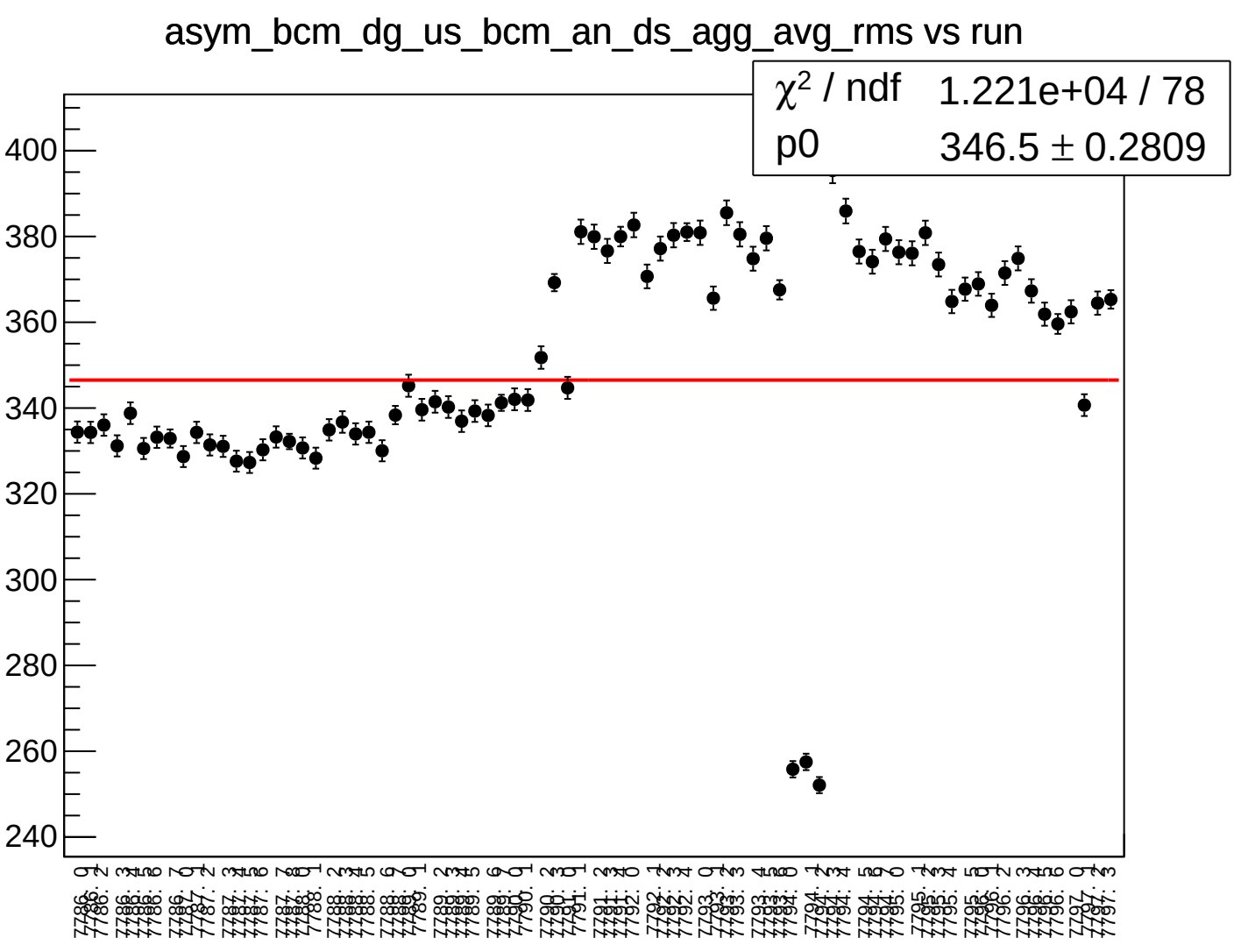

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.243e+04 / 78
p0 347.2 ± 0.2815
400
380
360
340
320
300
280
260
240

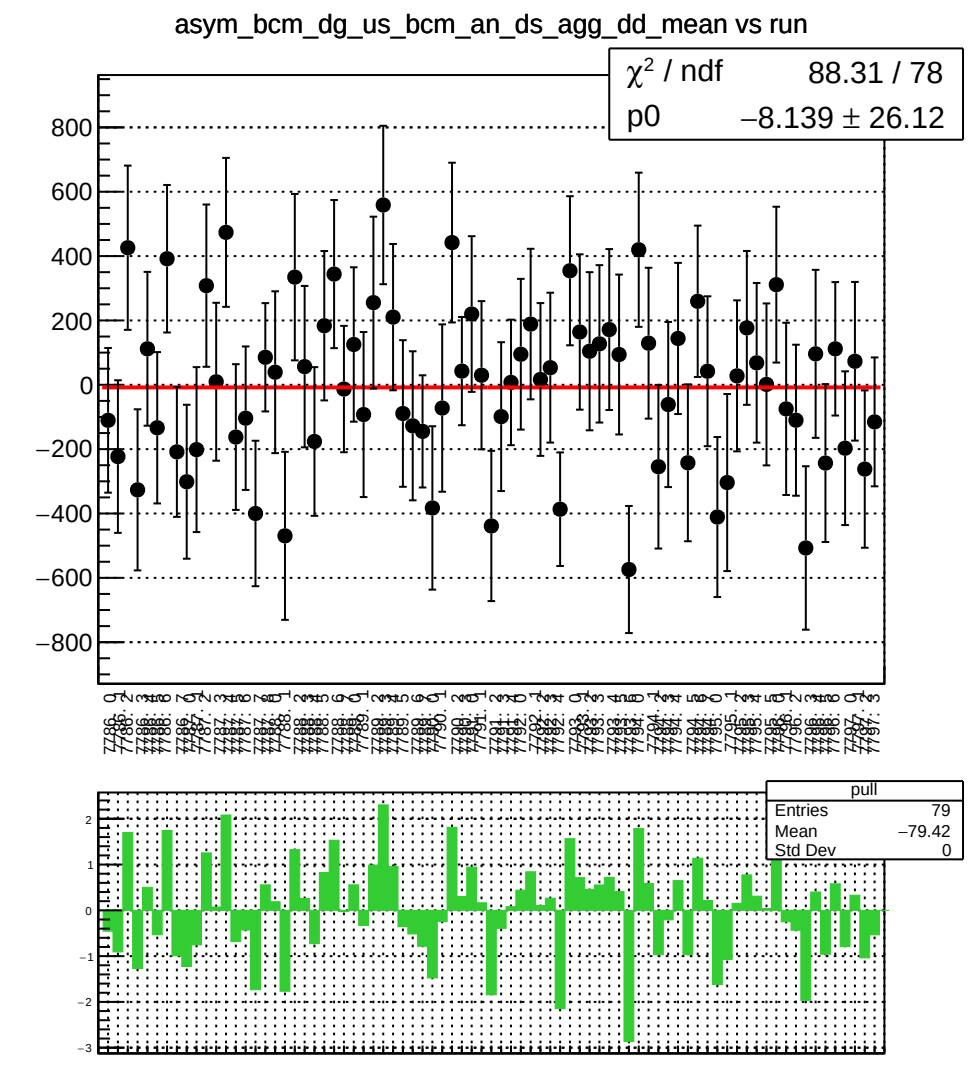

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 67.23 / 78
p0 −0.6908 ± 12.34
pull
Entries 79
Mean 142.4
Std Dev 0

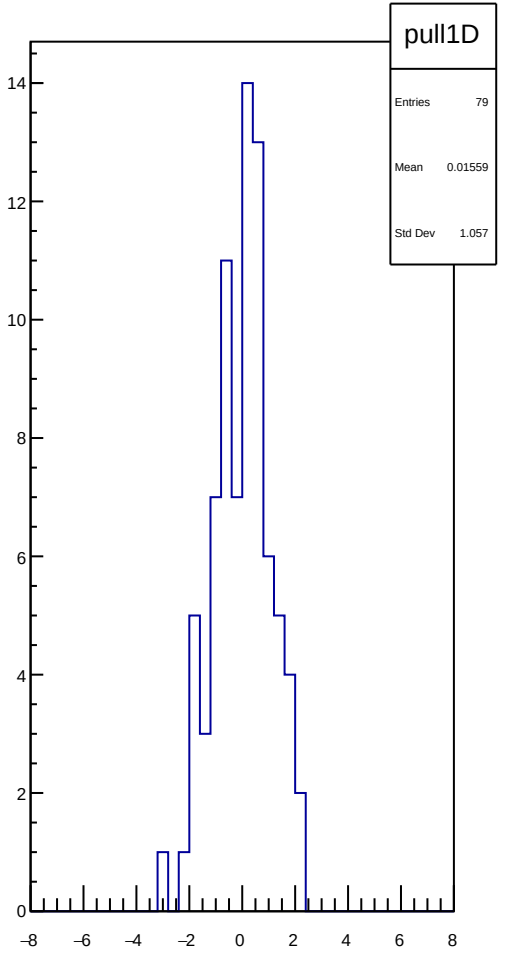

pull1D
Entries 79
Mean 0.01091
Std Dev 0.9224

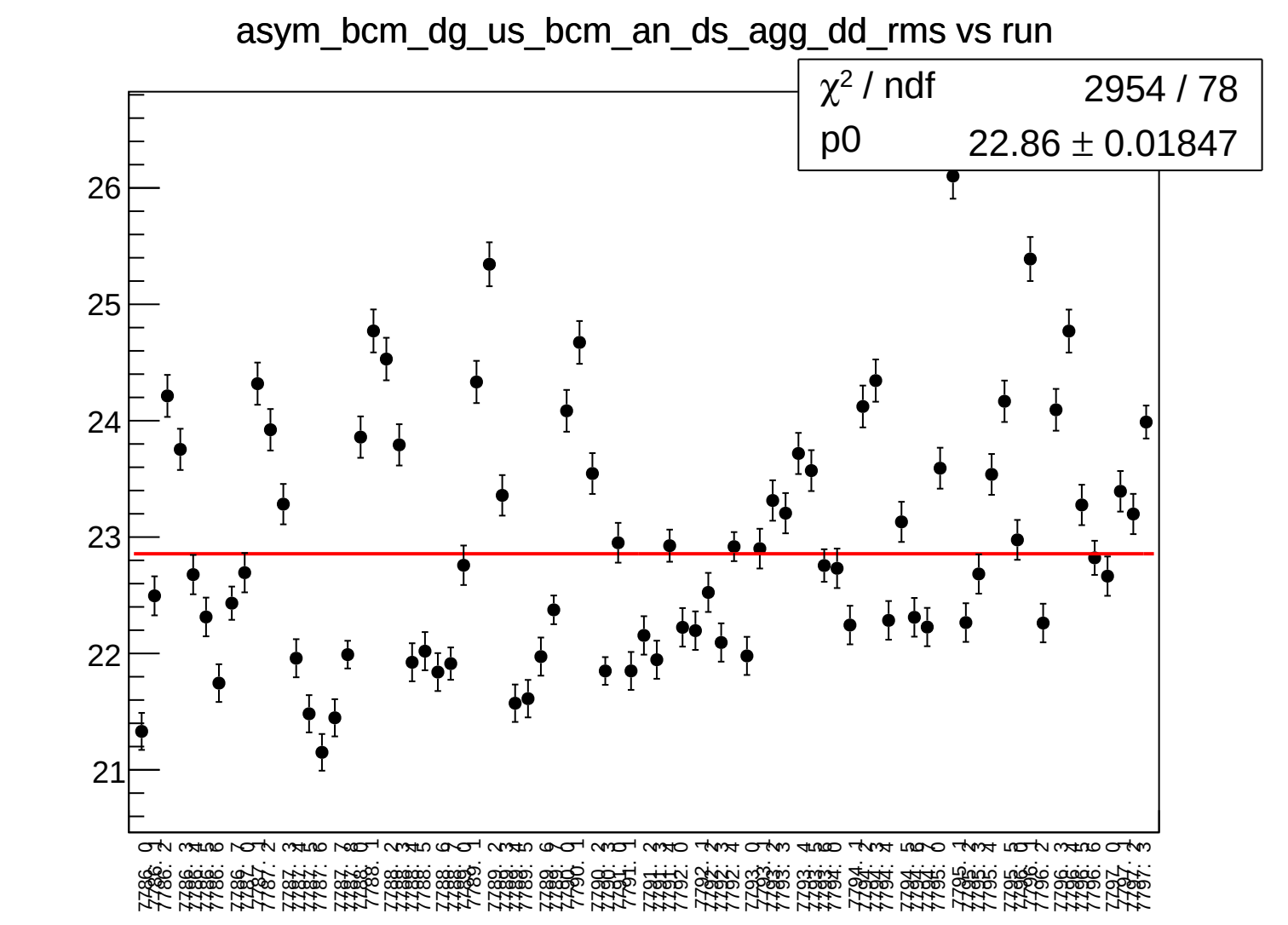

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ^2 / ndf 1.686e+04 / 78
p0 10.75 ± 0.008727
15
14
13
12
11
10
9

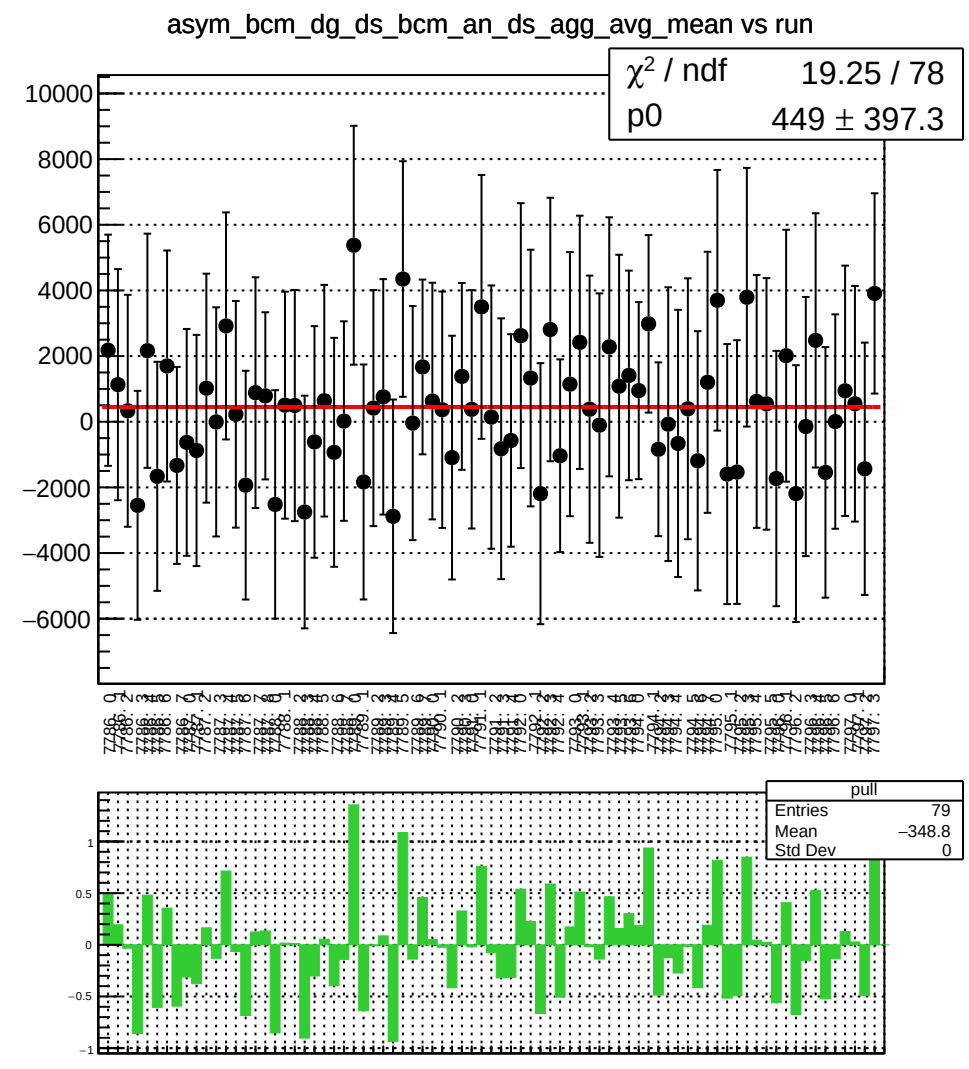

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.96 / 78
p0 475 ± 397.3
pull
Entries 79
Mean −453.6
Std Dev 0
pull1D
Entries 79
Mean −0.002285
Std Dev 0.5026

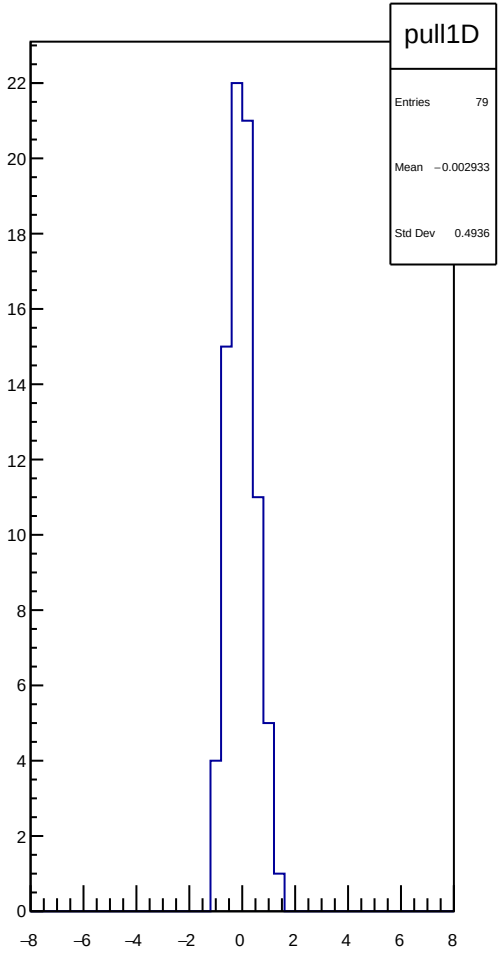

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.221e+04 / 78
p0 346.5 ± 0.2809
400
380
360
340
320
300
280
260
240

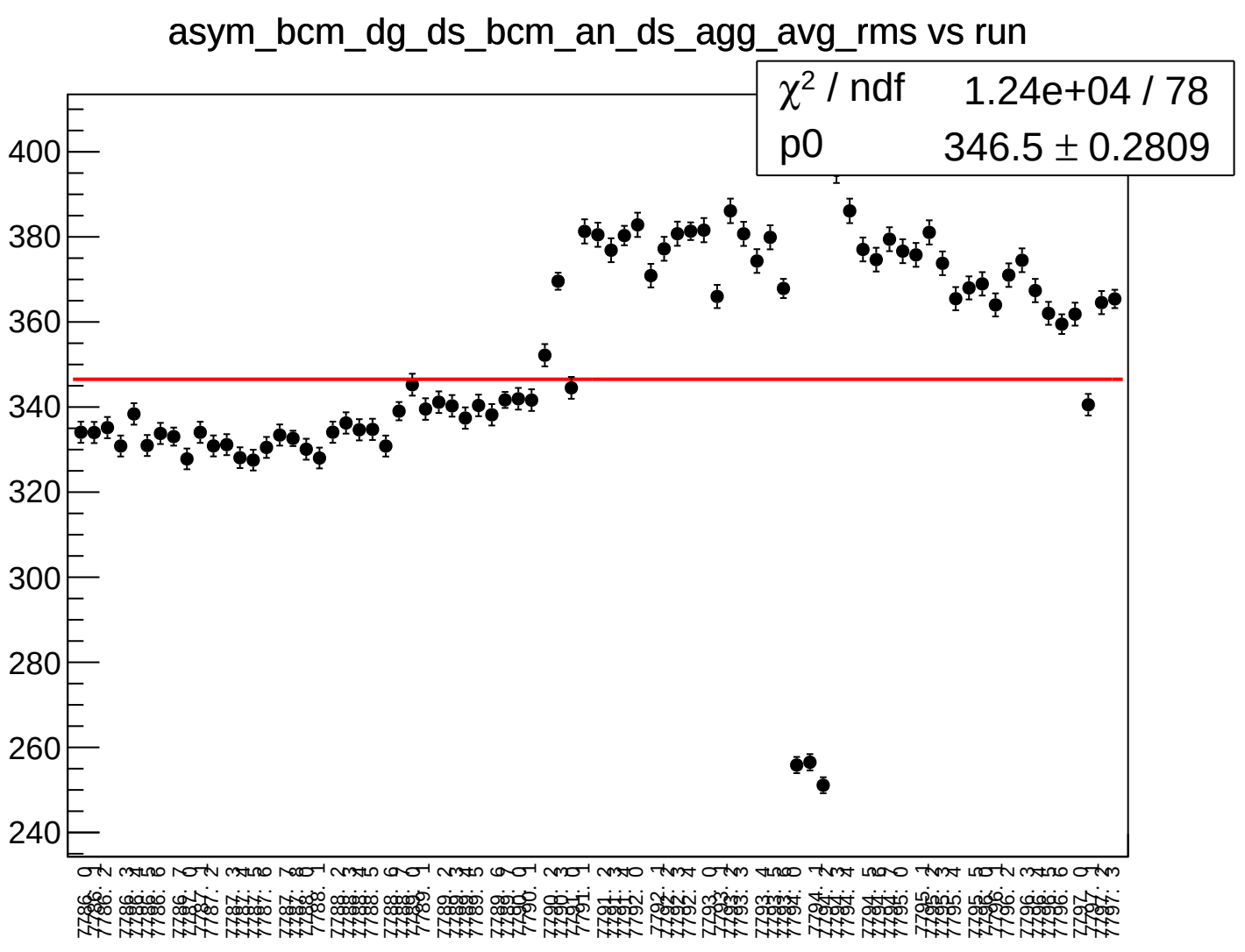

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 88.31 / 78
p0 −8.139 ± 26.12
pull
Entries 79
Mean −79.42
Std Dev 0

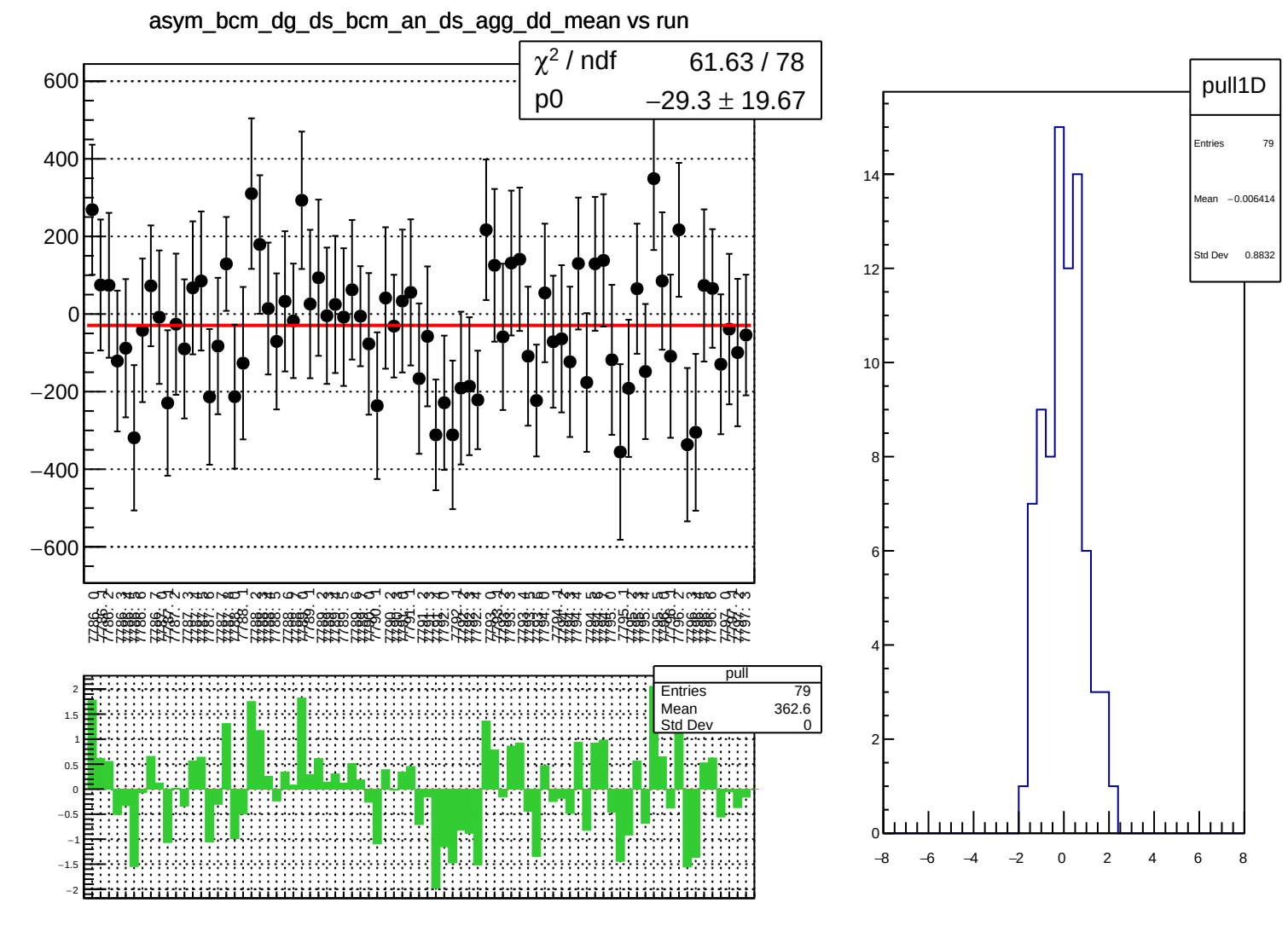

pull1D
Entries 79
Mean 0.01559
Std Dev 1.057

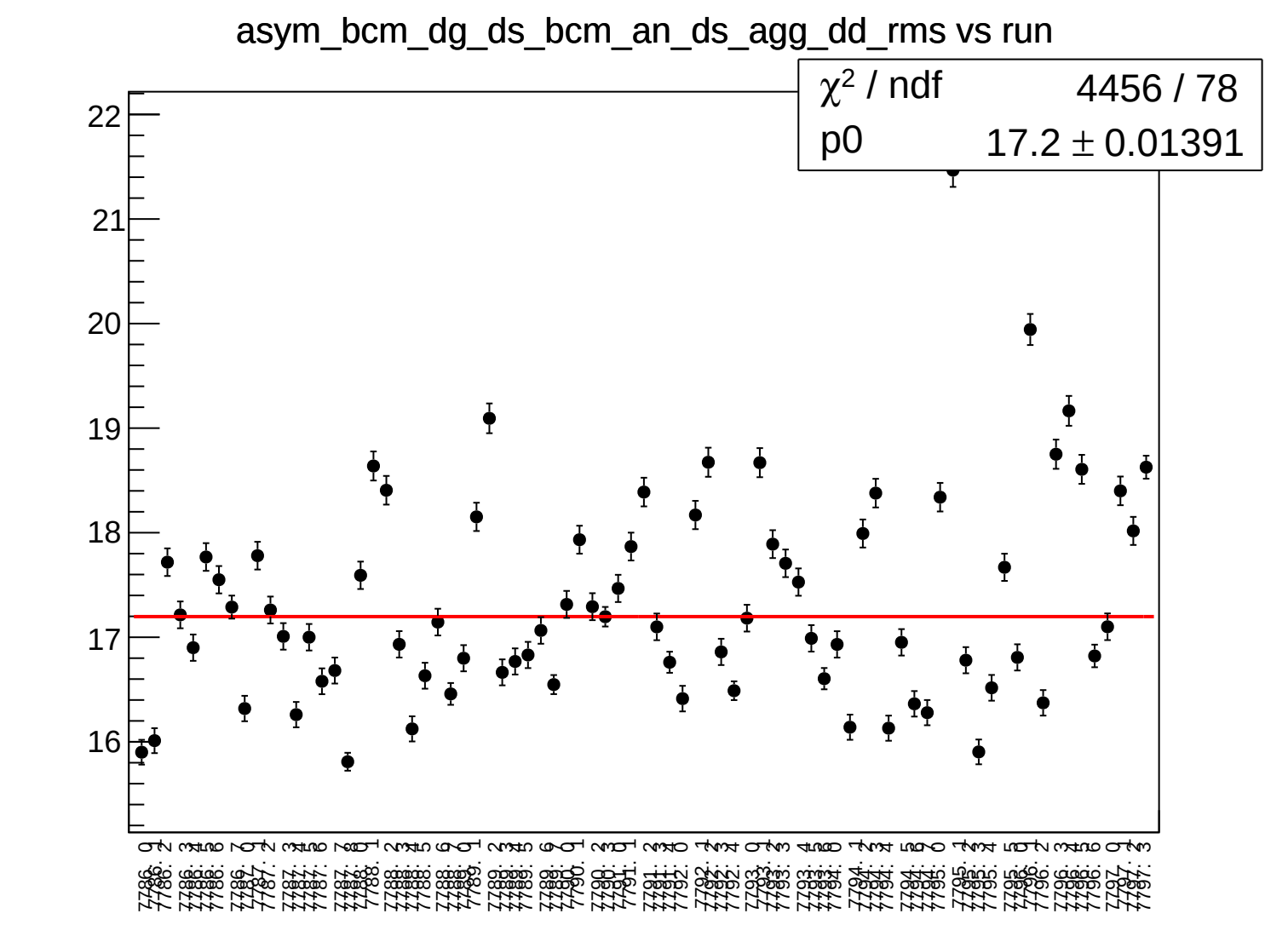

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2954 / 78
p0 22.86 ± 0.01847
26
25
24
23
22
21

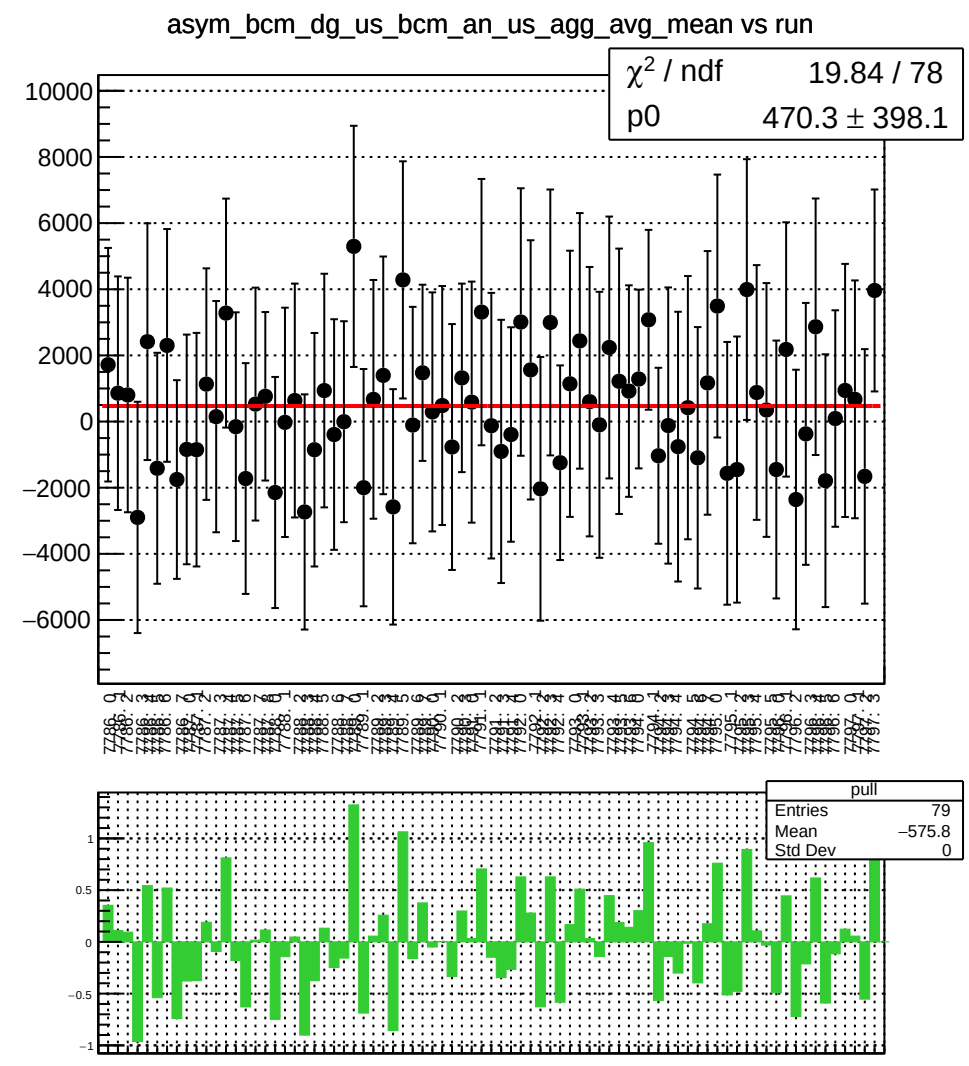

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.25 / 78
p0 449 ± 397.3
pull
Entries 79
Mean −348.8
Std Dev 0

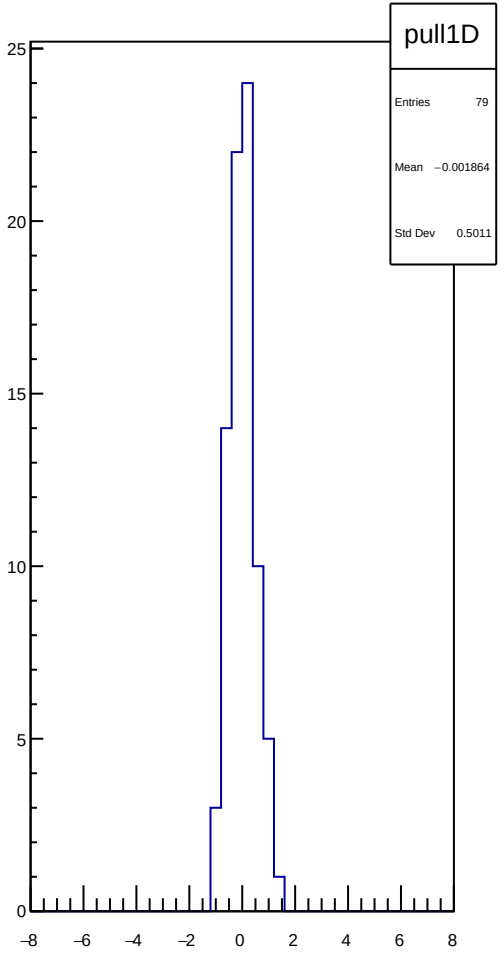

pull1D
Entries 79
Mean −0.002933
Std Dev 0.4936

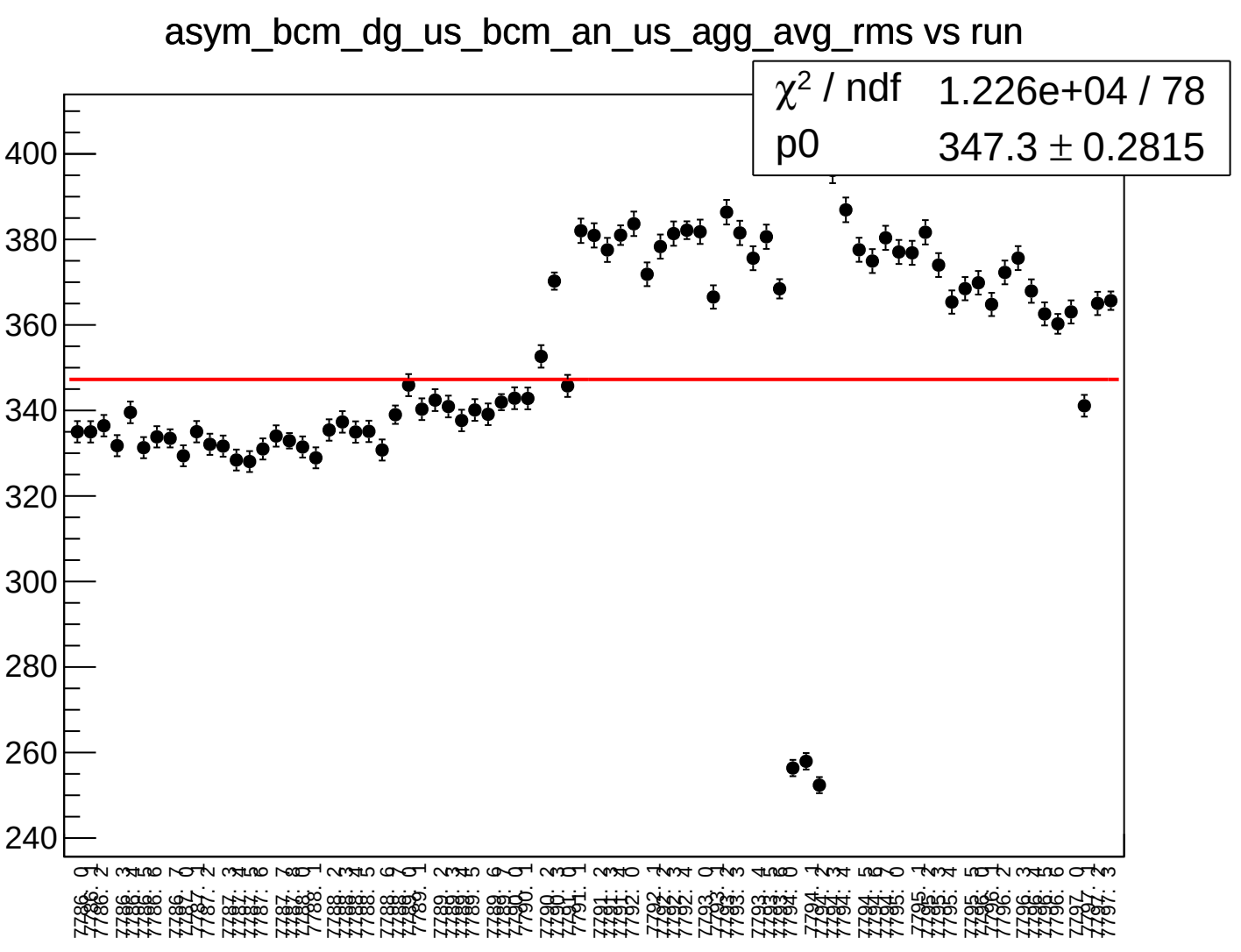

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.24e+04 / 78
p0 346.5 ± 0.2809
400
380
360
340
320
300
280
260
240

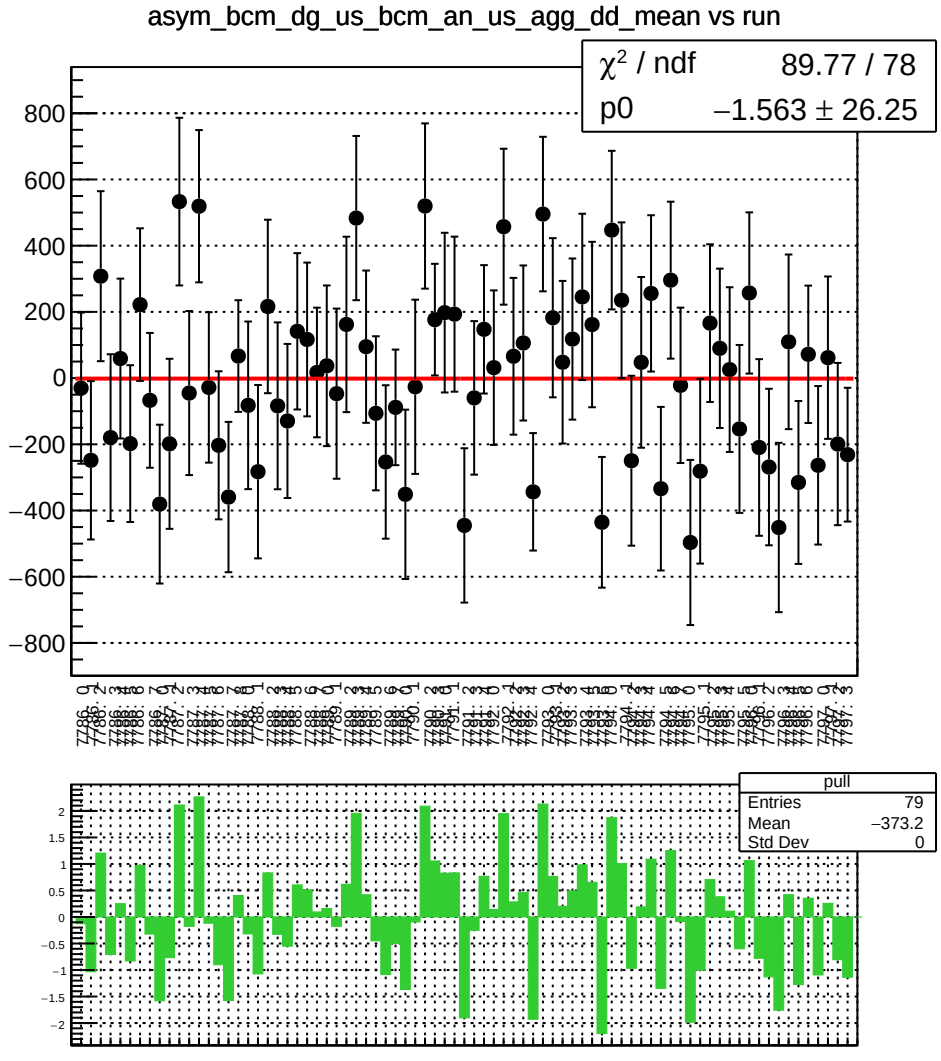

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 61.63 / 78
p0 −29.3 ± 19.67
pull
Entries 79
Mean 362.6
Std Dev 0
pull1D
Entries 79
Mean −0.006414
Std Dev 0.8832

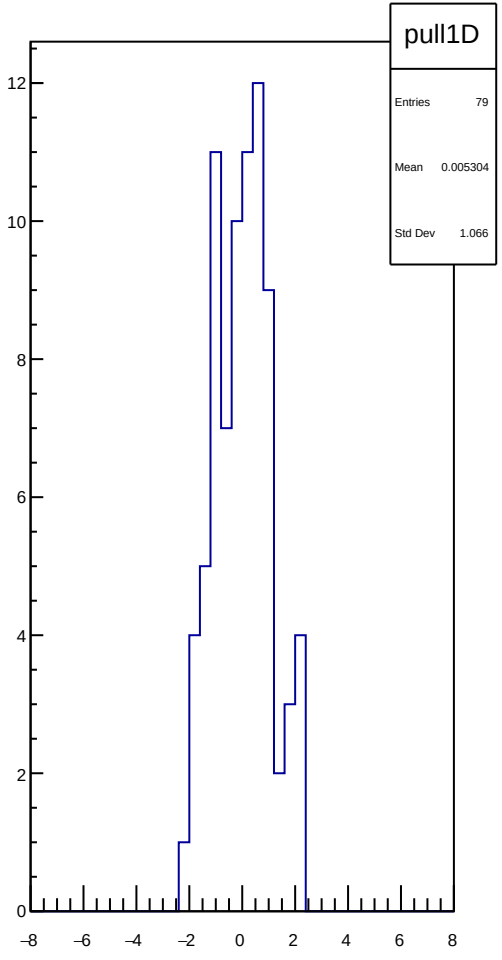

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4456 / 78
p0 17.2 ± 0.01391
22
21
20
19
18
17
16

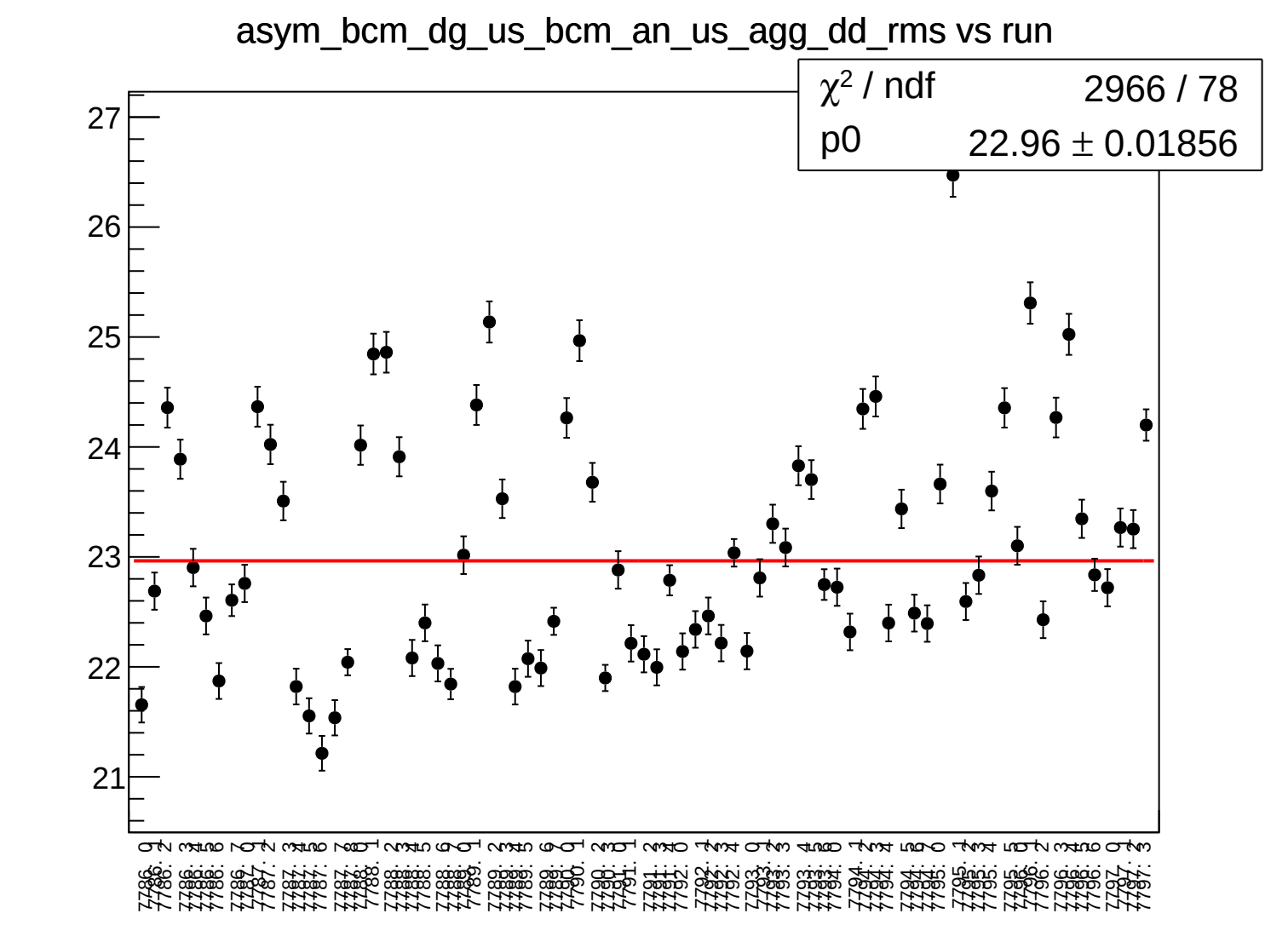

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.84 / 78
p0 470.3 ± 398.1
pull
Entries 79
Mean −575.8
Std Dev 0

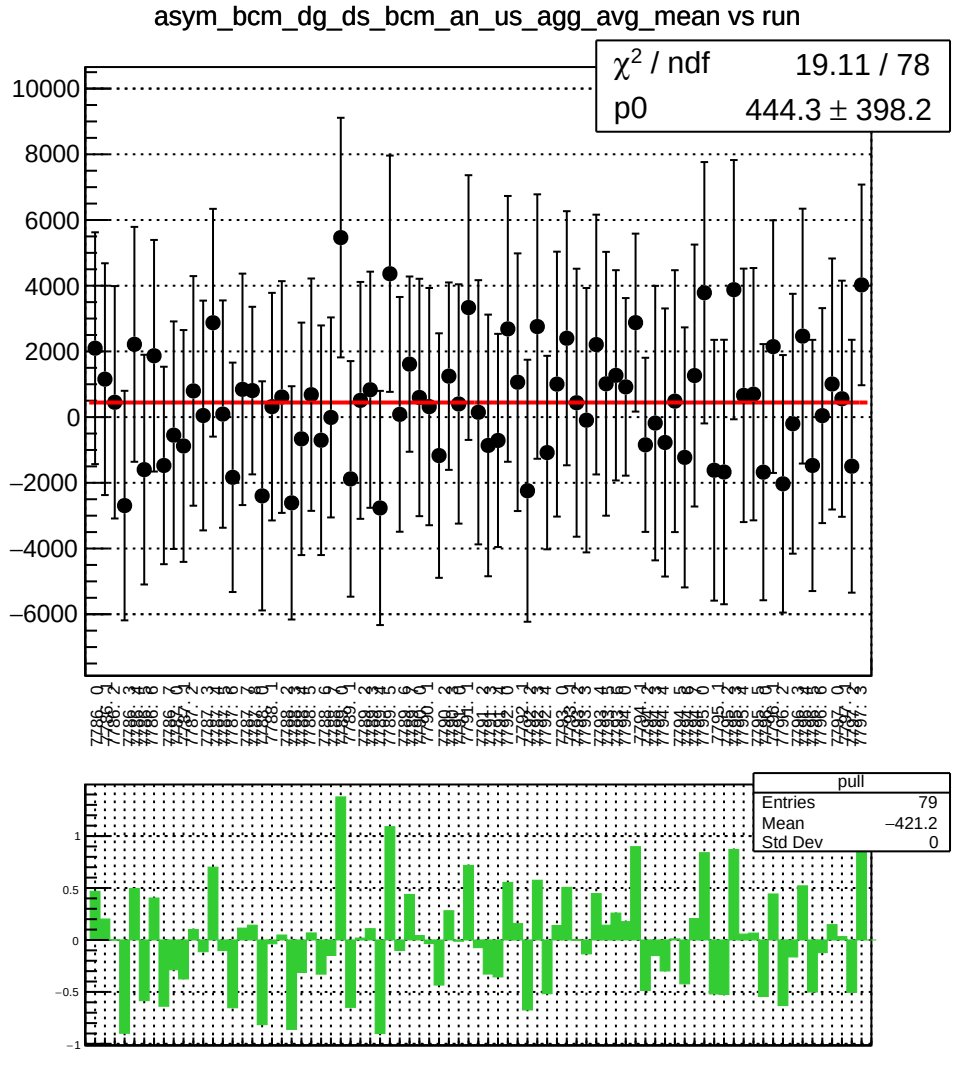

pull1D
Entries 79
Mean −0.001864
Std Dev 0.5011

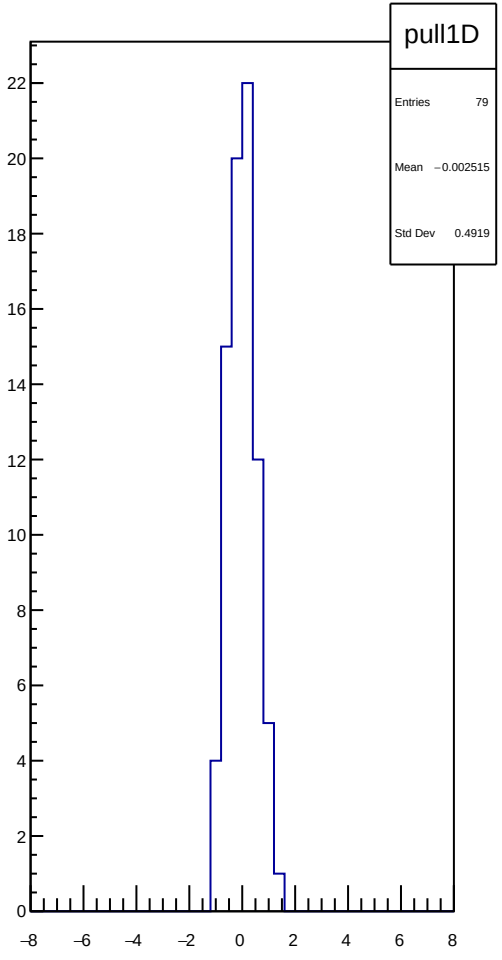

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.226e+04 / 78
p0 347.3 ± 0.2815
400
380
360
340
320
300
280
260
240

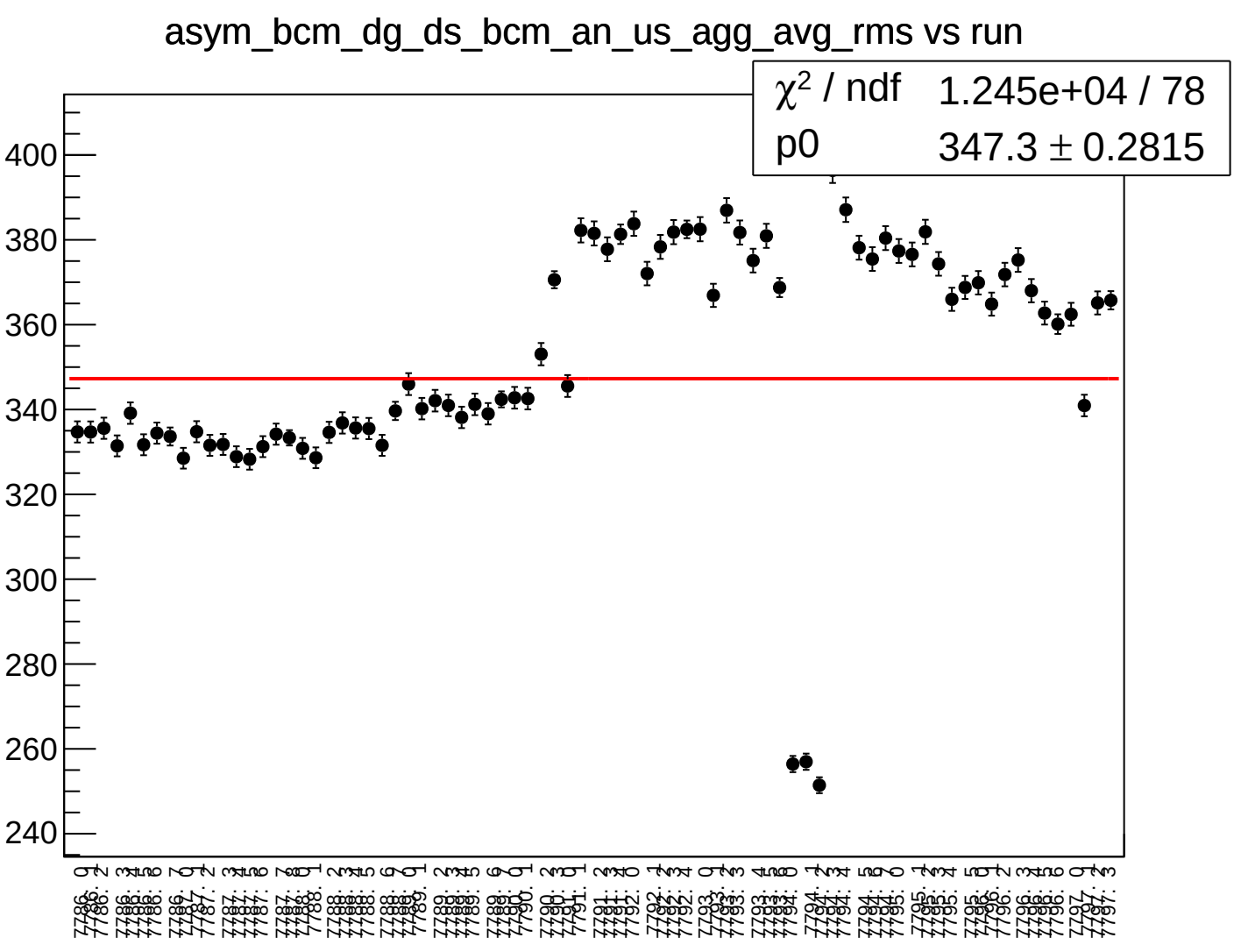

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 89.77 / 78
p0 −1.563 ± 26.25
pull
Entries 79
Mean −373.2
Std Dev 0

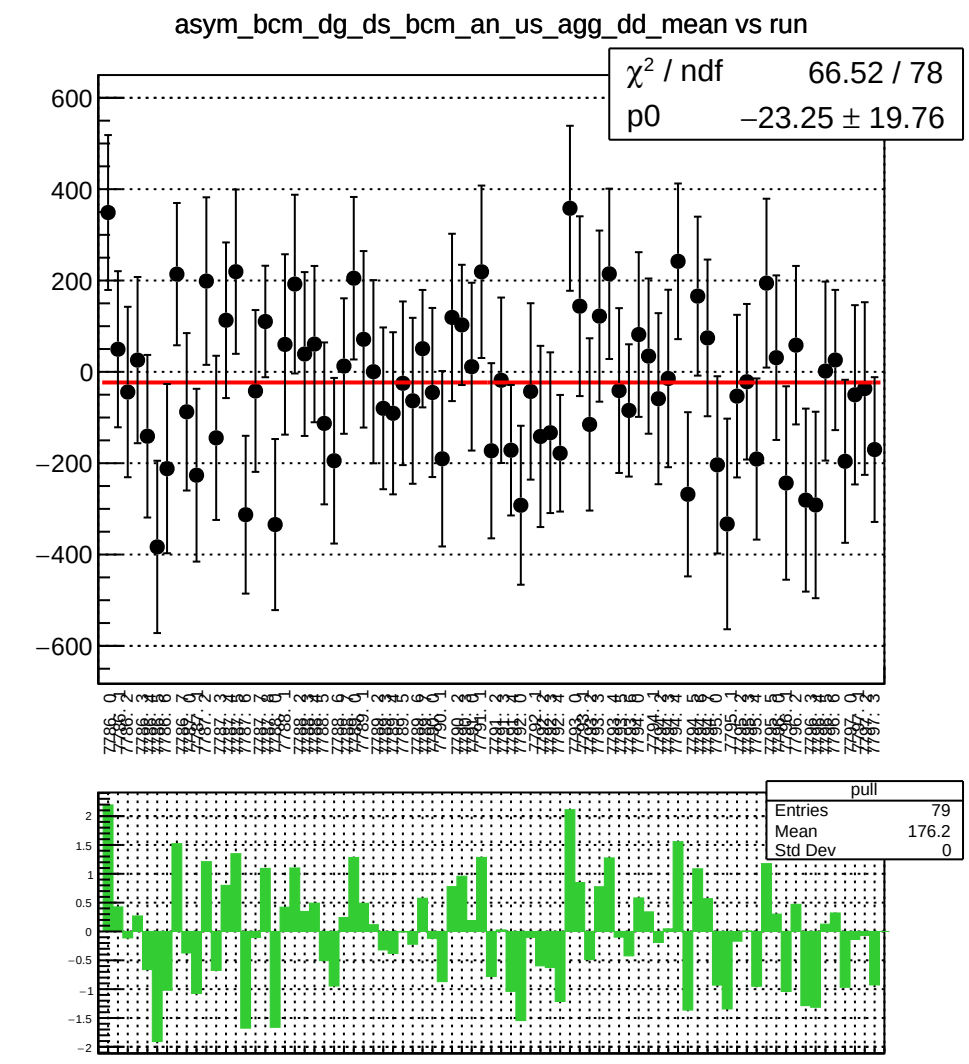

pull1D
Entries 79
Mean 0.005304
Std Dev 1.066

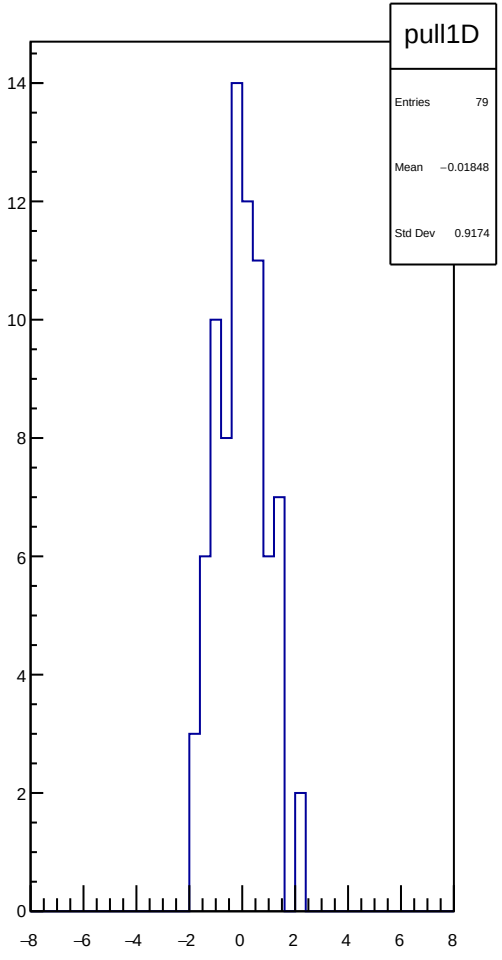

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2966 / 78
p0 22.96 ± 0.01856
27
26
25
24
23
22
21

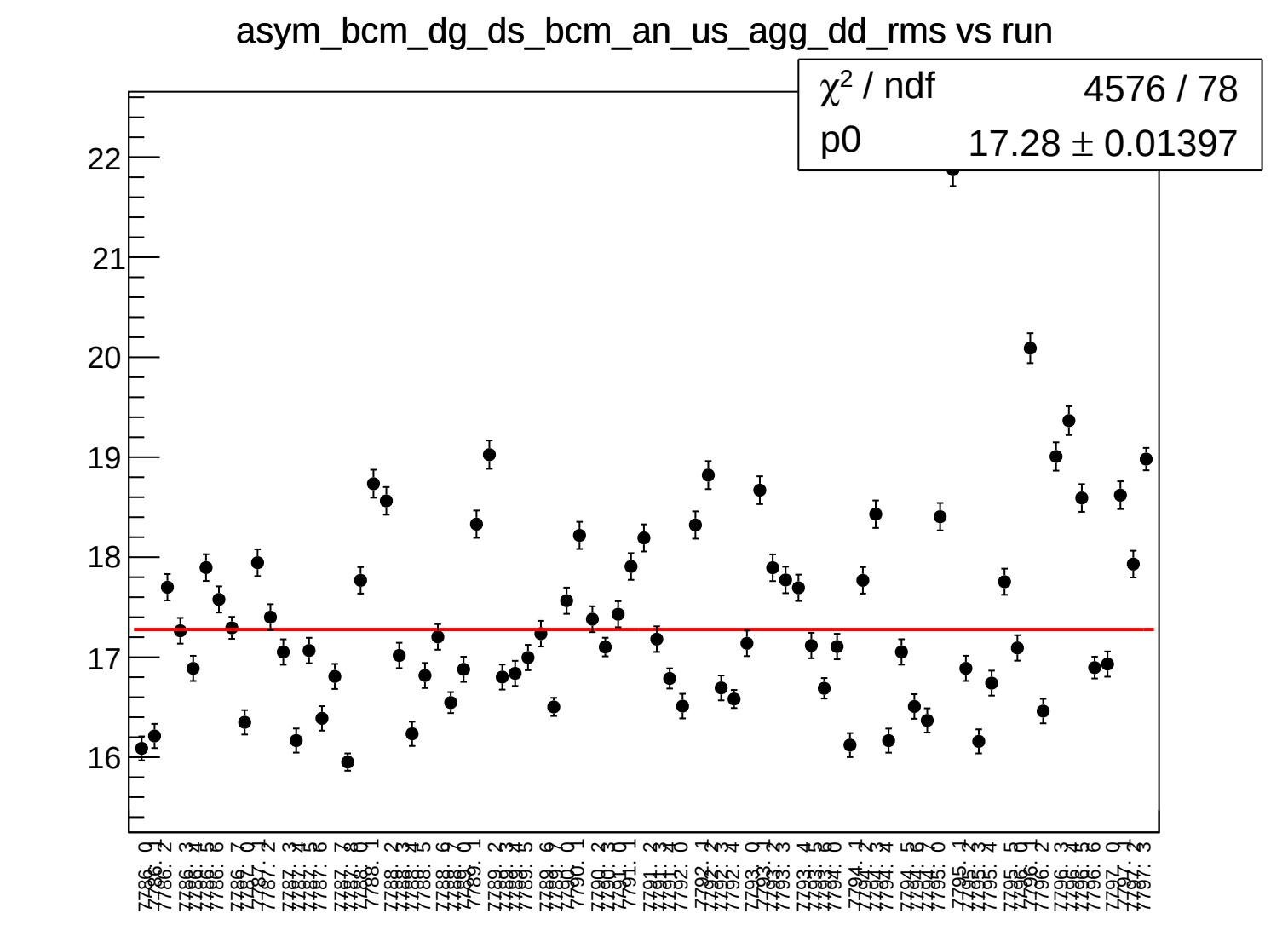

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.11 / 78
p0 444.3 ± 398.2
pull
Entries 79
Mean −421.2
Std Dev 0

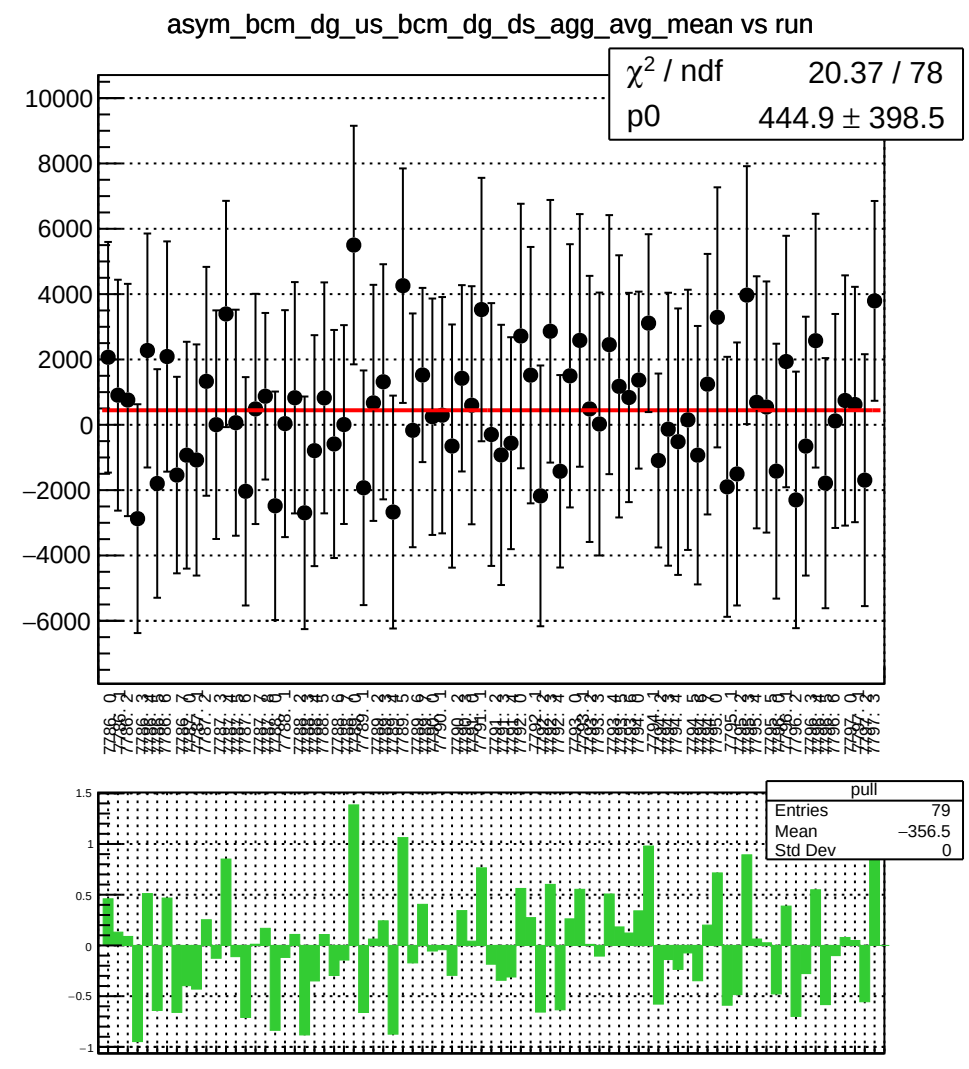

pull1D
Entries 79
Mean −0.002515
Std Dev 0.4919

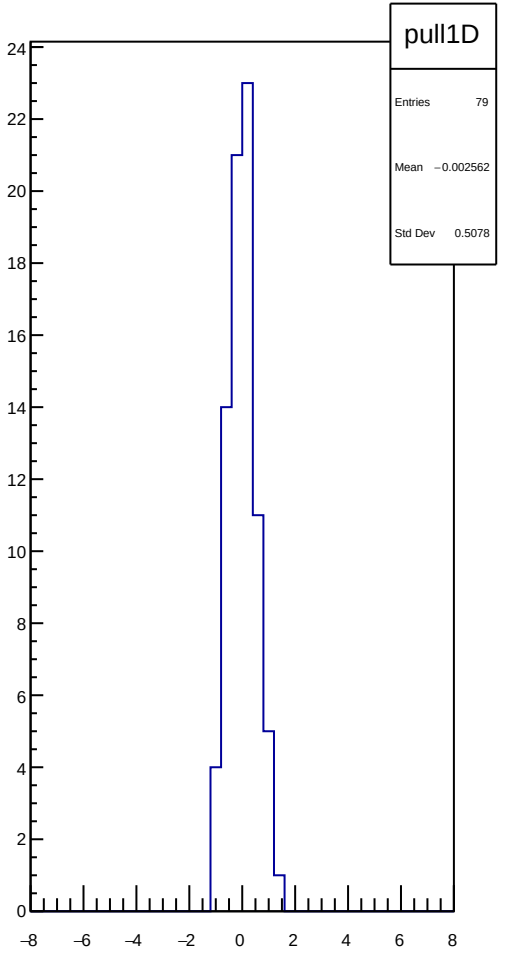

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.245e+04 / 78
p0 347.3 ± 0.2815
400
380
360
340
320
300
280
260
240

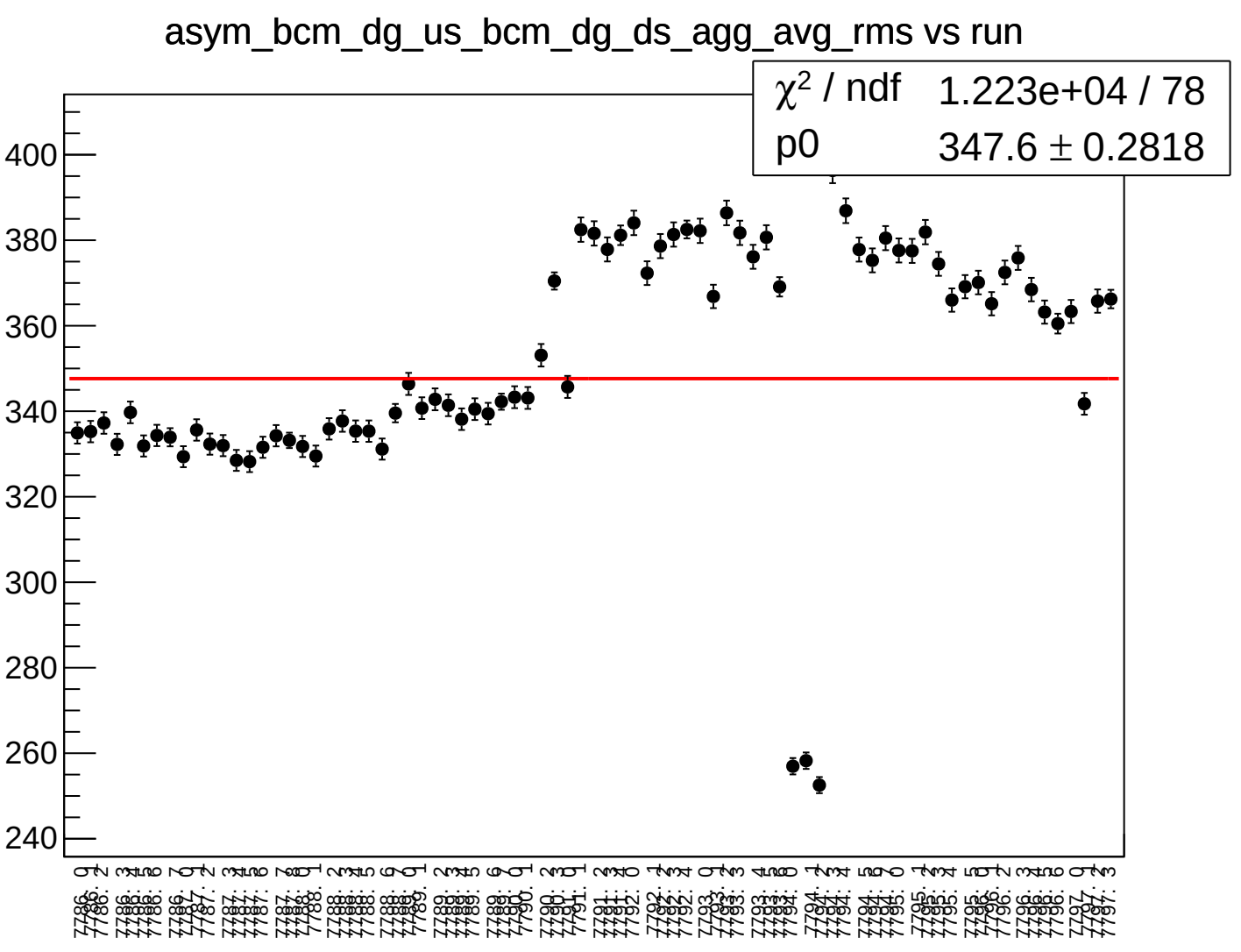

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 66.52 / 78
p0 −23.25 ± 19.76
pull
Entries 79
Mean 176.2
Std Dev 0

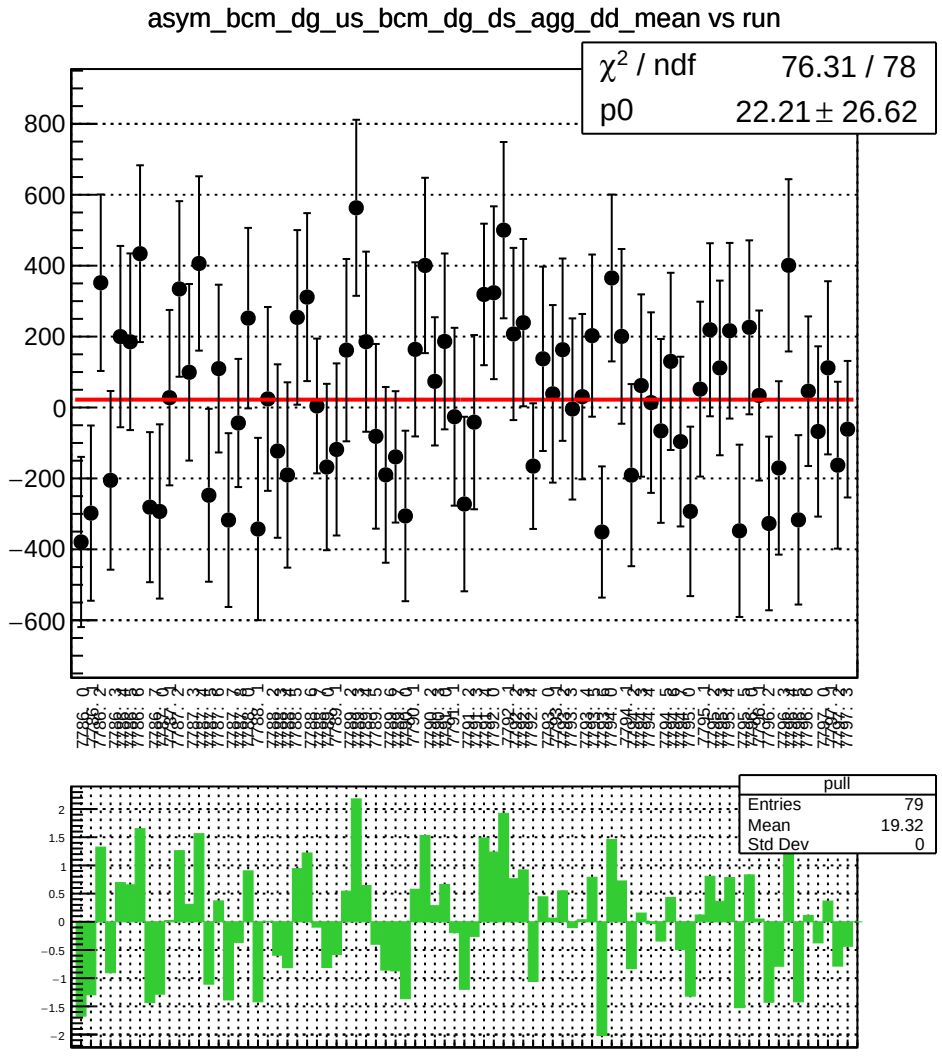

pull1D
Entries 79
Mean −0.01848
Std Dev 0.9174

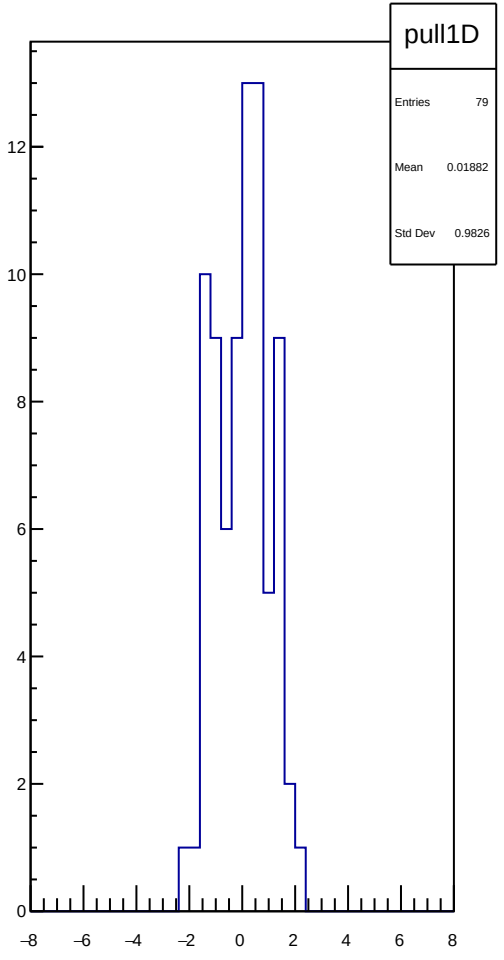

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4576 / 78
p0 17.28 ± 0.01397
22
21
20
19
18
17
16

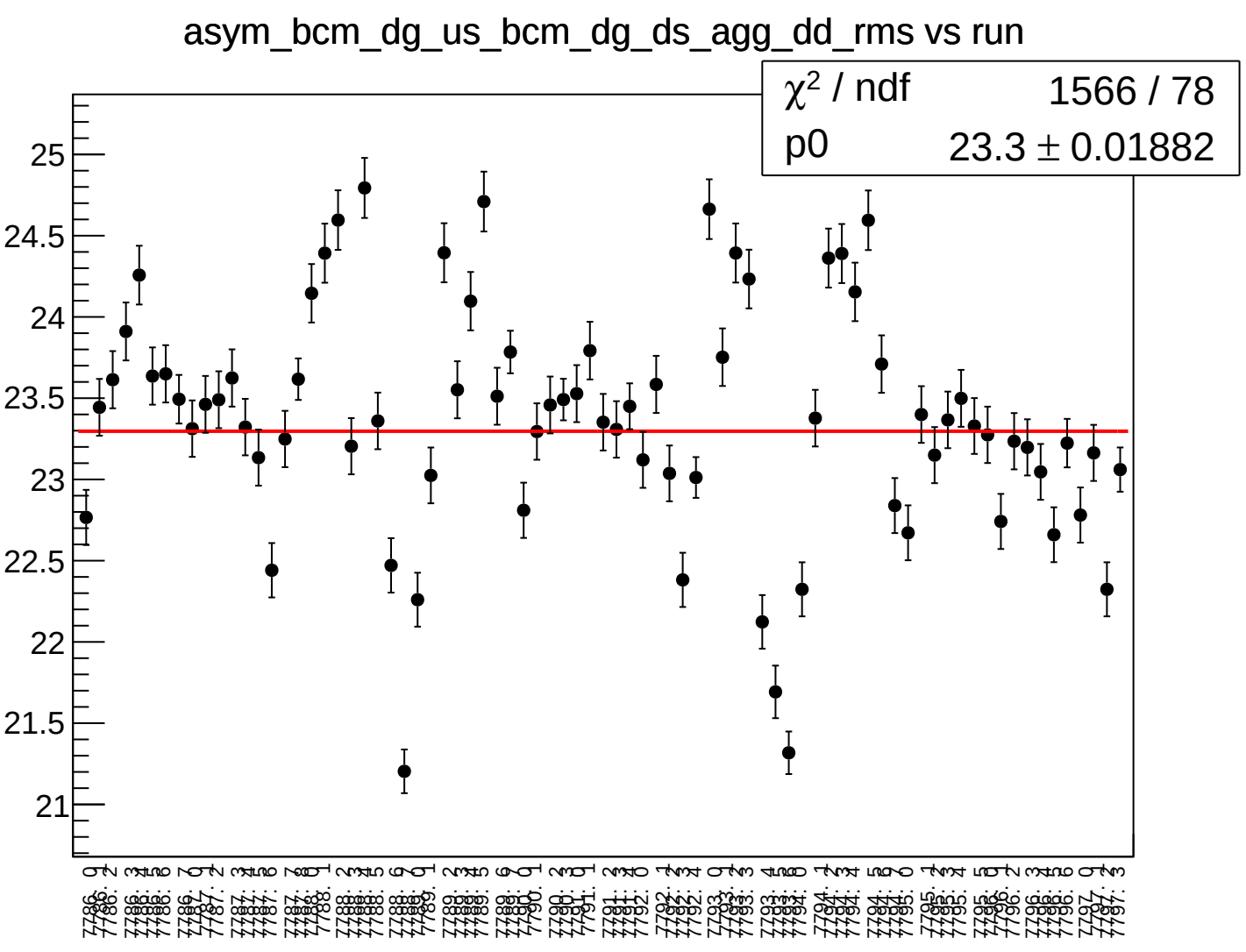

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 20.37 / 78
p0 444.9 ± 398.5
pull
Entries 79
Mean −356.5
Std Dev 0

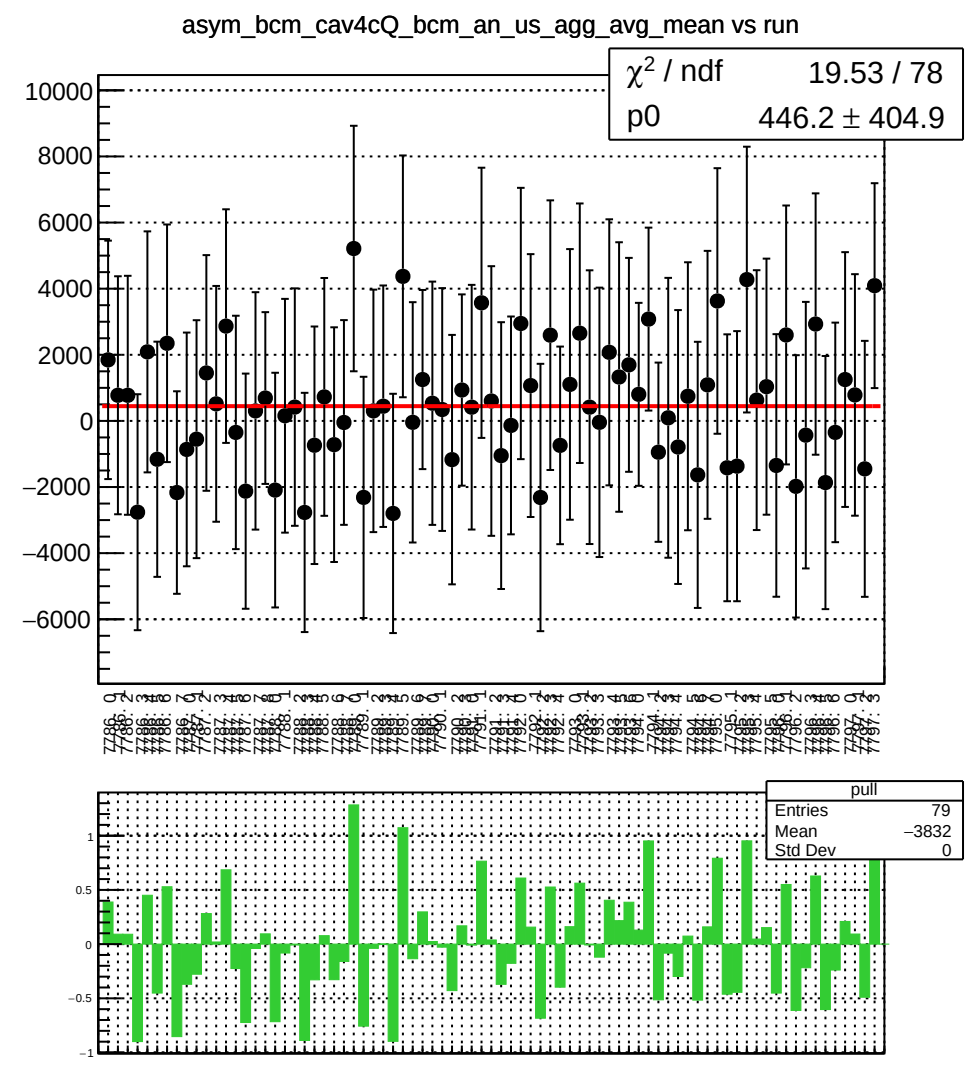

pull1D
Entries 79
Mean −0.002562
Std Dev 0.5078

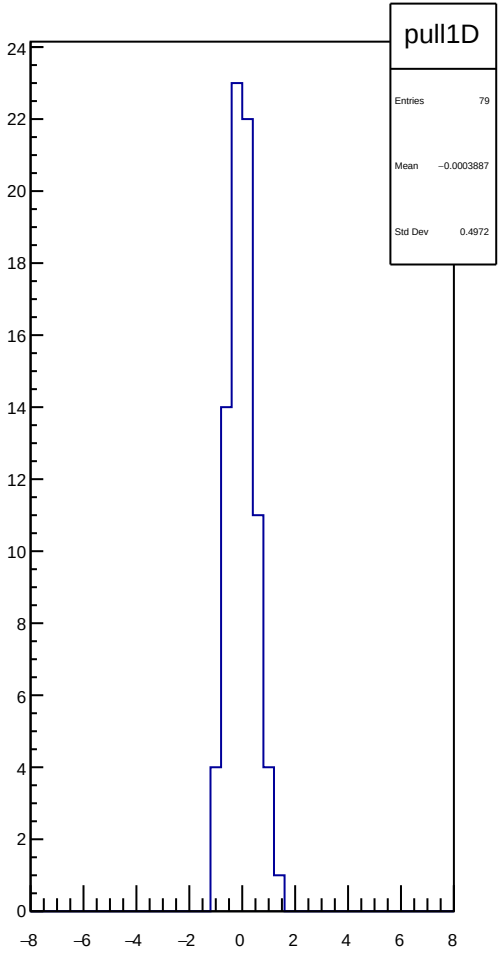

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.223e+04 / 78
p0 347.6 ± 0.2818
400
380
360
340
320
300
280
260
240

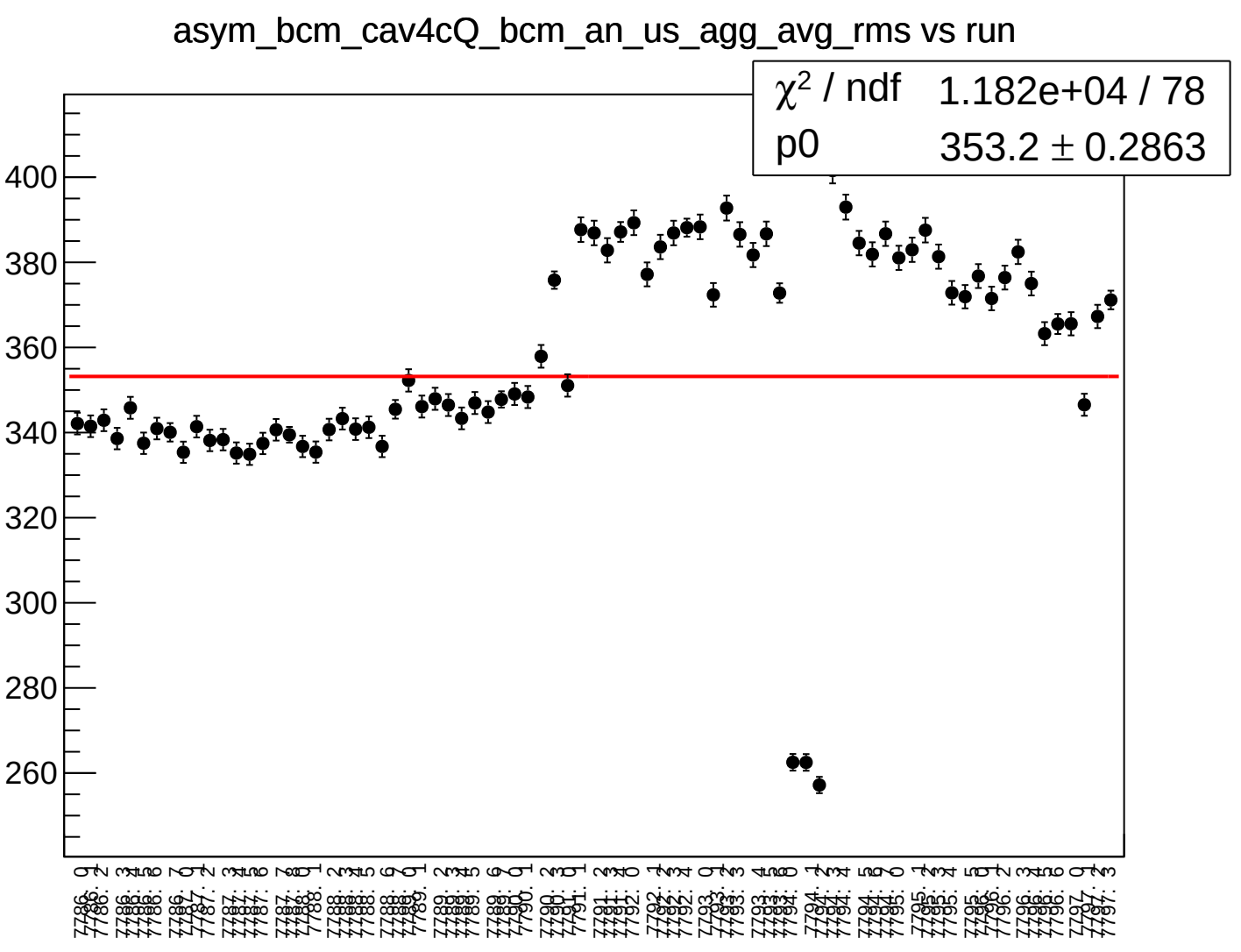

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.31 / 78
p0 22.21 ± 26.62
pull
Entries 79
Mean 19.32
Std Dev 0

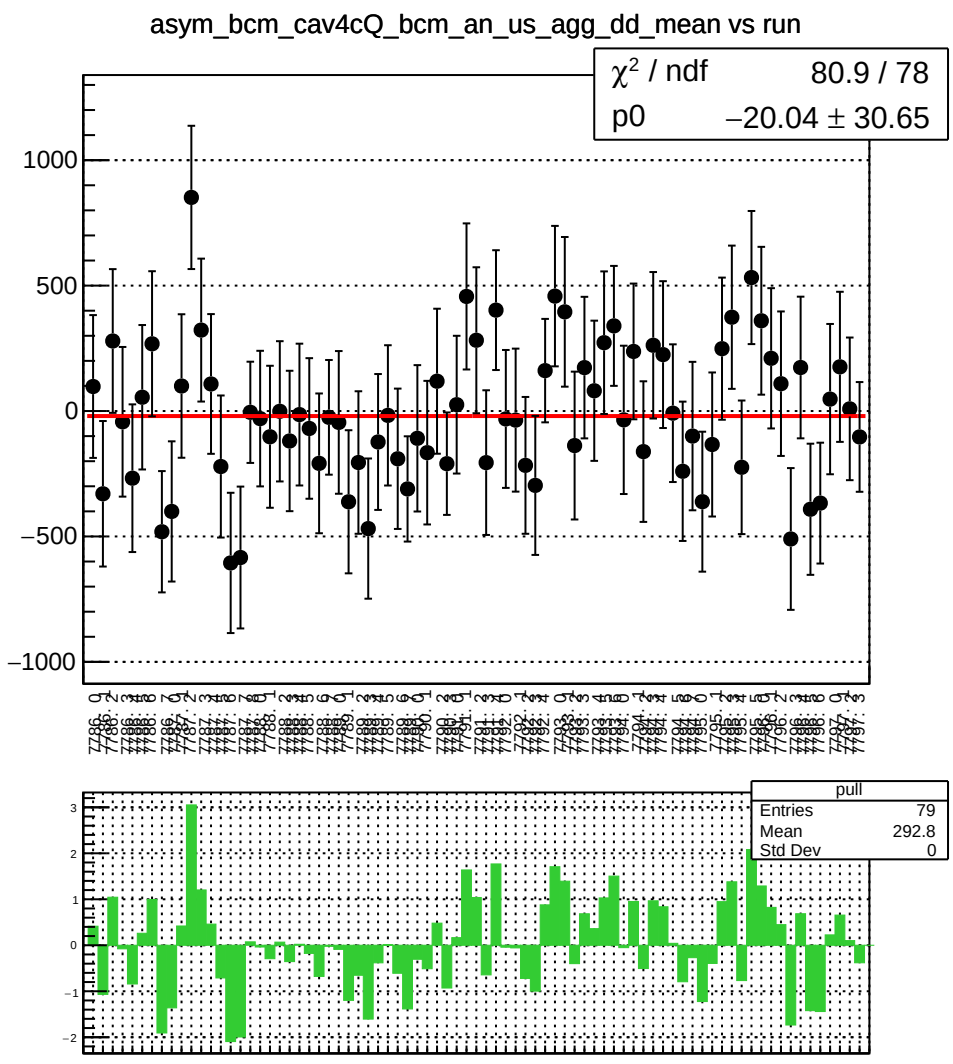

pull1D
Entries 79
Mean 0.01882
Std Dev 0.9826

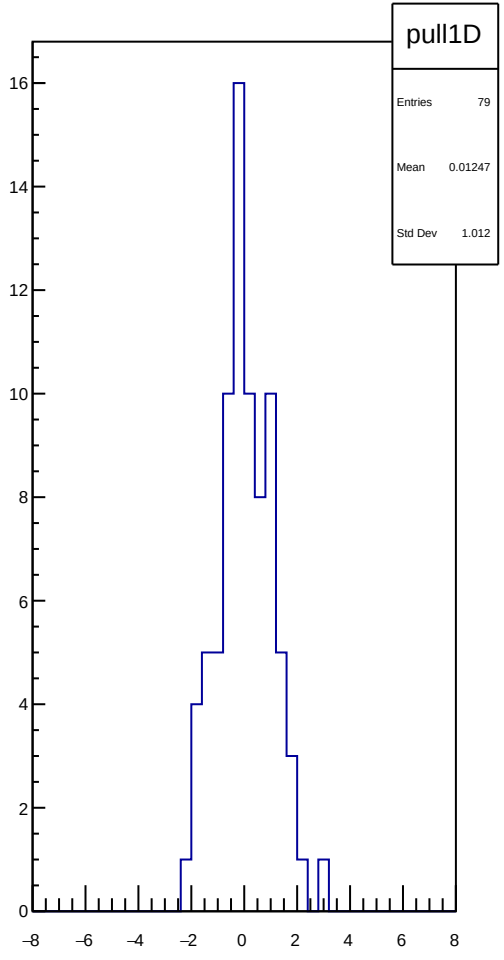

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1566 / 78
p0 23.3 ± 0.01882
25
24.5
24
23.5
23
22.5
22
21.5
21

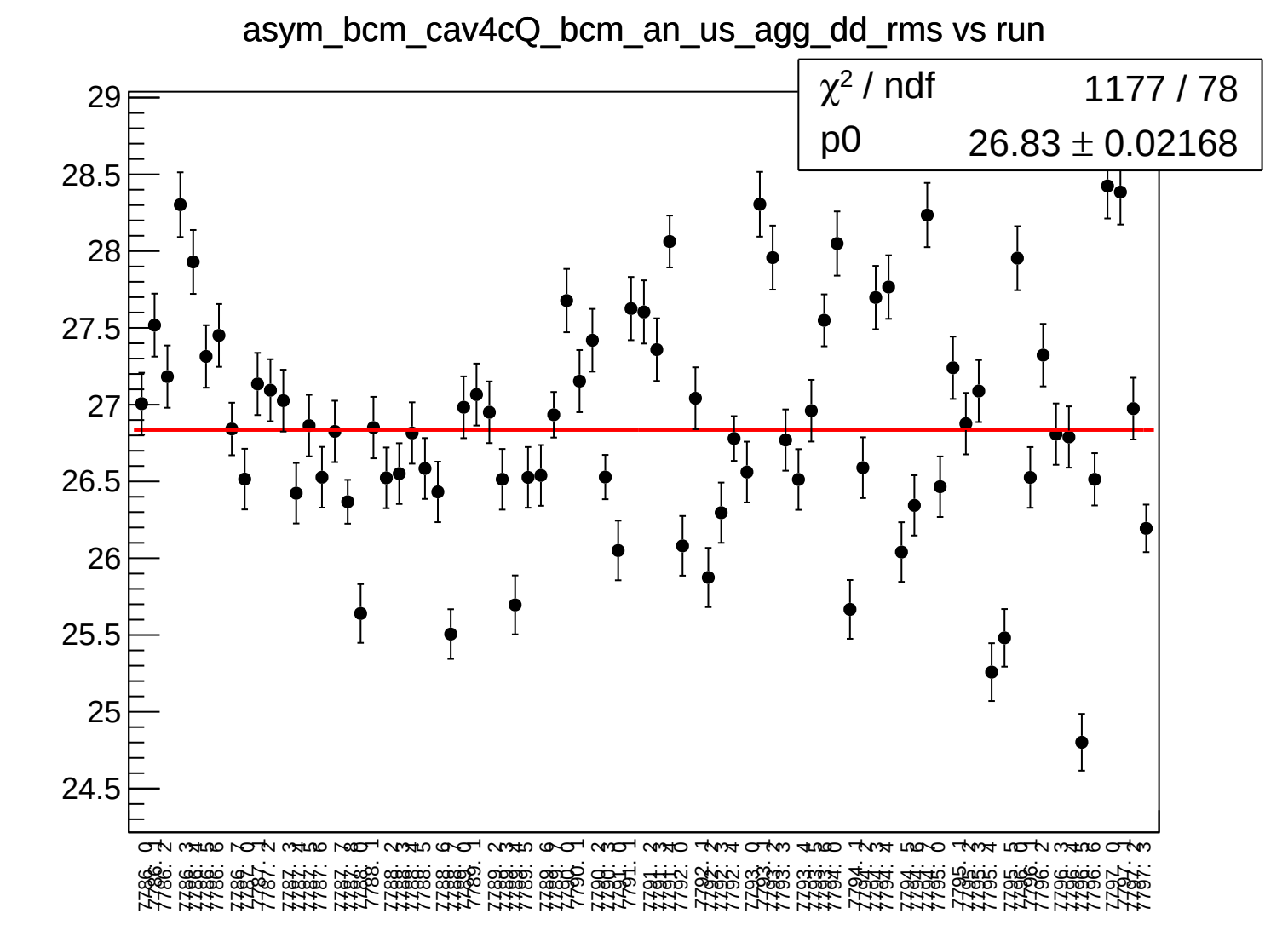

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.53 / 78
p0 446.2 ± 404.9
pull
Entries 79
Mean −3832
Std Dev 0

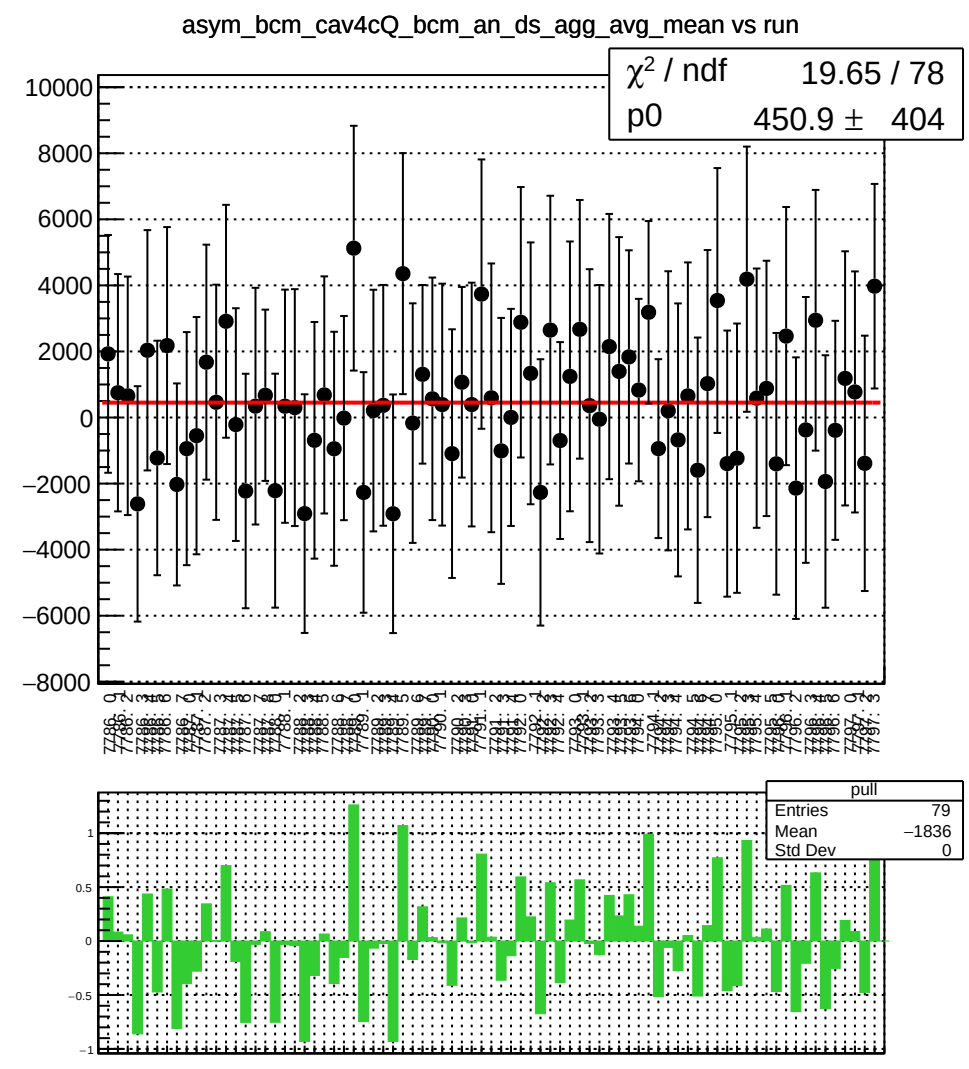

pull1D
Entries 79
Mean −0.0003887
Std Dev 0.4972

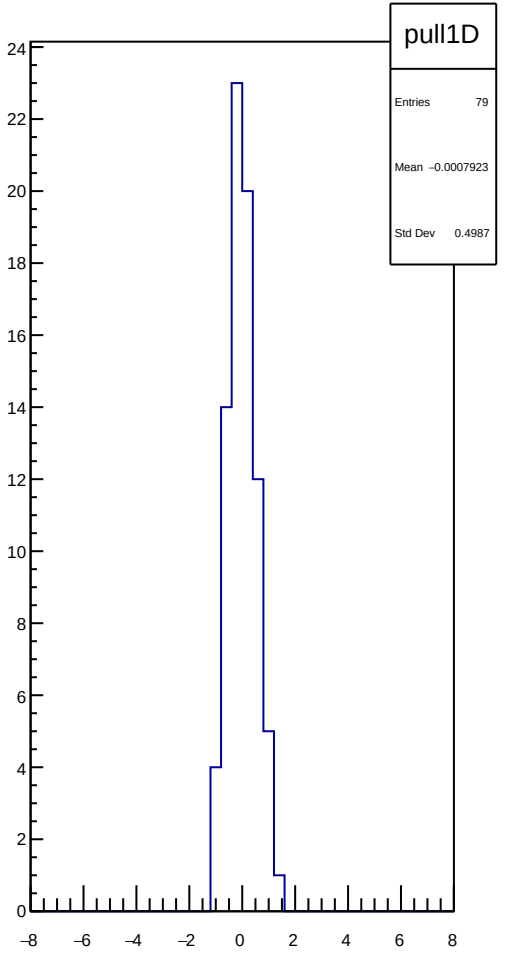

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 1.182e+04 / 78
p0 353.2 ± 0.2863
400
380
360
340
320
300
280
260

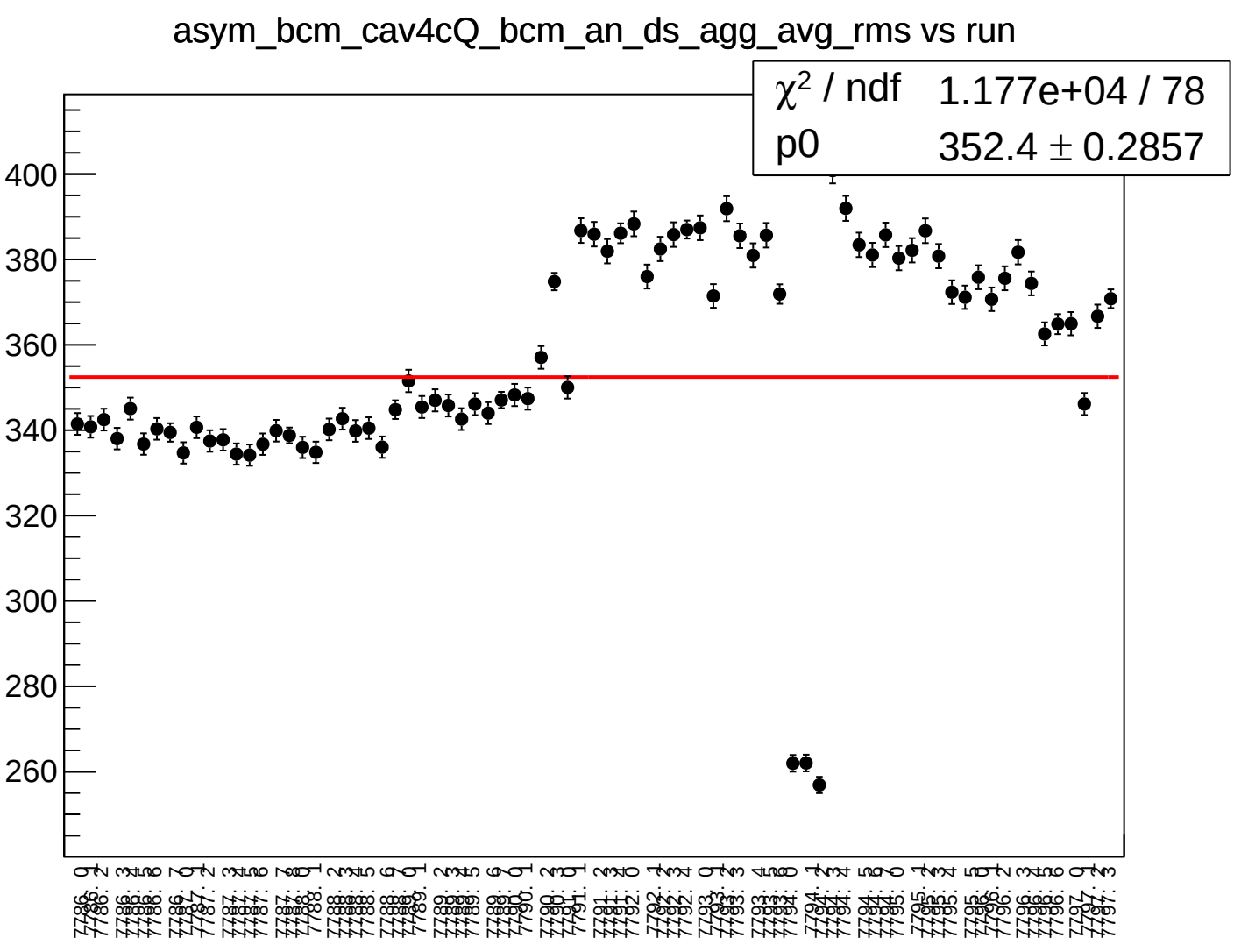

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 80.9 / 78
p0 −20.04 ± 30.65
1000
500
0
−500
−1000
pull
Entries 79
Mean 292.8
Std Dev 0
3
2
1
0
−1
−2

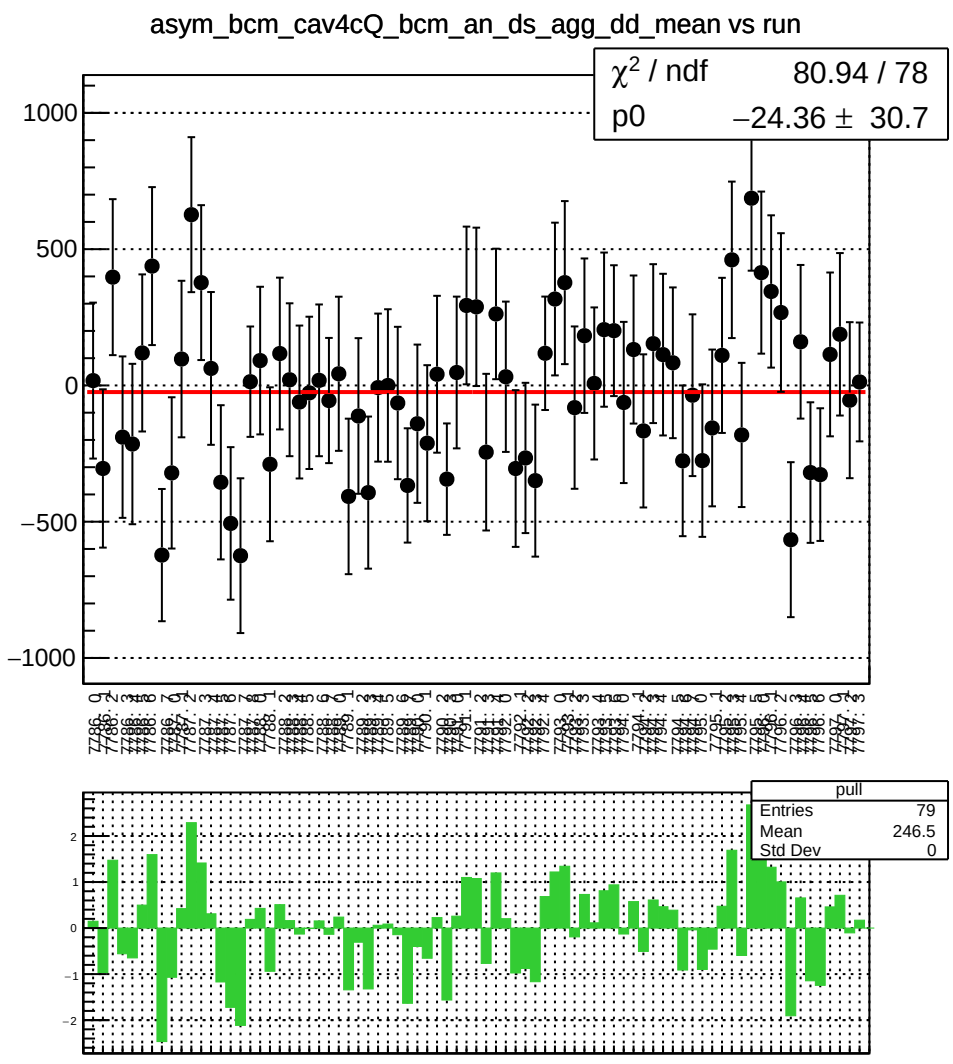

pull1D
Entries 79
Mean 0.01247
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

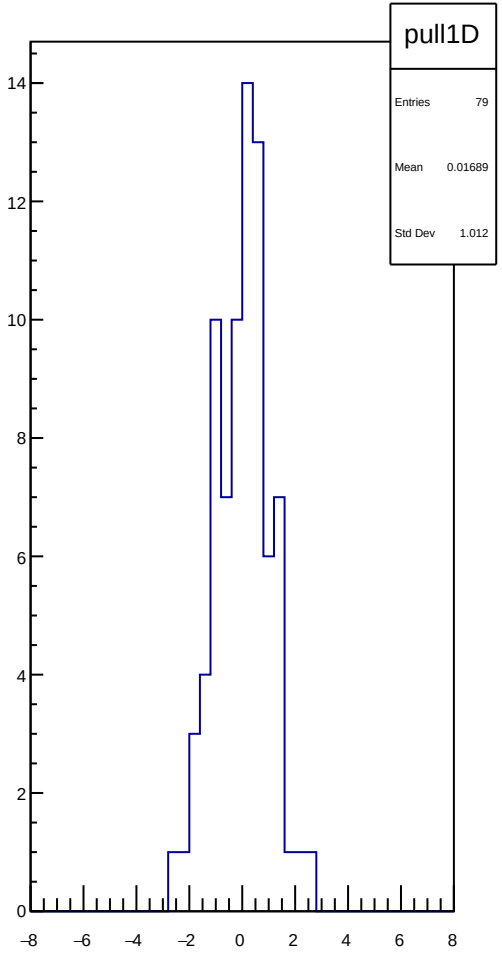

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1177 / 78
p0 26.83 ± 0.02168
29
28.5
28
27.5
27
26.5
26
25.5
25
24.5

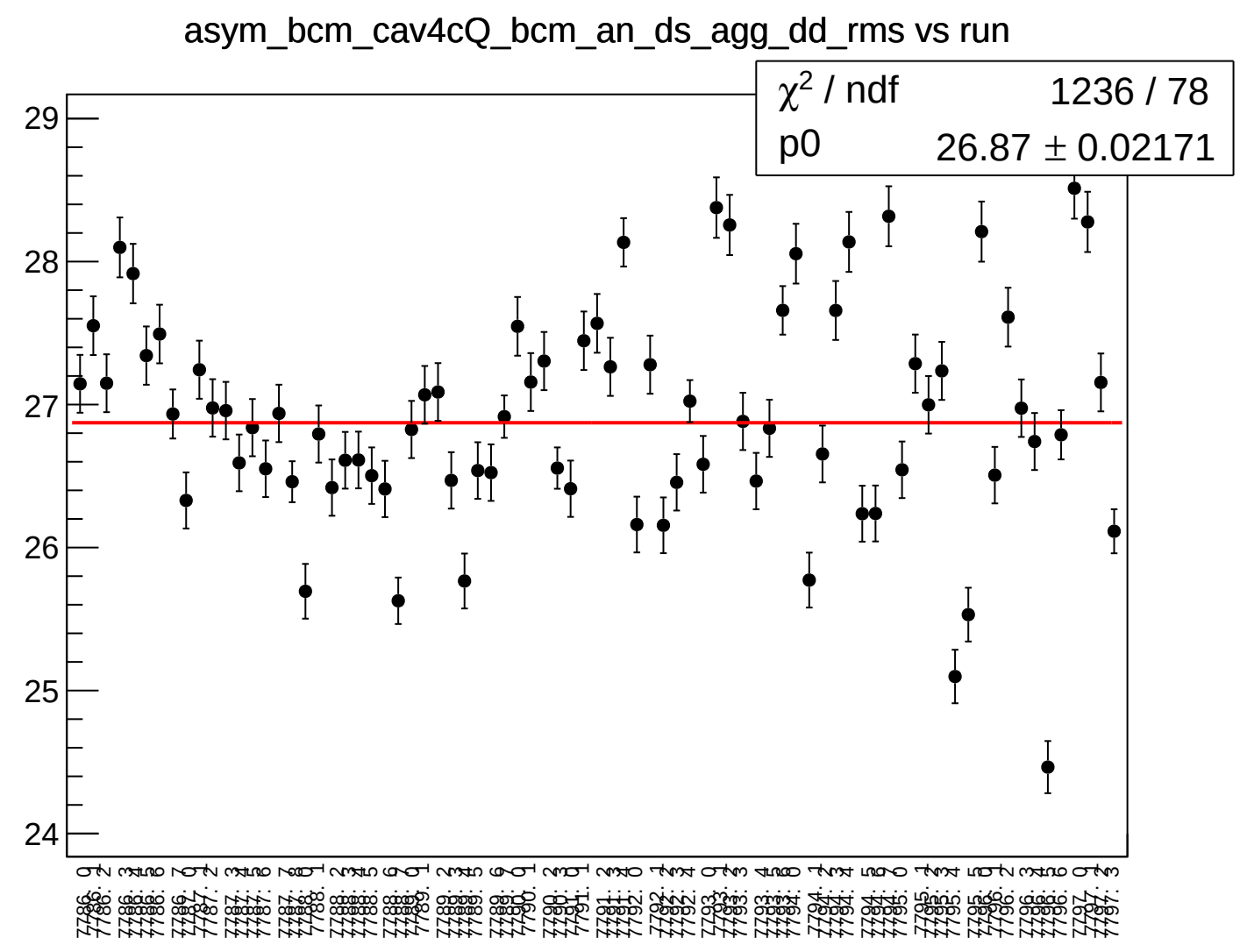

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.65 / 78
p0 450.9 ± 404
pull
Entries 79
Mean −1836
Std Dev 0

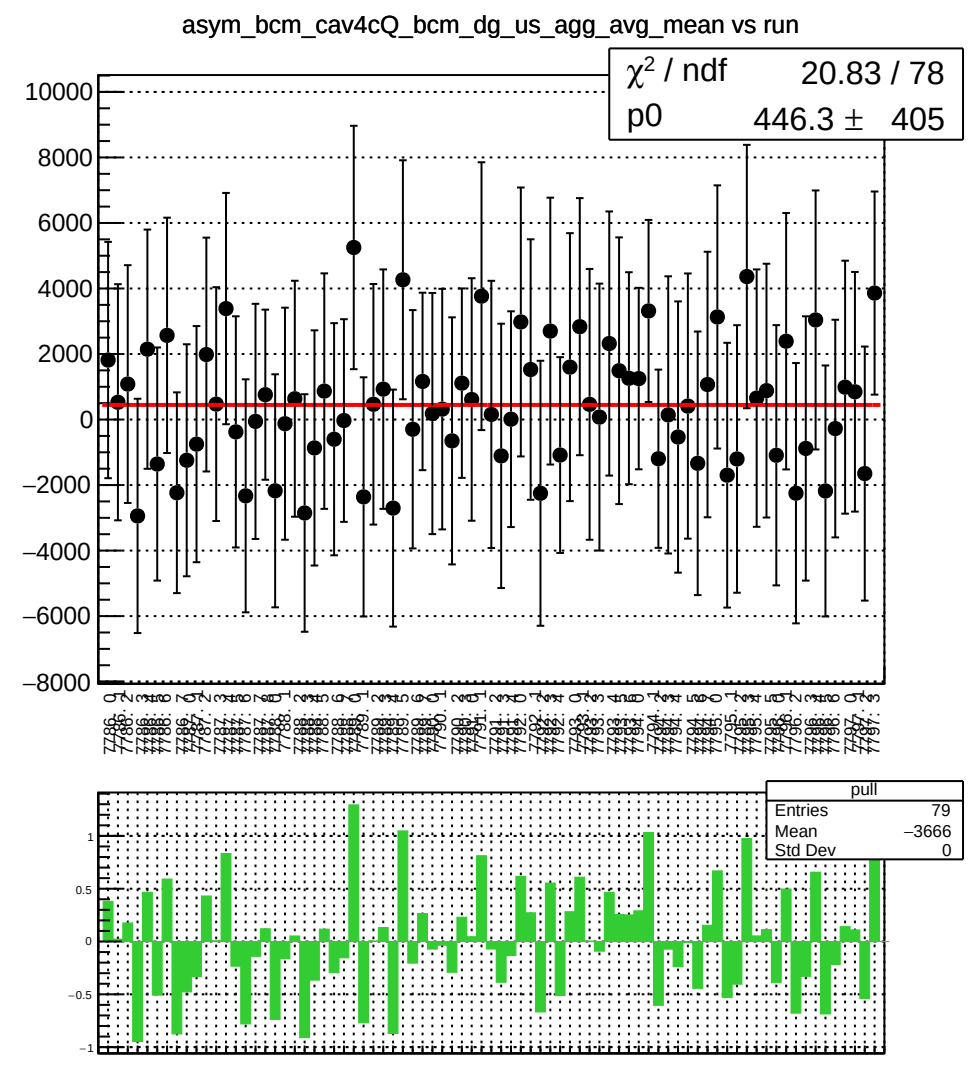

pull1D
Entries 79
Mean −0.0007923
Std Dev 0.4987

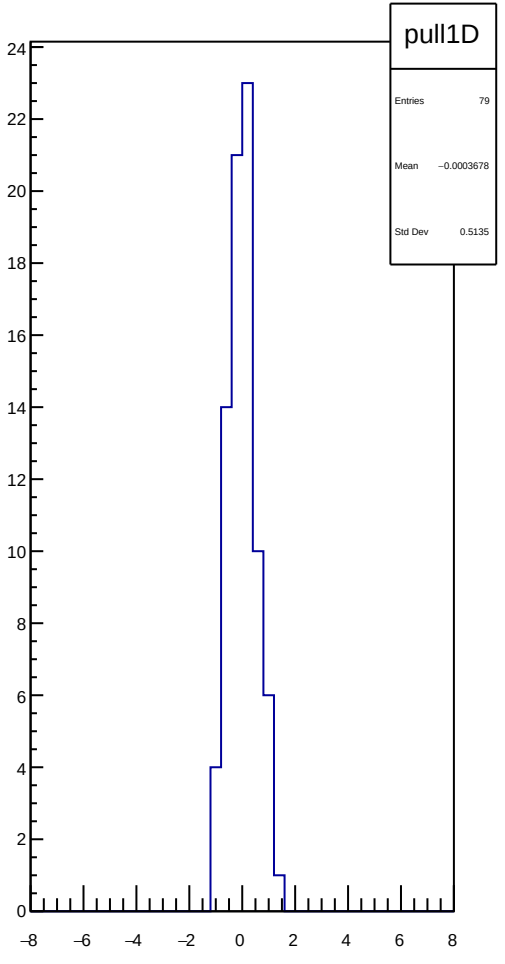

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.177e+04 / 78
p0 352.4 ± 0.2857
400
380
360
340
320
300
280
260

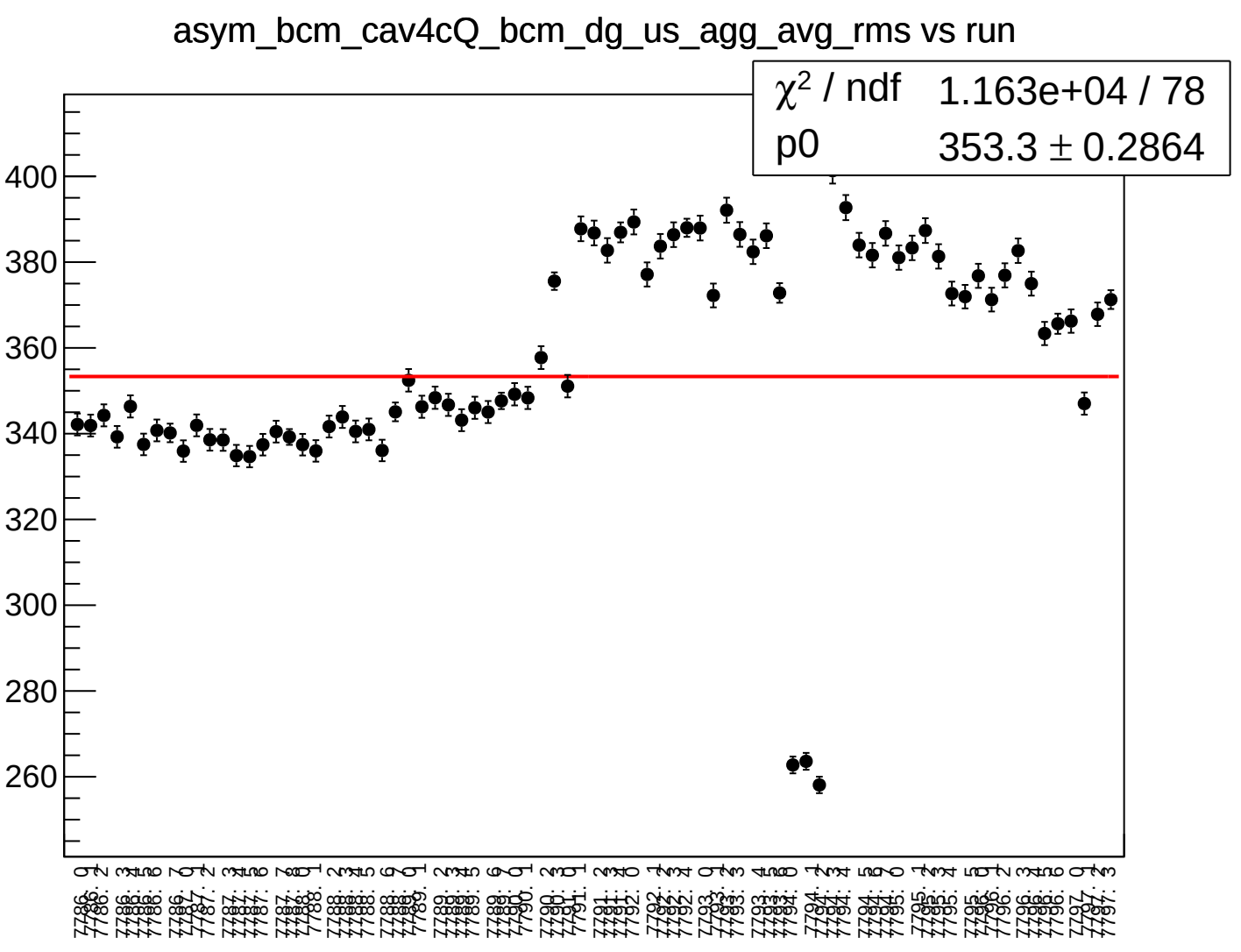

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 80.94 / 78
p0 −24.36 ± 30.7
1000
500
0
−500
−1000
pull
Entries 79
Mean 246.5
Std Dev 0
2
1
0
−1
−2

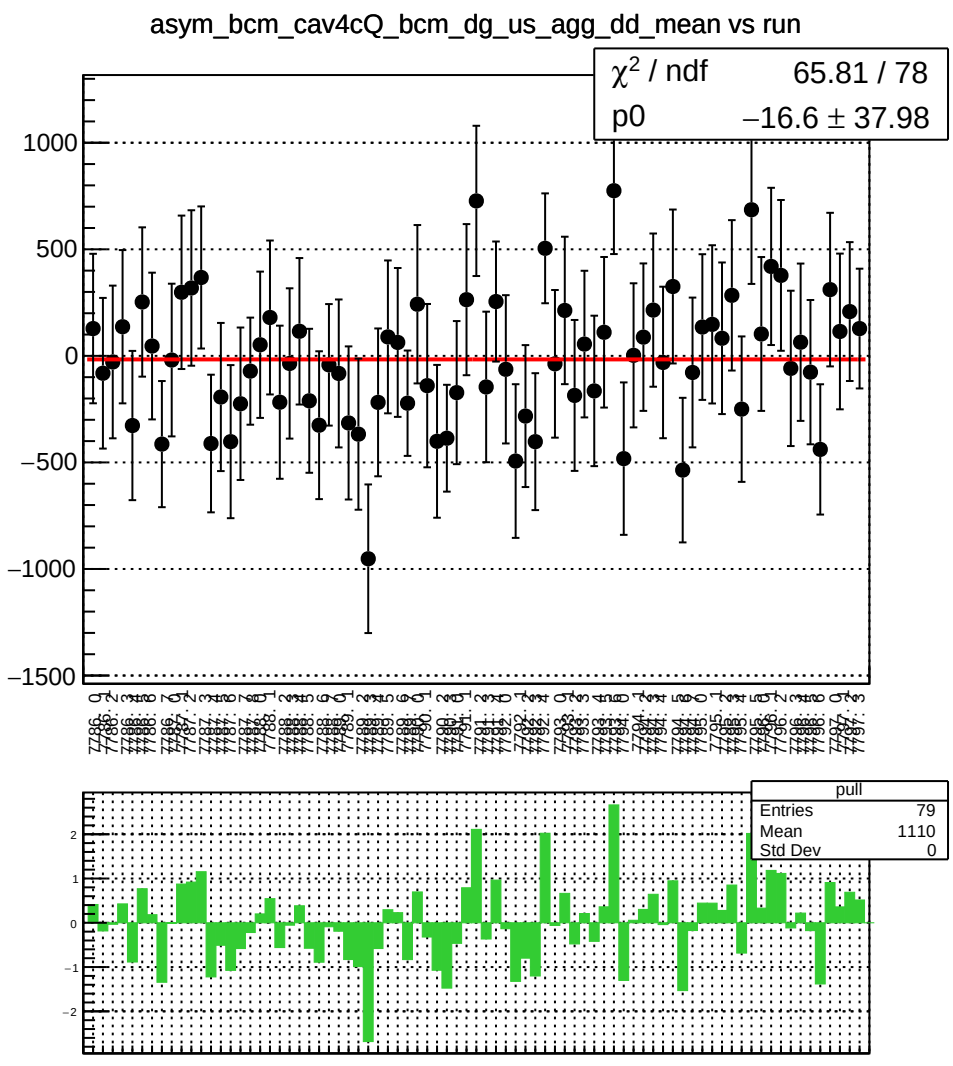

pull1D
Entries 79
Mean 0.01689
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

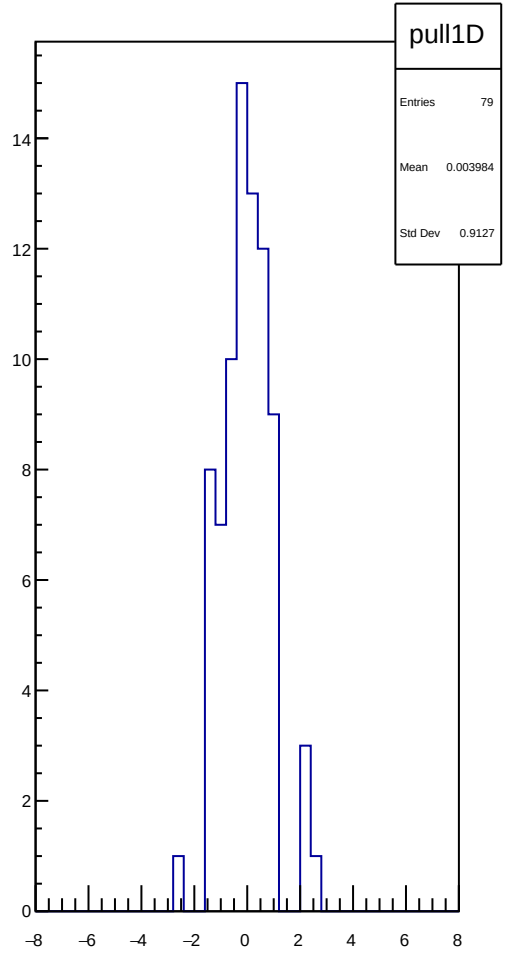

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1236 / 78
p0 26.87 ± 0.02171
29
28
27
26
25
24

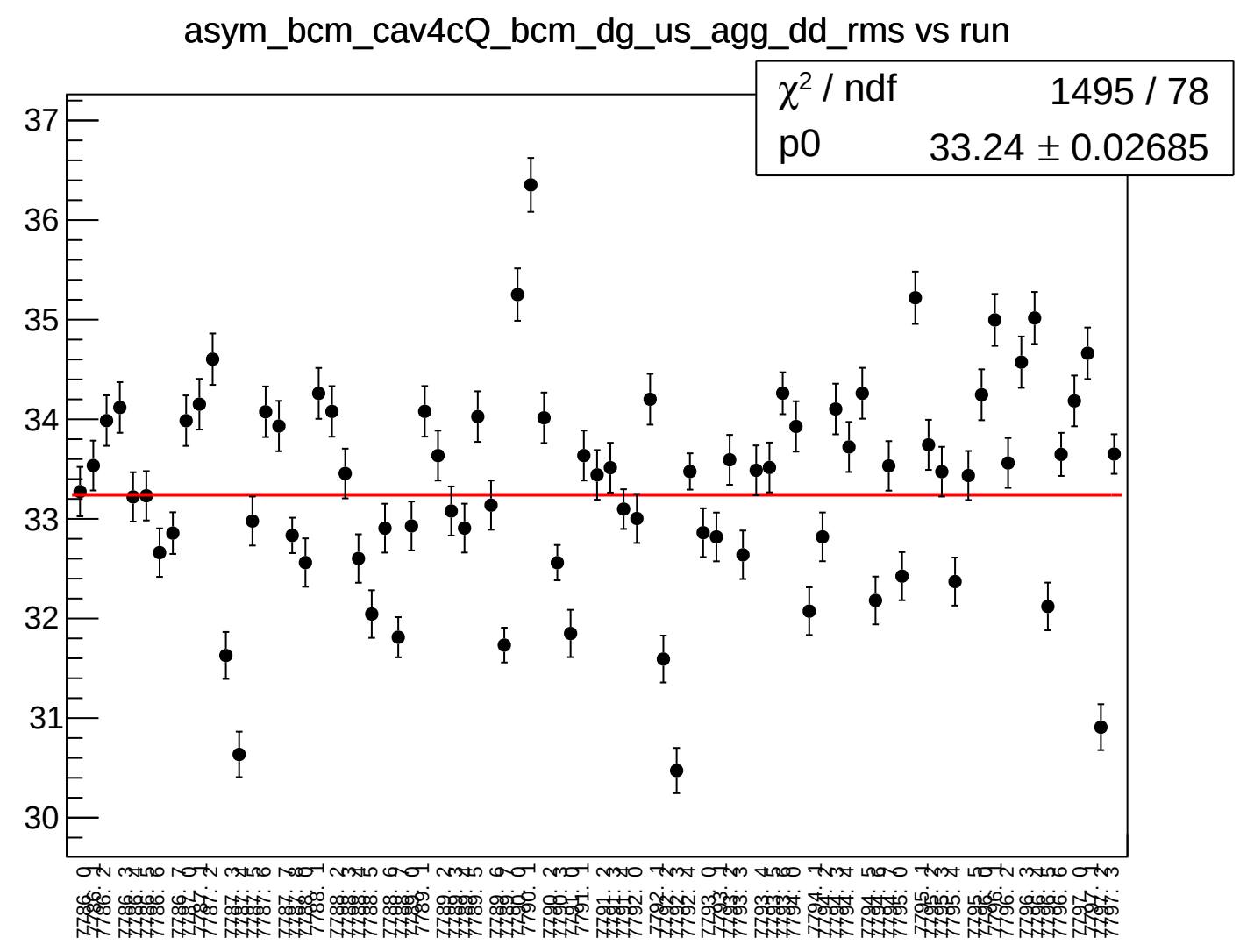

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 20.83 / 78
p0 446.3 ± 405
pull
Entries 79
Mean −3666
Std Dev 0

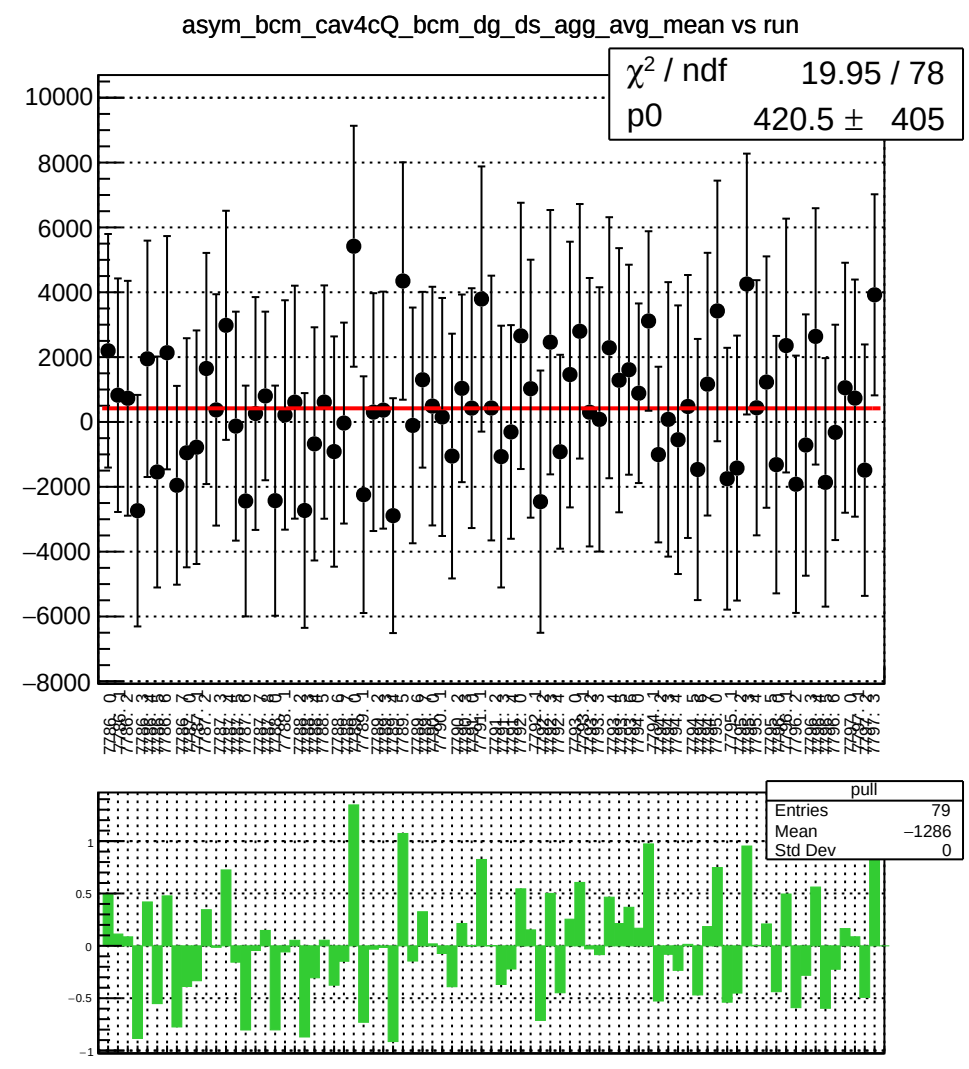

pull1D
Entries 79
Mean −0.0003678
Std Dev 0.5135

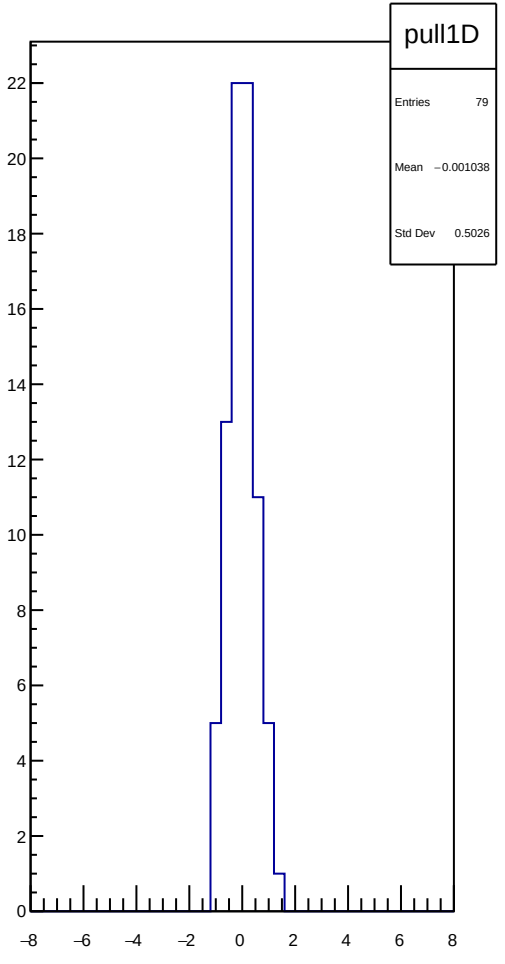

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ^2 / ndf 1.163e+04 / 78
p0 353.3 ± 0.2864
400
380
360
340
320
300
280
260

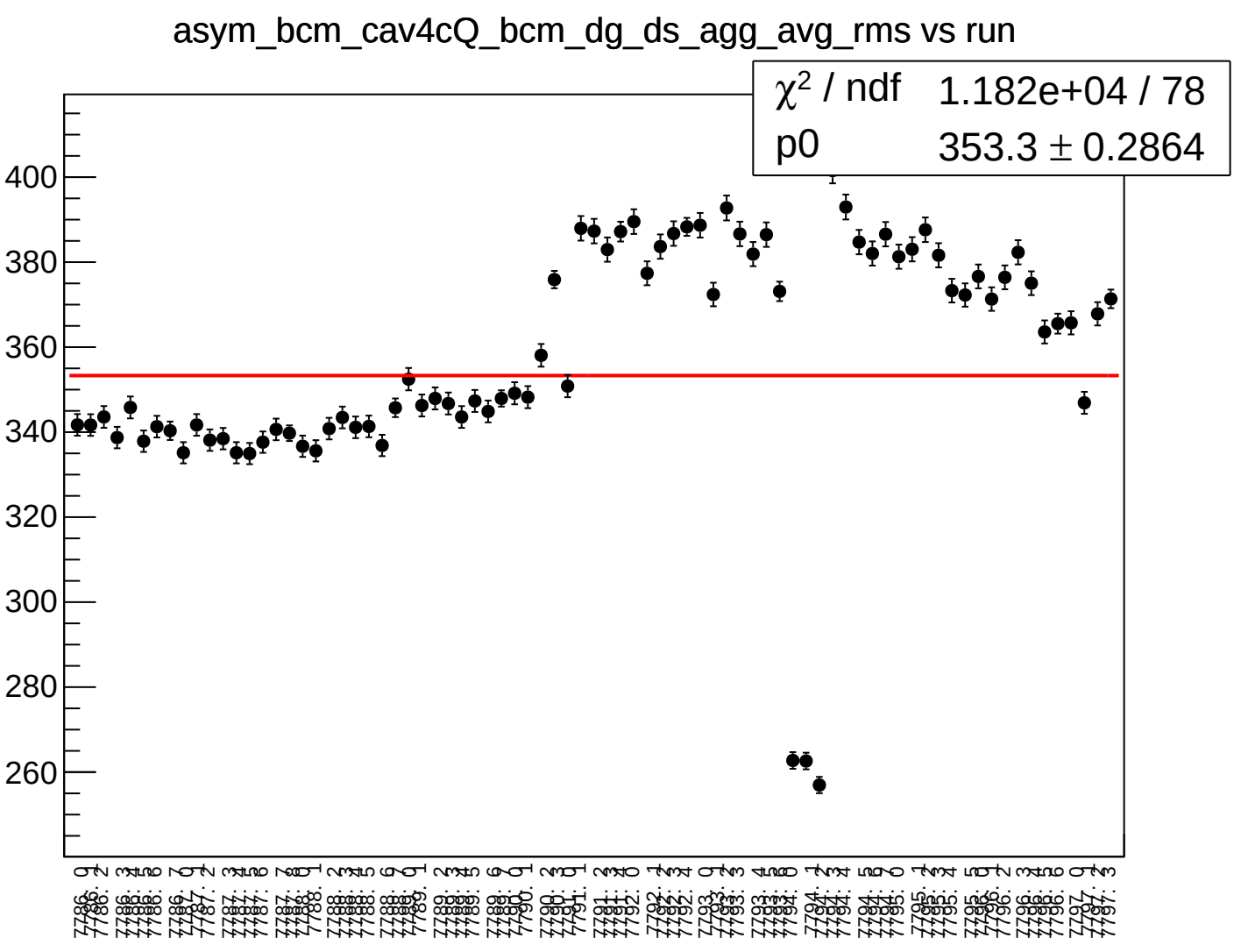

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 65.81 / 78
p0 −16.6 ± 37.98
1000
500
0
−500
−1000
−1500
pull
Entries 79
Mean 1110
Std Dev 0
2
1
0
−1
−2

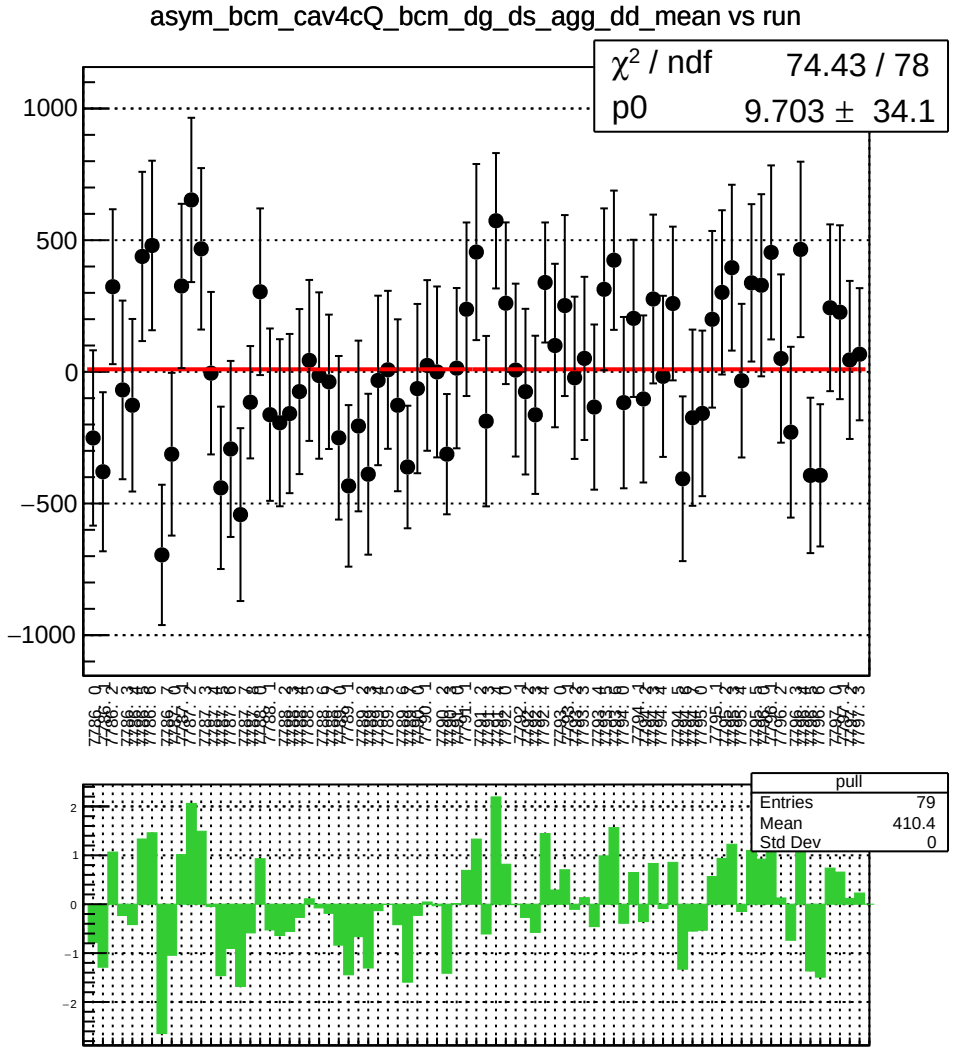

pull1D
Entries 79
Mean 0.003984
Std Dev 0.9127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

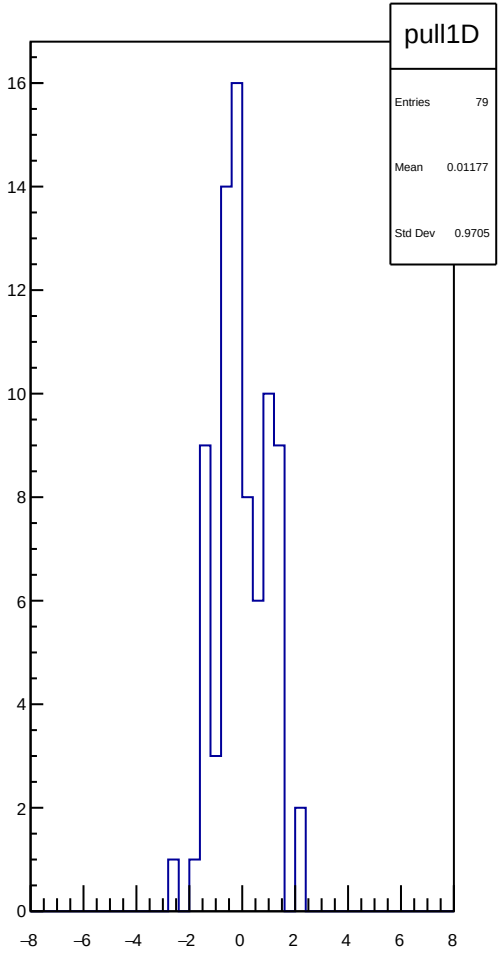

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1495 / 78
p0 33.24 ± 0.02685
37
36
35
34
33
32
31
30

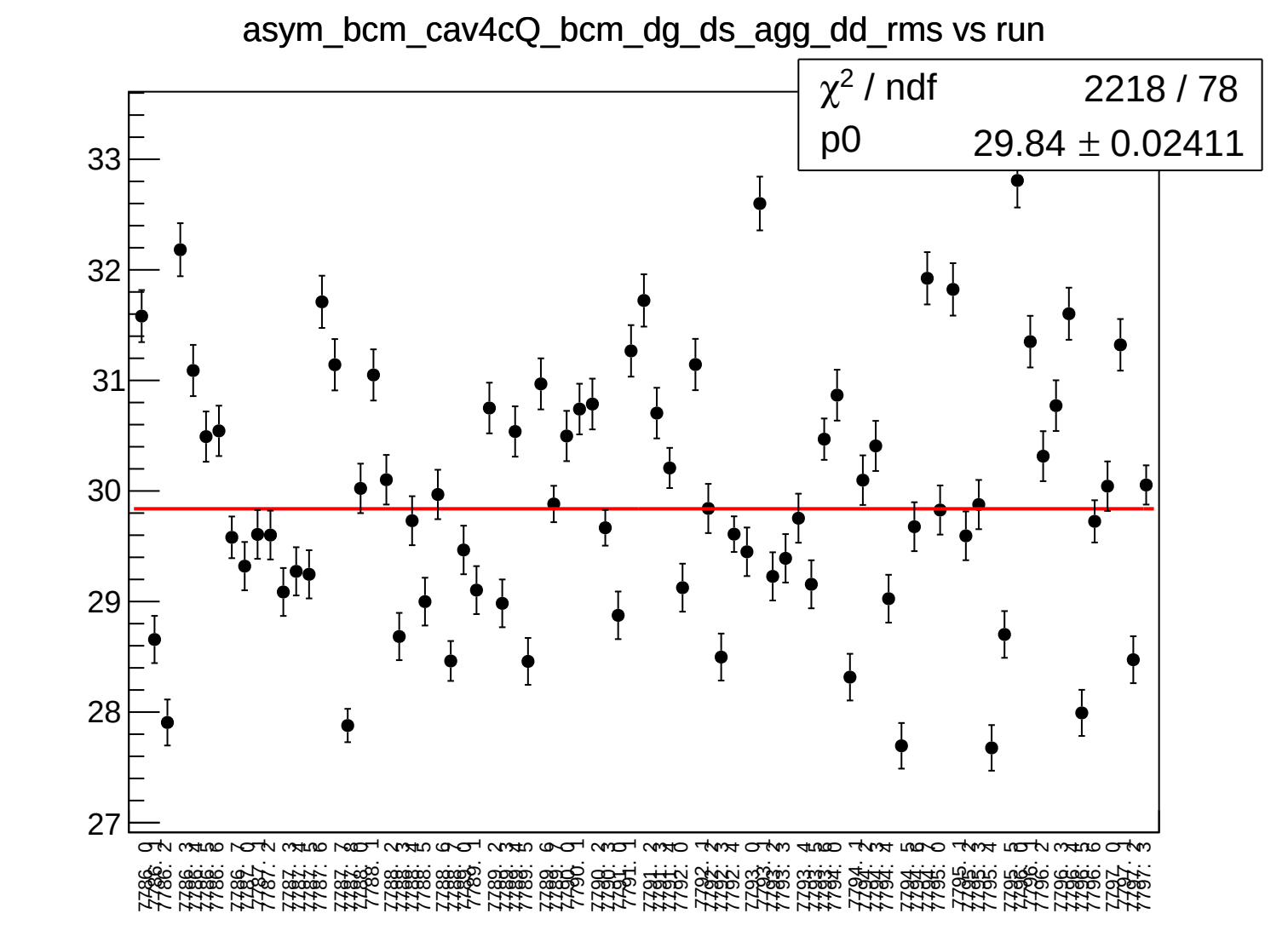

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 19.95 / 78
p0 420.5 ± 405
pull
Entries 79
Mean −1286
Std Dev 0

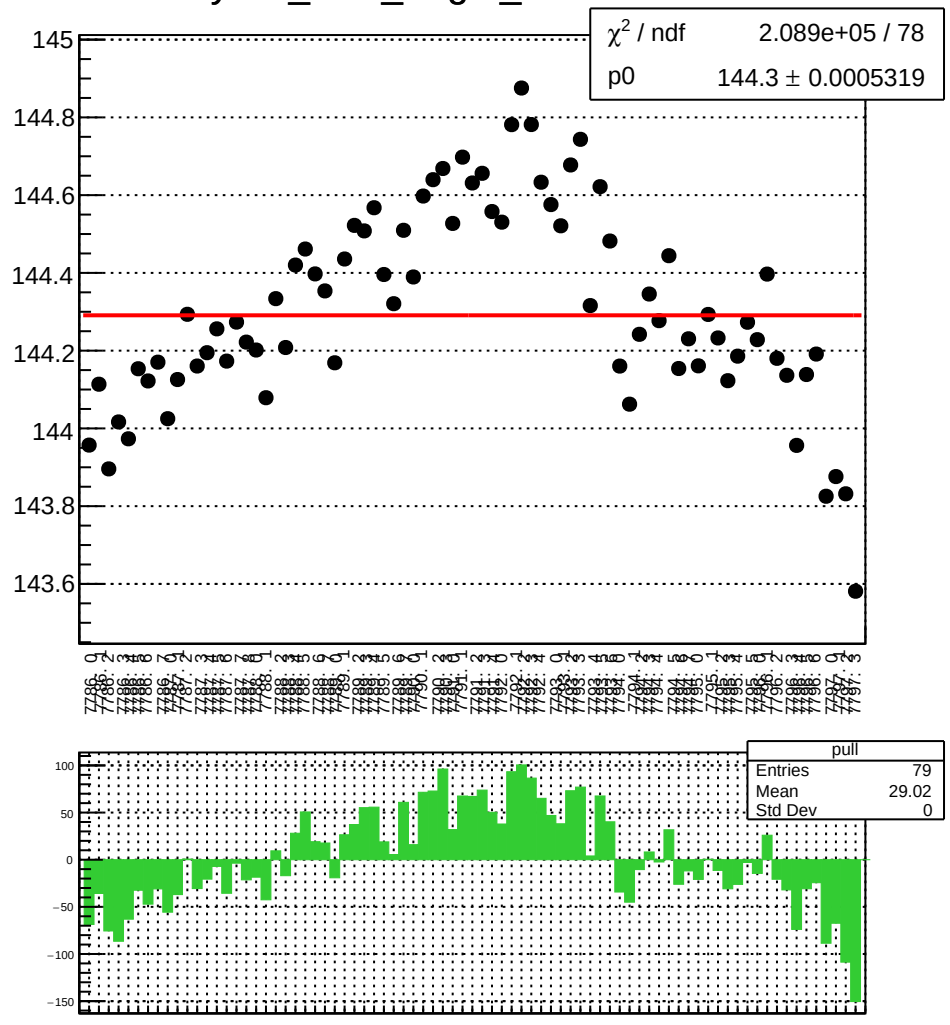

pull1D
Entries 79
Mean −0.001038
Std Dev 0.5026

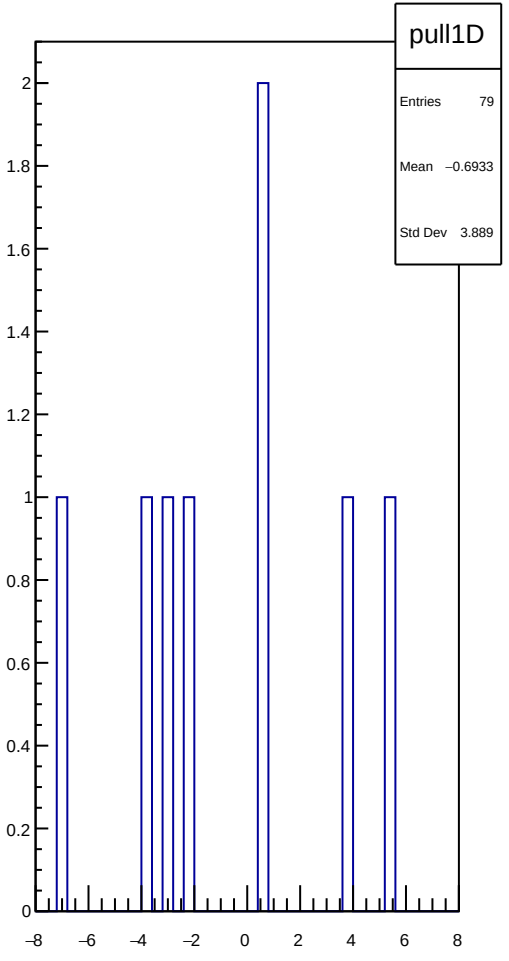

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.182e+04 / 78
p0 353.3 ± 0.2864
400
380
360
340
320
300
280
260

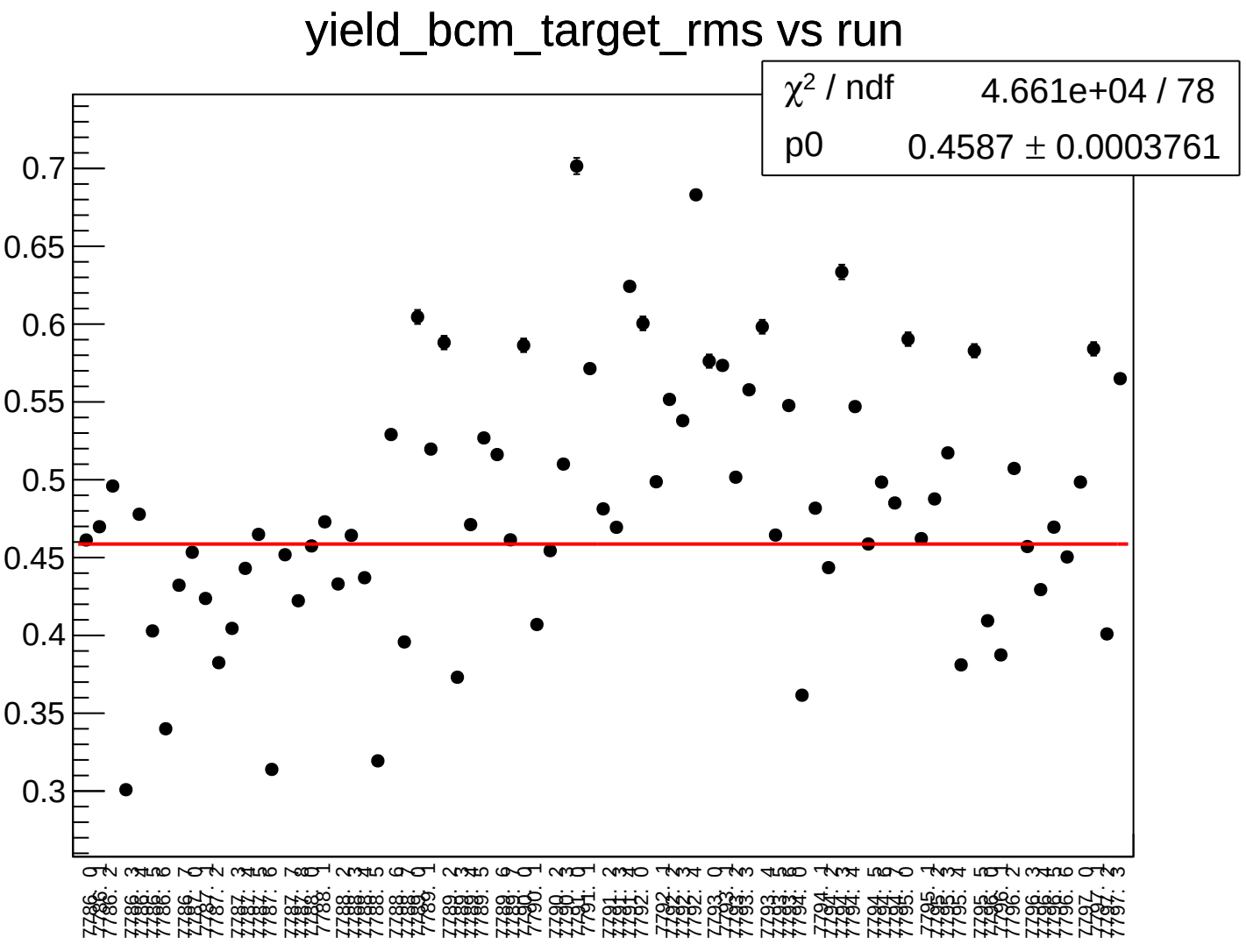

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 74.43 / 78
p0 9.703 ± 34.1
1000
500
0
−500
−1000
pull
Entries 79
Mean 410.4
Std Dev 0
2
1
0
−1
−2

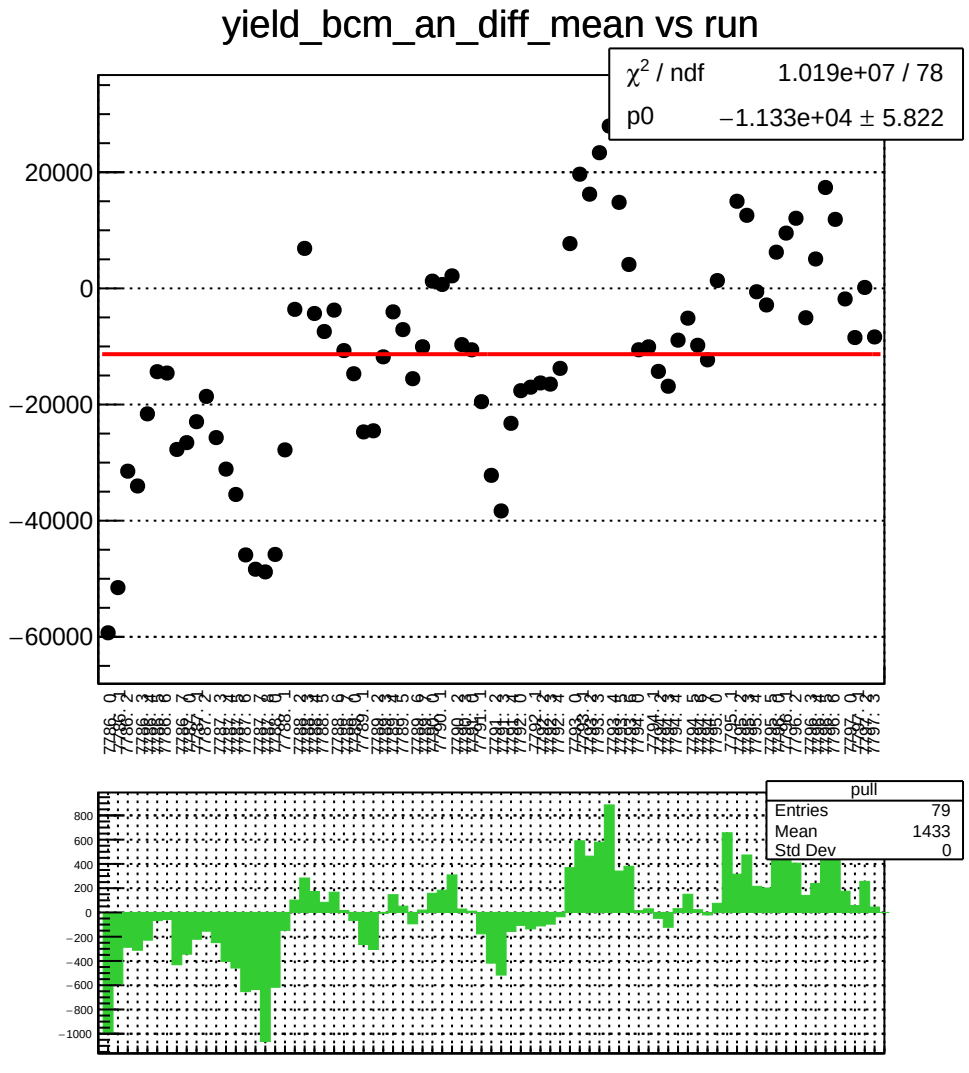

pull1D
Entries 79
Mean 0.01177
Std Dev 0.9705
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

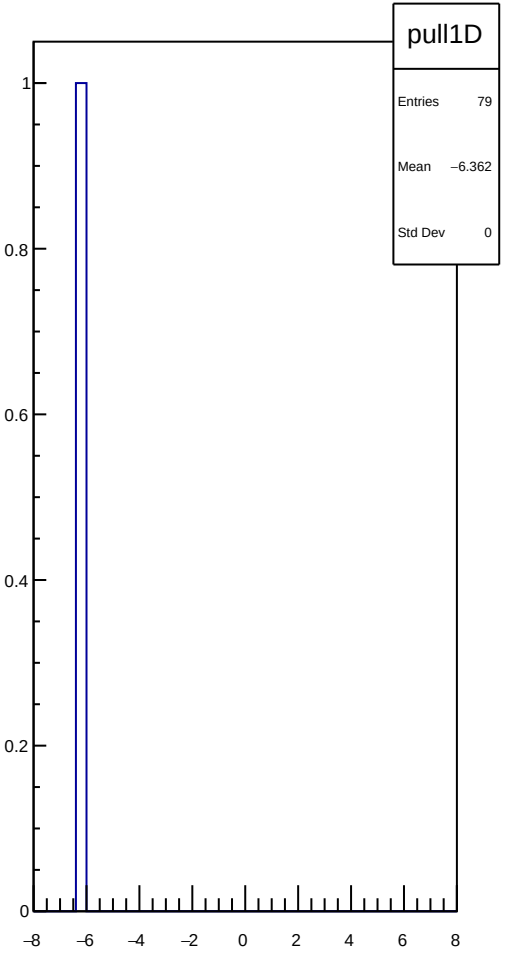

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2218 / 78
p0 29.84 ± 0.02411
33
32
31
30
29
28
27

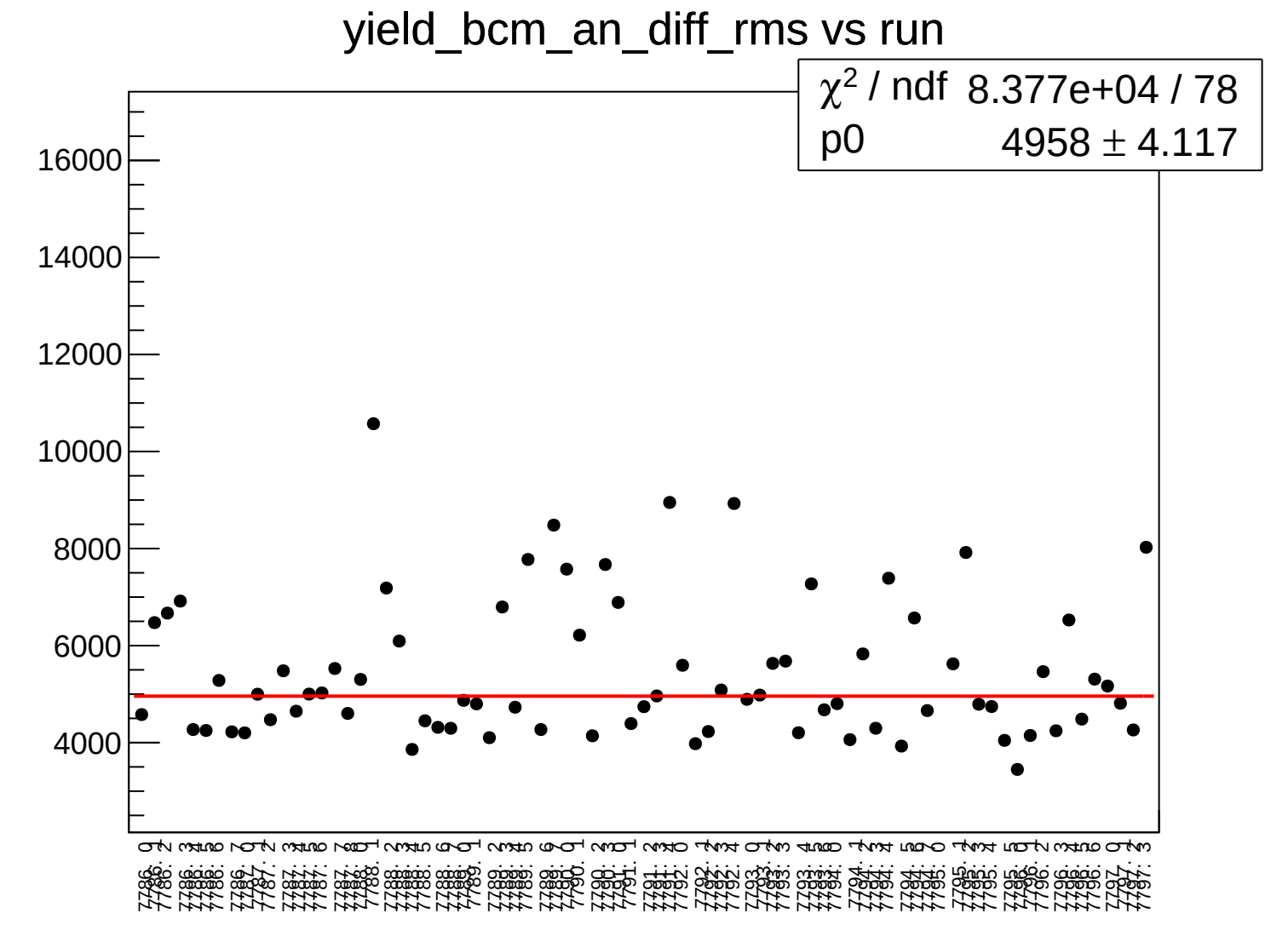

yield_bcm_target_mean vs run
χ² / ndf 2.089e+05 / 78
p0 144.3 ± 0.0005319
145
144.8
144.6
144.4
144.2
144
143.8
143.6
pull
Entries 79
Mean 29.02
Std Dev 0
100
50
0
−50
−100
−150

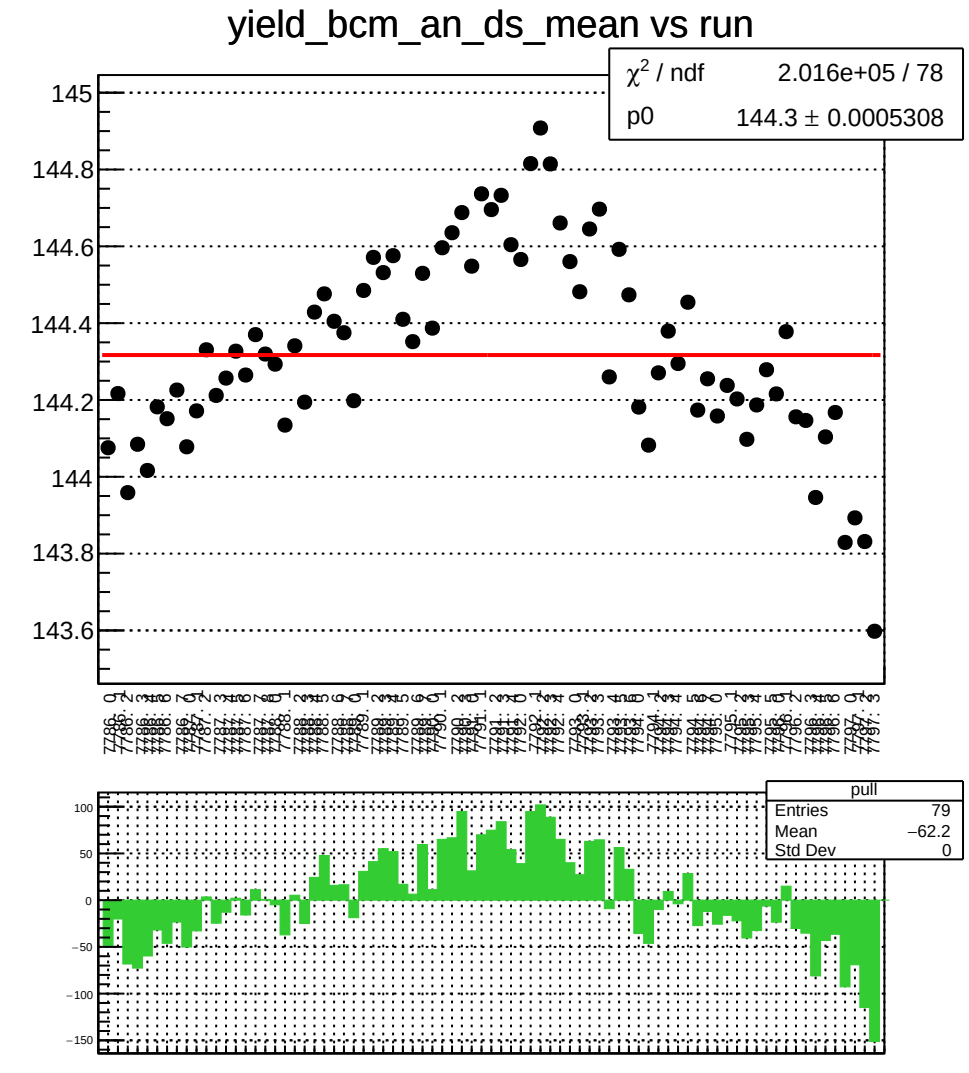

pull1D
Entries 79
Mean −0.6933
Std Dev 3.889
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

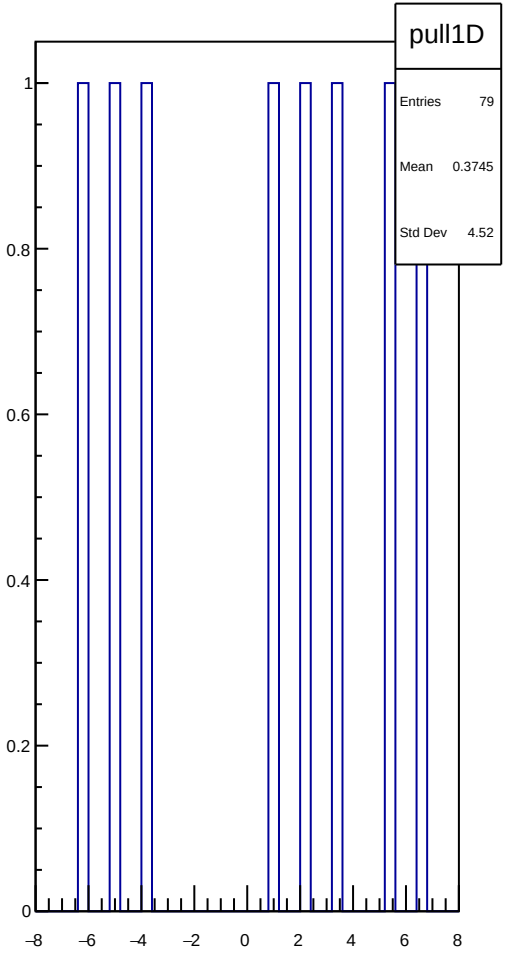

yield_bcm_target_rms vs run
χ² / ndf 4.661e+04 / 78
p0 0.4587 ± 0.0003761
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

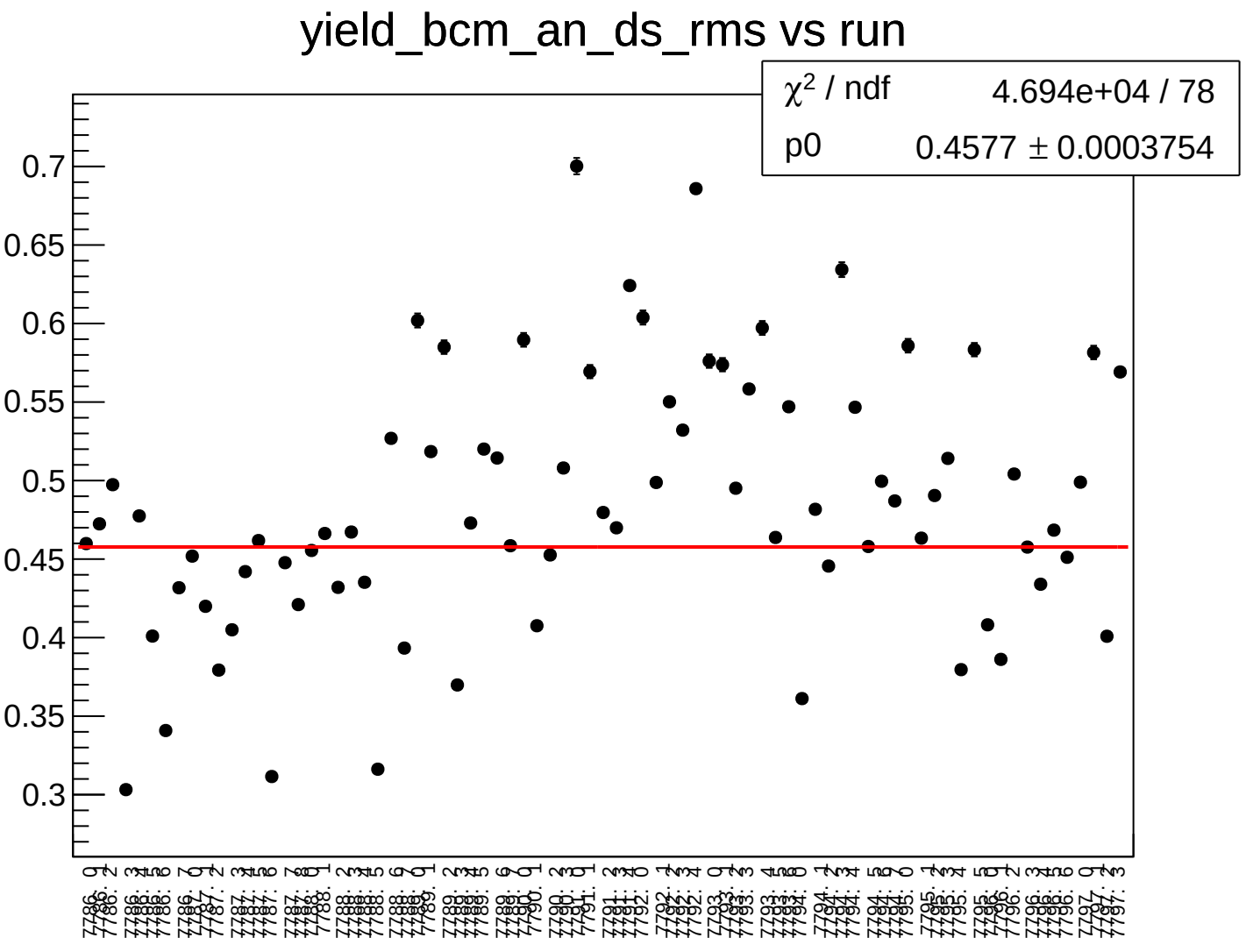

yield_bcm_an_diff_mean vs run
χ² / ndf 1.019e+07 / 78
p0 −1.133e+04 ± 5.822
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 1433
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

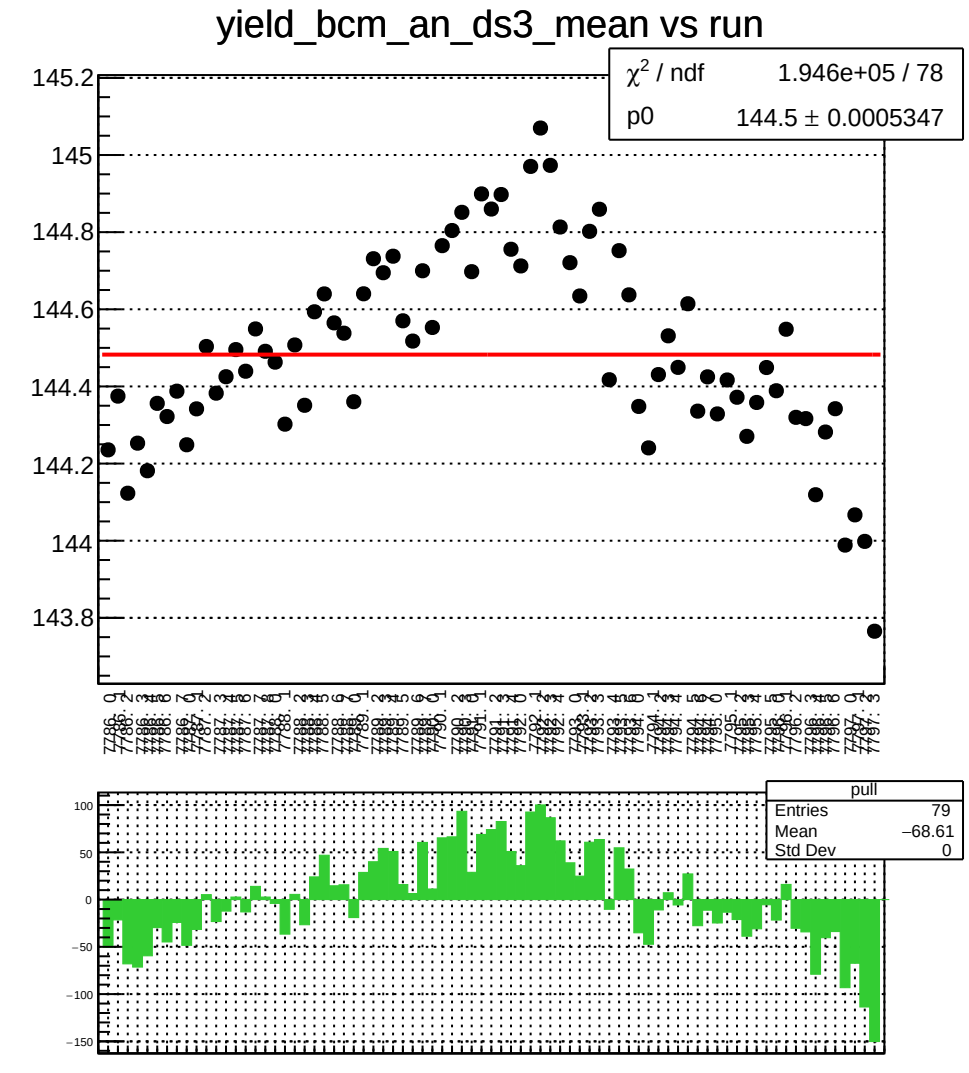

pull1D
Entries 79
Mean −6.362
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

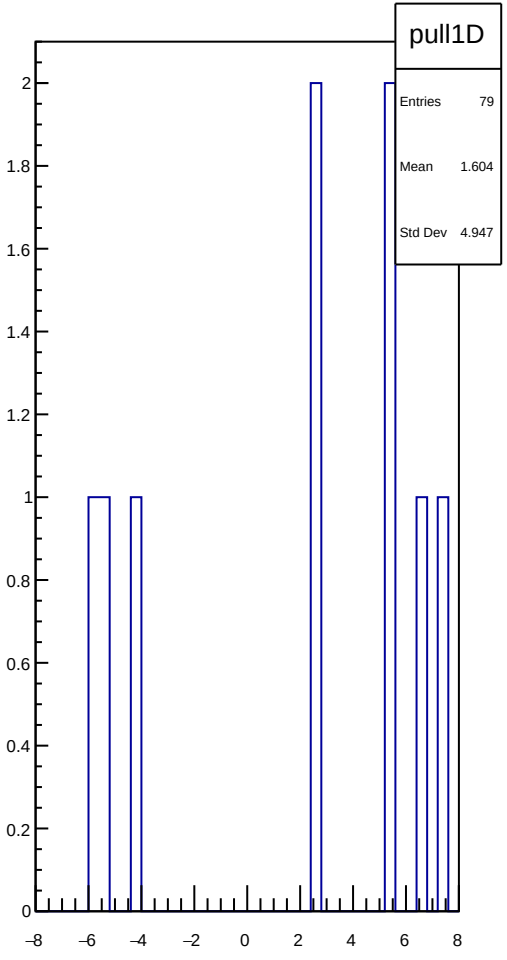

yield_bcm_an_diff_rms vs run
χ^2 / ndf 8.377e+04 / 78
p0 4958 ± 4.117
16000
14000
12000
10000
8000
6000
4000

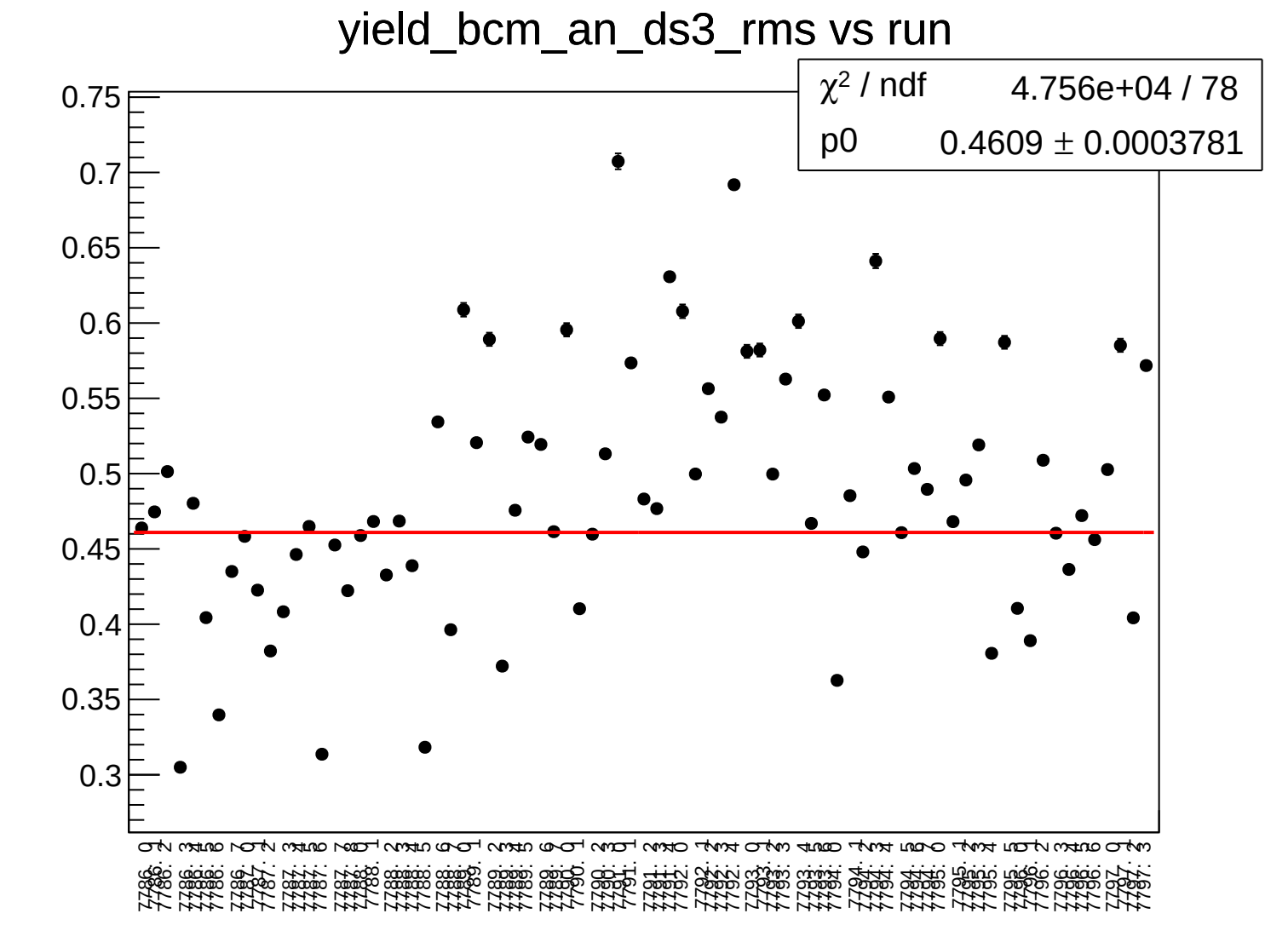

yield_bcm_an_ds_mean vs run
χ² / ndf 2.016e+05 / 78
p0 144.3 ± 0.0005308
145
144.8
144.6
144.4
144.2
144
143.8
143.6
pull
Entries 79
Mean −62.2
Std Dev 0
100
50
0
−50
−100
−150

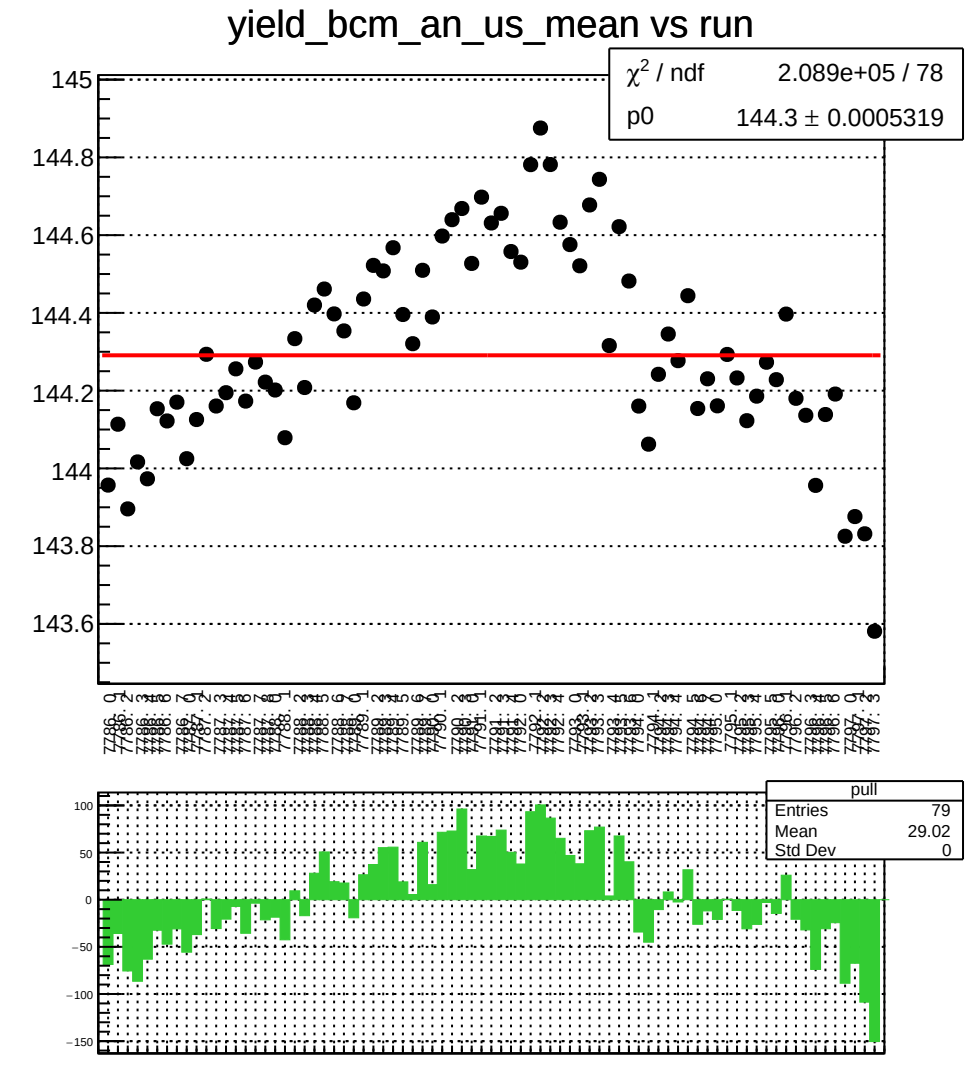

pull1D
Entries 79
Mean 0.3745
Std Dev 4.52
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

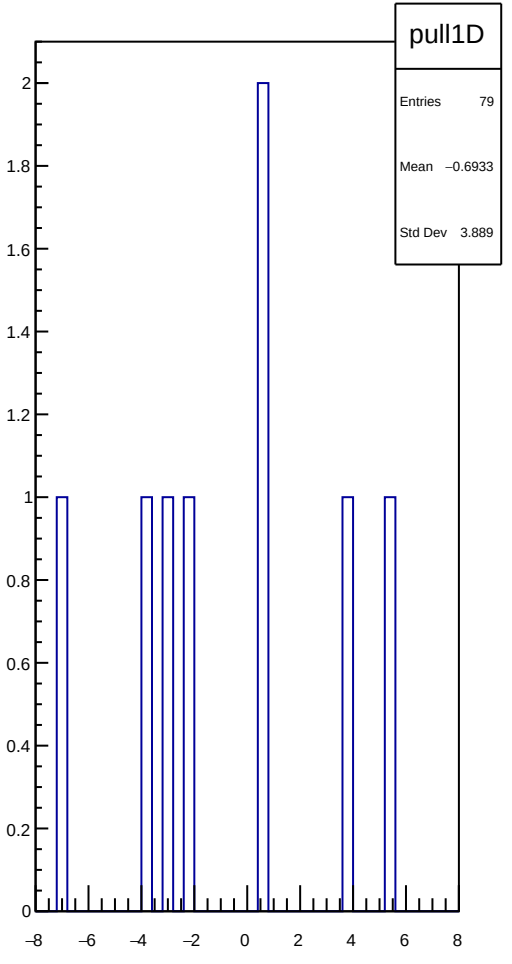

yield_bcm_an_ds_rms vs run
χ^2 / ndf 4.694e+04 / 78
p0 0.4577 ± 0.0003754
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

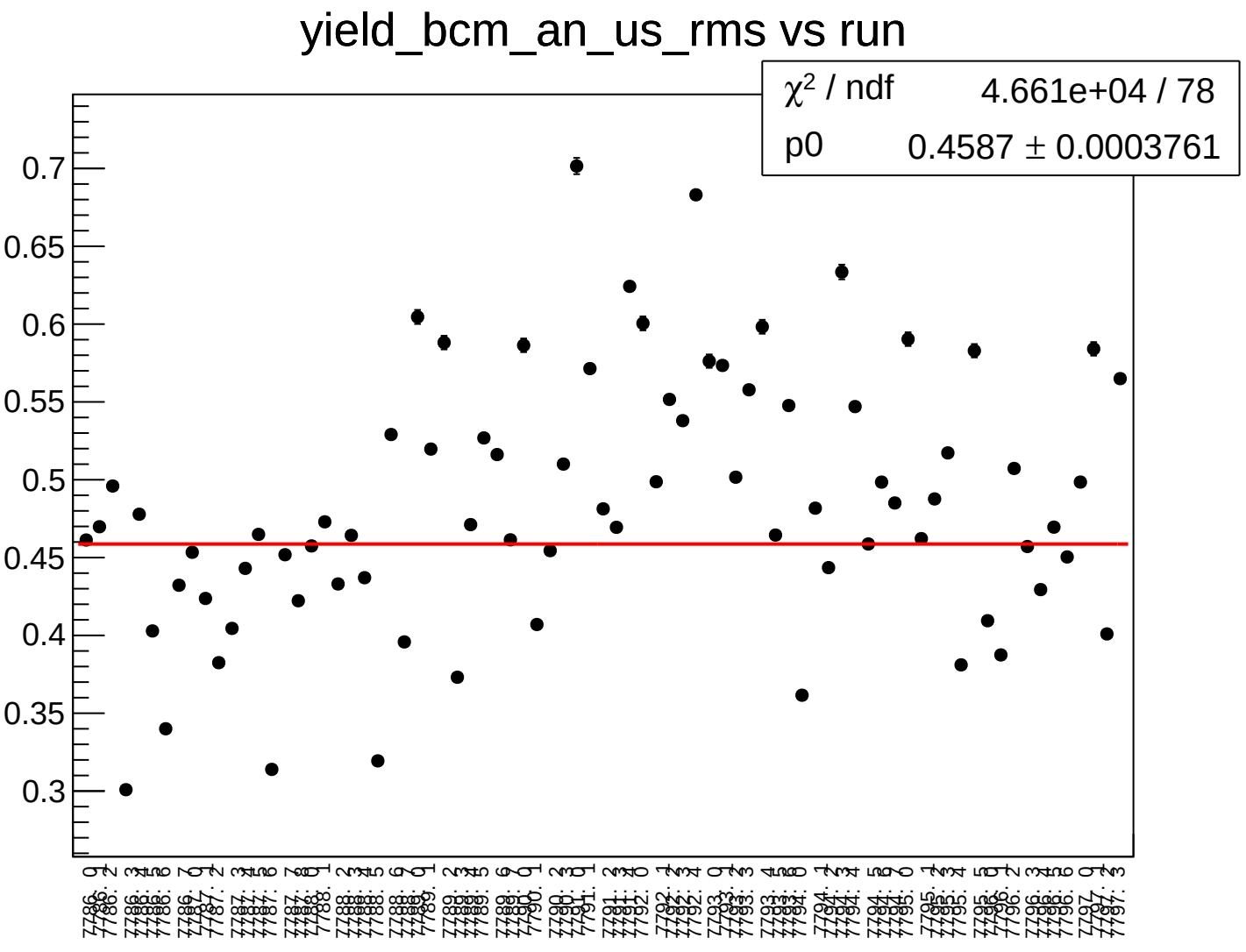

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.946e+05 / 78
p0 144.5 ± 0.0005347
145.2
145
144.8
144.6
144.4
144.2
144
143.8
pull
Entries 79
Mean −68.61
Std Dev 0
100
50
0
−50
−100
−150

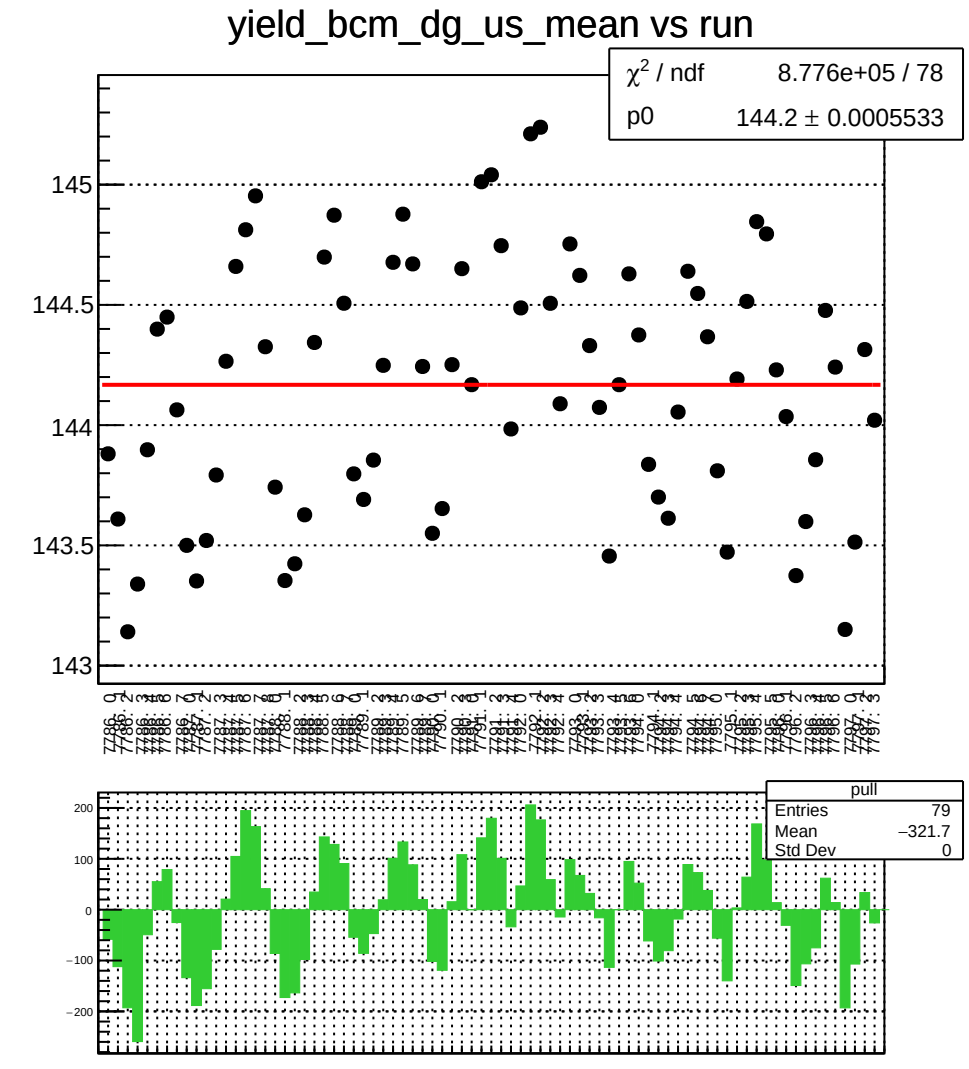

pull1D
Entries 79
Mean 1.604
Std Dev 4.947
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

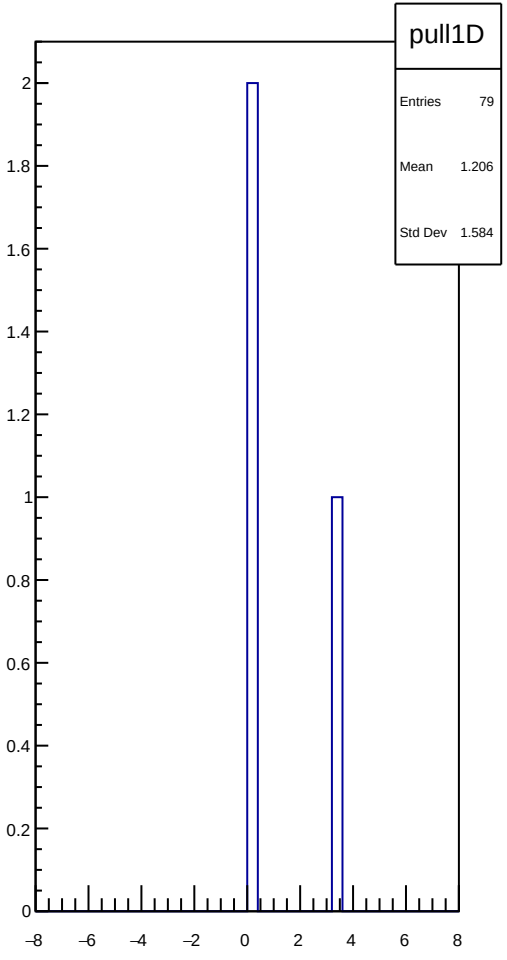

yield_bcm_an_ds3_rms vs run
χ² / ndf 4.756e+04 / 78
p0 0.4609 ± 0.0003781
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

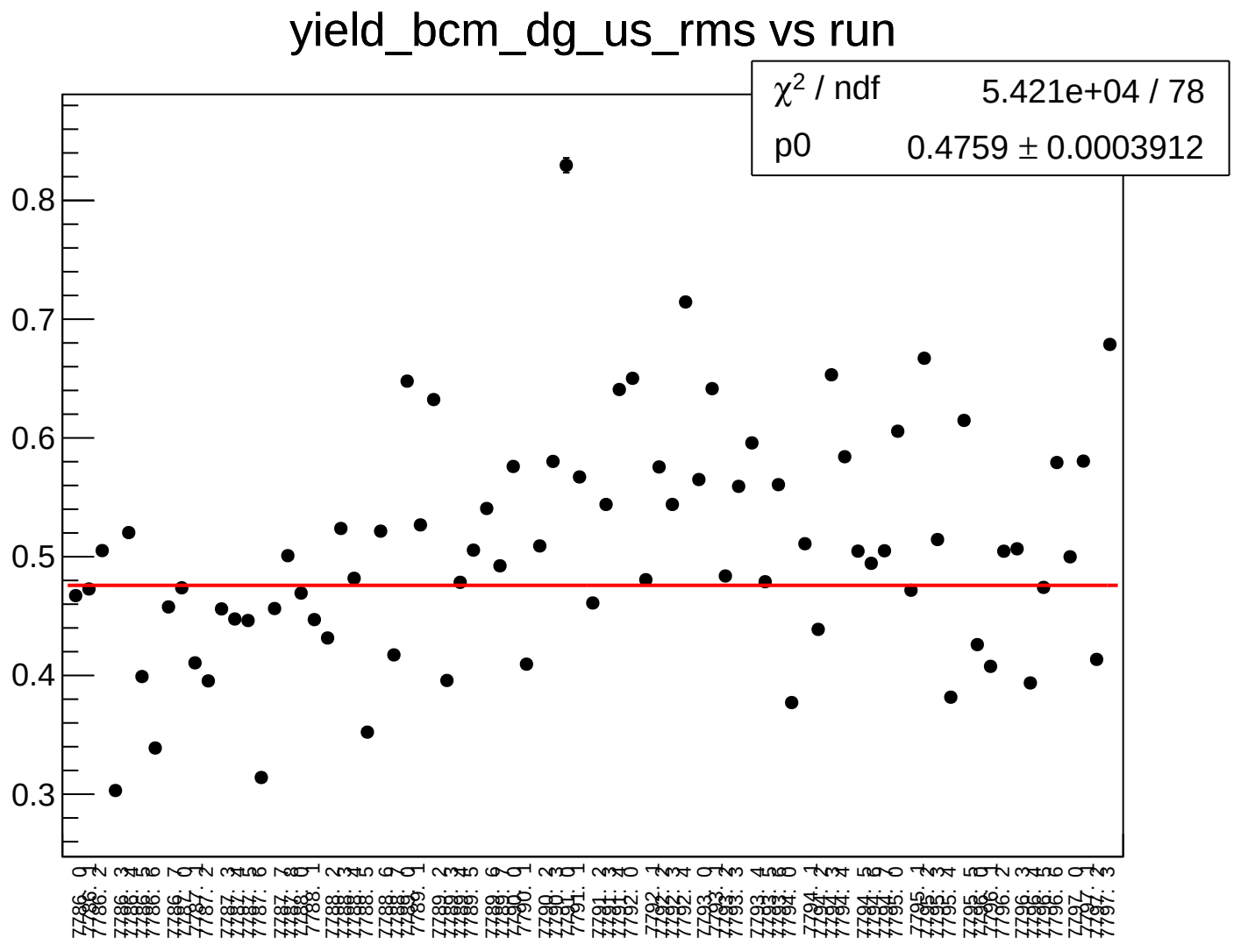

yield_bcm_an_us_mean vs run
χ² / ndf 2.089e+05 / 78
p0 144.3 ± 0.0005319
145
144.8
144.6
144.4
144.2
144
143.8
143.6
pull
Entries 79
Mean 29.02
Std Dev 0
100
50
0
−50
−100
−150

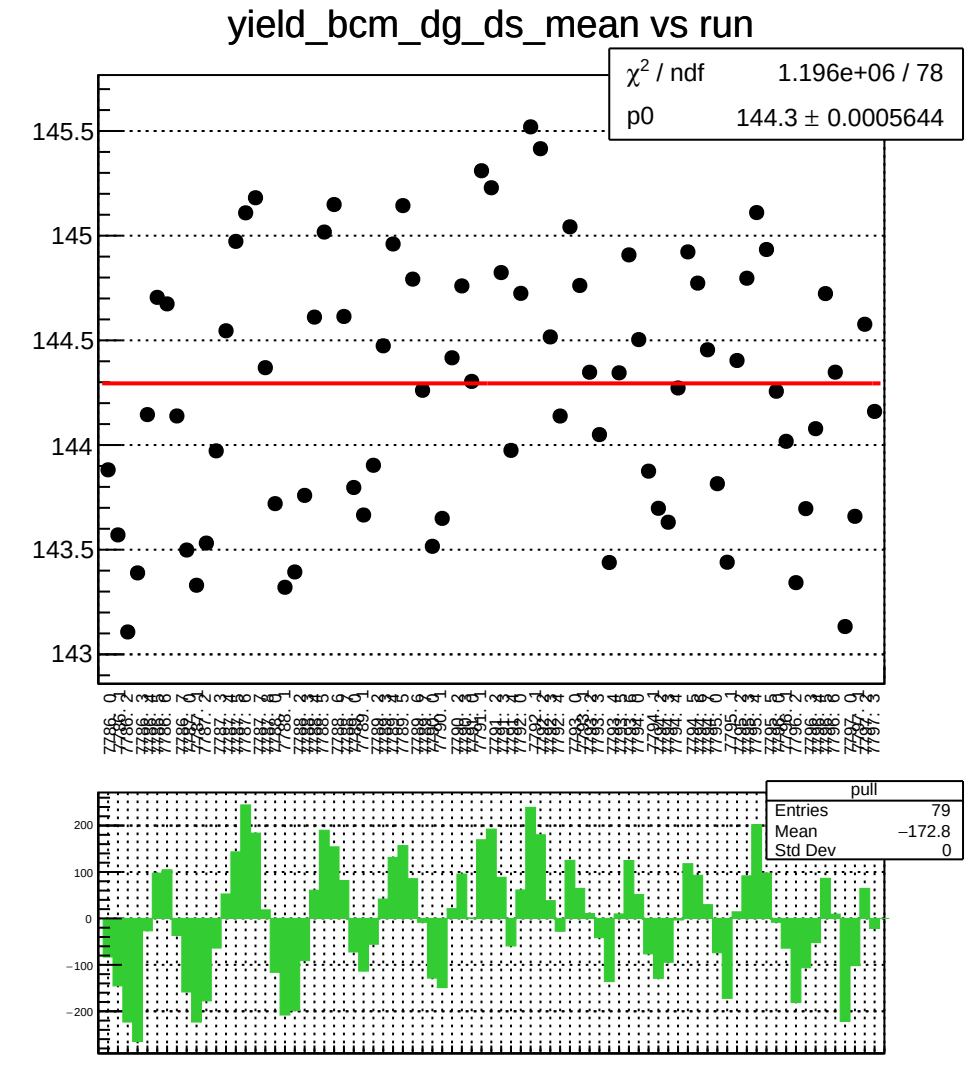

pull1D
Entries 79
Mean −0.6933
Std Dev 3.889
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

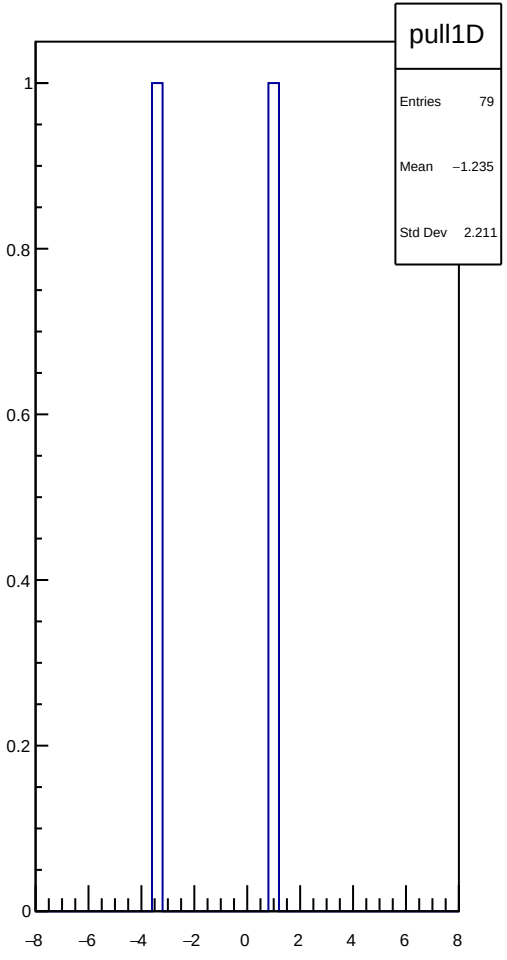

yield_bcm_an_us_rms vs run
χ² / ndf 4.661e+04 / 78
p0 0.4587 ± 0.0003761
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

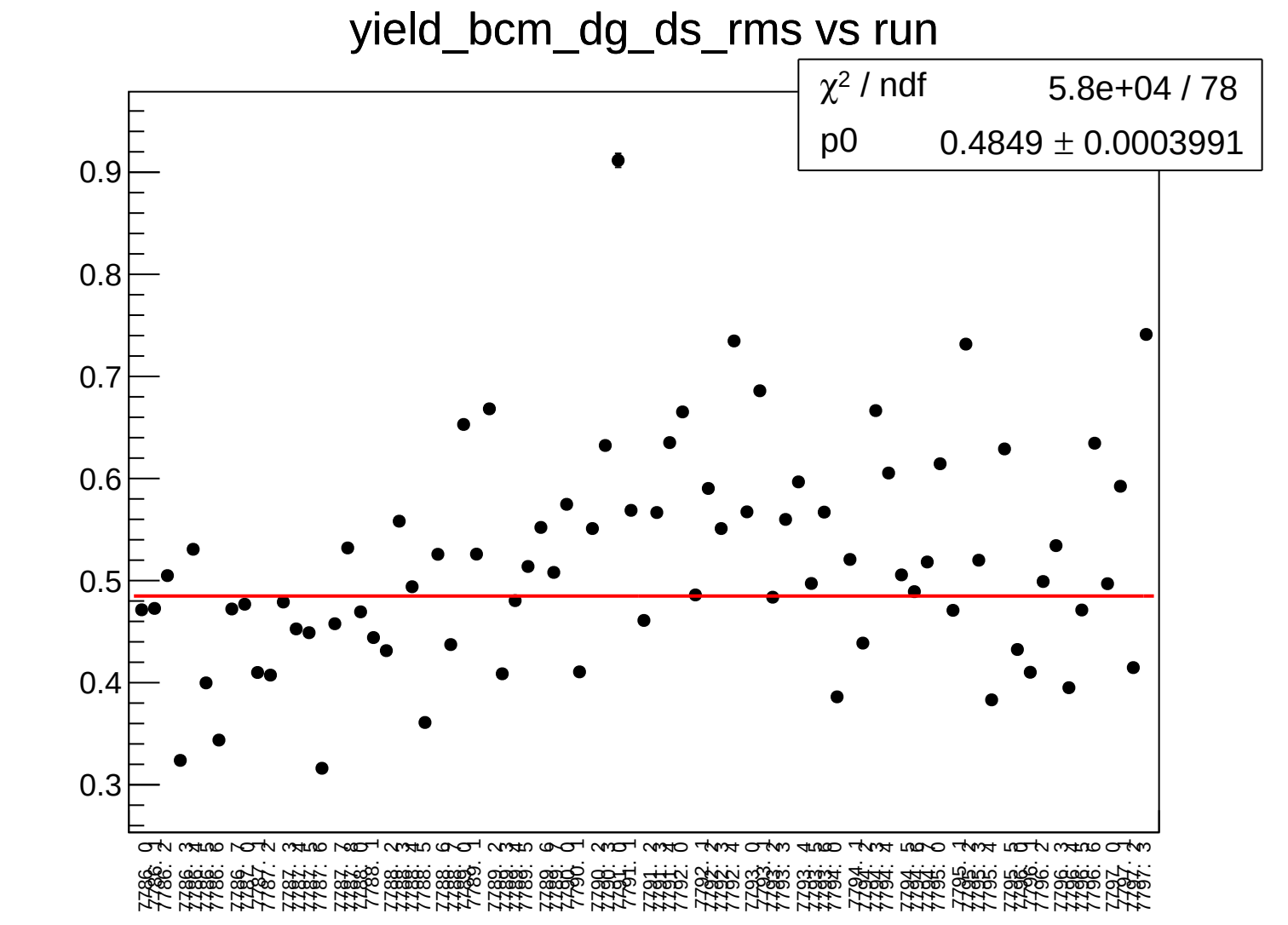

yield_bcm_dg_us_mean vs run
χ² / ndf 8.776e+05 / 78
p0 144.2 ± 0.0005533
145
144.5
144
143.5
143
pull
Entries 79
Mean −321.7
Std Dev 0
200
100
0
−100
−200

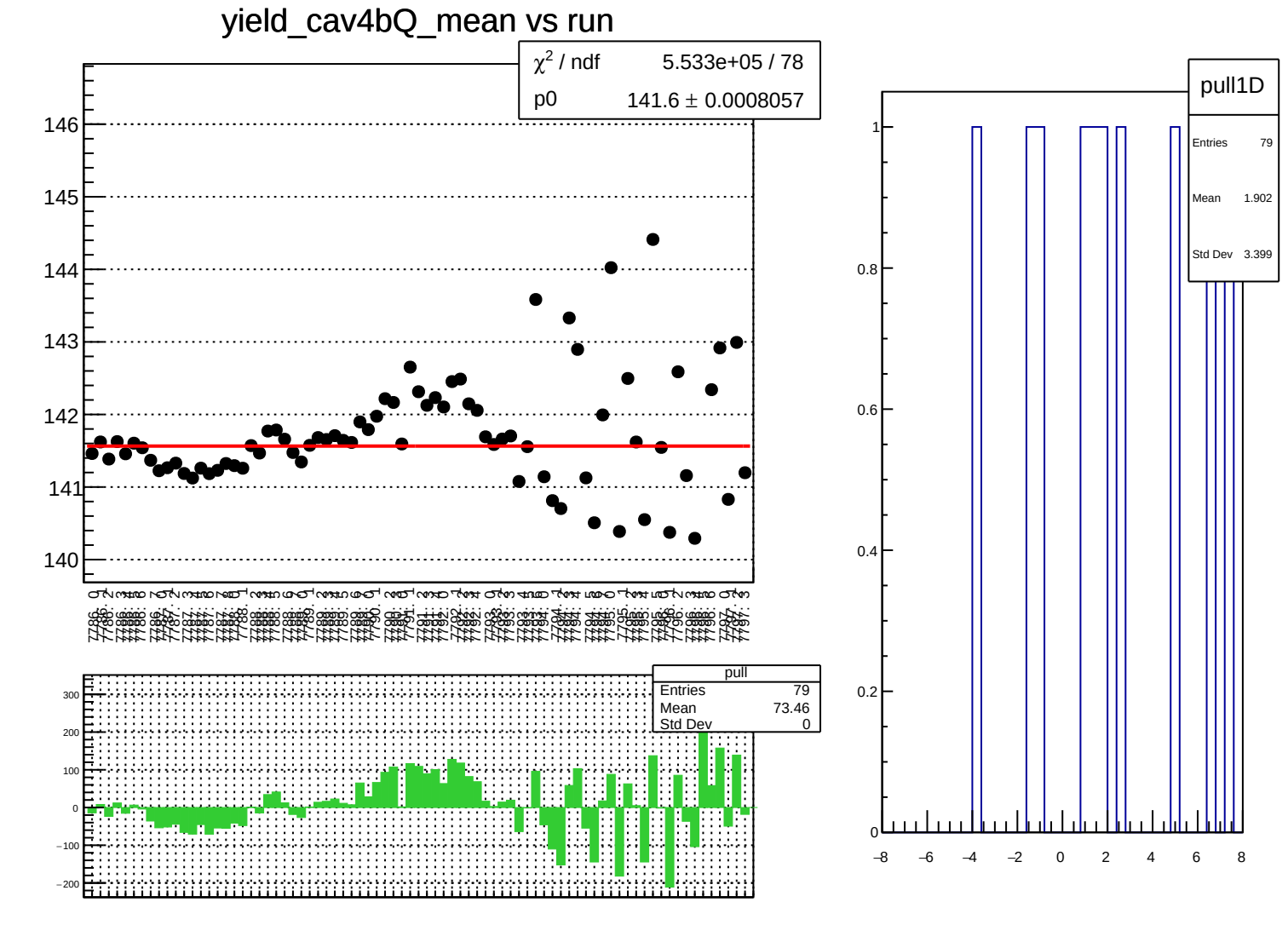

pull1D
Entries 79
Mean 1.206
Std Dev 1.584
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

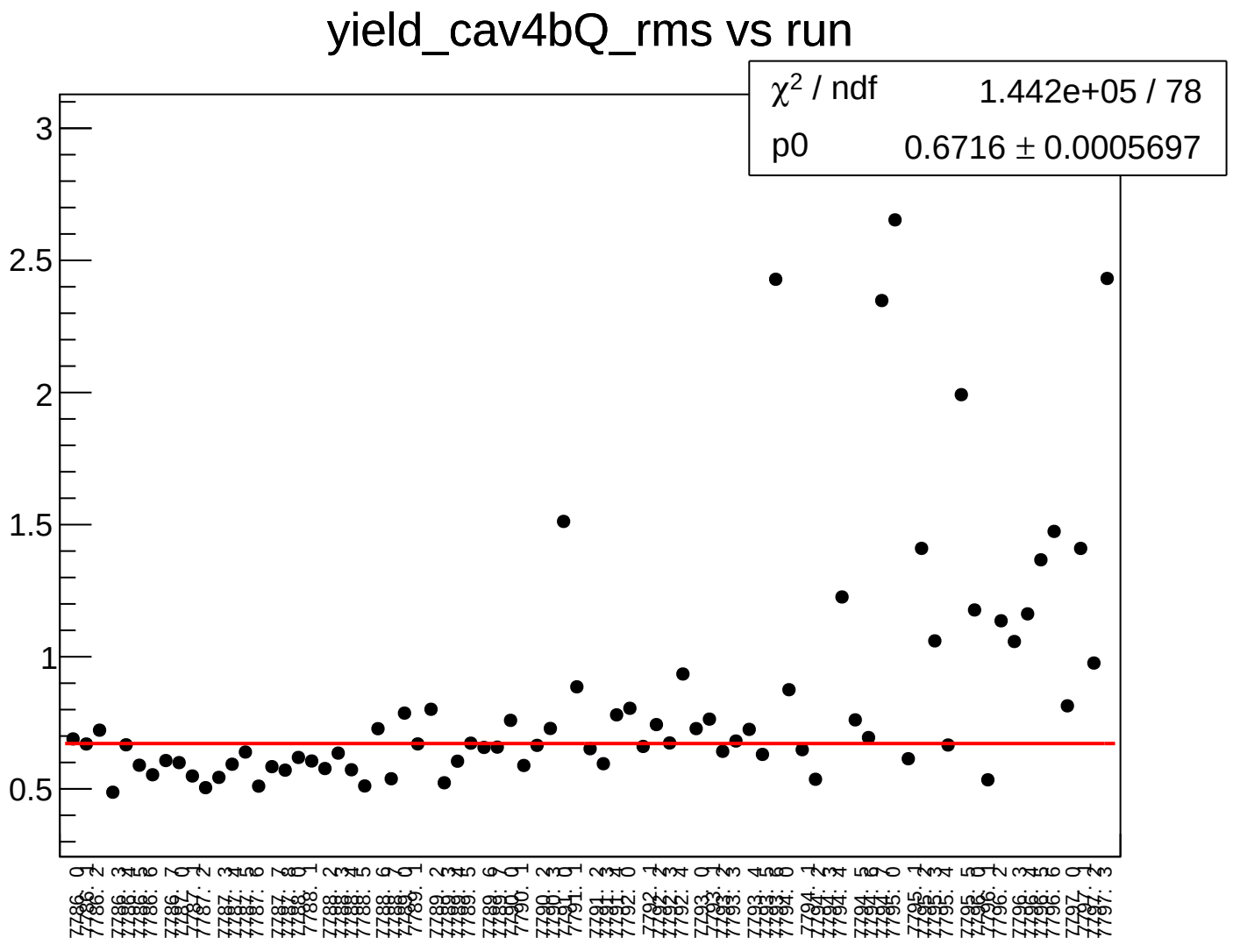

yield_bcm_dg_us_rms vs run
χ² / ndf 5.421e+04 / 78
p0 0.4759 ± 0.0003912
0.8
0.7
0.6
0.5
0.4
0.3

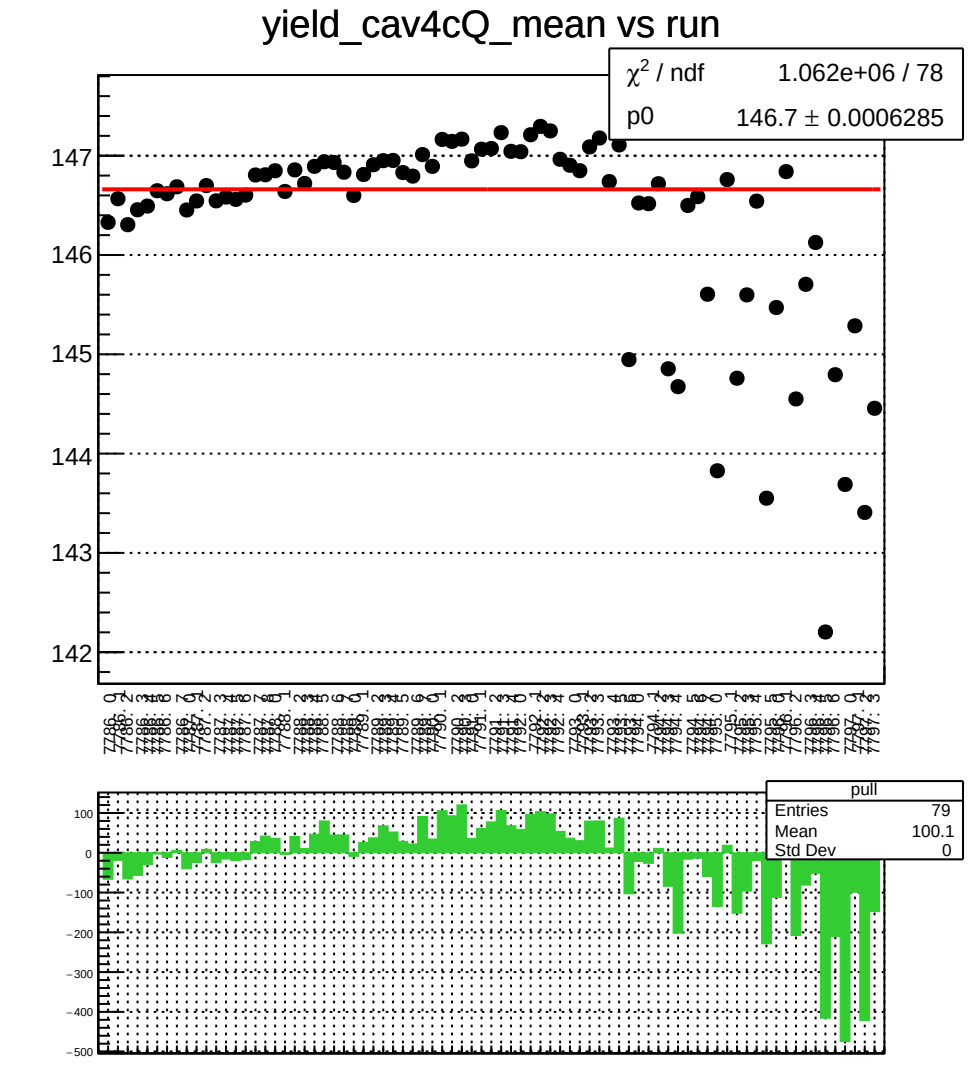

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.196e+06 / 78
p0 144.3 ± 0.0005644
145.5
145
144.5
144
143.5
143
pull
Entries 79
Mean −172.8
Std Dev 0
200
100
0
−100
−200

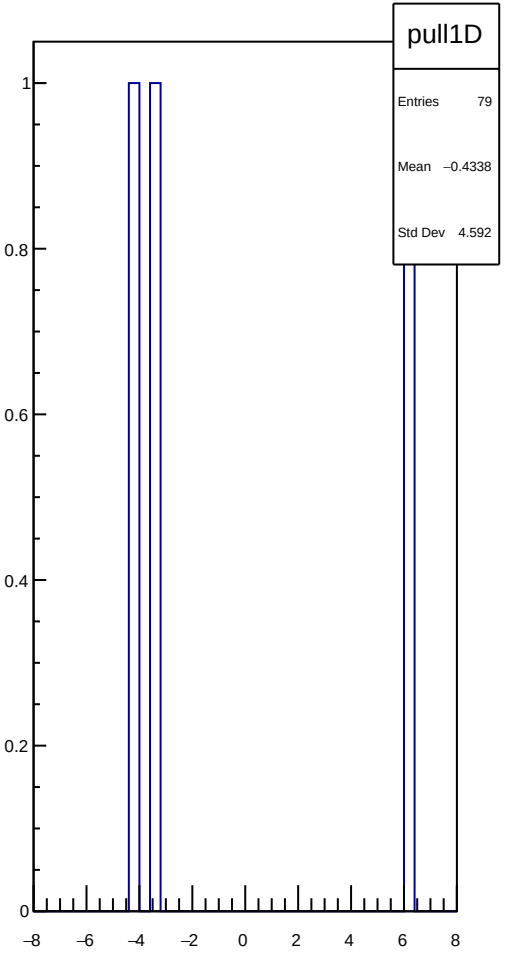

pull1D
Entries 79
Mean −1.235
Std Dev 2.211
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

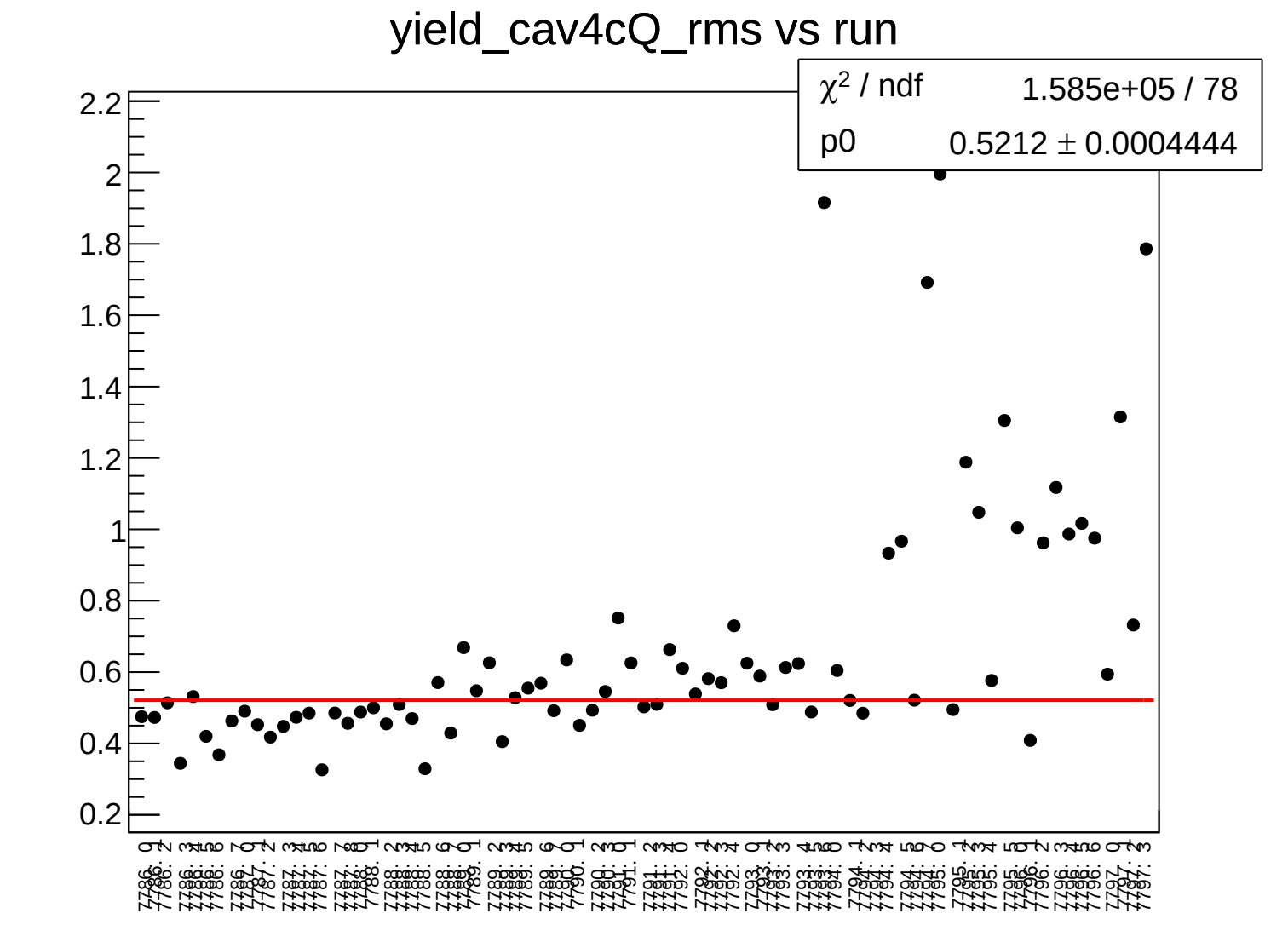

yield_bcm_dg_ds_rms vs run
χ² / ndf 5.8e+04 / 78
p0 0.4849 ± 0.0003991
0.9
0.8
0.7
0.6
0.5
0.4
0.3

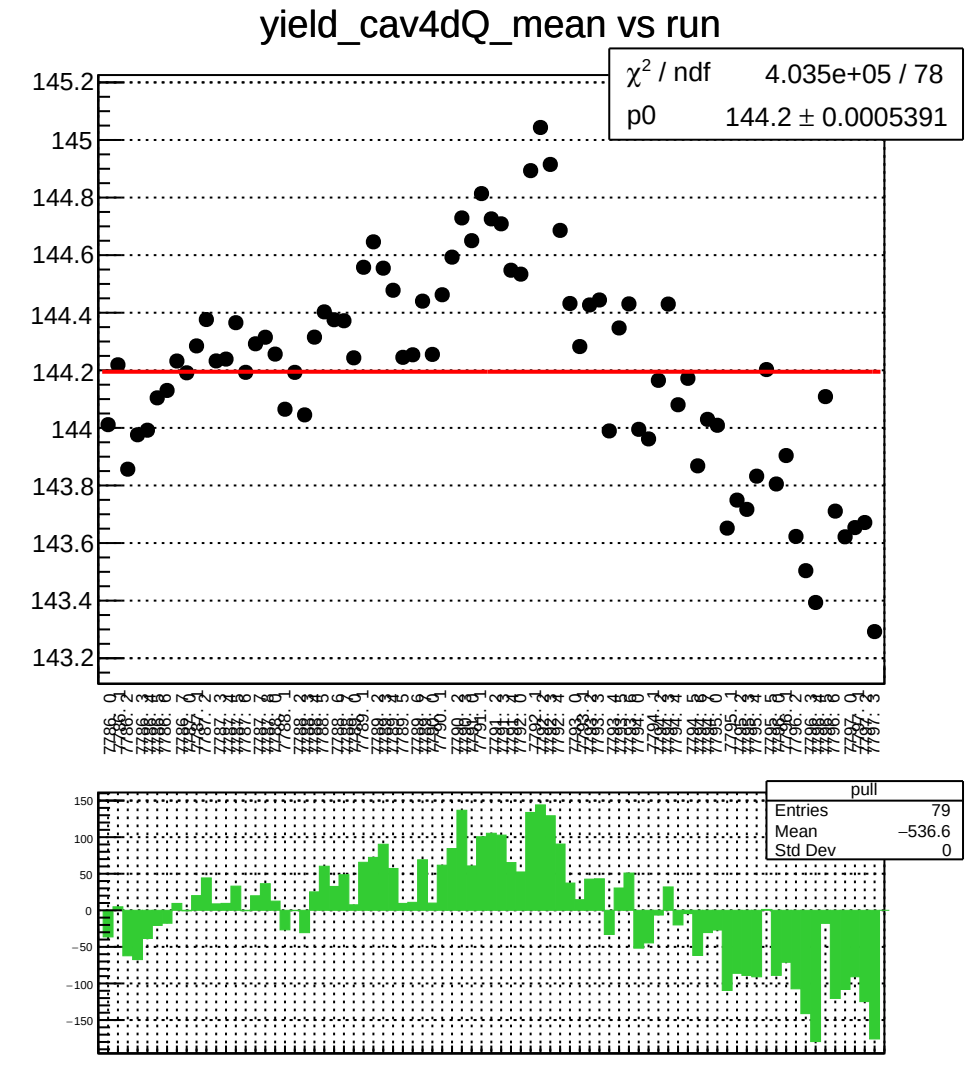

yield_cav4bQ_mean vs run
χ² / ndf 5.533e+05 / 78
p0 141.6 ± 0.0008057
146
145
144
143
142
141
140
pull
Entries 79
Mean 73.46
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 79
Mean 1.902
Std Dev 3.399
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

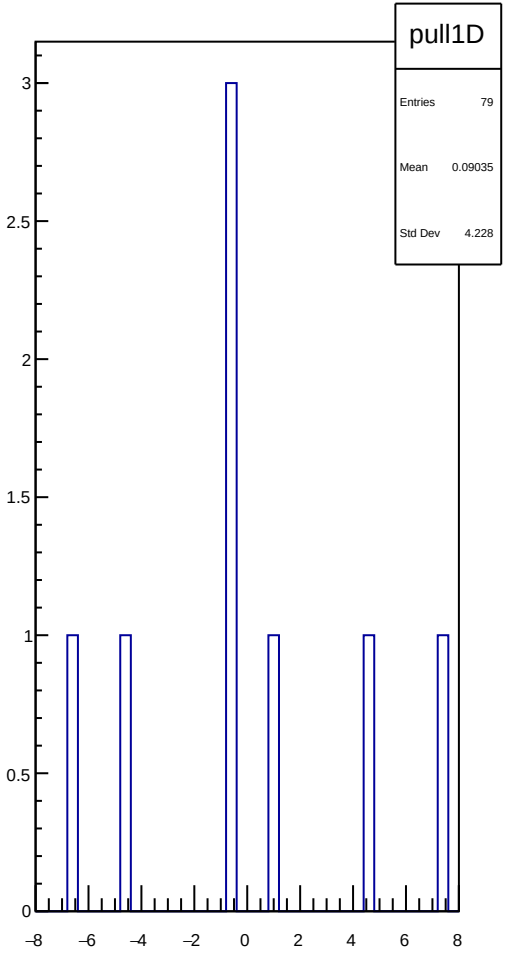

yield_cav4bQ_rms vs run
χ² / ndf 1.442e+05 / 78
p0 0.6716 ± 0.0005697
3
2.5
2
1.5
1
0.5

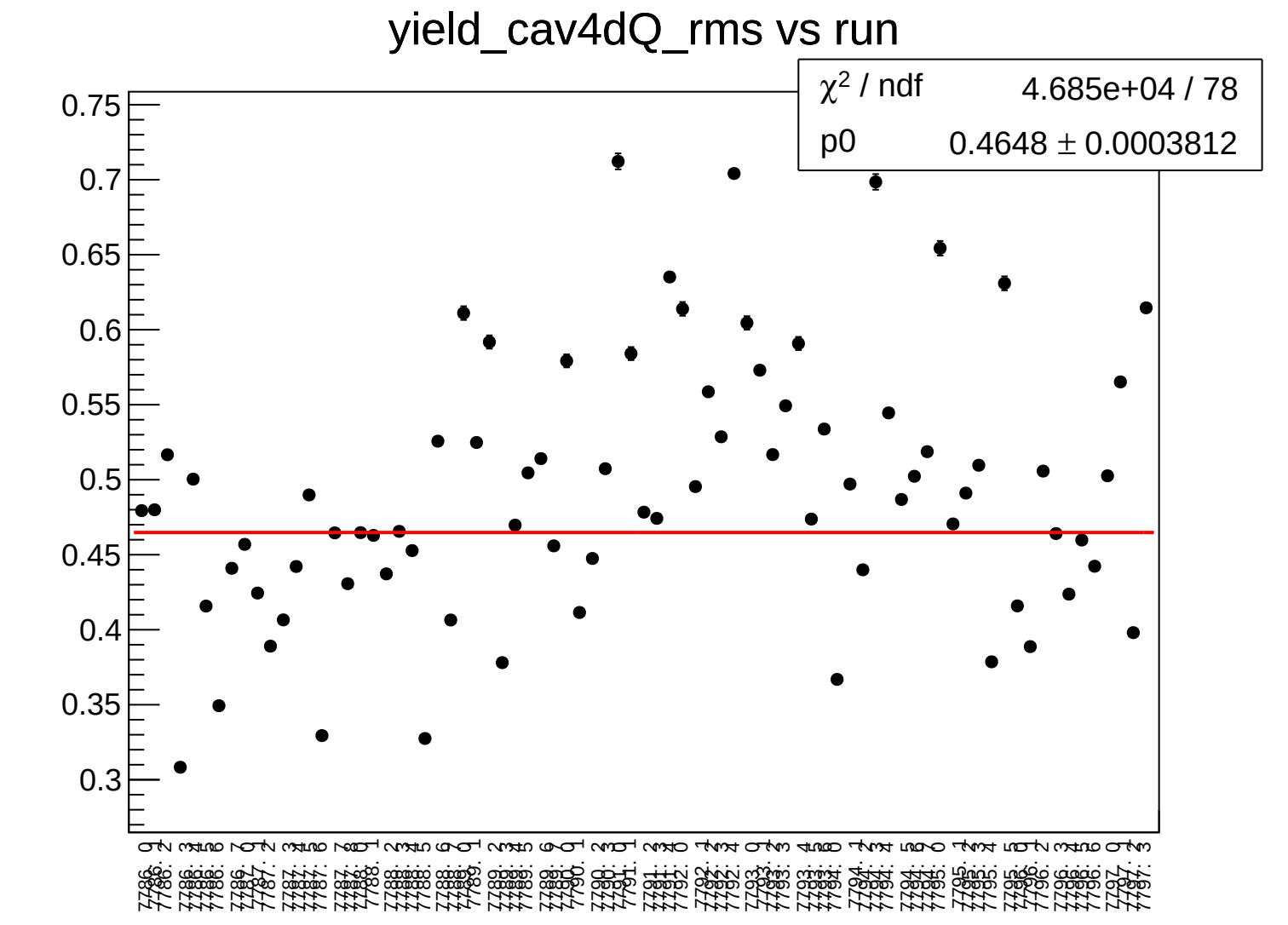

yield_cav4cQ_mean vs run
χ² / ndf 1.062e+06 / 78
p0 146.7 ± 0.0006285
147
146
145
144
143
142
pull
Entries 79
Mean 100.1
Std Dev 0
100
0
−100
−200
−300
−400
−500

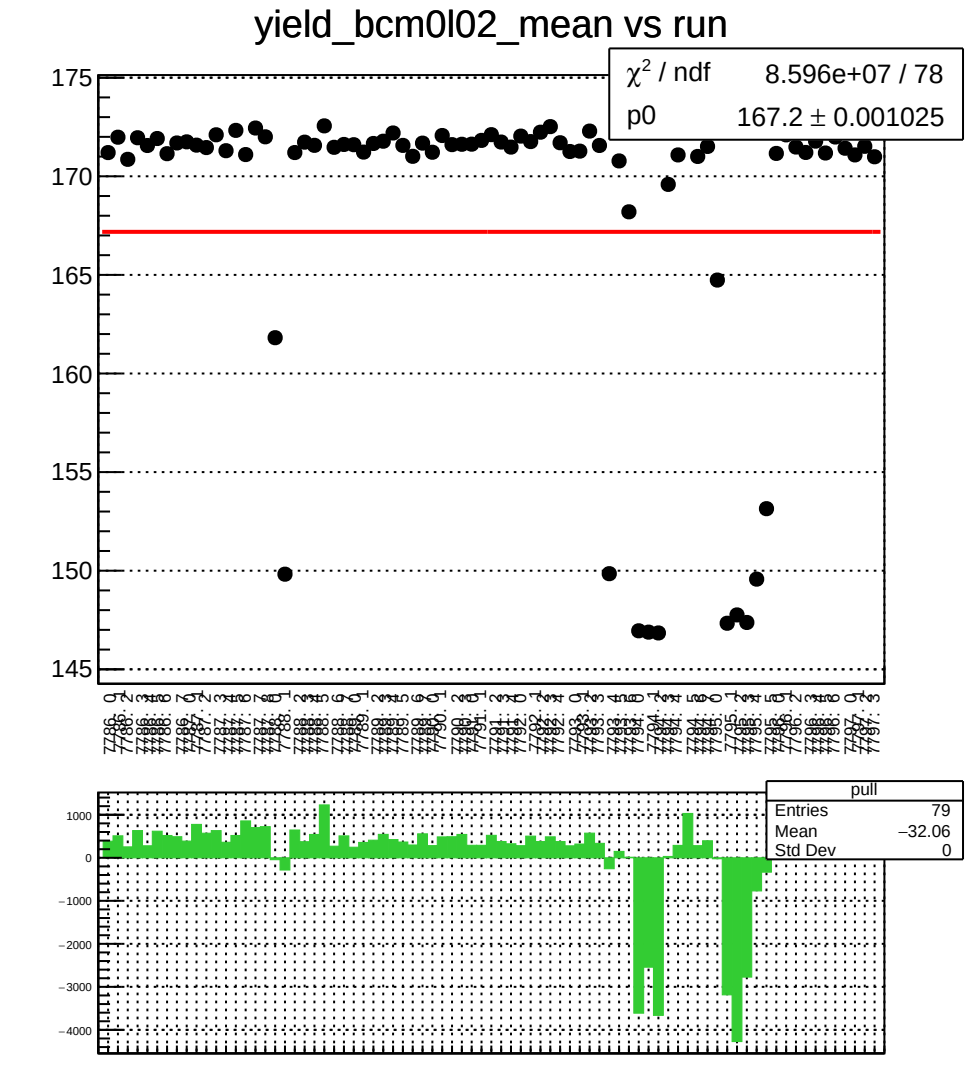

pull1D
Entries 79
Mean −0.4338
Std Dev 4.592
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

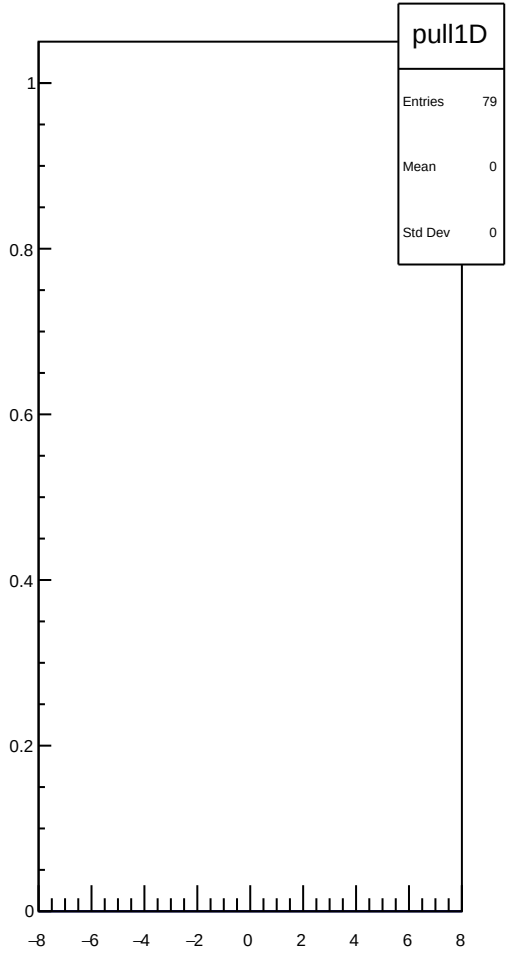

yield_cav4cQ_rms vs run
χ² / ndf 1.585e+05 / 78
p0 0.5212 ± 0.0004444
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

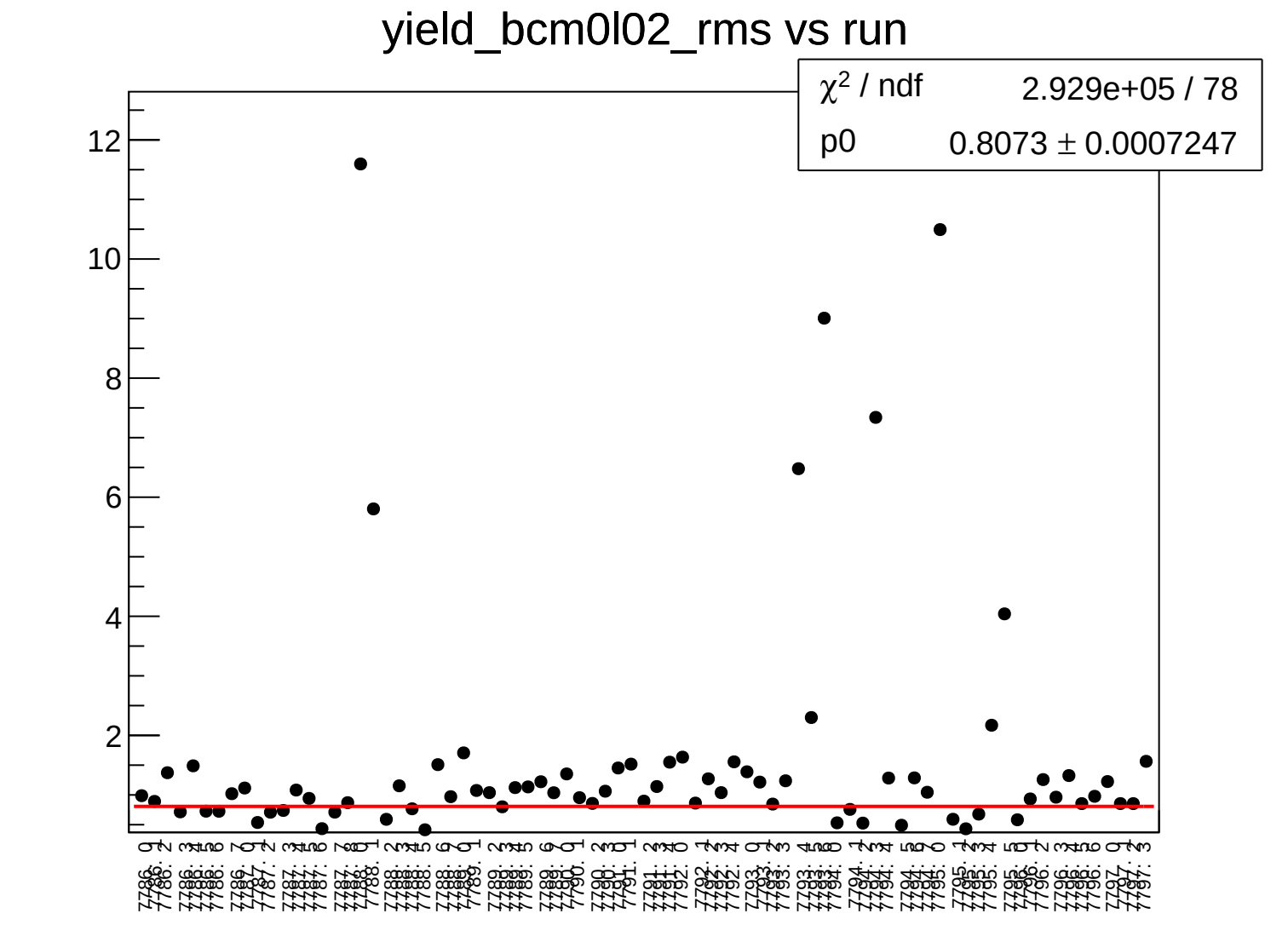

yield_cav4dQ_mean vs run
χ² / ndf 4.035e+05 / 78
p0 144.2 ± 0.0005391
145.2
145
144.8
144.6
144.4
144.2
144
143.8
143.6
143.4
143.2
pull
Entries 79
Mean −536.6
Std Dev 0
150
100
50
0
−50
−100
−150

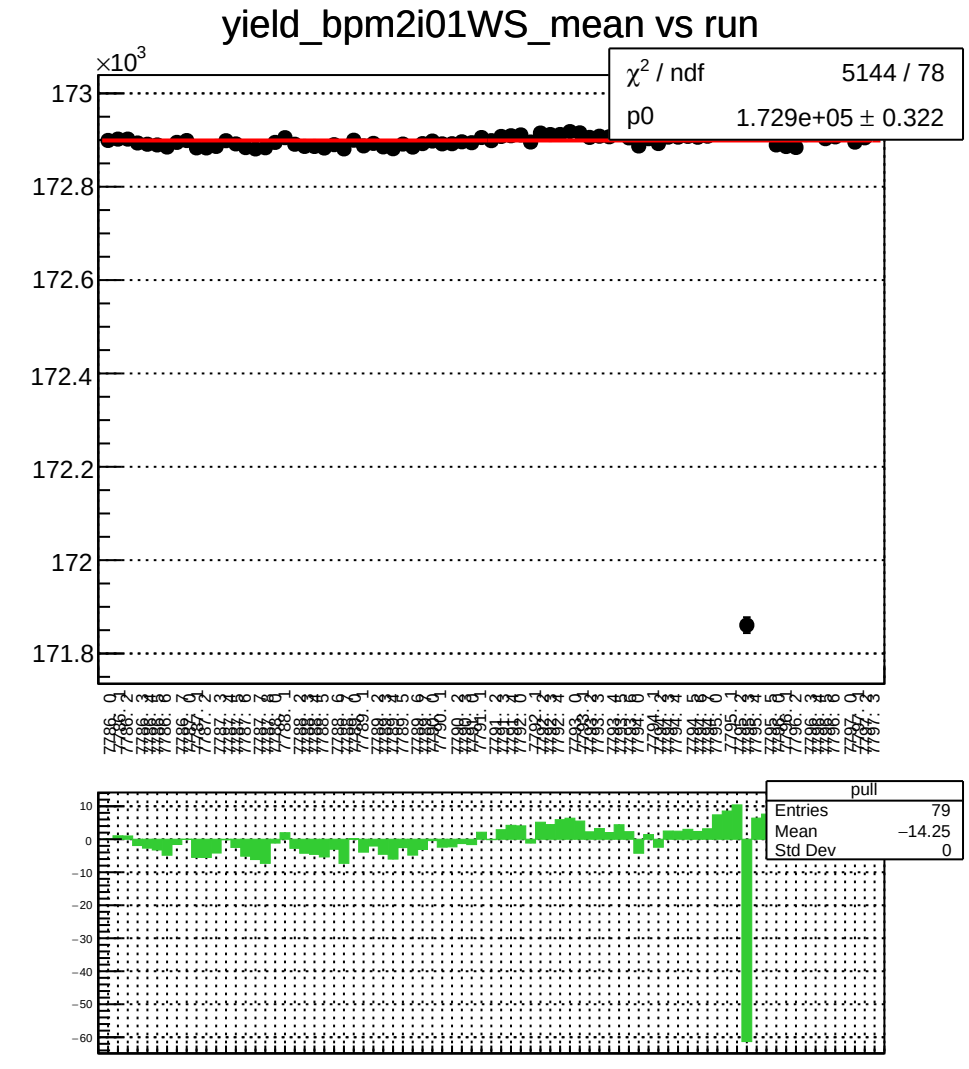

pull1D
Entries 79
Mean 0.09035
Std Dev 4.228
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

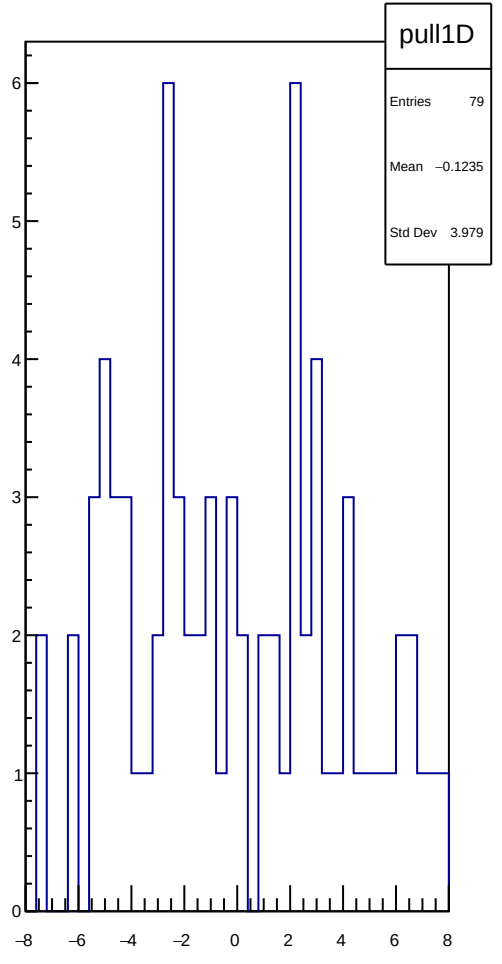

yield_cav4dQ_rms vs run
χ² / ndf 4.685e+04 / 78
p0 0.4648 ± 0.0003812
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

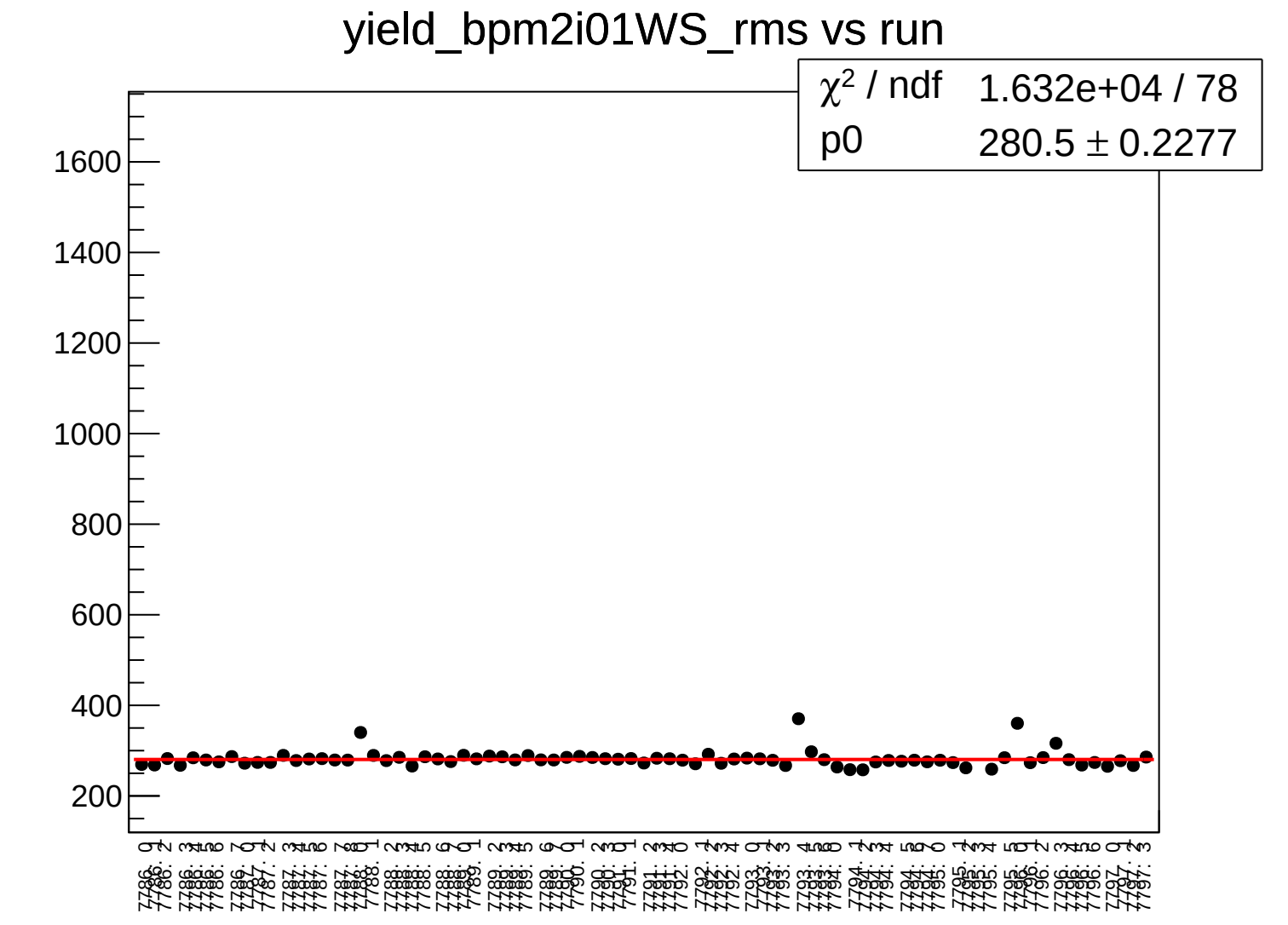

yield_bcm0l02_mean vs run
χ² / ndf 8.596e+07 / 78
p0 167.2 ± 0.001025
175
170
165
160
155
150
145
pull
Entries 79
Mean −32.06
Std Dev 0
1000
0
−1000
−2000
−3000
−4000

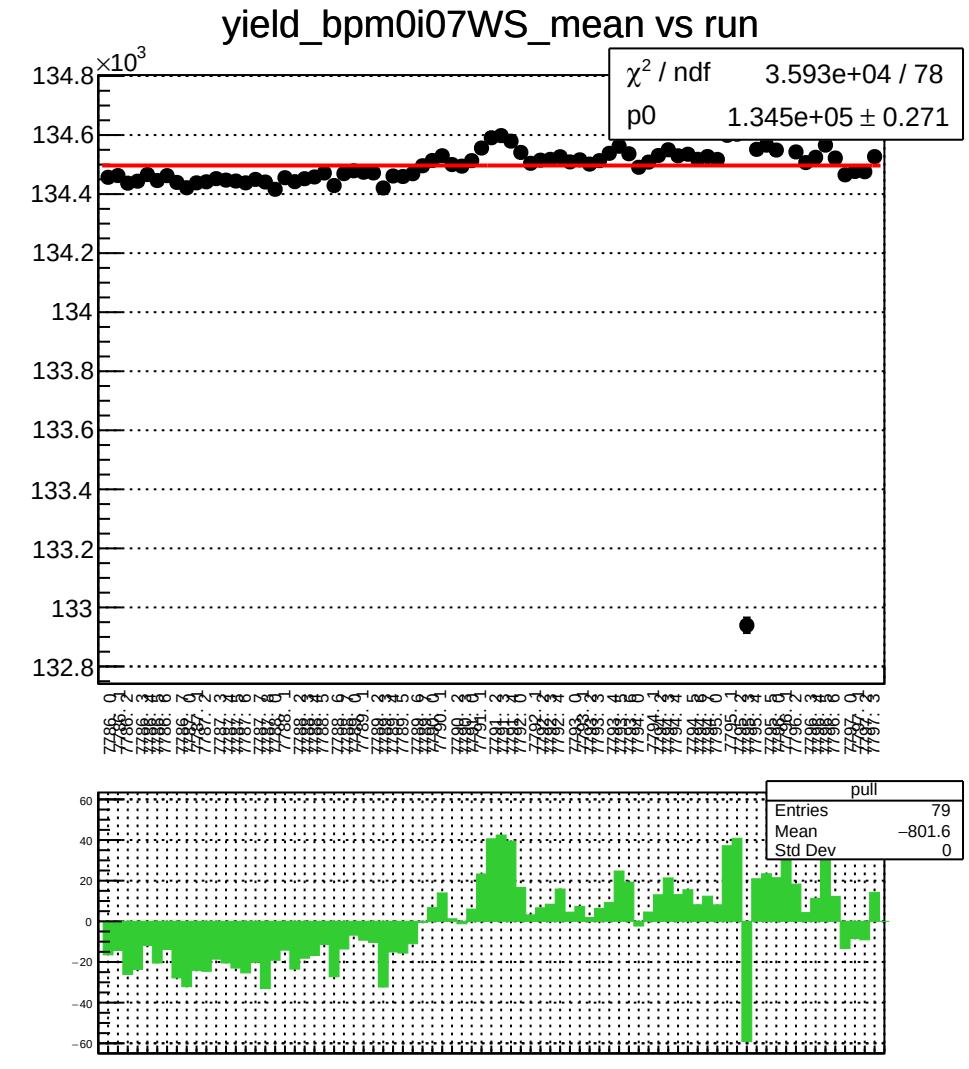

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

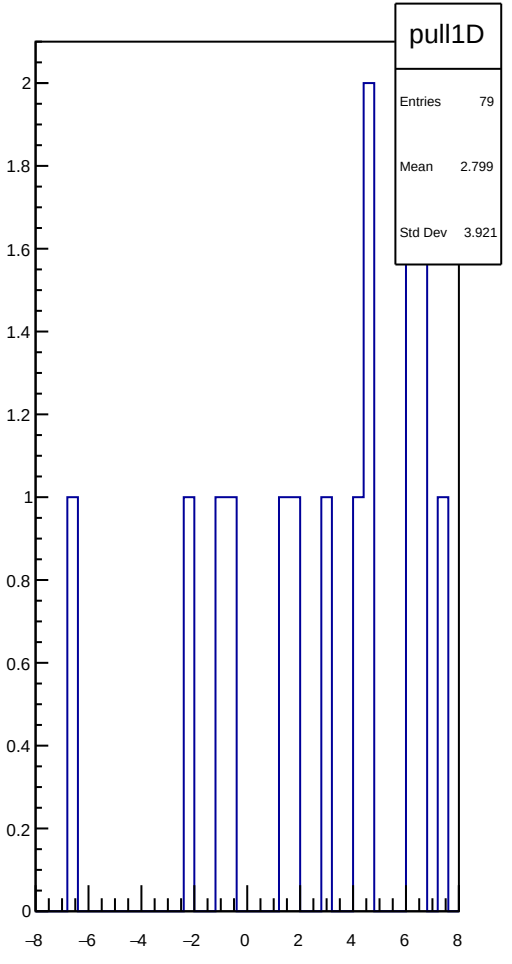

yield_bcm0l02_rms vs run
χ² / ndf 2.929e+05 / 78
p0 0.8073 ± 0.0007247
12
10
8
6
4
2

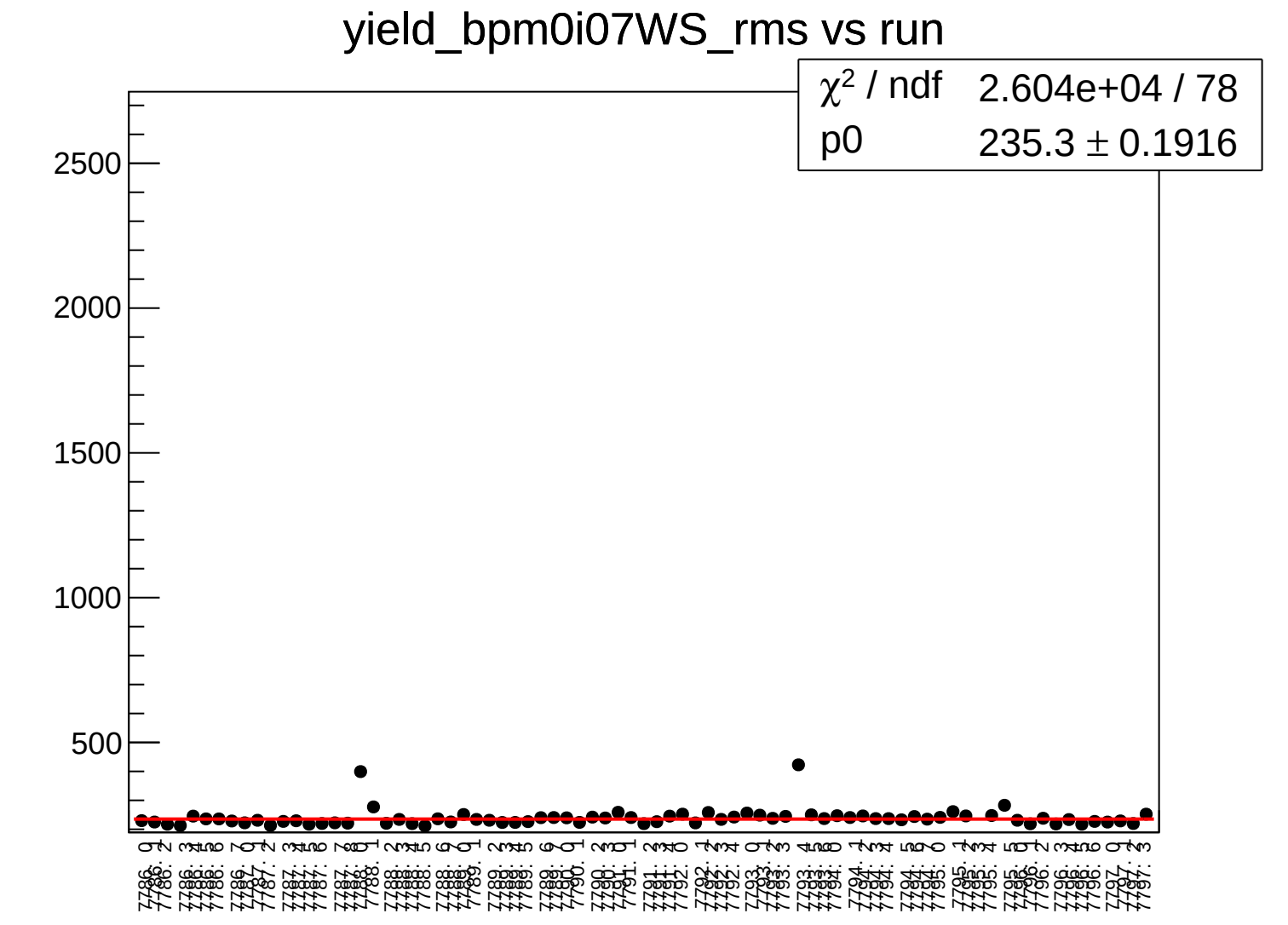

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5144 / 78
p0 1.729e+05 ± 0.322
pull
Entries 79
Mean −14.25
Std Dev 0

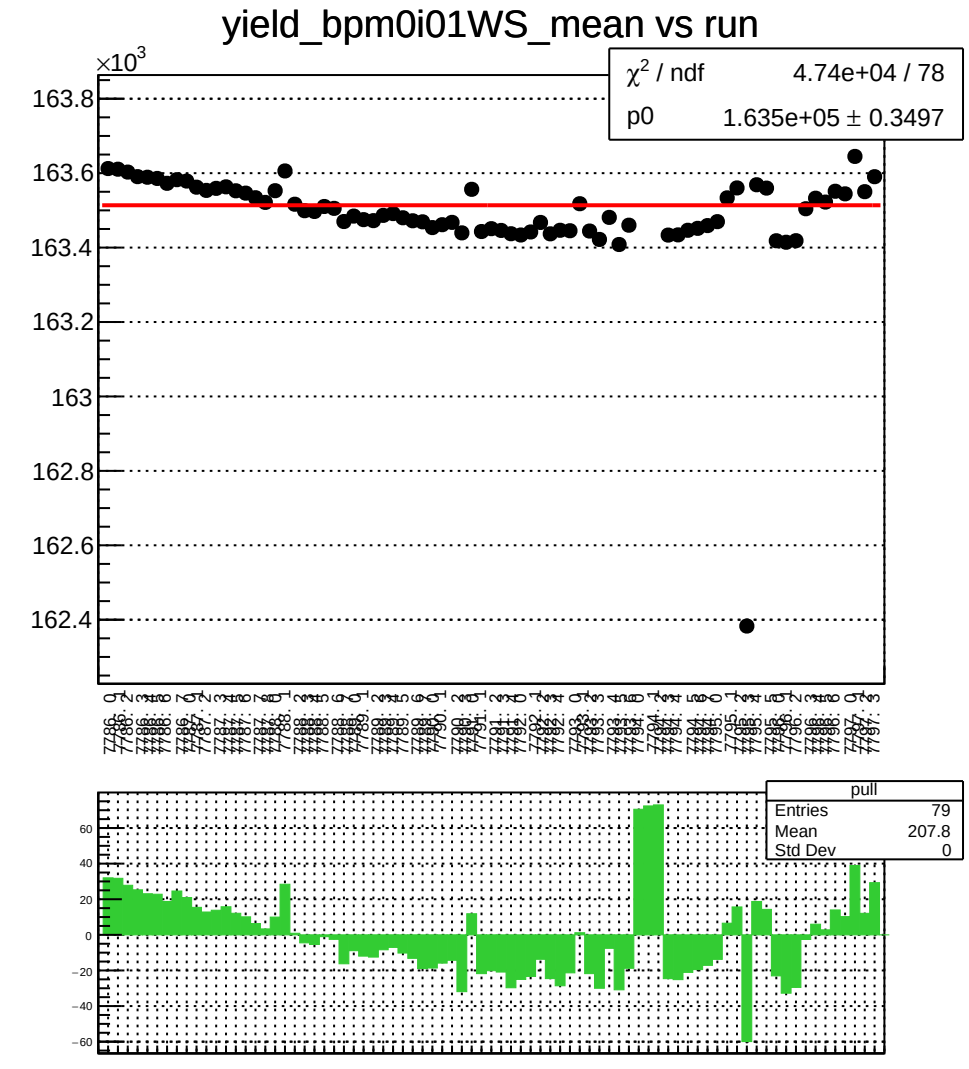

pull1D
Entries 79
Mean −0.1235
Std Dev 3.979

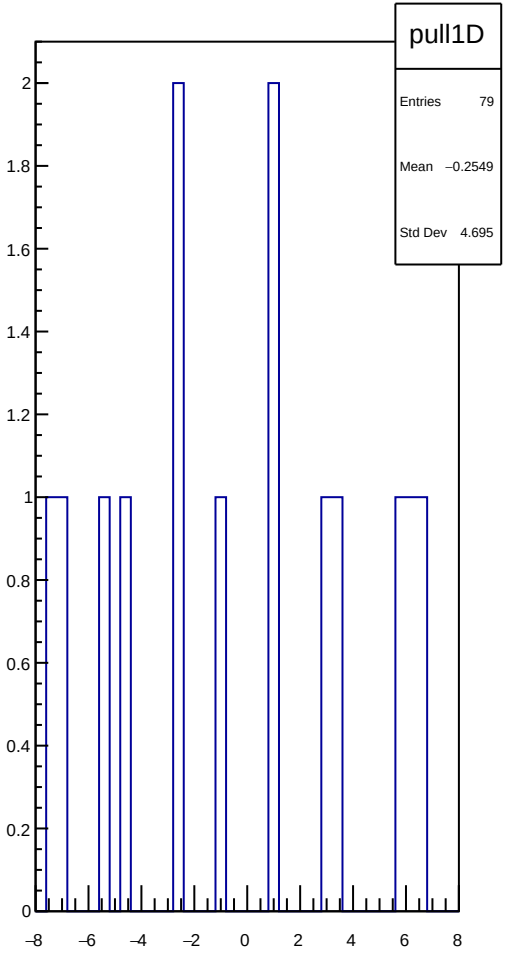

yield_bpm2i01WS_rms vs run
χ² / ndf 1.632e+04 / 78
p0 280.5 ± 0.2277
1600
1400
1200
1000
800
600
400
200

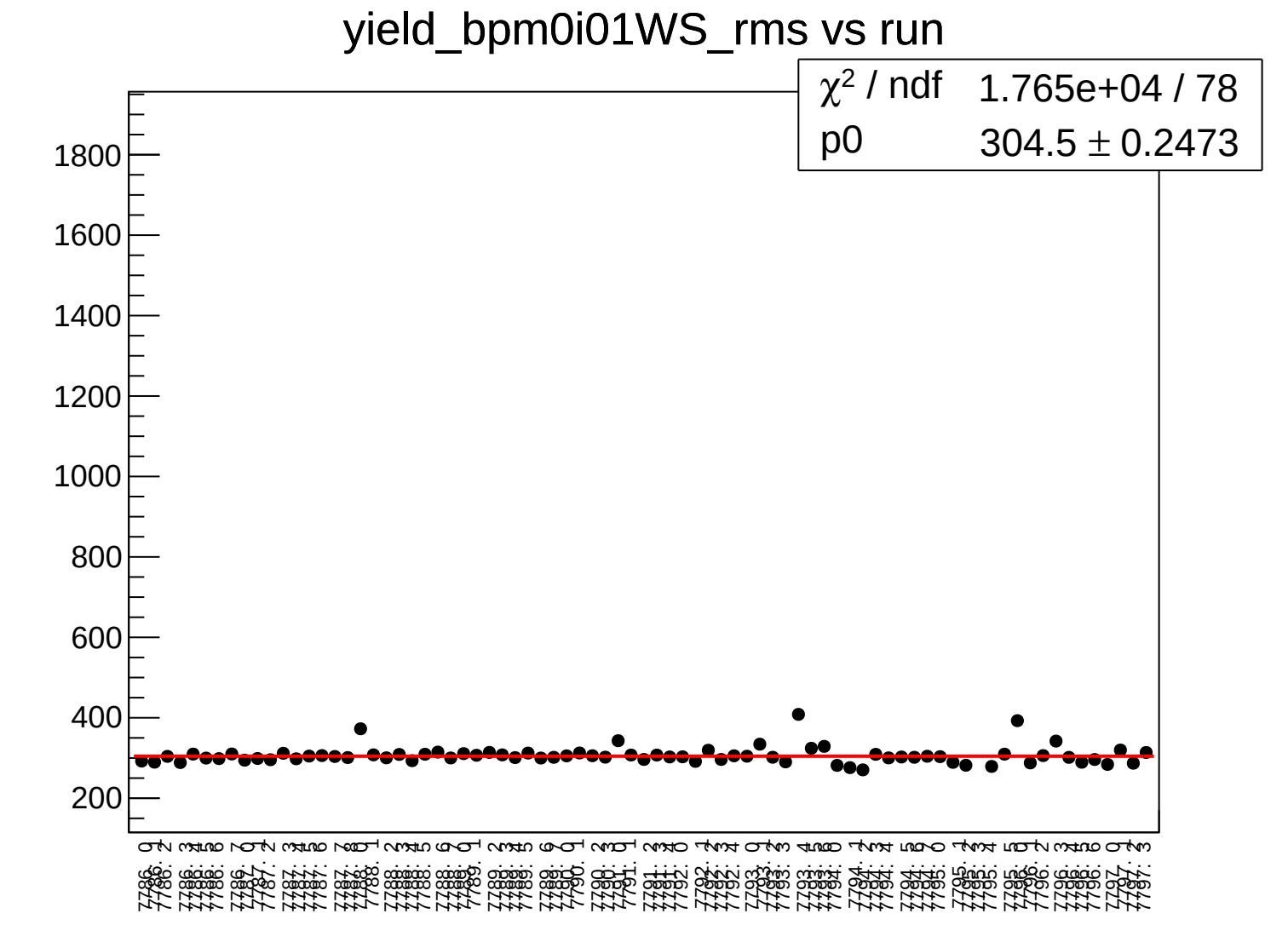

yield_bpm0i07WS_mean vs run
χ² / ndf 3.593e+04 / 78
p0 1.345e+05 ± 0.271
×10³
134.8
134.6
134.4
134.2
134
133.8
133.6
133.4
133.2
133
132.8
pull
Entries 79
Mean −801.6
Std Dev 0
60
40
20
0
−20
−40
−60

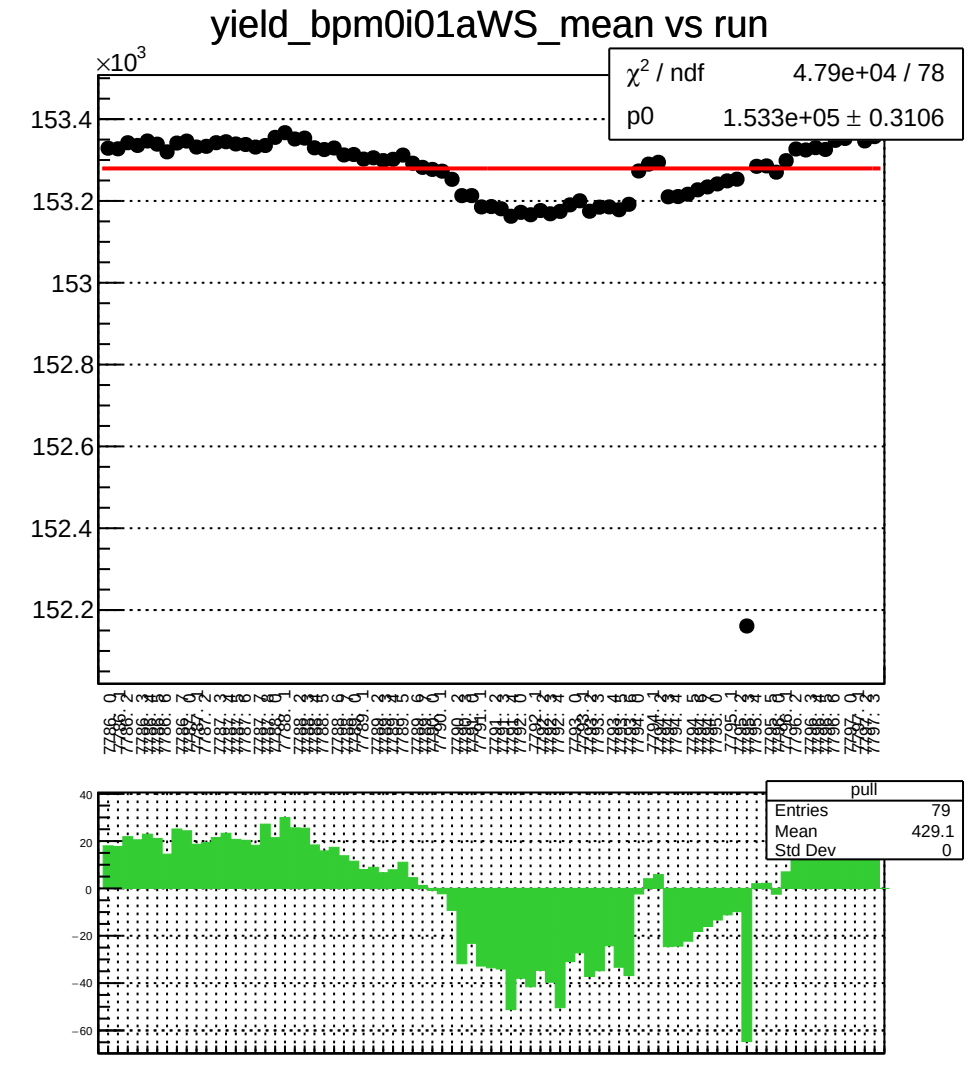

pull1D
Entries 79
Mean 2.799
Std Dev 3.921
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

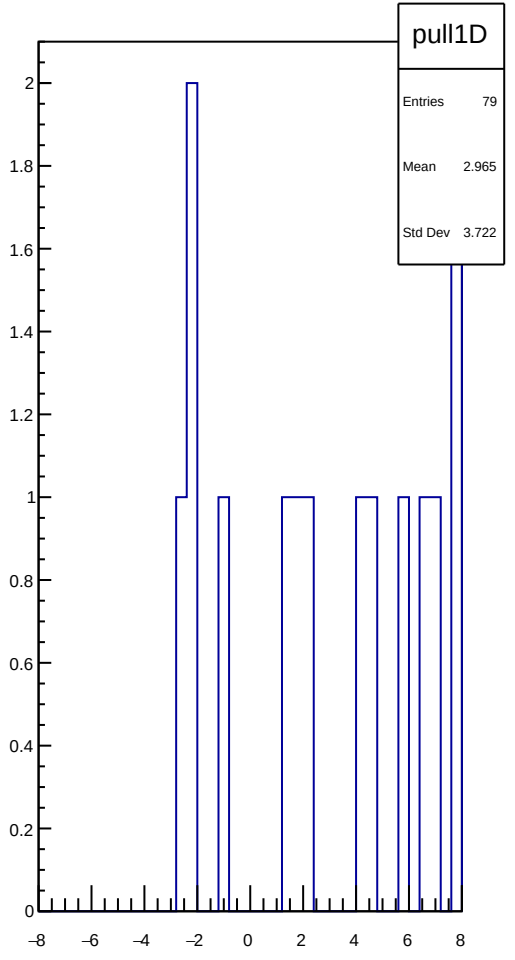

yield_bpm0i07WS_rms vs run
χ^2 / ndf 2.604e+04 / 78
p0 235.3 ± 0.1916
2500
2000
1500
1000
500

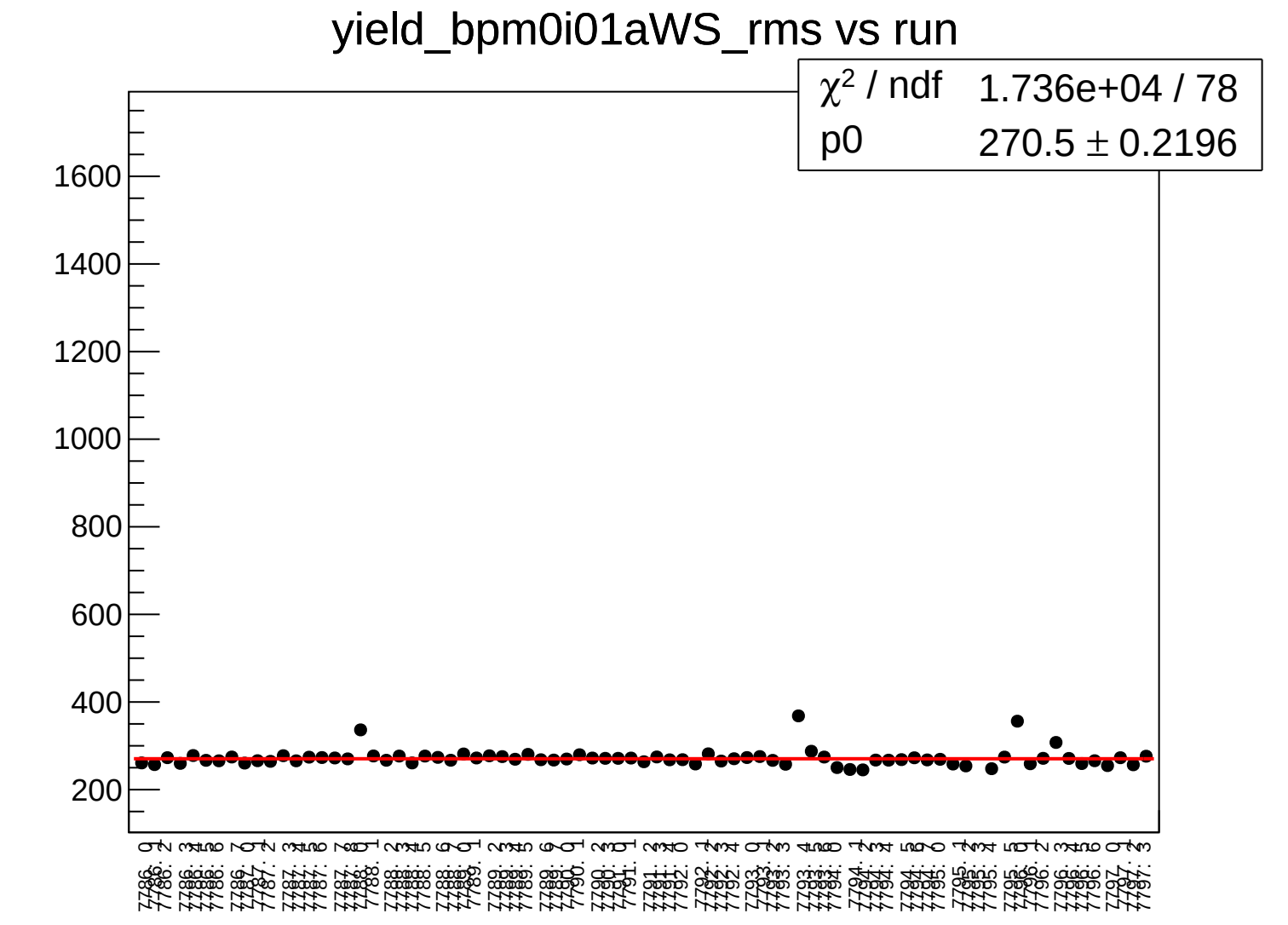

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 4.74e+04 / 78
p0 1.635e+05 ± 0.3497
163.8
163.6
163.4
163.2
163
162.8
162.6
162.4
pull
Entries 79
Mean 207.8
Std Dev 0
60
40
20
0
−20
−40
−60

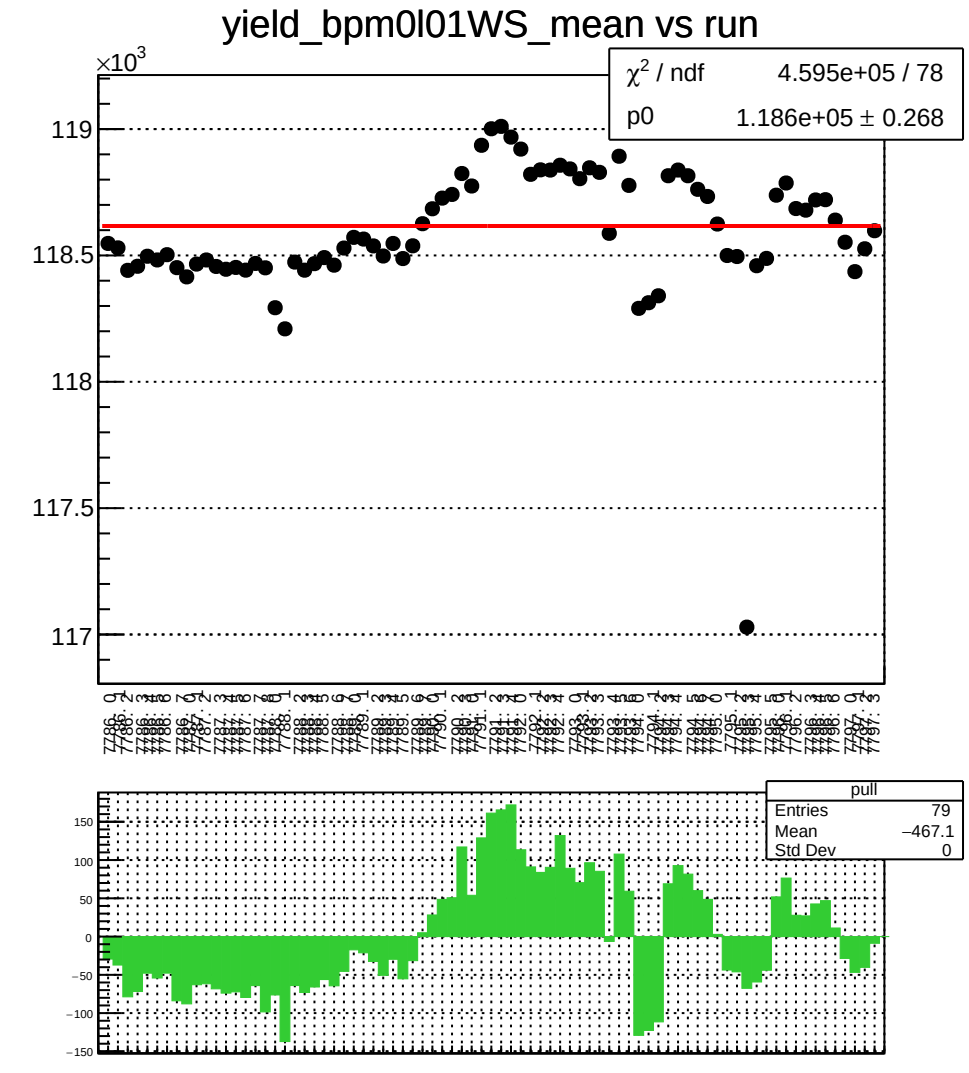

pull1D
Entries 79
Mean −0.2549
Std Dev 4.695
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

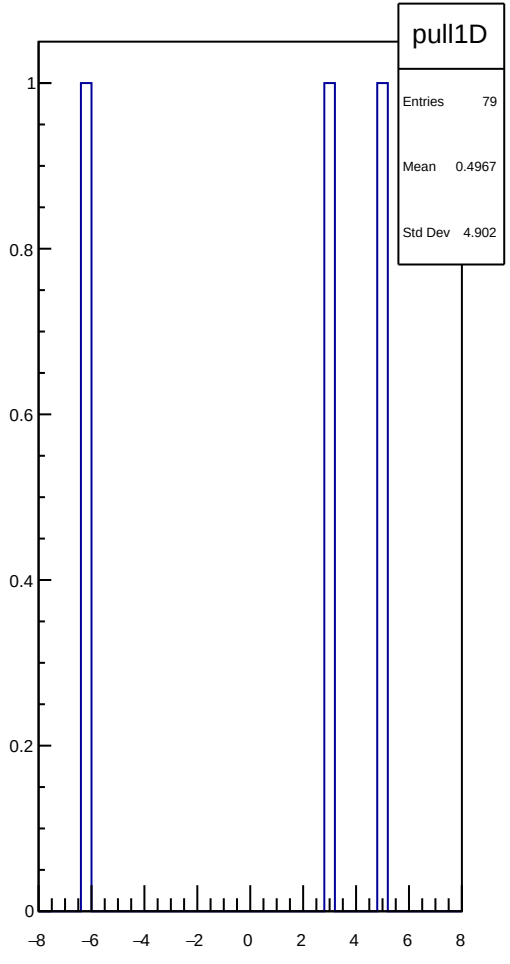

yield_bpm0i01WS_rms vs run
χ² / ndf 1.765e+04 / 78
p0 304.5 ± 0.2473
1800
1600
1400
1200
1000
800
600
400
200

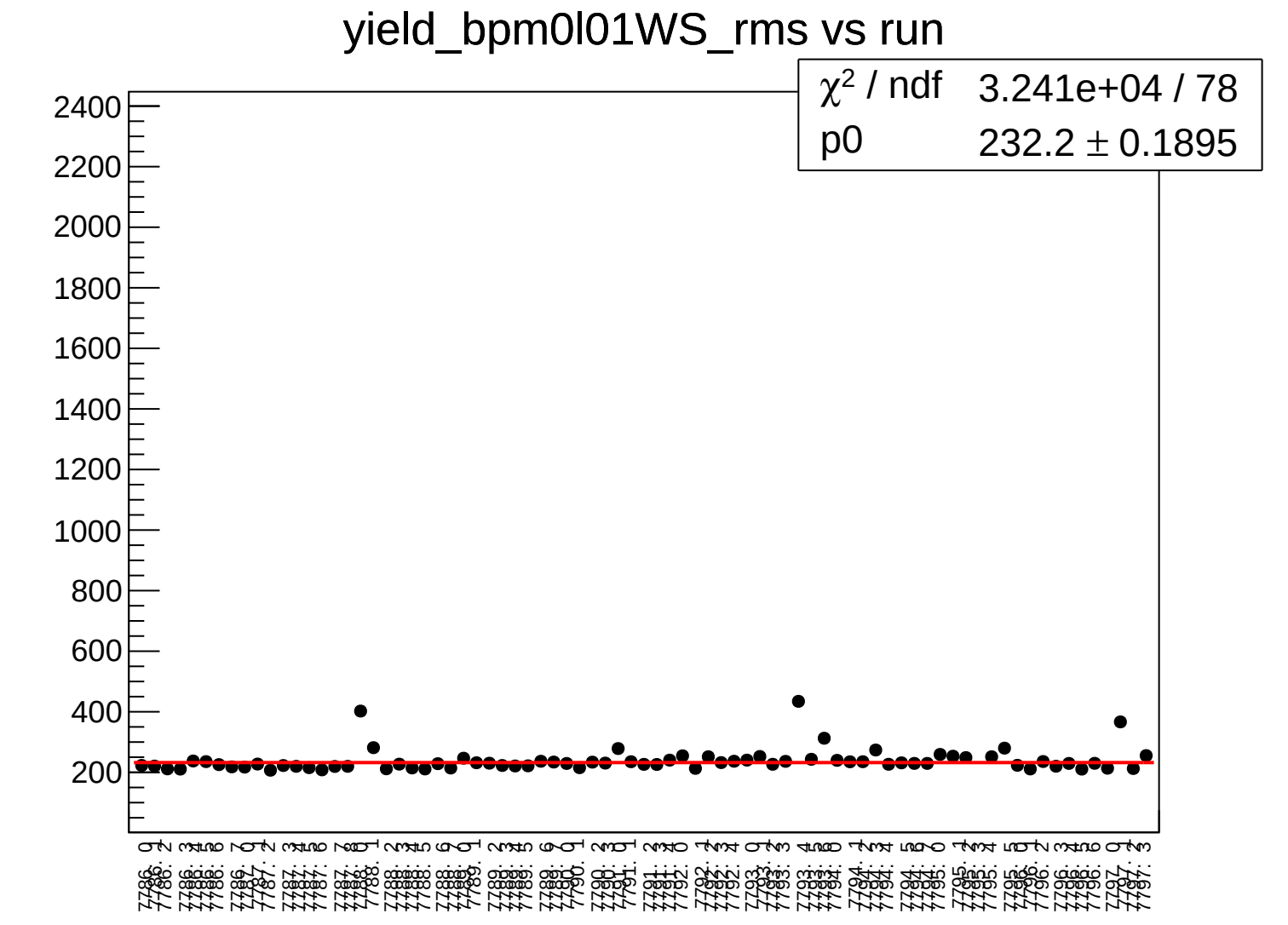

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 4.79e+04 / 78
p0 1.533e+05 ± 0.3106
153.4
153.2
153
152.8
152.6
152.4
152.2
pull
Entries 79
Mean 429.1
Std Dev 0
40
20
0
−20
−40
−60

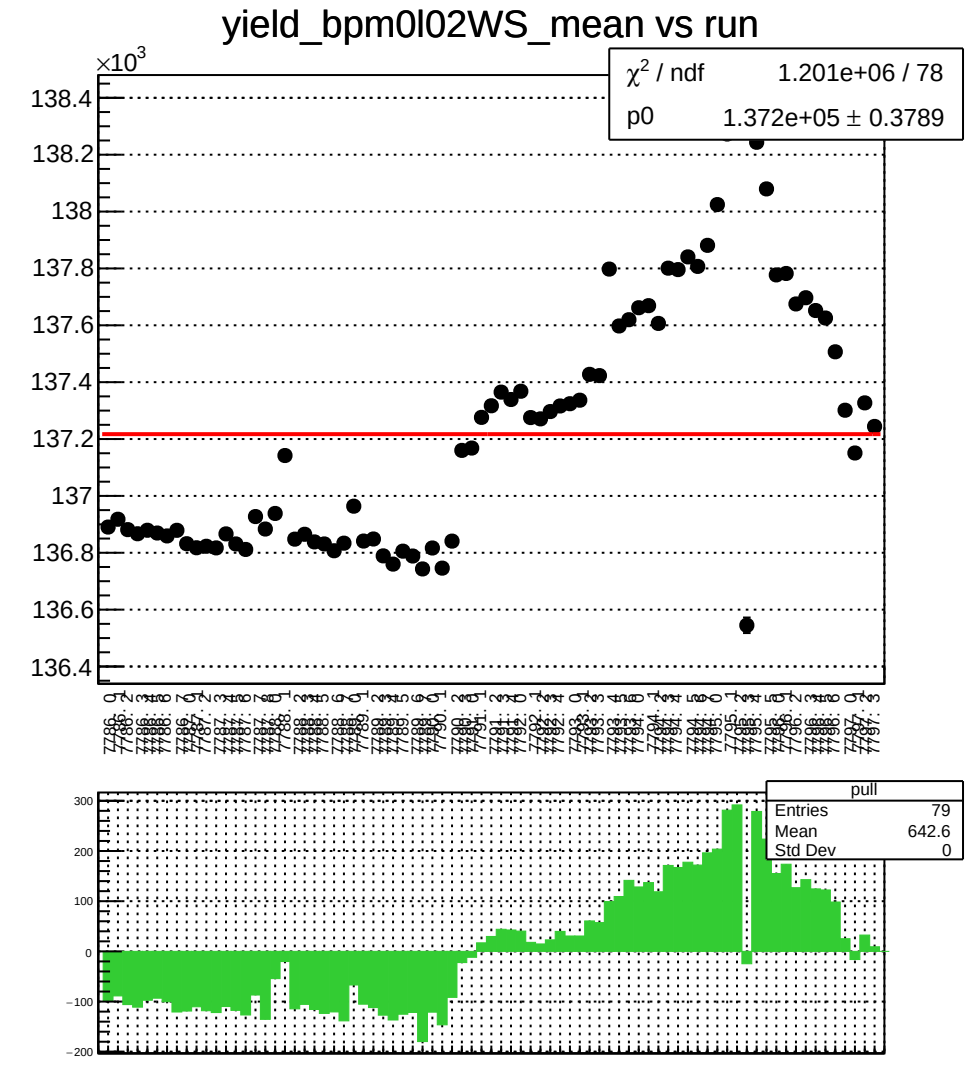

pull1D
Entries 79
Mean 2.965
Std Dev 3.722
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

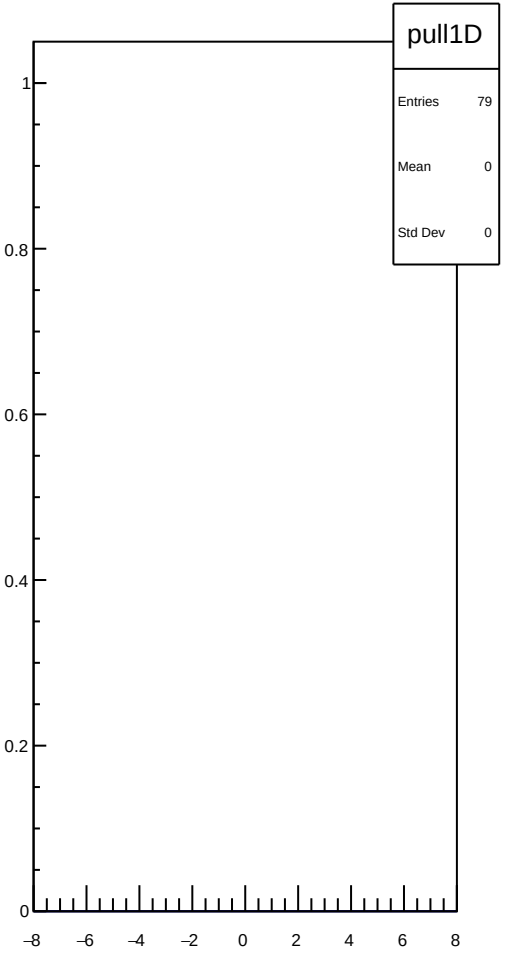

yield_bpm0i01aWS_rms vs run
χ² / ndf 1.736e+04 / 78
p0 270.5 ± 0.2196
1600
1400
1200
1000
800
600
400
200

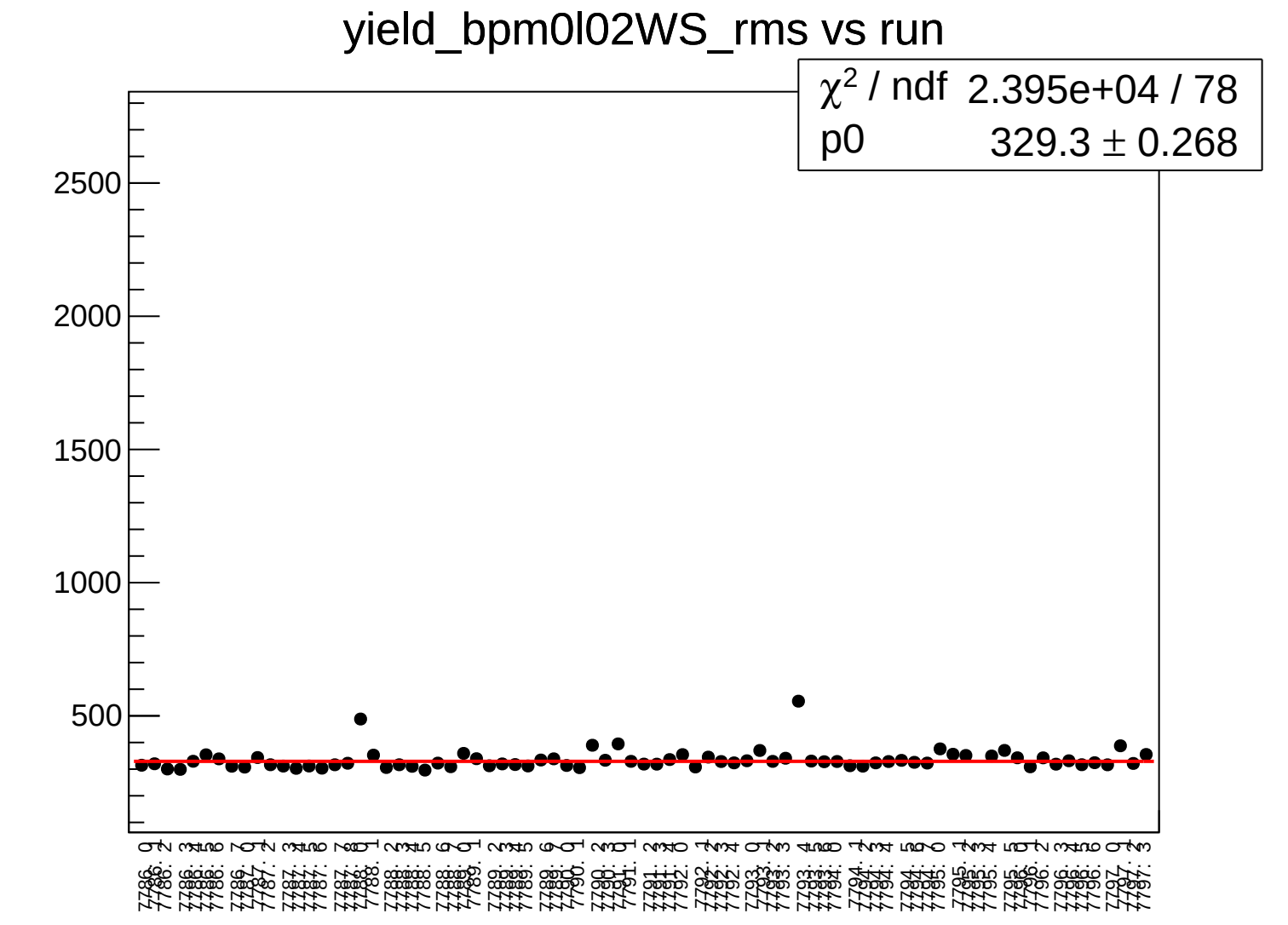

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.595e+05 / 78
p0 1.186e+05 ± 0.268
119
118.5
118
117.5
117
pull
Entries 79
Mean −467.1
Std Dev 0
150
100
50
0
−50
−100
−150

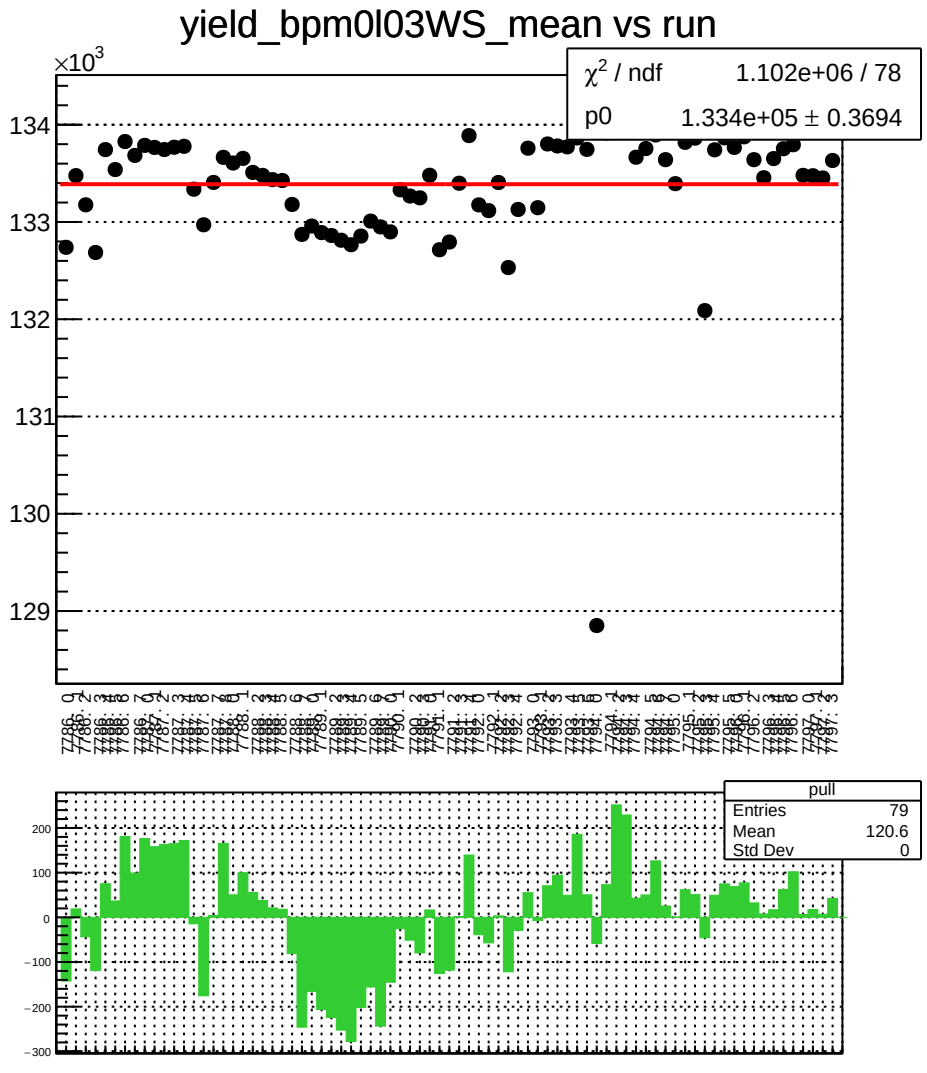

pull1D
Entries 79
Mean 0.4967
Std Dev 4.902
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

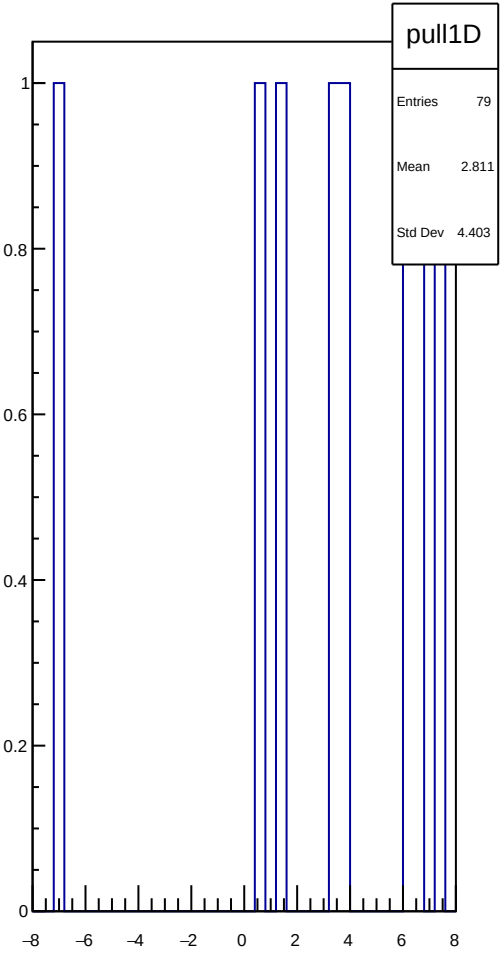

yield_bpm0l01WS_rms vs run
χ² / ndf 3.241e+04 / 78
p0 232.2 ± 0.1895
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

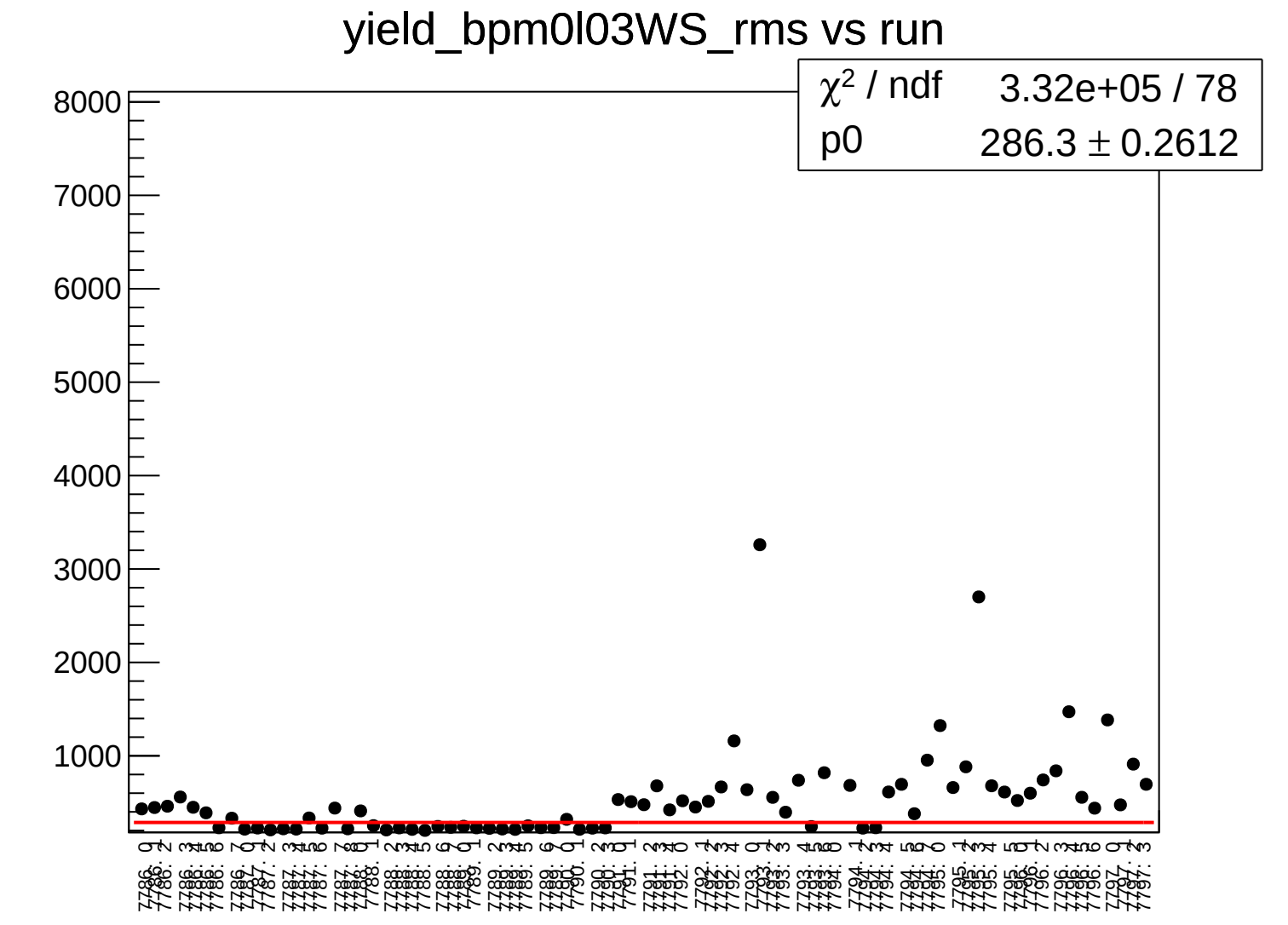

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.201e+06 / 78
p0 1.372e+05 ± 0.3789
138.4
138.2
138
137.8
137.6
137.4
137.2
137
136.8
136.6
136.4
pull
Entries 79
Mean 642.6
Std Dev 0
300
200
100
0
−100
−200

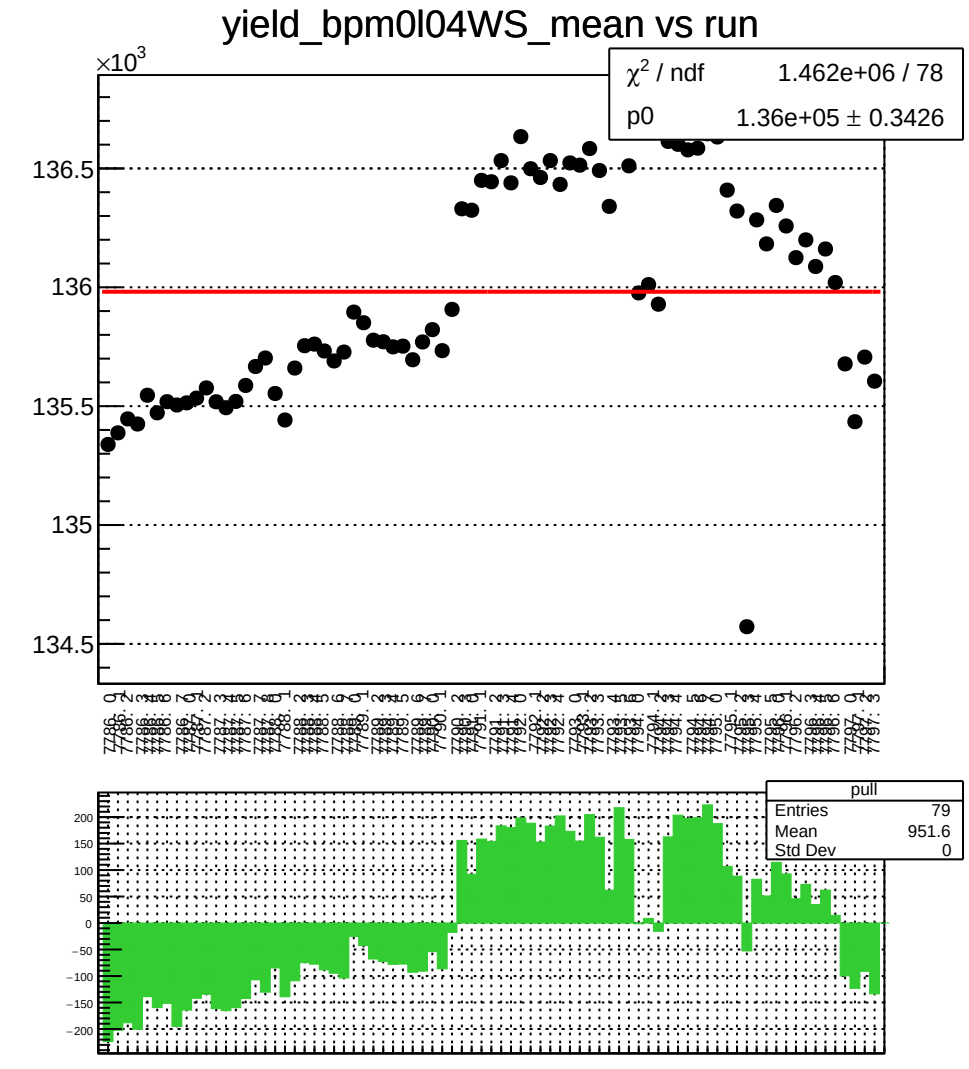

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

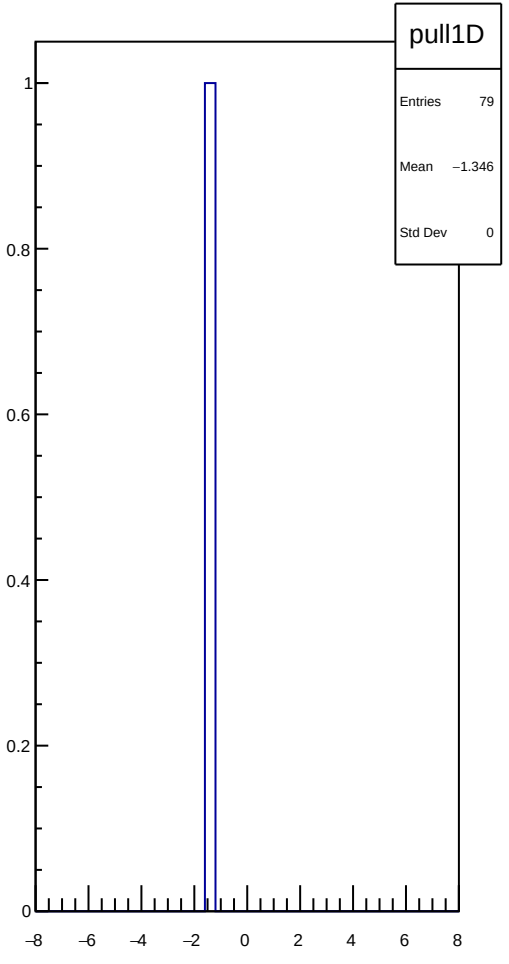

yield_bpm0l02WS_rms vs run
χ² / ndf 2.395e+04 / 78
p0 329.3 ± 0.268
2500
2000
1500
1000
500

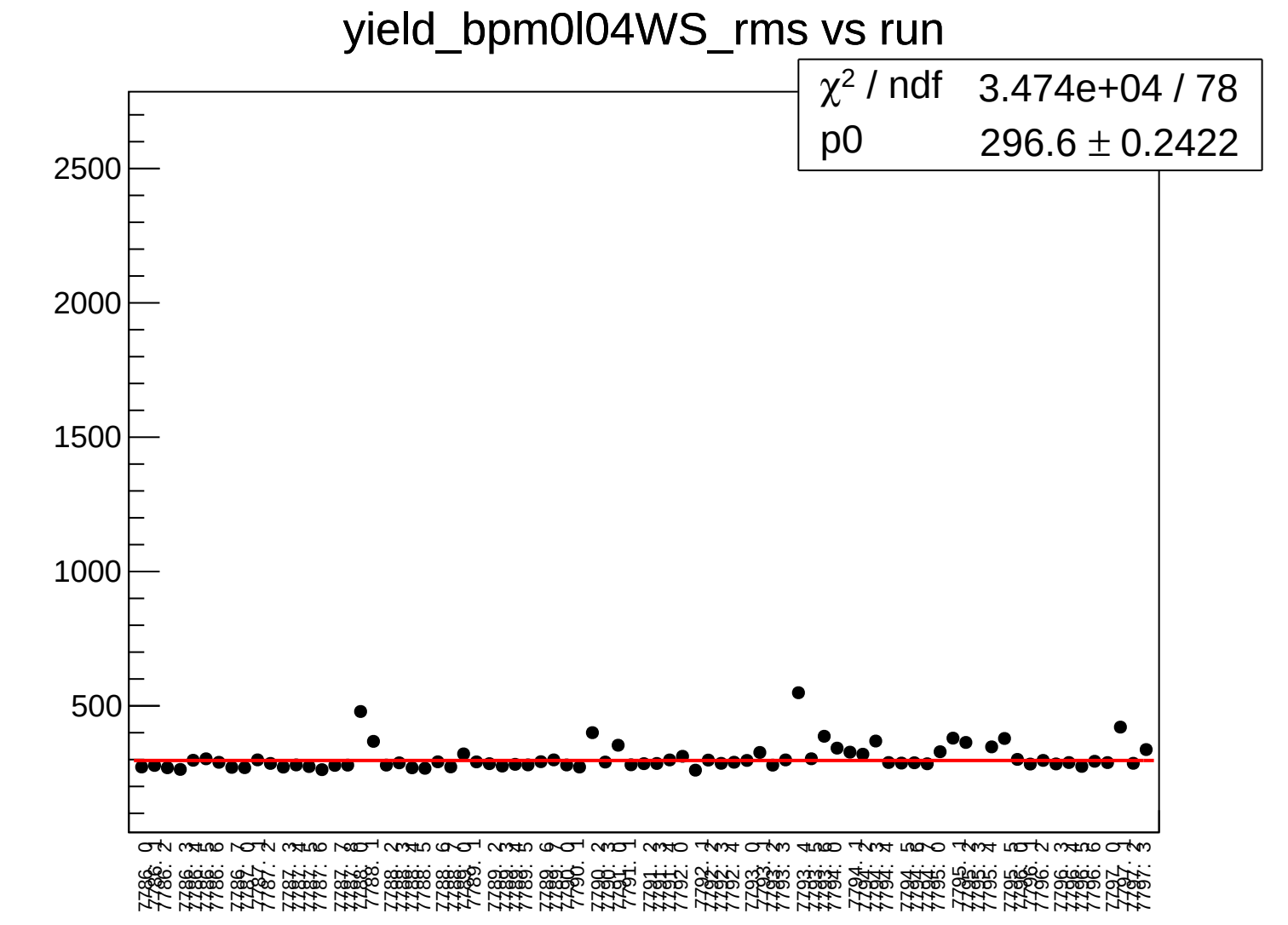

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.102e+06 / 78
p0 1.334e+05 ± 0.3694
134
133
132
131
130
129
pull
Entries 79
Mean 120.6
Std Dev 0
200
100
0
−100
−200
−300

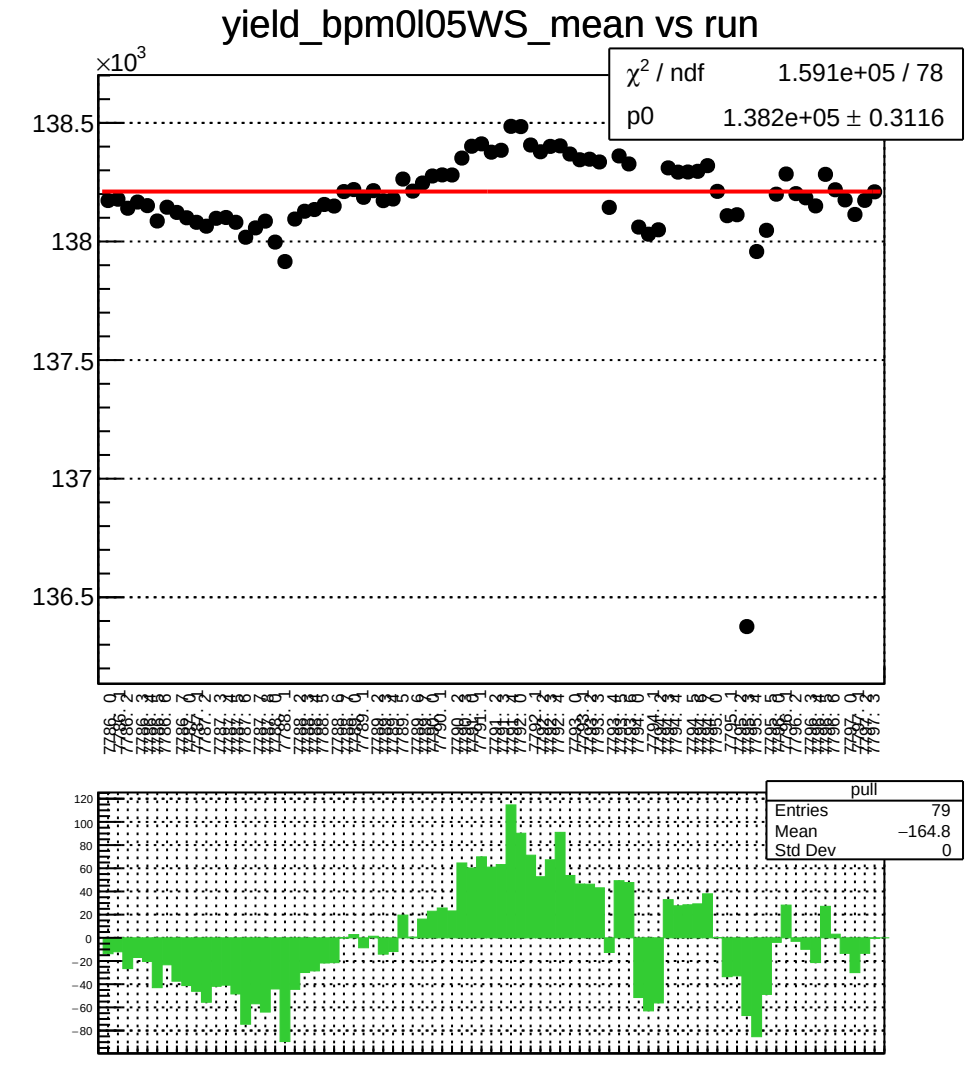

pull1D
Entries 79
Mean 2.811
Std Dev 4.403
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

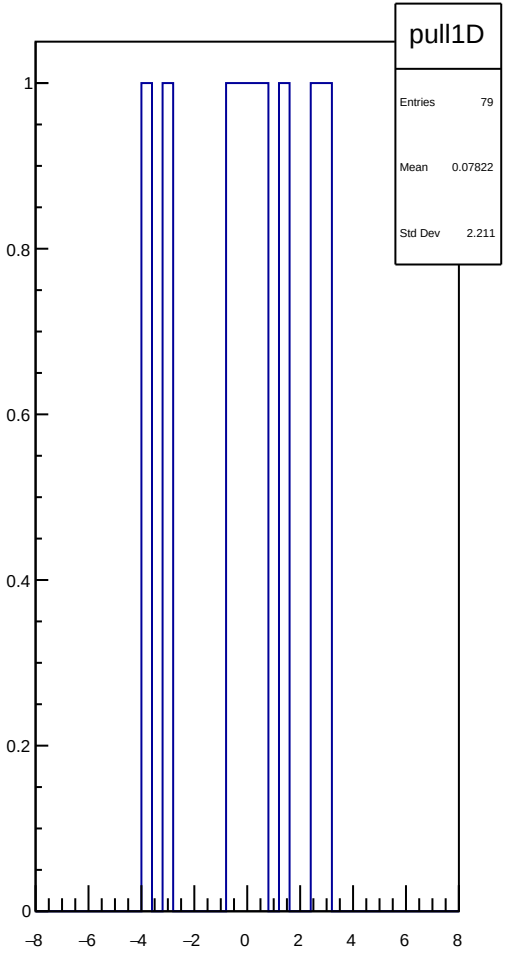

yield_bpm0l03WS_rms vs run
χ² / ndf 3.32e+05 / 78
p0 286.3 ± 0.2612
8000
7000
6000
5000
4000
3000
2000
1000

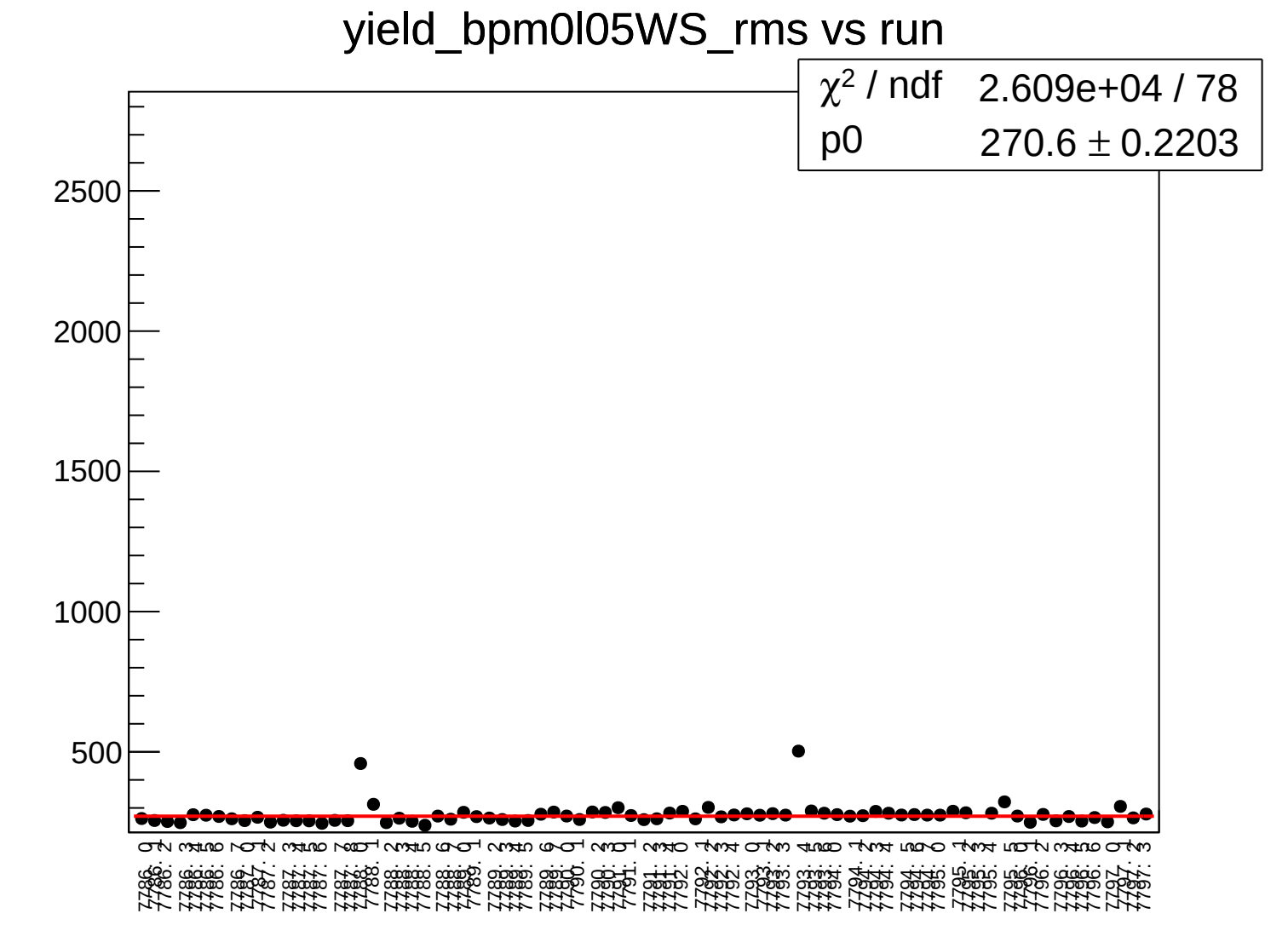

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.462e+06 / 78
p0 1.36e+05 ± 0.3426
136.5
136
135.5
135
134.5
pull
Entries 79
Mean 951.6
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

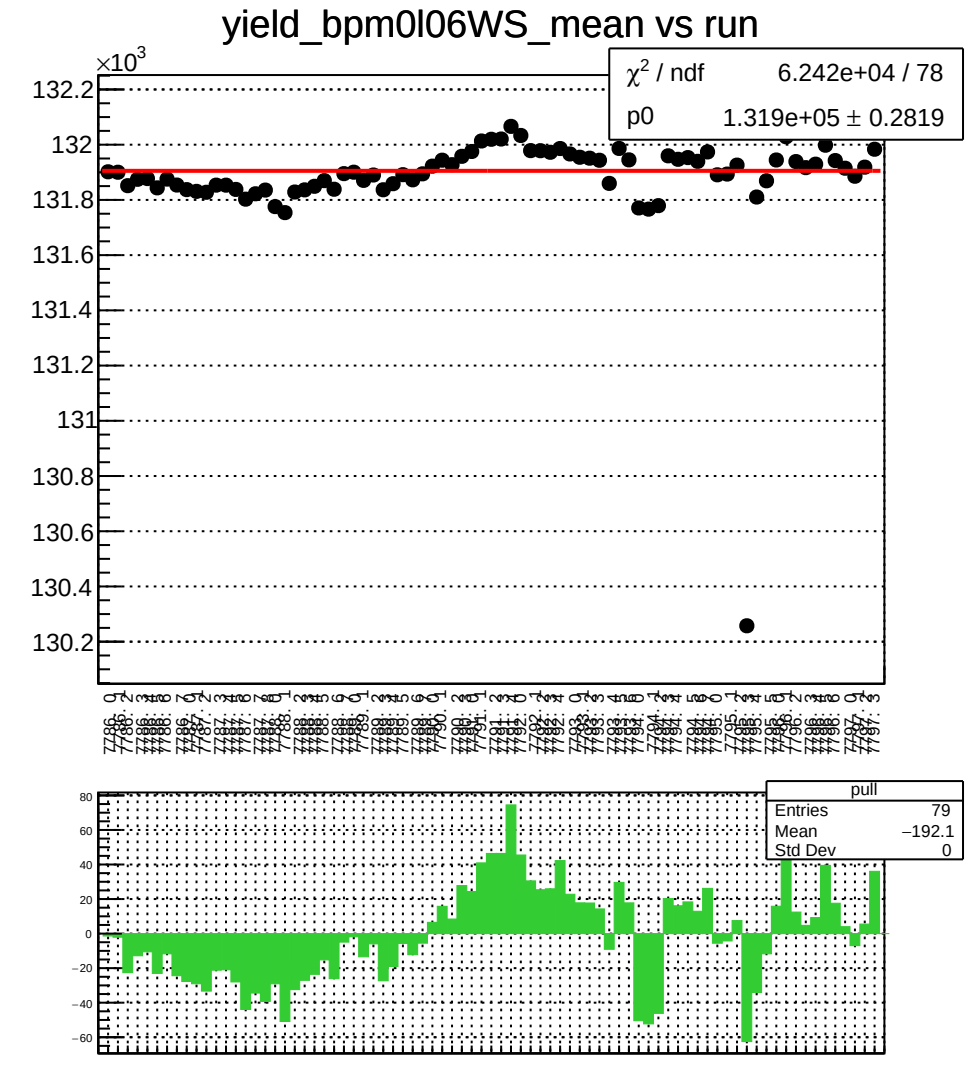

pull1D
Entries 79
Mean −1.346
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

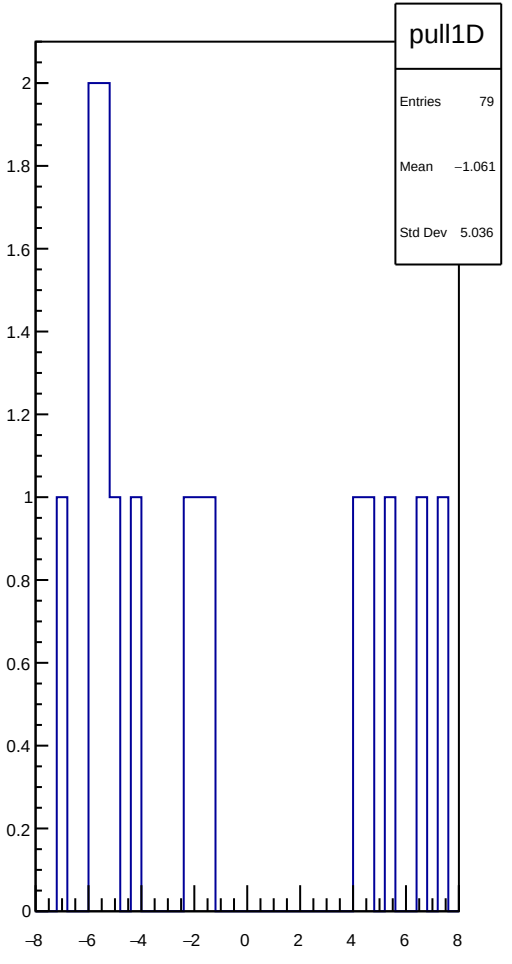

yield_bpm0l04WS_rms vs run
χ² / ndf 3.474e+04 / 78
p0 296.6 ± 0.2422
2500
2000
1500
1000
500

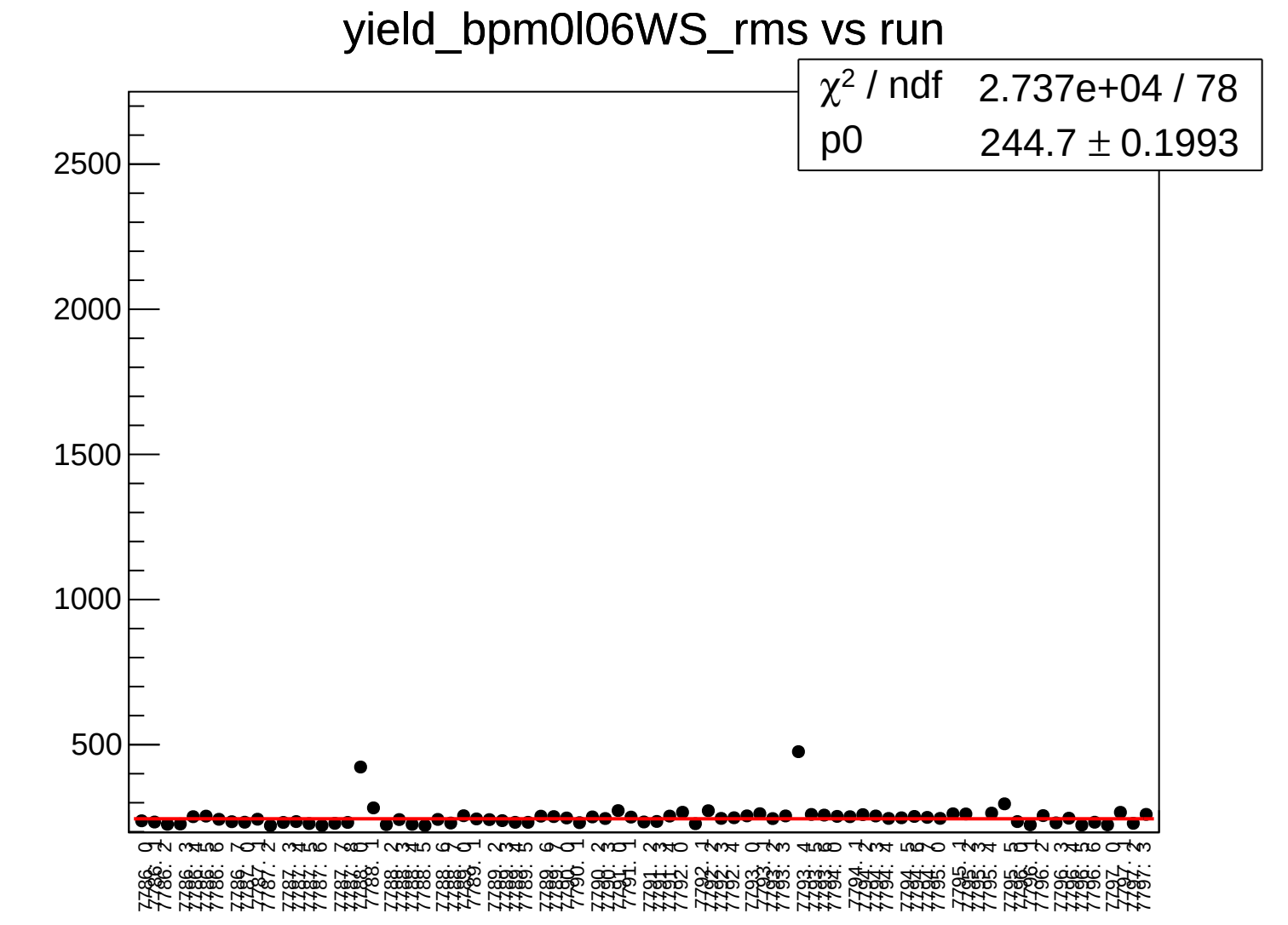

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.591e+05 / 78
p0 1.382e+05 ± 0.3116
138.5
138
137.5
137
136.5
pull
Entries 79
Mean −164.8
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

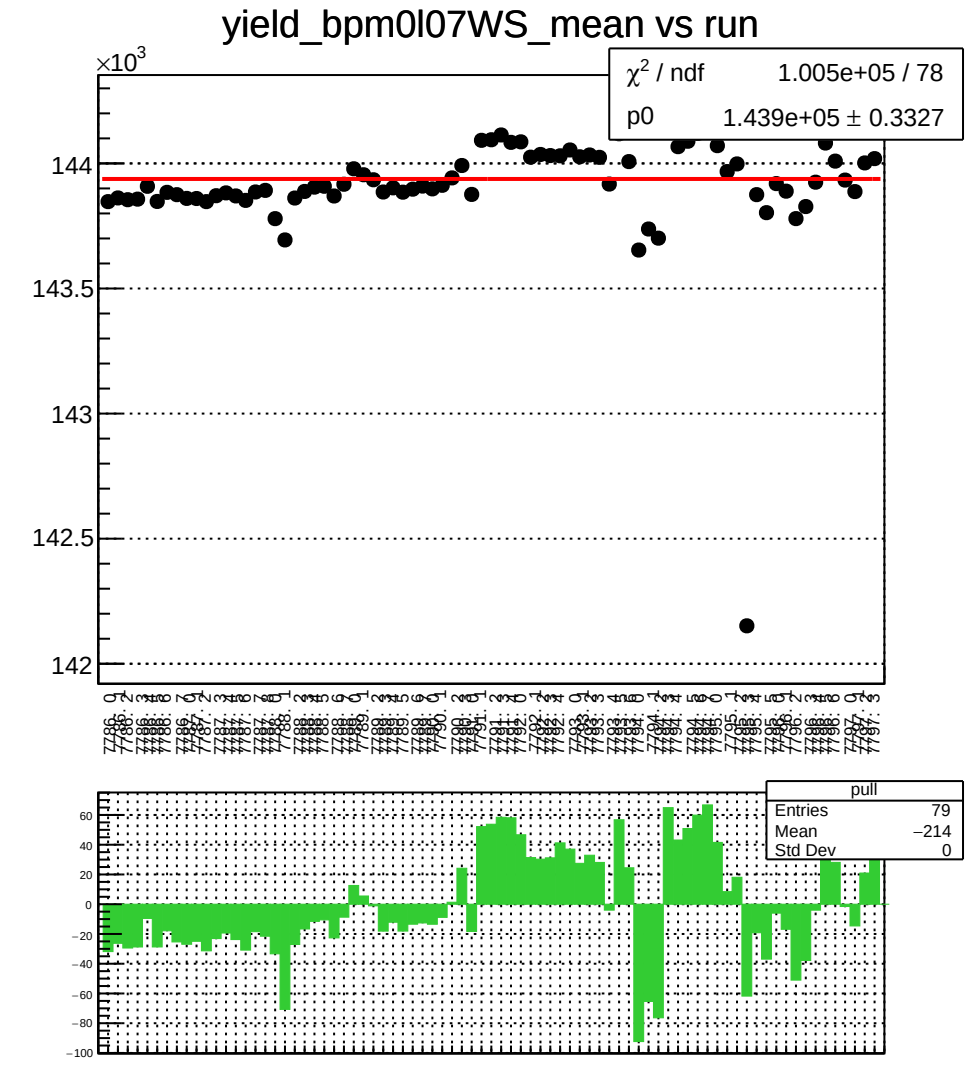

pull1D
Entries 79
Mean 0.07822
Std Dev 2.211
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

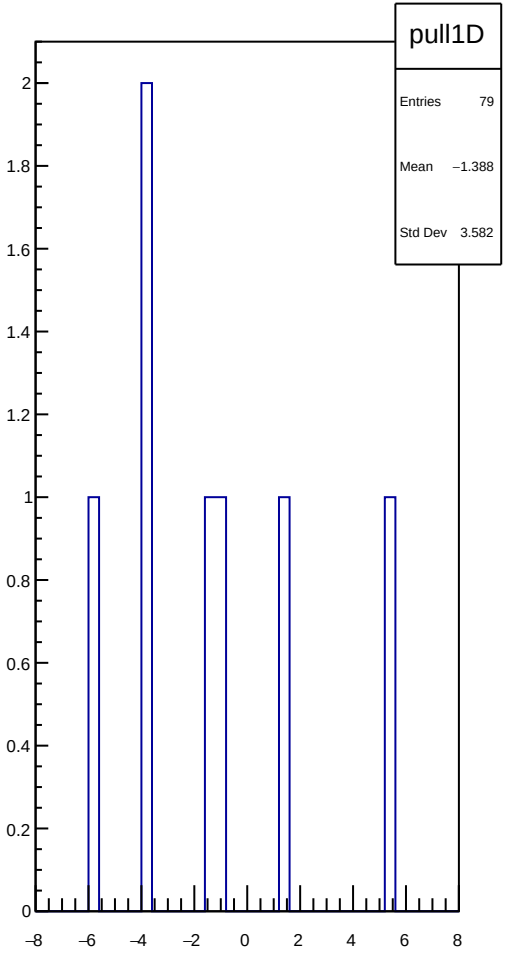

yield_bpm0l05WS_rms vs run
χ² / ndf 2.609e+04 / 78
p0 270.6 ± 0.2203
2500
2000
1500
1000
500

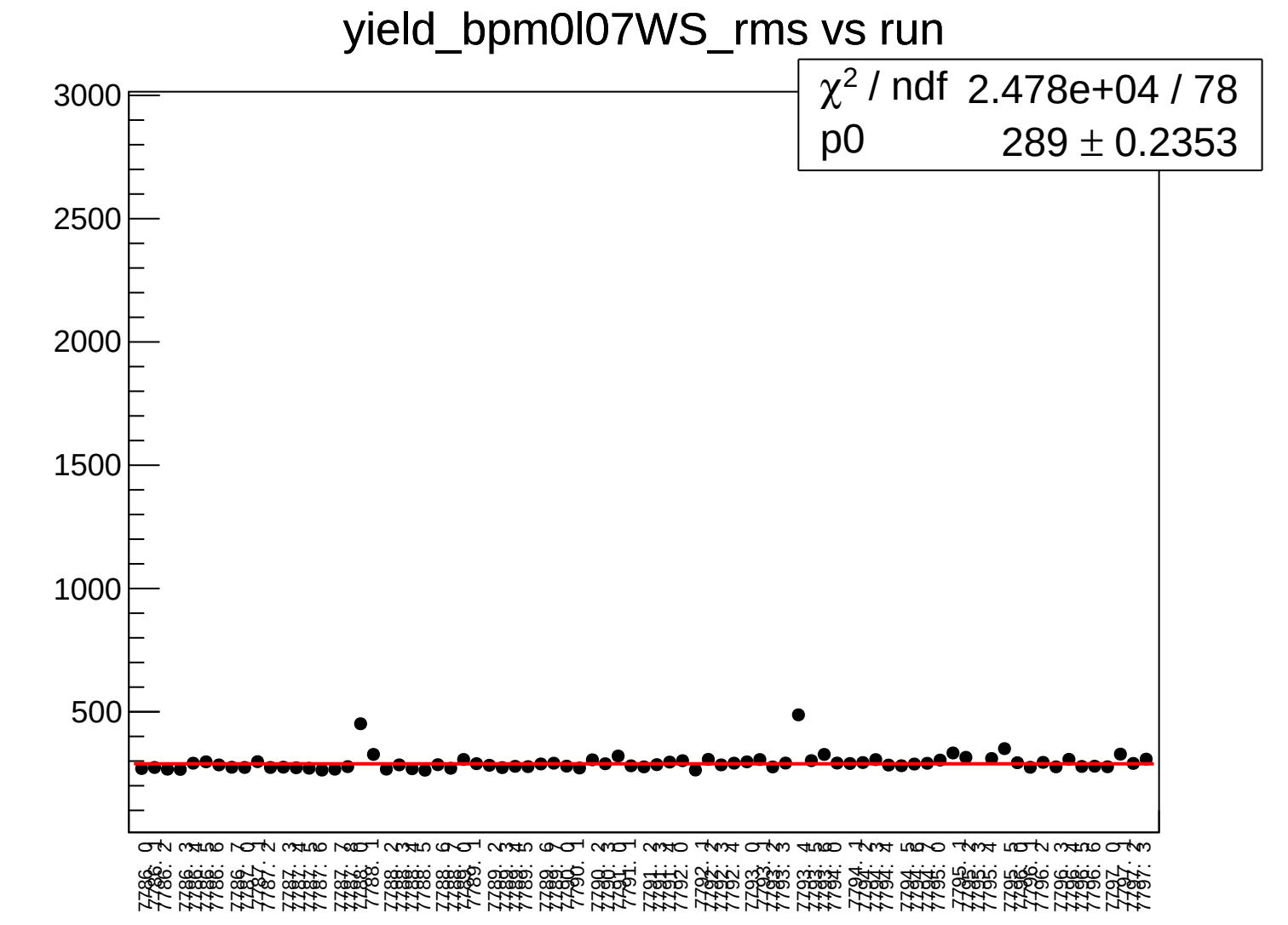

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 6.242e+04 / 78
p0 1.319e+05 ± 0.2819
132.2
132
131.8
131.6
131.4
131.2
131
130.8
130.6
130.4
130.2
pull
Entries 79
Mean −192.1
Std Dev 0
80
60
40
20
0
−20
−40
−60

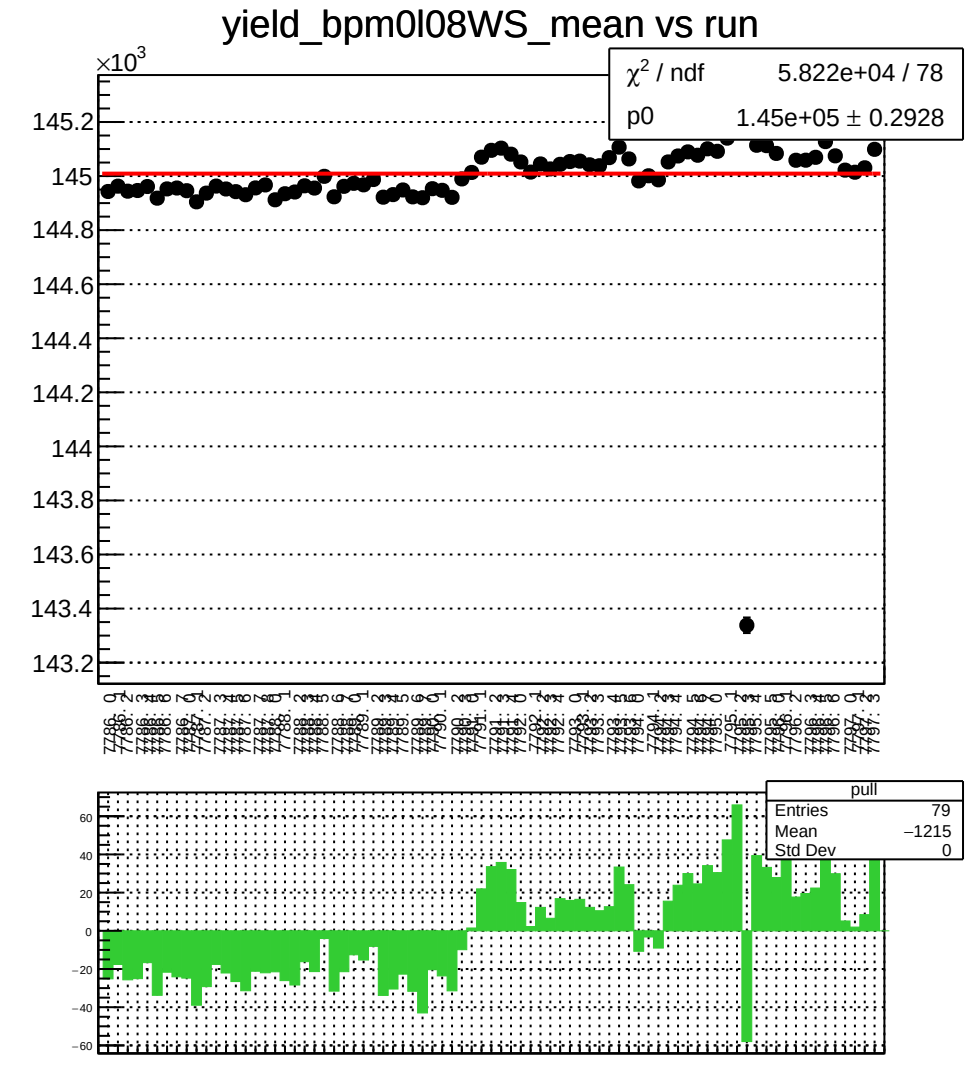

pull1D
Entries 79
Mean −1.061
Std Dev 5.036
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

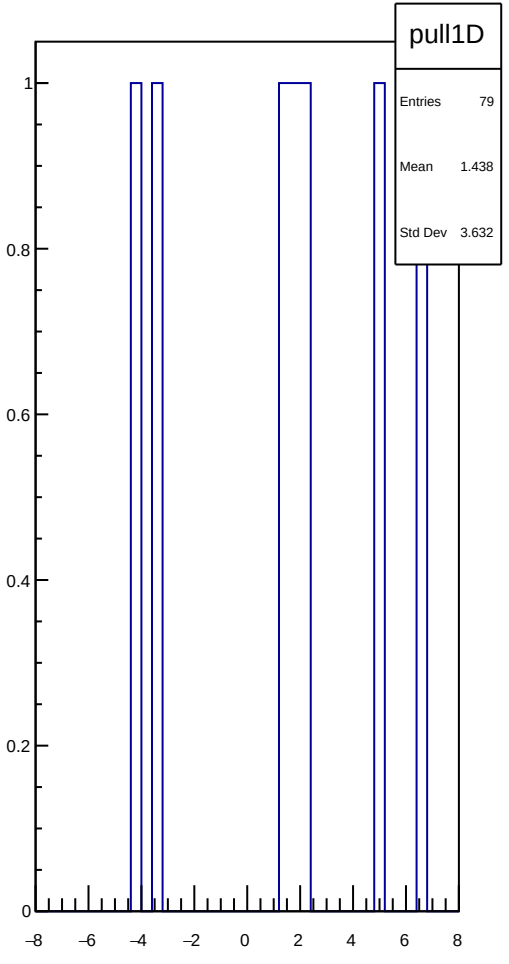

yield_bpm0l06WS_rms vs run
χ² / ndf 2.737e+04 / 78
p0 244.7 ± 0.1993
2500
2000
1500
1000
500

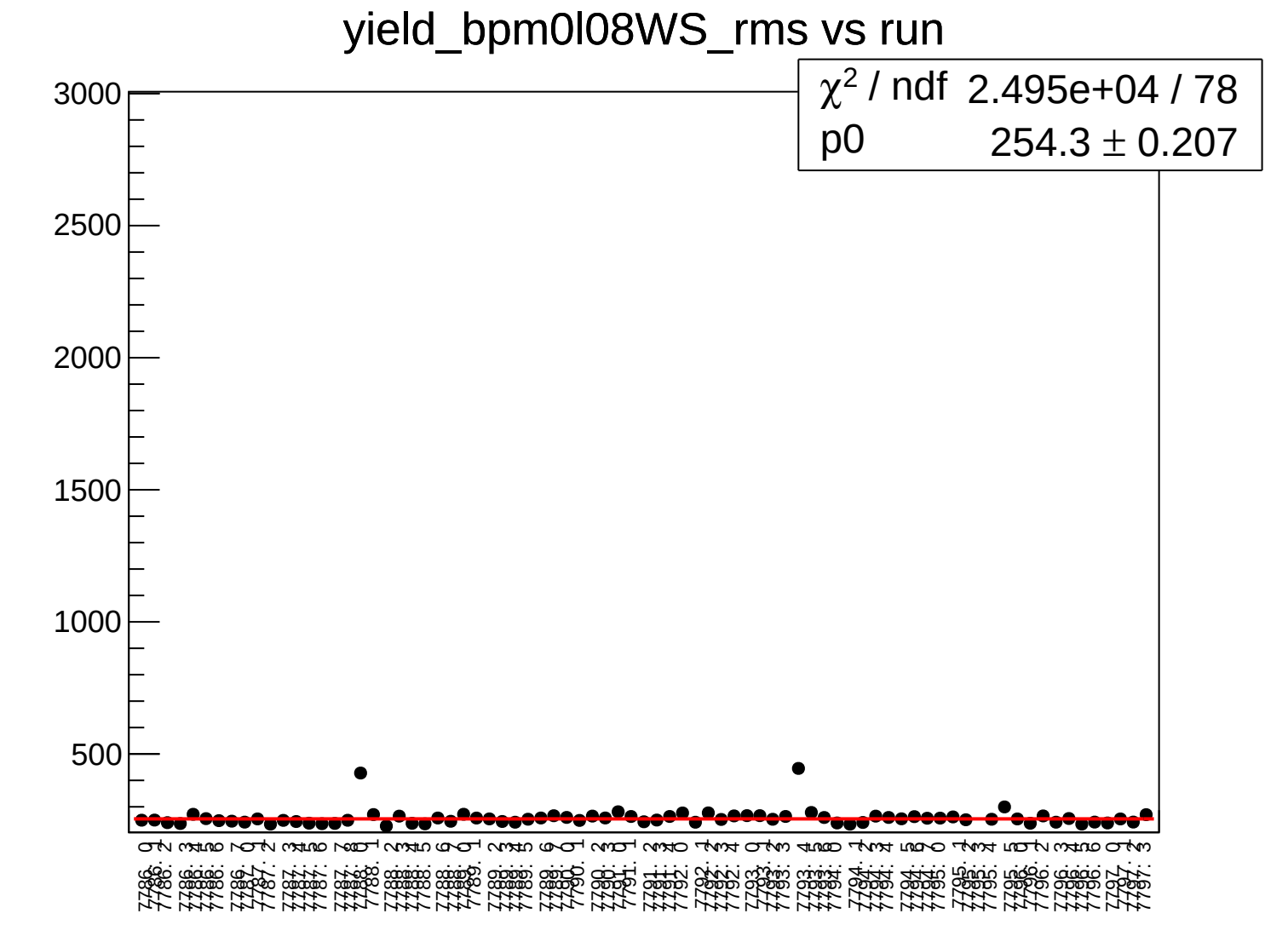

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.005e+05 / 78
p0 1.439e+05 ± 0.3327
144
143.5
143
142.5
142
pull
Entries 79
Mean −214
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

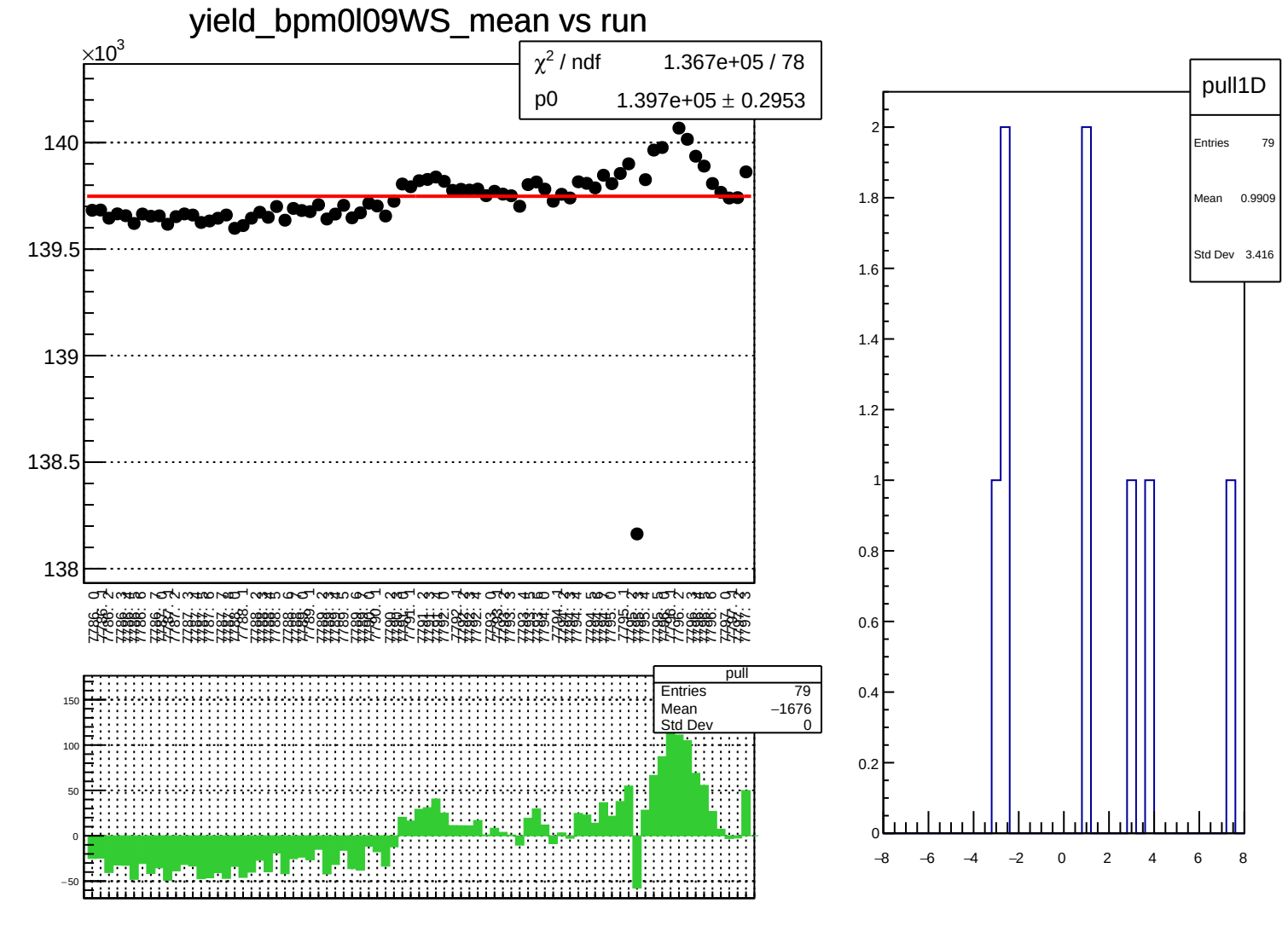

pull1D
Entries 79
Mean −1.388
Std Dev 3.582
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

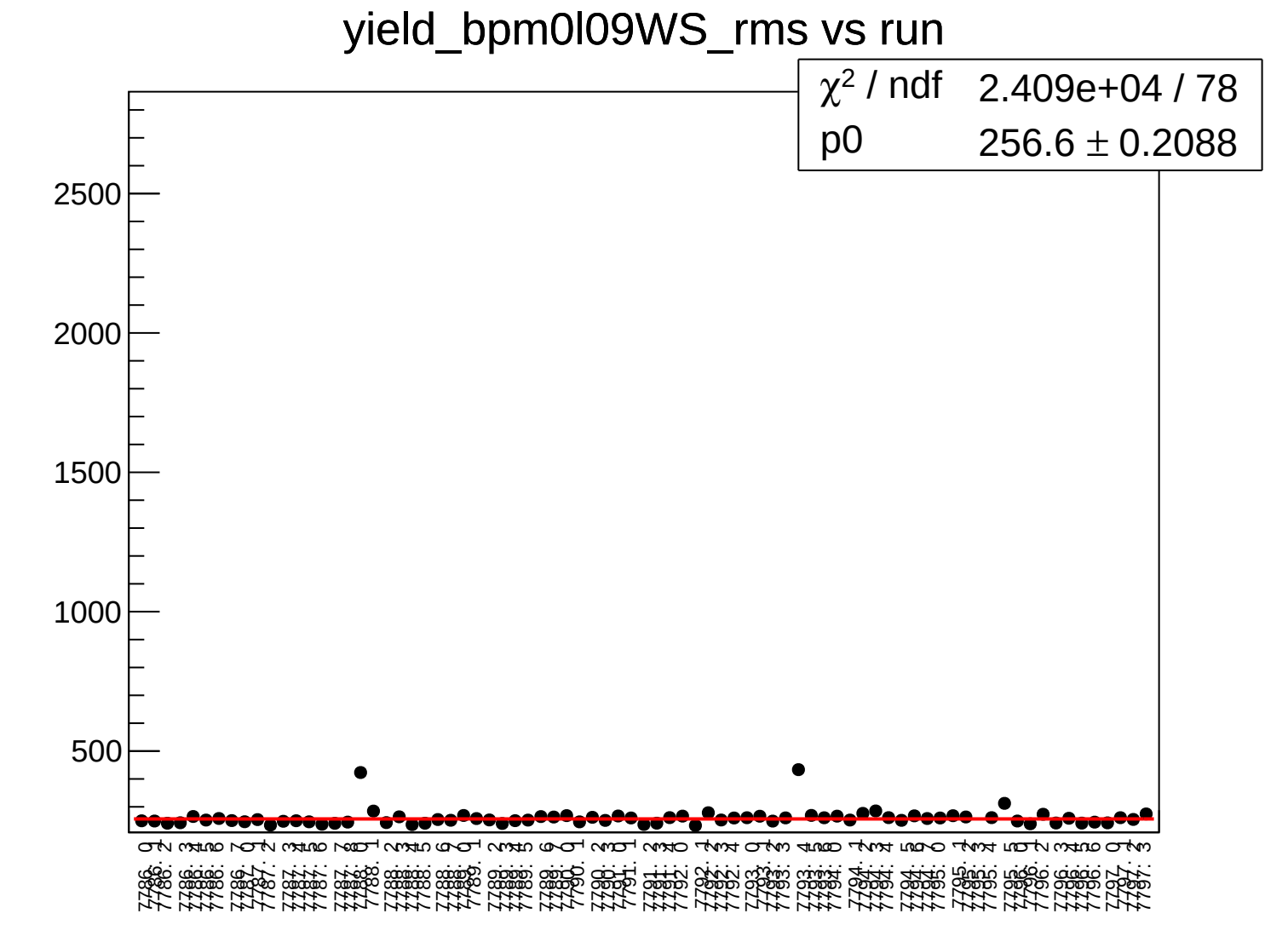

yield_bpm0l07WS_rms vs run
χ² / ndf 2.478e+04 / 78
p0 289 ± 0.2353
3000
2500
2000
1500
1000
500

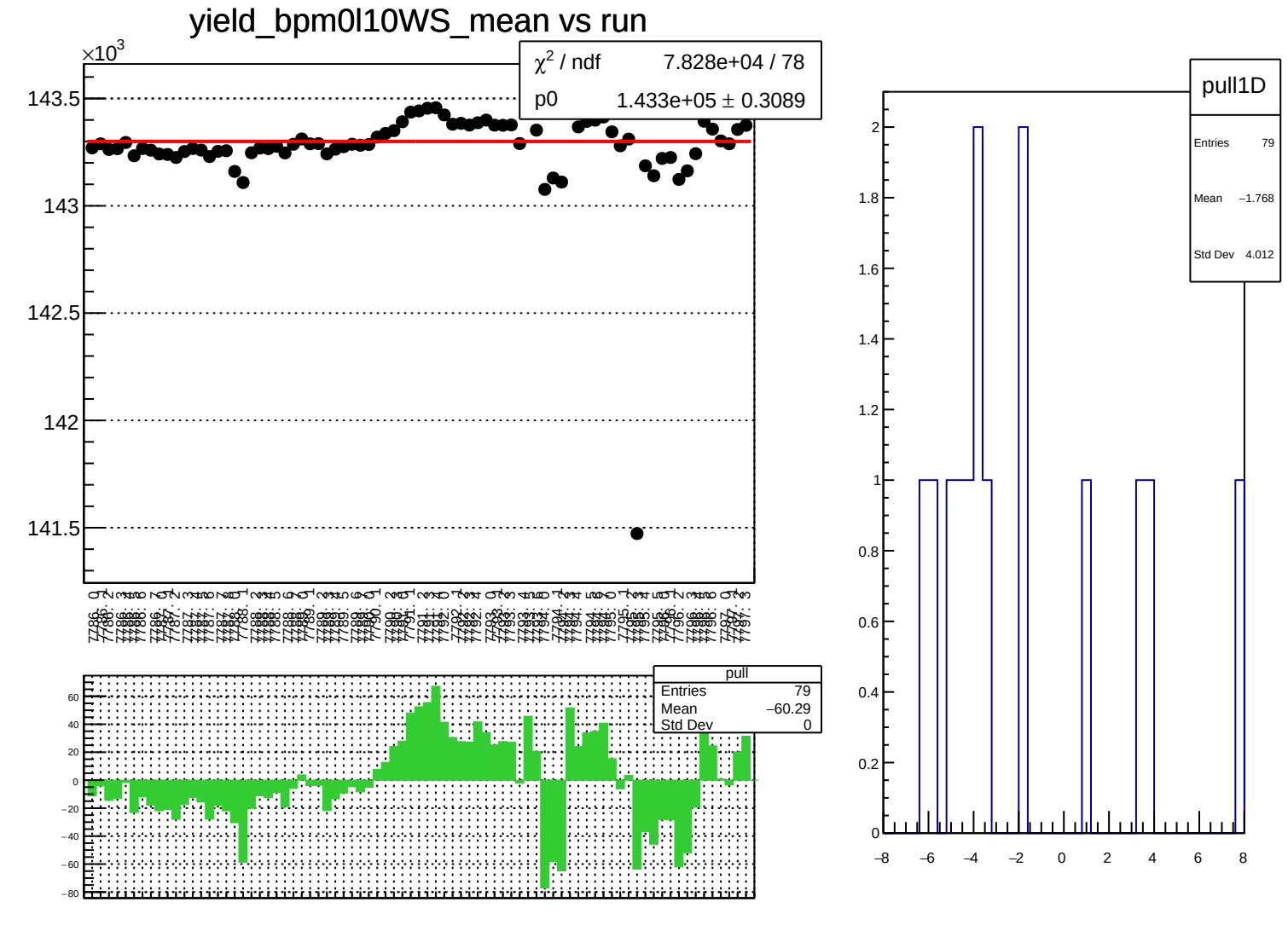

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 5.822e+04 / 78
p0 1.45e+05 ± 0.2928
145.2
145
144.8
144.6
144.4
144.2
144
143.8
143.6
143.4
143.2
pull
Entries 79
Mean −1215
Std Dev 0
60
40
20
0
−20
−40
−60

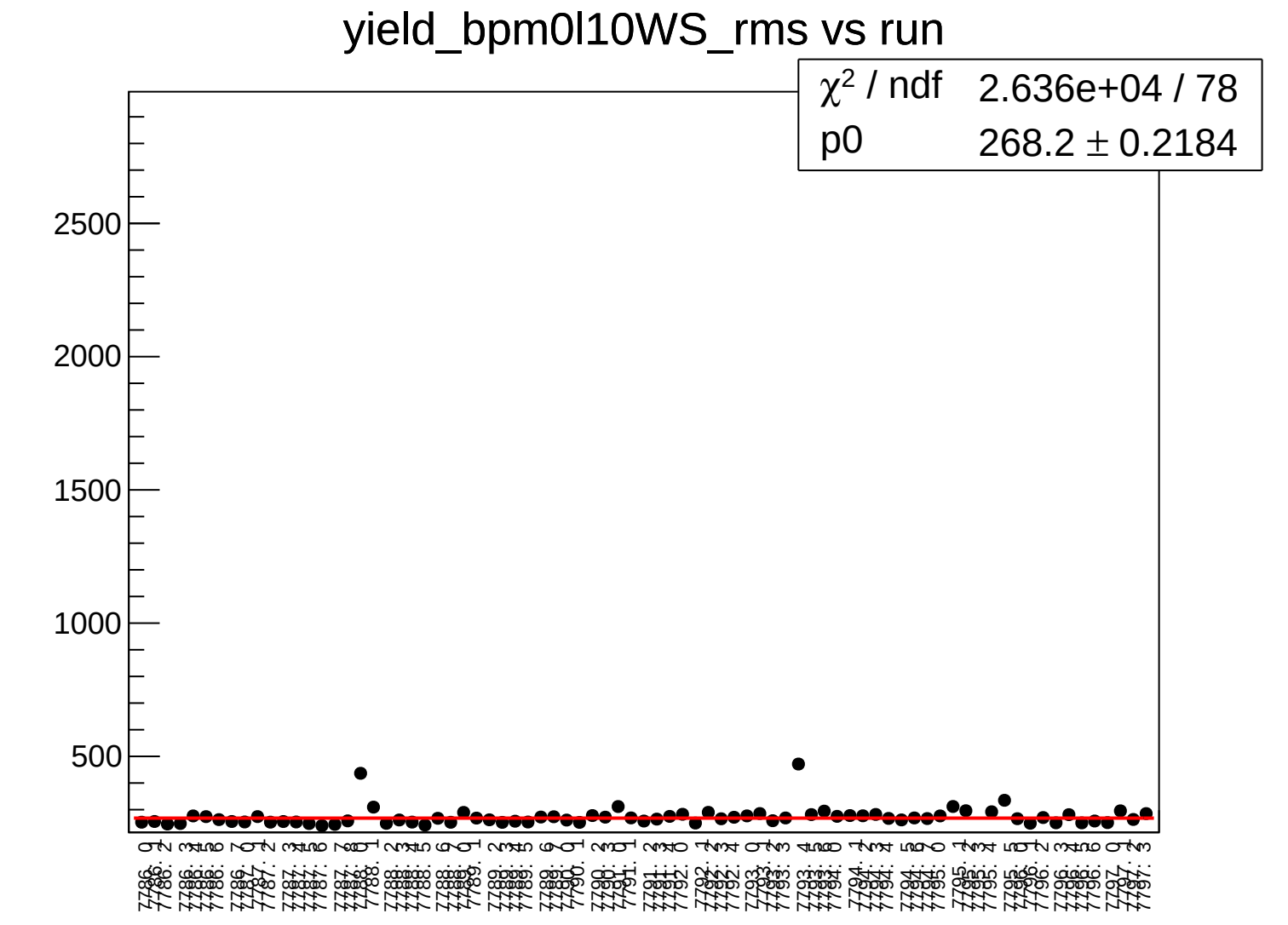

pull1D
Entries 79
Mean 1.438
Std Dev 3.632
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

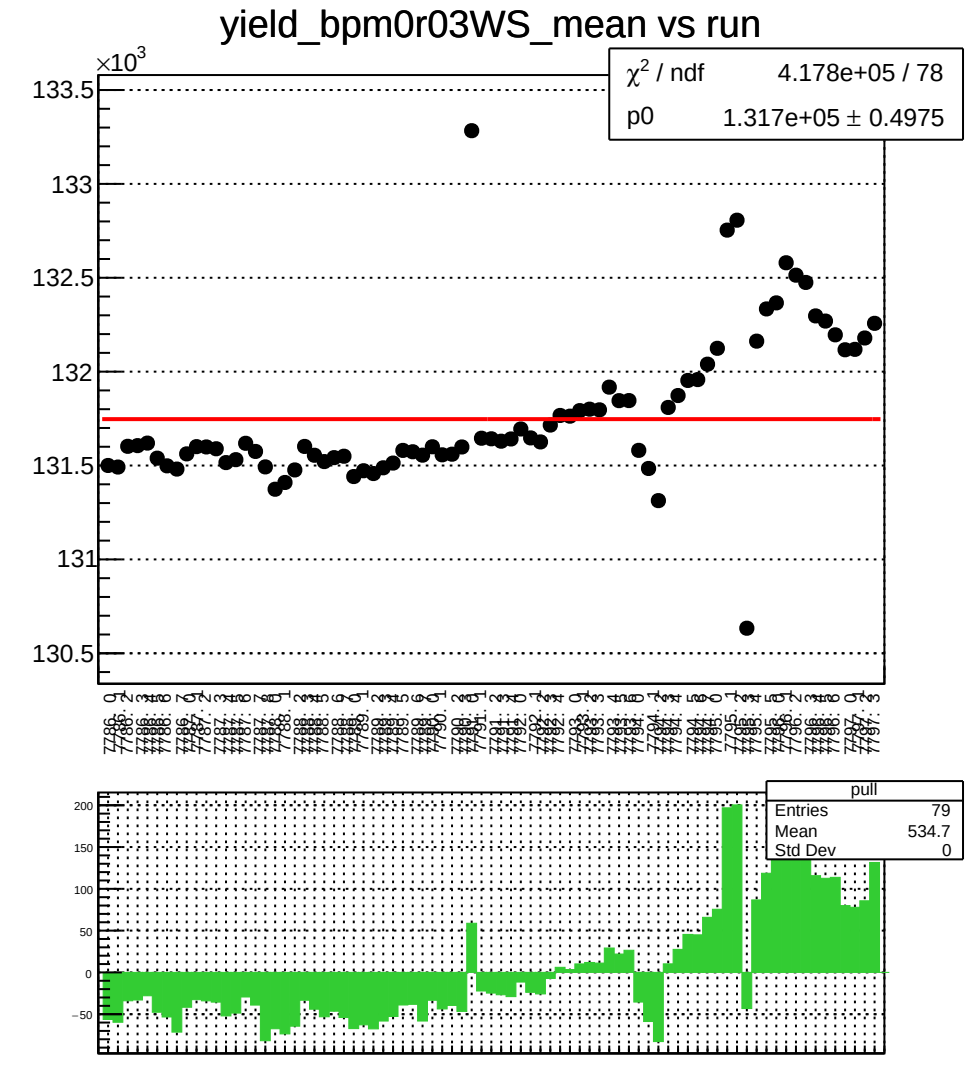

yield_bpm0l08WS_rms vs run
χ² / ndf 2.495e+04 / 78
p0 254.3 ± 0.207
3000
2500
2000
1500
1000
500

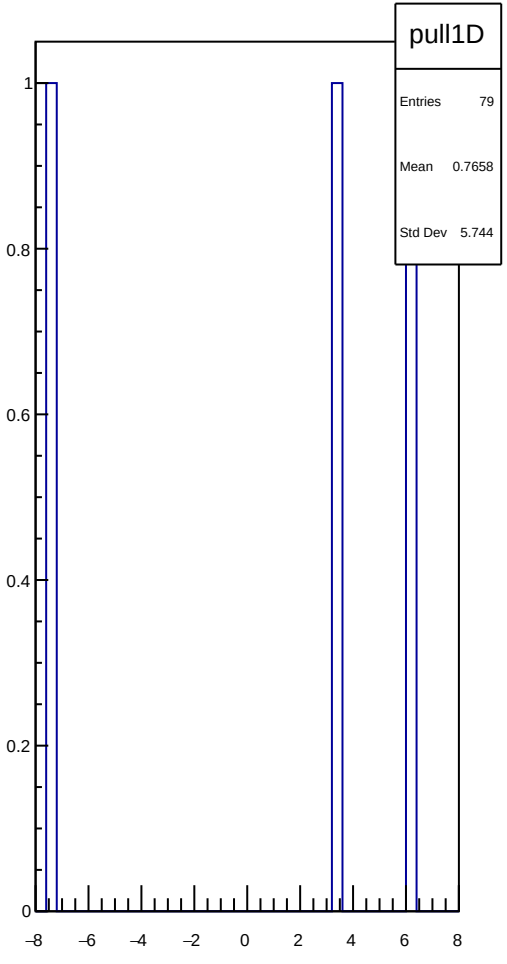

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.367e+05 / 78
p0 1.397e+05 ± 0.2953
140
139.5
139
138.5
138
pull
Entries 79
Mean −1676
Std Dev 0
150
100
50
0
−50
pull1D
Entries 79
Mean 0.9909
Std Dev 3.416
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

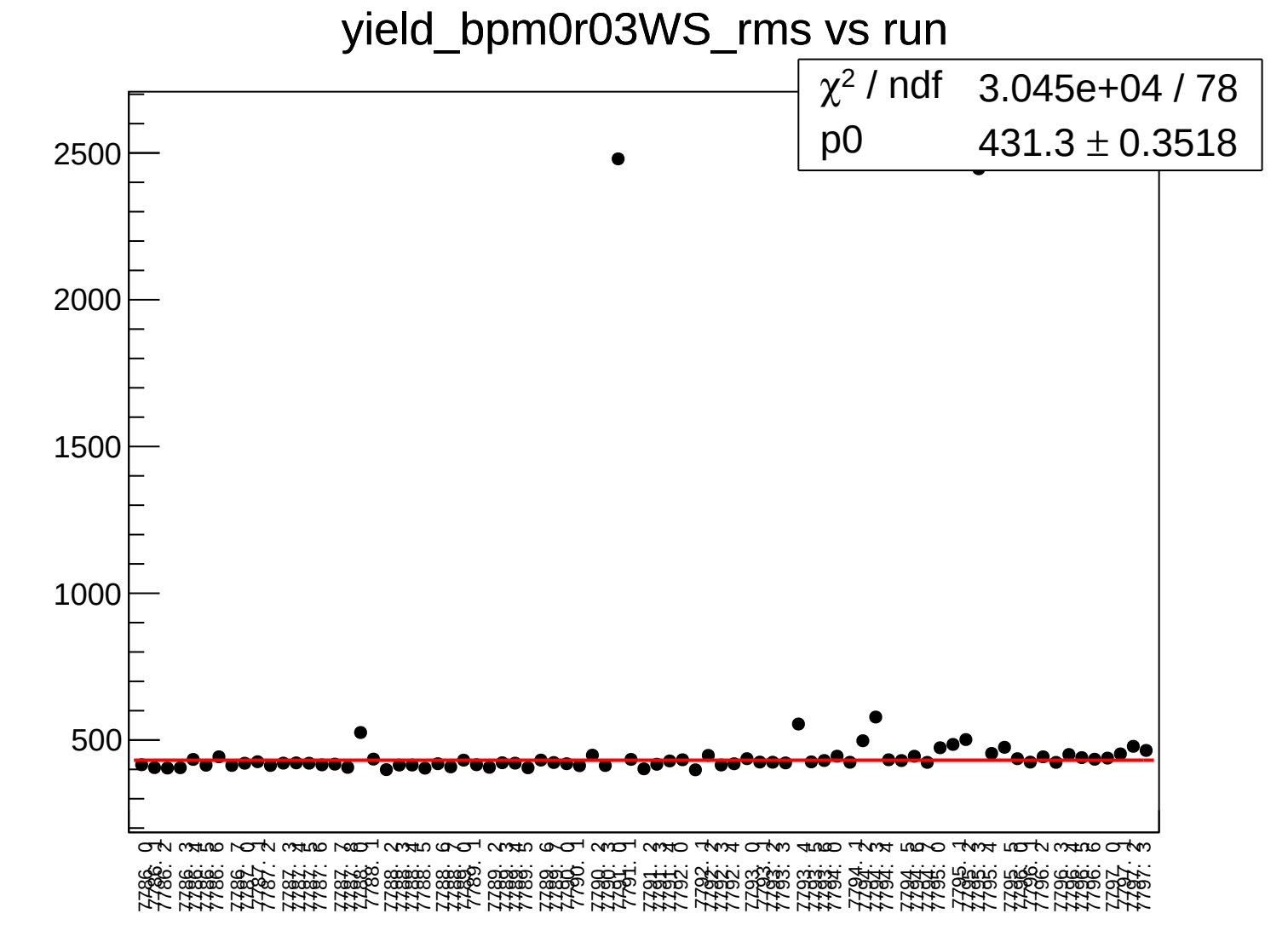

yield_bpm0l09WS_rms vs run
χ² / ndf 2.409e+04 / 78
p0 256.6 ± 0.2088
2500
2000
1500
1000
500

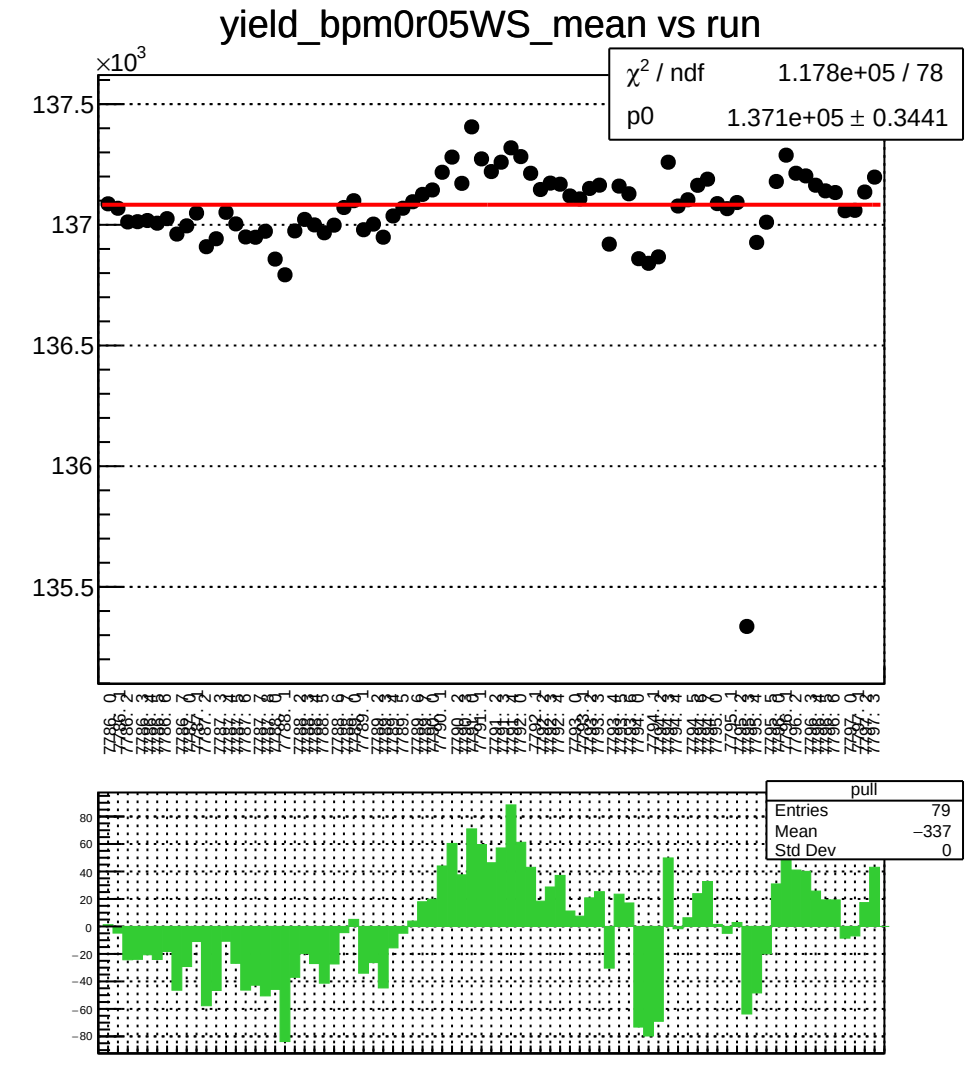

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 7.828e+04 / 78
p0 1.433e+05 ± 0.3089
143.5
143
142.5
142
141.5
pull
Entries 79
Mean −60.29
Std Dev 0
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 79
Mean −1.768
Std Dev 4.012
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

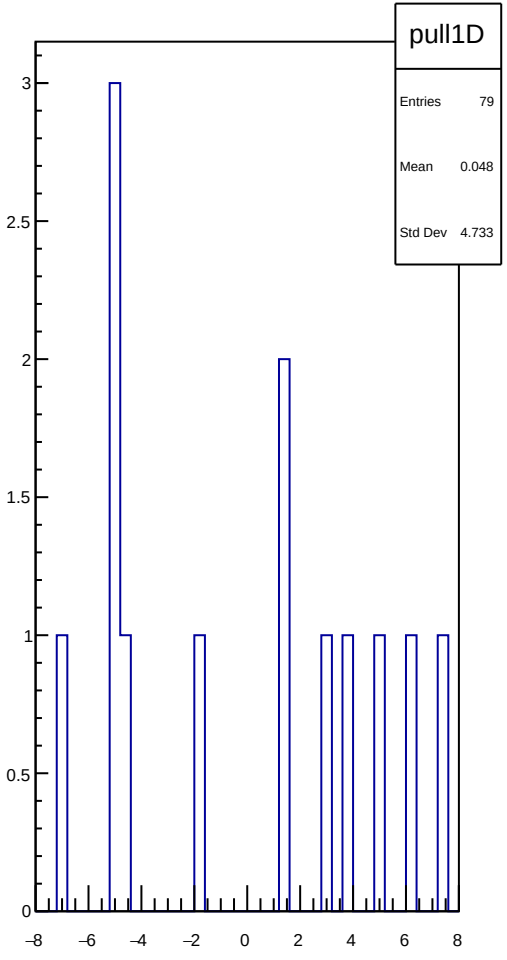

yield_bpm0l10WS_rms vs run
χ² / ndf 2.636e+04 / 78
p0 268.2 ± 0.2184
2500
2000
1500
1000
500

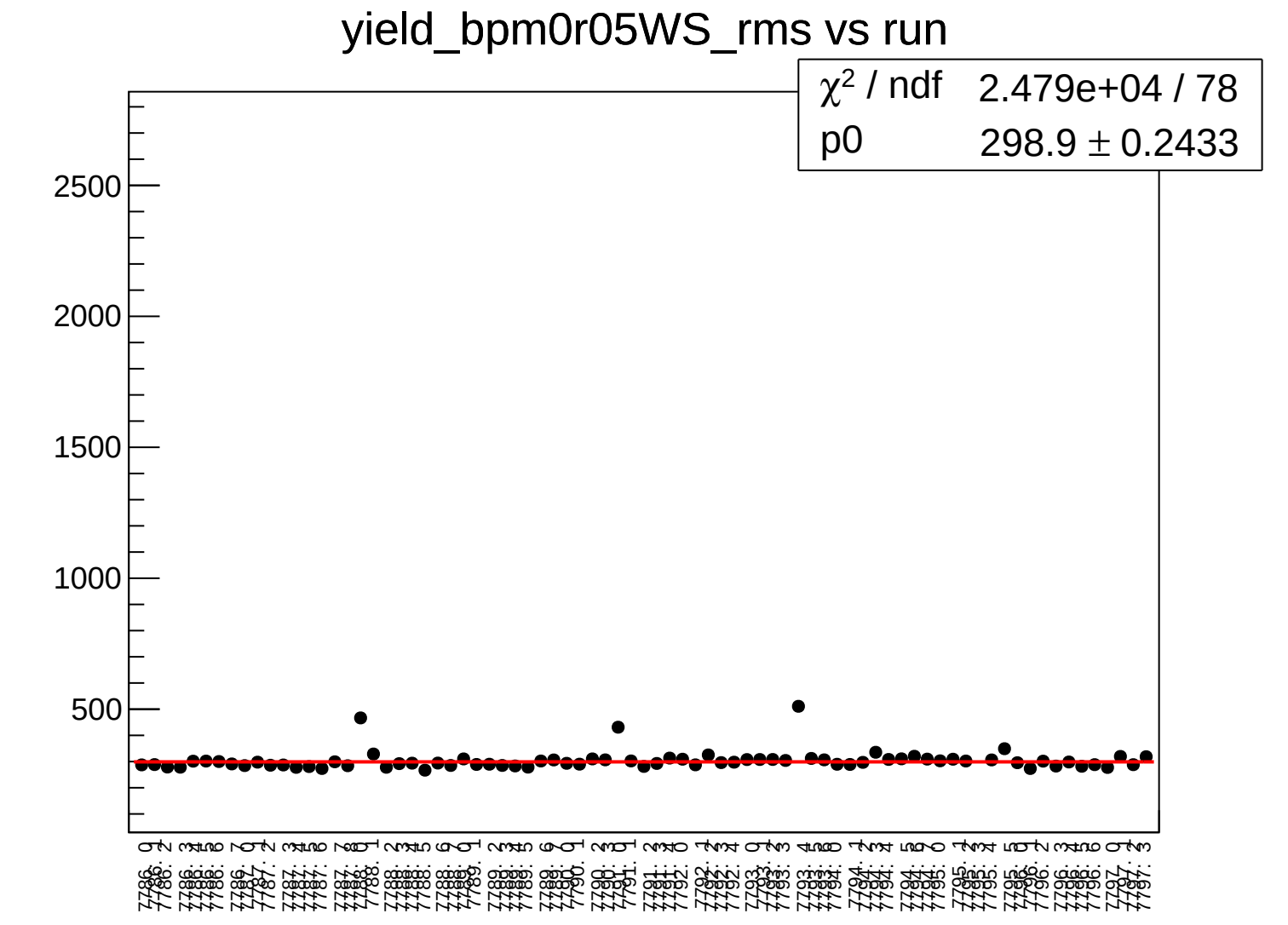

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 4.178e+05 / 78
p0 1.317e+05 ± 0.4975
133.5
133
132.5
132
131.5
131
130.5
pull
Entries 79
Mean 534.7
Std Dev 0
200
150
100
50
0
−50

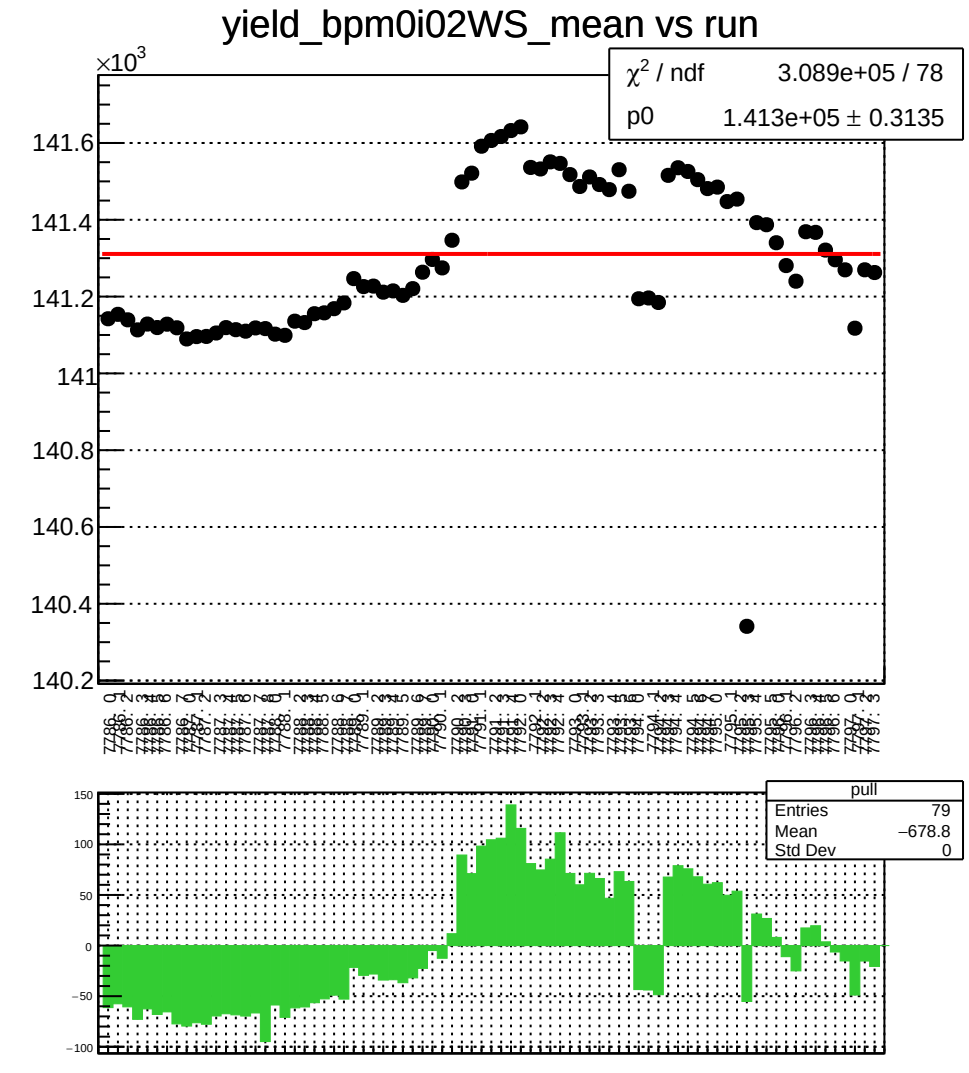

pull1D
Entries 79
Mean 0.7658
Std Dev 5.744
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

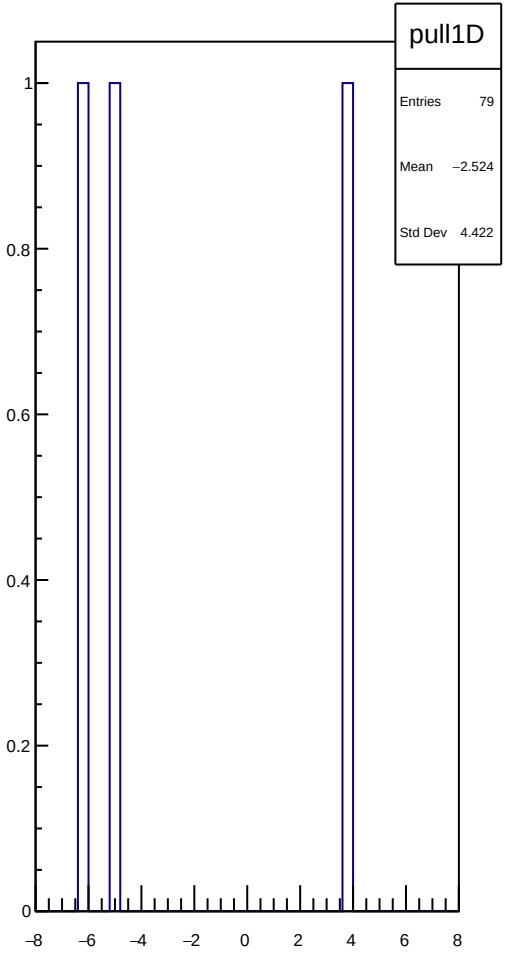

yield_bpm0r03WS_rms vs run
χ² / ndf 3.045e+04 / 78
p0 431.3 ± 0.3518
2500
2000
1500
1000
500

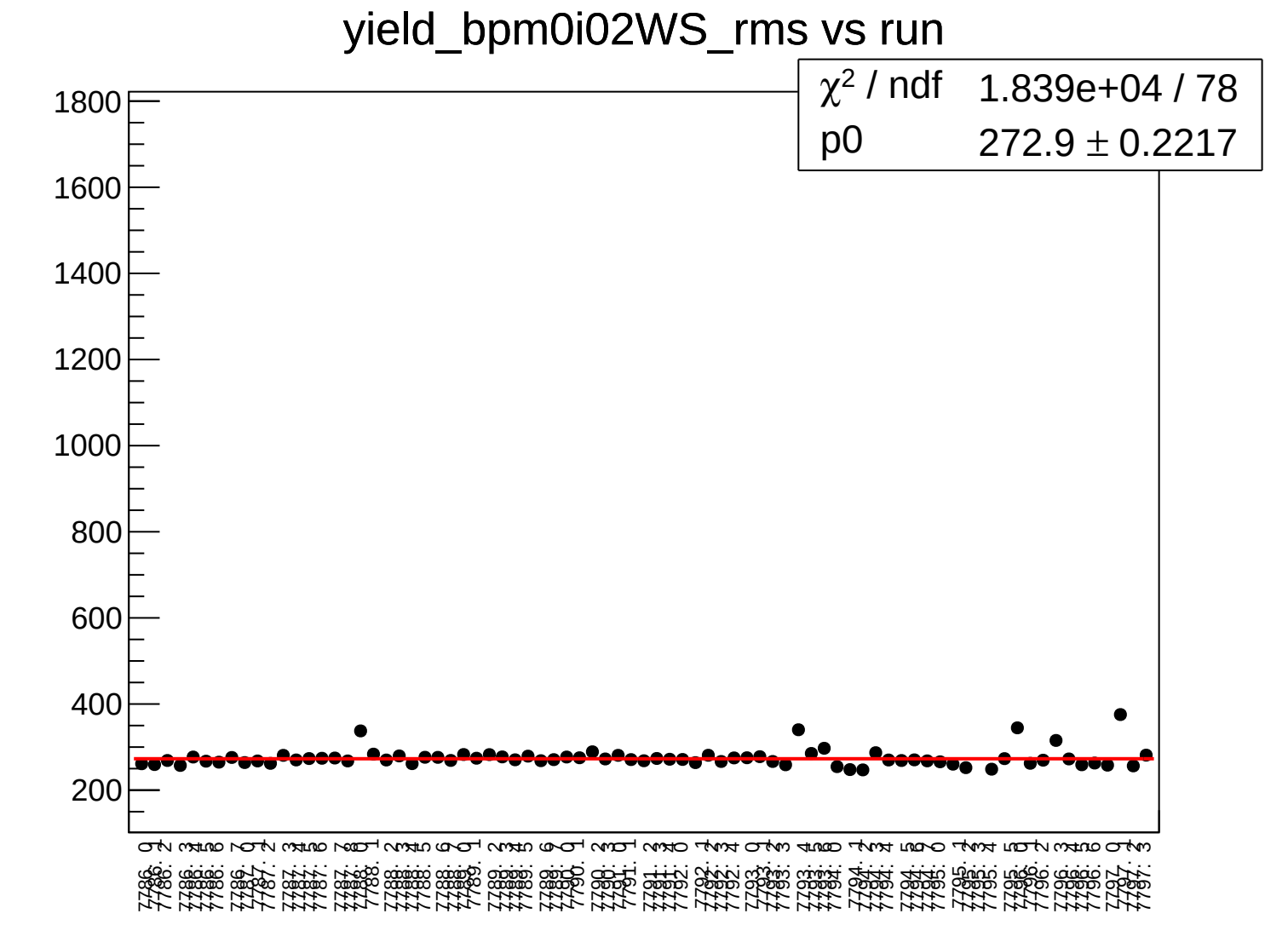

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.178e+05 / 78
p0 1.371e+05 ± 0.3441
137.5
137
136.5
136
135.5
pull
Entries 79
Mean −337
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

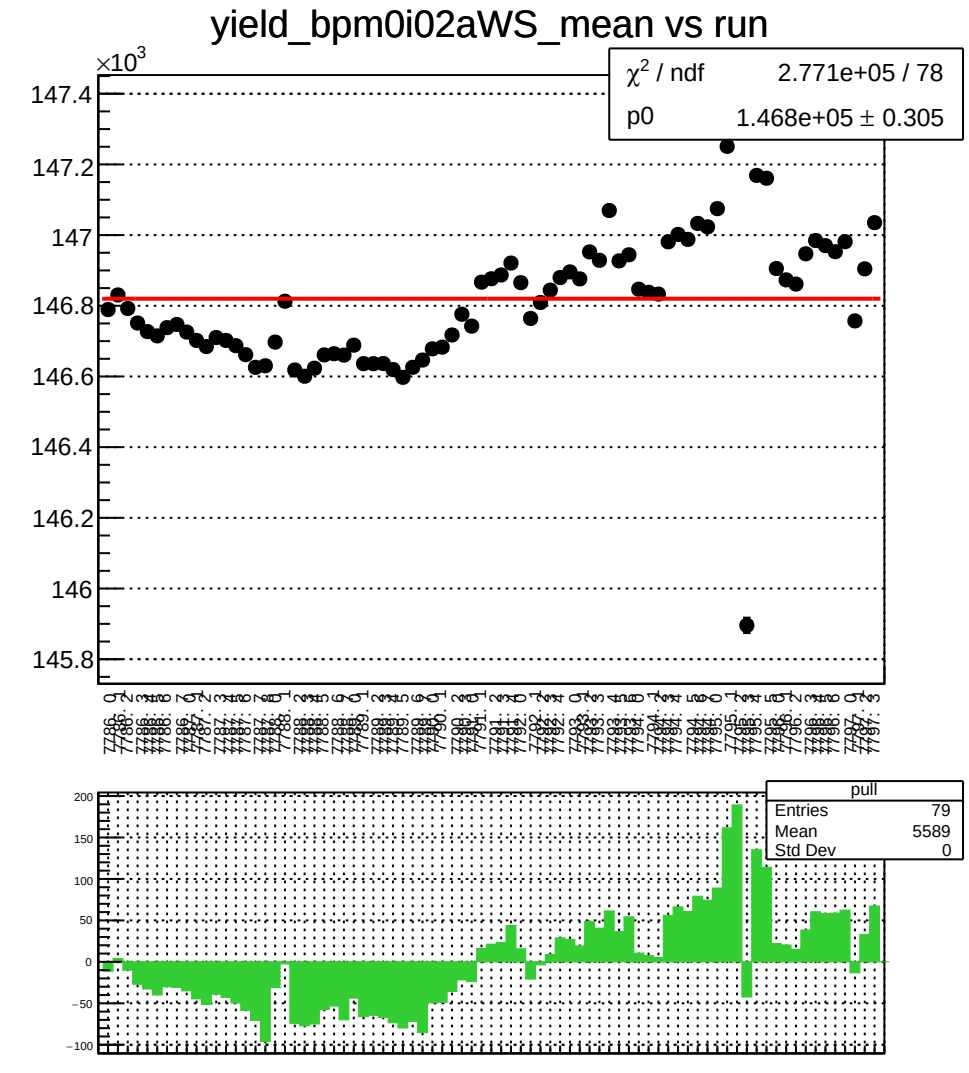

pull1D
Entries 79
Mean 0.048
Std Dev 4.733
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

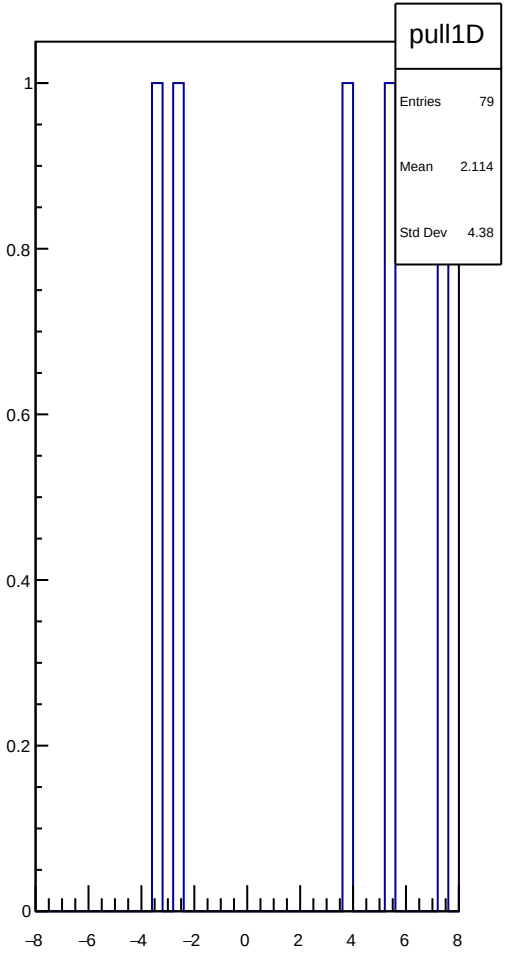

yield_bpm0r05WS_rms vs run
χ² / ndf 2.479e+04 / 78
p0 298.9 ± 0.2433
2500
2000
1500
1000
500

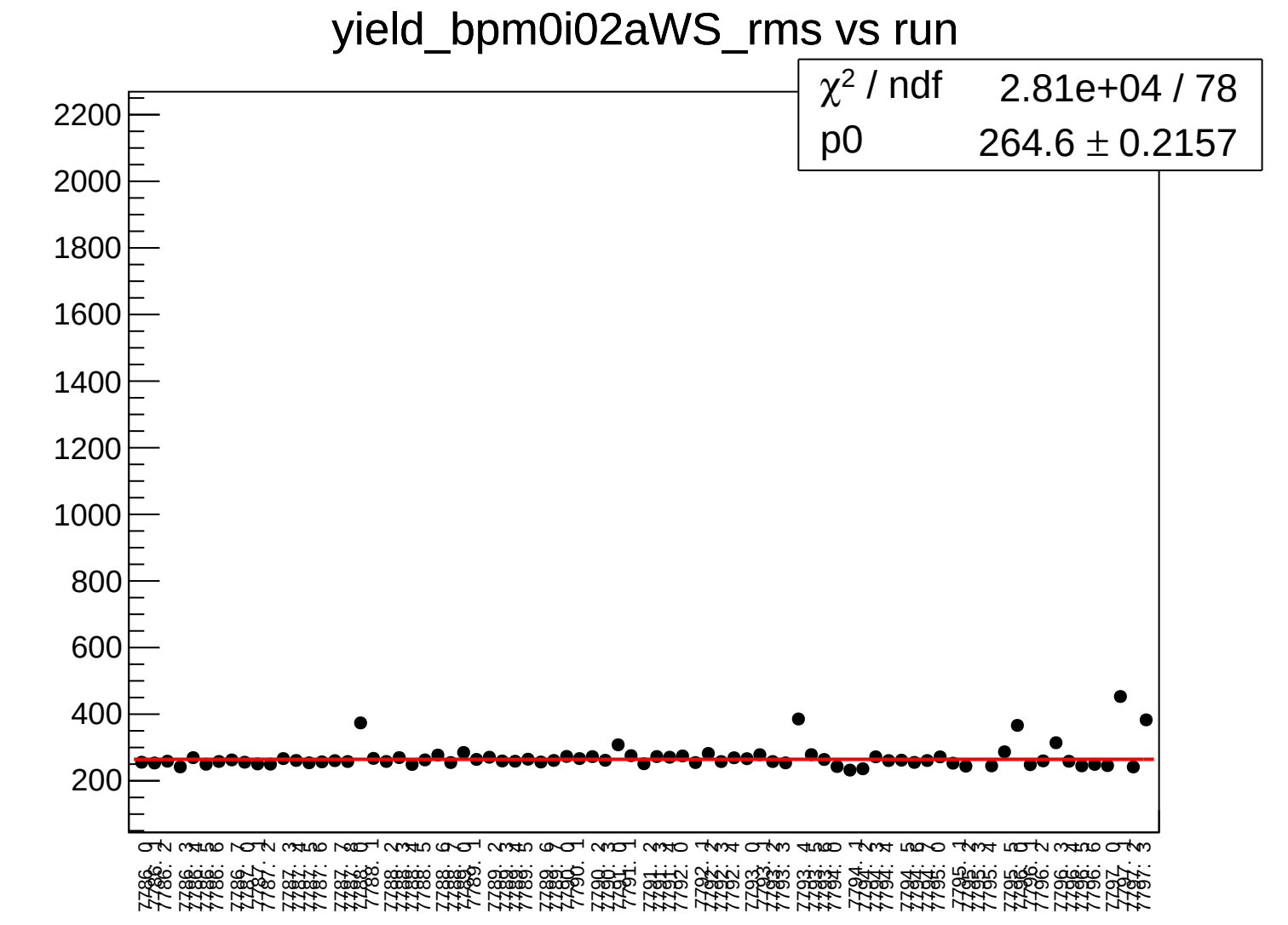

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 3.089e+05 / 78
p0 1.413e+05 ± 0.3135
141.6
141.4
141.2
141
140.8
140.6
140.4
140.2
pull
Entries 79
Mean −678.8
Std Dev 0
150
100
50
0
−50
−100

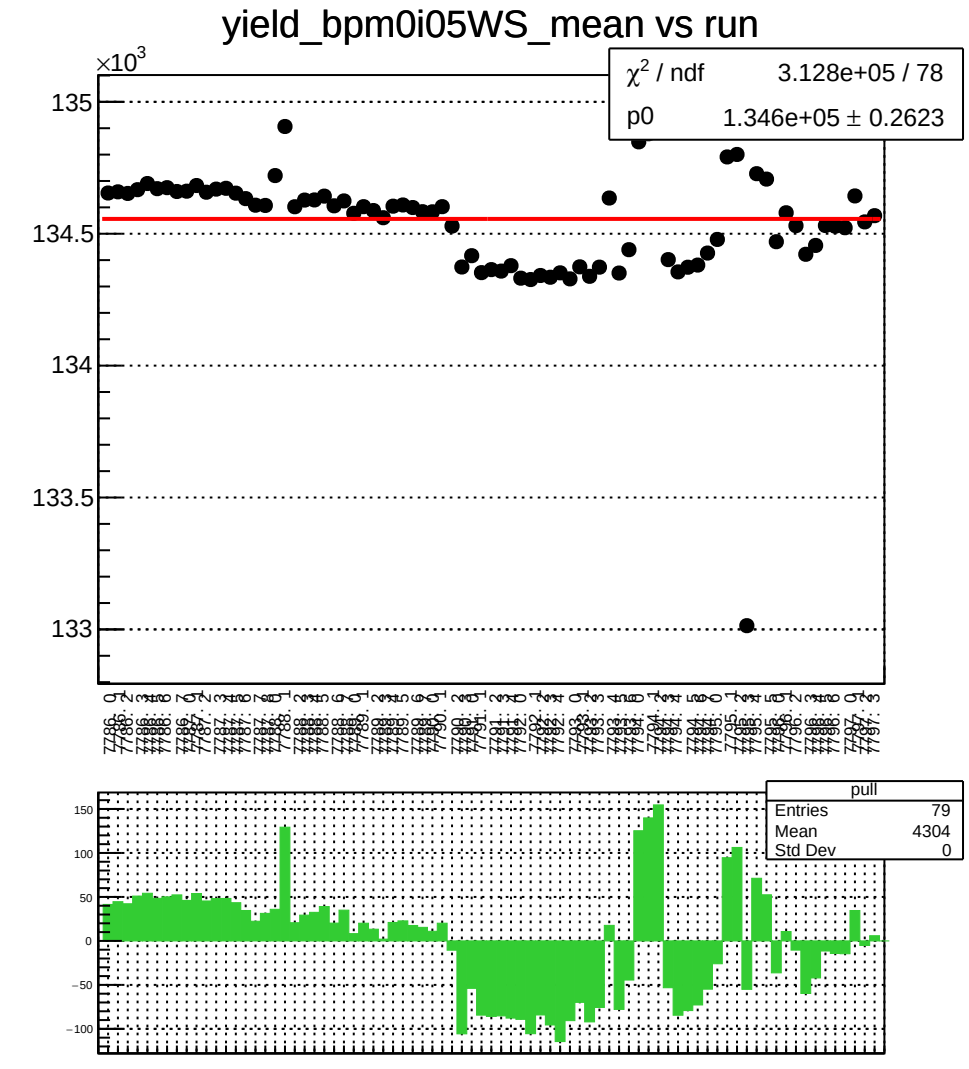

pull1D
Entries 79
Mean −2.524
Std Dev 4.422
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

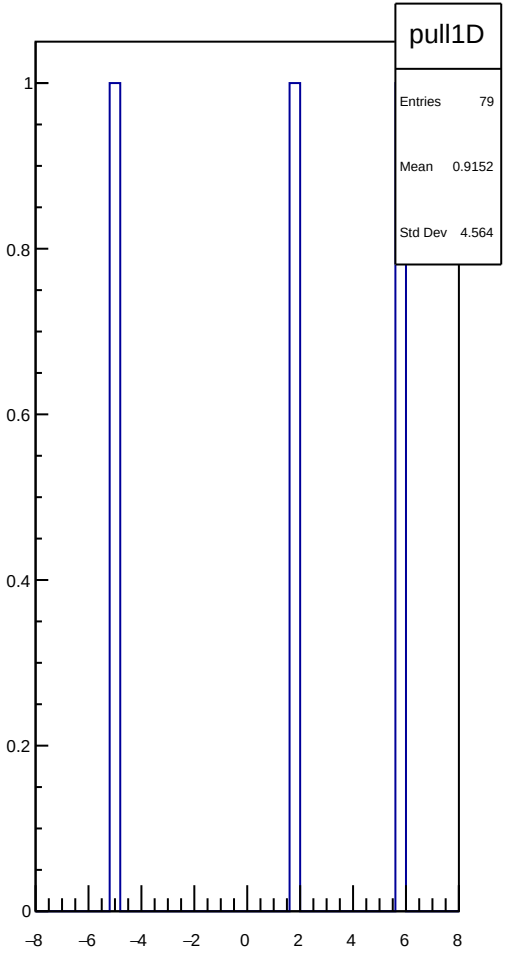

yield_bpm0i02WS_rms vs run
χ² / ndf 1.839e+04 / 78
p0 272.9 ± 0.2217
1800
1600
1400
1200
1000
800
600
400
200

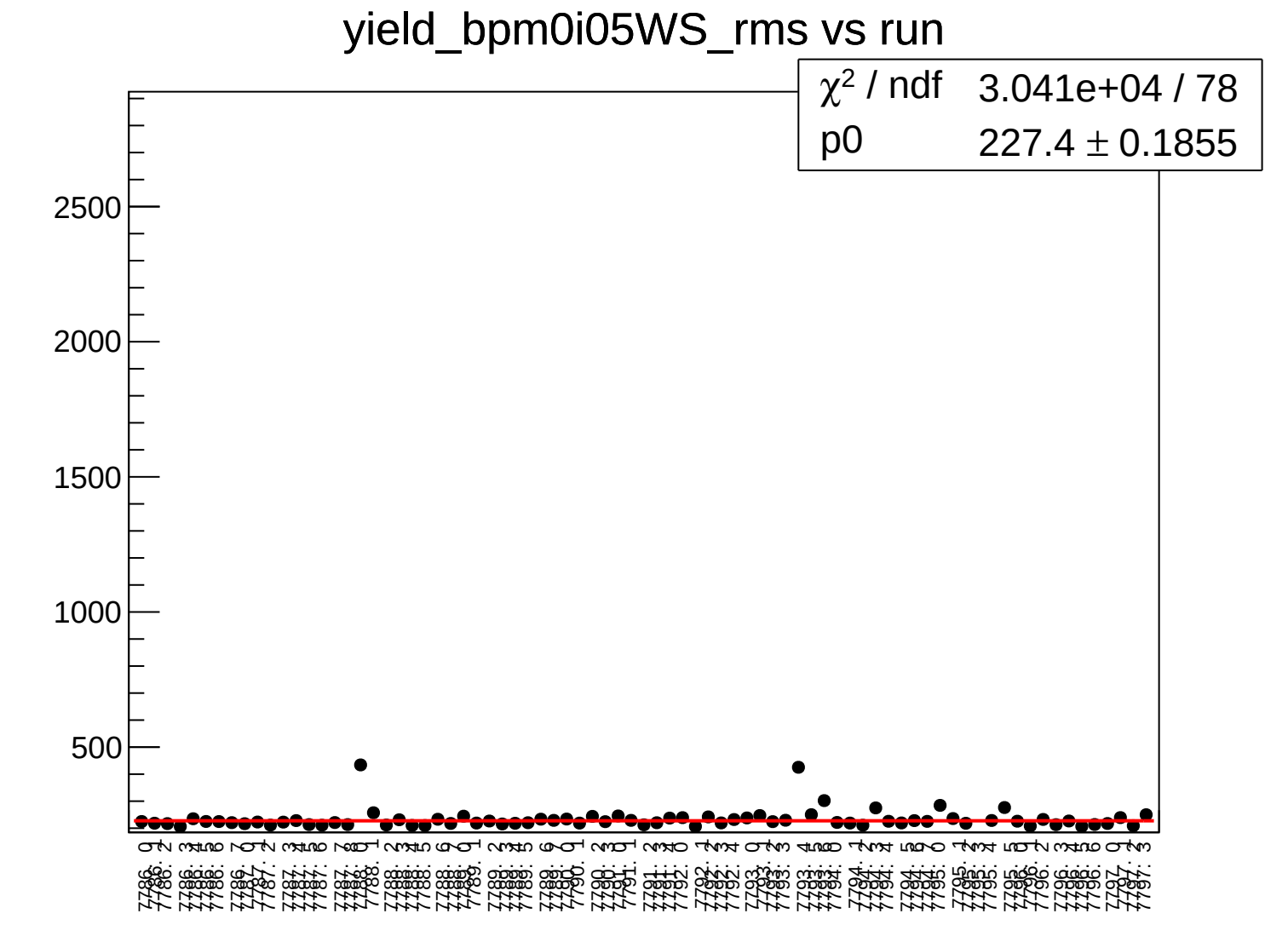

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.771e+05 / 78
p0 1.468e+05 ± 0.305
147.4
147.2
147
146.8
146.6
146.4
146.2
146
145.8
pull
Entries 79
Mean 5589
Std Dev 0
200
150
100
50
0
−50
−100

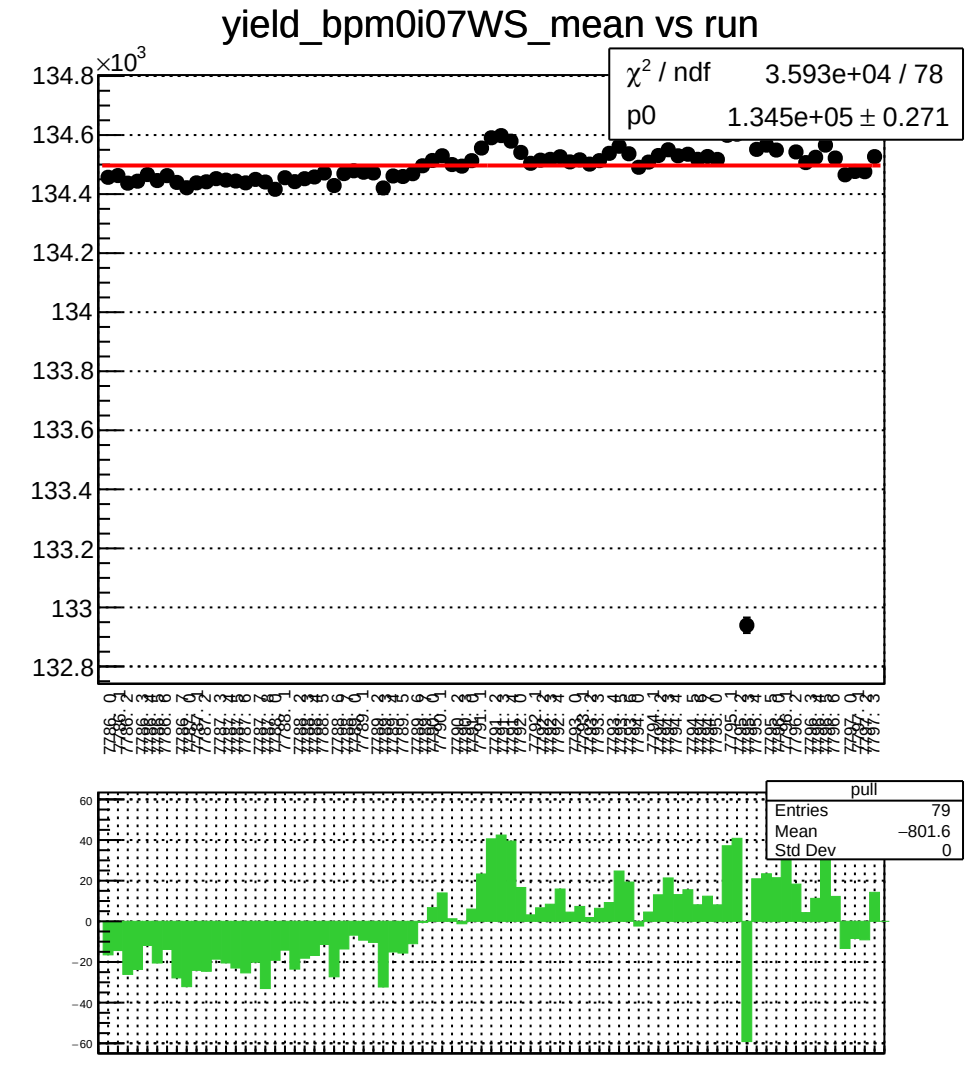

pull1D
Entries 79
Mean 2.114
Std Dev 4.38
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

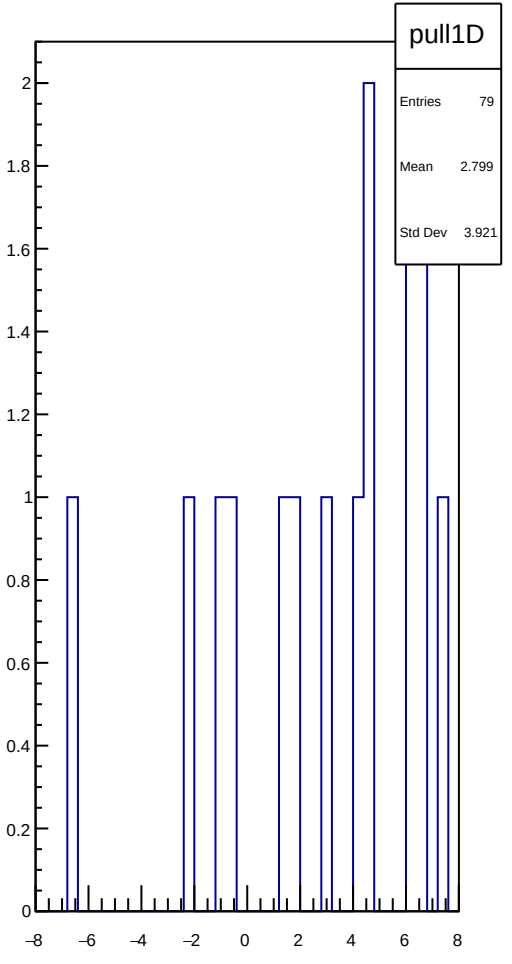

yield_bpm0i02aWS_rms vs run
χ² / ndf 2.81e+04 / 78
p0 264.6 ± 0.2157
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

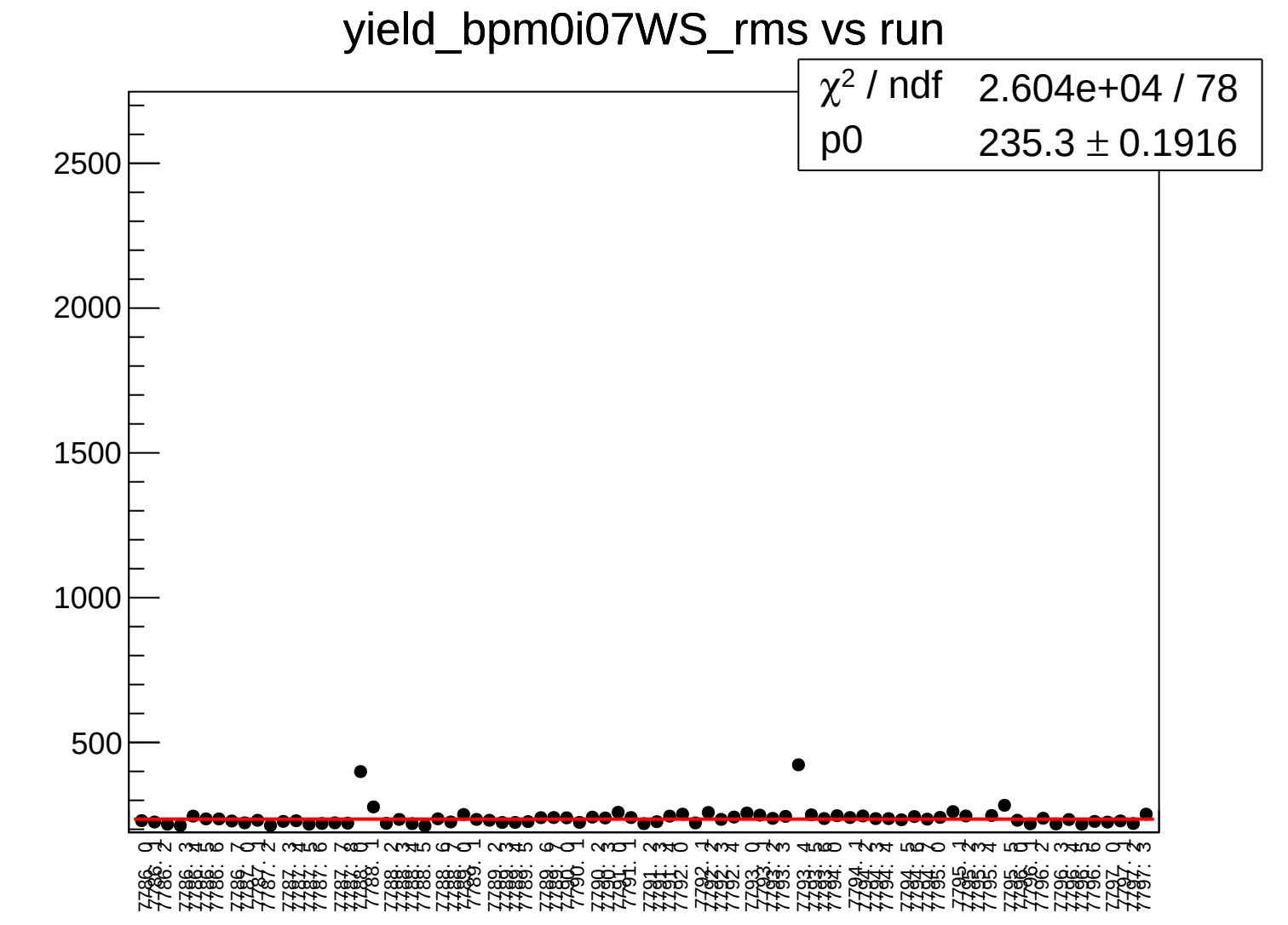

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 3.128e+05 / 78
p0 1.346e+05 ± 0.2623
135
134.5
134
133.5
133
pull
Entries 79
Mean 4304
Std Dev 0
150
100
50
0
−50
−100

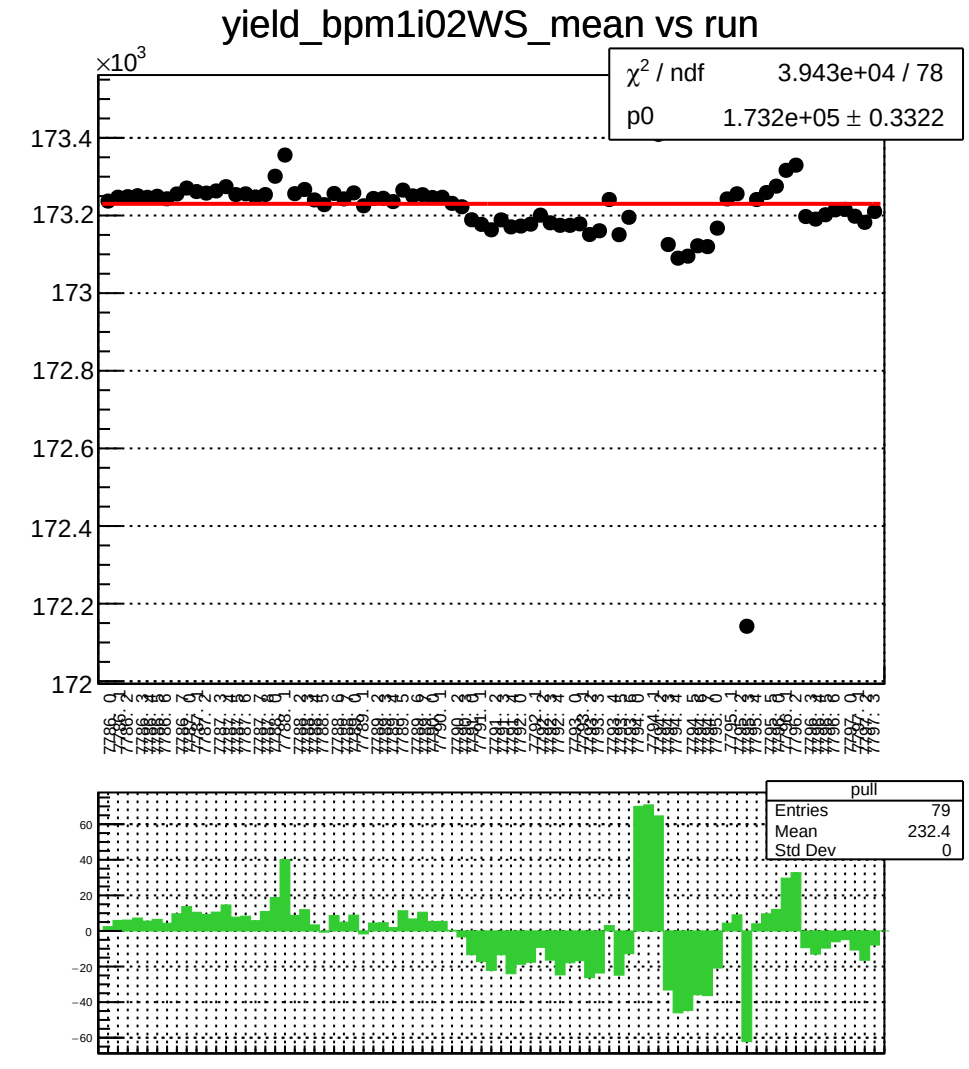

pull1D
Entries 79
Mean 0.9152
Std Dev 4.564
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

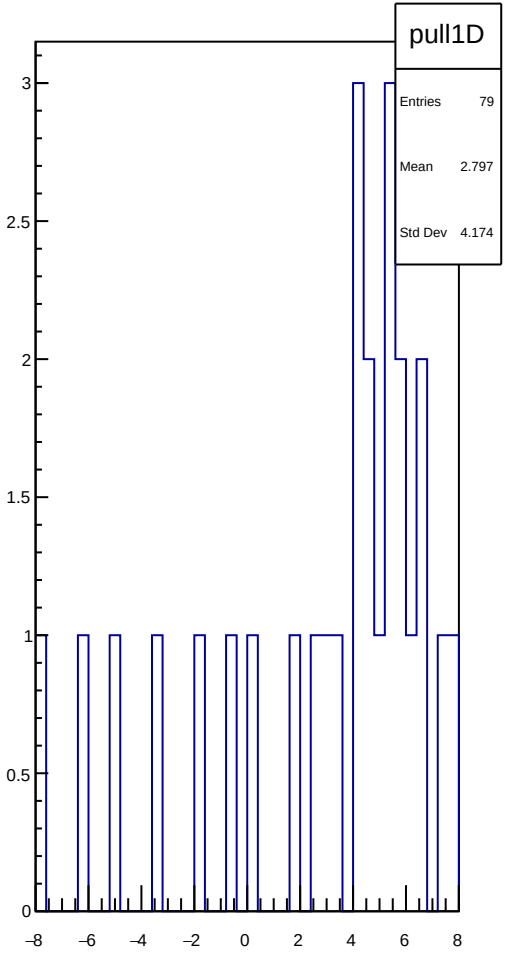

yield_bpm0i05WS_rms vs run
χ^2 / ndf 3.041e+04 / 78
p0 227.4 ± 0.1855
2500
2000
1500
1000
500

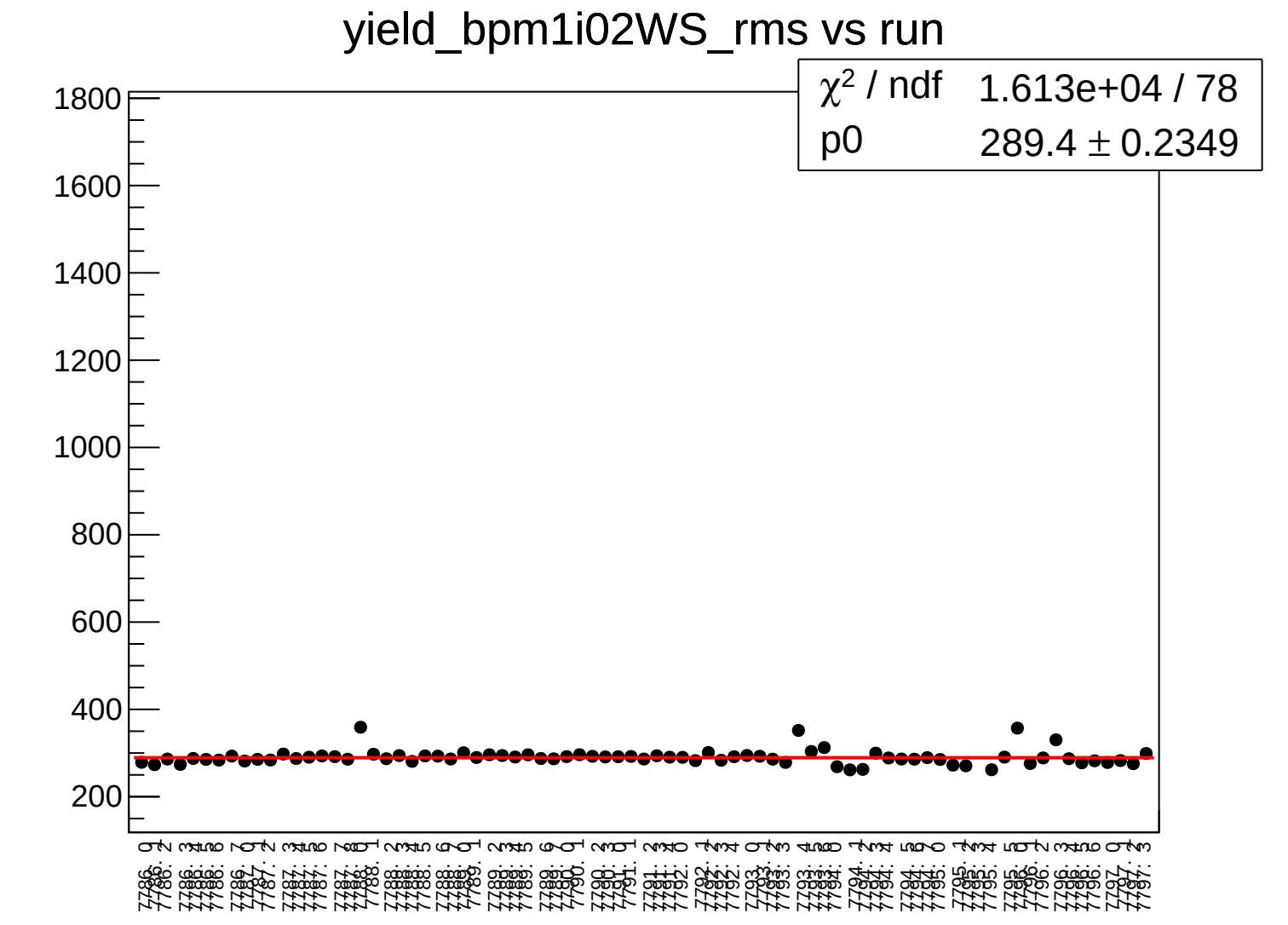

yield_bpm0i07WS_mean vs run
χ² / ndf 3.593e+04 / 78
p0 1.345e+05 ± 0.271
×10³
134.8
134.6
134.4
134.2
134
133.8
133.6
133.4
133.2
133
132.8
pull
Entries 79
Mean −801.6
Std Dev 0
60
40
20
0
−20
−40
−60

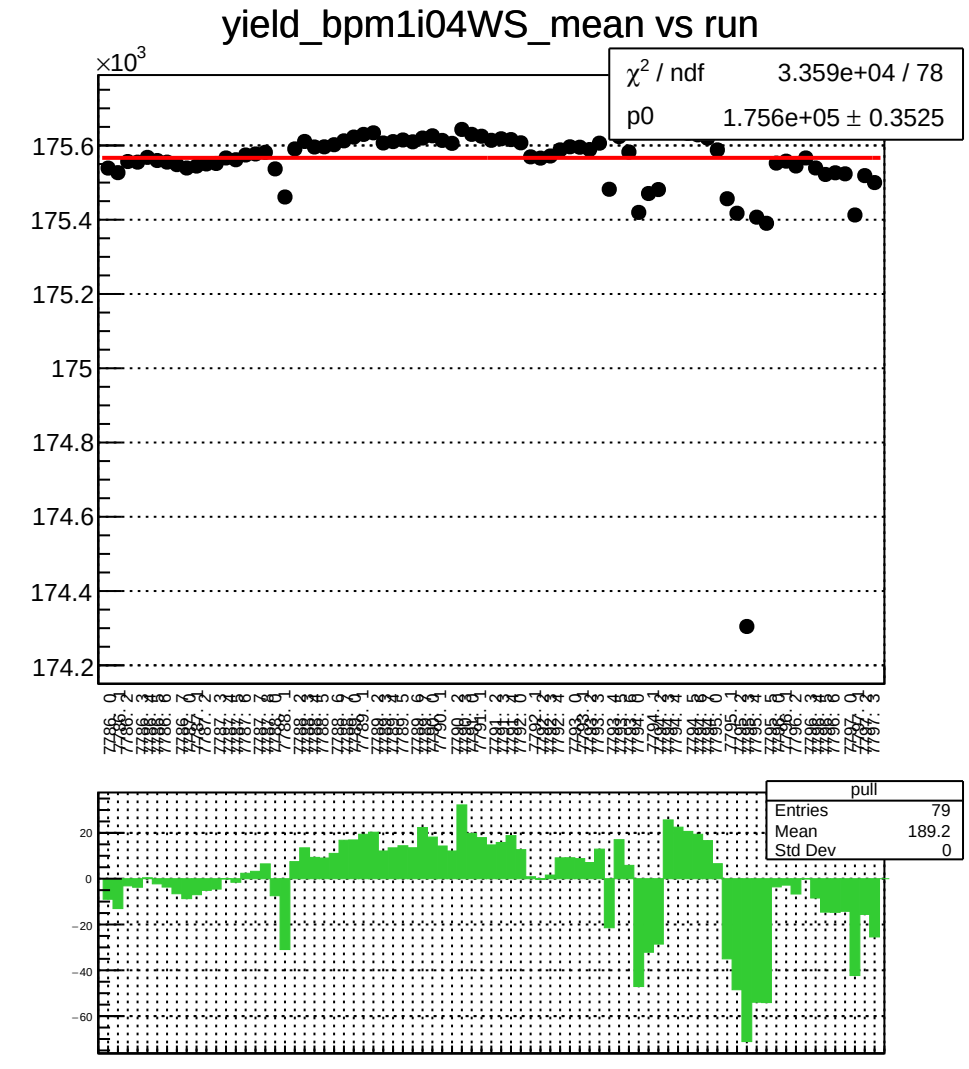

pull1D
Entries 79
Mean 2.799
Std Dev 3.921
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

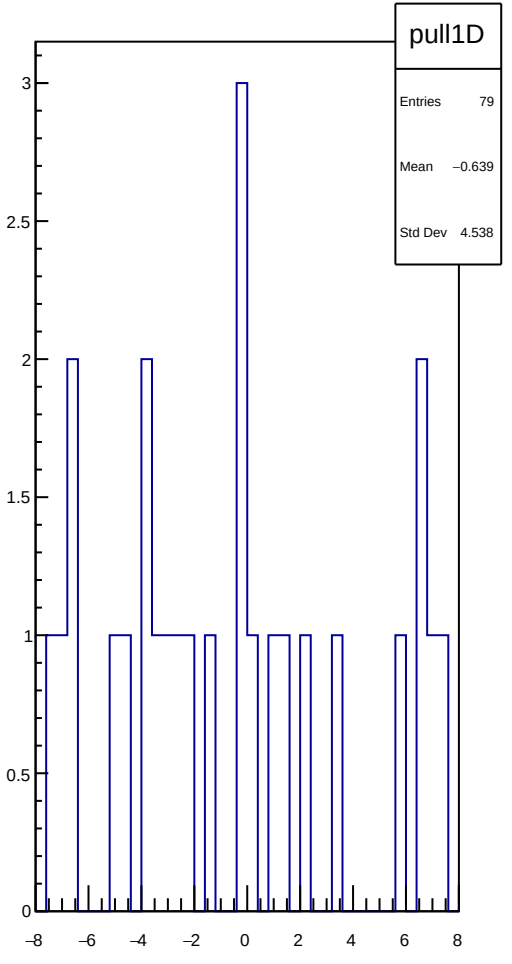

yield_bpm0i07WS_rms vs run
χ^2 / ndf 2.604e+04 / 78
p0 235.3 ± 0.1916
2500
2000
1500
1000
500

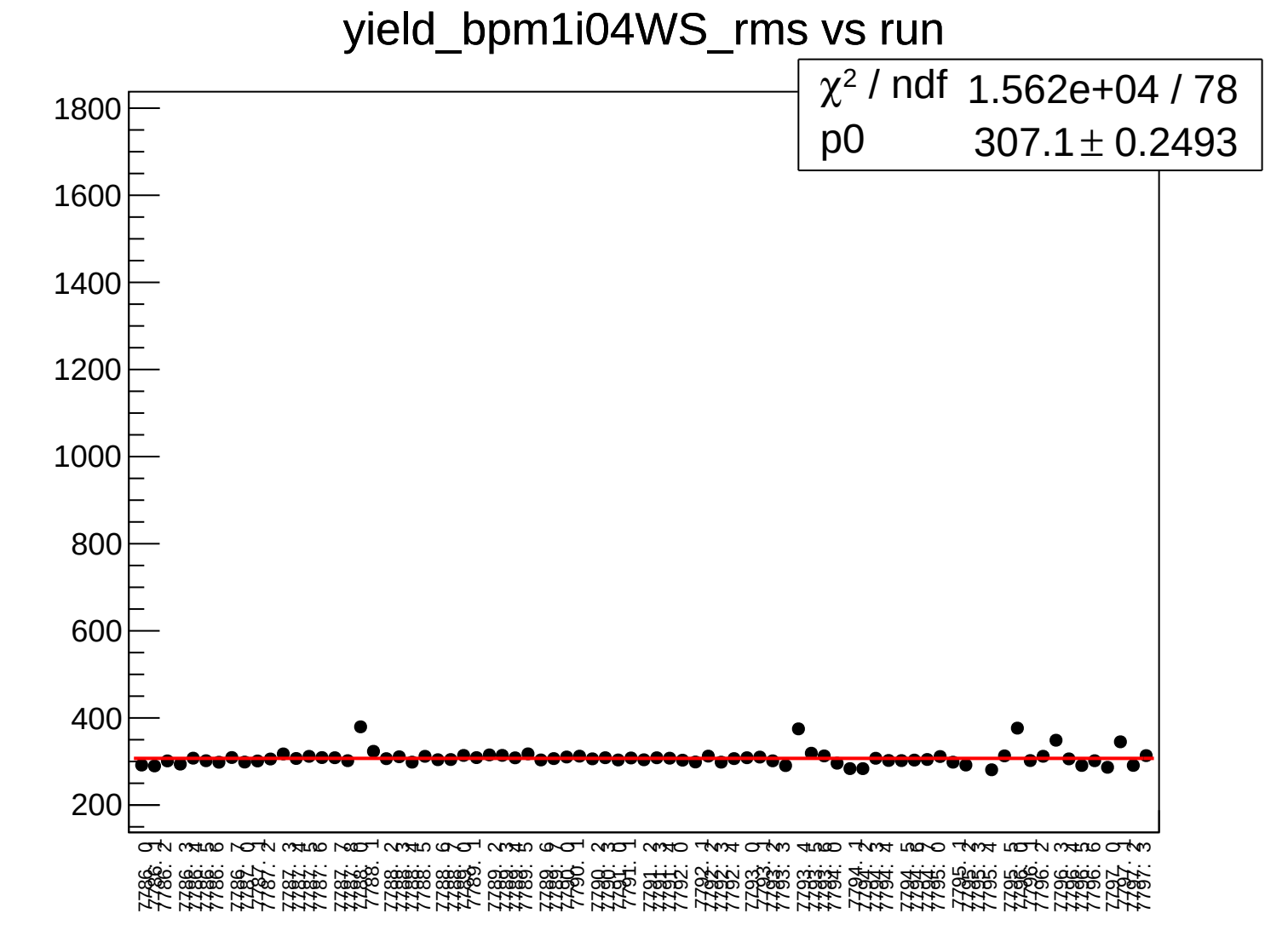

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 3.943e+04 / 78
p0 1.732e+05 ± 0.3322
173.4
173.2
173
172.8
172.6
172.4
172.2
172
pull
Entries 79
Mean 232.4
Std Dev 0
60
40
20
0
−20
−40
−60

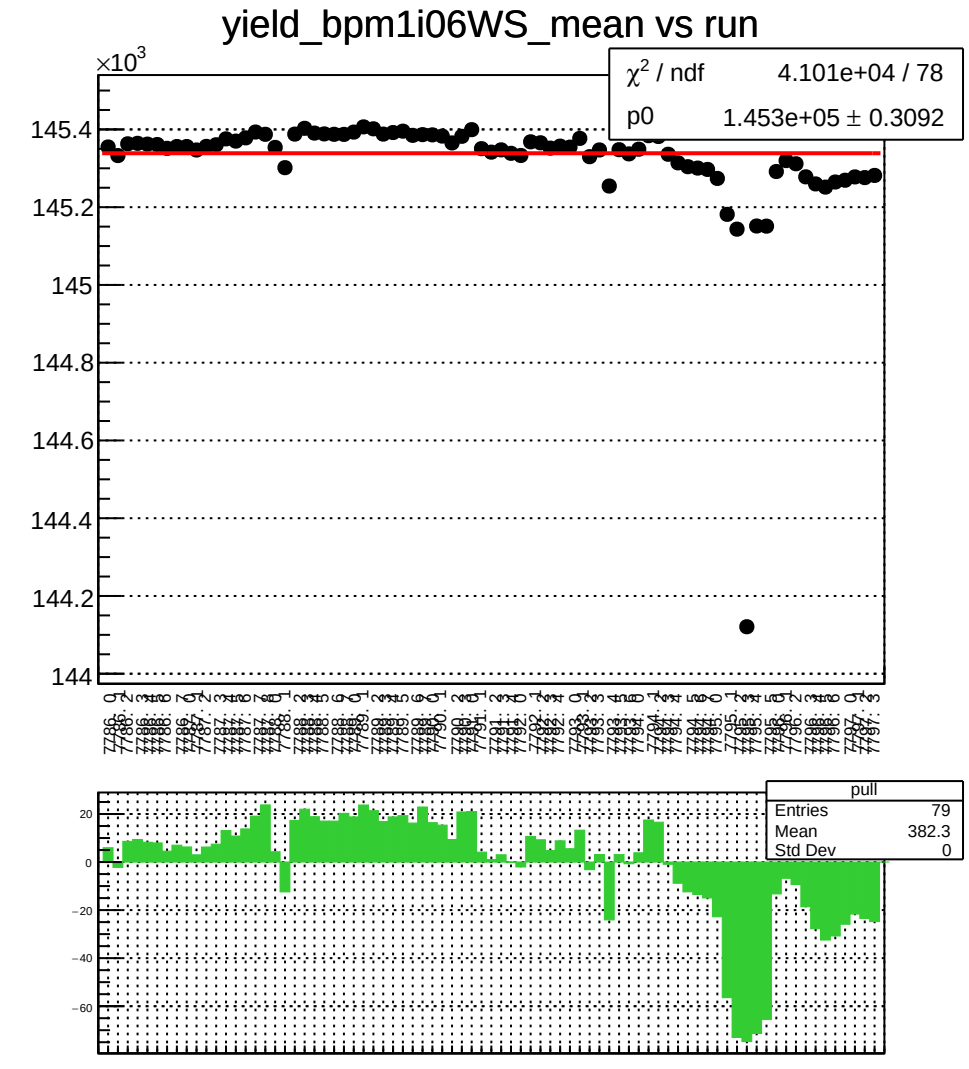

pull1D
Entries 79
Mean 2.797
Std Dev 4.174
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

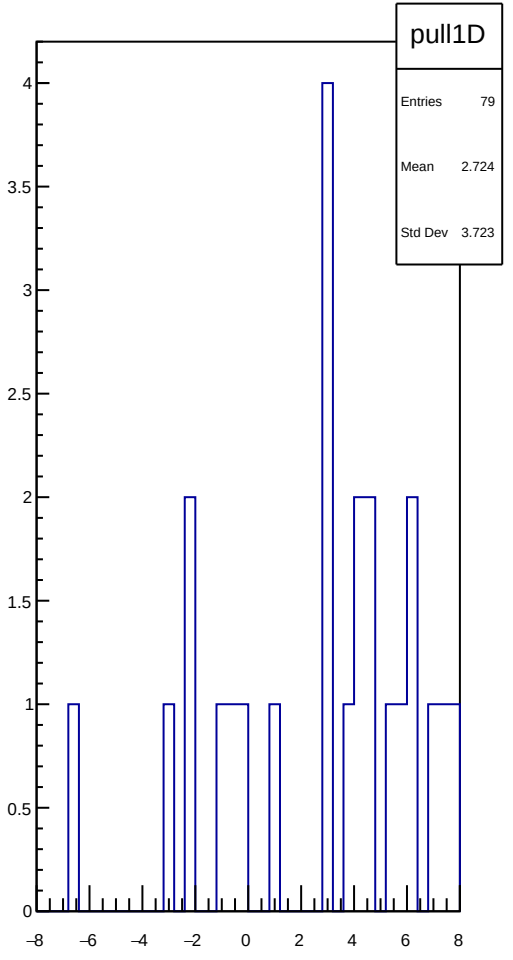

yield_bpm1i02WS_rms vs run
χ^2 / ndf 1.613e+04 / 78
p0 289.4 ± 0.2349
1800
1600
1400
1200
1000
800
600
400
200

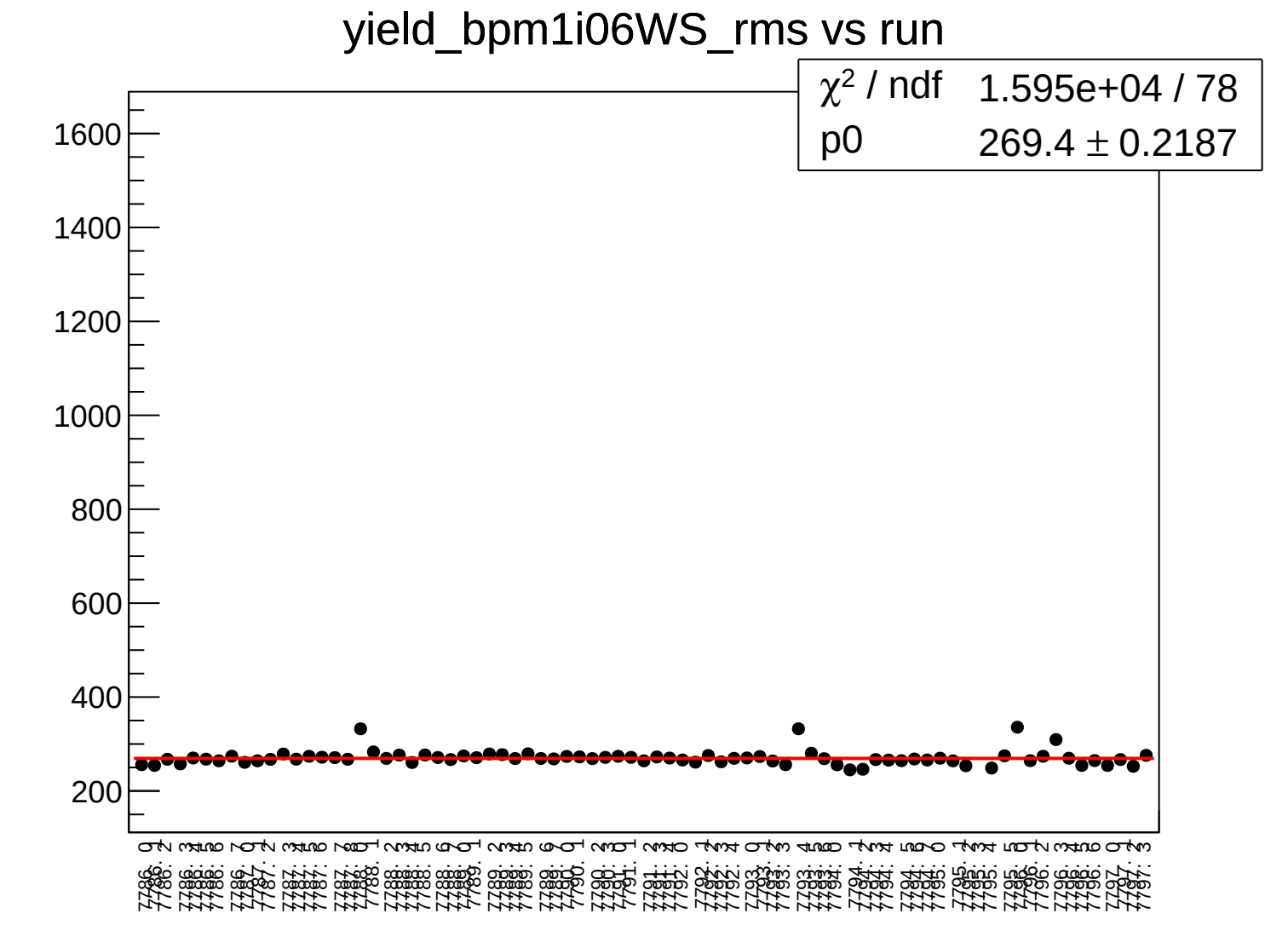

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 3.359e+04 / 78
p0 1.756e+05 ± 0.3525
175.6
175.4
175.2
175
174.8
174.6
174.4
174.2
pull
Entries 79
Mean 189.2
Std Dev 0
20
0
−20
−40
−60

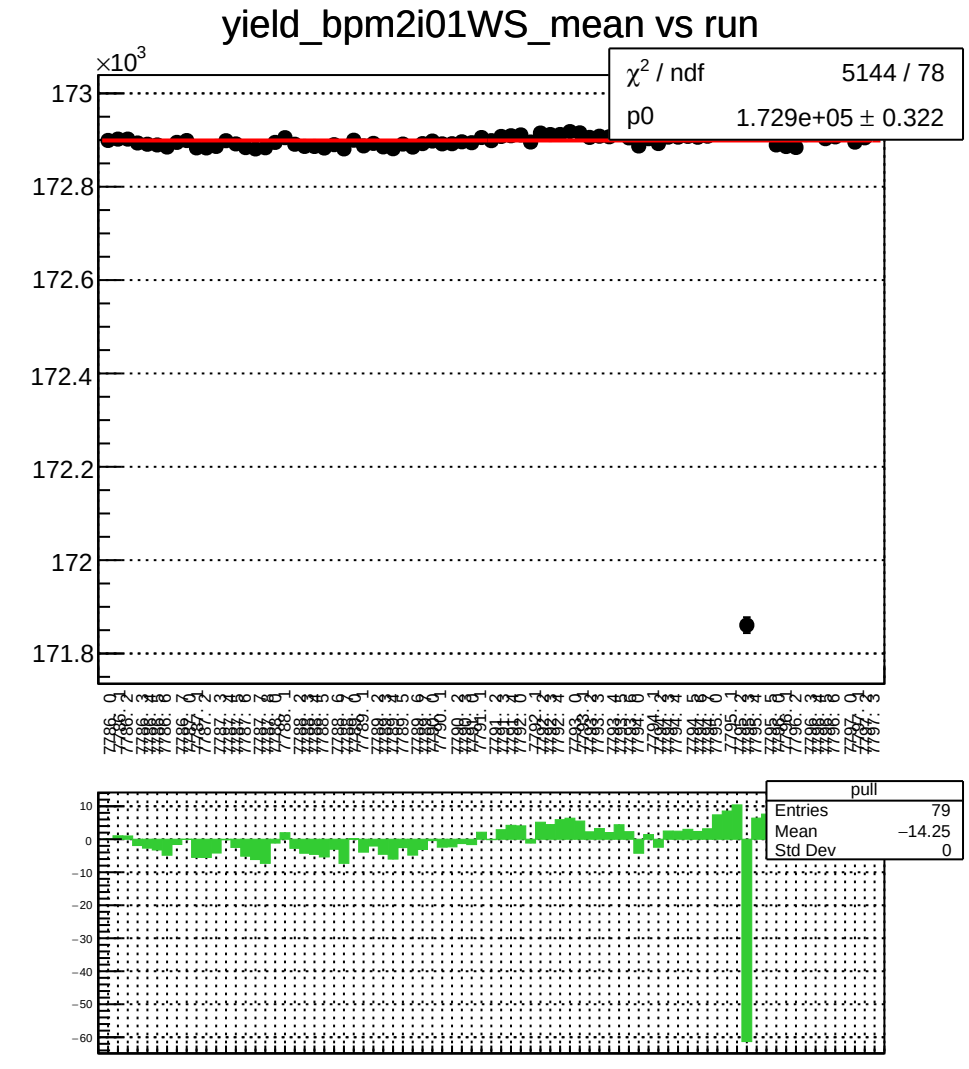

pull1D
Entries 79
Mean −0.639
Std Dev 4.538
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

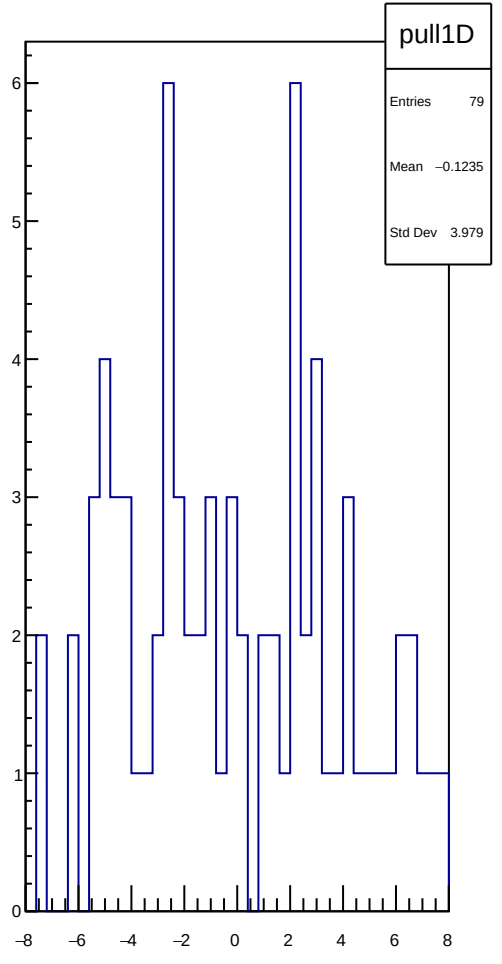

yield_bpm1i04WS_rms vs run
χ² / ndf 1.562e+04 / 78
p0 307.1 ± 0.2493
1800
1600
1400
1200
1000
800
600
400
200

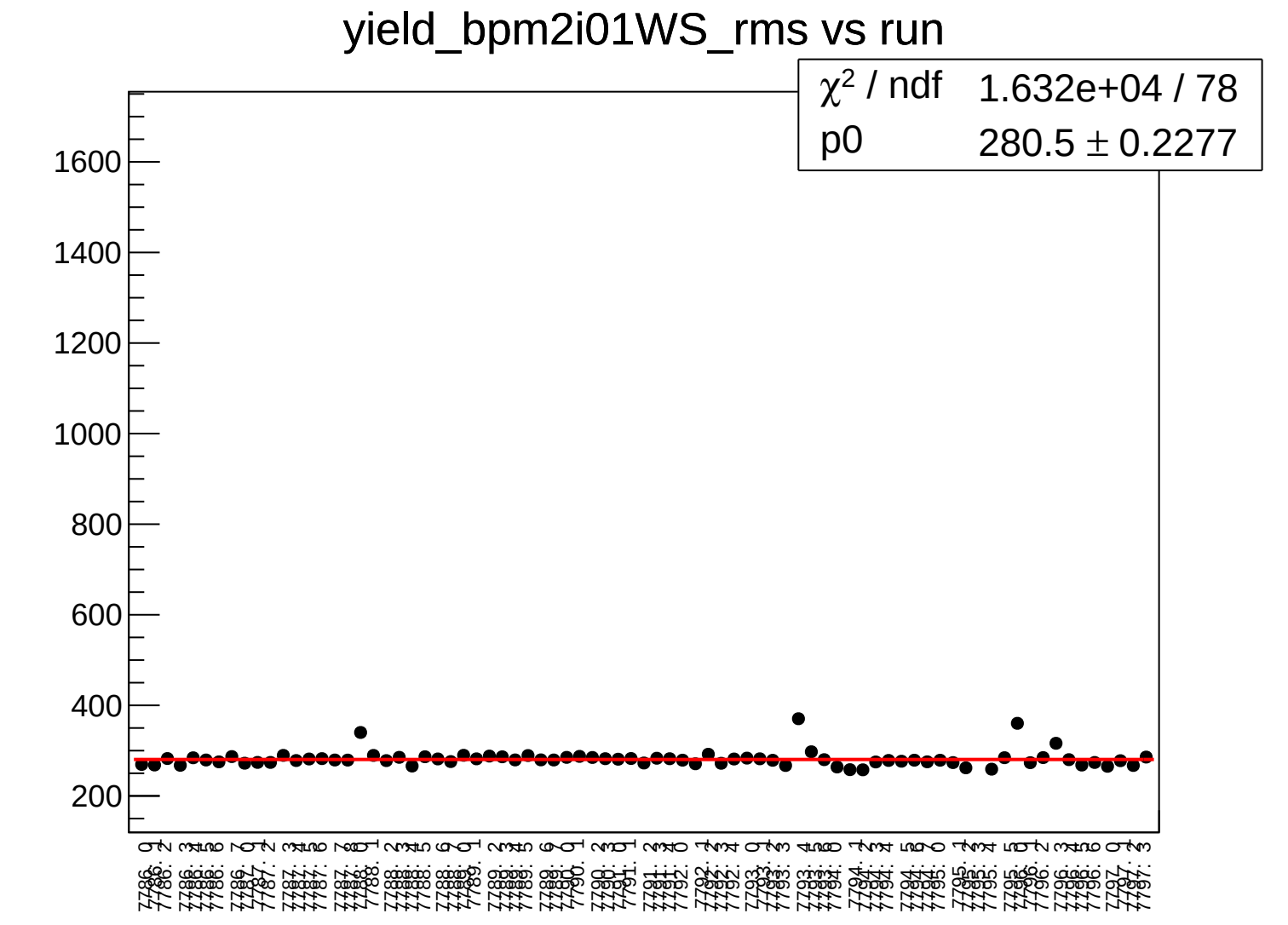

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 4.101e+04 / 78
p0 1.453e+05 ± 0.3092
145.4
145.2
145
144.8
144.6
144.4
144.2
144
pull
Entries 79
Mean 382.3
Std Dev 0
20
0
−20
−40
−60

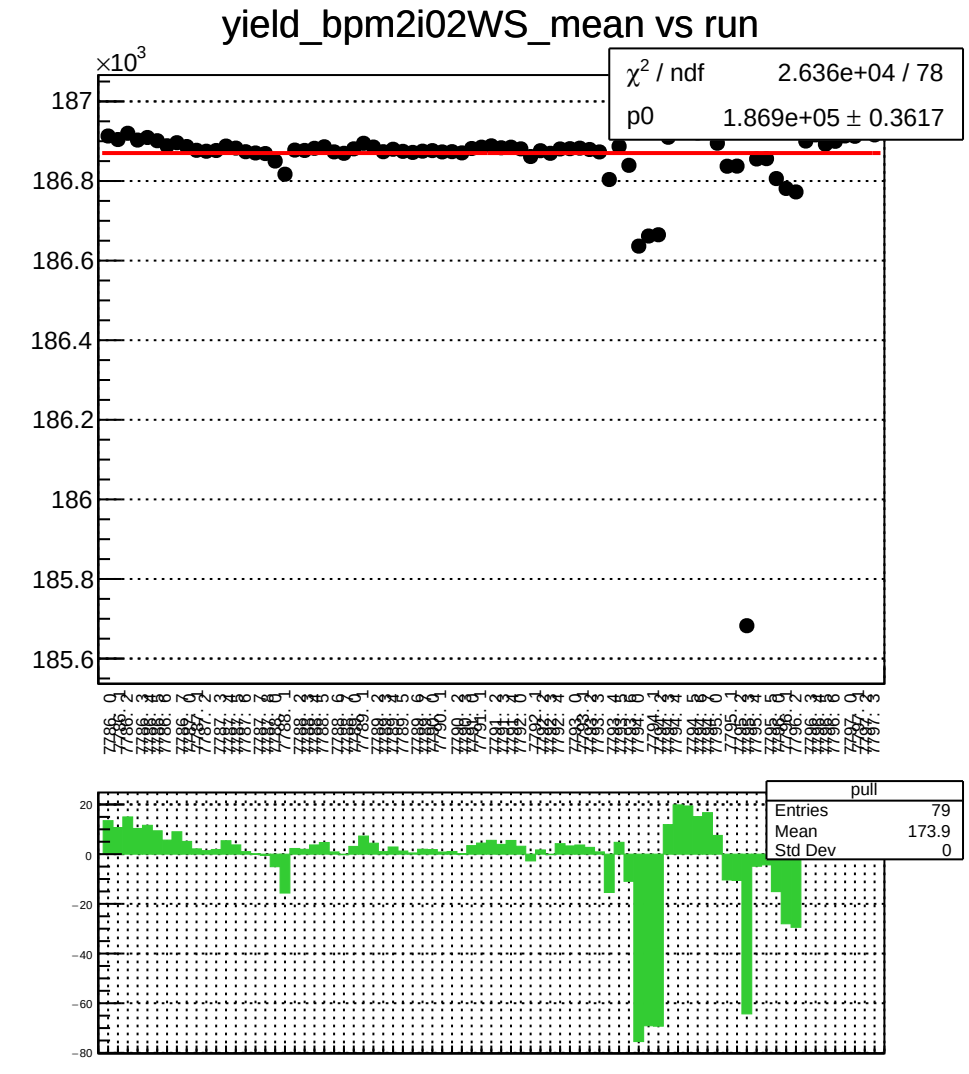

pull1D
Entries 79
Mean 2.724
Std Dev 3.723
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

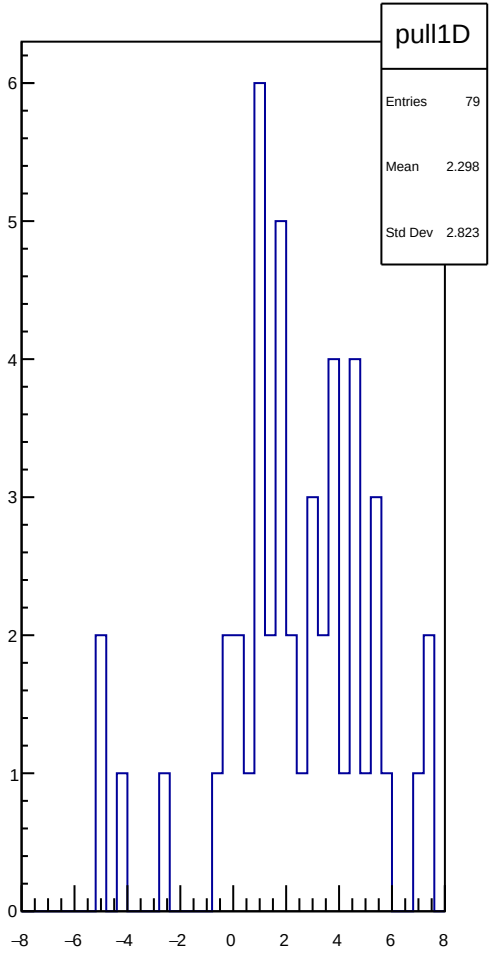

yield_bpm1i06WS_rms vs run
χ² / ndf 1.595e+04 / 78
p0 269.4 ± 0.2187
1600
1400
1200
1000
800
600
400
200

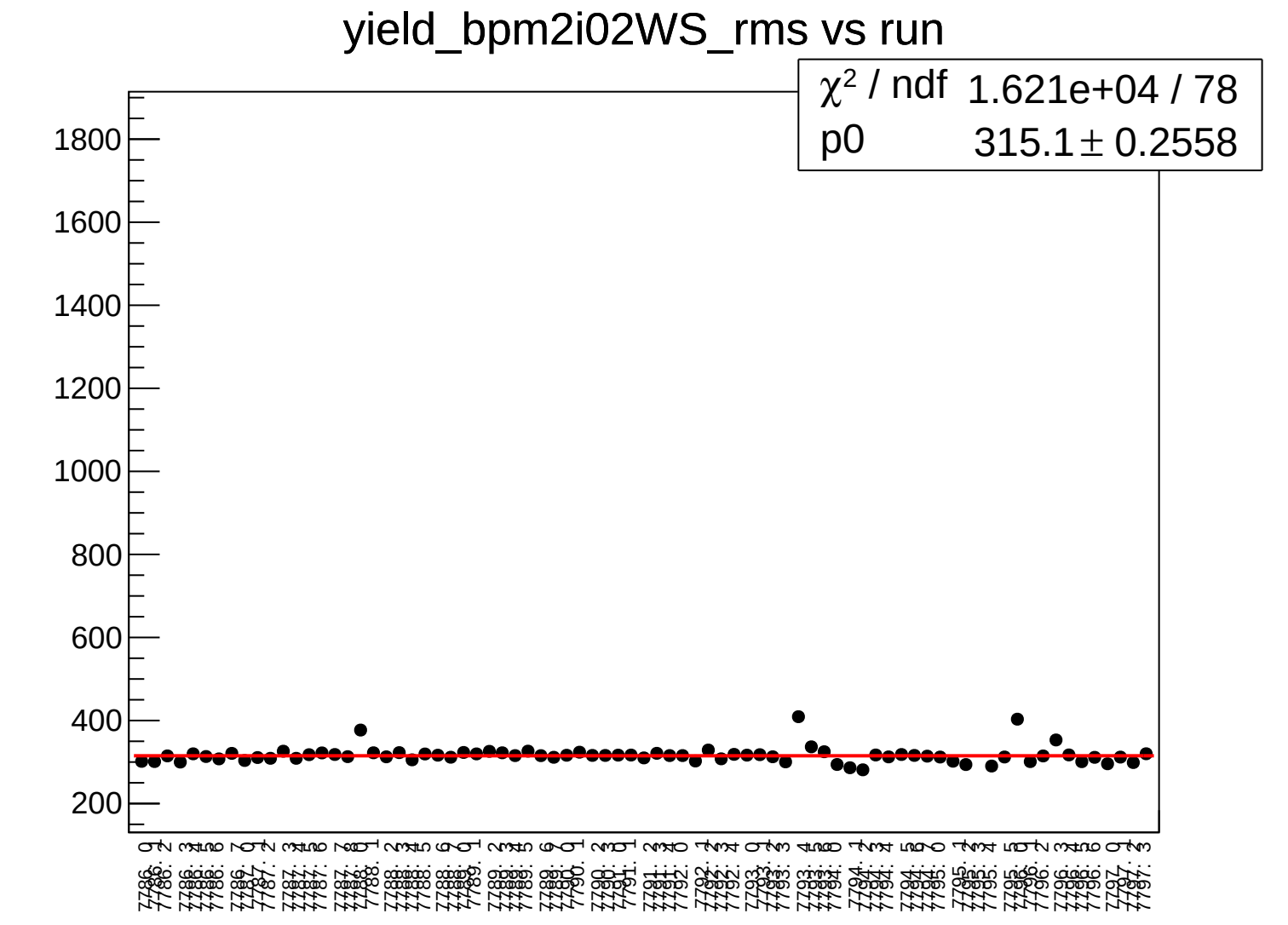

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5144 / 78
p0 1.729e+05 ± 0.322
pull
Entries 79
Mean −14.25
Std Dev 0

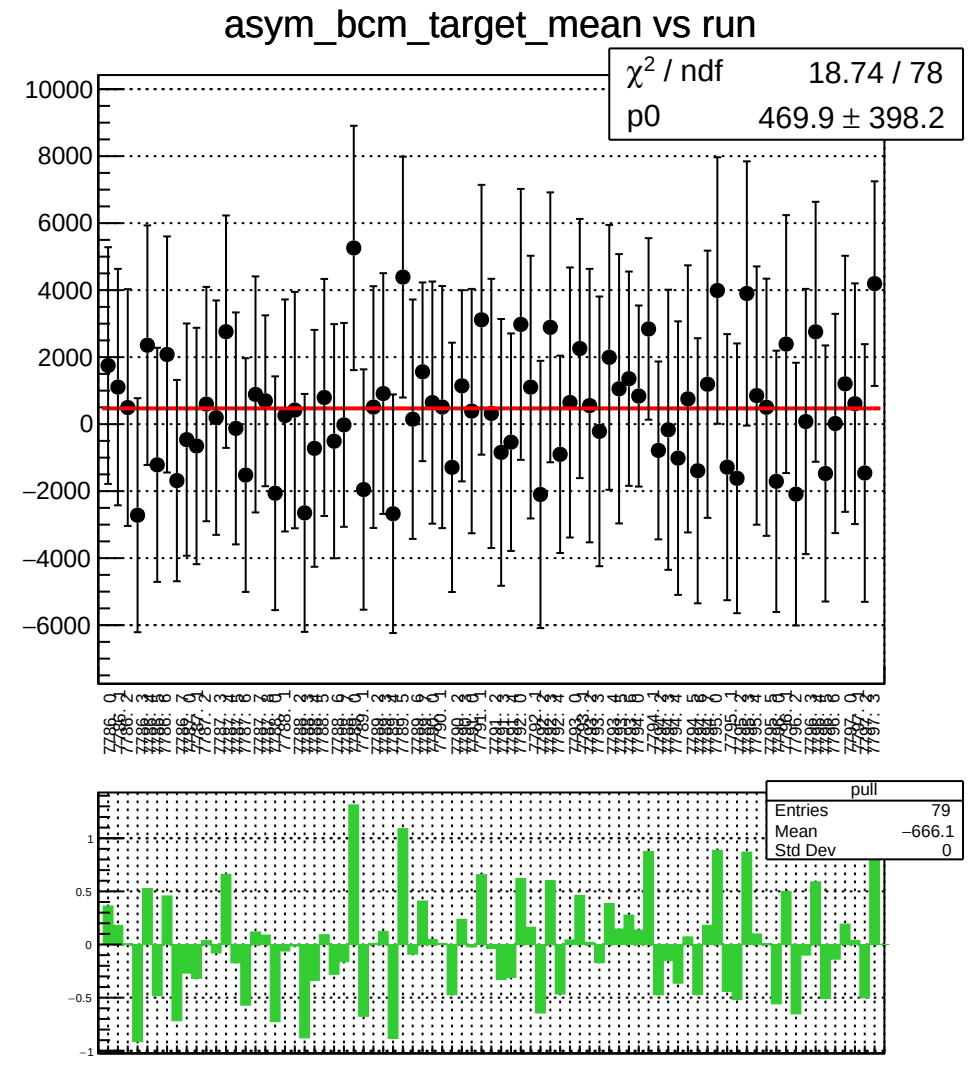

pull1D
Entries 79
Mean −0.1235
Std Dev 3.979

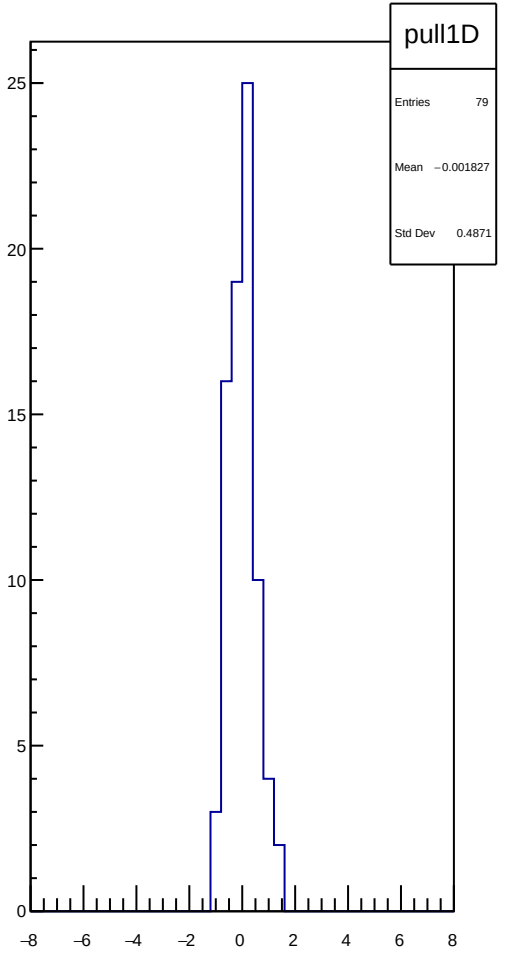

yield_bpm2i01WS_rms vs run
χ² / ndf 1.632e+04 / 78
p0 280.5 ± 0.2277
1600
1400
1200
1000
800
600
400
200

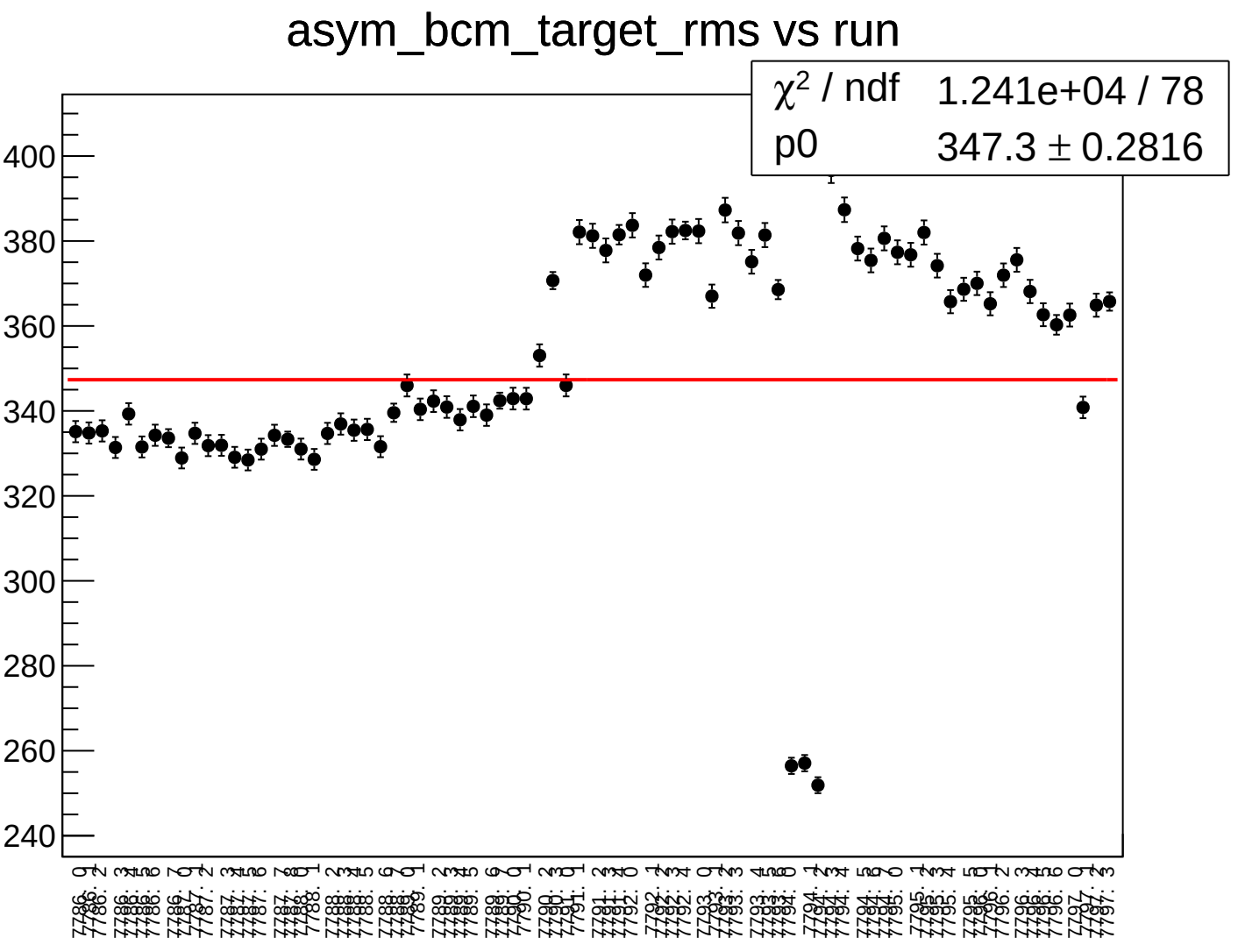

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.636e+04 / 78
p0 1.869e+05 ± 0.3617
187
186.8
186.6
186.4
186.2
186
185.8
185.6
pull
Entries 79
Mean 173.9
Std Dev 0
20
0
−20
−40
−60
−80

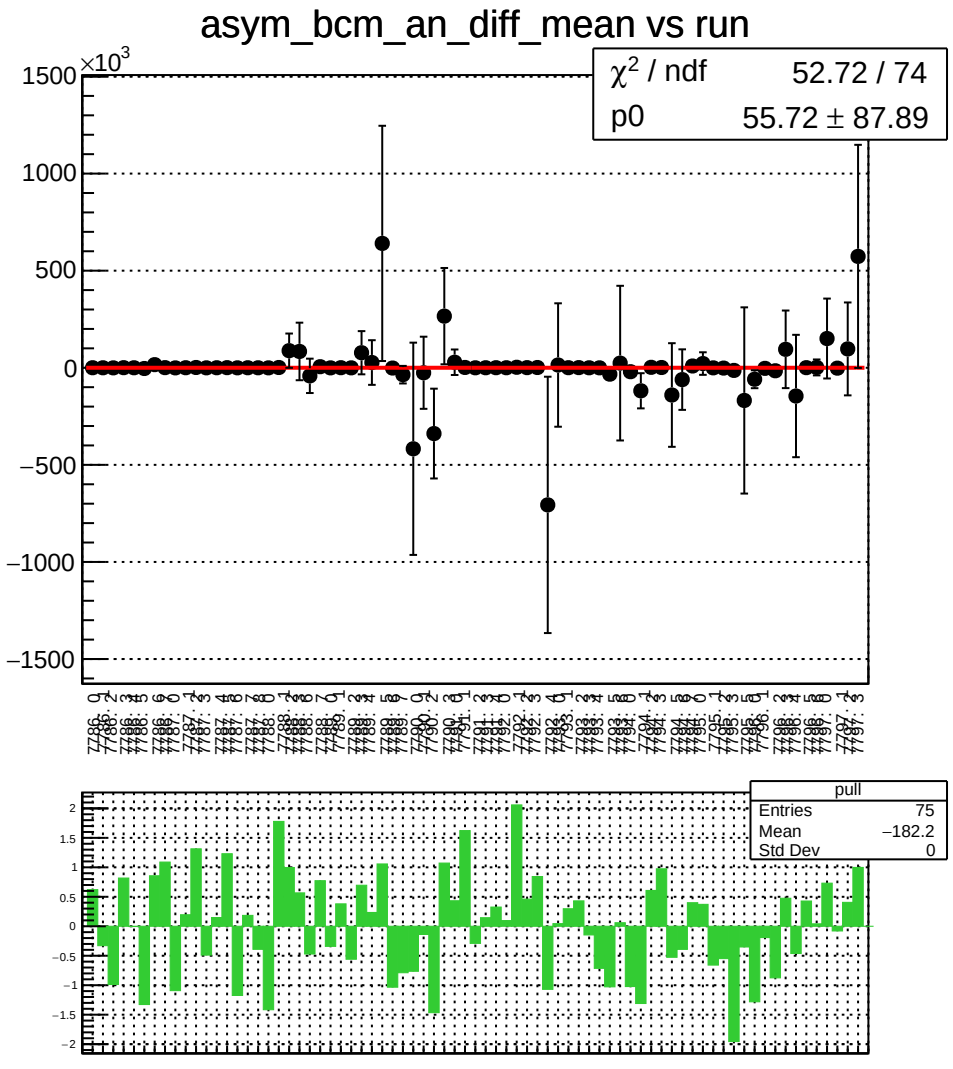

pull1D
Entries 79
Mean 2.298
Std Dev 2.823
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

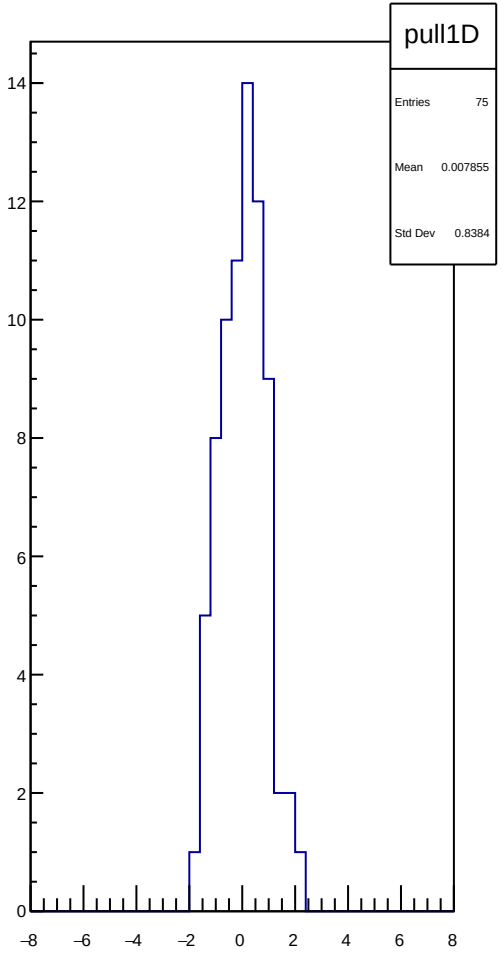

yield_bpm2i02WS_rms vs run
χ² / ndf 1.621e+04 / 78
p0 315.1 ± 0.2558
1800
1600
1400
1200
1000
800
600
400
200

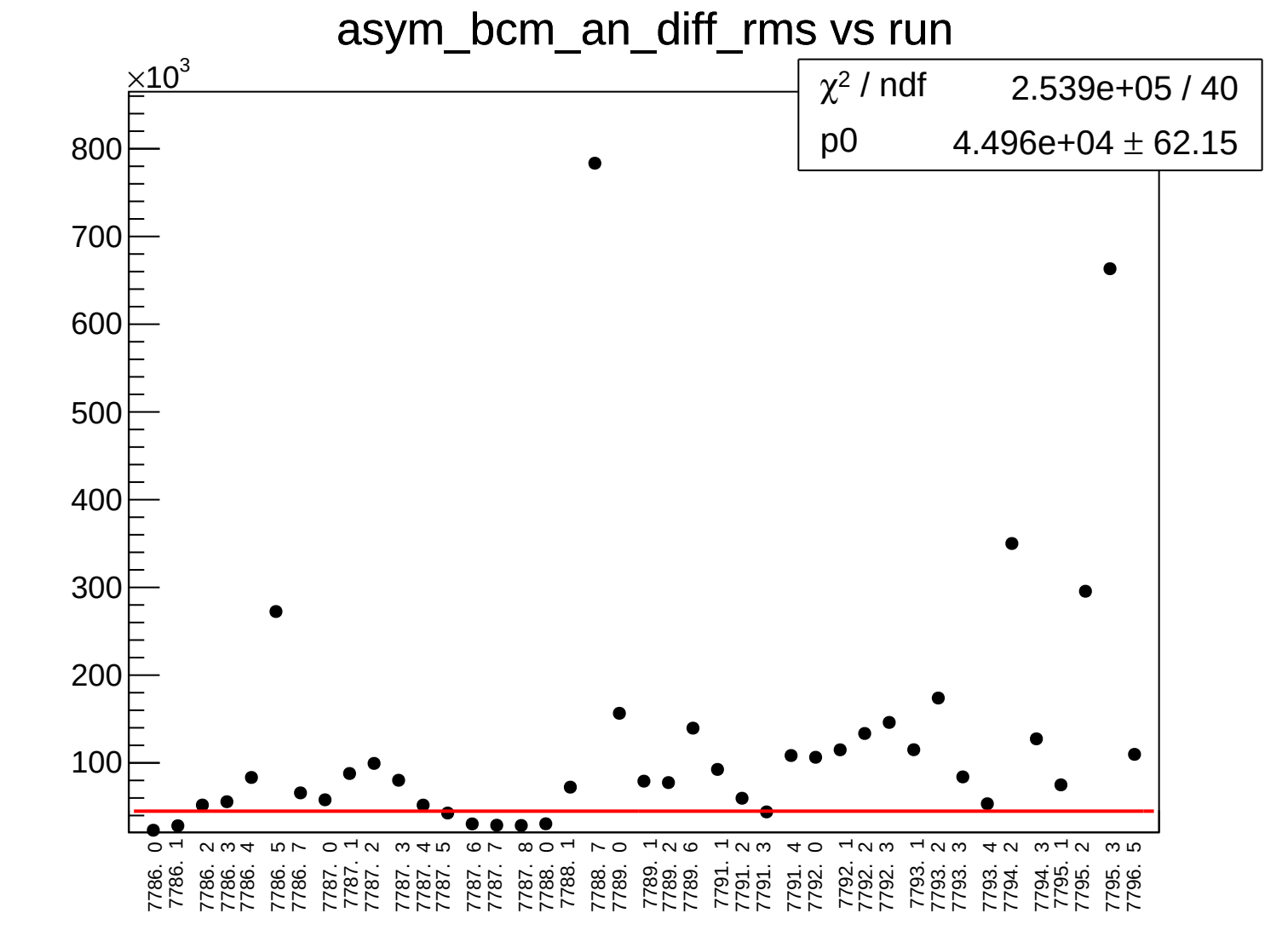

asym_bcm_target_mean vs run
χ² / ndf 18.74 / 78
p0 469.9 ± 398.2
pull
Entries 79
Mean −666.1
Std Dev 0

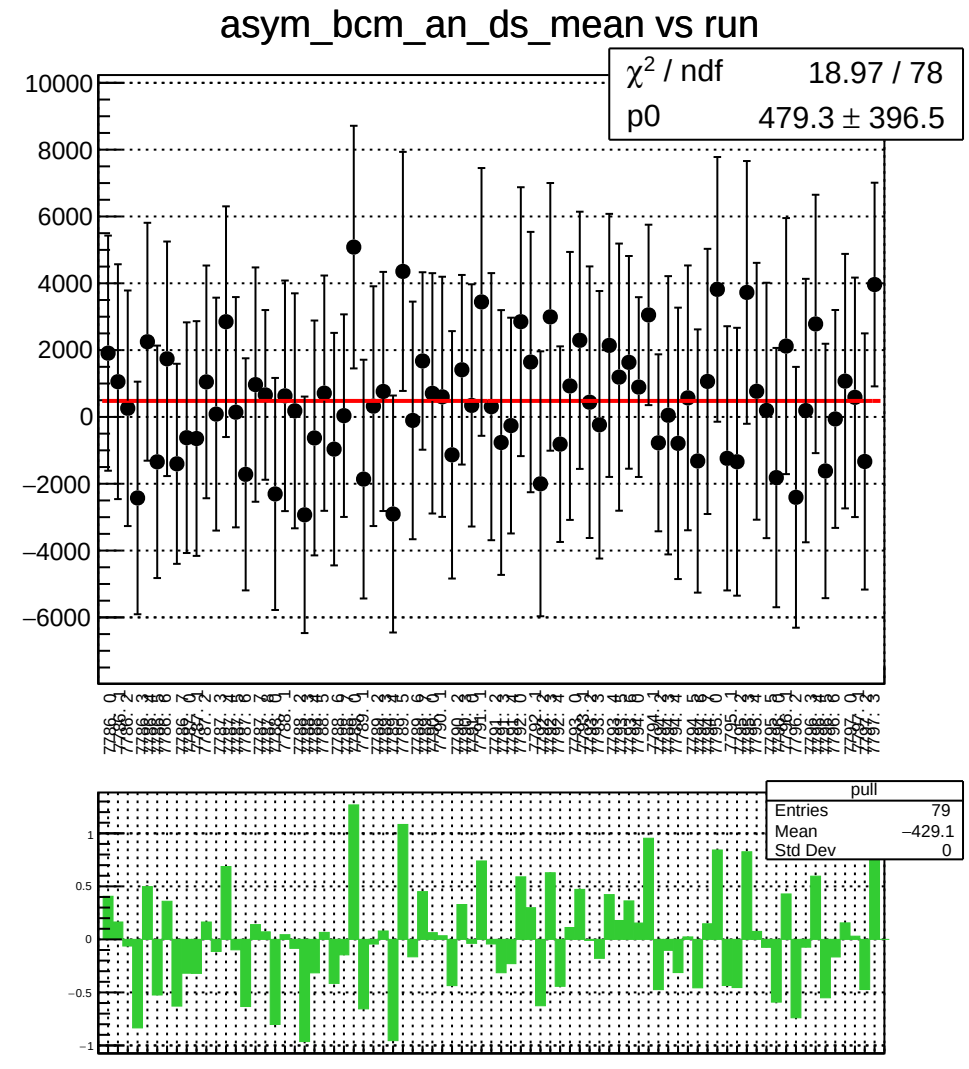

pull1D
Entries 79
Mean −0.001827
Std Dev 0.4871

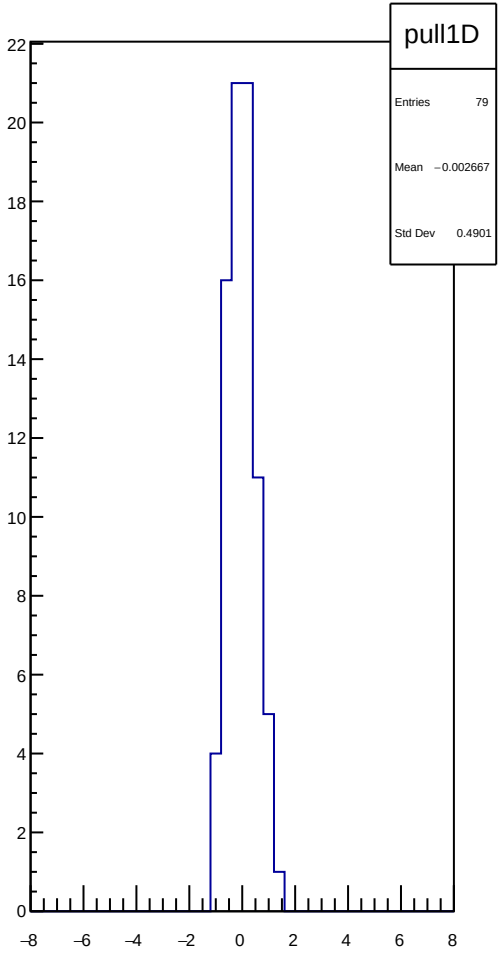

asym_bcm_target_rms vs run
χ² / ndf 1.241e+04 / 78
p0 347.3 ± 0.2816
400
380
360
340
320
300
280
260
240

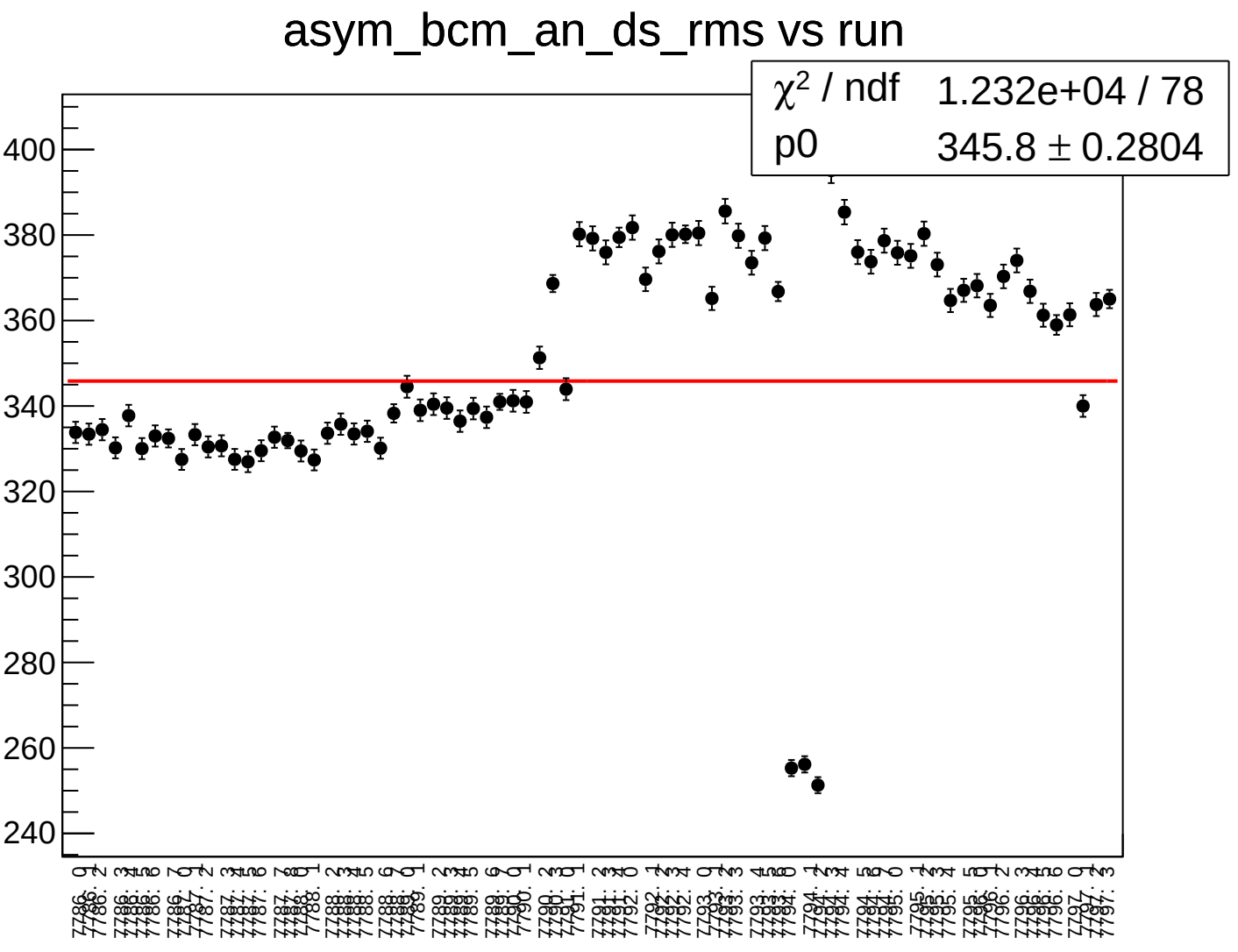

asym_bcm_an_diff_mean vs run
χ² / ndf 52.72 / 74
p0 55.72 ± 87.89
×10³
pull
Entries 75
Mean −182.2
Std Dev 0

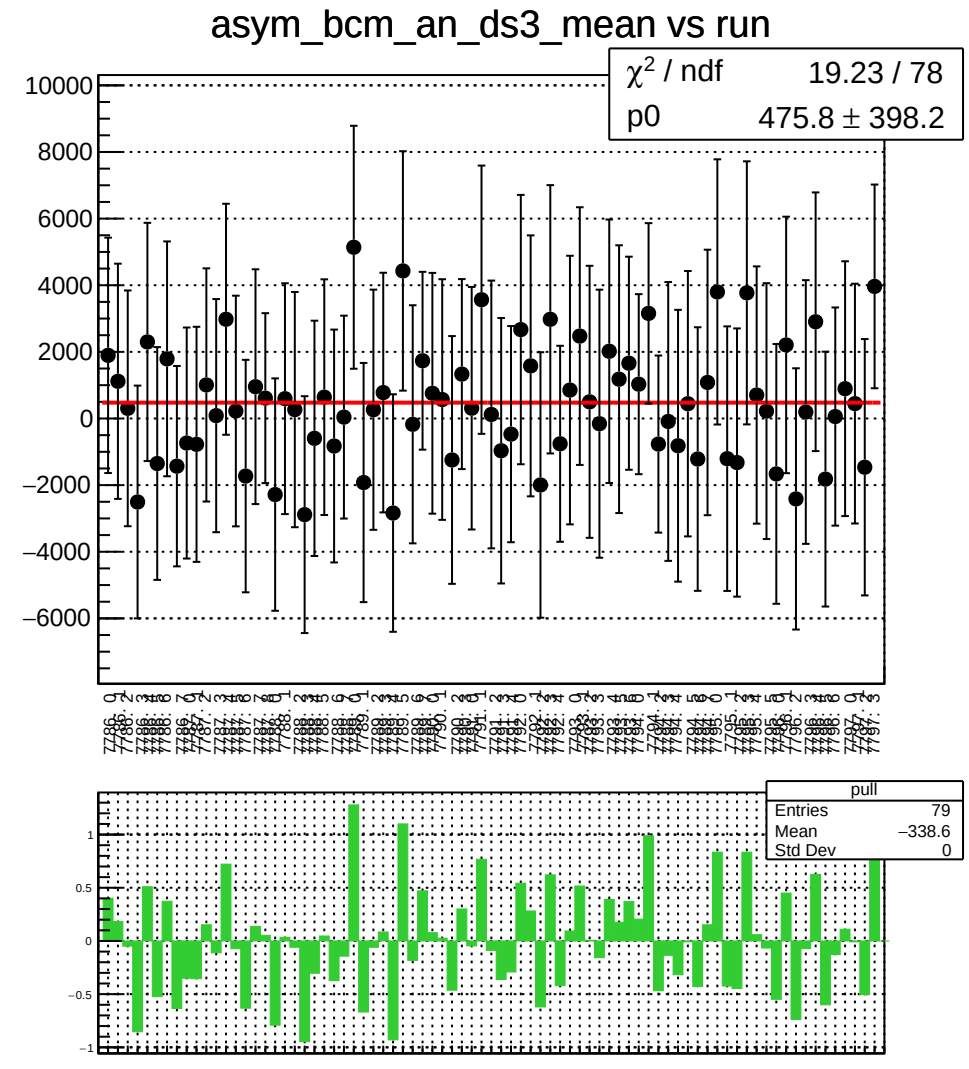

pull1D
Entries 75
Mean 0.007855
Std Dev 0.8384

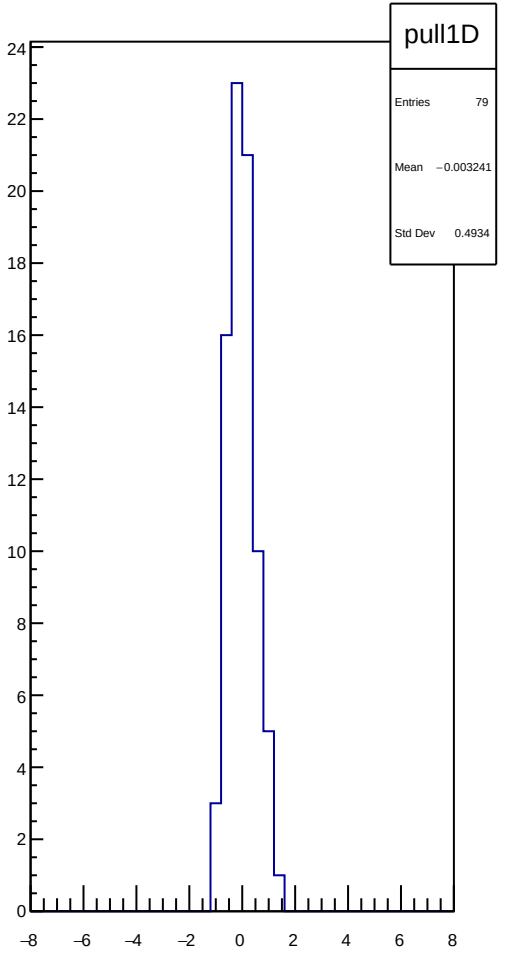

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 2.539e+05 / 40
p0 4.496e+04 ± 62.15
800
700
600
500
400
300
200
100
7786. 0
7786. 1
7786. 2
7786. 3
7786. 4
7786. 5
7786. 7
7787. 0
7787. 1
7787. 2
7787. 3
7787. 4
7787. 5
7787. 6
7787. 7
7787. 8
7788. 0
7788. 1
7788. 7
7789. 0
7789. 1
7789. 2
7789. 6
7791. 1
7791. 2
7791. 3
7791. 4
7792. 0
7792. 1
7792. 2
7792. 3
7793. 1
7793. 2
7793. 3
7793. 4
7794. 2
7794. 3
7795. 1
7795. 2
7795. 3
7796. 5

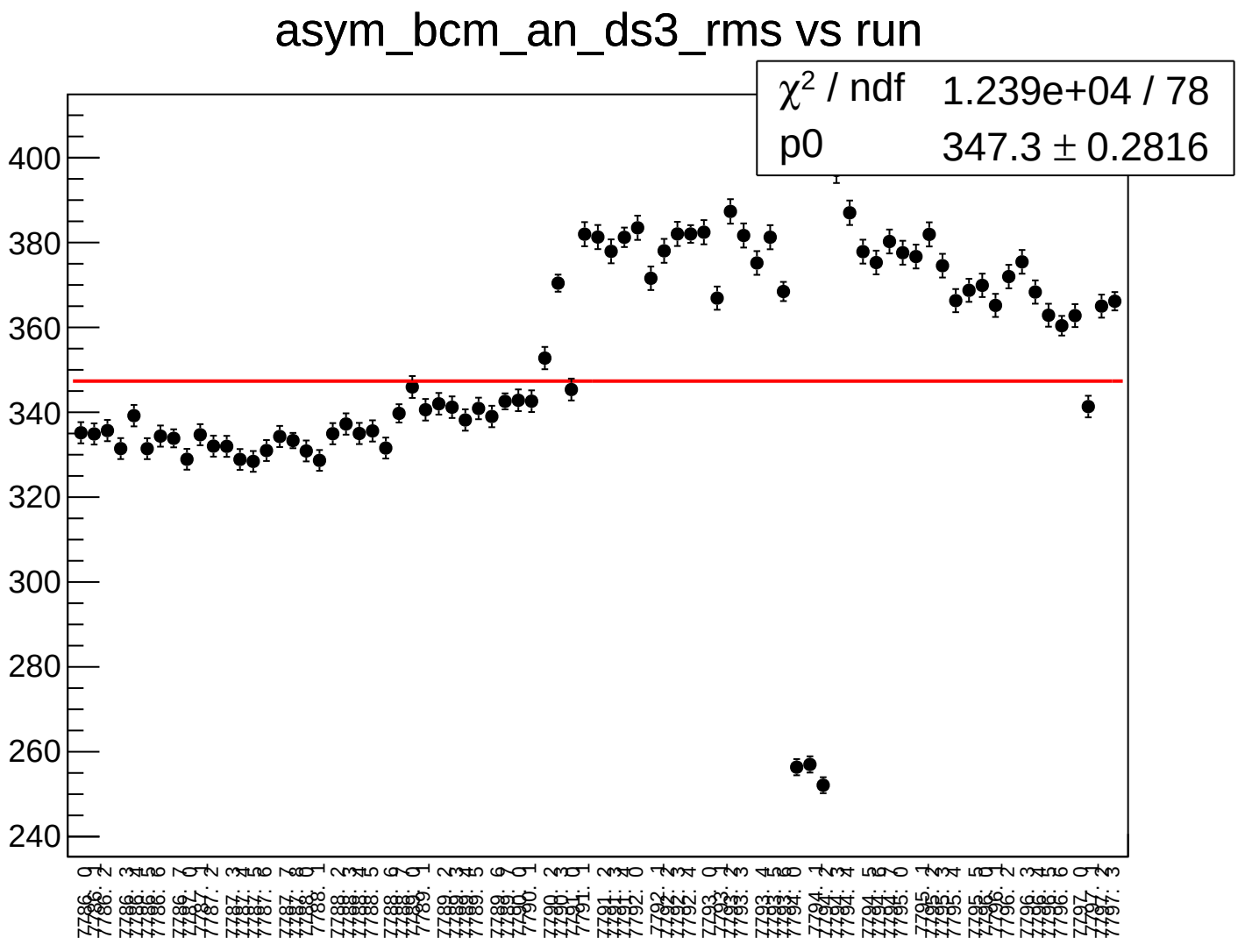

asym_bcm_an_ds_mean vs run
χ^2 / ndf 18.97 / 78
p0 479.3 ± 396.5
pull
Entries 79
Mean −429.1
Std Dev 0

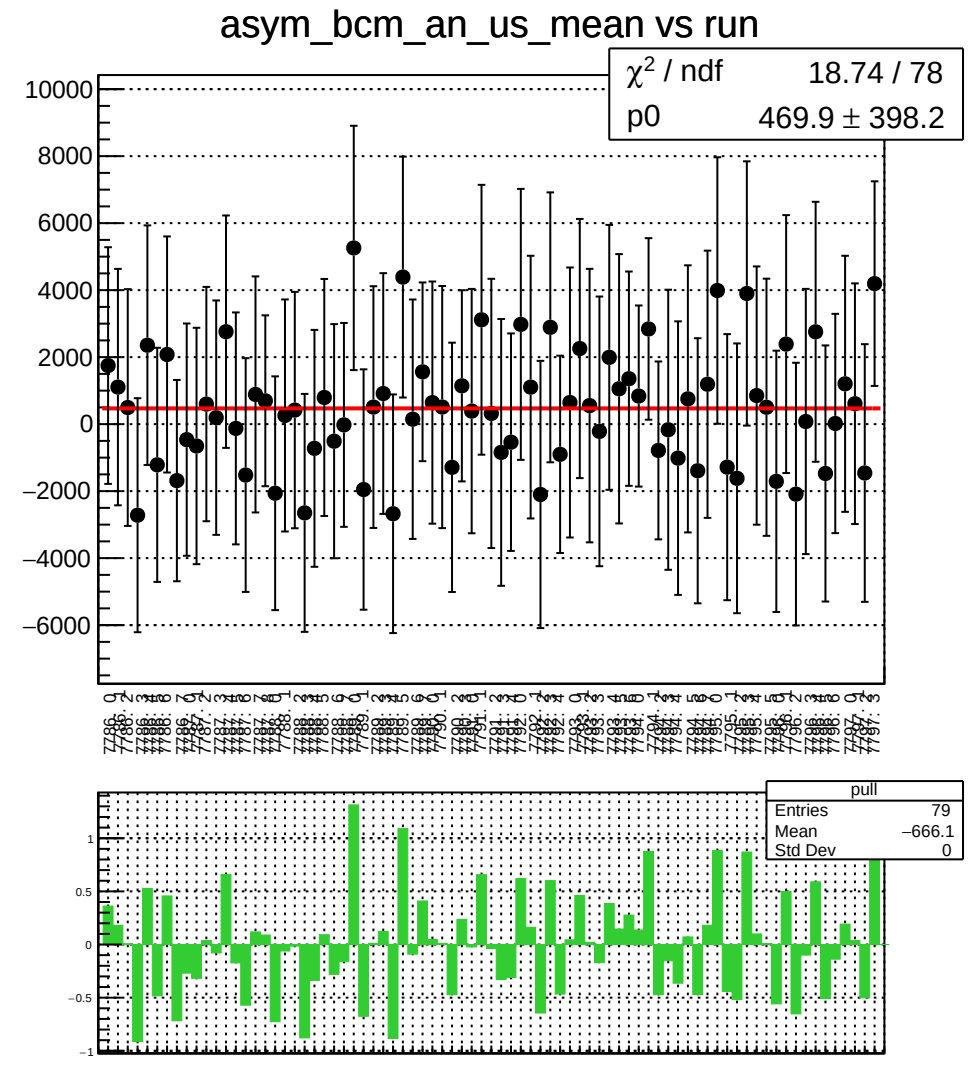

pull1D
Entries 79
Mean −0.002667
Std Dev 0.4901

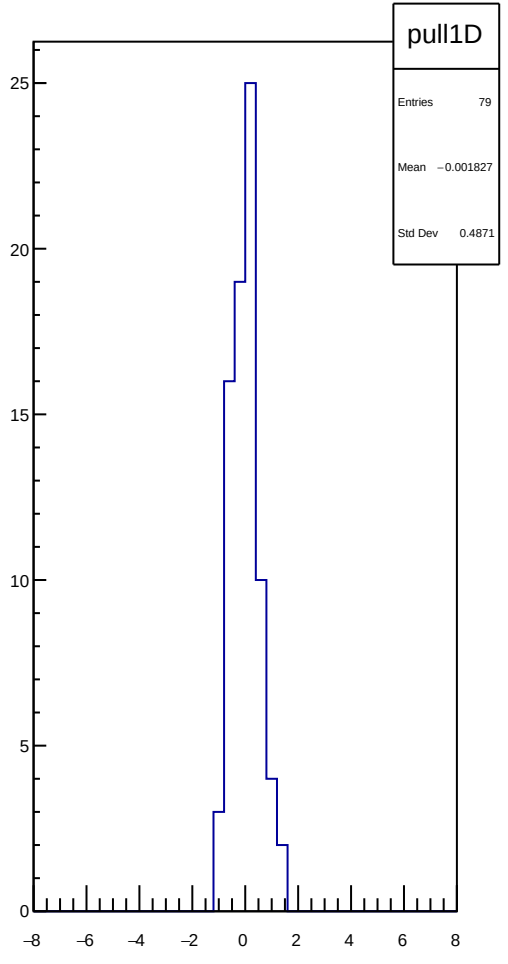

asym_bcm_an_ds_rms vs run
χ^2 / ndf 1.232e+04 / 78
p0 345.8 ± 0.2804
400
380
360
340
320
300
280
260
240

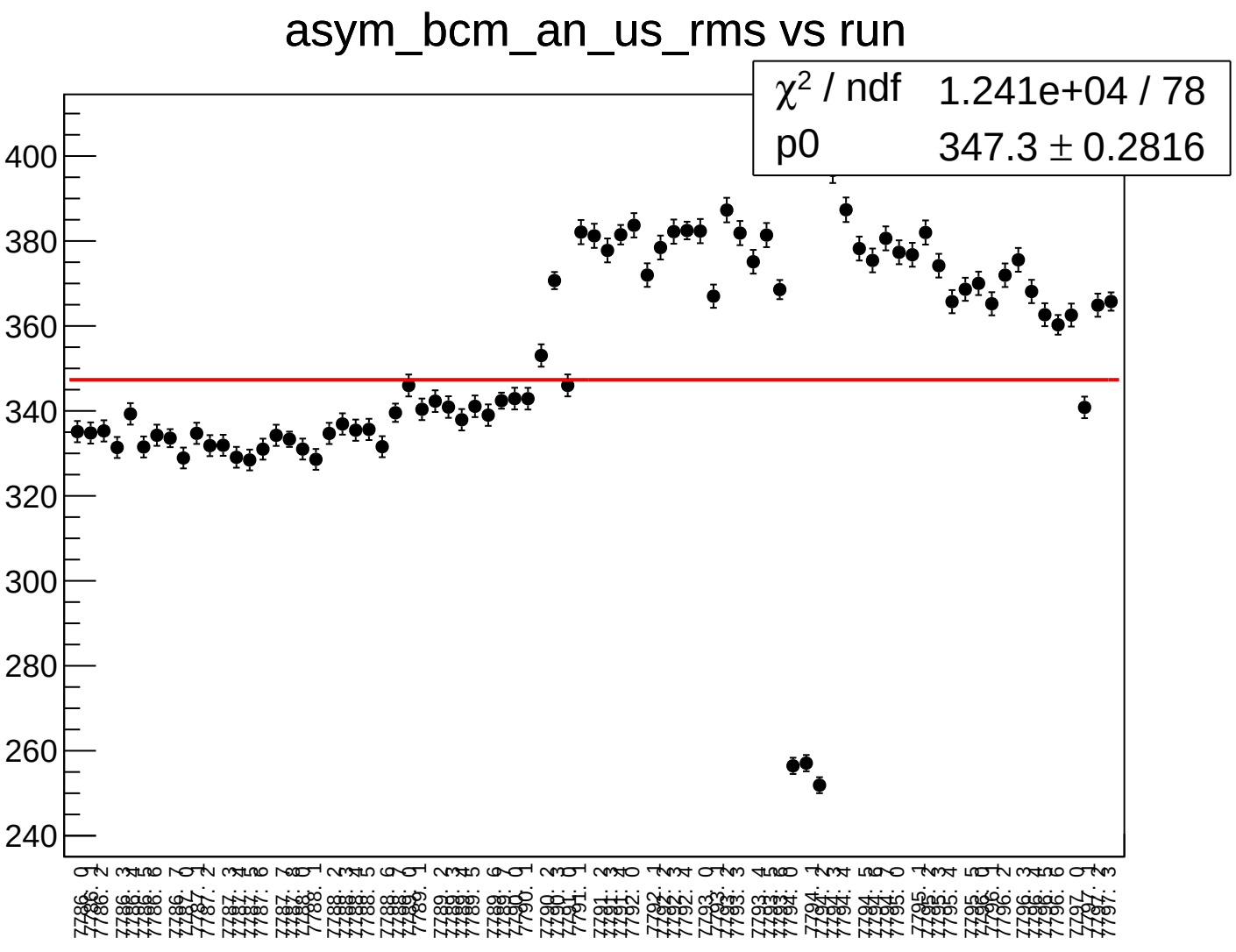

asym_bcm_an_ds3_mean vs run
χ^2 / ndf 19.23 / 78
p0 475.8 ± 398.2
pull
Entries 79
Mean −338.6
Std Dev 0

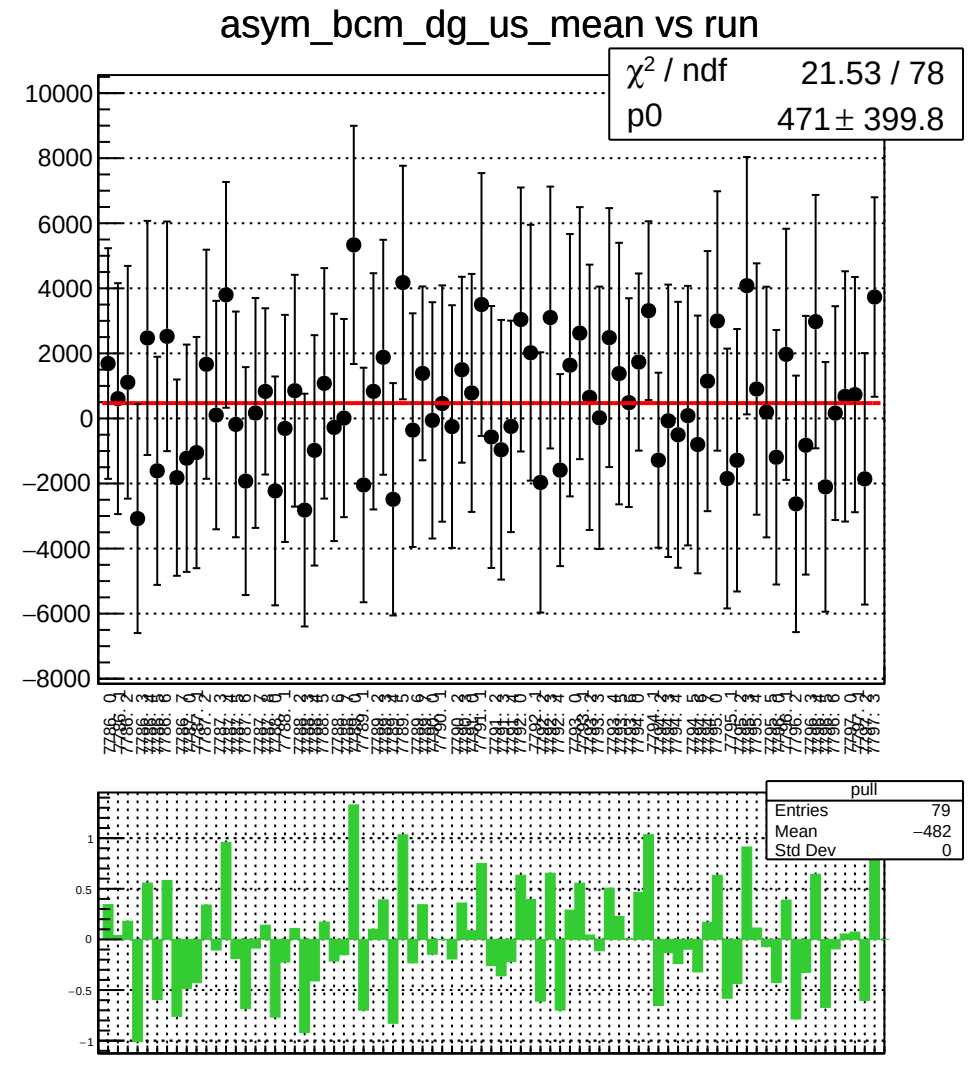

pull1D
Entries 79
Mean −0.003241
Std Dev 0.4934

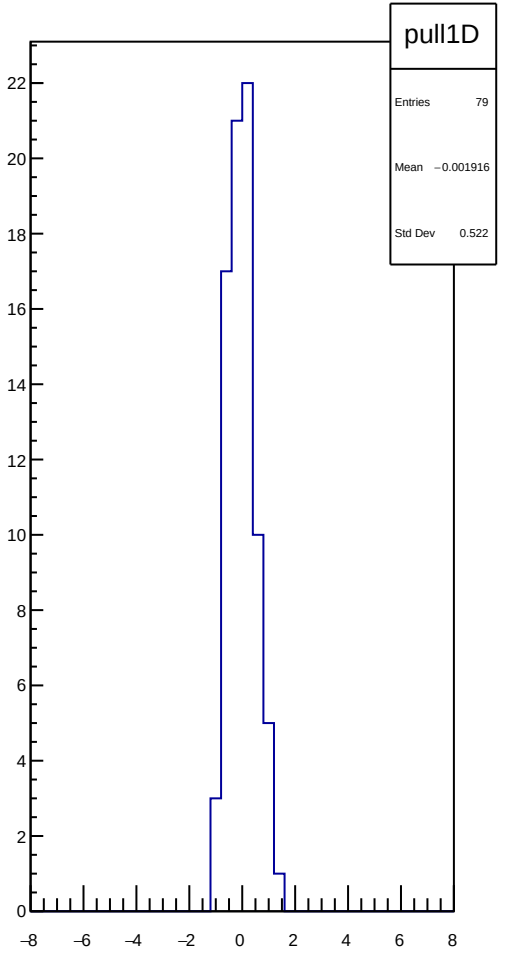

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 1.239e+04 / 78
p0 347.3 ± 0.2816
400
380
360
340
320
300
280
260
240

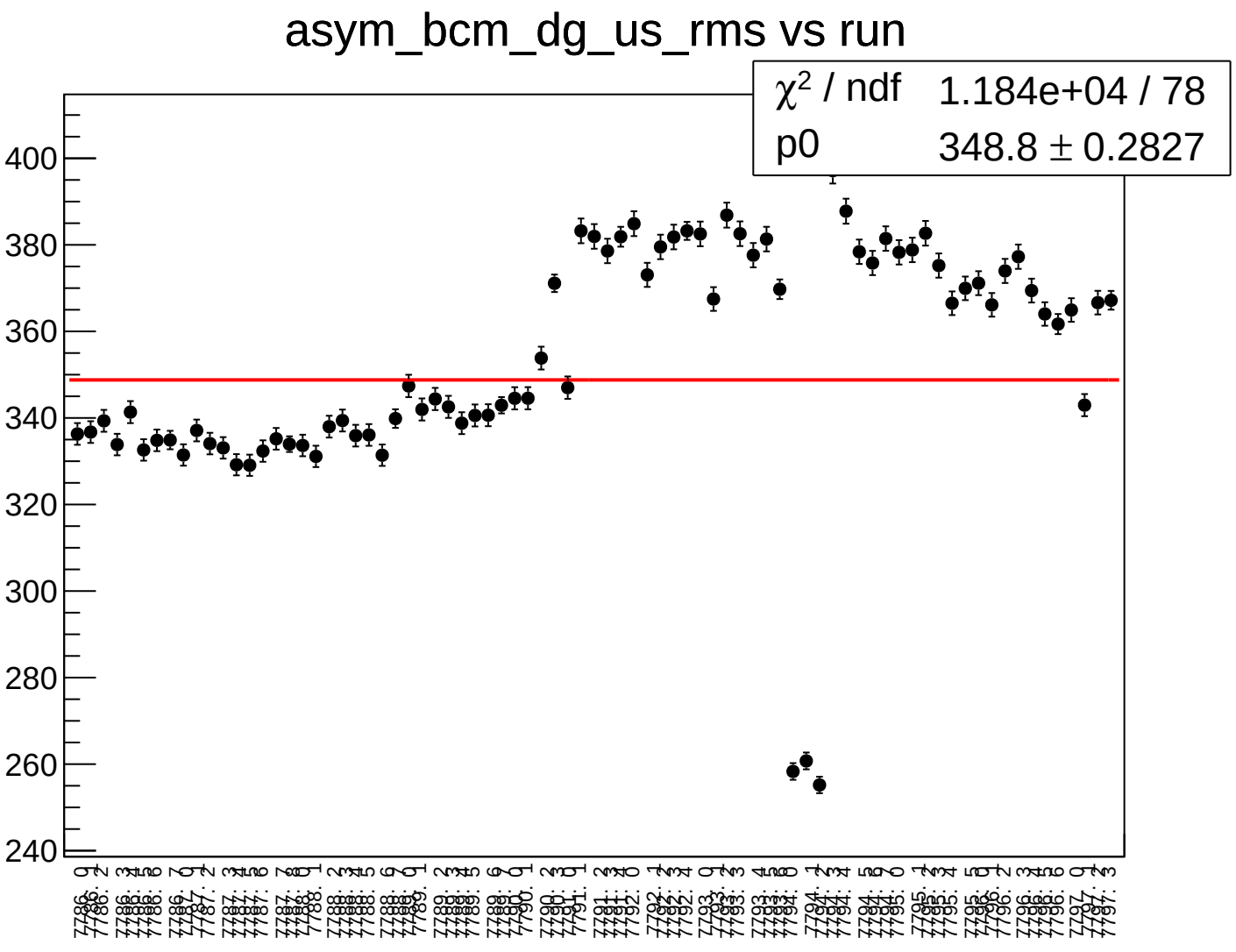

asym_bcm_an_us_mean vs run
χ² / ndf 18.74 / 78
p0 469.9 ± 398.2
pull
Entries 79
Mean −666.1
Std Dev 0

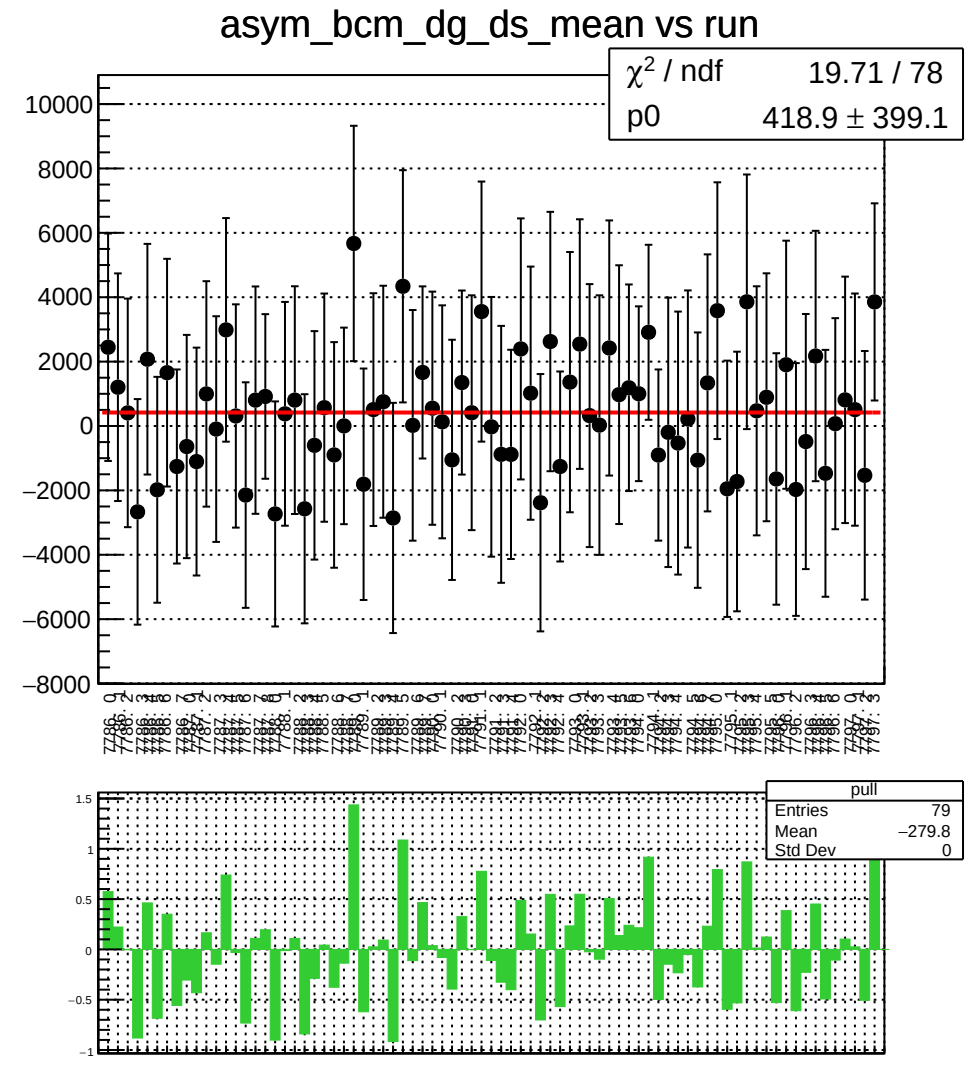

pull1D
Entries 79
Mean −0.001827
Std Dev 0.4871

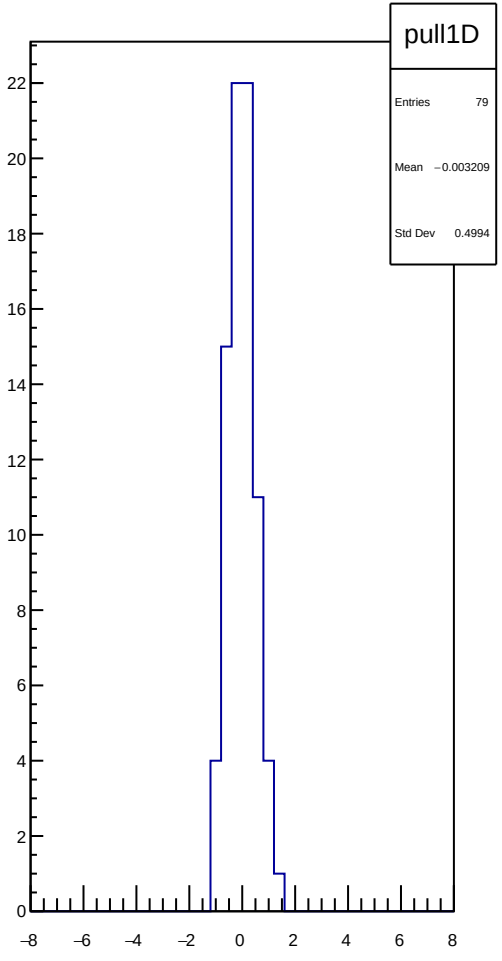

asym_bcm_an_us_rms vs run
χ² / ndf 1.241e+04 / 78
p0 347.3 ± 0.2816
400
380
360
340
320
300
280
260
240

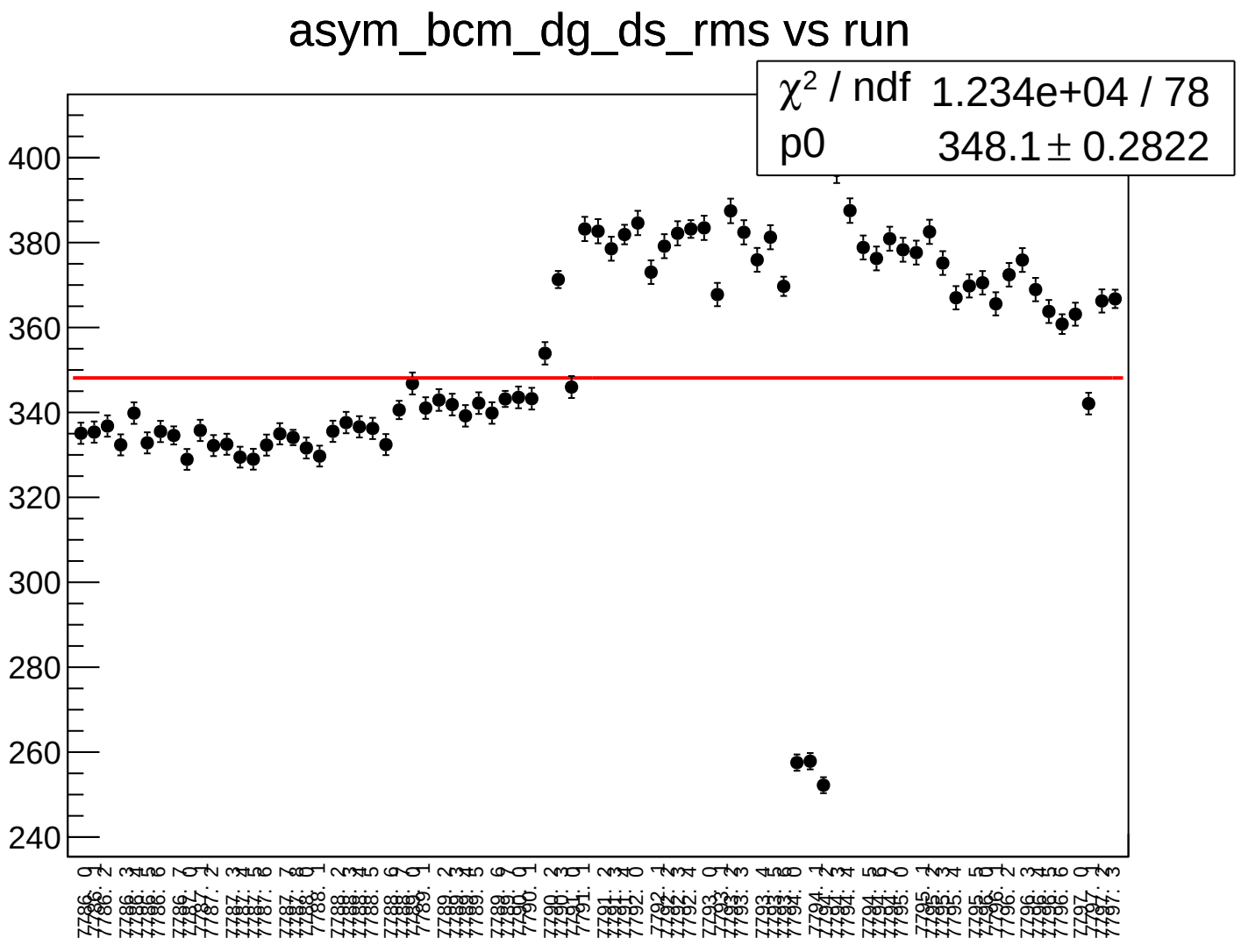

asym_bcm_dg_us_mean vs run
χ² / ndf 21.53 / 78
p0 471 ± 399.8
pull
Entries 79
Mean −482
Std Dev 0

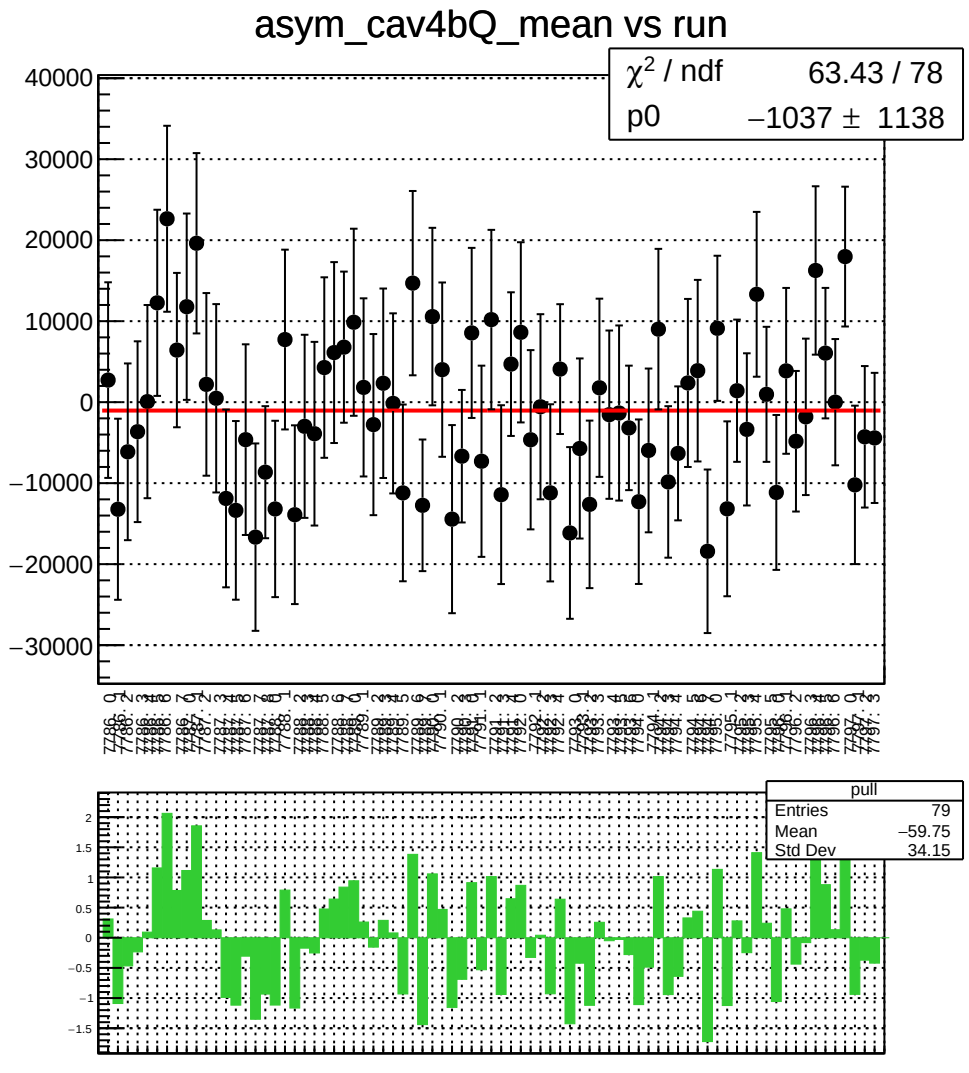

pull1D
Entries 79
Mean −0.001916
Std Dev 0.522

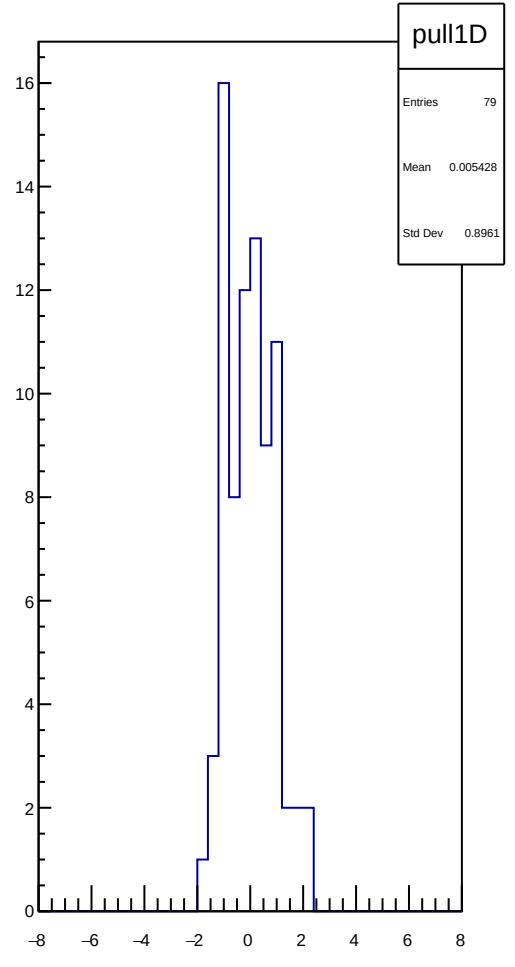

asym_bcm_dg_us_rms vs run
χ^2 / ndf 1.184e+04 / 78
p0 348.8 ± 0.2827
400
380
360
340
320
300
280
260
240

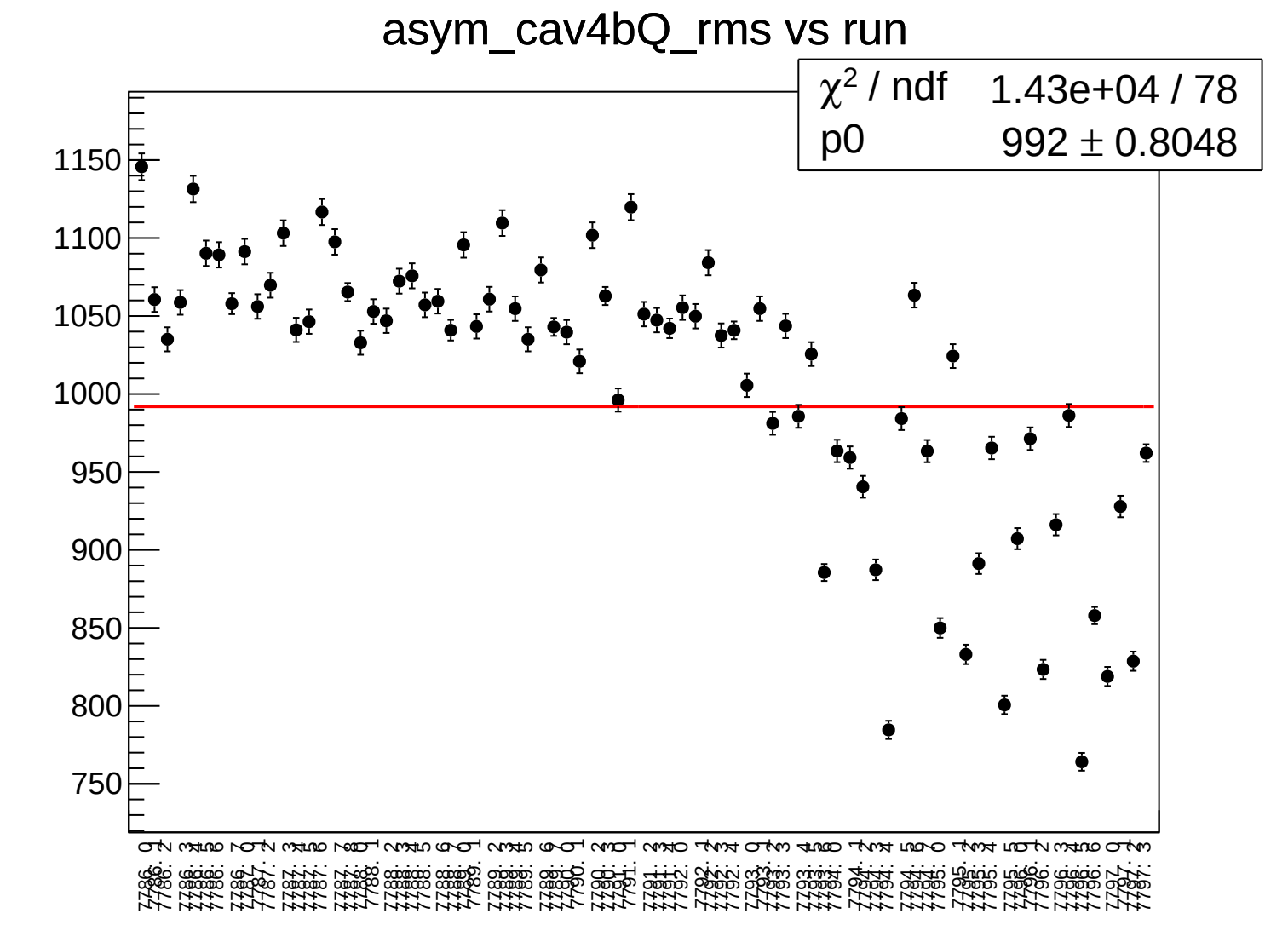

asym_bcm_dg_ds_mean vs run
χ² / ndf 19.71 / 78
p0 418.9 ± 399.1
pull
Entries 79
Mean −279.8
Std Dev 0

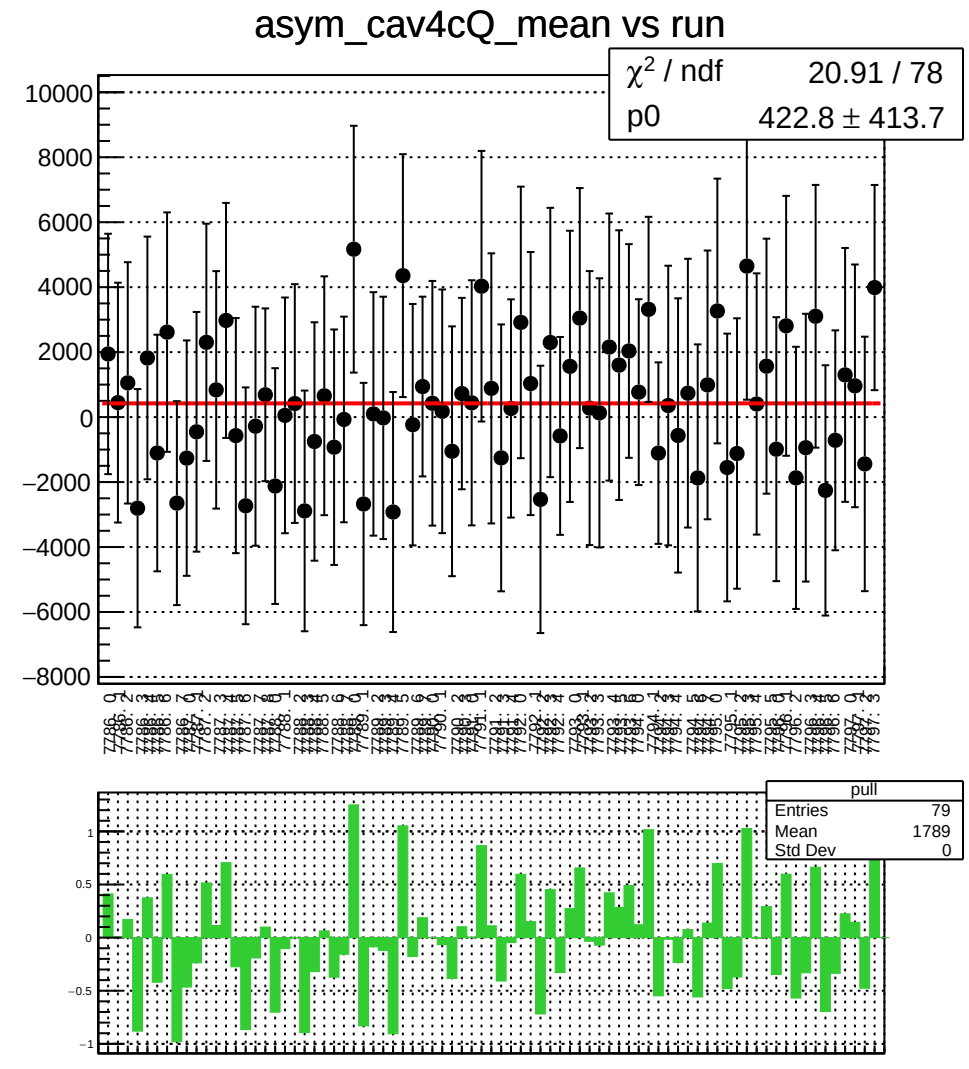

pull1D
Entries 79
Mean −0.003209
Std Dev 0.4994

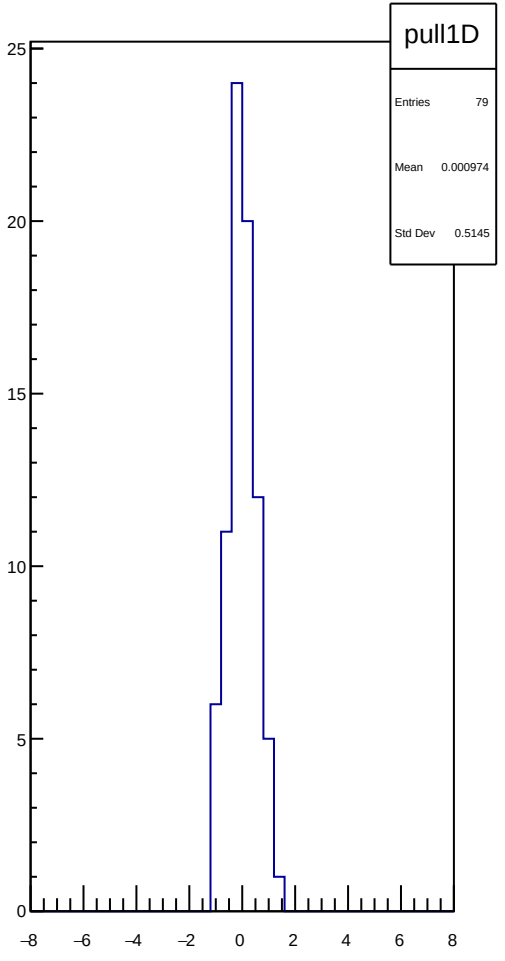

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.234e+04 / 78
p0 348.1 ± 0.2822
400
380
360
340
320
300
280
260
240

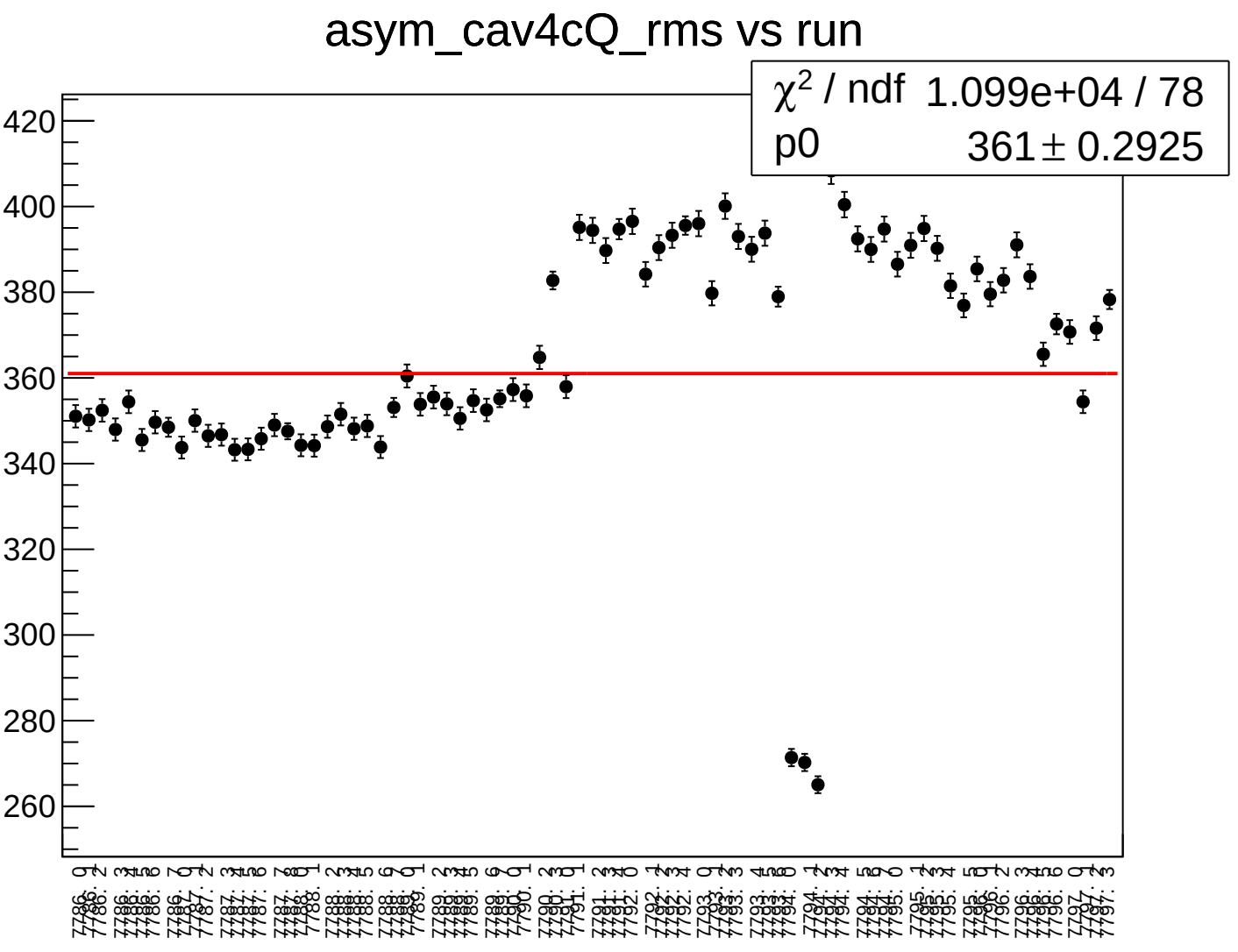

asym_cav4bQ_mean vs run
χ^2 / ndf 63.43 / 78
p0 −1037 ± 1138
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −59.75
Std Dev 34.15
2
1.5
1
0.5
0
−0.5
−1
−1.5

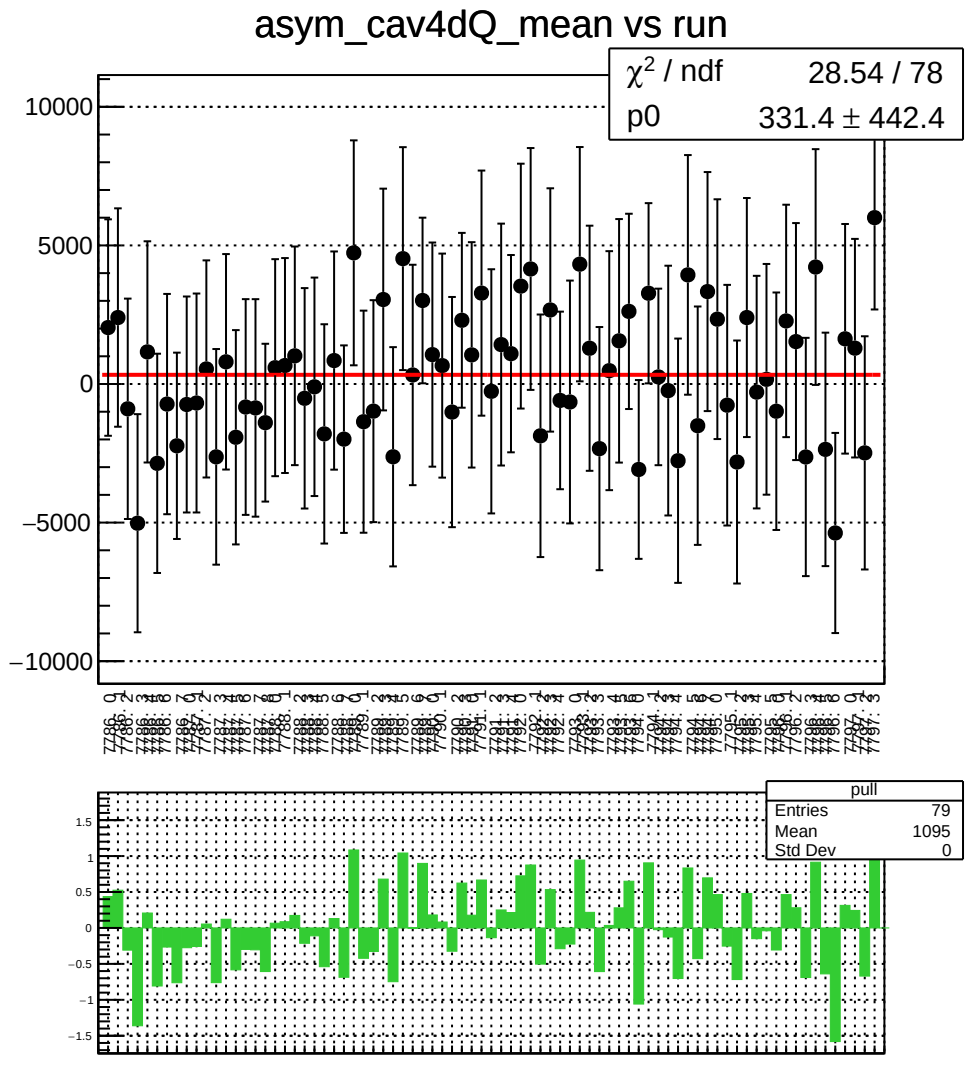

pull1D
Entries 79
Mean 0.005428
Std Dev 0.8961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

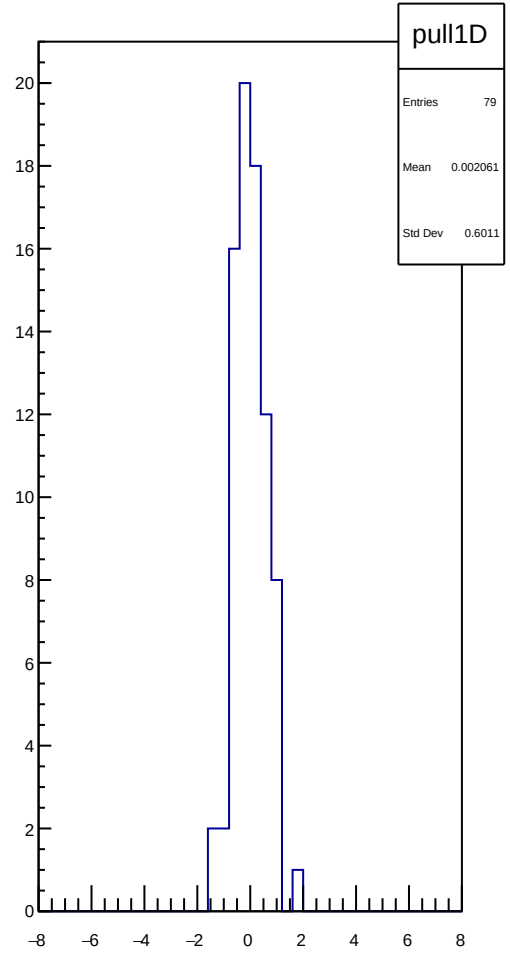

asym_cav4bQ_rms vs run
χ² / ndf 1.43e+04 / 78
p0 992 ± 0.8048
1150
1100
1050
1000
950
900
850
800
750

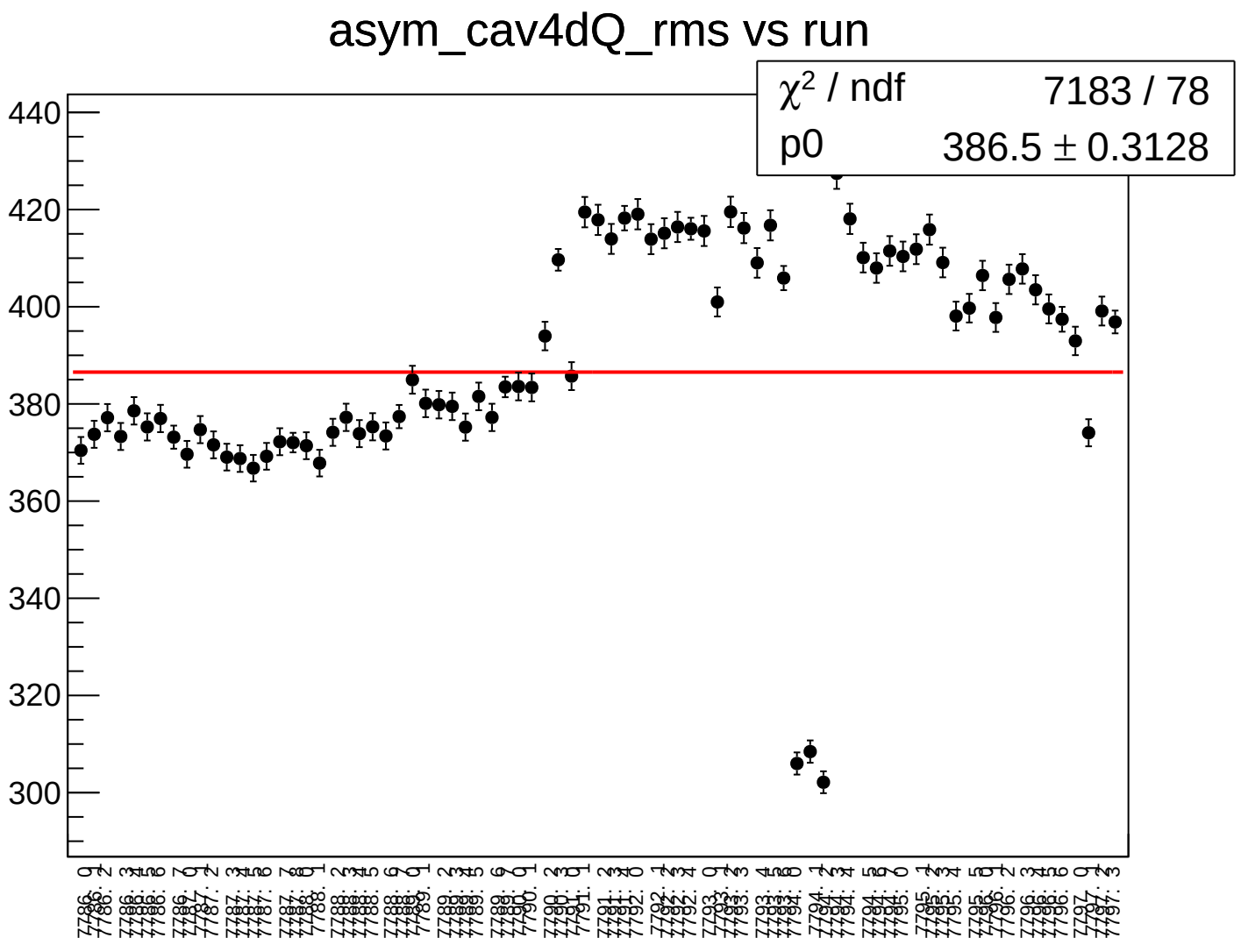

asym_cav4cQ_mean vs run
χ² / ndf 20.91 / 78
p0 422.8 ± 413.7
pull
Entries 79
Mean 1789
Std Dev 0

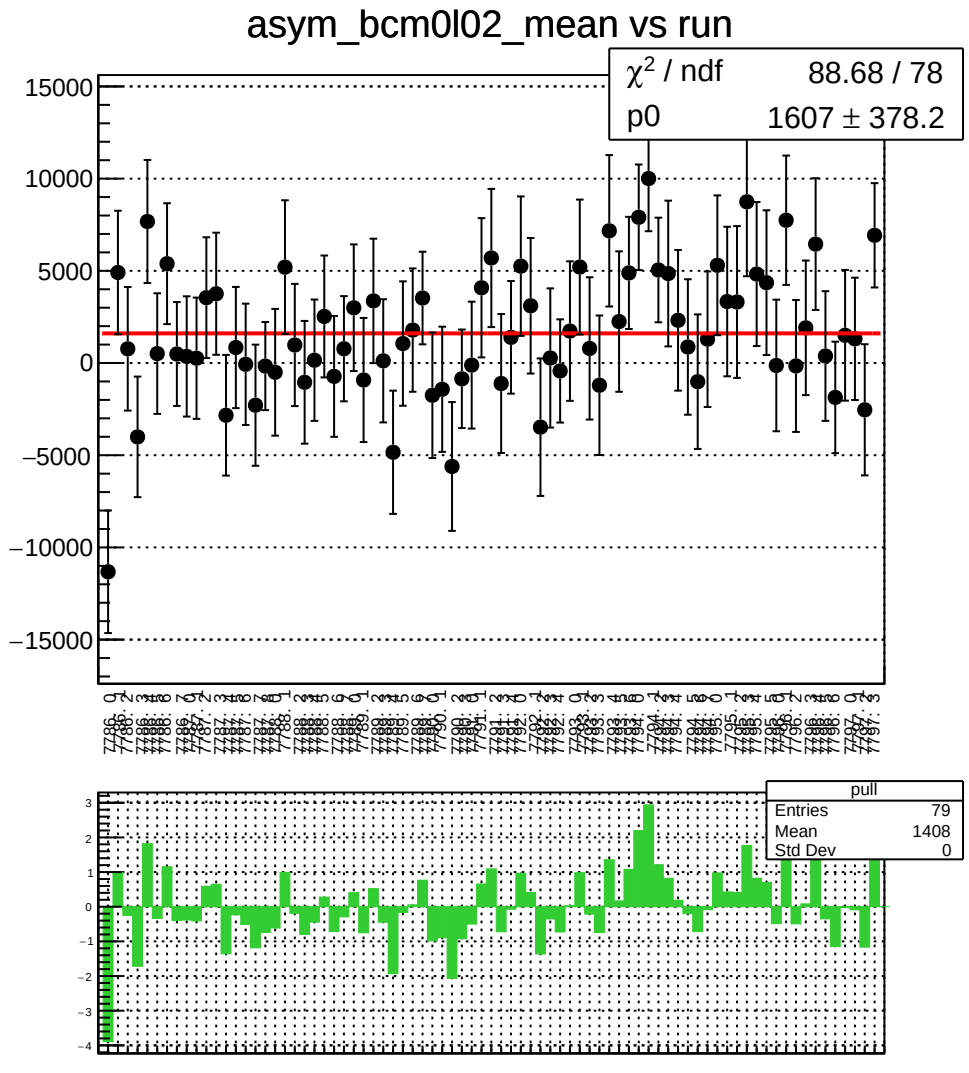

pull1D
Entries 79
Mean 0.000974
Std Dev 0.5145

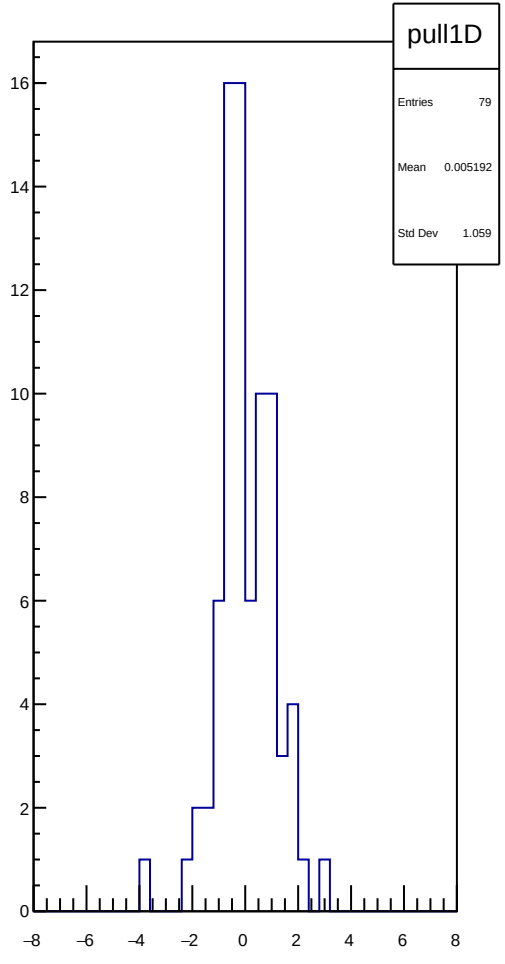

asym_cav4cQ_rms vs run
χ^2 / ndf 1.099e+04 / 78
p0 361 ± 0.2925
420
400
380
360
340
320
300
280
260

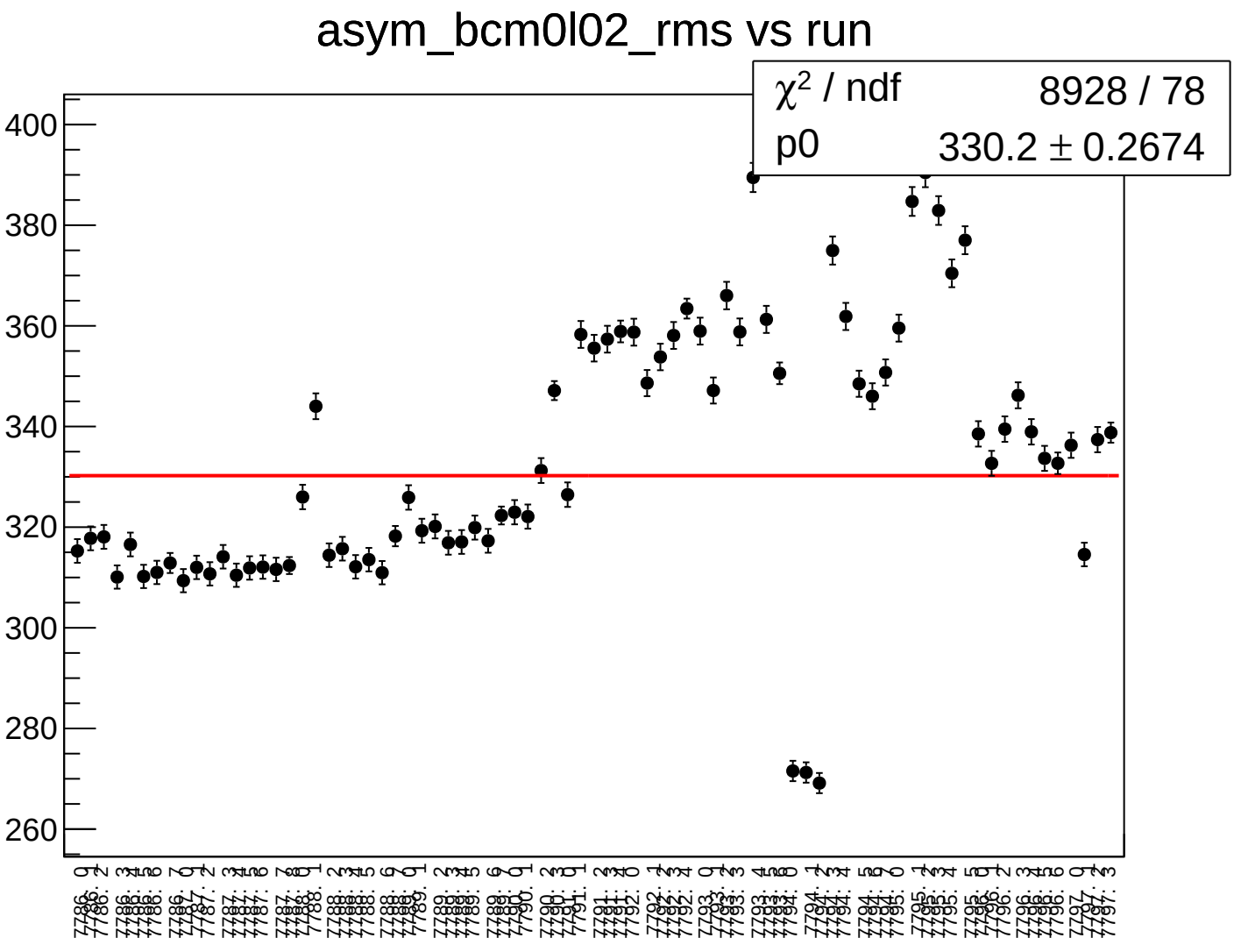

asym_cav4dQ_mean vs run
χ² / ndf 28.54 / 78
p0 331.4 ± 442.4
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 1095
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

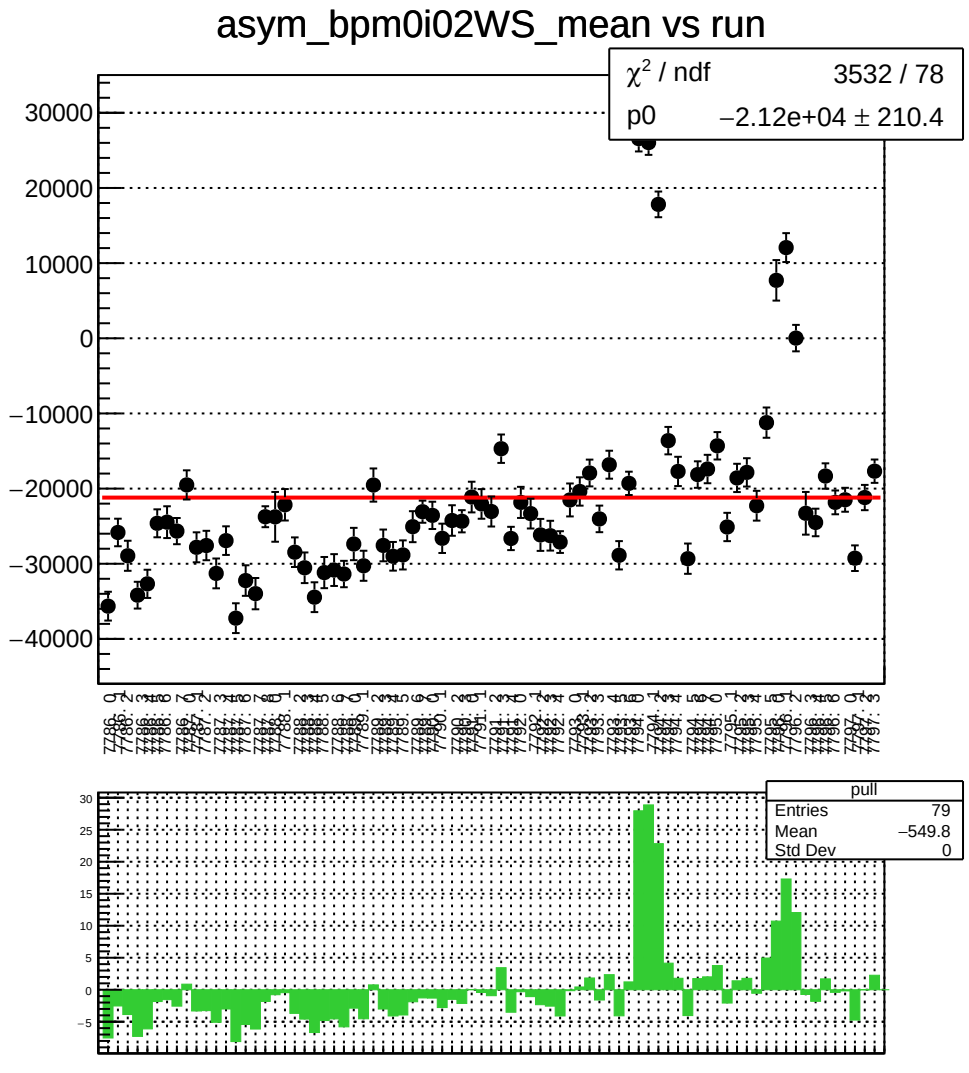

pull1D
Entries 79
Mean 0.002061
Std Dev 0.6011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

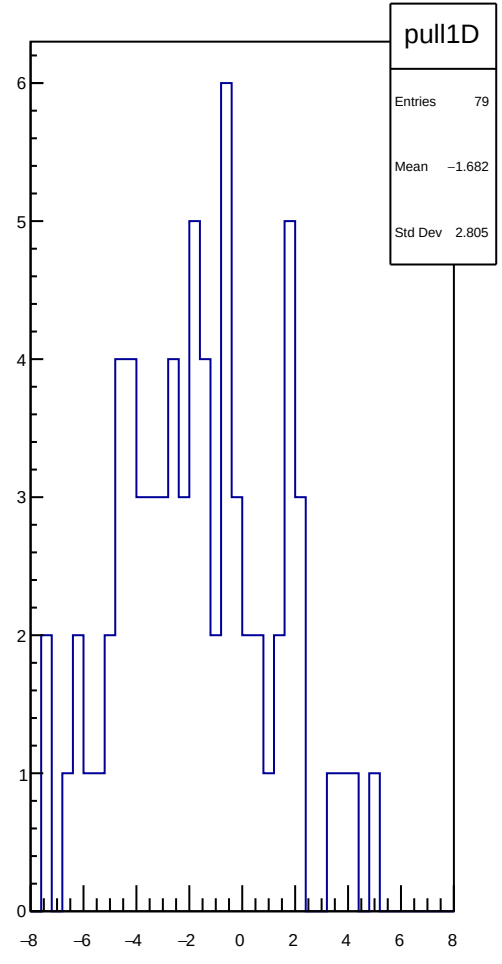

asym_cav4dQ_rms vs run
χ^2 / ndf 7183 / 78
p0 386.5 ± 0.3128
440
420
400
380
360
340
320
300

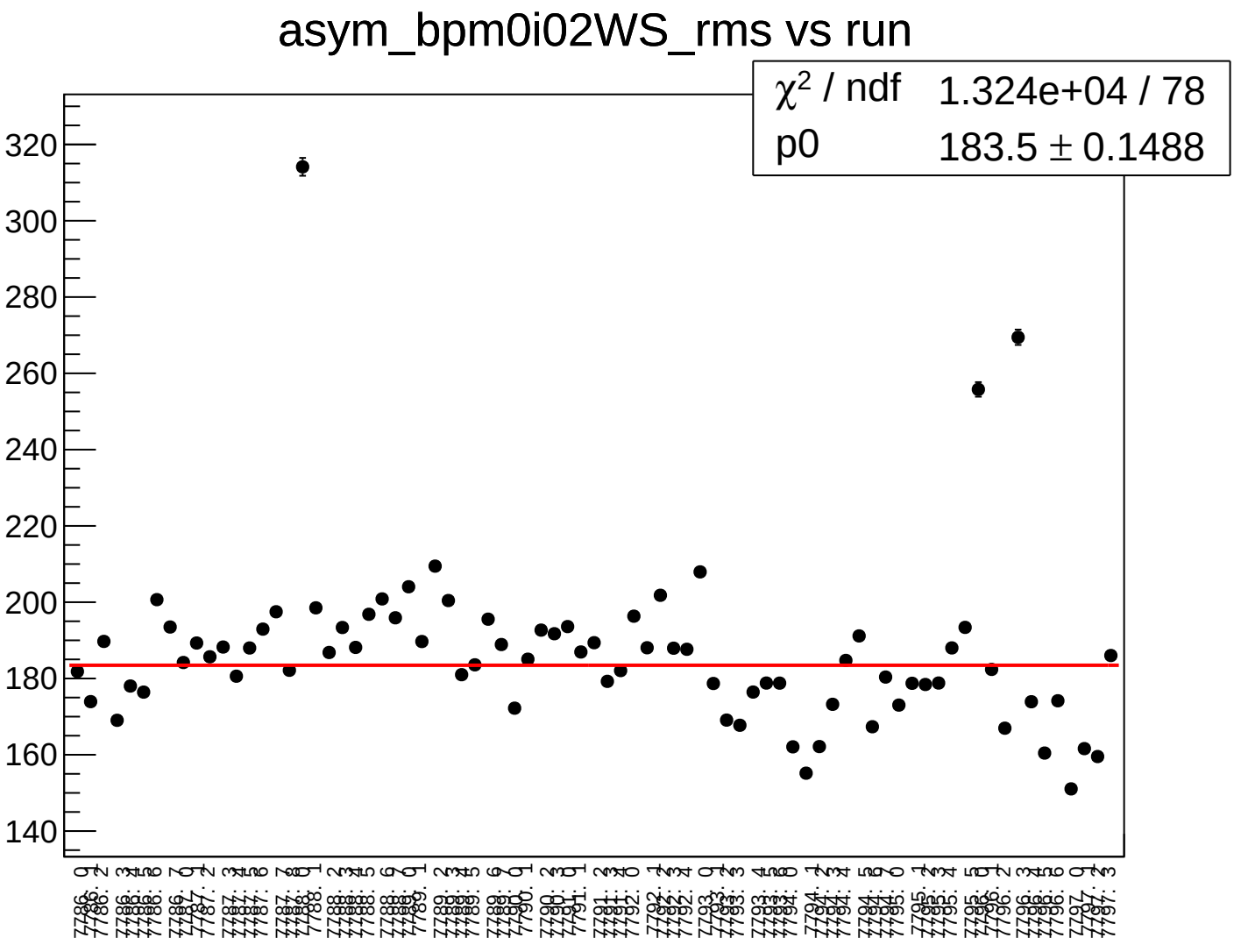

asym_bcm0l02_mean vs run
χ² / ndf 88.68 / 78
p0 1607 ± 378.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 1408
Std Dev 0
3
2
1
0
−1
−2
−3
−4

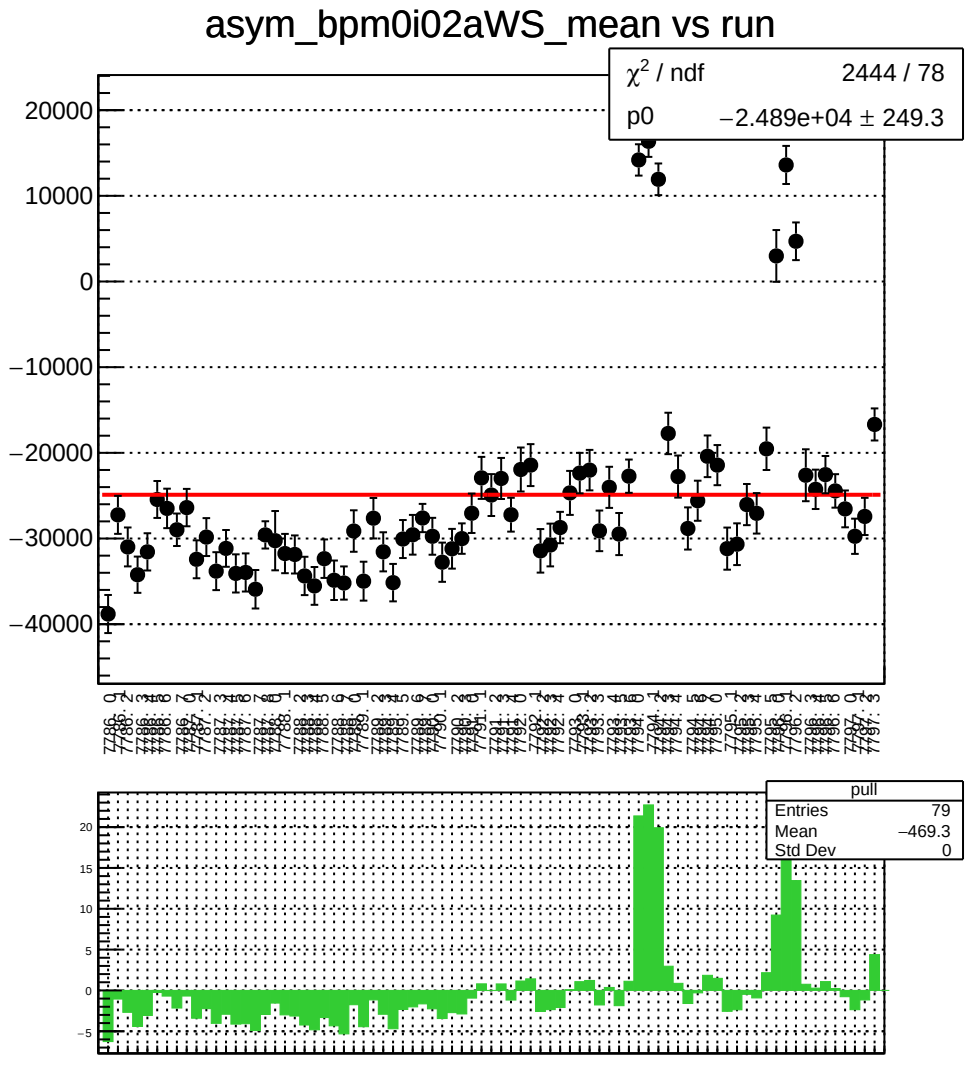

pull1D
Entries 79
Mean 0.005192
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

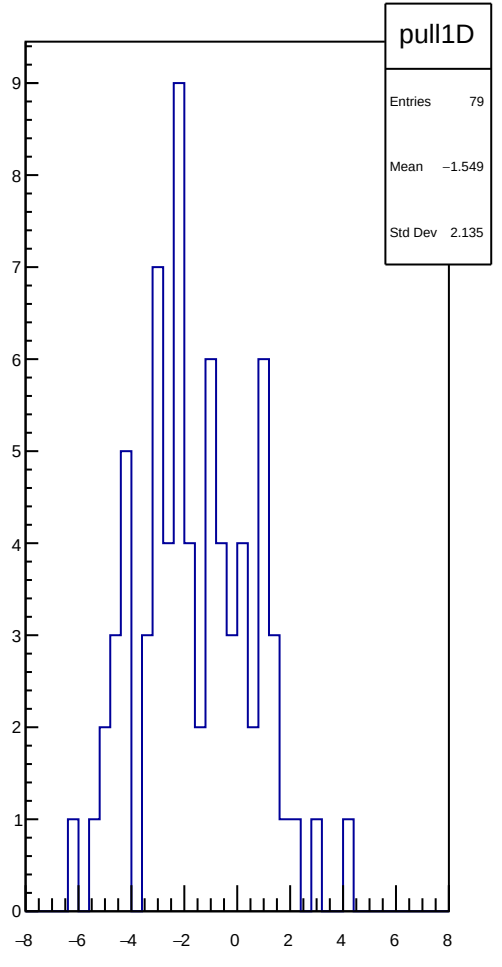

asym_bcm0l02_rms vs run
χ^2 / ndf 8928 / 78
p0 330.2 ± 0.2674
400
380
360
340
320
300
280
260

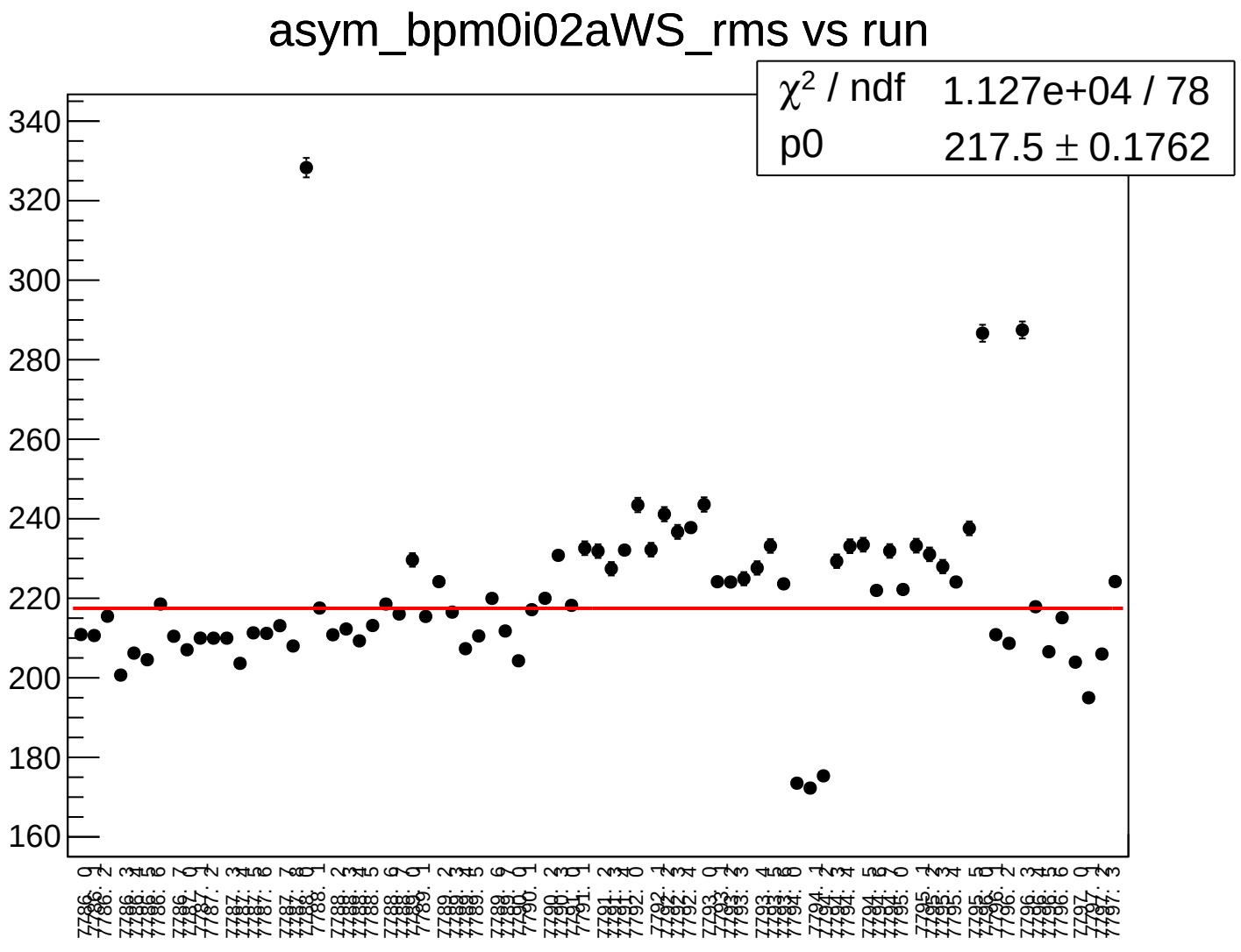

asym_bpm0i02WS_mean vs run
χ² / ndf 3532 / 78
p0 −2.12e+04 ± 210.4
pull
Entries 79
Mean −549.8
Std Dev 0

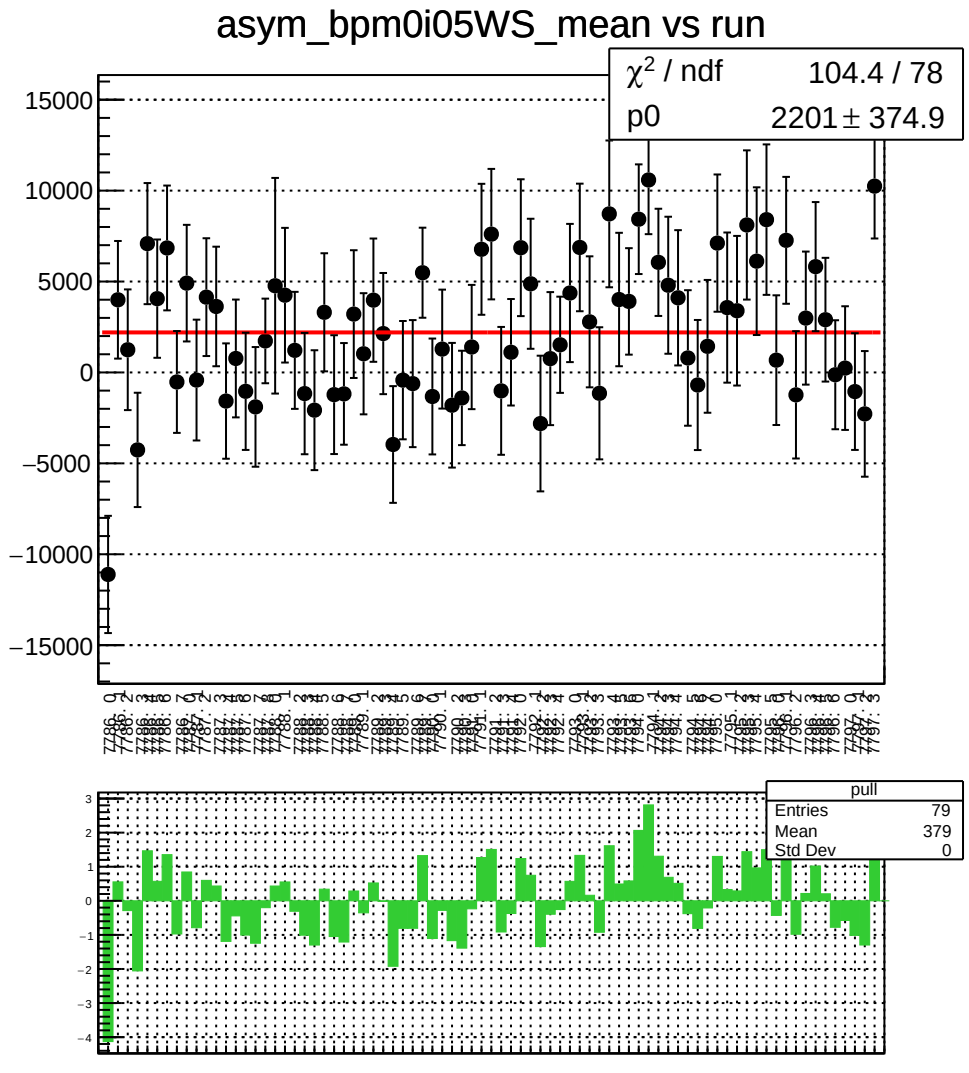

pull1D
Entries 79
Mean −1.682
Std Dev 2.805

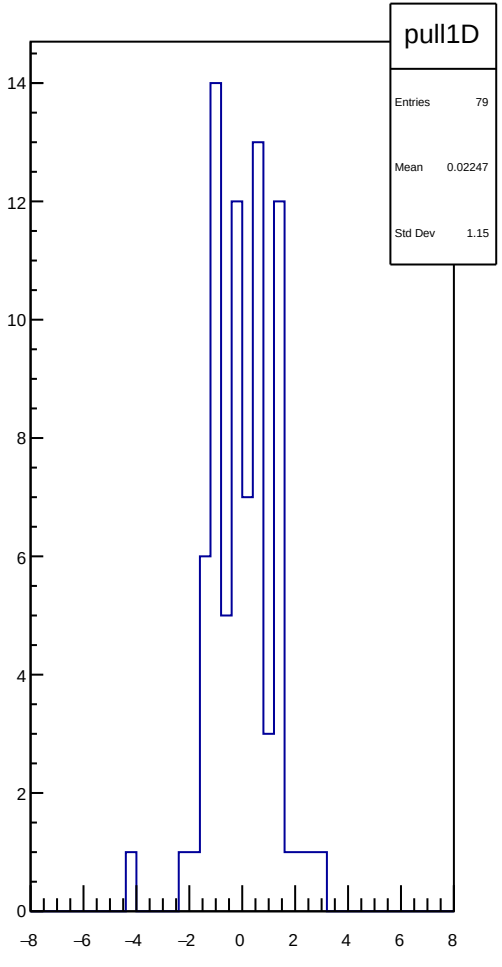

asym_bpm0i02WS_rms vs run
χ² / ndf 1.324e+04 / 78
p0 183.5 ± 0.1488
320
300
280
260
240
220
200
180
160
140

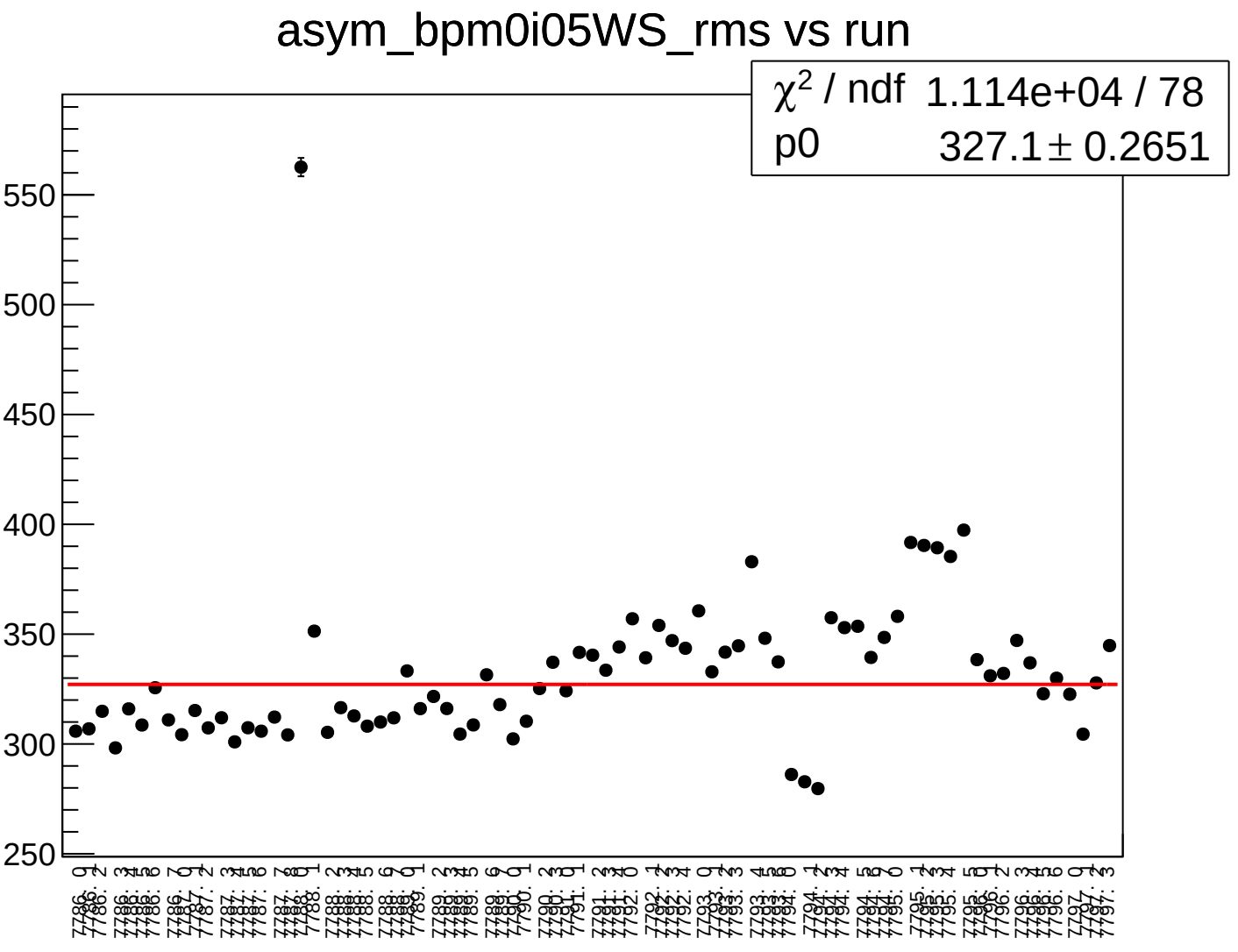

asym_bpm0i02aWS_mean vs run
χ² / ndf 2444 / 78
p0 −2.489e+04 ± 249.3
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 79
Mean −469.3
Std Dev 0
20
15
10
5
0
−5

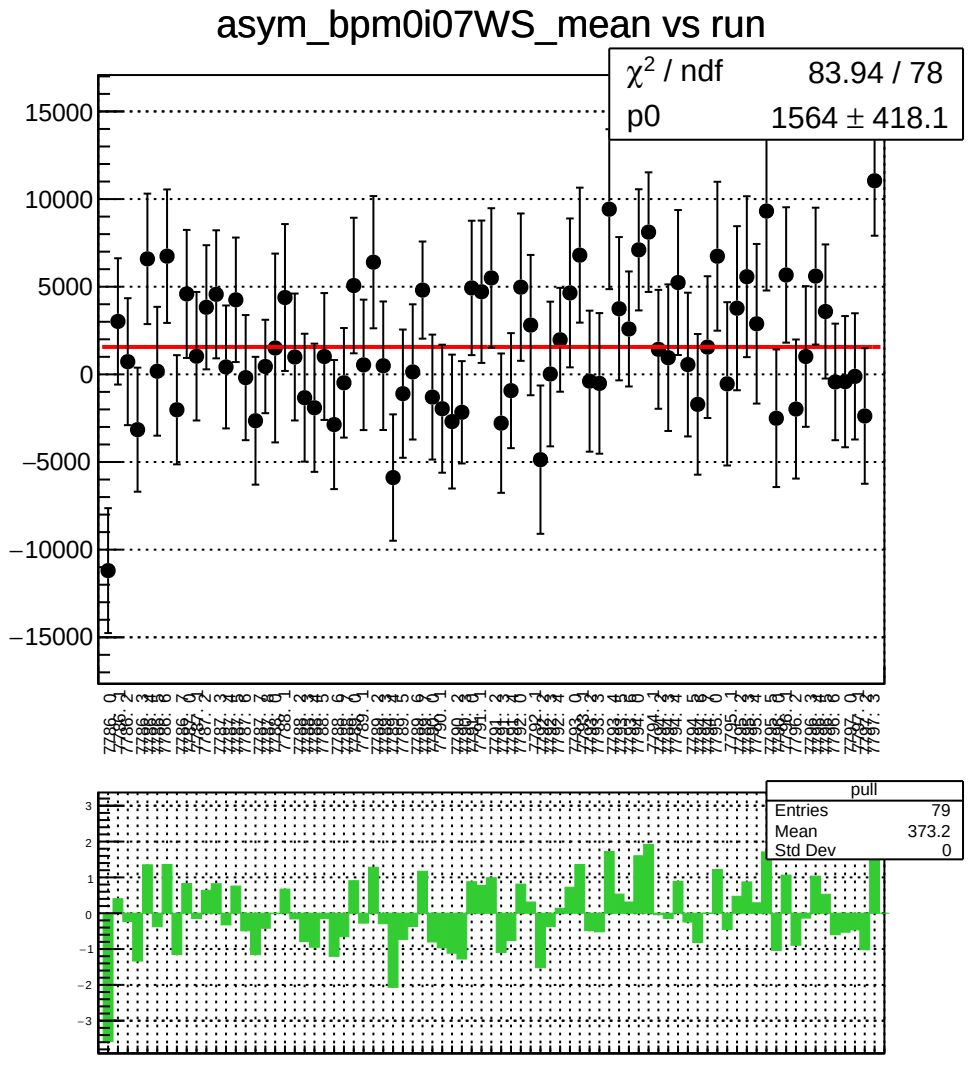

pull1D
Entries 79
Mean −1.549
Std Dev 2.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

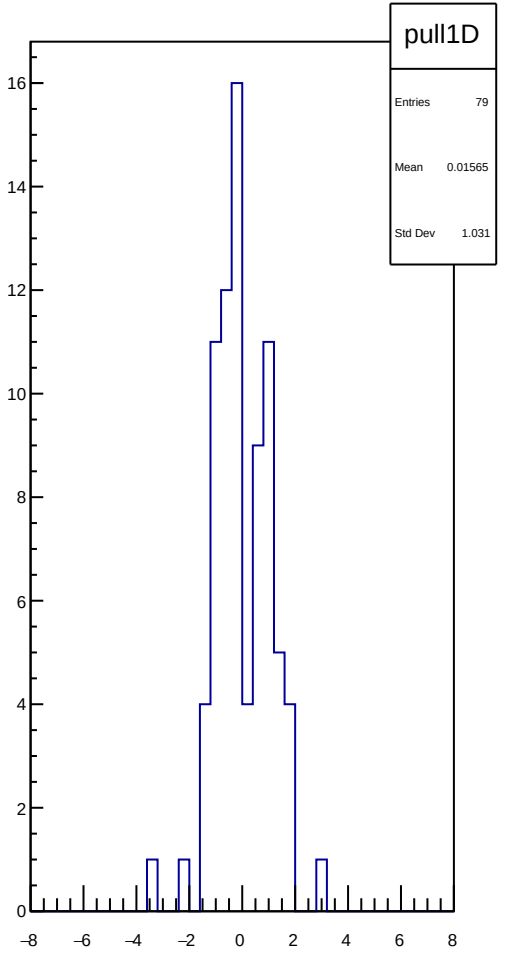

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.127e+04 / 78
p0 217.5 ± 0.1762
340
320
300
280
260
240
220
200
180
160

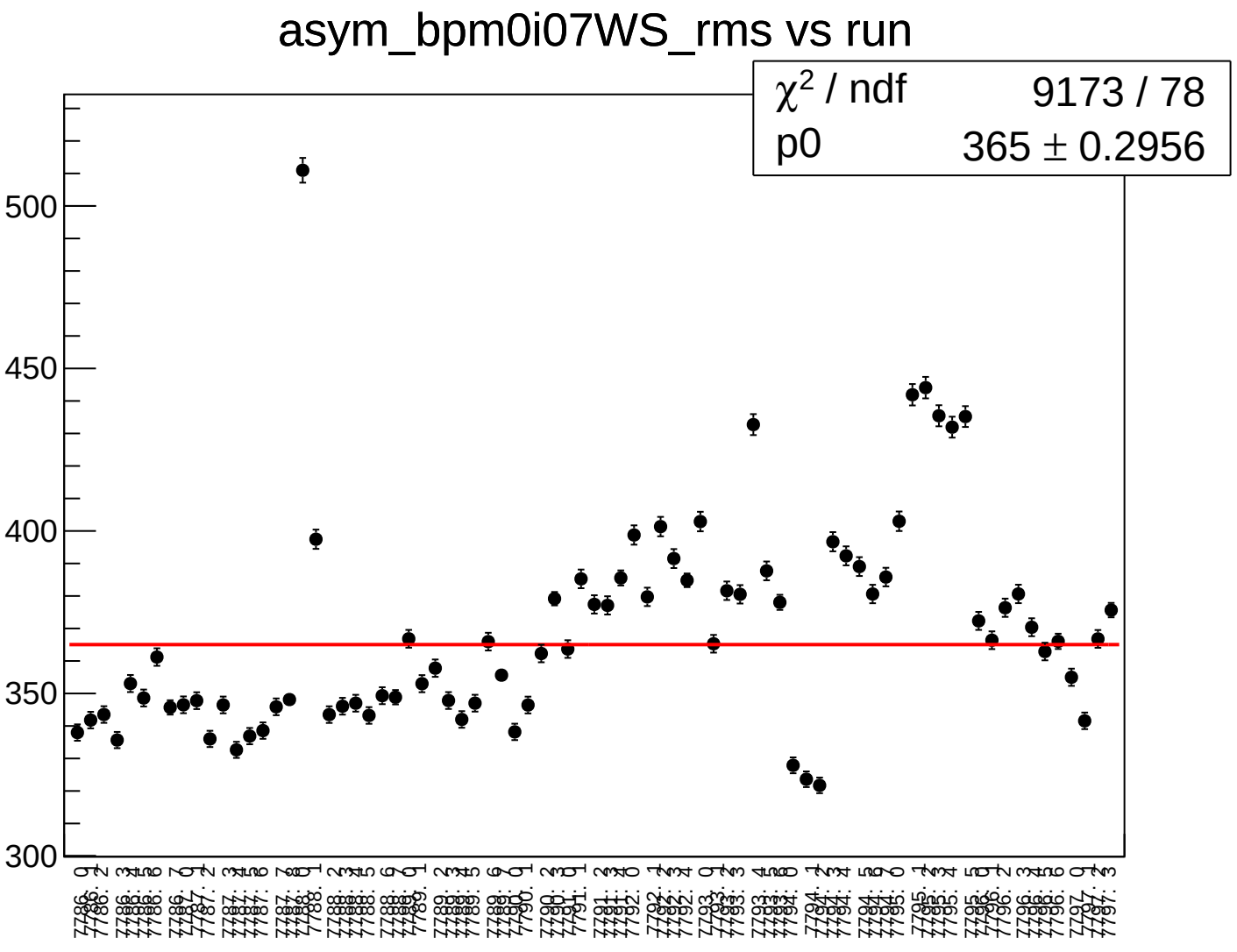

asym_bpm0i05WS_mean vs run
χ² / ndf 104.4 / 78
p0 2201 ± 374.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 379
Std Dev 0
3
2
1
0
−1
−2
−3
−4

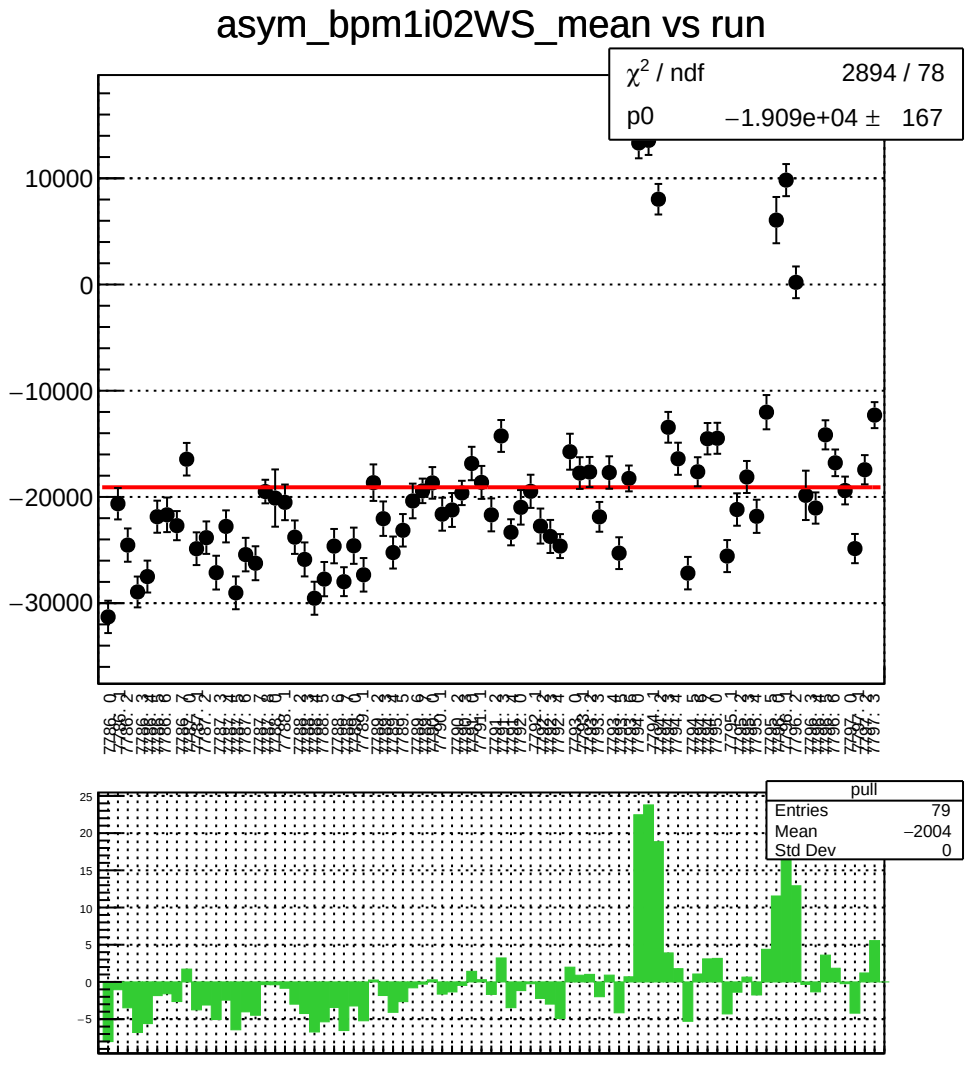

pull1D
Entries 79
Mean 0.02247
Std Dev 1.15
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

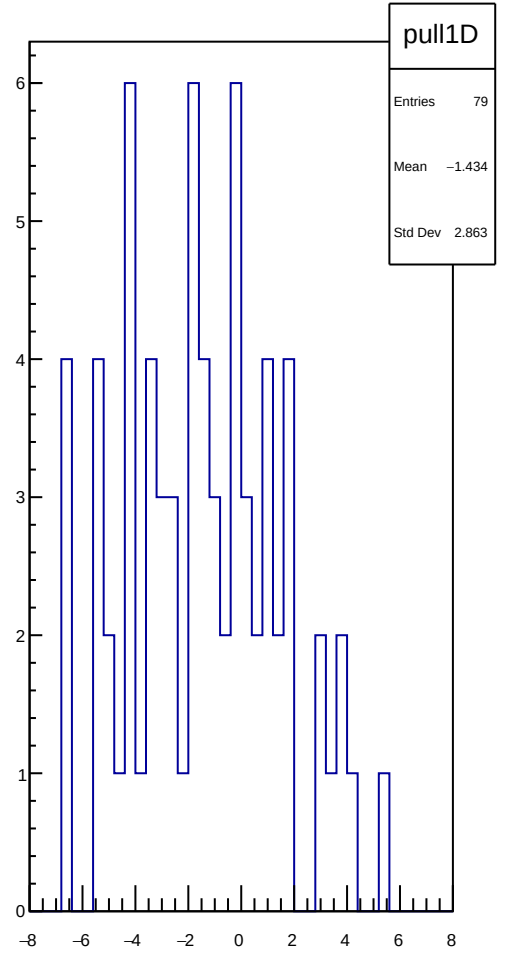

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1.114e+04 / 78
p0 327.1 ± 0.2651
550
500
450
400
350
300
250

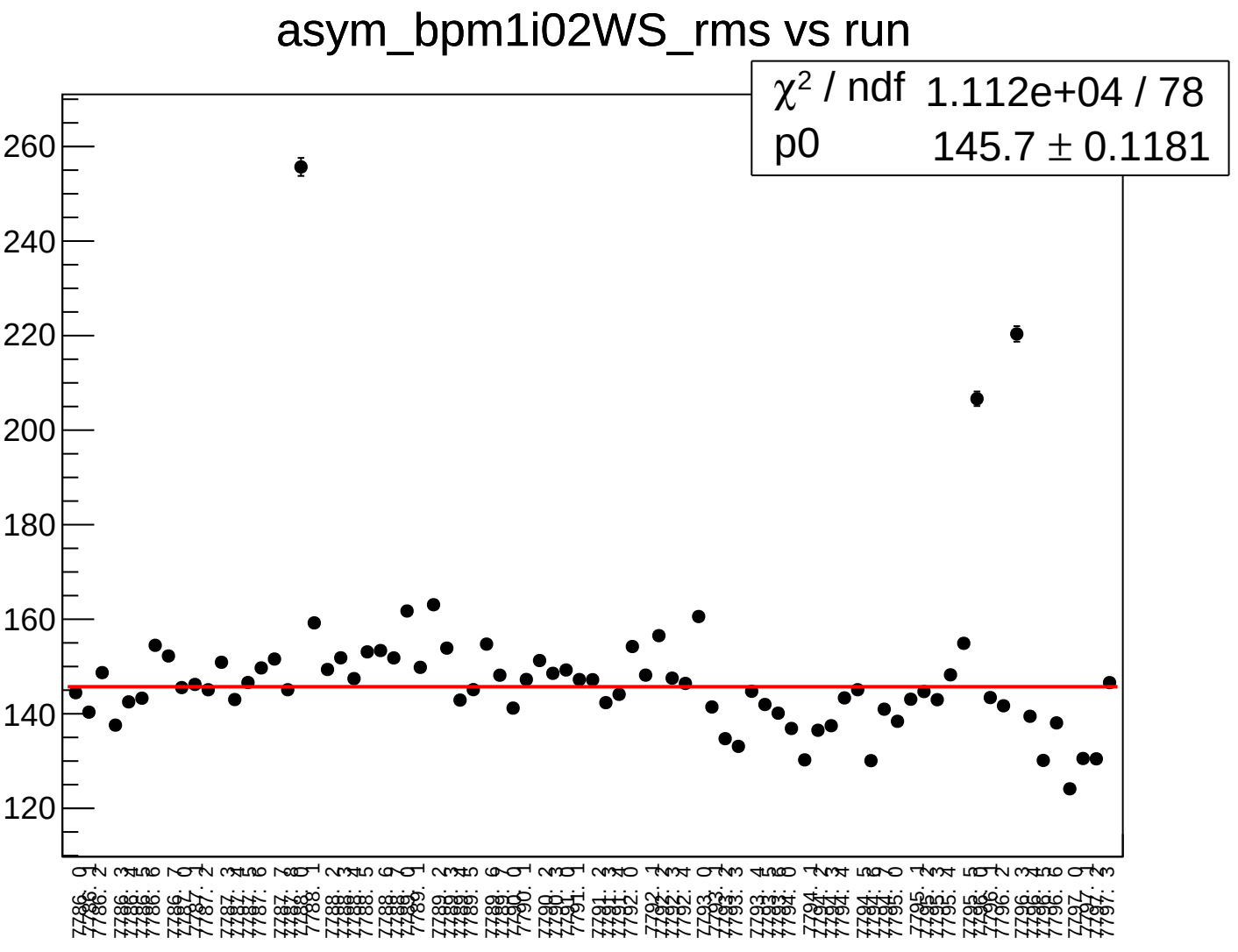

asym_bpm0i07WS_mean vs run
χ² / ndf 83.94 / 78
p0 1564 ± 418.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 373.2
Std Dev 0
3
2
1
0
−1
−2
−3

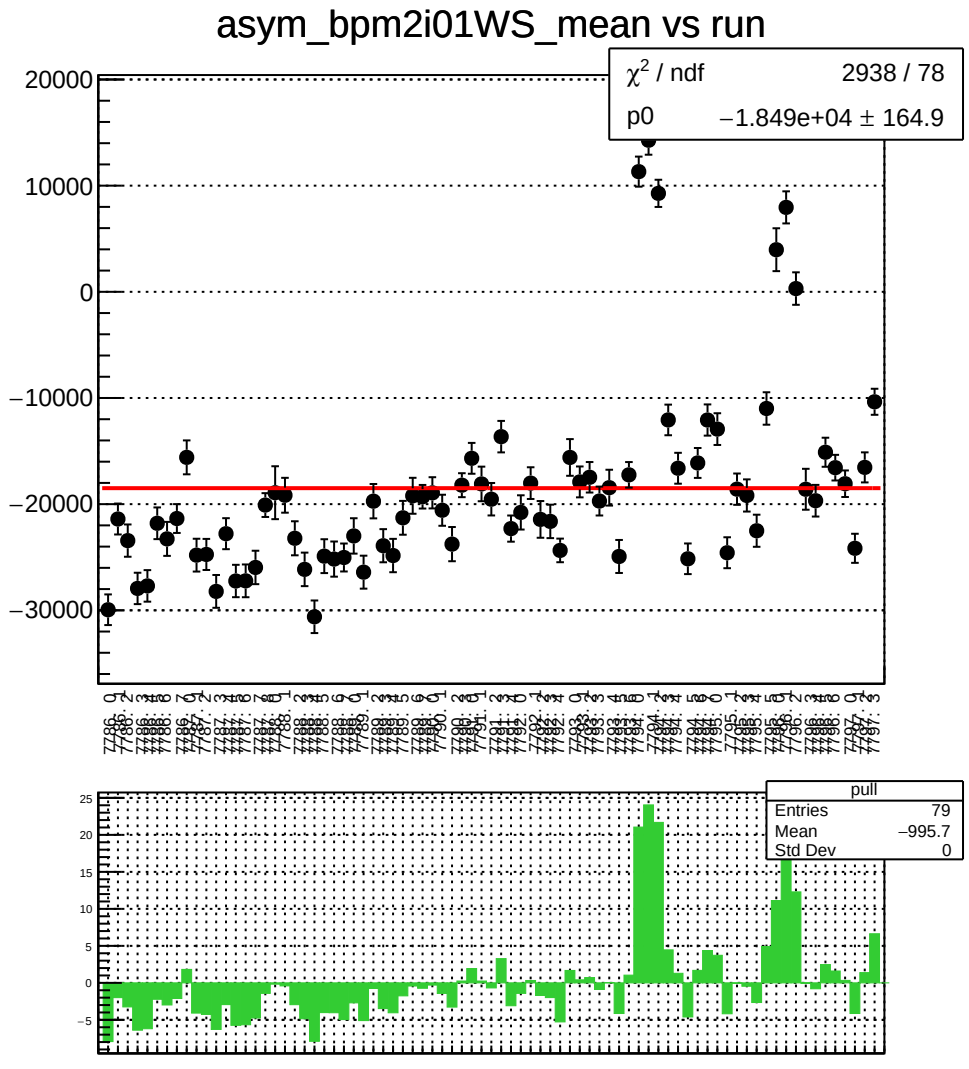

pull1D
Entries 79
Mean 0.01565
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

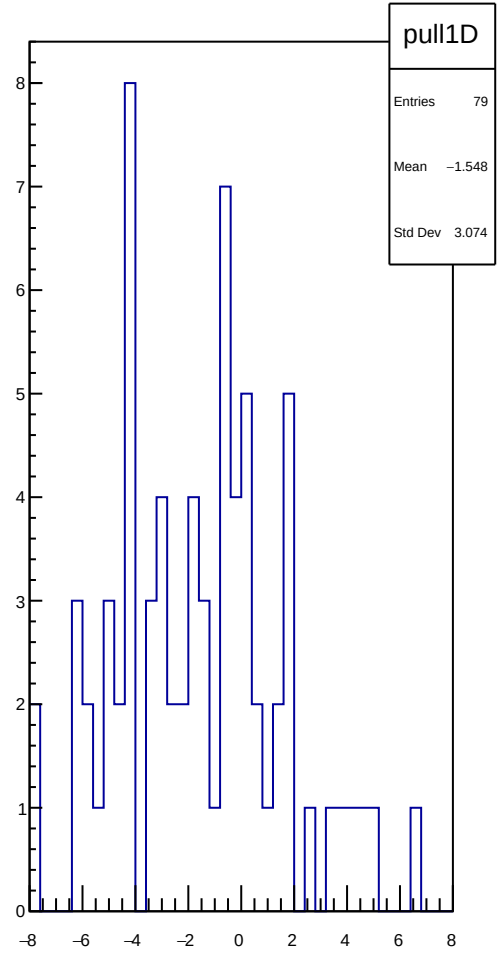

asym_bpm0i07WS_rms vs run
χ^2 / ndf 9173 / 78
p0 365 ± 0.2956
500
450
400
350
300

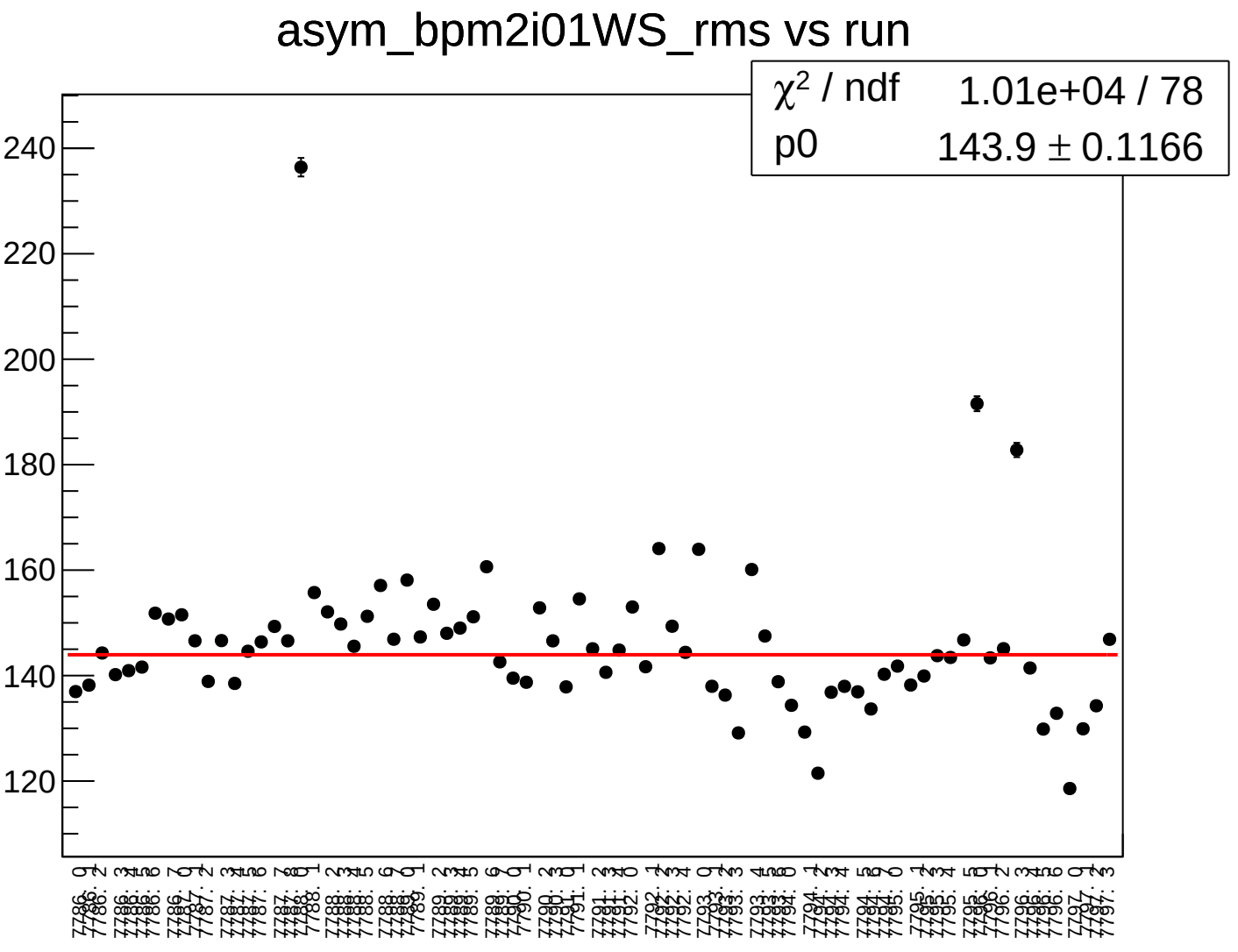

asym_bpm1i02WS_mean vs run
χ² / ndf 2894 / 78
p0 −1.909e+04 ± 167
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −2004
Std Dev 0
25
20
15
10
5
0
−5

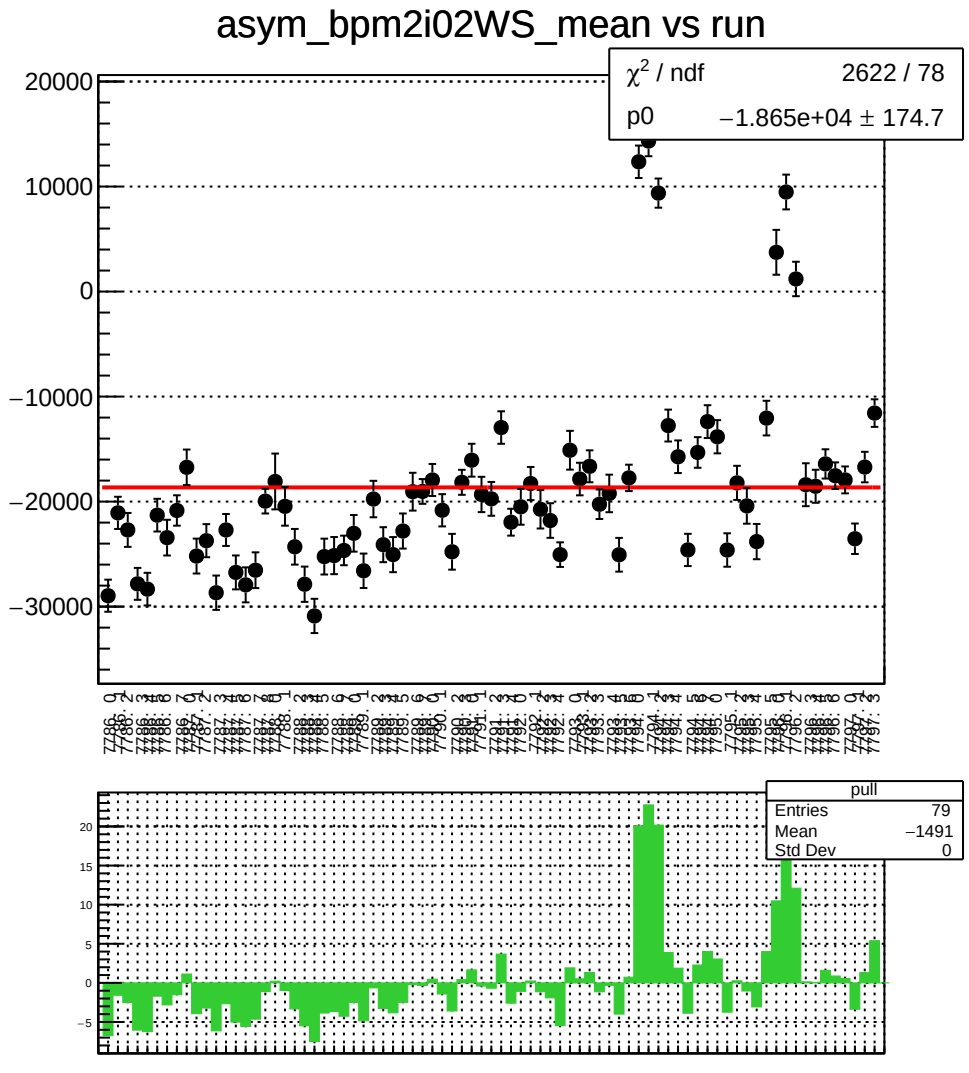

pull1D
Entries 79
Mean −1.434
Std Dev 2.863
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

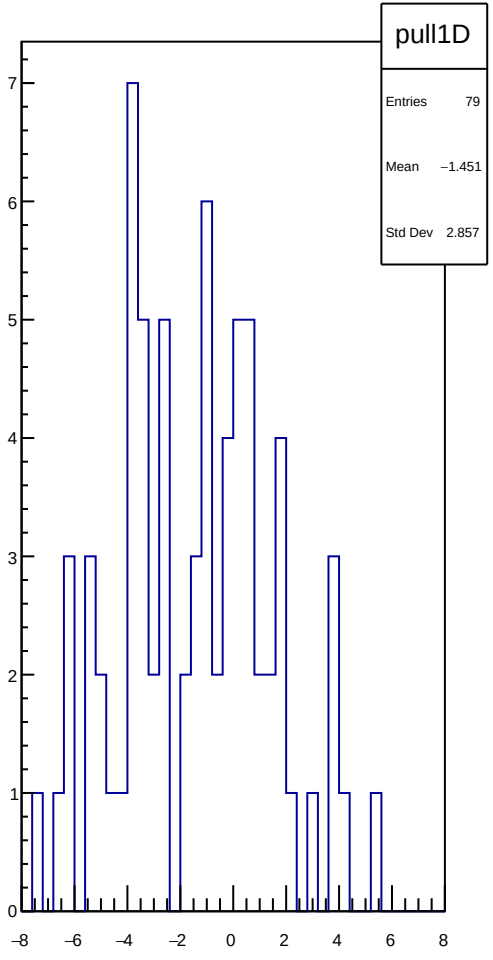

asym_bpm1i02WS_rms vs run
χ² / ndf 1.112e+04 / 78
p0 145.7 ± 0.1181
260
240
220
200
180
160
140
120

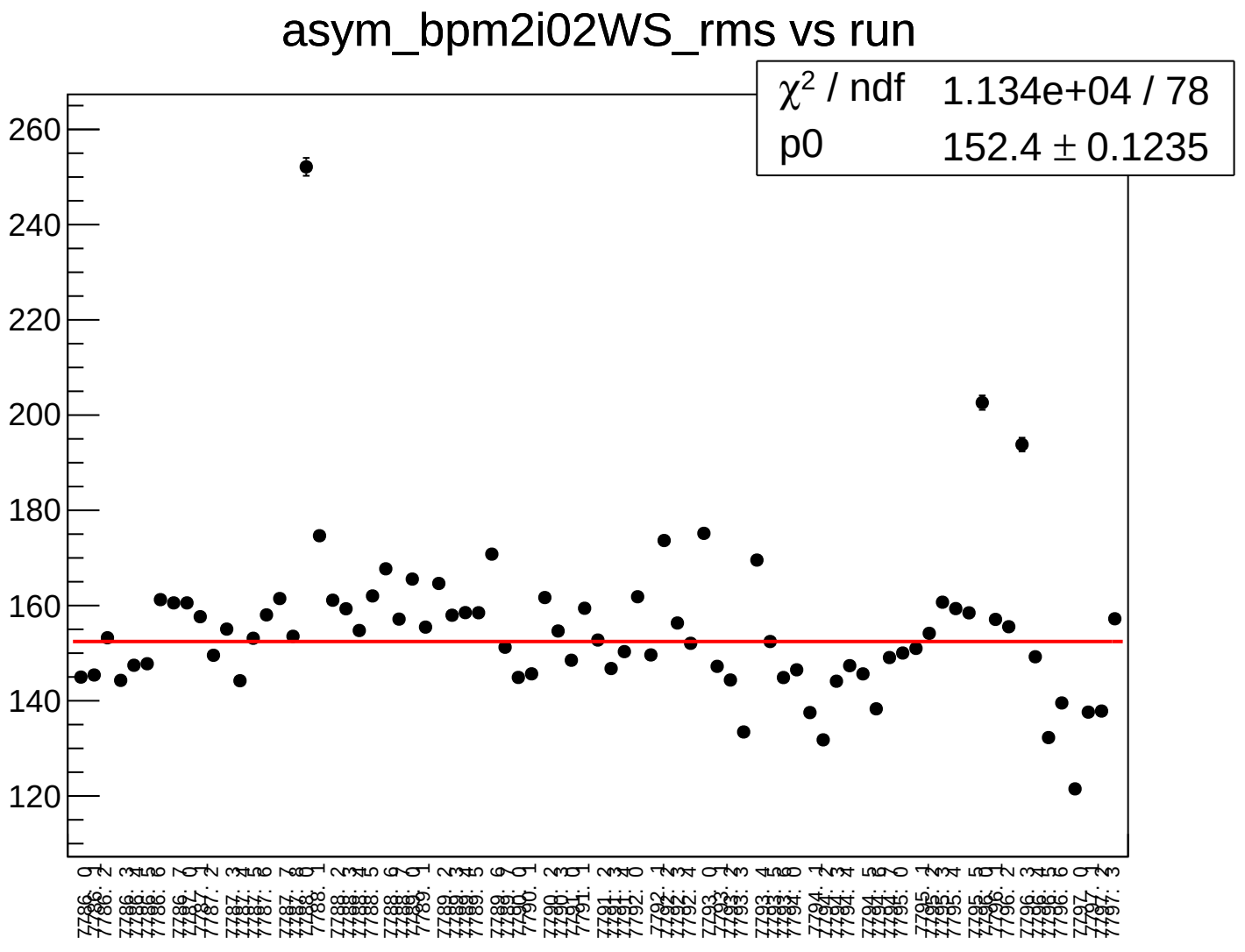

asym_bpm2i01WS_mean vs run
χ² / ndf 2938 / 78
p0 −1.849e+04 ± 164.9
pull
Entries 79
Mean −995.7
Std Dev 0

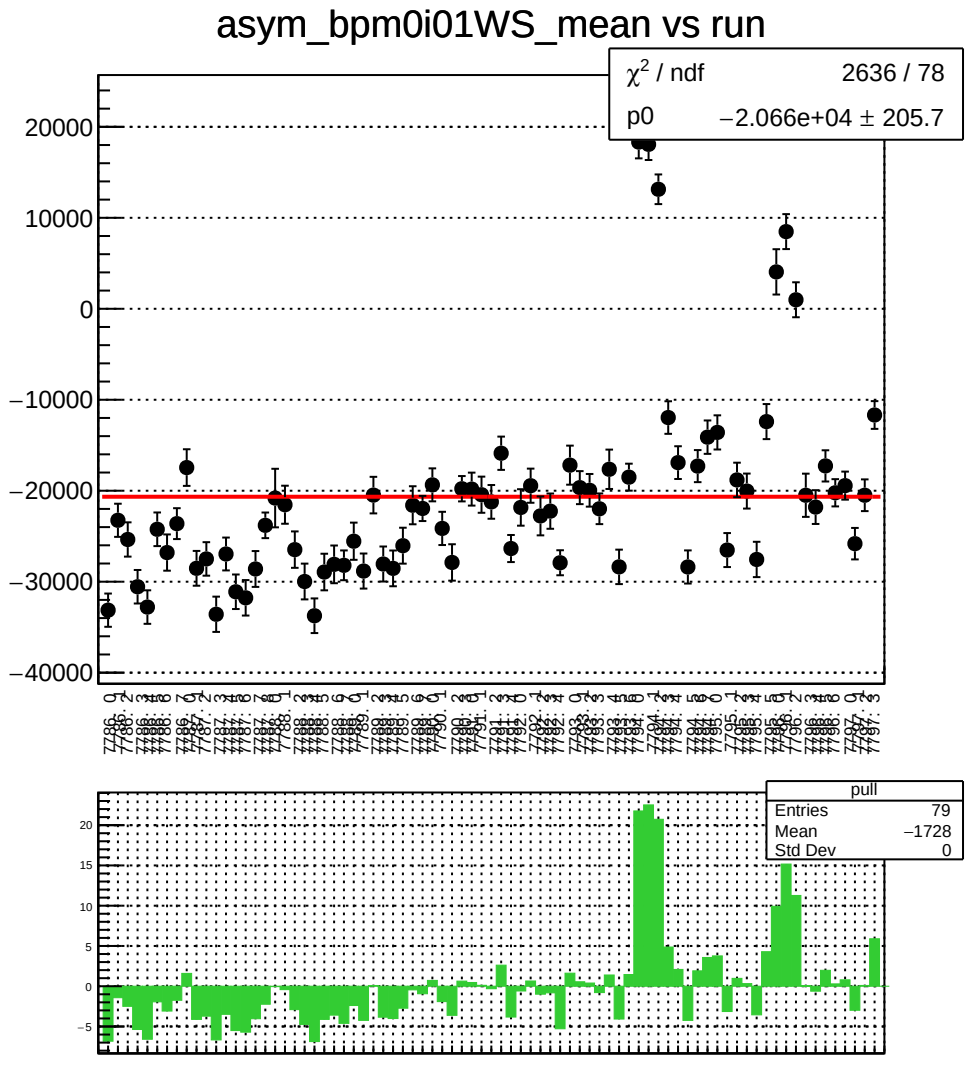

pull1D
Entries 79
Mean −1.548
Std Dev 3.074

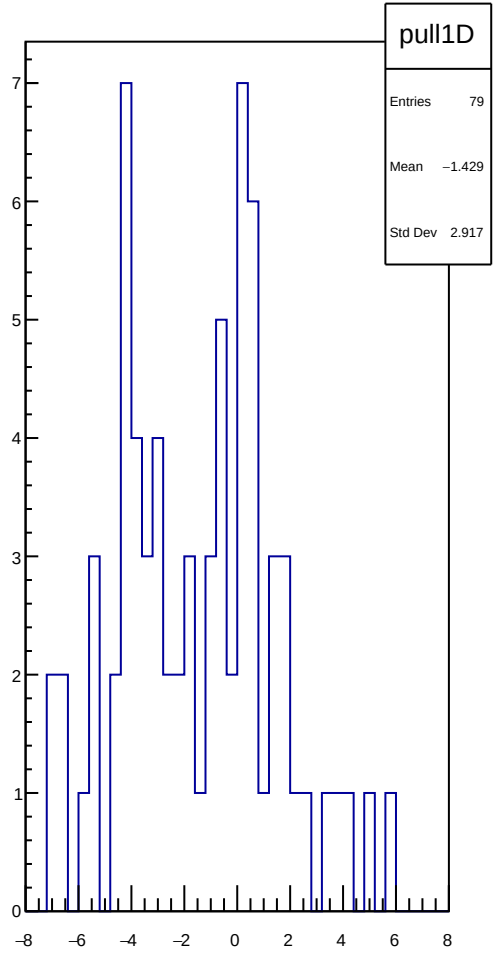

asym_bpm2i01WS_rms vs run
χ² / ndf 1.01e+04 / 78
p0 143.9 ± 0.1166
240
220
200
180
160
140
120

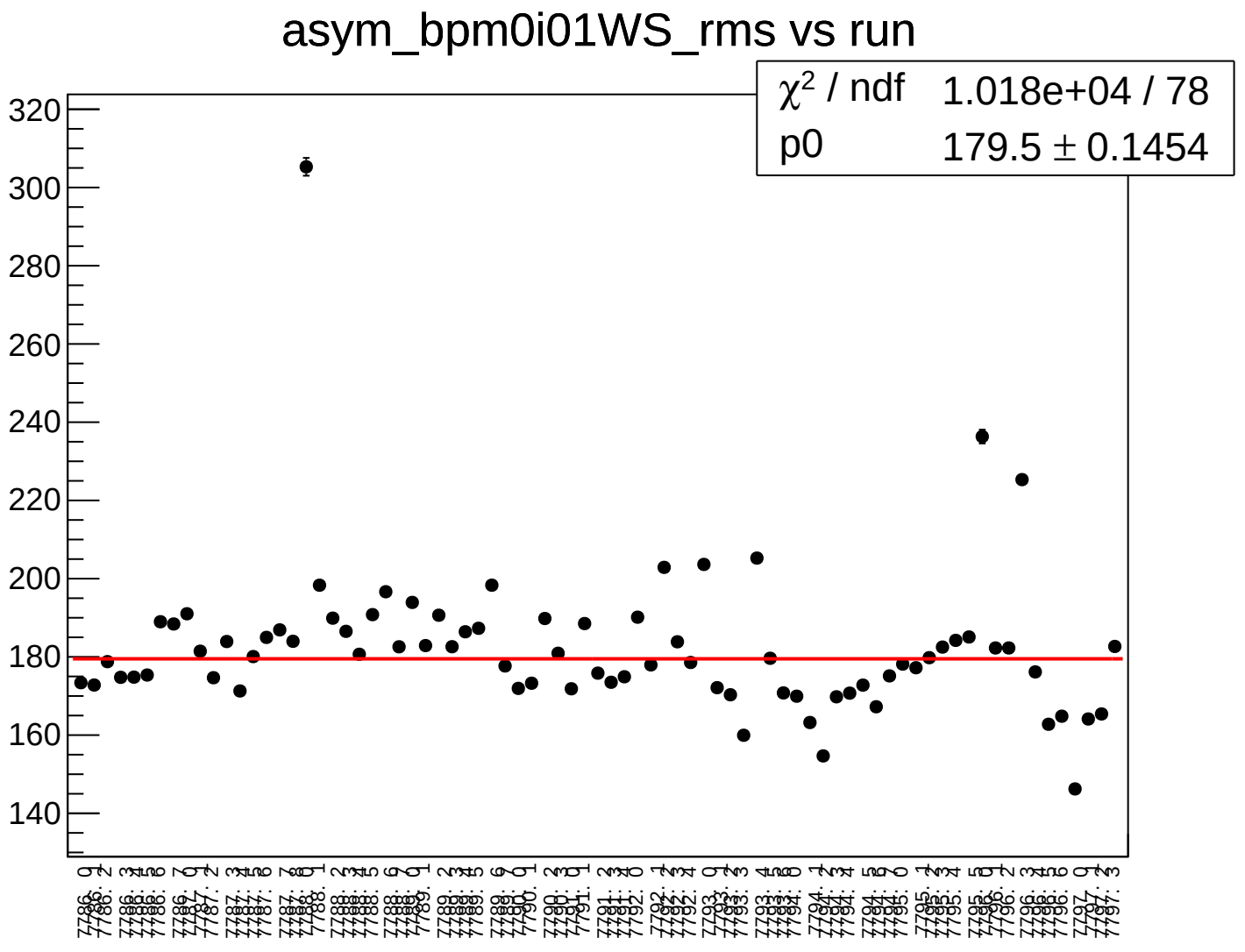

asym_bpm2i02WS_mean vs run
χ² / ndf 2622 / 78
p0 −1.865e+04 ± 174.7
pull
Entries 79
Mean −1491
Std Dev 0

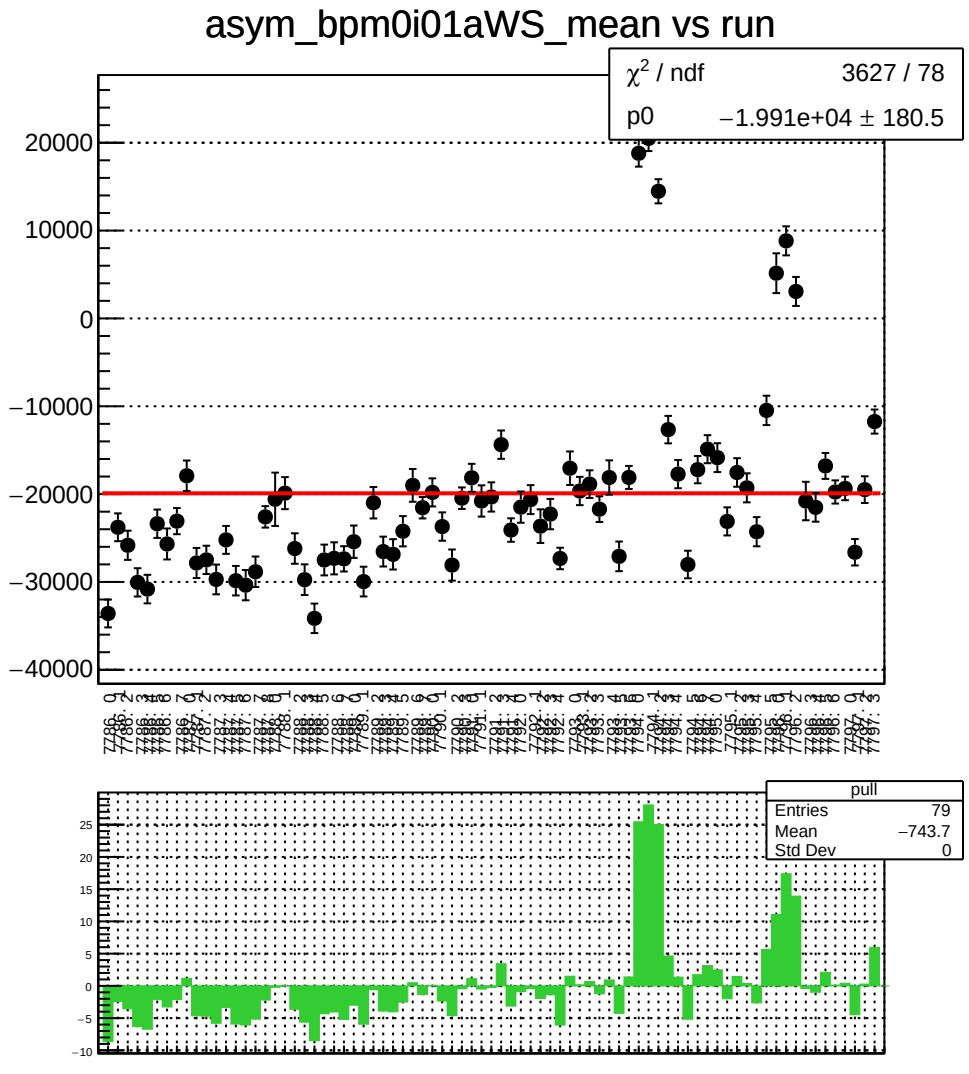

pull1D
Entries 79
Mean −1.451
Std Dev 2.857

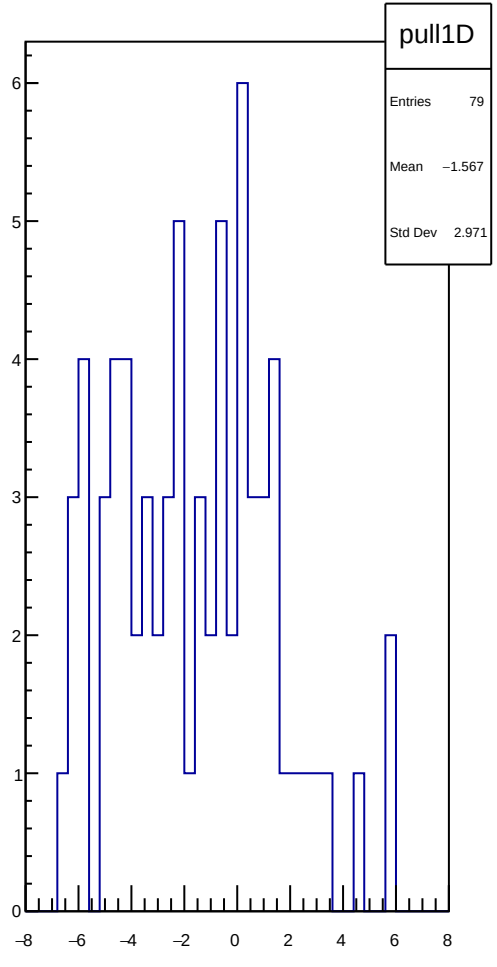

asym_bpm2i02WS_rms vs run
χ² / ndf 1.134e+04 / 78
p0 152.4 ± 0.1235
260
240
220
200
180
160
140
120

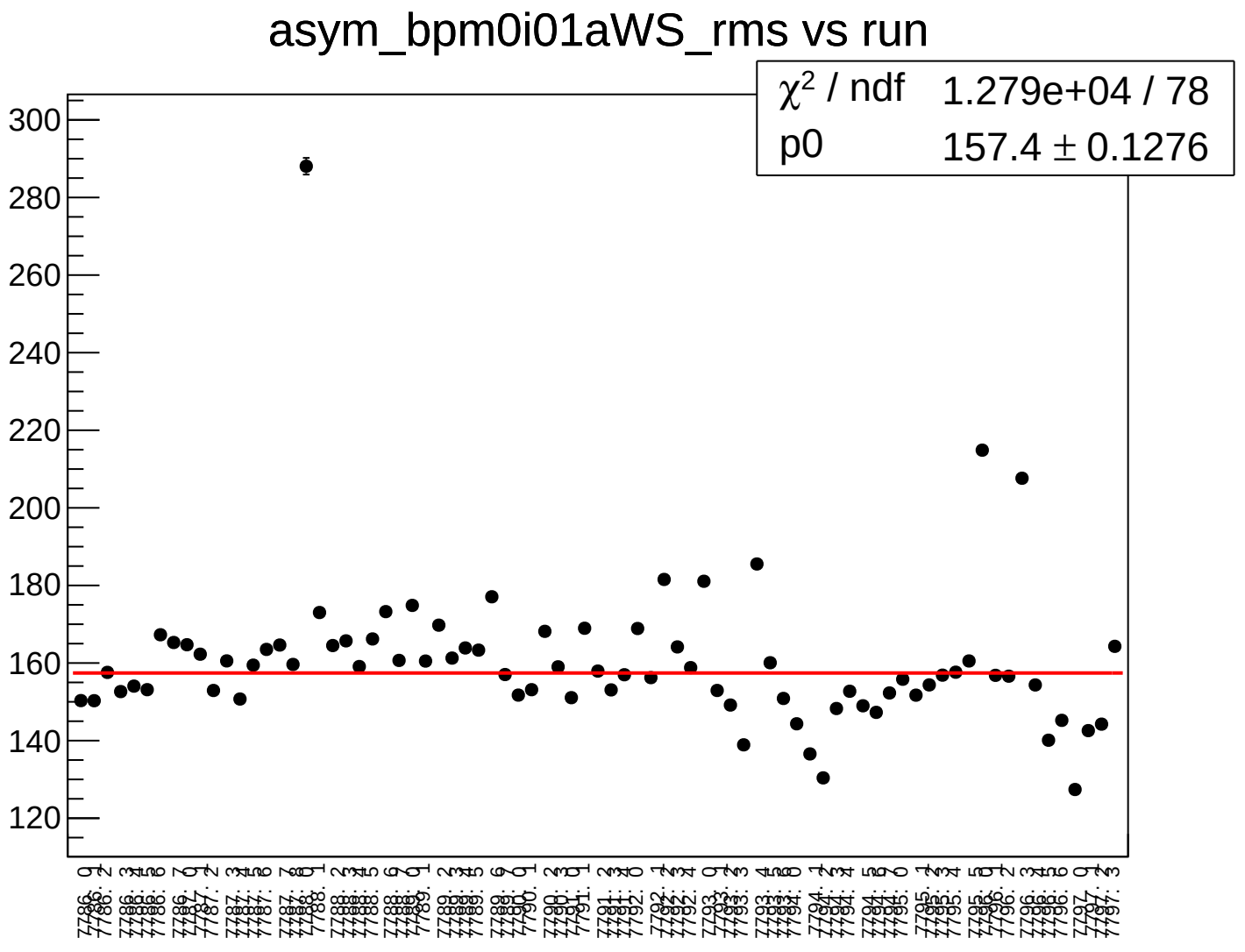

asym_bpm0i01WS_mean vs run
χ² / ndf 2636 / 78
p0 −2.066e+04 ± 205.7
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 79
Mean −1728
Std Dev 0
20
15
10
5
0
−5

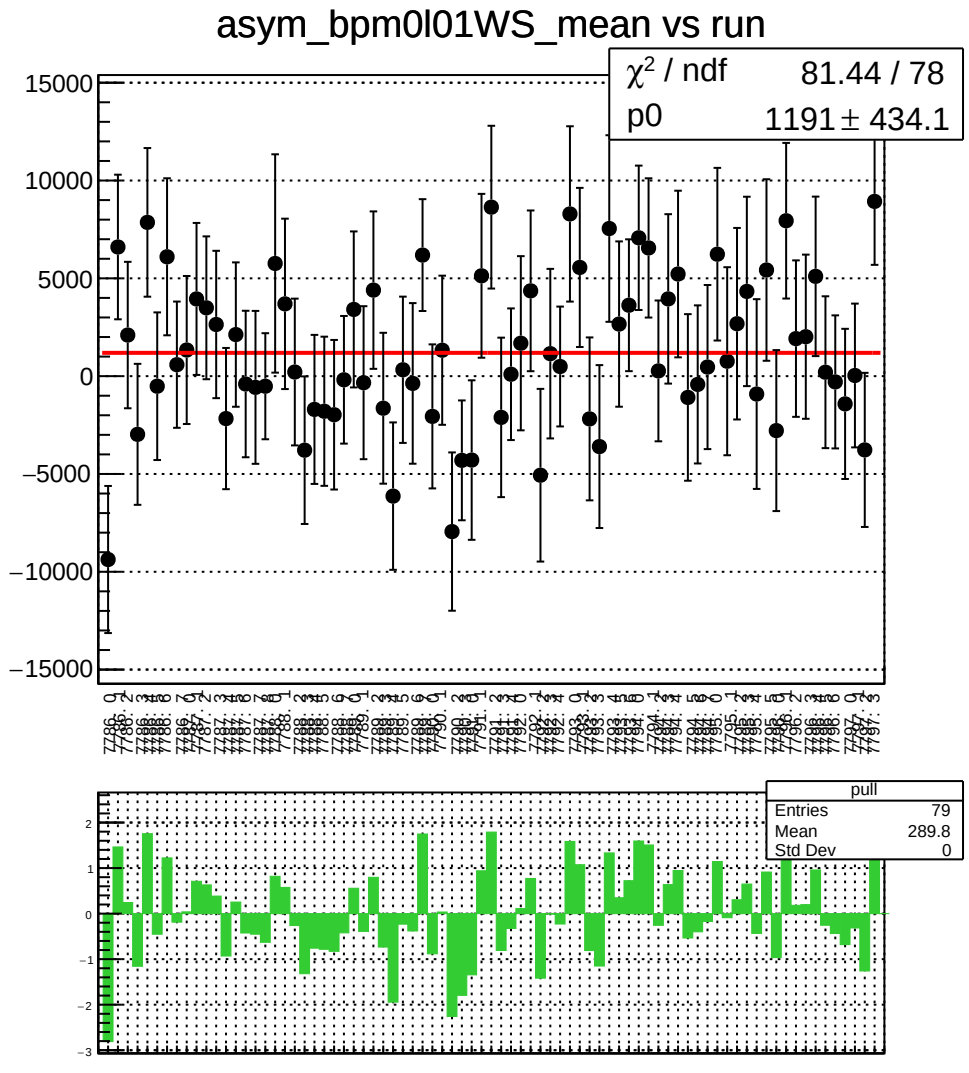

pull1D
Entries 79
Mean −1.429
Std Dev 2.917
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

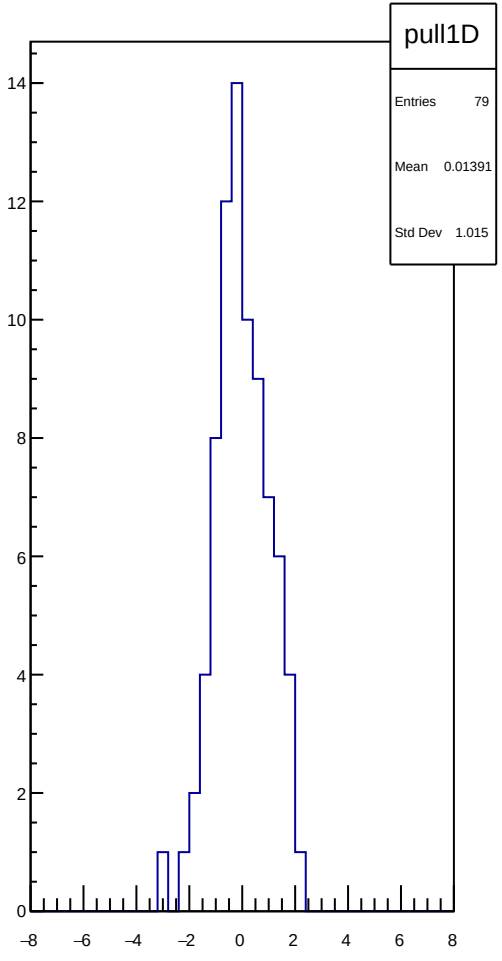

asym_bpm0i01WS_rms vs run
χ^2 / ndf 1.018e+04 / 78
p0 179.5 ± 0.1454
320
300
280
260
240
220
200
180
160
140

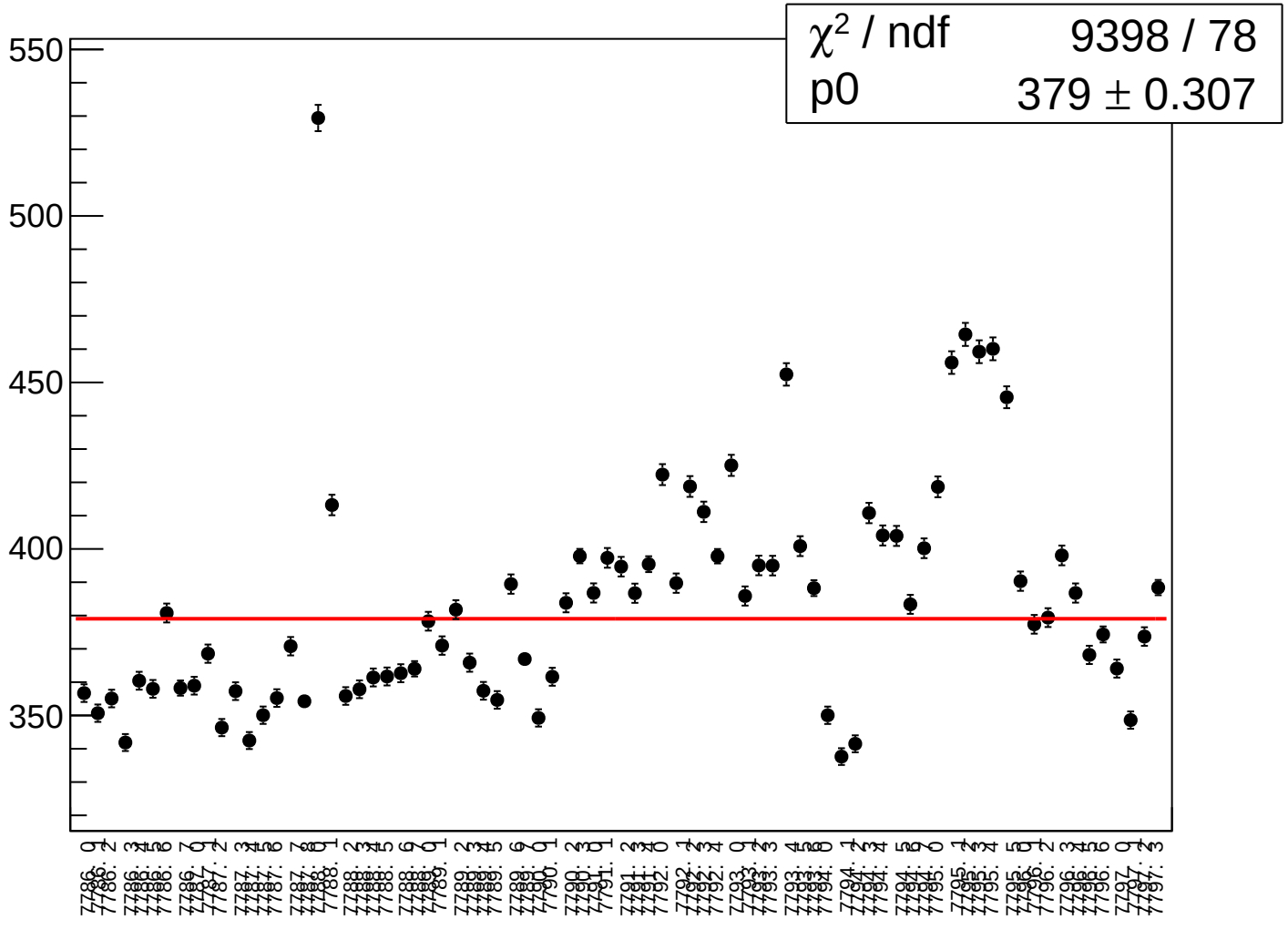

asym_bpm0i01aWS_mean vs run
χ² / ndf 3627 / 78
p0 −1.991e+04 ± 180.5
pull
Entries 79
Mean −743.7
Std Dev 0

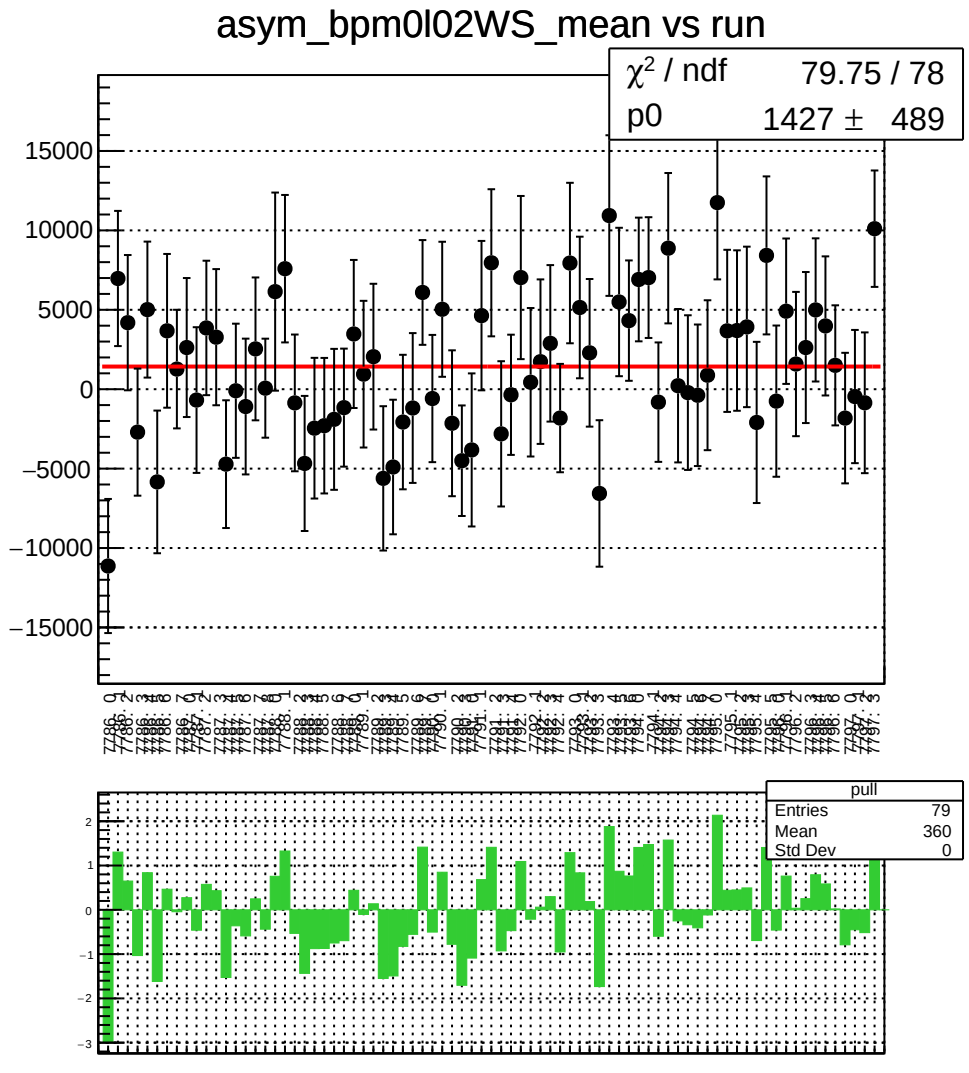

pull1D
Entries 79
Mean −1.567
Std Dev 2.971

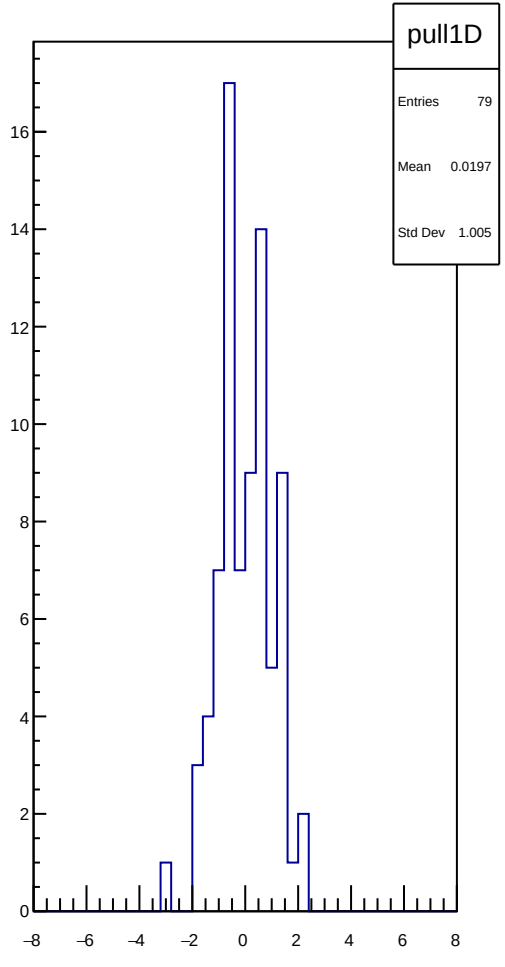

asym_bpm0i01aWS_rms vs run
χ² / ndf 1.279e+04 / 78
p0 157.4 ± 0.1276
300
280
260
240
220
200
180
160
140
120

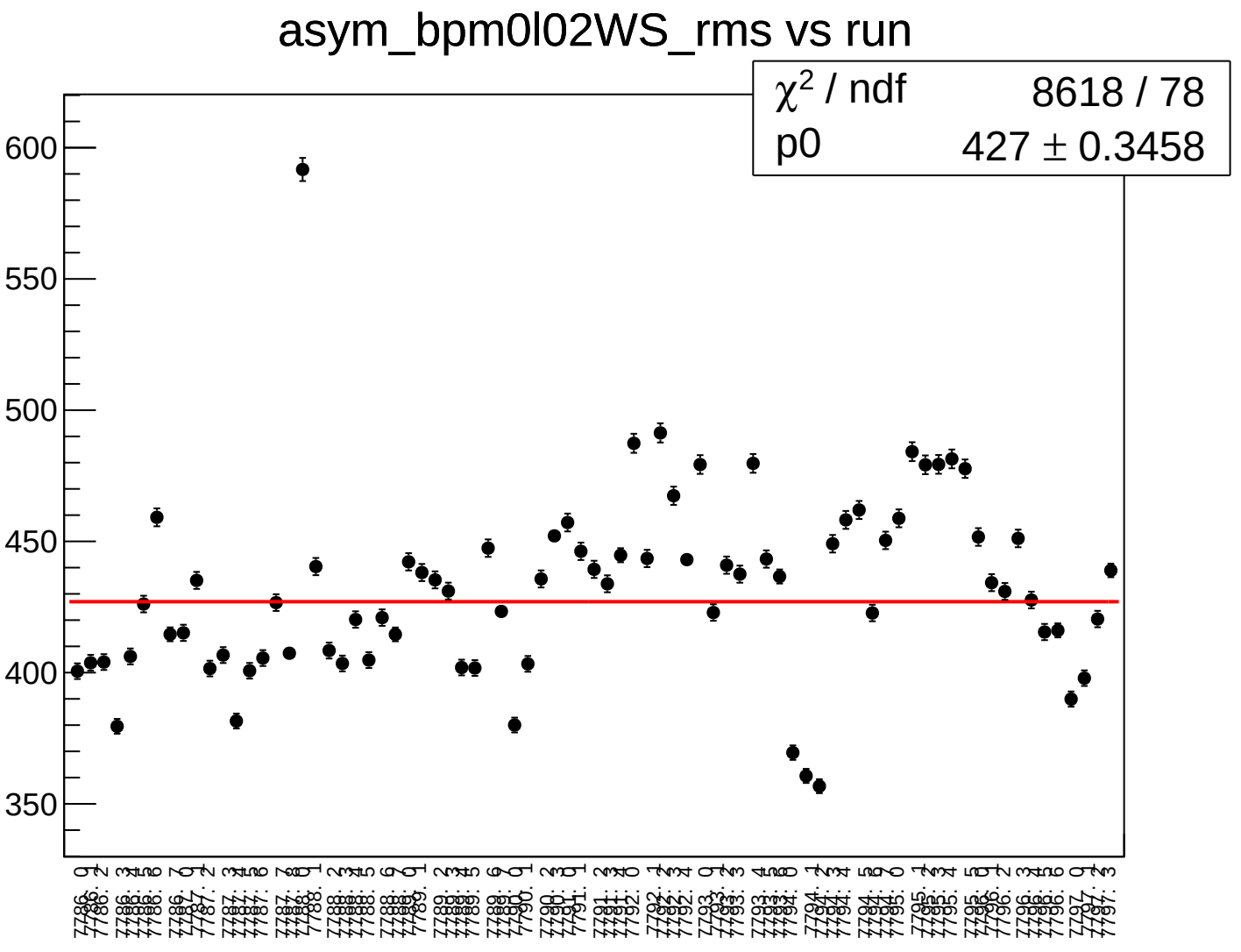

asym_bpm0l01WS_mean vs run
χ² / ndf 81.44 / 78
p0 1191 ± 434.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 289.8
Std Dev 0
2
1
0
−1
−2
−3

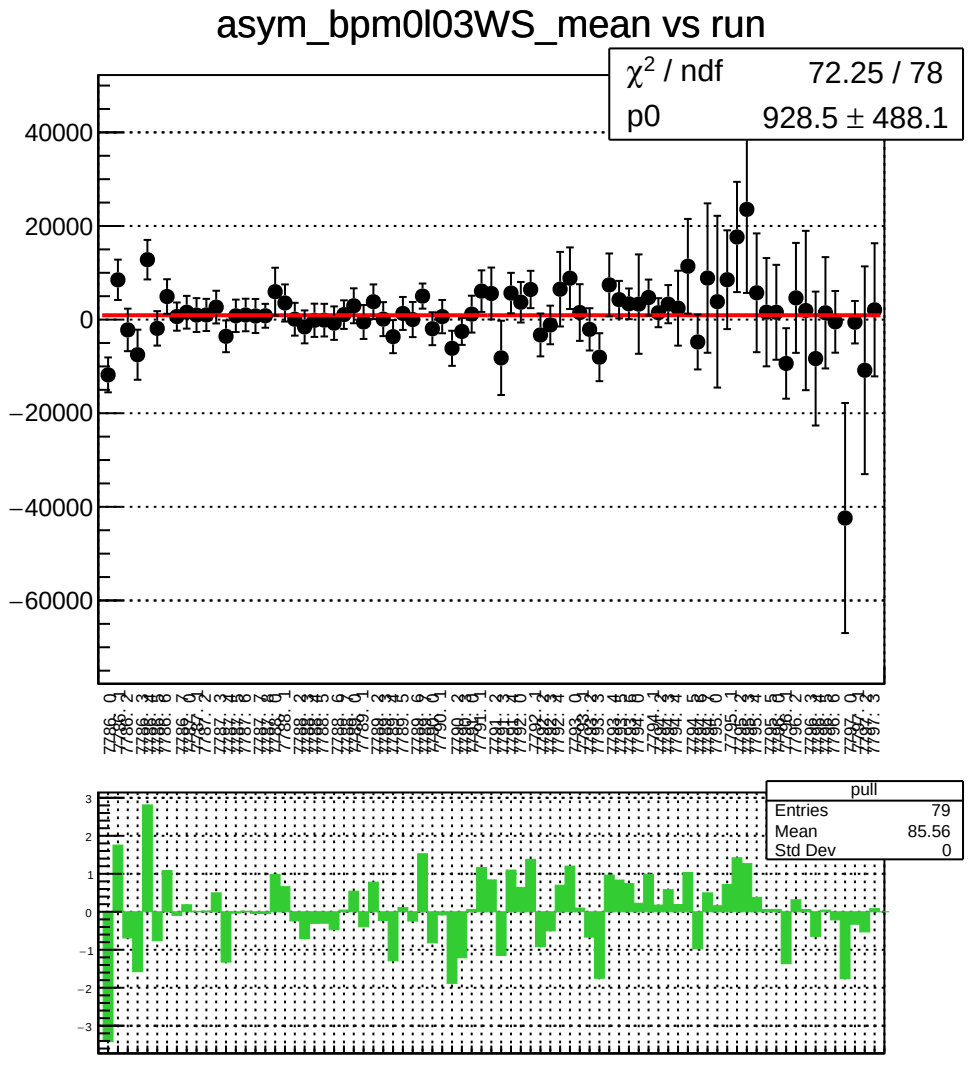

pull1D
Entries 79
Mean 0.01391
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

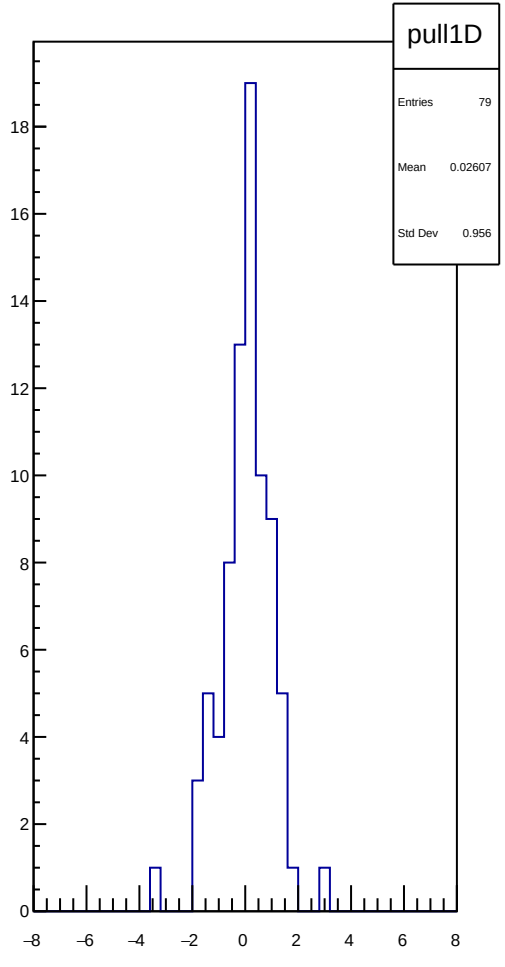

asym_bpm0l01WS_rms vs run
χ^2 / ndf 9398 / 78
p0 379 ± 0.307
550
500
450
400
350

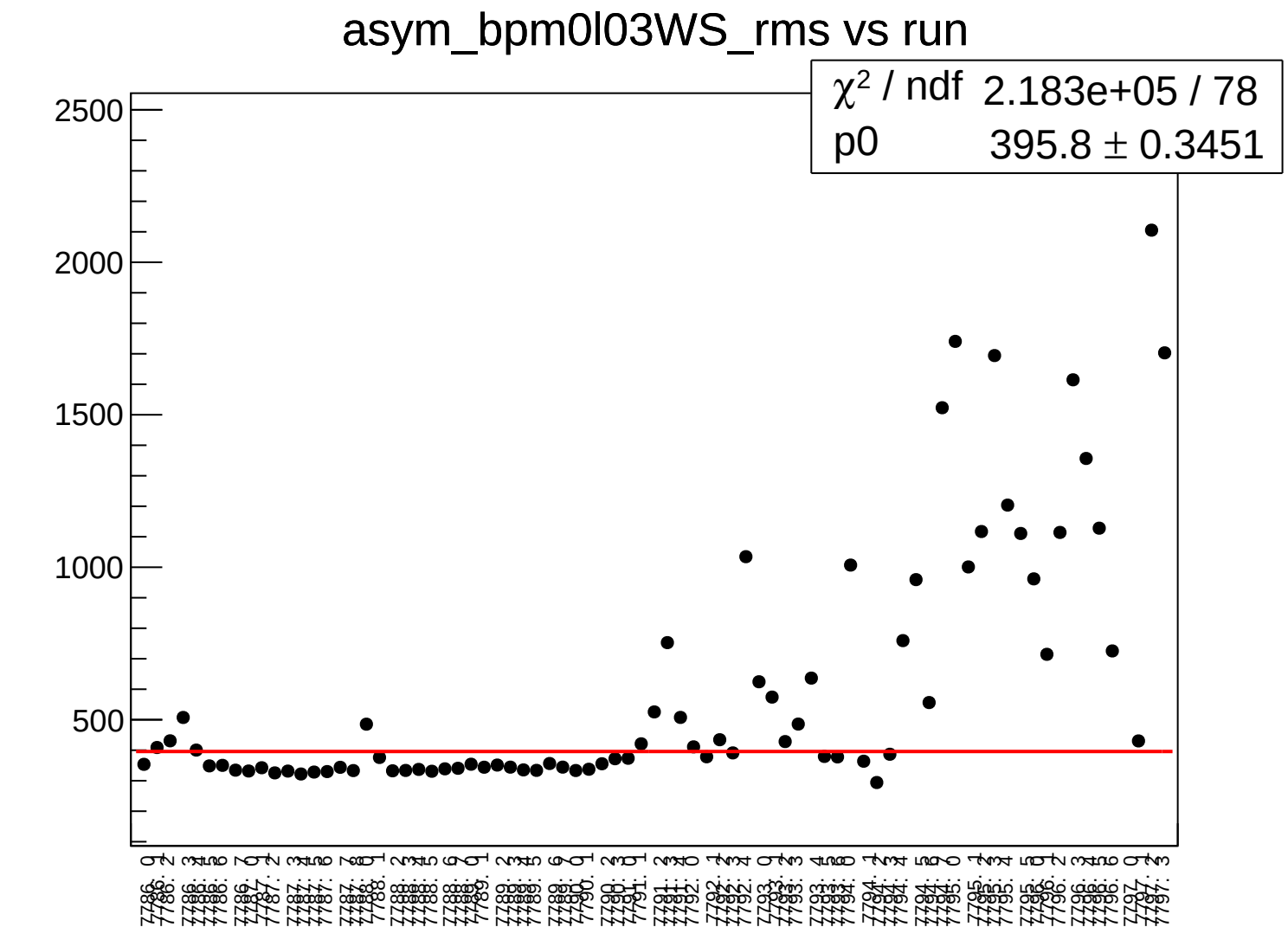

asym_bpm0l02WS_mean vs run
χ² / ndf 79.75 / 78
p0 1427 ± 489
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 360
Std Dev 0
2
1
0
−1
−2
−3

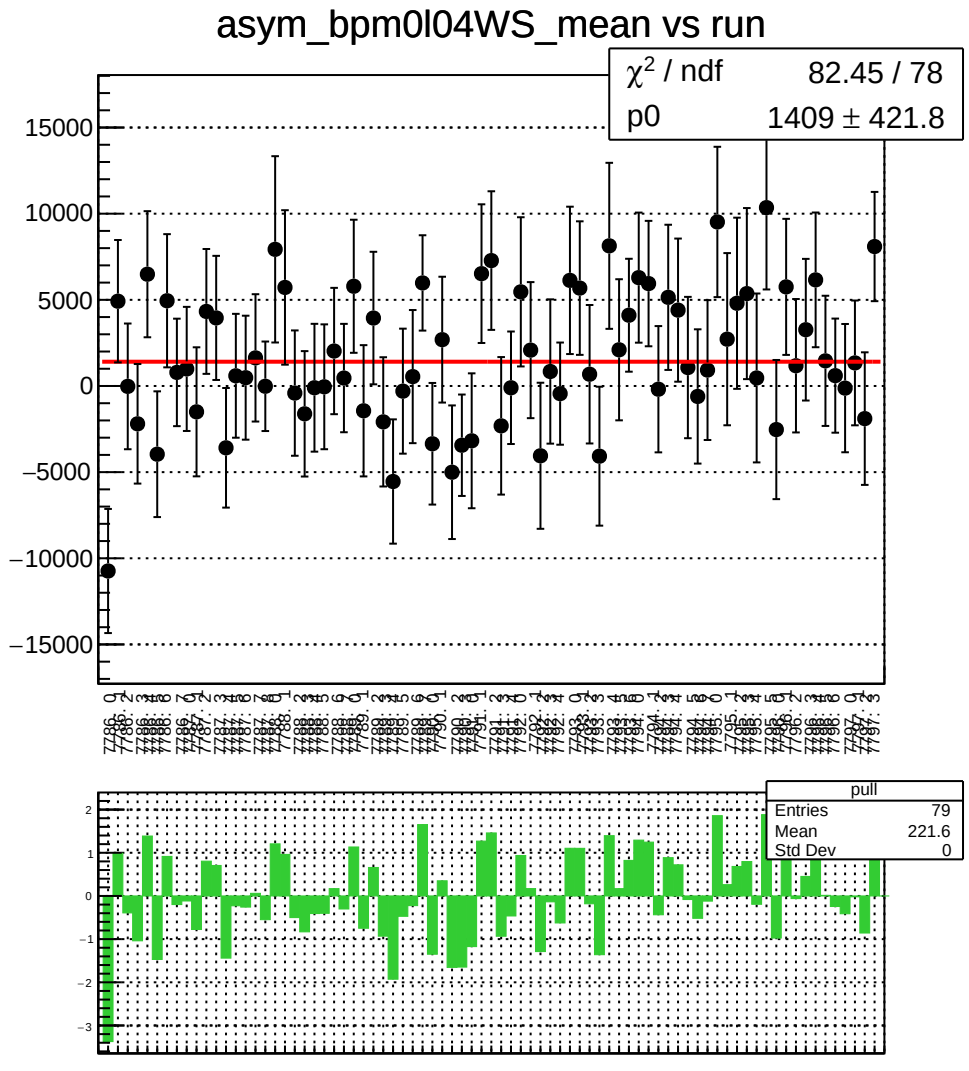

pull1D
Entries 79
Mean 0.0197
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

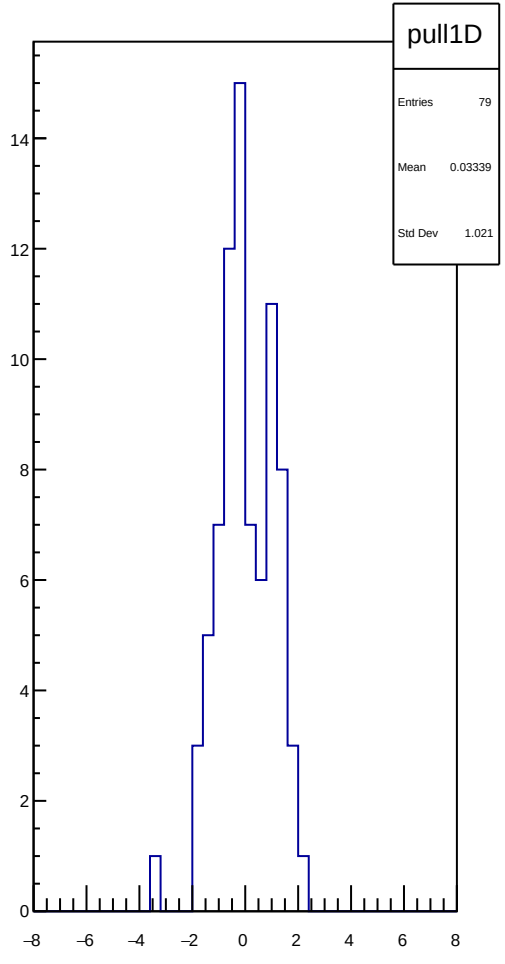

asym_bpm0l02WS_rms vs run
χ^2 / ndf 8618 / 78
p0 427 ± 0.3458
600
550
500
450
400
350

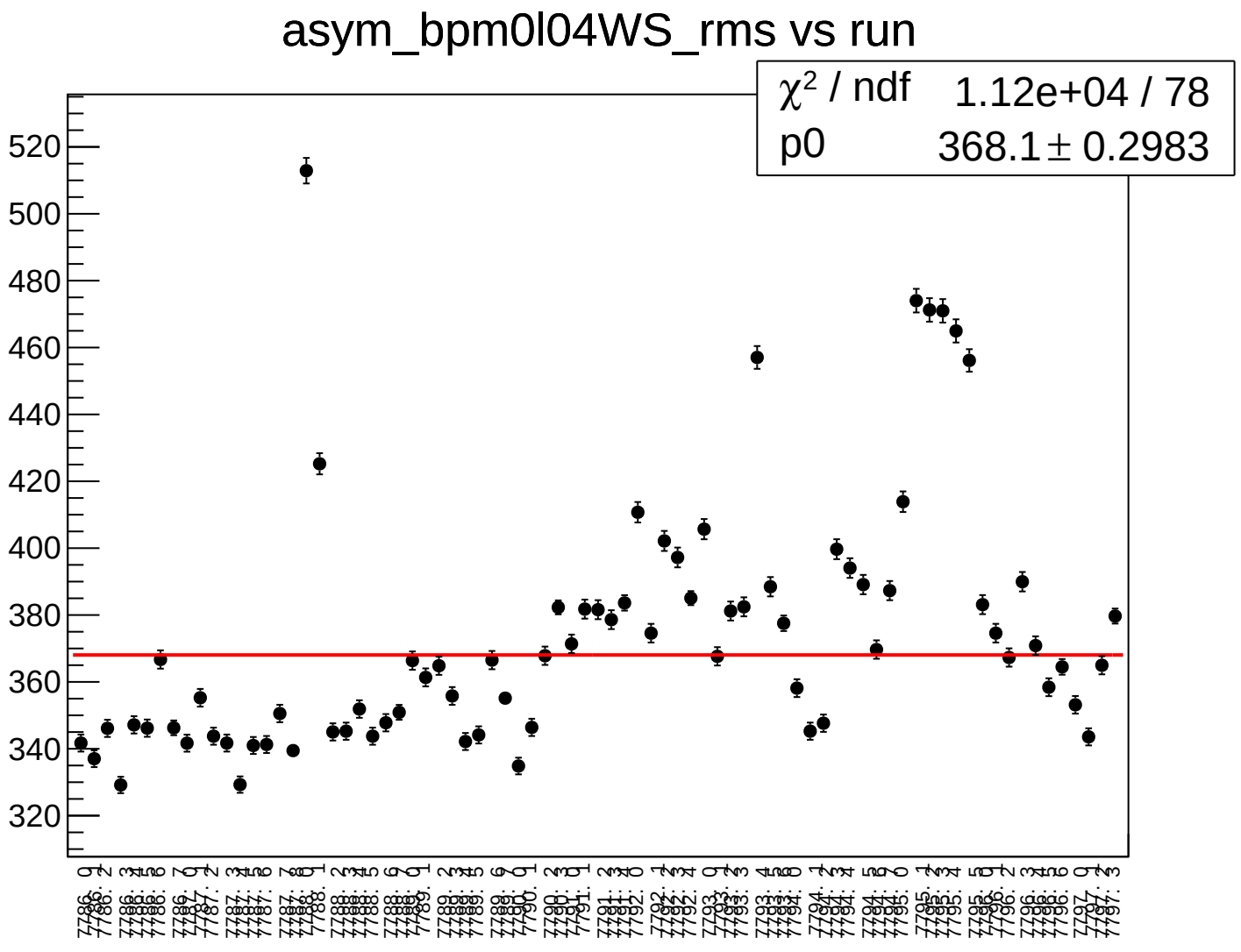

asym_bpm0l03WS_mean vs run
χ² / ndf 72.25 / 78
p0 928.5 ± 488.1
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean 85.56
Std Dev 0
3
2
1
0
−1
−2
−3

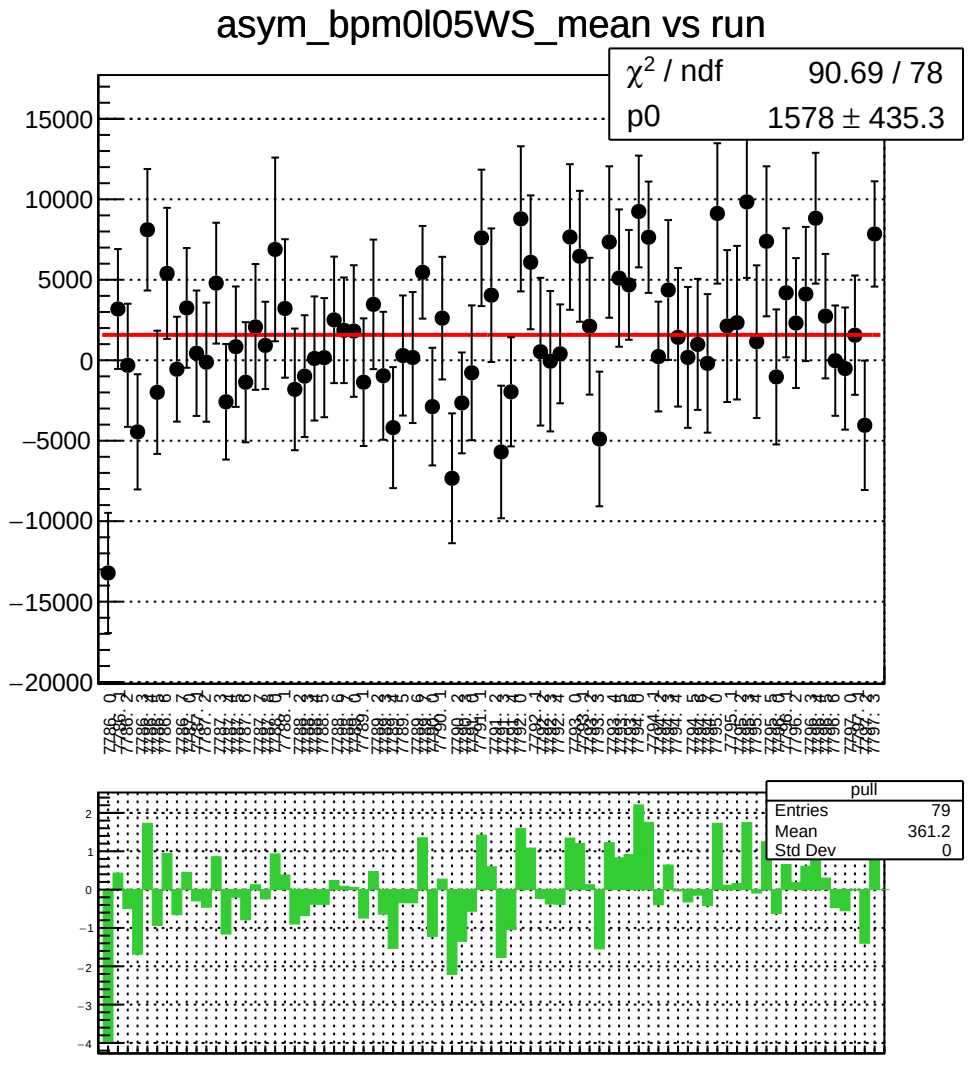

pull1D
Entries 79
Mean 0.02607
Std Dev 0.956
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

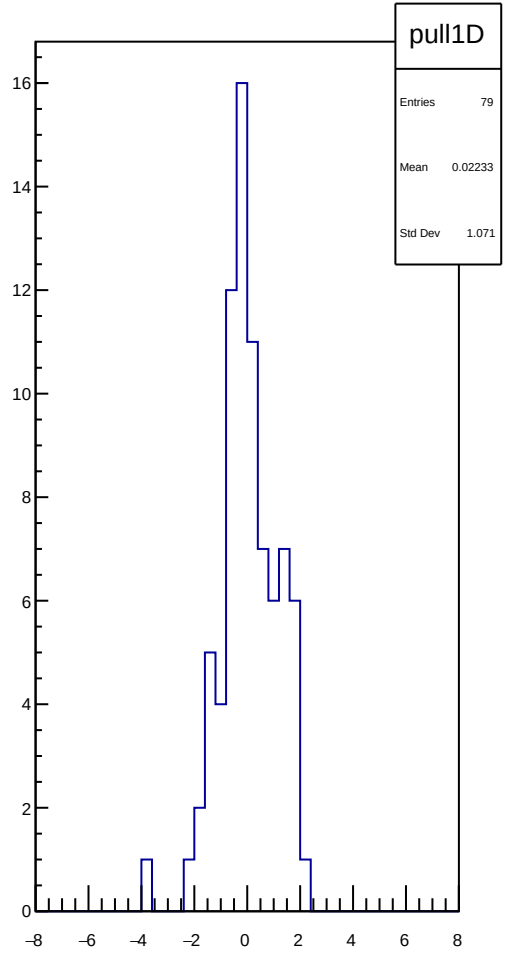

asym_bpm0l03WS_rms vs run
χ² / ndf 2.183e+05 / 78
p0 395.8 ± 0.3451
2500
2000
1500
1000
500

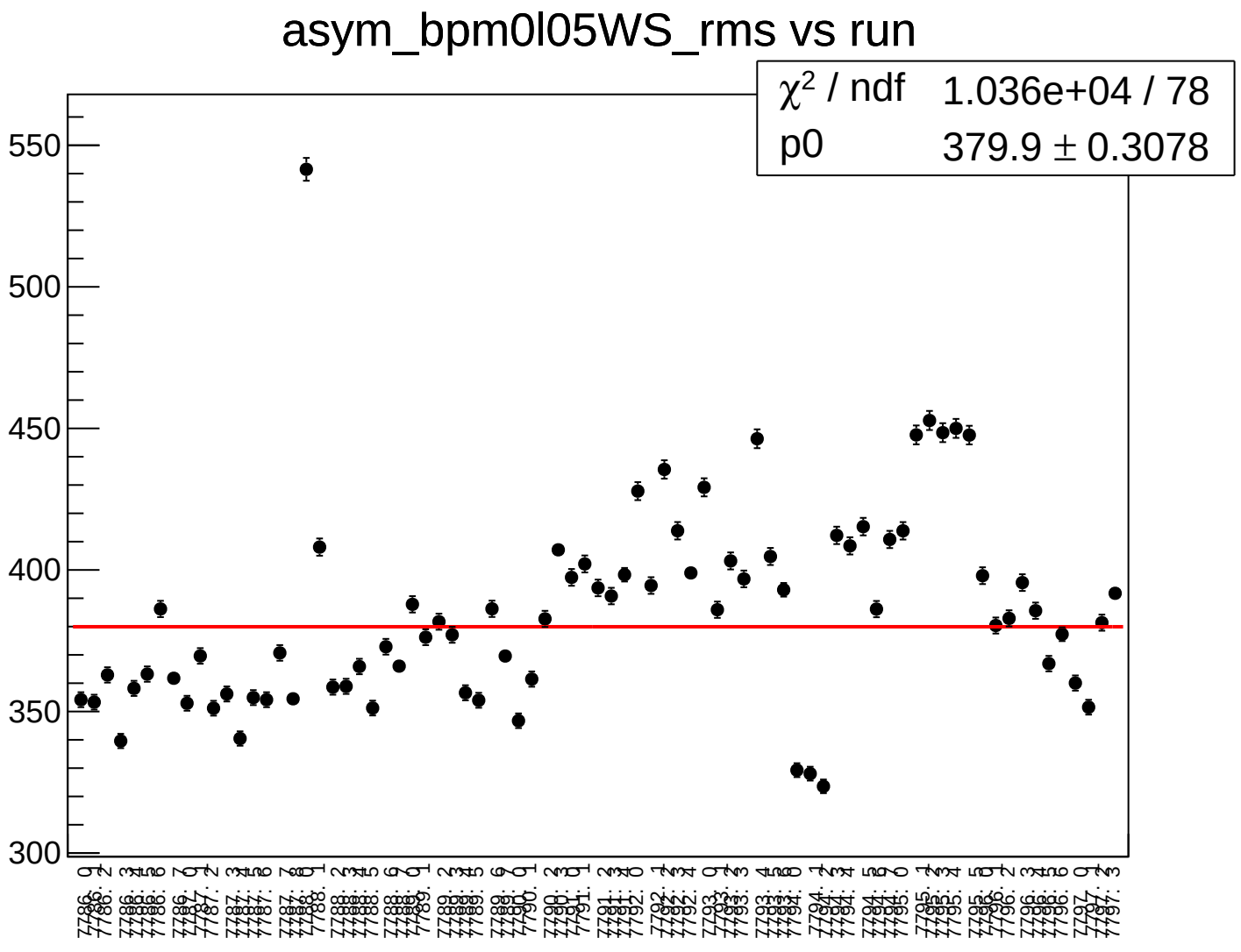

asym_bpm0l04WS_mean vs run
χ² / ndf 82.45 / 78
p0 1409 ± 421.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 221.6
Std Dev 0
2
1
0
−1
−2
−3

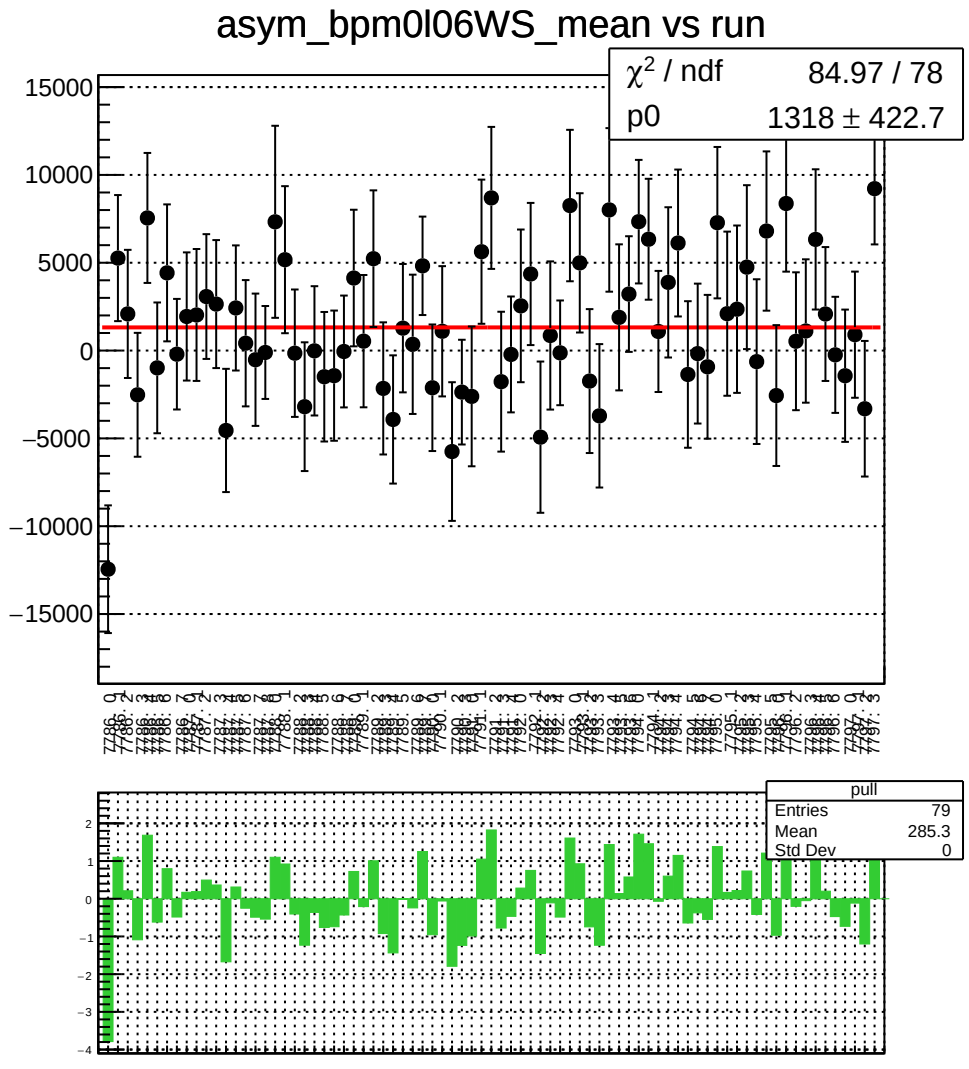

pull1D
Entries 79
Mean 0.03339
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

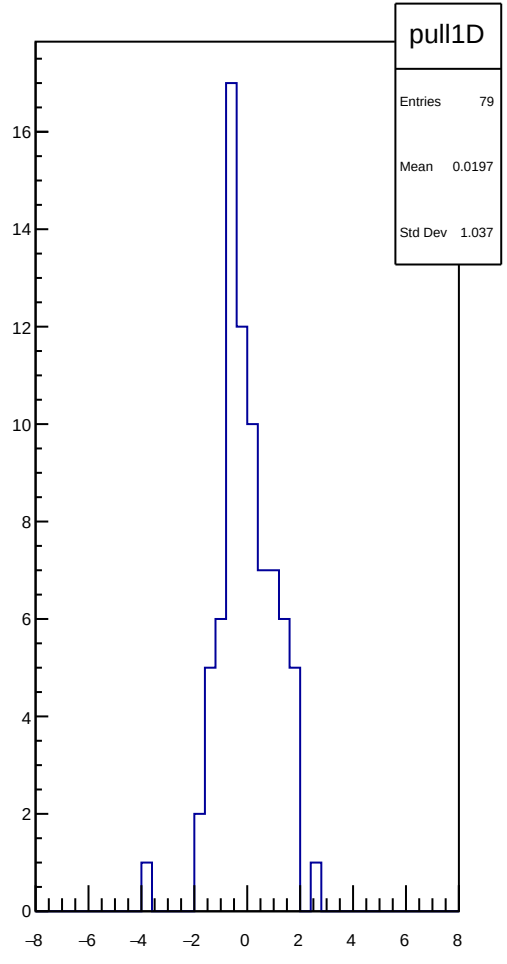

asym_bpm0l04WS_rms vs run
χ² / ndf 1.12e+04 / 78
p0 368.1 ± 0.2983
520
500
480
460
440
420
400
380
360
340
320


asym_bpm0l05WS_mean vs run
χ² / ndf 90.69 / 78
p0 1578 ± 435.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 79
Mean 361.2
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 79
Mean 0.02233
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l05WS_rms vs run
χ^2 / ndf 1.036e+04 / 78
p0 379.9 ± 0.3078
550
500
450
400
350
300


asym_bpm0l06WS_mean vs run
χ² / ndf 84.97 / 78
p0 1318 ± 422.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 285.3
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 79
Mean 0.0197
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
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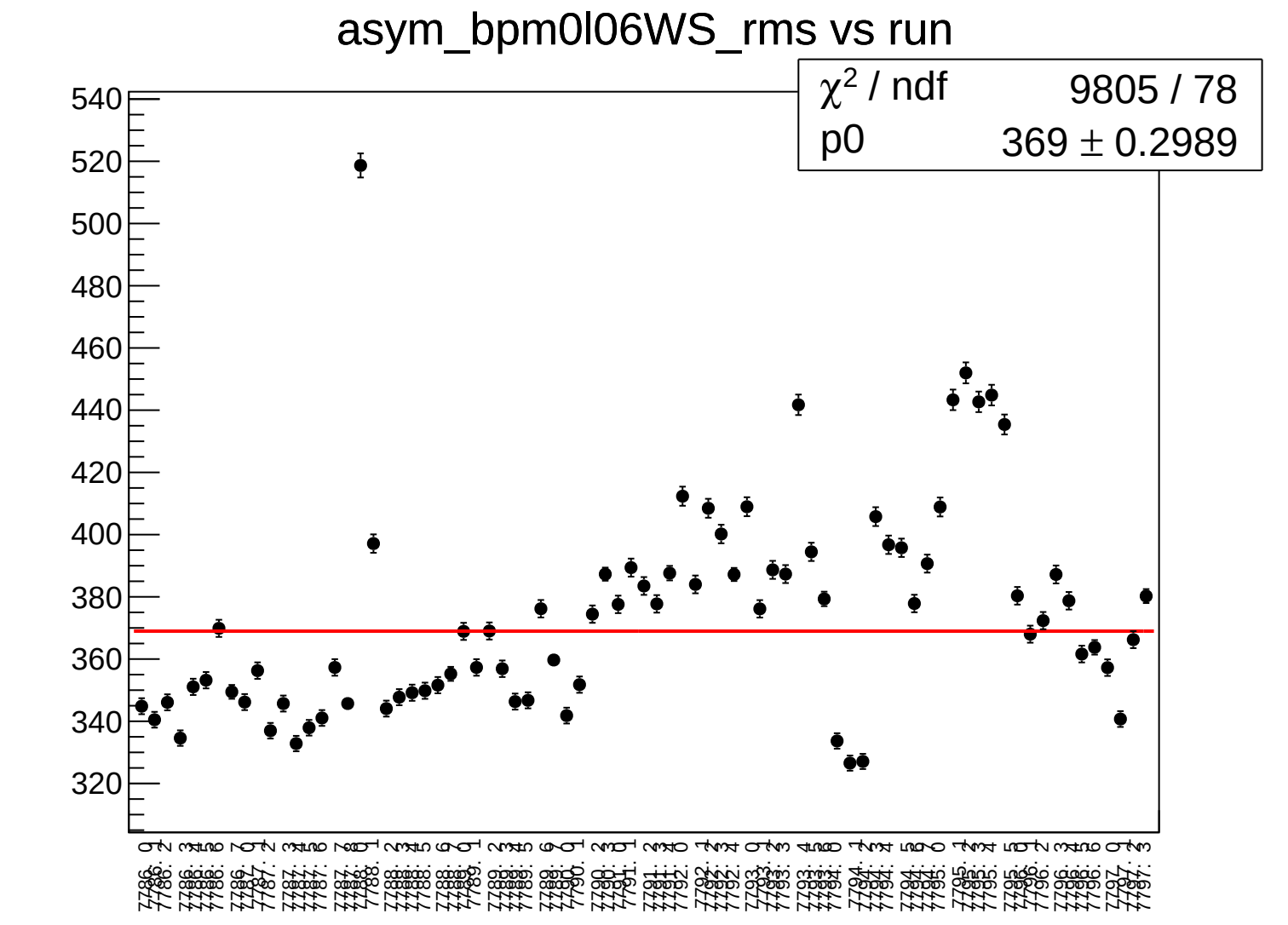
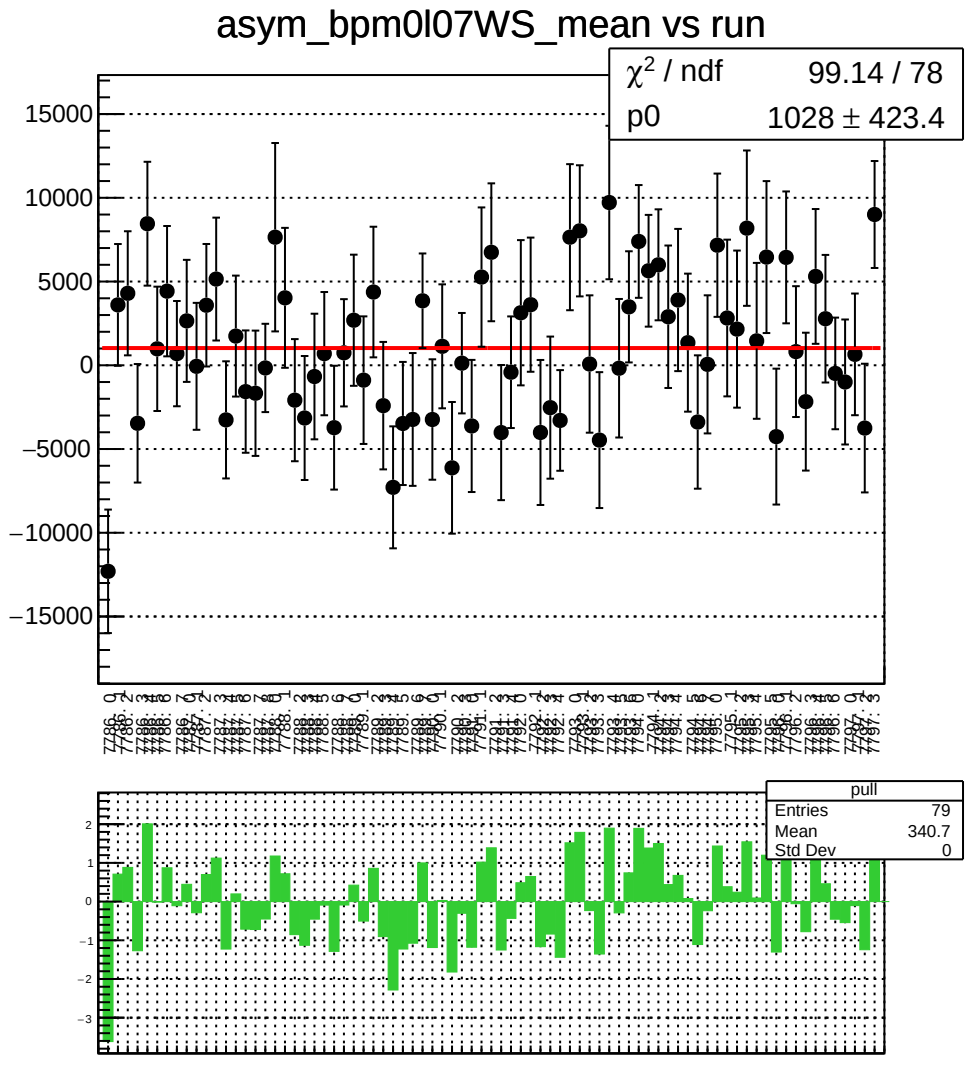
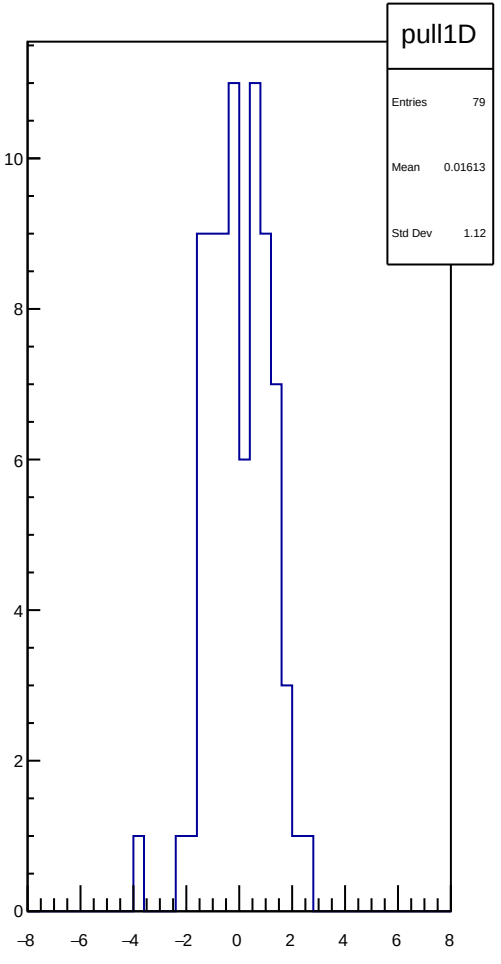
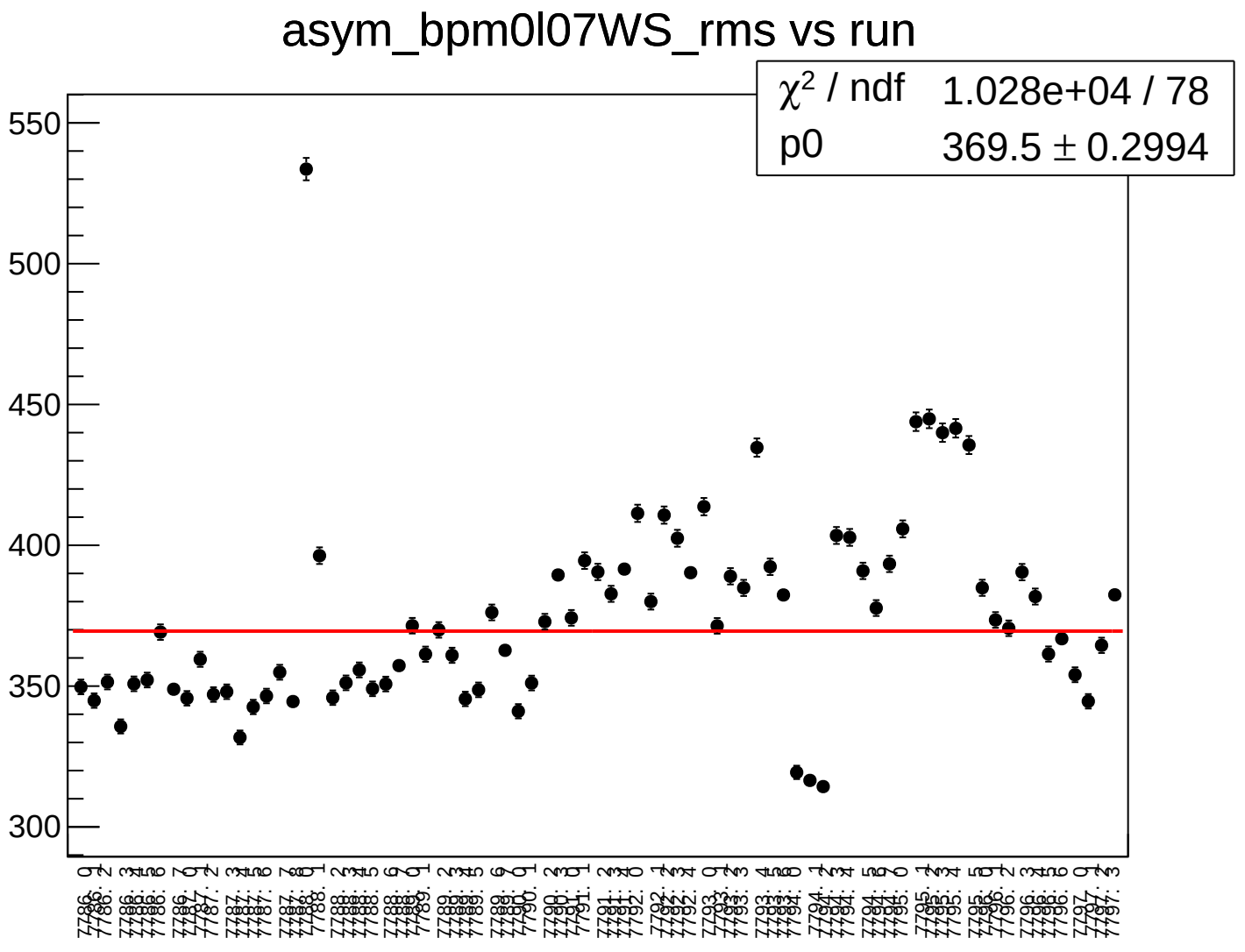
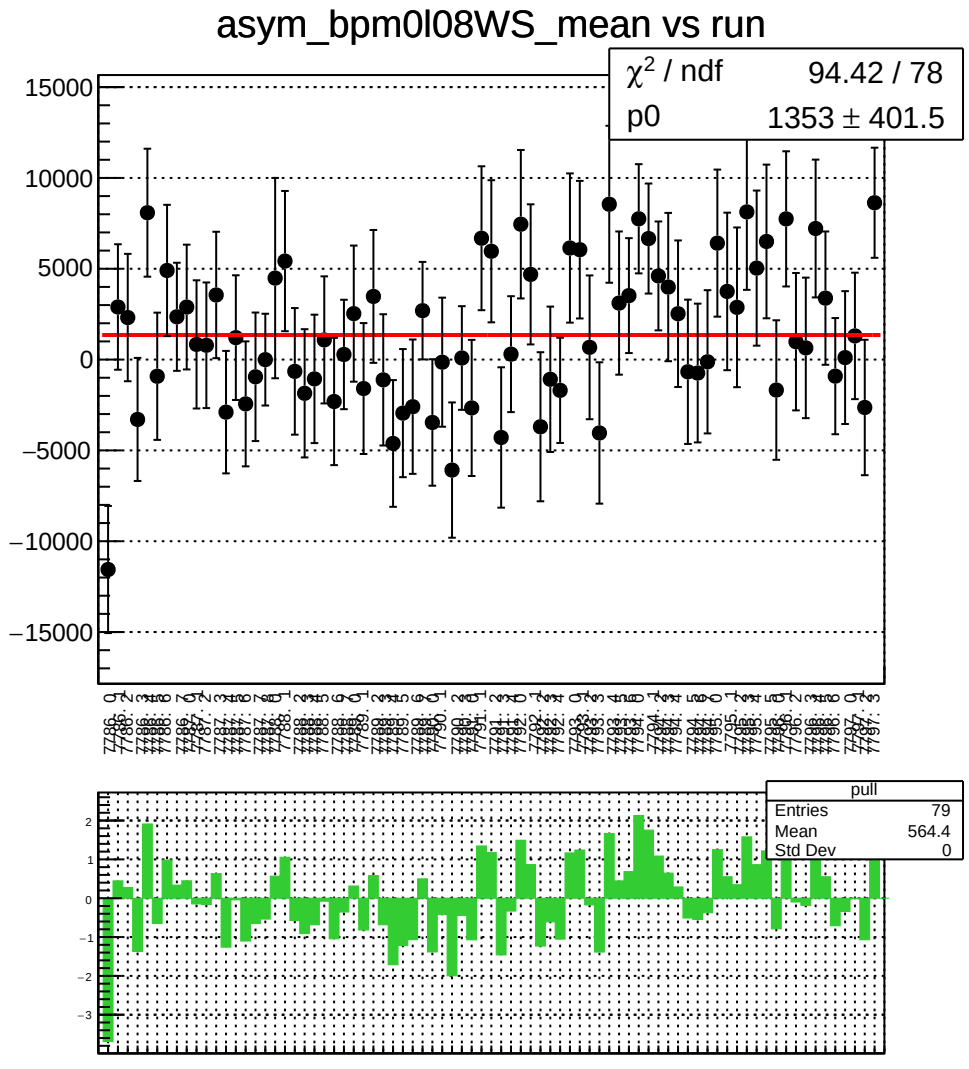
0
2
4
6
8

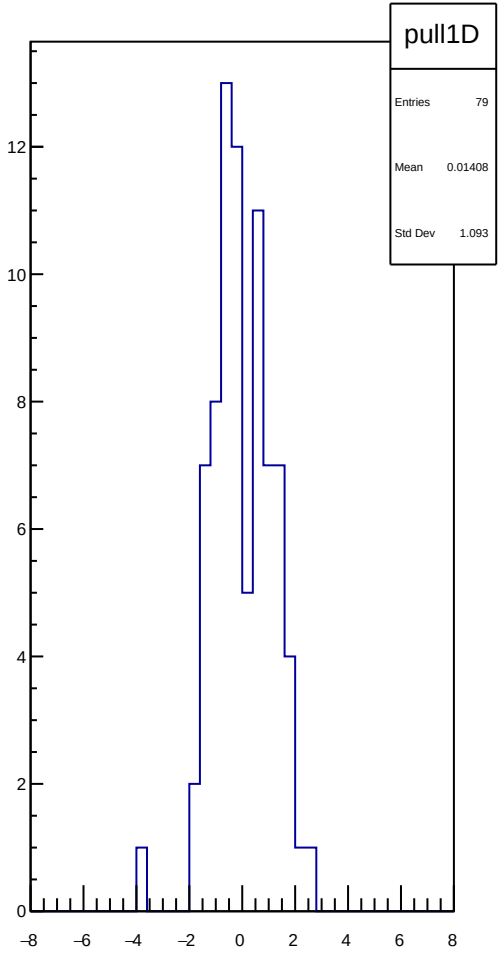

asym_bpm0l06WS_rms vs run
χ^2 / ndf 9805 / 78
p0 369 ± 0.2989
540
520
500
480
460
440
420
400
380
360
340
320

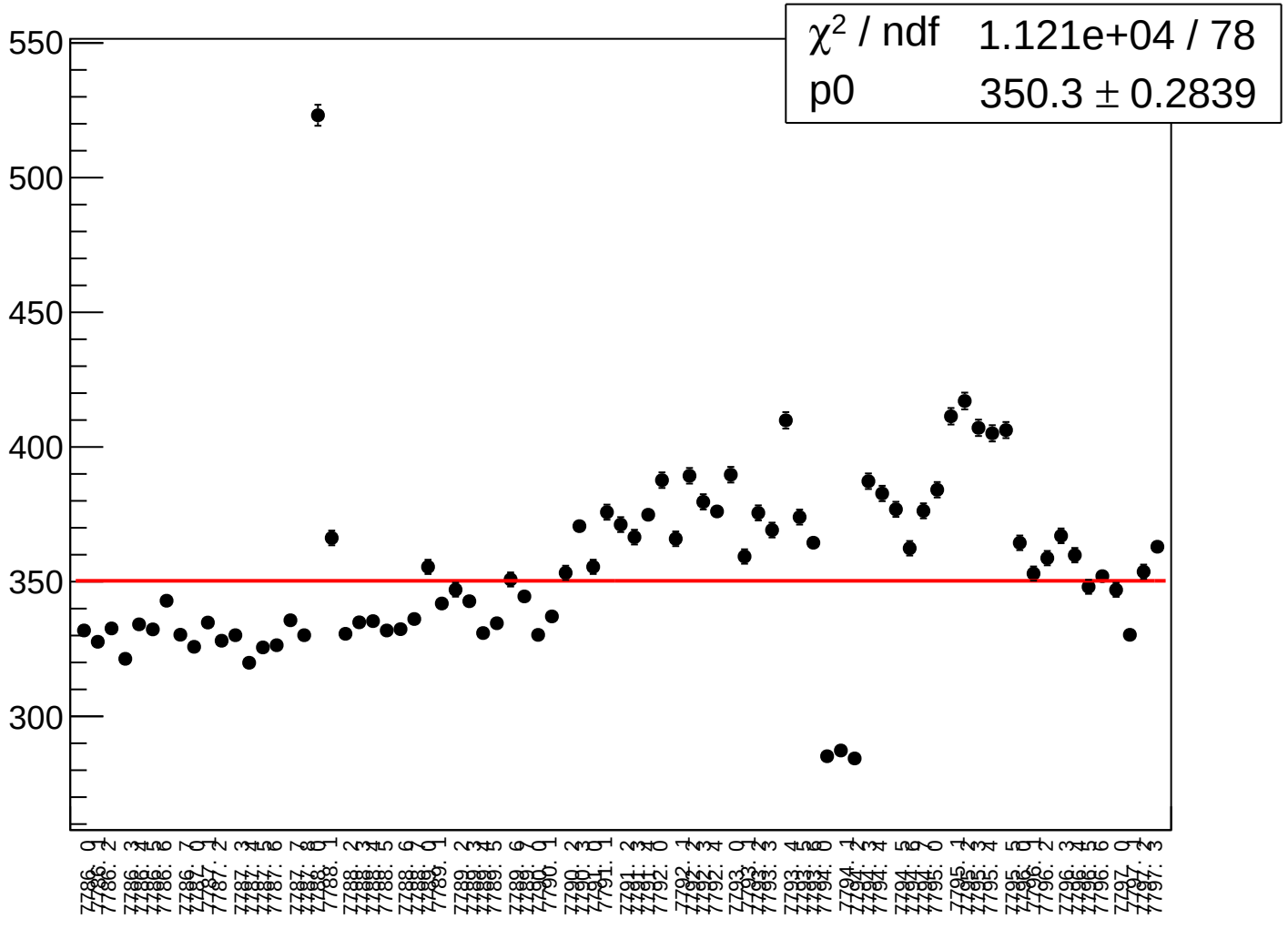

asym_bpm0l07WS_mean vs run
χ² / ndf 99.14 / 78
p0 1028 ± 423.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 340.7
Std Dev 0
2
1
0
−1
−2
−3

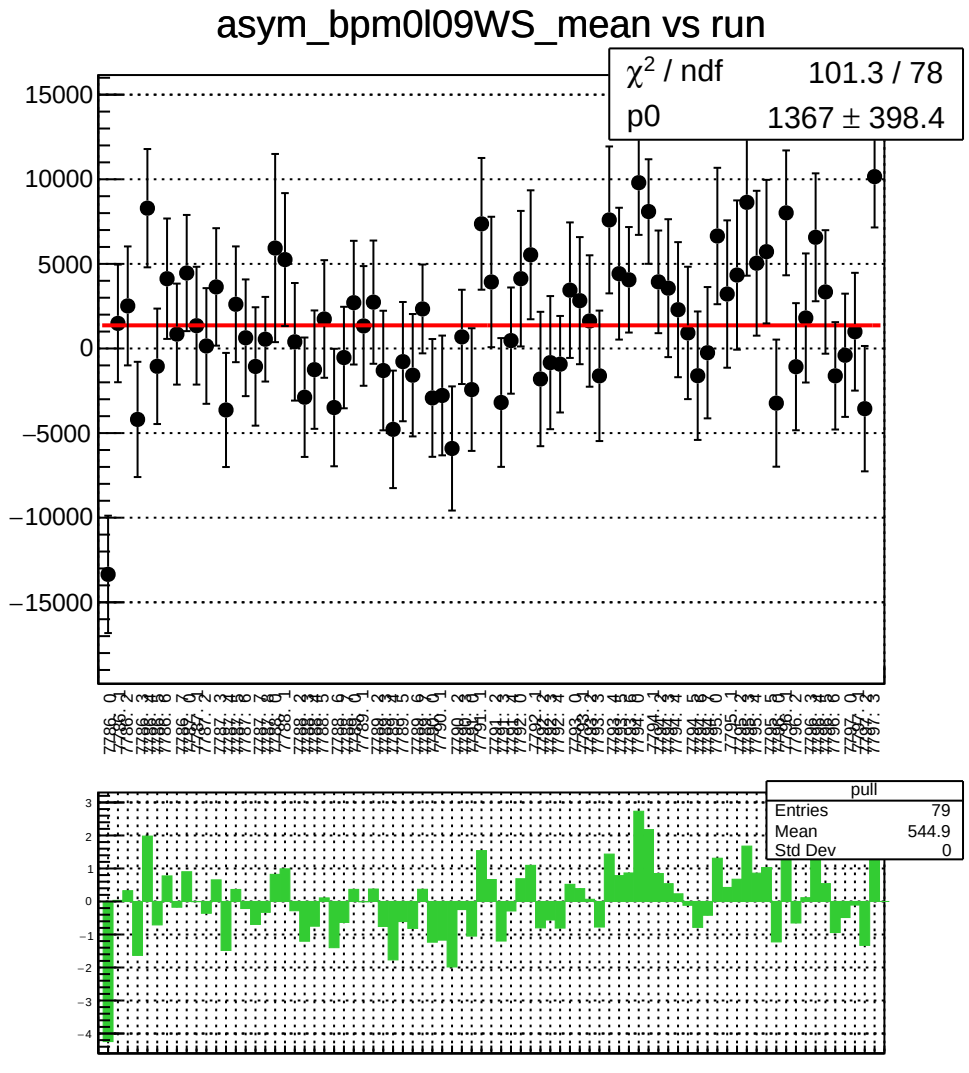

pull1D
Entries 79
Mean 0.01613
Std Dev 1.12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

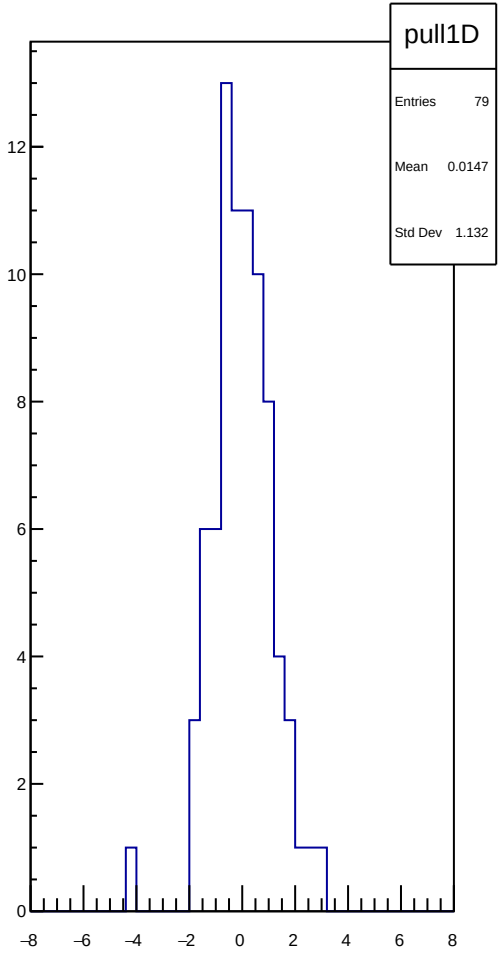

asym_bpm0l07WS_rms vs run
χ² / ndf 1.028e+04 / 78
p0 369.5 ± 0.2994
550
500
450
400
350
300

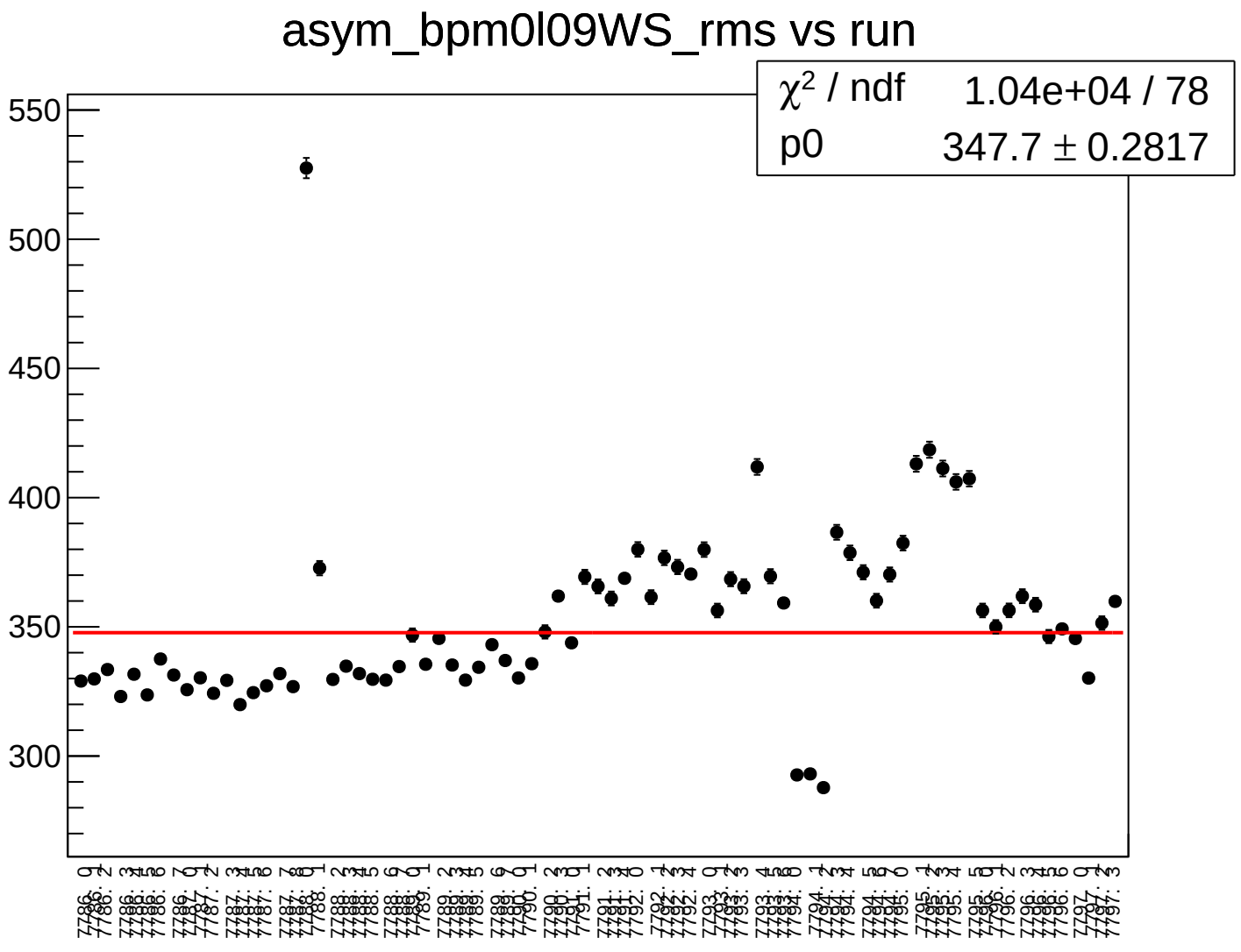

asym_bpm0l08WS_mean vs run
χ² / ndf 94.42 / 78
p0 1353 ± 401.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 564.4
Std Dev 0
2
1
0
−1
−2
−3

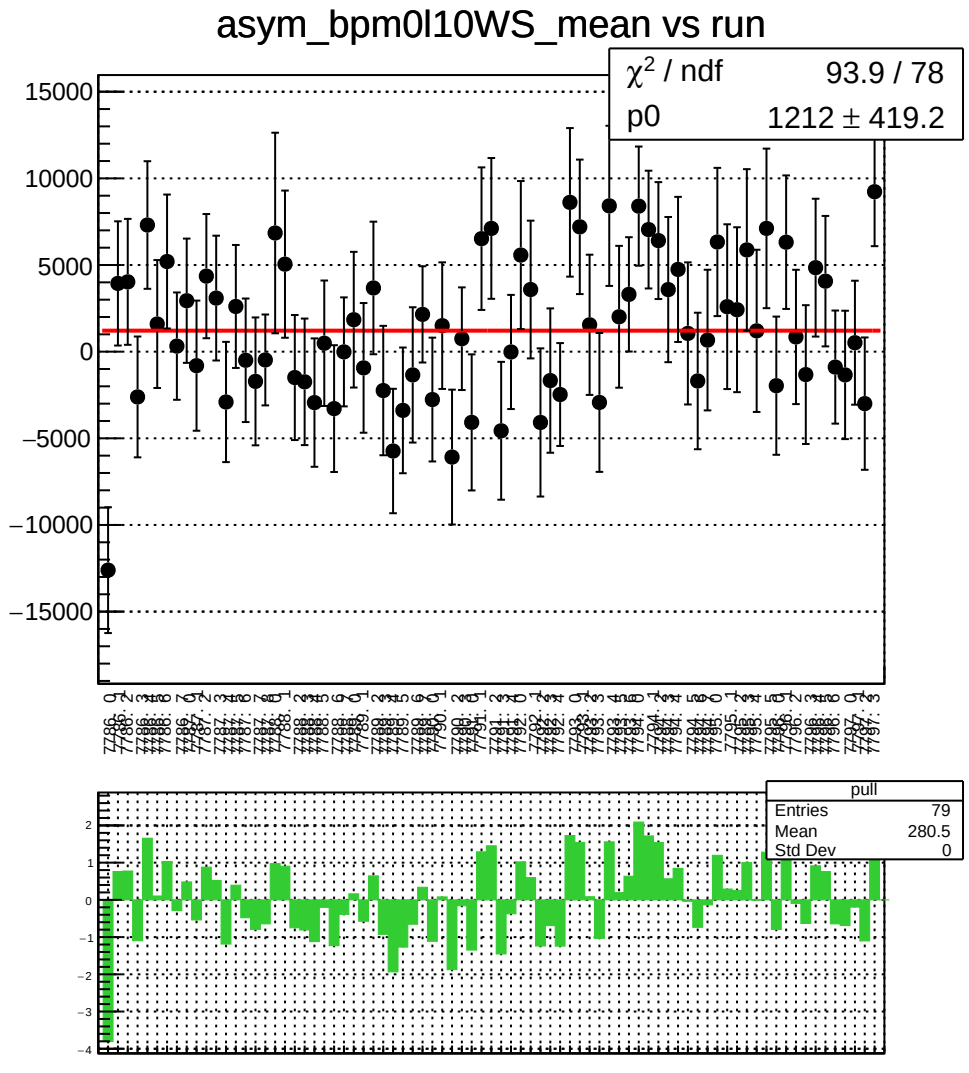

pull1D
Entries 79
Mean 0.01408
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

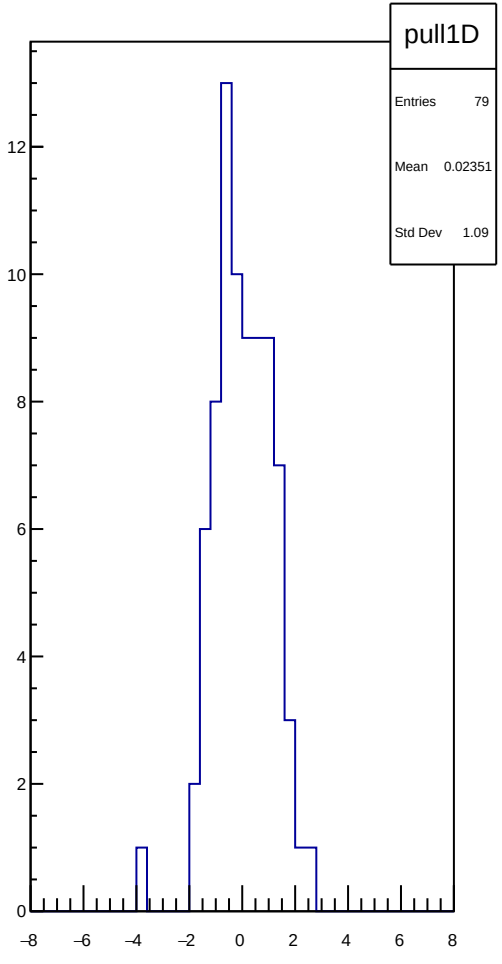

asym_bpm0l08WS_rms vs run
χ^2 / ndf 1.121e+04 / 78
p0 350.3 ± 0.2839
550
500
450
400
350
300

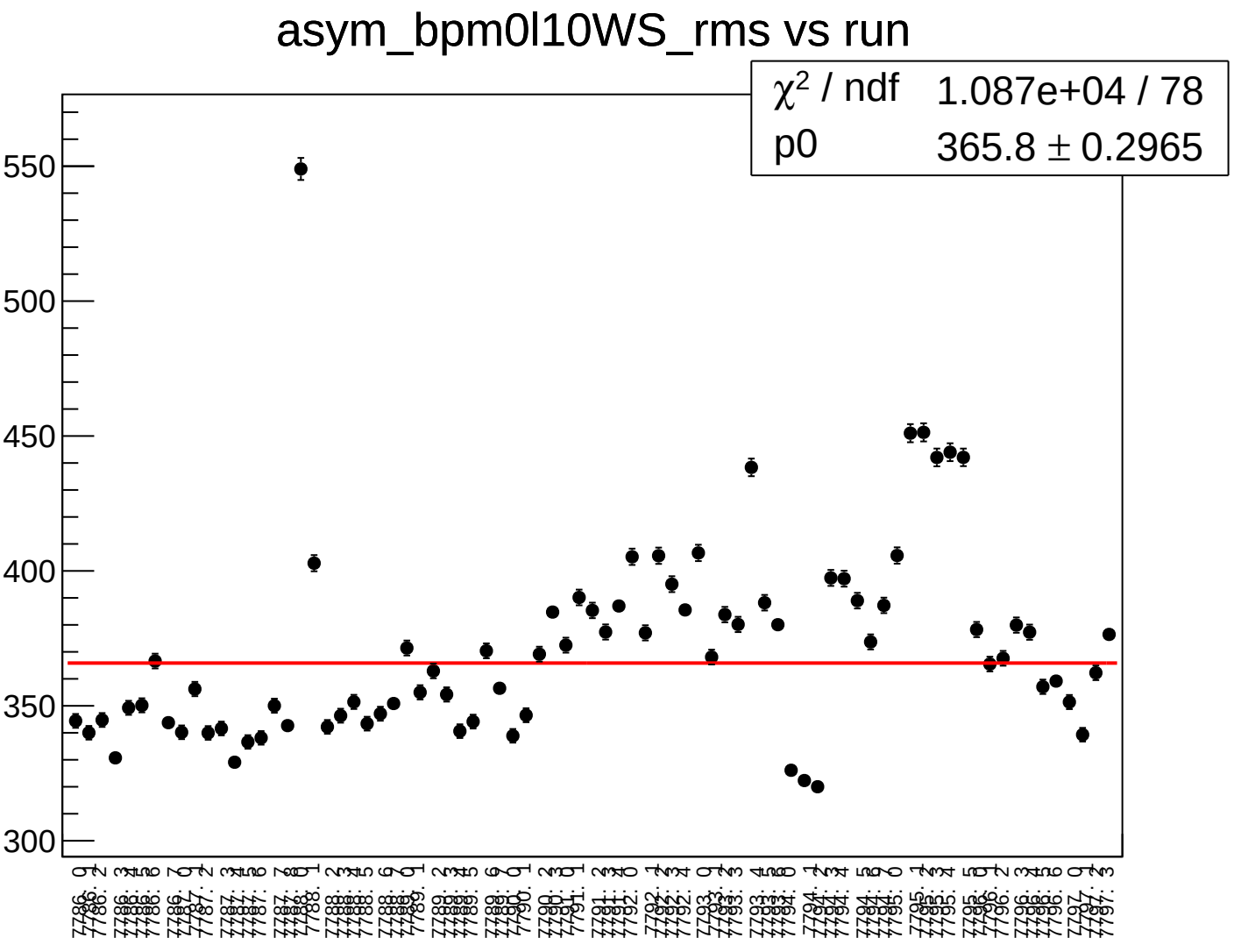

asym_bpm0l09WS_mean vs run
χ² / ndf 101.3 / 78
p0 1367 ± 398.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 544.9
Std Dev 0
3
2
1
0
−1
−2
−3
−4

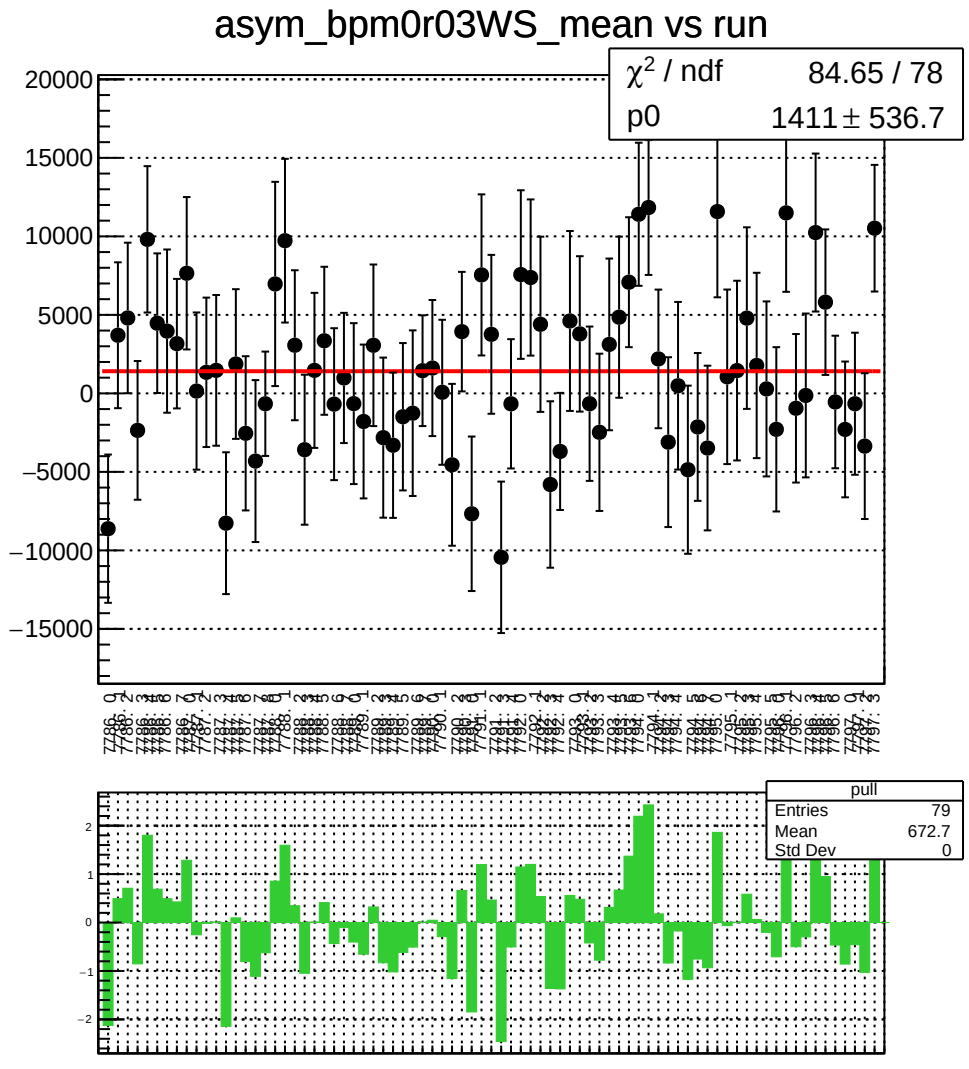

pull1D
Entries 79
Mean 0.0147
Std Dev 1.132
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

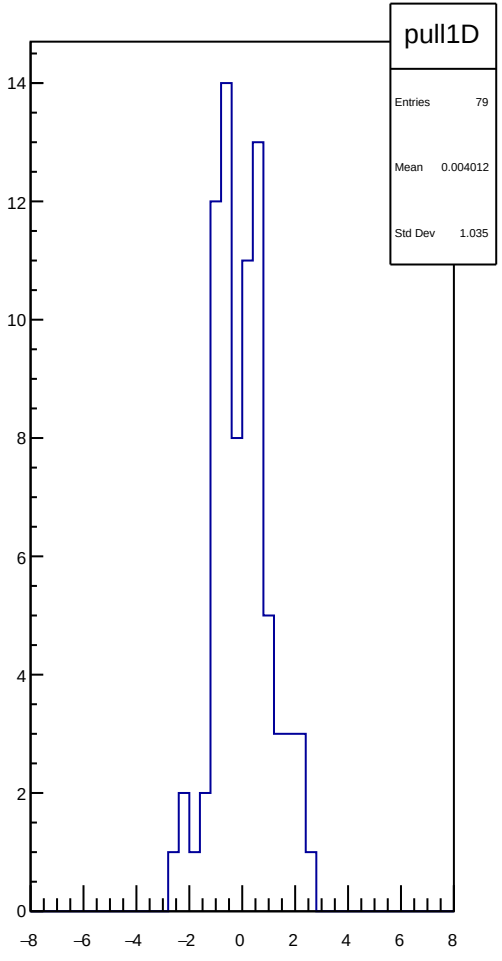

asym_bpm0l09WS_rms vs run
χ² / ndf 1.04e+04 / 78
p0 347.7 ± 0.2817
550
500
450
400
350
300

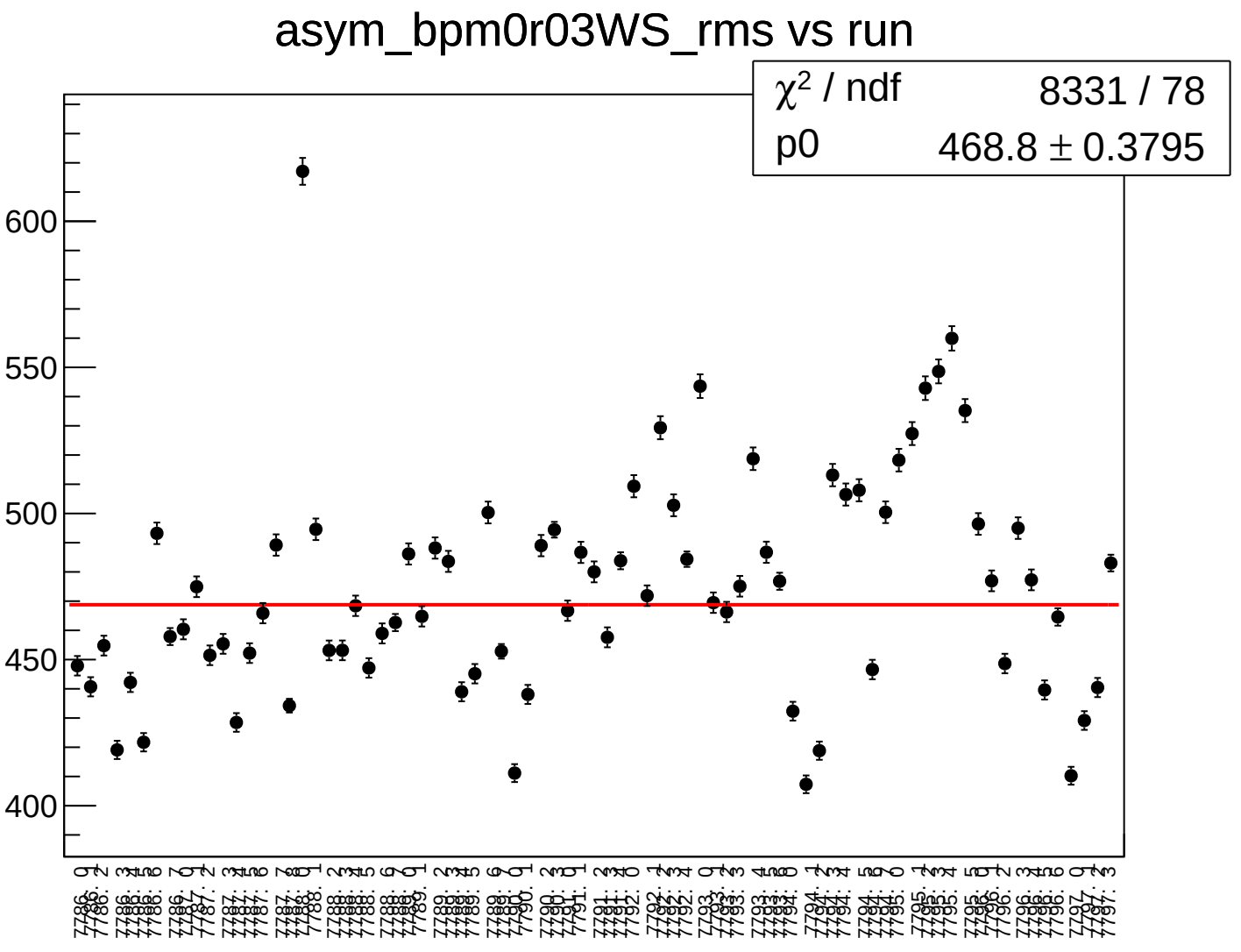

asym_bpm0l10WS_mean vs run
χ² / ndf 93.9 / 78
p0 1212 ± 419.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 280.5
Std Dev 0
2
1
0
−1
−2
−3
−4

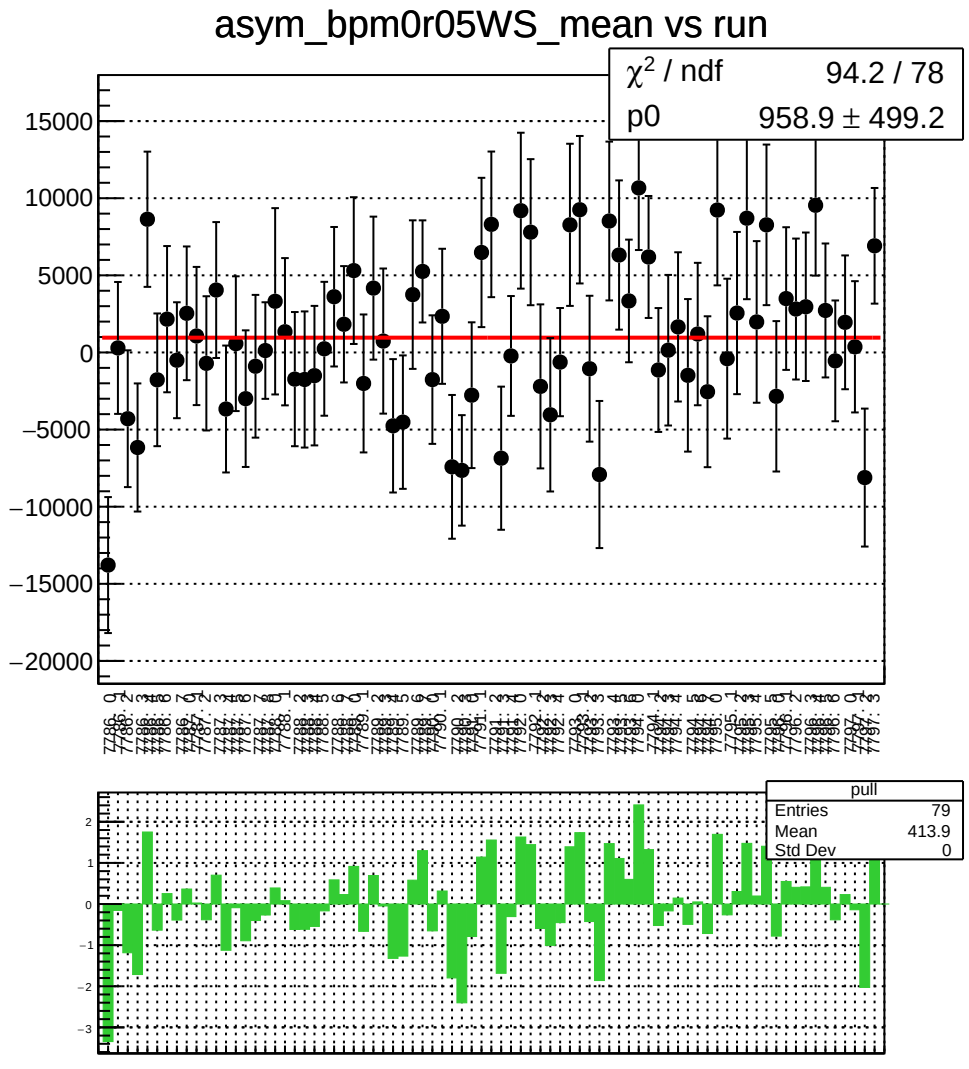

pull1D
Entries 79
Mean 0.02351
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

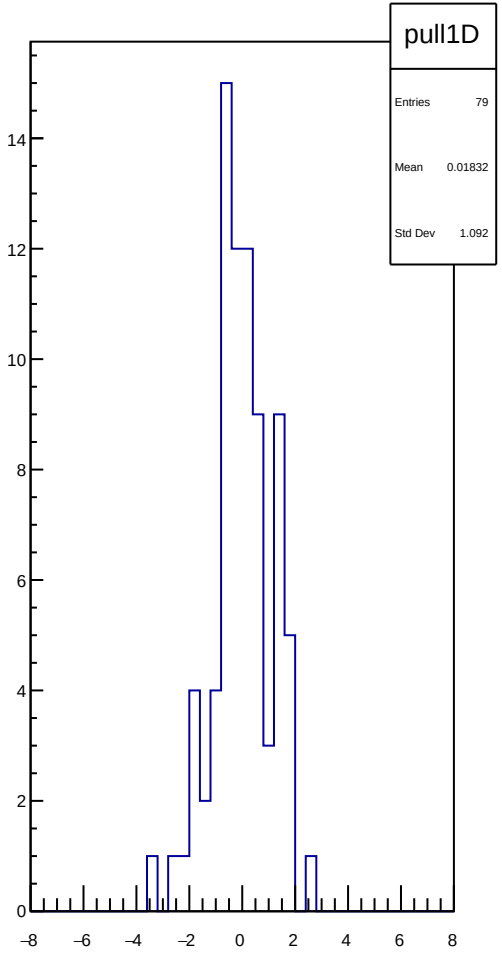

asym_bpm0l10WS_rms vs run
χ^2 / ndf 1.087e+04 / 78
p0 365.8 ± 0.2965
550
500
450
400
350
300

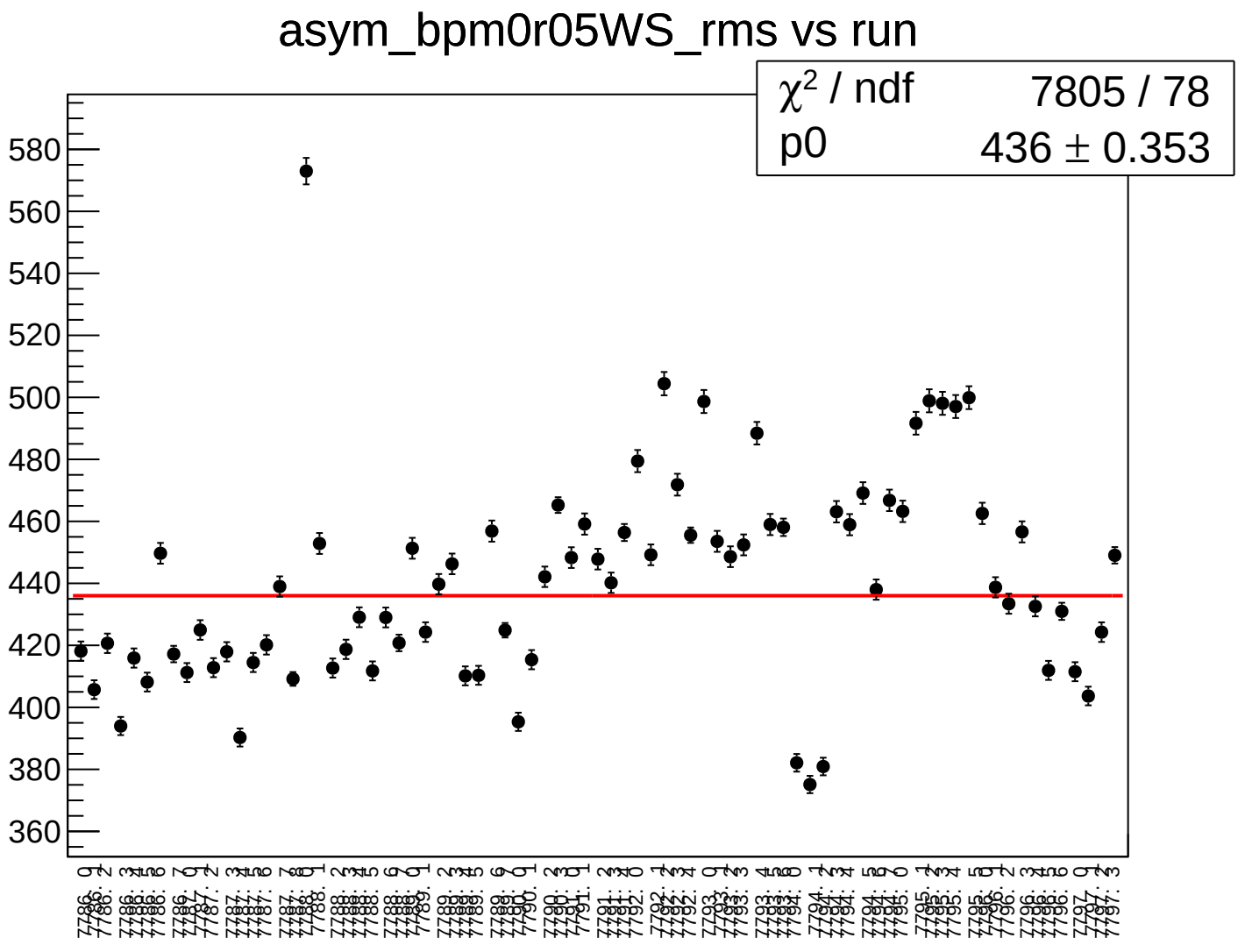

asym_bpm0r03WS_mean vs run
χ² / ndf 84.65 / 78
p0 1411 ± 536.7
pull
Entries 79
Mean 672.7
Std Dev 0

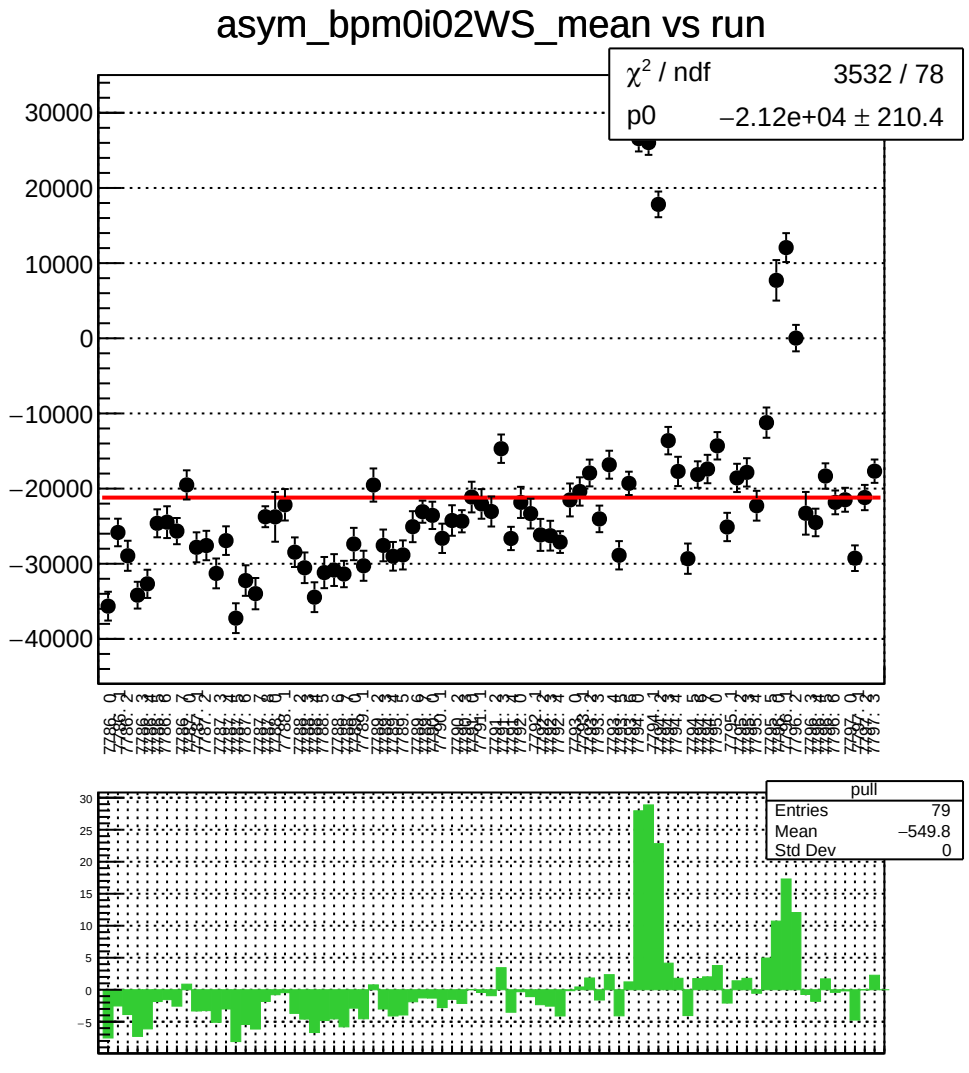

pull1D
Entries 79
Mean 0.004012
Std Dev 1.035

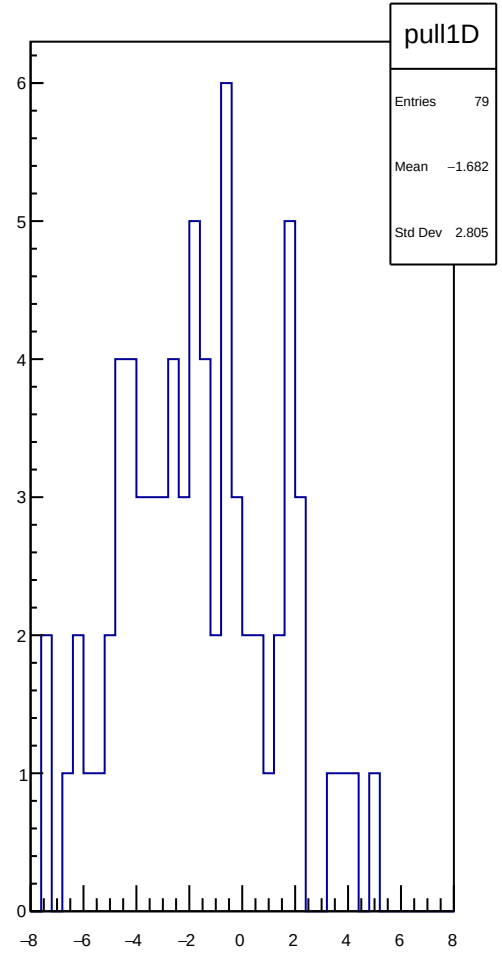

asym_bpm0r03WS_rms vs run
χ^2 / ndf 8331 / 78
p0 468.8 ± 0.3795
600
550
500
450
400

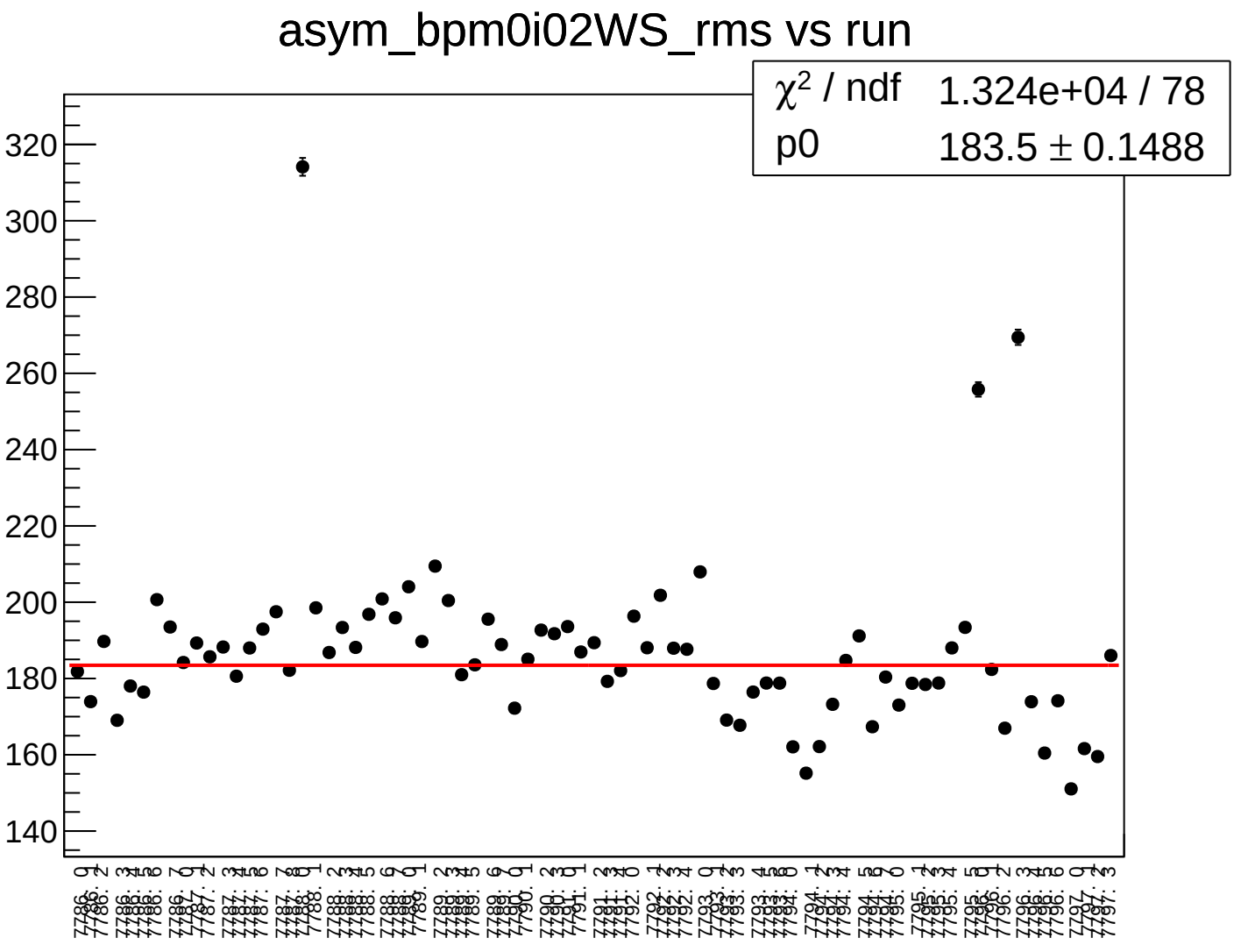

asym_bpm0r05WS_mean vs run
χ² / ndf 94.2 / 78
p0 958.9 ± 499.2
pull
Entries 79
Mean 413.9
Std Dev 0

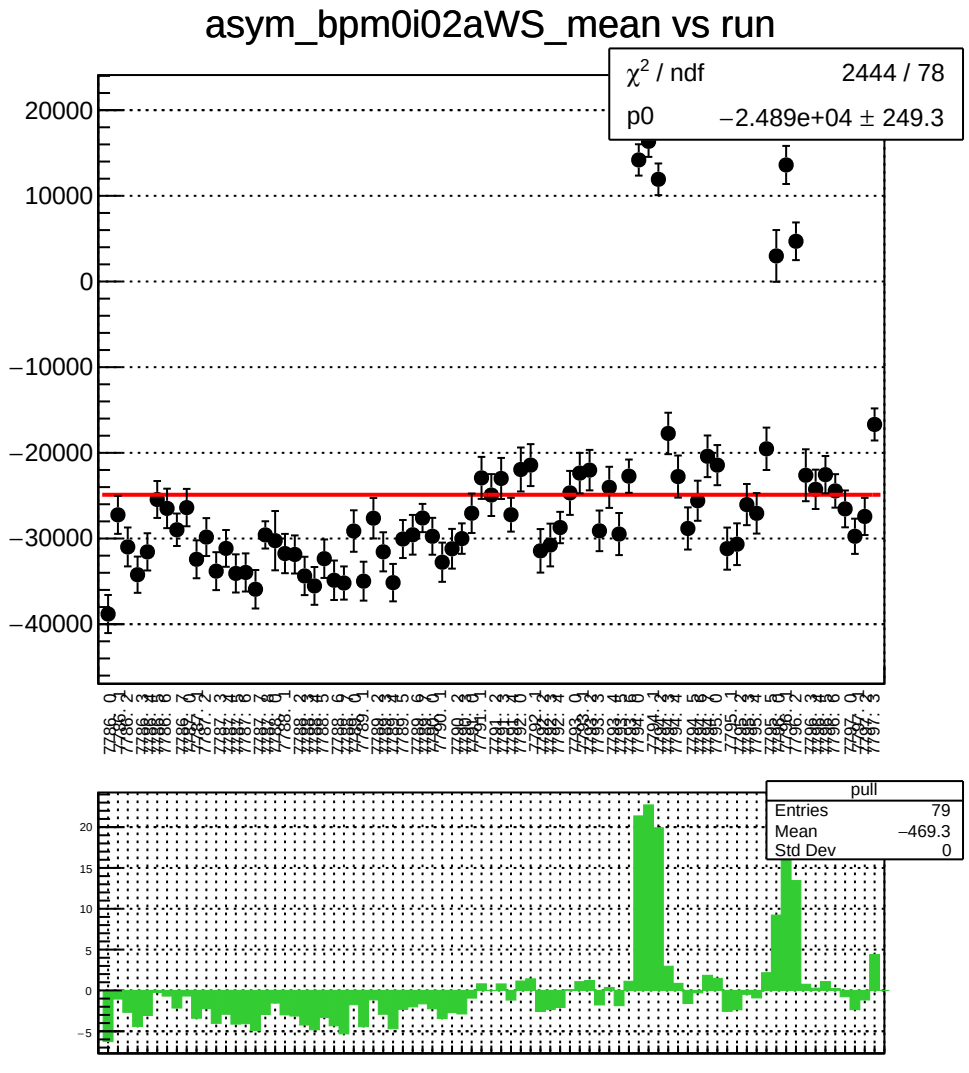

pull1D
Entries 79
Mean 0.01832
Std Dev 1.092

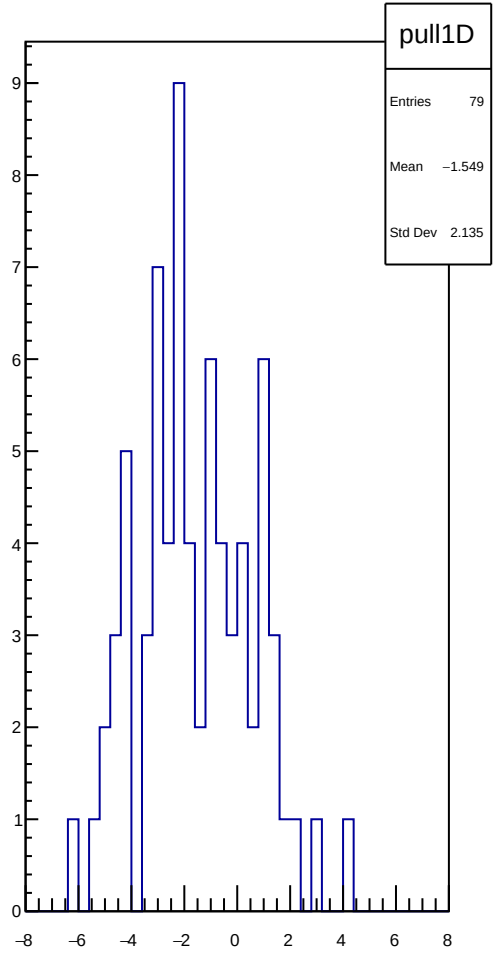

asym_bpm0r05WS_rms vs run
χ² / ndf 7805 / 78
p0 436 ± 0.353
580
560
540
520
500
480
460
440
420
400
380
360

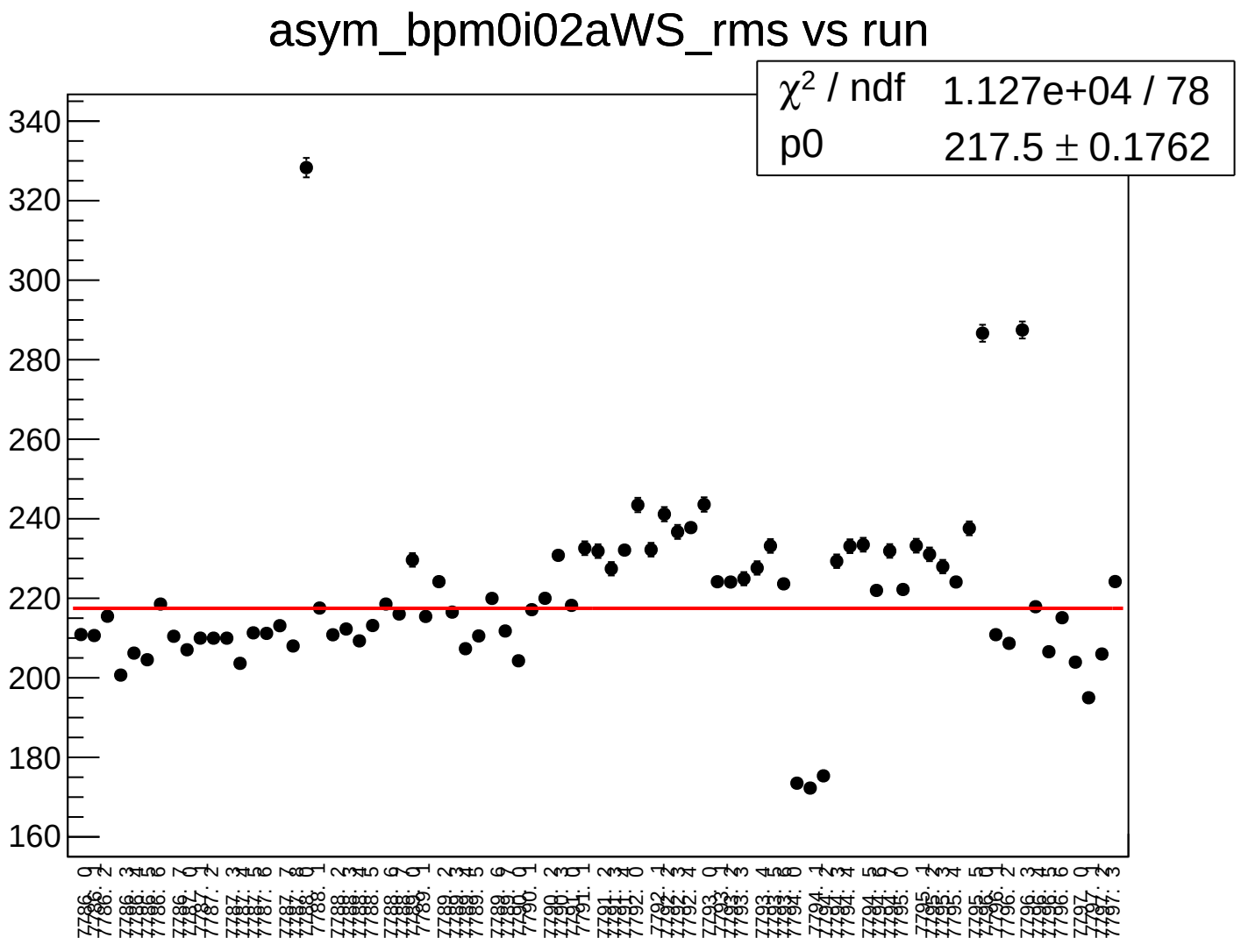

asym_bpm0i02WS_mean vs run
χ² / ndf 3532 / 78
p0 −2.12e+04 ± 210.4
pull
Entries 79
Mean −549.8
Std Dev 0

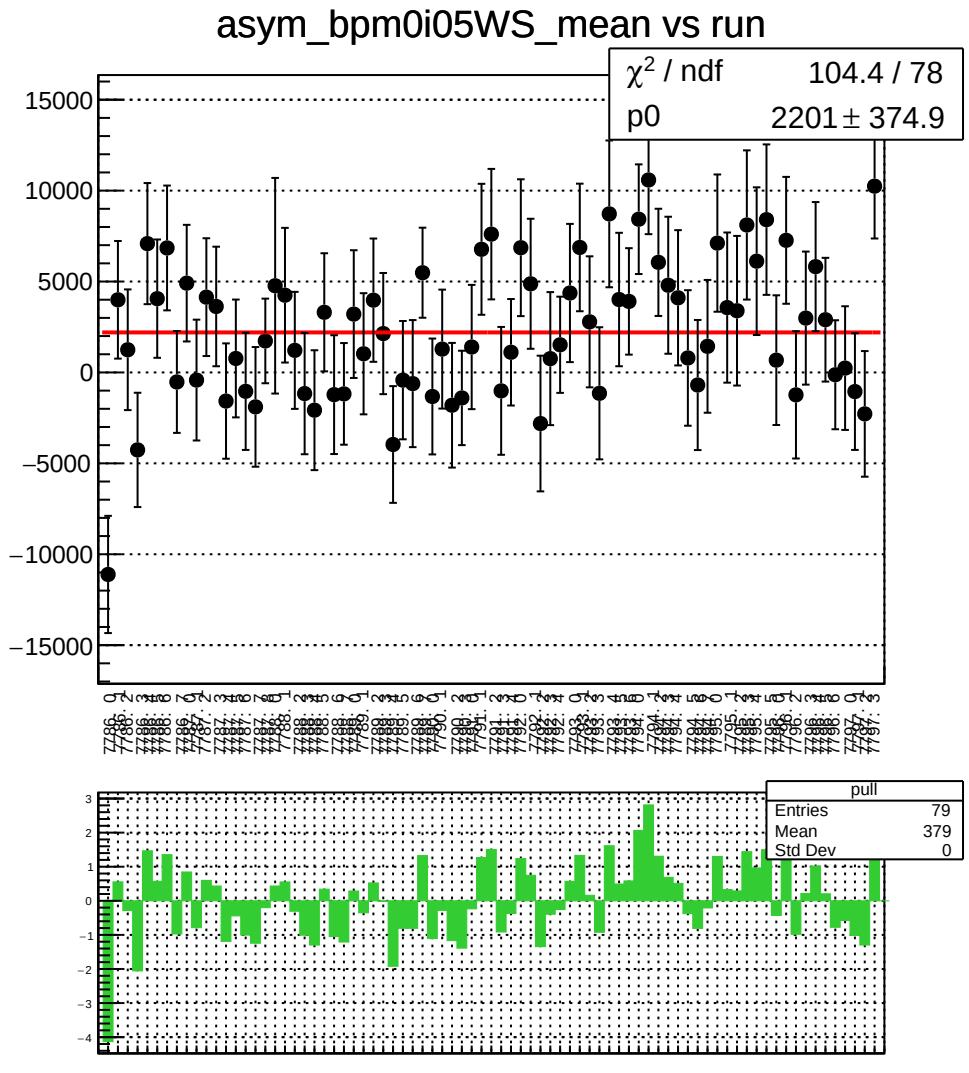

pull1D
Entries 79
Mean −1.682
Std Dev 2.805

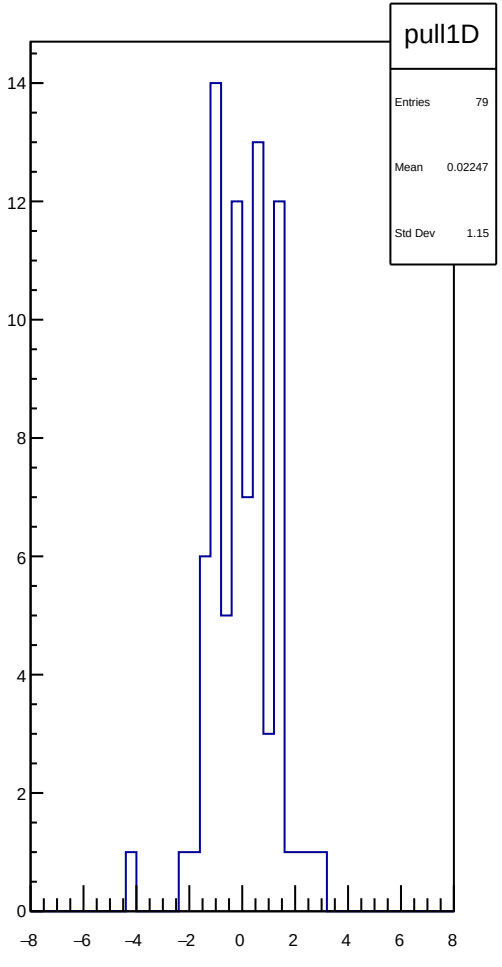

asym_bpm0i02WS_rms vs run
χ² / ndf 1.324e+04 / 78
p0 183.5 ± 0.1488
320
300
280
260
240
220
200
180
160
140

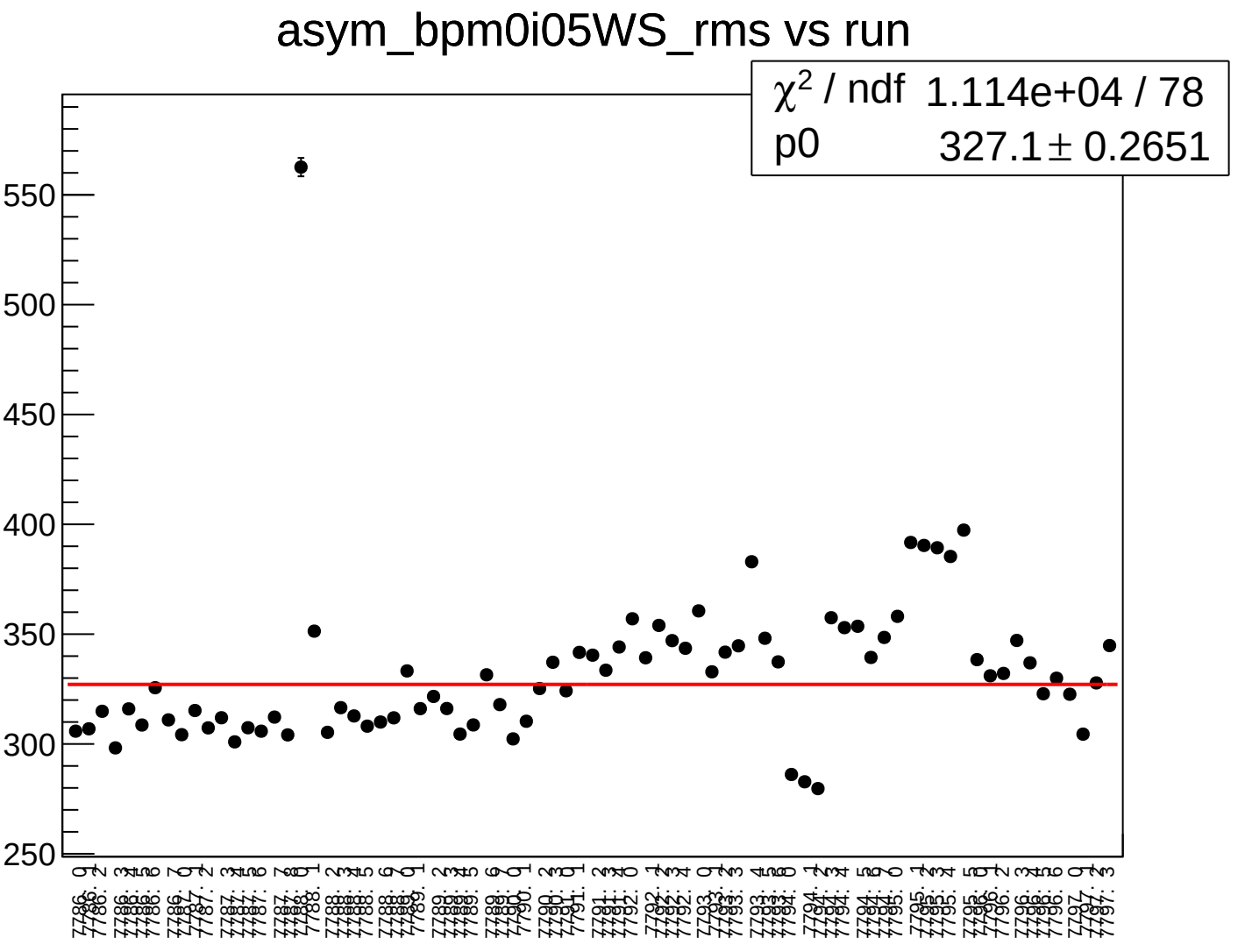

asym_bpm0i02aWS_mean vs run
χ² / ndf 2444 / 78
p0 −2.489e+04 ± 249.3
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 79
Mean −469.3
Std Dev 0
20
15
10
5
0
−5

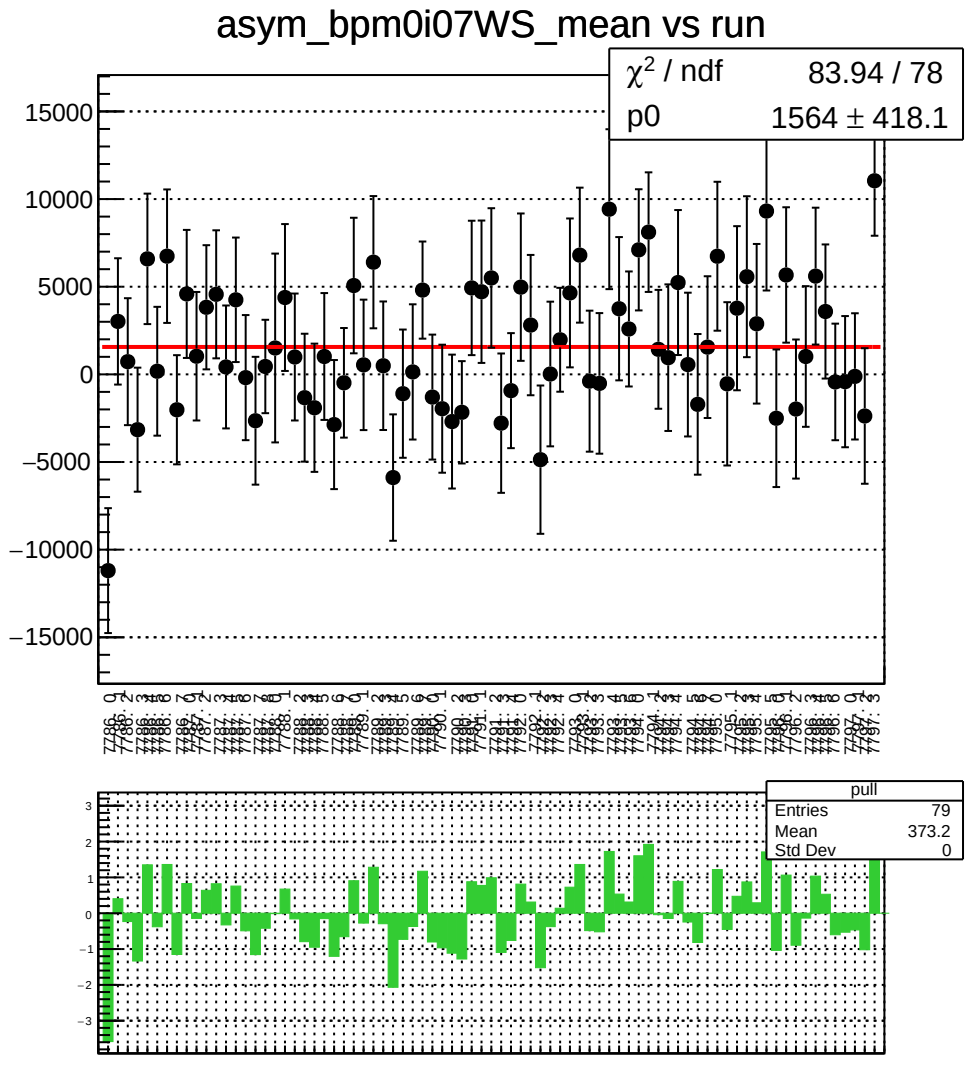

pull1D
Entries 79
Mean −1.549
Std Dev 2.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

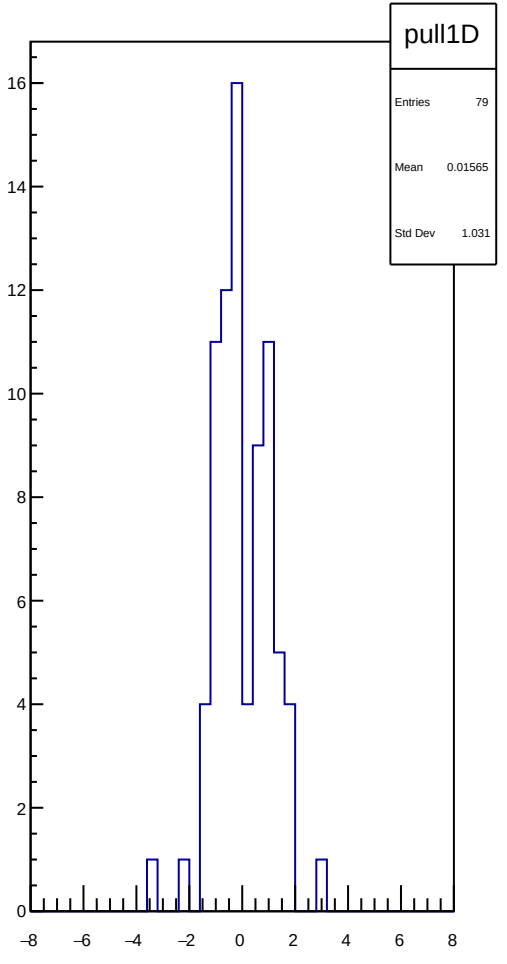

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.127e+04 / 78
p0 217.5 ± 0.1762
340
320
300
280
260
240
220
200
180
160

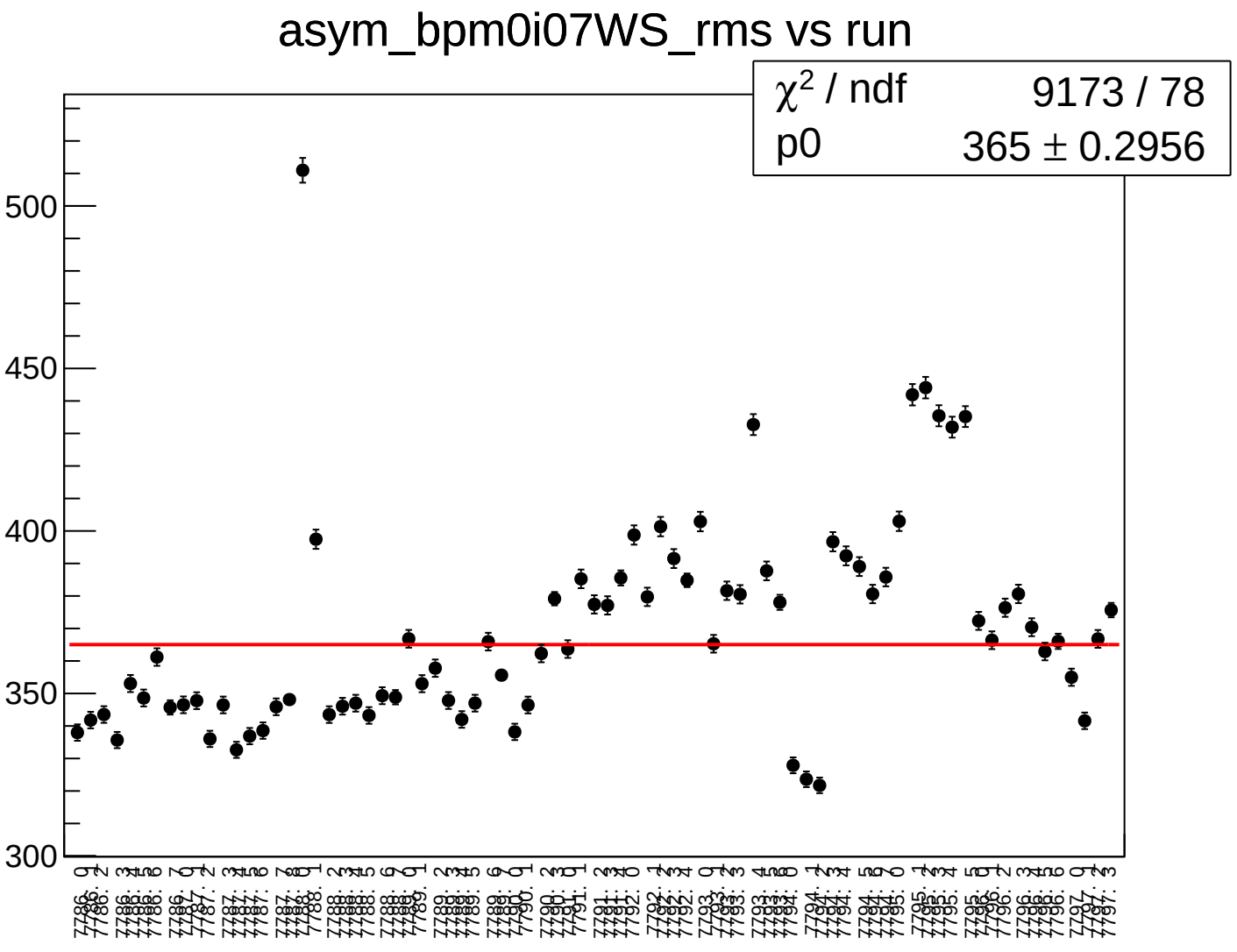

asym_bpm0i05WS_mean vs run
χ² / ndf 104.4 / 78
p0 2201 ± 374.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 379
Std Dev 0
3
2
1
0
−1
−2
−3
−4

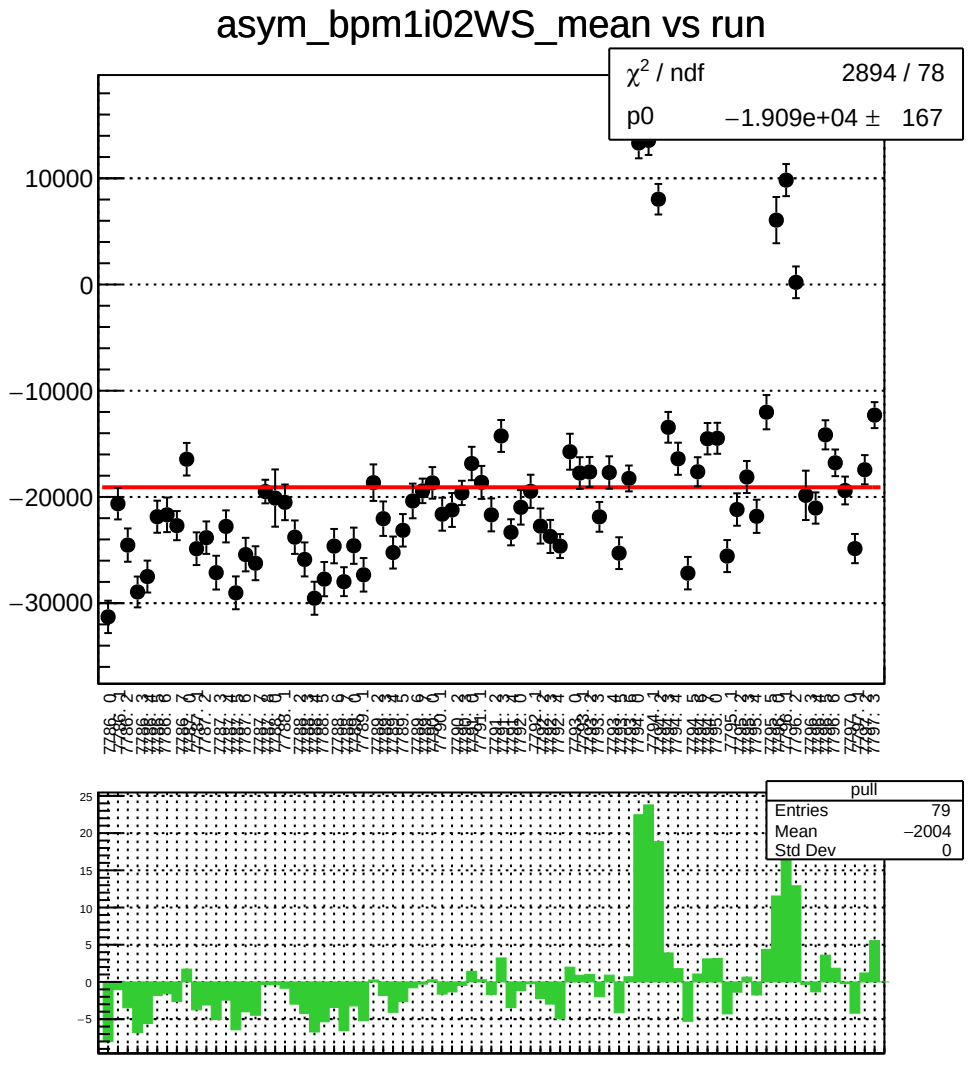

pull1D
Entries 79
Mean 0.02247
Std Dev 1.15
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

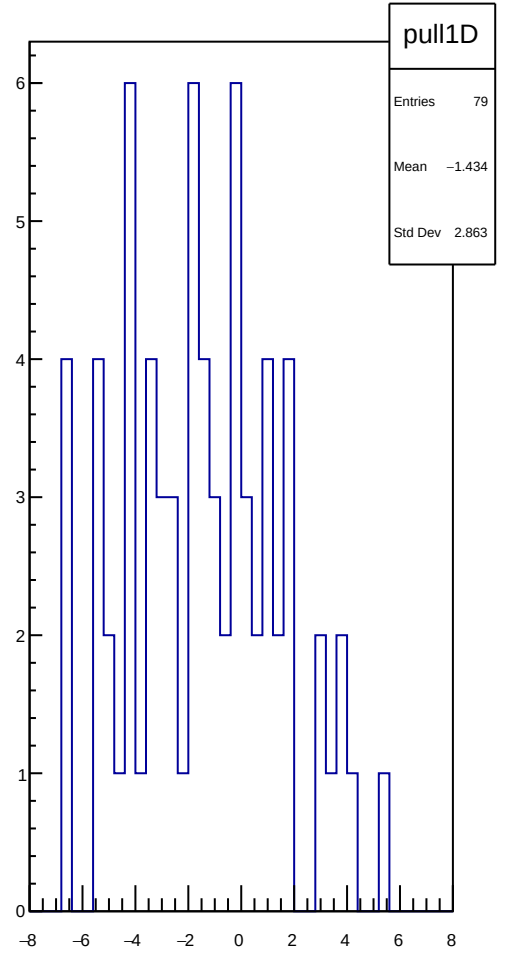

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1.114e+04 / 78
p0 327.1 ± 0.2651
550
500
450
400
350
300
250

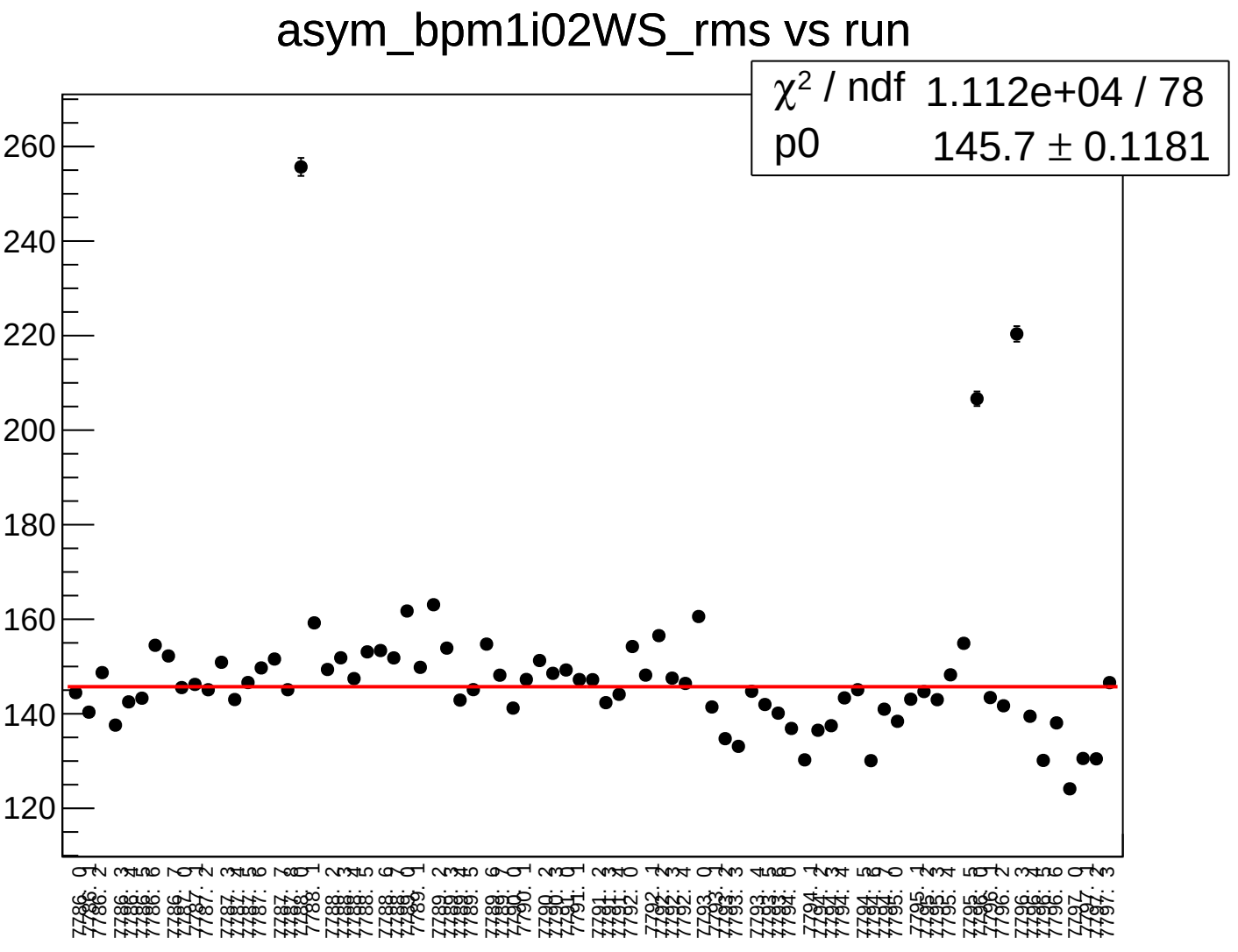

asym_bpm0i07WS_mean vs run
χ² / ndf 83.94 / 78
p0 1564 ± 418.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 373.2
Std Dev 0
3
2
1
0
−1
−2
−3

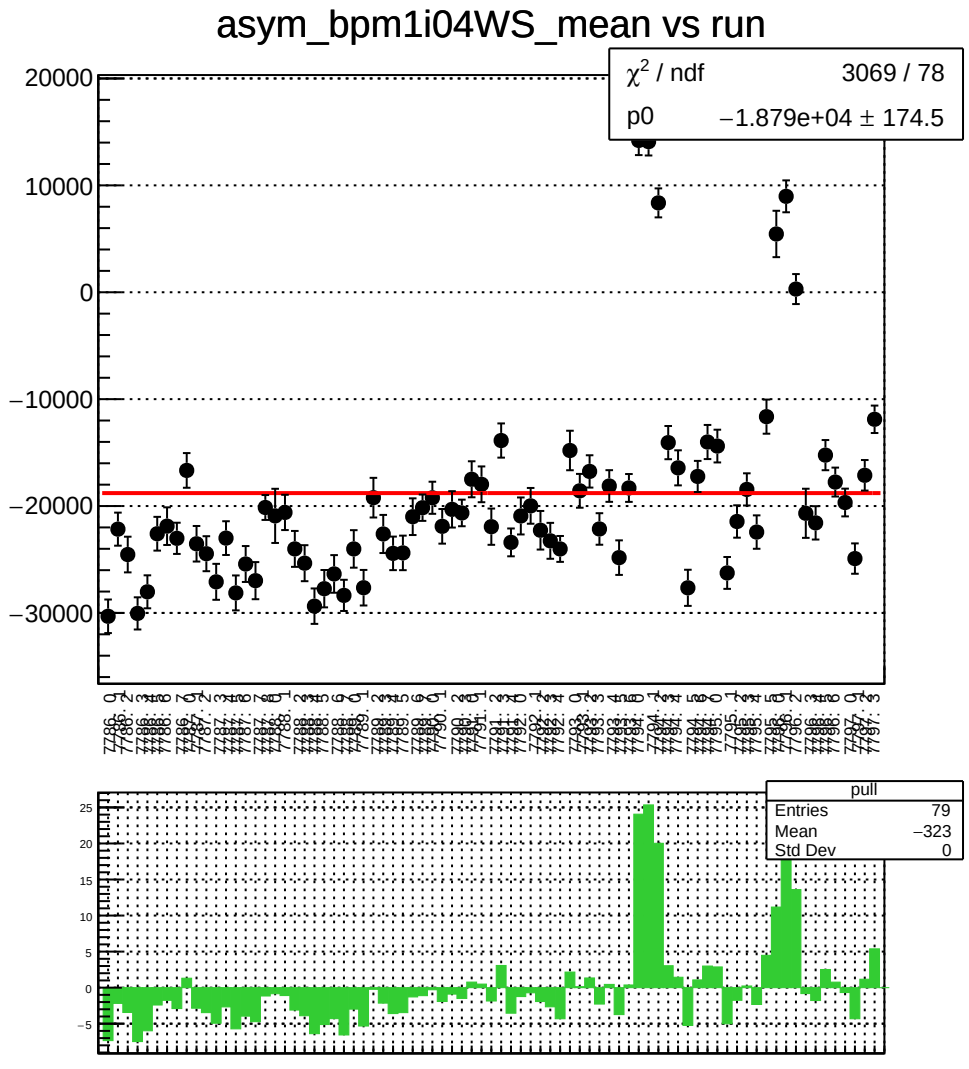

pull1D
Entries 79
Mean 0.01565
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

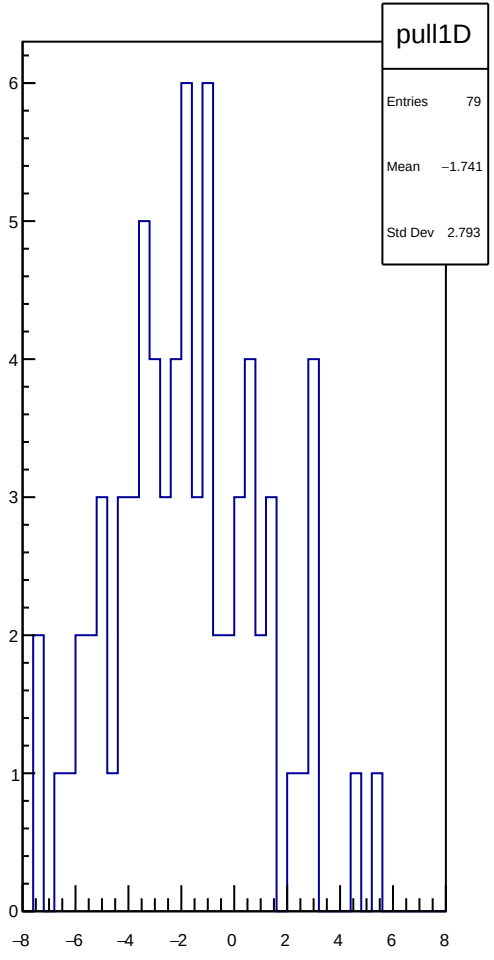

asym_bpm0i07WS_rms vs run
χ^2 / ndf 9173 / 78
p0 365 ± 0.2956
500
450
400
350
300

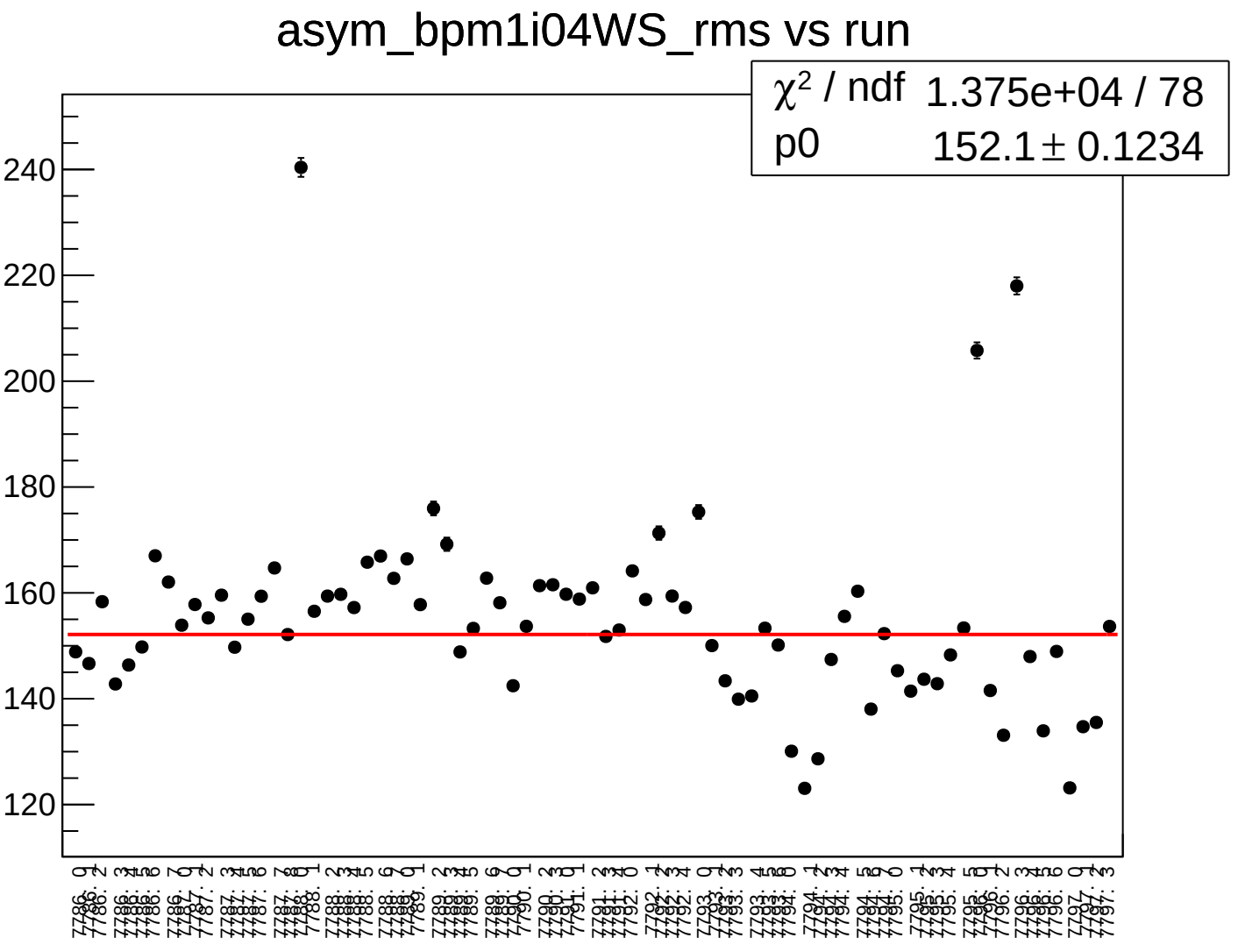

asym_bpm1i02WS_mean vs run
χ² / ndf 2894 / 78
p0 −1.909e+04 ± 167
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −2004
Std Dev 0
25
20
15
10
5
0
−5

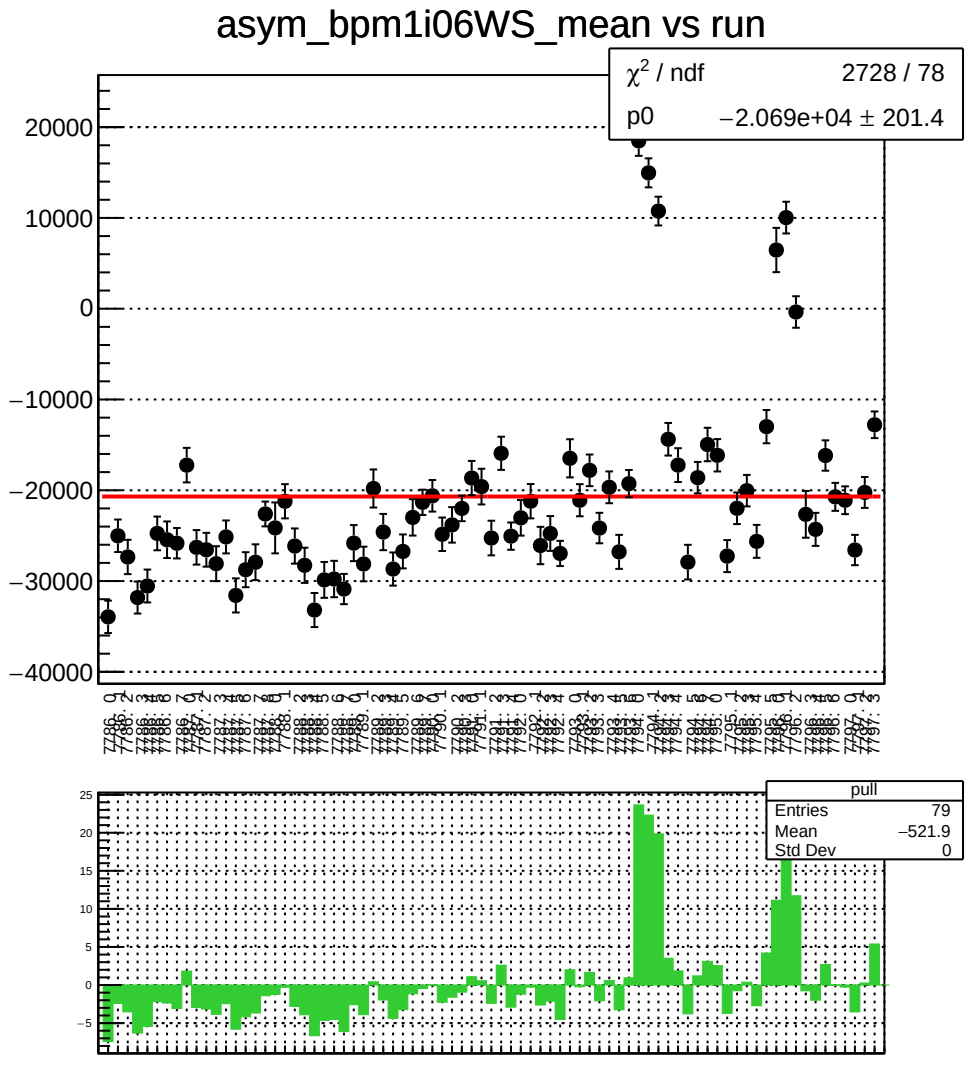

pull1D
Entries 79
Mean −1.434
Std Dev 2.863
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

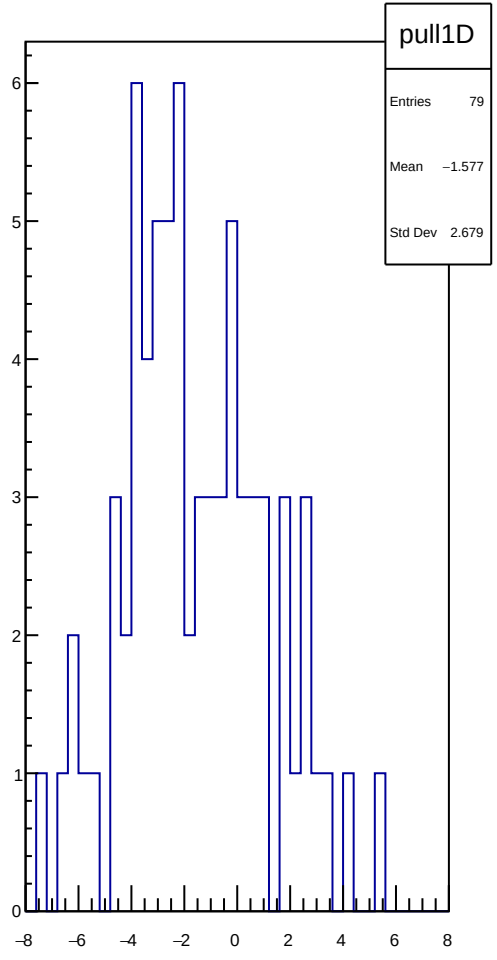

asym_bpm1i02WS_rms vs run
χ² / ndf 1.112e+04 / 78
p0 145.7 ± 0.1181
260
240
220
200
180
160
140
120

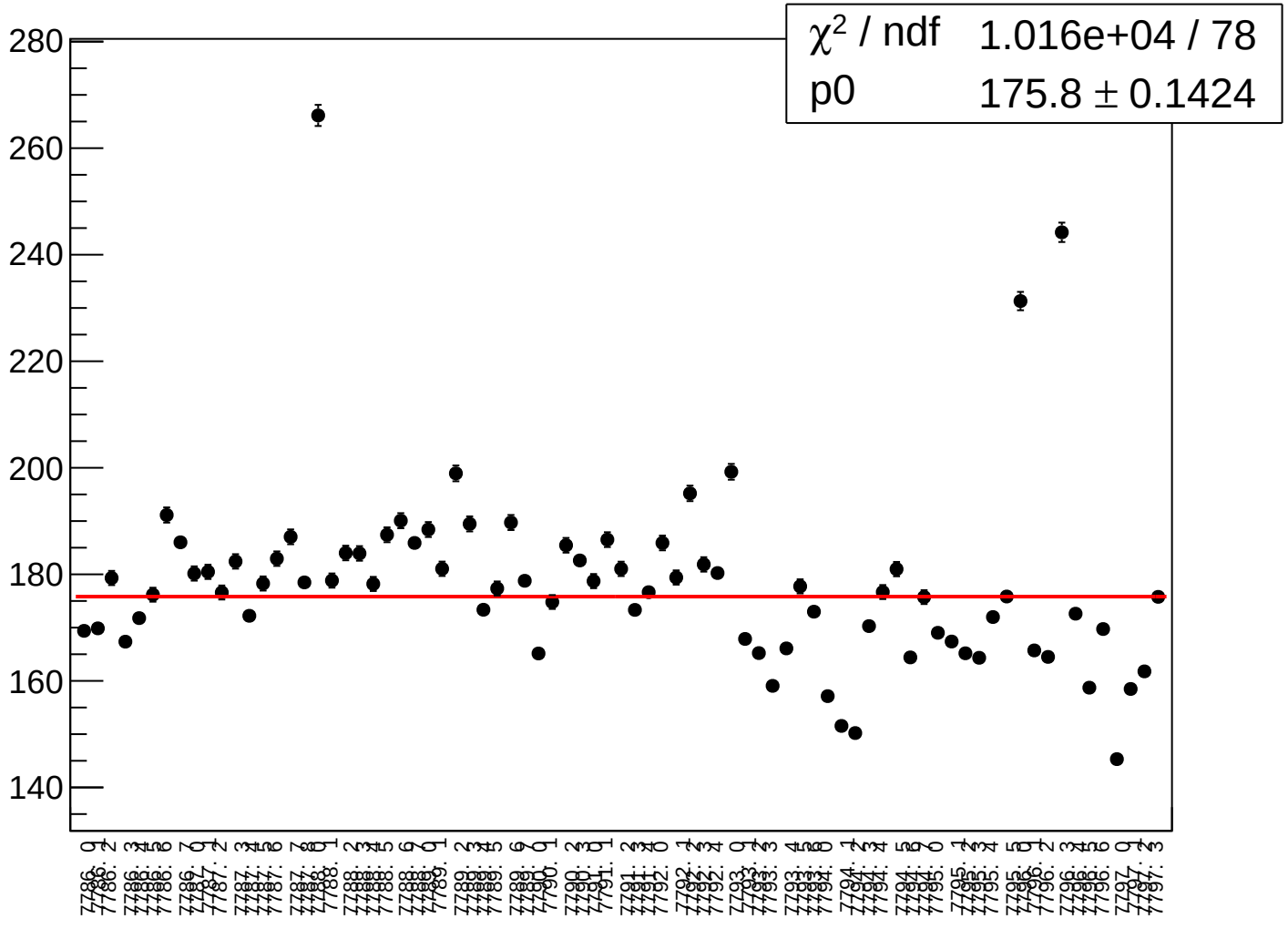

asym_bpm1i04WS_mean vs run
χ² / ndf 3069 / 78
p0 −1.879e+04 ± 174.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −323
Std Dev 0
25
20
15
10
5
0
−5

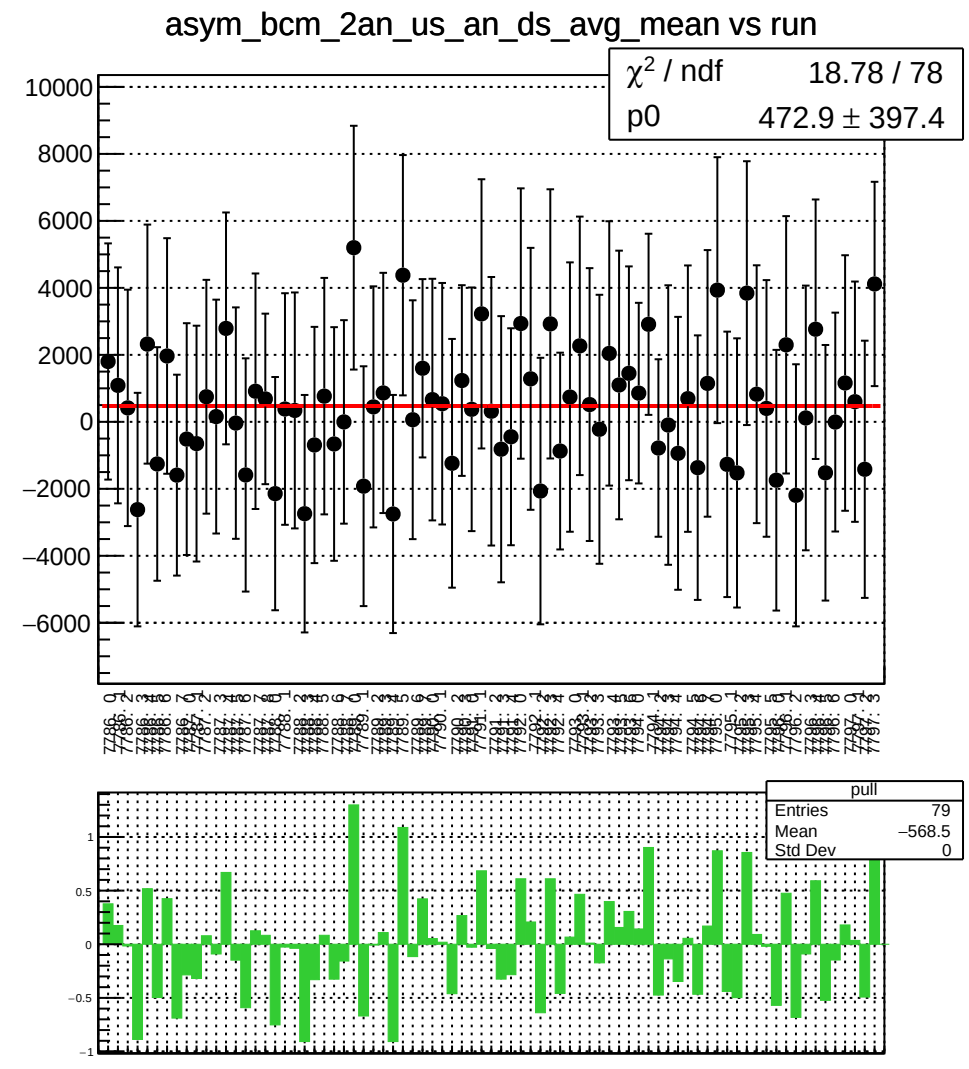

pull1D
Entries 79
Mean −1.741
Std Dev 2.793
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

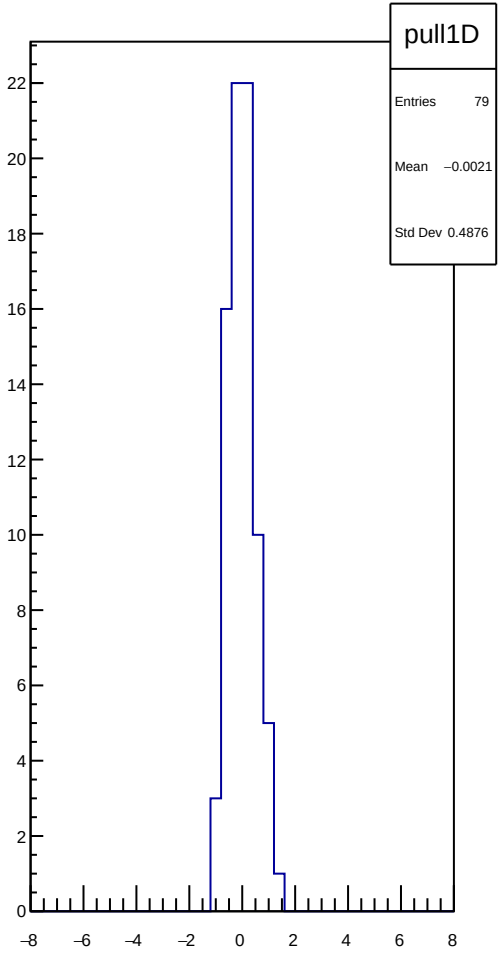

asym_bpm1i04WS_rms vs run
χ² / ndf 1.375e+04 / 78
p0 152.1 ± 0.1234
240
220
200
180
160
140
120

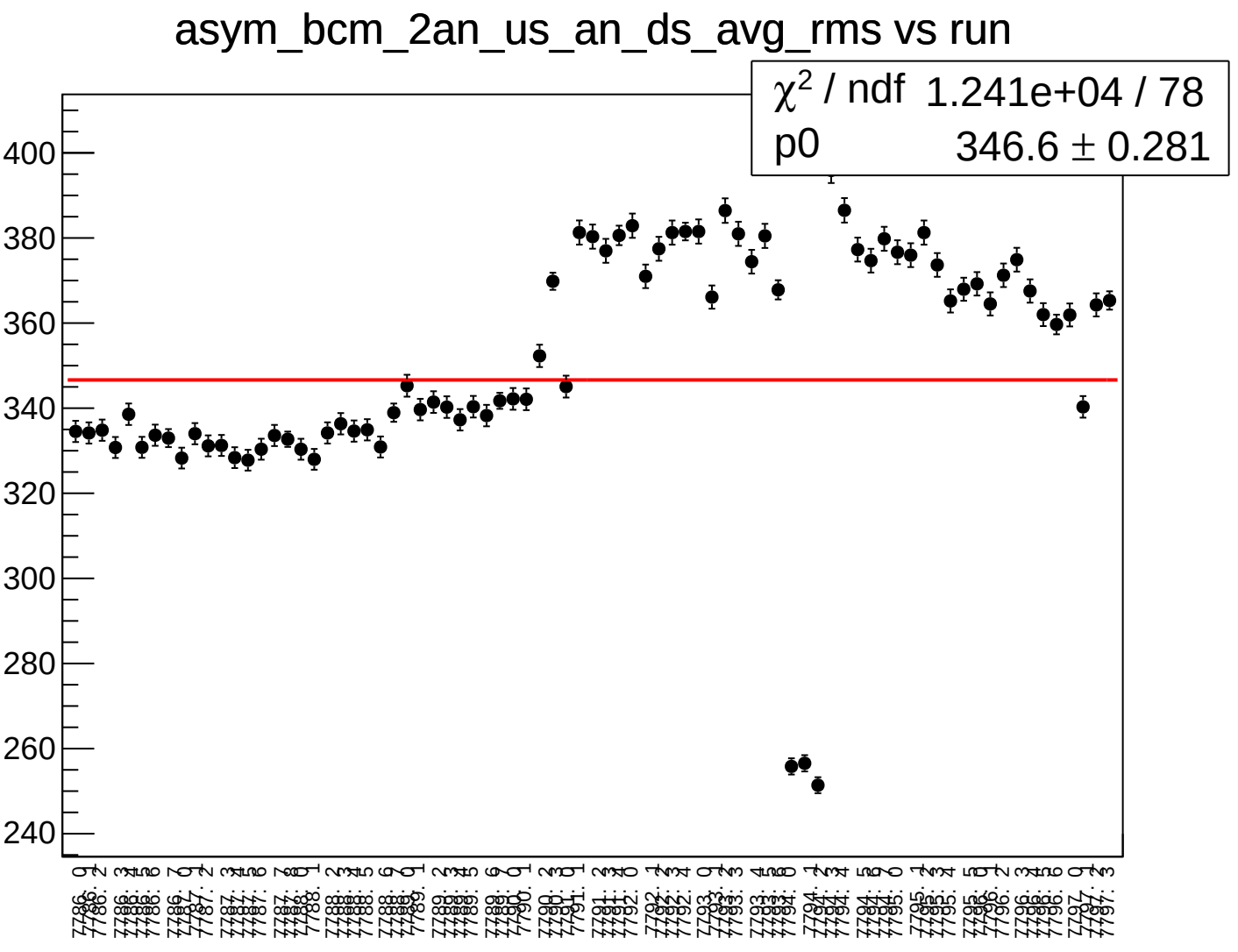

asym_bpm1i06WS_mean vs run
χ² / ndf 2728 / 78
p0 −2.069e+04 ± 201.4
pull
Entries 79
Mean −521.9
Std Dev 0

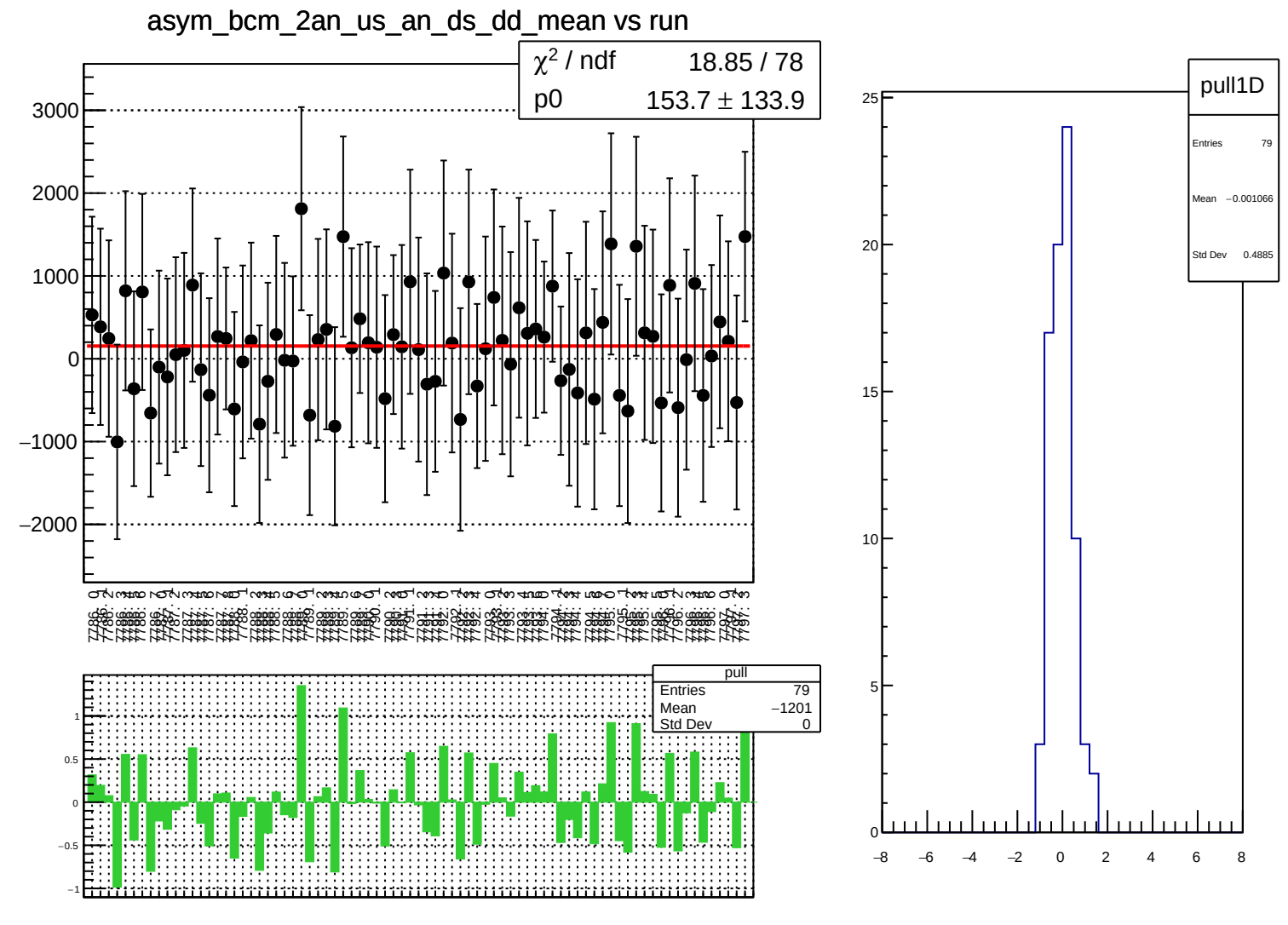

pull1D
Entries 79
Mean −1.577
Std Dev 2.679

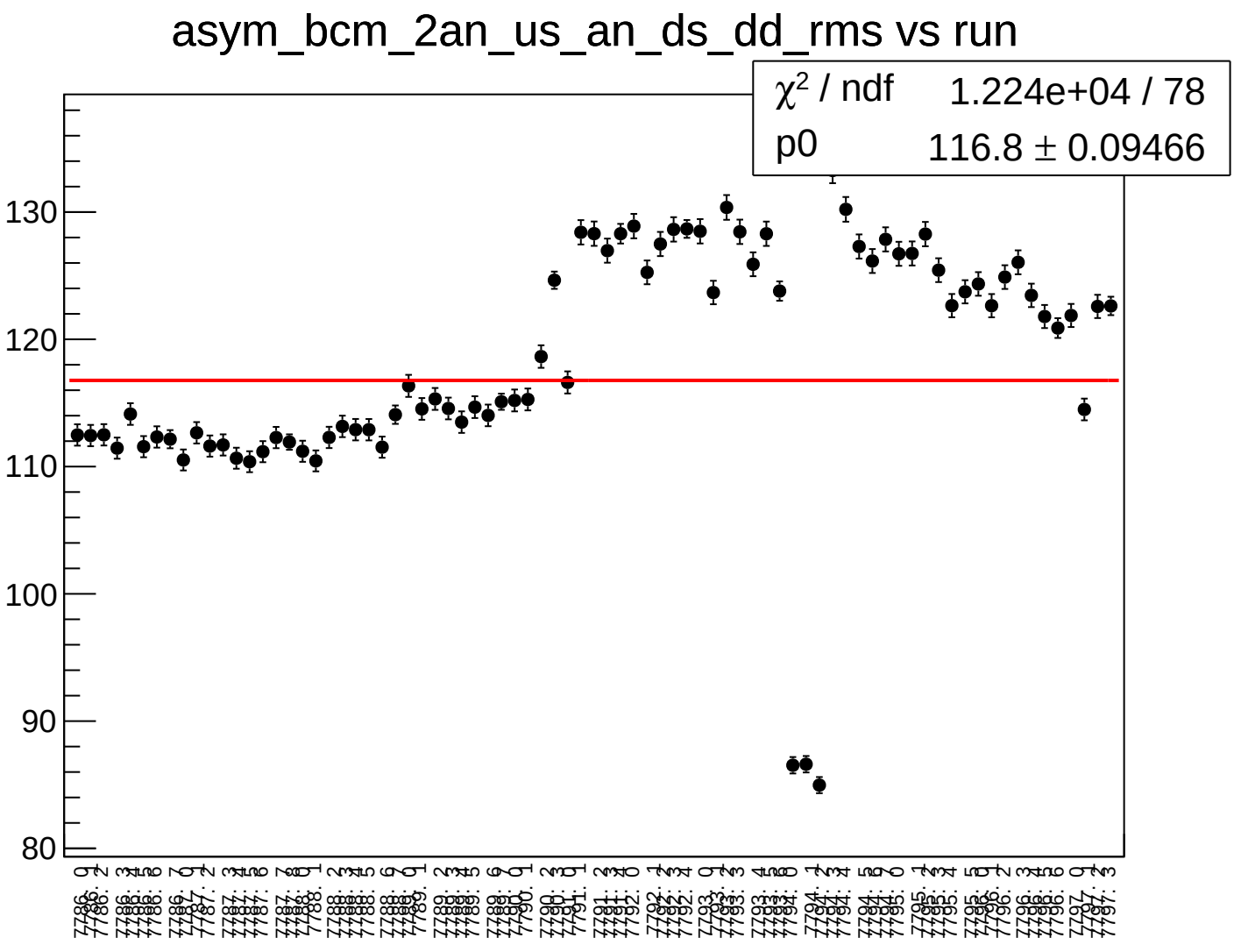

asym_bpm1i06WS_rms vs run
χ^2 / ndf 1.016e+04 / 78
p0 175.8 ± 0.1424
280
260
240
220
200
180
160
140

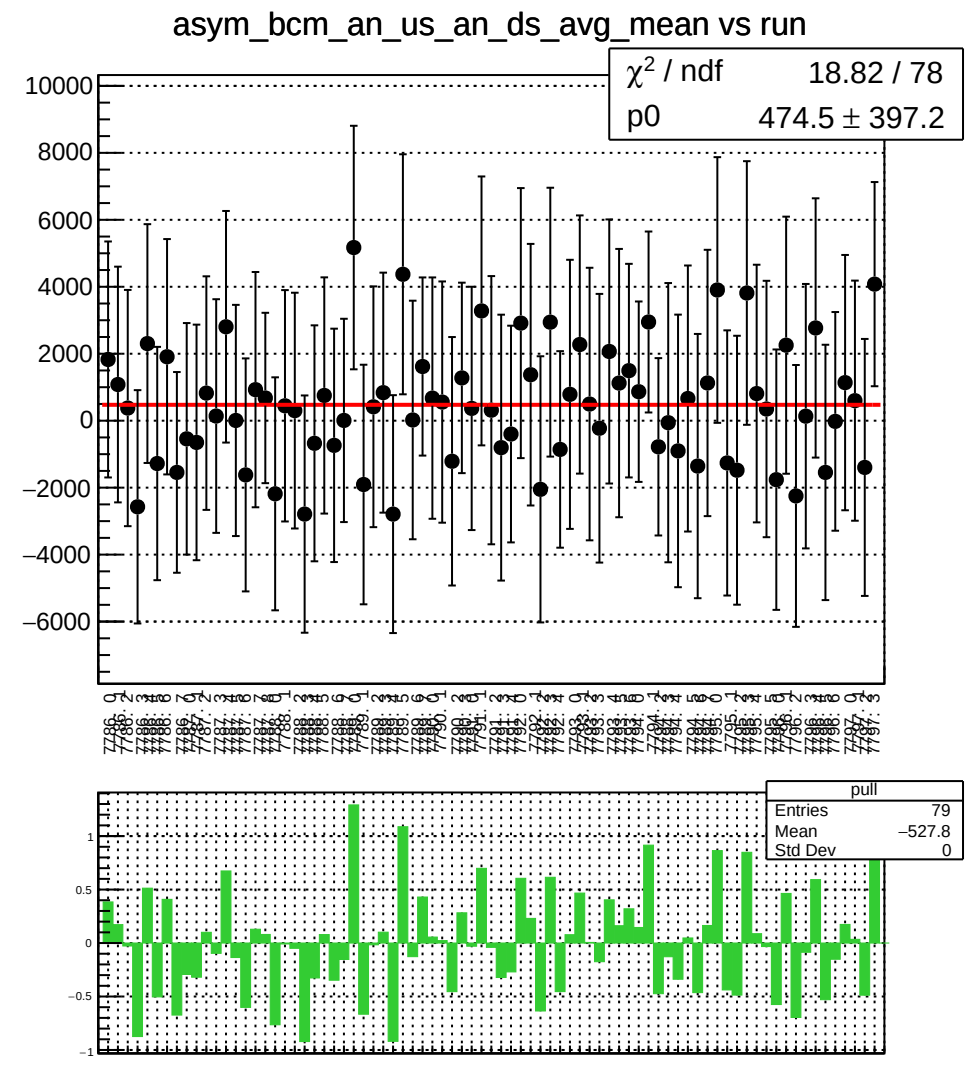

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 18.78 / 78
p0 472.9 ± 397.4
pull
Entries 79
Mean −568.5
Std Dev 0

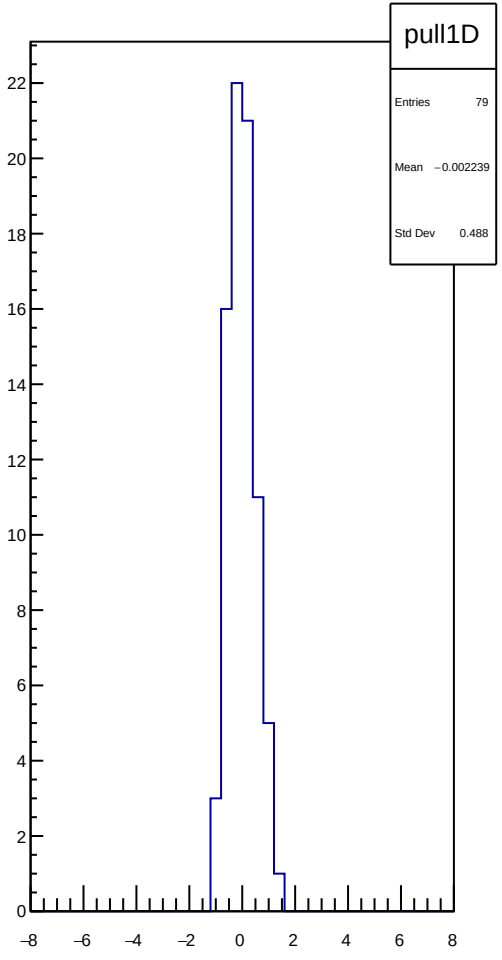

pull1D
Entries 79
Mean −0.0021
Std Dev 0.4876

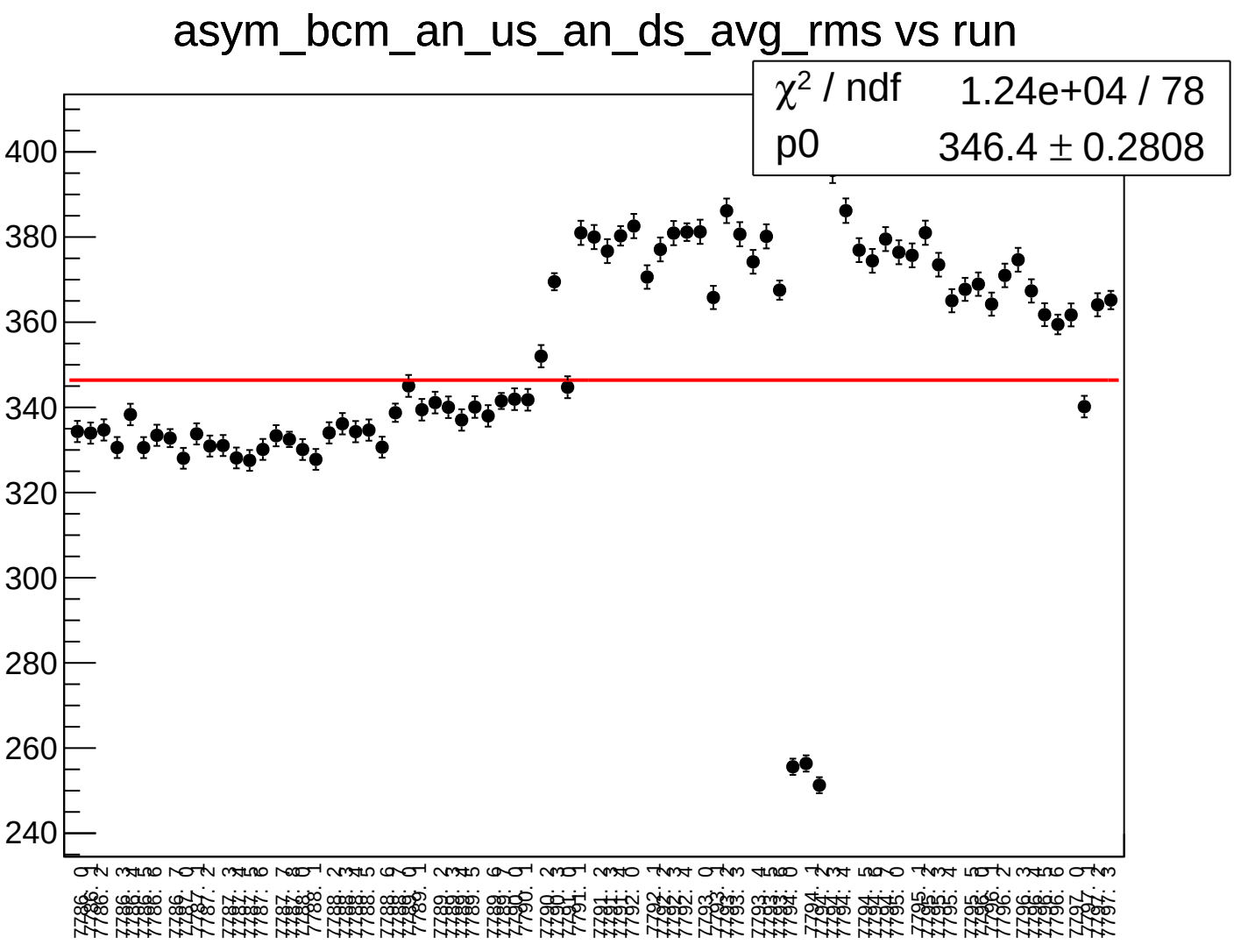

asym_bcm_2an_us_an_ds_avg_rms vs run
χ^2 / ndf 1.241e+04 / 78
p0 346.6 ± 0.281
400
380
360
340
320
300
280
260
240

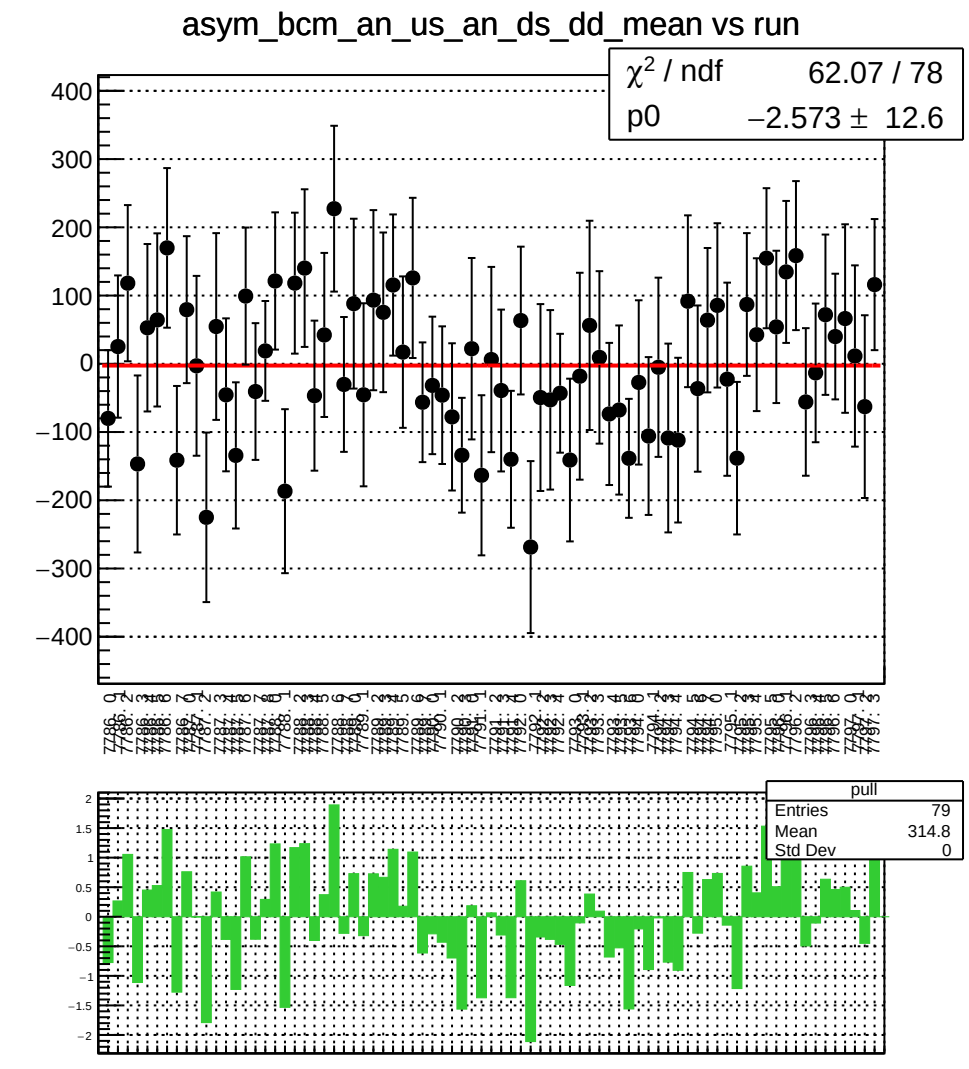

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 18.85 / 78
p0 153.7 ± 133.9
3000
2000
1000
0
−1000
−2000
pull
Entries 79
Mean −1201
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 79
Mean −0.001066
Std Dev 0.4885
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

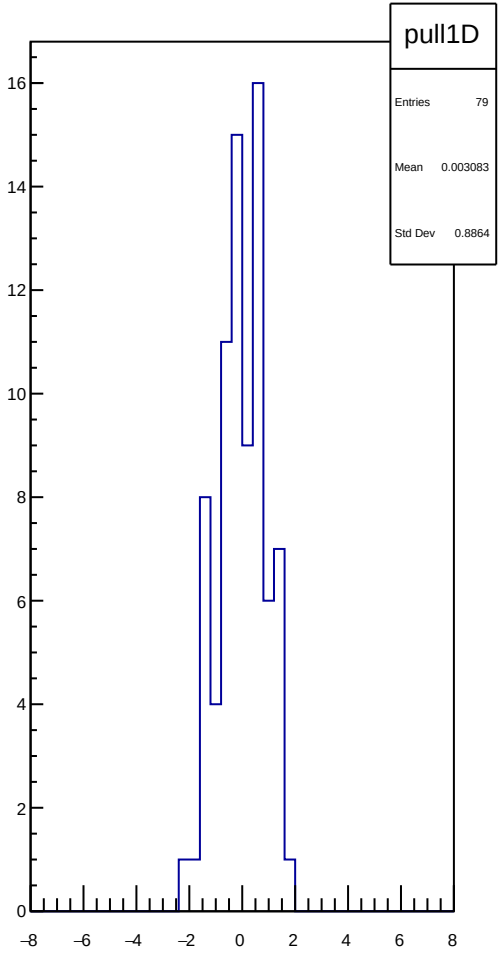

asym_bcm_2an_us_an_ds_dd_rms vs run
χ^2 / ndf 1.224e+04 / 78
p0 116.8 ± 0.09466
130
120
110
100
90
80

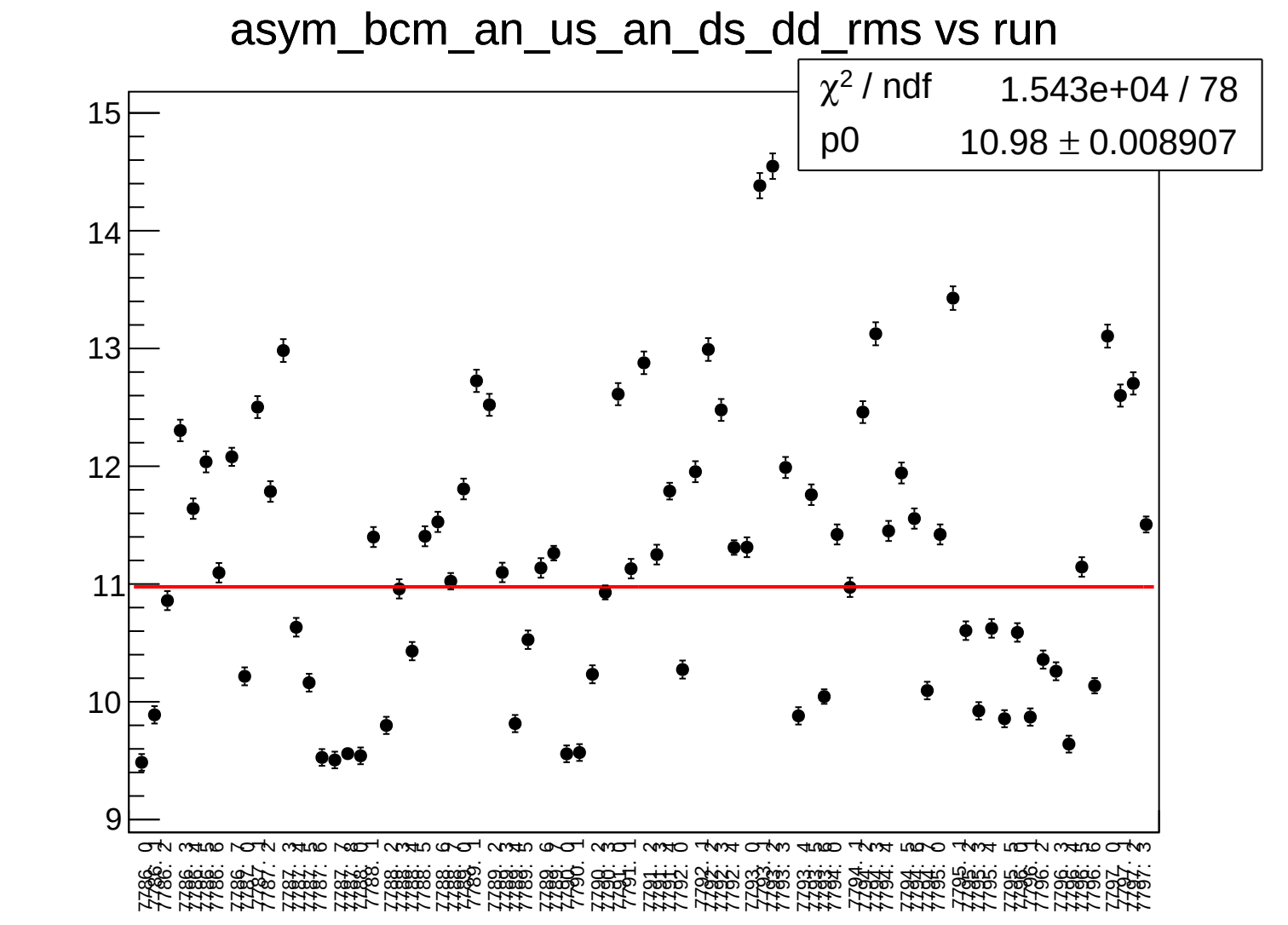

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 18.82 / 78
p0 474.5 ± 397.2
pull
Entries 79
Mean −527.8
Std Dev 0

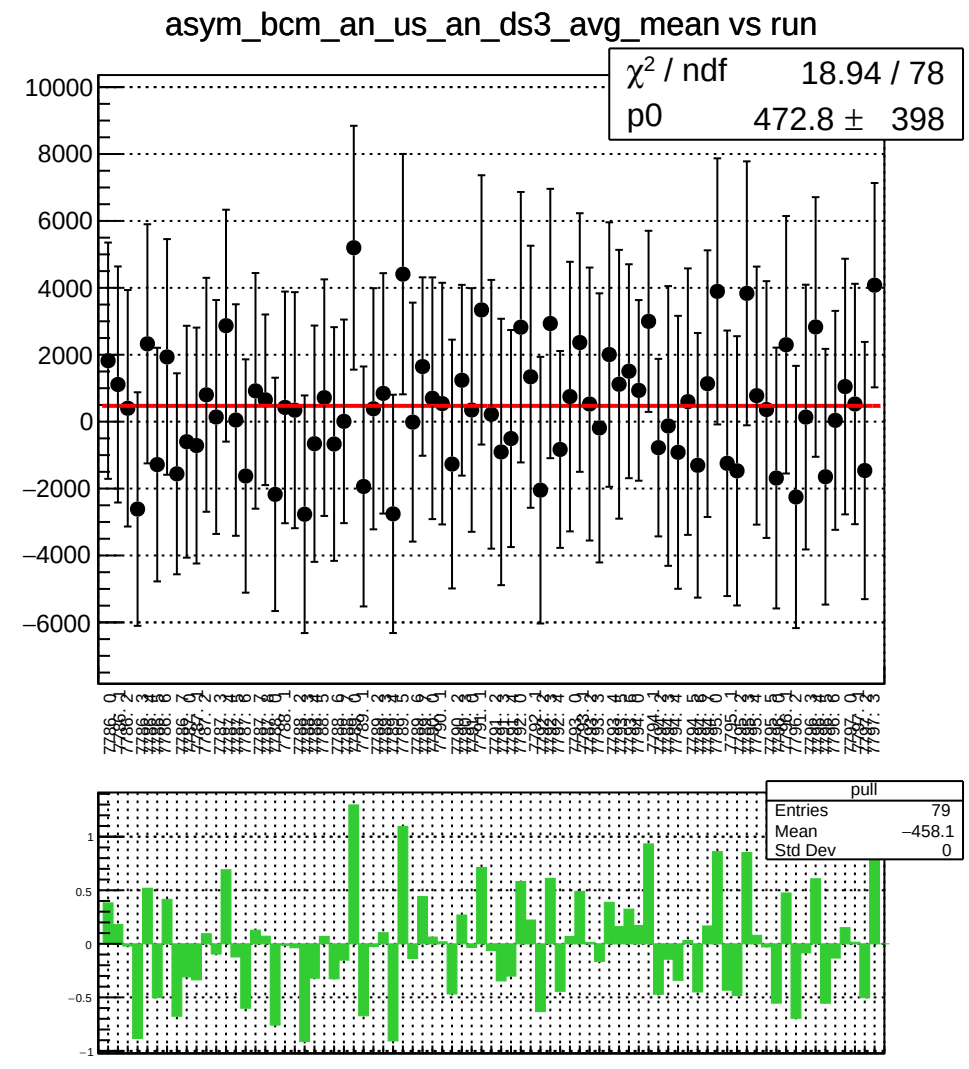

pull1D
Entries 79
Mean −0.002239
Std Dev 0.488

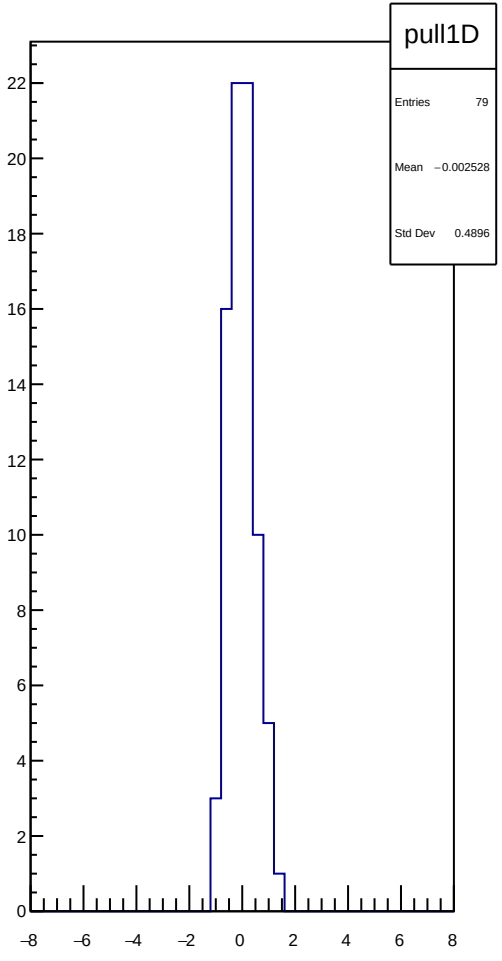

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1.24e+04 / 78
p0 346.4 ± 0.2808
400
380
360
340
320
300
280
260
240

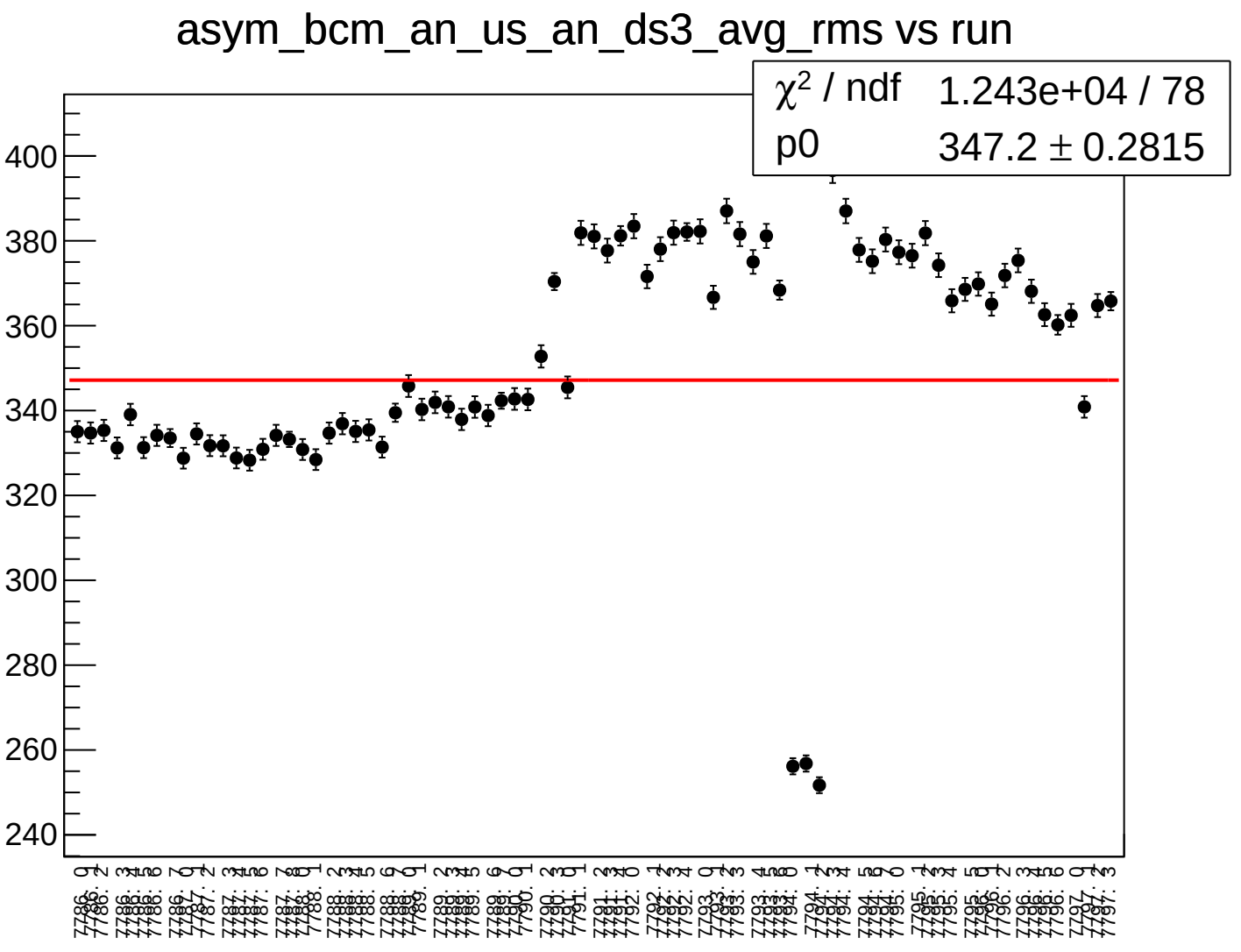

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 62.07 / 78
p0 −2.573 ± 12.6
pull
Entries 79
Mean 314.8
Std Dev 0

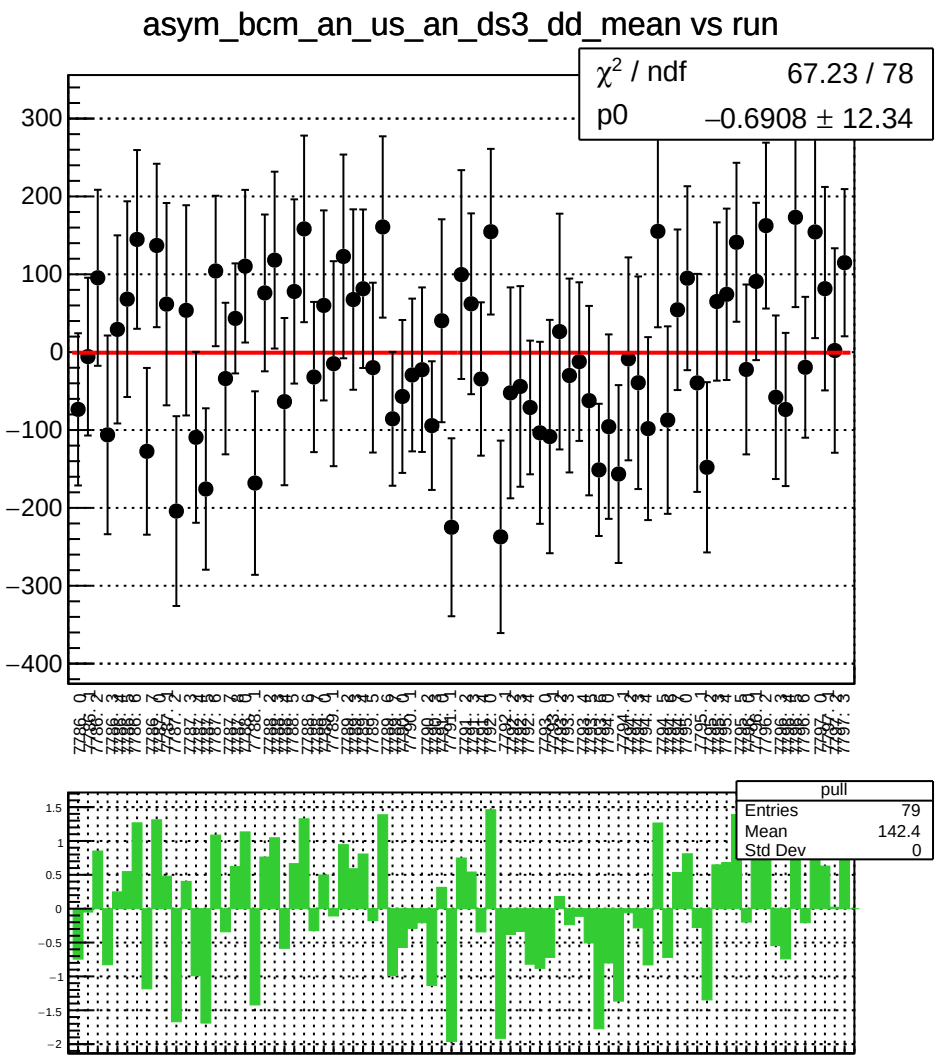

pull1D
Entries 79
Mean 0.003083
Std Dev 0.8864

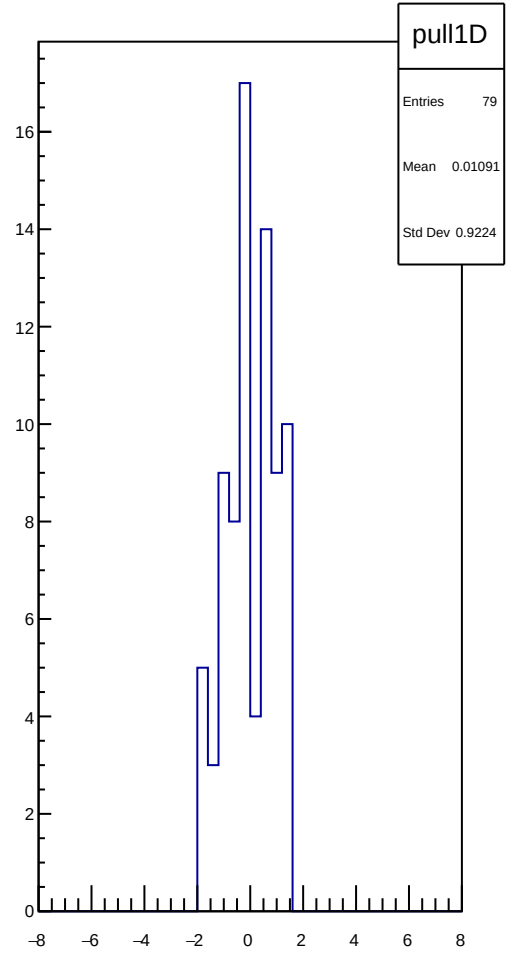

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.543e+04 / 78
p0 10.98 ± 0.008907
15
14
13
12
11
10
9

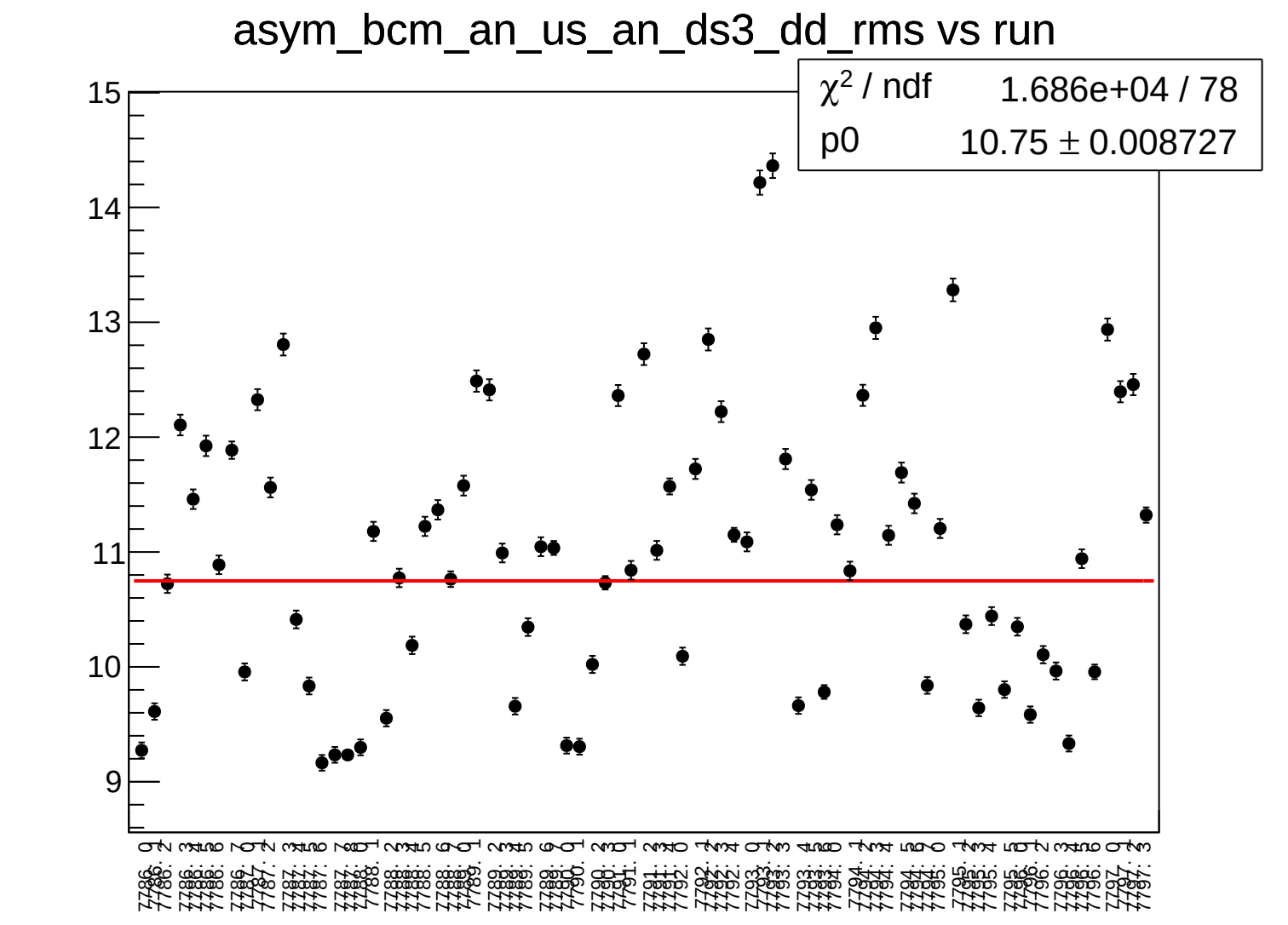

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 18.94 / 78
p0 472.8 ± 398
pull
Entries 79
Mean −458.1
Std Dev 0

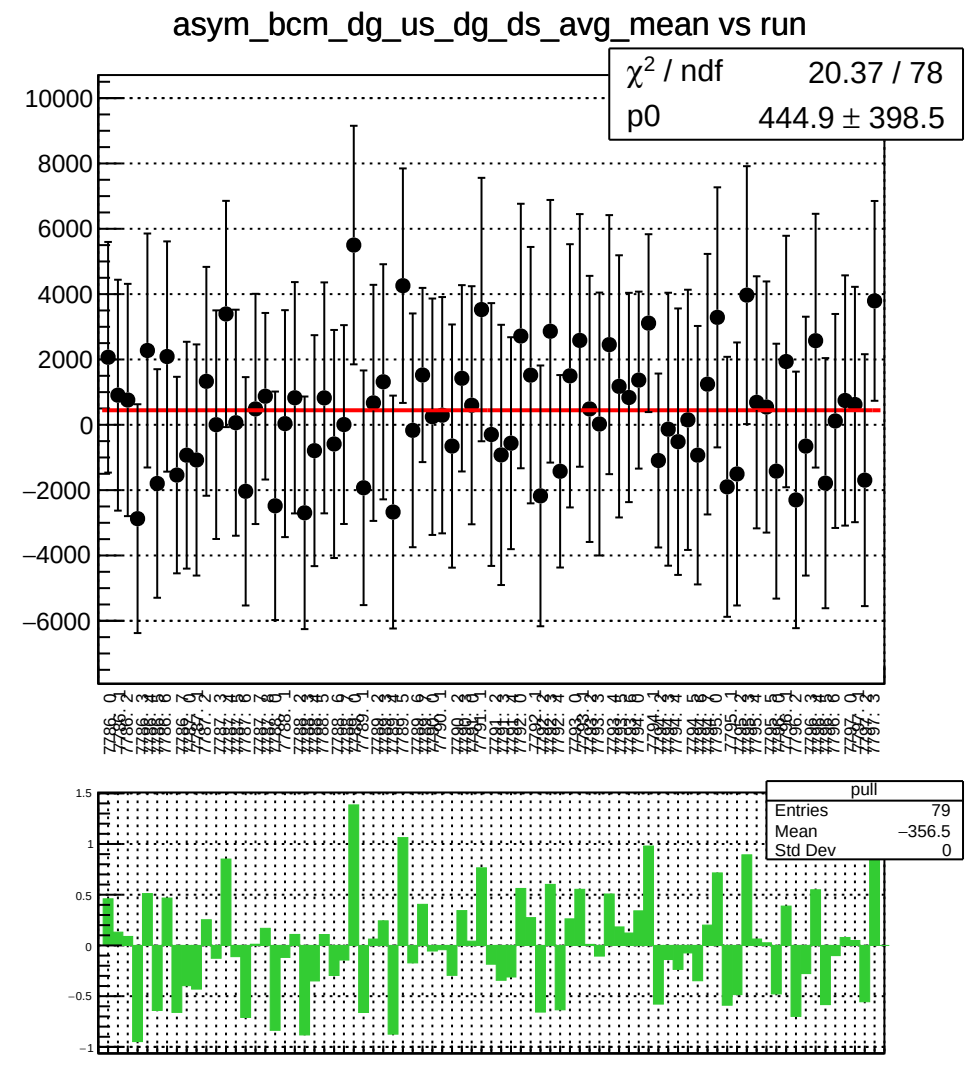

pull1D
Entries 79
Mean −0.002528
Std Dev 0.4896

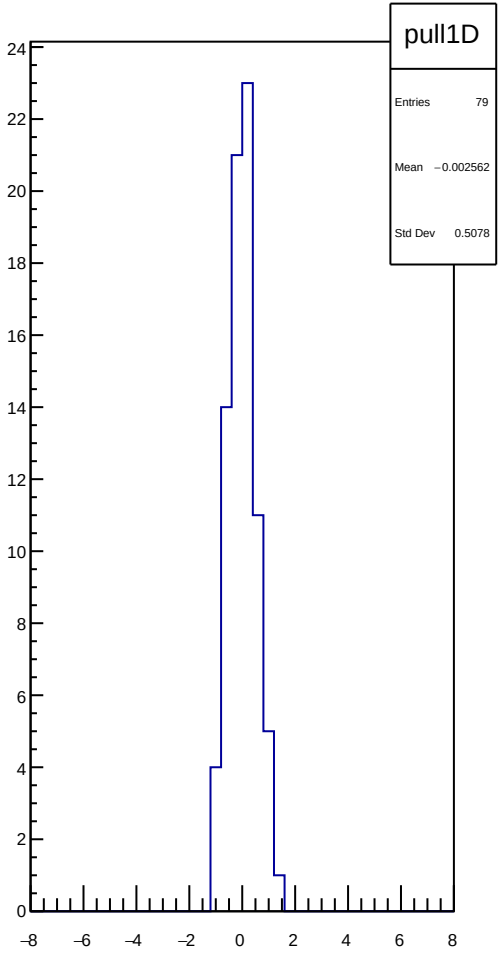

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1.243e+04 / 78
p0 347.2 ± 0.2815
400
380
360
340
320
300
280
260
240

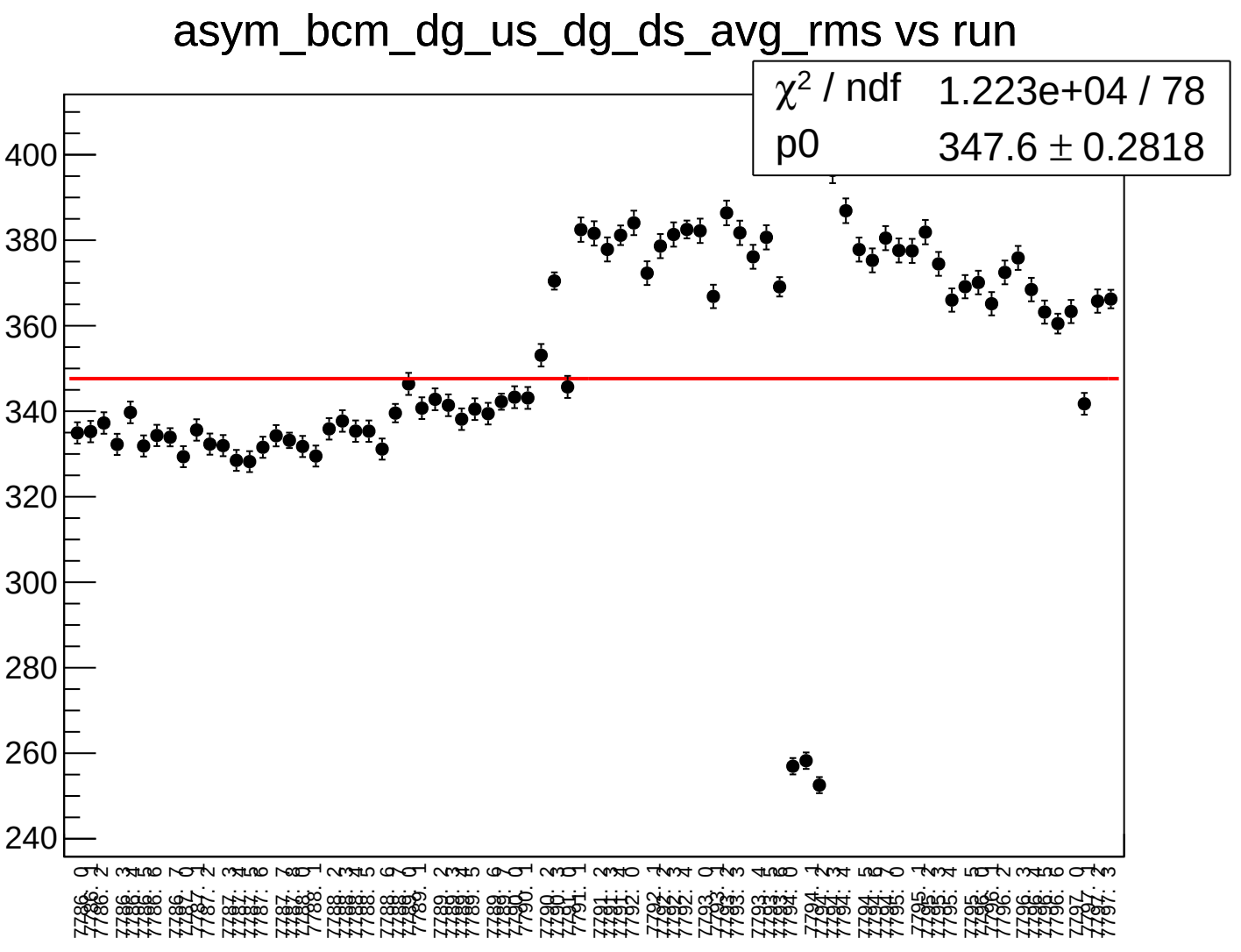

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 67.23 / 78
p0 −0.6908 ± 12.34
pull
Entries 79
Mean 142.4
Std Dev 0

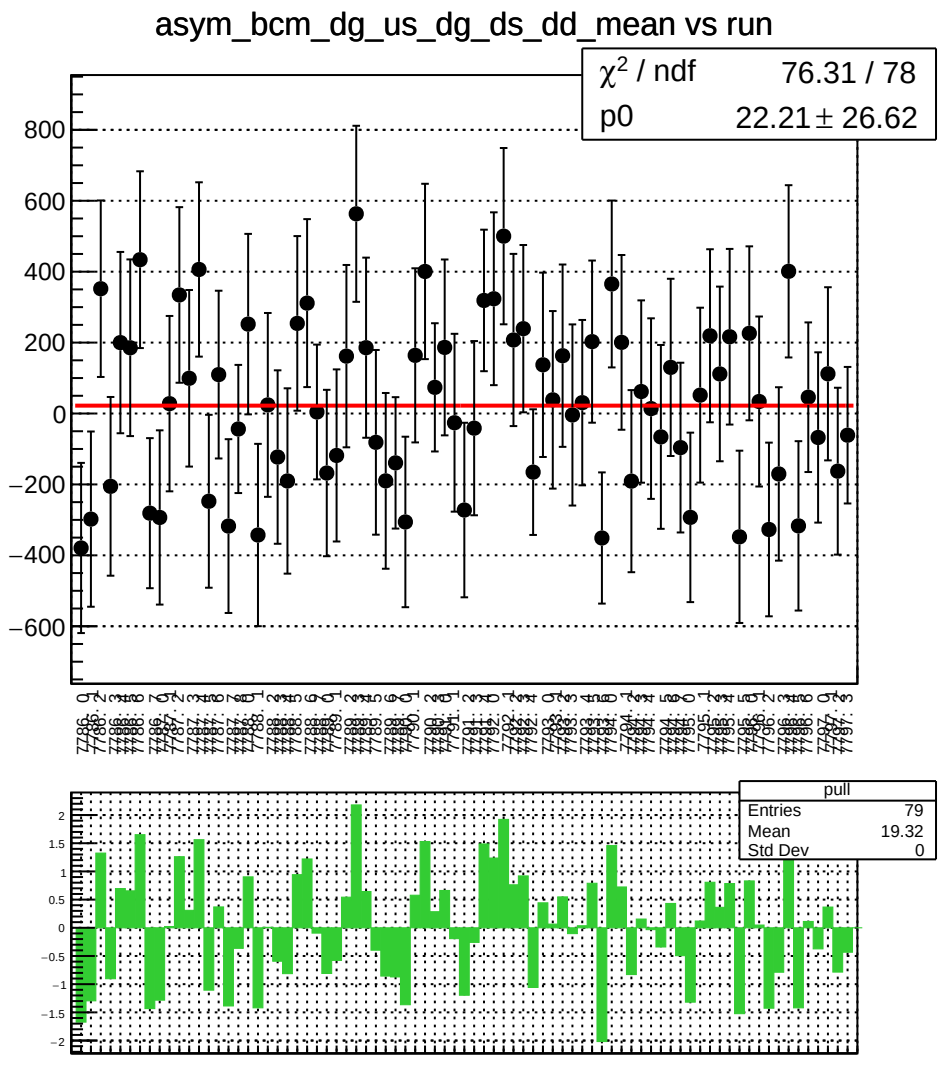

pull1D
Entries 79
Mean 0.01091
Std Dev 0.9224

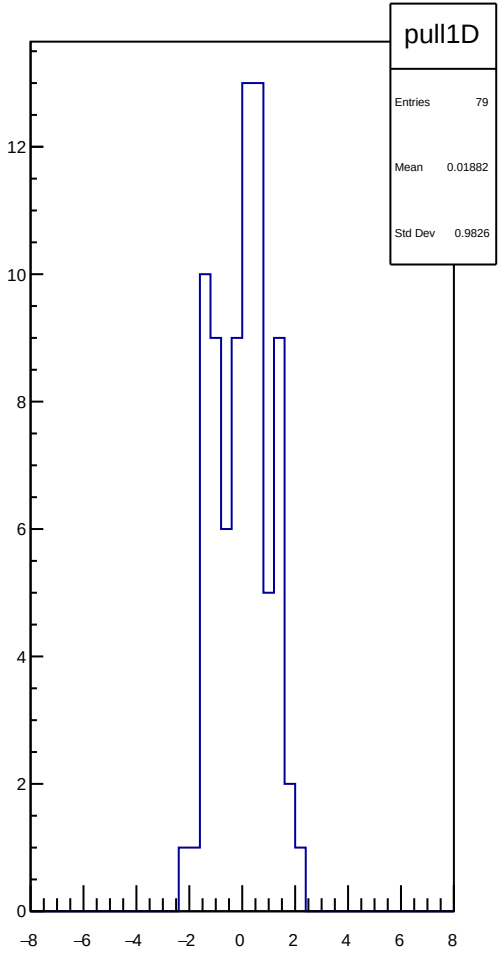

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 1.686e+04 / 78
p0 10.75 ± 0.008727
15
14
13
12
11
10
9

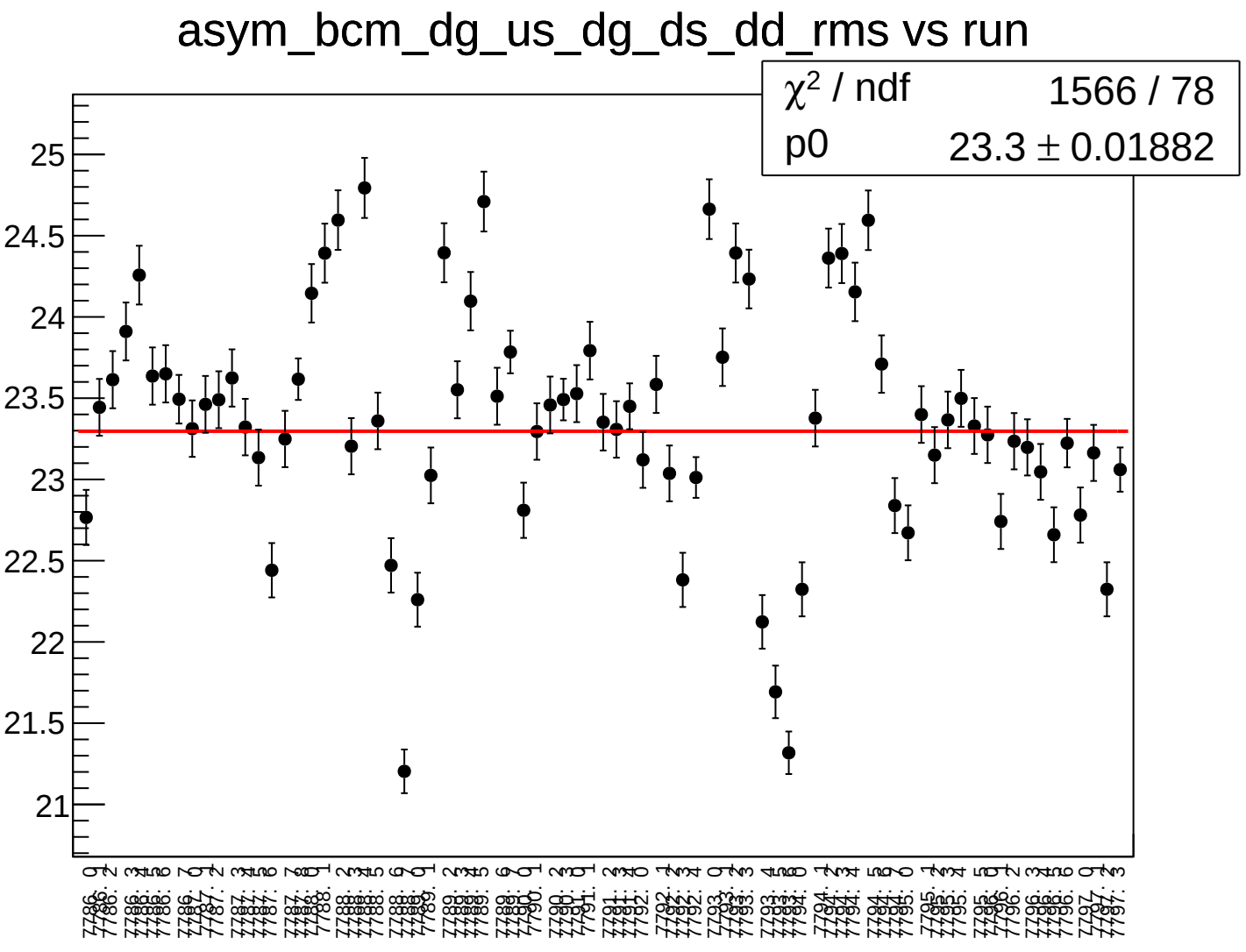

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 20.37 / 78
p0 444.9 ± 398.5
pull
Entries 79
Mean −356.5
Std Dev 0

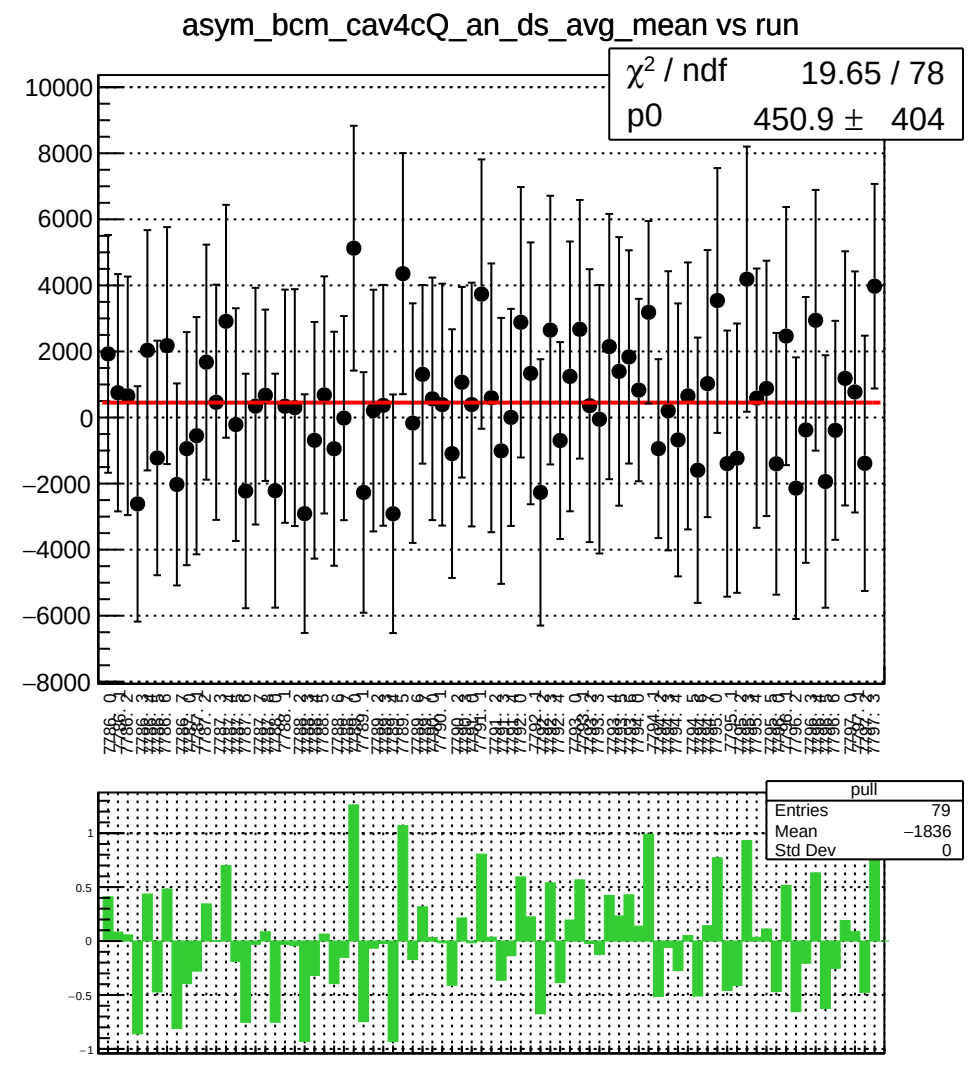

pull1D
Entries 79
Mean −0.002562
Std Dev 0.5078

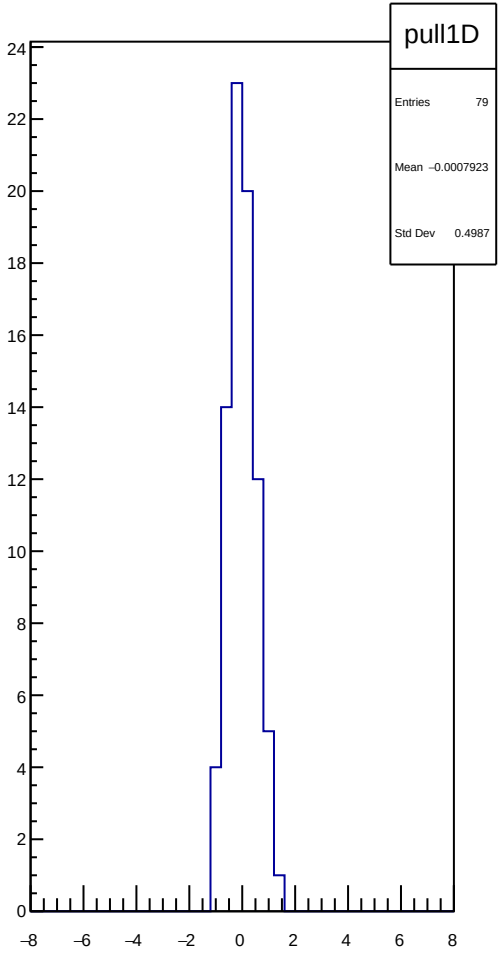

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.223e+04 / 78
p0 347.6 ± 0.2818
400
380
360
340
320
300
280
260
240

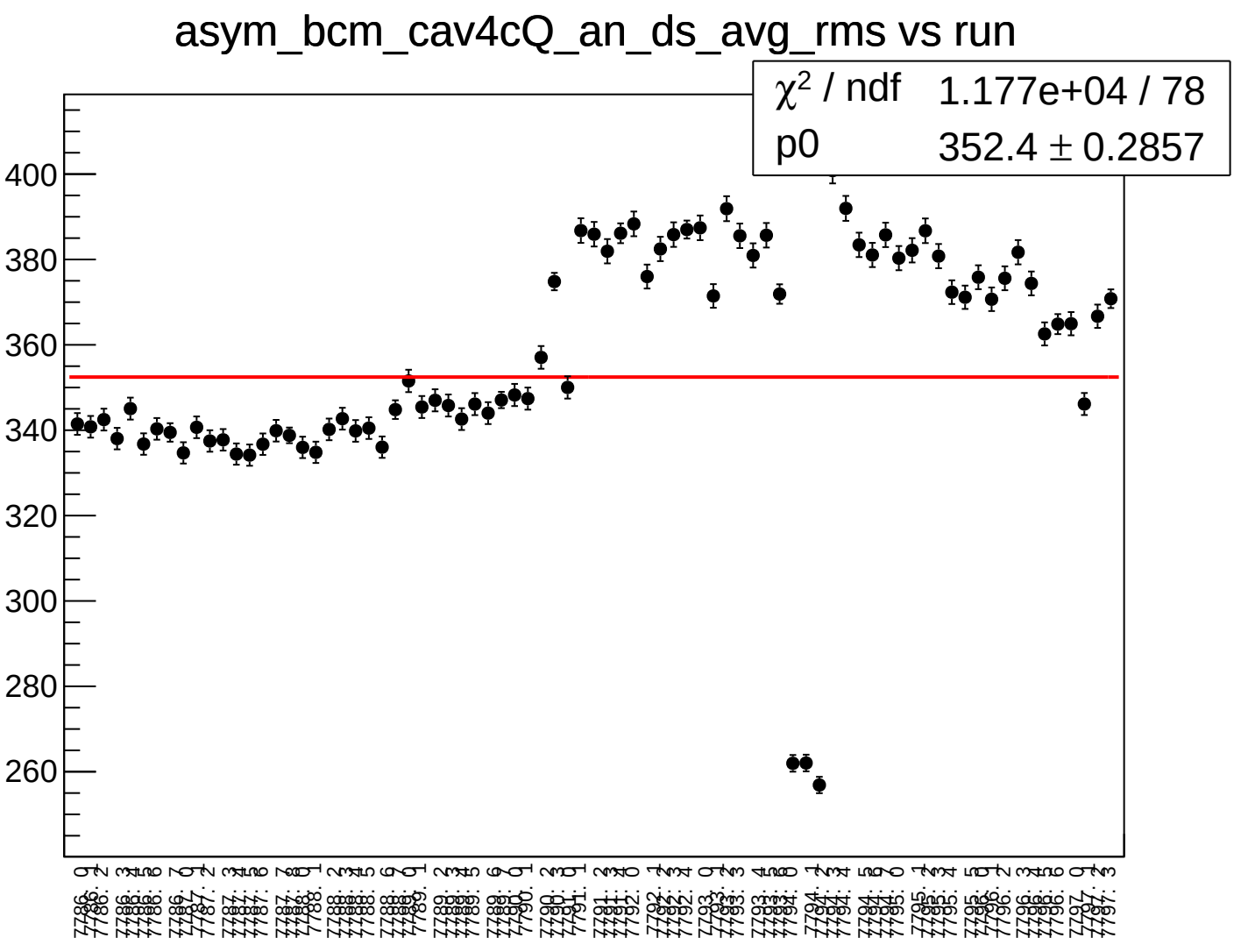

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 76.31 / 78
p0 22.21 ± 26.62
pull
Entries 79
Mean 19.32
Std Dev 0

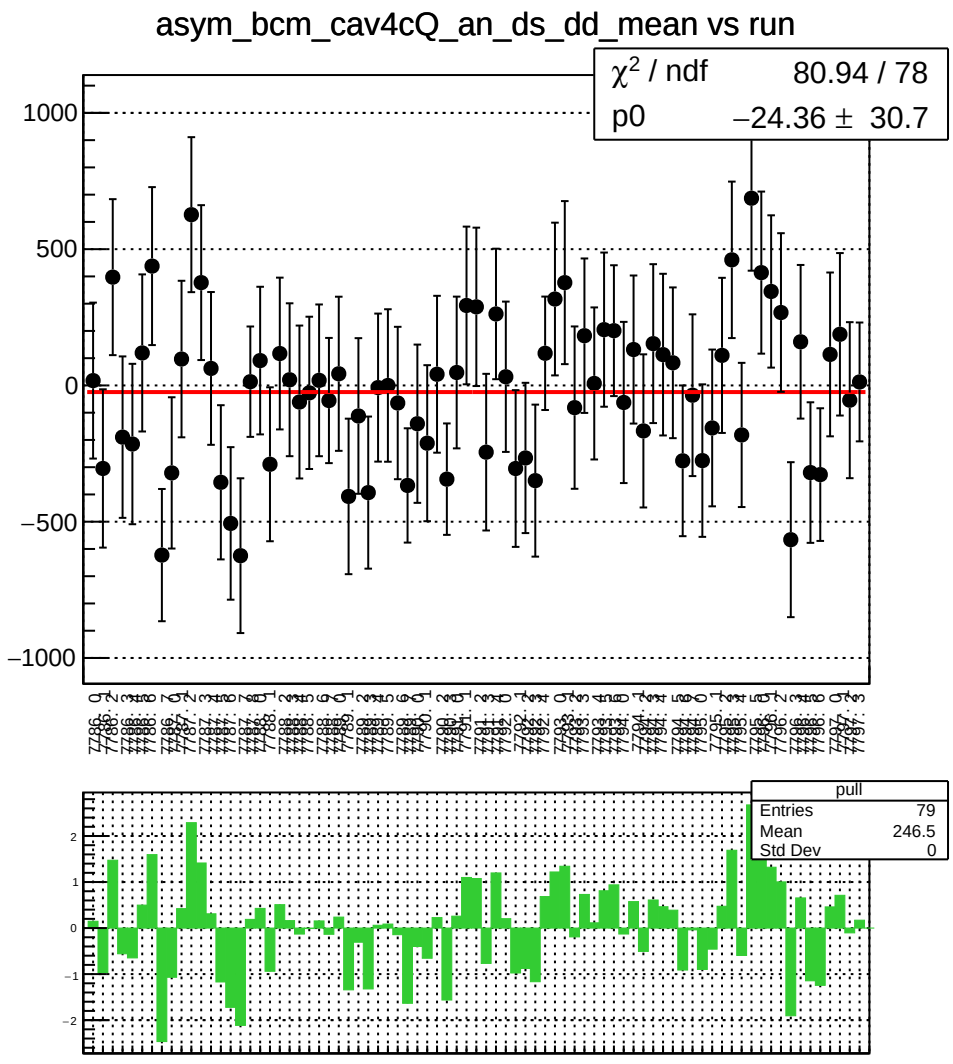

pull1D
Entries 79
Mean 0.01882
Std Dev 0.9826

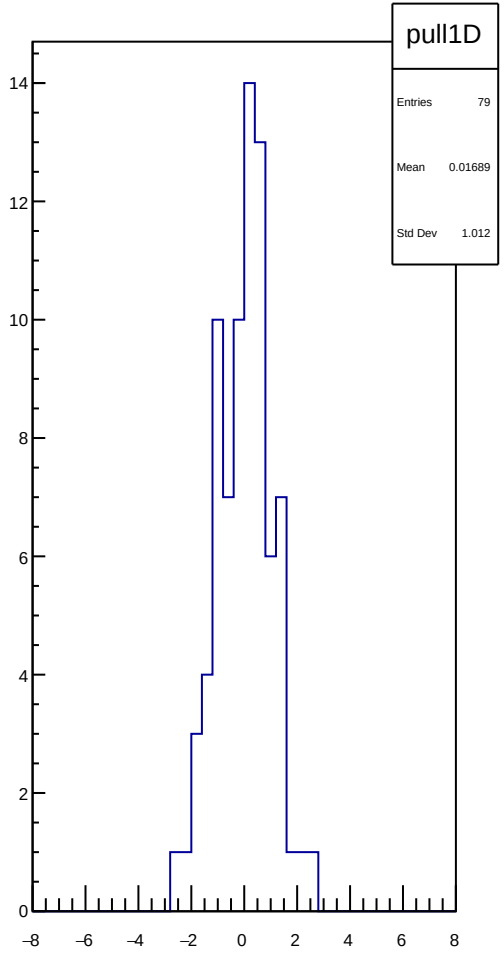

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1566 / 78
p0 23.3 ± 0.01882
25
24.5
24
23.5
23
22.5
22
21.5
21

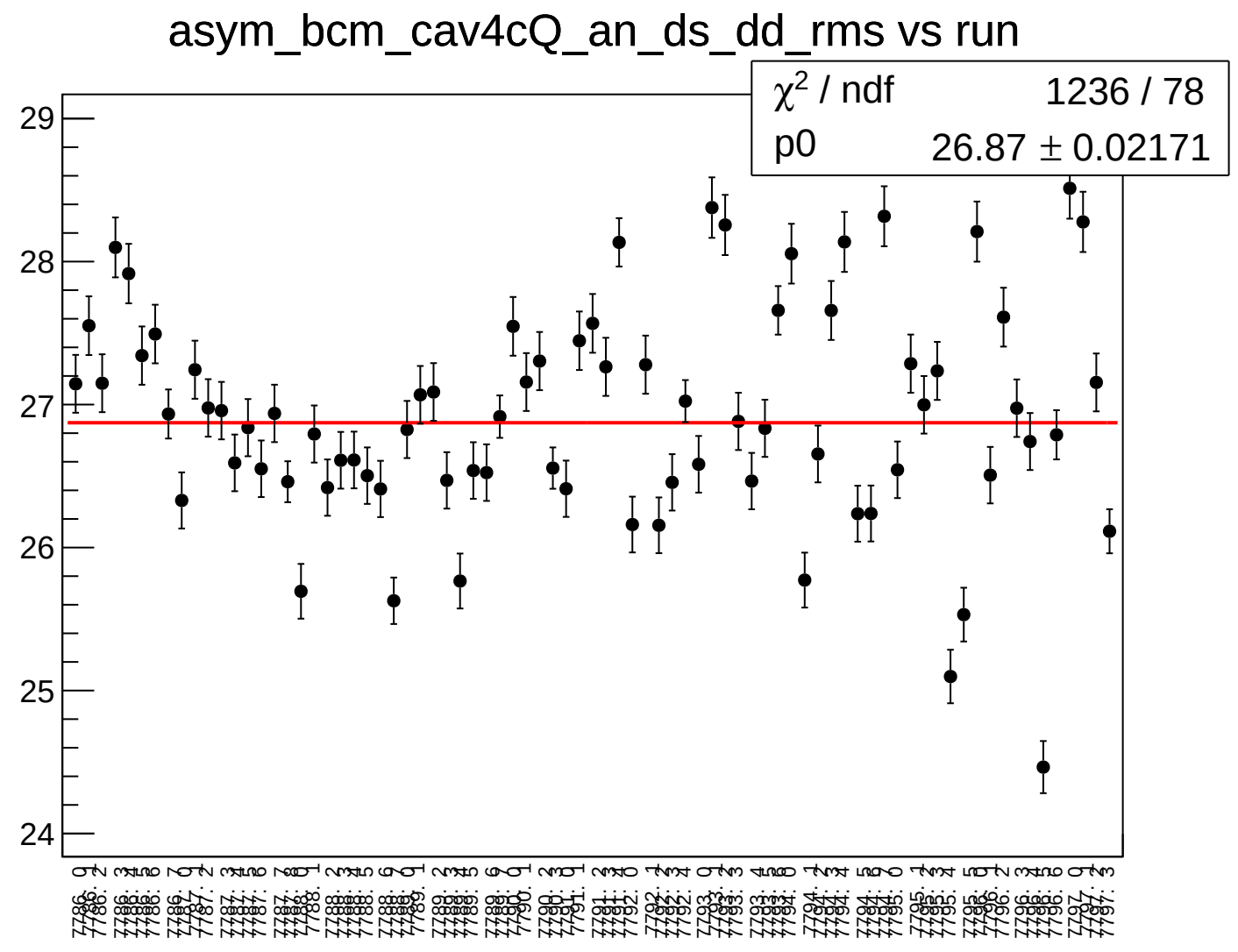

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 19.65 / 78
p0 450.9 ± 404
pull
Entries 79
Mean −1836
Std Dev 0

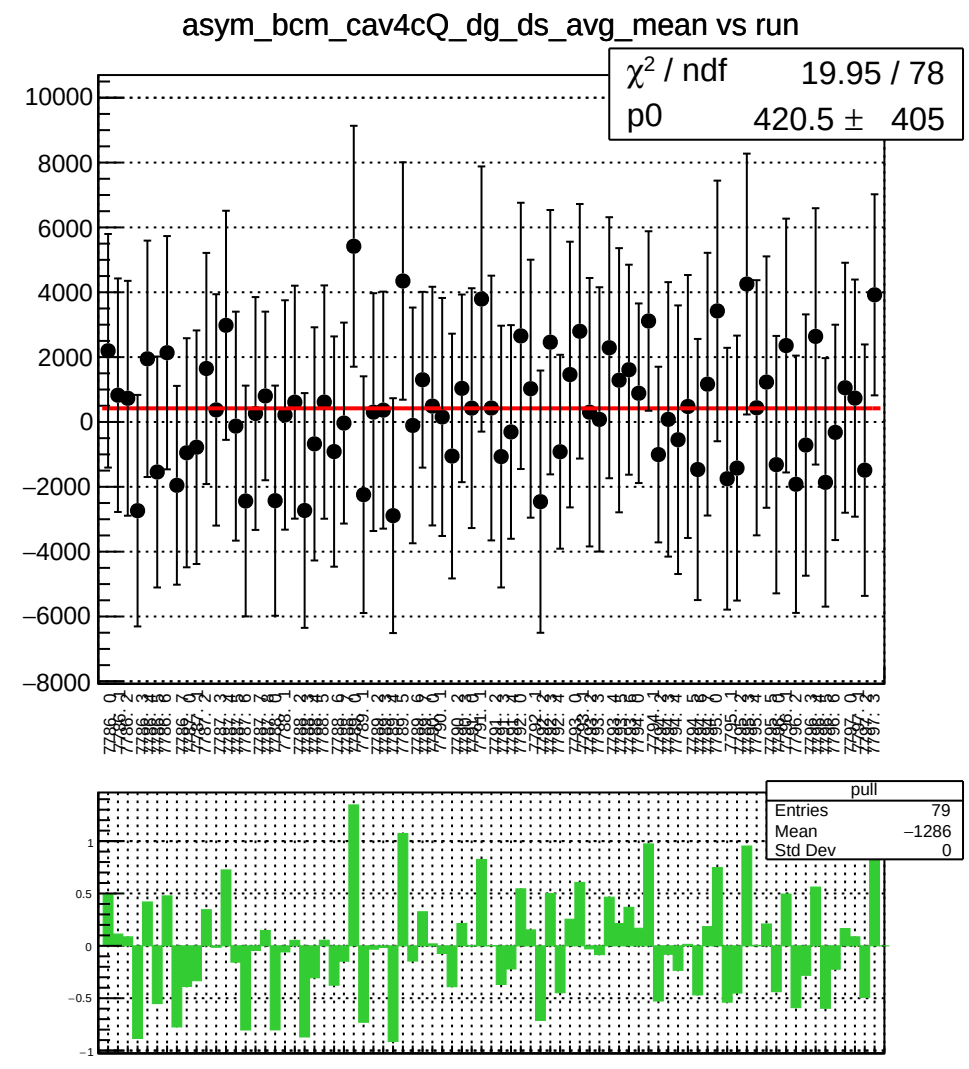

pull1D
Entries 79
Mean −0.0007923
Std Dev 0.4987

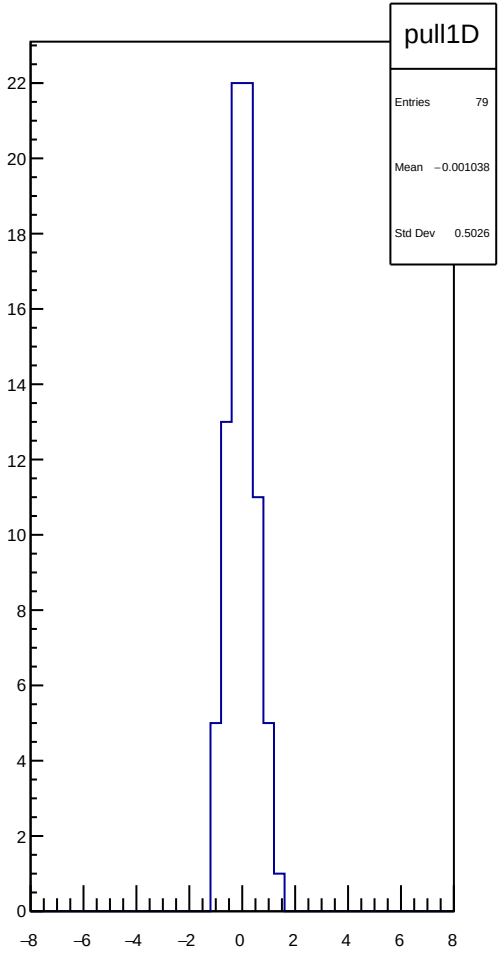

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ^2 / ndf 1.177e+04 / 78
p0 352.4 ± 0.2857
400
380
360
340
320
300
280
260

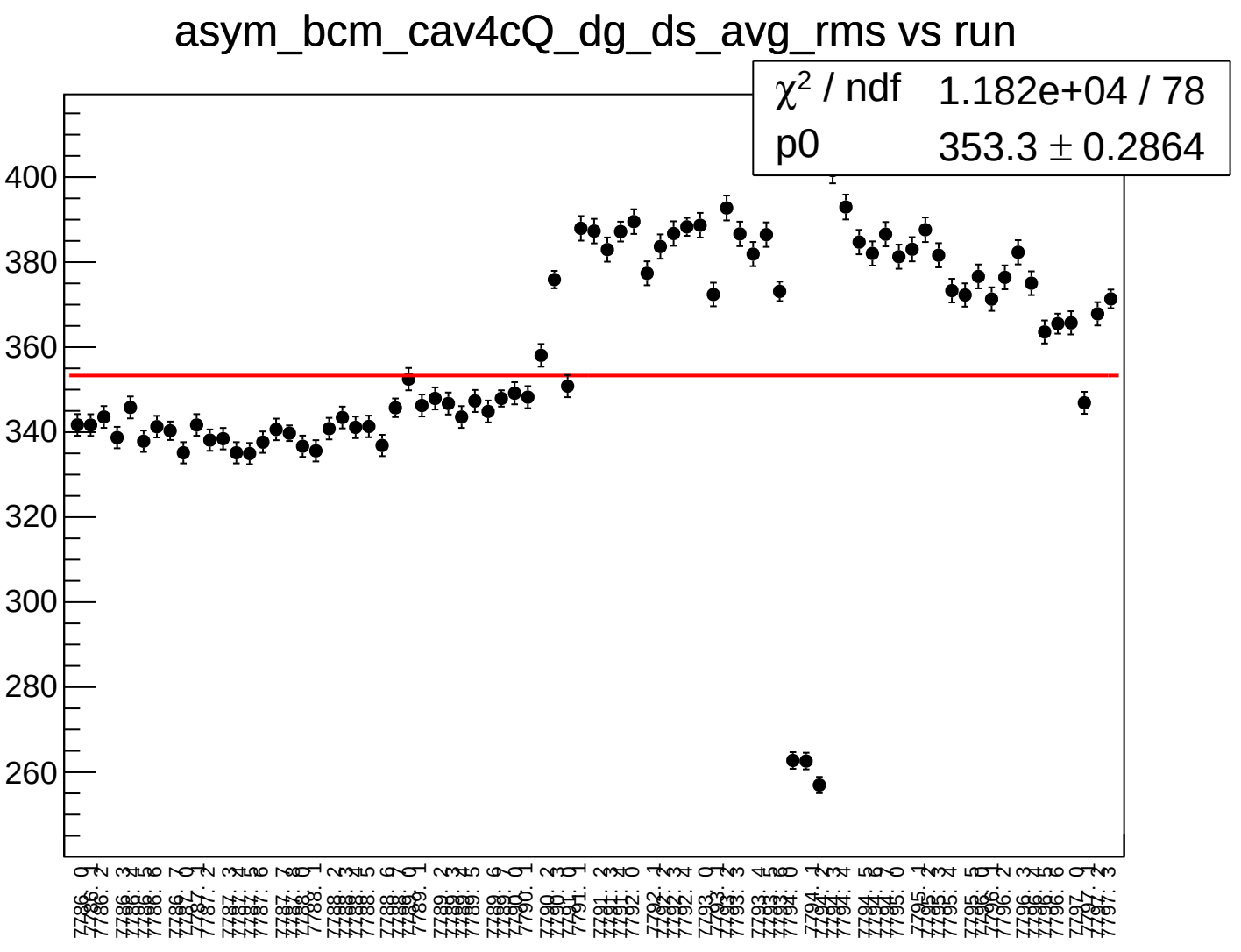

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 80.94 / 78
p0 −24.36 ± 30.7
1000
500
0
−500
−1000
pull
Entries 79
Mean 246.5
Std Dev 0
2
1
0
−1
−2

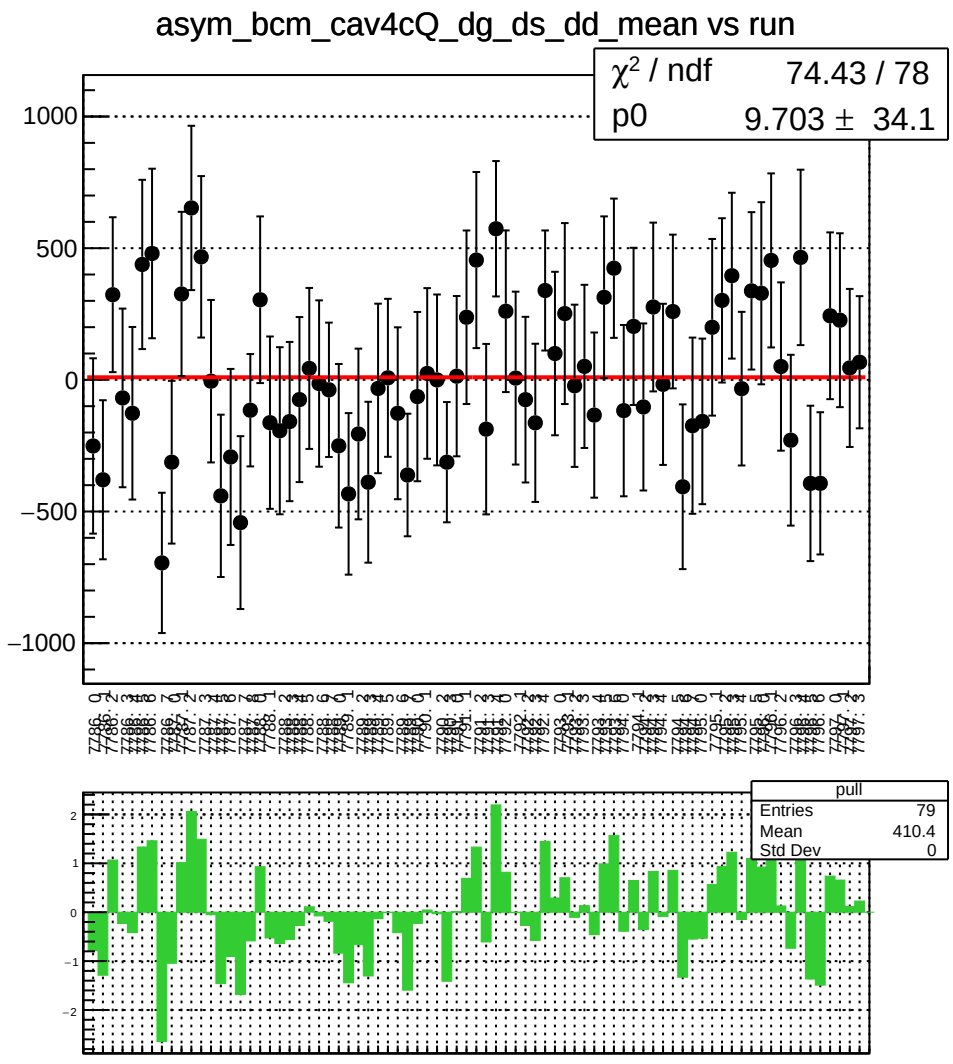

pull1D
Entries 79
Mean 0.01689
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

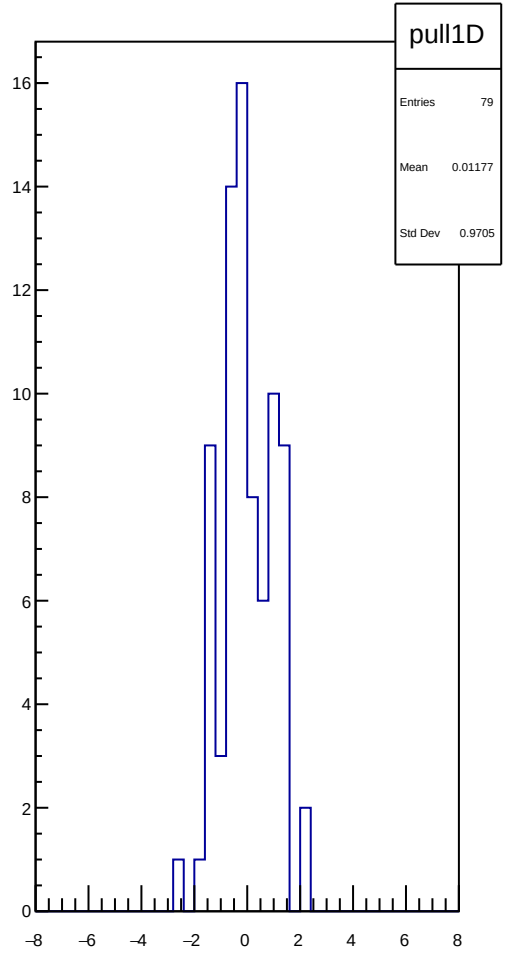

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 1236 / 78
p0 26.87 ± 0.02171
29
28
27
26
25
24

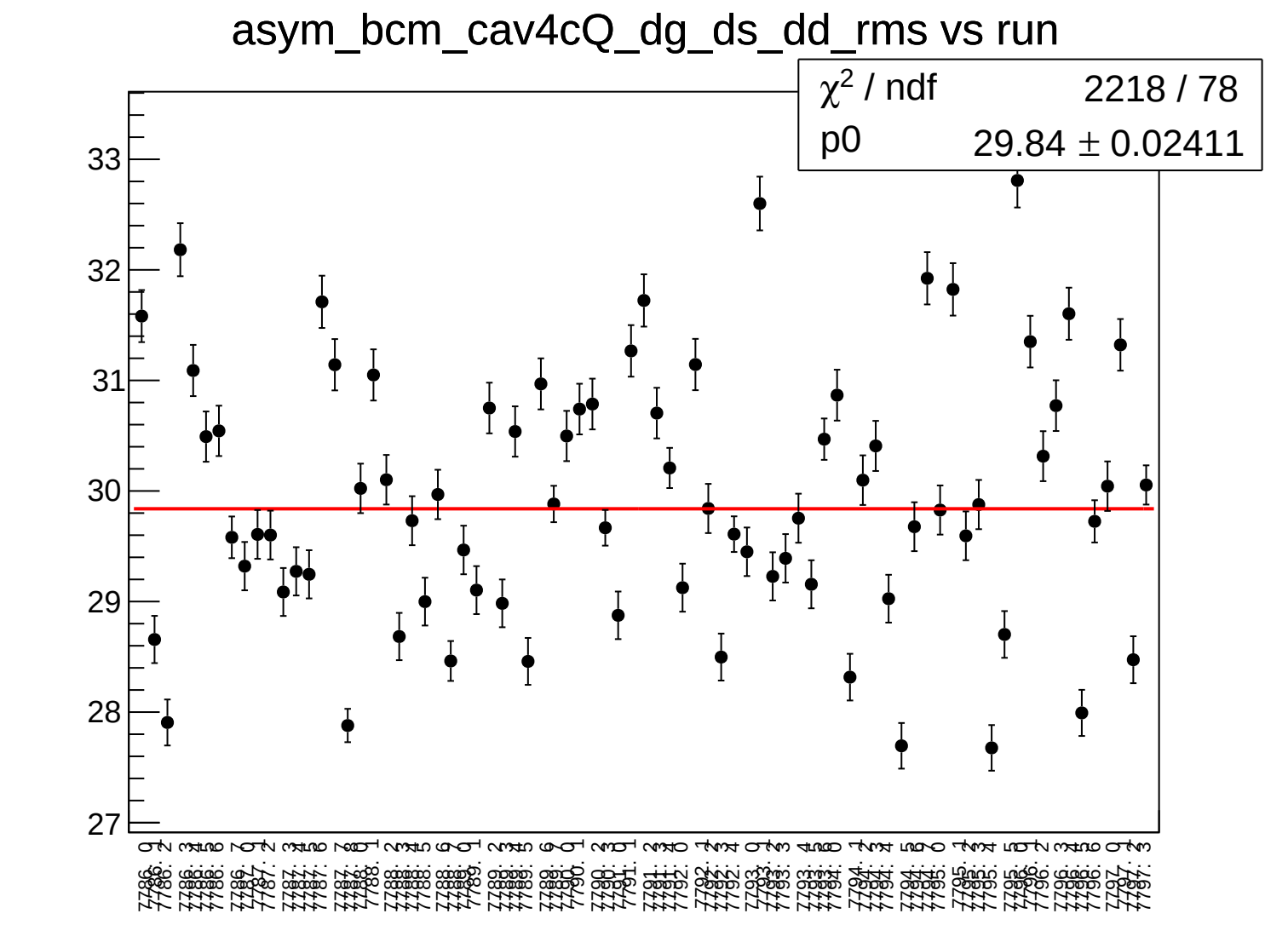

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 19.95 / 78
p0 420.5 ± 405
pull
Entries 79
Mean −1286
Std Dev 0

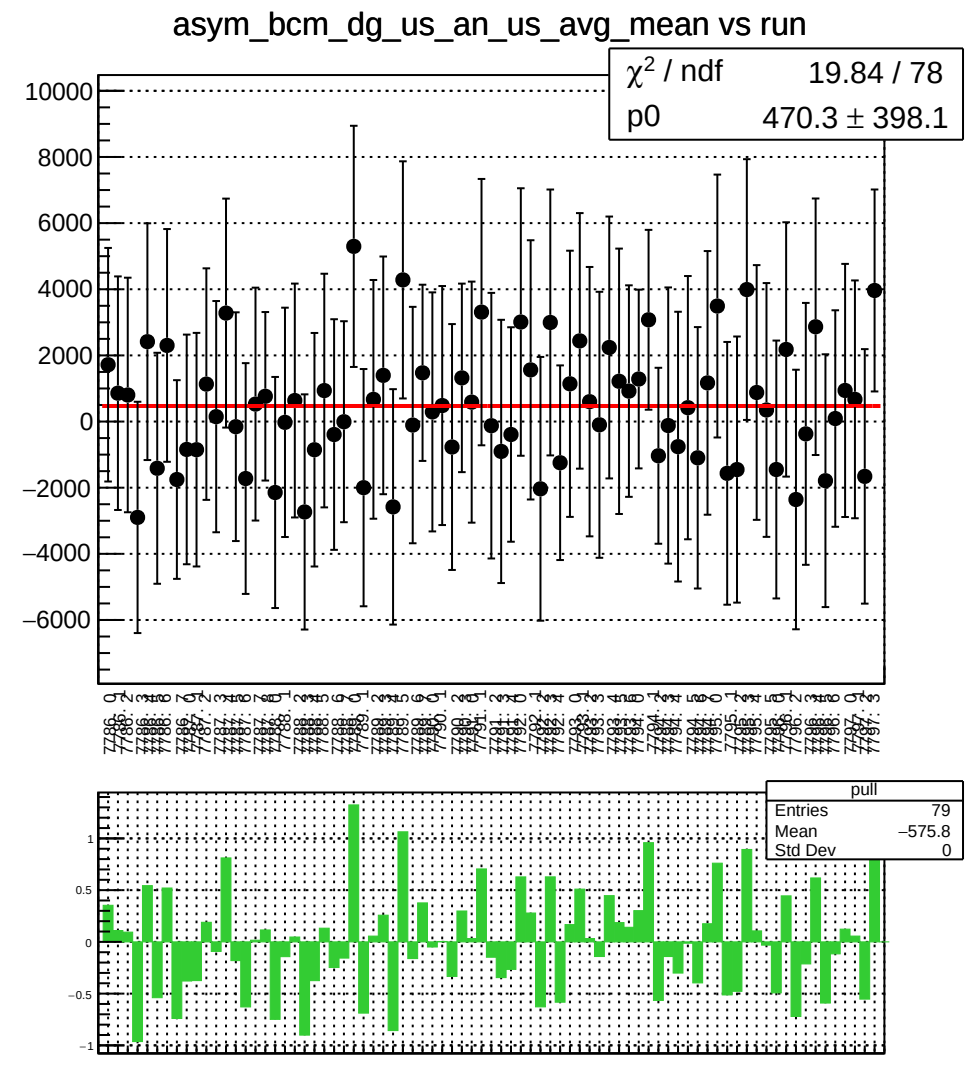

pull1D
Entries 79
Mean −0.001038
Std Dev 0.5026

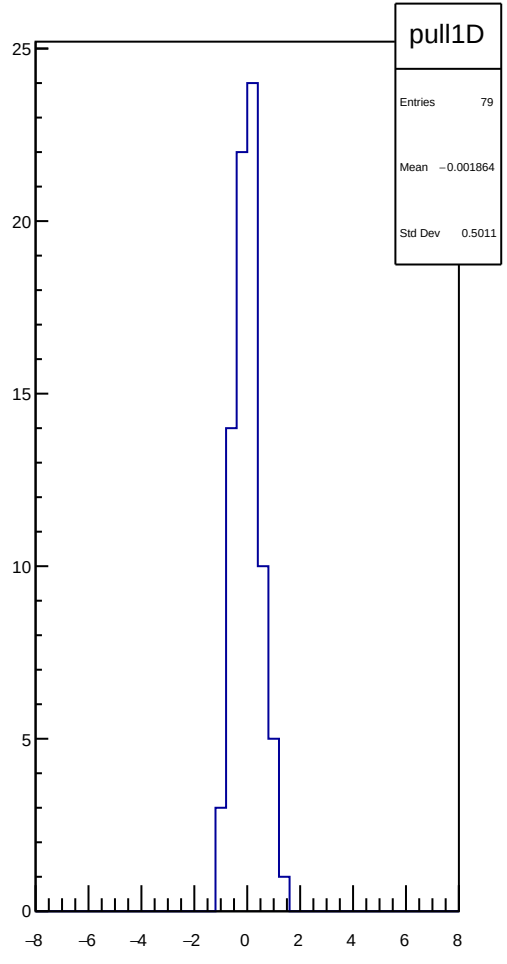

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1.182e+04 / 78
p0 353.3 ± 0.2864
400
380
360
340
320
300
280
260

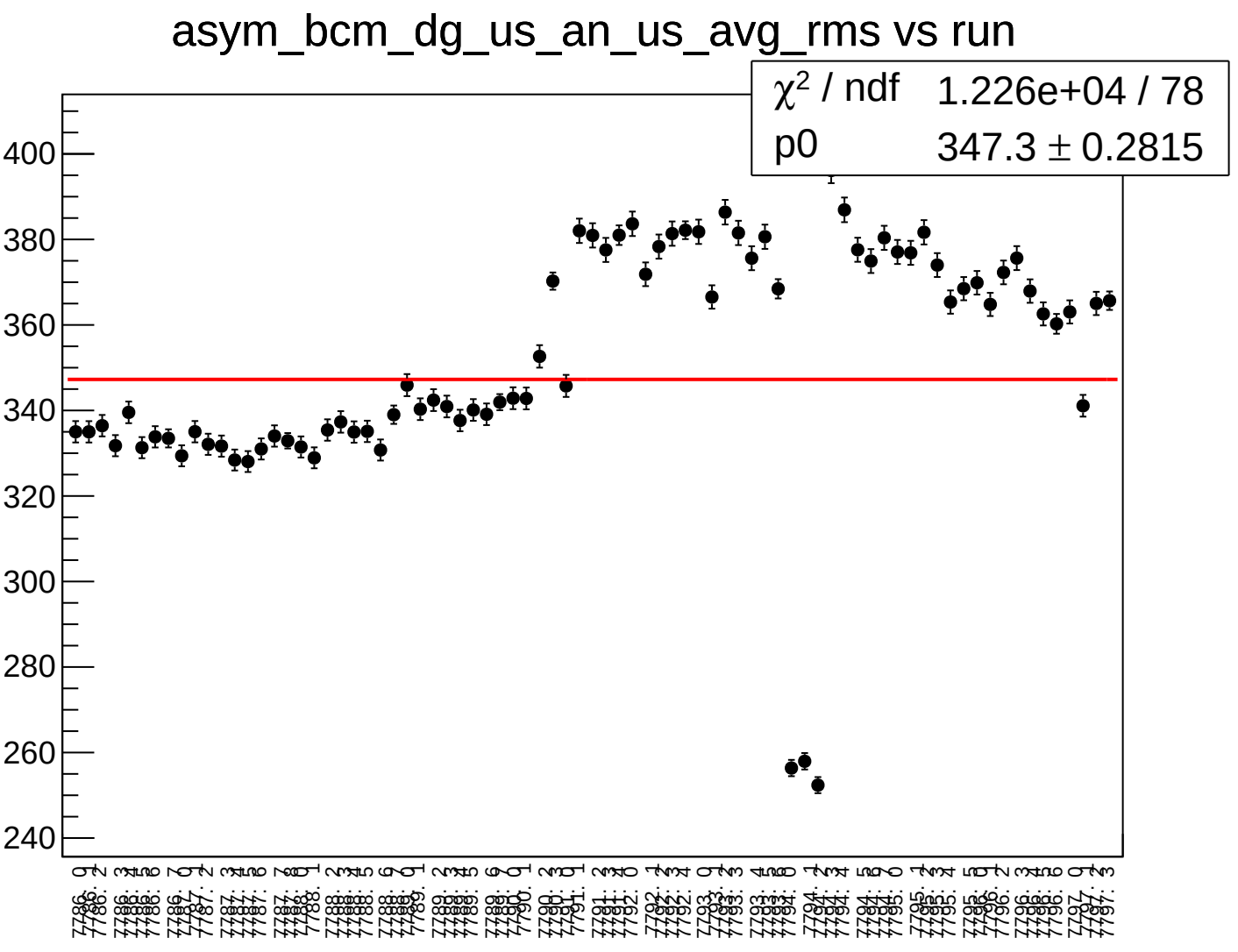

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 74.43 / 78
p0 9.703 ± 34.1
1000
500
0
−500
−1000
pull
Entries 79
Mean 410.4
Std Dev 0
2
1
0
−1
−2

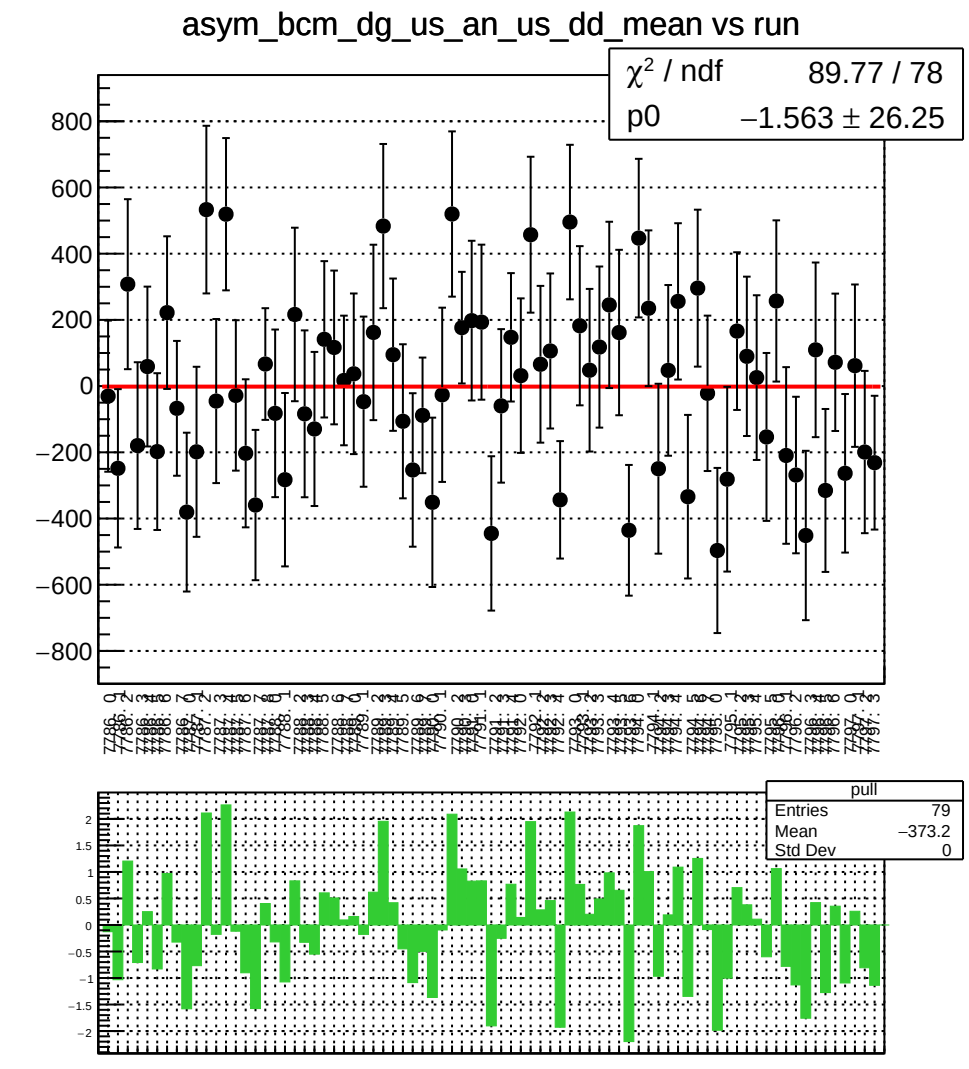

pull1D
Entries 79
Mean 0.01177
Std Dev 0.9705
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

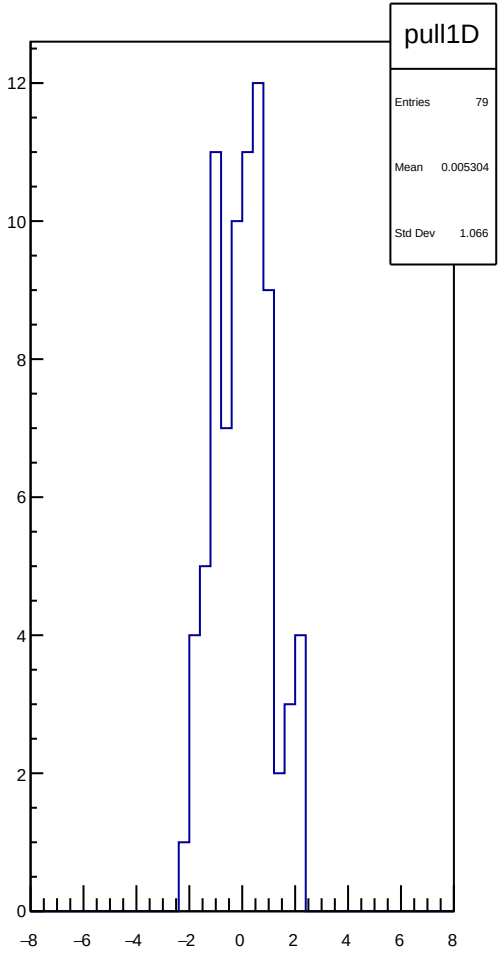

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2218 / 78
p0 29.84 ± 0.02411
33
32
31
30
29
28
27

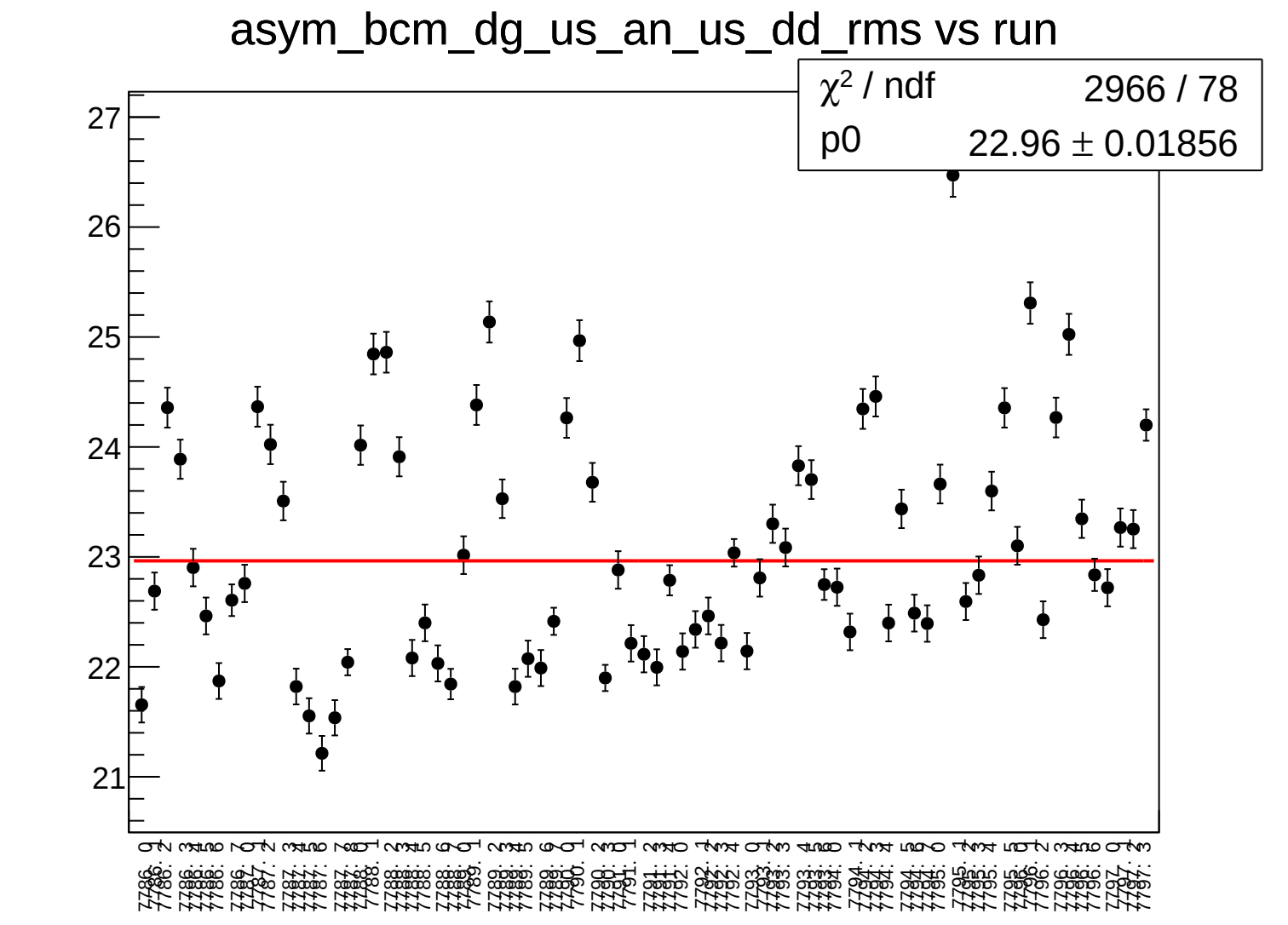

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 19.84 / 78
p0 470.3 ± 398.1
pull
Entries 79
Mean −575.8
Std Dev 0

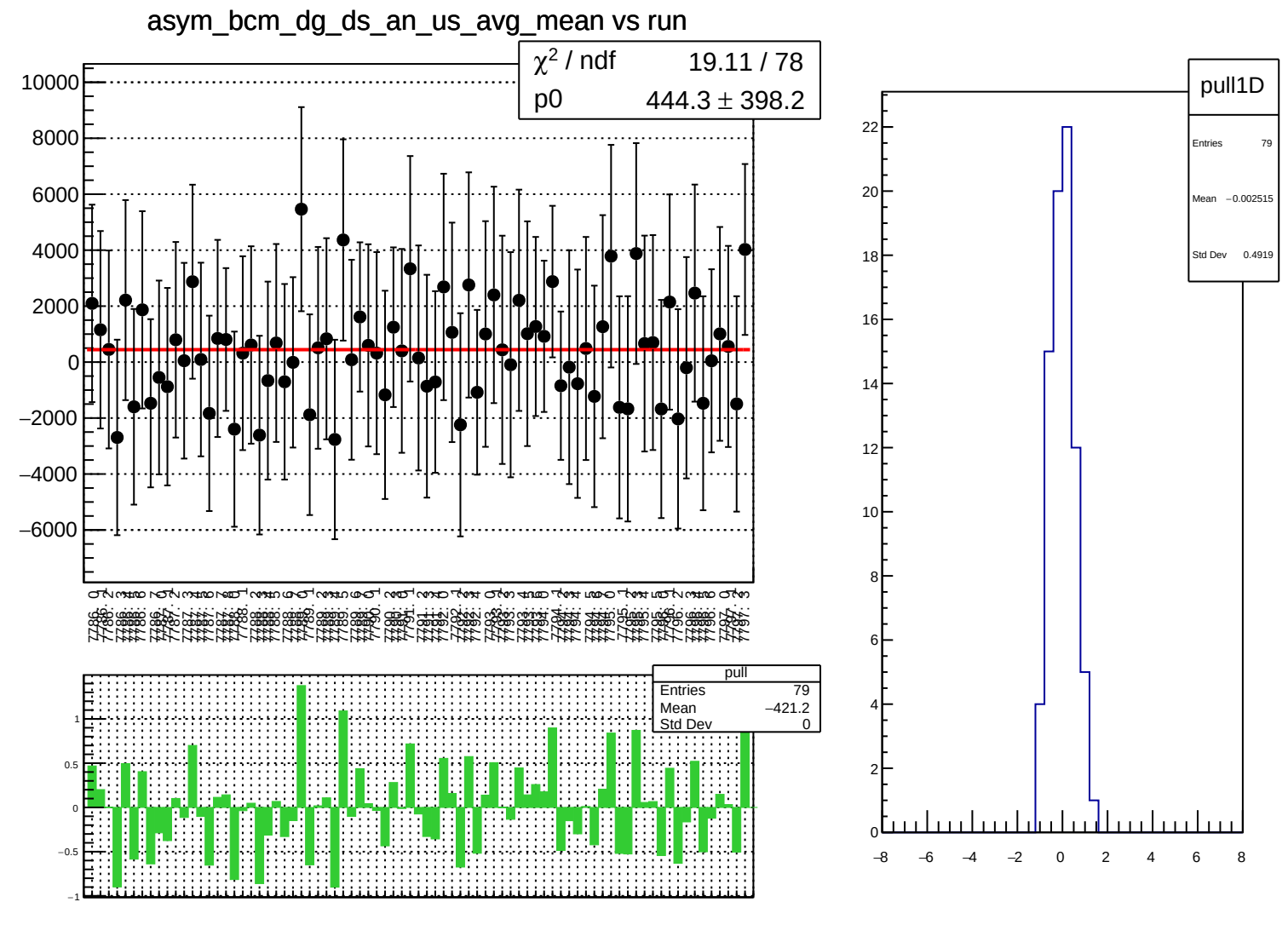

pull1D
Entries 79
Mean −0.001864
Std Dev 0.5011

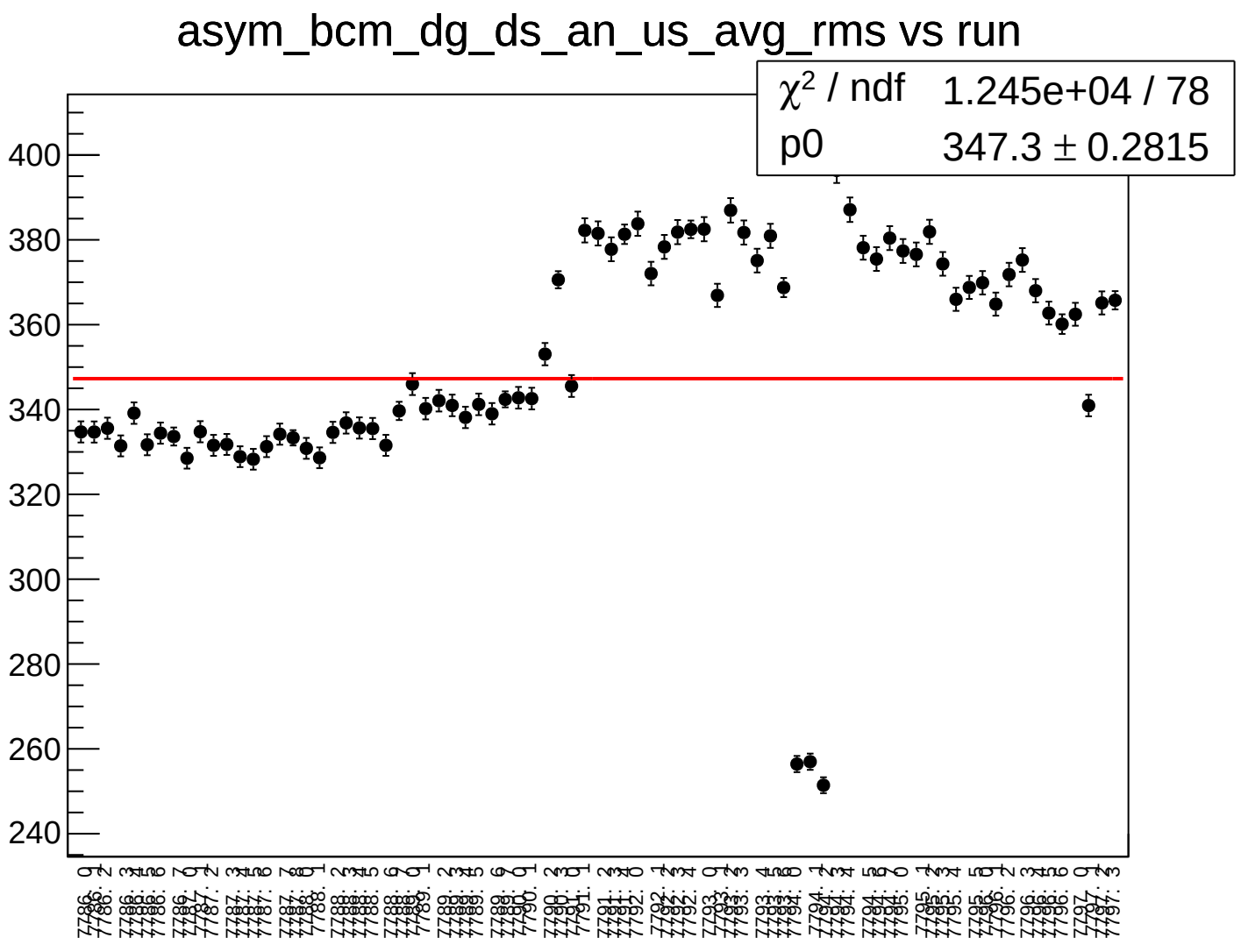

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.226e+04 / 78
p0 347.3 ± 0.2815
400
380
360
340
320
300
280
260
240

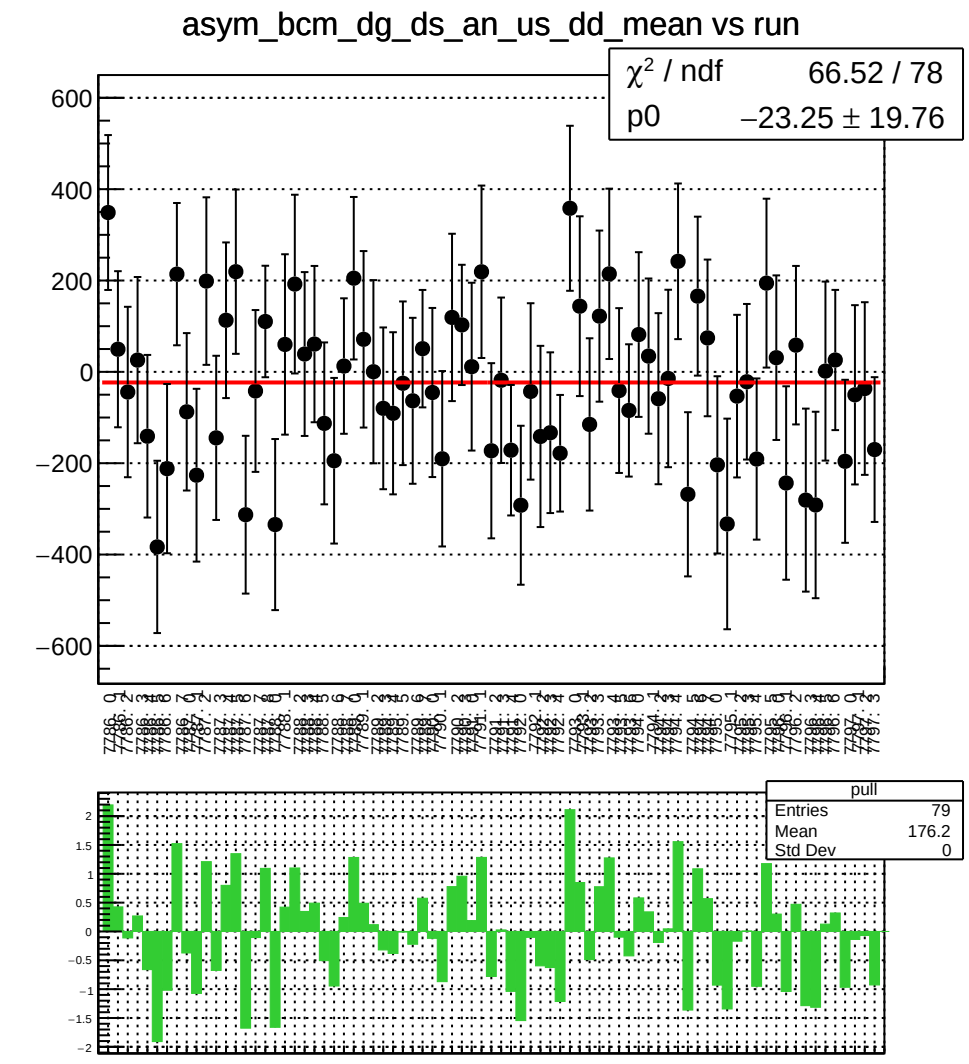

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 89.77 / 78
p0 −1.563 ± 26.25
pull
Entries 79
Mean −373.2
Std Dev 0

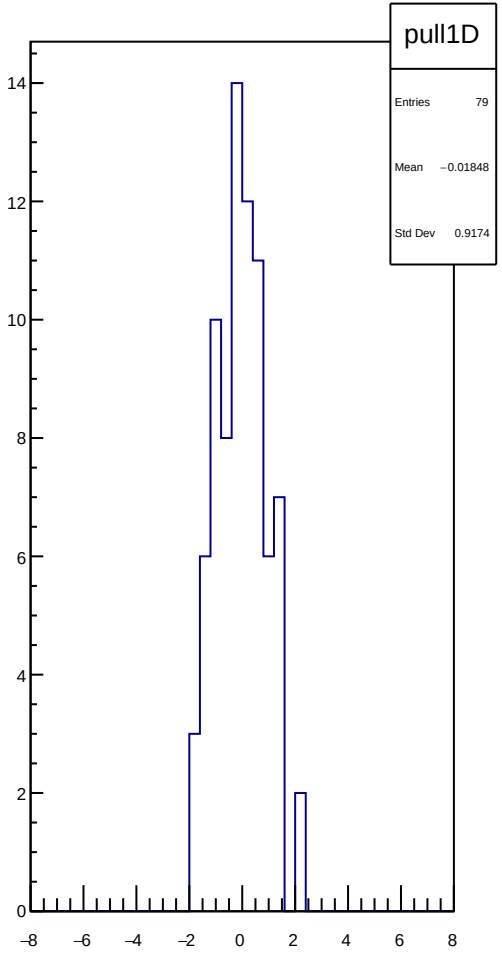

pull1D
Entries 79
Mean 0.005304
Std Dev 1.066

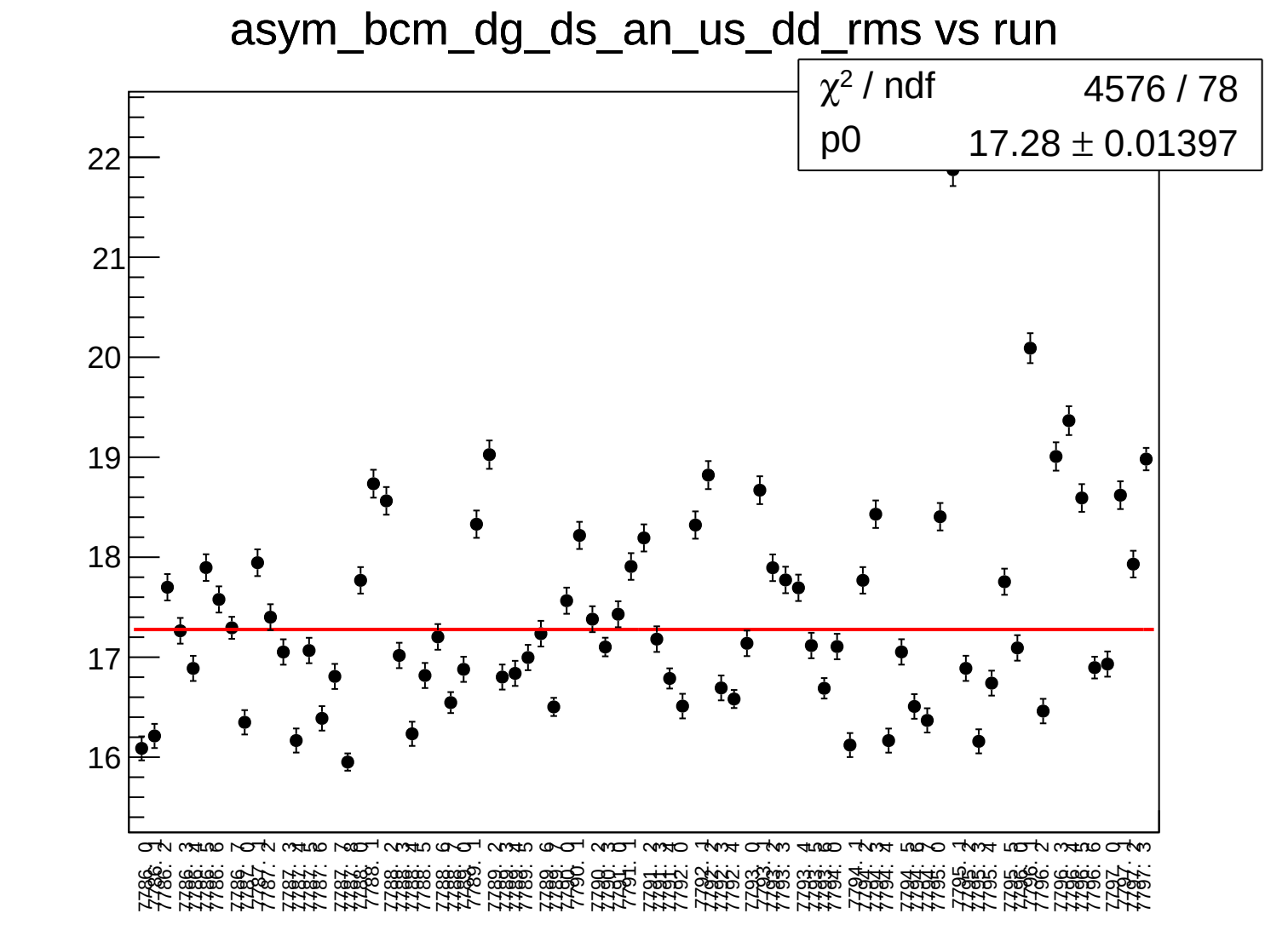

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 2966 / 78
p0 22.96 ± 0.01856
27
26
25
24
23
22
21

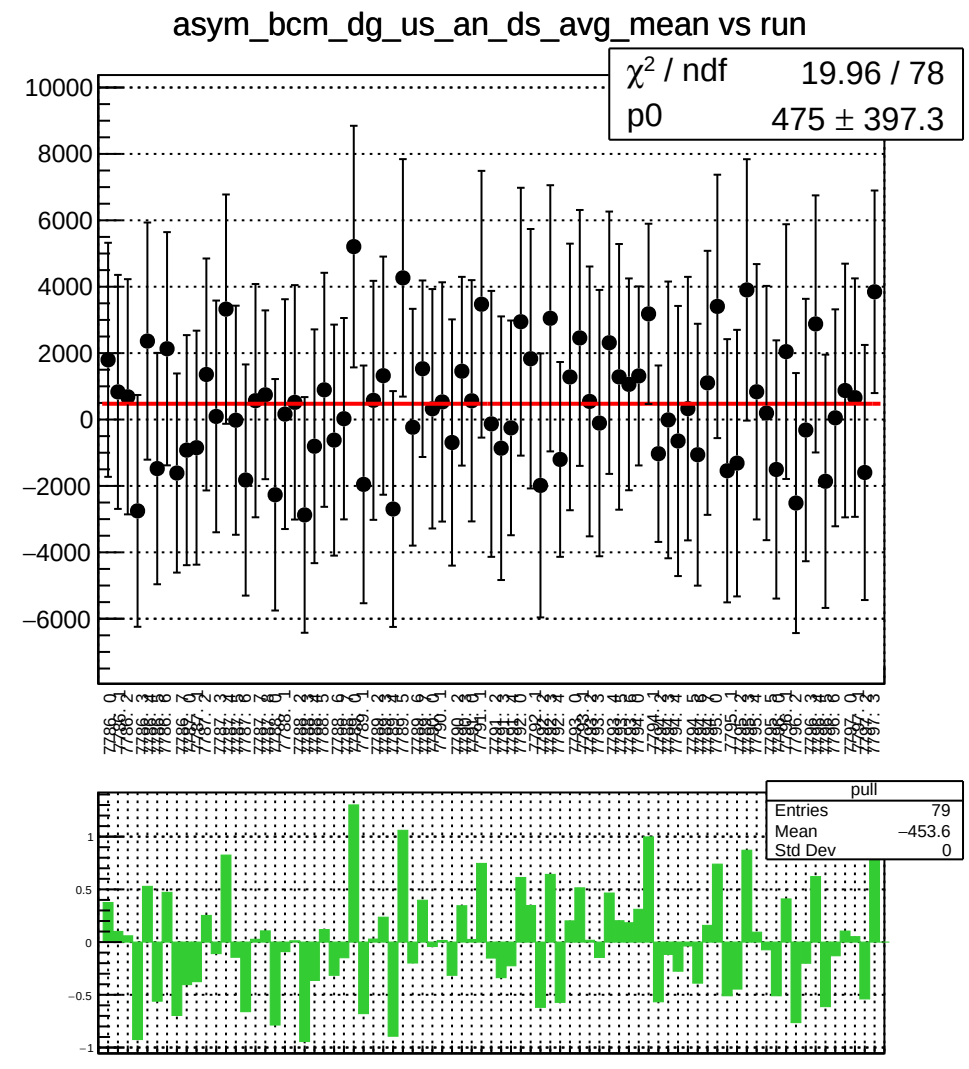

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 19.11 / 78
p0 444.3 ± 398.2
pull
Entries 79
Mean −421.2
Std Dev 0
pull1D
Entries 79
Mean −0.002515
Std Dev 0.4919

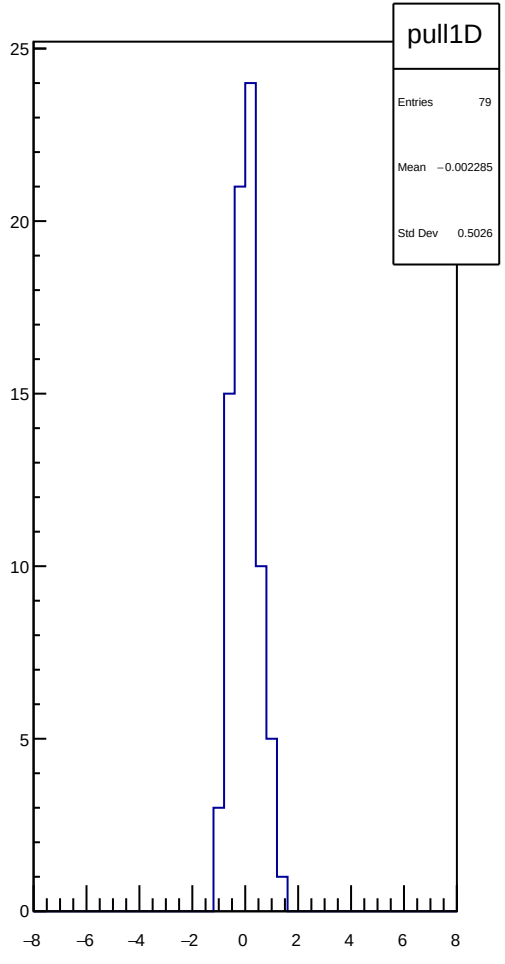

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1.245e+04 / 78
p0 347.3 ± 0.2815
400
380
360
340
320
300
280
260
240

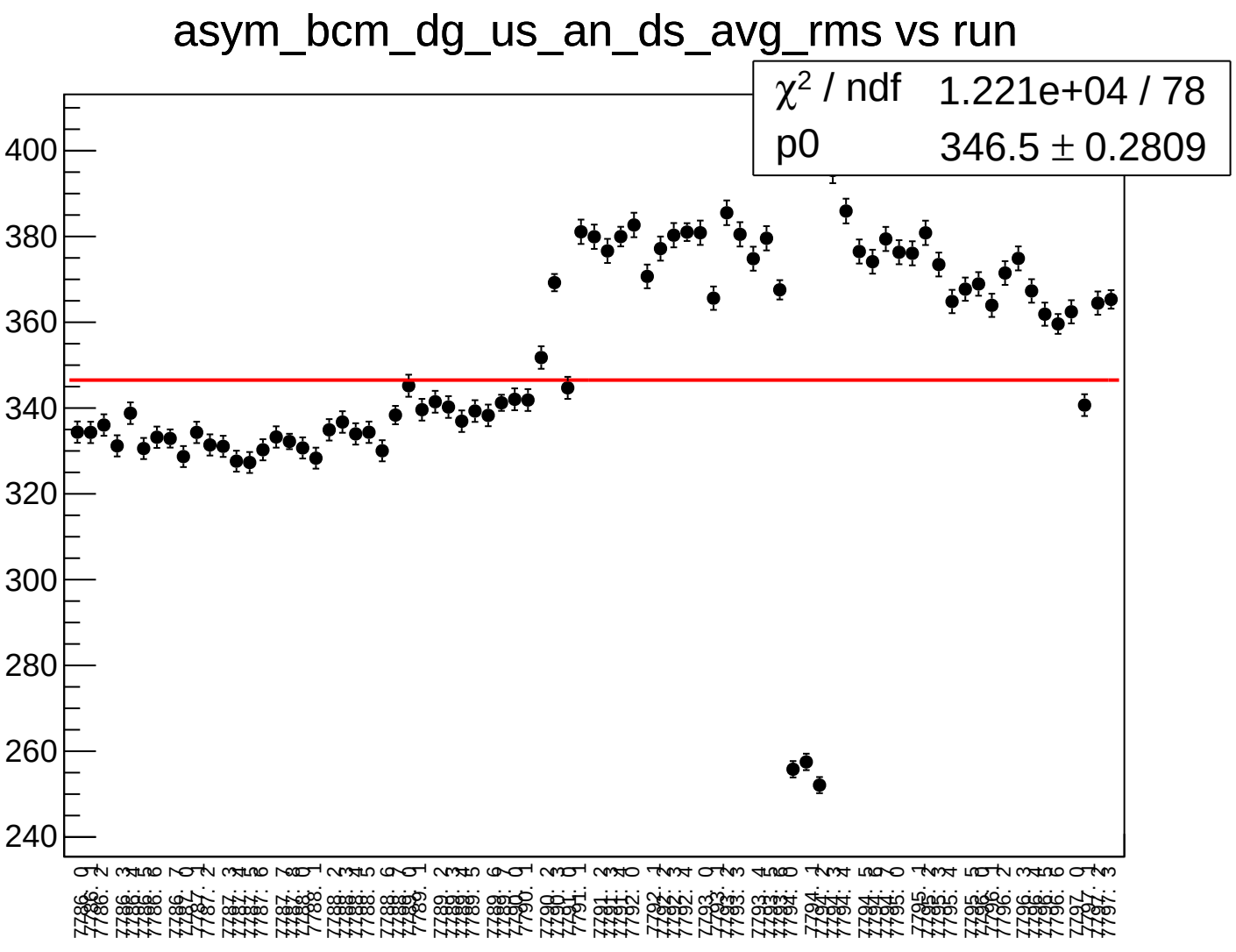

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 66.52 / 78
p0 −23.25 ± 19.76
pull
Entries 79
Mean 176.2
Std Dev 0

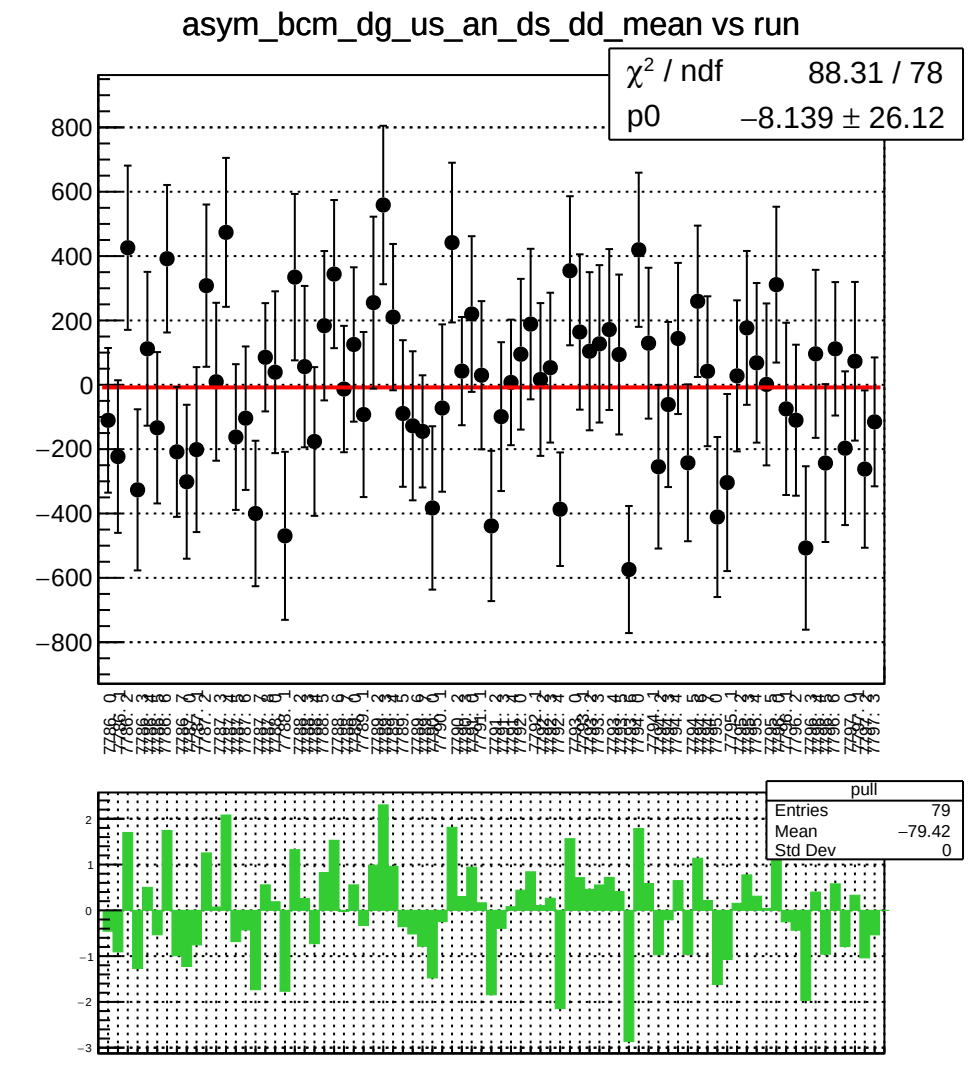

pull1D
Entries 79
Mean −0.01848
Std Dev 0.9174

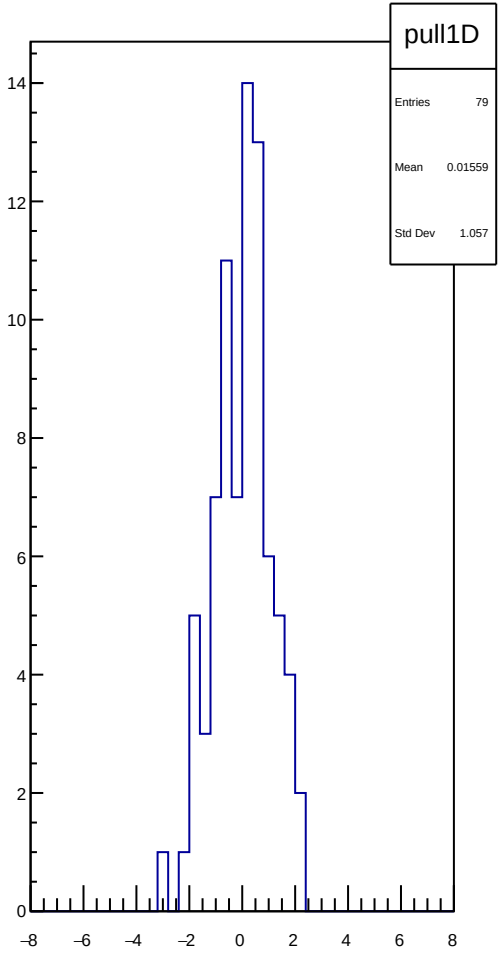

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 4576 / 78
p0 17.28 ± 0.01397
22
21
20
19
18
17
16

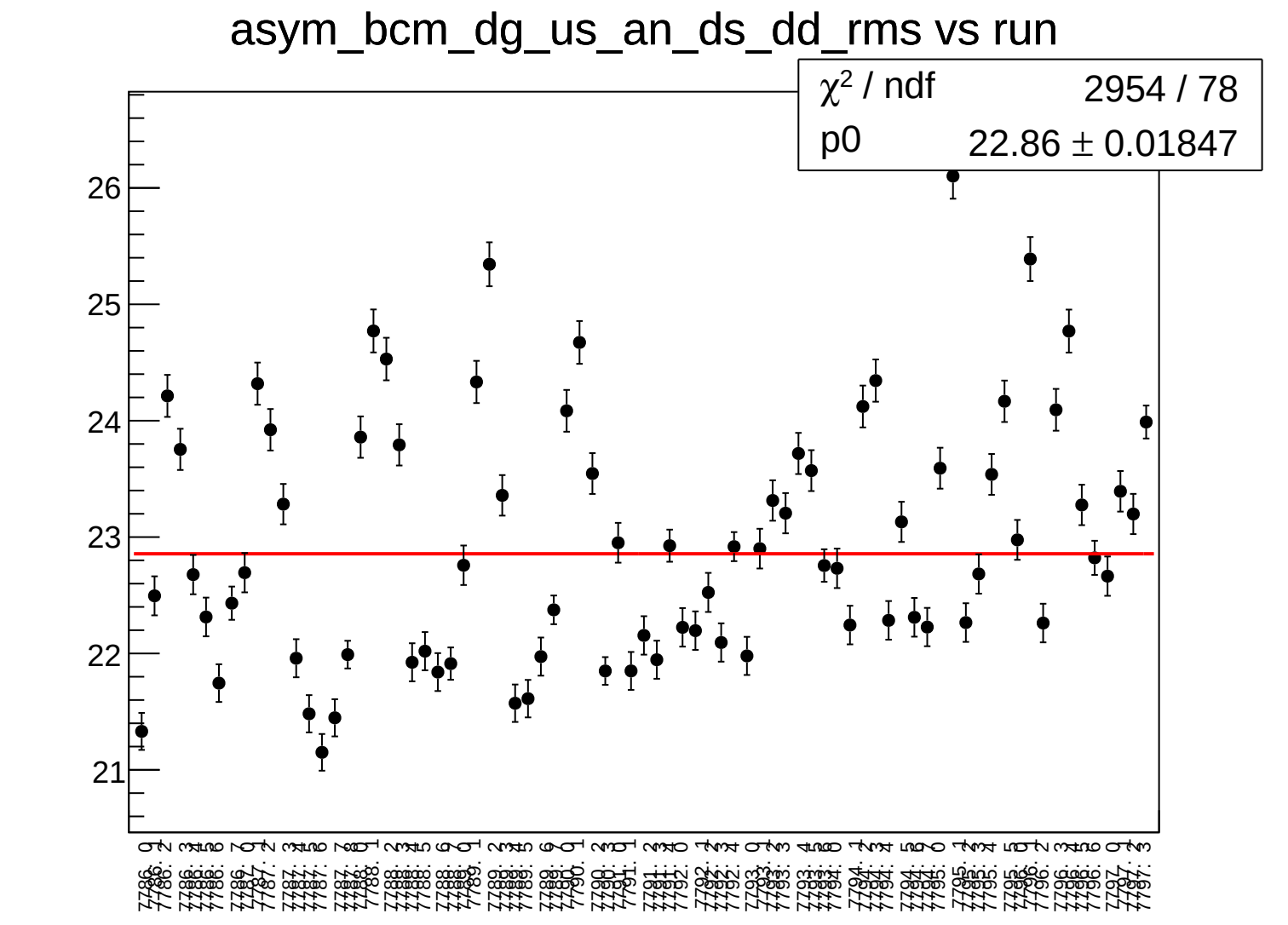

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 19.96 / 78
p0 475 ± 397.3
pull
Entries 79
Mean −453.6
Std Dev 0

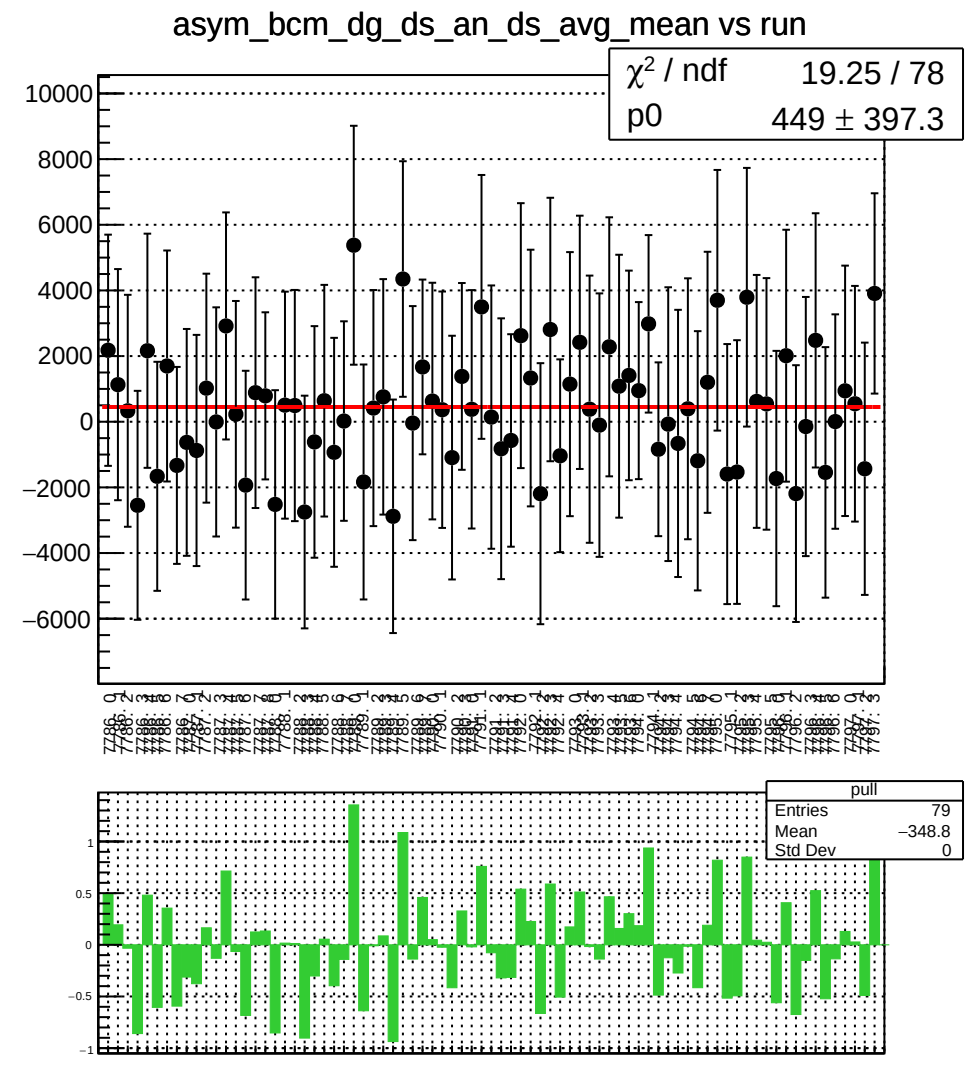

pull1D
Entries 79
Mean −0.002285
Std Dev 0.5026

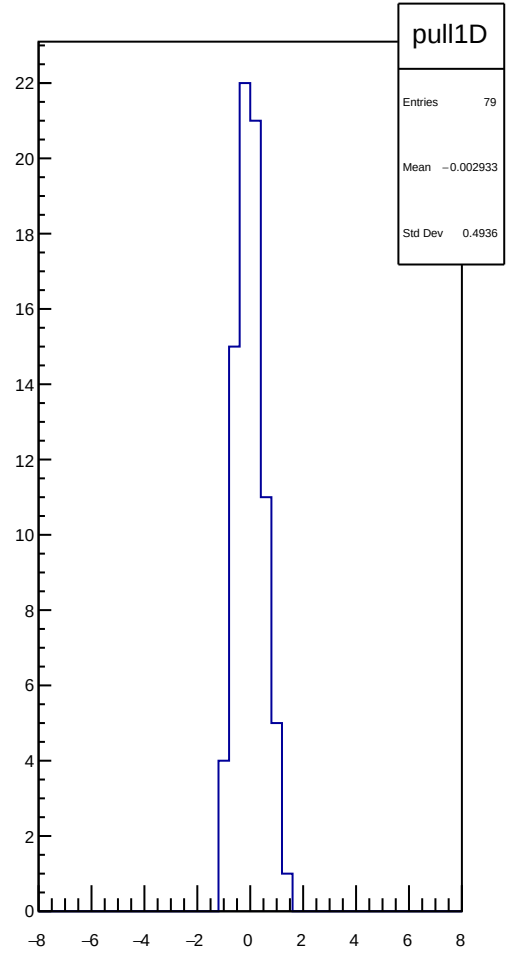

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.221e+04 / 78
p0 346.5 ± 0.2809
400
380
360
340
320
300
280
260
240

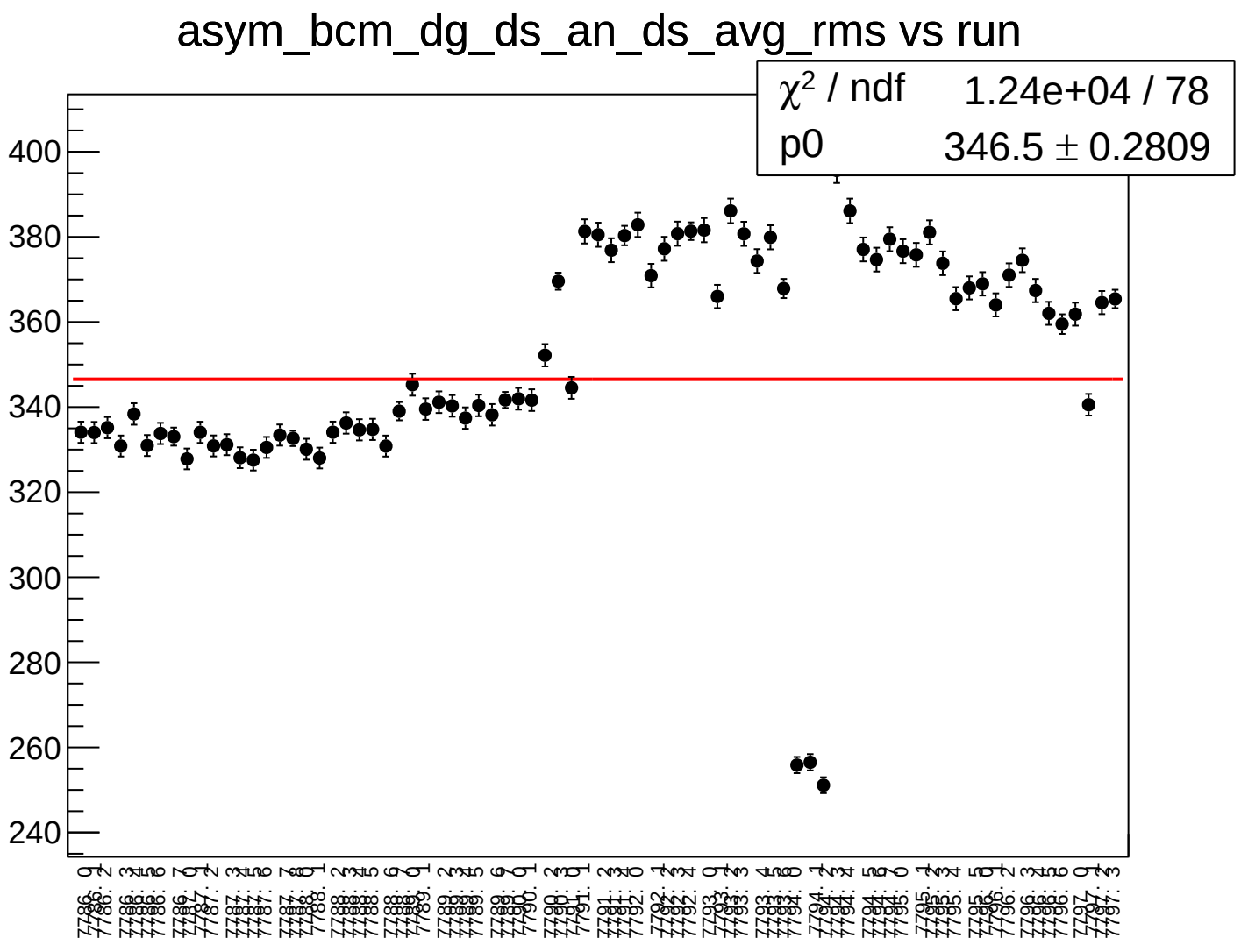

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 88.31 / 78
p0 −8.139 ± 26.12
pull
Entries 79
Mean −79.42
Std Dev 0

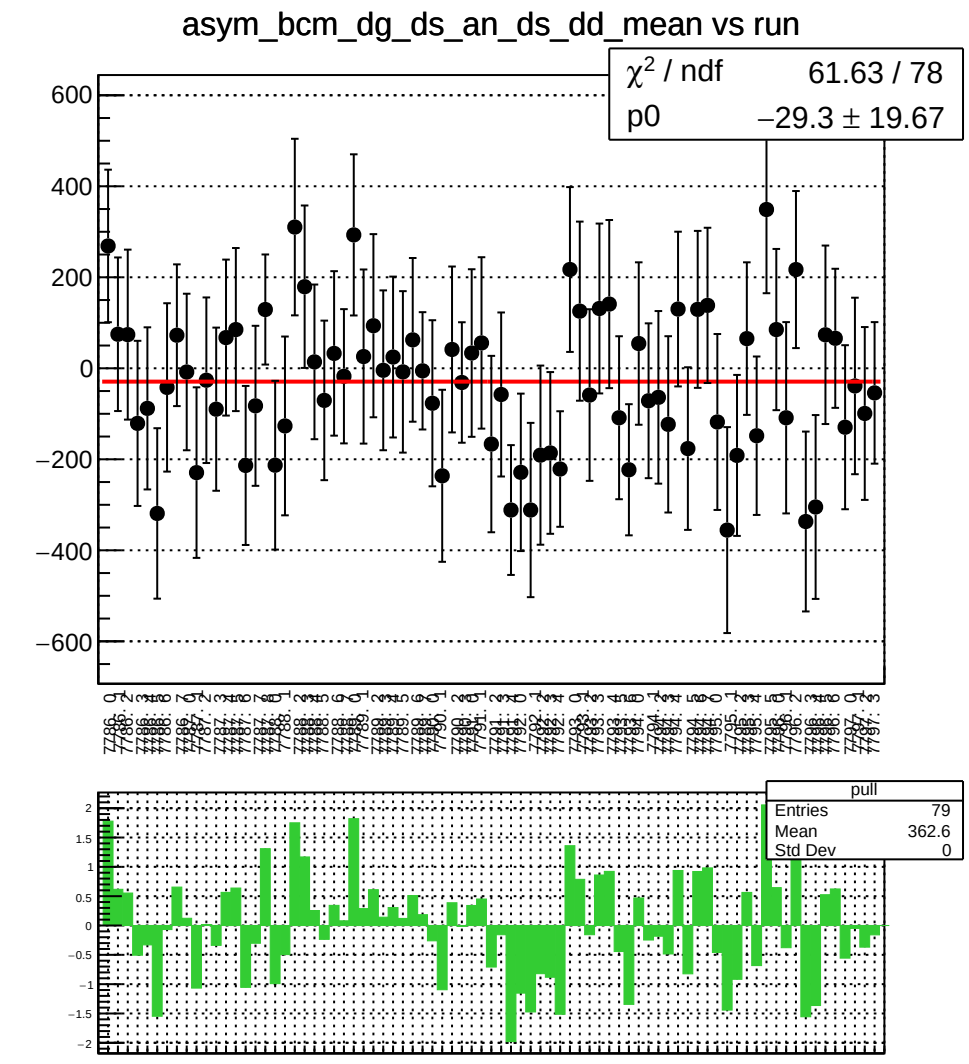

pull1D
Entries 79
Mean 0.01559
Std Dev 1.057

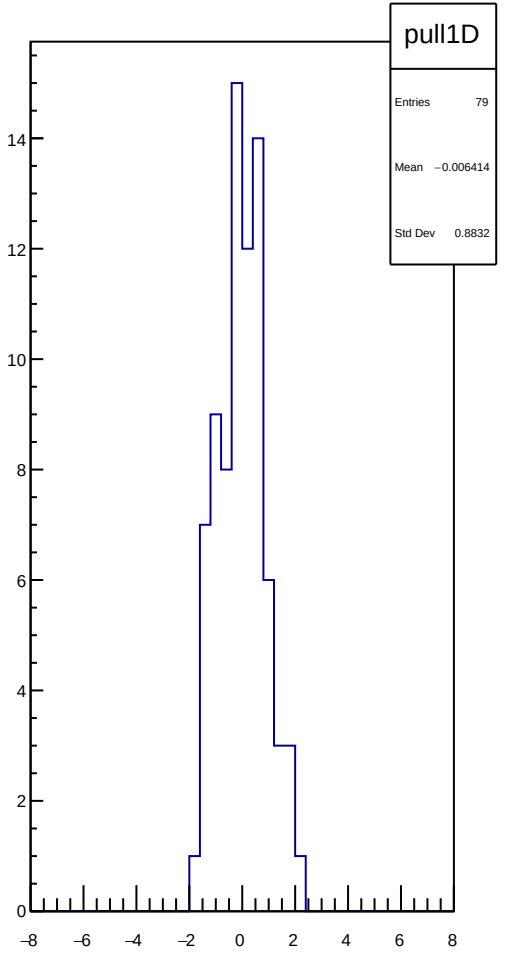

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 2954 / 78
p0 22.86 ± 0.01847
26
25
24
23
22
21

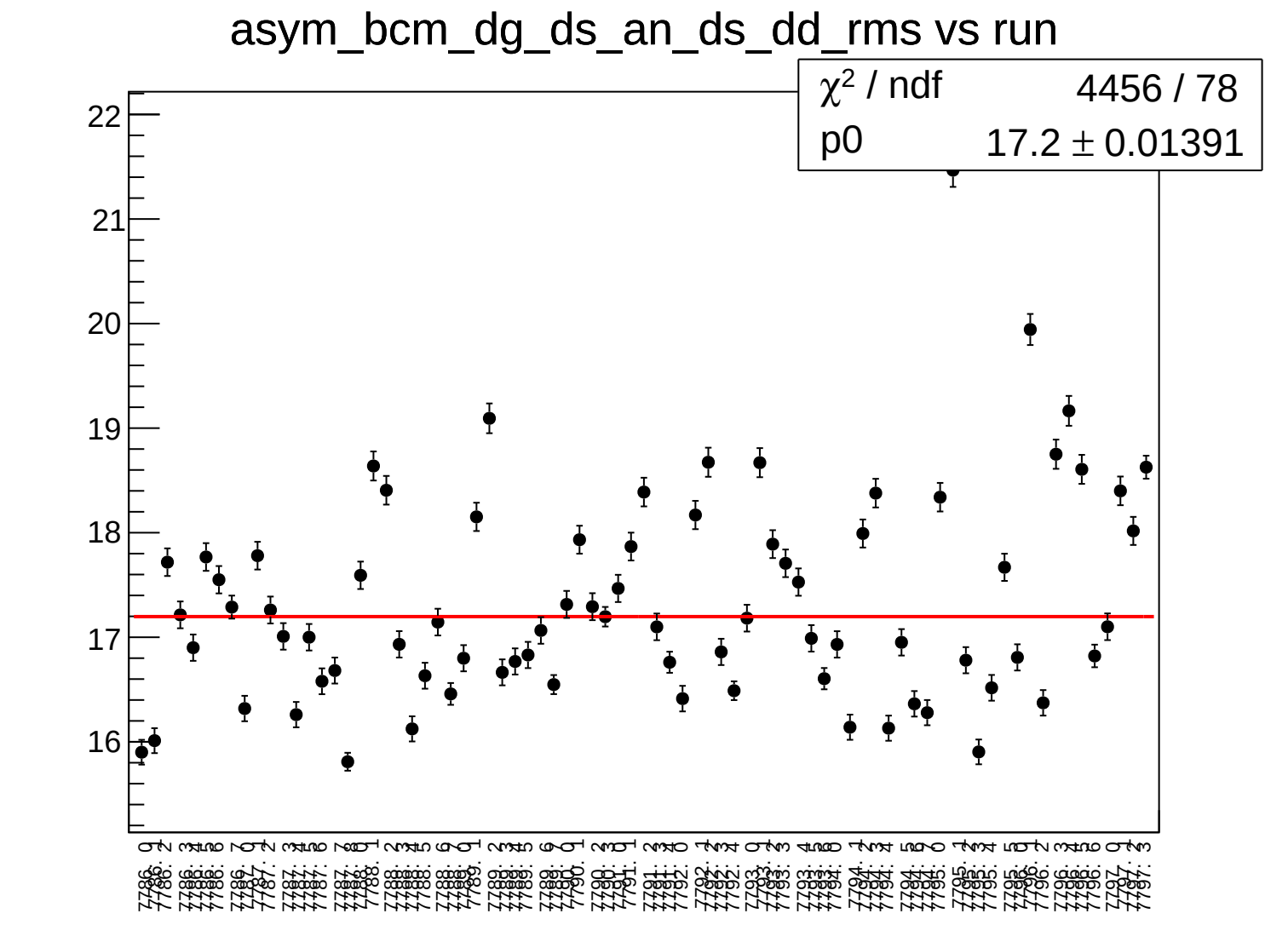

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 19.25 / 78
p0 449 ± 397.3
pull
Entries 79
Mean −348.8
Std Dev 0

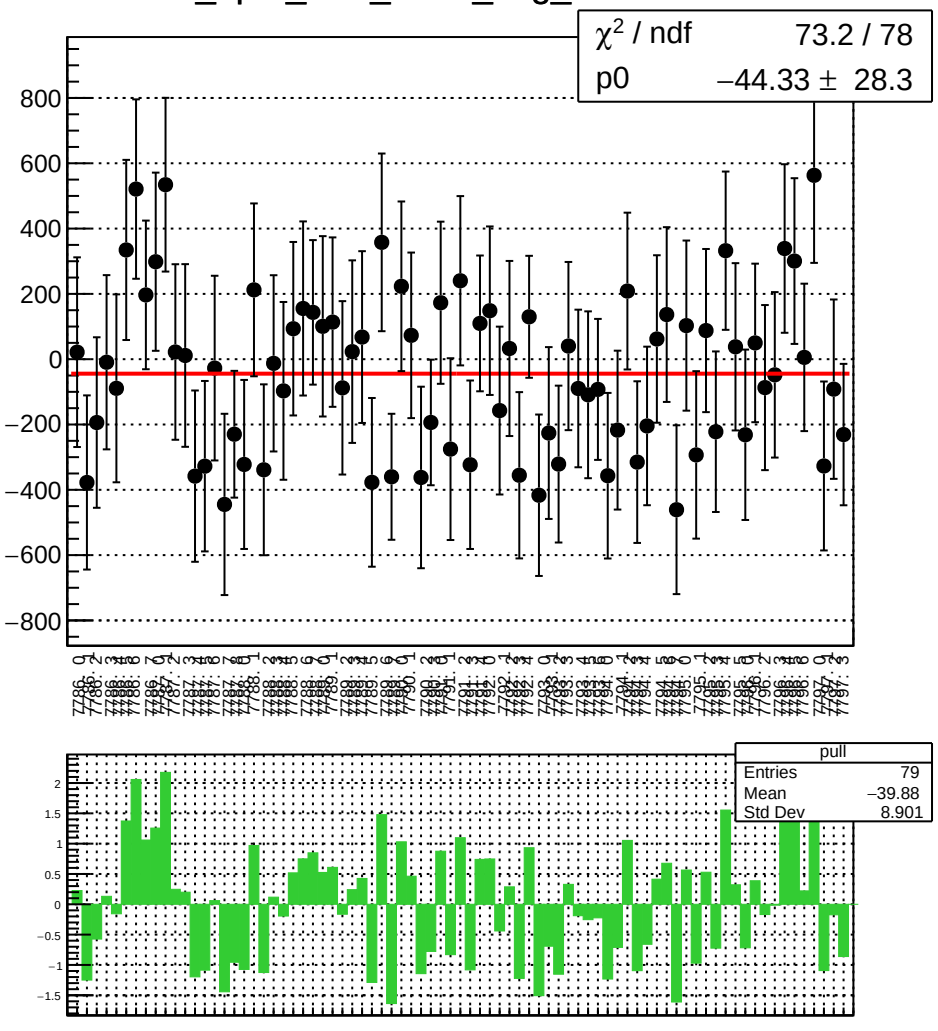

pull1D
Entries 79
Mean −0.002933
Std Dev 0.4936

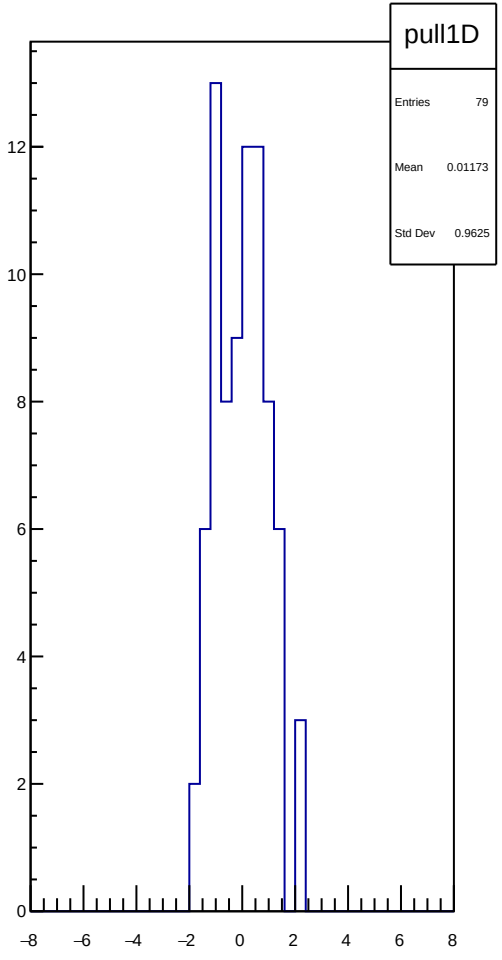

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.24e+04 / 78
p0 346.5 ± 0.2809
400
380
360
340
320
300
280
260
240

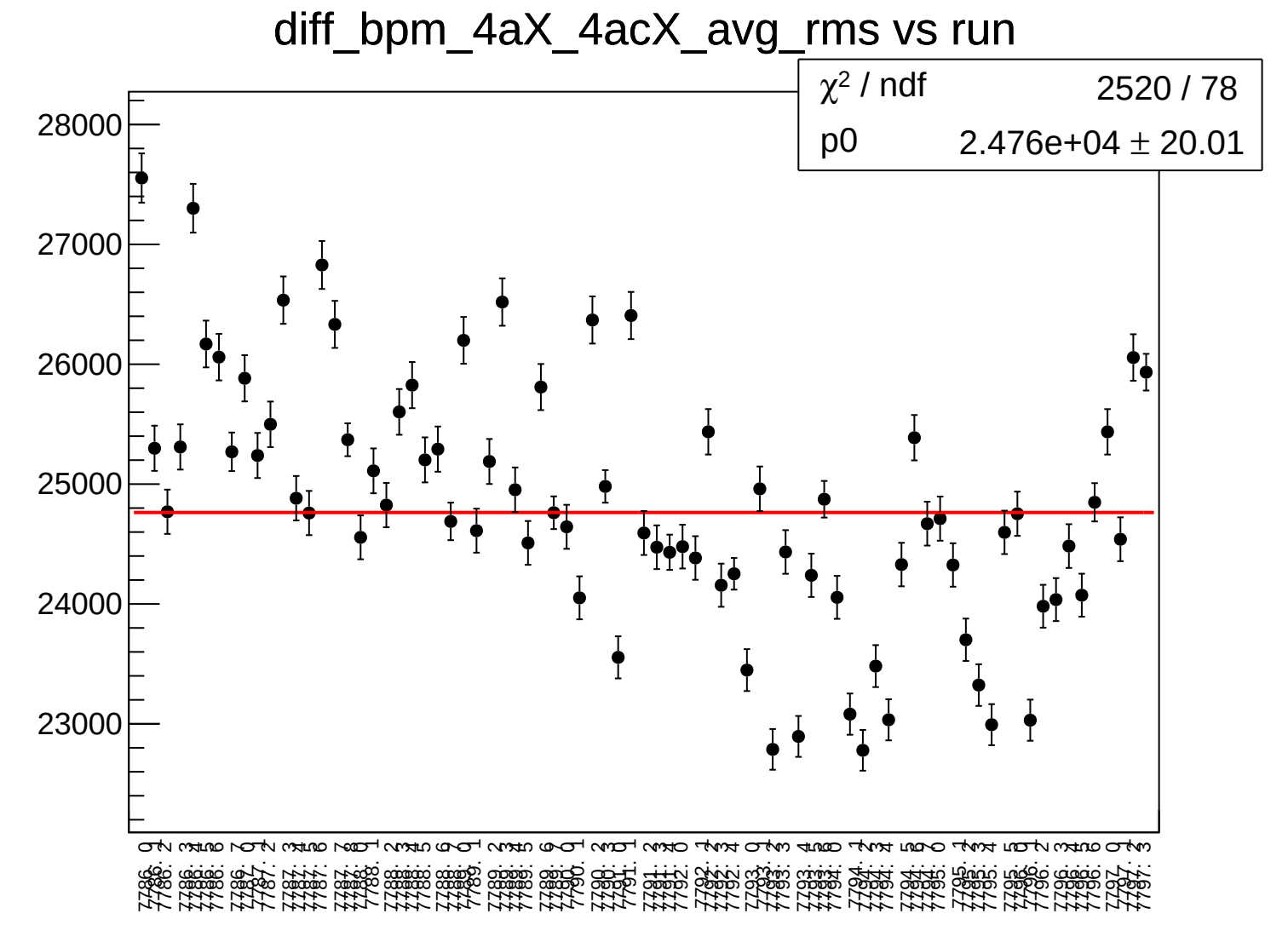

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 61.63 / 78
p0 −29.3 ± 19.67
pull
Entries 79
Mean 362.6
Std Dev 0

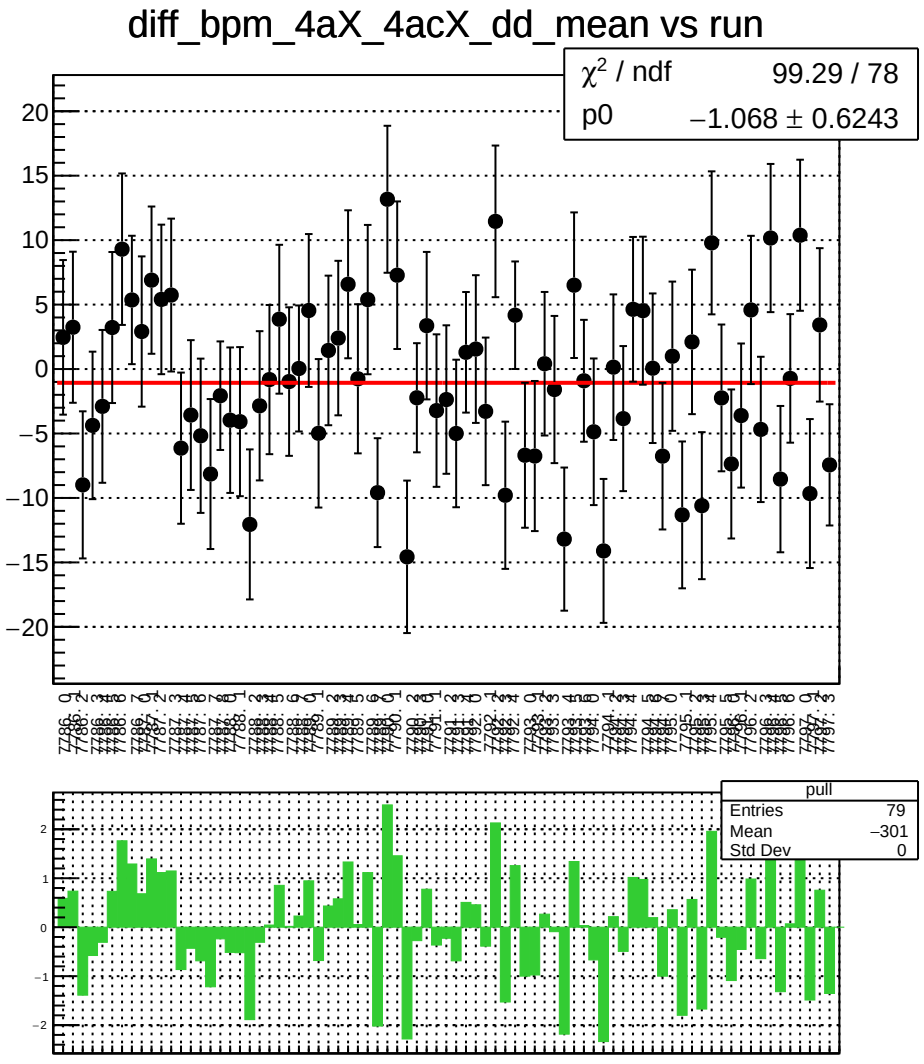

pull1D
Entries 79
Mean −0.006414
Std Dev 0.8832

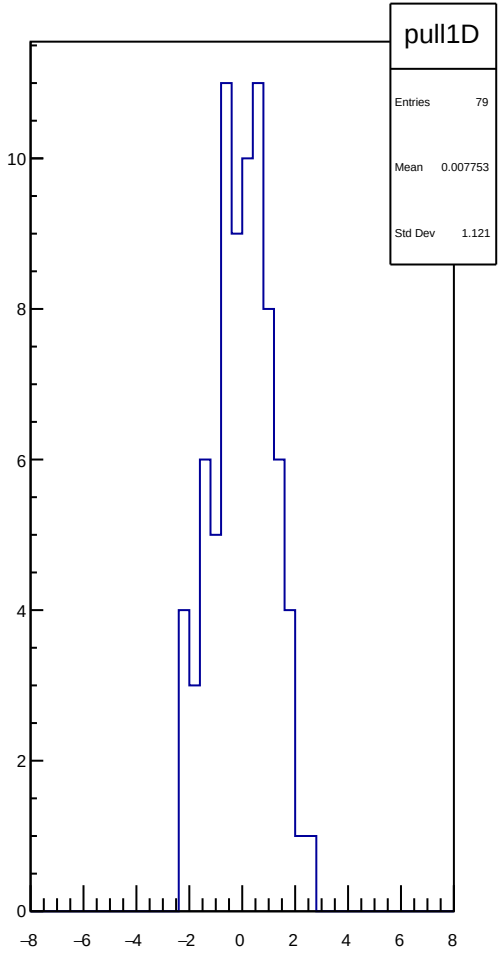

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 4456 / 78
p0 17.2 ± 0.01391
22
21
20
19
18
17
16

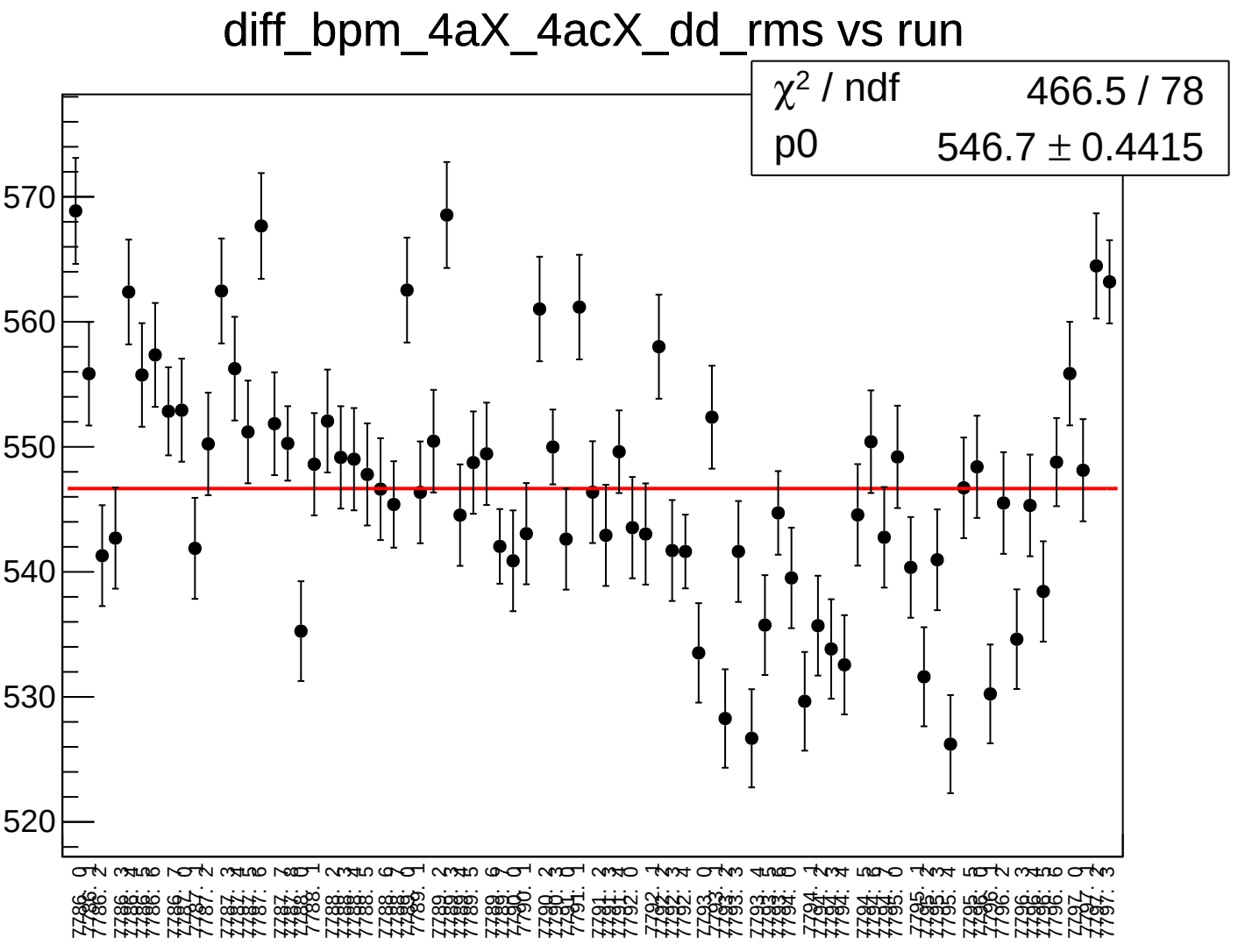

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 73.2 / 78
p0 −44.33 ± 28.3
pull
Entries 79
Mean −39.88
Std Dev 8.901

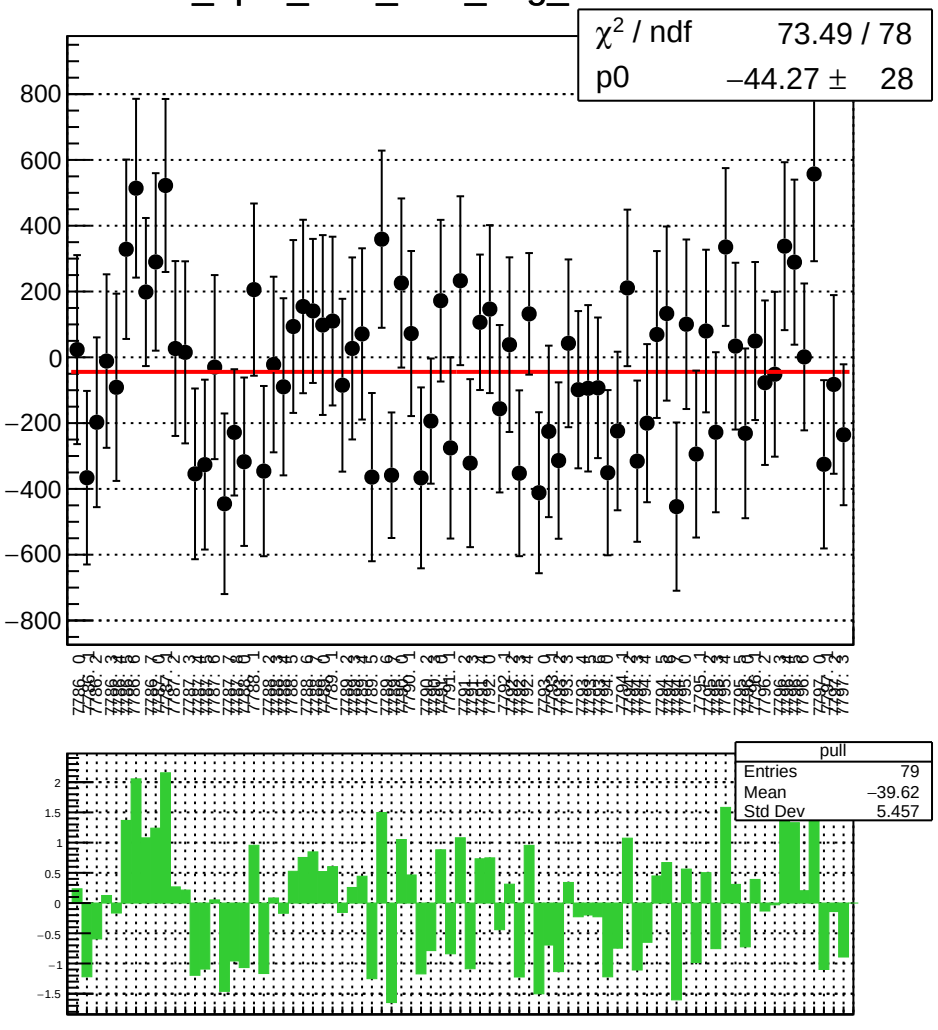

pull1D
Entries 79
Mean 0.01173
Std Dev 0.9625

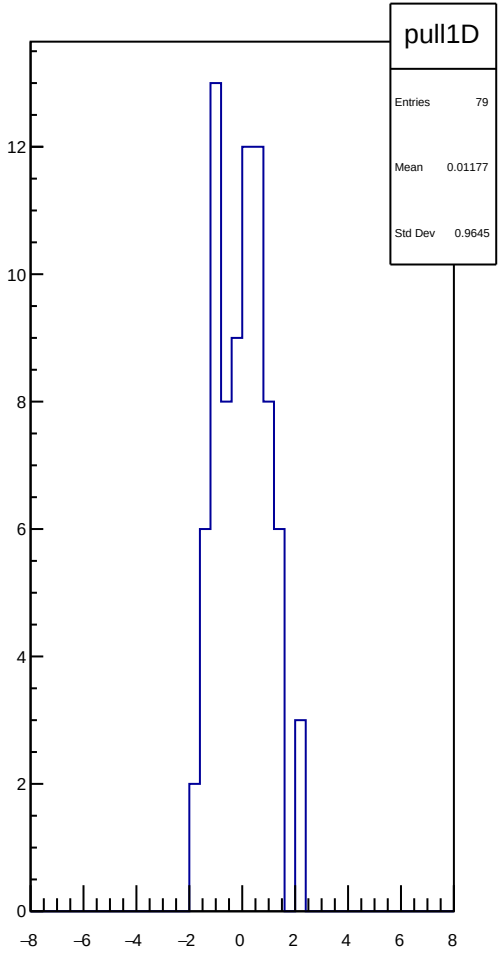

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2520 / 78
p0 2.476e+04 ± 20.01
28000
27000
26000
25000
24000
23000

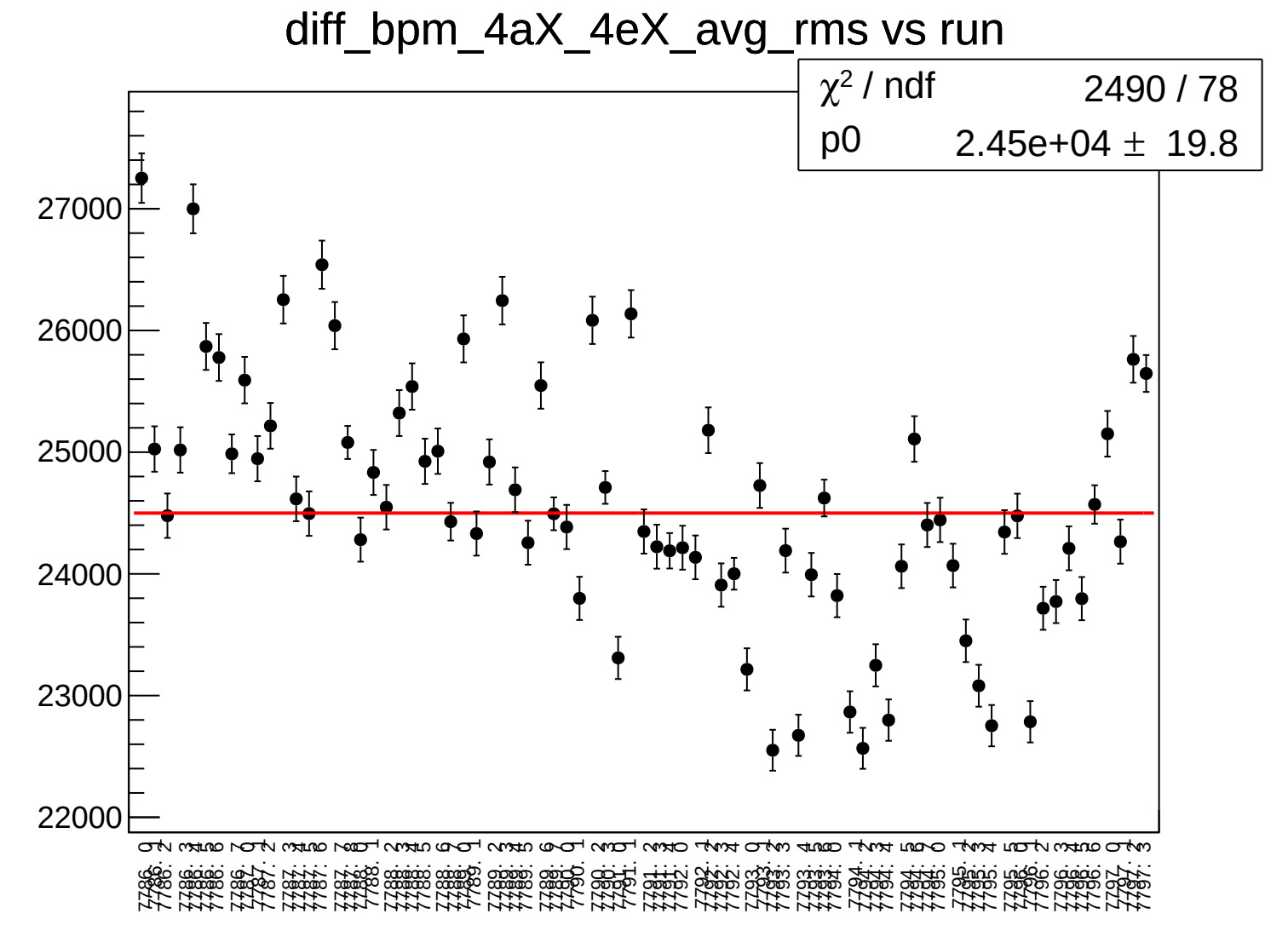

diff_bpm_4aX_4acX_dd_mean vs run
χ^2 / ndf 99.29 / 78
p0 −1.068 ± 0.6243
pull
Entries 79
Mean −301
Std Dev 0

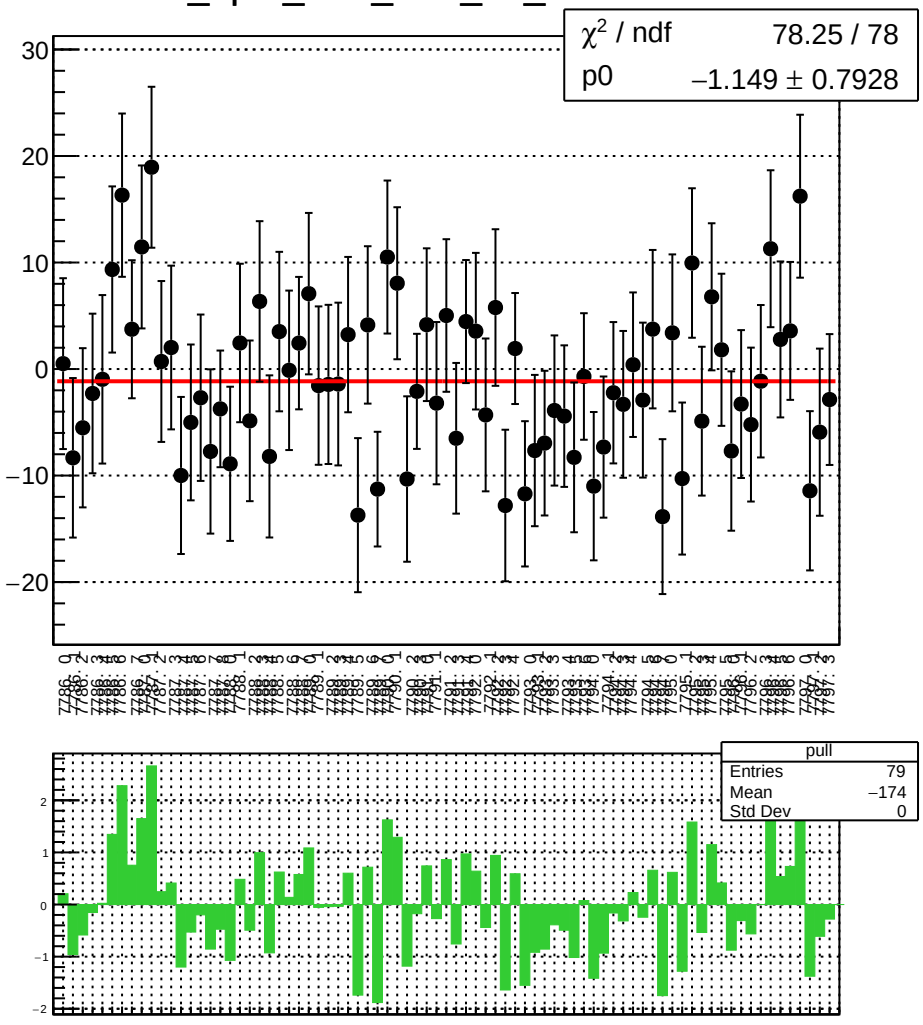

pull1D
Entries 79
Mean 0.007753
Std Dev 1.121

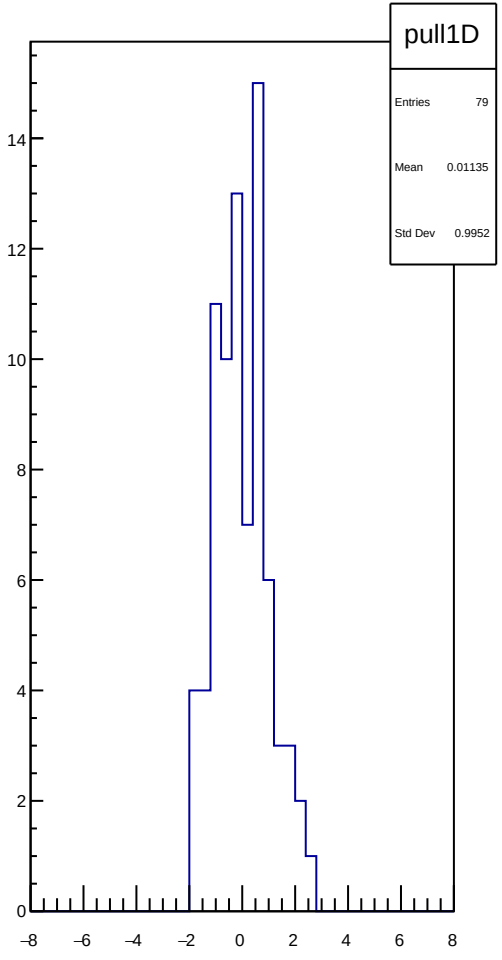

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 466.5 / 78
p0 546.7 ± 0.4415
570
560
550
540
530
520

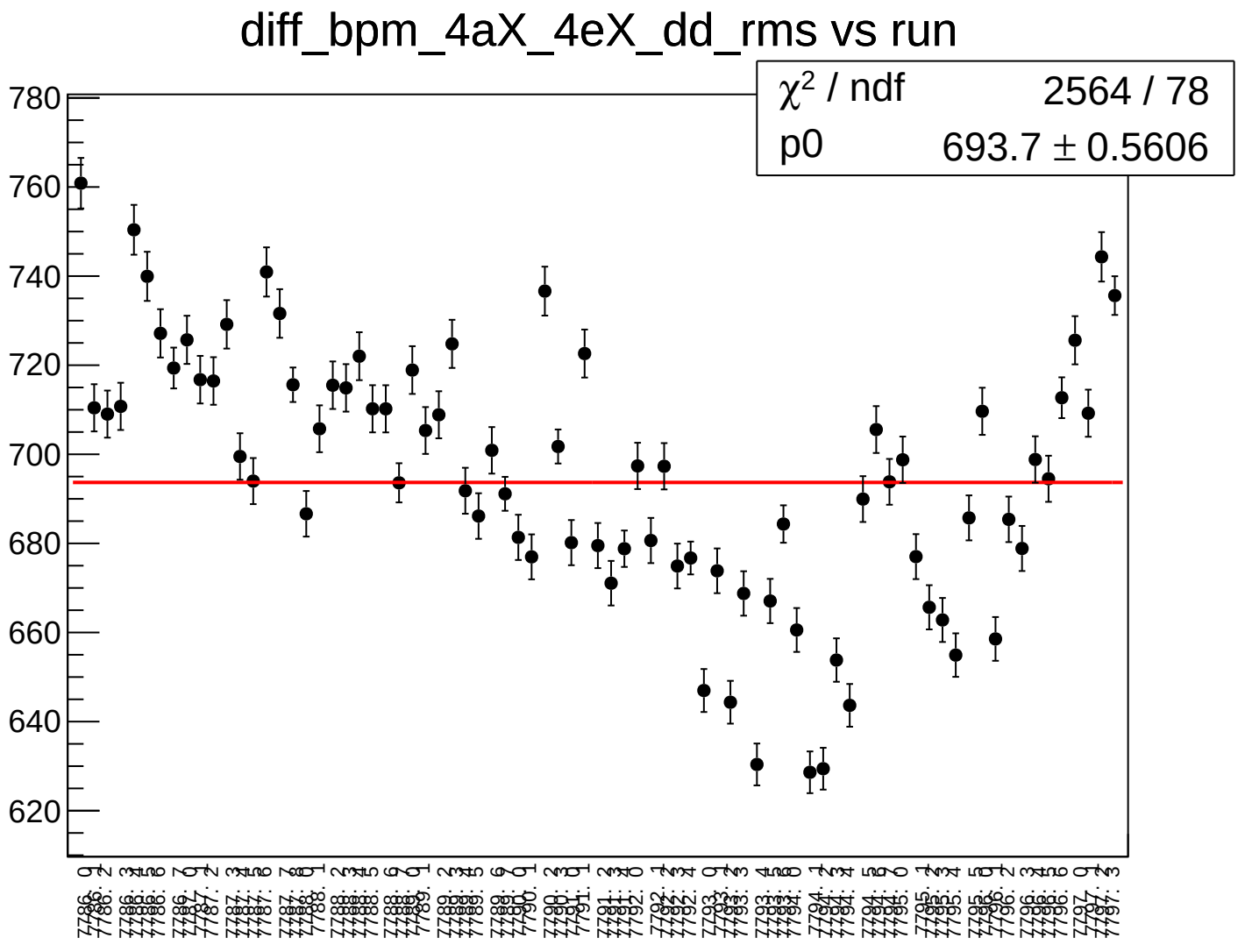

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 73.49 / 78
p0 −44.27 ± 28
pull
Entries 79
Mean −39.62
Std Dev 5.457

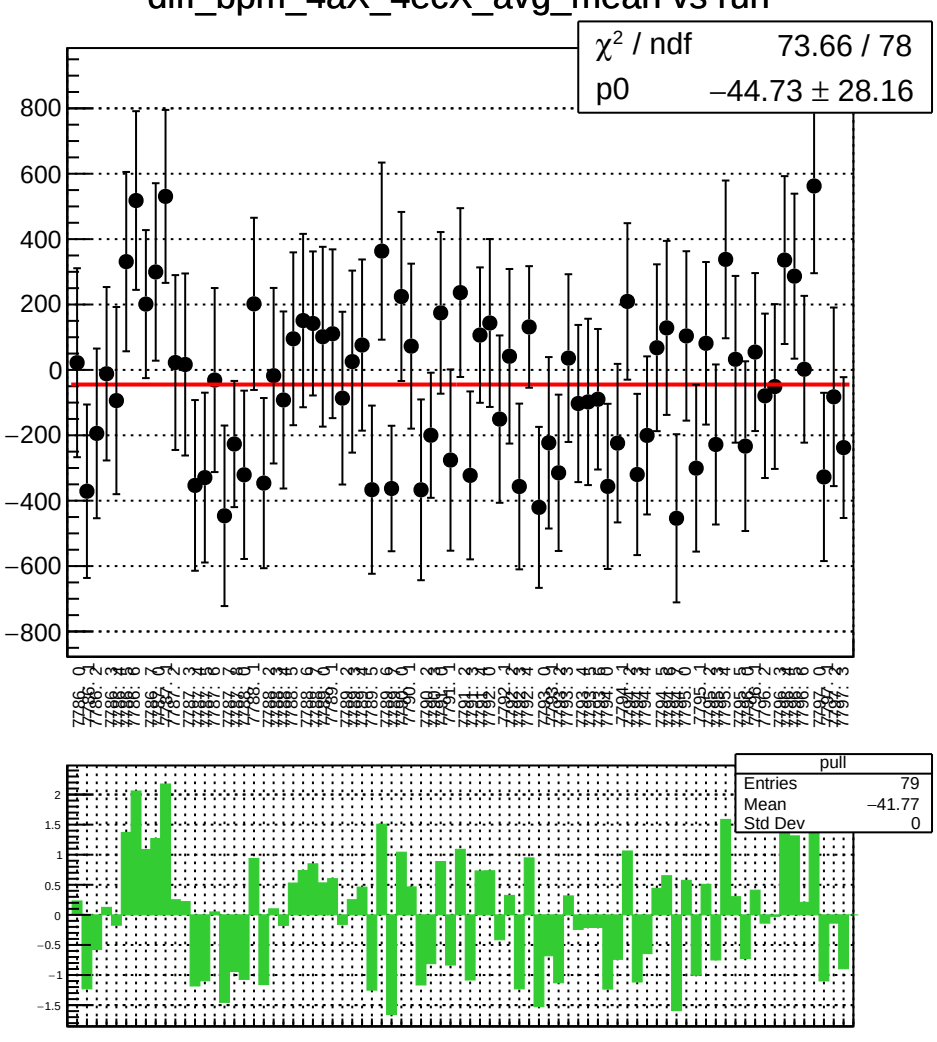

pull1D
Entries 79
Mean 0.01177
Std Dev 0.9645

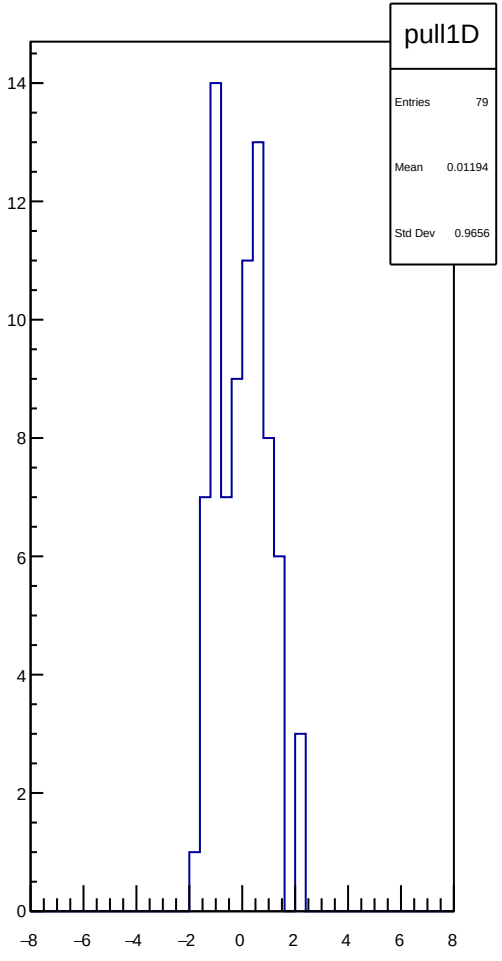

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2490 / 78
p0 2.45e+04 ± 19.8
27000
26000
25000
24000
23000
22000

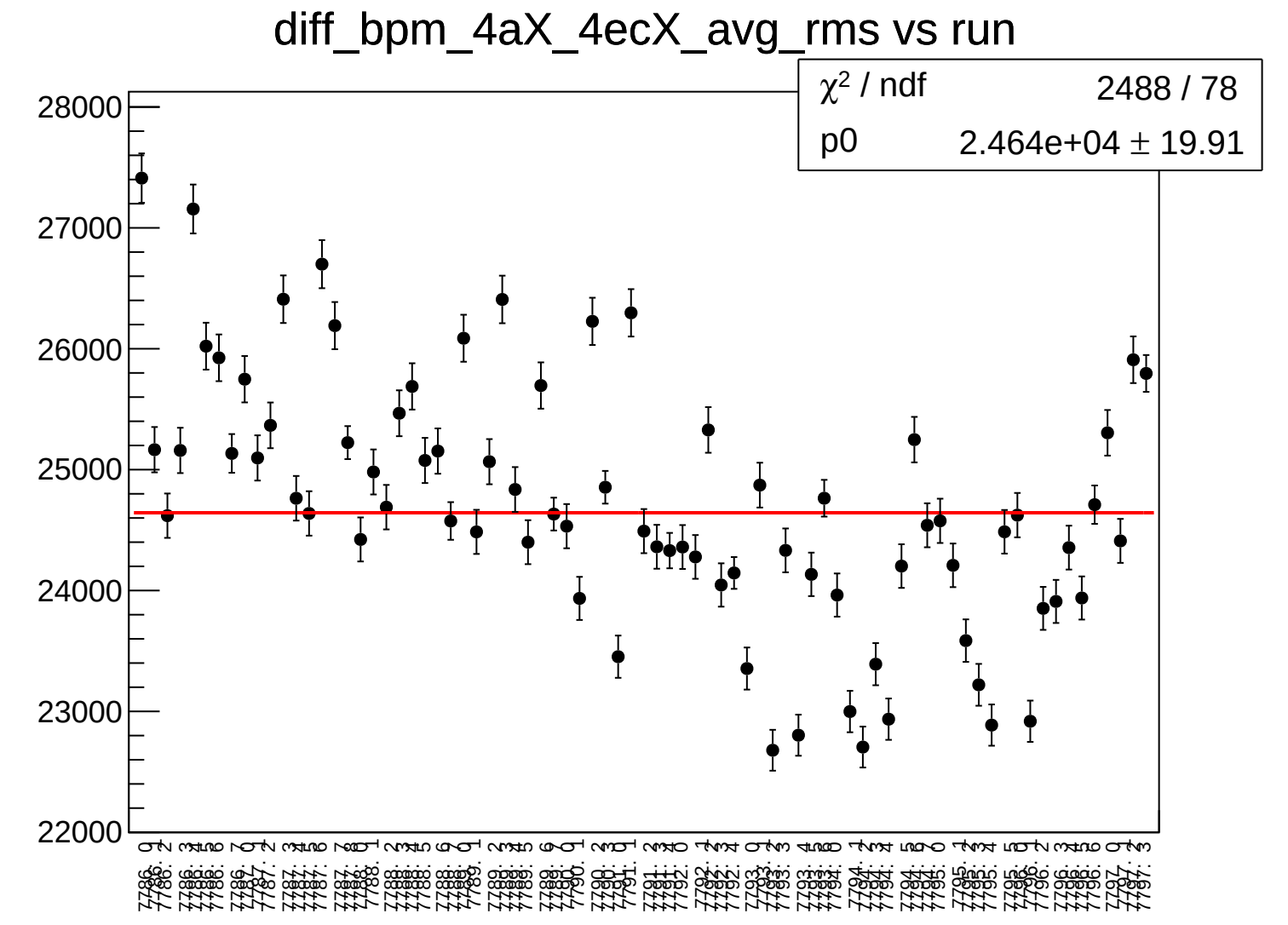

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 78.25 / 78
p0 −1.149 ± 0.7928
pull
Entries 79
Mean −174
Std Dev 0

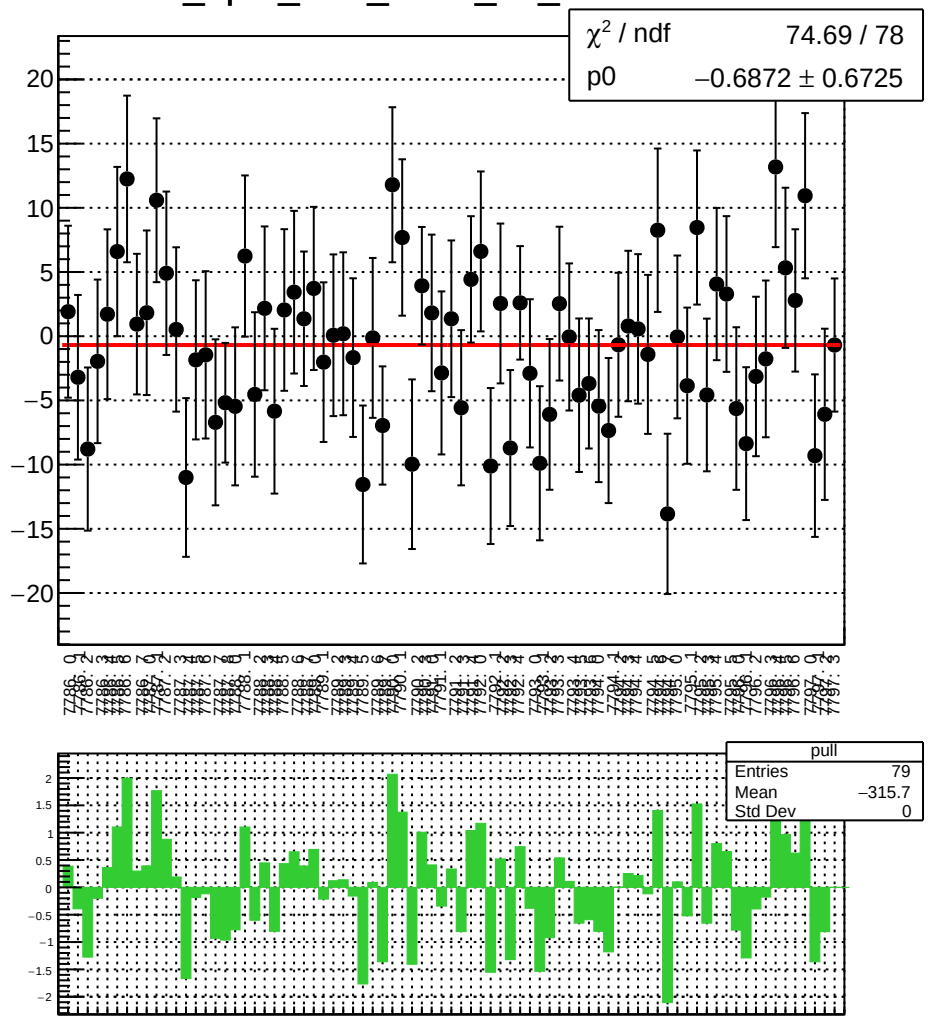

pull1D
Entries 79
Mean 0.01135
Std Dev 0.9952

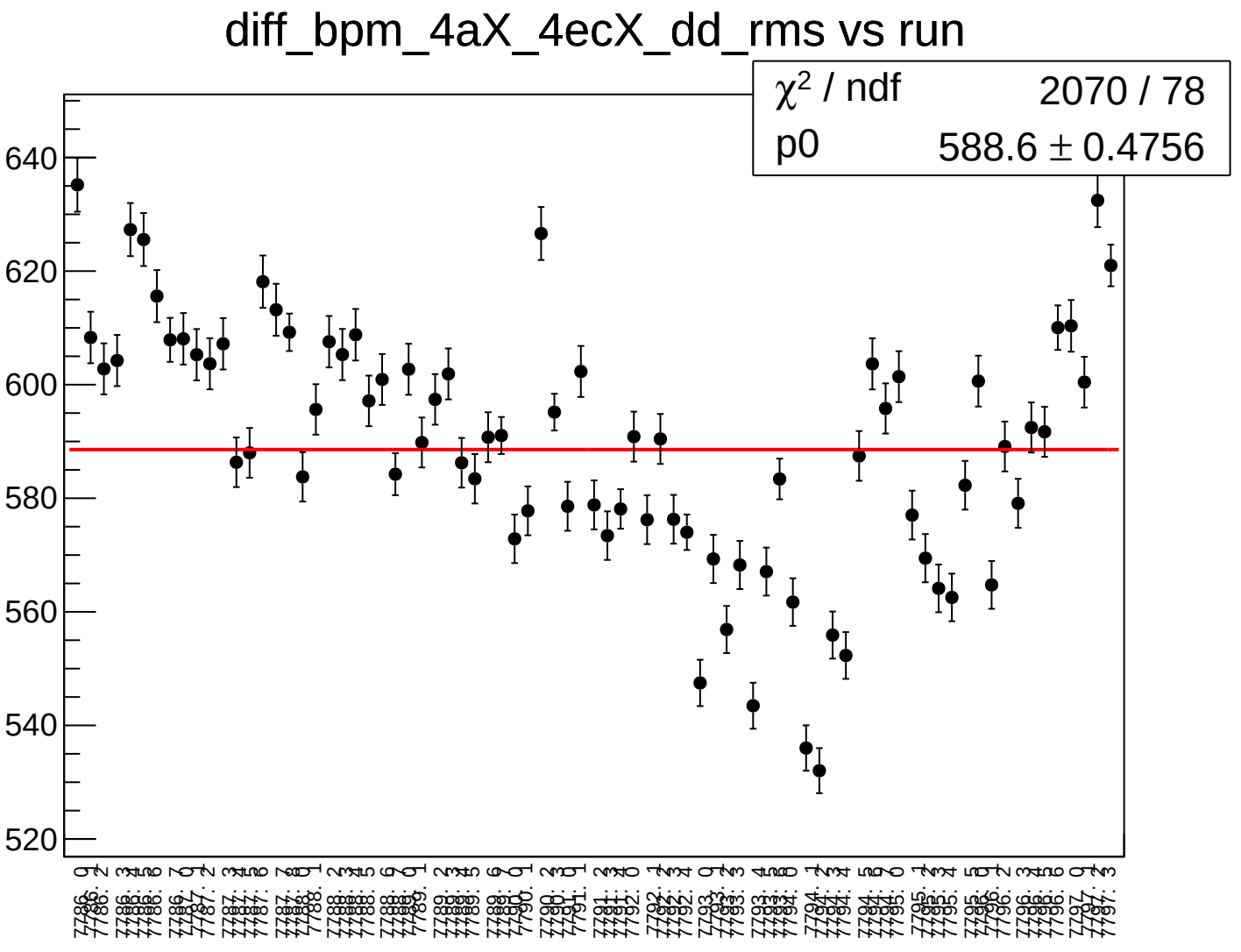

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2564 / 78
p0 693.7 ± 0.5606
780
760
740
720
700
680
660
640
620

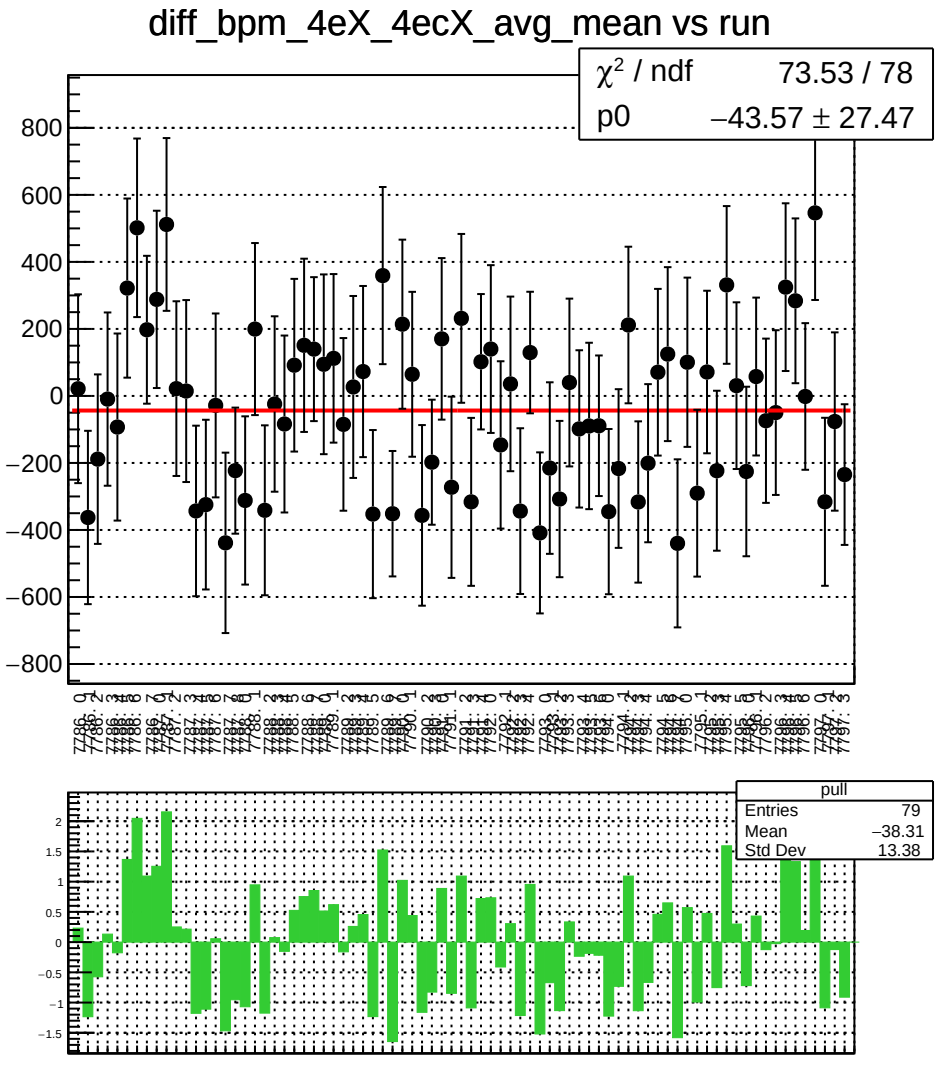

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 73.66 / 78
p0 −44.73 ± 28.16
pull
Entries 79
Mean −41.77
Std Dev 0

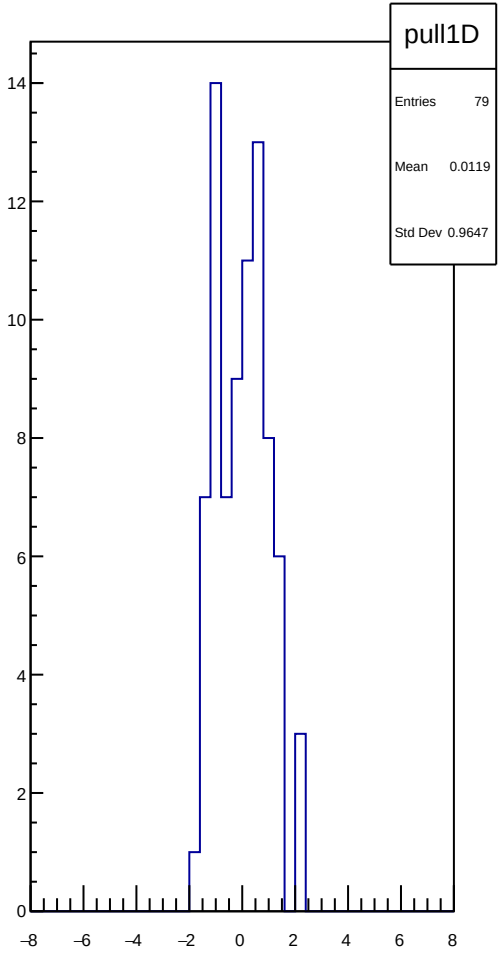

pull1D
Entries 79
Mean 0.01194
Std Dev 0.9656

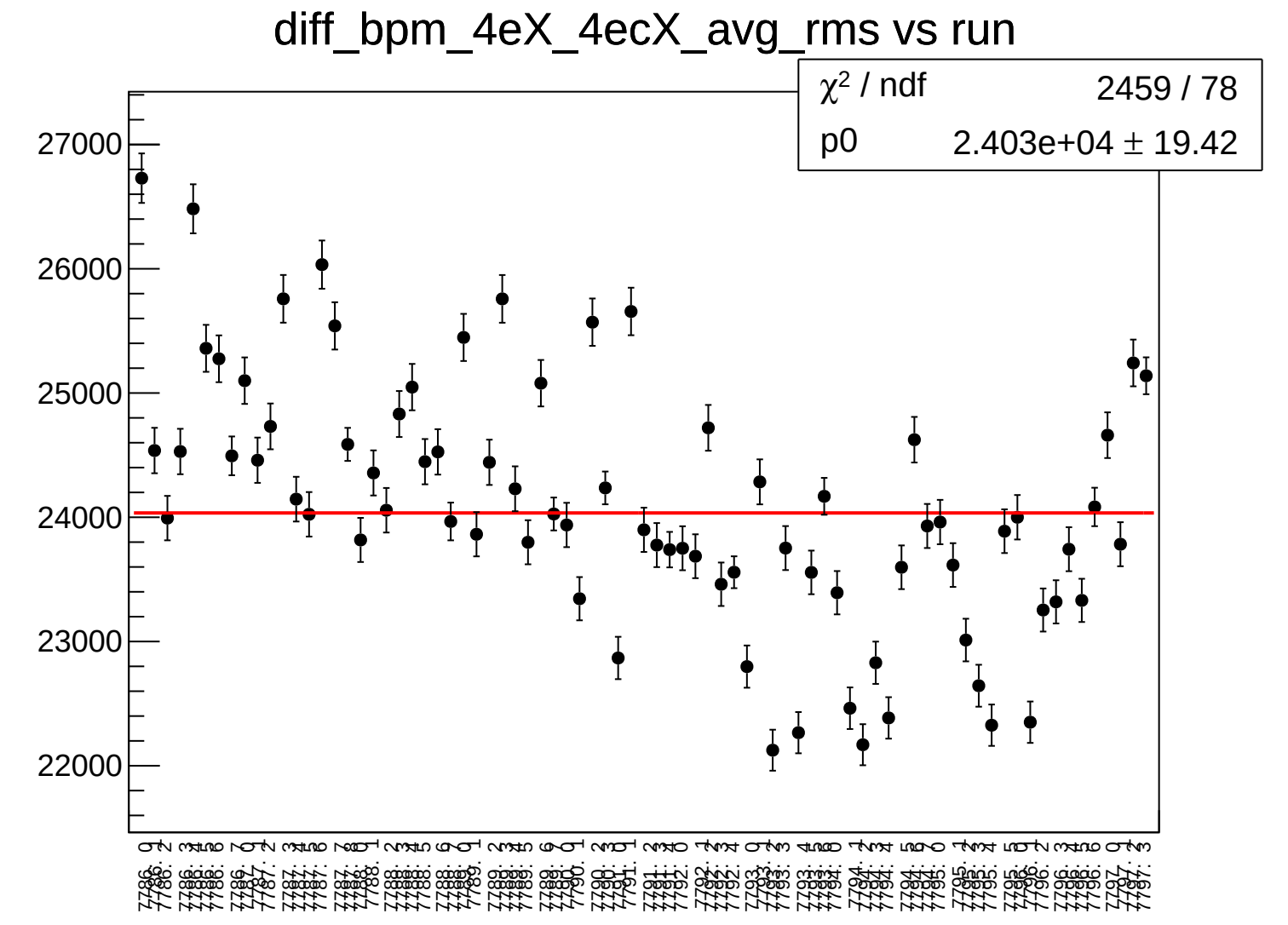

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2488 / 78
p0 2.464e+04 ± 19.91
28000
27000
26000
25000
24000
23000
22000

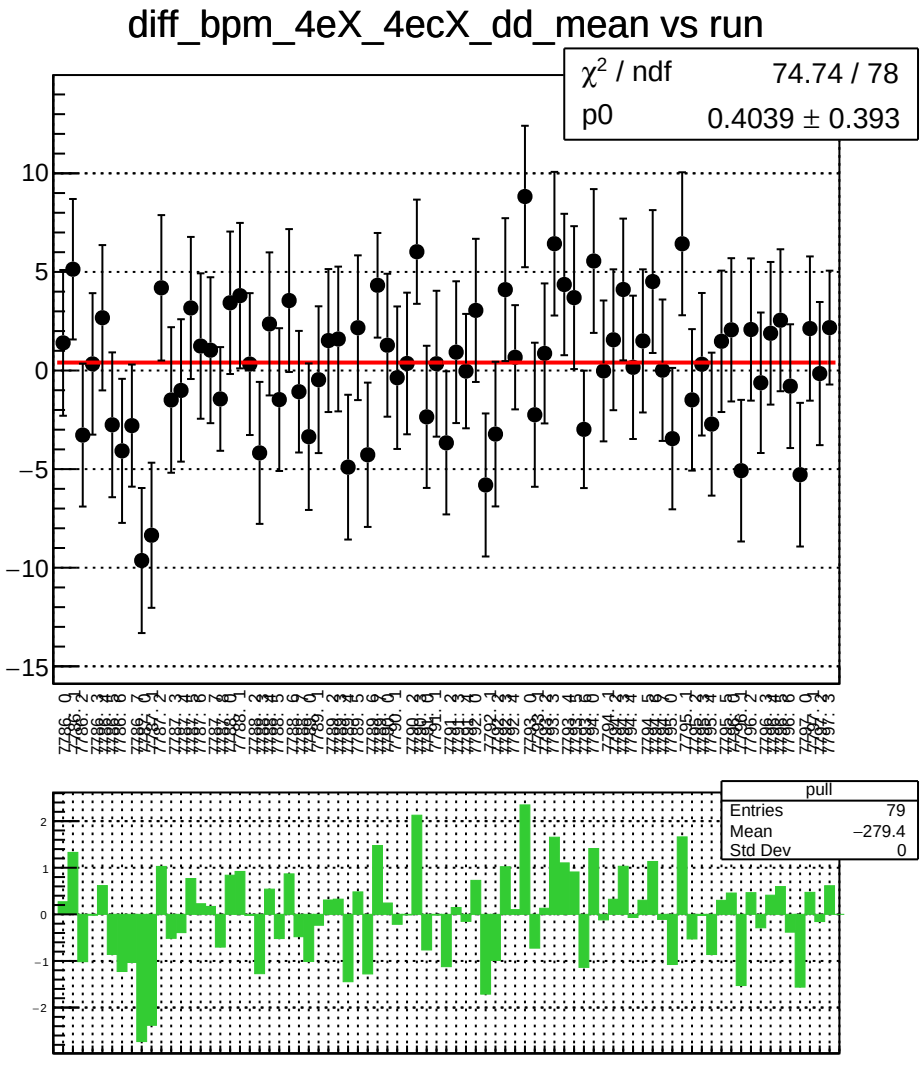

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 74.69 / 78
p0 −0.6872 ± 0.6725
pull
Entries 79
Mean −315.7
Std Dev 0
pull1D
Entries 79
Mean 0.002761
Std Dev 0.9723

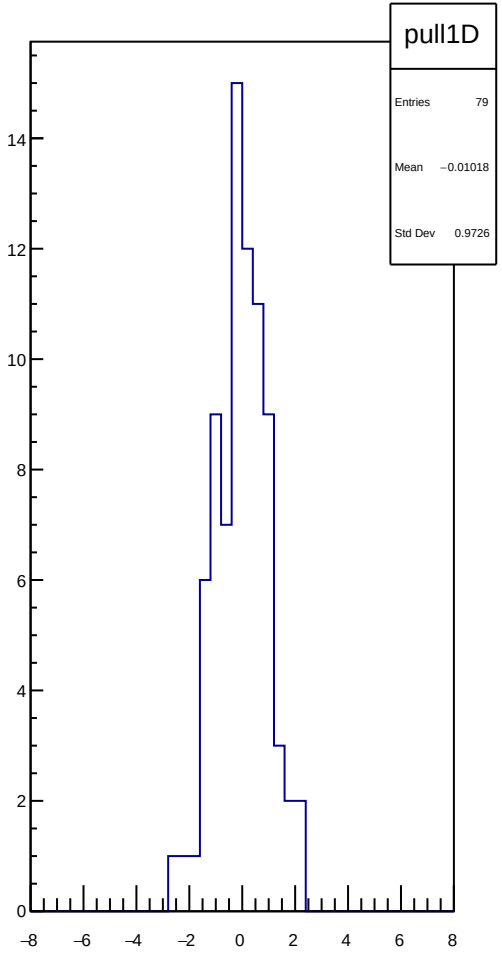

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 2070 / 78
p0 588.6 ± 0.4756
640
620
600
580
560
540
520

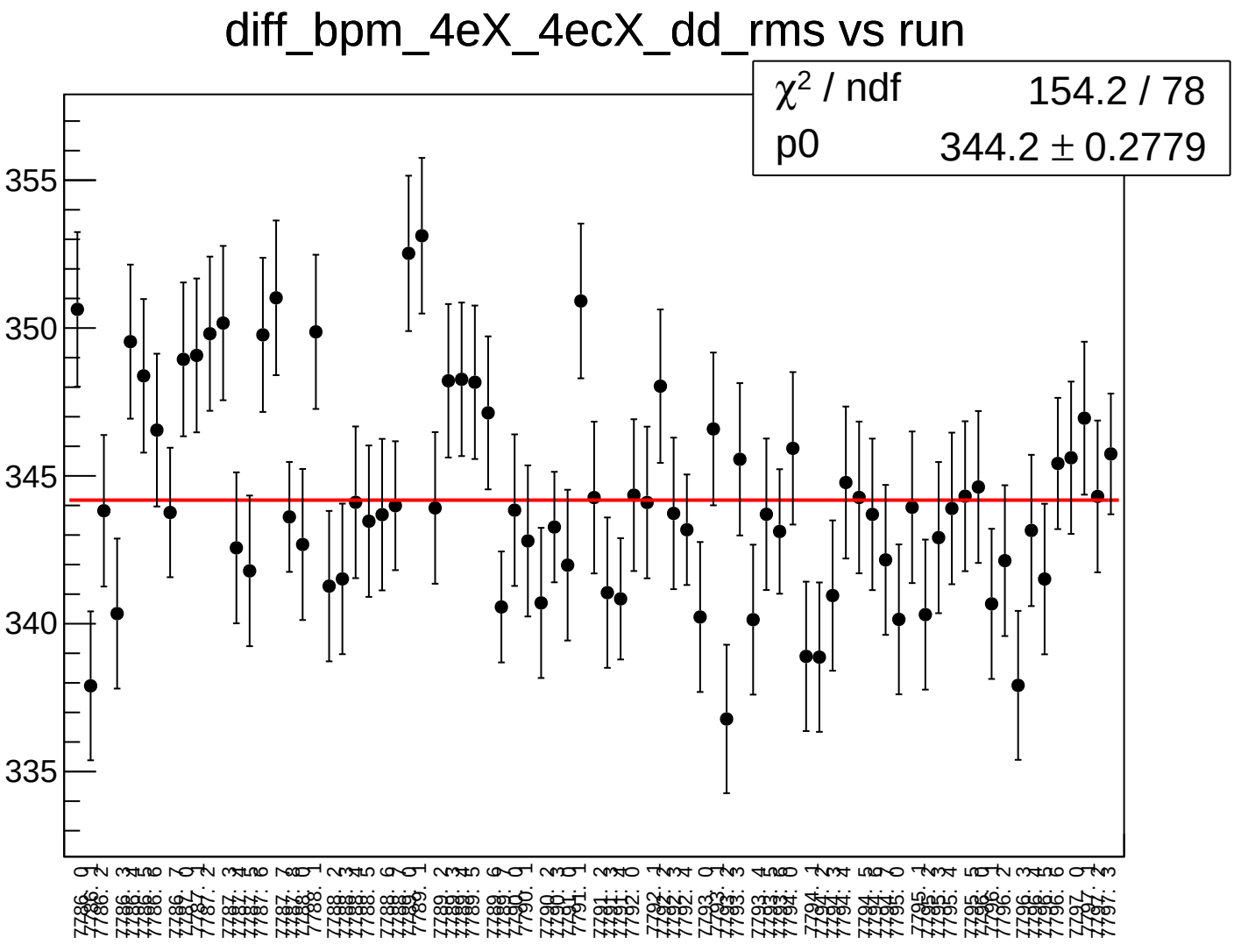

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 73.53 / 78
p0 −43.57 ± 27.47
pull
Entries 79
Mean −38.31
Std Dev 13.38

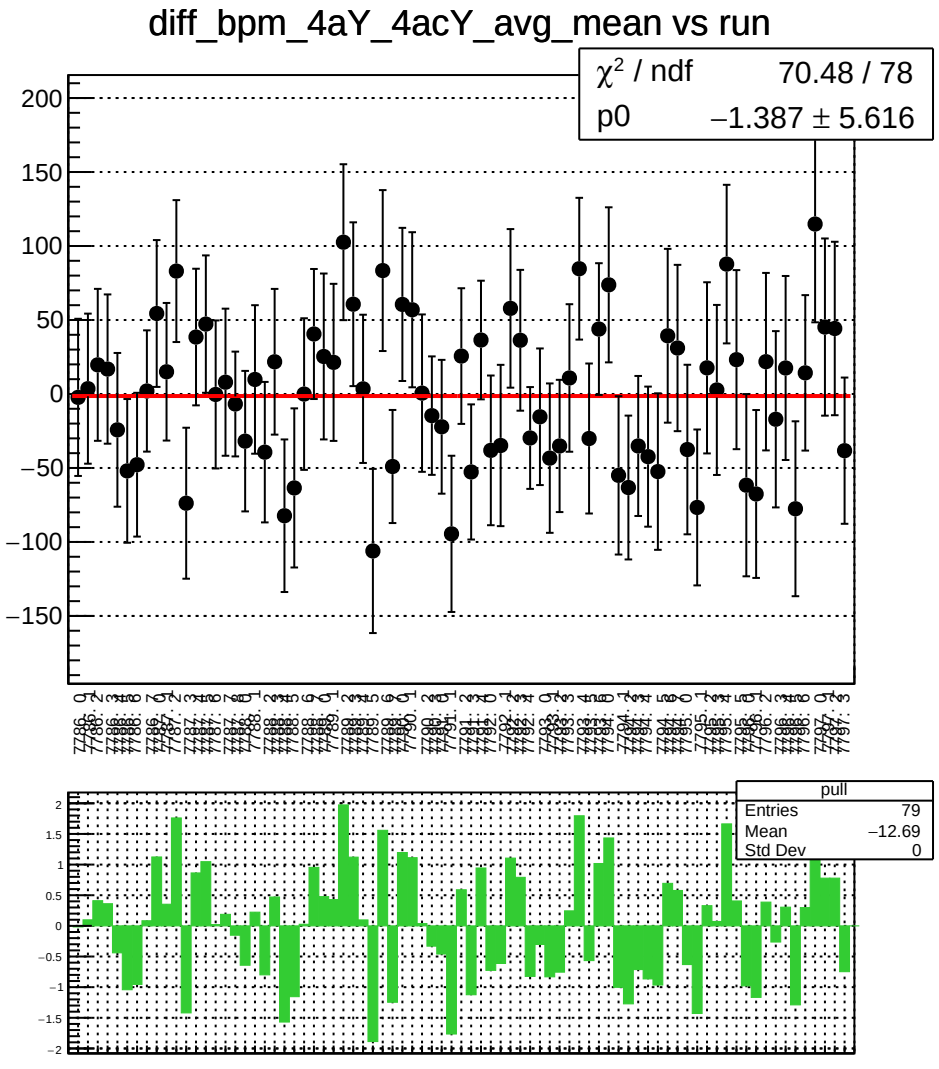

pull1D
Entries 79
Mean 0.0119
Std Dev 0.9647

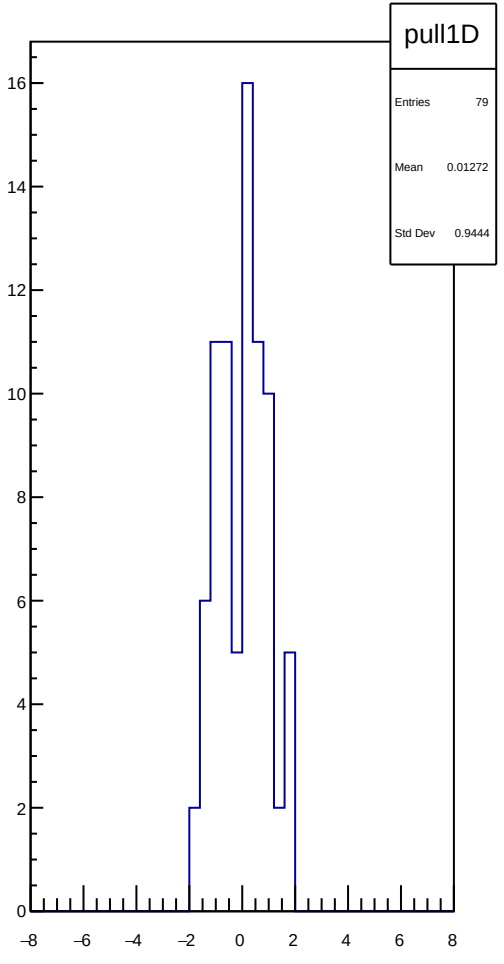

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2459 / 78
p0 2.403e+04 ± 19.42
27000
26000
25000
24000
23000
22000

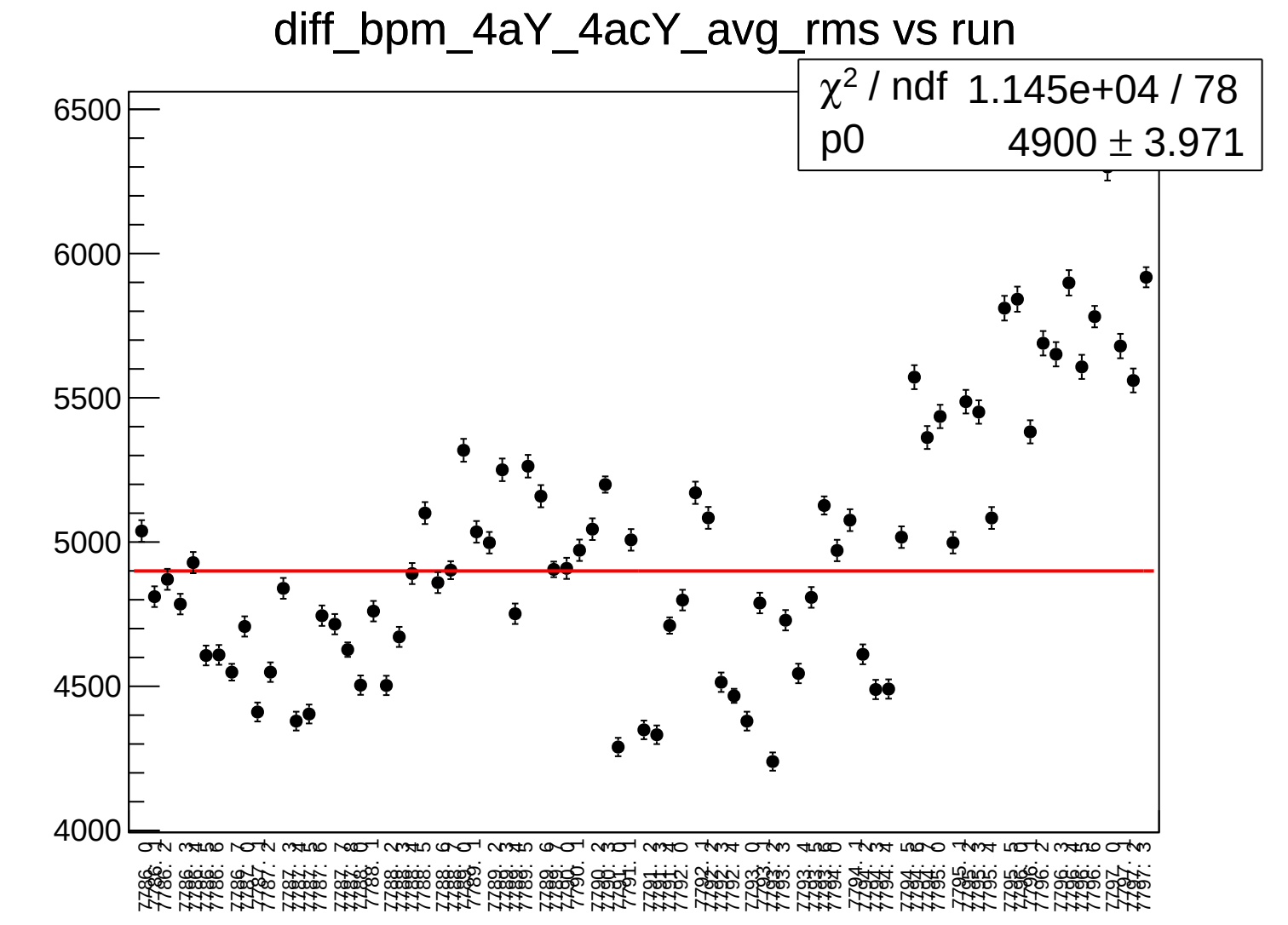

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 74.74 / 78
p0 0.4039 ± 0.393
pull
Entries 79
Mean −279.4
Std Dev 0

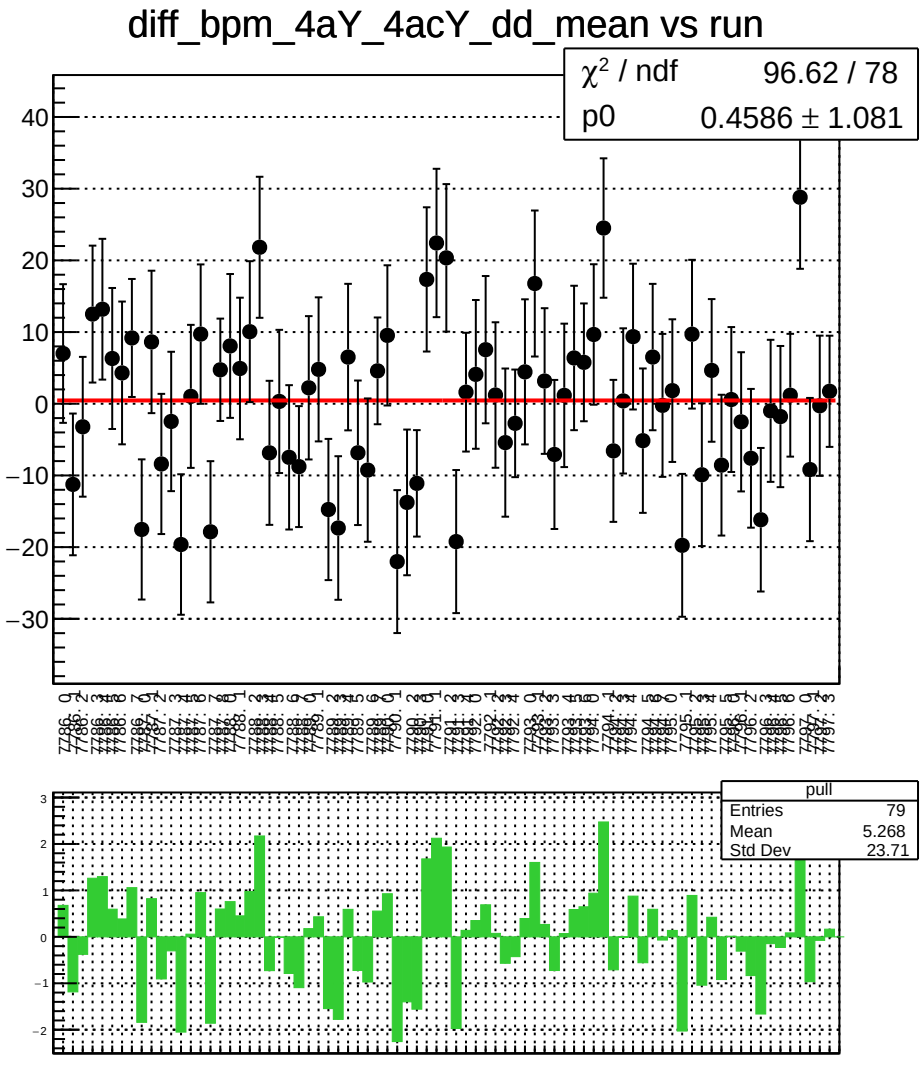

pull1D
Entries 79
Mean −0.01018
Std Dev 0.9726

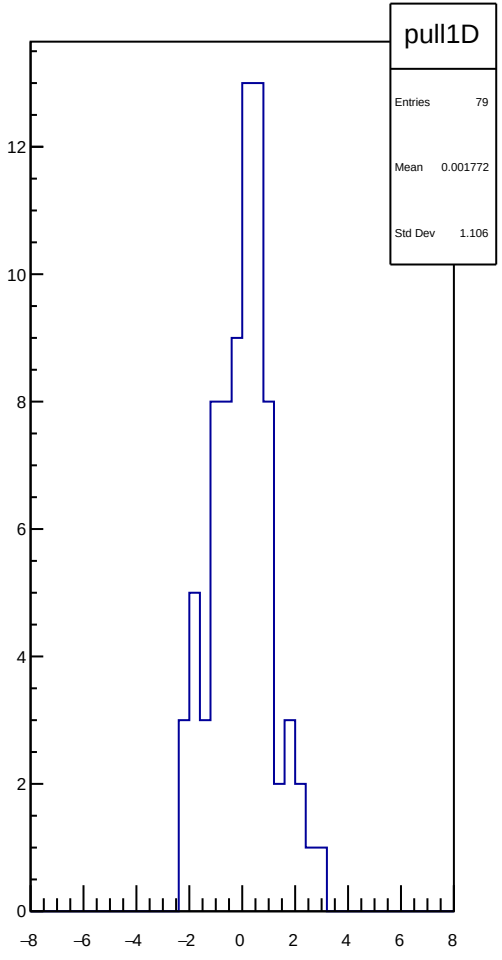

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 154.2 / 78
p0 344.2 ± 0.2779
355
350
345
340
335

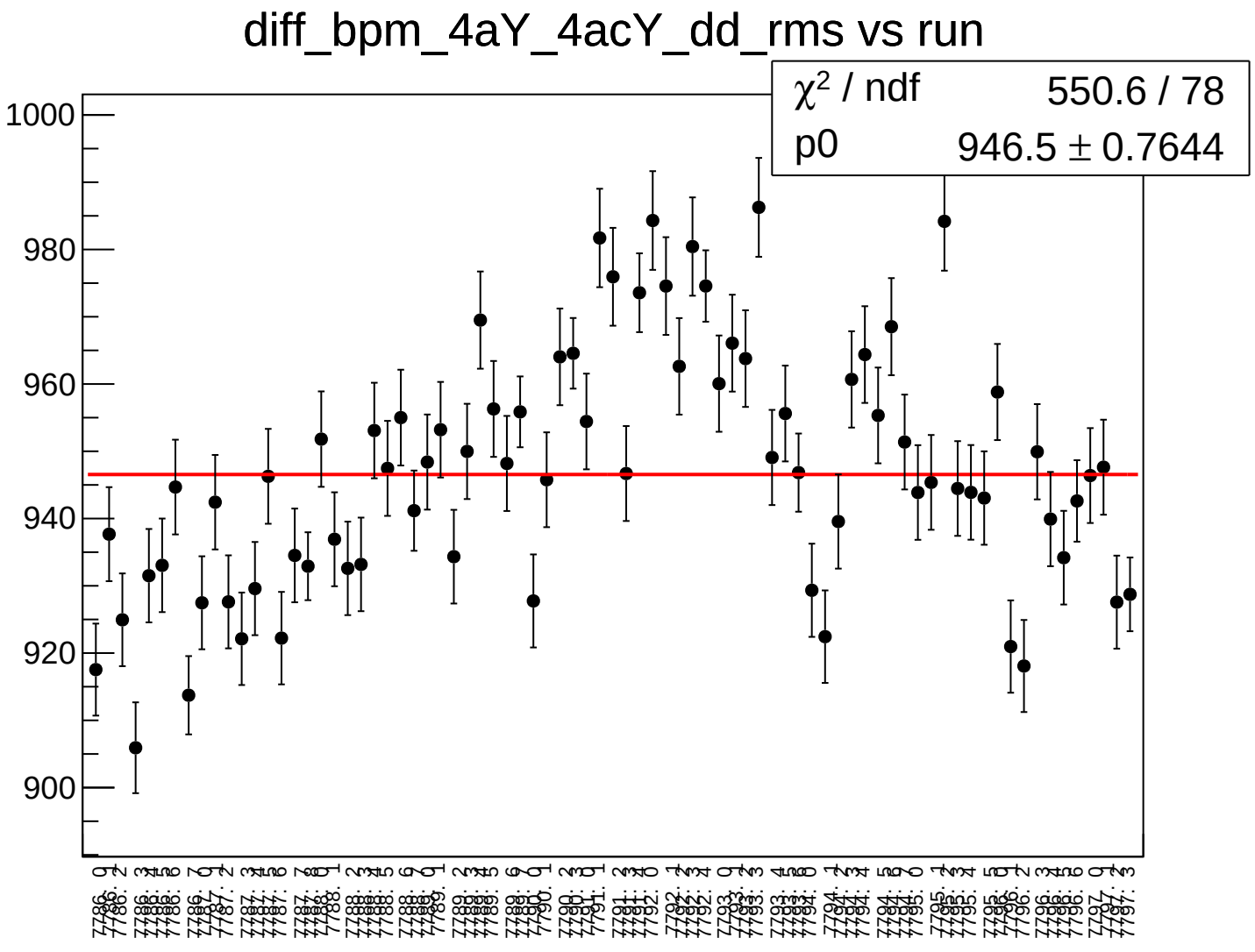

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 70.48 / 78
p0 −1.387 ± 5.616
pull
Entries 79
Mean −12.69
Std Dev 0

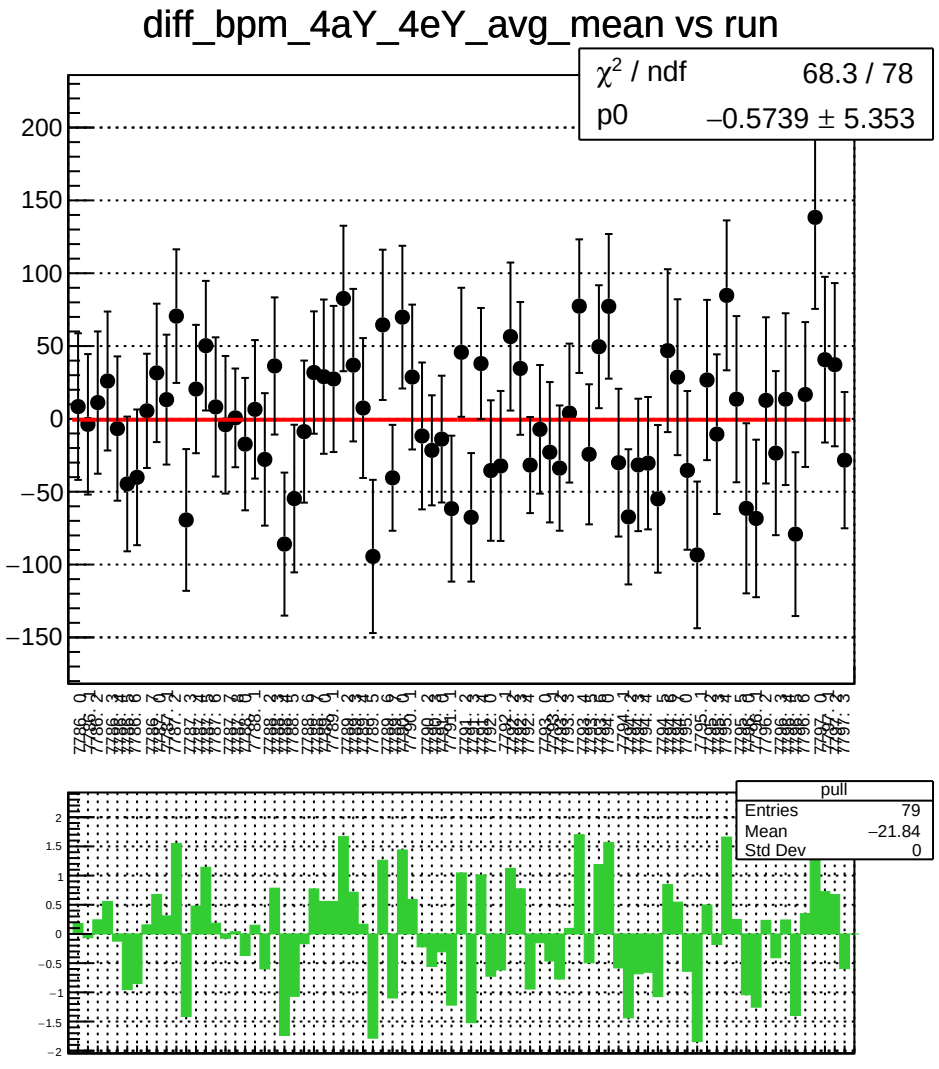

pull1D
Entries 79
Mean 0.01272
Std Dev 0.9444

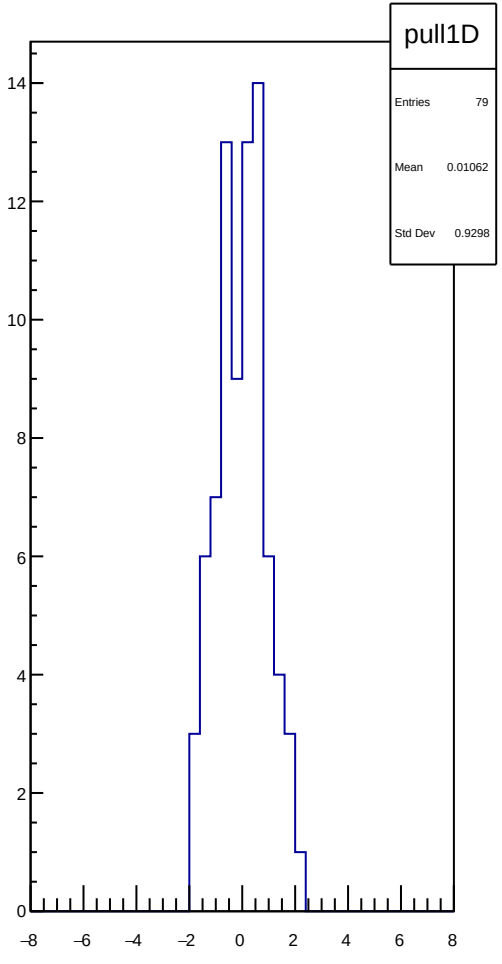

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1.145e+04 / 78
p0 4900 ± 3.971
6500
6000
5500
5000
4500
4000

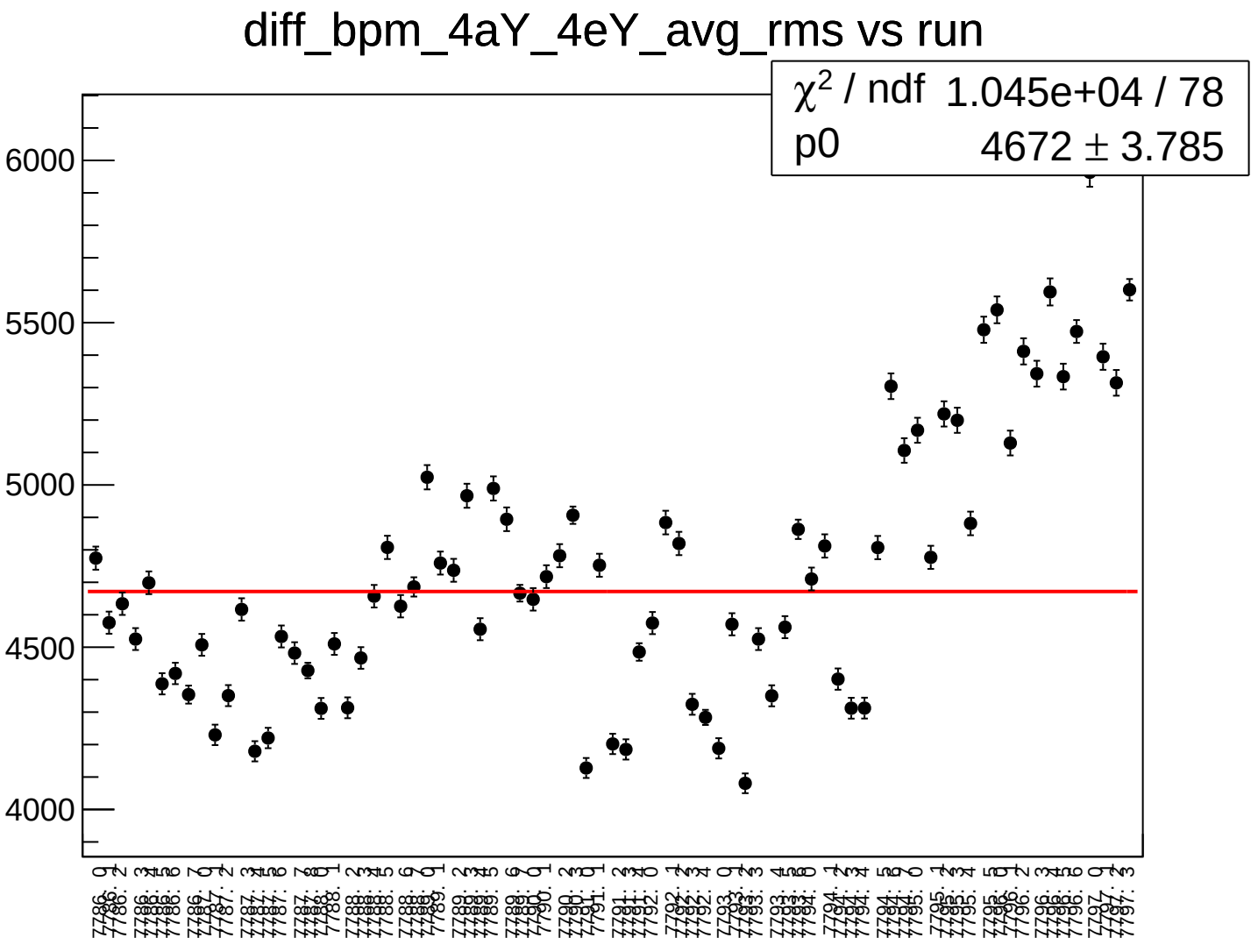

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 96.62 / 78
p0 0.4586 ± 1.081
pull
Entries 79
Mean 5.268
Std Dev 23.71

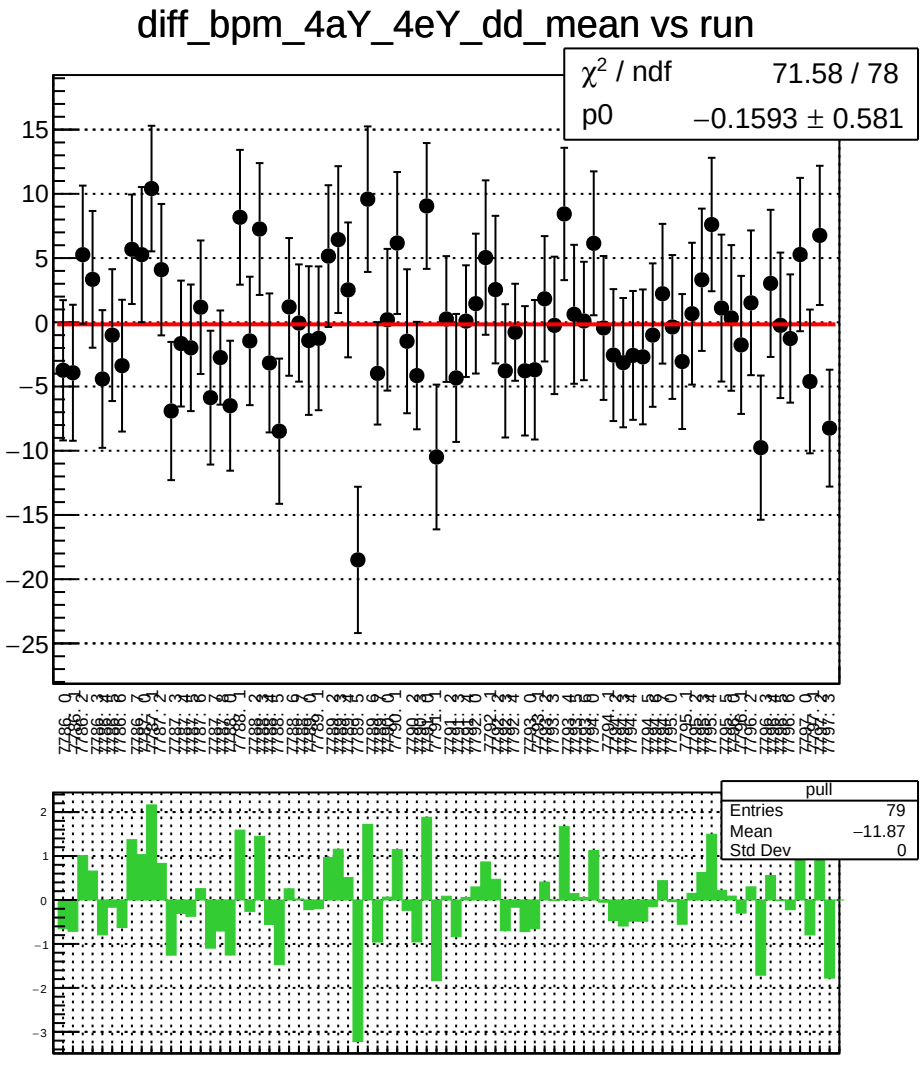

pull1D
Entries 79
Mean 0.001772
Std Dev 1.106

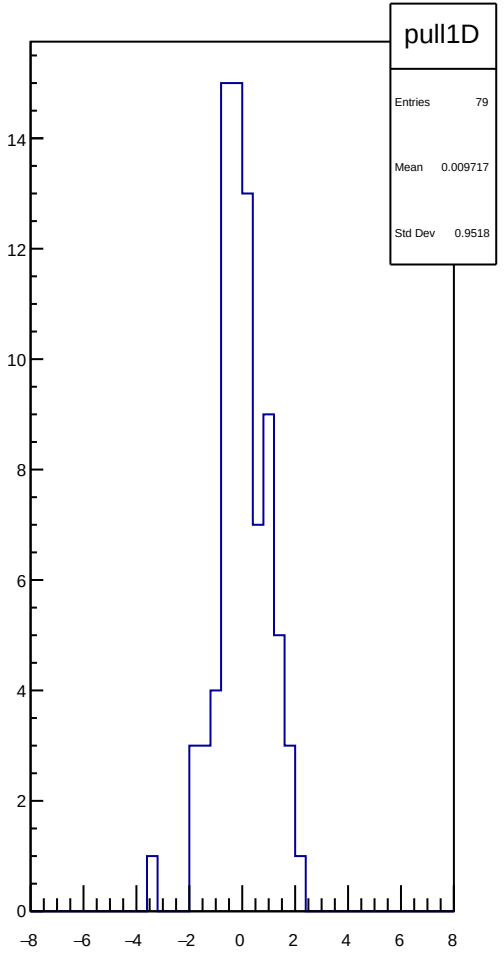

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 550.6 / 78
p0 946.5 ± 0.7644
1000
980
960
940
920
900

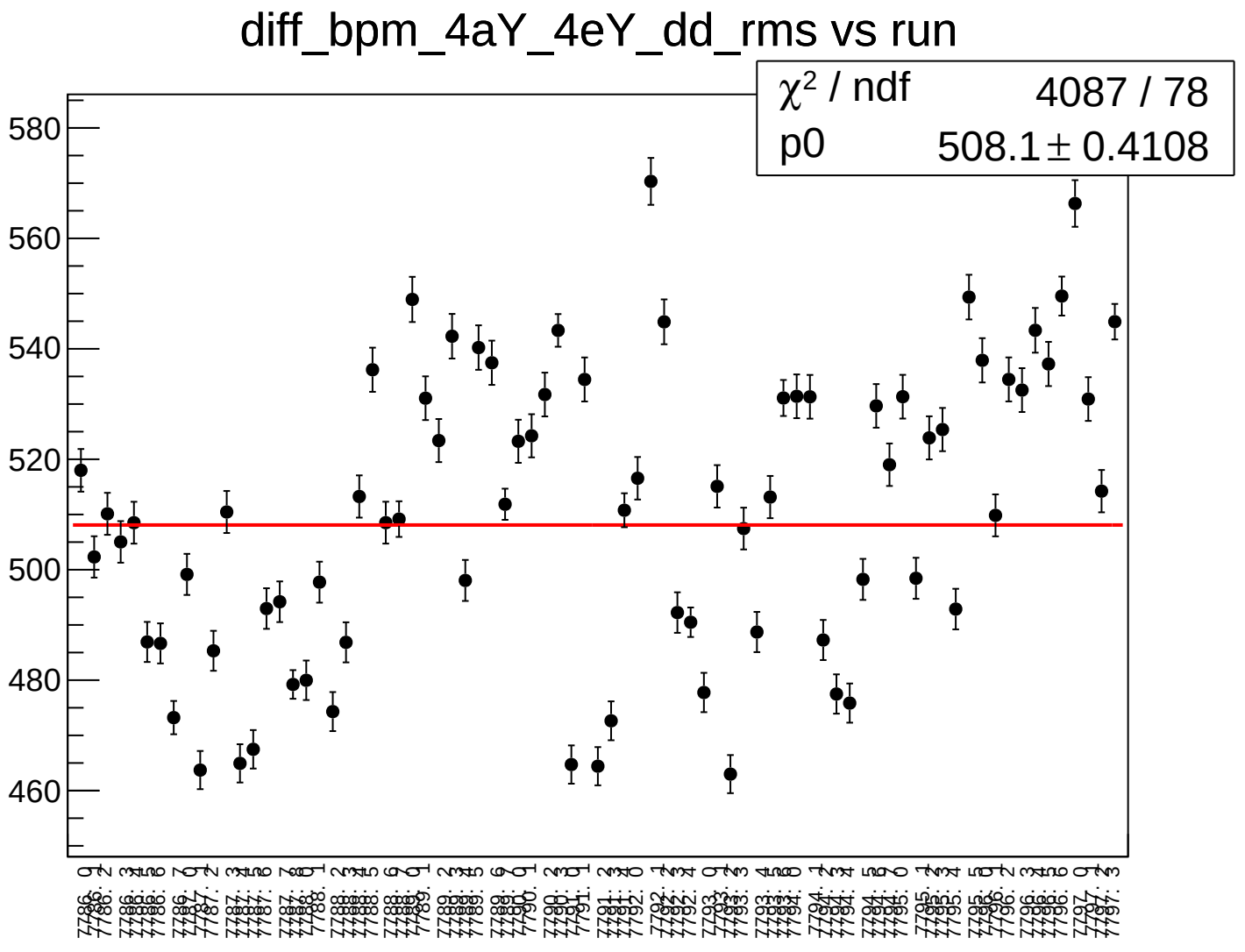

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 68.3 / 78
p0 −0.5739 ± 5.353
pull
Entries 79
Mean −21.84
Std Dev 0

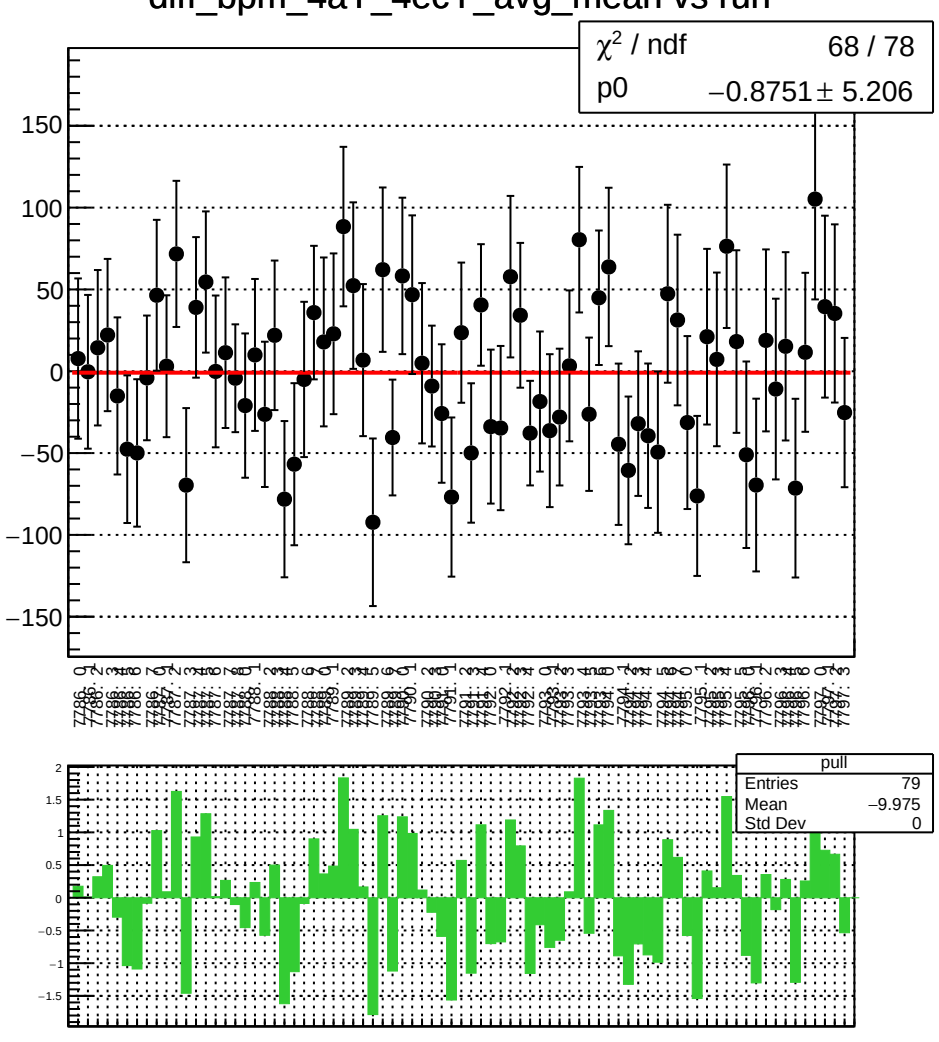

pull1D
Entries 79
Mean 0.01062
Std Dev 0.9298

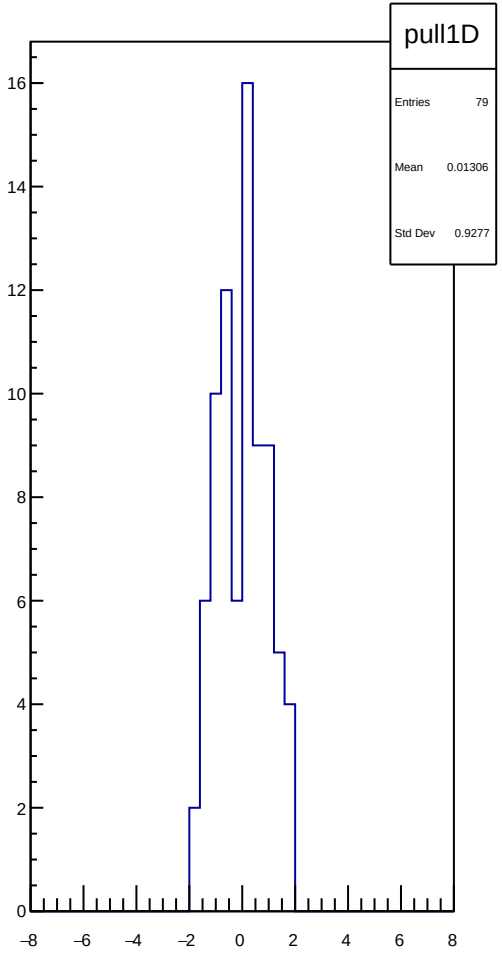

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1.045e+04 / 78
p0 4672 ± 3.785
6000
5500
5000
4500
4000

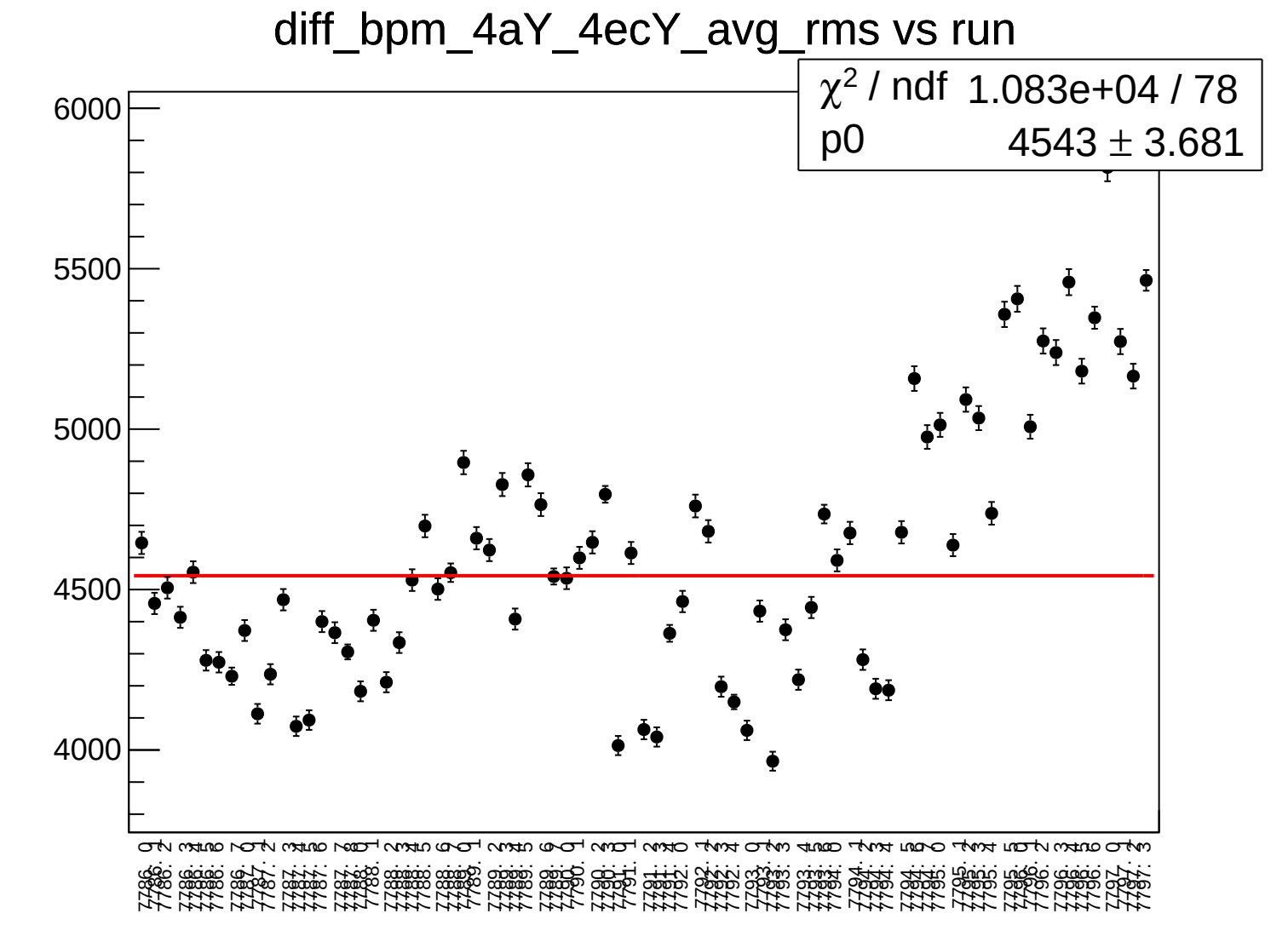

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 71.58 / 78
p0 −0.1593 ± 0.581
pull
Entries 79
Mean −11.87
Std Dev 0

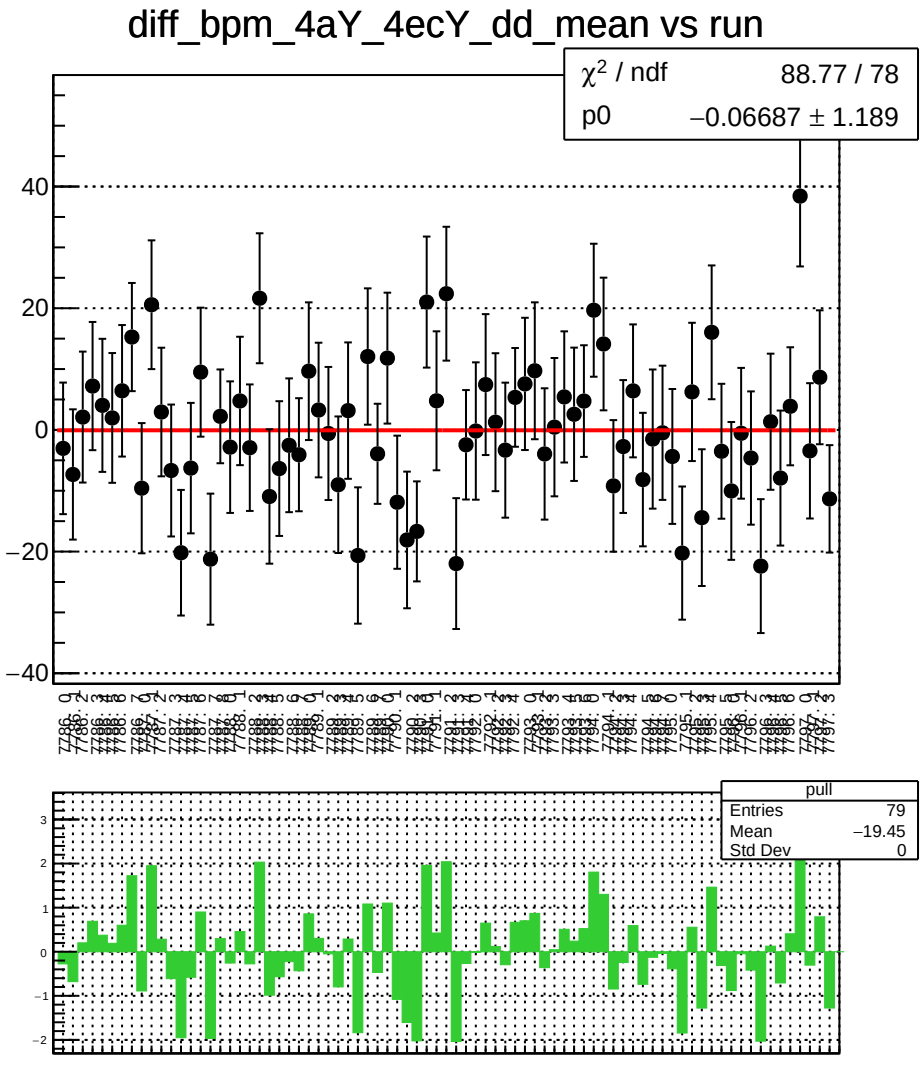

pull1D
Entries 79
Mean 0.009717
Std Dev 0.9518

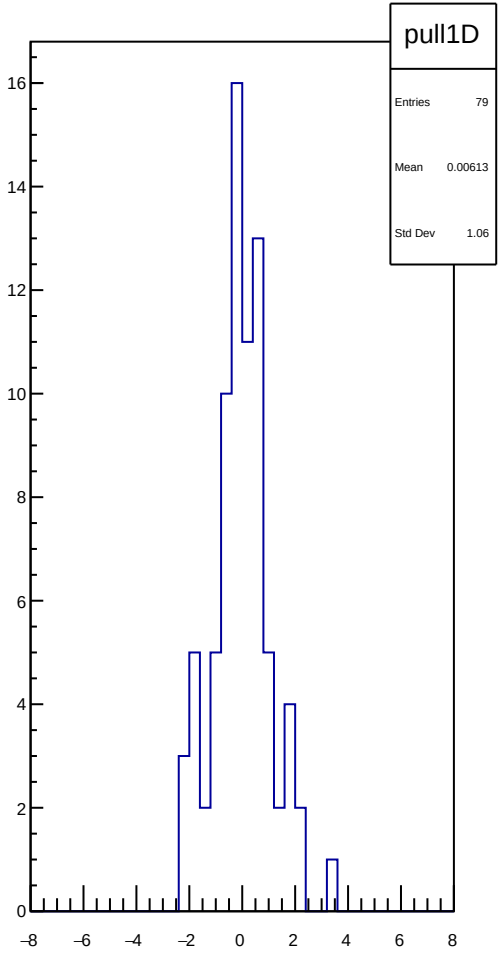

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 4087 / 78
p0 508.1 ± 0.4108
580
560
540
520
500
480
460

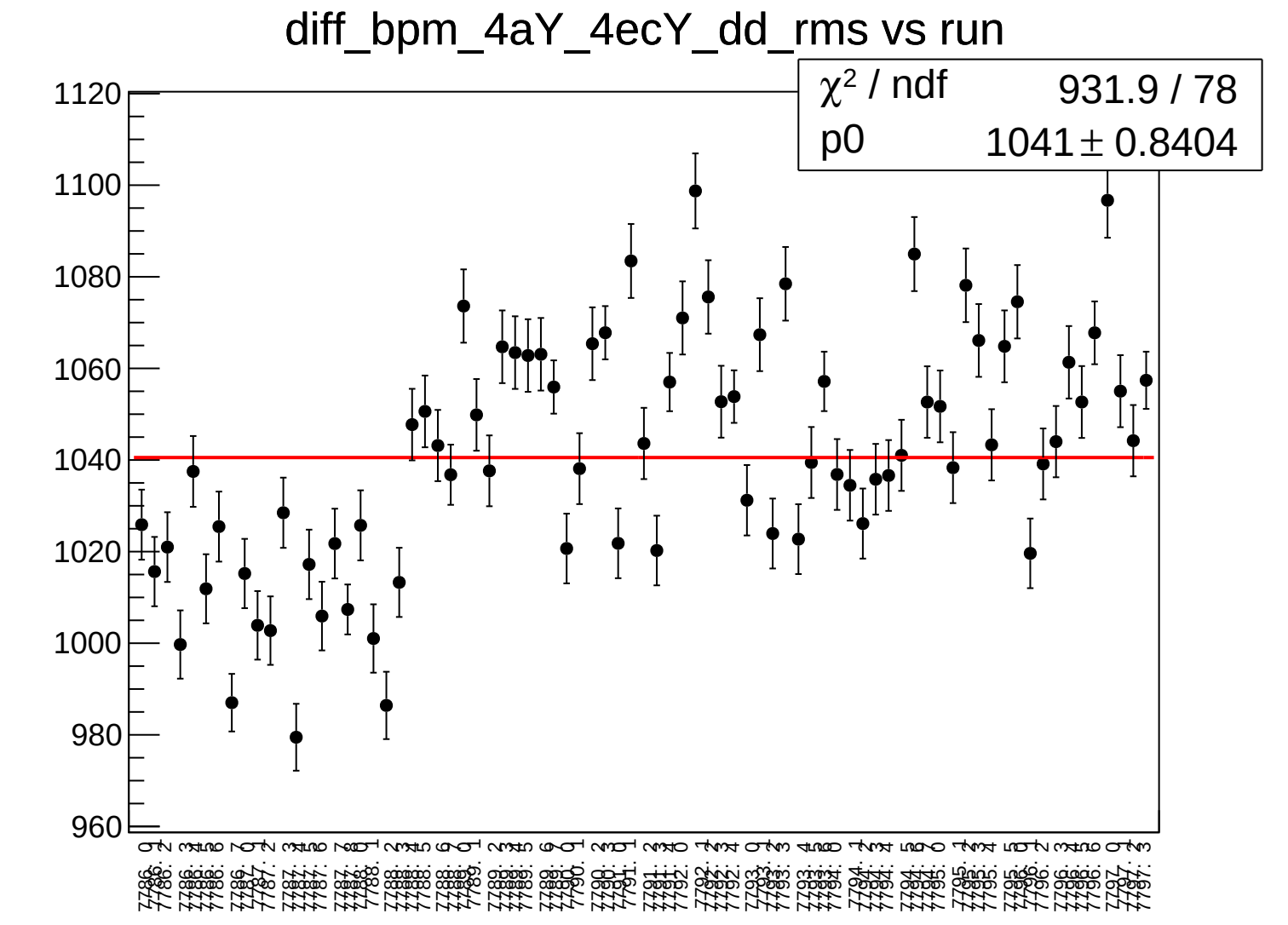

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 68 / 78
p0 −0.8751 ± 5.206
pull
Entries 79
Mean −9.975
Std Dev 0

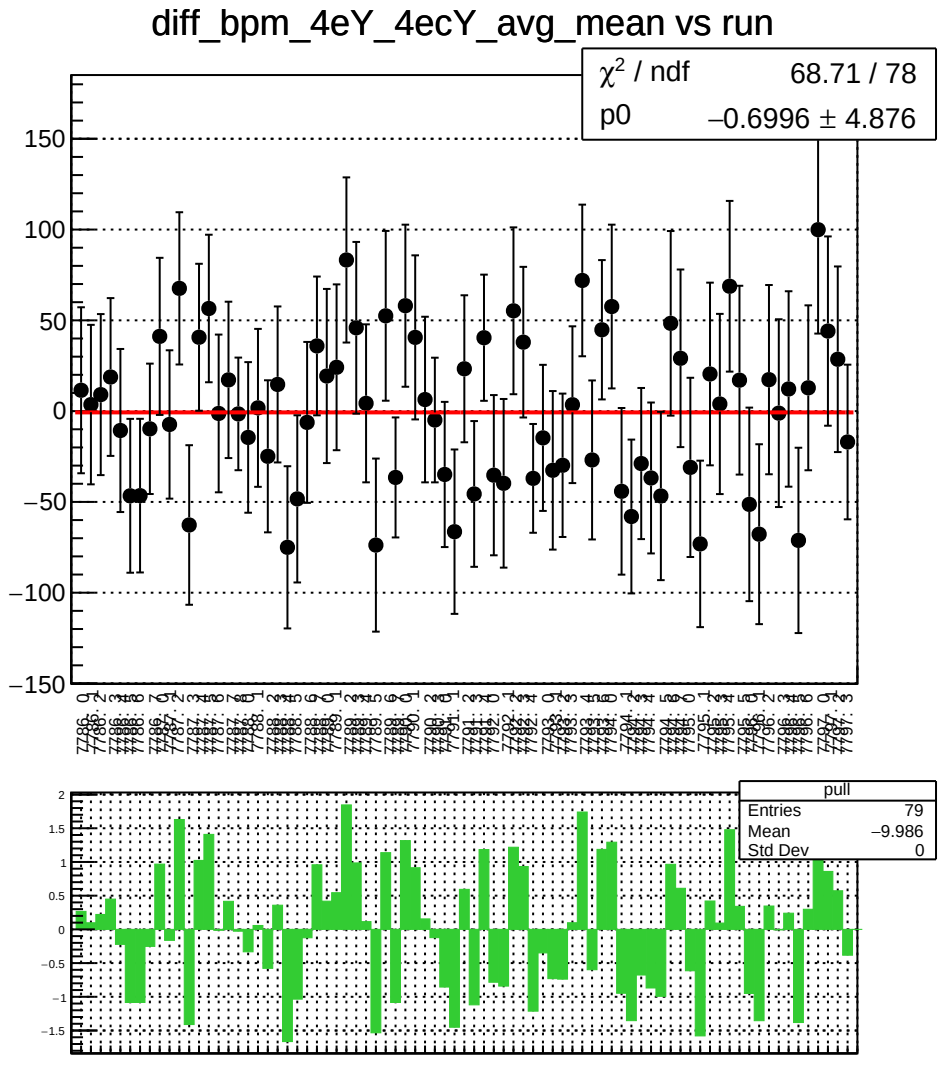

pull1D
Entries 79
Mean 0.01306
Std Dev 0.9277

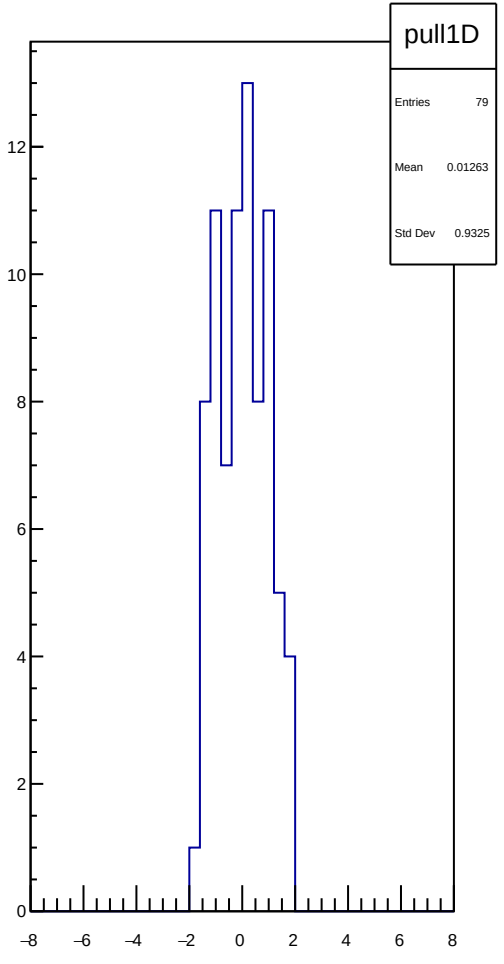

diff_bpm_4aY_4ecY_avg_rms vs run
χ^2 / ndf 1.083e+04 / 78
p0 4543 ± 3.681
6000
5500
5000
4500
4000

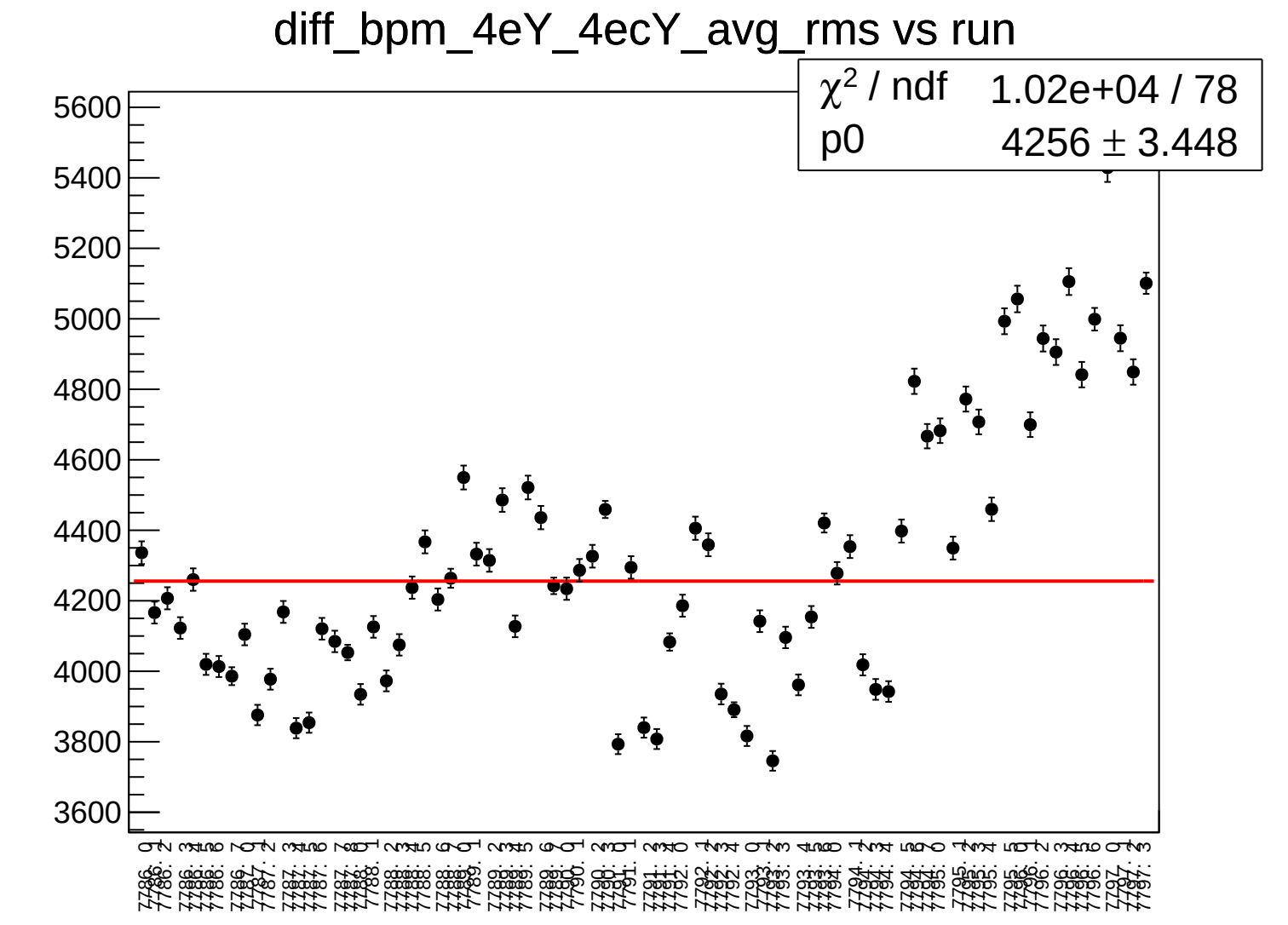

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 88.77 / 78
p0 −0.06687 ± 1.189
pull
Entries 79
Mean −19.45
Std Dev 0

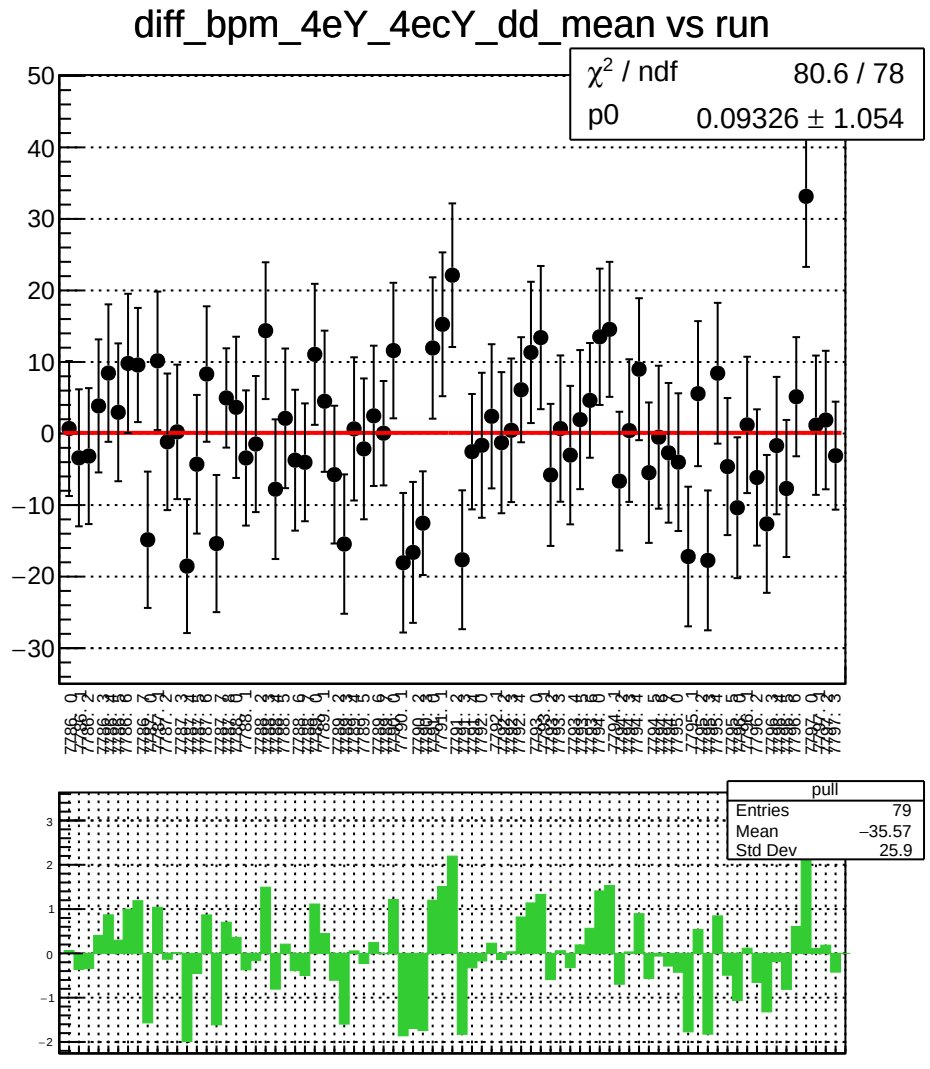

pull1D
Entries 79
Mean 0.00613
Std Dev 1.06

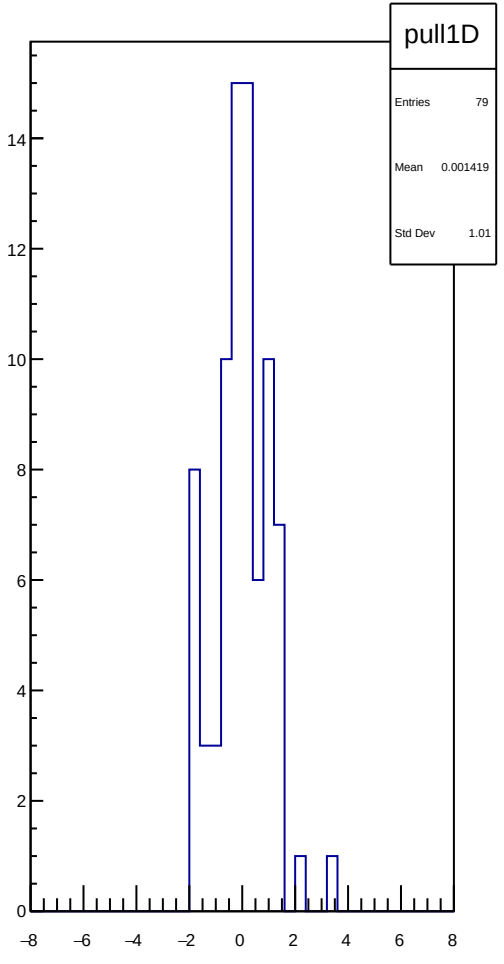

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 931.9 / 78
p0 1041 ± 0.8404
1120
1100
1080
1060
1040
1020
1000
980
960

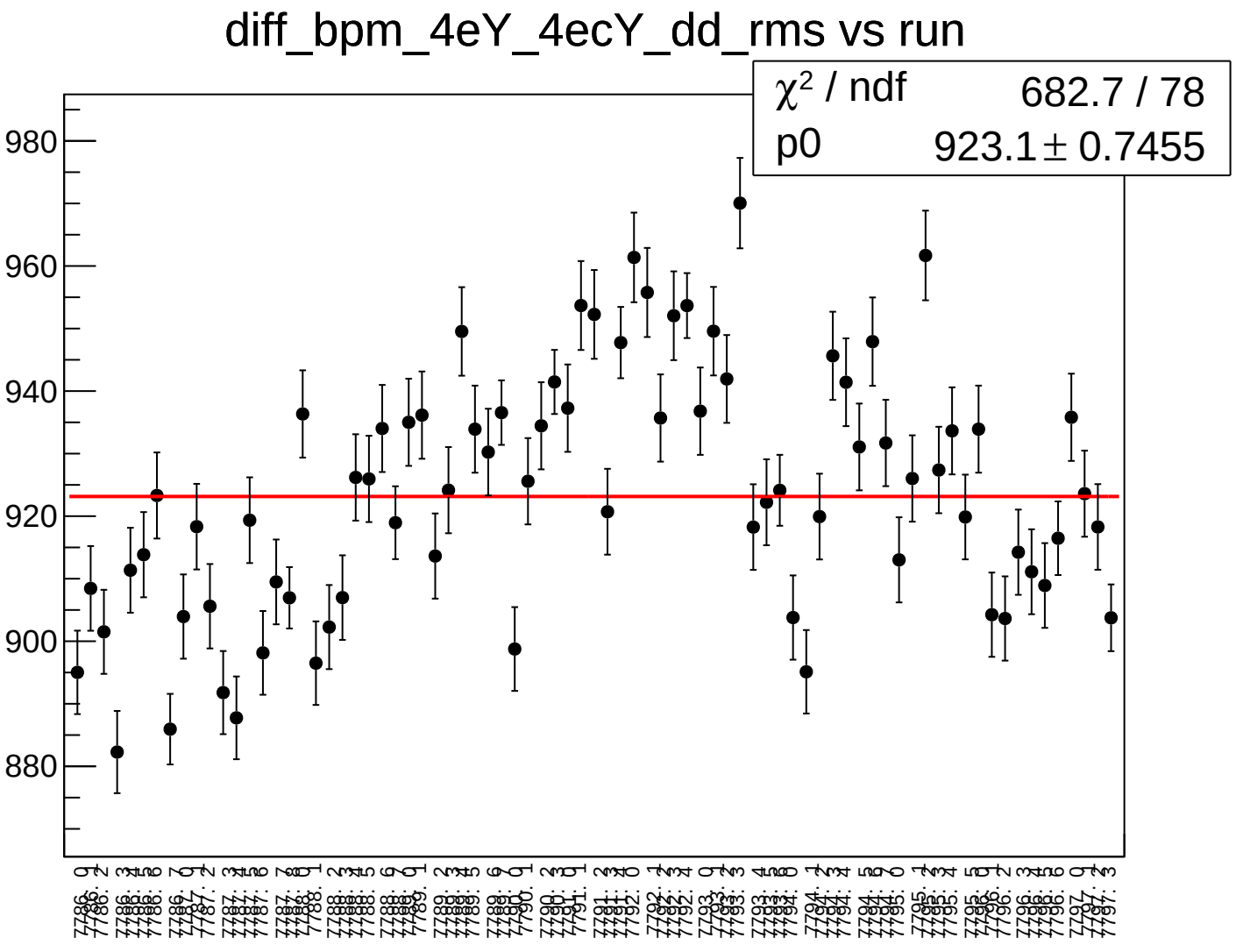

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 68.71 / 78
p0 −0.6996 ± 4.876
pull
Entries 79
Mean −9.986
Std Dev 0

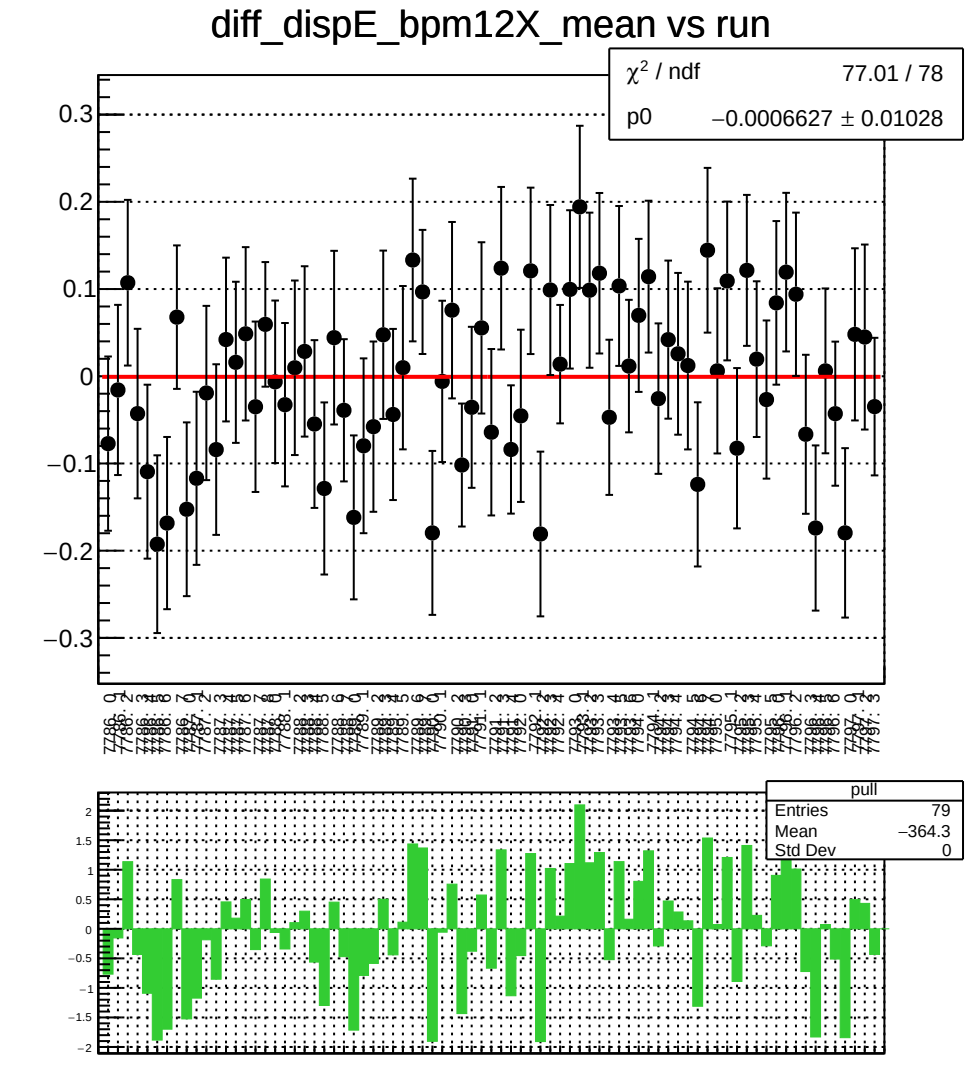

pull1D
Entries 79
Mean 0.01263
Std Dev 0.9325

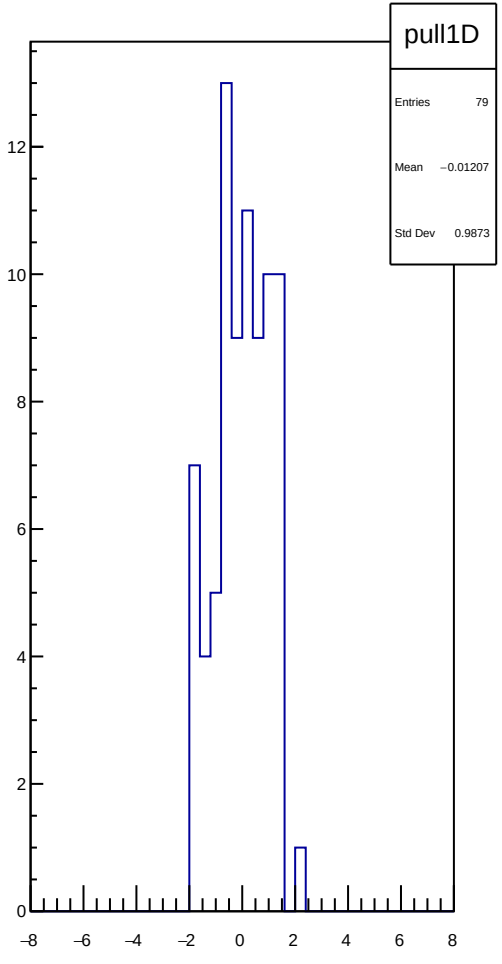

diff_bpm_4eY_4ecY_avg_rms vs run
χ^2 / ndf 1.02e+04 / 78
p0 4256 ± 3.448
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

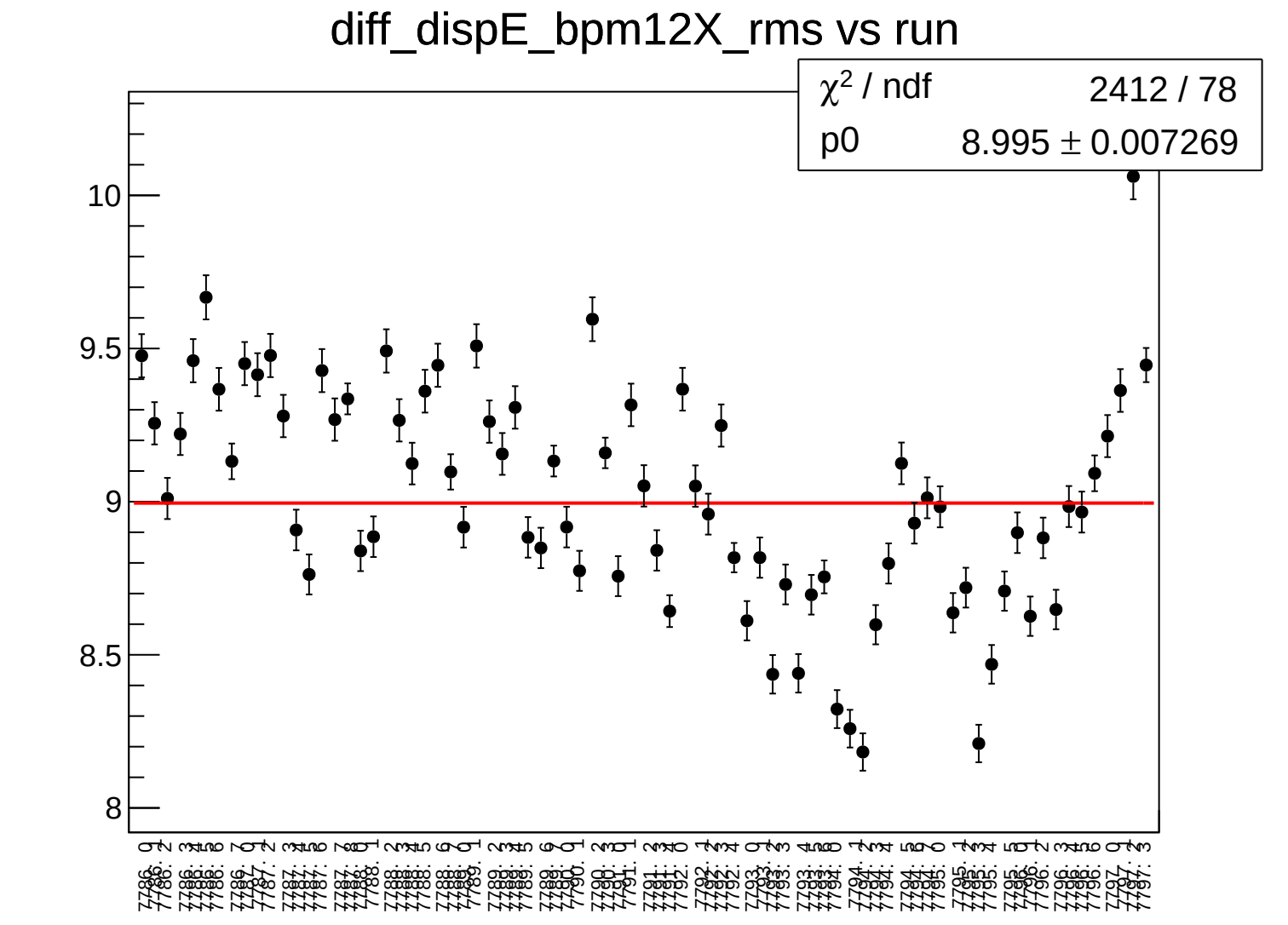

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 80.6 / 78
p0 0.09326 ± 1.054
pull
Entries 79
Mean −35.57
Std Dev 25.9

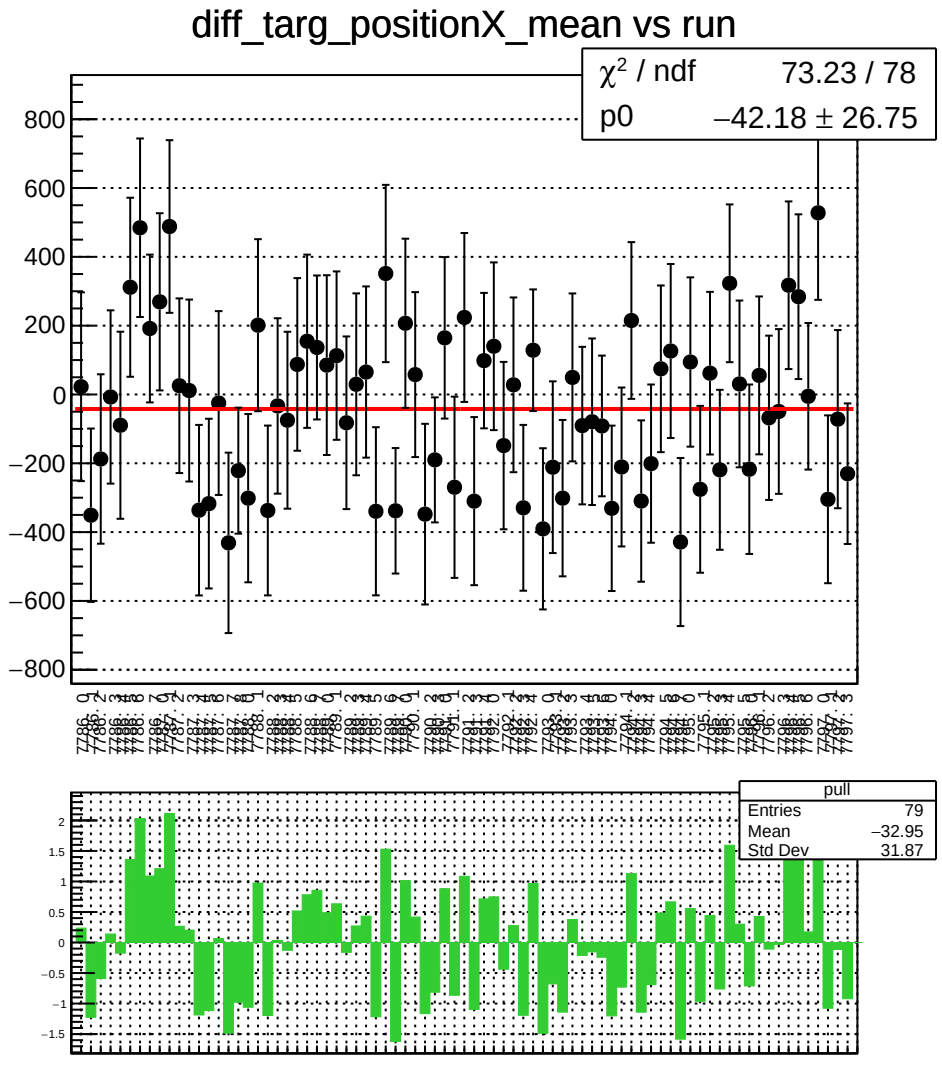

pull1D
Entries 79
Mean 0.001419
Std Dev 1.01

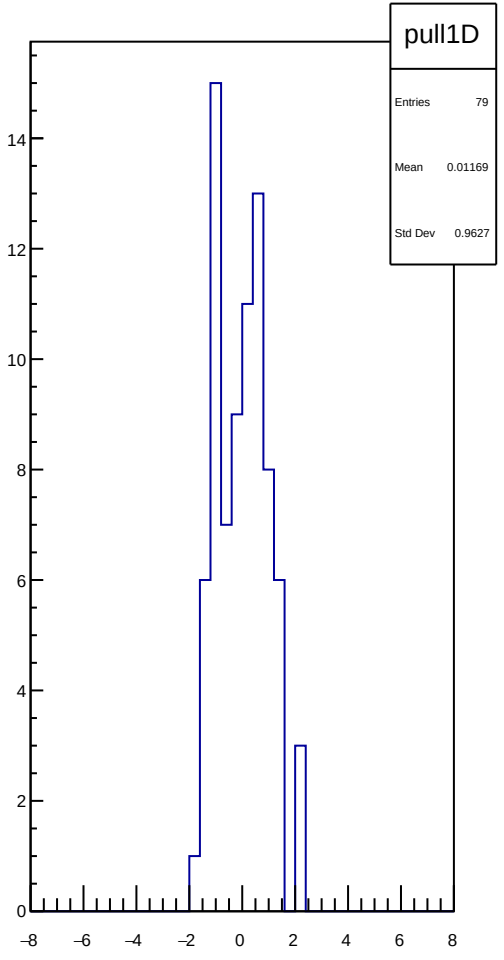

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 682.7 / 78
p0 923.1 ± 0.7455
980
960
940
920
900
880

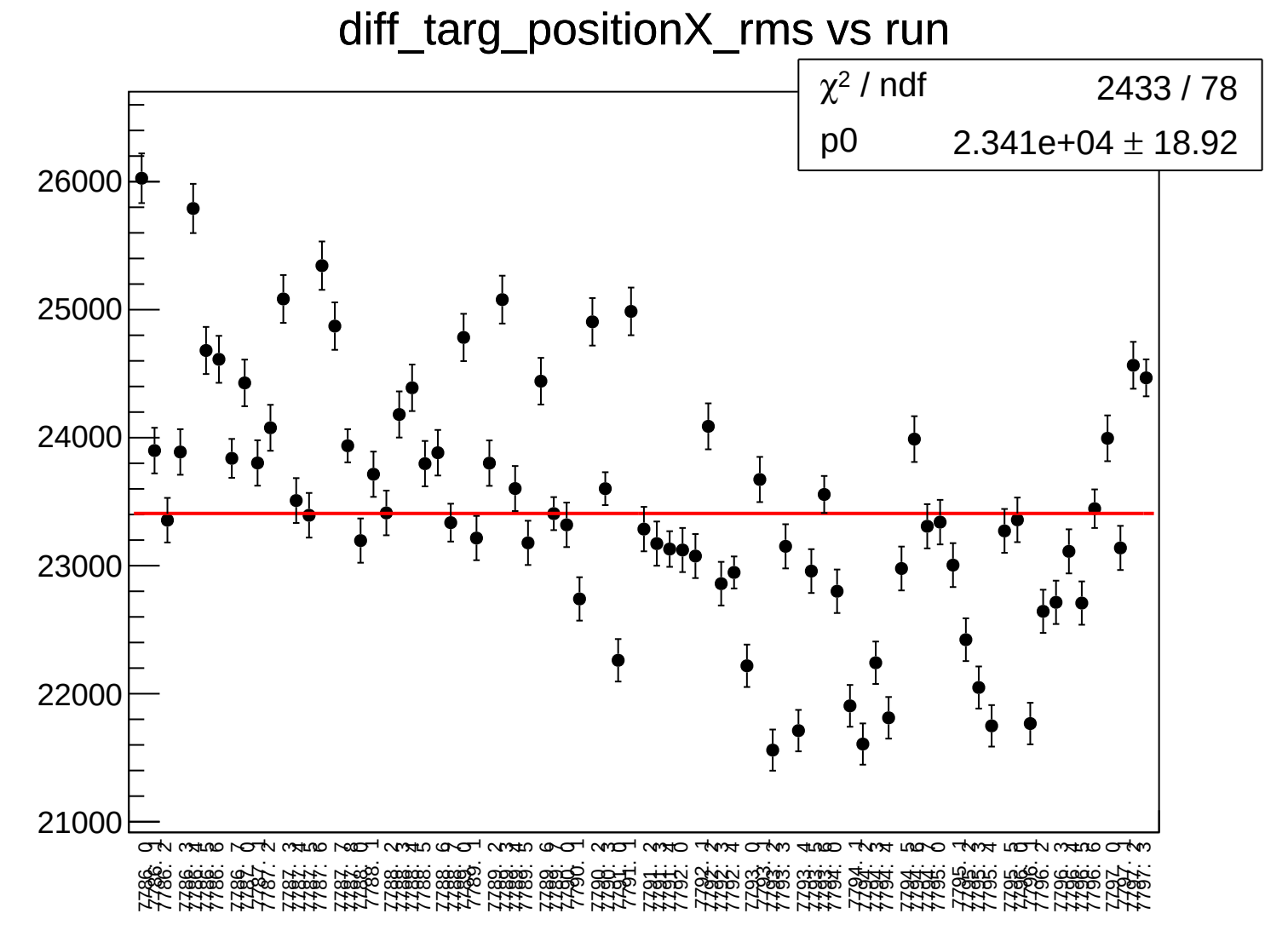

diff_dispE_bpm12X_mean vs run
χ² / ndf 77.01 / 78
p0 −0.0006627 ± 0.01028
pull
Entries 79
Mean −364.3
Std Dev 0

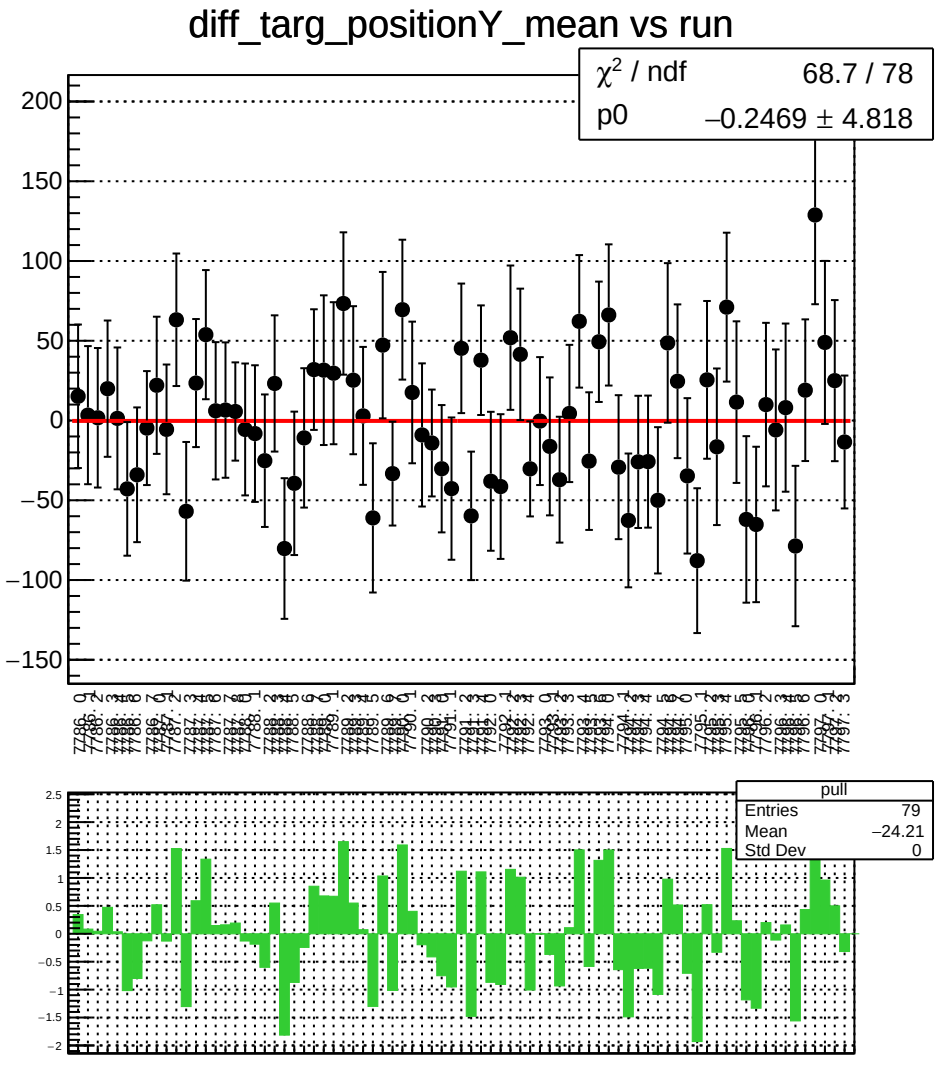

pull1D
Entries 79
Mean −0.01207
Std Dev 0.9873

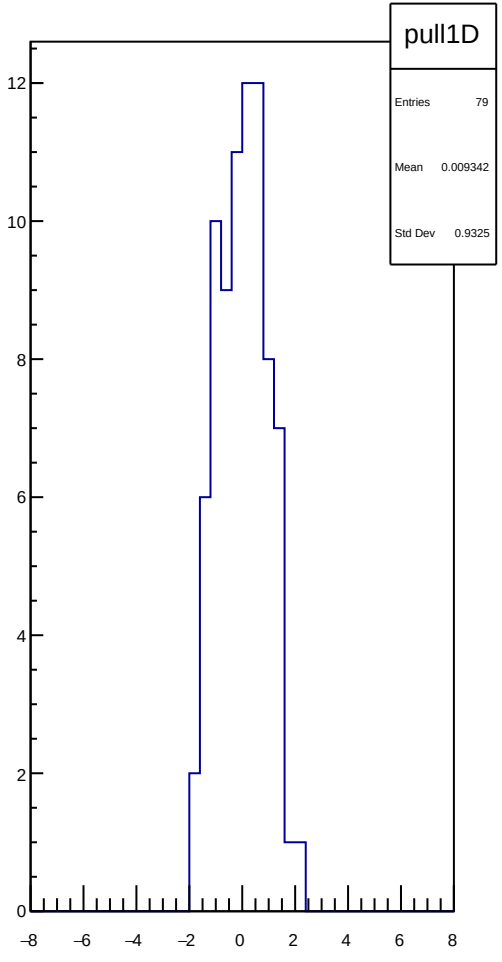

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 2412 / 78
p0 8.995 ± 0.007269
10
9.5
9
8.5
8

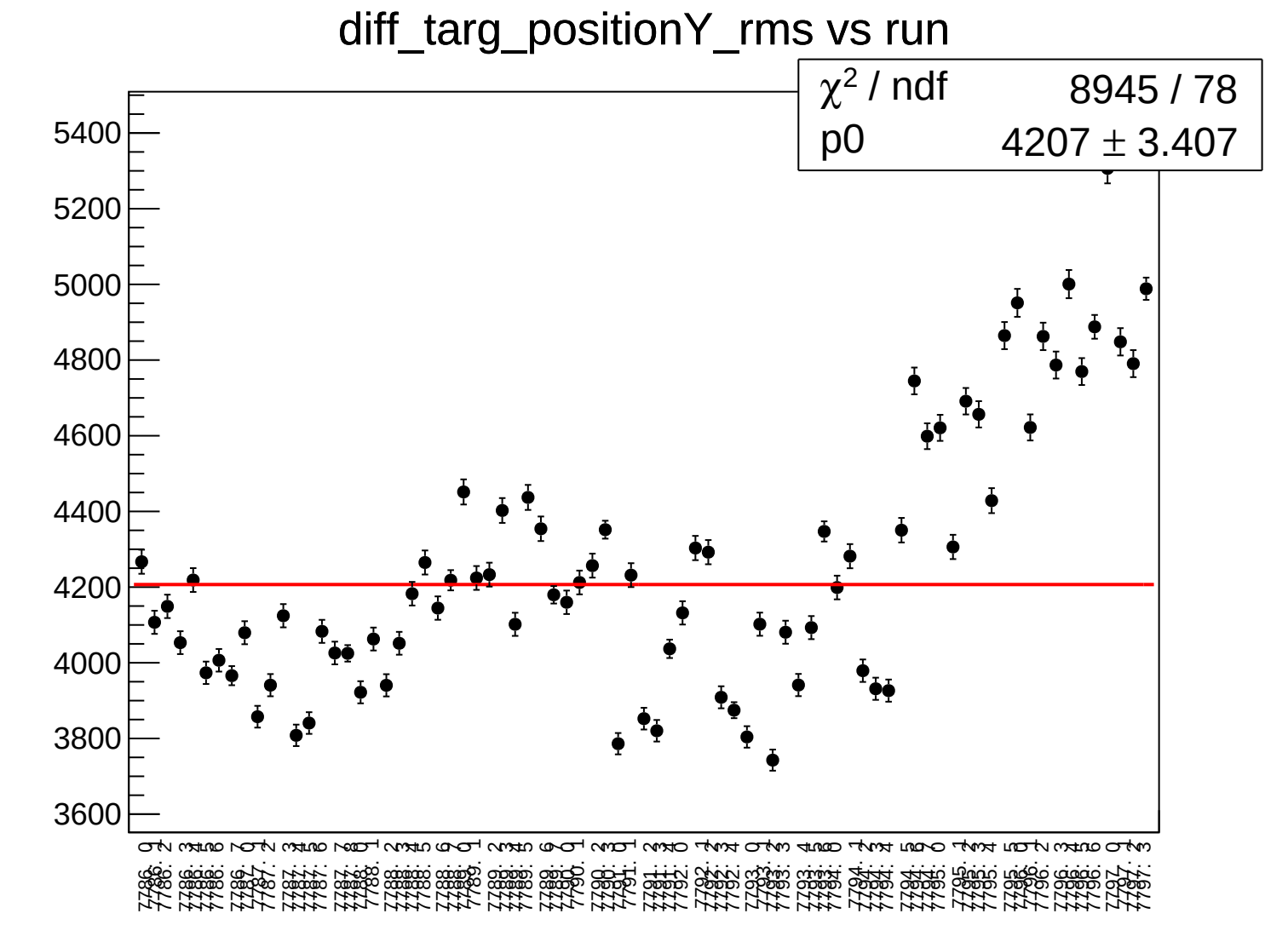

diff_targ_positionX_mean vs run
χ² / ndf 73.23 / 78
p0 −42.18 ± 26.75
pull
Entries 79
Mean −32.95
Std Dev 31.87

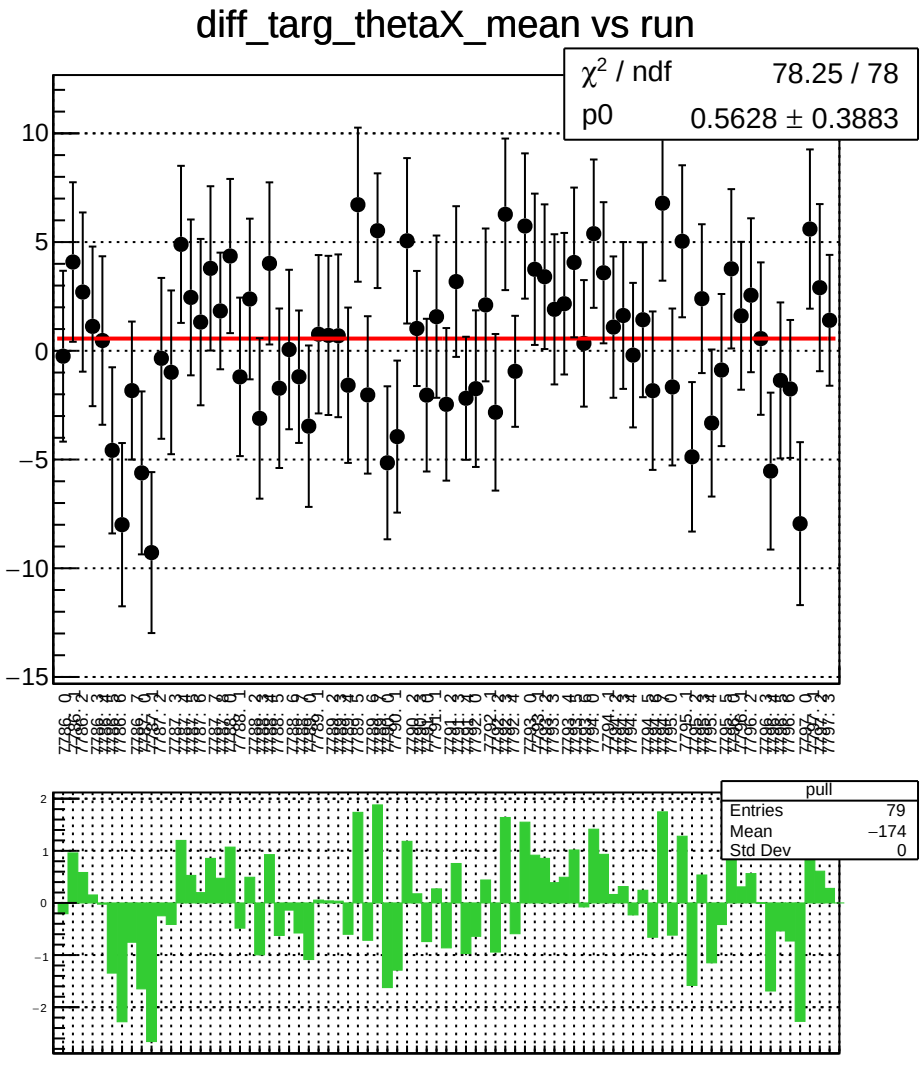

pull1D
Entries 79
Mean 0.01169
Std Dev 0.9627

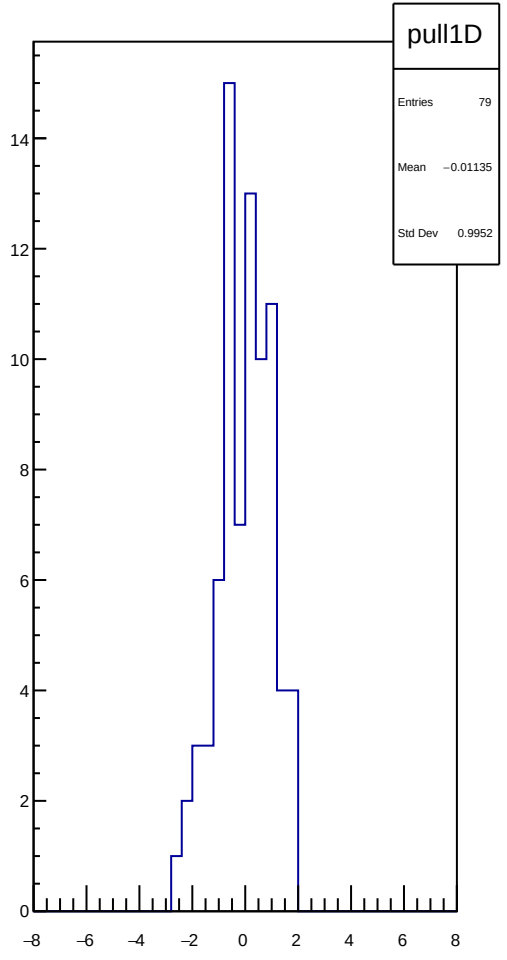

diff_targ_positionX_rms vs run
χ² / ndf 2433 / 78
p0 2.341e+04 ± 18.92
26000
25000
24000
23000
22000
21000

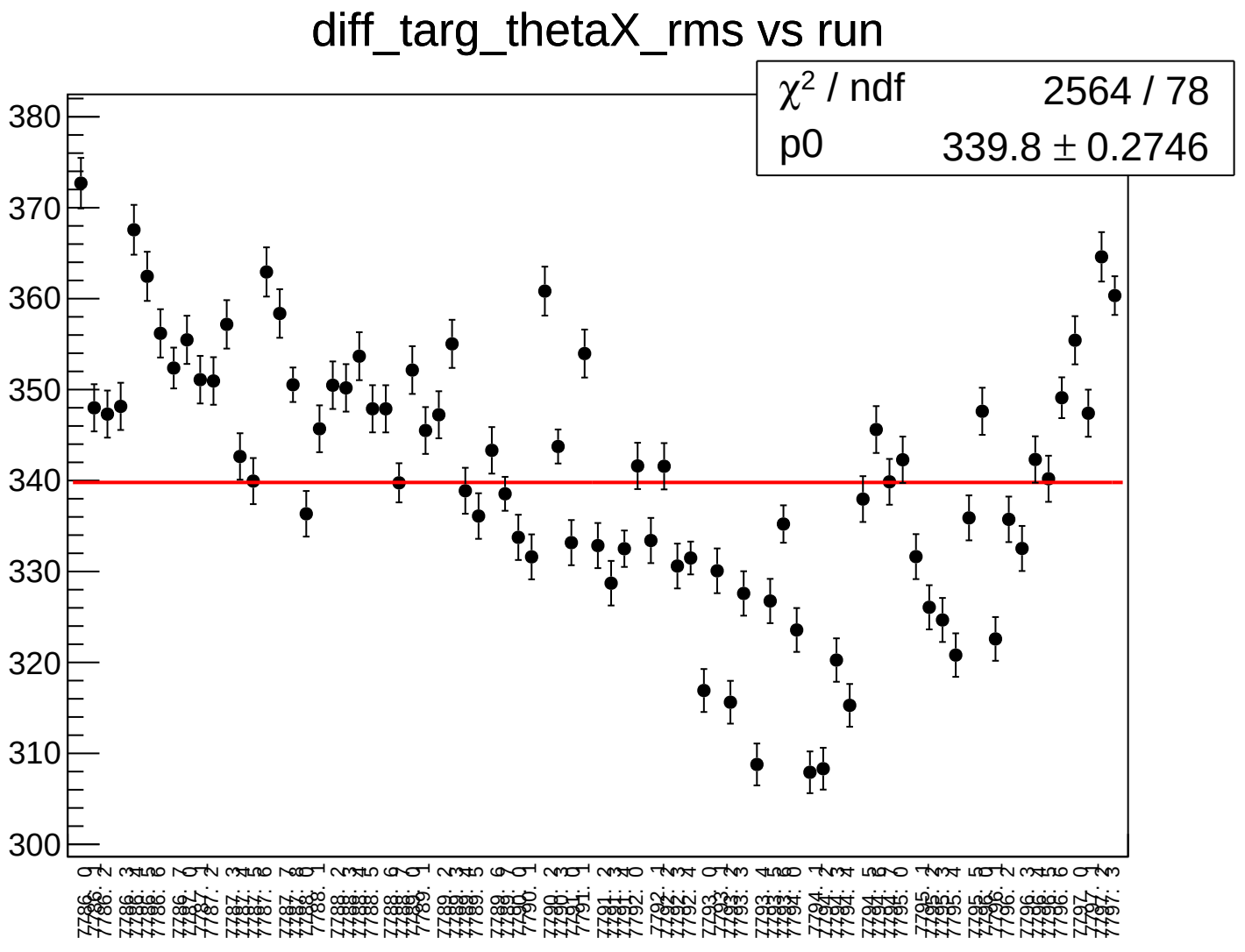

diff_targ_positionY_mean vs run
χ² / ndf 68.7 / 78
p0 −0.2469 ± 4.818
pull
Entries 79
Mean −24.21
Std Dev 0

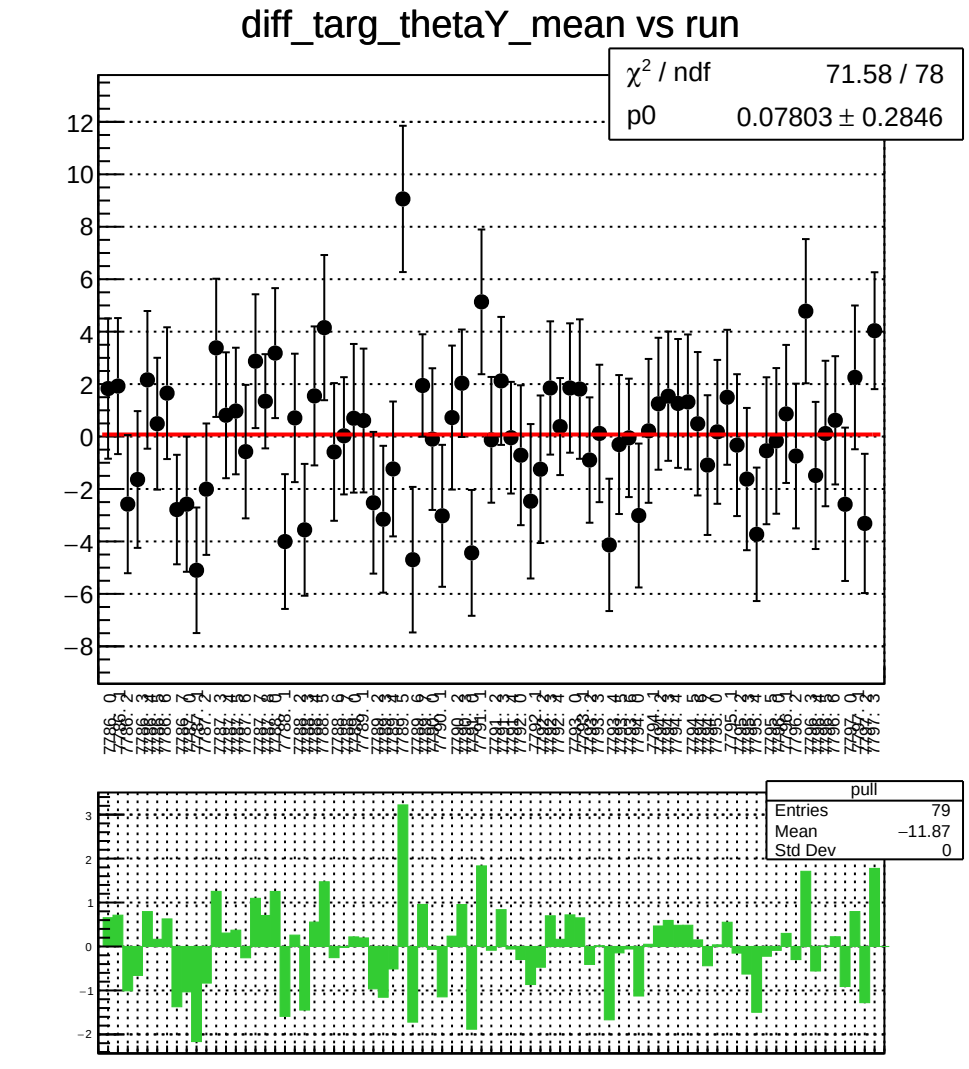

pull1D
Entries 79
Mean 0.009342
Std Dev 0.9325

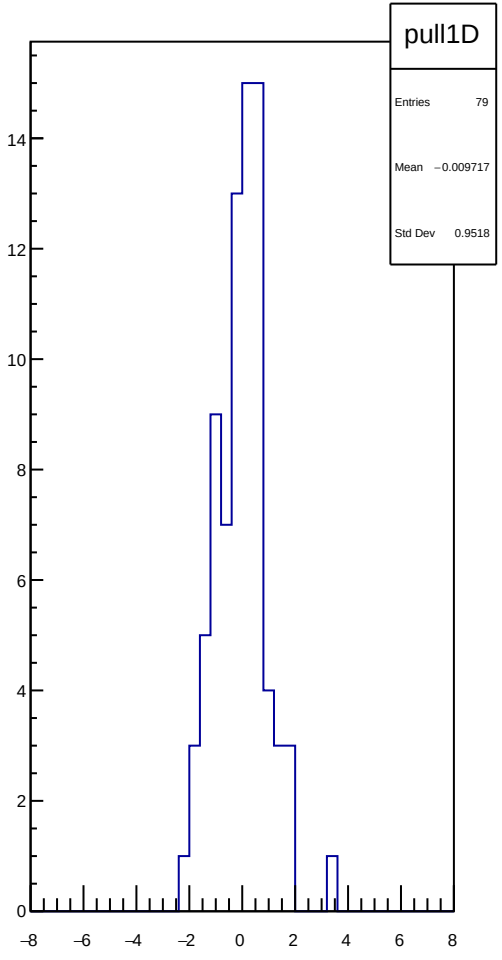

diff_targ_positionY_rms vs run
χ^2 / ndf 8945 / 78
p0 4207 ± 3.407
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

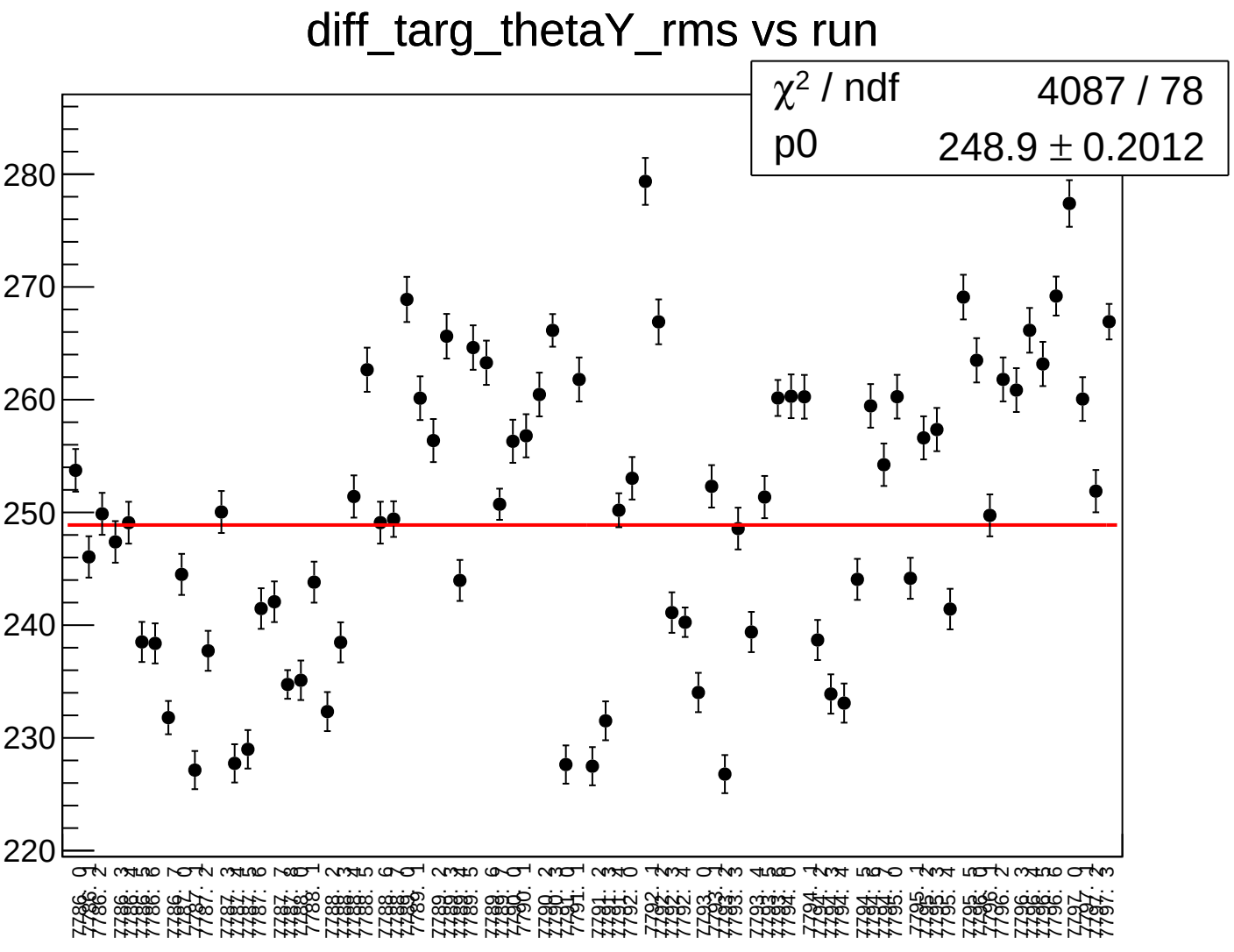

diff_targ_thetaX_mean vs run
χ² / ndf 78.25 / 78
p0 0.5628 ± 0.3883
pull
Entries 79
Mean −174
Std Dev 0

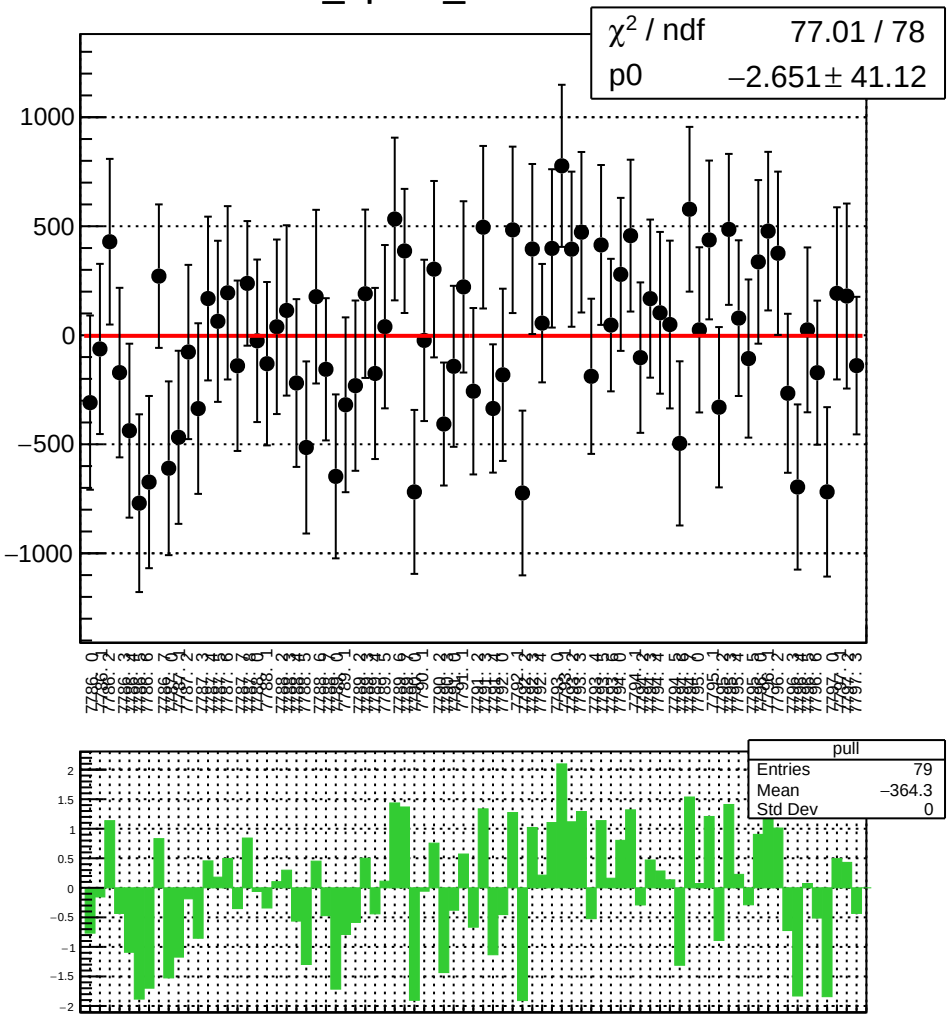

pull1D
Entries 79
Mean −0.01135
Std Dev 0.9952

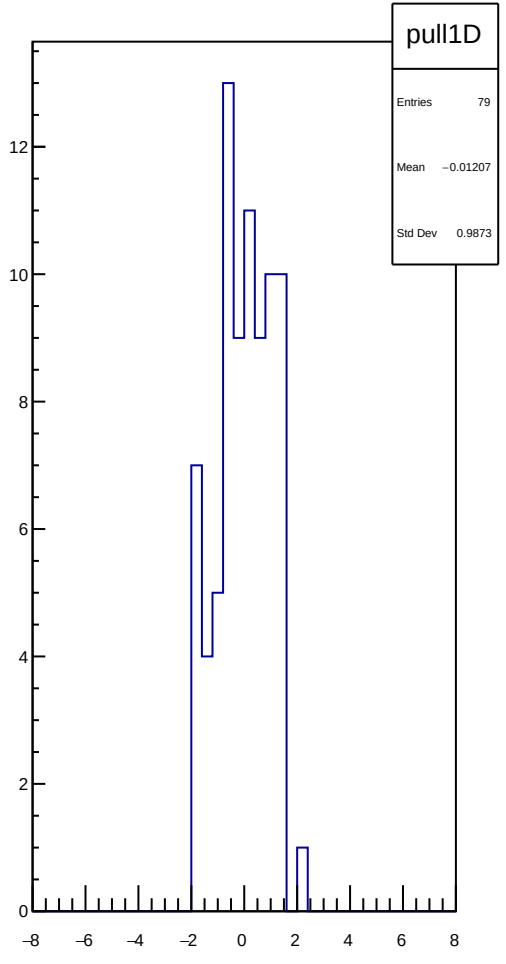

diff_targ_thetaX_rms vs run
χ² / ndf 2564 / 78
p0 339.8 ± 0.2746
380
370
360
350
340
330
320
310
300

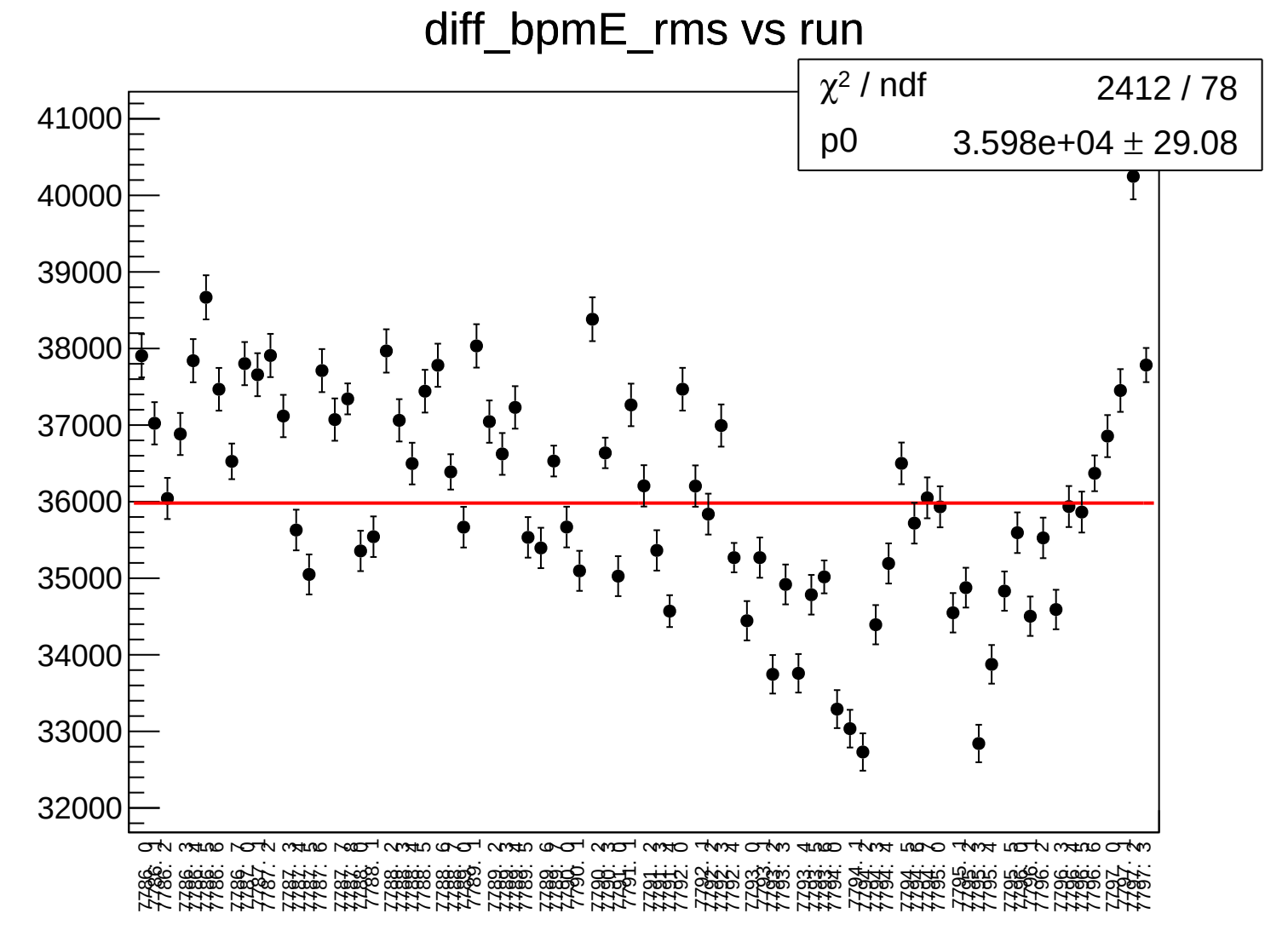

diff_targ_thetaY_mean vs run
χ² / ndf 71.58 / 78
p0 0.07803 ± 0.2846
pull
Entries 79
Mean −11.87
Std Dev 0

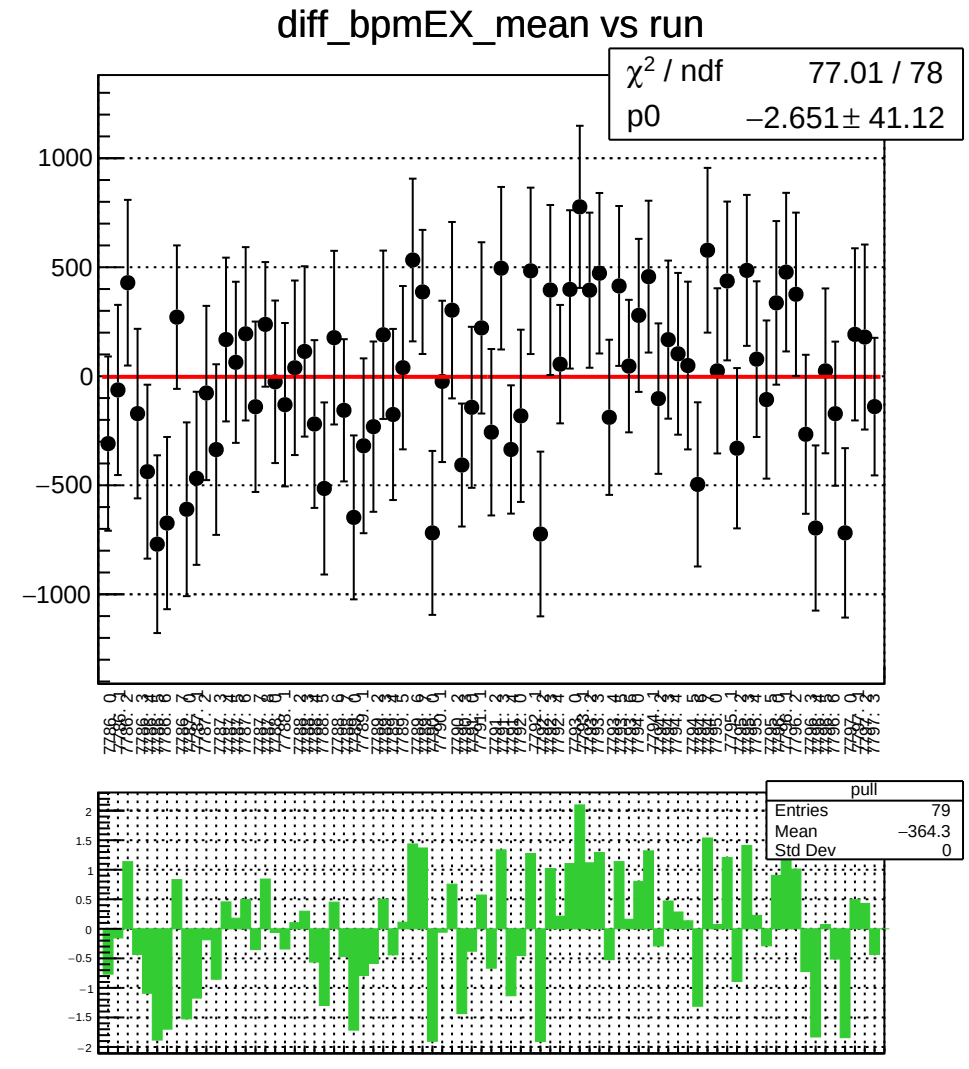

pull1D
Entries 79
Mean −0.009717
Std Dev 0.9518

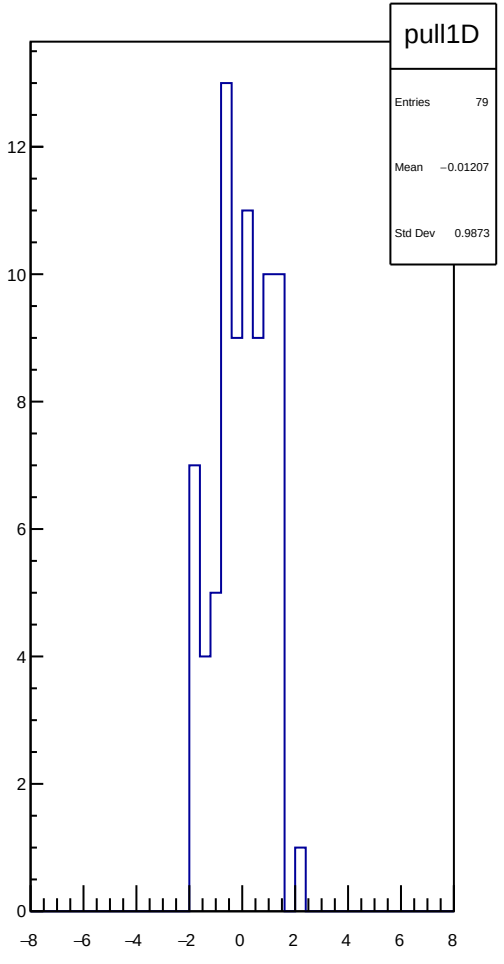

diff_targ_thetaY_rms vs run
χ^2 / ndf 4087 / 78
p0 248.9 ± 0.2012
280
270
260
250
240
230
220

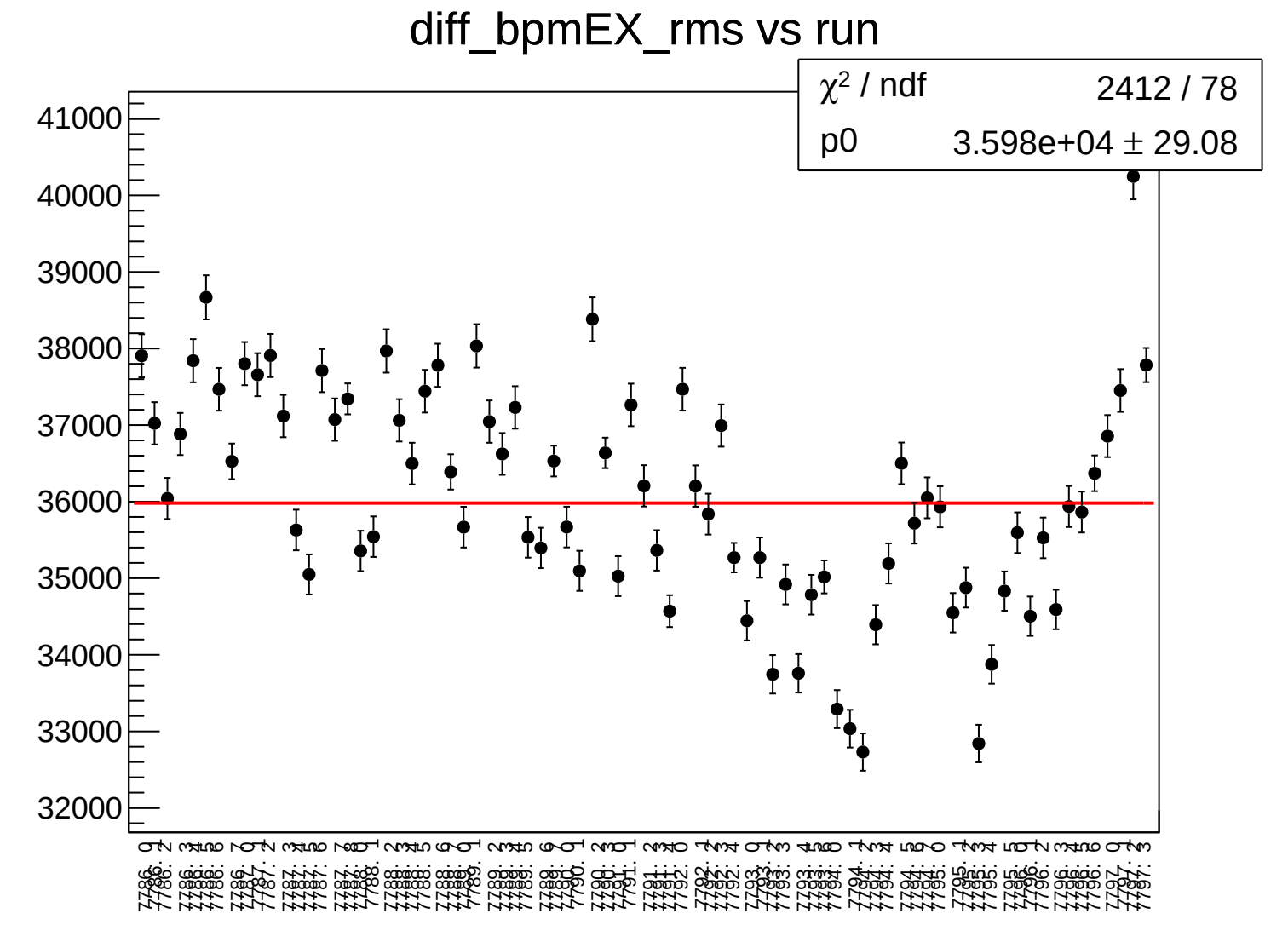

diff_bpmE_mean vs run
χ² / ndf 77.01 / 78
p0 −2.651 ± 41.12
1000
500
0
−500
−1000
pull
Entries 79
Mean −364.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

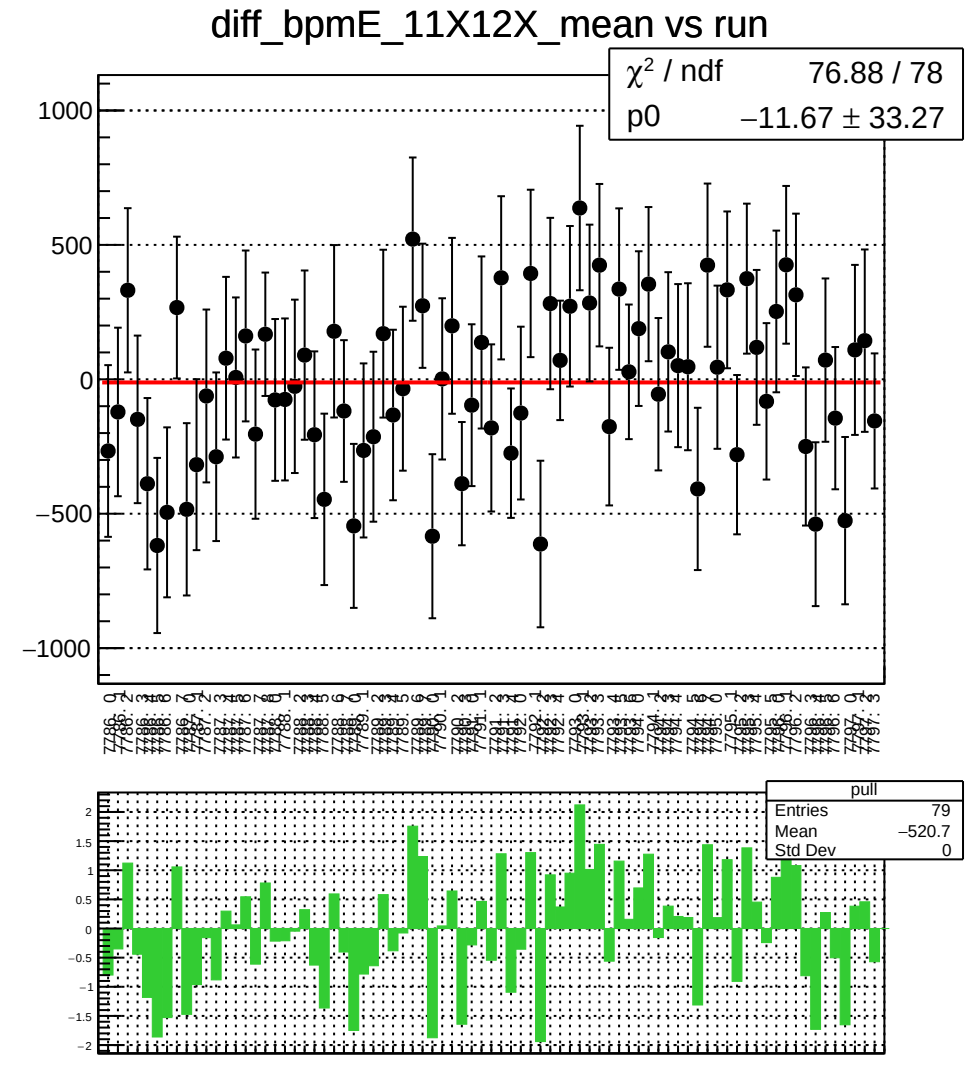

pull1D
Entries 79
Mean −0.01207
Std Dev 0.9873
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

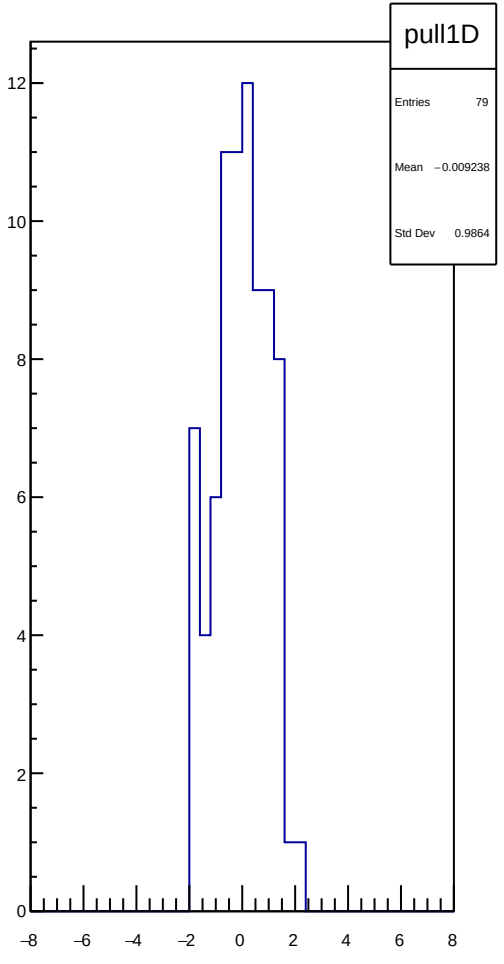

diff_bpmE_rms vs run
χ² / ndf 2412 / 78
p0 3.598e+04 ± 29.08
41000
40000
39000
38000
37000
36000
35000
34000
33000
32000

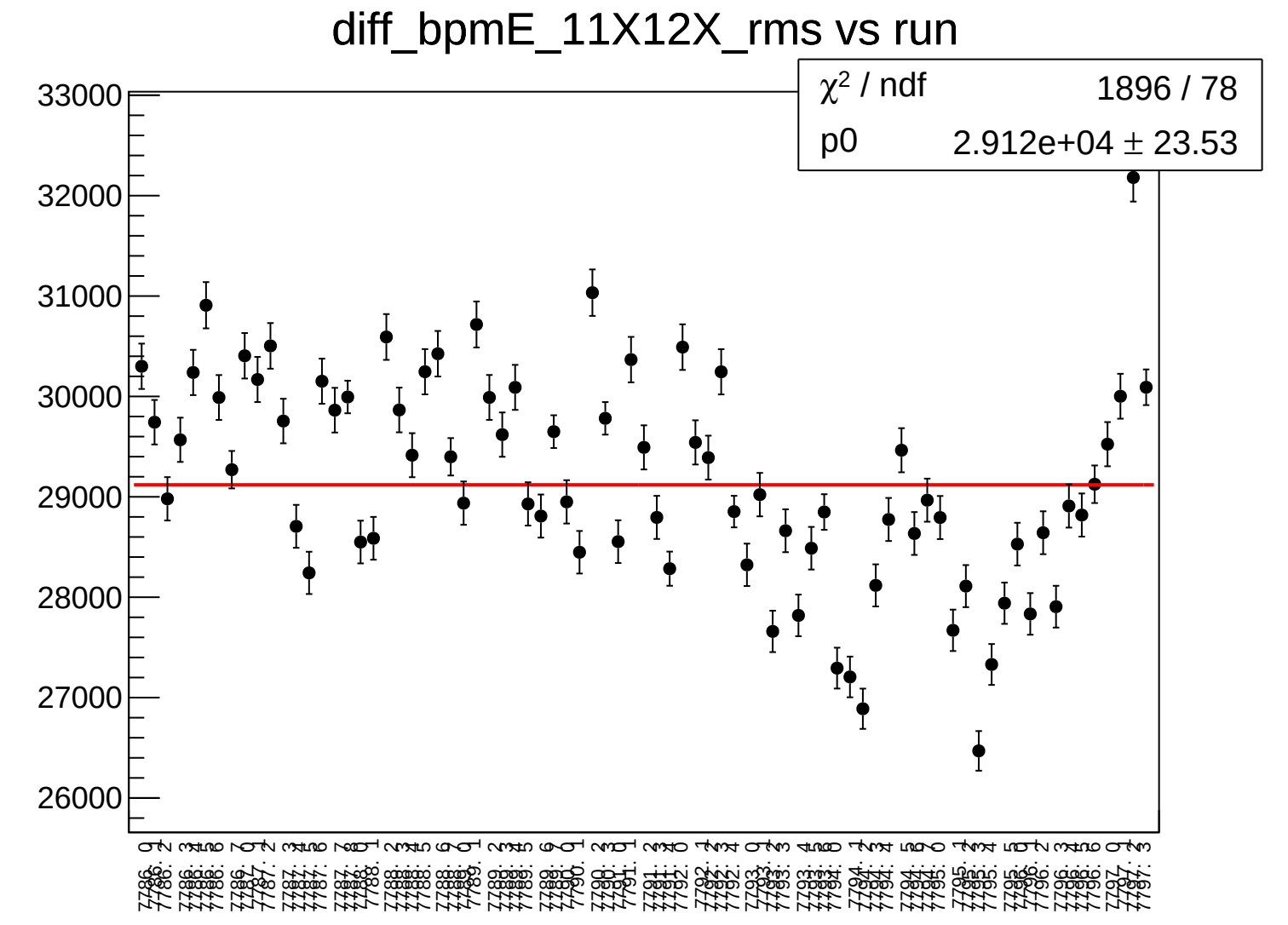

diff_bpmEX_mean vs run
χ² / ndf 77.01 / 78
p0 −2.651 ± 41.12
1000
500
0
−500
−1000
pull
Entries 79
Mean −364.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

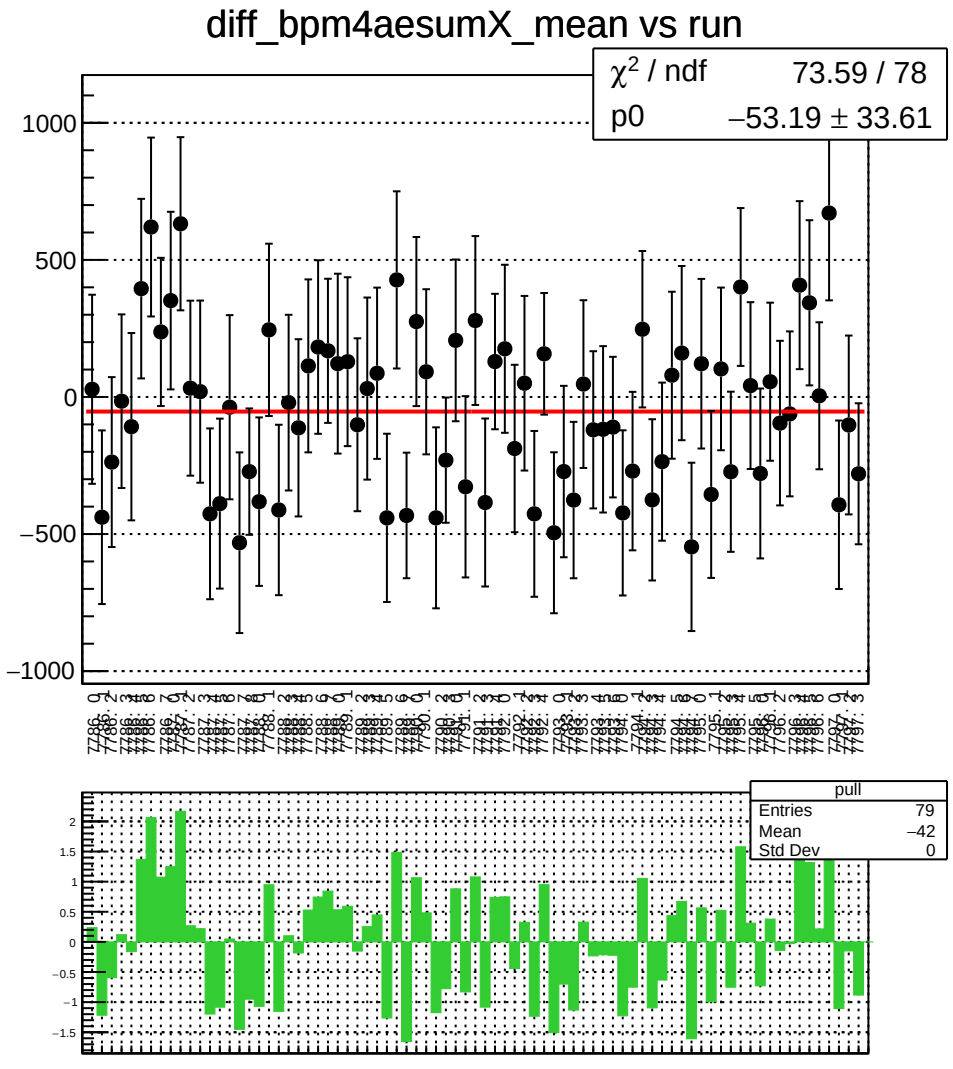

pull1D
Entries 79
Mean −0.01207
Std Dev 0.9873
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

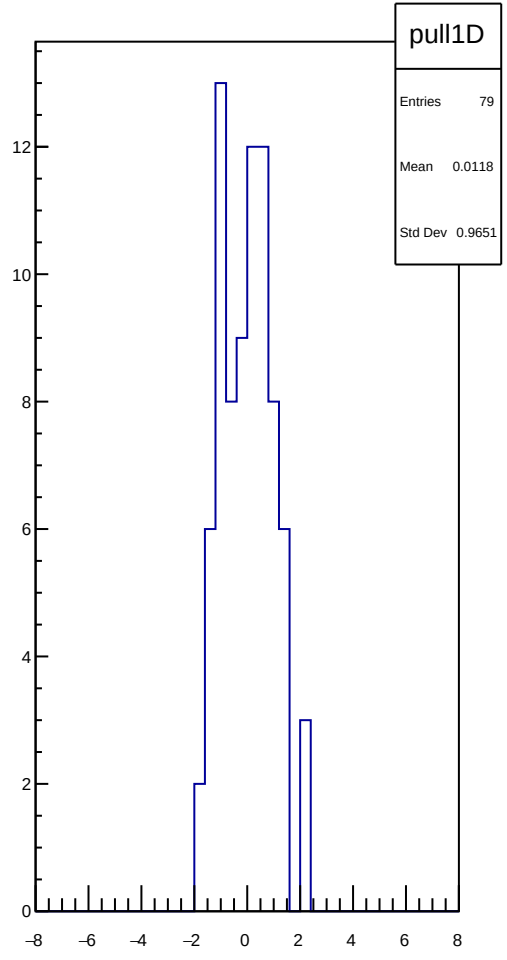

diff_bpmEX_rms vs run
χ² / ndf 2412 / 78
p0 3.598e+04 ± 29.08
41000
40000
39000
38000
37000
36000
35000
34000
33000
32000

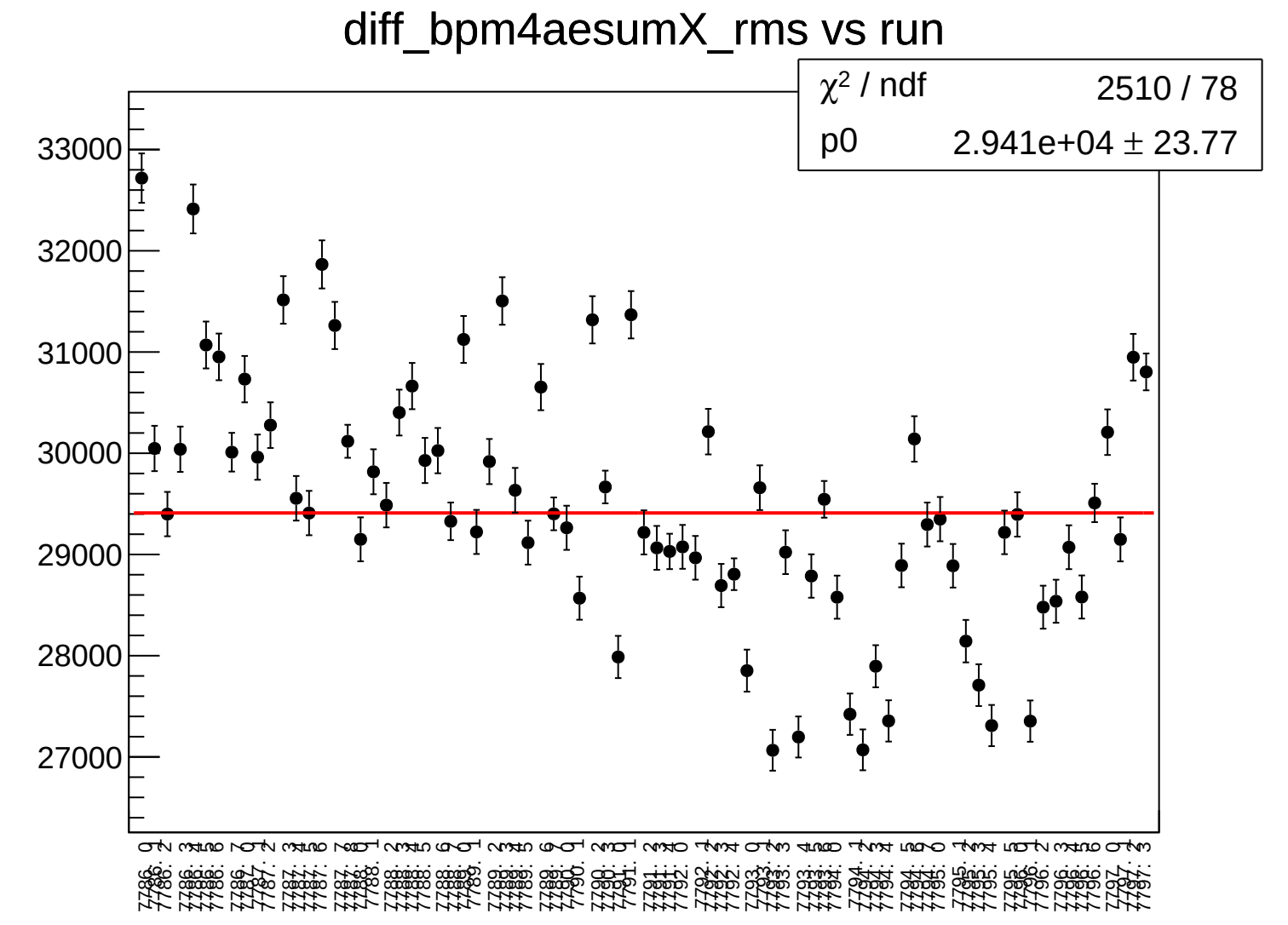

diff_bpmE_11X12X_mean vs run
χ² / ndf 76.88 / 78
p0 −11.67 ± 33.27
1000
500
0
−500
−1000
pull
Entries 79
Mean −520.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

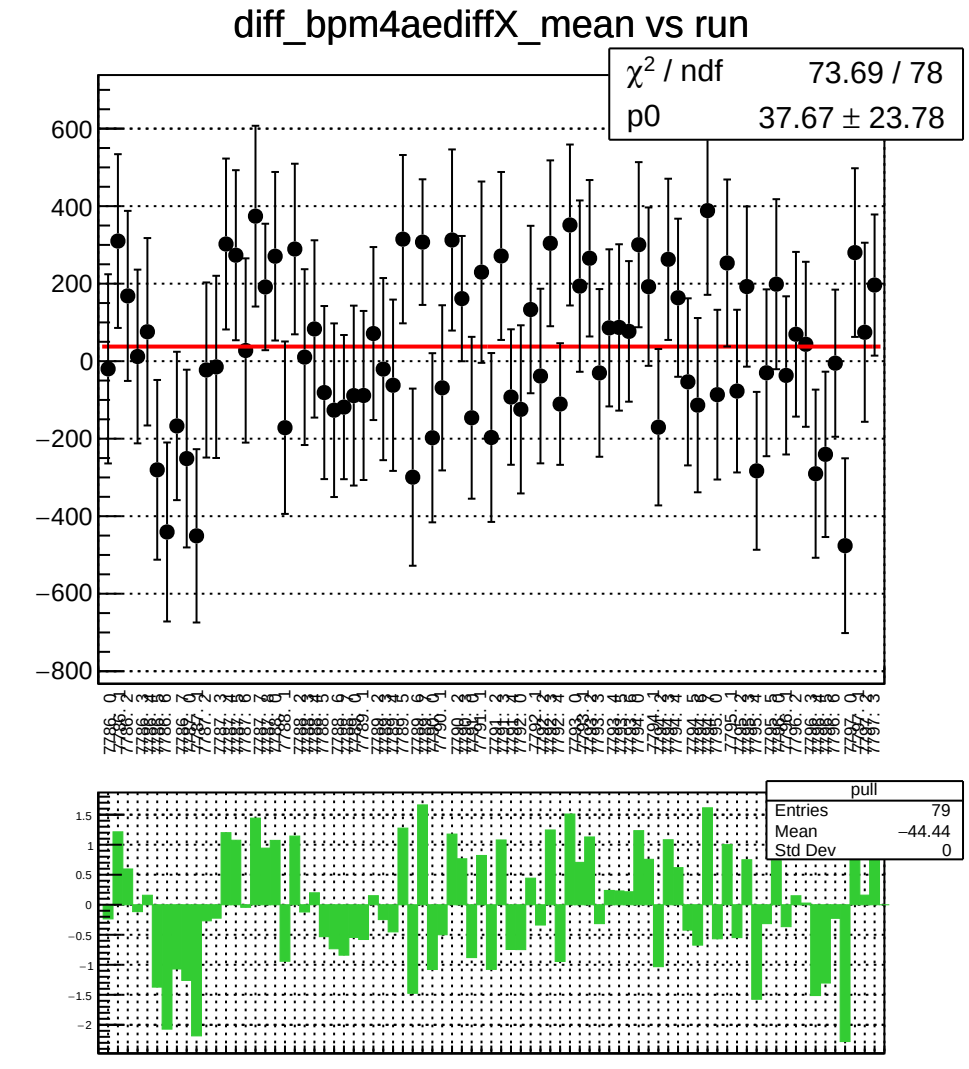

pull1D
Entries 79
Mean −0.009238
Std Dev 0.9864
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

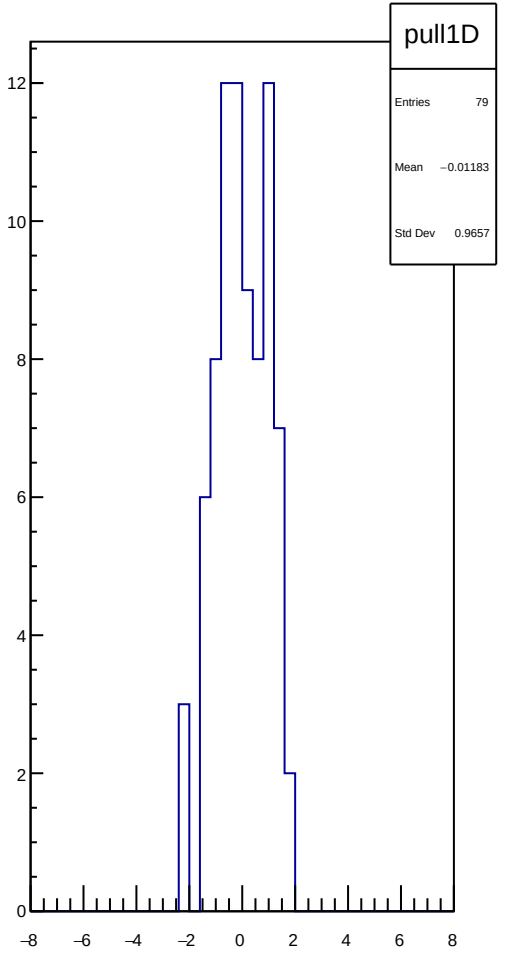

diff_bpmE_11X12X_rms vs run
χ² / ndf 1896 / 78
p0 2.912e+04 ± 23.53
33000
32000
31000
30000
29000
28000
27000
26000

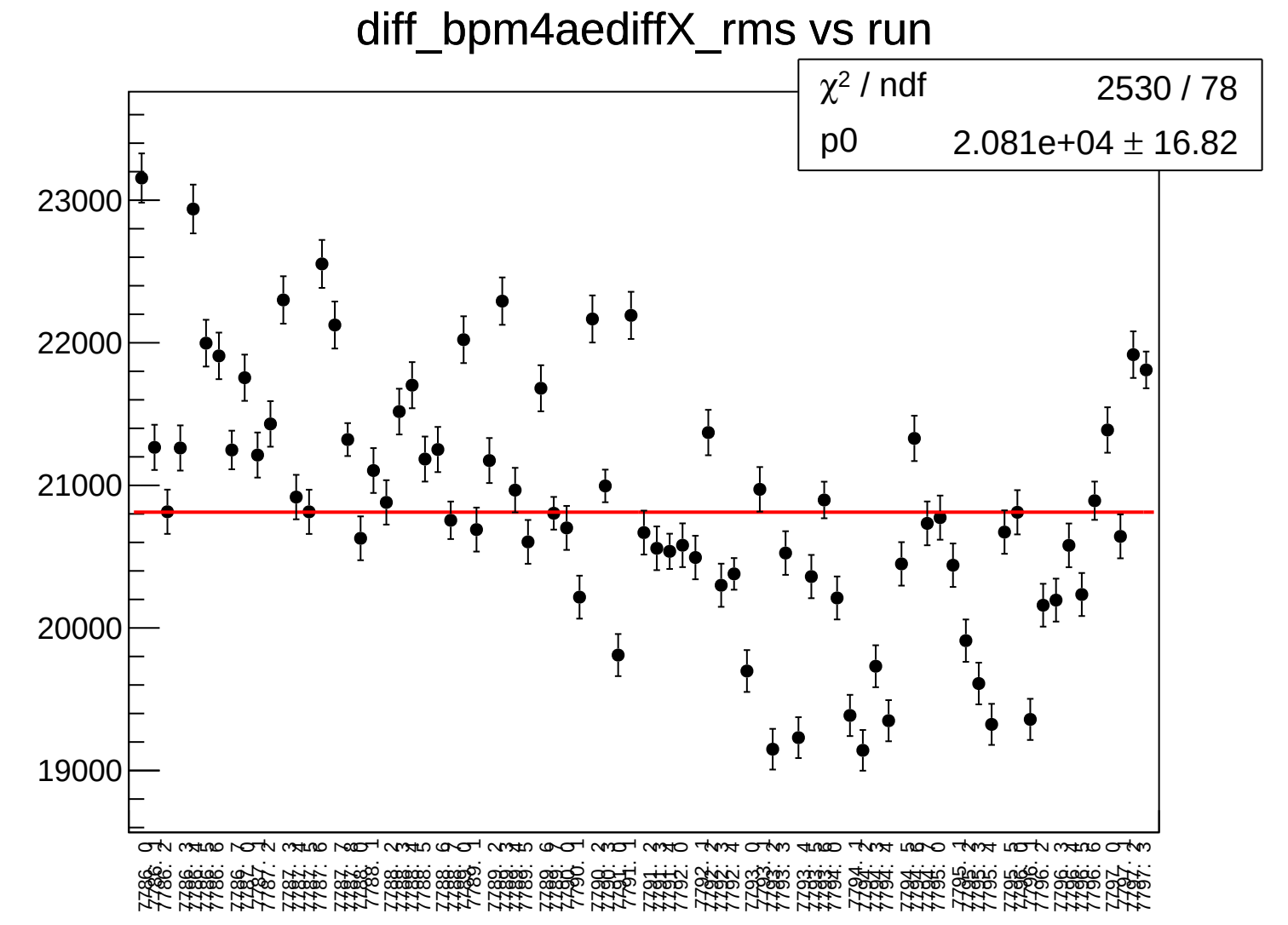

diff_bpm4aesumX_mean vs run
χ^2 / ndf 73.59 / 78
p0 −53.19 ± 33.61
1000
500
0
−500
−1000
pull
Entries 79
Mean −42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

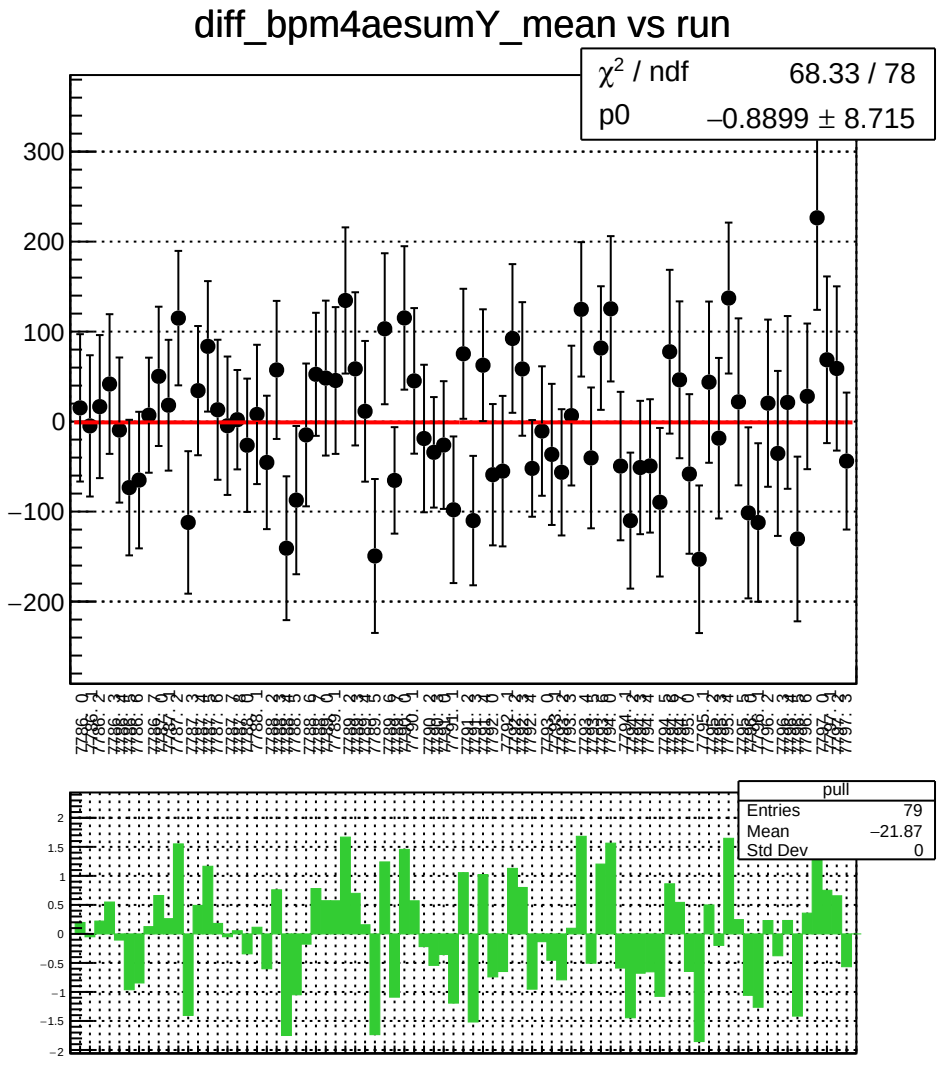

pull1D
Entries 79
Mean 0.0118
Std Dev 0.9651
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

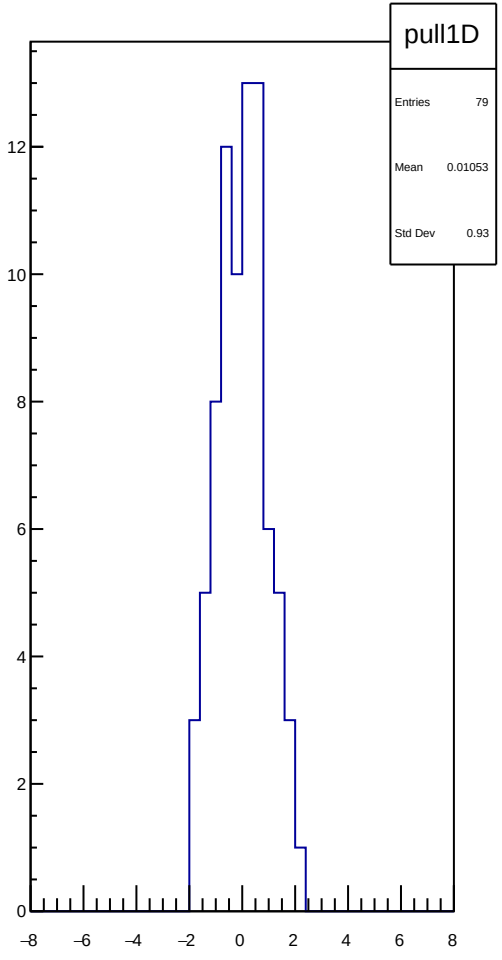

diff_bpm4aesumX_rms vs run
χ² / ndf 2510 / 78
p0 2.941e+04 ± 23.77
33000
32000
31000
30000
29000
28000
27000

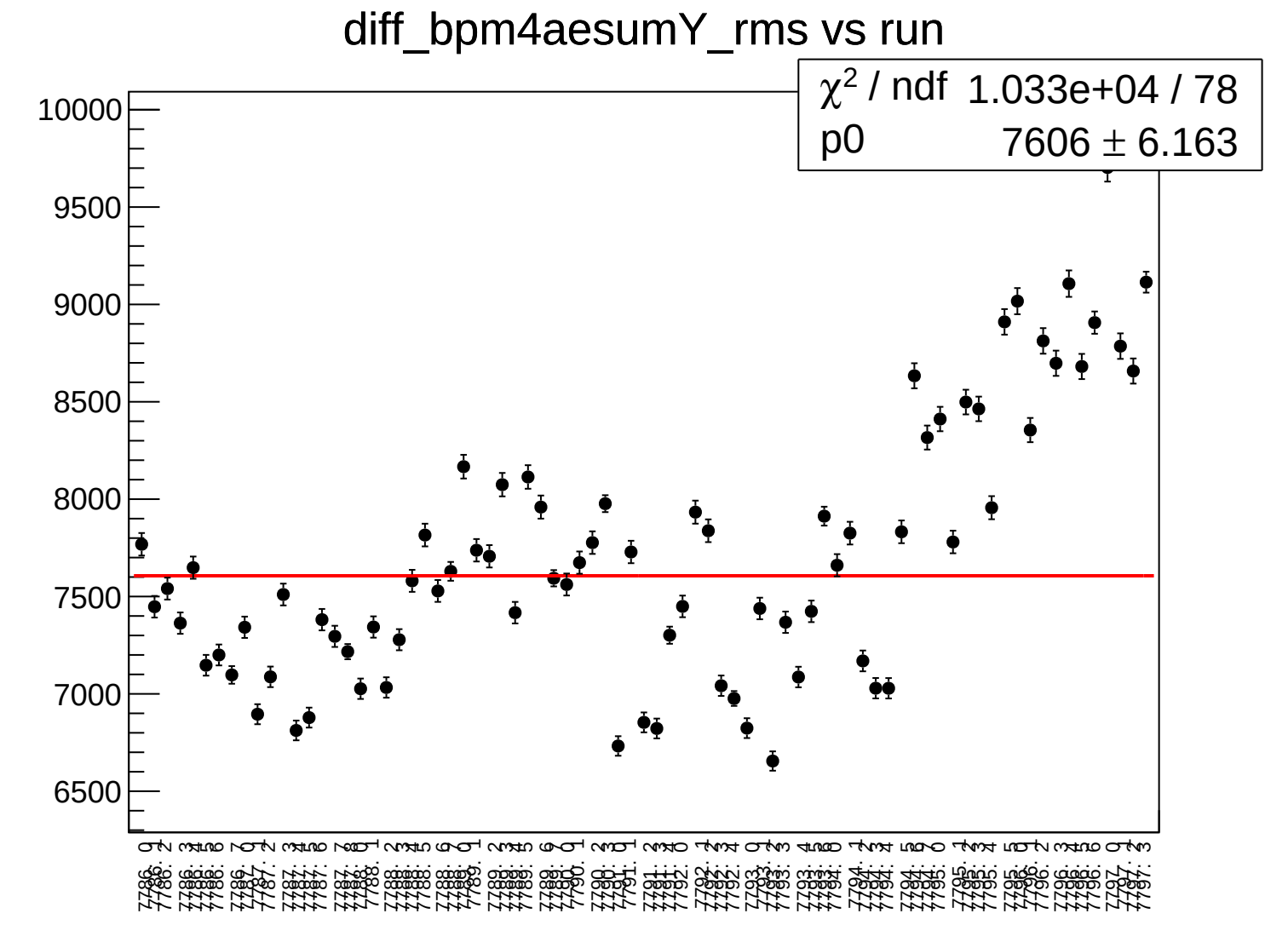

diff_bpm4aediffX_mean vs run
χ² / ndf 73.69 / 78
p0 37.67 ± 23.78
pull
Entries 79
Mean −44.44
Std Dev 0

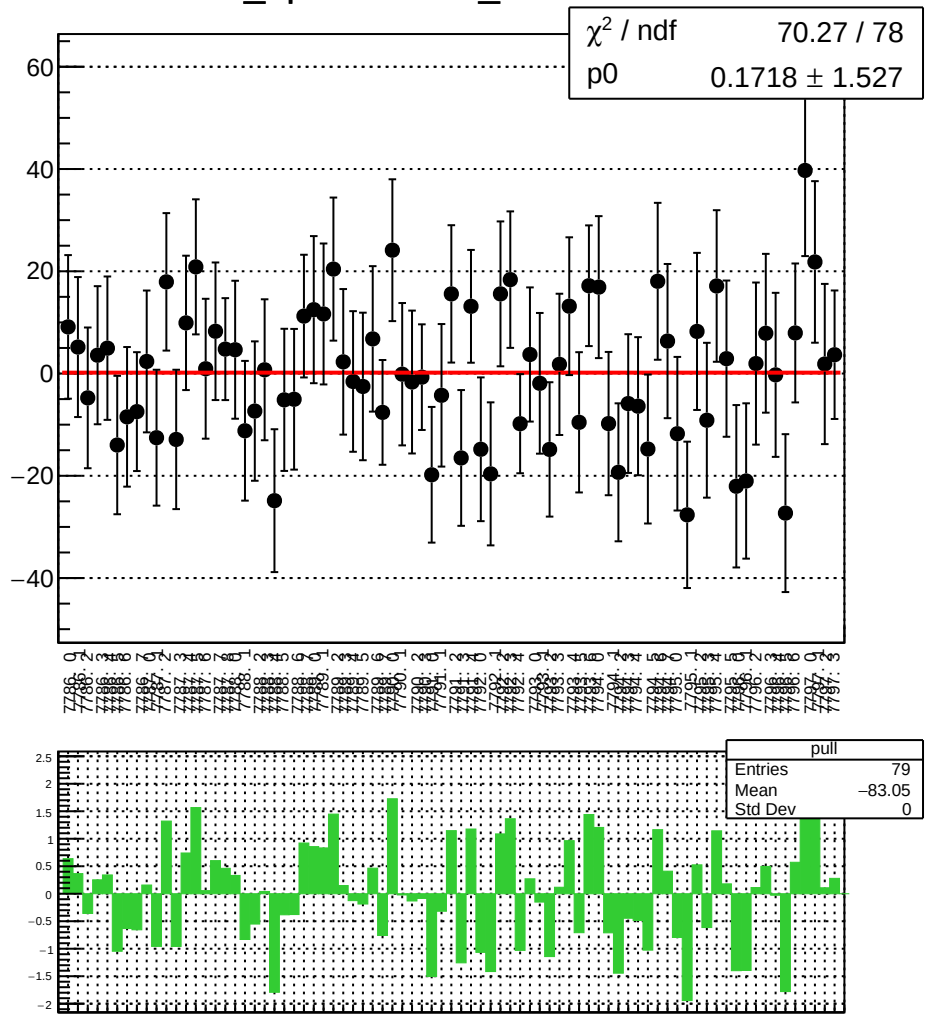

pull1D
Entries 79
Mean −0.01183
Std Dev 0.9657

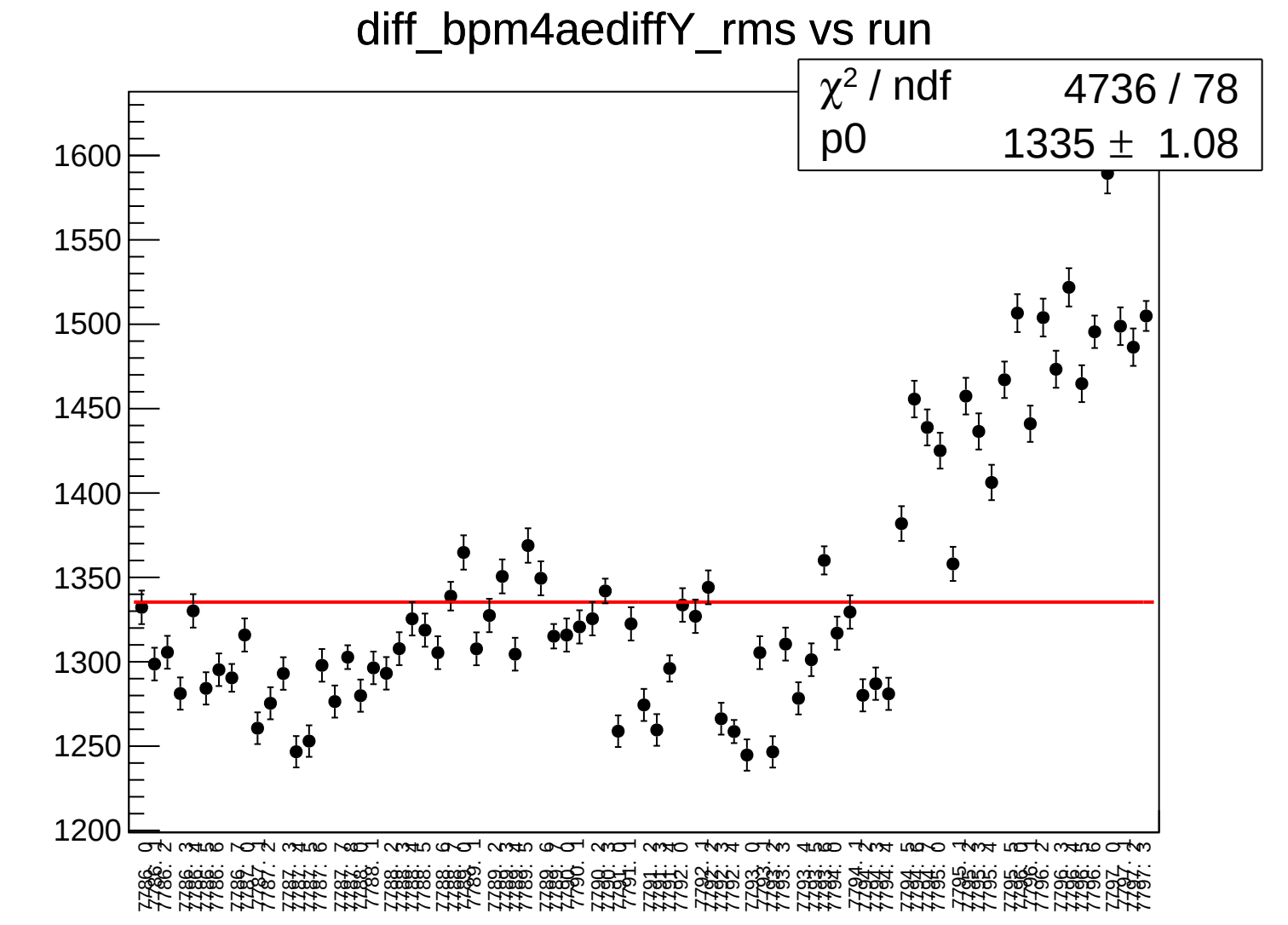

diff_bpm4aediffX_rms vs run
χ² / ndf 2530 / 78
p0 2.081e+04 ± 16.82
23000
22000
21000
20000
19000

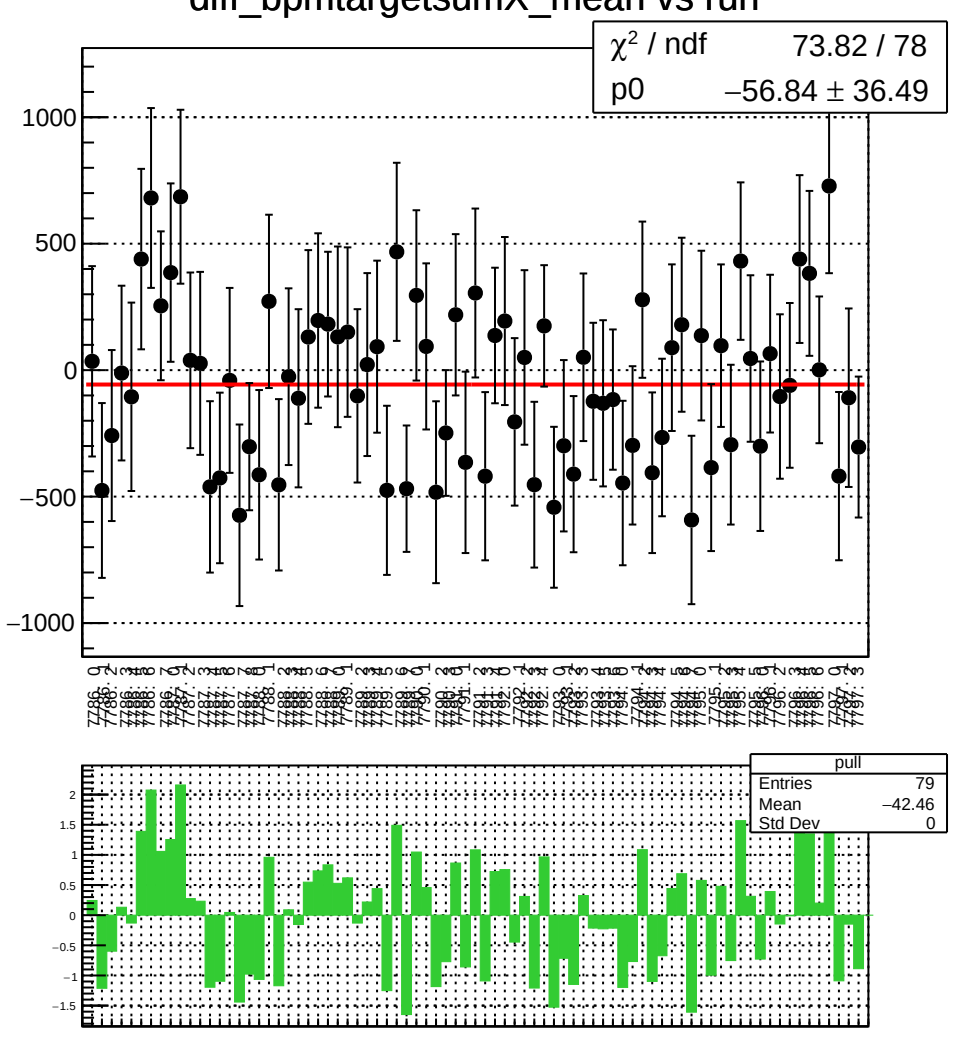

diff_bpm4aesumY_mean vs run
χ² / ndf 68.33 / 78
p0 −0.8899 ± 8.715
pull
Entries 79
Mean −21.87
Std Dev 0

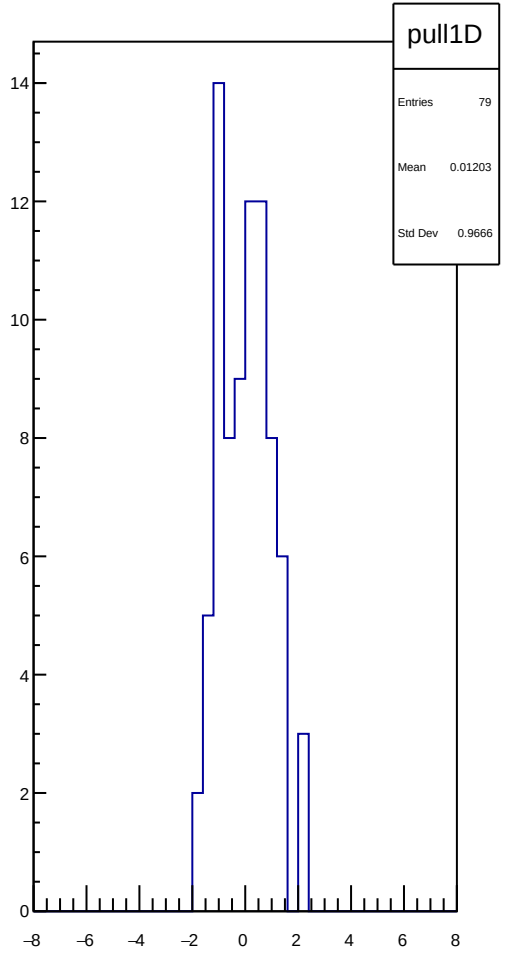

pull1D
Entries 79
Mean 0.01053
Std Dev 0.93

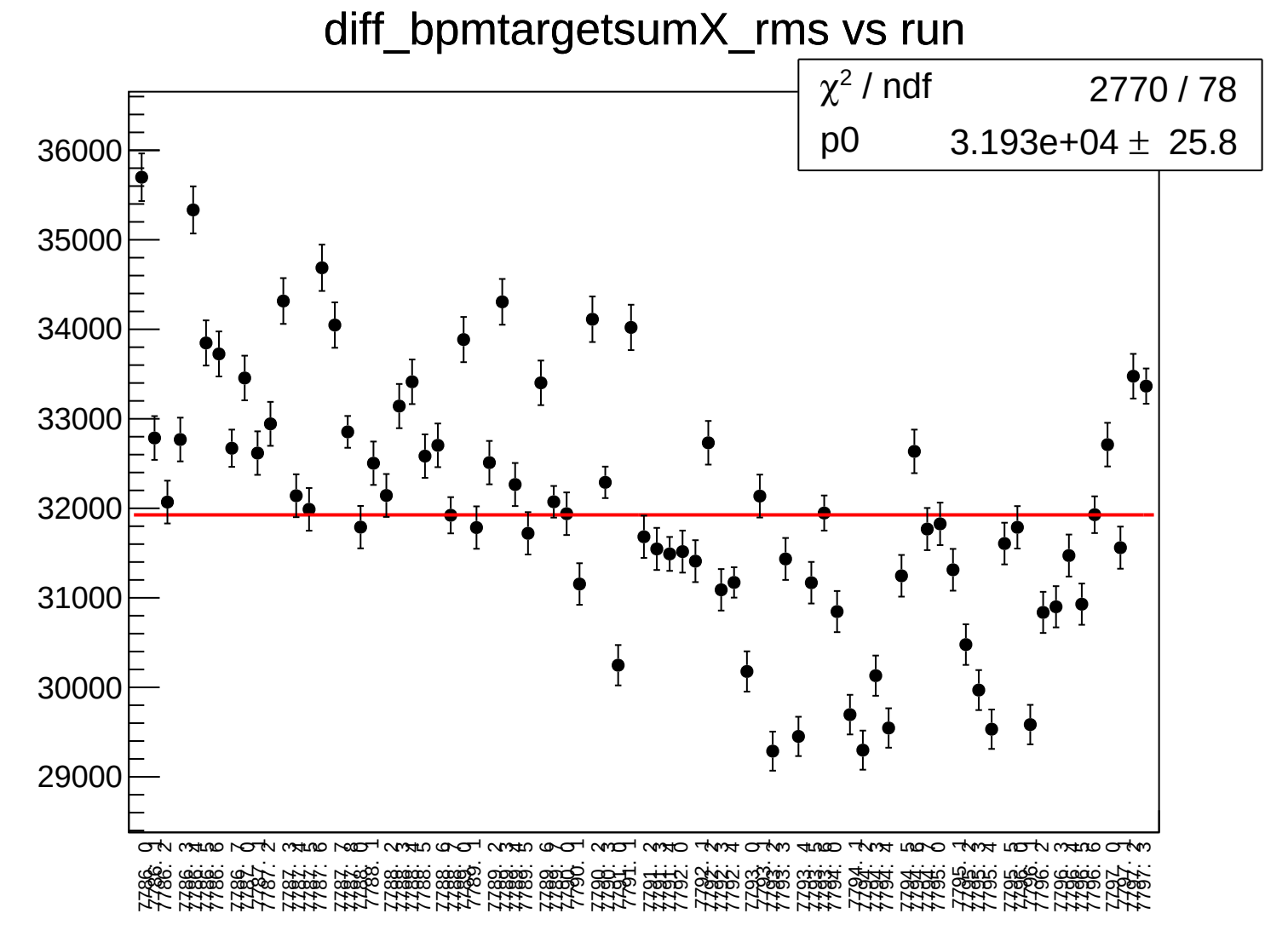

diff_bpm4aesumY_rms vs run
χ² / ndf 1.033e+04 / 78
p0 7606 ± 6.163
10000
9500
9000
8500
8000
7500
7000
6500

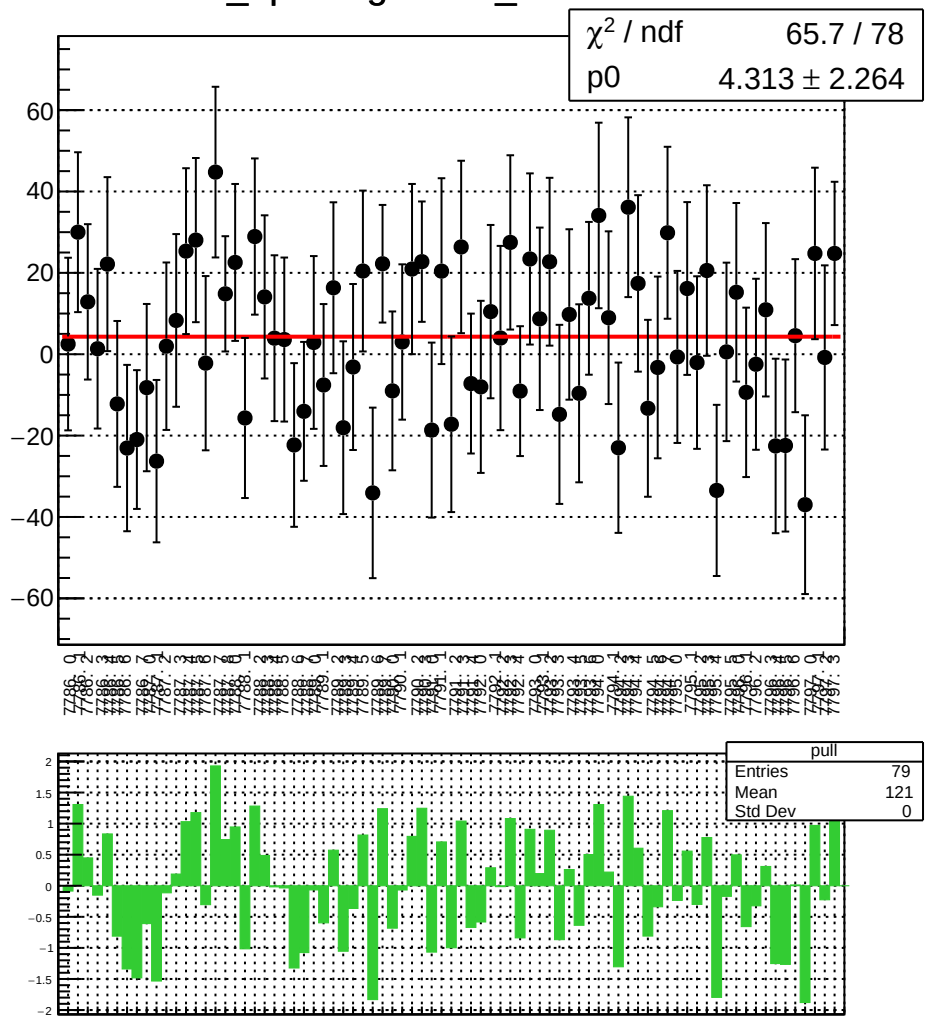

diff_bpm4aediffY_mean vs run
χ^2 / ndf 70.27 / 78
p0 0.1718 ± 1.527
pull
Entries 79
Mean −83.05
Std Dev 0
pull1D
Entries 79
Mean 0.0033
Std Dev 0.9431

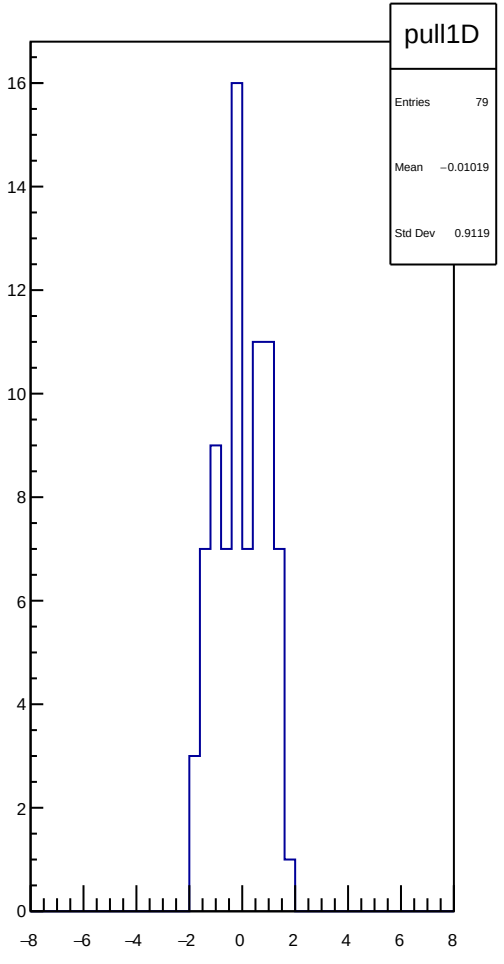

diff_bpm4aediffY_rms vs run
χ² / ndf 4736 / 78
p0 1335 ± 1.08
1600
1550
1500
1450
1400
1350
1300
1250
1200

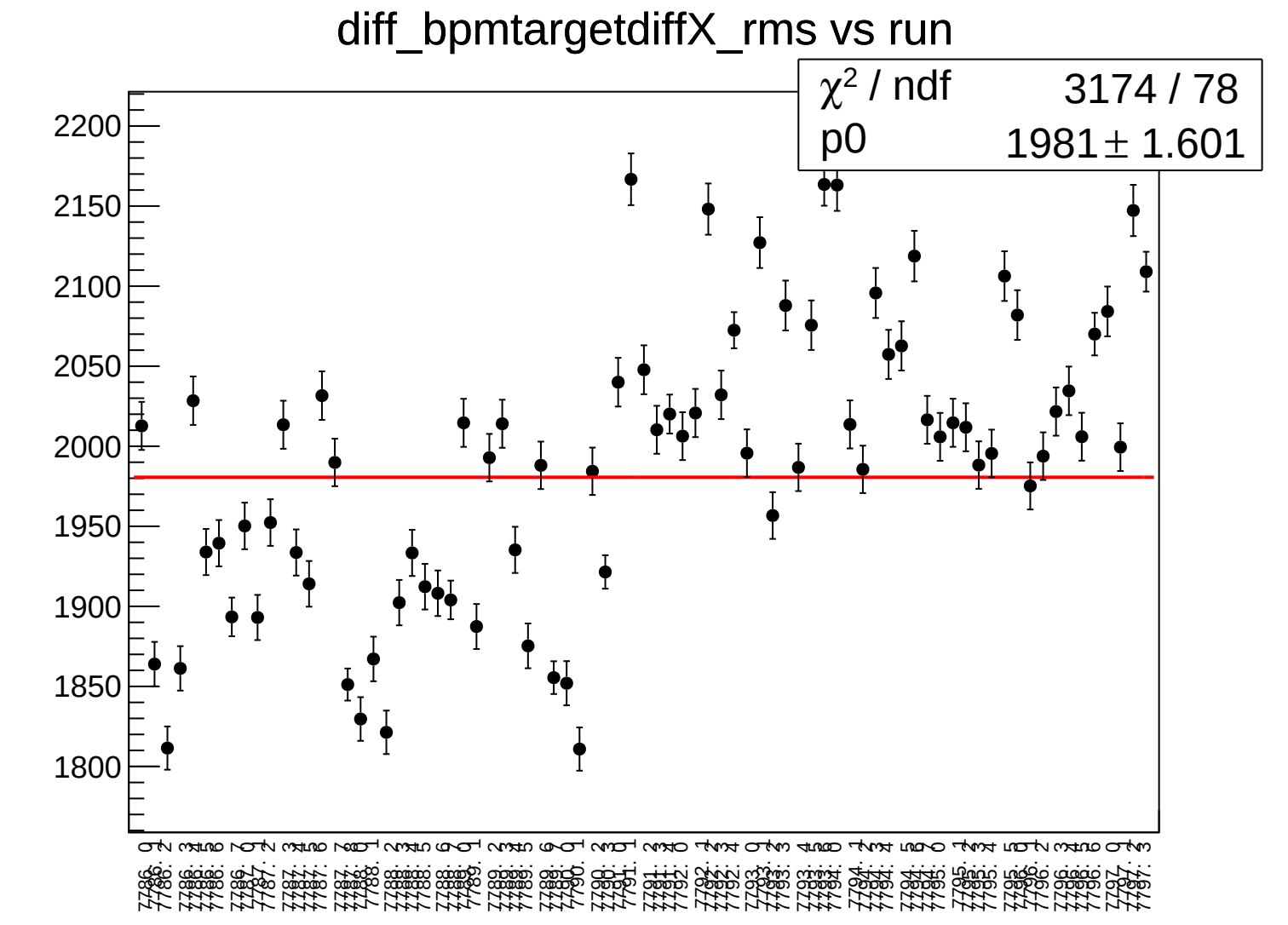

diff_bpmtargetsumX_mean vs run
χ² / ndf 73.82 / 78
p0 −56.84 ± 36.49
1000
500
0
−500
−1000
pull
Entries 79
Mean −42.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

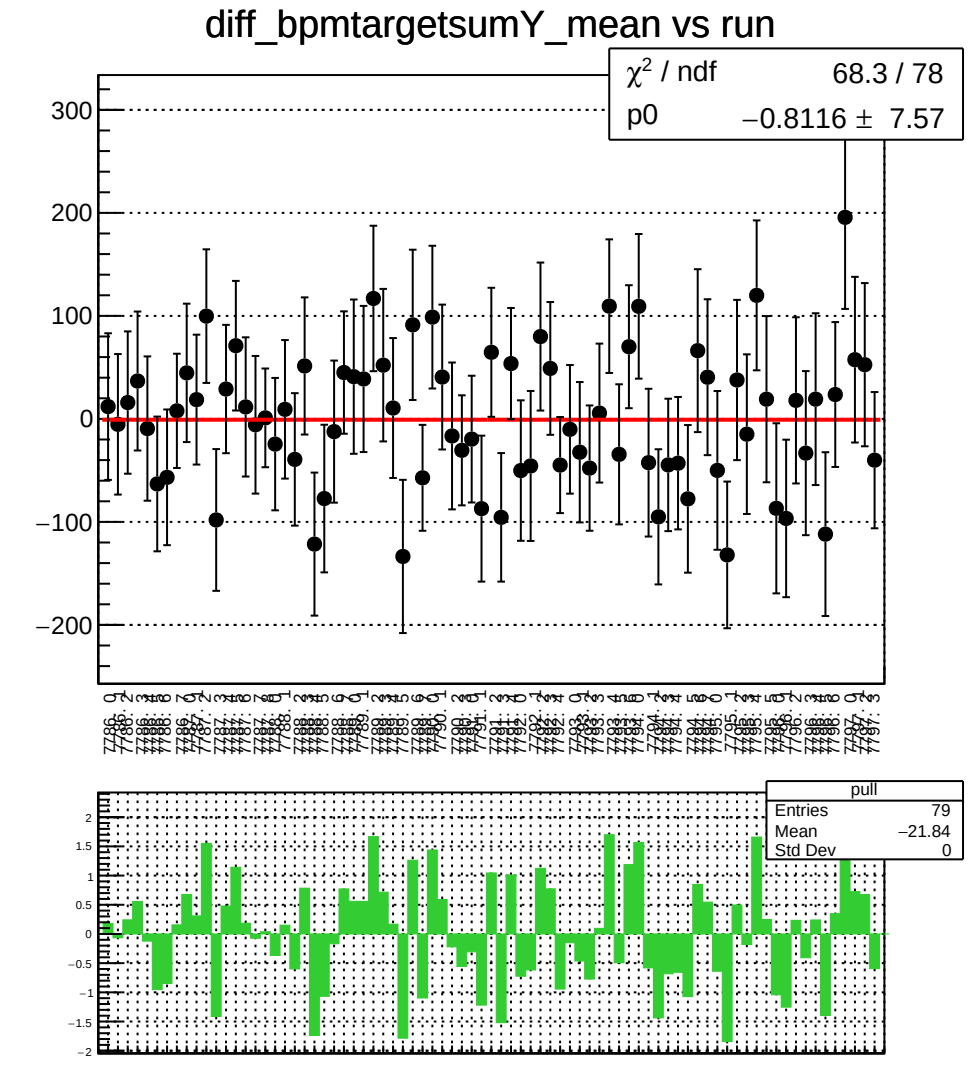

pull1D
Entries 79
Mean 0.01203
Std Dev 0.9666
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

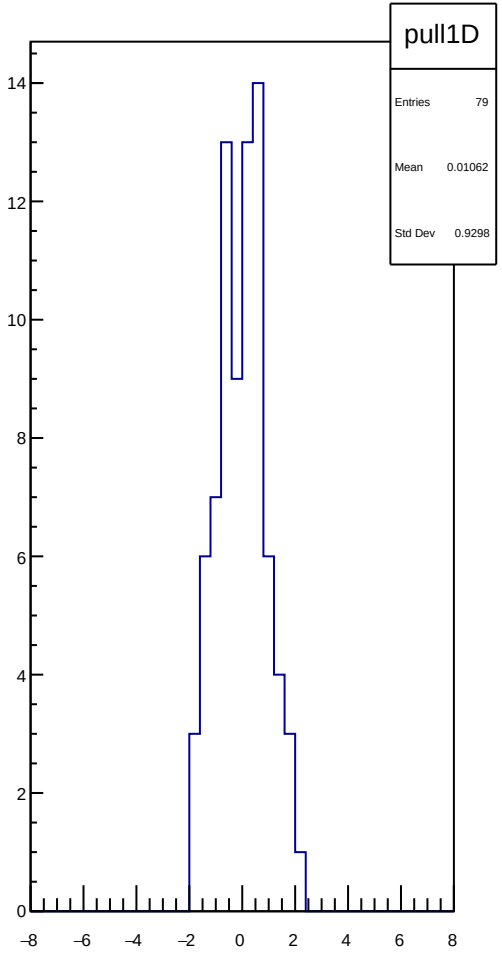

diff_bpmtargetsumX_rms vs run
χ² / ndf 2770 / 78
p0 3.193e+04 ± 25.8
36000
35000
34000
33000
32000
31000
30000
29000

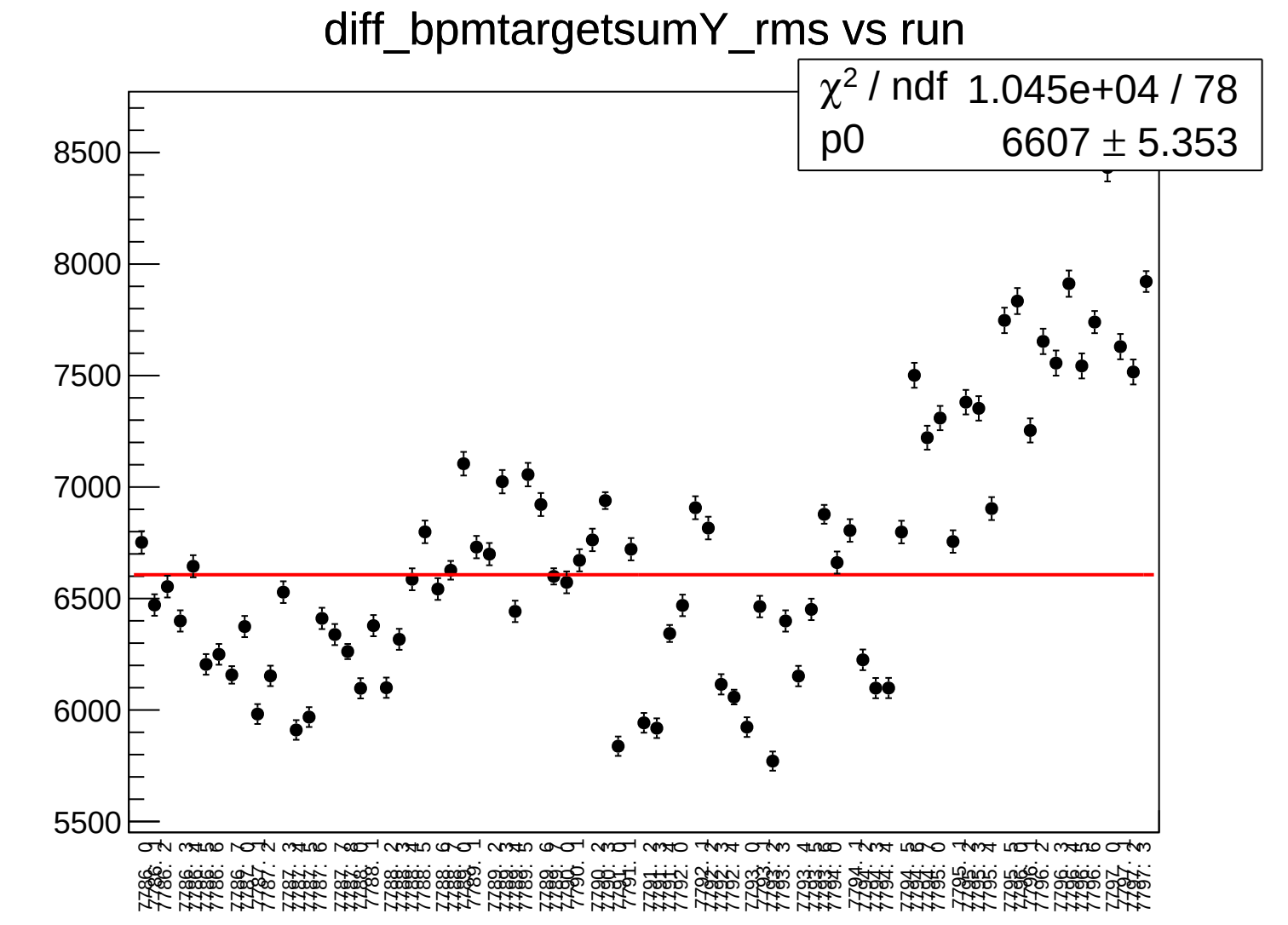

diff_bpmtargetdiffX_mean vs run
χ² / ndf 65.7 / 78
p0 4.313 ± 2.264
pull
Entries 79
Mean 121
Std Dev 0

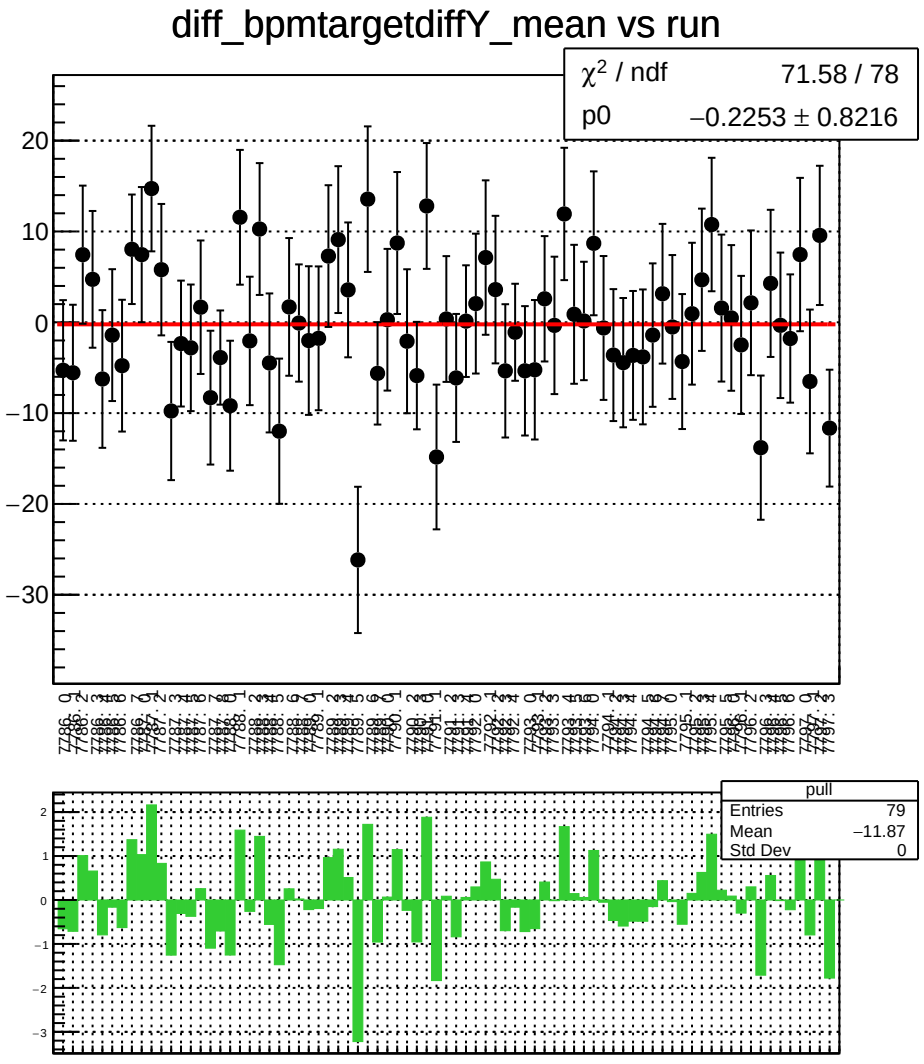

pull1D
Entries 79
Mean −0.01019
Std Dev 0.9119

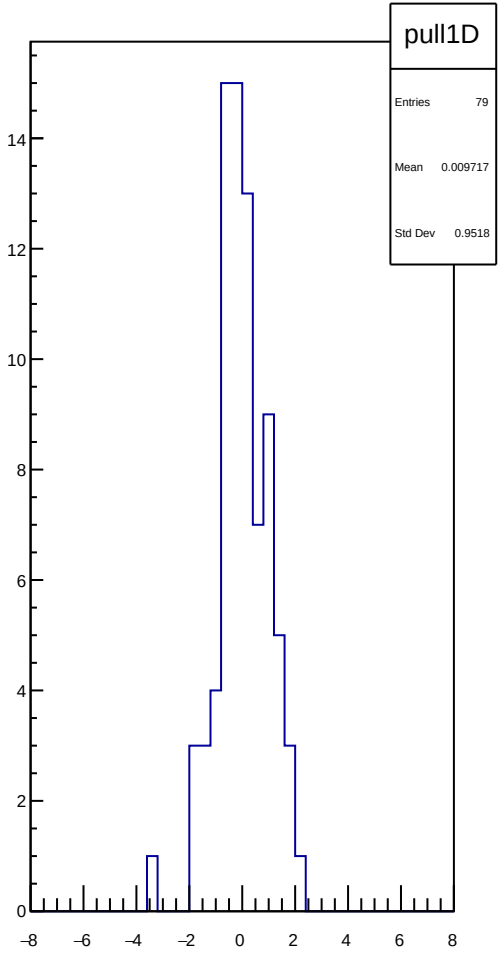

diff_bpmtargetdiffX_rms vs run
χ² / ndf 3174 / 78
p0 1981 ± 1.601
2200
2150
2100
2050
2000
1950
1900
1850
1800

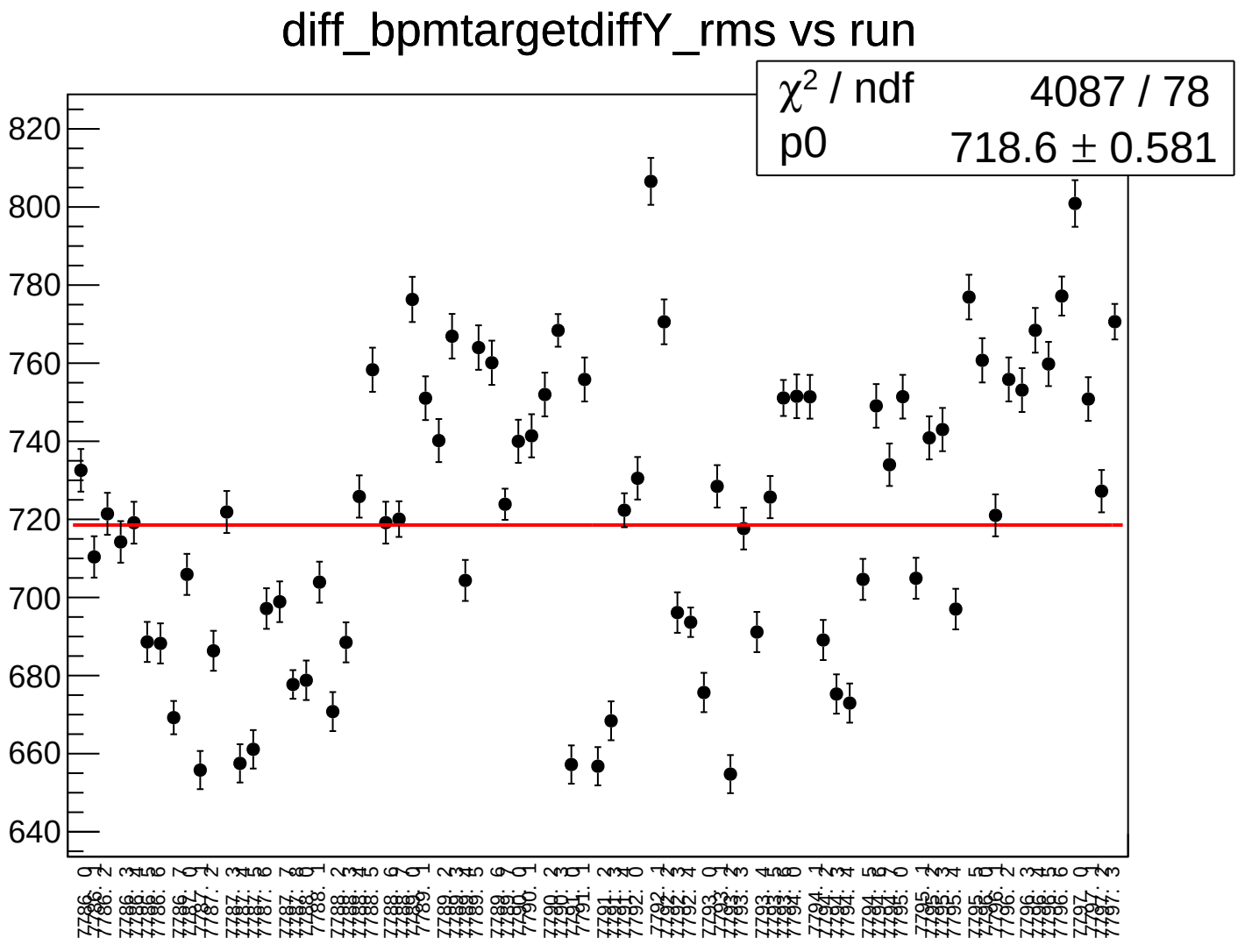

diff_bpmtargetsumY_mean vs run
χ² / ndf 68.3 / 78
p0 −0.8116 ± 7.57
pull
Entries 79
Mean −21.84
Std Dev 0

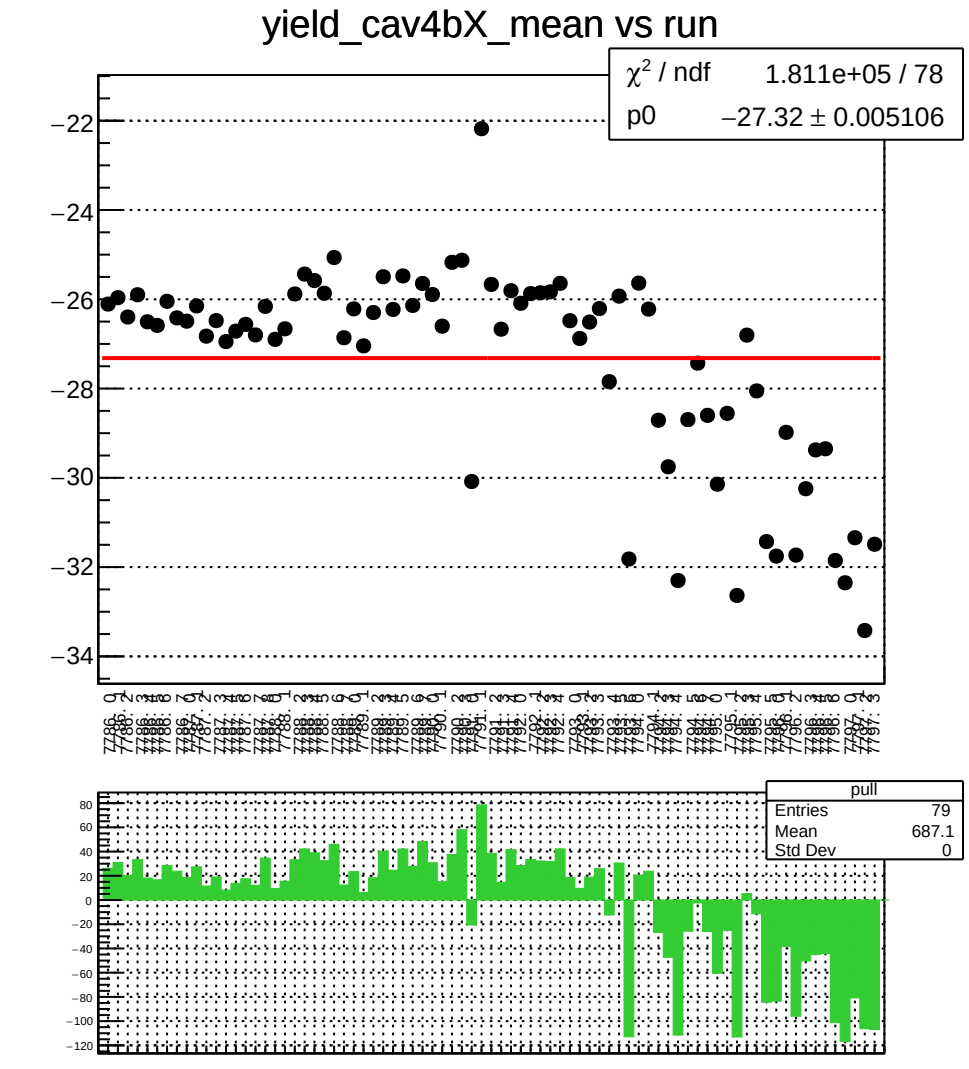

pull1D
Entries 79
Mean 0.01062
Std Dev 0.9298

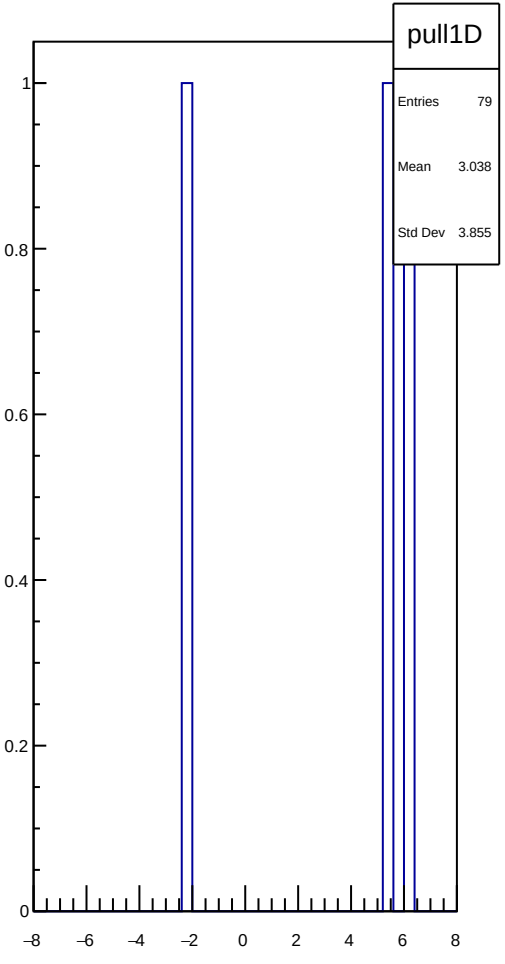

diff_bpmtargetsumY_rms vs run
χ² / ndf 1.045e+04 / 78
p0 6607 ± 5.353
8500
8000
7500
7000
6500
6000
5500

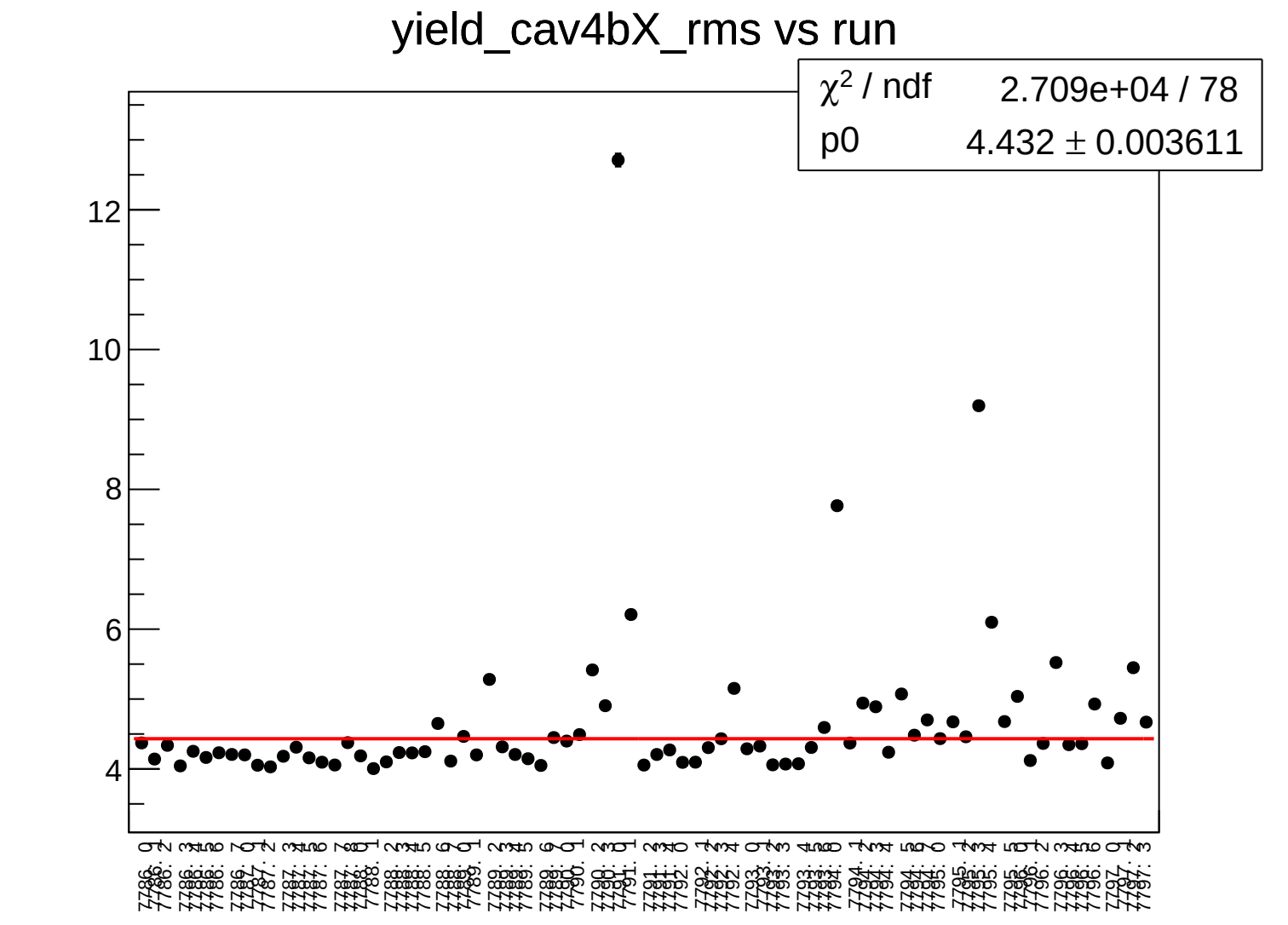

diff_bpmtargetdiffY_mean vs run
χ² / ndf 71.58 / 78
p0 −0.2253 ± 0.8216
pull
Entries 79
Mean −11.87
Std Dev 0

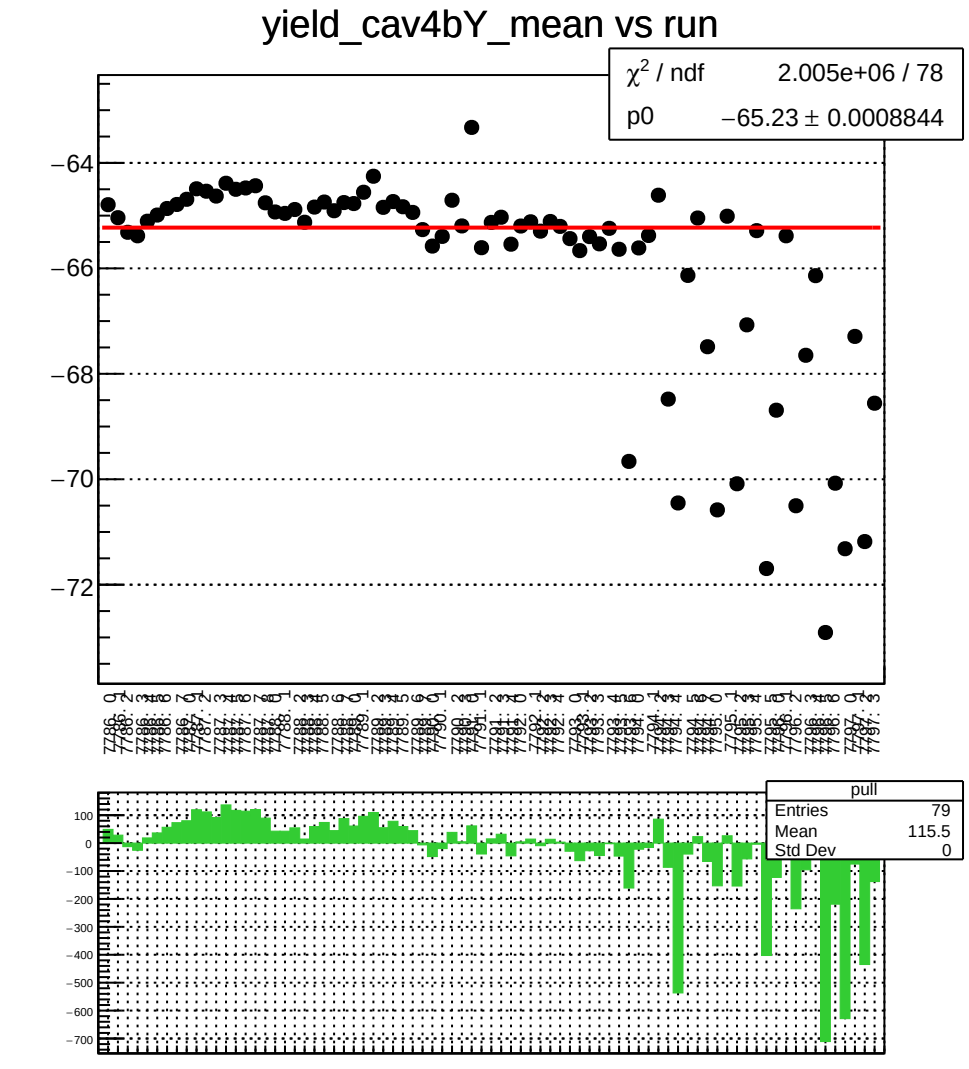

pull1D
Entries 79
Mean 0.009717
Std Dev 0.9518

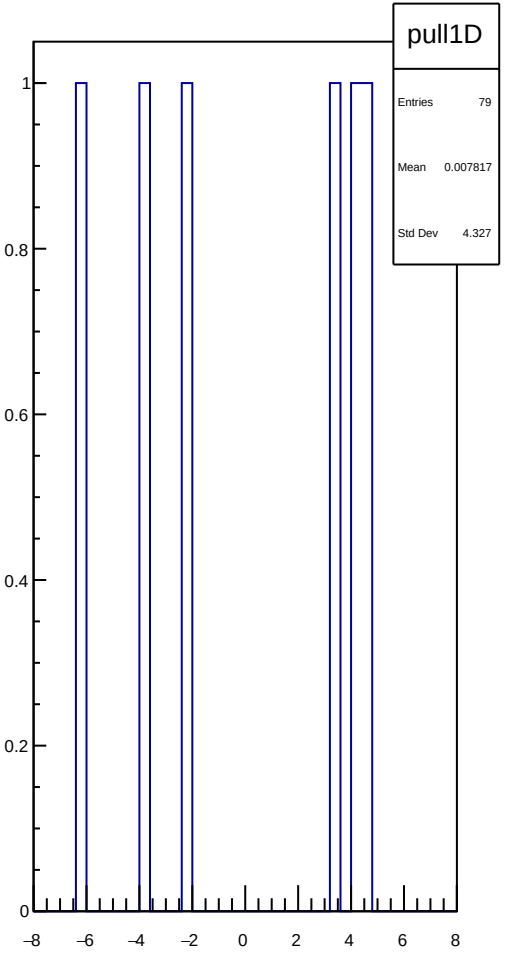

diff_bpmtargetdiffY_rms vs run
χ² / ndf 4087 / 78
p0 718.6 ± 0.581
820
800
780
760
740
720
700
680
660
640

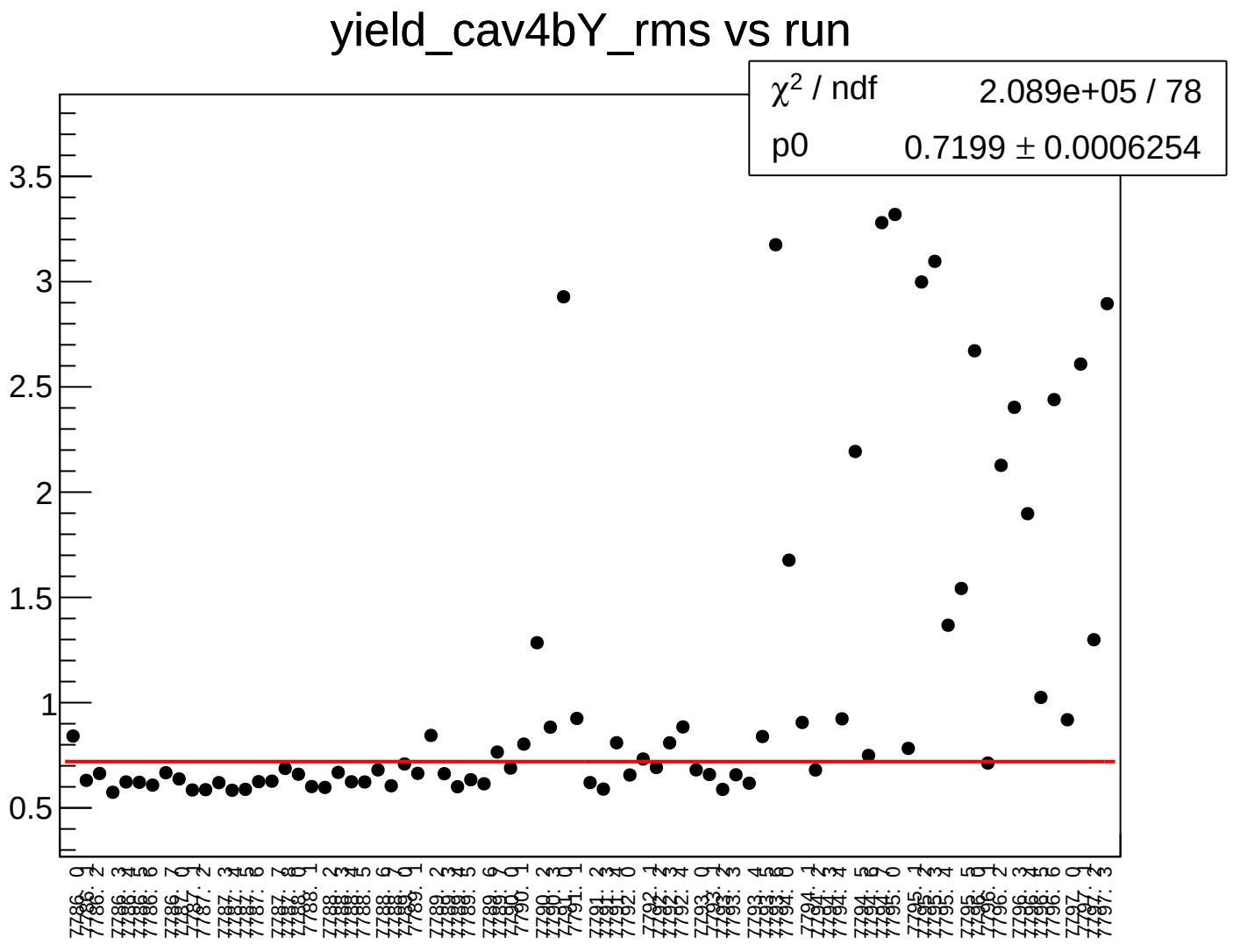

yield_cav4bX_mean vs run
χ² / ndf 1.811e+05 / 78
p0 −27.32 ± 0.005106
pull
Entries 79
Mean 687.1
Std Dev 0

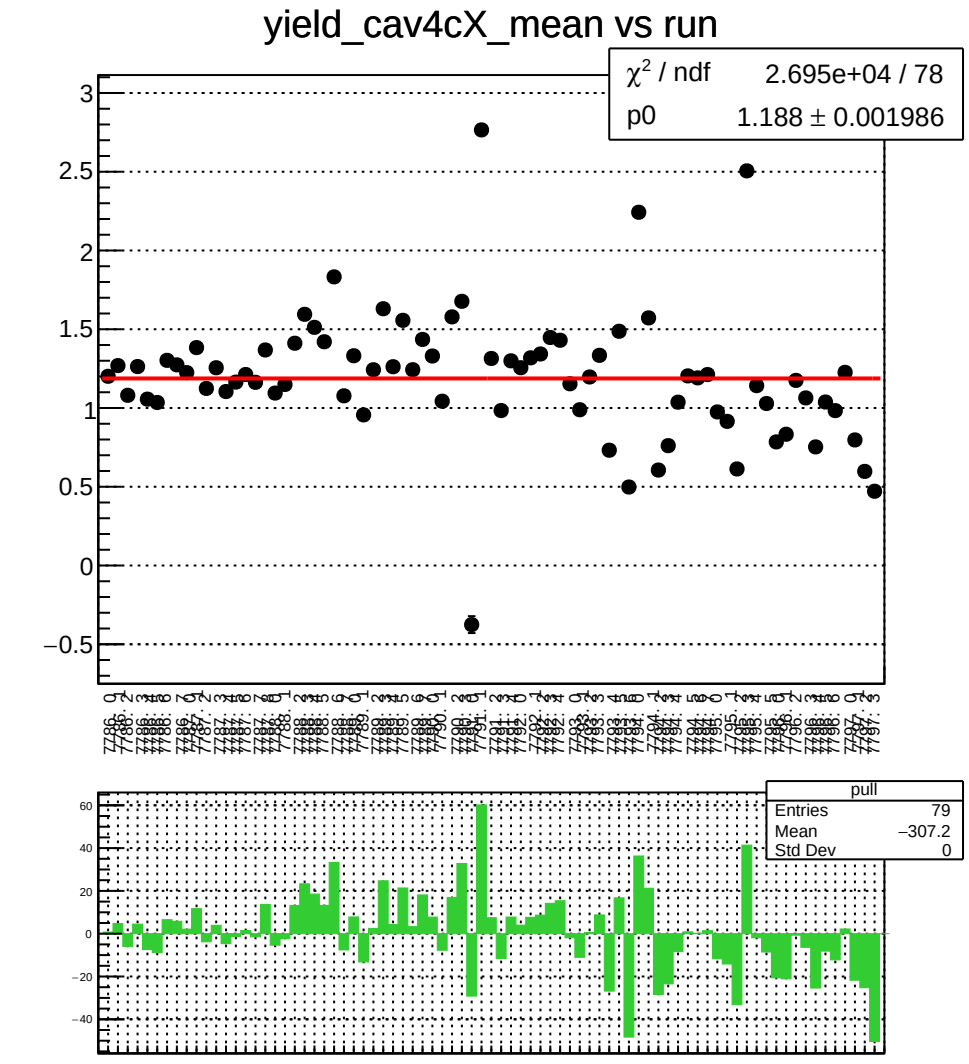

pull1D
Entries 79
Mean 3.038
Std Dev 3.855

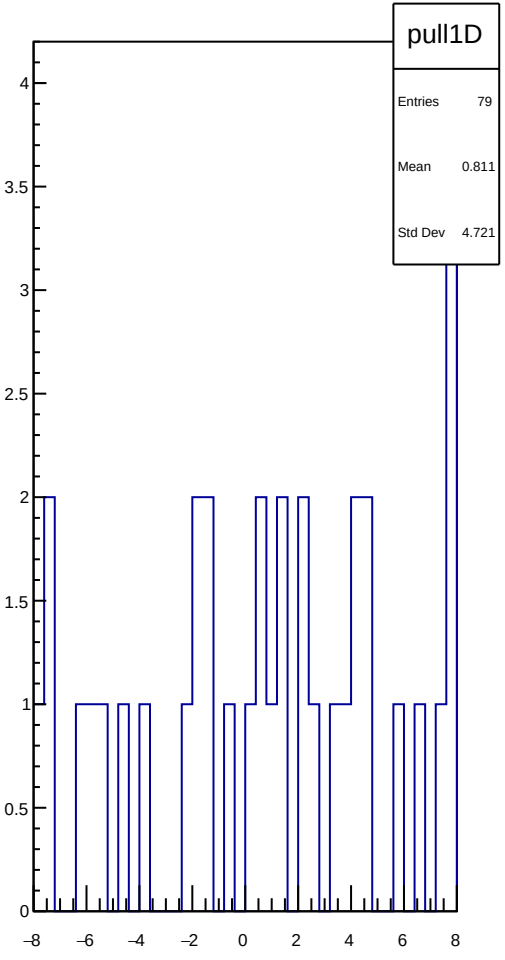

yield_cav4bX_rms vs run
χ² / ndf 2.709e+04 / 78
p0 4.432 ± 0.003611
12
10
8
6
4

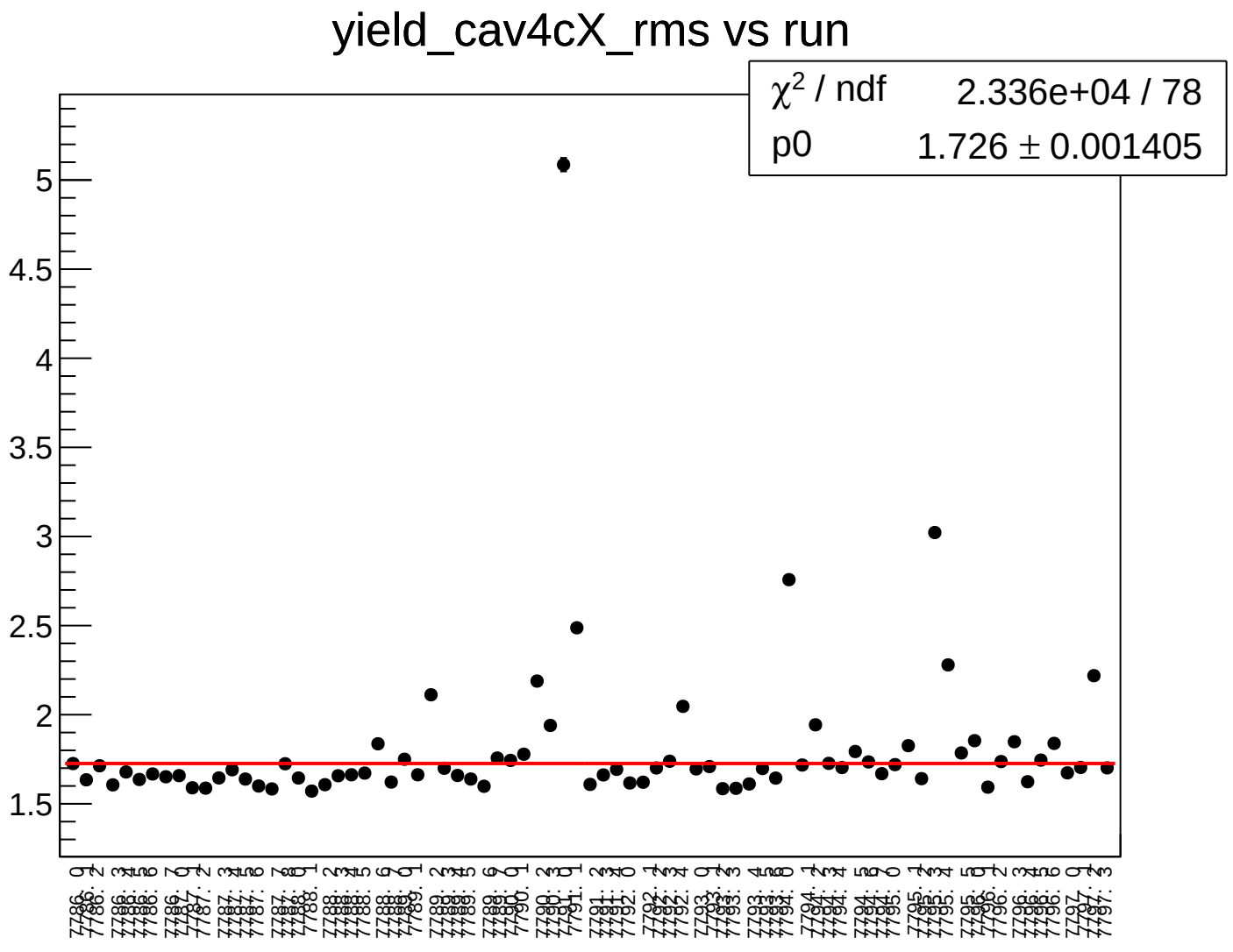

yield_cav4bY_mean vs run
χ² / ndf 2.005e+06 / 78
p0 −65.23 ± 0.0008844
−64
−66
−68
−70
−72
pull
Entries 79
Mean 115.5
Std Dev 0
100
0
−100
−200
−300
−400
−500
−600
−700

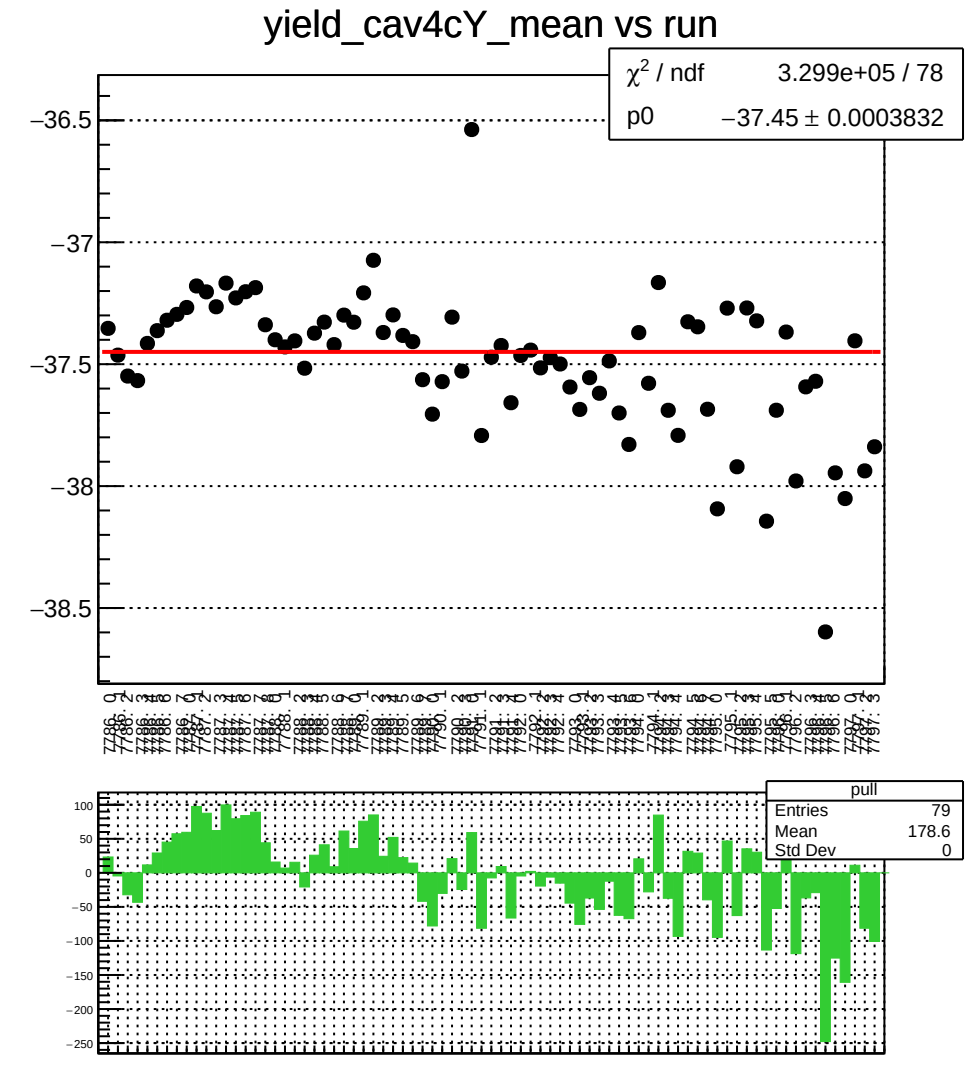

pull1D
Entries 79
Mean 0.007817
Std Dev 4.327
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

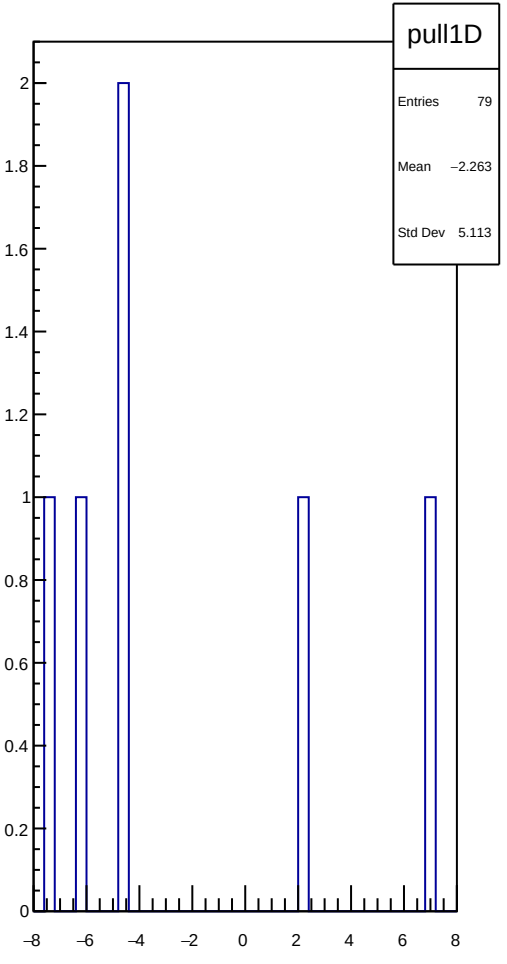

yield_cav4bY_rms vs run
χ² / ndf 2.089e+05 / 78
p0 0.7199 ± 0.0006254
3.5
3
2.5
2
1.5
1
0.5

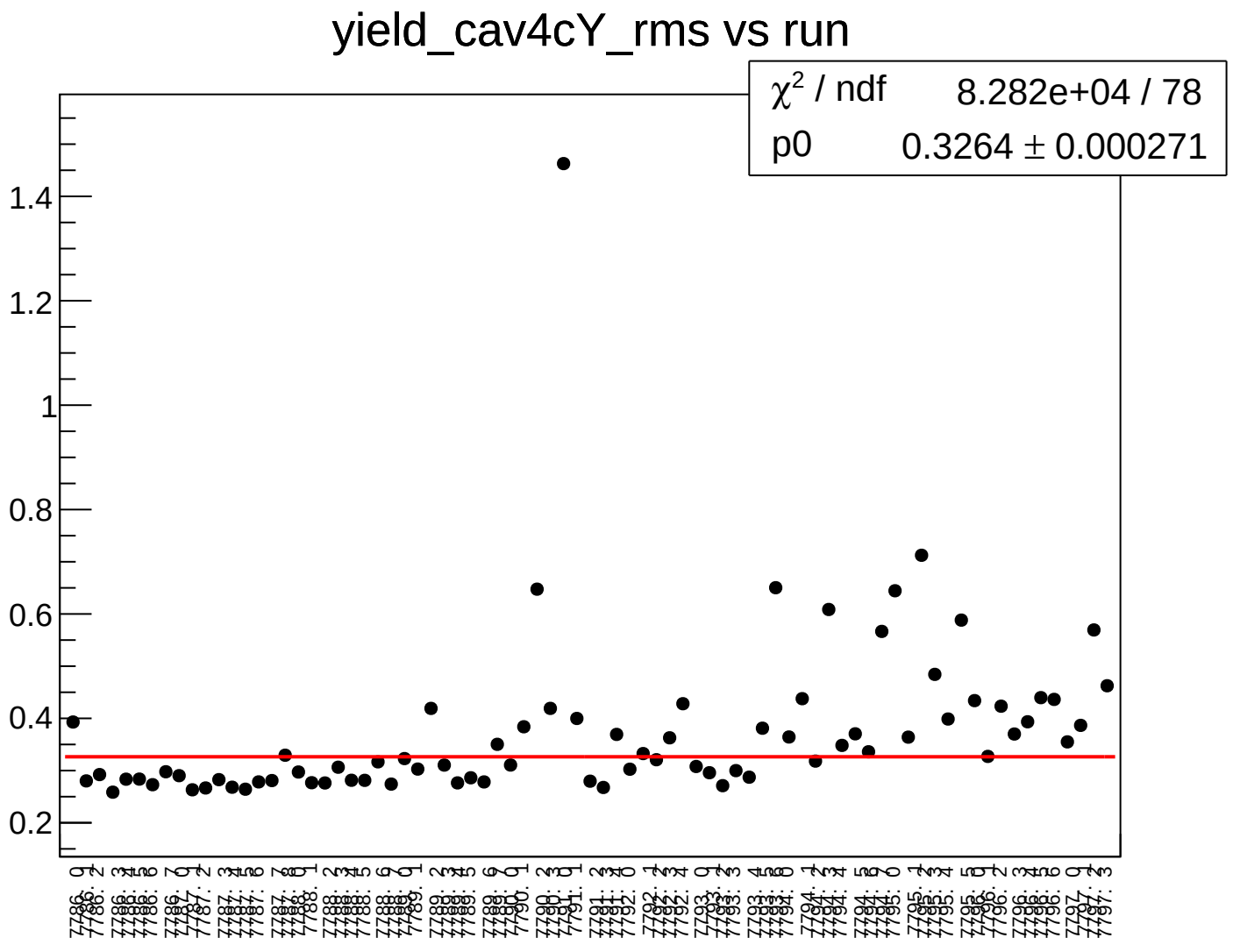

yield_cav4cX_mean vs run
χ² / ndf 2.695e+04 / 78
p0 1.188 ± 0.001986
pull
Entries 79
Mean −307.2
Std Dev 0

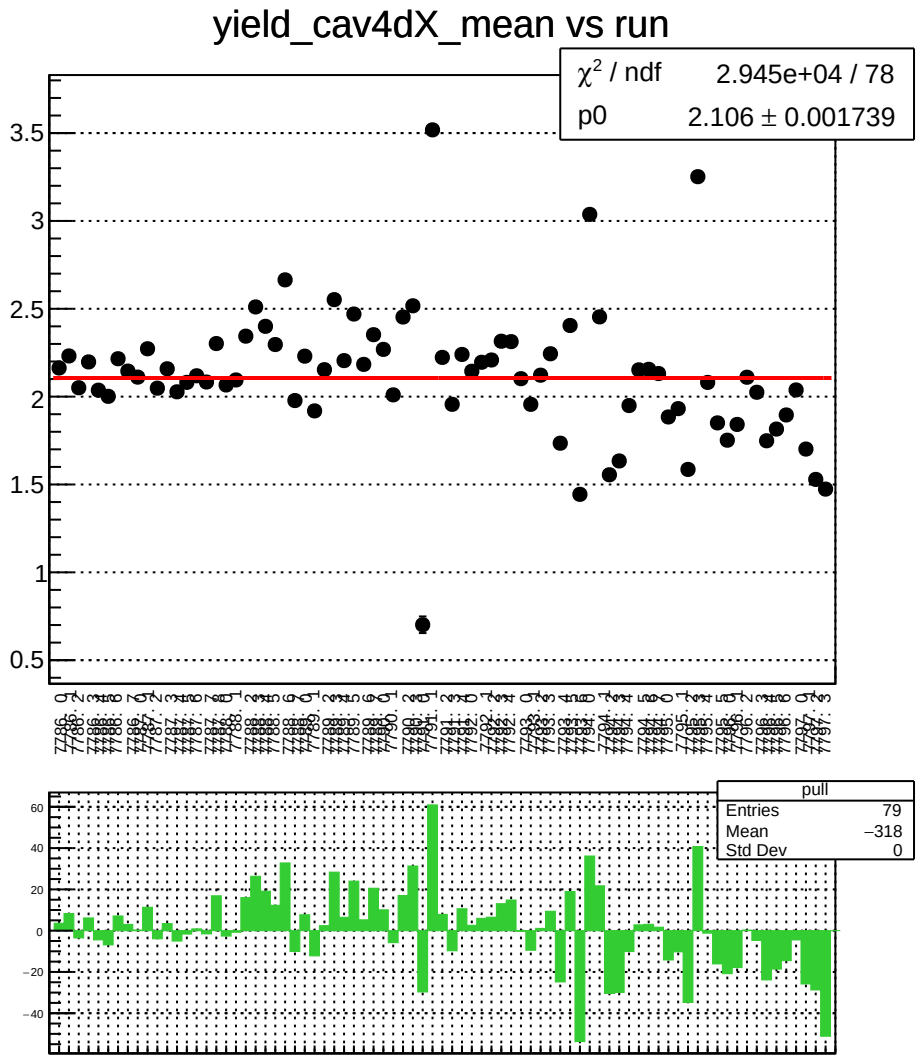

pull1D
Entries 79
Mean 0.811
Std Dev 4.721

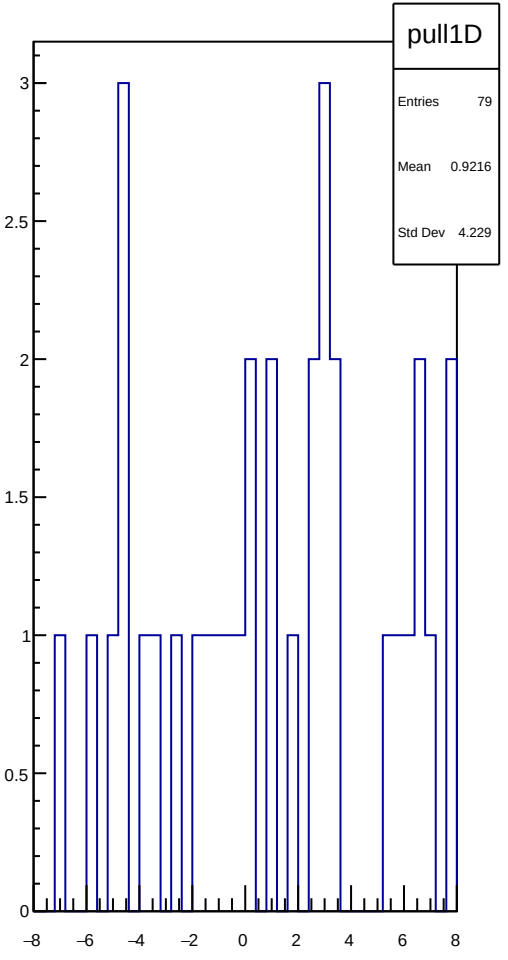

yield_cav4cX_rms vs run
χ^2 / ndf 2.336e+04 / 78
p0 1.726 ± 0.001405
5
4.5
4
3.5
3
2.5
2
1.5

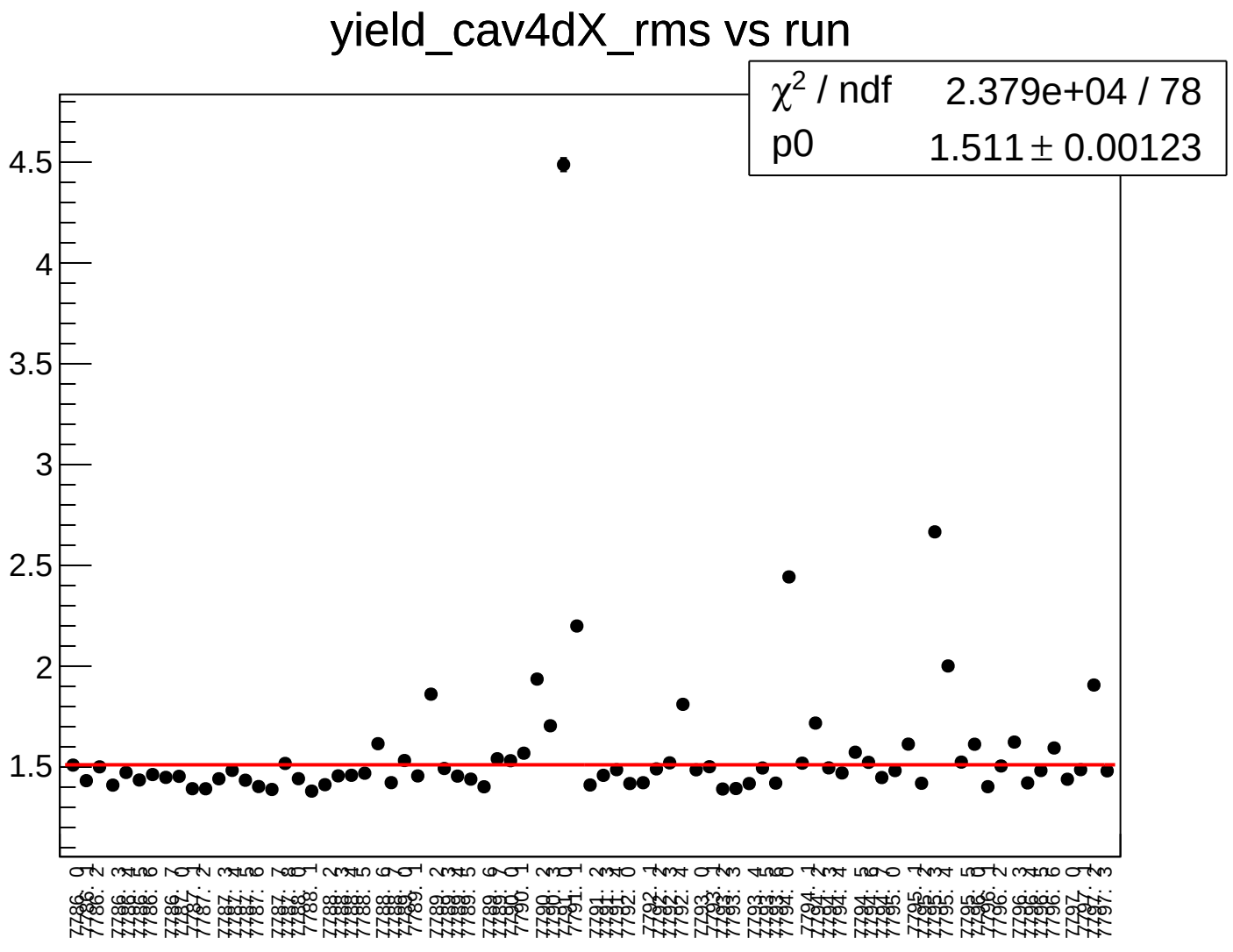

yield_cav4cY_mean vs run
χ² / ndf 3.299e+05 / 78
p0 −37.45 ± 0.0003832
−36.5
−37
−37.5
−38
−38.5
pull
Entries 79
Mean 178.6
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

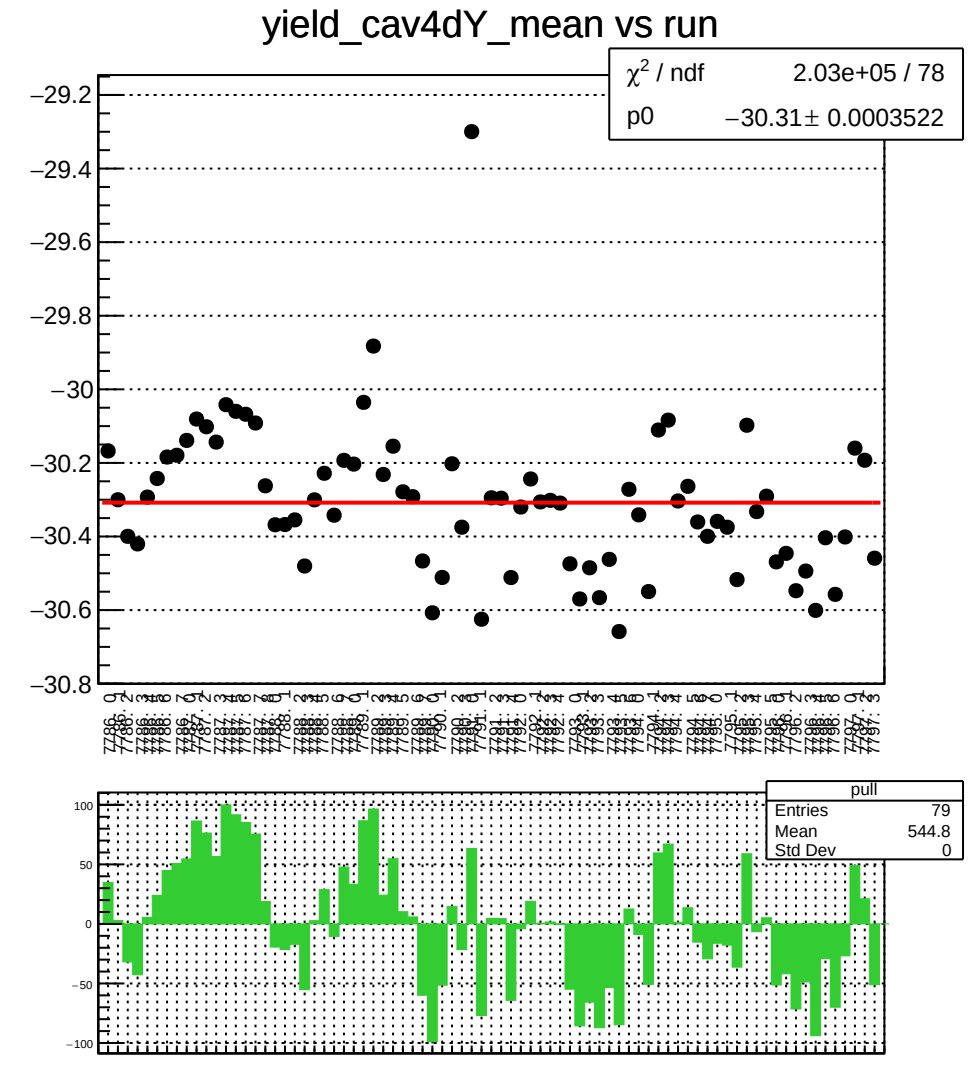

pull1D
Entries 79
Mean −2.263
Std Dev 5.113
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

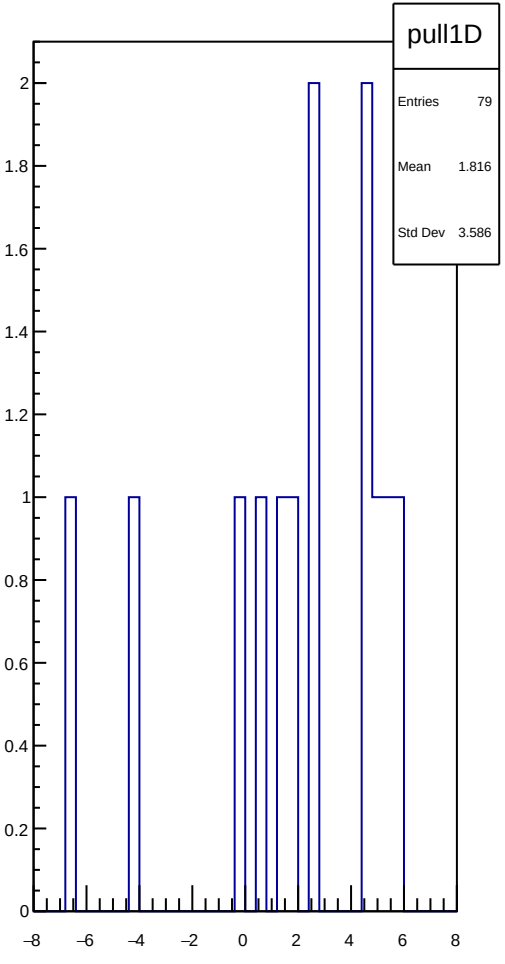

yield_cav4cY_rms vs run
χ^2 / ndf 8.282e+04 / 78
p0 0.3264 ± 0.000271
1.4
1.2
1
0.8
0.6
0.4
0.2

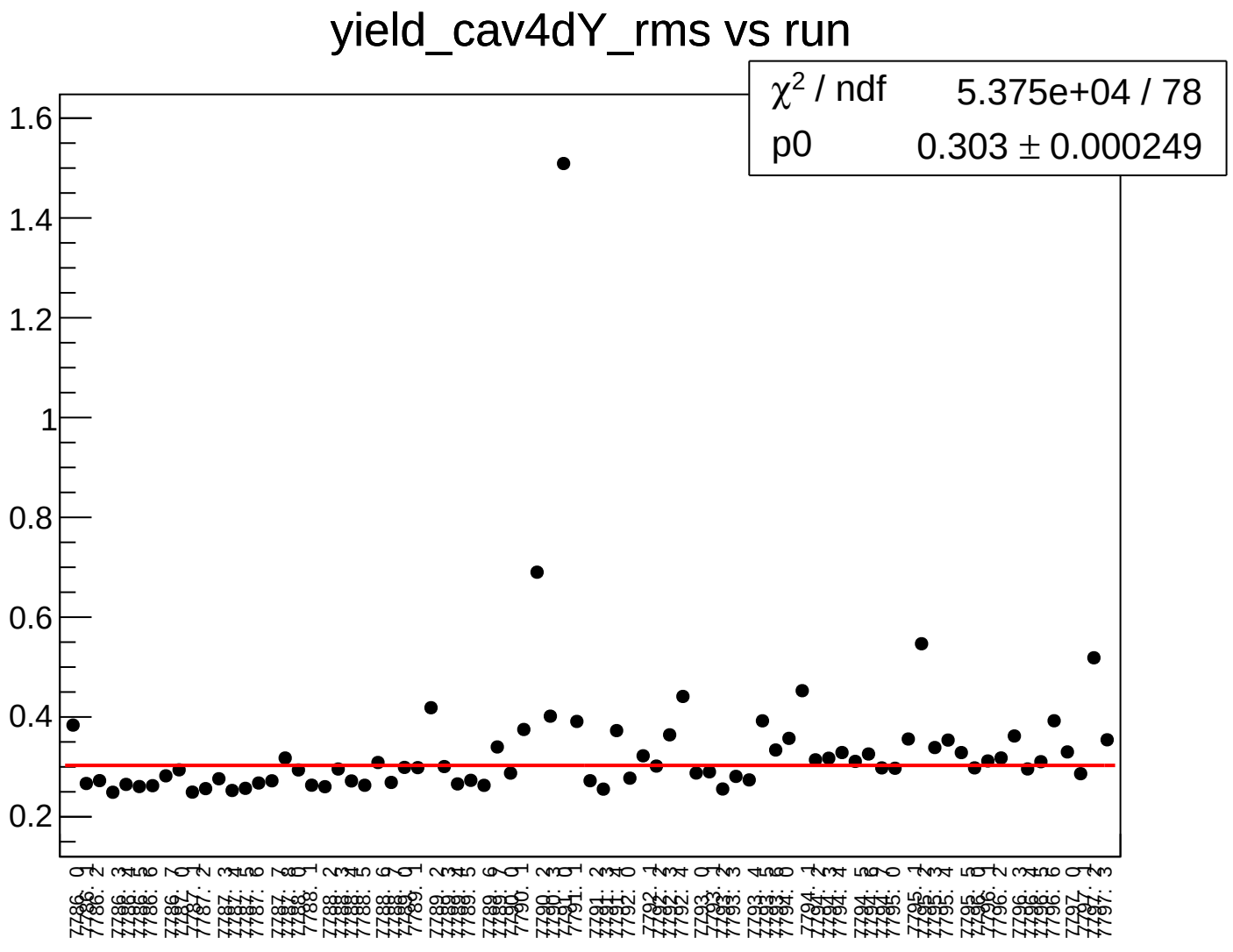

yield_cav4dX_mean vs run
χ² / ndf 2.945e+04 / 78
p0 2.106 ± 0.001739
pull
Entries 79
Mean −318
Std Dev 0

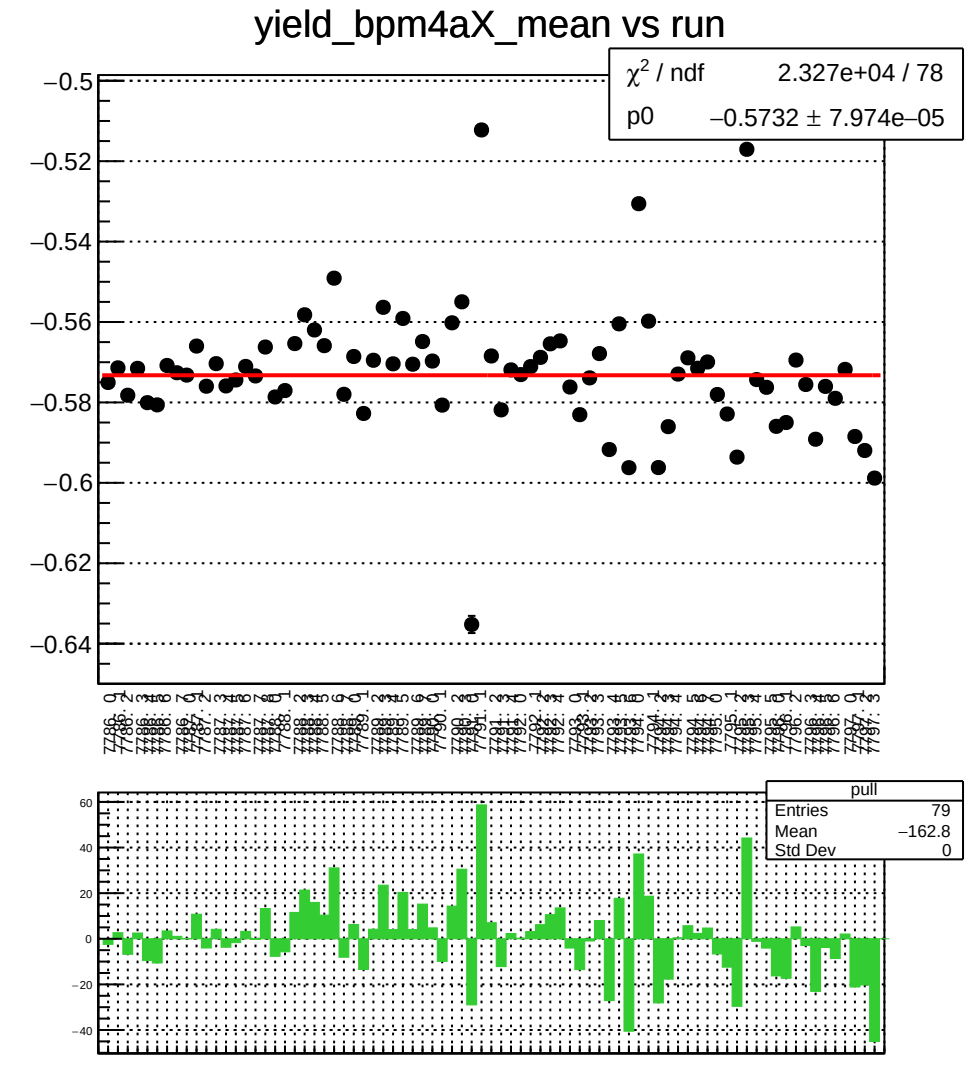

pull1D
Entries 79
Mean 0.9216
Std Dev 4.229

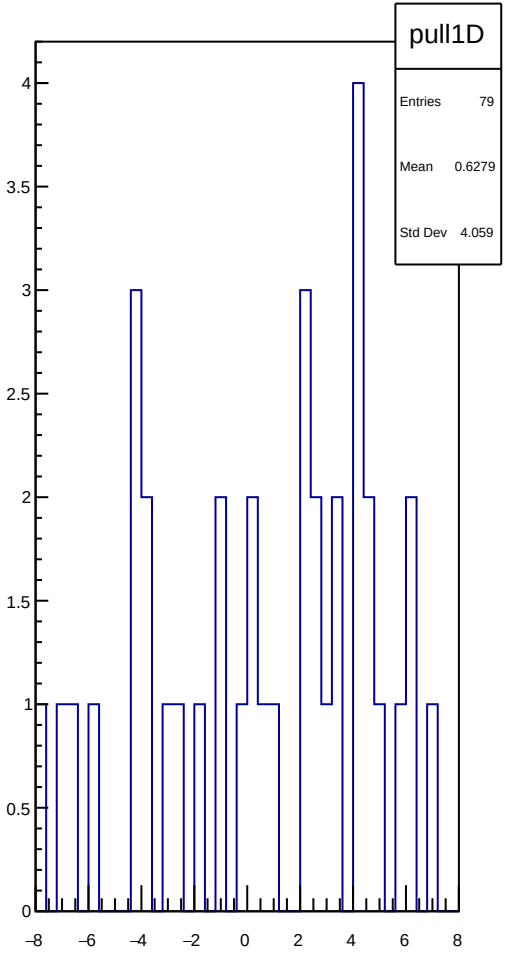

yield_cav4dX_rms vs run
χ^2 / ndf 2.379e+04 / 78
p0 1.511 ± 0.00123
4.5
4
3.5
3
2.5
2
1.5

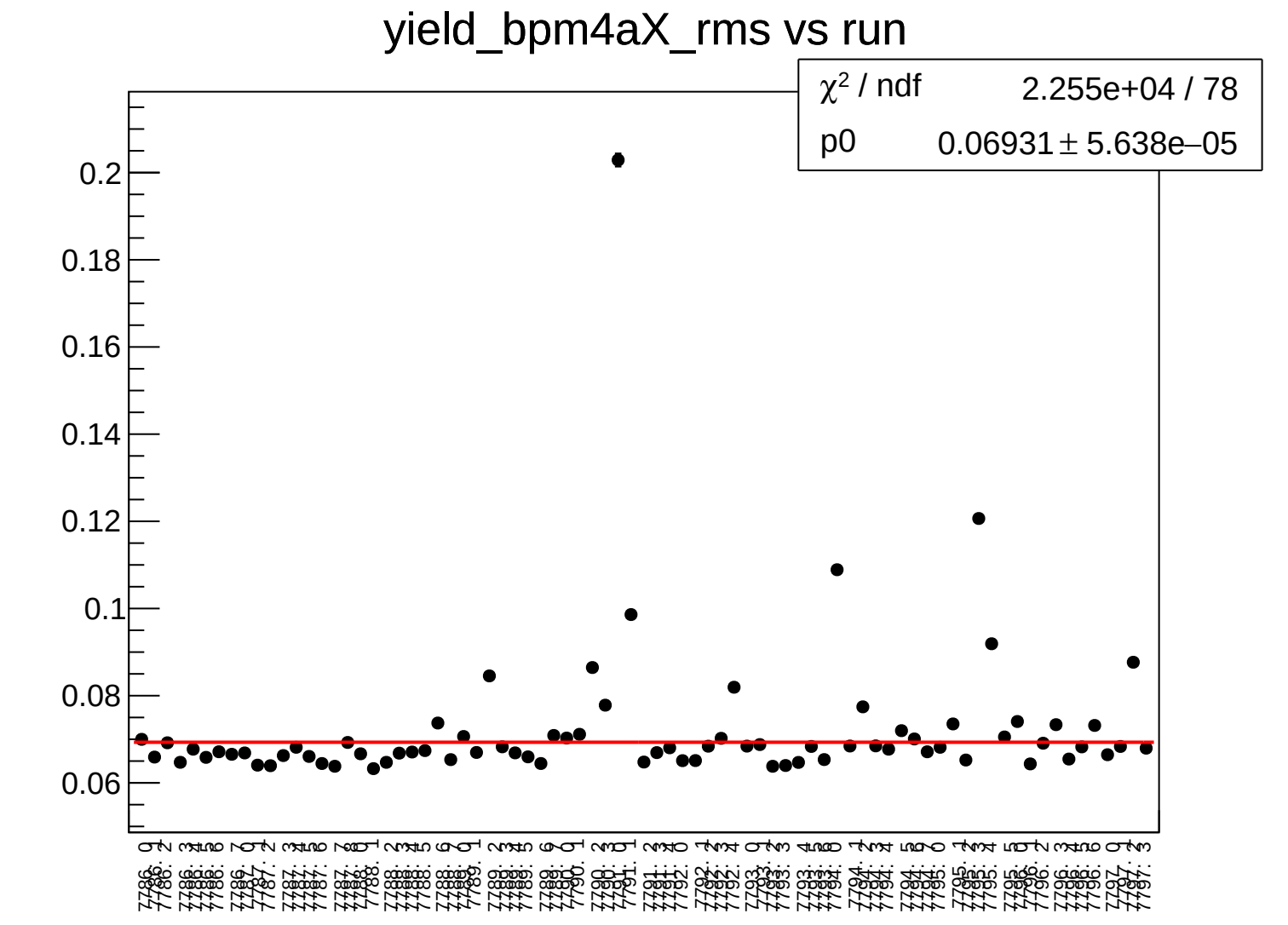

yield_cav4dY_mean vs run
χ² / ndf 2.03e+05 / 78
p0 −30.31 ± 0.0003522
−29.2
−29.4
−29.6
−29.8
−30
−30.2
−30.4
−30.6
−30.8
pull
Entries 79
Mean 544.8
Std Dev 0
100
50
0
−50
−100

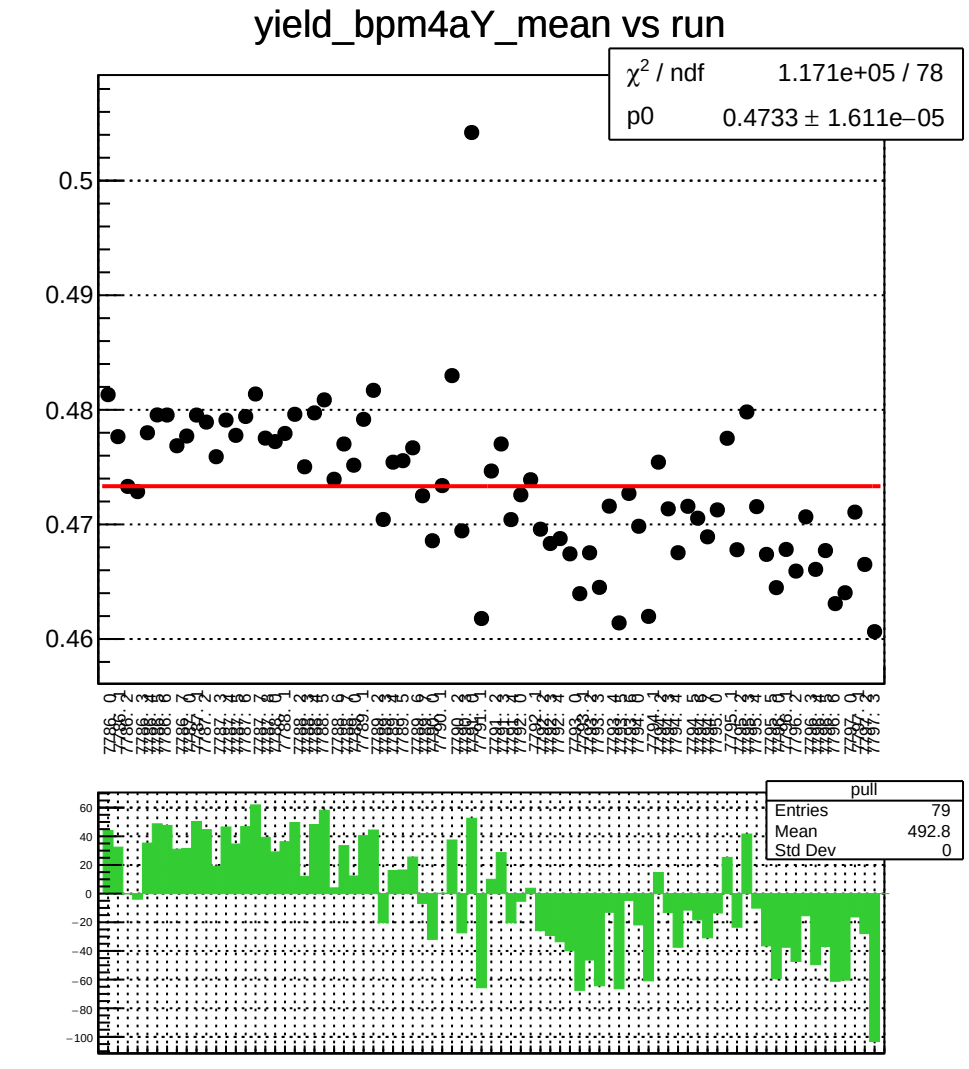

pull1D
Entries 79
Mean 1.816
Std Dev 3.586
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

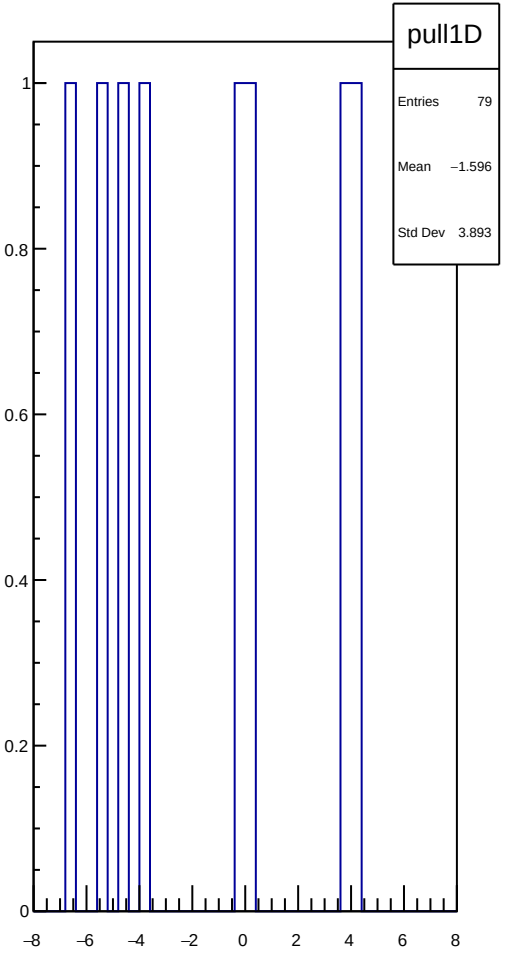

yield_cav4dY_rms vs run
χ^2 / ndf 5.375e+04 / 78
p0 0.303 ± 0.000249
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

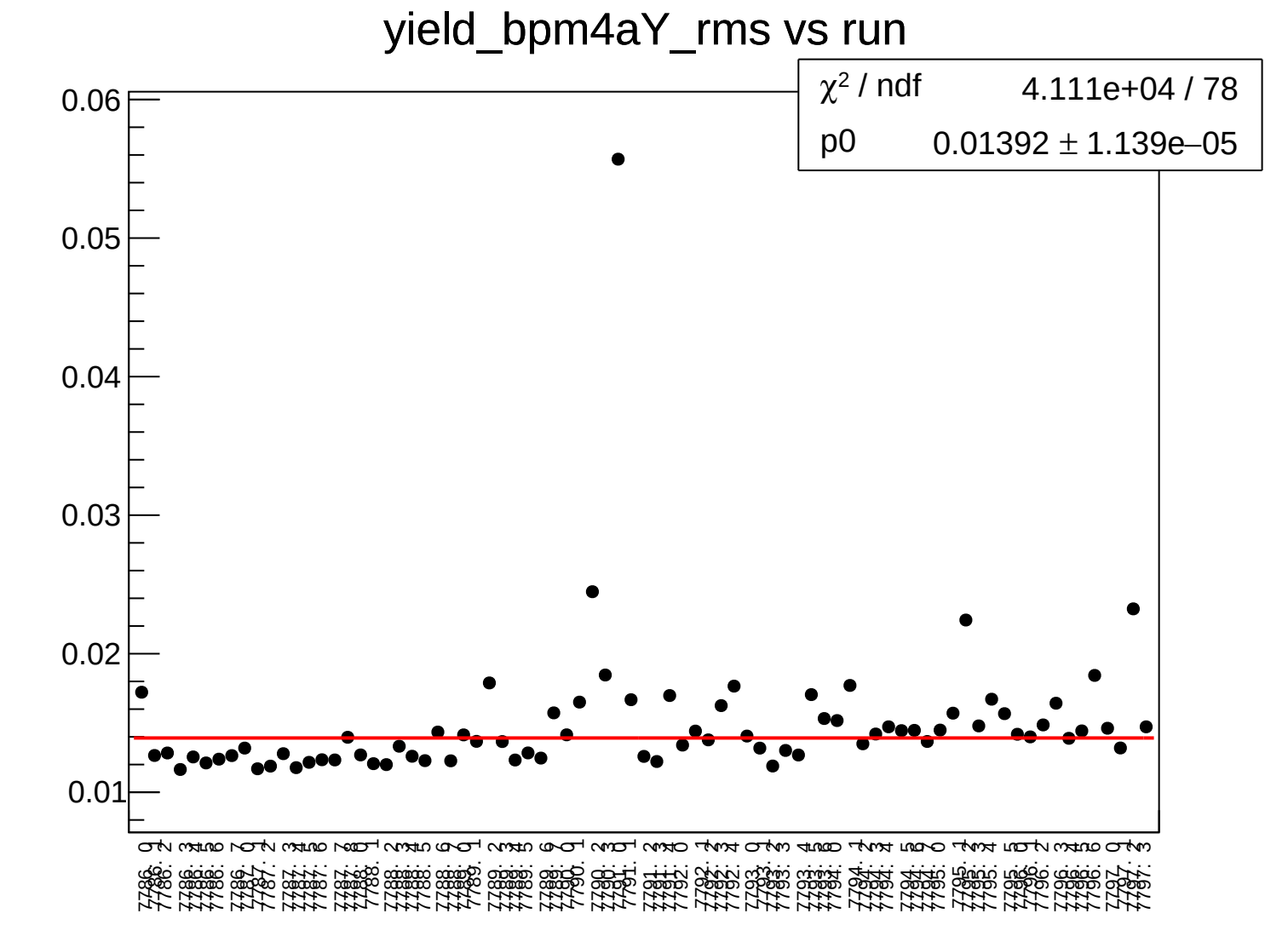

yield_bpm4aX_mean vs run
χ² / ndf 2.327e+04 / 78
p0 −0.5732 ± 7.974e−05
pull
Entries 79
Mean −162.8
Std Dev 0

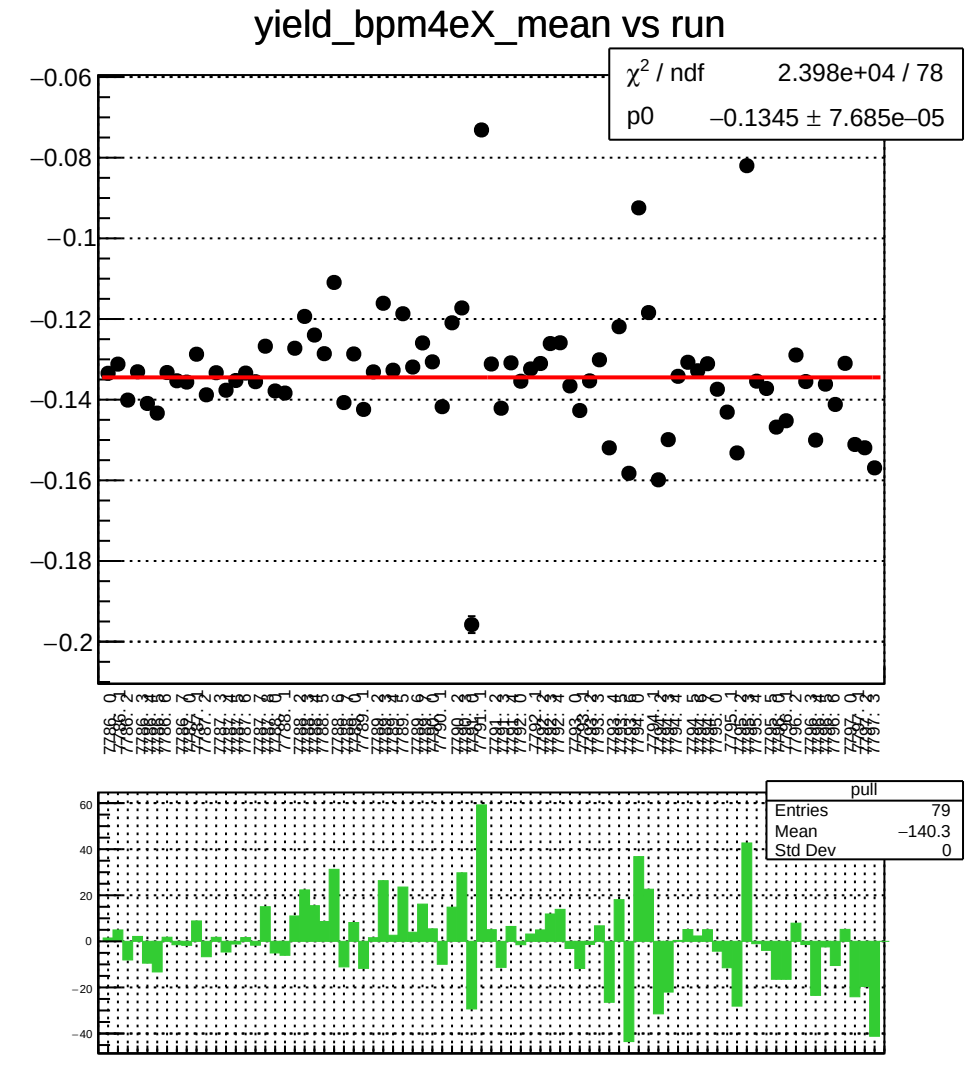

pull1D
Entries 79
Mean 0.6279
Std Dev 4.059

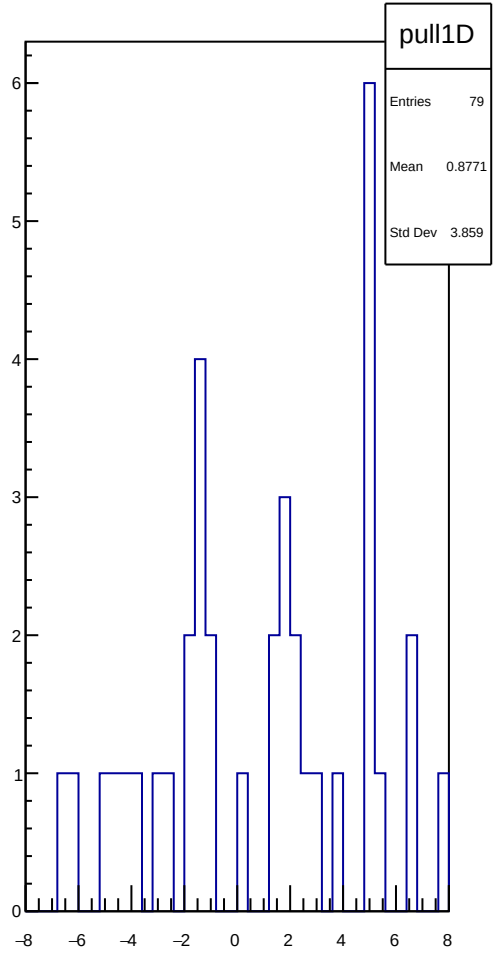

yield_bpm4aX_rms vs run
χ² / ndf 2.255e+04 / 78
p0 0.06931 ± 5.638e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

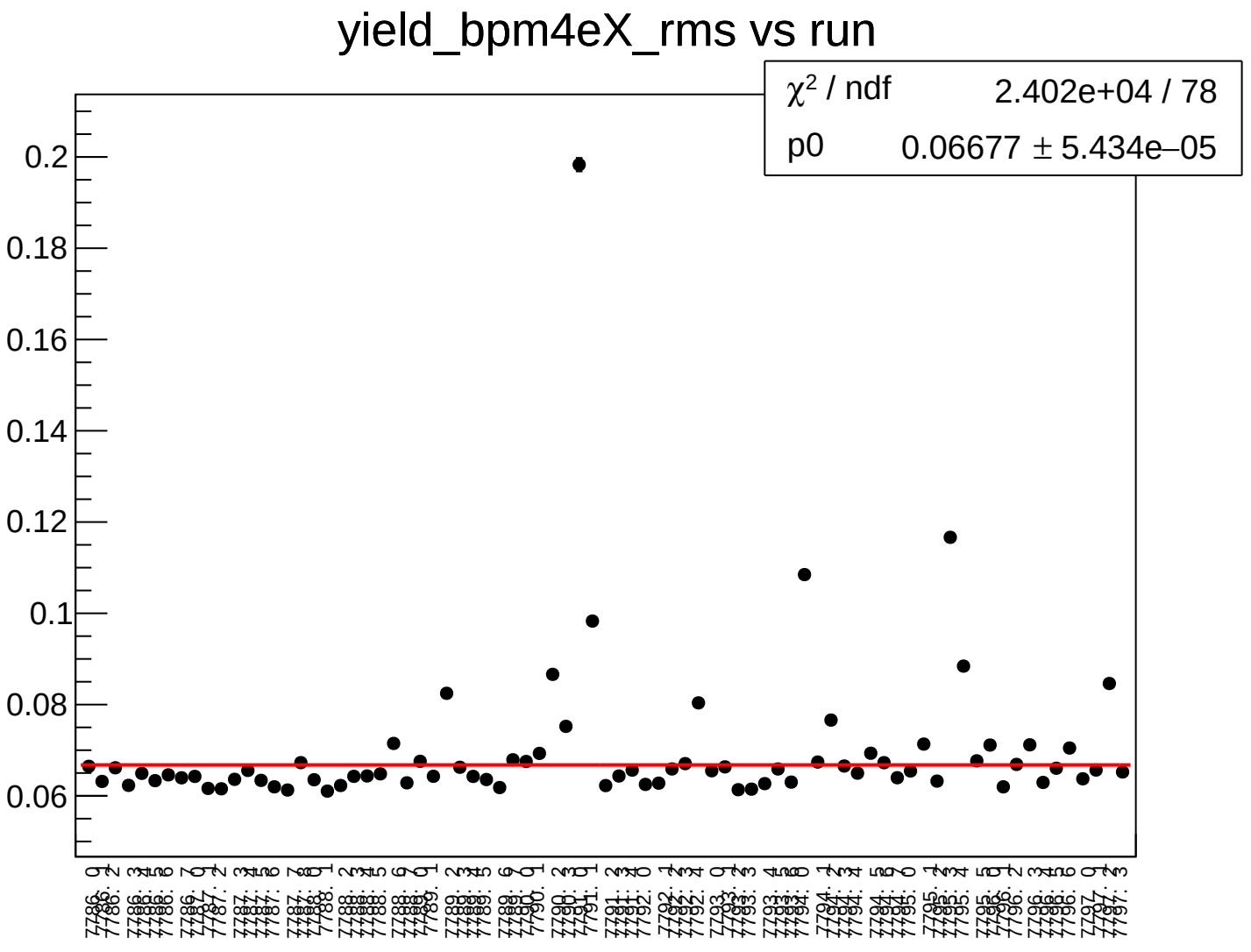

yield_bpm4aY_mean vs run
χ² / ndf 1.171e+05 / 78
p0 0.4733 ± 1.611e−05
0.5
0.49
0.48
0.47
0.46
pull
Entries 79
Mean 492.8
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

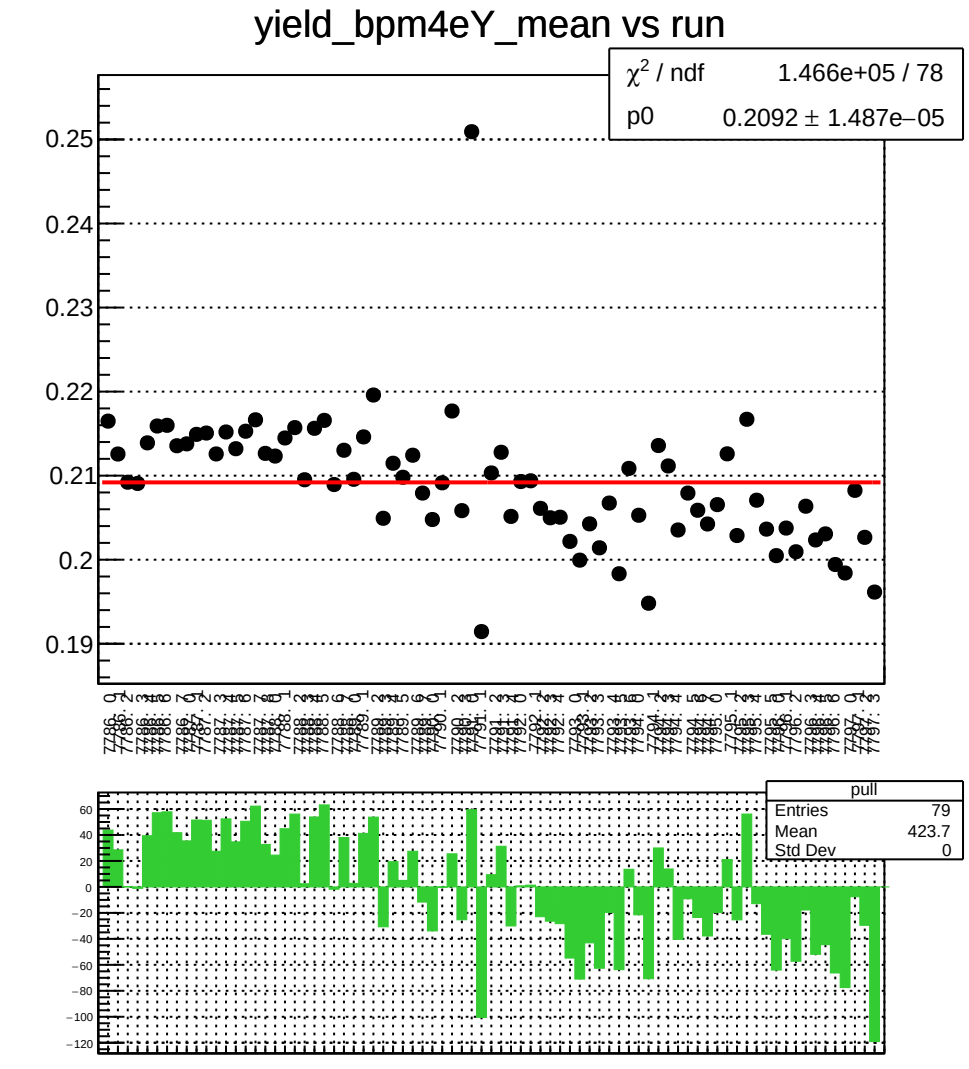

pull1D
Entries 79
Mean −1.596
Std Dev 3.893
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

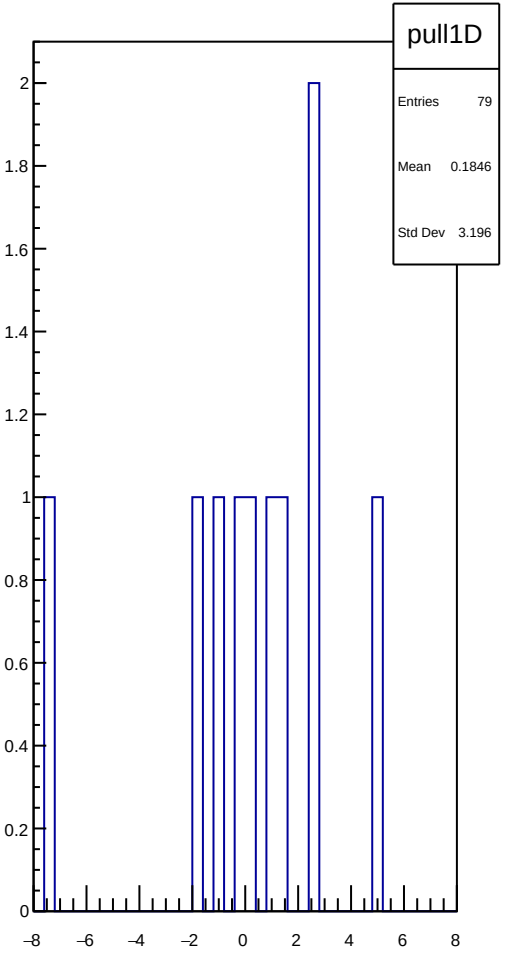

yield_bpm4aY_rms vs run
χ² / ndf 4.111e+04 / 78
p0 0.01392 ± 1.139e–05
0.06
0.05
0.04
0.03
0.02
0.01

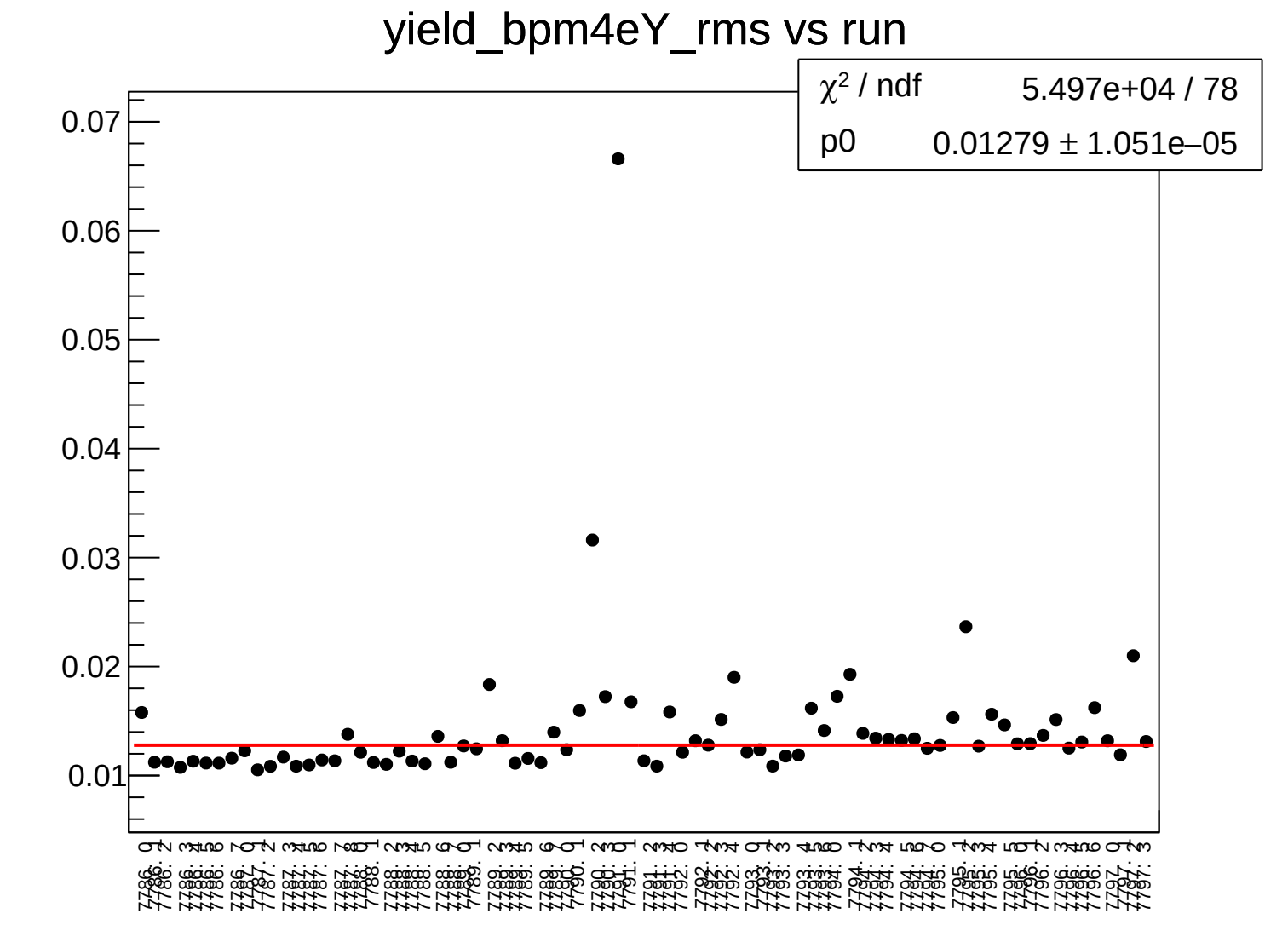

yield_bpm4eX_mean vs run
χ² / ndf 2.398e+04 / 78
p0 −0.1345 ± 7.685e−05
pull
Entries 79
Mean −140.3
Std Dev 0

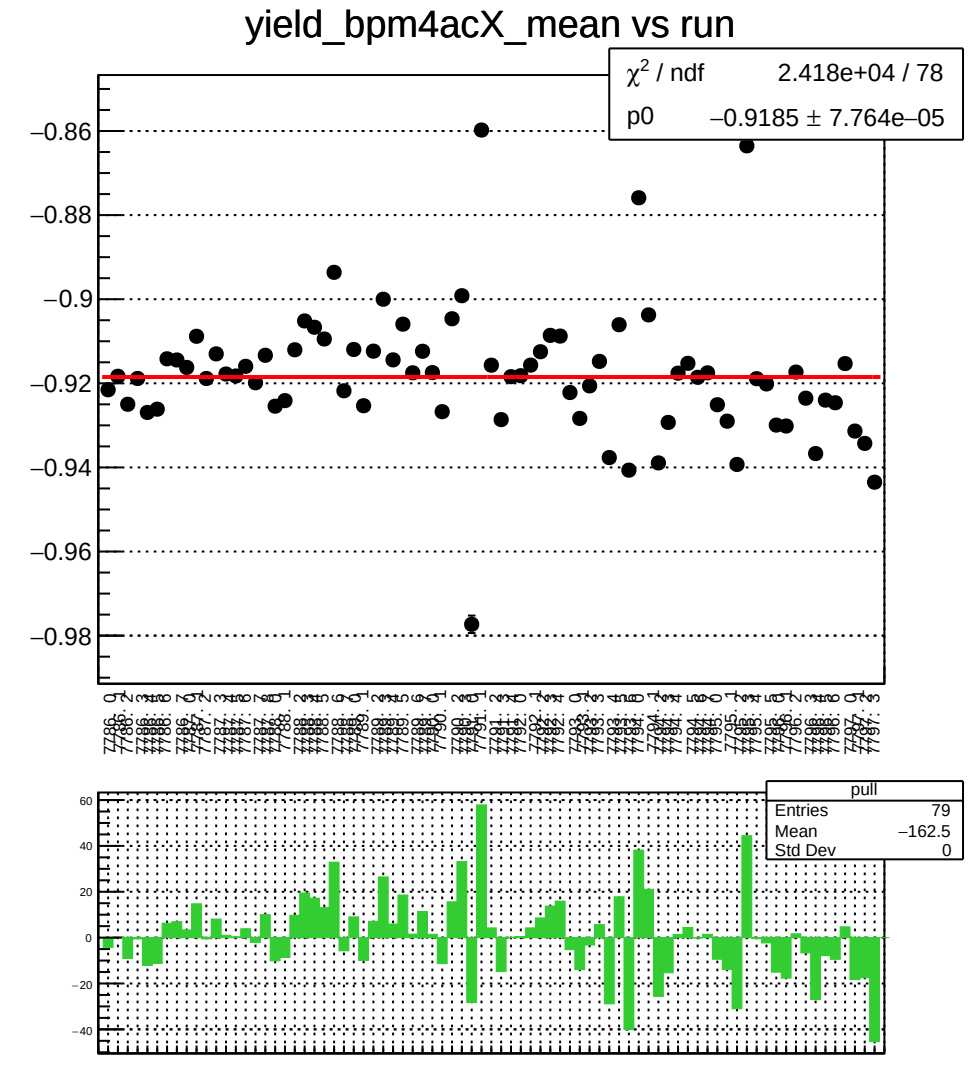

pull1D
Entries 79
Mean 0.8771
Std Dev 3.859

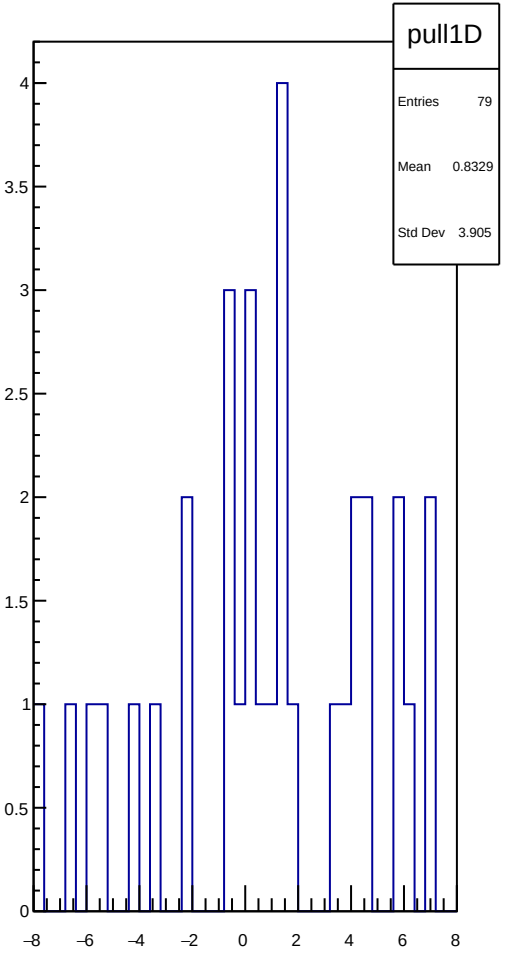

yield_bpm4eX_rms vs run
χ² / ndf 2.402e+04 / 78
p0 0.06677 ± 5.434e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

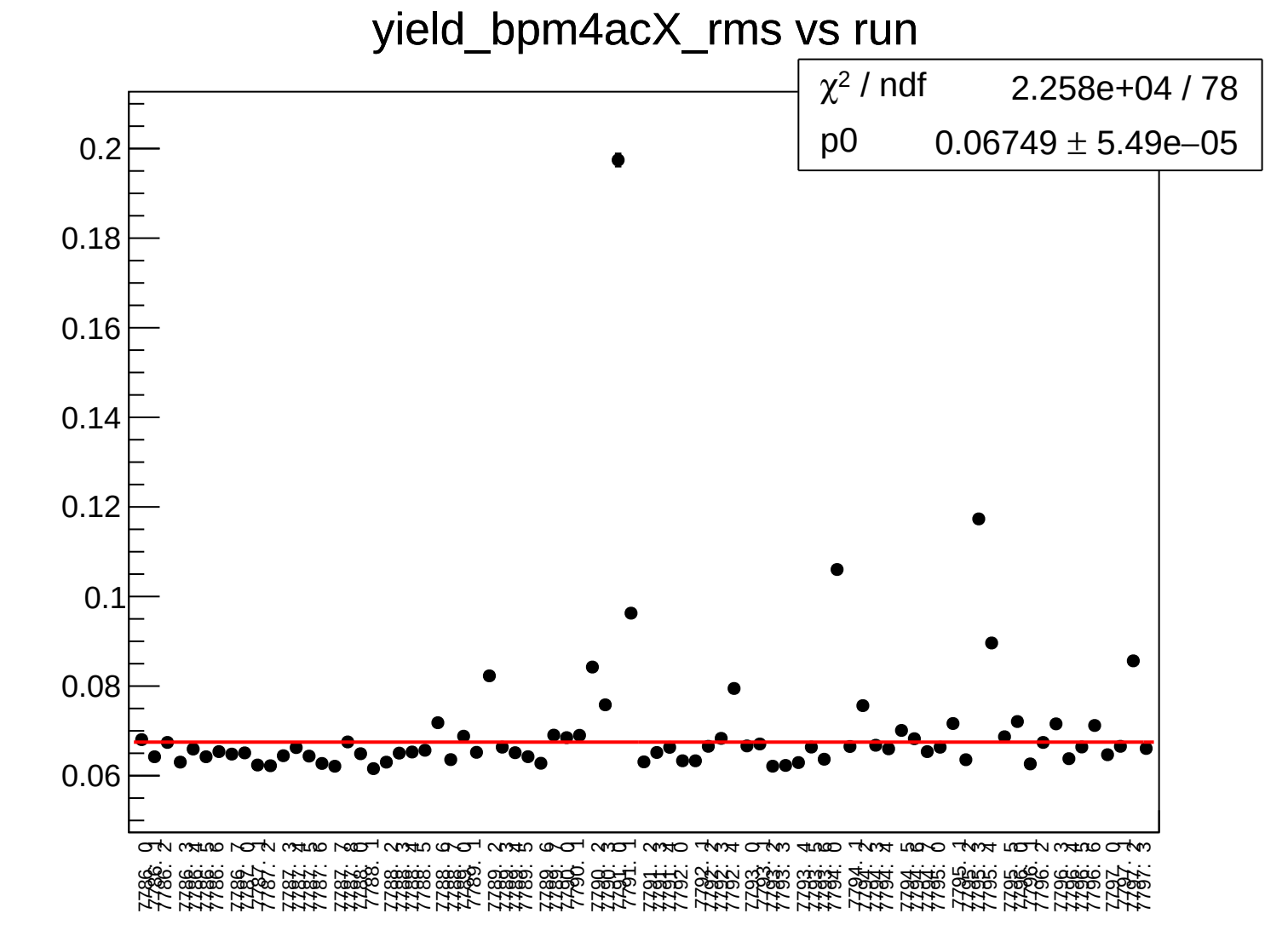

yield_bpm4eY_mean vs run
χ² / ndf 1.466e+05 / 78
p0 0.2092 ± 1.487e−05
0.25
0.24
0.23
0.22
0.21
0.2
0.19
pull
Entries 79
Mean 423.7
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120

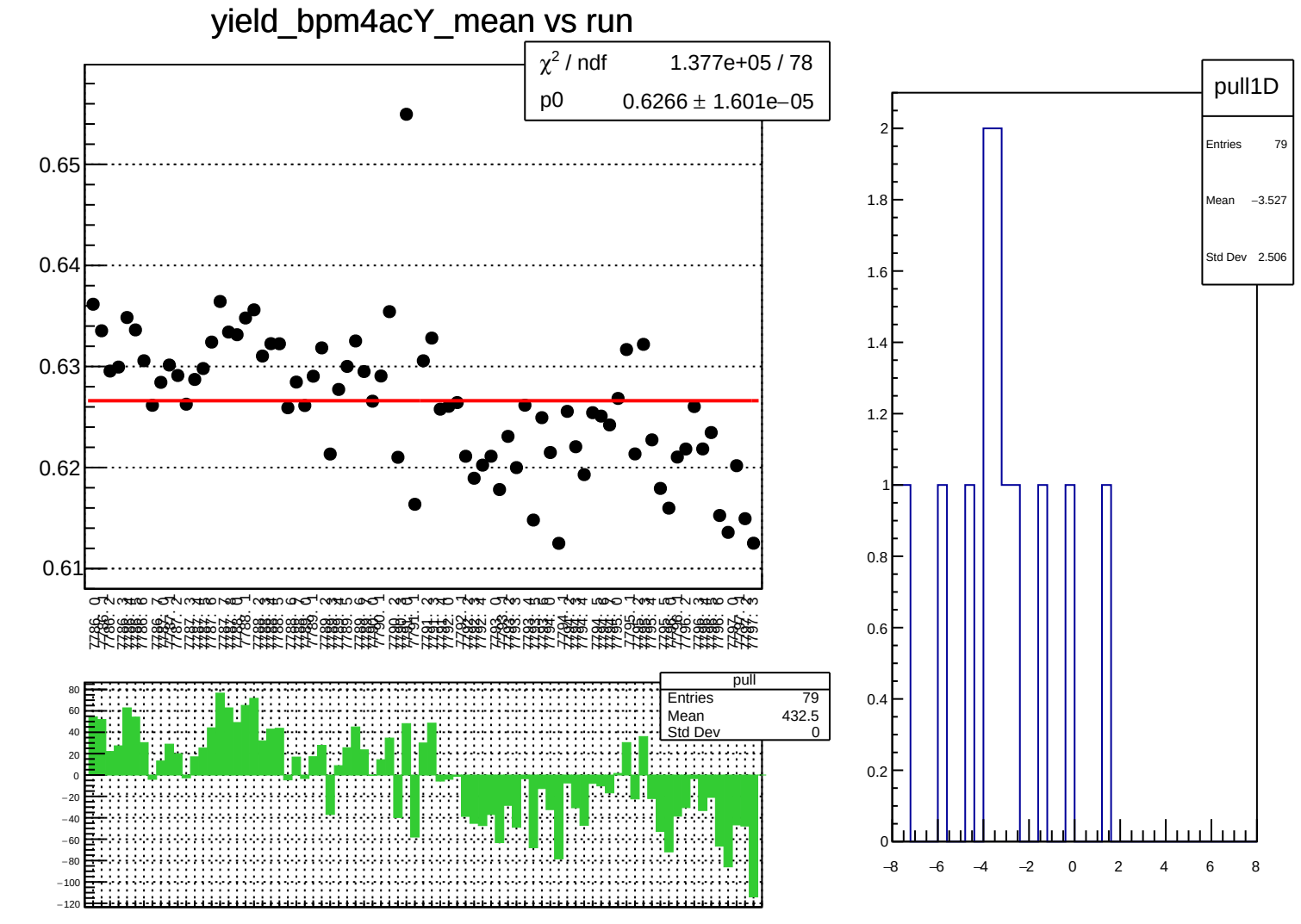

pull1D
Entries 79
Mean 0.1846
Std Dev 3.196
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

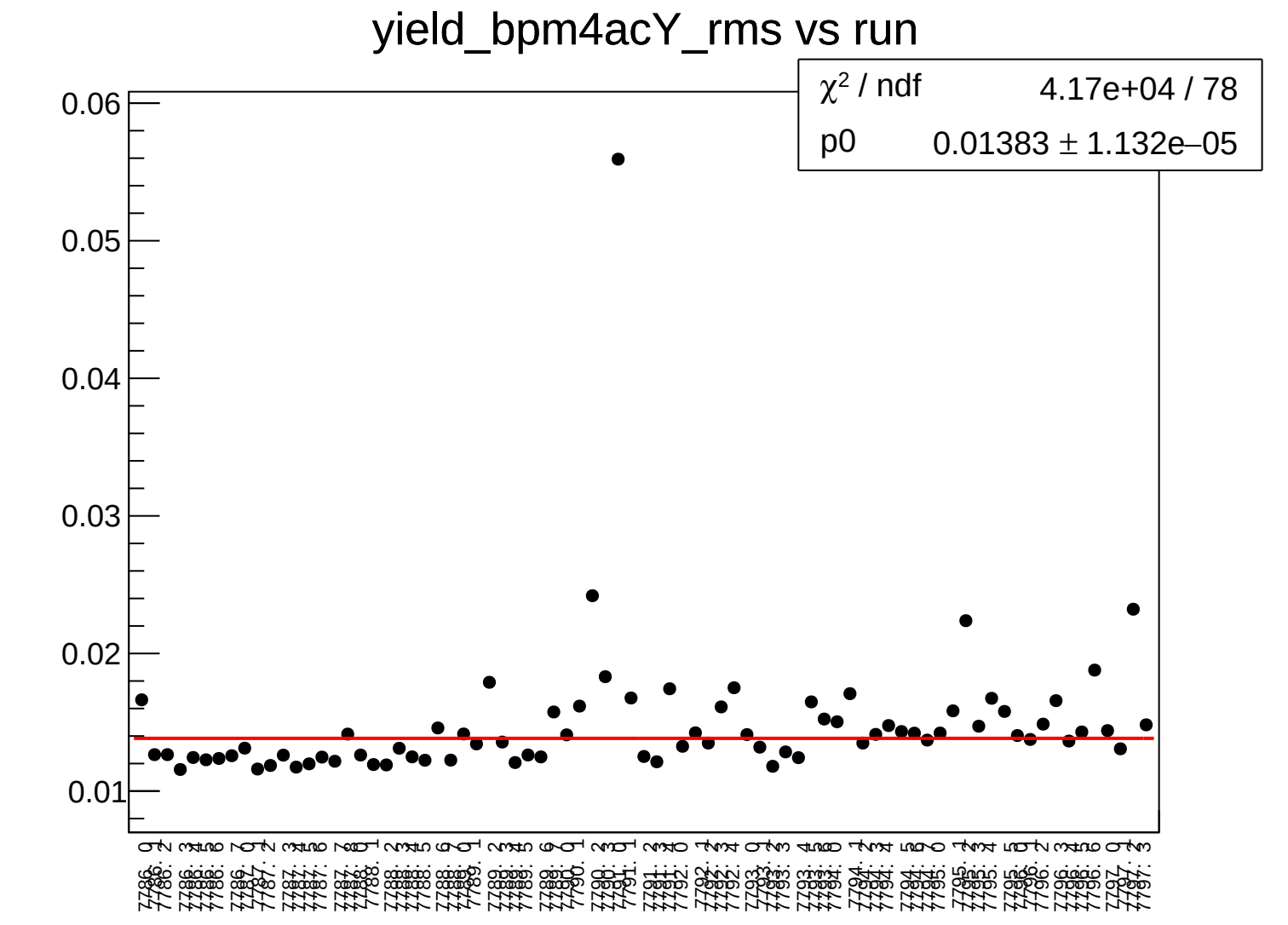

yield_bpm4eY_rms vs run
χ² / ndf 5.497e+04 / 78
p0 0.01279 ± 1.051e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

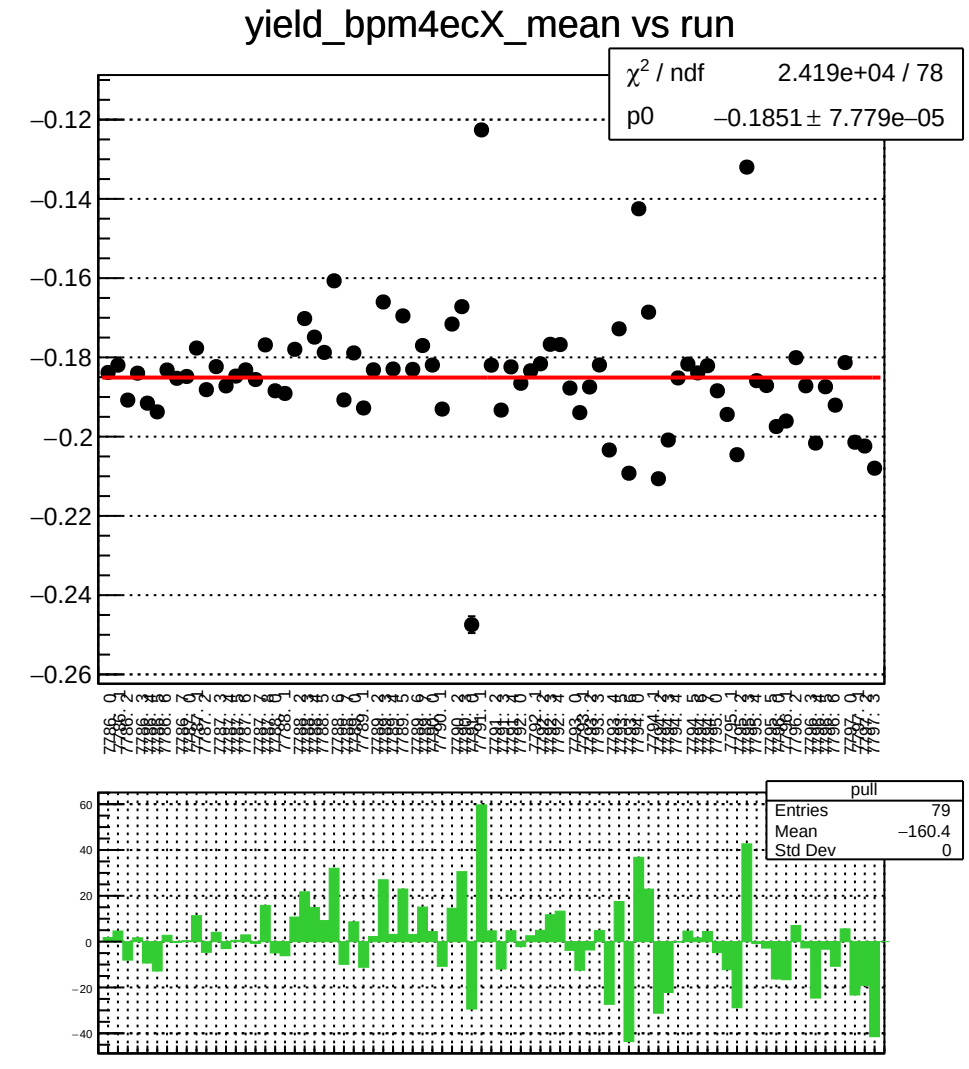

yield_bpm4acX_mean vs run
χ² / ndf 2.418e+04 / 78
p0 −0.9185 ± 7.764e−05
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
pull
Entries 79
Mean −162.5
Std Dev 0
60
40
20
0
−20
−40

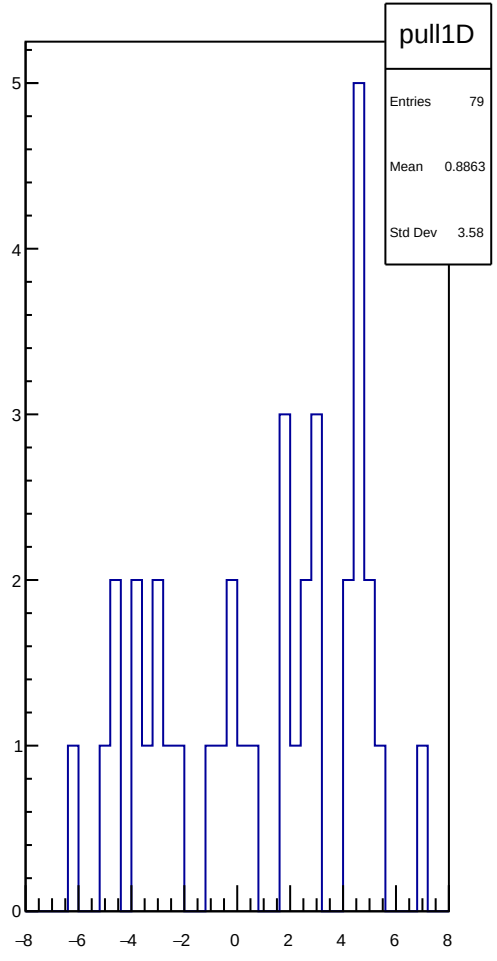

pull1D
Entries 79
Mean 0.8329
Std Dev 3.905
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

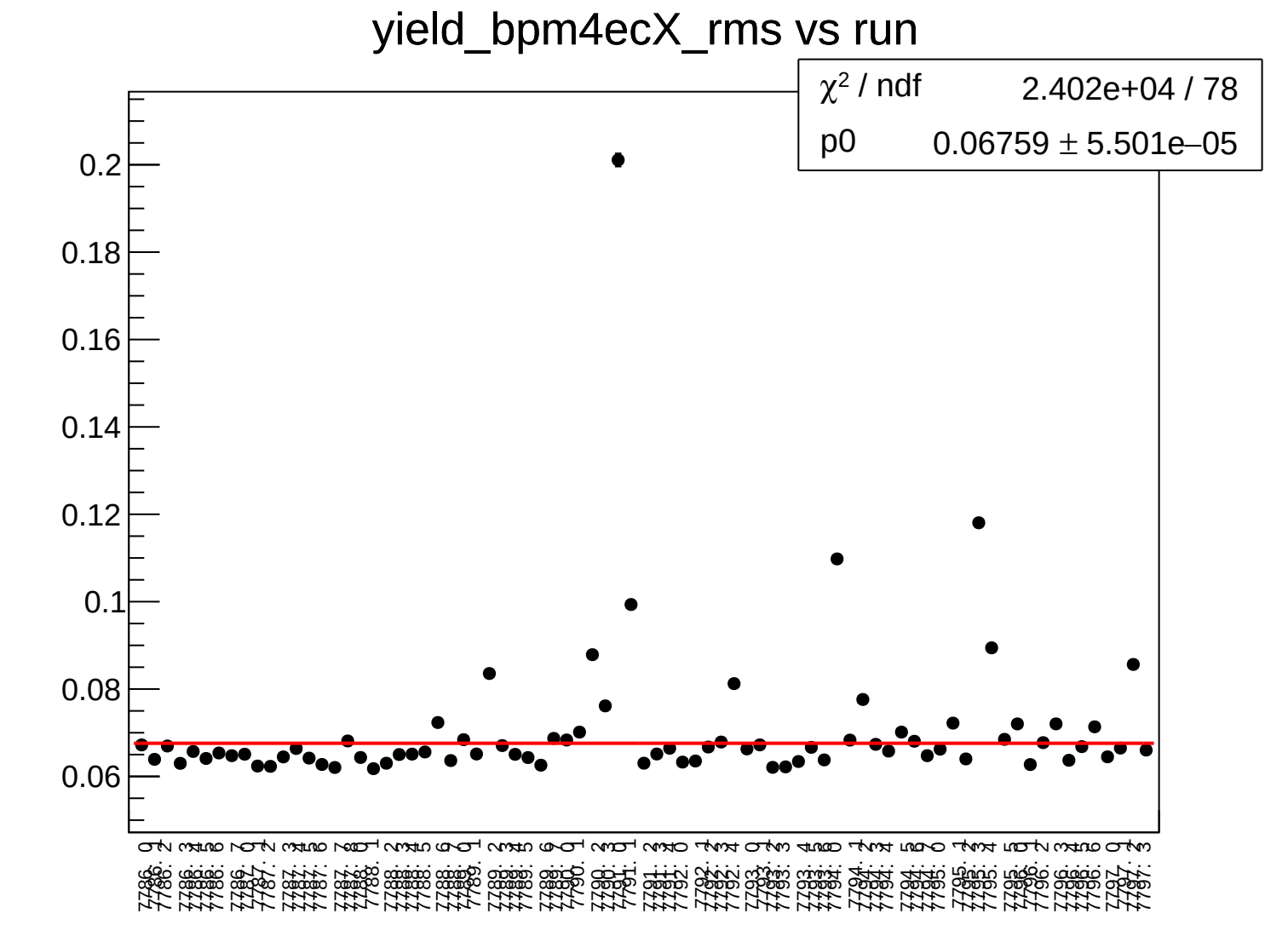

yield_bpm4acX_rms vs run
χ² / ndf 2.258e+04 / 78
p0 0.06749 ± 5.49e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

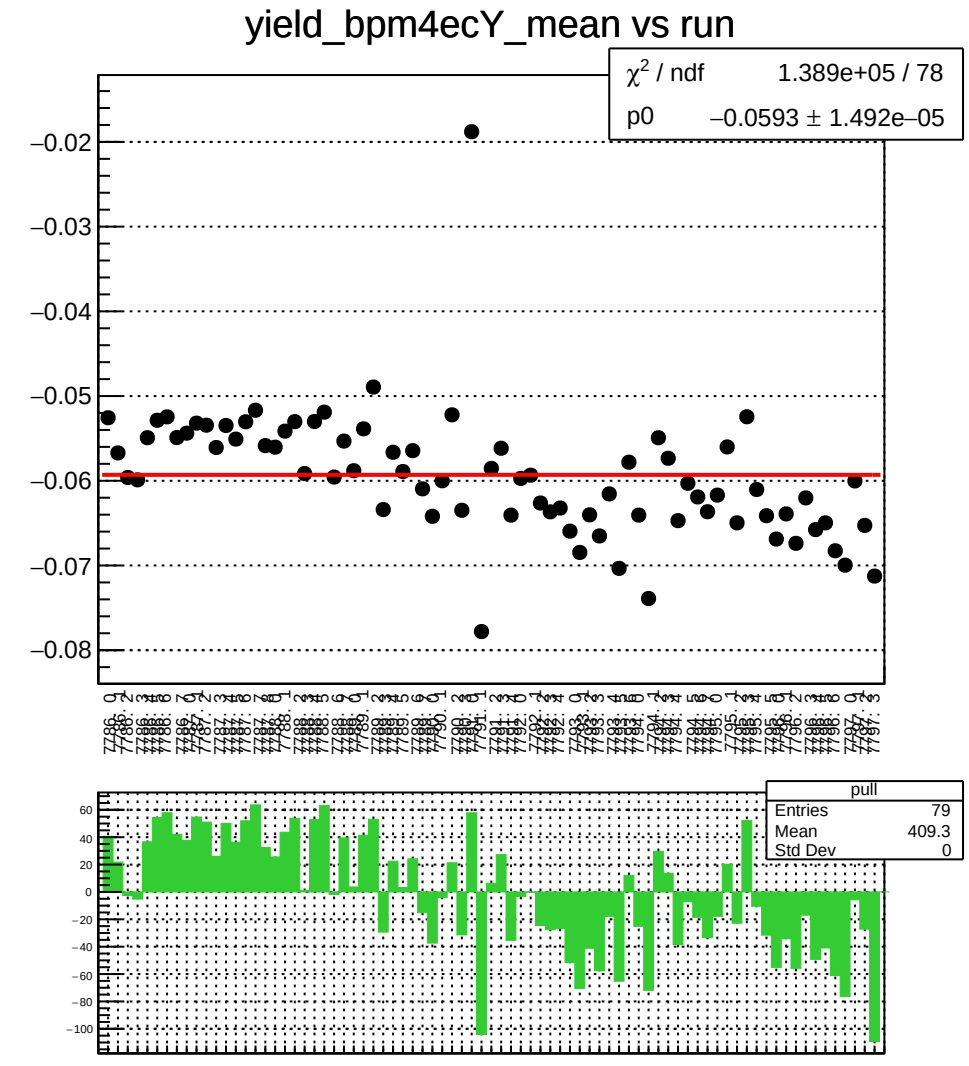

yield_bpm4acY_mean vs run
χ² / ndf 1.377e+05 / 78
p0 0.6266 ± 1.601e−05
0.65
0.64
0.63
0.62
0.61
pull
Entries 79
Mean 432.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 79
Mean −3.527
Std Dev 2.506
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

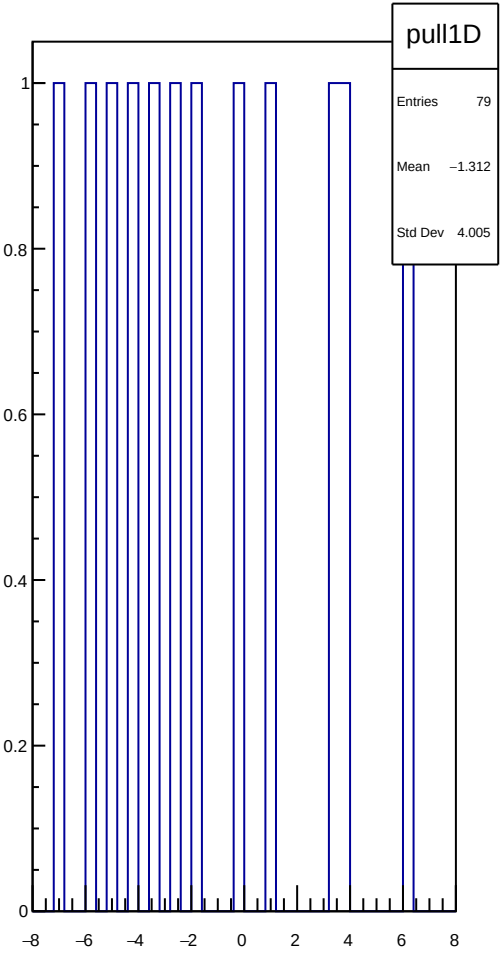

yield_bpm4acY_rms vs run
χ² / ndf 4.17e+04 / 78
p0 0.01383 ± 1.132e–05
0.06
0.05
0.04
0.03
0.02
0.01

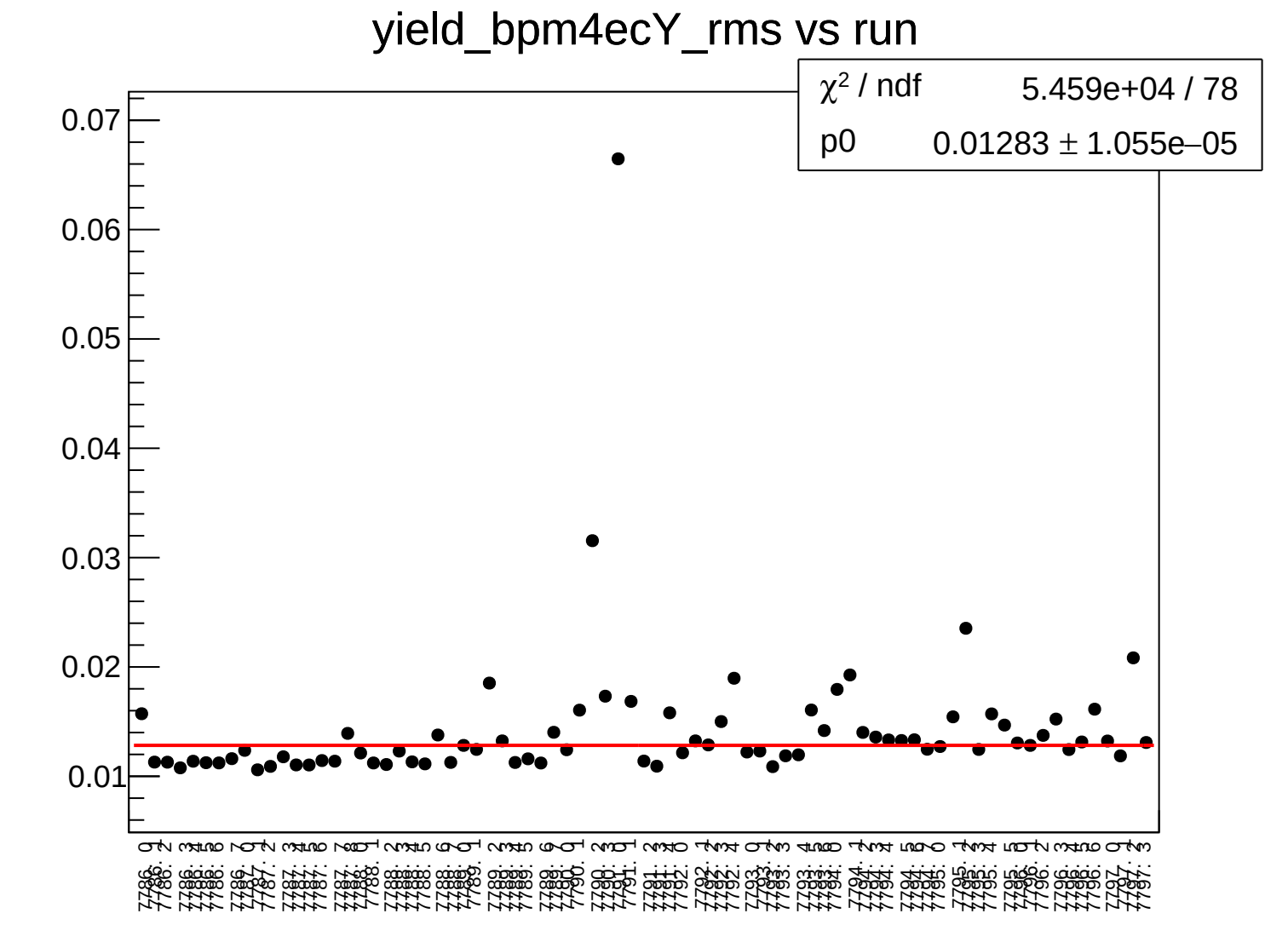

yield_bpm4ecX_mean vs run
χ² / ndf 2.419e+04 / 78
p0 −0.1851 ± 7.779e−05
pull
Entries 79
Mean −160.4
Std Dev 0

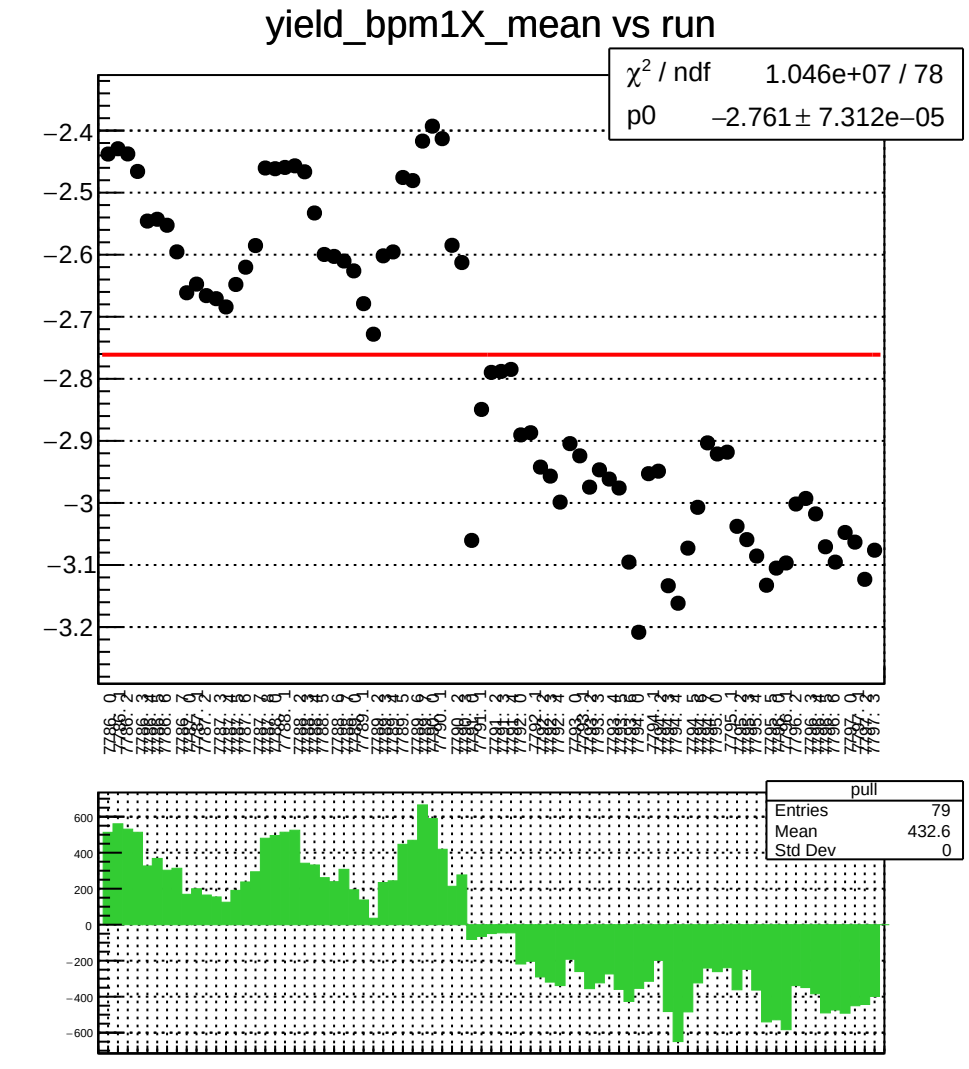

pull1D
Entries 79
Mean 0.8863
Std Dev 3.58

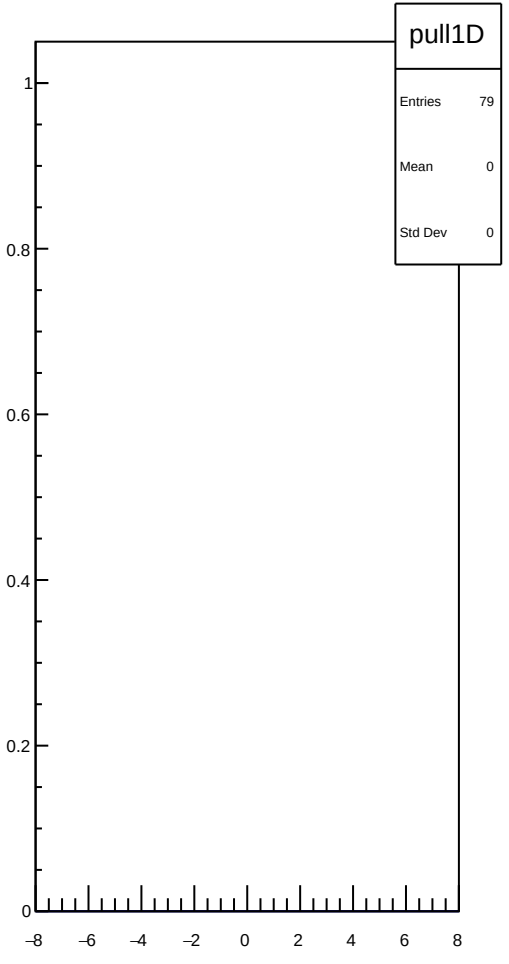

yield_bpm4ecX_rms vs run
χ² / ndf 2.402e+04 / 78
p0 0.06759 ± 5.501e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

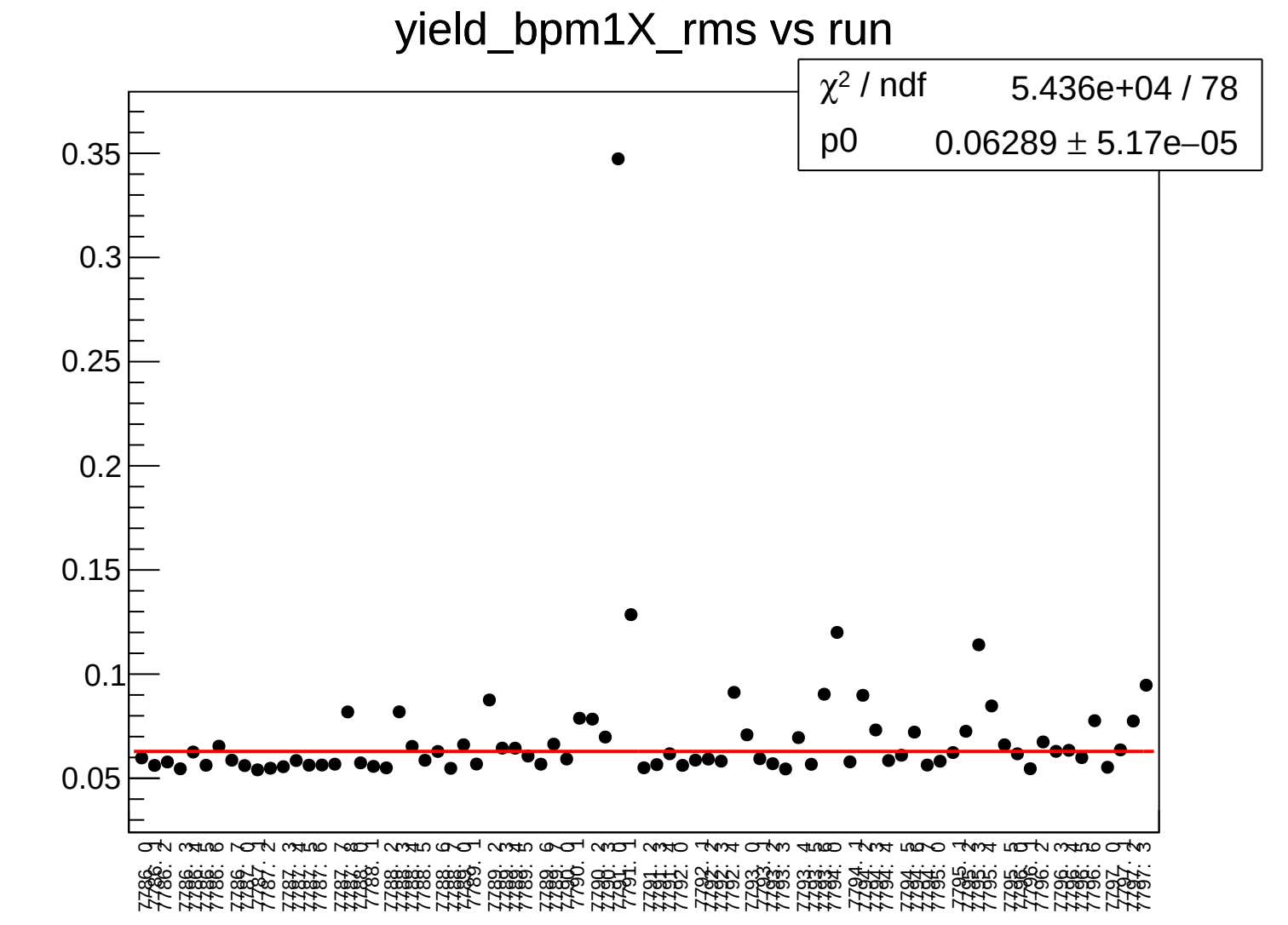

yield_bpm4ecY_mean vs run
χ² / ndf 1.389e+05 / 78
p0 −0.0593 ± 1.492e−05
pull
Entries 79
Mean 409.3
Std Dev 0

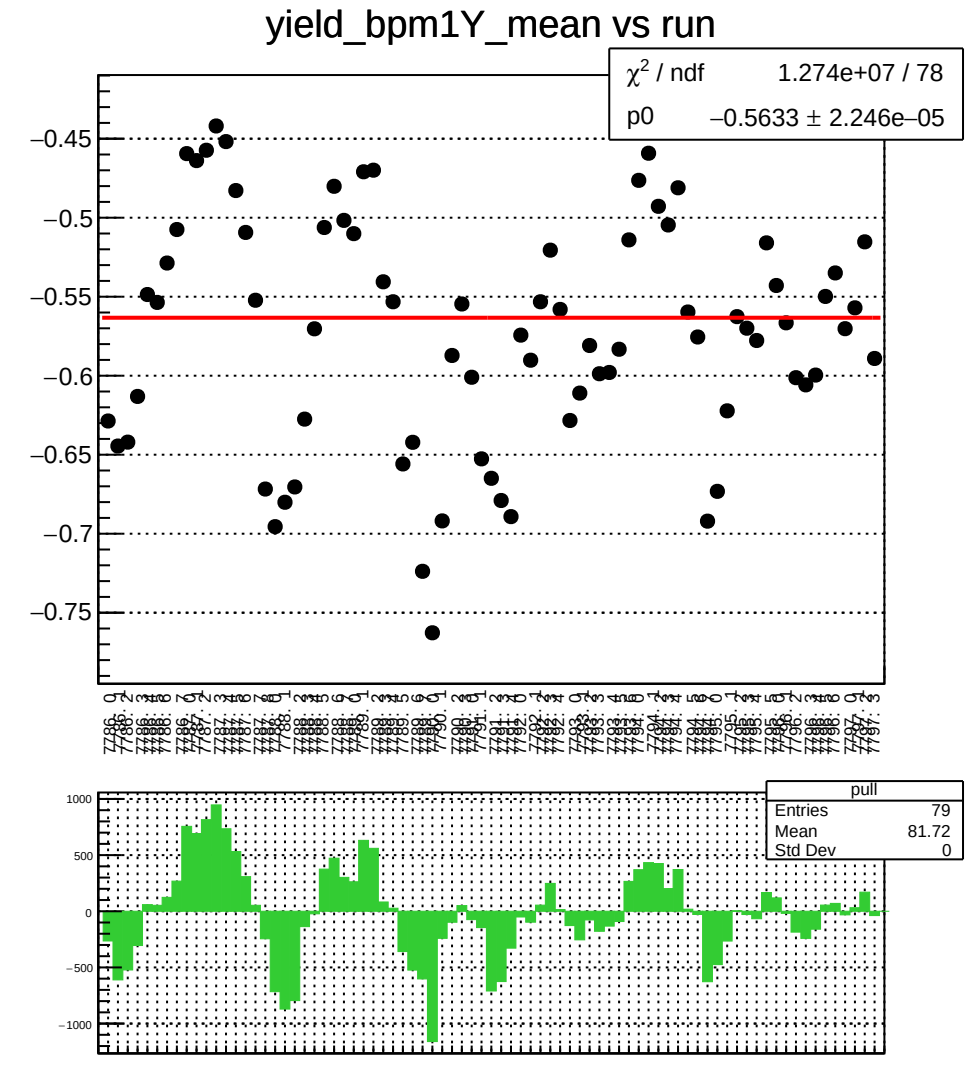

pull1D
Entries 79
Mean −1.312
Std Dev 4.005

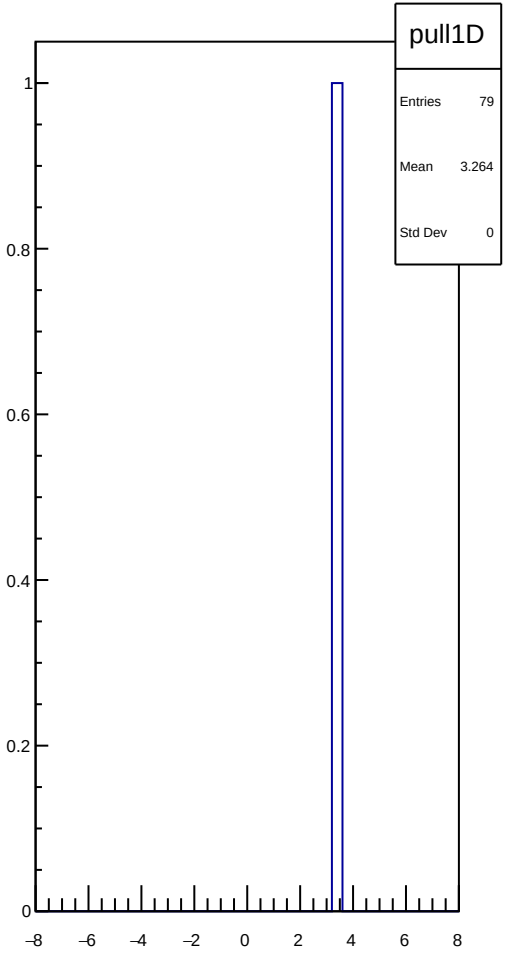

yield_bpm4ecY_rms vs run
χ² / ndf 5.459e+04 / 78
p0 0.01283 ± 1.055e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

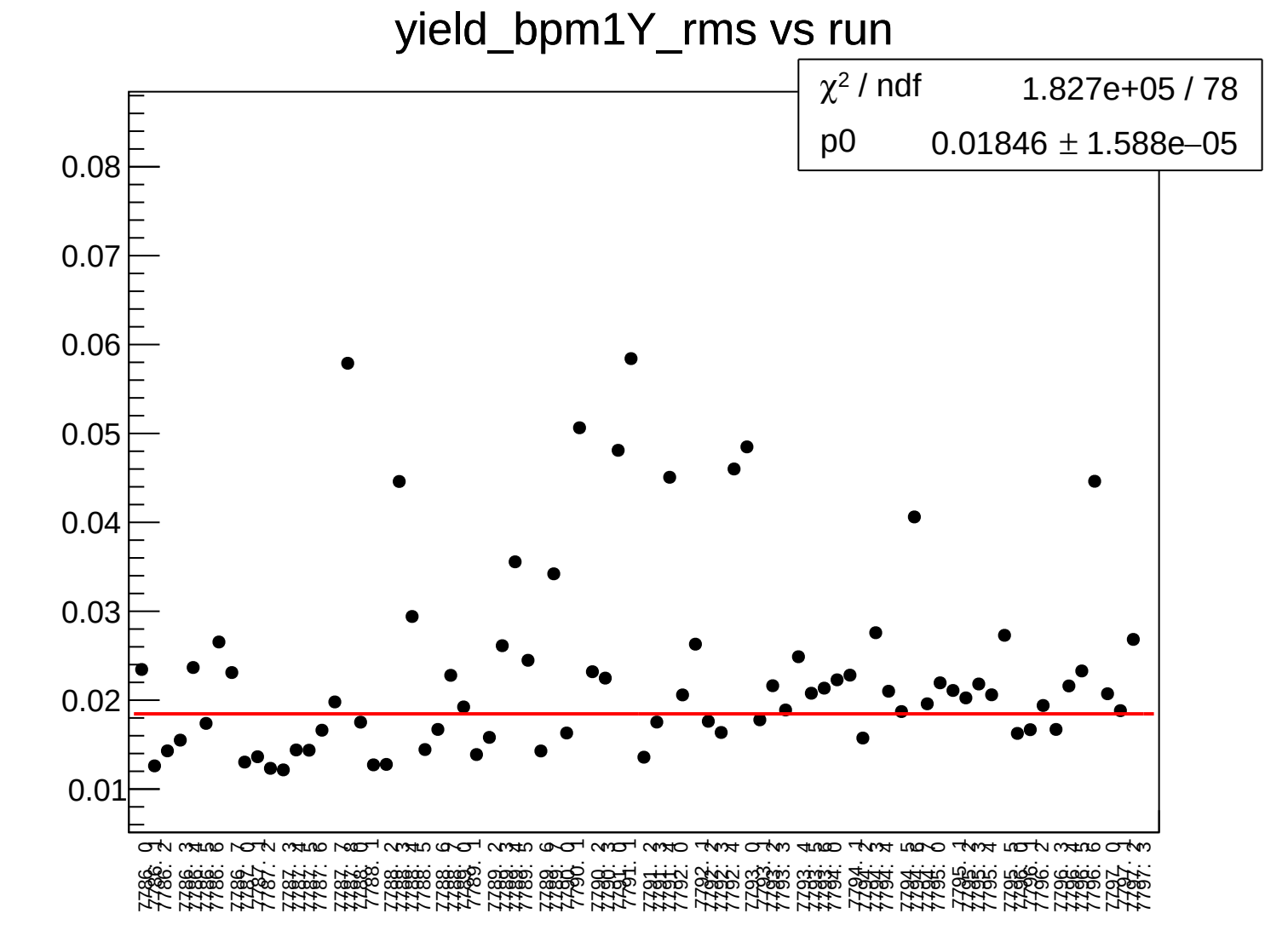

yield_bpm1X_mean vs run
χ² / ndf 1.046e+07 / 78
p0 −2.761 ± 7.312e−05
−2.4
−2.5
−2.6
−2.7
−2.8
−2.9
−3
−3.1
−3.2
pull
Entries 79
Mean 432.6
Std Dev 0
600
400
200
0
−200
−400
−600

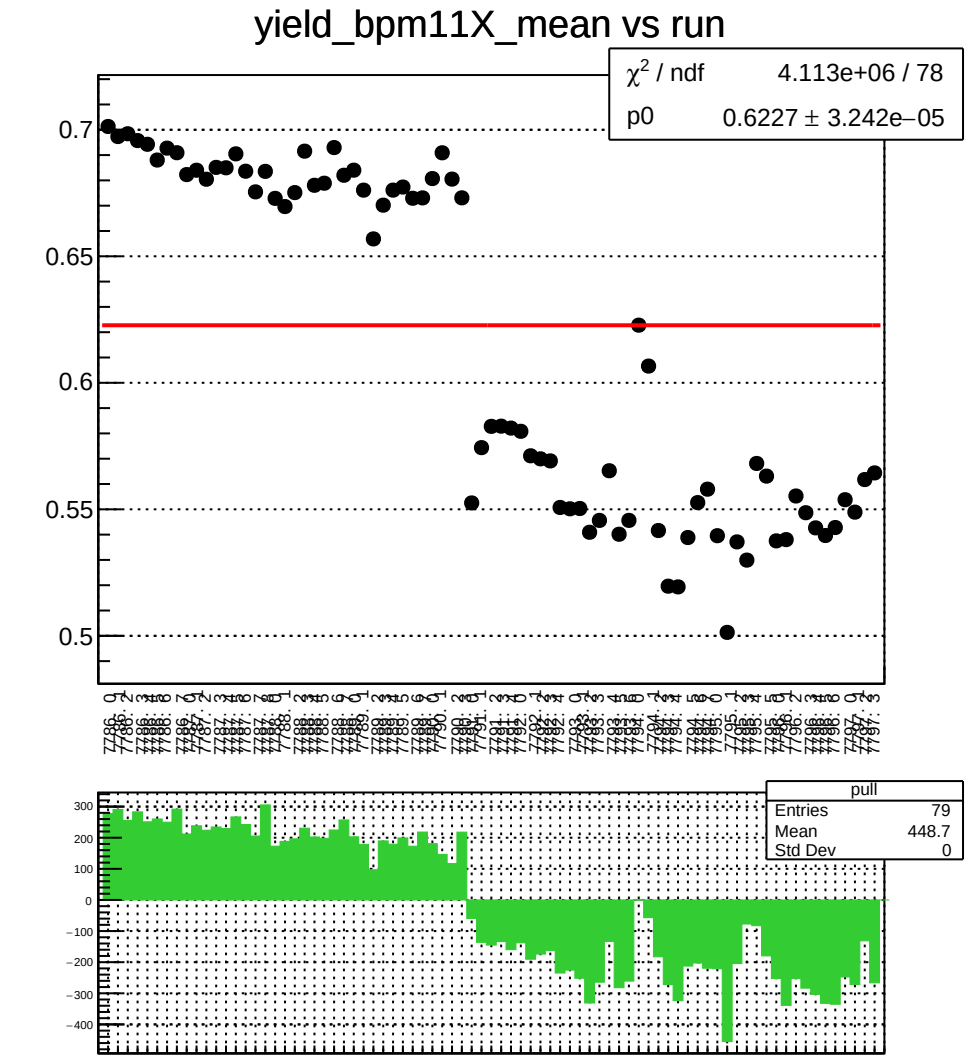

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

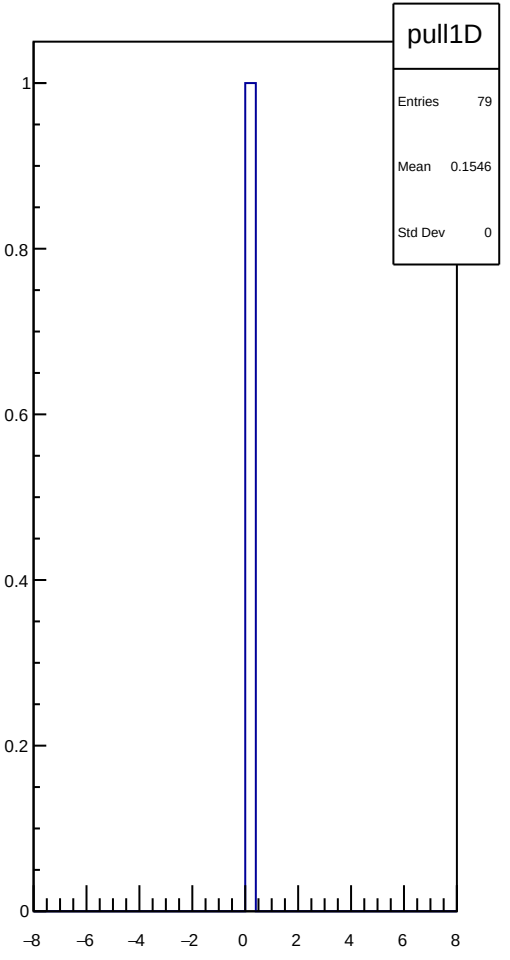

yield_bpm1X_rms vs run
χ² / ndf 5.436e+04 / 78
p0 0.06289 ± 5.17e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

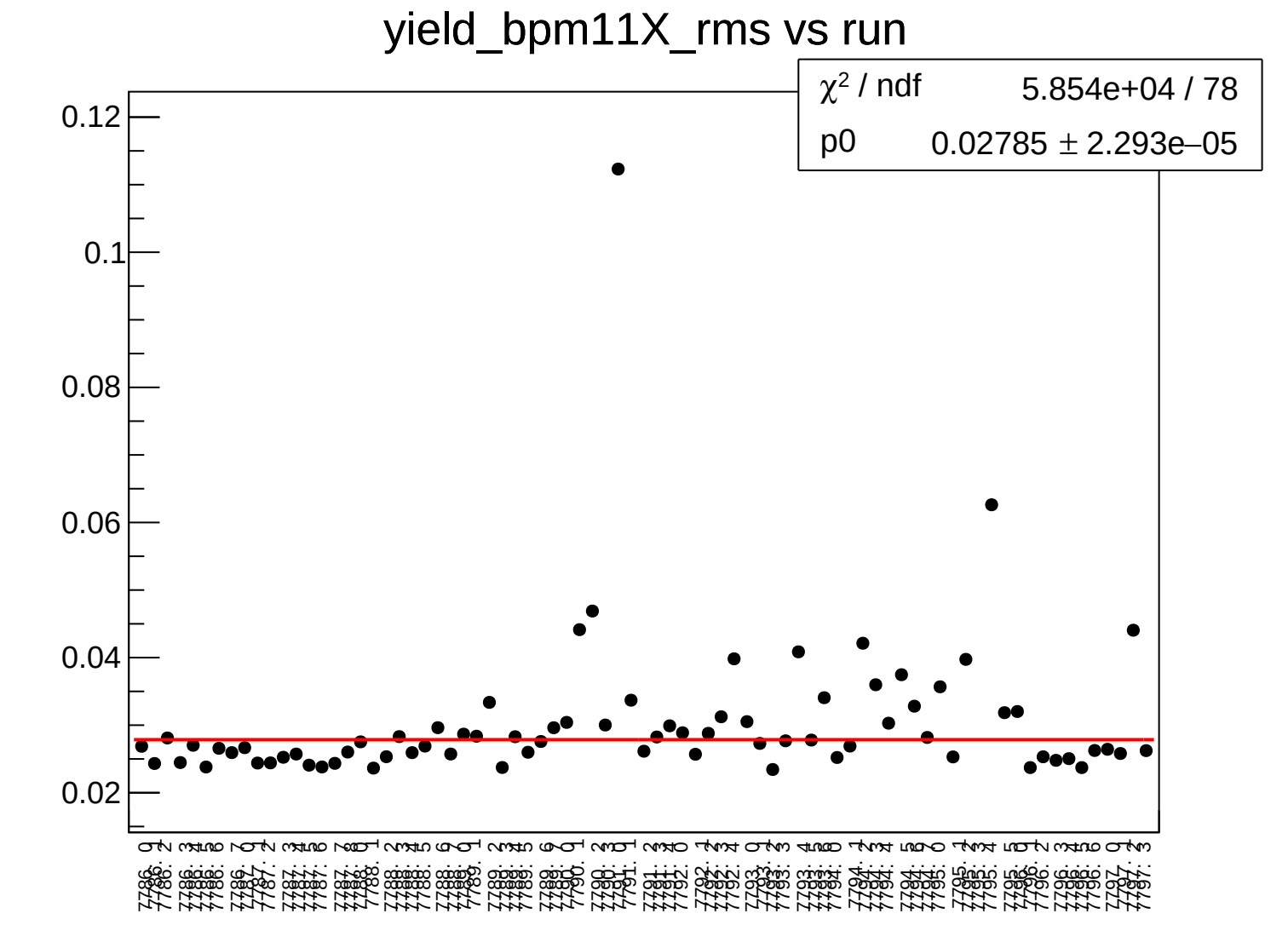

yield_bpm1Y_mean vs run
χ² / ndf 1.274e+07 / 78
p0 −0.5633 ± 2.246e−05
−0.45
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 79
Mean 81.72
Std Dev 0
1000
500
0
−500
−1000

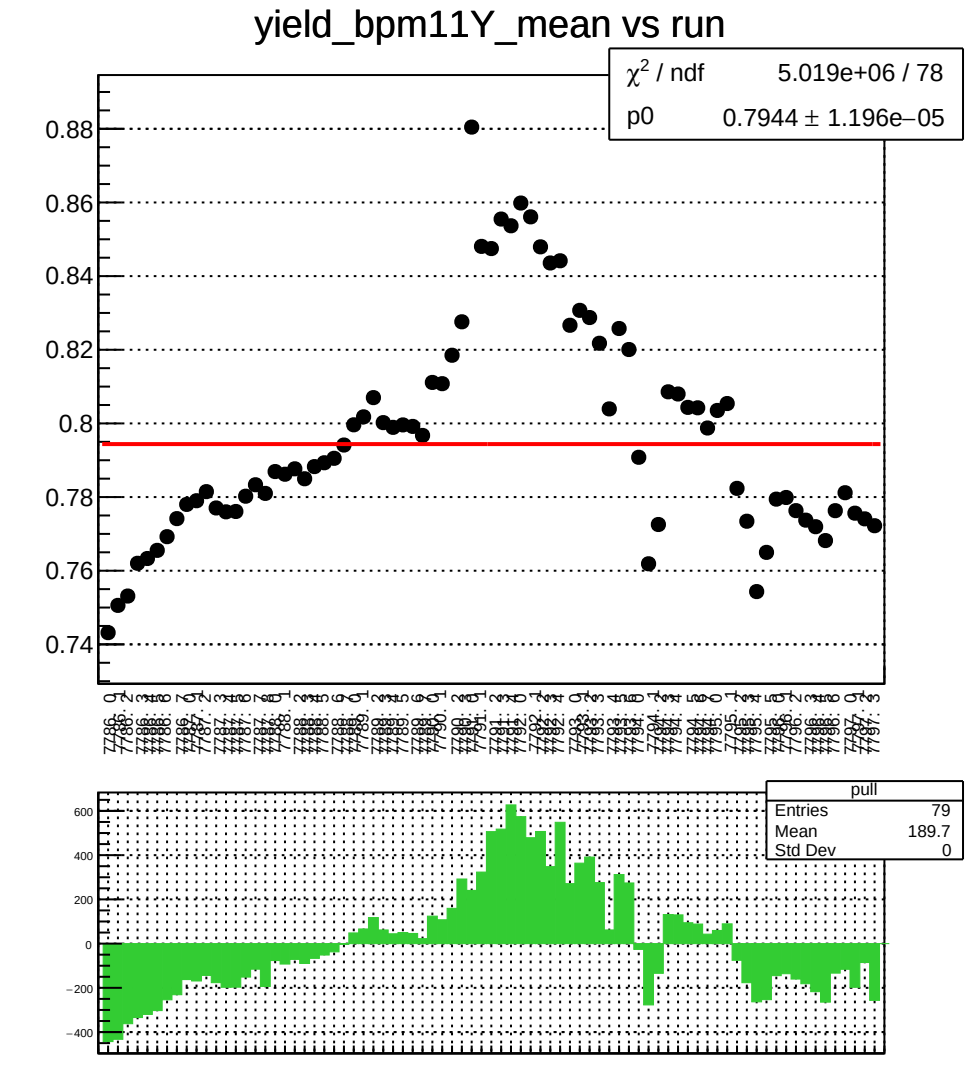

pull1D
Entries 79
Mean 3.264
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

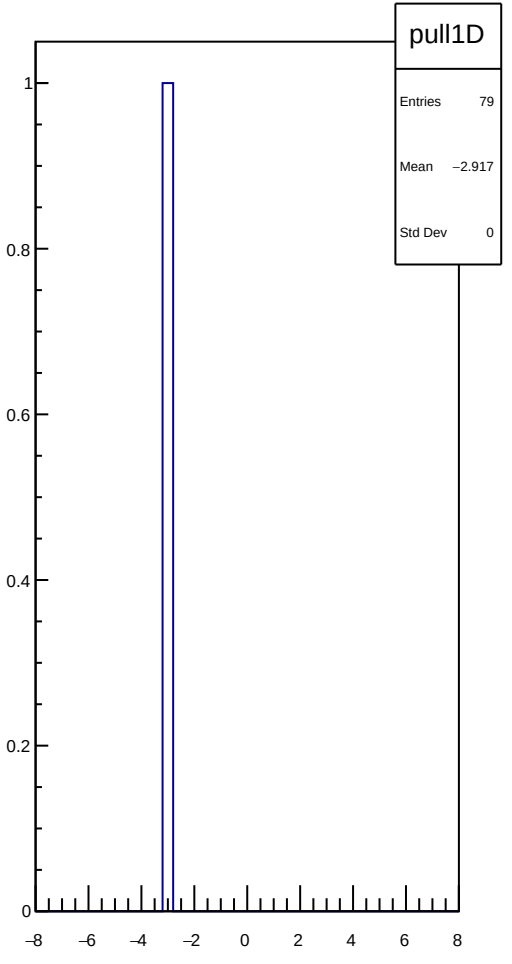

yield_bpm1Y_rms vs run
χ² / ndf 1.827e+05 / 78
p0 0.01846 ± 1.588e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

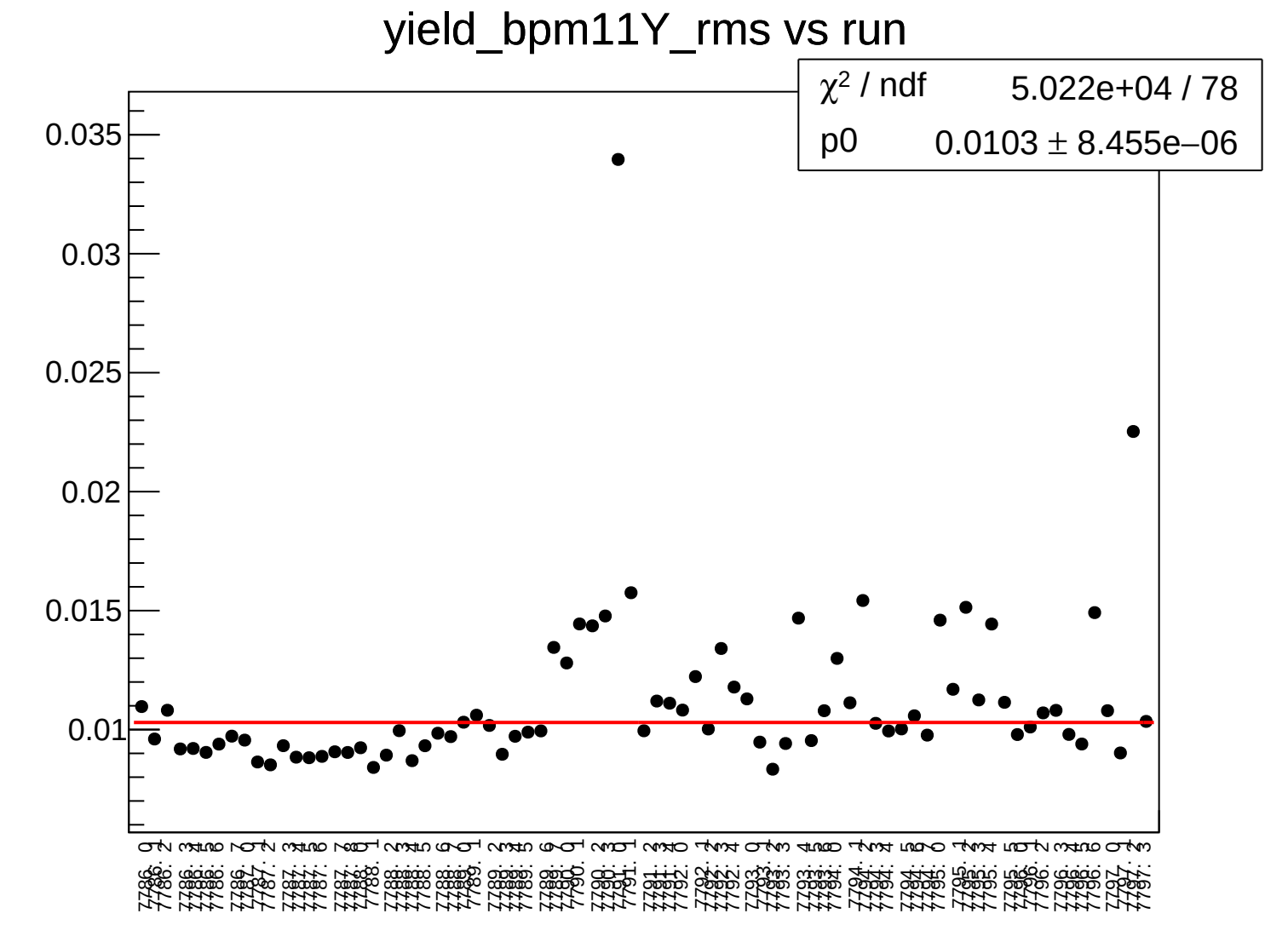

yield_bpm11X_mean vs run
χ² / ndf 4.113e+06 / 78
p0 0.6227 ± 3.242e−05
0.7
0.65
0.6
0.55
0.5
pull
Entries 79
Mean 448.7
Std Dev 0
300
200
100
0
−100
−200
−300
−400

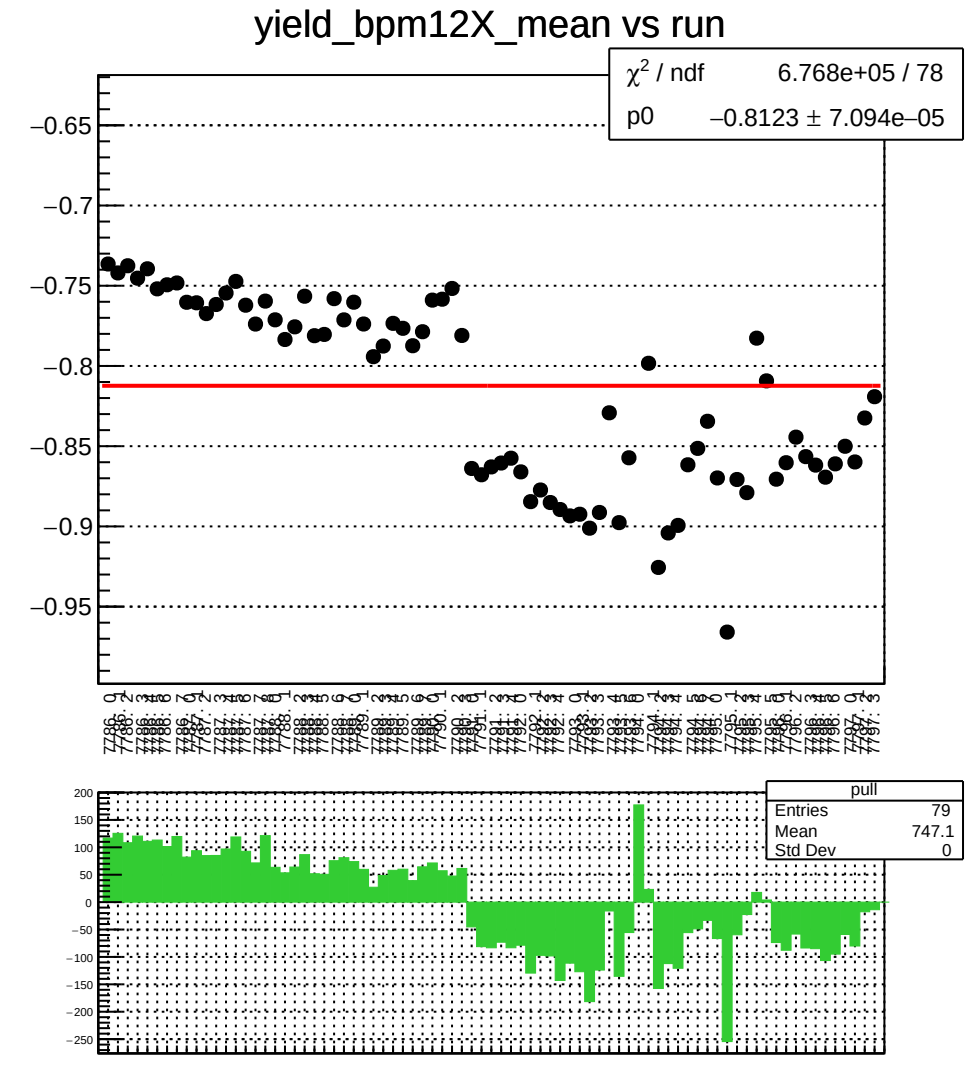

pull1D
Entries 79
Mean 0.1546
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

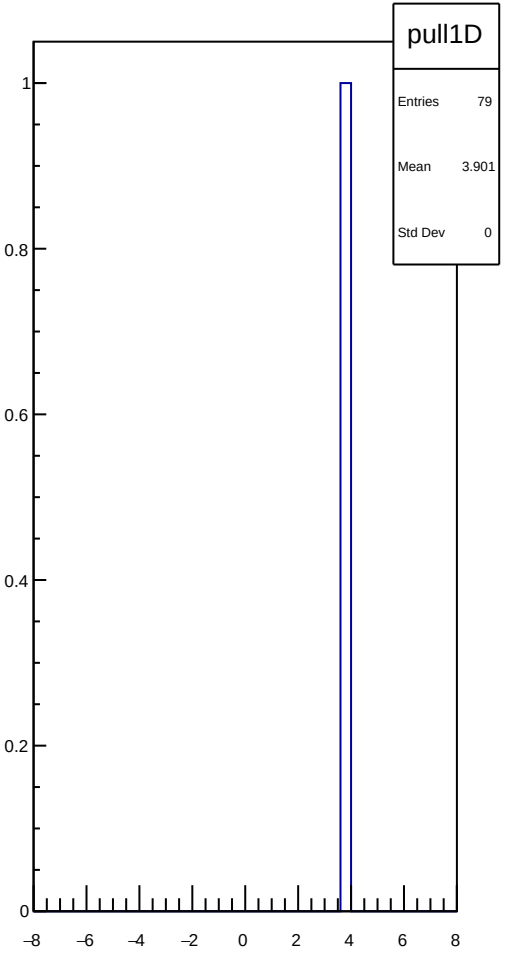

yield_bpm11X_rms vs run
χ² / ndf 5.854e+04 / 78
p0 0.02785 ± 2.293e–05
0.12
0.1
0.08
0.06
0.04
0.02

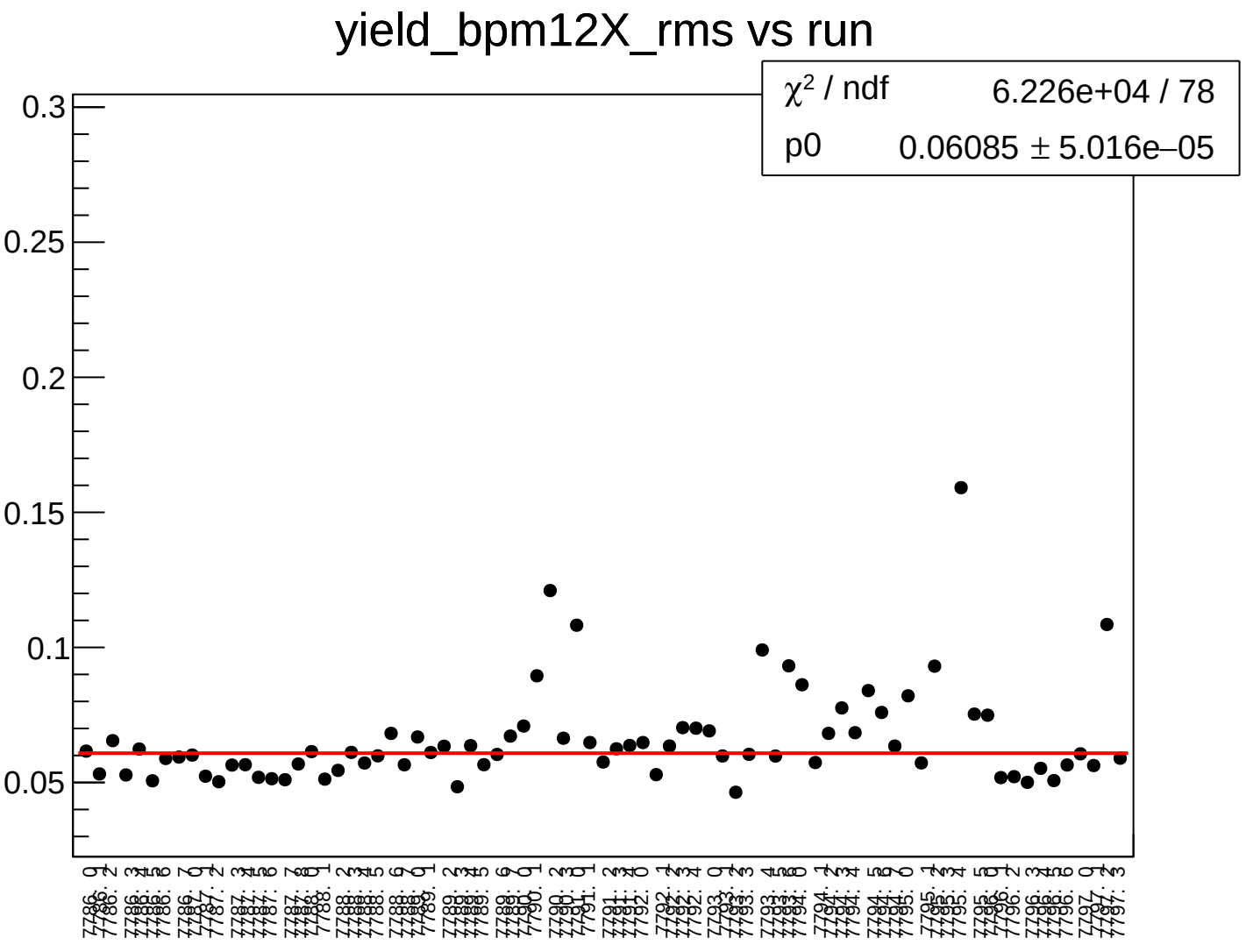

yield_bpm11Y_mean vs run
χ² / ndf 5.019e+06 / 78
p0 0.7944 ± 1.196e−05
0.88
0.86
0.84
0.82
0.8
0.78
0.76
0.74
pull
Entries 79
Mean 189.7
Std Dev 0
600
400
200
0
−200
−400

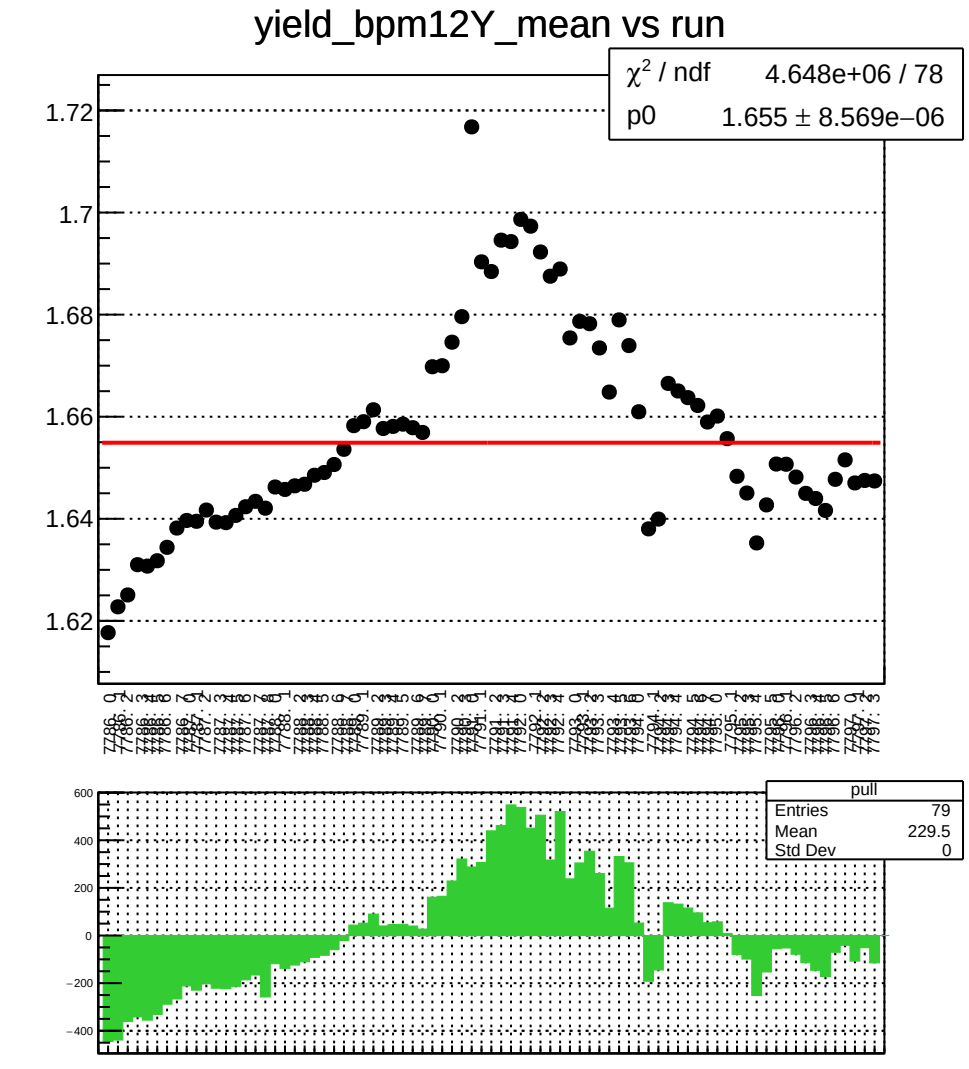

pull1D
Entries 79
Mean −2.917
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

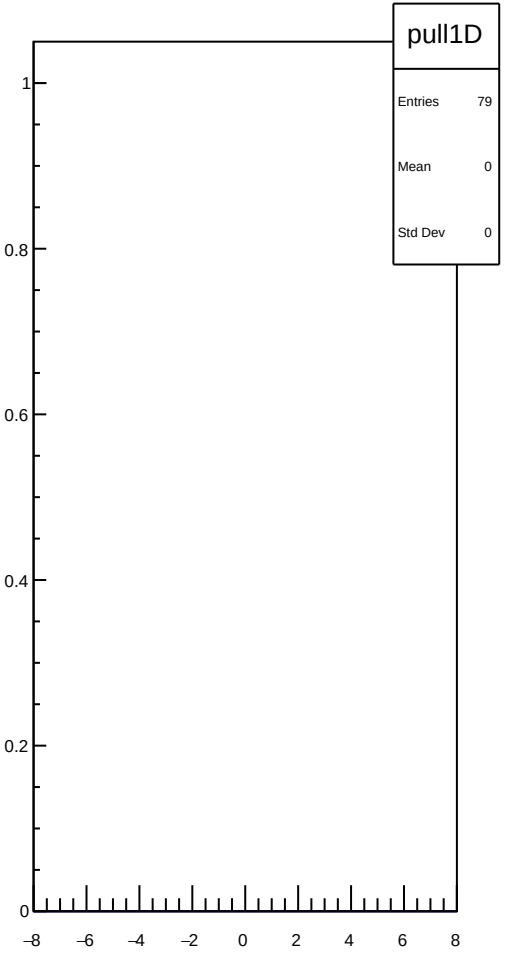

yield_bpm11Y_rms vs run
χ² / ndf 5.022e+04 / 78
p0 0.0103 ± 8.455e−06
0.035
0.03
0.025
0.02
0.015
0.01

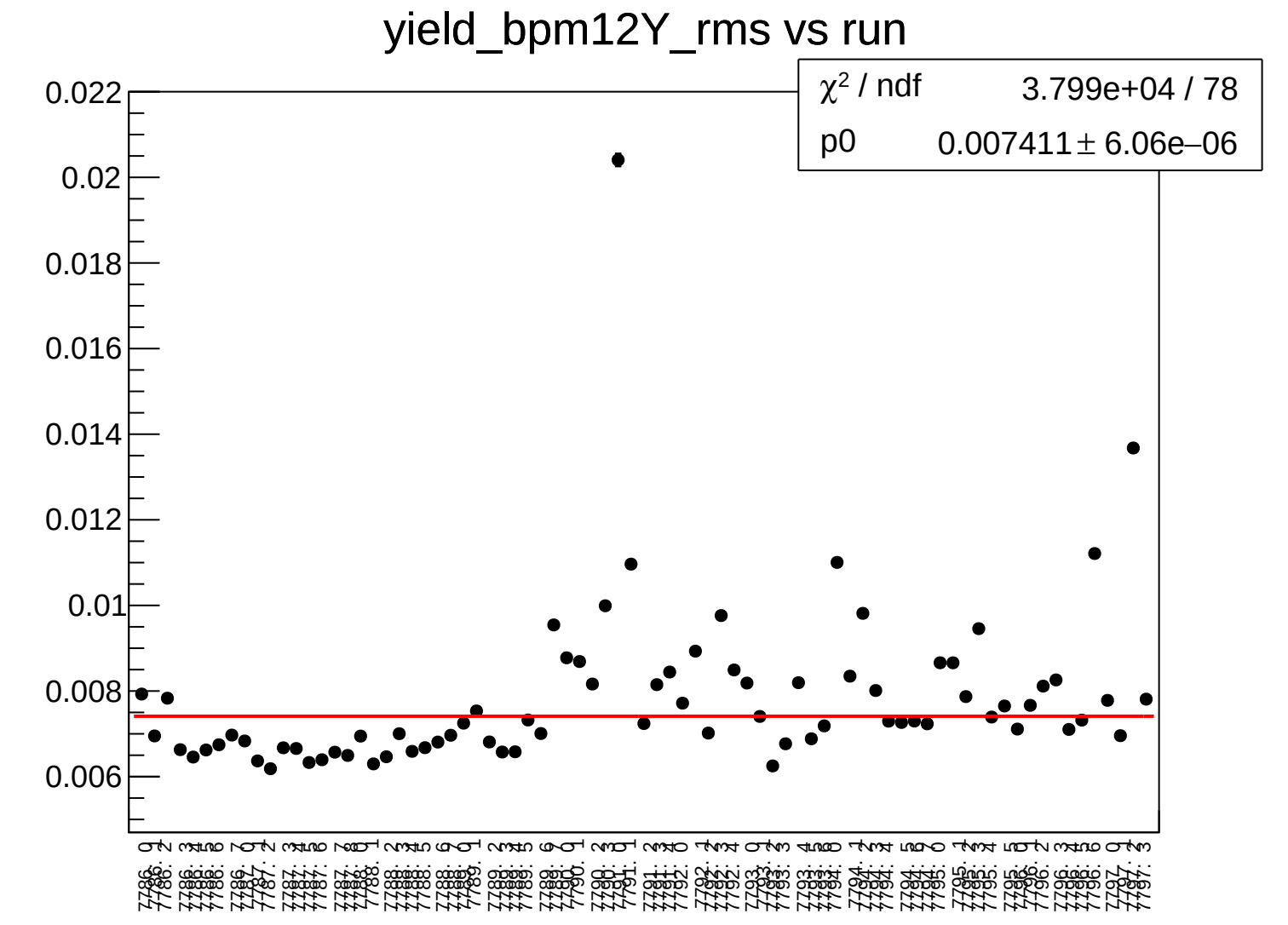

yield_bpm12X_mean vs run
χ² / ndf 6.768e+05 / 78
p0 −0.8123 ± 7.094e−05
pull
Entries 79
Mean 747.1
Std Dev 0

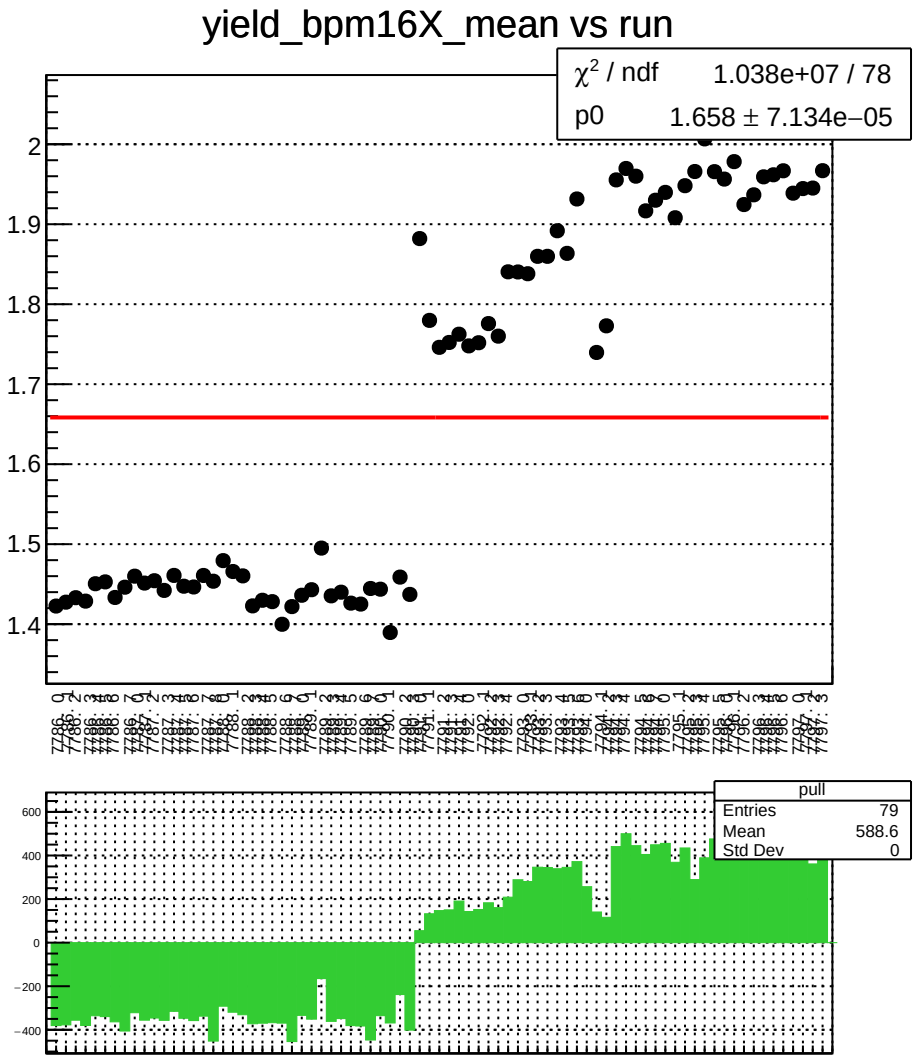

pull1D
Entries 79
Mean 3.901
Std Dev 0

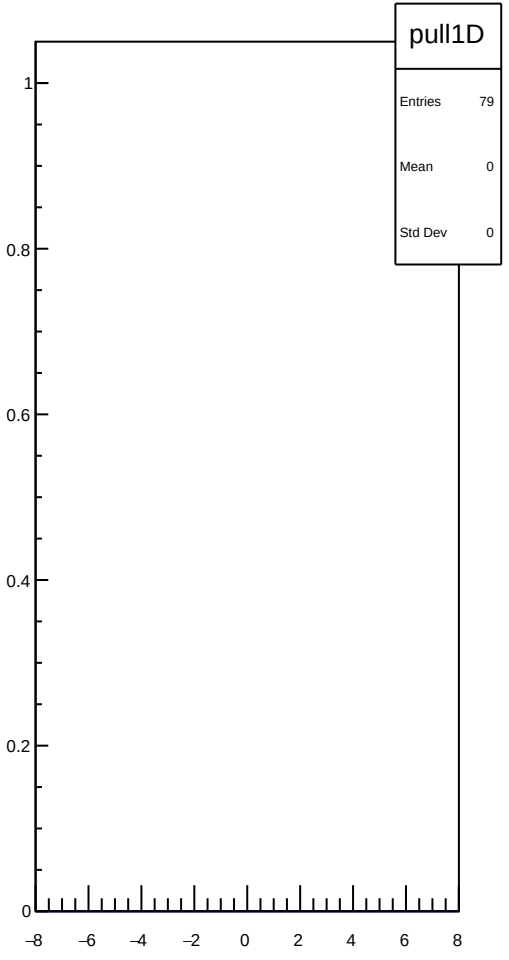

yield_bpm12X_rms vs run
χ² / ndf 6.226e+04 / 78
p0 0.06085 ± 5.016e–05
0.3
0.25
0.2
0.15
0.1
0.05

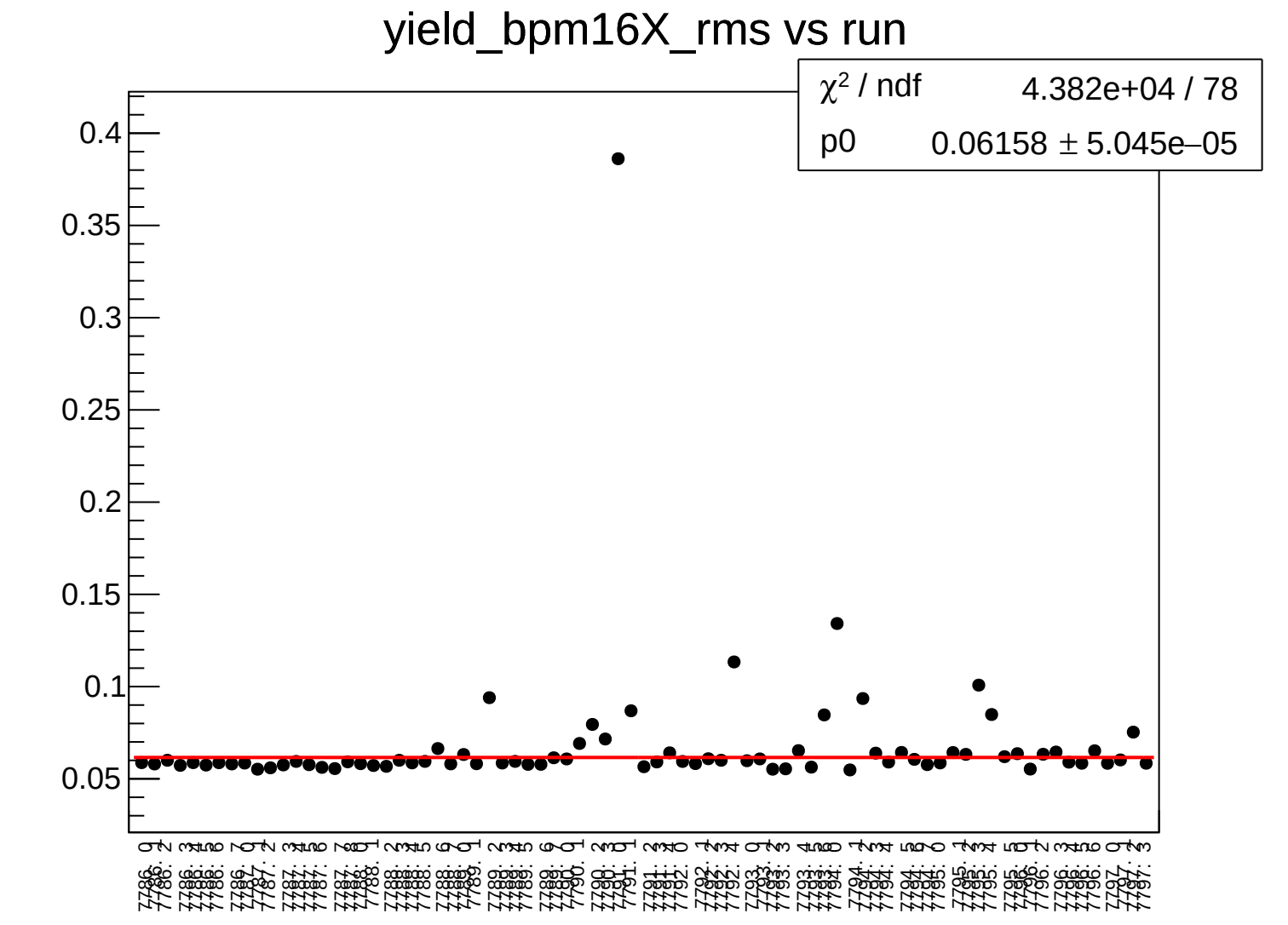

yield_bpm12Y_mean vs run
χ² / ndf 4.648e+06 / 78
p0 1.655 ± 8.569e−06
1.72
1.7
1.68
1.66
1.64
1.62
pull
Entries 79
Mean 229.5
Std Dev 0
600
400
200
0
−200
−400

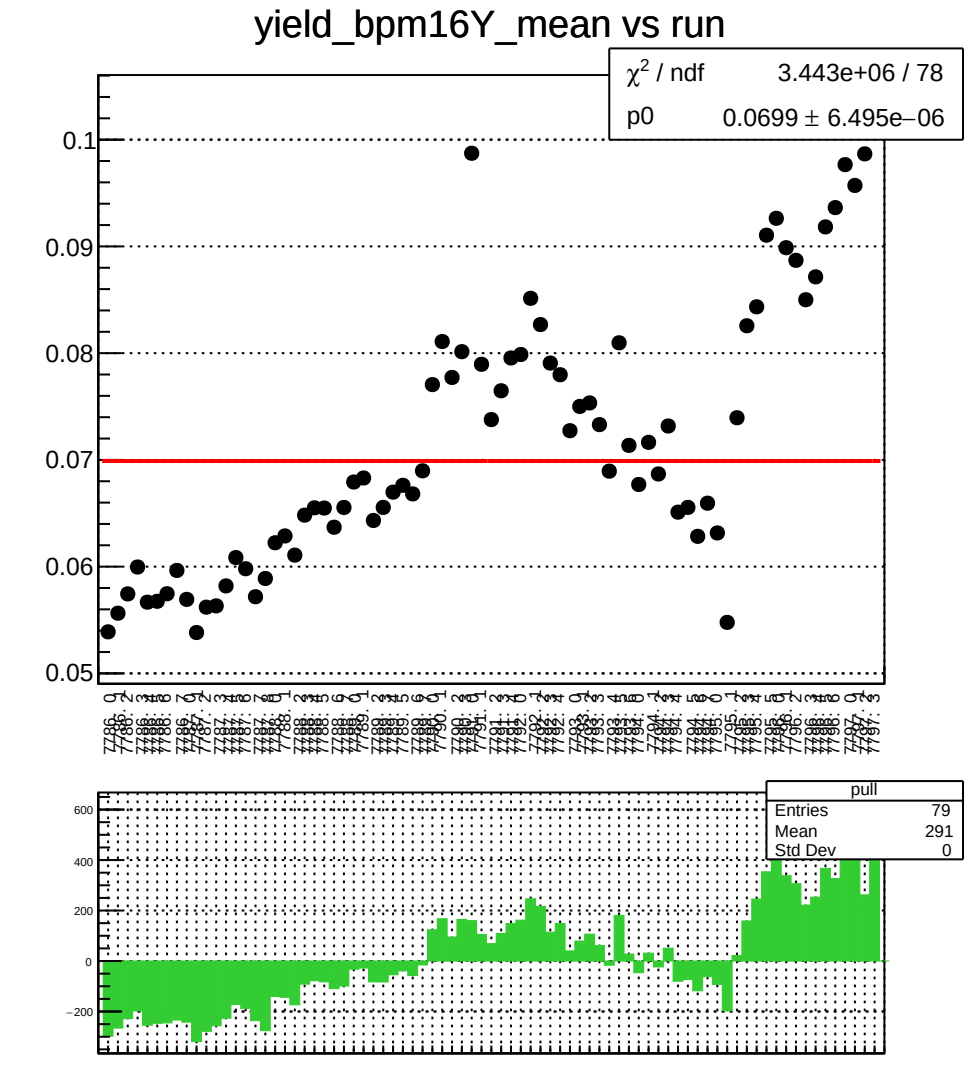

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

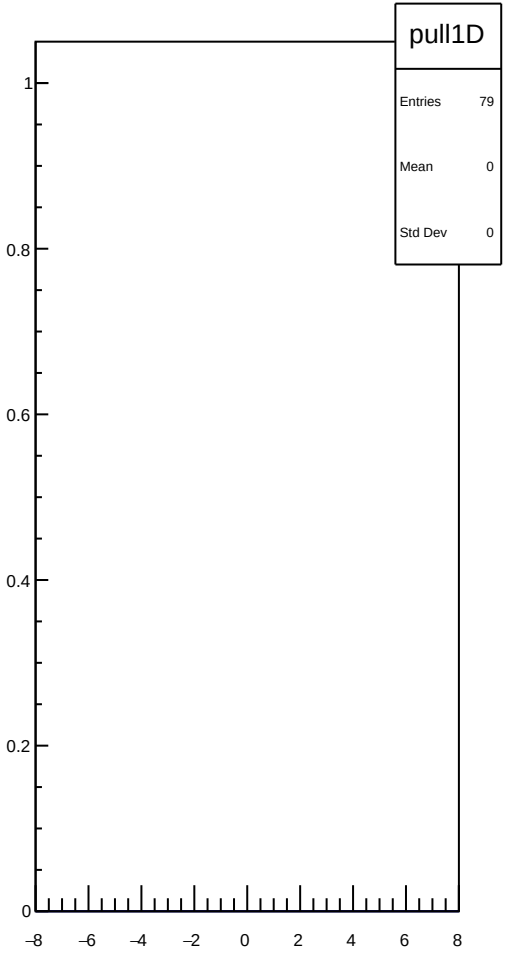

yield_bpm12Y_rms vs run
χ² / ndf 3.799e+04 / 78
p0 0.007411 ± 6.06e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

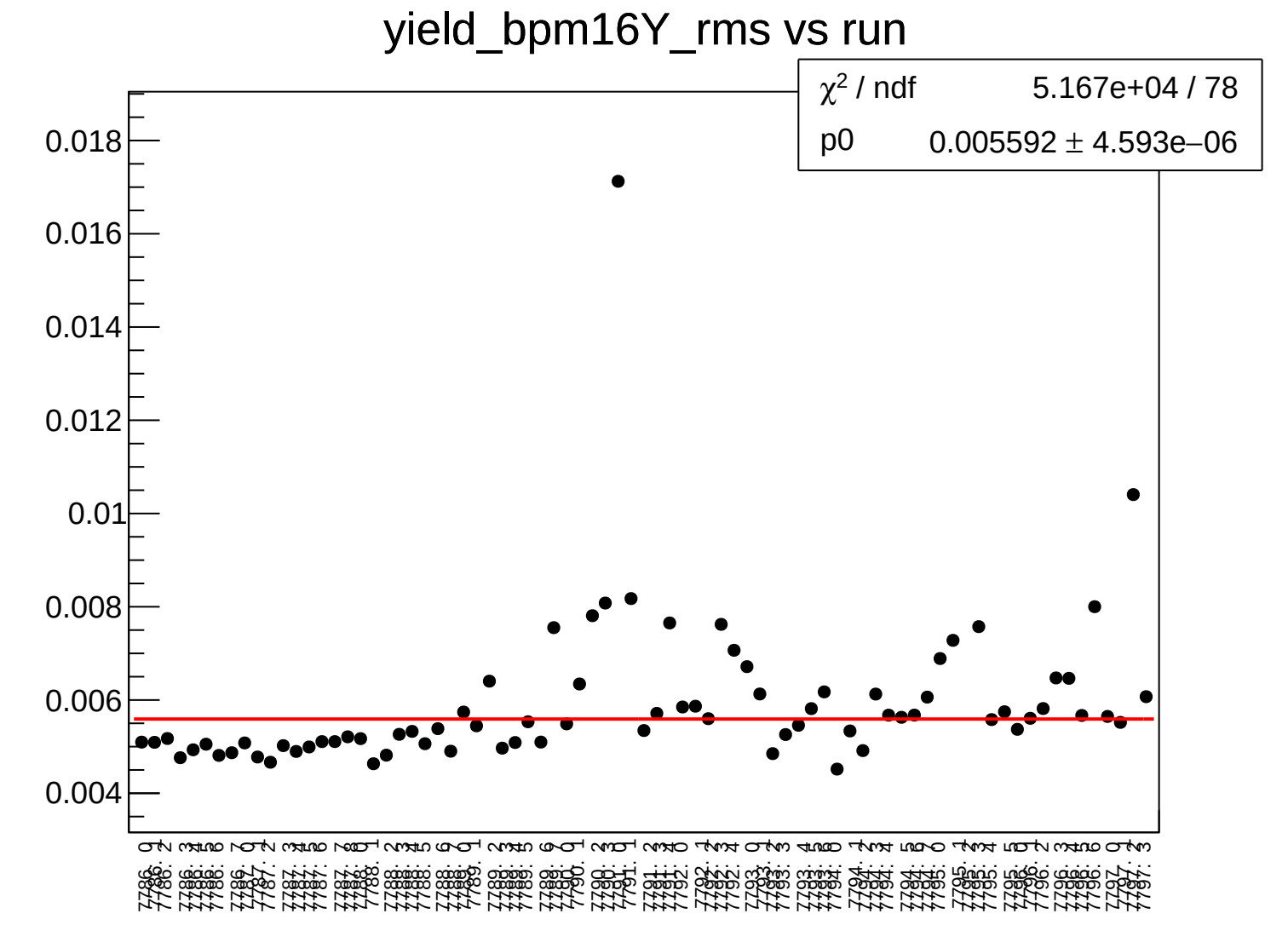

yield_bpm16X_mean vs run
χ² / ndf 1.038e+07 / 78
p0 1.658 ± 7.134e−05
pull
Entries 79
Mean 588.6
Std Dev 0

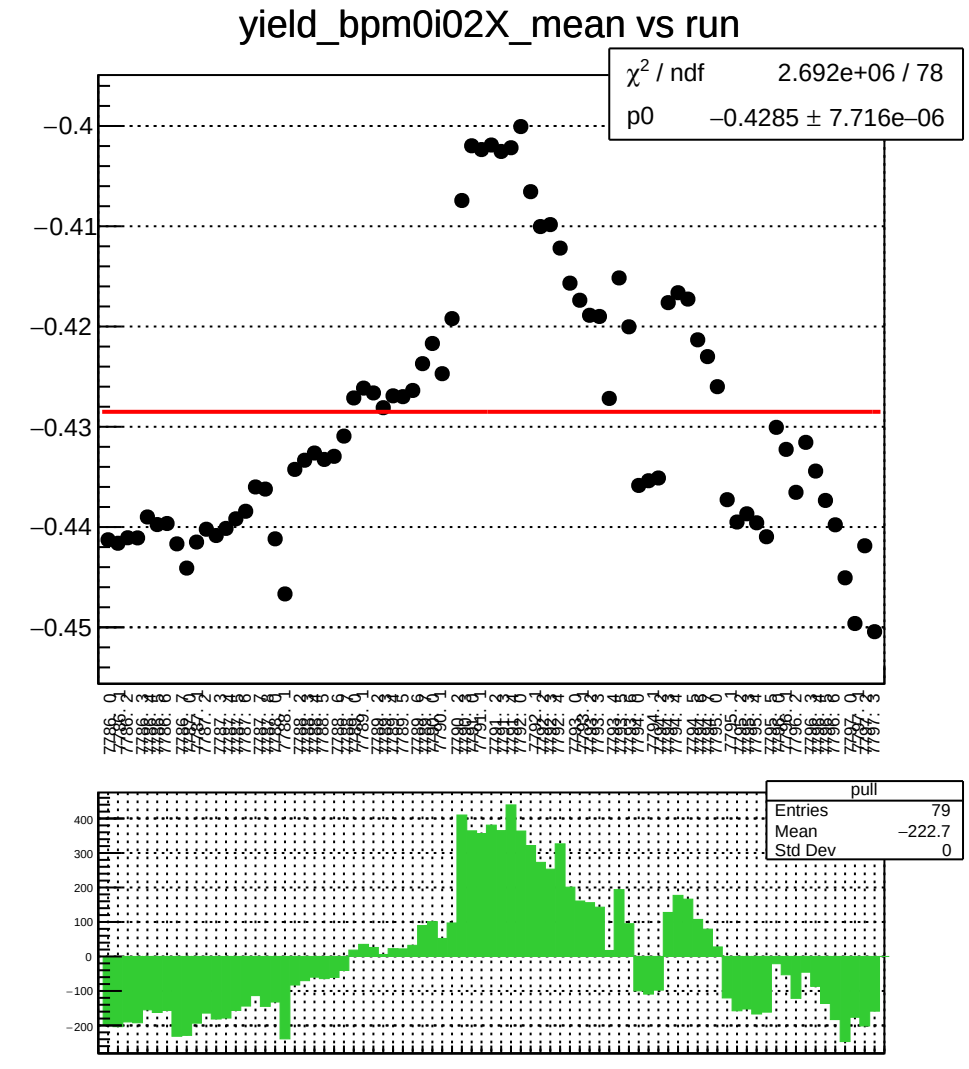

pull1D
Entries 79
Mean 0
Std Dev 0

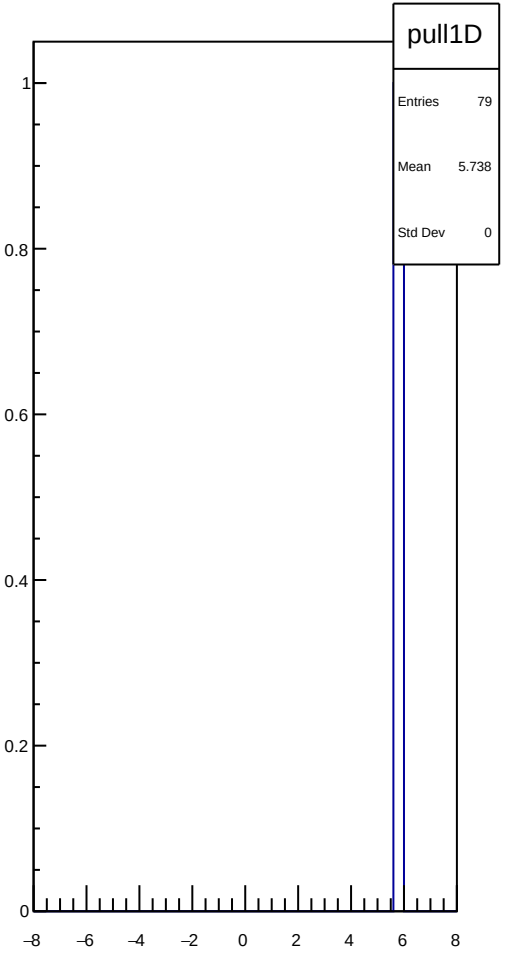

yield_bpm16X_rms vs run
χ² / ndf 4.382e+04 / 78
p0 0.06158 ± 5.045e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

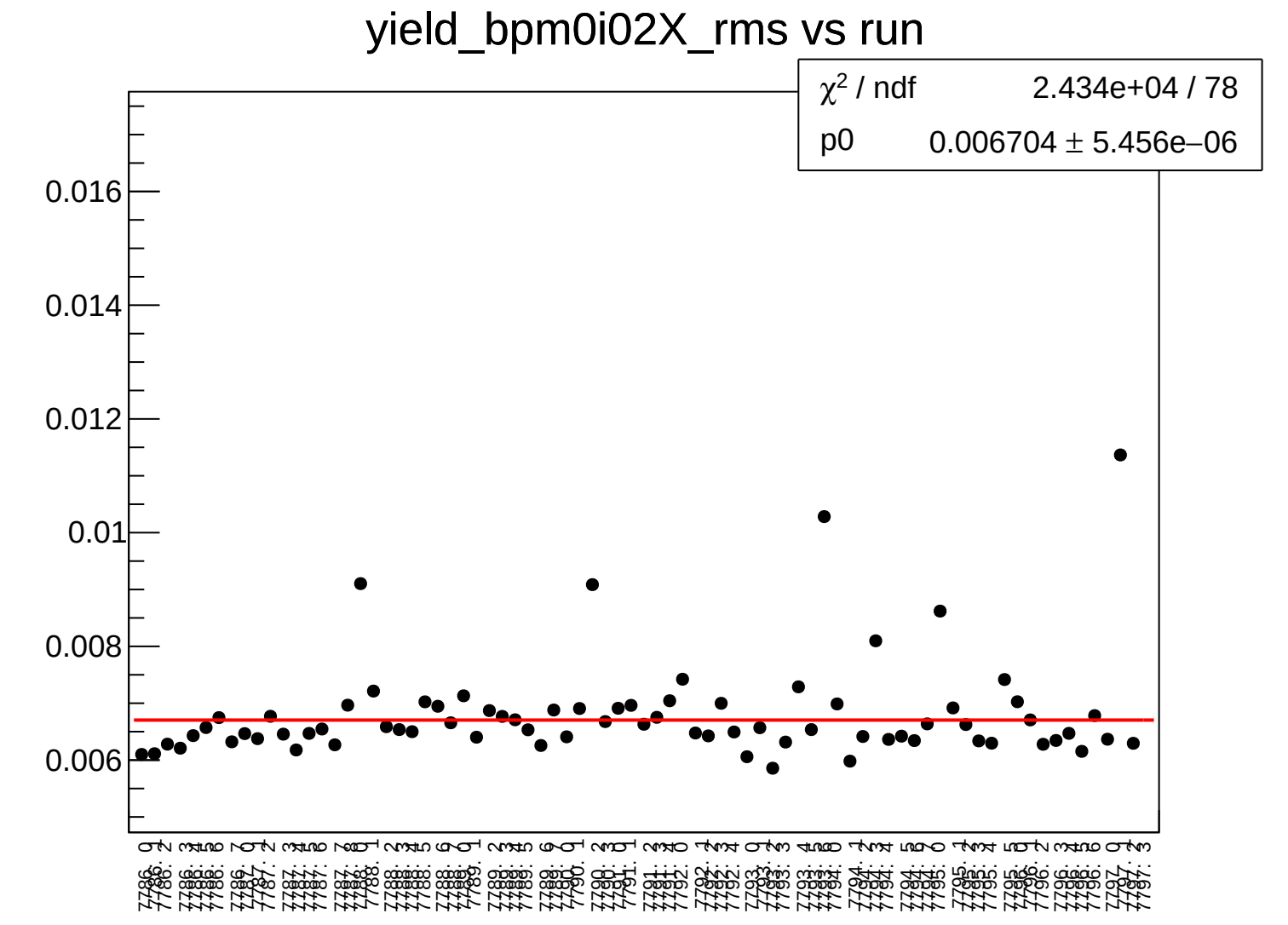

yield_bpm16Y_mean vs run
χ² / ndf 3.443e+06 / 78
p0 0.0699 ± 6.495e−06
0.1
0.09
0.08
0.07
0.06
0.05
pull
Entries 79
Mean 291
Std Dev 0
600
400
200
0
−200

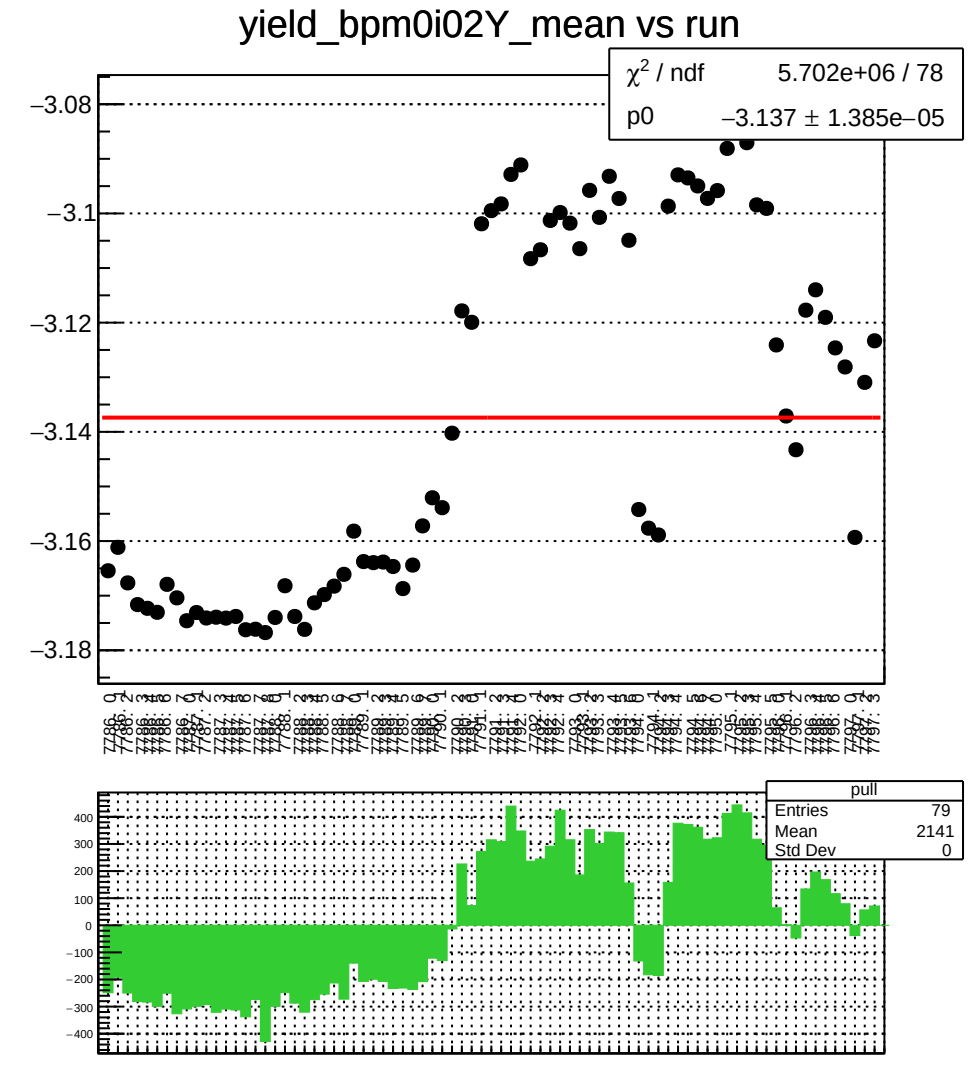

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

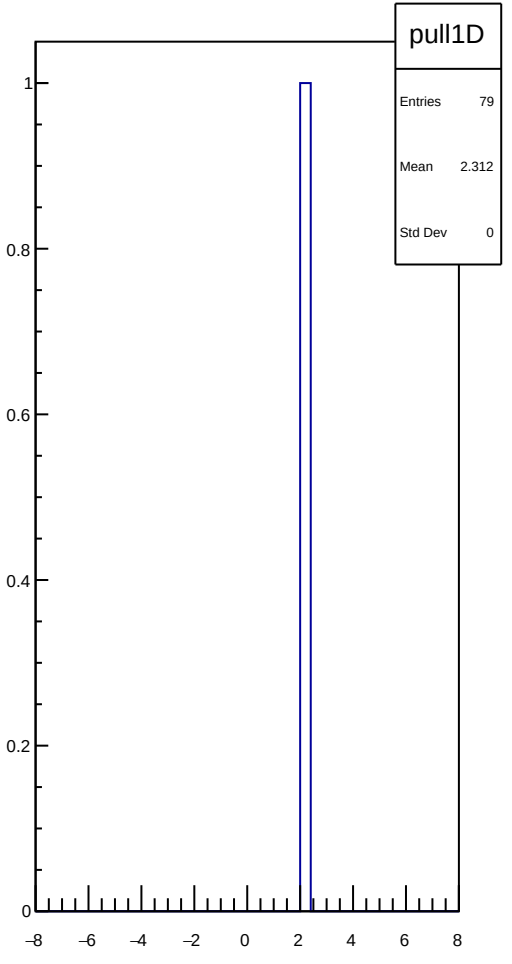

yield_bpm16Y_rms vs run
χ^2 / ndf 5.167e+04 / 78
p0 0.005592 ± 4.593e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

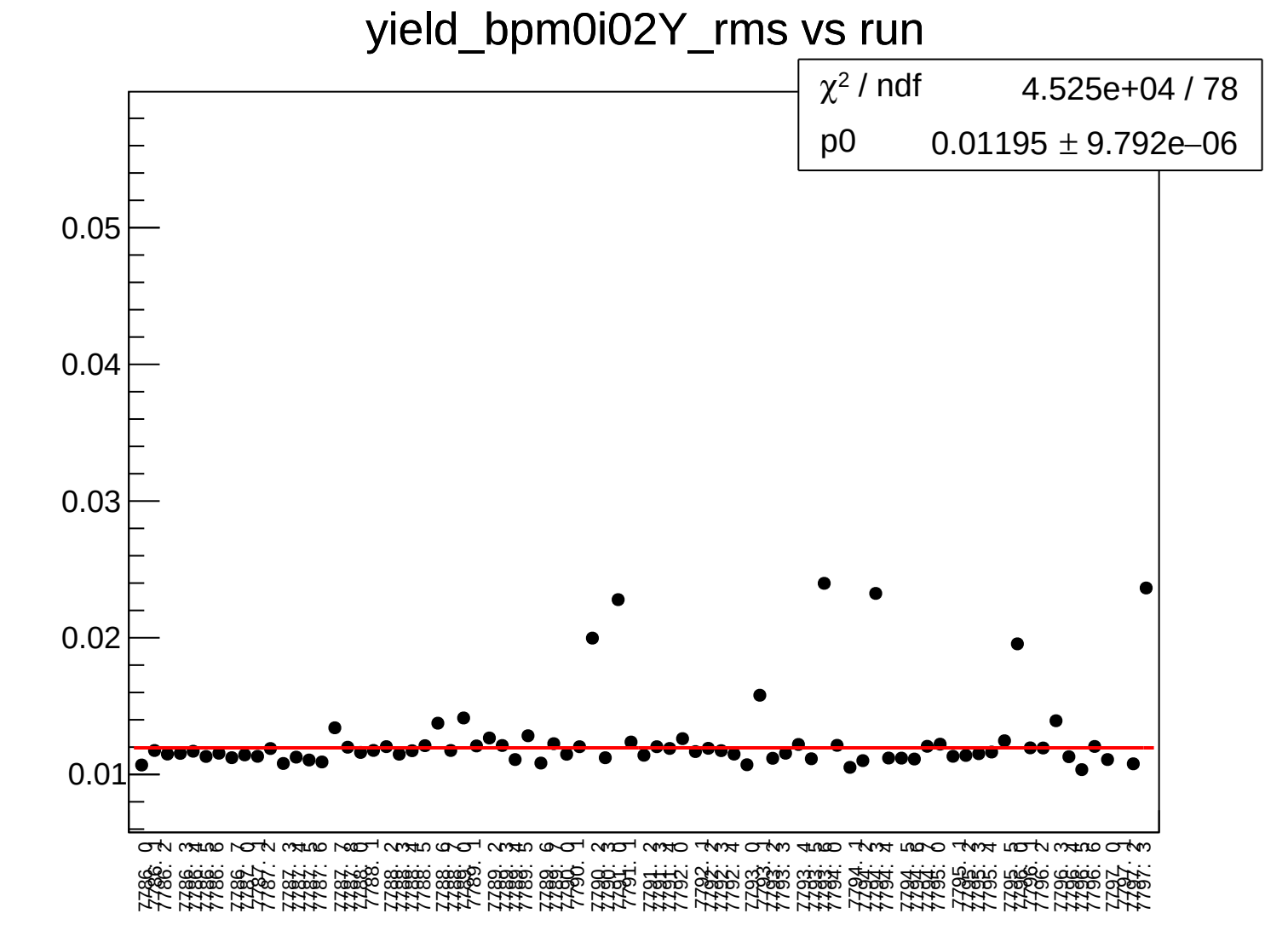

yield_bpm0i02X_mean vs run
χ² / ndf 2.692e+06 / 78
p0 −0.4285 ± 7.716e−06
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
pull
Entries 79
Mean −222.7
Std Dev 0
400
300
200
100
0
−100
−200

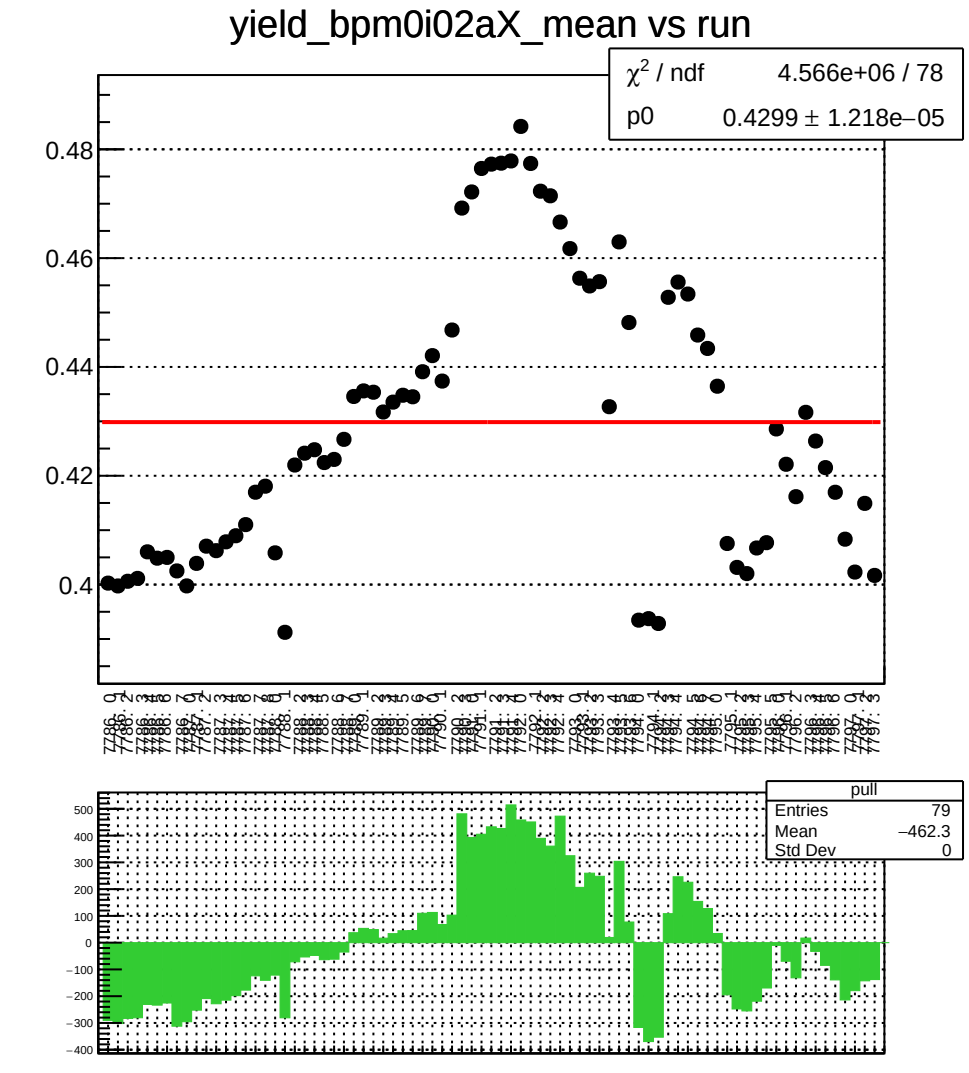

pull1D
Entries 79
Mean 5.738
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

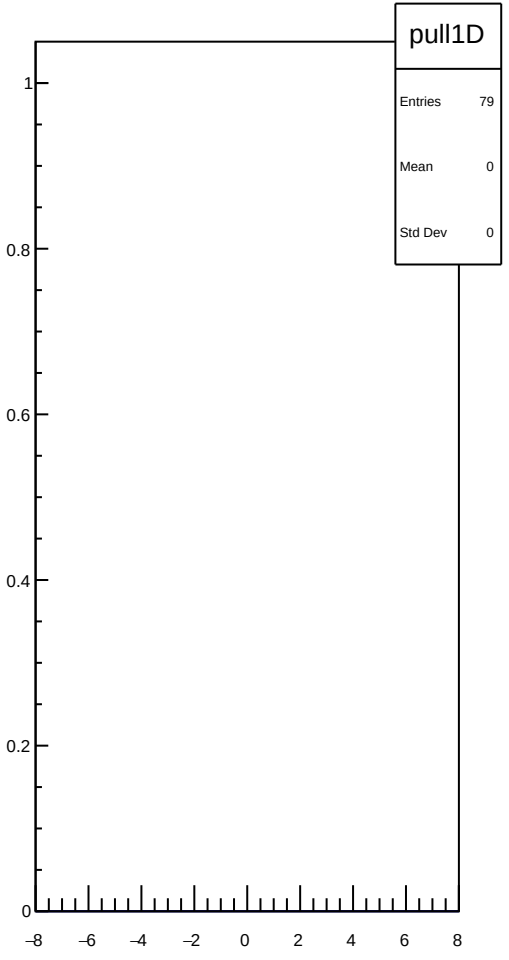

yield_bpm0i02X_rms vs run
χ² / ndf 2.434e+04 / 78
p0 0.006704 ± 5.456e−06
0.016
0.014
0.012
0.01
0.008
0.006

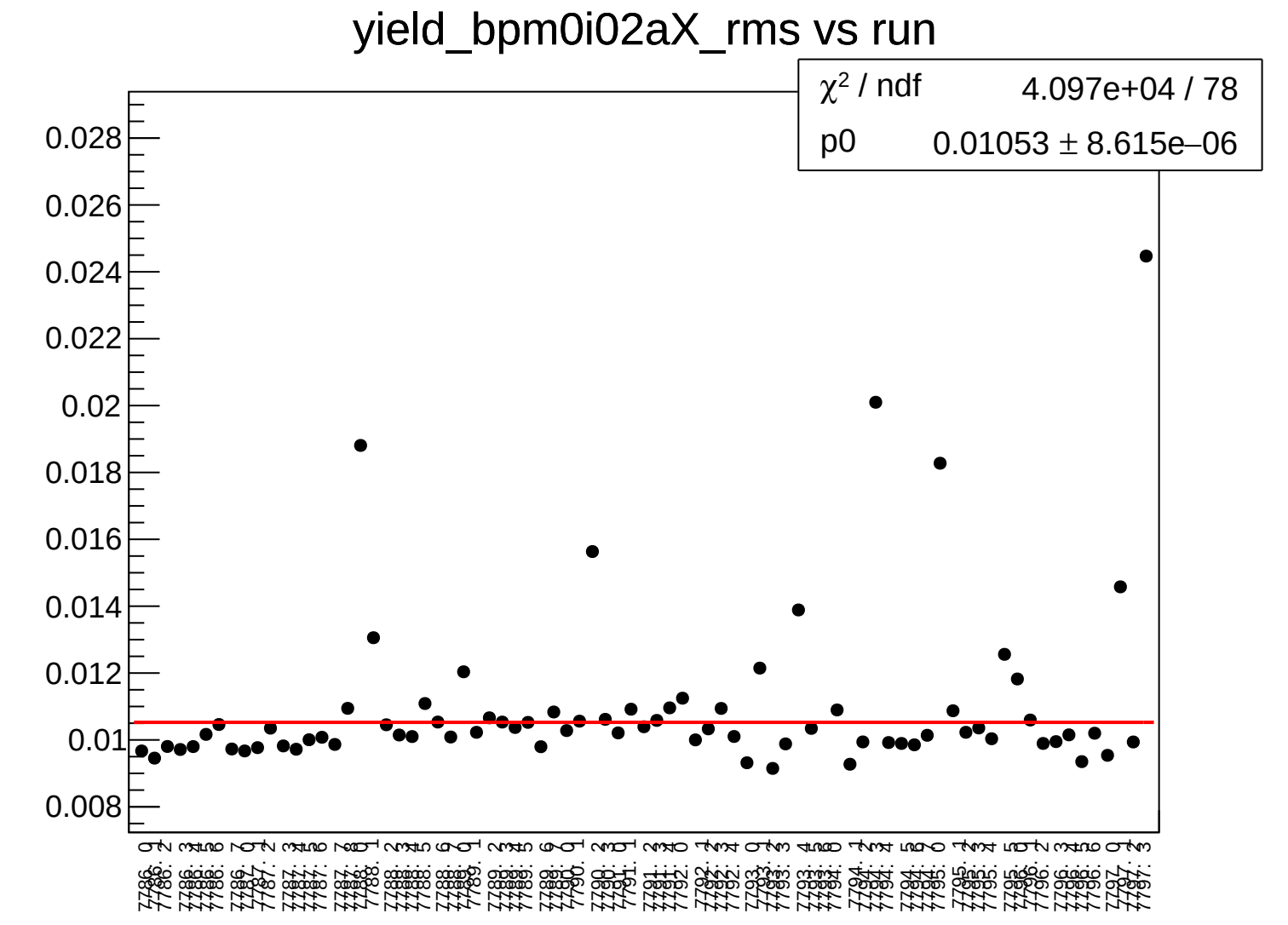

yield_bpm0i02Y_mean vs run
χ² / ndf 5.702e+06 / 78
p0 −3.137 ± 1.385e−05
−3.08
−3.1
−3.12
−3.14
−3.16
−3.18
pull
Entries 79
Mean 2141
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

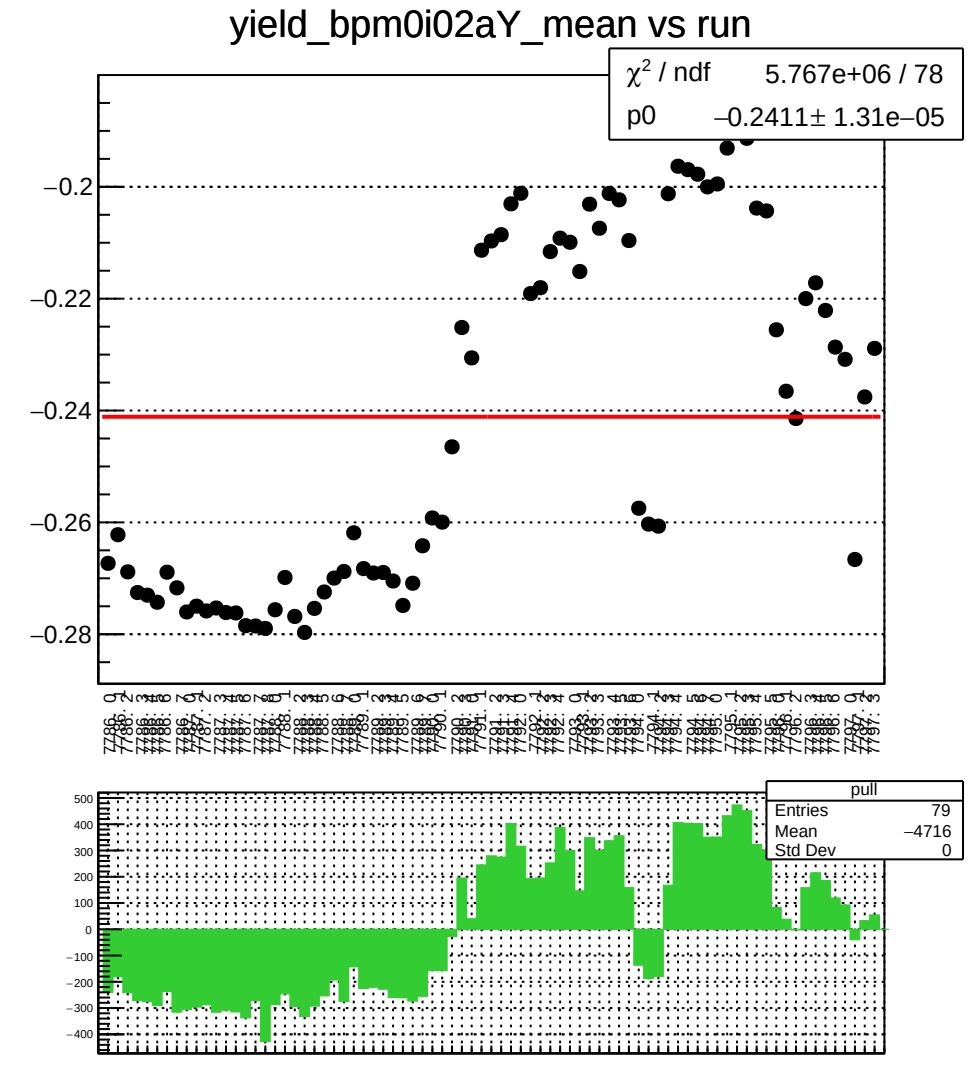

pull1D
Entries 79
Mean 2.312
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

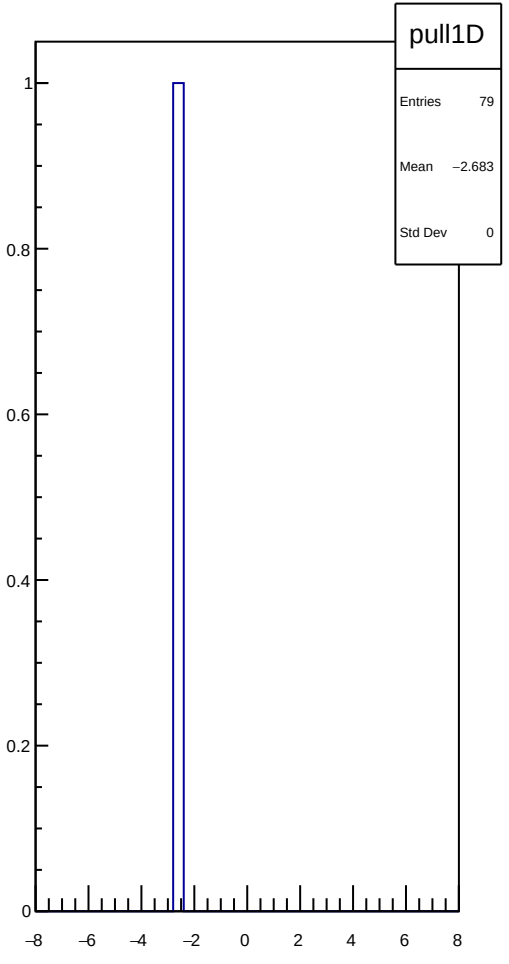

yield_bpm0i02Y_rms vs run
χ² / ndf 4.525e+04 / 78
p0 0.01195 ± 9.792e–06
0.05
0.04
0.03
0.02
0.01

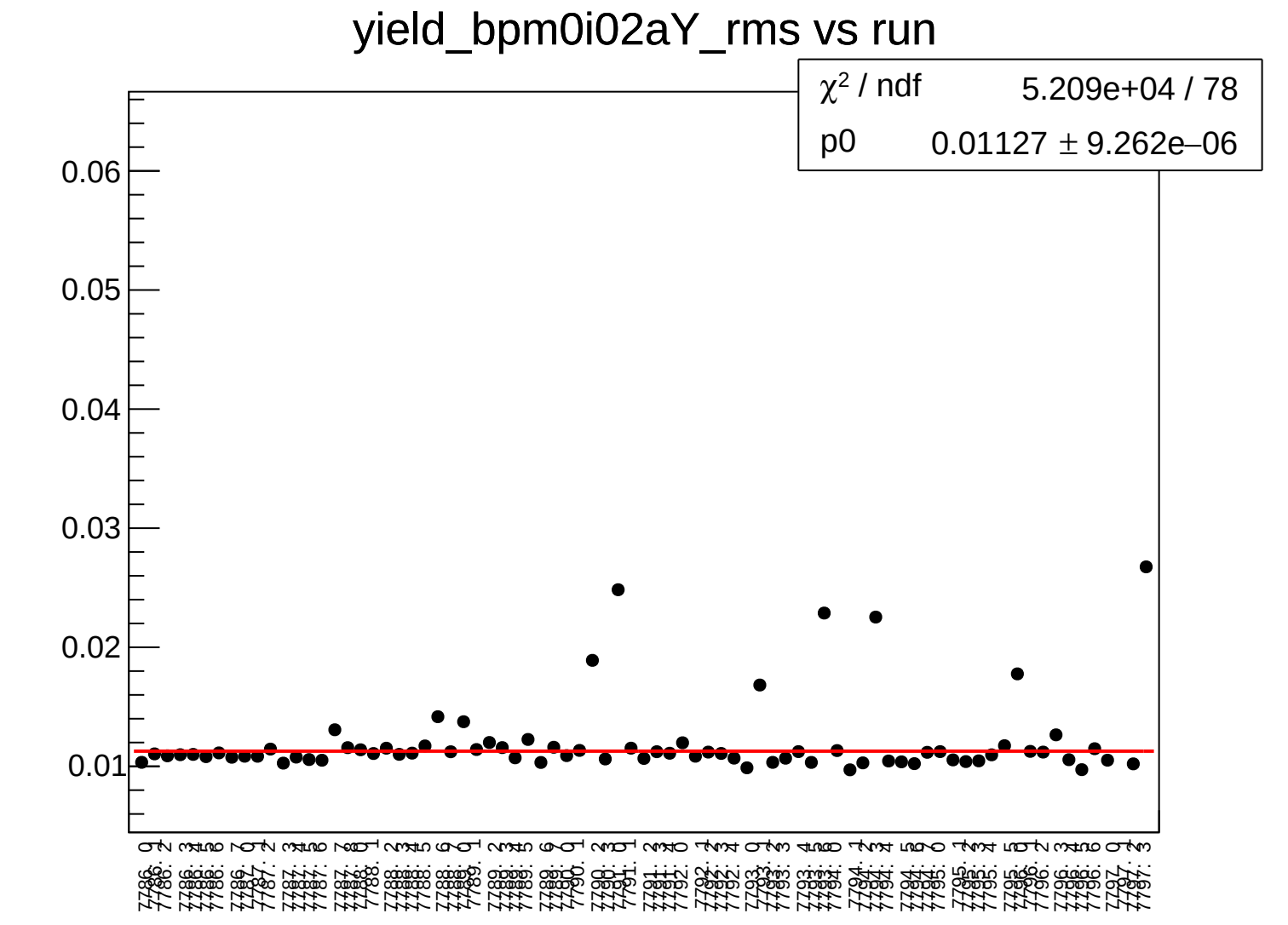

yield_bpm0i02aX_mean vs run
χ² / ndf 4.566e+06 / 78
p0 0.4299 ± 1.218e−05
0.48
0.46
0.44
0.42
0.4
pull
Entries 79
Mean −462.3
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

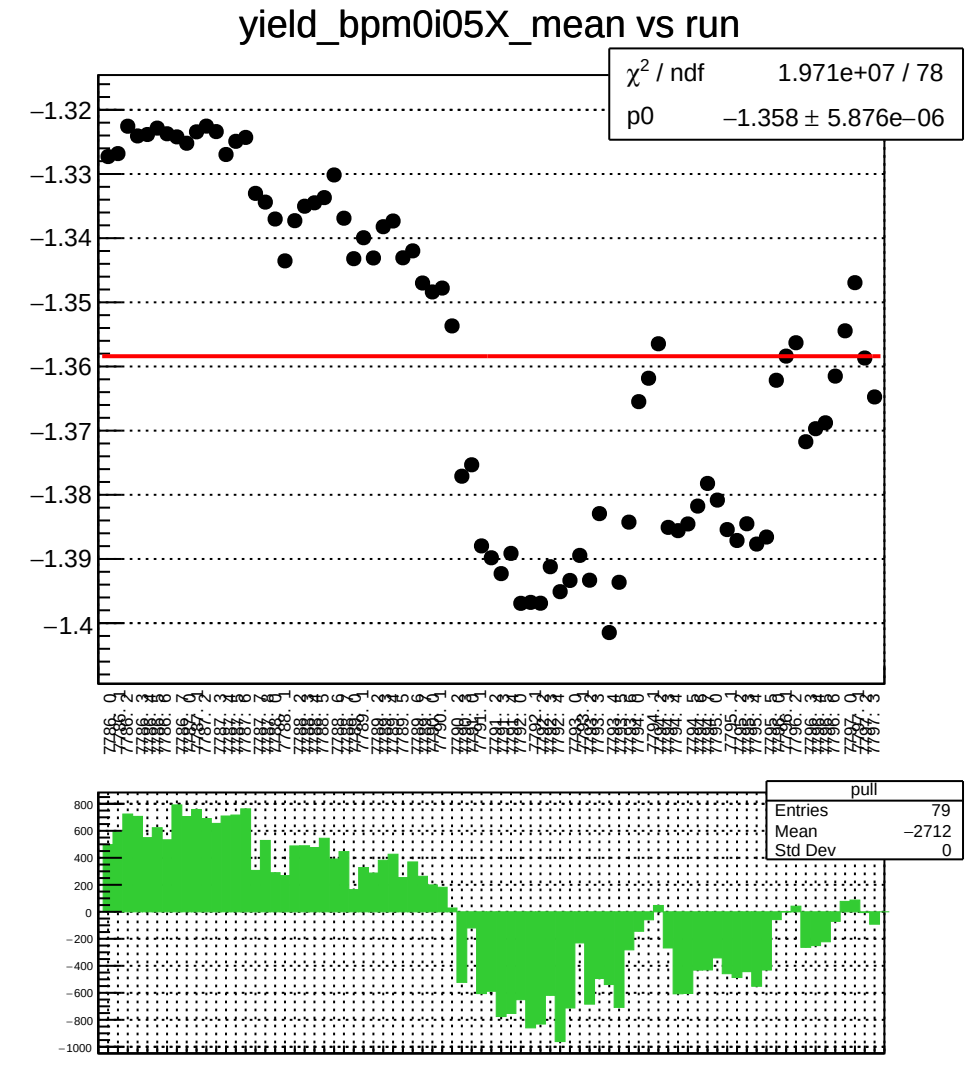

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

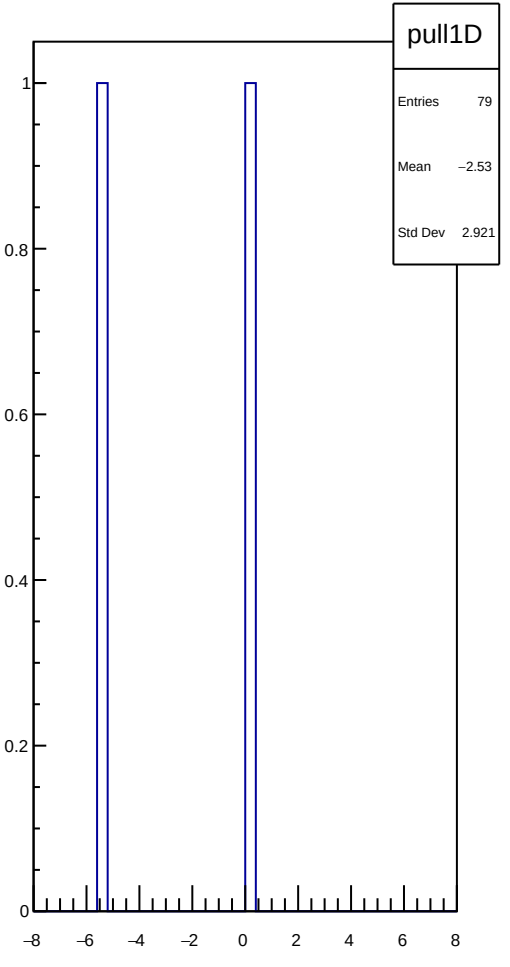

yield_bpm0i02aX_rms vs run
χ² / ndf 4.097e+04 / 78
p0 0.01053 ± 8.615e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

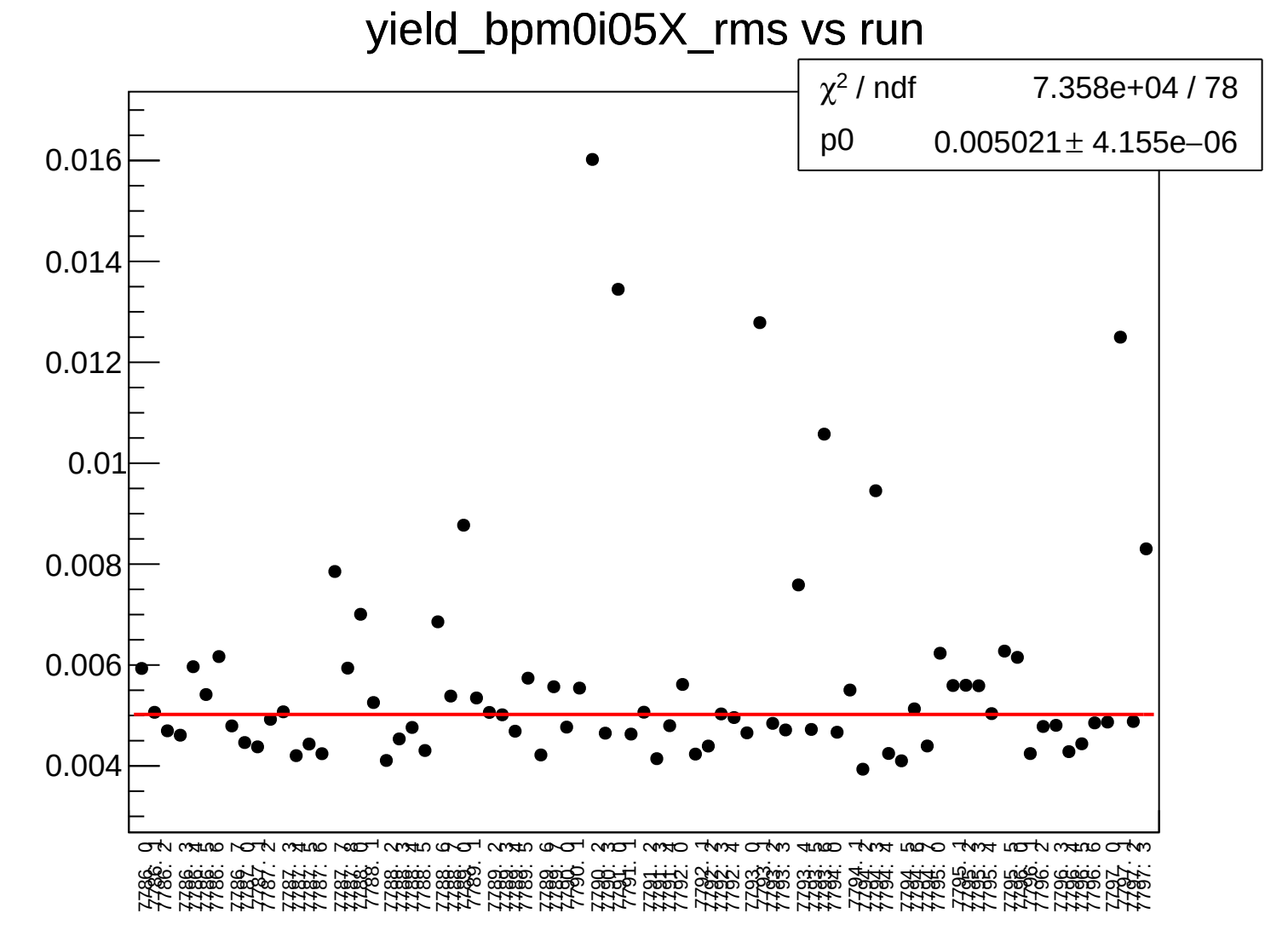

yield_bpm0i02aY_mean vs run
χ² / ndf 5.767e+06 / 78
p0 −0.2411± 1.31e−05
−0.2
−0.22
−0.24
−0.26
−0.28
pull
Entries 79
Mean −4716
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

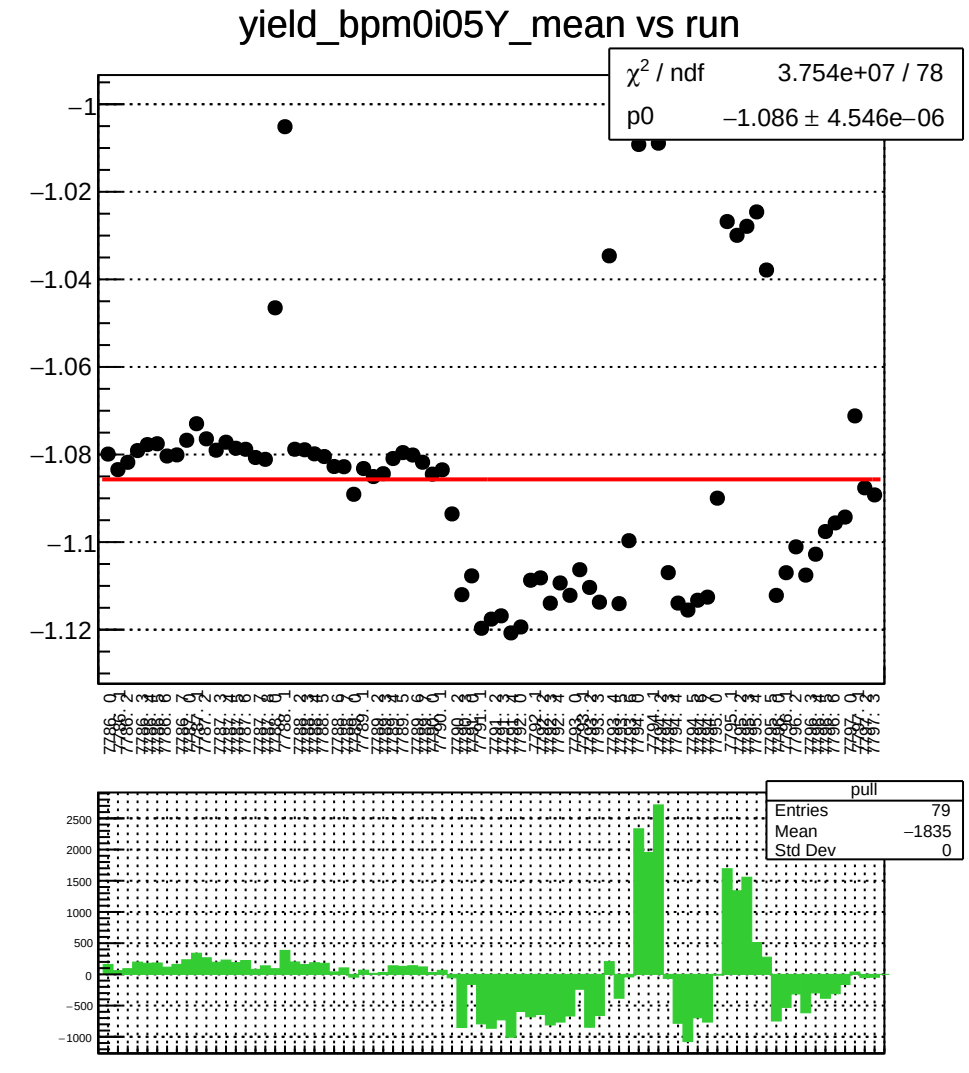

pull1D
Entries 79
Mean −2.683
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

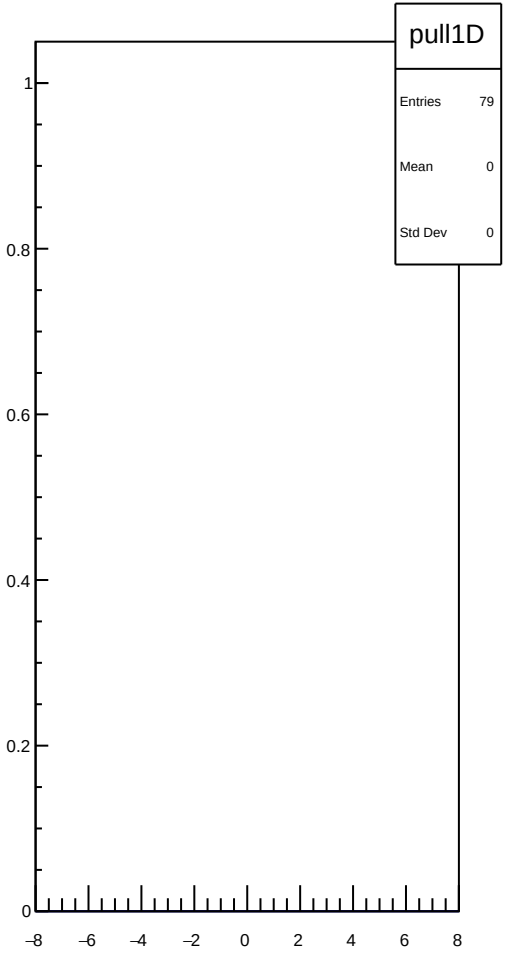

yield_bpm0i02aY_rms vs run
χ² / ndf 5.209e+04 / 78
p0 0.01127 ± 9.262e–06
0.06
0.05
0.04
0.03
0.02
0.01

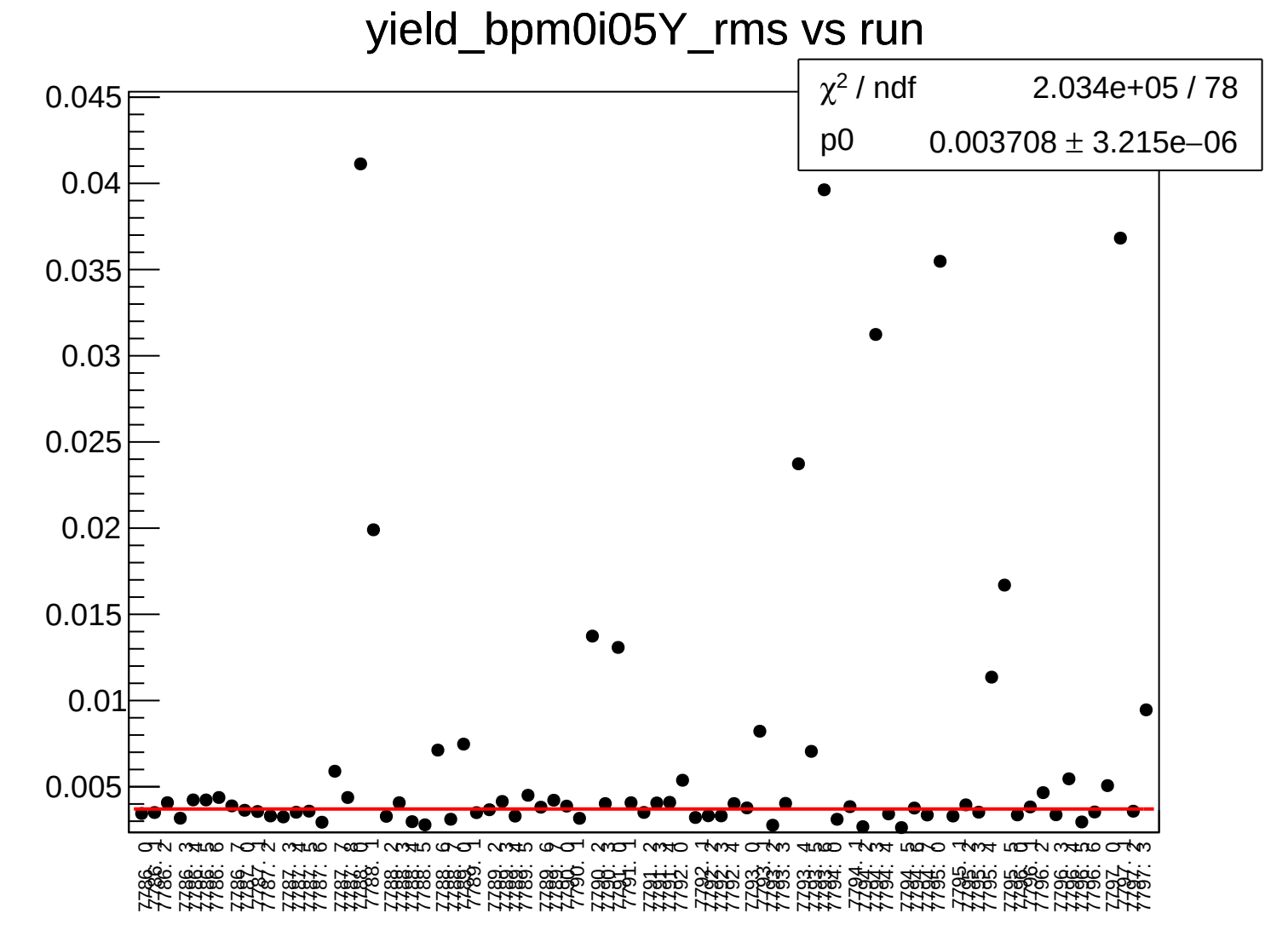

yield_bpm0i05X_mean vs run
χ² / ndf 1.971e+07 / 78
p0 −1.358 ± 5.876e−06
−1.32
−1.33
−1.34
−1.35
−1.36
−1.37
−1.38
−1.39
−1.4
pull
Entries 79
Mean −2712
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

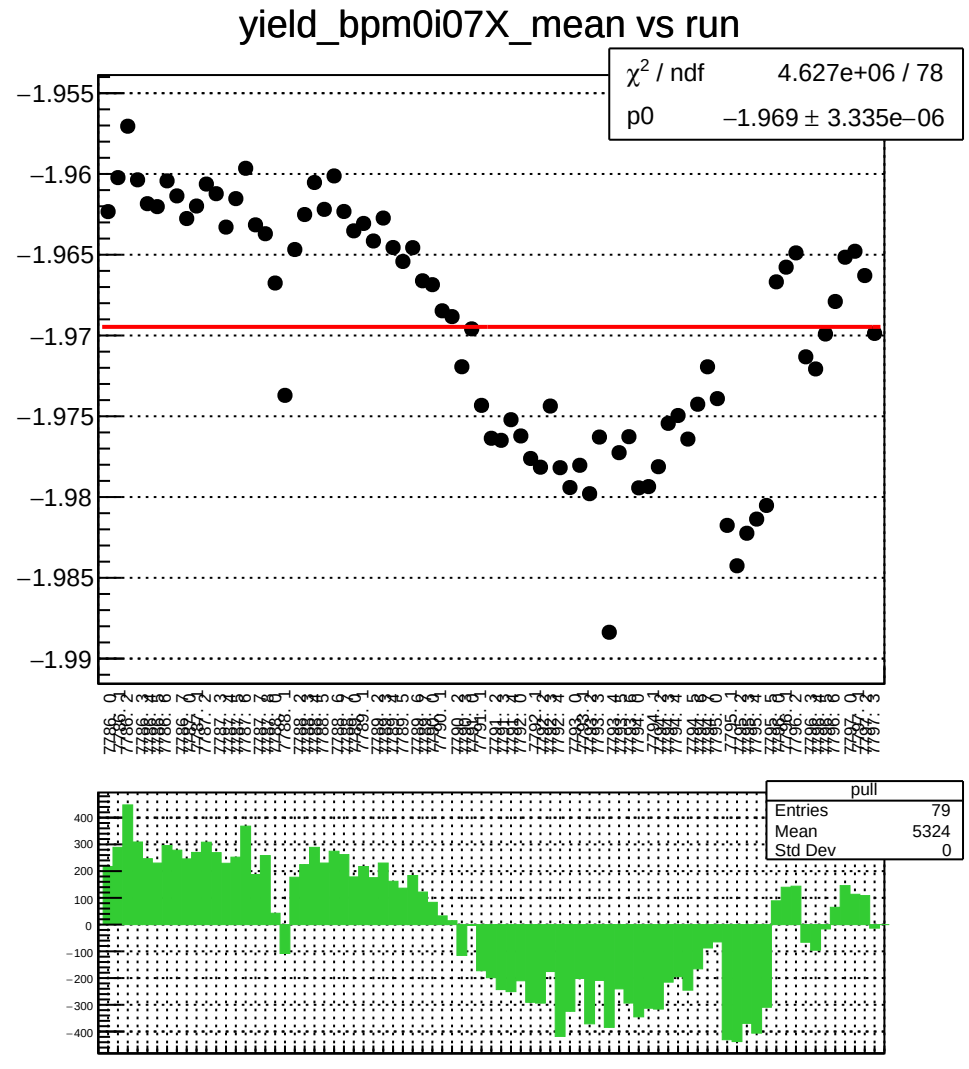

pull1D
Entries 79
Mean −2.53
Std Dev 2.921
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

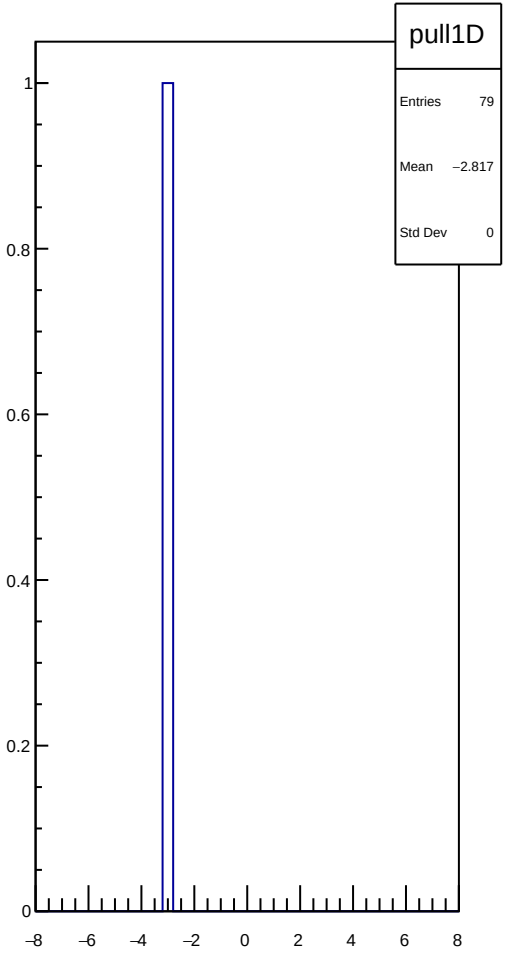

yield_bpm0i05X_rms vs run
χ^2 / ndf 7.358e+04 / 78
p0 0.005021 ± 4.155e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

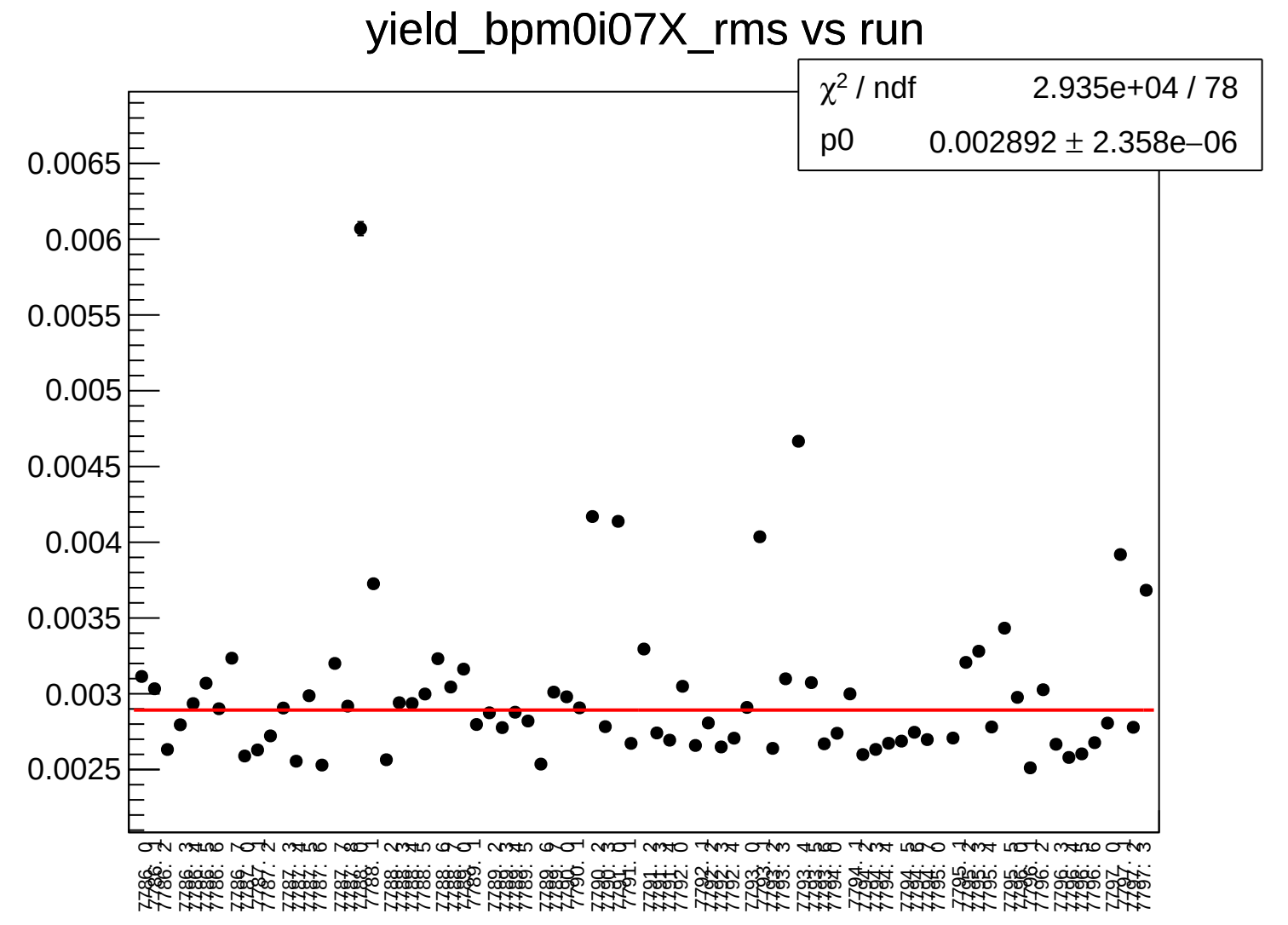

yield_bpm0i05Y_mean vs run
χ² / ndf 3.754e+07 / 78
p0 −1.086 ± 4.546e−06
−1
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
pull
Entries 79
Mean −1835
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

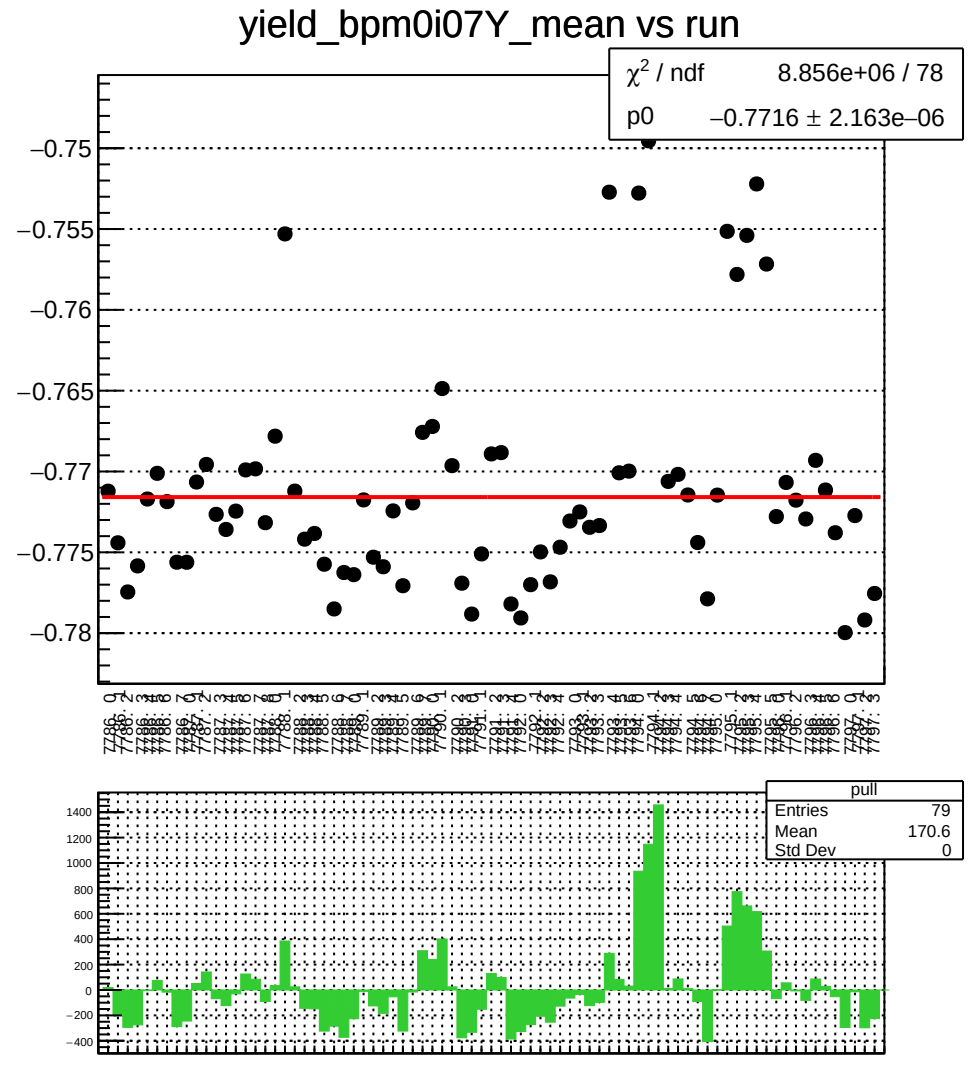

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

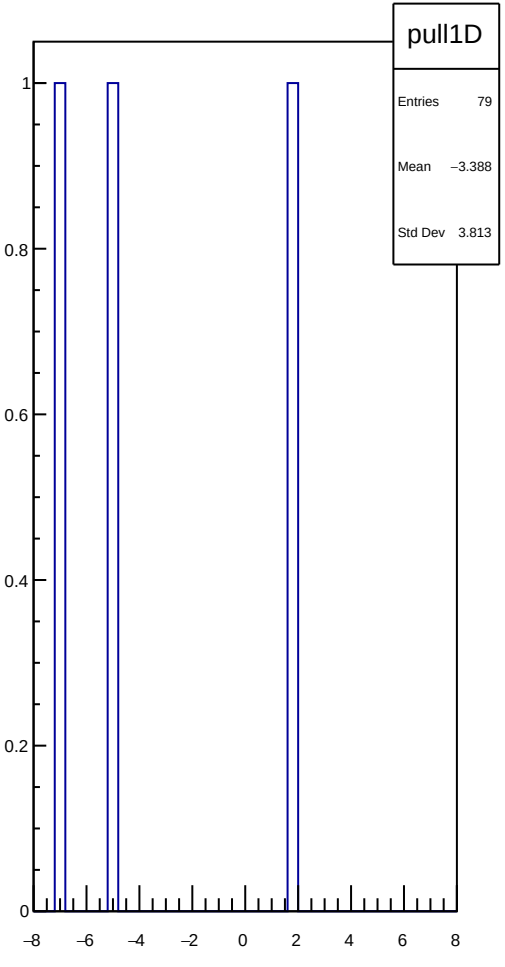

yield_bpm0i05Y_rms vs run
χ² / ndf 2.034e+05 / 78
p0 0.003708 ± 3.215e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

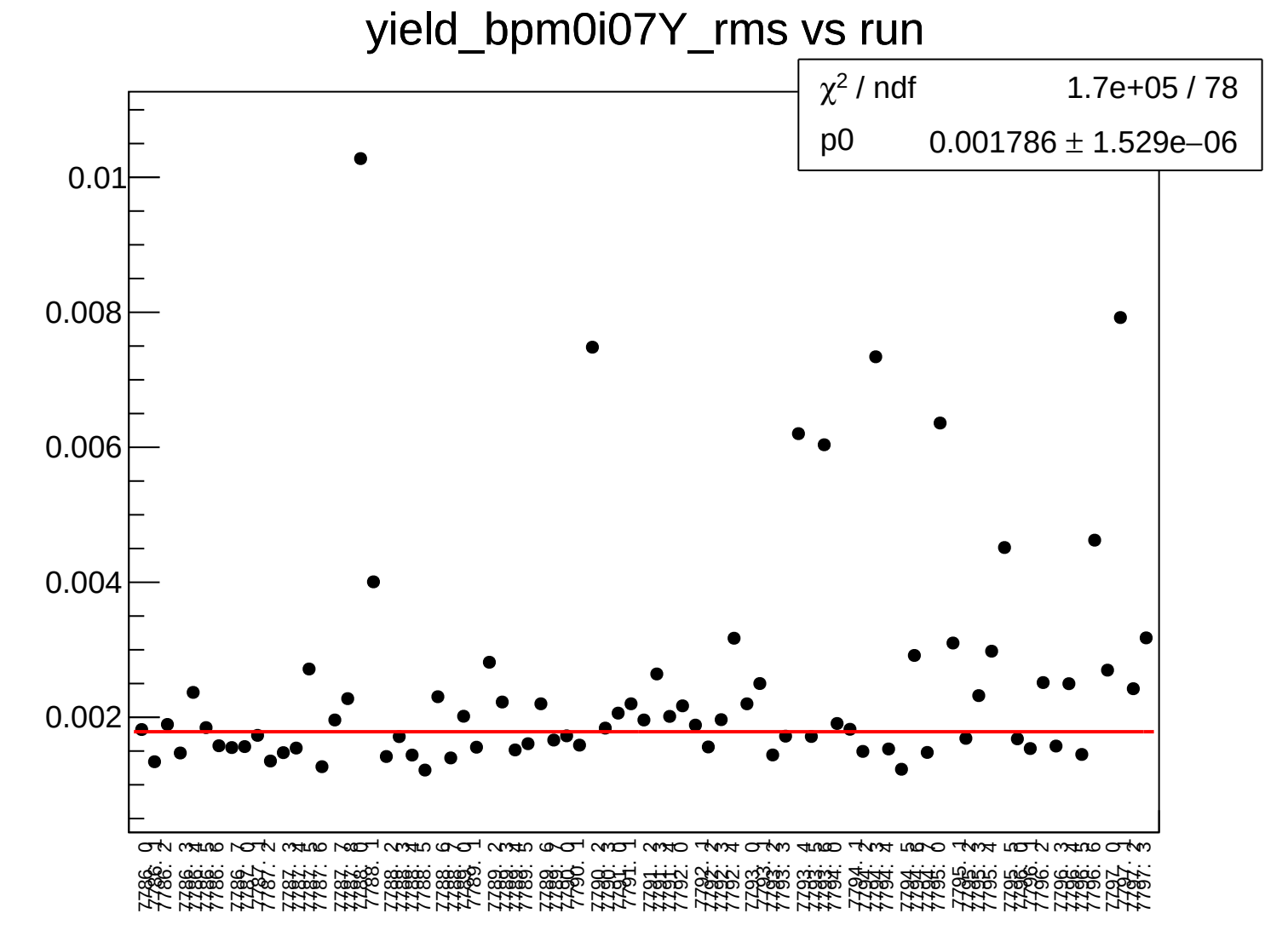

yield_bpm0i07X_mean vs run
χ² / ndf 4.627e+06 / 78
p0 −1.969 ± 3.335e−06
−1.955
−1.96
−1.965
−1.97
−1.975
−1.98
−1.985
−1.99
pull
Entries 79
Mean 5324
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

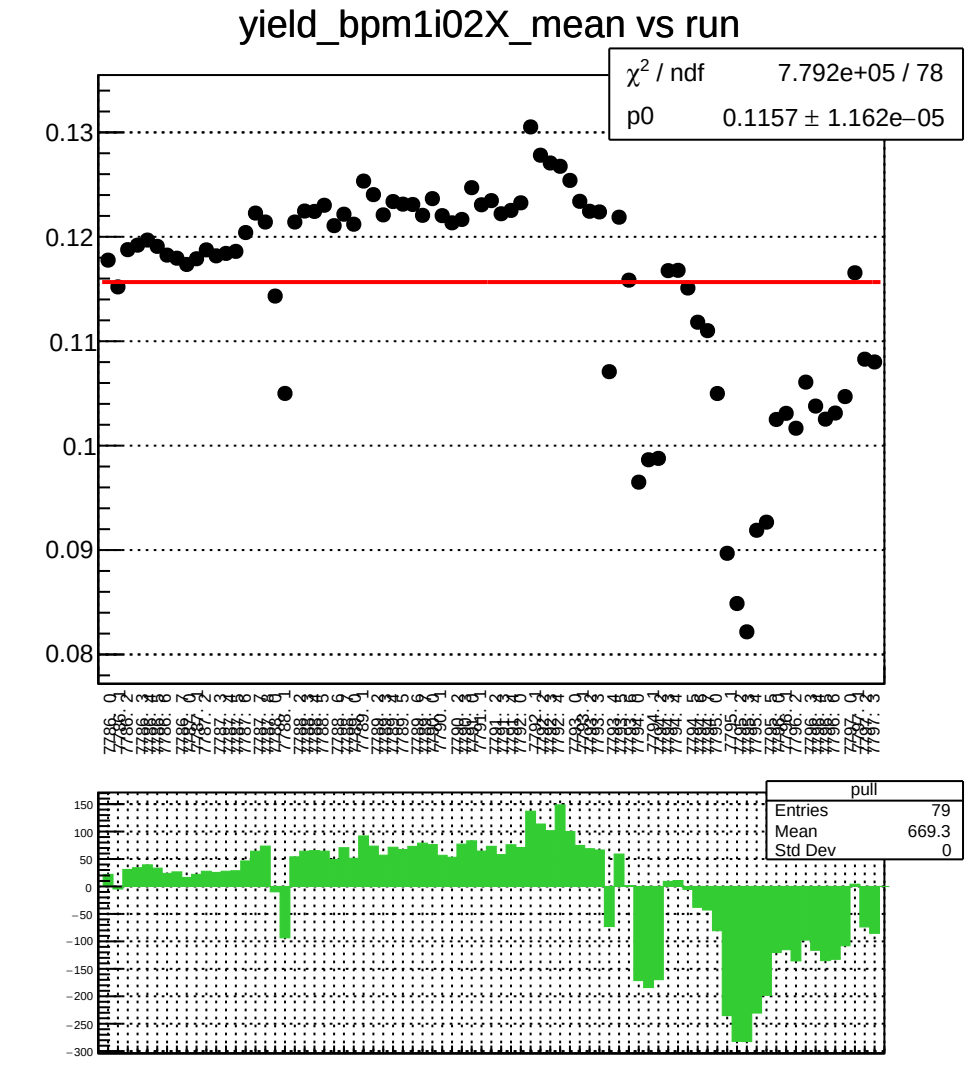

pull1D
Entries 79
Mean −2.817
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

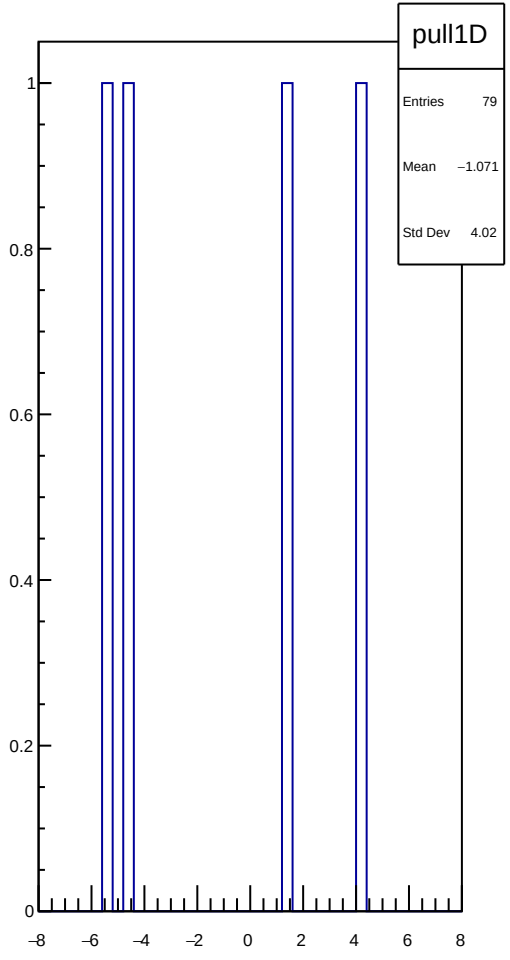

yield_bpm0i07X_rms vs run
χ^2 / ndf 2.935e+04 / 78
p0 0.002892 ± 2.358e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

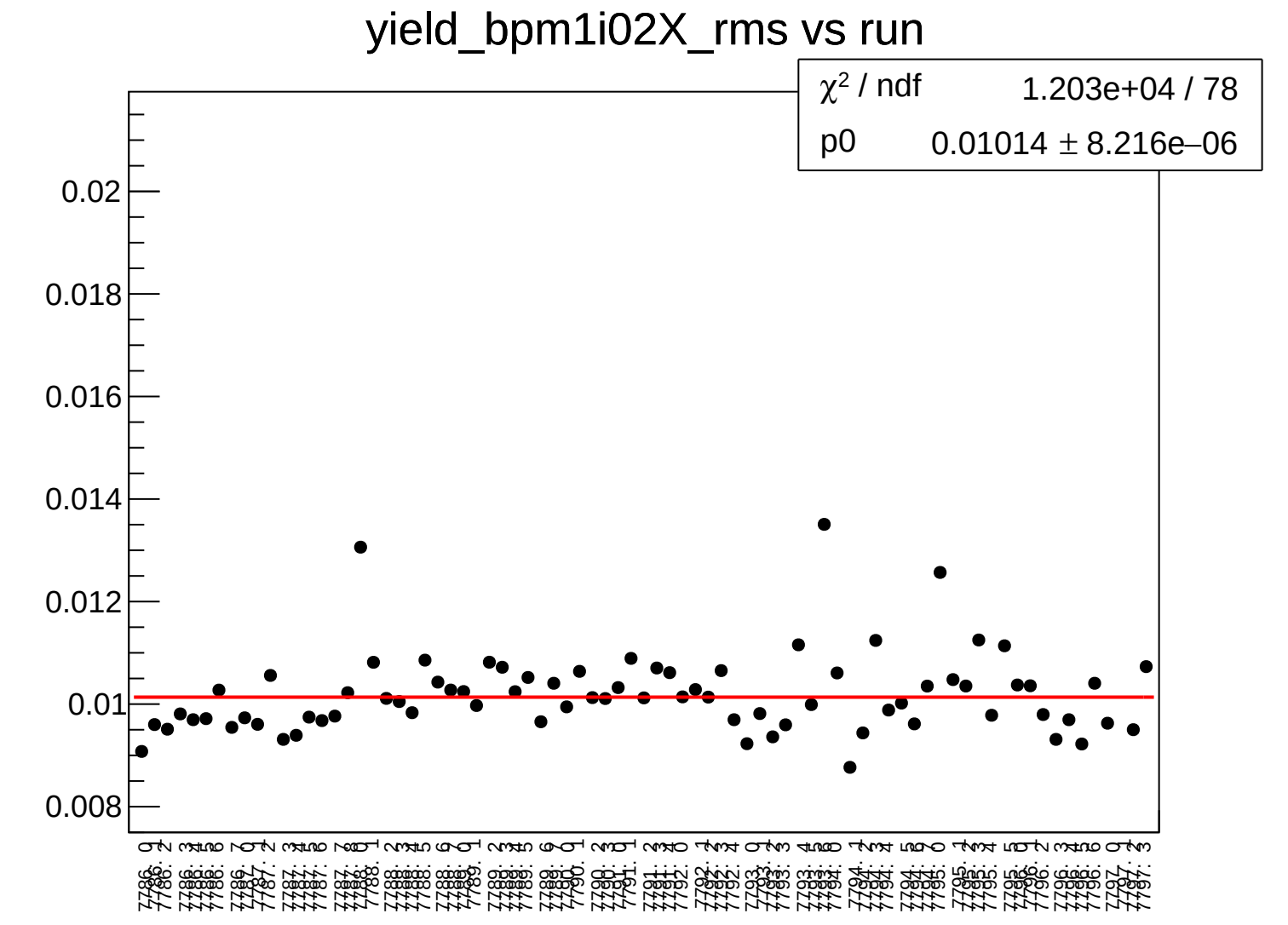

yield_bpm0i07Y_mean vs run
χ² / ndf 8.856e+06 / 78
p0 −0.7716 ± 2.163e−06
−0.75
−0.755
−0.76
−0.765
−0.77
−0.775
−0.78
pull
Entries 79
Mean 170.6
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400

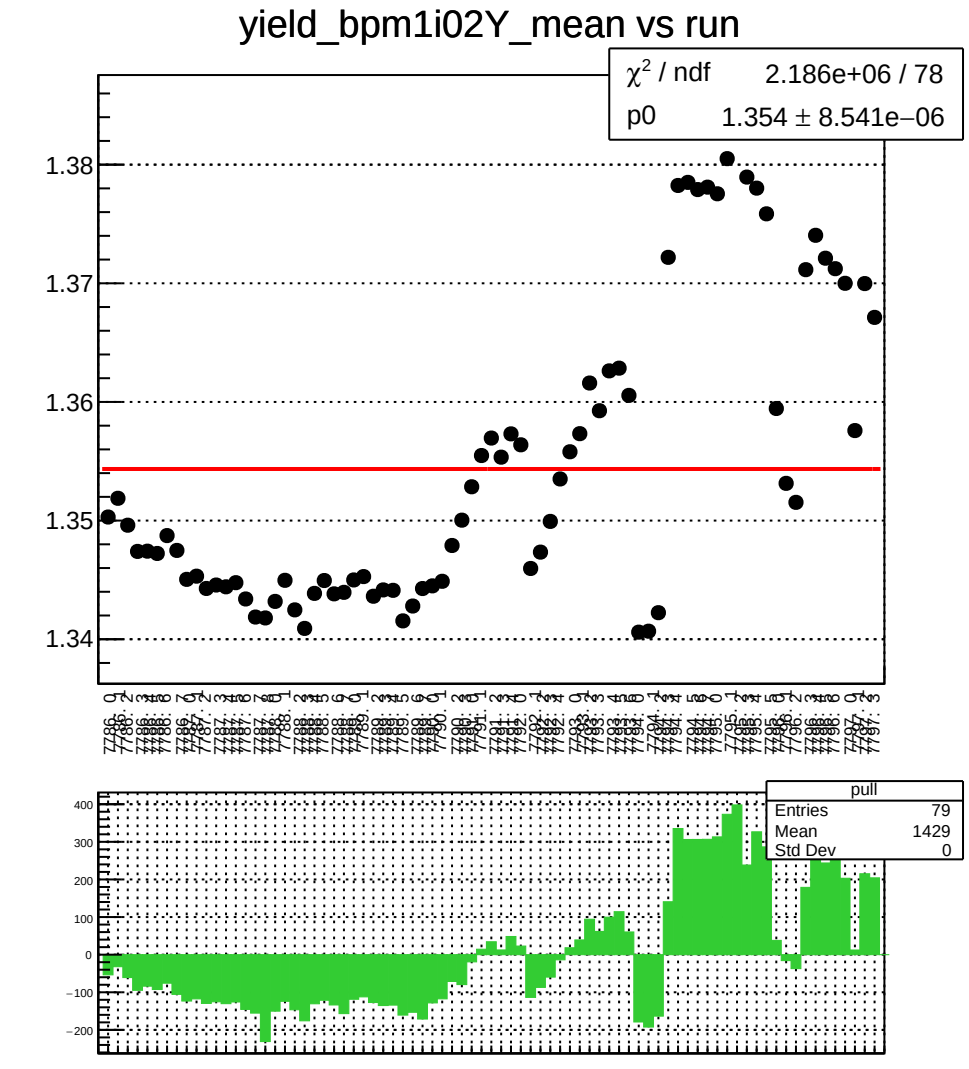

pull1D
Entries 79
Mean −3.388
Std Dev 3.813
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

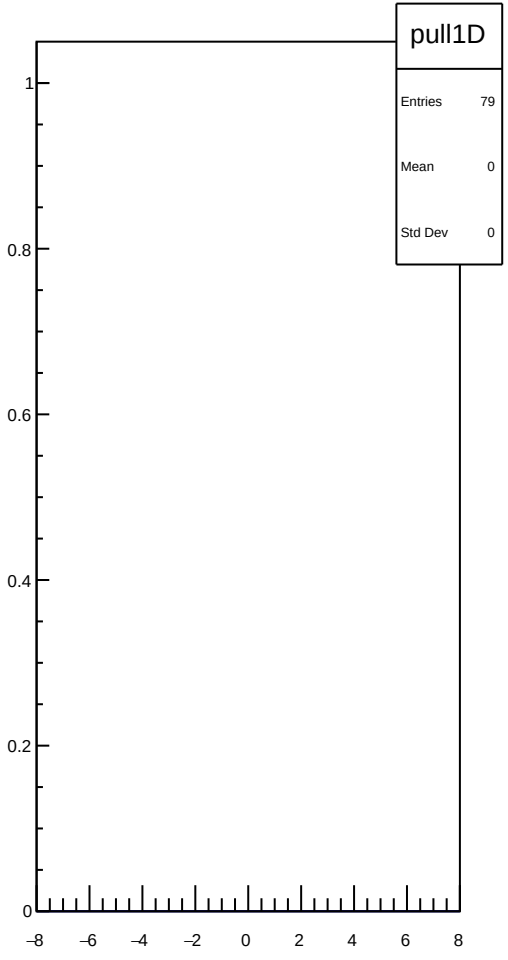

yield_bpm0i07Y_rms vs run
χ² / ndf 1.7e+05 / 78
p0 0.001786 ± 1.529e−06
0.01
0.008
0.006
0.004
0.002

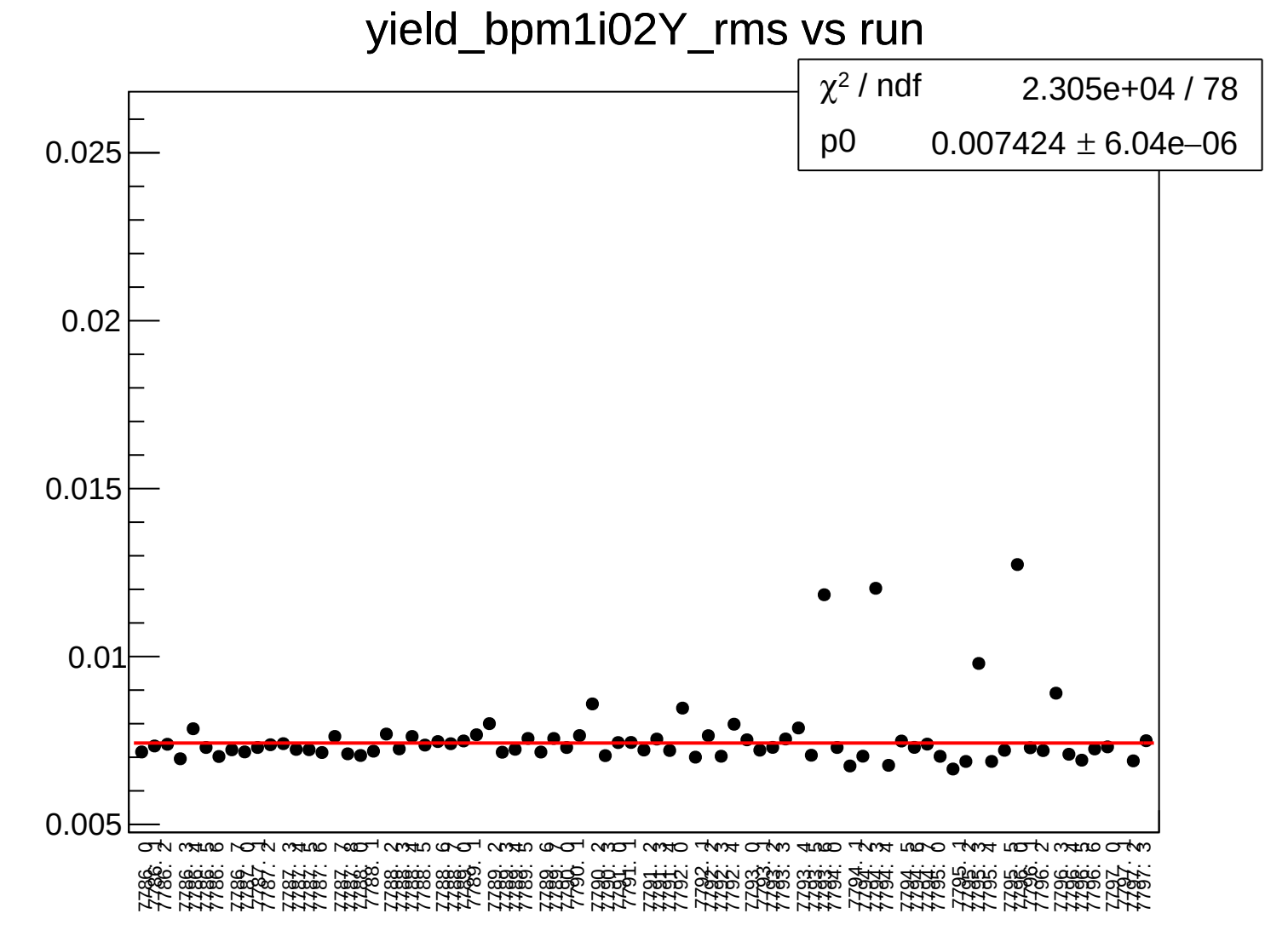

yield_bpm1i02X_mean vs run
χ² / ndf 7.792e+05 / 78
p0 0.1157 ± 1.162e−05
0.13
0.12
0.11
0.1
0.09
0.08
pull
Entries 79
Mean 669.3
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
−300

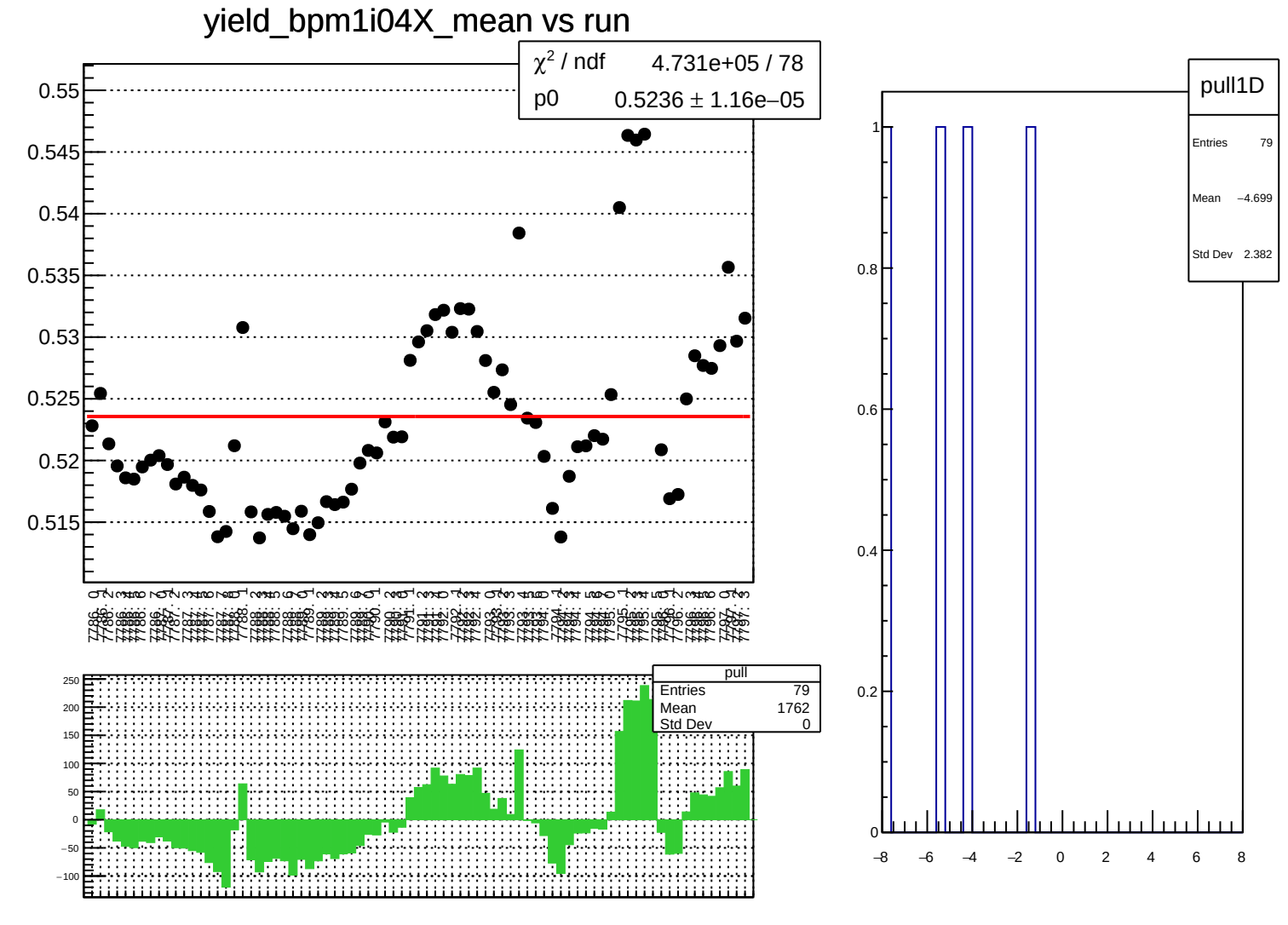

pull1D
Entries 79
Mean −1.071
Std Dev 4.02
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

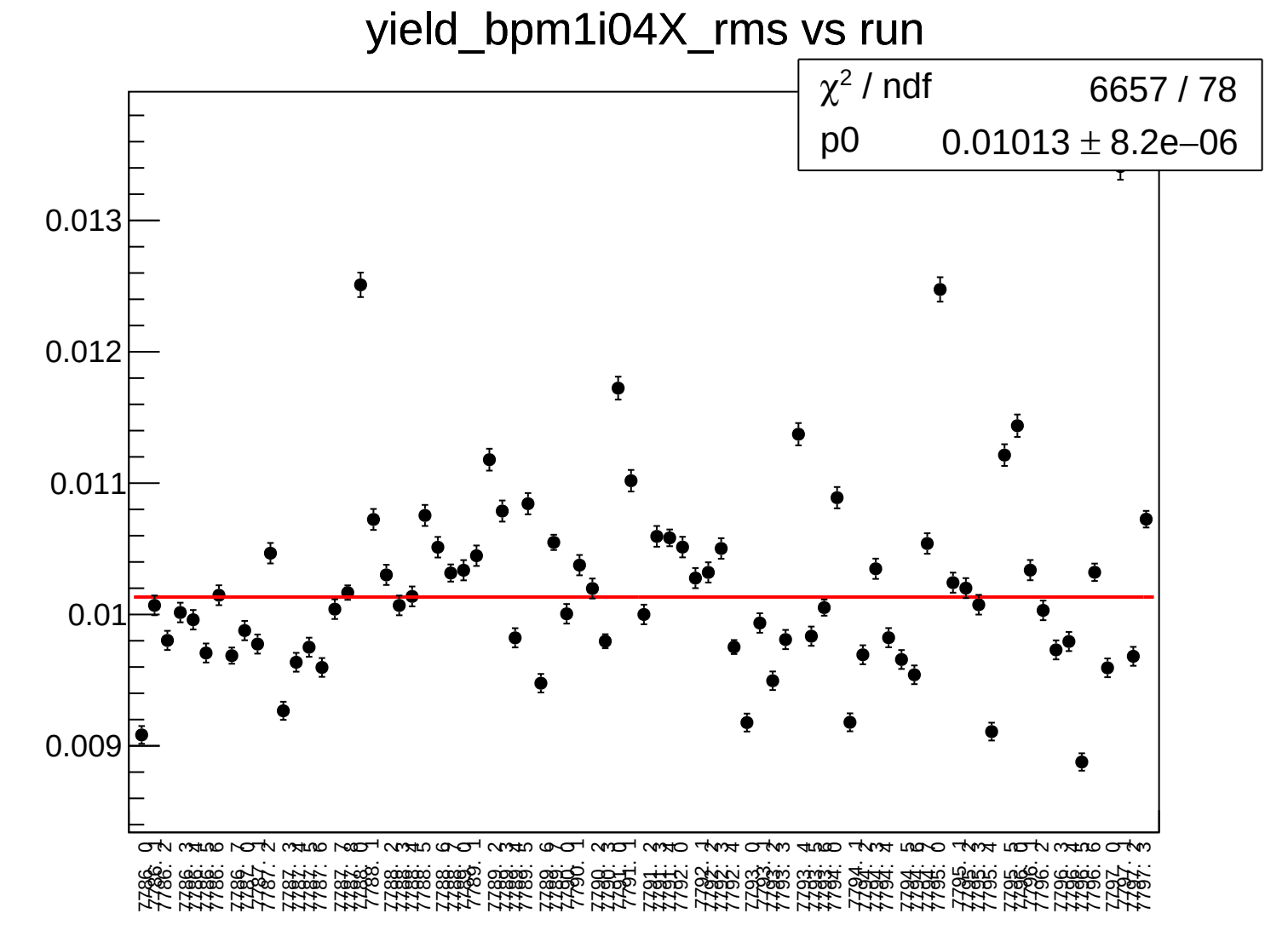

yield_bpm1i02X_rms vs run
χ^2 / ndf 1.203e+04 / 78
p0 0.01014 ± 8.216e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

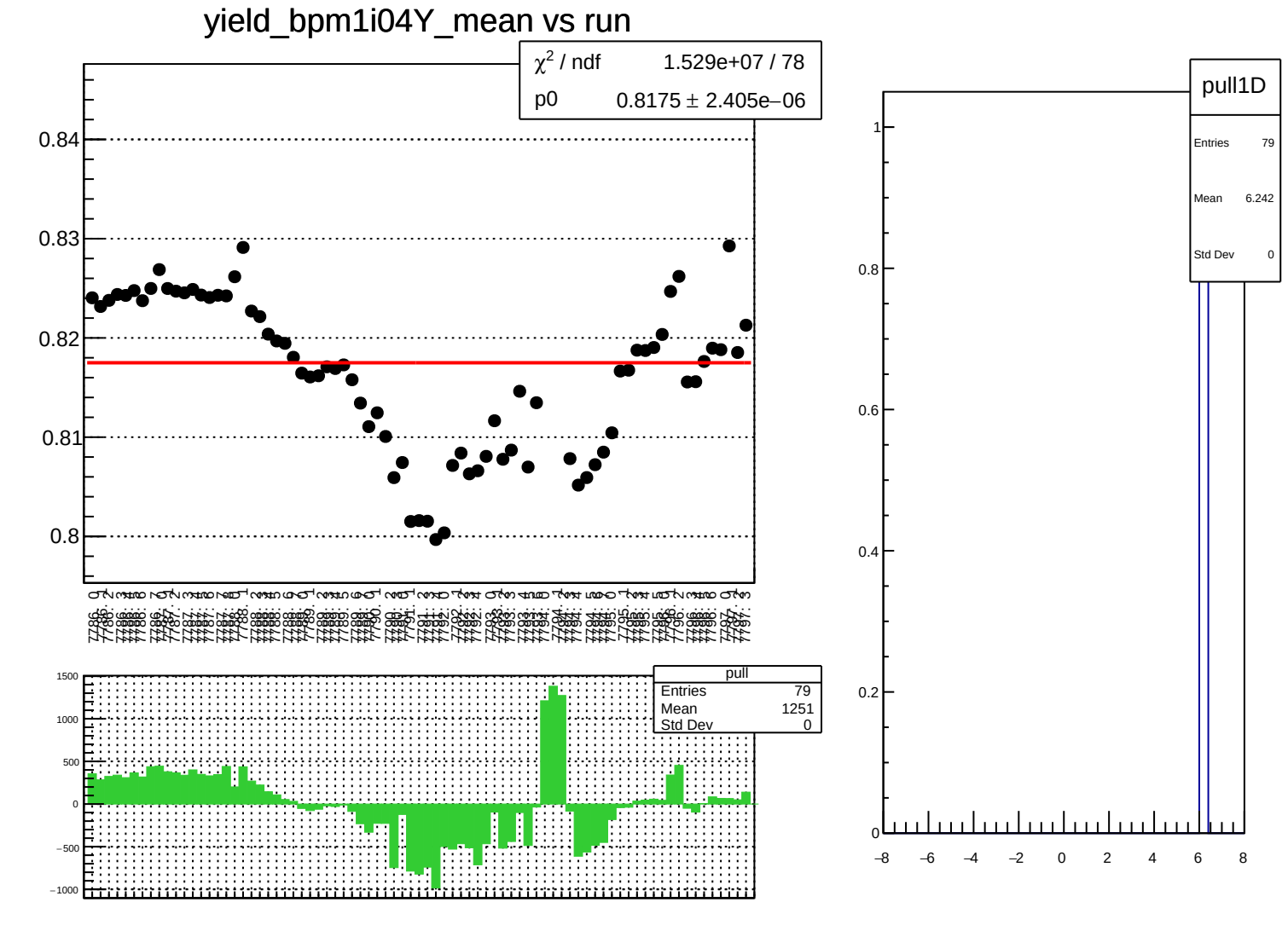

yield_bpm1i02Y_mean vs run
χ² / ndf 2.186e+06 / 78
p0 1.354 ± 8.541e−06
1.38
1.37
1.36
1.35
1.34
pull
Entries 79
Mean 1429
Std Dev 0
400
300
200
100
0
−100
−200

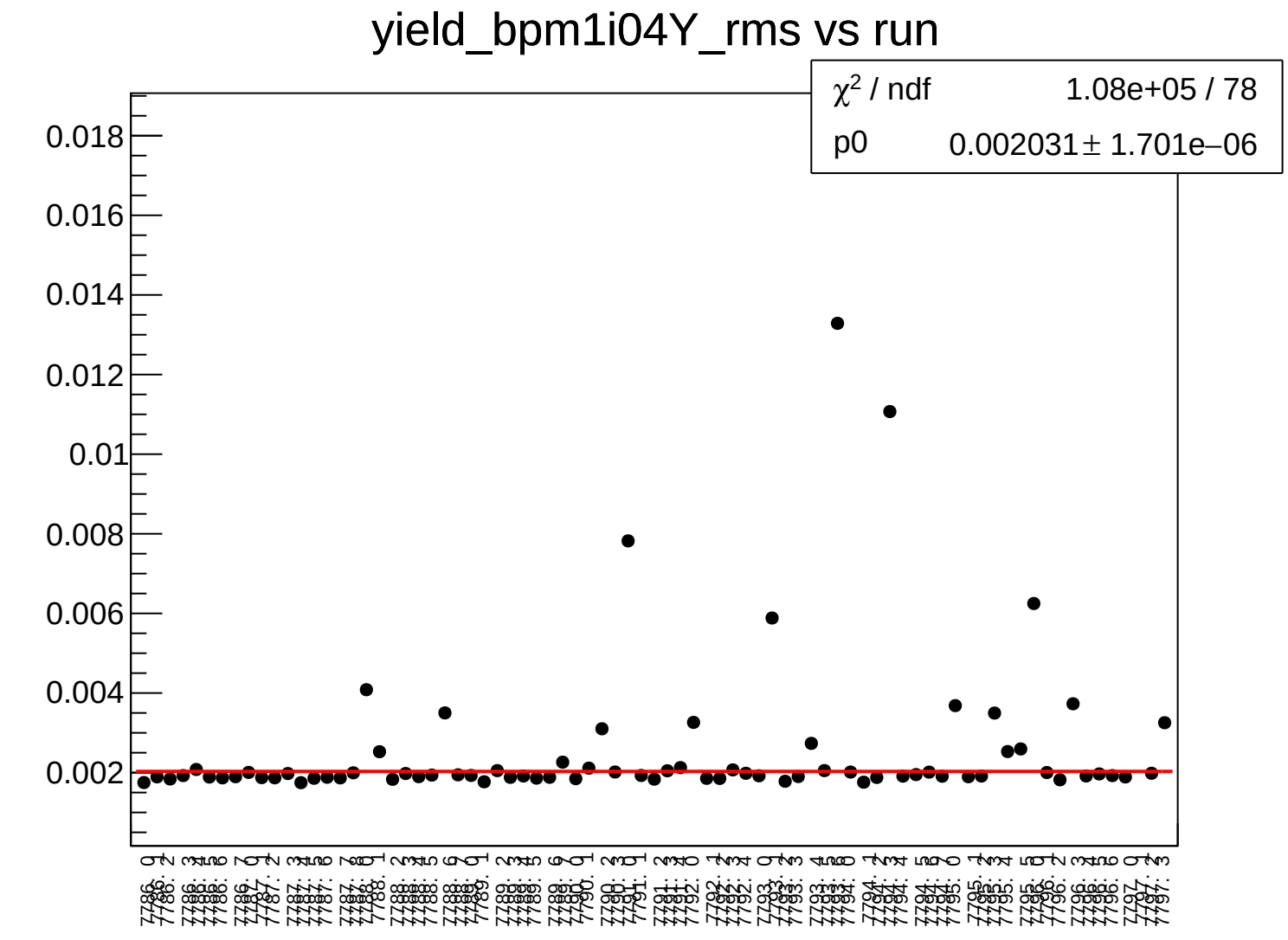

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

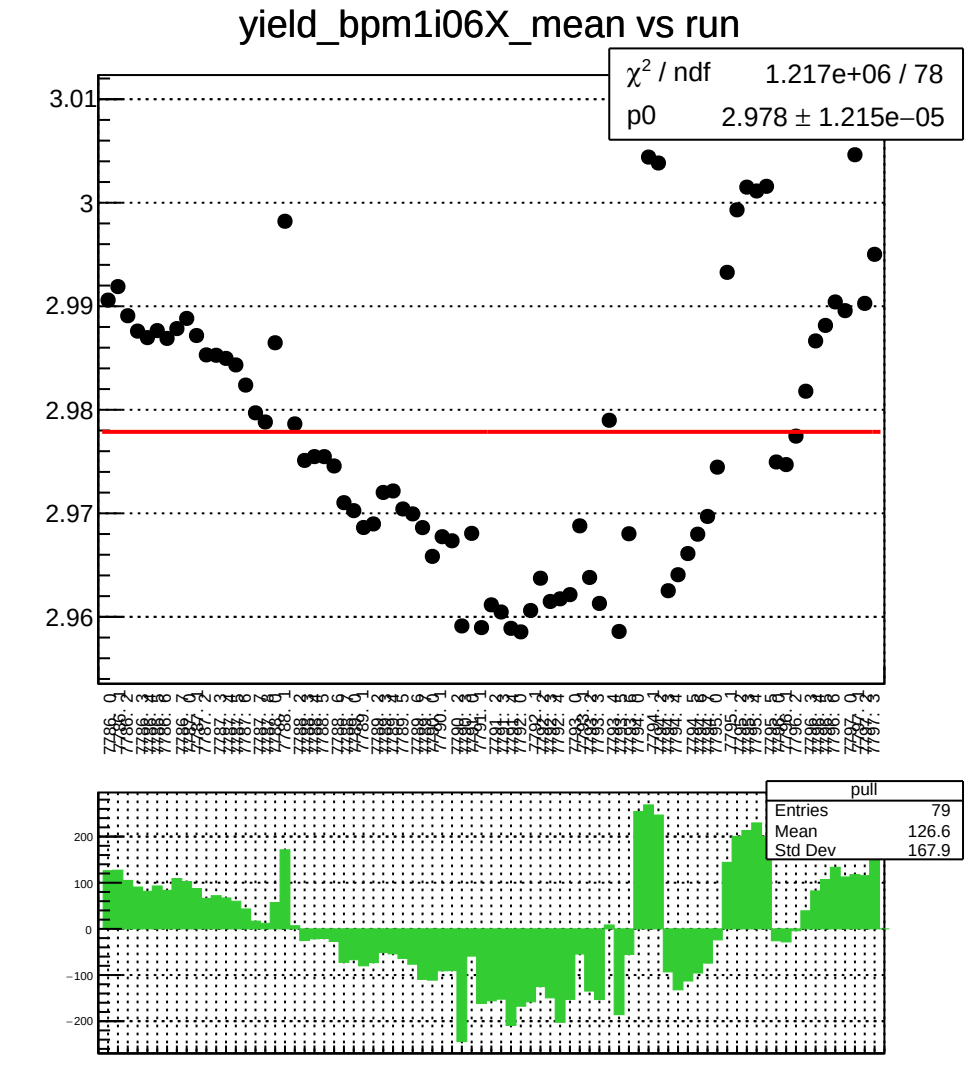

yield_bpm1i02Y_rms vs run
χ² / ndf 2.305e+04 / 78
p0 0.007424 ± 6.04e–06
0.025
0.02
0.015
0.01
0.005

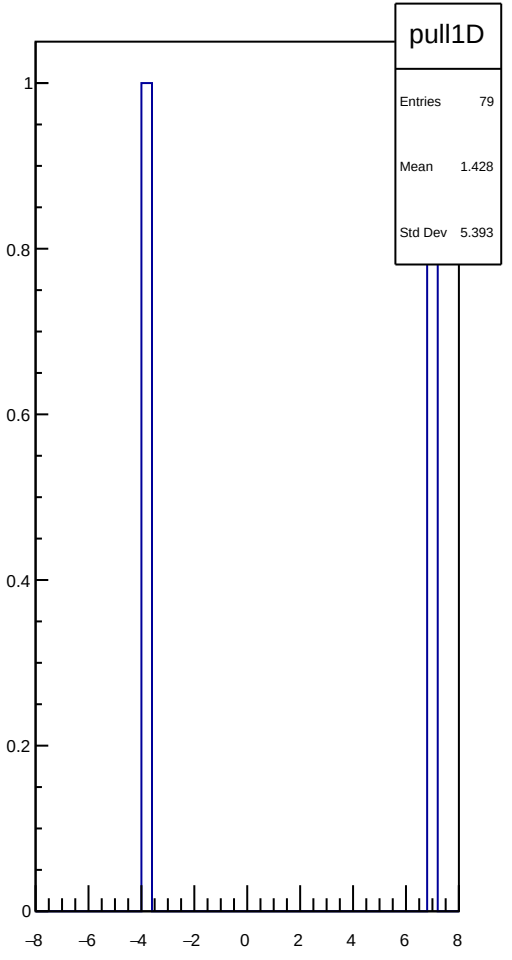

yield_bpm1i04X_mean vs run
χ² / ndf 4.731e+05 / 78
p0 0.5236 ± 1.16e−05
0.55
0.545
0.54
0.535
0.53
0.525
0.52
0.515
pull
Entries 79
Mean 1762
Std Dev 0
250
200
150
100
50
0
−50
−100
pull1D
Entries 79
Mean −4.699
Std Dev 2.382
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

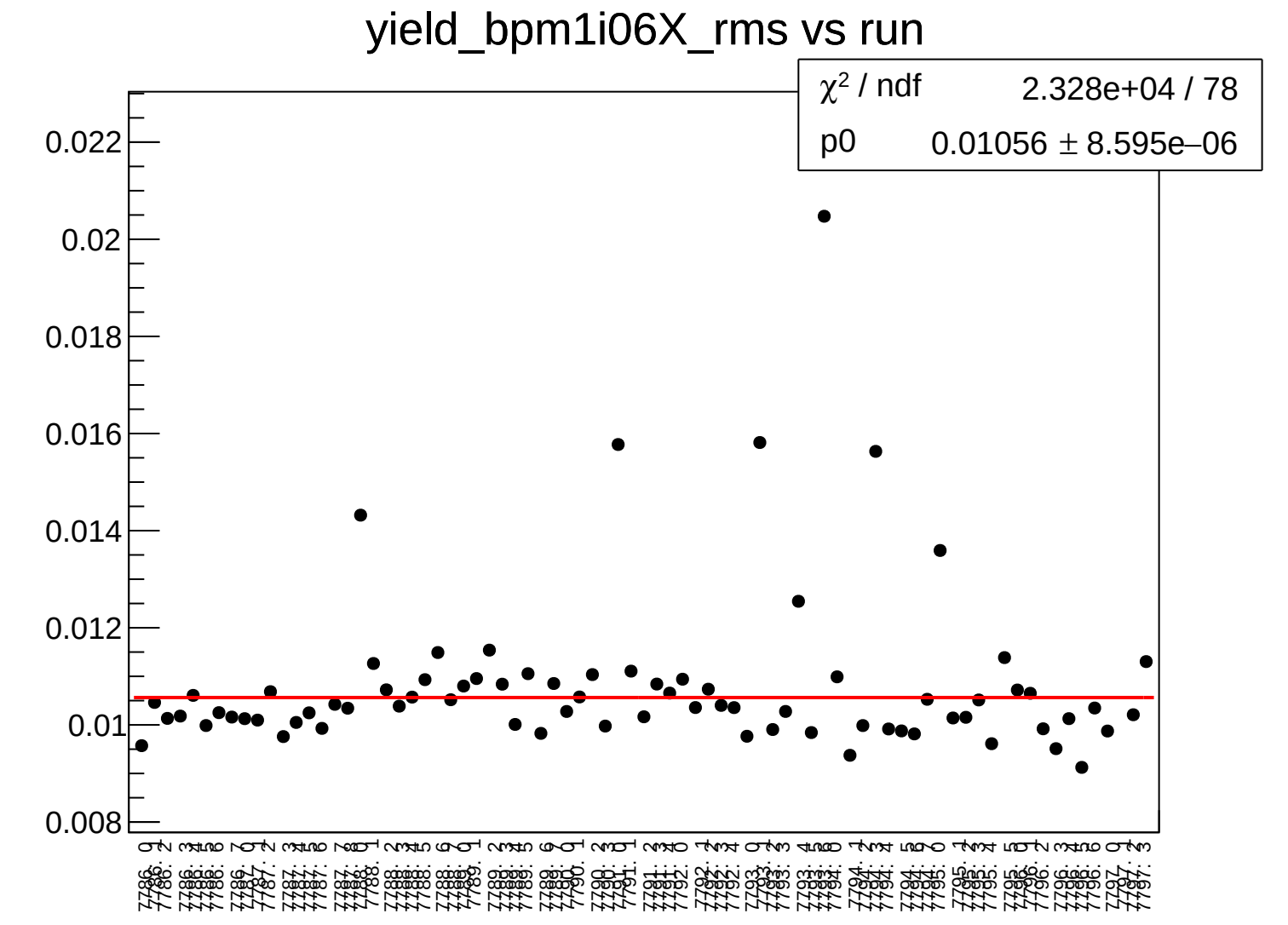

yield_bpm1i04X_rms vs run
χ^2 / ndf 6657 / 78
p0 0.01013 ± 8.2e−06
0.013
0.012
0.011
0.01
0.009

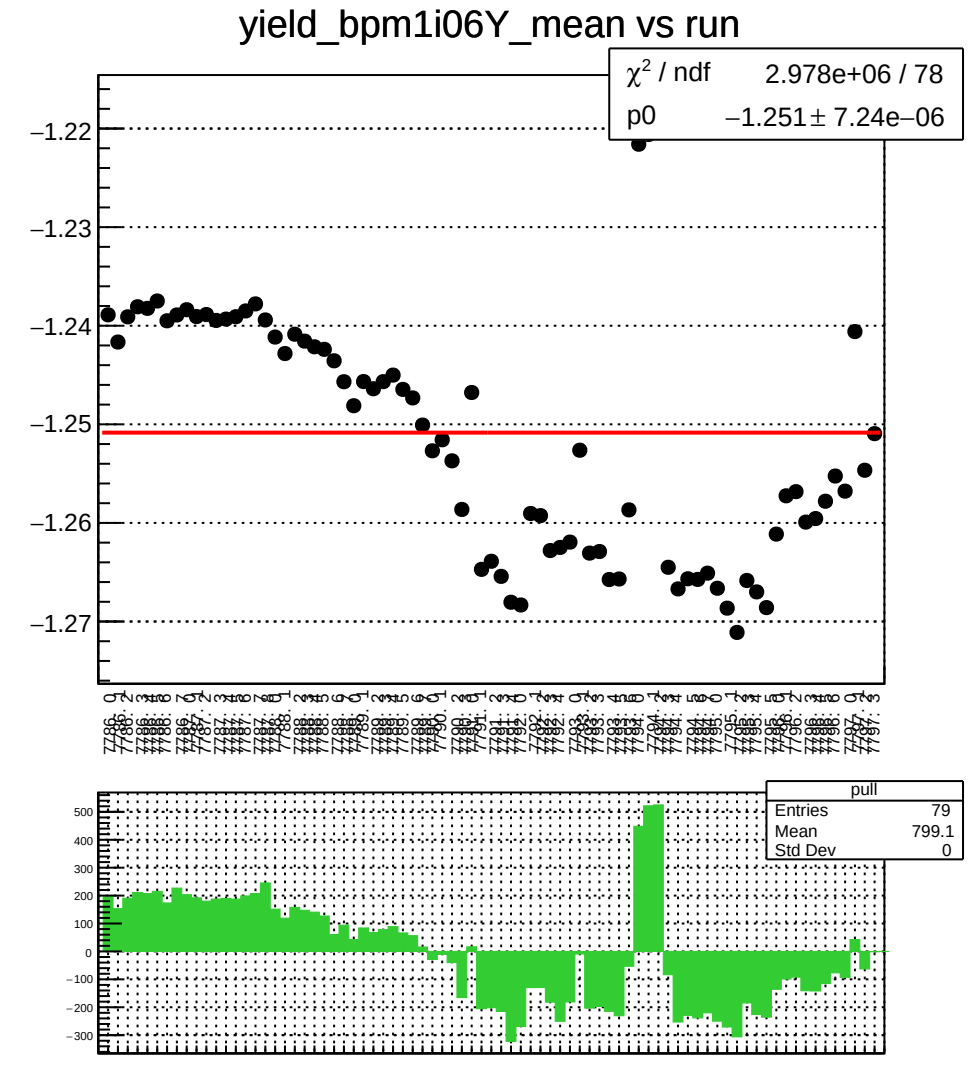

yield_bpm1i04Y_mean vs run
χ² / ndf 1.529e+07 / 78
p0 0.8175 ± 2.405e−06
0.84
0.83
0.82
0.81
0.8
pull
Entries 79
Mean 1251
Std Dev 0
1500
1000
500
0
−500
−1000
pull1D
Entries 79
Mean 6.242
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

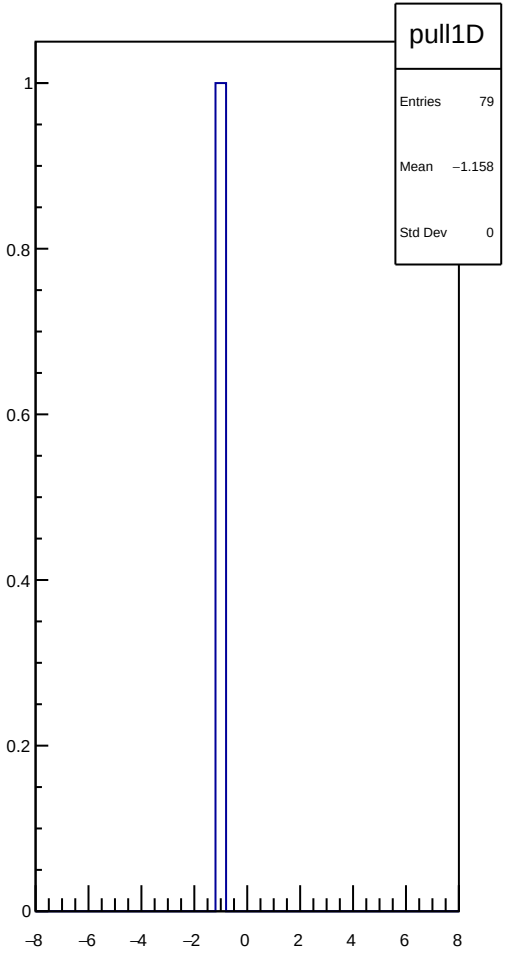

yield_bpm1i04Y_rms vs run
χ^2 / ndf 1.08e+05 / 78
p0 0.002031 ± 1.701e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

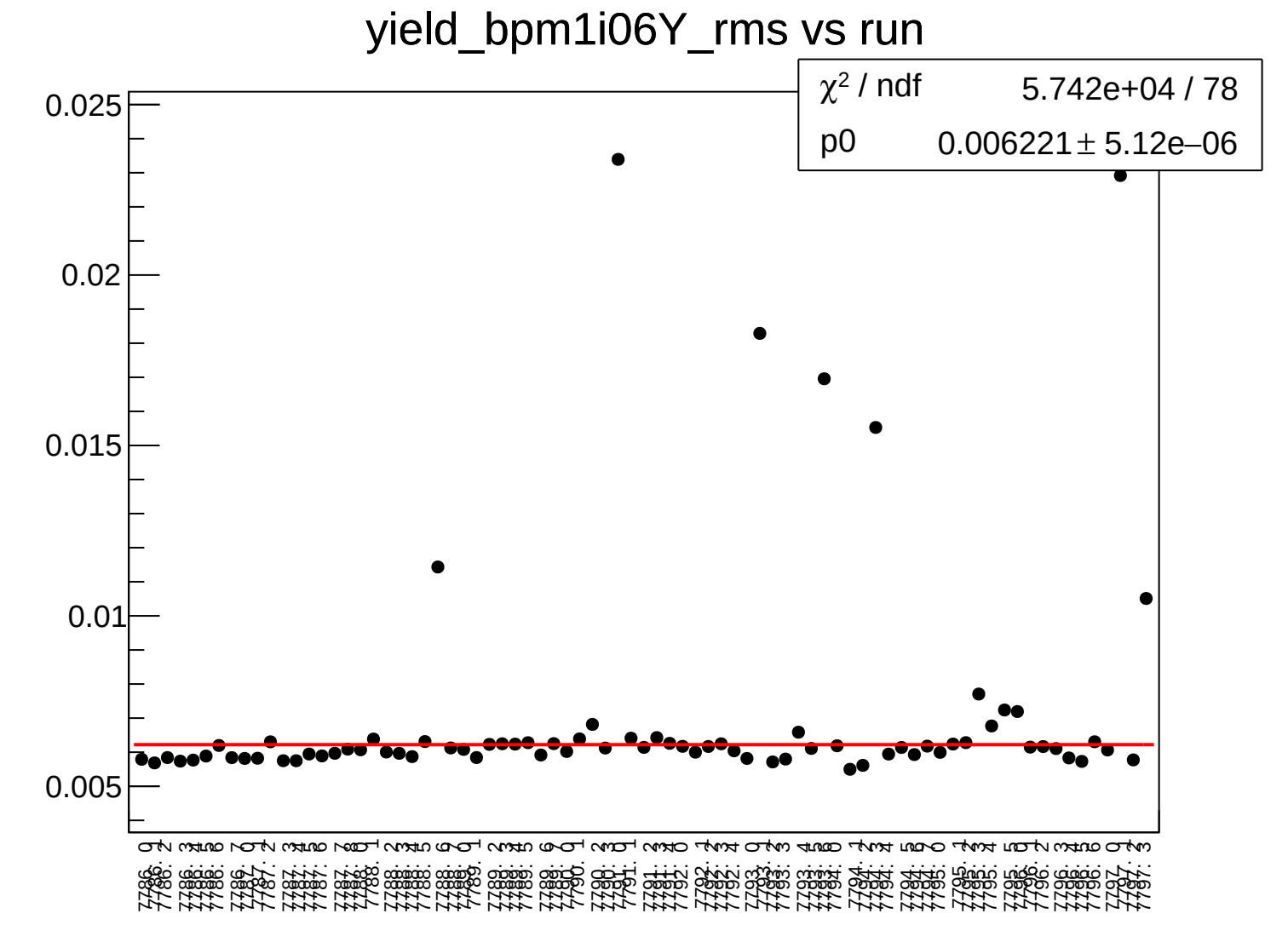

yield_bpm1i06X_mean vs run
χ² / ndf 1.217e+06 / 78
p0 2.978 ± 1.215e−05
3.01
3
2.99
2.98
2.97
2.96
pull
Entries 79
Mean 126.6
Std Dev 167.9
200
100
0
−100
−200

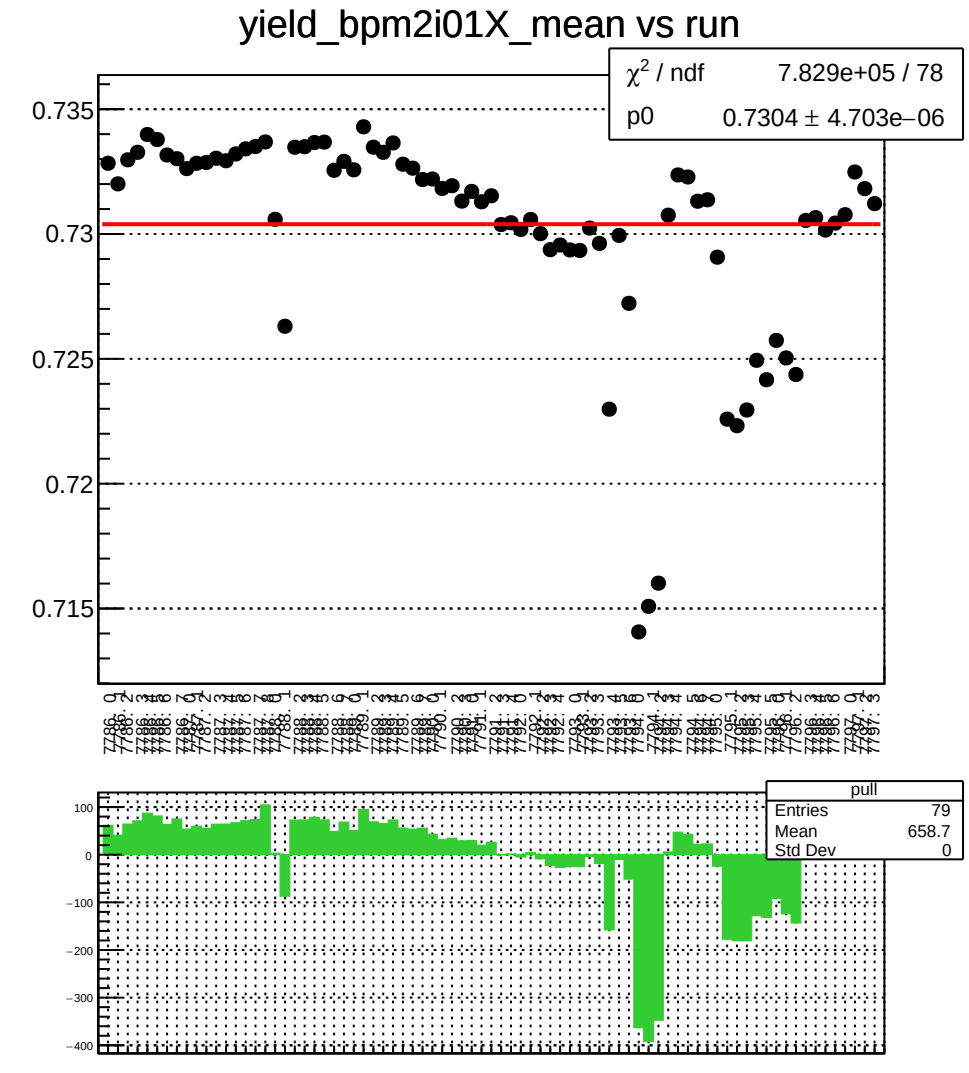

pull1D
Entries 79
Mean 1.428
Std Dev 5.393
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

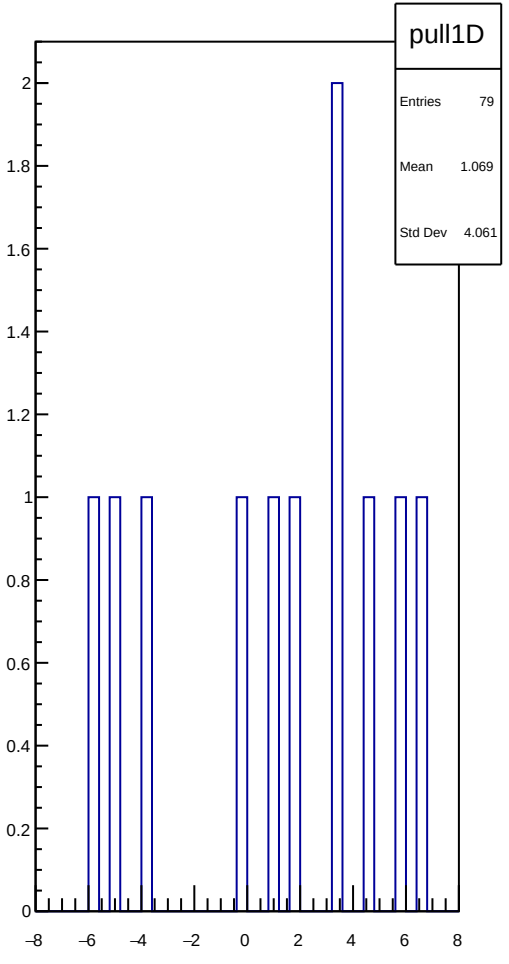

yield_bpm1i06X_rms vs run
χ² / ndf 2.328e+04 / 78
p0 0.01056 ± 8.595e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

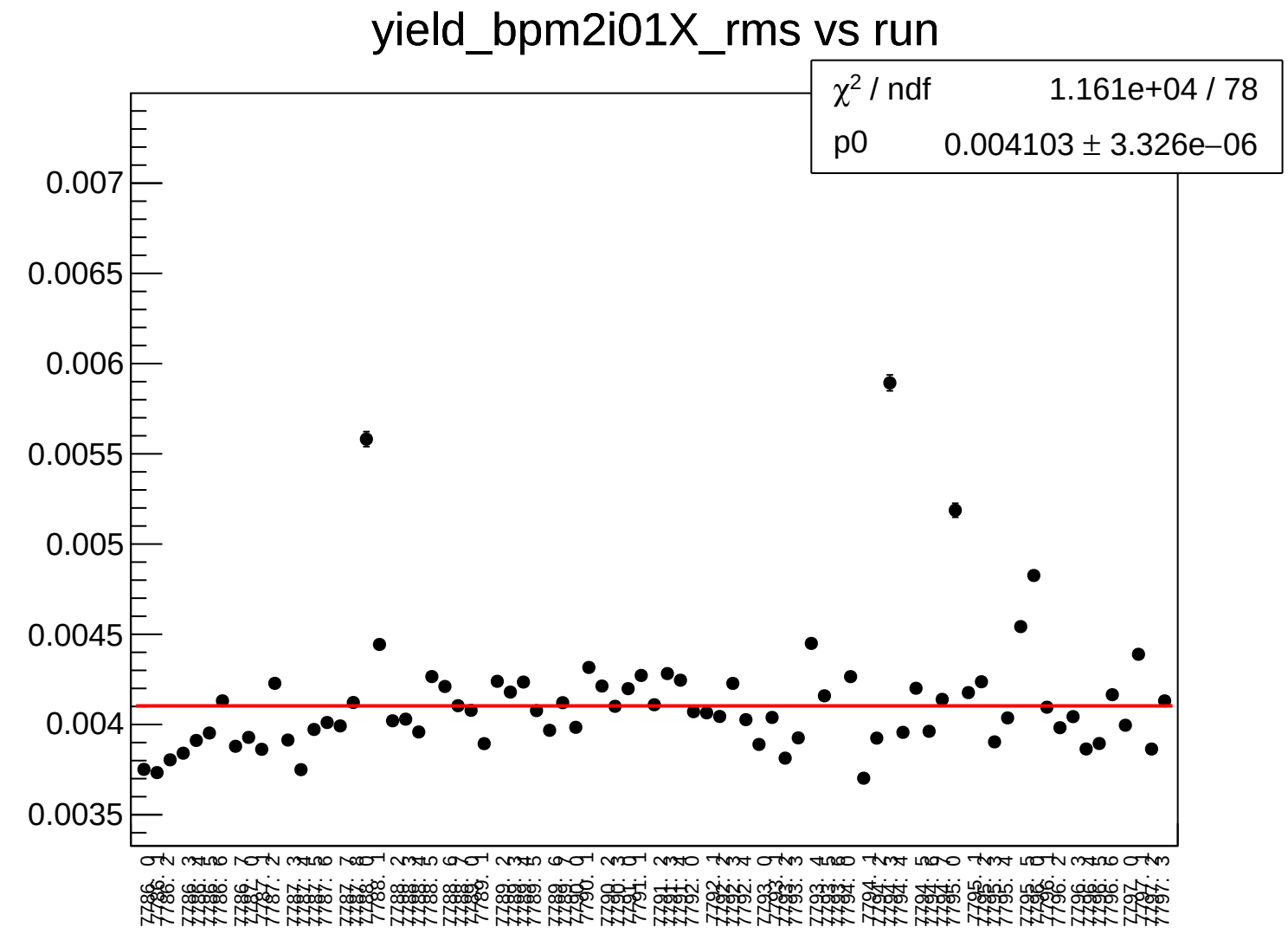

yield_bpm1i06Y_mean vs run
χ² / ndf 2.978e+06 / 78
p0 −1.251 ± 7.24e−06
−1.22
−1.23
−1.24
−1.25
−1.26
−1.27
pull
Entries 79
Mean 799.1
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

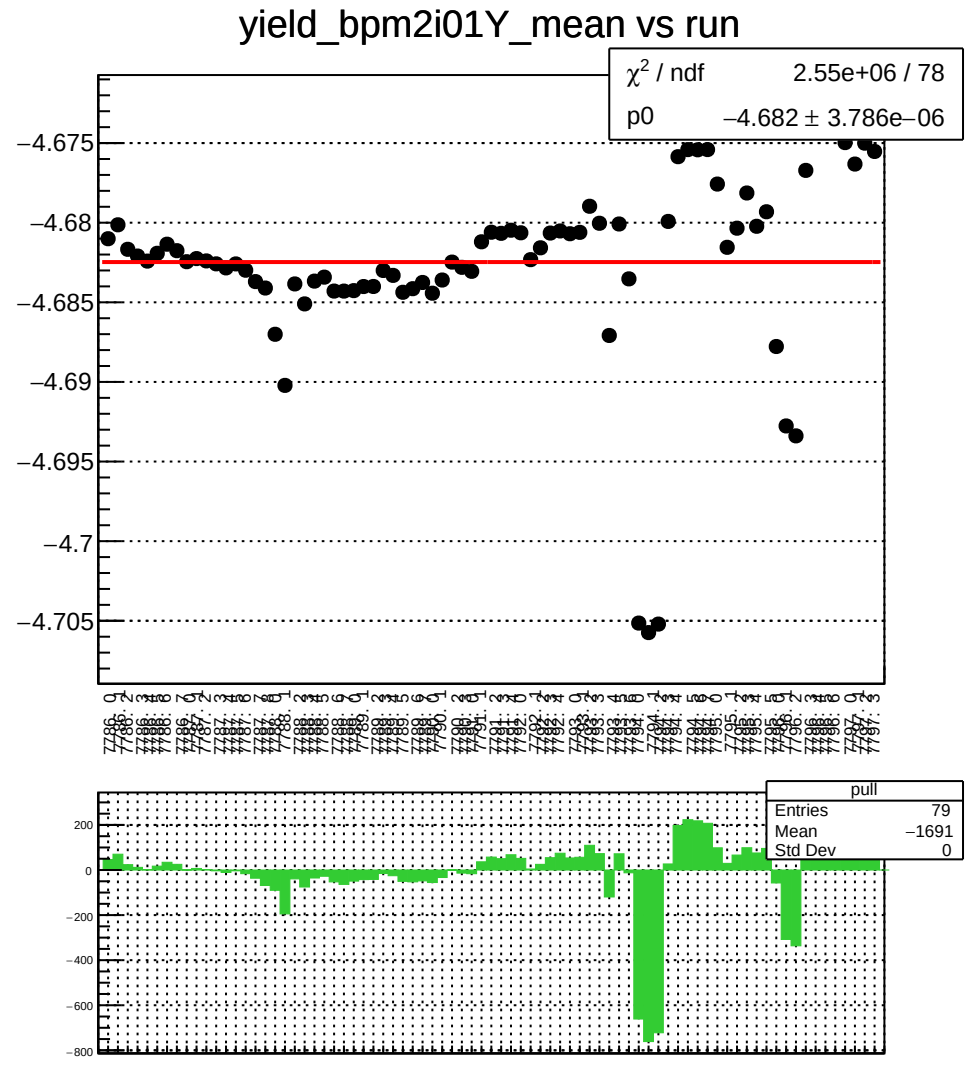

pull1D
Entries 79
Mean −1.158
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

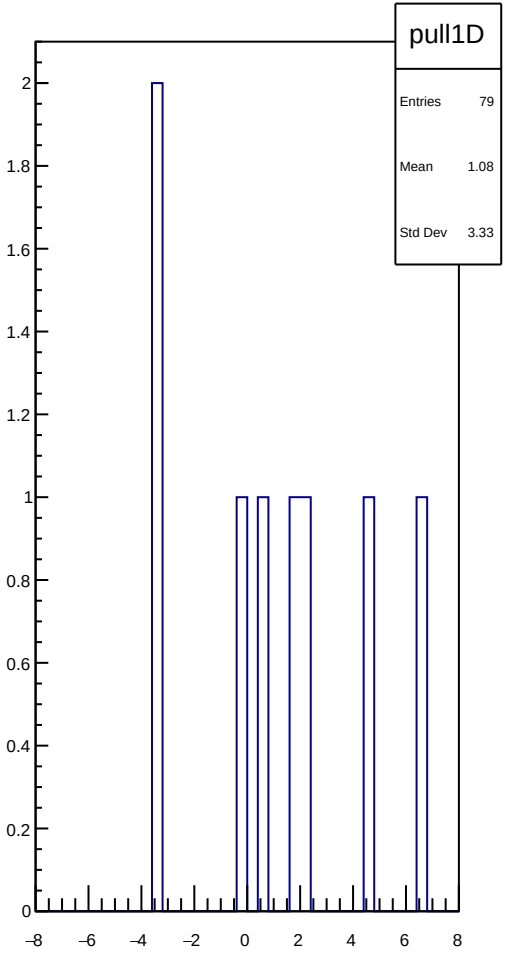

yield_bpm1i06Y_rms vs run
χ² / ndf 5.742e+04 / 78
p0 0.006221 ± 5.12e–06
0.025
0.02
0.015
0.01
0.005

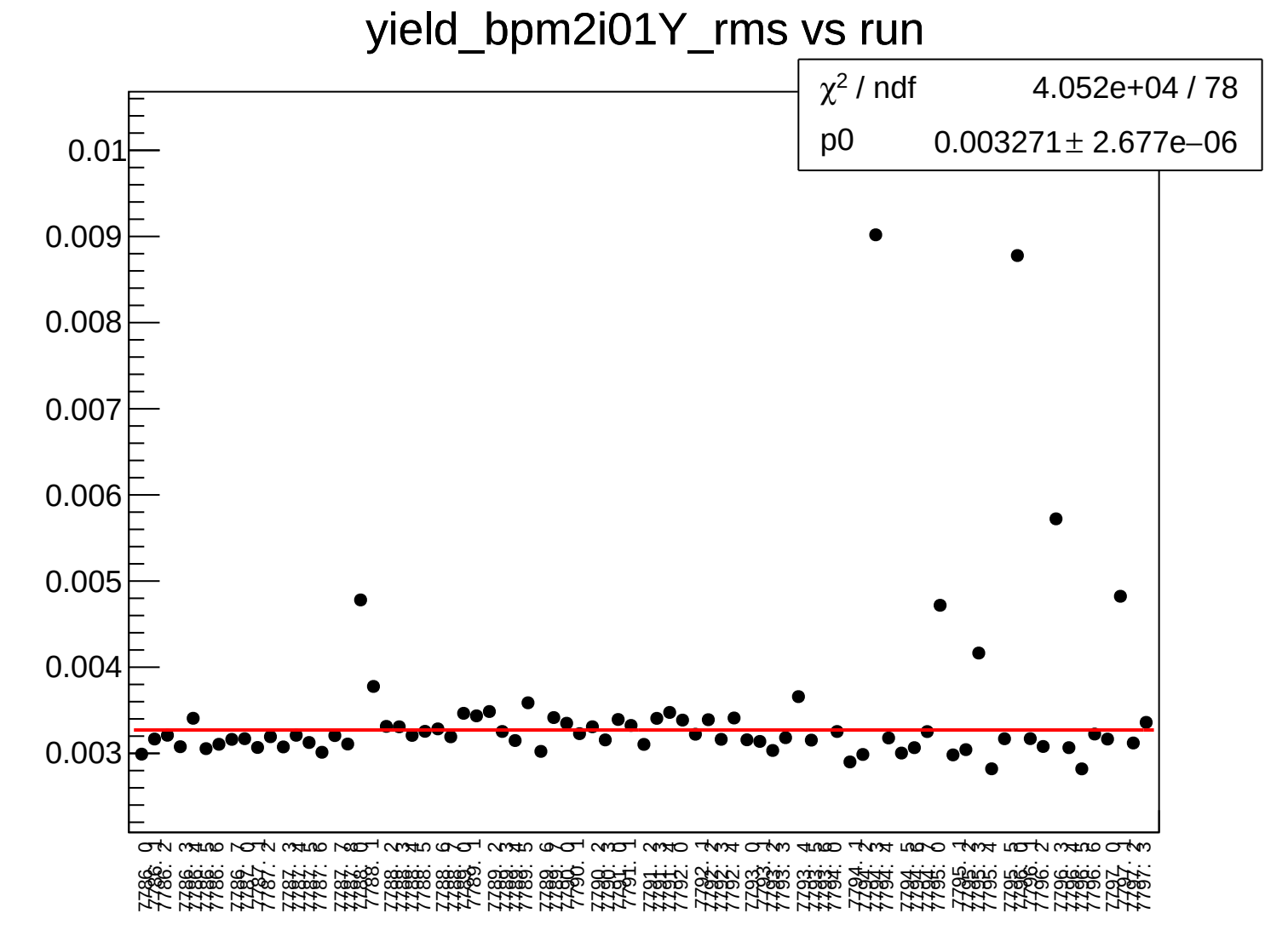

yield_bpm2i01X_mean vs run
χ² / ndf 7.829e+05 / 78
p0 0.7304 ± 4.703e−06
0.735
0.73
0.725
0.72
0.715
pull
Entries 79
Mean 658.7
Std Dev 0
100
0
−100
−200
−300
−400

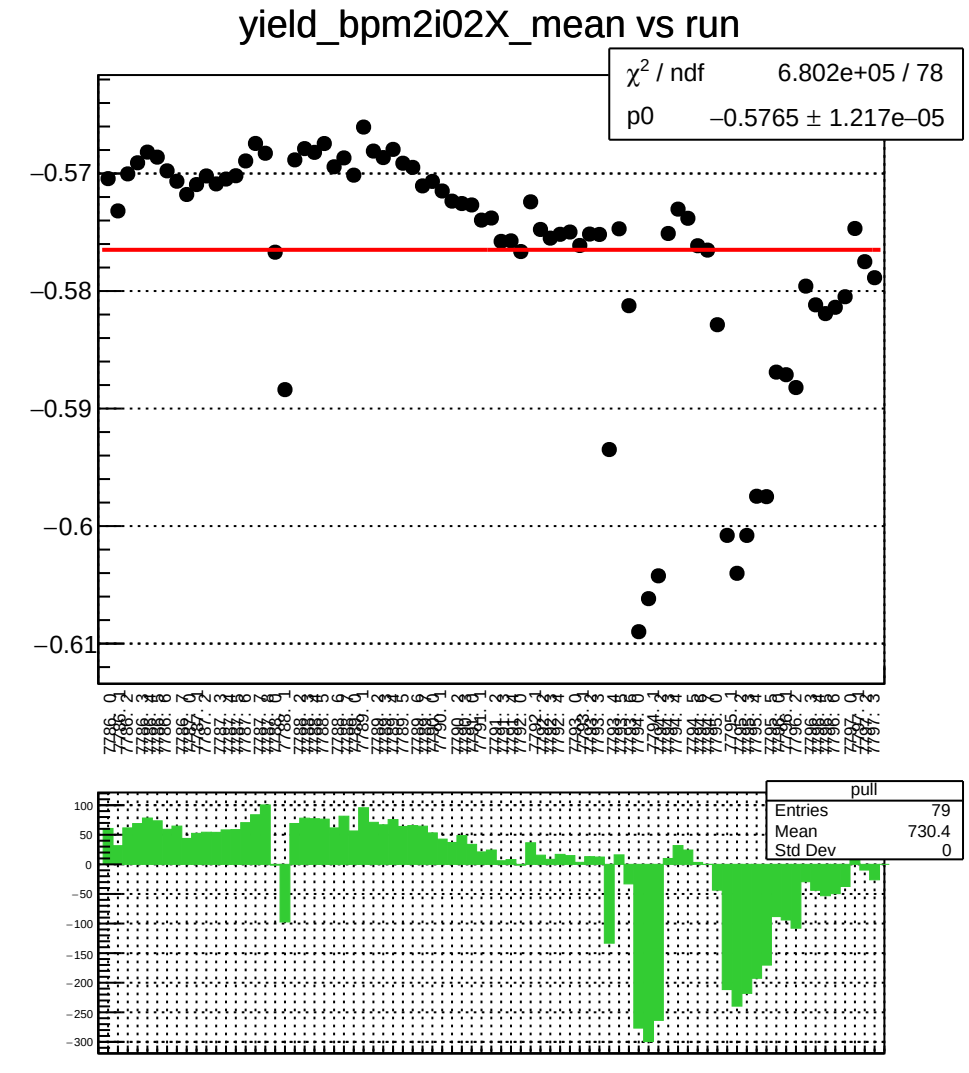

pull1D
Entries 79
Mean 1.069
Std Dev 4.061
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

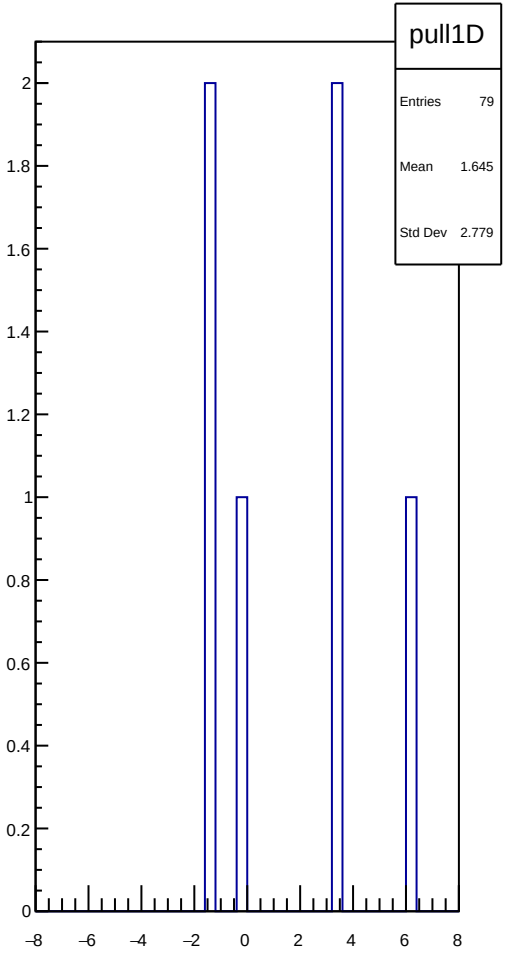

yield_bpm2i01X_rms vs run
χ^2 / ndf 1.161e+04 / 78
p0 0.004103 ± 3.326e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

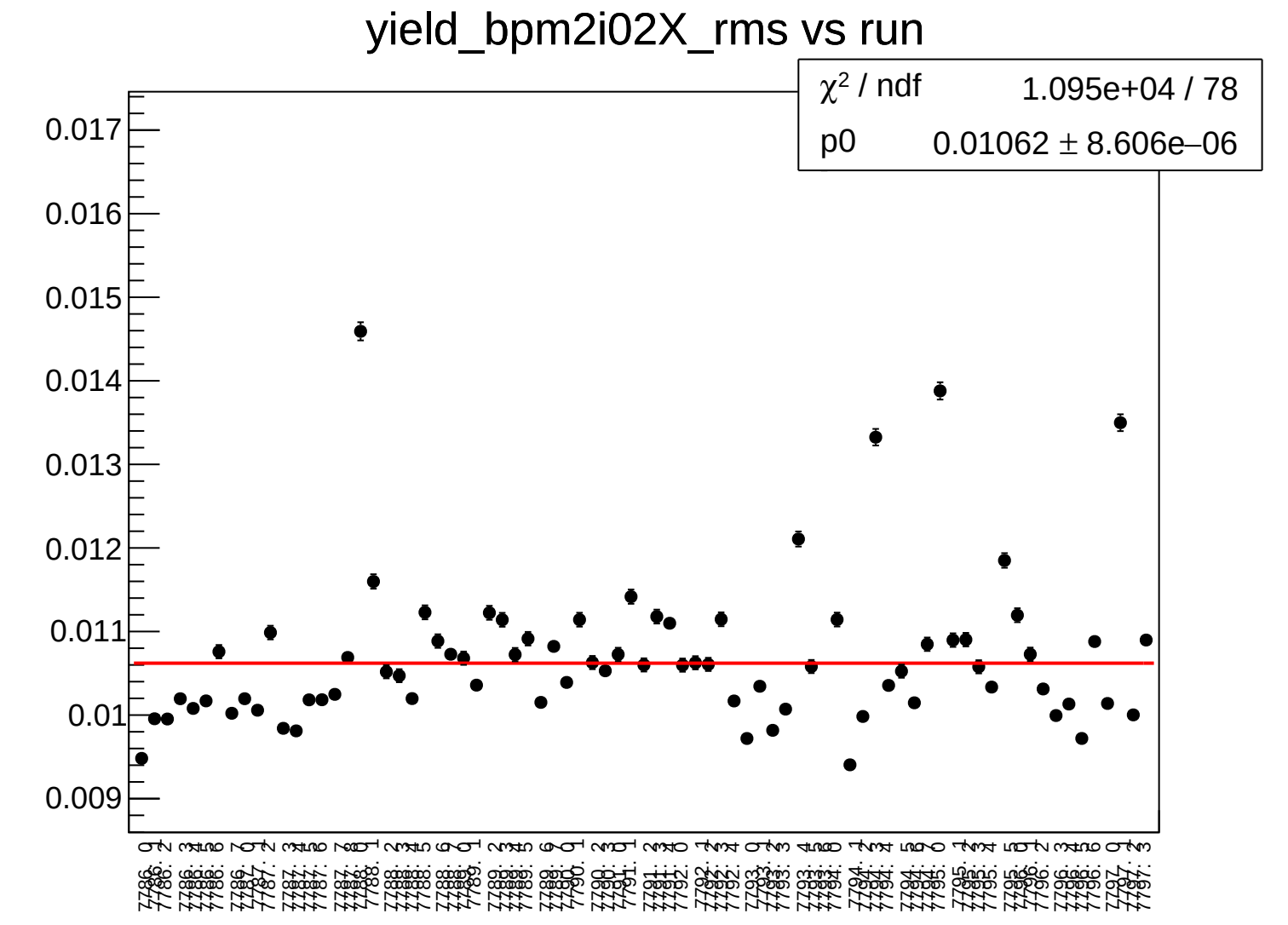

yield_bpm2i01Y_mean vs run
χ² / ndf 2.55e+06 / 78
p0 −4.682 ± 3.786e−06
−4.675
−4.68
−4.685
−4.69
−4.695
−4.7
−4.705
pull
Entries 79
Mean −1691
Std Dev 0
200
0
−200
−400
−600
−800

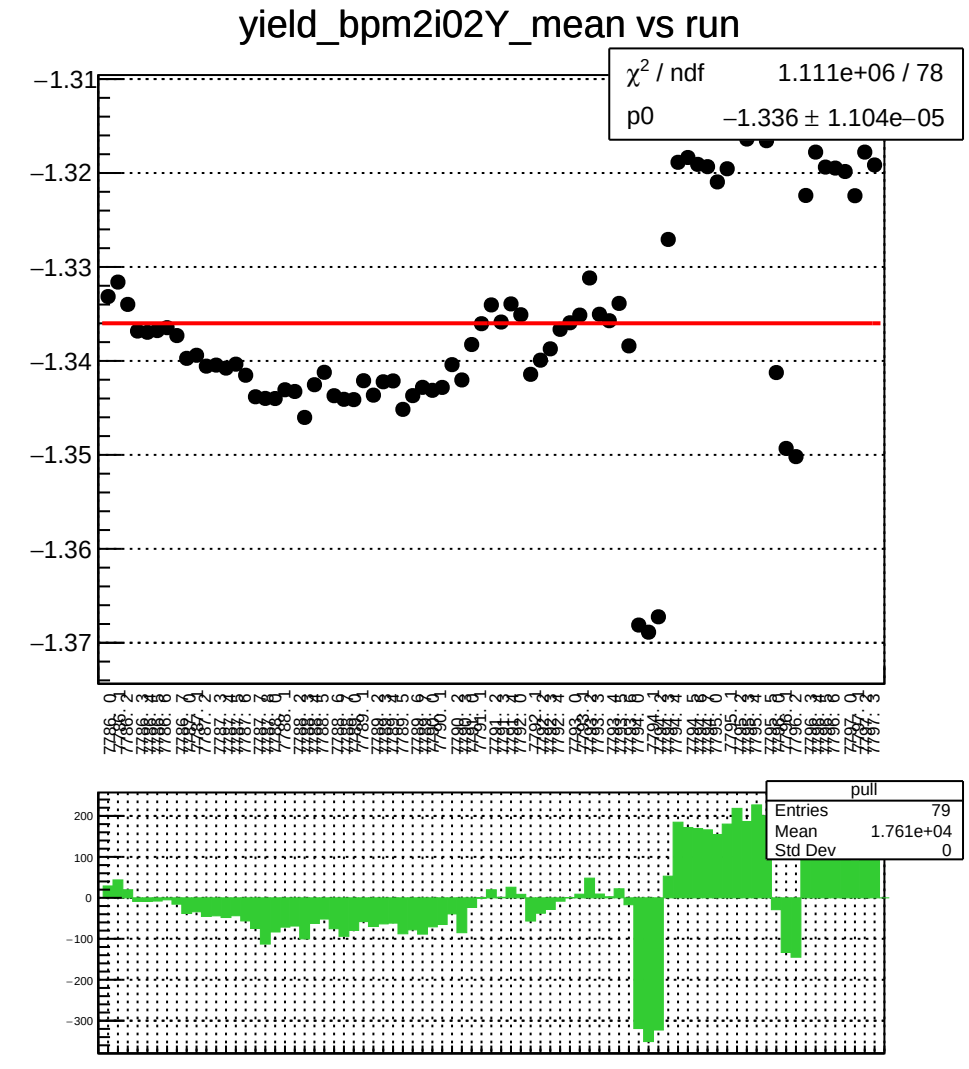

pull1D
Entries 79
Mean 1.08
Std Dev 3.33
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

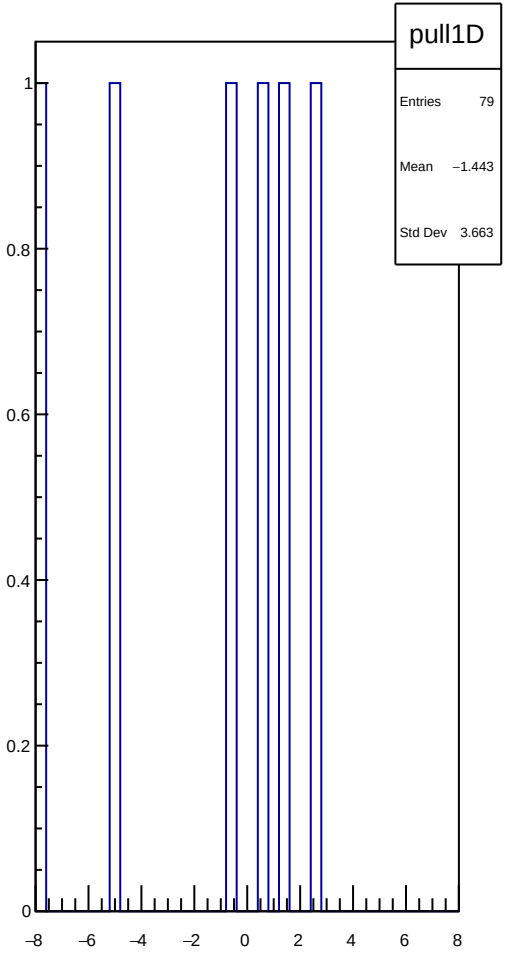

yield_bpm2i01Y_rms vs run
χ^2 / ndf 4.052e+04 / 78
p0 0.003271 ± 2.677e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

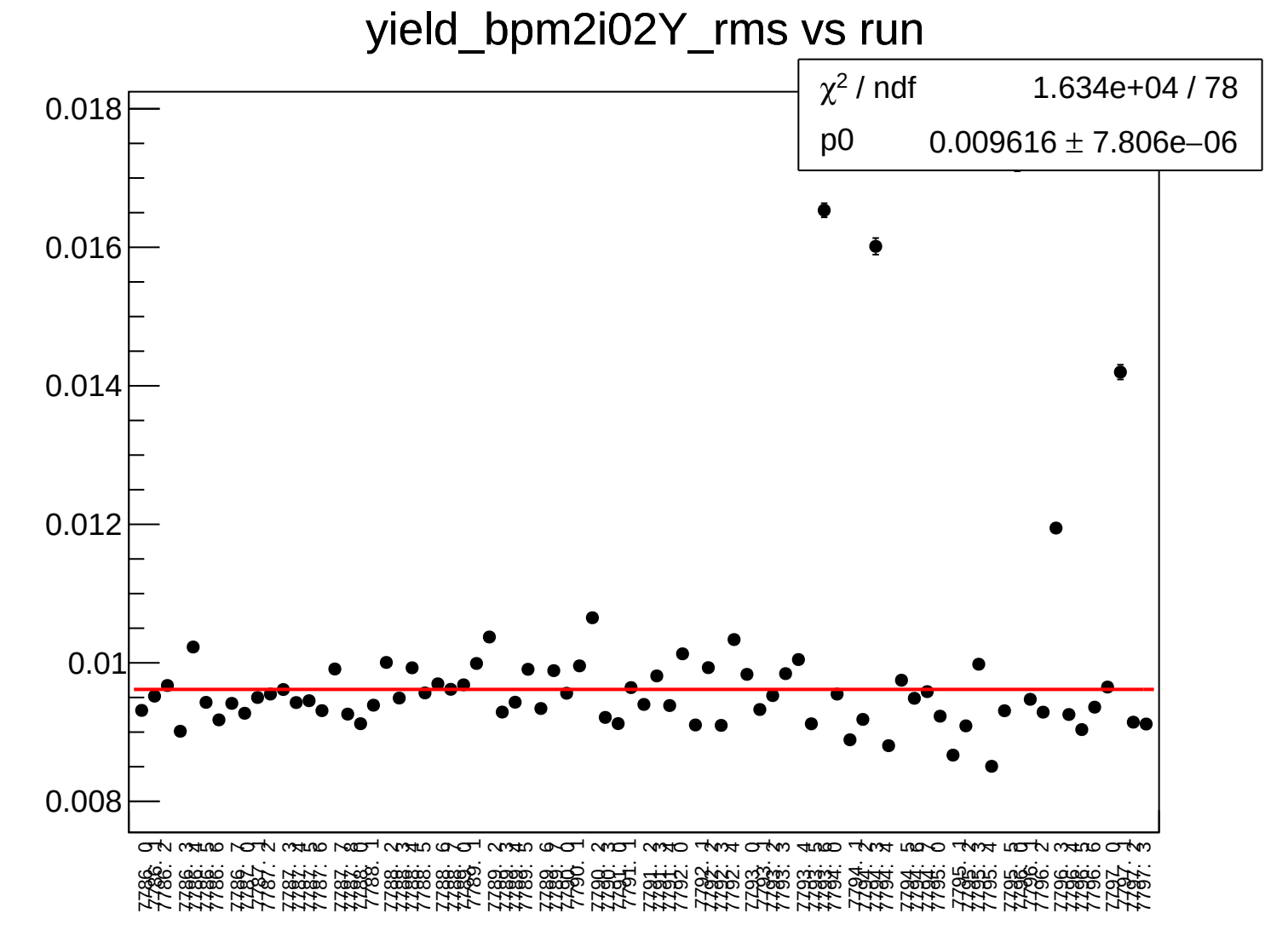

yield_bpm2i02X_mean vs run
χ² / ndf 6.802e+05 / 78
p0 −0.5765 ± 1.217e−05
−0.57
−0.58
−0.59
−0.6
−0.61
pull
Entries 79
Mean 730.4
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300

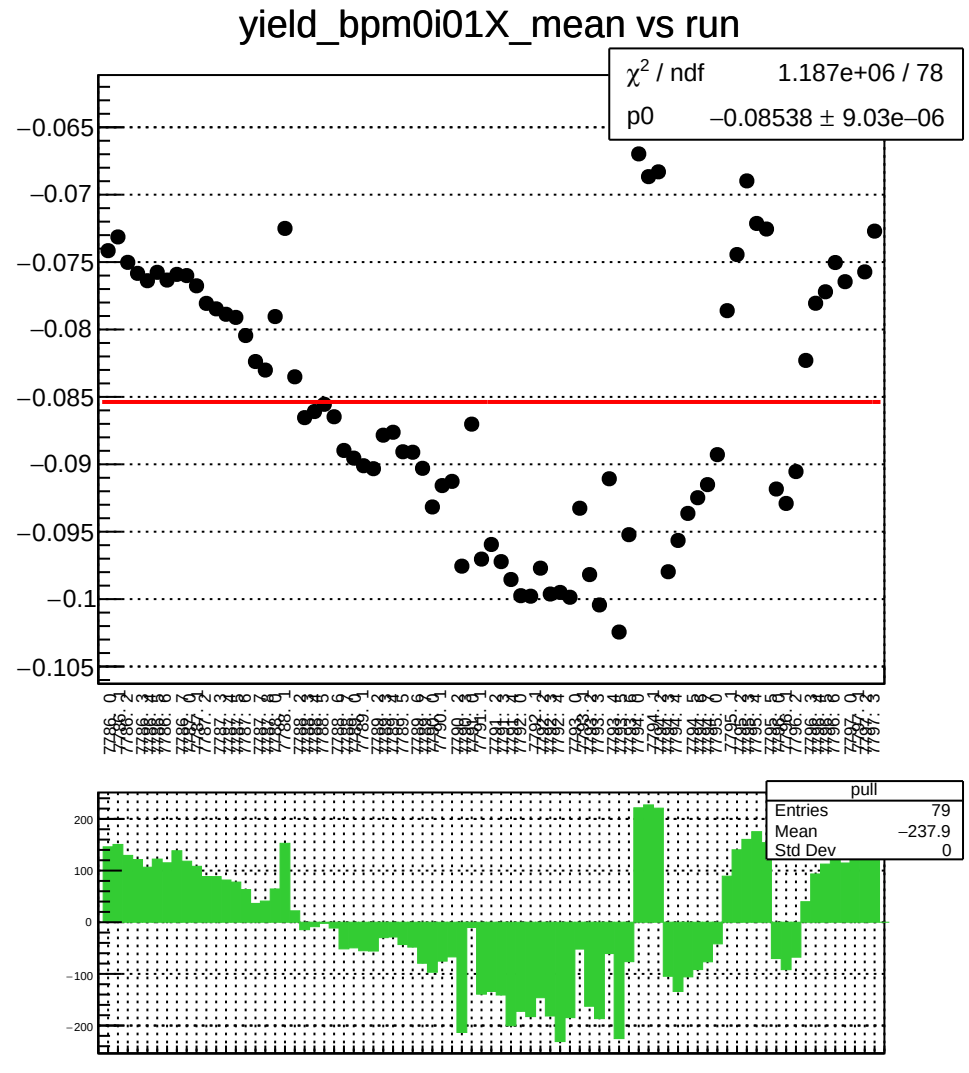

pull1D
Entries 79
Mean 1.645
Std Dev 2.779
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

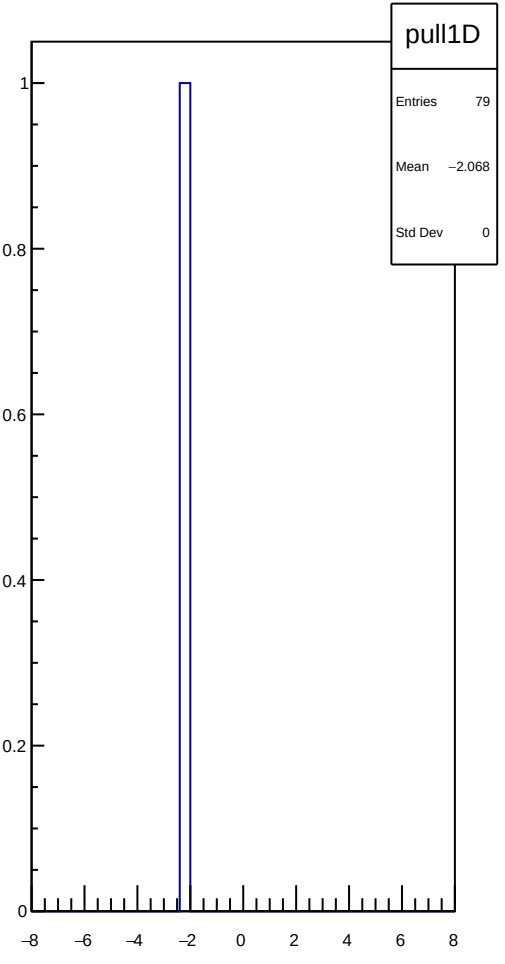

yield_bpm2i02X_rms vs run
χ² / ndf 1.095e+04 / 78
p0 0.01062 ± 8.606e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

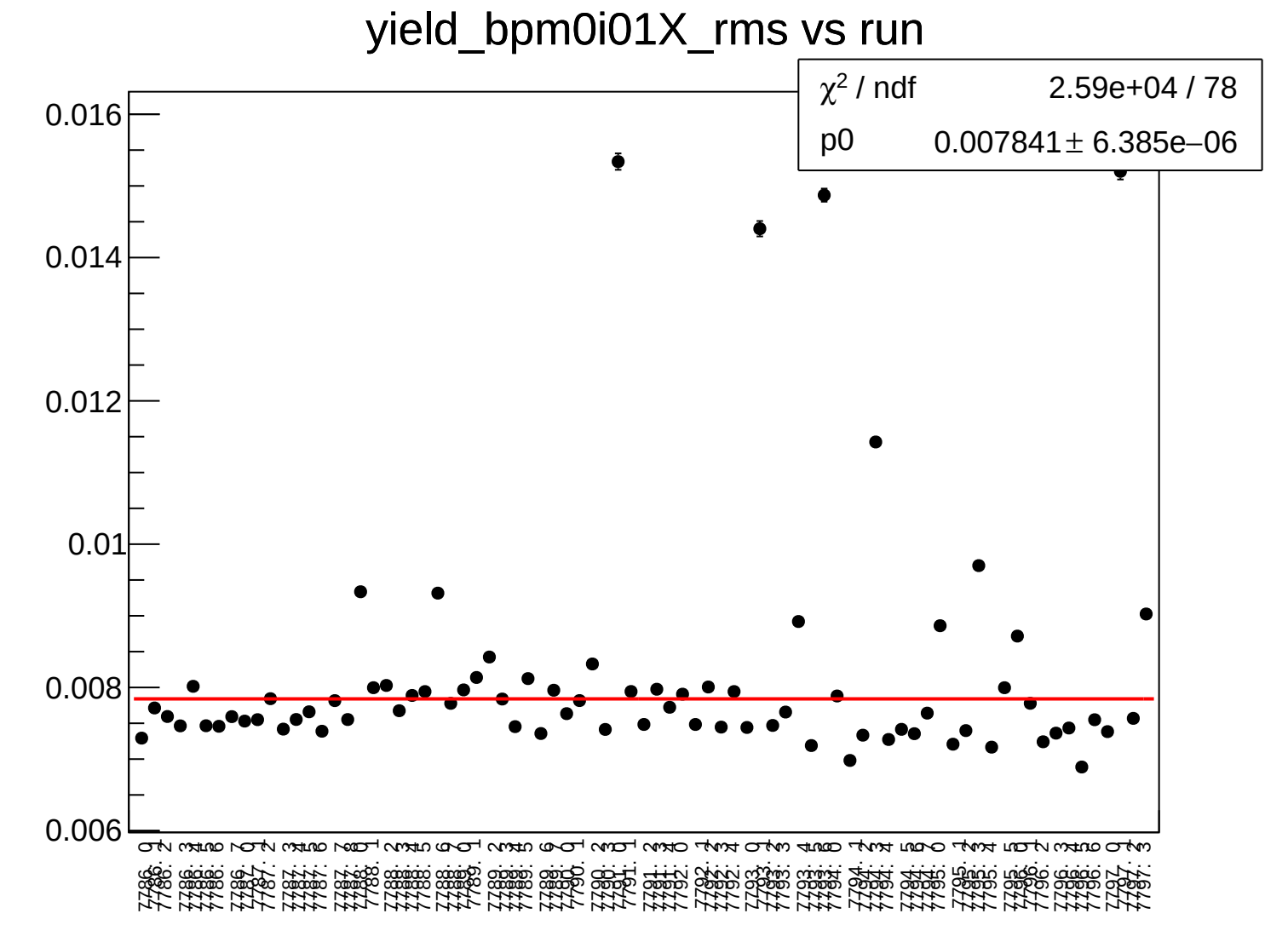

yield_bpm2i02Y_mean vs run
χ² / ndf 1.111e+06 / 78
p0 −1.336 ± 1.104e−05
−1.31
−1.32
−1.33
−1.34
−1.35
−1.36
−1.37
pull
Entries 79
Mean 1.761e+04
Std Dev 0
200
100
0
−100
−200
−300

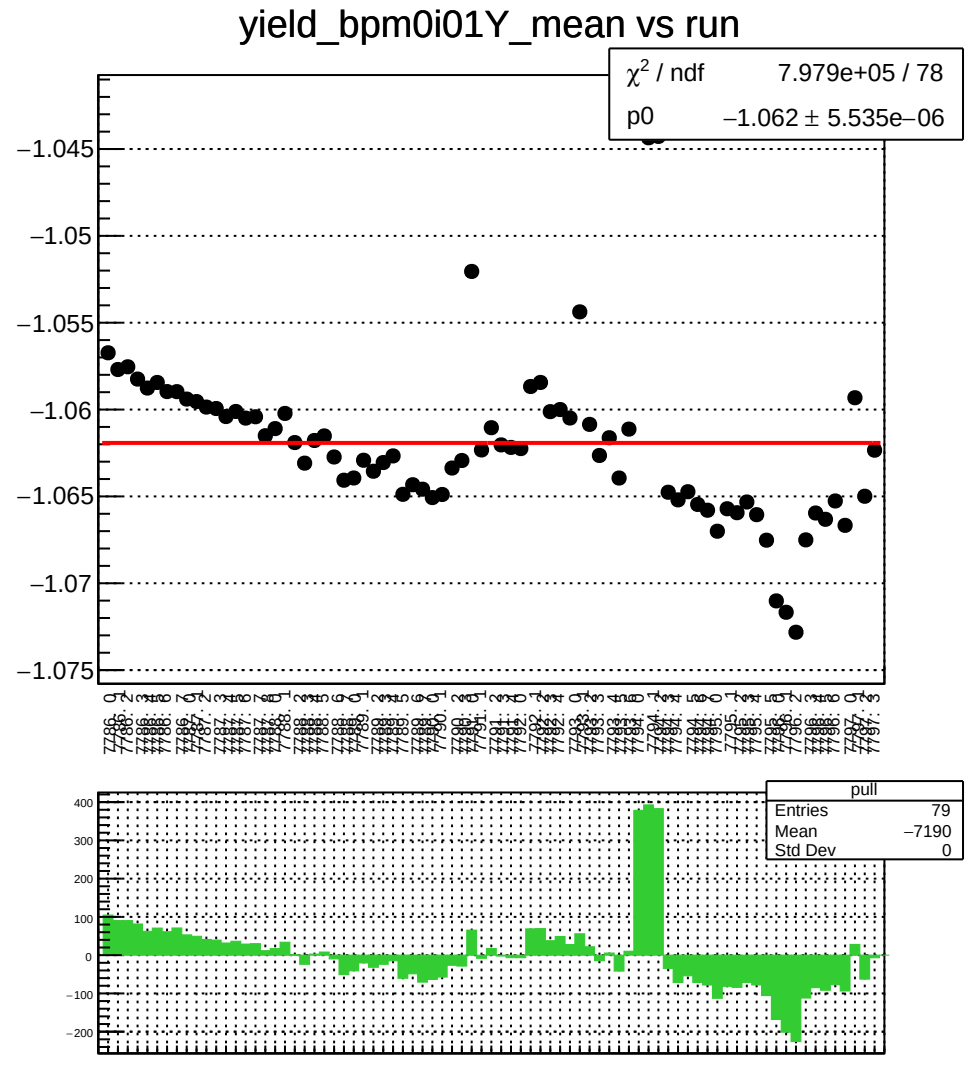

pull1D
Entries 79
Mean −1.443
Std Dev 3.663
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

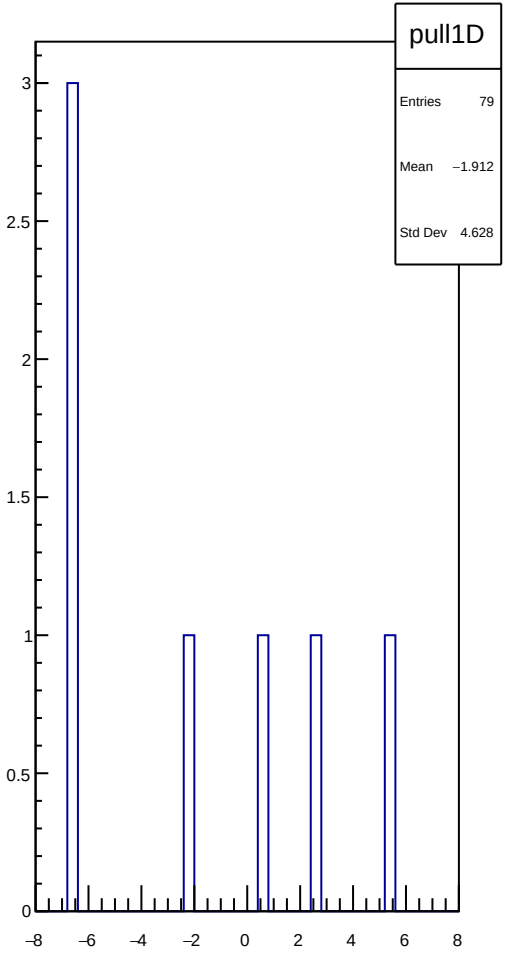

yield_bpm2i02Y_rms vs run
χ² / ndf 1.634e+04 / 78
p0 0.009616 ± 7.806e−06
0.018
0.016
0.014
0.012
0.01
0.008

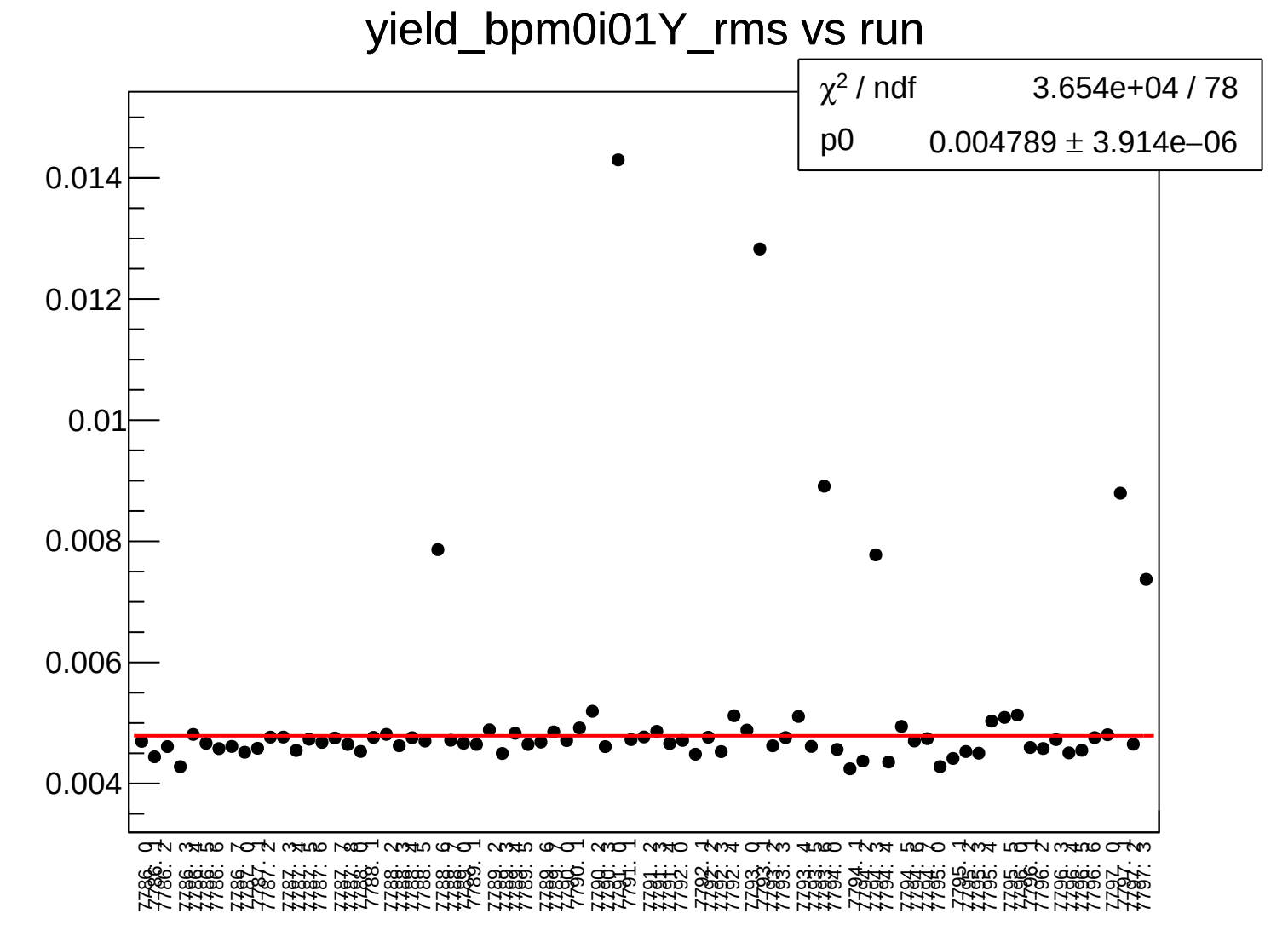

yield_bpm0i01X_mean vs run
χ² / ndf 1.187e+06 / 78
p0 −0.08538 ± 9.03e−06
−0.065
−0.07
−0.075
−0.08
−0.085
−0.09
−0.095
−0.1
−0.105
pull
Entries 79
Mean −237.9
Std Dev 0
200
100
0
−100
−200

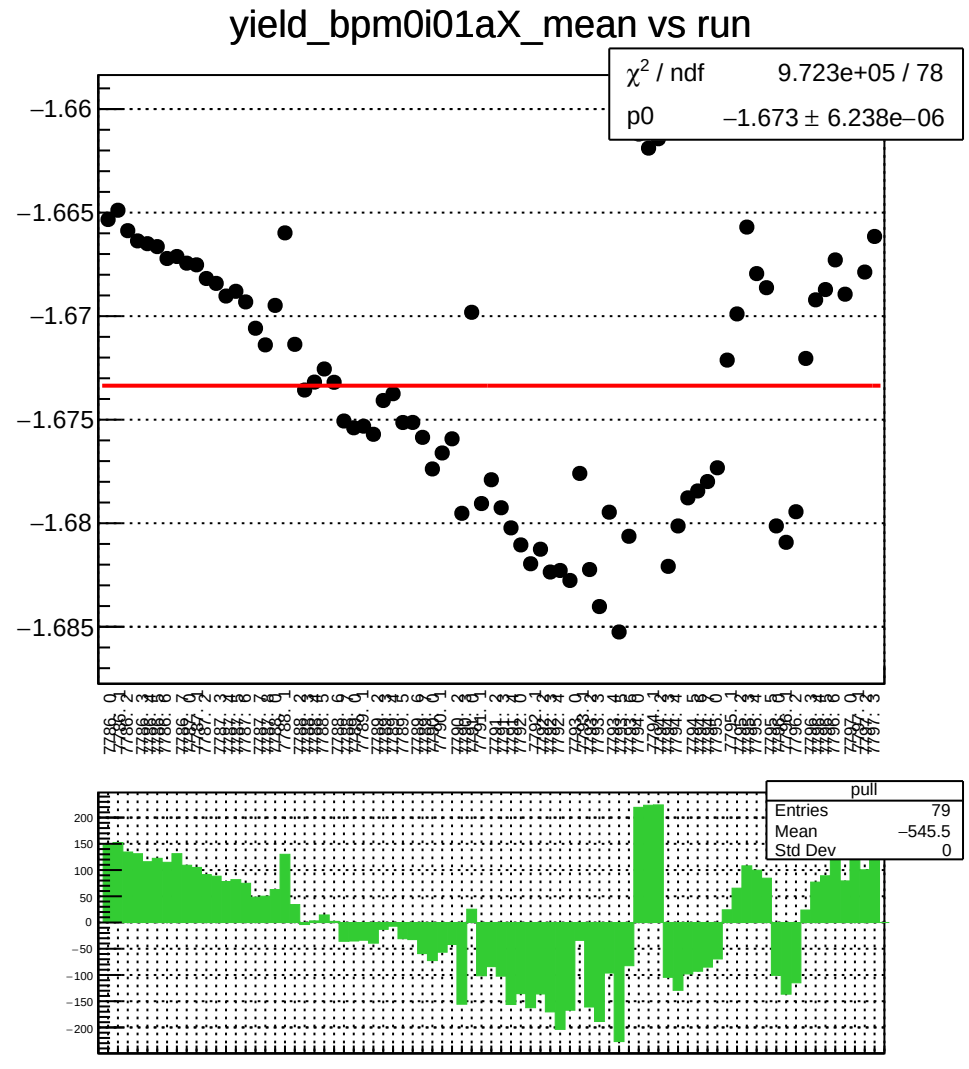

pull1D
Entries 79
Mean −2.068
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

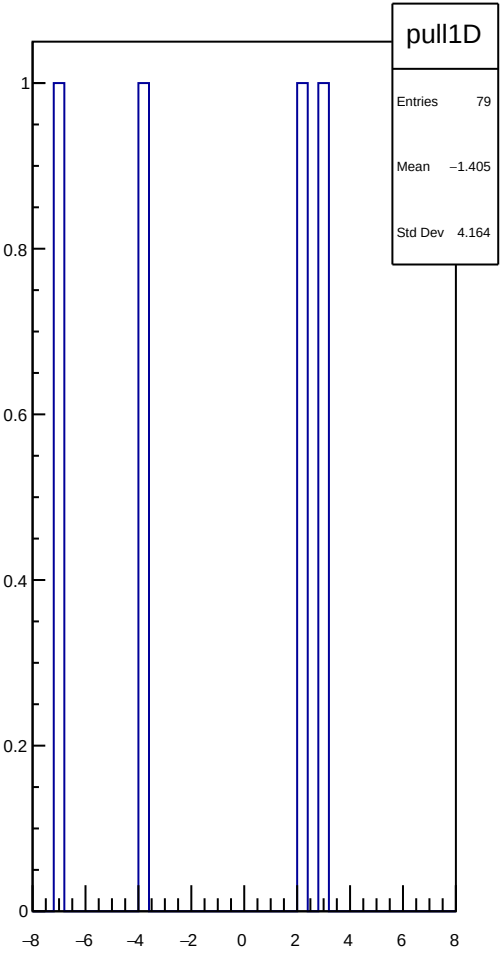

yield_bpm0i01X_rms vs run
χ^2 / ndf 2.59e+04 / 78
p0 0.007841 ± 6.385e−06
0.016
0.014
0.012
0.01
0.008
0.006

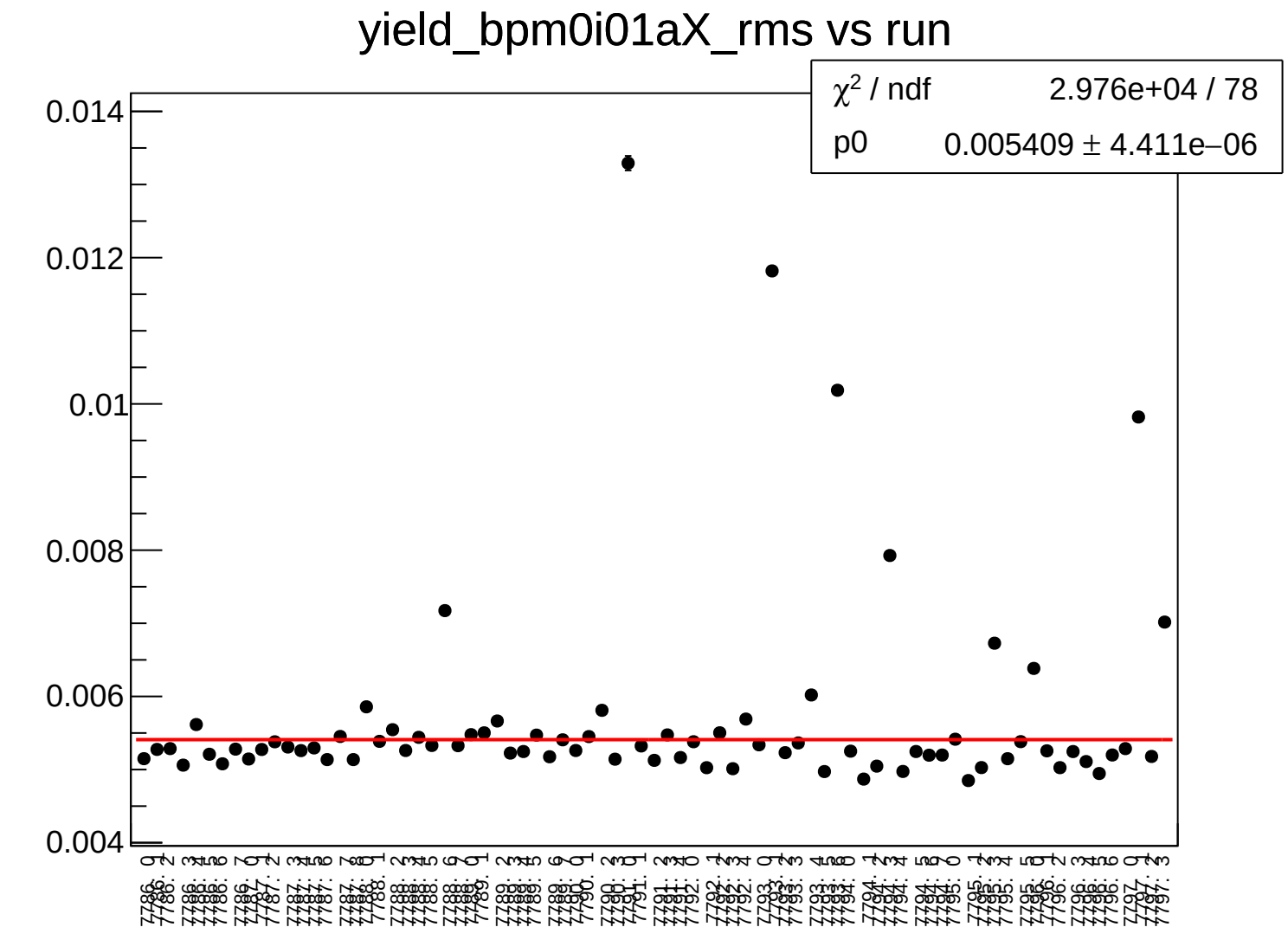

yield_bpm0i01Y_mean vs run
χ² / ndf 7.979e+05 / 78
p0 −1.062 ± 5.535e−06
−1.045
−1.05
−1.055
−1.06
−1.065
−1.07
−1.075
pull
Entries 79
Mean −7190
Std Dev 0
400
300
200
100
0
−100
−200

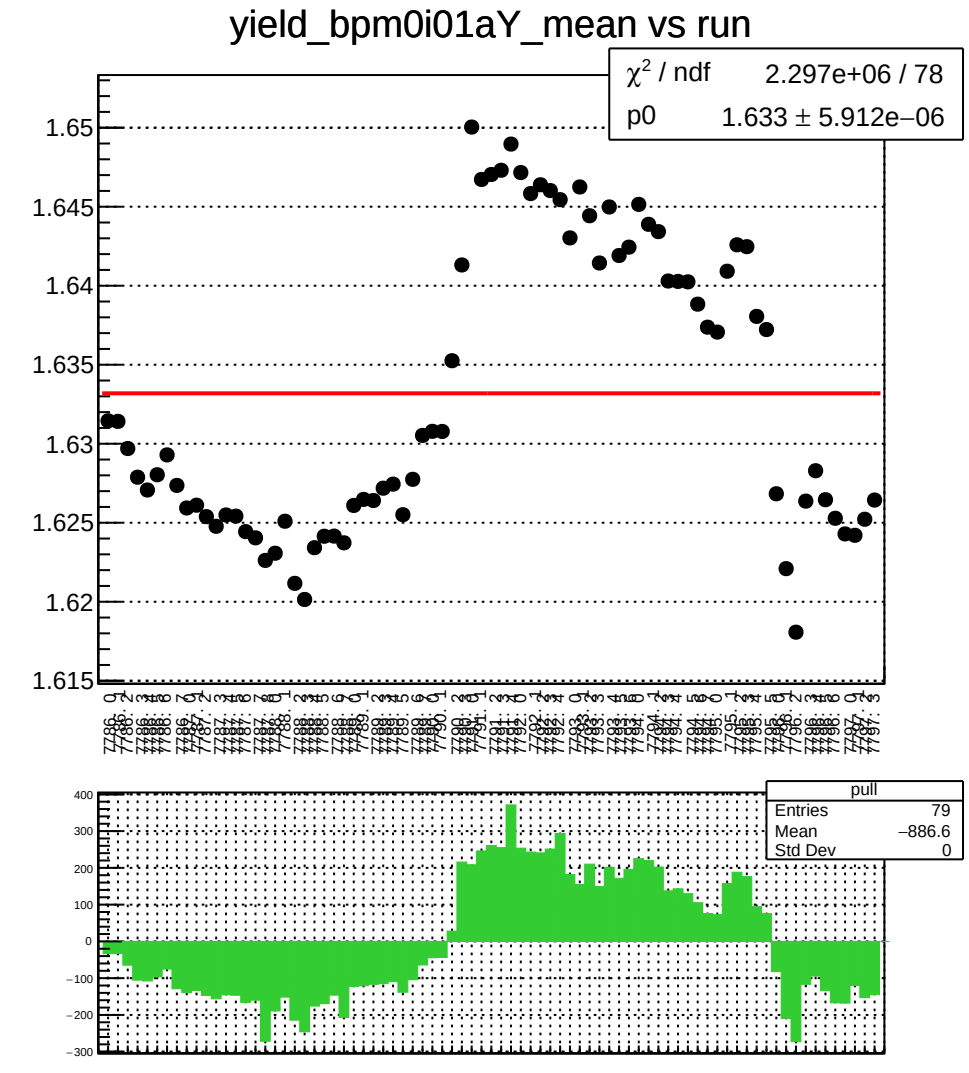

pull1D
Entries 79
Mean −1.912
Std Dev 4.628
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

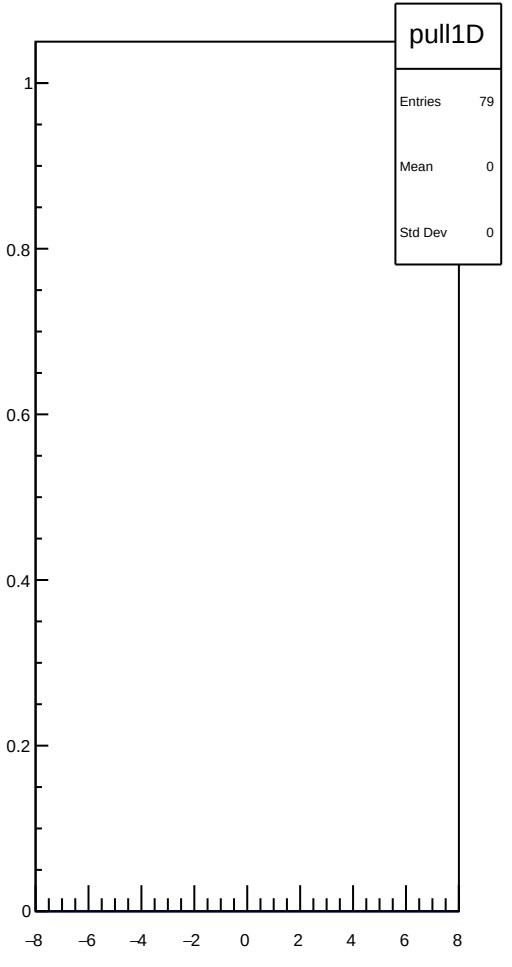

yield_bpm0i01Y_rms vs run
χ² / ndf 3.654e+04 / 78
p0 0.004789 ± 3.914e−06
0.014
0.012
0.01
0.008
0.006
0.004

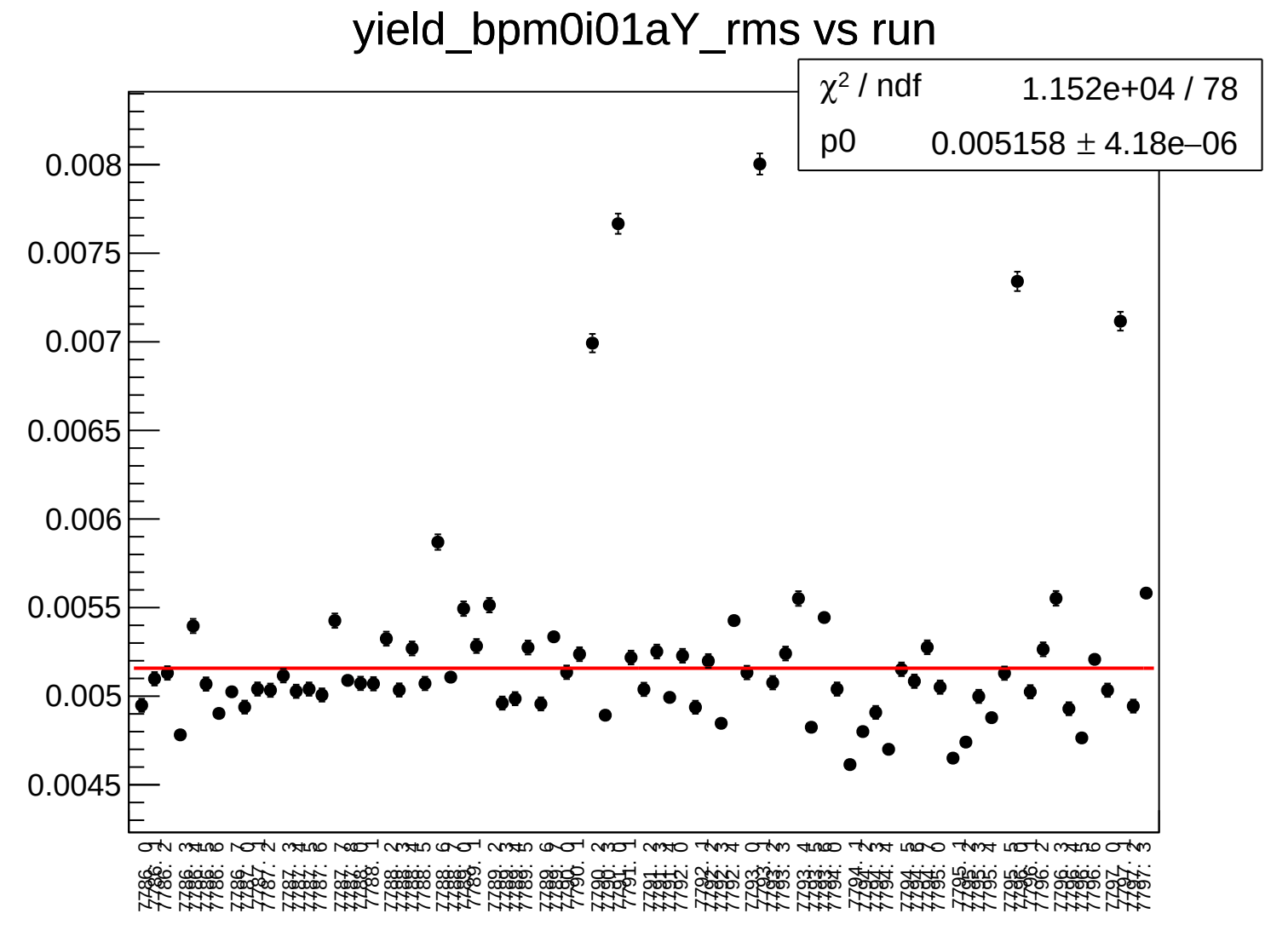

yield_bpm0i01aX_mean vs run
χ² / ndf 9.723e+05 / 78
p0 −1.673 ± 6.238e−06
−1.66
−1.665
−1.67
−1.675
−1.68
−1.685
pull
Entries 79
Mean −545.5
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

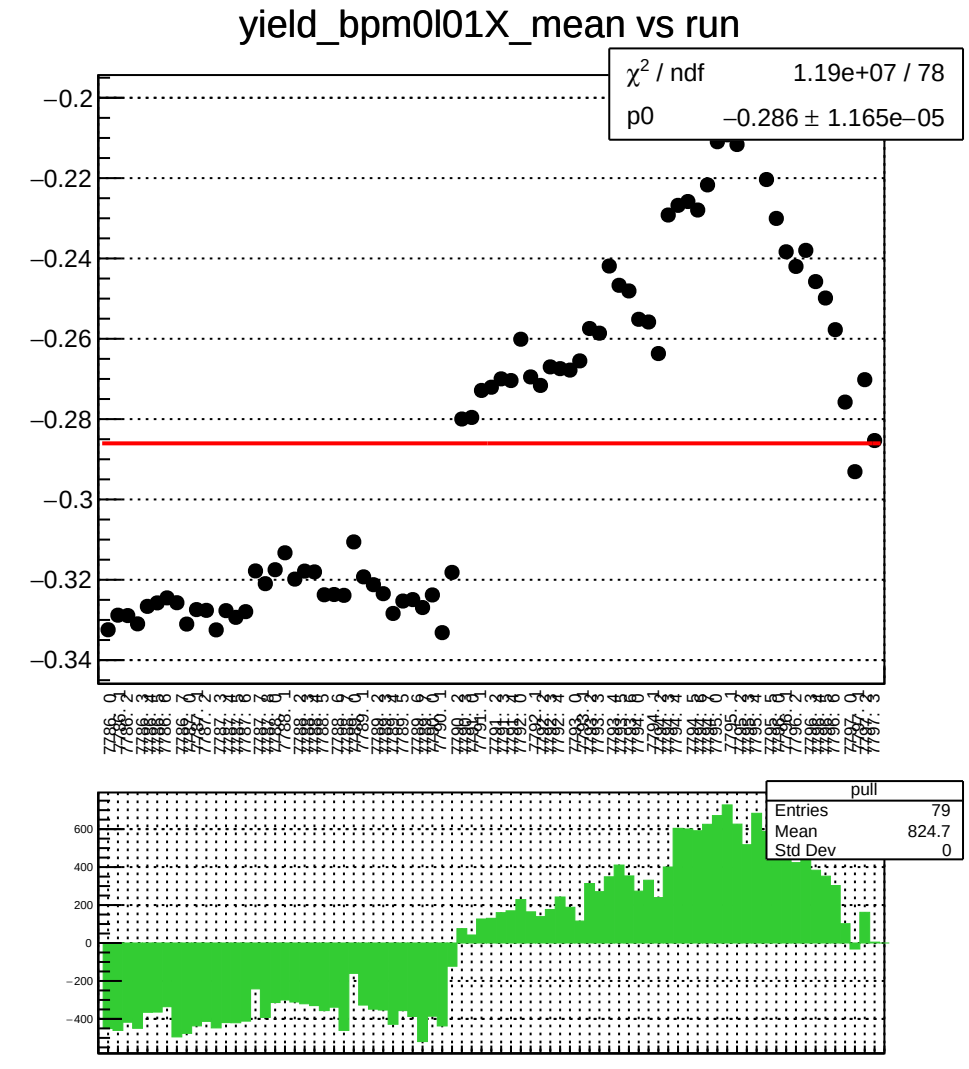

pull1D
Entries 79
Mean −1.405
Std Dev 4.164
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

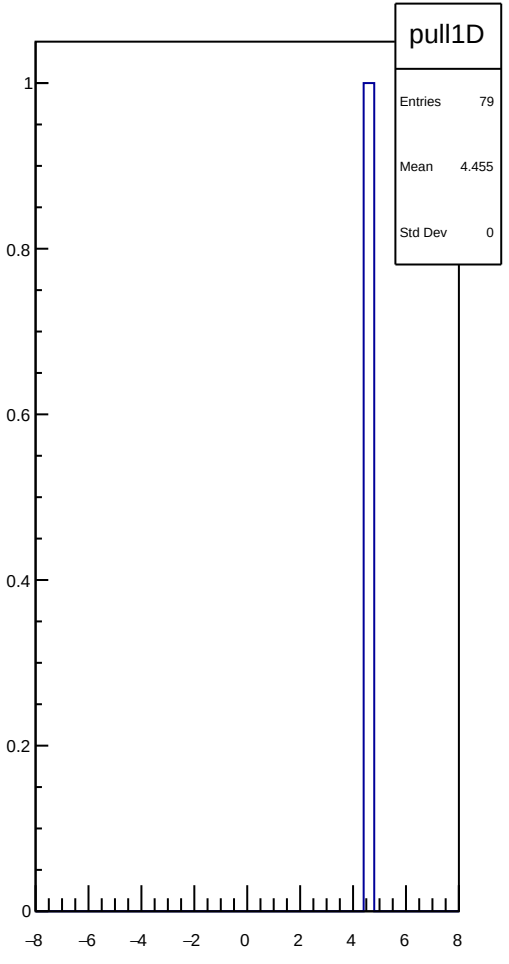

yield_bpm0i01aX_rms vs run
χ² / ndf 2.976e+04 / 78
p0 0.005409 ± 4.411e−06
0.014
0.012
0.01
0.008
0.006
0.004

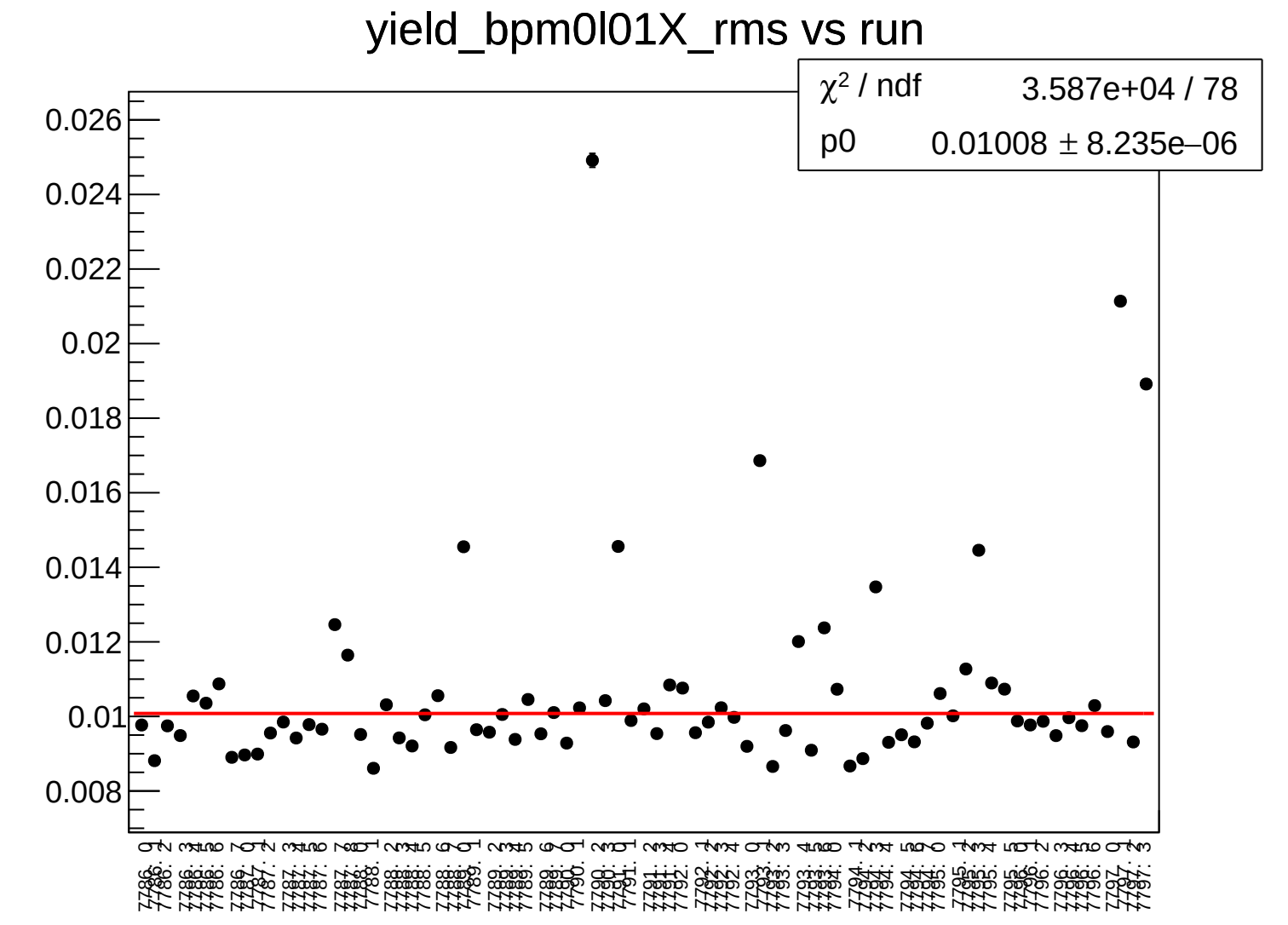

yield_bpm0i01aY_mean vs run
χ² / ndf 2.297e+06 / 78
p0 1.633 ± 5.912e−06
1.65
1.645
1.64
1.635
1.63
1.625
1.62
1.615
pull
Entries 79
Mean −886.6
Std Dev 0
400
300
200
100
0
−100
−200
−300

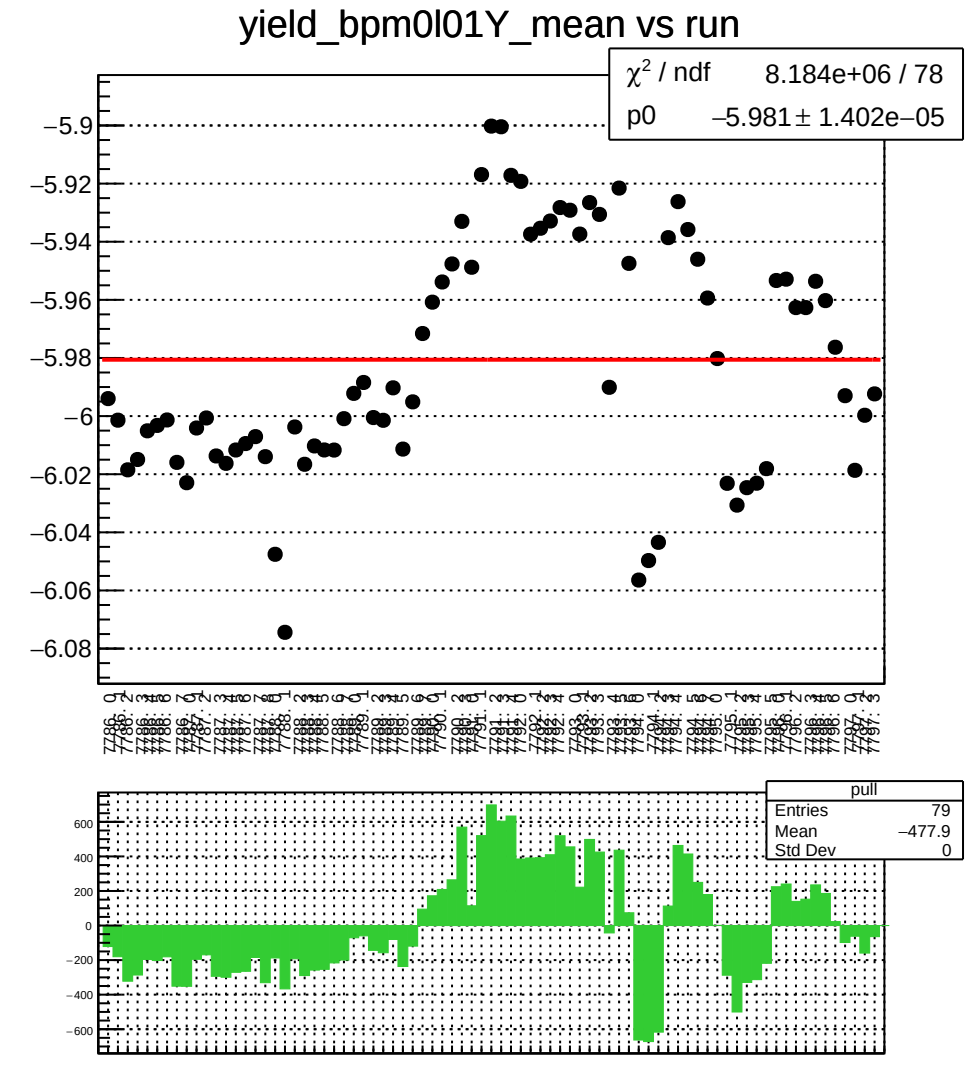

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

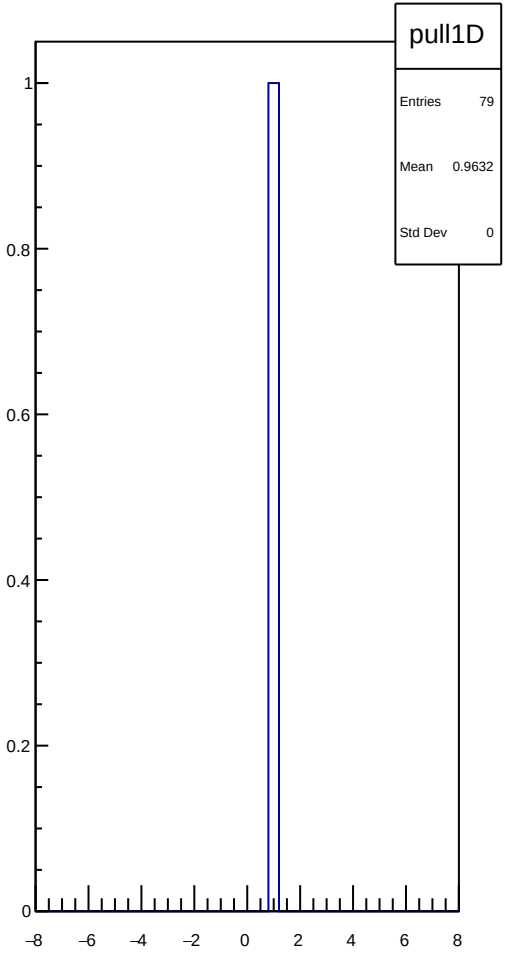

yield_bpm0i01aY_rms vs run
χ² / ndf 1.152e+04 / 78
p0 0.005158 ± 4.18e–06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

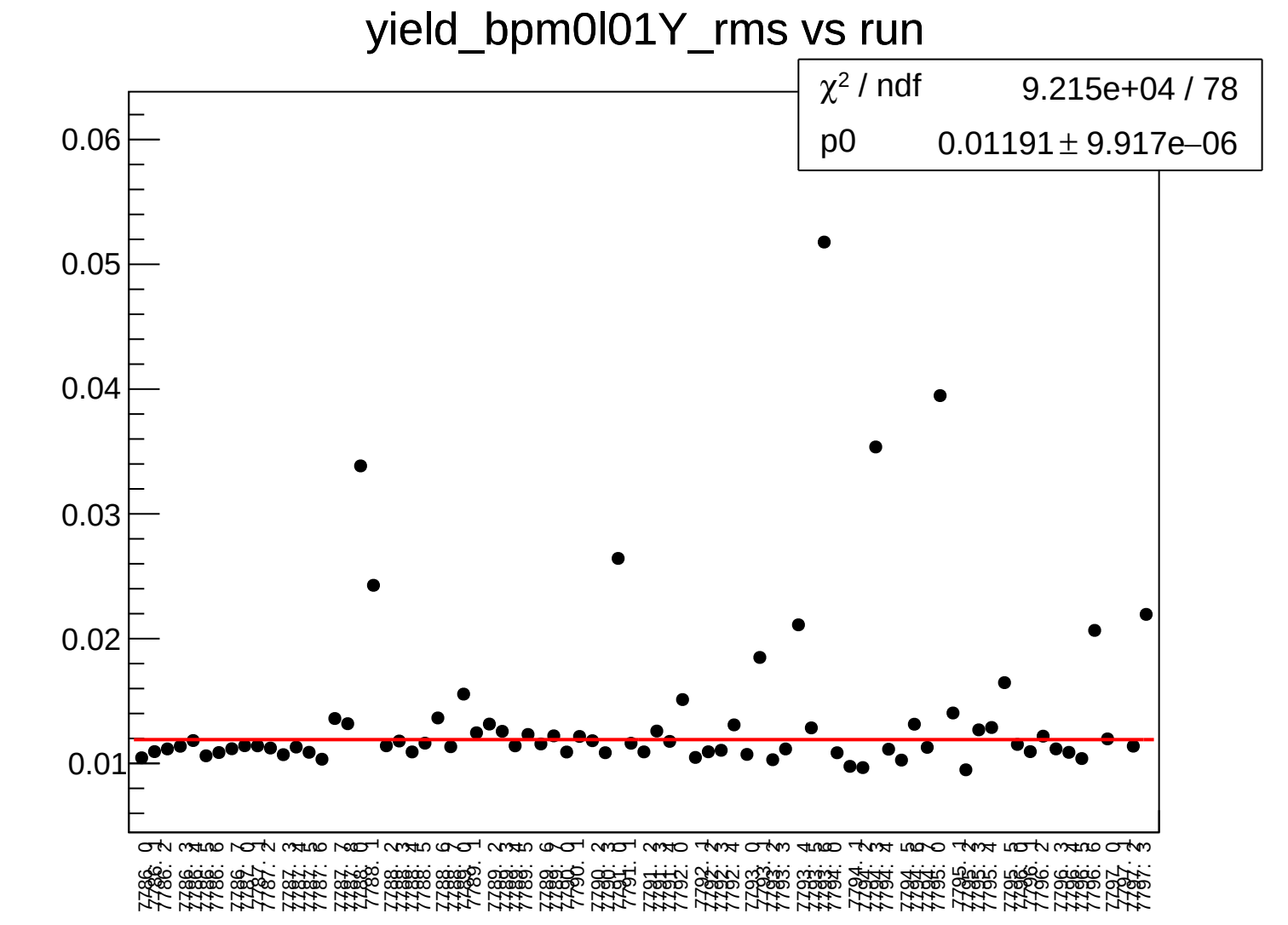

yield_bpm0l01X_mean vs run
χ² / ndf 1.19e+07 / 78
p0 −0.286 ± 1.165e−05
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
pull
Entries 79
Mean 824.7
Std Dev 0
600
400
200
0
−200
−400

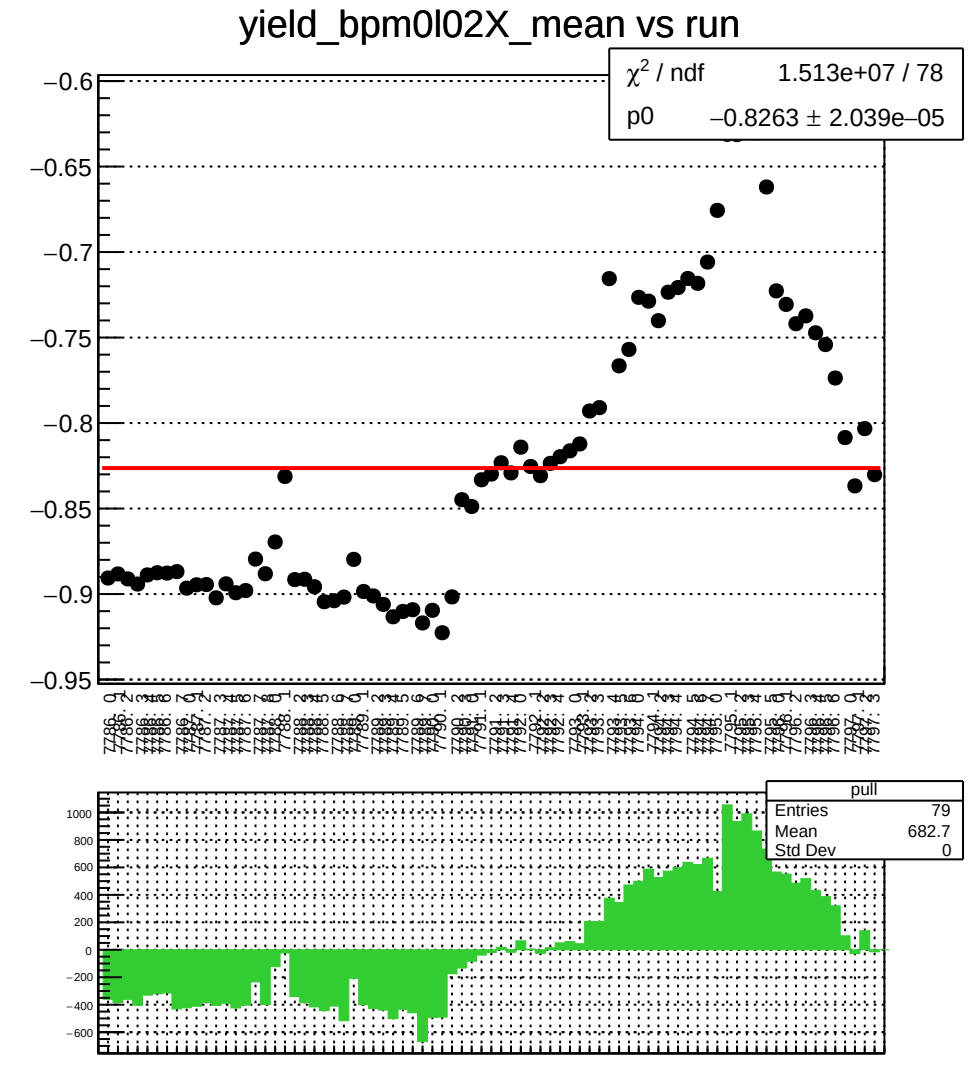

pull1D
Entries 79
Mean 4.455
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

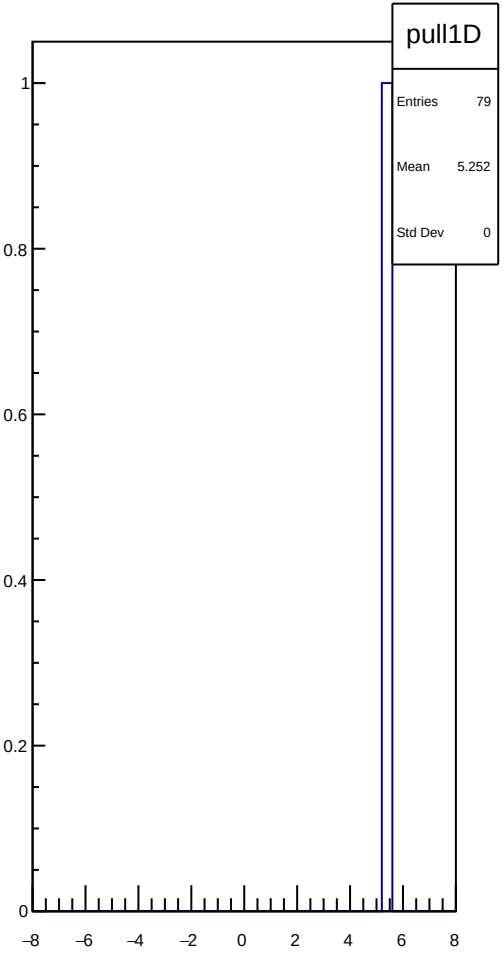

yield_bpm0l01X_rms vs run
χ² / ndf 3.587e+04 / 78
p0 0.01008 ± 8.235e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

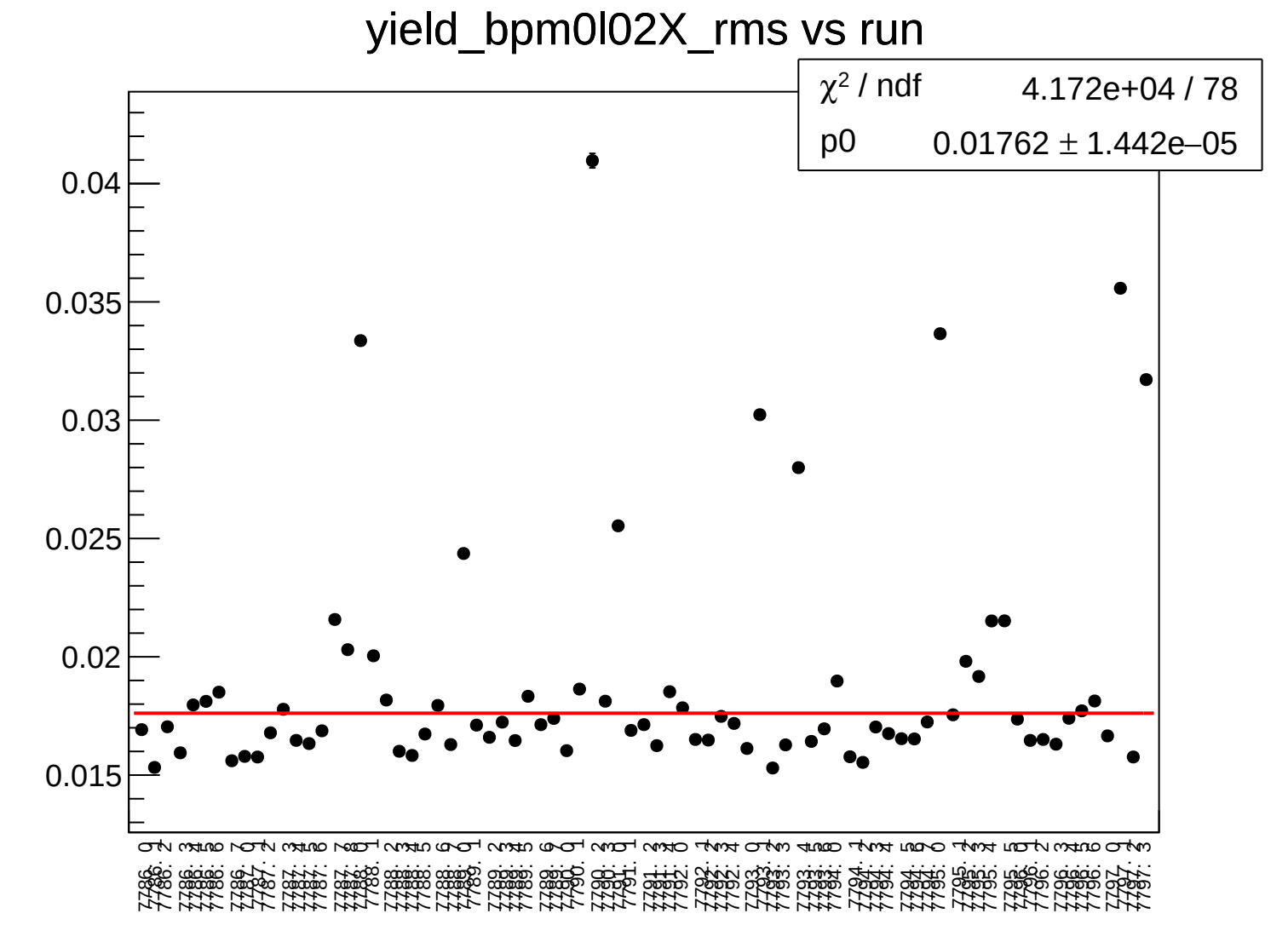

yield_bpm0l01Y_mean vs run
χ² / ndf 8.184e+06 / 78
p0 −5.981 ± 1.402e−05
−5.9
−5.92
−5.94
−5.96
−5.98
−6
−6.02
−6.04
−6.06
−6.08
pull
Entries 79
Mean −477.9
Std Dev 0
600
400
200
0
−200
−400
−600

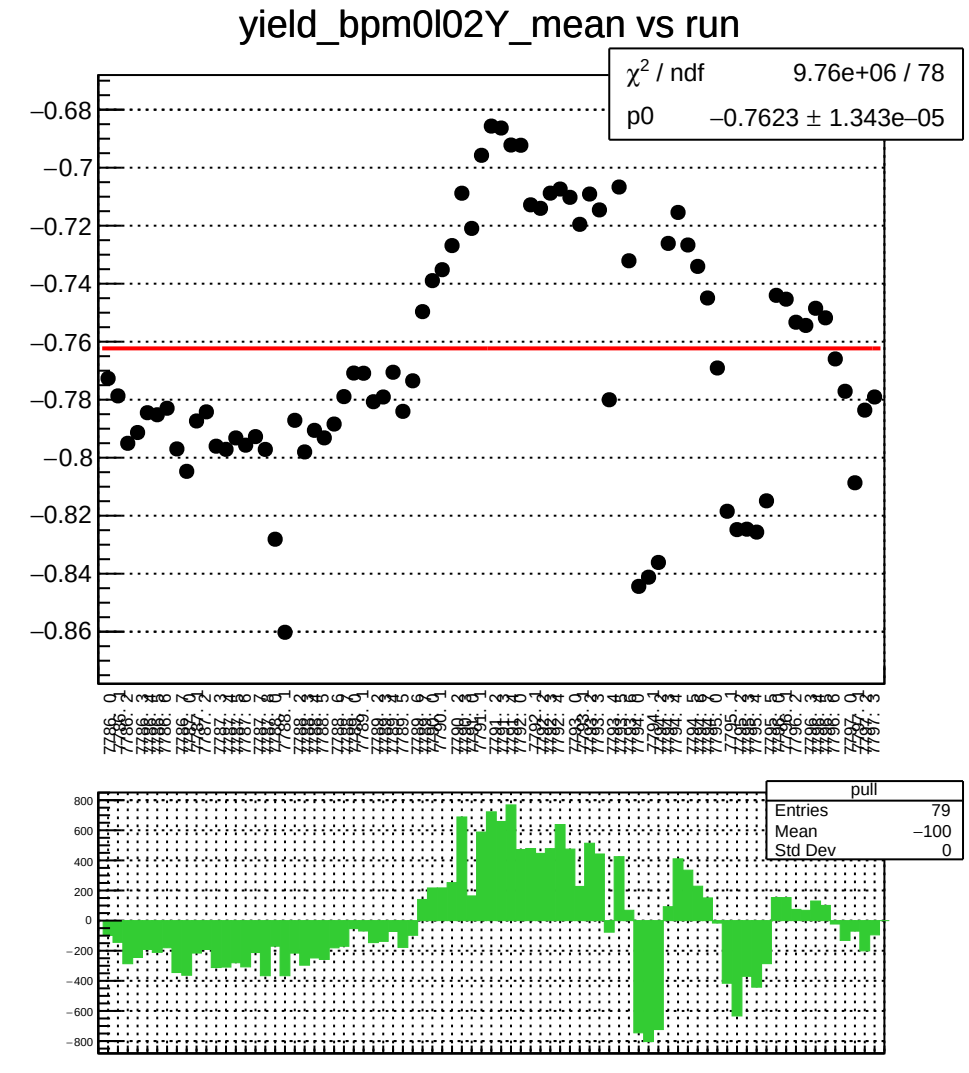

pull1D
Entries 79
Mean 0.9632
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

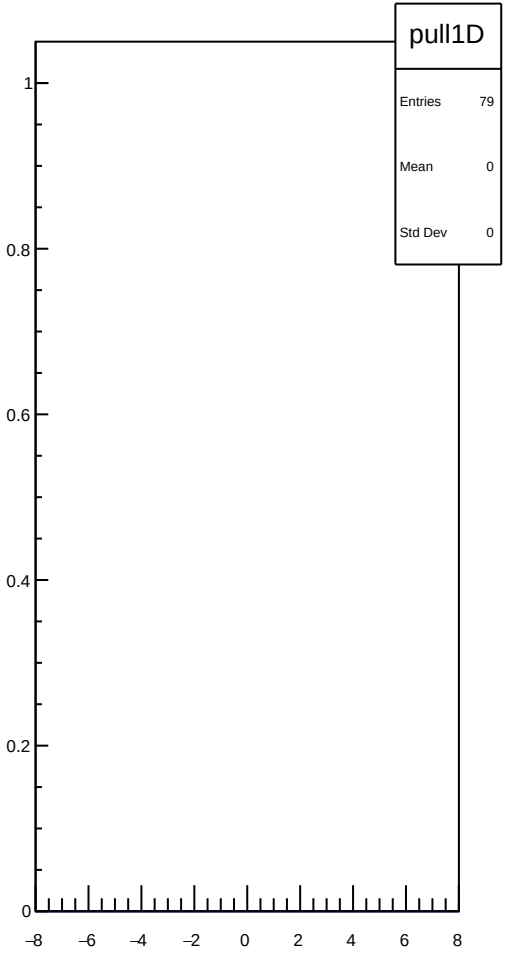

yield_bpm0l01Y_rms vs run
χ² / ndf 9.215e+04 / 78
p0 0.01191 ± 9.917e–06
0.06
0.05
0.04
0.03
0.02
0.01

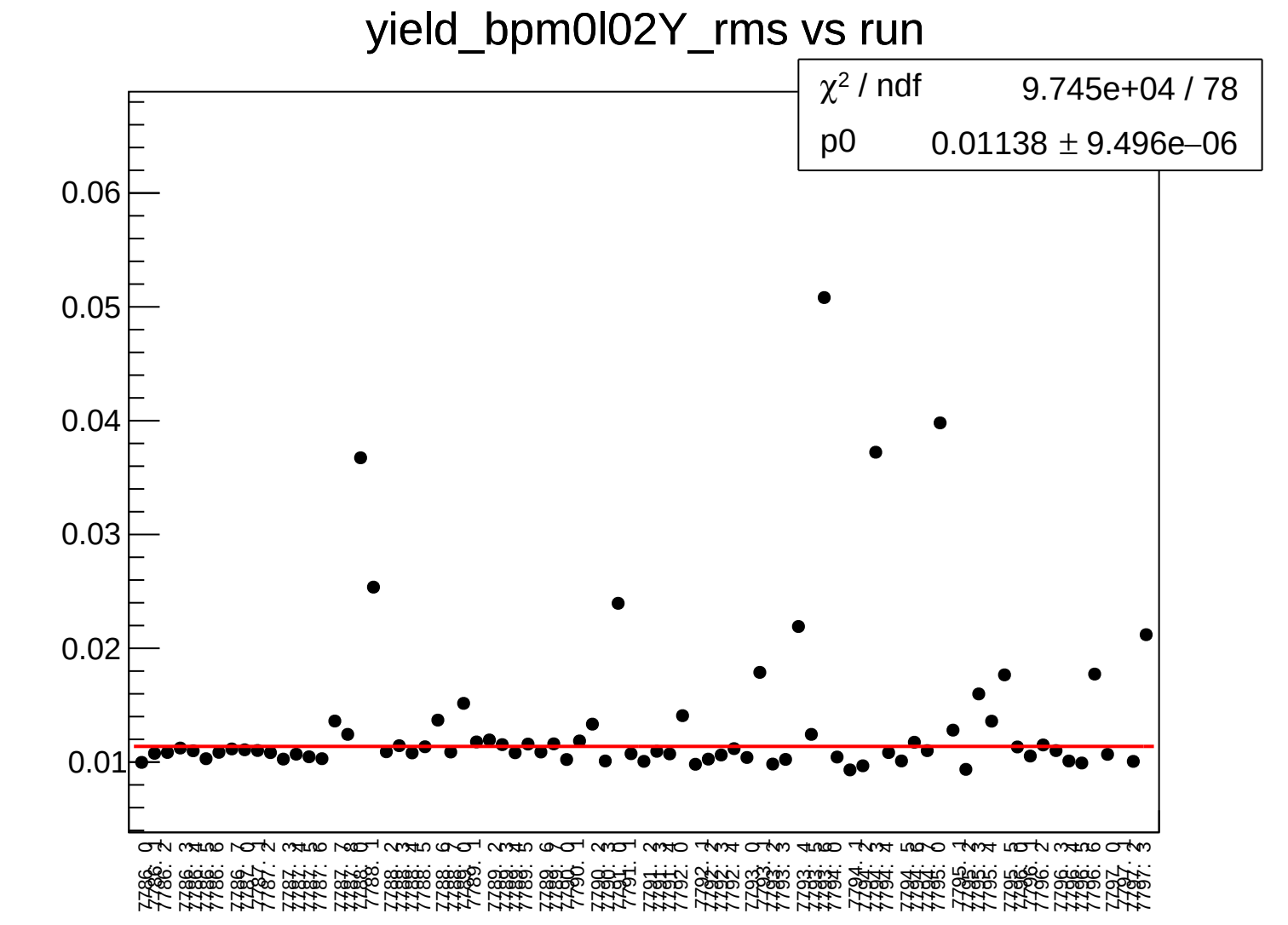

yield_bpm0l02X_mean vs run
χ² / ndf 1.513e+07 / 78
p0 −0.8263 ± 2.039e−05
pull
Entries 79
Mean 682.7
Std Dev 0

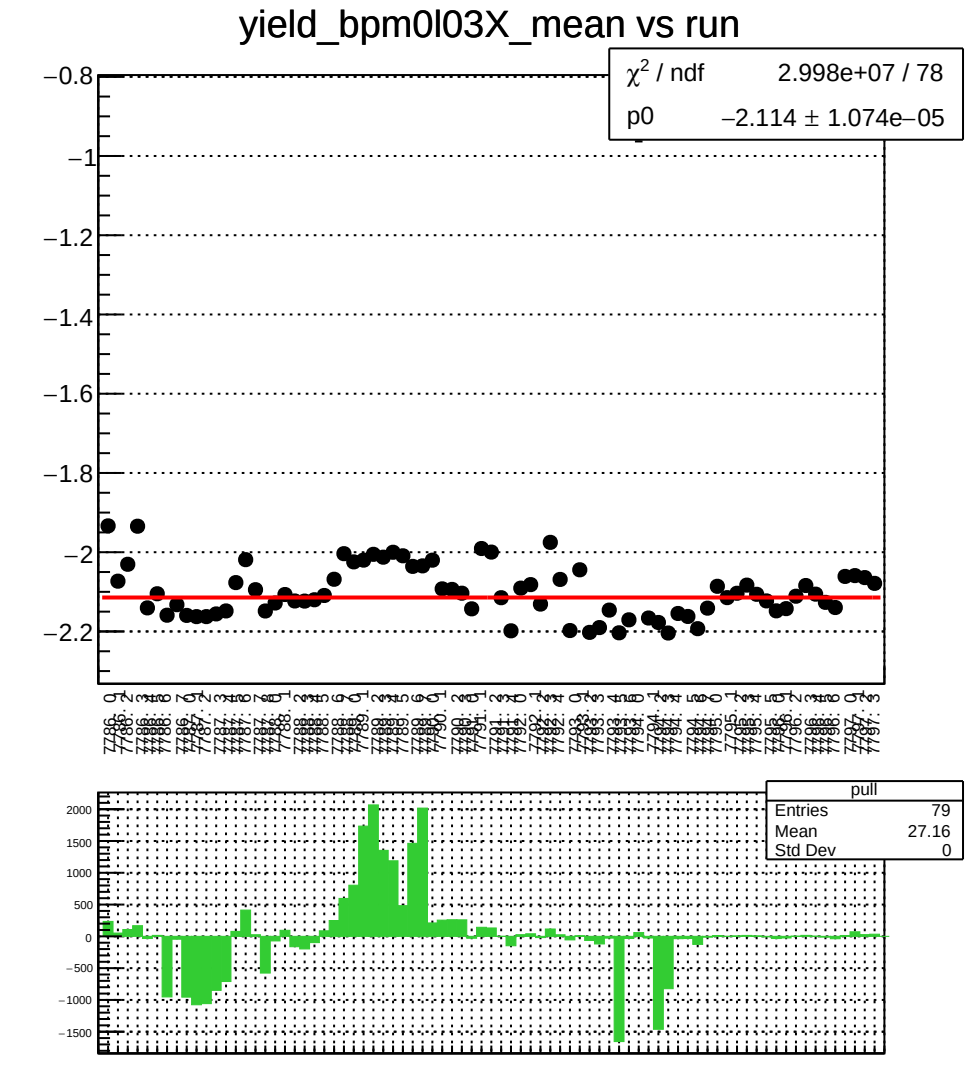

pull1D
Entries 79
Mean 5.252
Std Dev 0

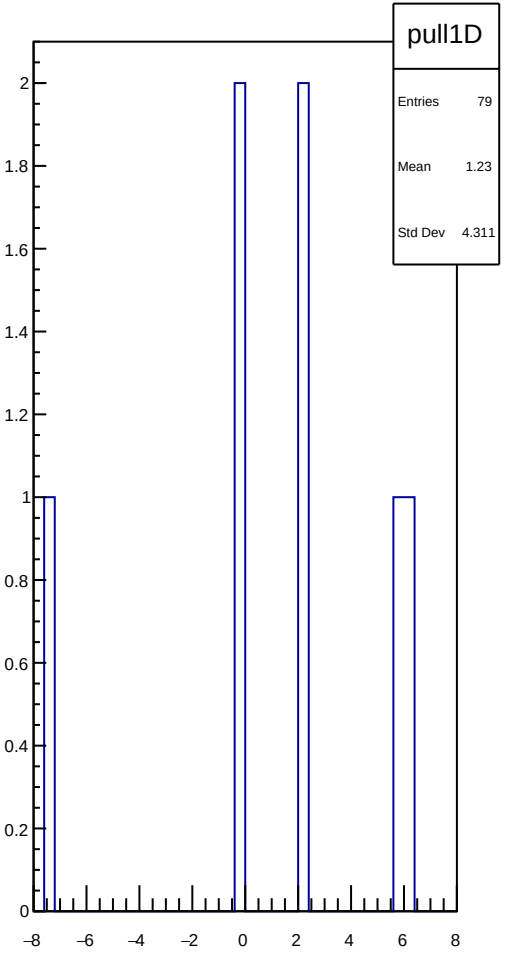

yield_bpm0l02X_rms vs run
χ^2 / ndf 4.172e+04 / 78
p0 0.01762 ± 1.442e−05
0.04
0.035
0.03
0.025
0.02
0.015


yield_bpm0l02Y_mean vs run
χ² / ndf 9.76e+06 / 78
p0 −0.7623 ± 1.343e−05
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
pull
Entries 79
Mean −100
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

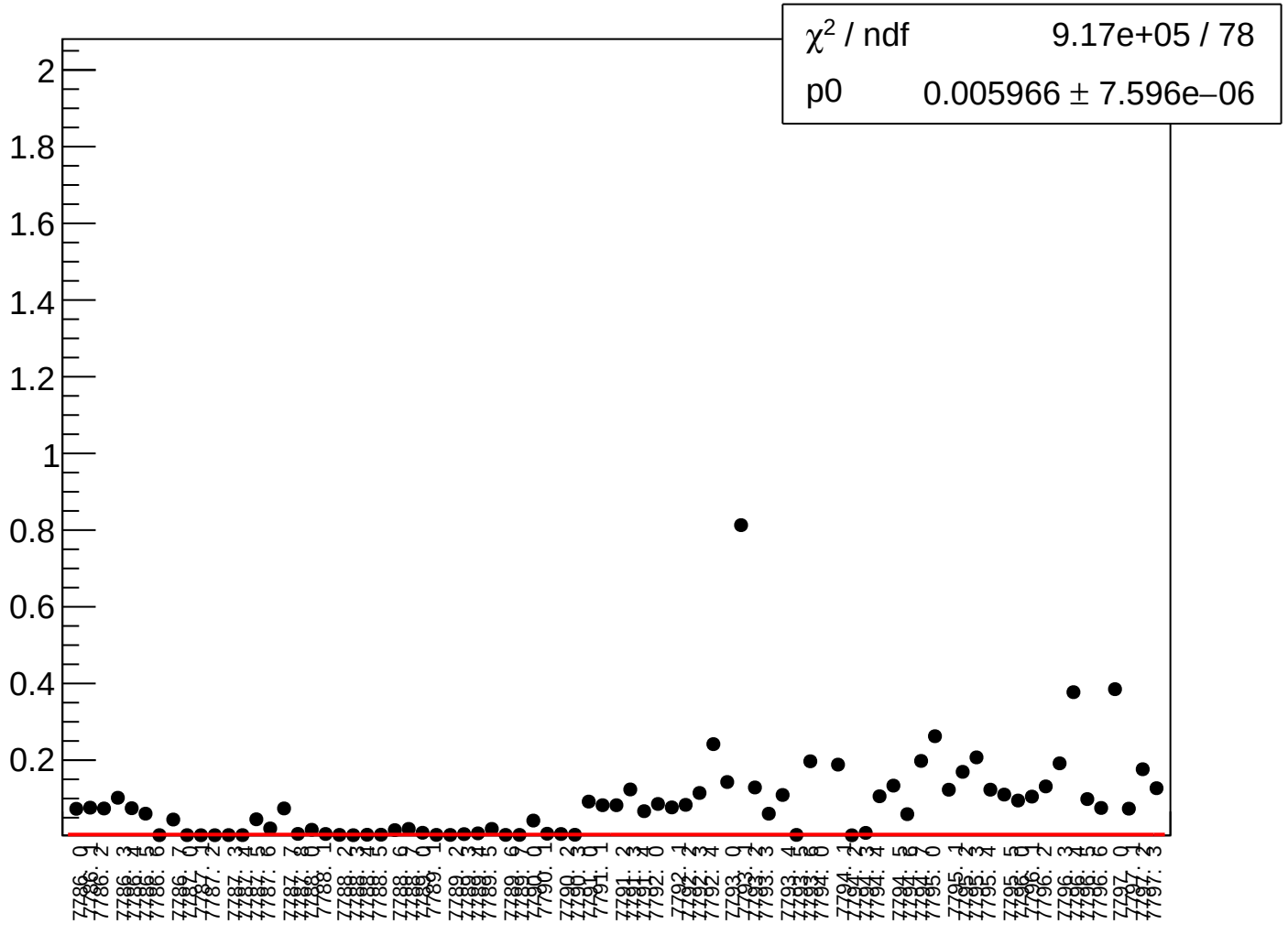

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

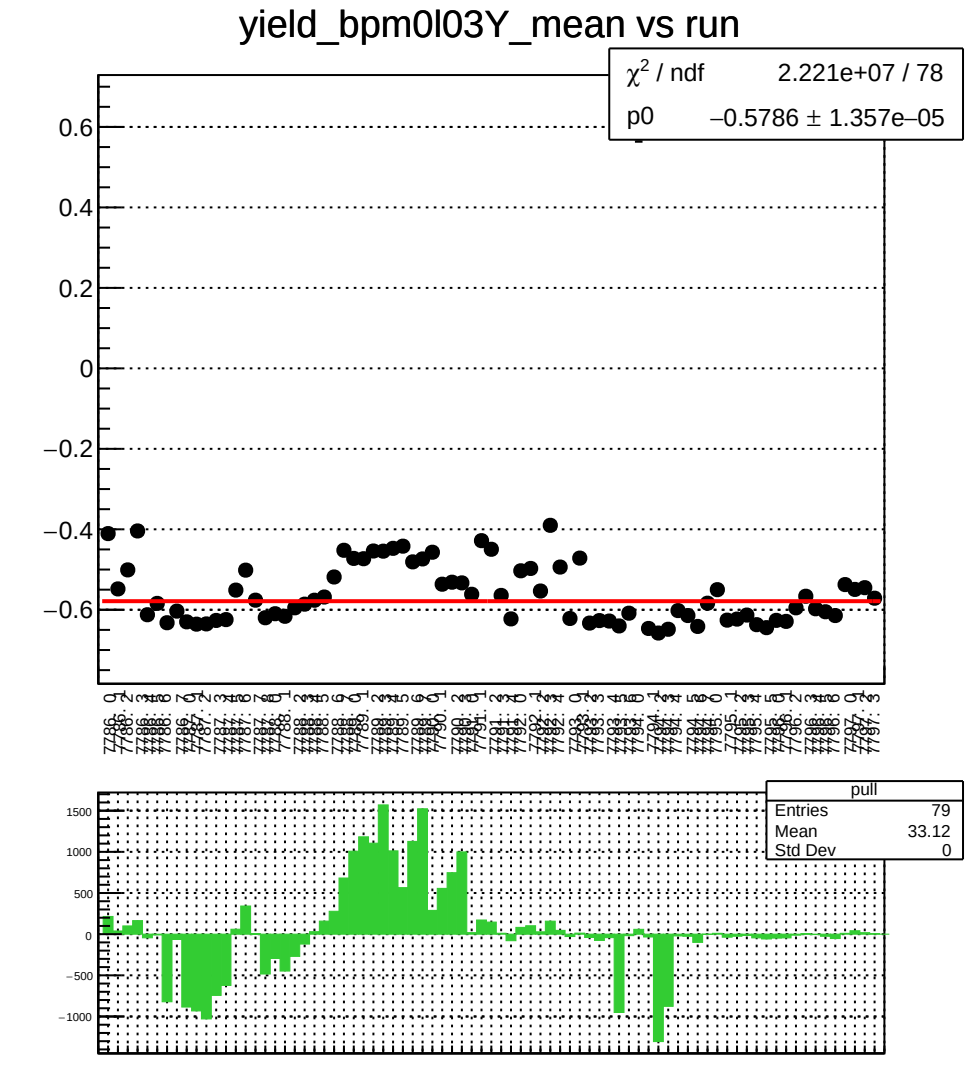

yield_bpm0l02Y_rms vs run
χ² / ndf 9.745e+04 / 78
p0 0.01138 ± 9.496e–06
0.06
0.05
0.04
0.03
0.02
0.01

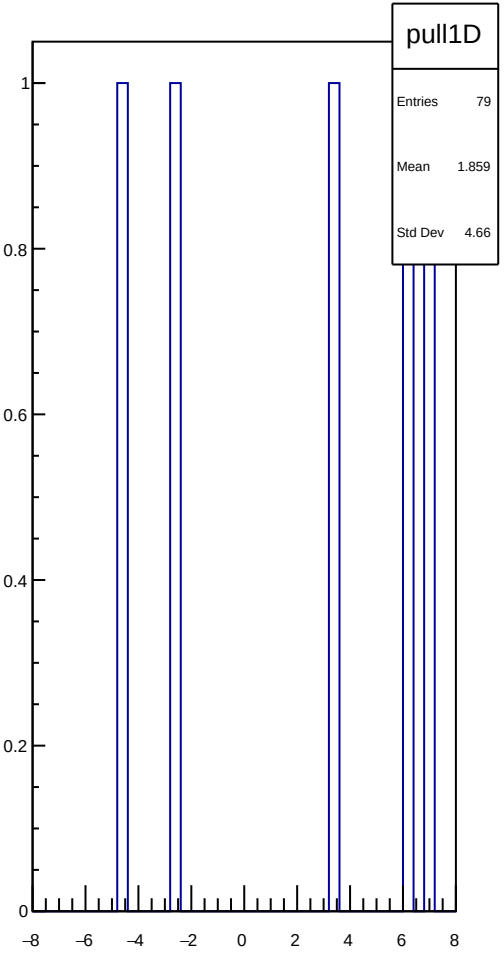

yield_bpm0l03X_mean vs run
χ² / ndf 2.998e+07 / 78
p0 −2.114 ± 1.074e−05
pull
Entries 79
Mean 27.16
Std Dev 0

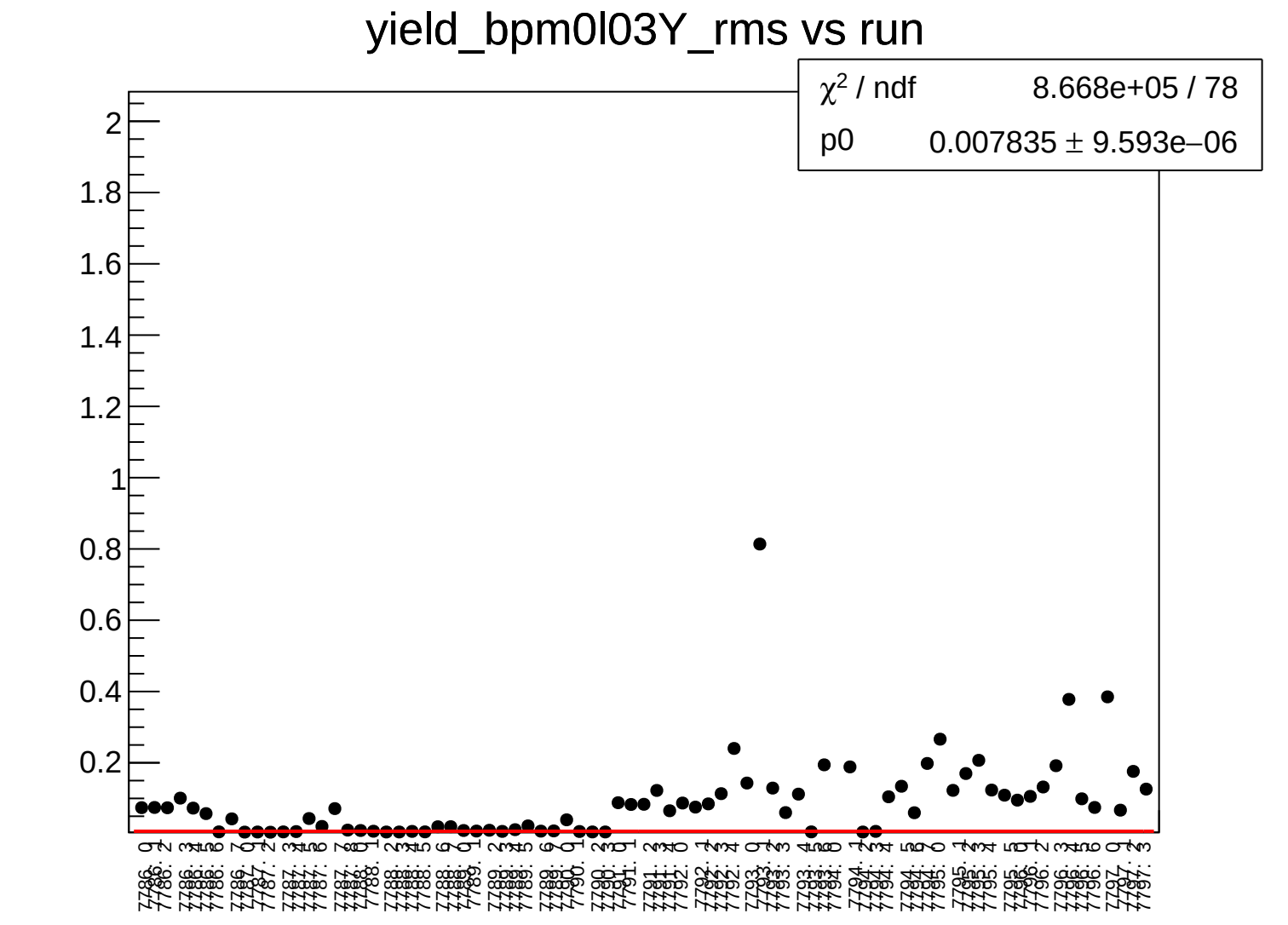

pull1D
Entries 79
Mean 1.23
Std Dev 4.311

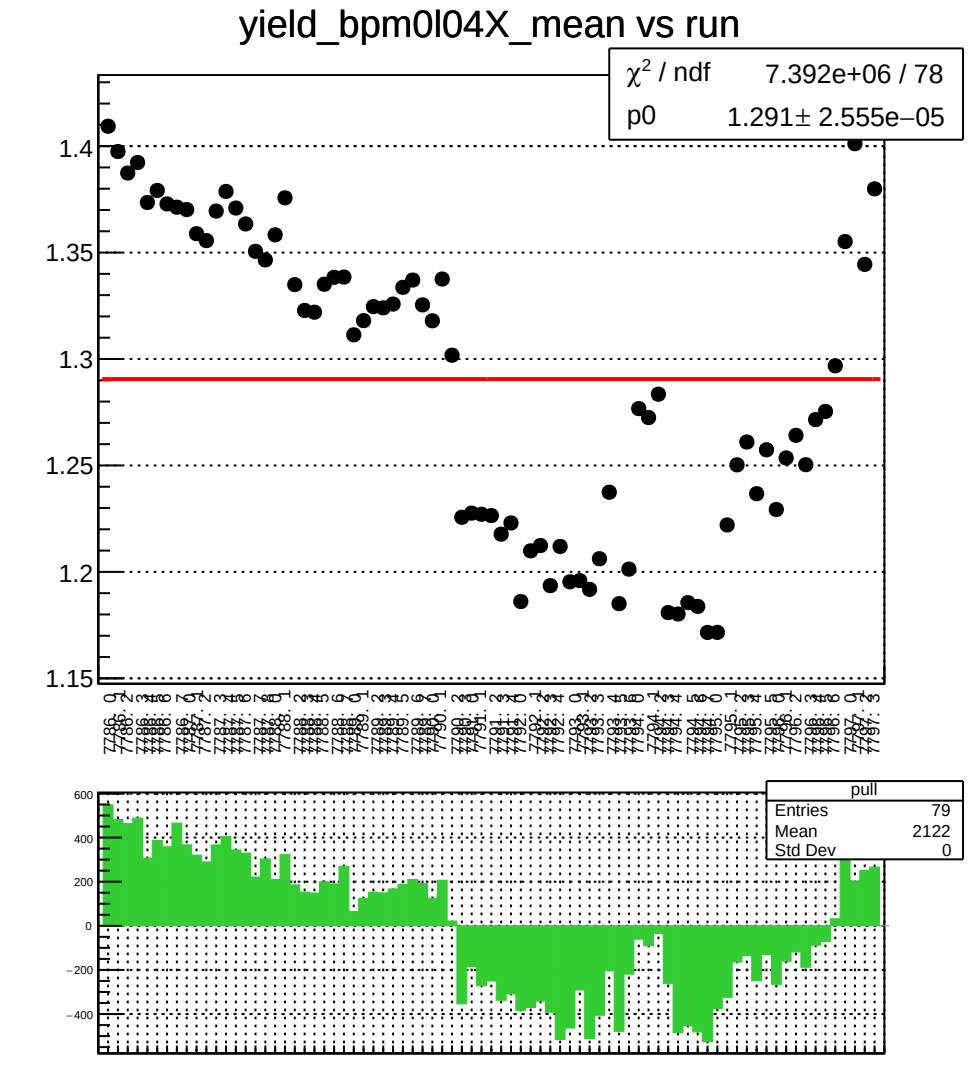
yield_bpm0l03X_rms vs run

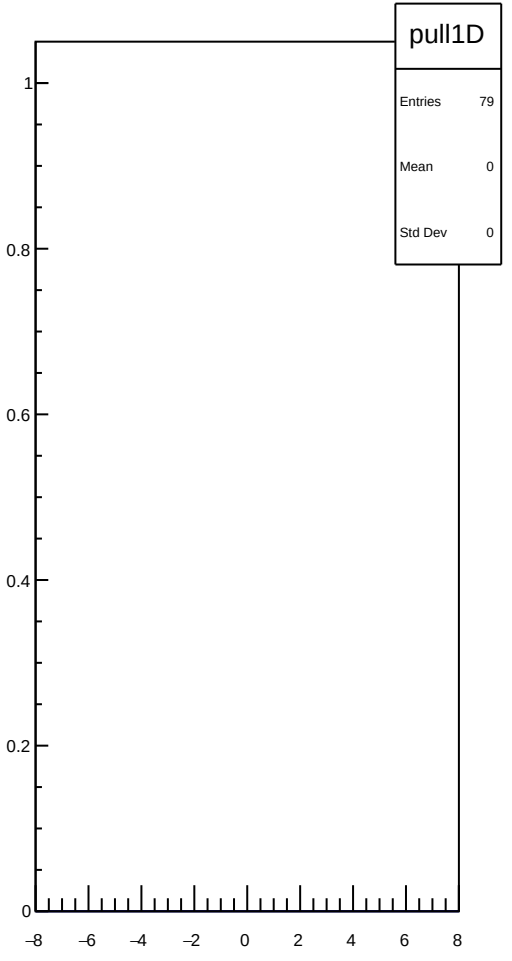


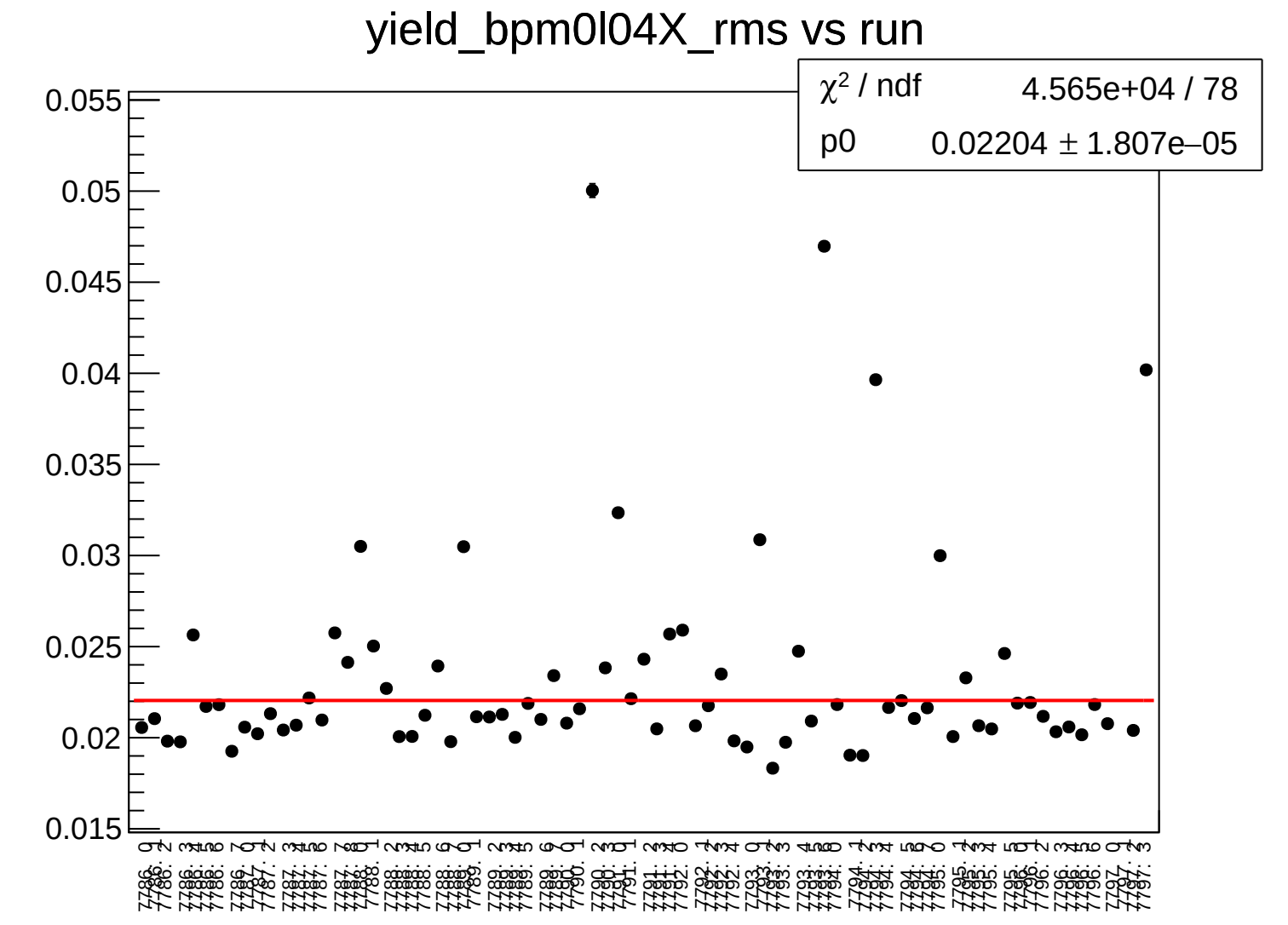

yield_bpm0l03Y_mean vs run
χ² / ndf 2.221e+07 / 78
p0 −0.5786 ± 1.357e−05
pull
Entries 79
Mean 33.12
Std Dev 0

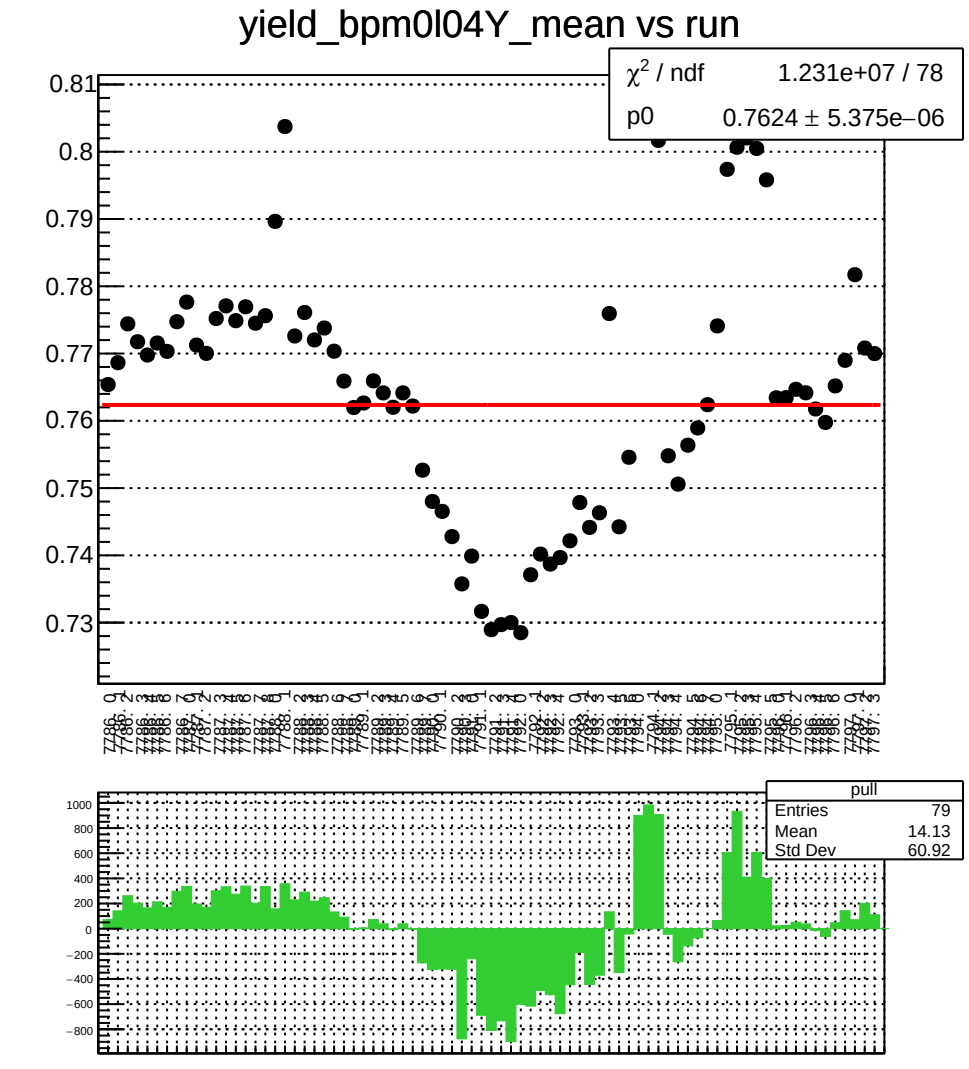

pull1D
Entries 79
Mean 1.859
Std Dev 4.66

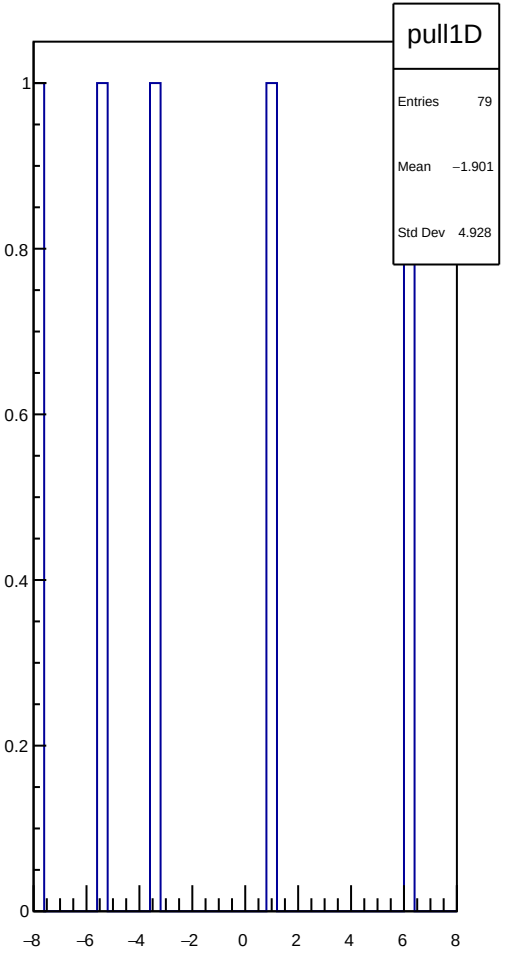

yield_bpm0l03Y_rms vs run
χ² / ndf 8.668e+05 / 78
p0 0.007835 ± 9.593e−06
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

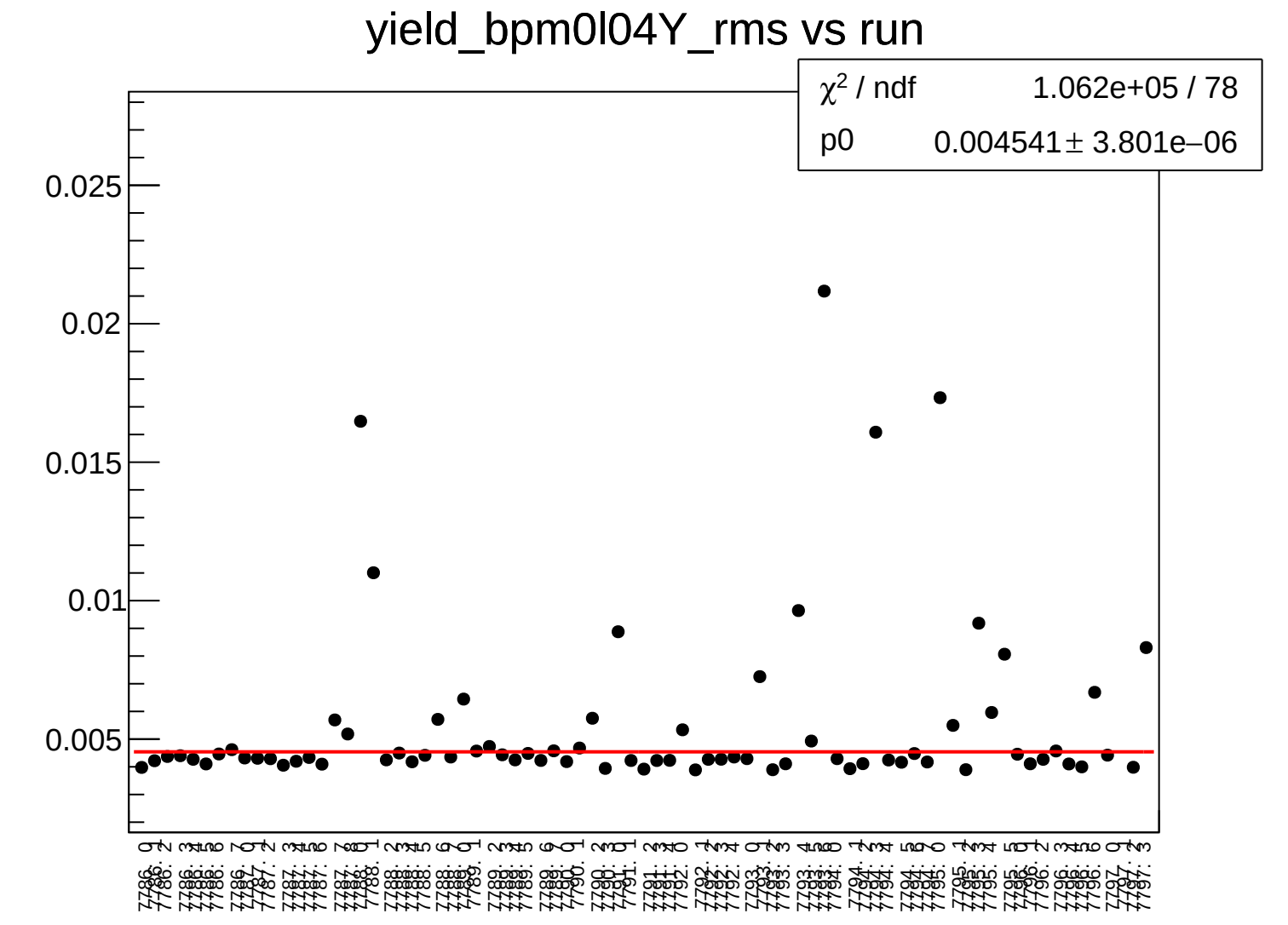

yield_bpm0l04X_mean vs run
χ² / ndf 7.392e+06 / 78
p0 1.291± 2.555e−05
1.4
1.35
1.3
1.25
1.2
1.15
pull
Entries 79
Mean 2122
Std Dev 0
600
400
200
0
−200
−400

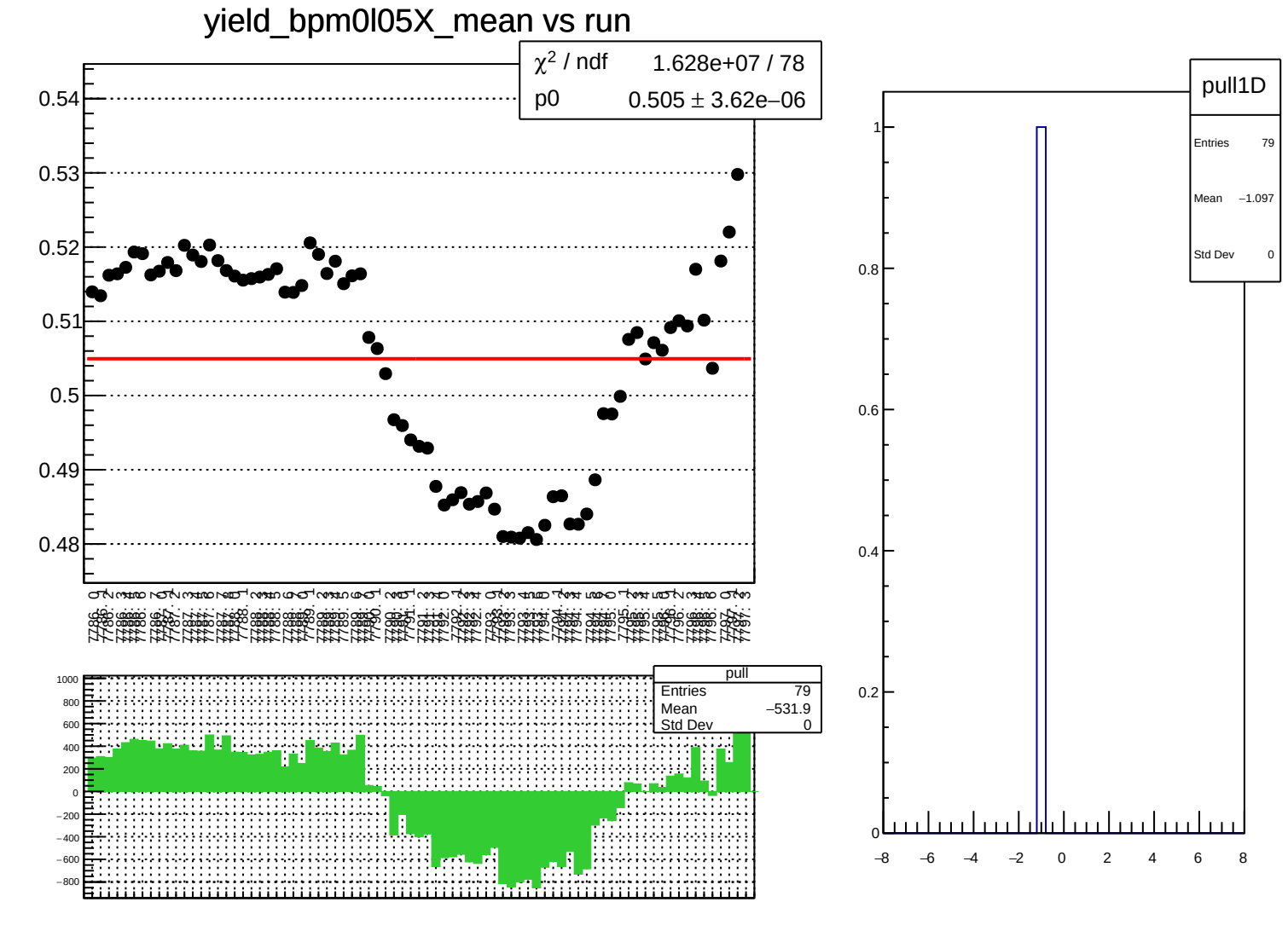

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

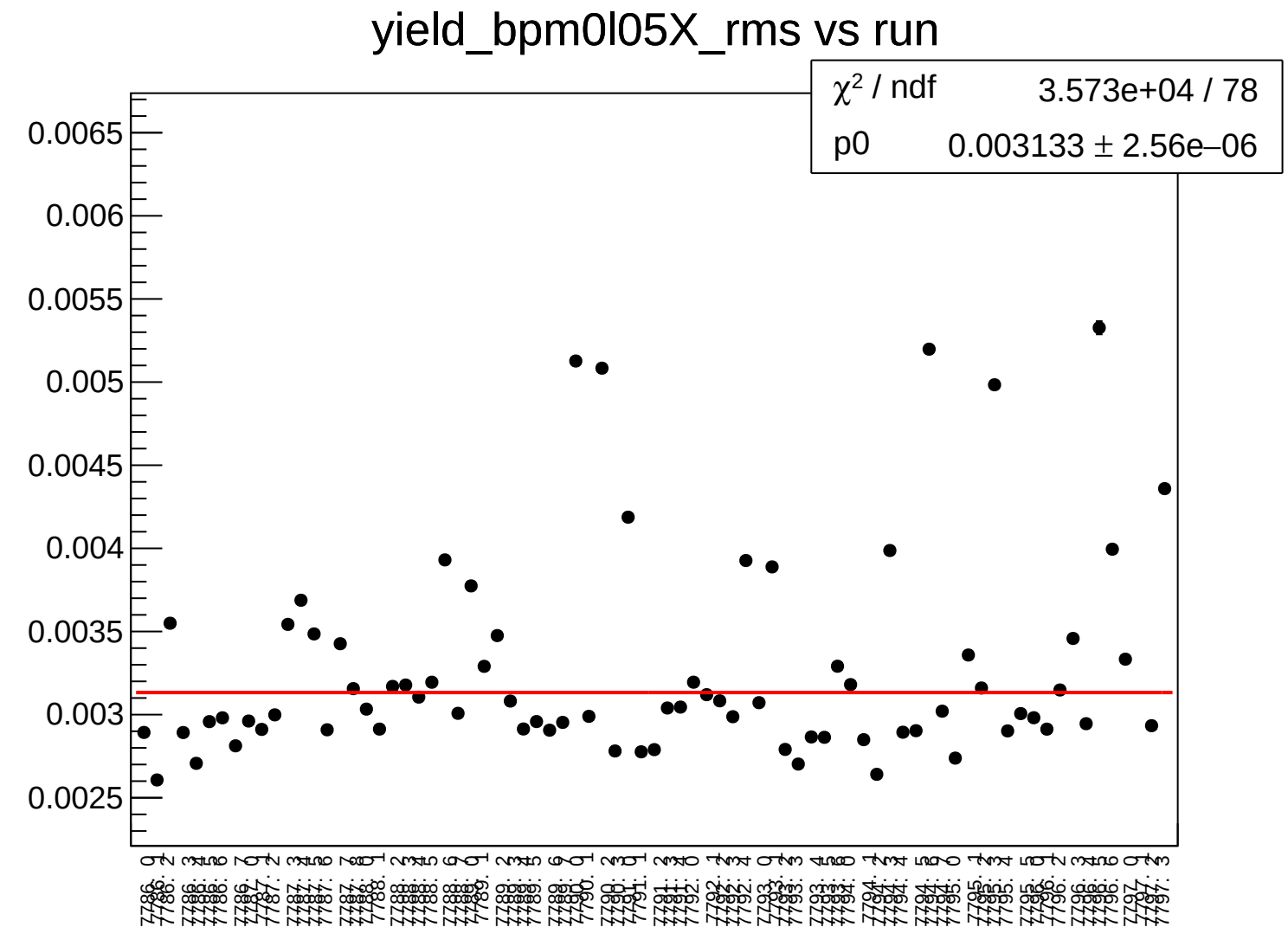

yield_bpm0l04X_rms vs run
χ² / ndf 4.565e+04 / 78
p0 0.02204 ± 1.807e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

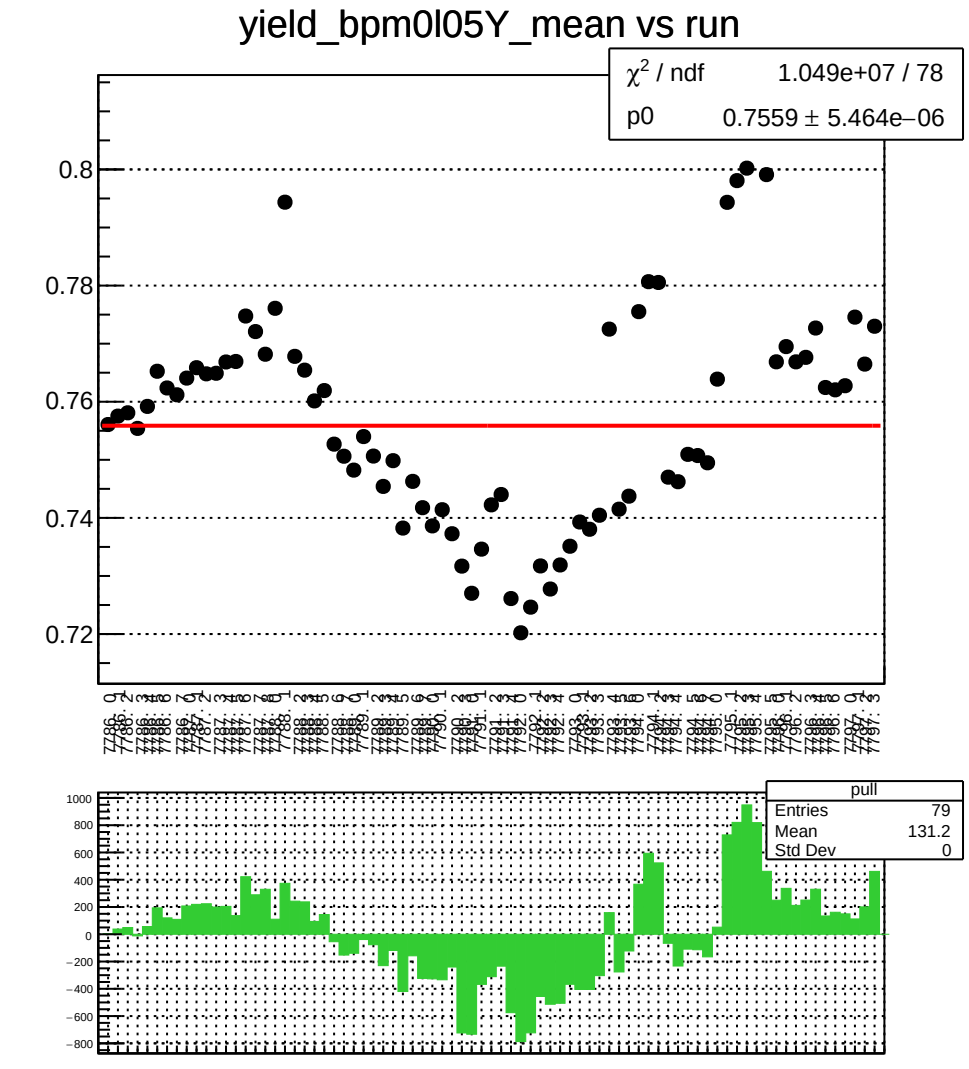

yield_bpm0l04Y_mean vs run
χ² / ndf 1.231e+07 / 78
p0 0.7624 ± 5.375e−06
0.81
0.8
0.79
0.78
0.77
0.76
0.75
0.74
0.73
pull
Entries 79
Mean 14.13
Std Dev 60.92
1000
800
600
400
200
0
−200
−400
−600
−800

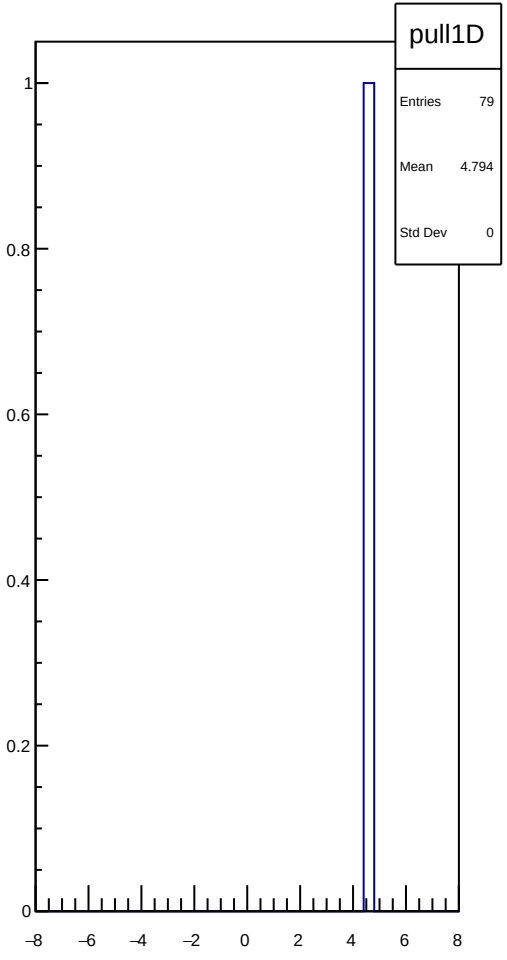

pull1D
Entries 79
Mean −1.901
Std Dev 4.928
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

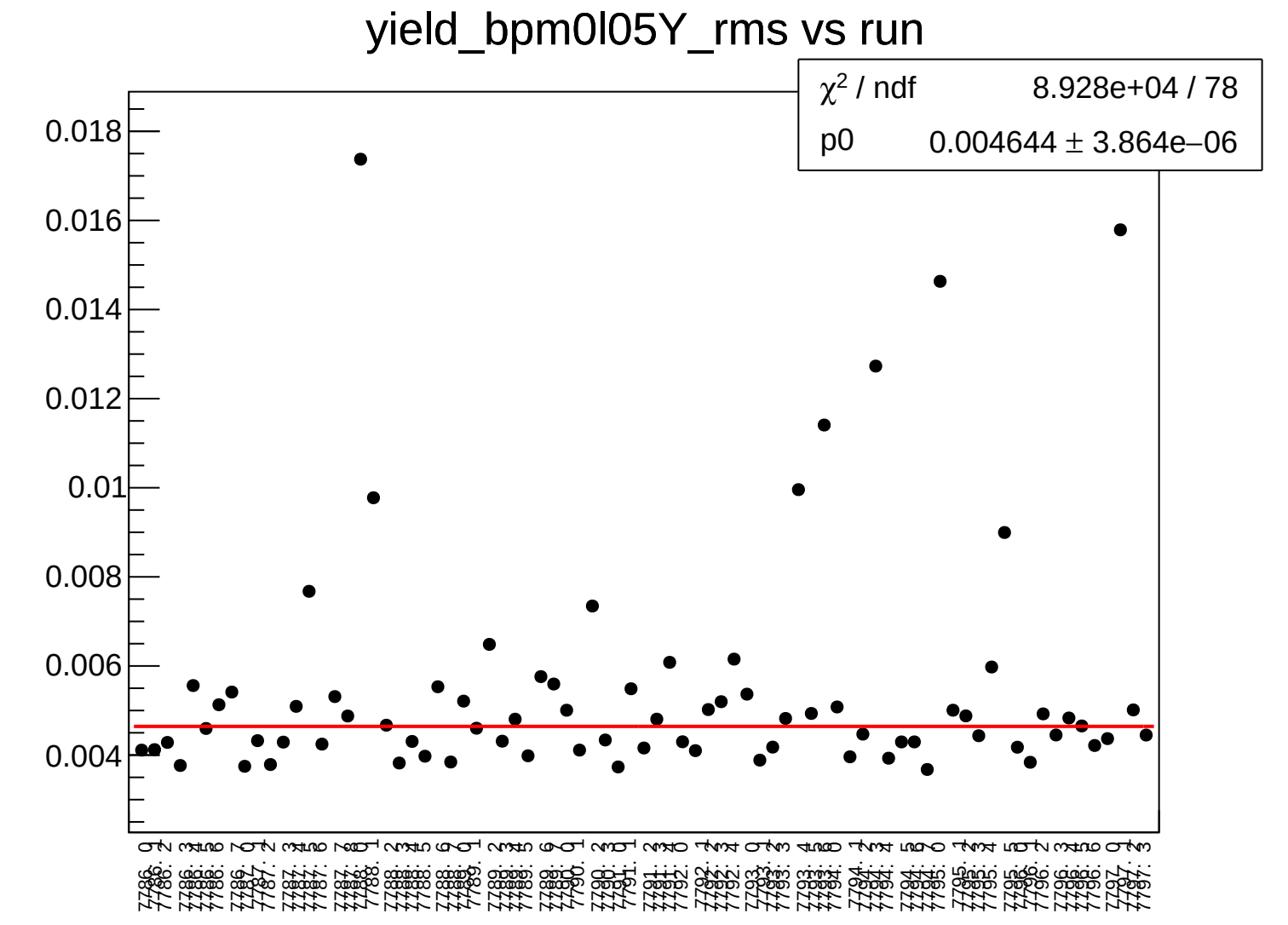

yield_bpm0l04Y_rms vs run
χ² / ndf 1.062e+05 / 78
p0 0.004541 ± 3.801e−06
0.025
0.02
0.015
0.01
0.005

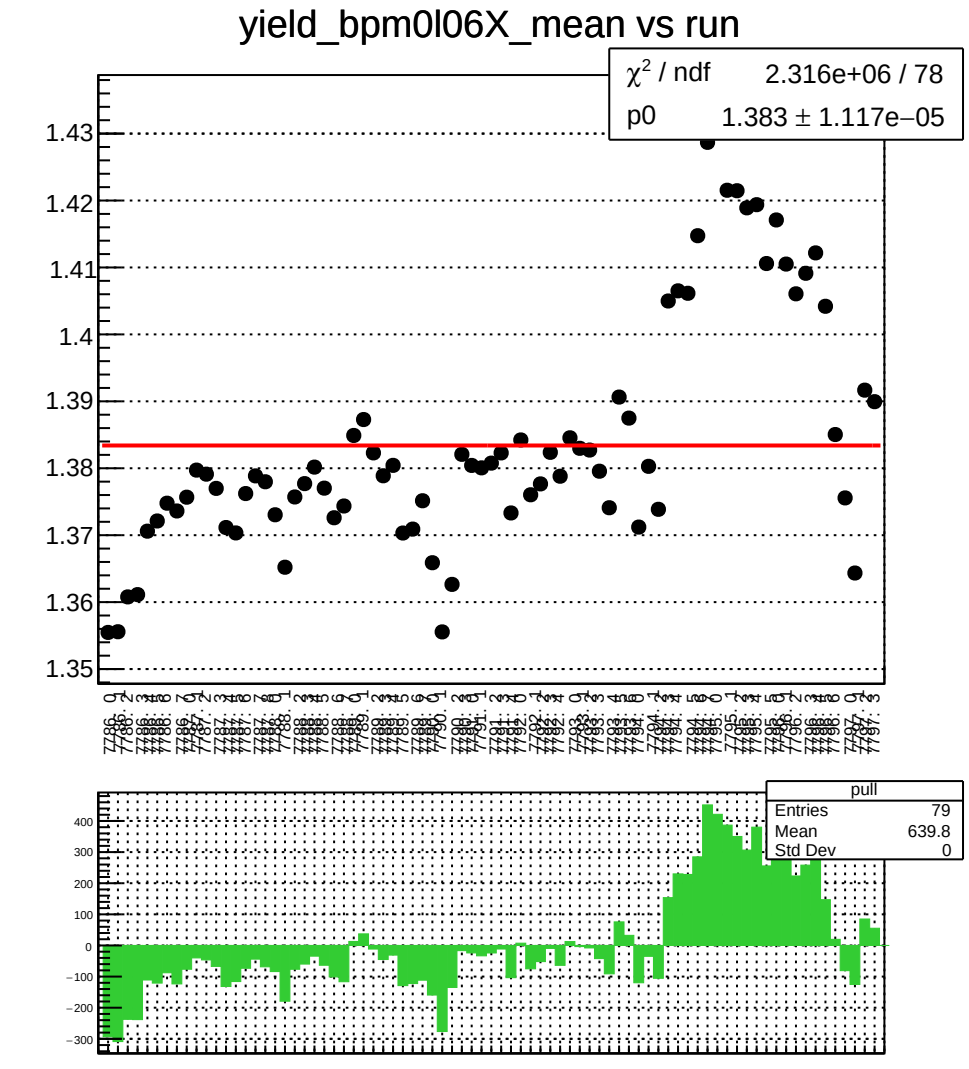

yield_bpm0l05X_mean vs run
χ² / ndf 1.628e+07 / 78
p0 0.505 ± 3.62e−06
0.54
0.53
0.52
0.51
0.5
0.49
0.48
pull
Entries 79
Mean −531.9
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 79
Mean −1.097
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

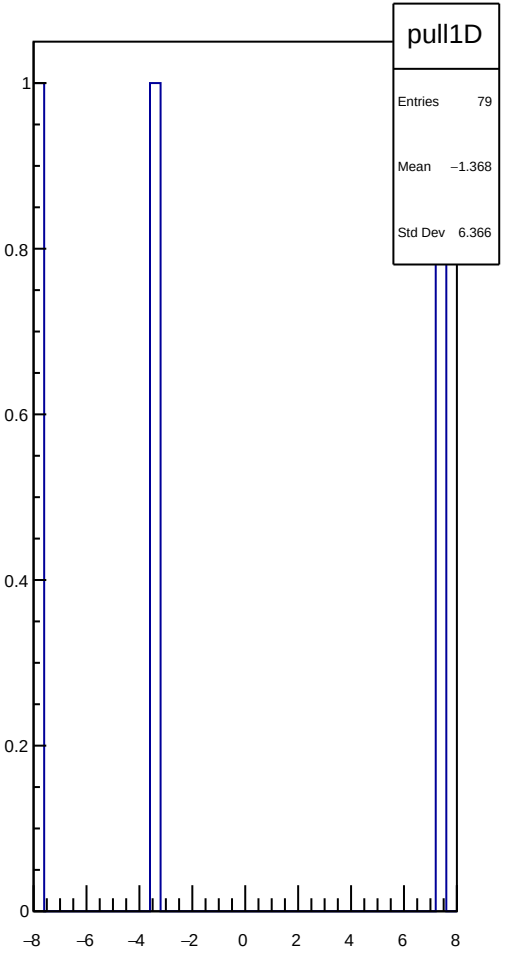

yield_bpm0l05X_rms vs run
χ² / ndf 3.573e+04 / 78
p0 0.003133 ± 2.56e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

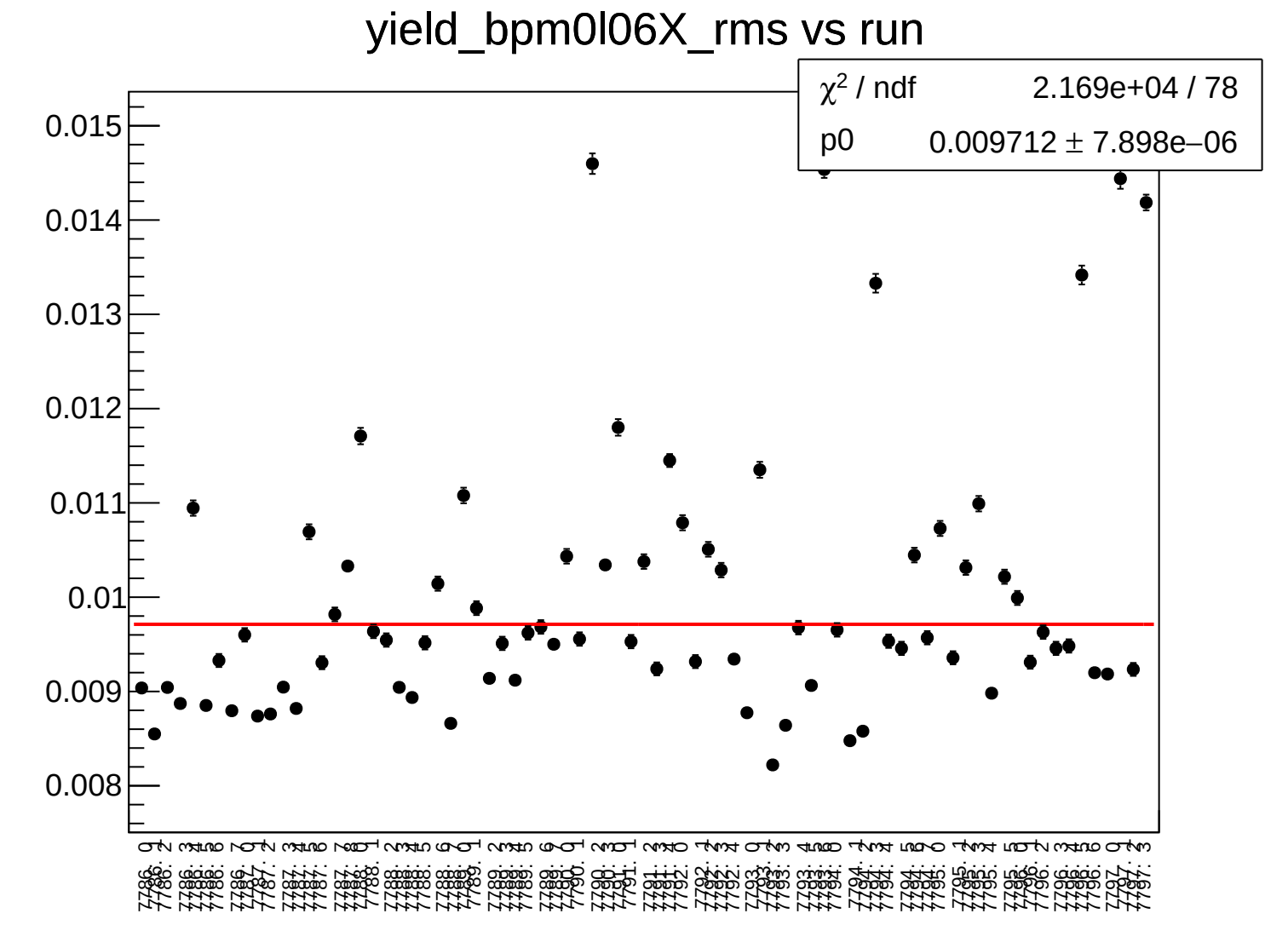

yield_bpm0l05Y_mean vs run
χ² / ndf 1.049e+07 / 78
p0 0.7559 ± 5.464e−06
0.8
0.78
0.76
0.74
0.72
pull
Entries 79
Mean 131.2
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

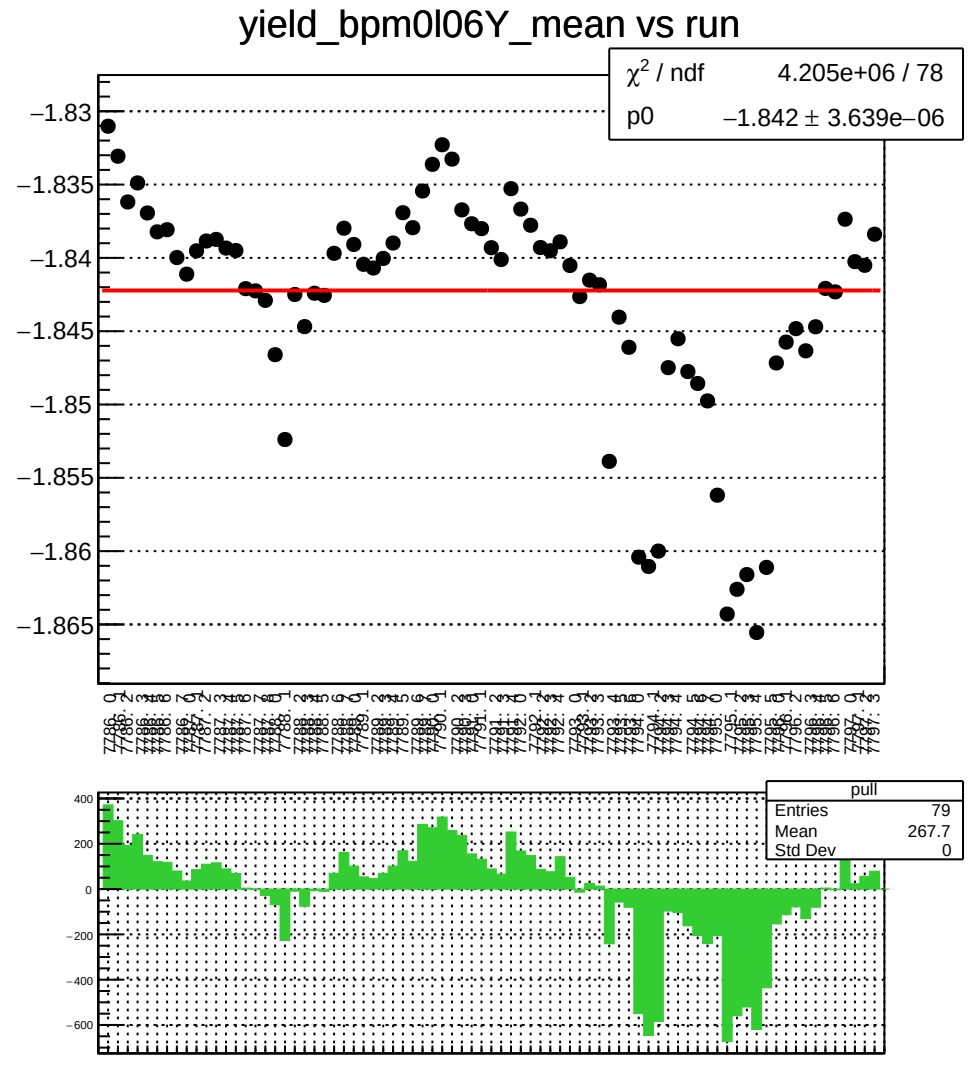

pull1D
Entries 79
Mean 4.794
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

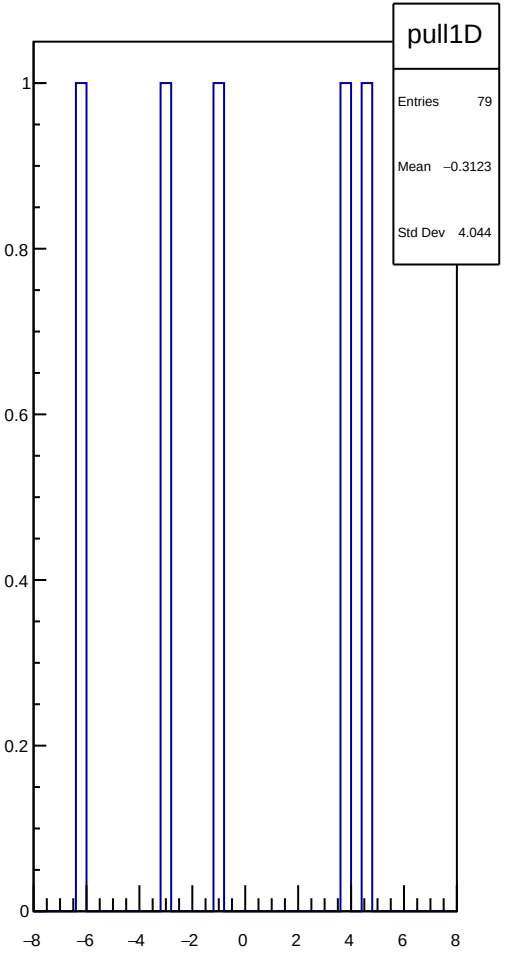

yield_bpm0l05Y_rms vs run
χ² / ndf 8.928e+04 / 78
p0 0.004644 ± 3.864e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

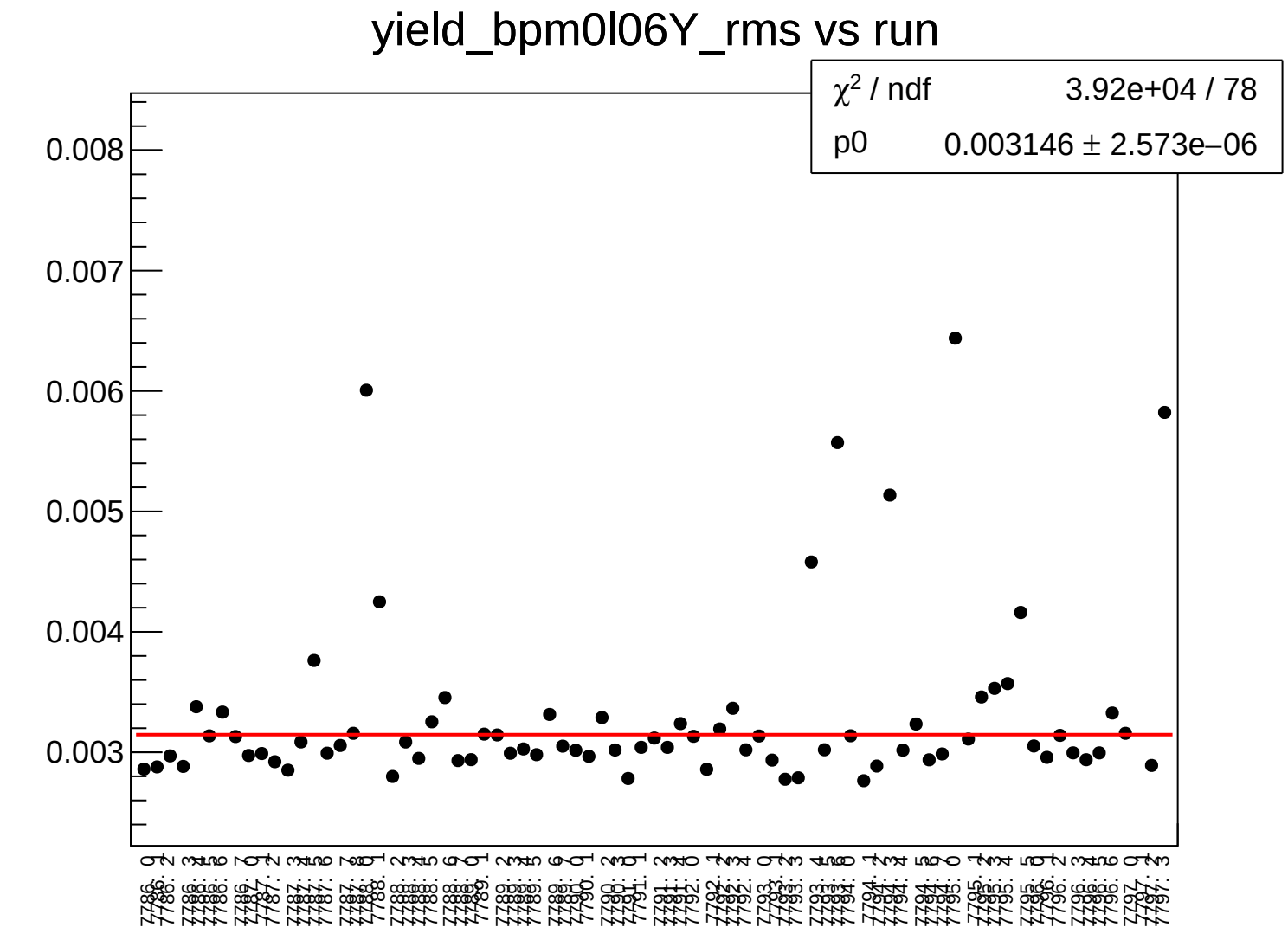

yield_bpm0l06X_mean vs run
χ² / ndf 2.316e+06 / 78
p0 1.383 ± 1.117e−05
1.43
1.42
1.41
1.4
1.39
1.38
1.37
1.36
1.35
pull
Entries 79
Mean 639.8
Std Dev 0
400
300
200
100
0
−100
−200
−300

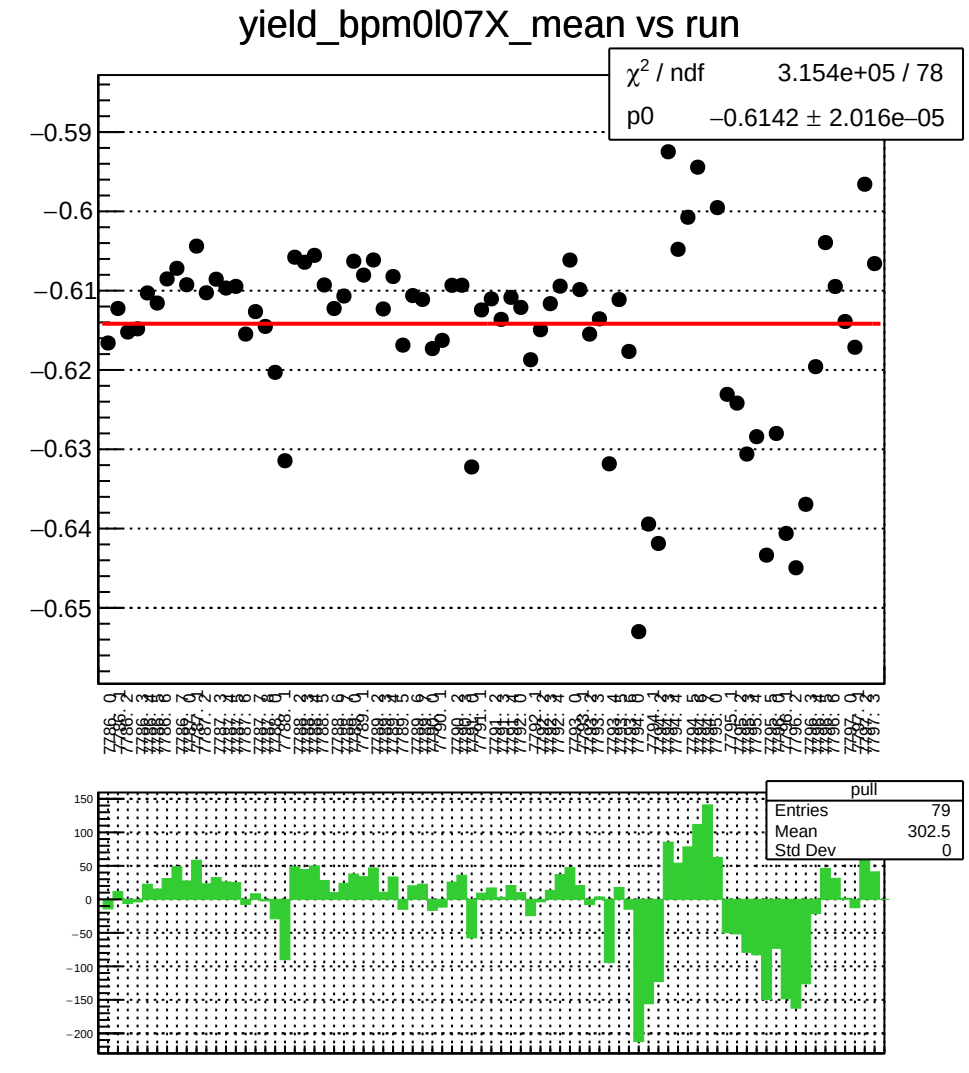

pull1D
Entries 79
Mean −1.368
Std Dev 6.366
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

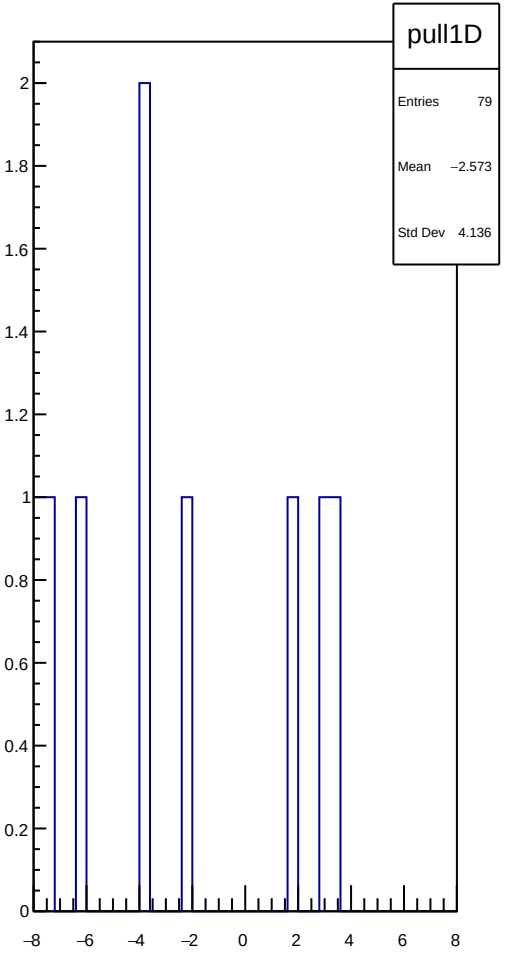

yield_bpm0l06X_rms vs run
χ² / ndf 2.169e+04 / 78
p0 0.009712 ± 7.898e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

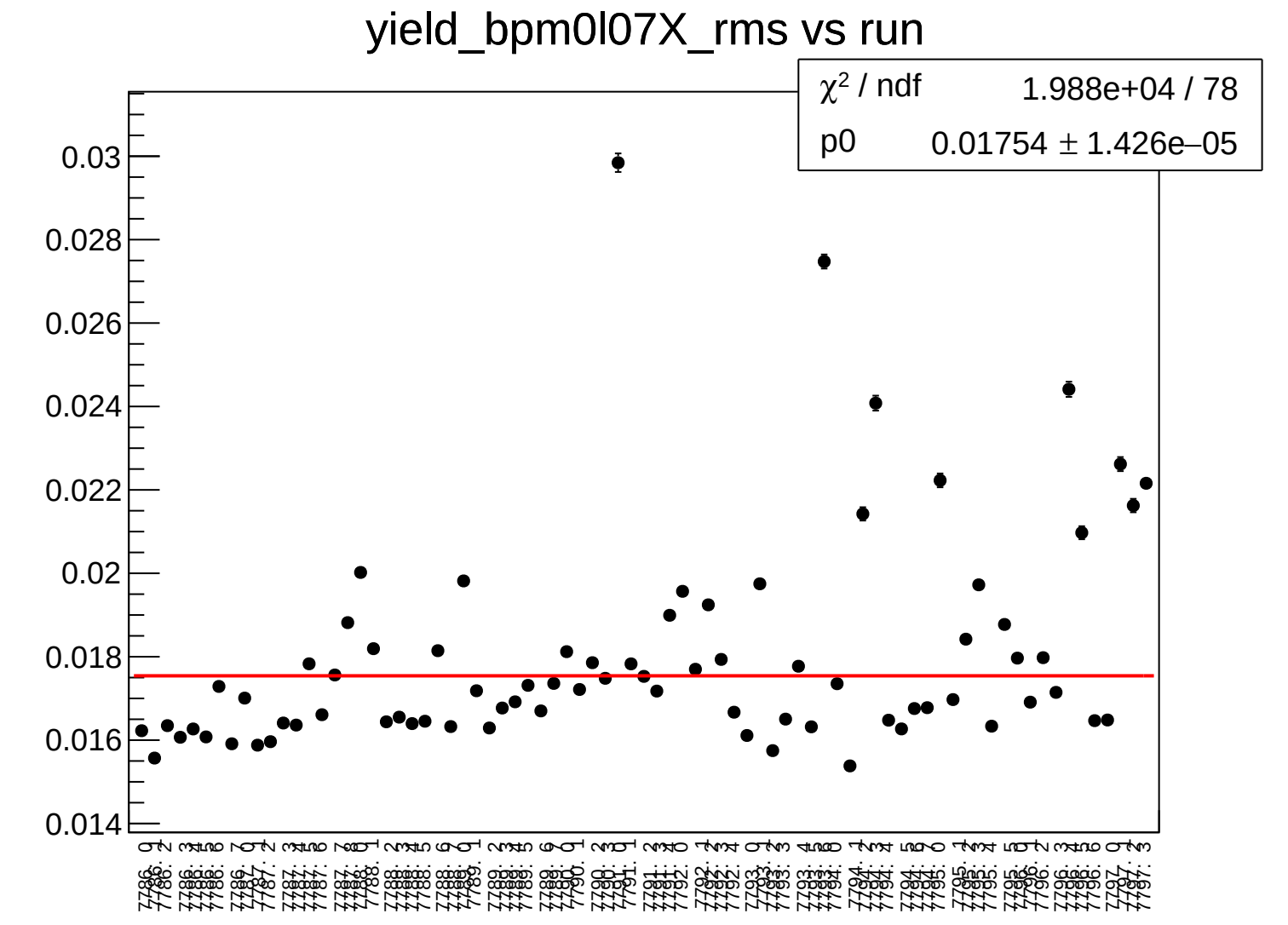

yield_bpm0l06Y_mean vs run
χ² / ndf 4.205e+06 / 78
p0 −1.842 ± 3.639e−06
−1.83
−1.835
−1.84
−1.845
−1.85
−1.855
−1.86
−1.865
pull
Entries 79
Mean 267.7
Std Dev 0
400
200
0
−200
−400
−600

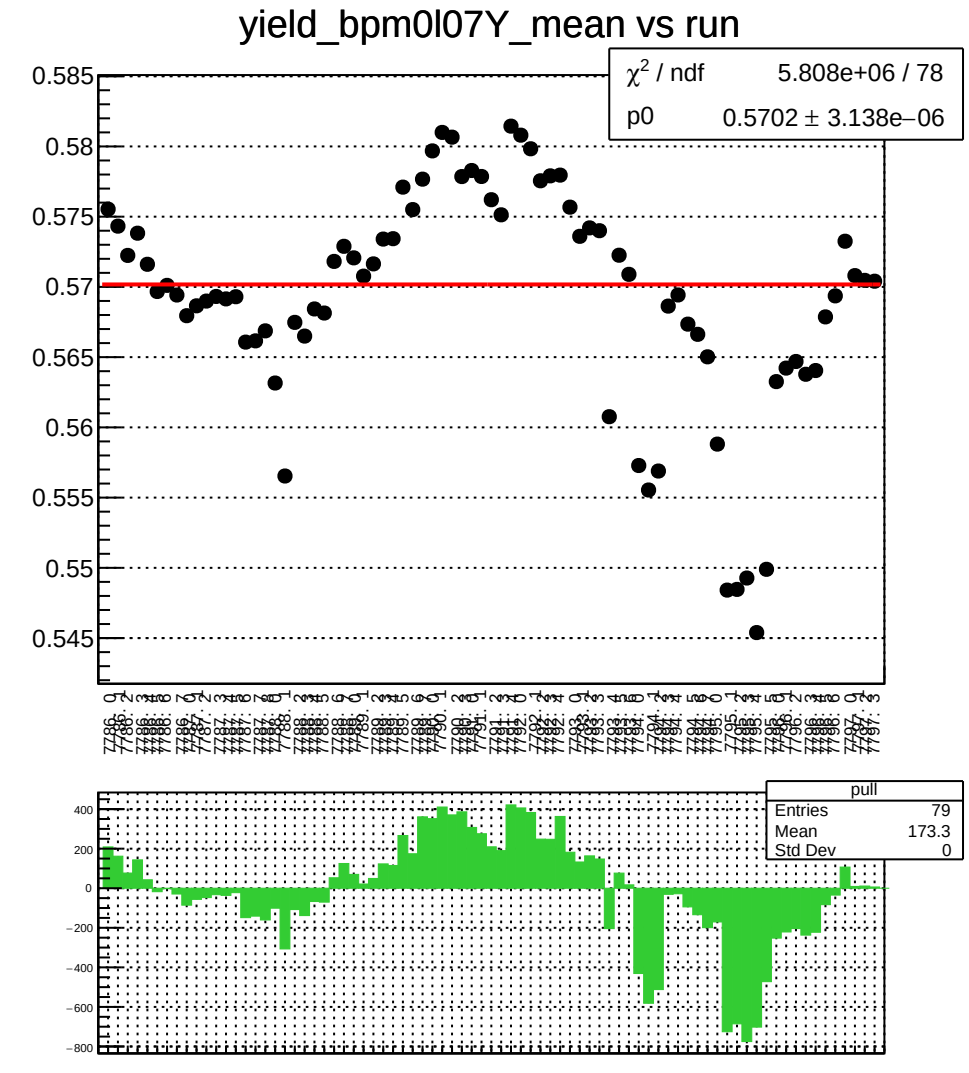

pull1D
Entries 79
Mean −0.3123
Std Dev 4.044
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

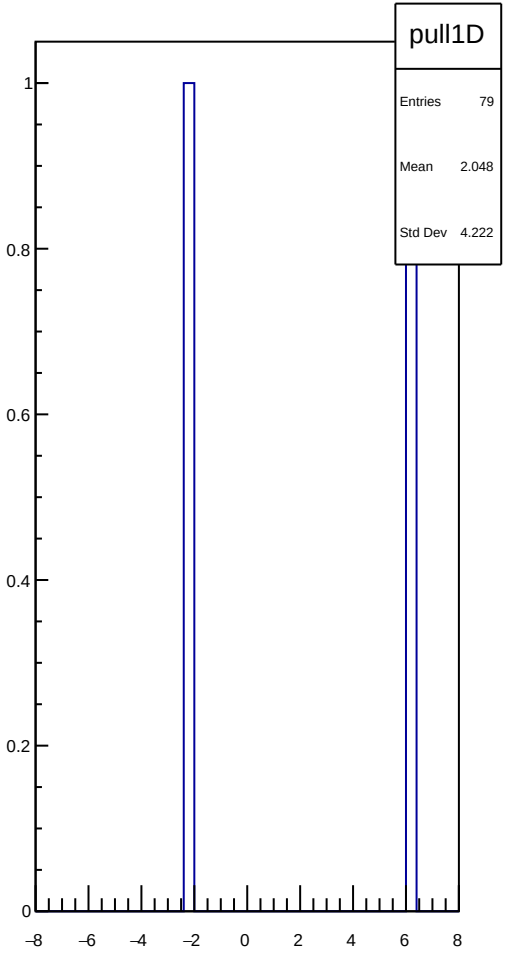

yield_bpm0l06Y_rms vs run
χ² / ndf 3.92e+04 / 78
p0 0.003146 ± 2.573e−06
0.008
0.007
0.006
0.005
0.004
0.003

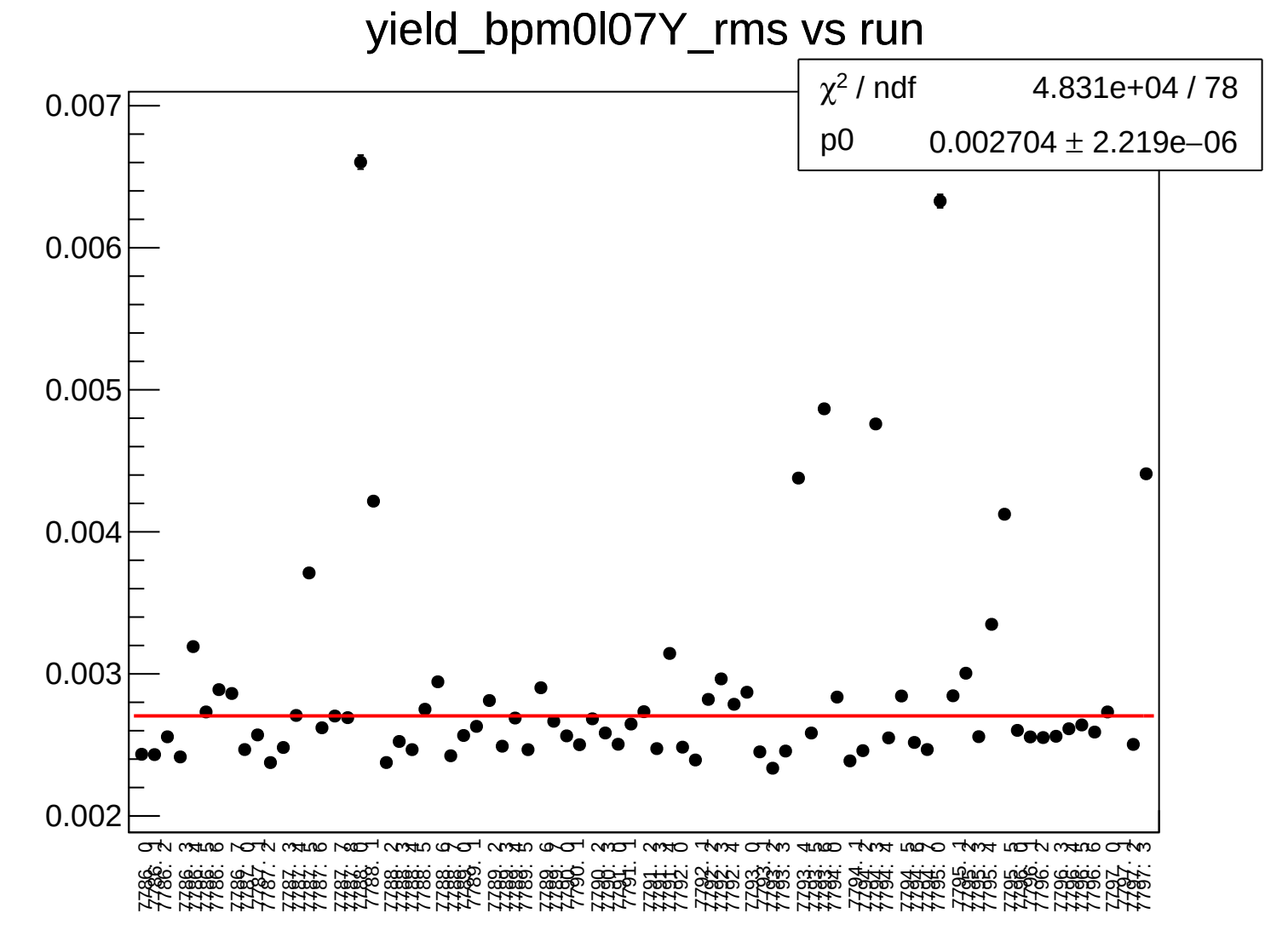

yield_bpm0l07X_mean vs run
χ² / ndf 3.154e+05 / 78
p0 −0.6142 ± 2.016e−05
−0.59
−0.6
−0.61
−0.62
−0.63
−0.64
−0.65
pull
Entries 79
Mean 302.5
Std Dev 0
150
100
50
0
−50
−100
−150
−200

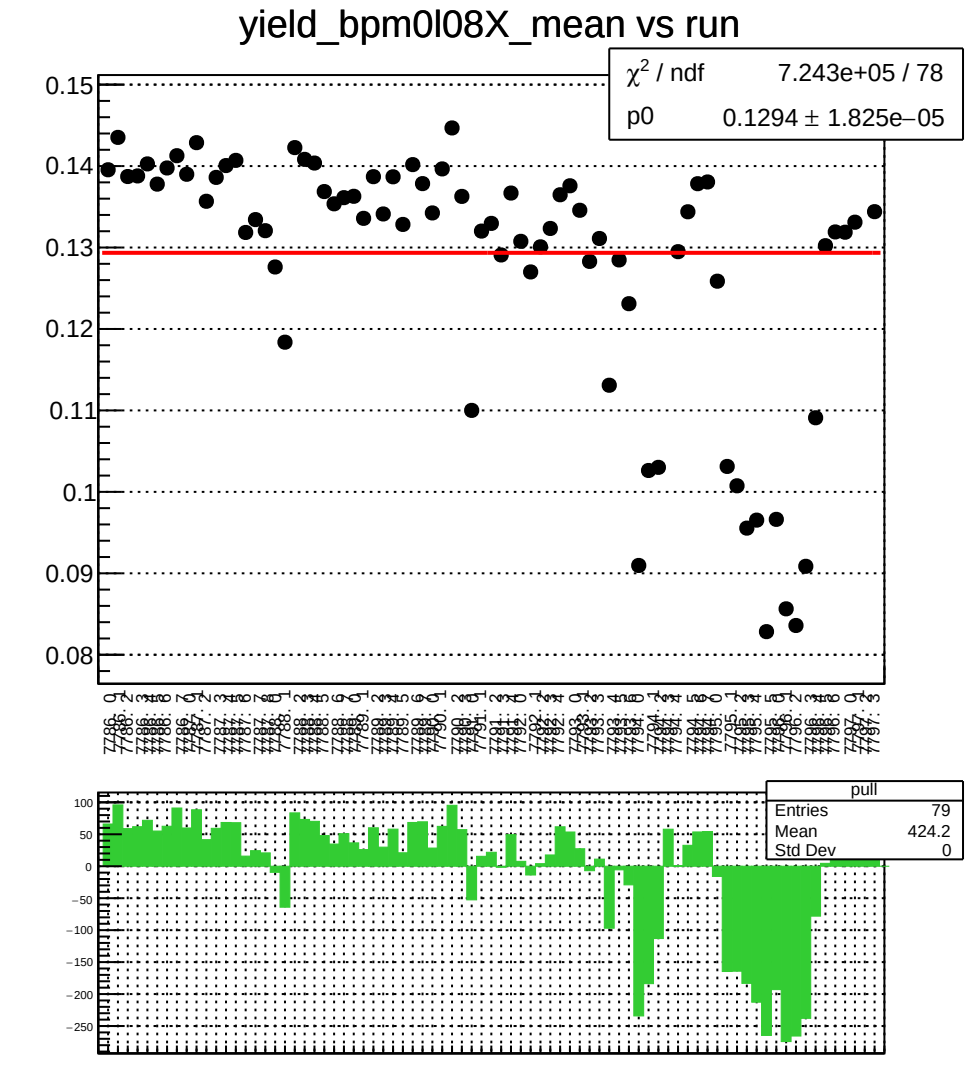

pull1D
Entries 79
Mean −2.573
Std Dev 4.136
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

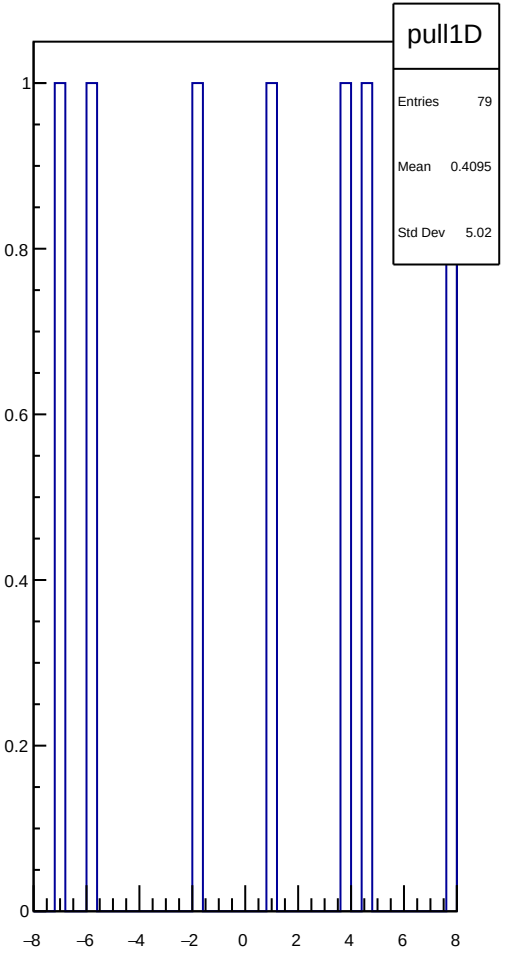

yield_bpm0l07X_rms vs run
χ² / ndf 1.988e+04 / 78
p0 0.01754 ± 1.426e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

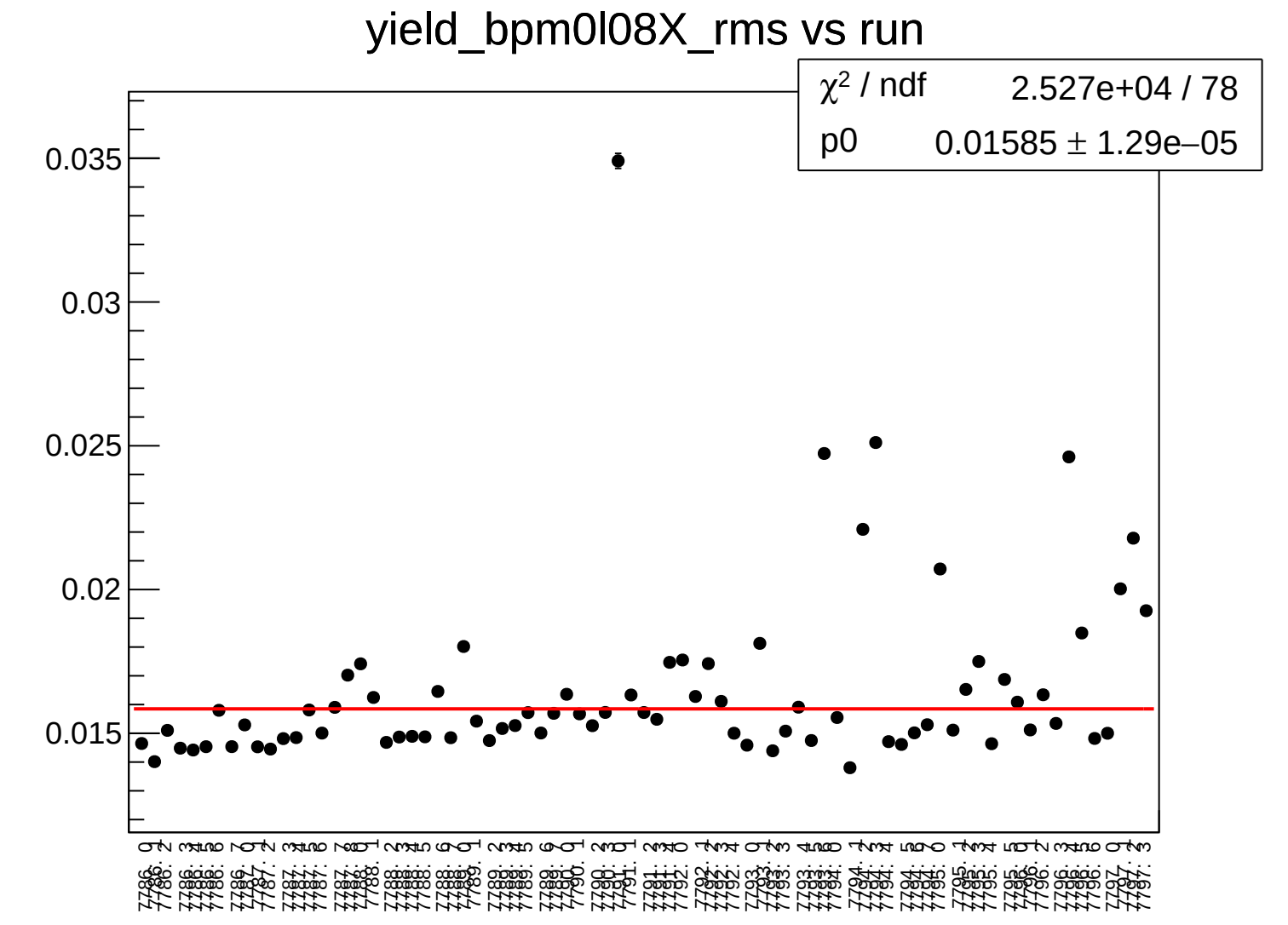

yield_bpm0l07Y_mean vs run
χ² / ndf 5.808e+06 / 78
p0 0.5702 ± 3.138e−06
0.585
0.58
0.575
0.57
0.565
0.56
0.555
0.55
0.545
pull
Entries 79
Mean 173.3
Std Dev 0
400
200
0
−200
−400
−600
−800

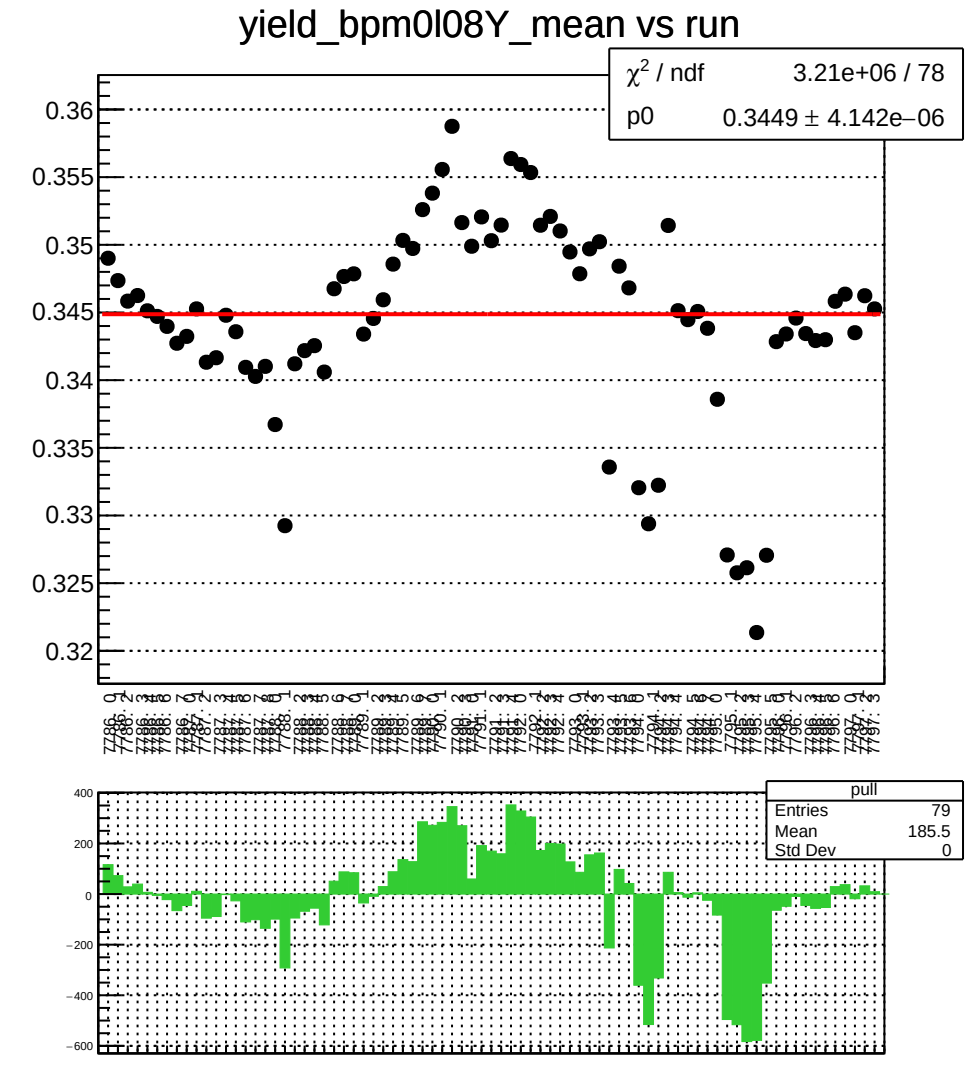

pull1D
Entries 79
Mean 2.048
Std Dev 4.222
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

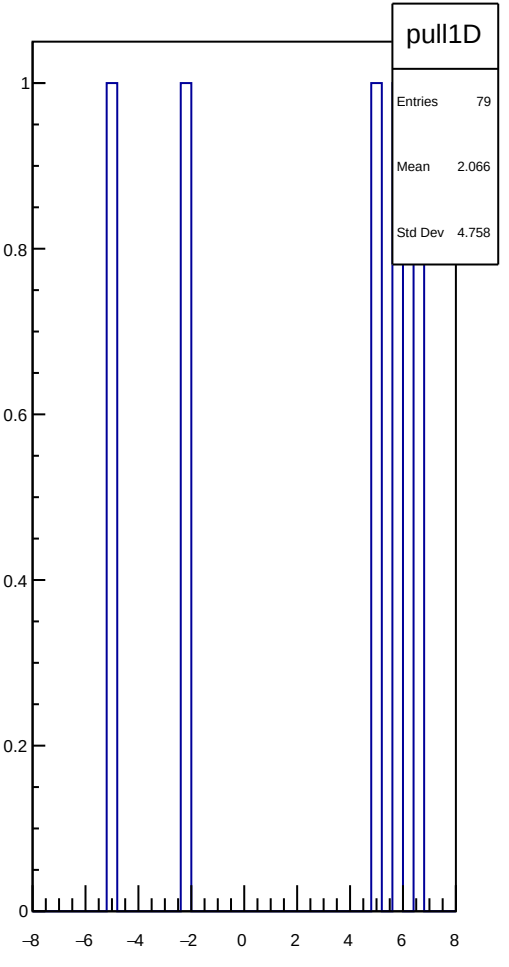

yield_bpm0l07Y_rms vs run
χ² / ndf 4.831e+04 / 78
p0 0.002704 ± 2.219e−06
0.007
0.006
0.005
0.004
0.003
0.002

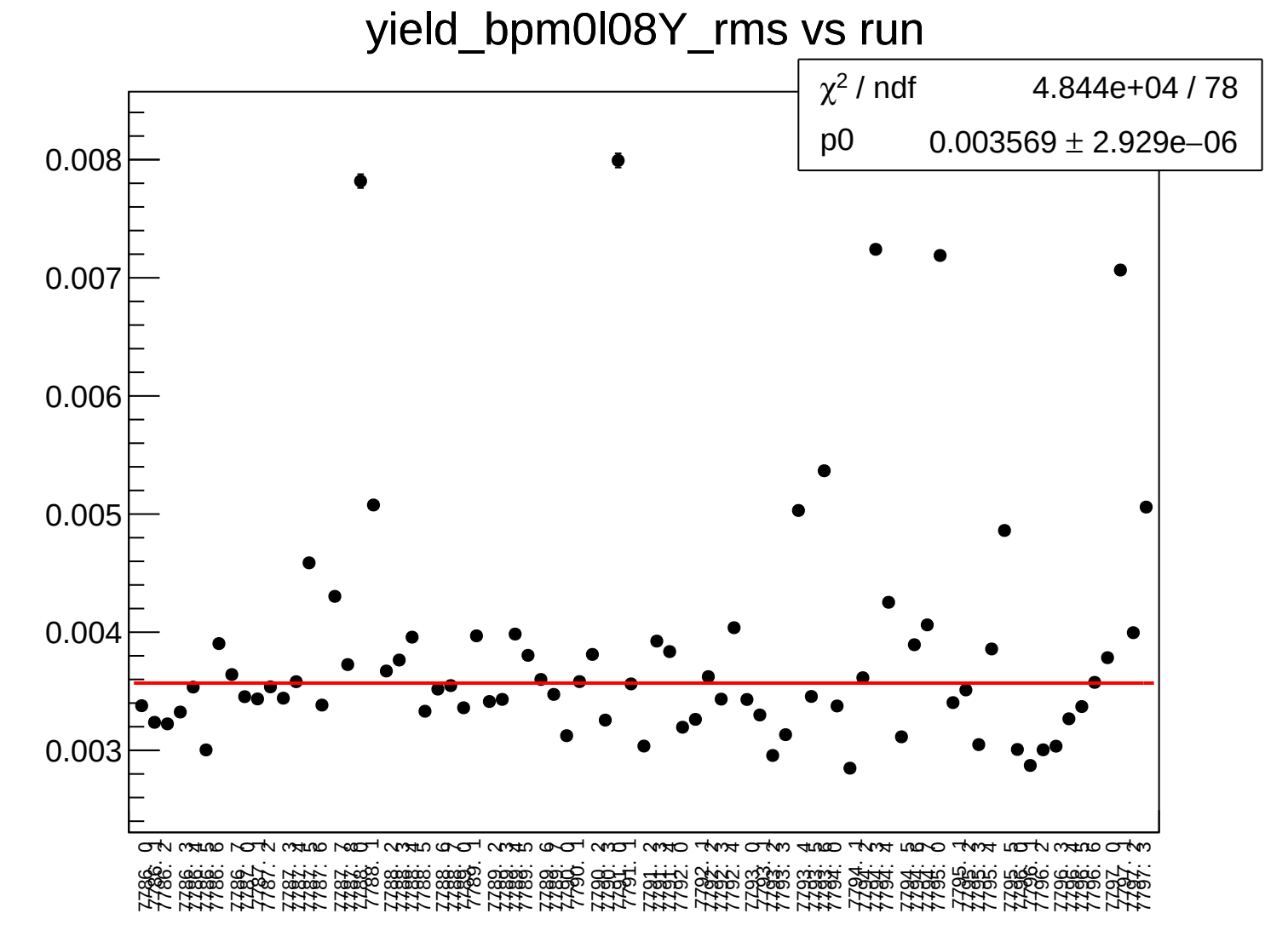

yield_bpm0l08X_mean vs run
χ² / ndf 7.243e+05 / 78
p0 0.1294 ± 1.825e−05
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
pull
Entries 79
Mean 424.2
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

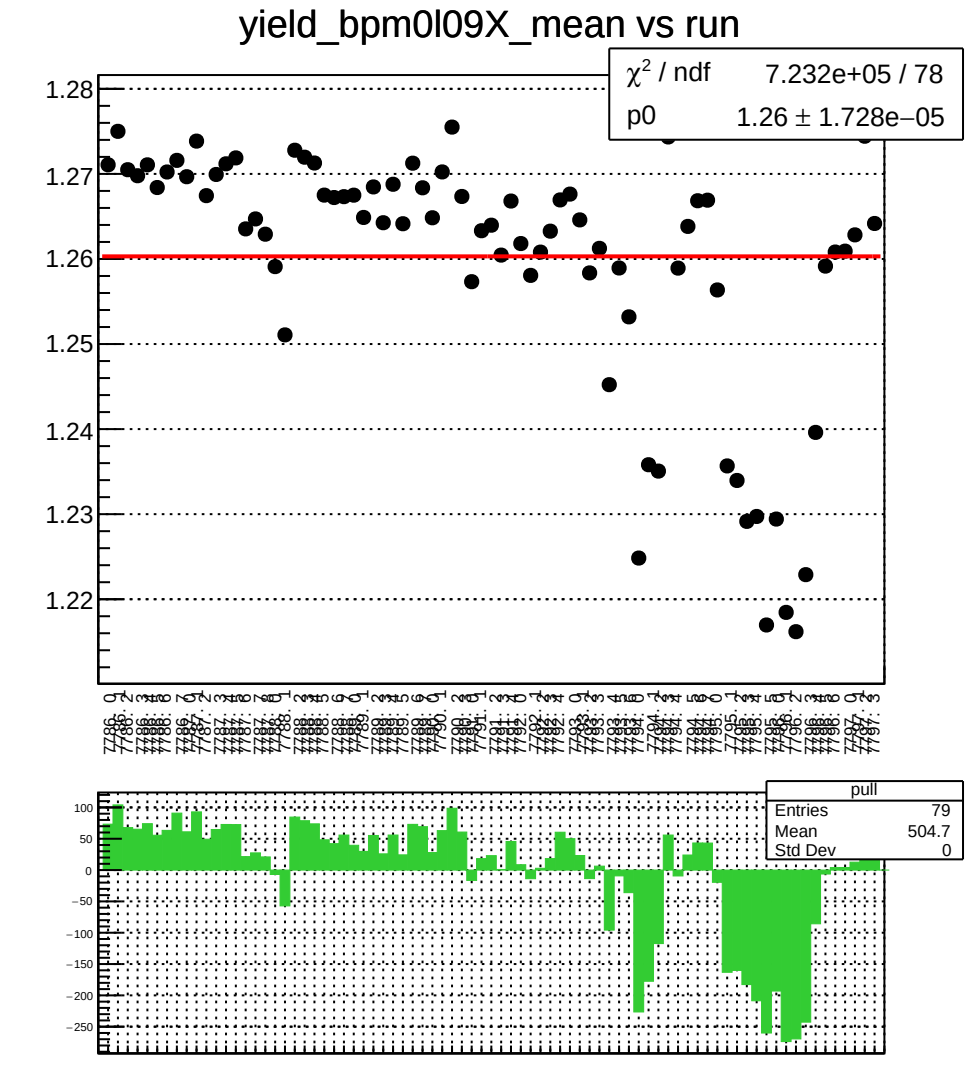

pull1D
Entries 79
Mean 0.4095
Std Dev 5.02
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

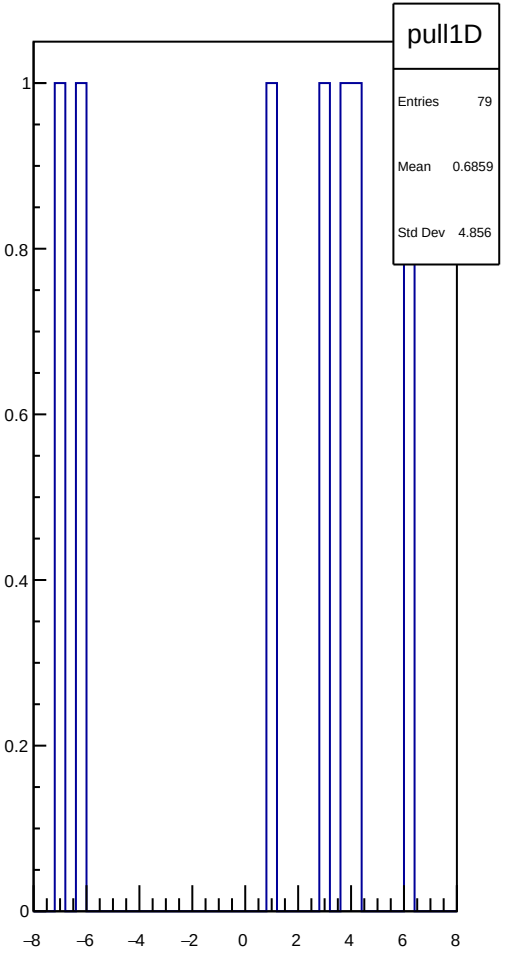

yield_bpm0l08X_rms vs run
χ² / ndf 2.527e+04 / 78
p0 0.01585 ± 1.29e−05
0.035
0.03
0.025
0.02
0.015

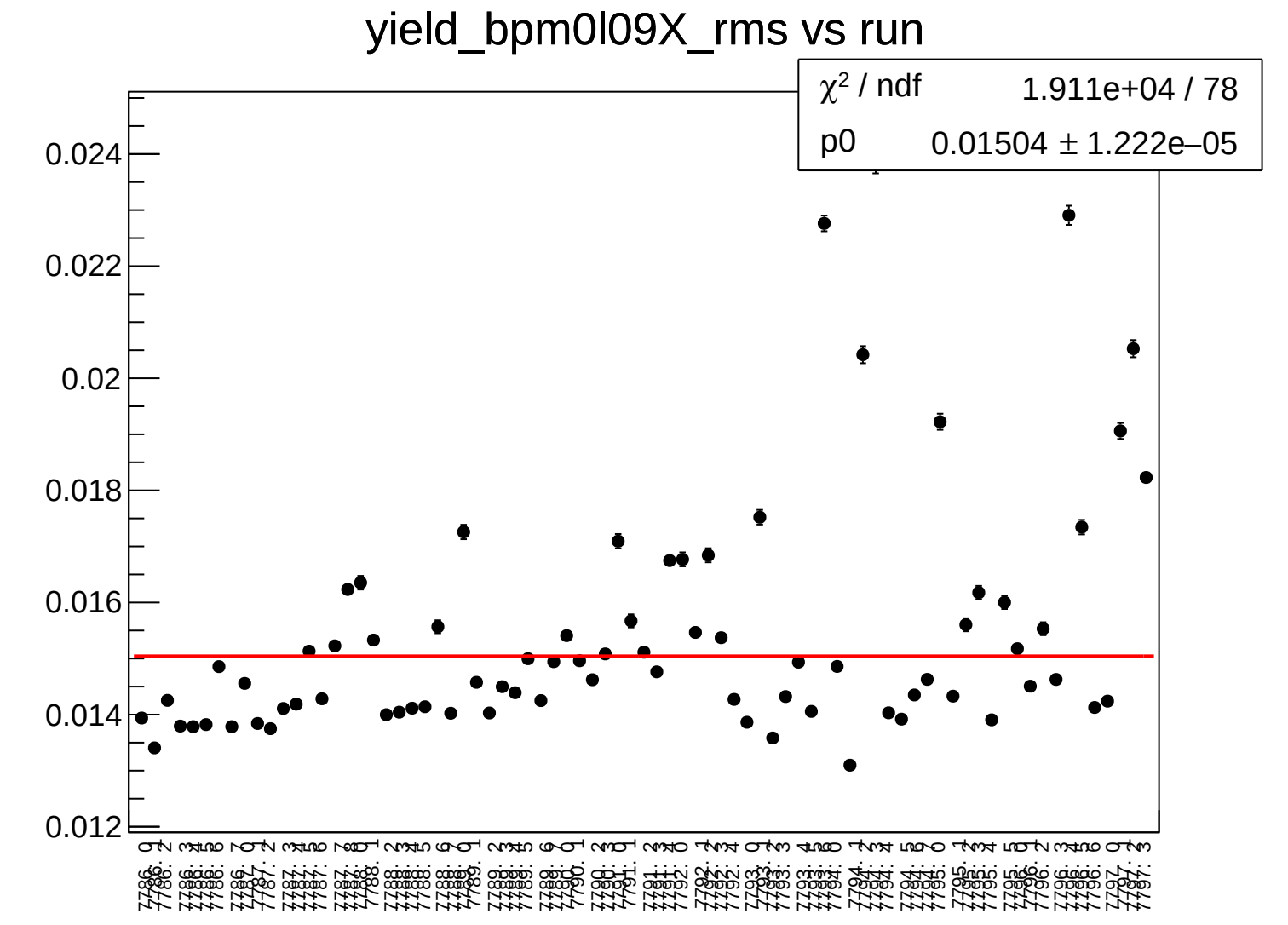

yield_bpm0l08Y_mean vs run
χ² / ndf 3.21e+06 / 78
p0 0.3449 ± 4.142e−06
0.36
0.355
0.35
0.345
0.34
0.335
0.33
0.325
0.32
pull
Entries 79
Mean 185.5
Std Dev 0
400
200
0
−200
−400
−600

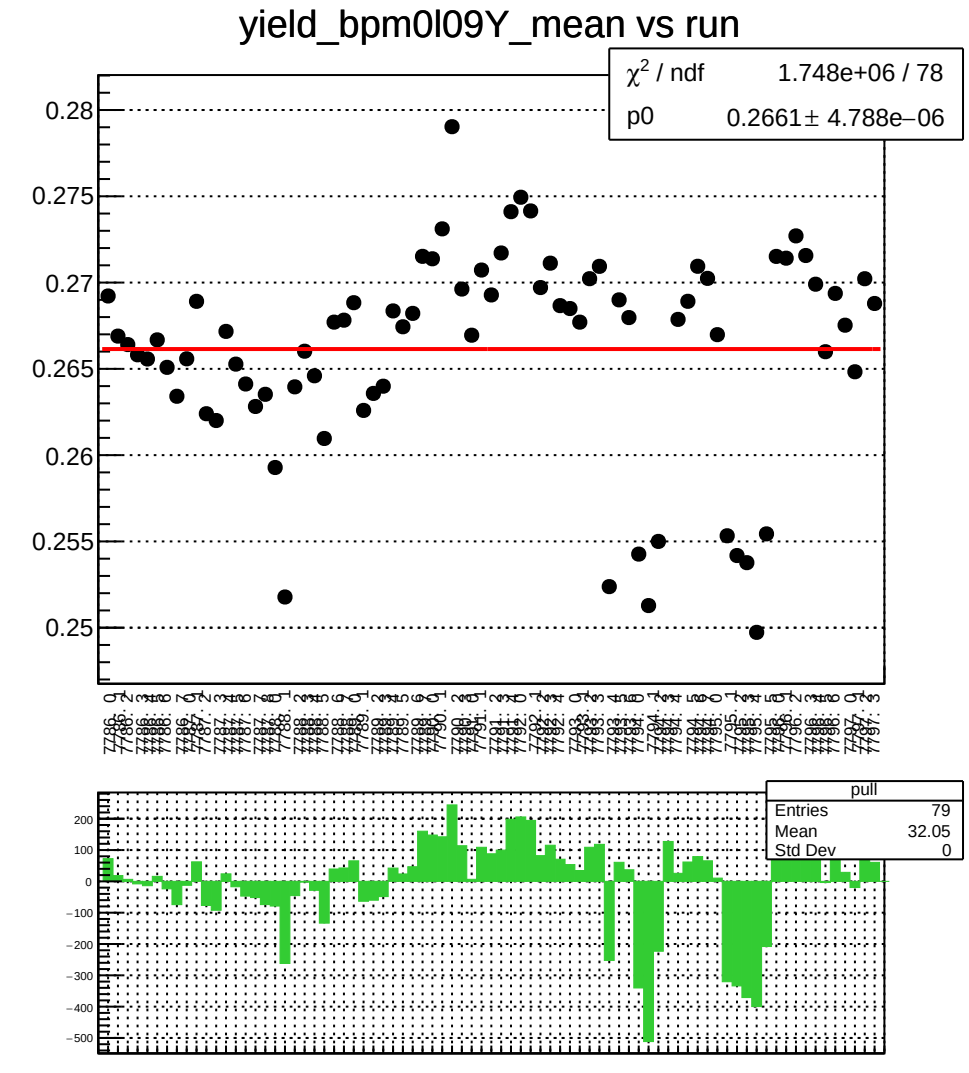

pull1D
Entries 79
Mean 2.066
Std Dev 4.758
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

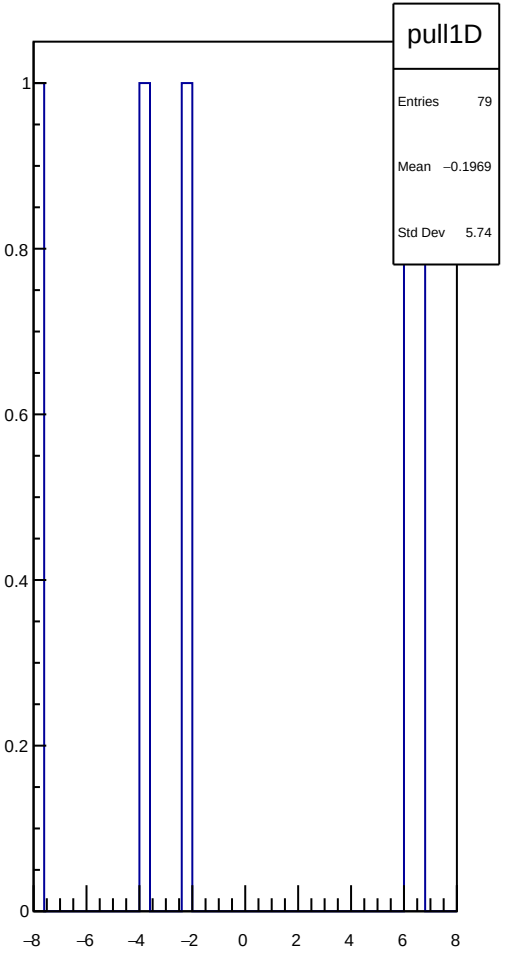

yield_bpm0l08Y_rms vs run
χ^2 / ndf 4.844e+04 / 78
p0 0.003569 ± 2.929e−06
0.008
0.007
0.006
0.005
0.004
0.003

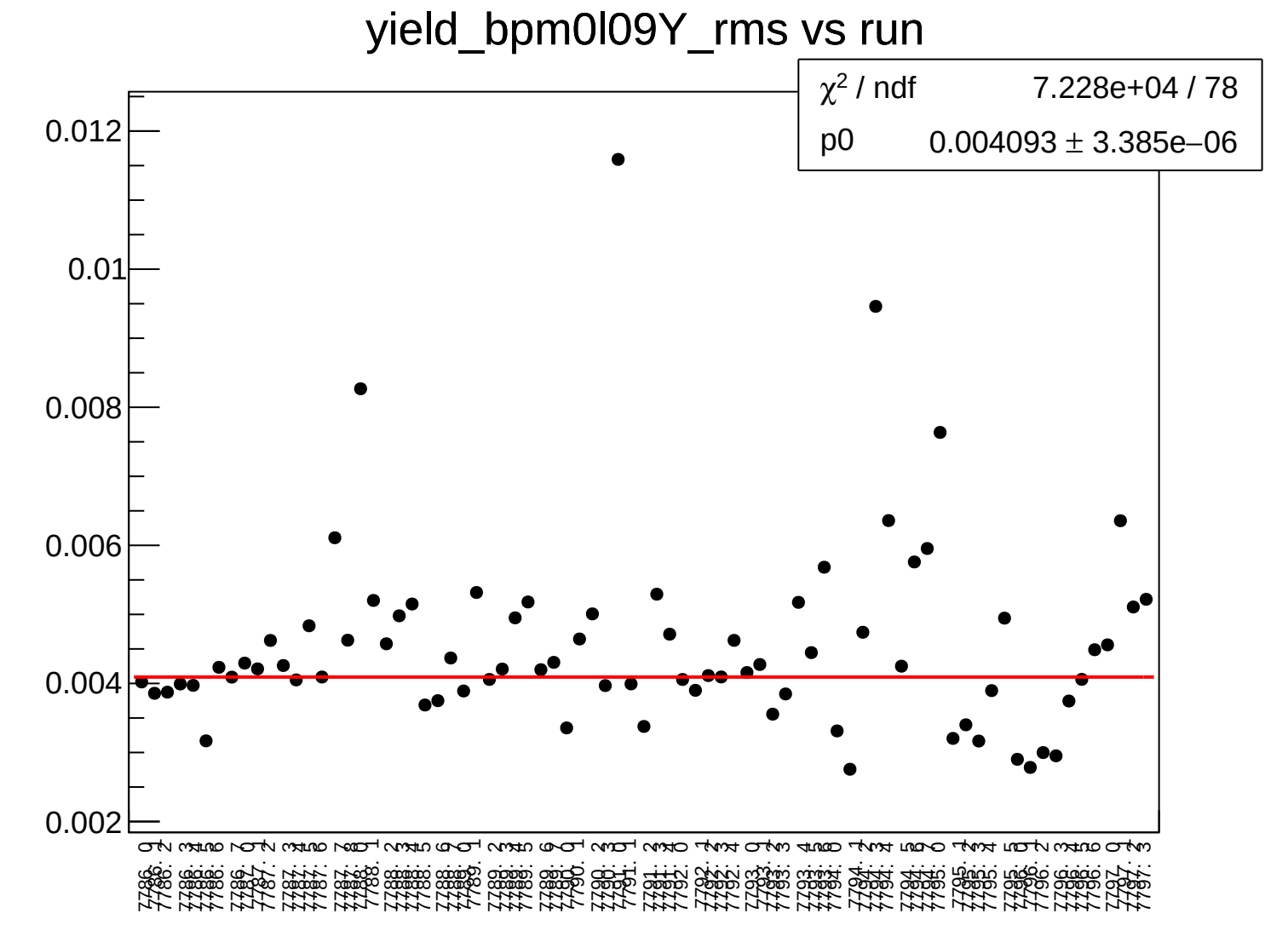

yield_bpm0l09X_mean vs run
χ² / ndf 7.232e+05 / 78
p0 1.26 ± 1.728e−05
1.28
1.27
1.26
1.25
1.24
1.23
1.22
pull
Entries 79
Mean 504.7
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

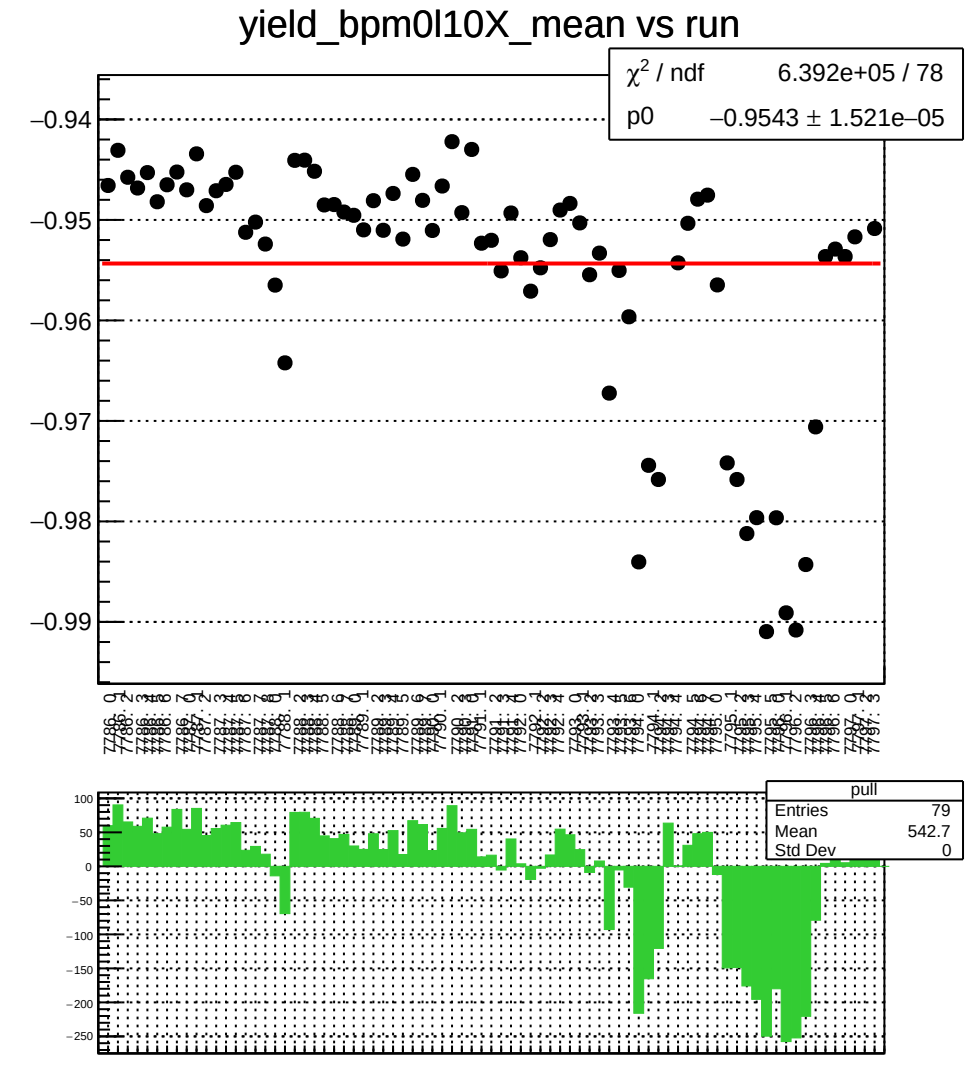

pull1D
Entries 79
Mean 0.6859
Std Dev 4.856
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

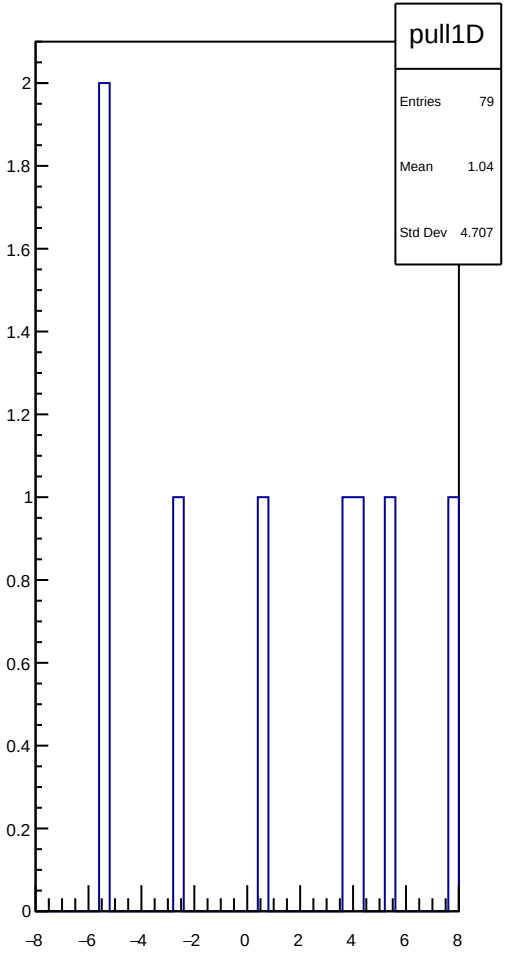

yield_bpm0l09X_rms vs run
χ² / ndf 1.911e+04 / 78
p0 0.01504 ± 1.222e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

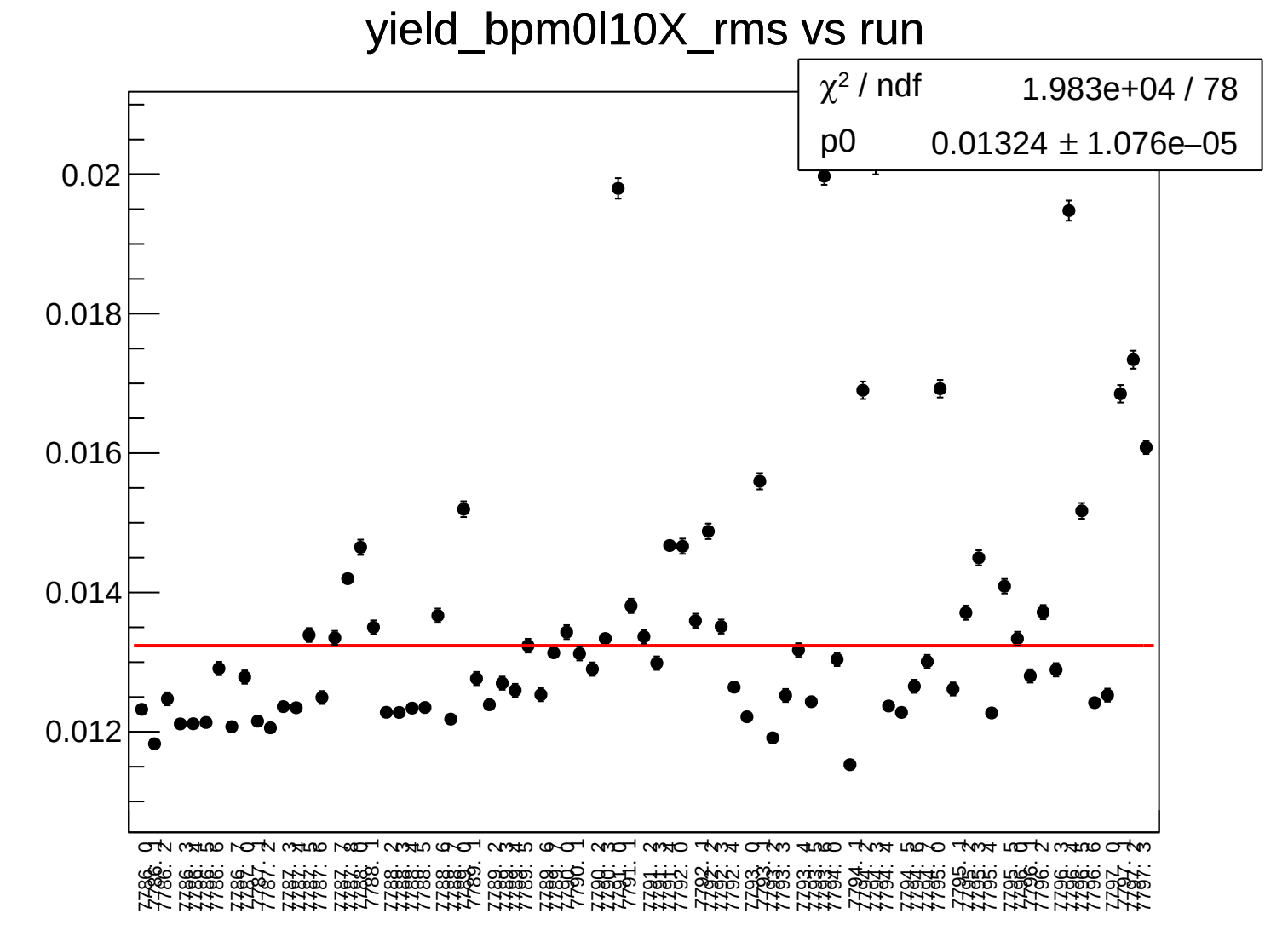

yield_bpm0l09Y_mean vs run
χ² / ndf 1.748e+06 / 78
p0 0.2661 ± 4.788e−06
0.28
0.275
0.27
0.265
0.26
0.255
0.25
pull
Entries 79
Mean 32.05
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

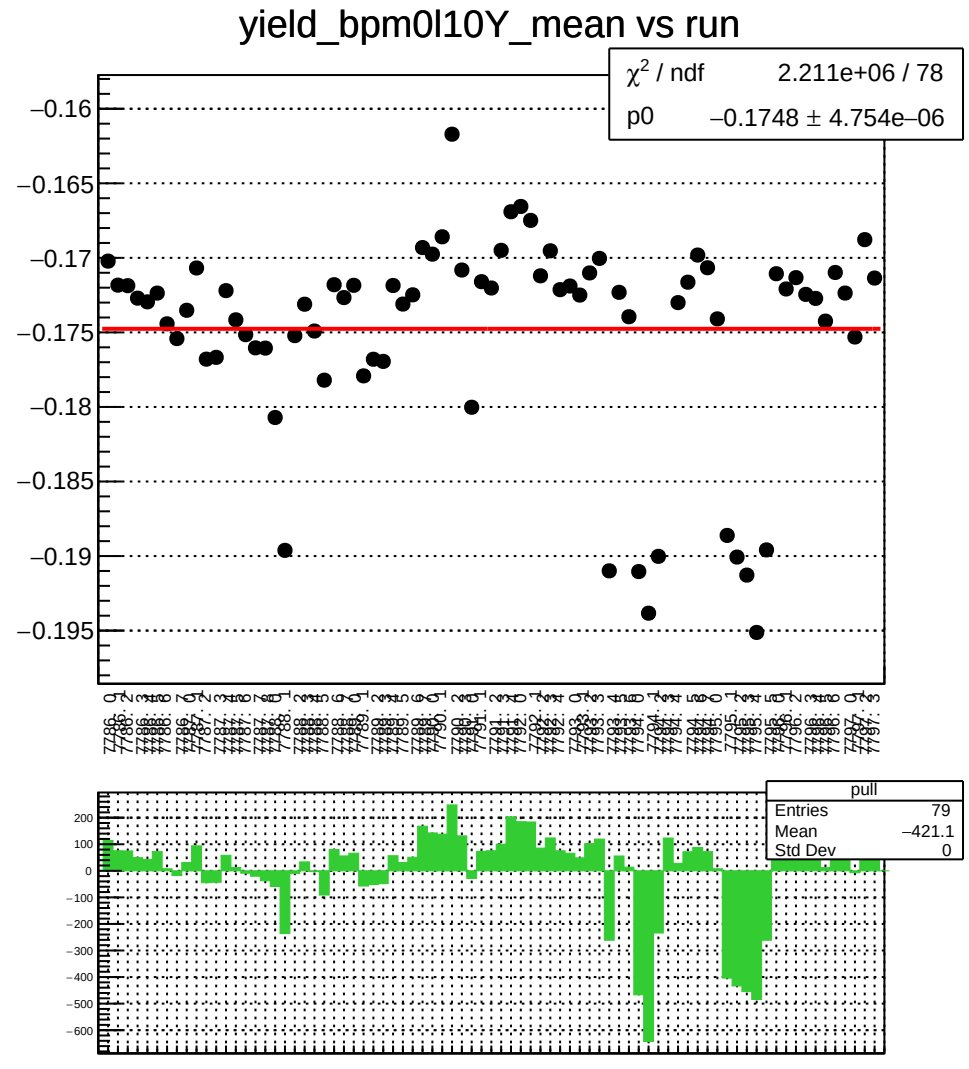

pull1D
Entries 79
Mean −0.1969
Std Dev 5.74
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

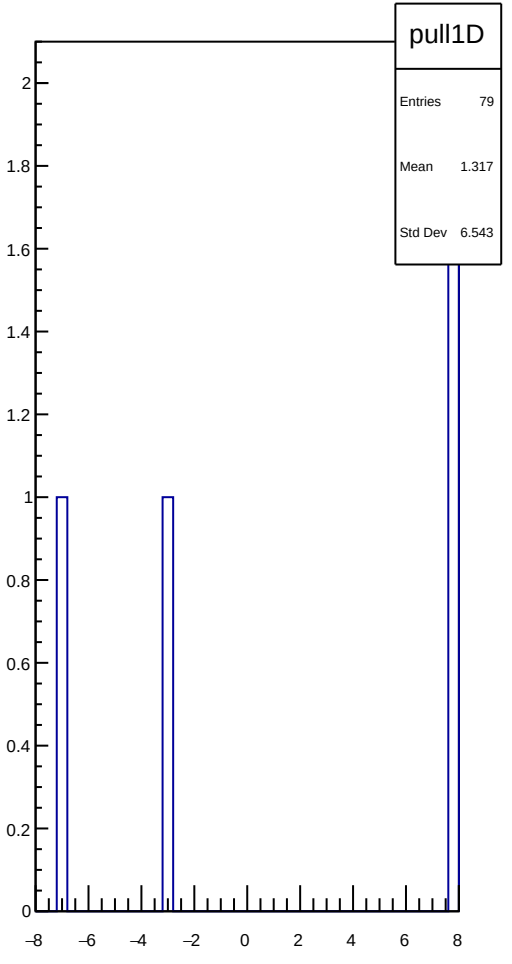

yield_bpm0l09Y_rms vs run
χ² / ndf 7.228e+04 / 78
p0 0.004093 ± 3.385e−06
0.012
0.01
0.008
0.006
0.004
0.002

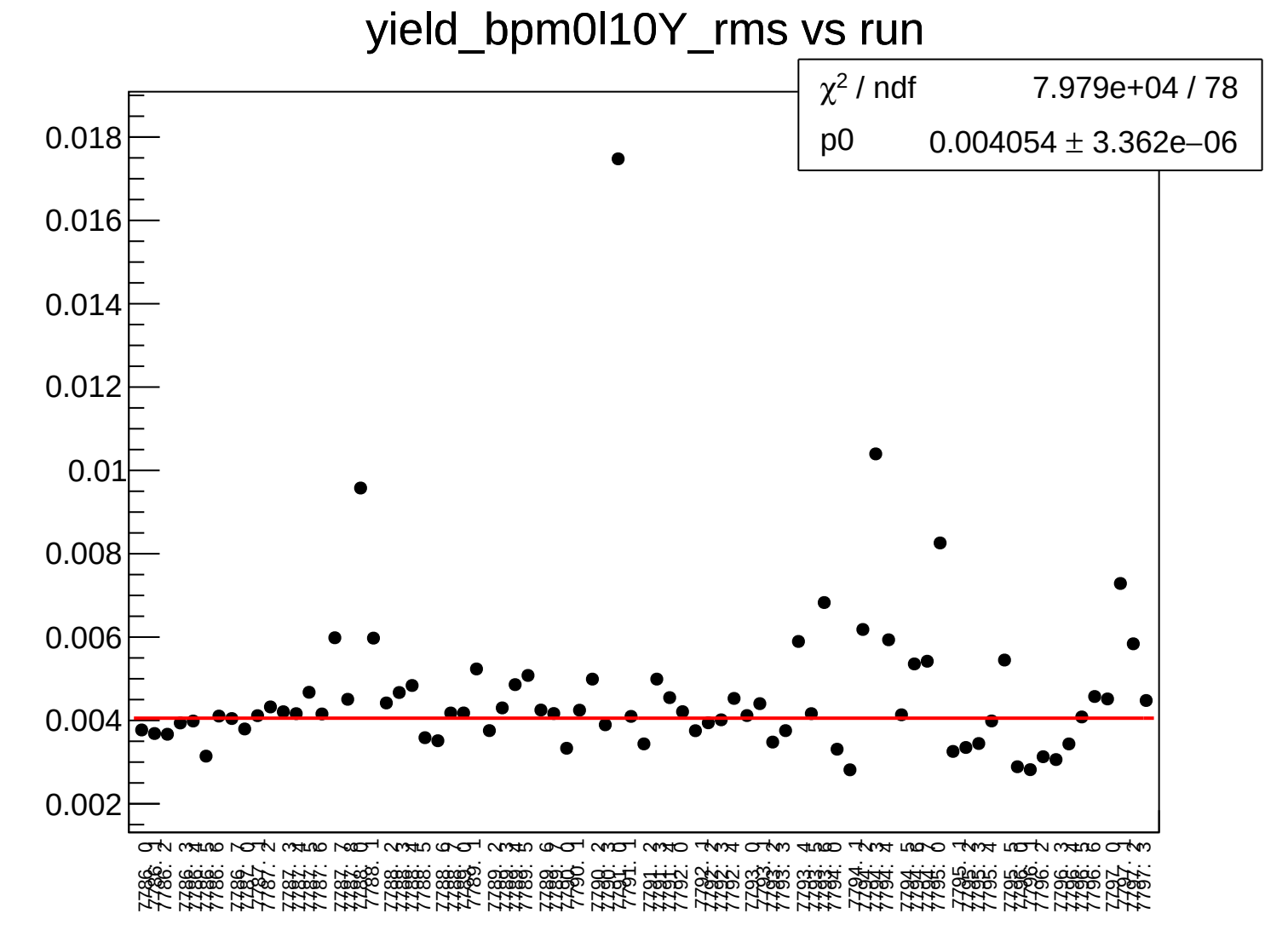

yield_bpm0l10X_mean vs run
χ² / ndf 6.392e+05 / 78
p0 −0.9543 ± 1.521e−05
−0.94
−0.95
−0.96
−0.97
−0.98
−0.99
pull
Entries 79
Mean 542.7
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

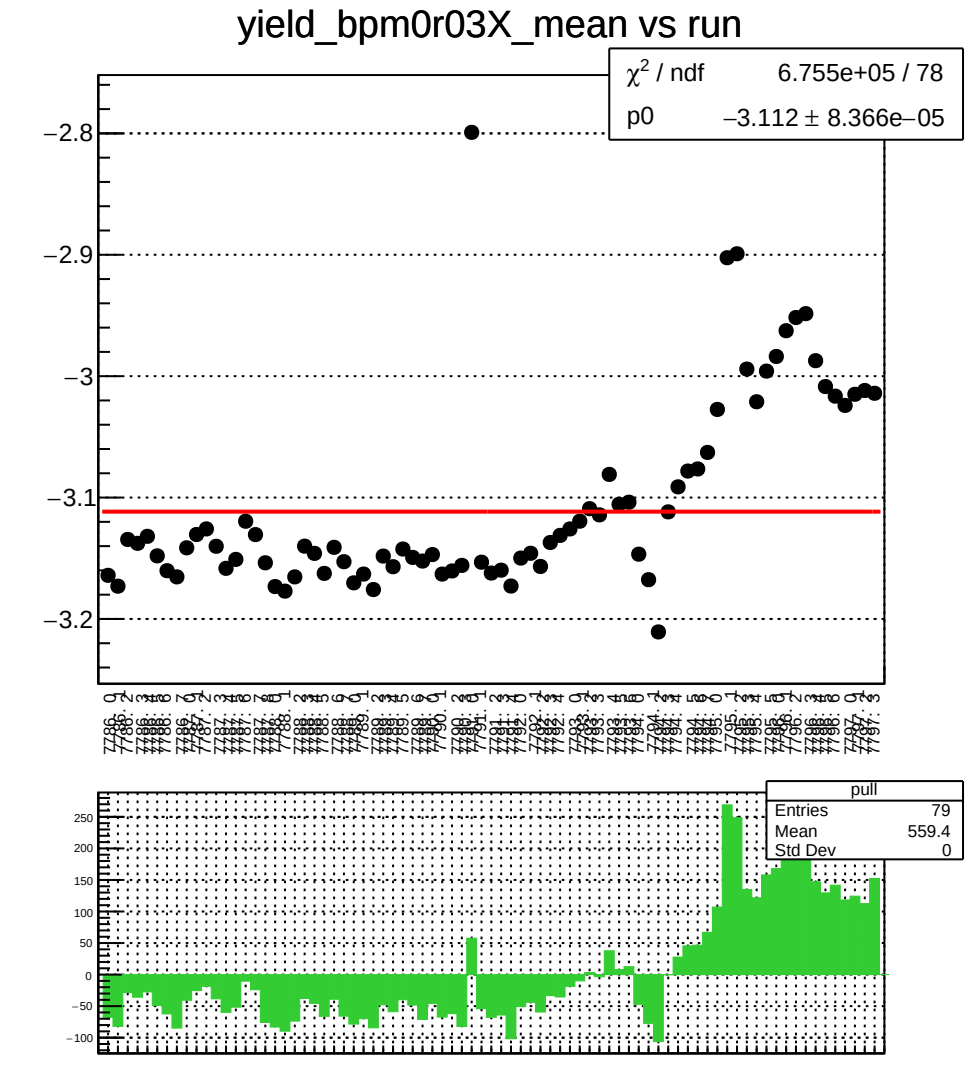

pull1D
Entries 79
Mean 1.04
Std Dev 4.707
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

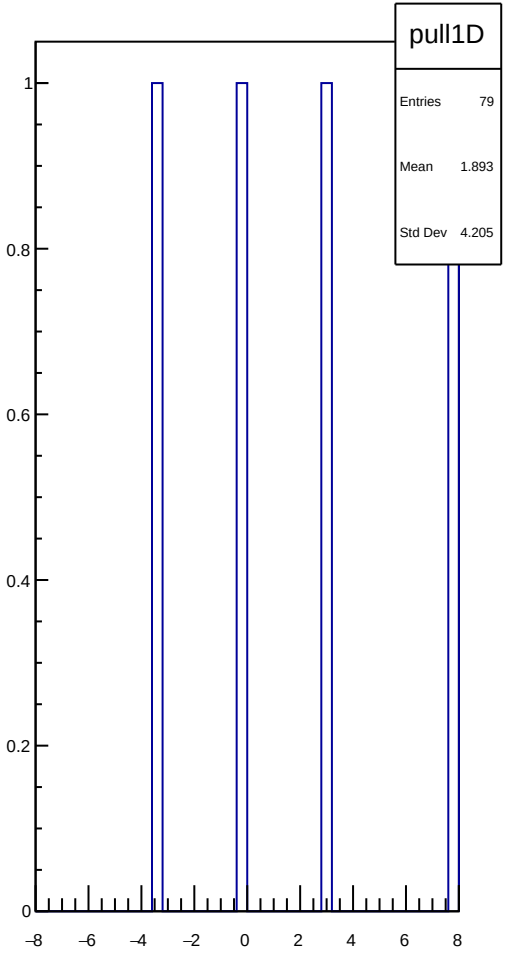

yield_bpm0l10X_rms vs run
χ² / ndf 1.983e+04 / 78
p0 0.01324 ± 1.076e−05
0.02
0.018
0.016
0.014
0.012

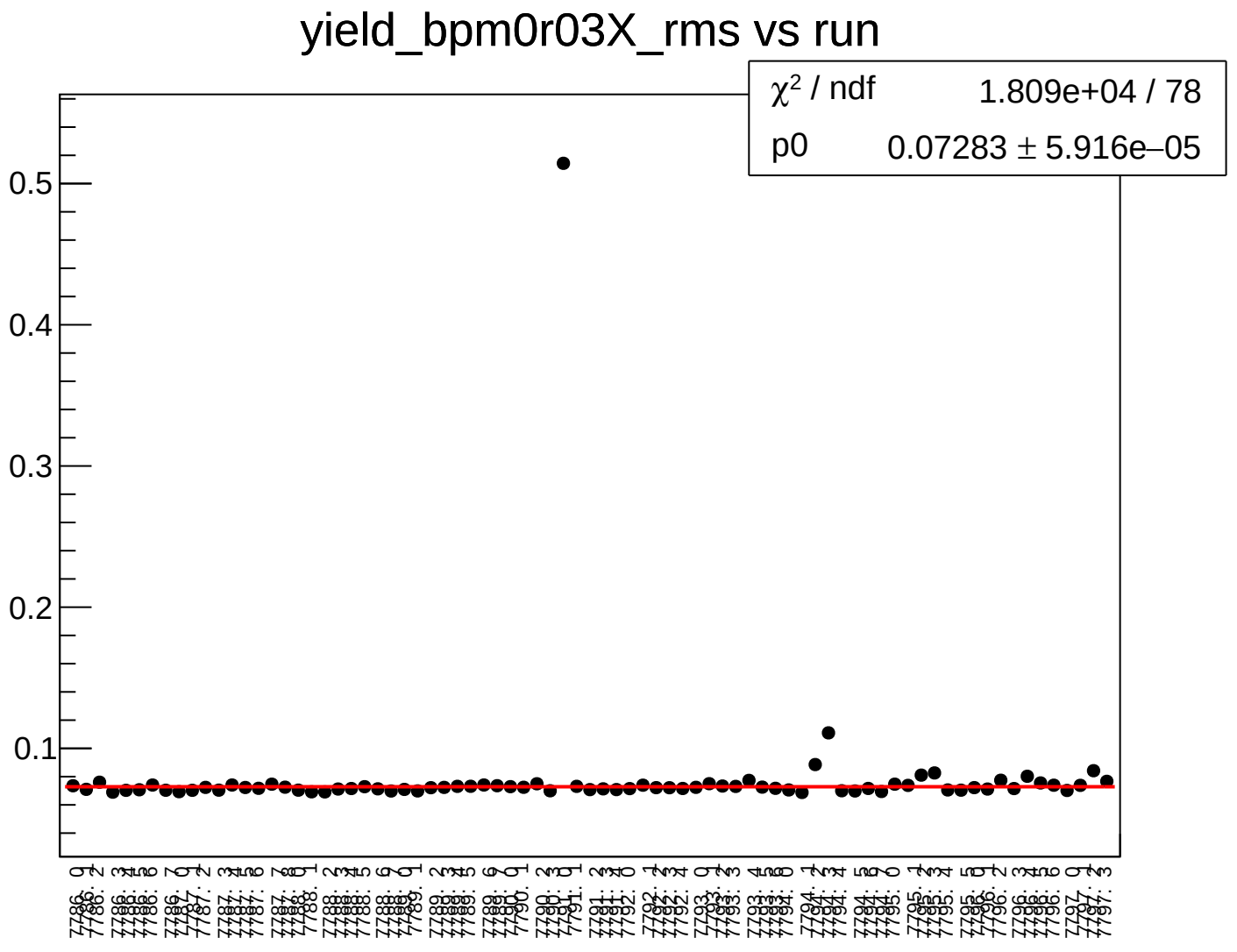

yield_bpm0l10Y_mean vs run
χ² / ndf 2.211e+06 / 78
p0 −0.1748 ± 4.754e−06
−0.16
−0.165
−0.17
−0.175
−0.18
−0.185
−0.19
−0.195
pull
Entries 79
Mean −421.1
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

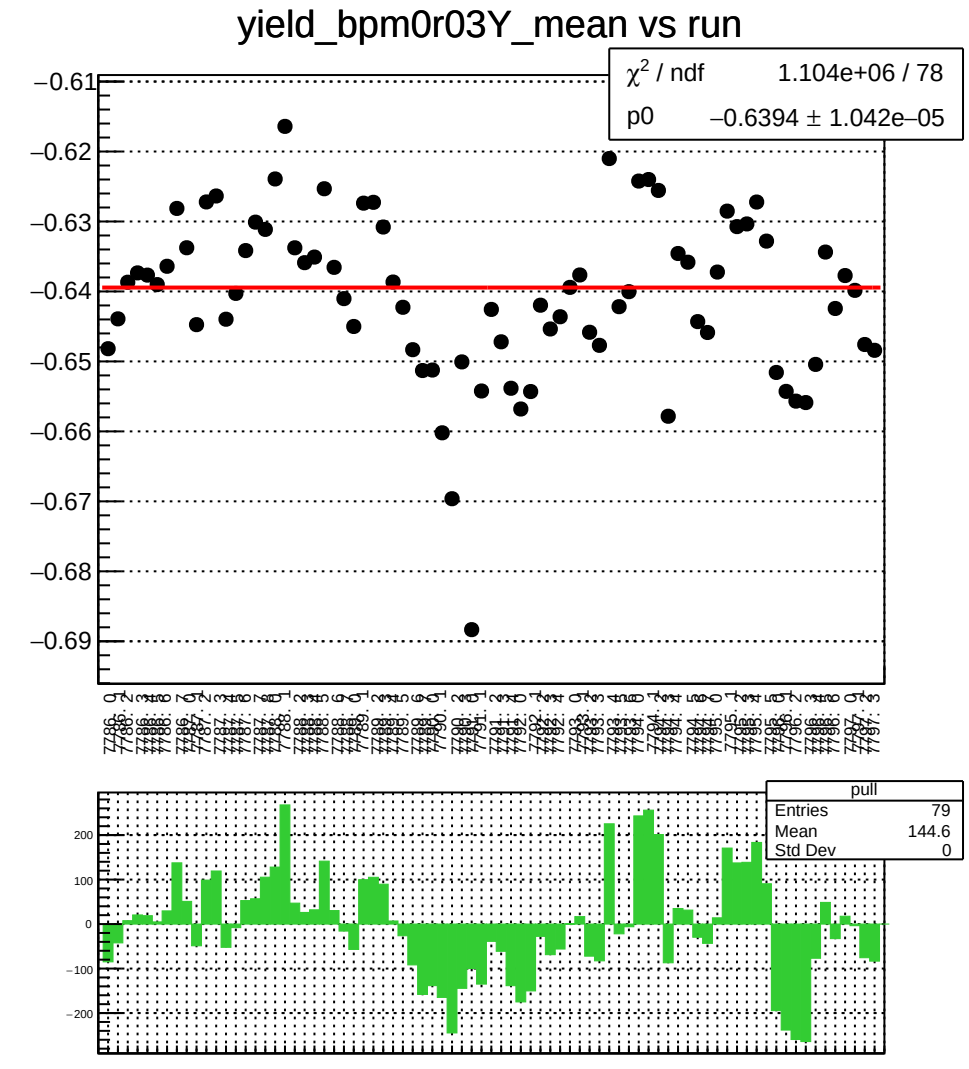

pull1D
Entries 79
Mean 1.317
Std Dev 6.543
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

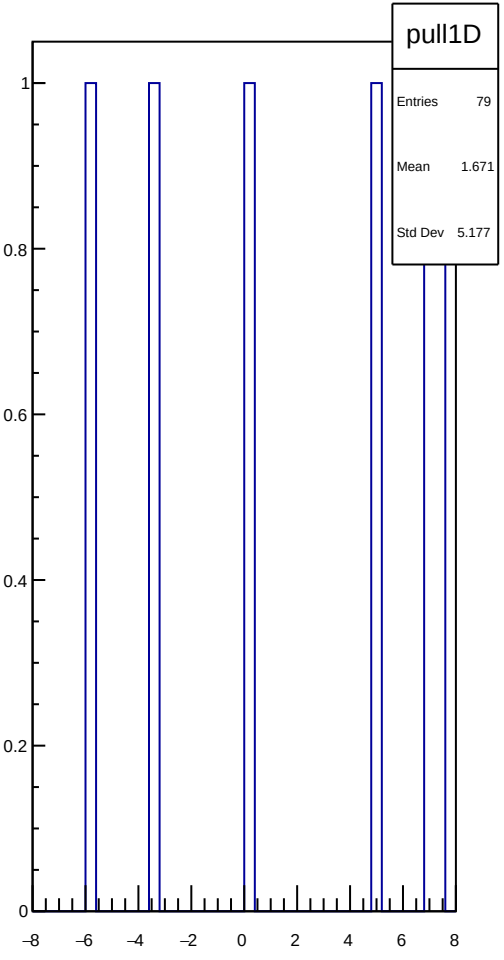

yield_bpm0l10Y_rms vs run
χ^2 / ndf 7.979e+04 / 78
p0 0.004054 ± 3.362e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

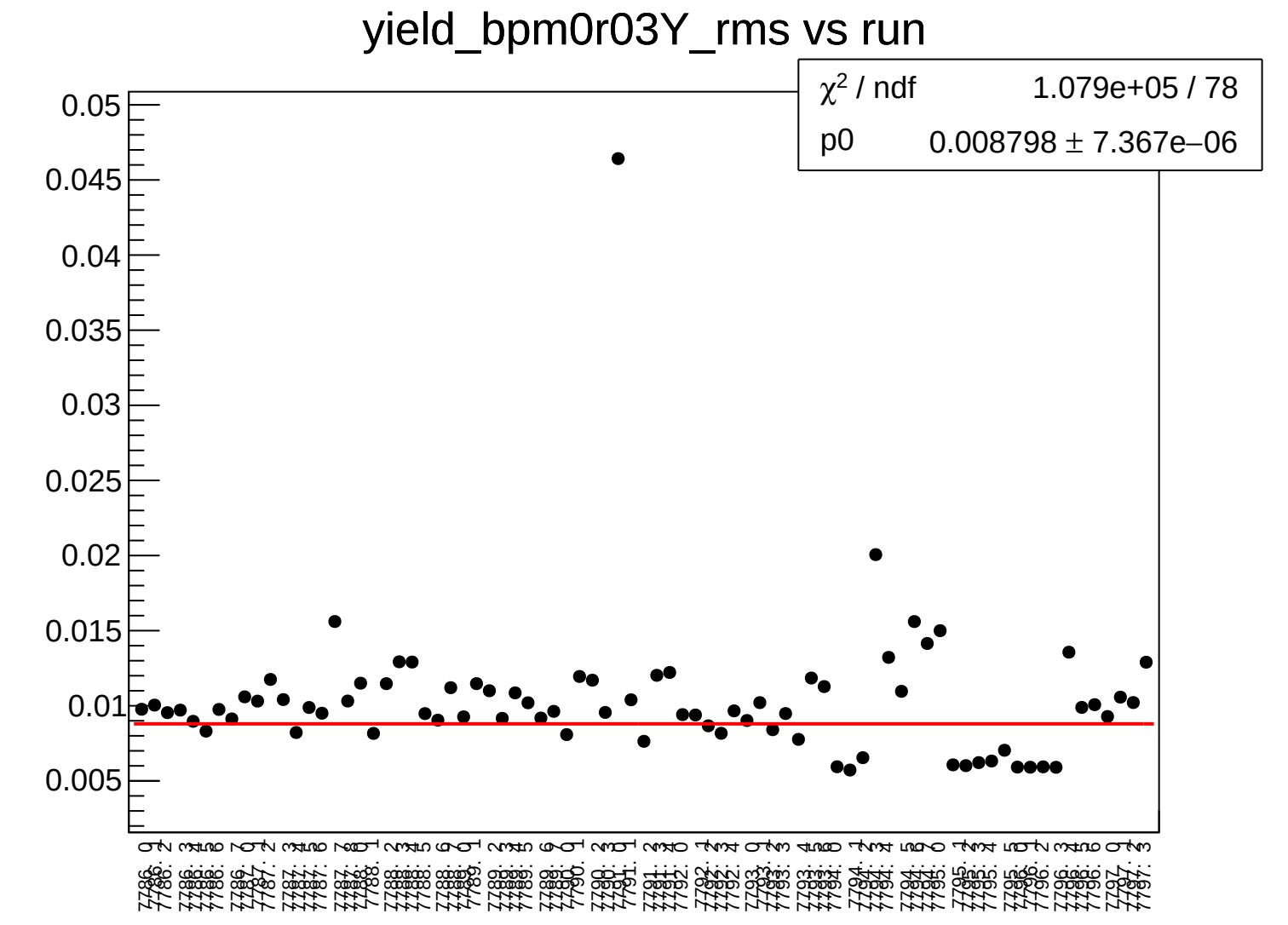

yield_bpm0r03X_mean vs run
χ² / ndf 6.755e+05 / 78
p0 −3.112 ± 8.366e−05
−2.8
−2.9
−3
−3.1
−3.2
pull
Entries 79
Mean 559.4
Std Dev 0
250
200
150
100
50
0
−50
−100

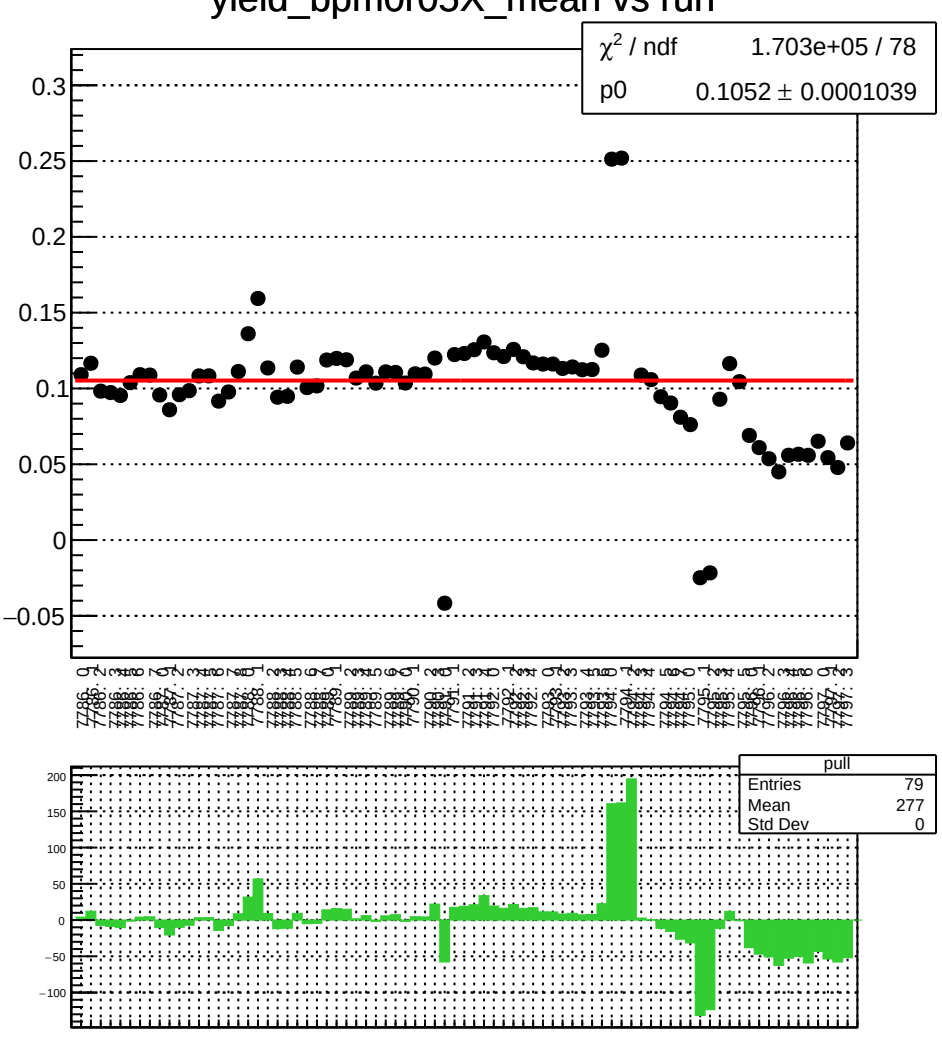

pull1D
Entries 79
Mean 1.893
Std Dev 4.205
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

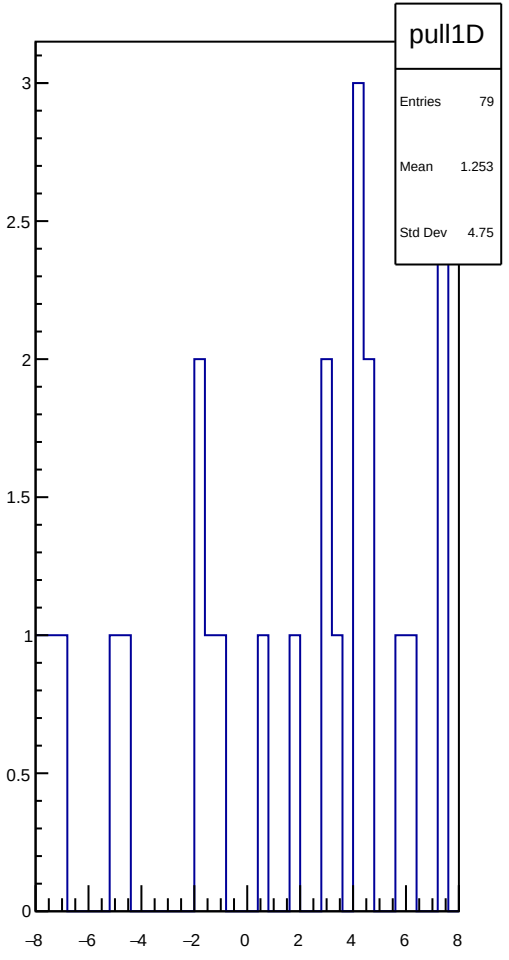

yield_bpm0r03X_rms vs run
χ² / ndf 1.809e+04 / 78
p0 0.07283 ± 5.916e–05
0.5
0.4
0.3
0.2
0.1

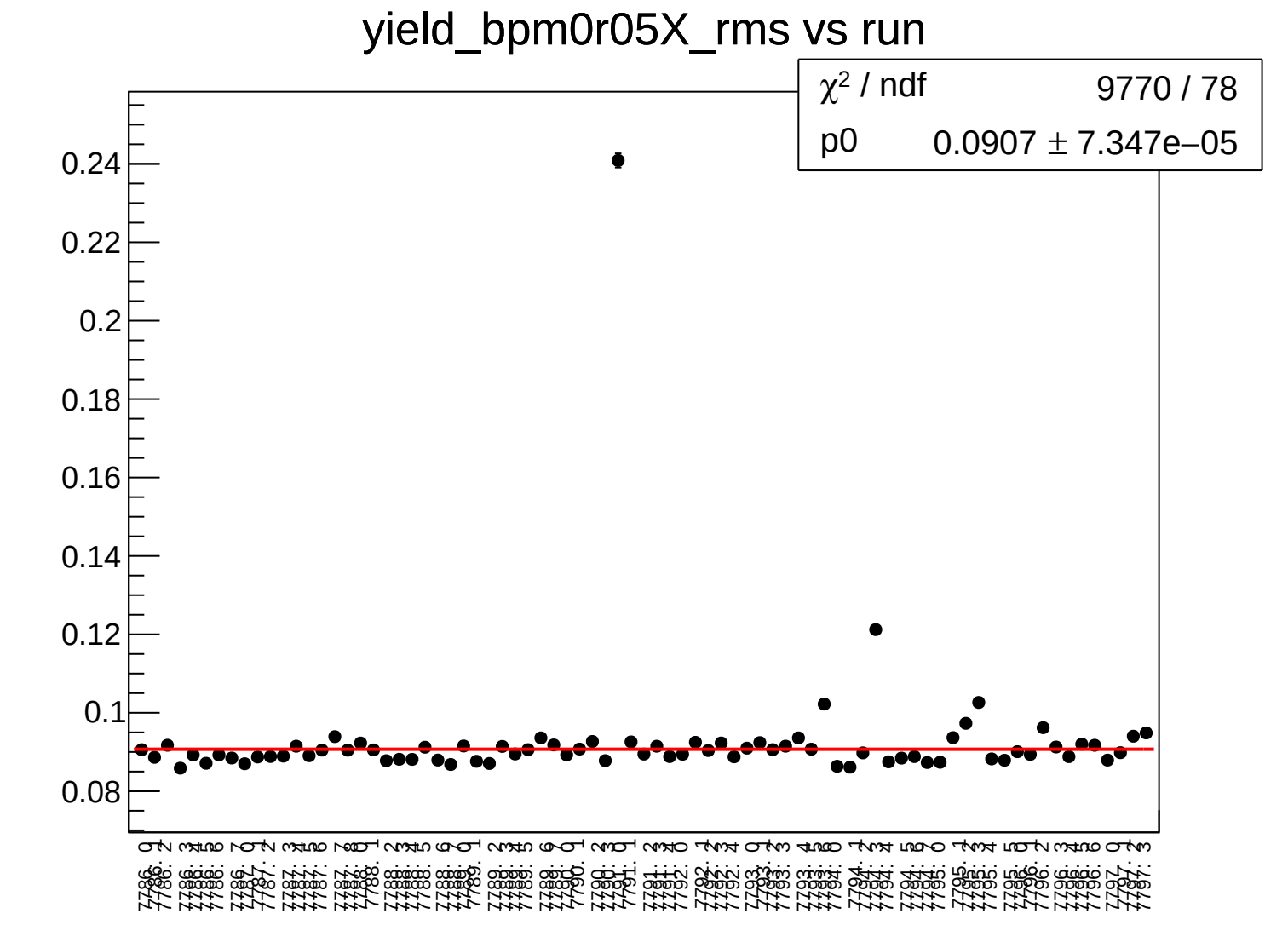

yield_bpm0r03Y_mean vs run
χ² / ndf 1.104e+06 / 78
p0 −0.6394 ± 1.042e−05
−0.61
−0.62
−0.63
−0.64
−0.65
−0.66
−0.67
−0.68
−0.69
pull
Entries 79
Mean 144.6
Std Dev 0
200
100
0
−100
−200

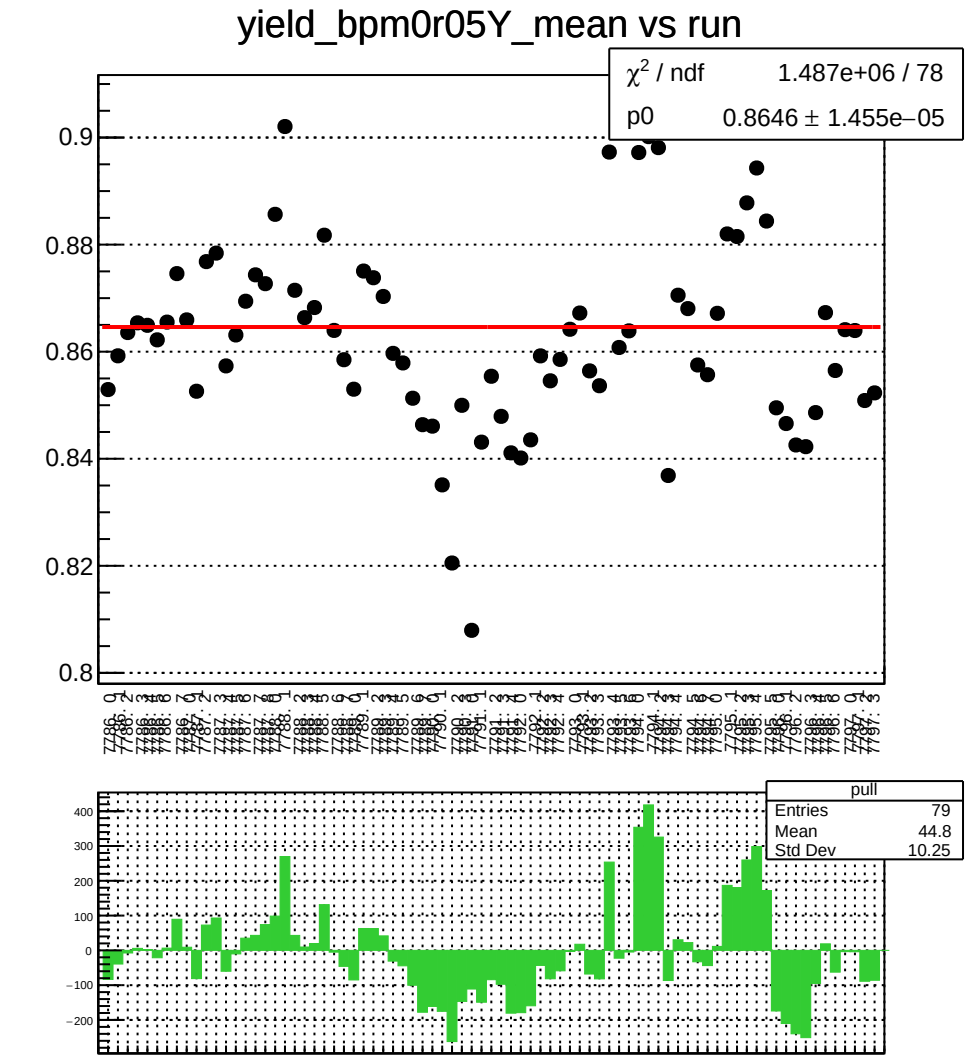

pull1D
Entries 79
Mean 1.671
Std Dev 5.177
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

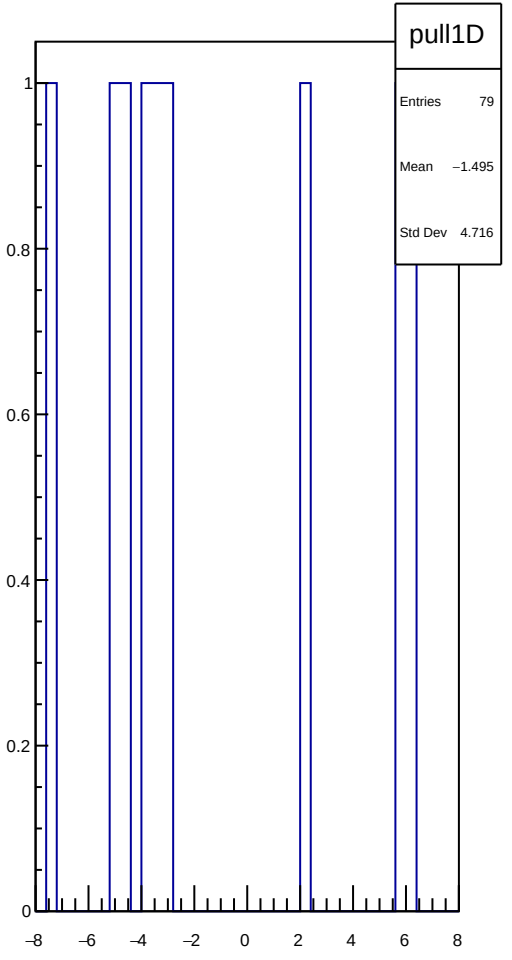

yield_bpm0r03Y_rms vs run
χ^2 / ndf 1.079e+05 / 78
p0 0.008798 ± 7.367e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

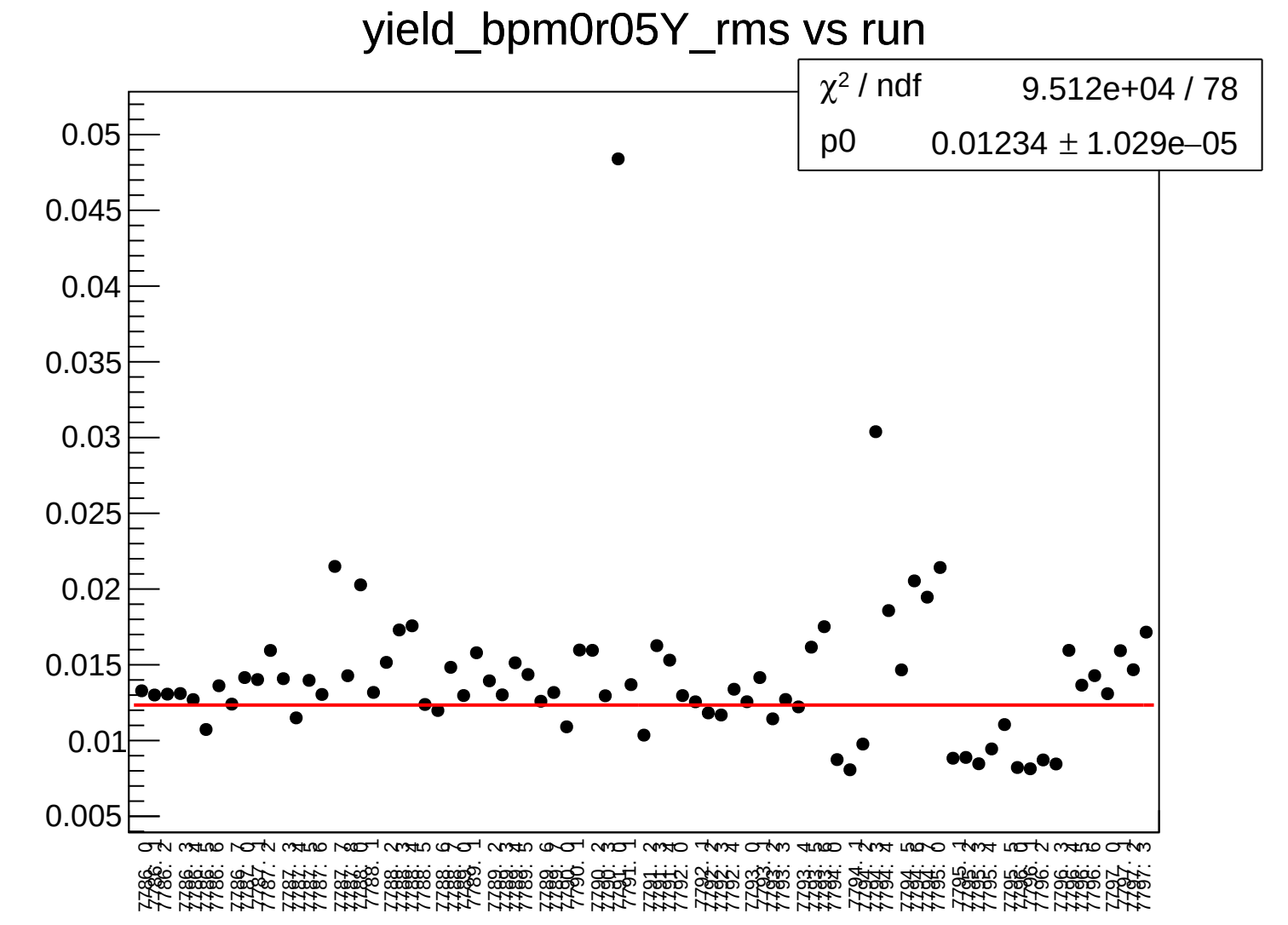

yield_bpm0r05X_mean vs run
χ² / ndf 1.703e+05 / 78
p0 0.1052 ± 0.0001039
pull
Entries 79
Mean 277
Std Dev 0

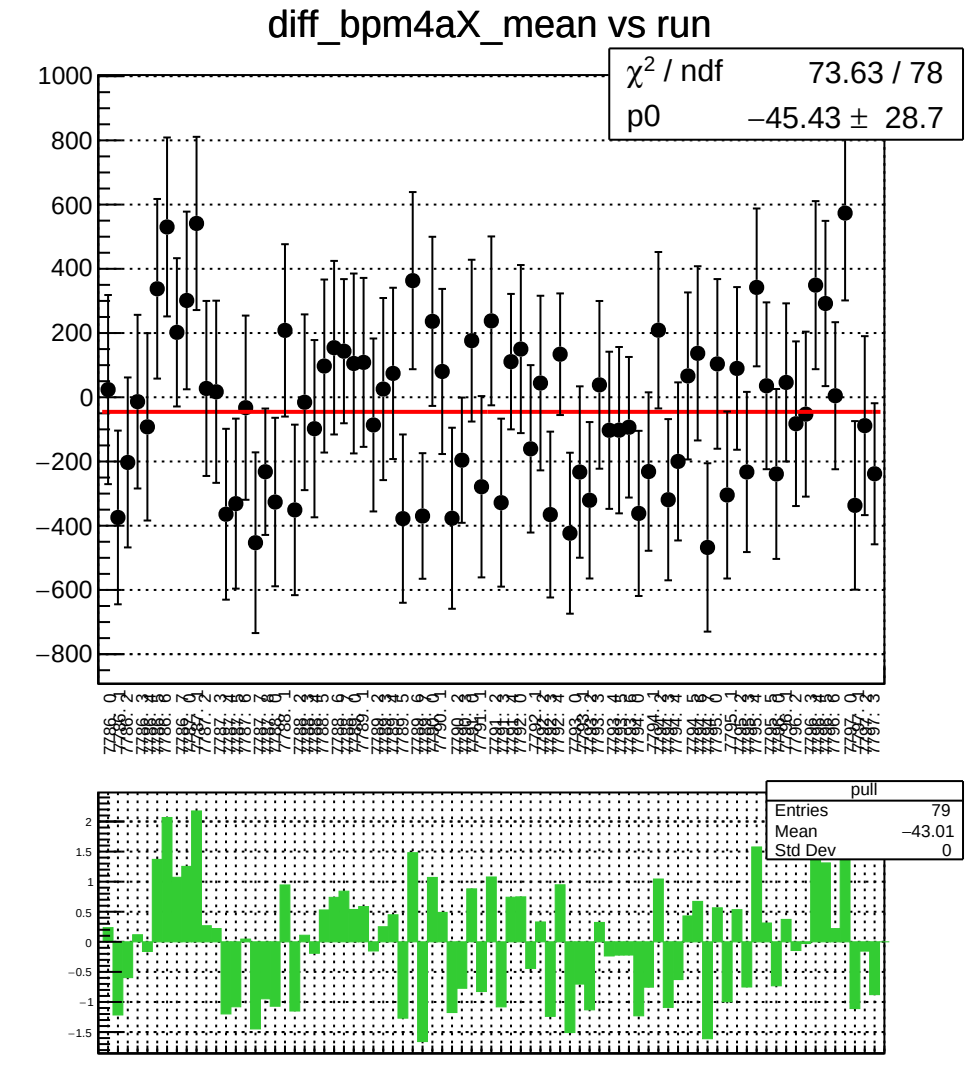

pull1D
Entries 79
Mean 1.253
Std Dev 4.75

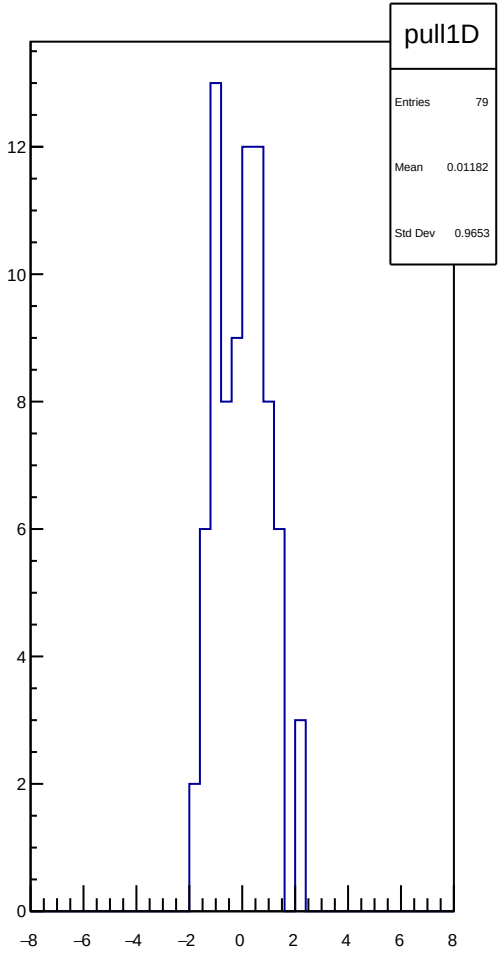

yield_bpm0r05X_rms vs run
χ² / ndf 9770 / 78
p0 0.0907 ± 7.347e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

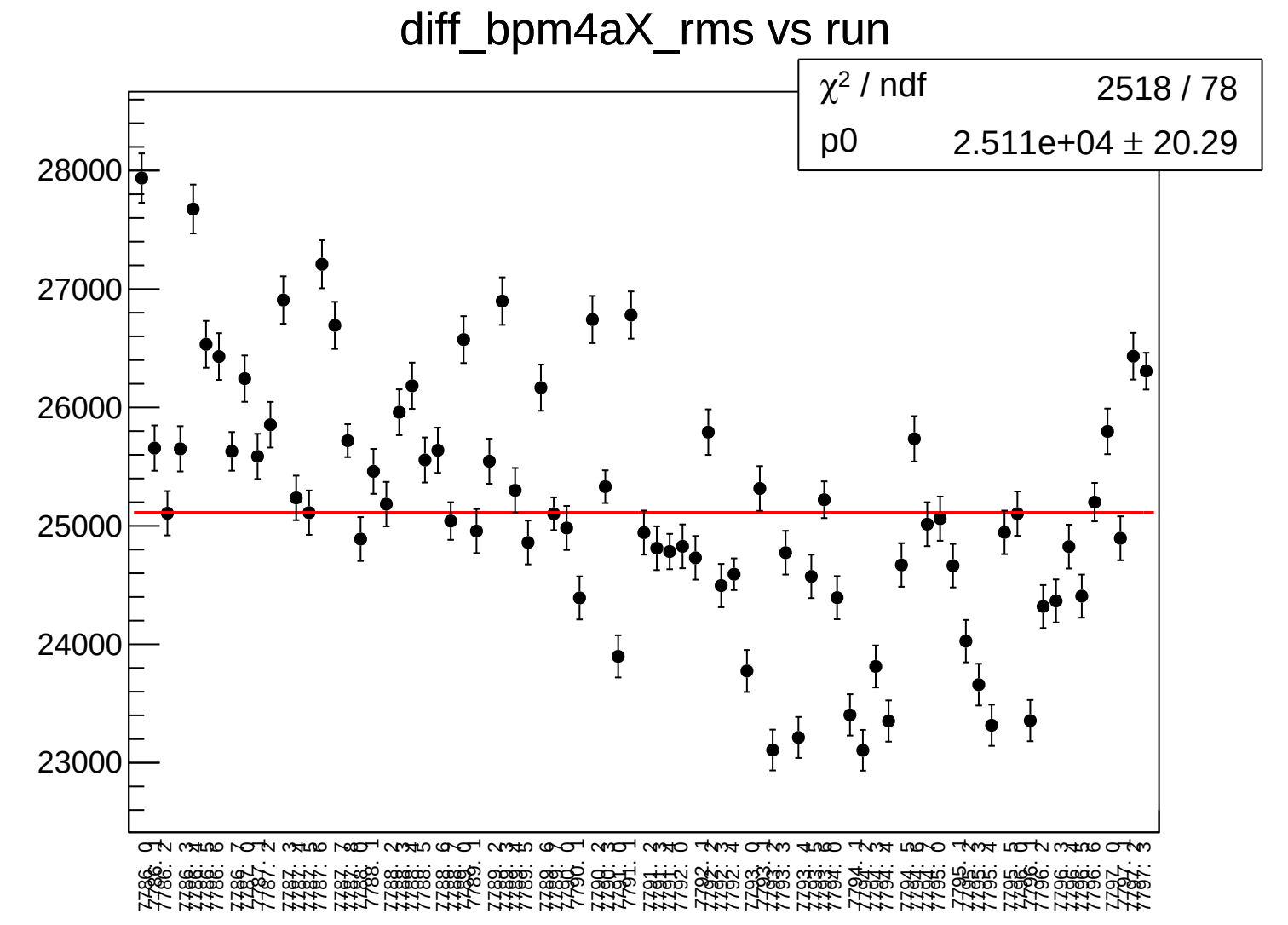

yield_bpm0r05Y_mean vs run
χ² / ndf 1.487e+06 / 78
p0 0.8646 ± 1.455e−05
0.9
0.88
0.86
0.84
0.82
0.8
pull
Entries 79
Mean 44.8
Std Dev 10.25
400
300
200
100
0
−100
−200

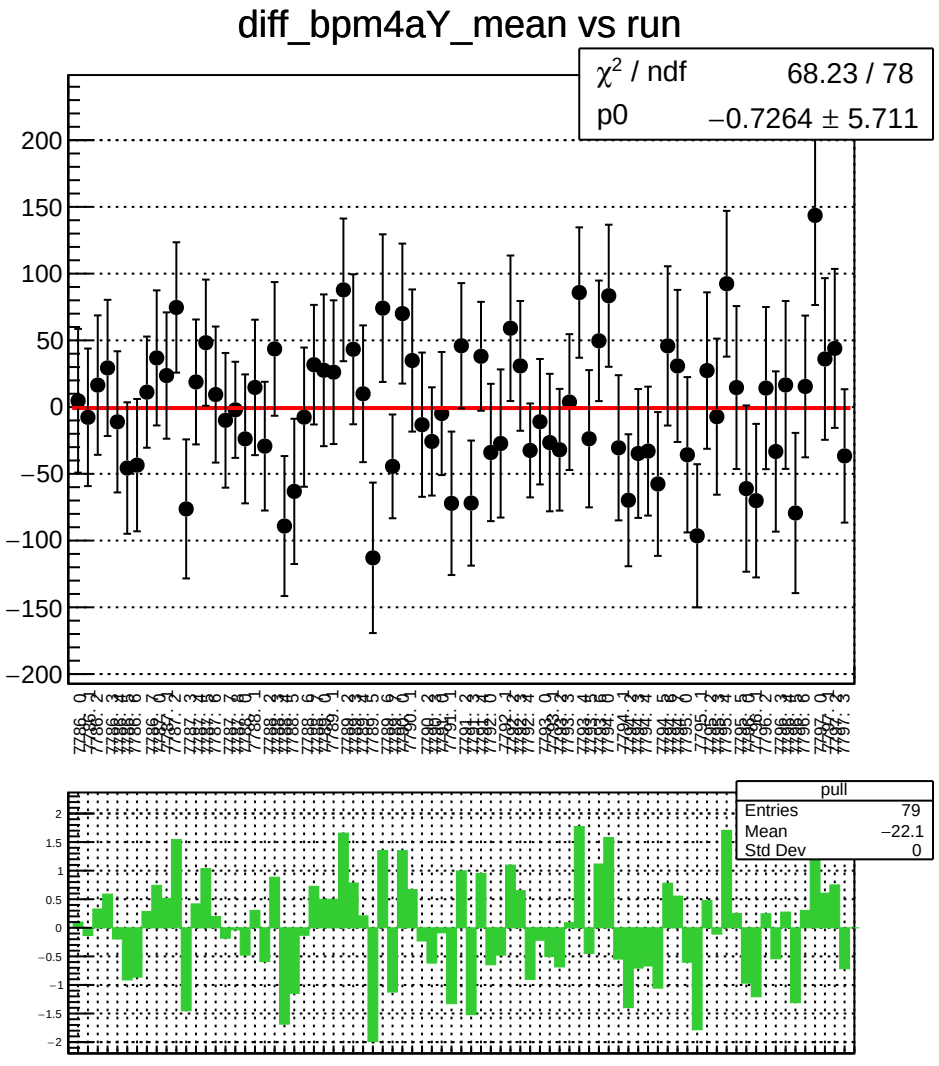

pull1D
Entries 79
Mean −1.495
Std Dev 4.716
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

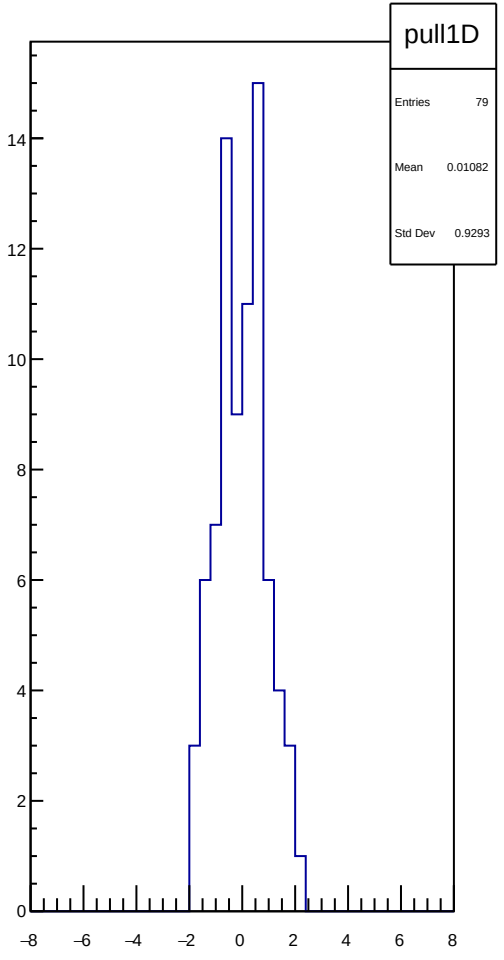

yield_bpm0r05Y_rms vs run
χ² / ndf 9.512e+04 / 78
p0 0.01234 ± 1.029e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

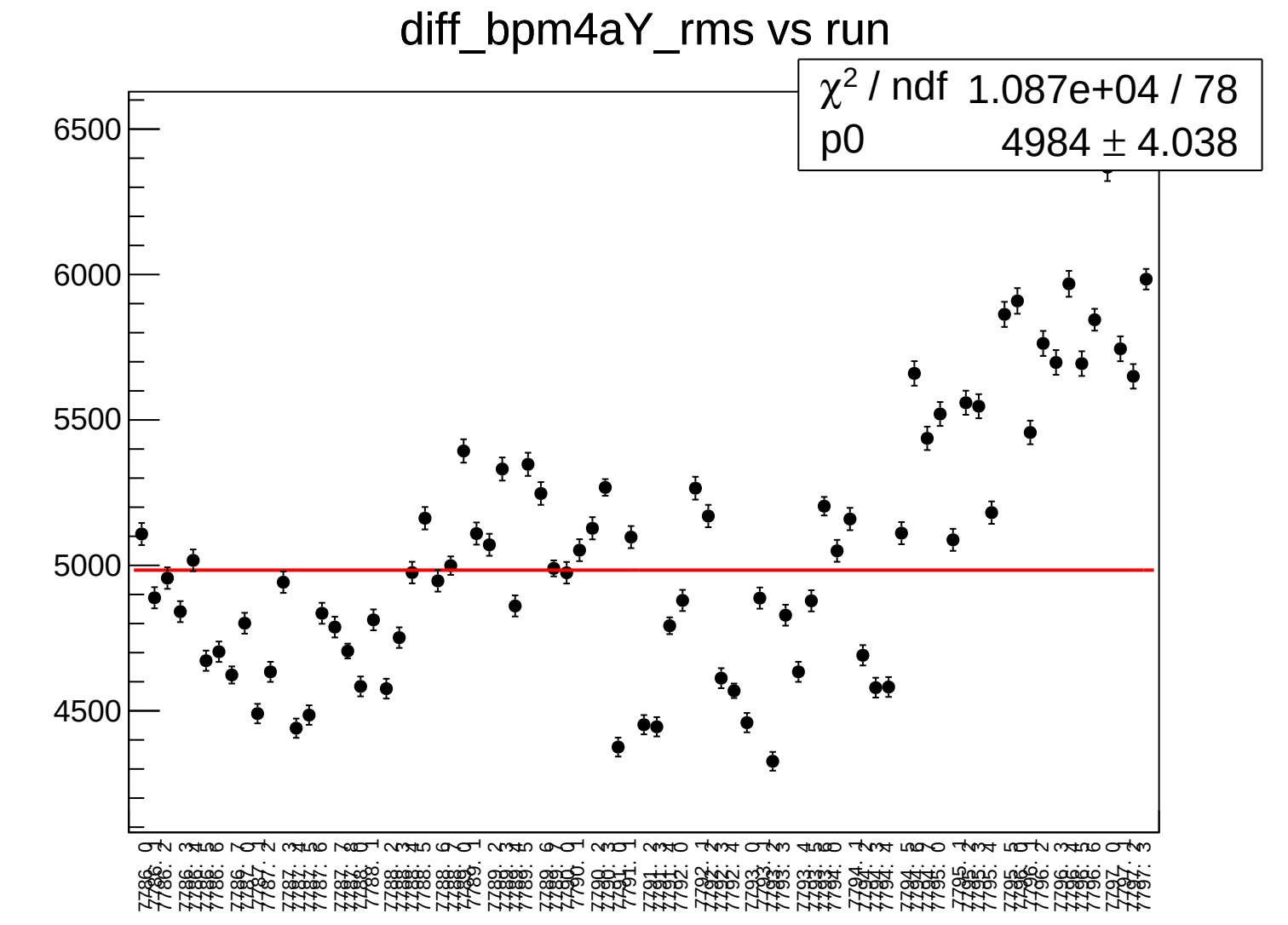

diff_bpm4aX_mean vs run
χ² / ndf 73.63 / 78
p0 −45.43 ± 28.7
pull
Entries 79
Mean −43.01
Std Dev 0

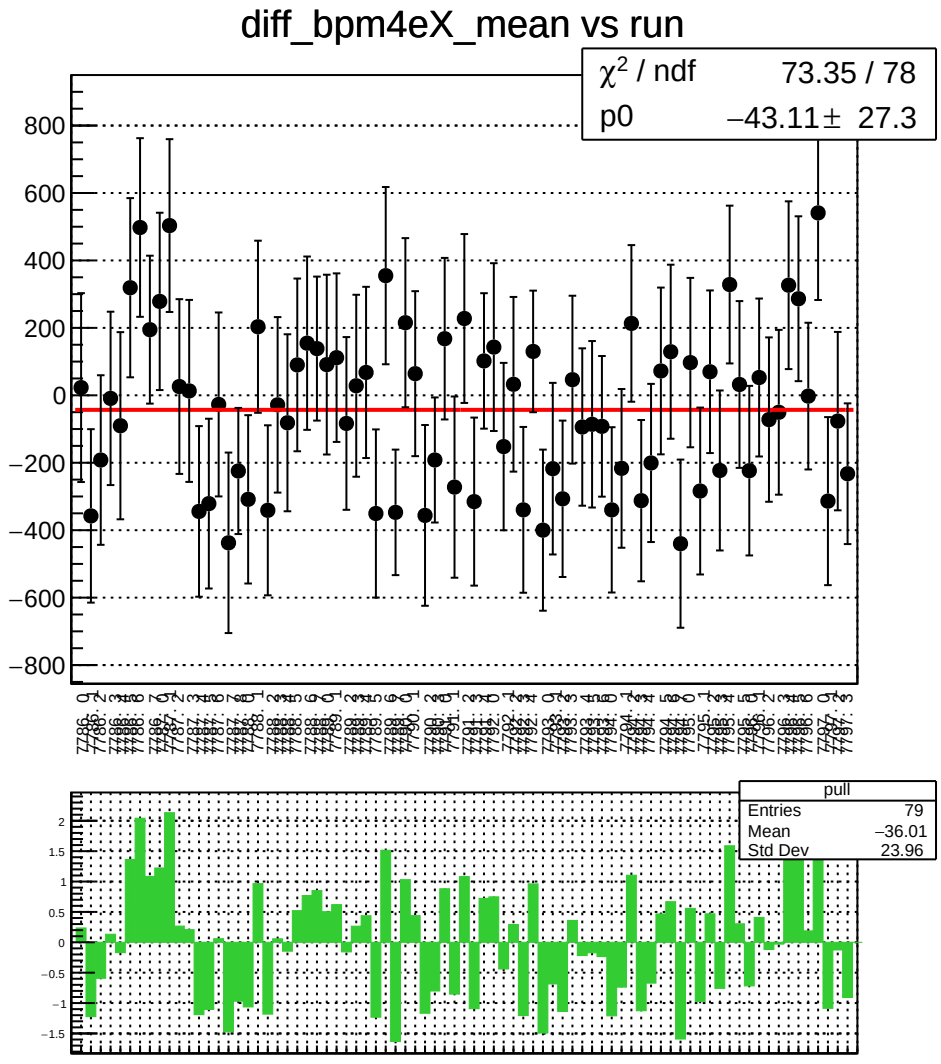

pull1D
Entries 79
Mean 0.01182
Std Dev 0.9653

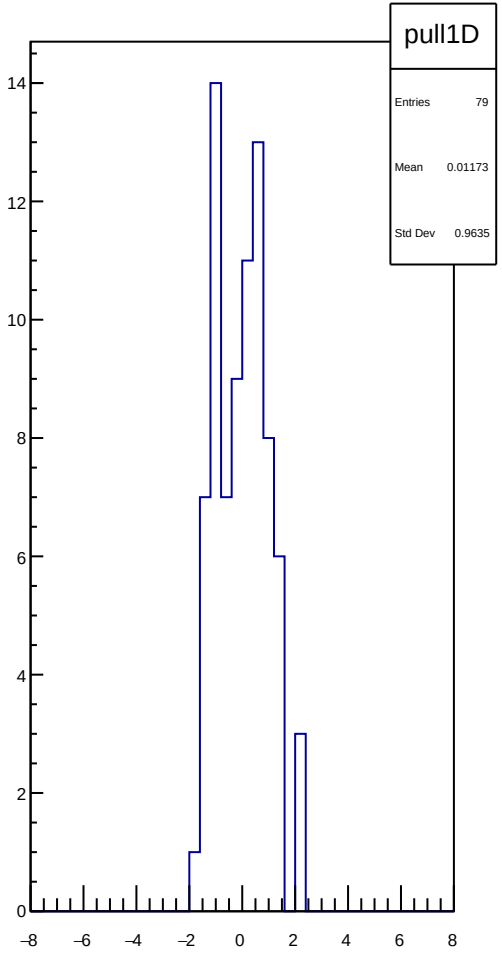

diff_bpm4aX_rms vs run
χ² / ndf 2518 / 78
p0 2.511e+04 ± 20.29
28000
27000
26000
25000
24000
23000

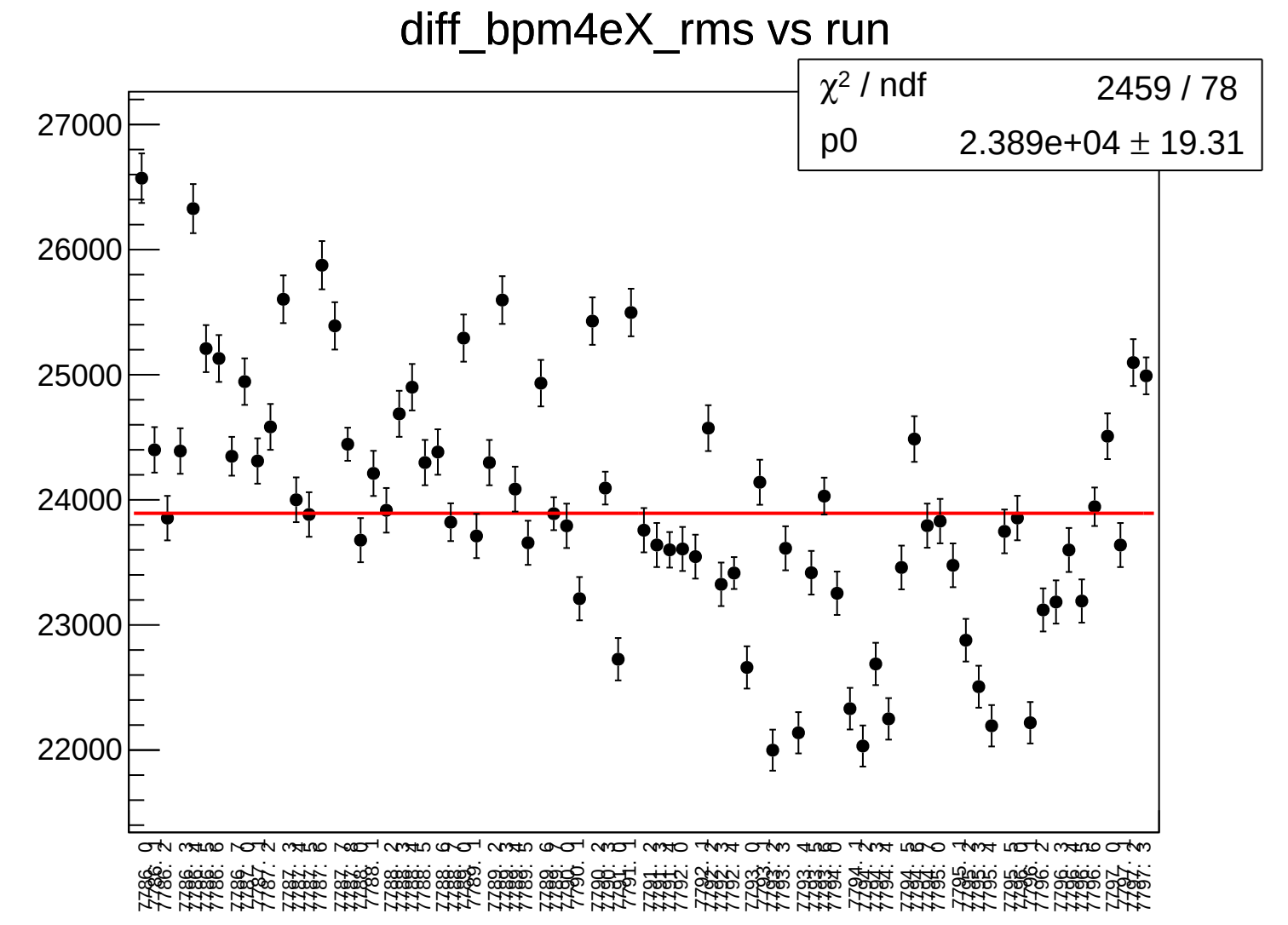

diff_bpm4aY_mean vs run
χ^2 / ndf 68.23 / 78
p0 −0.7264 ± 5.711
pull
Entries 79
Mean −22.1
Std Dev 0

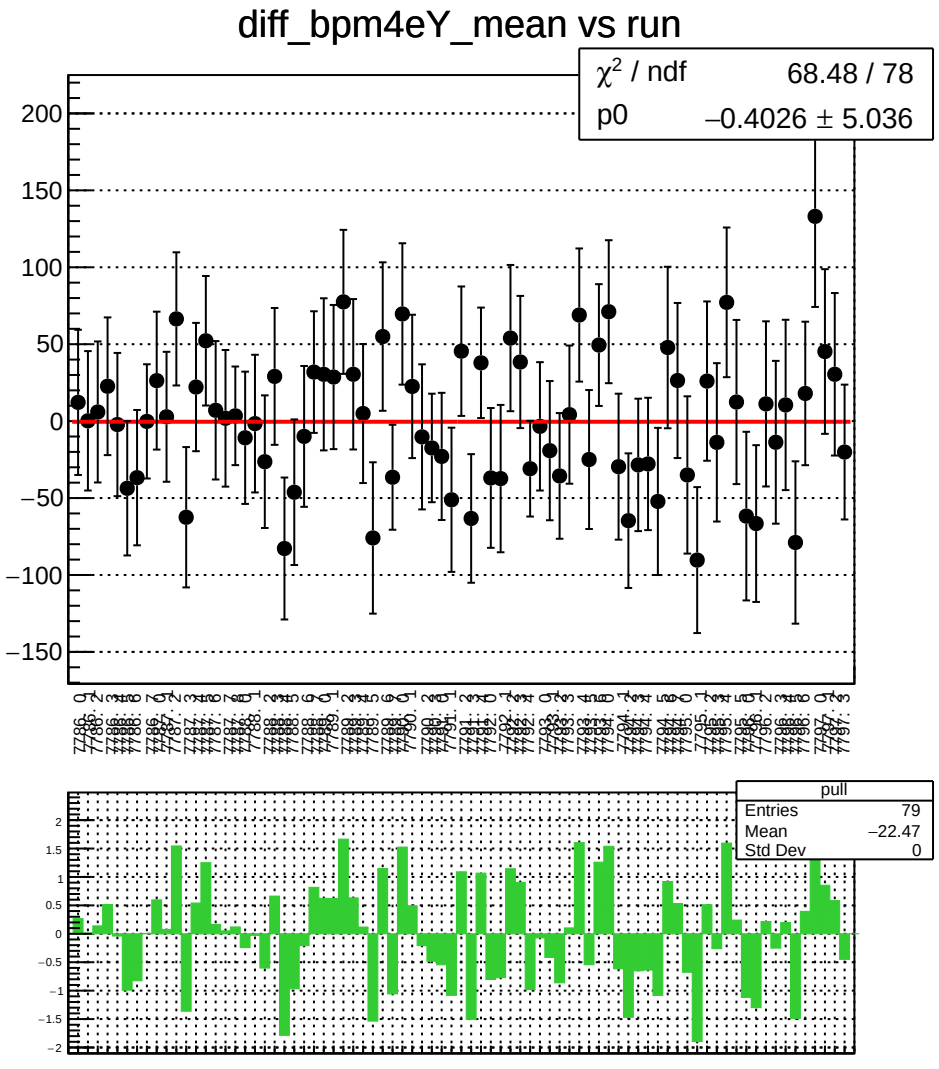

pull1D
Entries 79
Mean 0.01082
Std Dev 0.9293

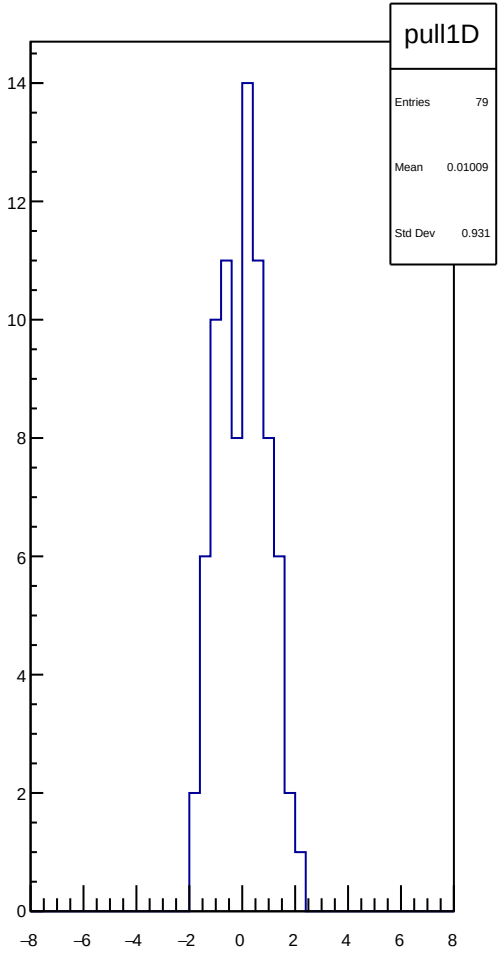

diff_bpm4aY_rms vs run
χ² / ndf 1.087e+04 / 78
p0 4984 ± 4.038
6500
6000
5500
5000
4500

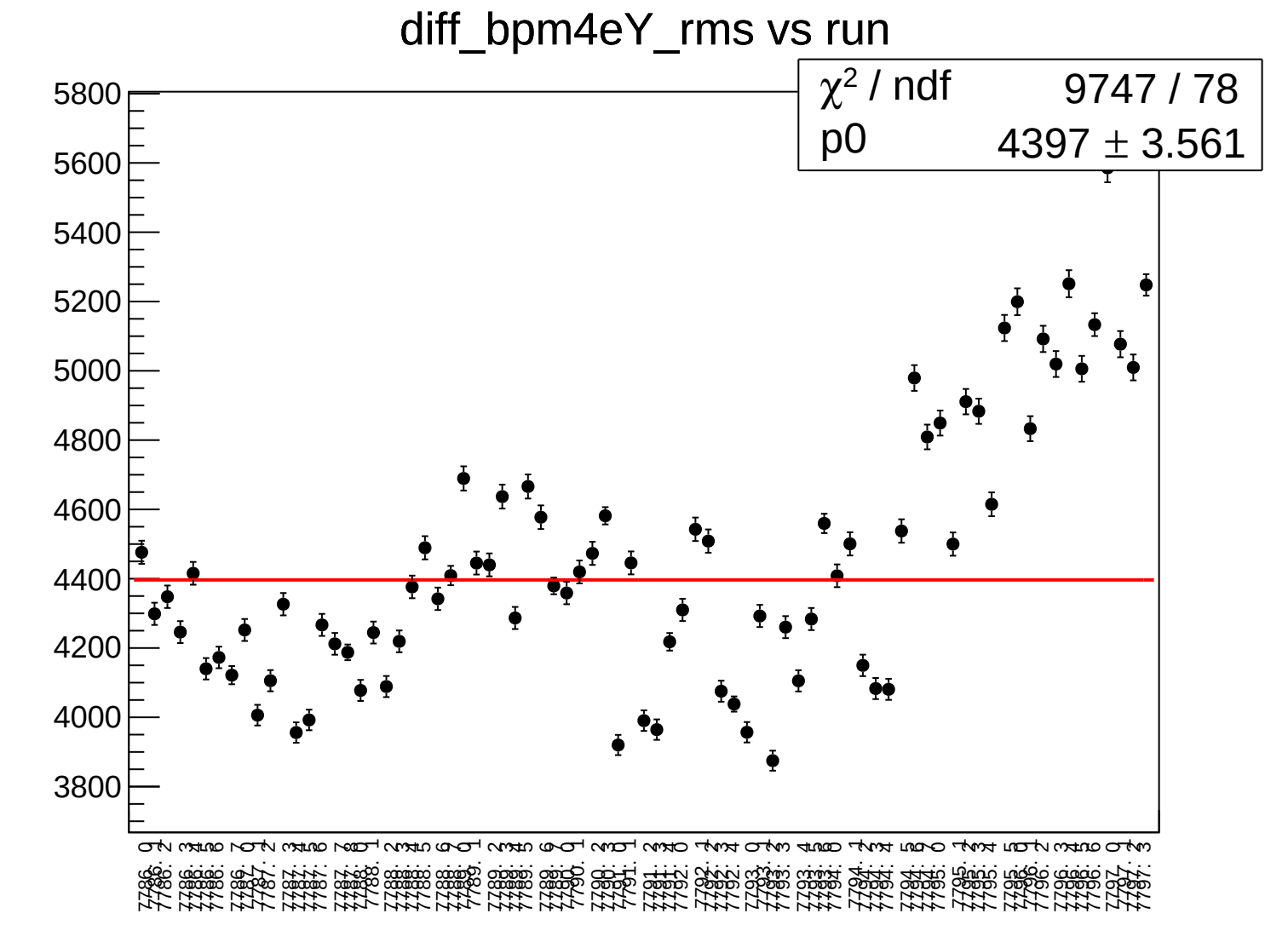

diff_bpm4eX_mean vs run
χ² / ndf 73.35 / 78
p0 −43.11 ± 27.3
pull
Entries 79
Mean −36.01
Std Dev 23.96

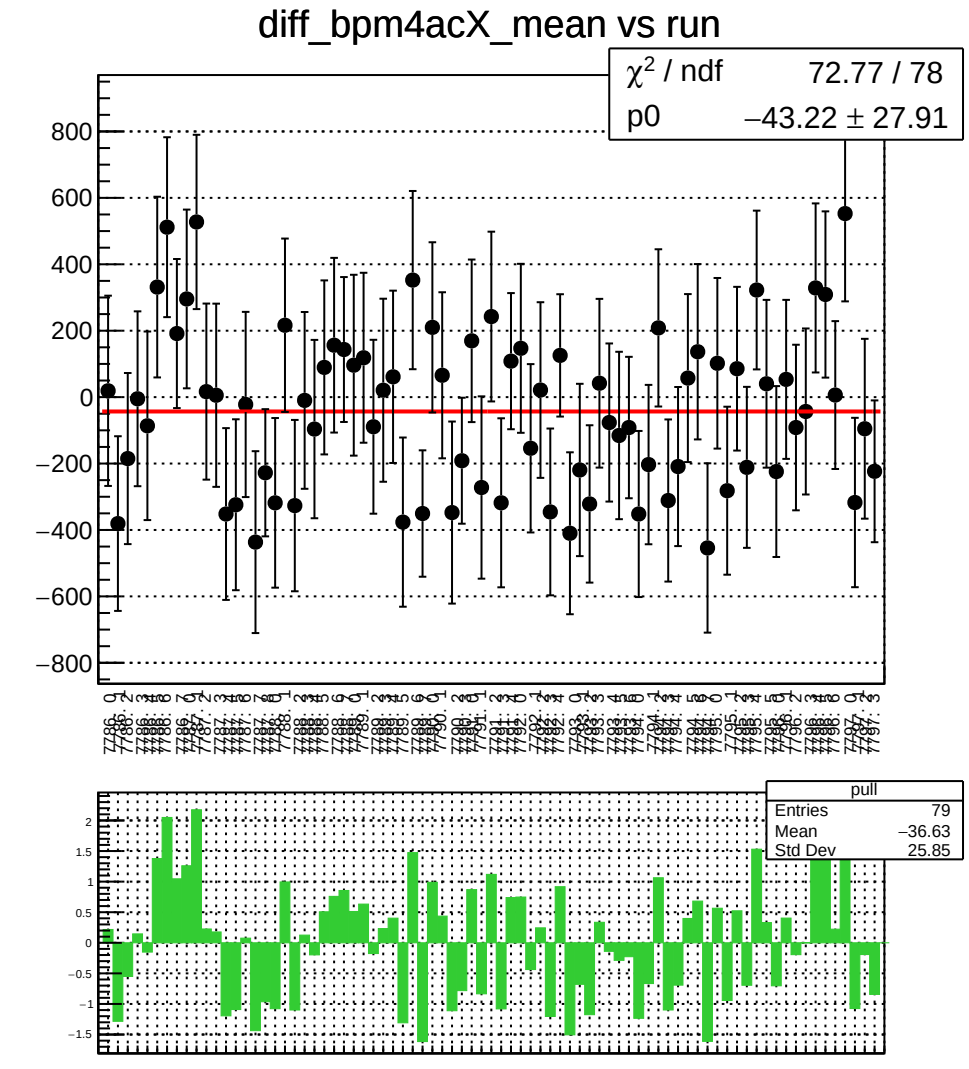

pull1D
Entries 79
Mean 0.01173
Std Dev 0.9635

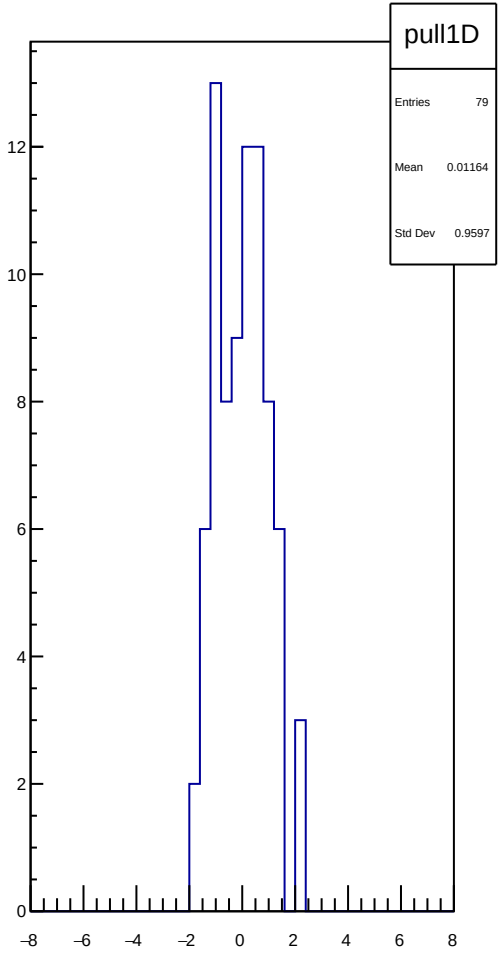

diff_bpm4eX_rms vs run
χ² / ndf 2459 / 78
p0 2.389e+04 ± 19.31
27000
26000
25000
24000
23000
22000

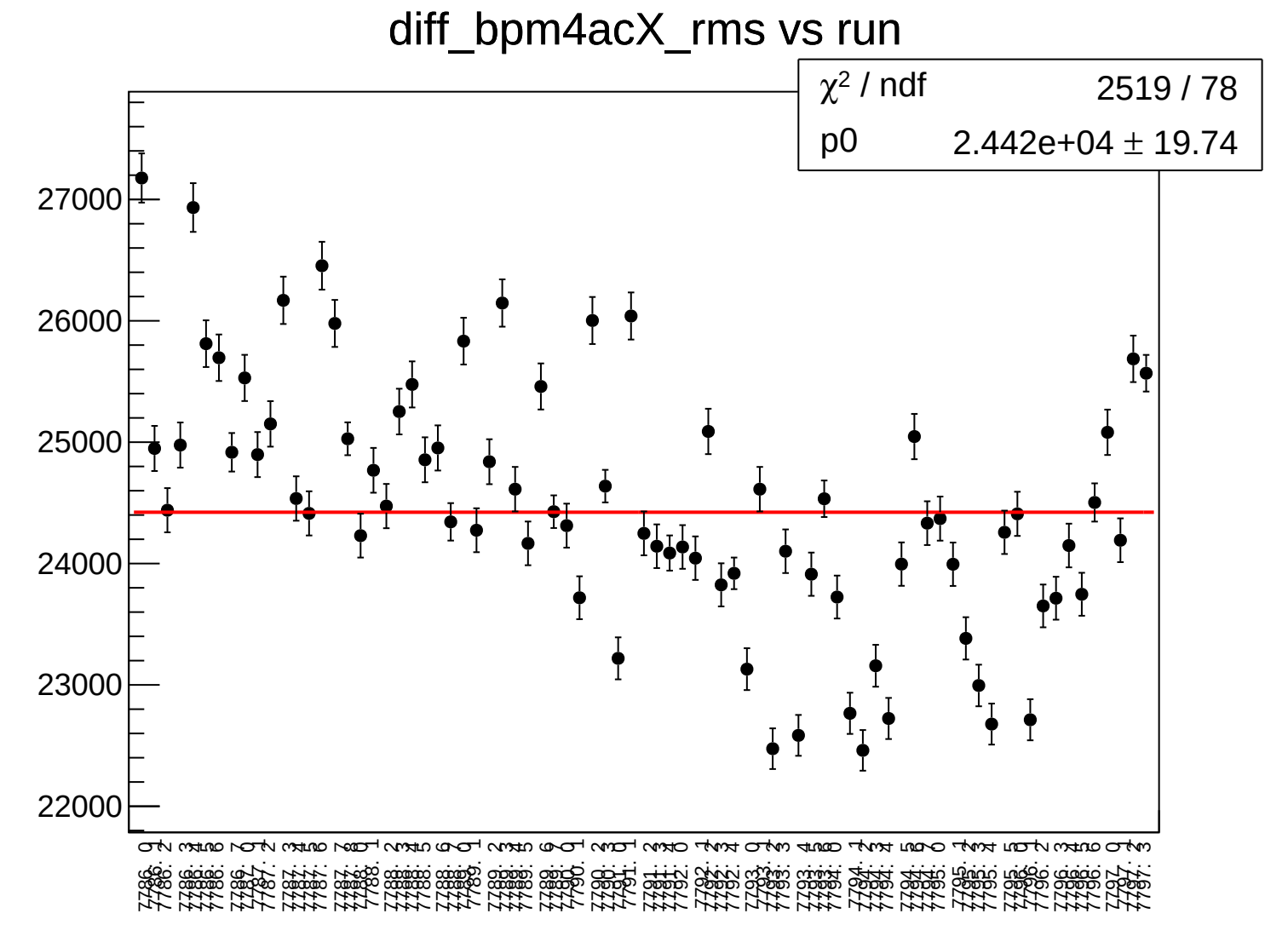

diff_bpm4eY_mean vs run
χ^2 / ndf 68.48 / 78
p0 −0.4026 ± 5.036
pull
Entries 79
Mean −22.47
Std Dev 0

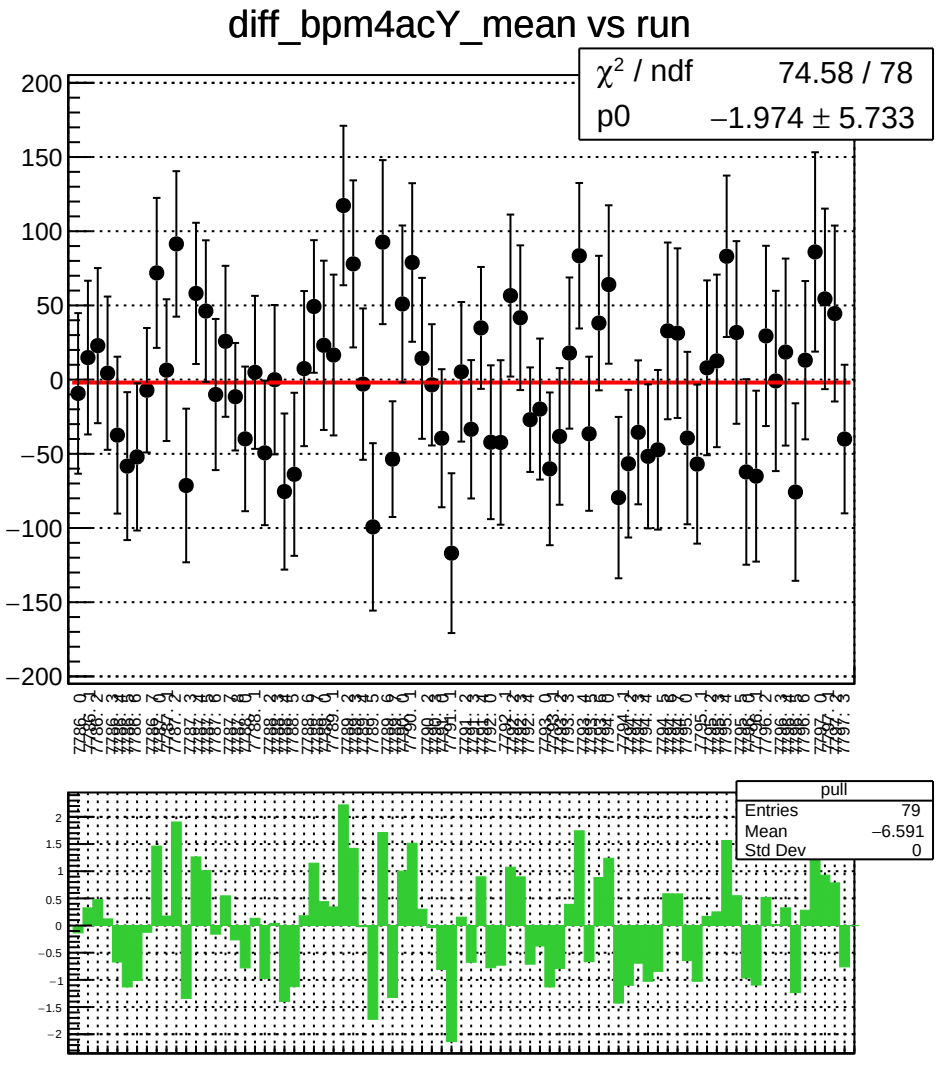

pull1D
Entries 79
Mean 0.01009
Std Dev 0.931

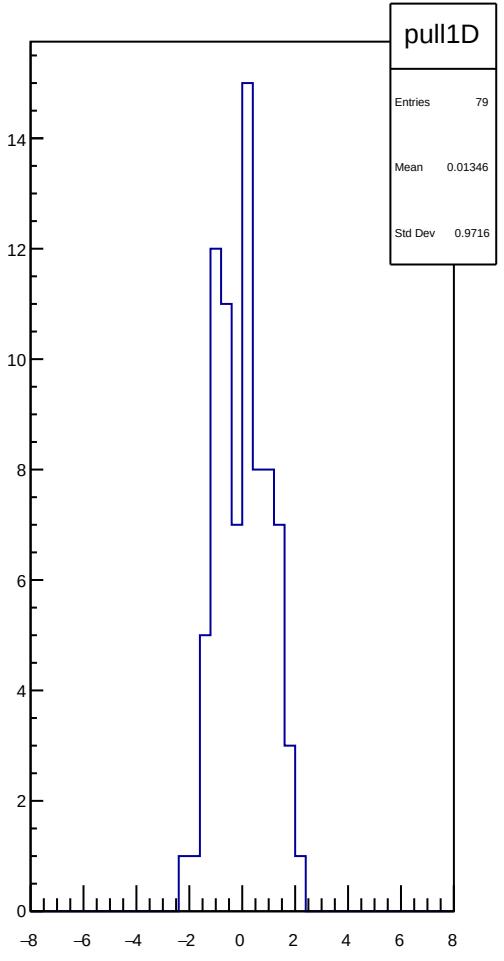

diff_bpm4eY_rms vs run
χ² / ndf 9747 / 78
p0 4397 ± 3.561
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

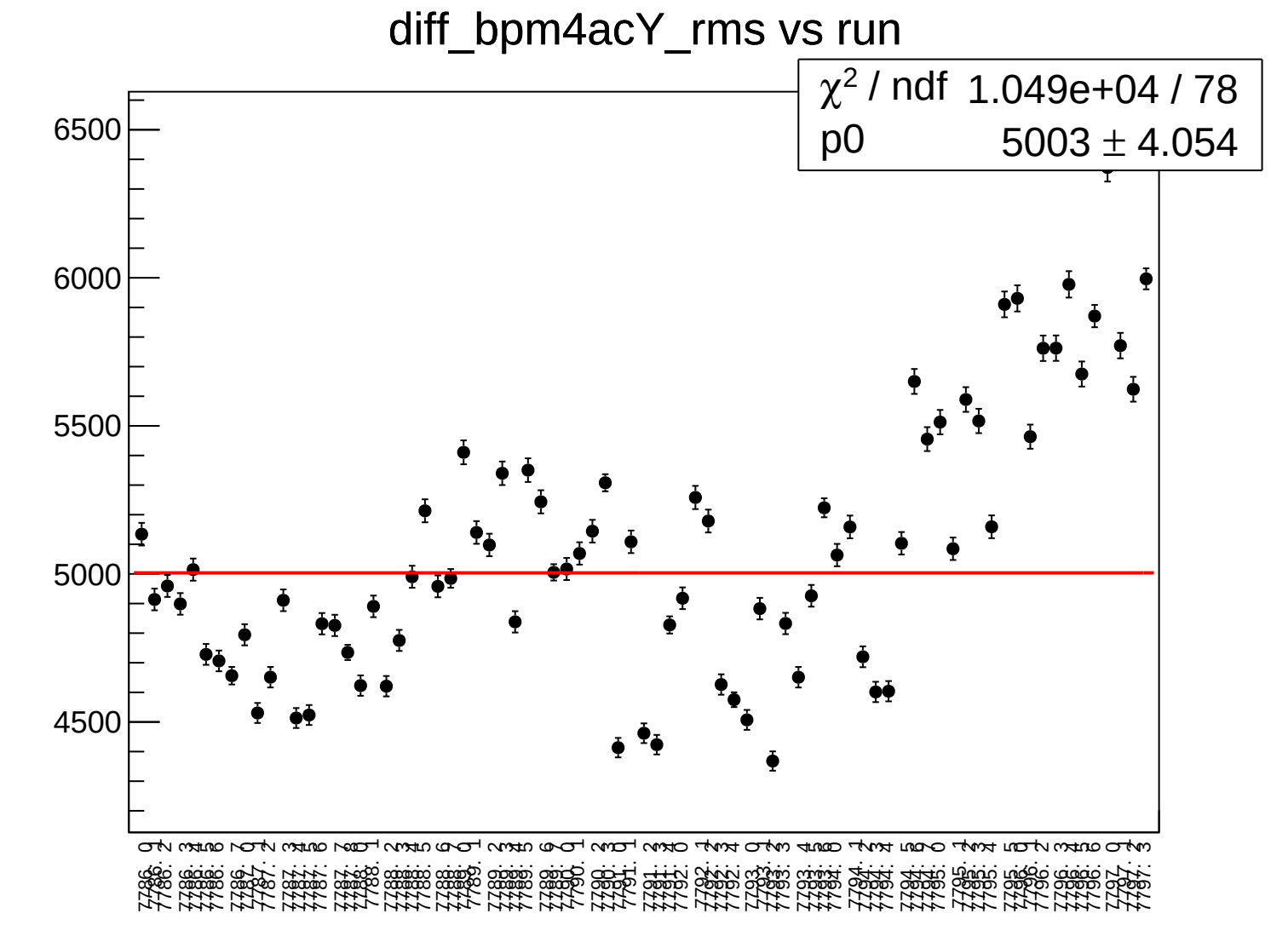

diff_bpm4acX_mean vs run
χ² / ndf 72.77 / 78
p0 −43.22 ± 27.91
pull
Entries 79
Mean −36.63
Std Dev 25.85

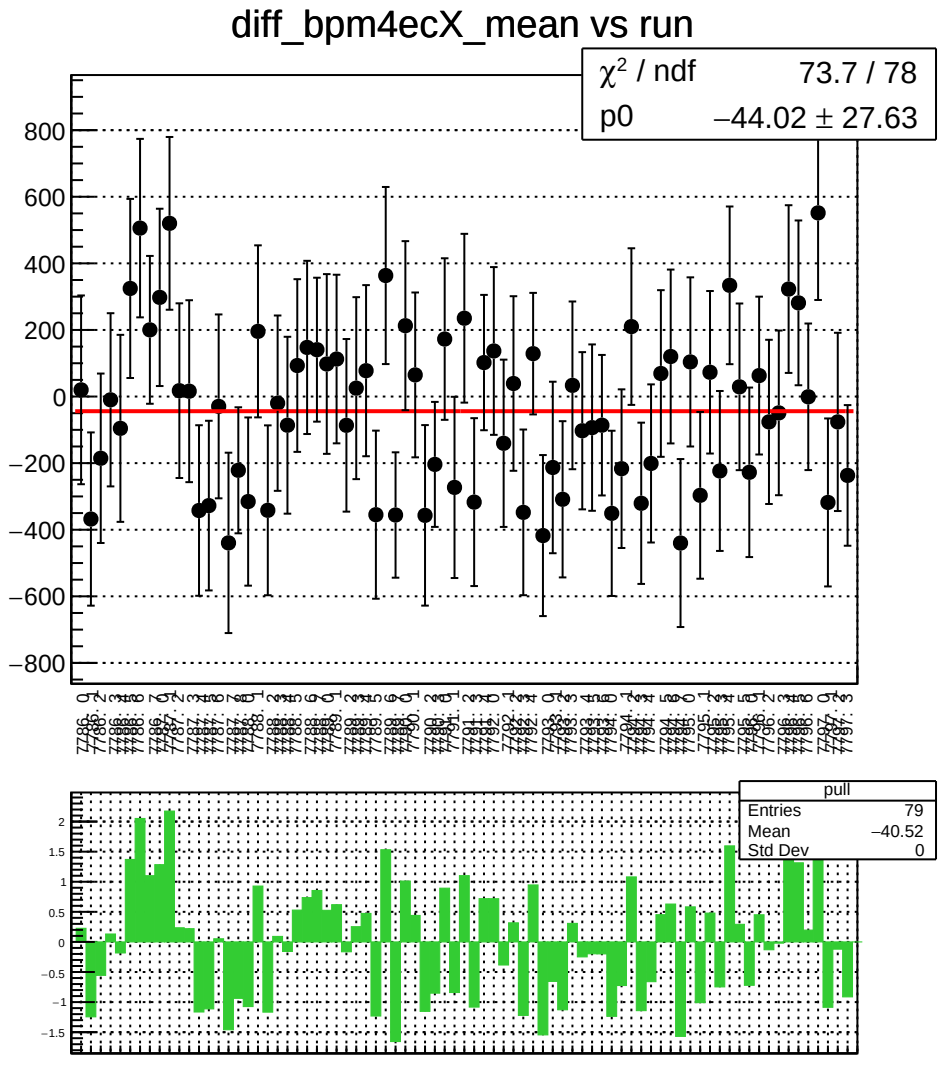

pull1D
Entries 79
Mean 0.01164
Std Dev 0.9597

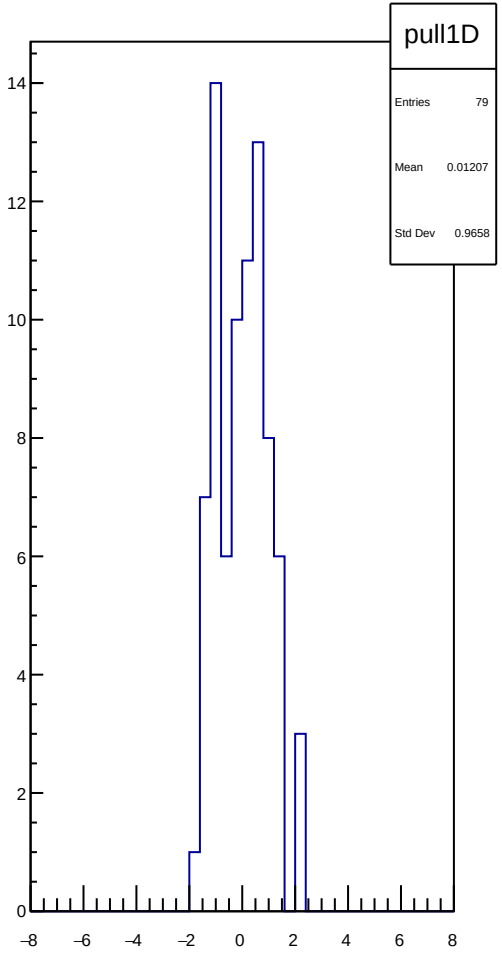

diff_bpm4acX_rms vs run
χ² / ndf 2519 / 78
p0 2.442e+04 ± 19.74
27000
26000
25000
24000
23000
22000

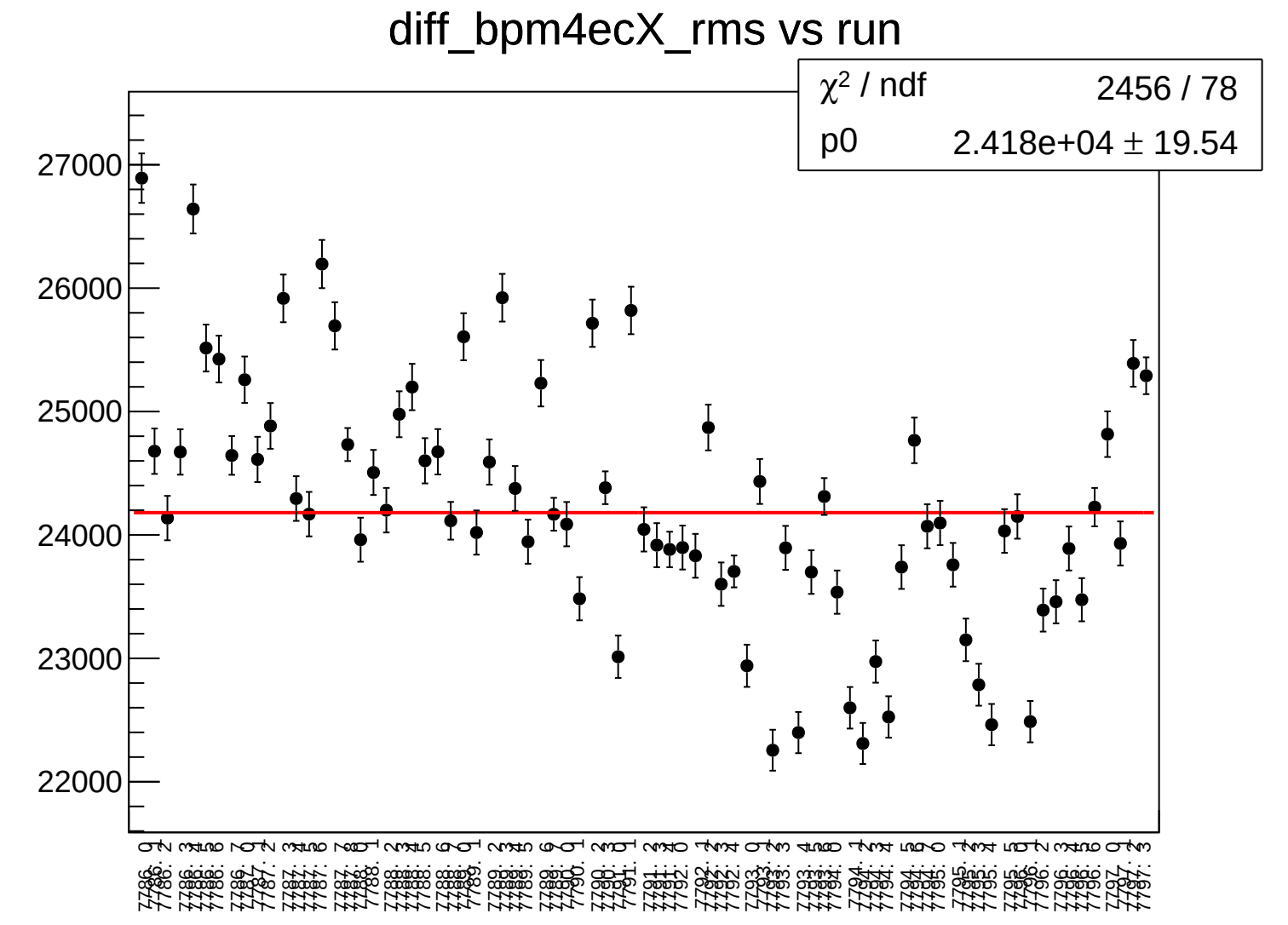

diff_bpm4acY_mean vs run
χ² / ndf 74.58 / 78
p0 −1.974 ± 5.733
pull
Entries 79
Mean −6.591
Std Dev 0

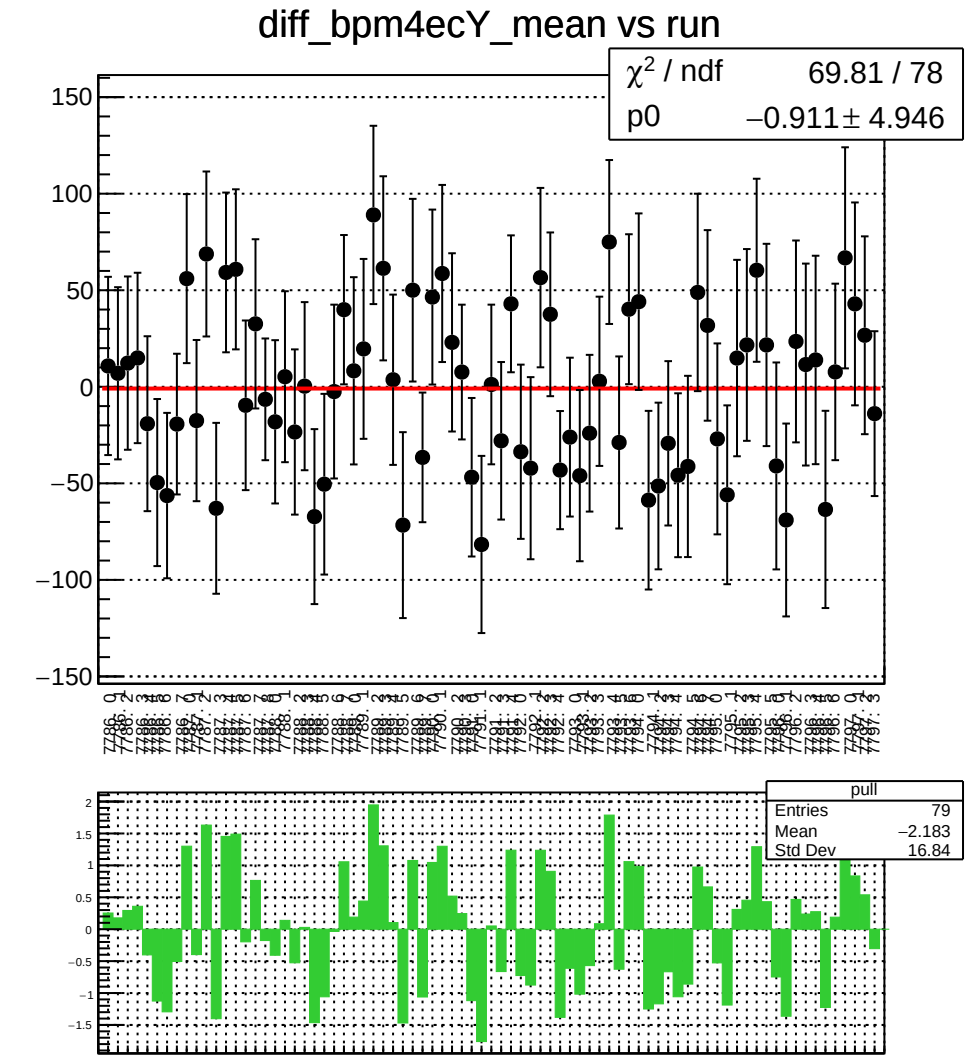

pull1D
Entries 79
Mean 0.01346
Std Dev 0.9716

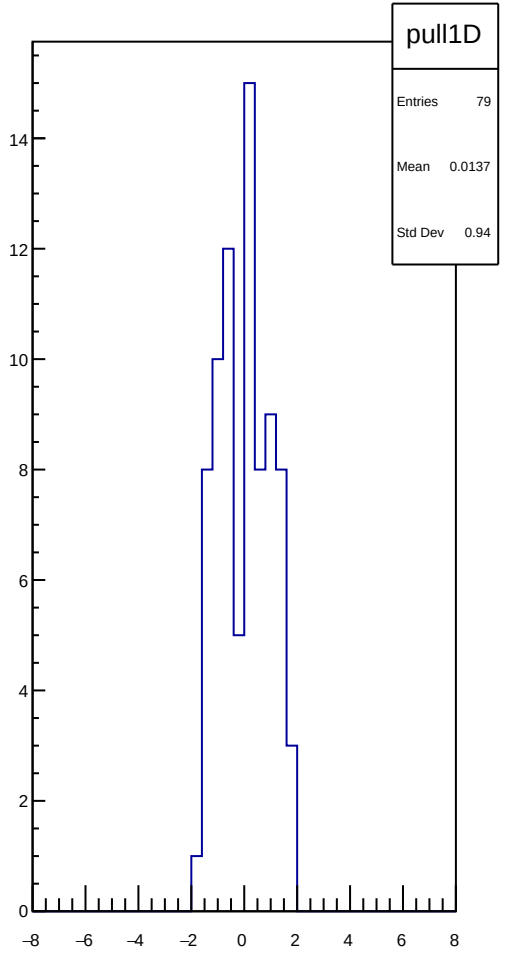

diff_bpm4acY_rms vs run
χ² / ndf 1.049e+04 / 78
p0 5003 ± 4.054
6500
6000
5500
5000
4500

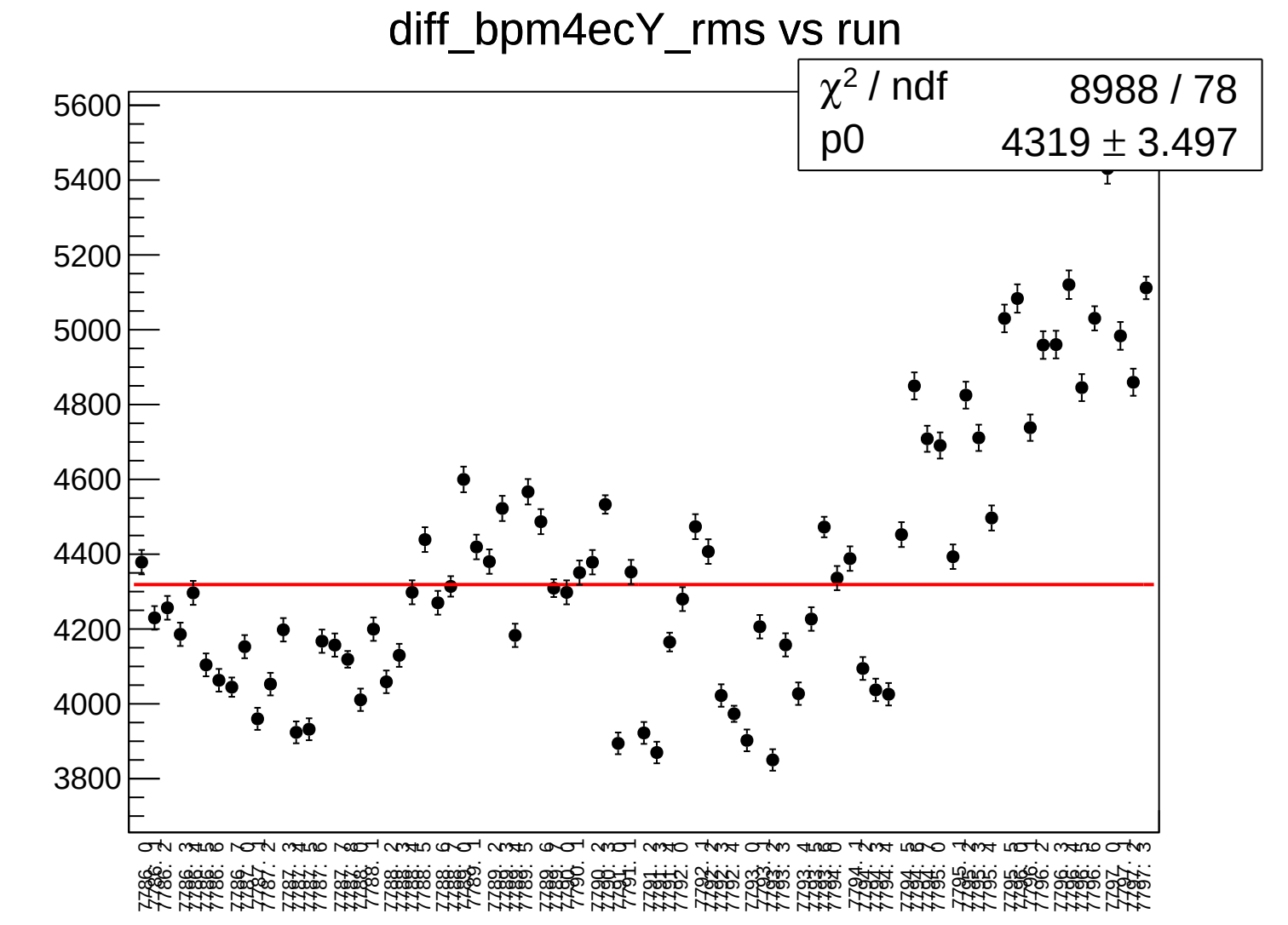

diff_bpm4ecX_mean vs run
χ² / ndf 73.7 / 78
p0 −44.02 ± 27.63
pull
Entries 79
Mean −40.52
Std Dev 0

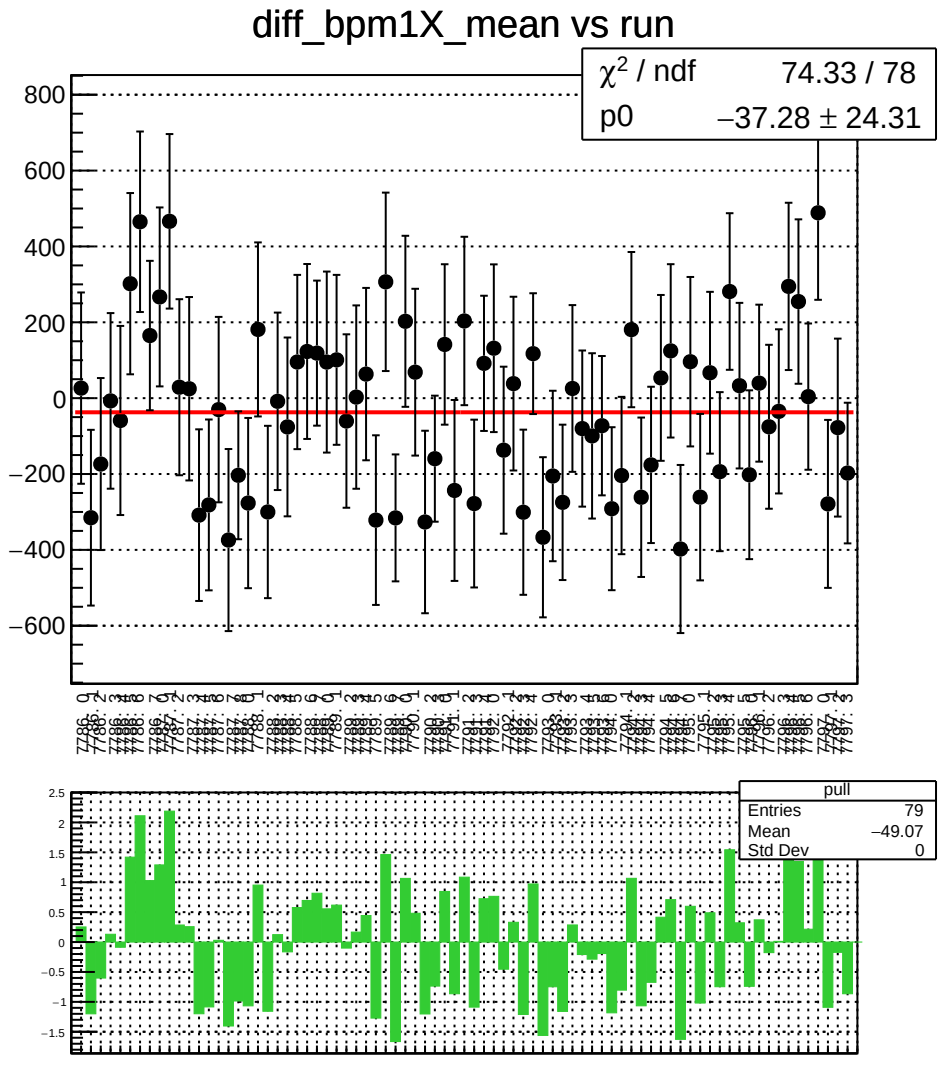

pull1D
Entries 79
Mean 0.01207
Std Dev 0.9658

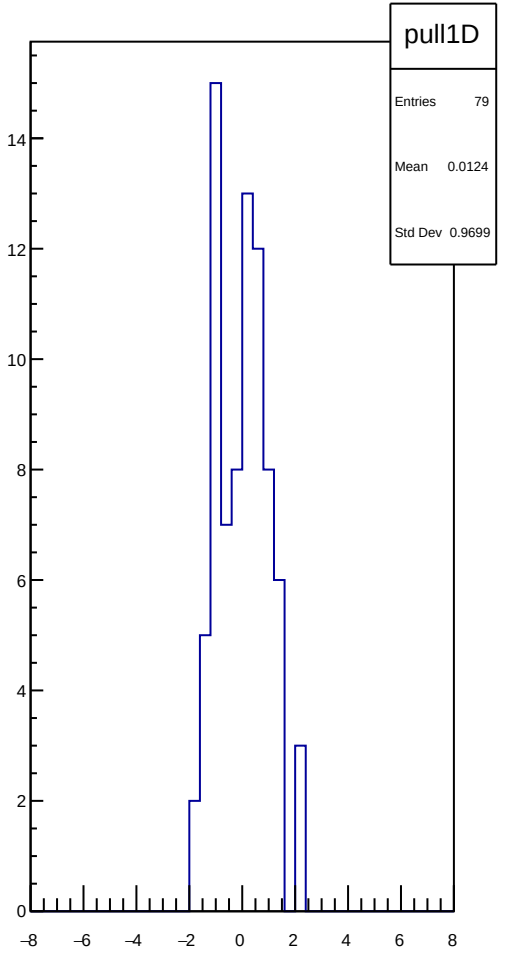

diff_bpm4ecX_rms vs run
χ² / ndf 2456 / 78
p0 2.418e+04 ± 19.54
27000
26000
25000
24000
23000
22000

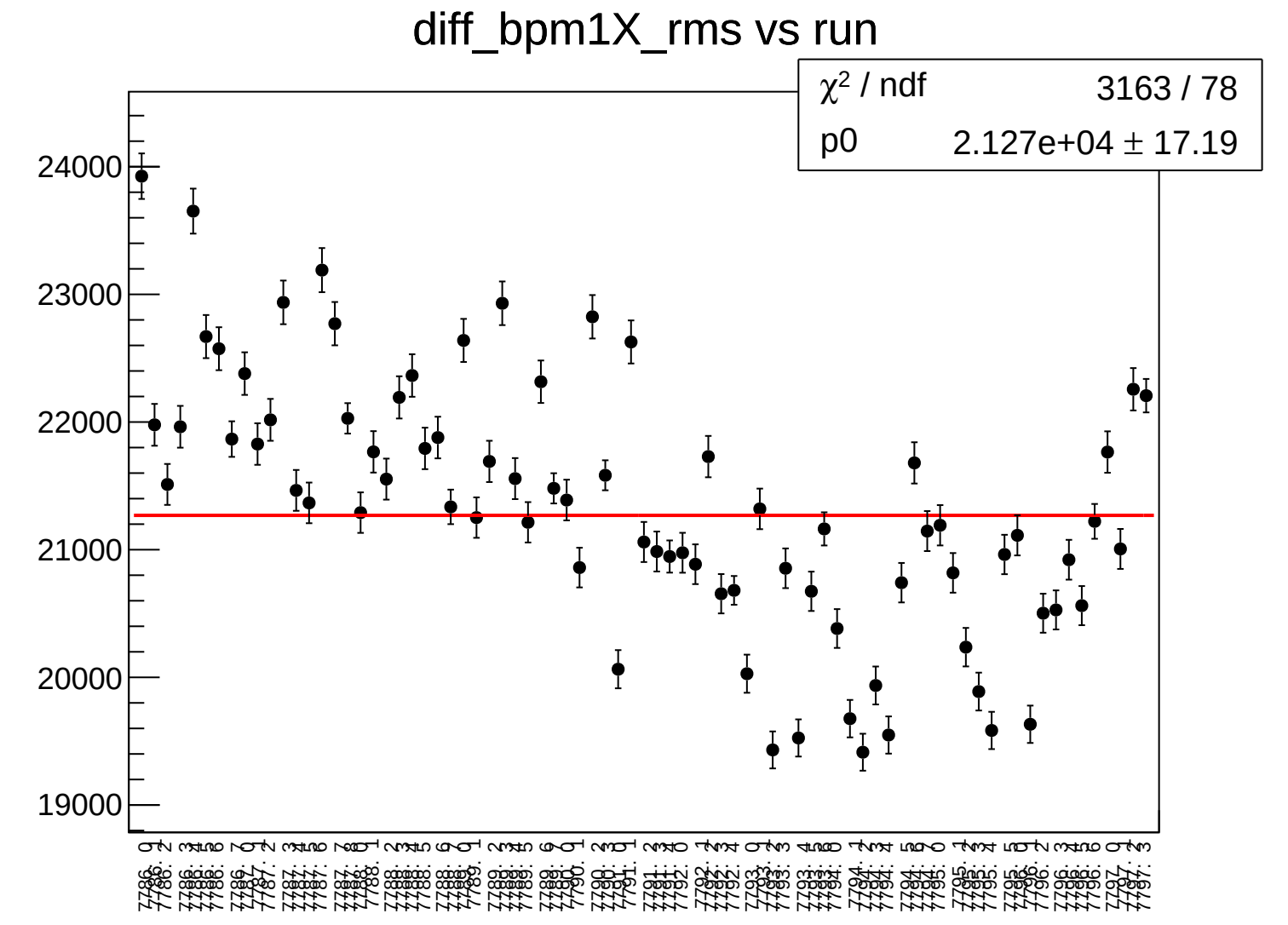

diff_bpm4ecY_mean vs run
χ^2 / ndf 69.81 / 78
p0 −0.911± 4.946
pull
Entries 79
Mean −2.183
Std Dev 16.84

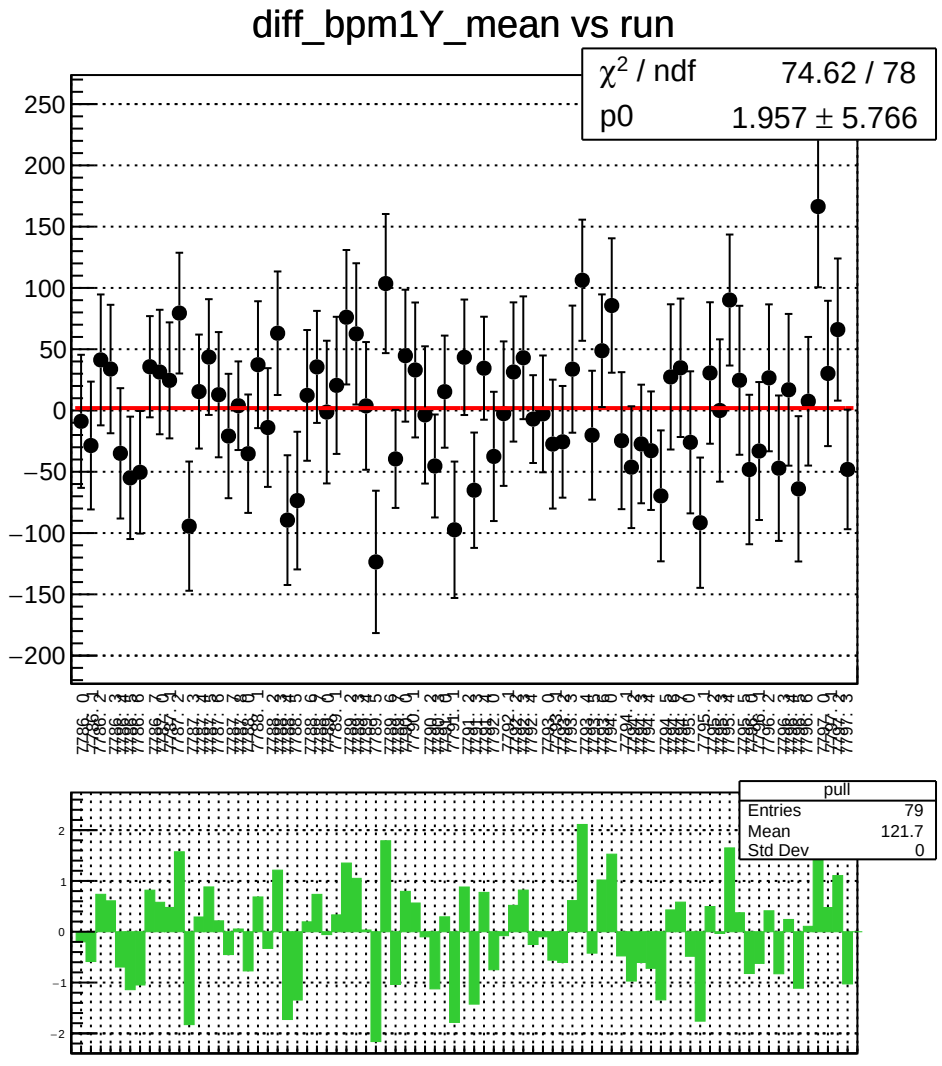

pull1D
Entries 79
Mean 0.0137
Std Dev 0.94

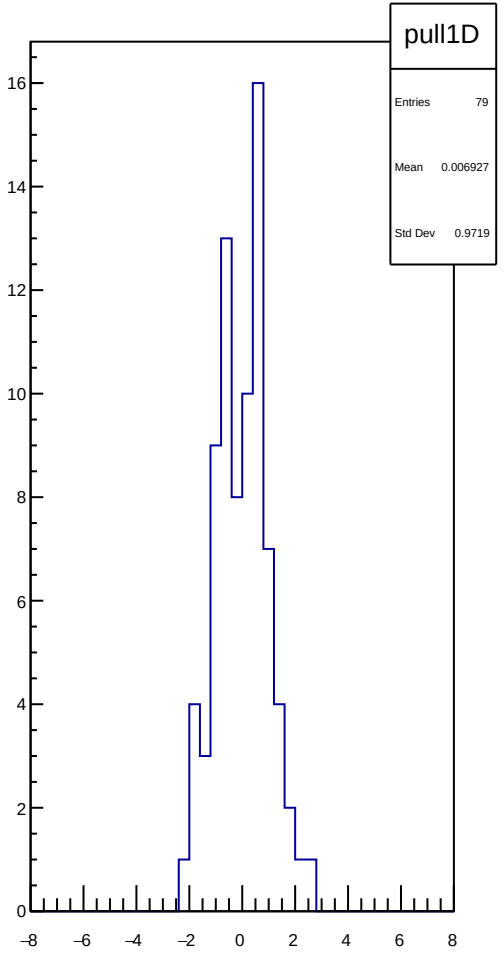

diff_bpm4ecY_rms vs run
χ² / ndf 8988 / 78
p0 4319 ± 3.497
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

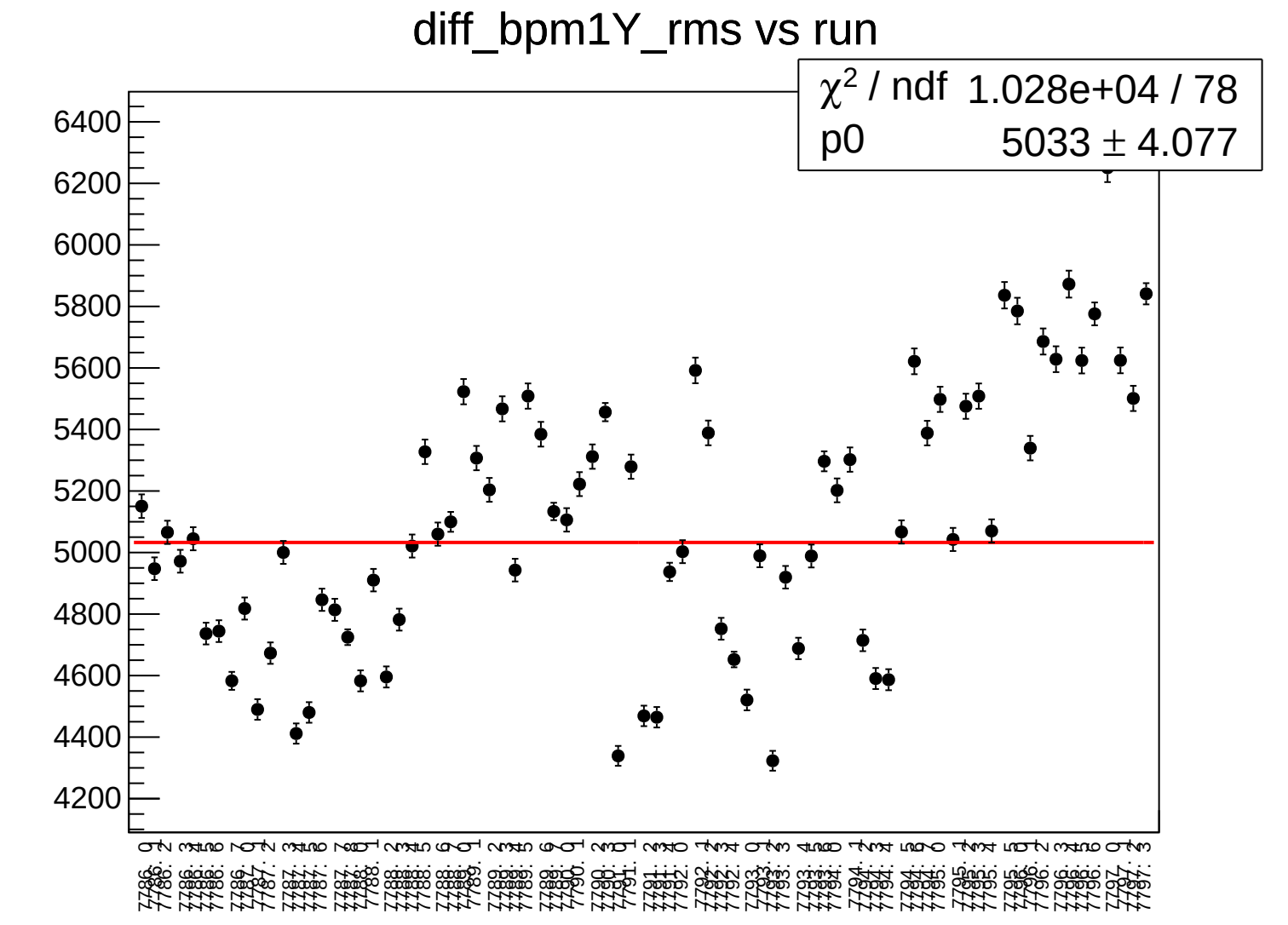

diff_bpm1X_mean vs run
χ² / ndf 74.33 / 78
p0 −37.28 ± 24.31
pull
Entries 79
Mean −49.07
Std Dev 0

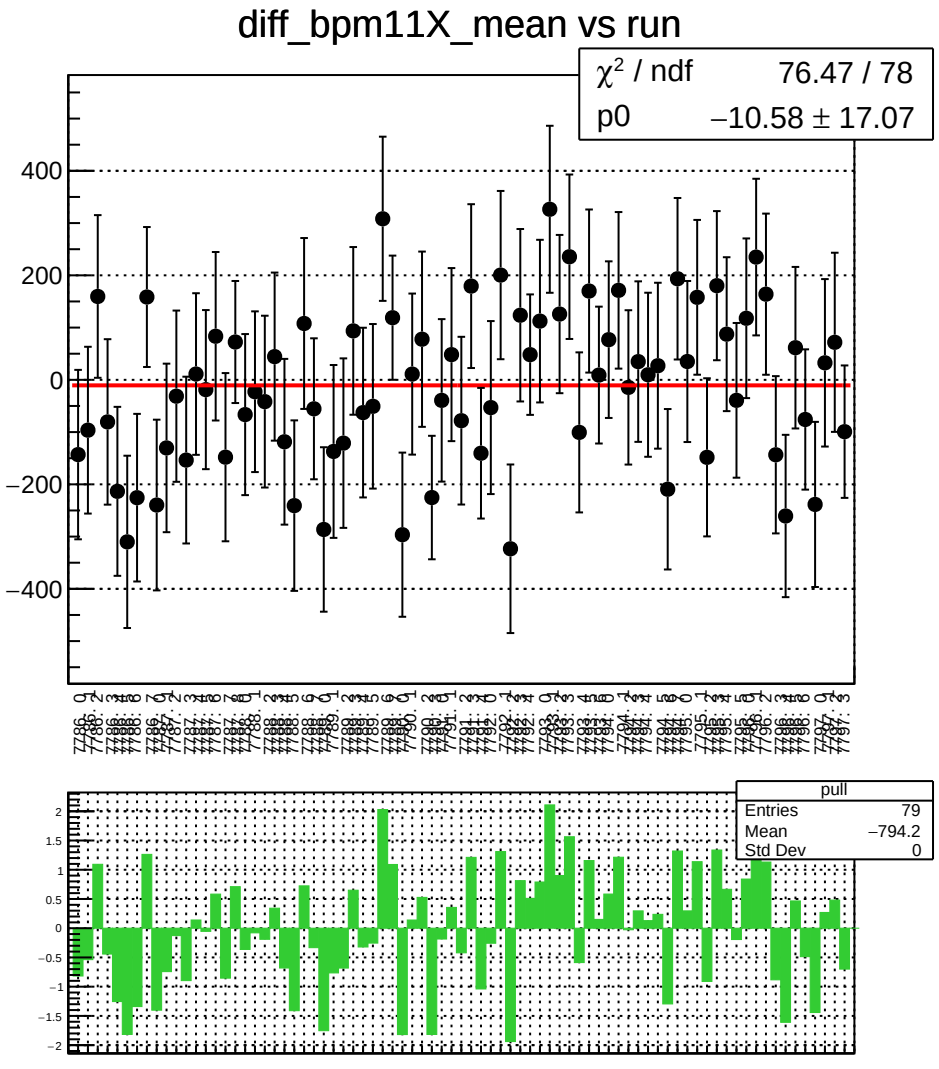

pull1D
Entries 79
Mean 0.0124
Std Dev 0.9699

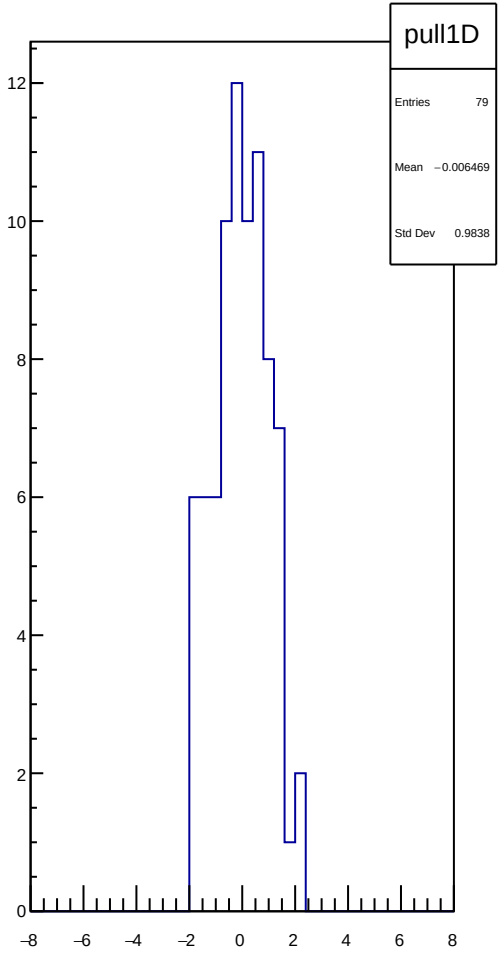

diff_bpm1X_rms vs run
χ² / ndf 3163 / 78
p0 2.127e+04 ± 17.19
24000
23000
22000
21000
20000
19000

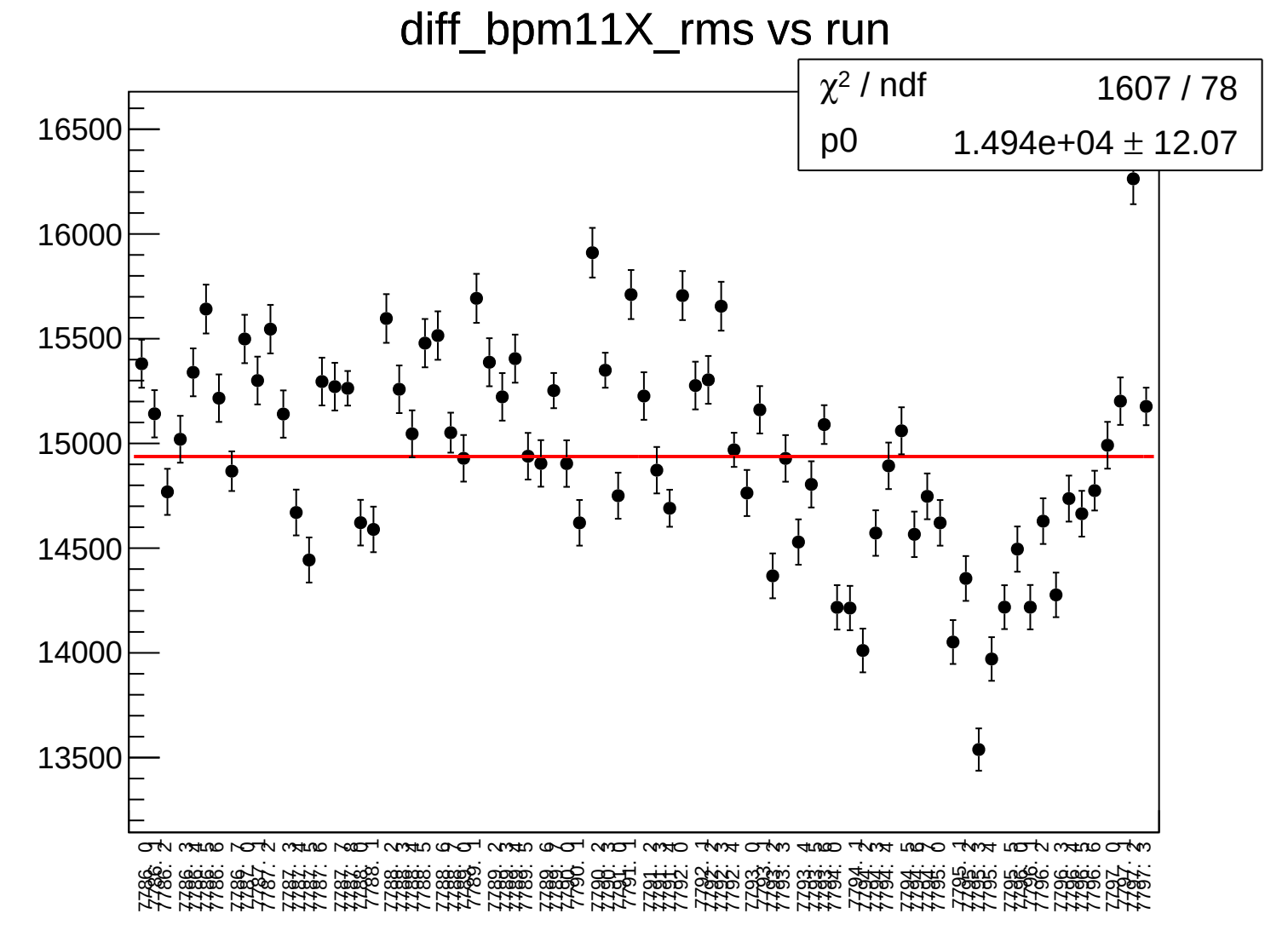

diff_bpm1Y_mean vs run
χ² / ndf 74.62 / 78
p0 1.957 ± 5.766
pull
Entries 79
Mean 121.7
Std Dev 0

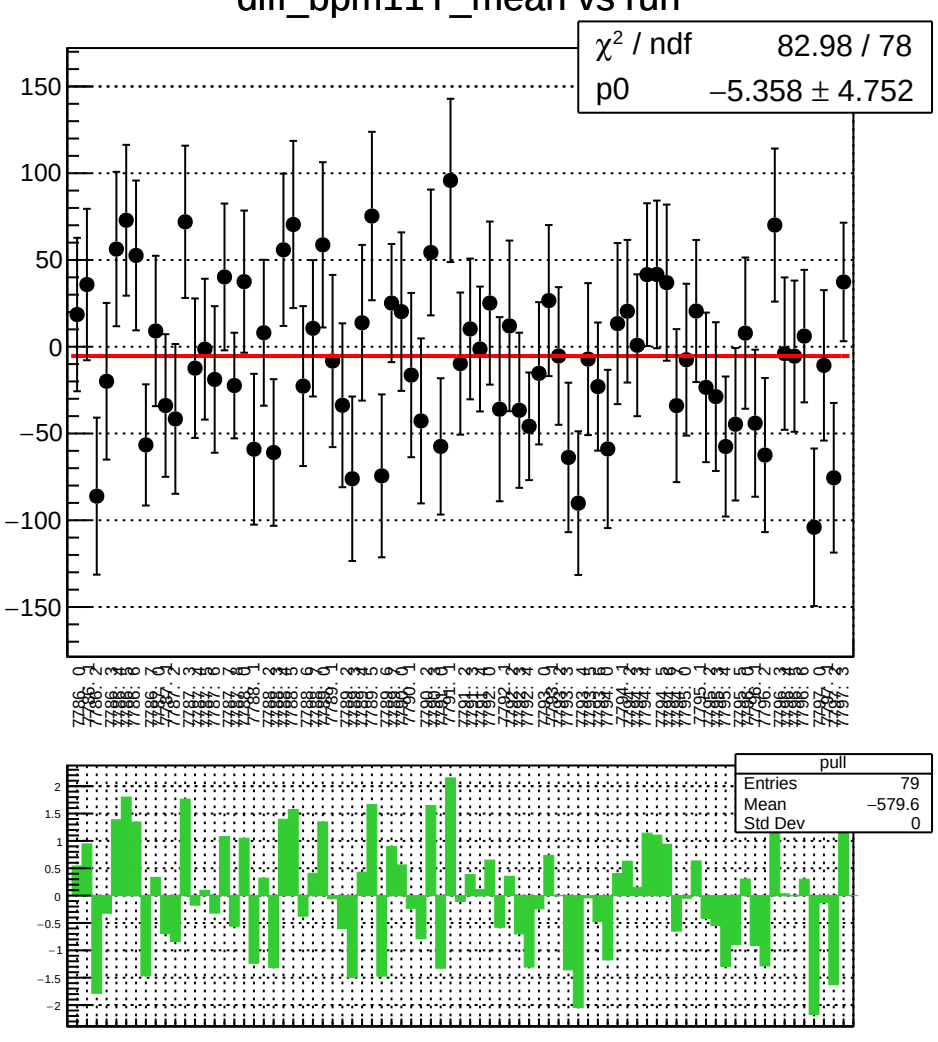

pull1D
Entries 79
Mean 0.006927
Std Dev 0.9719

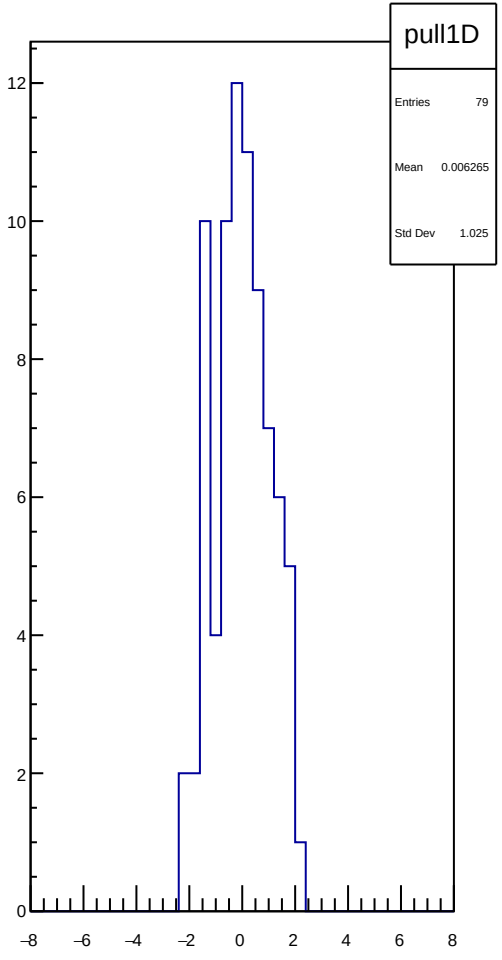

diff_bpm1Y_rms vs run
χ^2 / ndf 1.028e+04 / 78
p0 5033 ± 4.077
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

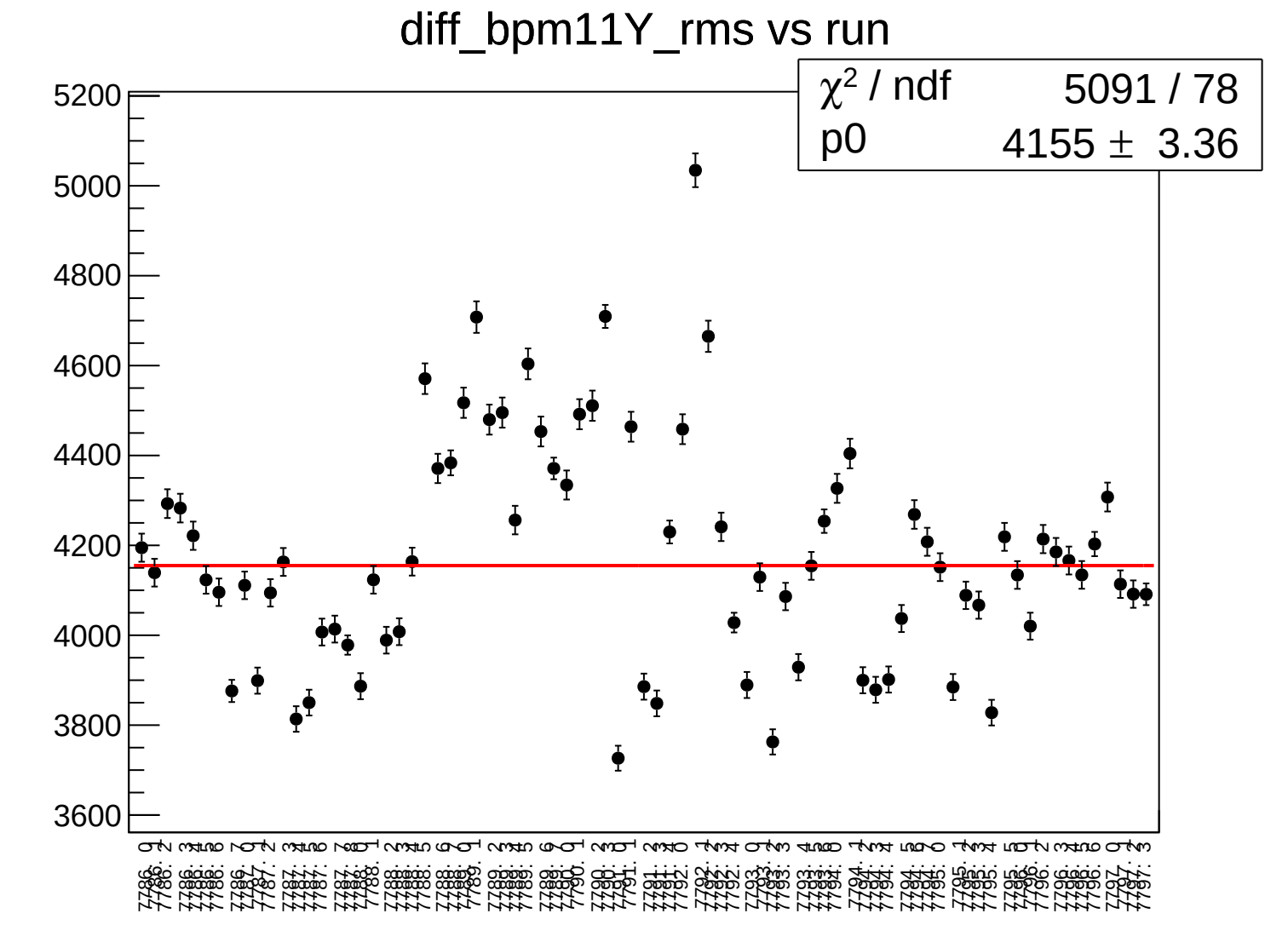

diff_bpm11X_mean vs run
χ² / ndf 76.47 / 78
p0 −10.58 ± 17.07
400
200
0
−200
−400
pull
Entries 79
Mean −794.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

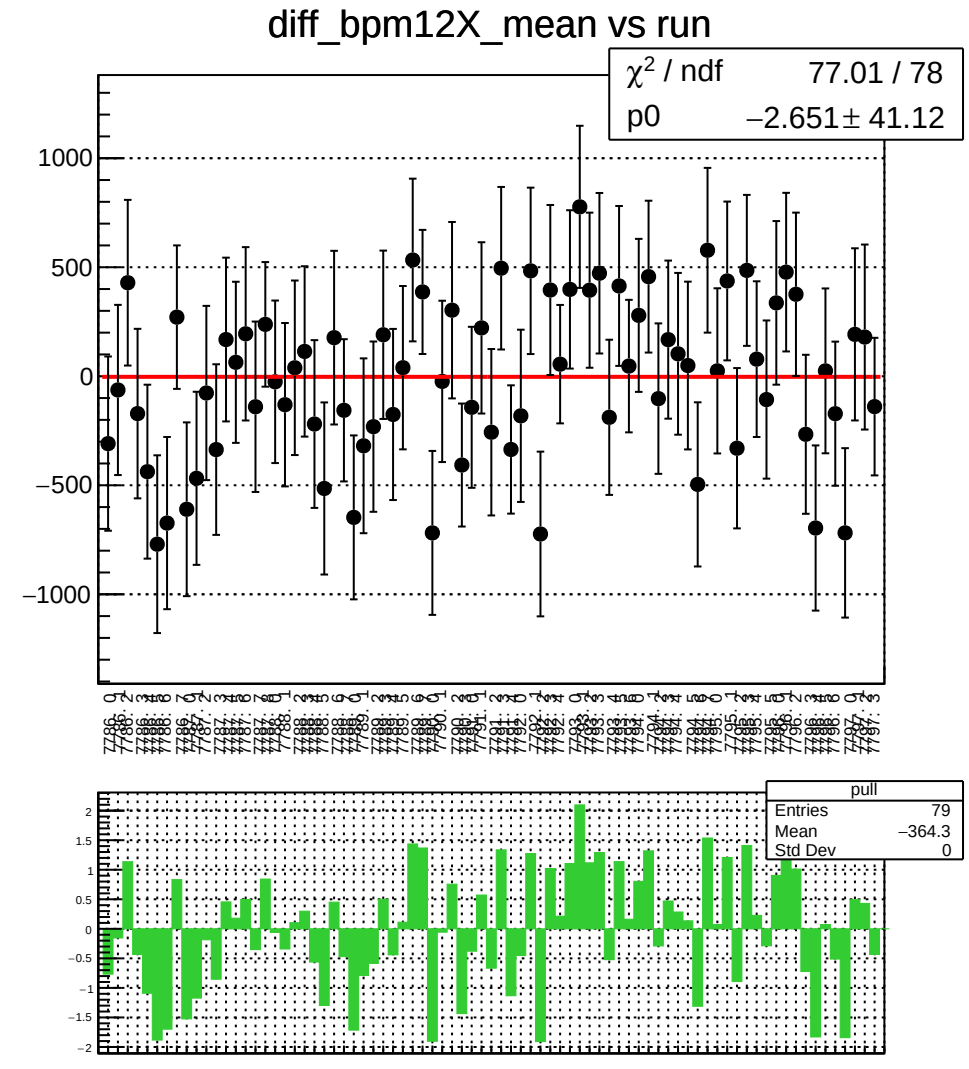

pull1D
Entries 79
Mean −0.006469
Std Dev 0.9838
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

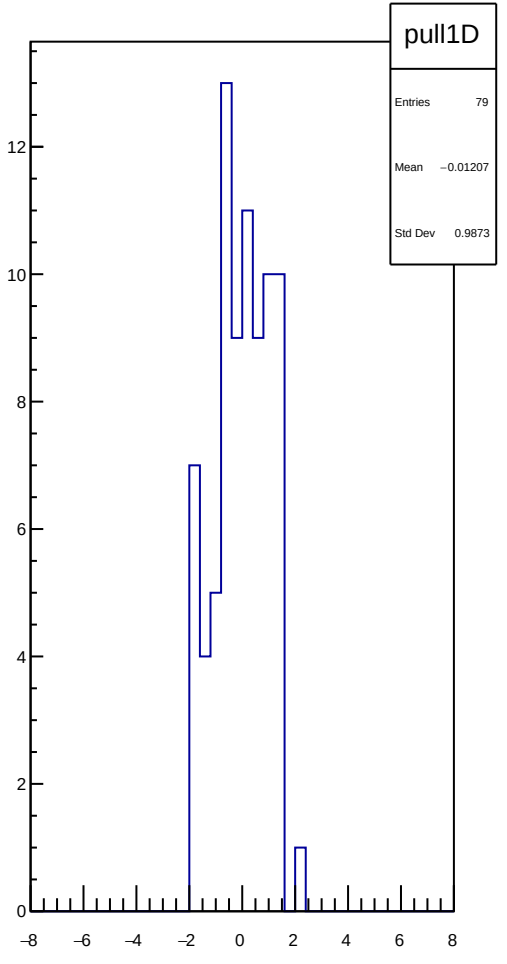

diff_bpm11X_rms vs run
χ² / ndf 1607 / 78
p0 1.494e+04 ± 12.07
16500
16000
15500
15000
14500
14000
13500

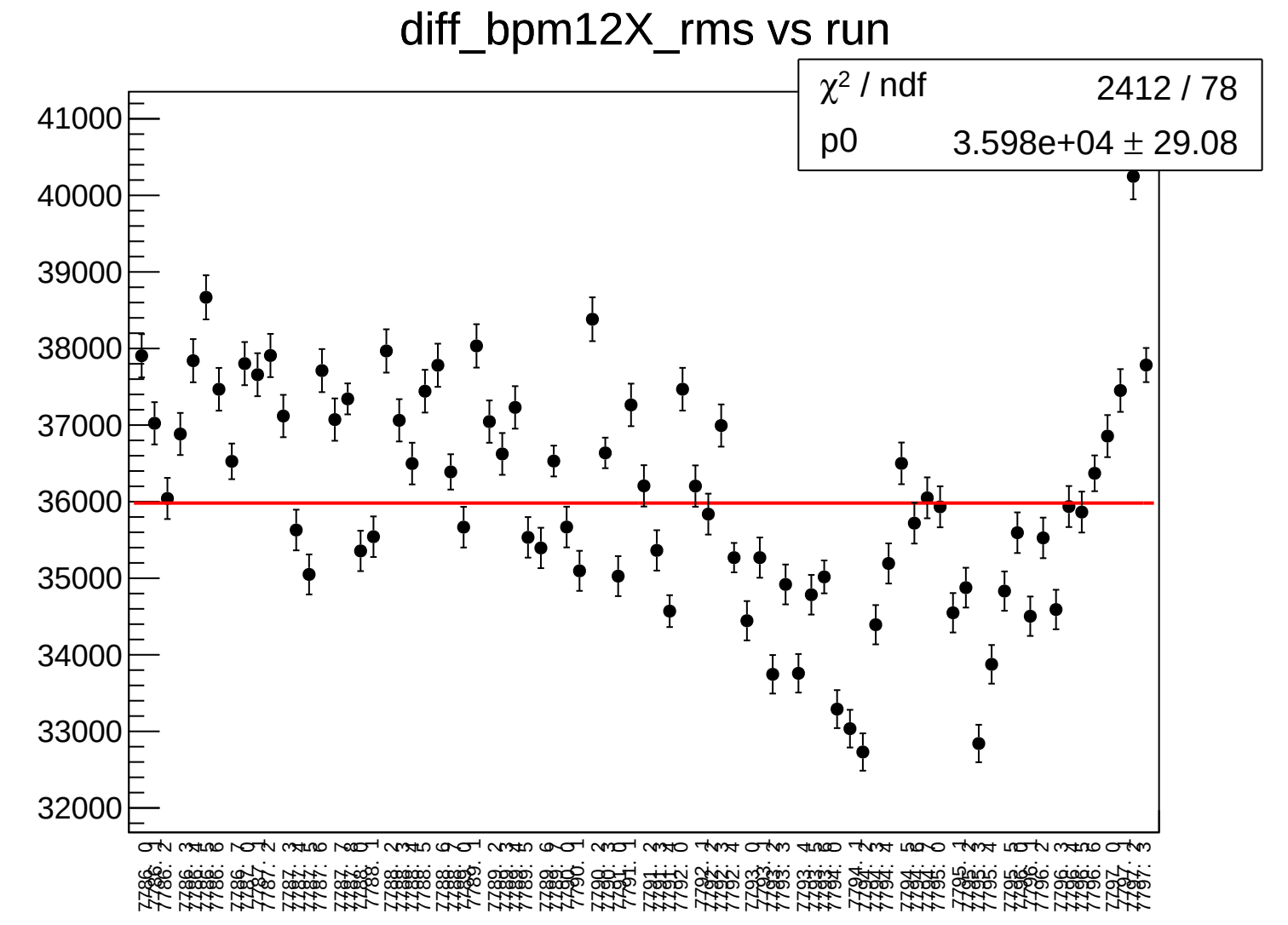

diff_bpm11Y_mean vs run
χ² / ndf 82.98 / 78
p0 −5.358 ± 4.752
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −579.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

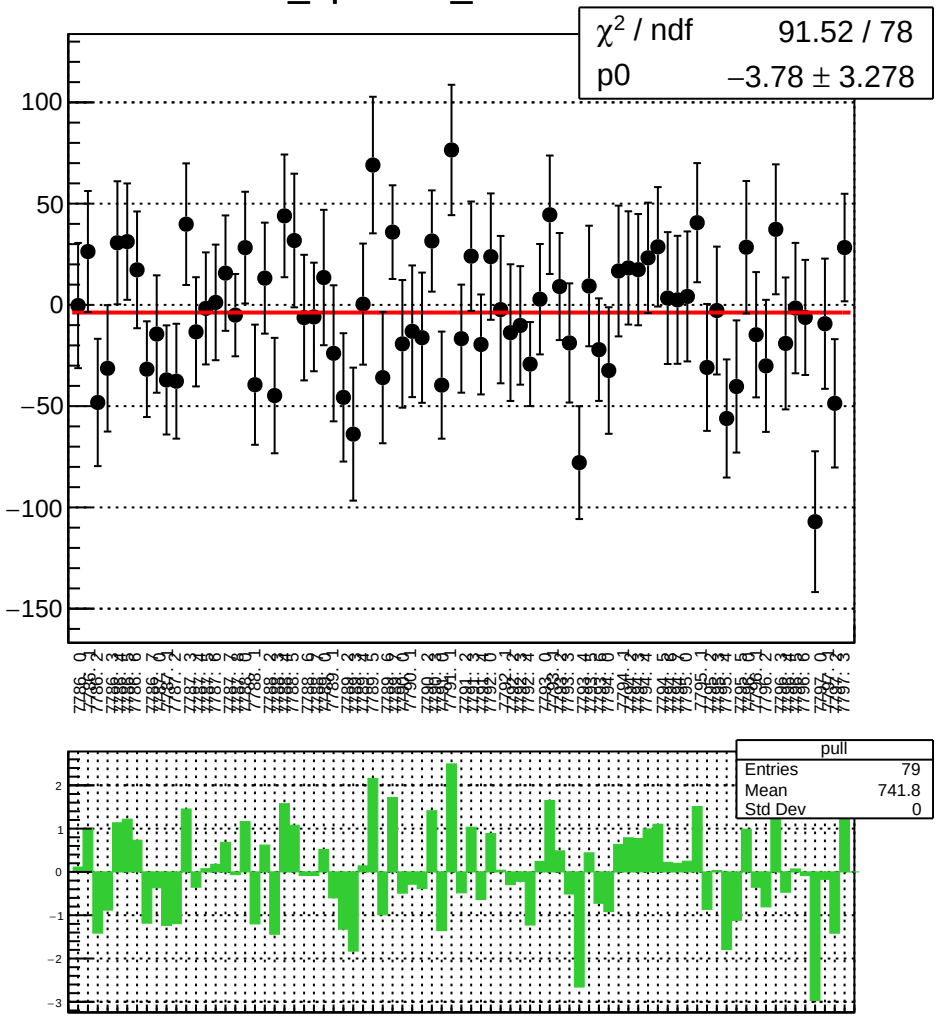

pull1D
Entries 79
Mean 0.006265
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

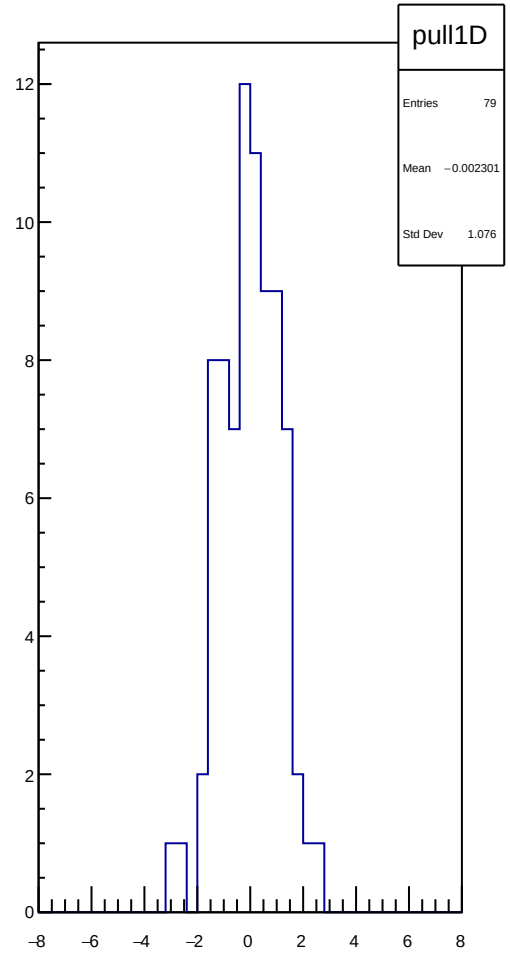

diff_bpm11Y_rms vs run
χ² / ndf 5091 / 78
p0 4155 ± 3.36
5200
5000
4800
4600
4400
4200
4000
3800
3600

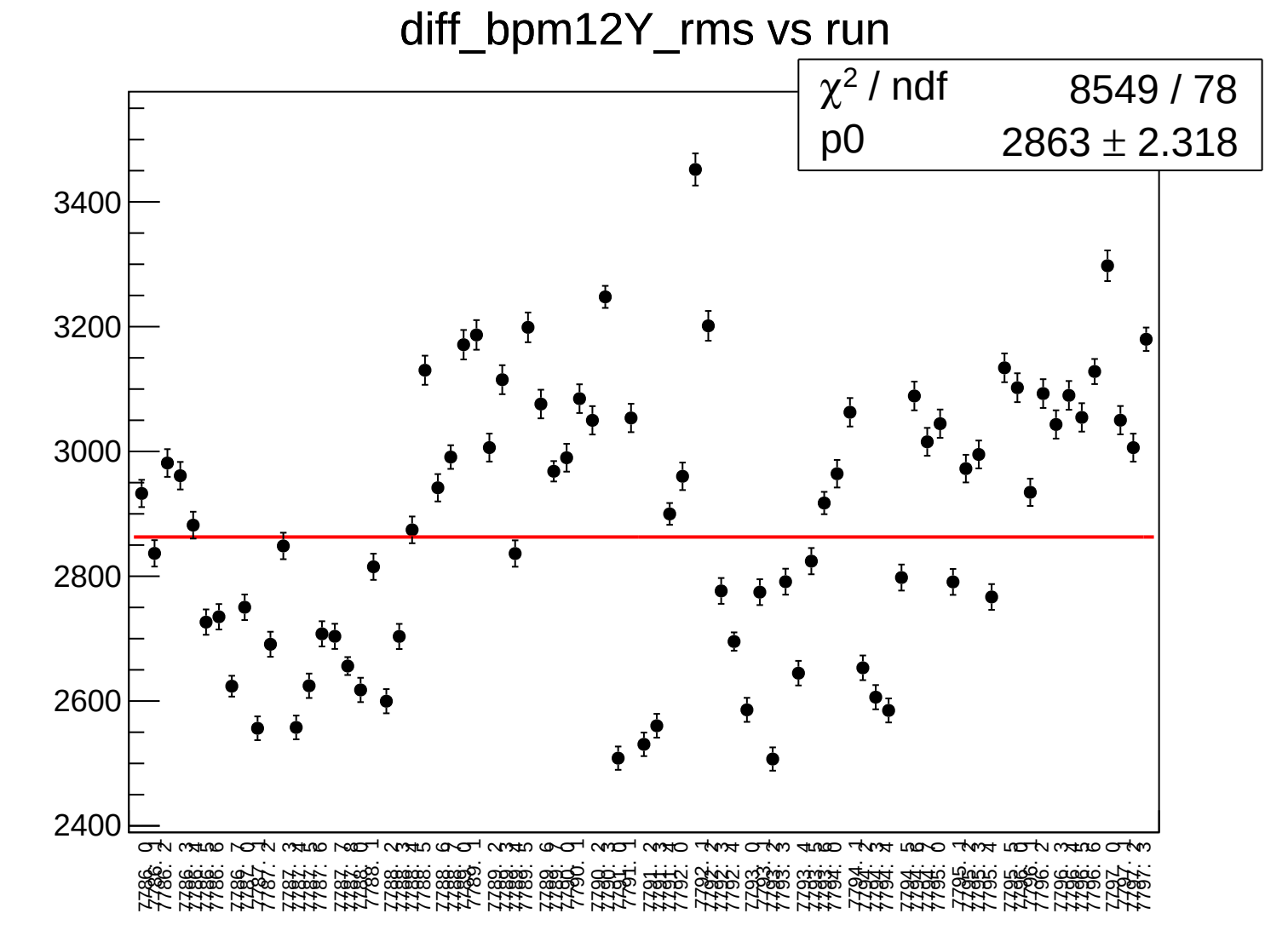

diff_bpm12X_mean vs run
χ² / ndf 77.01 / 78
p0 −2.651 ± 41.12
1000
500
0
−500
−1000
pull
Entries 79
Mean −364.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

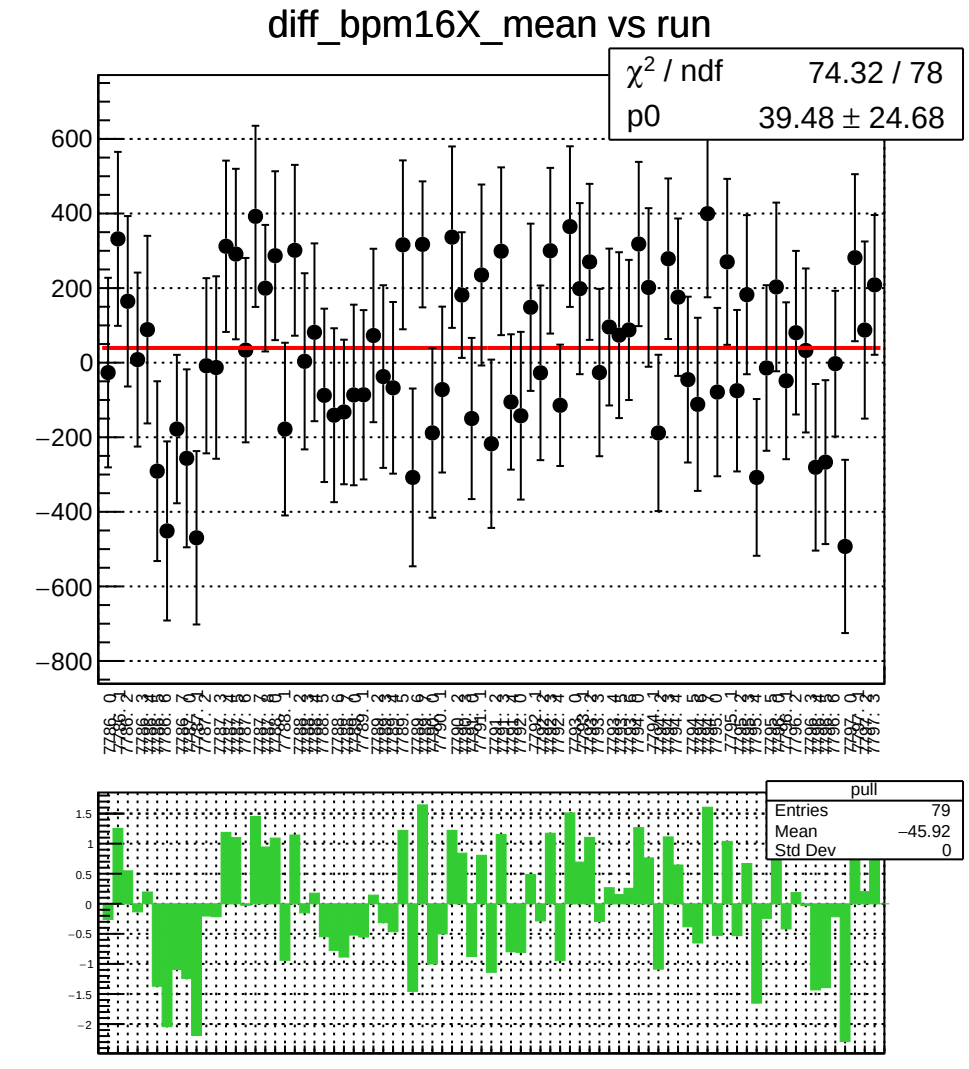

pull1D
Entries 79
Mean −0.01207
Std Dev 0.9873
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

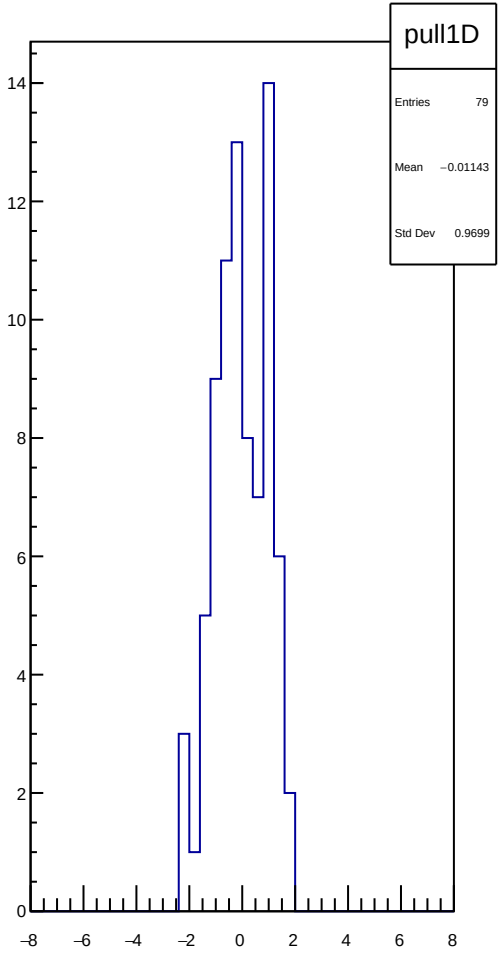

diff_bpm12X_rms vs run
χ² / ndf 2412 / 78
p0 3.598e+04 ± 29.08
41000
40000
39000
38000
37000
36000
35000
34000
33000
32000

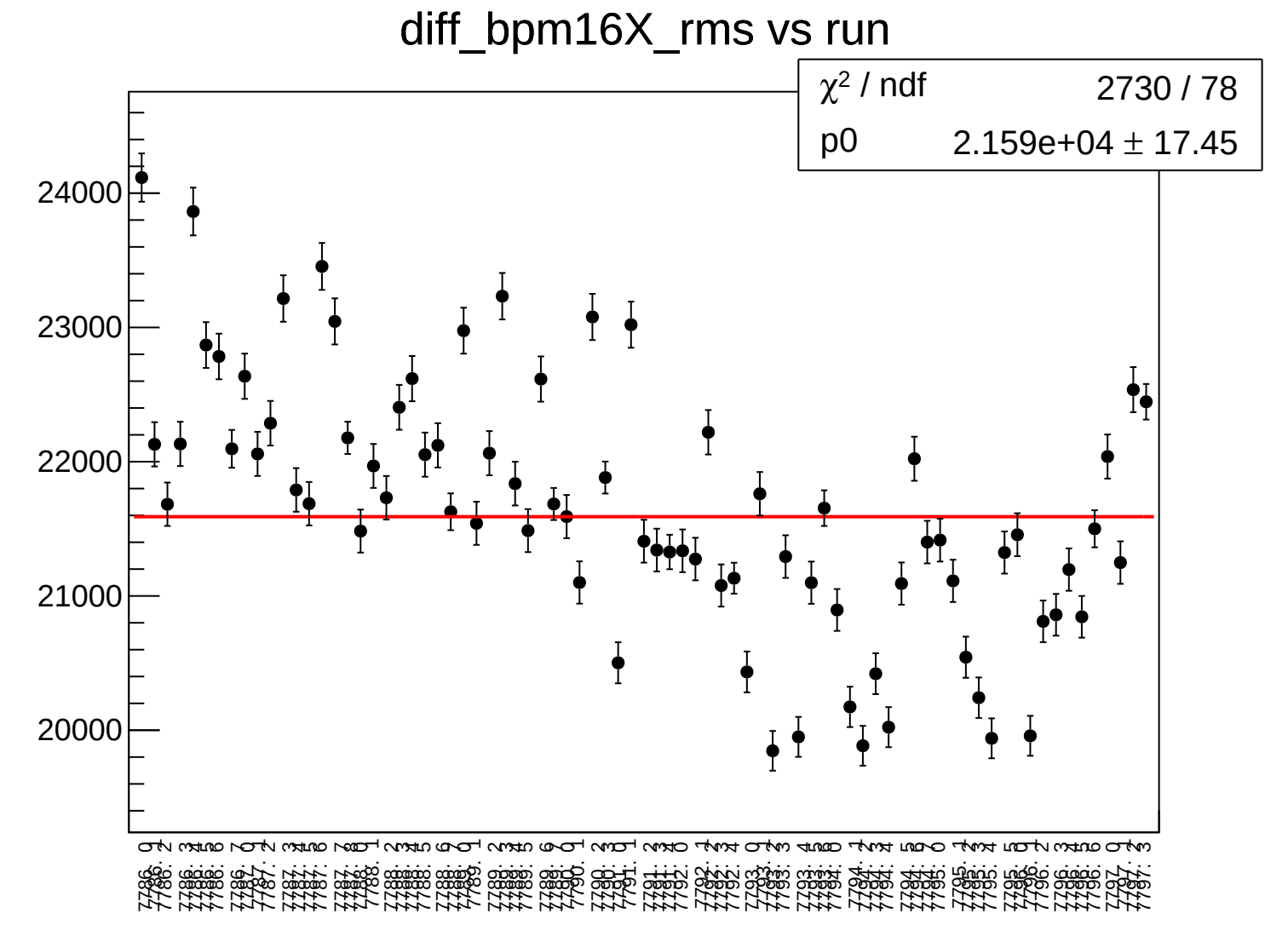

diff_bpm12Y_mean vs run
χ^2 / ndf 91.52 / 78
p0 −3.78 ± 3.278
pull
Entries 79
Mean 741.8
Std Dev 0

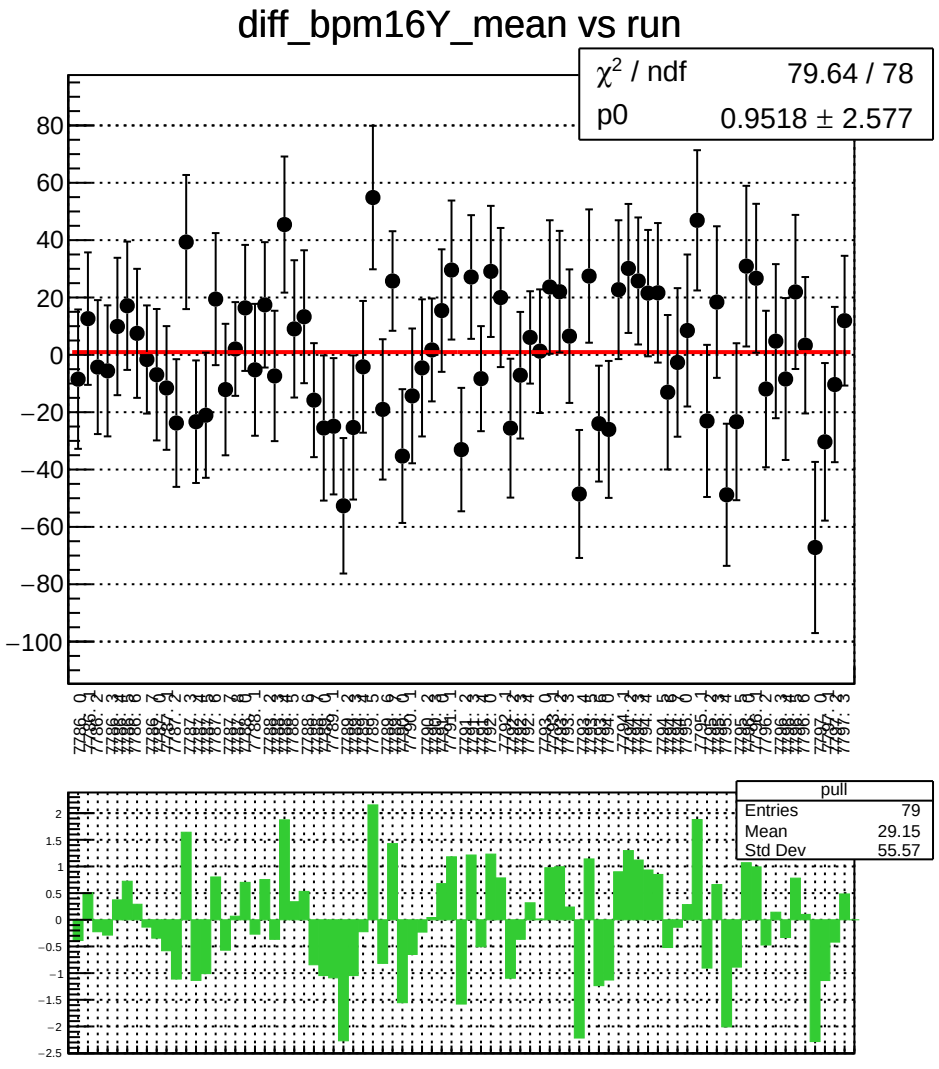

pull1D
Entries 79
Mean −0.002301
Std Dev 1.076

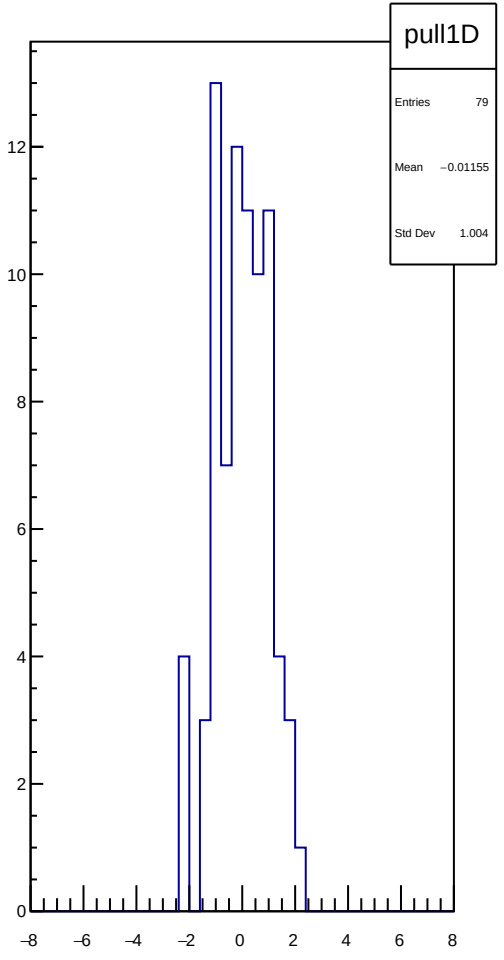

diff_bpm12Y_rms vs run
χ^2 / ndf 8549 / 78
p0 2863 ± 2.318
3400
3200
3000
2800
2600
2400

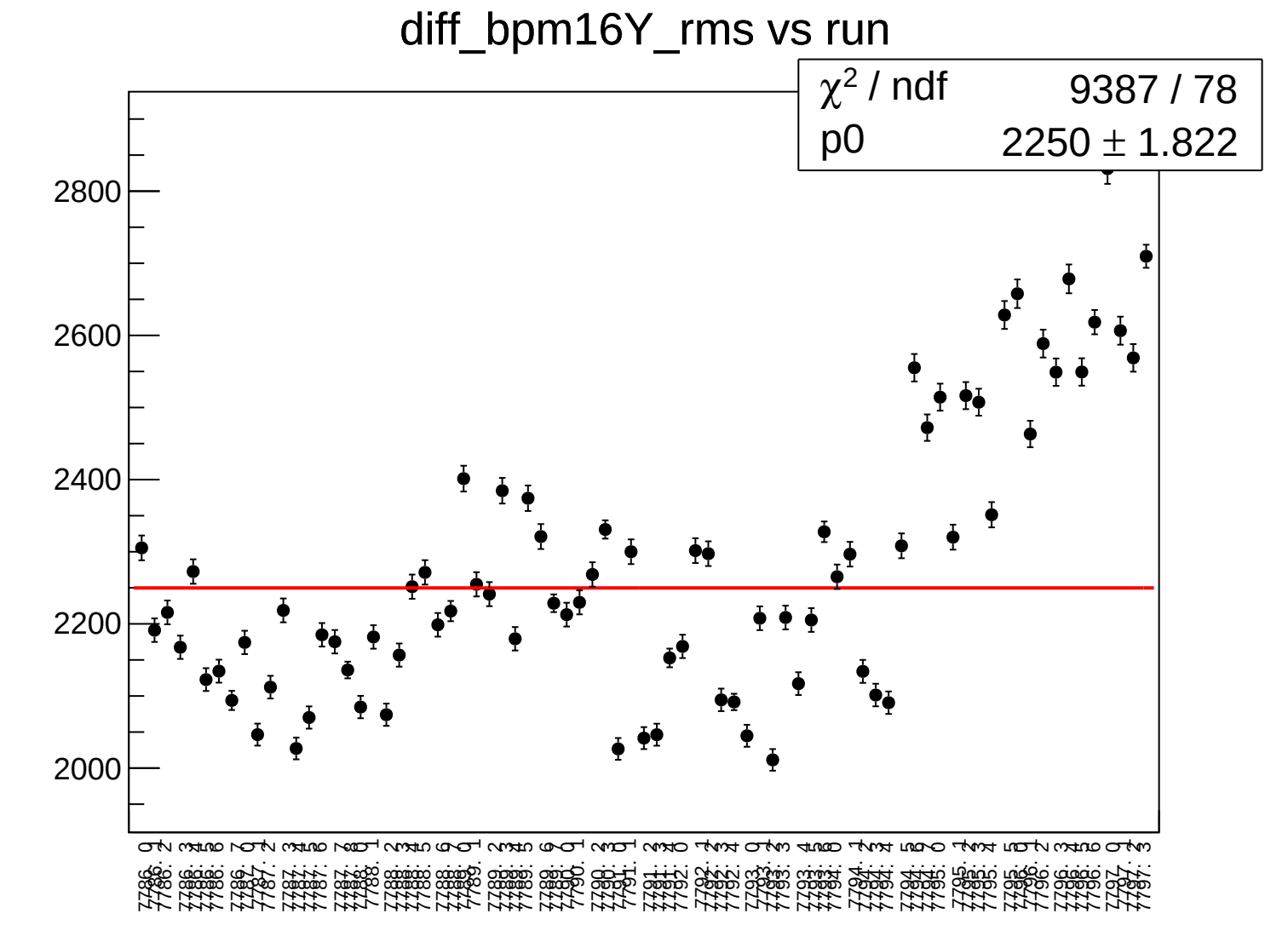

diff_bpm16X_mean vs run
χ^2 / ndf 74.32 / 78
p0 39.48 ± 24.68
pull
Entries 79
Mean −45.92
Std Dev 0

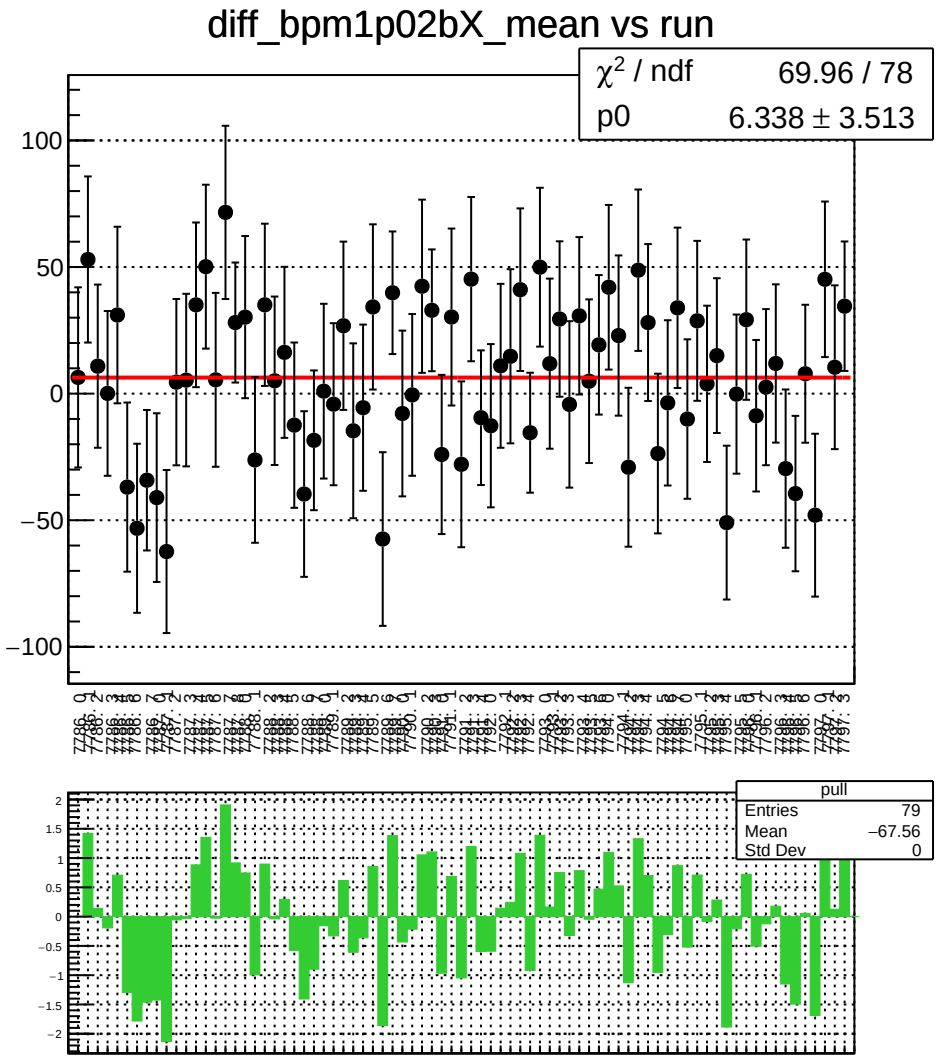

pull1D
Entries 79
Mean −0.01143
Std Dev 0.9699

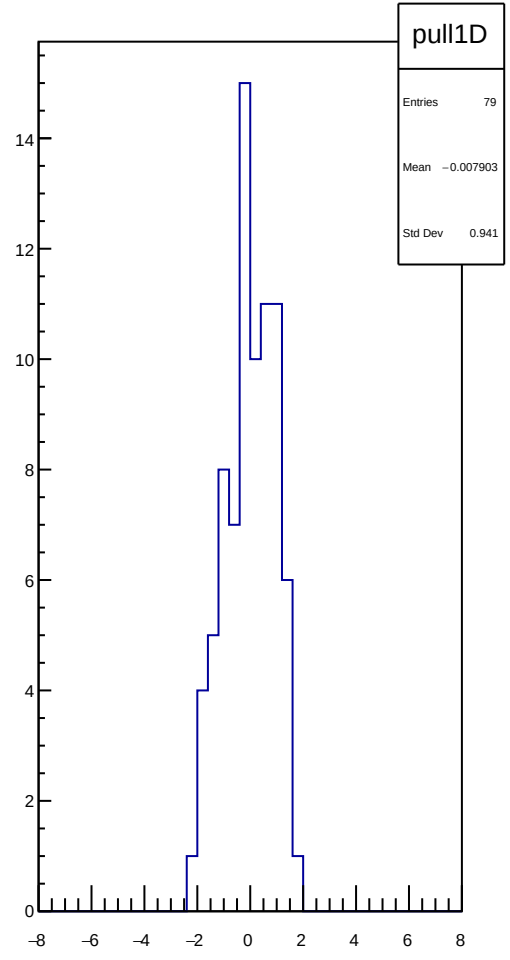

diff_bpm16X_rms vs run
χ² / ndf 2730 / 78
p0 2.159e+04 ± 17.45
24000
23000
22000
21000
20000

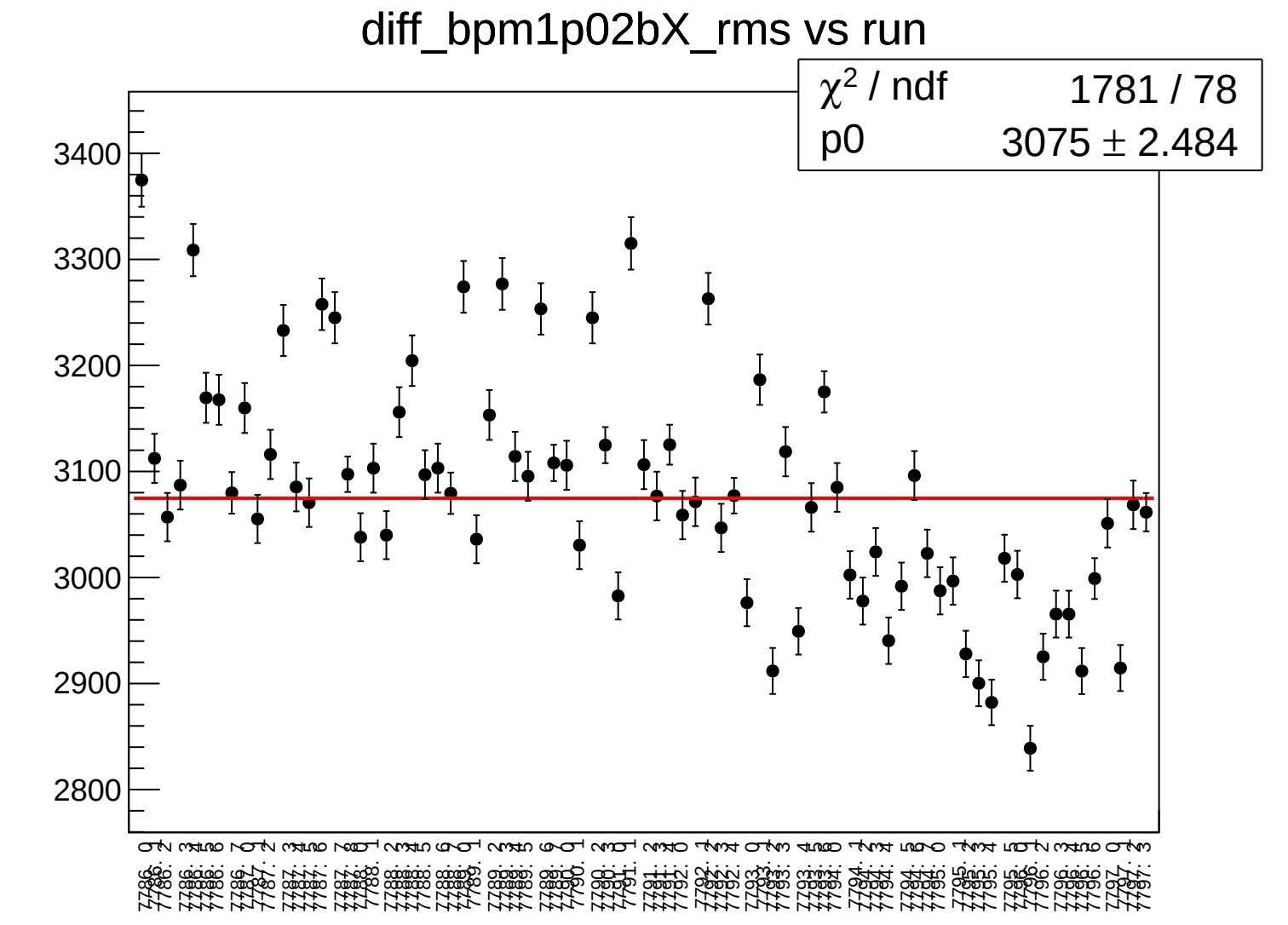

diff_bpm16Y_mean vs run
χ² / ndf 79.64 / 78
p0 0.9518 ± 2.577
pull
Entries 79
Mean 29.15
Std Dev 55.57

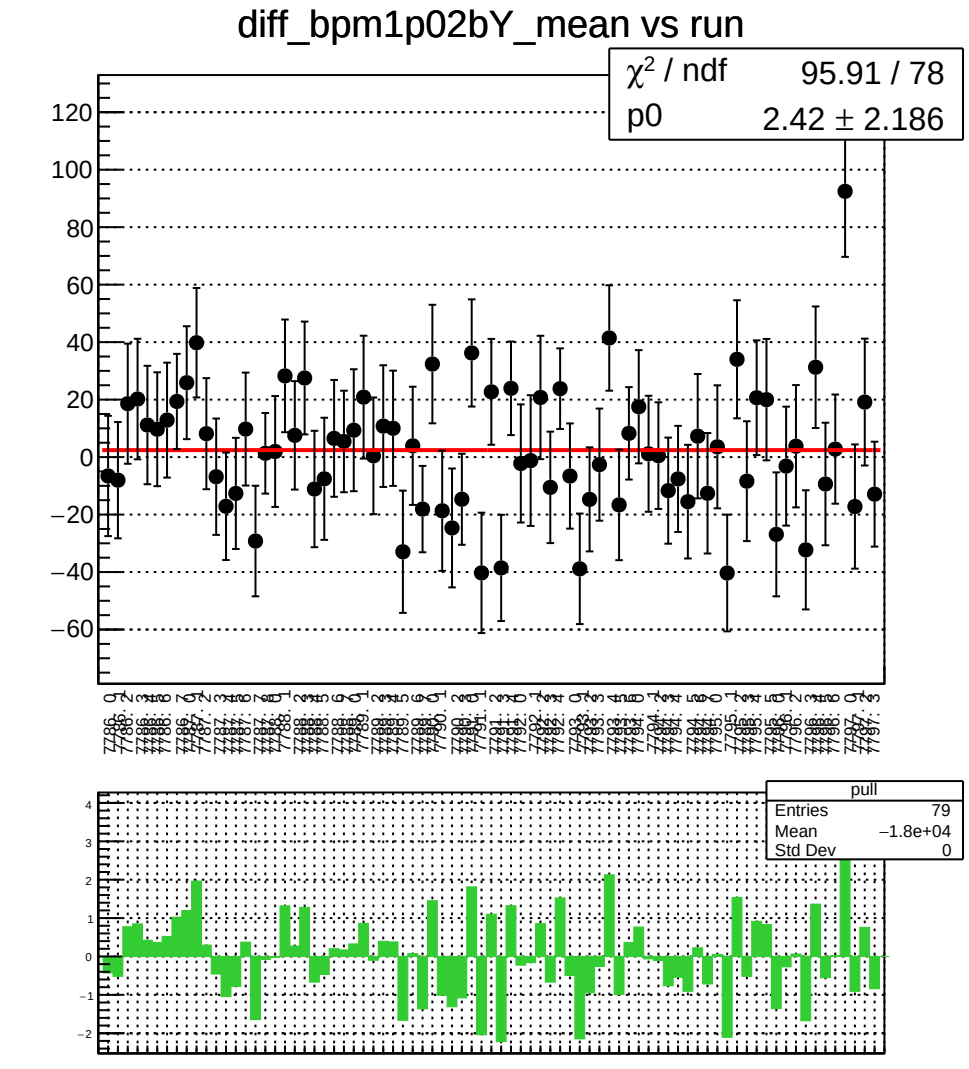

pull1D
Entries 79
Mean −0.01155
Std Dev 1.004

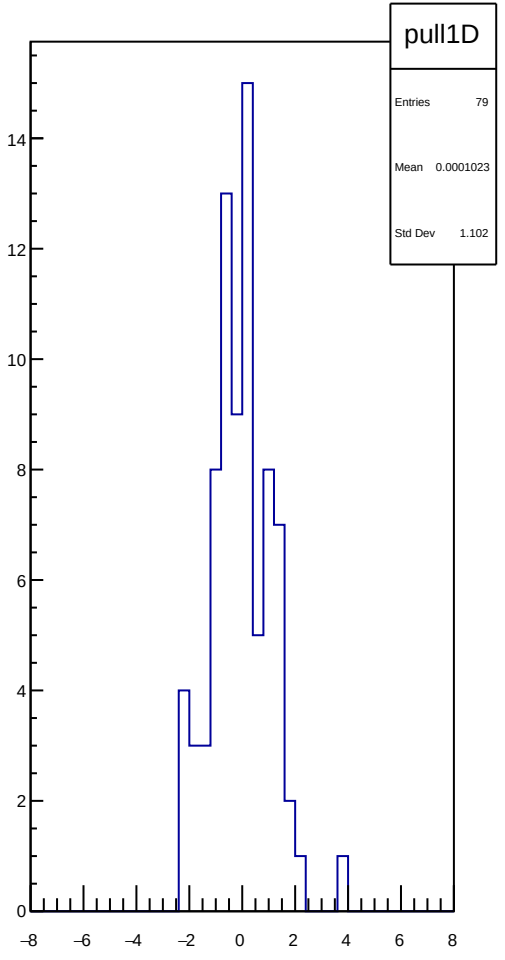

diff_bpm16Y_rms vs run
χ² / ndf 9387 / 78
p0 2250 ± 1.822
2800
2600
2400
2200
2000

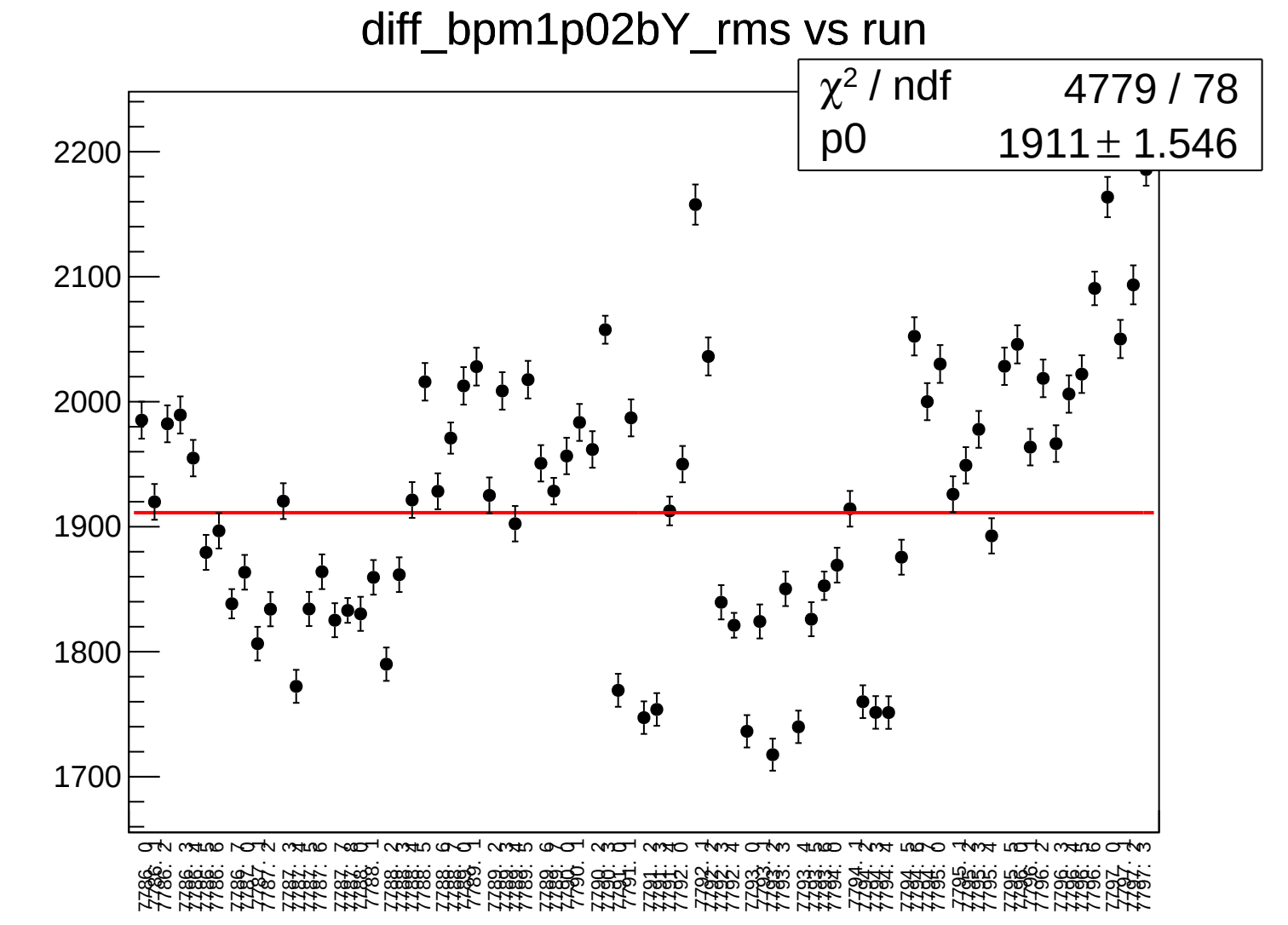

diff_bpm1p02bX_mean vs run
χ^2 / ndf 69.96 / 78
p0 6.338 ± 3.513
pull
Entries 79
Mean −67.56
Std Dev 0

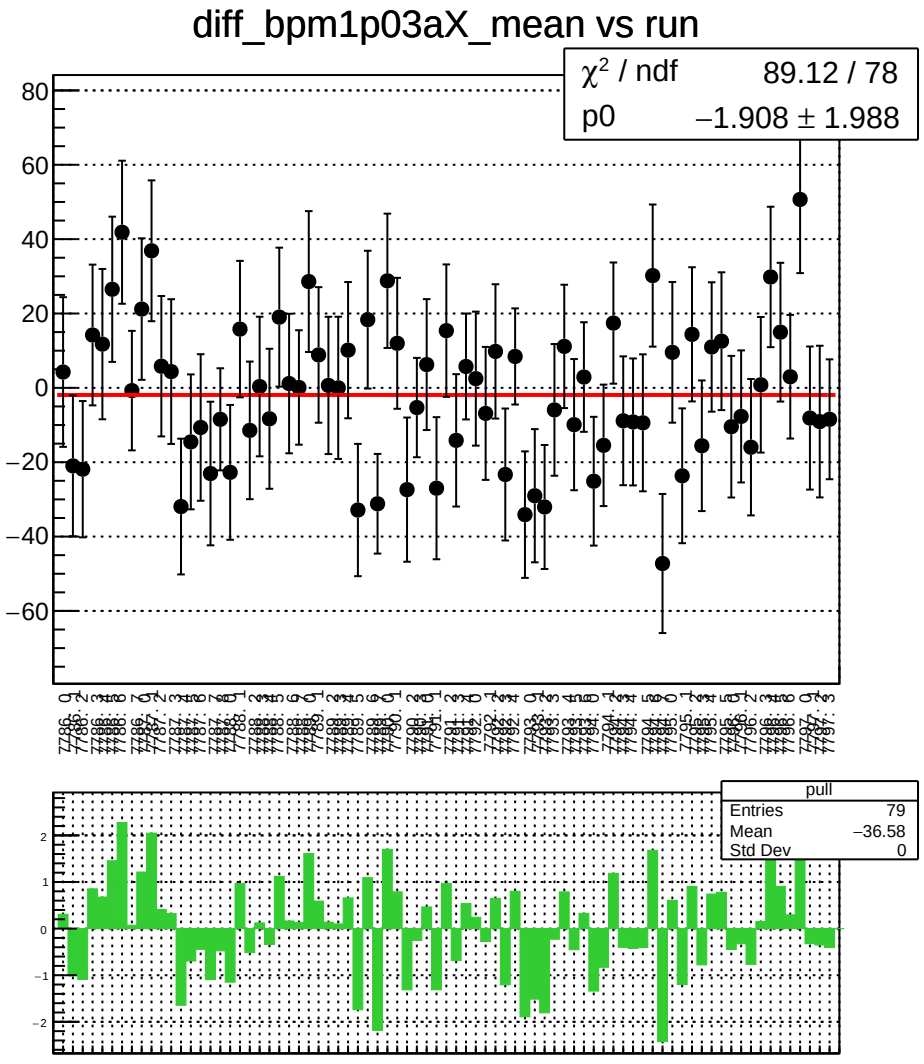

pull1D
Entries 79
Mean −0.007903
Std Dev 0.941

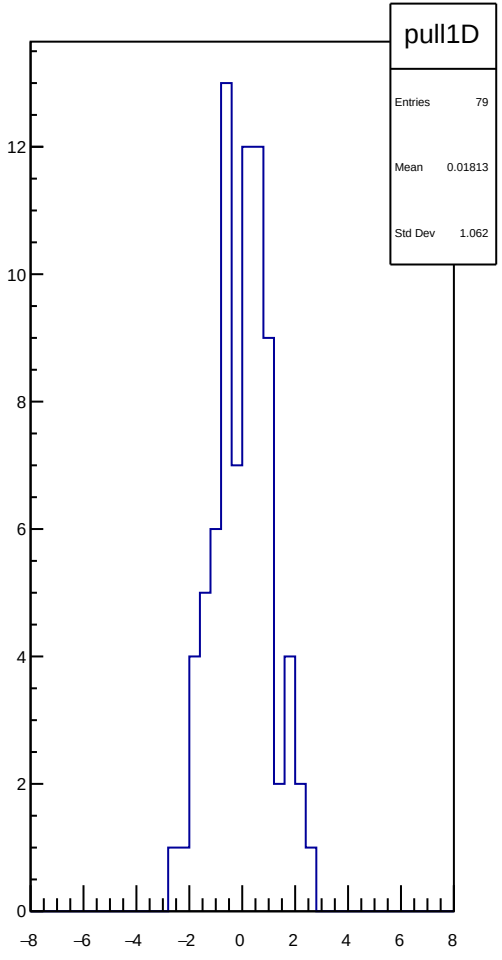

diff_bpm1p02bX_rms vs run
χ² / ndf 1781 / 78
p0 3075 ± 2.484
3400
3300
3200
3100
3000
2900
2800

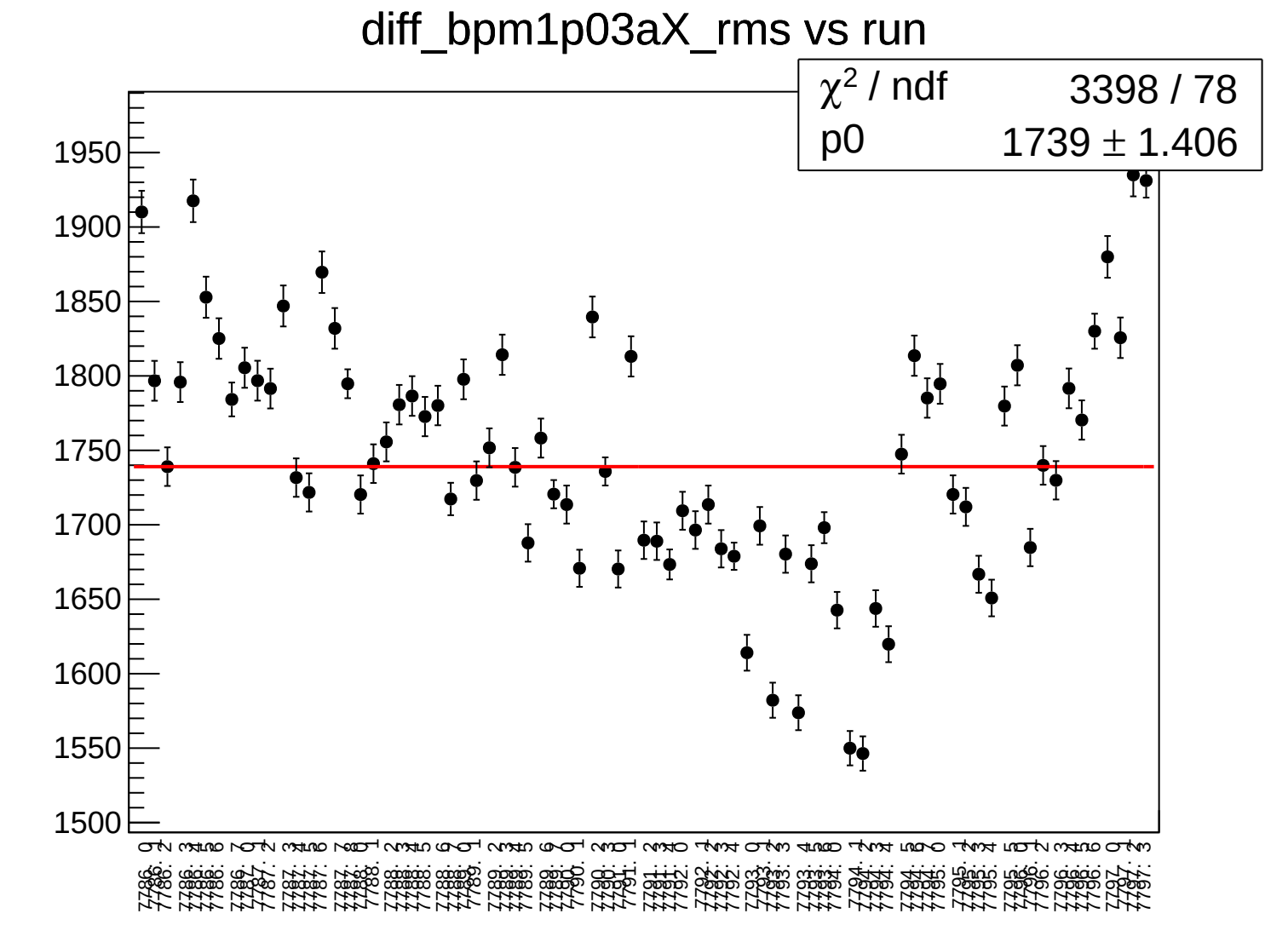

diff_bpm1p02bY_mean vs run
χ² / ndf 95.91 / 78
p0 2.42 ± 2.186
pull
Entries 79
Mean −1.8e+04
Std Dev 0

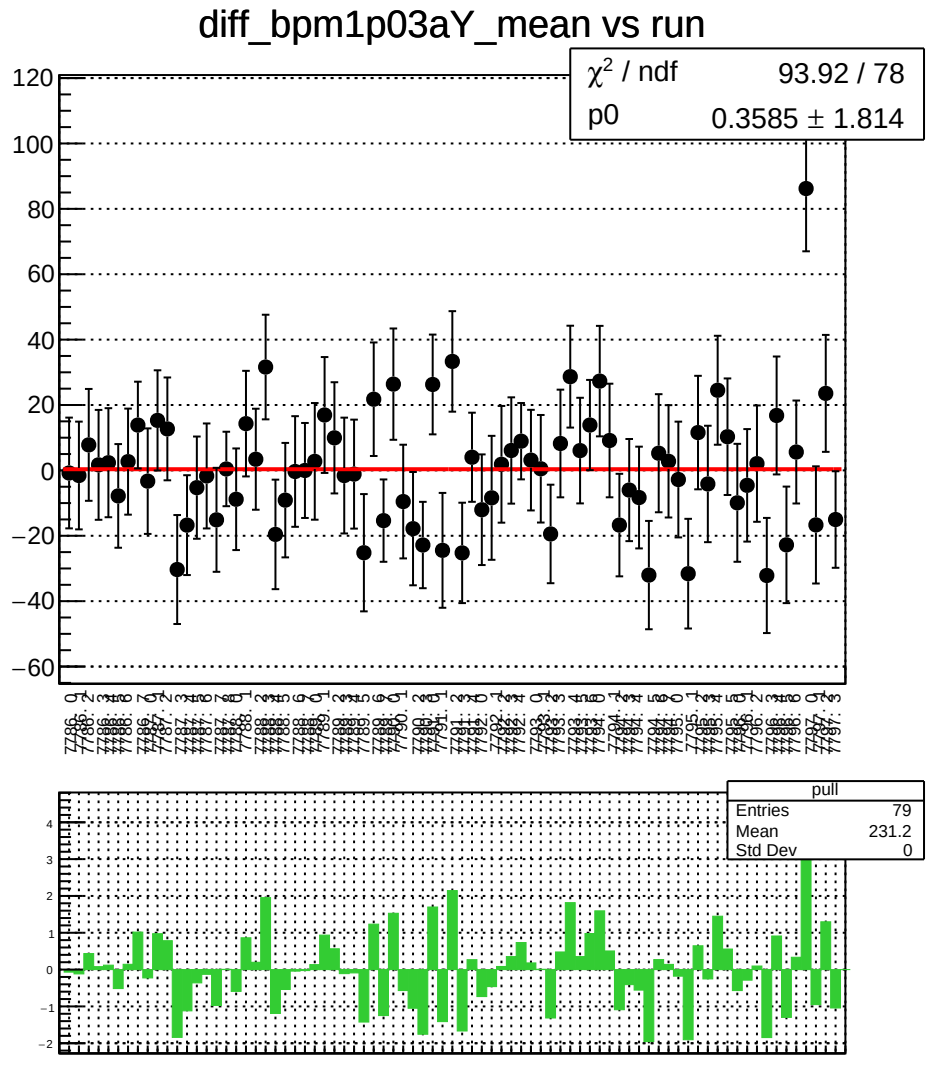

pull1D
Entries 79
Mean 0.0001023
Std Dev 1.102

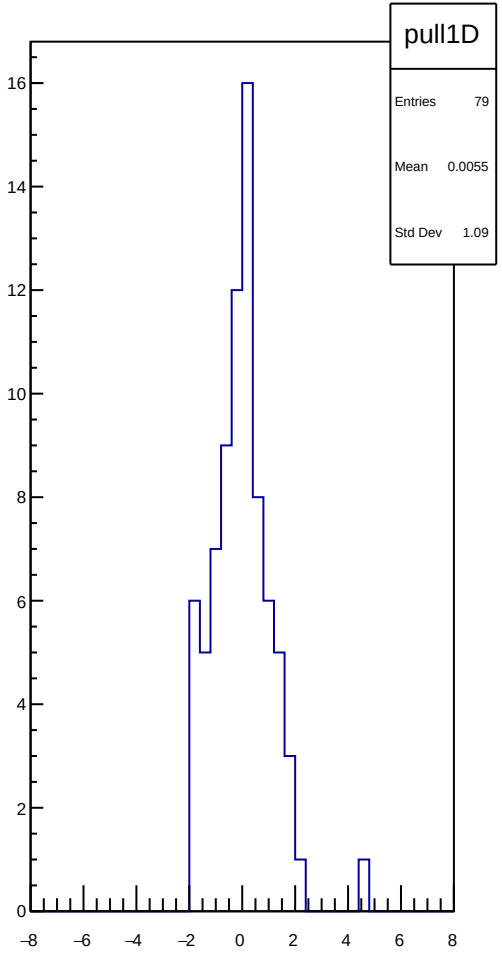

diff_bpm1p02bY_rms vs run
χ² / ndf 4779 / 78
p0 1911 ± 1.546
2200
2100
2000
1900
1800
1700

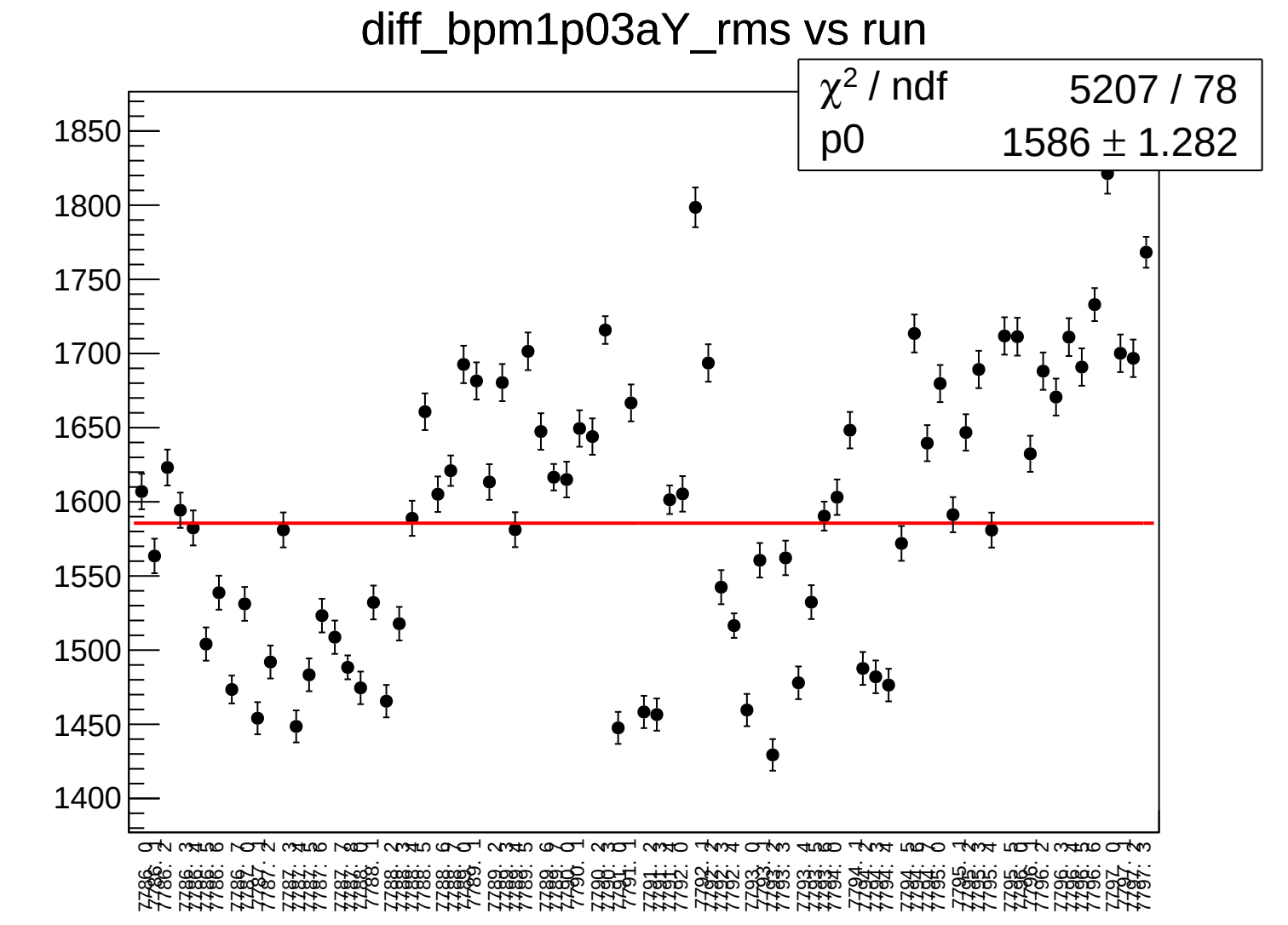

diff_bpm1p03aX_mean vs run
χ² / ndf 89.12 / 78
p0 −1.908 ± 1.988
pull
Entries 79
Mean −36.58
Std Dev 0

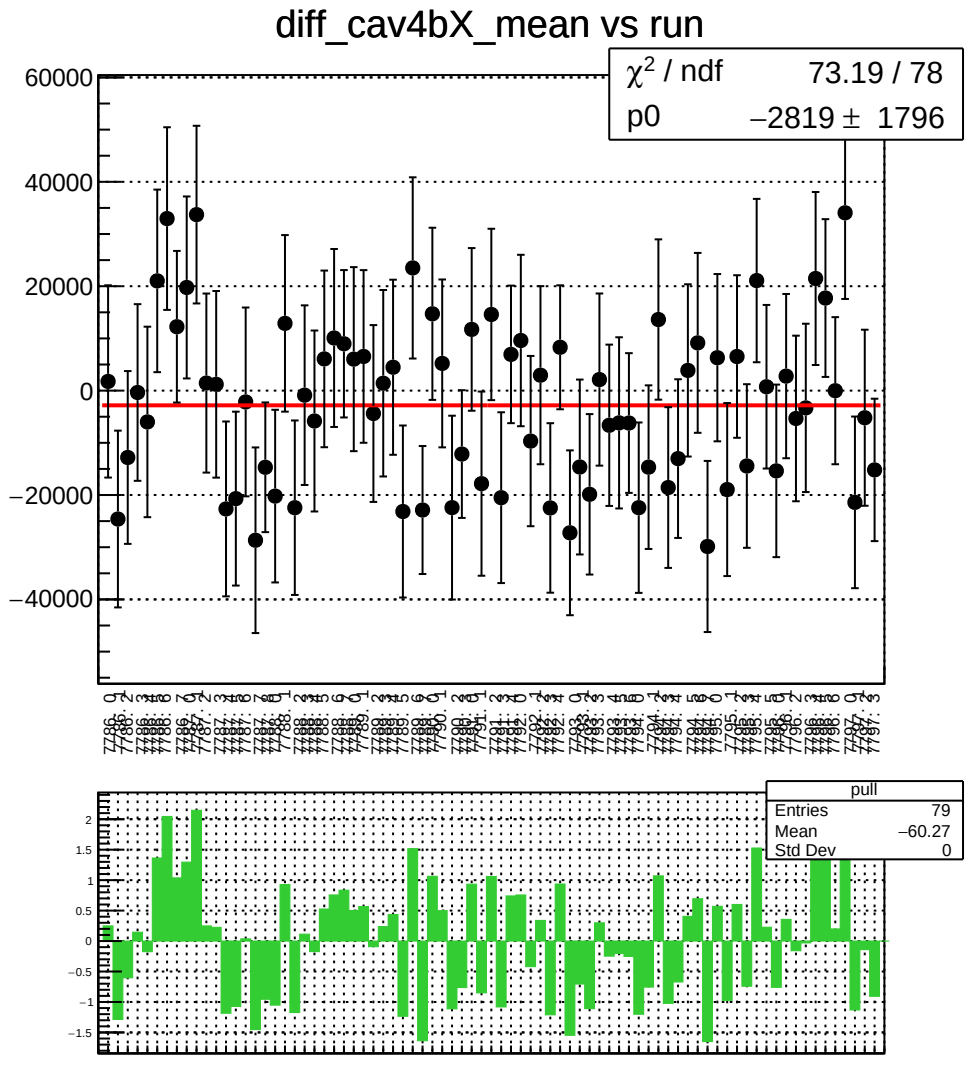

pull1D
Entries 79
Mean 0.01813
Std Dev 1.062

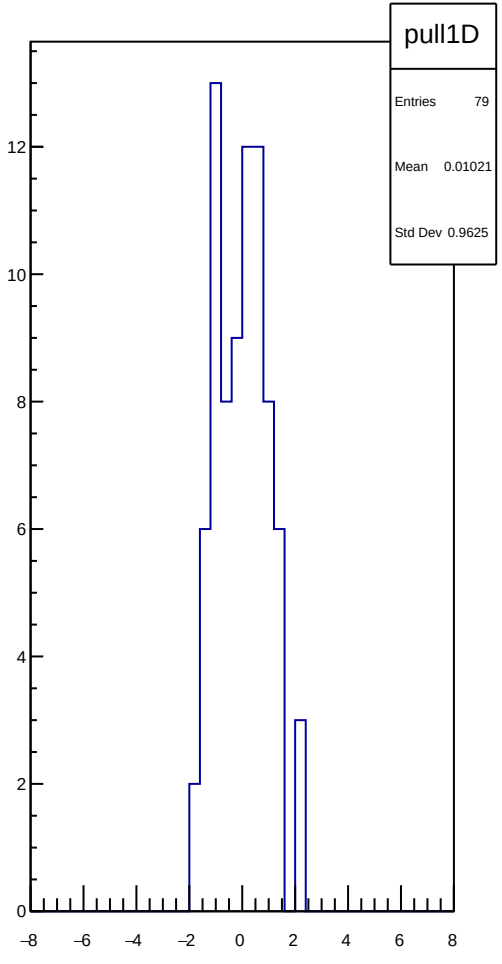

diff_bpm1p03aX_rms vs run
χ² / ndf 3398 / 78
p0 1739 ± 1.406
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

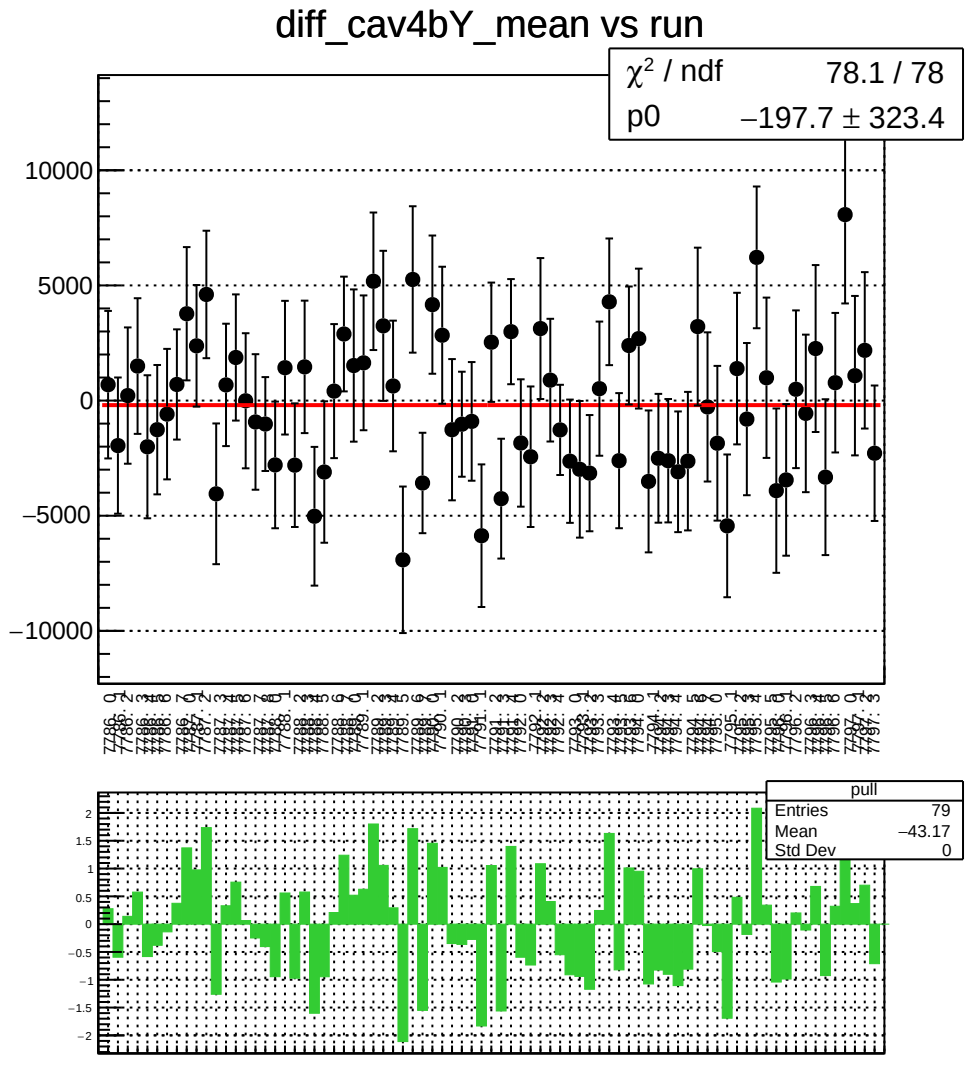

diff_bpm1p03aY_mean vs run
χ² / ndf 93.92 / 78
p0 0.3585 ± 1.814
pull
Entries 79
Mean 231.2
Std Dev 0

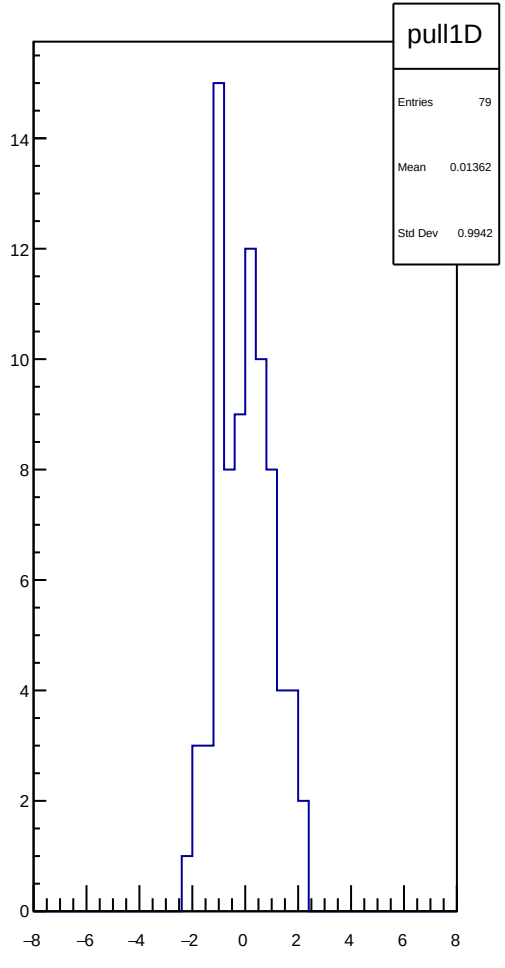

pull1D
Entries 79
Mean 0.0055
Std Dev 1.09

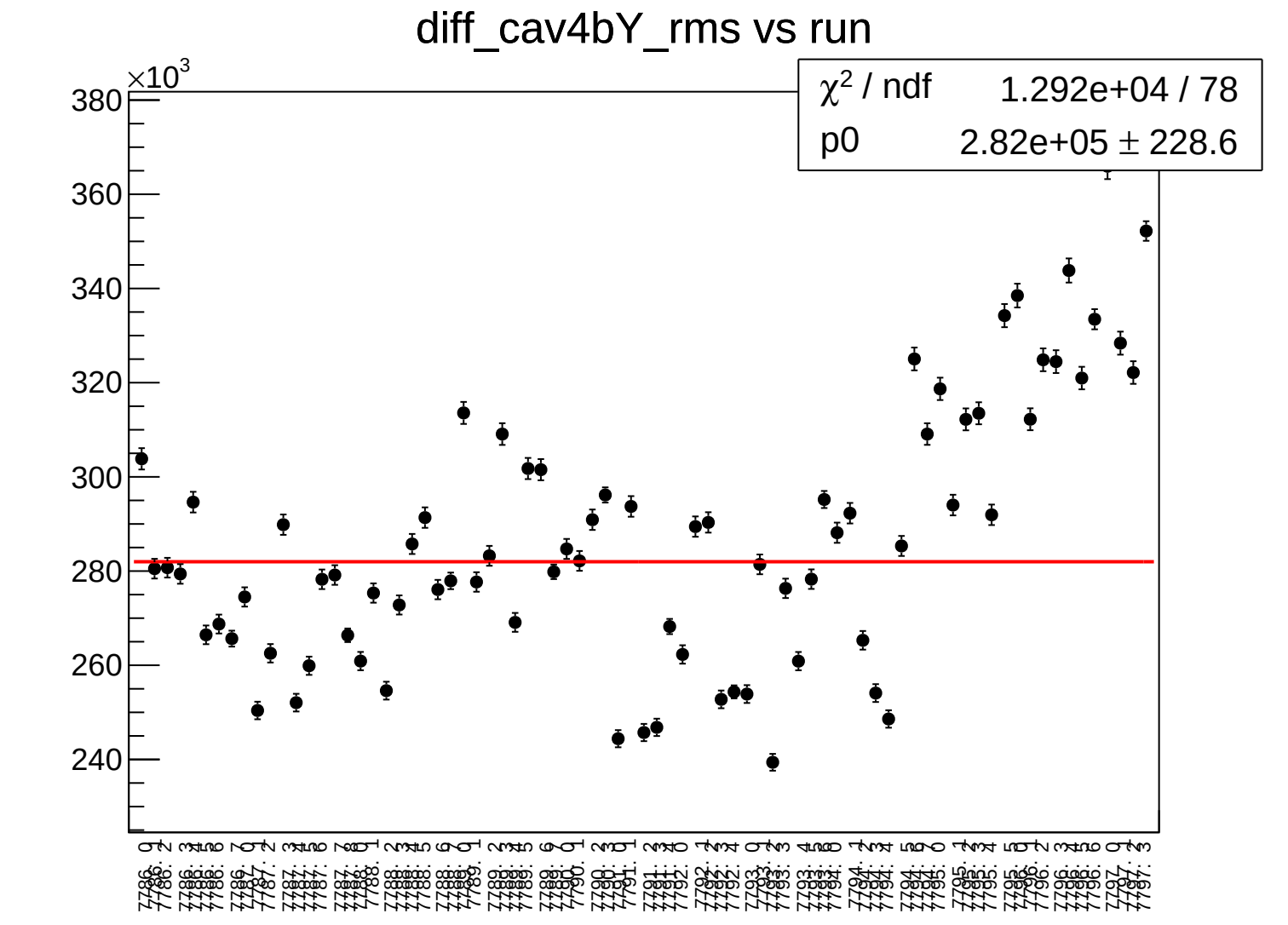

diff_bpm1p03aY_rms vs run
χ^2 / ndf 5207 / 78
p0 1586 ± 1.282
1850
1800
1750
1700
1650
1600
1550
1500
1450
1400

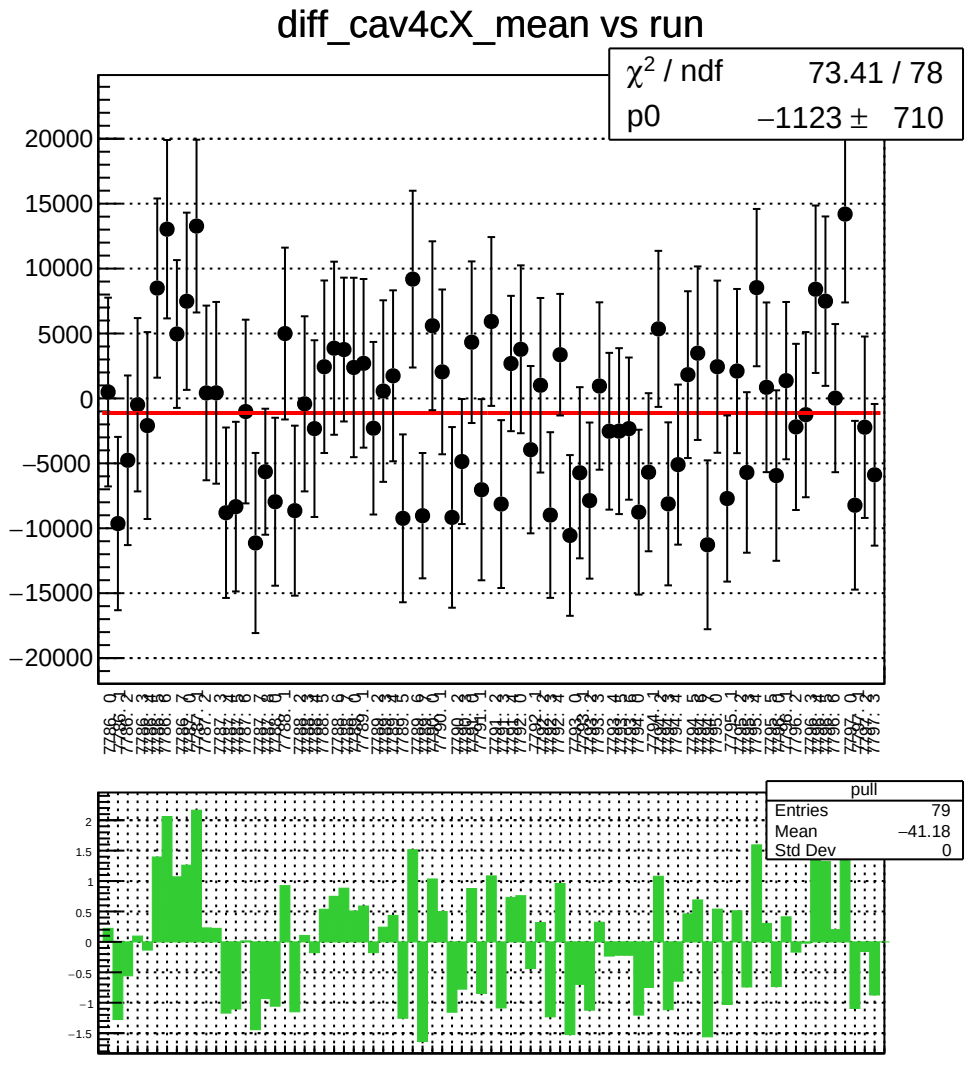

diff_cav4bX_mean vs run
χ² / ndf 73.19 / 78
p0 −2819 ± 1796
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −60.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

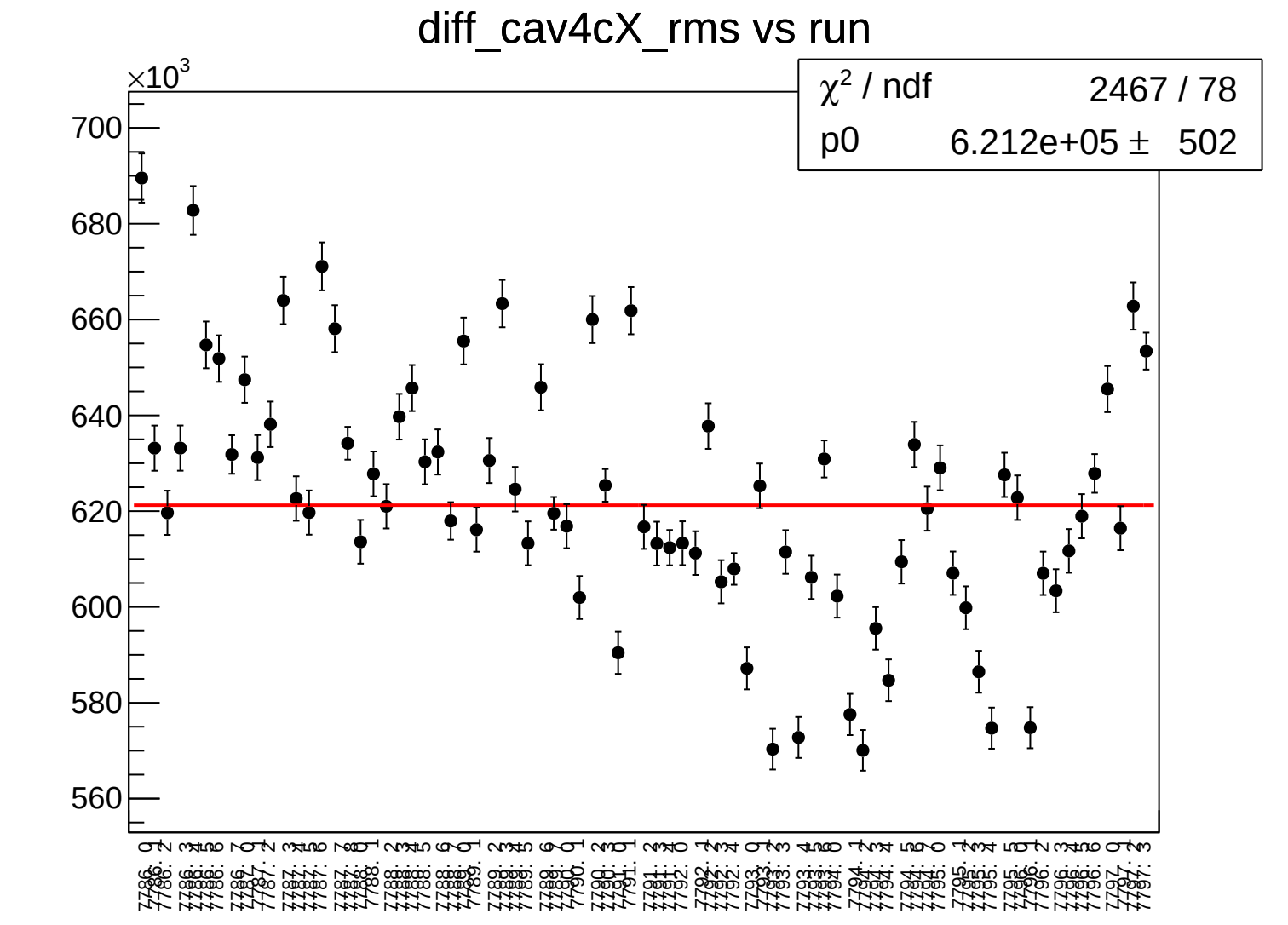

pull1D
Entries 79
Mean 0.01021
Std Dev 0.9625
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

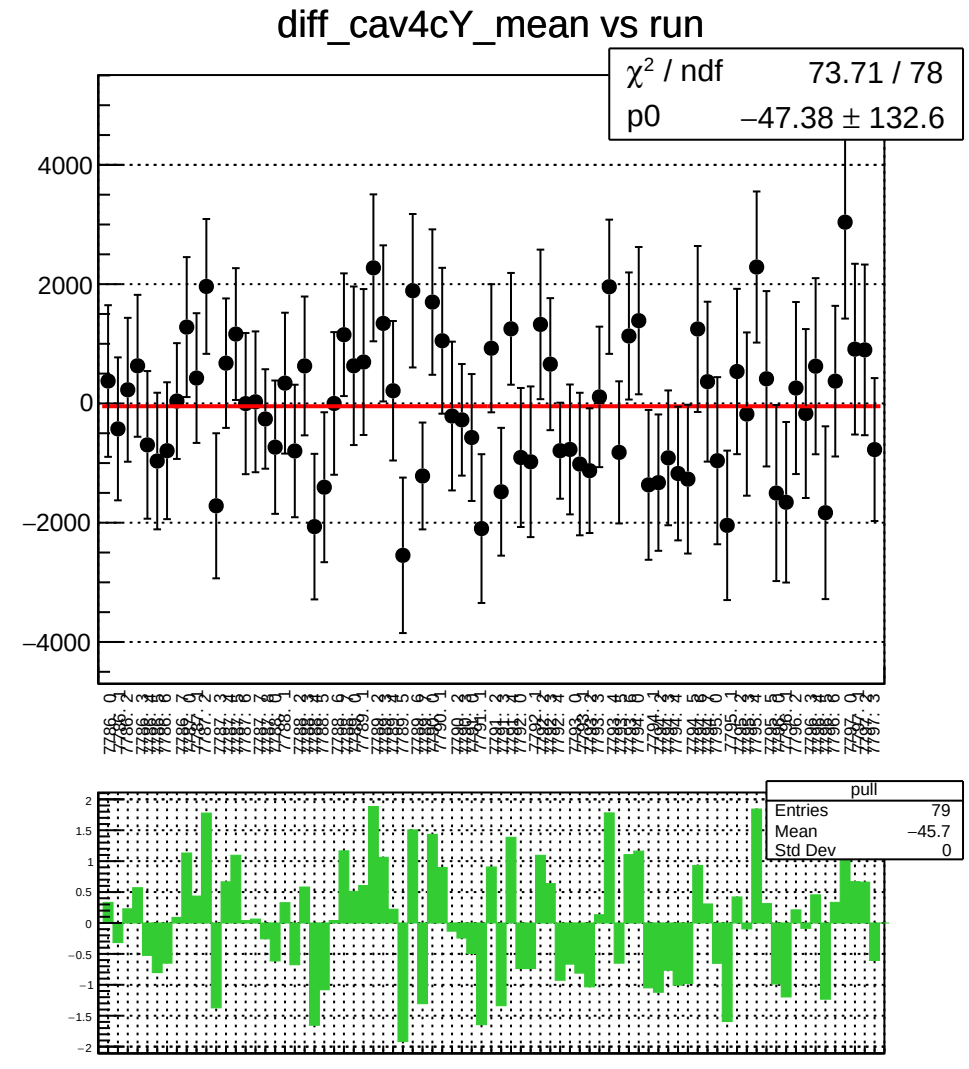

diff_cav4bY_mean vs run
χ² / ndf 78.1 / 78
p0 −197.7 ± 323.4
10000
5000
0
−5000
−10000
pull
Entries 79
Mean −43.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

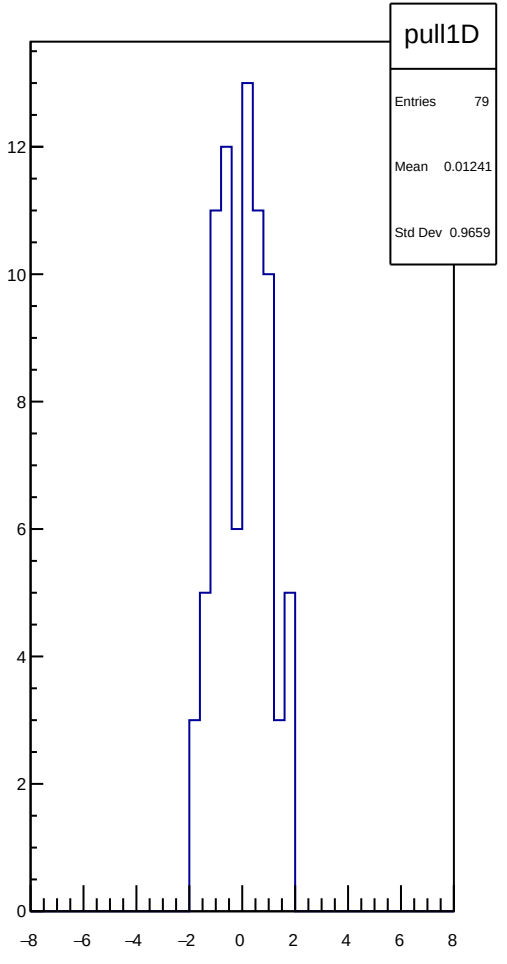

pull1D
Entries 79
Mean 0.01362
Std Dev 0.9942
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

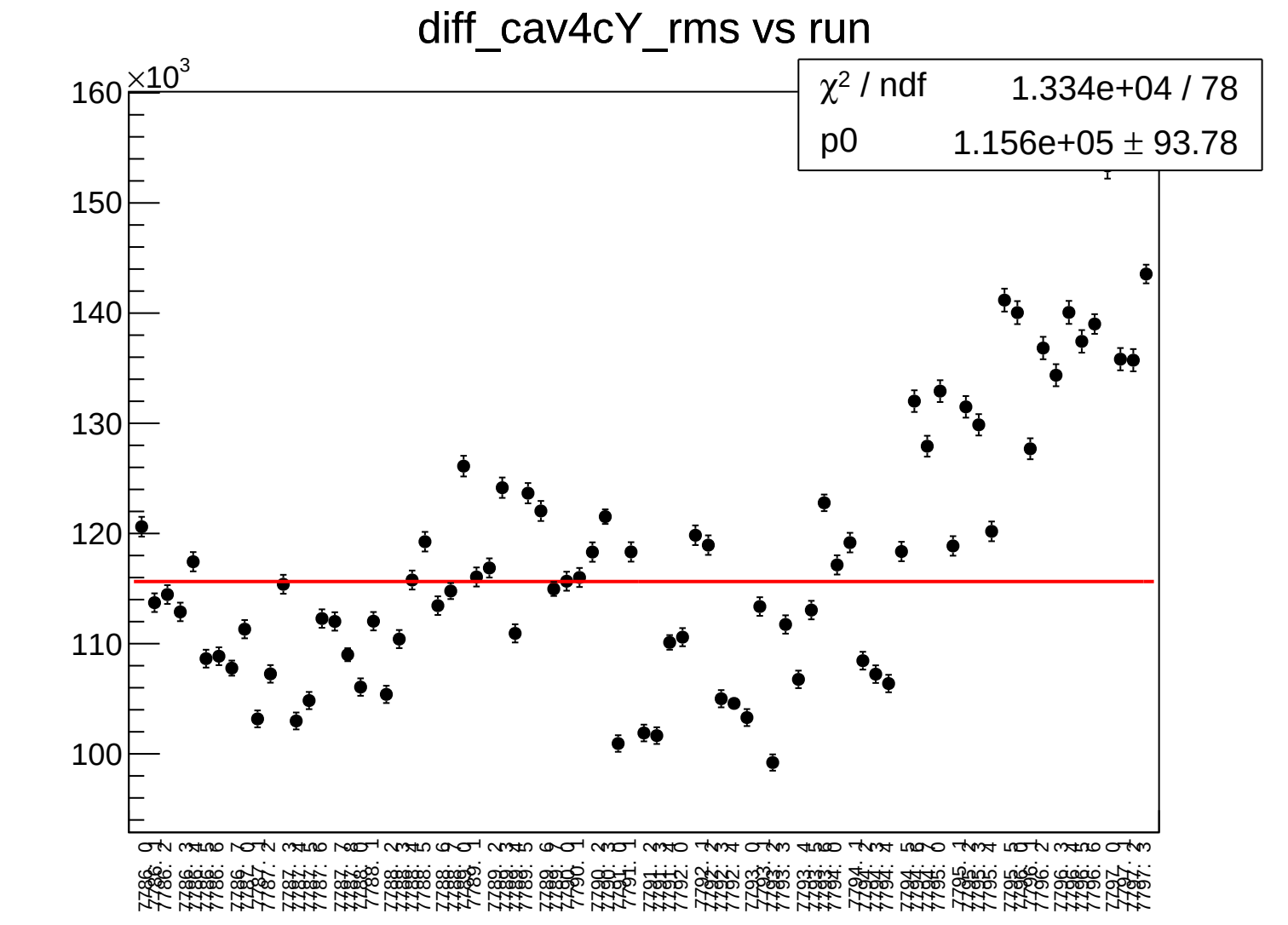

diff_cav4bY_rms vs run
×10^3
380
360
340
320
300
280
260
240
χ² / ndf 1.292e+04 / 78
p0 2.82e+05 ± 228.6

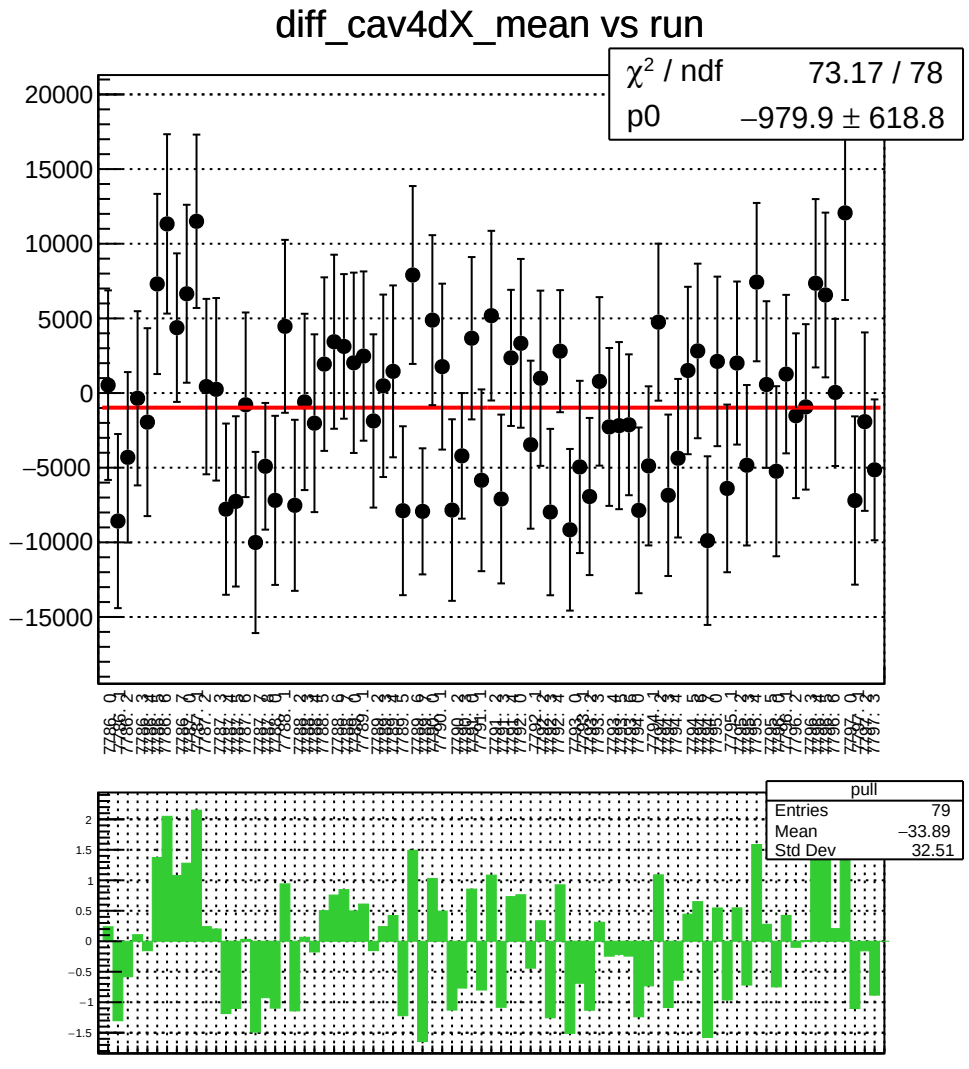

diff_cav4cX_mean vs run
χ² / ndf 73.41 / 78
p0 −1123 ± 710
pull
Entries 79
Mean −41.18
Std Dev 0
pull1D
Entries 79
Mean 0.01181
Std Dev 0.9639

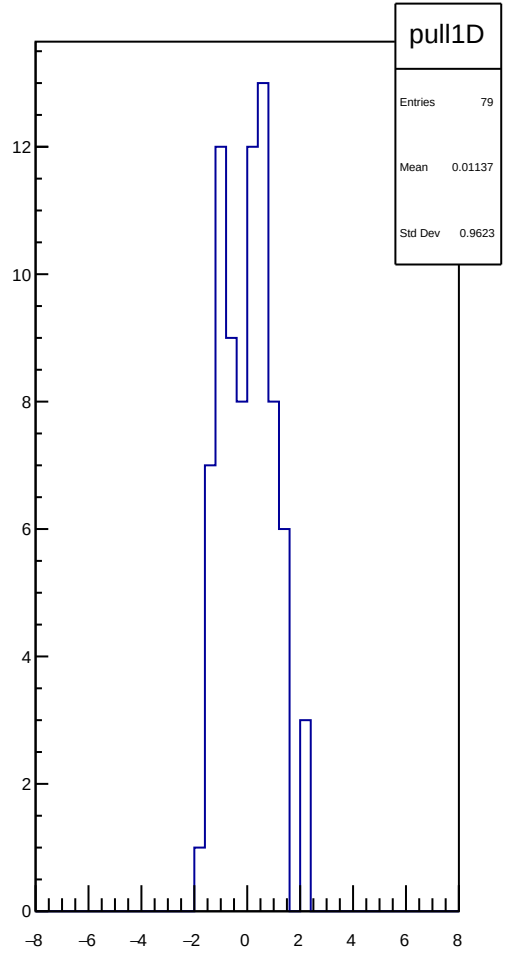

diff_cav4cX_rms vs run
×10^3
χ^2 / ndf 2467 / 78
p0 6.212e+05 ± 502
700
680
660
640
620
600
580
560

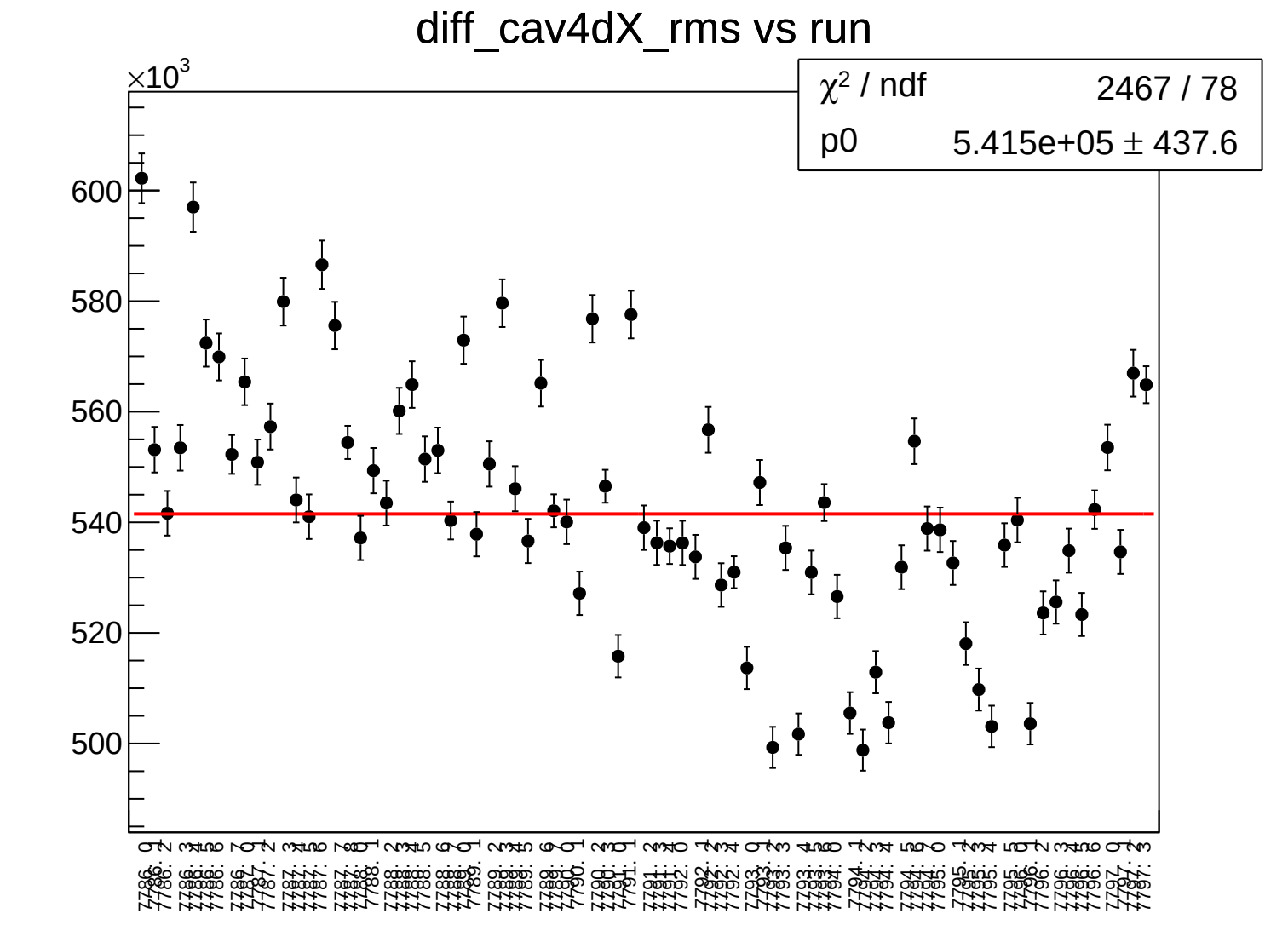

diff_cav4cY_mean vs run
χ² / ndf 73.71 / 78
p0 −47.38 ± 132.6
4000
2000
0
−2000
−4000
pull
Entries 79
Mean −45.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

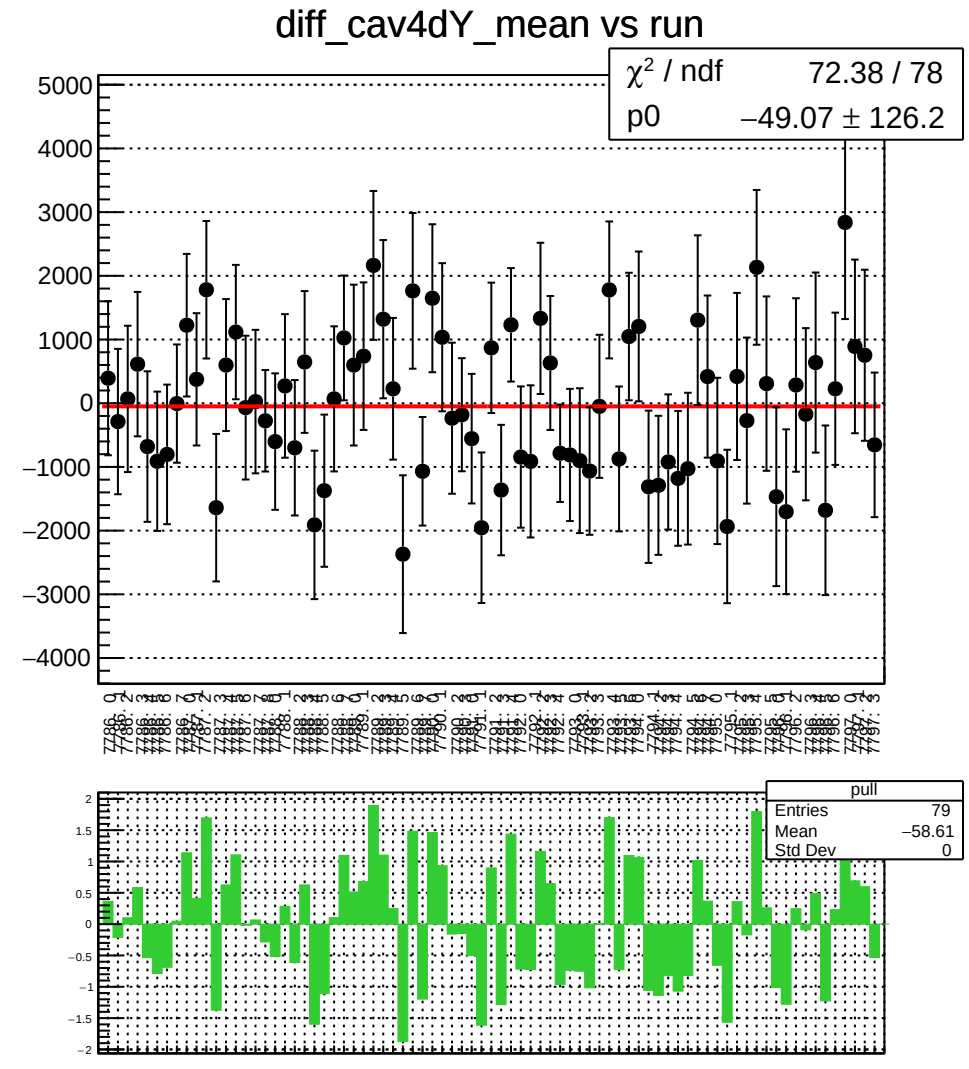

pull1D
Entries 79
Mean 0.01241
Std Dev 0.9659
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

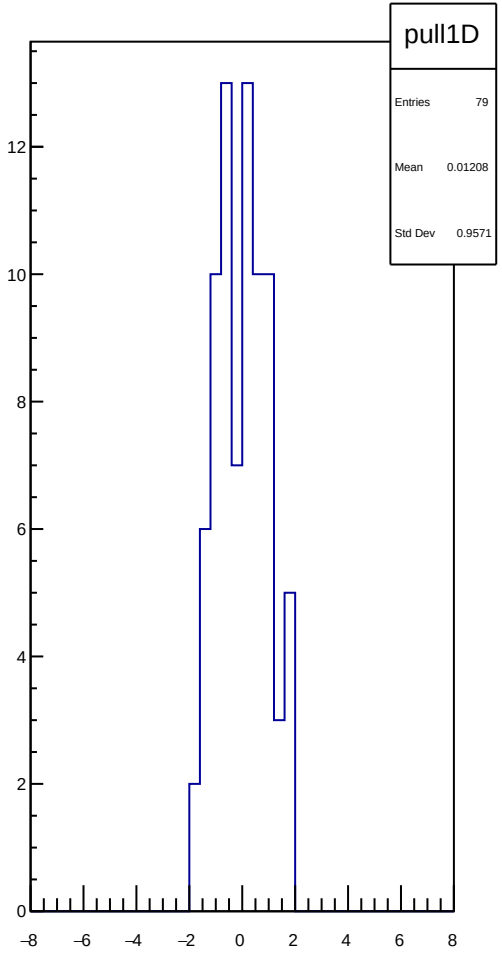

diff_cav4cY_rms vs run
χ^2 / ndf 1.334e+04 / 78
p0 1.156e+05 ± 93.78
×10^3
160
150
140
130
120
110
100

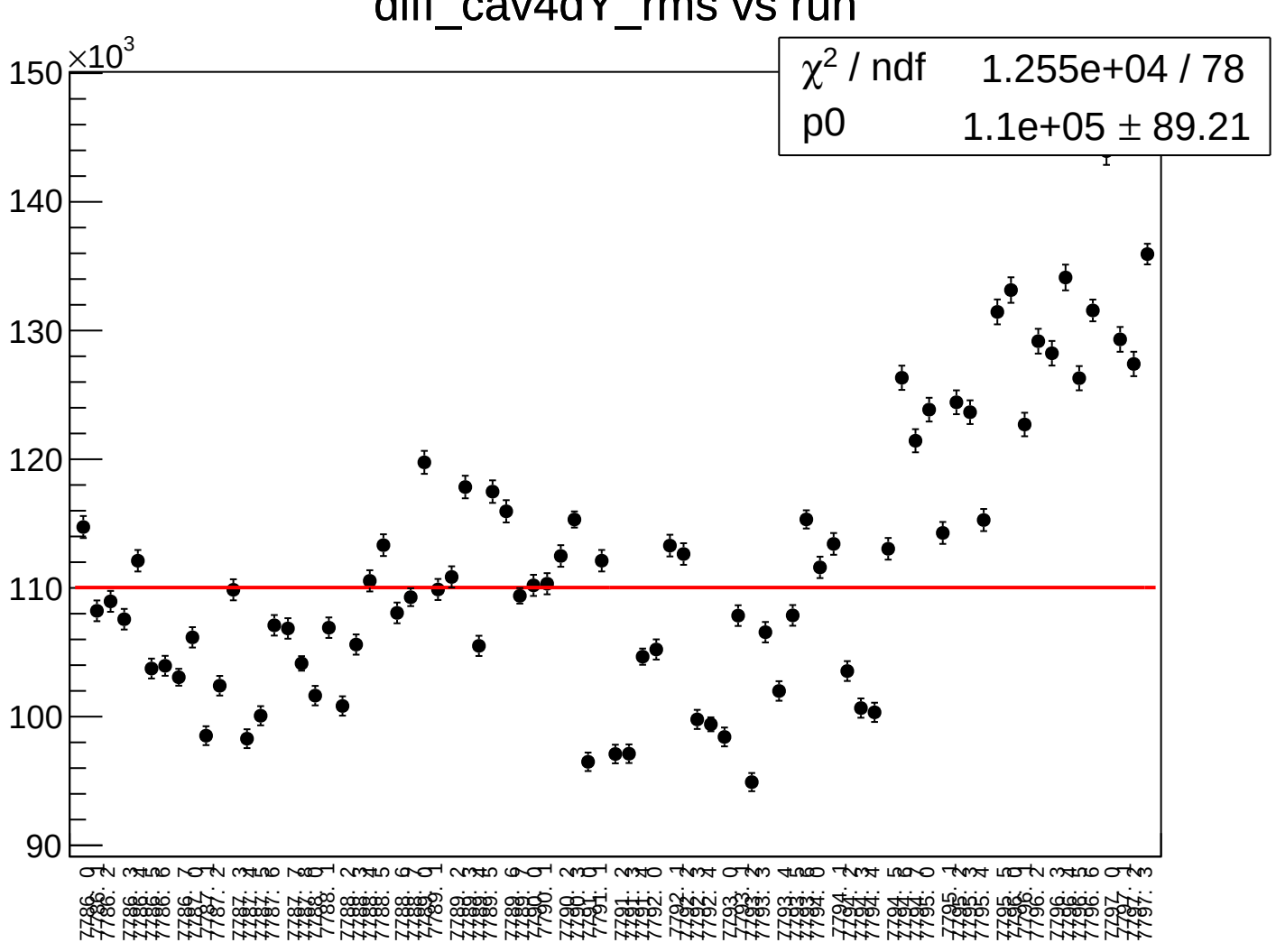

diff_cav4dX_mean vs run
χ² / ndf 73.17 / 78
p0 −979.9 ± 618.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean −33.89
Std Dev 32.51
2
1.5
1
0.5
0
−0.5
−1
−1.5

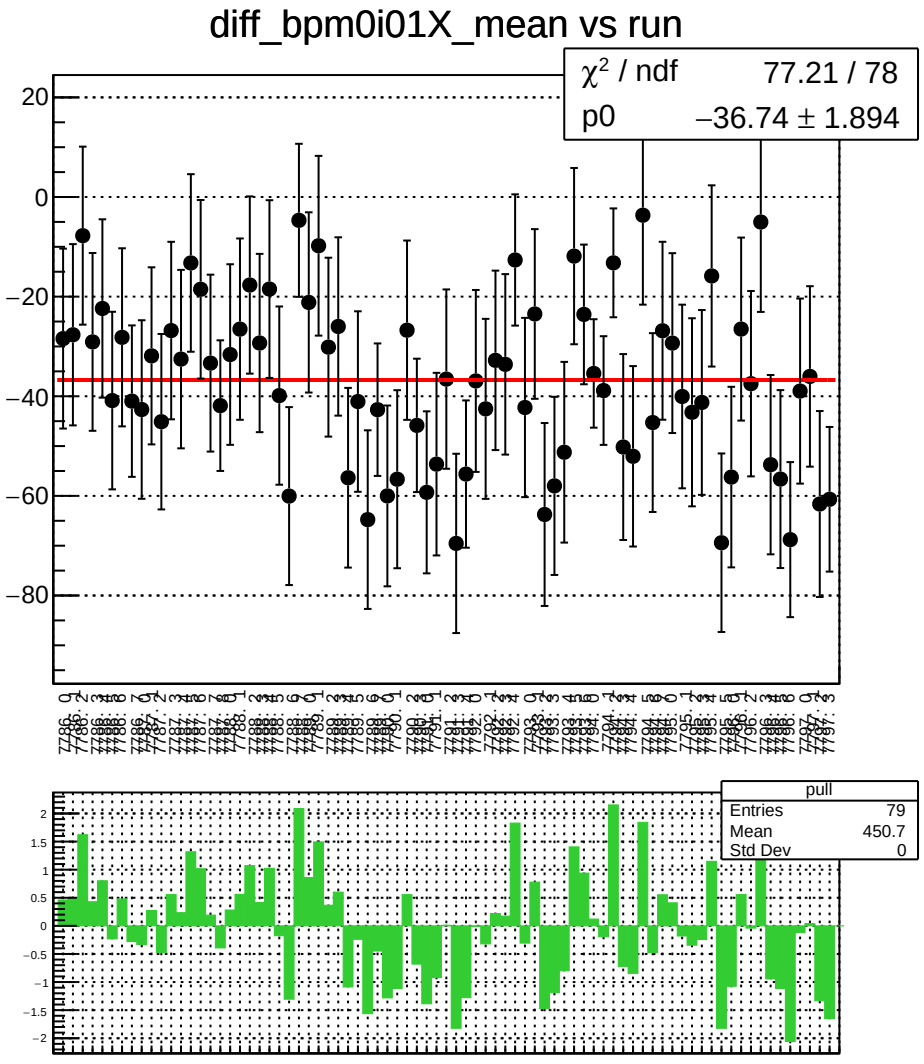

pull1D
Entries 79
Mean 0.01137
Std Dev 0.9623
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

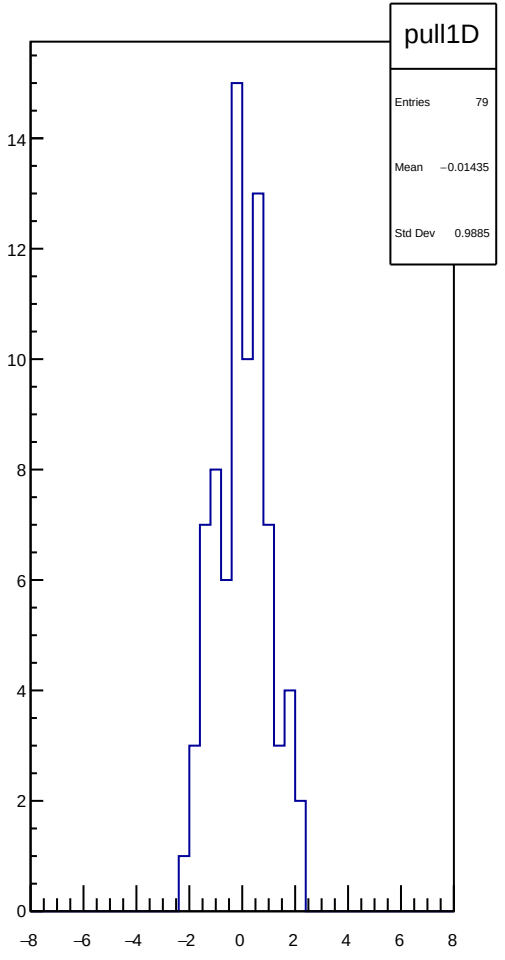

diff_cav4dX_rms vs run
×10^3
600
580
560
540
520
500
χ² / ndf 2467 / 78
p0 5.415e+05 ± 437.6

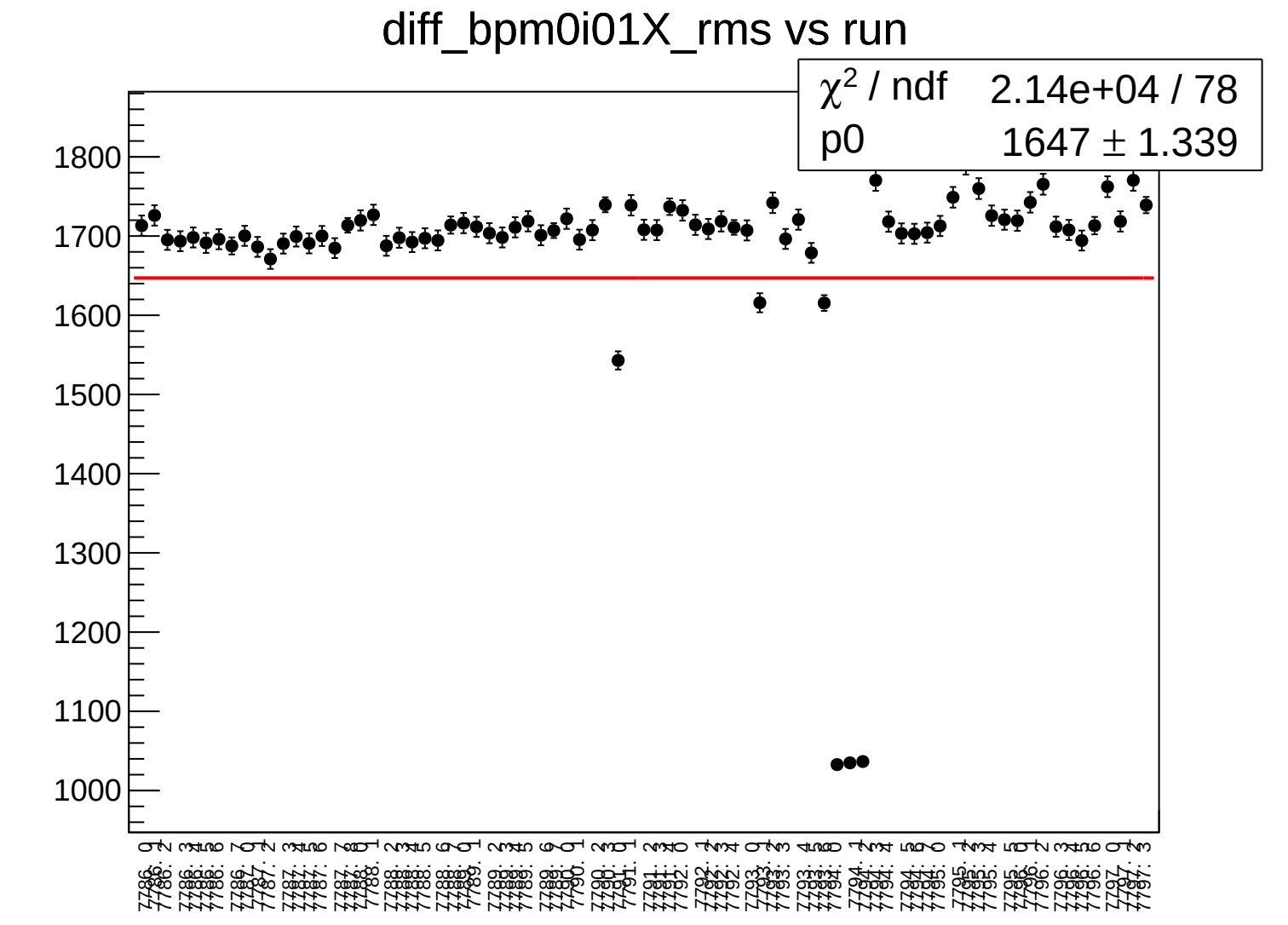

diff_cav4dY_mean vs run
χ² / ndf 72.38 / 78
p0 −49.07 ± 126.2
pull
Entries 79
Mean −58.61
Std Dev 0

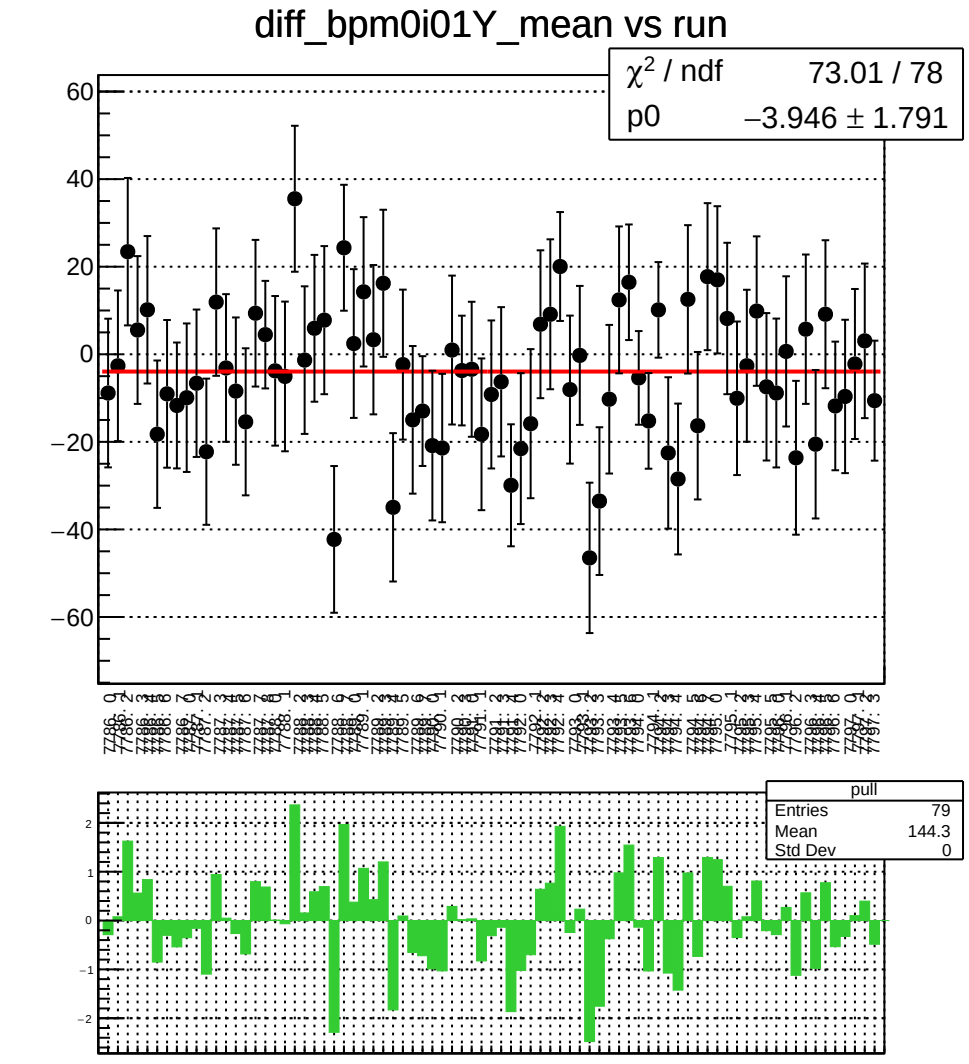

pull1D
Entries 79
Mean 0.01208
Std Dev 0.9571

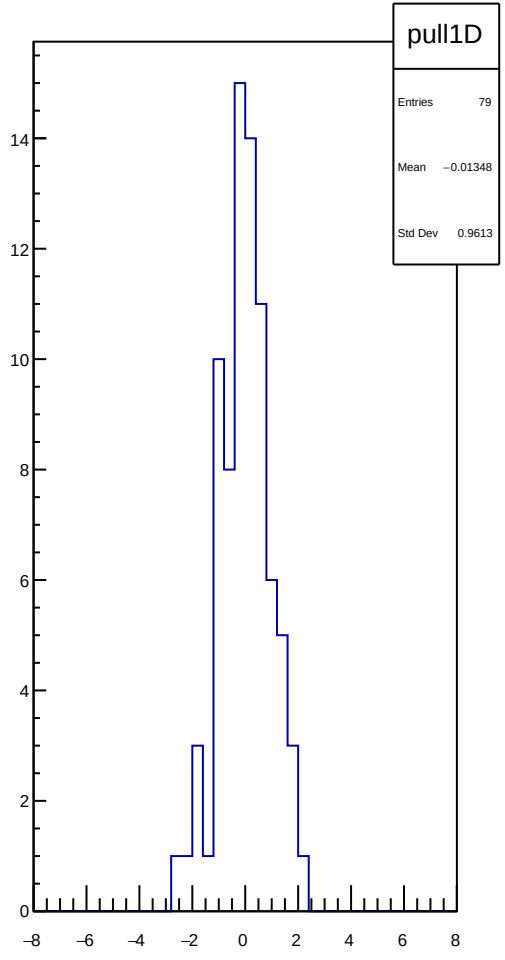

diff_cav4dY_rms vs run
×10^3
150
140
130
120
110
100
90
χ² / ndf 1.255e+04 / 78
p0 1.1e+05 ± 89.21

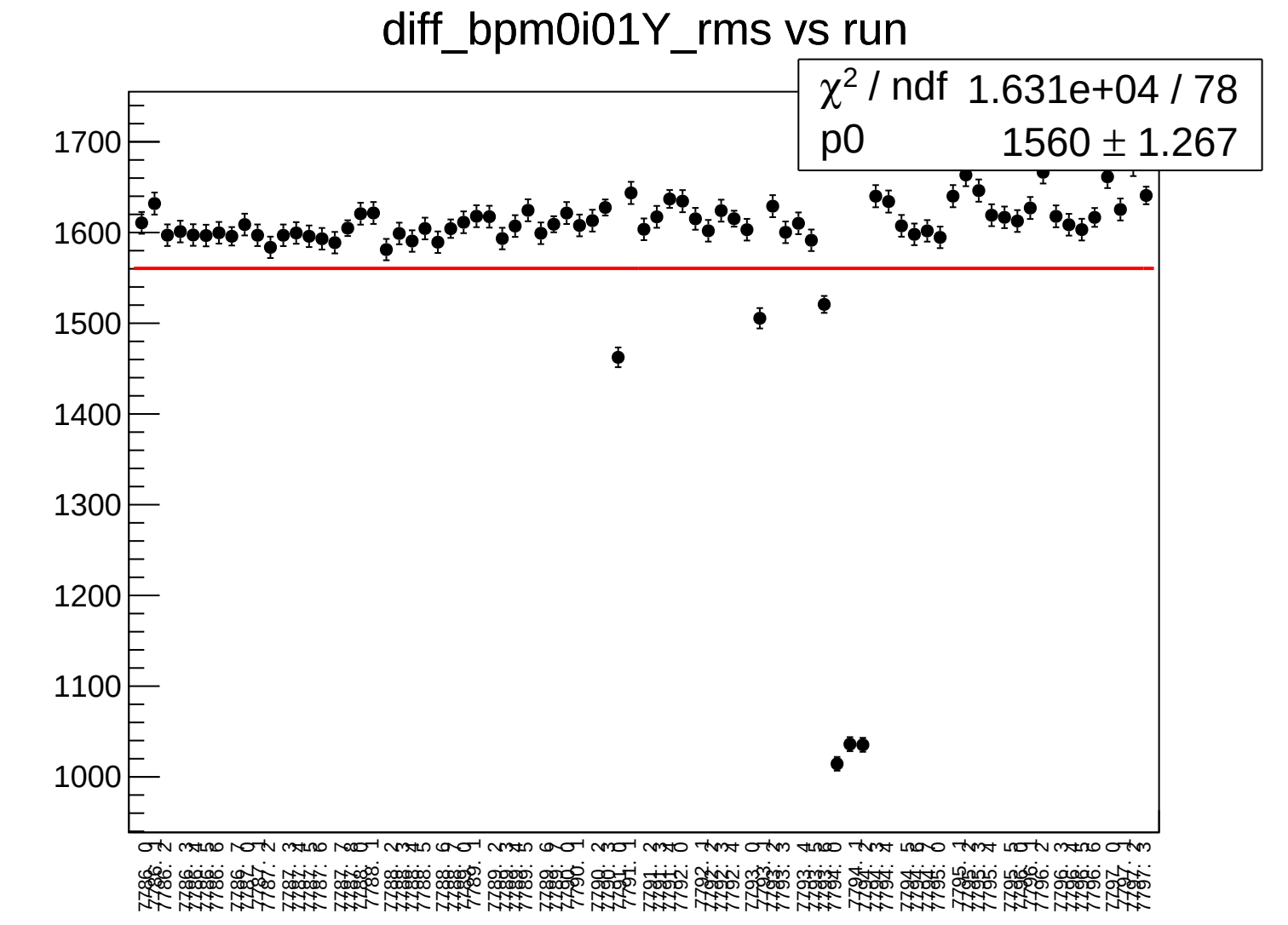

diff_bpm0i01X_mean vs run
χ² / ndf 77.21 / 78
p0 −36.74 ± 1.894
pull
Entries 79
Mean 450.7
Std Dev 0

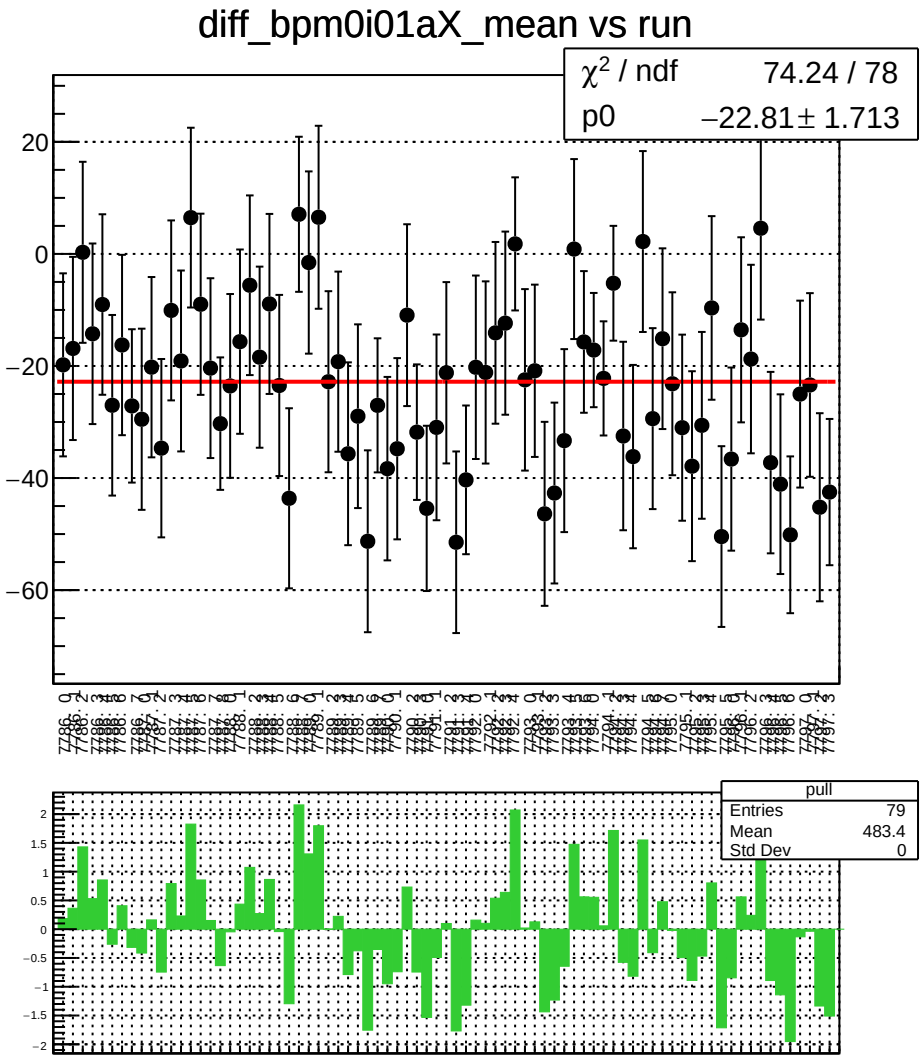

pull1D
Entries 79
Mean −0.01435
Std Dev 0.9885

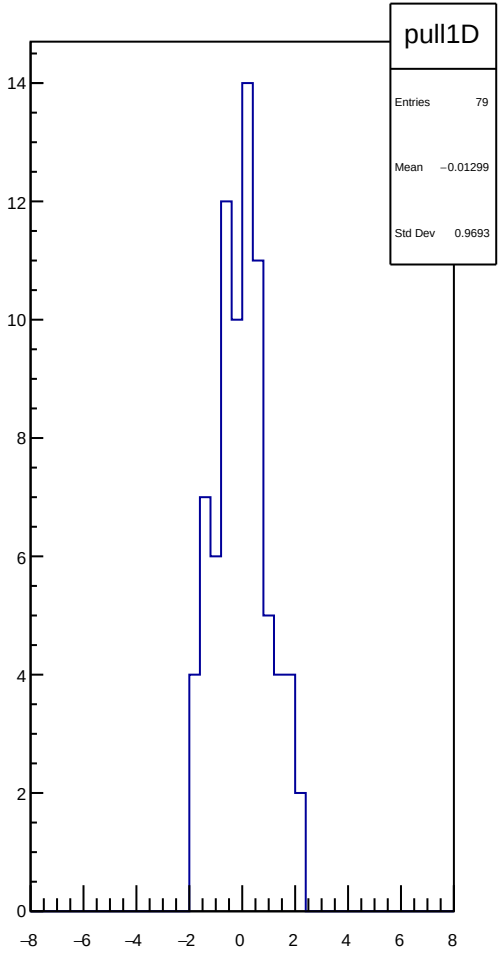

diff_bpm0i01X_rms vs run
χ² / ndf 2.14e+04 / 78
p0 1647 ± 1.339
1800
1700
1600
1500
1400
1300
1200
1100
1000

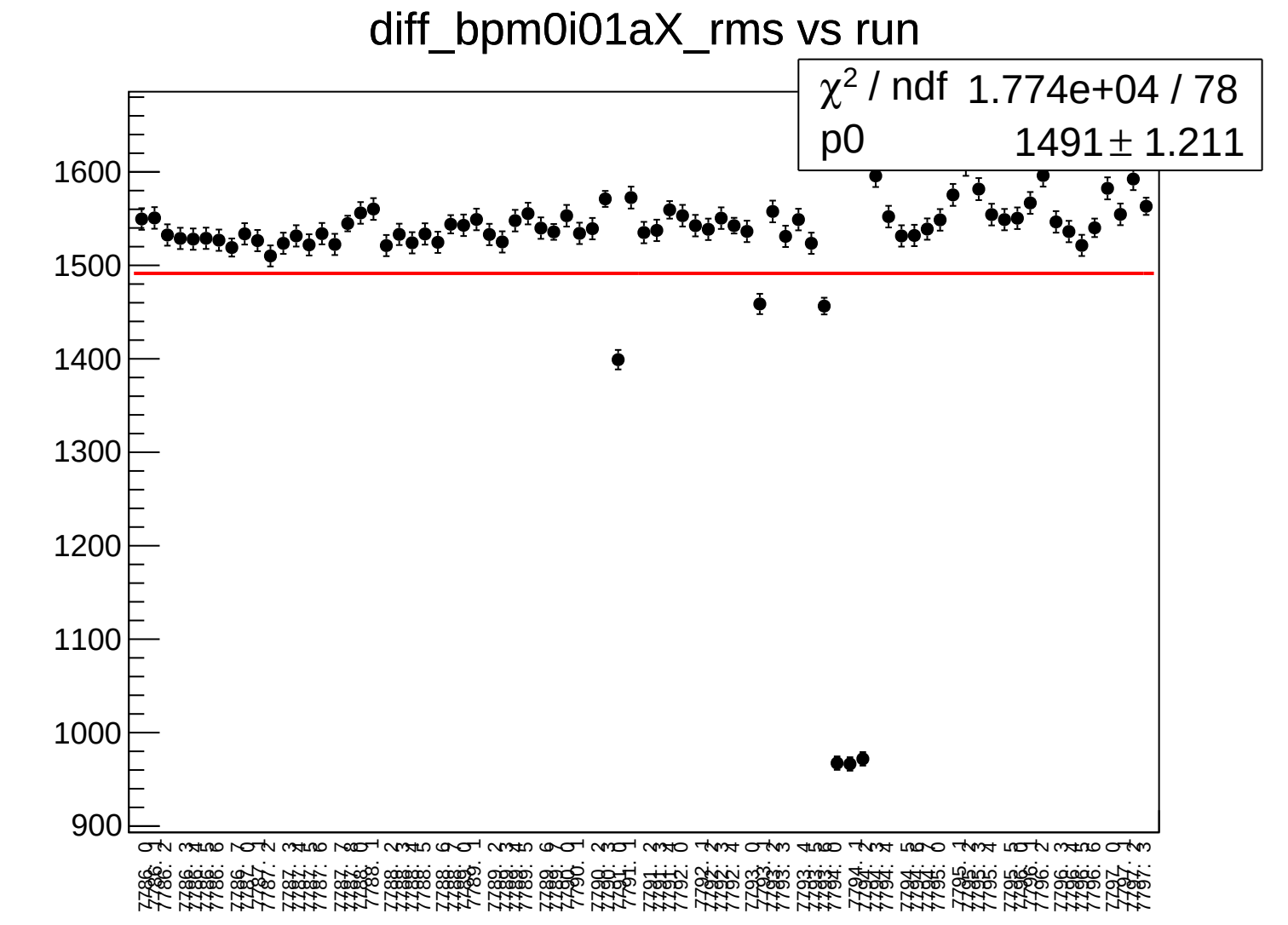

diff_bpm0i01Y_mean vs run
χ² / ndf 73.01 / 78
p0 −3.946 ± 1.791
pull
Entries 79
Mean 144.3
Std Dev 0

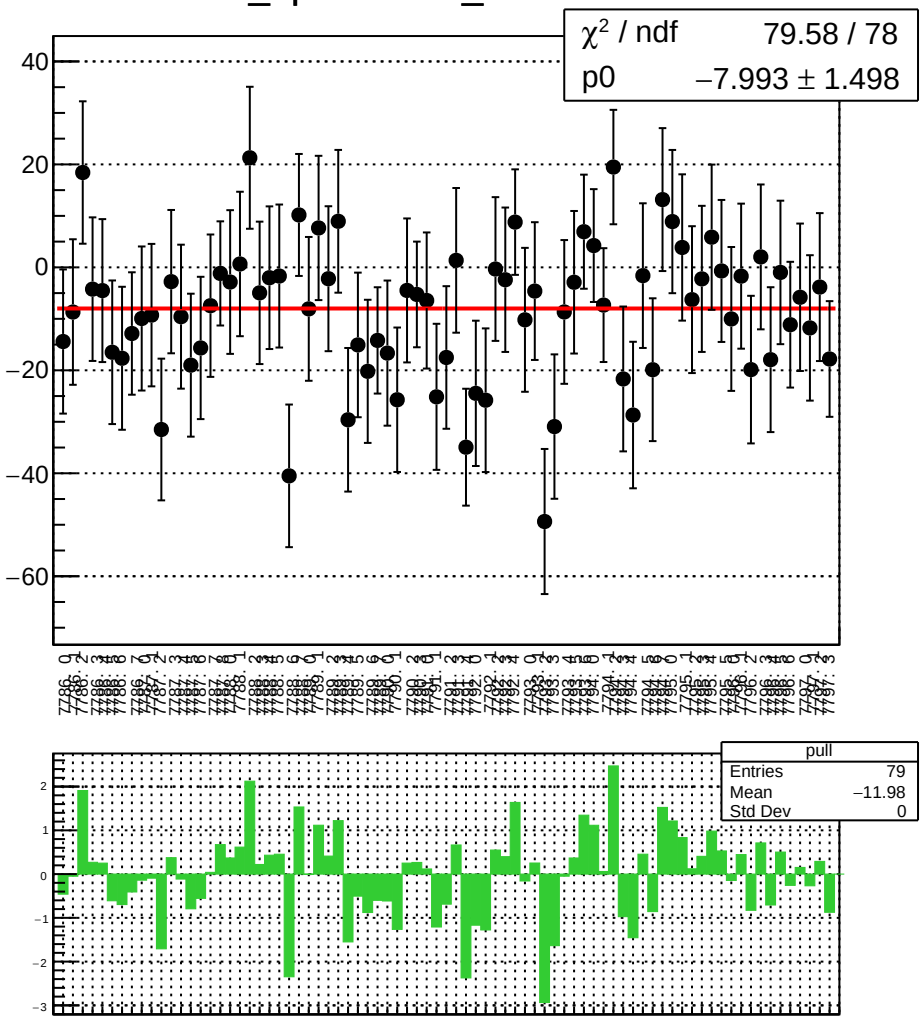

pull1D
Entries 79
Mean −0.01348
Std Dev 0.9613

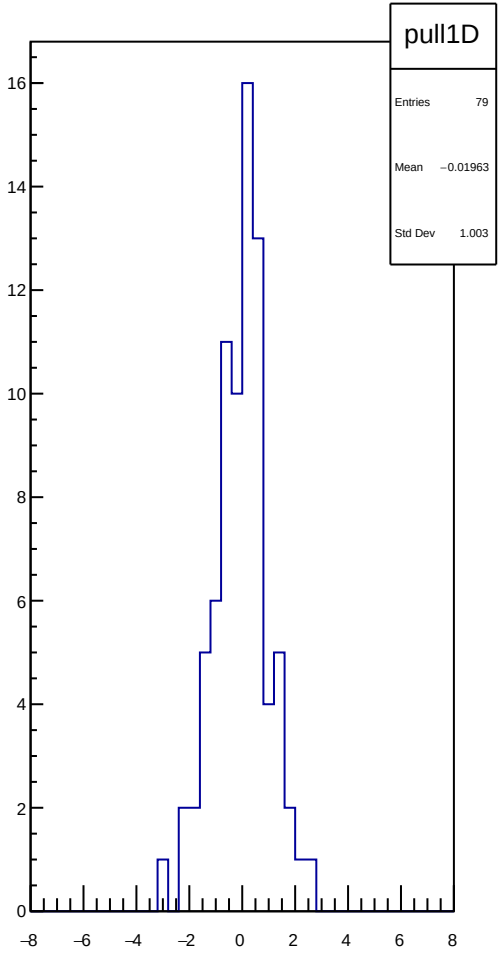

diff_bpm0i01Y_rms vs run
χ² / ndf 1.631e+04 / 78
p0 1560 ± 1.267
1700
1600
1500
1400
1300
1200
1100
1000

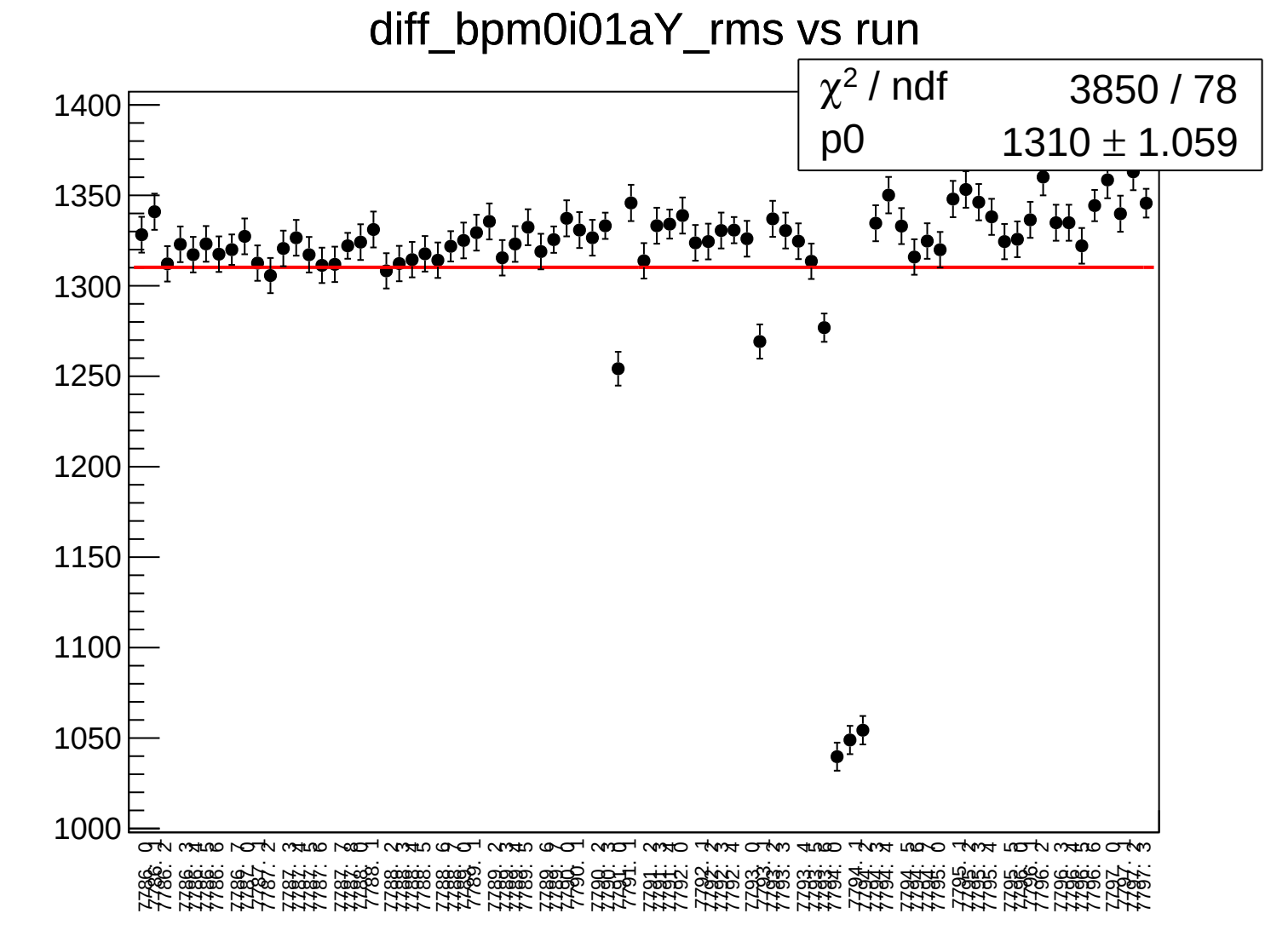

diff_bpm0i01aX_mean vs run
χ² / ndf 74.24 / 78
p0 −22.81 ± 1.713
pull
Entries 79
Mean 483.4
Std Dev 0

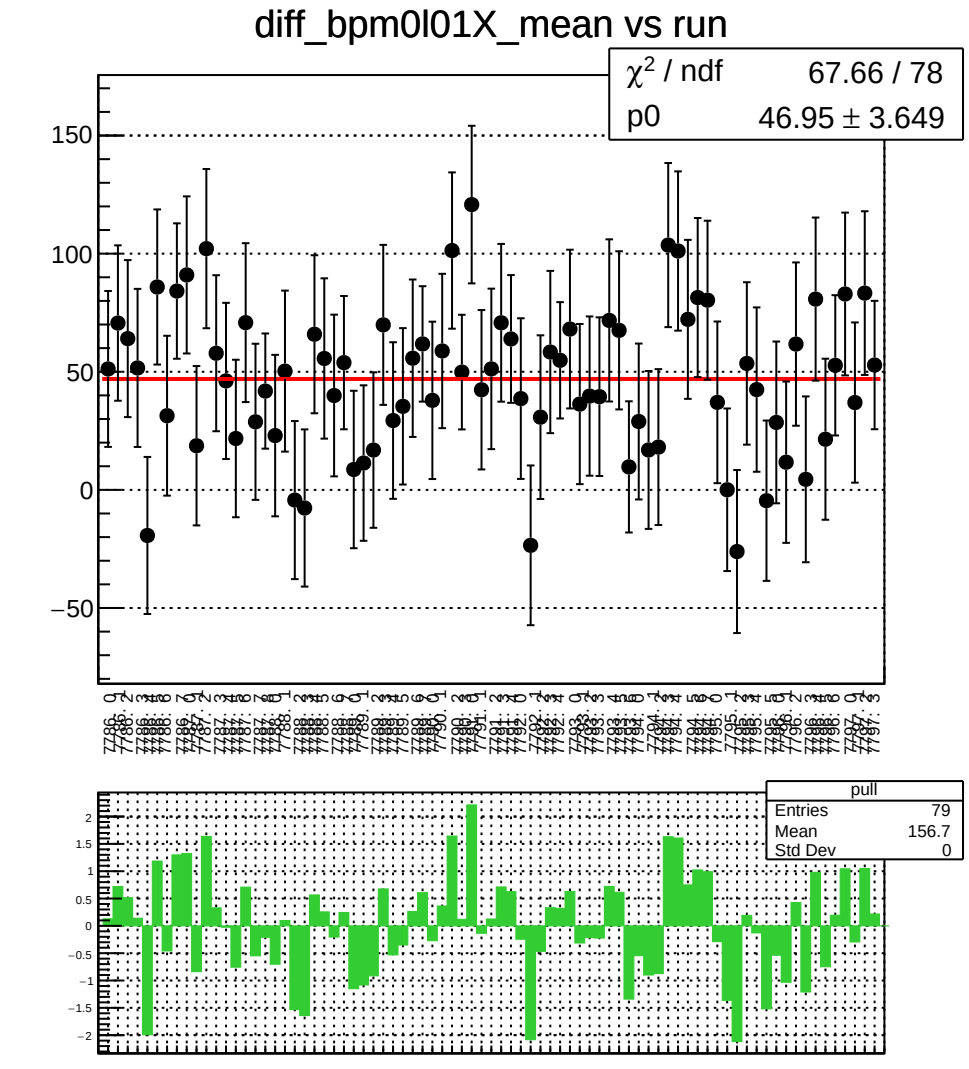

pull1D
Entries 79
Mean −0.01299
Std Dev 0.9693

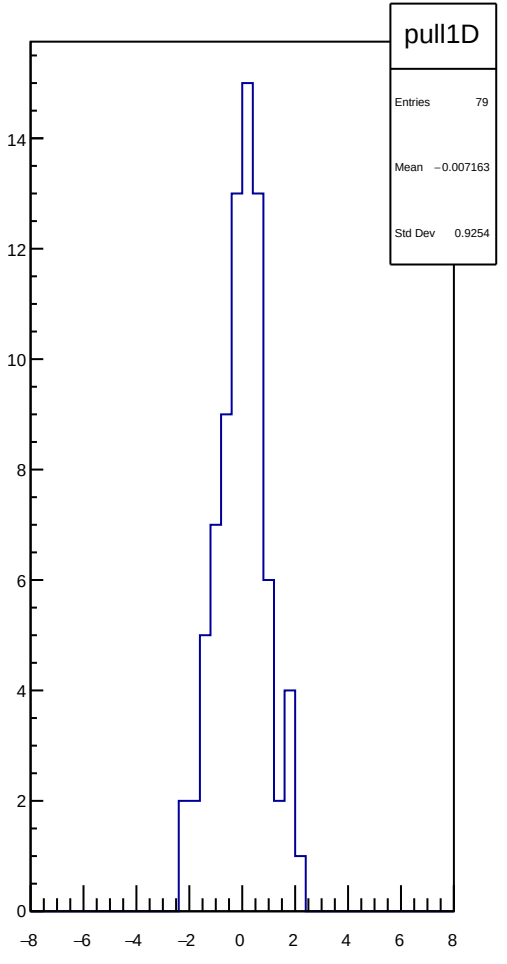

diff_bpm0i01aX_rms vs run
χ^2 / ndf 1.774e+04 / 78
p0 1491 ± 1.211
1600
1500
1400
1300
1200
1100
1000
900

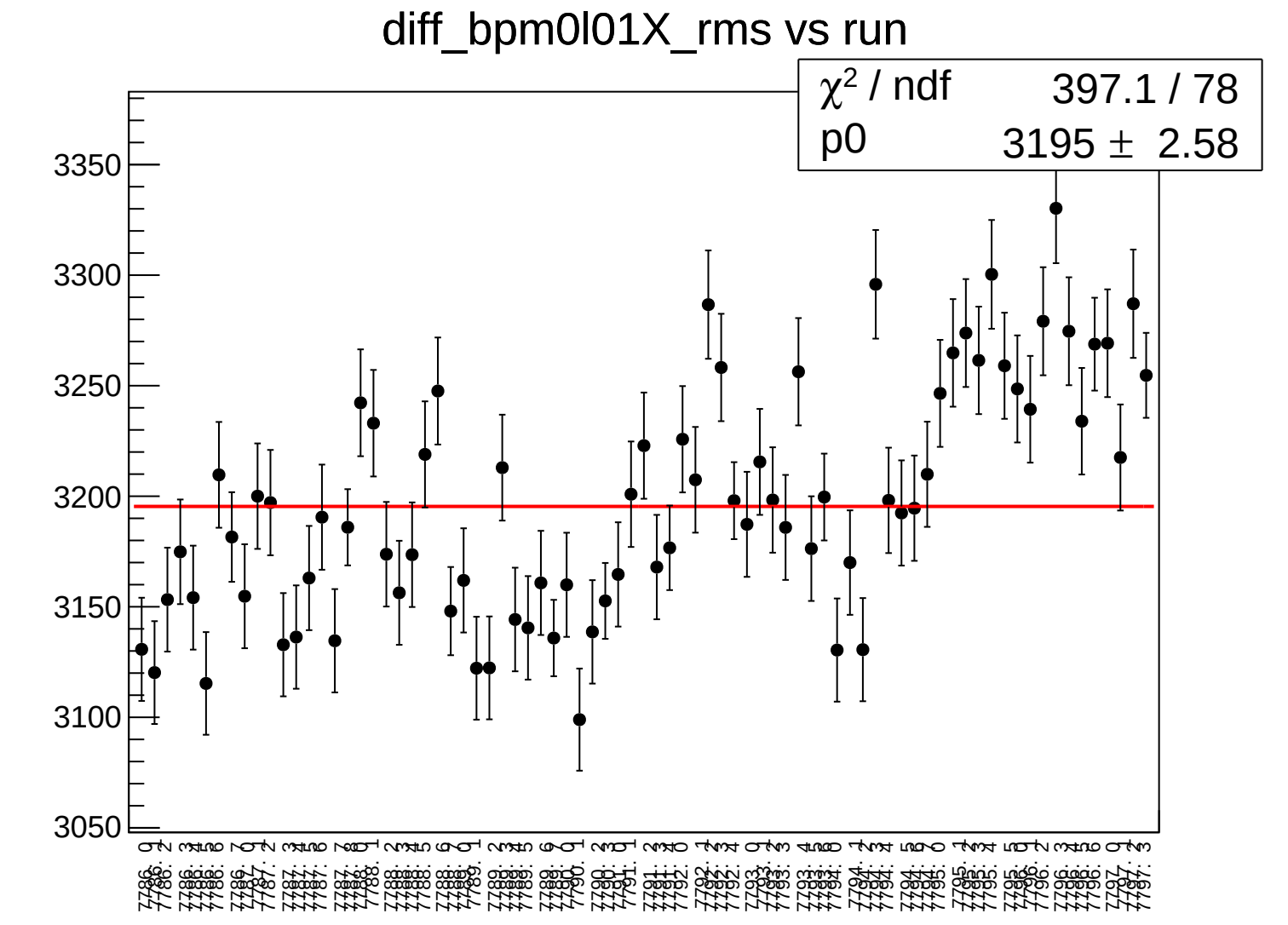

diff_bpm0i01aY_mean vs run
χ² / ndf 79.58 / 78
p0 −7.993 ± 1.498
pull
Entries 79
Mean −11.98
Std Dev 0

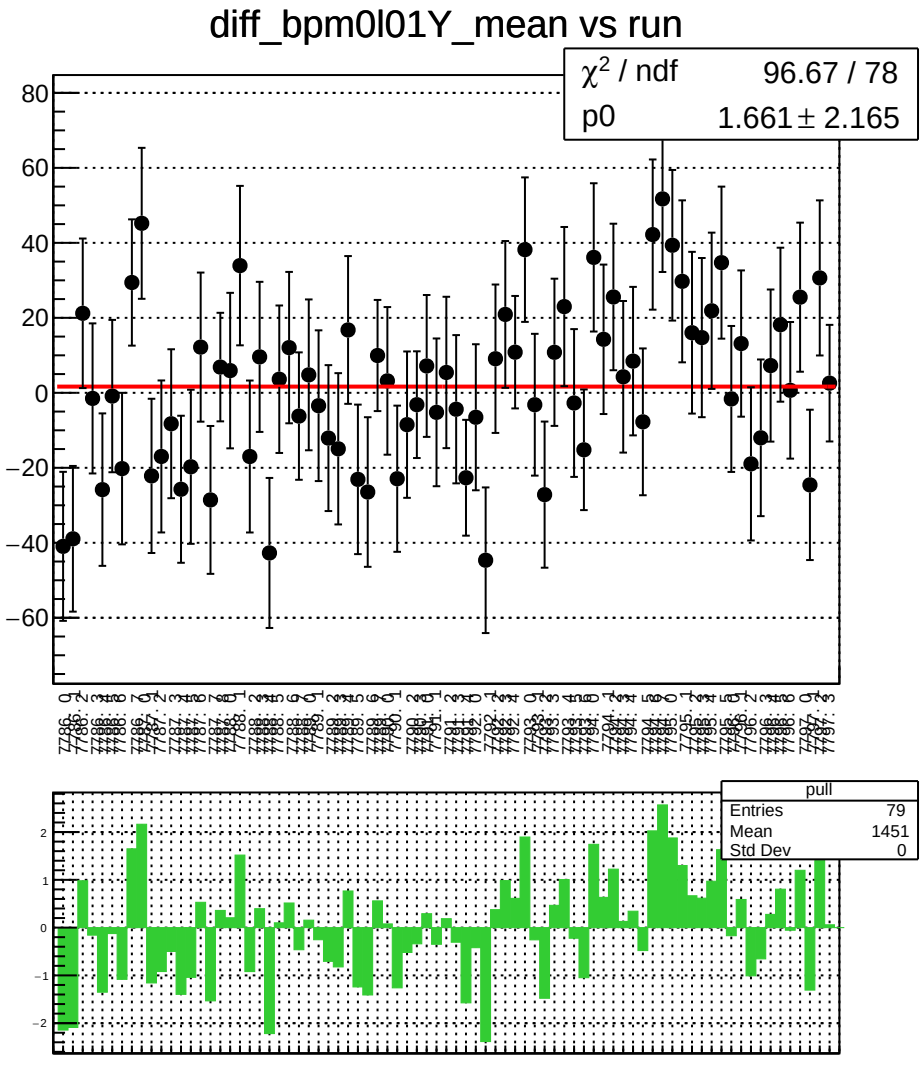

pull1D
Entries 79
Mean −0.01963
Std Dev 1.003

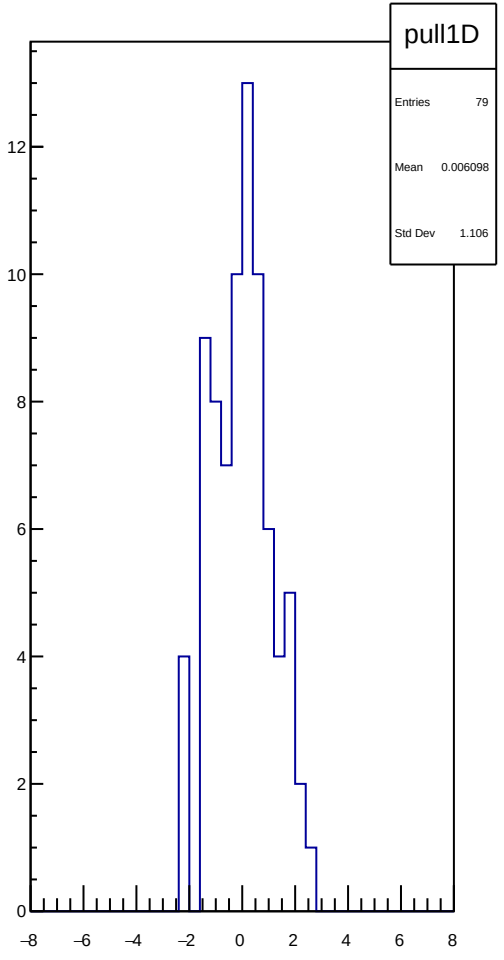

diff_bpm0i01aY_rms vs run
χ² / ndf 3850 / 78
p0 1310 ± 1.059
1400
1350
1300
1250
1200
1150
1100
1050
1000

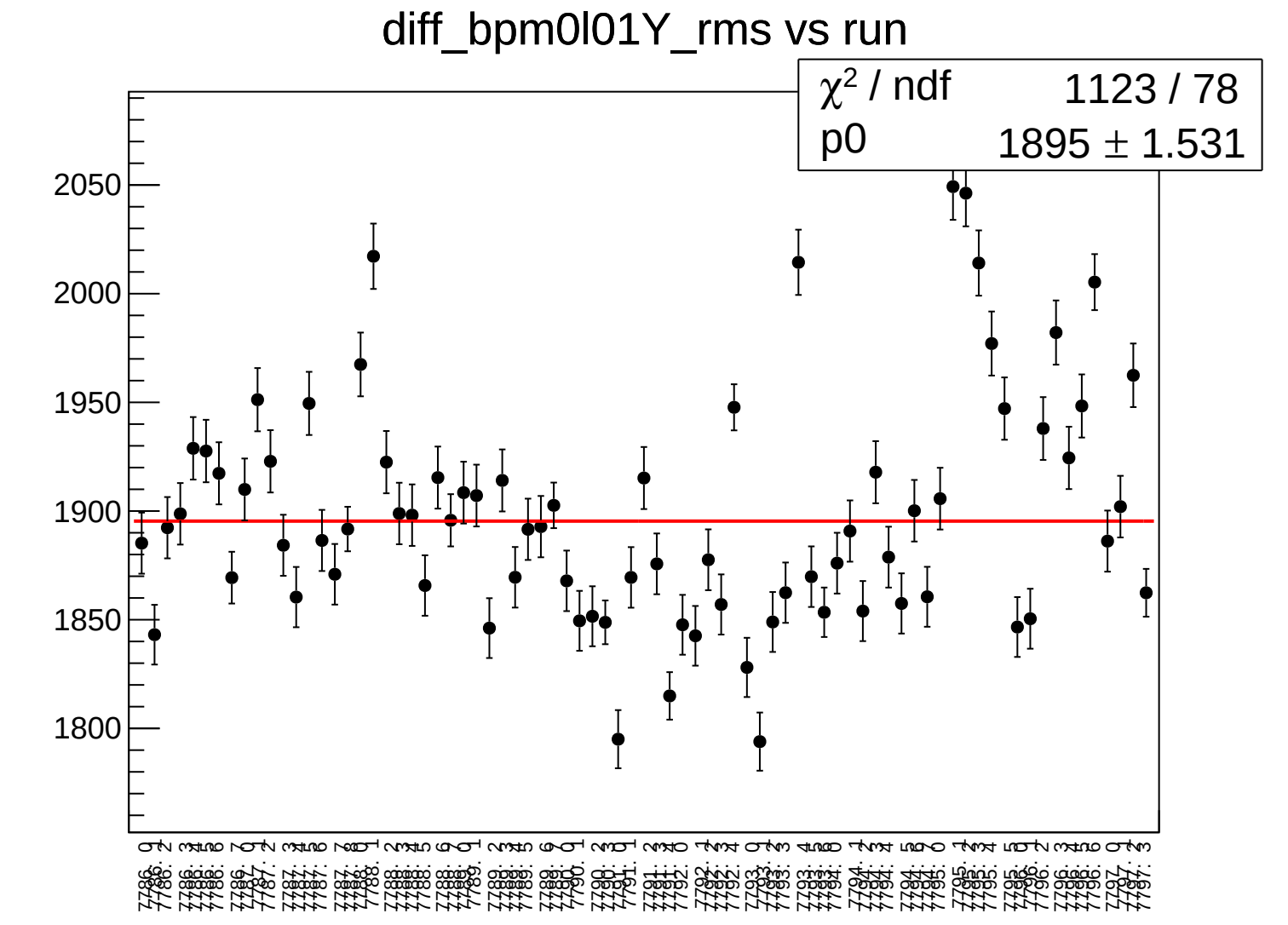

diff_bpm0l01X_mean vs run
χ^2 / ndf 67.66 / 78
p0 46.95 ± 3.649
150
100
50
0
−50
pull
Entries 79
Mean 156.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

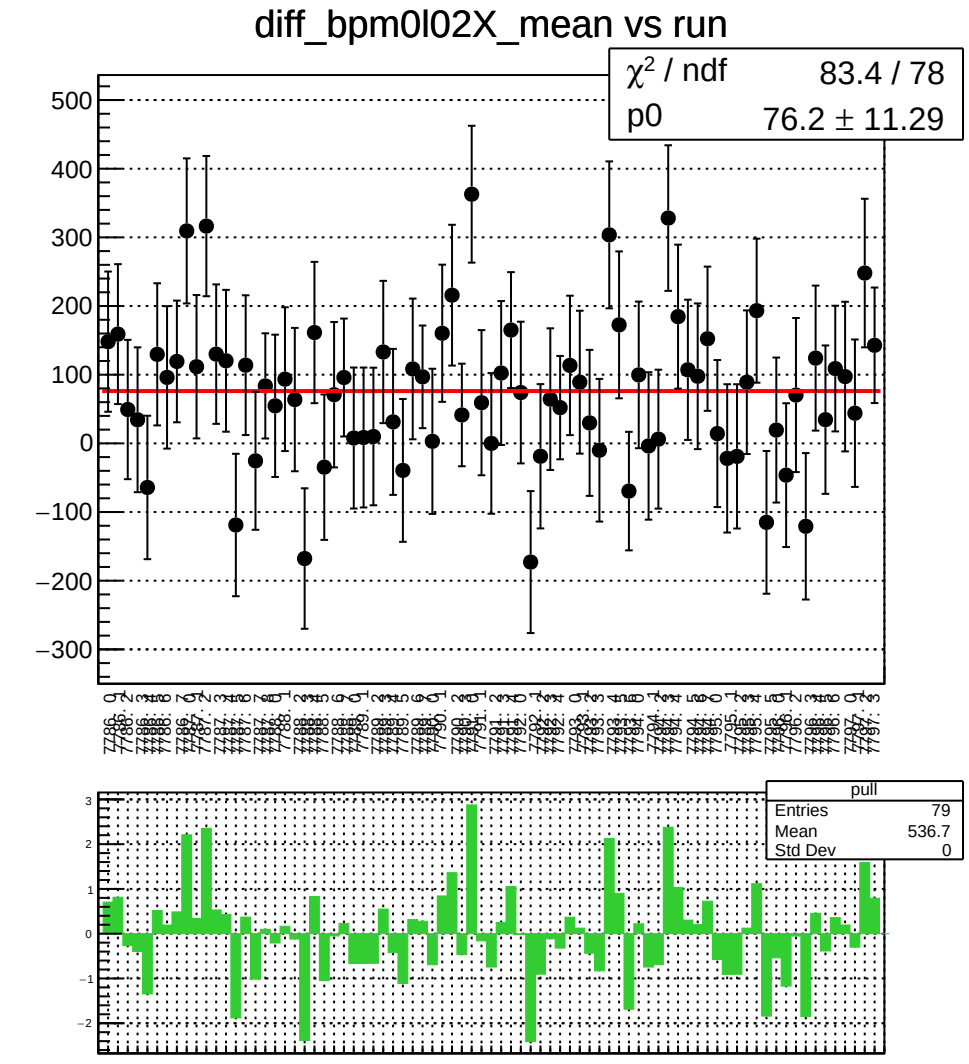

pull1D
Entries 79
Mean −0.007163
Std Dev 0.9254
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

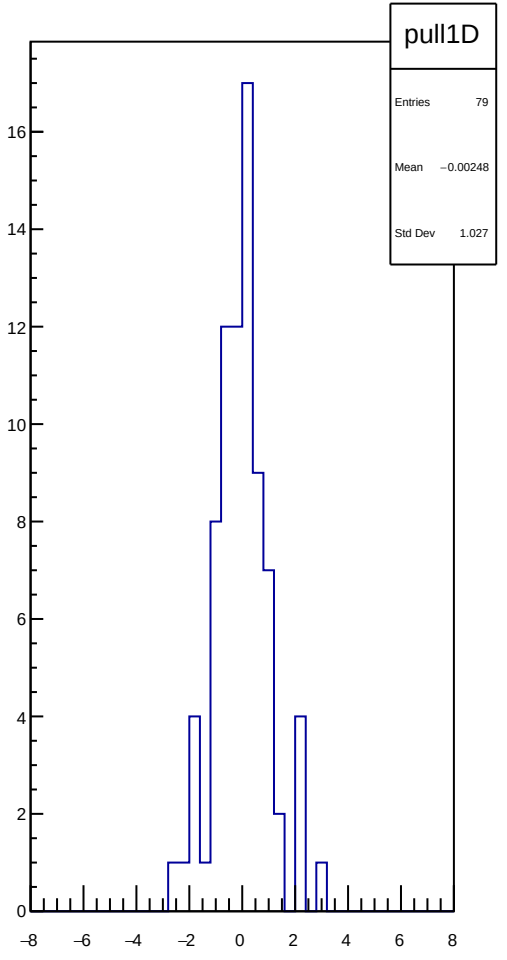

diff_bpm0l01X_rms vs run
χ² / ndf 397.1 / 78
p0 3195 ± 2.58
3350
3300
3250
3200
3150
3100
3050

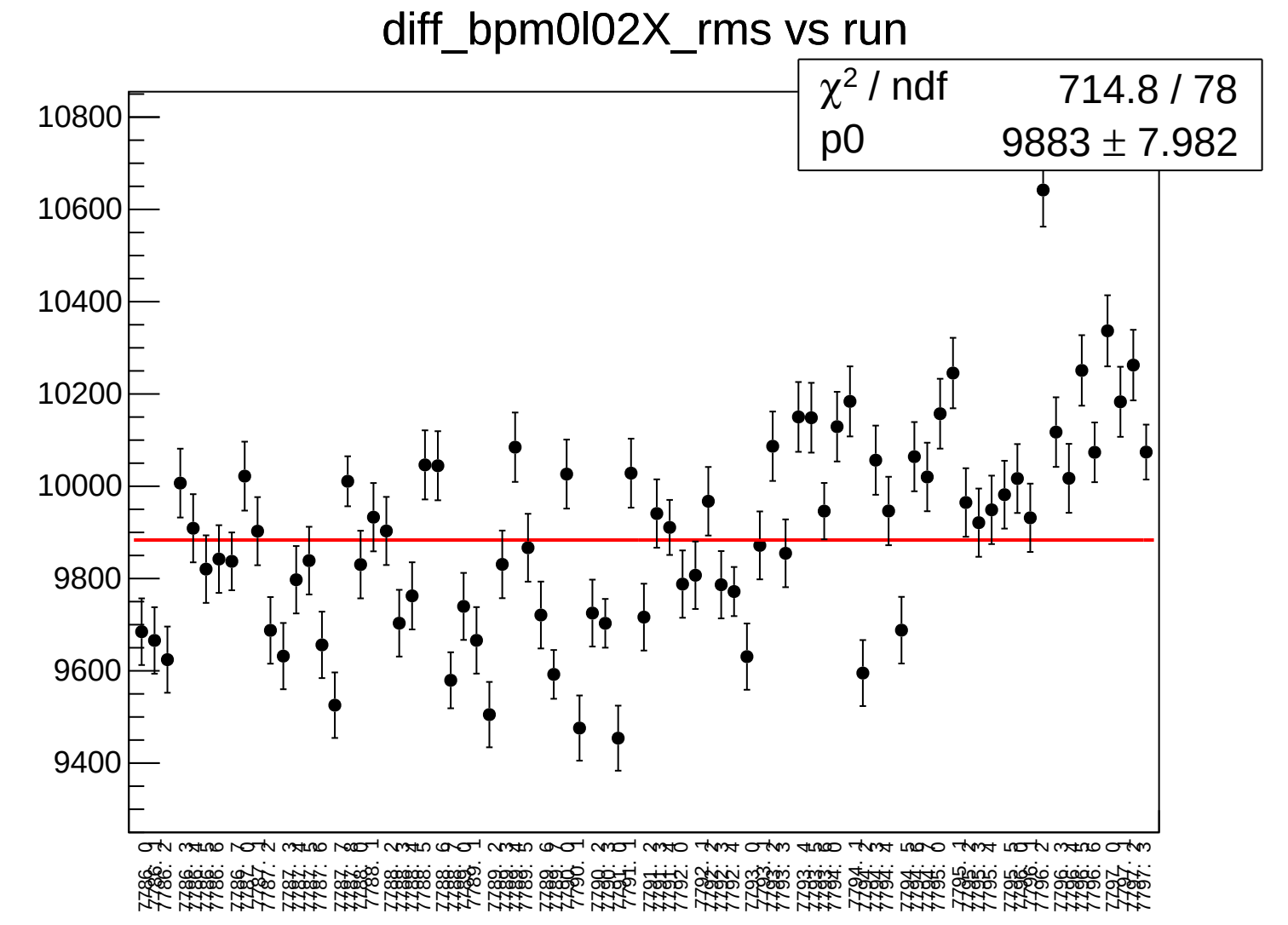

diff_bpm0l01Y_mean vs run
χ^2 / ndf 96.67 / 78
p0 1.661 ± 2.165
pull
Entries 79
Mean 1451
Std Dev 0

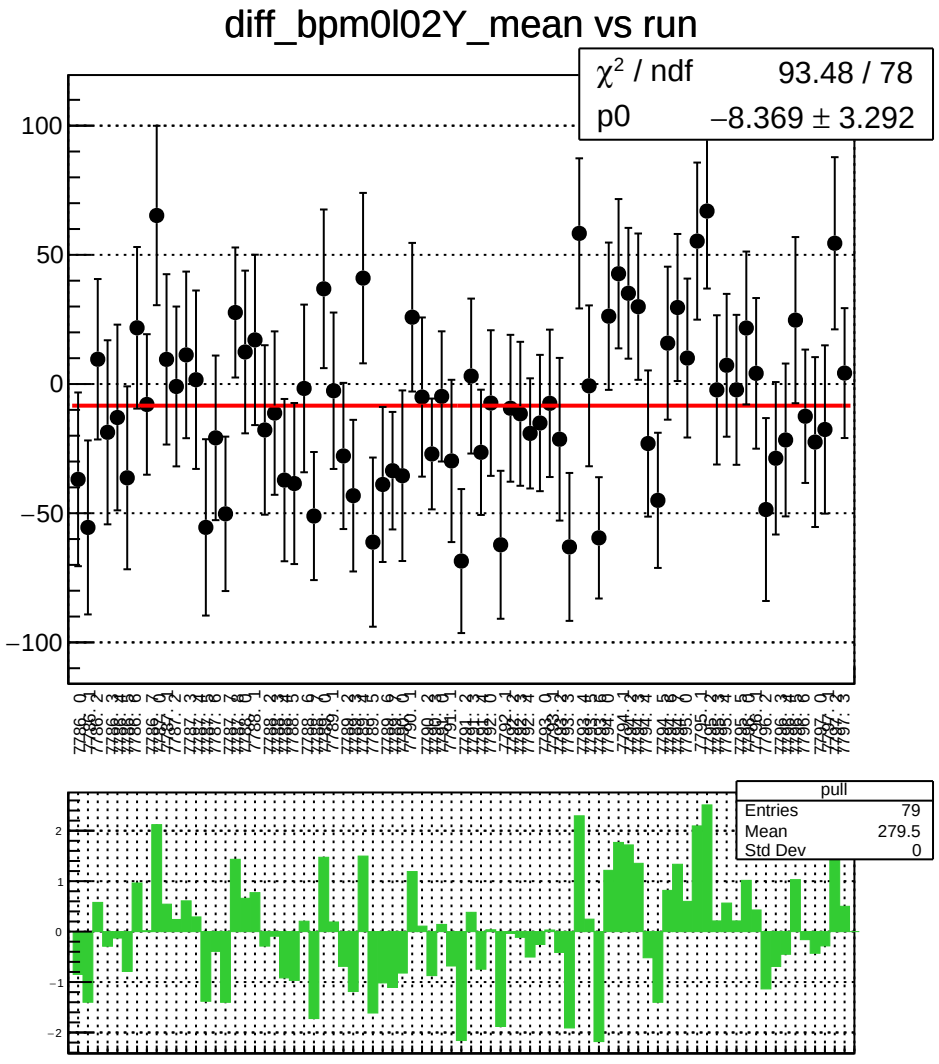

pull1D
Entries 79
Mean 0.006098
Std Dev 1.106

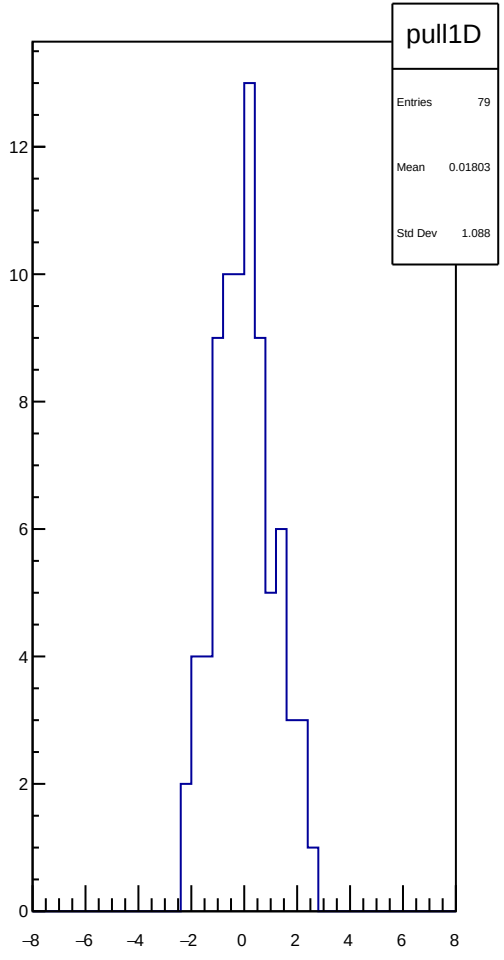

diff_bpm0l01Y_rms vs run
χ² / ndf 1123 / 78
p0 1895 ± 1.531
2050
2000
1950
1900
1850
1800

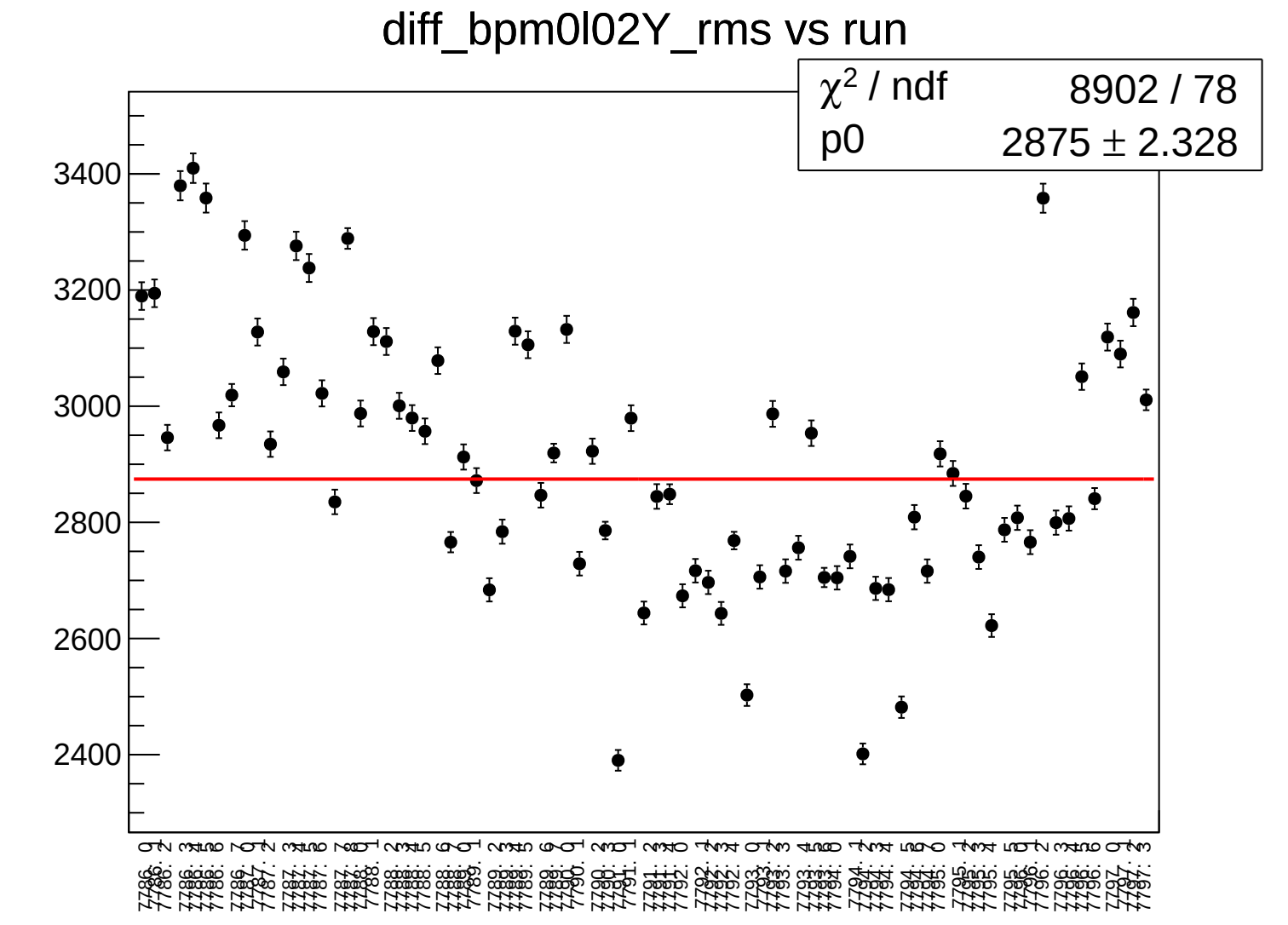

diff_bpm0l02X_mean vs run
χ² / ndf 83.4 / 78
p0 76.2 ± 11.29
pull
Entries 79
Mean 536.7
Std Dev 0

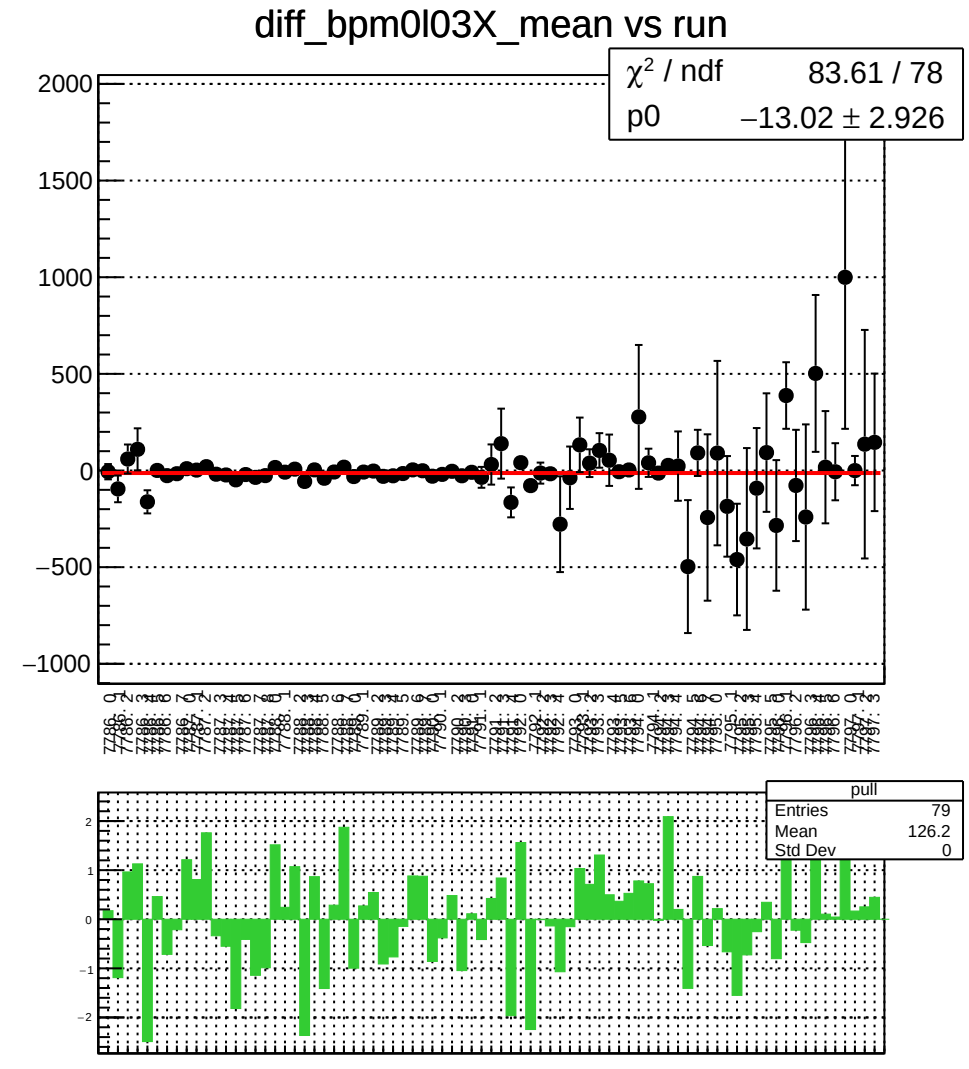

pull1D
Entries 79
Mean −0.00248
Std Dev 1.027

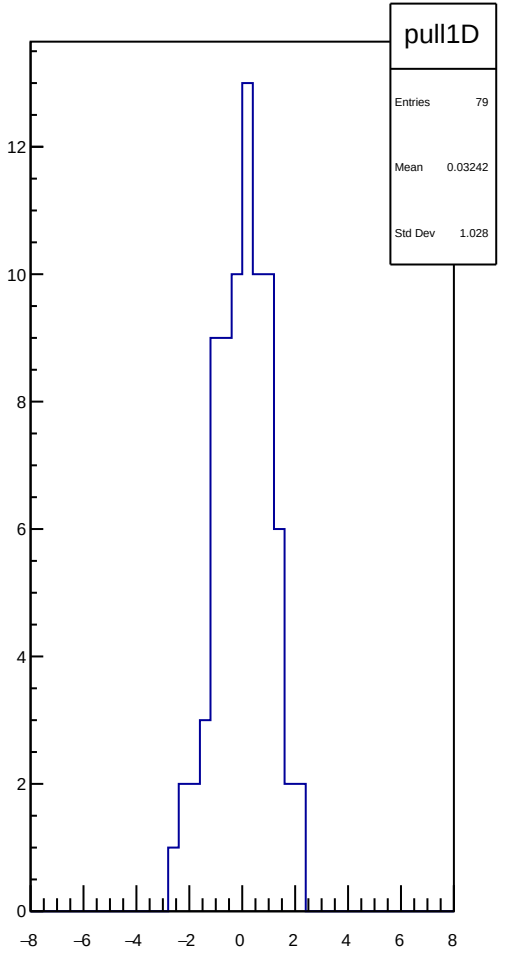

diff_bpm0l02X_rms vs run
χ² / ndf 714.8 / 78
p0 9883 ± 7.982
10800
10600
10400
10200
10000
9800
9600
9400

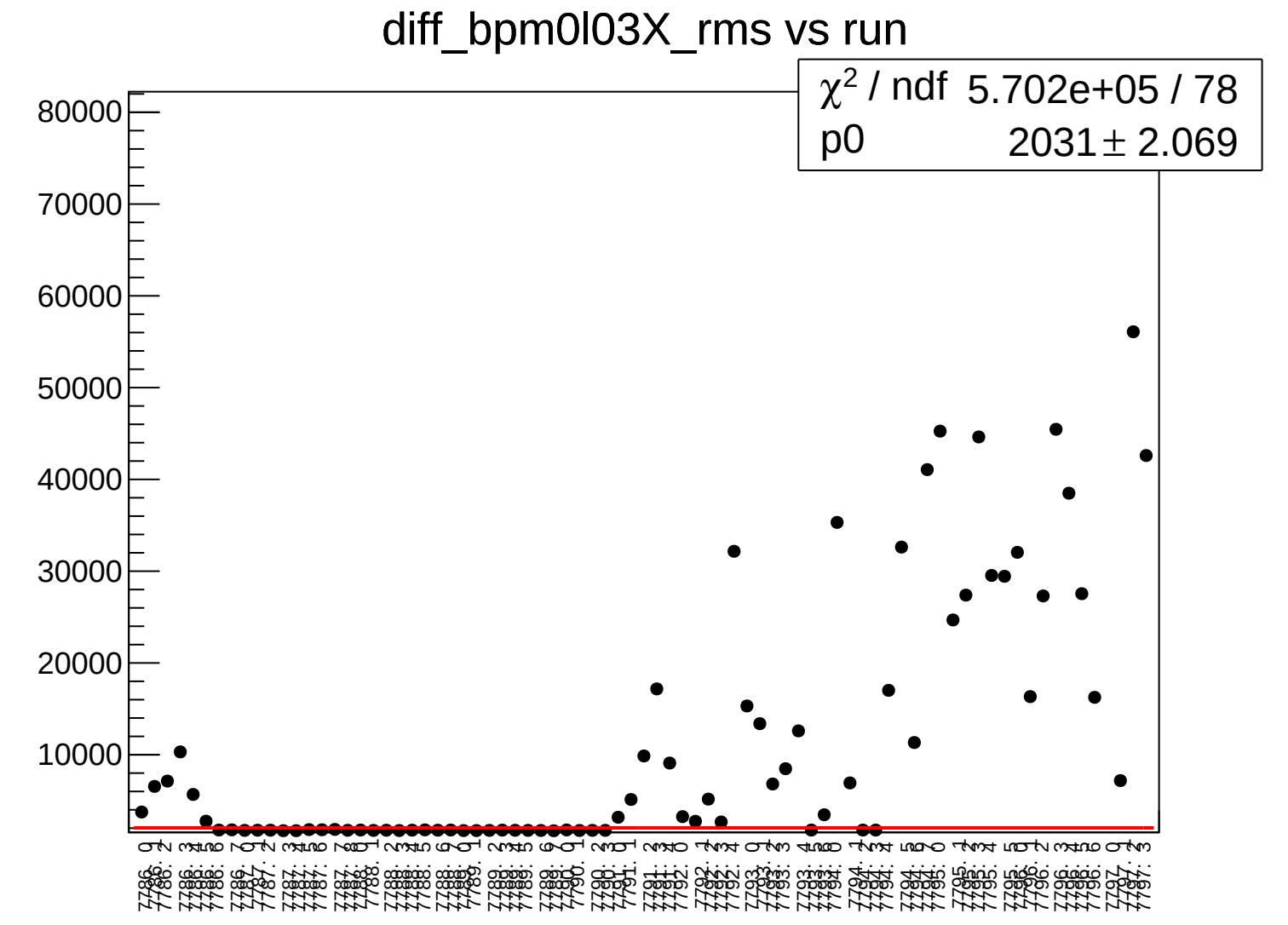

diff_bpm0l02Y_mean vs run
χ² / ndf 93.48 / 78
p0 −8.369 ± 3.292
100
50
0
−50
−100
pull
Entries 79
Mean 279.5
Std Dev 0
2
1
0
−1
−2

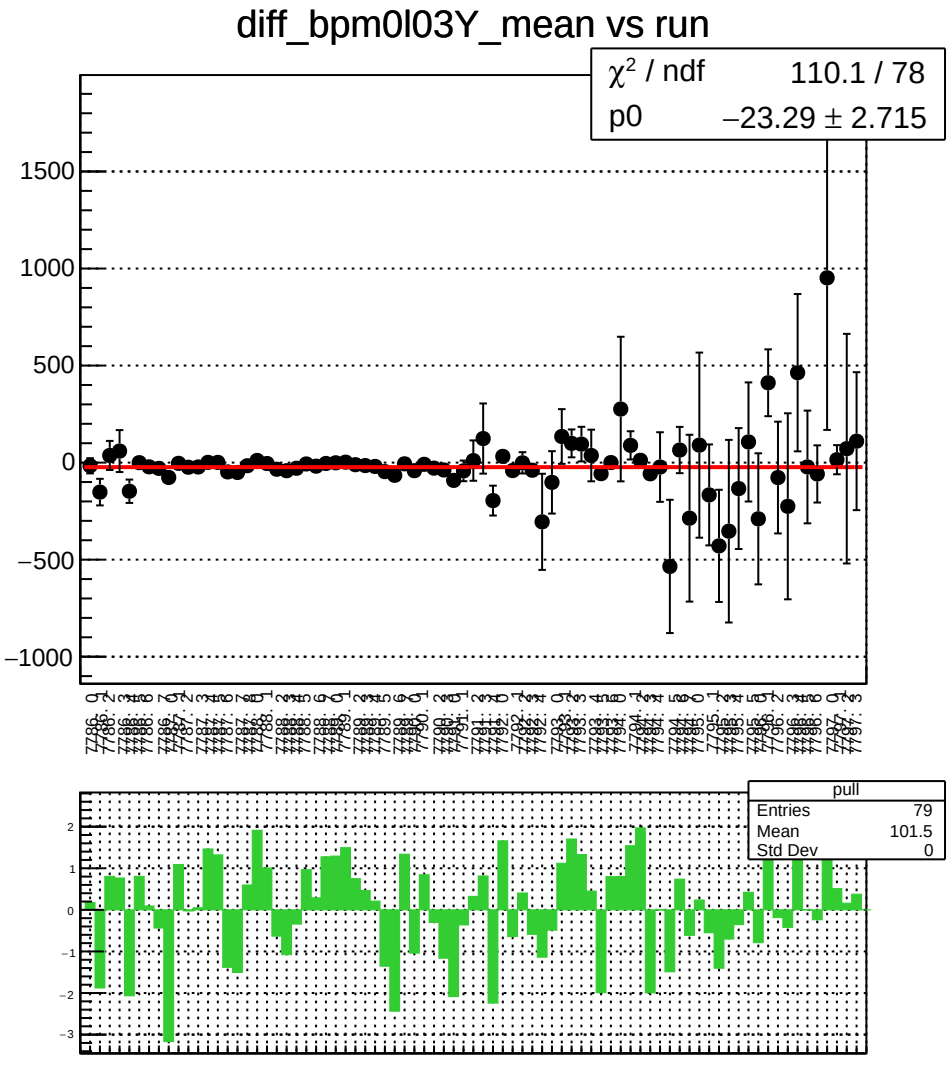

pull1D
Entries 79
Mean 0.01803
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

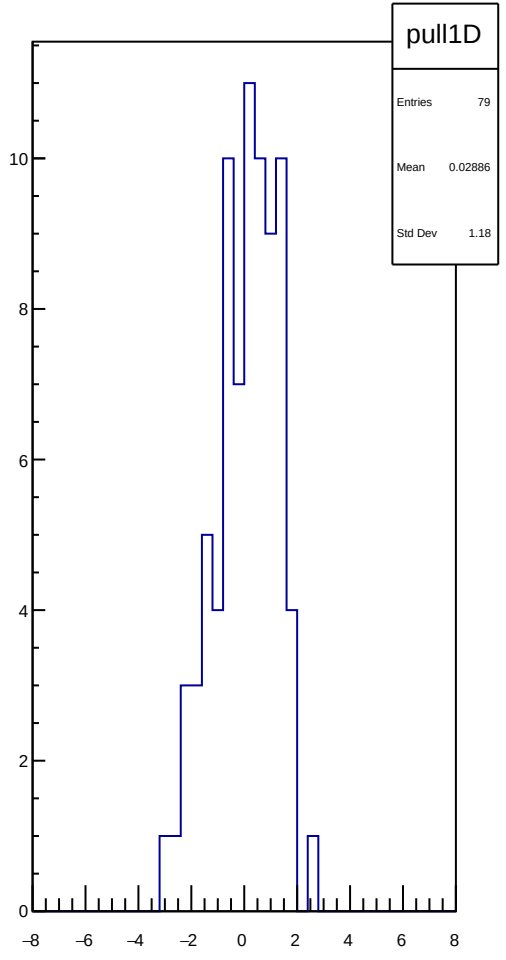

diff_bpm0l02Y_rms vs run
χ² / ndf 8902 / 78
p0 2875 ± 2.328
3400
3200
3000
2800
2600
2400

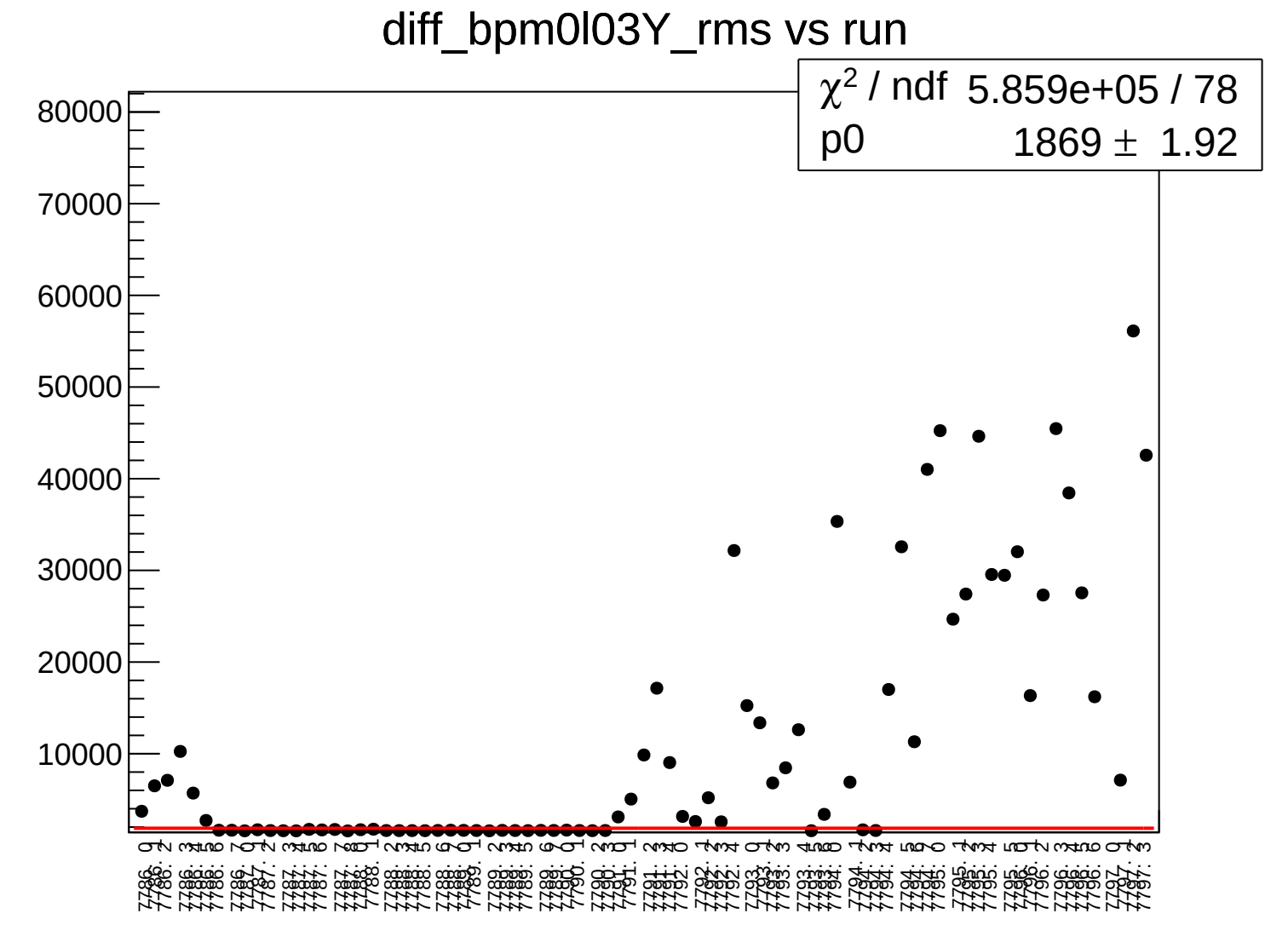

diff_bpm0l03X_mean vs run
χ² / ndf 83.61 / 78
p0 −13.02 ± 2.926
pull
Entries 79
Mean 126.2
Std Dev 0

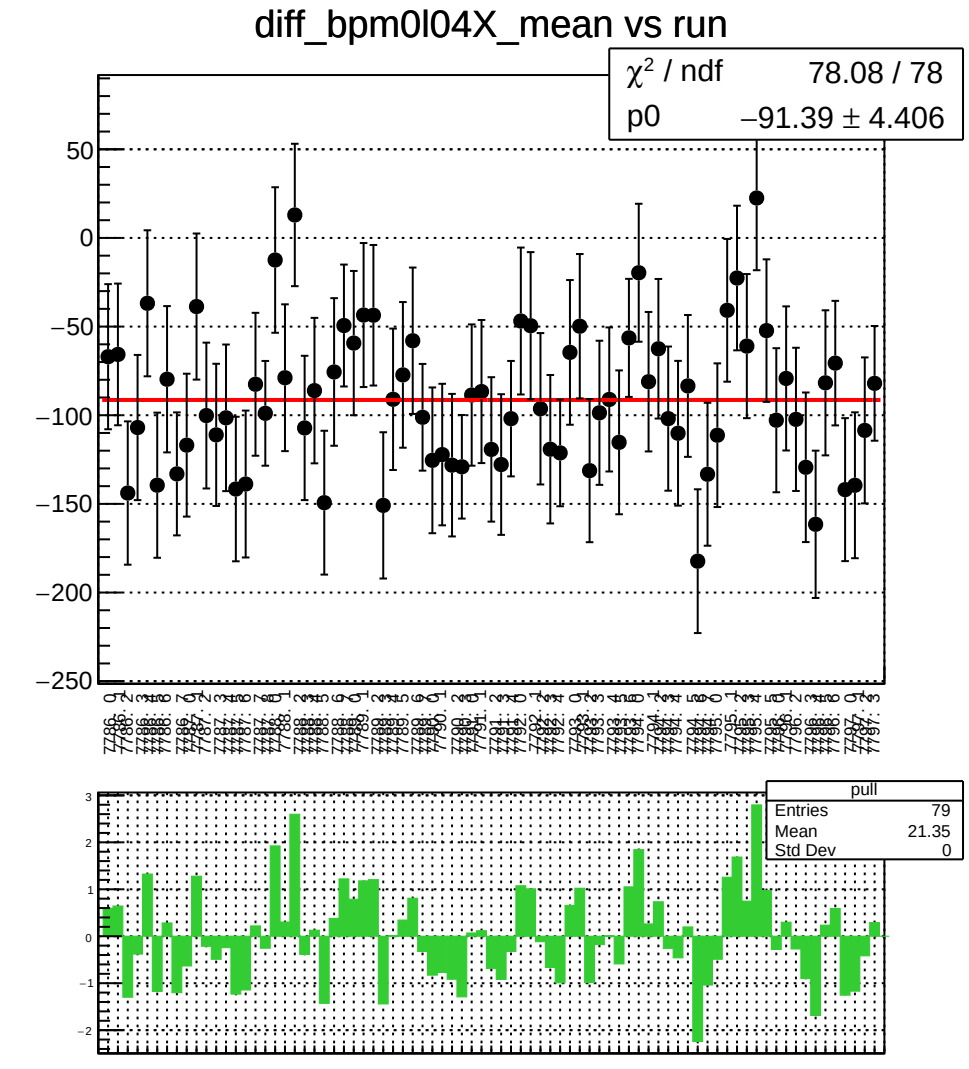

pull1D
Entries 79
Mean 0.03242
Std Dev 1.028

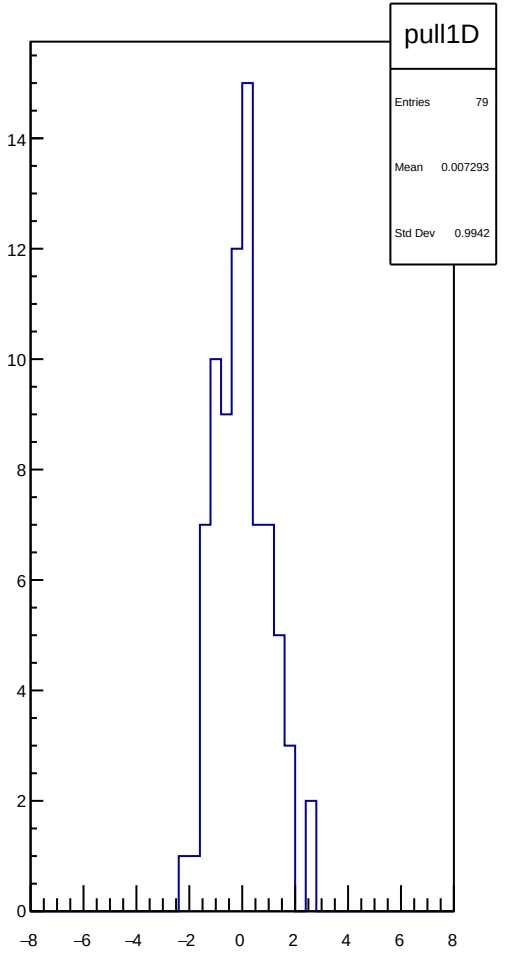

diff_bpm0l03X_rms vs run
χ² / ndf 5.702e+05 / 78
p0 2031 ± 2.069
80000
70000
60000
50000
40000
30000
20000
10000

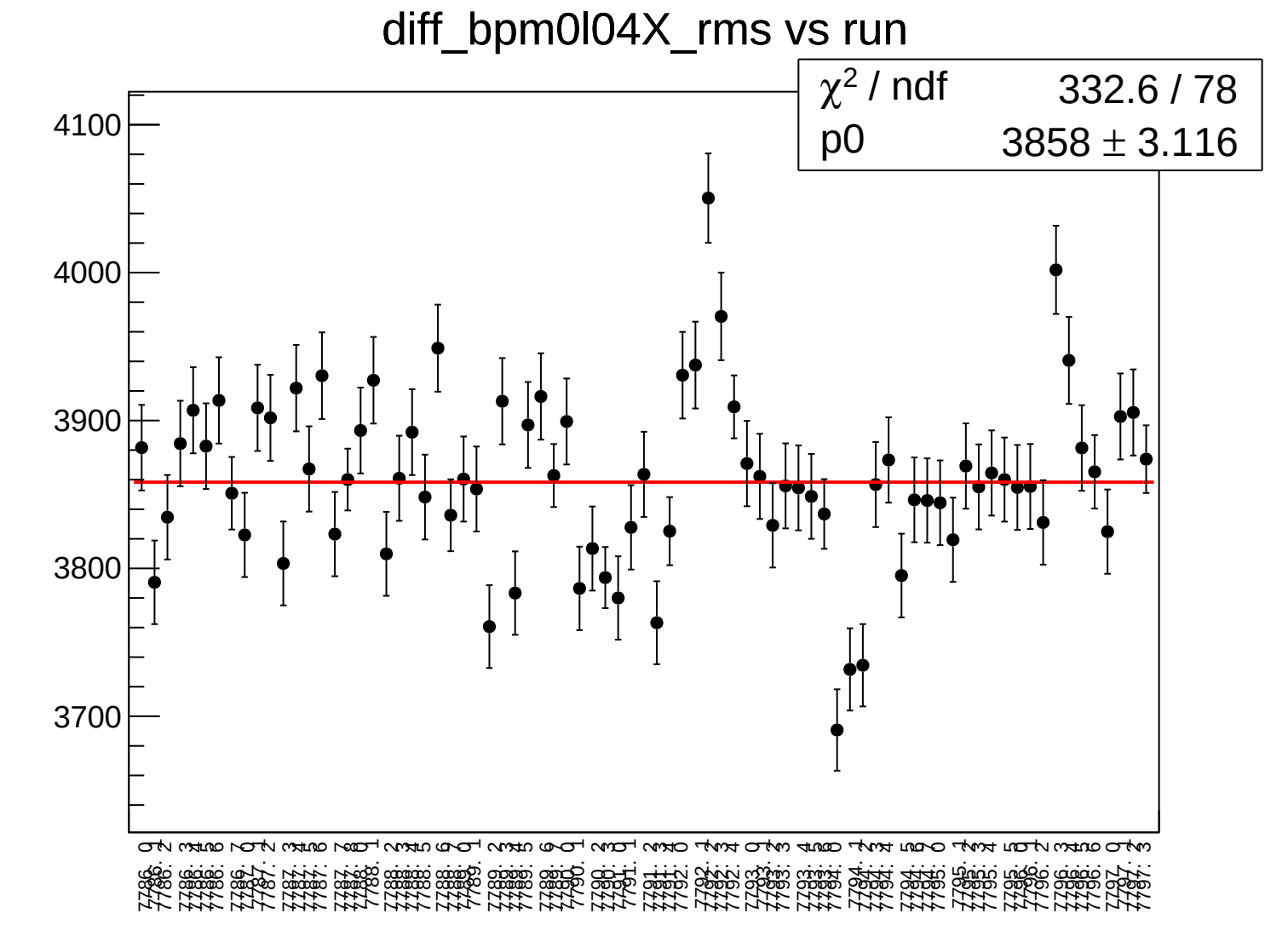

diff_bpm0l03Y_mean vs run
χ² / ndf 110.1 / 78
p0 −23.29 ± 2.715
pull
Entries 79
Mean 101.5
Std Dev 0

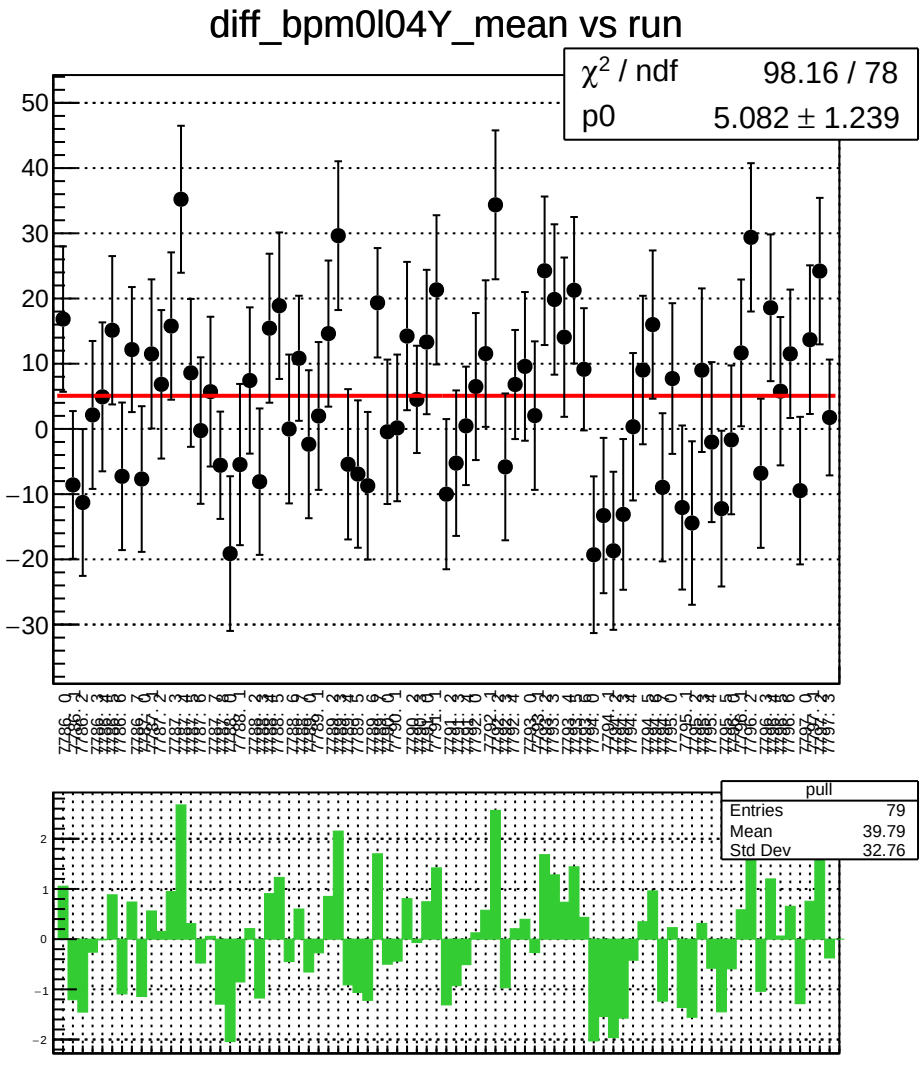

pull1D
Entries 79
Mean 0.02886
Std Dev 1.18

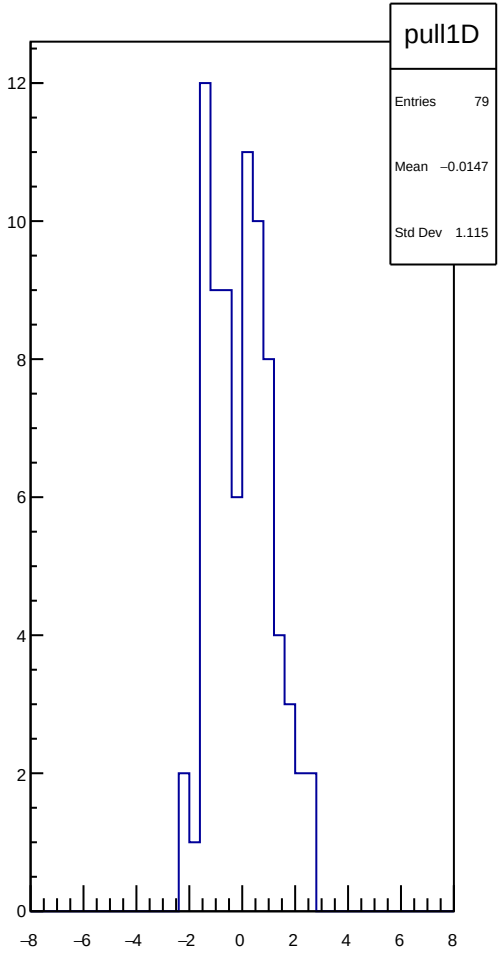

diff_bpm0l03Y_rms vs run
χ² / ndf 5.859e+05 / 78
p0 1869 ± 1.92
80000
70000
60000
50000
40000
30000
20000
10000

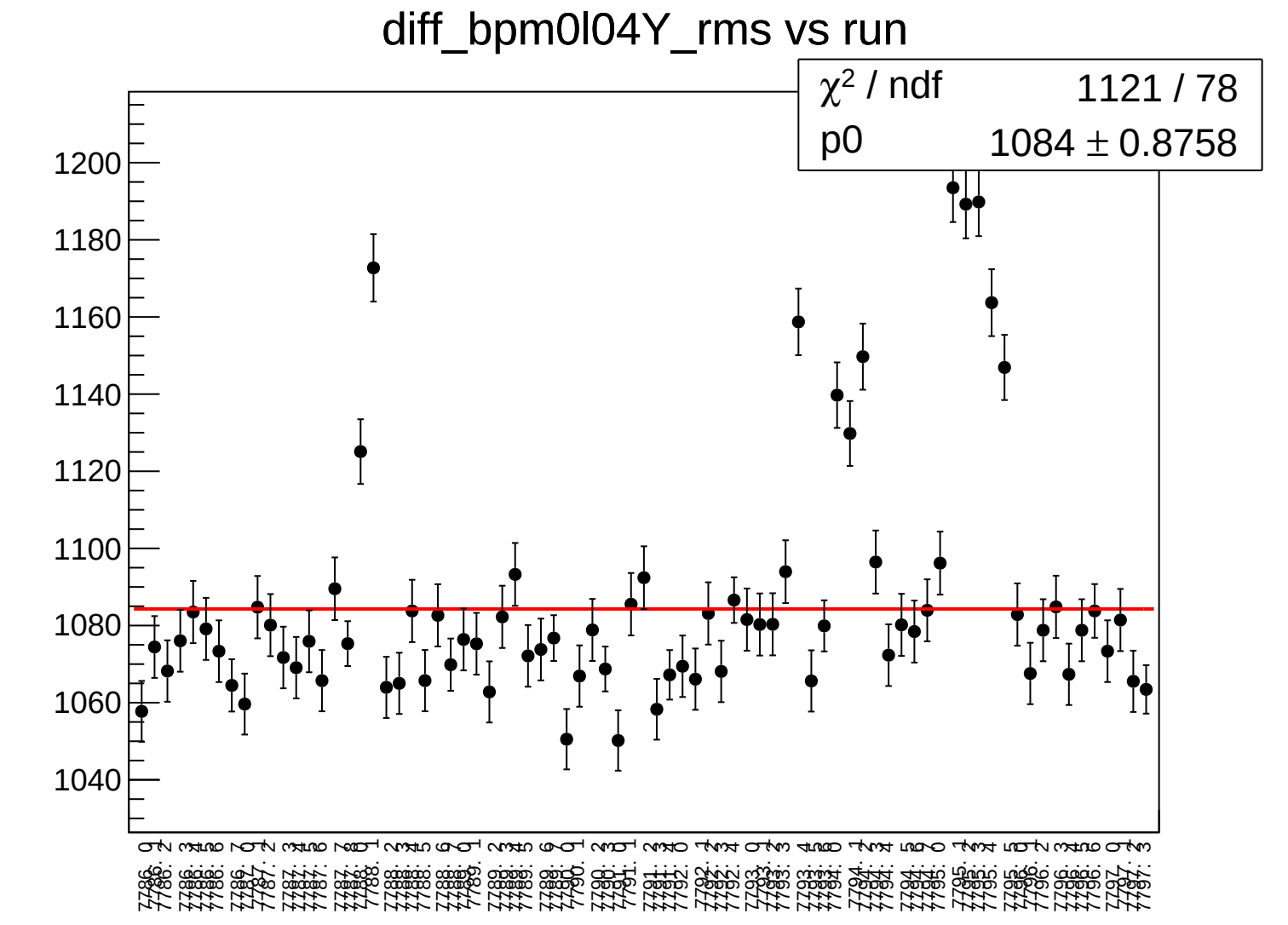

diff_bpm0l04X_mean vs run
χ² / ndf 78.08 / 78
p0 −91.39 ± 4.406
pull
Entries 79
Mean 21.35
Std Dev 0

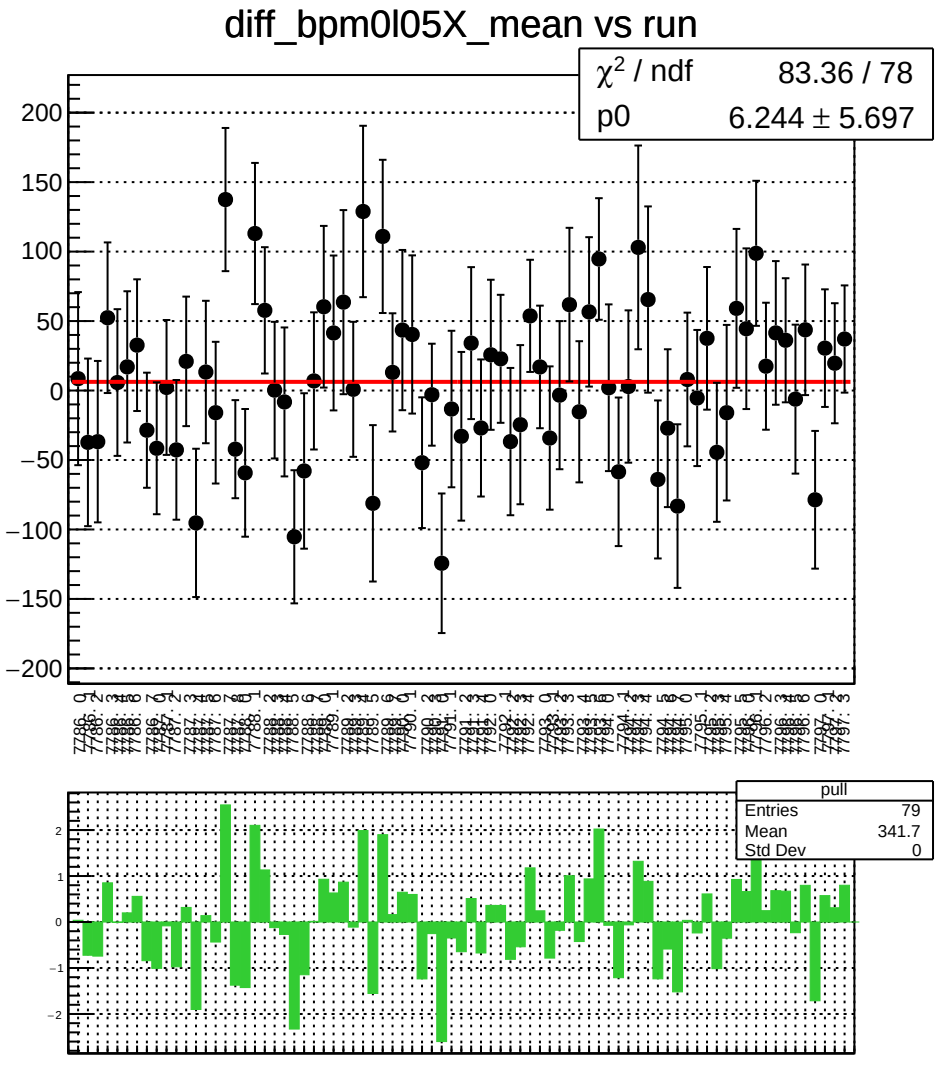

pull1D
Entries 79
Mean 0.007293
Std Dev 0.9942

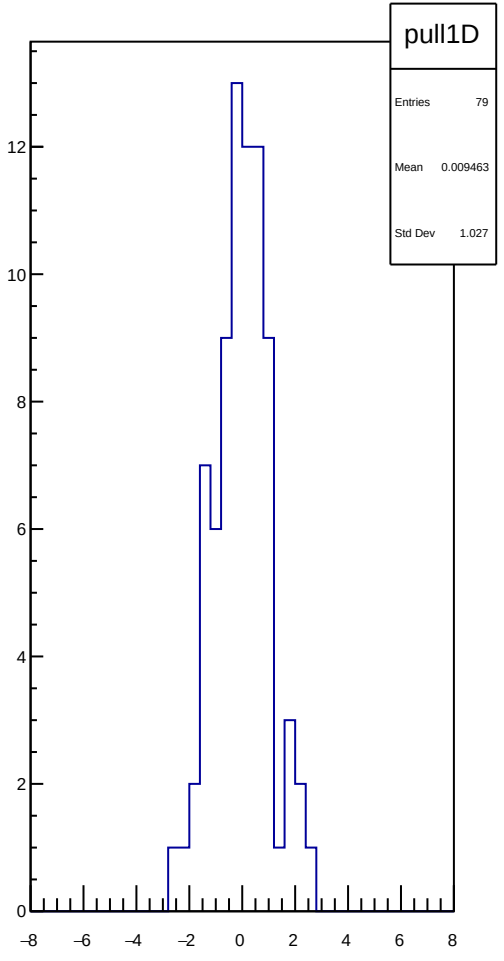

diff_bpm0l04X_rms vs run
χ² / ndf 332.6 / 78
p0 3858 ± 3.116
4100
4000
3900
3800
3700

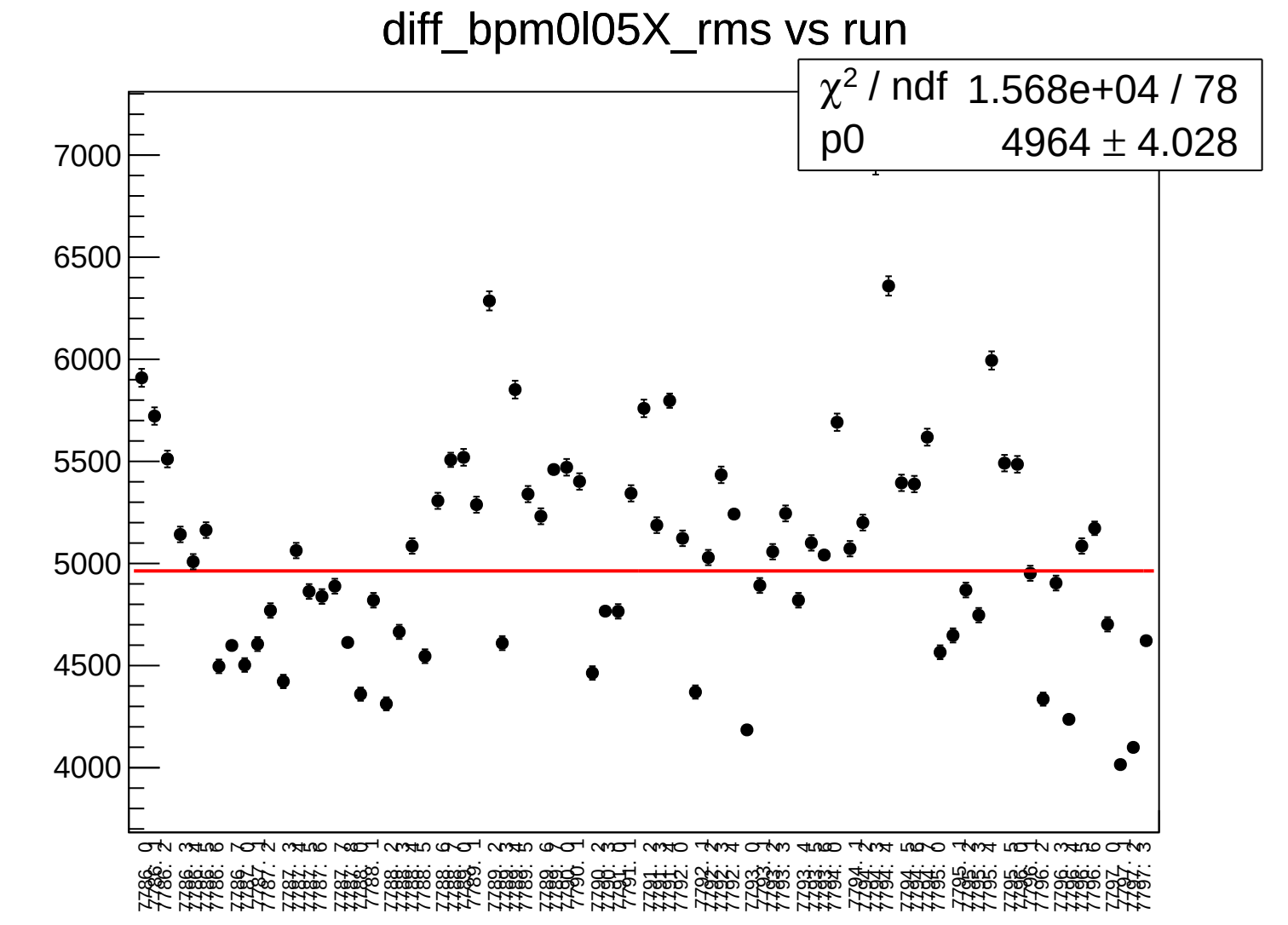

diff_bpm0l04Y_mean vs run
χ² / ndf 98.16 / 78
p0 5.082 ± 1.239
pull
Entries 79
Mean 39.79
Std Dev 32.76

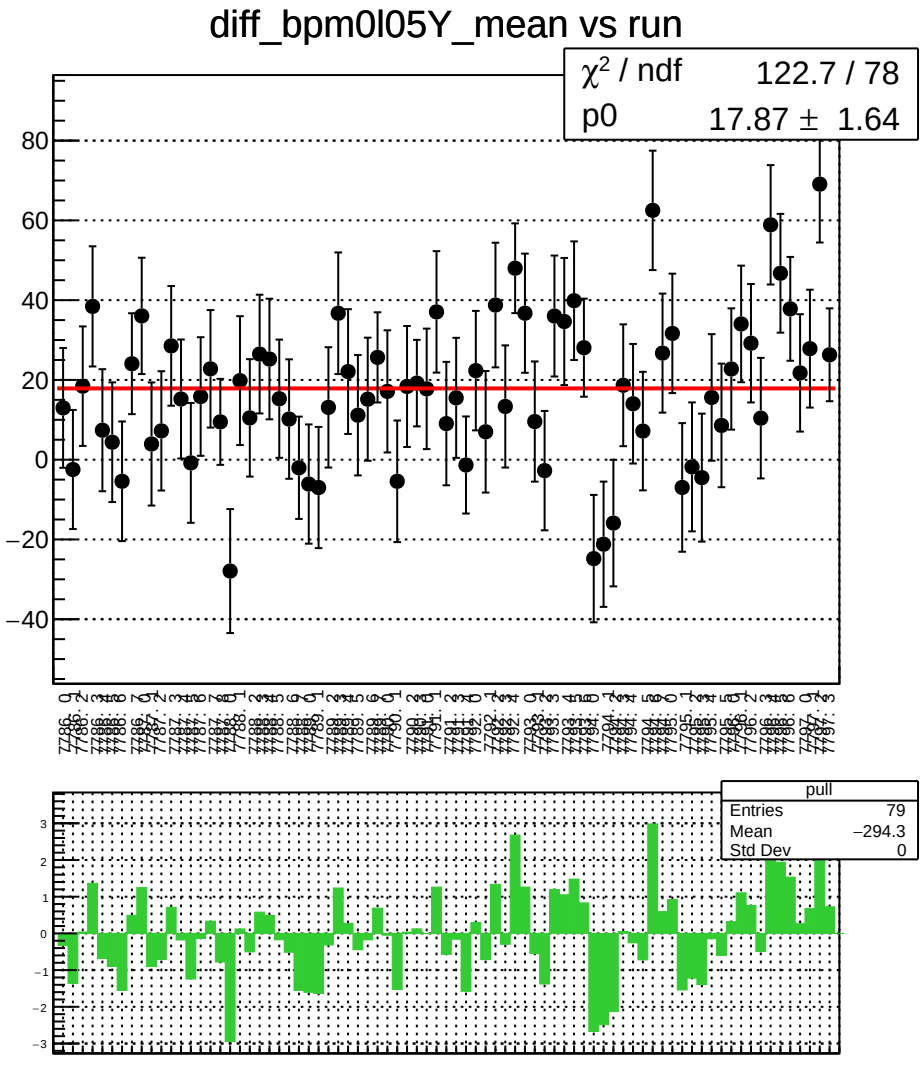

pull1D
Entries 79
Mean −0.0147
Std Dev 1.115

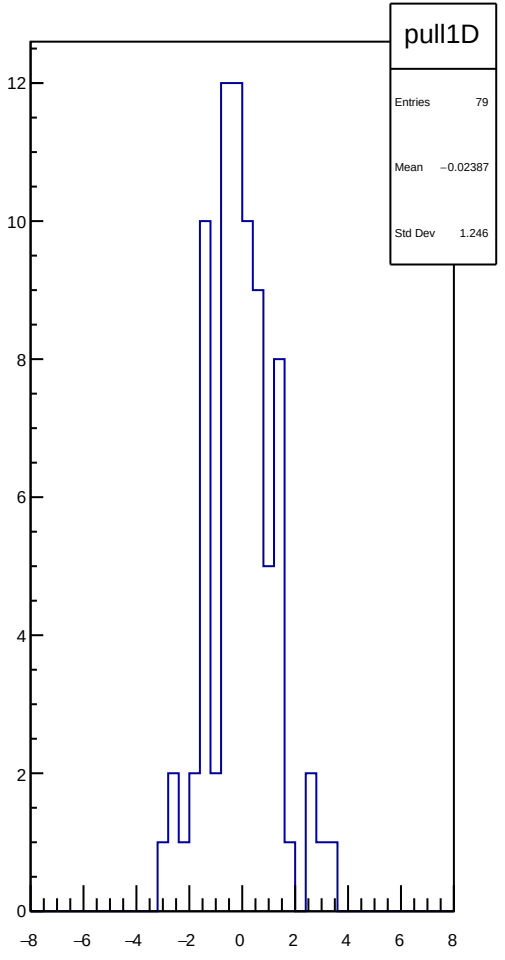

diff_bpm0l04Y_rms vs run
χ² / ndf 1121 / 78
p0 1084 ± 0.8758
1200
1180
1160
1140
1120
1100
1080
1060
1040

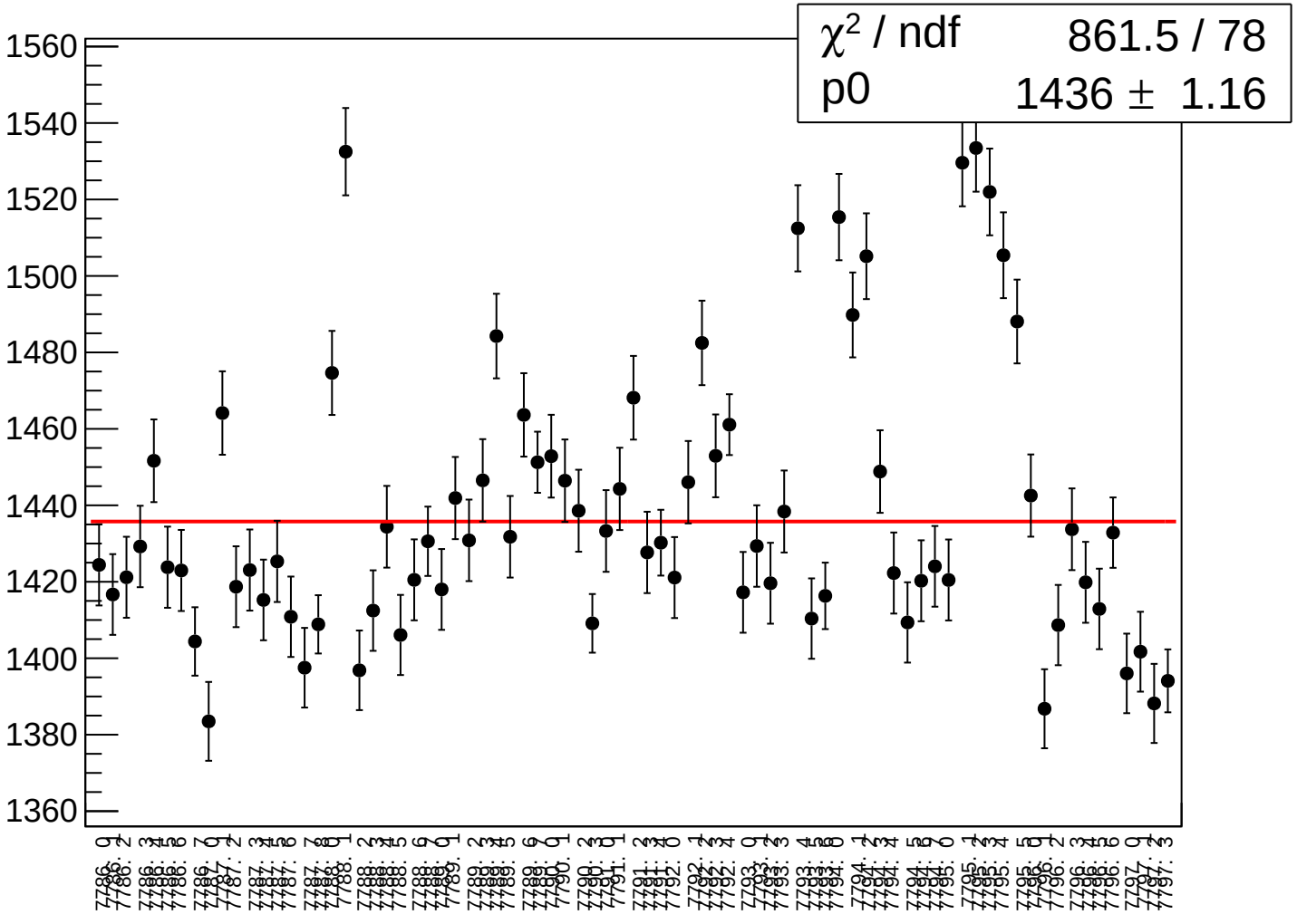

diff_bpm0l05X_mean vs run
χ^2 / ndf 83.36 / 78
p0 6.244 ± 5.697
pull
Entries 79
Mean 341.7
Std Dev 0

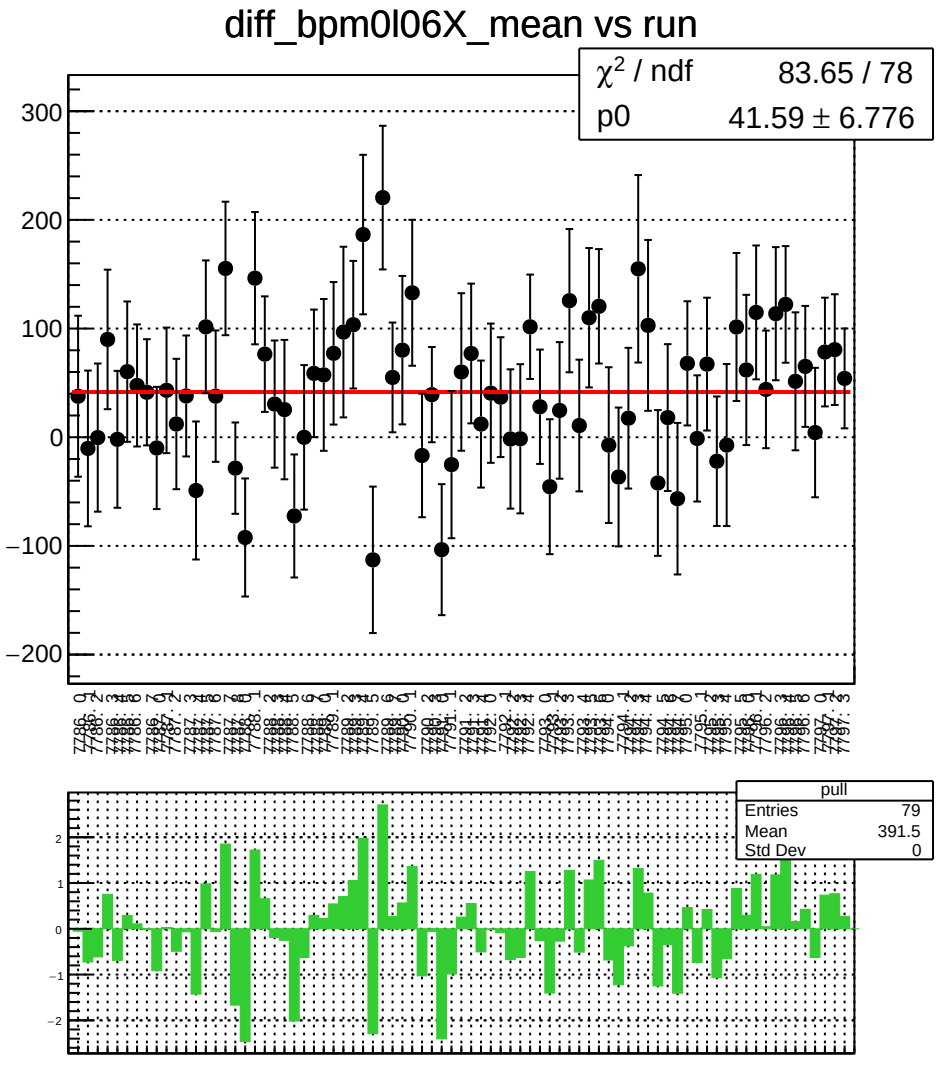

pull1D
Entries 79
Mean 0.009463
Std Dev 1.027

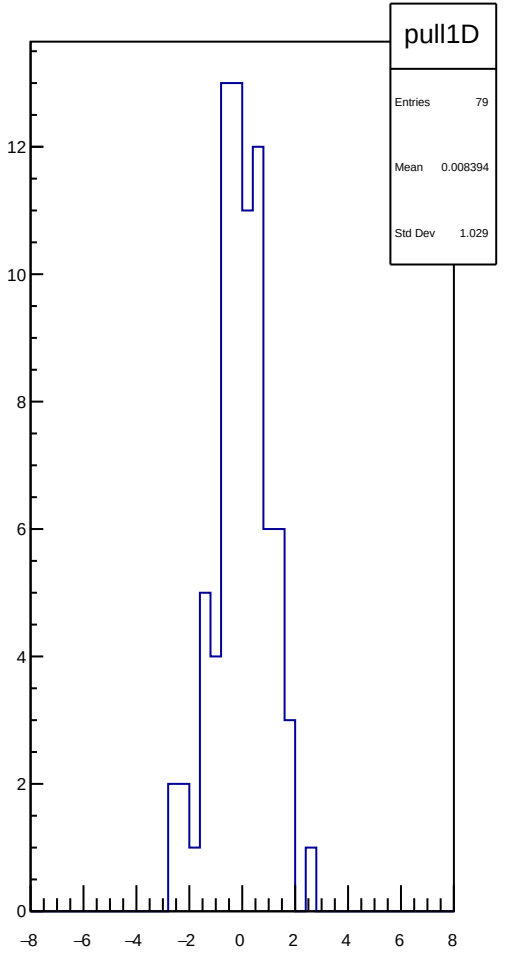

diff_bpm0l05X_rms vs run
χ^2 / ndf 1.568e+04 / 78
p0 4964 ± 4.028
7000
6500
6000
5500
5000
4500
4000

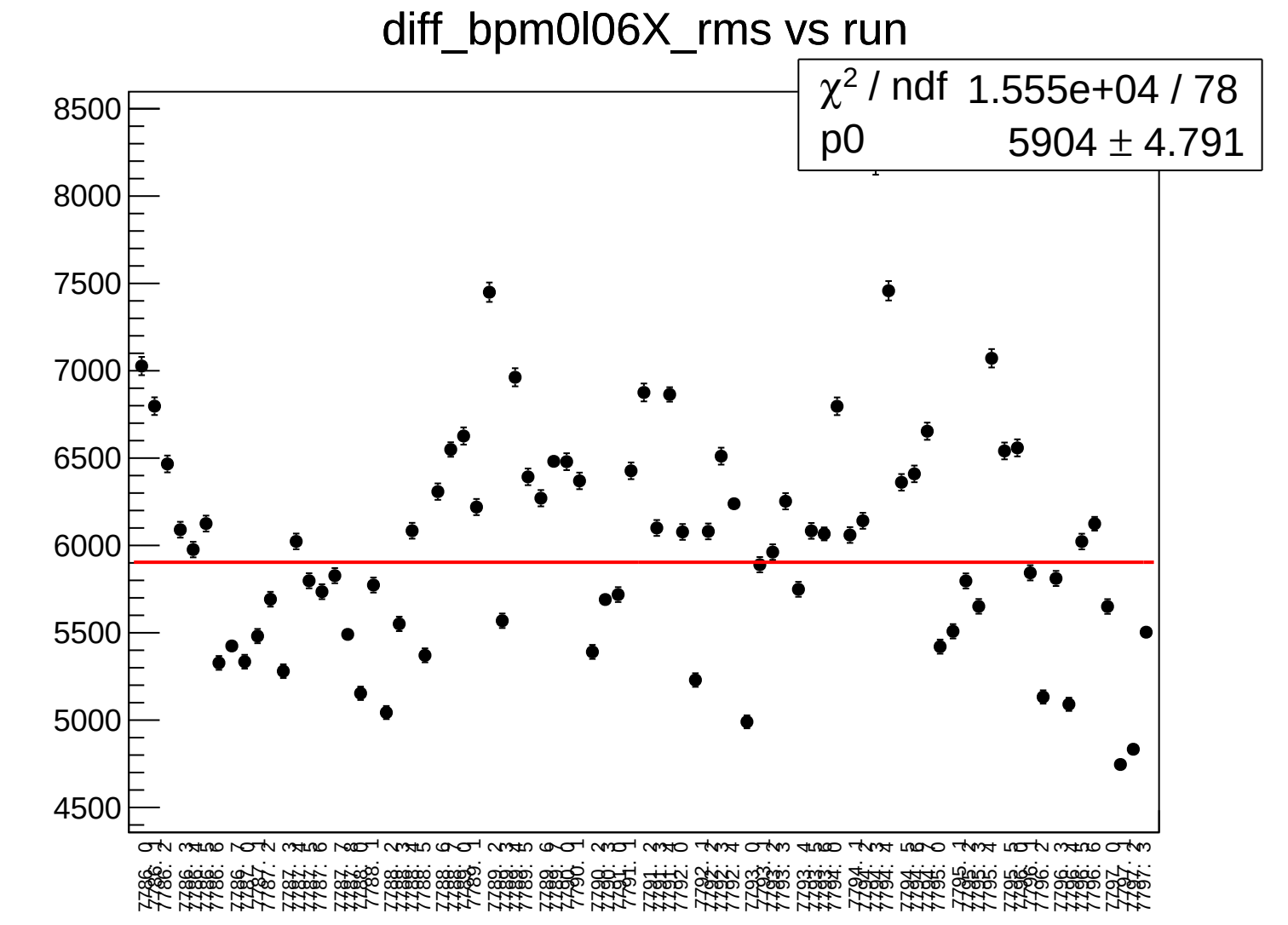

diff_bpm0l05Y_mean vs run
χ^2 / ndf 122.7 / 78
p0 17.87 ± 1.64
pull
Entries 79
Mean −294.3
Std Dev 0

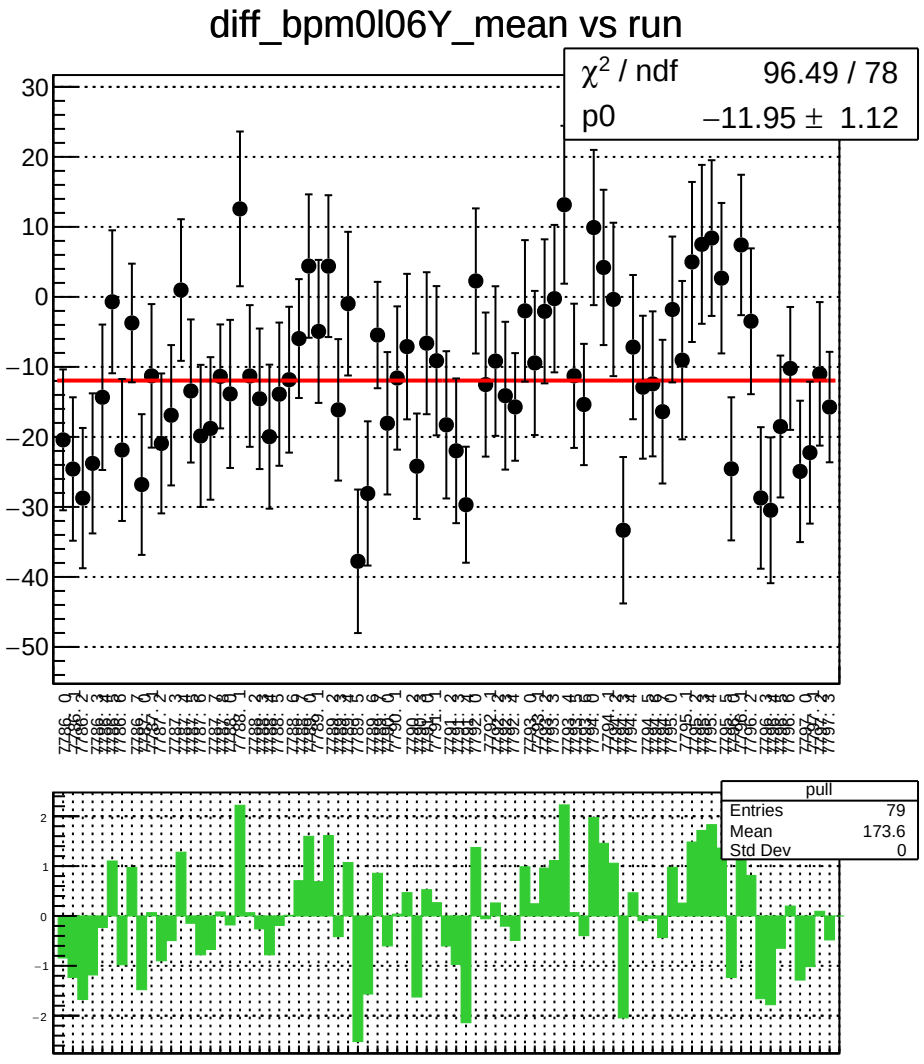

pull1D
Entries 79
Mean −0.02387
Std Dev 1.246

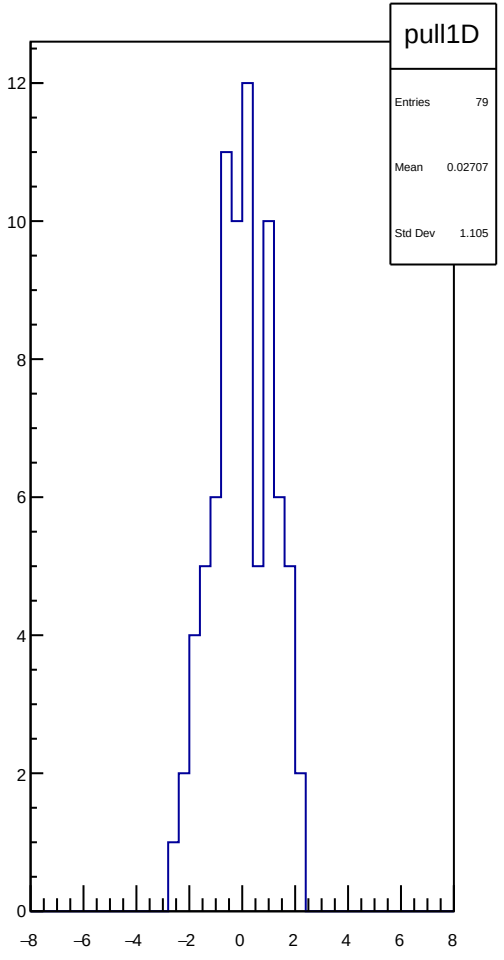

diff_bpm0l05Y_rms vs run
χ² / ndf 861.5 / 78
p0 1436 ± 1.16
1560
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360

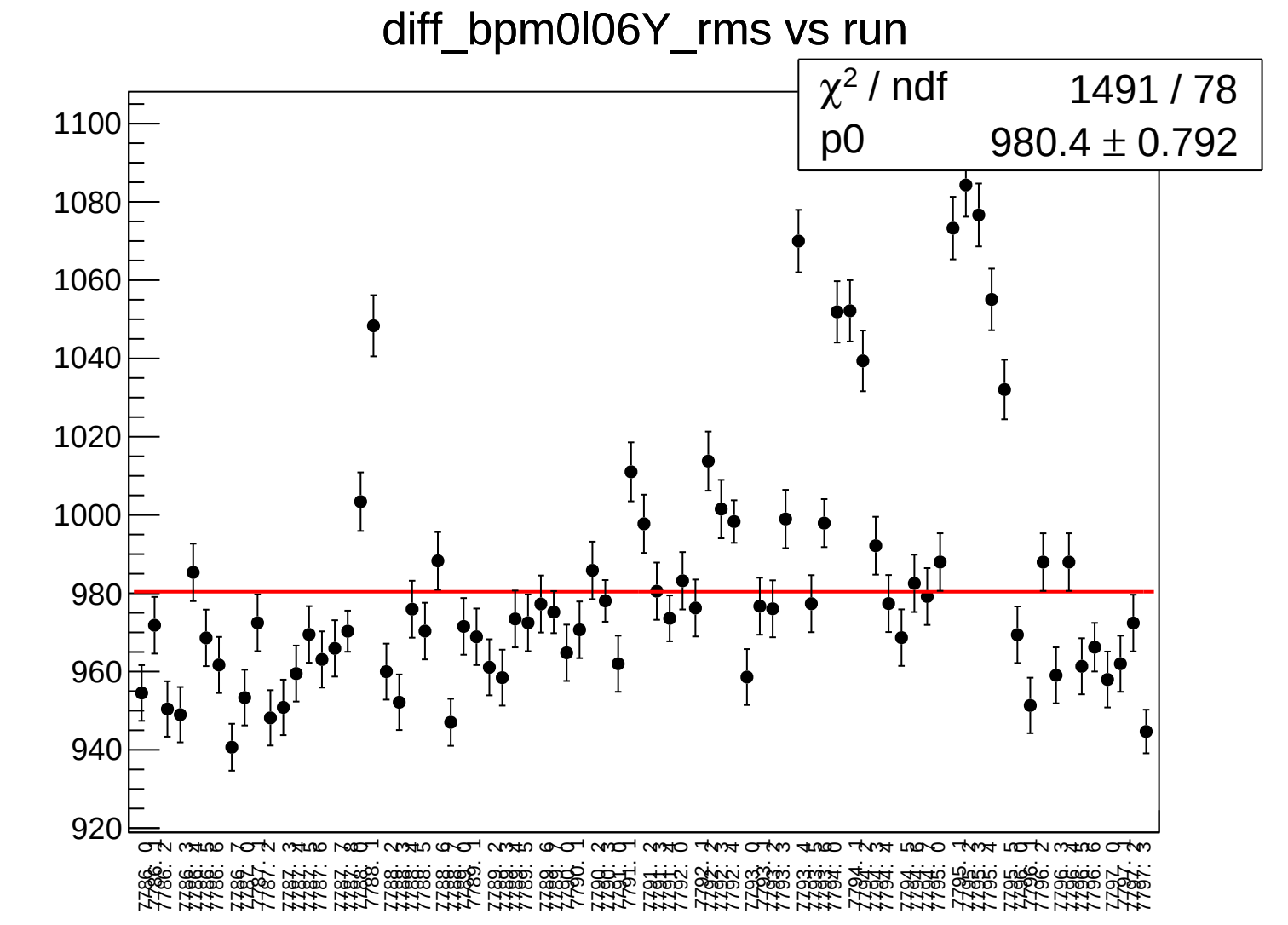

diff_bpm0l06X_mean vs run
χ² / ndf 83.65 / 78
p0 41.59 ± 6.776
pull
Entries 79
Mean 391.5
Std Dev 0

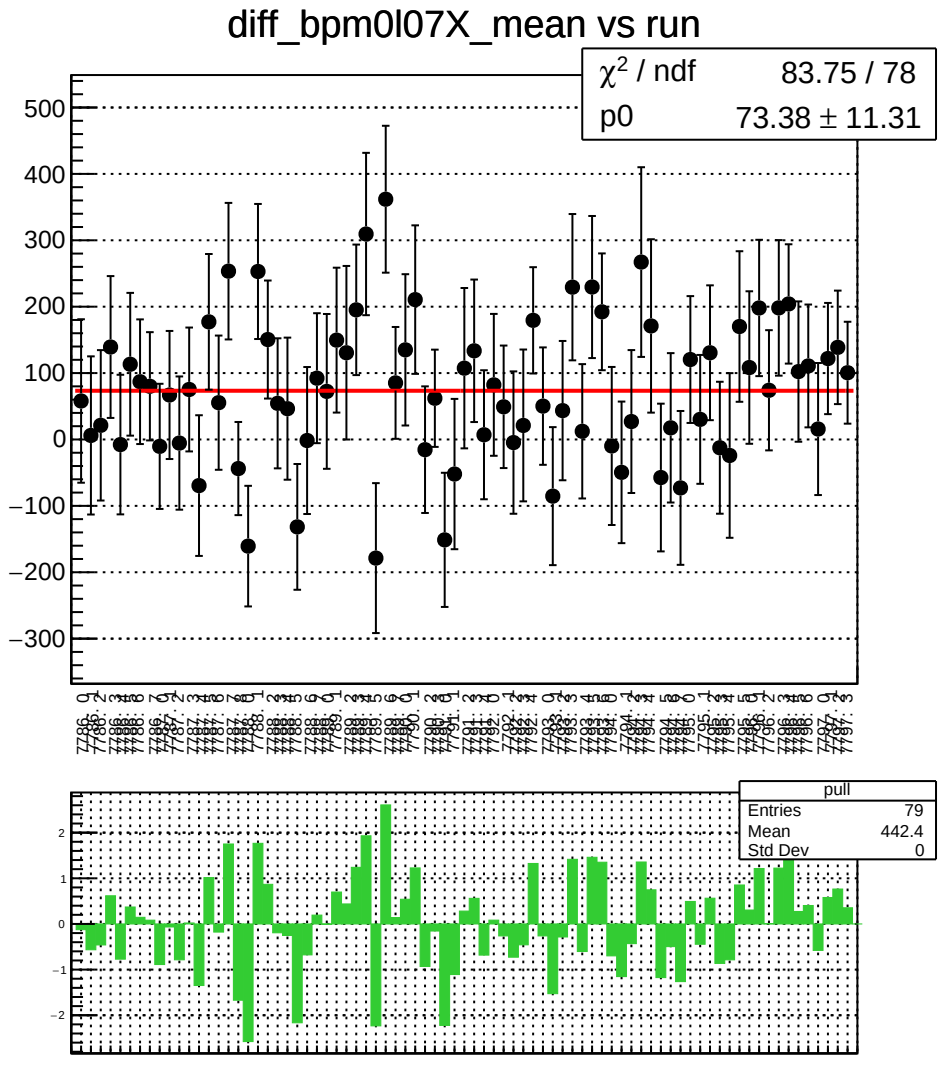

pull1D
Entries 79
Mean 0.008394
Std Dev 1.029

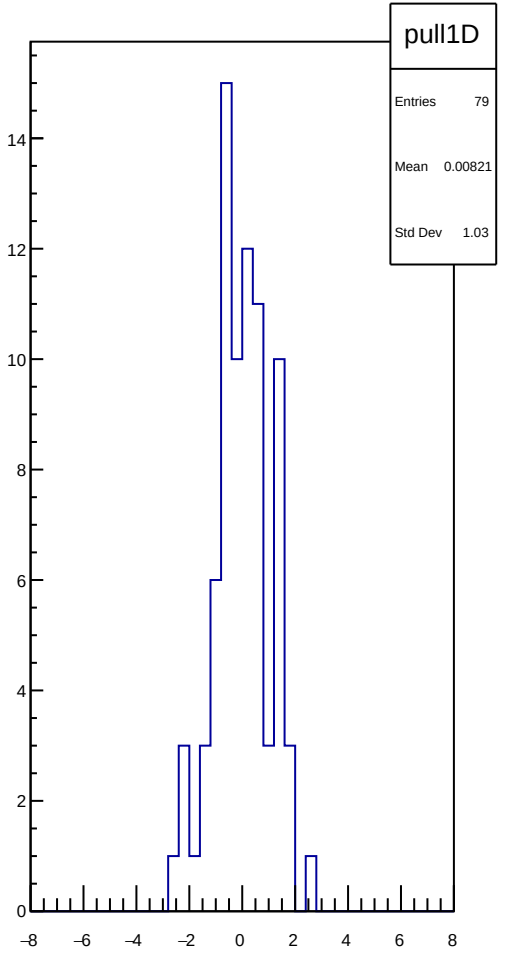

diff_bpm0l06X_rms vs run
χ² / ndf 1.555e+04 / 78
p0 5904 ± 4.791
8500
8000
7500
7000
6500
6000
5500
5000
4500

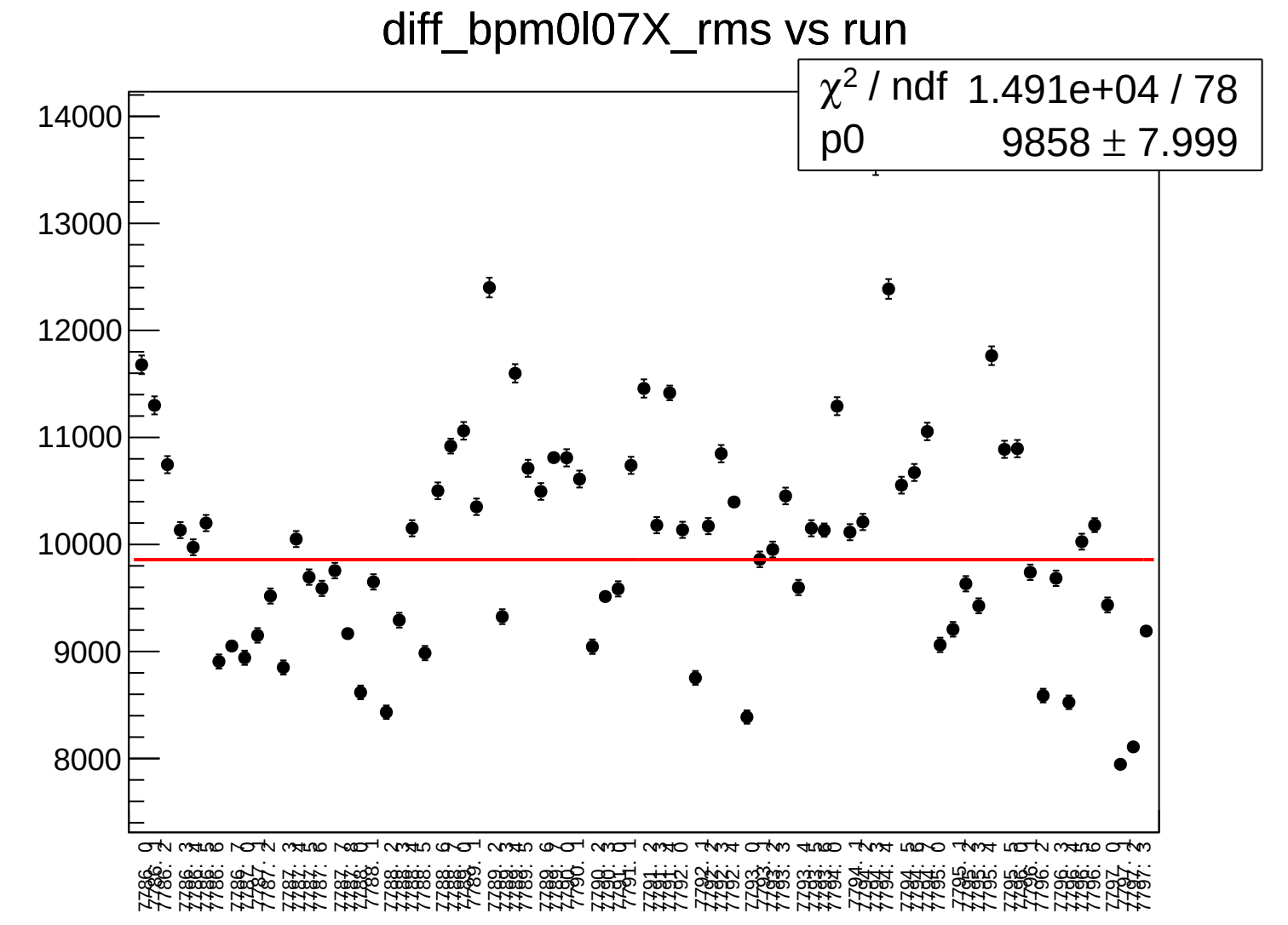

diff_bpm0l06Y_mean vs run
χ^2 / ndf 96.49 / 78
p0 −11.95 ± 1.12
pull
Entries 79
Mean 173.6
Std Dev 0

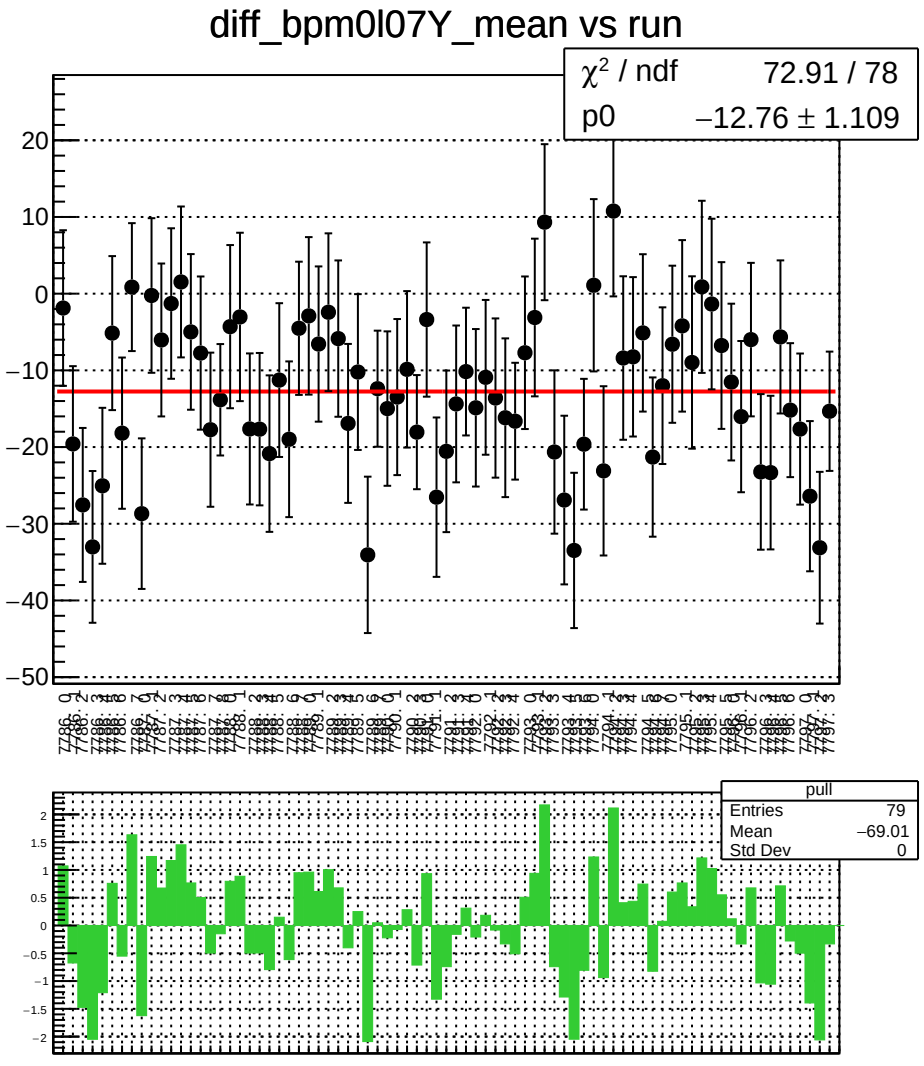

pull1D
Entries 79
Mean 0.02707
Std Dev 1.105

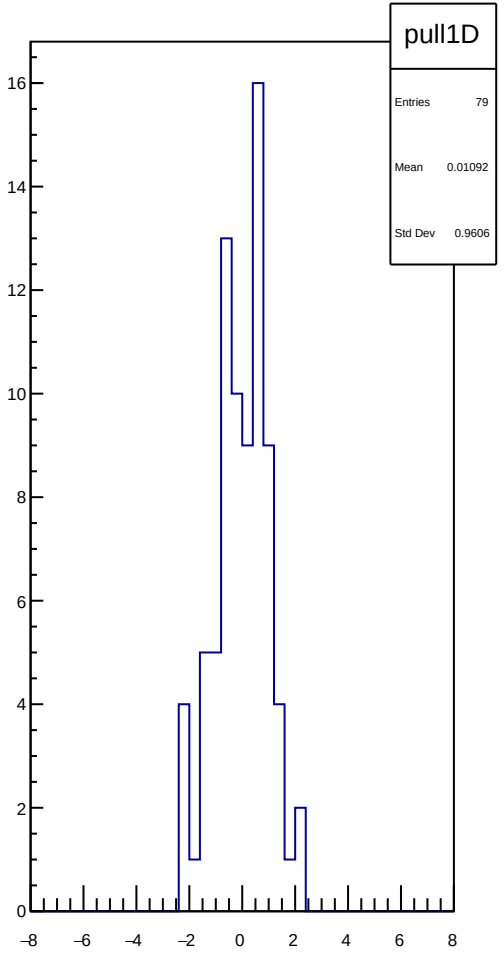

diff_bpm0l06Y_rms vs run
χ^2 / ndf 1491 / 78
p0 980.4 ± 0.792
1100
1080
1060
1040
1020
1000
980
960
940
920

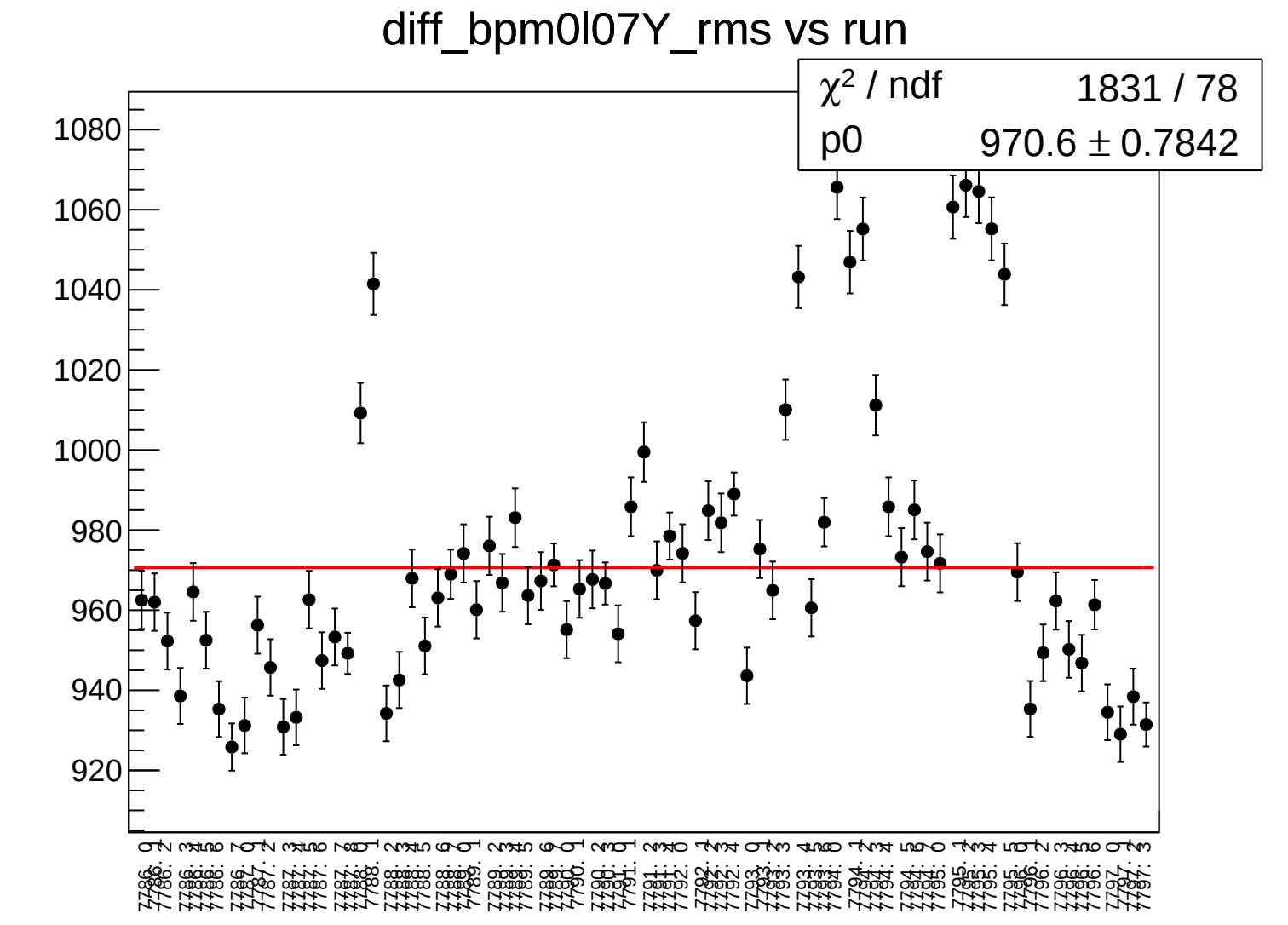

diff_bpm0l07X_mean vs run
χ² / ndf 83.75 / 78
p0 73.38 ± 11.31
pull
Entries 79
Mean 442.4
Std Dev 0

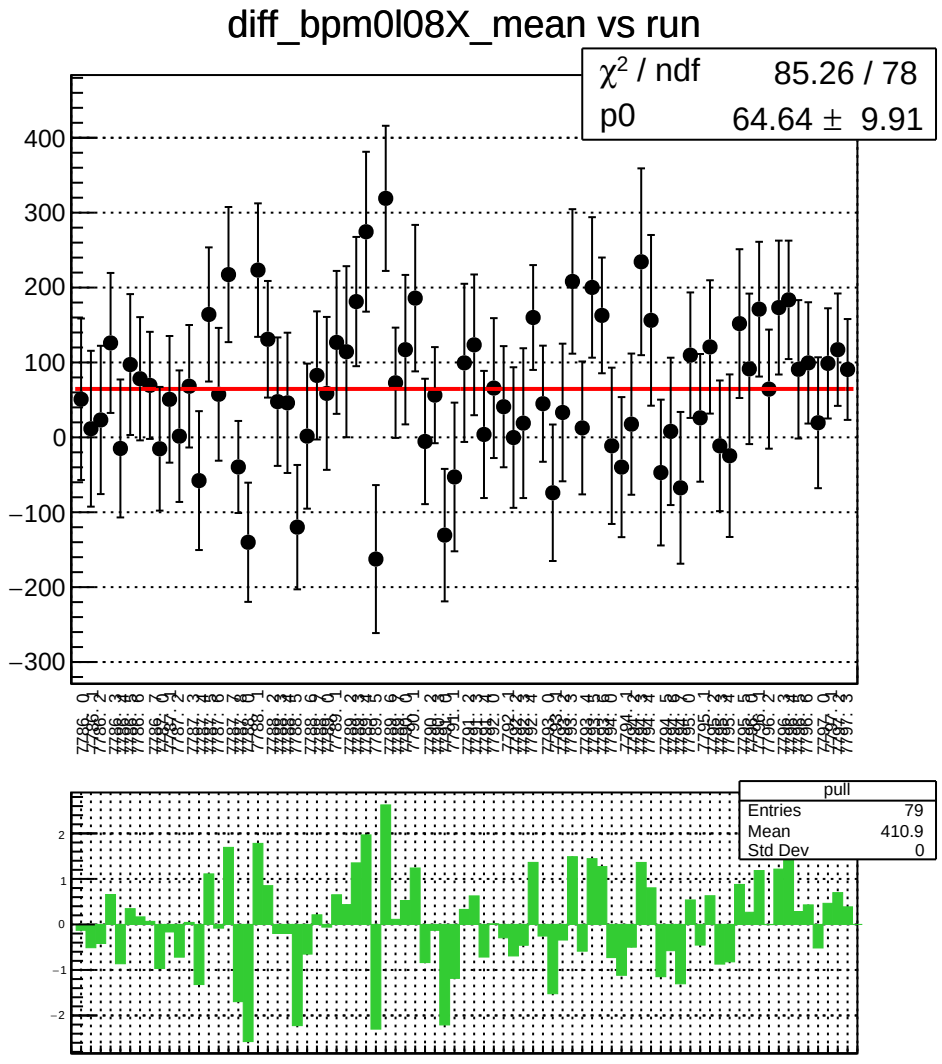

pull1D
Entries 79
Mean 0.00821
Std Dev 1.03

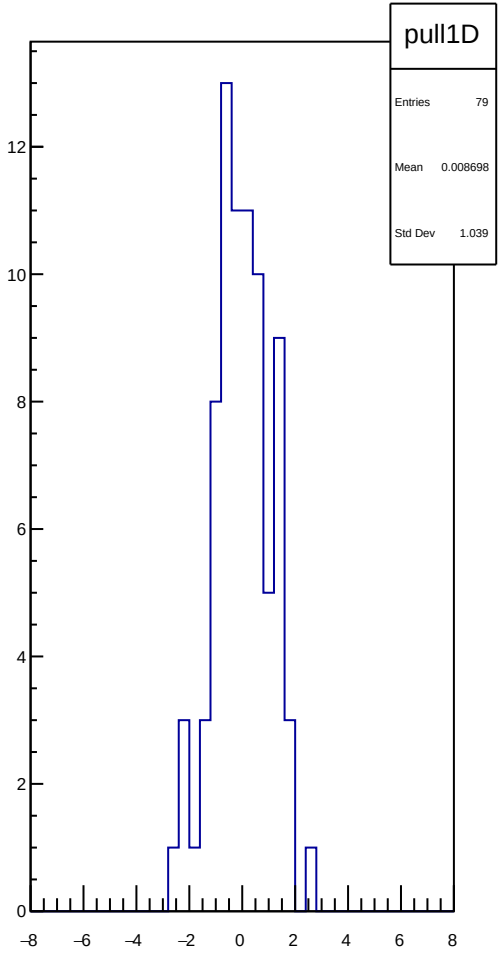

diff_bpm0l07X_rms vs run
χ^2 / ndf 1.491e+04 / 78
p0 9858 ± 7.999
14000
13000
12000
11000
10000
9000
8000

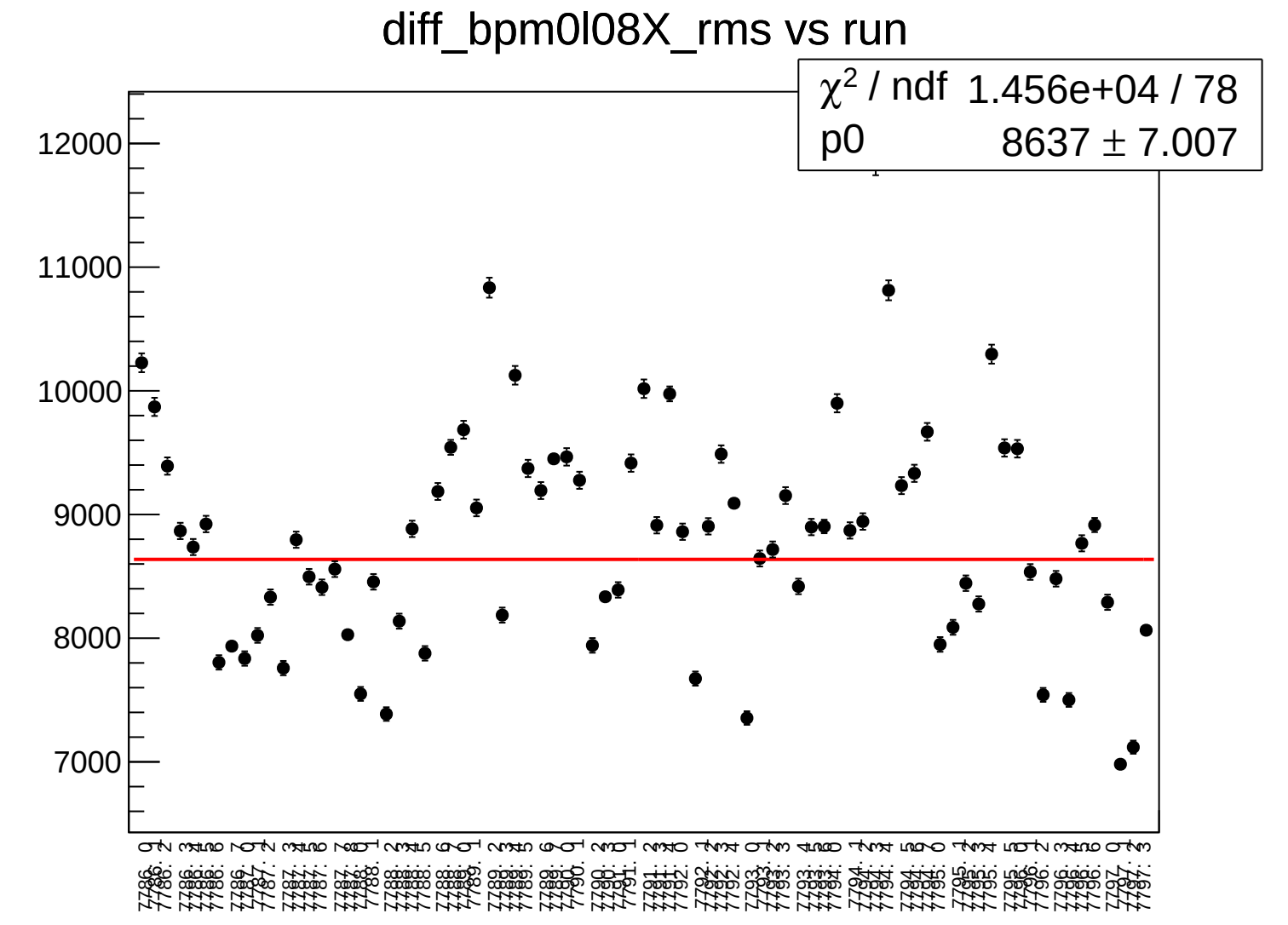

diff_bpm0l07Y_mean vs run
χ^2 / ndf 72.91 / 78
p0 −12.76 ± 1.109
pull
Entries 79
Mean −69.01
Std Dev 0

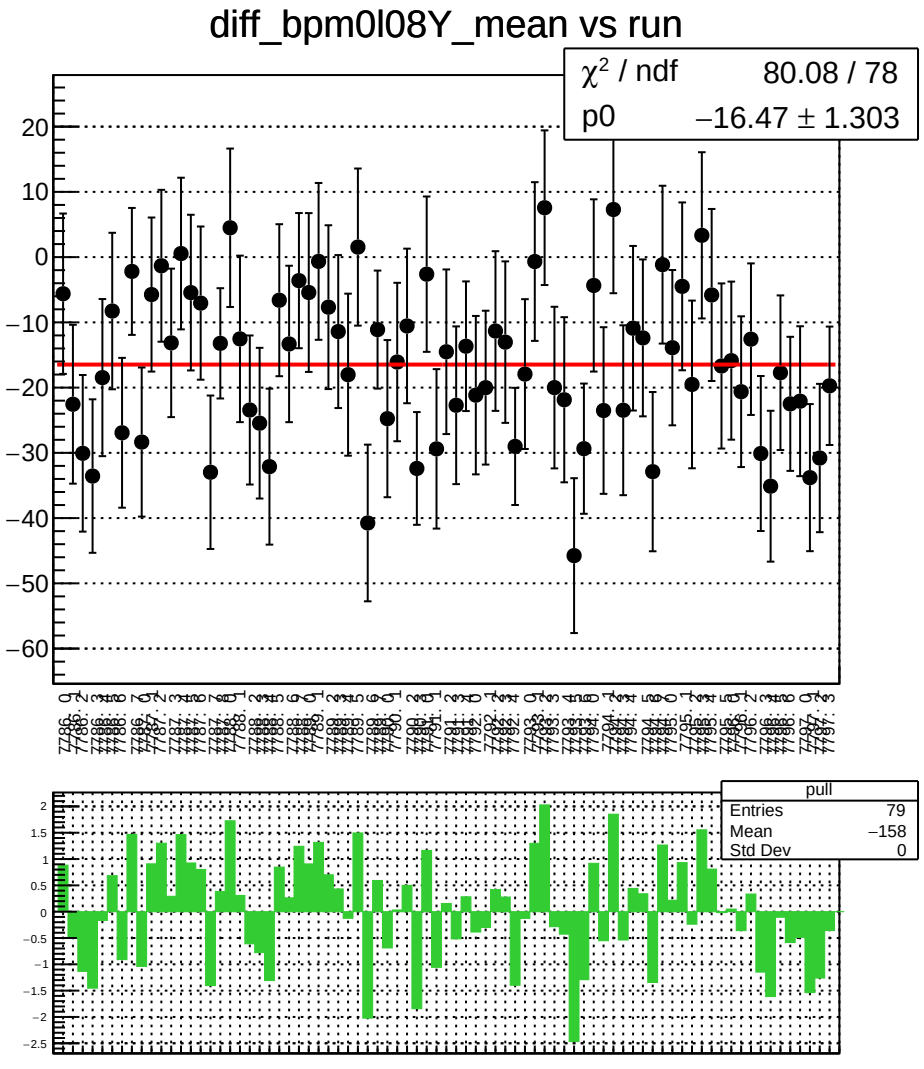

pull1D
Entries 79
Mean 0.01092
Std Dev 0.9606

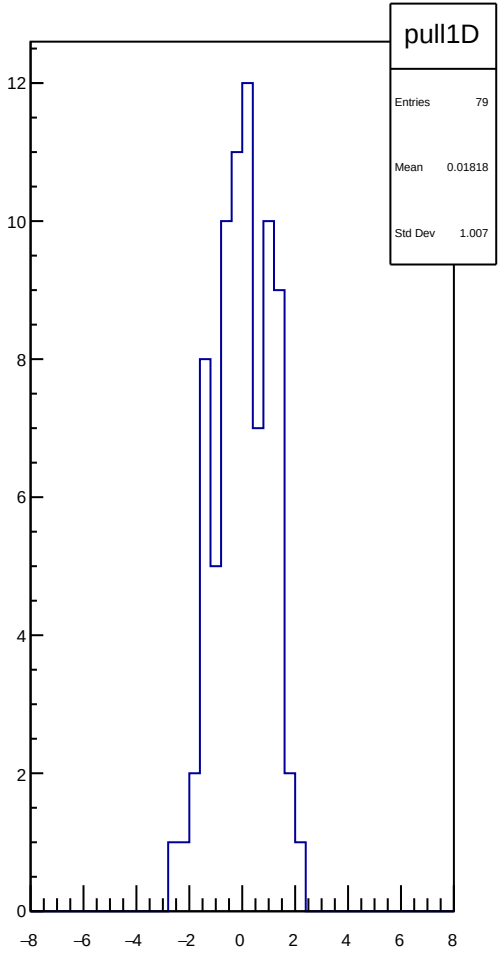

diff_bpm0l07Y_rms vs run
χ^2 / ndf 1831 / 78
p0 970.6 ± 0.7842
1080
1060
1040
1020
1000
980
960
940
920

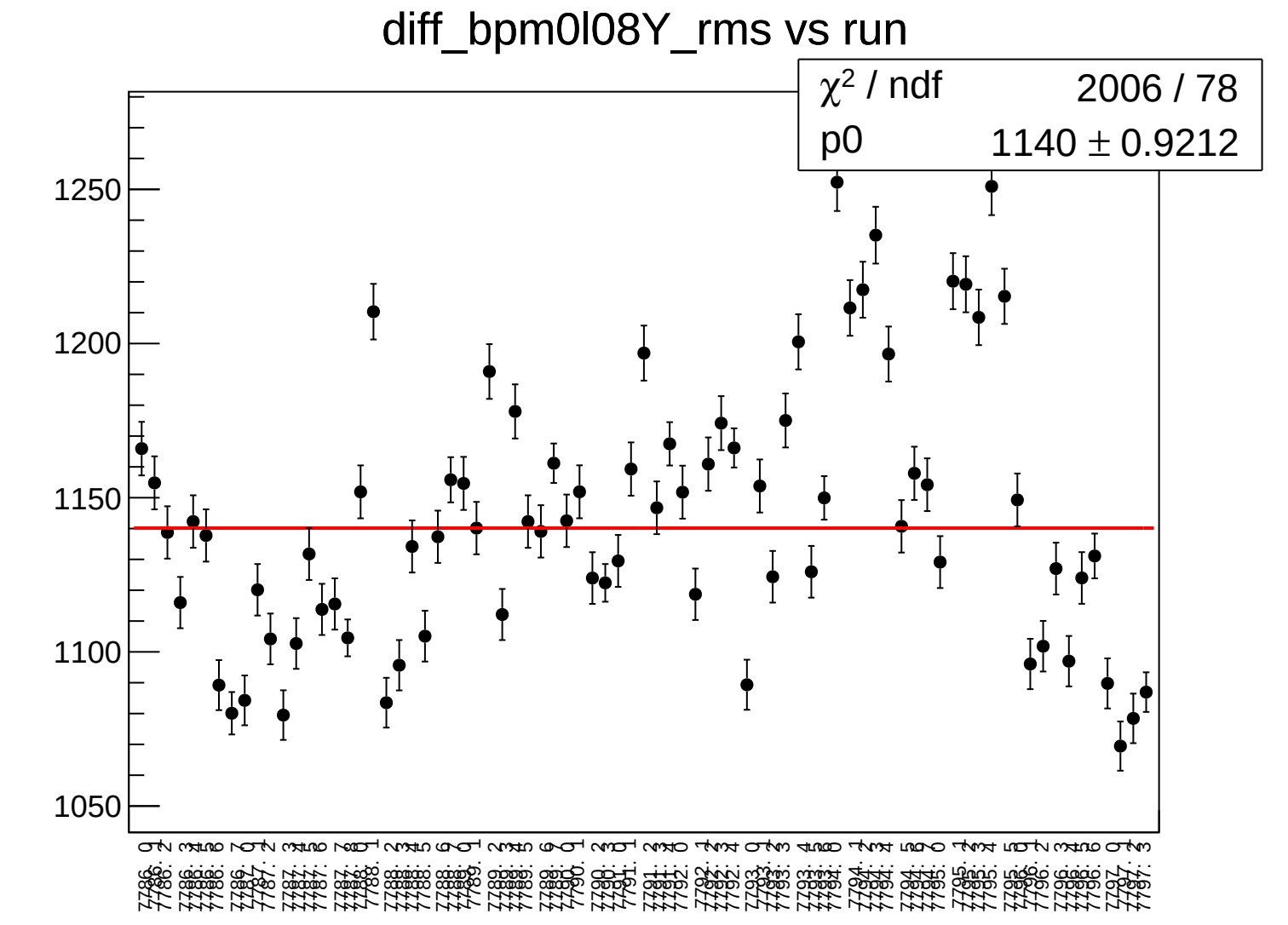

diff_bpm0l08X_mean vs run
χ² / ndf 85.26 / 78
p0 64.64 ± 9.91
pull
Entries 79
Mean 410.9
Std Dev 0

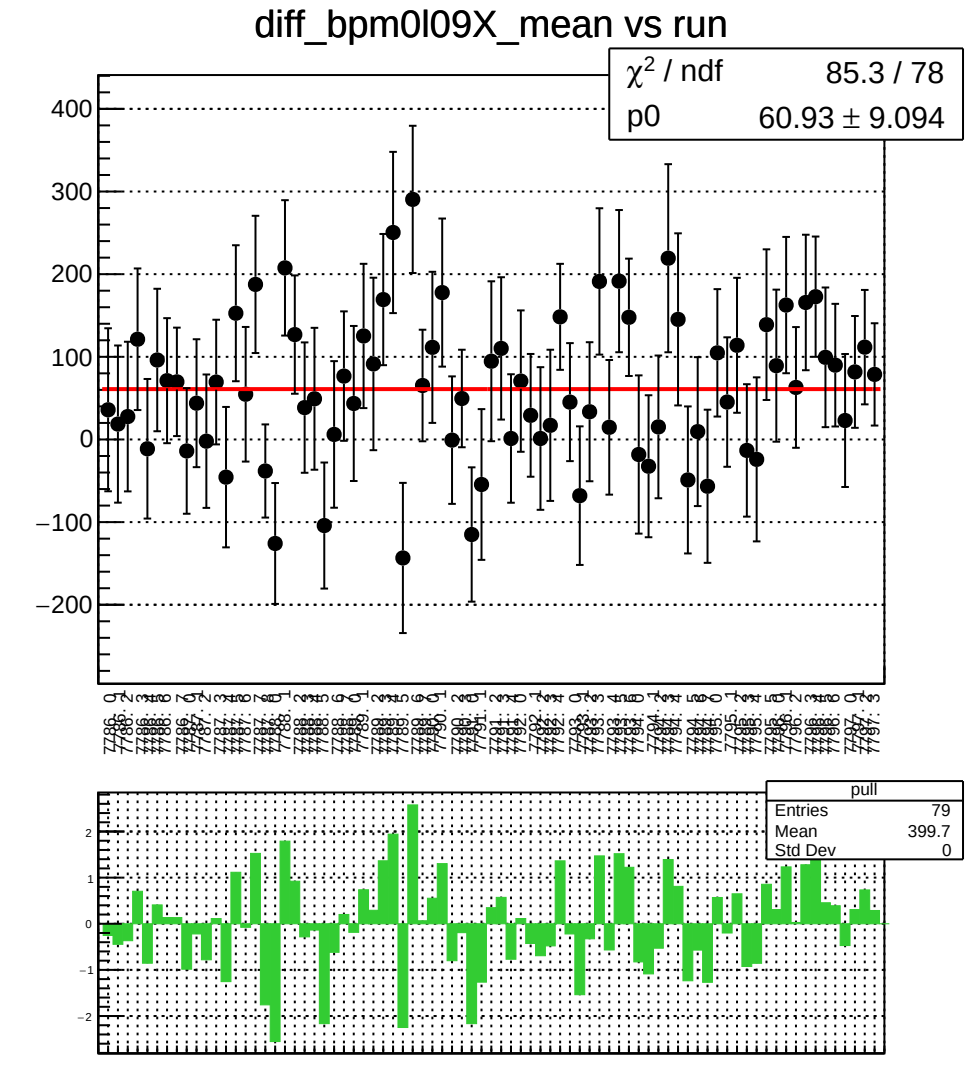

pull1D
Entries 79
Mean 0.008698
Std Dev 1.039

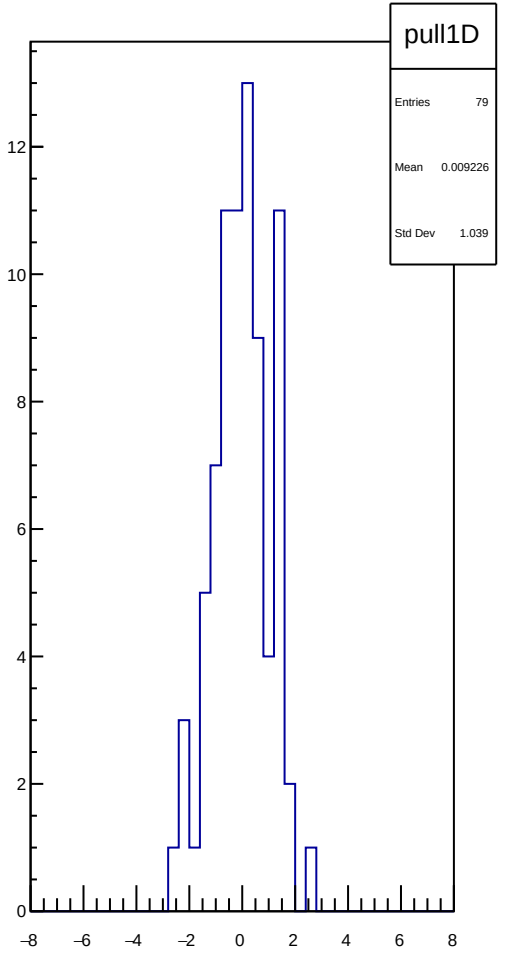

diff_bpm0l08X_rms vs run
χ^2 / ndf 1.456e+04 / 78
p0 8637 ± 7.007
12000
11000
10000
9000
8000
7000

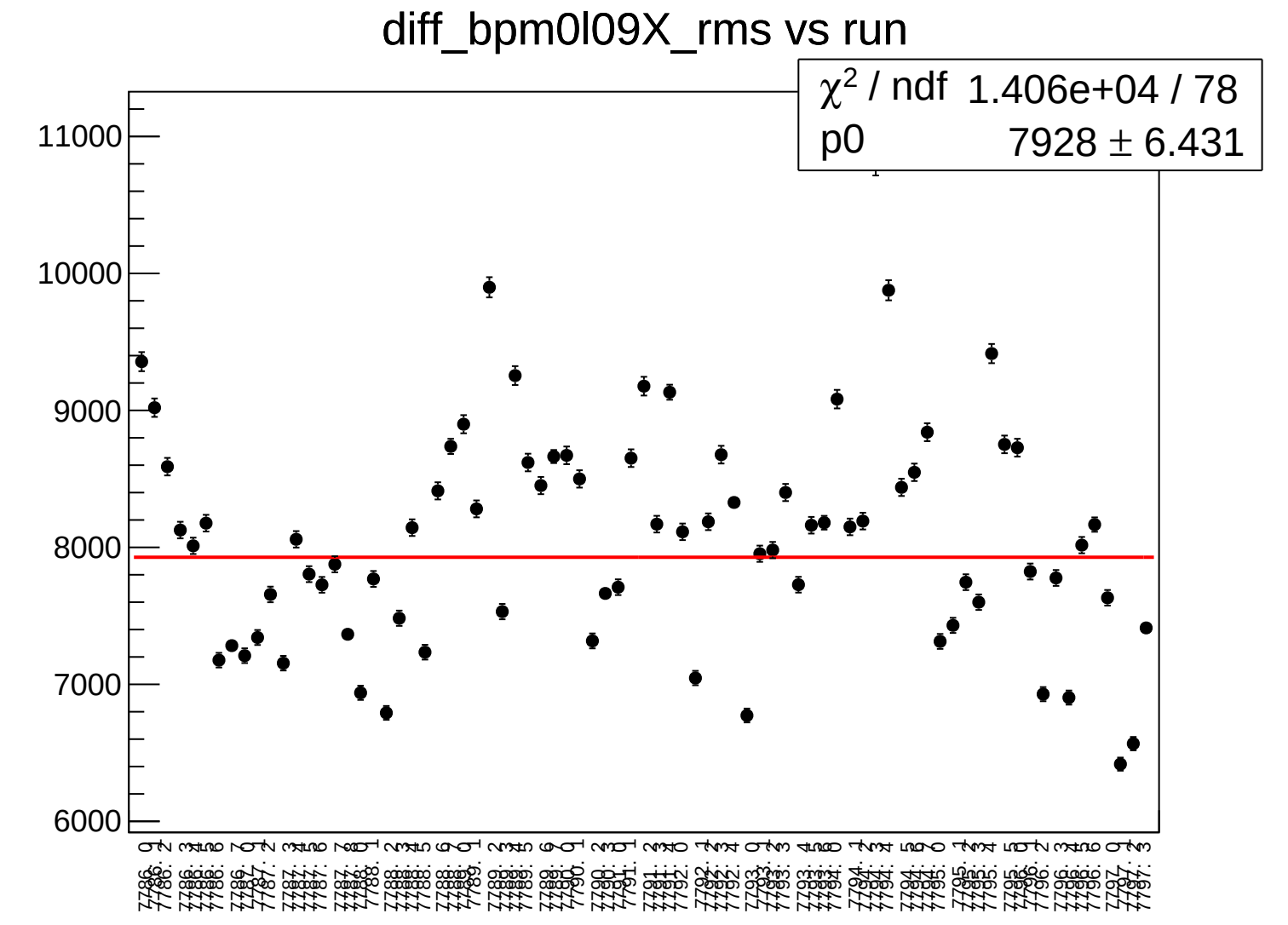

diff_bpm0l08Y_mean vs run
χ² / ndf 80.08 / 78
p0 −16.47 ± 1.303
pull
Entries 79
Mean −158
Std Dev 0

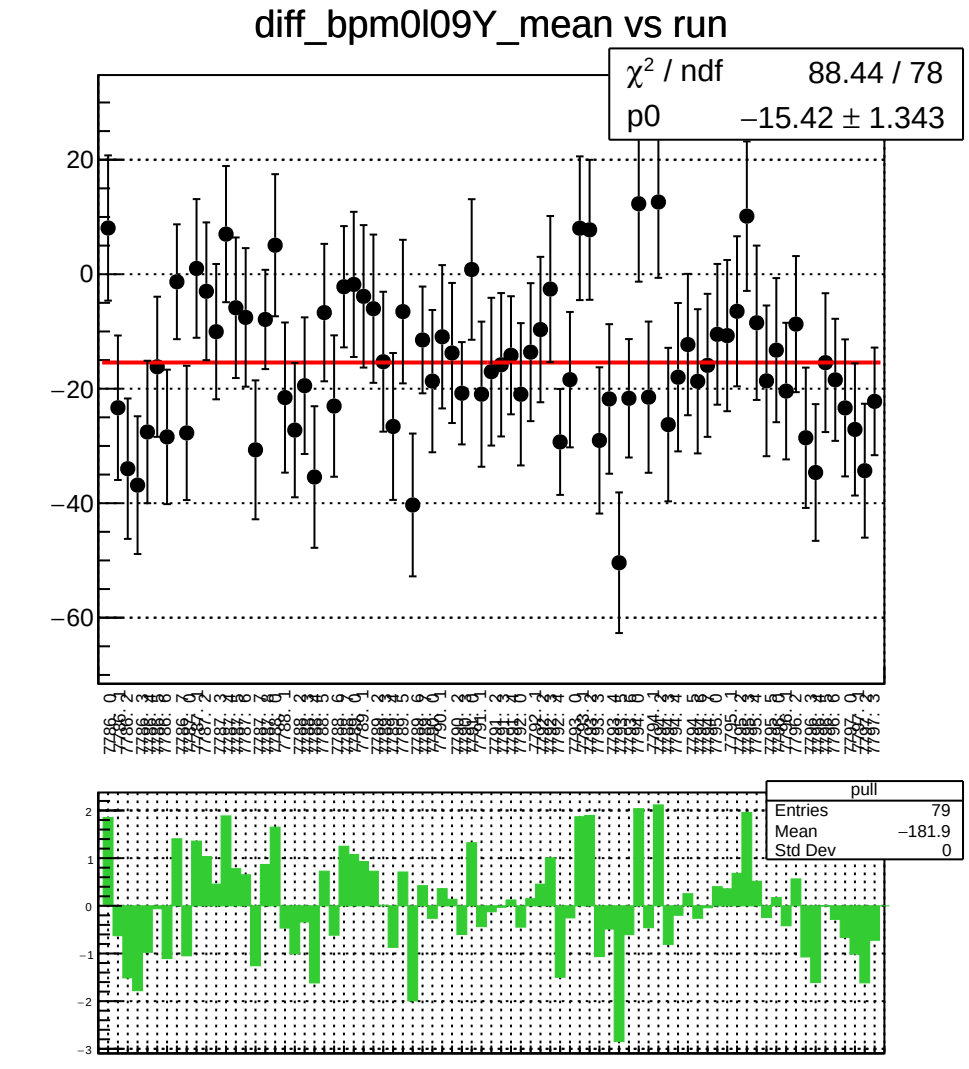

pull1D
Entries 79
Mean 0.01818
Std Dev 1.007

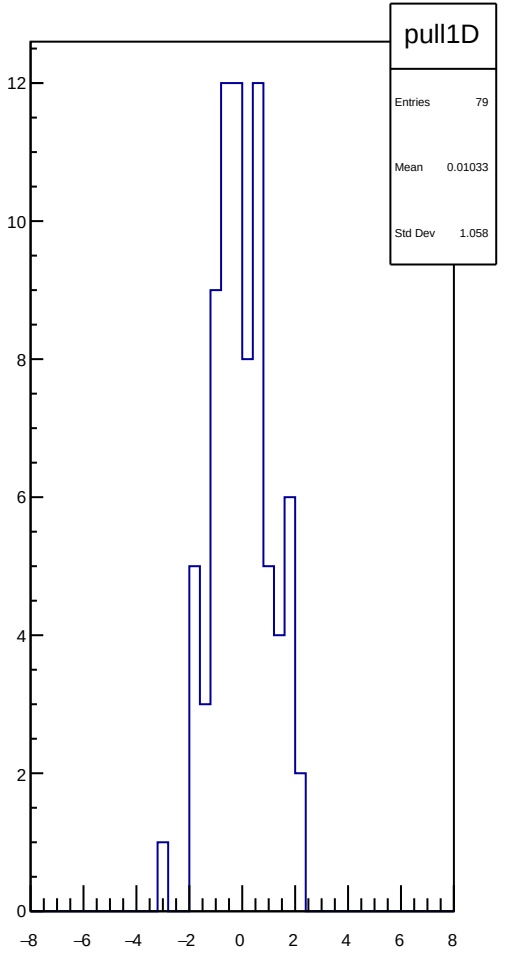

diff_bpm0l08Y_rms vs run
χ² / ndf 2006 / 78
p0 1140 ± 0.9212
1250
1200
1150
1100
1050

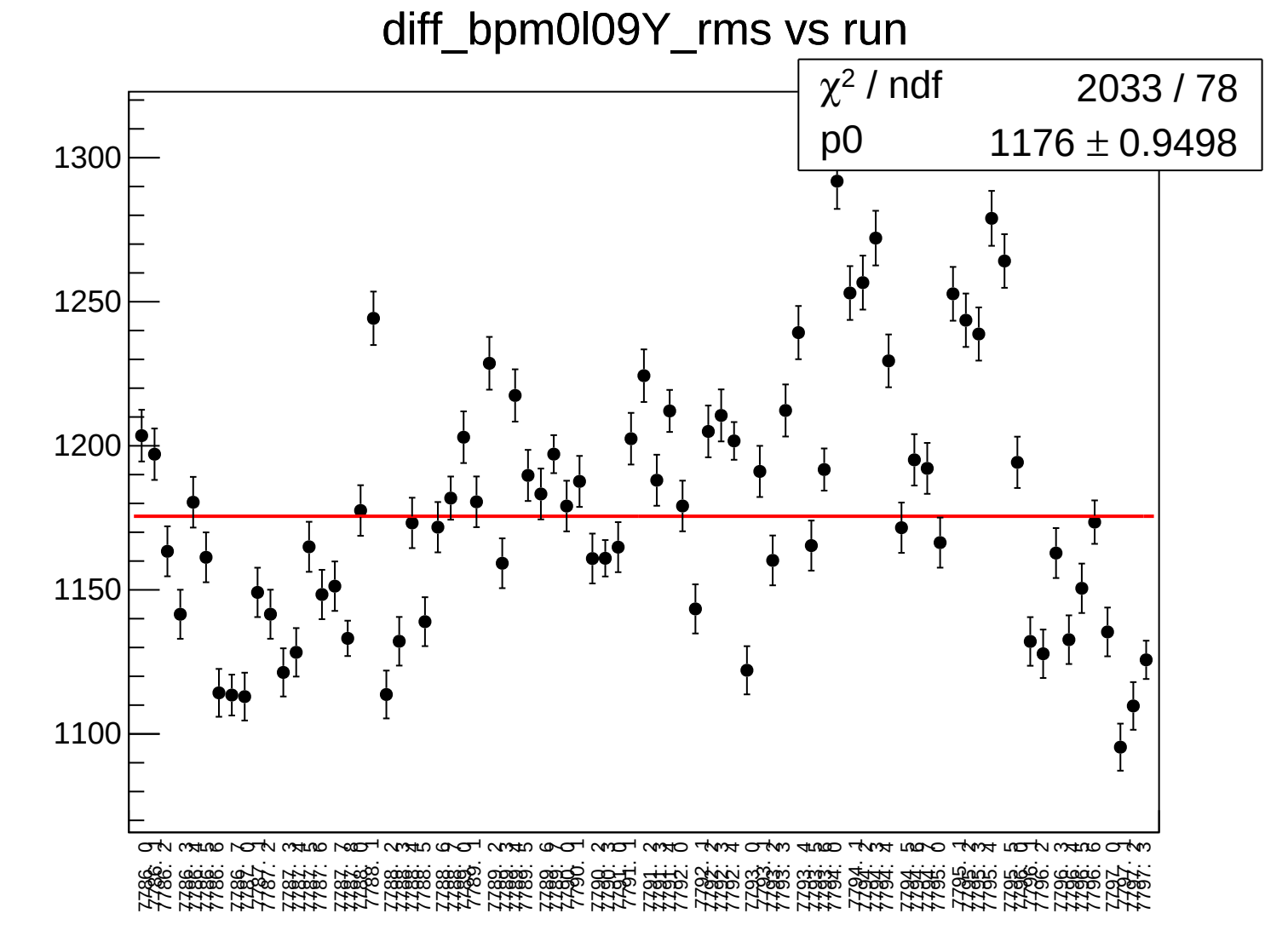

diff_bpm0l09X_mean vs run
χ² / ndf 85.3 / 78
p0 60.93 ± 9.094
pull
Entries 79
Mean 399.7
Std Dev 0

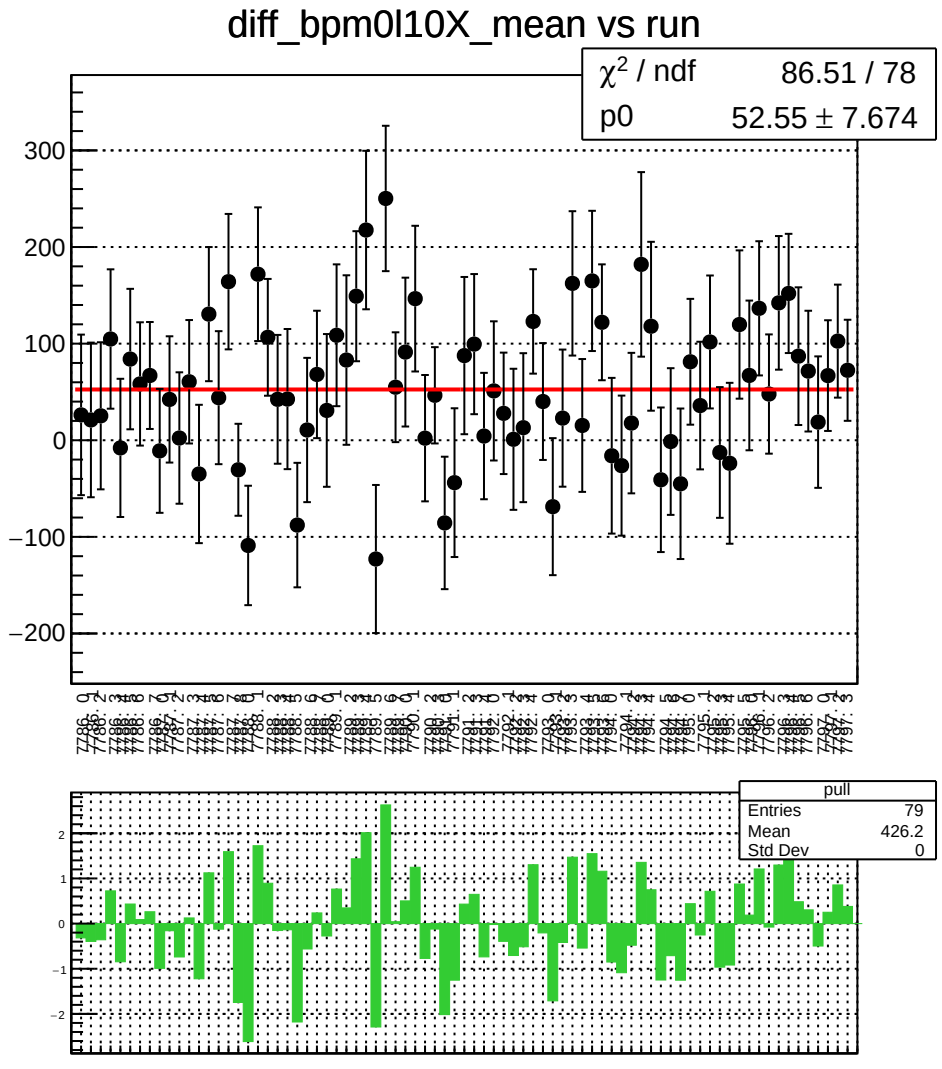

pull1D
Entries 79
Mean 0.009226
Std Dev 1.039

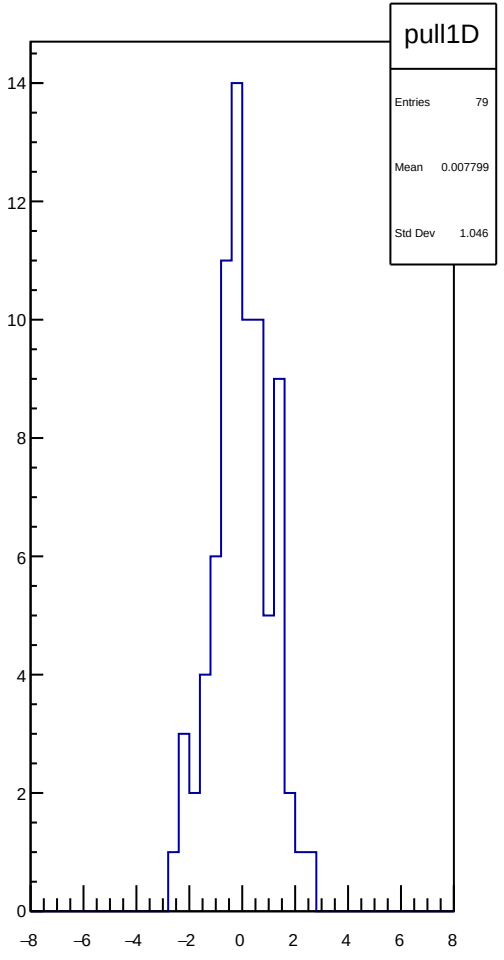

diff_bpm0l09X_rms vs run
χ² / ndf 1.406e+04 / 78
p0 7928 ± 6.431
11000
10000
9000
8000
7000
6000

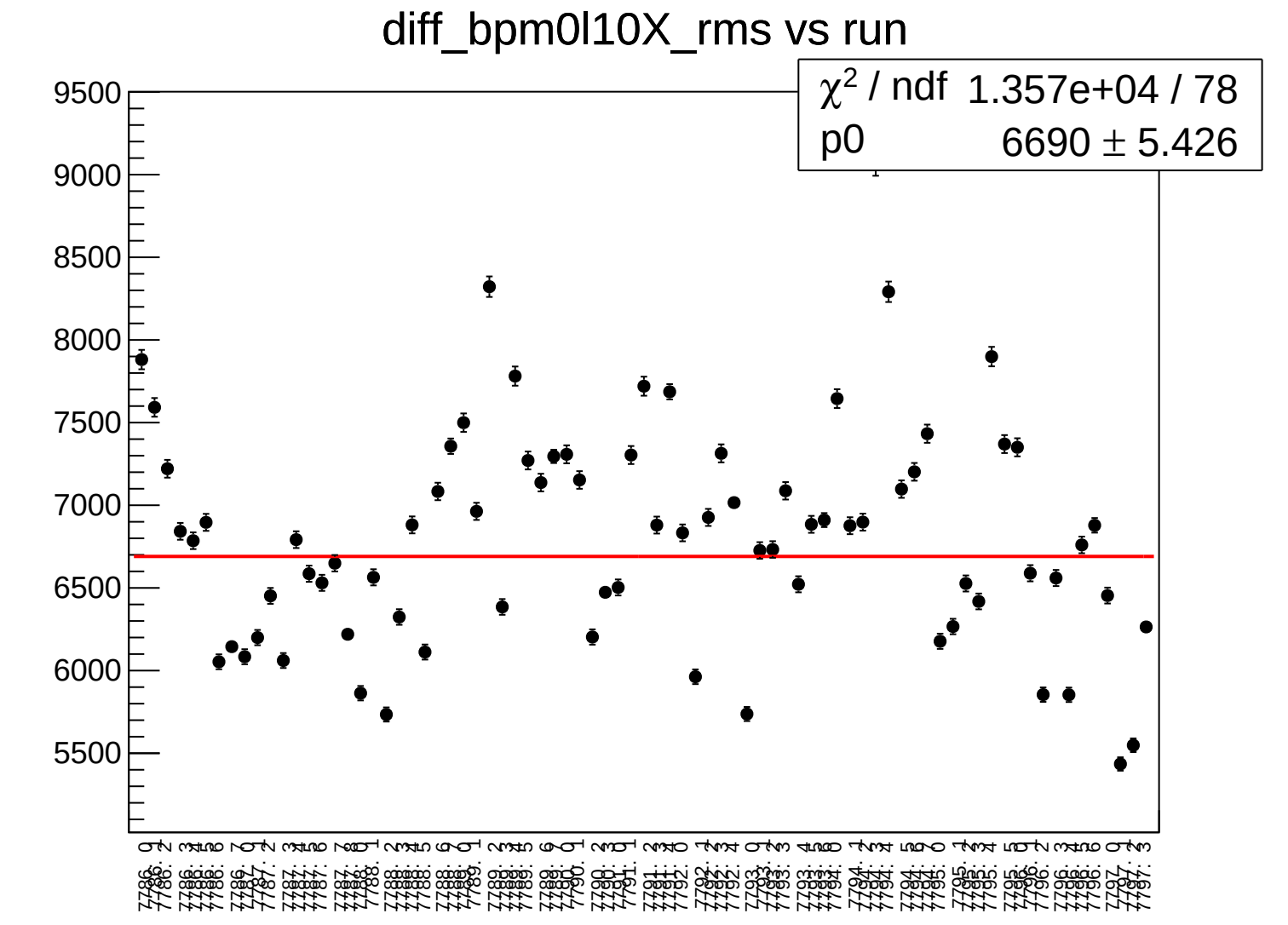

diff_bpm0l09Y_mean vs run
χ² / ndf 88.44 / 78
p0 −15.42 ± 1.343
pull
Entries 79
Mean −181.9
Std Dev 0

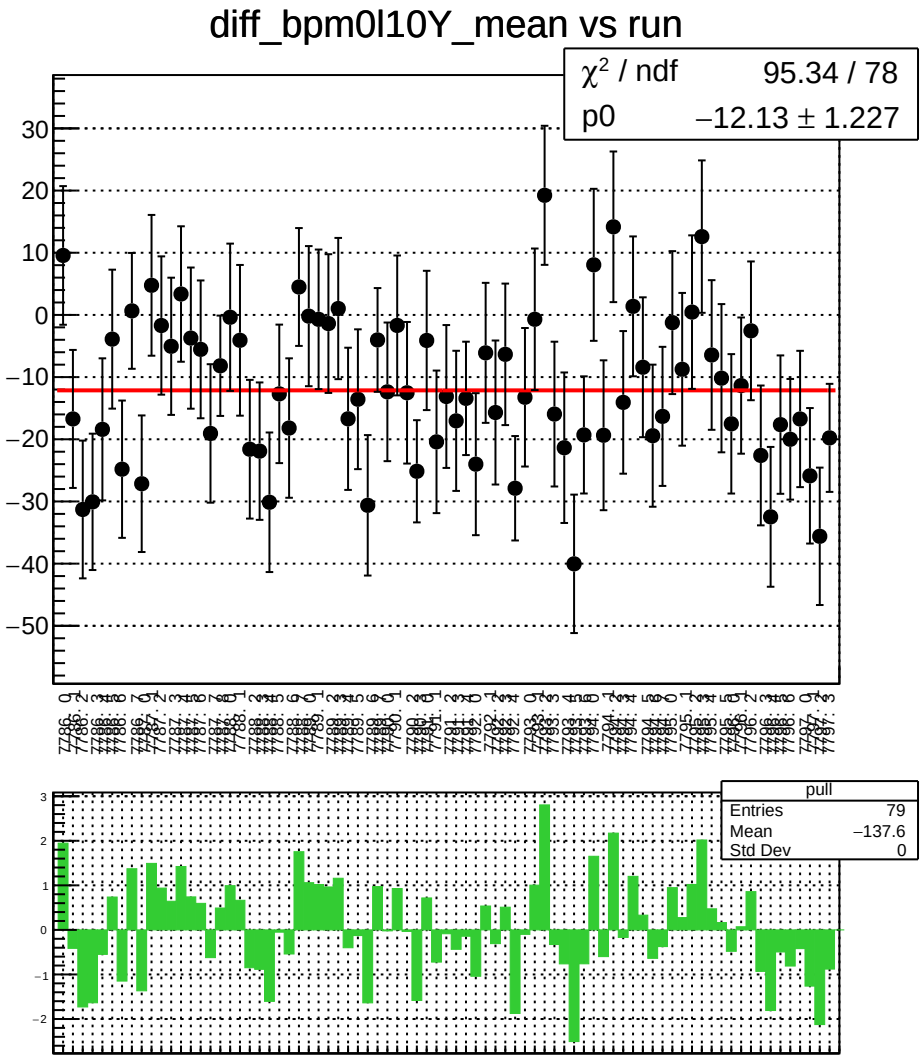

pull1D
Entries 79
Mean 0.01033
Std Dev 1.058

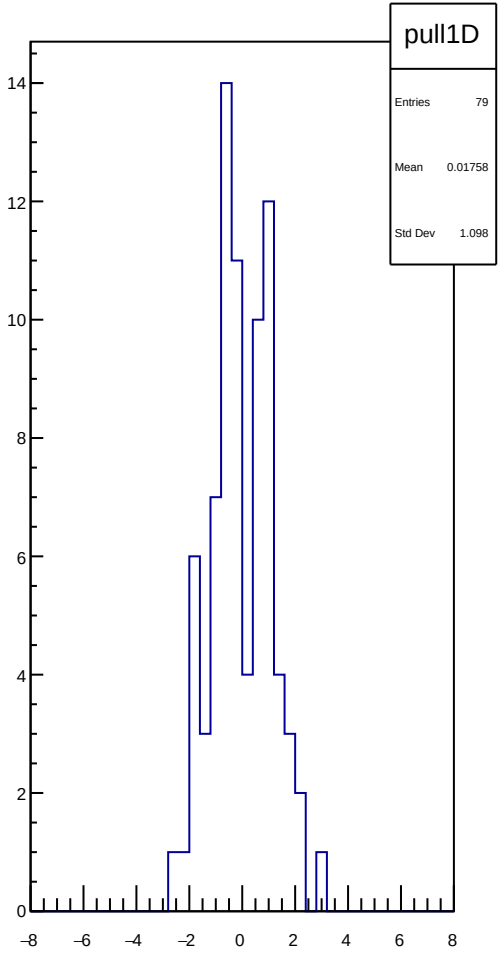

diff_bpm0l09Y_rms vs run
χ² / ndf 2033 / 78
p0 1176 ± 0.9498
1300
1250
1200
1150
1100

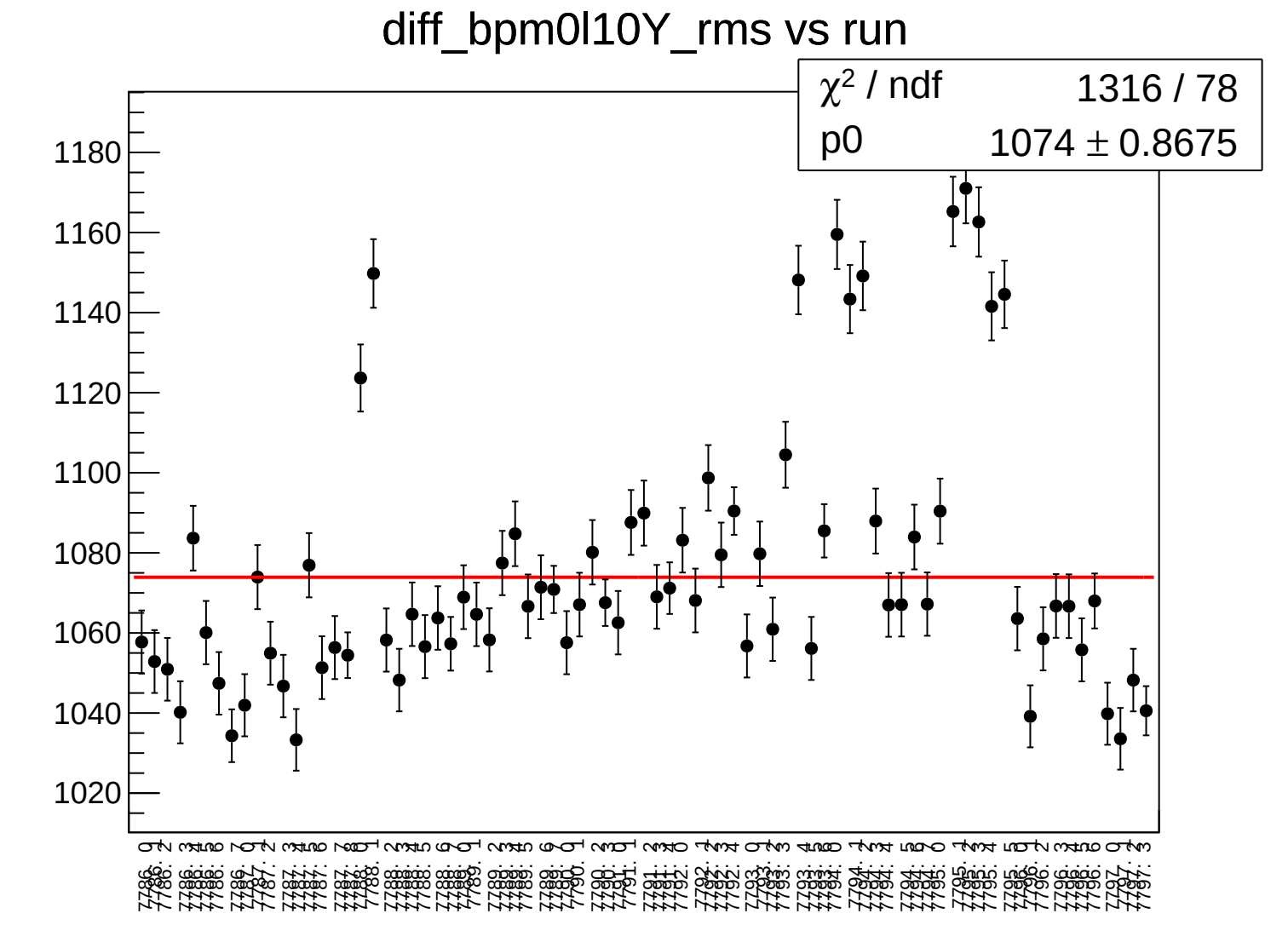

diff_bpm0l10X_mean vs run
χ² / ndf 86.51 / 78
p0 52.55 ± 7.674
pull
Entries 79
Mean 426.2
Std Dev 0

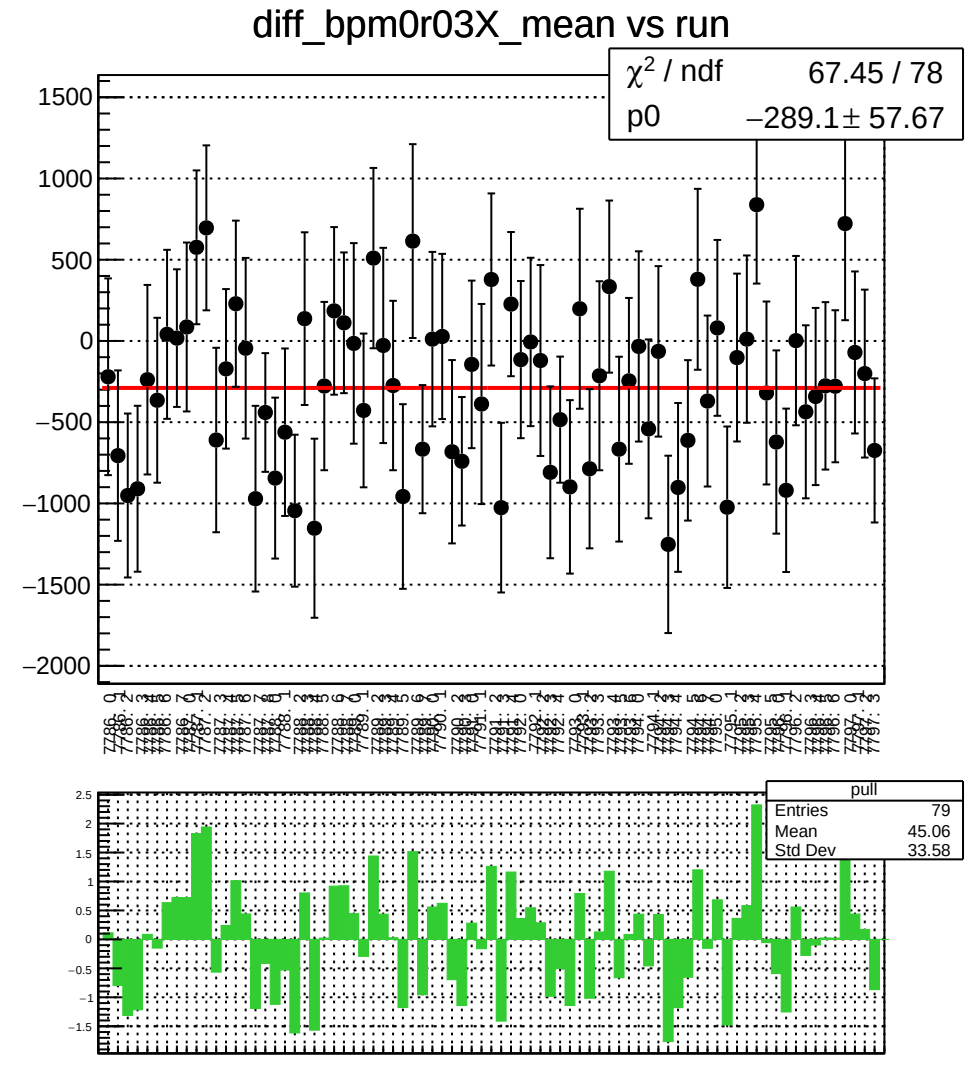

pull1D
Entries 79
Mean 0.007799
Std Dev 1.046

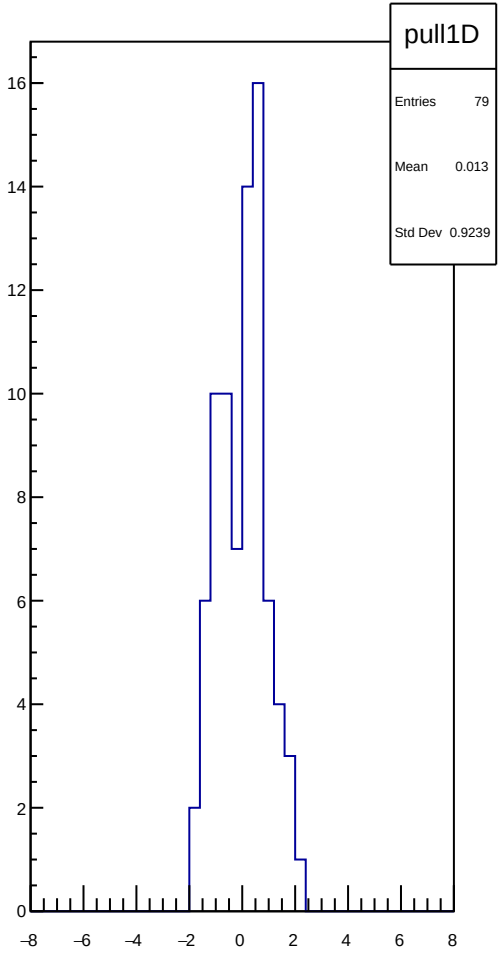

diff_bpm0l10X_rms vs run
χ^2 / ndf 1.357e+04 / 78
p0 6690 ± 5.426
9500
9000
8500
8000
7500
7000
6500
6000
5500

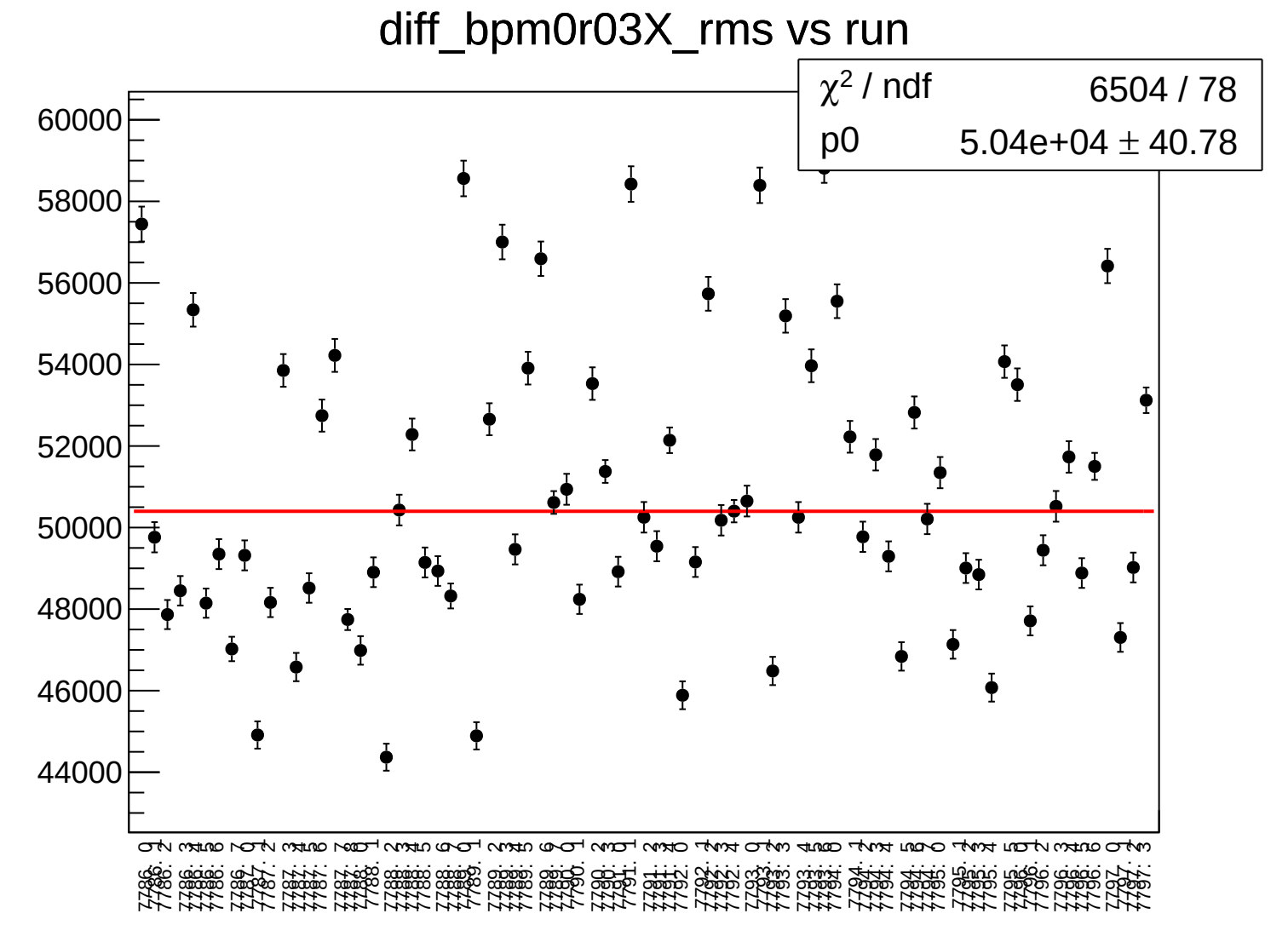

diff_bpm0l10Y_mean vs run
χ^2 / ndf 95.34 / 78
p0 −12.13 ± 1.227
pull
Entries 79
Mean −137.6
Std Dev 0

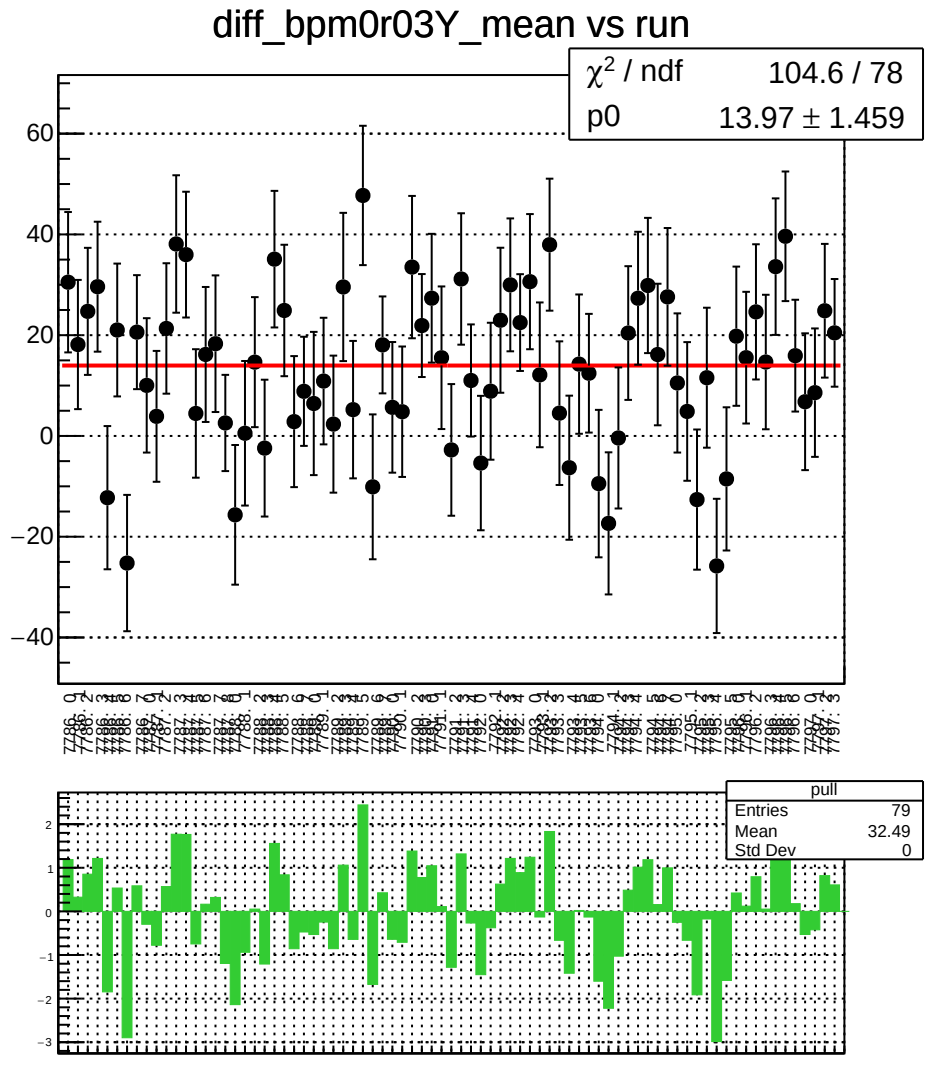

pull1D
Entries 79
Mean 0.01758
Std Dev 1.098

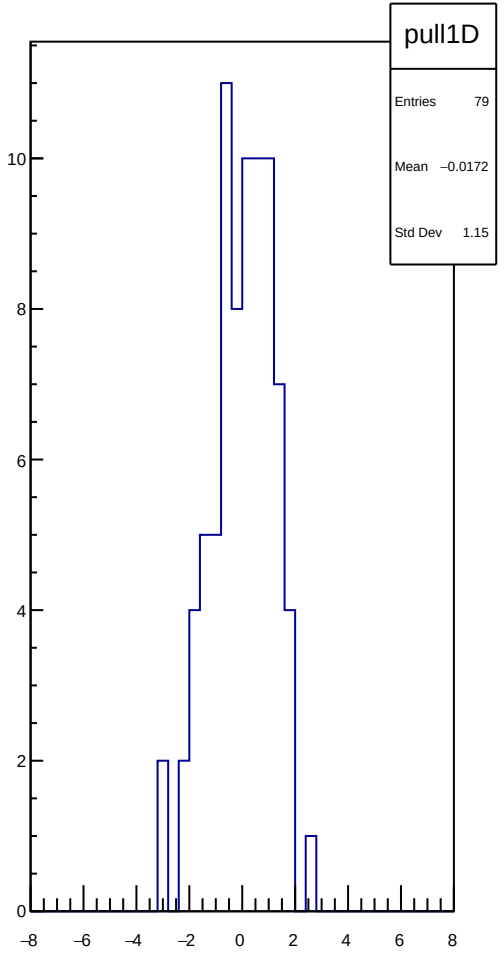

diff_bpm0l10Y_rms vs run
χ² / ndf 1316 / 78
p0 1074 ± 0.8675
1180
1160
1140
1120
1100
1080
1060
1040
1020

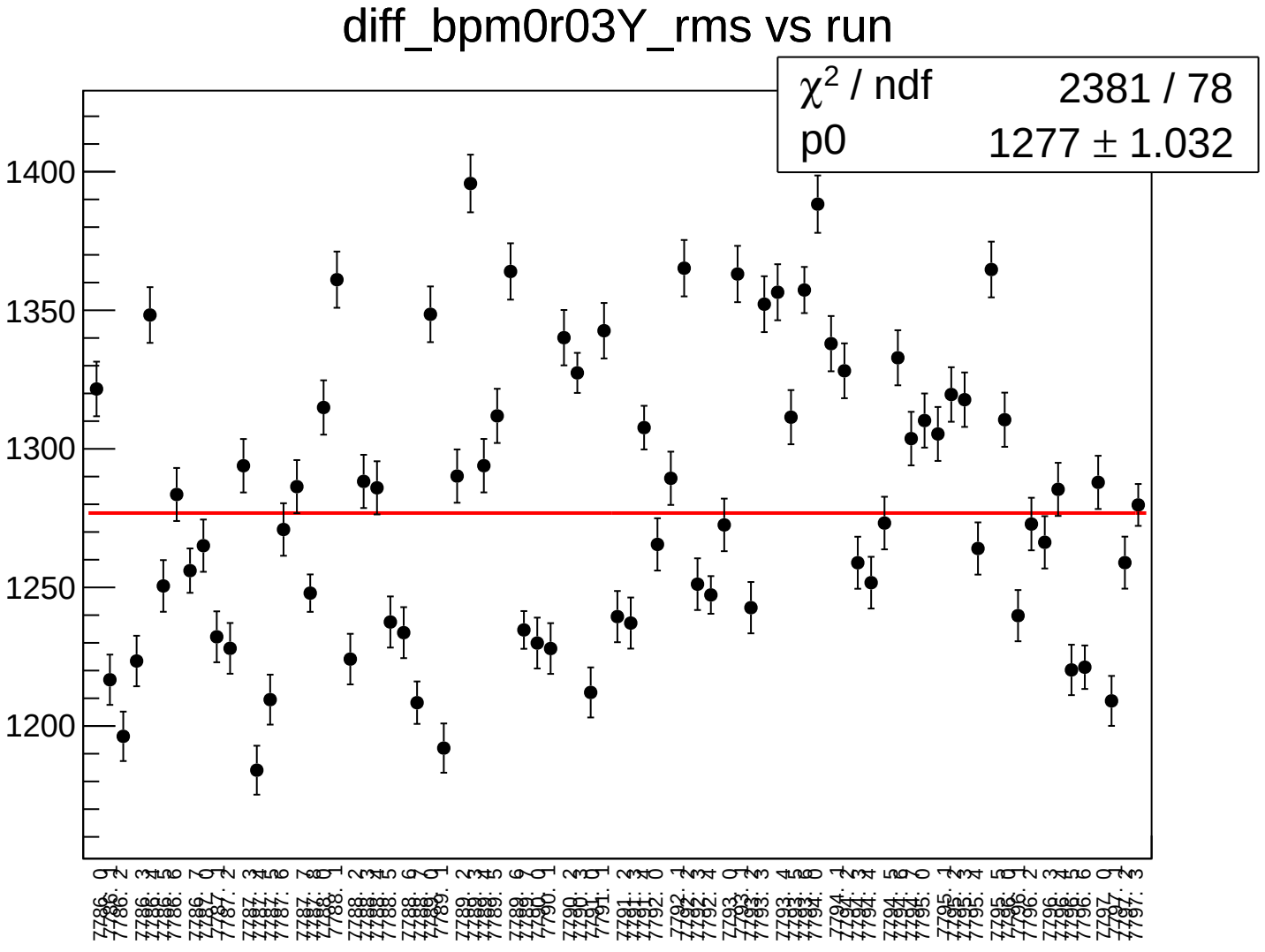

diff_bpm0r03X_mean vs run
χ² / ndf 67.45 / 78
p0 −289.1 ± 57.67
pull
Entries 79
Mean 45.06
Std Dev 33.58

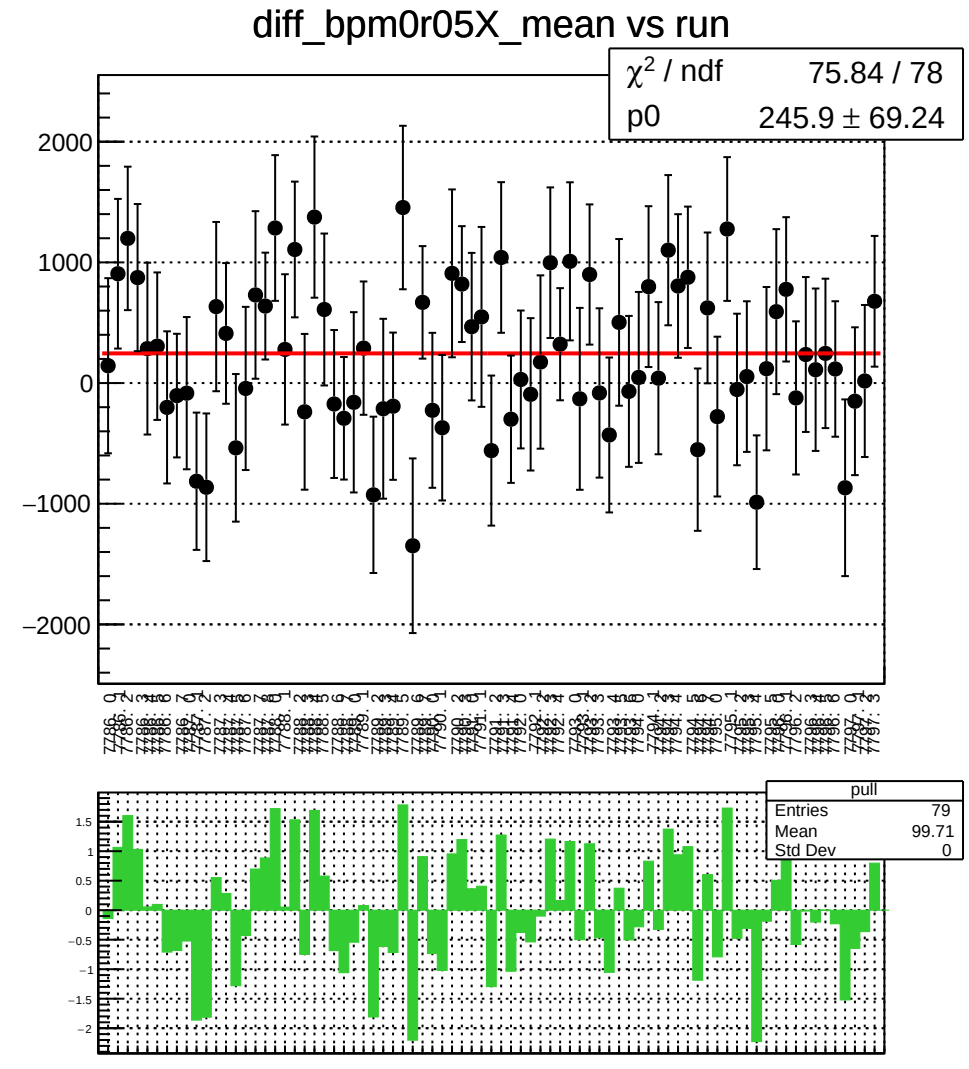

pull1D
Entries 79
Mean 0.013
Std Dev 0.9239

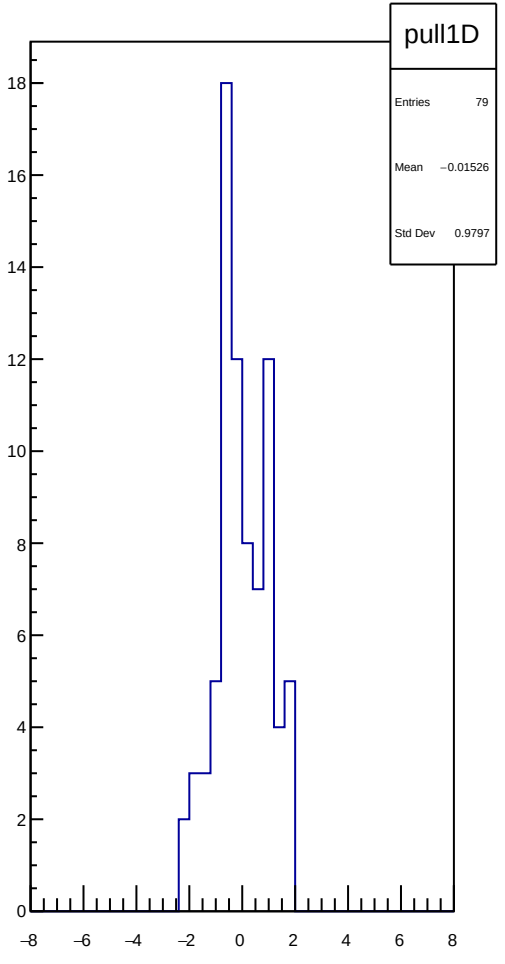

diff_bpm0r03X_rms vs run
χ^2 / ndf 6504 / 78
p0 5.04e+04 ± 40.78
60000
58000
56000
54000
52000
50000
48000
46000
44000

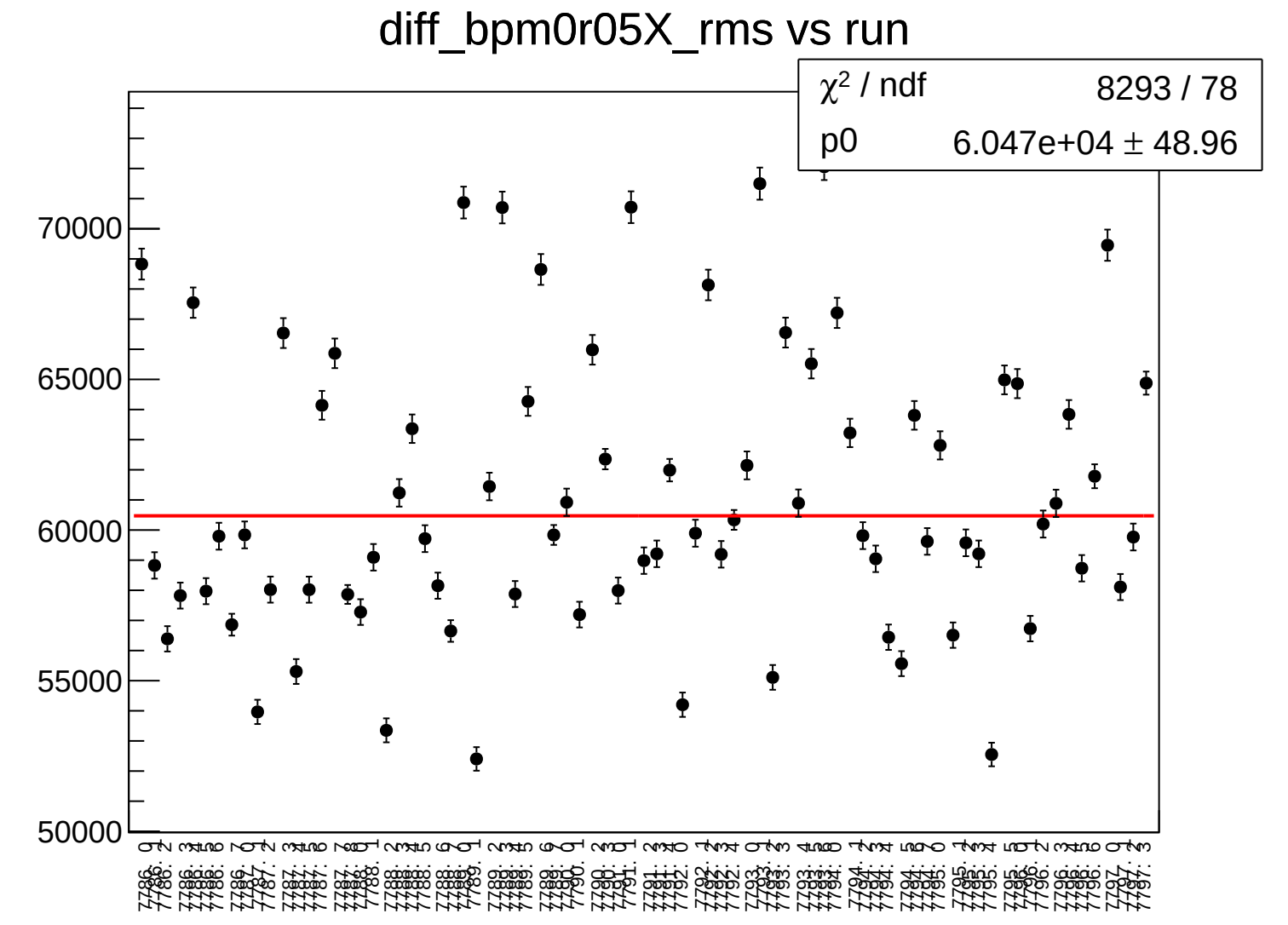

diff_bpm0r03Y_mean vs run
χ² / ndf 104.6 / 78
p0 13.97 ± 1.459
pull
Entries 79
Mean 32.49
Std Dev 0

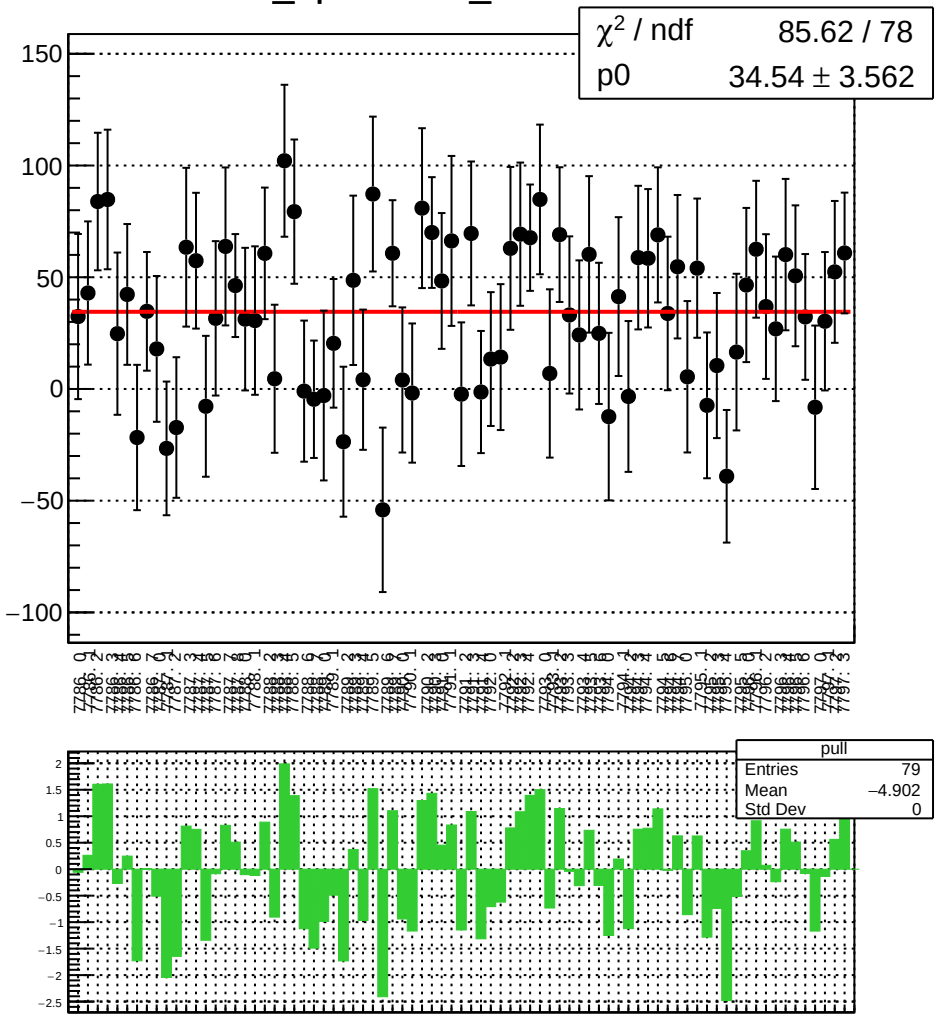

pull1D
Entries 79
Mean −0.0172
Std Dev 1.15

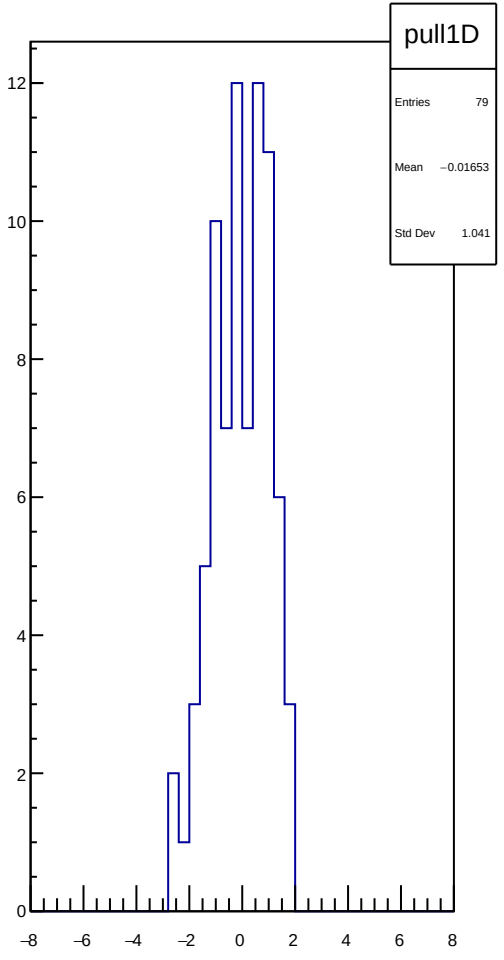

diff_bpm0r03Y_rms vs run
χ² / ndf 2381 / 78
p0 1277 ± 1.032
1400
1350
1300
1250
1200

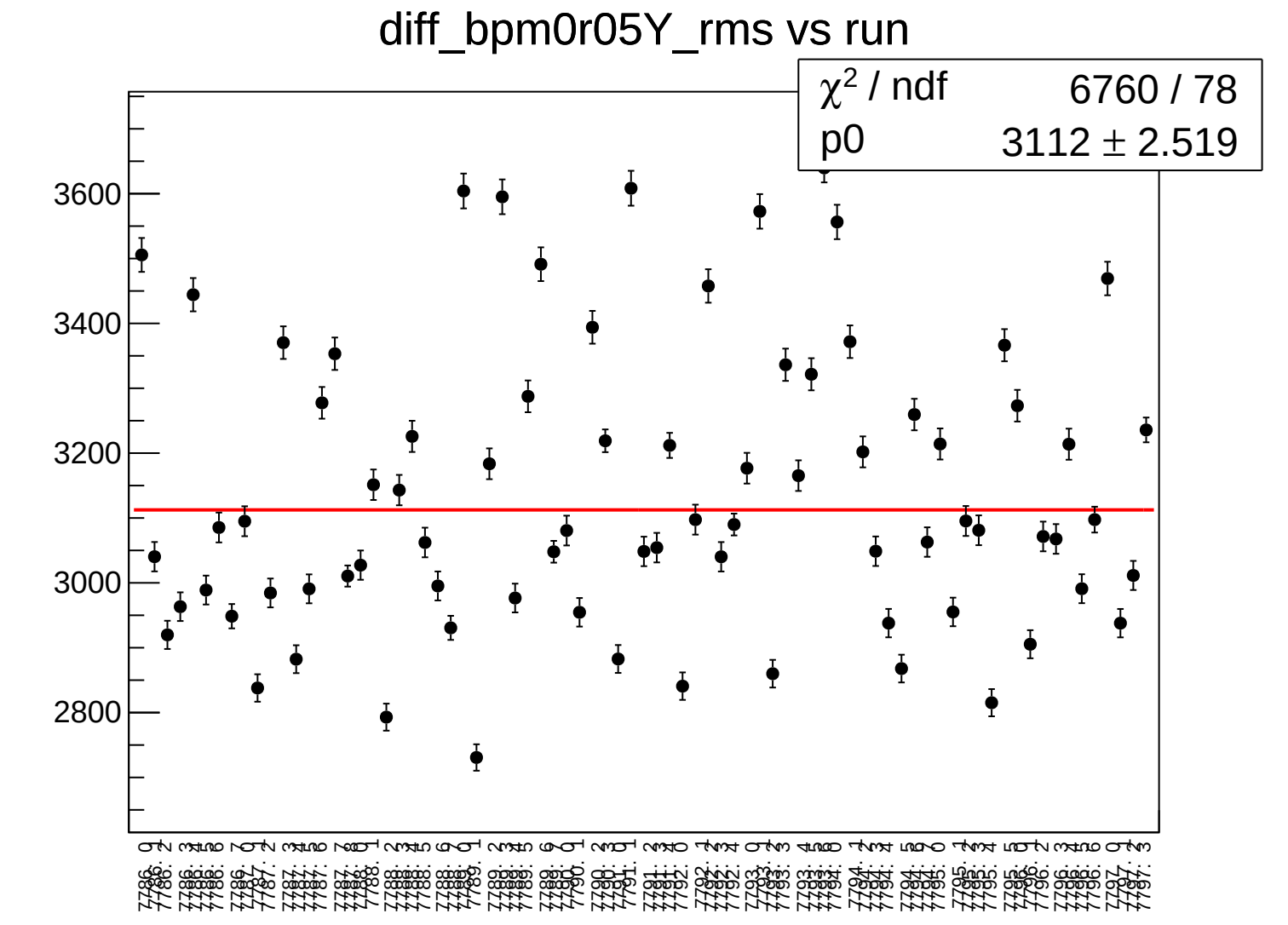

diff_bpm0r05X_mean vs run
χ² / ndf 75.84 / 78
p0 245.9 ± 69.24
2000
1000
0
−1000
−2000
pull
Entries 79
Mean 99.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

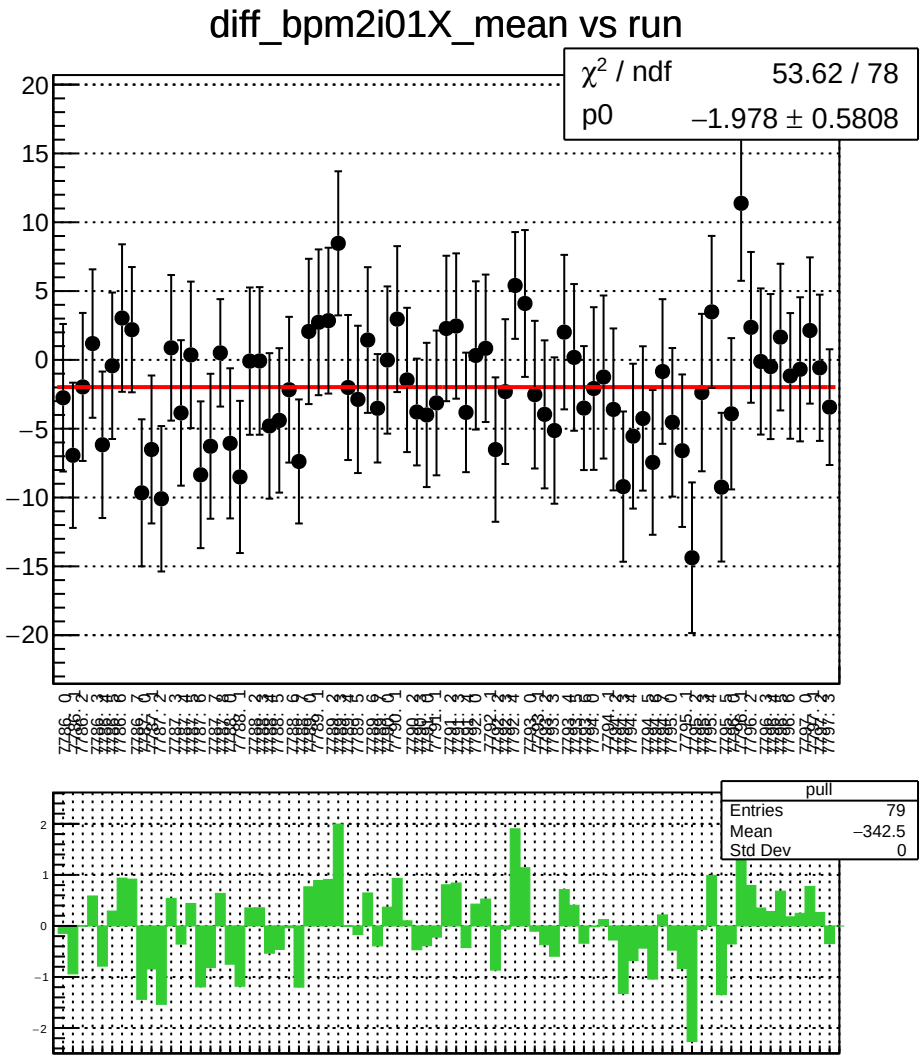

pull1D
Entries 79
Mean −0.01526
Std Dev 0.9797
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

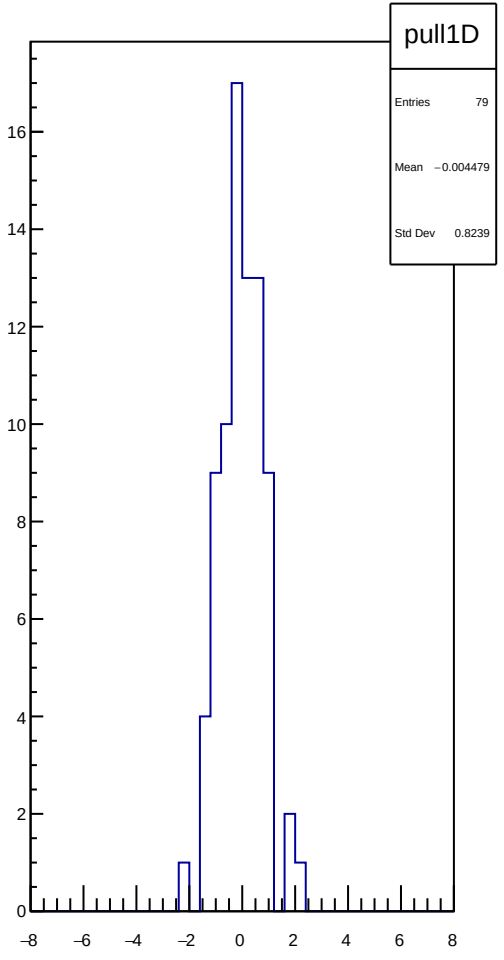

diff_bpm0r05X_rms vs run
χ^2 / ndf 8293 / 78
p0 6.047e+04 ± 48.96
70000
65000
60000
55000
50000

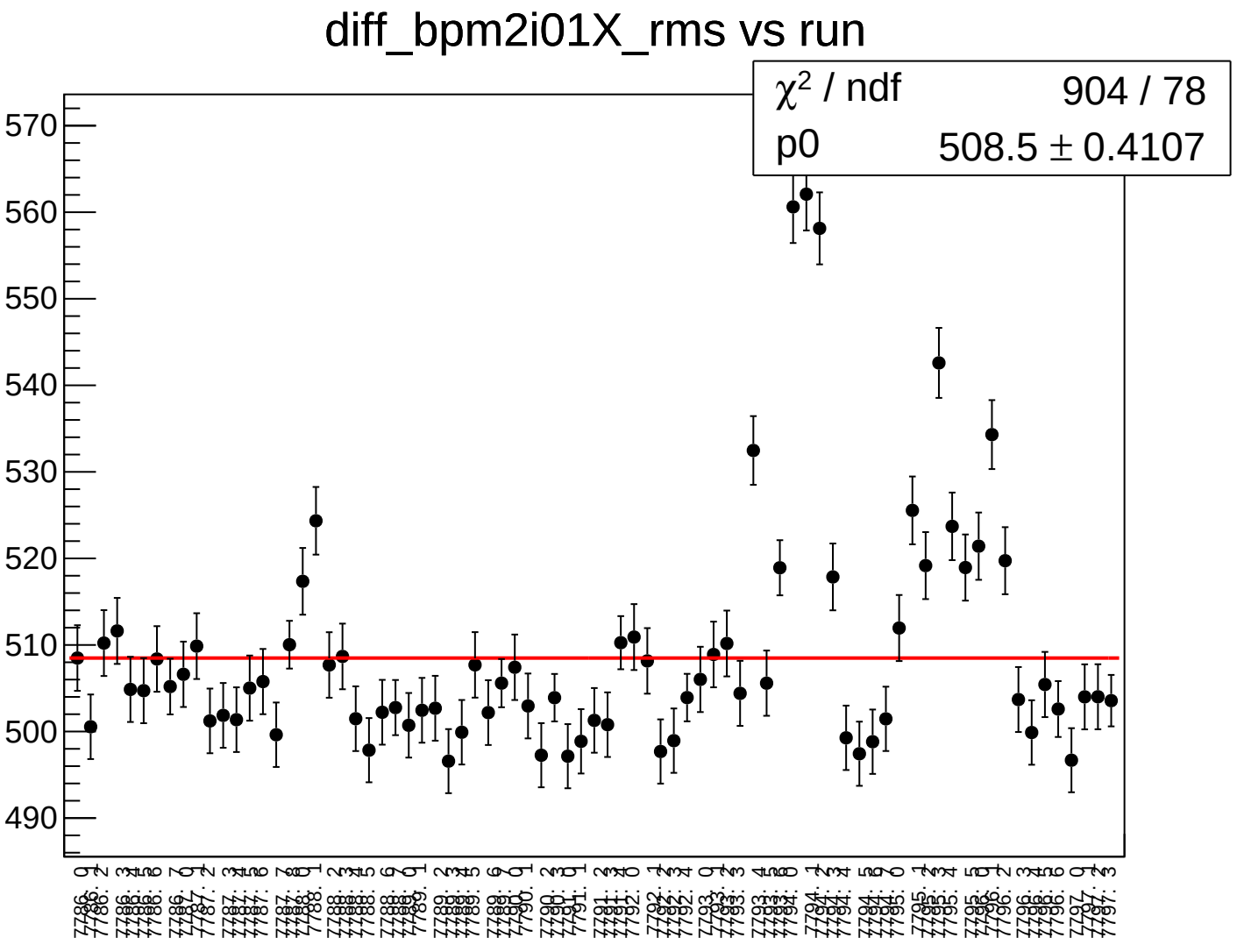

diff_bpm0r05Y_mean vs run
χ² / ndf 85.62 / 78
p0 34.54 ± 3.562
pull
Entries 79
Mean −4.902
Std Dev 0

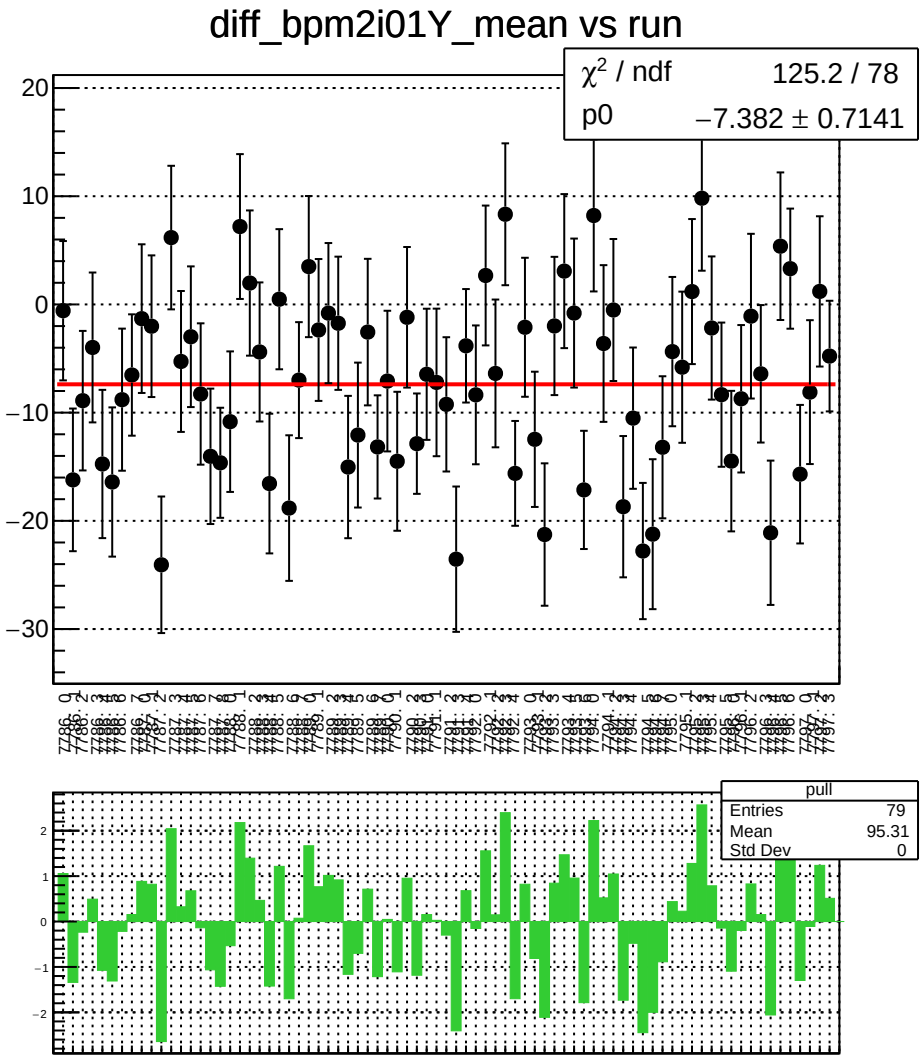

pull1D
Entries 79
Mean −0.01653
Std Dev 1.041

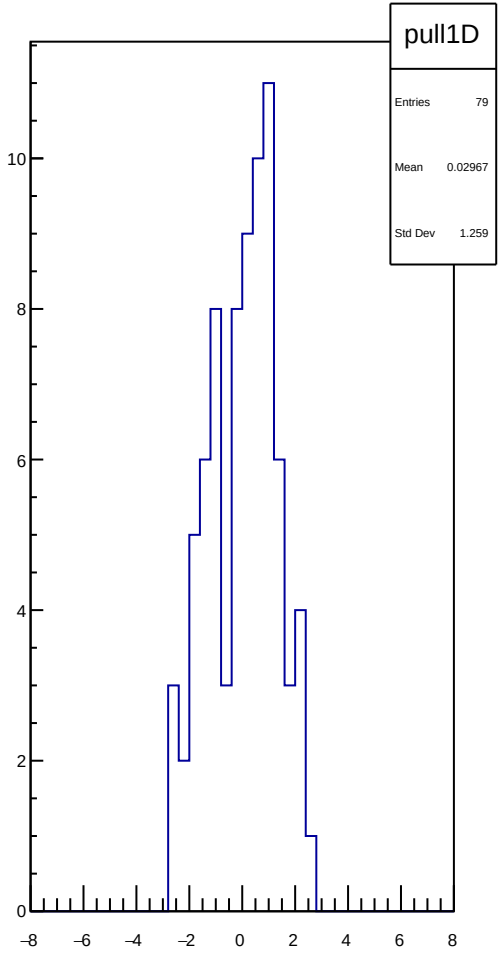

diff_bpm0r05Y_rms vs run
χ² / ndf 6760 / 78
p0 3112 ± 2.519
3600
3400
3200
3000
2800

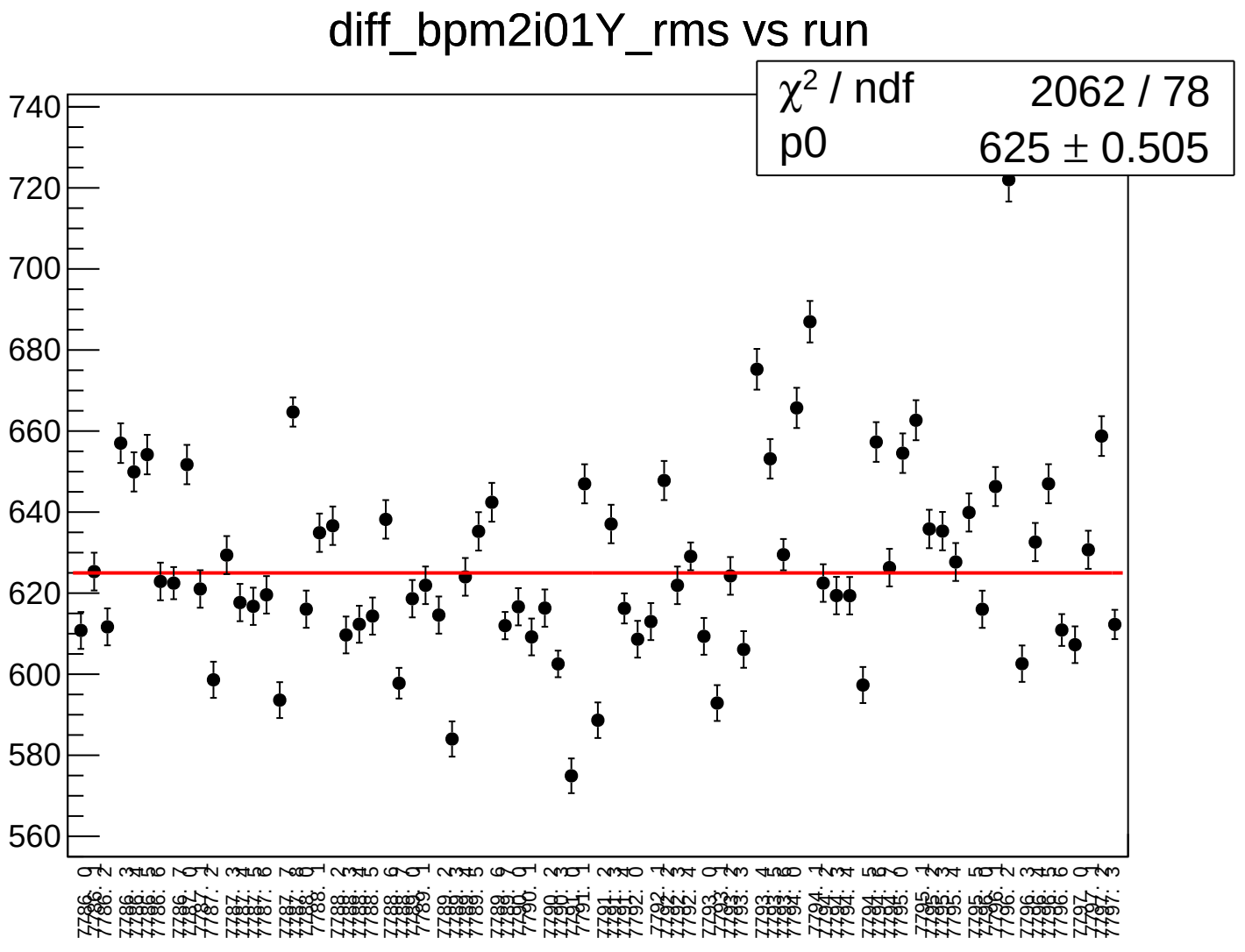

diff_bpm2i01X_mean vs run
χ² / ndf 53.62 / 78
p0 −1.978 ± 0.5808
pull
Entries 79
Mean −342.5
Std Dev 0

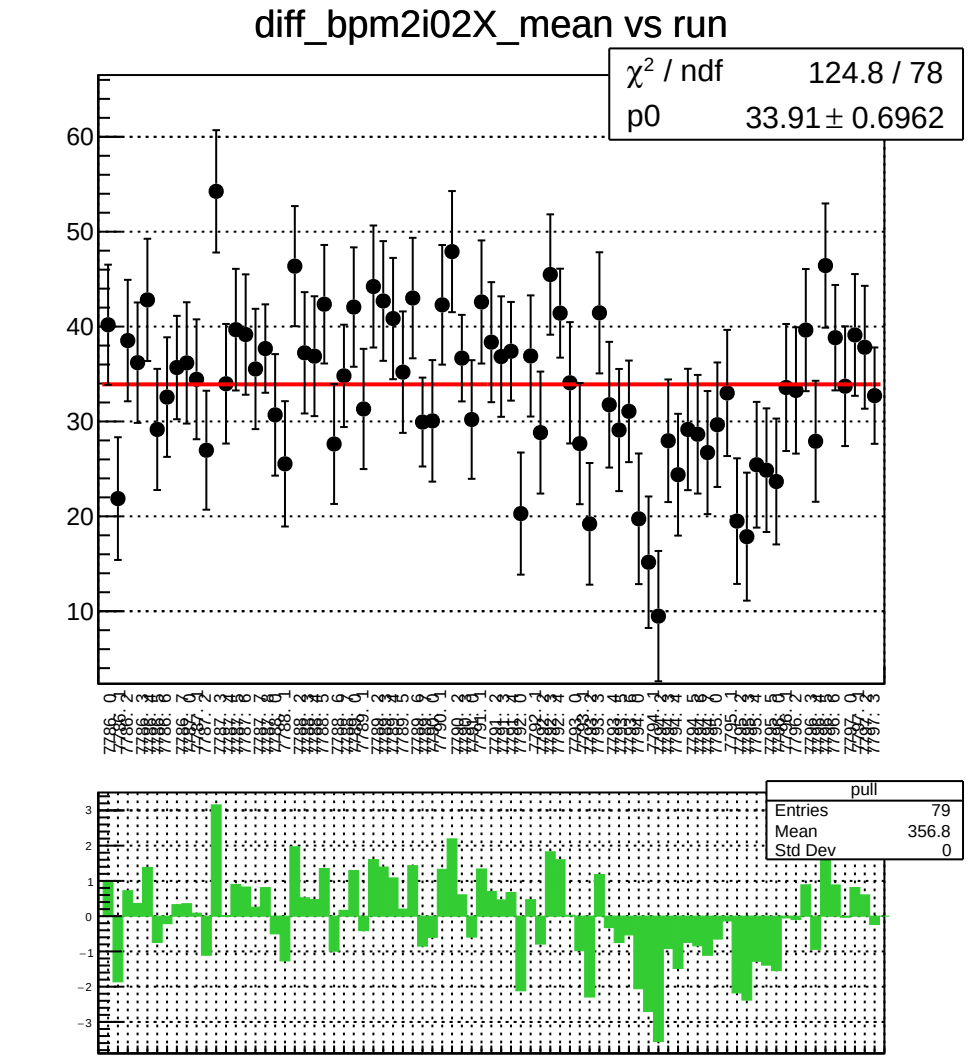

pull1D
Entries 79
Mean −0.004479
Std Dev 0.8239

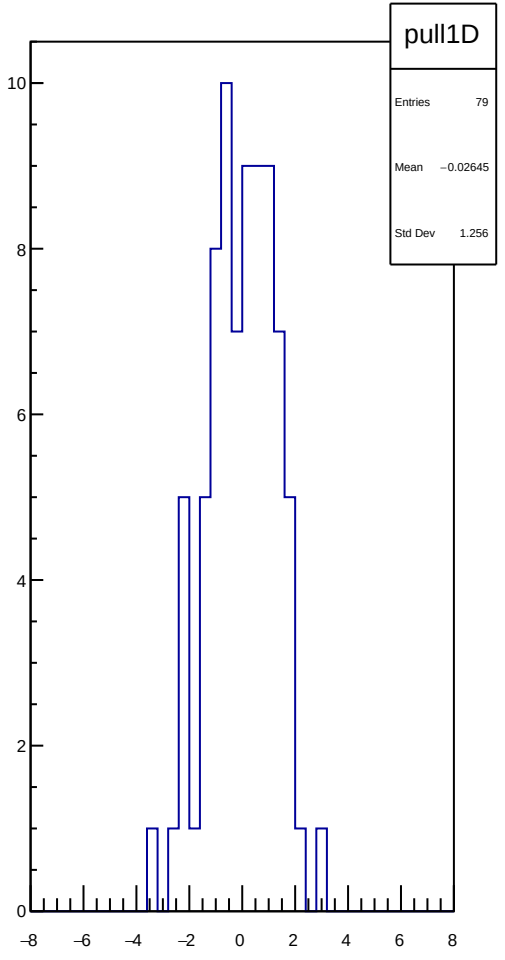

diff_bpm2i01X_rms vs run
χ² / ndf 904 / 78
p0 508.5 ± 0.4107
570
560
550
540
530
520
510
500
490

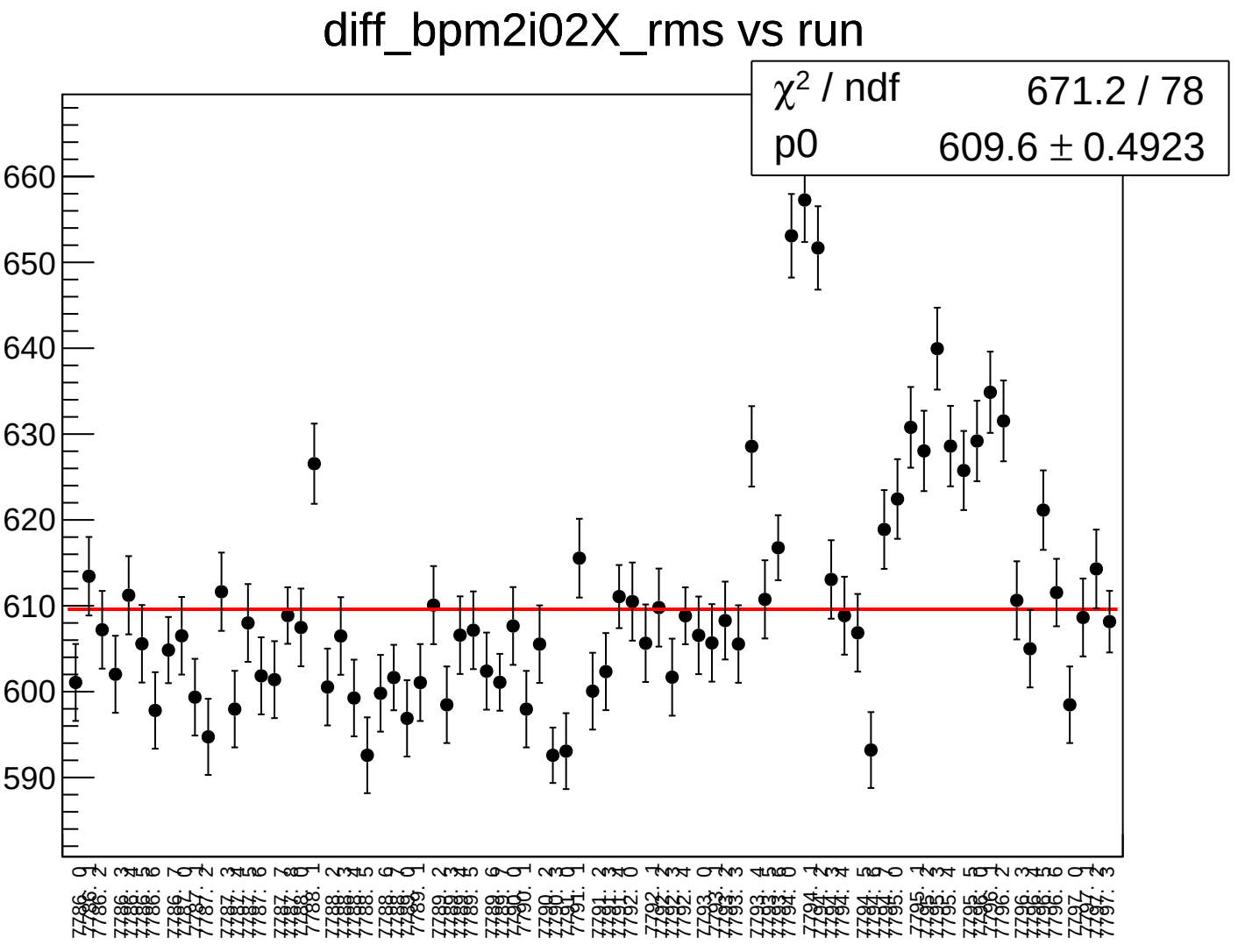

diff_bpm2i01Y_mean vs run
χ² / ndf 125.2 / 78
p0 −7.382 ± 0.7141
pull
Entries 79
Mean 95.31
Std Dev 0

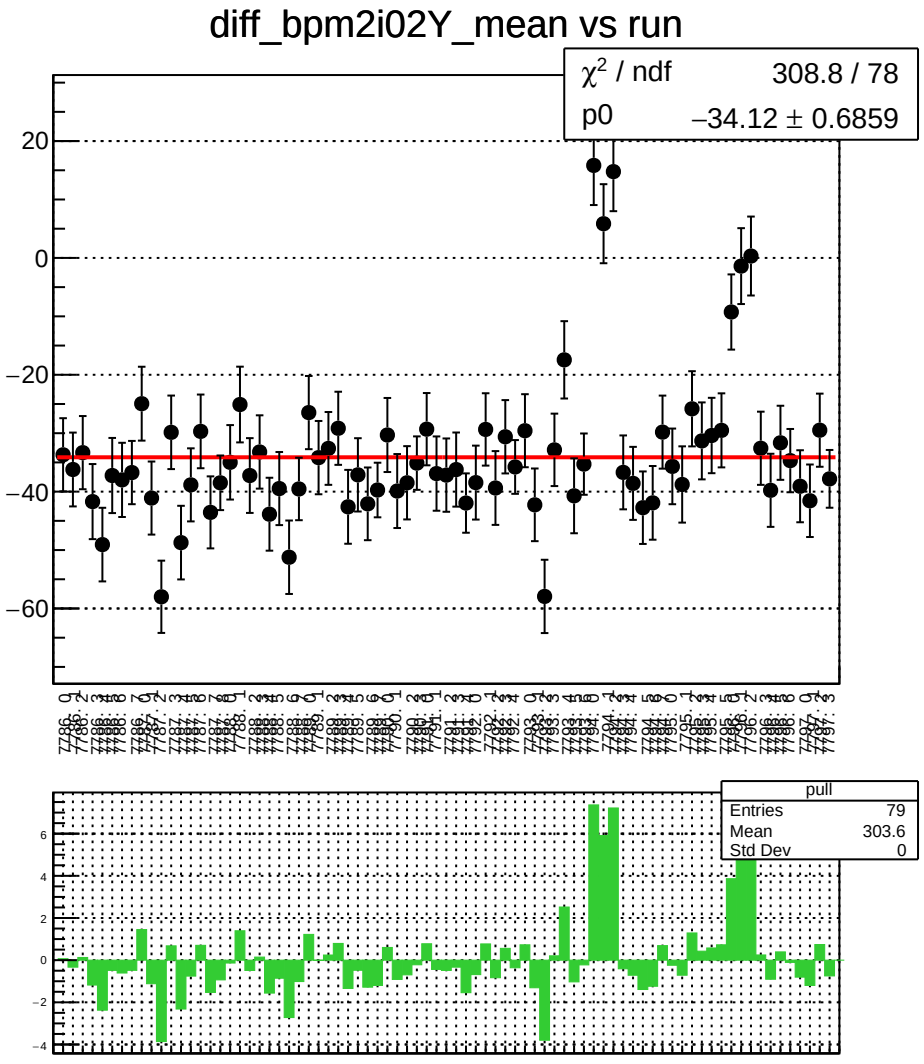

pull1D
Entries 79
Mean 0.02967
Std Dev 1.259

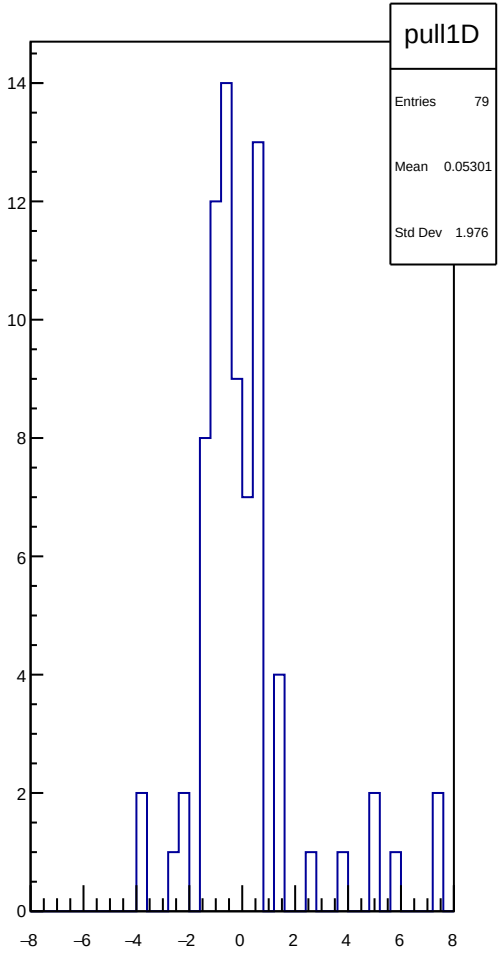

diff_bpm2i01Y_rms vs run
χ^2 / ndf 2062 / 78
p0 625 ± 0.505
740
720
700
680
660
640
620
600
580
560

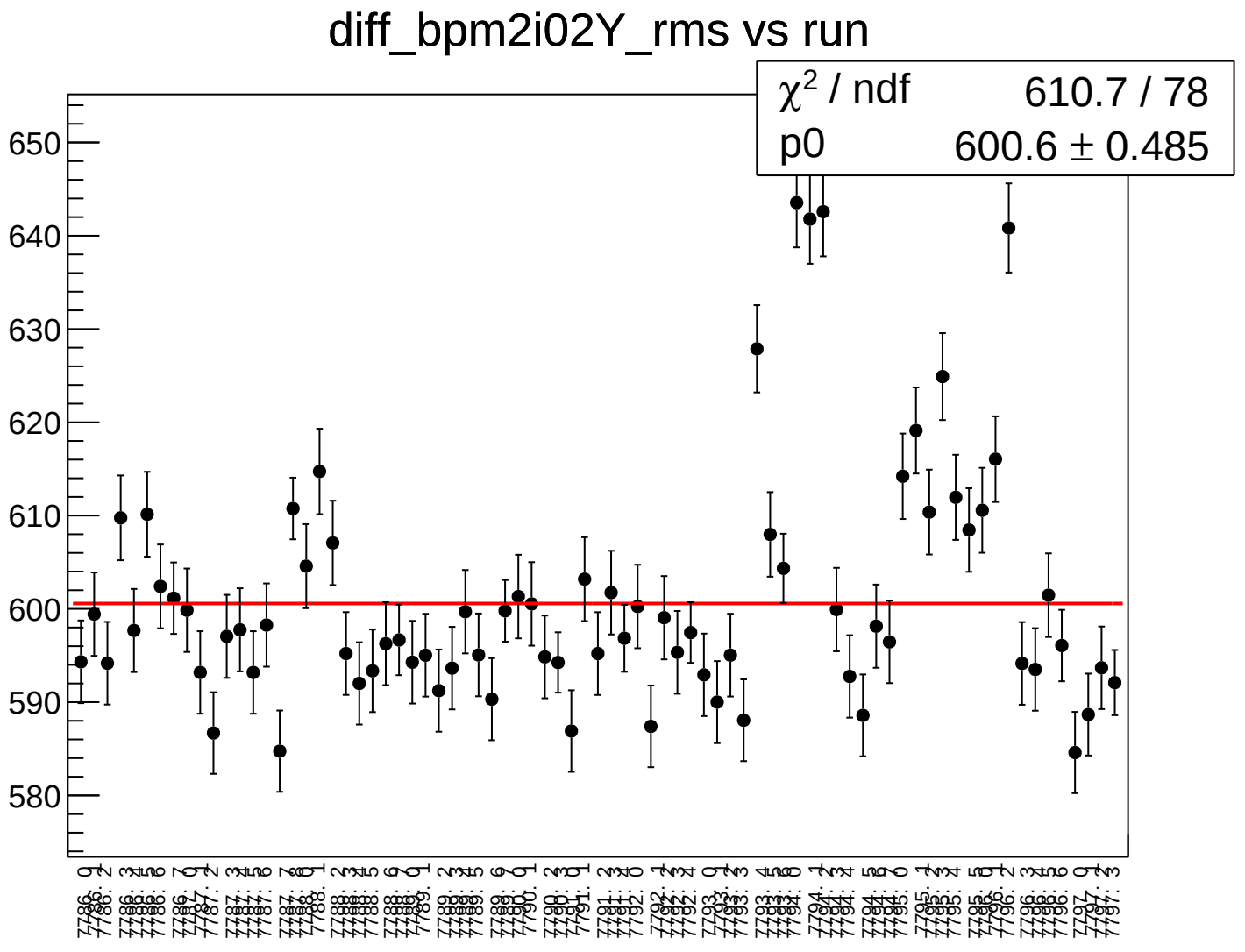

diff_bpm2i02X_mean vs run
χ² / ndf 124.8 / 78
p0 33.91 ± 0.6962
pull
Entries 79
Mean 356.8
Std Dev 0

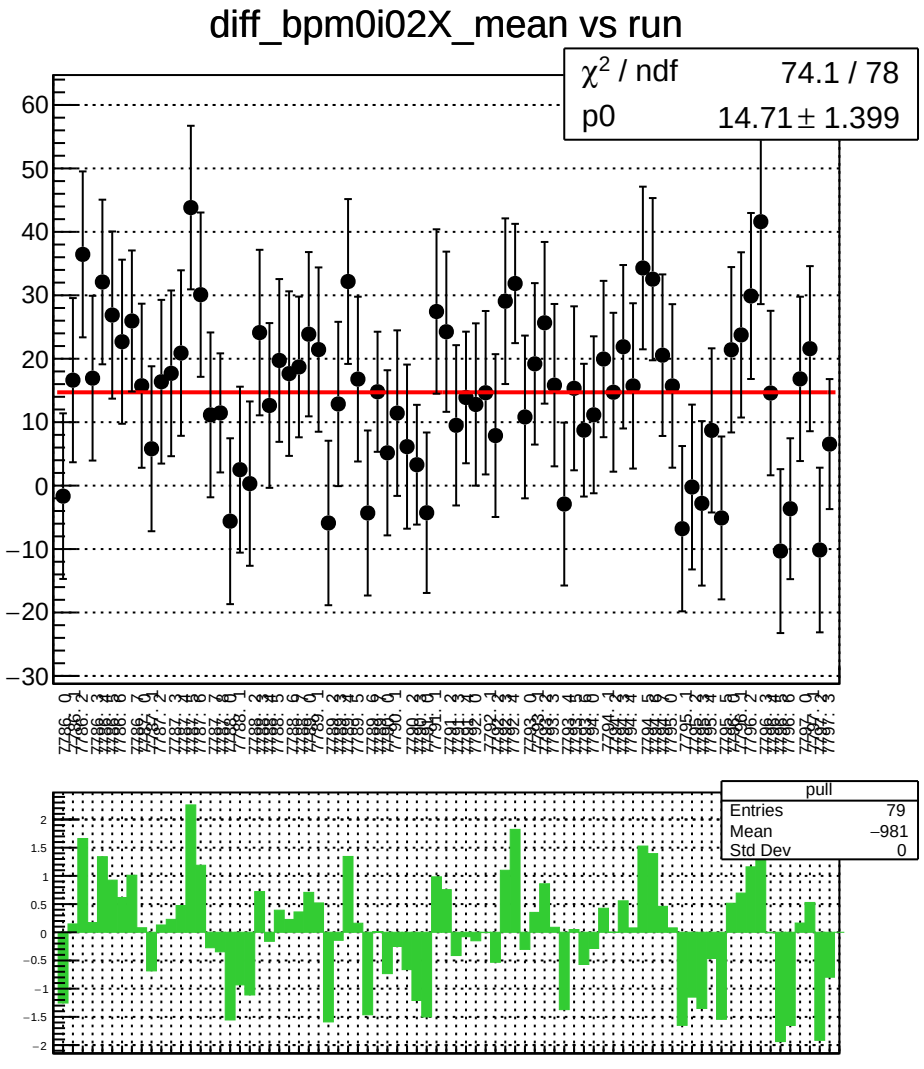

pull1D
Entries 79
Mean −0.02645
Std Dev 1.256

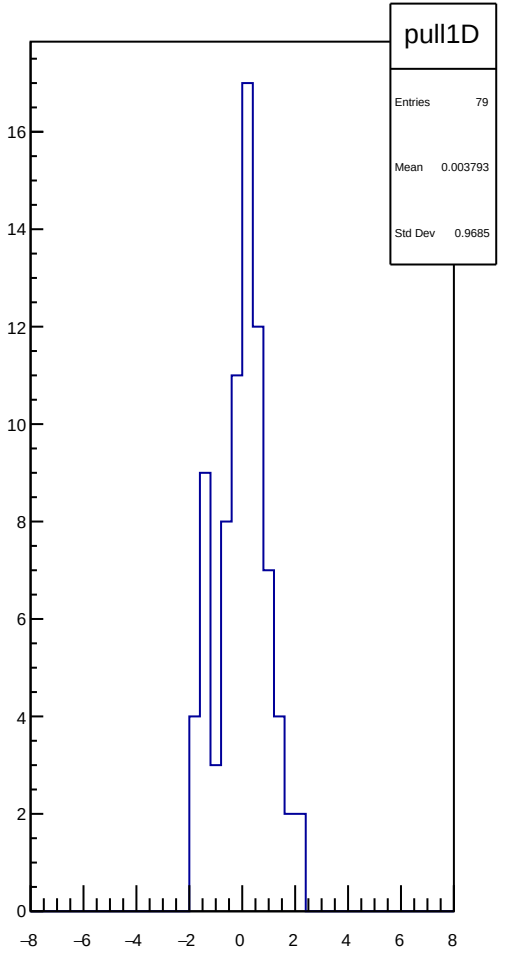

diff_bpm2i02X_rms vs run
χ² / ndf 671.2 / 78
p0 609.6 ± 0.4923
660
650
640
630
620
610
600
590

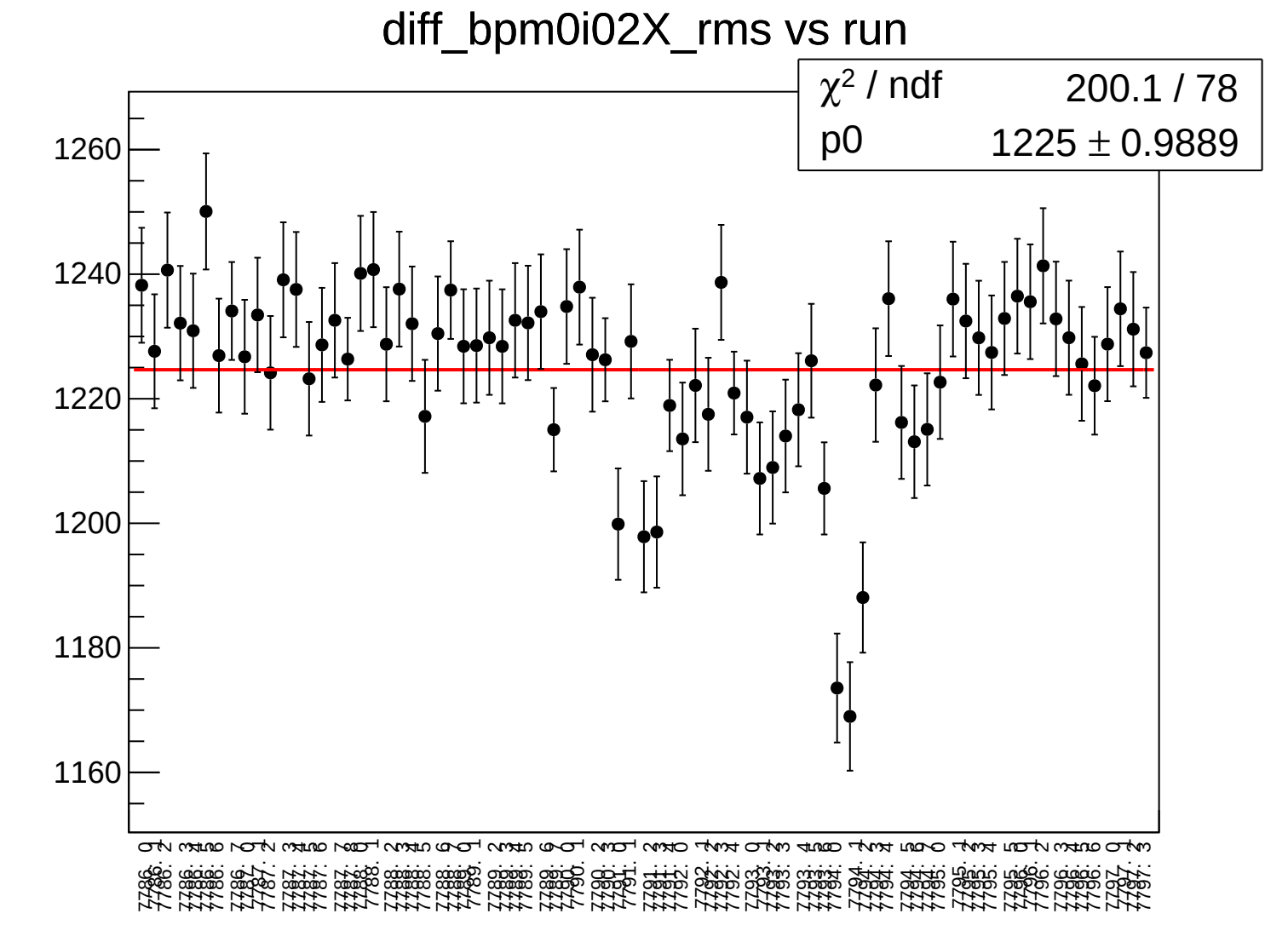

diff_bpm2i02Y_mean vs run
χ² / ndf 308.8 / 78
p0 −34.12 ± 0.6859
pull
Entries 79
Mean 303.6
Std Dev 0

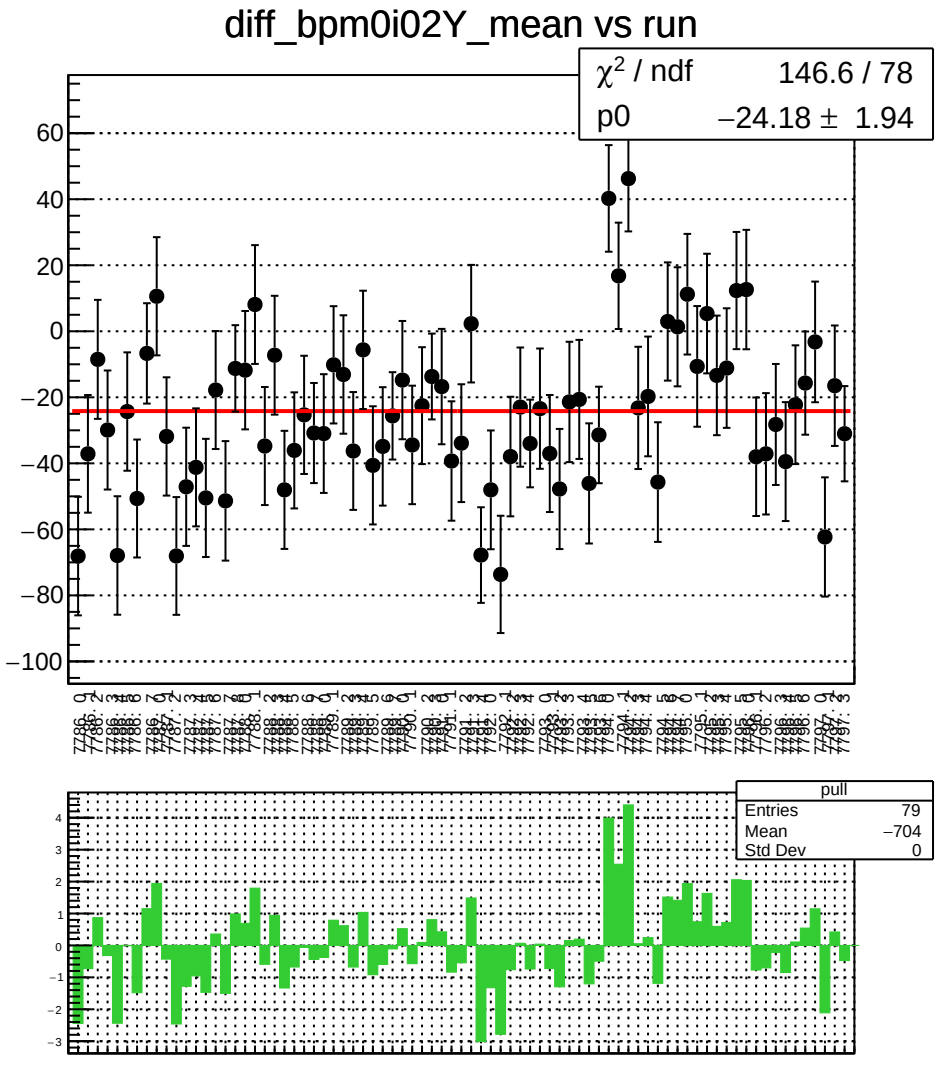

pull1D
Entries 79
Mean 0.05301
Std Dev 1.976

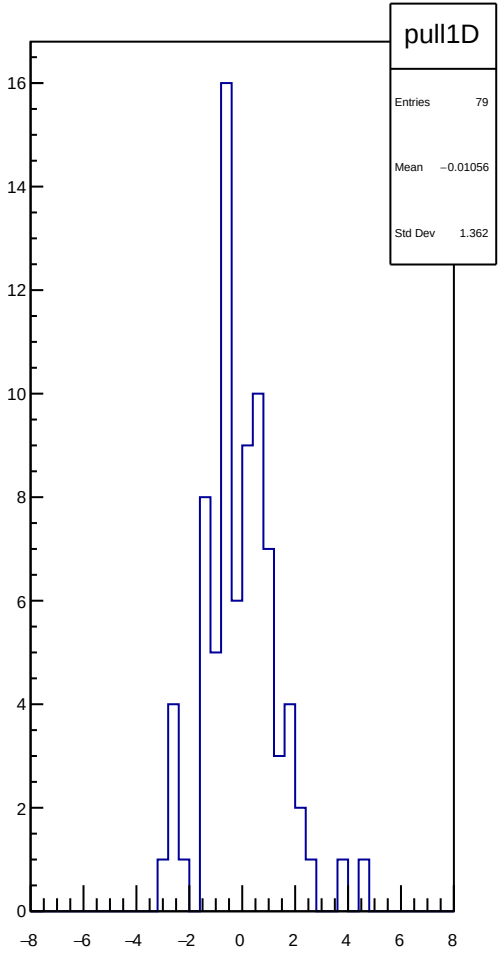

diff_bpm2i02Y_rms vs run
χ^2 / ndf 610.7 / 78
p0 600.6 ± 0.485
650
640
630
620
610
600
590
580

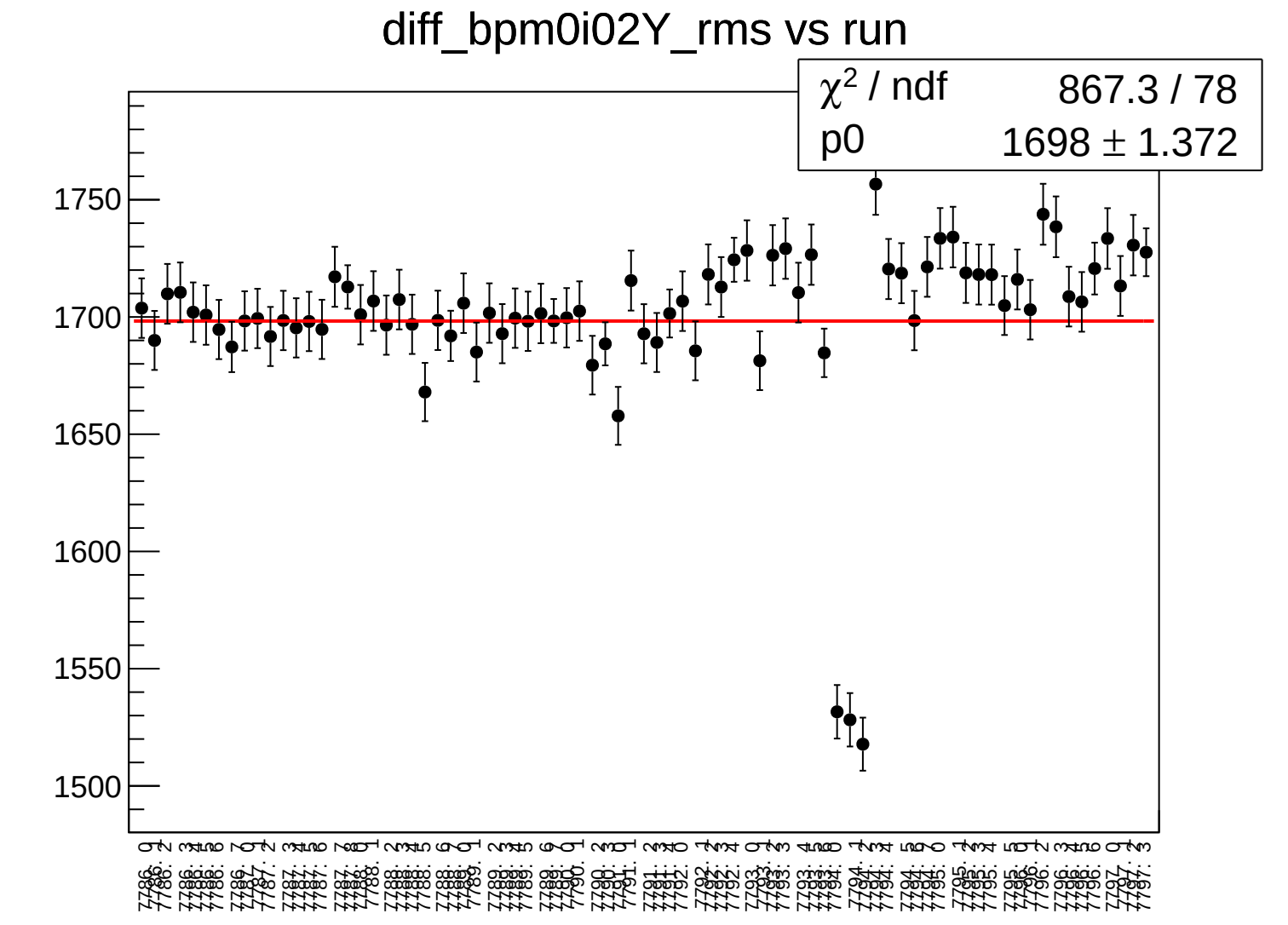

diff_bpm0i02X_mean vs run
χ^2 / ndf 74.1 / 78
p0 14.71 ± 1.399
pull
Entries 79
Mean −981
Std Dev 0

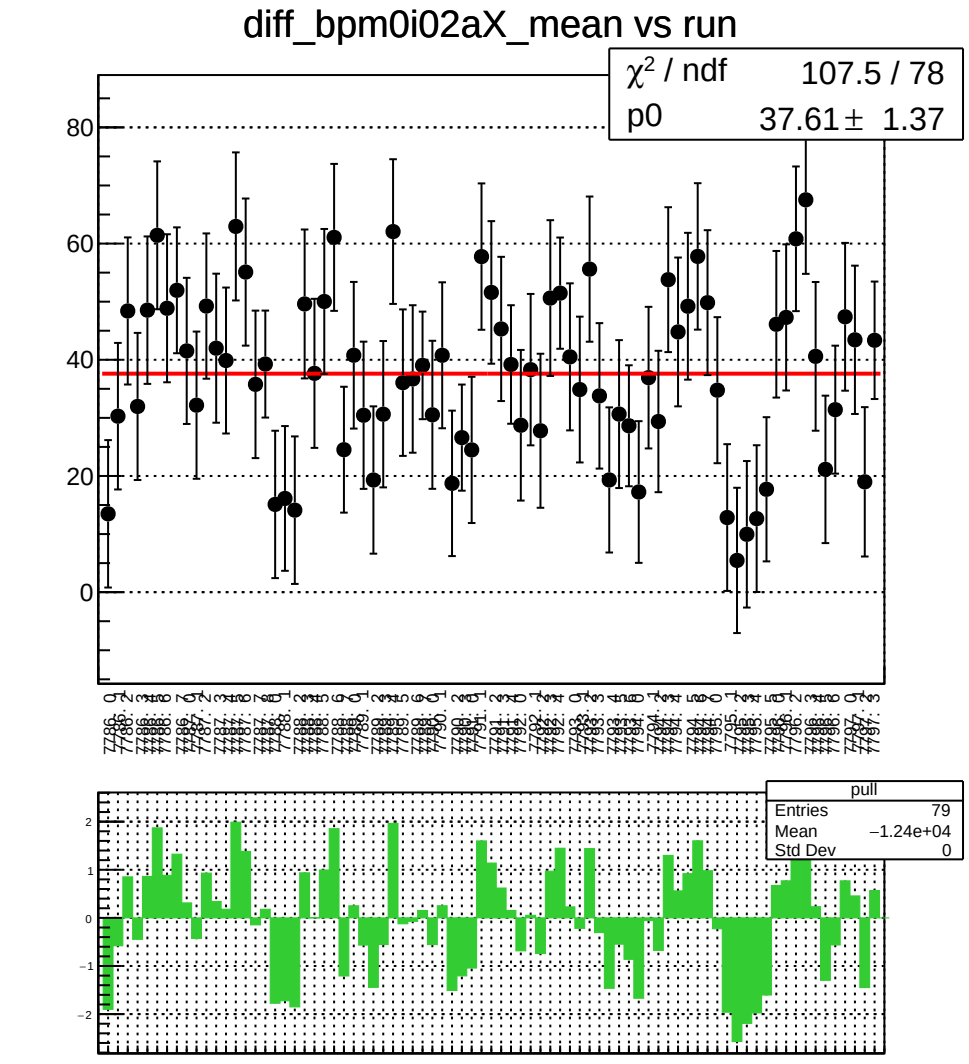

pull1D
Entries 79
Mean 0.003793
Std Dev 0.9685

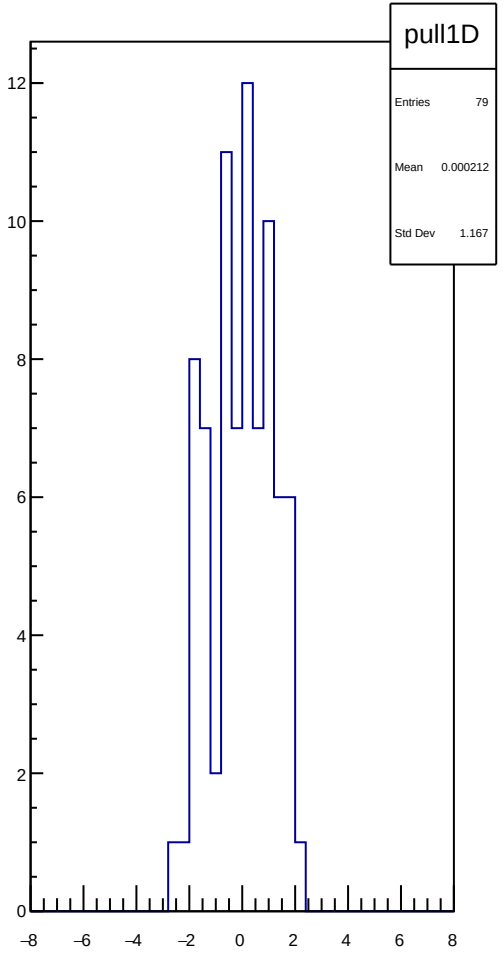

diff_bpm0i02X_rms vs run
χ² / ndf 200.1 / 78
p0 1225 ± 0.9889
1260
1240
1220
1200
1180
1160

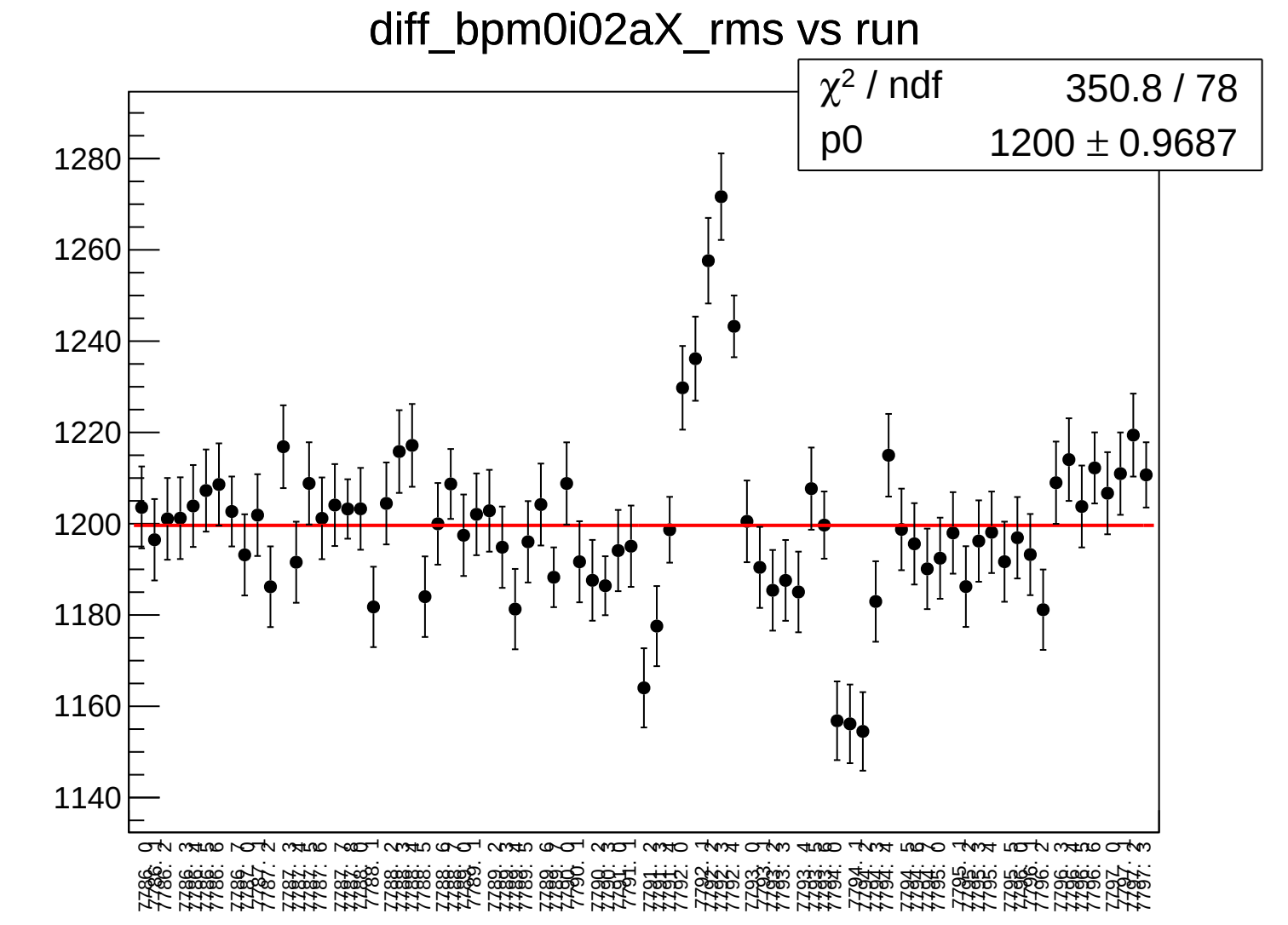

diff_bpm0i02Y_mean vs run
χ^2 / ndf 146.6 / 78
p0 −24.18 ± 1.94
pull
Entries 79
Mean −704
Std Dev 0

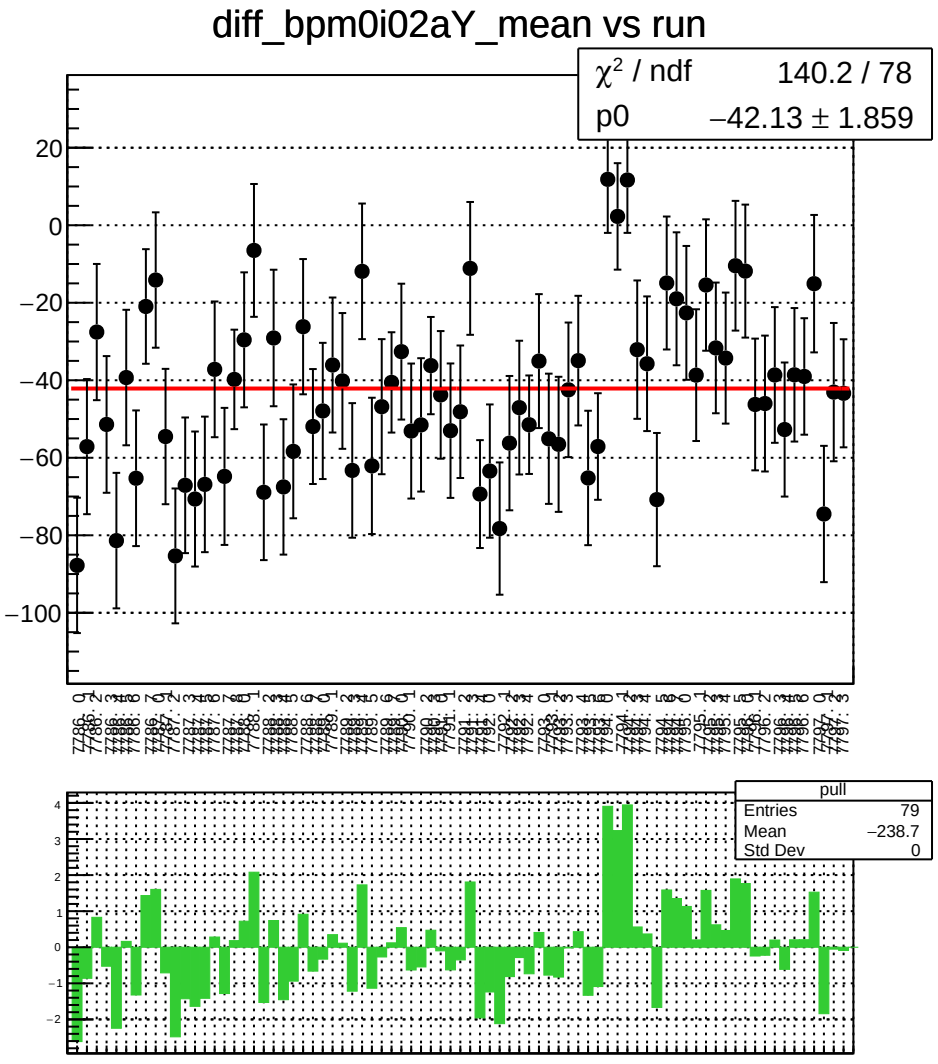

pull1D
Entries 79
Mean −0.01056
Std Dev 1.362

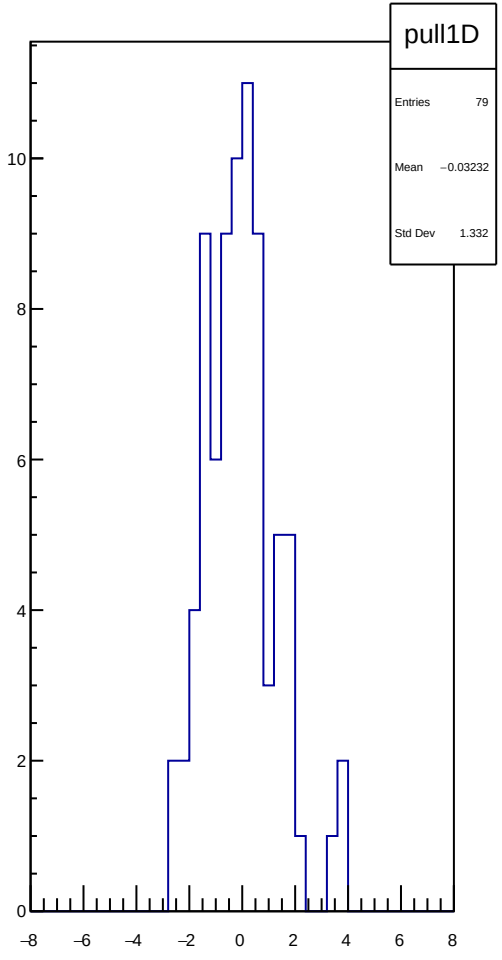

diff_bpm0i02Y_rms vs run
χ² / ndf 867.3 / 78
p0 1698 ± 1.372
1750
1700
1650
1600
1550
1500

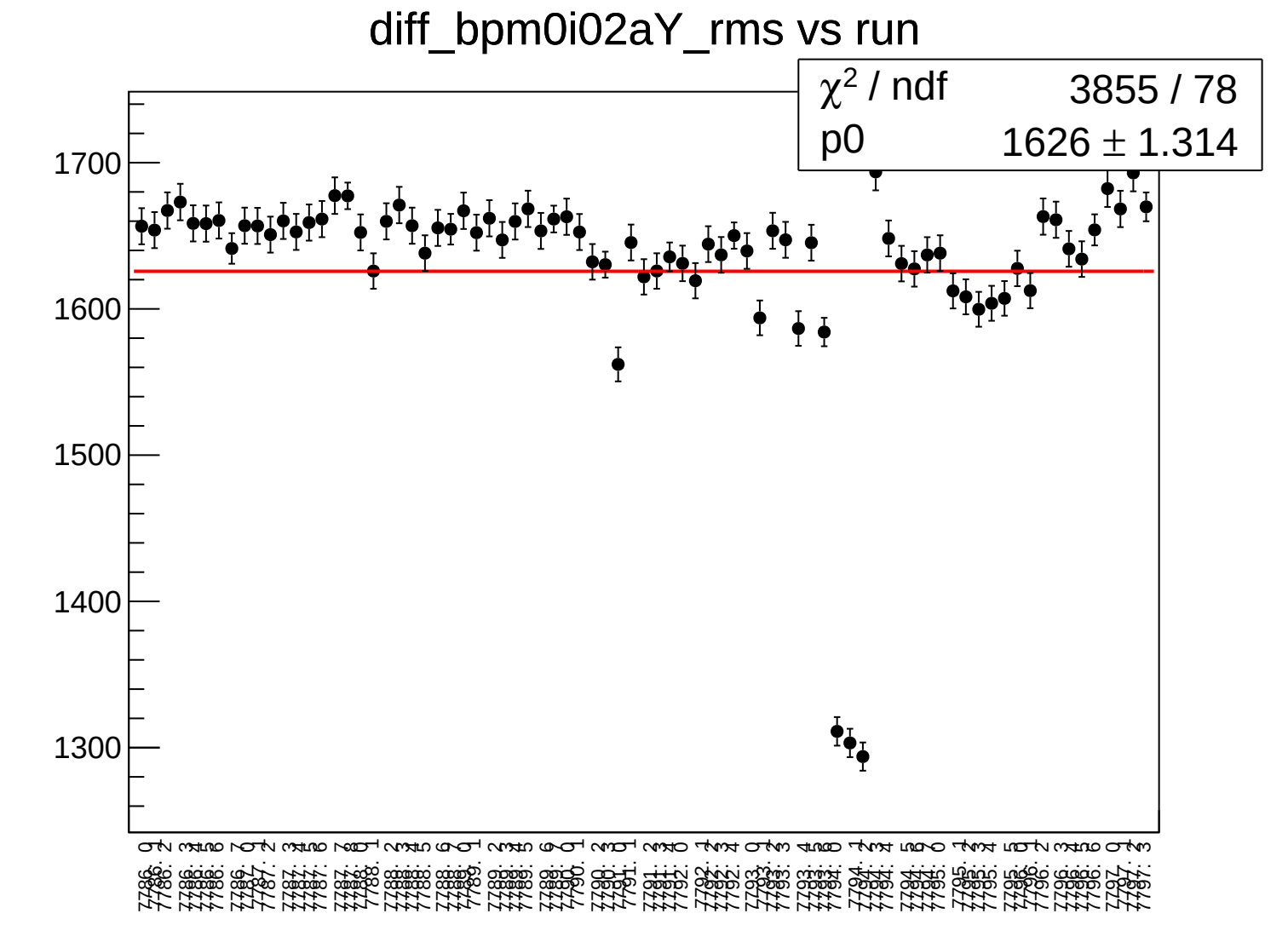

diff_bpm0i02aX_mean vs run
χ² / ndf 107.5 / 78
p0 37.61 ± 1.37
pull
Entries 79
Mean −1.24e+04
Std Dev 0

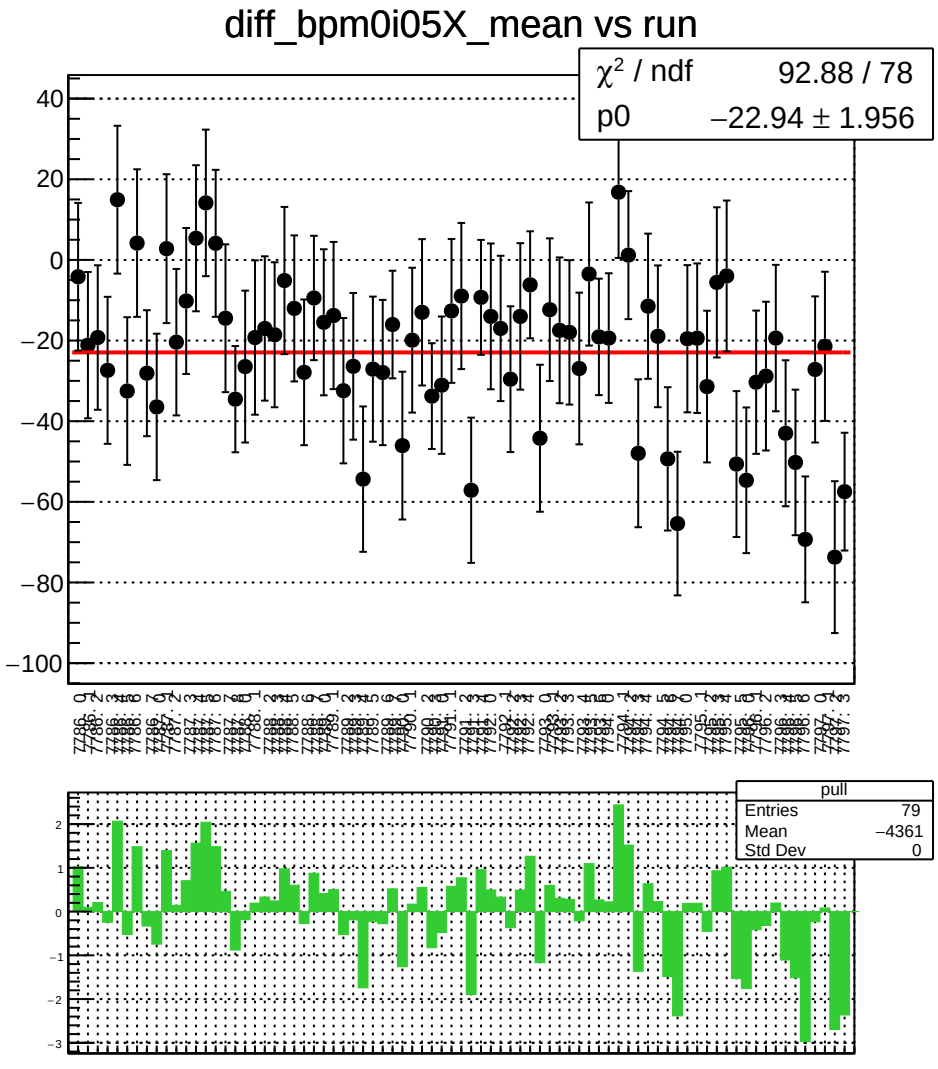

pull1D
Entries 79
Mean 0.000212
Std Dev 1.167

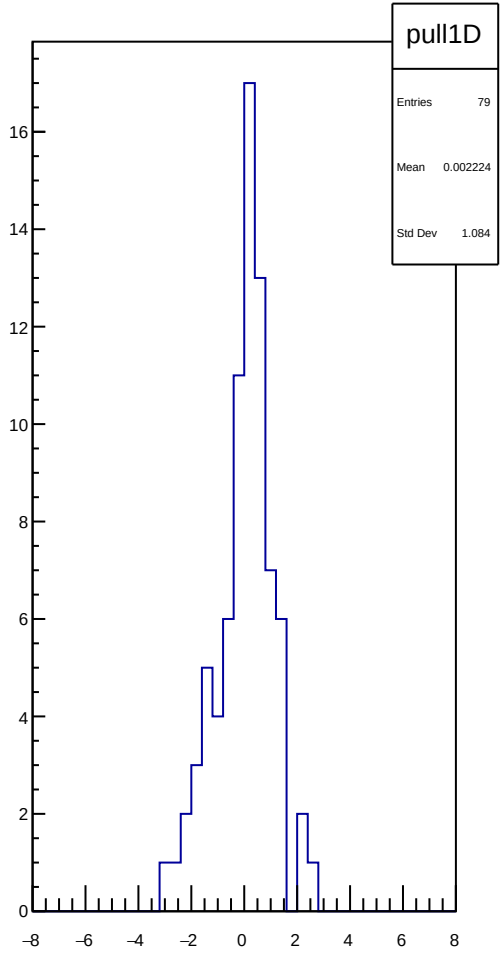

diff_bpm0i02aX_rms vs run
χ² / ndf 350.8 / 78
p0 1200 ± 0.9687
1280
1260
1240
1220
1200
1180
1160
1140

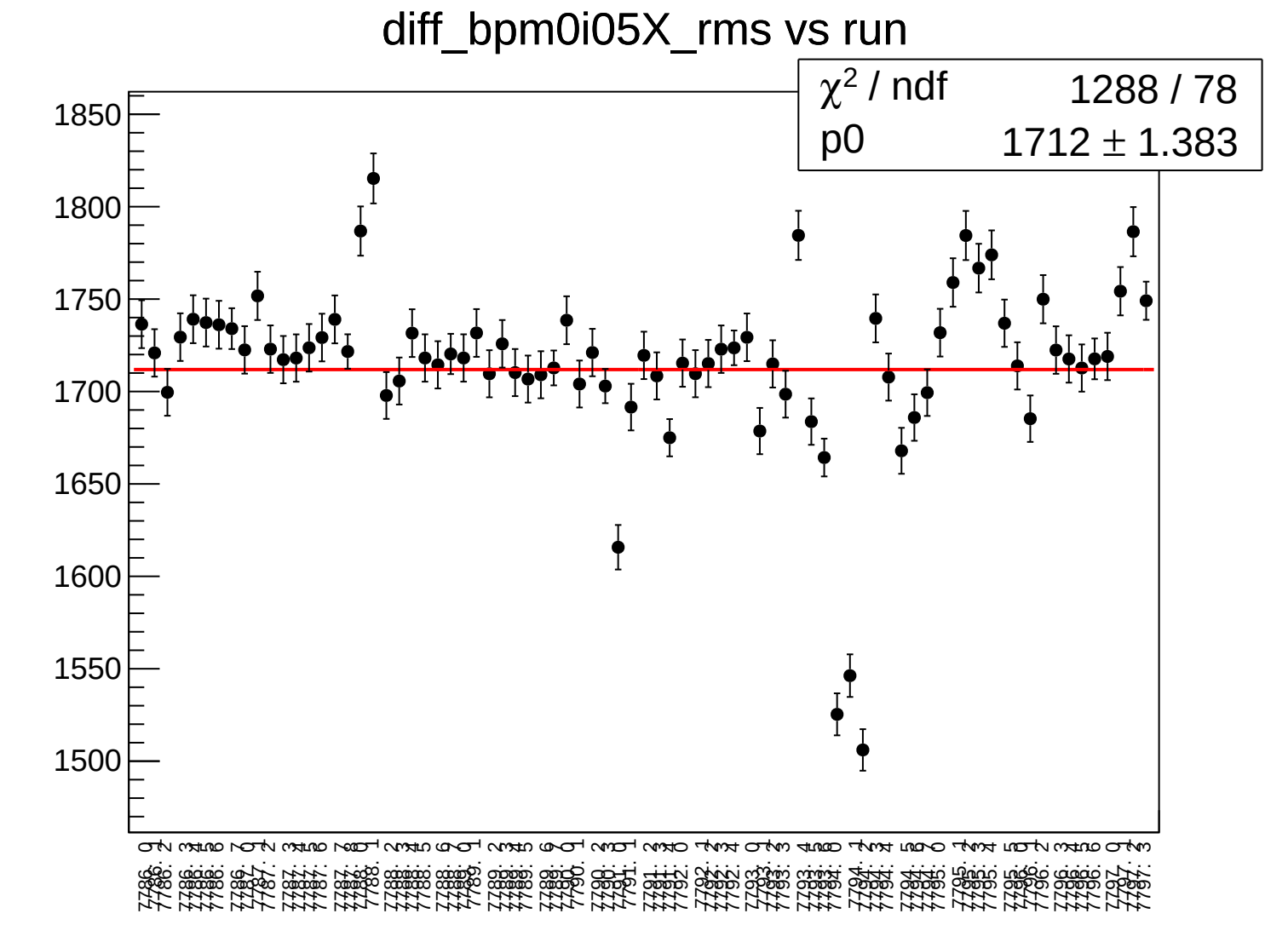

diff_bpm0i02aY_mean vs run
χ² / ndf 140.2 / 78
p0 −42.13 ± 1.859
20
0
−20
−40
−60
−80
−100
pull
Entries 79
Mean −238.7
Std Dev 0
4
3
2
1
0
−1
−2

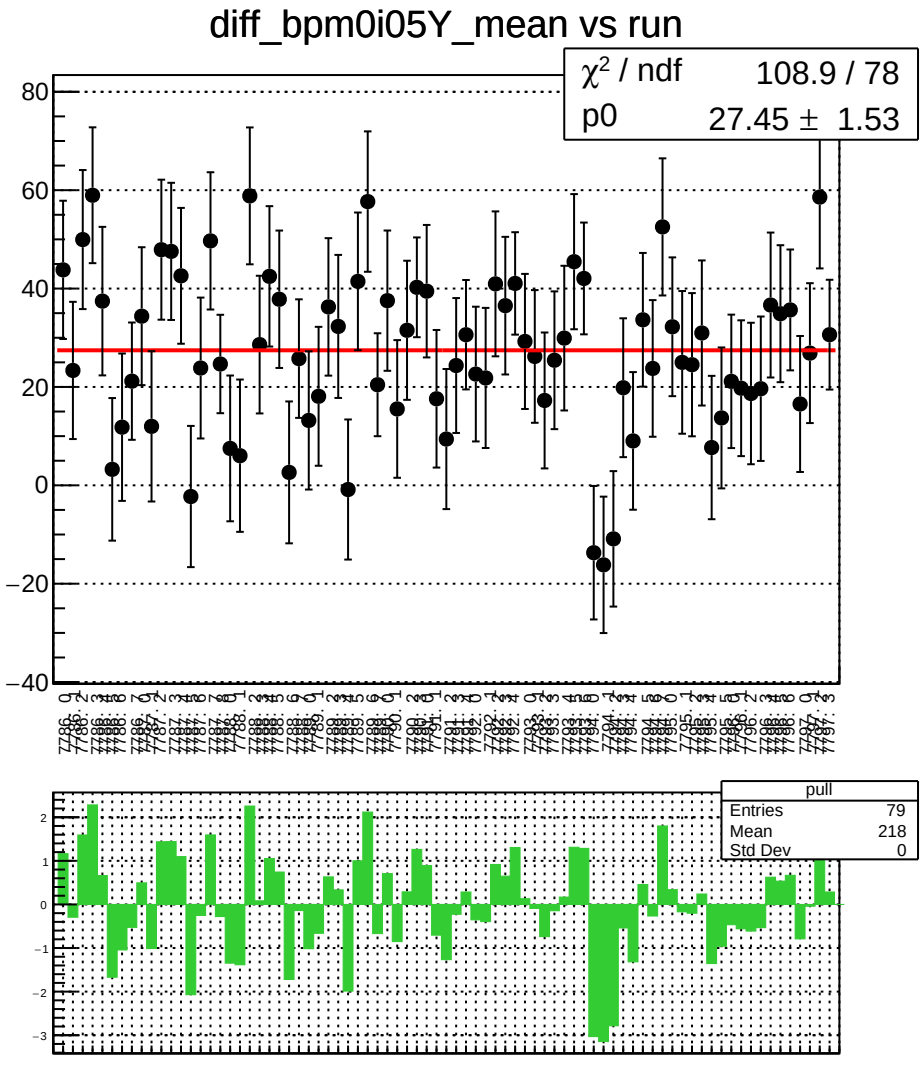

pull1D
Entries 79
Mean −0.03232
Std Dev 1.332
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

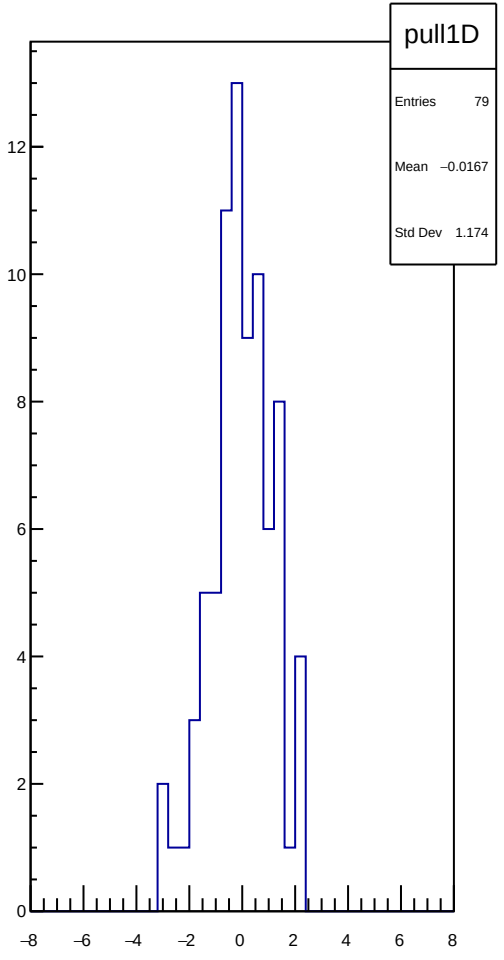

diff_bpm0i02aY_rms vs run
χ² / ndf 3855 / 78
p0 1626 ± 1.314
1700
1600
1500
1400
1300

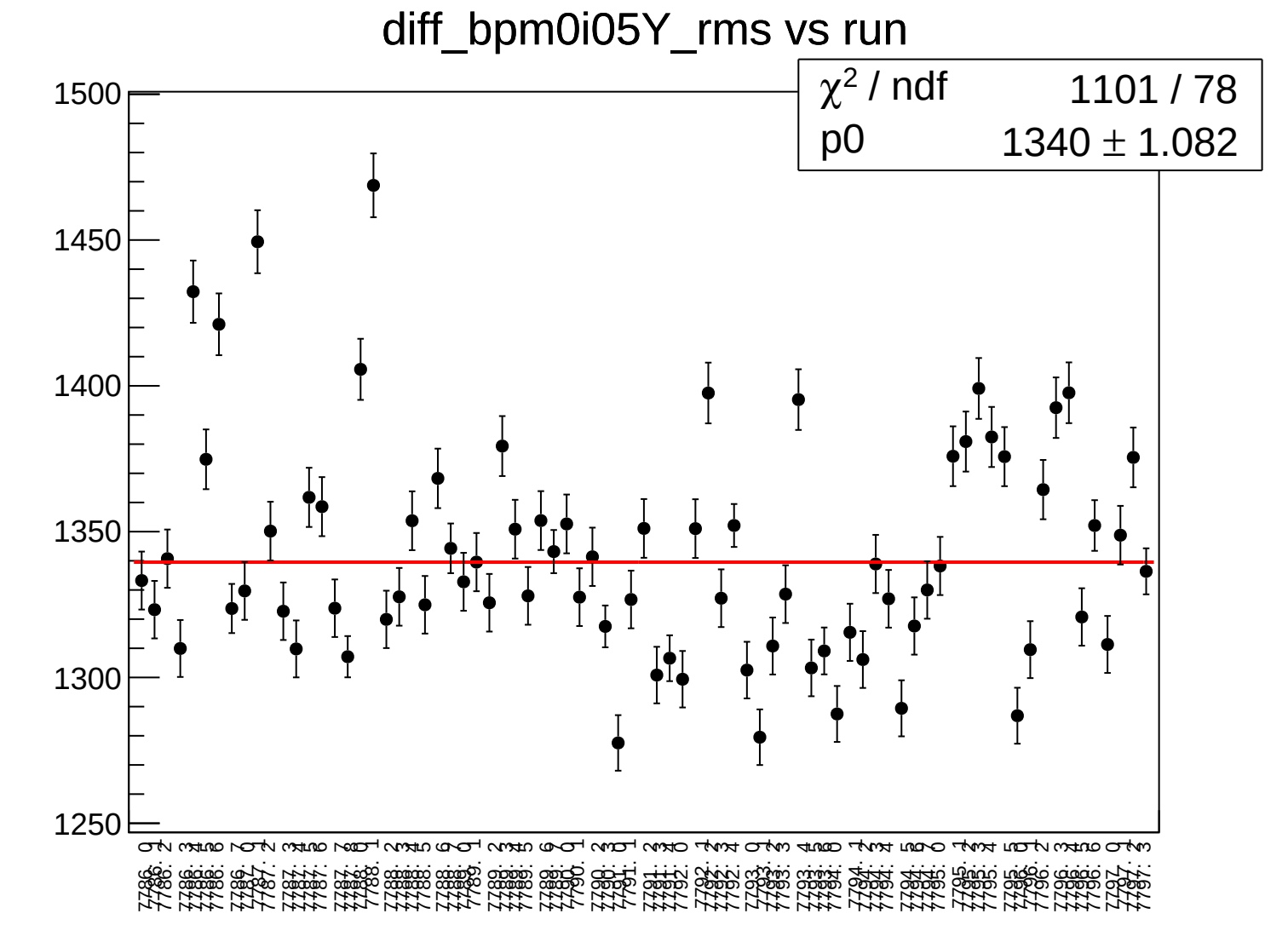

diff_bpm0i05X_mean vs run
χ² / ndf 92.88 / 78
p0 −22.94 ± 1.956
pull
Entries 79
Mean −4361
Std Dev 0

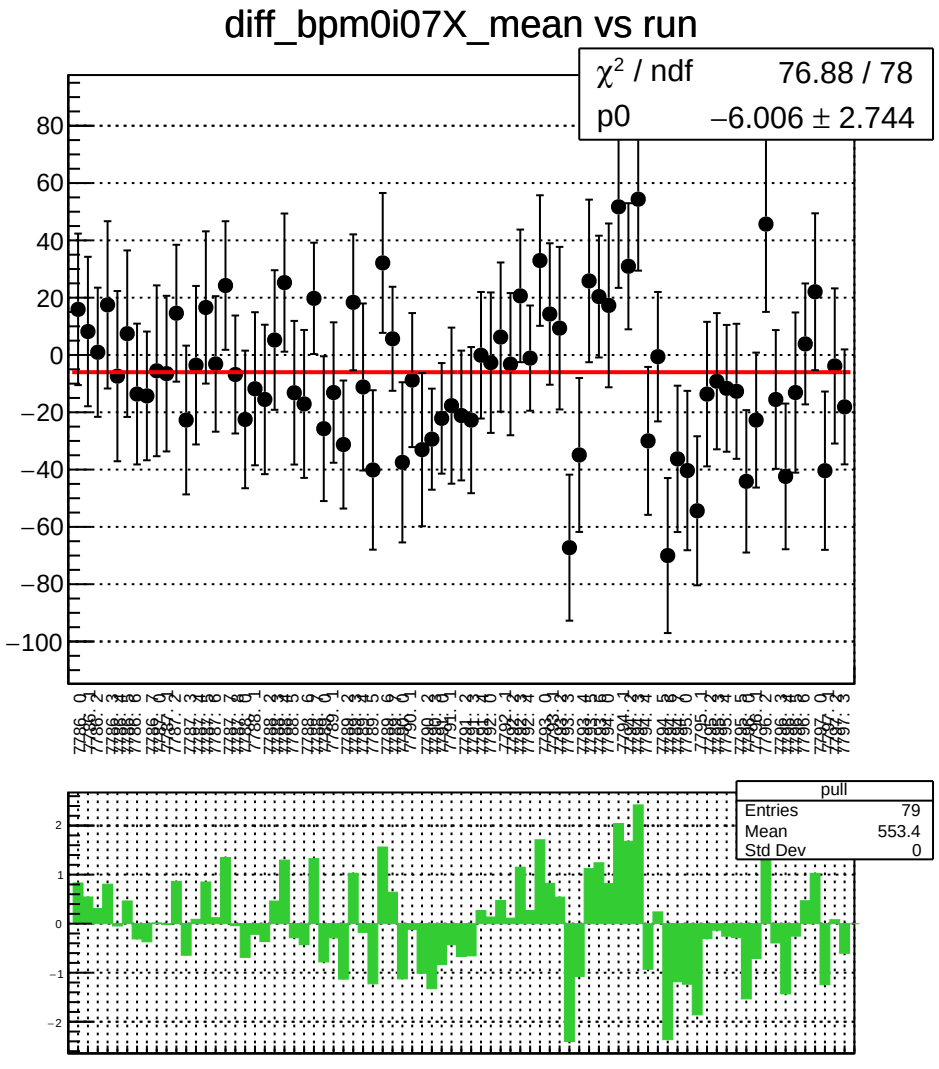

pull1D
Entries 79
Mean 0.002224
Std Dev 1.084

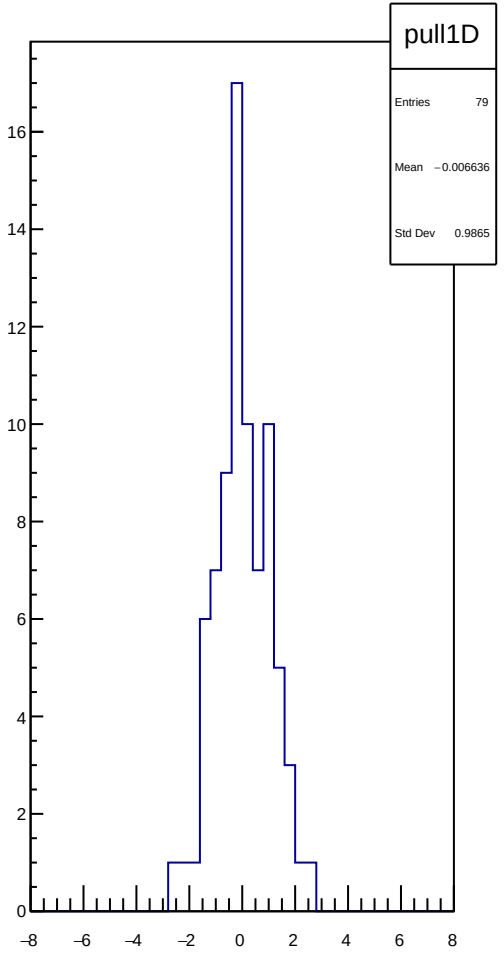

diff_bpm0i05X_rms vs run
χ² / ndf 1288 / 78
p0 1712 ± 1.383
1850
1800
1750
1700
1650
1600
1550
1500

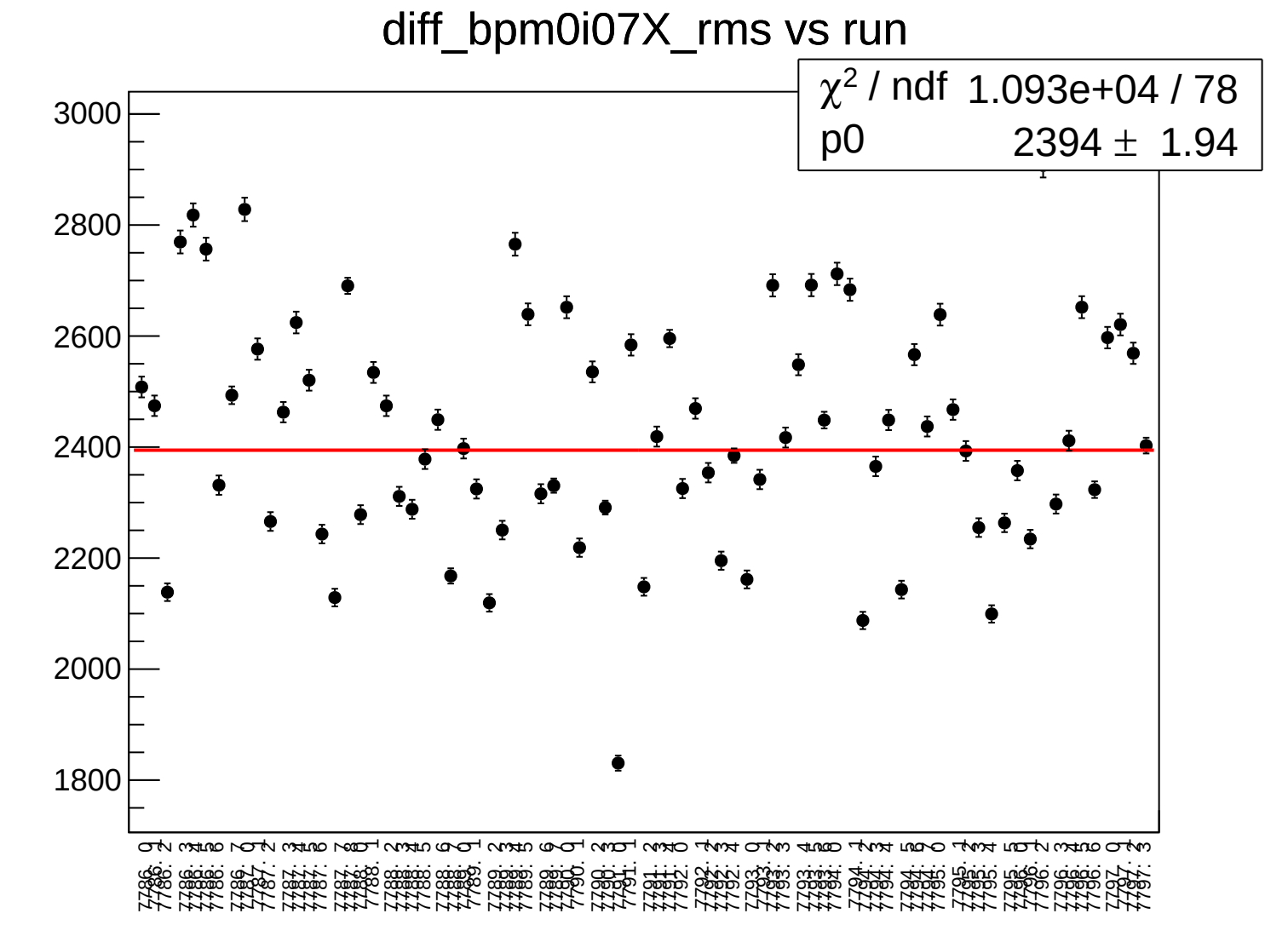

diff_bpm0i05Y_mean vs run
χ² / ndf 108.9 / 78
p0 27.45 ± 1.53
pull
Entries 79
Mean 218
Std Dev 0

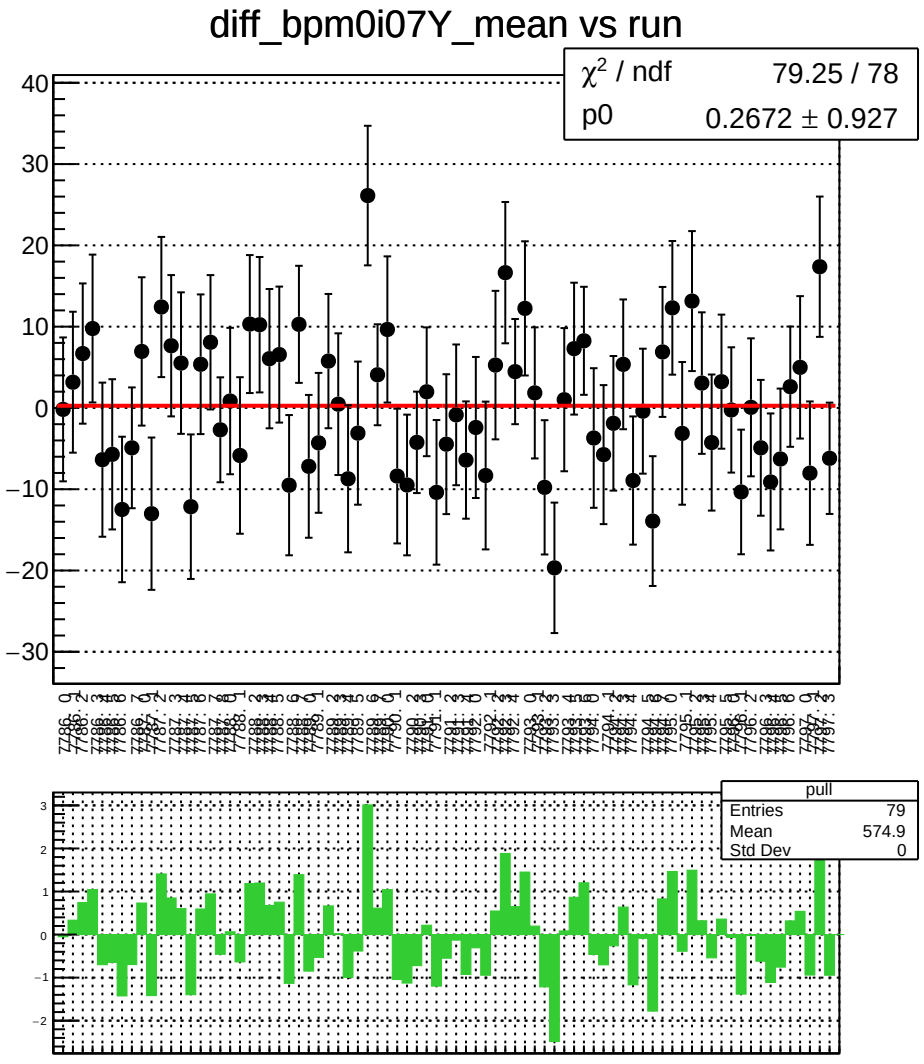

pull1D
Entries 79
Mean −0.0167
Std Dev 1.174

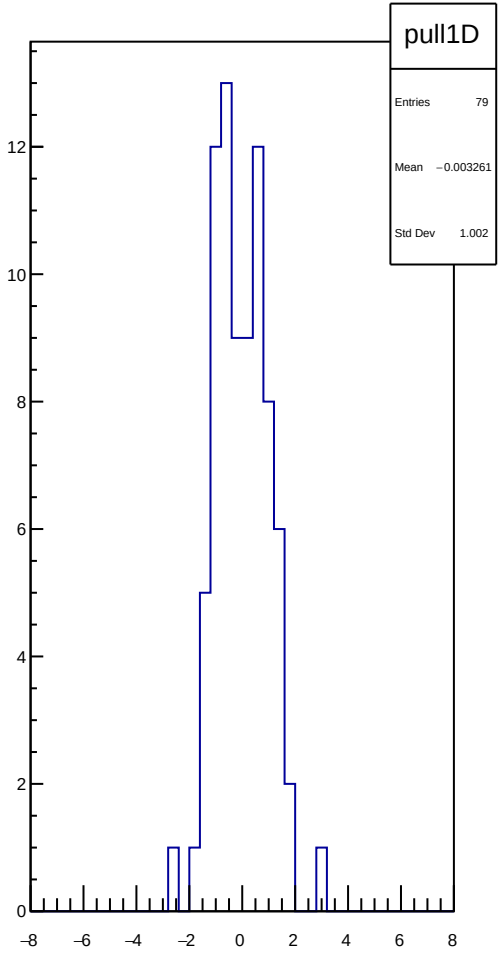

diff_bpm0i05Y_rms vs run
χ² / ndf 1101 / 78
p0 1340 ± 1.082
1500
1450
1400
1350
1300
1250

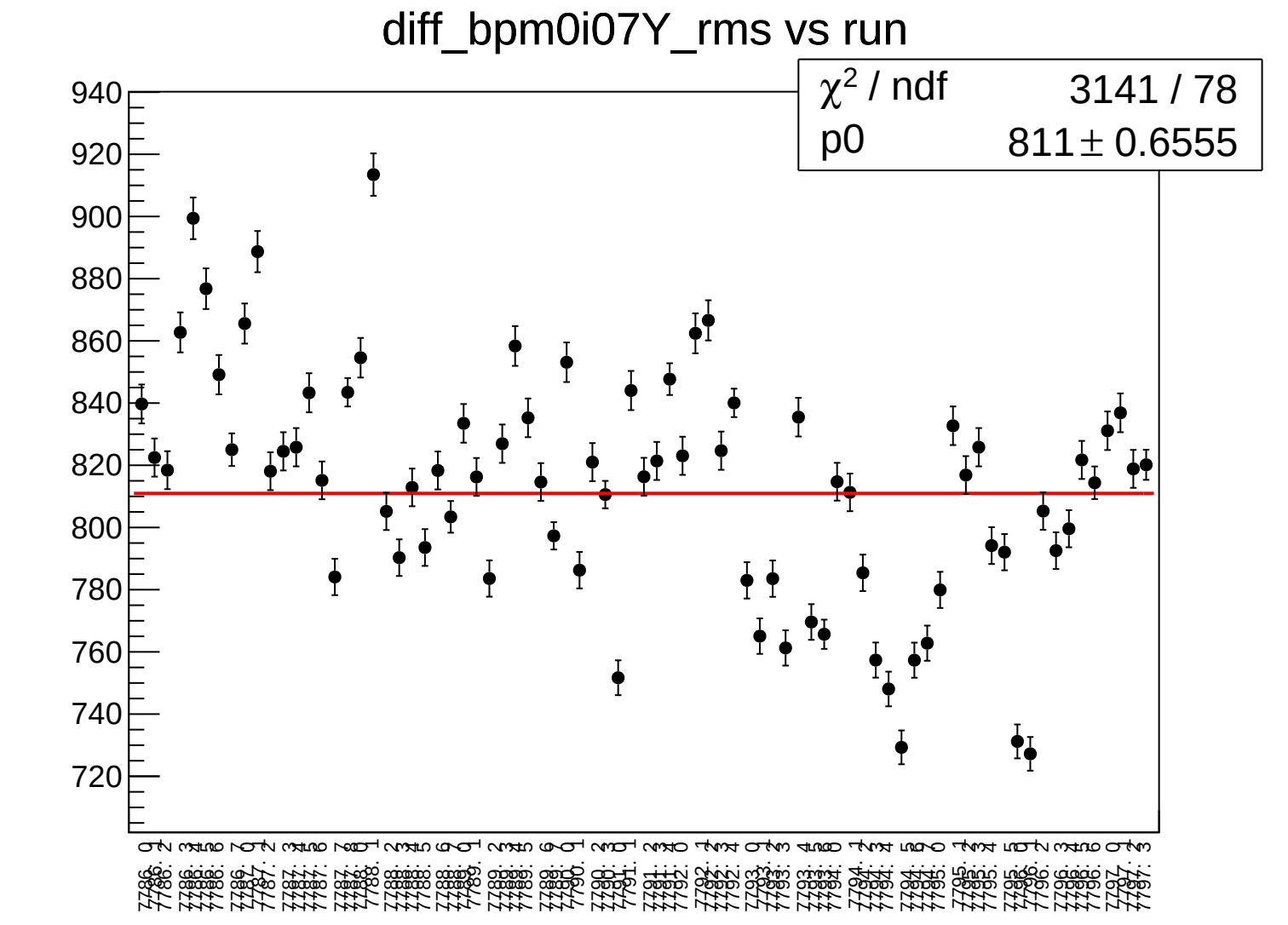

diff_bpm0i07X_mean vs run
χ² / ndf 76.88 / 78
p0 −6.006 ± 2.744
pull
Entries 79
Mean 553.4
Std Dev 0

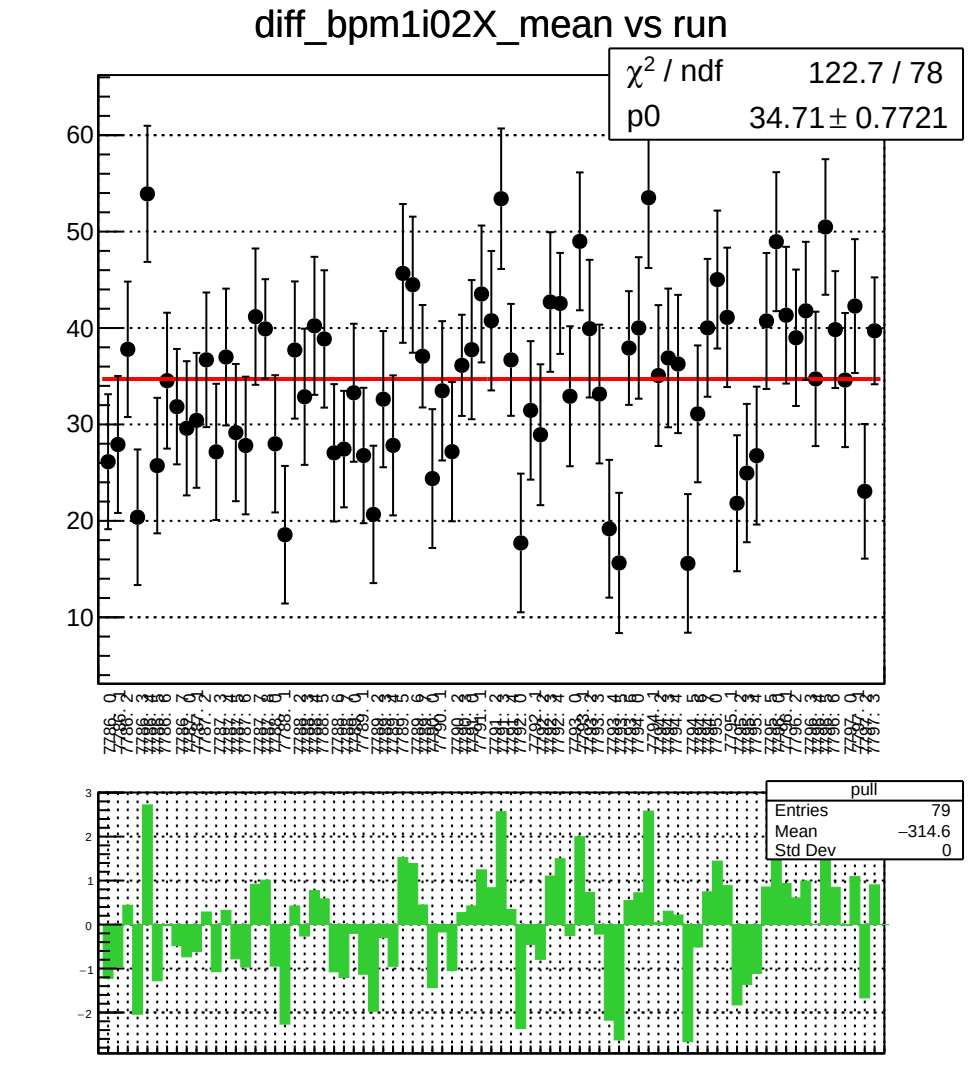

pull1D
Entries 79
Mean −0.006636
Std Dev 0.9865

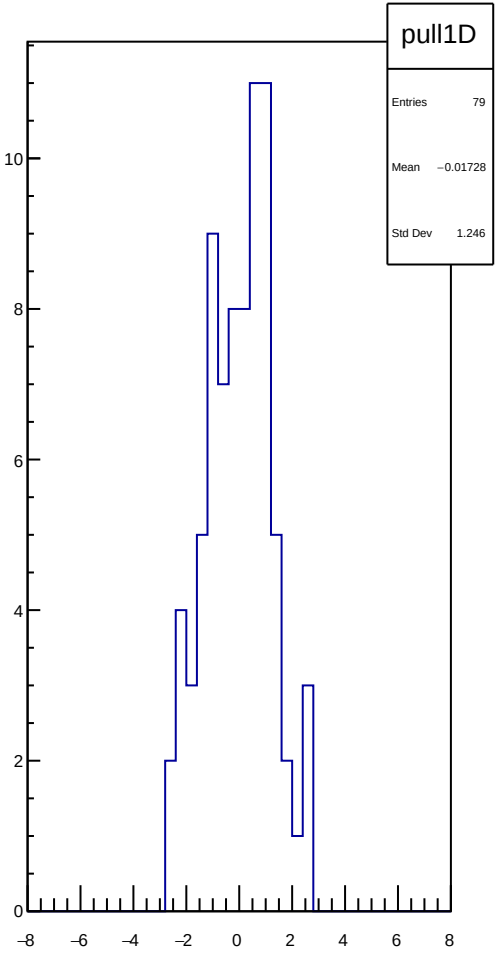

diff_bpm0i07X_rms vs run
χ² / ndf 1.093e+04 / 78
p0 2394 ± 1.94
3000
2800
2600
2400
2200
2000
1800

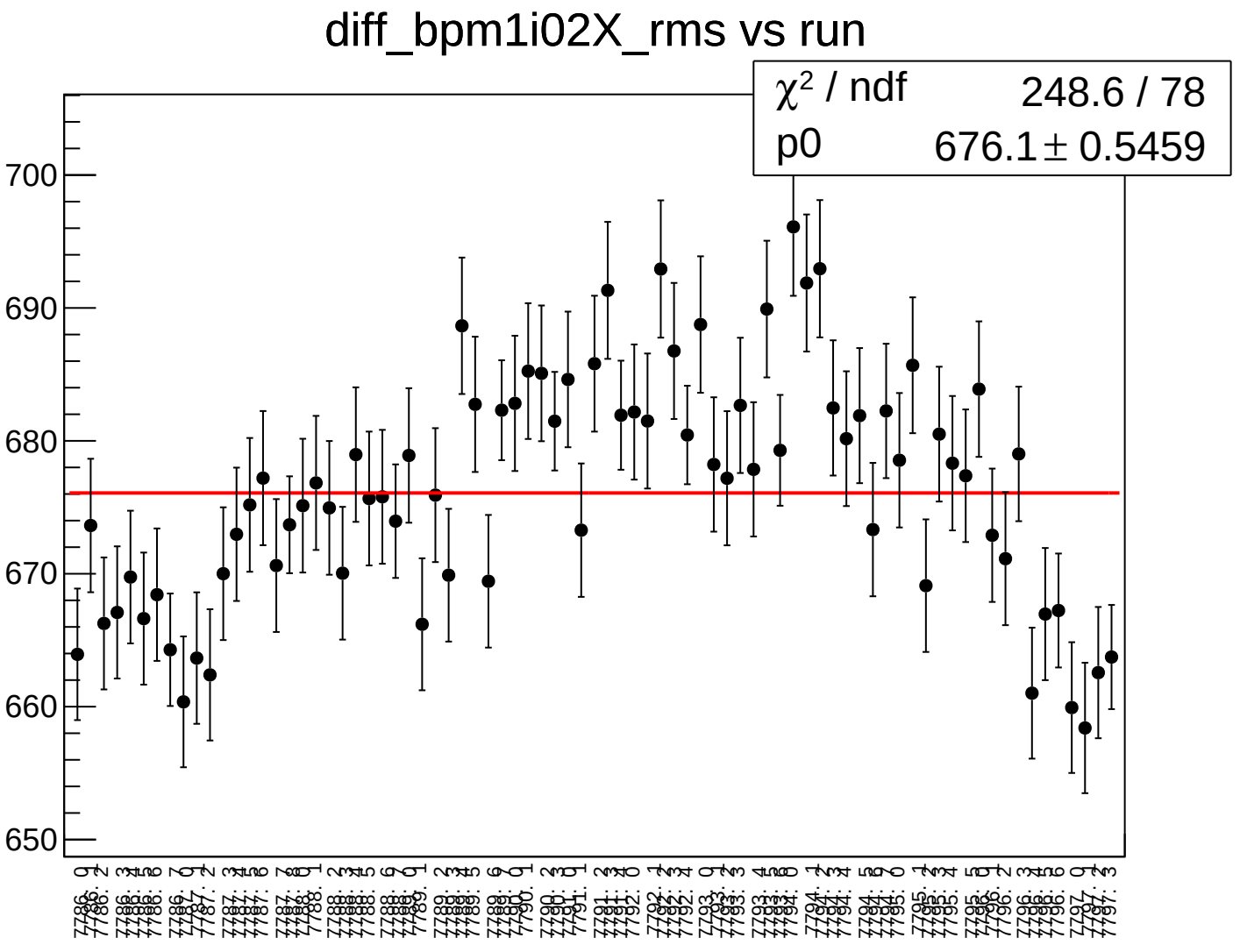

diff_bpm0i07Y_mean vs run
χ² / ndf 79.25 / 78
p0 0.2672 ± 0.927
pull
Entries 79
Mean 574.9
Std Dev 0

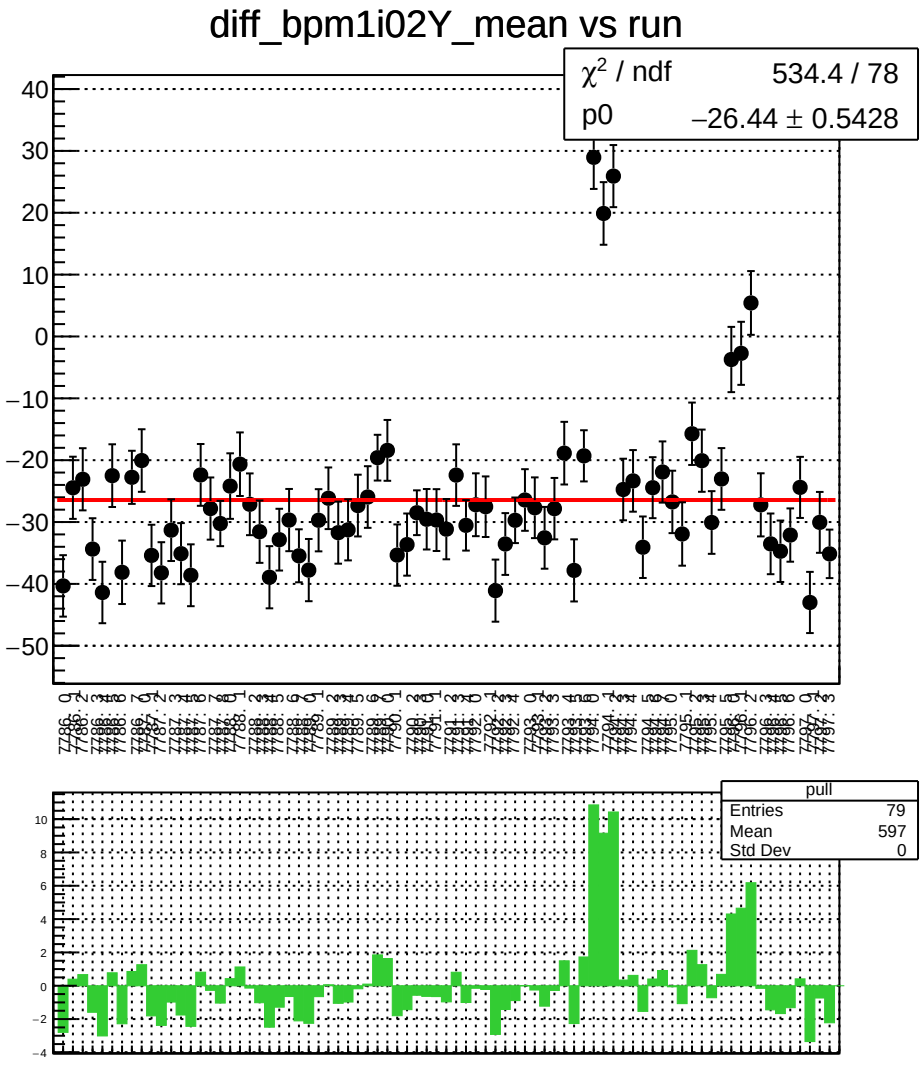

pull1D
Entries 79
Mean −0.003261
Std Dev 1.002

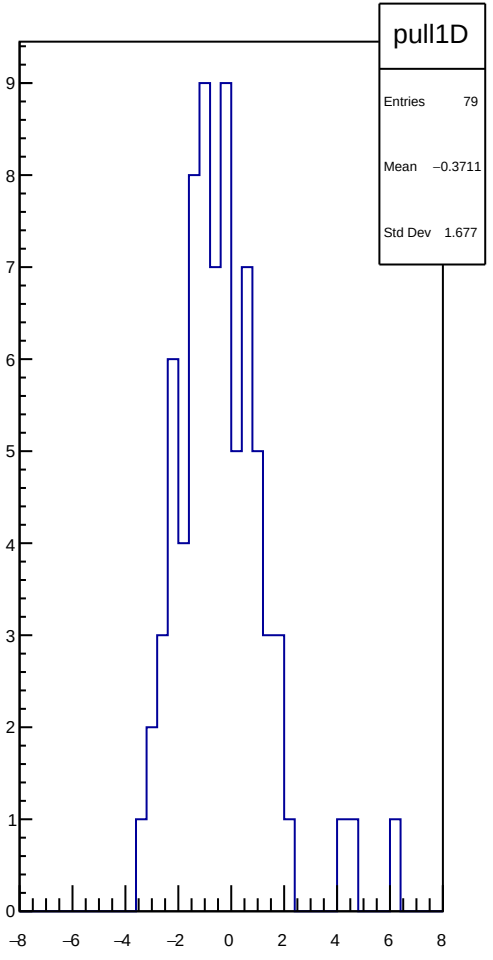

diff_bpm0i07Y_rms vs run
χ^2 / ndf 3141 / 78
p0 811 ± 0.6555
940
920
900
880
860
840
820
800
780
760
740
720

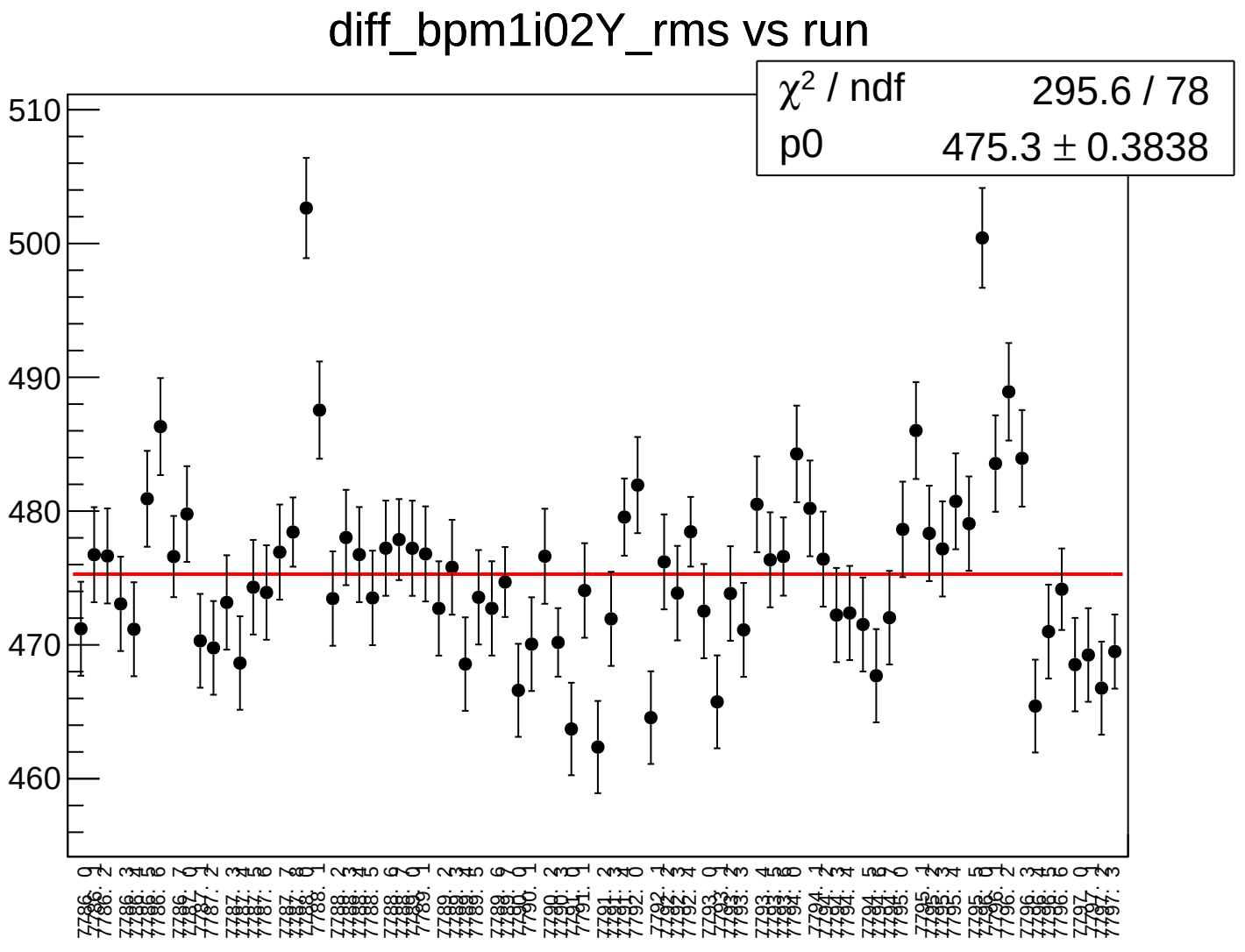

diff_bpm1i02X_mean vs run
χ² / ndf 122.7 / 78
p0 34.71 ± 0.7721
pull
Entries 79
Mean −314.6
Std Dev 0

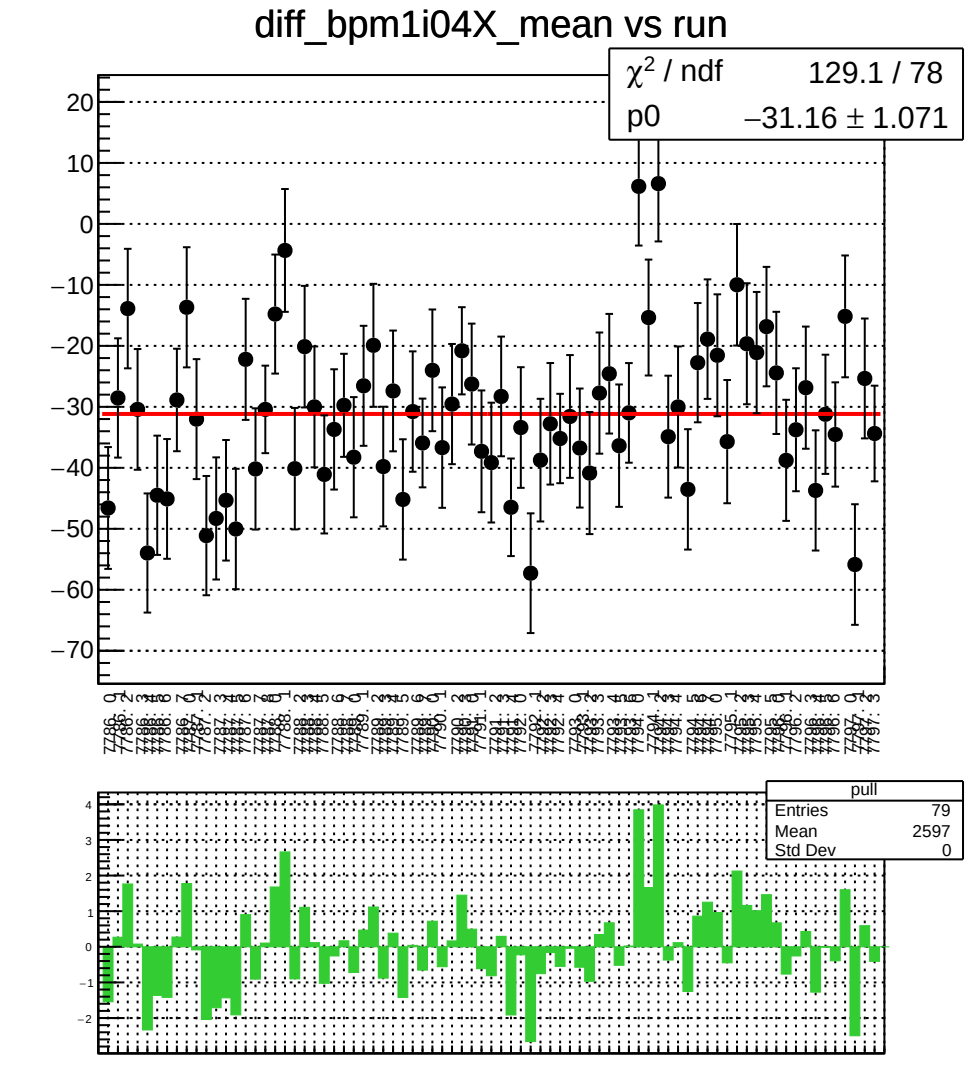

pull1D
Entries 79
Mean −0.01728
Std Dev 1.246

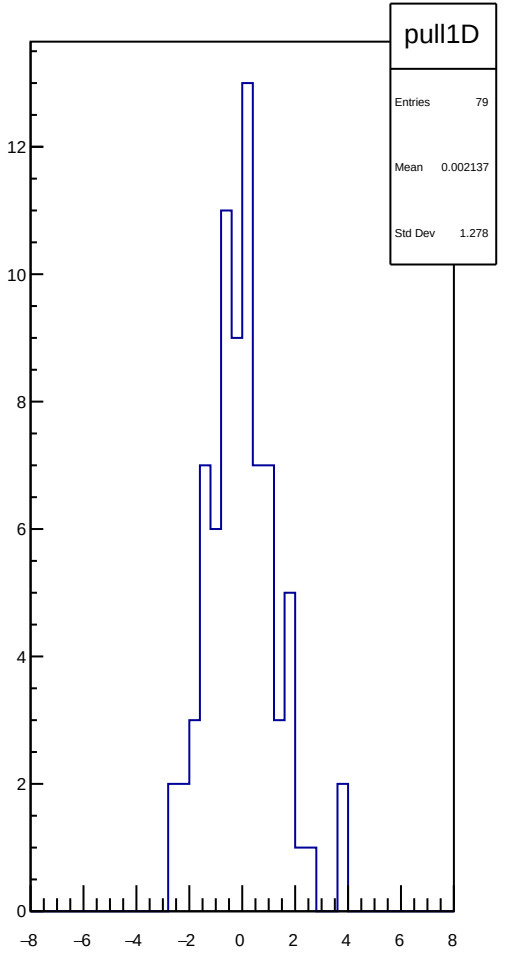

diff_bpm1i02X_rms vs run
χ² / ndf 248.6 / 78
p0 676.1 ± 0.5459
700
690
680
670
660
650

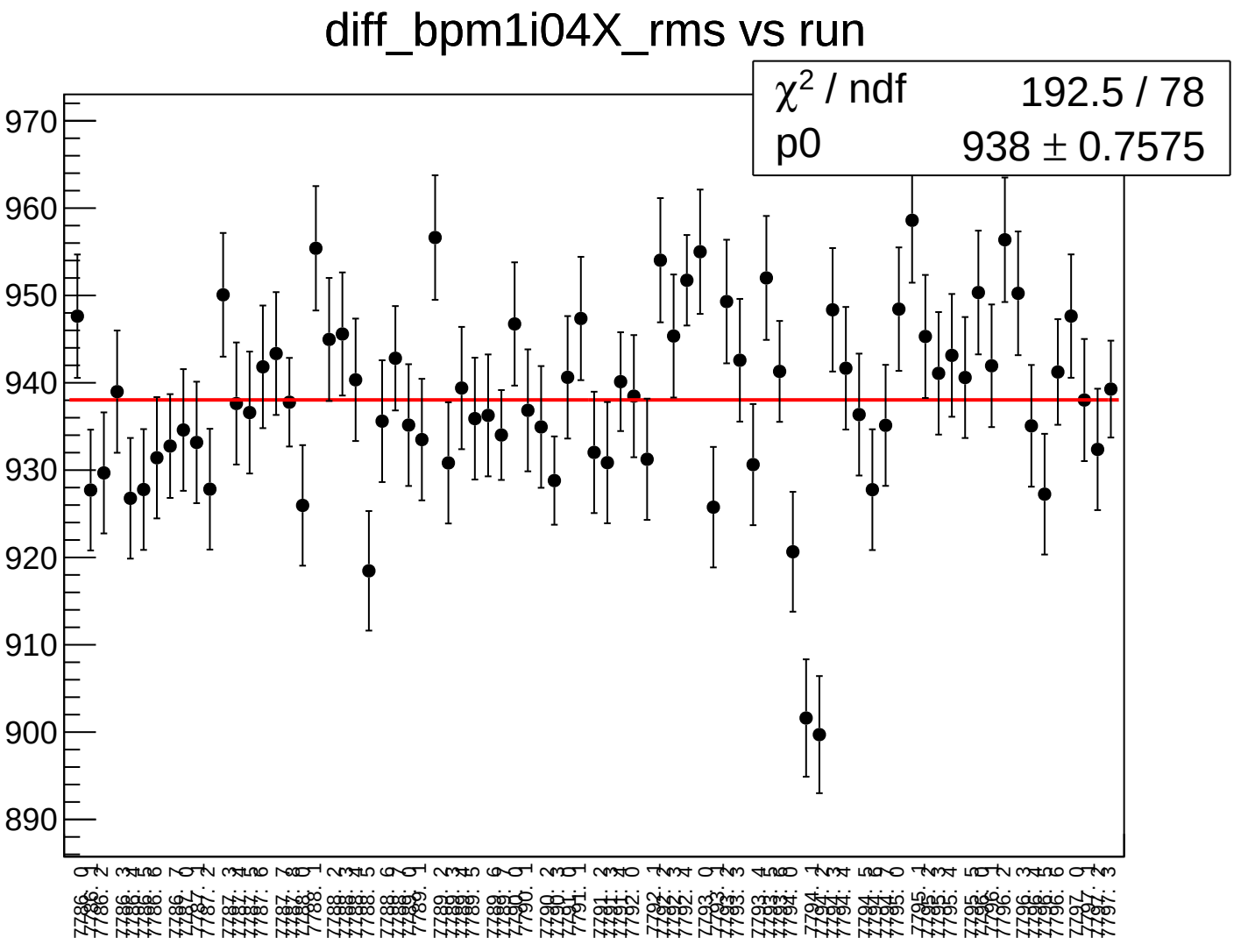

diff_bpm1i02Y_mean vs run
χ² / ndf 534.4 / 78
p0 −26.44 ± 0.5428
pull
Entries 79
Mean 597
Std Dev 0

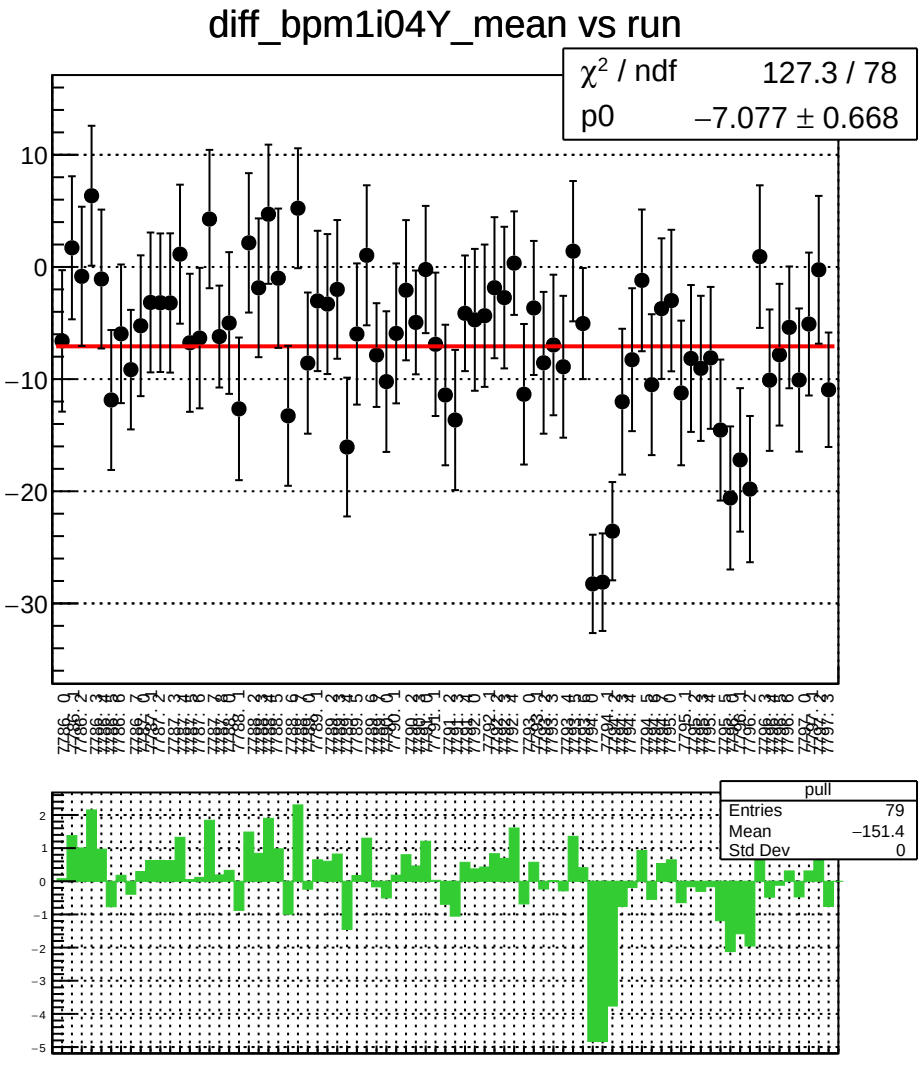

pull1D
Entries 79
Mean −0.3711
Std Dev 1.677

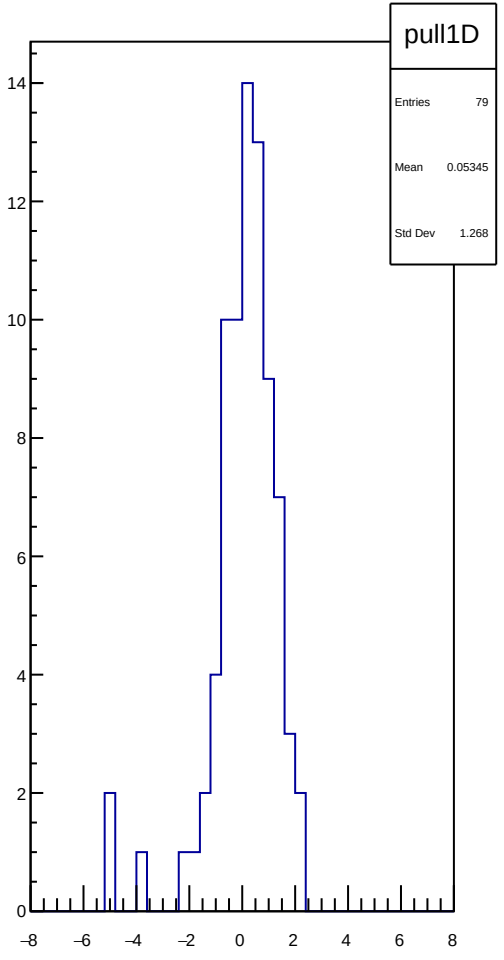

diff_bpm1i02Y_rms vs run
χ² / ndf 295.6 / 78
p0 475.3 ± 0.3838
510
500
490
480
470
460

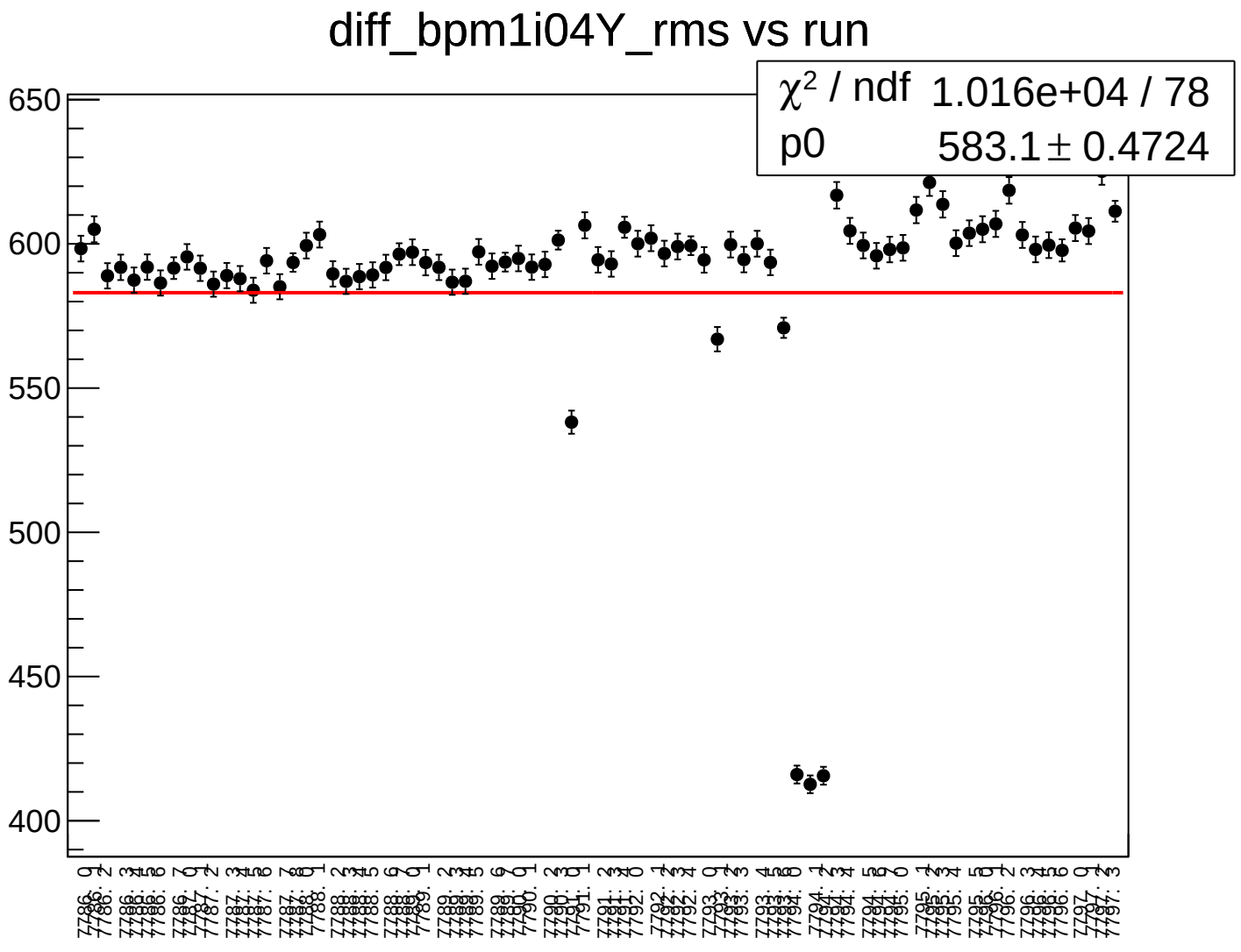

diff_bpm1i04X_mean vs run
χ^2 / ndf 129.1 / 78
p0 −31.16 ± 1.071
pull
Entries 79
Mean 2597
Std Dev 0

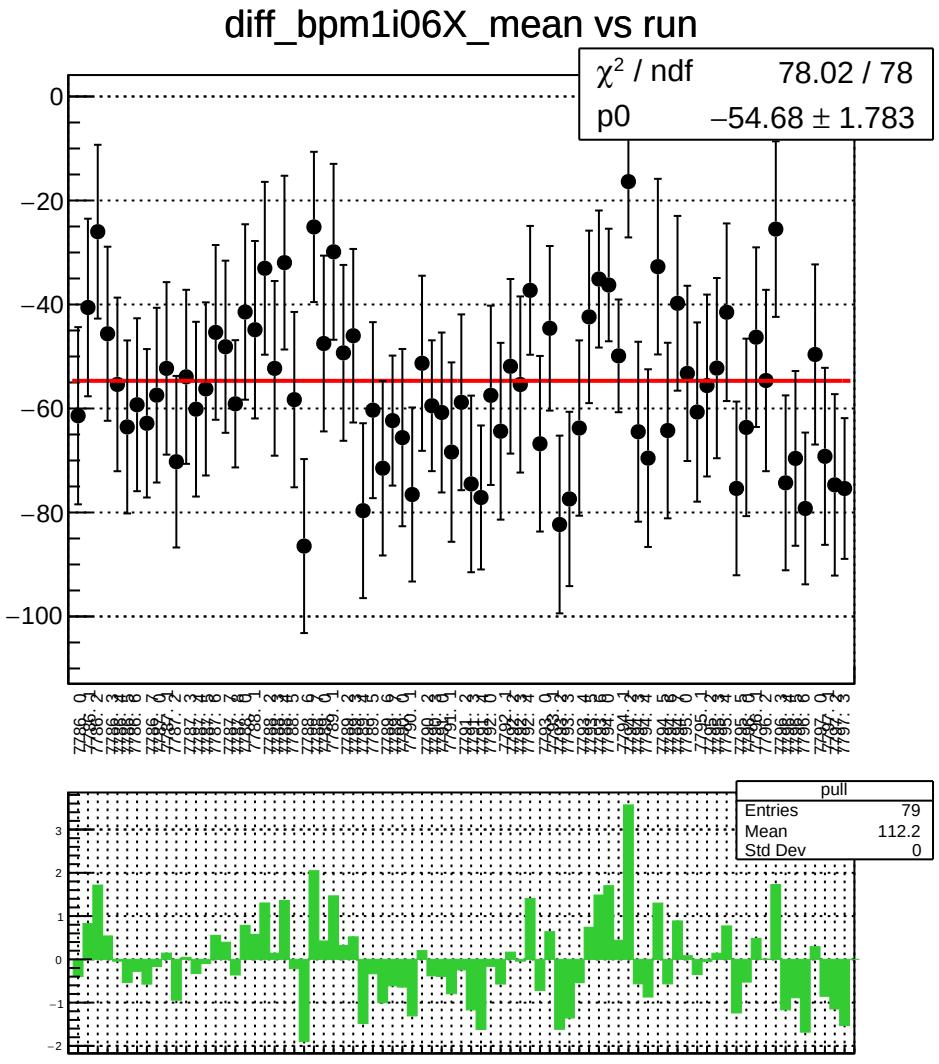

pull1D
Entries 79
Mean 0.002137
Std Dev 1.278

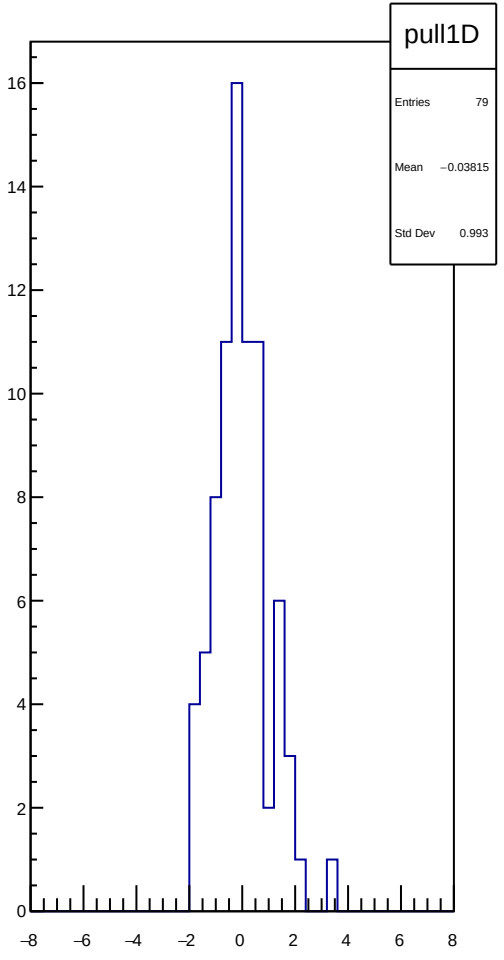

diff_bpm1i04X_rms vs run
χ^2 / ndf 192.5 / 78
p0 938 ± 0.7575
970
960
950
940
930
920
910
900
890

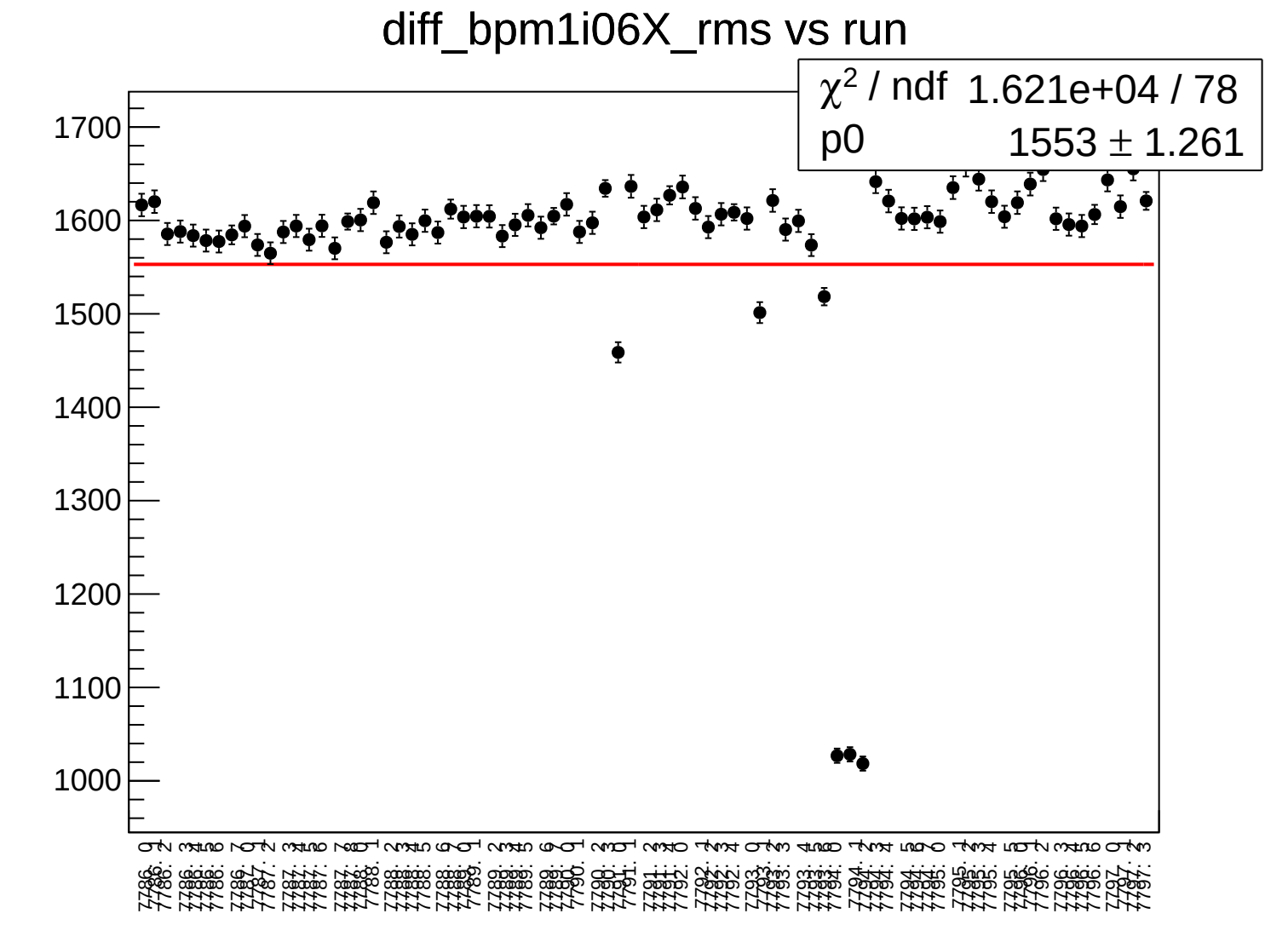

diff_bpm1i04Y_mean vs run
χ² / ndf 127.3 / 78
p0 −7.077 ± 0.668
pull
Entries 79
Mean −151.4
Std Dev 0

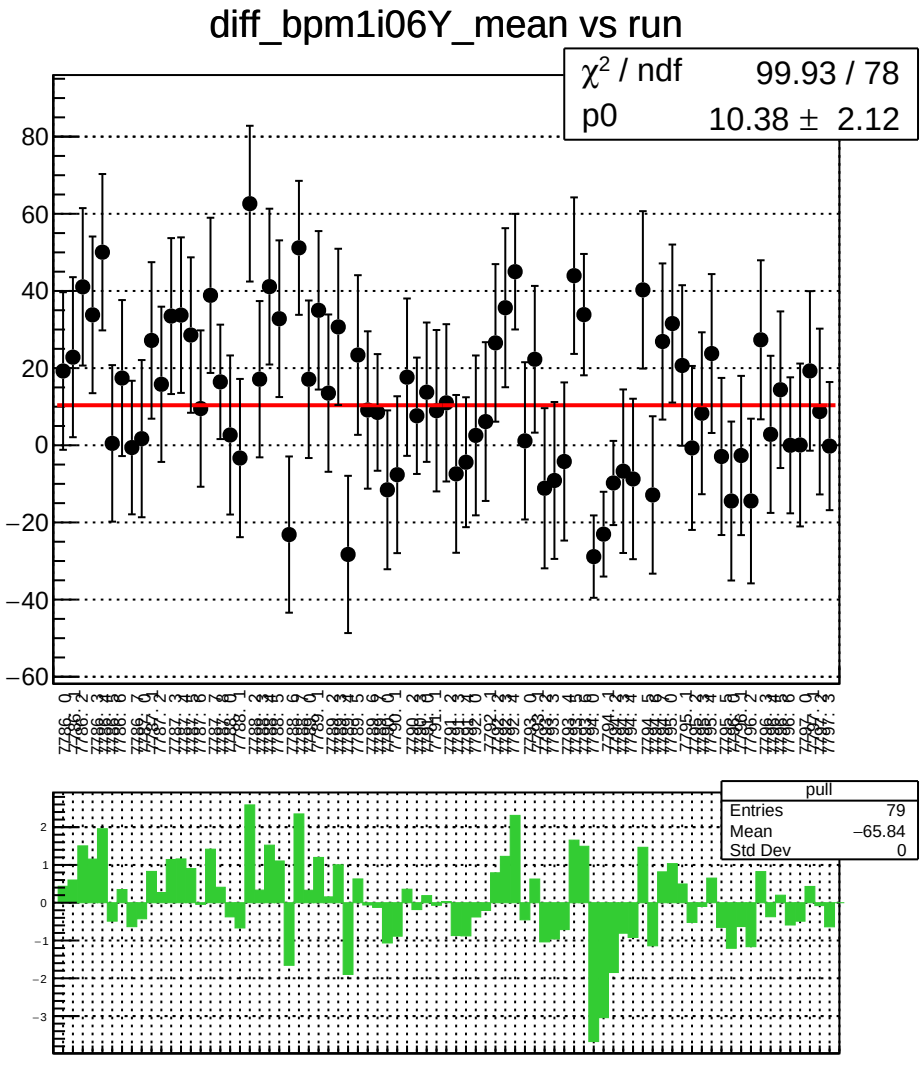

pull1D
Entries 79
Mean 0.05345
Std Dev 1.268

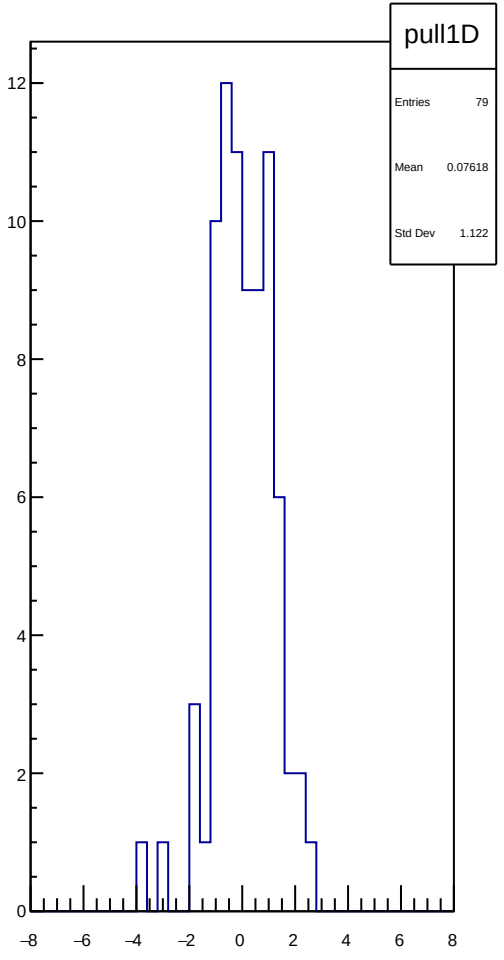

diff_bpm1i04Y_rms vs run
χ² / ndf 1.016e+04 / 78
p0 583.1 ± 0.4724
650
600
550
500
450
400

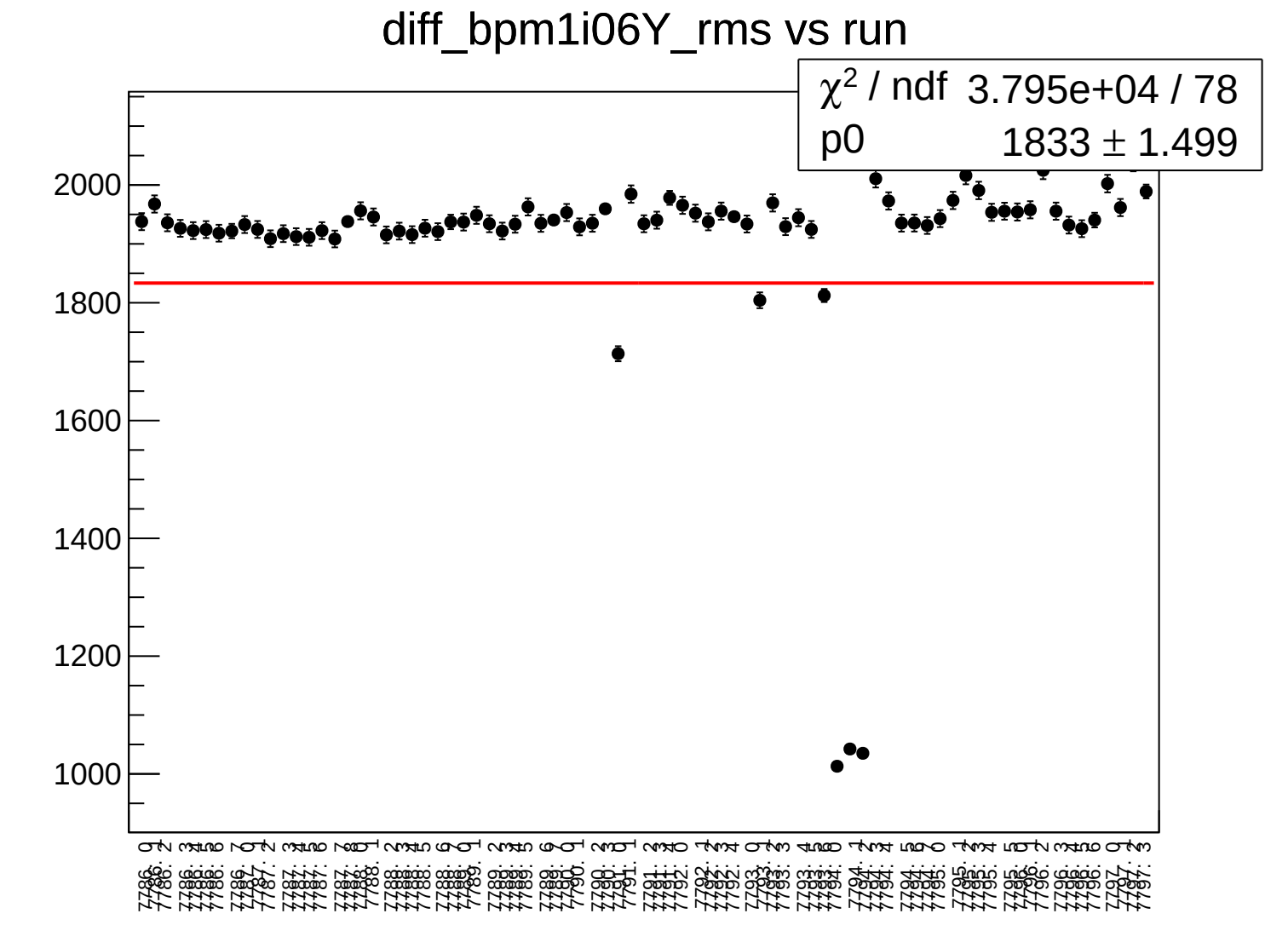

diff_bpm1i06X_mean vs run
χ² / ndf 78.02 / 78
p0 −54.68 ± 1.783
pull
Entries 79
Mean 112.2
Std Dev 0

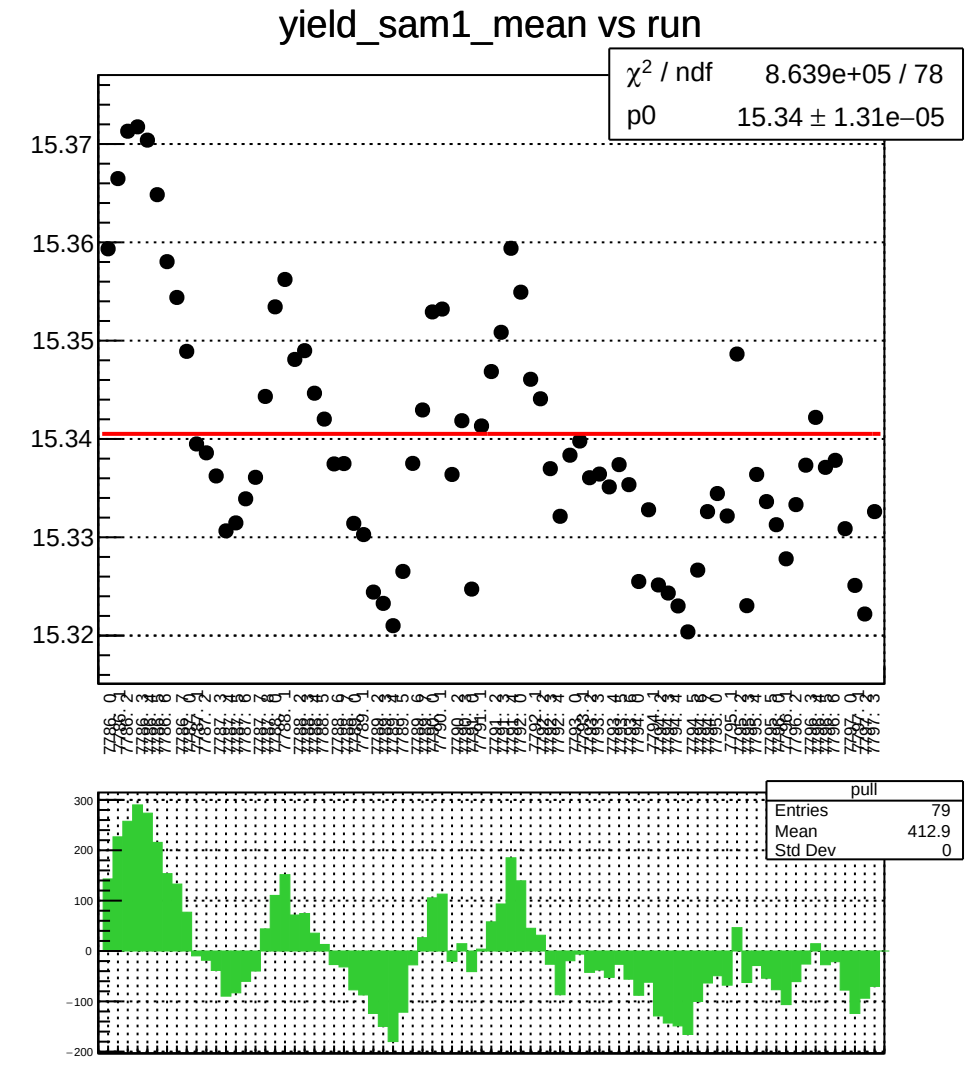

pull1D
Entries 79
Mean −0.03815
Std Dev 0.993

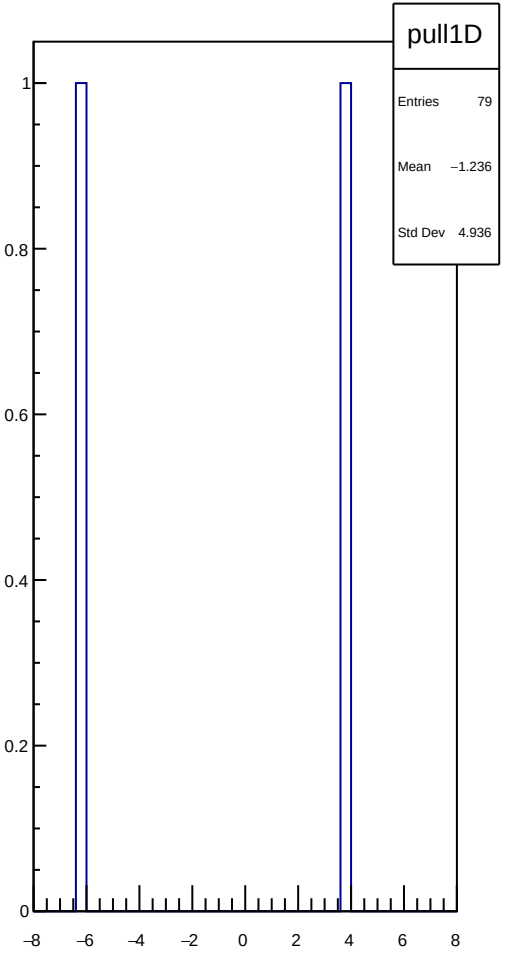

diff_bpm1i06X_rms vs run
χ^2 / ndf 1.621e+04 / 78
p0 1553 ± 1.261
1700
1600
1500
1400
1300
1200
1100
1000

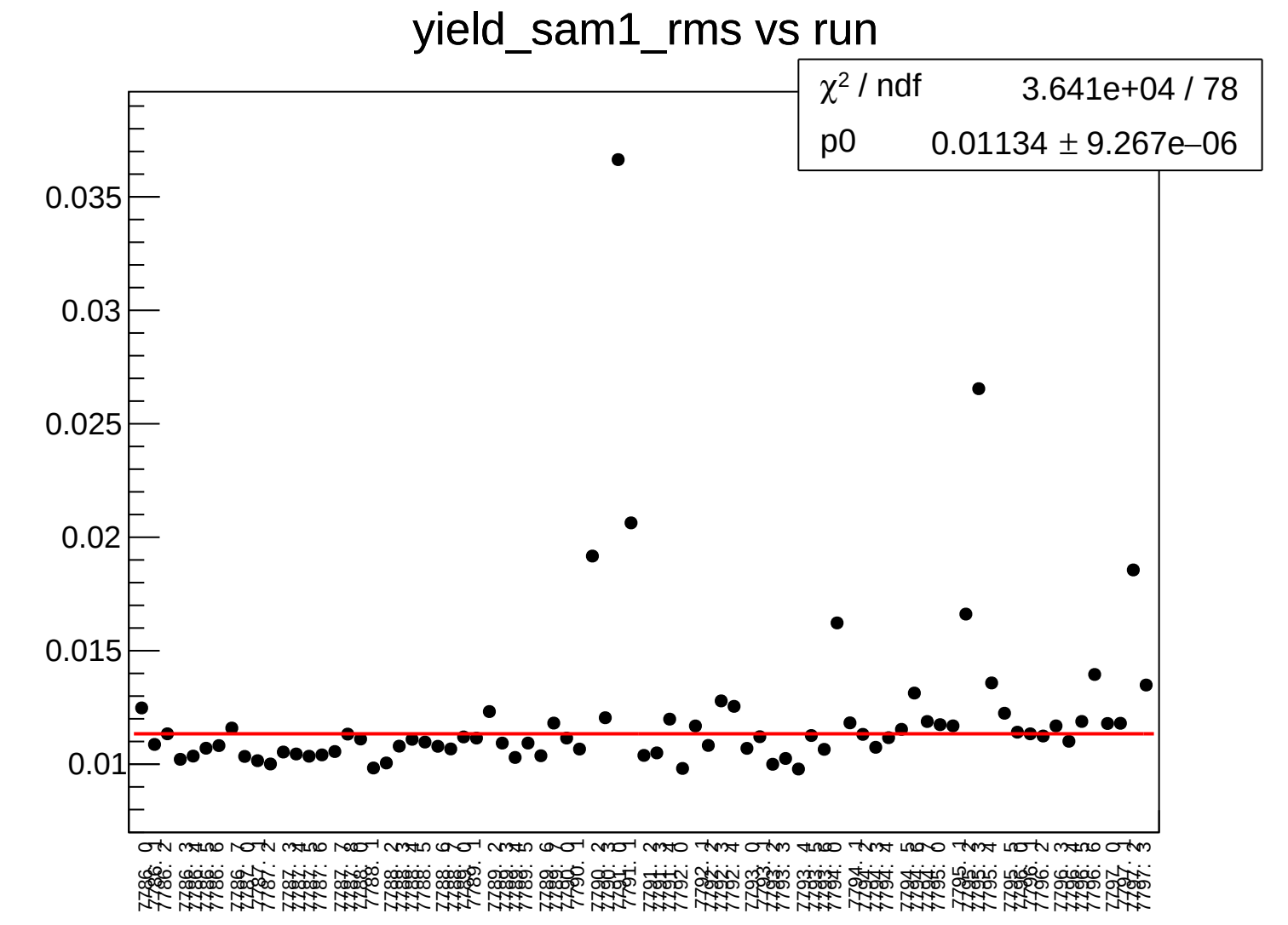

diff_bpm1i06Y_mean vs run
χ² / ndf 99.93 / 78
p0 10.38 ± 2.12
pull
Entries 79
Mean −65.84
Std Dev 0

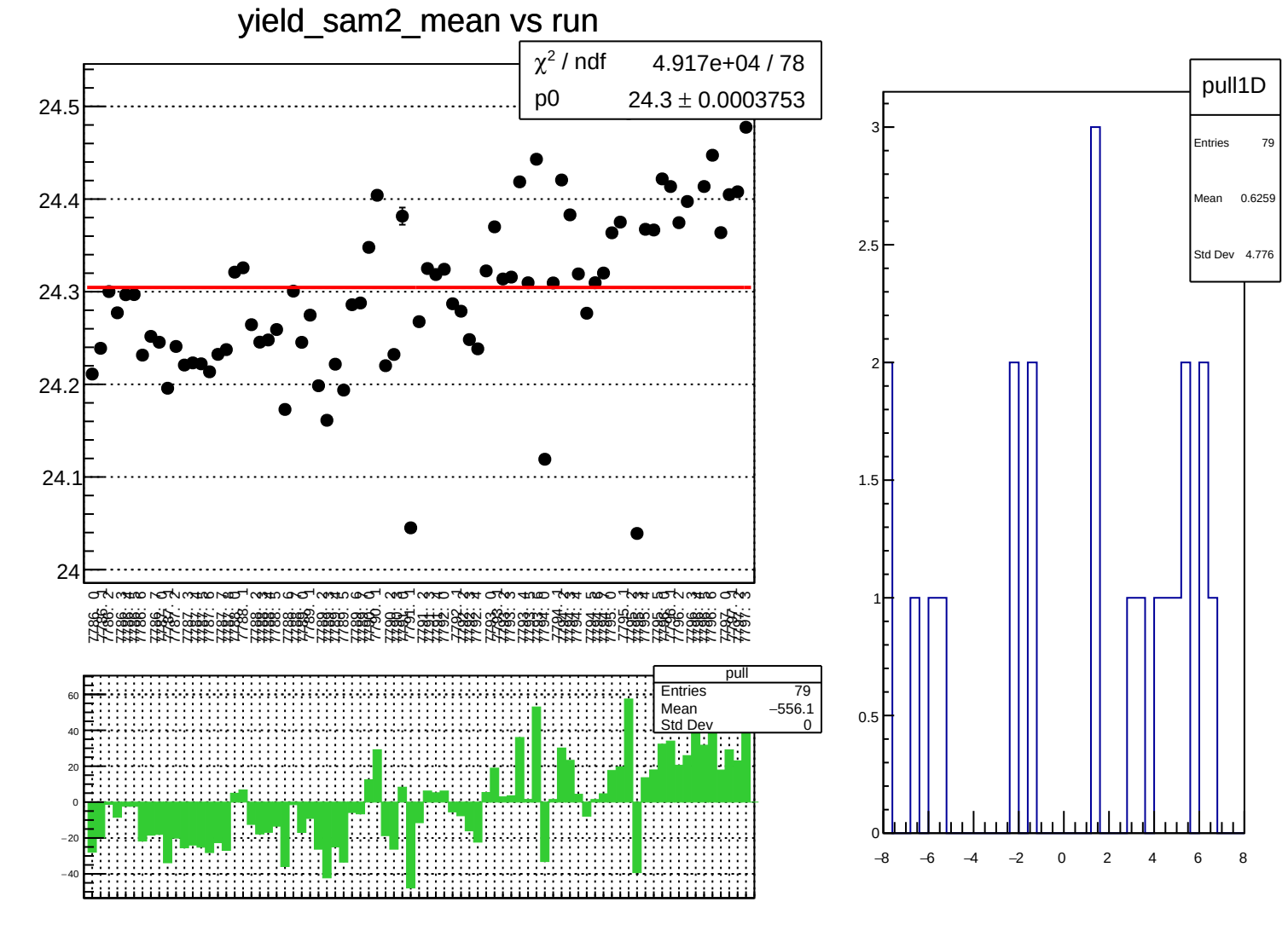

pull1D
Entries 79
Mean 0.07618
Std Dev 1.122

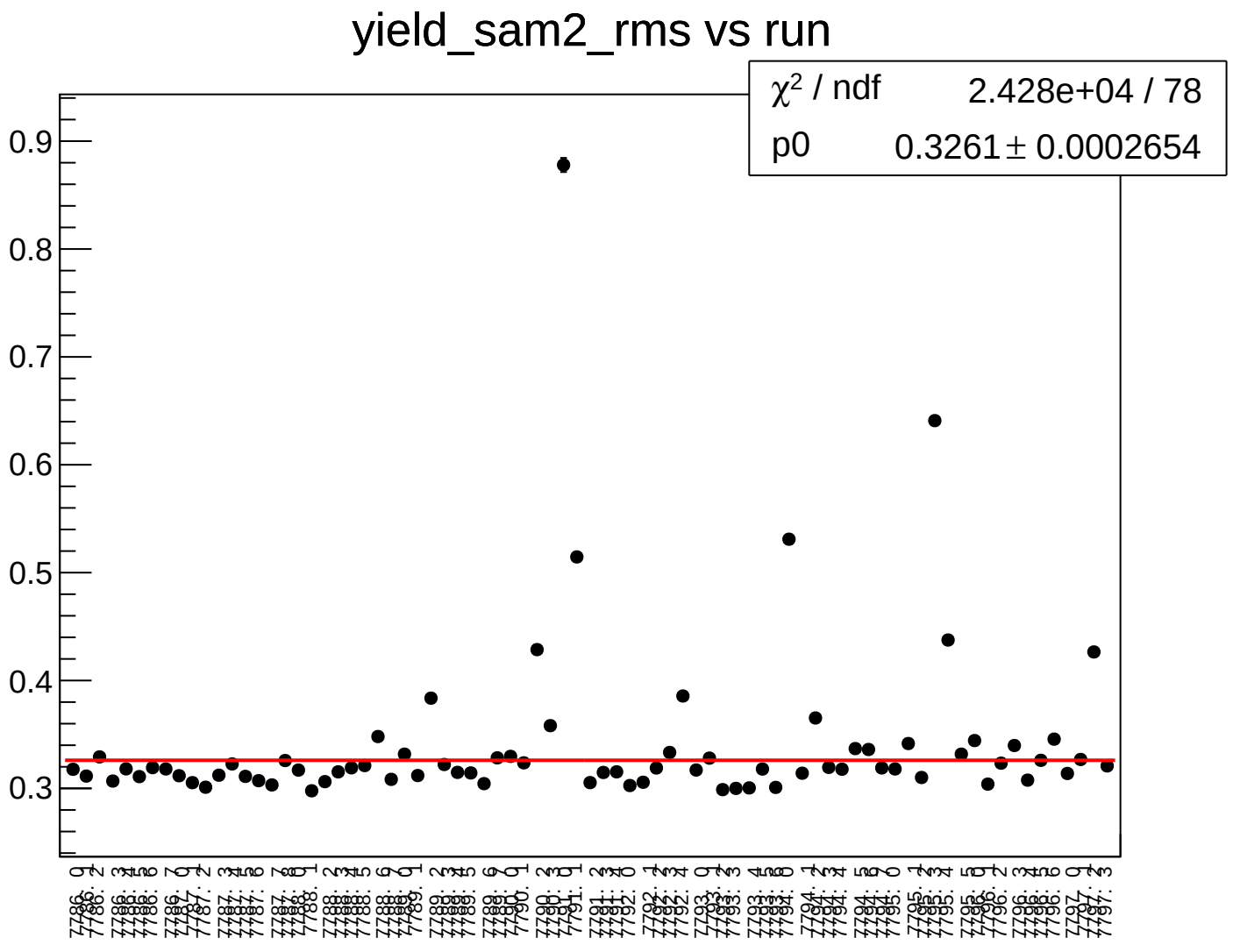

diff_bpm1i06Y_rms vs run
χ² / ndf 3.795e+04 / 78
p0 1833 ± 1.499
2000
1800
1600
1400
1200
1000

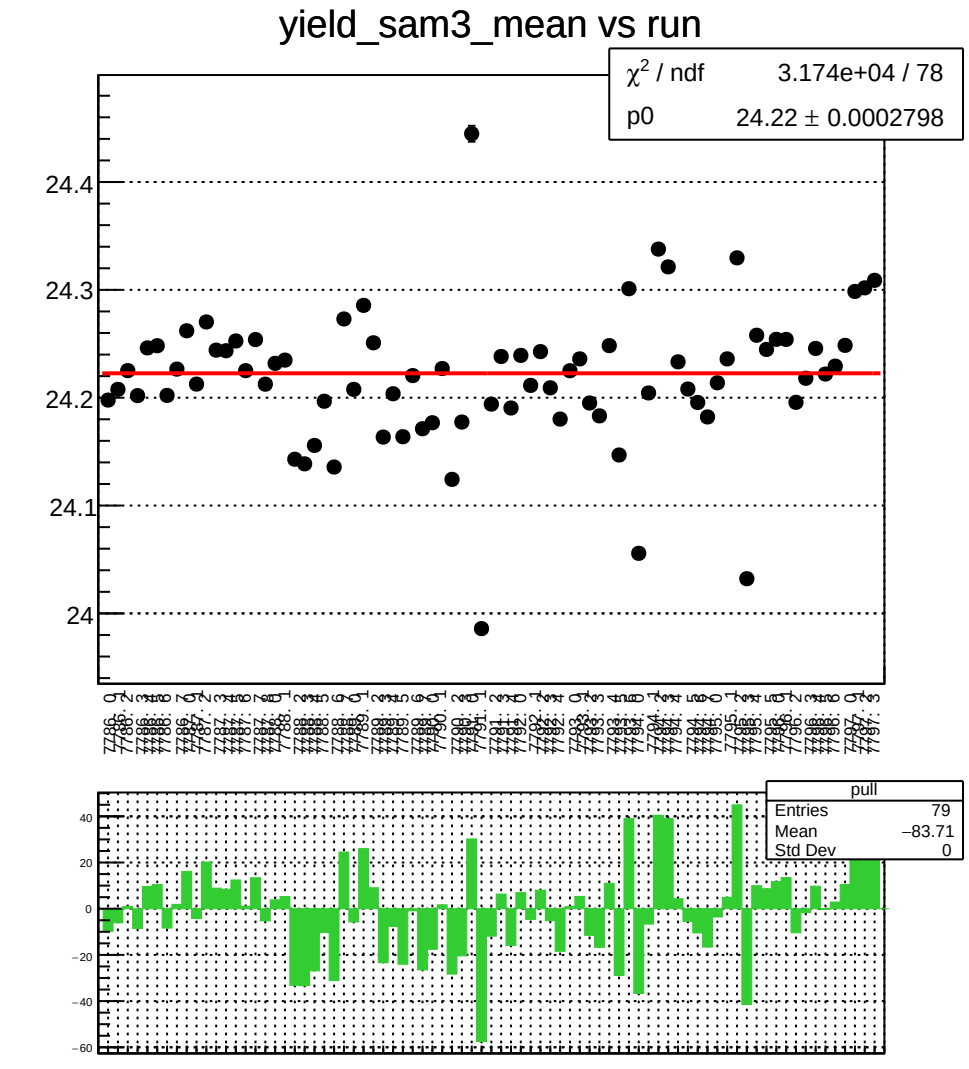

yield_sam1_mean vs run
χ² / ndf 8.639e+05 / 78
p0 15.34 ± 1.31e−05
15.37
15.36
15.35
15.34
15.33
15.32
pull
Entries 79
Mean 412.9
Std Dev 0
300
200
100
0
−100
−200

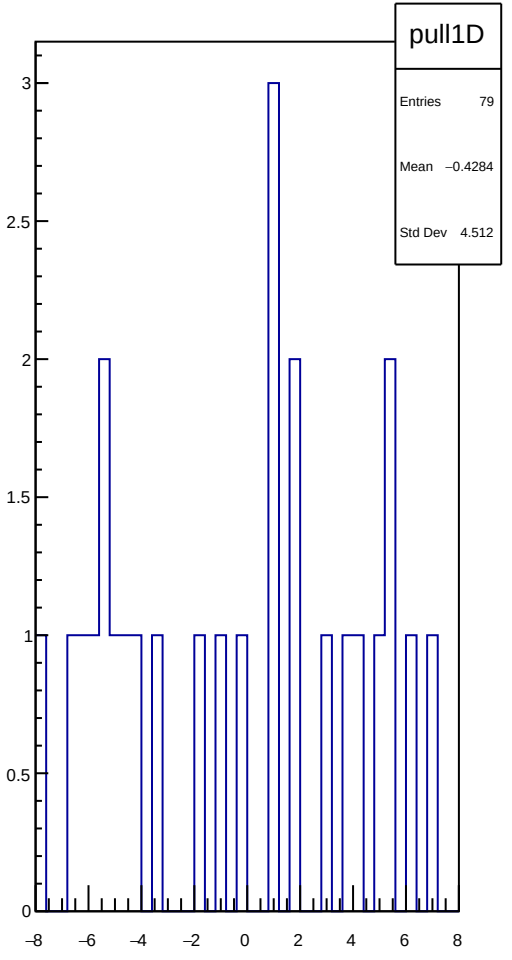

pull1D
Entries 79
Mean −1.236
Std Dev 4.936
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

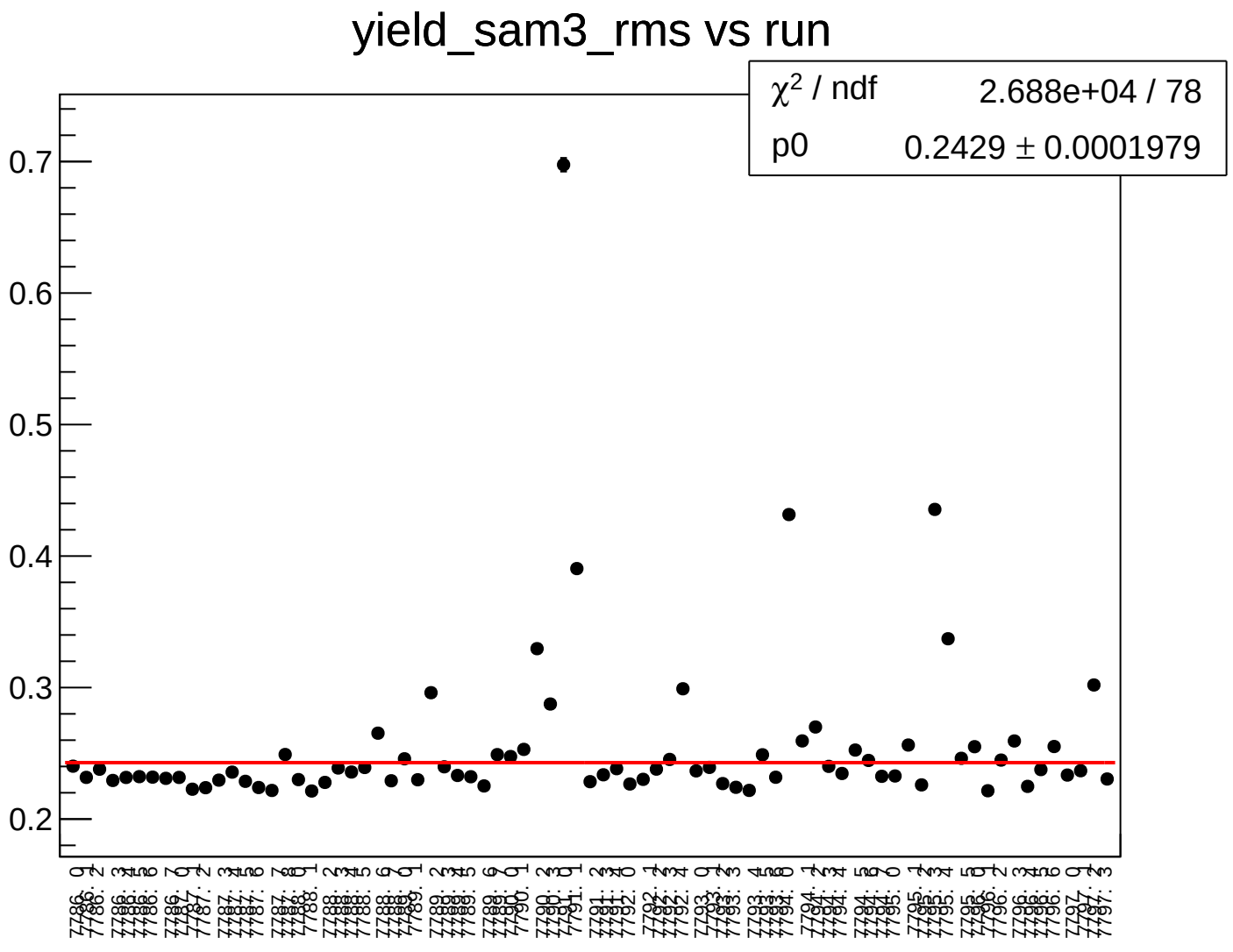

yield_sam1_rms vs run
χ² / ndf 3.641e+04 / 78
p0 0.01134 ± 9.267e–06
0.035
0.03
0.025
0.02
0.015
0.01

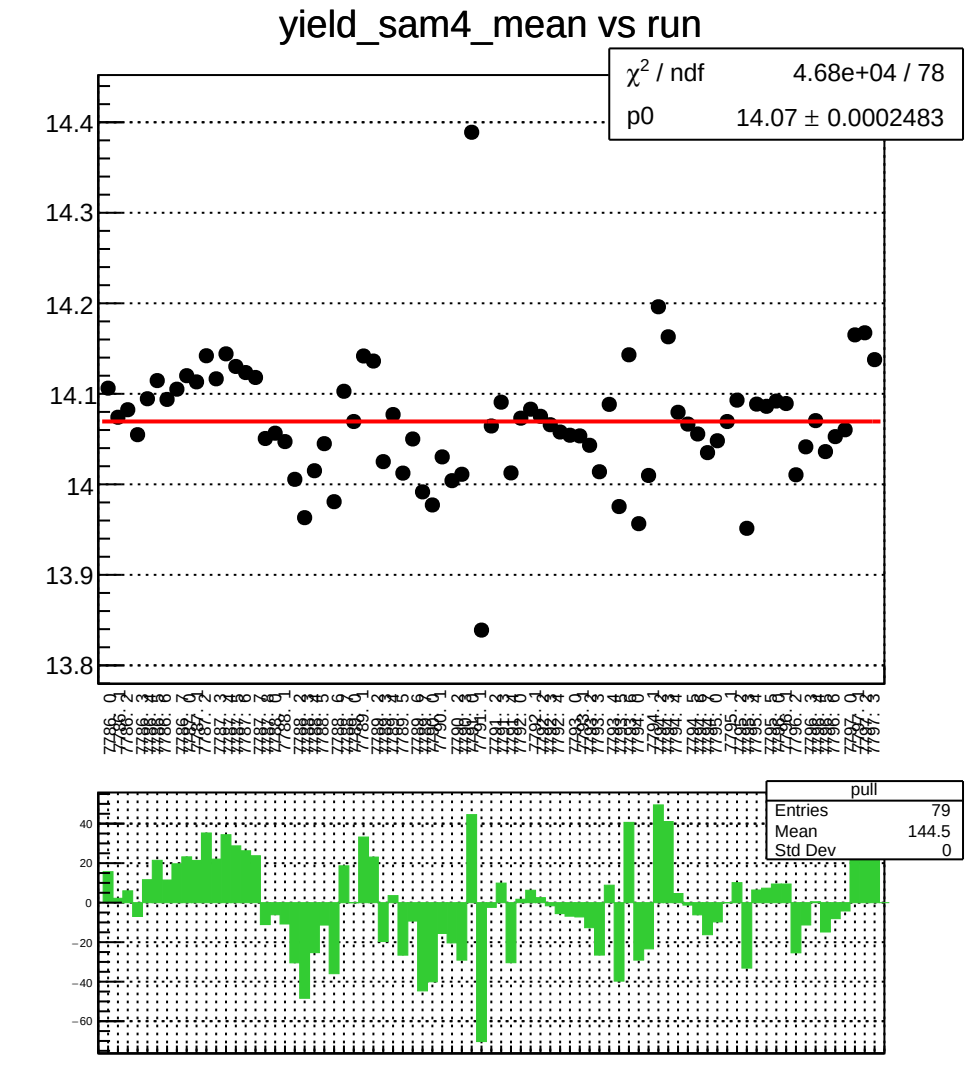

yield_sam2_mean vs run
χ² / ndf 4.917e+04 / 78
p0 24.3 ± 0.0003753
24.5
24.4
24.3
24.2
24.1
24
pull
Entries 79
Mean −556.1
Std Dev 0
60
40
20
0
−20
−40
pull1D
Entries 79
Mean 0.6259
Std Dev 4.776
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

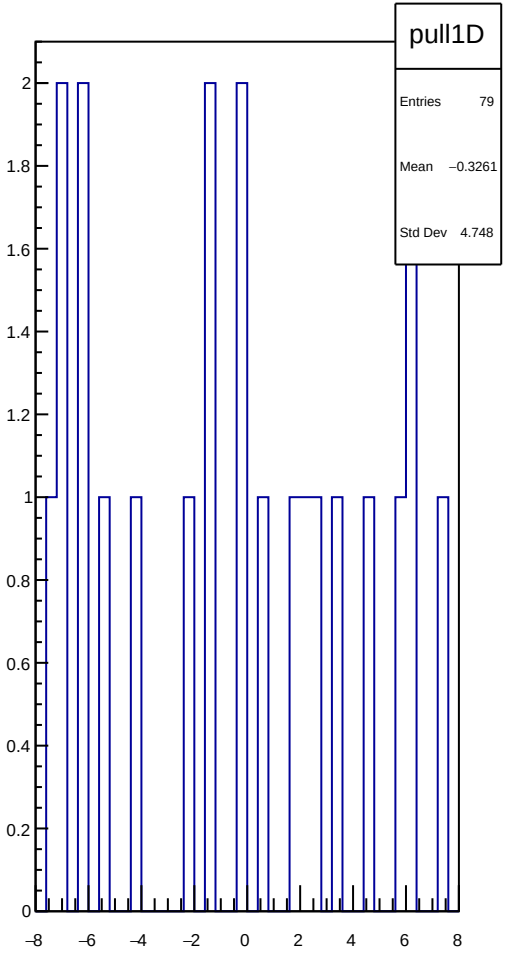

yield_sam2_rms vs run
χ² / ndf 2.428e+04 / 78
p0 0.3261 ± 0.0002654
0.9
0.8
0.7
0.6
0.5
0.4
0.3

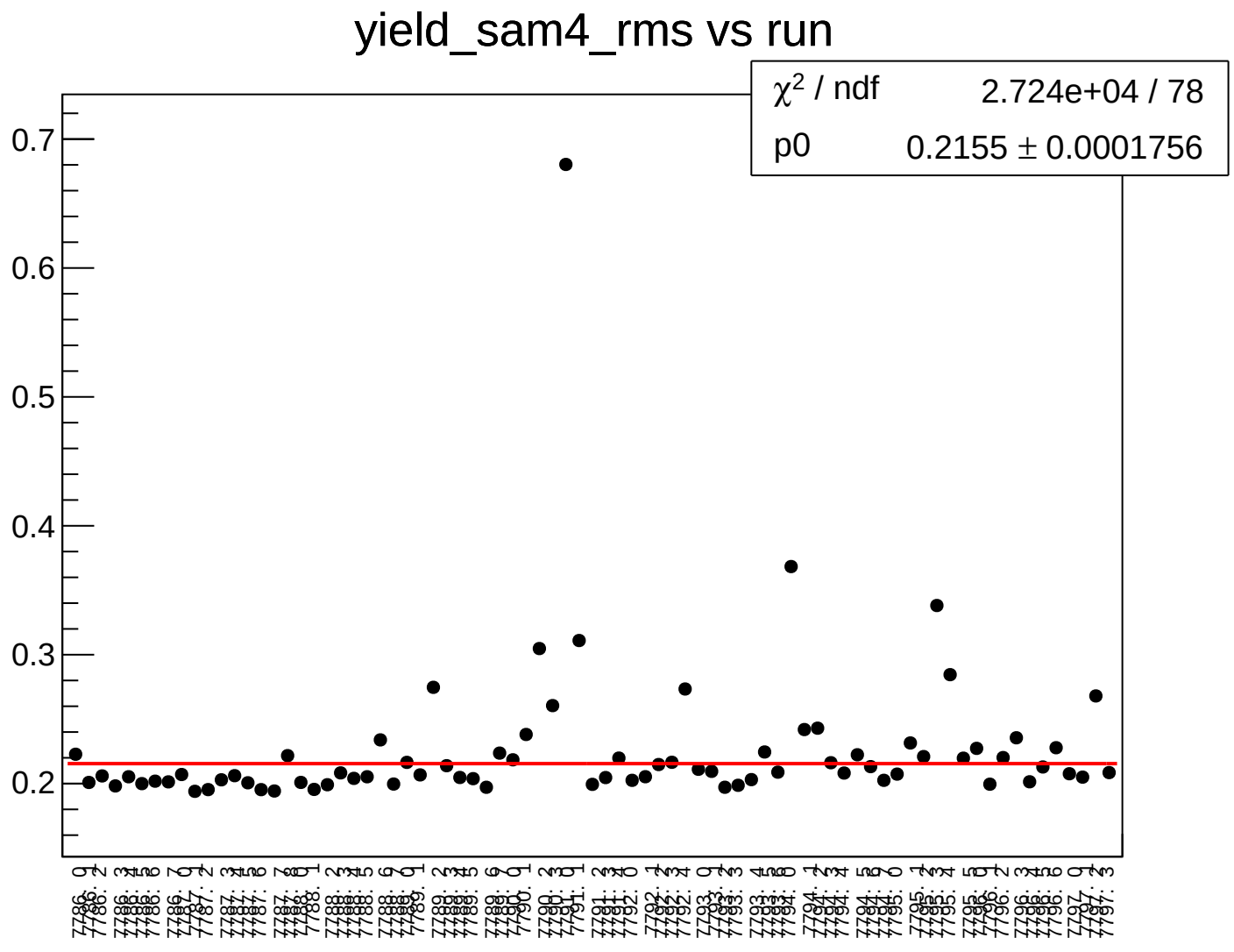

yield_sam3_mean vs run
χ² / ndf 3.174e+04 / 78
p0 24.22 ± 0.0002798
24.4
24.3
24.2
24.1
24
pull
Entries 79
Mean −83.71
Std Dev 0
40
20
0
−20
−40
−60

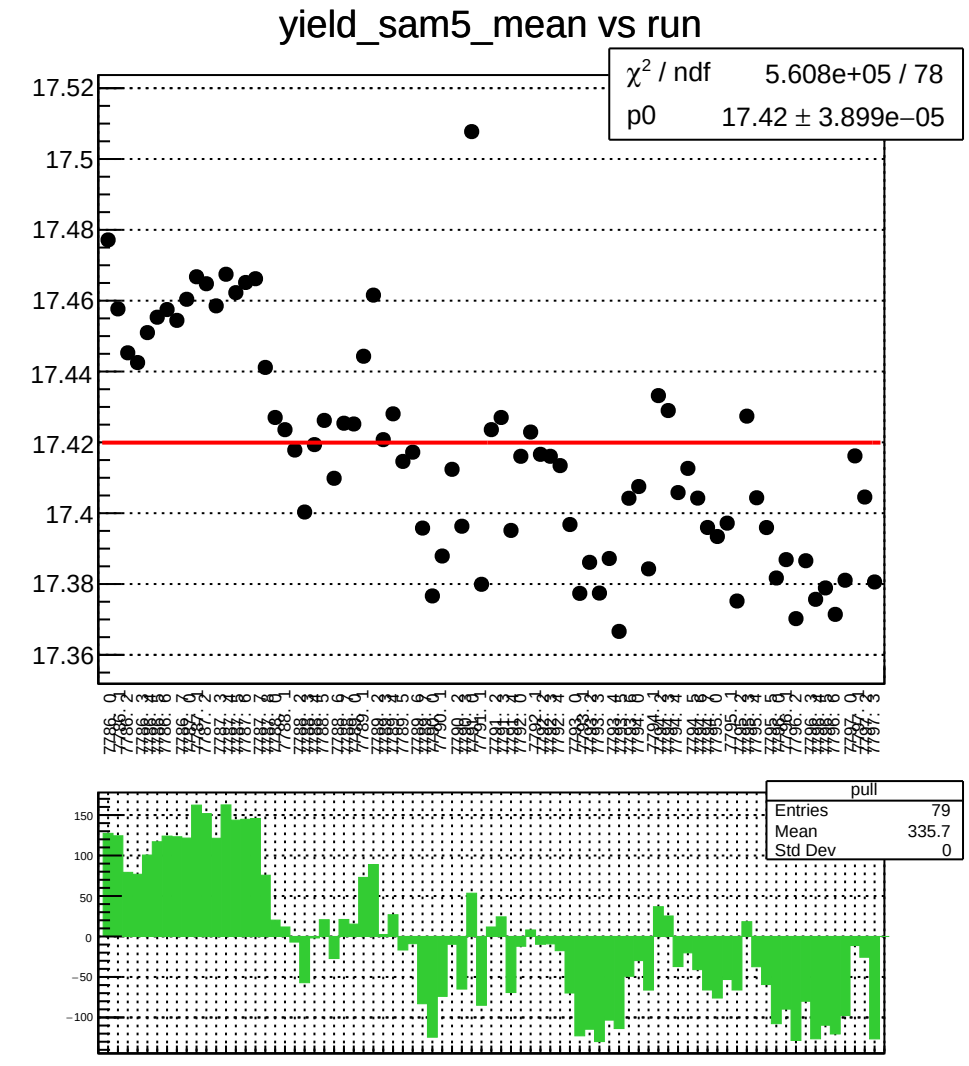

pull1D
Entries 79
Mean −0.4284
Std Dev 4.512
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

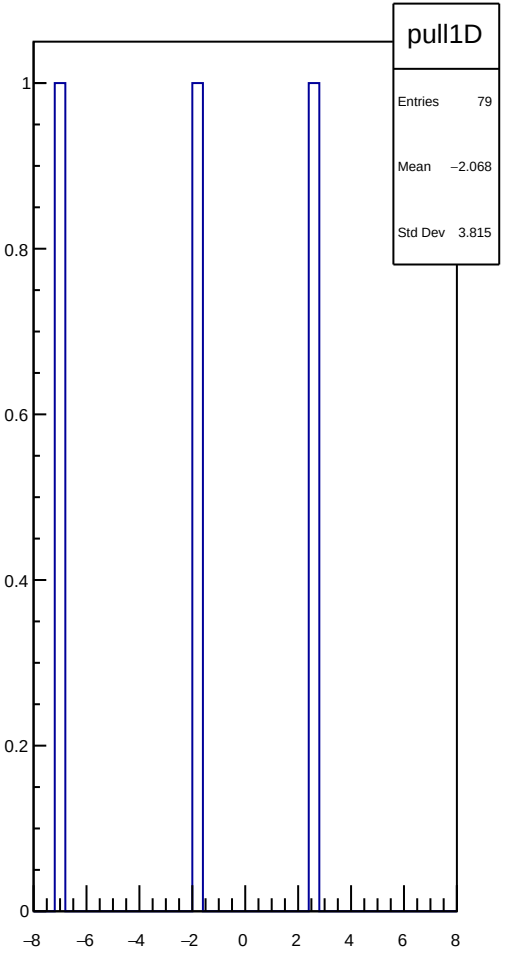

yield_sam3_rms vs run
χ² / ndf 2.688e+04 / 78
p0 0.2429 ± 0.0001979
0.7
0.6
0.5
0.4
0.3
0.2

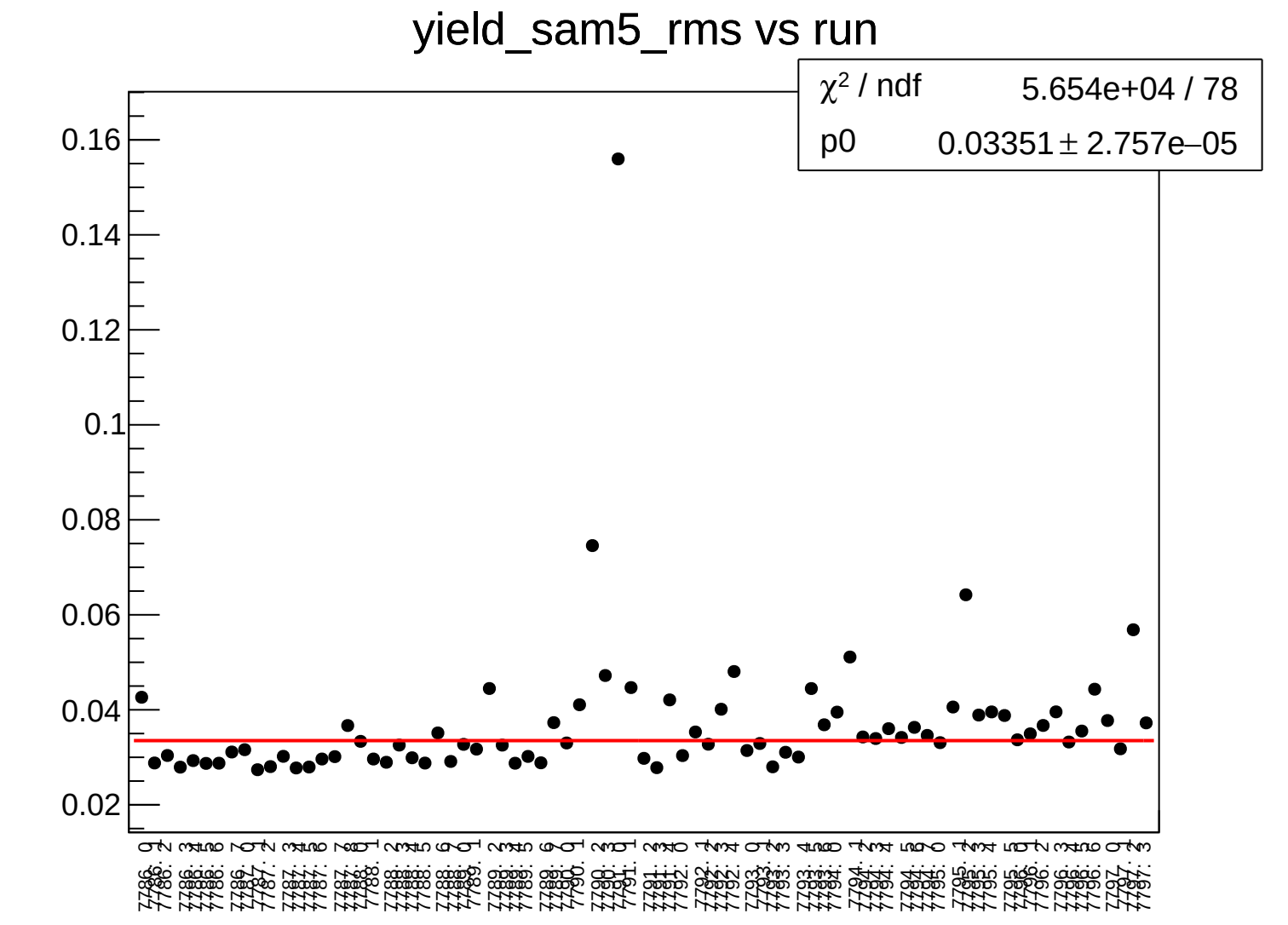

yield_sam4_mean vs run
χ² / ndf 4.68e+04 / 78
p0 14.07 ± 0.0002483
14.4
14.3
14.2
14.1
14
13.9
13.8
pull
Entries 79
Mean 144.5
Std Dev 0
40
20
0
−20
−40
−60

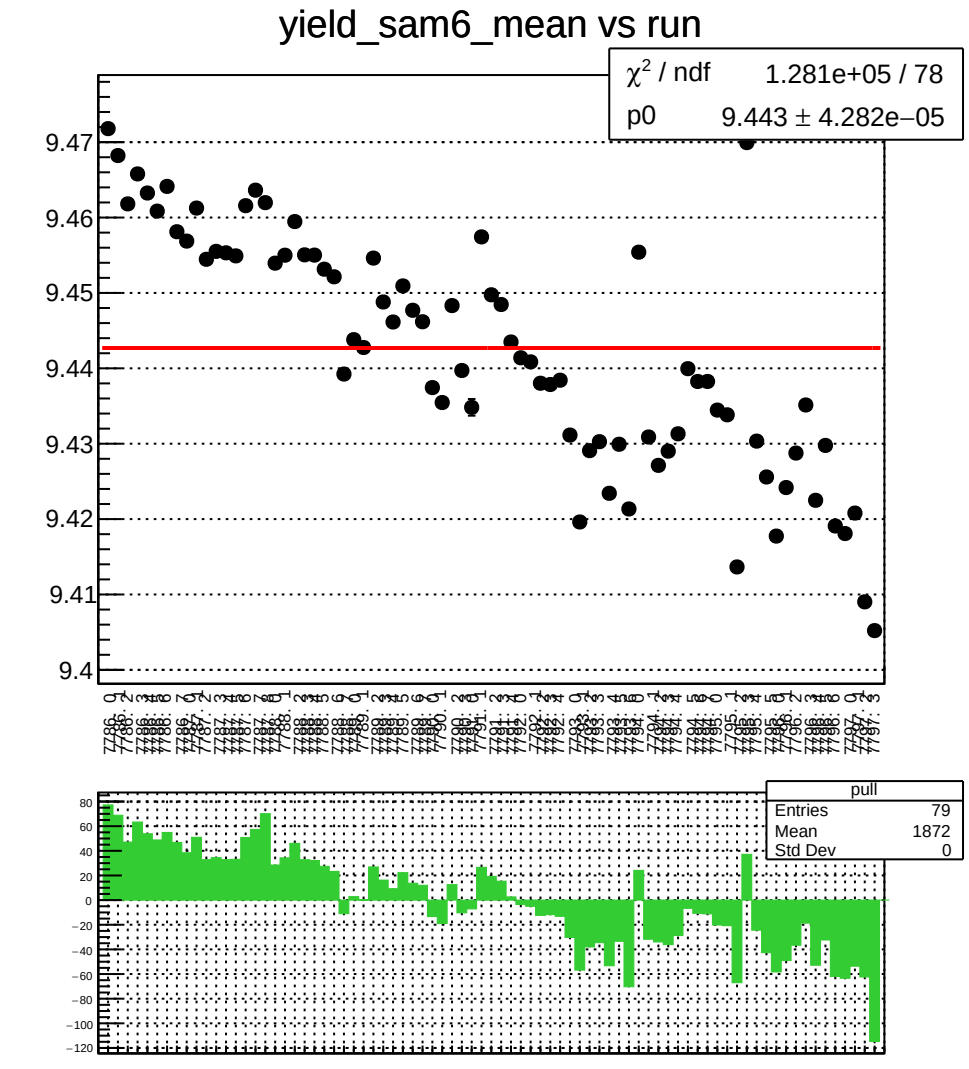

pull1D
Entries 79
Mean −0.3261
Std Dev 4.748
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

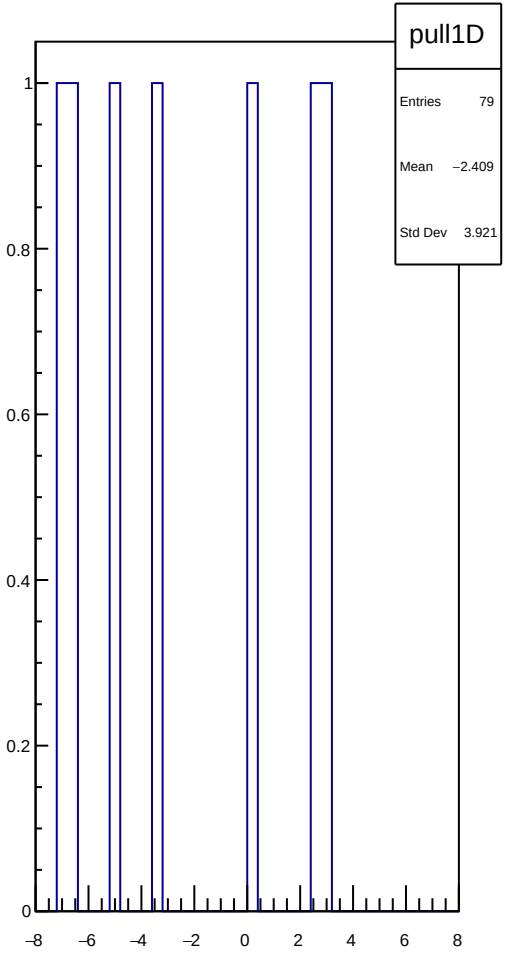

yield_sam4_rms vs run
χ² / ndf 2.724e+04 / 78
p0 0.2155 ± 0.0001756
0.7
0.6
0.5
0.4
0.3
0.2

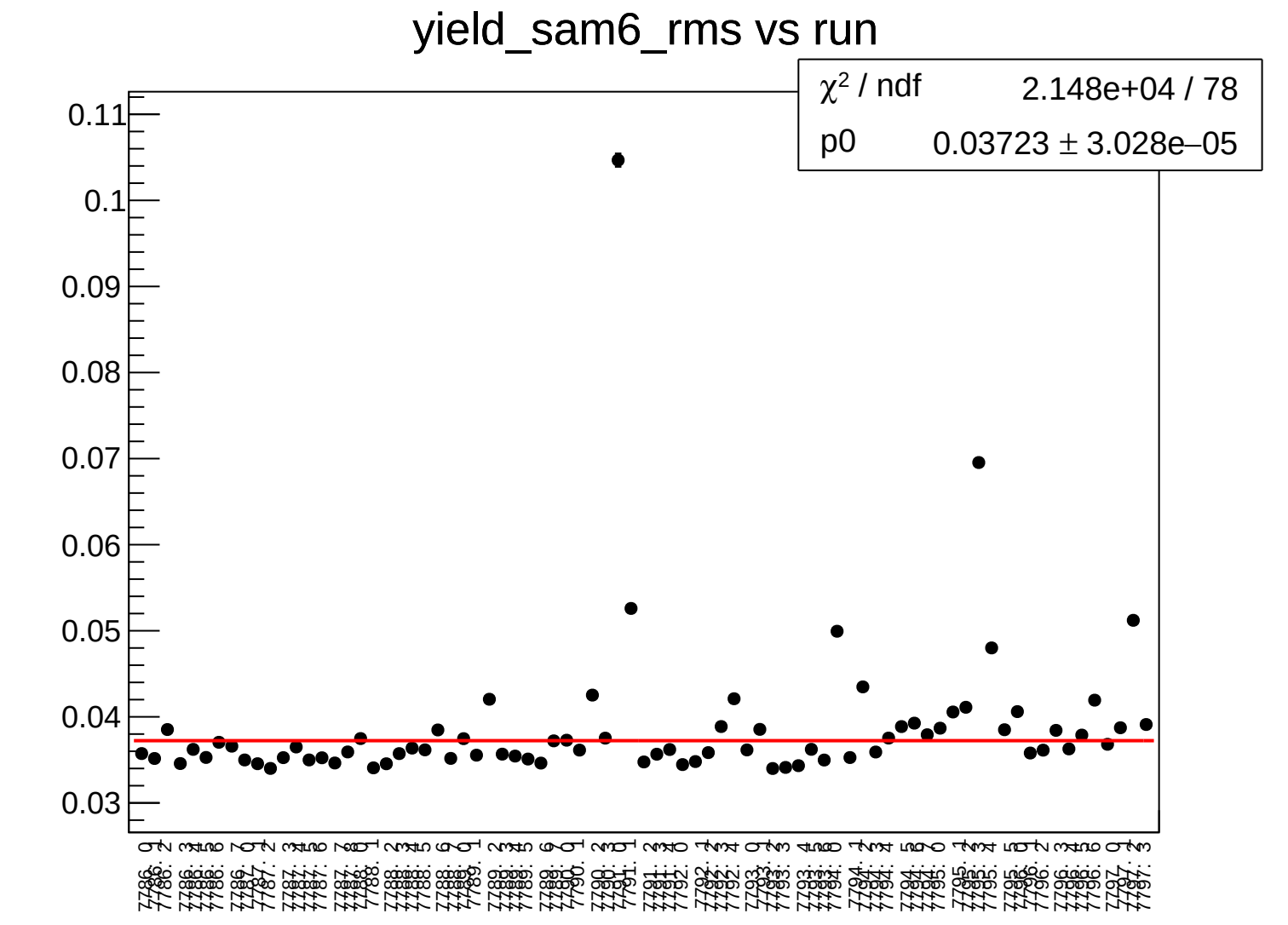

yield_sam5_mean vs run
χ² / ndf 5.608e+05 / 78
p0 17.42 ± 3.899e−05
17.52
17.5
17.48
17.46
17.44
17.42
17.4
17.38
17.36
pull
Entries 79
Mean 335.7
Std Dev 0
150
100
50
0
−50
−100

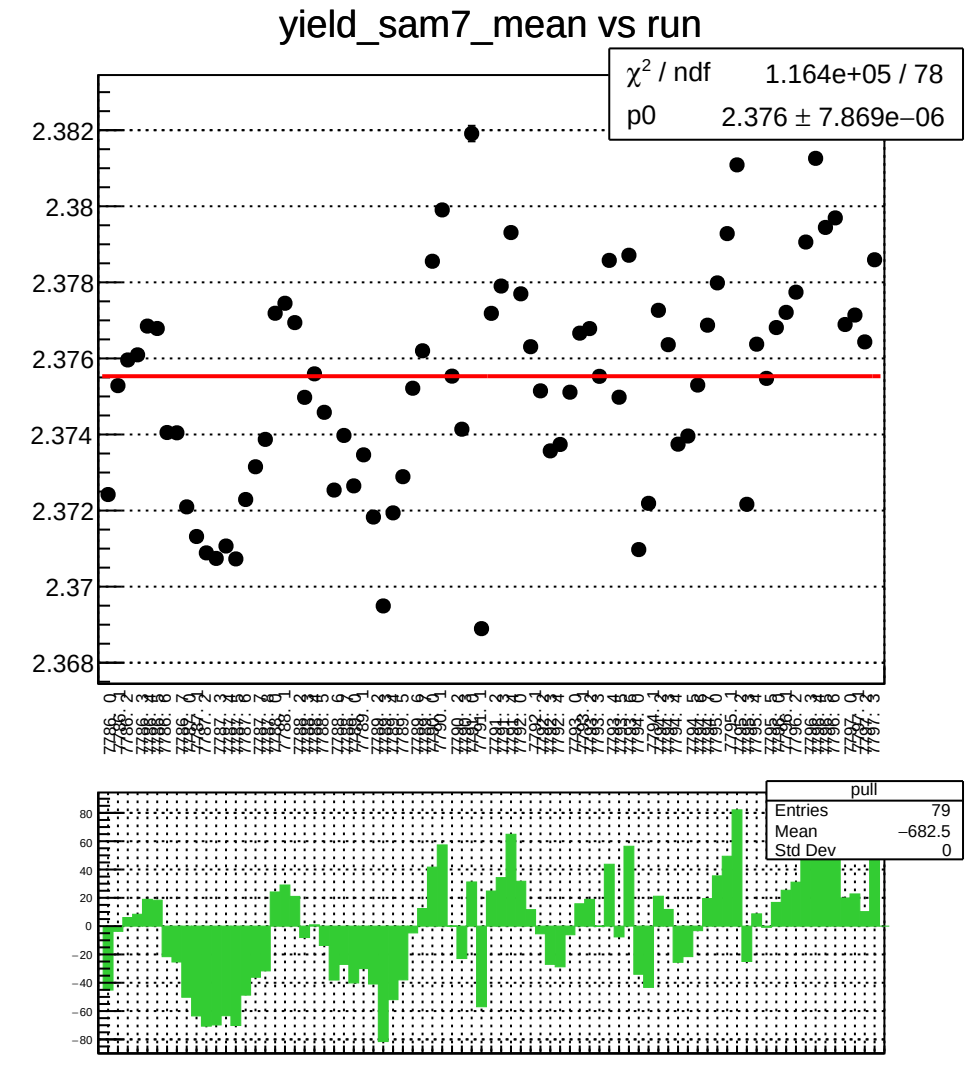

pull1D
Entries 79
Mean −2.068
Std Dev 3.815
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

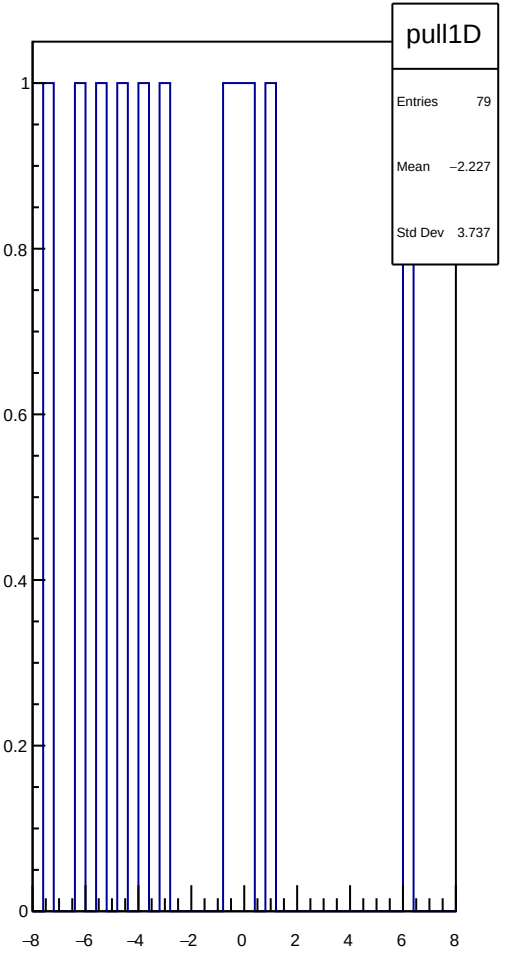

yield_sam5_rms vs run
χ² / ndf 5.654e+04 / 78
p0 0.03351 ± 2.757e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

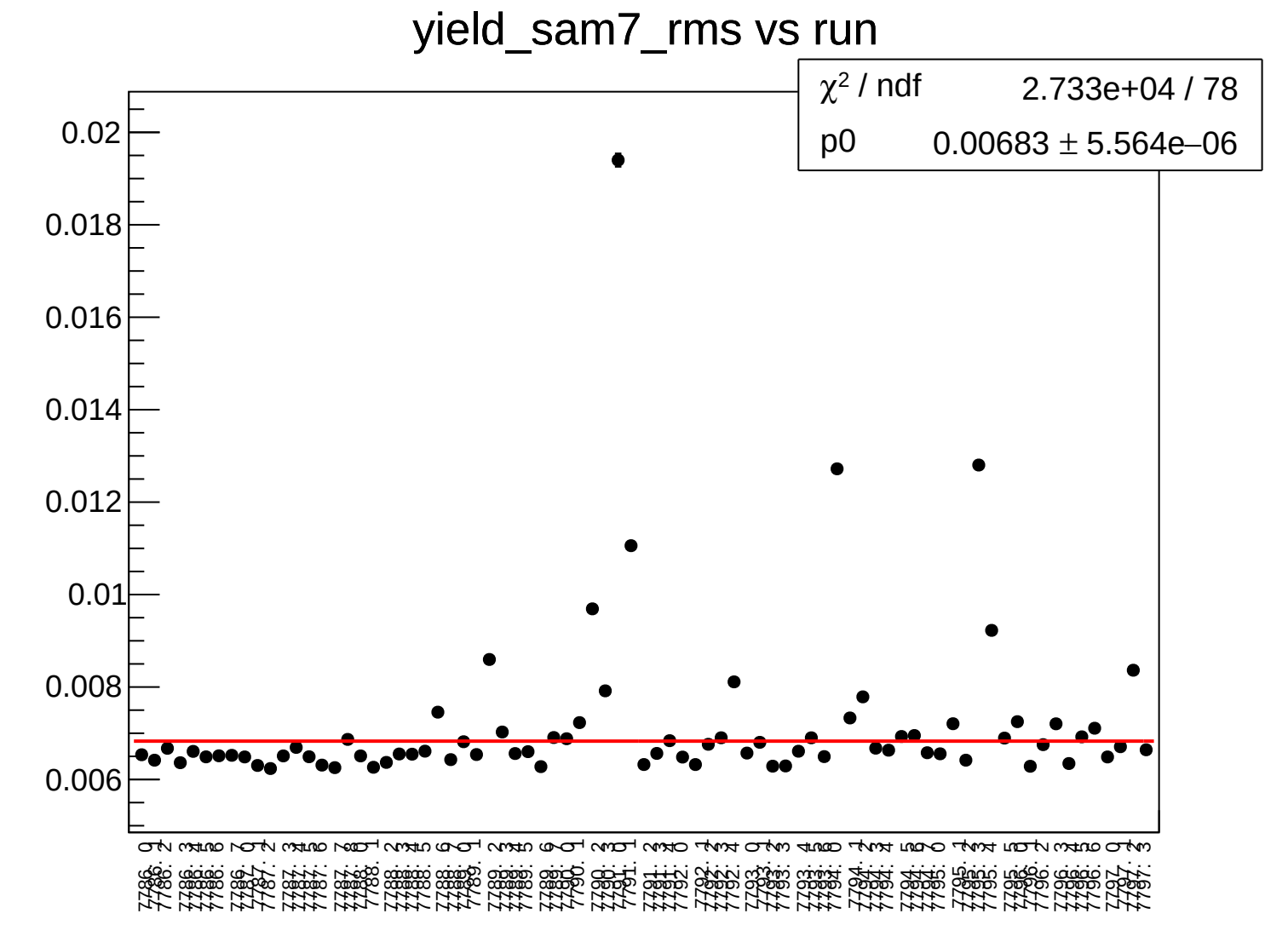

yield_sam6_mean vs run
χ² / ndf 1.281e+05 / 78
p0 9.443 ± 4.282e−05
9.47
9.46
9.45
9.44
9.43
9.42
9.41
9.4
pull
Entries 79
Mean 1872
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

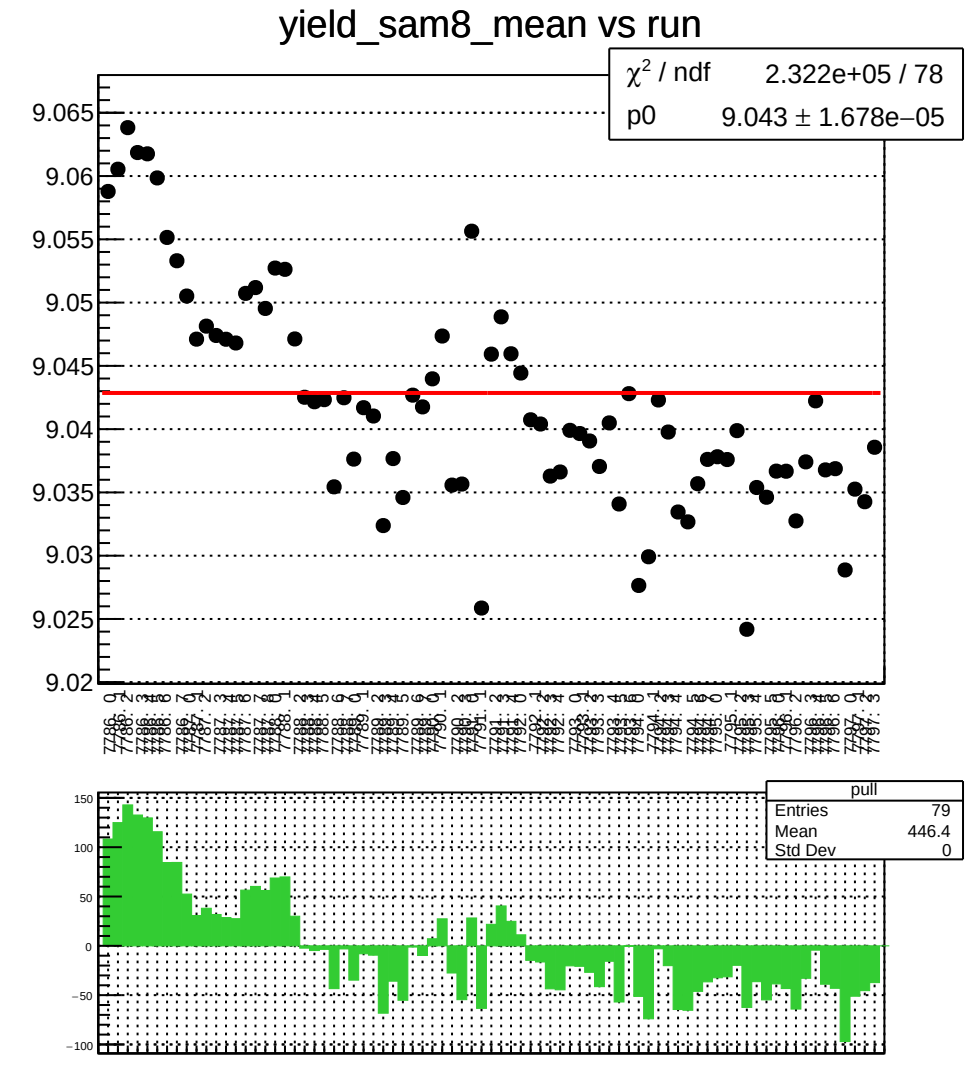

pull1D
Entries 79
Mean −2.409
Std Dev 3.921
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

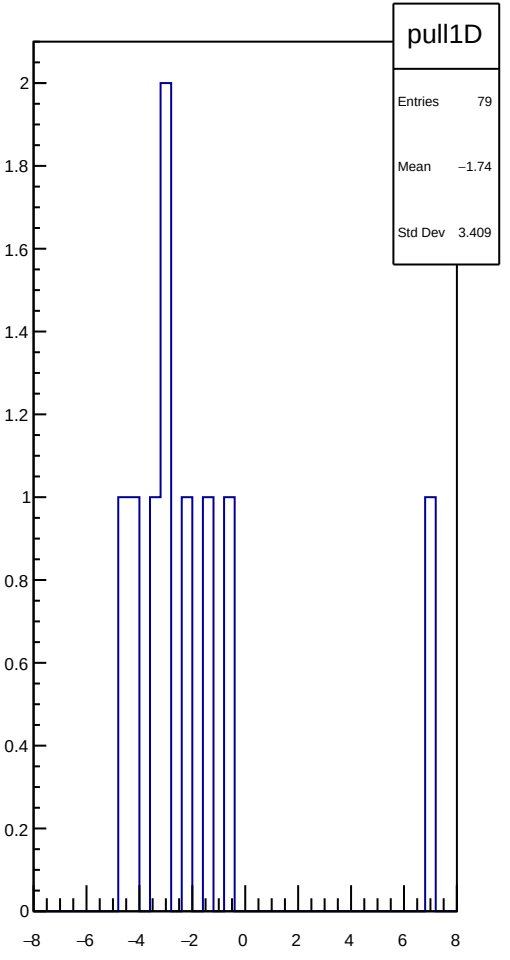

yield_sam6_rms vs run
χ² / ndf 2.148e+04 / 78
p0 0.03723 ± 3.028e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

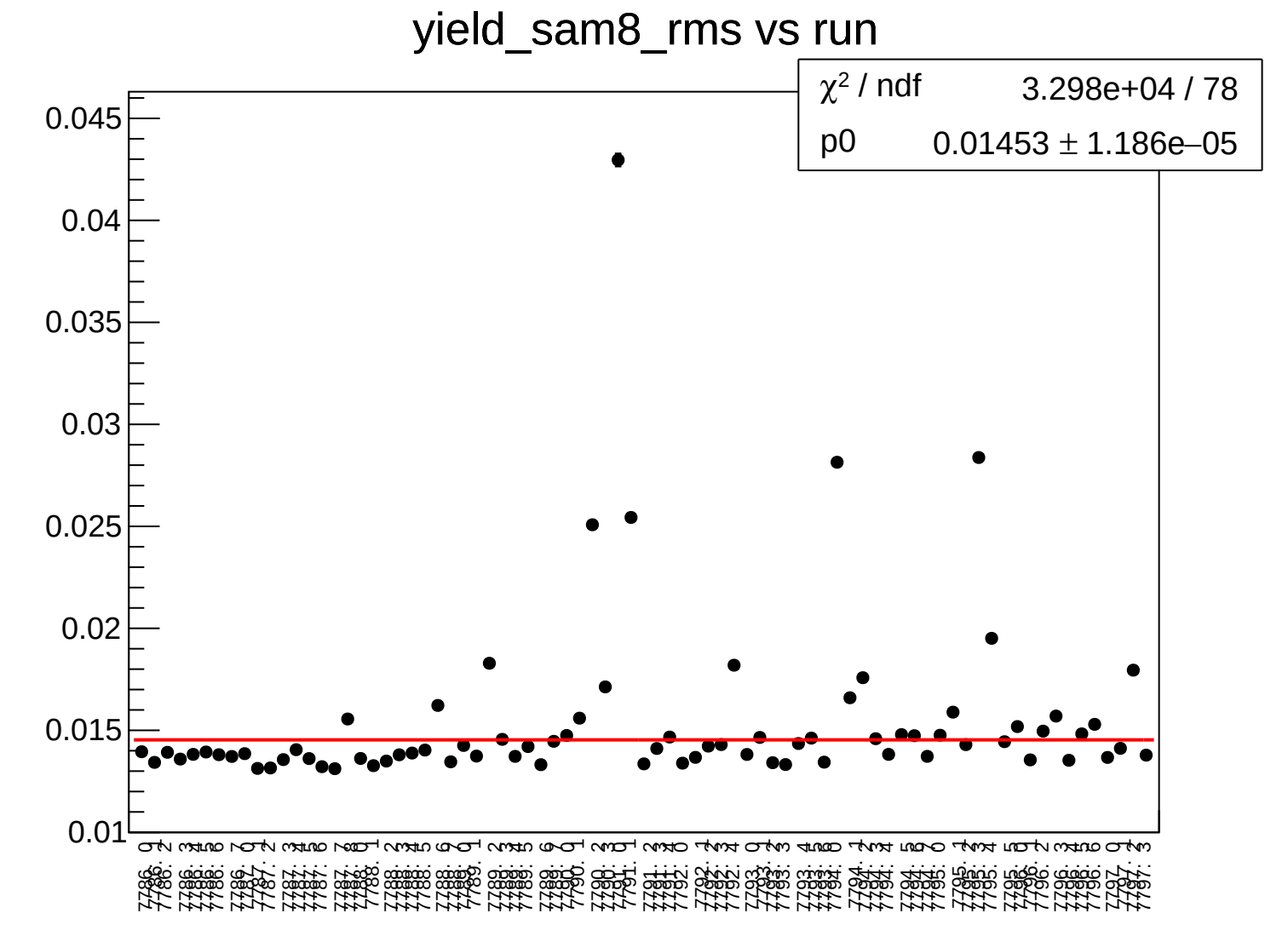

yield_sam7_mean vs run
χ² / ndf 1.164e+05 / 78
p0 2.376 ± 7.869e−06
2.382
2.38
2.378
2.376
2.374
2.372
2.37
2.368
pull
Entries 79
Mean −682.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

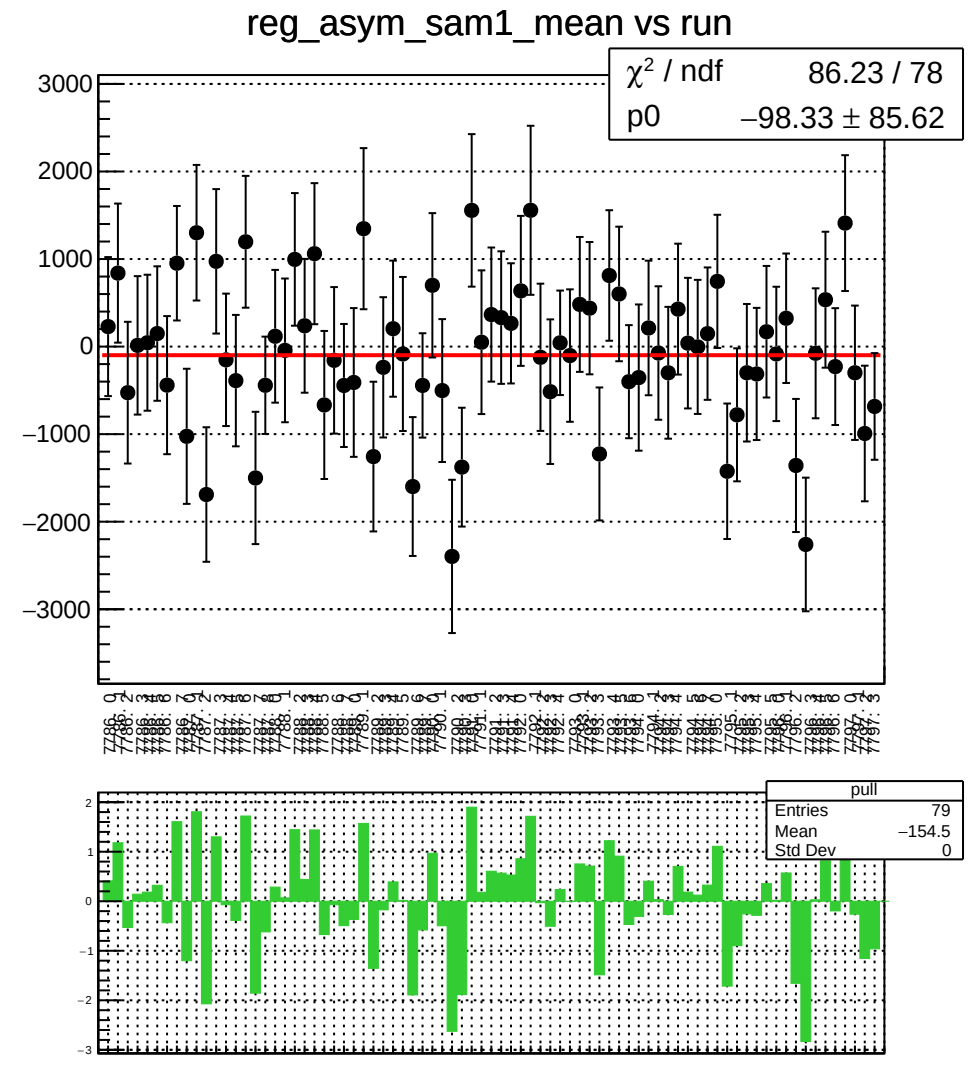

pull1D
Entries 79
Mean −2.227
Std Dev 3.737
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

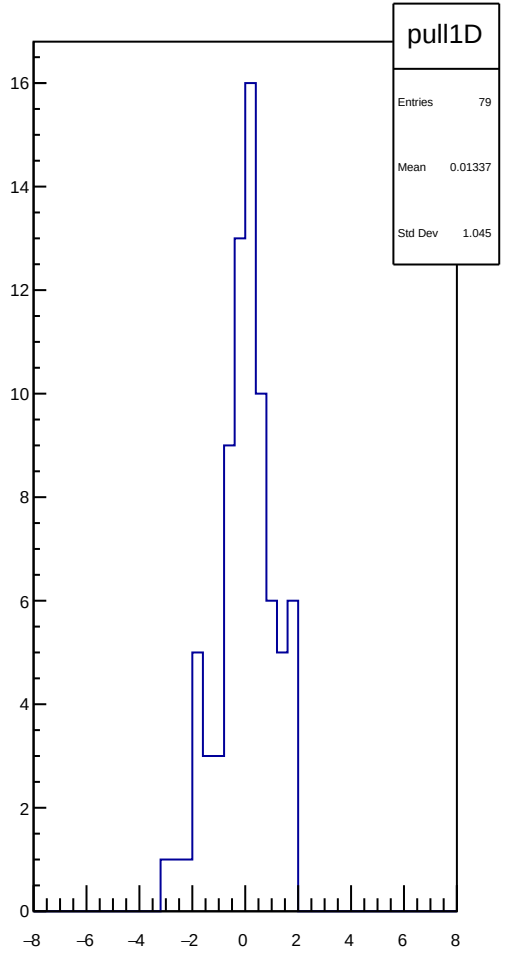

yield_sam7_rms vs run
χ² / ndf 2.733e+04 / 78
p0 0.00683 ± 5.564e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

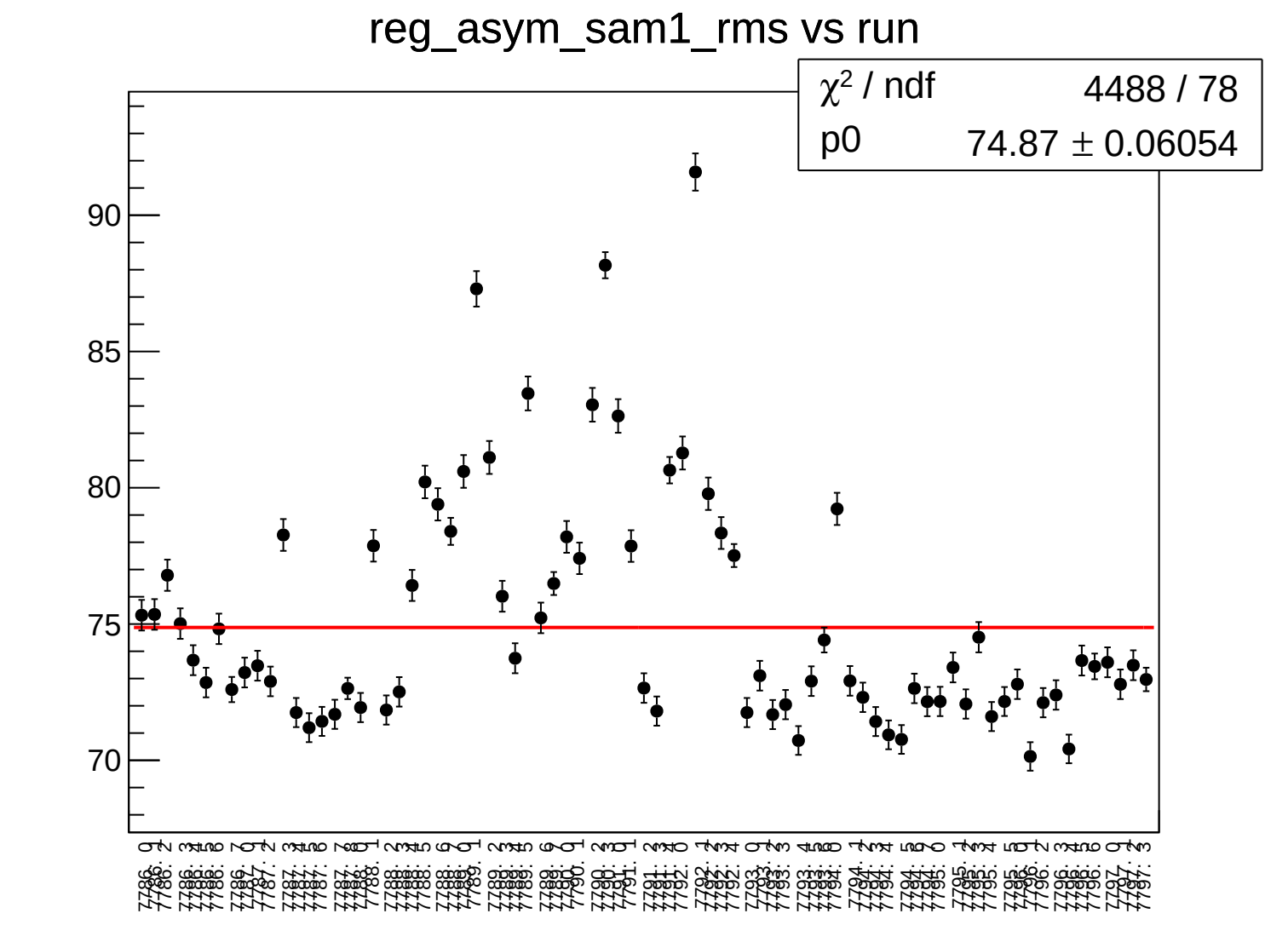

yield_sam8_mean vs run
χ² / ndf 2.322e+05 / 78
p0 9.043 ± 1.678e−05
9.065
9.06
9.055
9.05
9.045
9.04
9.035
9.03
9.025
9.02
pull
Entries 79
Mean 446.4
Std Dev 0
150
100
50
0
−50
−100

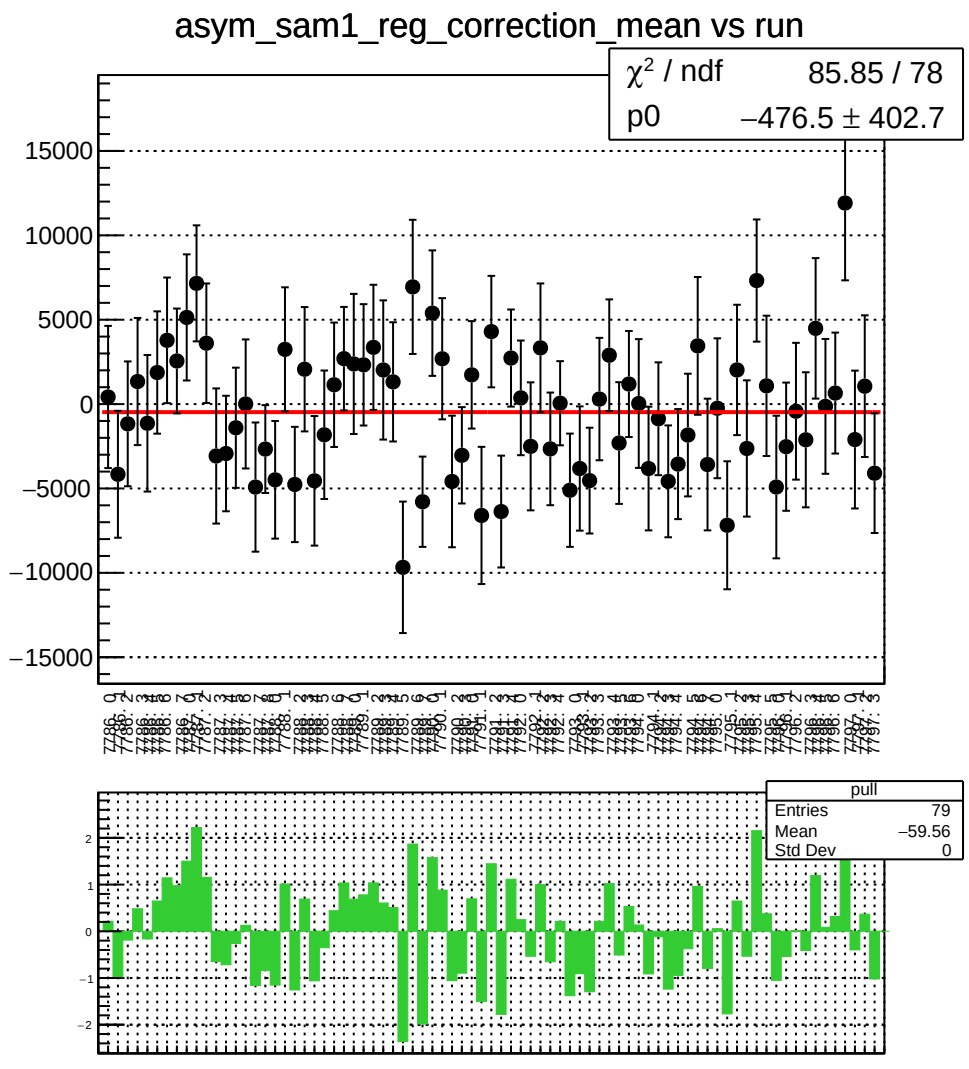

pull1D
Entries 79
Mean −1.74
Std Dev 3.409
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

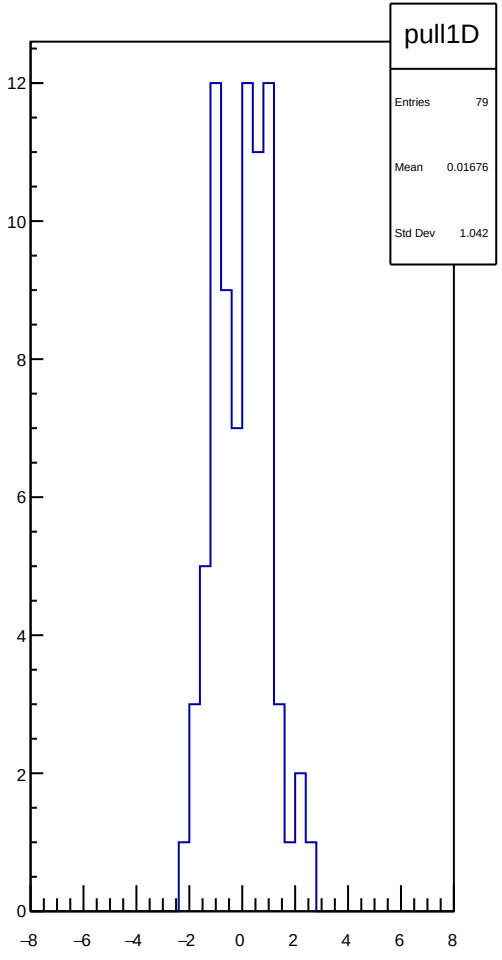

yield_sam8_rms vs run
χ² / ndf 3.298e+04 / 78
p0 0.01453 ± 1.186e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

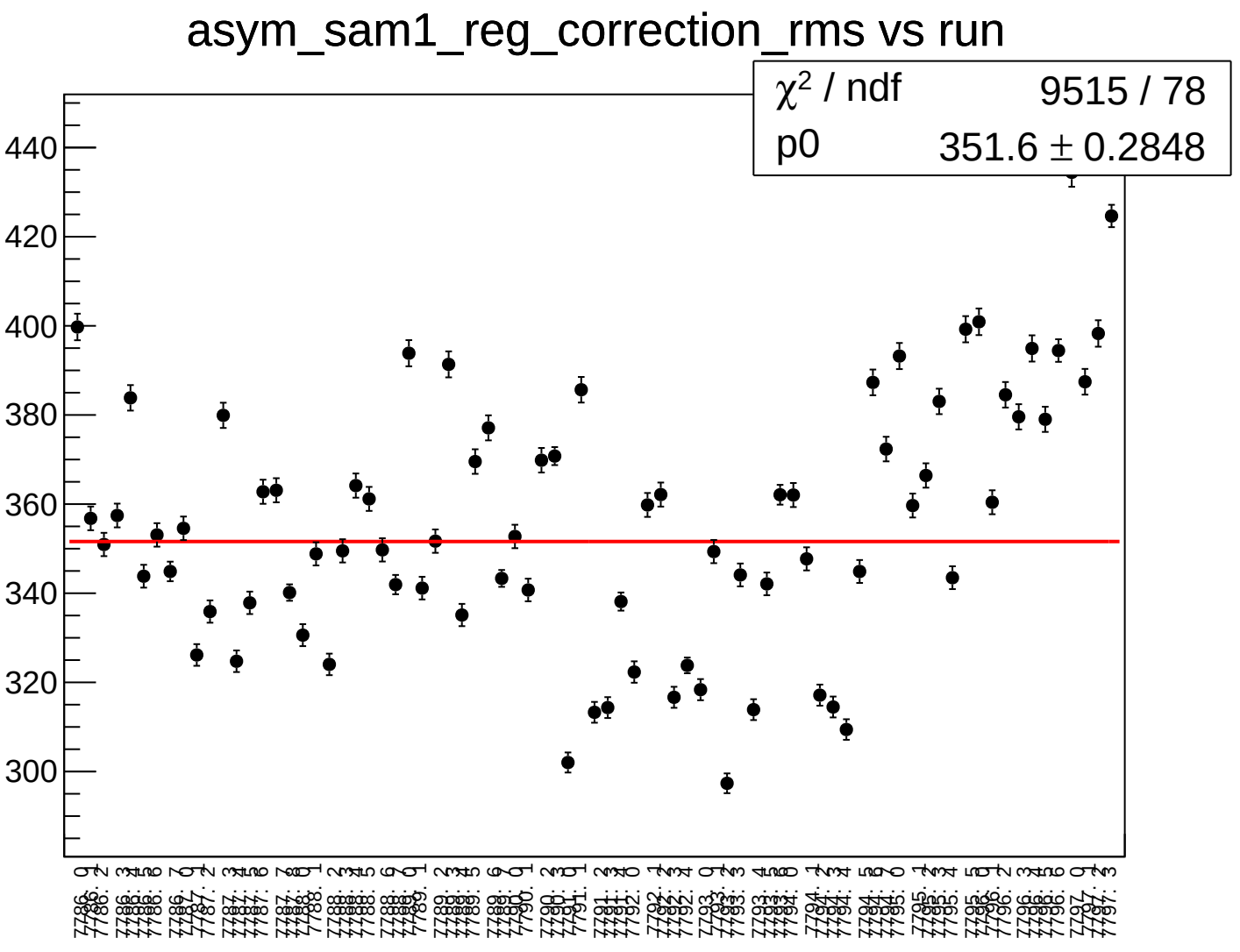

reg_asym_sam1_mean vs run
χ² / ndf 86.23 / 78
p0 −98.33 ± 85.62
pull
Entries 79
Mean −154.5
Std Dev 0

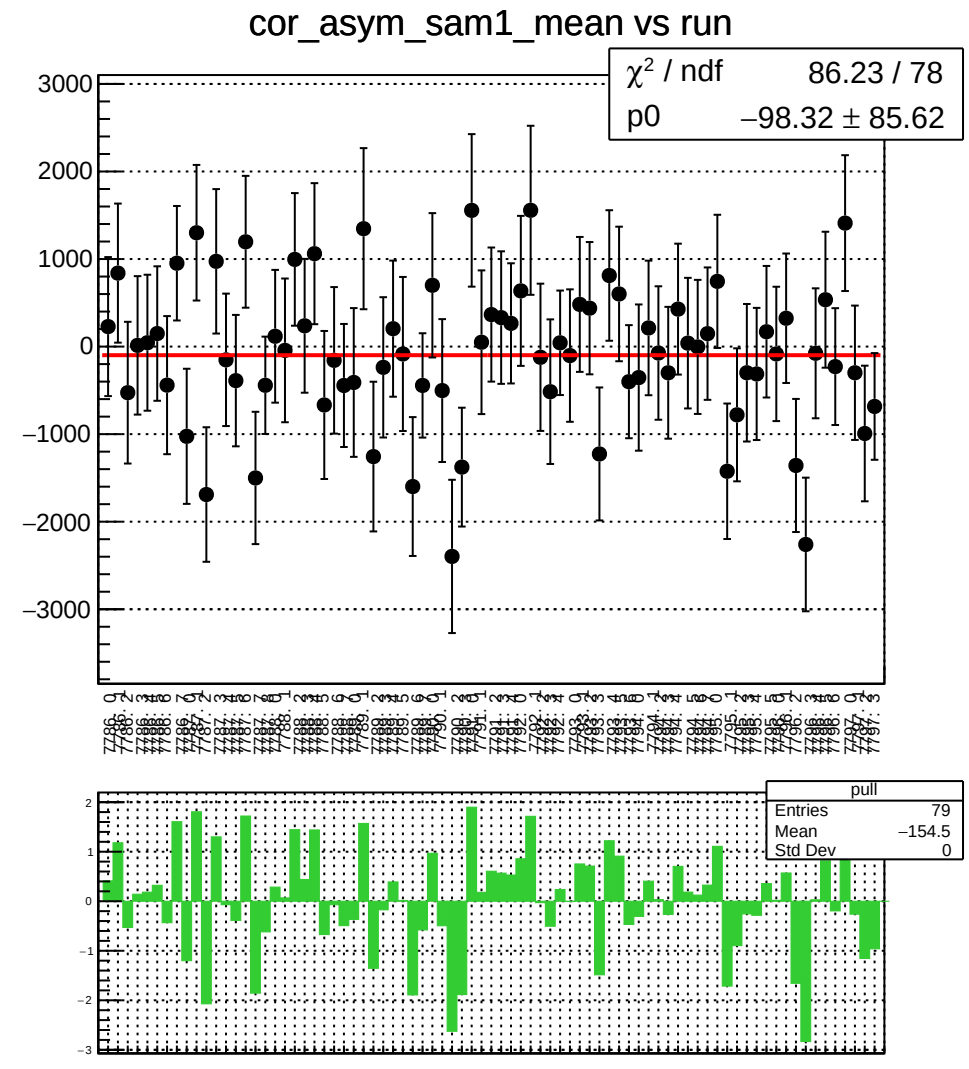

pull1D
Entries 79
Mean 0.01337
Std Dev 1.045

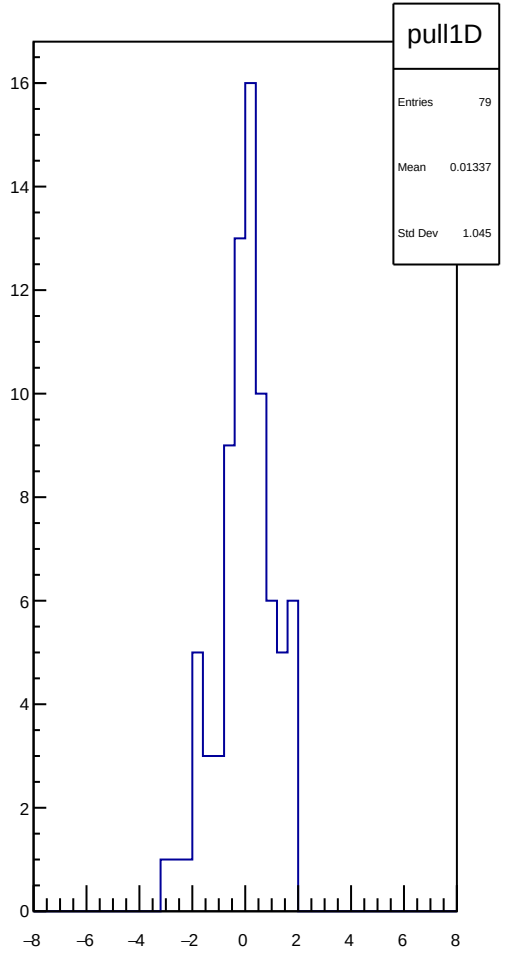

reg_asym_sam1_rms vs run
χ^2 / ndf 4488 / 78
p0 74.87 ± 0.06054
90
85
80
75
70

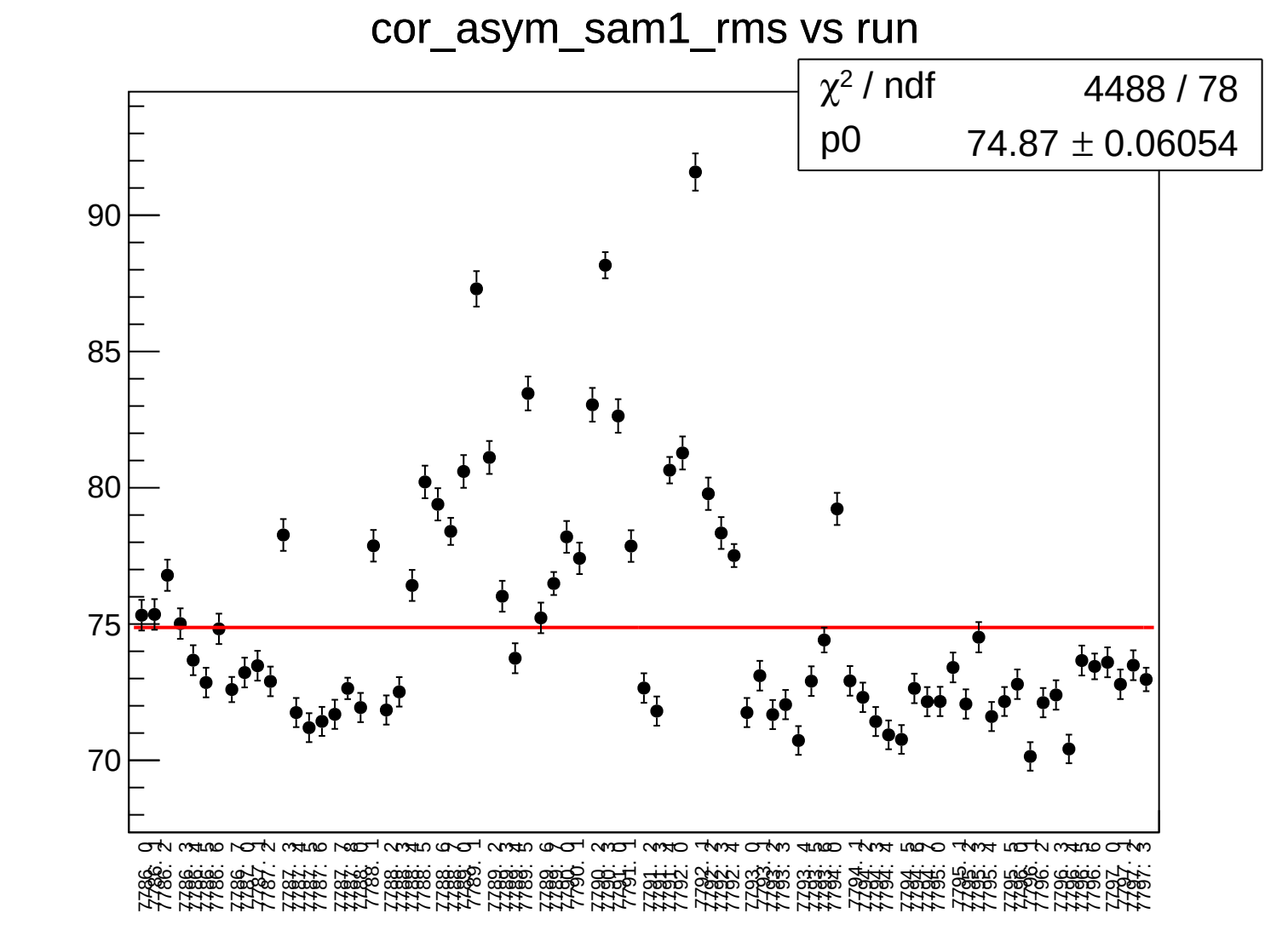

asym_sam1_reg_correction_mean vs run
χ² / ndf 85.85 / 78
p0 −476.5 ± 402.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean −59.56
Std Dev 0
2
1
0
−1
−2

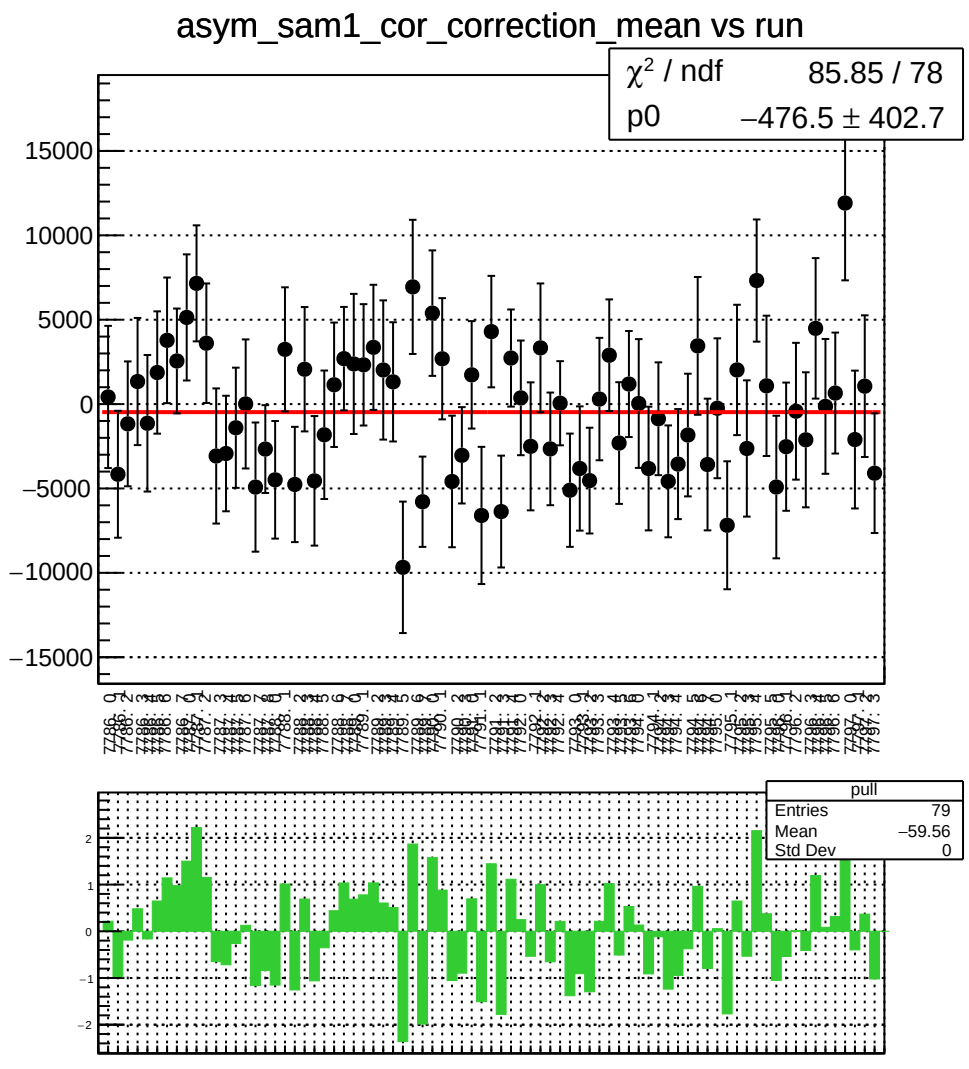

pull1D
Entries 79
Mean 0.01676
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

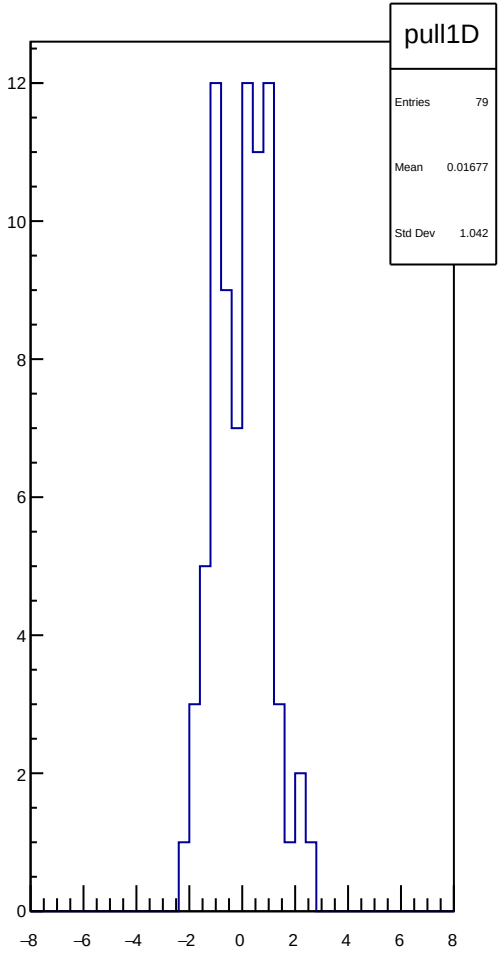

asym_sam1_reg_correction_rms vs run
χ^2 / ndf 9515 / 78
p0 351.6 ± 0.2848
440
420
400
380
360
340
320
300

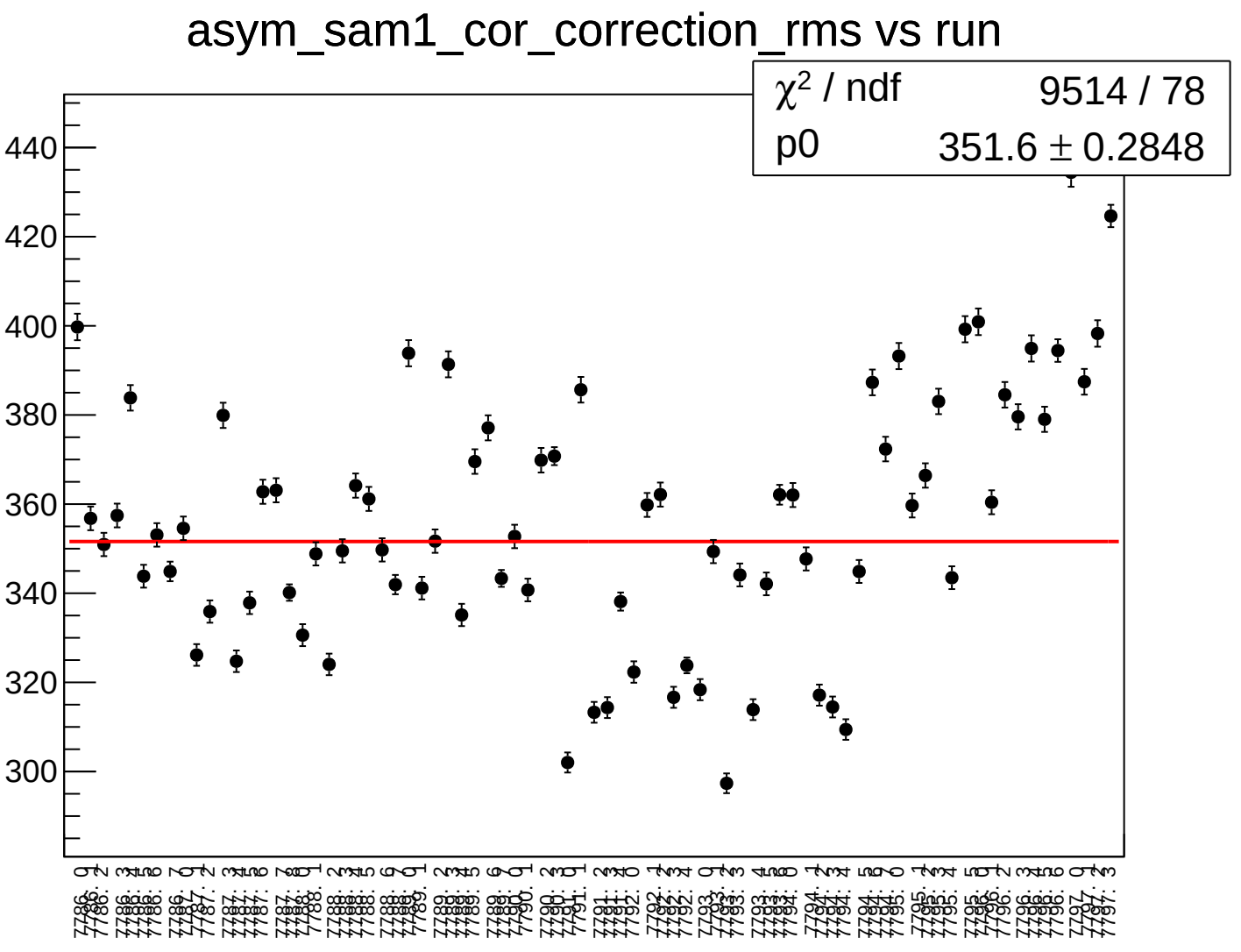

cor_asym_sam1_mean vs run
χ² / ndf 86.23 / 78
p0 −98.32 ± 85.62
pull
Entries 79
Mean −154.5
Std Dev 0

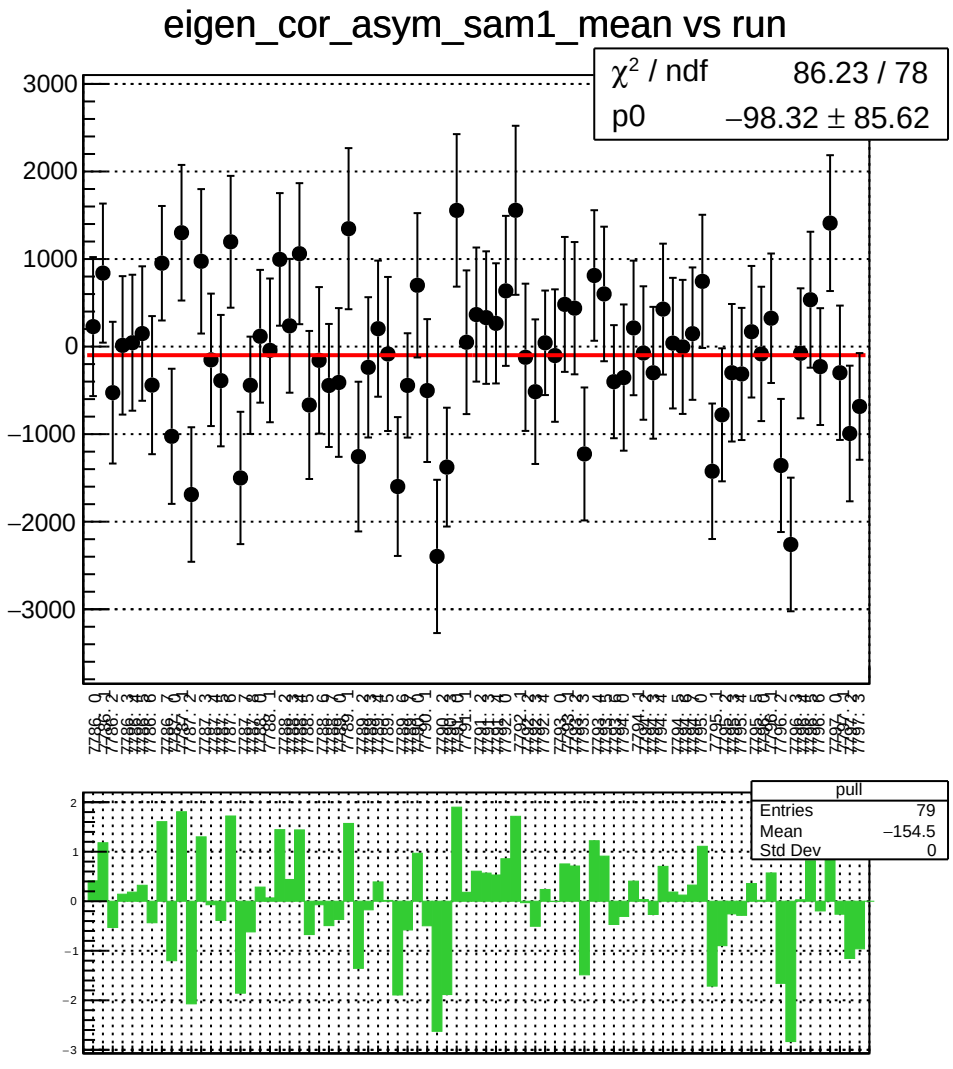

pull1D
Entries 79
Mean 0.01337
Std Dev 1.045

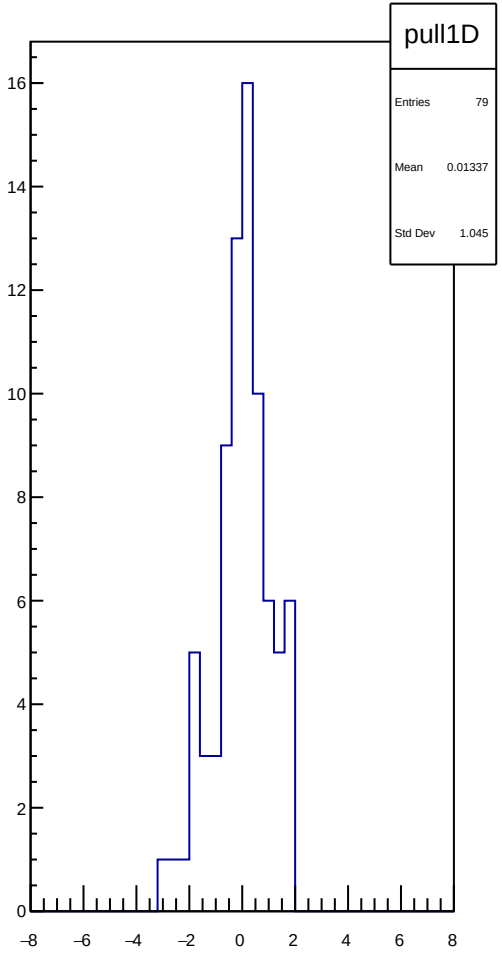

cor_asym_sam1_rms vs run
χ^2 / ndf 4488 / 78
p0 74.87 ± 0.06054
90
85
80
75
70

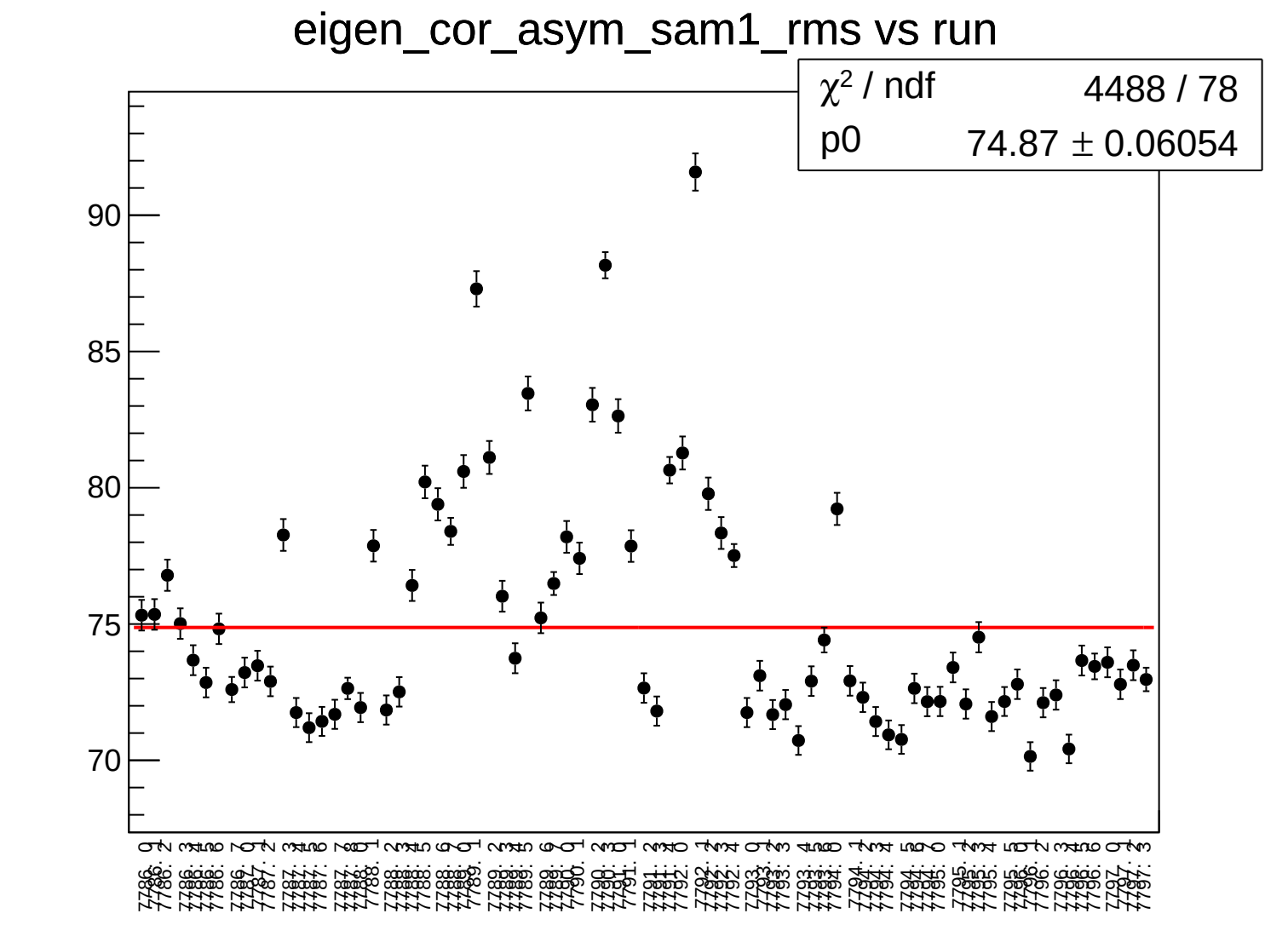

asym_sam1_cor_correction_mean vs run
χ² / ndf 85.85 / 78
p0 −476.5 ± 402.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean −59.56
Std Dev 0
2
1
0
−1
−2

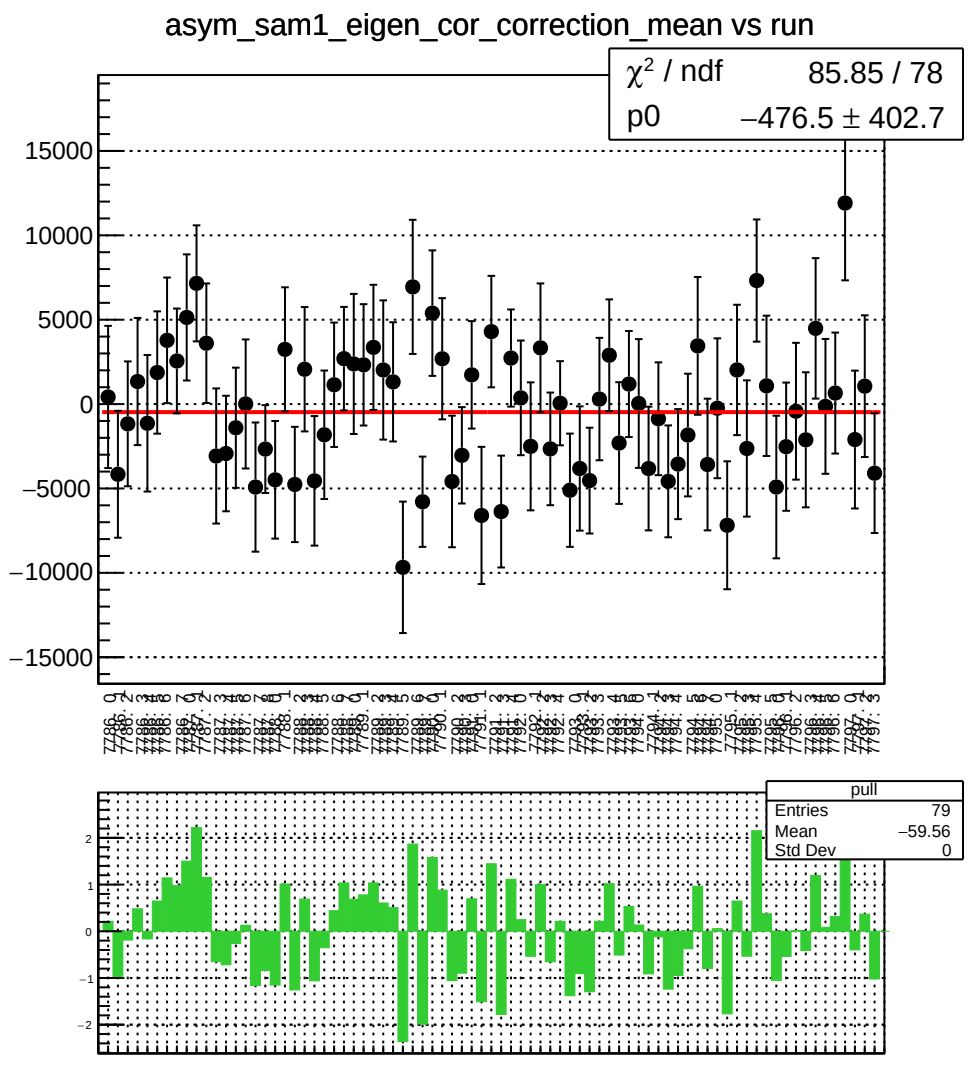

pull1D
Entries 79
Mean 0.01677
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

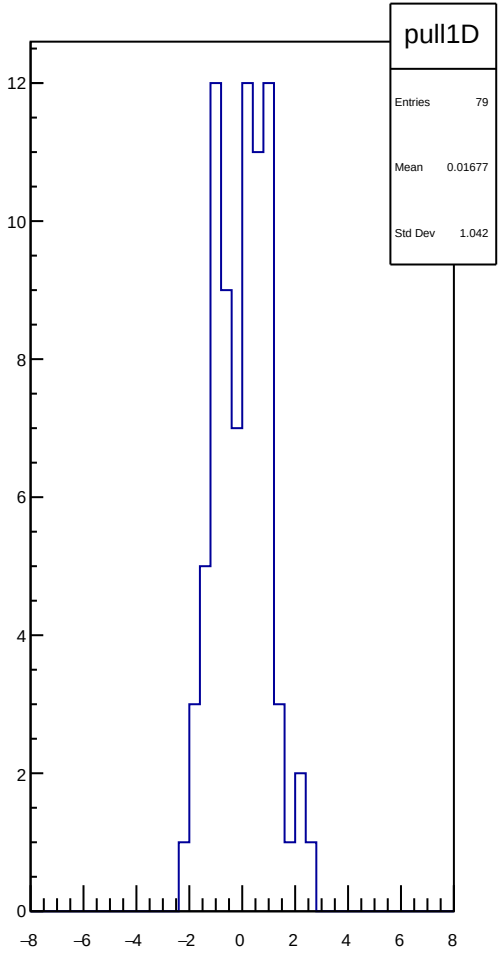

asym_sam1_cor_correction_rms vs run
χ² / ndf 9514 / 78
p0 351.6 ± 0.2848
440
420
400
380
360
340
320
300

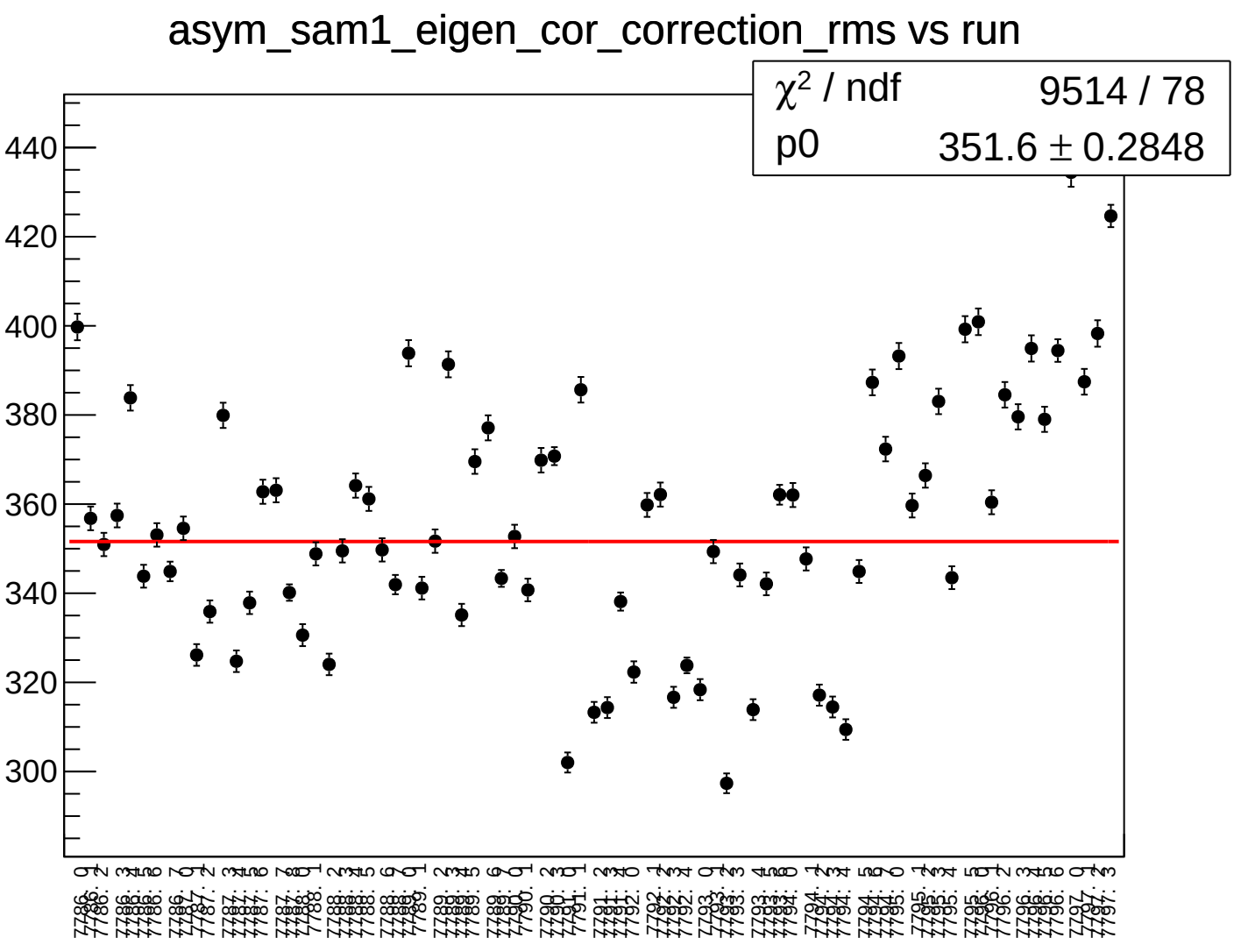

eigen_cor_asym_sam1_mean vs run
χ² / ndf 86.23 / 78
p0 −98.32 ± 85.62
pull
Entries 79
Mean −154.5
Std Dev 0

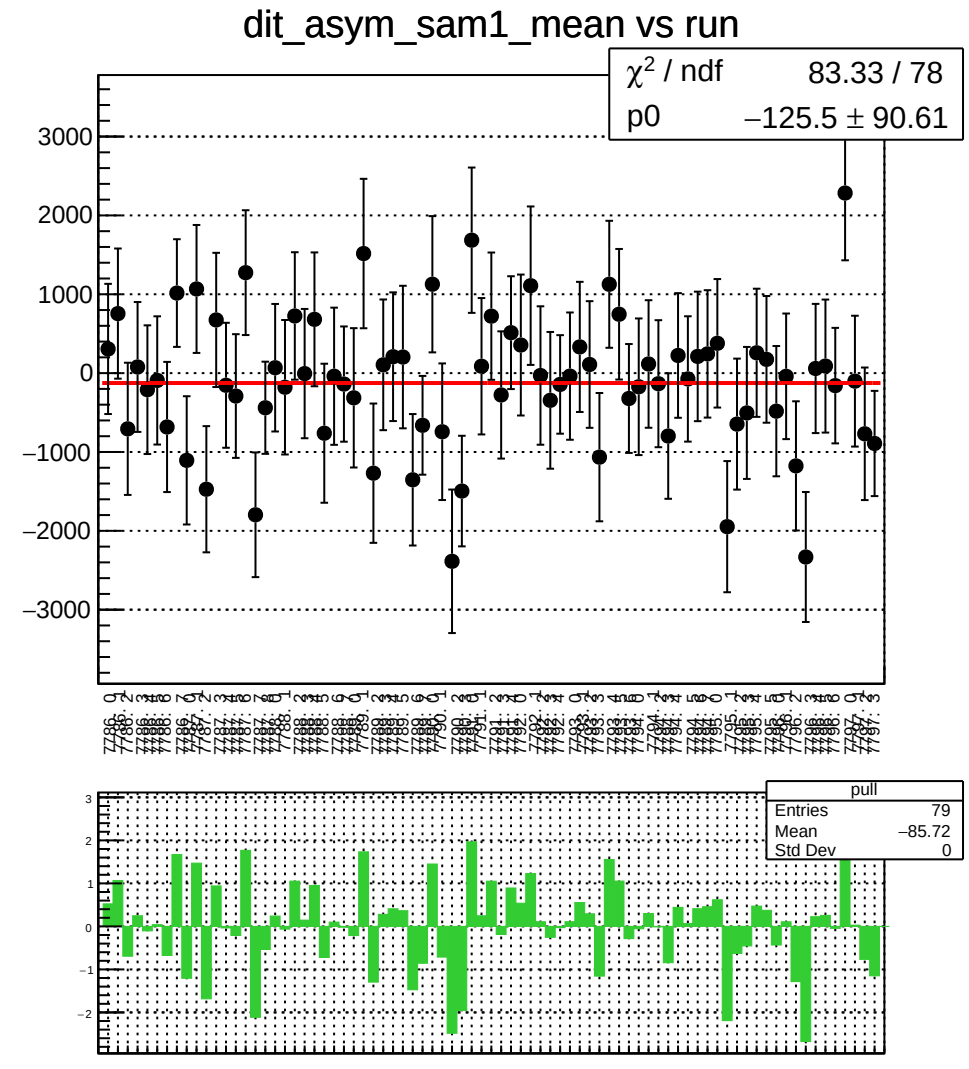

pull1D
Entries 79
Mean 0.01337
Std Dev 1.045

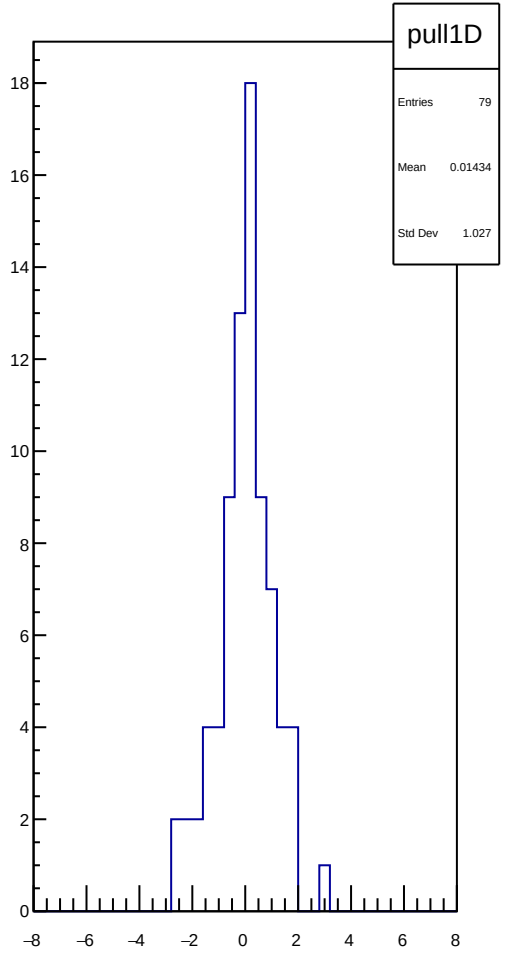

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 4488 / 78
p0 74.87 ± 0.06054
90
85
80
75
70

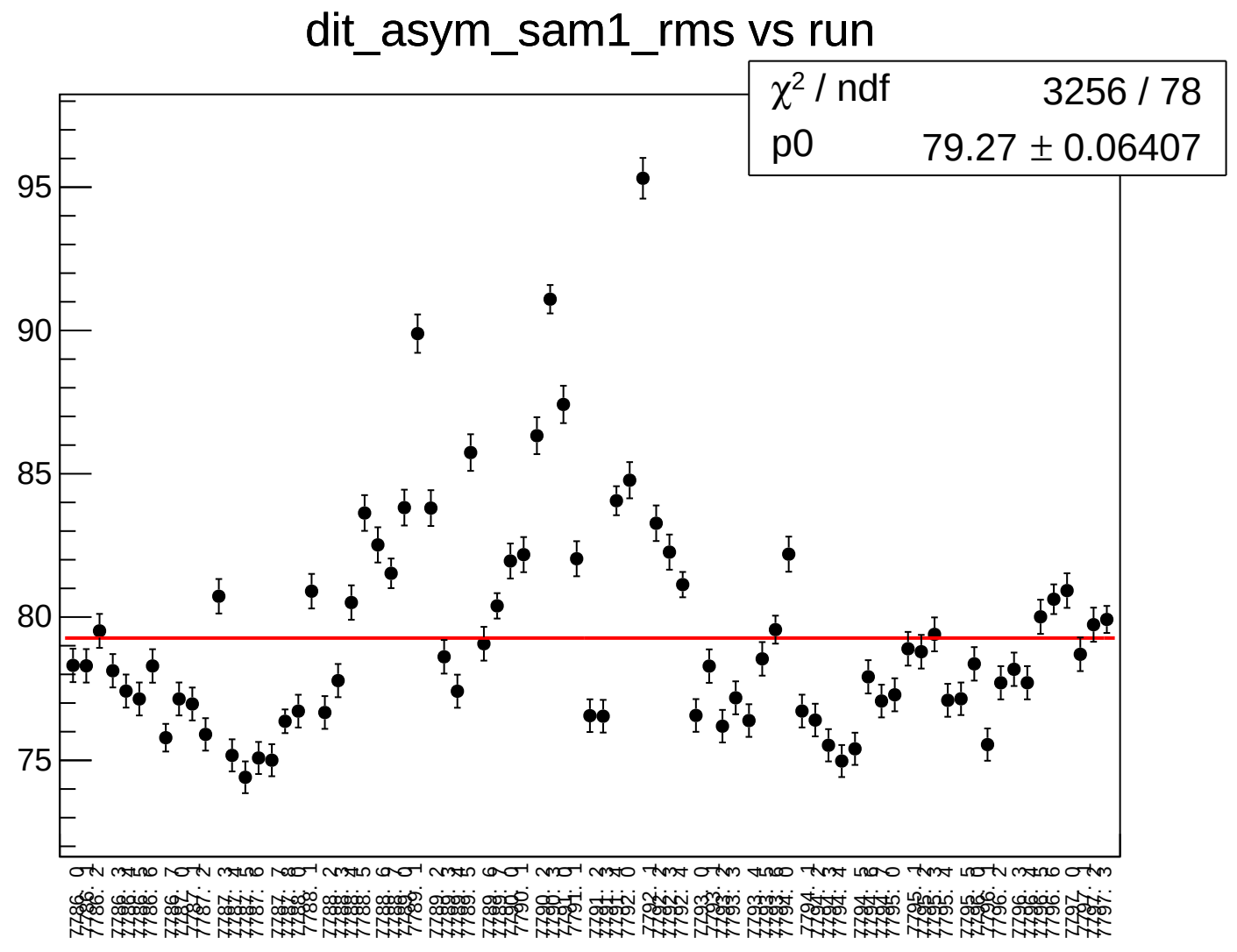

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 85.85 / 78
p0 −476.5 ± 402.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean −59.56
Std Dev 0
2
1
0
−1
−2

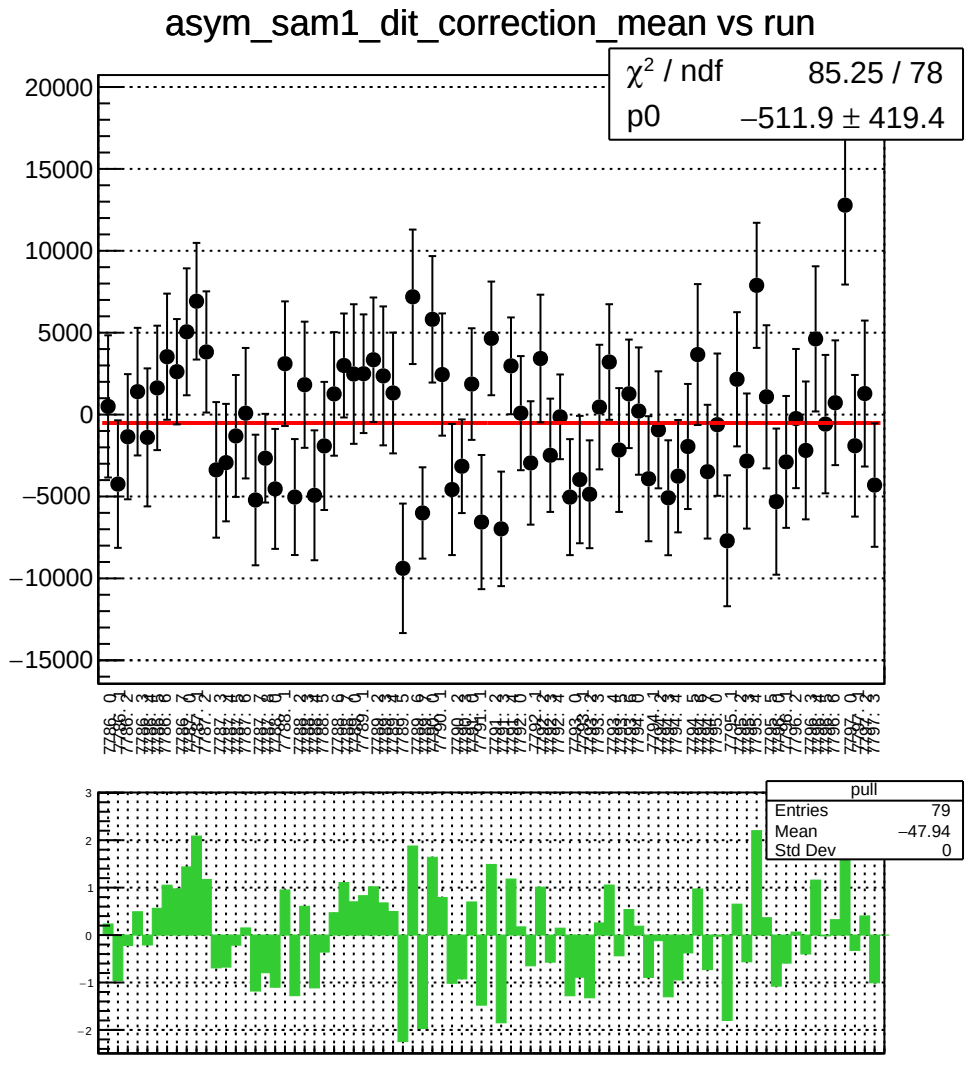

pull1D
Entries 79
Mean 0.01677
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

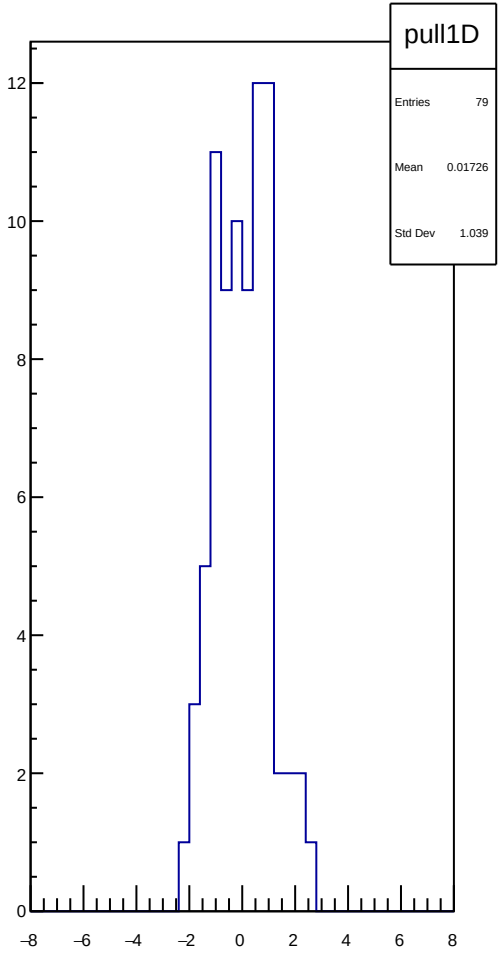

asym_sam1_eigen_cor_correction_rms vs run
χ^2 / ndf 9514 / 78
p0 351.6 ± 0.2848
440
420
400
380
360
340
320
300

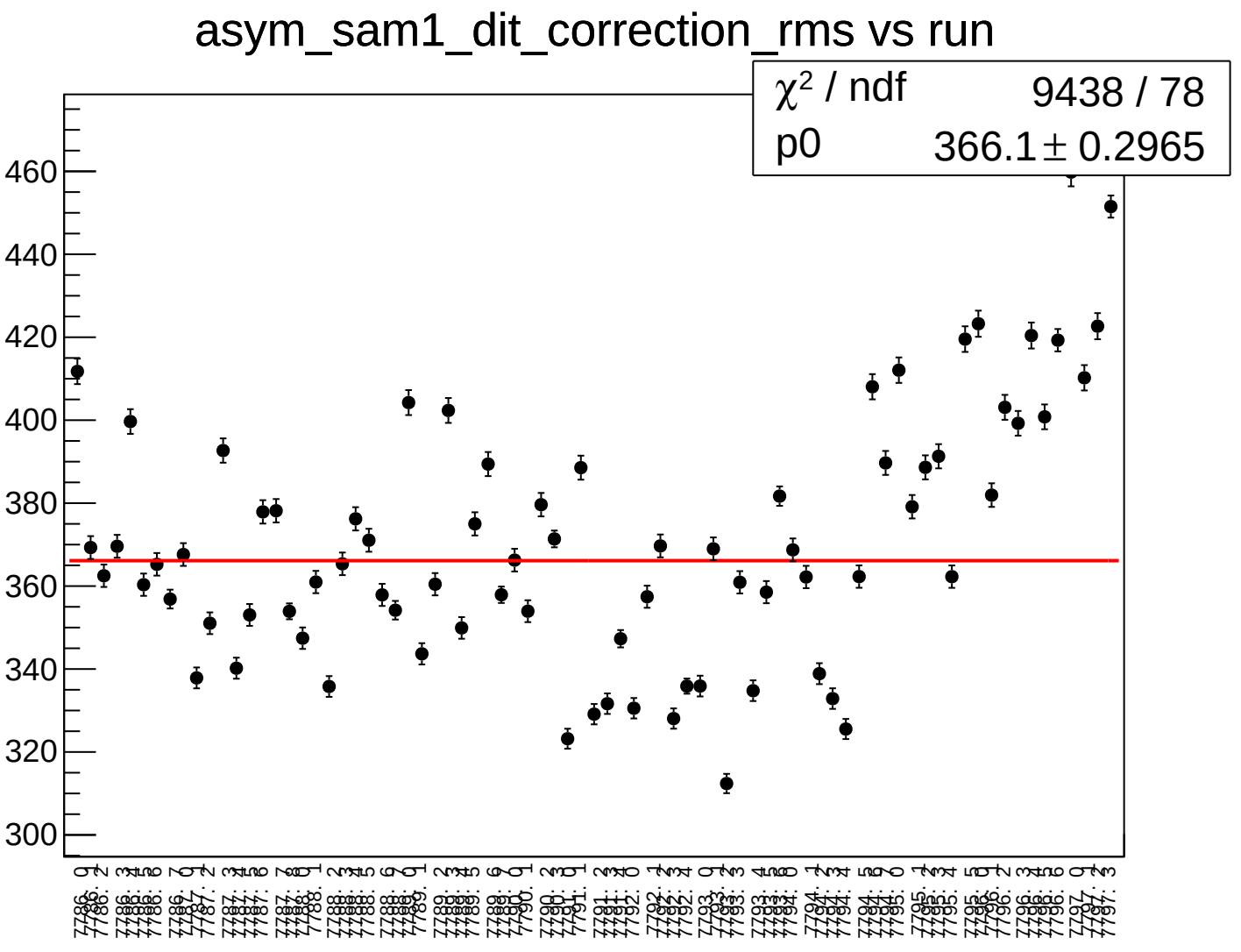

dit_asym_sam1_mean vs run
χ² / ndf 83.33 / 78
p0 −125.5 ± 90.61
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 79
Mean −85.72
Std Dev 0
3
2
1
0
−1
−2

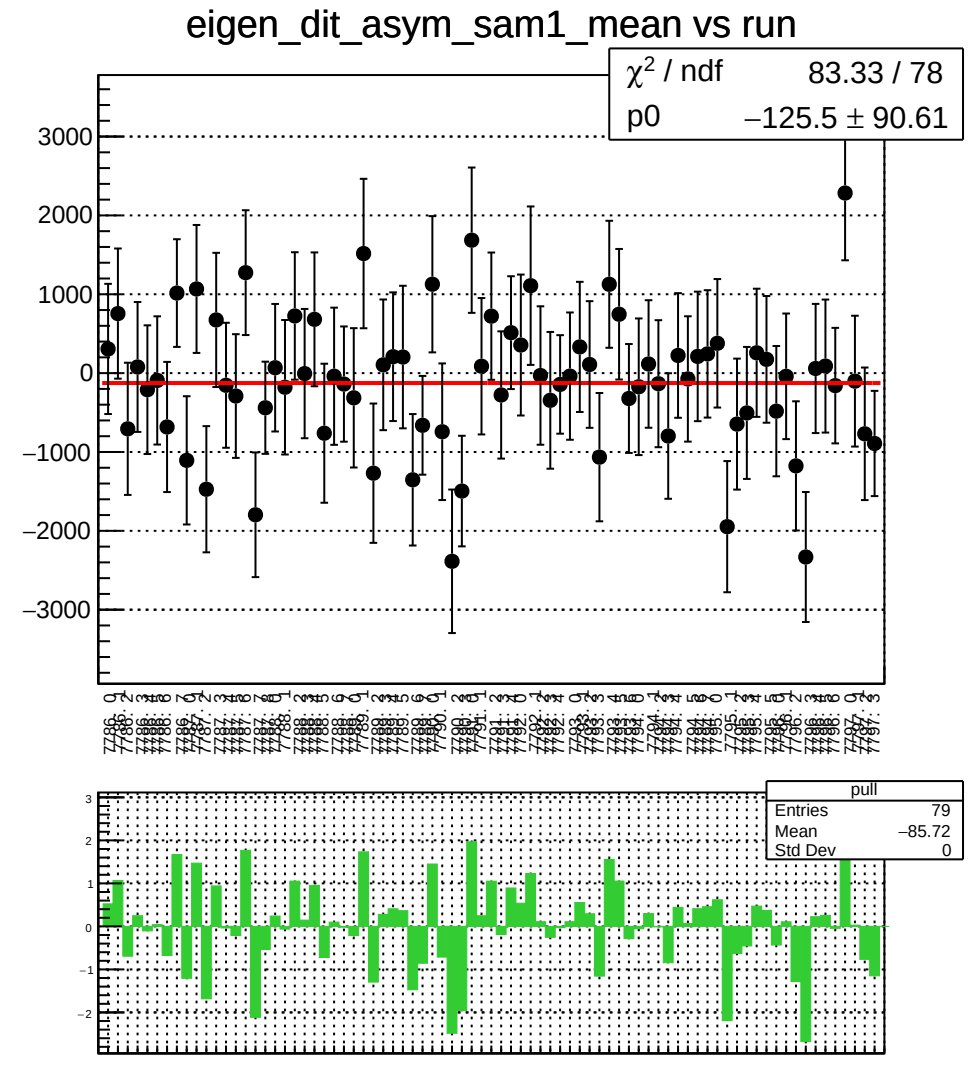

pull1D
Entries 79
Mean 0.01434
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

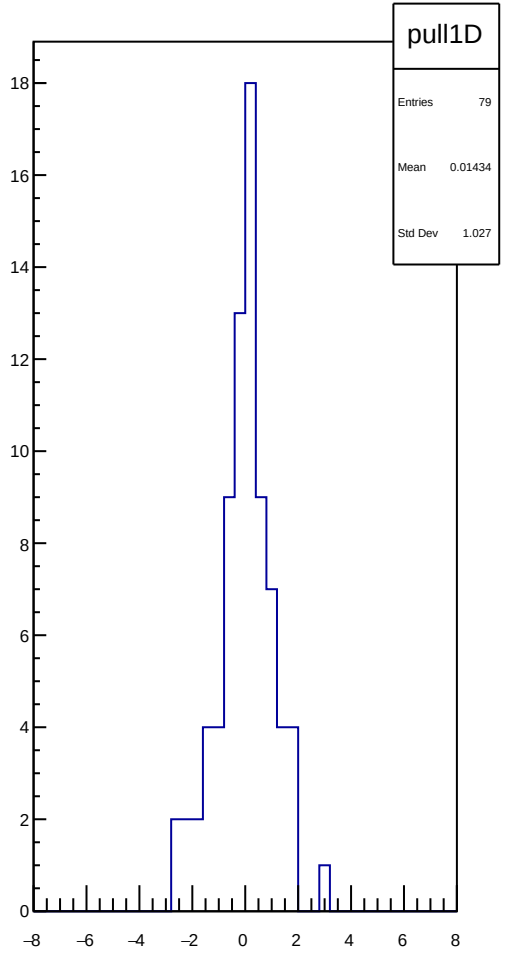

dit_asym_sam1_rms vs run
χ² / ndf 3256 / 78
p0 79.27 ± 0.06407
95
90
85
80
75

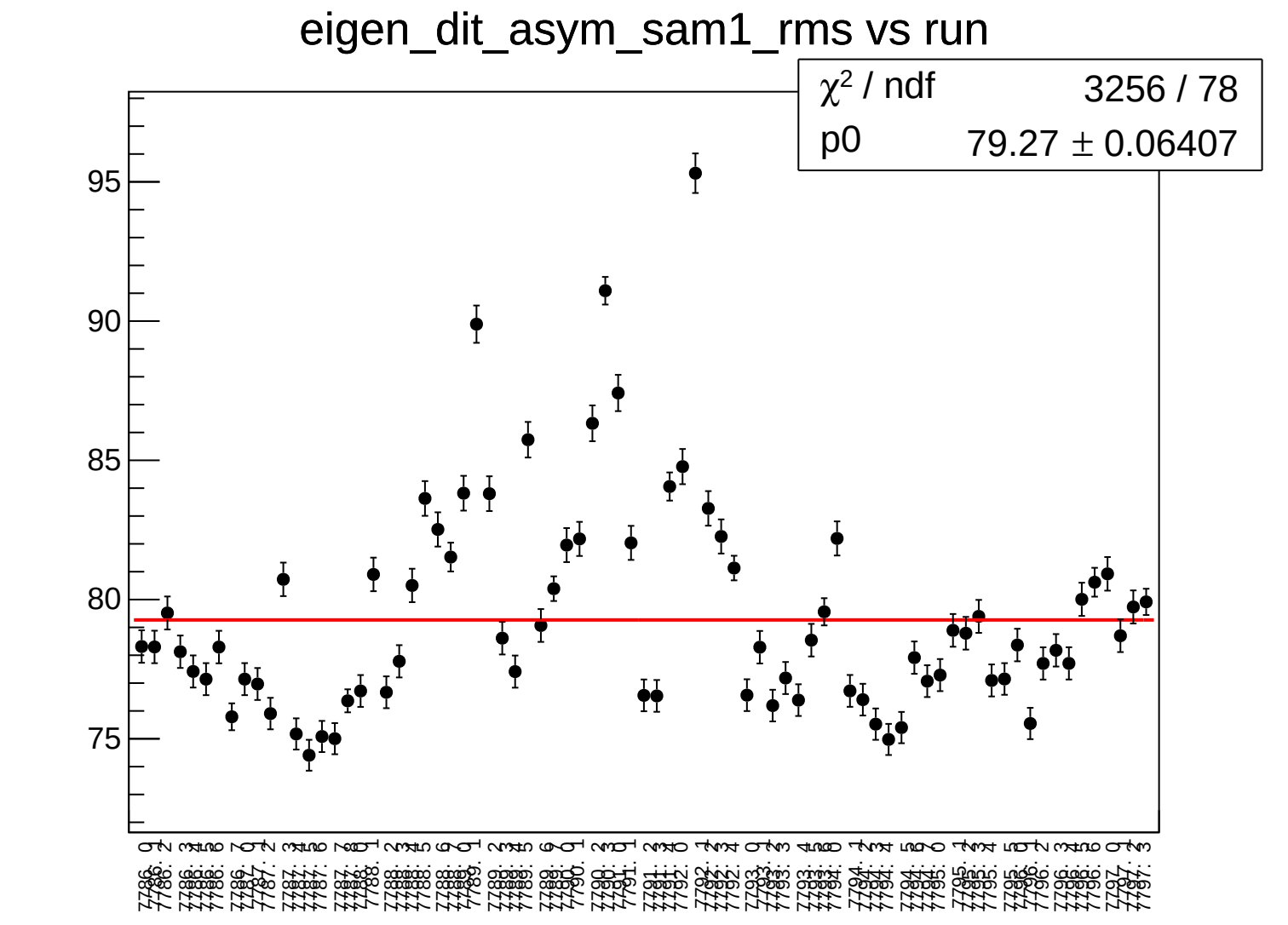

asym_sam1_dit_correction_mean vs run
χ² / ndf 85.25 / 78
p0 −511.9 ± 419.4
pull
Entries 79
Mean −47.94
Std Dev 0

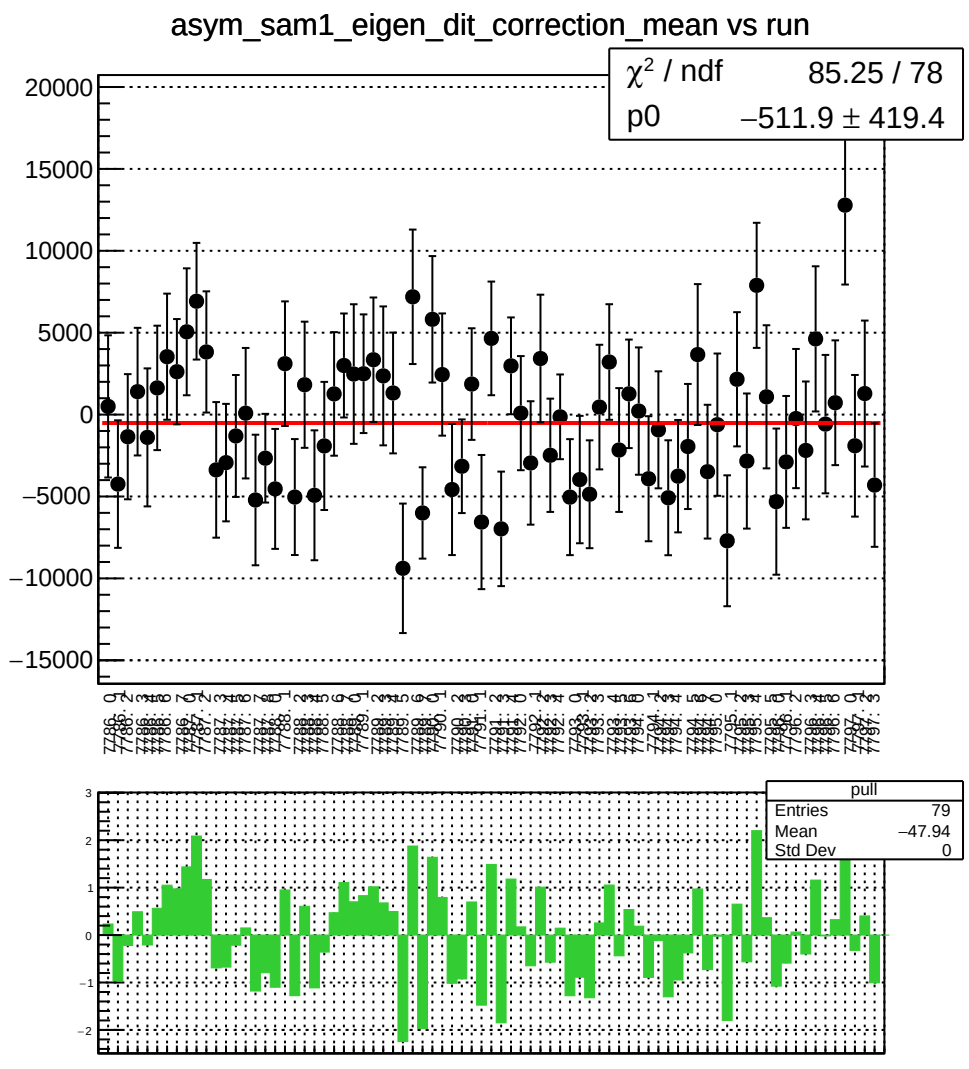

pull1D
Entries 79
Mean 0.01726
Std Dev 1.039

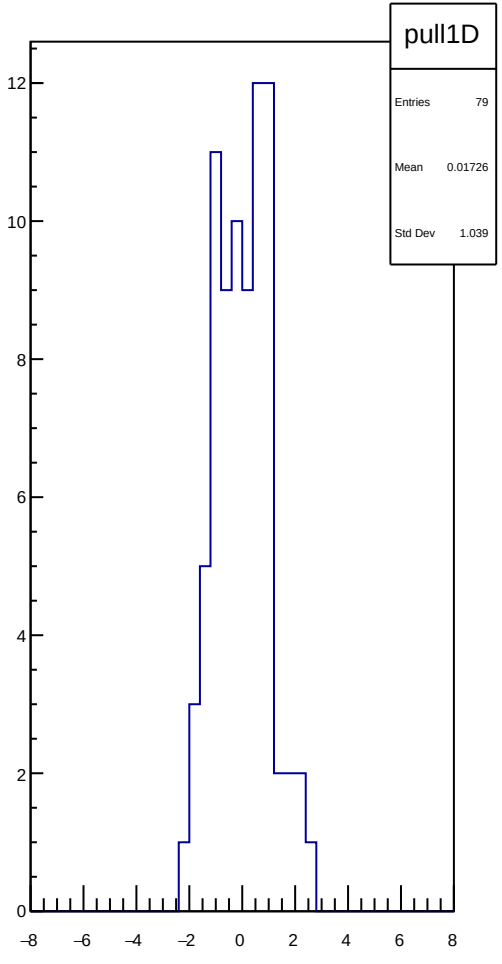

asym_sam1_dit_correction_rms vs run
χ² / ndf 9438 / 78
p0 366.1 ± 0.2965
460
440
420
400
380
360
340
320
300

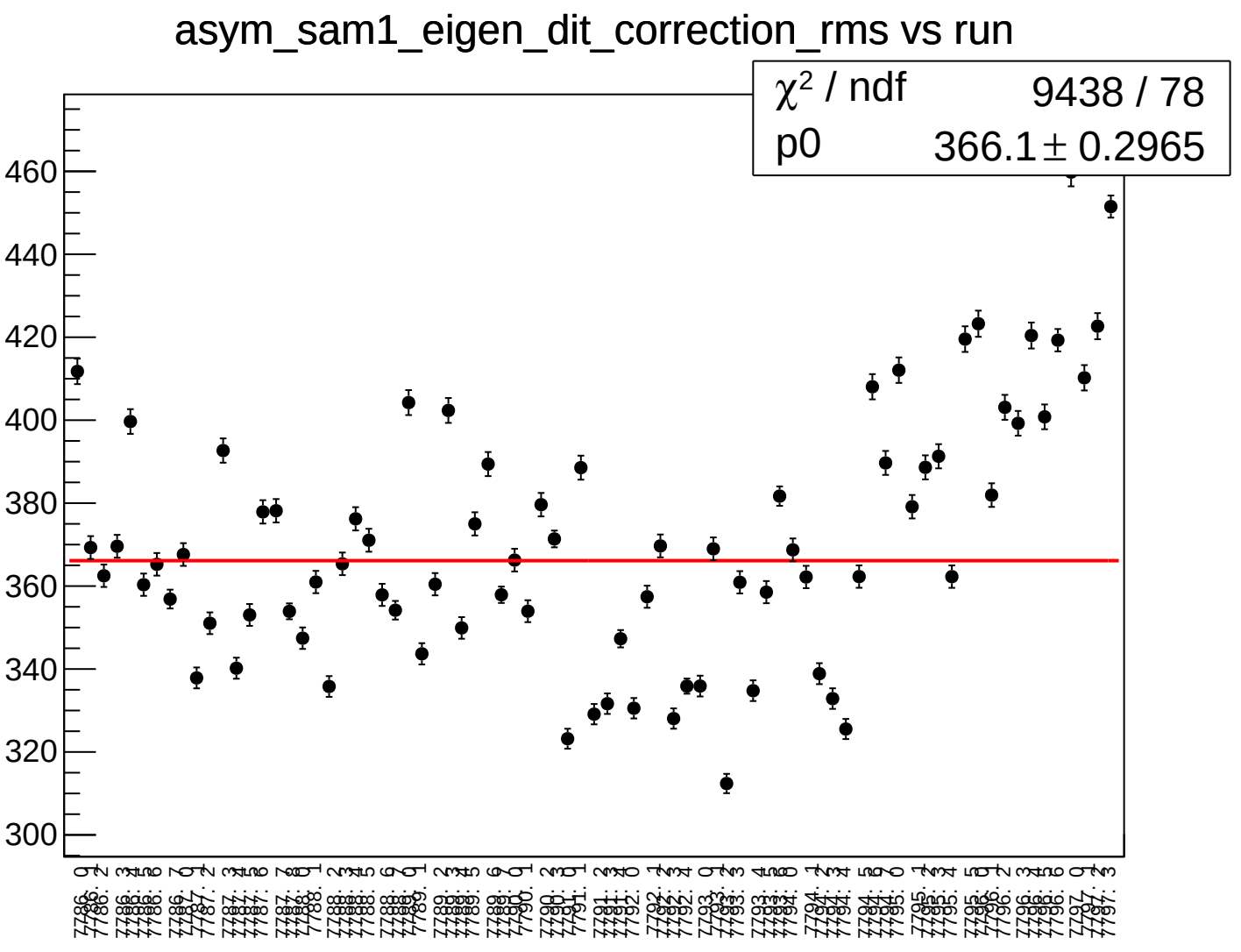

eigen_dit_asym_sam1_mean vs run
χ² / ndf 83.33 / 78
p0 −125.5 ± 90.61
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 79
Mean −85.72
Std Dev 0
3
2
1
0
−1
−2

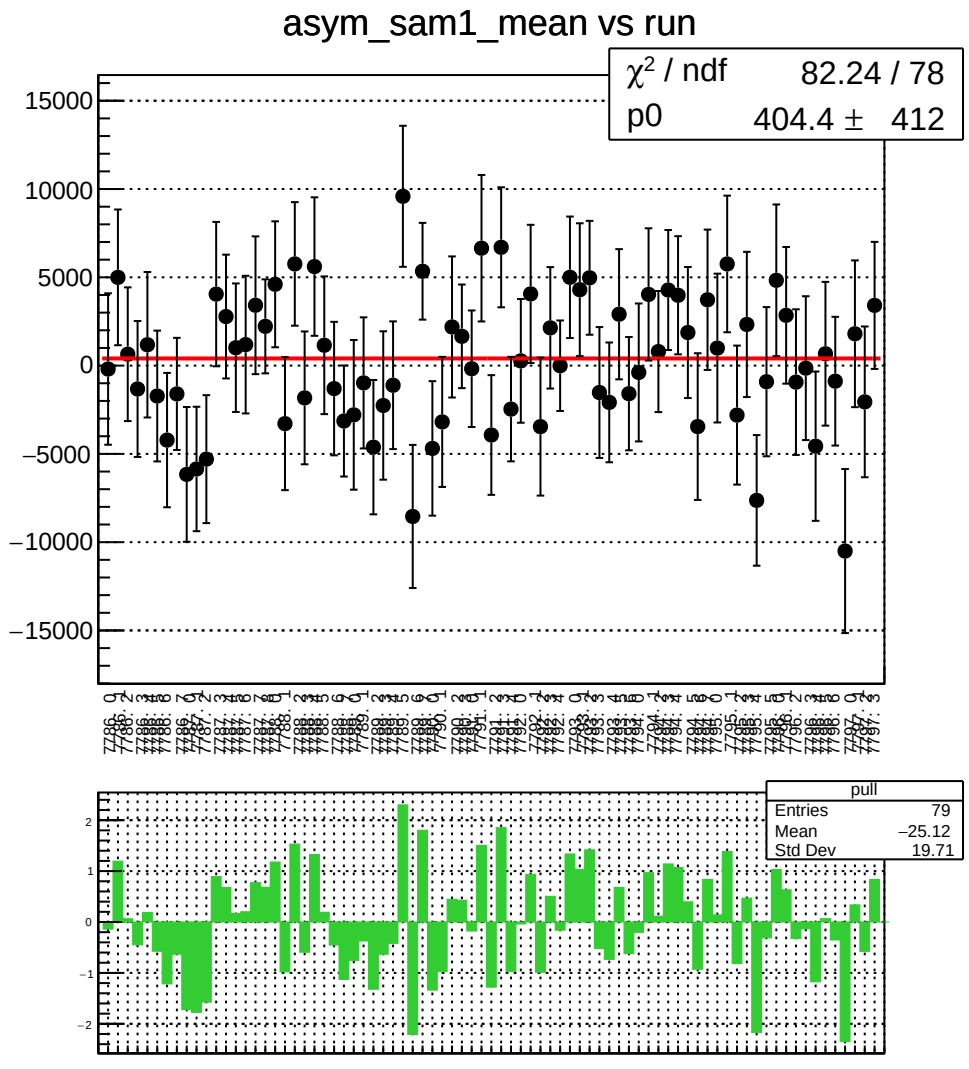

pull1D
Entries 79
Mean 0.01434
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

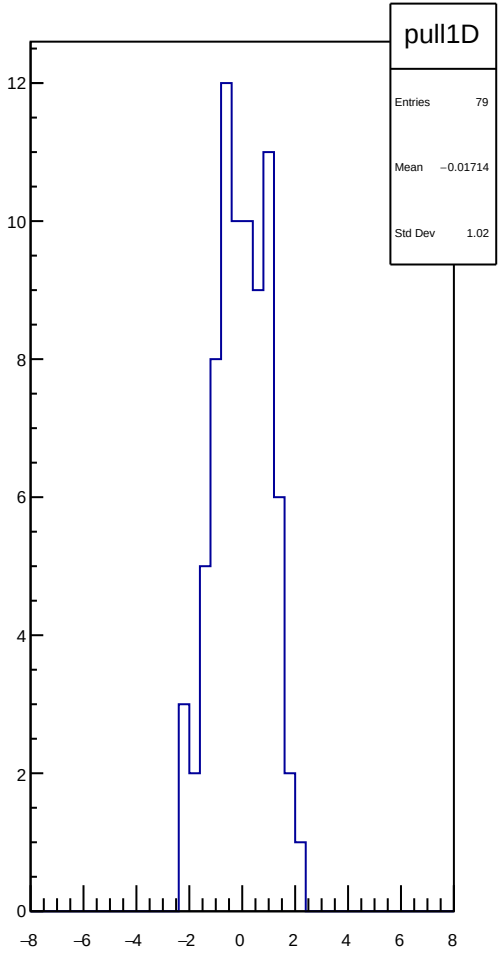

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 3256 / 78
p0 79.27 ± 0.06407
95
90
85
80
75

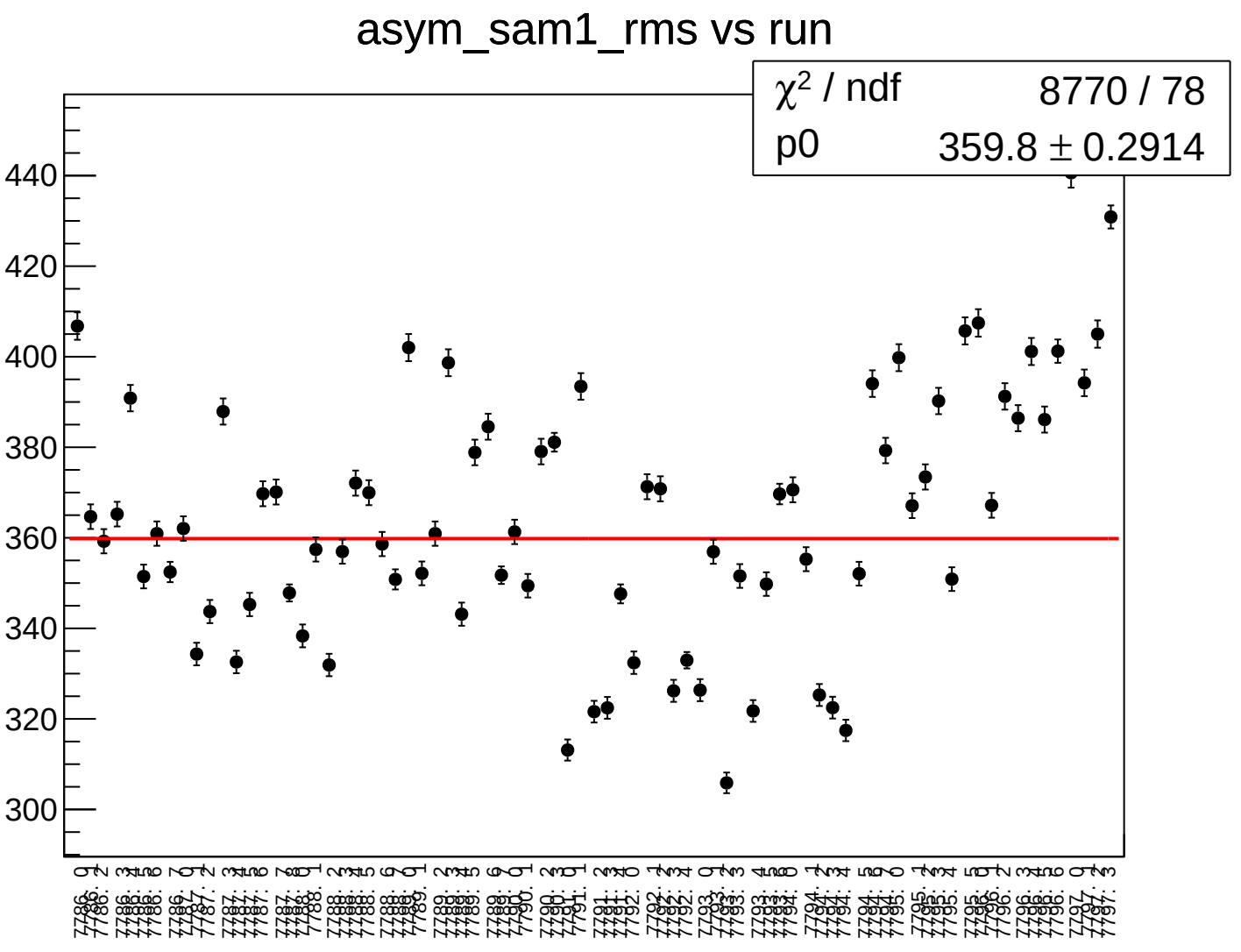

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 85.25 / 78
p0 −511.9 ± 419.4
pull
Entries 79
Mean −47.94
Std Dev 0

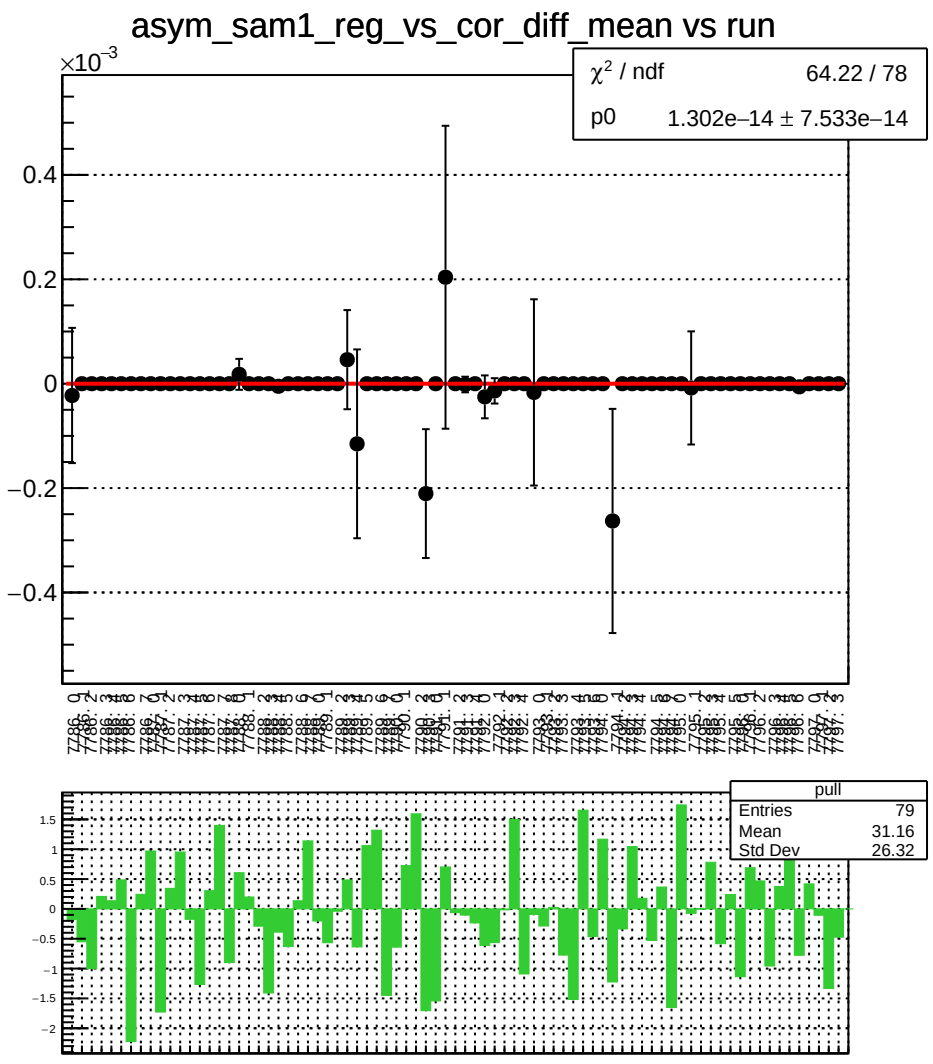

pull1D
Entries 79
Mean 0.01726
Std Dev 1.039

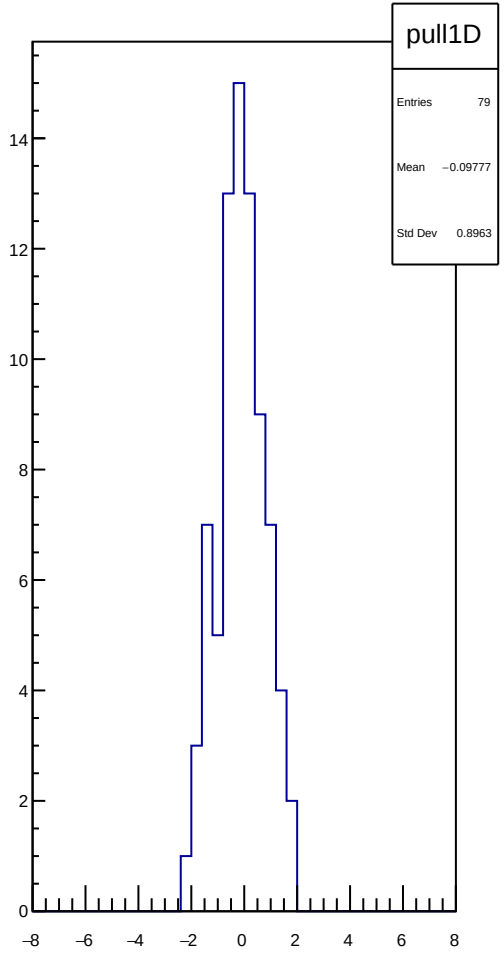

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 9438 / 78
p0 366.1 ± 0.2965
460
440
420
400
380
360
340
320
300

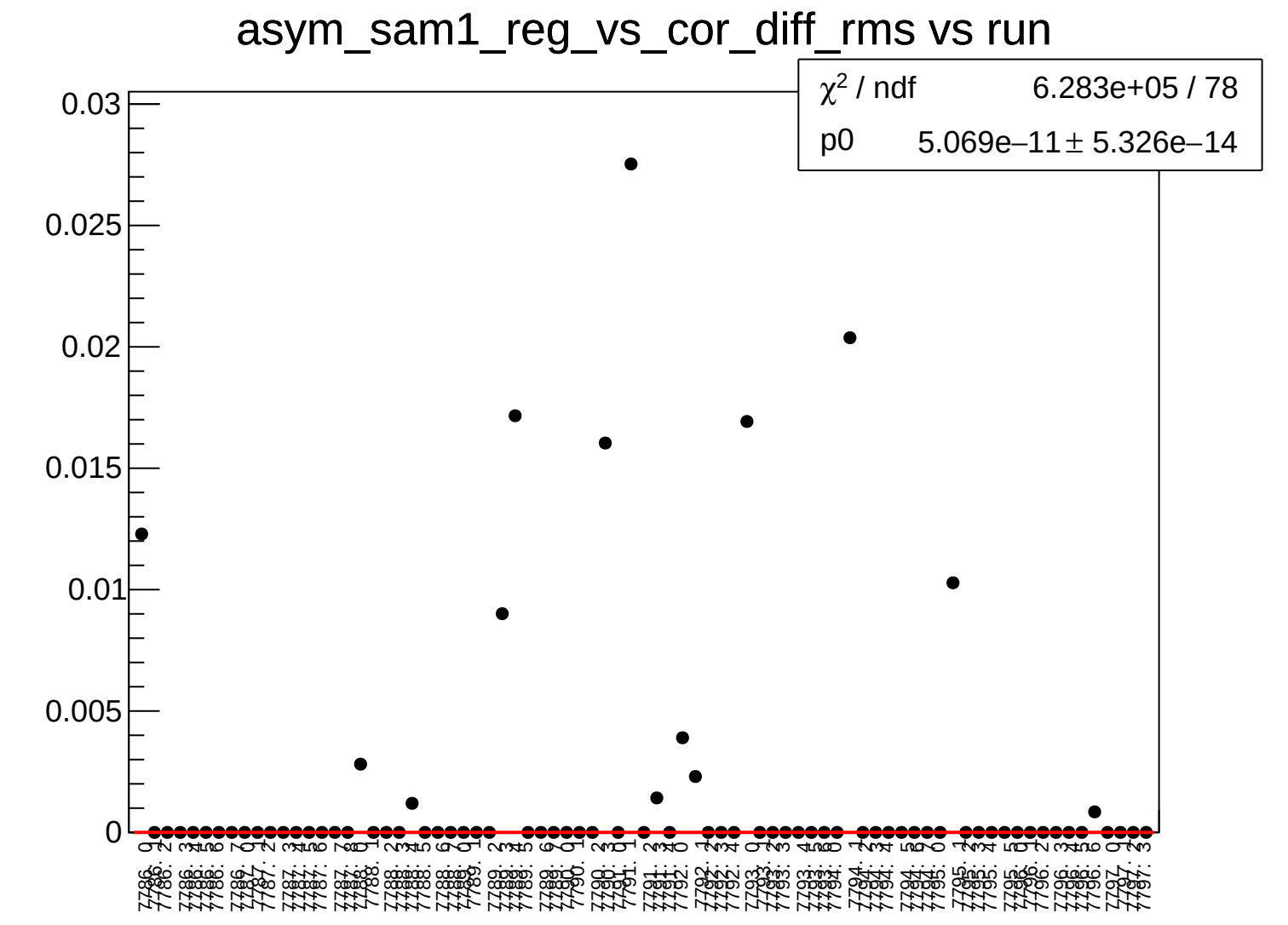

asym_sam1_mean vs run
χ² / ndf 82.24 / 78
p0 404.4 ± 412
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean −25.12
Std Dev 19.71
2
1
0
−1
−2

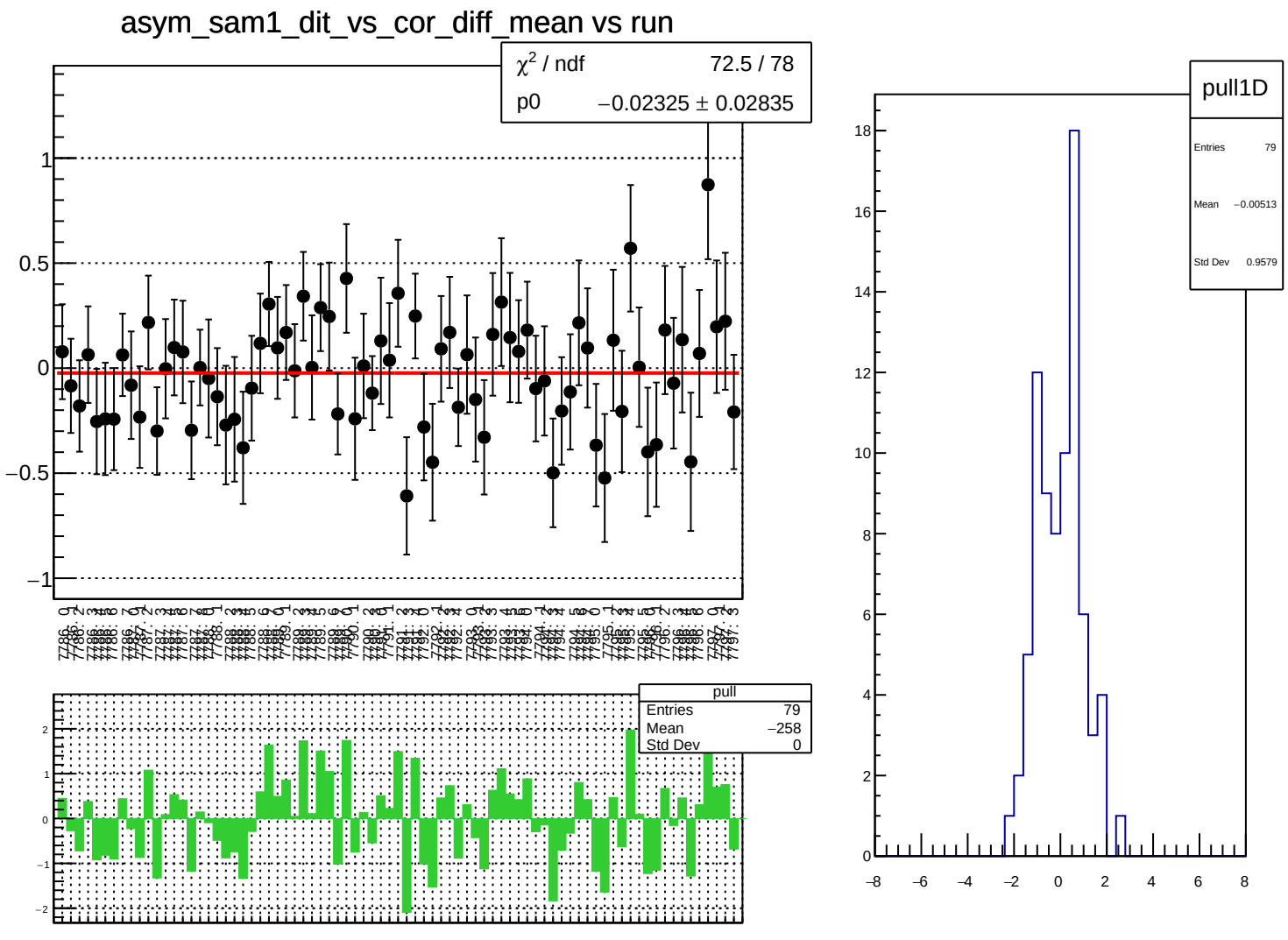

pull1D
Entries 79
Mean −0.01714
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

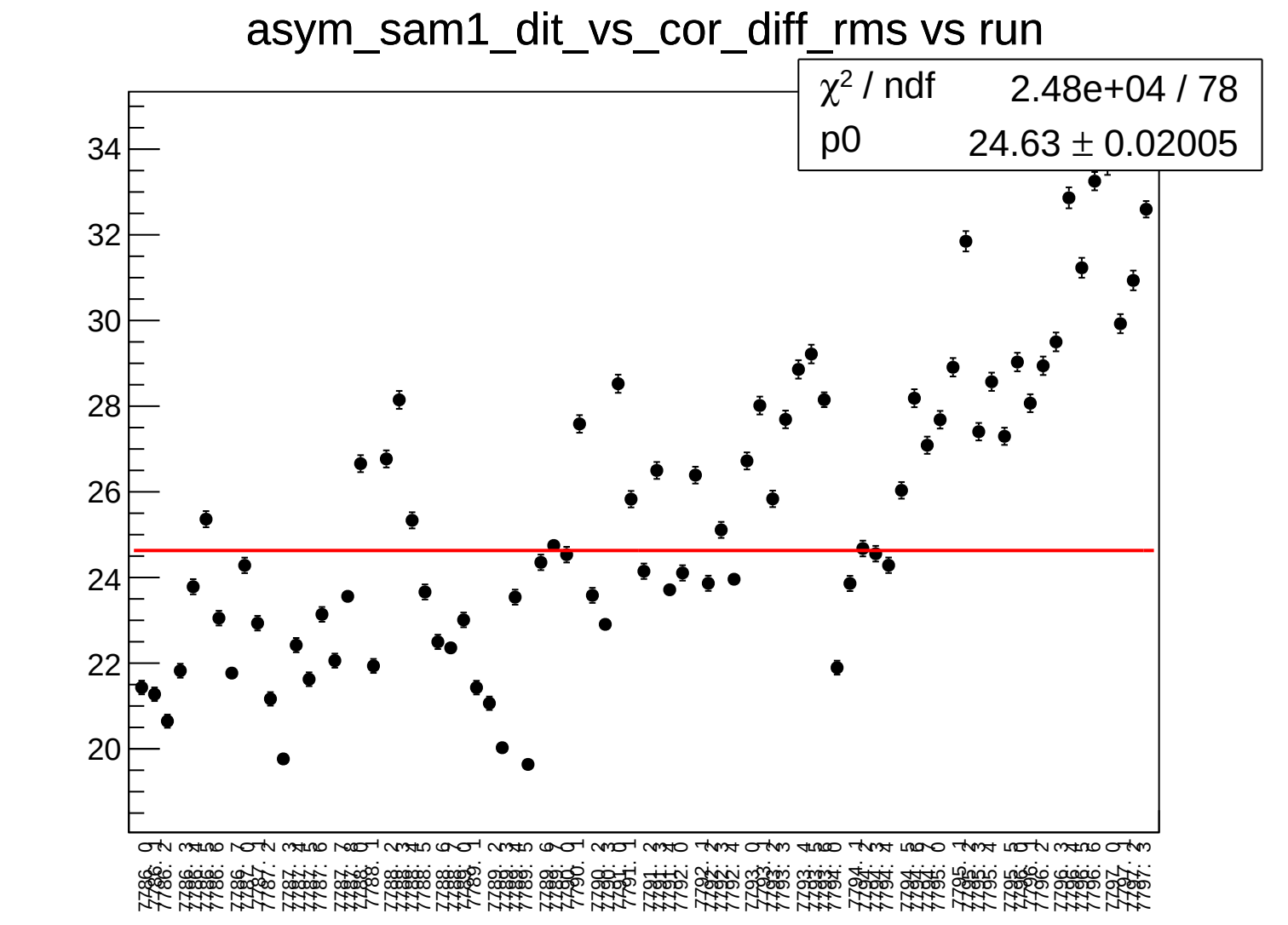

asym_sam1_rms vs run
χ² / ndf 8770 / 78
p0 359.8 ± 0.2914
440
420
400
380
360
340
320
300

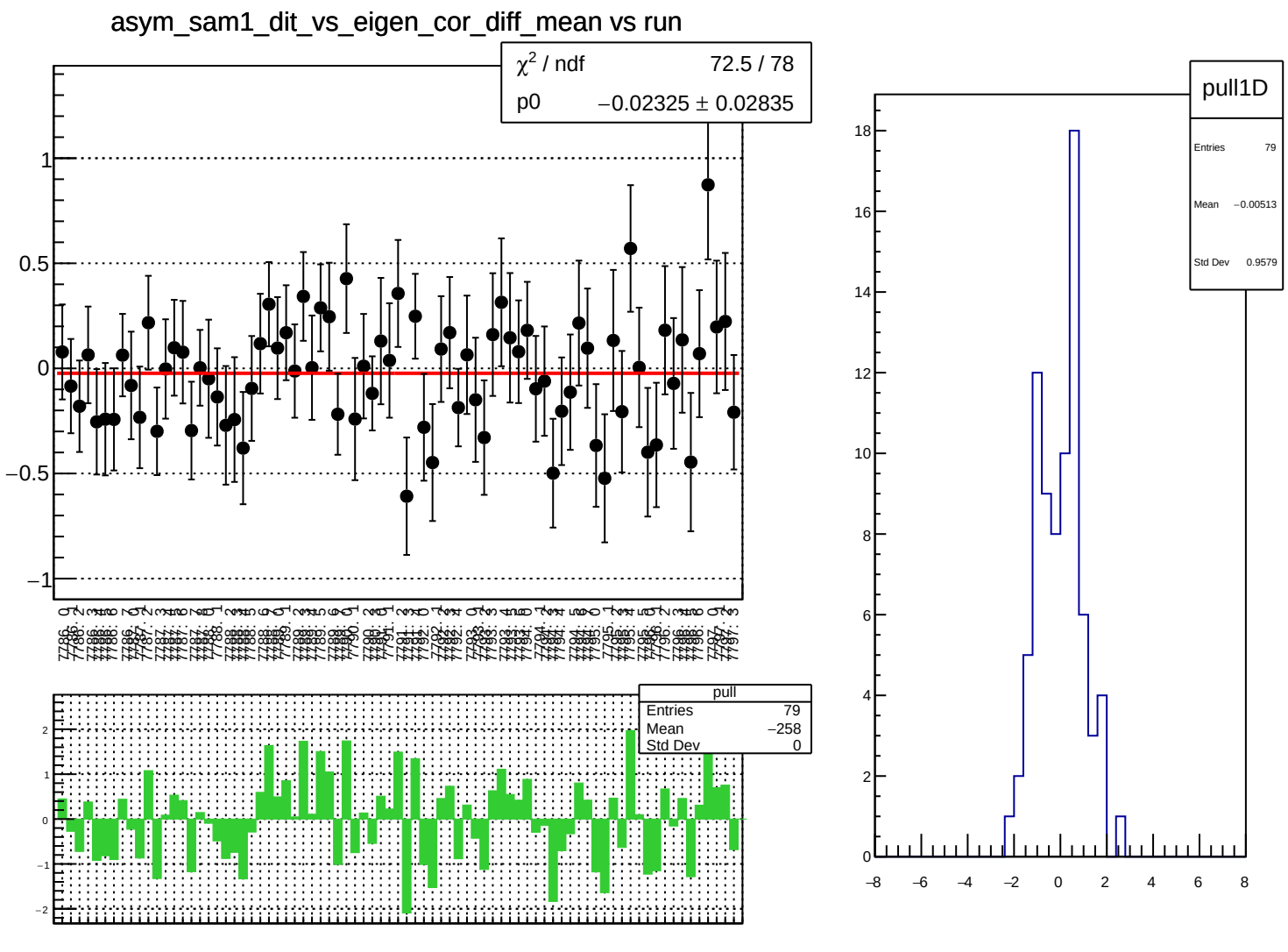

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 64.22 / 78
p0 1.302e−14 ± 7.533e−14
0.4
0.2
0
−0.2
−0.4
pull
Entries 79
Mean 31.16
Std Dev 26.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2

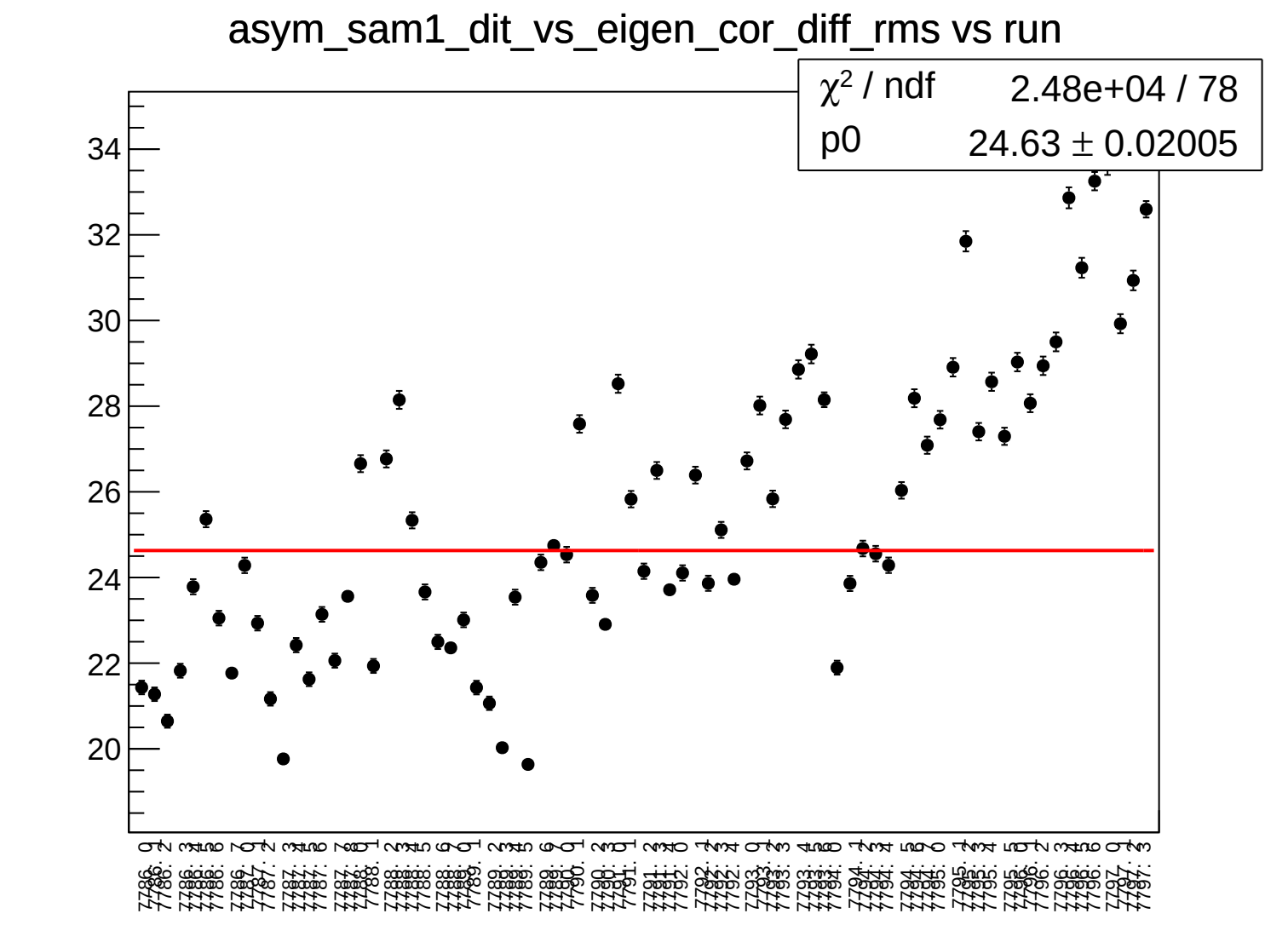

pull1D
Entries 79
Mean −0.09777
Std Dev 0.8963
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

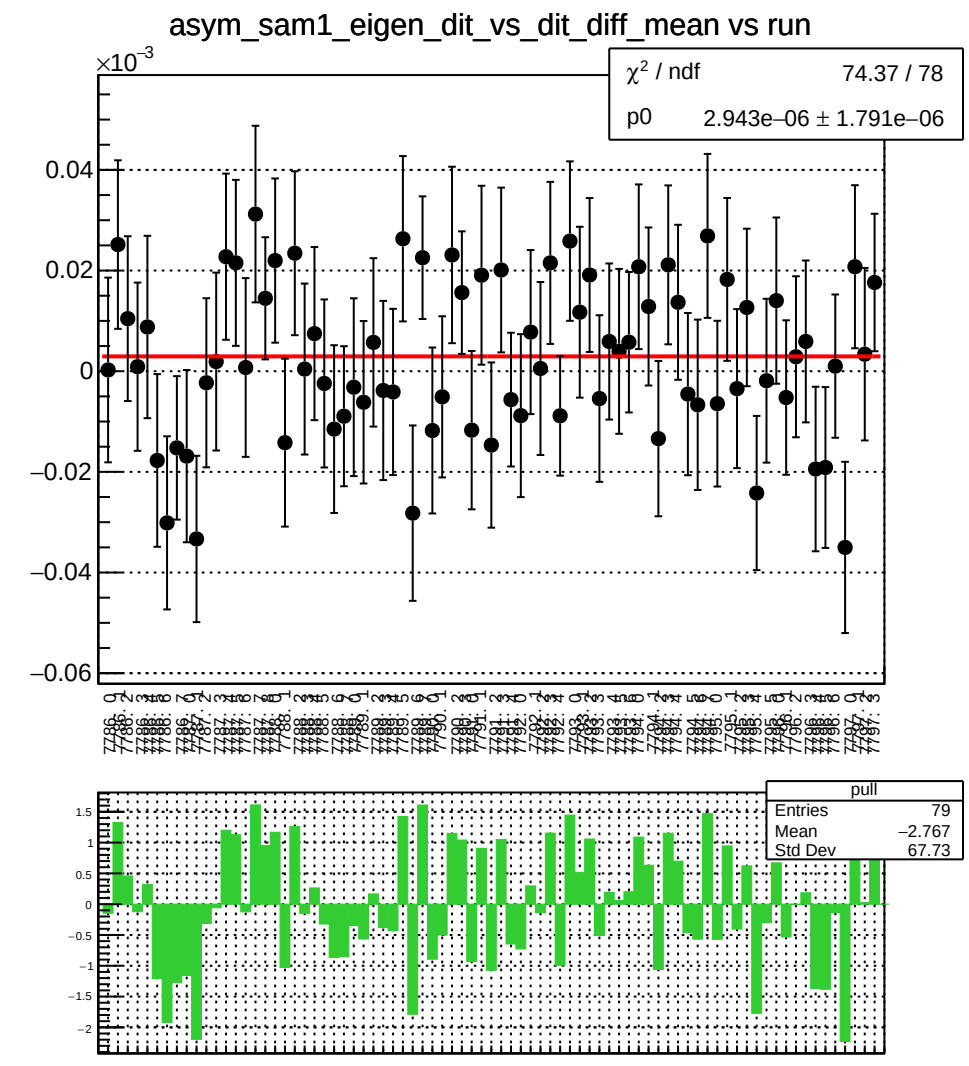

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 6.283e+05 / 78
p0 5.069e−11 ± 5.326e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

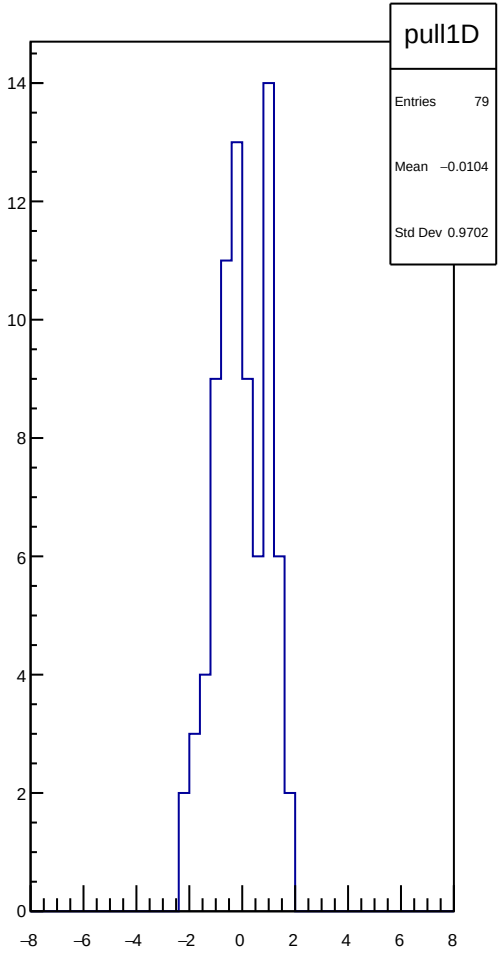

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 72.5 / 78
p0 −0.02325 ± 0.02835
pull
Entries 79
Mean −258
Std Dev 0
pull1D
Entries 79
Mean −0.00513
Std Dev 0.9579

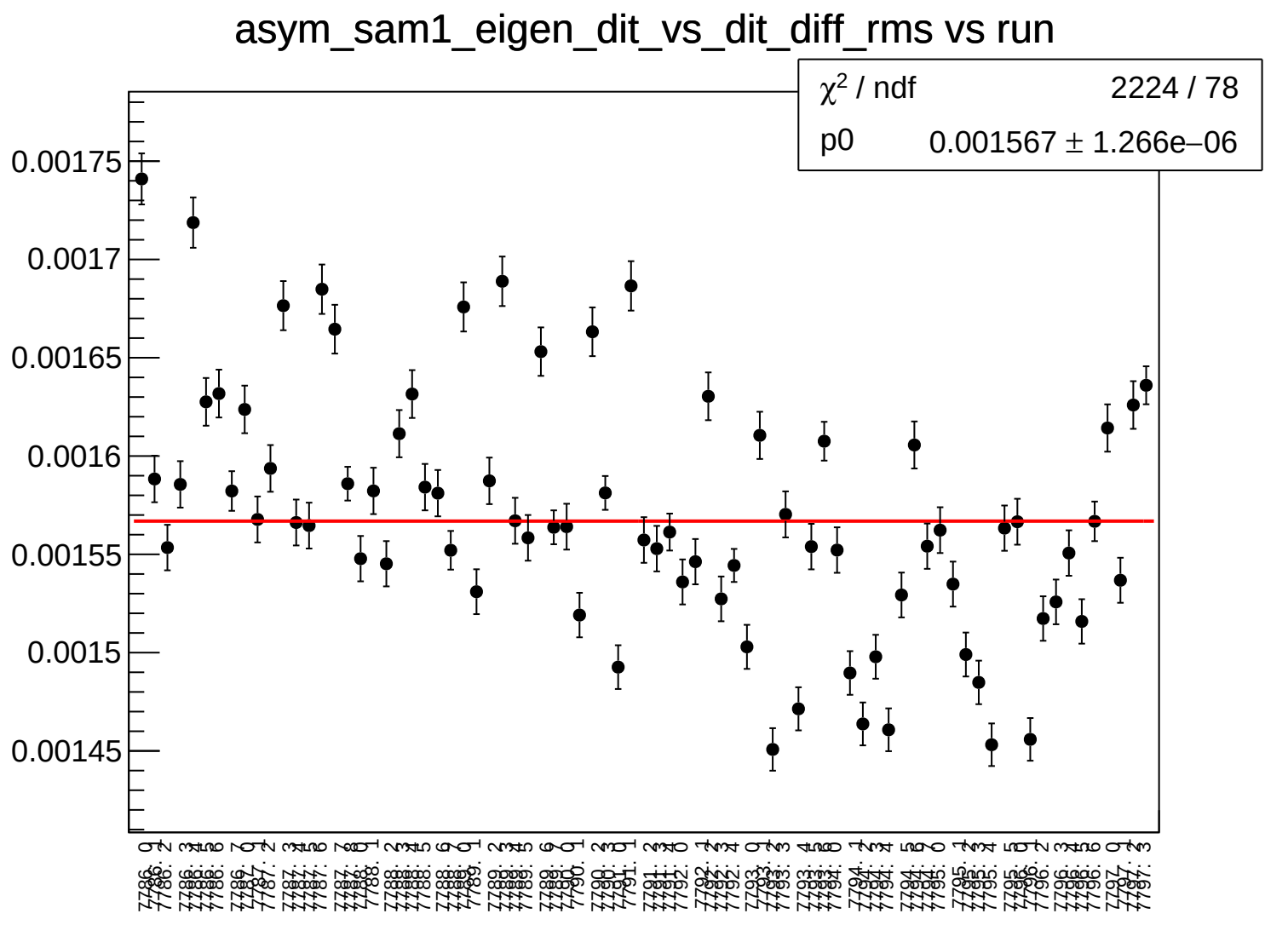

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.48e+04 / 78
p0 24.63 ± 0.02005
34
32
30
28
26
24
22
20

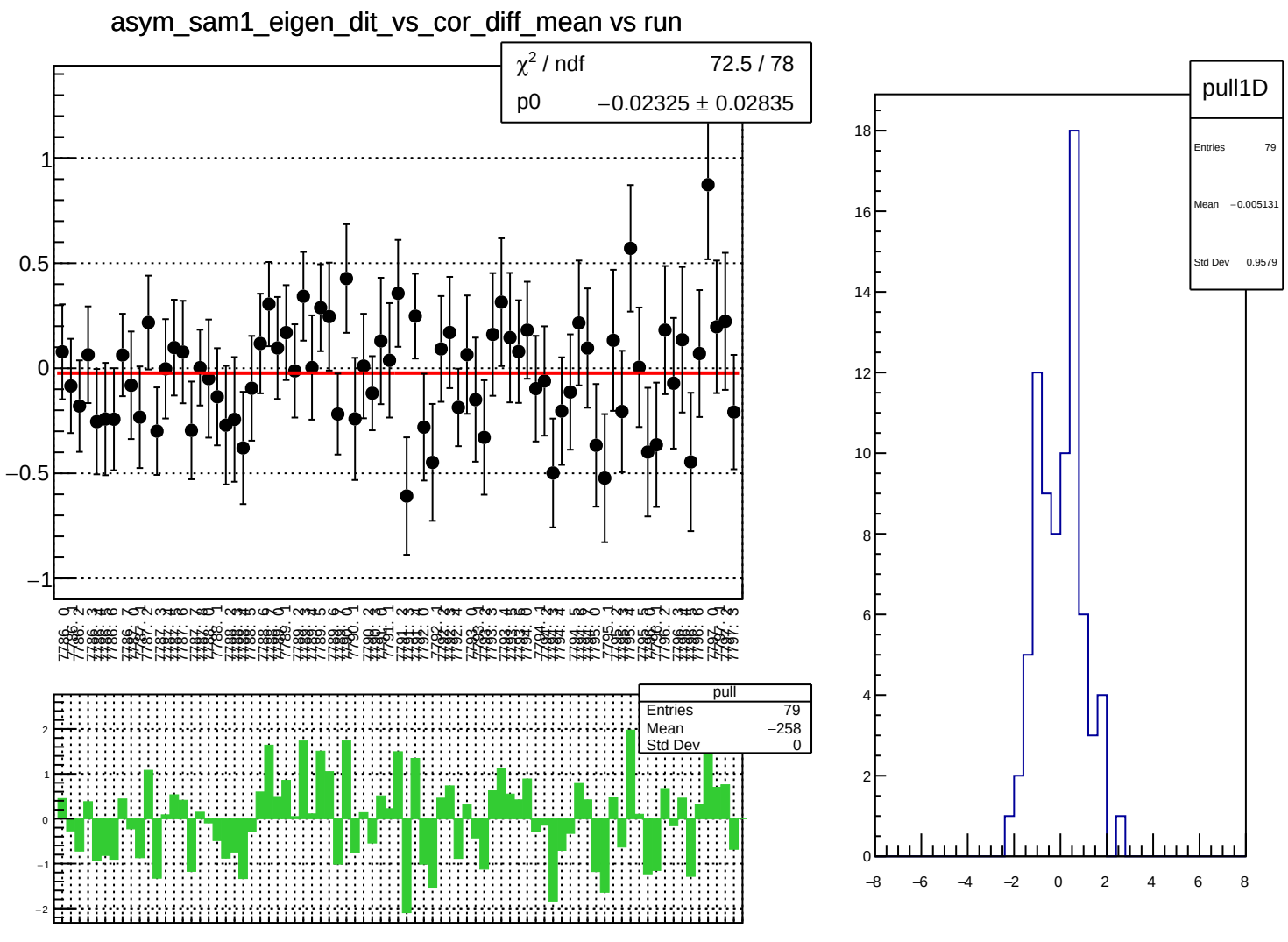

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.5 / 78
p0 −0.02325 ± 0.02835
pull
Entries 79
Mean −258
Std Dev 0
pull1D
Entries 79
Mean −0.00513
Std Dev 0.9579

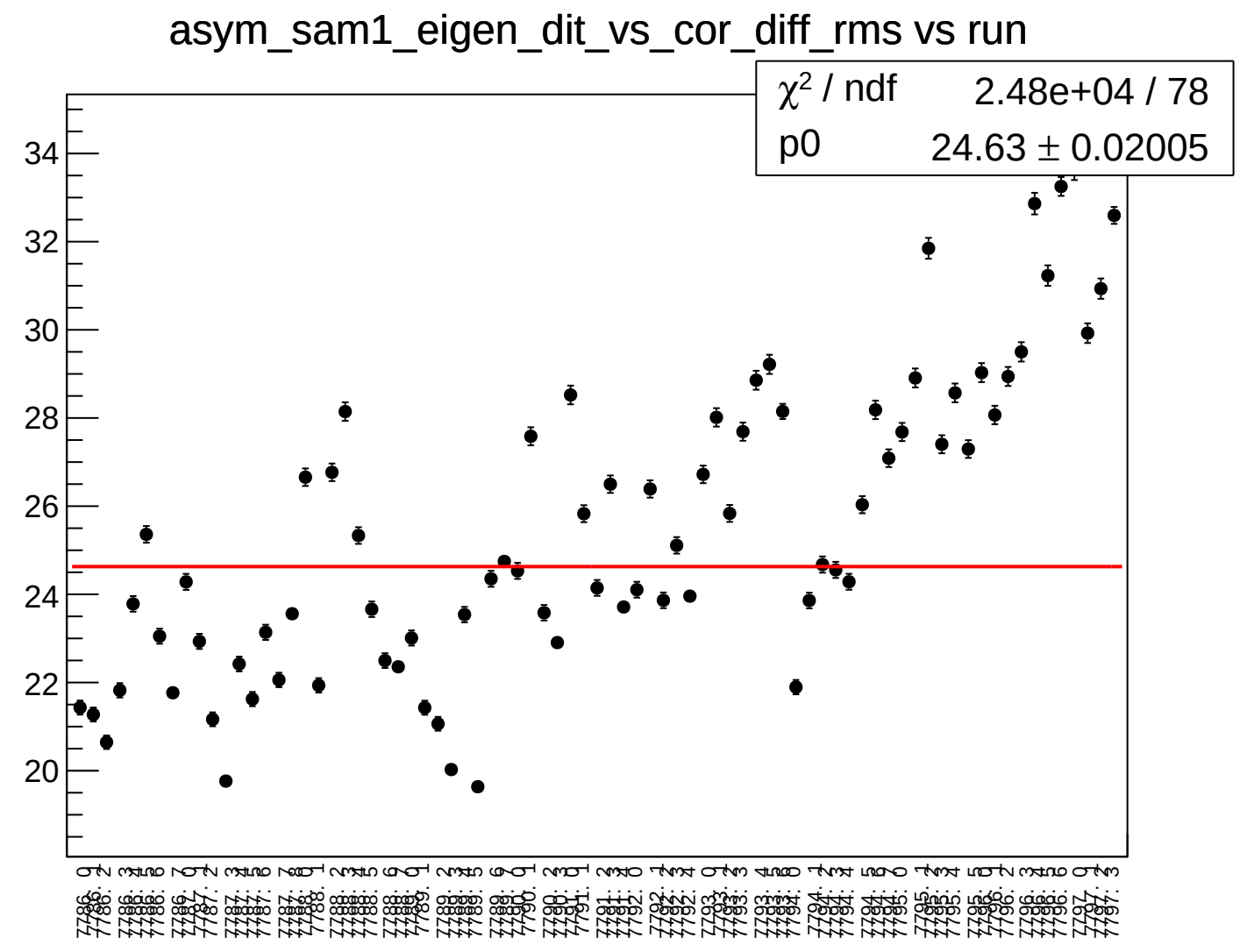

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.48e+04 / 78
p0 24.63 ± 0.02005
34
32
30
28
26
24
22
20

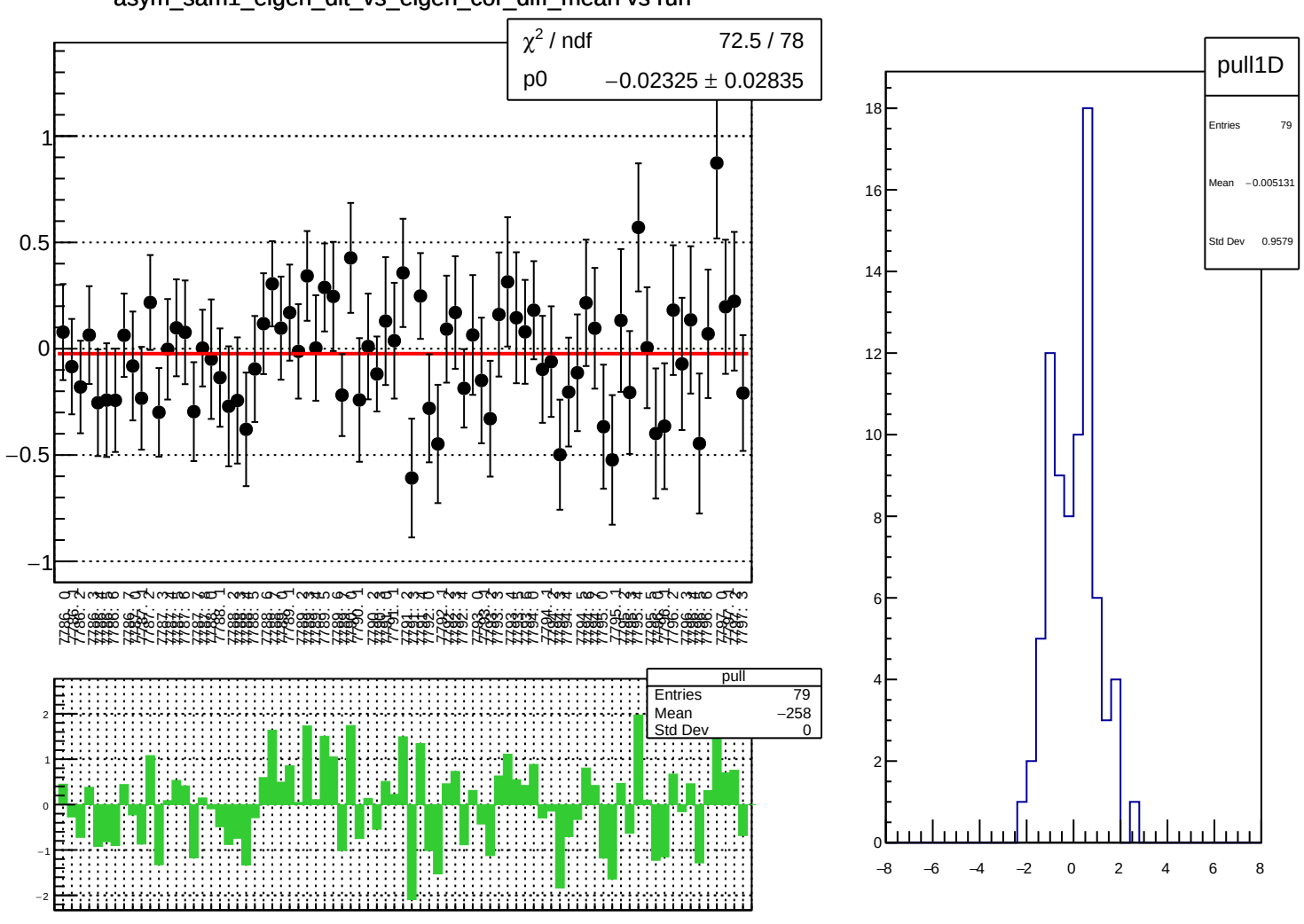

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.37 / 78
p0 2.943e−06 ± 1.791e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 79
Mean −2.767
Std Dev 67.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2

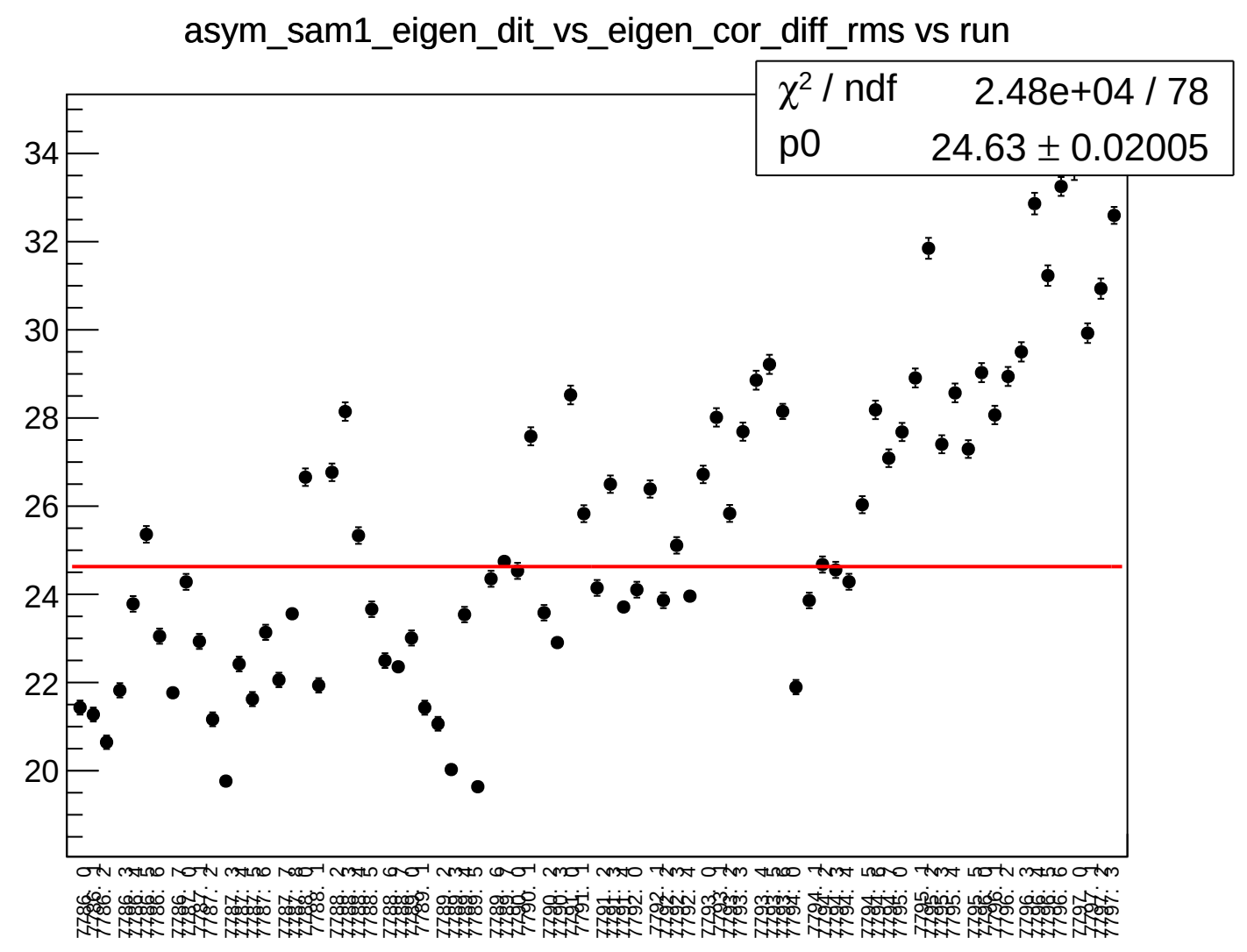

pull1D
Entries 79
Mean −0.0104
Std Dev 0.9702
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

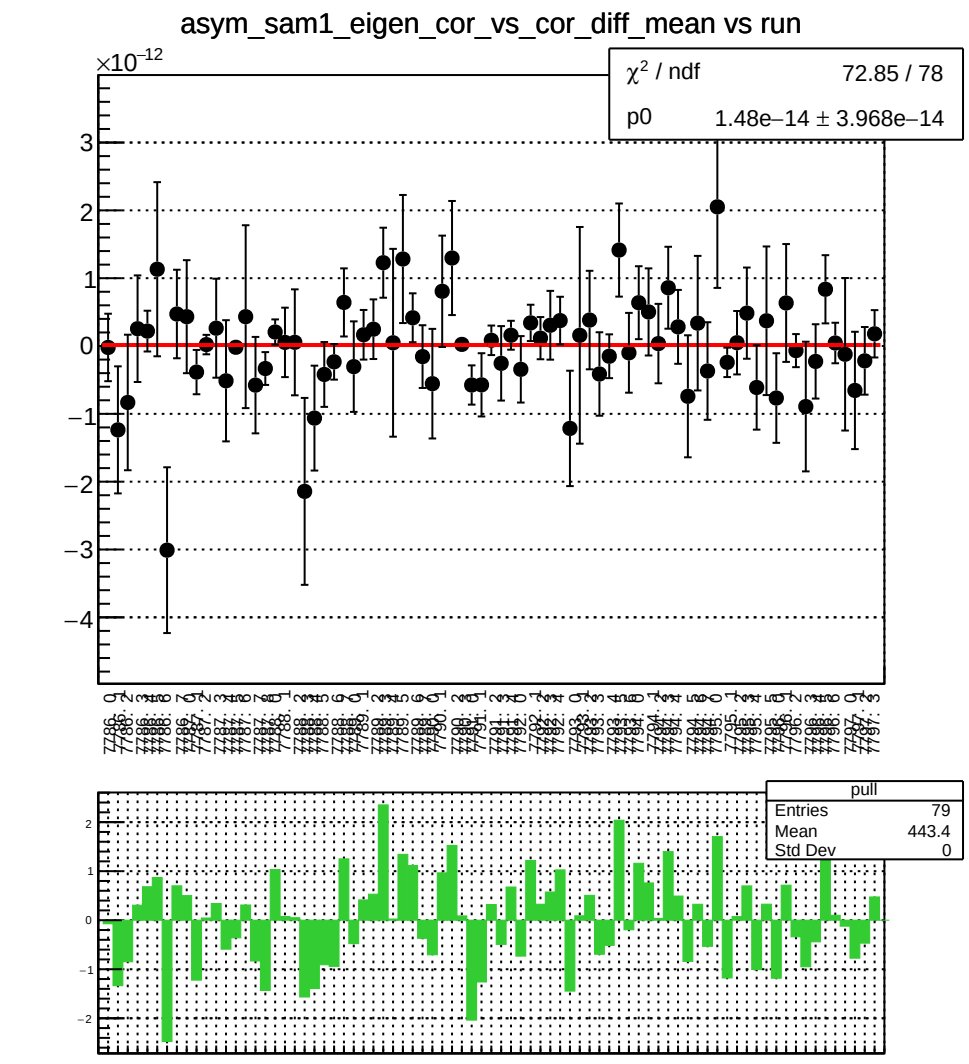

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2224 / 78
p0 0.001567 ± 1.266e−06
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

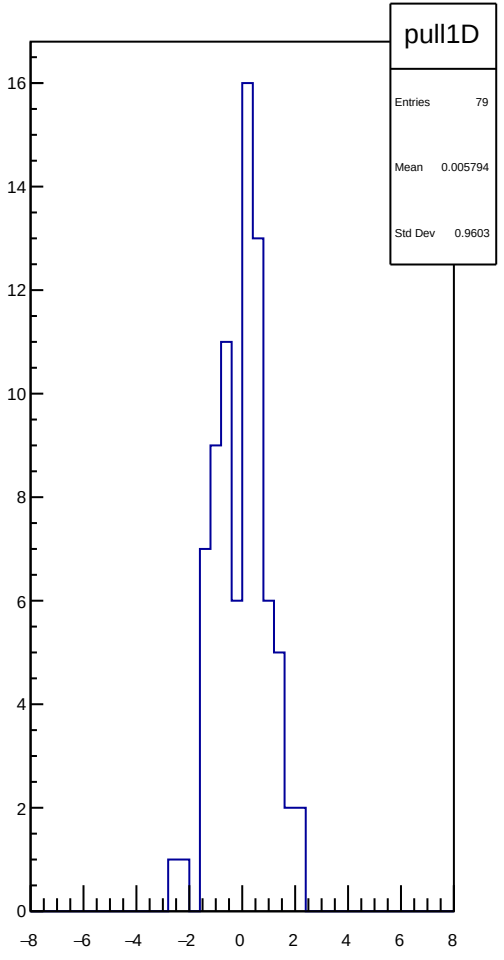

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.5 / 78
p0 −0.02325 ± 0.02835
pull
Entries 79
Mean −258
Std Dev 0
pull1D
Entries 79
Mean −0.005131
Std Dev 0.9579

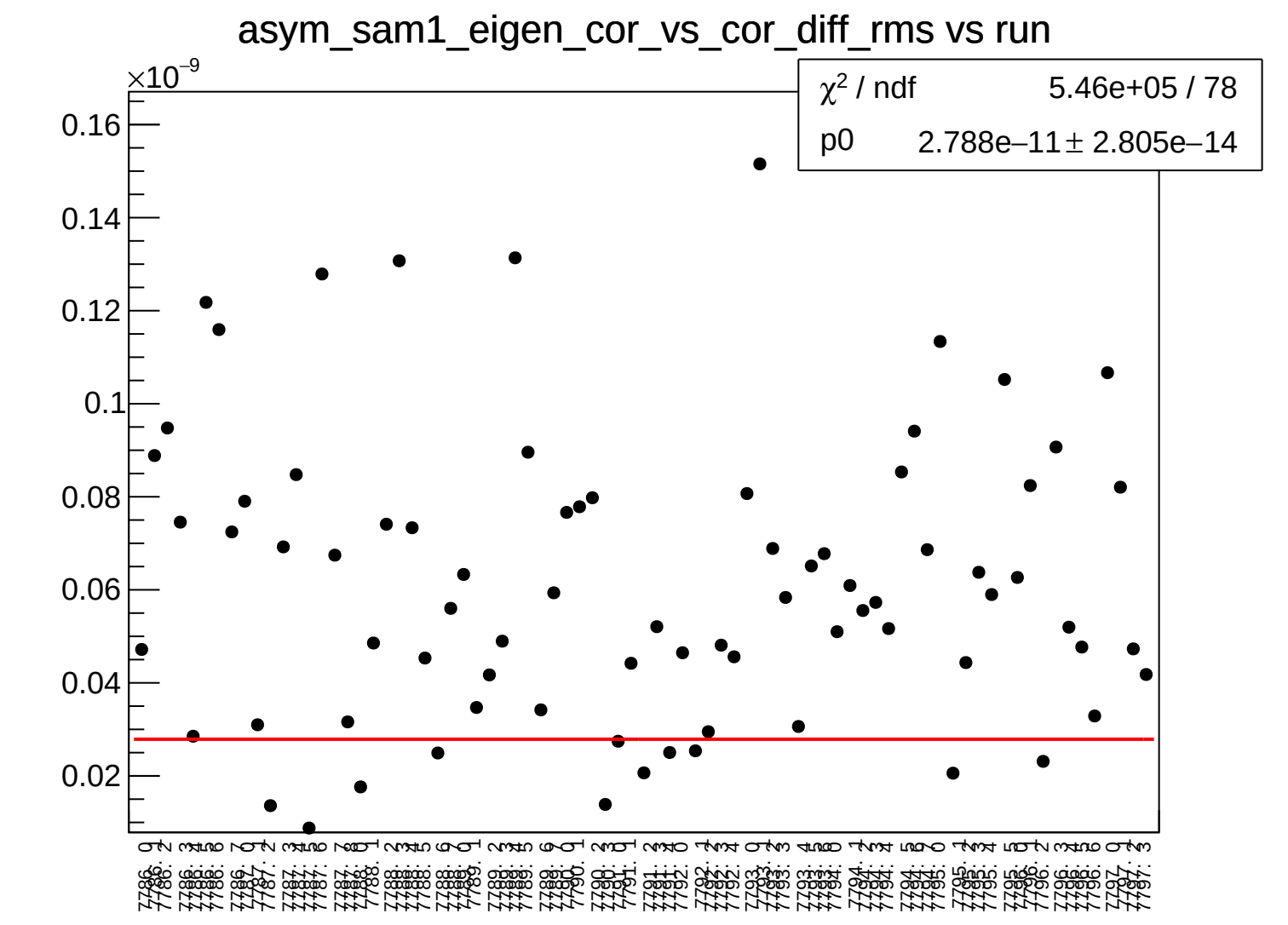

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.48e+04 / 78
p0 24.63 ± 0.02005
34
32
30
28
26
24
22
20

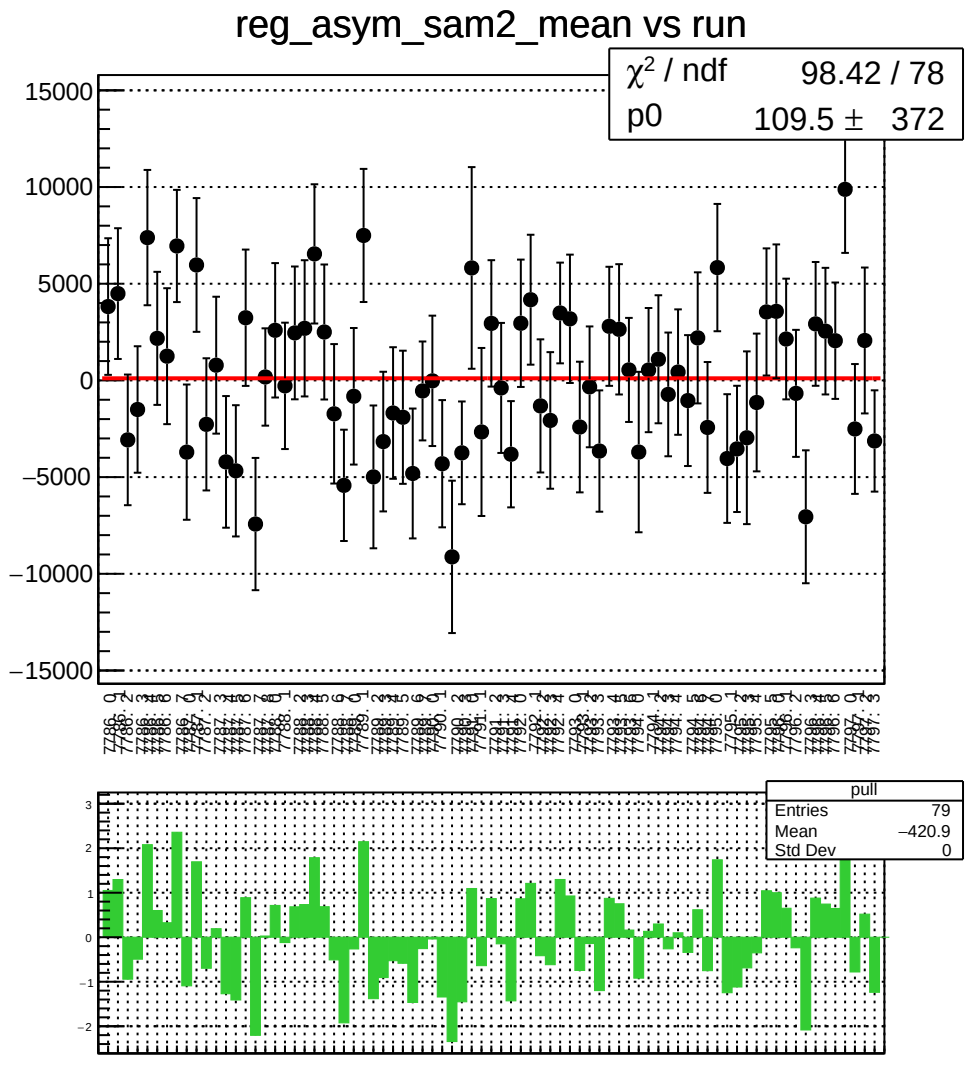

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.5 / 78
p0 −0.02325 ± 0.02835
pull
Entries 79
Mean −258
Std Dev 0
pull1D
Entries 79
Mean −0.005131
Std Dev 0.9579

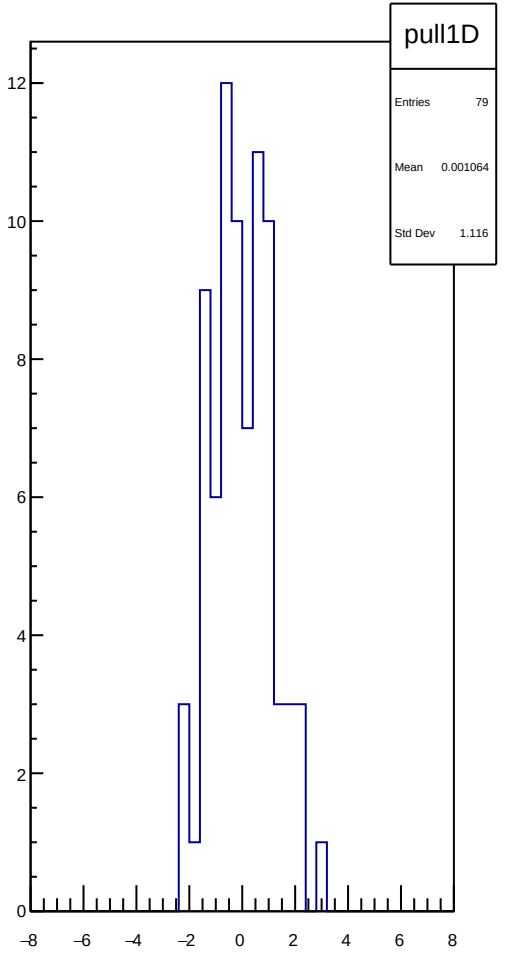

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.48e+04 / 78
p0 24.63 ± 0.02005
34
32
30
28
26
24
22
20

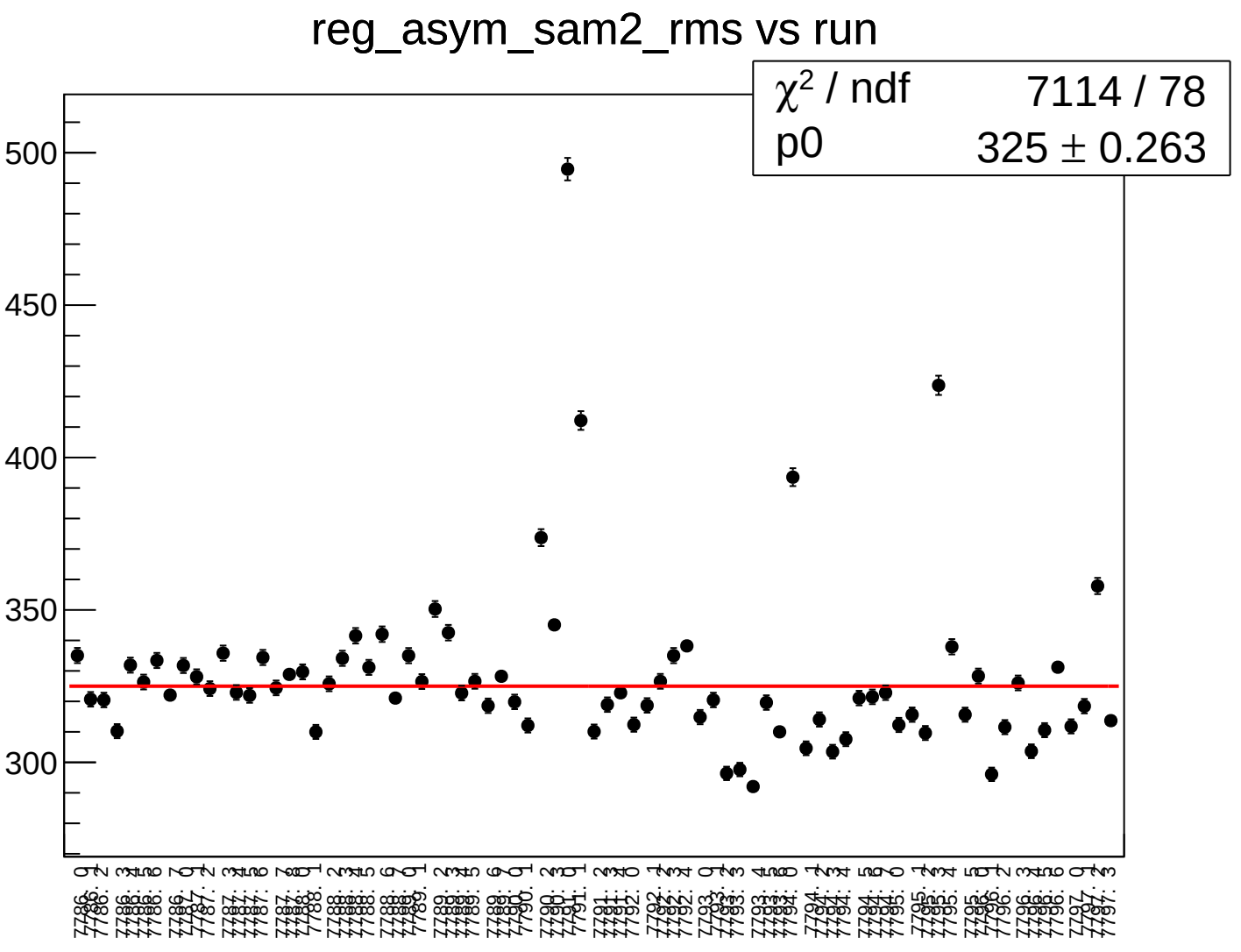

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.85 / 78
p0 1.48e−14 ± 3.968e−14
pull
Entries 79
Mean 443.4
Std Dev 0

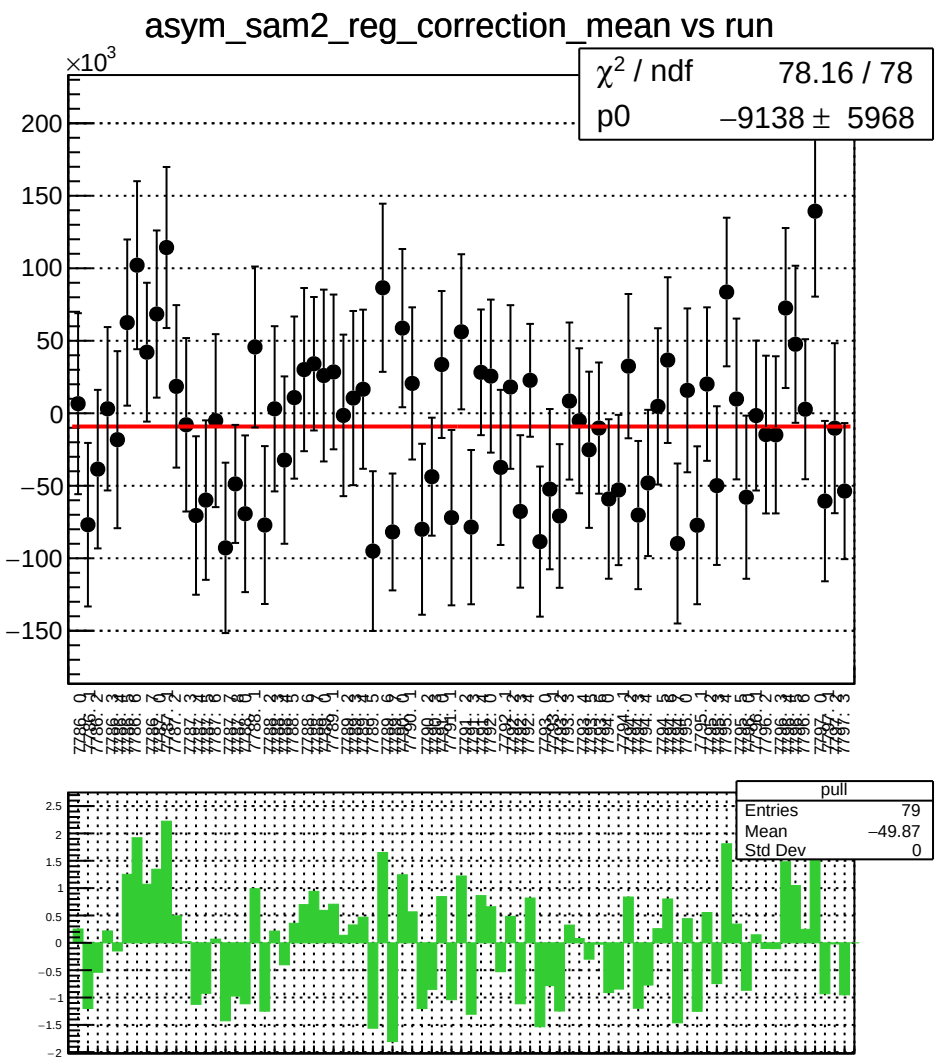

pull1D
Entries 79
Mean 0.005794
Std Dev 0.9603

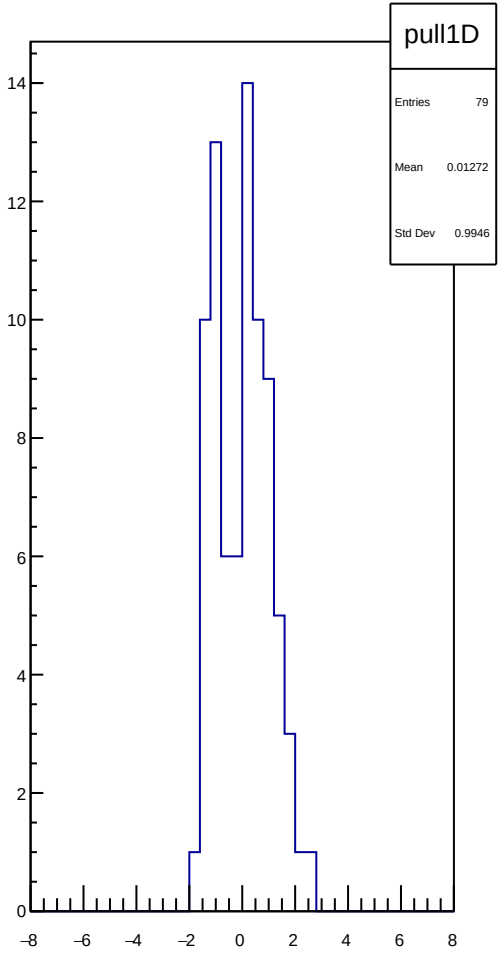

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.46e+05 / 78
p0 2.788e−11 ± 2.805e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

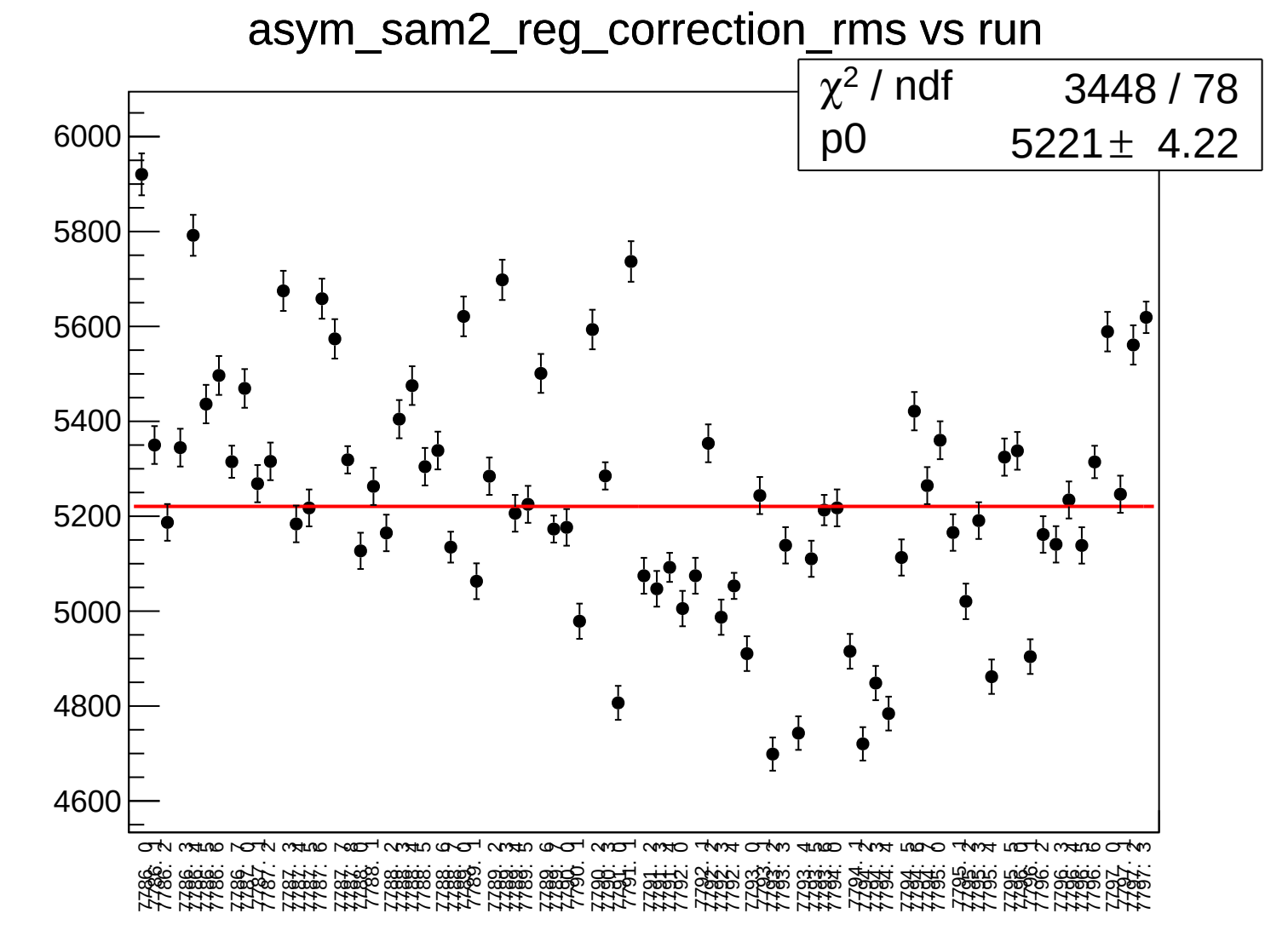

reg_asym_sam2_mean vs run
χ² / ndf 98.42 / 78
p0 109.5 ± 372
pull
Entries 79
Mean −420.9
Std Dev 0

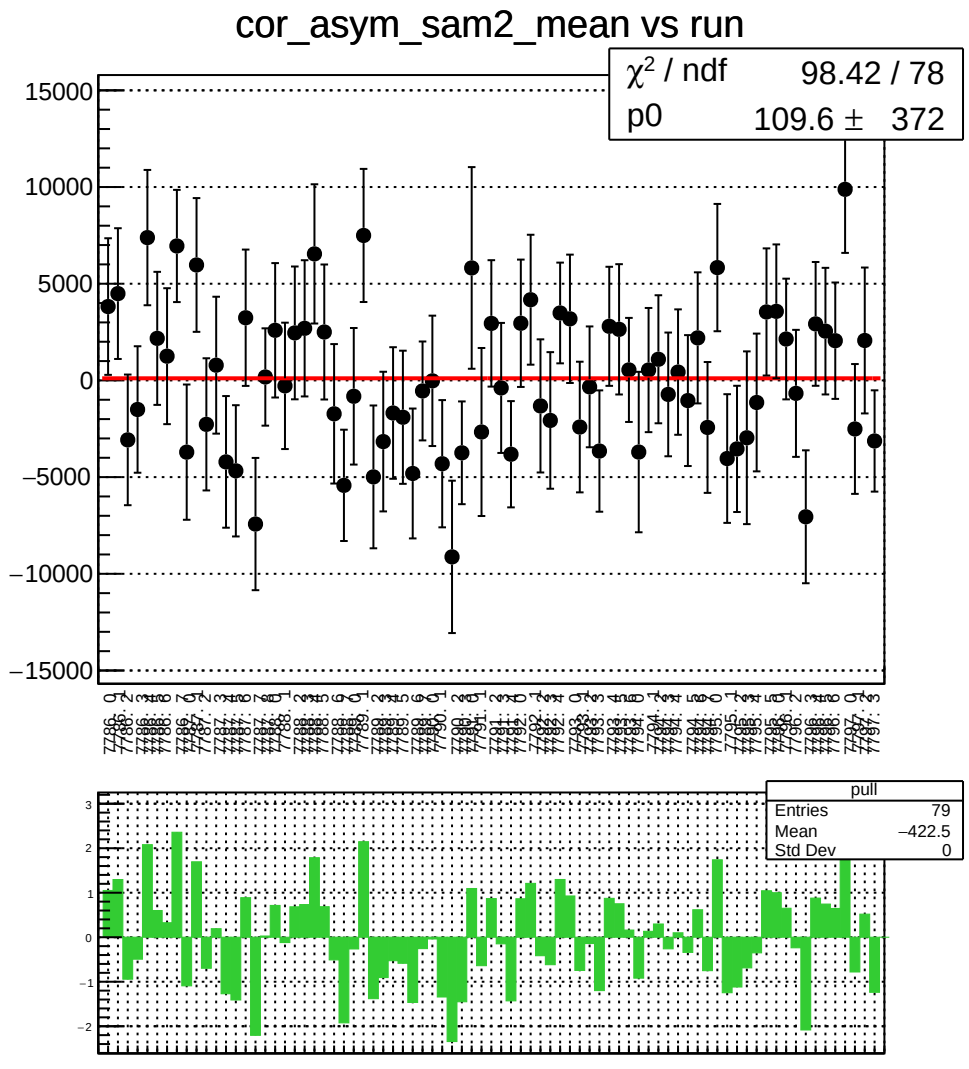

pull1D
Entries 79
Mean 0.001064
Std Dev 1.116

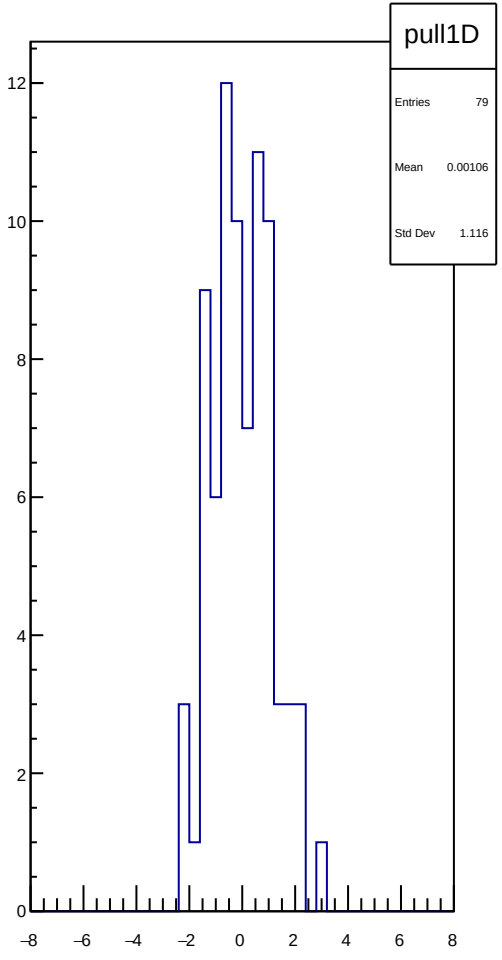

reg_asym_sam2_rms vs run
χ² / ndf 7114 / 78
p0 325 ± 0.263
500
450
400
350
300

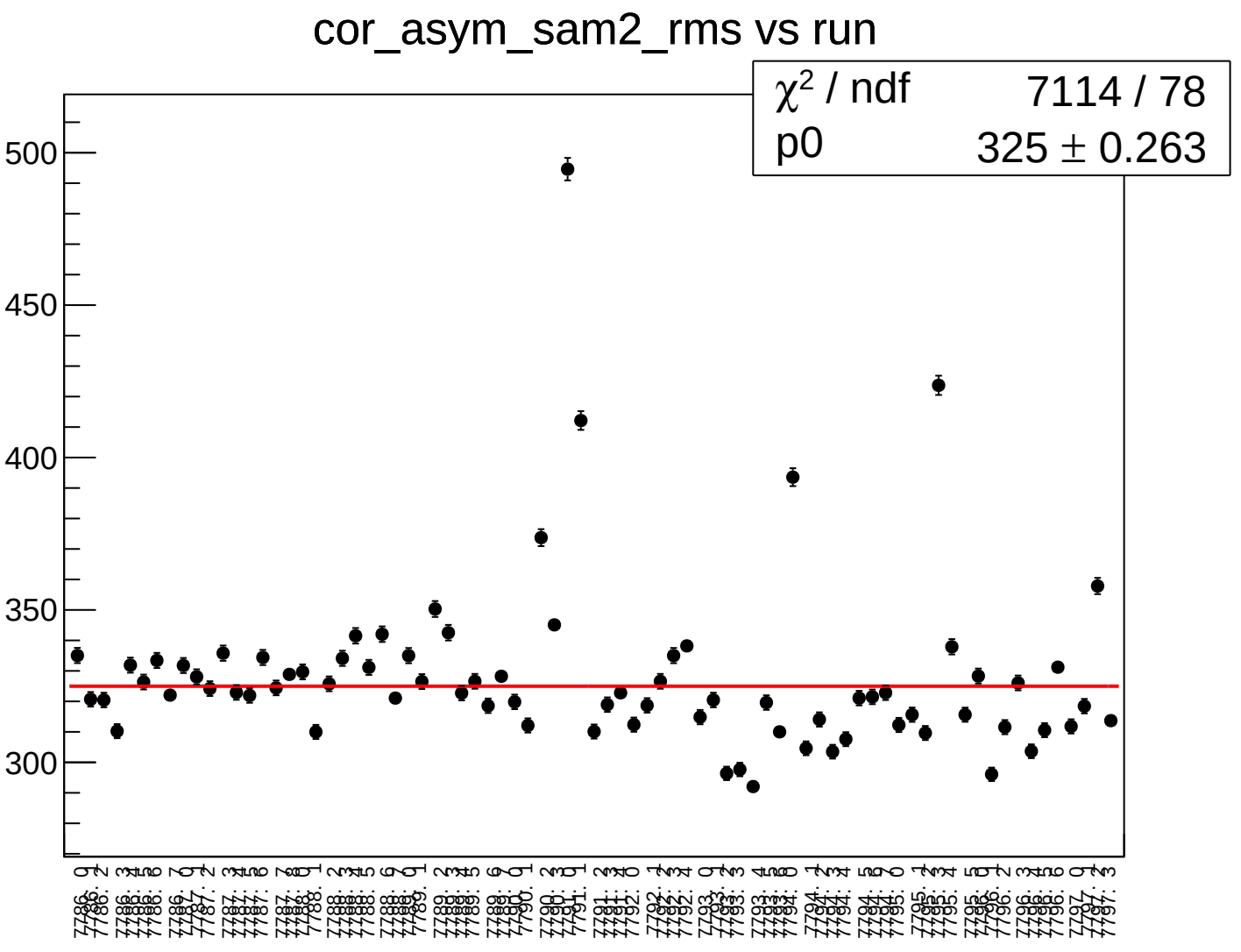

asym_sam2_reg_correction_mean vs run
χ² / ndf 78.16 / 78
p0 −9138 ± 5968
pull
Entries 79
Mean −49.87
Std Dev 0

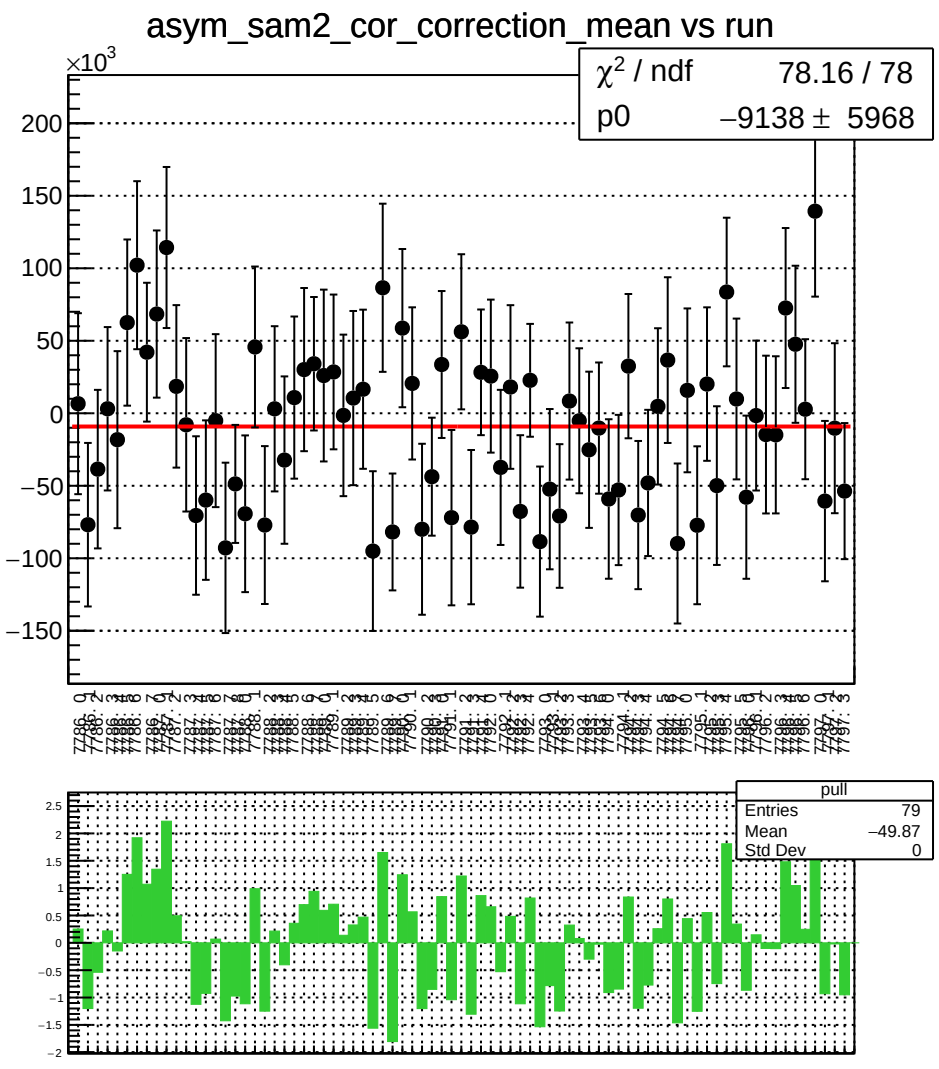

pull1D
Entries 79
Mean 0.01272
Std Dev 0.9946

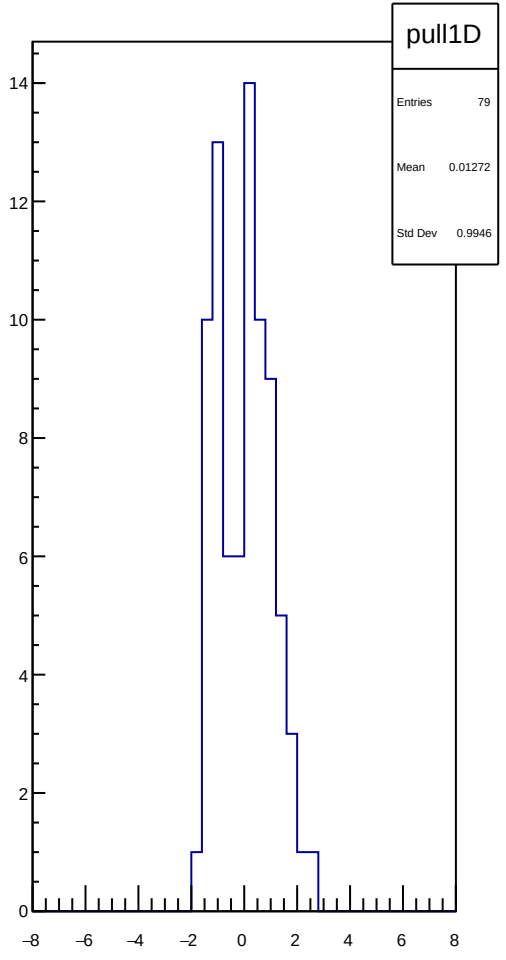

asym_sam2_reg_correction_rms vs run
χ² / ndf 3448 / 78
p0 5221 ± 4.22
6000
5800
5600
5400
5200
5000
4800
4600

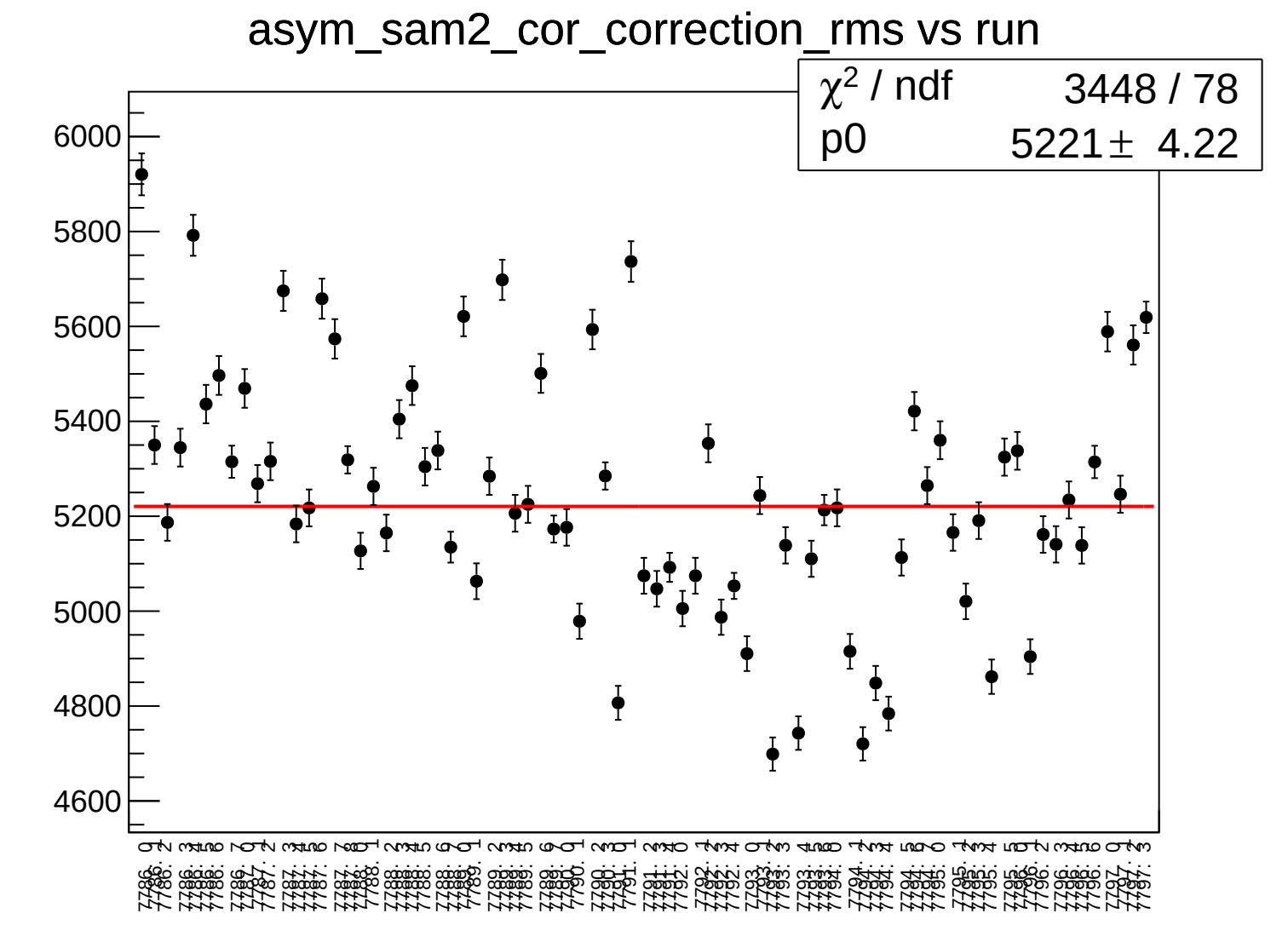

cor_asym_sam2_mean vs run
χ² / ndf 98.42 / 78
p0 109.6 ± 372
pull
Entries 79
Mean −422.5
Std Dev 0

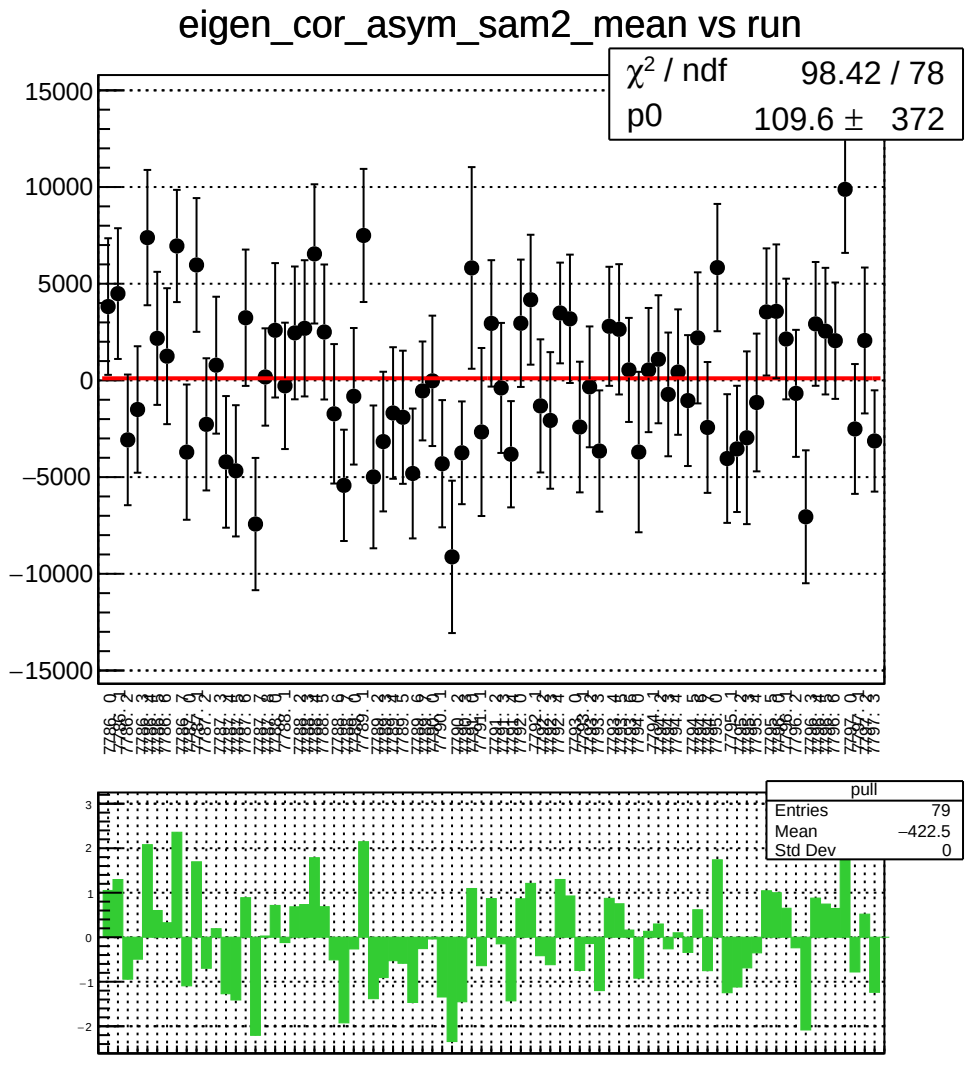

pull1D
Entries 79
Mean 0.00106
Std Dev 1.116

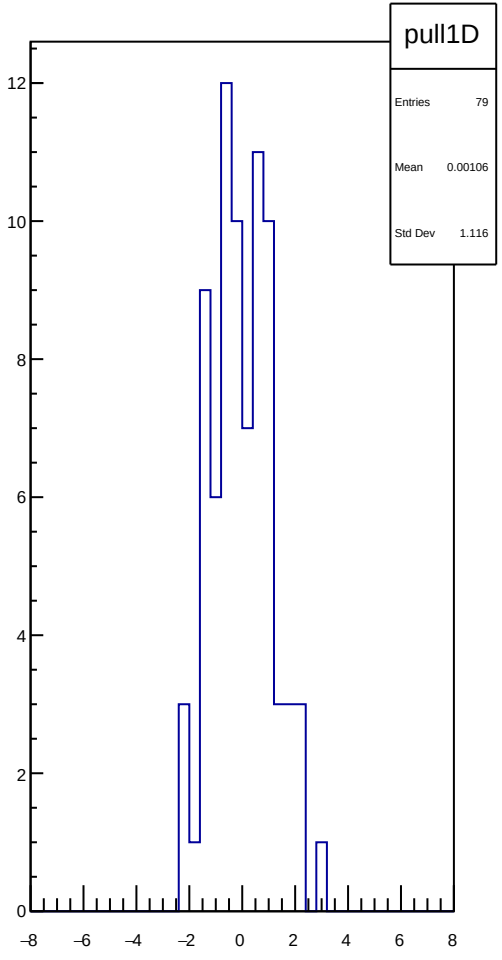

cor_asym_sam2_rms vs run
χ² / ndf 7114 / 78
p0 325 ± 0.263
500
450
400
350
300

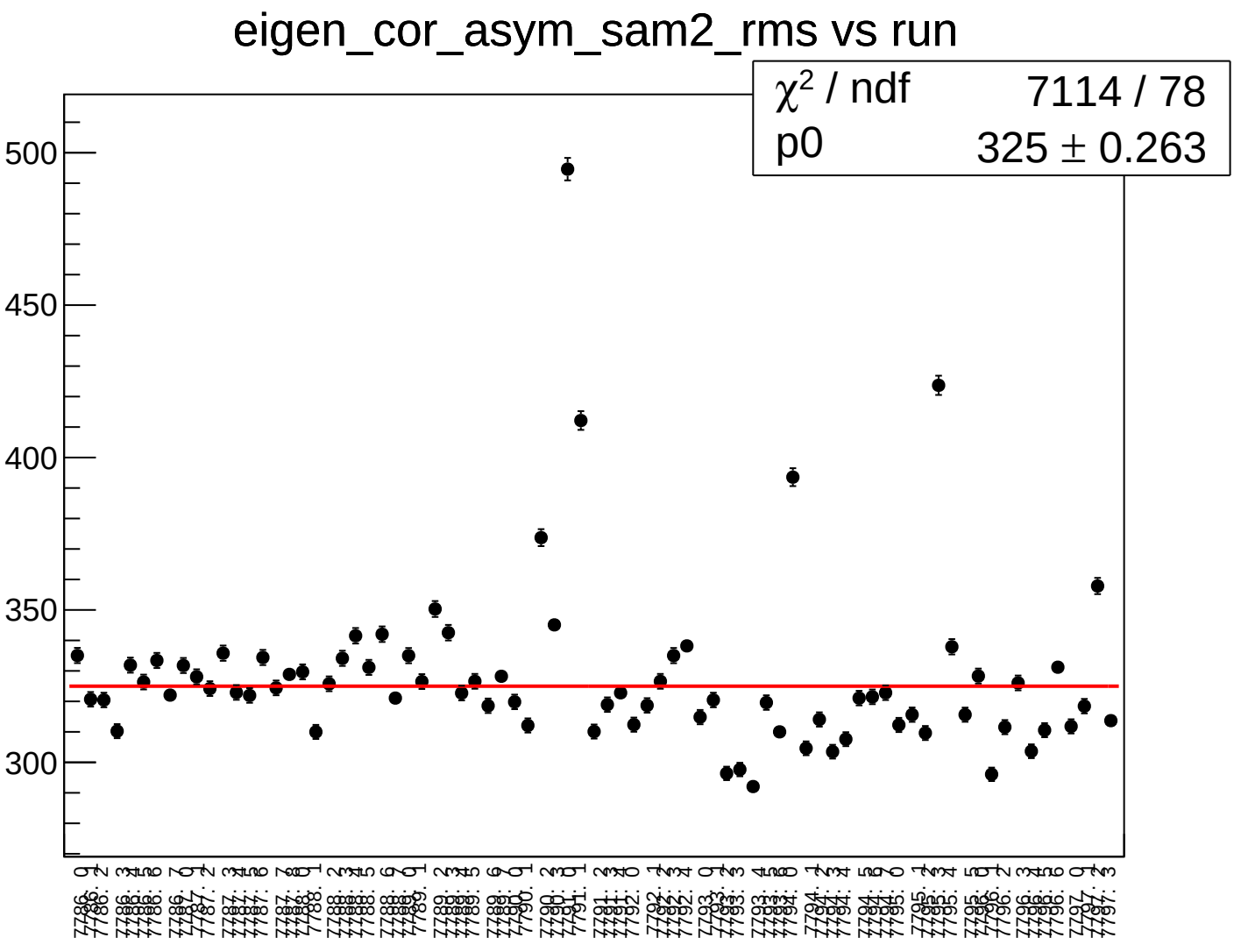

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 78.16 / 78
p0 −9138 ± 5968
200
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −49.87
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

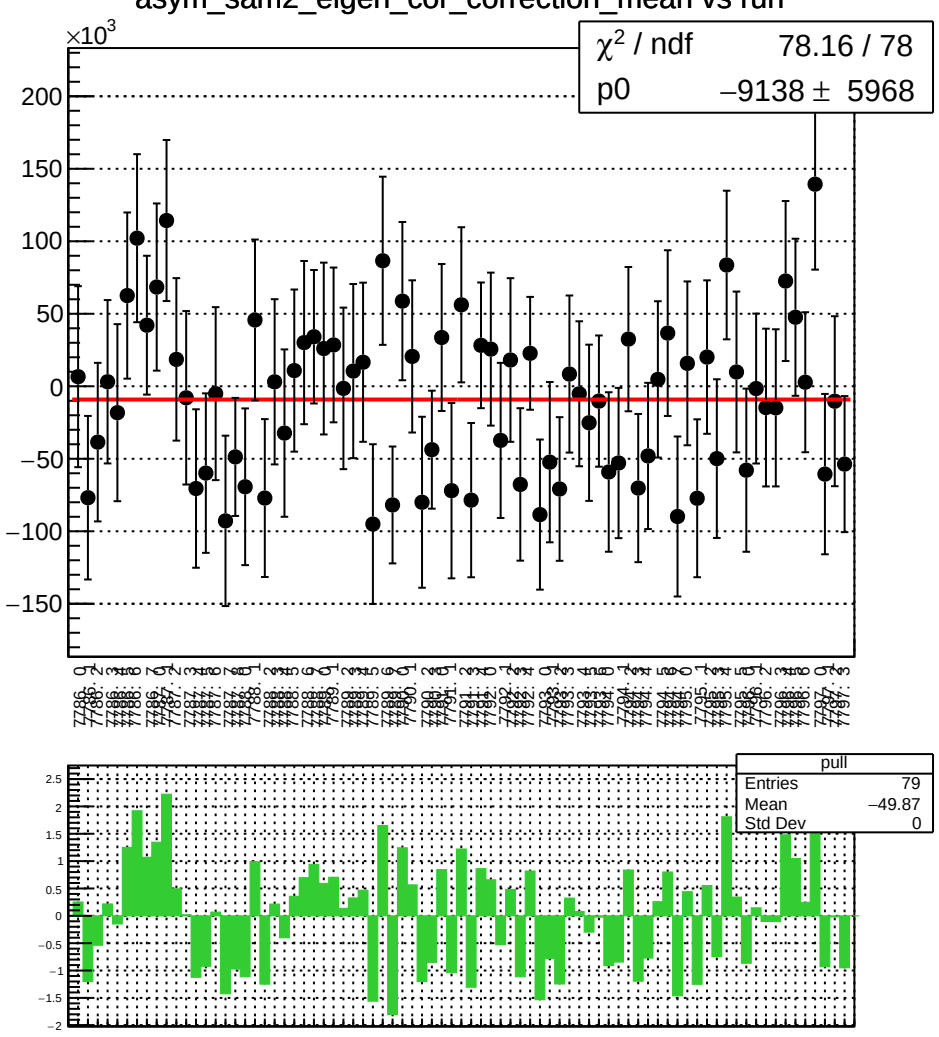

pull1D
Entries 79
Mean 0.01272
Std Dev 0.9946
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

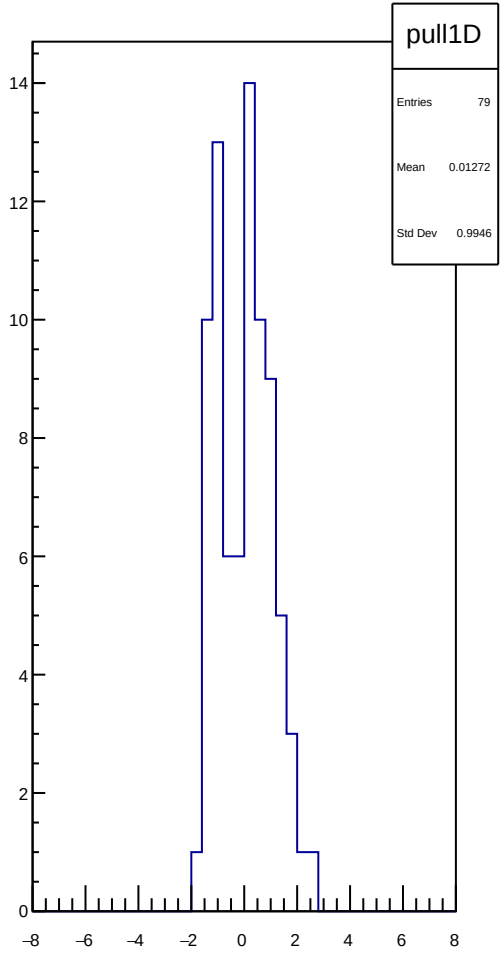

asym_sam2_cor_correction_rms vs run
χ² / ndf 3448 / 78
p0 5221 ± 4.22
6000
5800
5600
5400
5200
5000
4800
4600

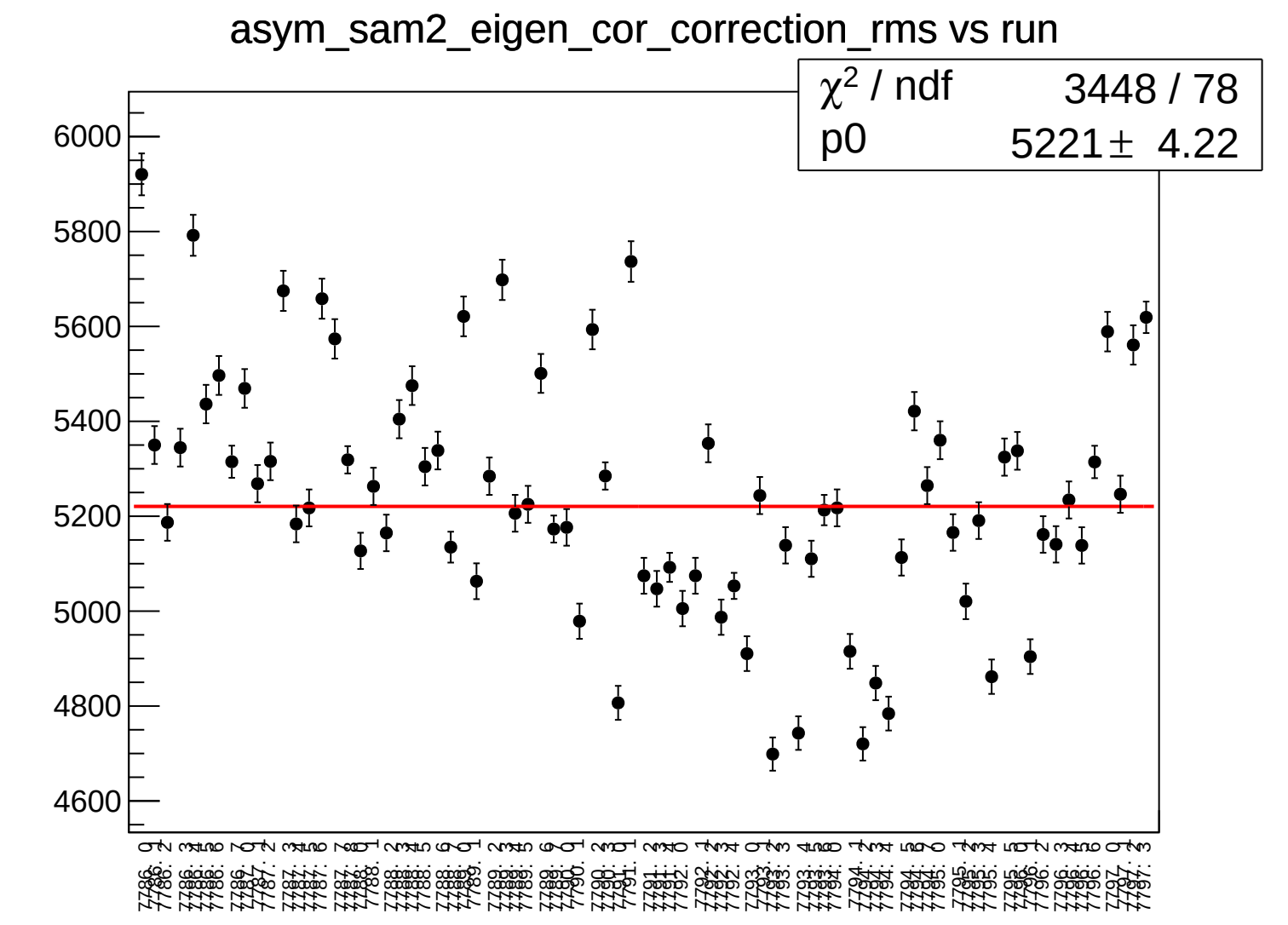

eigen_cor_asym_sam2_mean vs run
χ² / ndf 98.42 / 78
p0 109.6 ± 372
pull
Entries 79
Mean −422.5
Std Dev 0

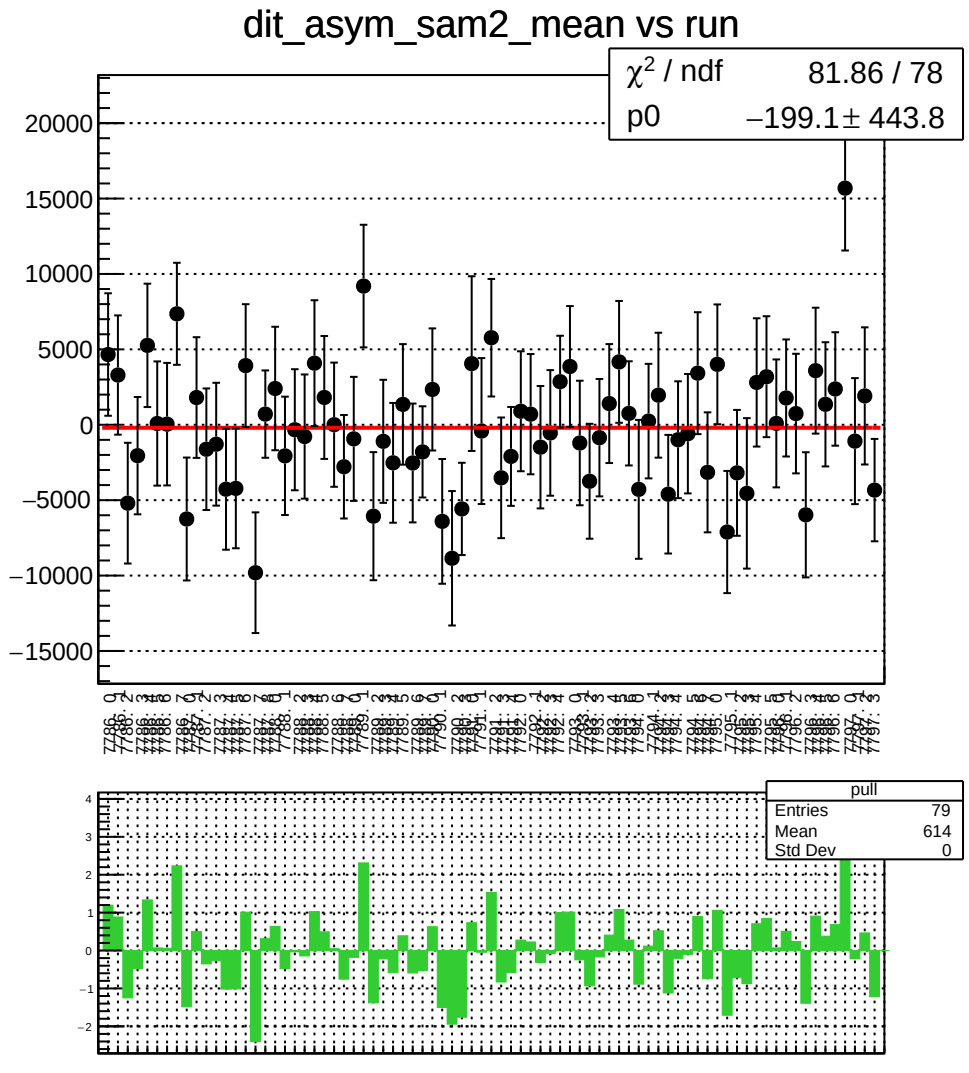

pull1D
Entries 79
Mean 0.00106
Std Dev 1.116

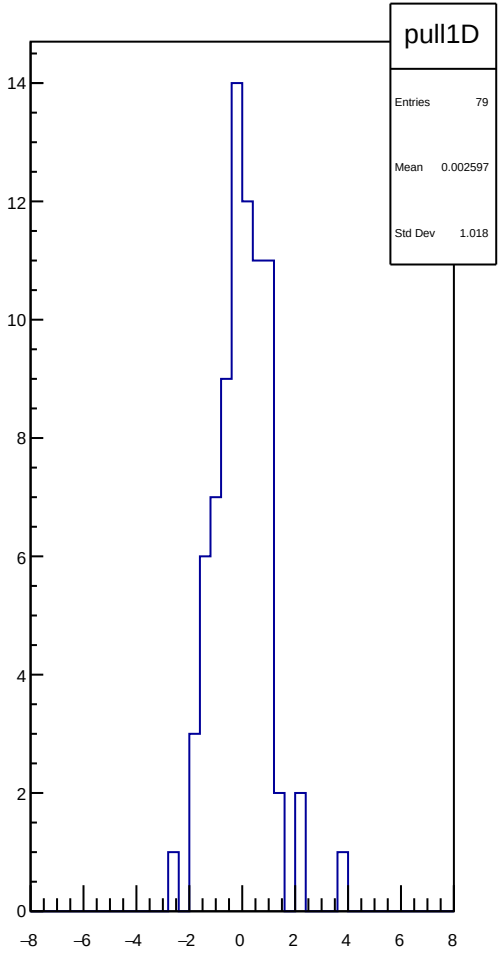

eigen_cor_asym_sam2_rms vs run
χ² / ndf 7114 / 78
p0 325 ± 0.263
500
450
400
350
300

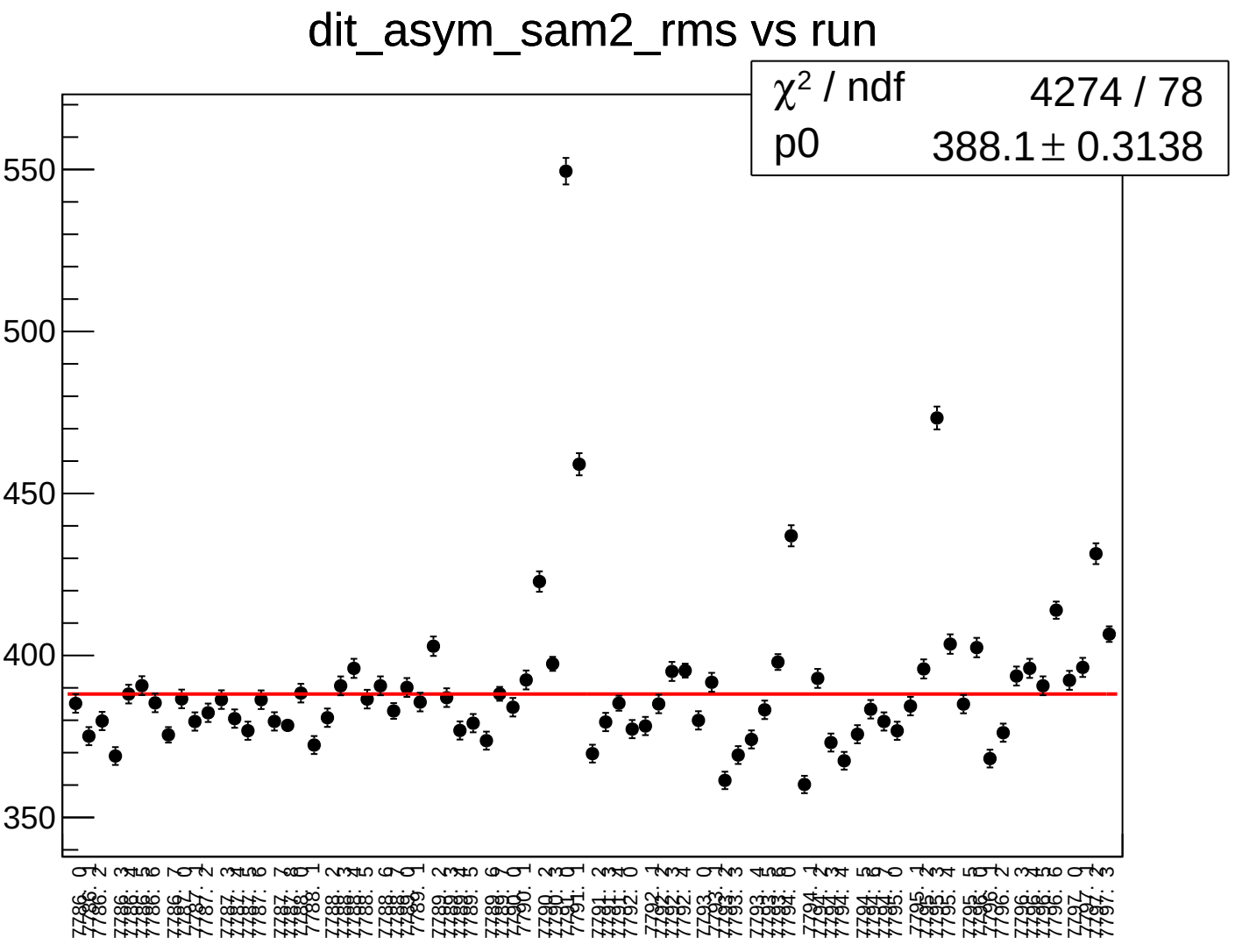

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.16 / 78
p0 −9138 ± 5968
200
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −49.87
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

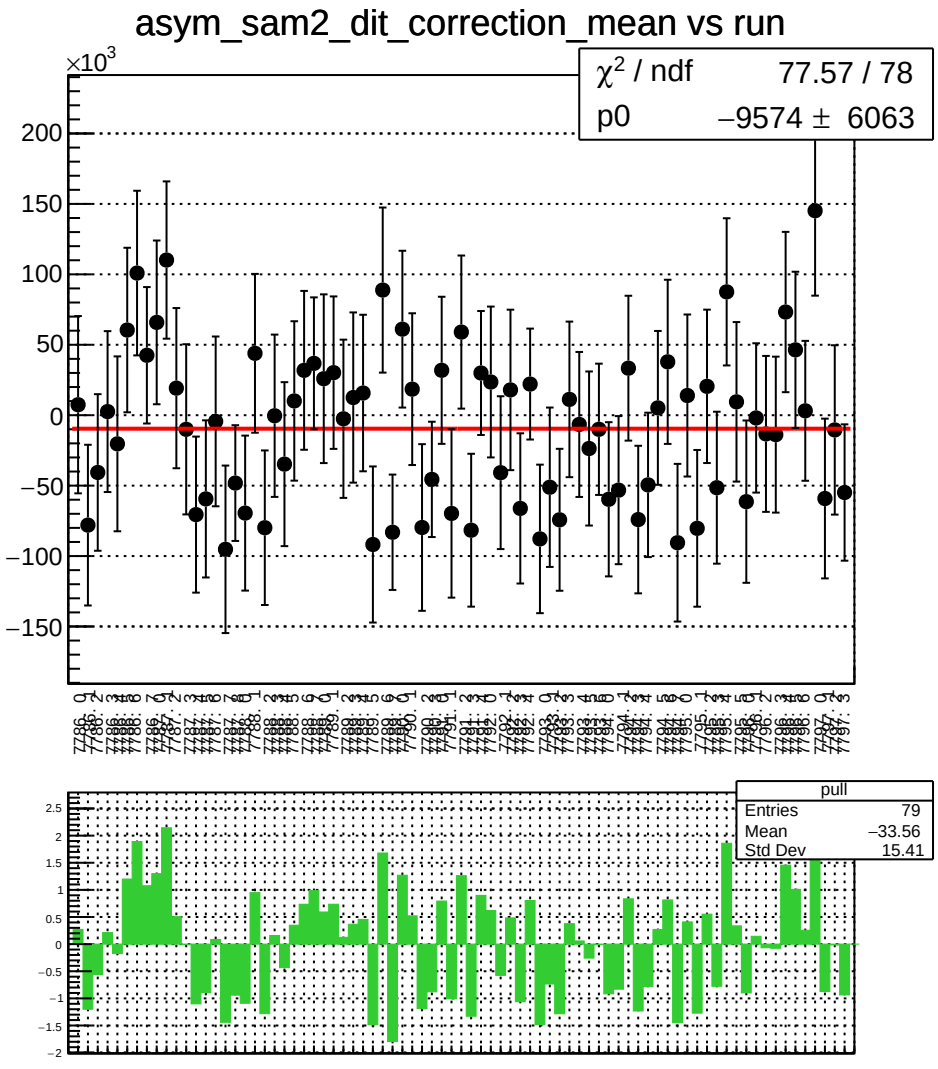

pull1D
Entries 79
Mean 0.01272
Std Dev 0.9946
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

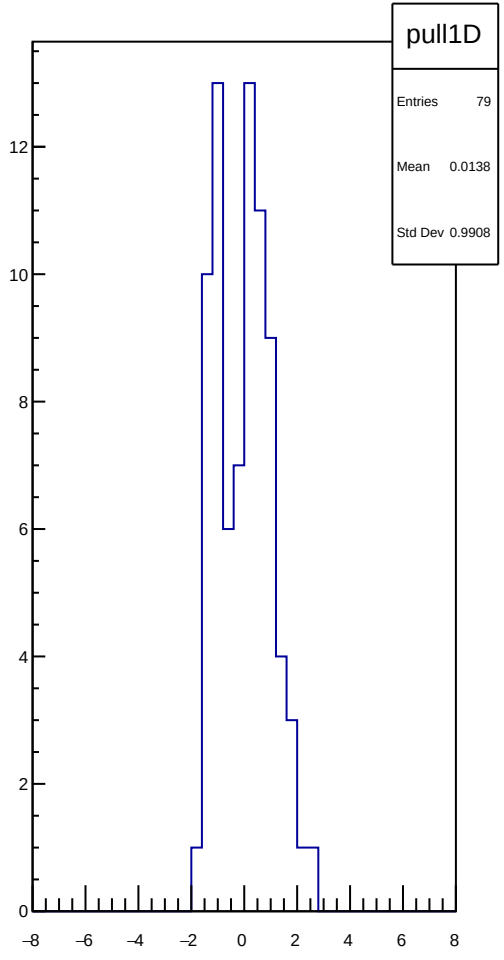

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 3448 / 78
p0 5221 ± 4.22
6000
5800
5600
5400
5200
5000
4800
4600

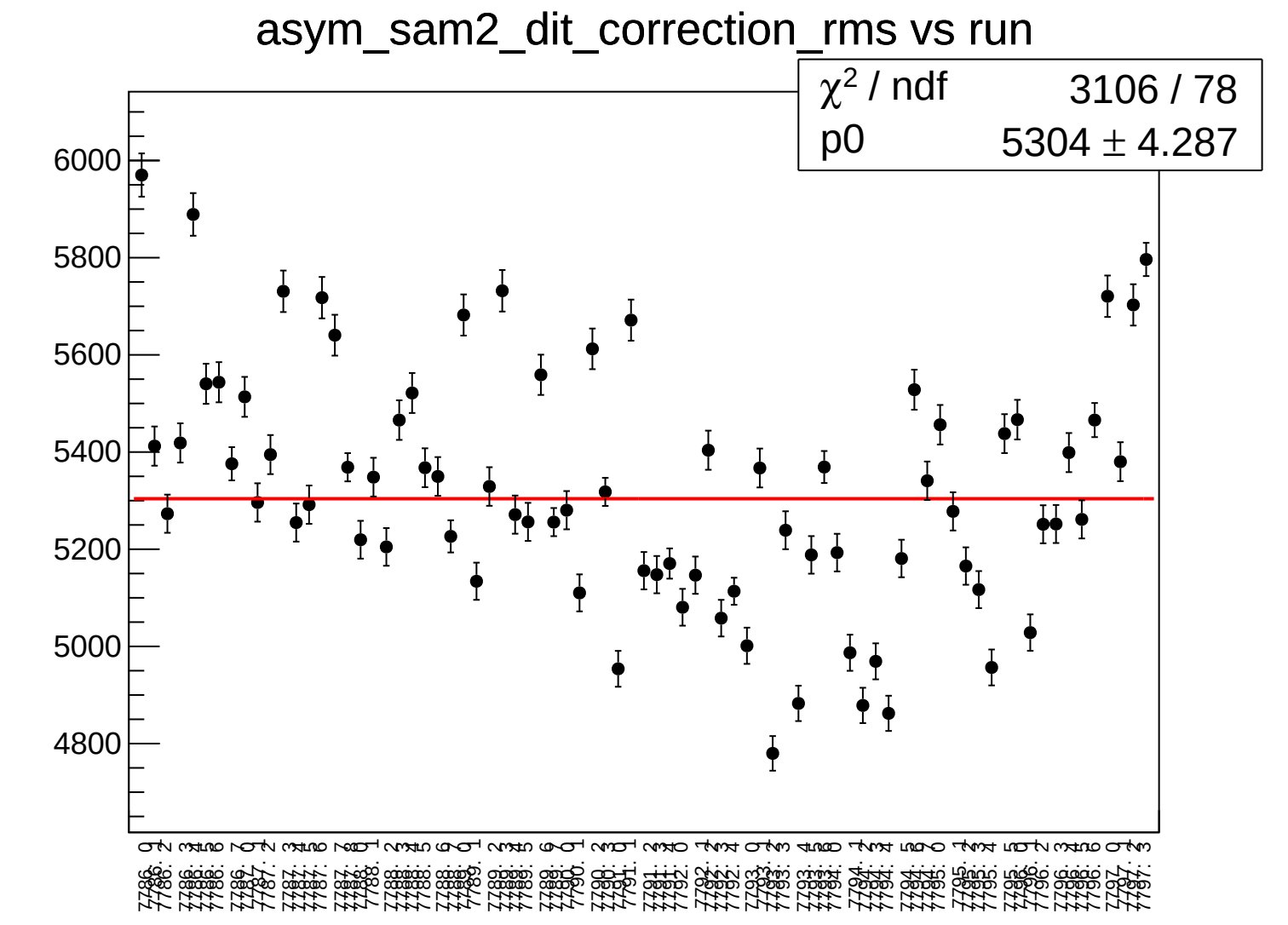

dit_asym_sam2_mean vs run
χ² / ndf 81.86 / 78
p0 −199.1± 443.8
pull
Entries 79
Mean 614
Std Dev 0

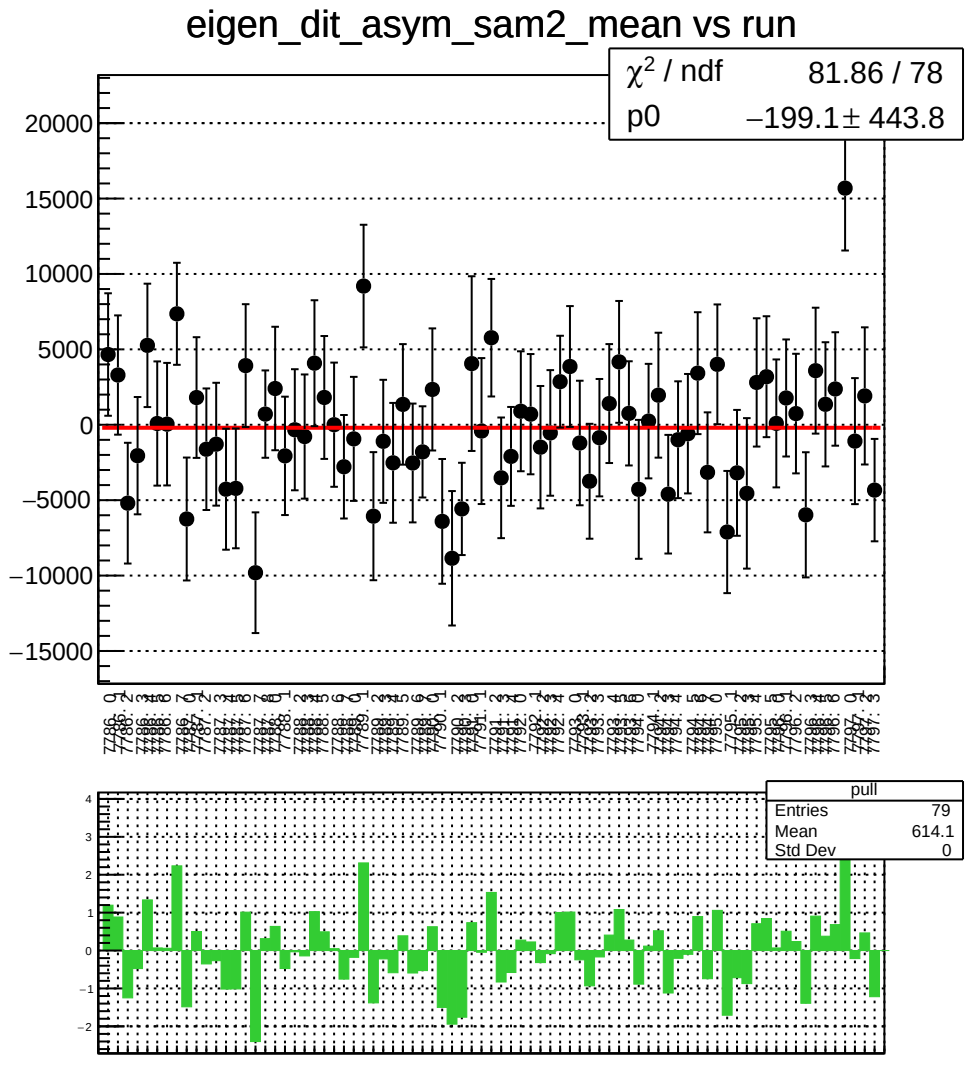

pull1D
Entries 79
Mean 0.002597
Std Dev 1.018

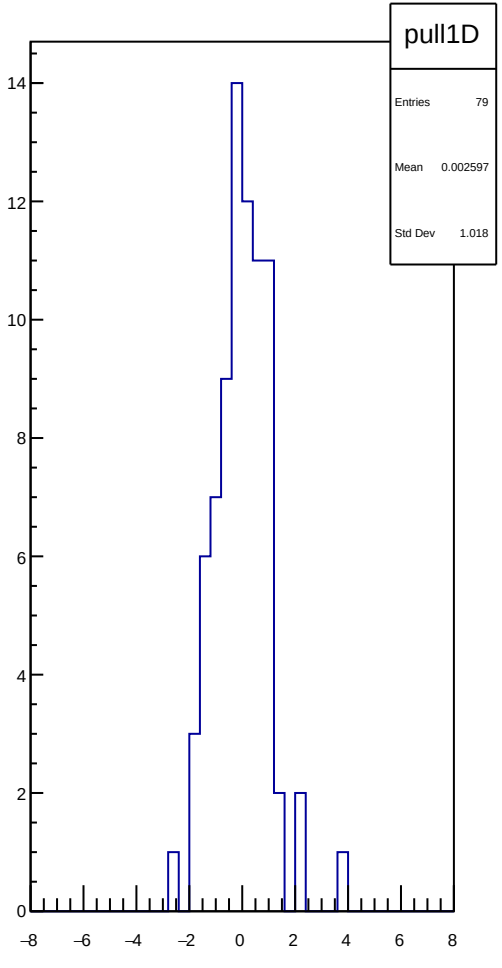

dit_asym_sam2_rms vs run
χ² / ndf 4274 / 78
p0 388.1 ± 0.3138
550
500
450
400
350

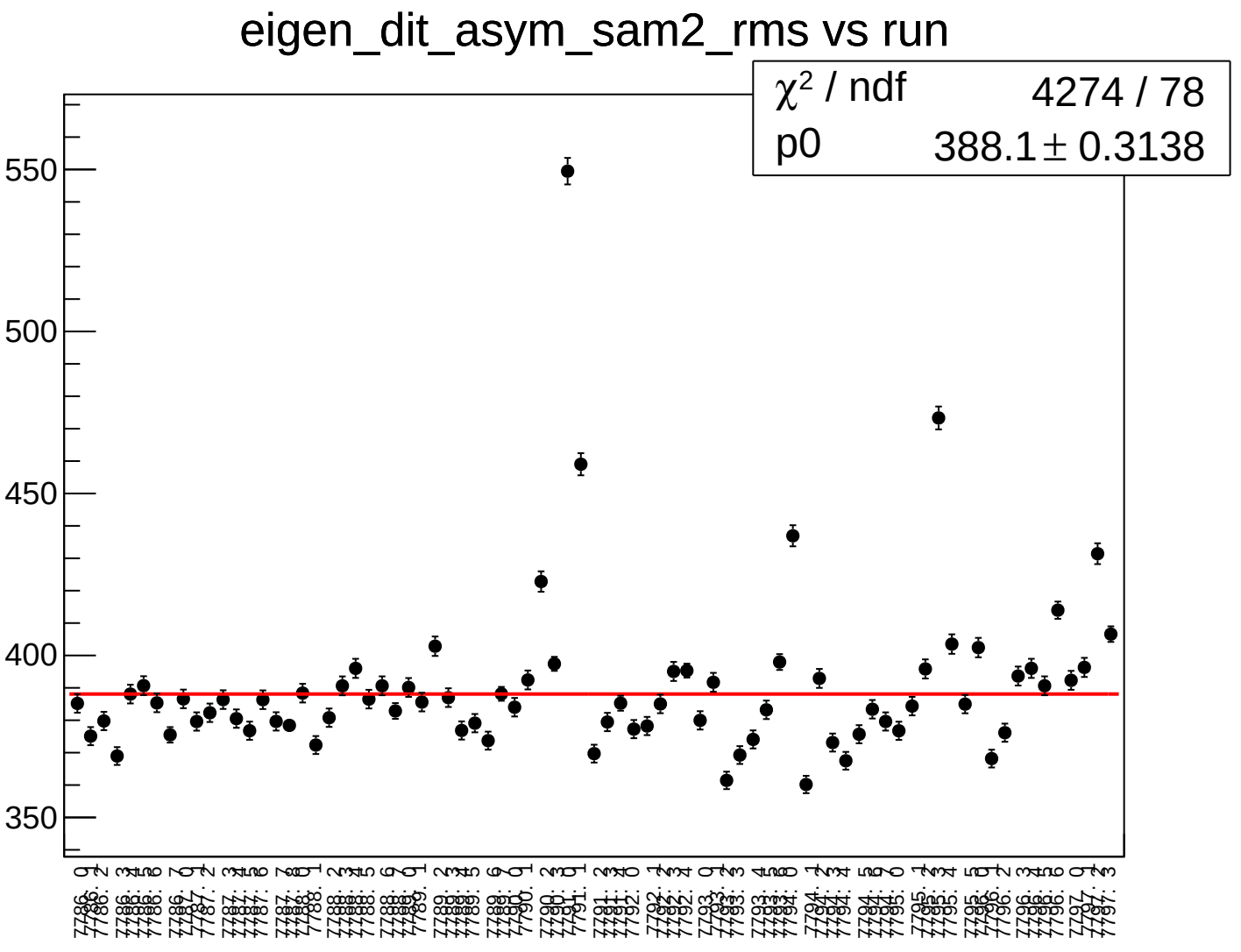

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 77.57 / 78
p0 −9574 ± 6063
200
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −33.56
Std Dev 15.41
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

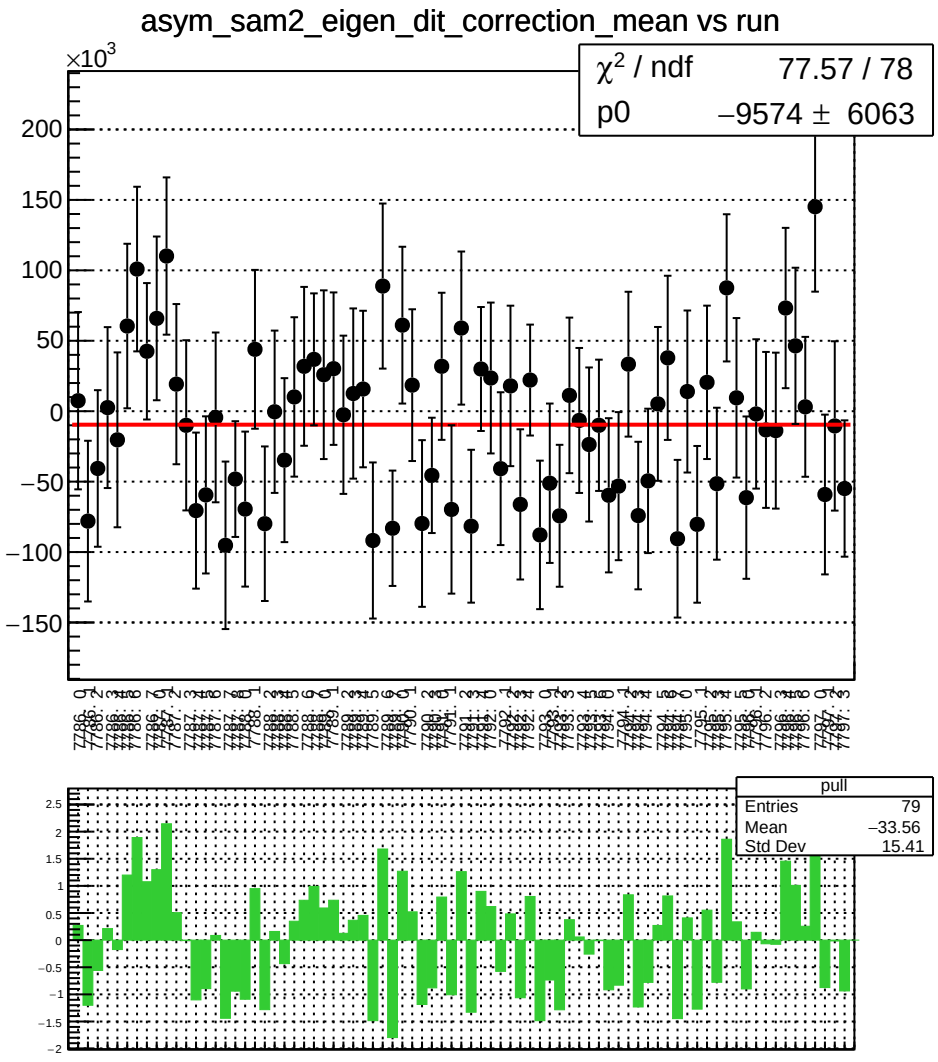

pull1D
Entries 79
Mean 0.0138
Std Dev 0.9908
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

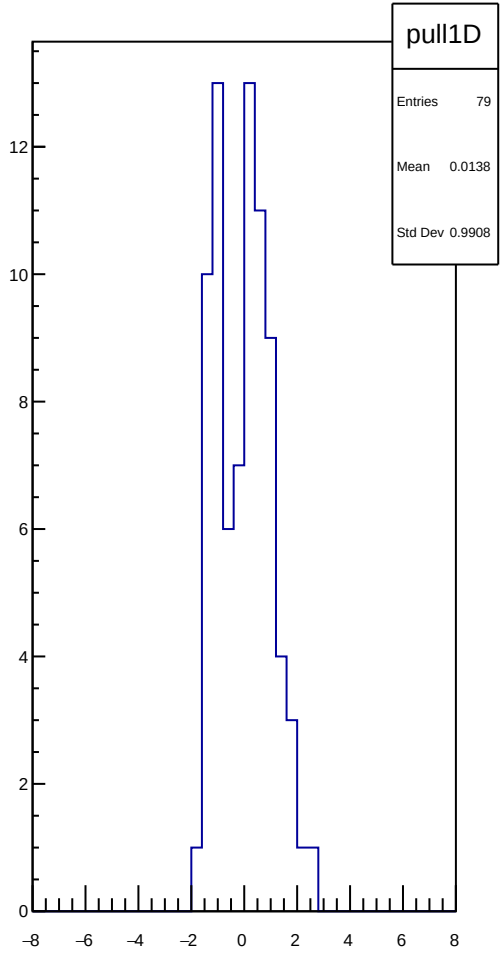

asym_sam2_dit_correction_rms vs run
χ² / ndf 3106 / 78
p0 5304 ± 4.287
6000
5800
5600
5400
5200
5000
4800

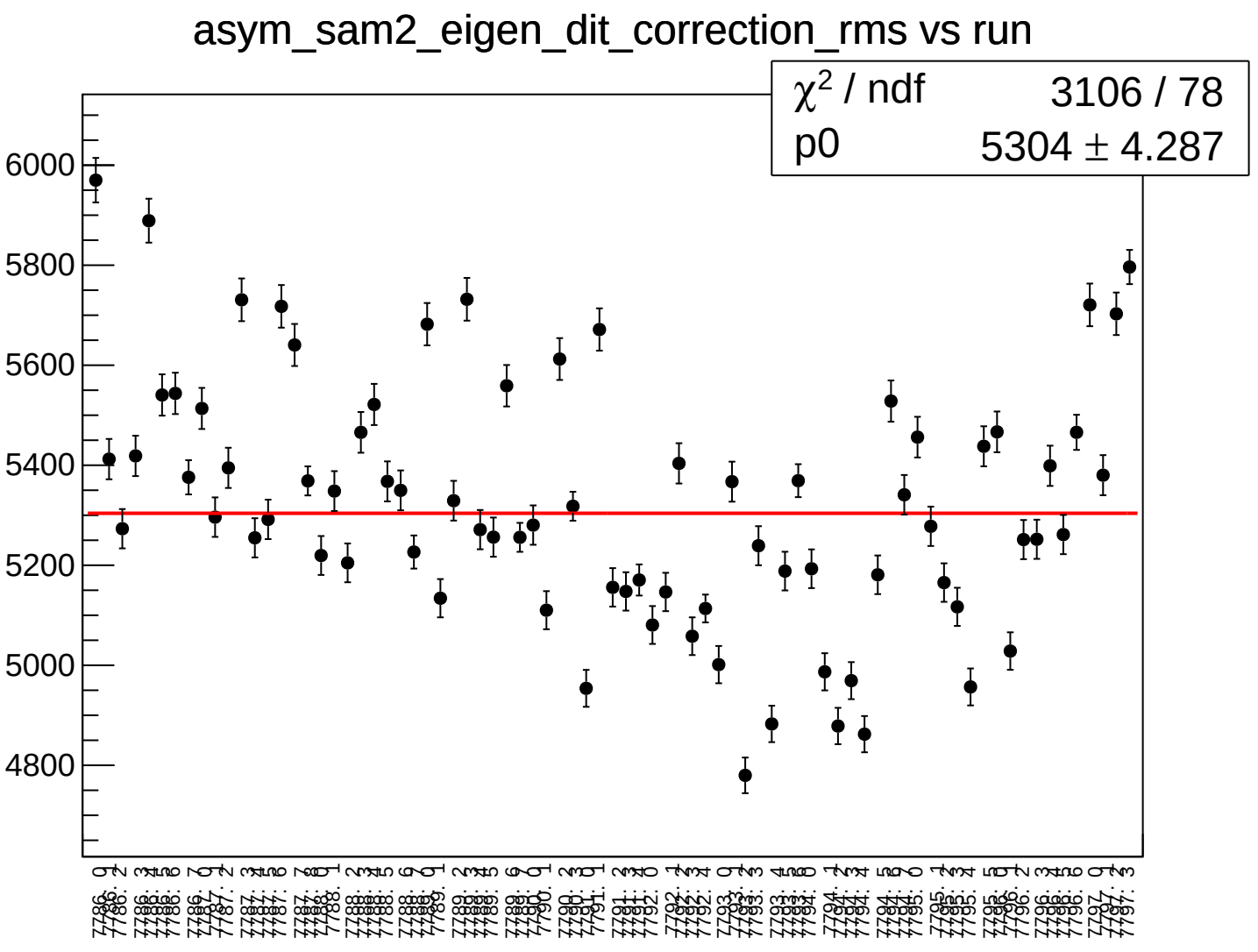

eigen_dit_asym_sam2_mean vs run
χ² / ndf 81.86 / 78
p0 −199.1± 443.8
pull
Entries 79
Mean 614.1
Std Dev 0

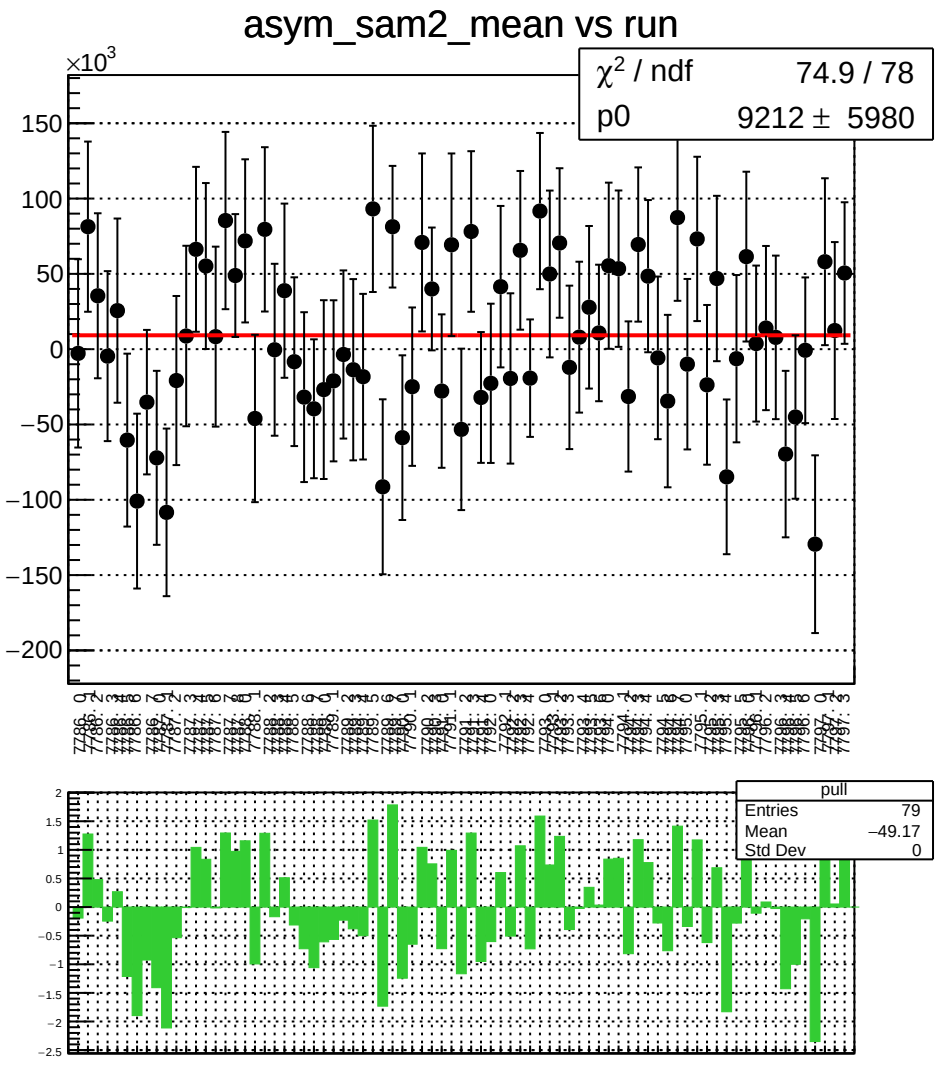

pull1D
Entries 79
Mean 0.002597
Std Dev 1.018

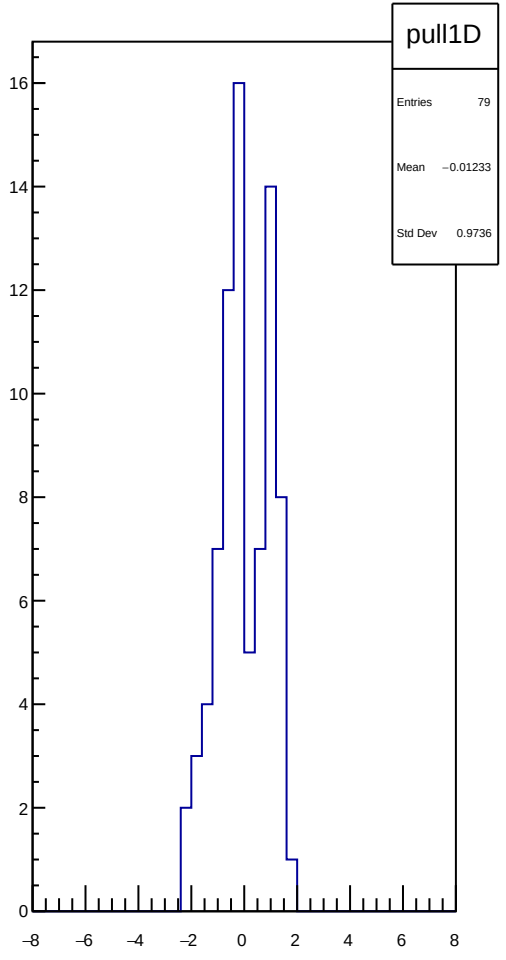

eigen_dit_asym_sam2_rms vs run
χ² / ndf 4274 / 78
p0 388.1 ± 0.3138
550
500
450
400
350

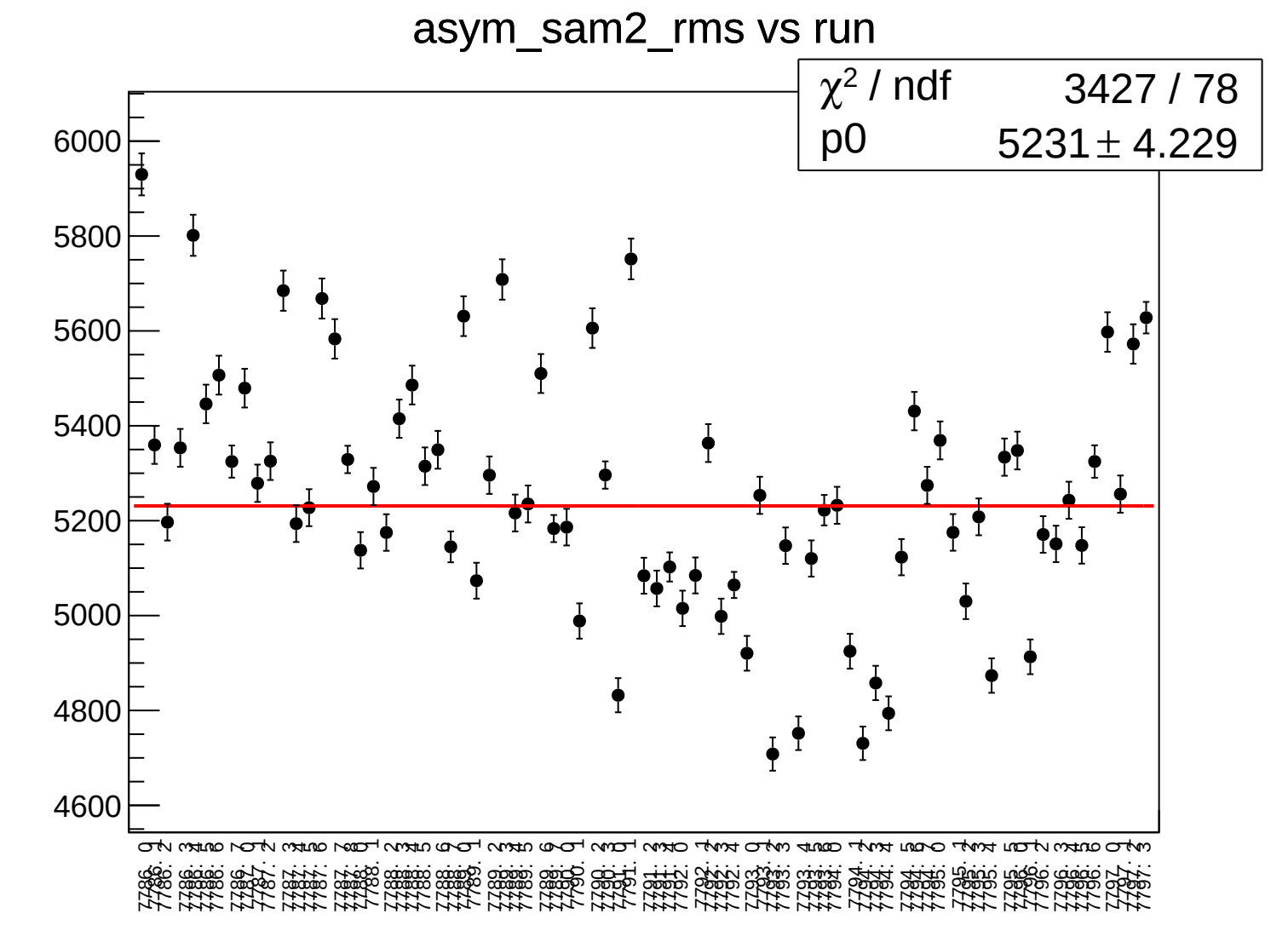

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.57 / 78
p0 −9574 ± 6063
200
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −33.56
Std Dev 15.41
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

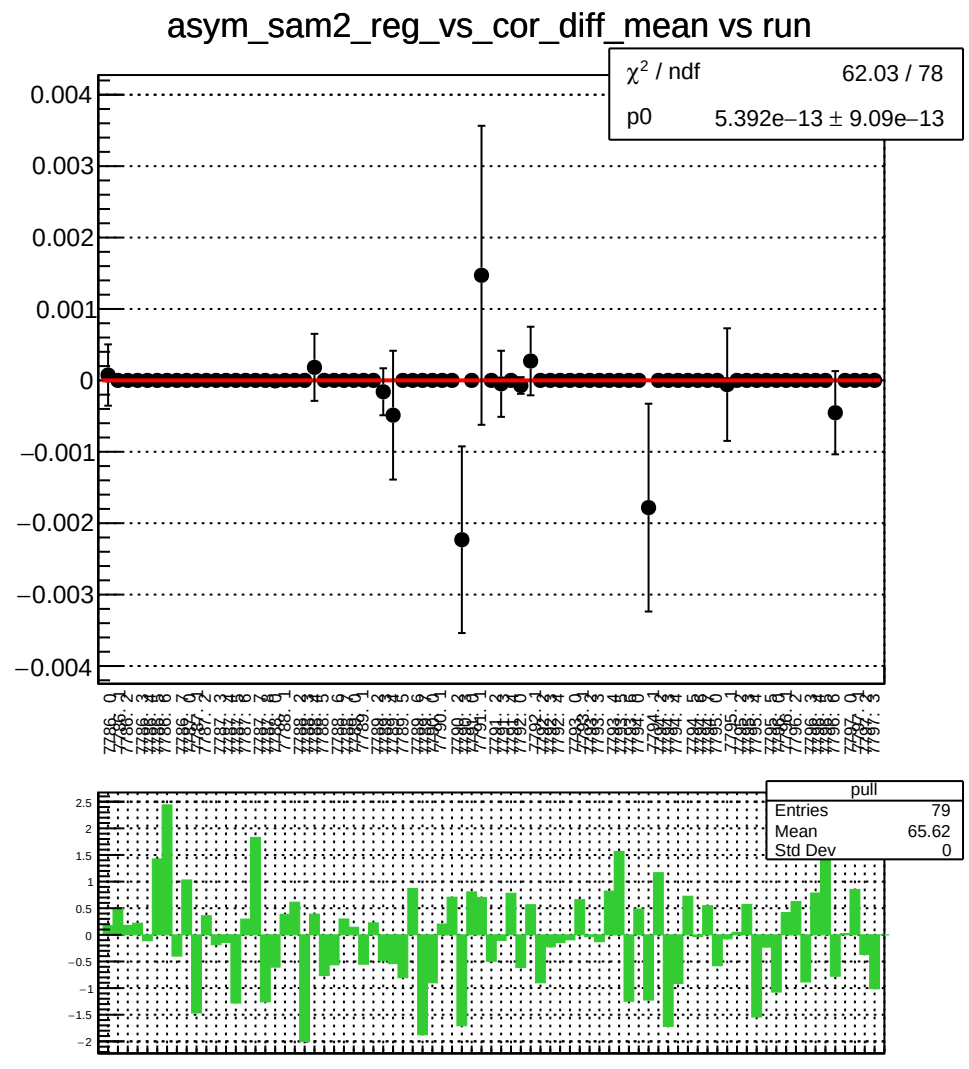

pull1D
Entries 79
Mean 0.0138
Std Dev 0.9908
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

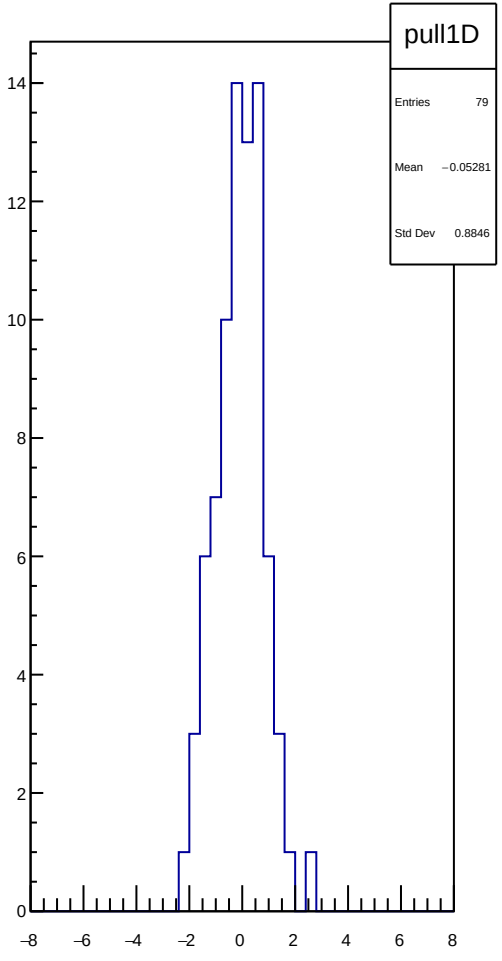

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 3106 / 78
p0 5304 ± 4.287
6000
5800
5600
5400
5200
5000
4800

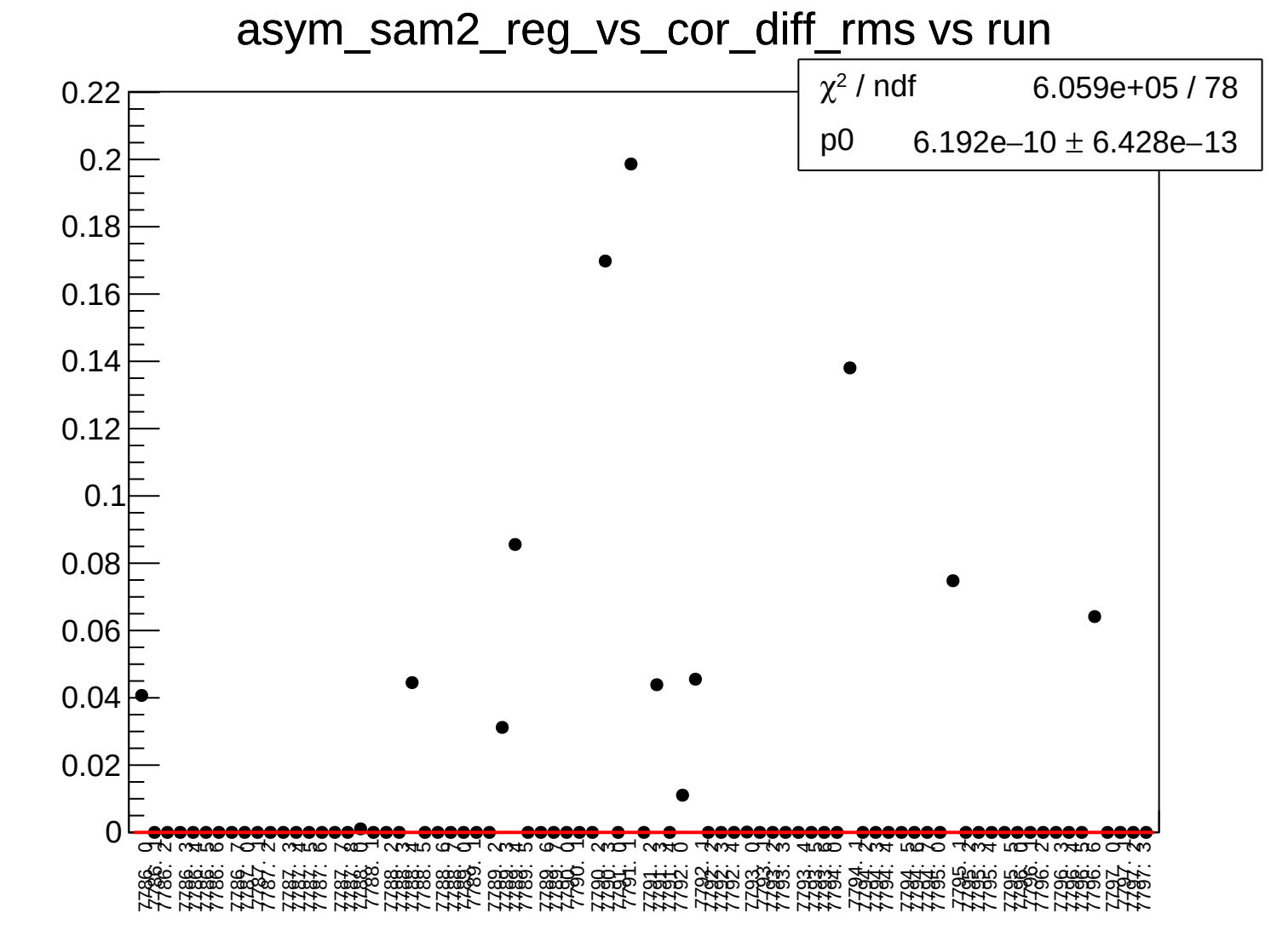

asym_sam2_mean vs run
×10^3
χ² / ndf 74.9 / 78
p0 9212 ± 5980
150
100
50
0
−50
−100
−150
−200
pull
Entries 79
Mean −49.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

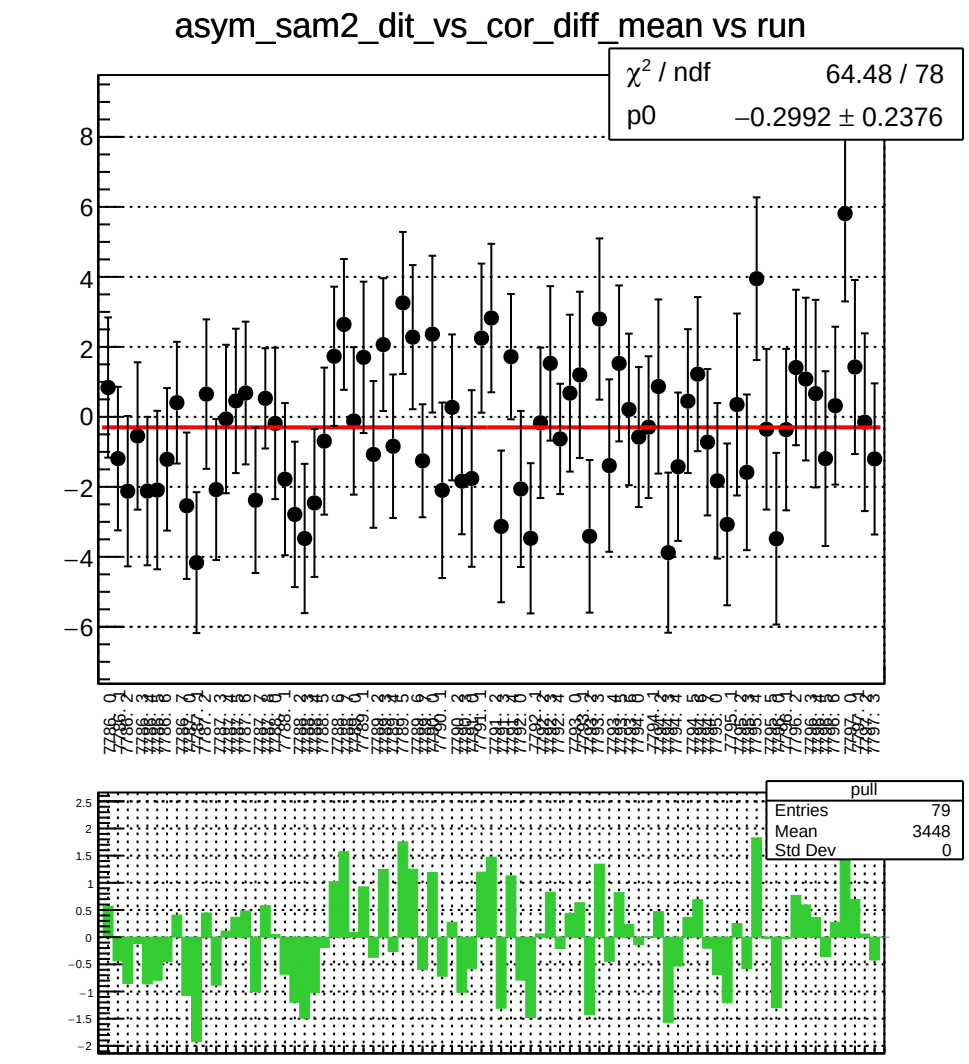

pull1D
Entries 79
Mean −0.01233
Std Dev 0.9736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

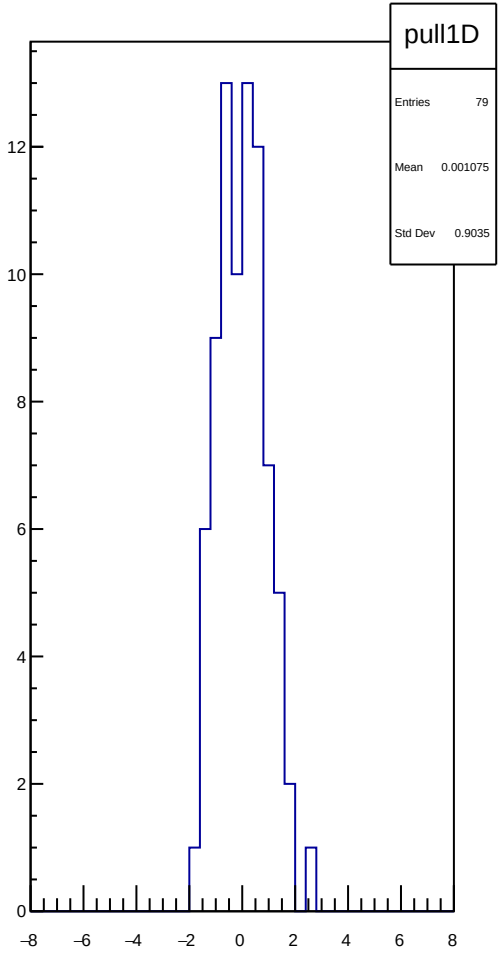

asym_sam2_rms vs run
χ² / ndf 3427 / 78
p0 5231 ± 4.229
6000
5800
5600
5400
5200
5000
4800
4600

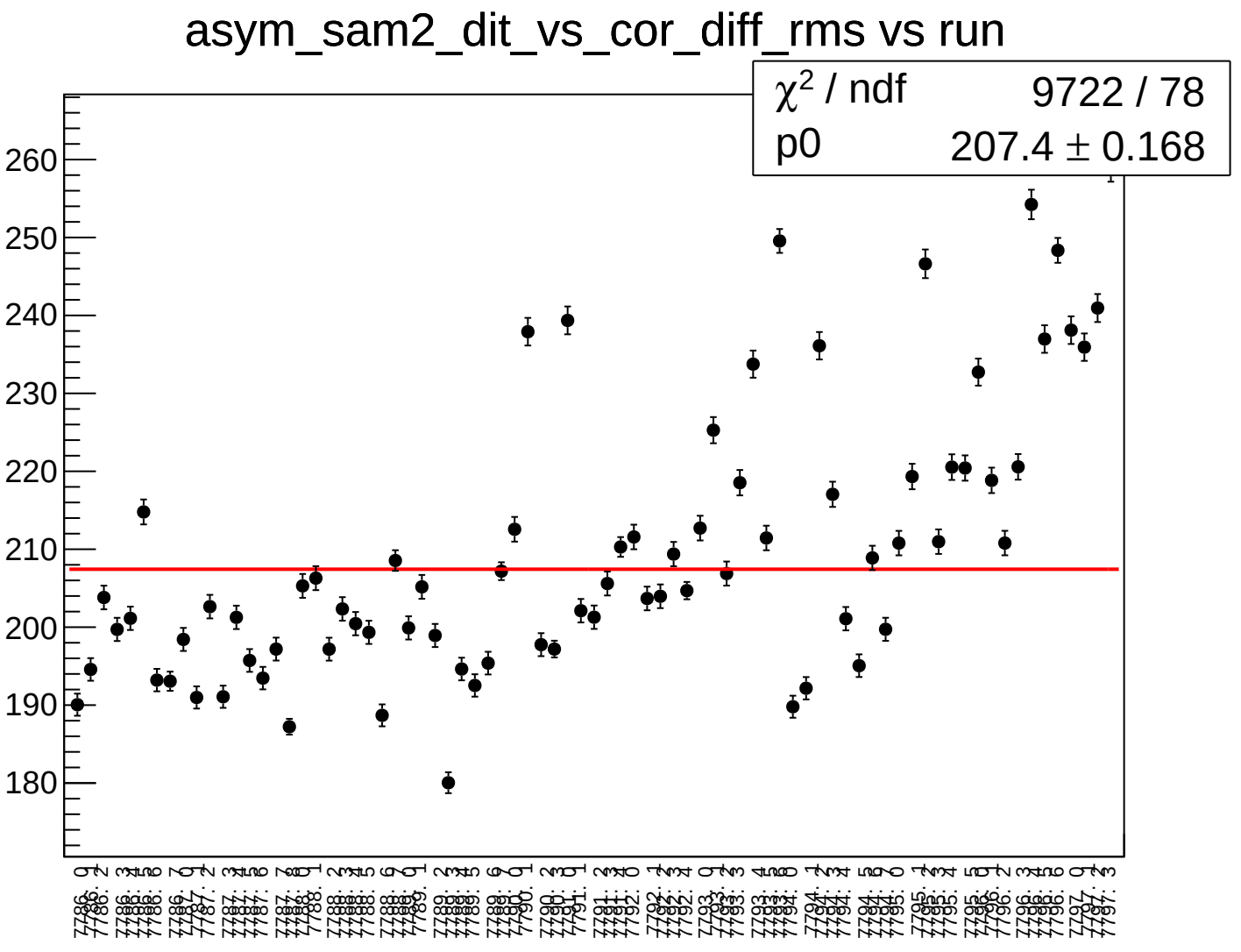

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 62.03 / 78
p0 5.392e−13 ± 9.09e−13
pull
Entries 79
Mean 65.62
Std Dev 0

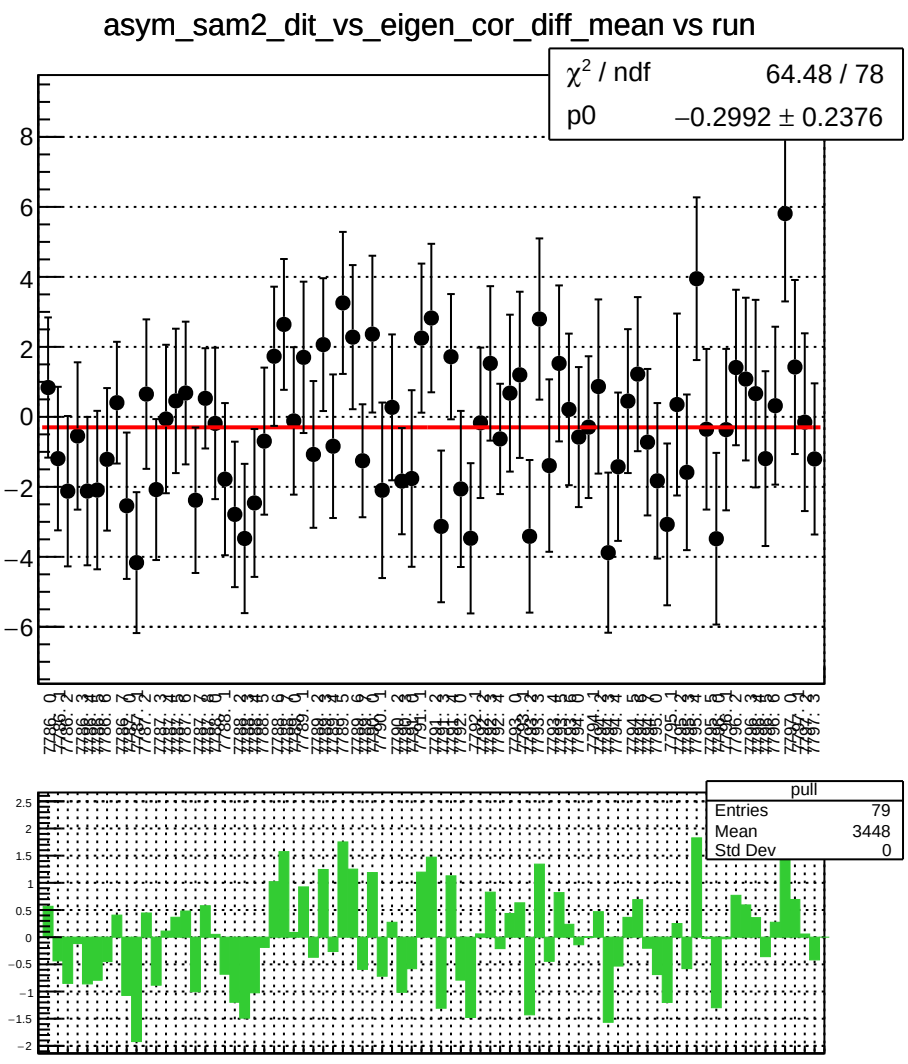

pull1D
Entries 79
Mean −0.05281
Std Dev 0.8846

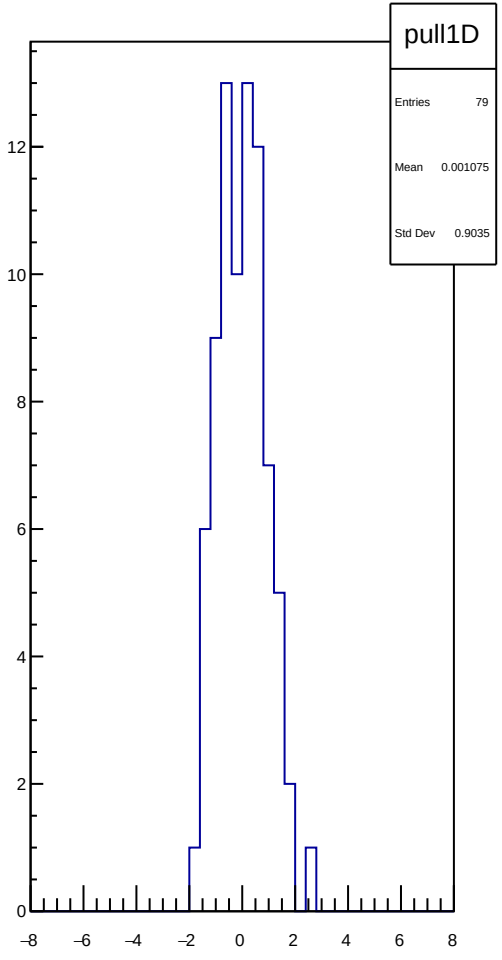

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 6.059e+05 / 78
p0 6.192e−10 ± 6.428e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

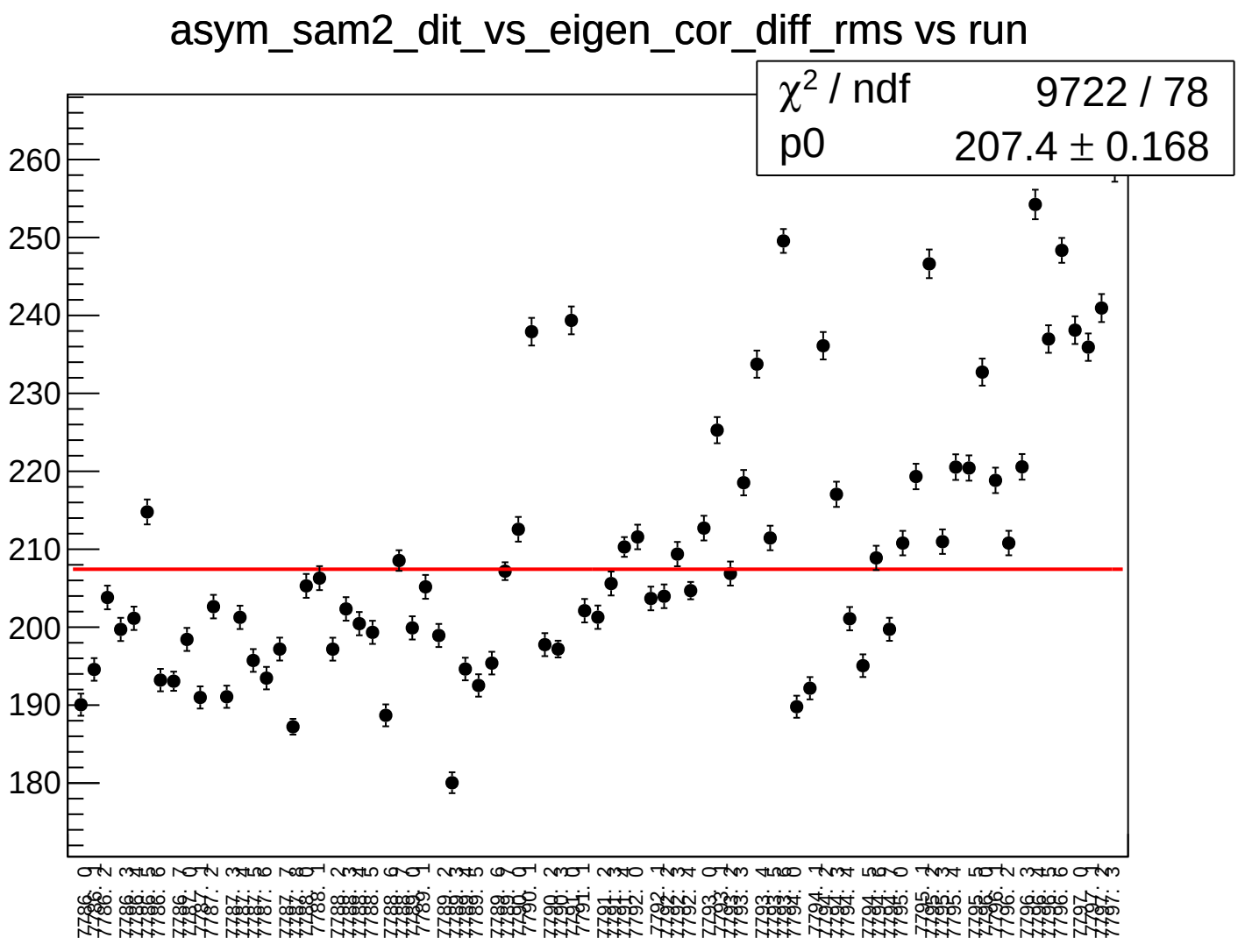

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 64.48 / 78
p0 −0.2992 ± 0.2376
pull
Entries 79
Mean 3448
Std Dev 0

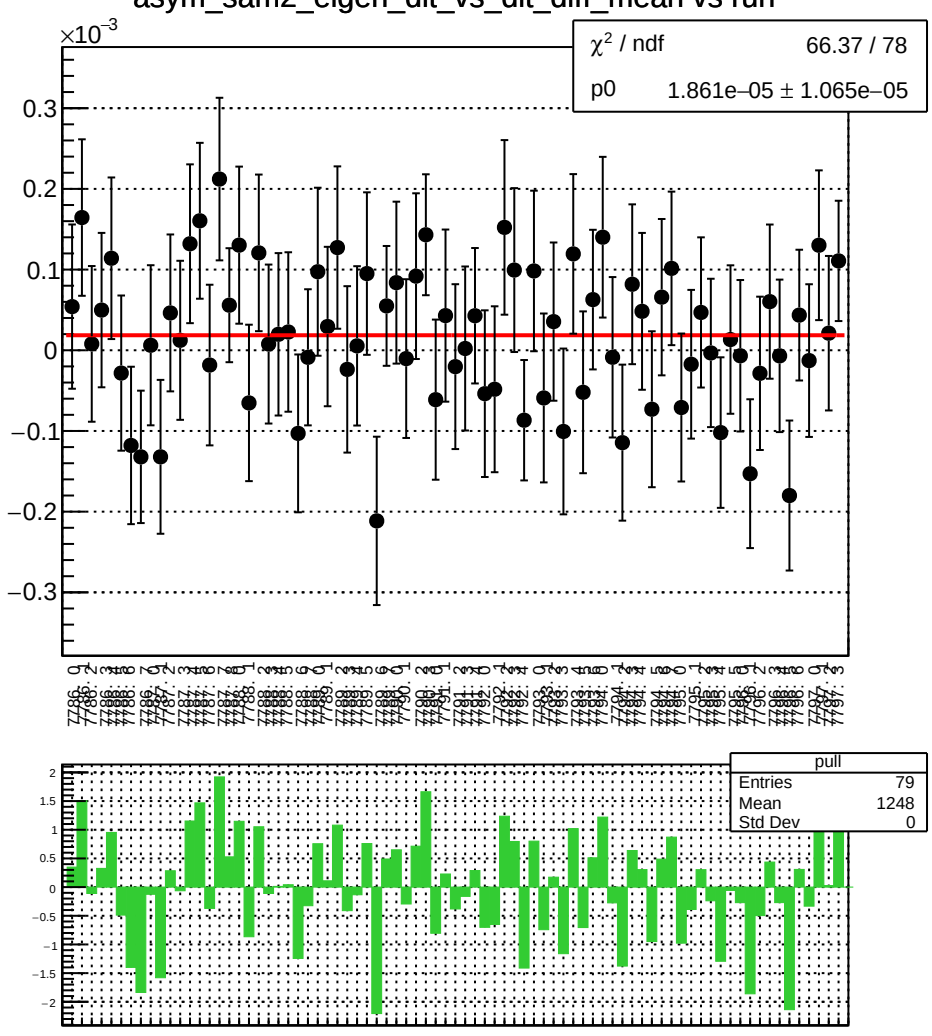

pull1D
Entries 79
Mean 0.001075
Std Dev 0.9035

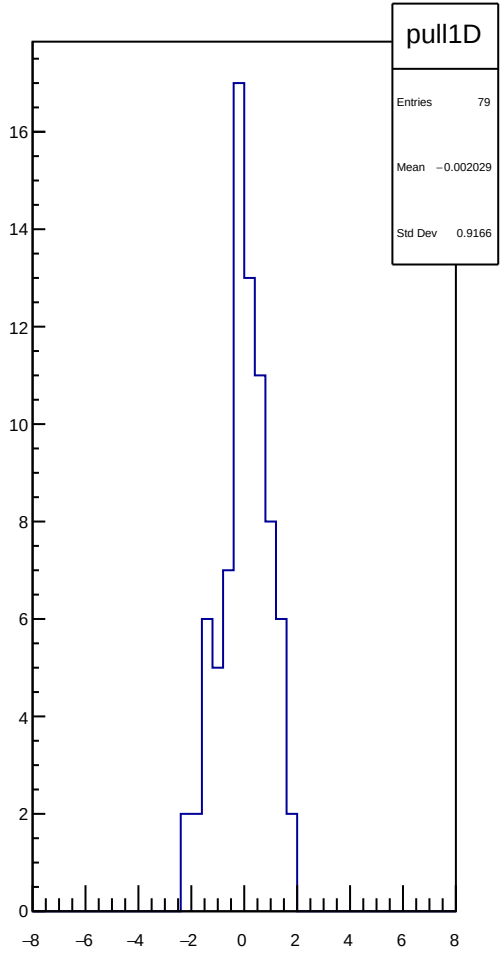

asym_sam2_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9722 / 78
p0 207.4 ± 0.168
260
250
240
230
220
210
200
190
180

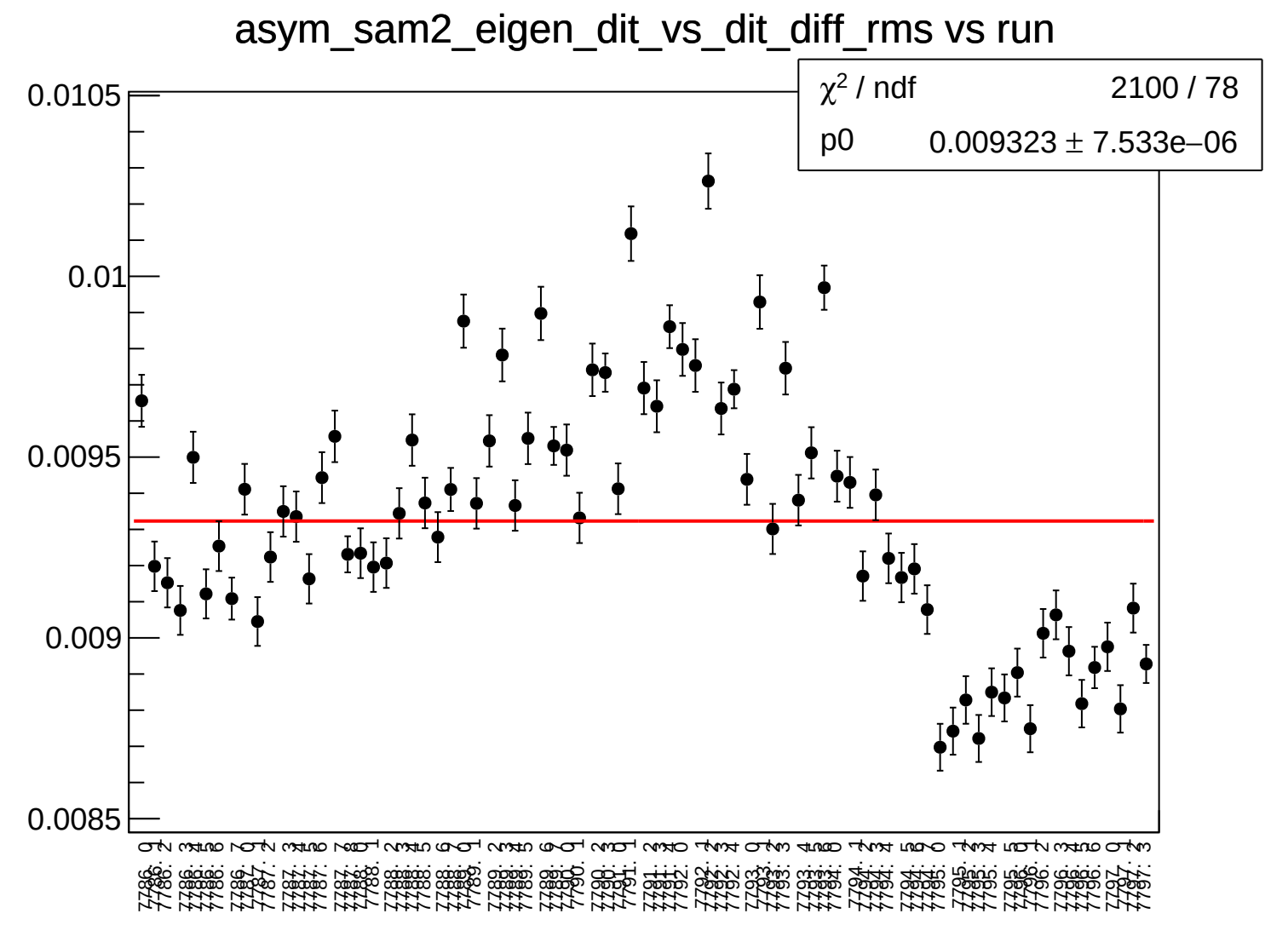

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.48 / 78
p0 −0.2992 ± 0.2376
pull
Entries 79
Mean 3448
Std Dev 0

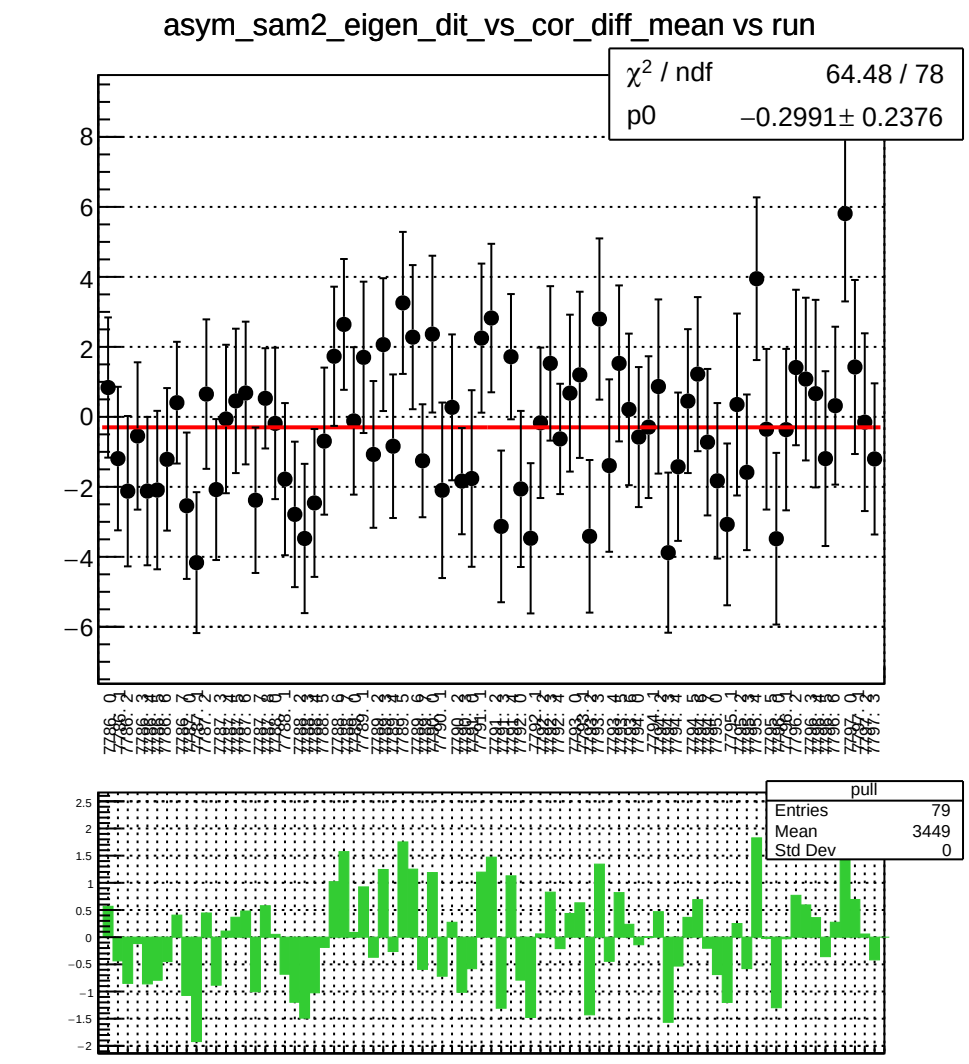

pull1D
Entries 79
Mean 0.001075
Std Dev 0.9035

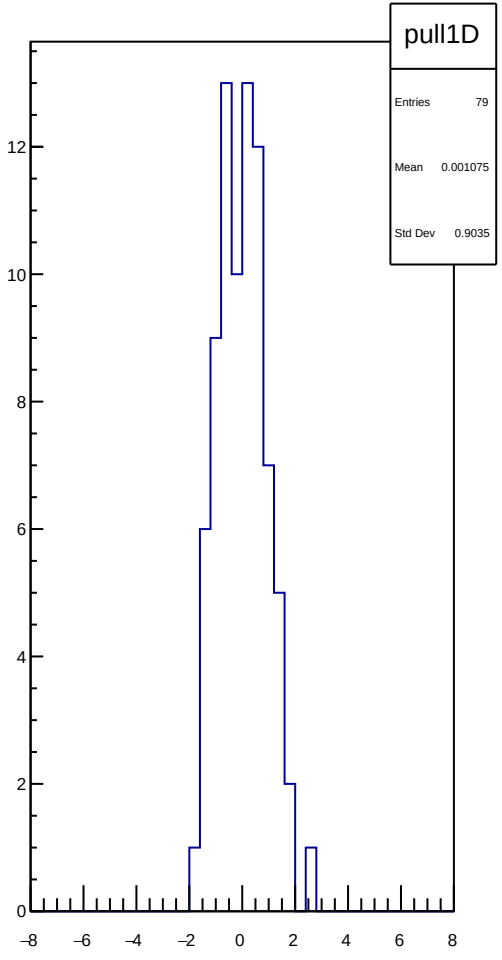

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9722 / 78
p0 207.4 ± 0.168
260
250
240
230
220
210
200
190
180

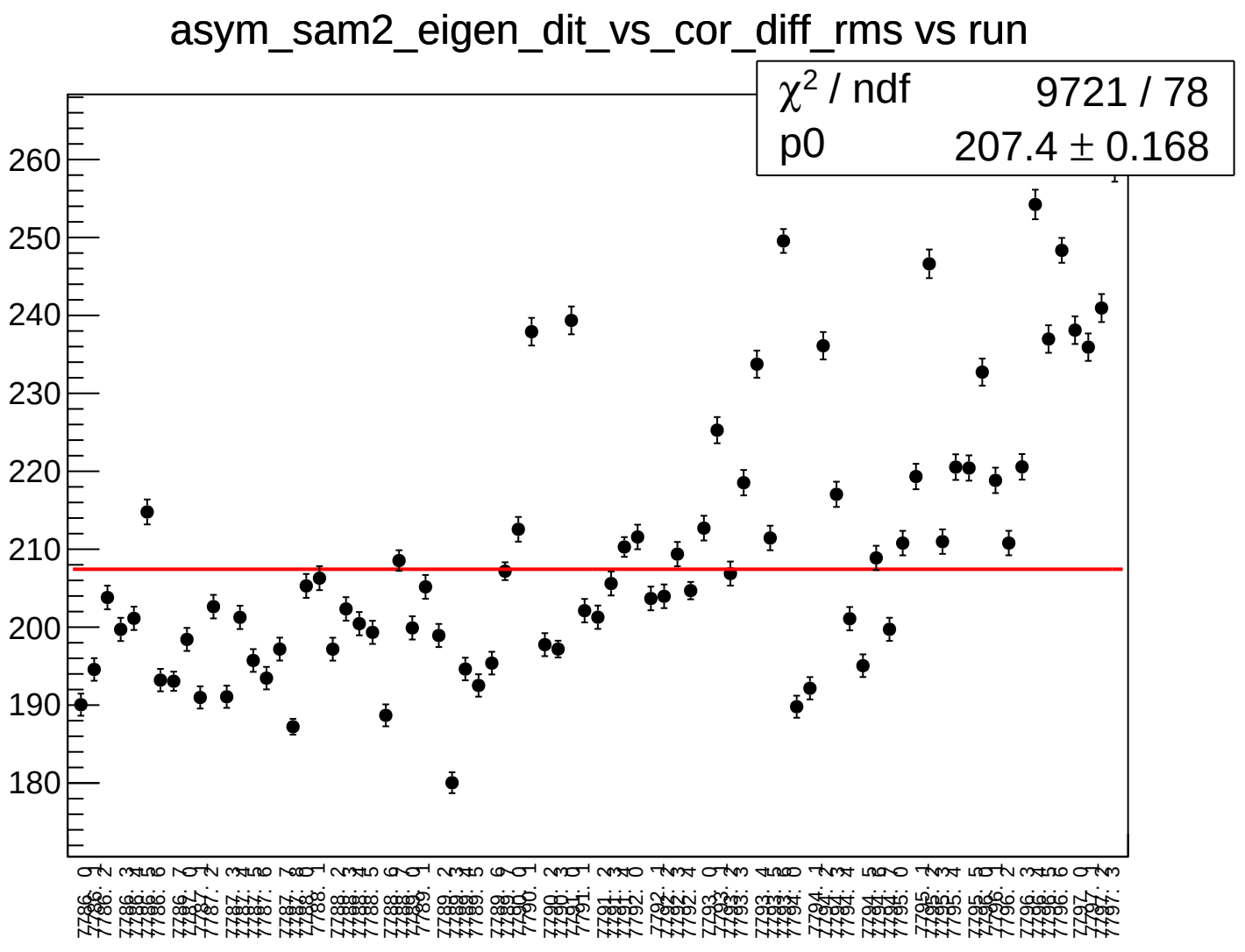

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.37 / 78
p0 1.861e−05 ± 1.065e−05
pull
Entries 79
Mean 1248
Std Dev 0

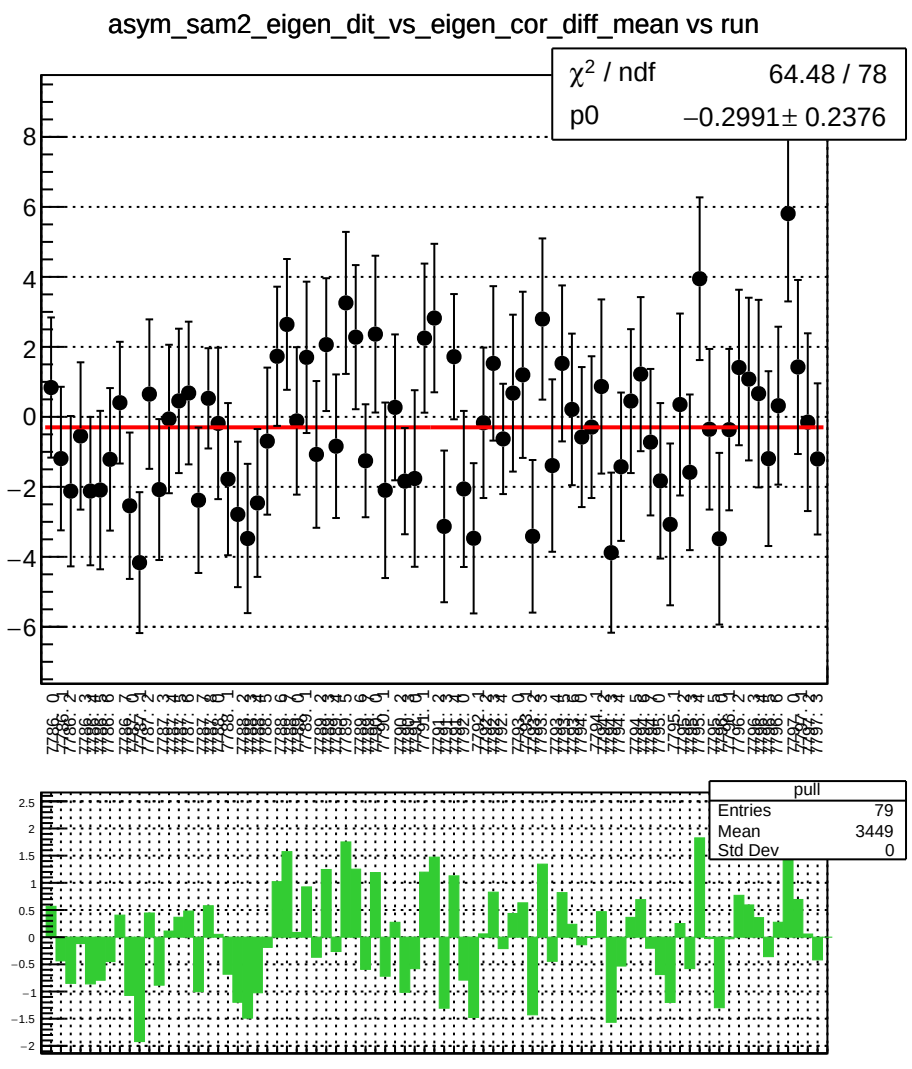

pull1D
Entries 79
Mean −0.002029
Std Dev 0.9166

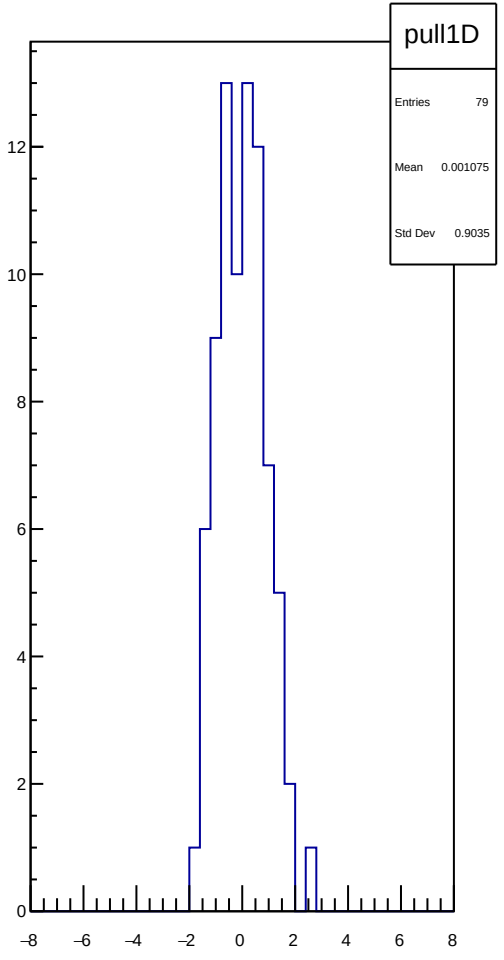

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2100 / 78
p0 0.009323 ± 7.533e−06
0.0105
0.01
0.0095
0.009
0.0085

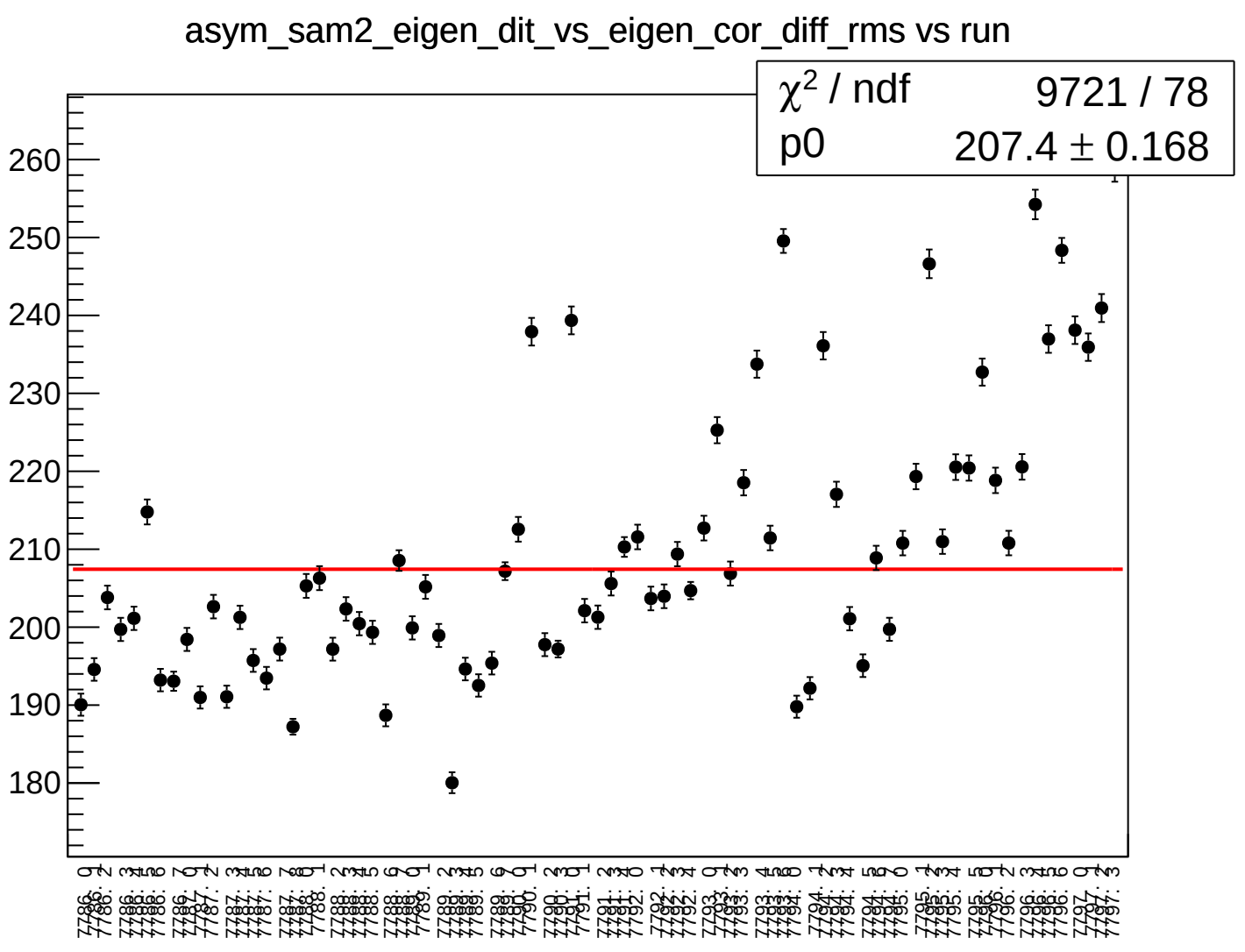

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.48 / 78
p0 −0.2991± 0.2376
pull
Entries 79
Mean 3449
Std Dev 0

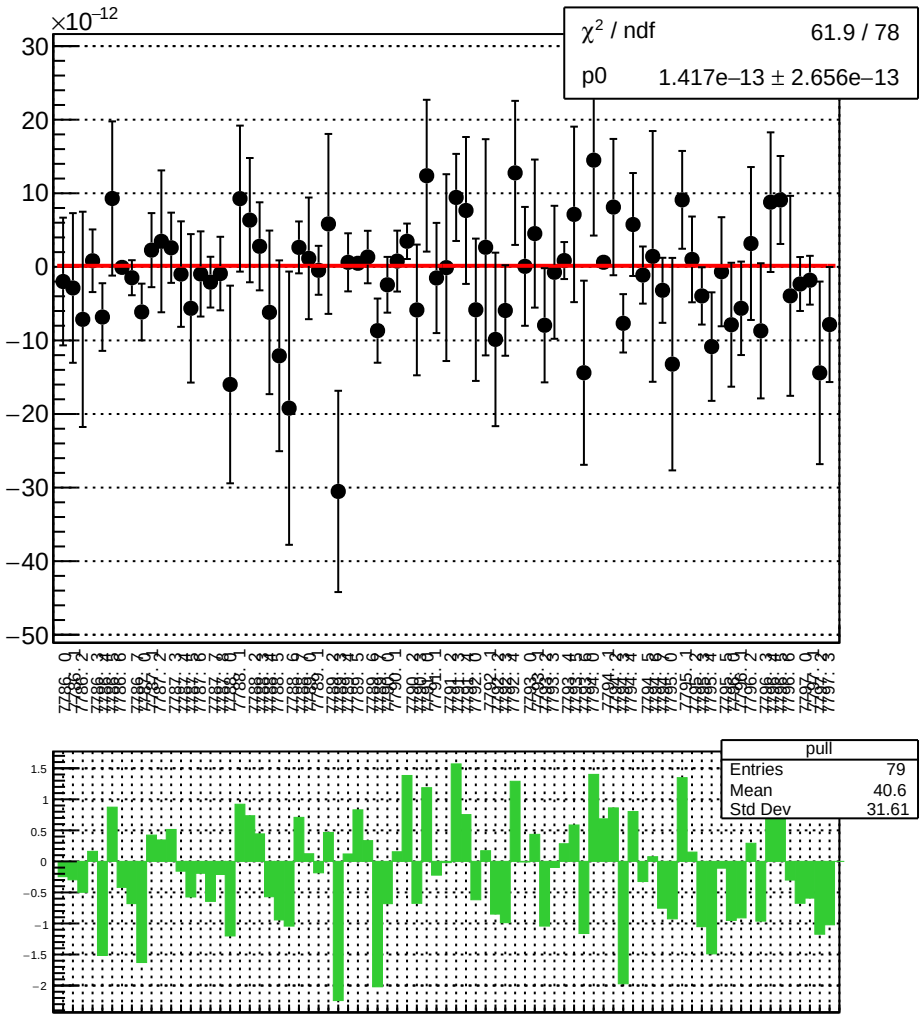

pull1D
Entries 79
Mean 0.001075
Std Dev 0.9035

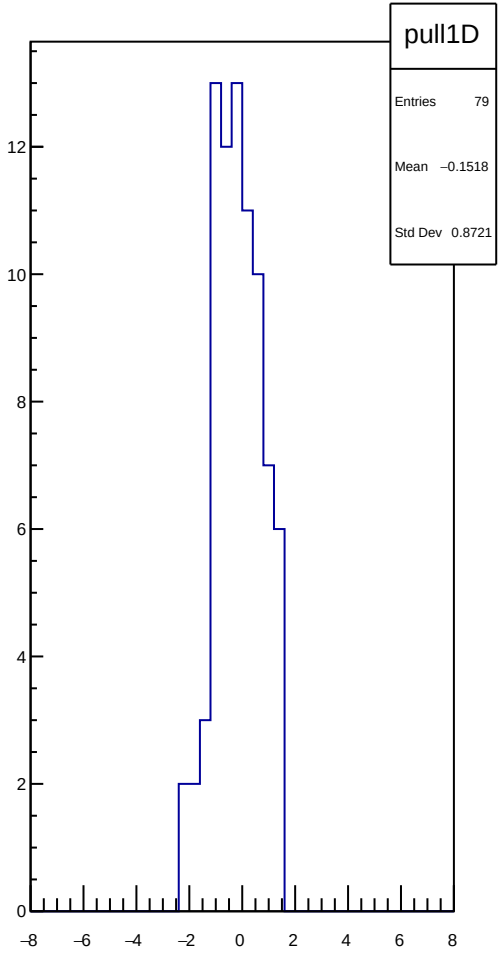

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9721 / 78
p0 207.4 ± 0.168
260
250
240
230
220
210
200
190
180

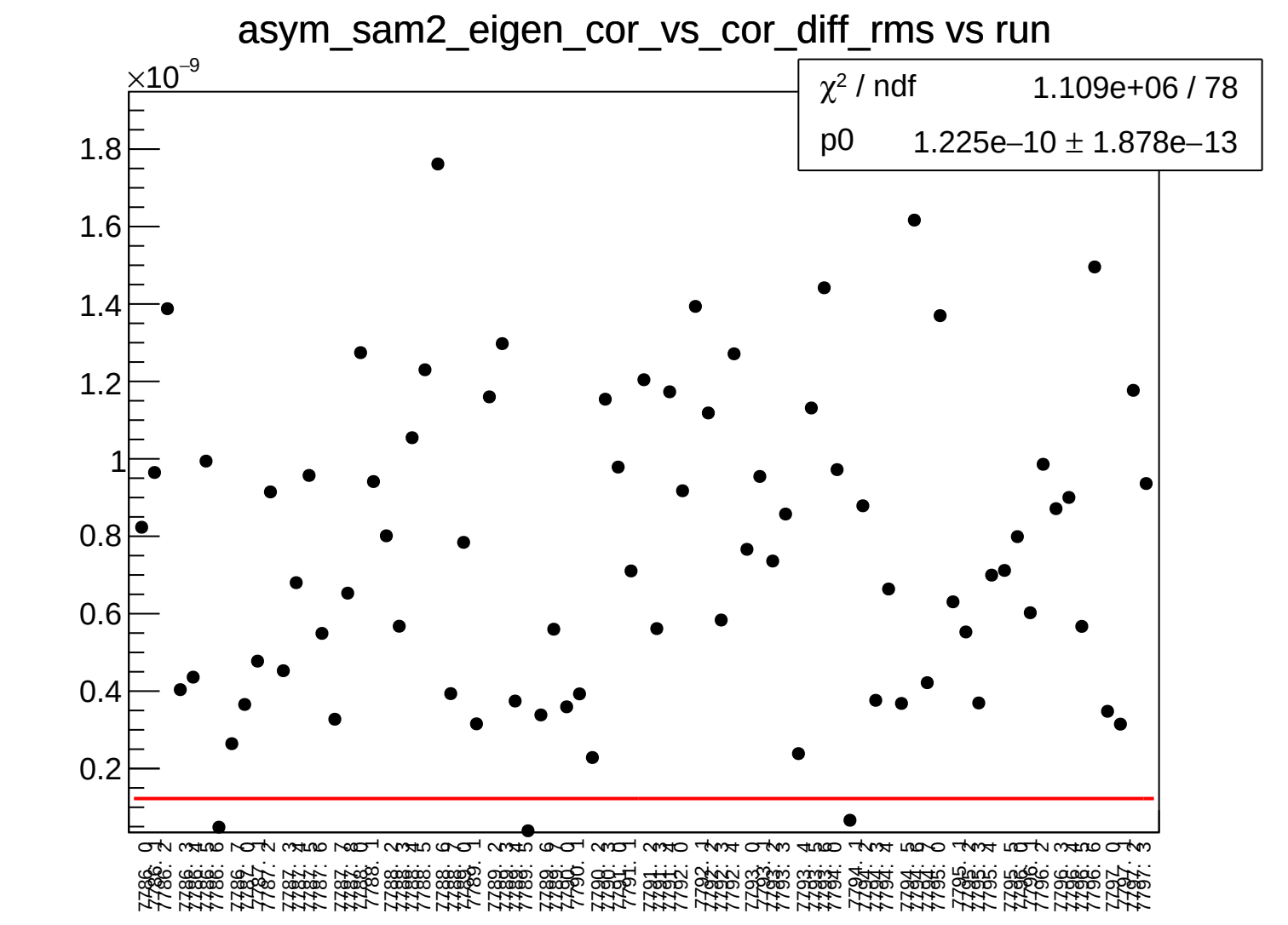

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.48 / 78
p0 −0.2991± 0.2376
pull
Entries 79
Mean 3449
Std Dev 0

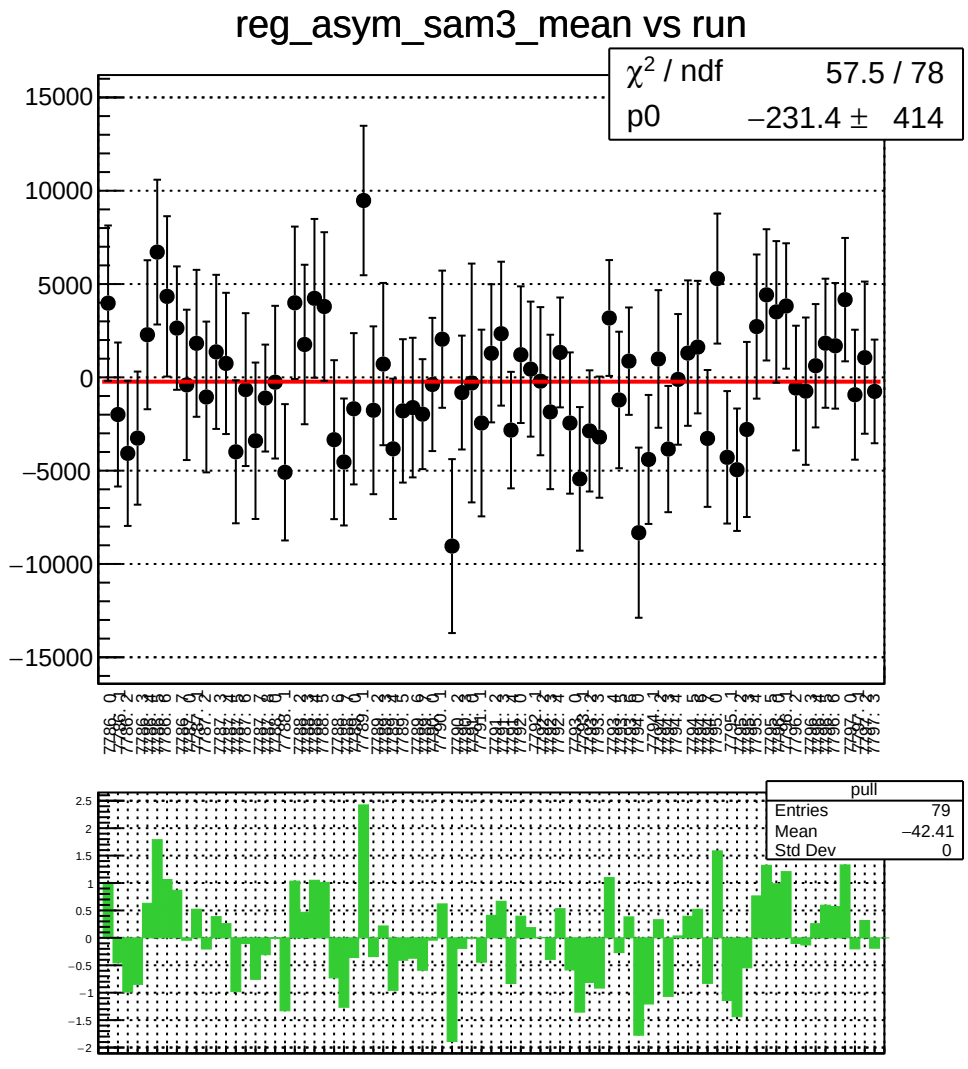

pull1D
Entries 79
Mean 0.001075
Std Dev 0.9035

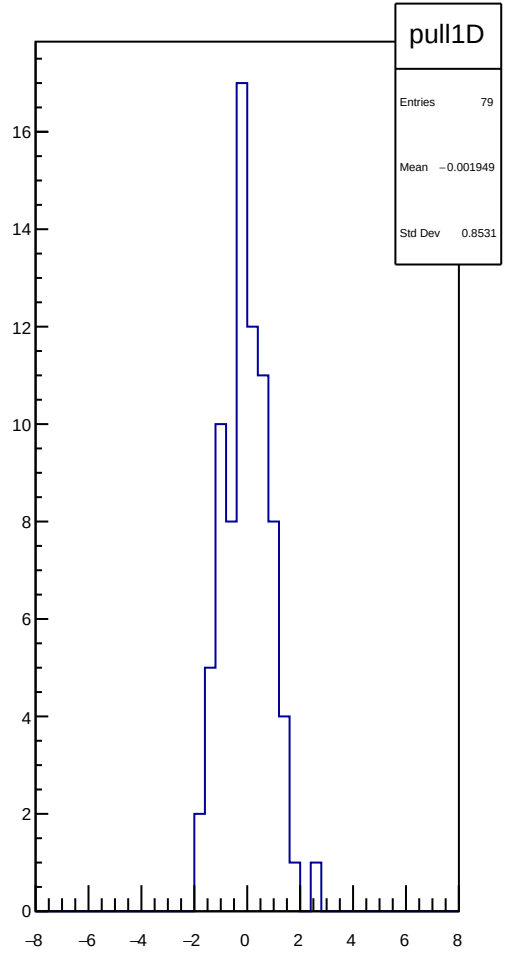

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9721 / 78
p0 207.4 ± 0.168
260
250
240
230
220
210
200
190
180

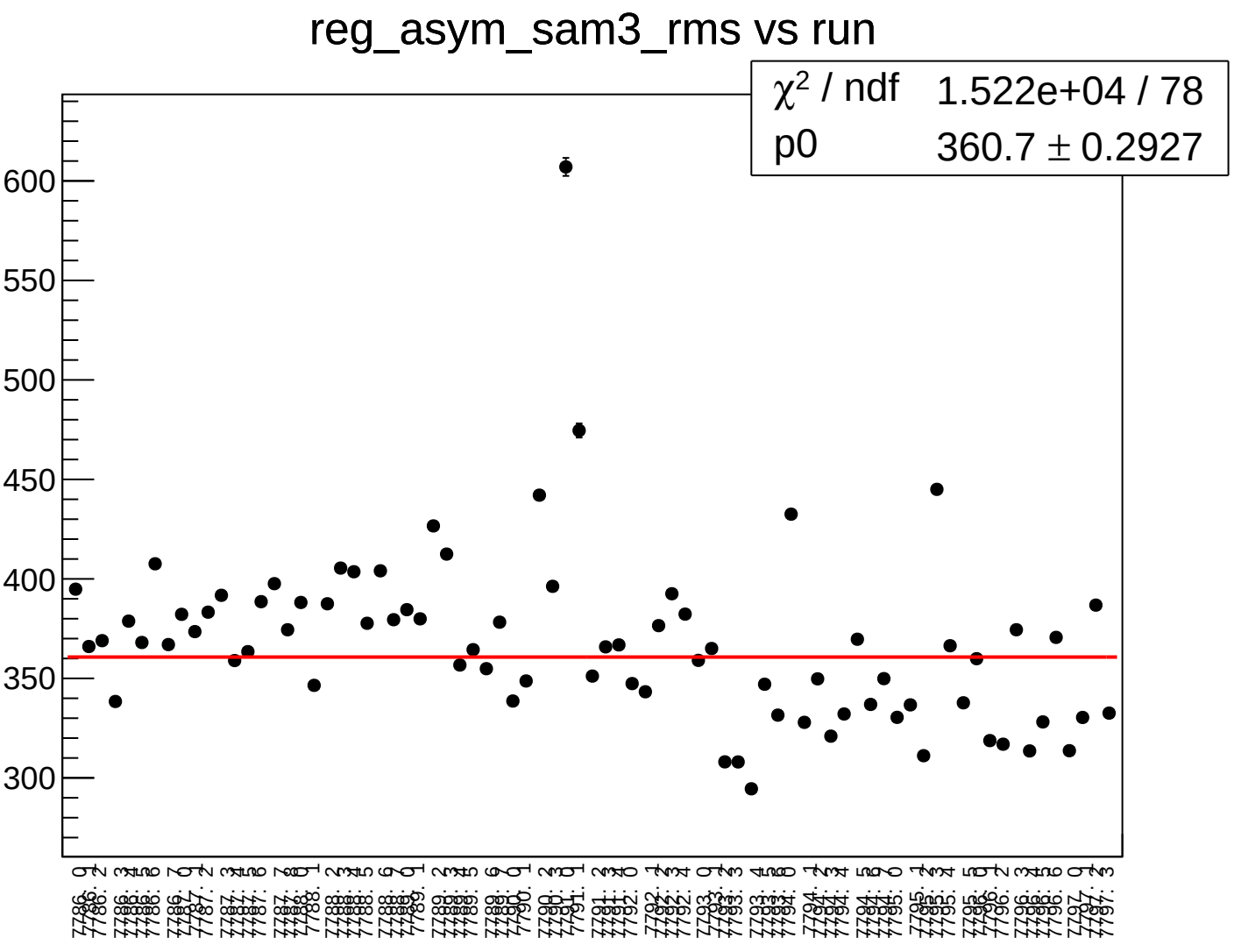

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.9 / 78
p0 1.417e−13 ± 2.656e−13
pull
Entries 79
Mean 40.6
Std Dev 31.61

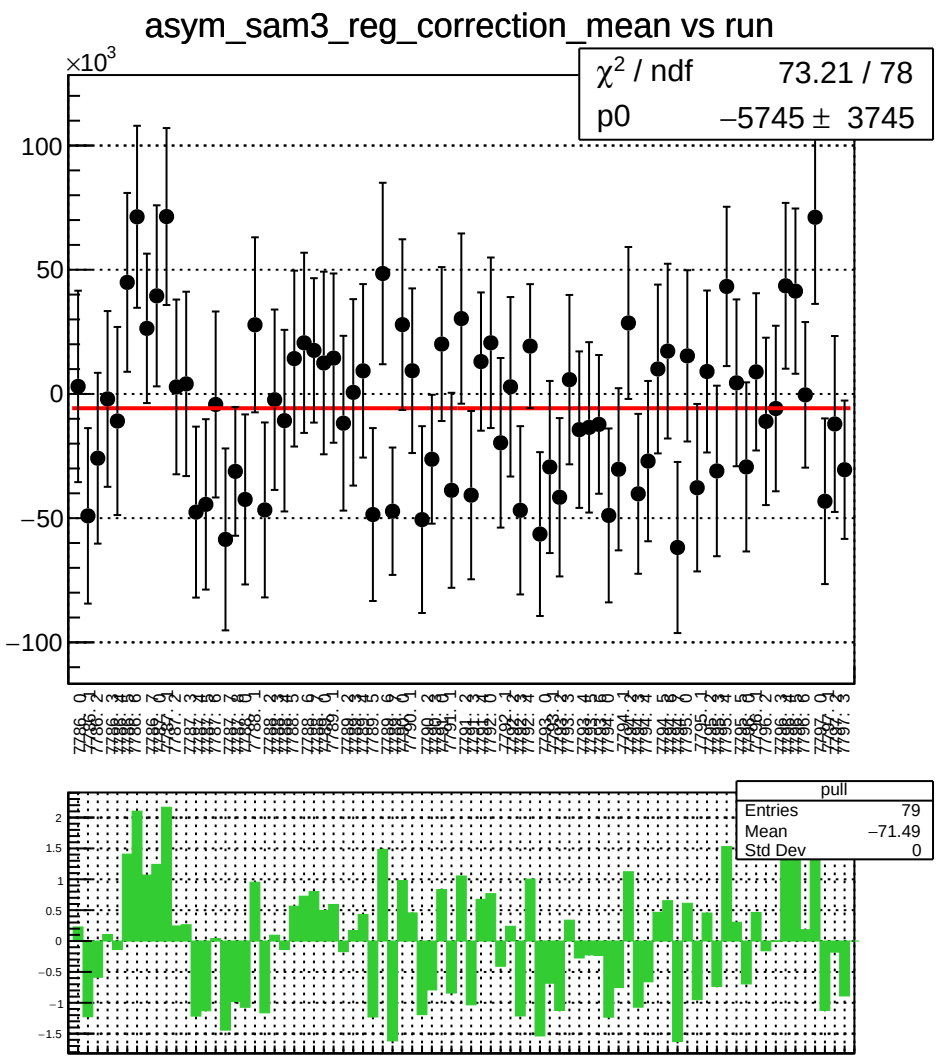

pull1D
Entries 79
Mean −0.1518
Std Dev 0.8721

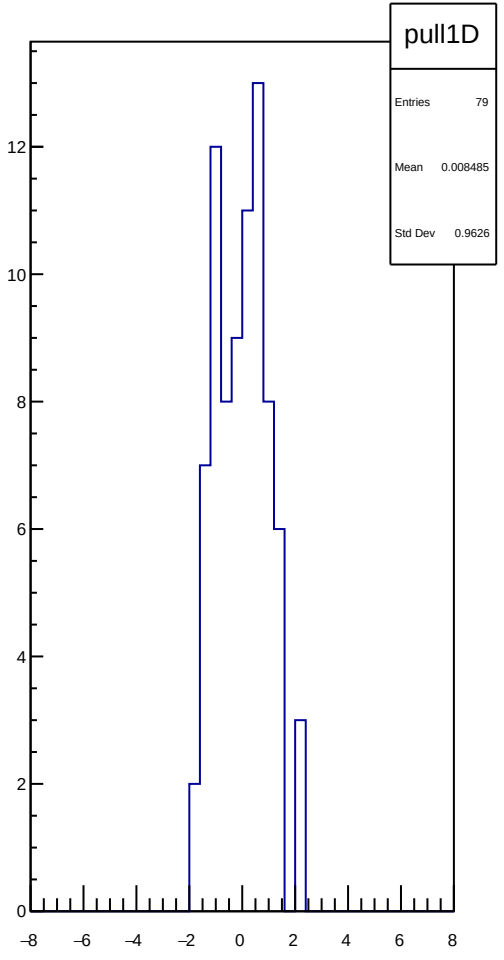

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.109e+06 / 78
p0 1.225e−10 ± 1.878e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

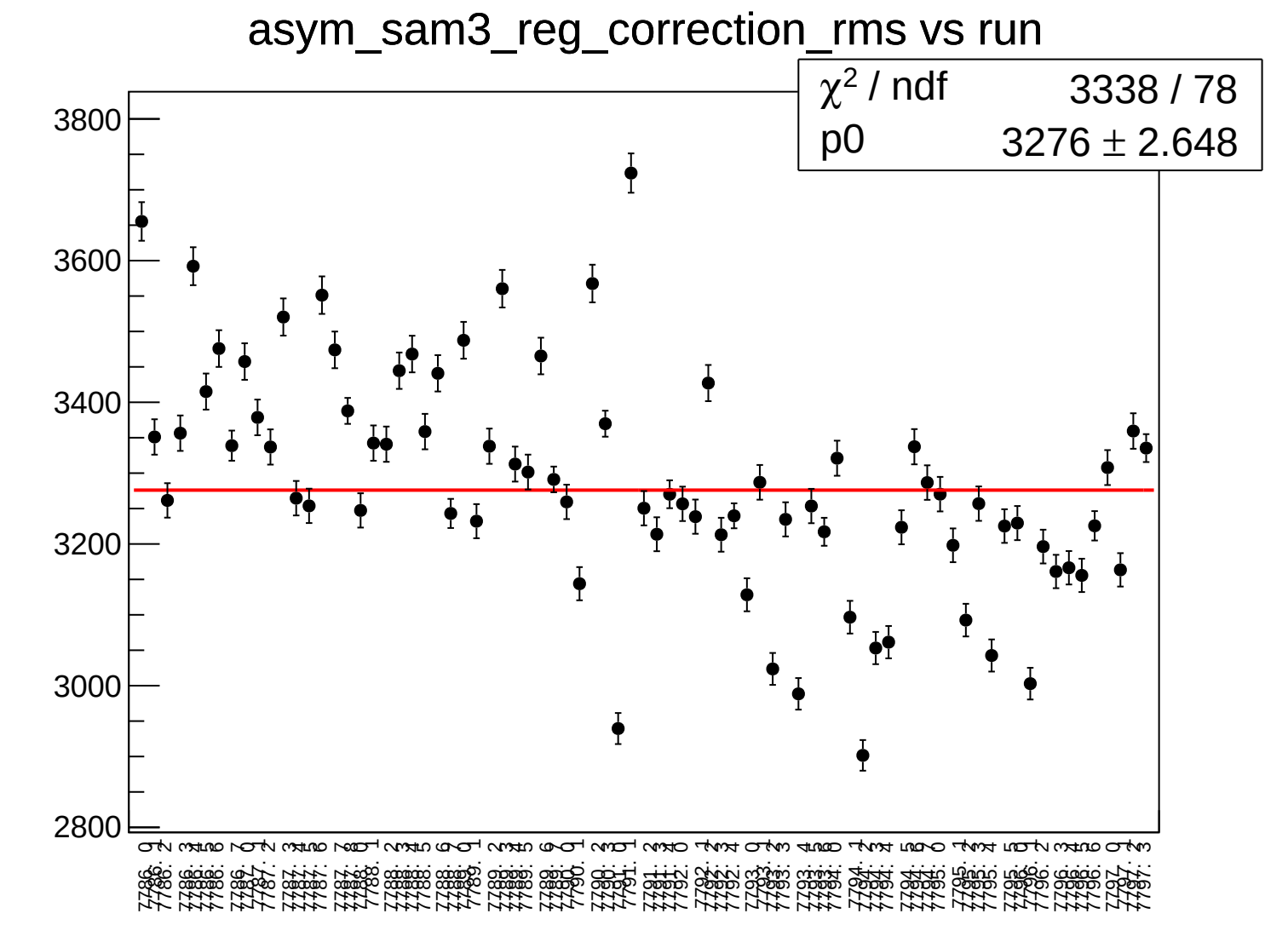

reg_asym_sam3_mean vs run
χ² / ndf 57.5 / 78
p0 −231.4 ± 414
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean −42.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

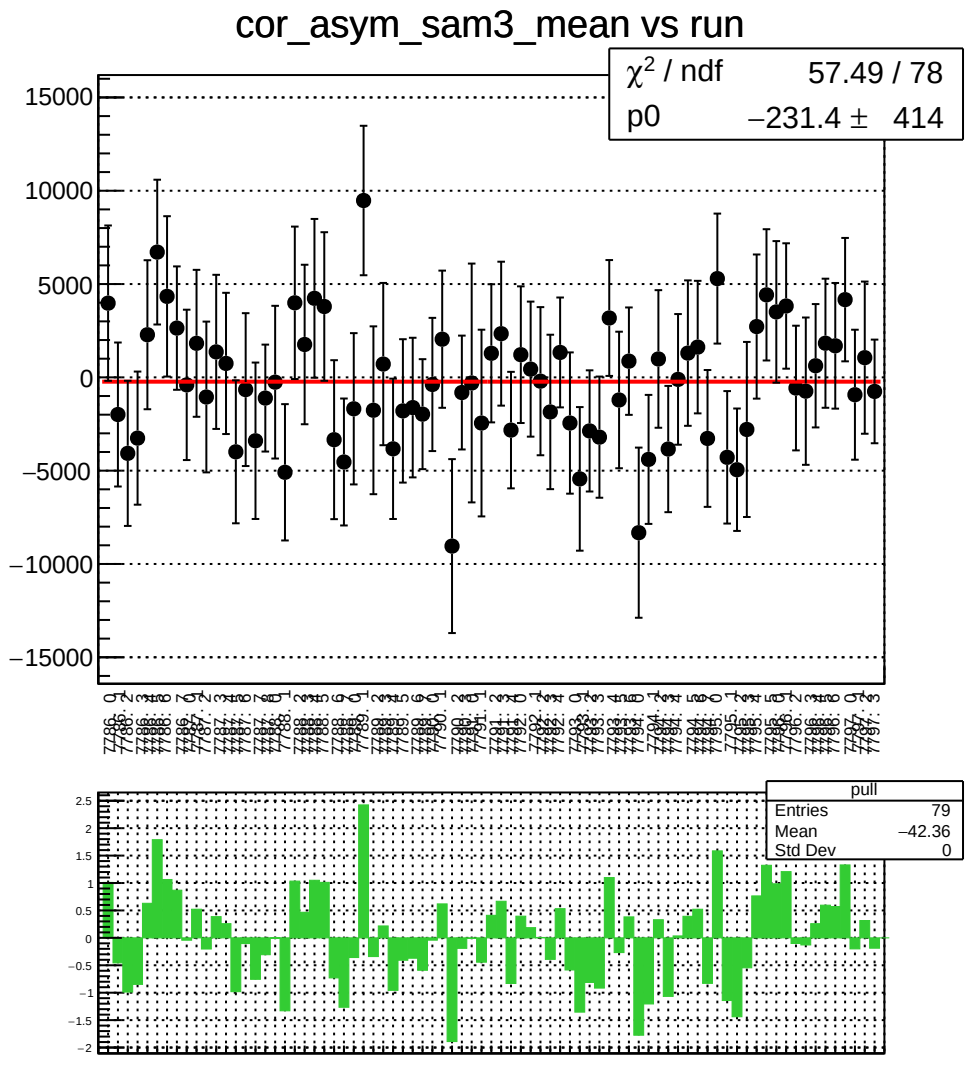

pull1D
Entries 79
Mean −0.001949
Std Dev 0.8531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

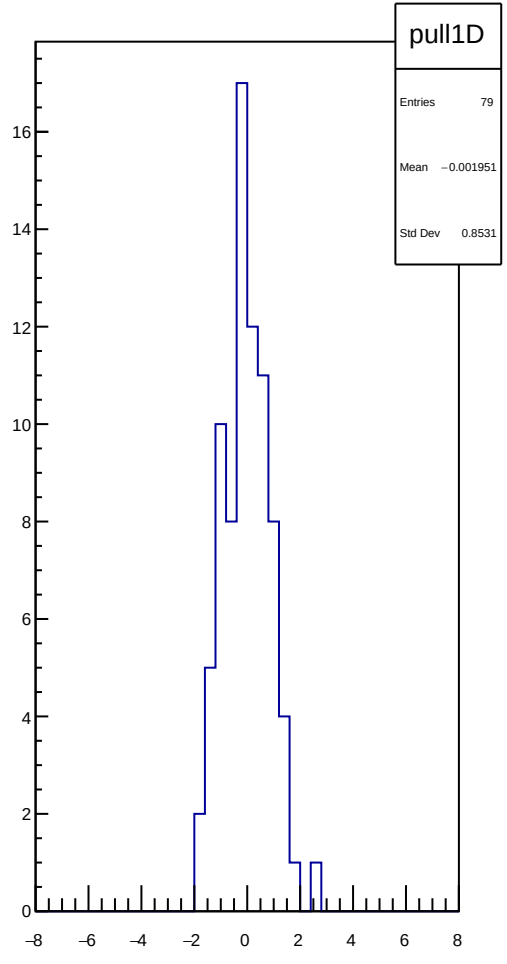

reg_asym_sam3_rms vs run
χ² / ndf 1.522e+04 / 78
p0 360.7 ± 0.2927
600
550
500
450
400
350
300

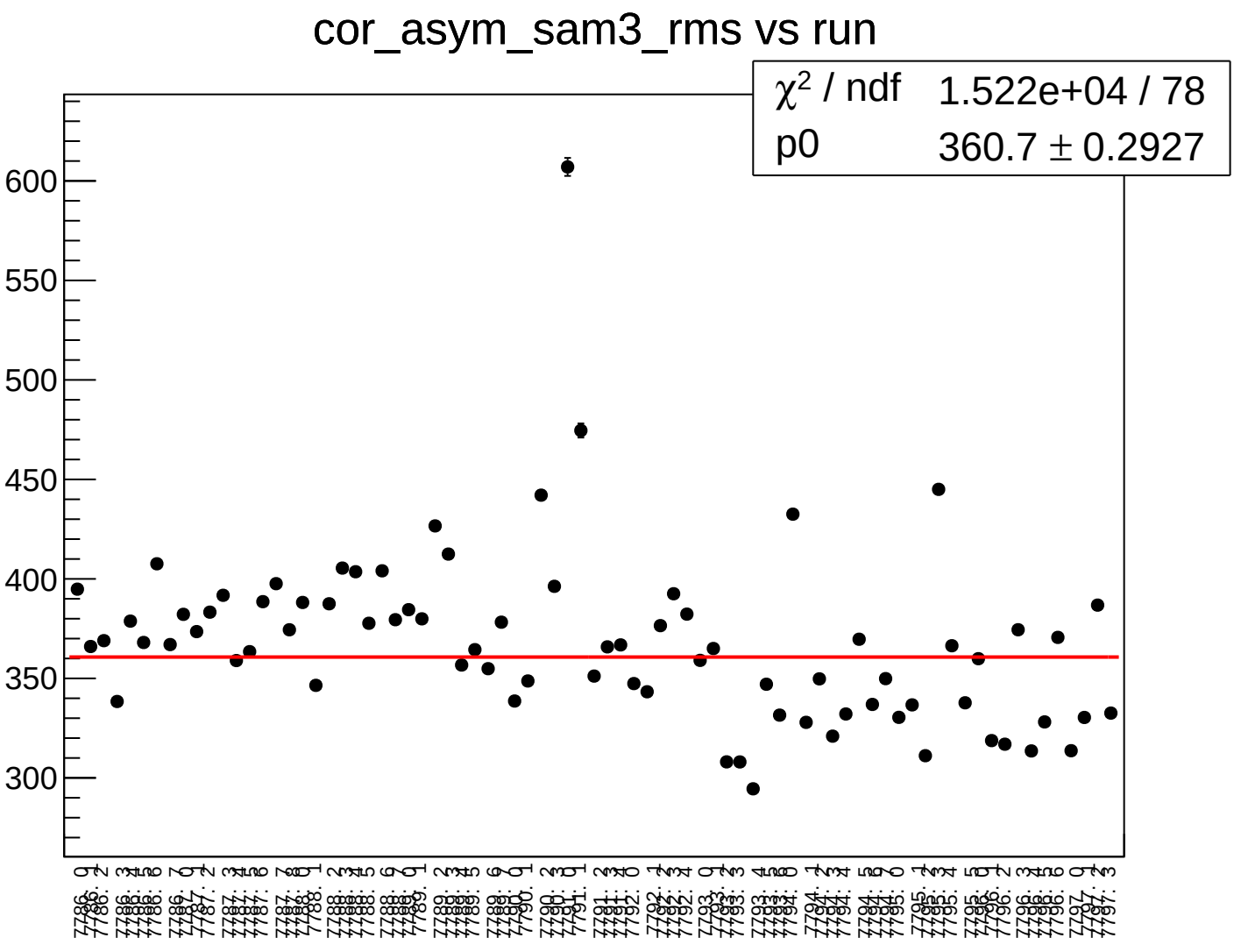

asym_sam3_reg_correction_mean vs run
χ² / ndf 73.21 / 78
p0 −5745 ± 3745
×10³
pull
Entries 79
Mean −71.49
Std Dev 0

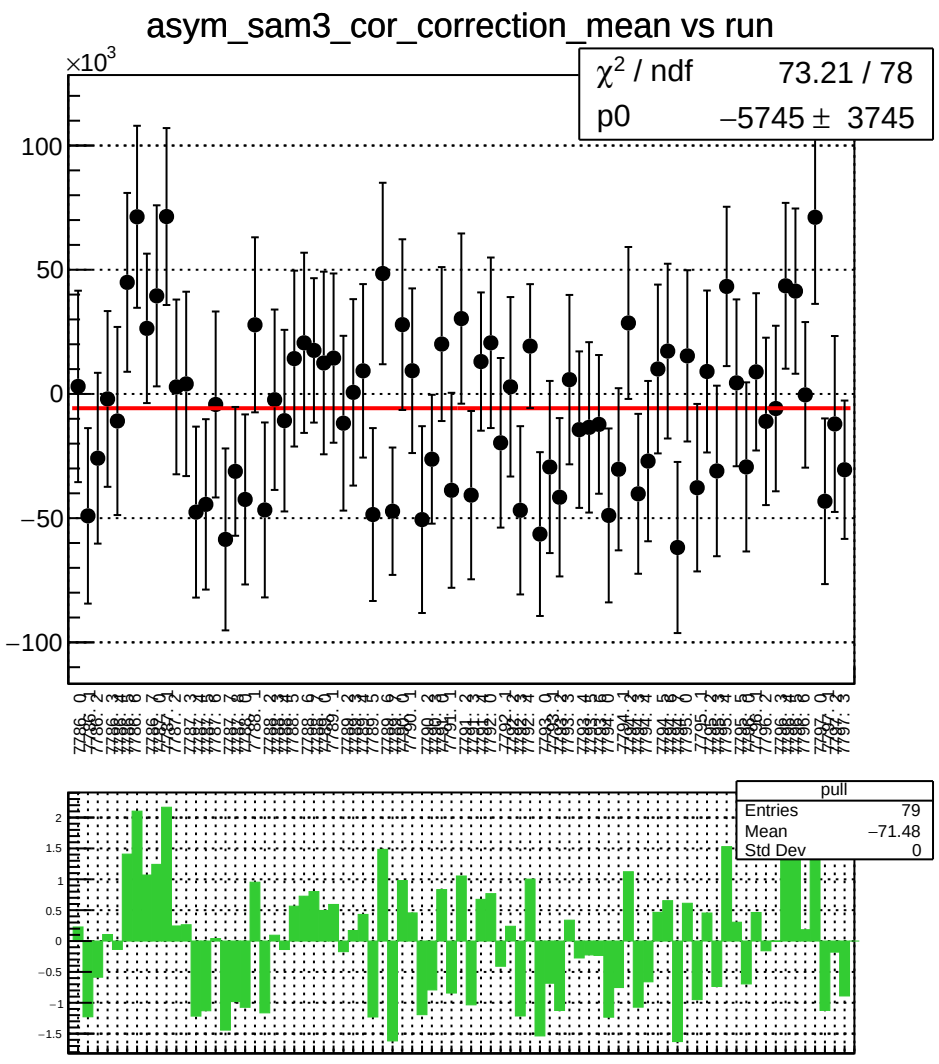

pull1D
Entries 79
Mean 0.008485
Std Dev 0.9626

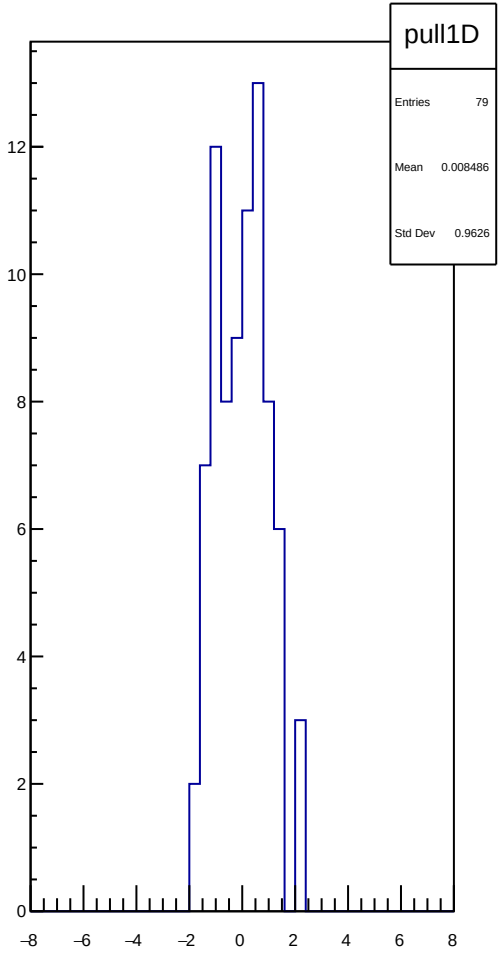

asym_sam3_reg_correction_rms vs run
χ² / ndf 3338 / 78
p0 3276 ± 2.648
3800
3600
3400
3200
3000
2800

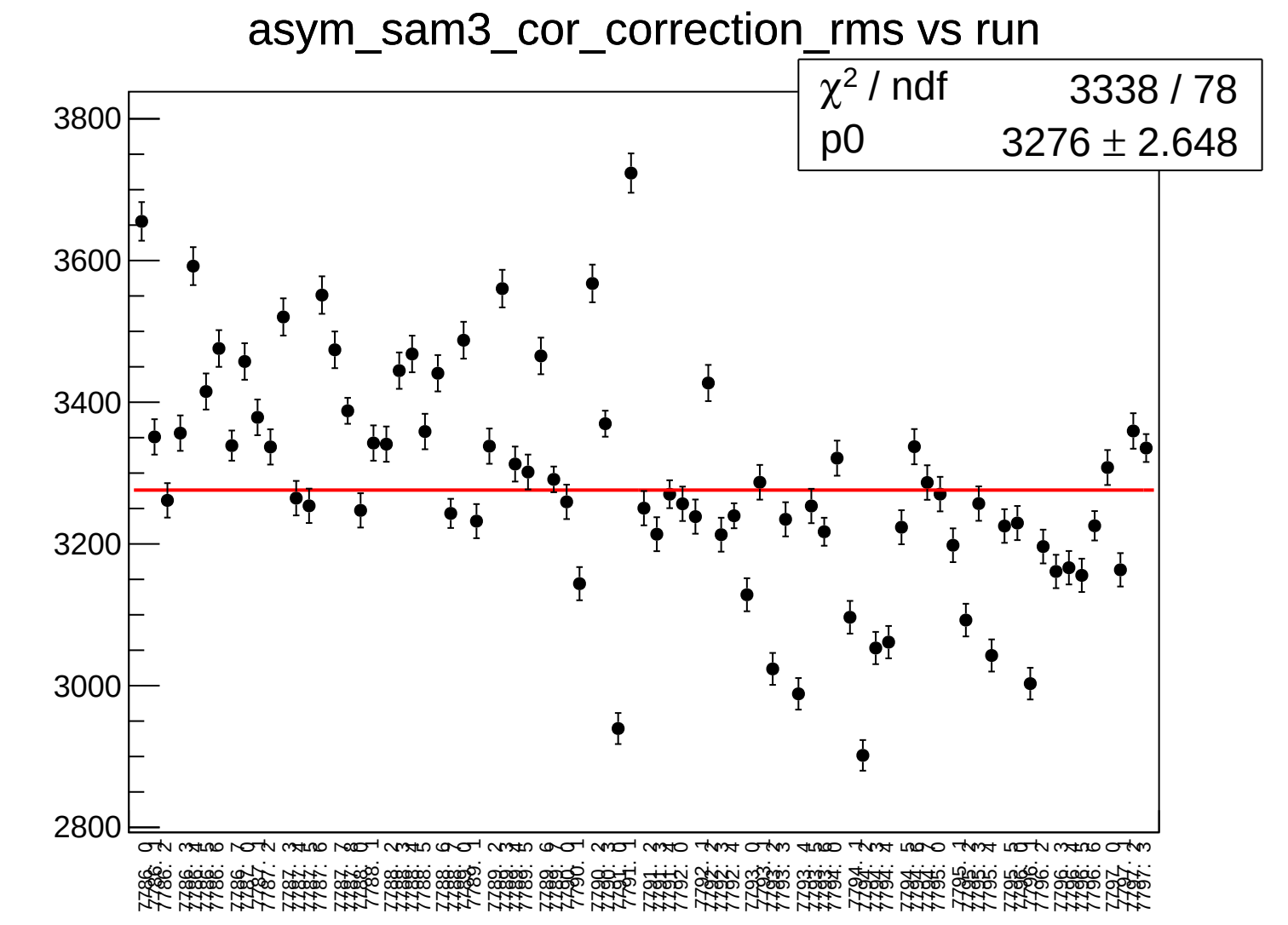

cor_asym_sam3_mean vs run
χ² / ndf 57.49 / 78
p0 −231.4 ± 414
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean −42.36
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

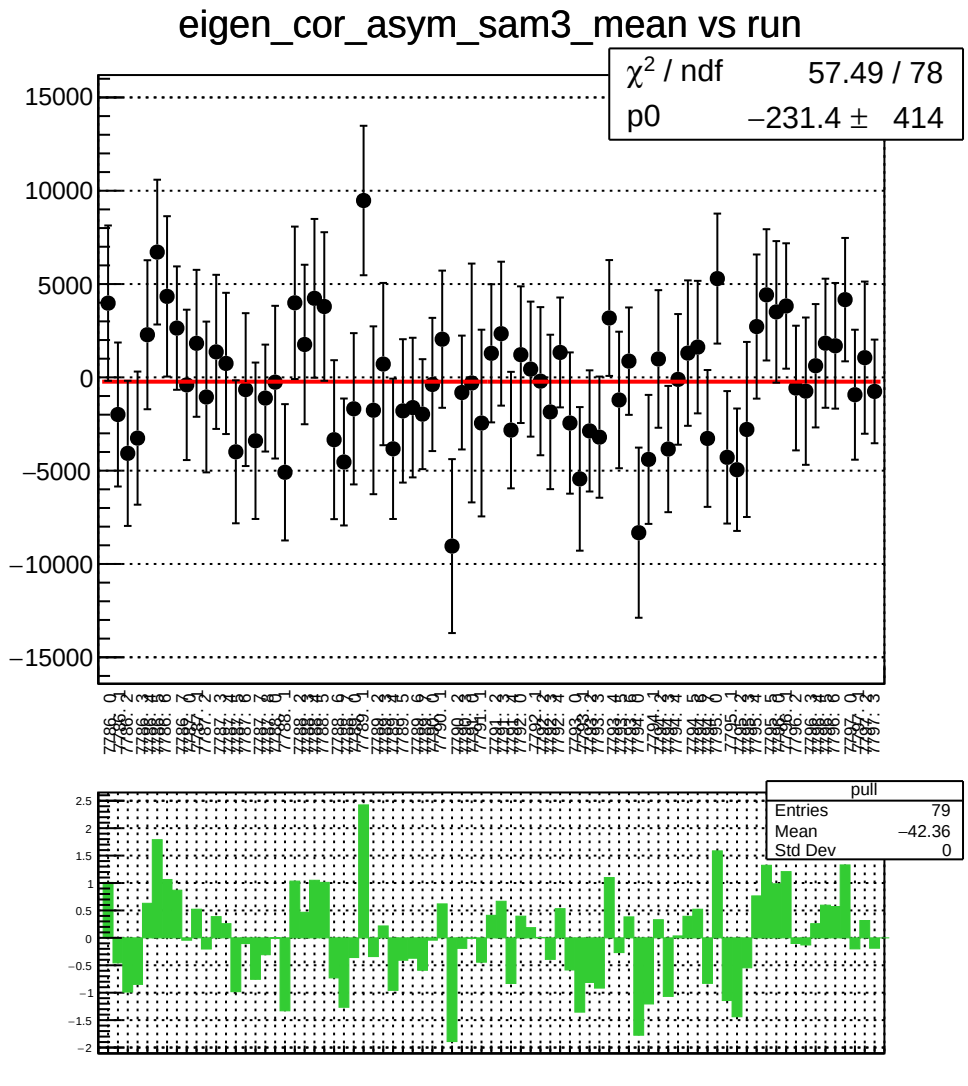

pull1D
Entries 79
Mean −0.001951
Std Dev 0.8531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

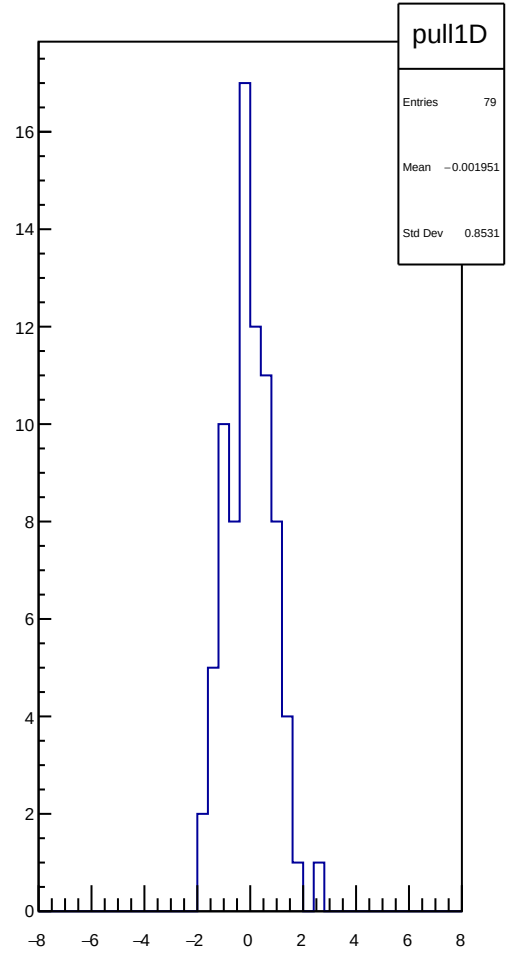

cor_asym_sam3_rms vs run
χ^2 / ndf 1.522e+04 / 78
p0 360.7 ± 0.2927
600
550
500
450
400
350
300

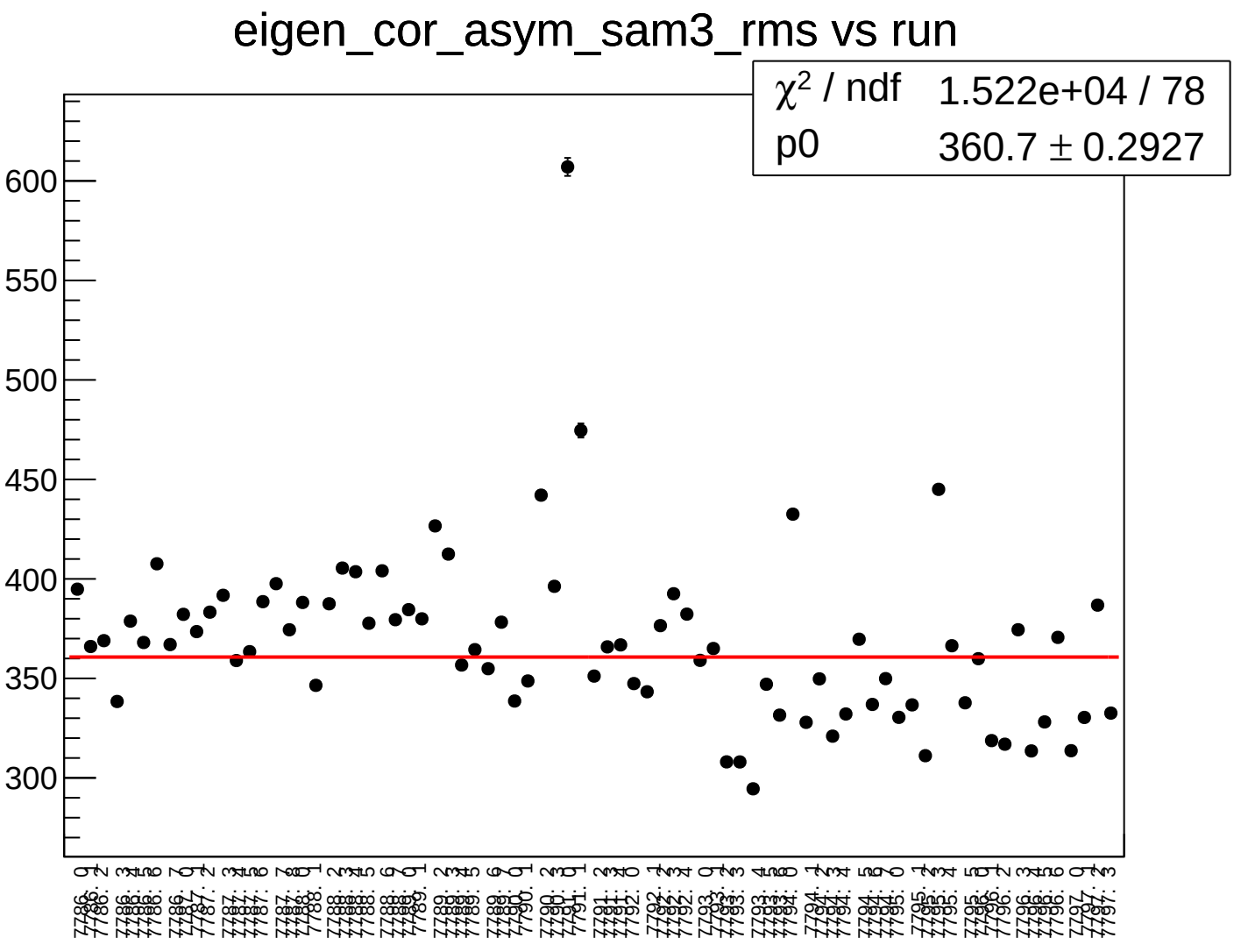

asym_sam3_cor_correction_mean vs run
χ² / ndf 73.21 / 78
p0 −5745 ± 3745
×10³
pull
Entries 79
Mean −71.48
Std Dev 0

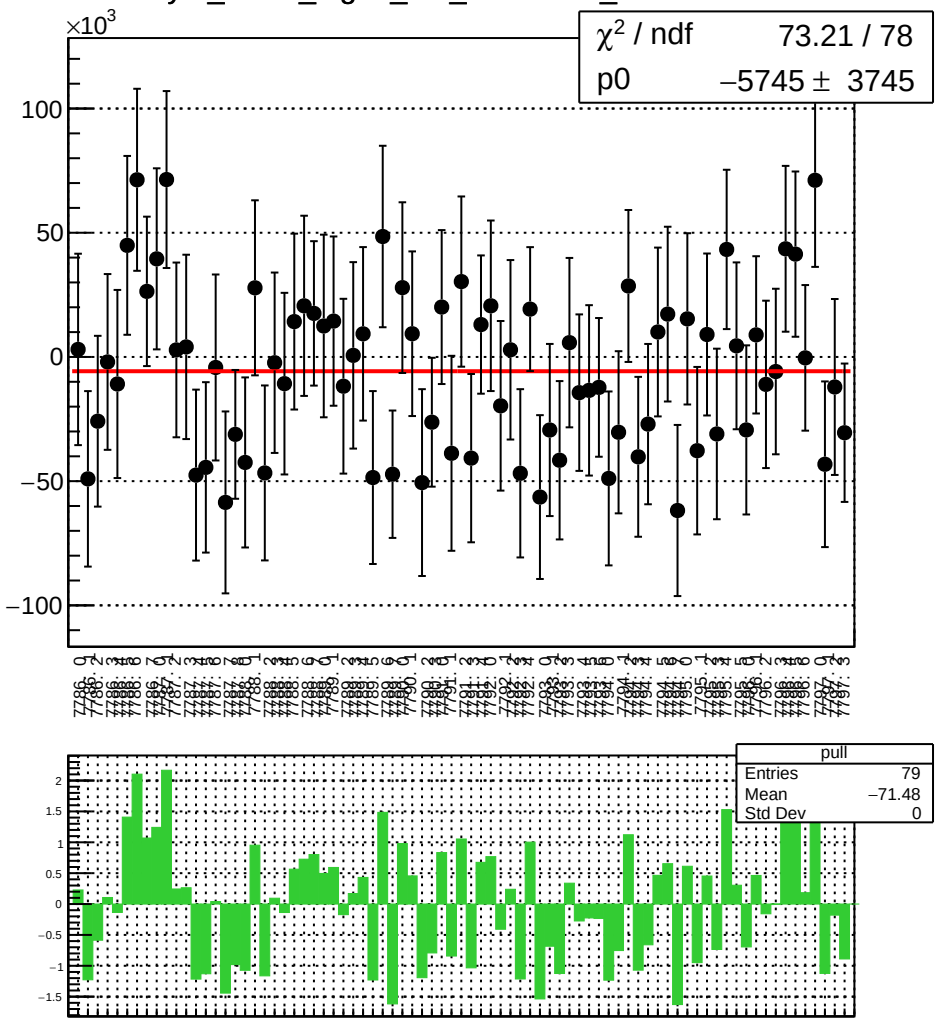

pull1D
Entries 79
Mean 0.008486
Std Dev 0.9626

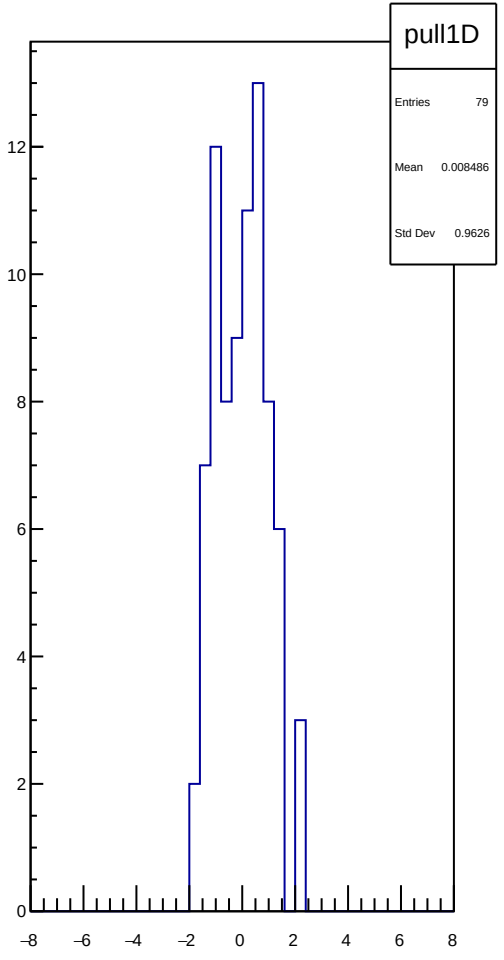

asym_sam3_cor_correction_rms vs run
χ² / ndf 3338 / 78
p0 3276 ± 2.648
3800
3600
3400
3200
3000
2800

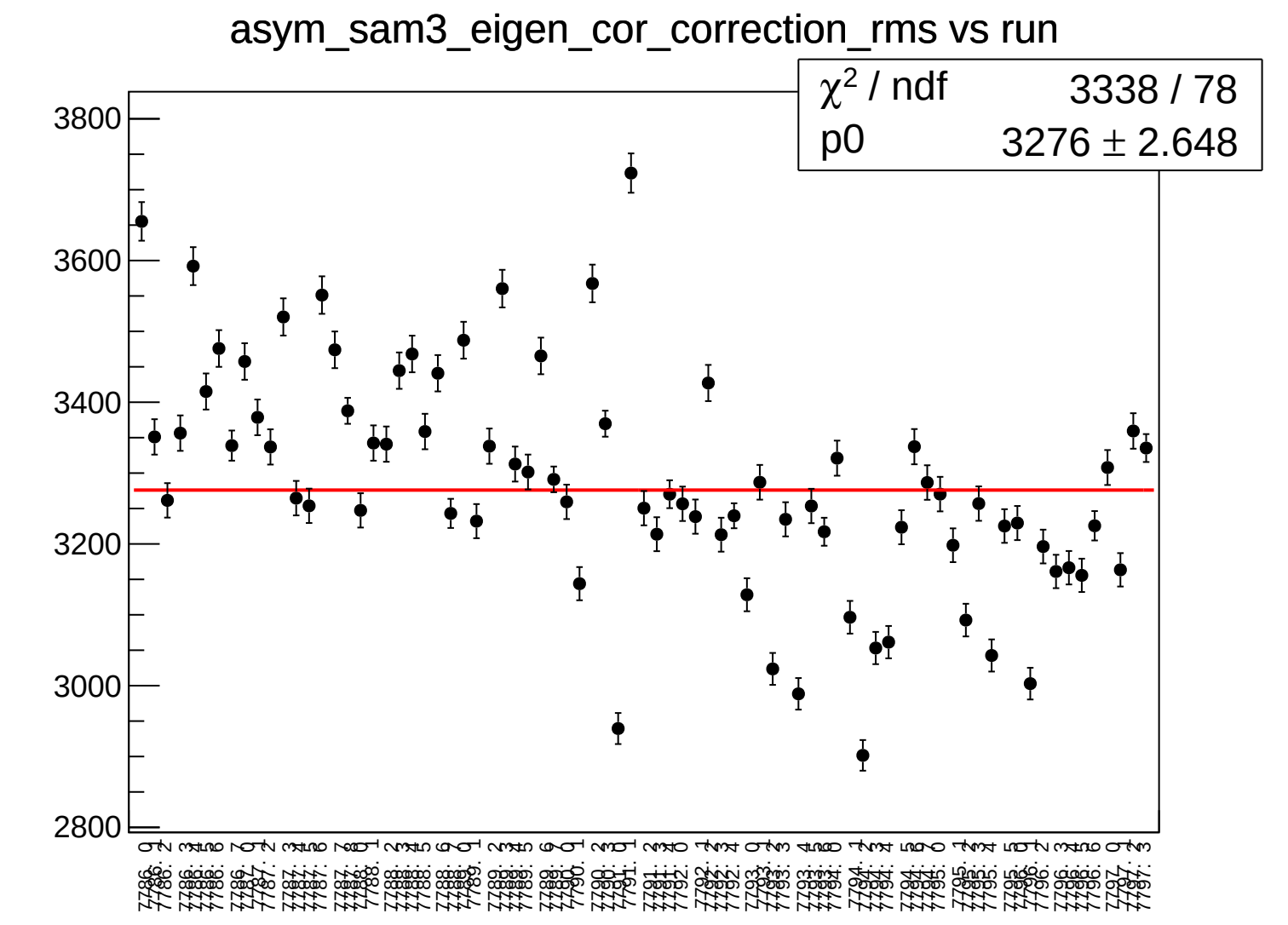

eigen_cor_asym_sam3_mean vs run
χ² / ndf 57.49 / 78
p0 −231.4 ± 414
pull
Entries 79
Mean −42.36
Std Dev 0

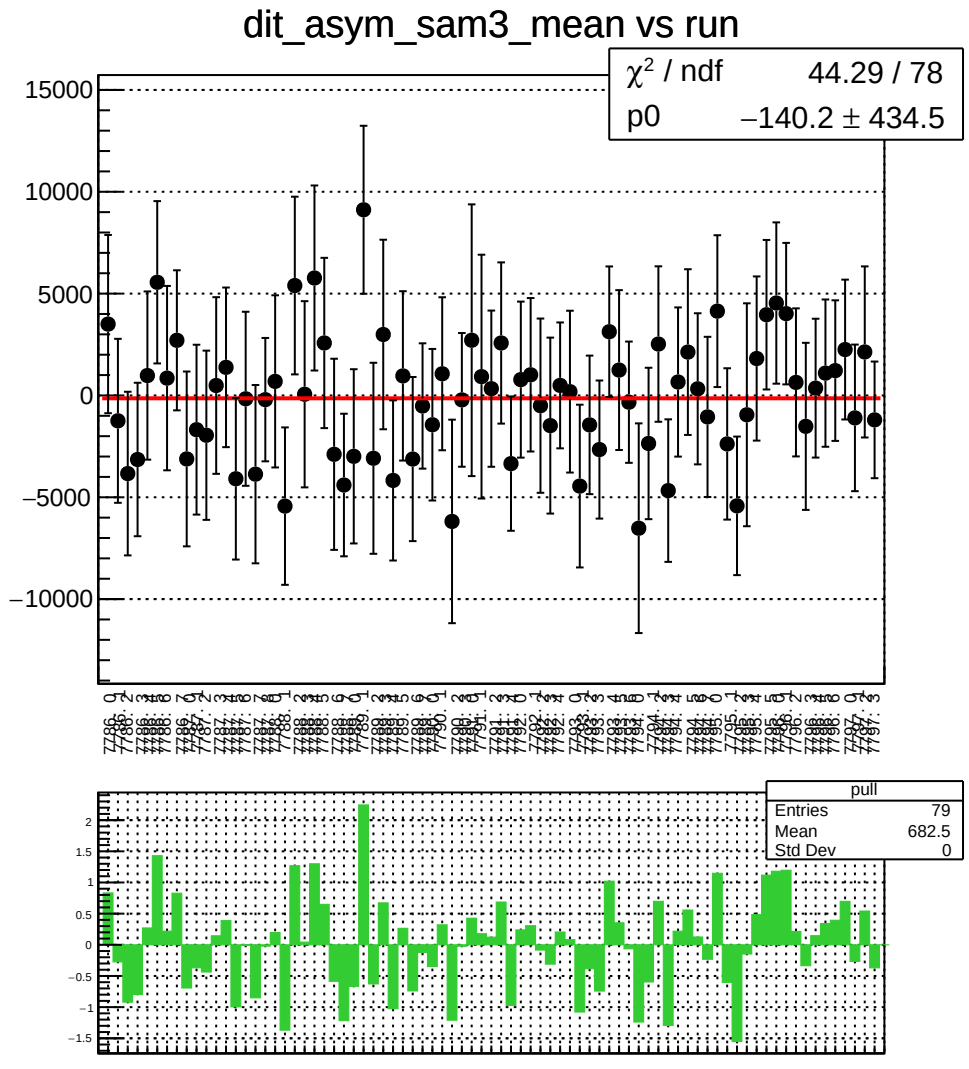

pull1D
Entries 79
Mean −0.001951
Std Dev 0.8531

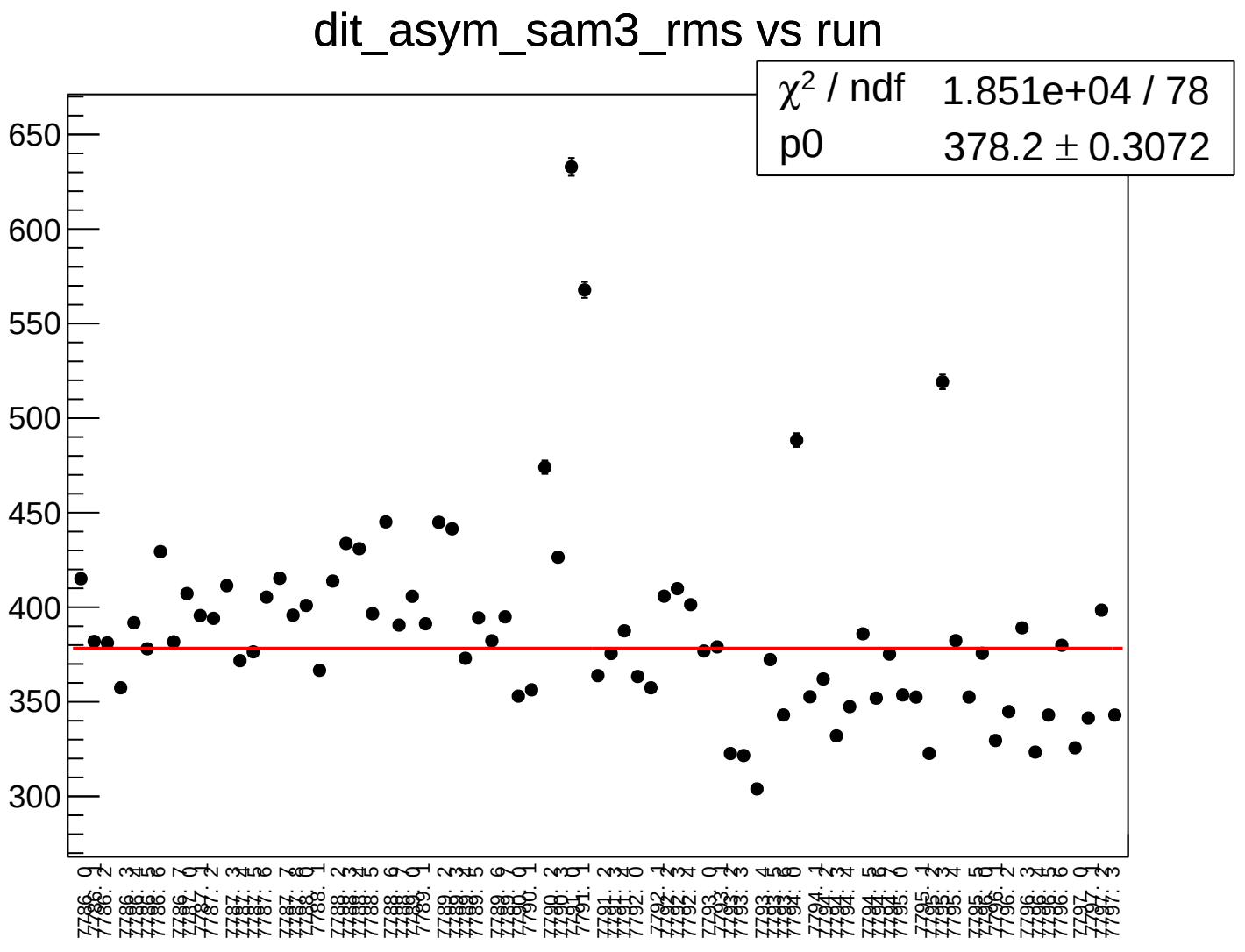

eigen_cor_asym_sam3_rms vs run
χ^2 / ndf 1.522e+04 / 78
p0 360.7 ± 0.2927
600
550
500
450
400
350
300

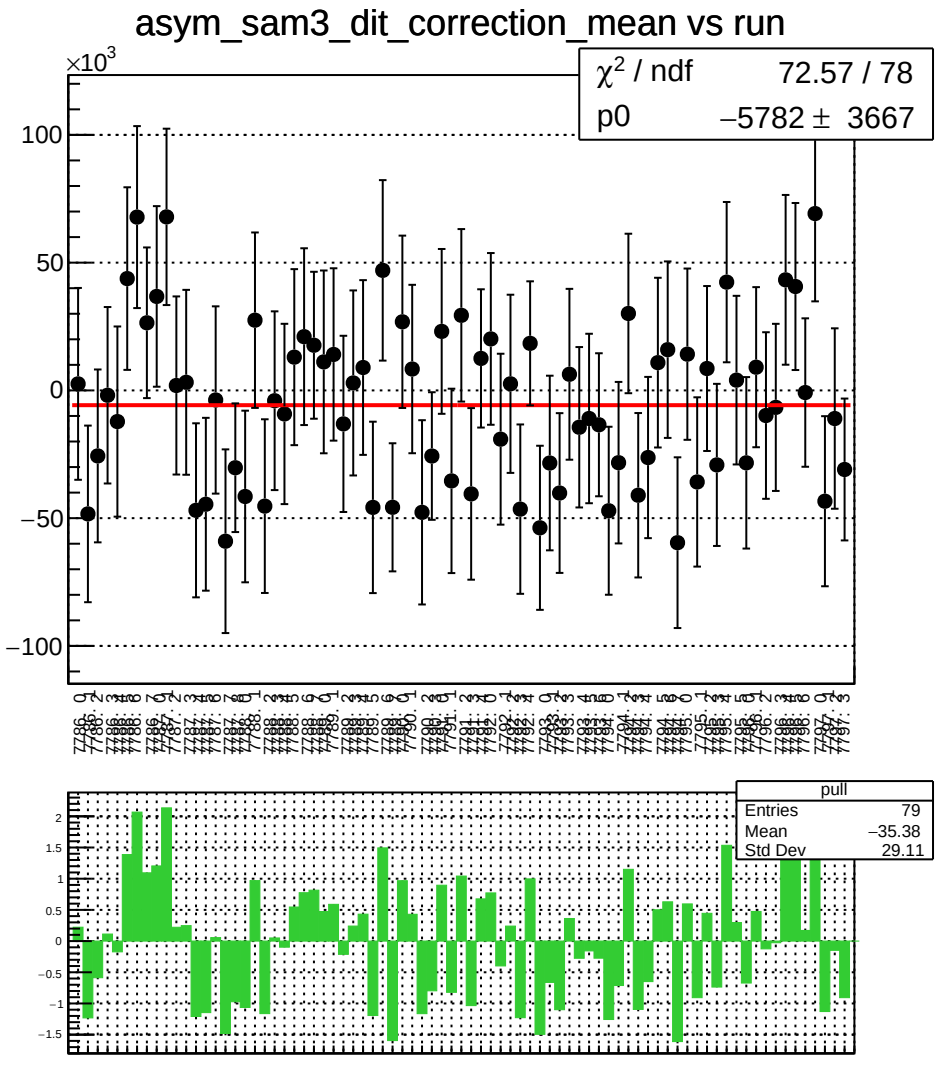

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 73.21 / 78
p0 −5745 ± 3745
pull
Entries 79
Mean −71.48
Std Dev 0

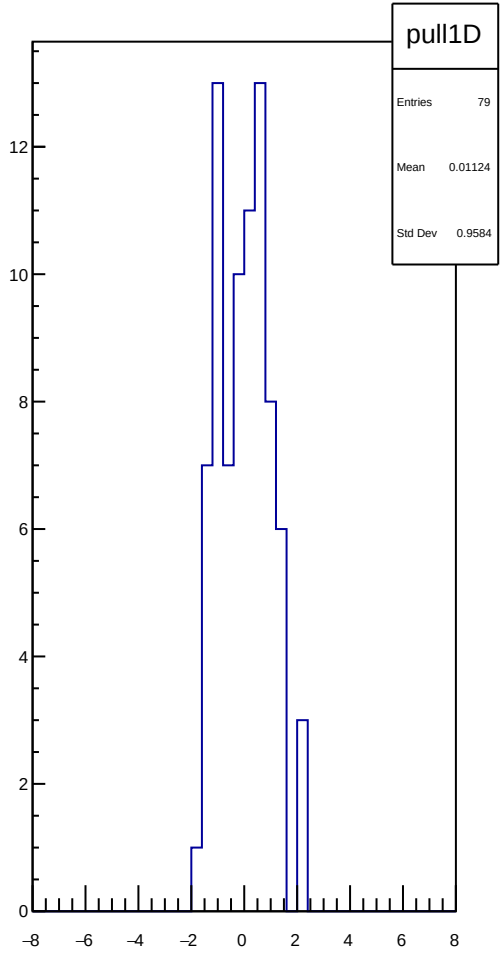

pull1D
Entries 79
Mean 0.008486
Std Dev 0.9626

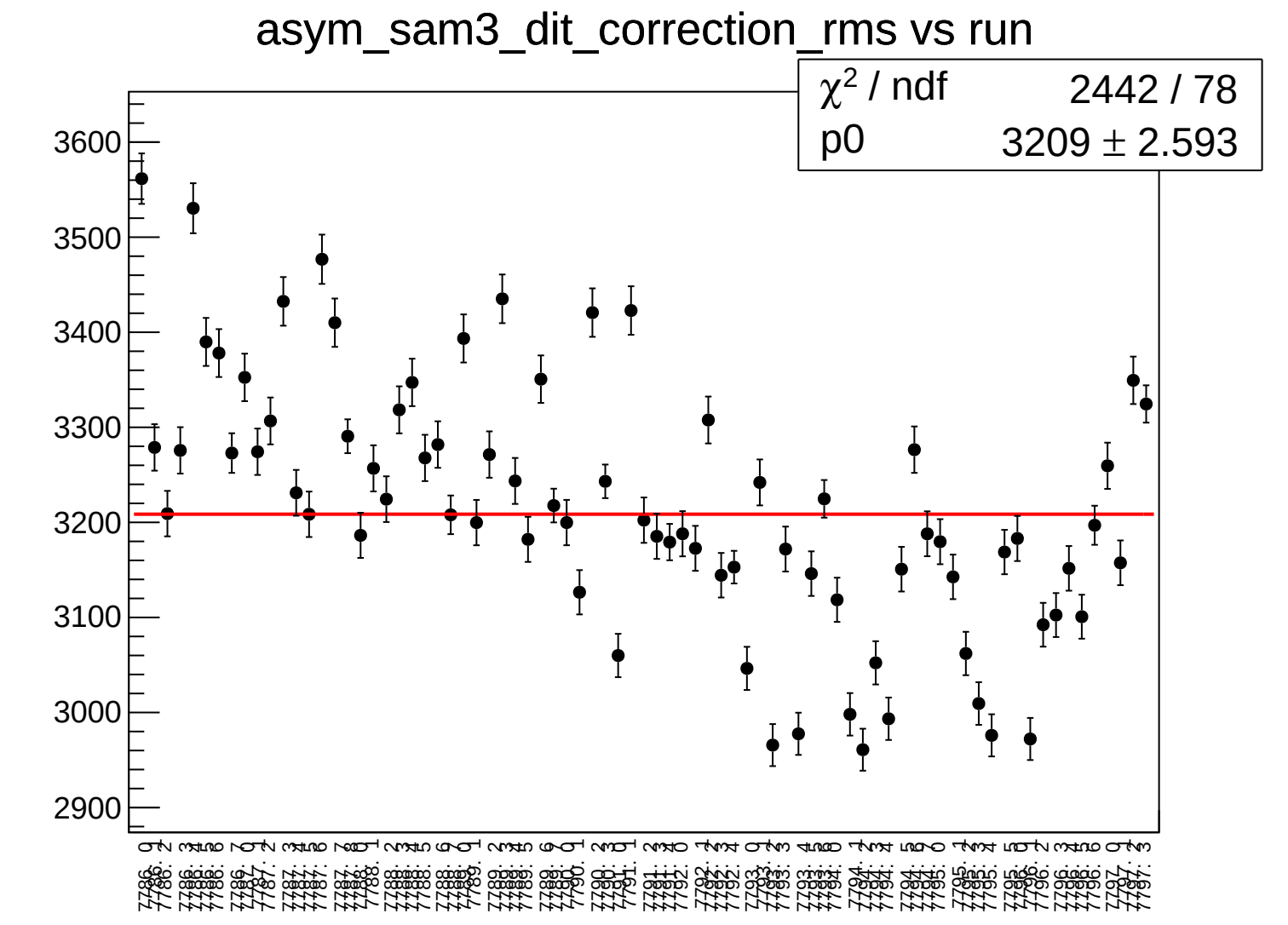

asym_sam3_eigen_cor_correction_rms vs run
χ^2 / ndf 3338 / 78
p0 3276 ± 2.648
3800
3600
3400
3200
3000
2800

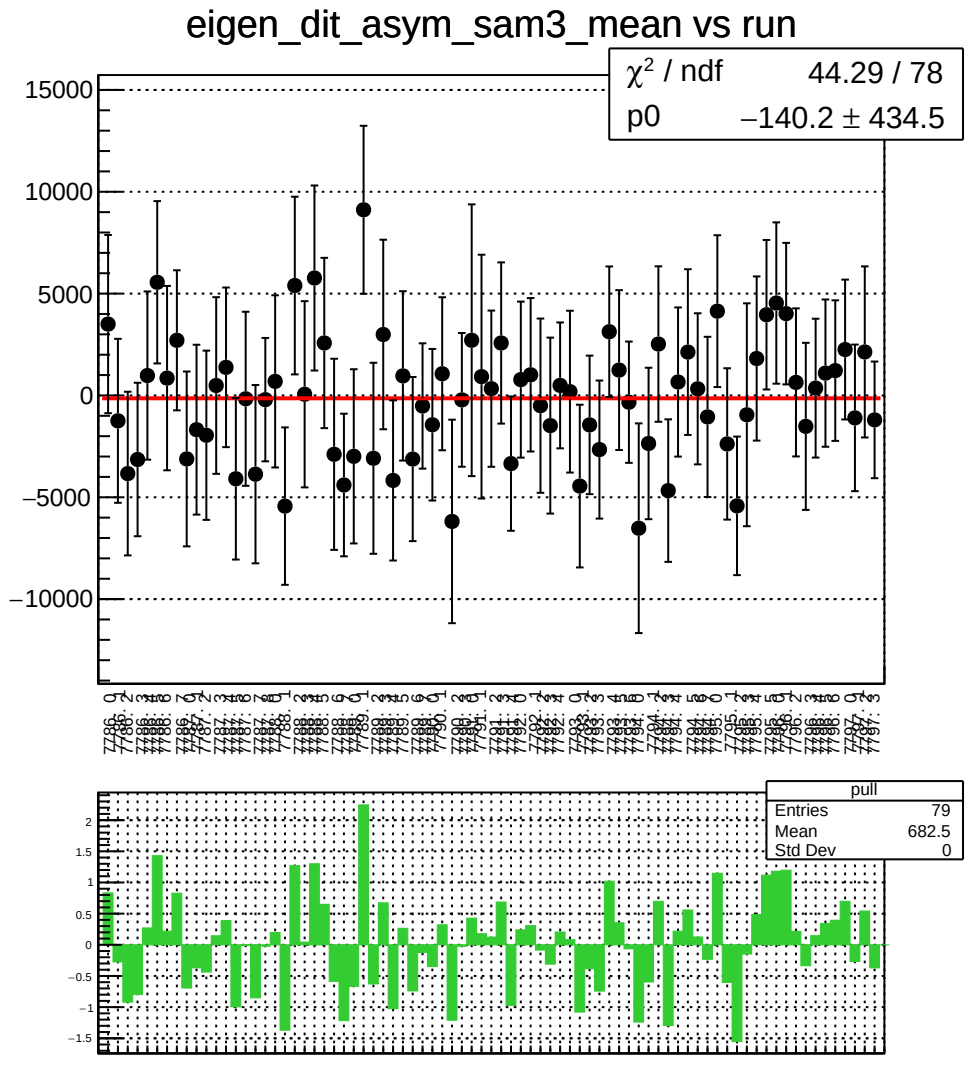

dit_asym_sam3_mean vs run
χ² / ndf 44.29 / 78
p0 −140.2 ± 434.5
pull
Entries 79
Mean 682.5
Std Dev 0
pull1D
Entries 79
Mean 0.002296
Std Dev 0.7488

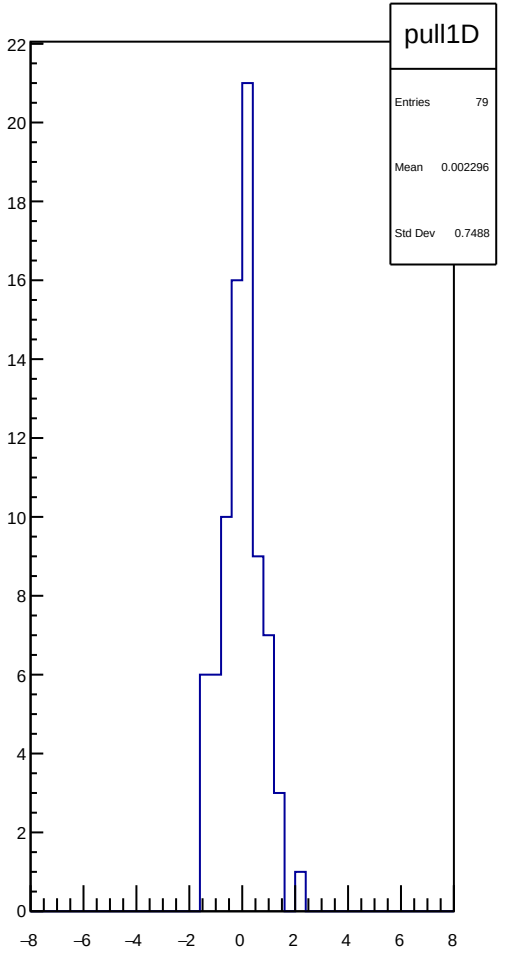

dit_asym_sam3_rms vs run
χ² / ndf 1.851e+04 / 78
p0 378.2 ± 0.3072
650
600
550
500
450
400
350
300

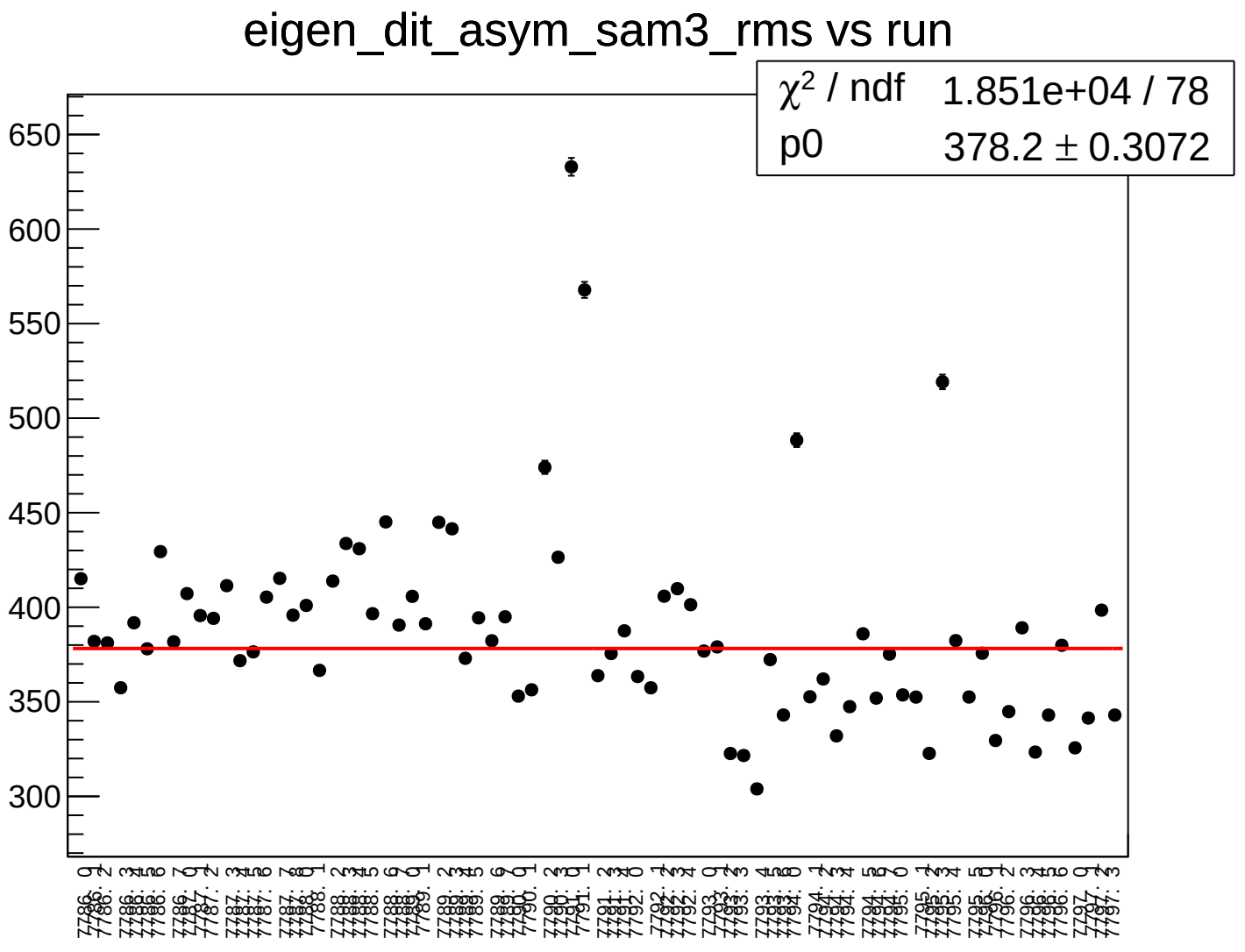

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 72.57 / 78
p0 −5782 ± 3667
100
50
0
−50
−100
pull
Entries 79
Mean −35.38
Std Dev 29.11
2
1.5
1
0.5
0
−0.5
−1
−1.5

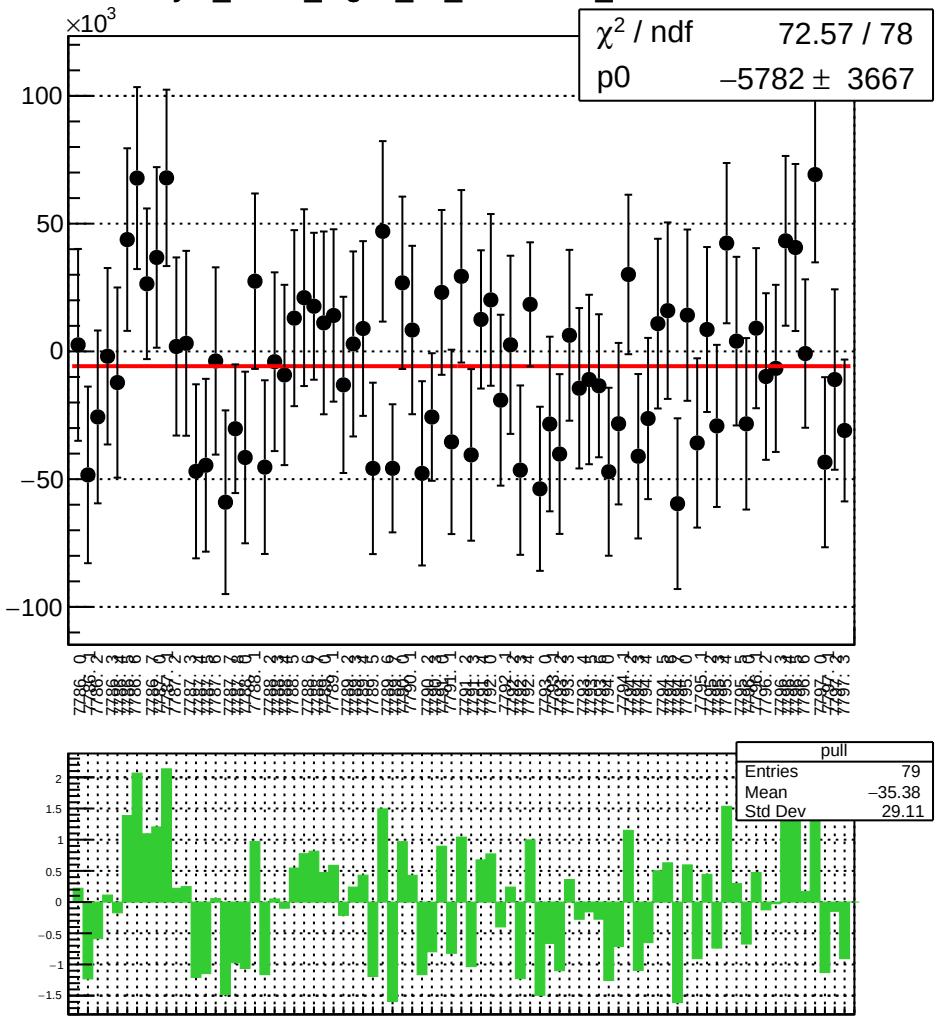

pull1D
Entries 79
Mean 0.01124
Std Dev 0.9584
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

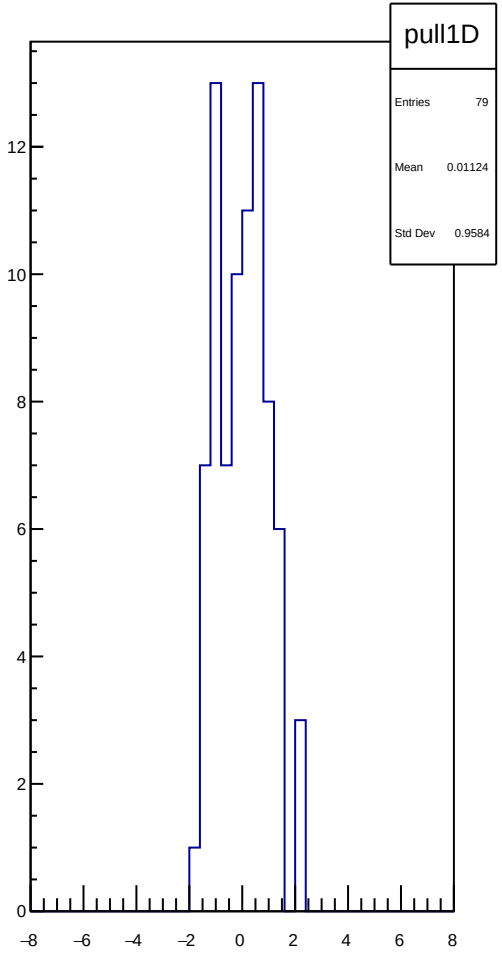

asym_sam3_dit_correction_rms vs run
χ² / ndf 2442 / 78
p0 3209 ± 2.593
3600
3500
3400
3300
3200
3100
3000
2900

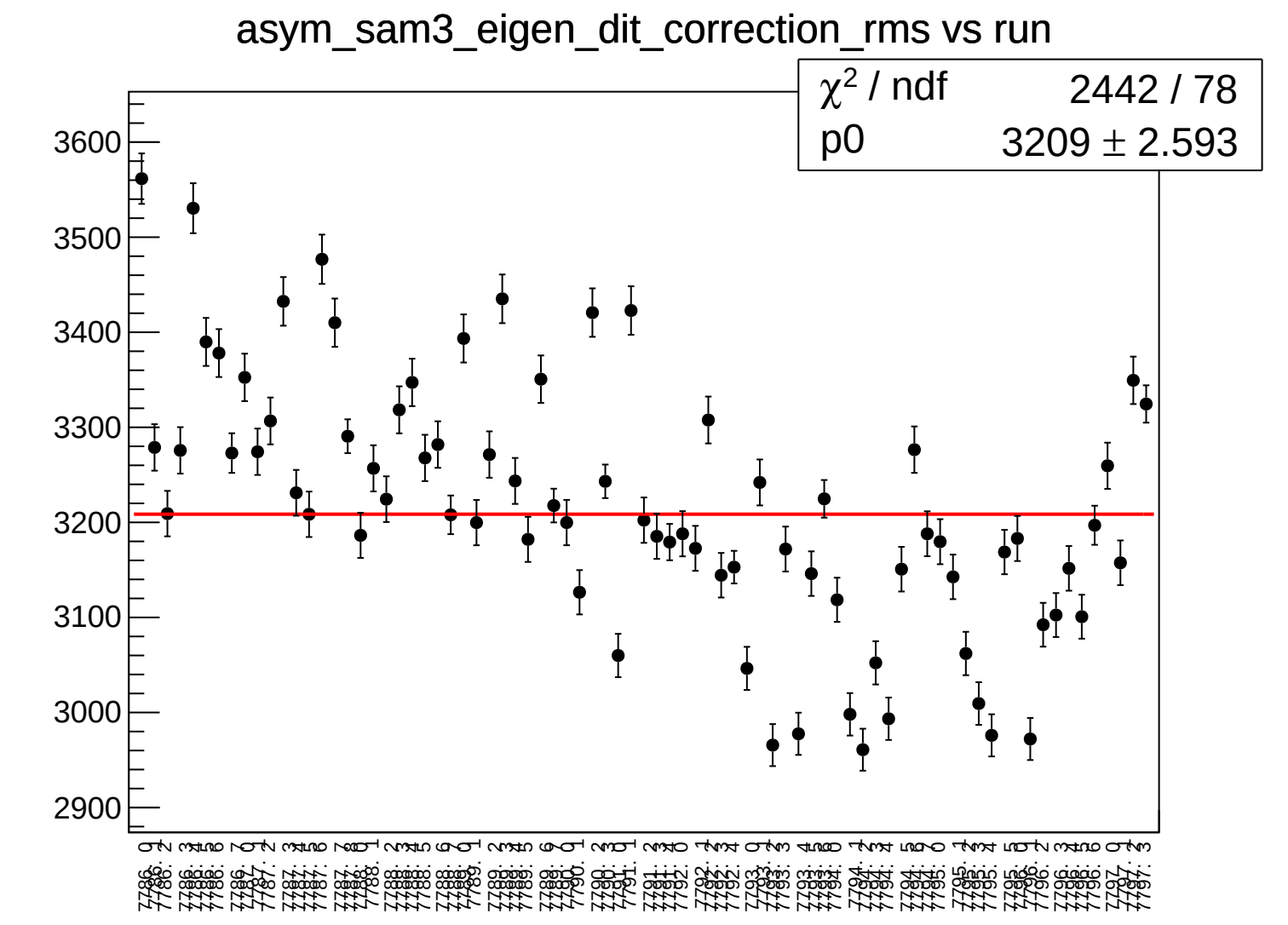

eigen_dit_asym_sam3_mean vs run
χ² / ndf 44.29 / 78
p0 −140.2 ± 434.5
15000
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 682.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

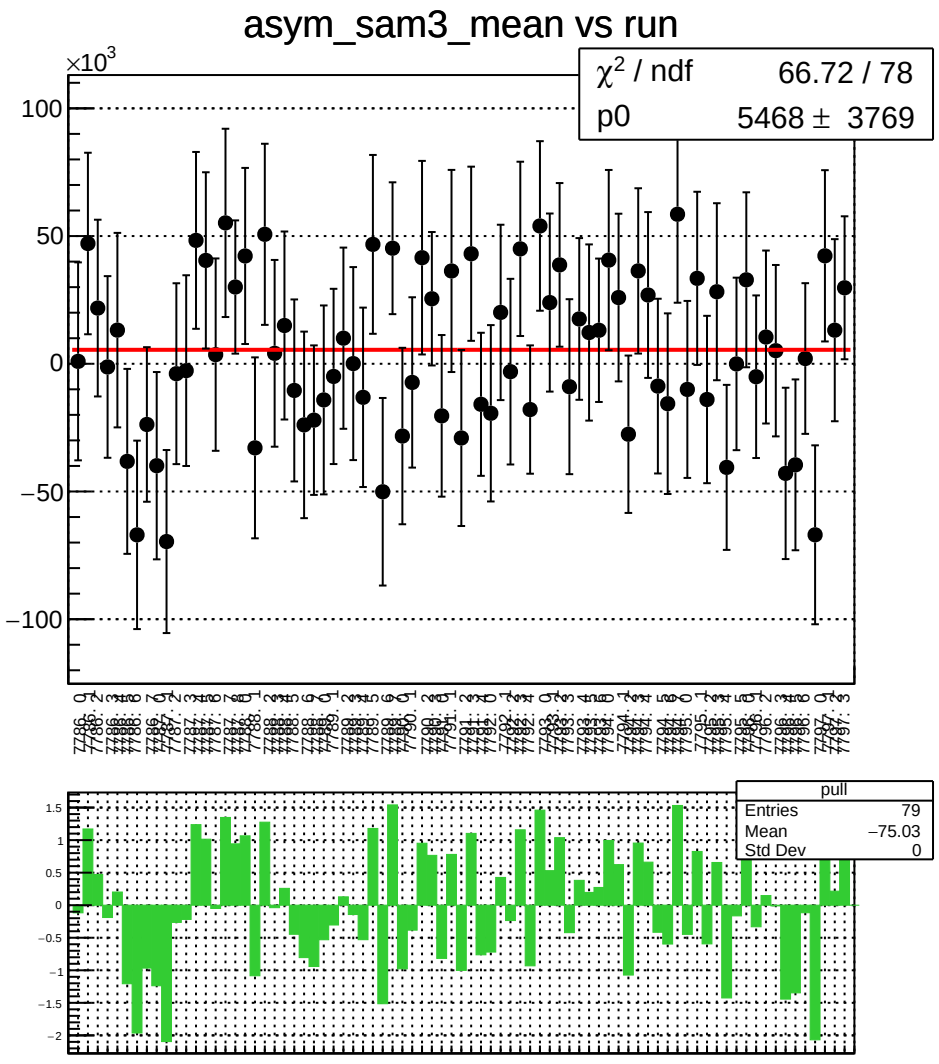

pull1D
Entries 79
Mean 0.002296
Std Dev 0.7488
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

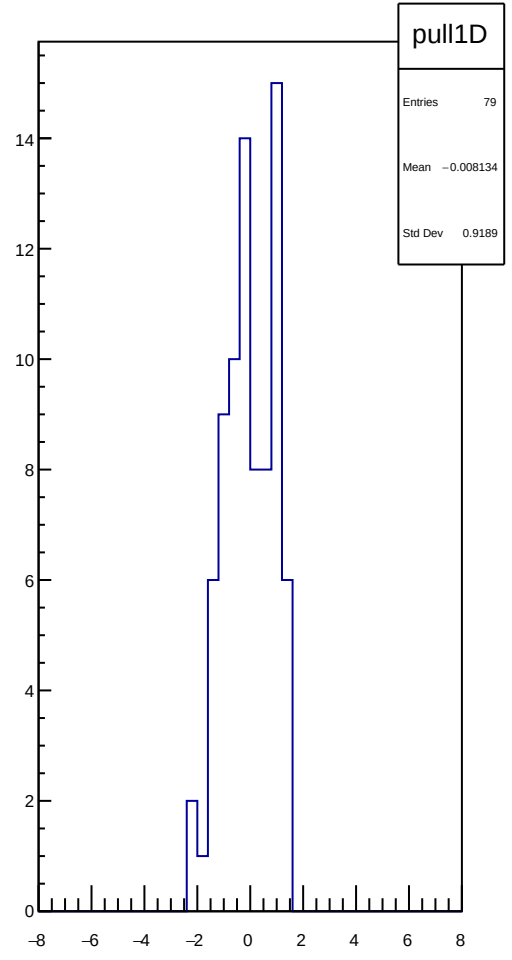

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 1.851e+04 / 78
p0 378.2 ± 0.3072
650
600
550
500
450
400
350
300

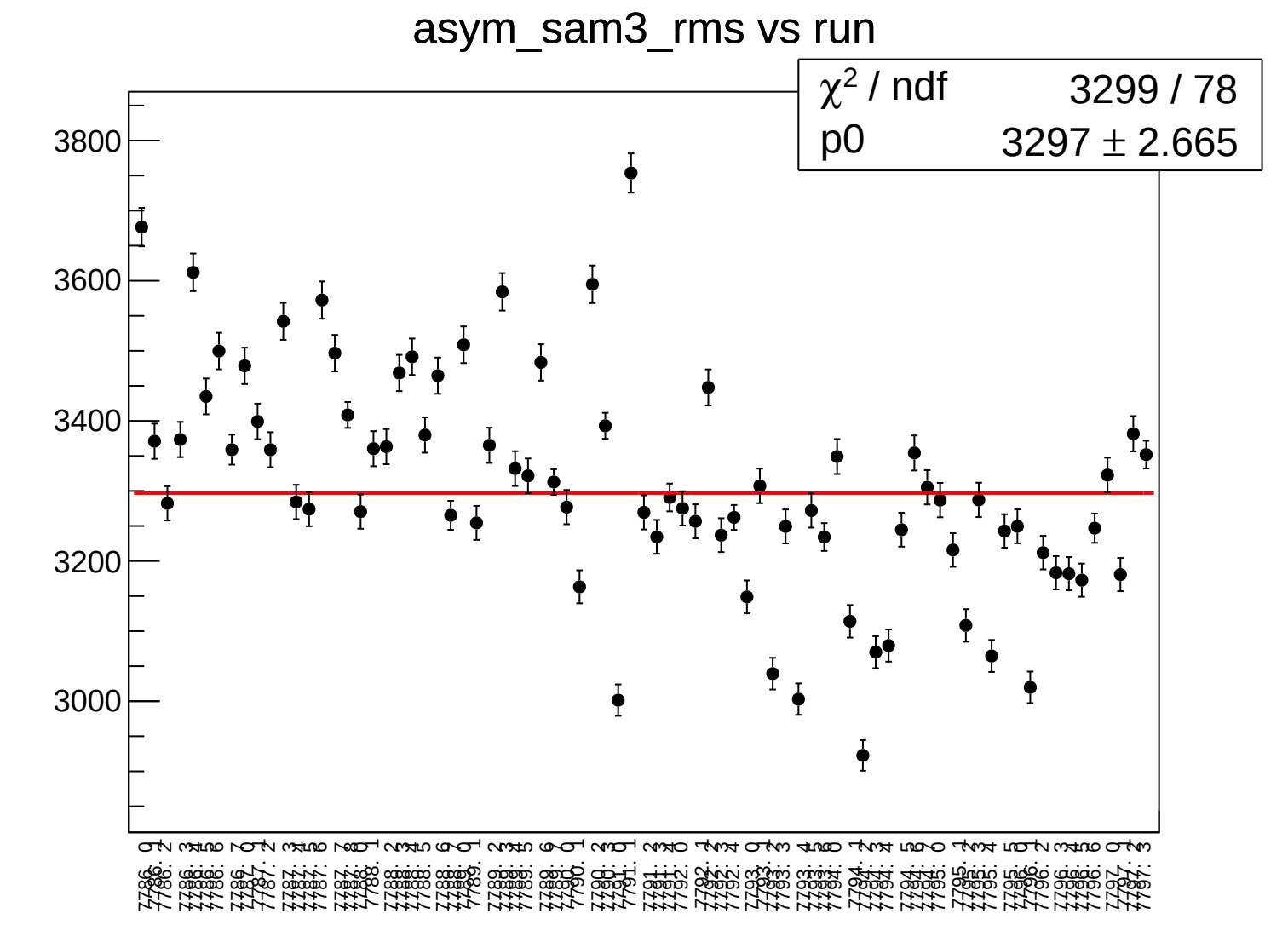

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.57 / 78
p0 −5782 ± 3667
100
50
0
−50
−100
pull
Entries 79
Mean −35.38
Std Dev 29.11
2
1.5
1
0.5
0
−0.5
−1
−1.5

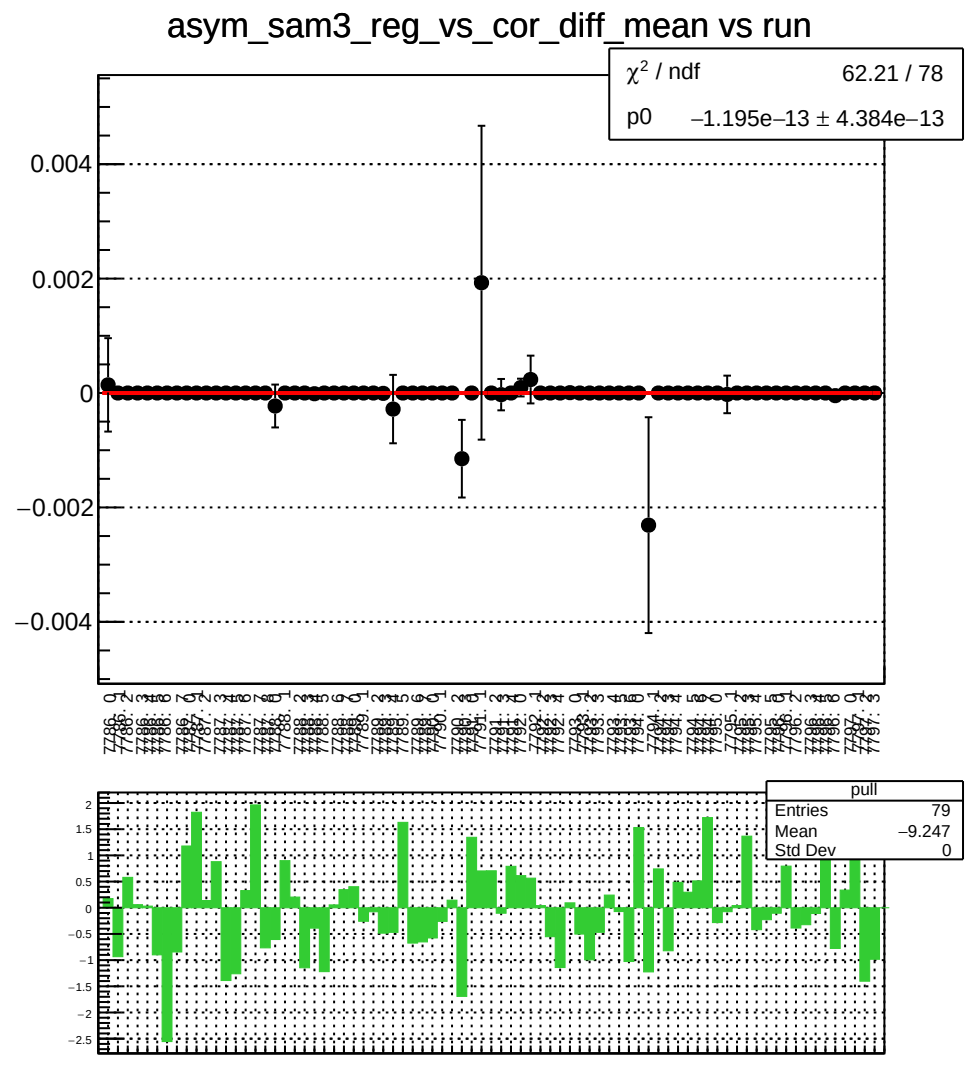

pull1D
Entries 79
Mean 0.01124
Std Dev 0.9584
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

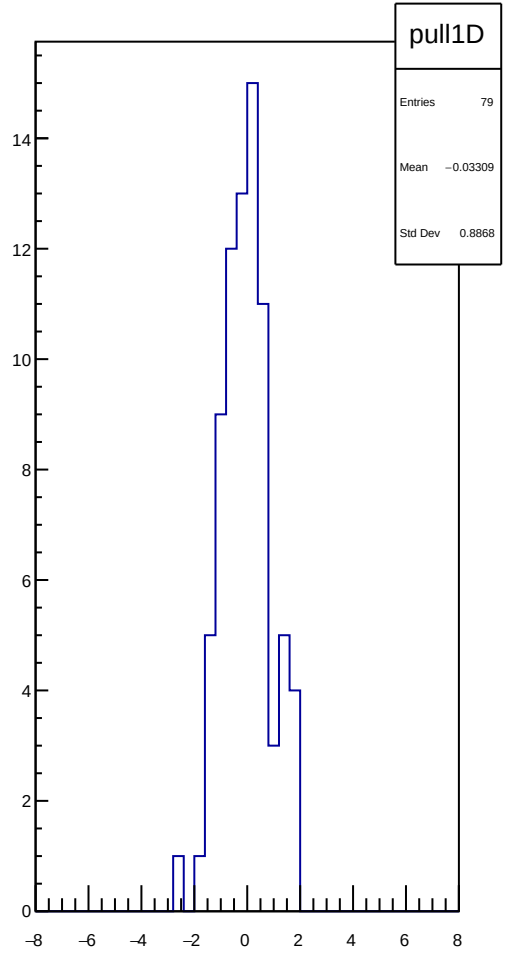

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2442 / 78
p0 3209 ± 2.593
3600
3500
3400
3300
3200
3100
3000
2900

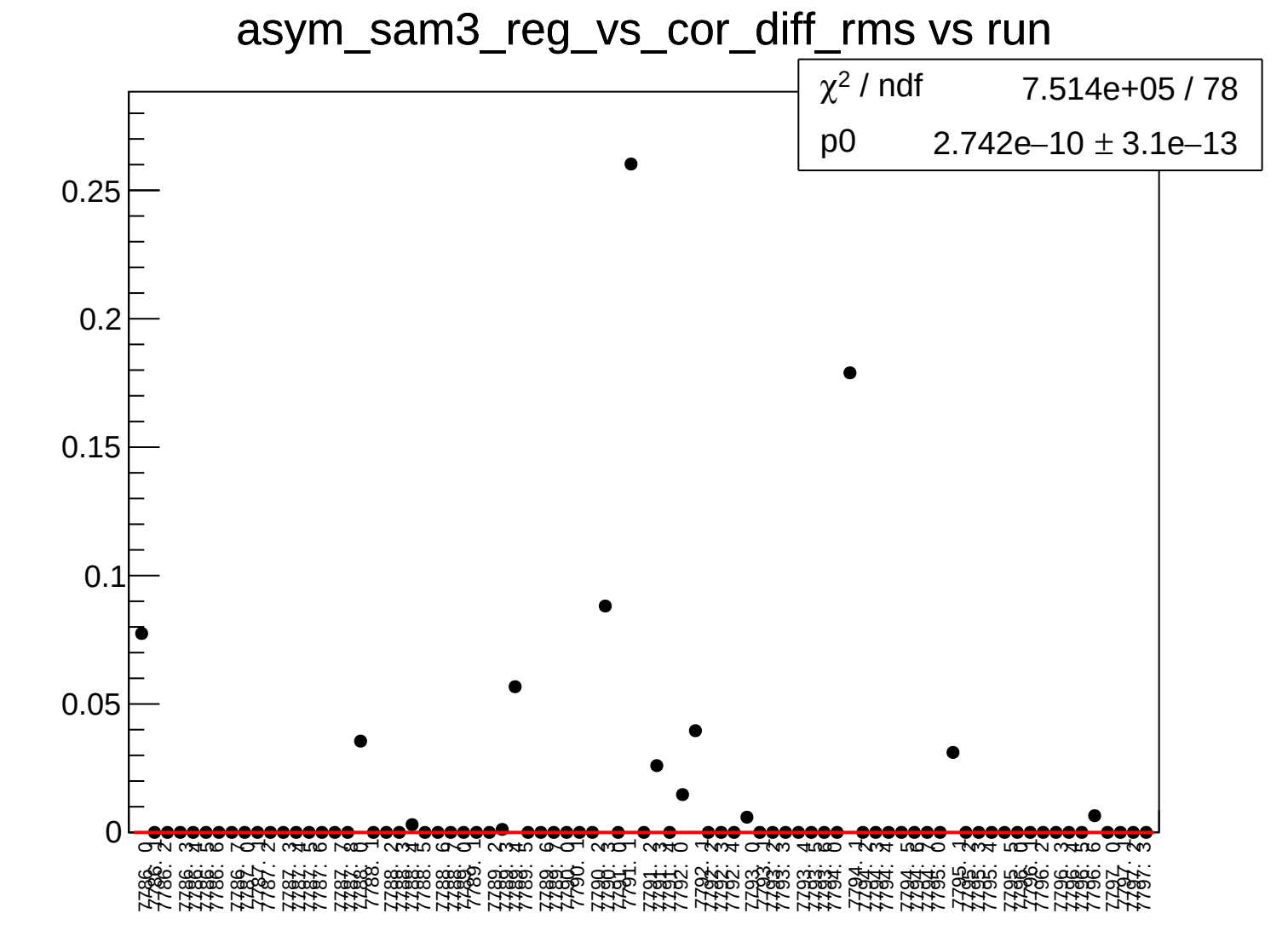

asym_sam3_mean vs run
×10^3
χ² / ndf 66.72 / 78
p0 5468 ± 3769
100
50
0
−50
−100
pull
Entries 79
Mean −75.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

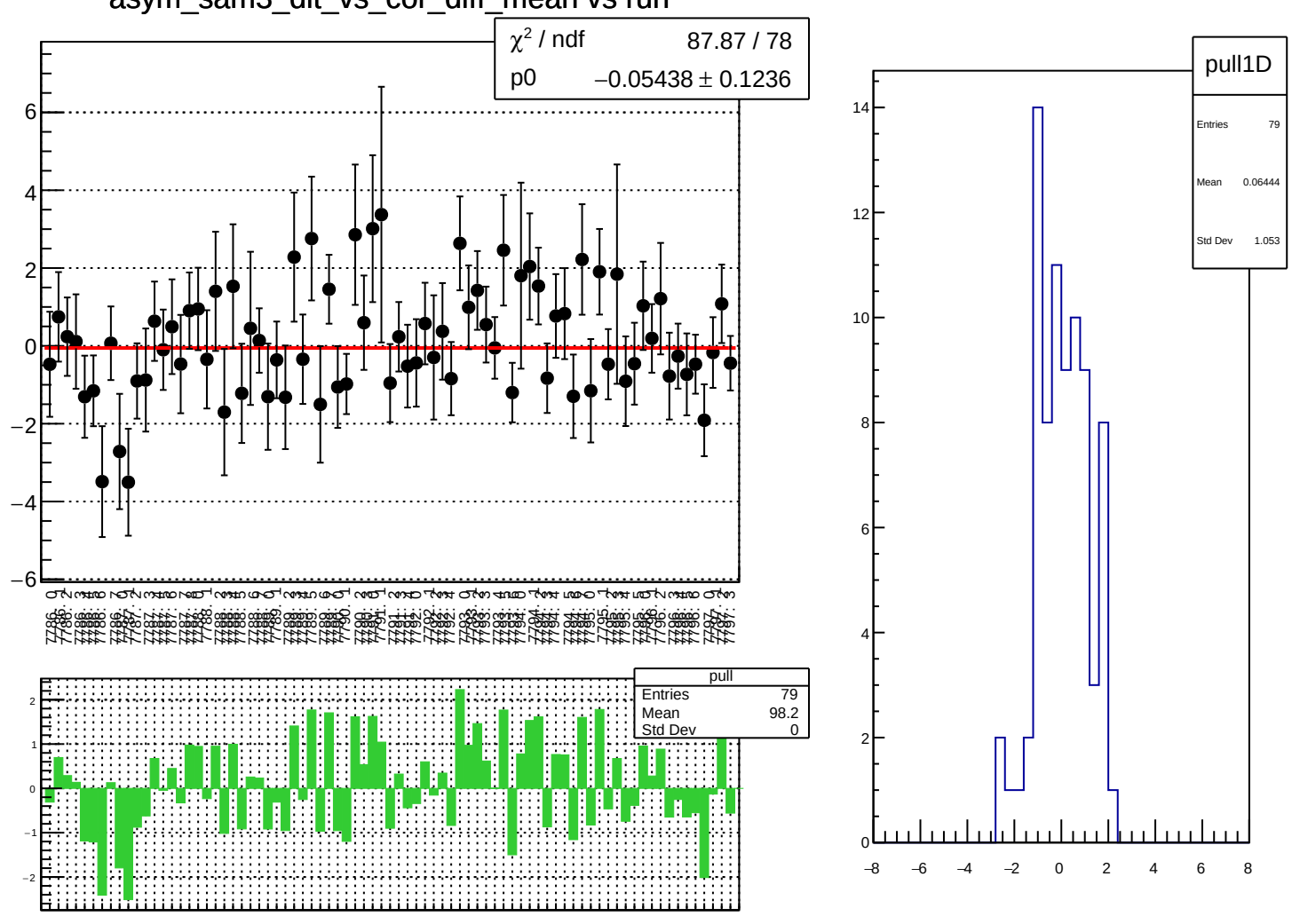

pull1D
Entries 79
Mean −0.008134
Std Dev 0.9189
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

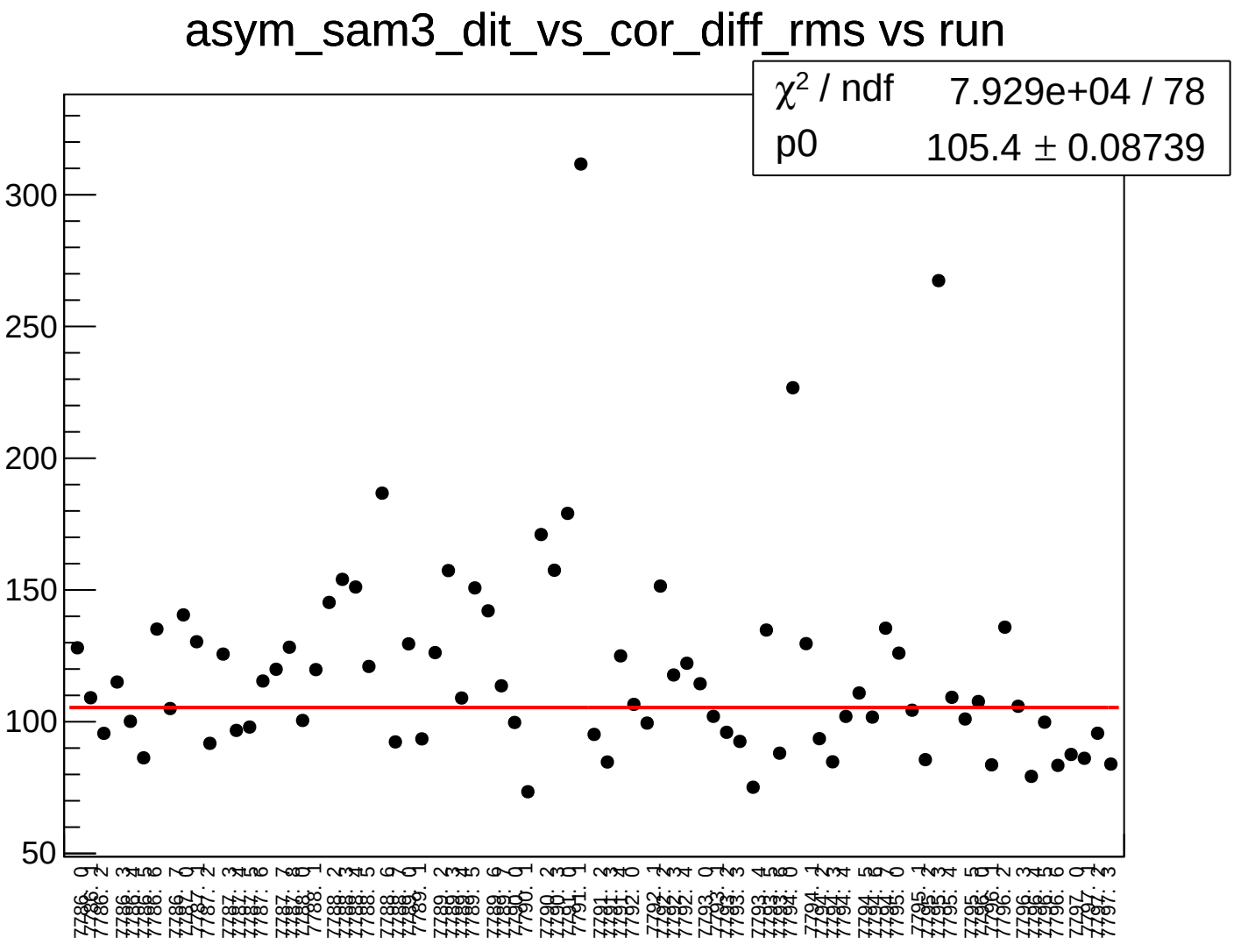

asym_sam3_rms vs run
χ² / ndf 3299 / 78
p0 3297 ± 2.665
3800
3600
3400
3200
3000

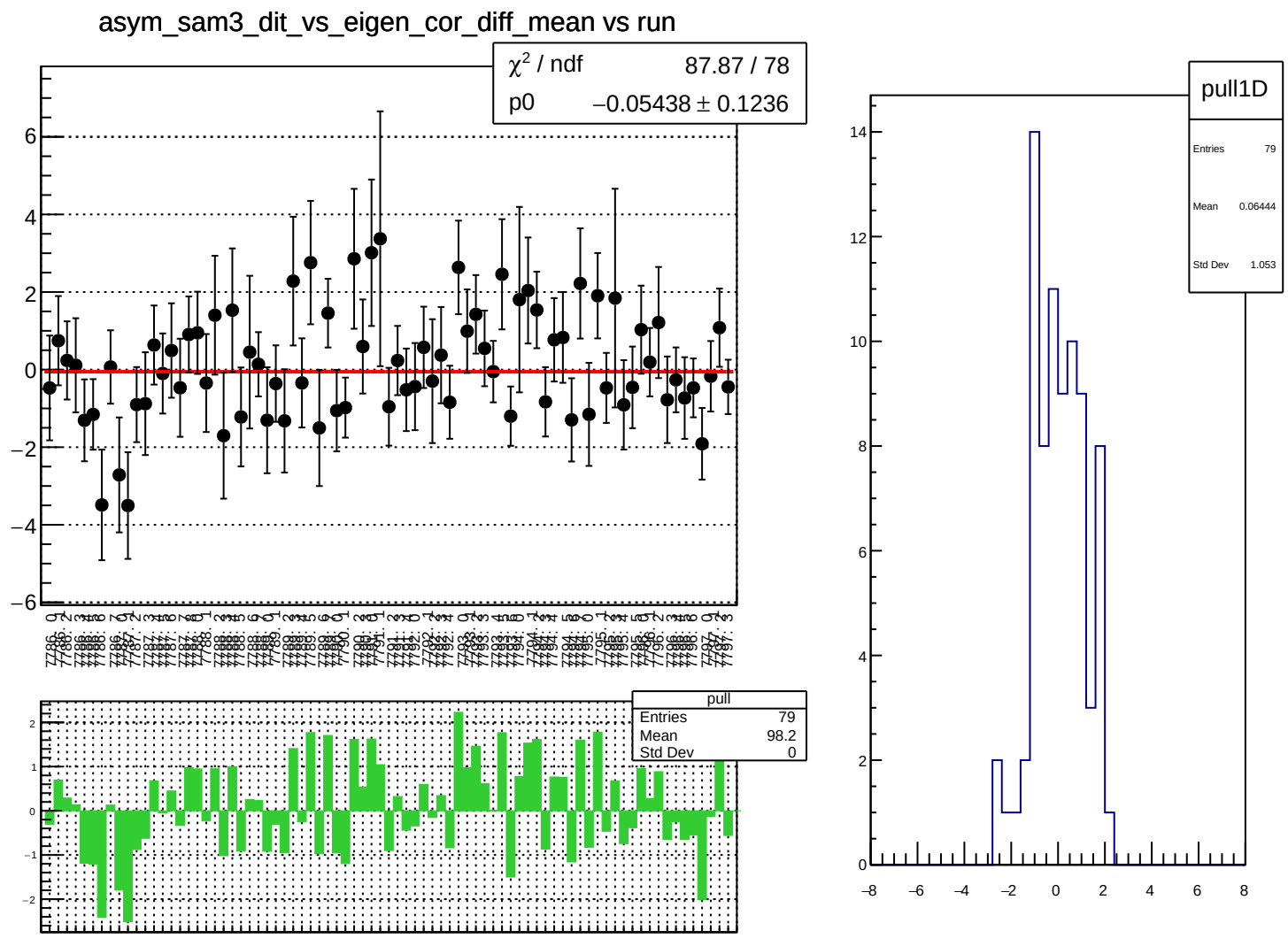

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 62.21 / 78
p0 −1.195e−13 ± 4.384e−13
0.004
0.002
0
−0.002
−0.004
pull
Entries 79
Mean −9.247
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

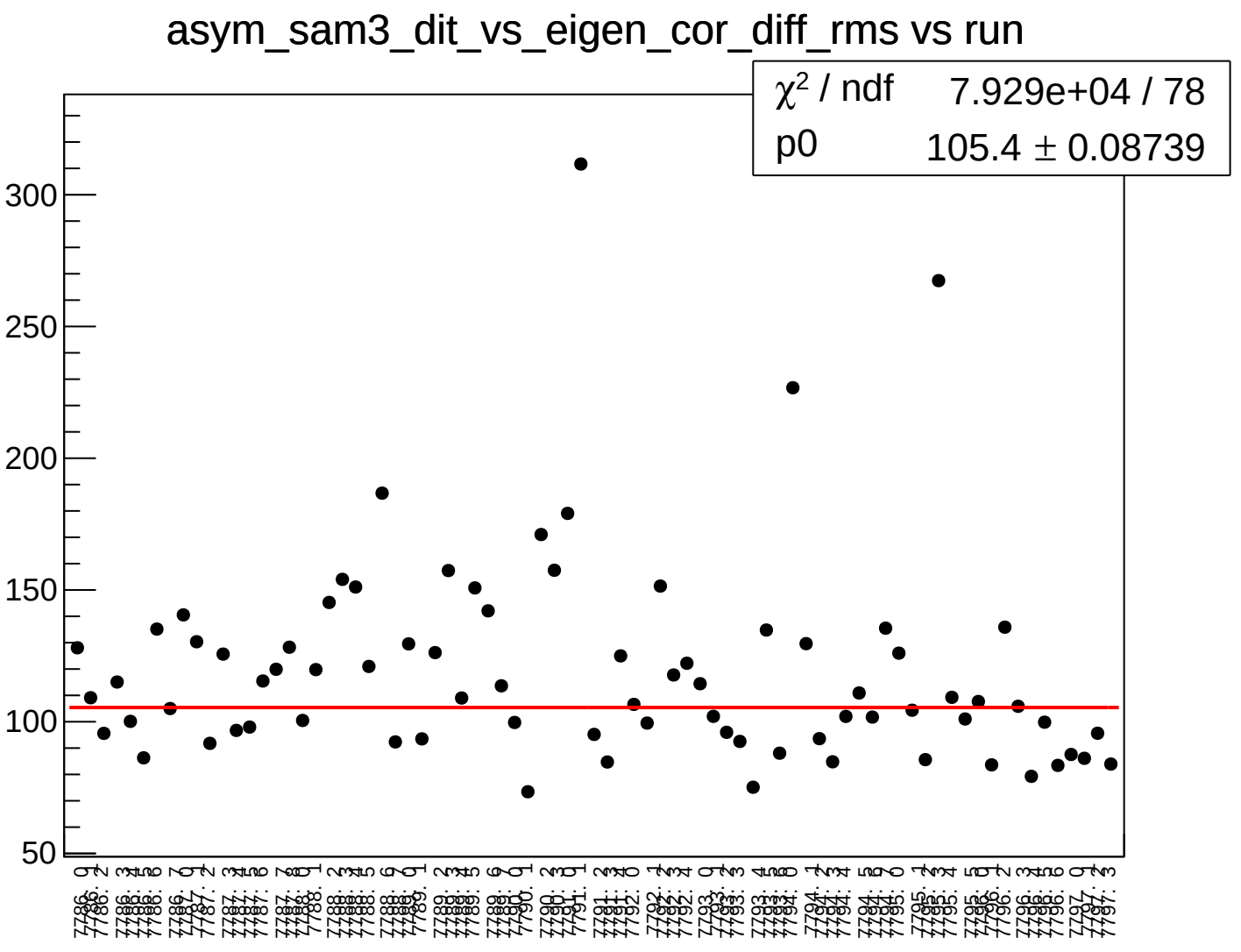

pull1D
Entries 79
Mean −0.03309
Std Dev 0.8868
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

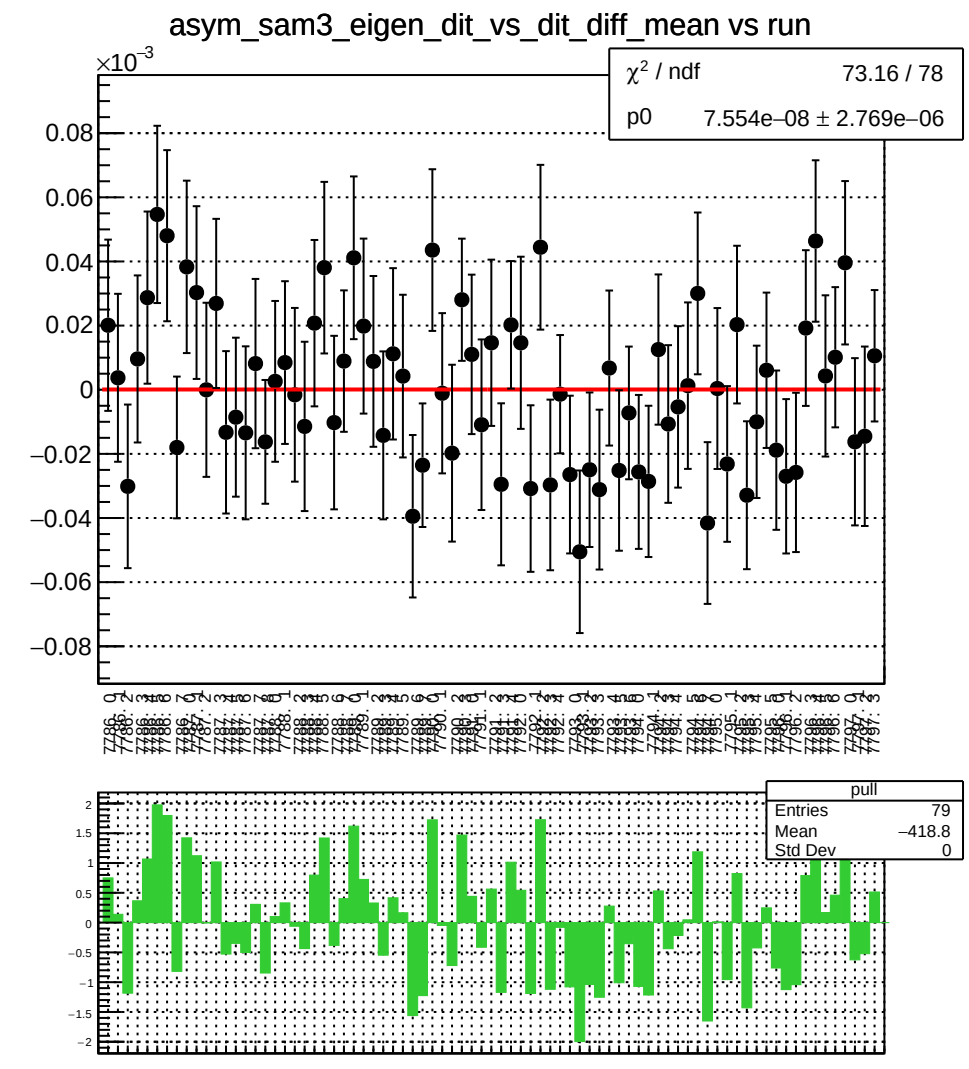

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 7.514e+05 / 78
p0 2.742e−10 ± 3.1e−13
0.25
0.2
0.15
0.1
0.05
0

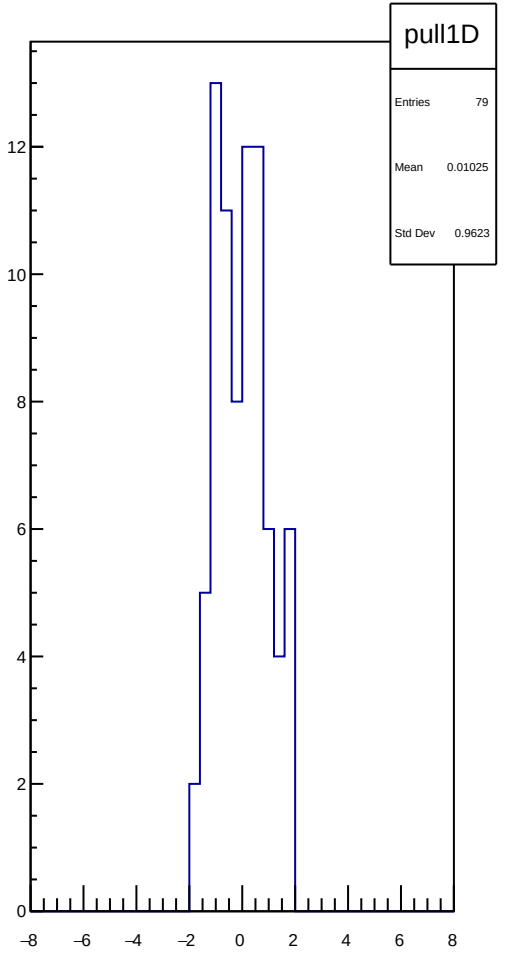

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 87.87 / 78
p0 −0.05438 ± 0.1236
pull
Entries 79
Mean 98.2
Std Dev 0
pull1D
Entries 79
Mean 0.06444
Std Dev 1.053

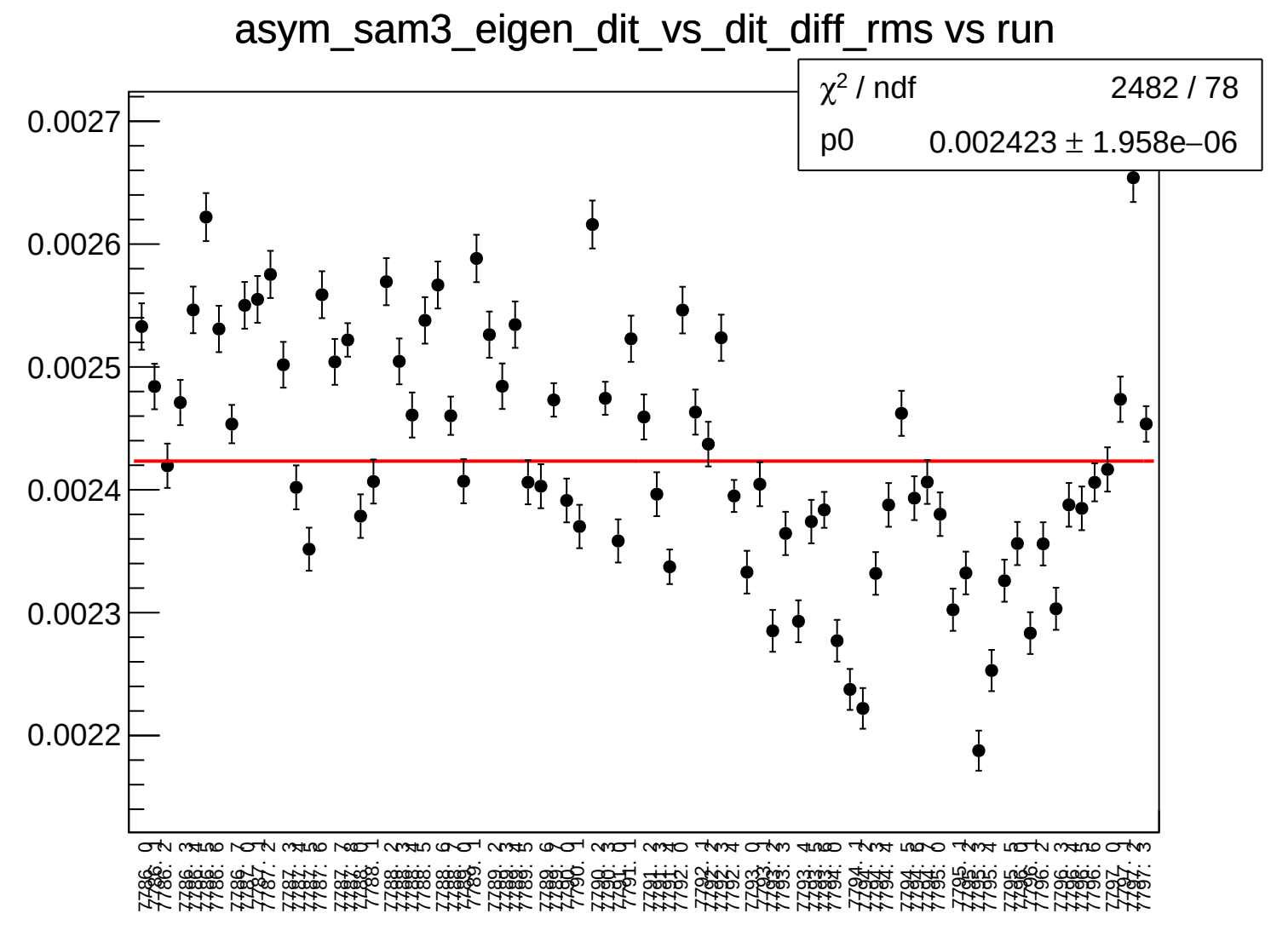

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 7.929e+04 / 78
p0 105.4 ± 0.08739
300
250
200
150
100
50

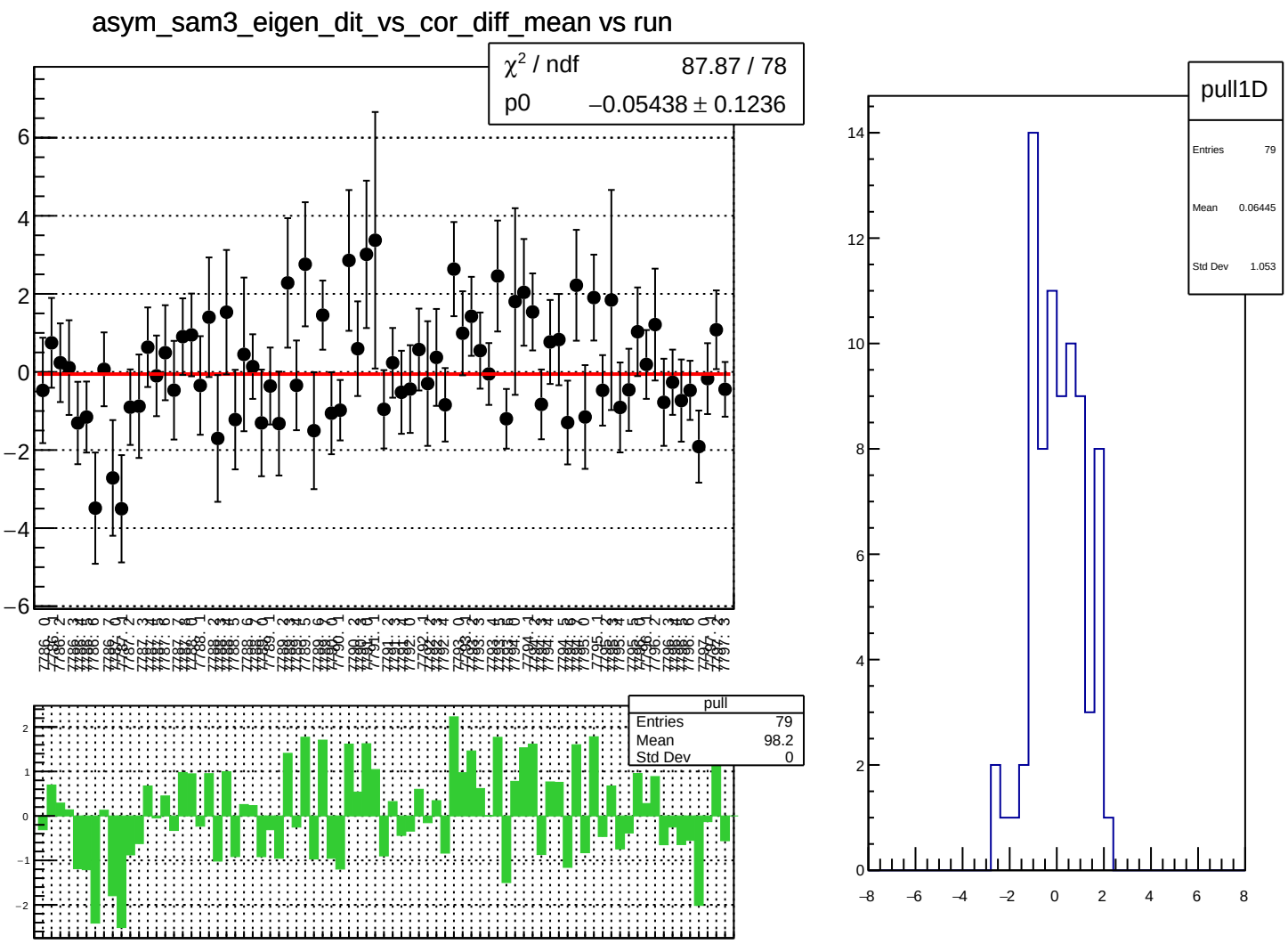

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.87 / 78
p0 −0.05438 ± 0.1236
pull
Entries 79
Mean 98.2
Std Dev 0
pull1D
Entries 79
Mean 0.06444
Std Dev 1.053

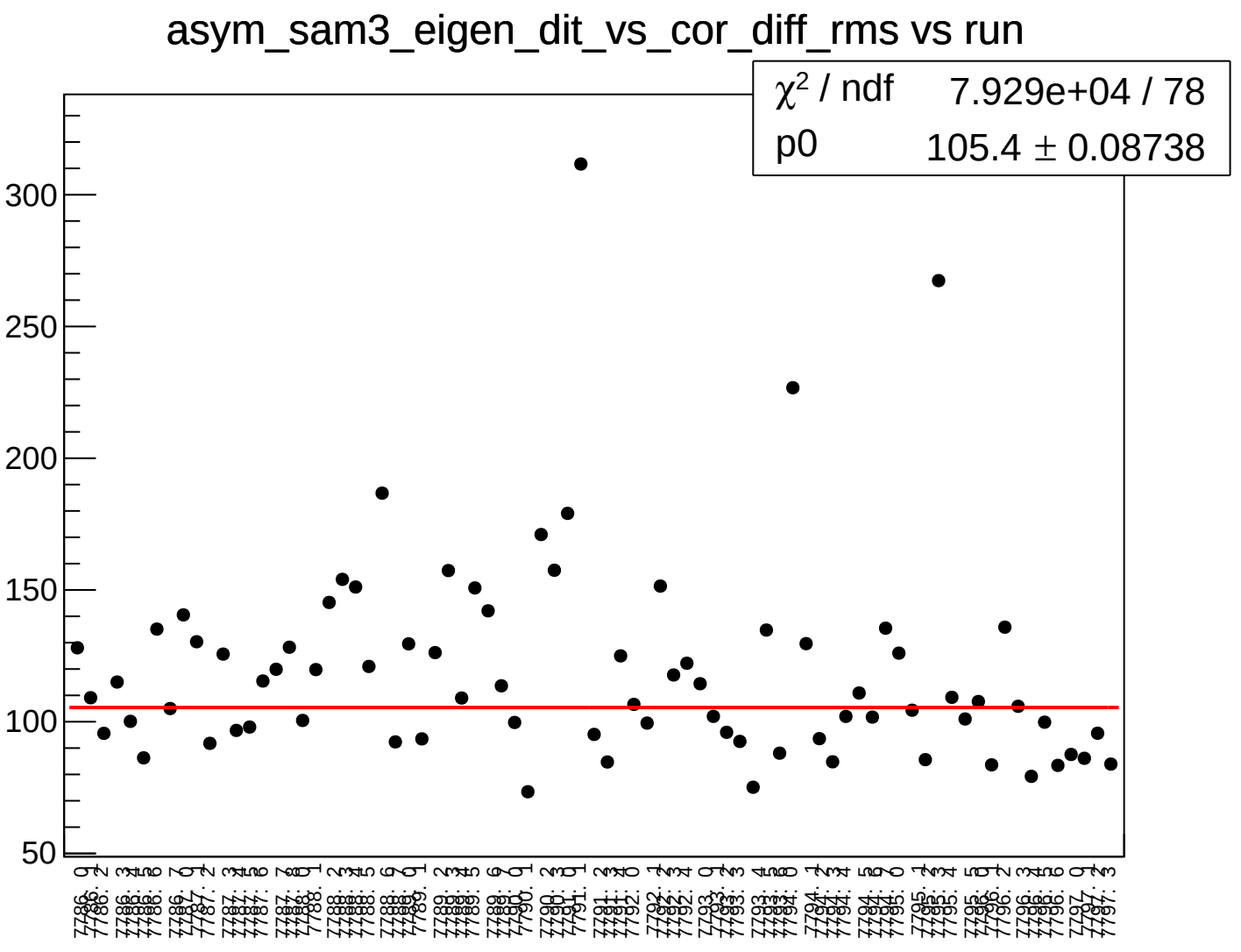

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.929e+04 / 78
p0 105.4 ± 0.08739
300
250
200
150
100
50

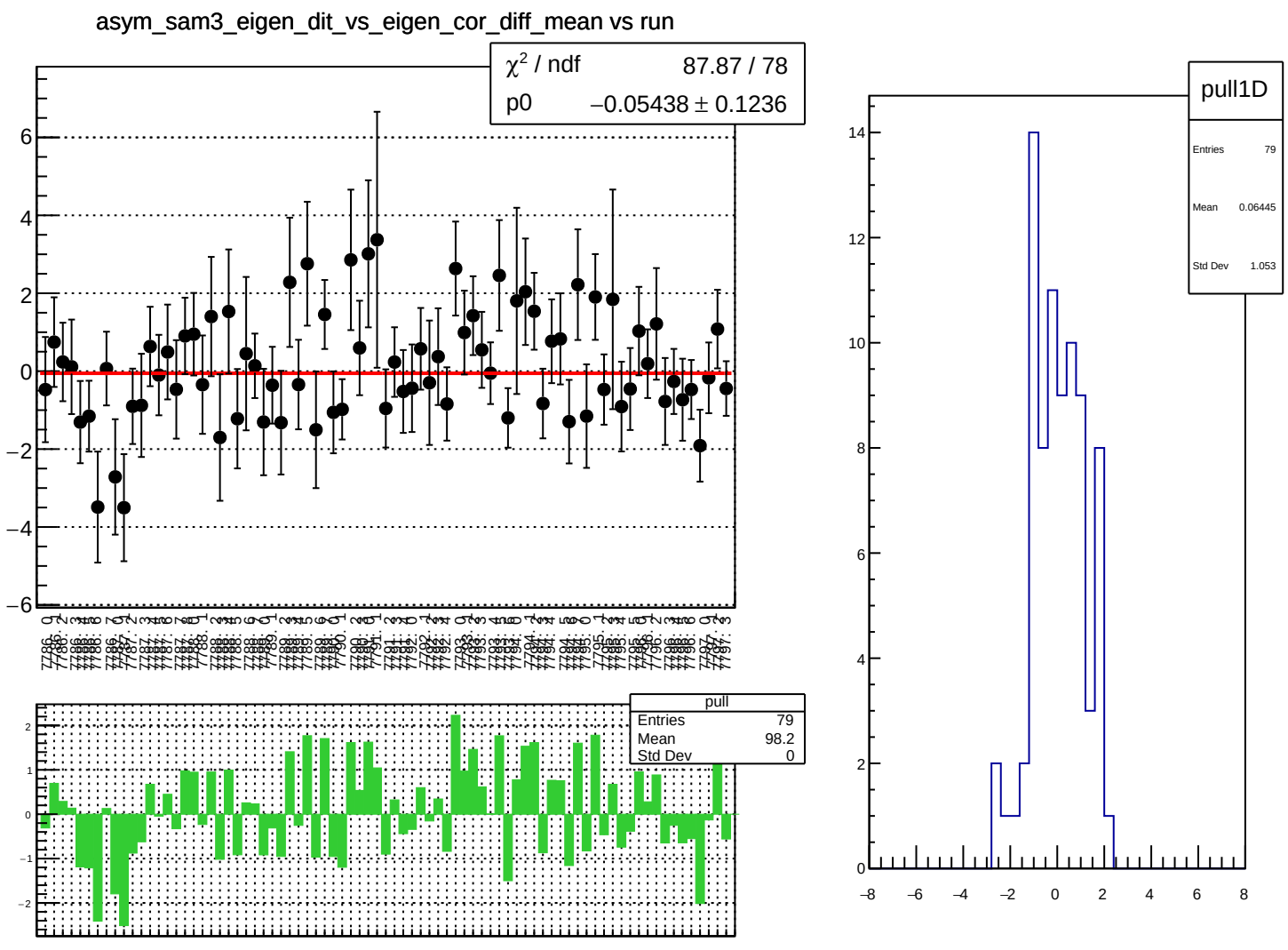

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.16 / 78
p0 7.554e−08 ± 2.769e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 79
Mean −418.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

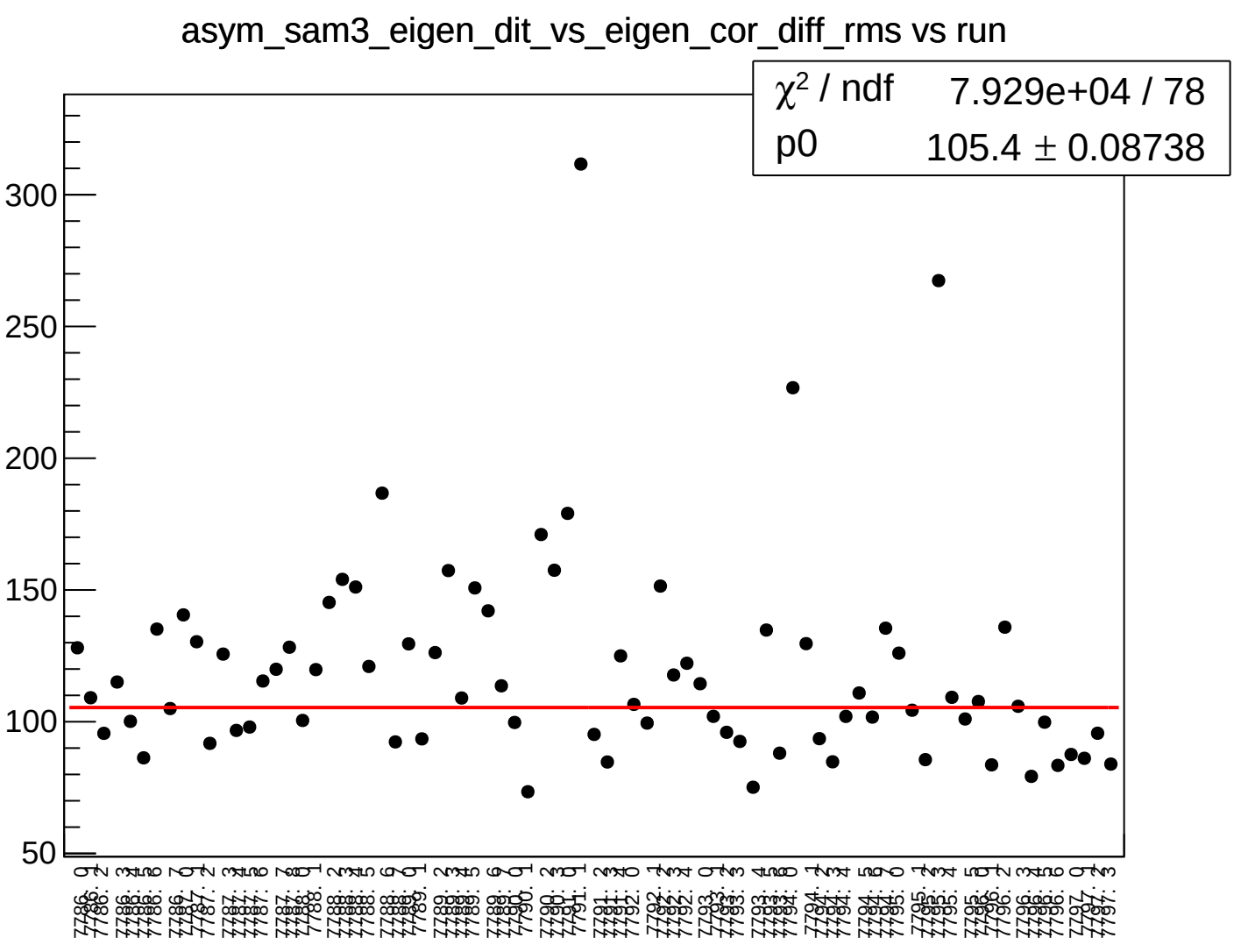

pull1D
Entries 79
Mean 0.01025
Std Dev 0.9623
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

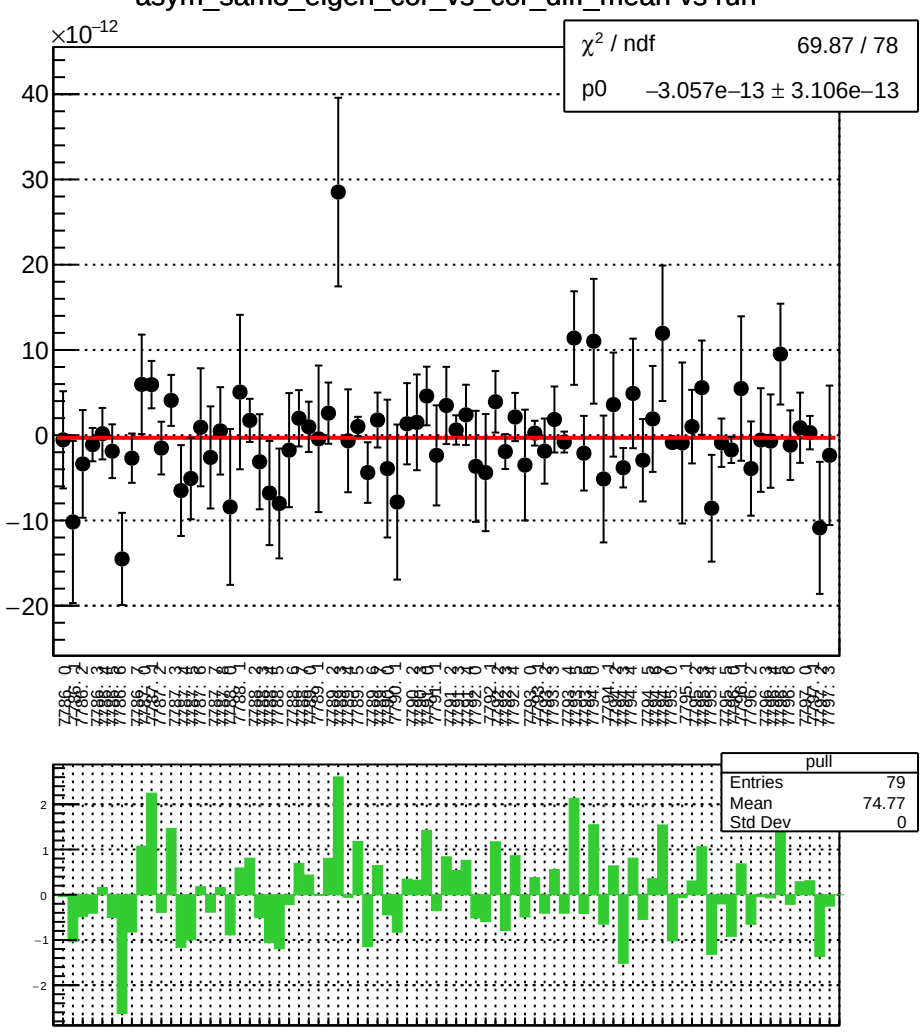

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2482 / 78
p0 0.002423 ± 1.958e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

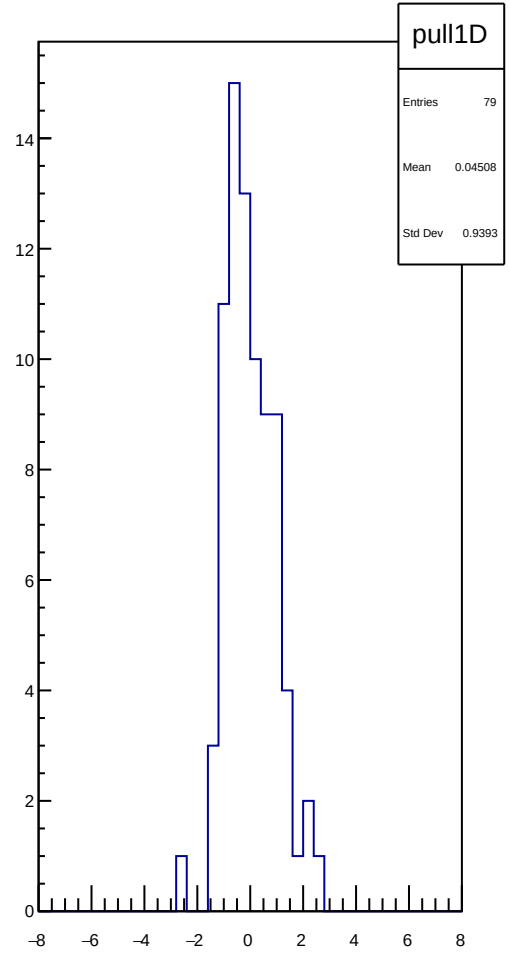

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.87 / 78
p0 −0.05438 ± 0.1236
pull
Entries 79
Mean 98.2
Std Dev 0
pull1D
Entries 79
Mean 0.06445
Std Dev 1.053

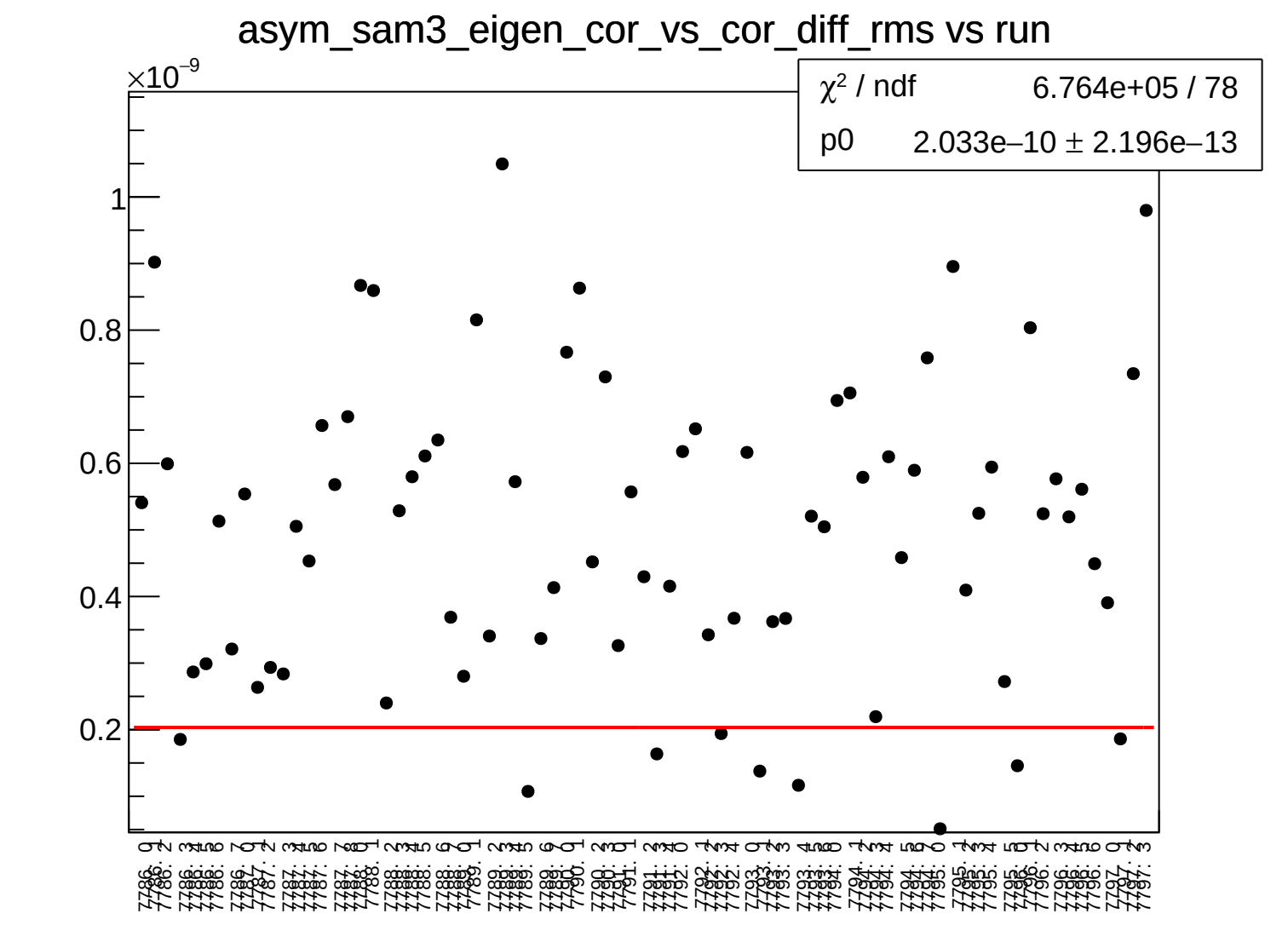

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.929e+04 / 78
p0 105.4 ± 0.08738
300
250
200
150
100
50

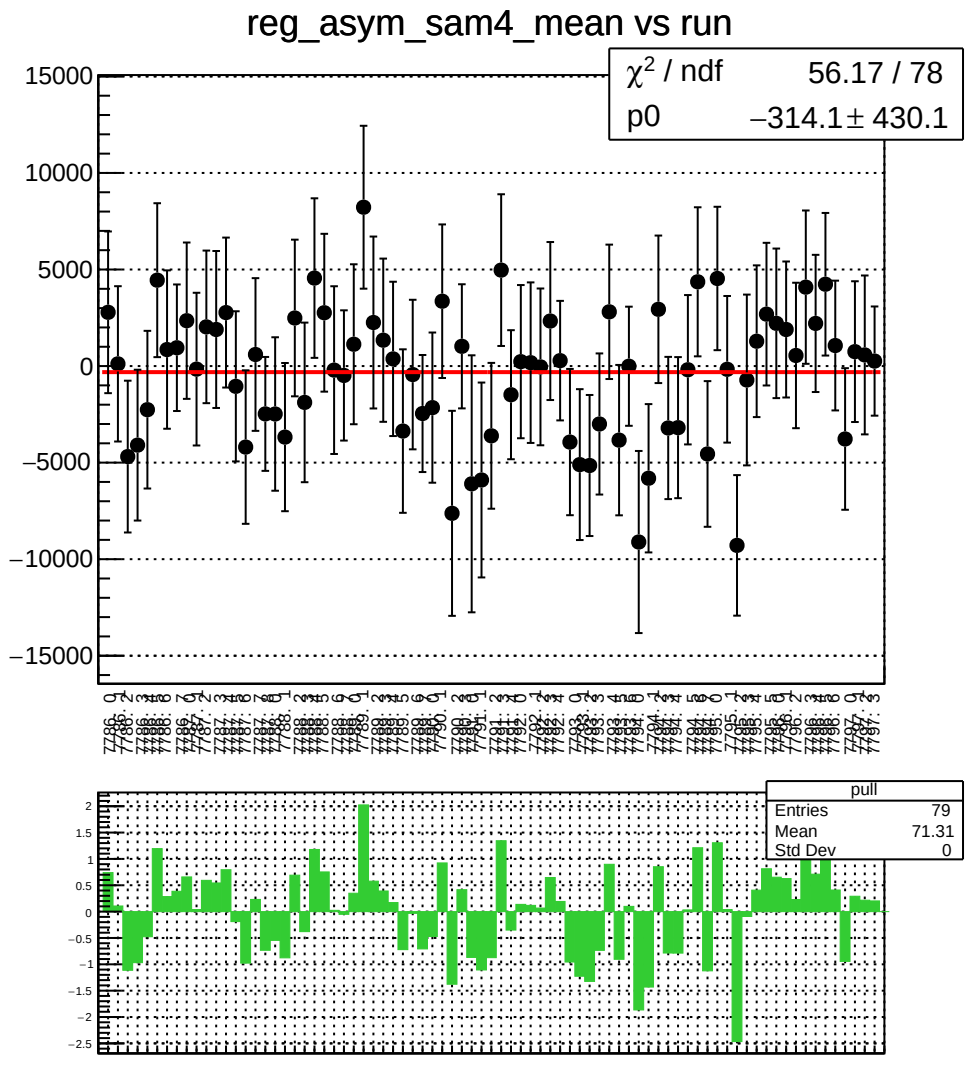

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.87 / 78
p0 −0.05438 ± 0.1236
pull
Entries 79
Mean 98.2
Std Dev 0
pull1D
Entries 79
Mean 0.06445
Std Dev 1.053

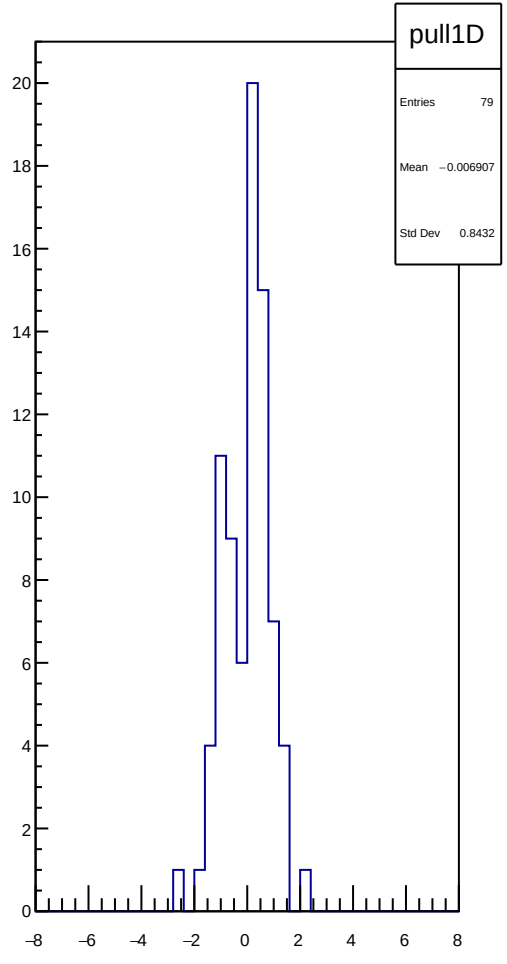

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.929e+04 / 78
p0 105.4 ± 0.08738
300
250
200
150
100
50

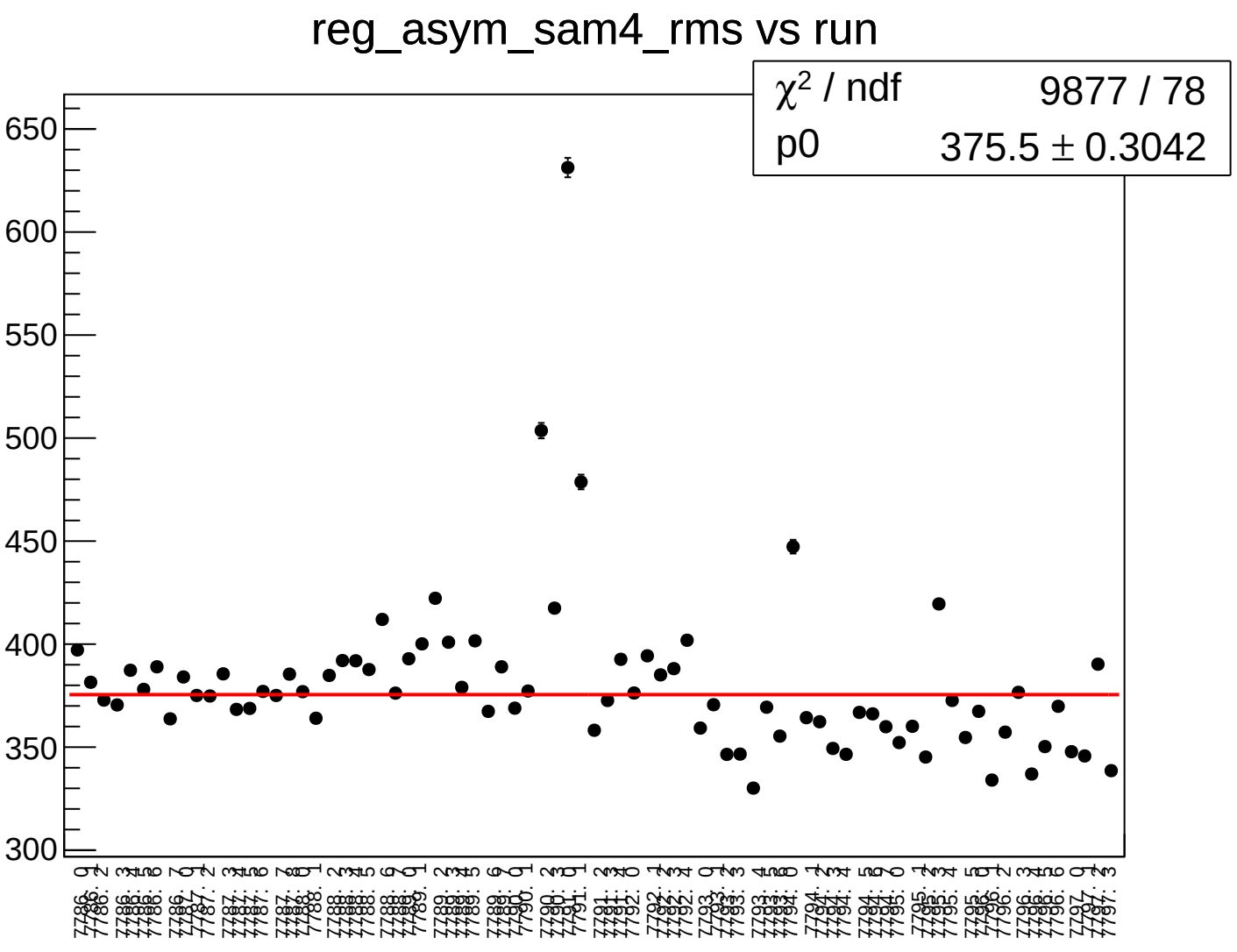

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.87 / 78
p0 −3.057e−13 ± 3.106e−13
pull
Entries 79
Mean 74.77
Std Dev 0

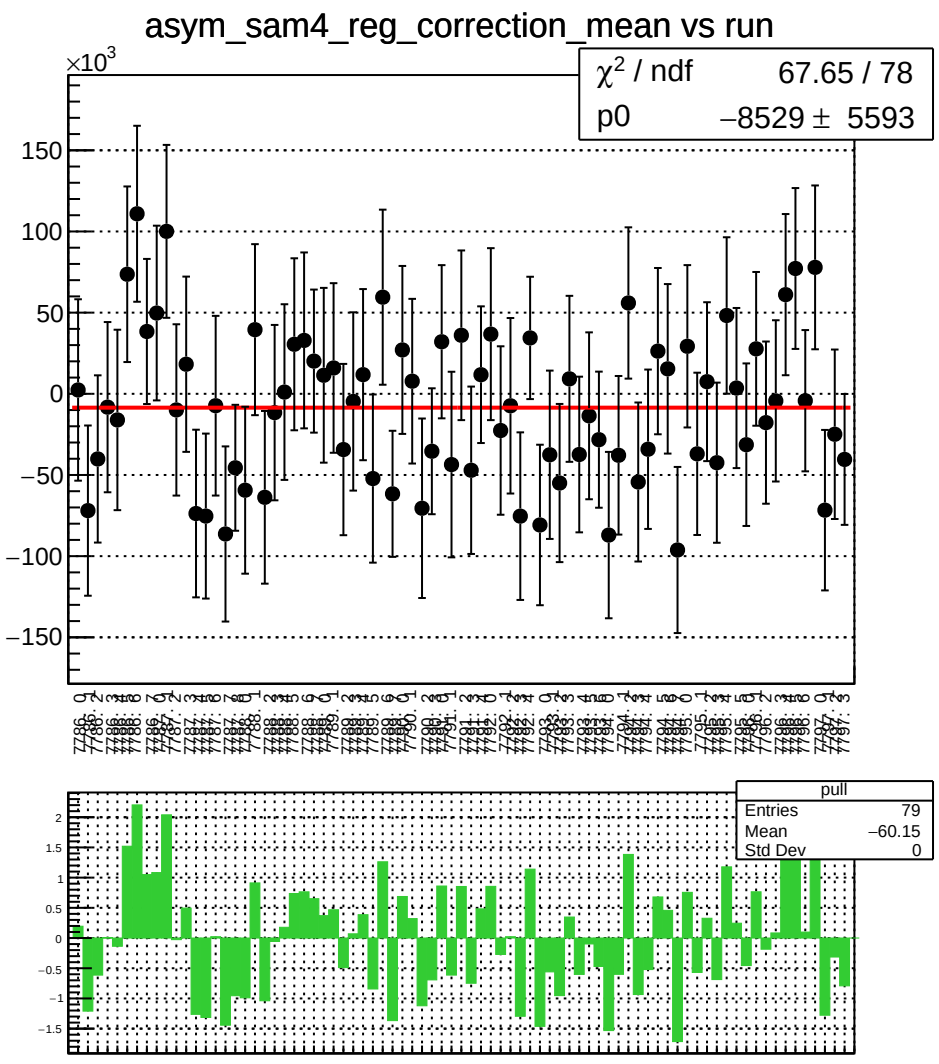

pull1D
Entries 79
Mean 0.04508
Std Dev 0.9393

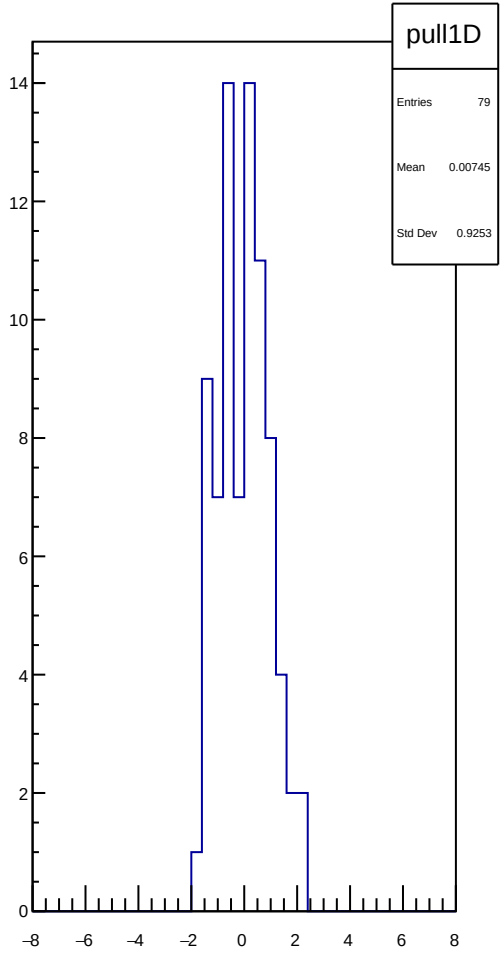

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.764e+05 / 78
p0 2.033e−10 ± 2.196e−13
1
0.8
0.6
0.4
0.2


reg_asym_sam4_mean vs run
χ² / ndf 56.17 / 78
p0 −314.1 ± 430.1
pull
Entries 79
Mean 71.31
Std Dev 0

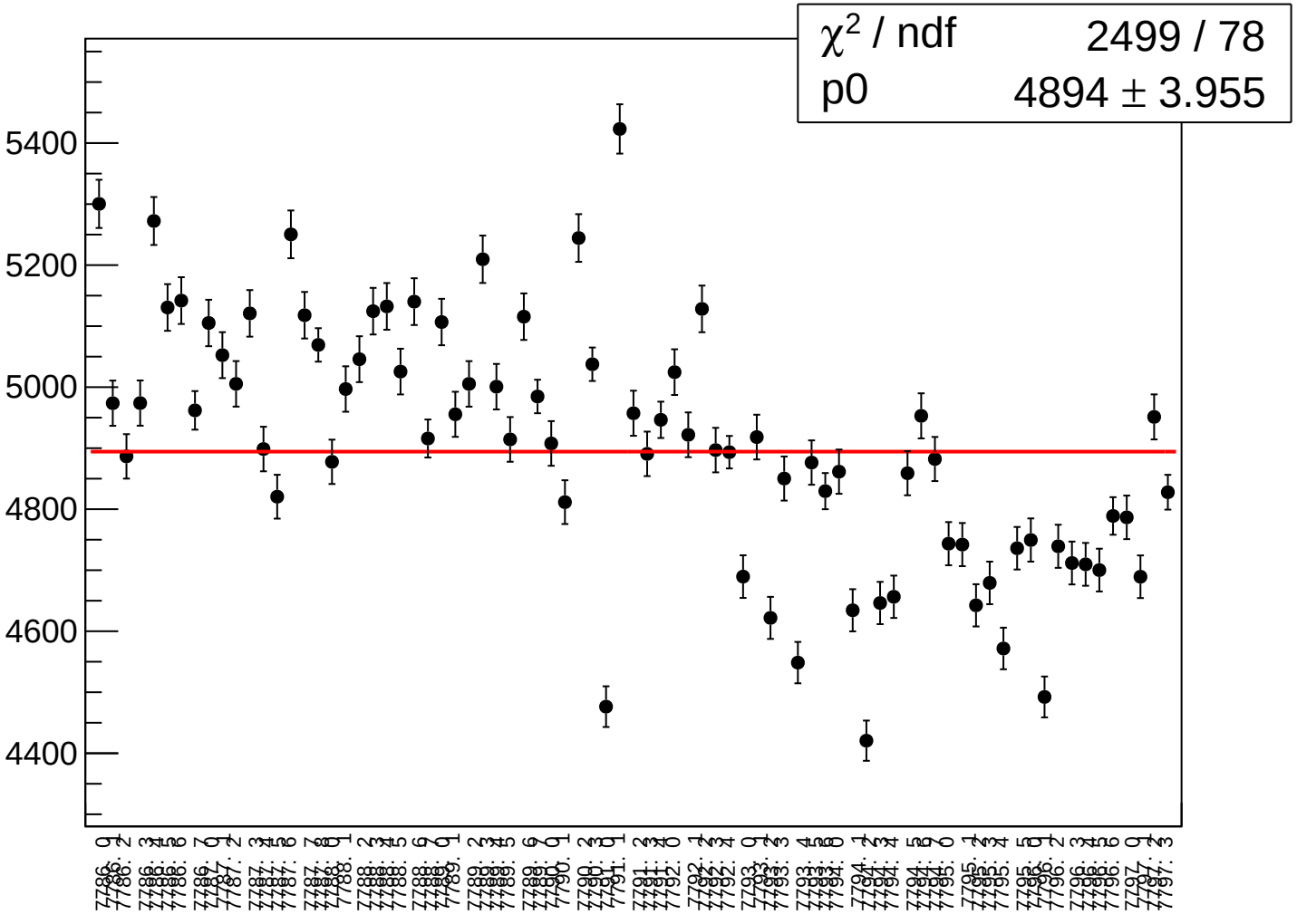

pull1D
Entries 79
Mean −0.006907
Std Dev 0.8432

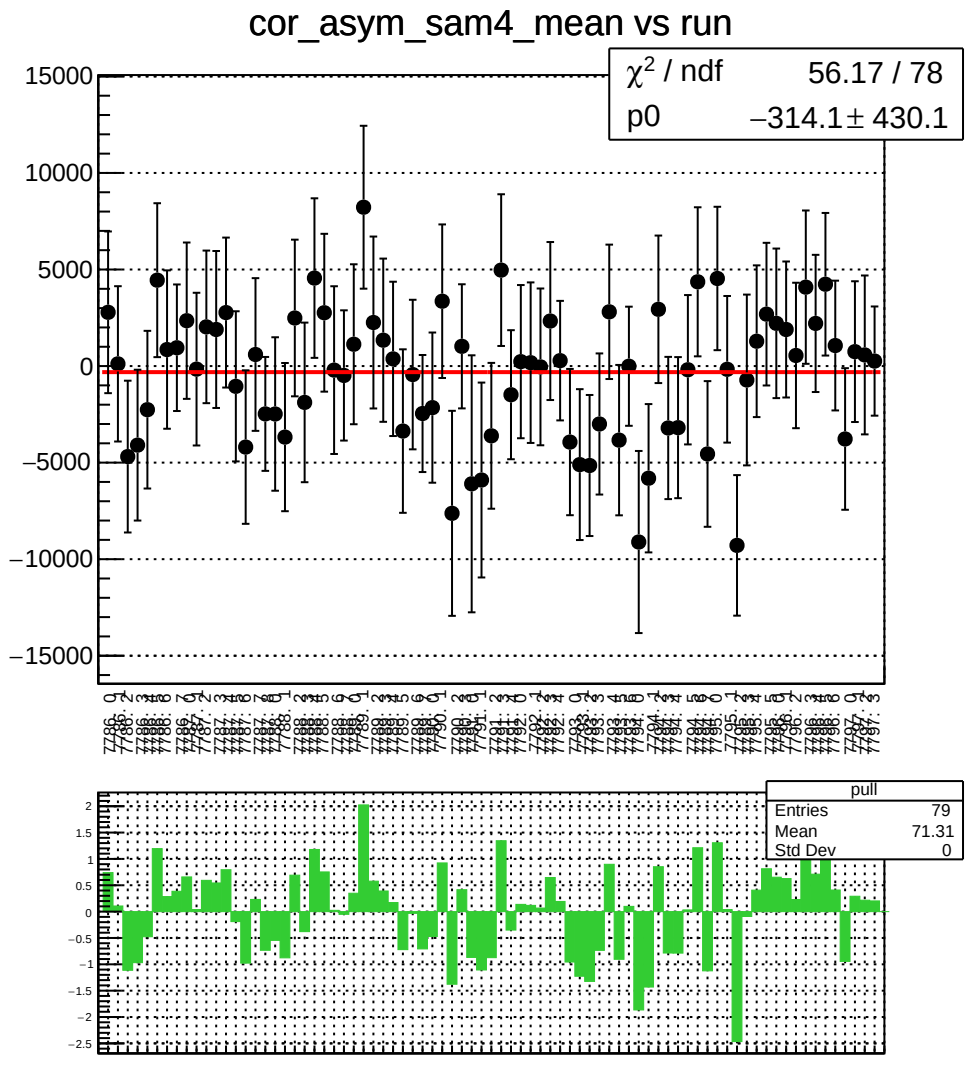

reg_asym_sam4_rms vs run
χ² / ndf 9877 / 78
p0 375.5 ± 0.3042
650
600
550
500
450
400
350
300

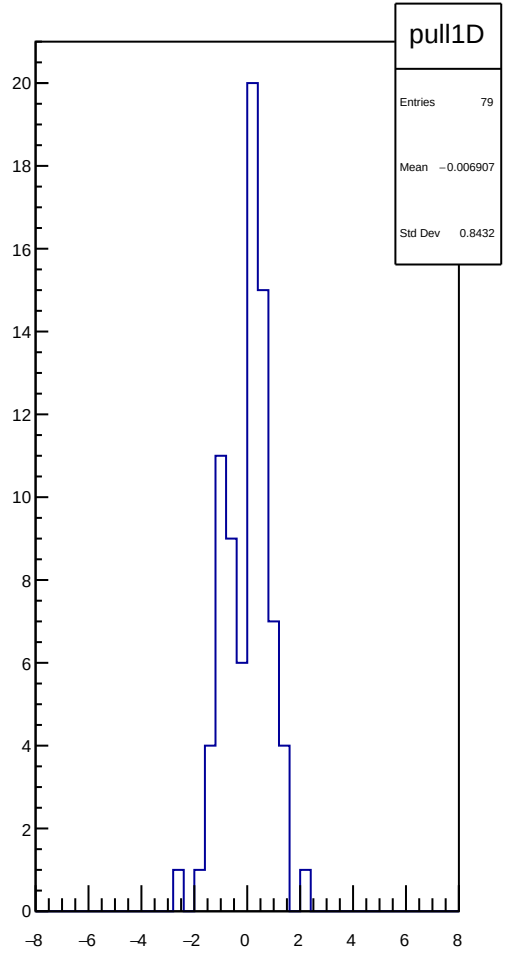

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 67.65 / 78
p0 −8529 ± 5593
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −60.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

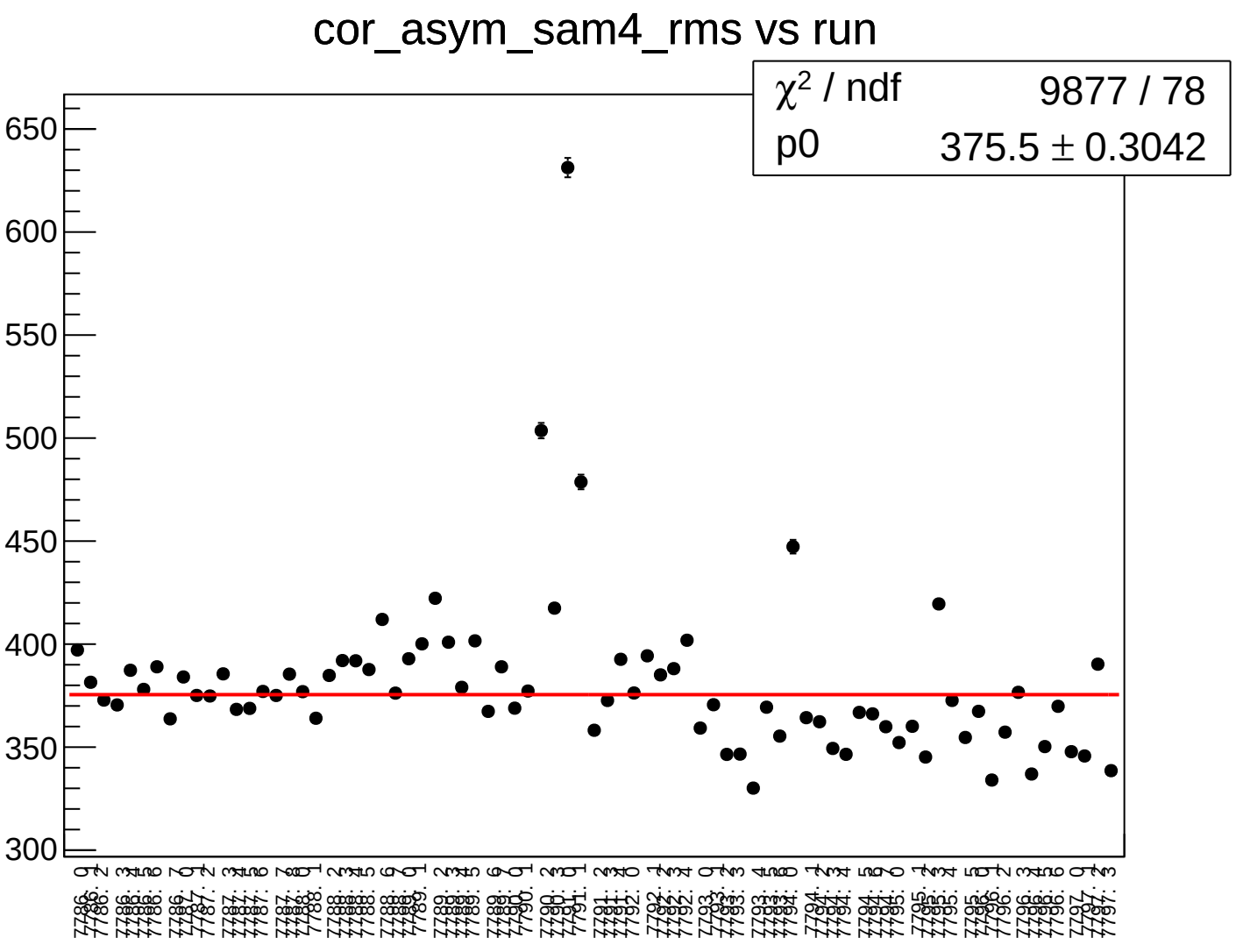

pull1D
Entries 79
Mean 0.00745
Std Dev 0.9253
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

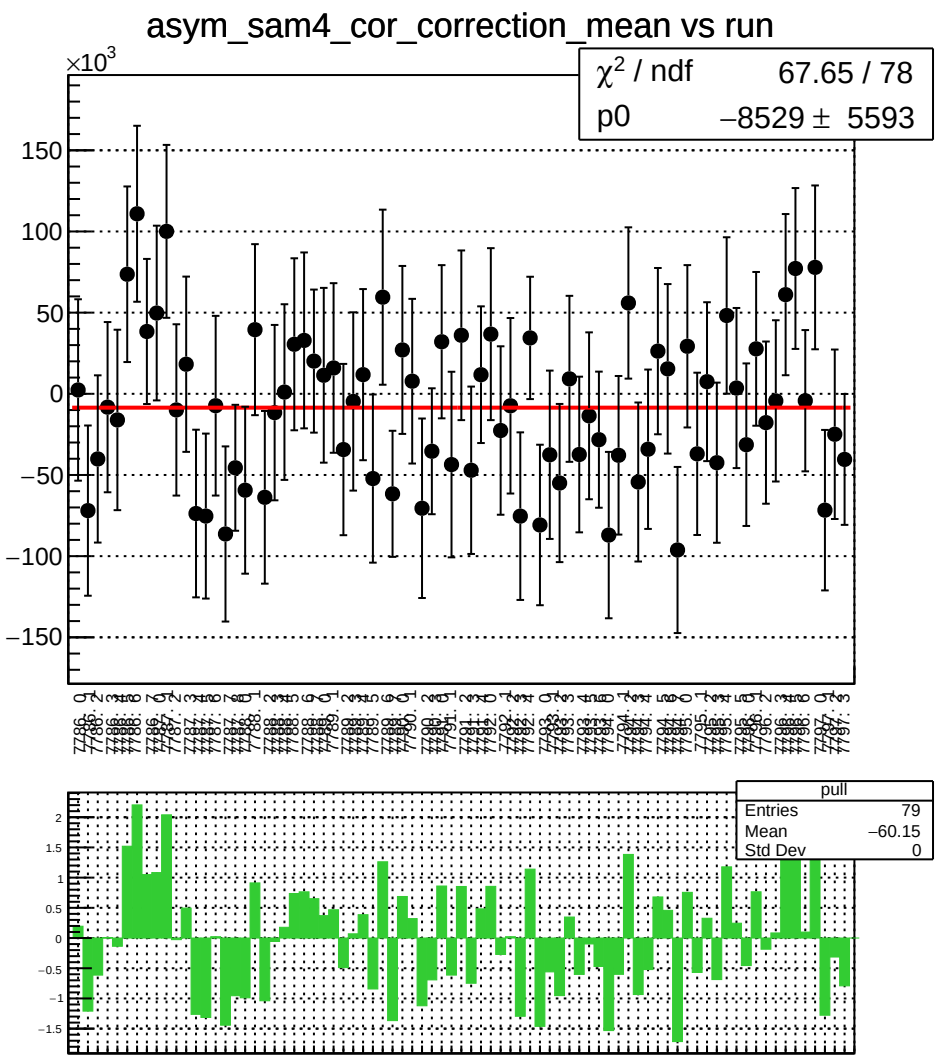
asym_sam4_reg_correction_rms vs run

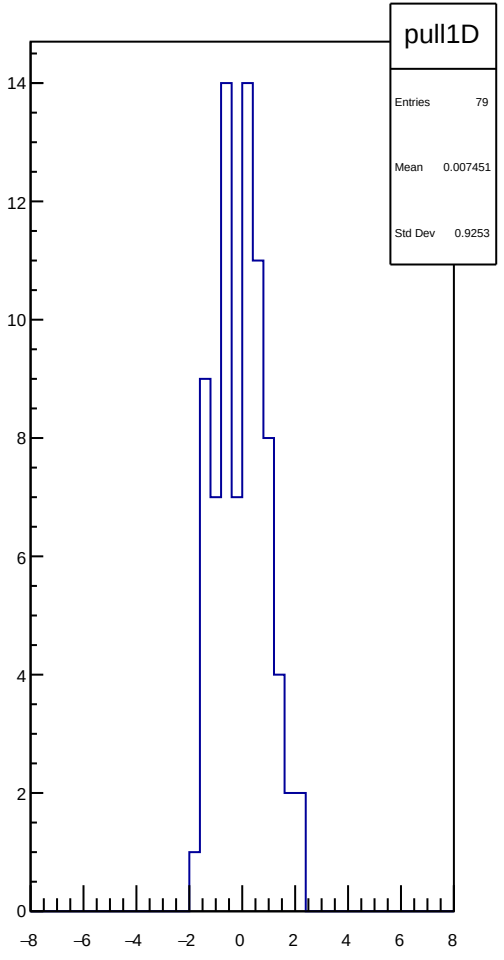


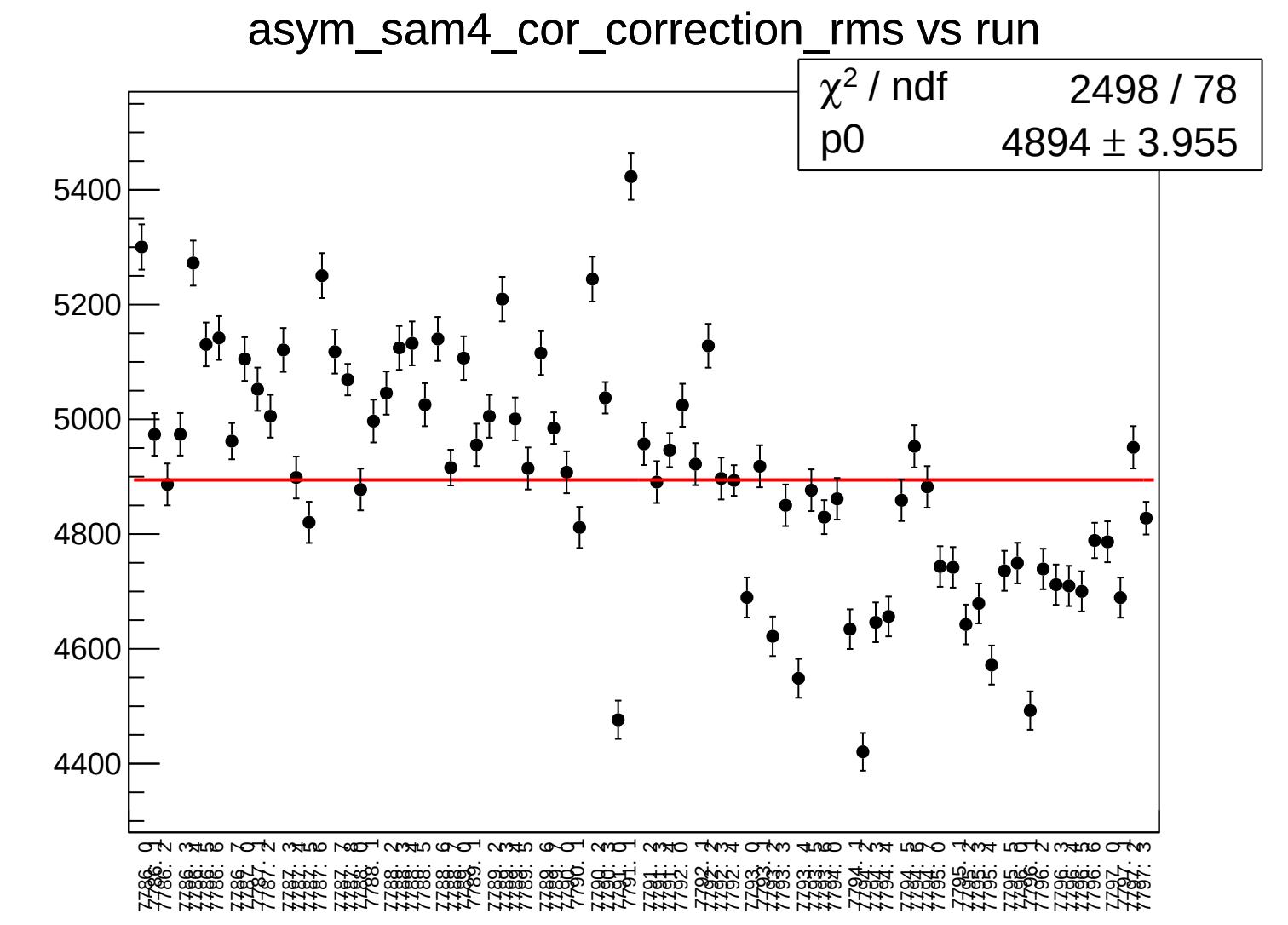

cor_asym_sam4_mean vs run
χ² / ndf 56.17 / 78
p0 −314.1 ± 430.1
pull
Entries 79
Mean 71.31
Std Dev 0

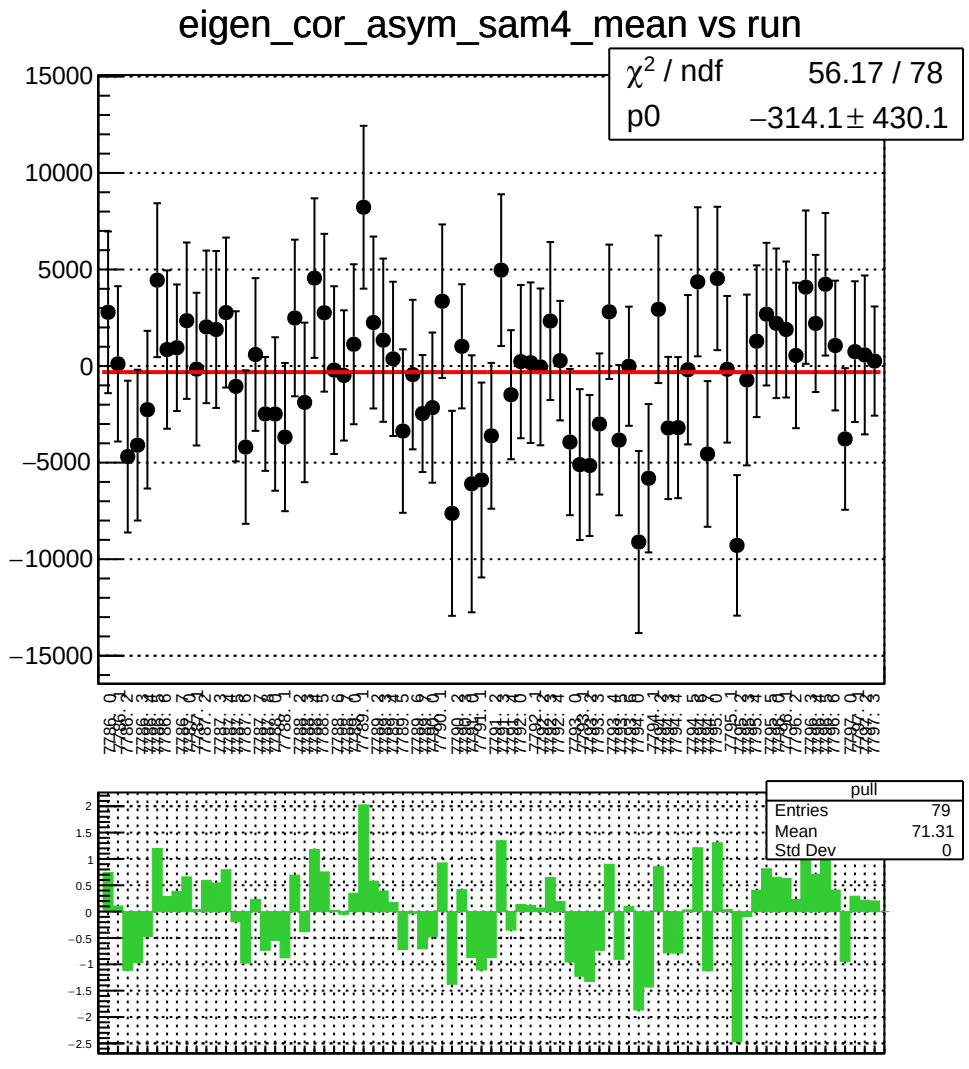

pull1D
Entries 79
Mean −0.006907
Std Dev 0.8432

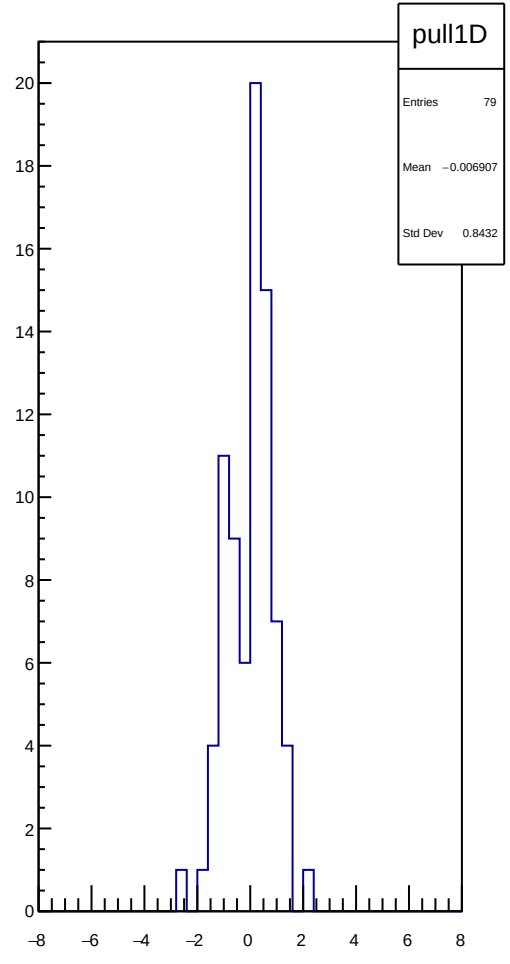

cor_asym_sam4_rms vs run
χ² / ndf 9877 / 78
p0 375.5 ± 0.3042
650
600
550
500
450
400
350
300

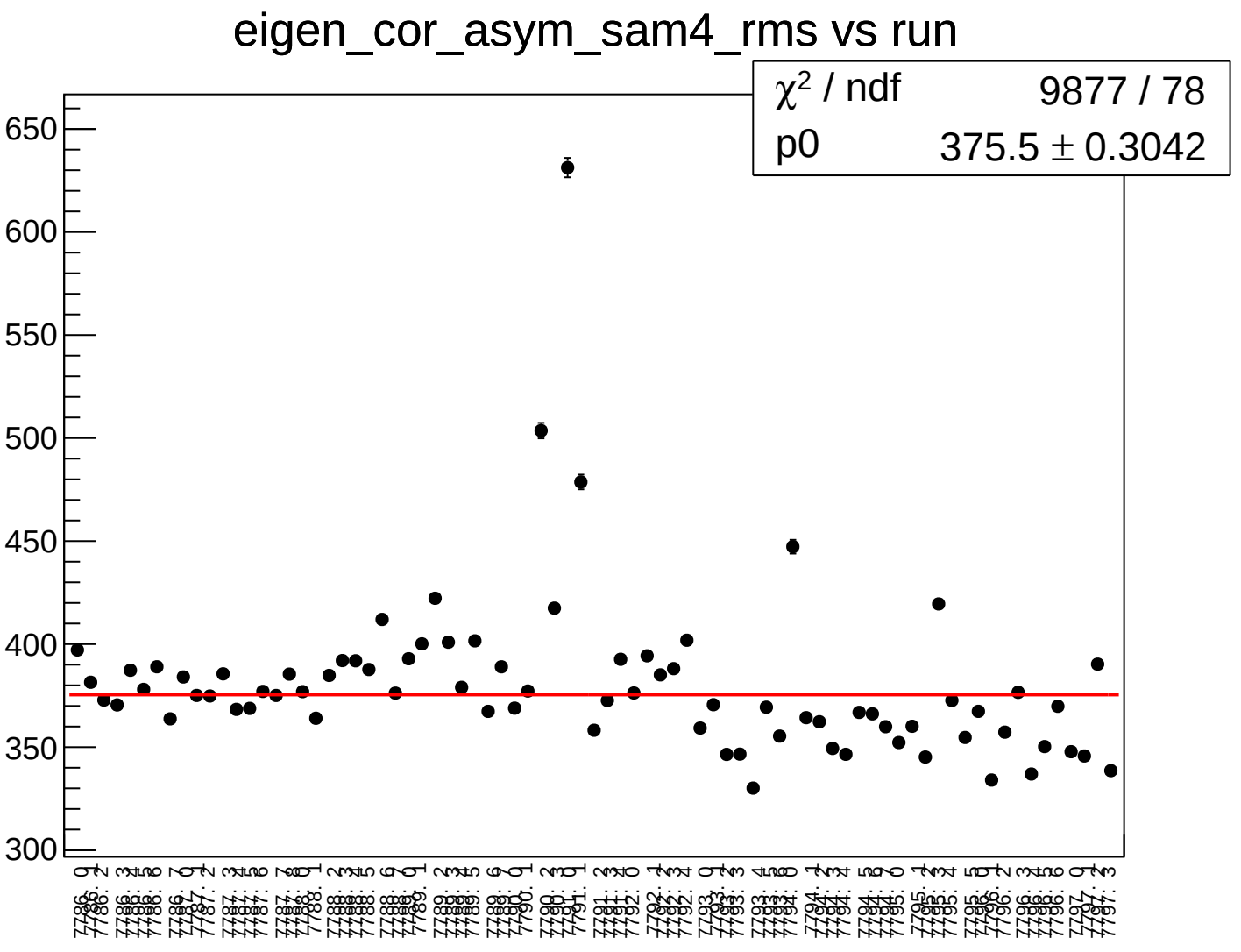

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 67.65 / 78
p0 −8529 ± 5593
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −60.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

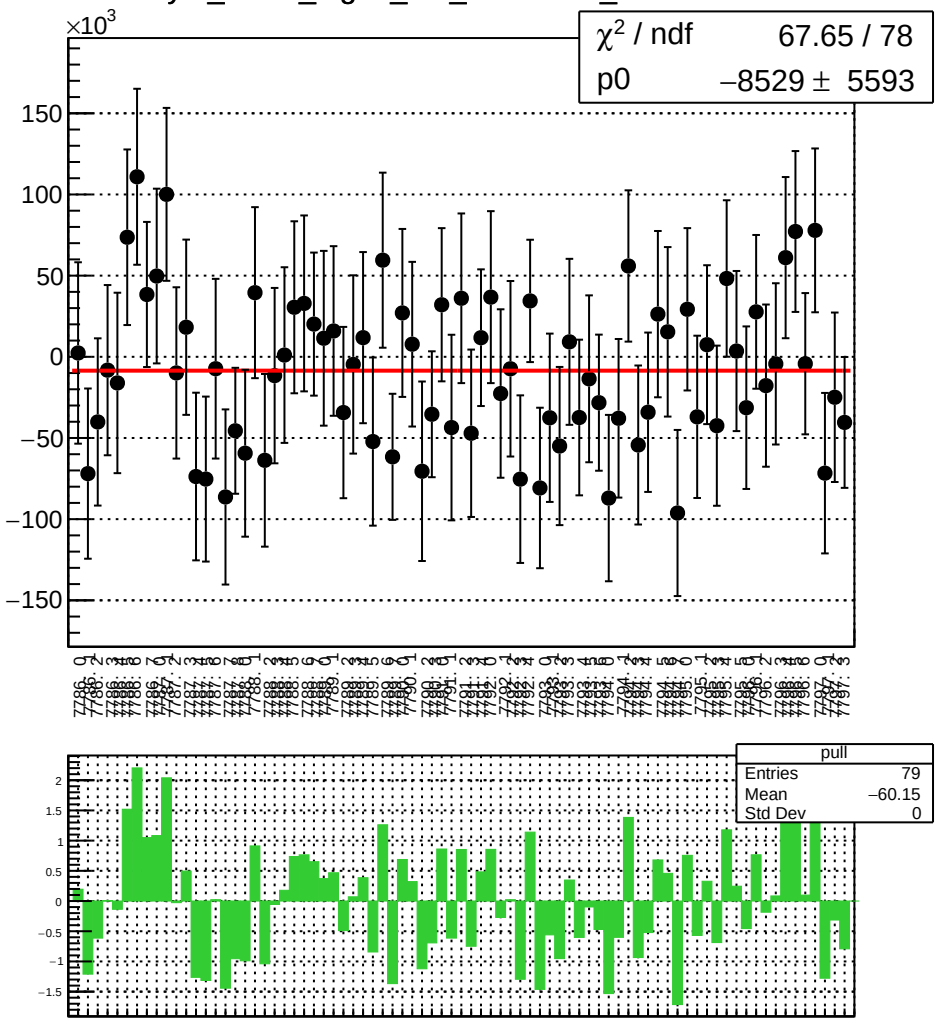

pull1D
Entries 79
Mean 0.007451
Std Dev 0.9253
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

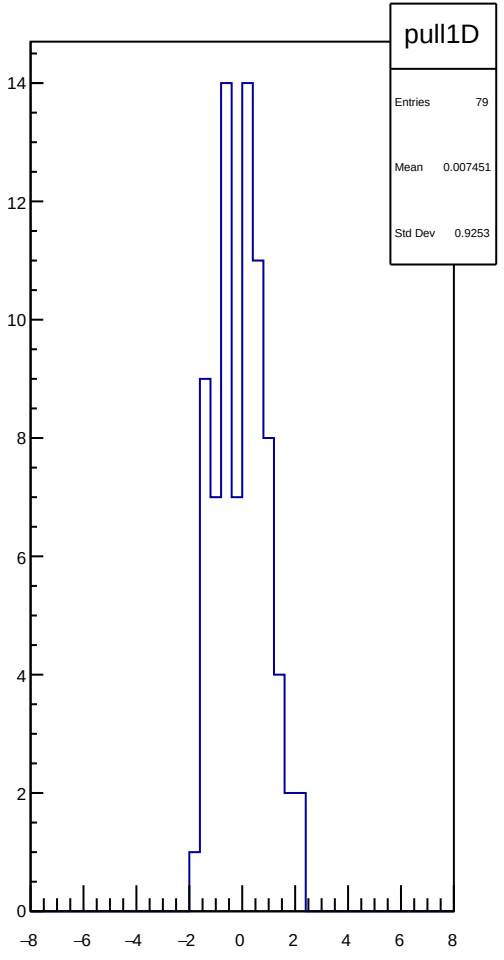

asym_sam4_cor_correction_rms vs run
χ² / ndf 2498 / 78
p0 4894 ± 3.955
5400
5200
5000
4800
4600
4400

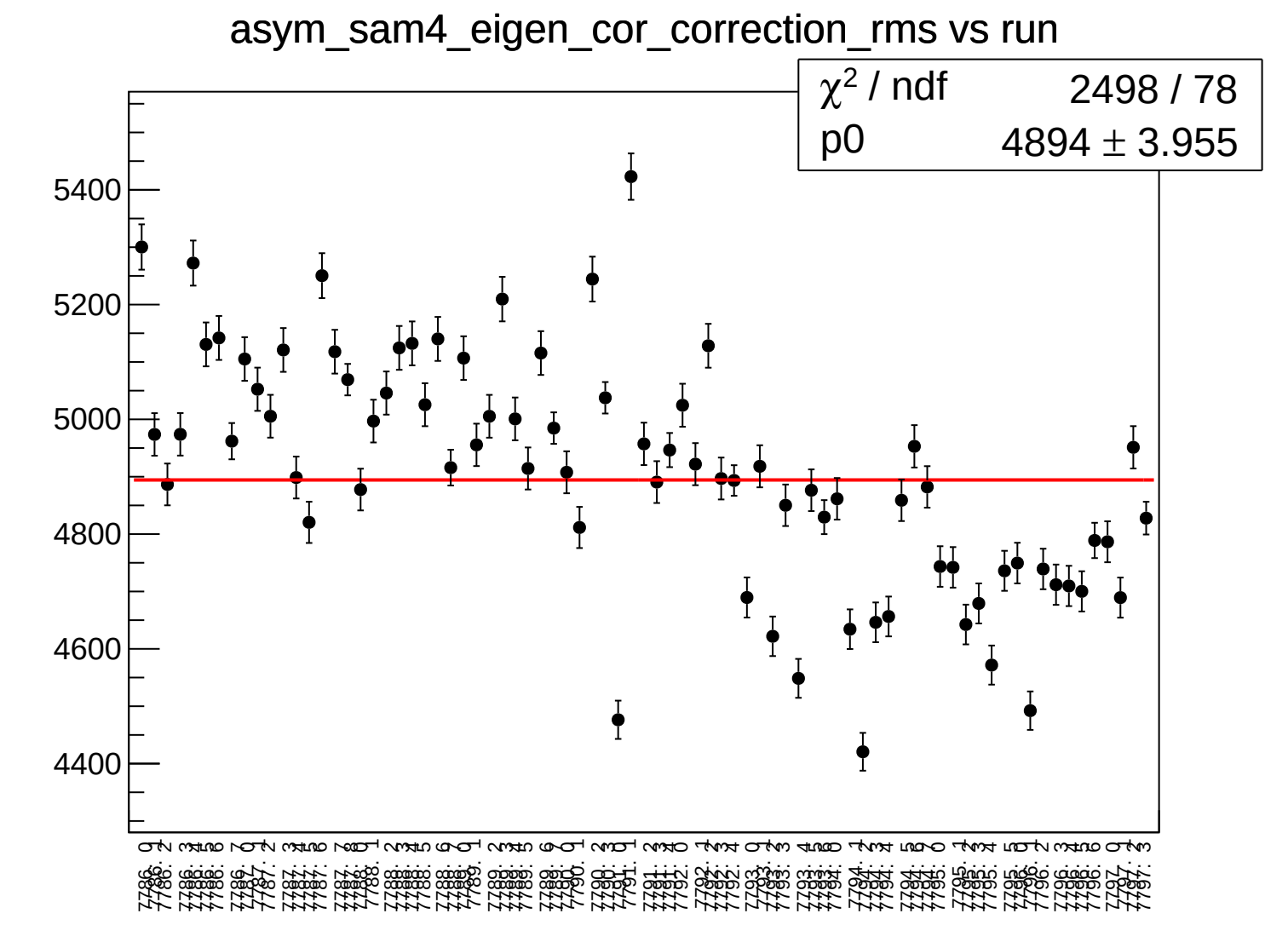

eigen_cor_asym_sam4_mean vs run
χ² / ndf 56.17 / 78
p0 −314.1 ± 430.1
pull
Entries 79
Mean 71.31
Std Dev 0

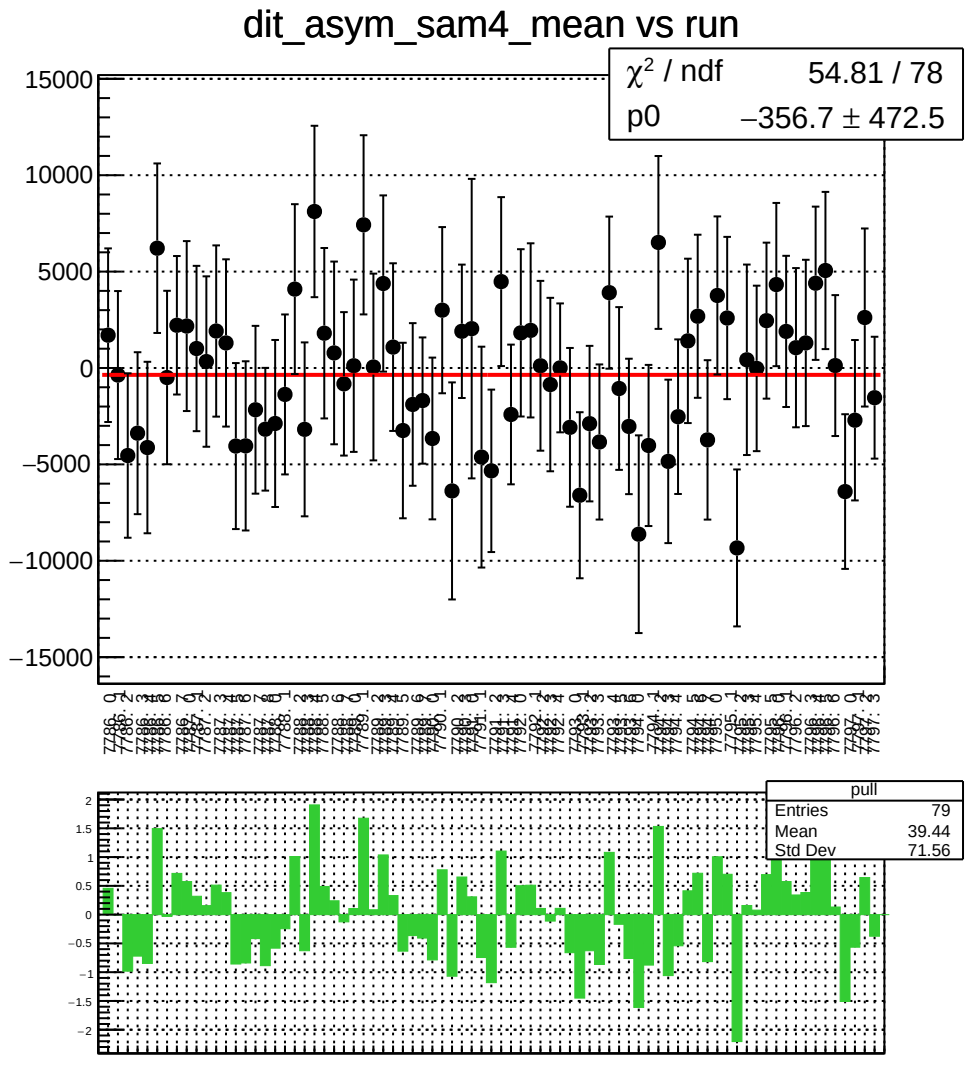

pull1D
Entries 79
Mean −0.006907
Std Dev 0.8432

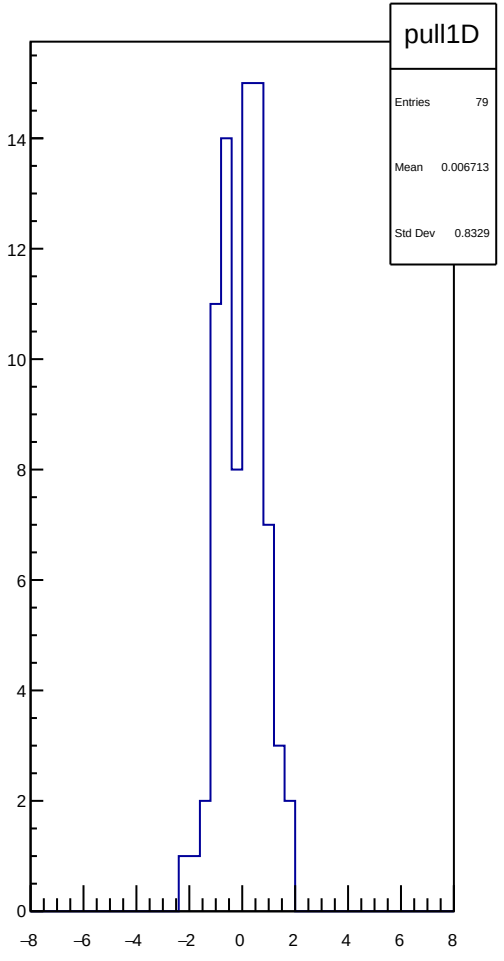

eigen_cor_asym_sam4_rms vs run
χ² / ndf 9877 / 78
p0 375.5 ± 0.3042
650
600
550
500
450
400
350
300

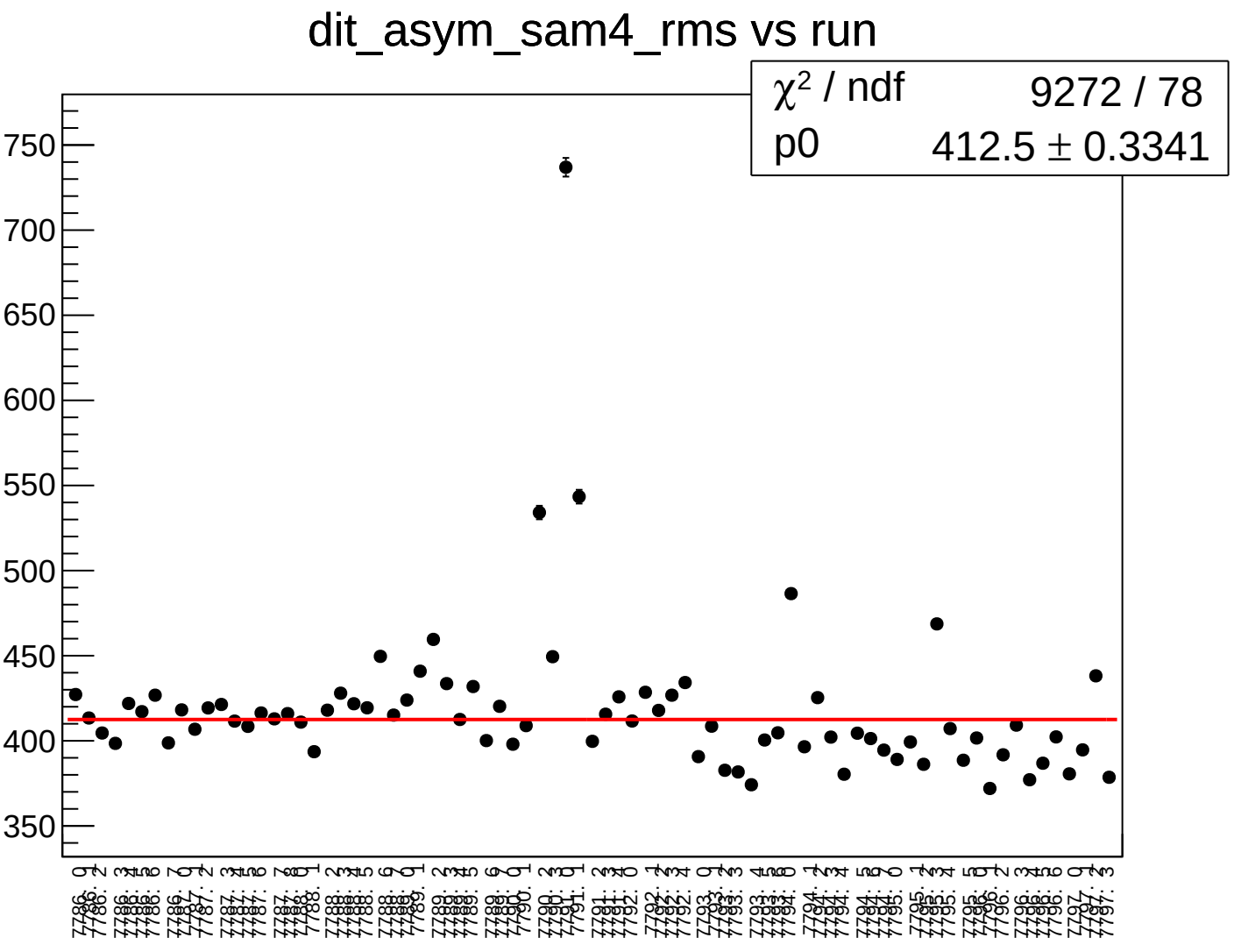

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.65 / 78
p0 −8529 ± 5593
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −60.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

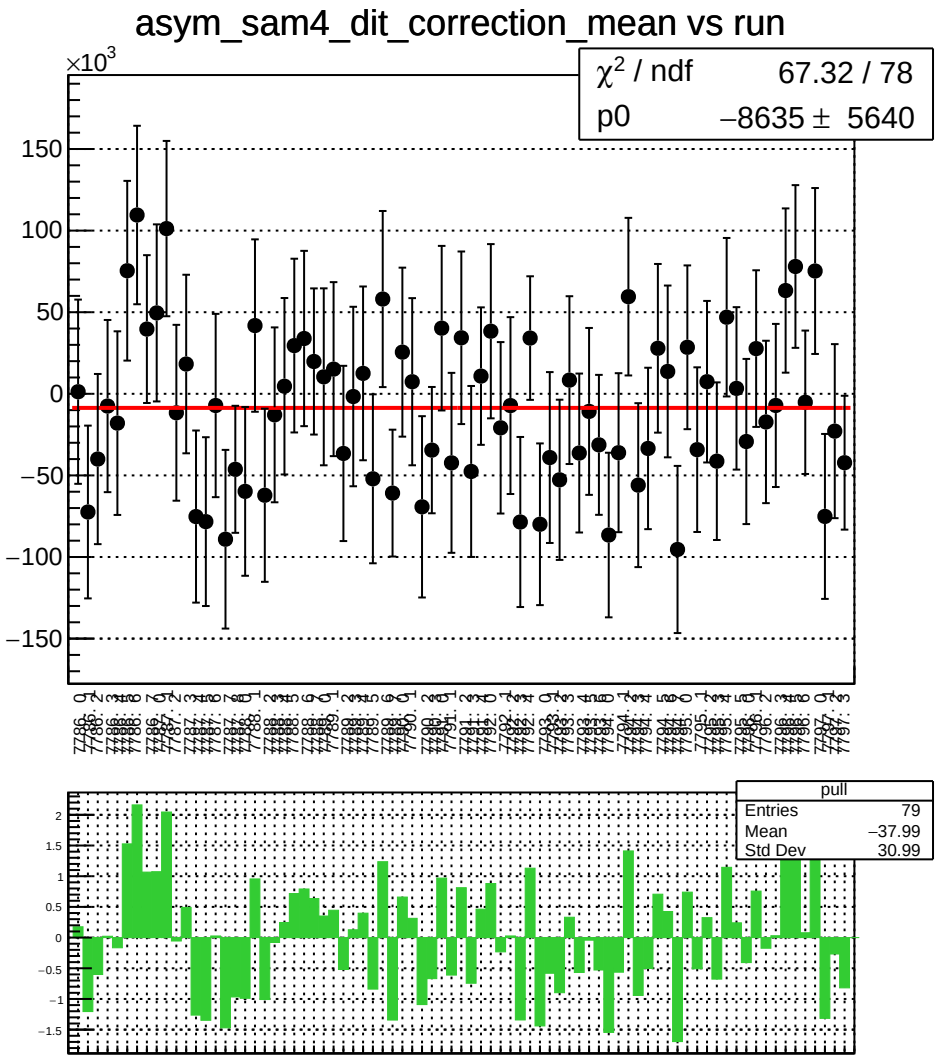

pull1D
Entries 79
Mean 0.007451
Std Dev 0.9253
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

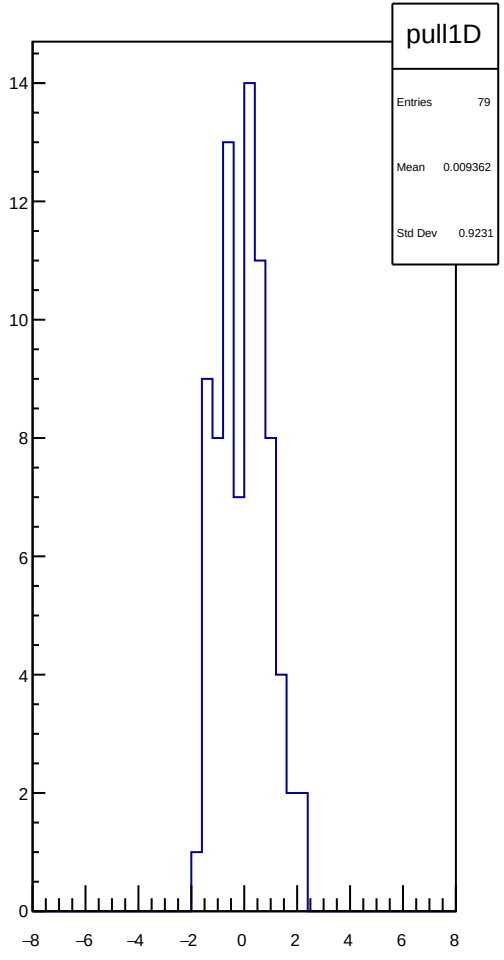

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 2498 / 78
p0 4894 ± 3.955
5400
5200
5000
4800
4600
4400

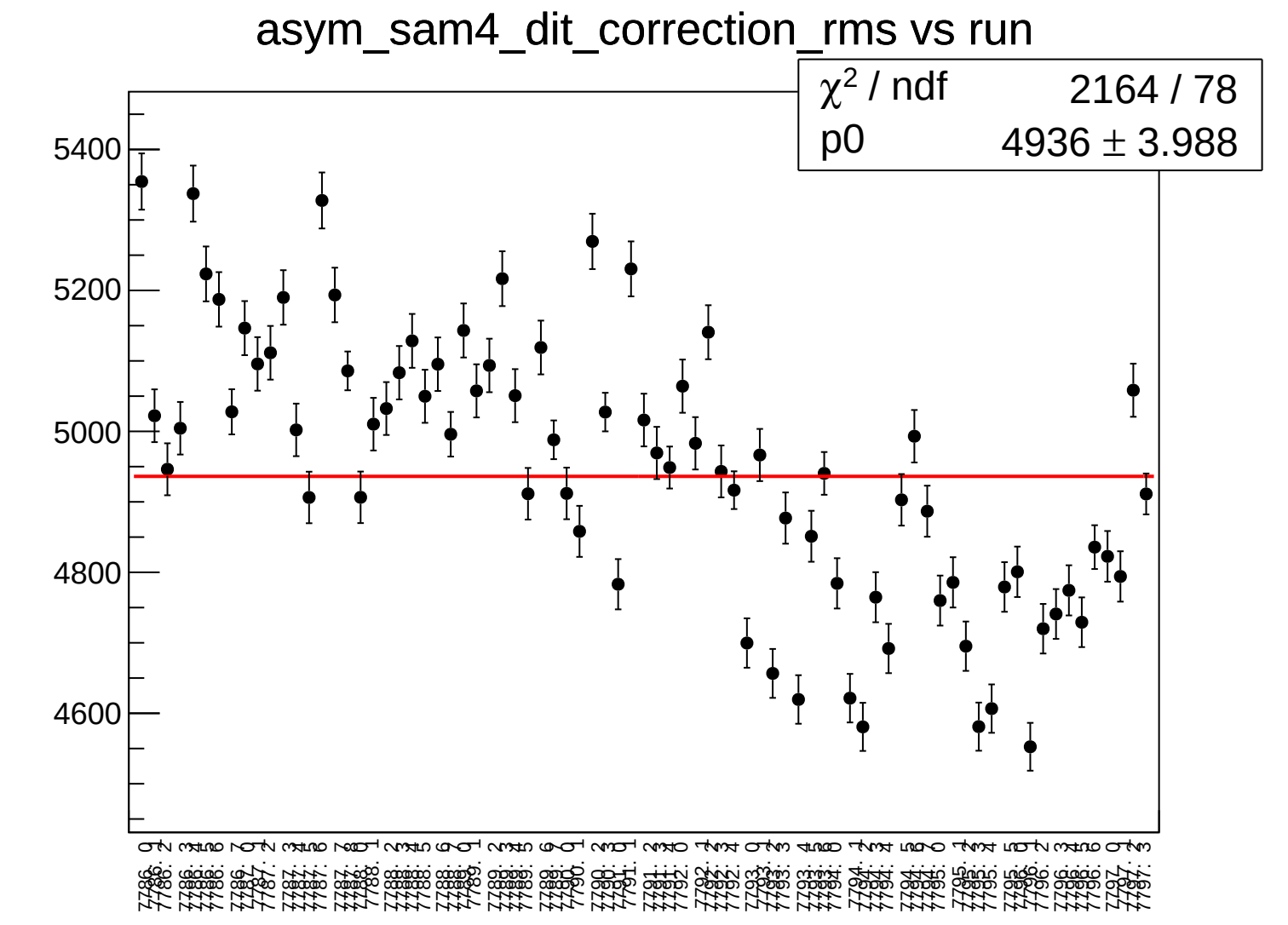

dit_asym_sam4_mean vs run
χ² / ndf 54.81 / 78
p0 −356.7 ± 472.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 39.44
Std Dev 71.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

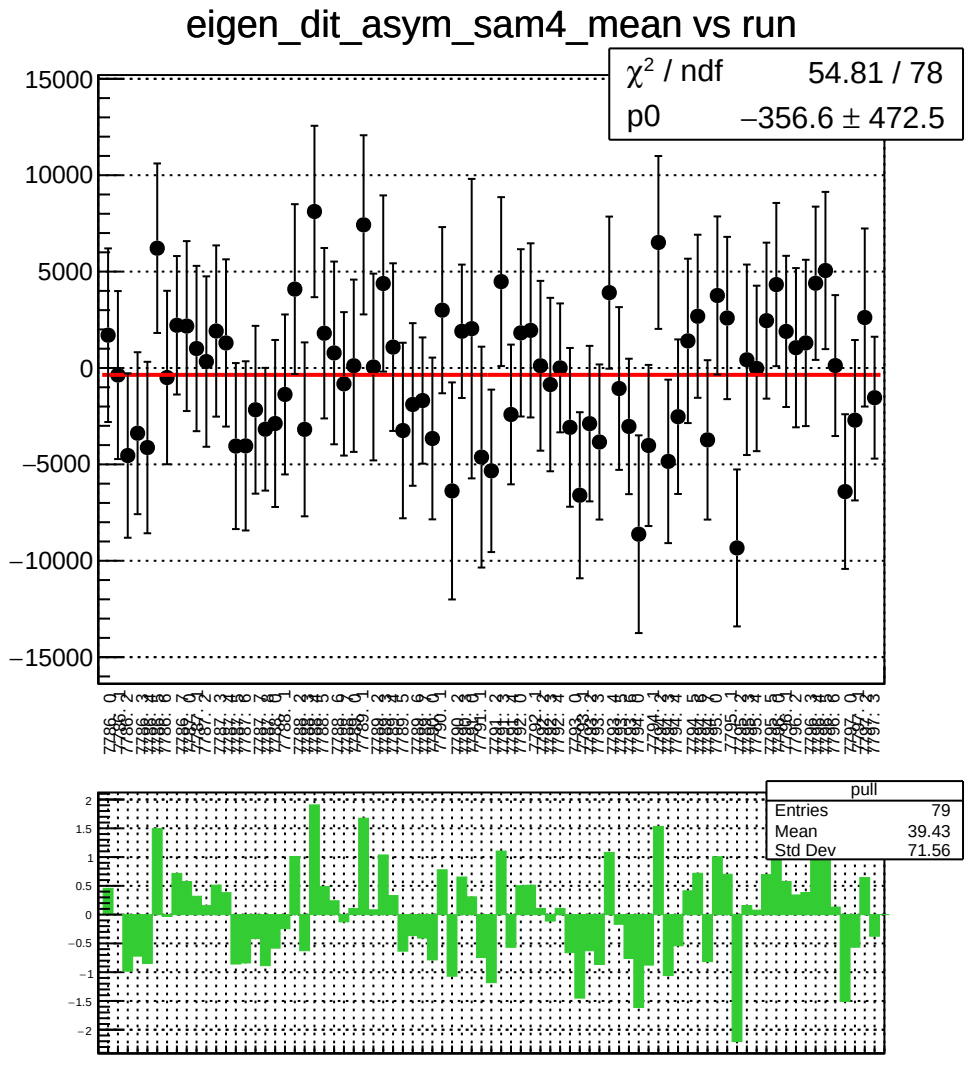

pull1D
Entries 79
Mean 0.006713
Std Dev 0.8329
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

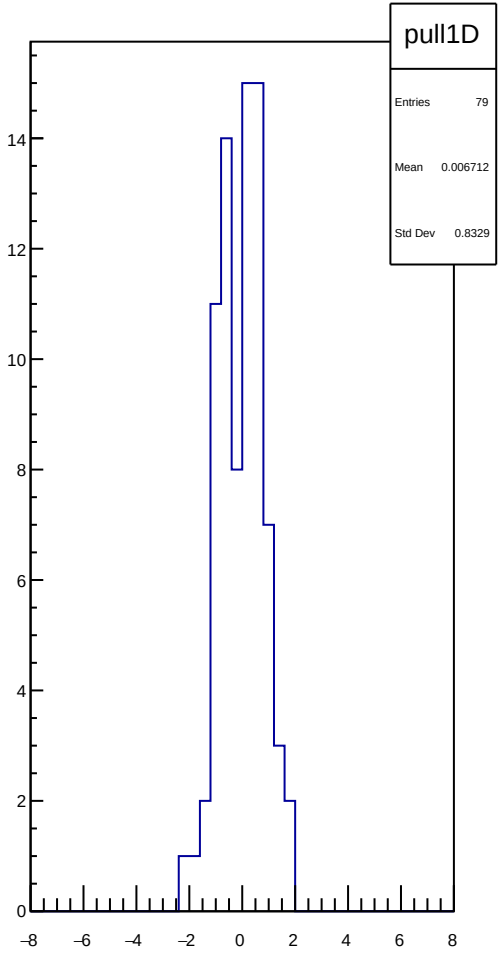

dit_asym_sam4_rms vs run
χ² / ndf 9272 / 78
p0 412.5 ± 0.3341
750
700
650
600
550
500
450
400
350

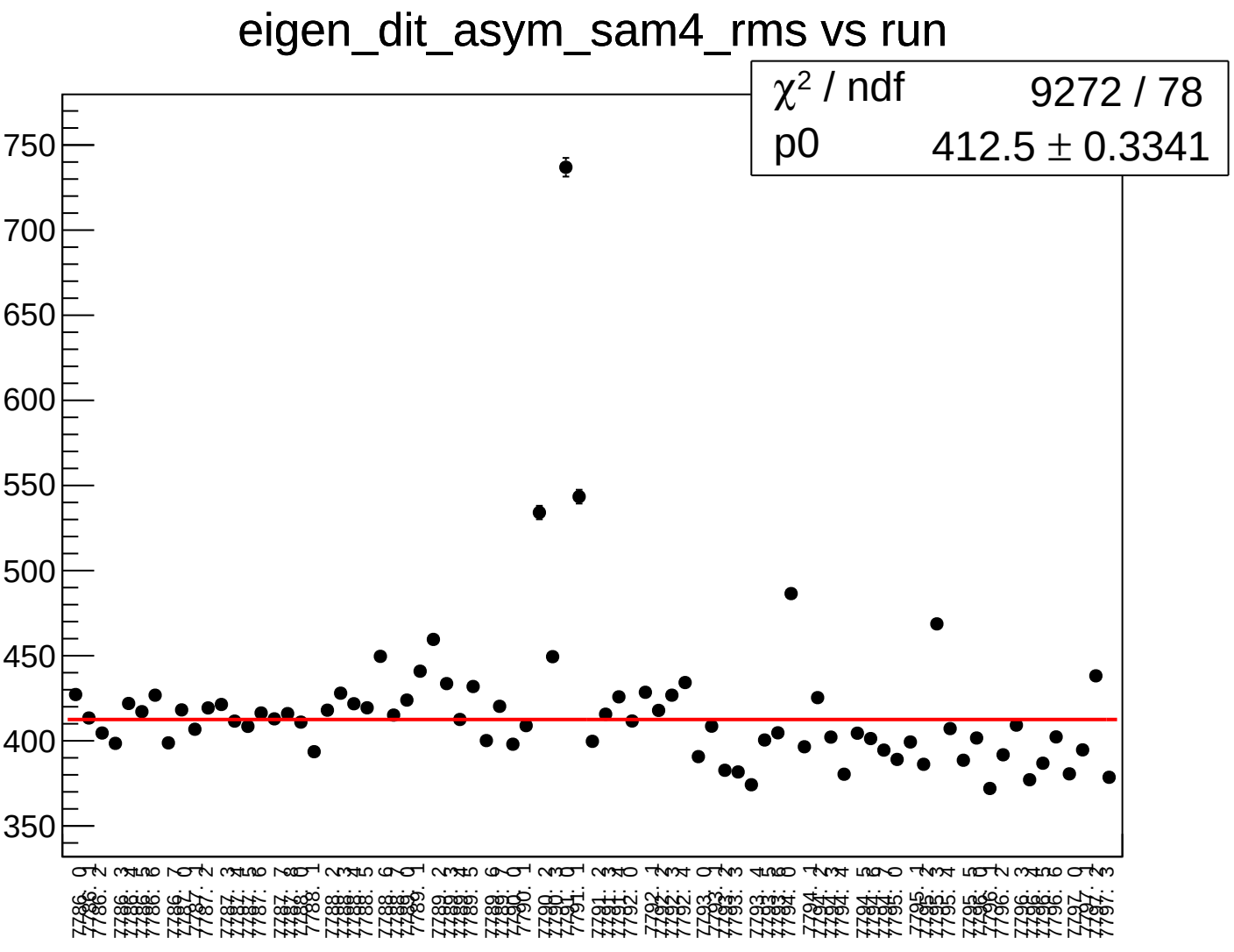

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 67.32 / 78
p0 −8635 ± 5640
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −37.99
Std Dev 30.99
2
1.5
1
0.5
0
−0.5
−1
−1.5

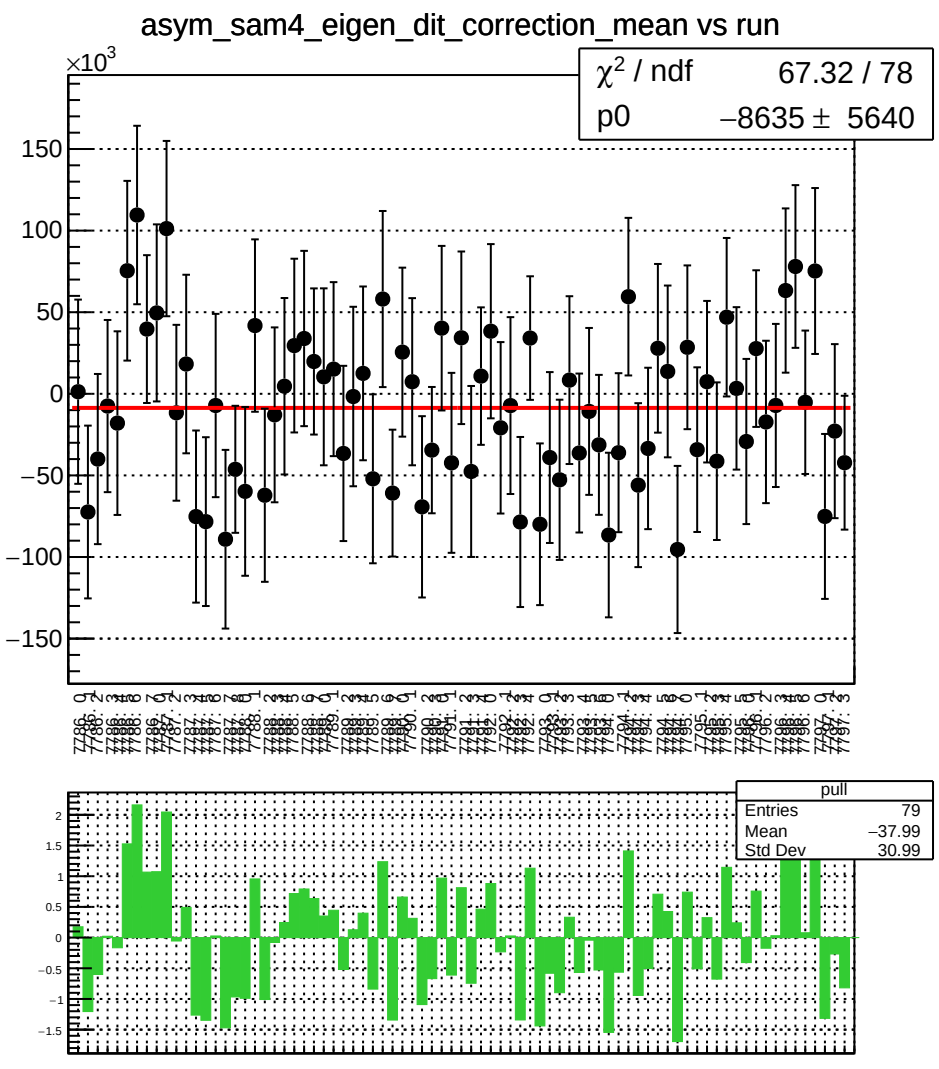

pull1D
Entries 79
Mean 0.009362
Std Dev 0.9231
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

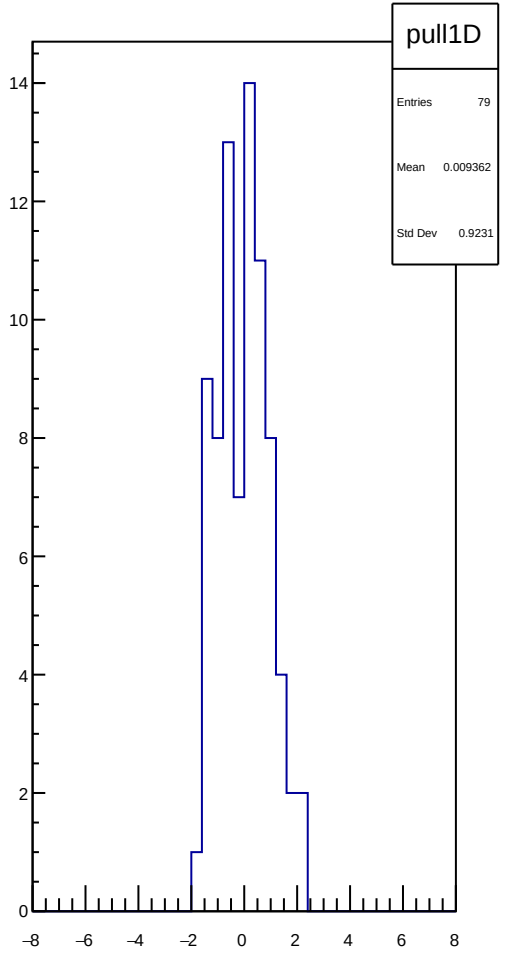

asym_sam4_dit_correction_rms vs run
χ² / ndf 2164 / 78
p0 4936 ± 3.988
5400
5200
5000
4800
4600

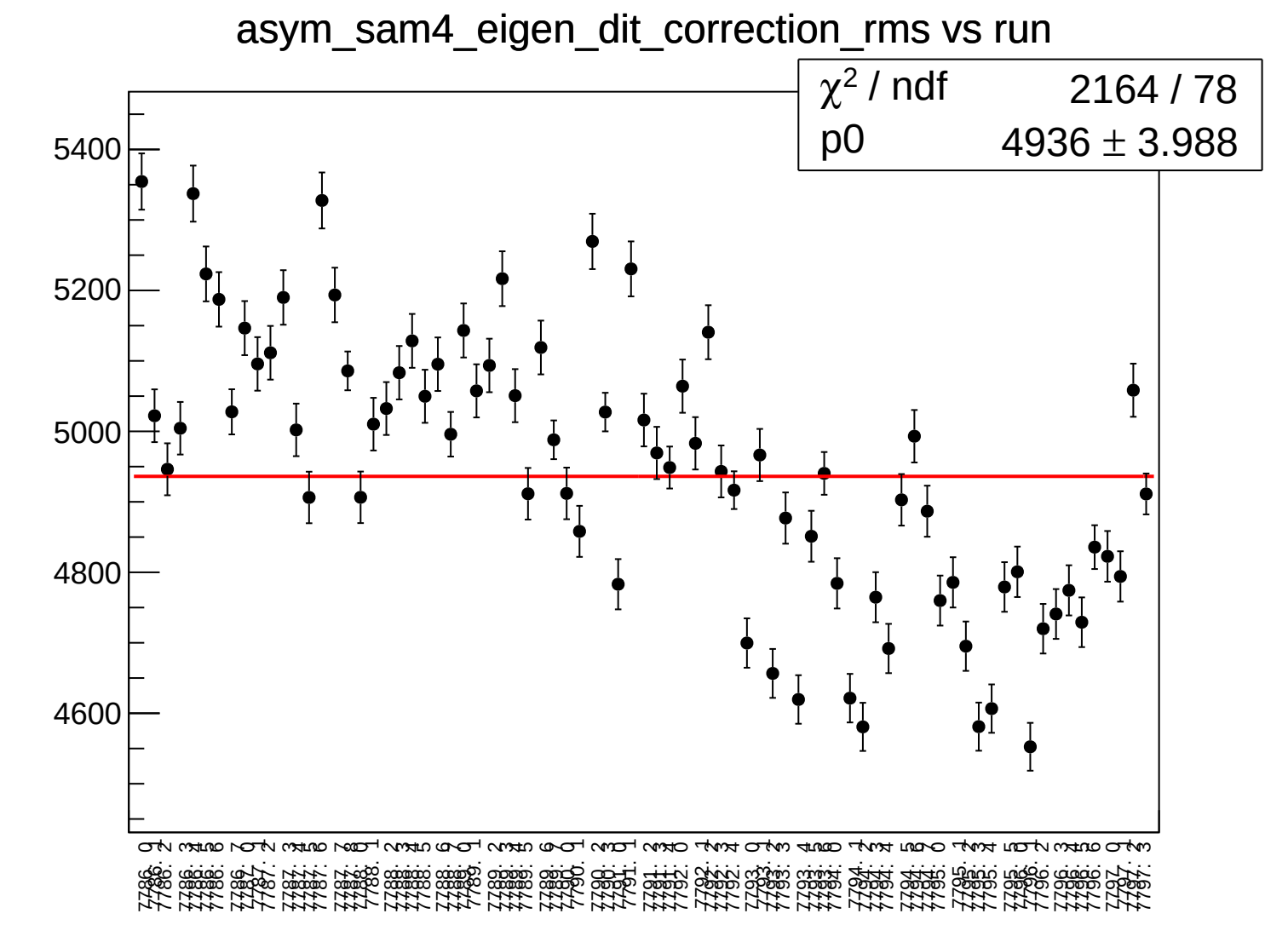

eigen_dit_asym_sam4_mean vs run
χ² / ndf 54.81 / 78
p0 −356.6 ± 472.5
pull
Entries 79
Mean 39.43
Std Dev 71.56

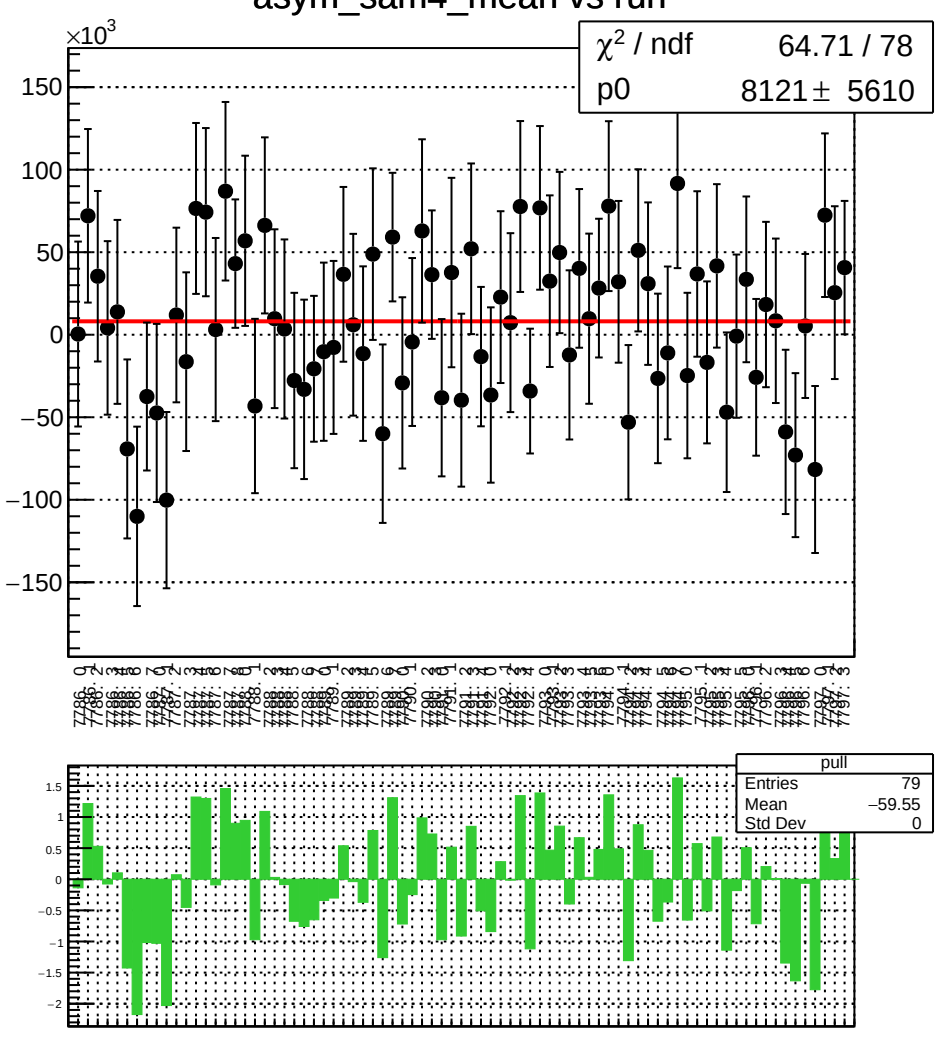

pull1D
Entries 79
Mean 0.006712
Std Dev 0.8329

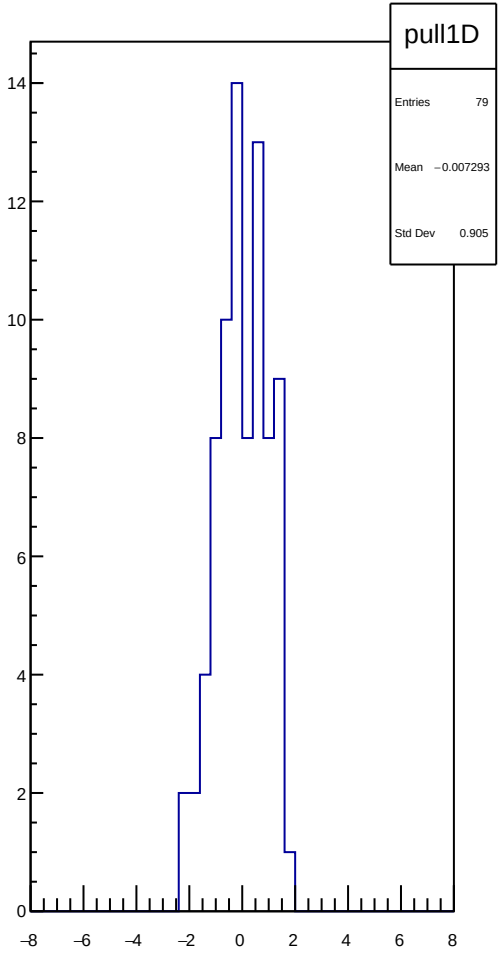

eigen_dit_asym_sam4_rms vs run
χ² / ndf 9272 / 78
p0 412.5 ± 0.3341
750
700
650
600
550
500
450
400
350

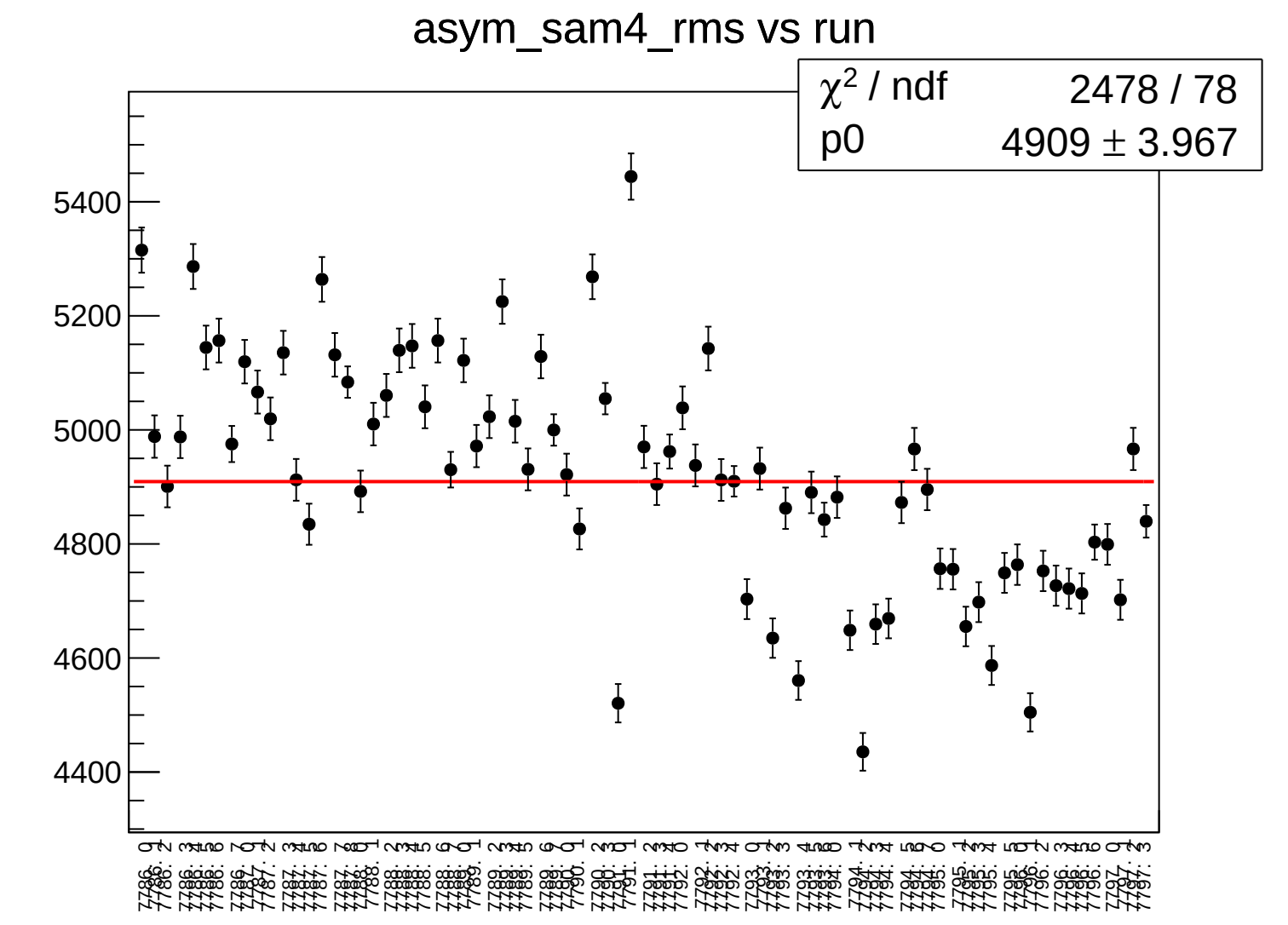

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.32 / 78
p0 −8635 ± 5640
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −37.99
Std Dev 30.99
2
1.5
1
0.5
0
−0.5
−1
−1.5

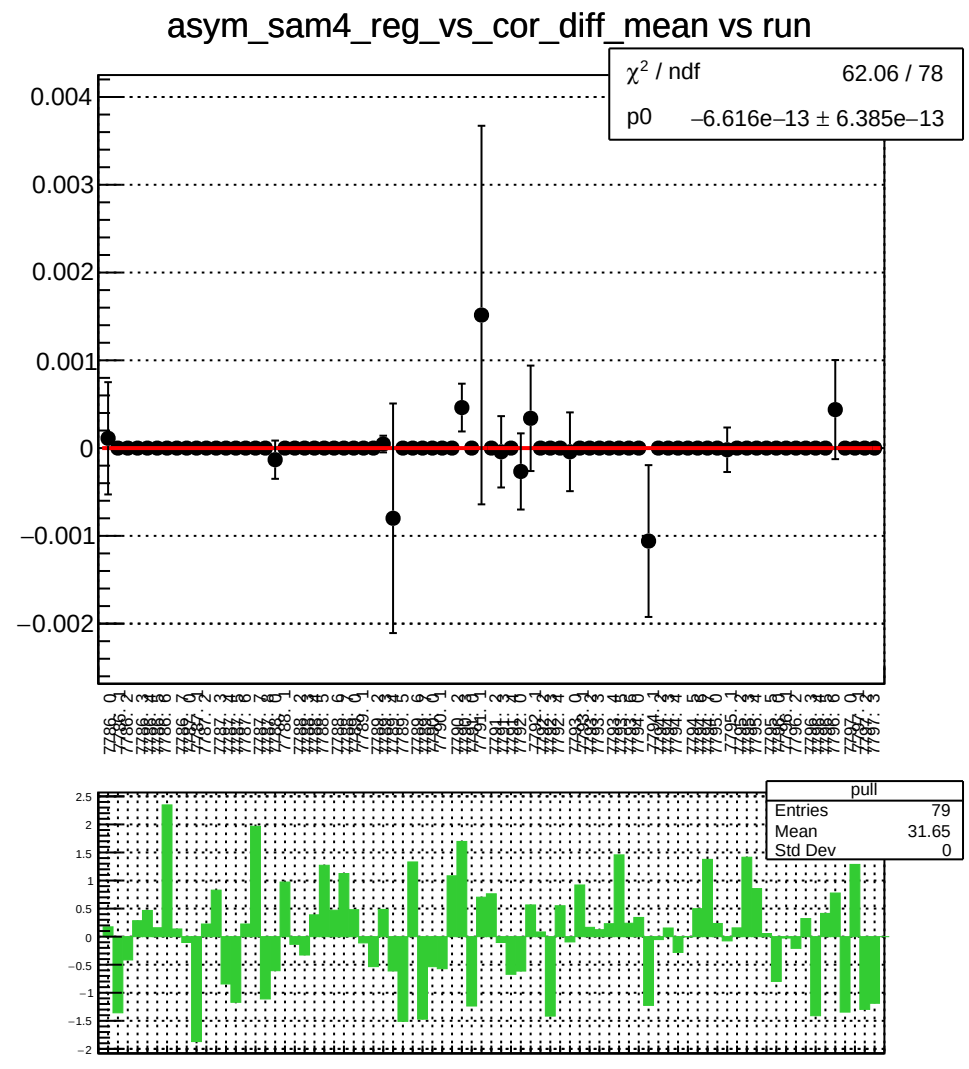

pull1D
Entries 79
Mean 0.009362
Std Dev 0.9231
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

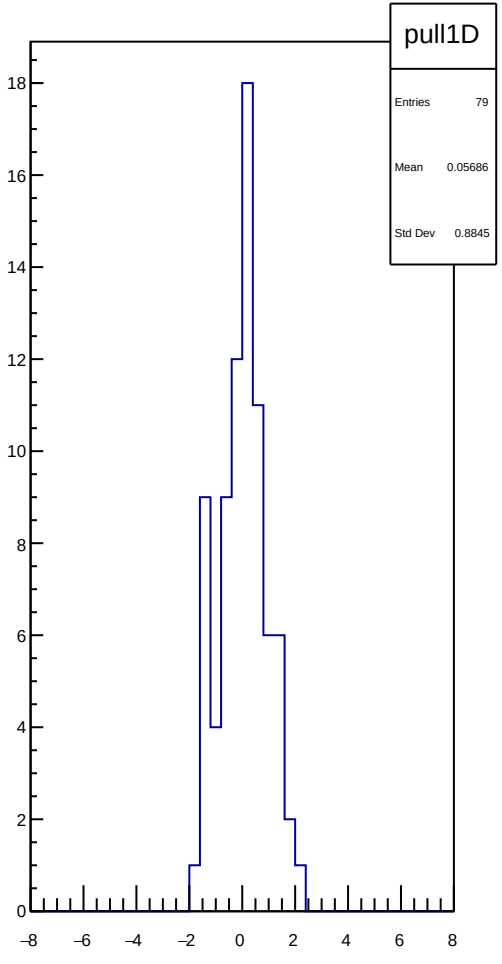

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2164 / 78
p0 4936 ± 3.988
5400
5200
5000
4800
4600

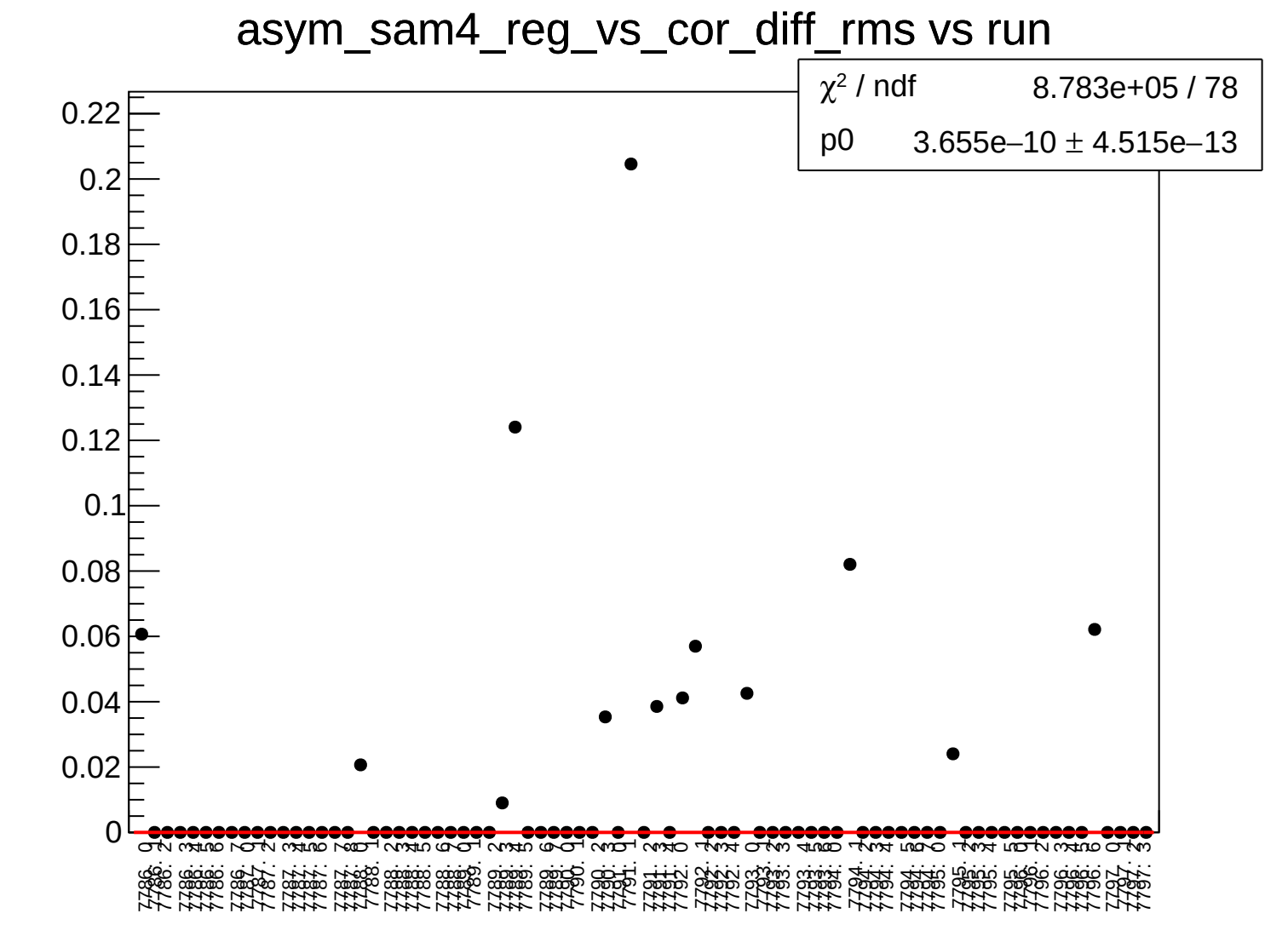

asym_sam4_mean vs run
×10^3
χ² / ndf 64.71 / 78
p0 8121 ± 5610
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −59.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

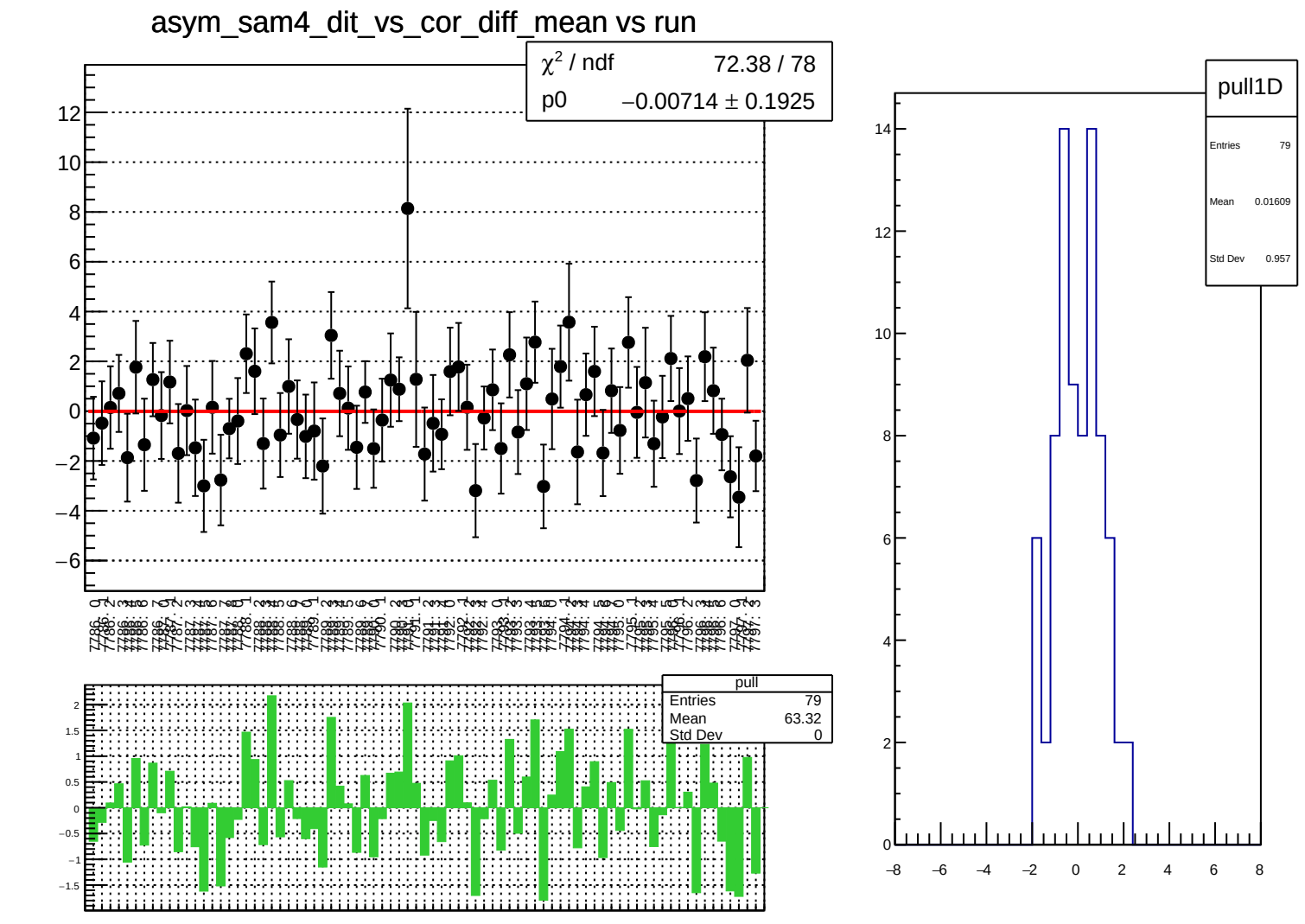

pull1D
Entries 79
Mean −0.007293
Std Dev 0.905
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

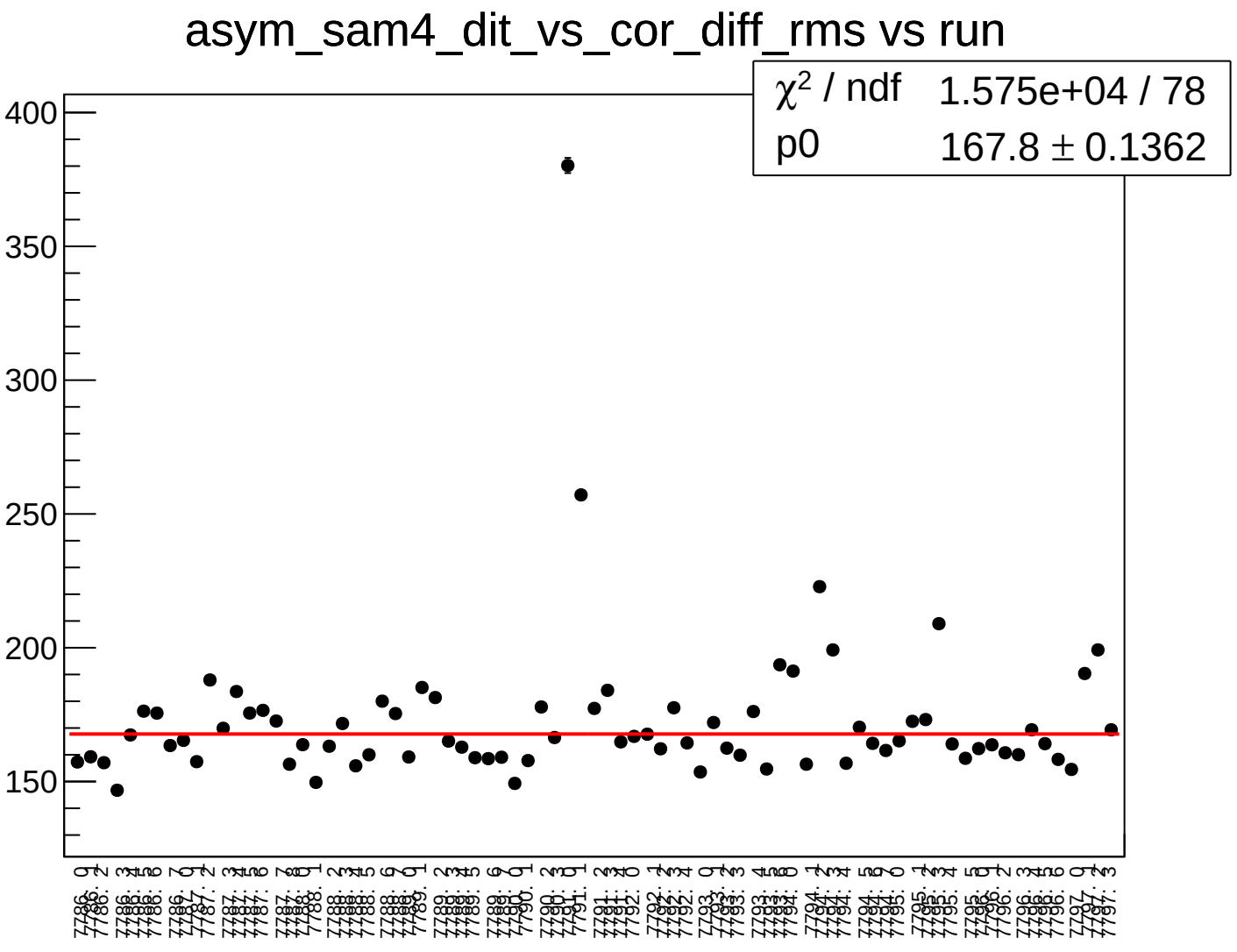

asym_sam4_rms vs run
χ² / ndf 2478 / 78
p0 4909 ± 3.967
5400
5200
5000
4800
4600
4400

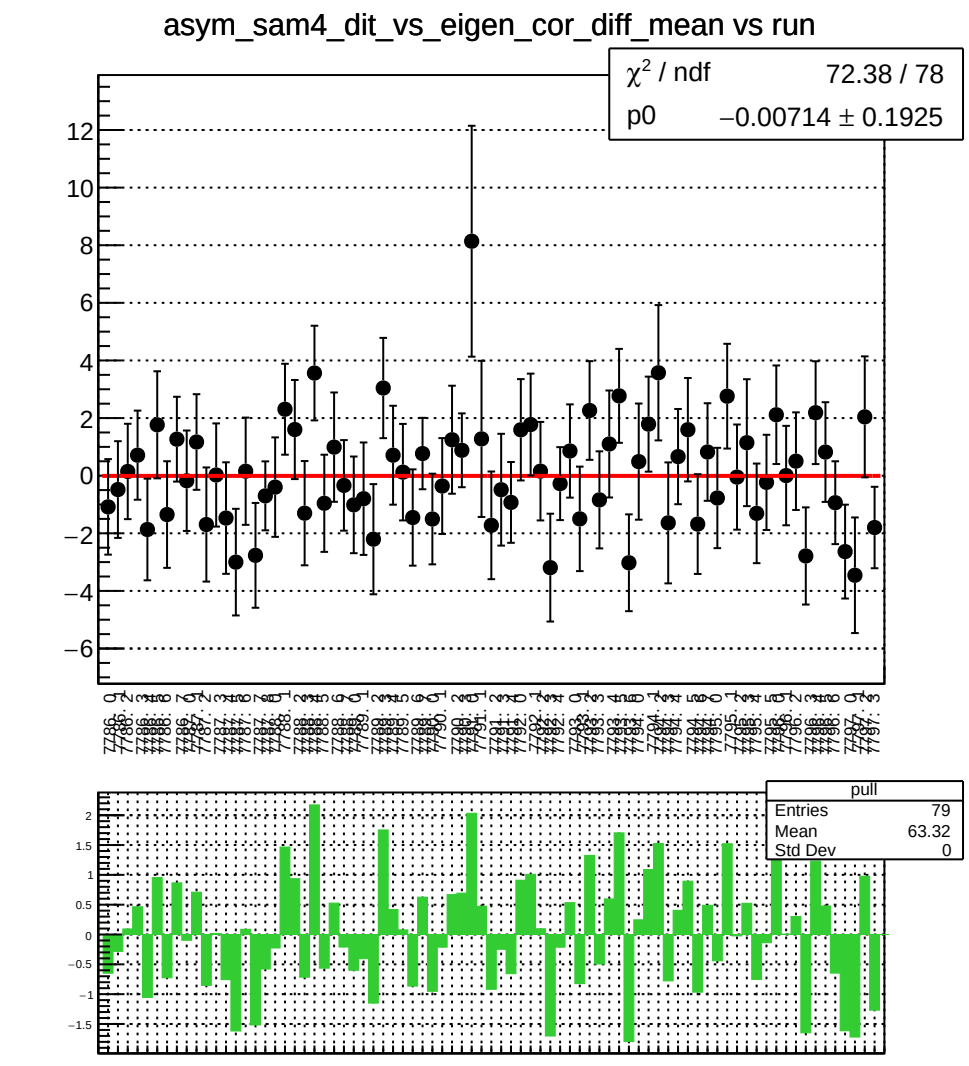

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 62.06 / 78
p0 −6.616e−13 ± 6.385e−13
pull
Entries 79
Mean 31.65
Std Dev 0

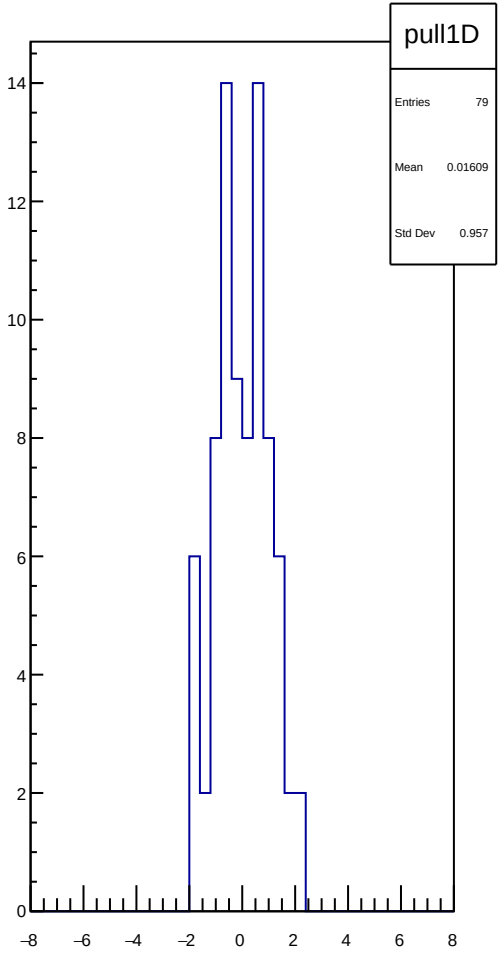

pull1D
Entries 79
Mean 0.05686
Std Dev 0.8845

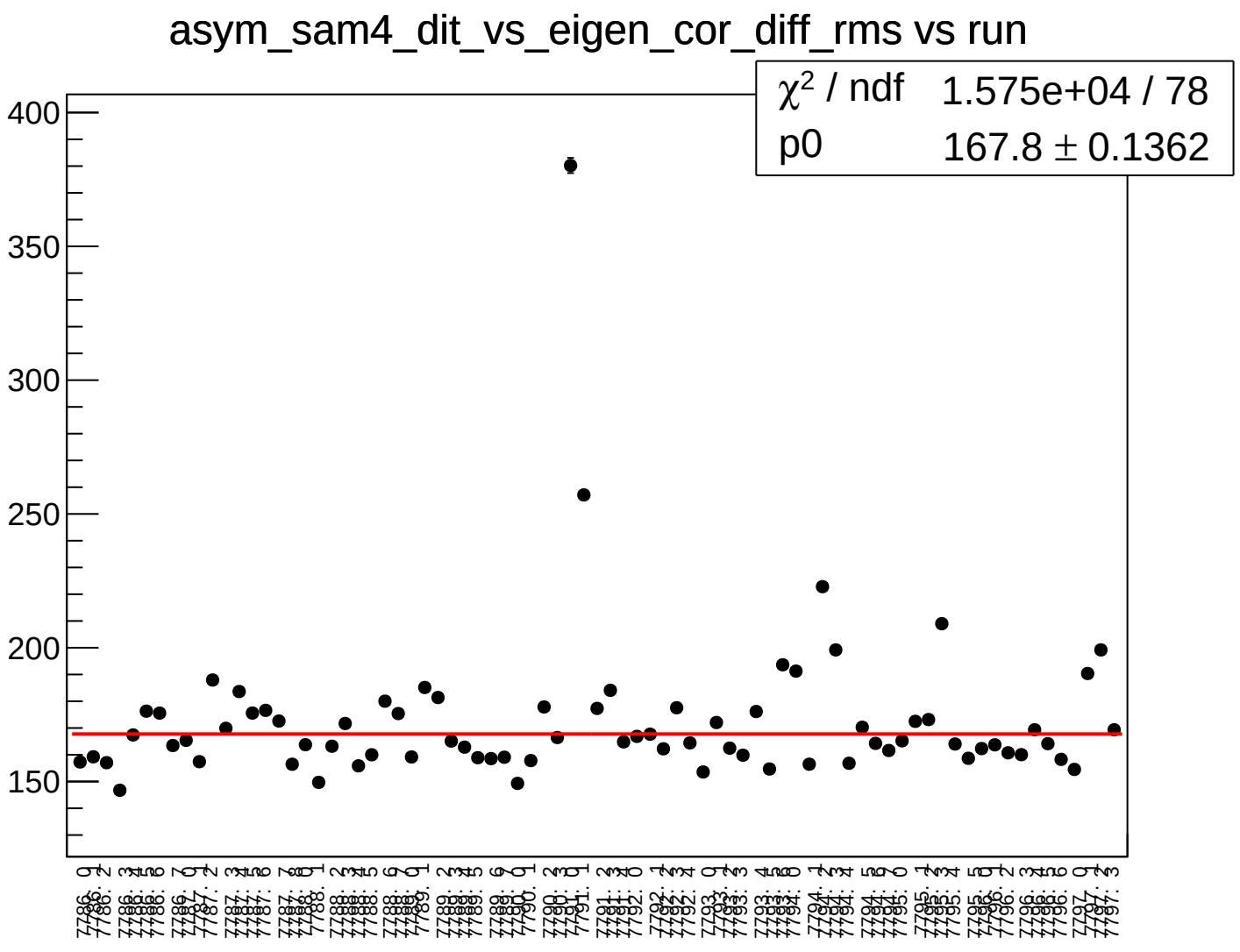

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 8.783e+05 / 78
p0 3.655e−10 ± 4.515e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

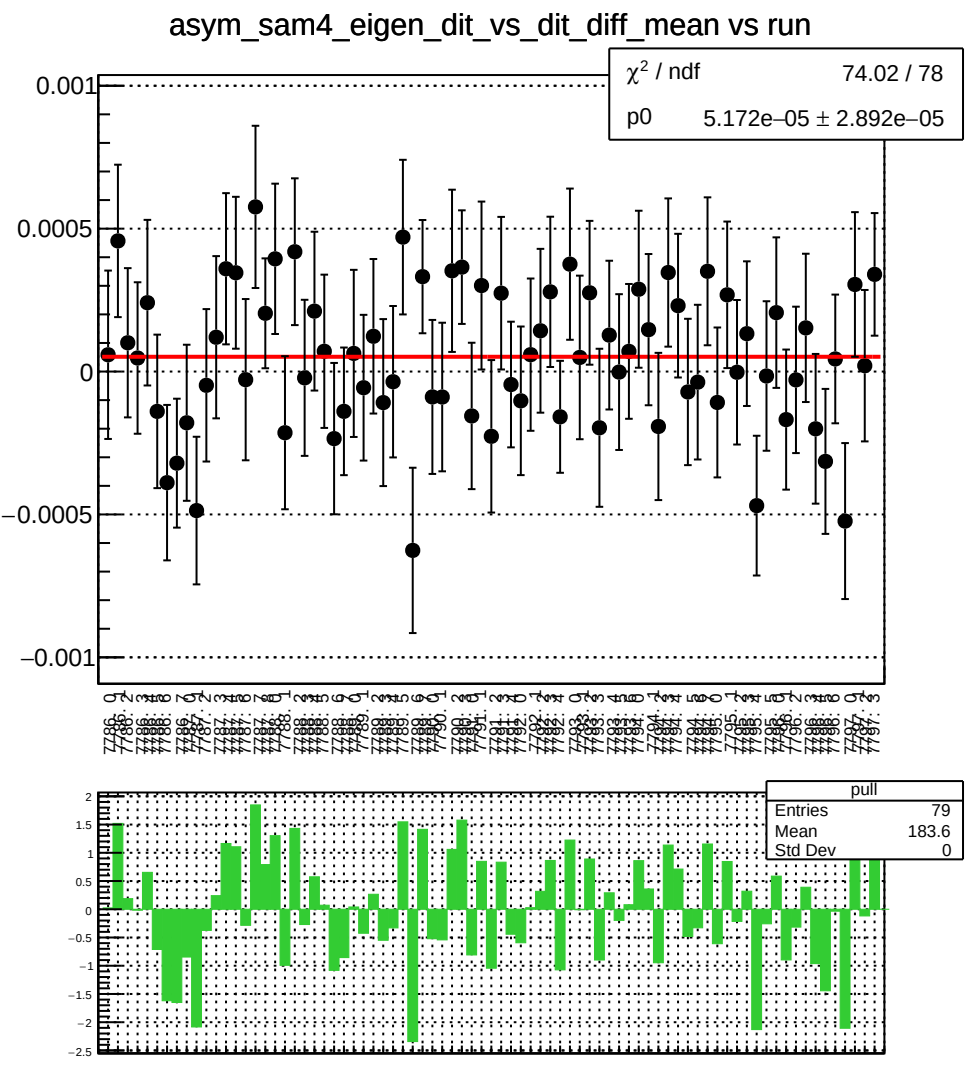

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 72.38 / 78
p0 −0.00714 ± 0.1925
pull
Entries 79
Mean 63.32
Std Dev 0
pull1D
Entries 79
Mean 0.01609
Std Dev 0.957

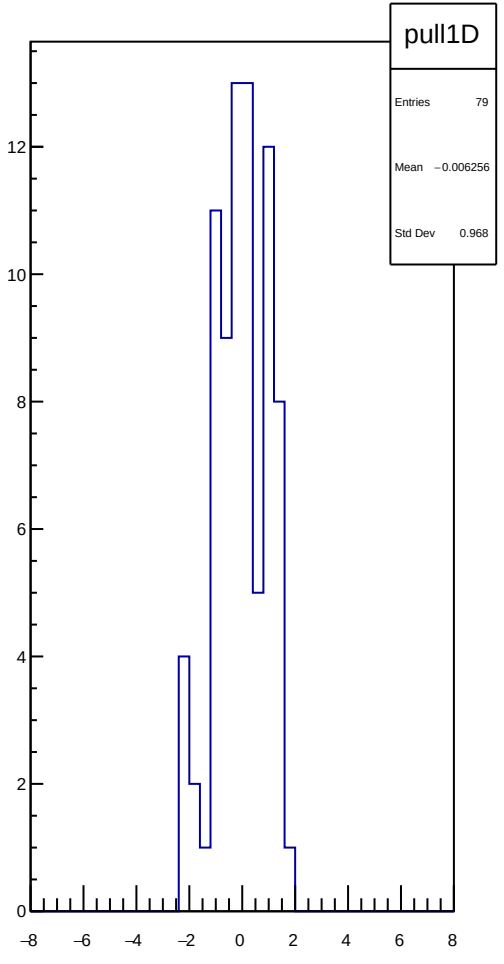

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.575e+04 / 78
p0 167.8 ± 0.1362
400
350
300
250
200
150

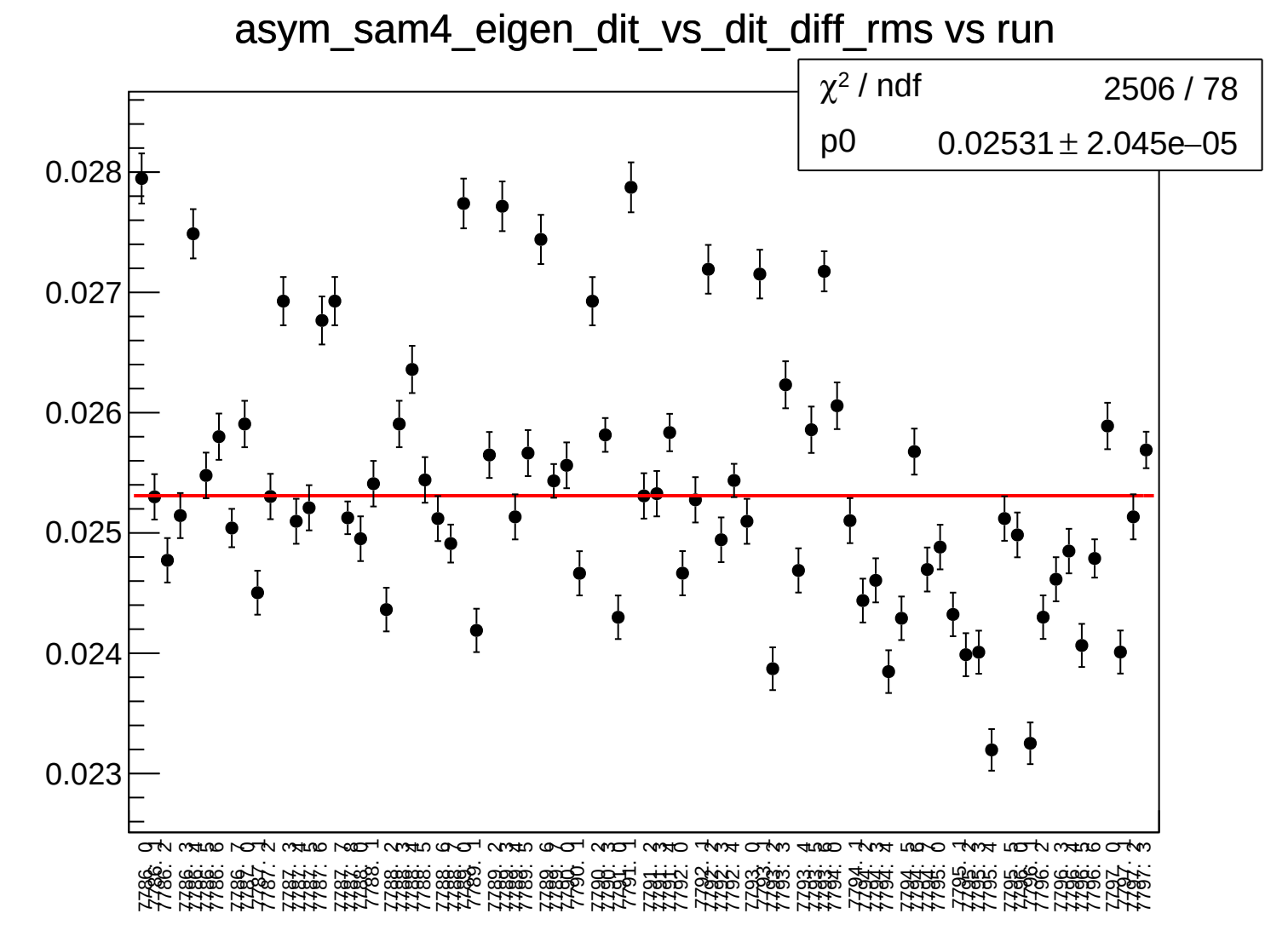

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.38 / 78
p0 −0.00714 ± 0.1925
pull
Entries 79
Mean 63.32
Std Dev 0

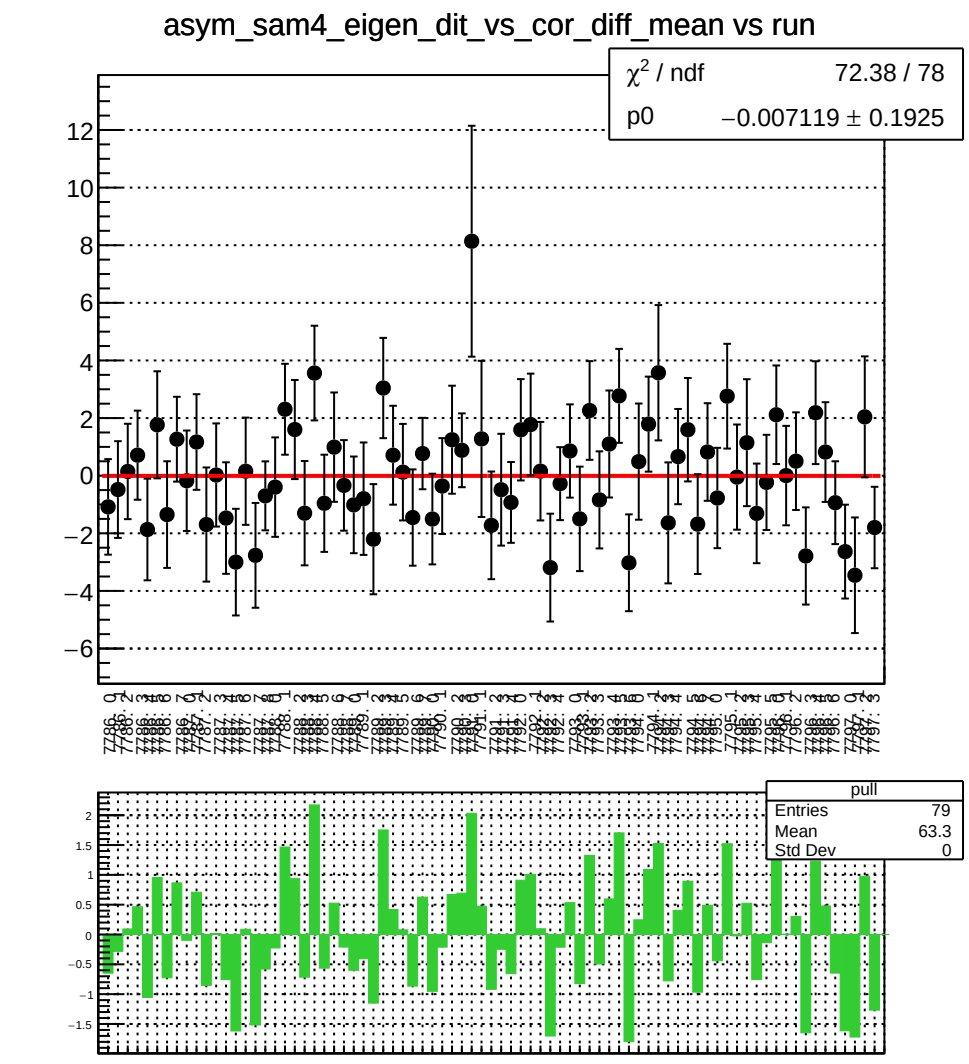

pull1D
Entries 79
Mean 0.01609
Std Dev 0.957

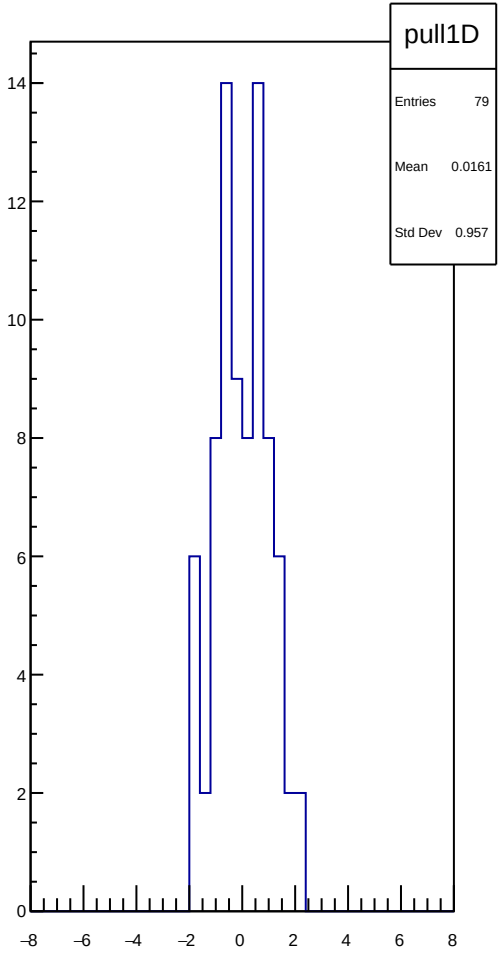

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.575e+04 / 78
p0 167.8 ± 0.1362
400
350
300
250
200
150

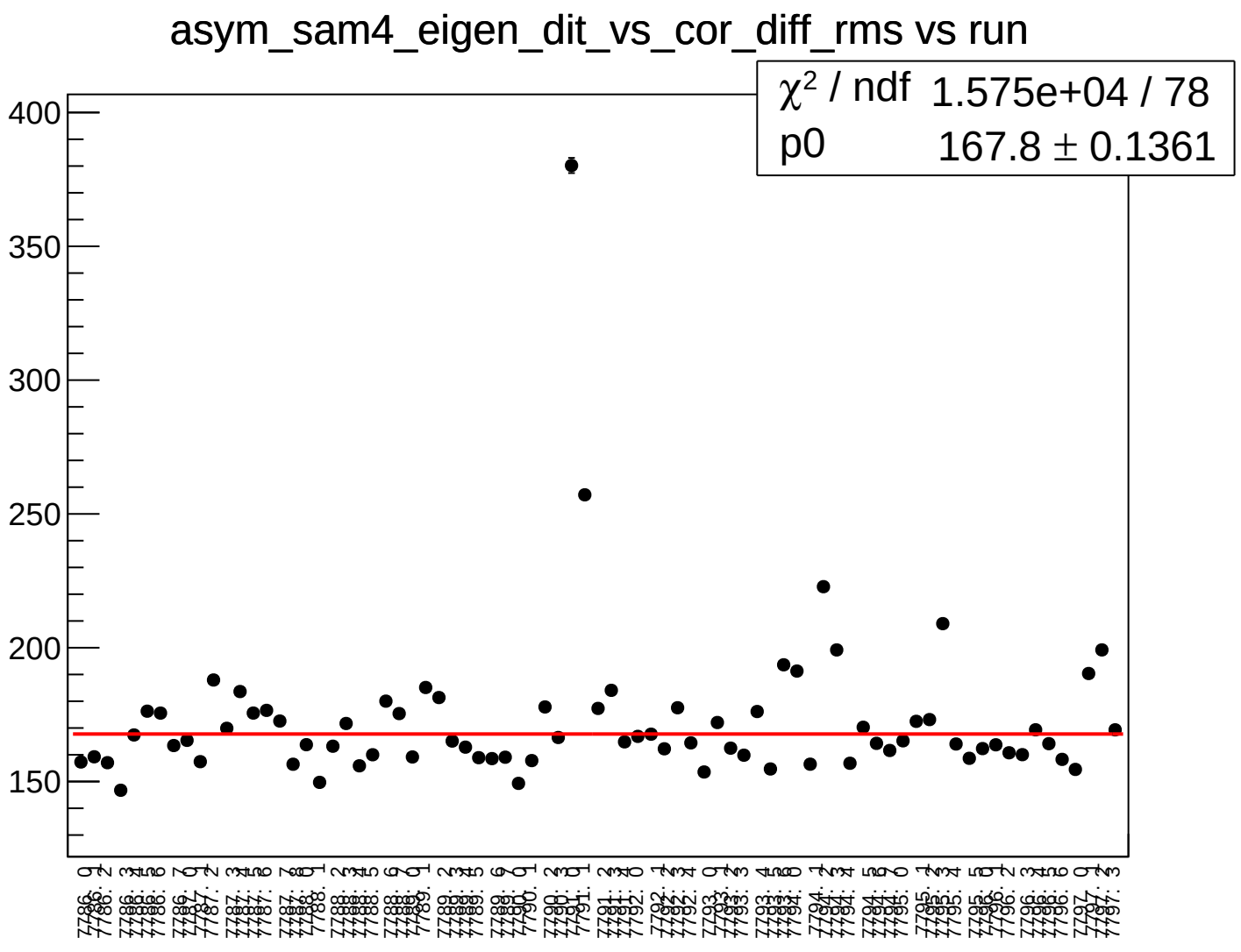

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.02 / 78
p0 5.172e−05 ± 2.892e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 79
Mean 183.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

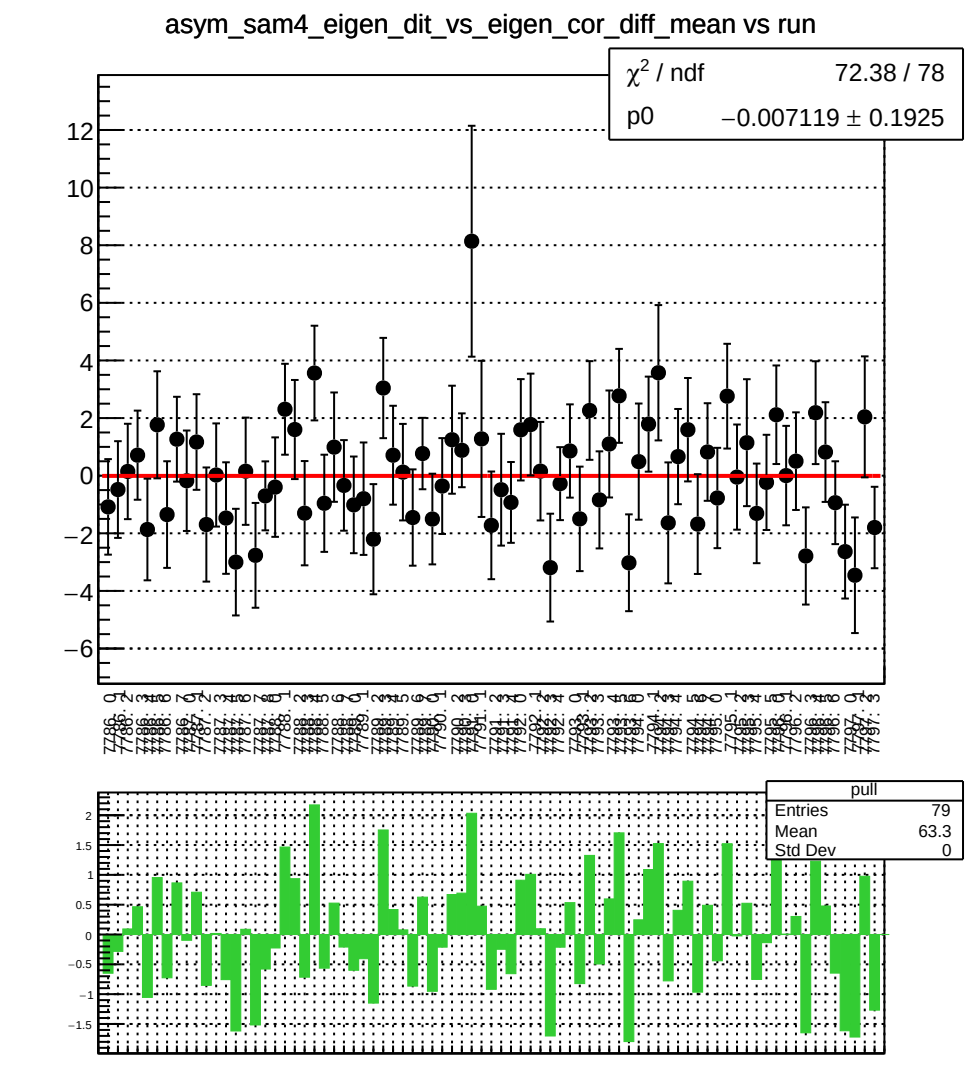

pull1D
Entries 79
Mean −0.006256
Std Dev 0.968
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

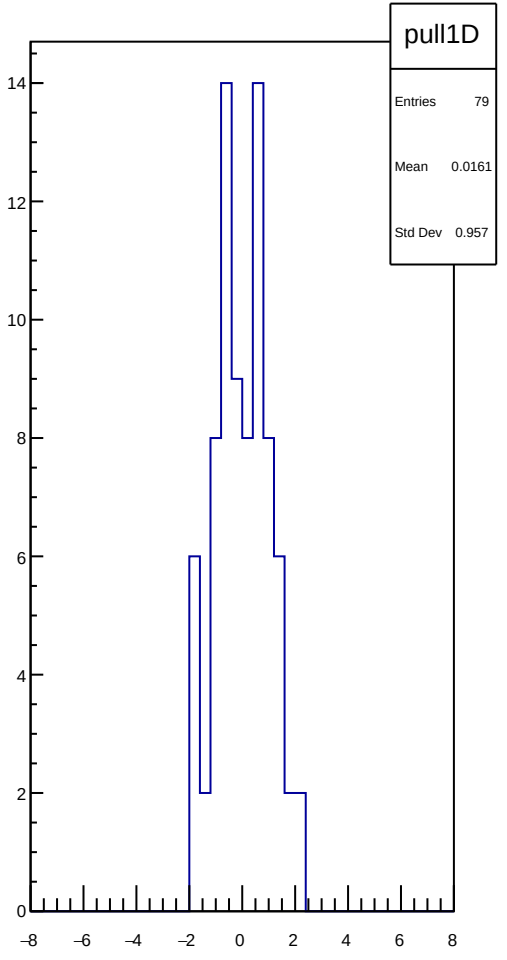

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2506 / 78
p0 0.02531 ± 2.045e−05
0.028
0.027
0.026
0.025
0.024
0.023

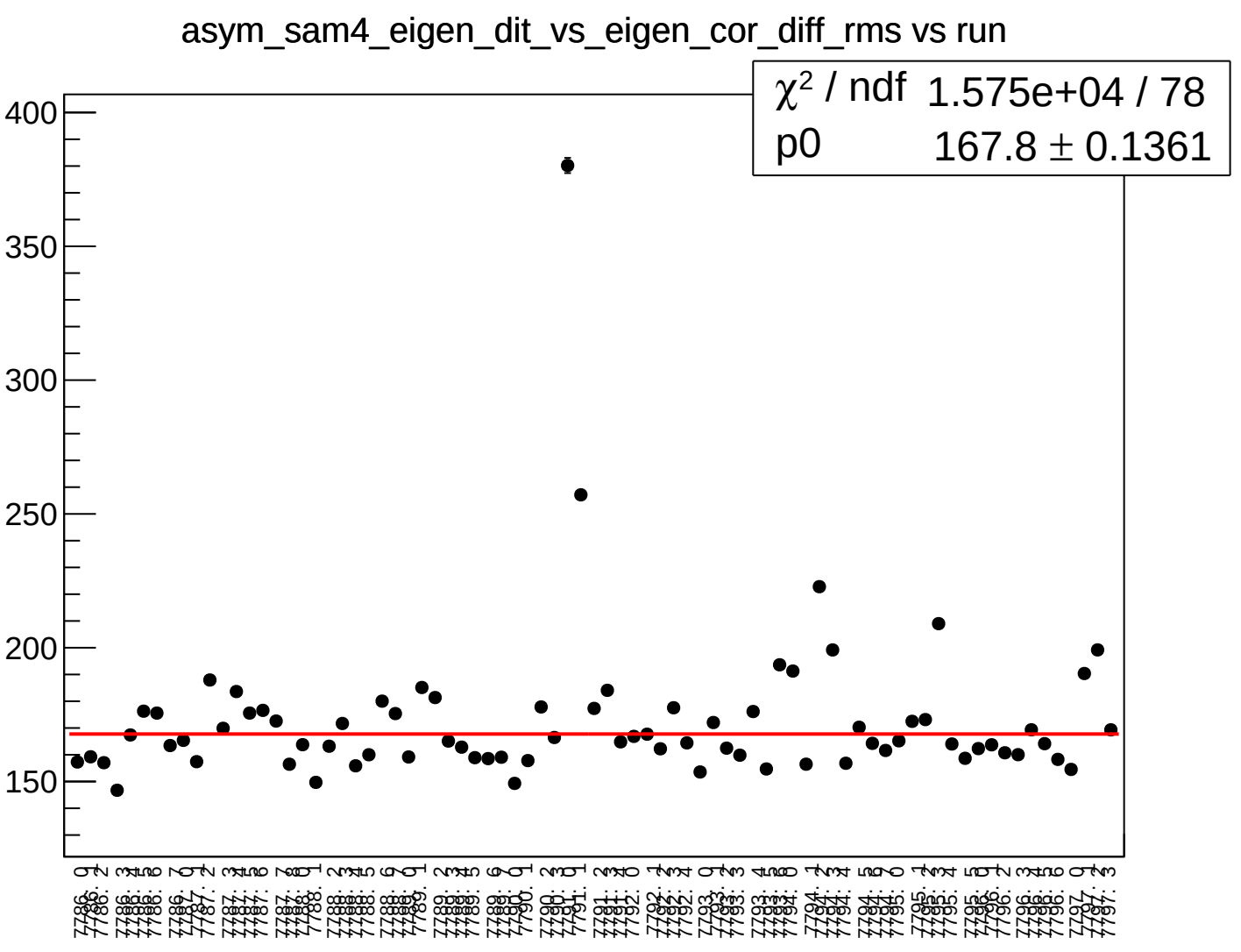

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.38 / 78
p0 −0.007119 ± 0.1925
pull
Entries 79
Mean 63.3
Std Dev 0

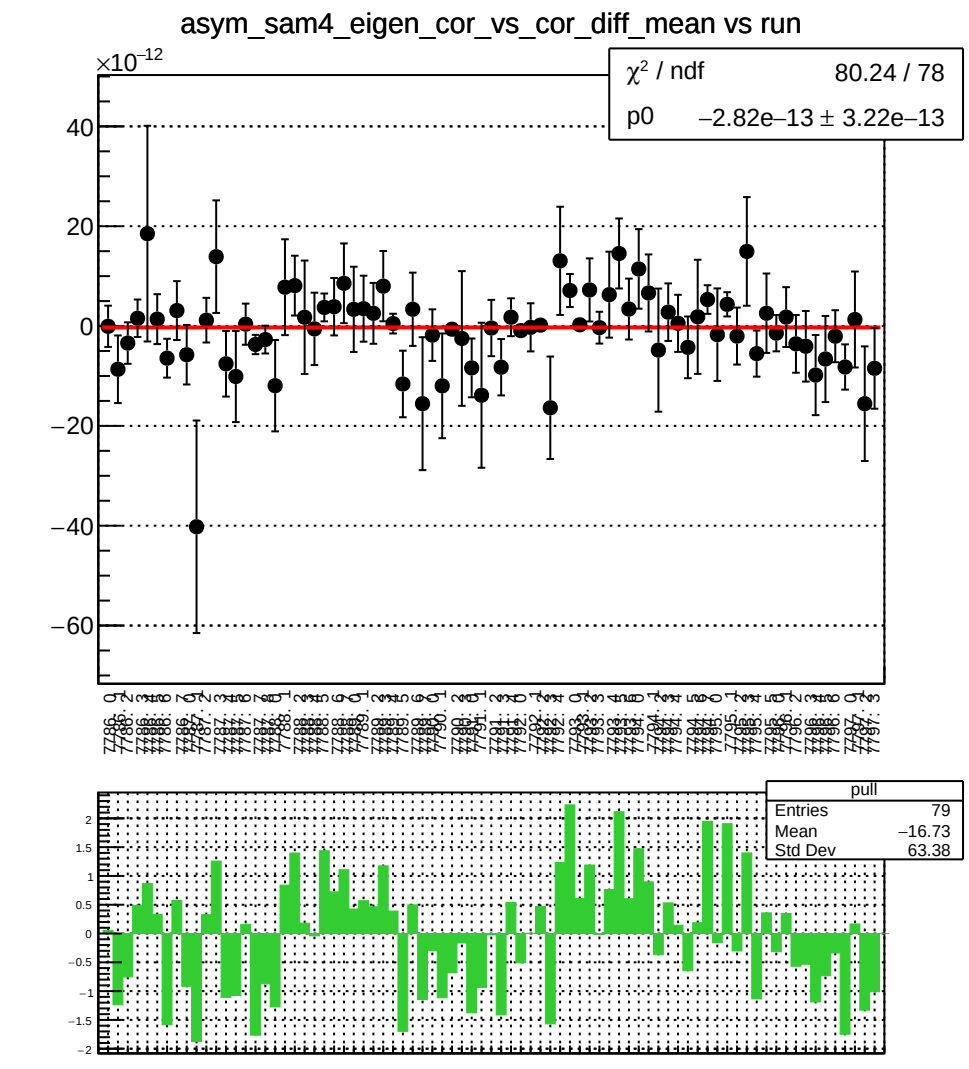

pull1D
Entries 79
Mean 0.0161
Std Dev 0.957

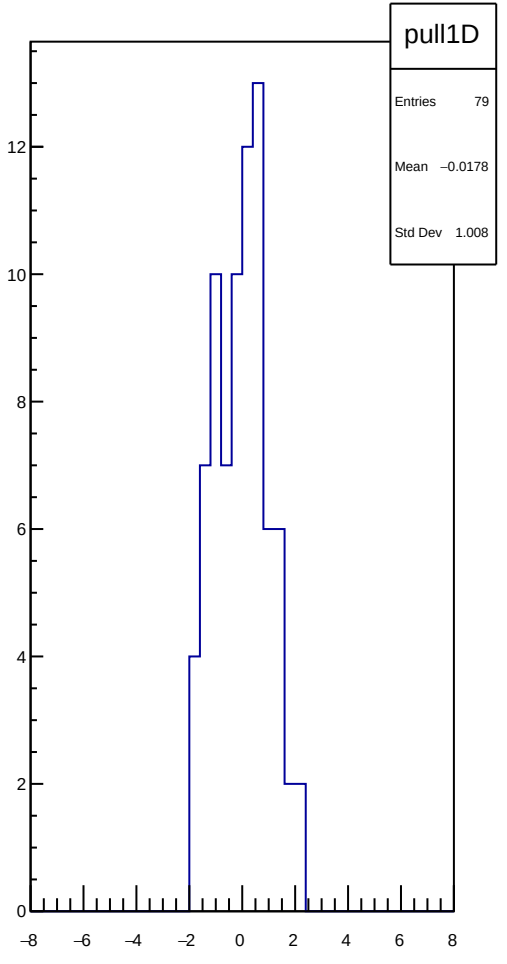

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.575e+04 / 78
p0 167.8 ± 0.1361
400
350
300
250
200
150

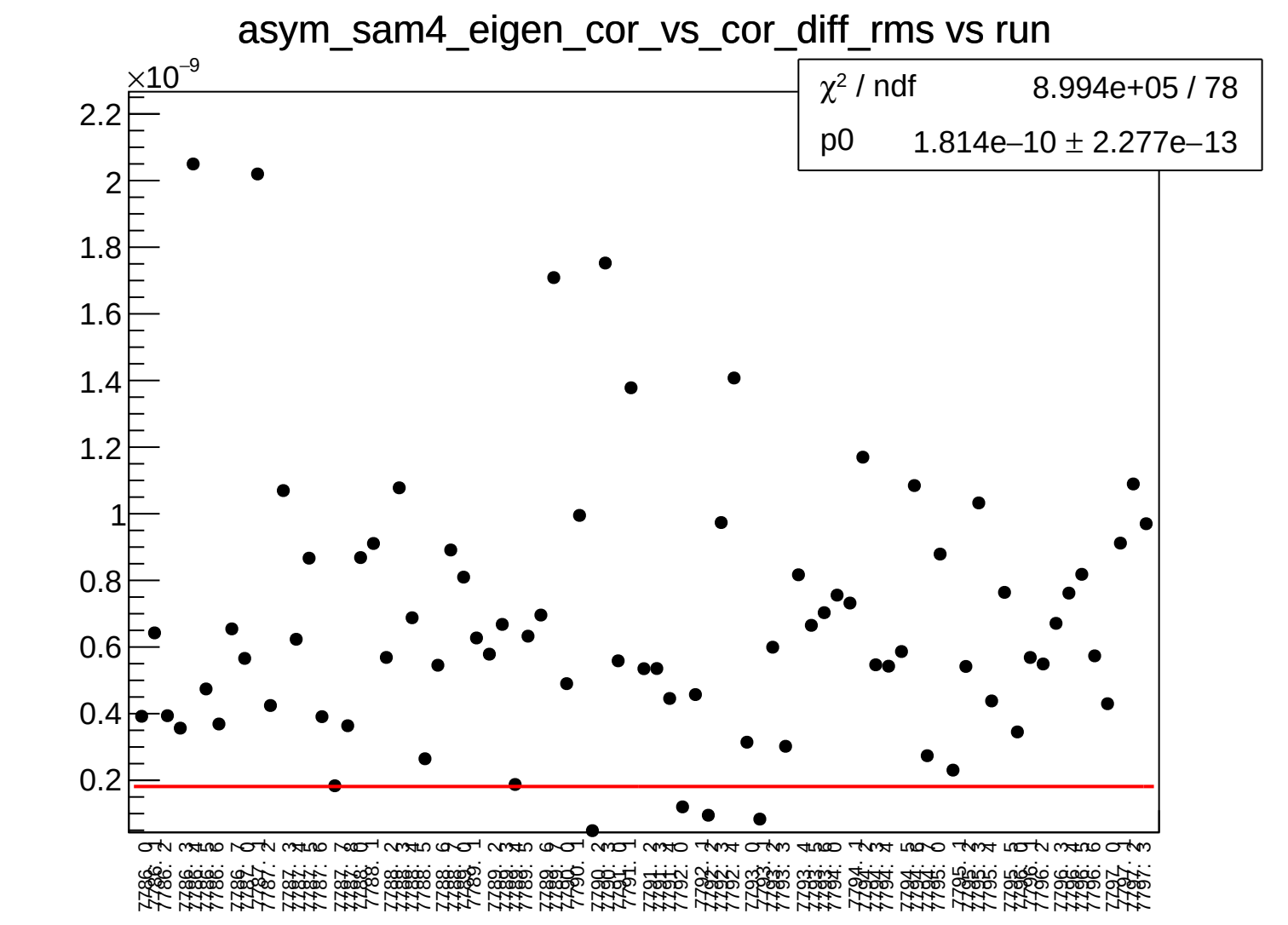

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.38 / 78
p0 −0.007119 ± 0.1925
pull
Entries 79
Mean 63.3
Std Dev 0

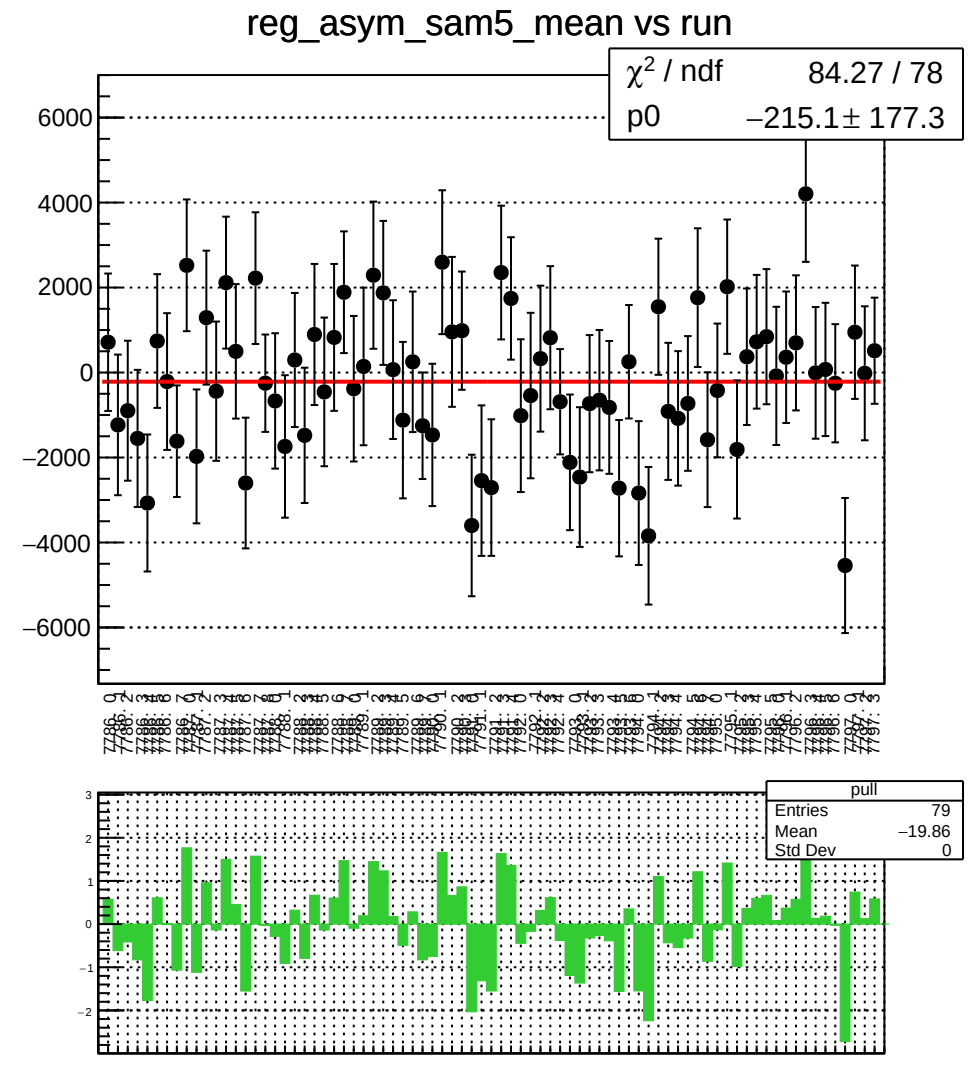

pull1D
Entries 79
Mean 0.0161
Std Dev 0.957

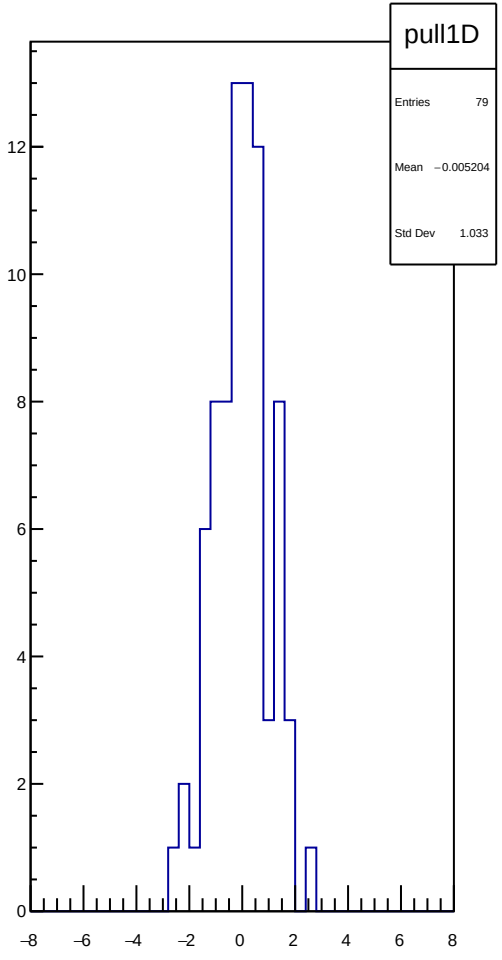

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.575e+04 / 78
p0 167.8 ± 0.1361
400
350
300
250
200
150

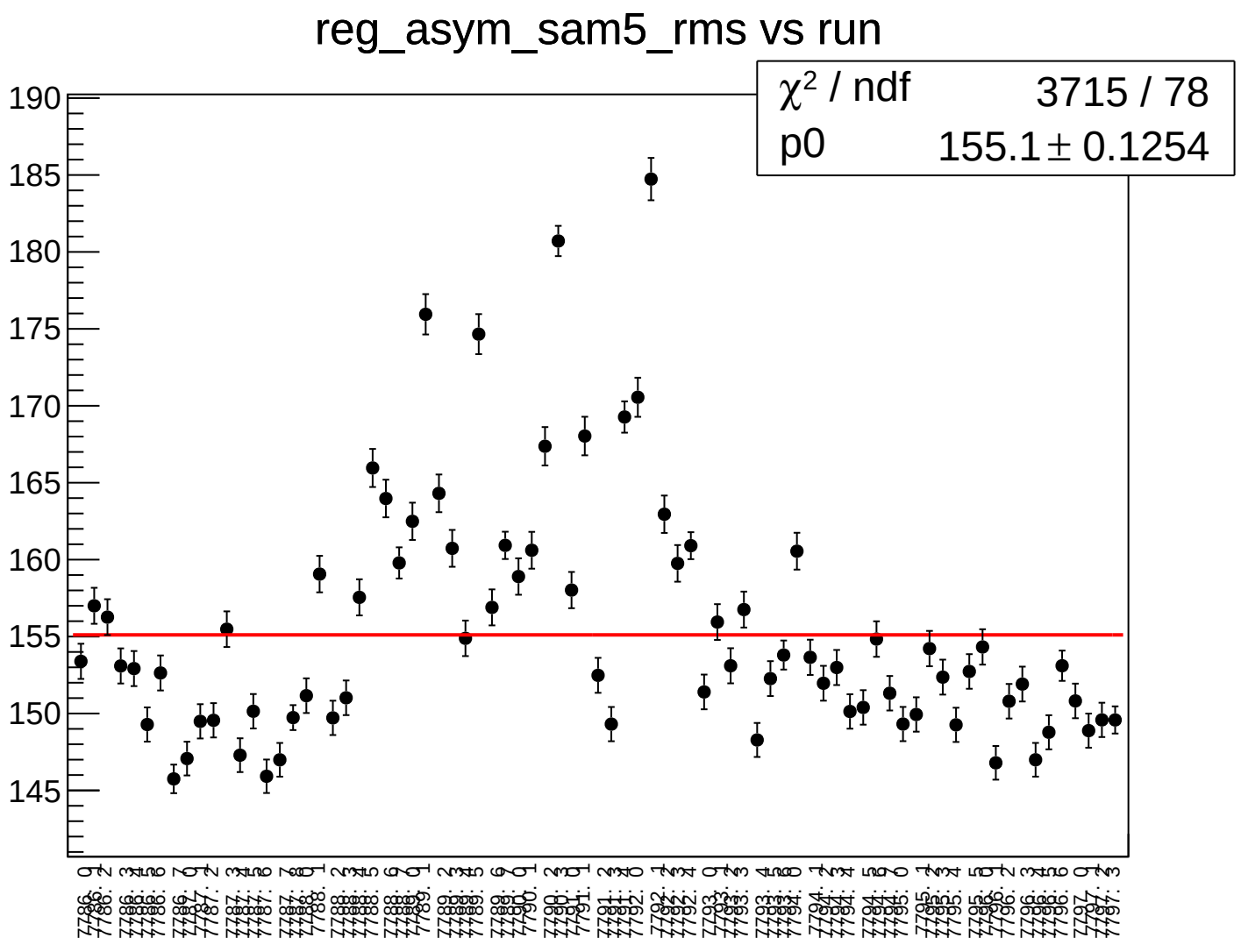

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.24 / 78
p0 −2.82e−13 ± 3.22e−13
pull
Entries 79
Mean −16.73
Std Dev 63.38

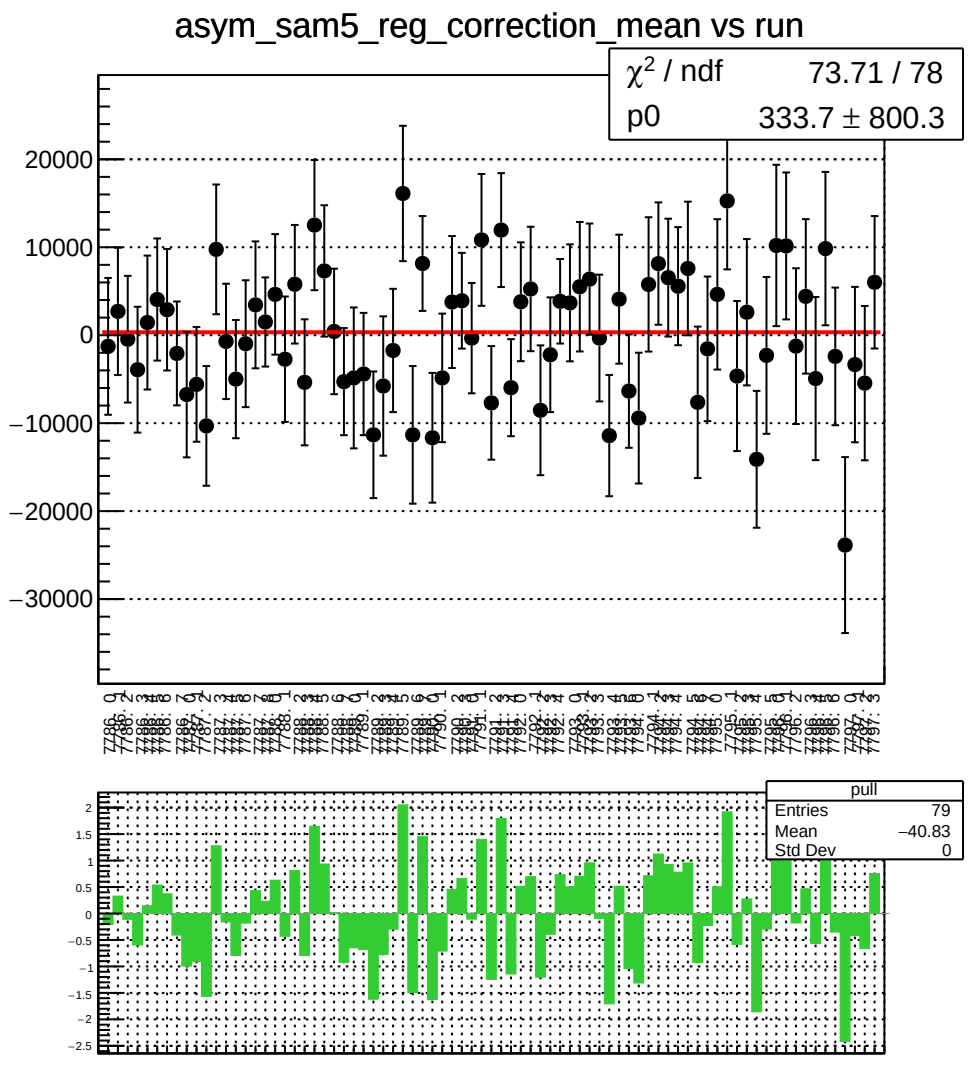

pull1D
Entries 79
Mean −0.0178
Std Dev 1.008

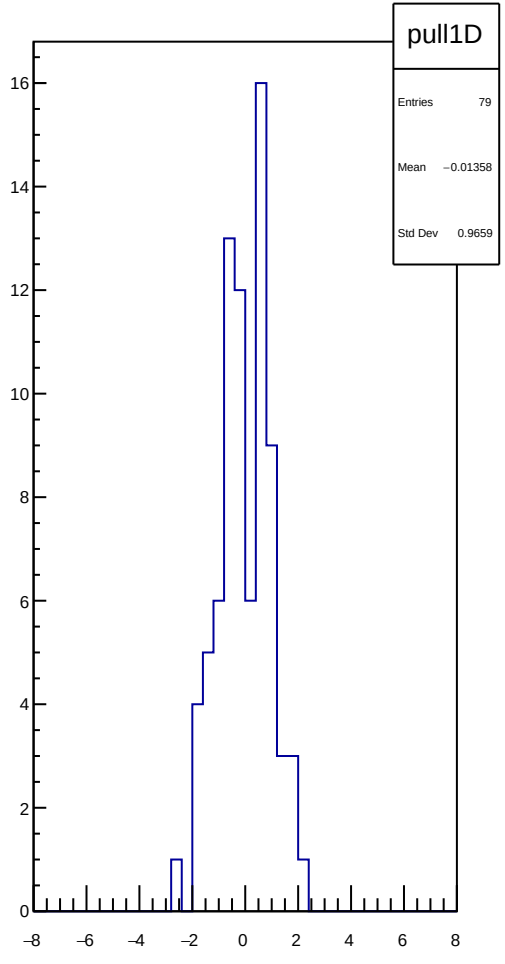

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.994e+05 / 78
p0 1.814e−10 ± 2.277e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

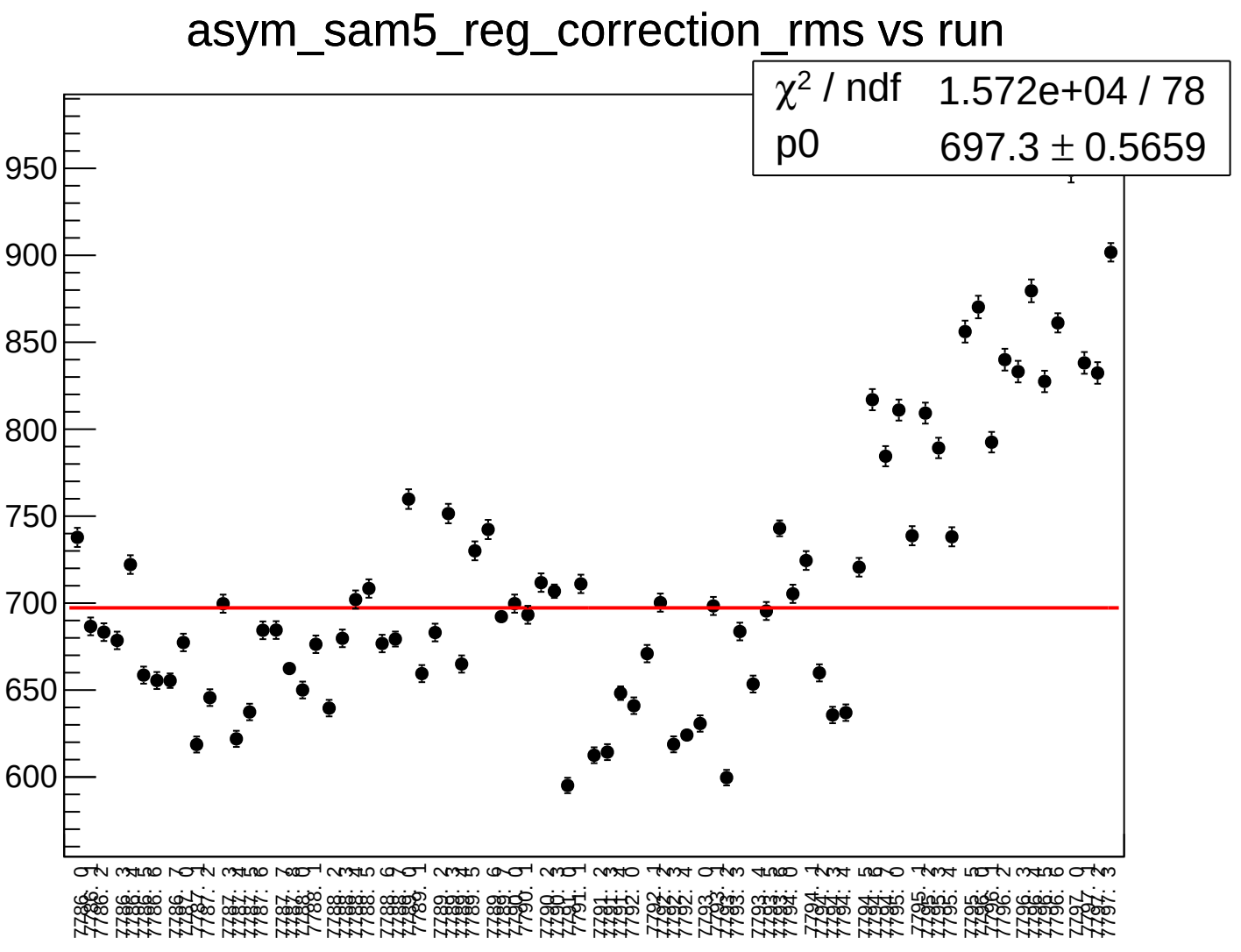

reg_asym_sam5_mean vs run
χ² / ndf 84.27 / 78
p0 −215.1± 177.3
pull
Entries 79
Mean −19.86
Std Dev 0

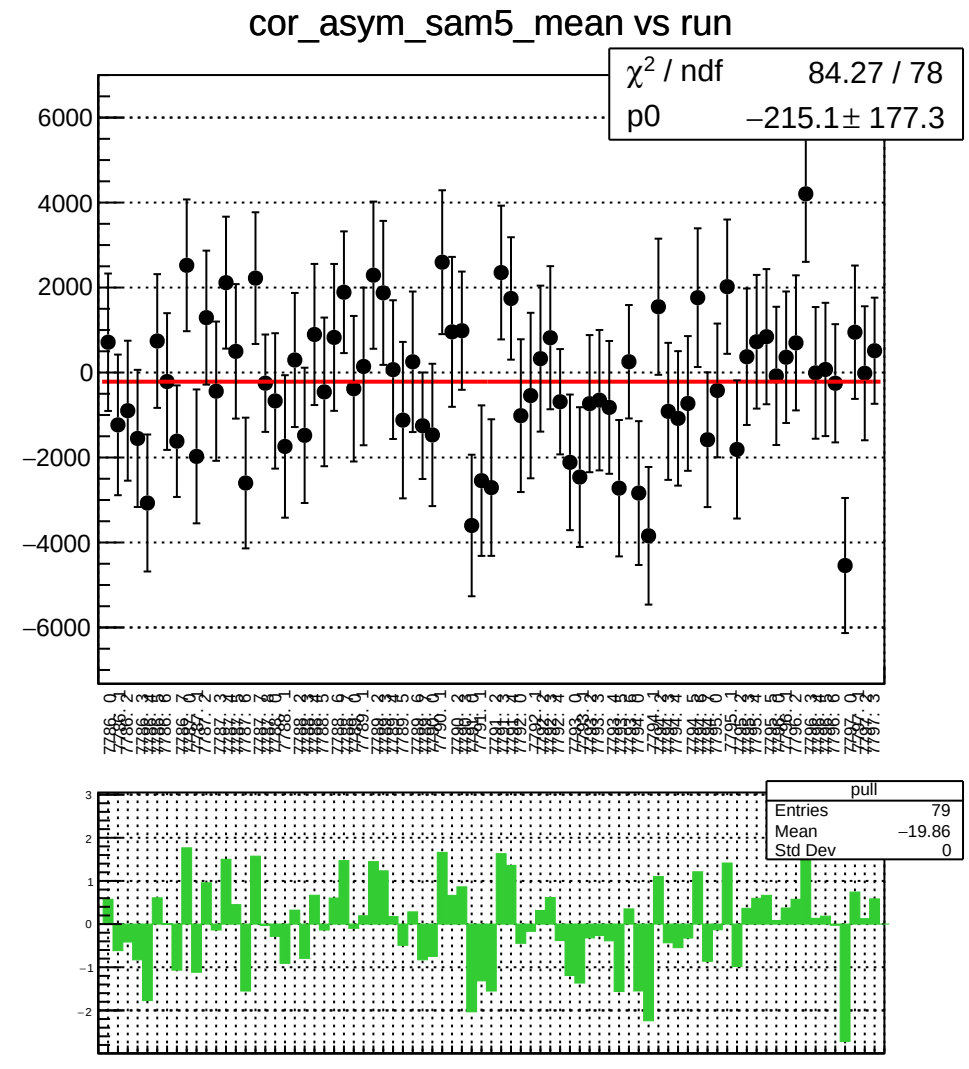

pull1D
Entries 79
Mean −0.005204
Std Dev 1.033

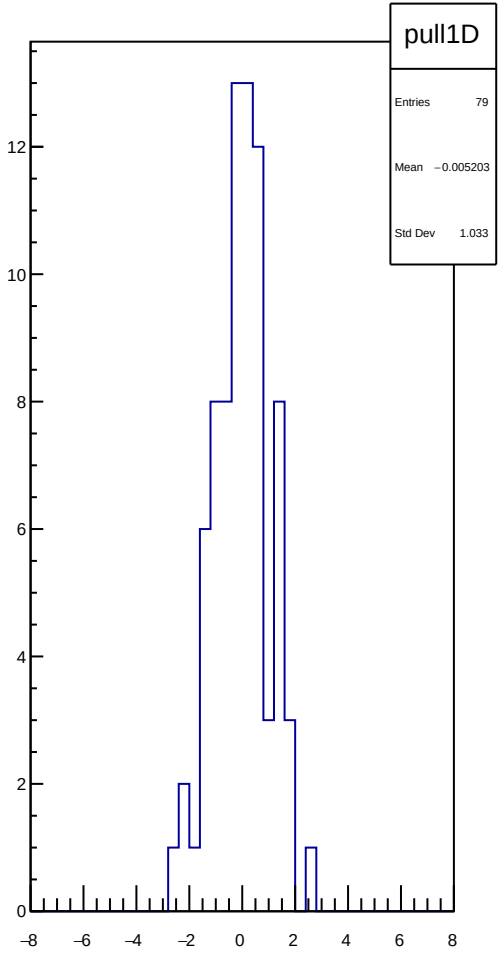

reg_asym_sam5_rms vs run
χ² / ndf 3715 / 78
p0 155.1 ± 0.1254
190
185
180
175
170
165
160
155
150
145

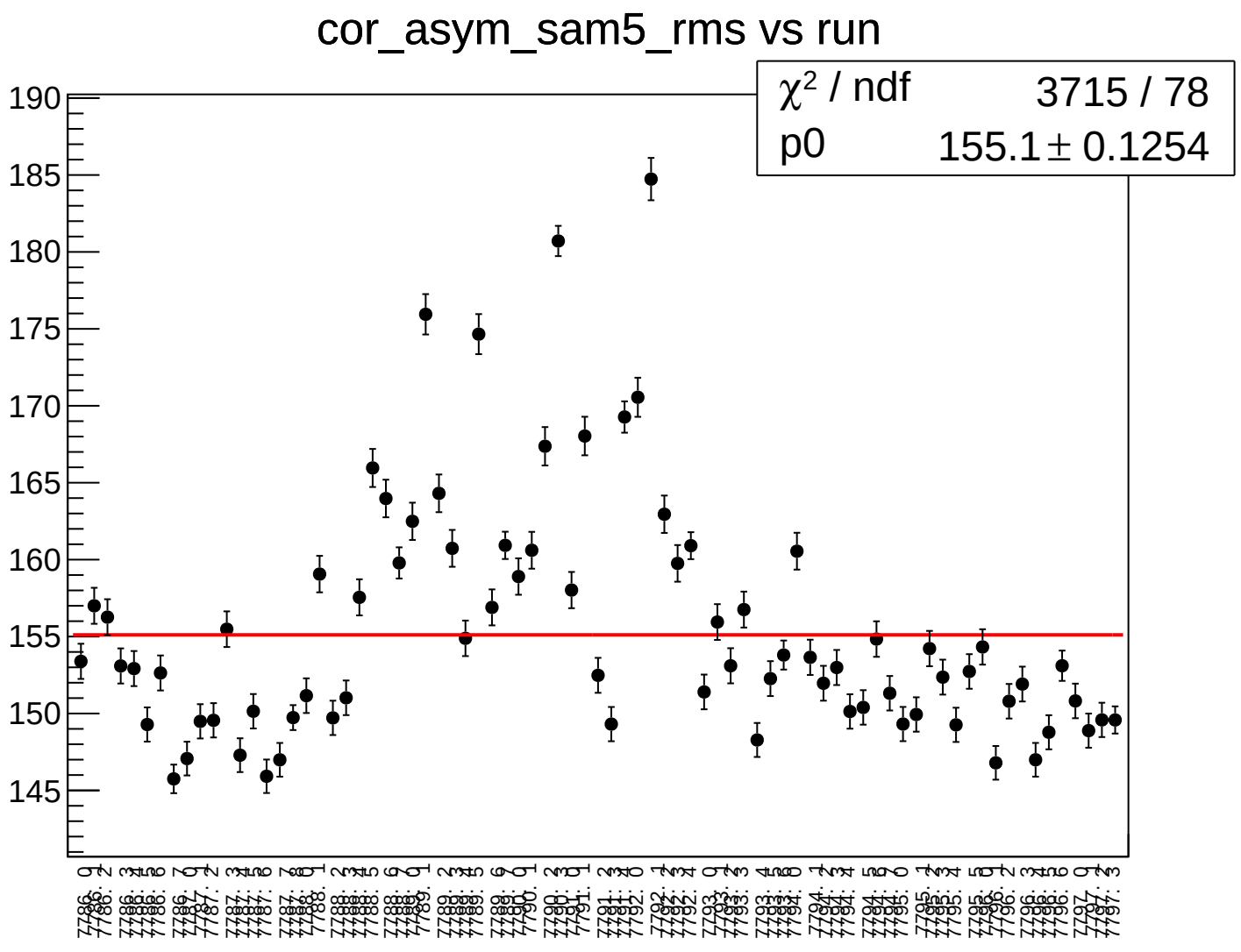

asym_sam5_reg_correction_mean vs run
χ² / ndf 73.71 / 78
p0 333.7 ± 800.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −40.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

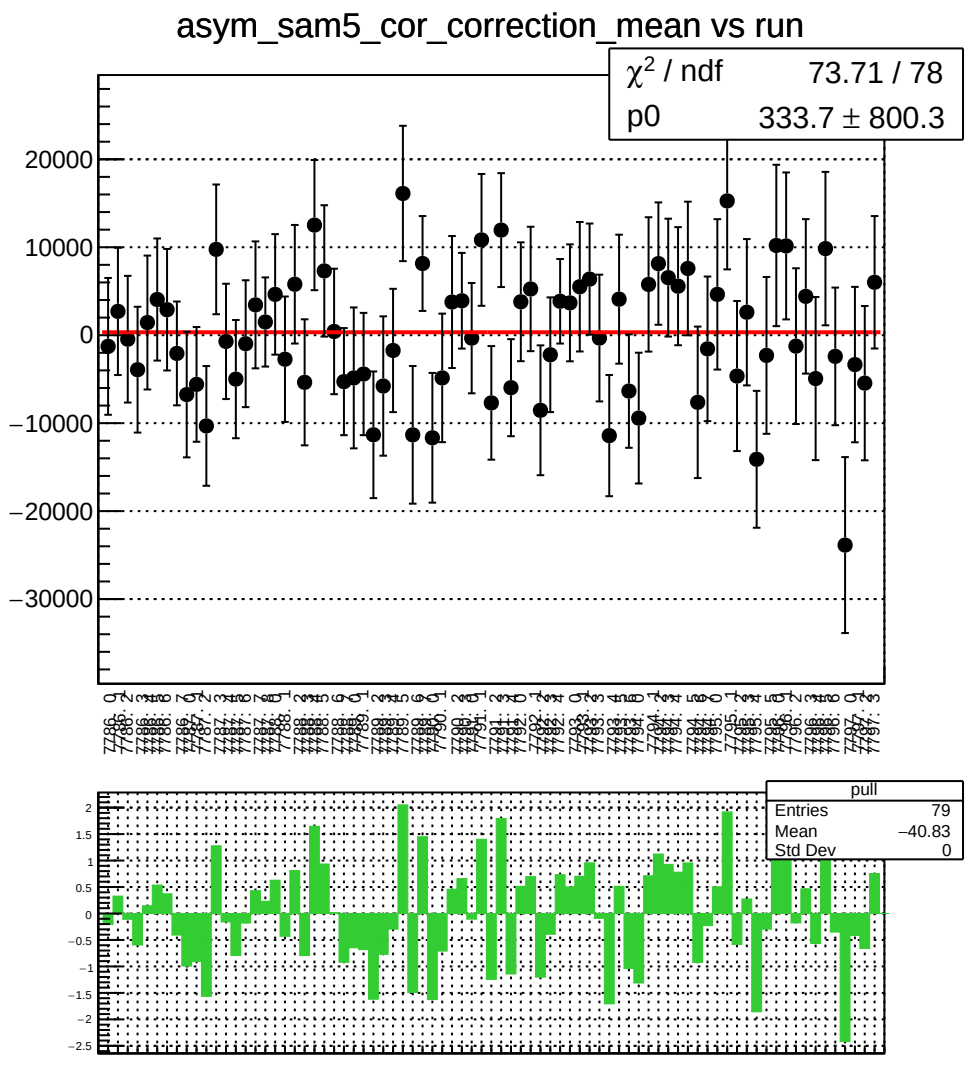

pull1D
Entries 79
Mean −0.01358
Std Dev 0.9659
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

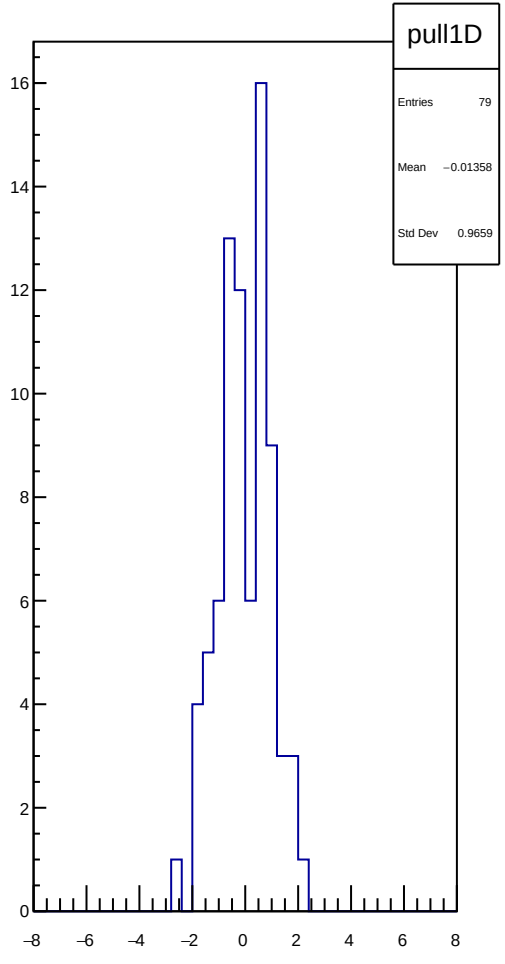

asym_sam5_reg_correction_rms vs run
χ² / ndf 1.572e+04 / 78
p0 697.3 ± 0.5659
950
900
850
800
750
700
650
600

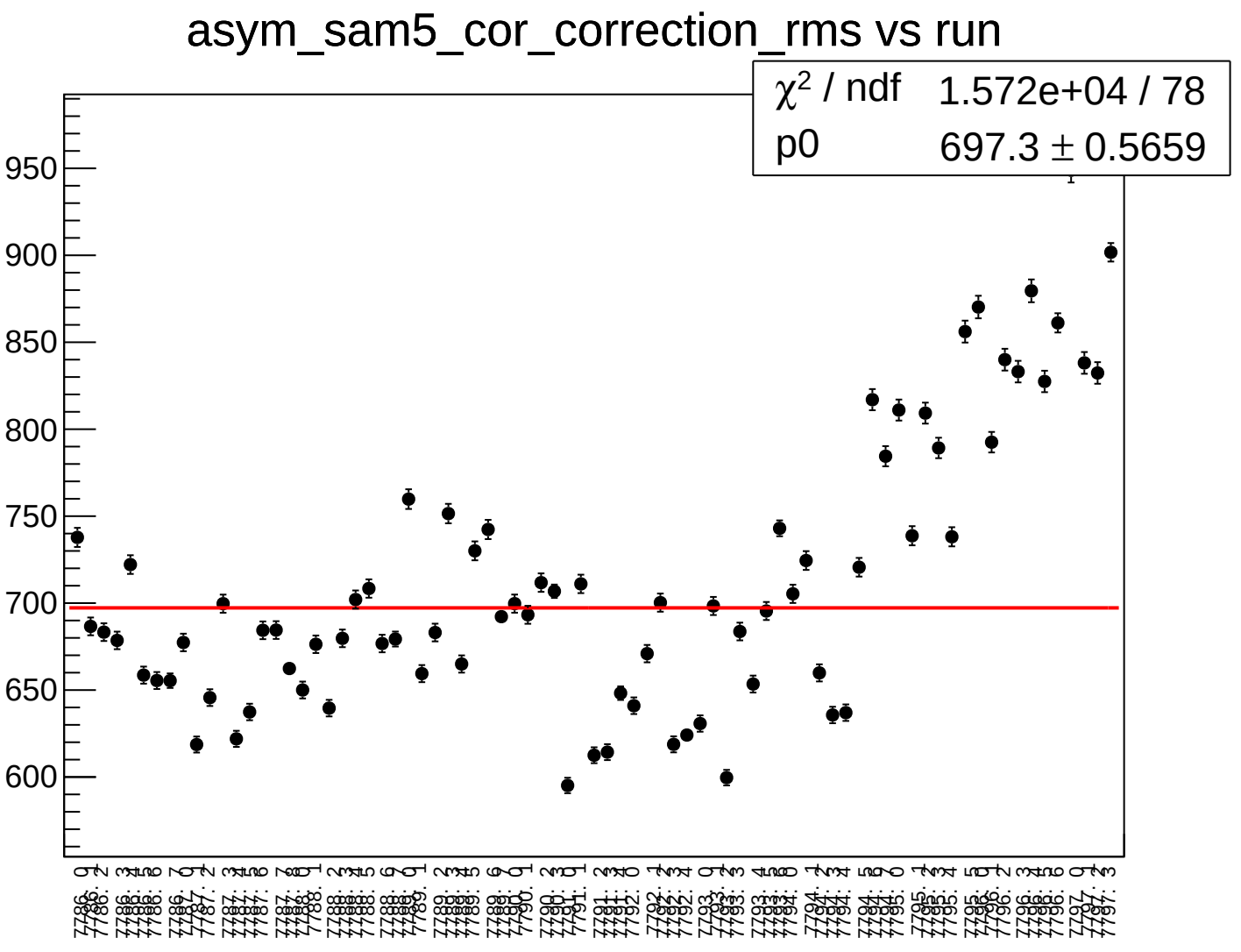

cor_asym_sam5_mean vs run
χ² / ndf 84.27 / 78
p0 −215.1± 177.3
pull
Entries 79
Mean −19.86
Std Dev 0

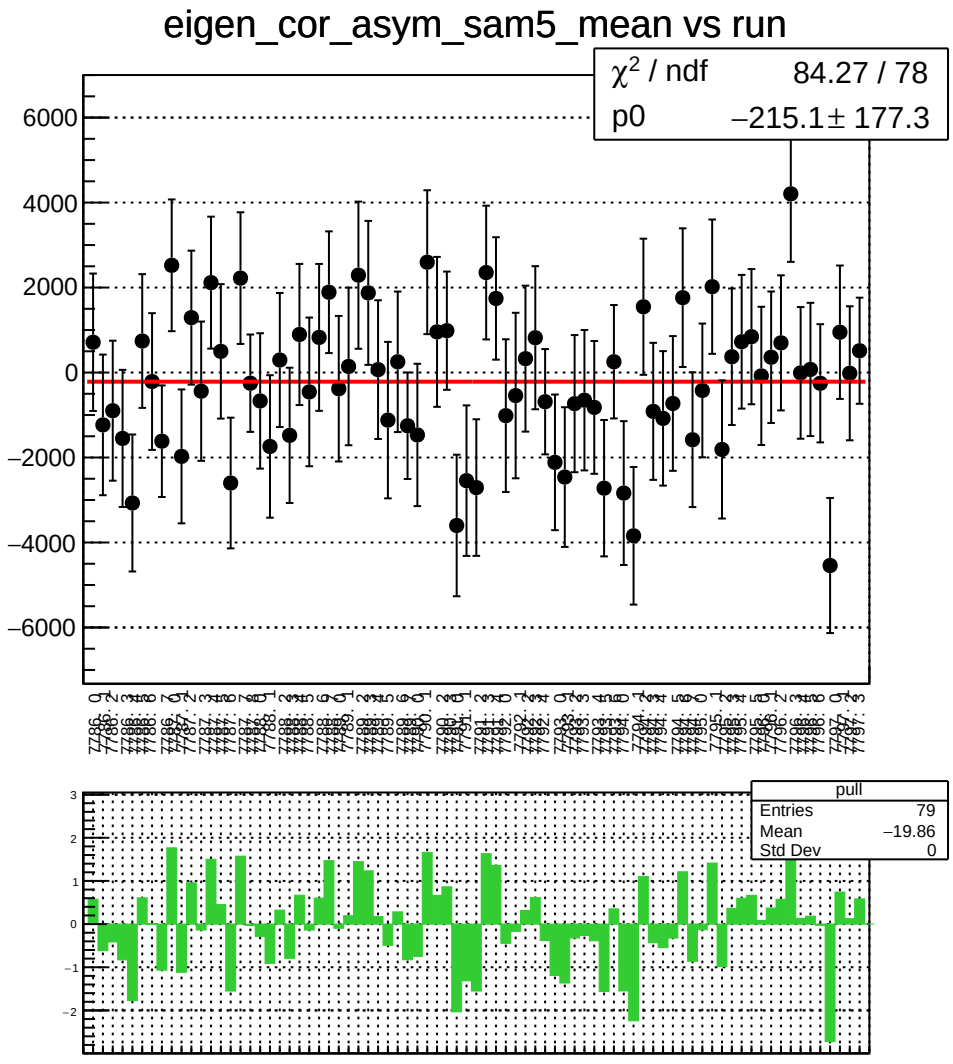

pull1D
Entries 79
Mean −0.005203
Std Dev 1.033

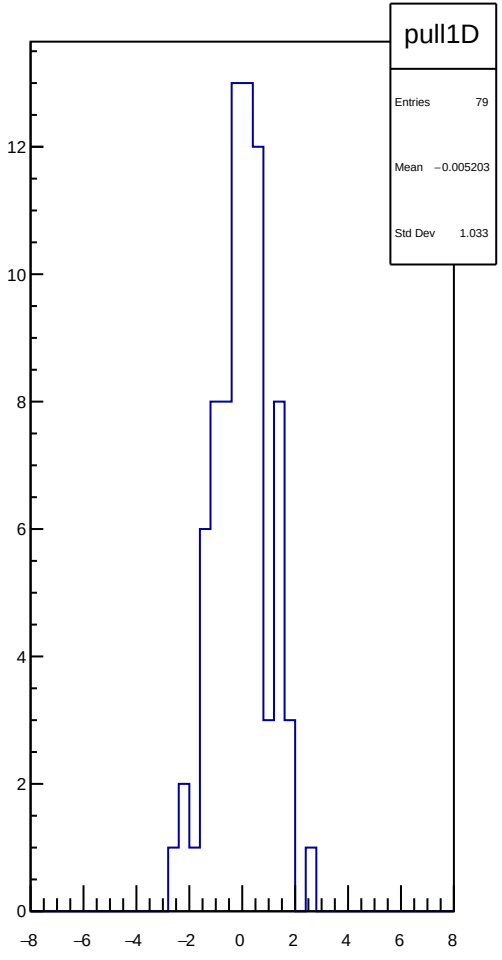

cor_asym_sam5_rms vs run
χ² / ndf 3715 / 78
p0 155.1 ± 0.1254
190
185
180
175
170
165
160
155
150
145

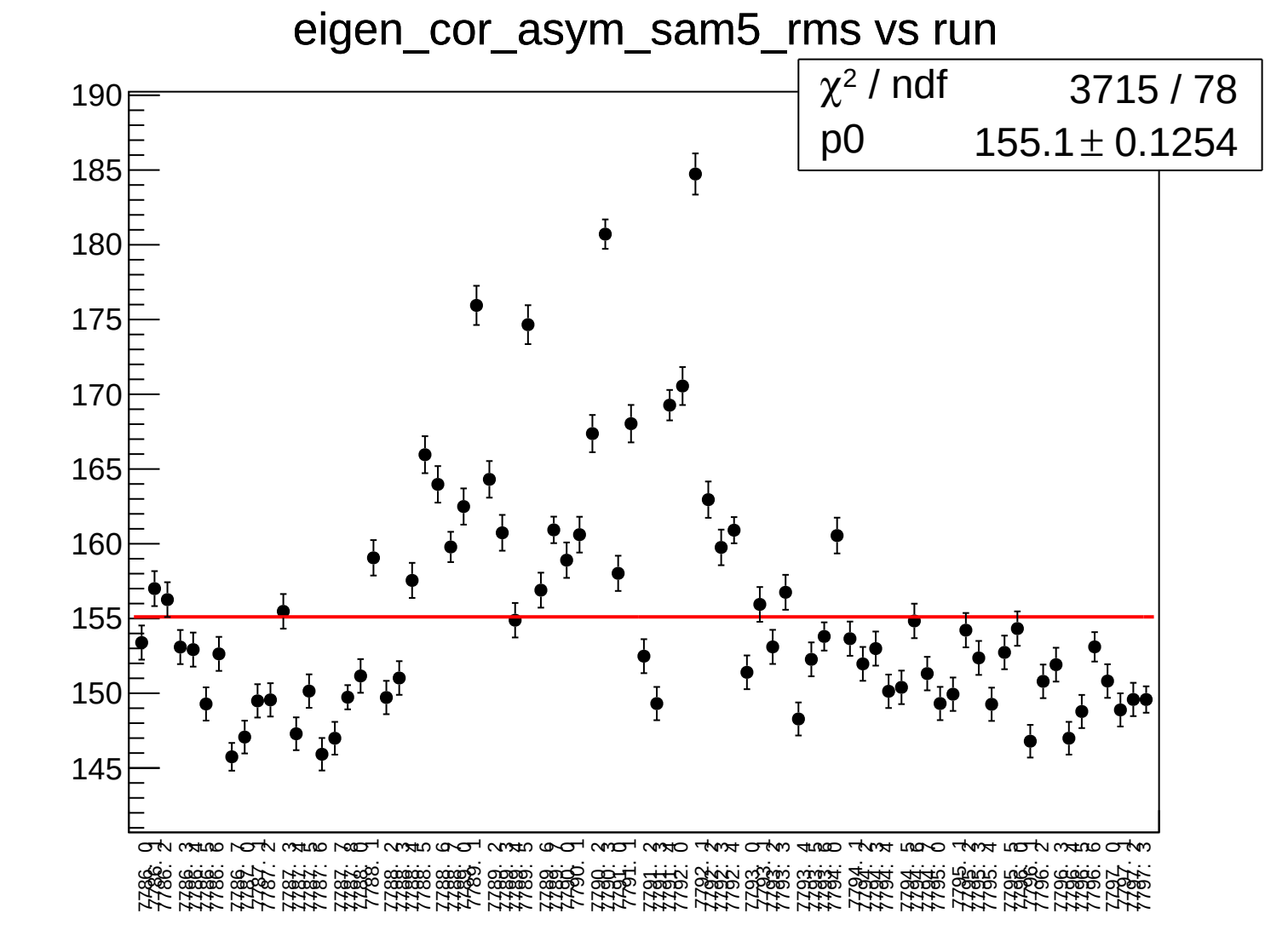

asym_sam5_cor_correction_mean vs run
χ² / ndf 73.71 / 78
p0 333.7 ± 800.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −40.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

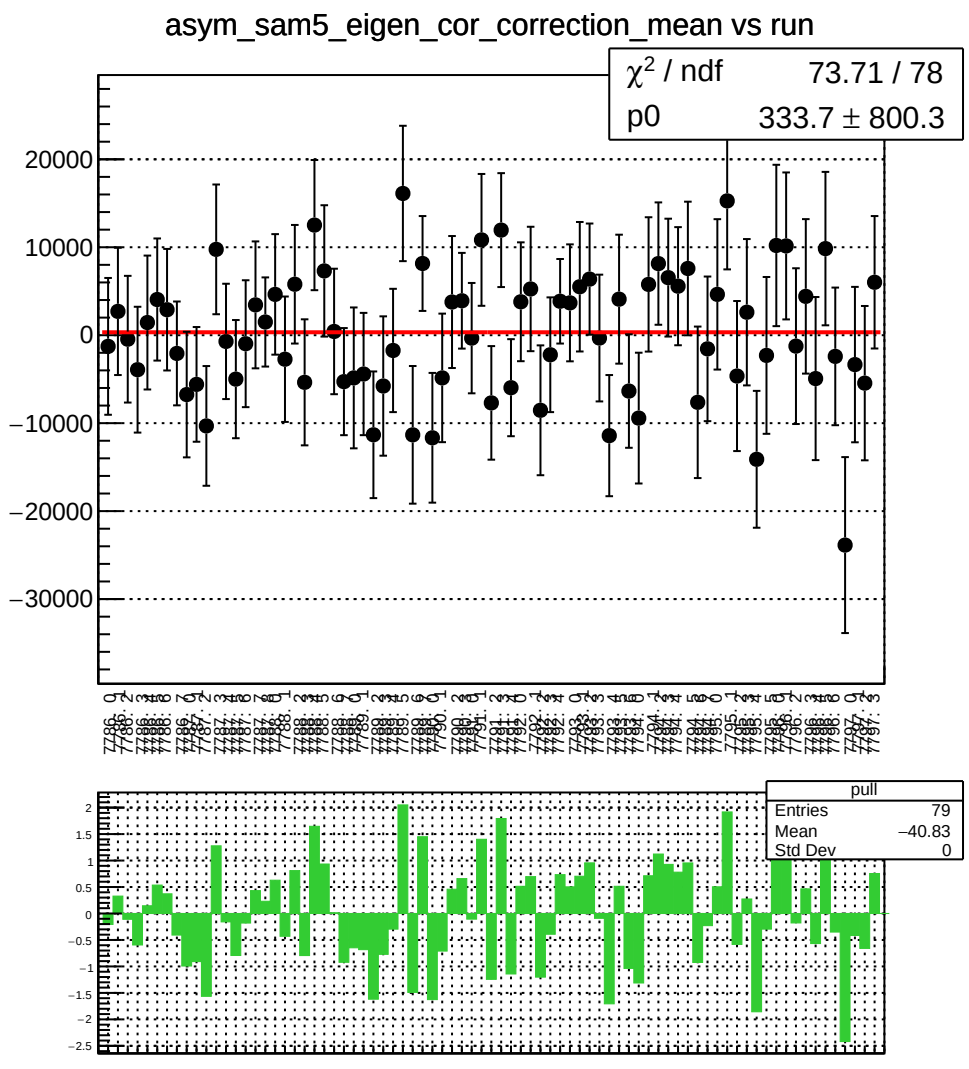

pull1D
Entries 79
Mean −0.01358
Std Dev 0.9659
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

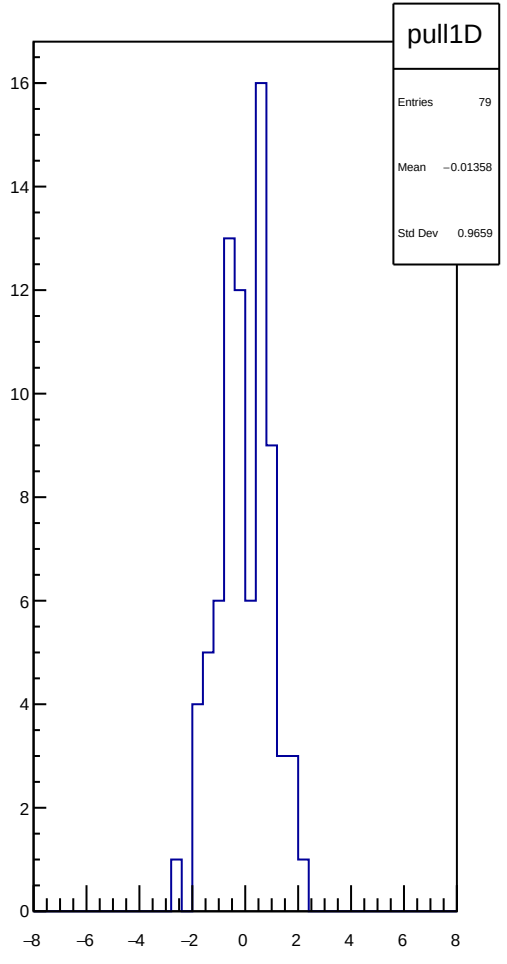

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.572e+04 / 78
p0 697.3 ± 0.5659
950
900
850
800
750
700
650
600

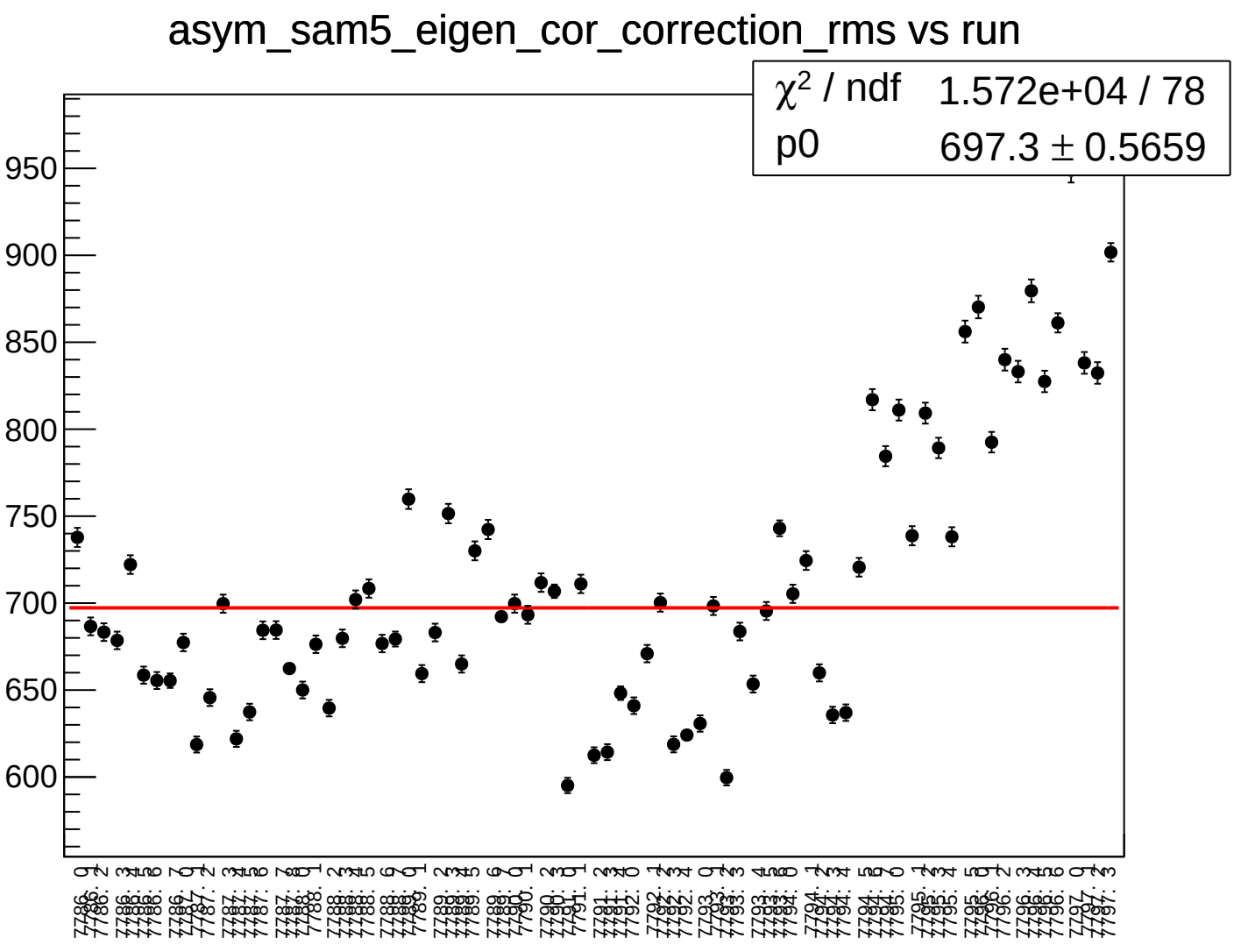

eigen_cor_asym_sam5_mean vs run
χ² / ndf 84.27 / 78
p0 −215.1± 177.3
pull
Entries 79
Mean −19.86
Std Dev 0

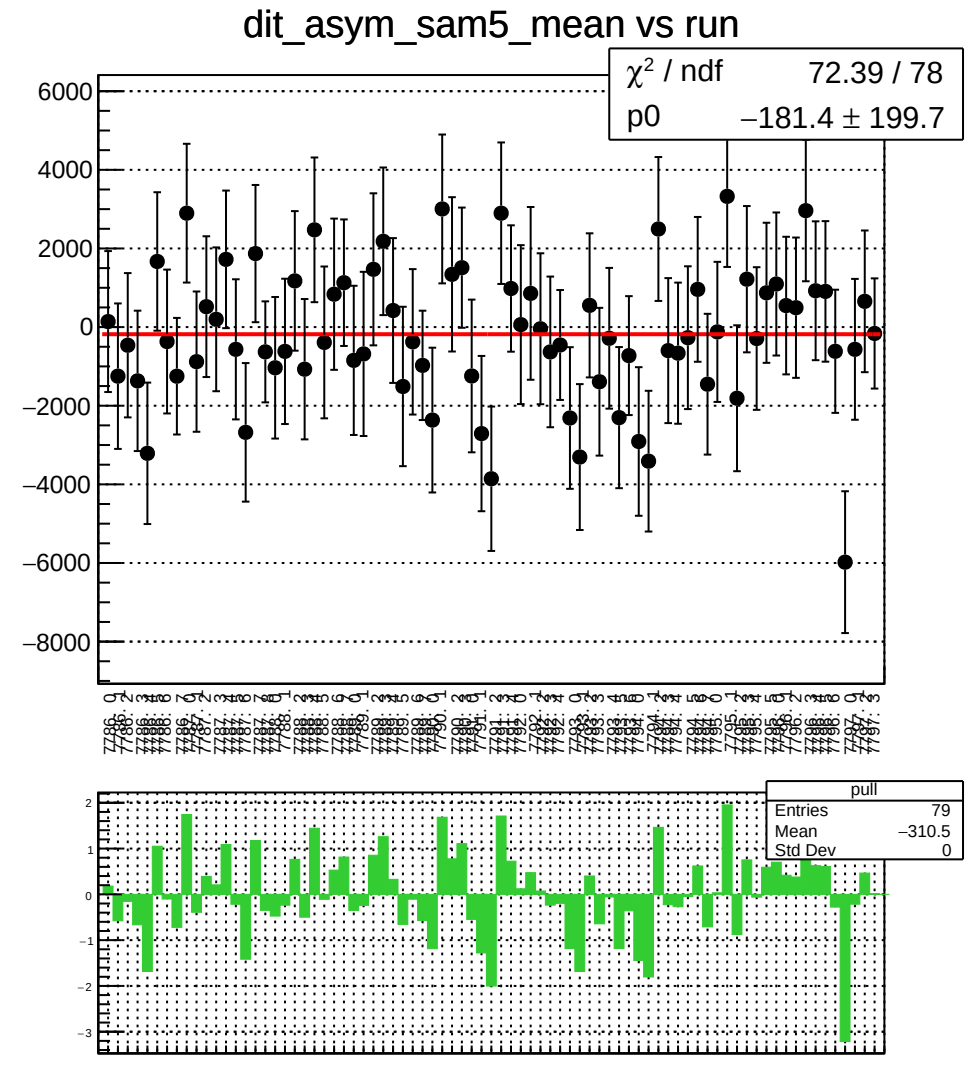

pull1D
Entries 79
Mean −0.005203
Std Dev 1.033

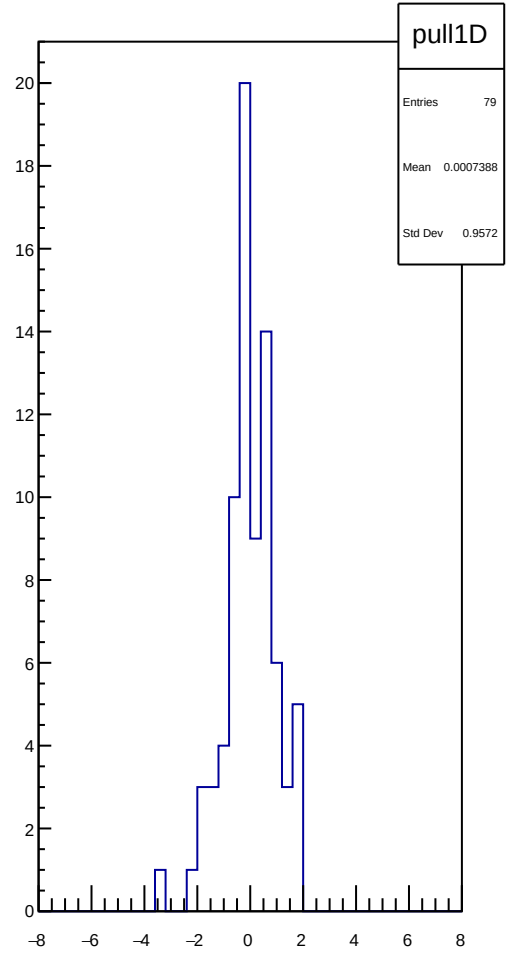

eigen_cor_asym_sam5_rms vs run
χ² / ndf 3715 / 78
p0 155.1 ± 0.1254
190
185
180
175
170
165
160
155
150
145

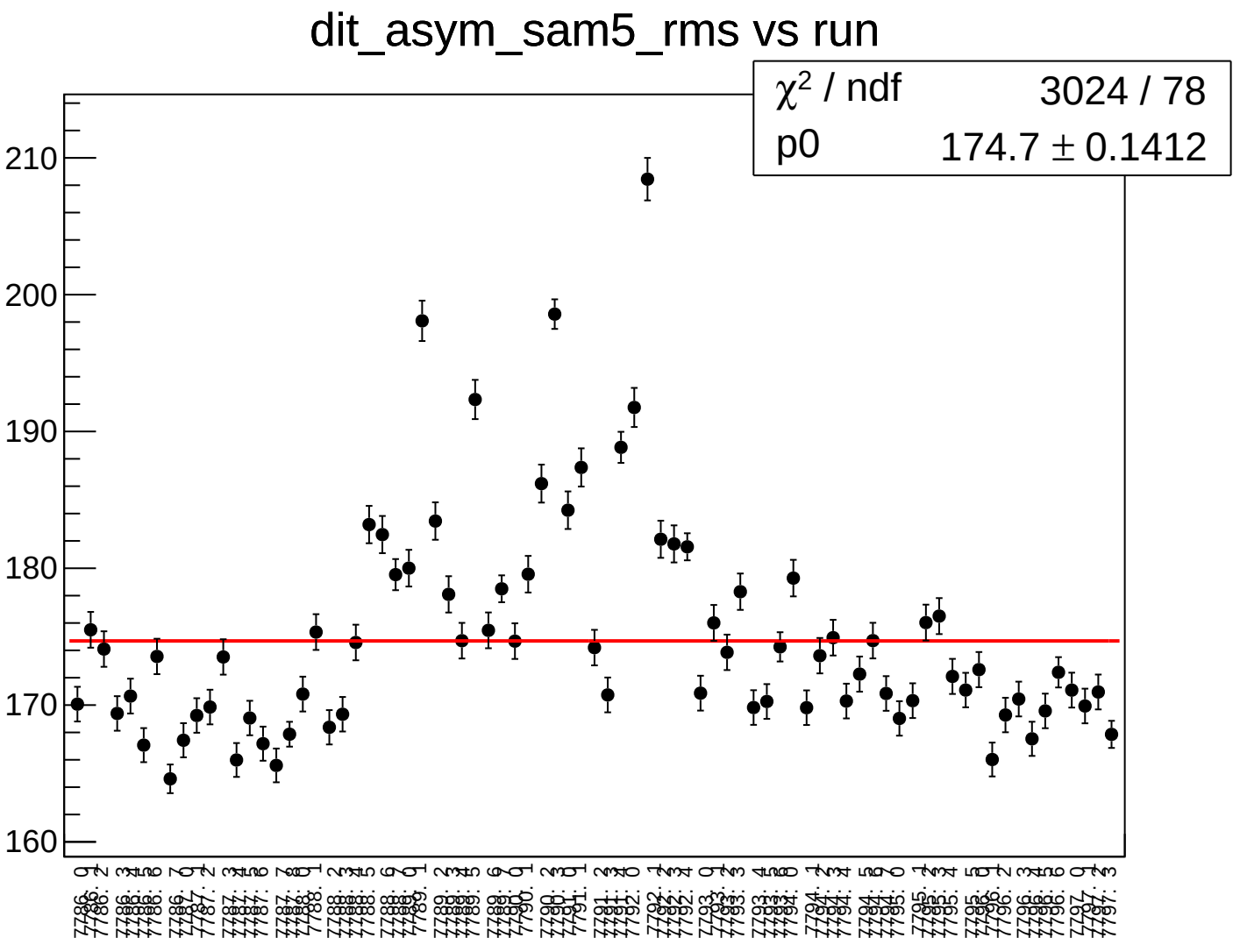

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 73.71 / 78
p0 333.7 ± 800.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −40.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

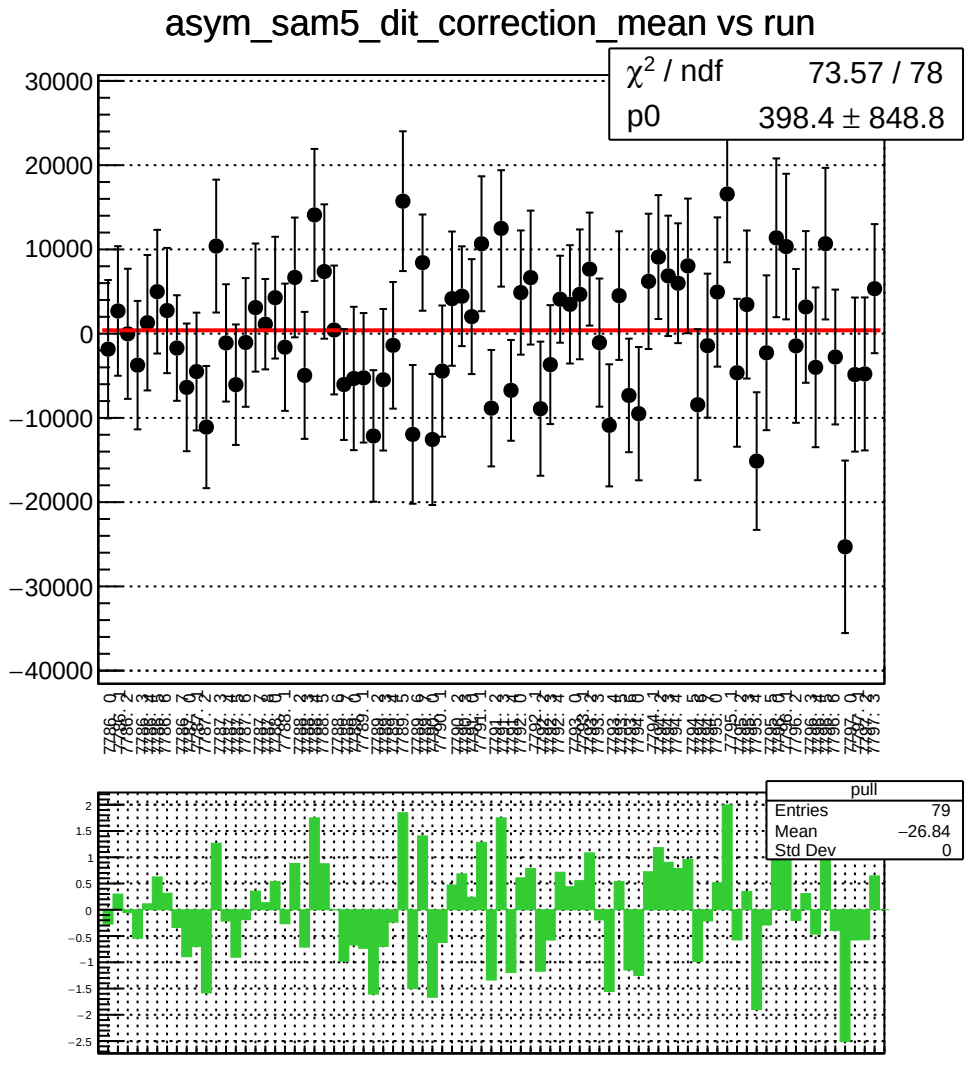

pull1D
Entries 79
Mean −0.01358
Std Dev 0.9659
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

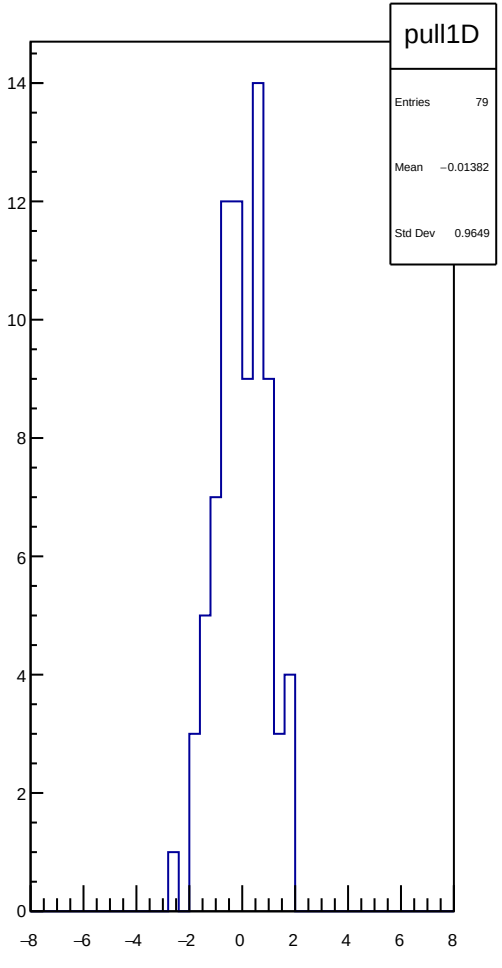

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1.572e+04 / 78
p0 697.3 ± 0.5659
950
900
850
800
750
700
650
600


dit_asym_sam5_mean vs run
χ² / ndf 72.39 / 78
p0 −181.4 ± 199.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 79
Mean −310.5
Std Dev 0
2
1
0
−1
−2
−3

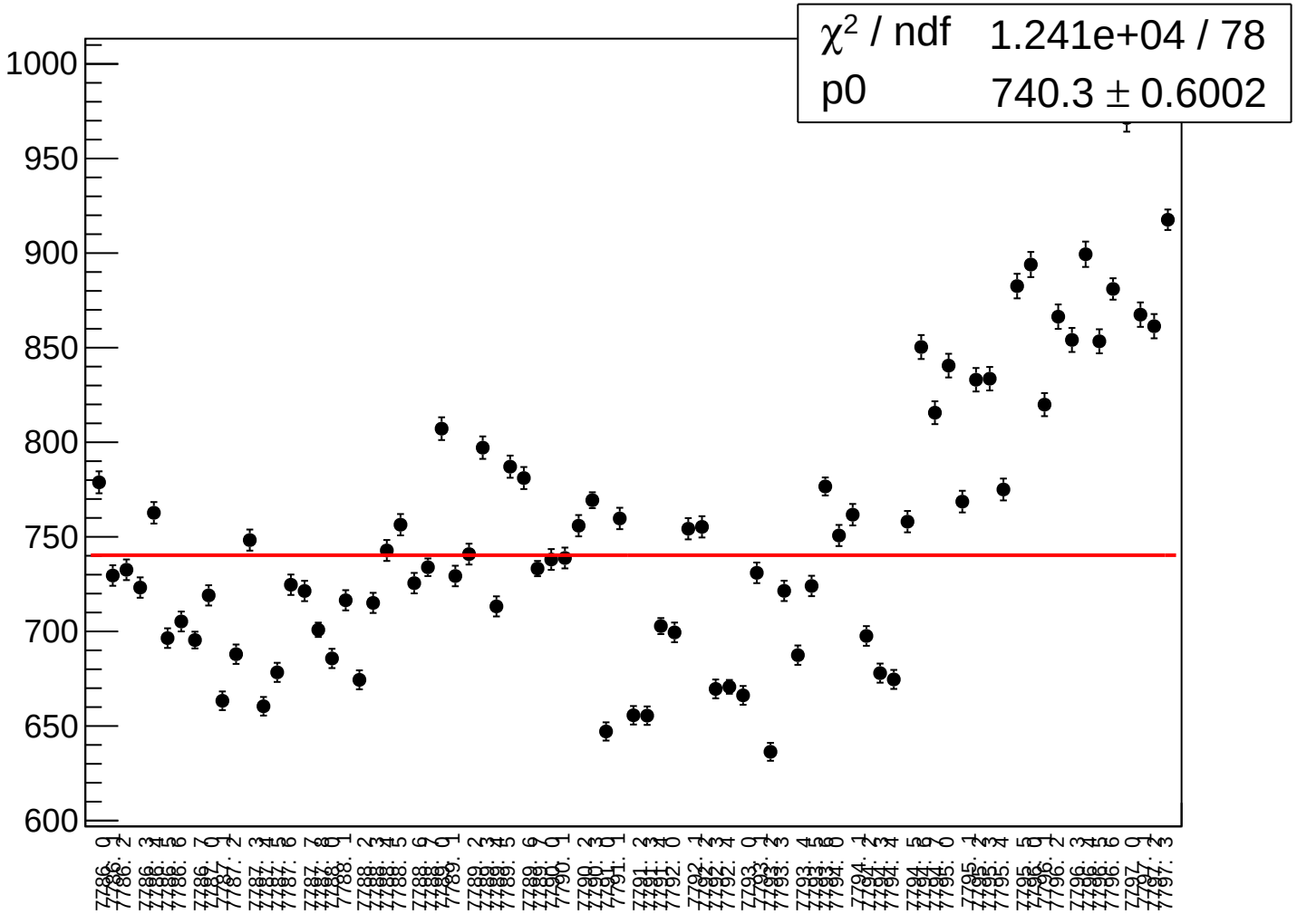

pull1D
Entries 79
Mean 0.0007388
Std Dev 0.9572
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

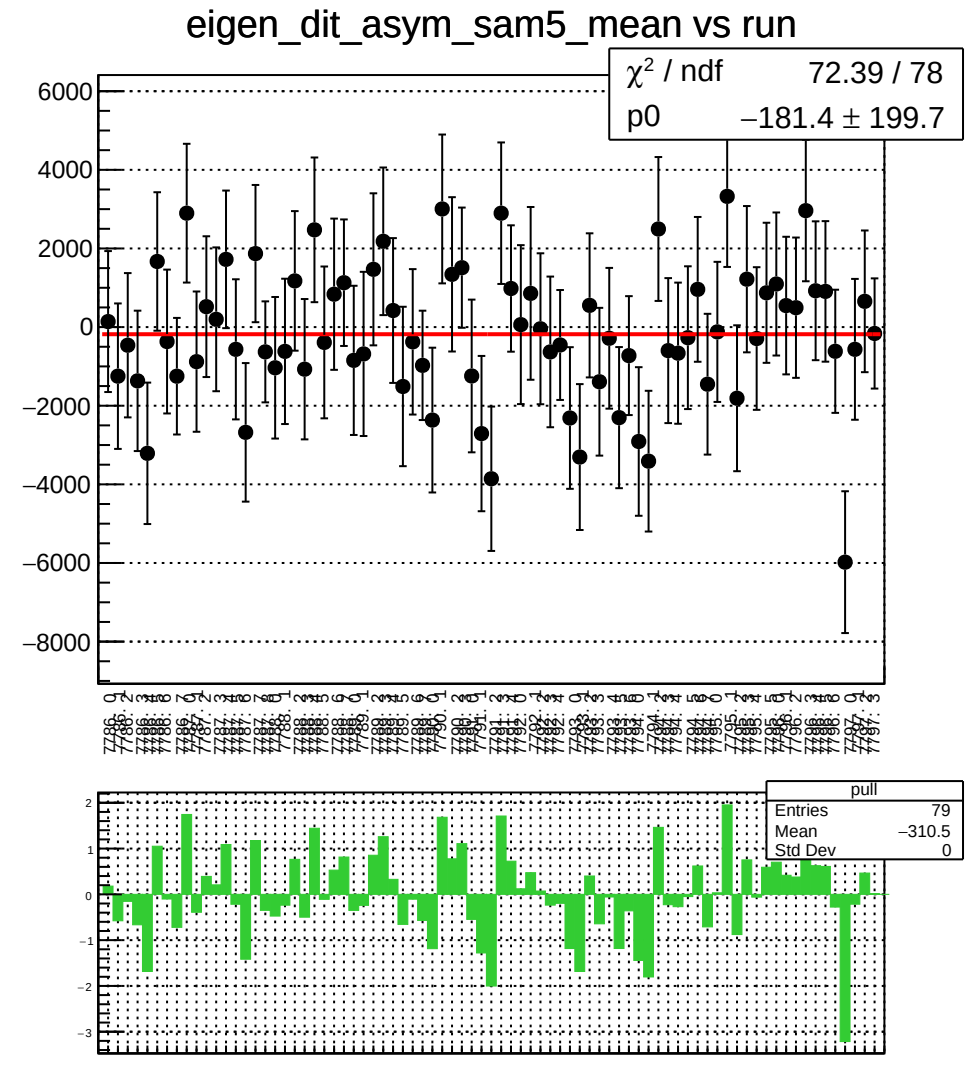

dit_asym_sam5_rms vs run
χ^2 / ndf 3024 / 78
p0 174.7 ± 0.1412
210
200
190
180
170
160

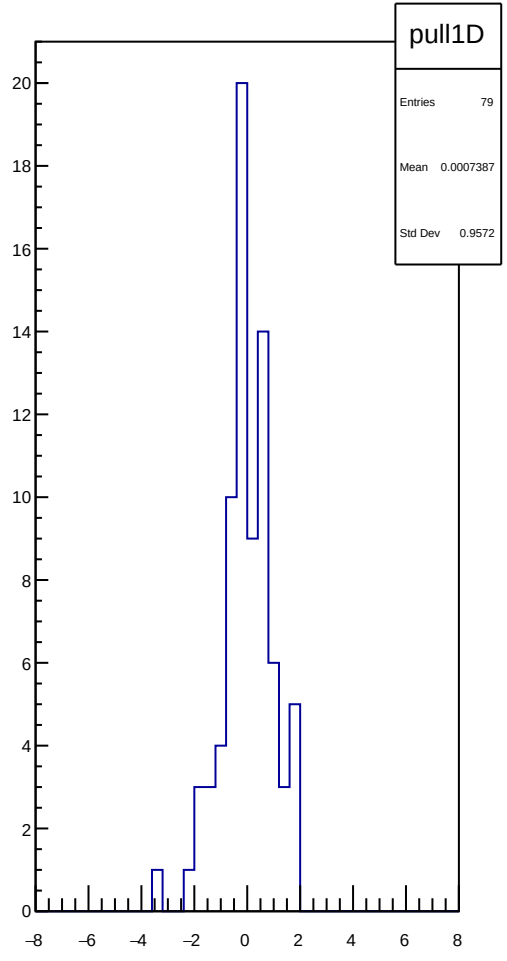

asym_sam5_dit_correction_mean vs run
χ² / ndf 73.57 / 78
p0 398.4 ± 848.8
pull
Entries 79
Mean −26.84
Std Dev 0

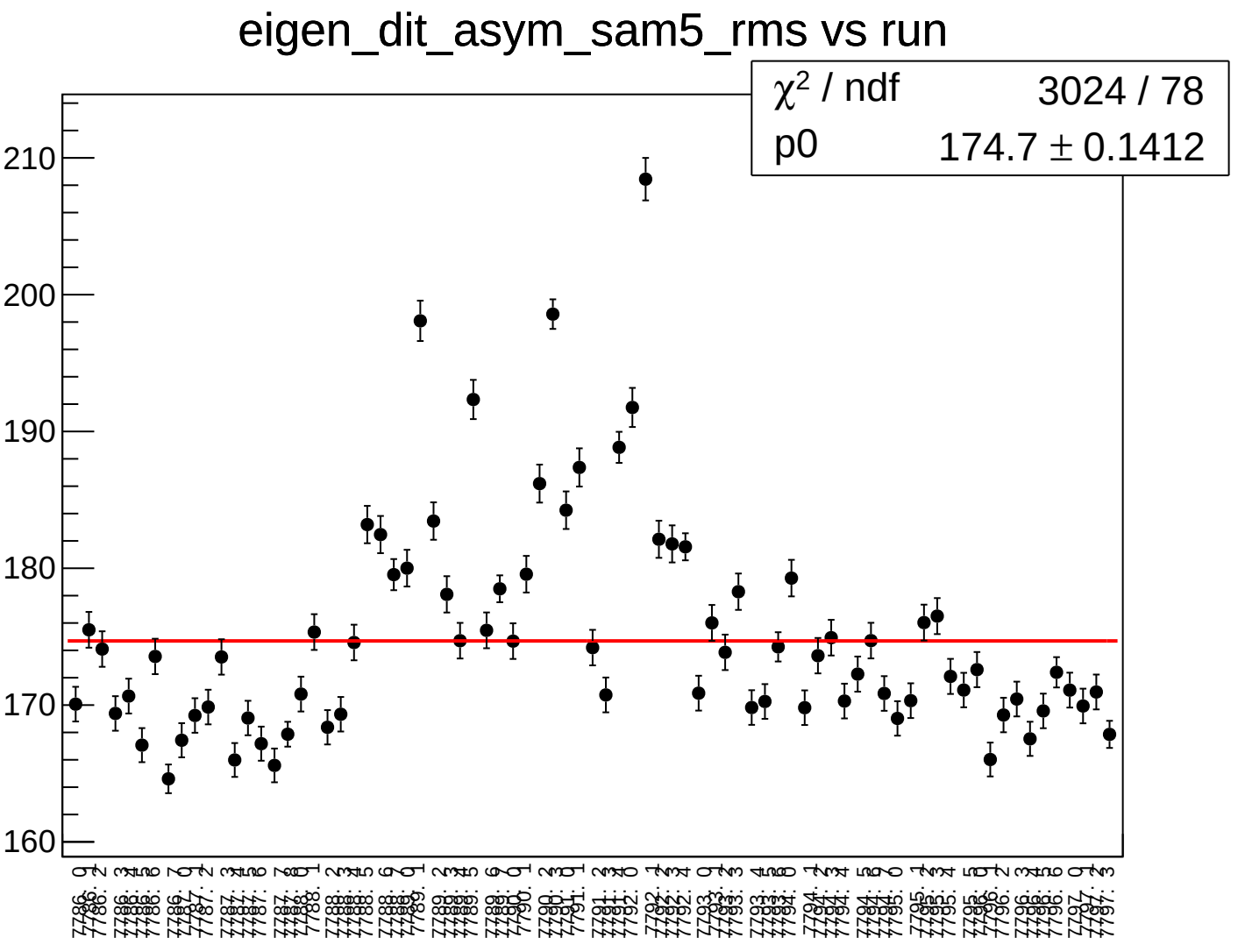

pull1D
Entries 79
Mean −0.01382
Std Dev 0.9649

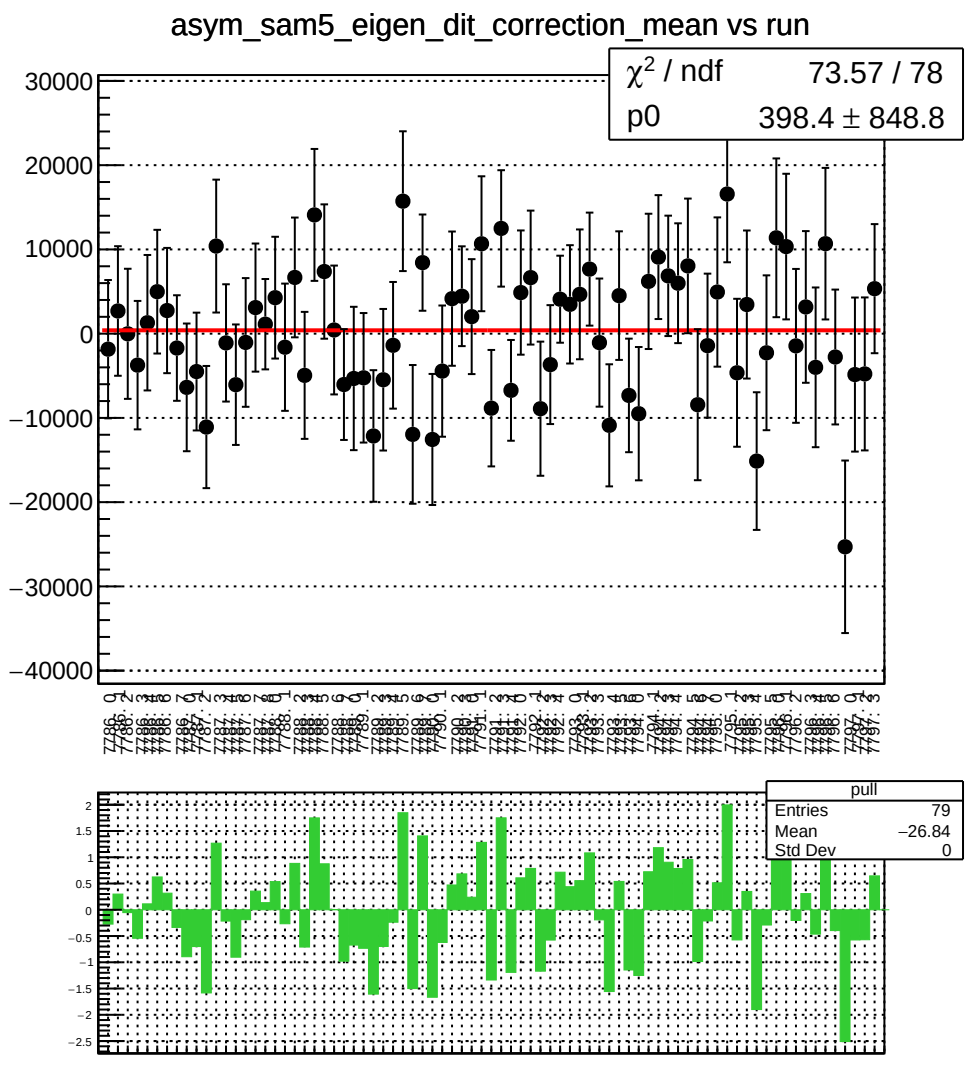
asym_sam5_dit_correction_rms vs run

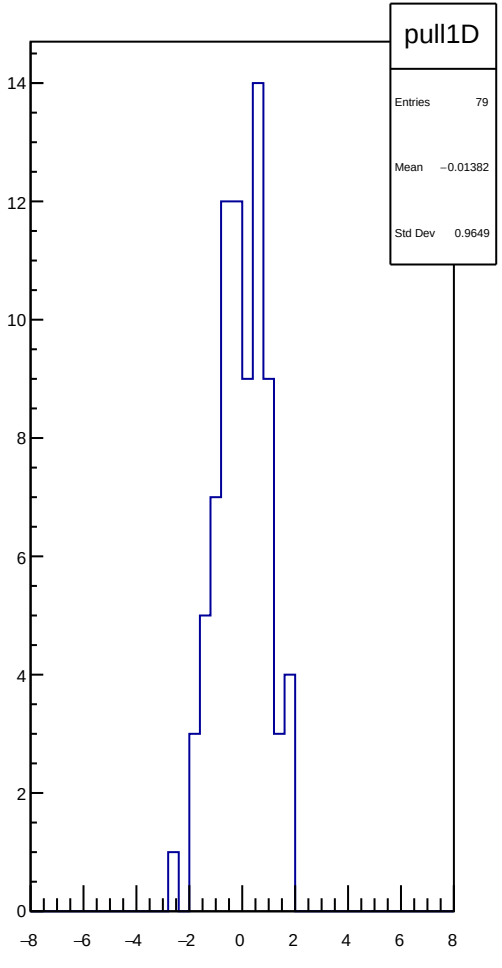


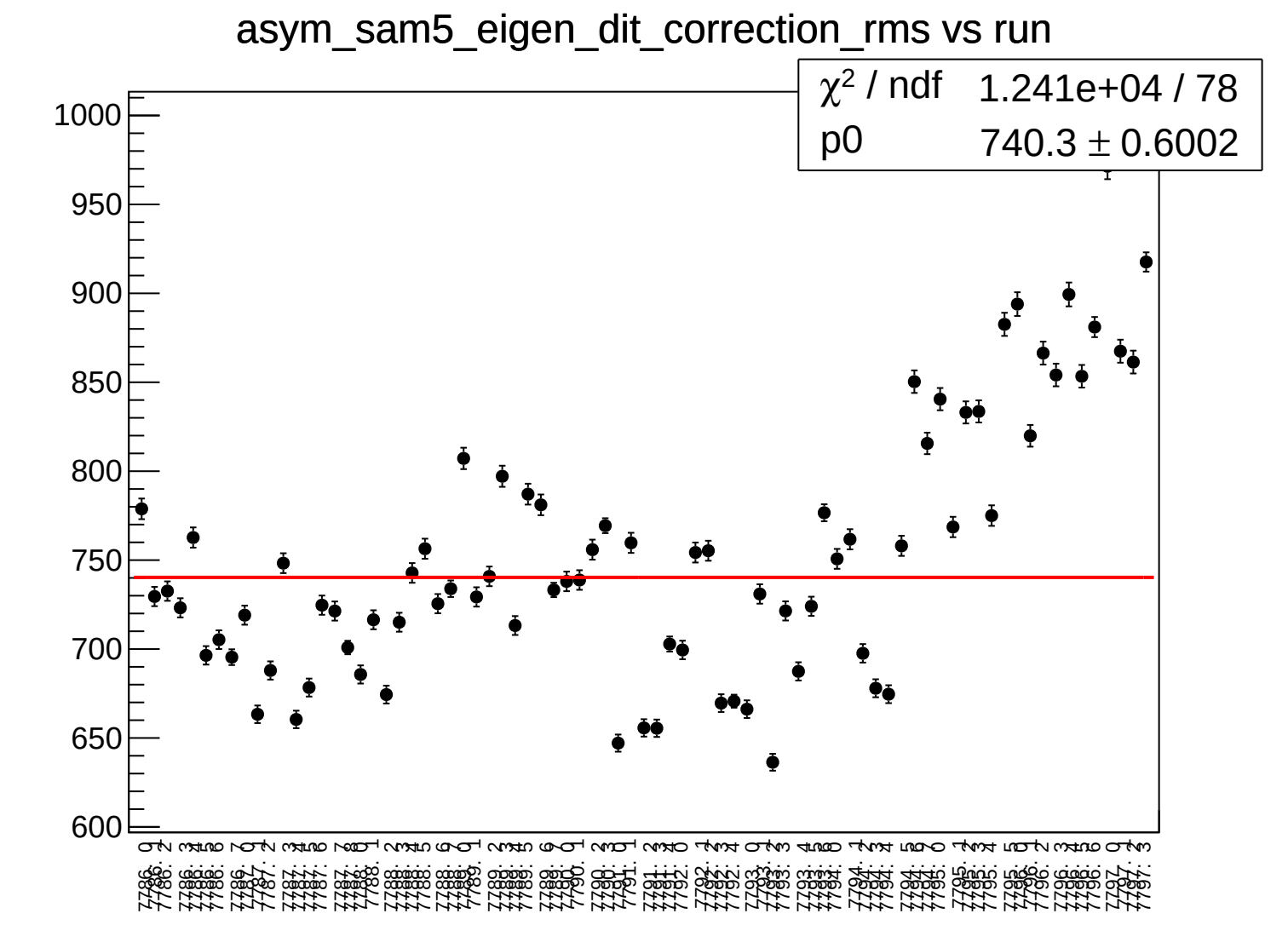

eigen_dit_asym_sam5_mean vs run
χ² / ndf 72.39 / 78
p0 −181.4 ± 199.7
pull
Entries 79
Mean −310.5
Std Dev 0

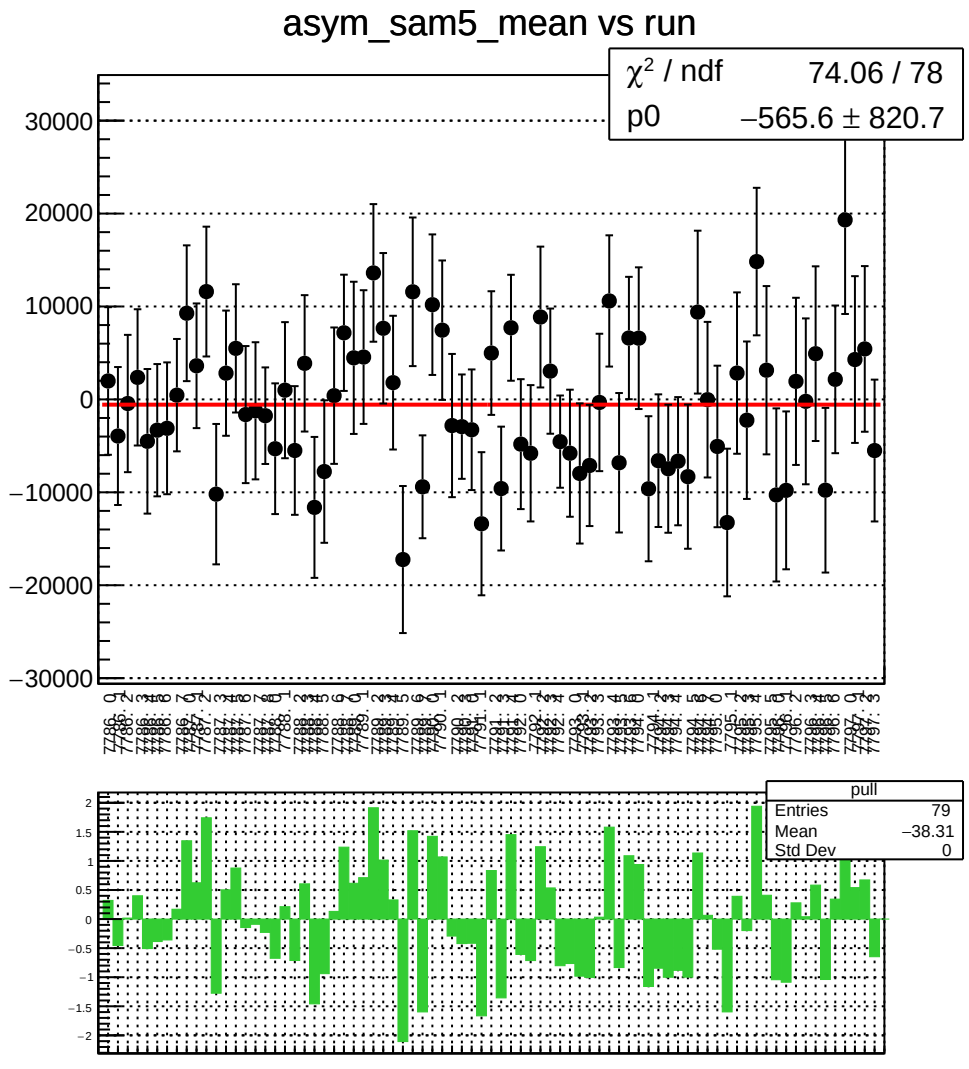

pull1D
Entries 79
Mean 0.0007387
Std Dev 0.9572

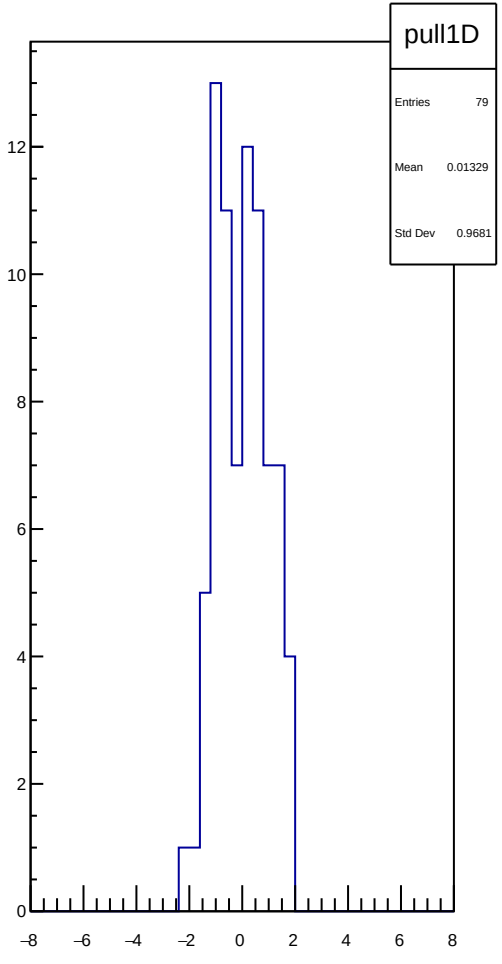

eigen_dit_asym_sam5_rms vs run
χ² / ndf 3024 / 78
p0 174.7 ± 0.1412
210
200
190
180
170
160

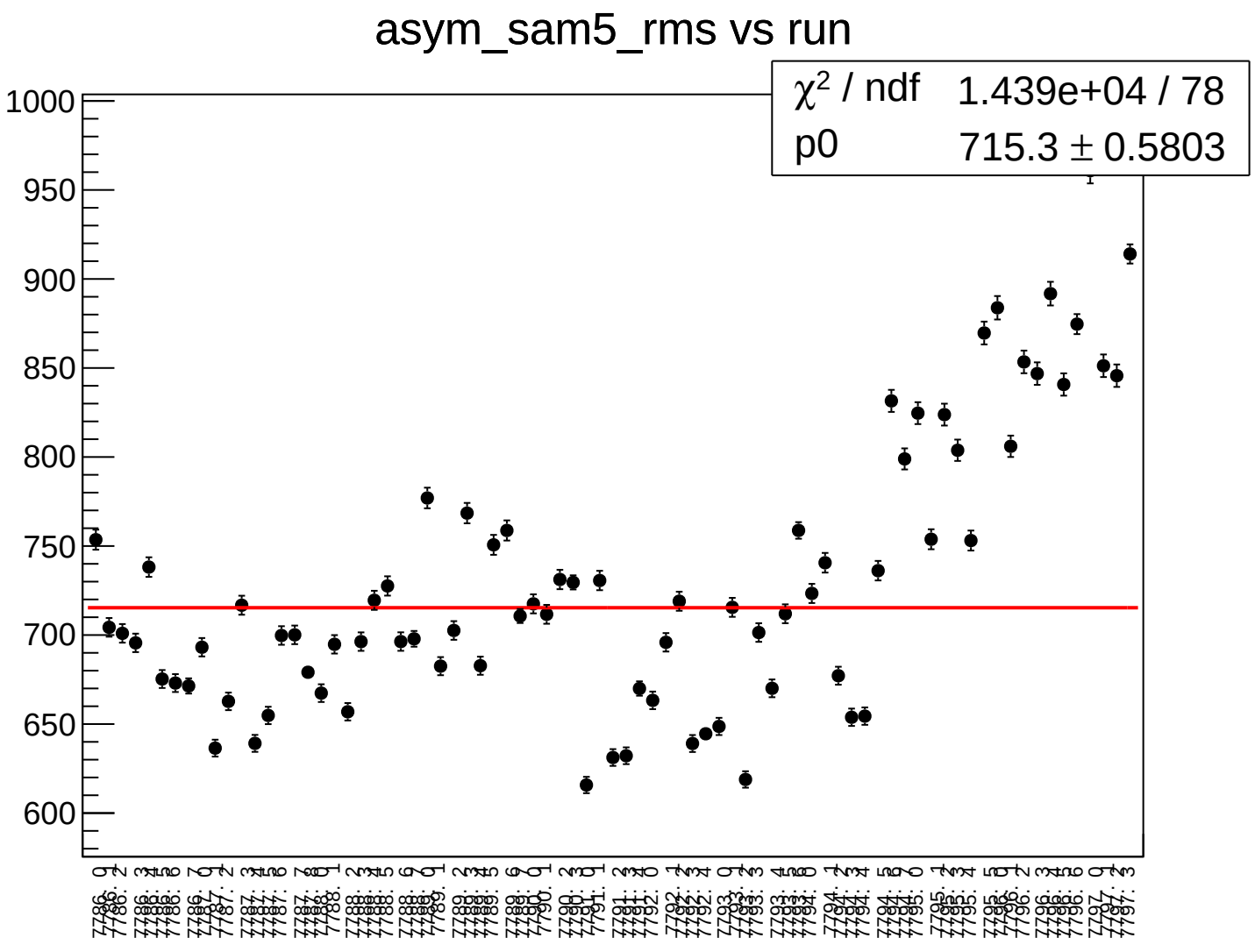

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 73.57 / 78
p0 398.4 ± 848.8
pull
Entries 79
Mean −26.84
Std Dev 0

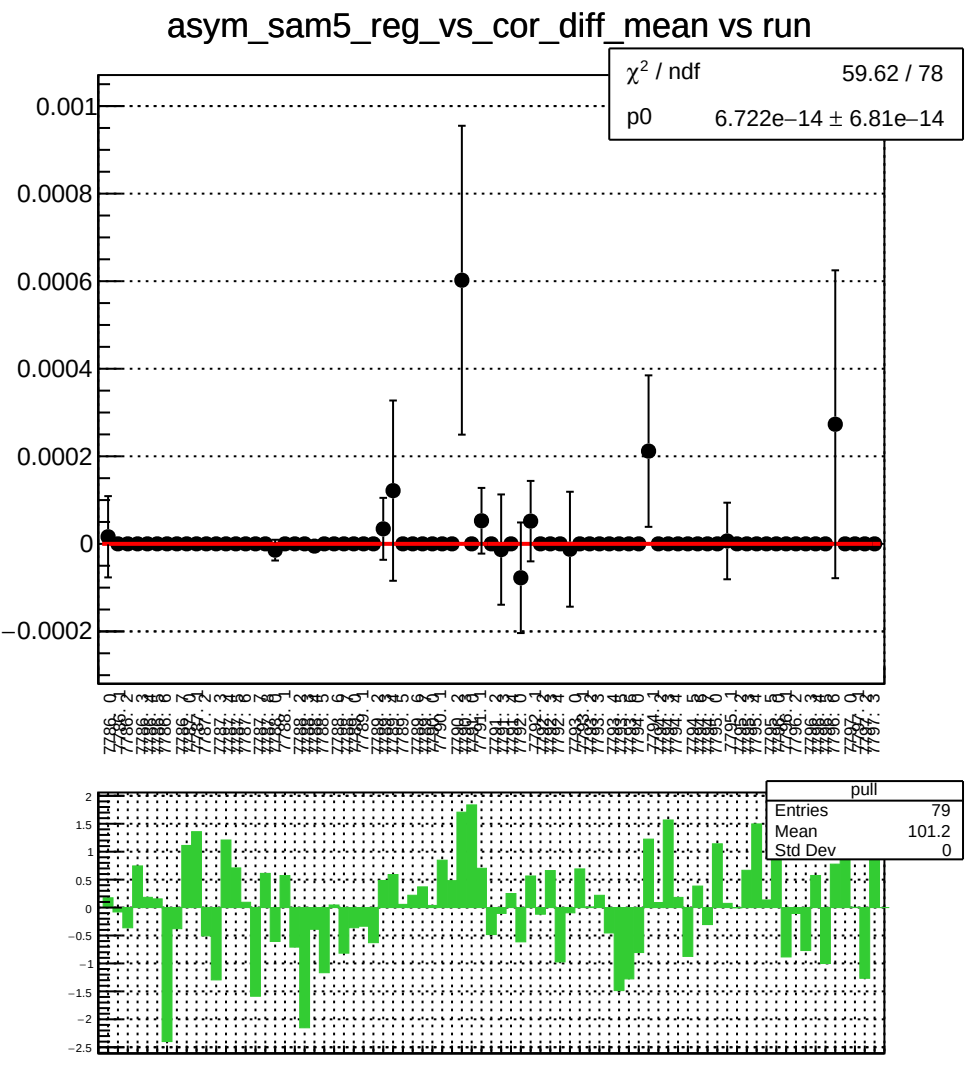

pull1D
Entries 79
Mean −0.01382
Std Dev 0.9649

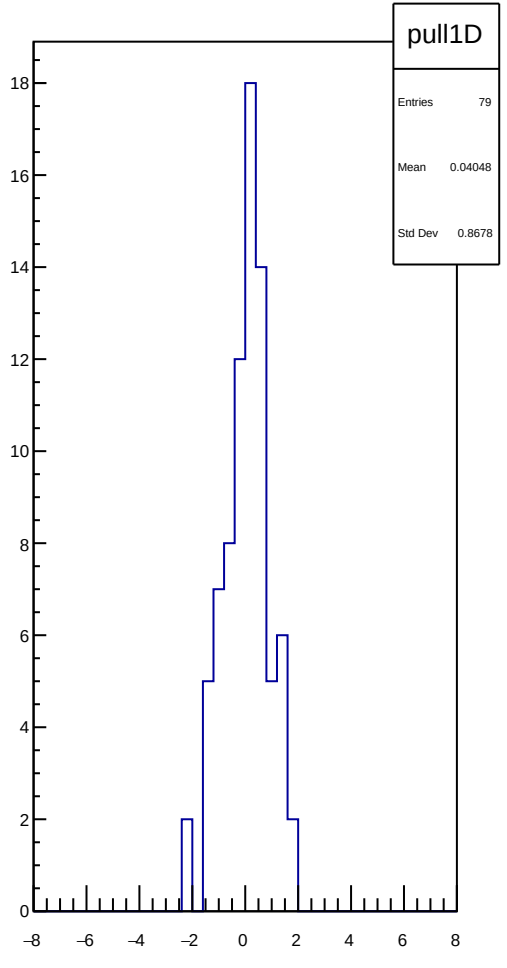

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.241e+04 / 78
p0 740.3 ± 0.6002
1000
950
900
850
800
750
700
650
600

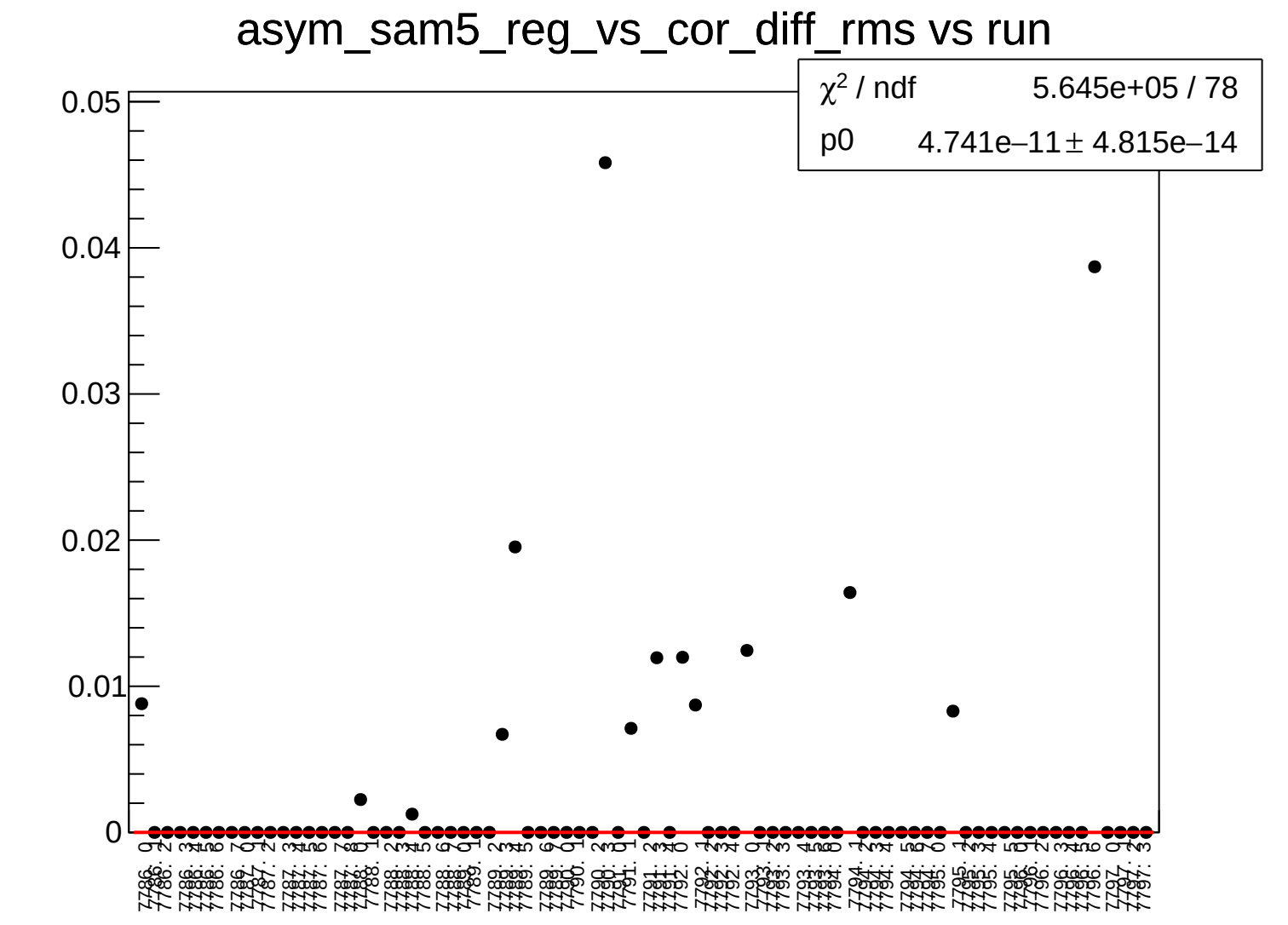

asym_sam5_mean vs run
χ² / ndf 74.06 / 78
p0 −565.6 ± 820.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −38.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

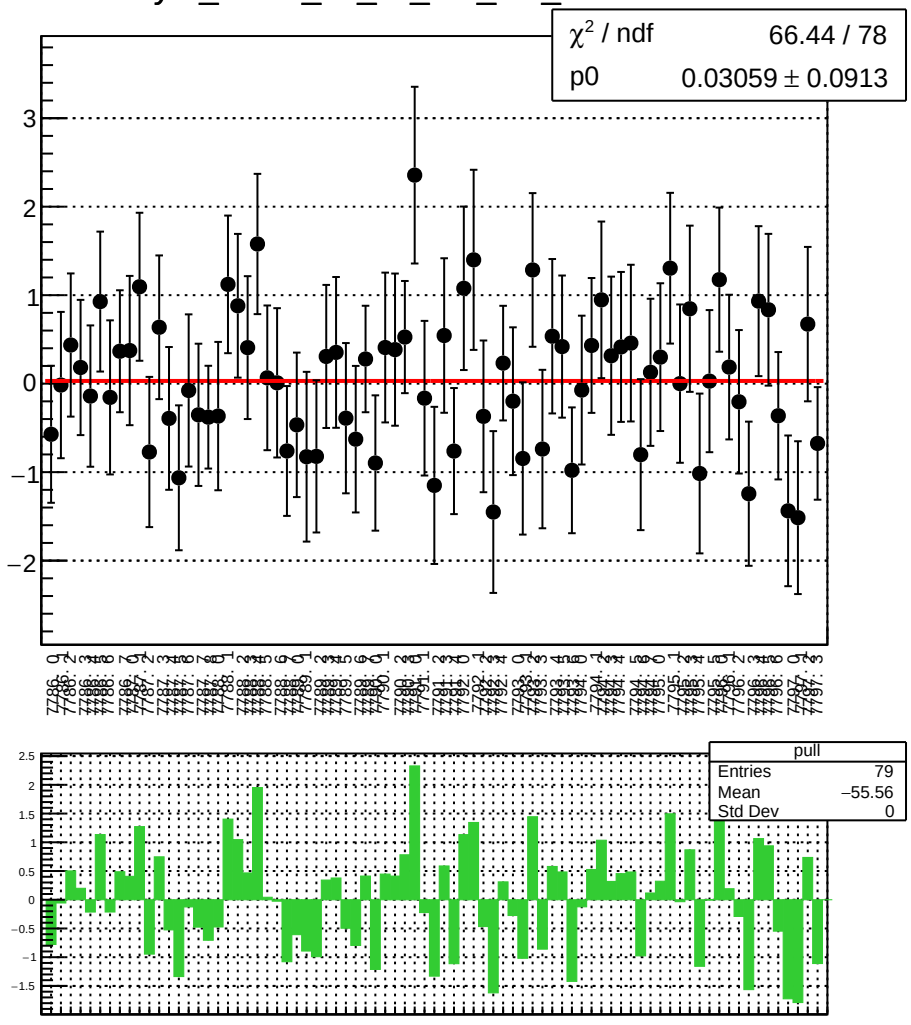

pull1D
Entries 79
Mean 0.01329
Std Dev 0.9681
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

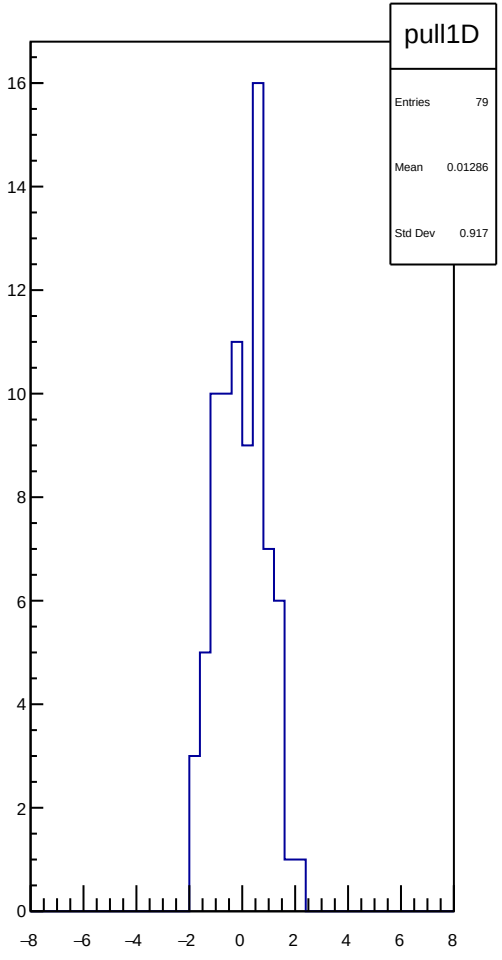

asym_sam5_rms vs run
χ² / ndf 1.439e+04 / 78
p0 715.3 ± 0.5803
1000
950
900
850
800
750
700
650
600

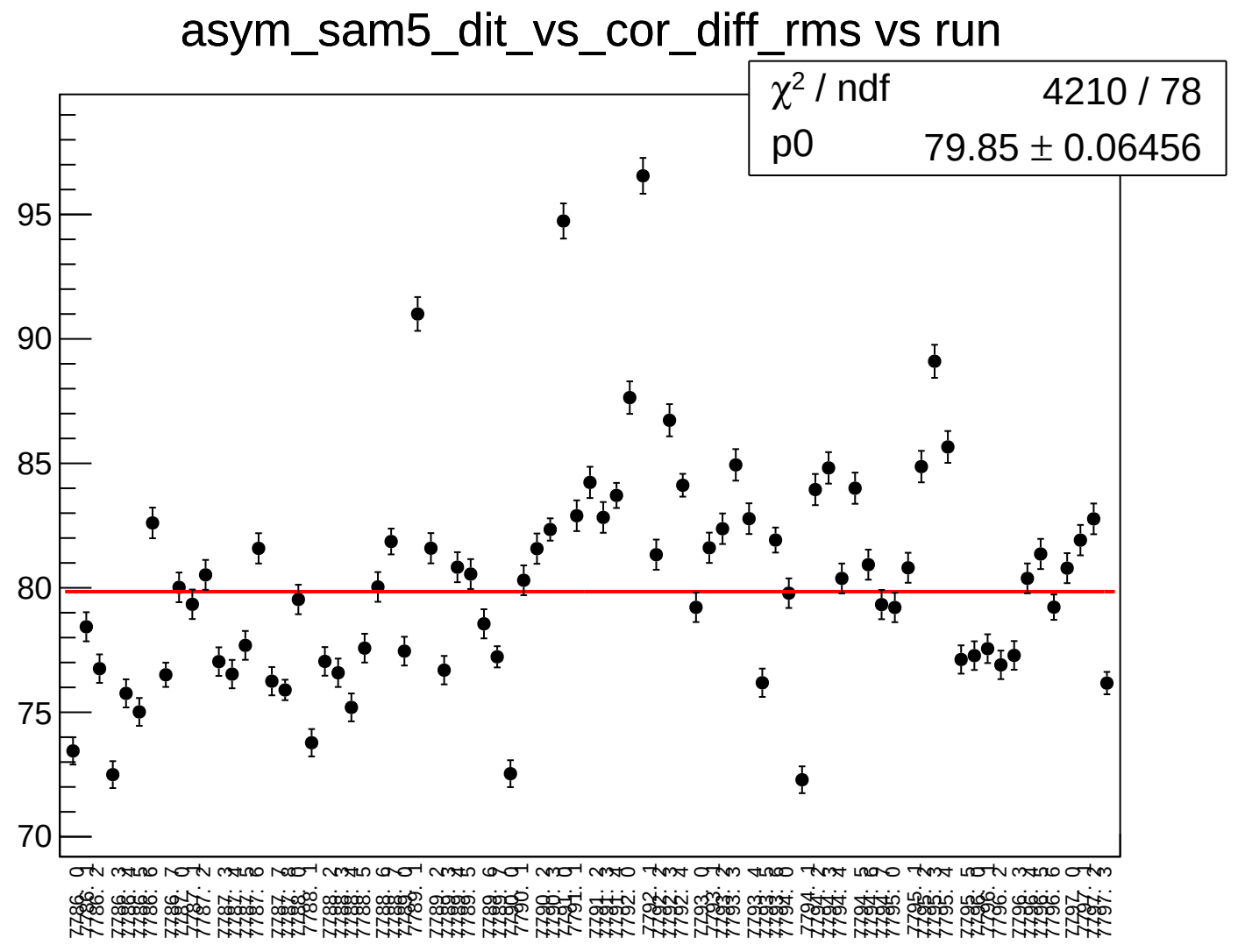

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 59.62 / 78
p0 6.722e−14 ± 6.81e−14
pull
Entries 79
Mean 101.2
Std Dev 0

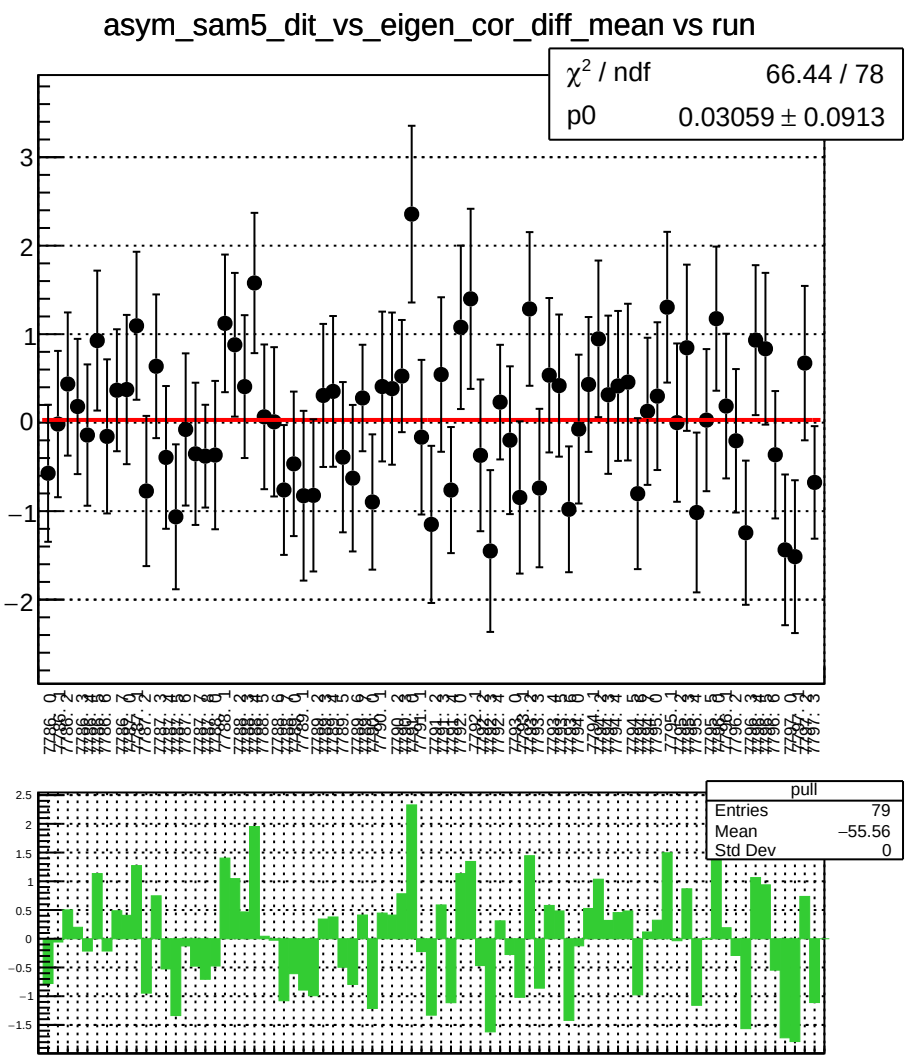

pull1D
Entries 79
Mean 0.04048
Std Dev 0.8678

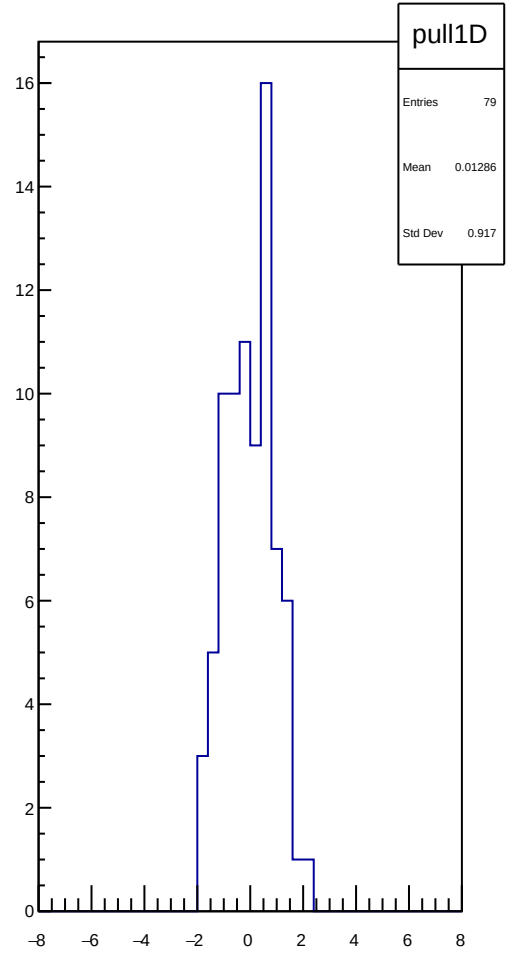

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 5.645e+05 / 78
p0 4.741e−11 ± 4.815e−14
0.05
0.04
0.03
0.02
0.01
0

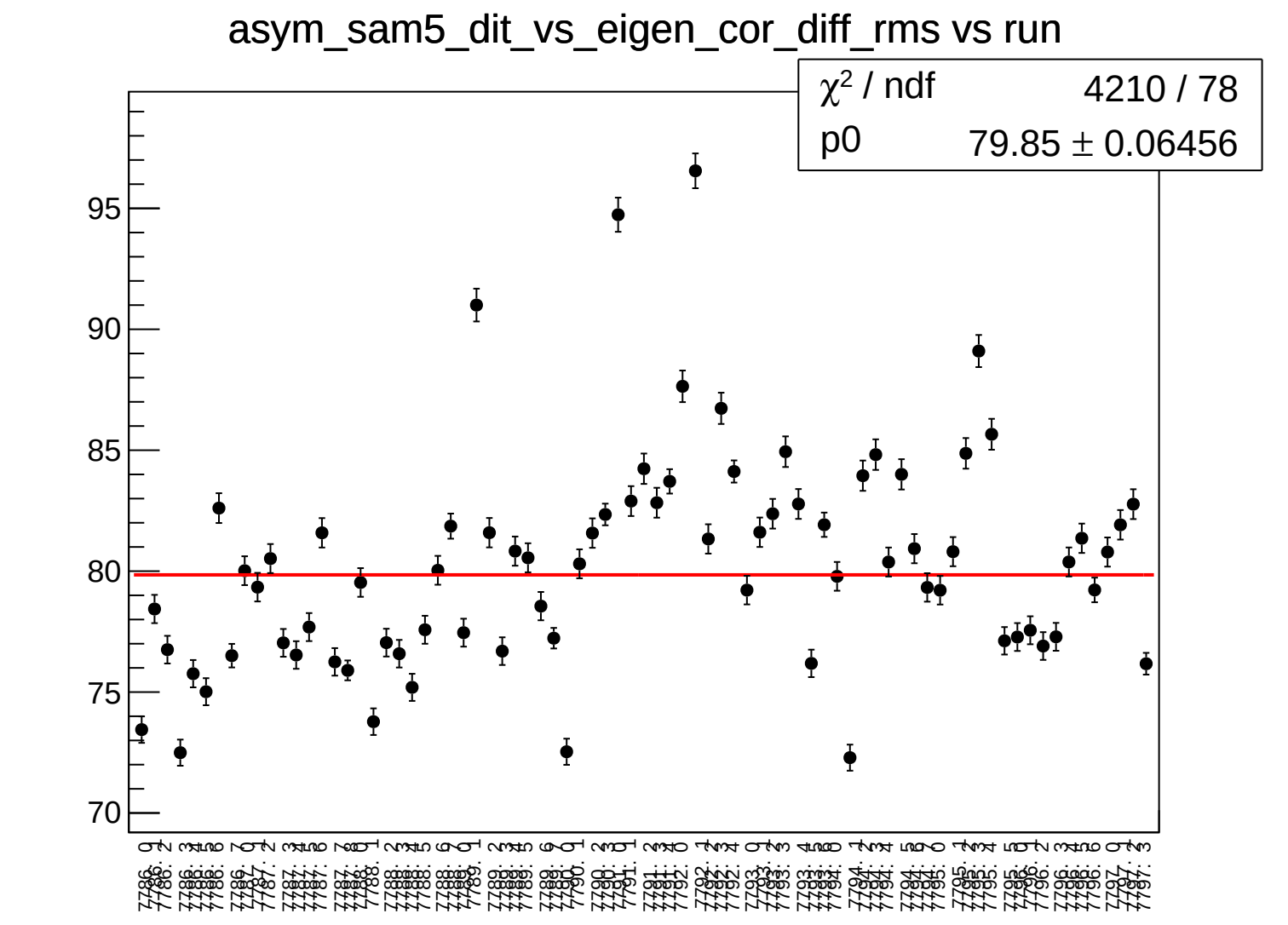

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 66.44 / 78
p0 0.03059 ± 0.0913
pull
Entries 79
Mean −55.56
Std Dev 0

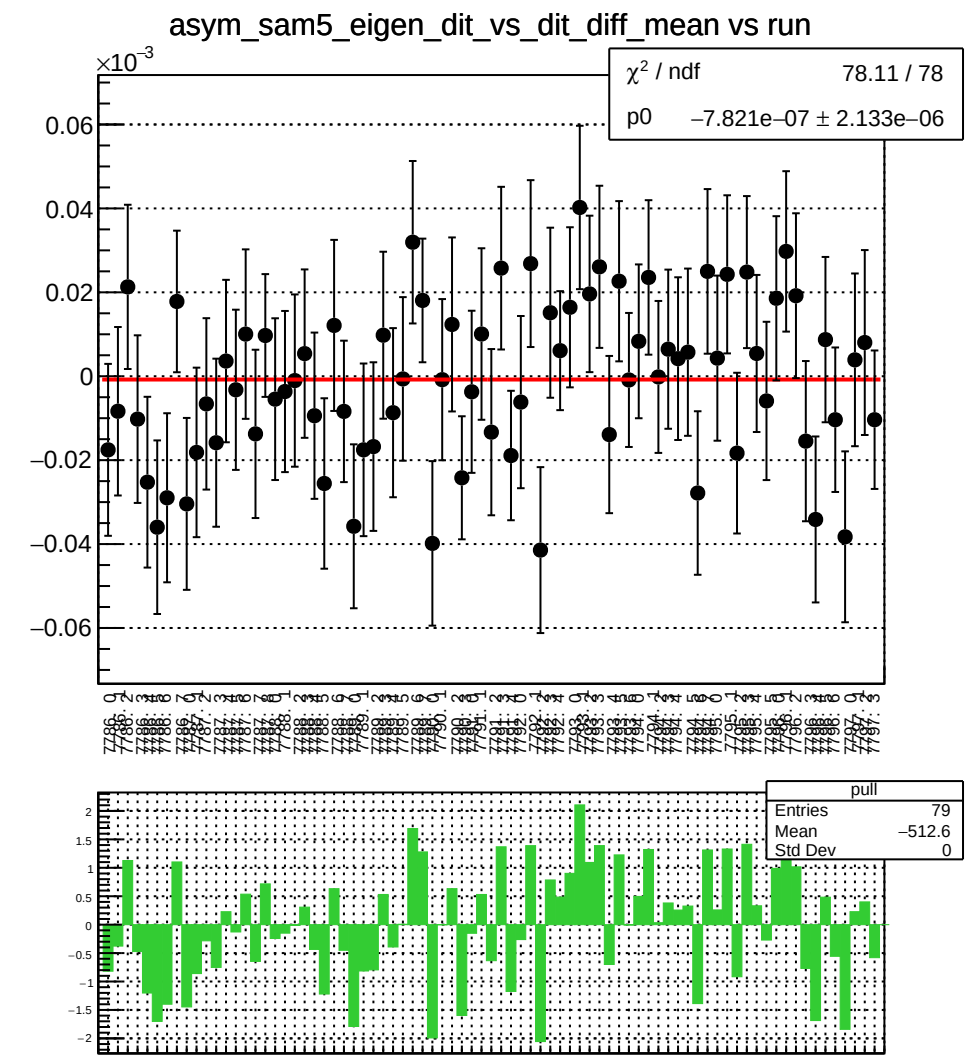

pull1D
Entries 79
Mean 0.01286
Std Dev 0.917

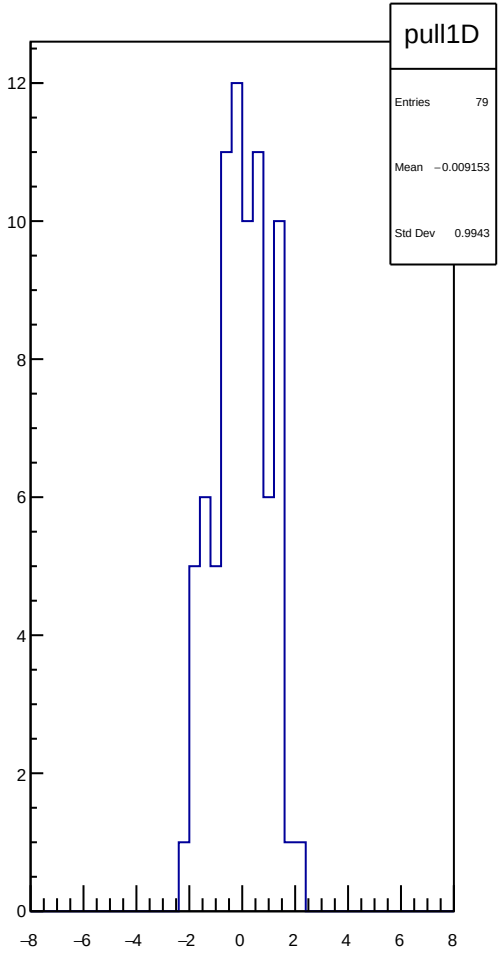

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 4210 / 78
p0 79.85 ± 0.06456
95
90
85
80
75
70

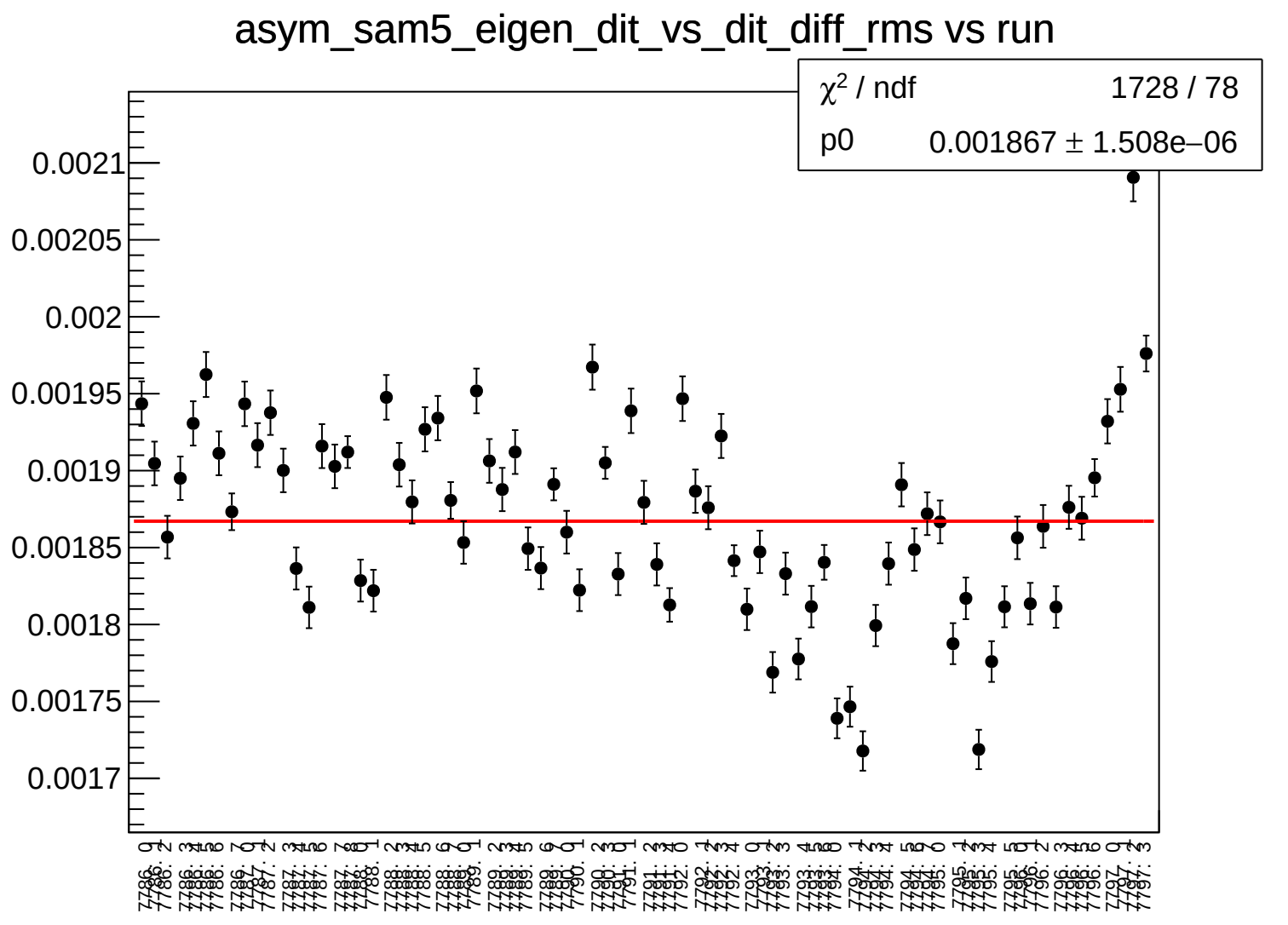

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.44 / 78
p0 0.03059 ± 0.0913
pull
Entries 79
Mean −55.56
Std Dev 0

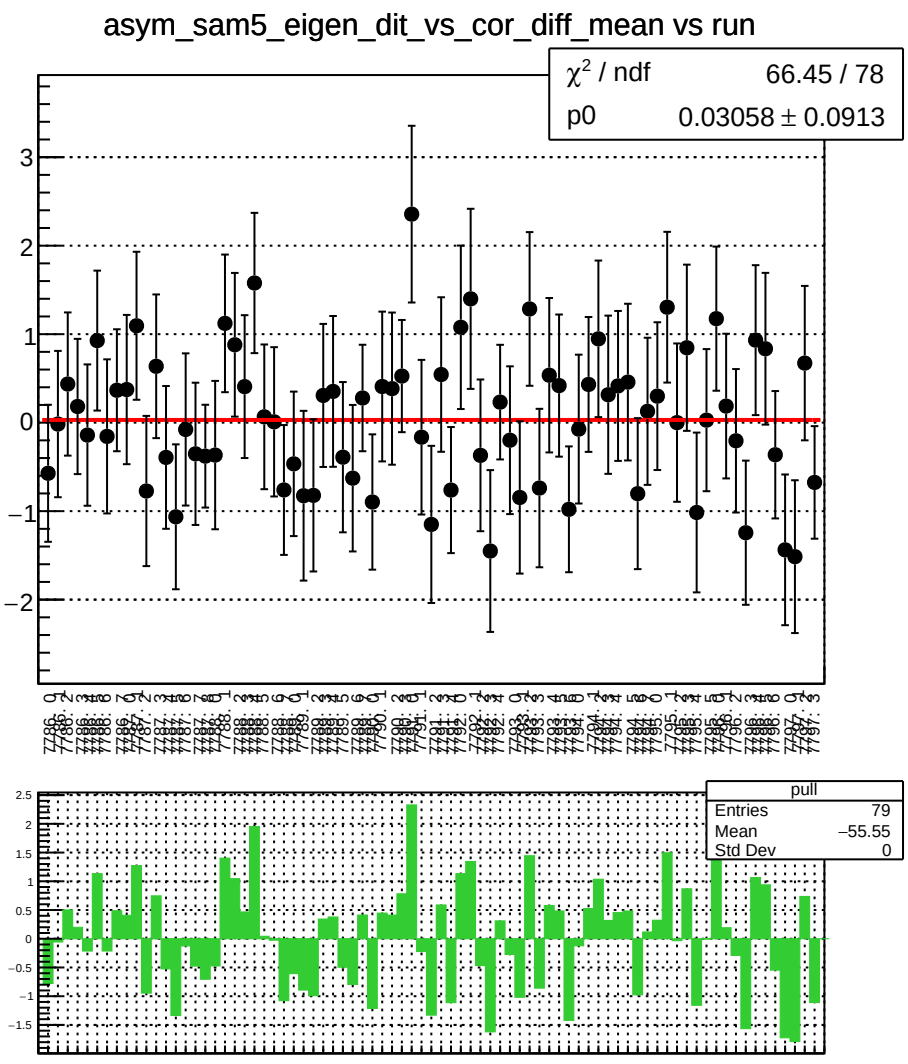

pull1D
Entries 79
Mean 0.01286
Std Dev 0.917

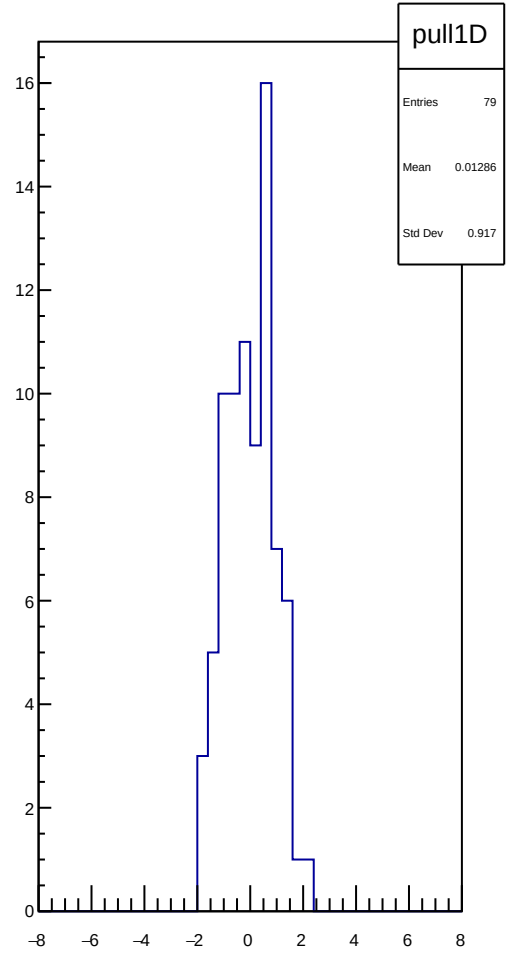

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4210 / 78
p0 79.85 ± 0.06456
95
90
85
80
75
70

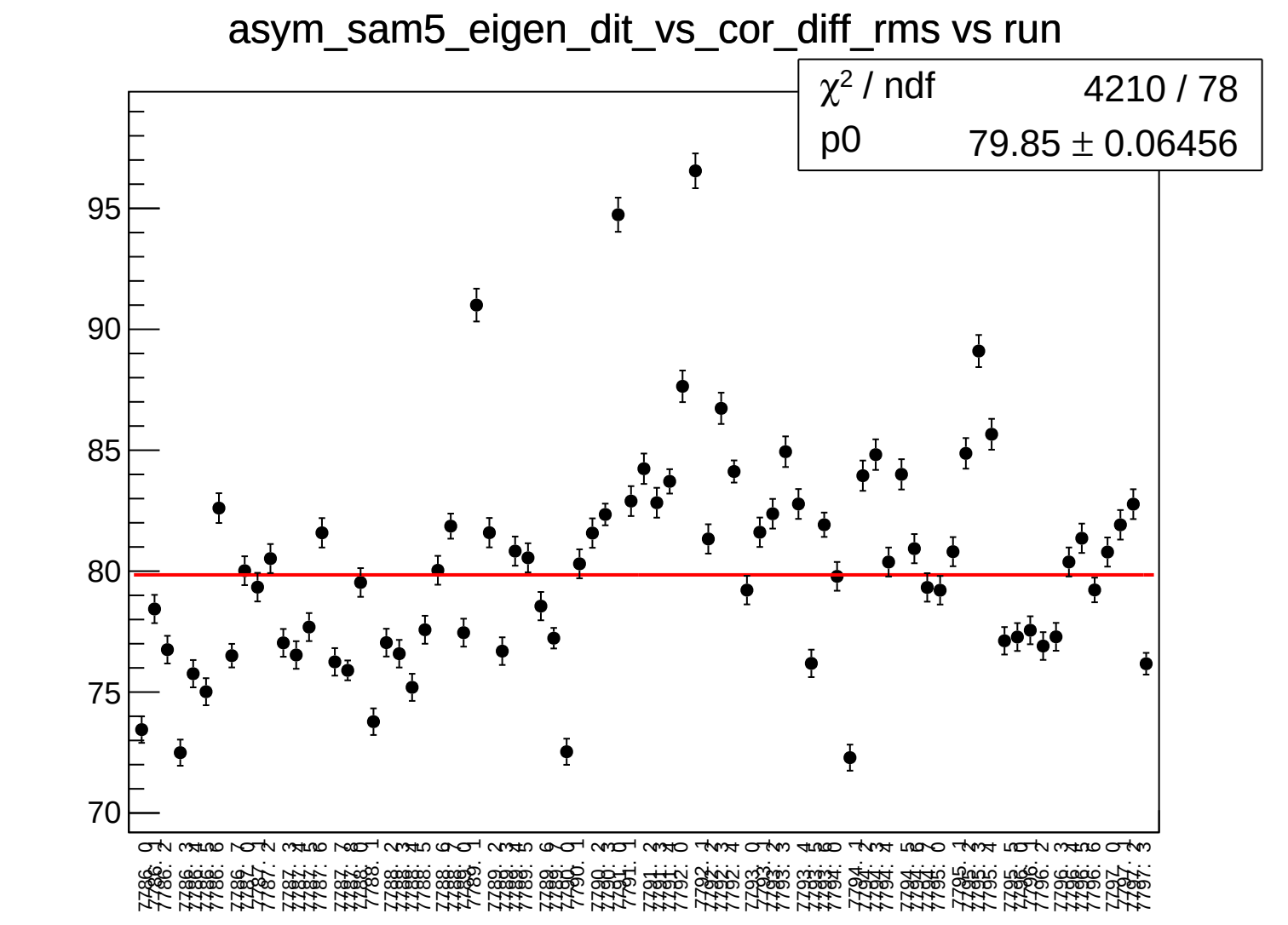

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.11 / 78
p0 −7.821e−07 ± 2.133e−06
pull
Entries 79
Mean −512.6
Std Dev 0

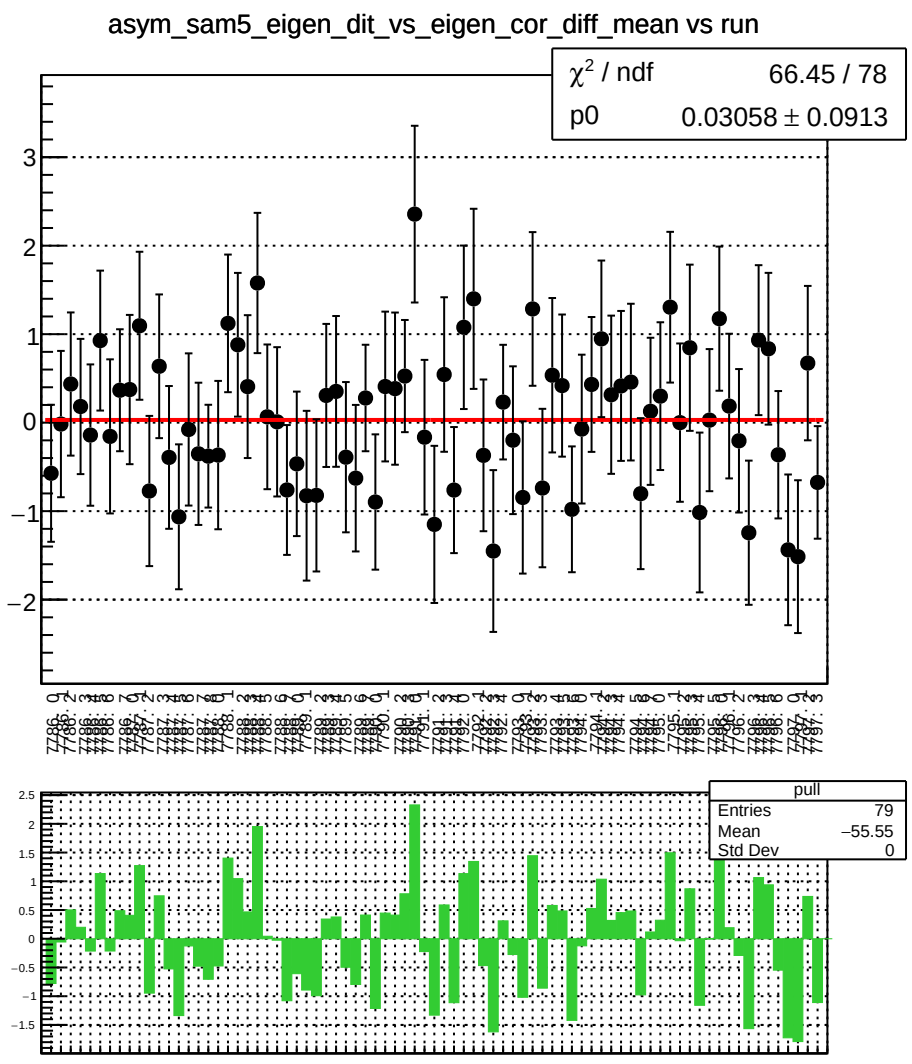

pull1D
Entries 79
Mean −0.009153
Std Dev 0.9943

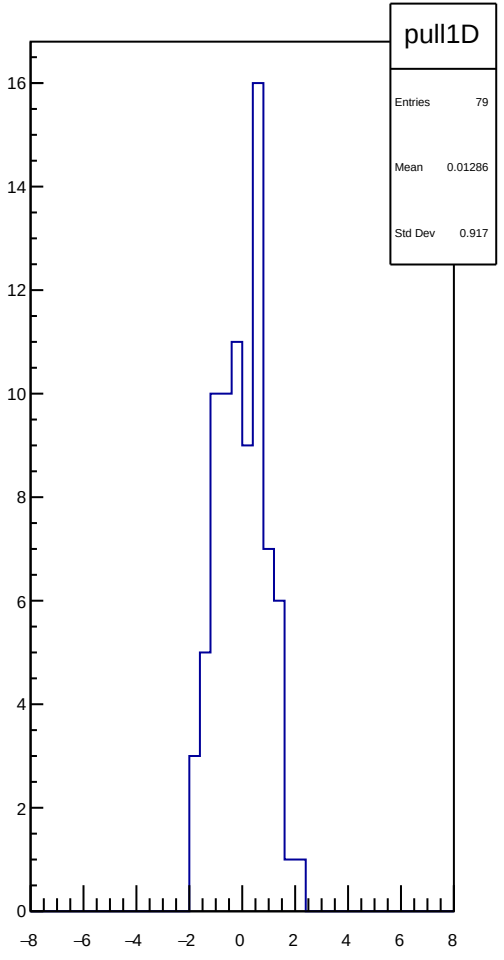

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1728 / 78
p0 0.001867 ± 1.508e−06
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017

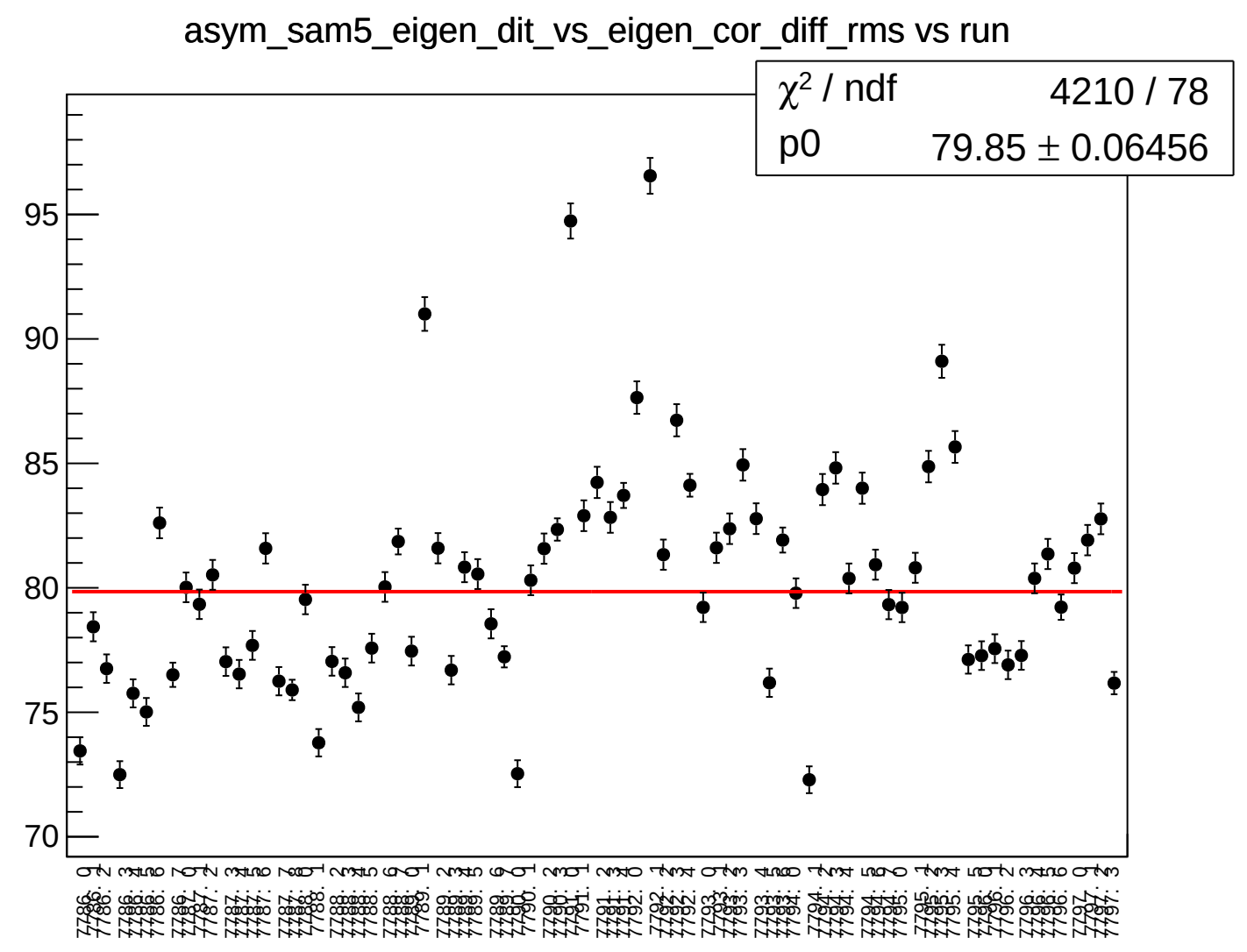

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.45 / 78
p0 0.03058 ± 0.0913
pull
Entries 79
Mean −55.55
Std Dev 0

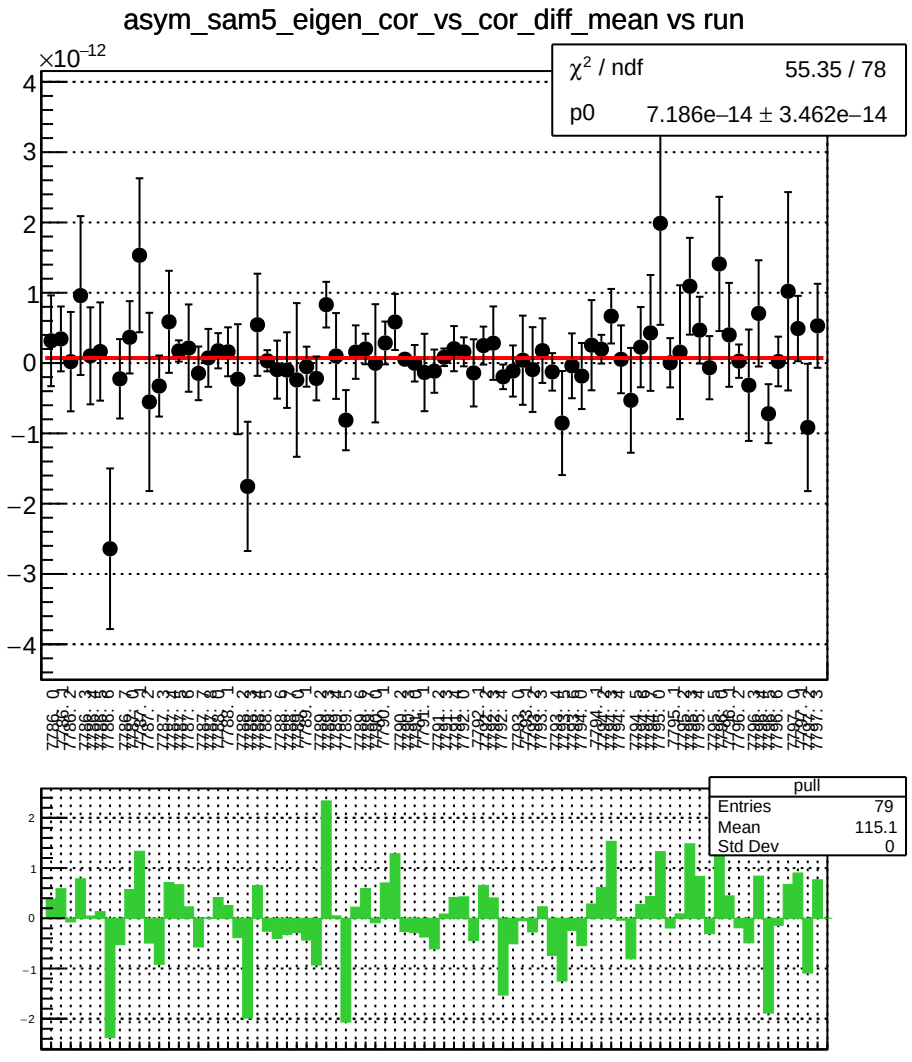

pull1D
Entries 79
Mean 0.01286
Std Dev 0.917

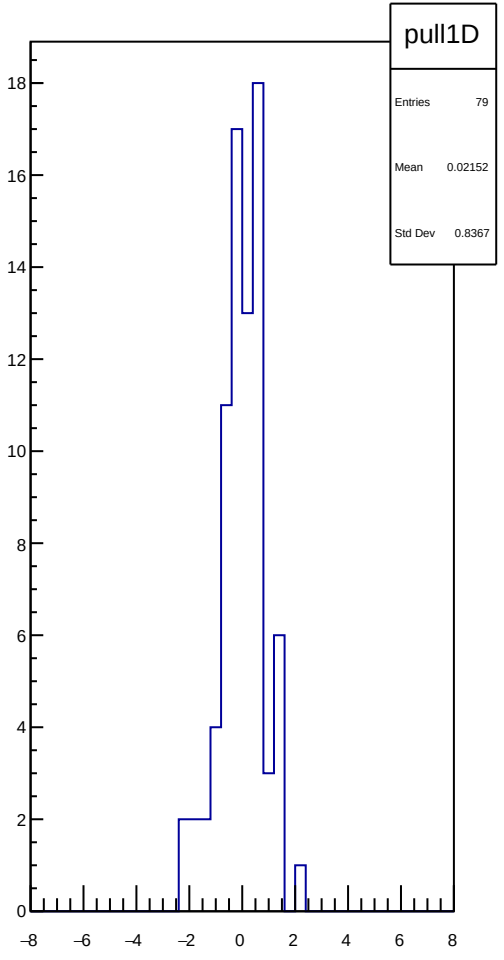

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4210 / 78
p0 79.85 ± 0.06456
95
90
85
80
75
70

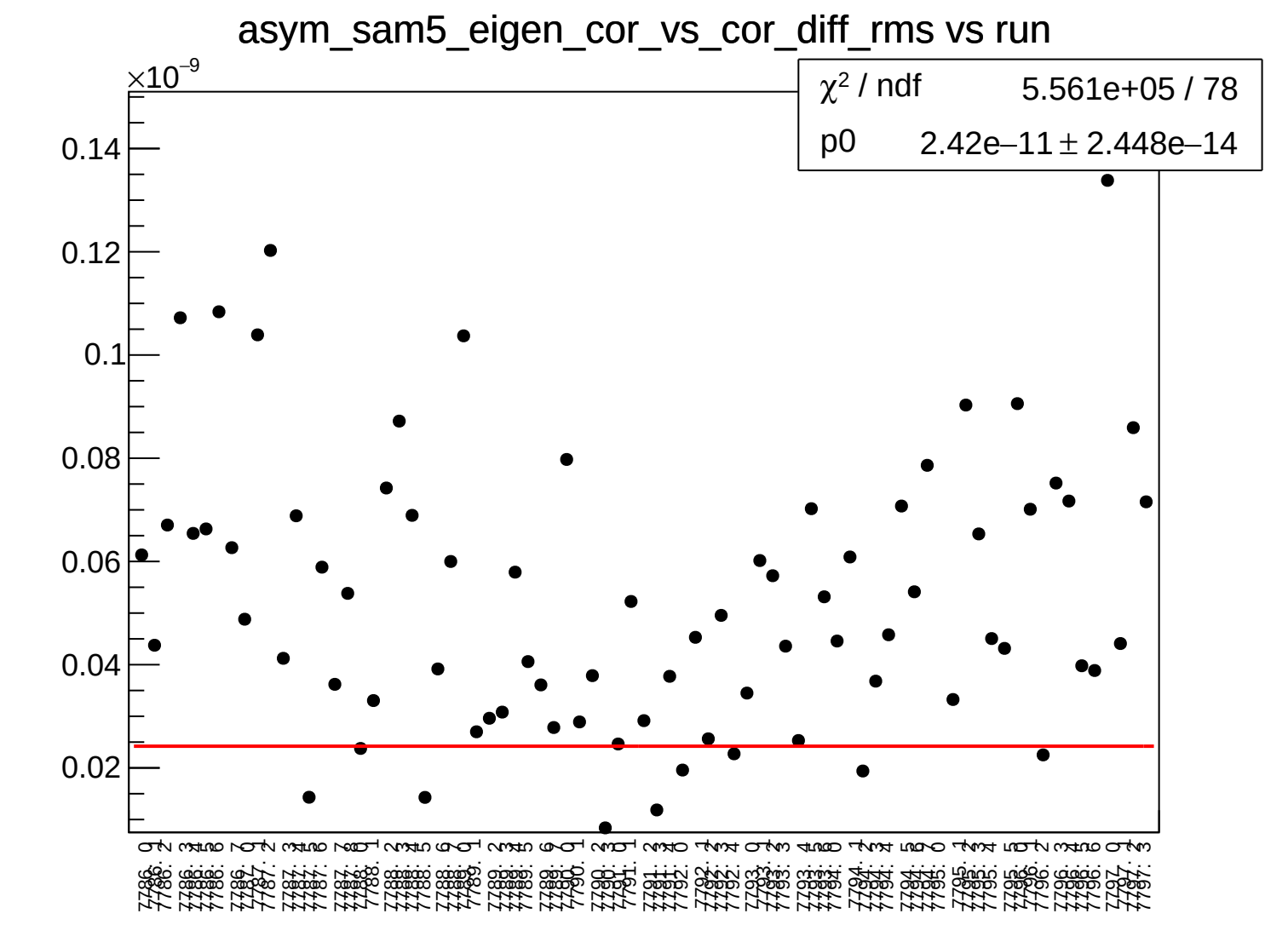

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.45 / 78
p0 0.03058 ± 0.0913
pull
Entries 79
Mean −55.55
Std Dev 0

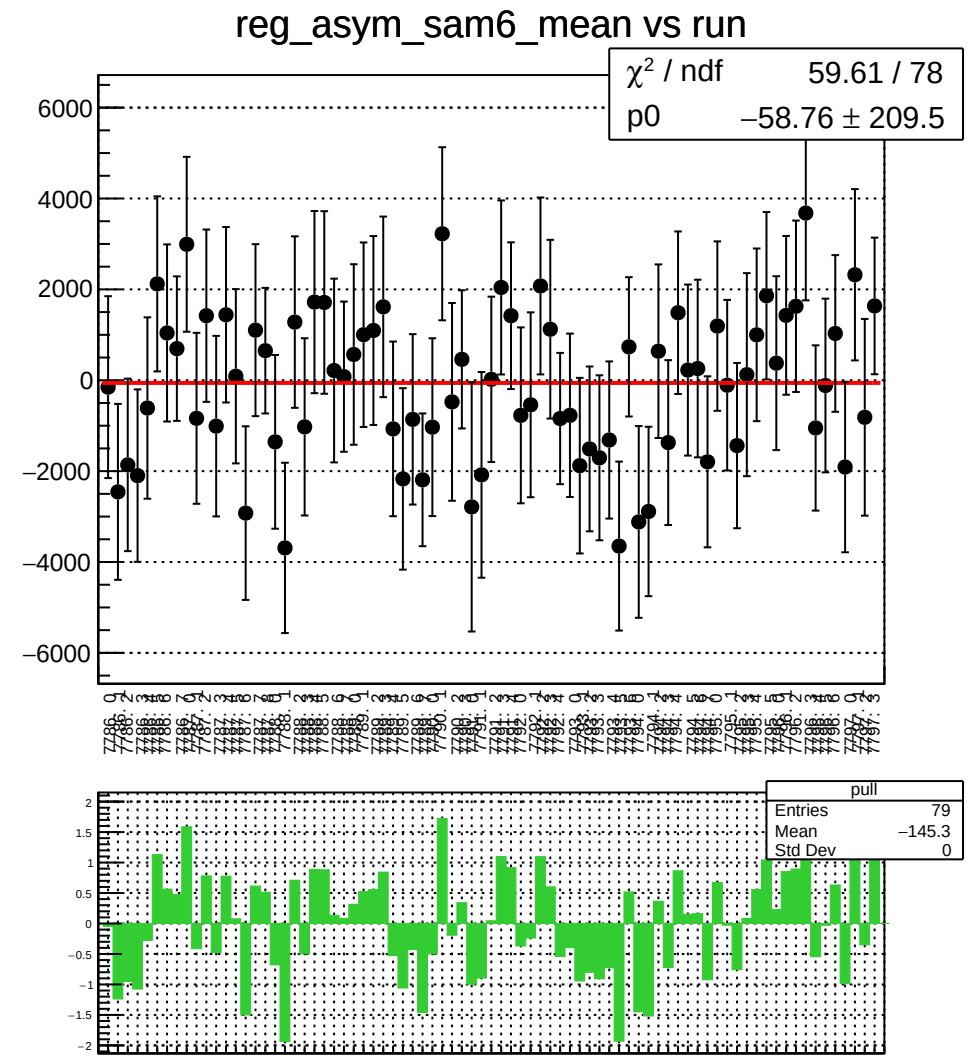

pull1D
Entries 79
Mean 0.01286
Std Dev 0.917

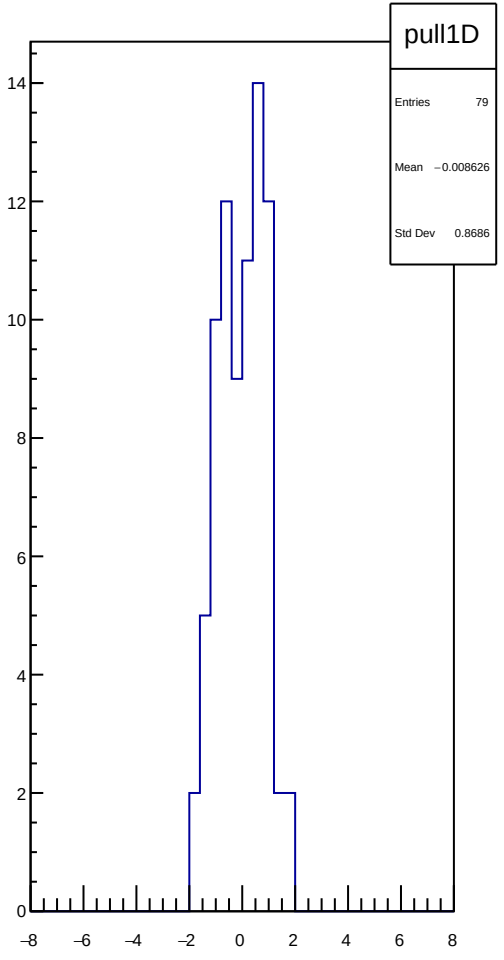

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4210 / 78
p0 79.85 ± 0.06456
95
90
85
80
75
70

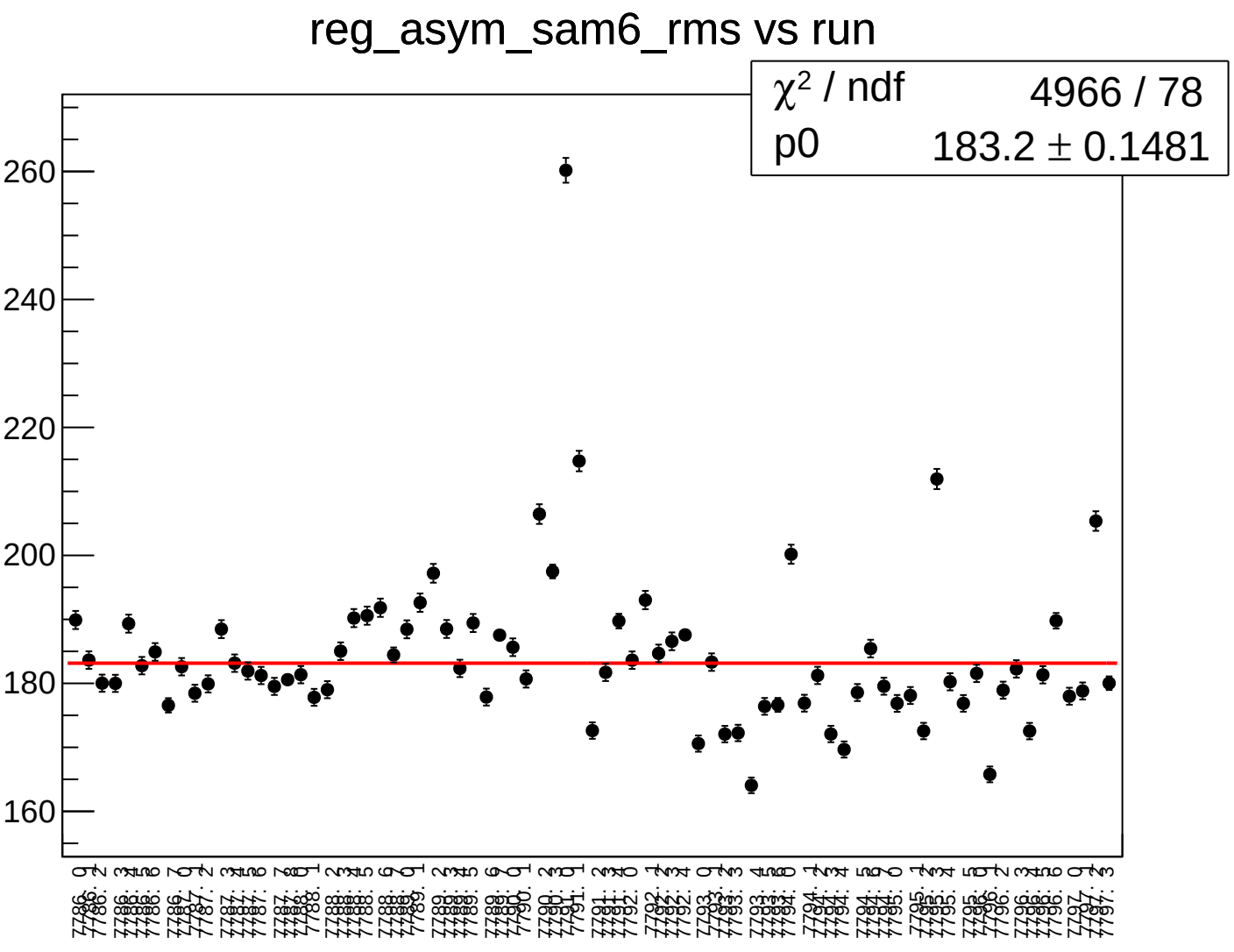

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 55.35 / 78
p0 7.186e−14 ± 3.462e−14
pull
Entries 79
Mean 115.1
Std Dev 0

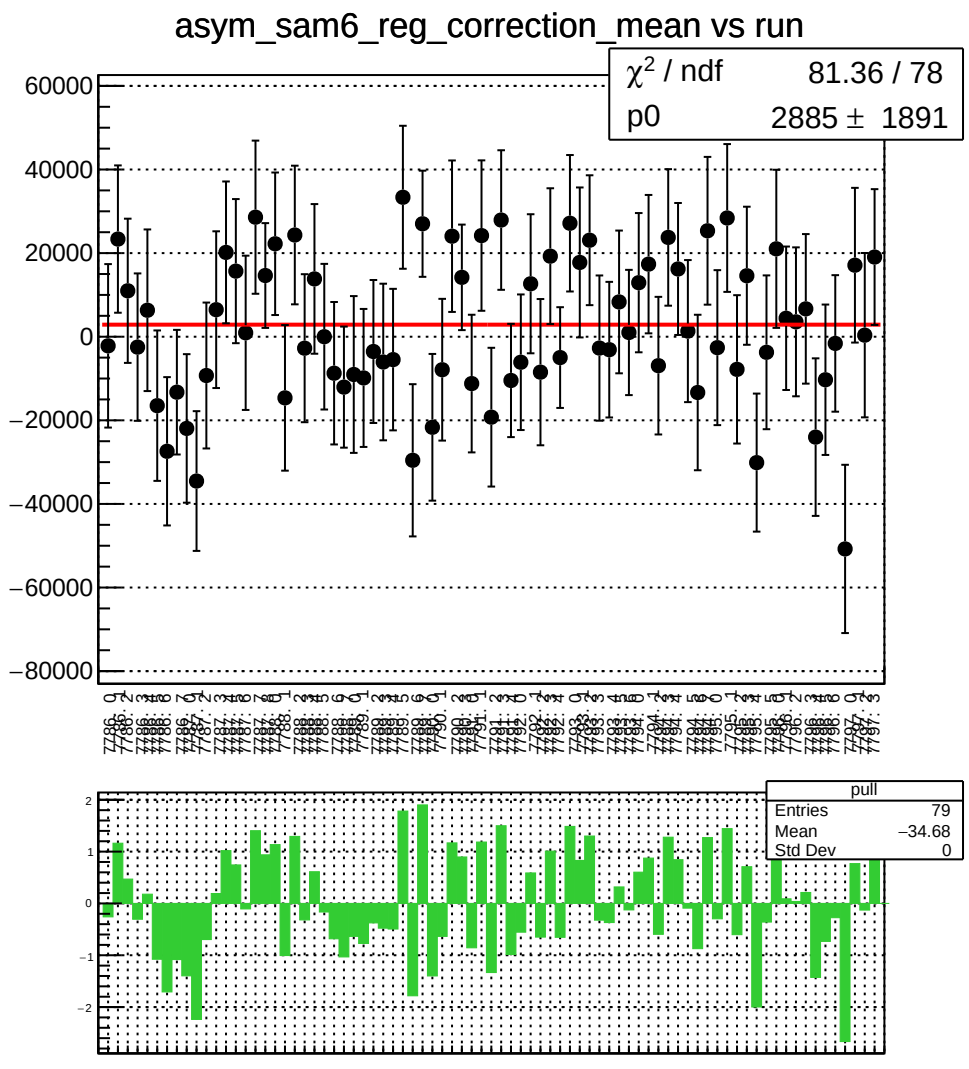

pull1D
Entries 79
Mean 0.02152
Std Dev 0.8367

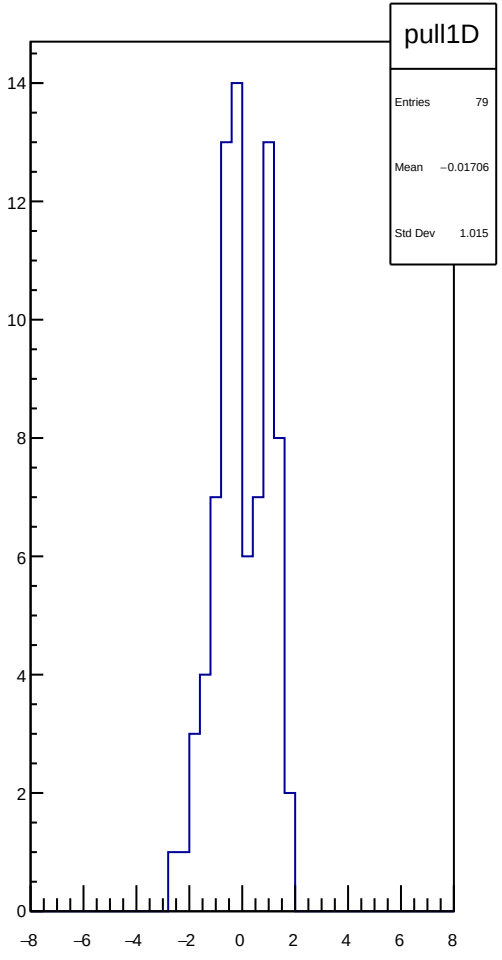

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.561e+05 / 78
p0 2.42e−11 ± 2.448e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

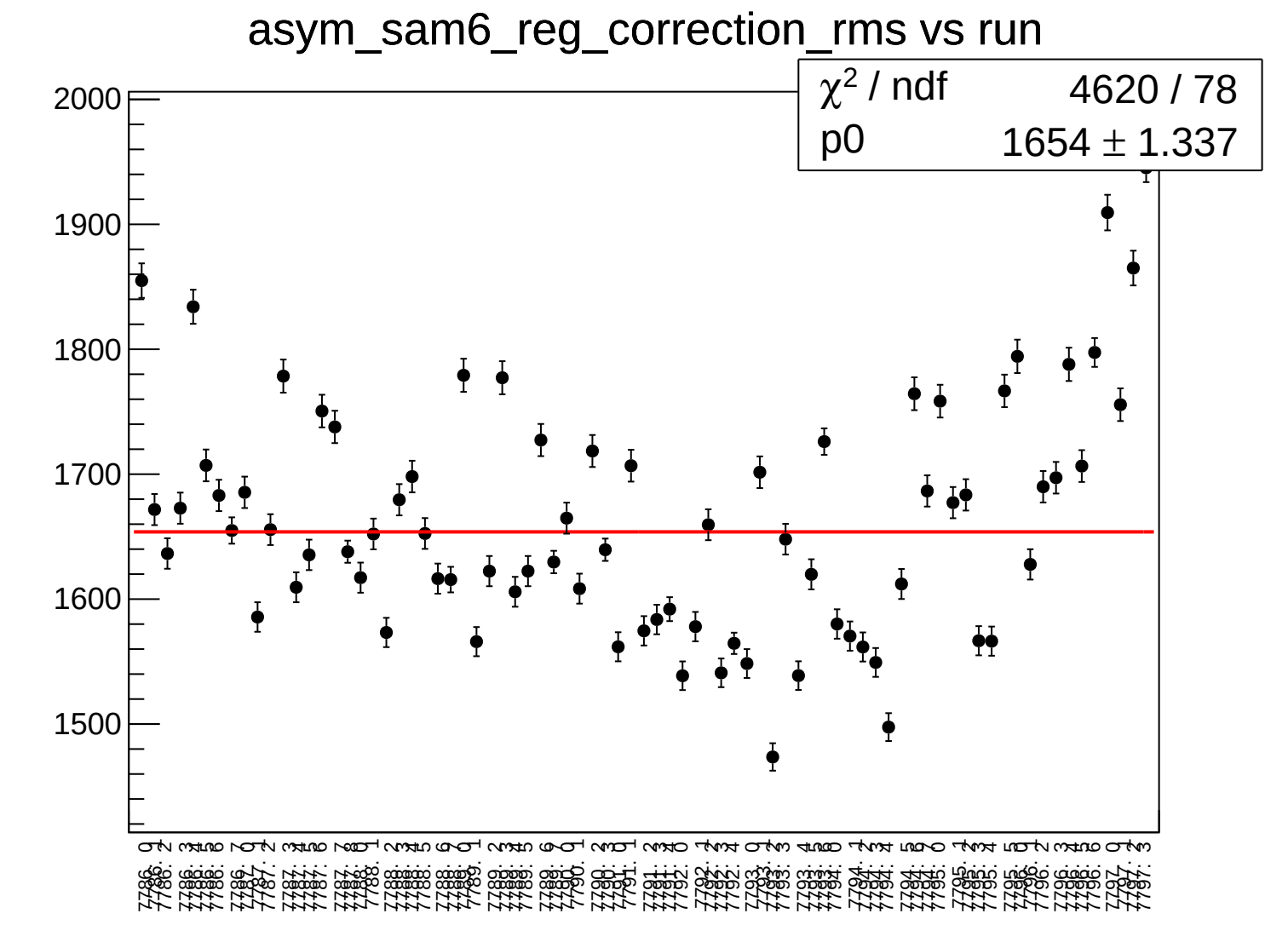

reg_asym_sam6_mean vs run
χ² / ndf 59.61 / 78
p0 −58.76 ± 209.5
pull
Entries 79
Mean −145.3
Std Dev 0

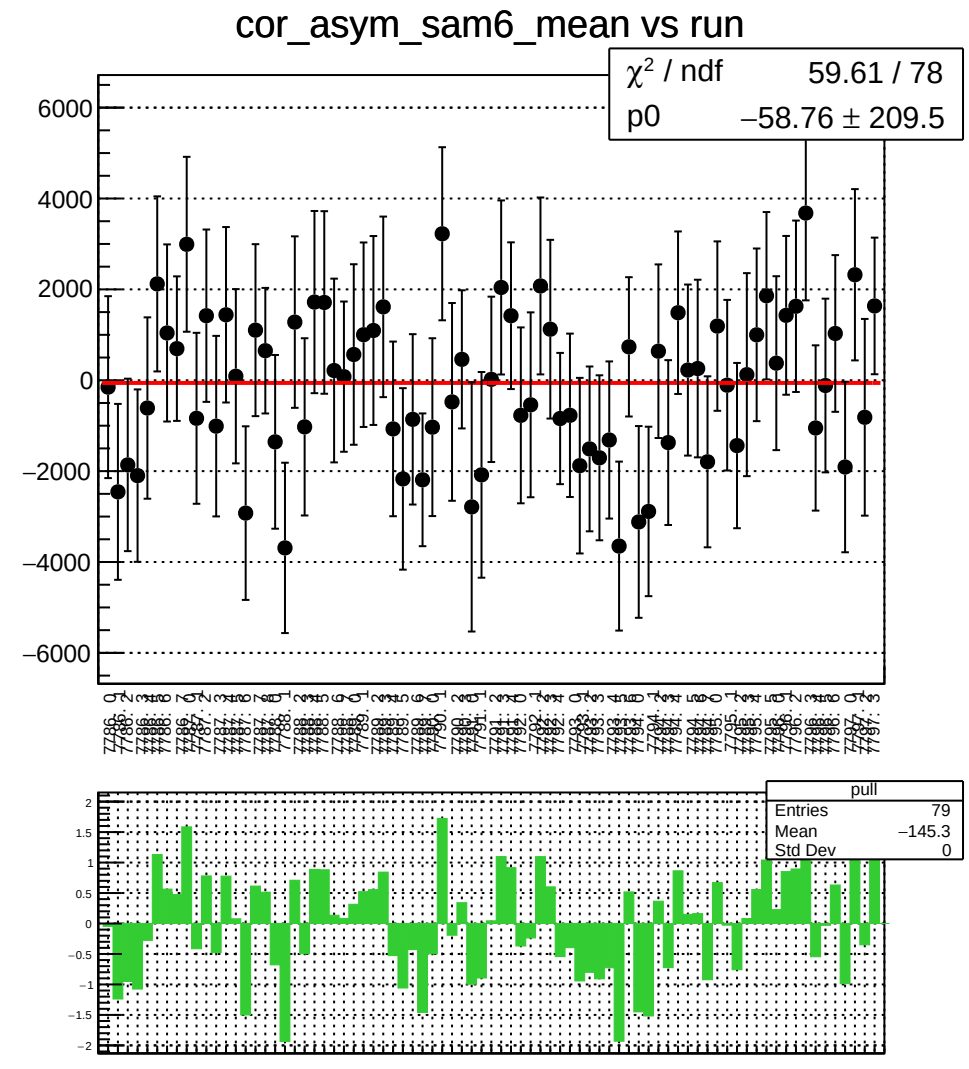

pull1D
Entries 79
Mean −0.008626
Std Dev 0.8686

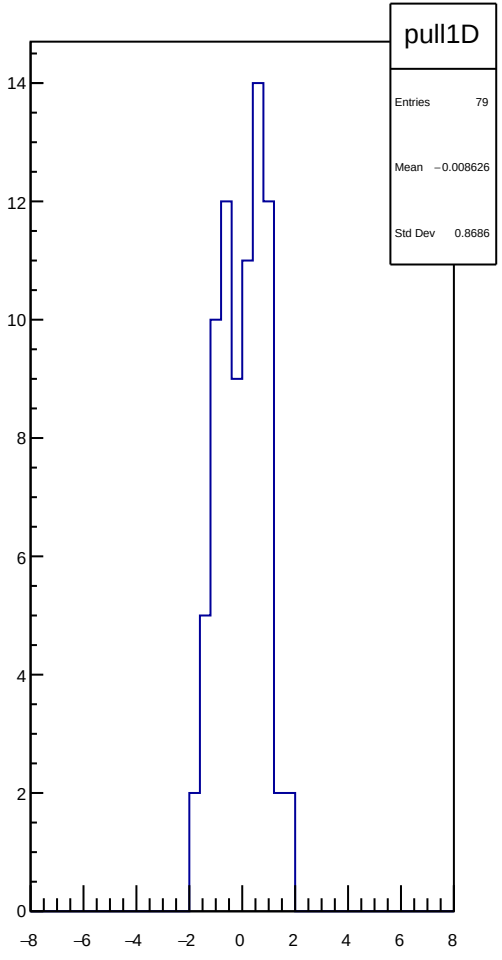

reg_asym_sam6_rms vs run
χ² / ndf 4966 / 78
p0 183.2 ± 0.1481
260
240
220
200
180
160

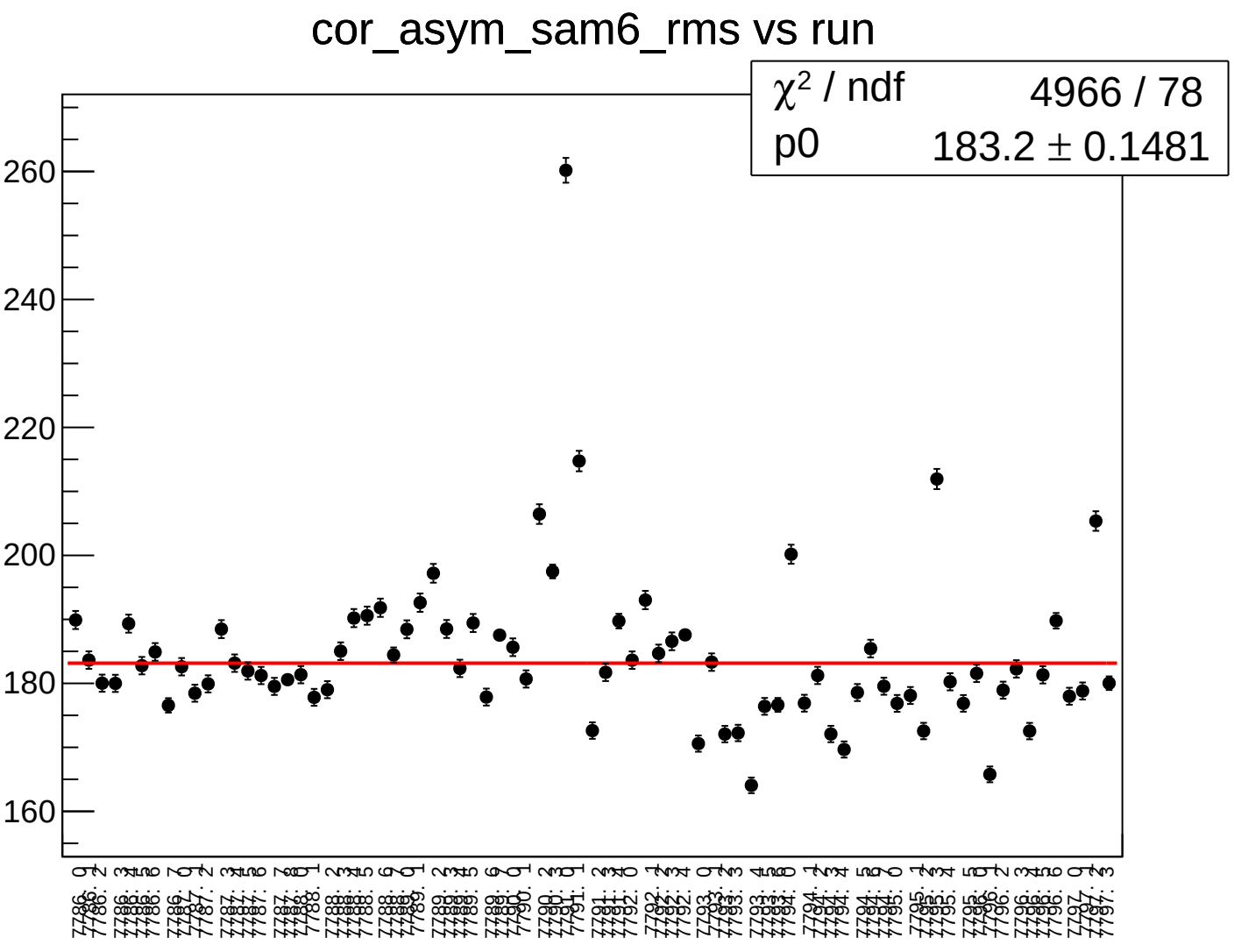

asym_sam6_reg_correction_mean vs run
χ² / ndf 81.36 / 78
p0 2885 ± 1891
pull
Entries 79
Mean −34.68
Std Dev 0

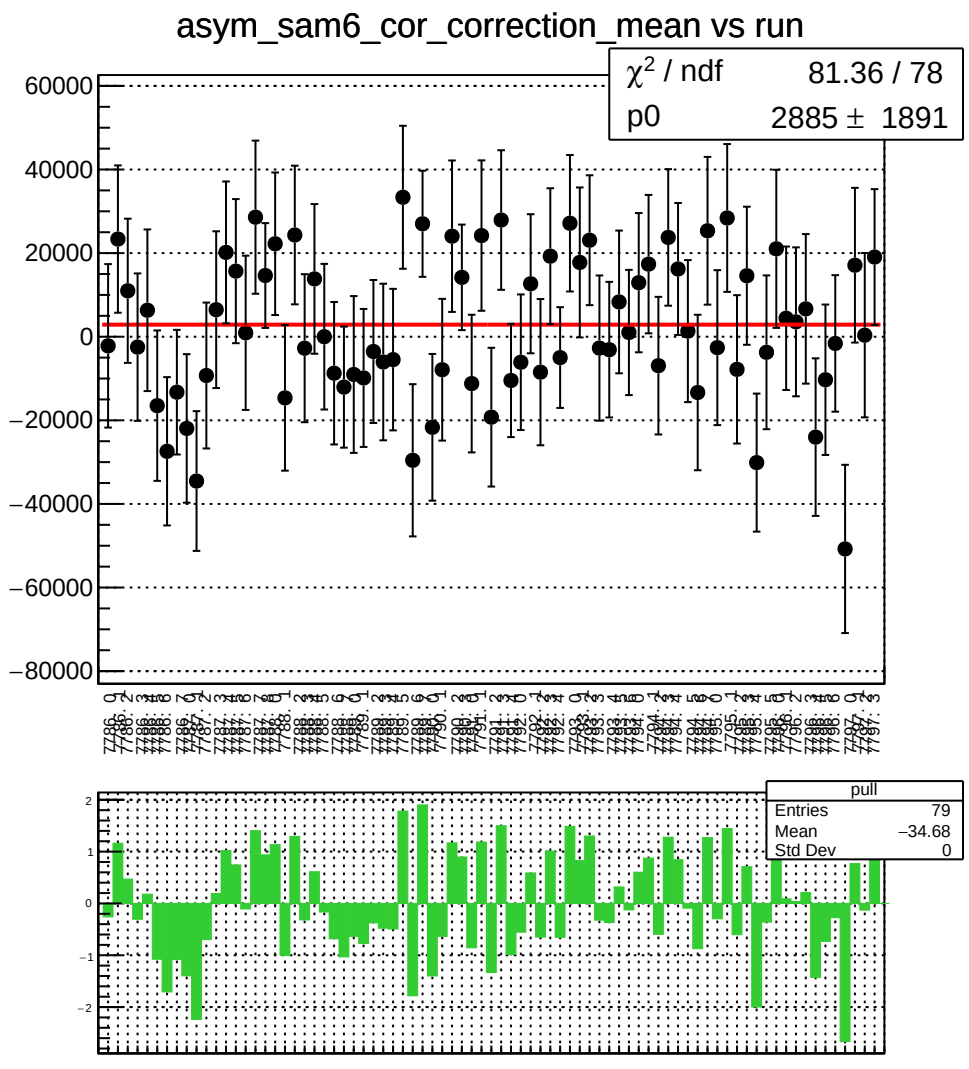

pull1D
Entries 79
Mean −0.01706
Std Dev 1.015

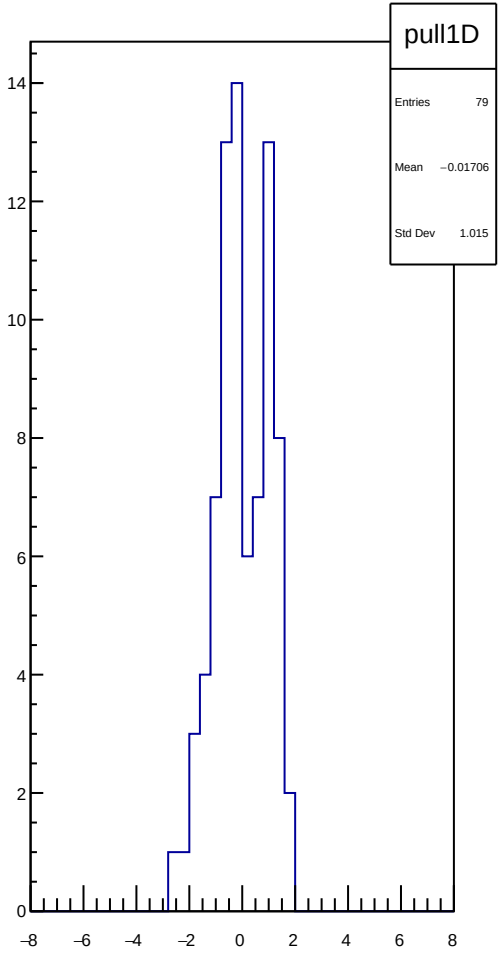

asym_sam6_reg_correction_rms vs run
χ² / ndf 4620 / 78
p0 1654 ± 1.337
2000
1900
1800
1700
1600
1500

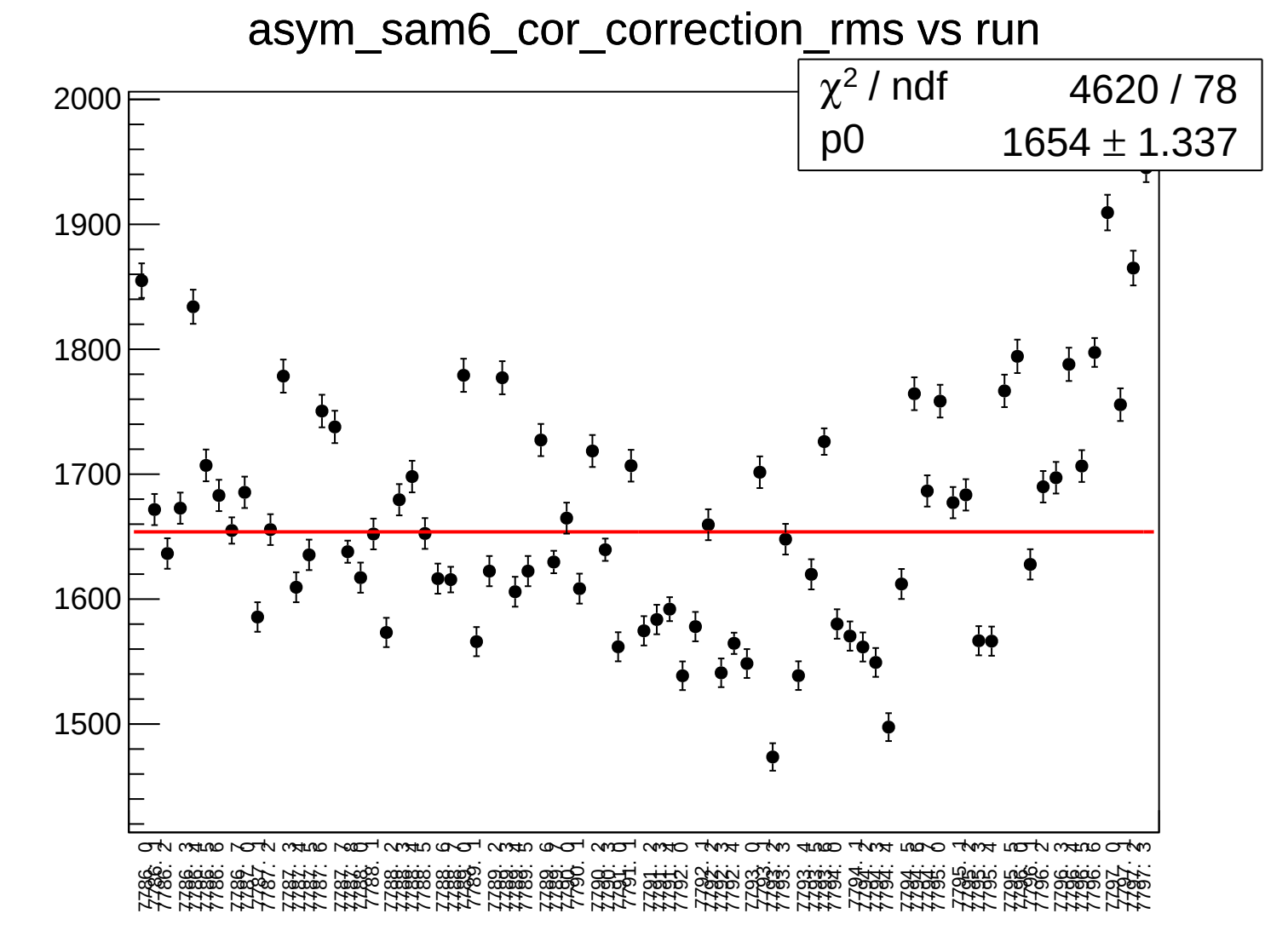

cor_asym_sam6_mean vs run
χ² / ndf 59.61 / 78
p0 −58.76 ± 209.5
pull
Entries 79
Mean −145.3
Std Dev 0

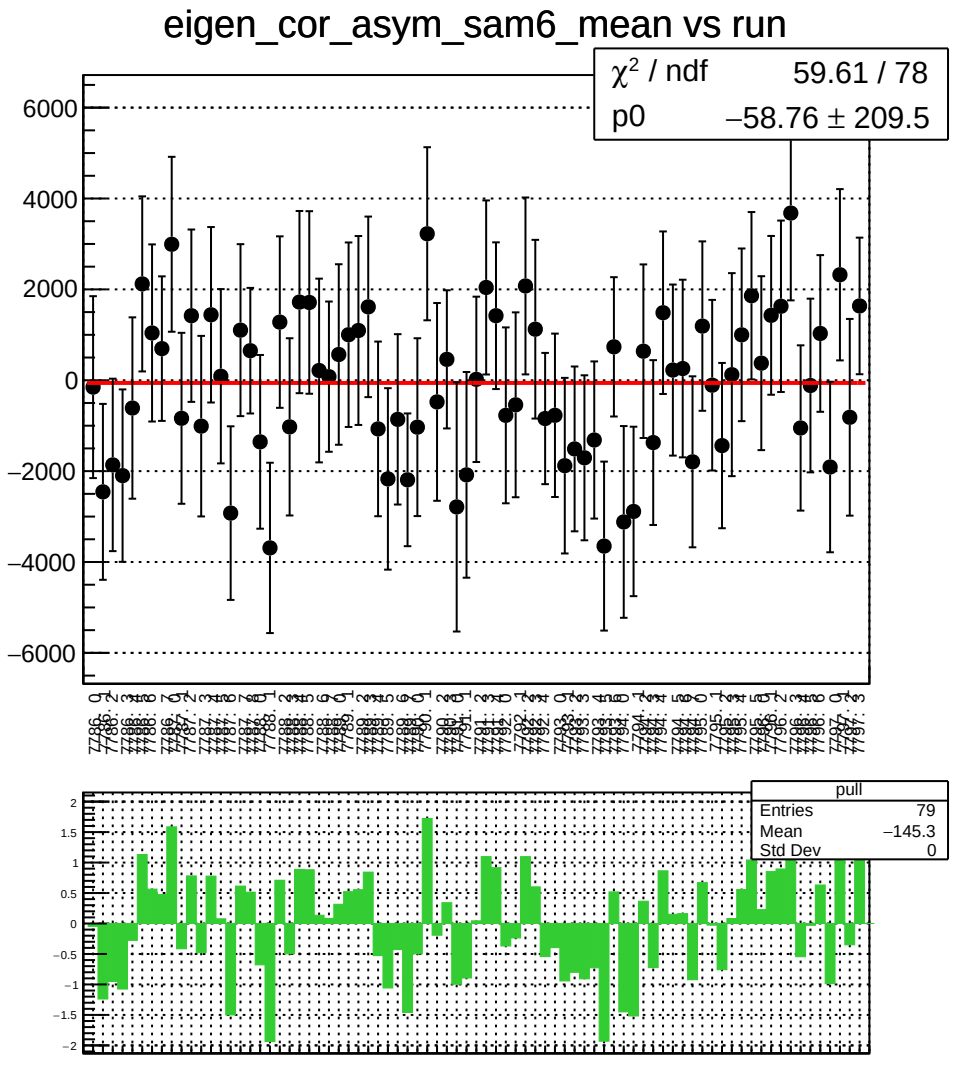

pull1D
Entries 79
Mean −0.008626
Std Dev 0.8686

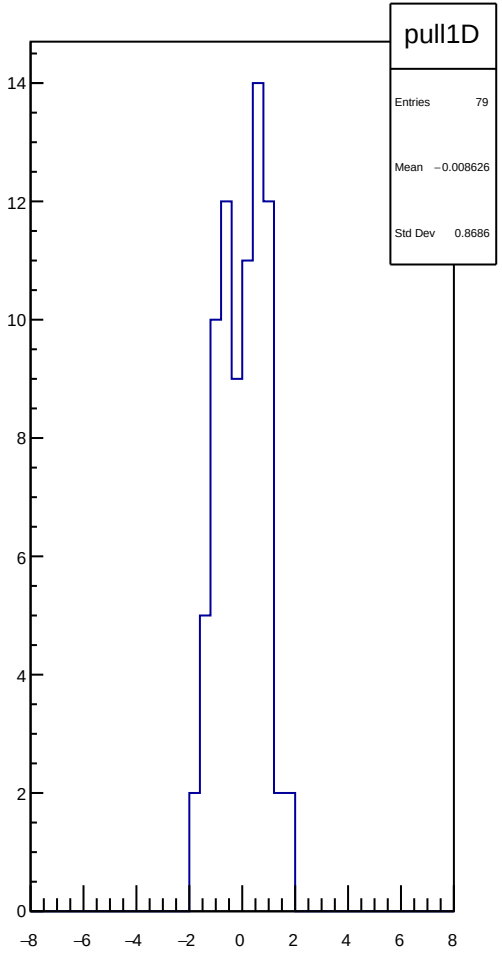

cor_asym_sam6_rms vs run
χ² / ndf 4966 / 78
p0 183.2 ± 0.1481
260
240
220
200
180
160

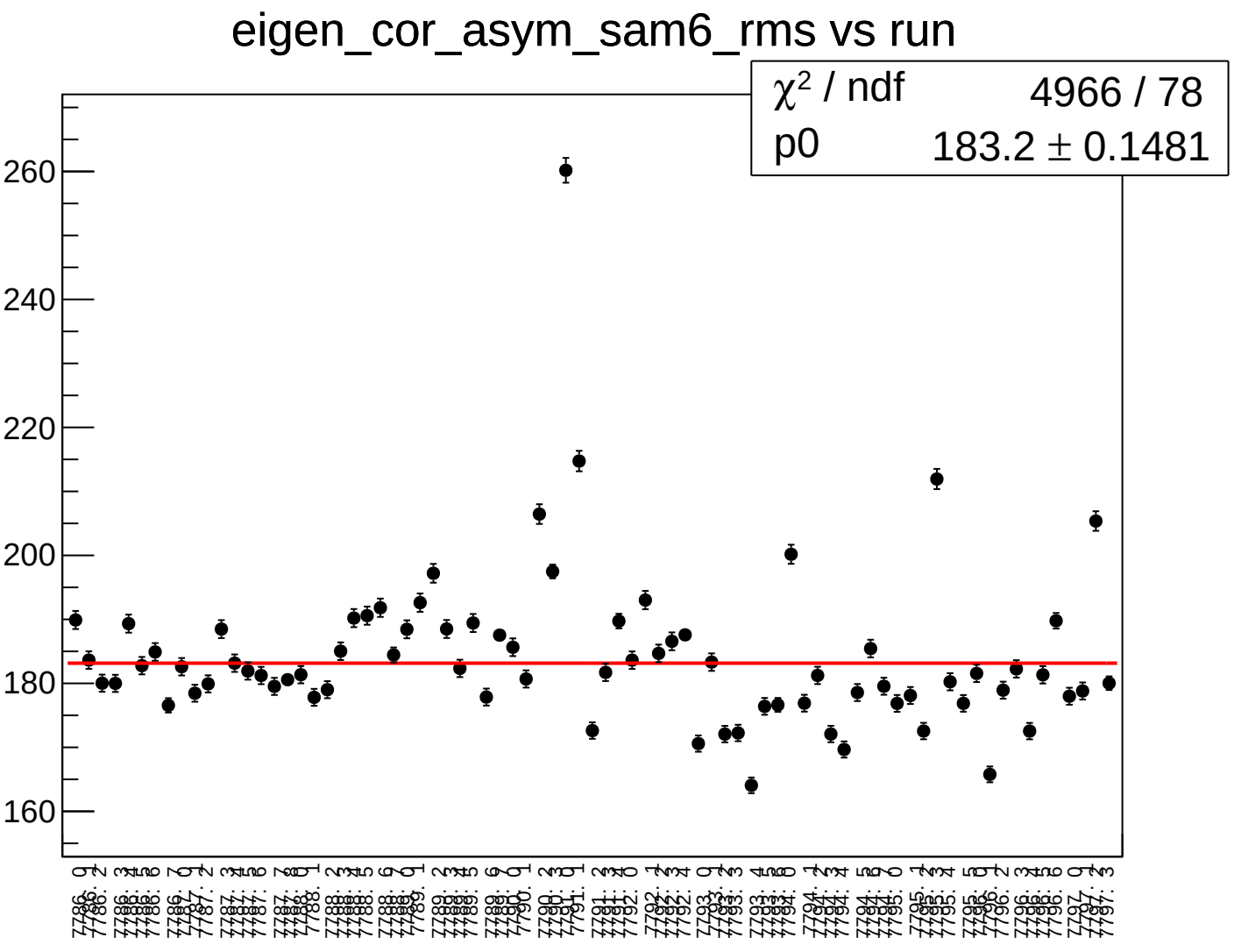

asym_sam6_cor_correction_mean vs run
χ² / ndf 81.36 / 78
p0 2885 ± 1891
pull
Entries 79
Mean −34.68
Std Dev 0

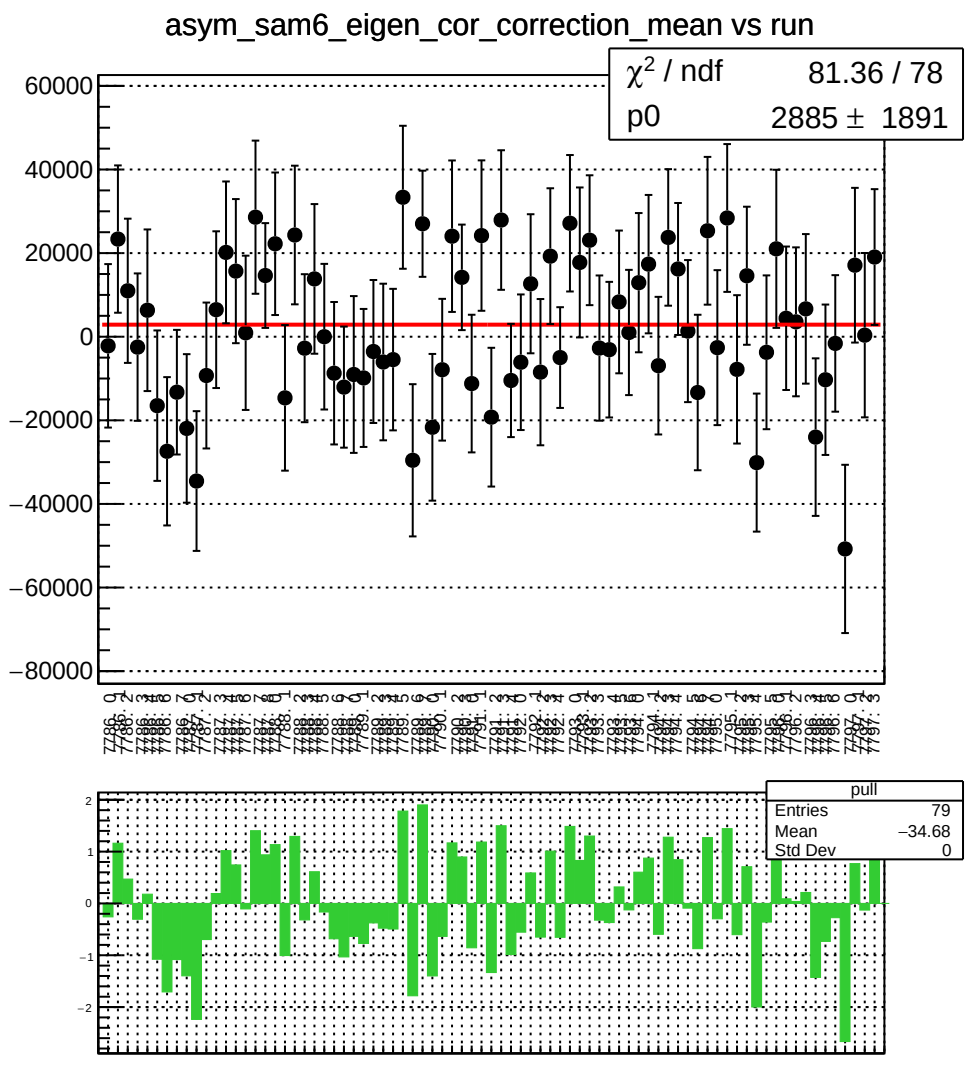

pull1D
Entries 79
Mean −0.01706
Std Dev 1.015

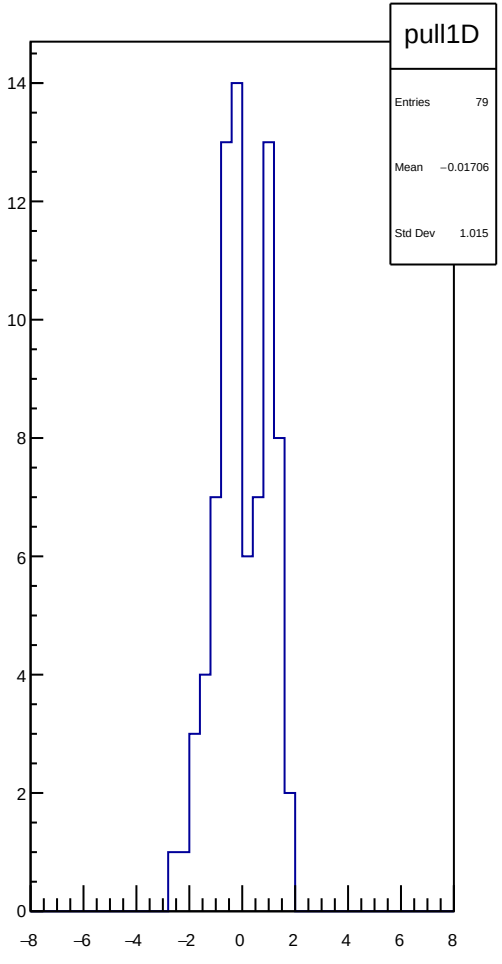

asym_sam6_cor_correction_rms vs run
χ² / ndf 4620 / 78
p0 1654 ± 1.337
2000
1900
1800
1700
1600
1500

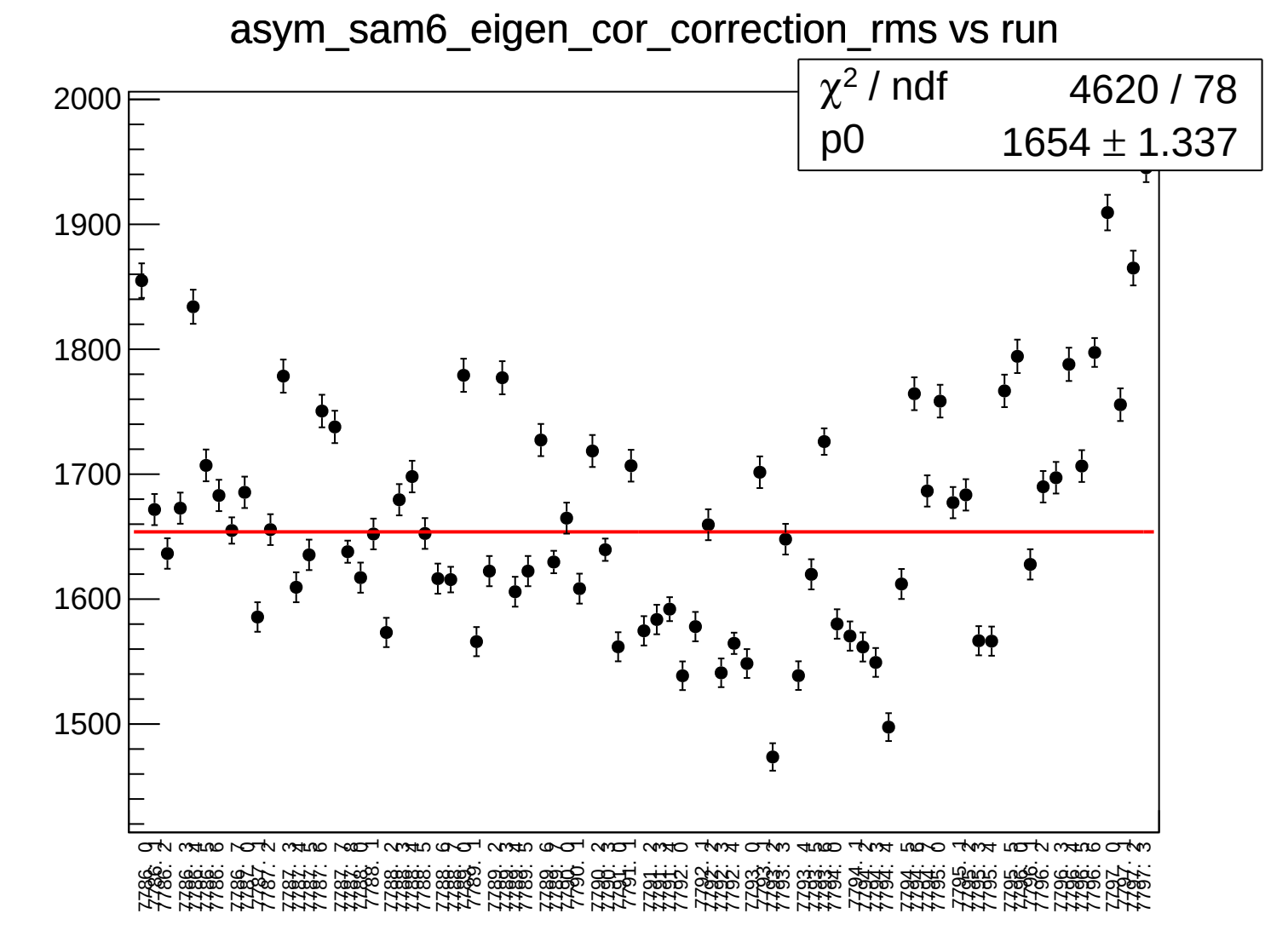

eigen_cor_asym_sam6_mean vs run
χ² / ndf 59.61 / 78
p0 −58.76 ± 209.5
pull
Entries 79
Mean −145.3
Std Dev 0

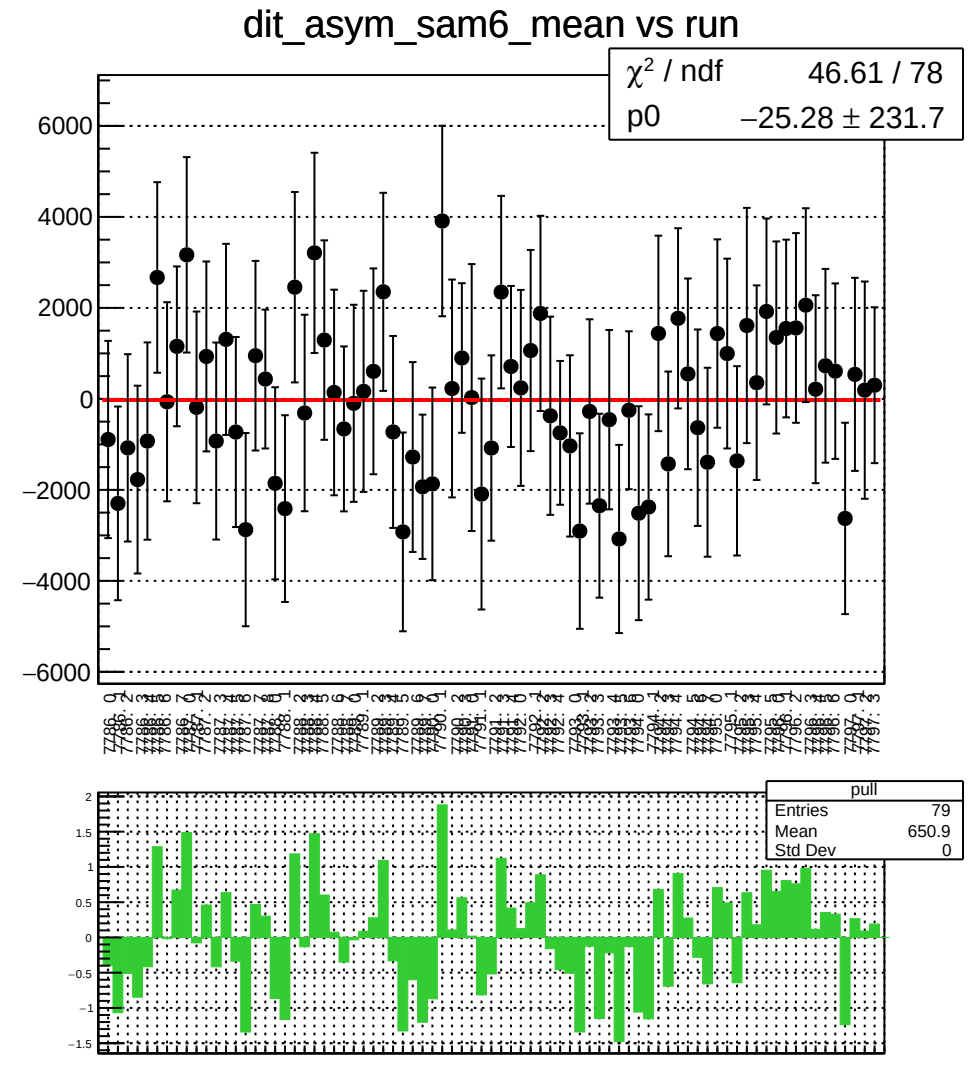

pull1D
Entries 79
Mean −0.008626
Std Dev 0.8686

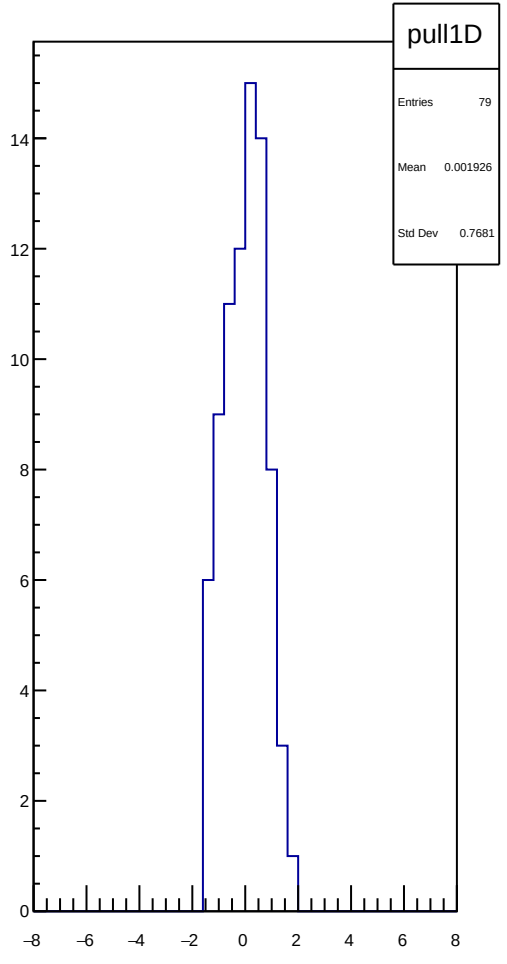

eigen_cor_asym_sam6_rms vs run
χ² / ndf 4966 / 78
p0 183.2 ± 0.1481
260
240
220
200
180
160

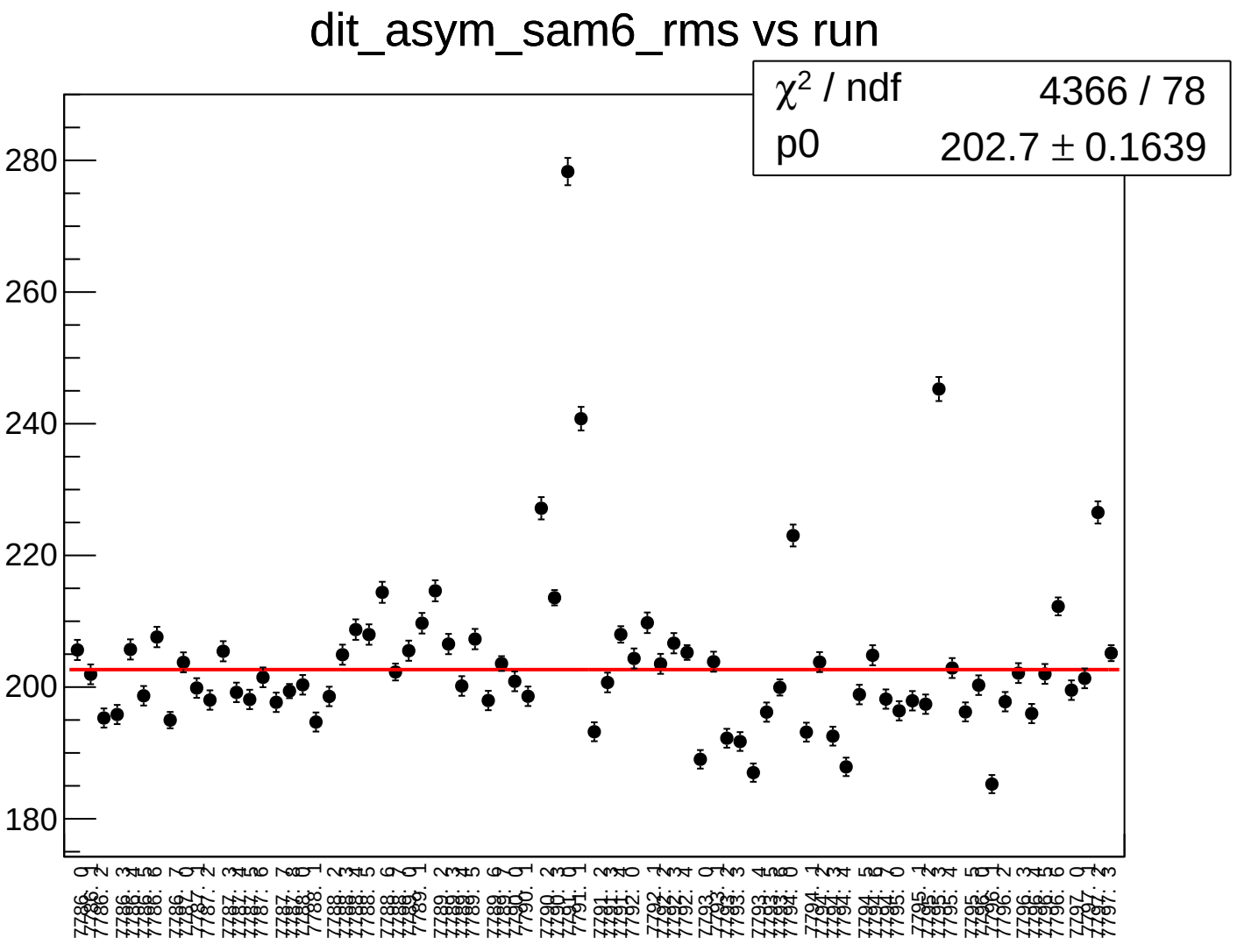

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 81.36 / 78
p0 2885 ± 1891
pull
Entries 79
Mean −34.68
Std Dev 0

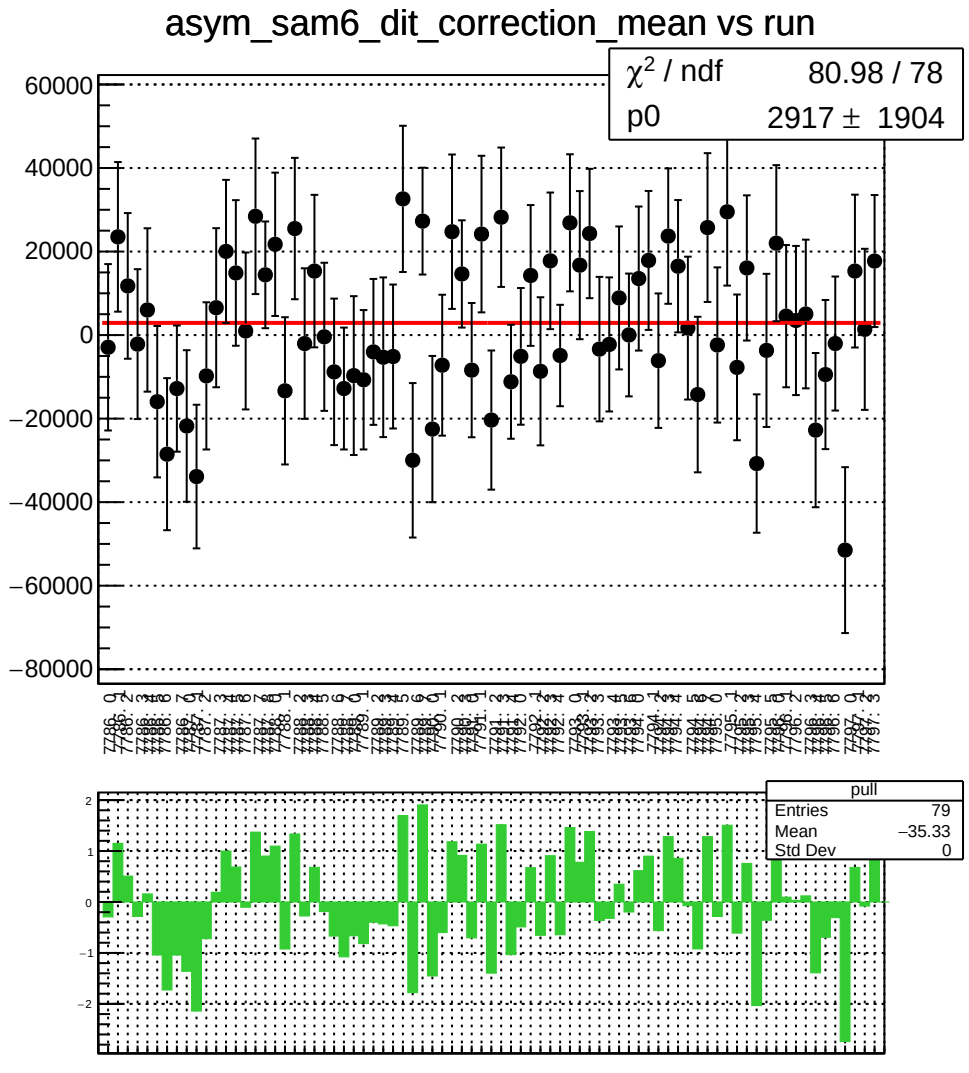

pull1D
Entries 79
Mean −0.01706
Std Dev 1.015

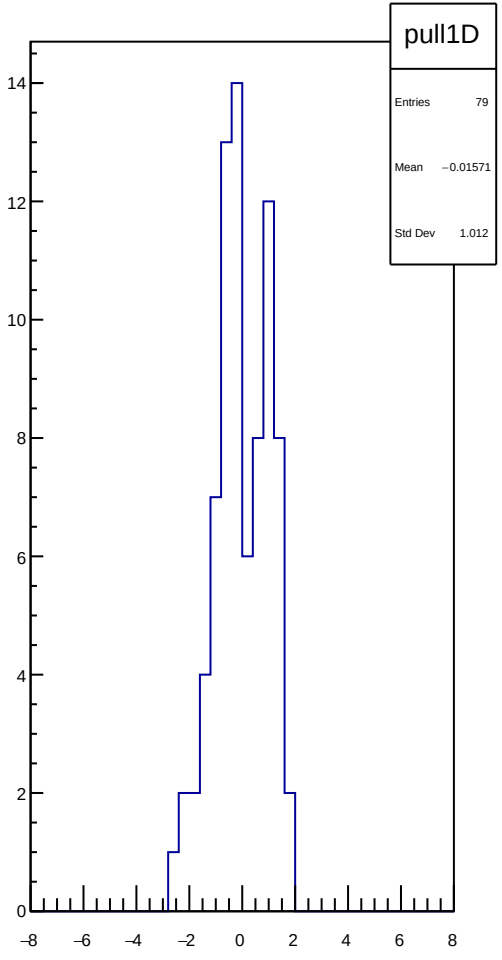

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 4620 / 78
p0 1654 ± 1.337
2000
1900
1800
1700
1600
1500

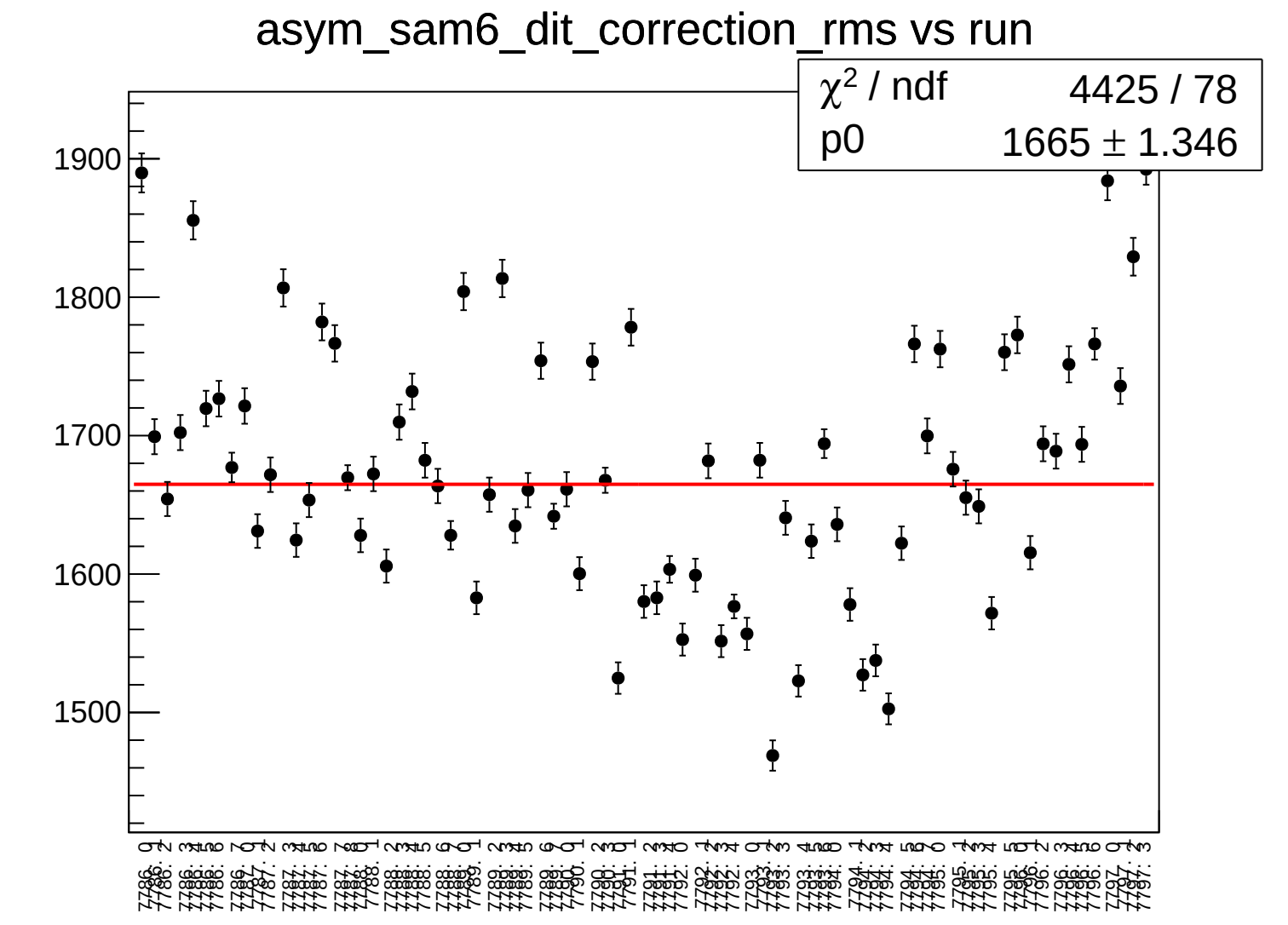

dit_asym_sam6_mean vs run
χ² / ndf 46.61 / 78
p0 −25.28 ± 231.7
pull
Entries 79
Mean 650.9
Std Dev 0

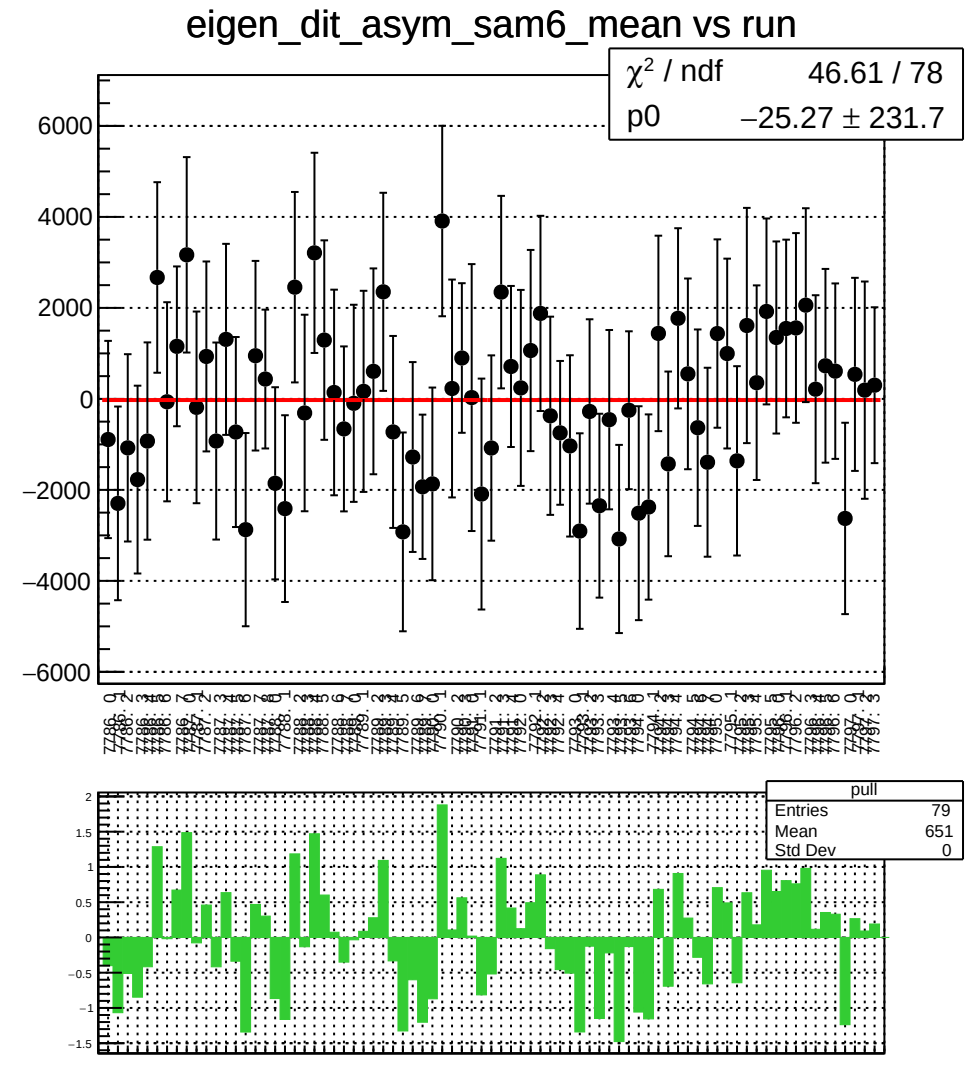

pull1D
Entries 79
Mean 0.001926
Std Dev 0.7681

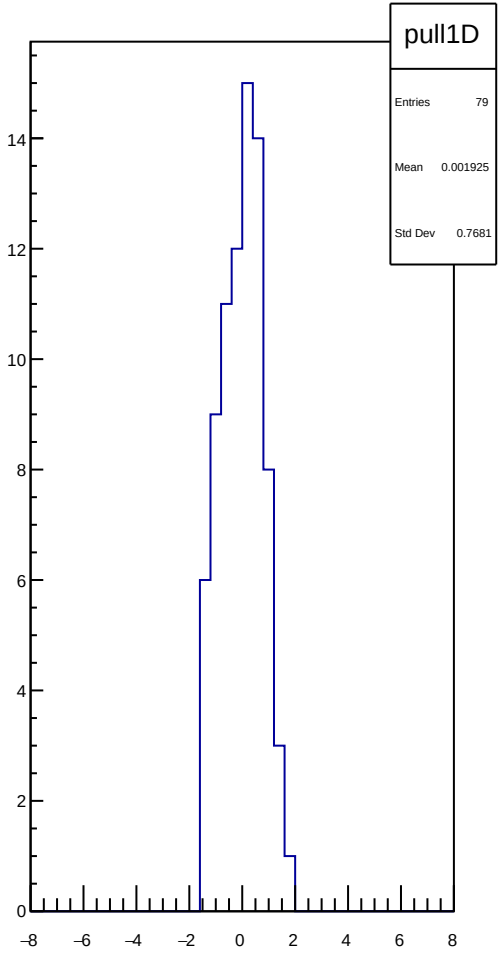

dit_asym_sam6_rms vs run
χ^2 / ndf 4366 / 78
p0 202.7 ± 0.1639
280
260
240
220
200
180

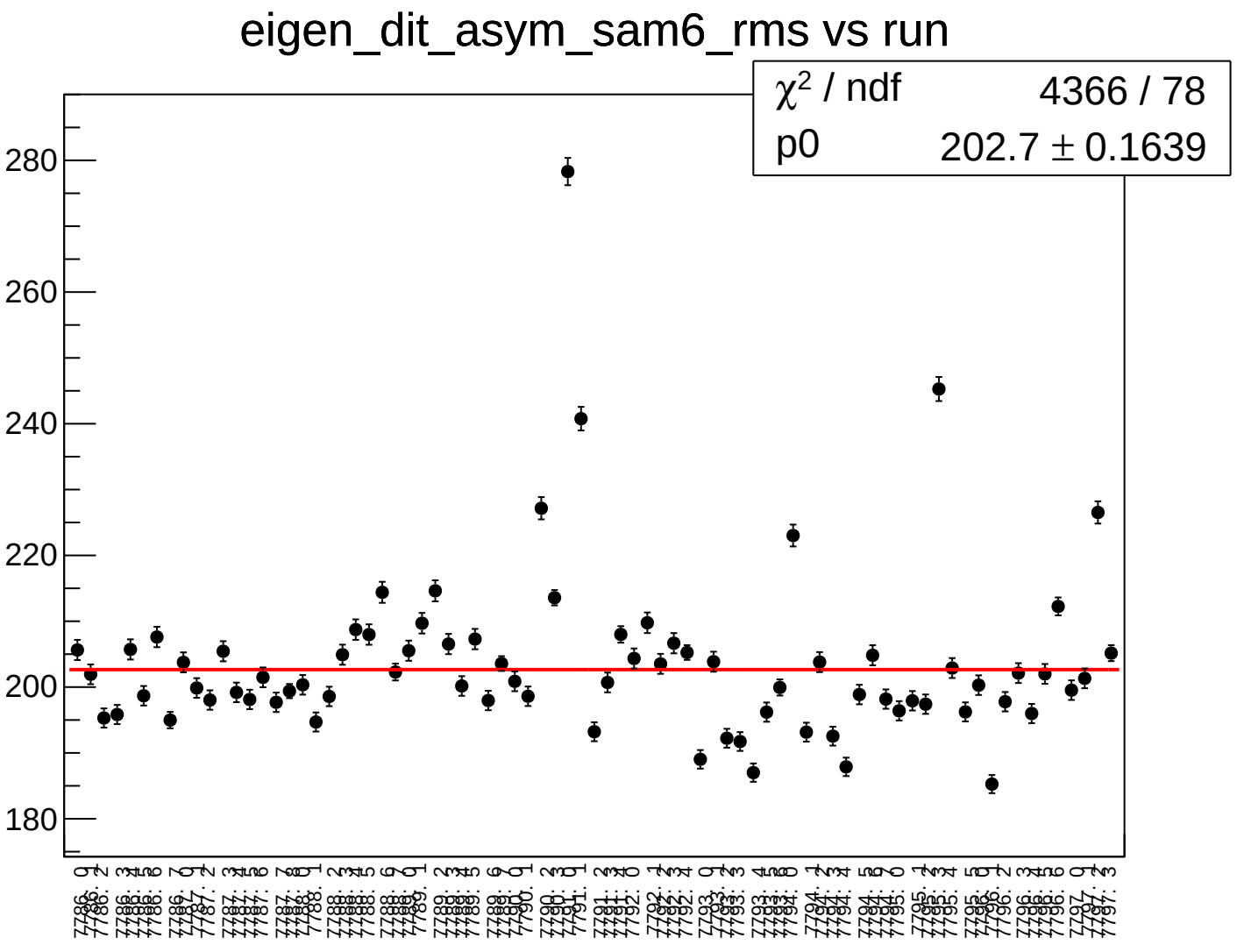

asym_sam6_dit_correction_mean vs run
χ² / ndf 80.98 / 78
p0 2917 ± 1904
pull
Entries 79
Mean −35.33
Std Dev 0

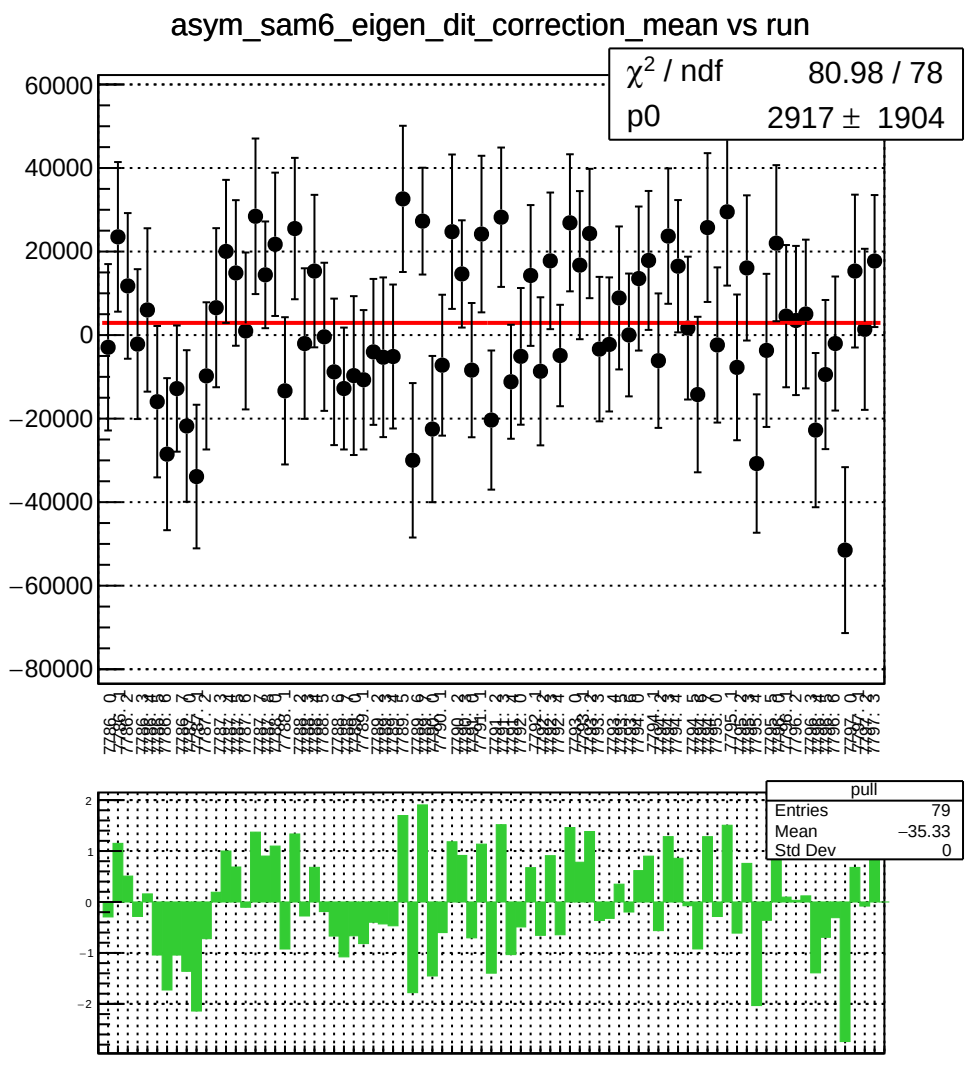

pull1D
Entries 79
Mean −0.01571
Std Dev 1.012

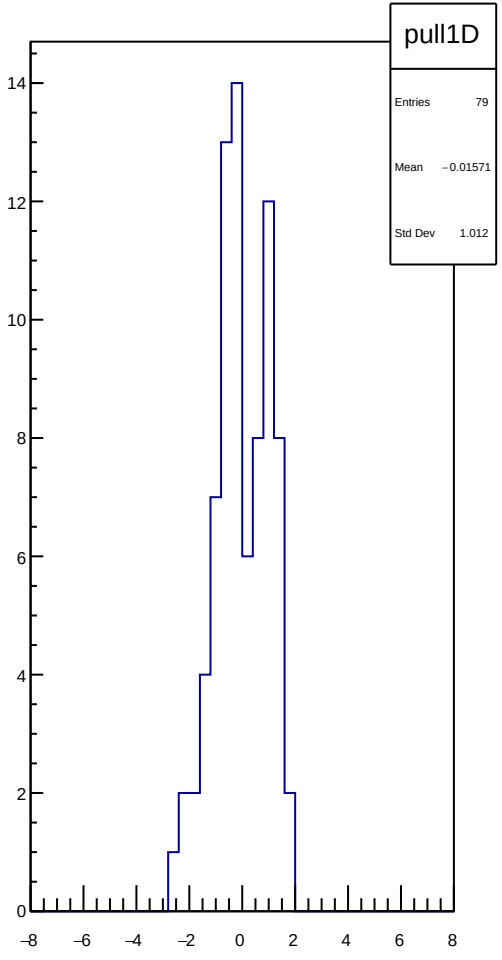

asym_sam6_dit_correction_rms vs run
χ² / ndf 4425 / 78
p0 1665 ± 1.346
1900
1800
1700
1600
1500

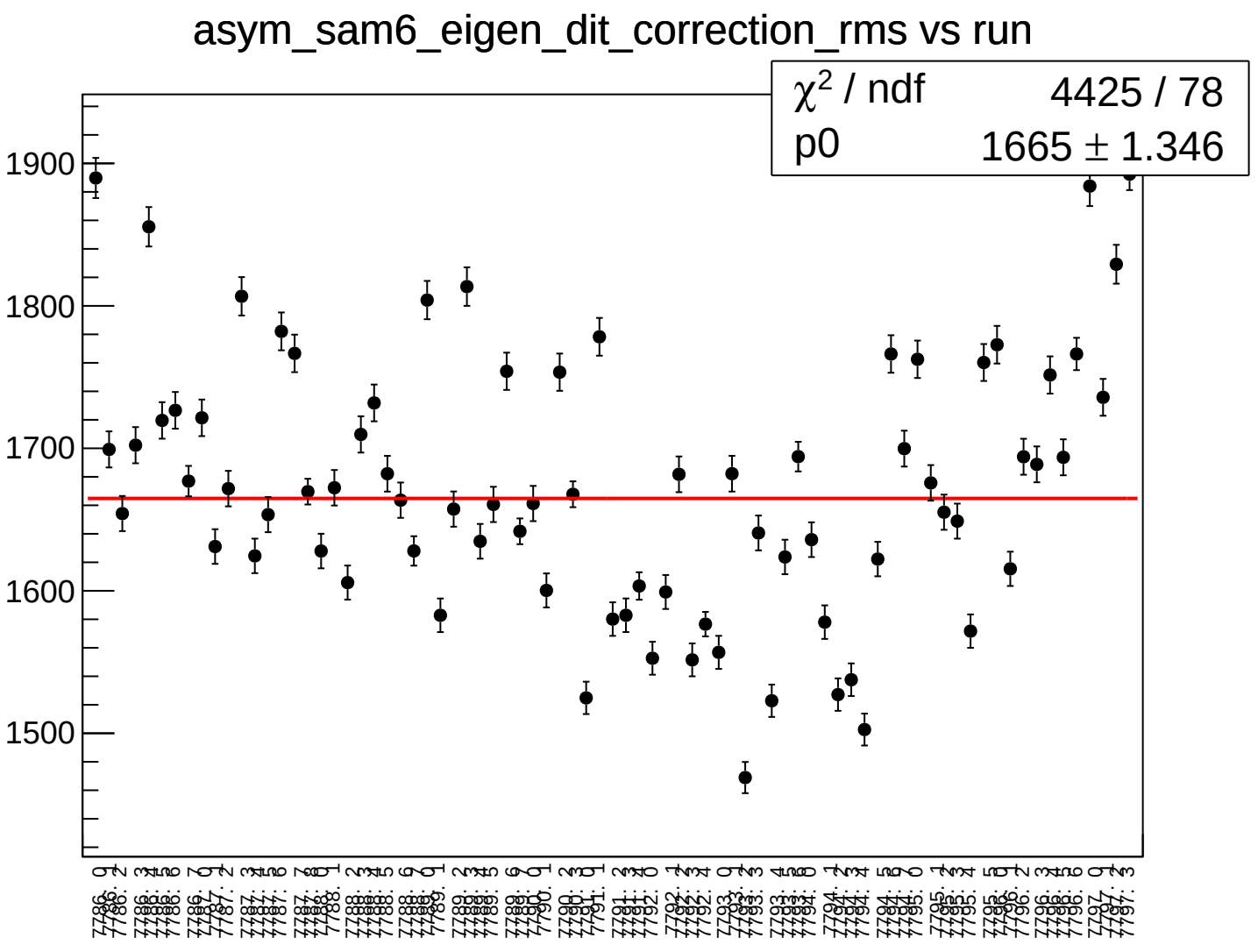

eigen_dit_asym_sam6_mean vs run
χ² / ndf 46.61 / 78
p0 −25.27 ± 231.7
pull
Entries 79
Mean 651
Std Dev 0

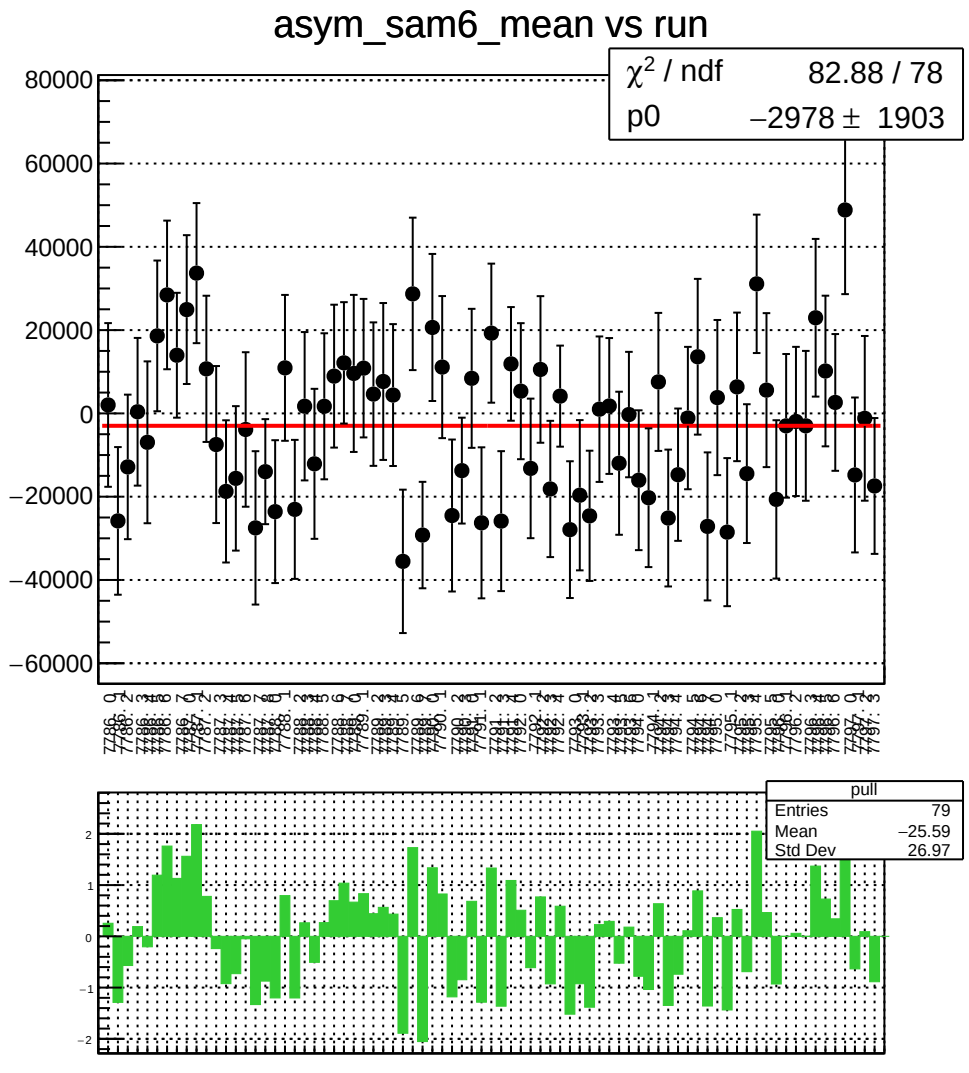

pull1D
Entries 79
Mean 0.001925
Std Dev 0.7681

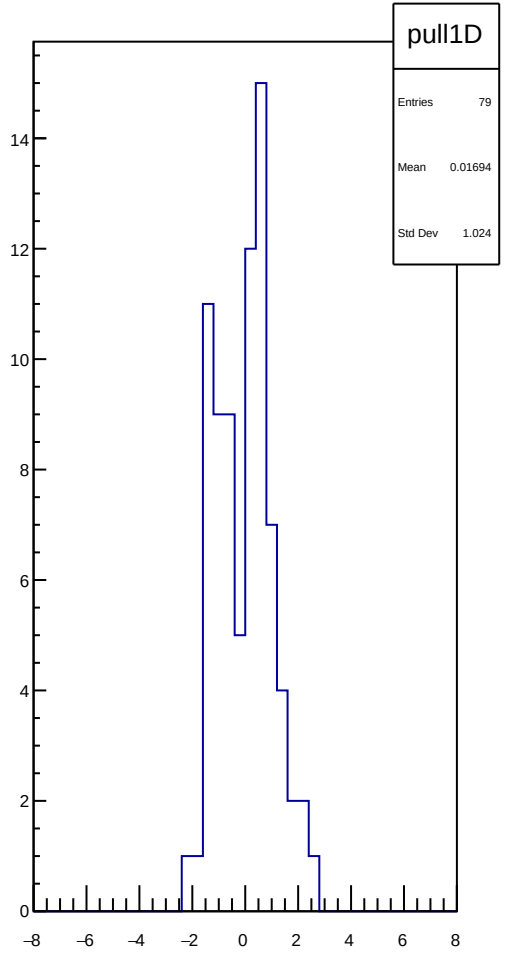

eigen_dit_asym_sam6_rms vs run
χ^2 / ndf 4366 / 78
p0 202.7 ± 0.1639
280
260
240
220
200
180

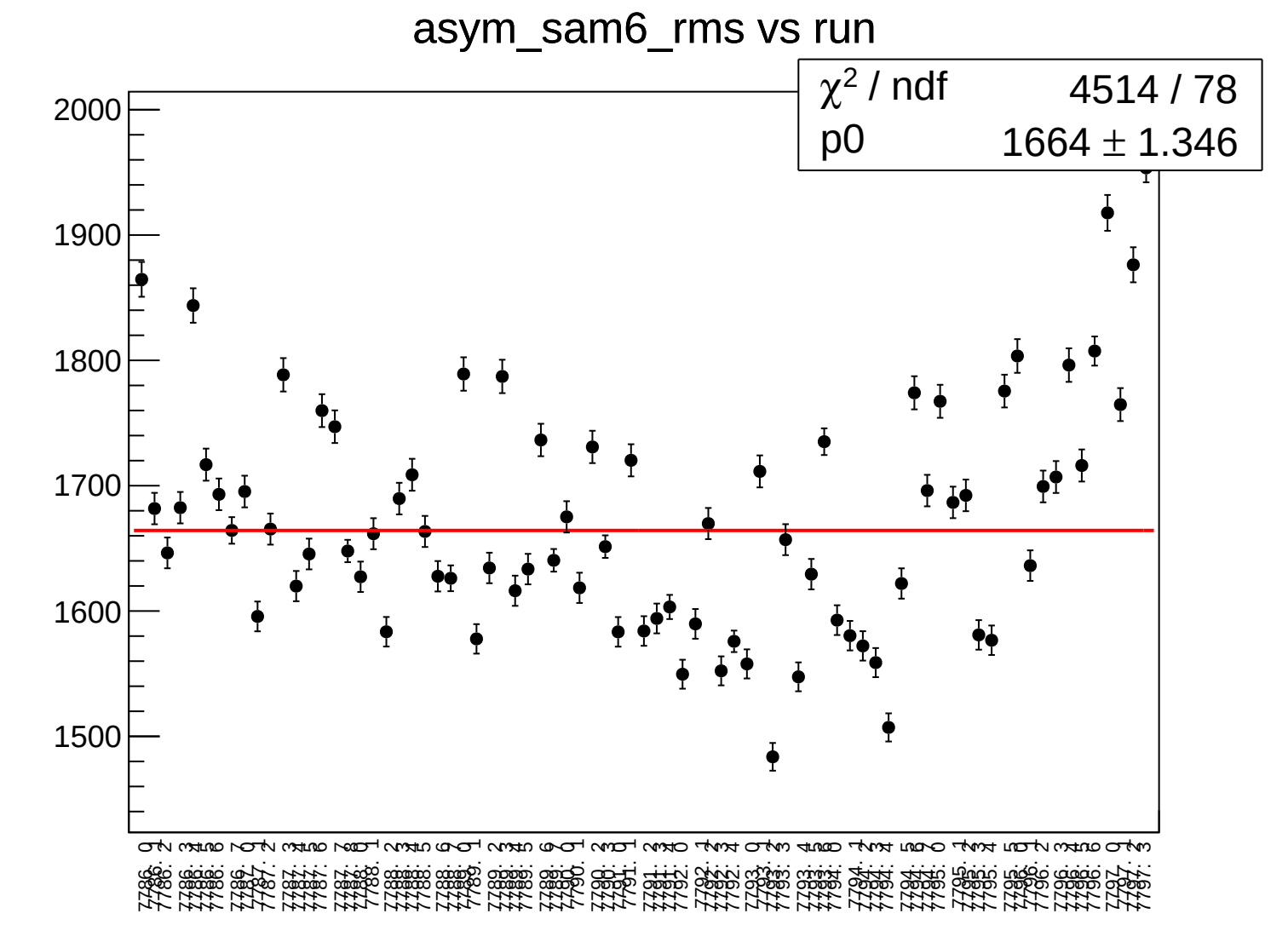

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 80.98 / 78
p0 2917 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean −35.33
Std Dev 0
2
1
0
−1
−2

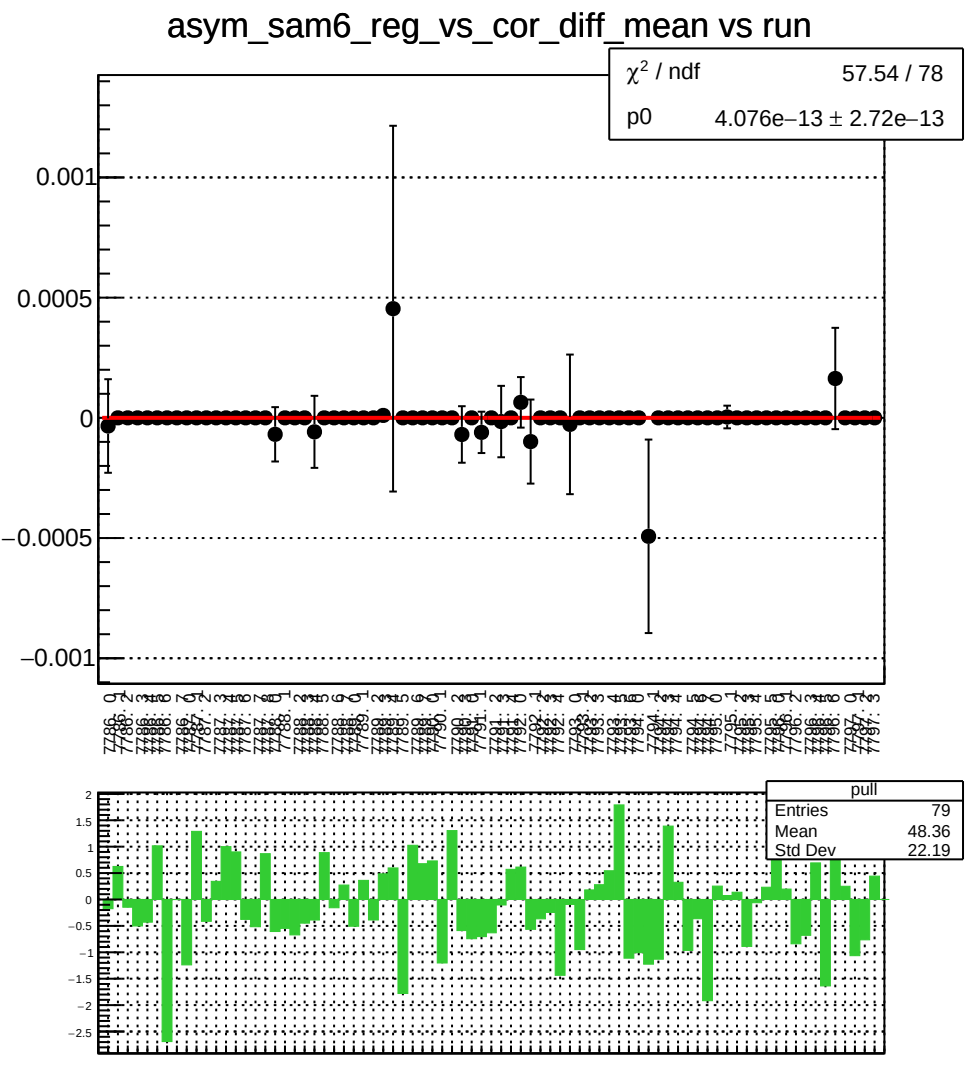

pull1D
Entries 79
Mean −0.01571
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

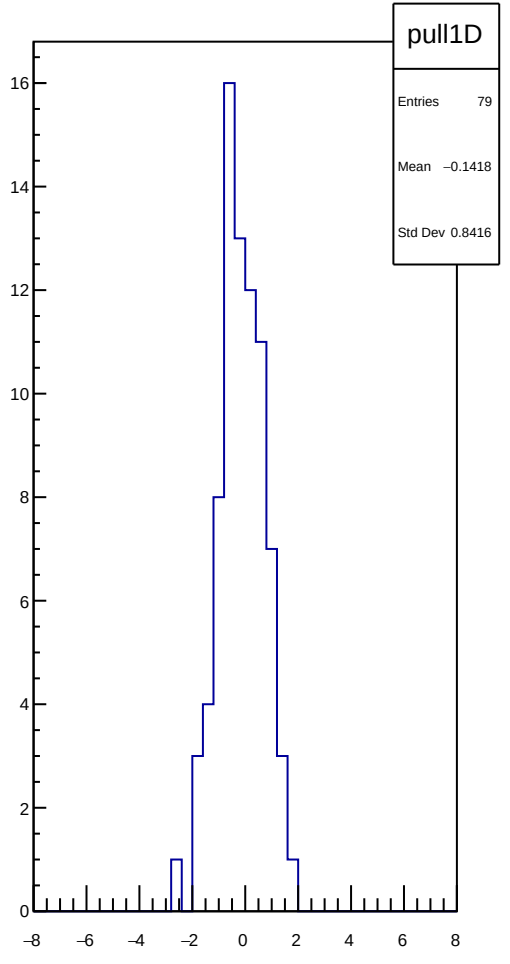

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 4425 / 78
p0 1665 ± 1.346
1900
1800
1700
1600
1500

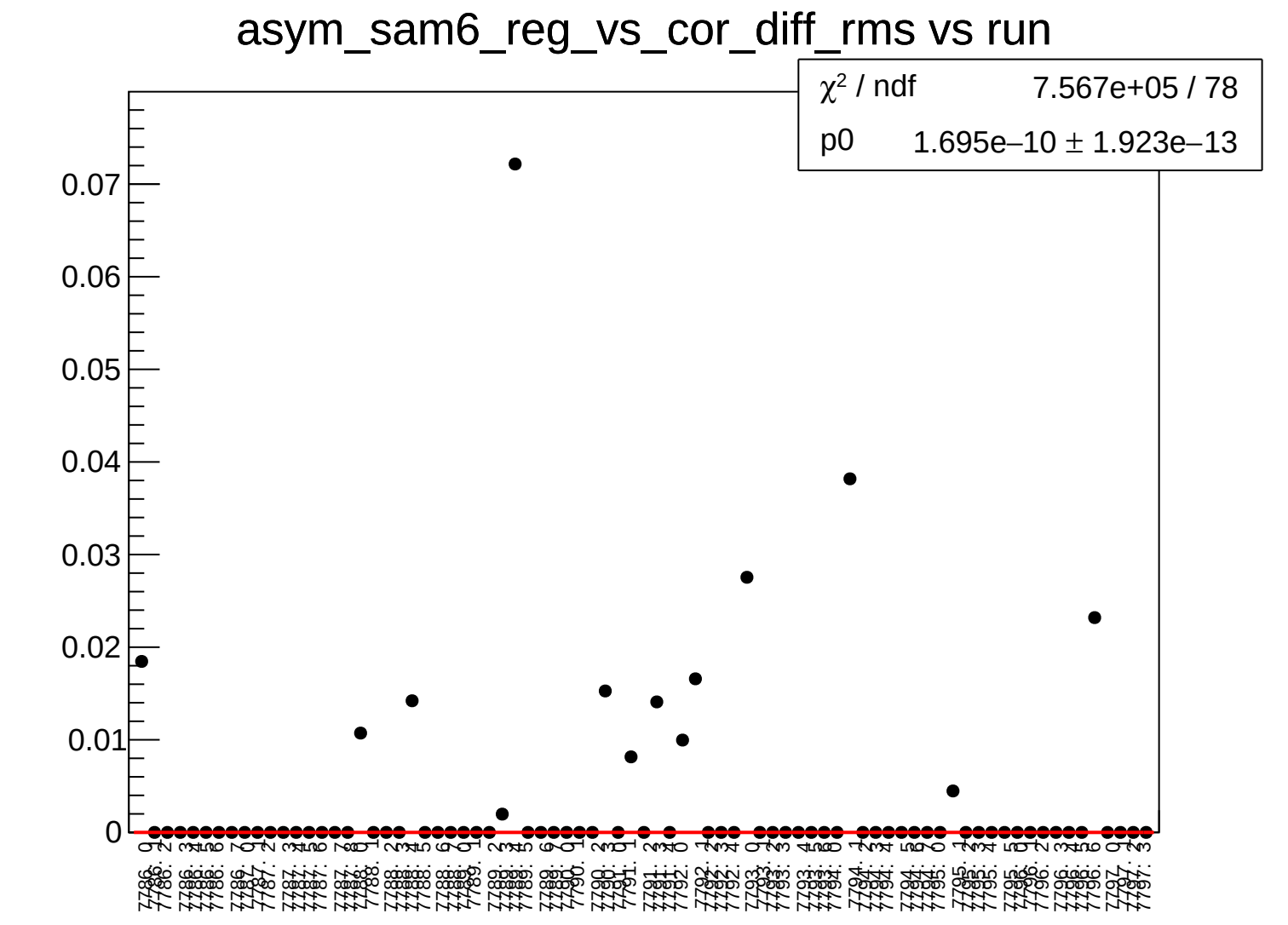

asym_sam6_mean vs run
χ² / ndf 82.88 / 78
p0 −2978 ± 1903
pull
Entries 79
Mean −25.59
Std Dev 26.97

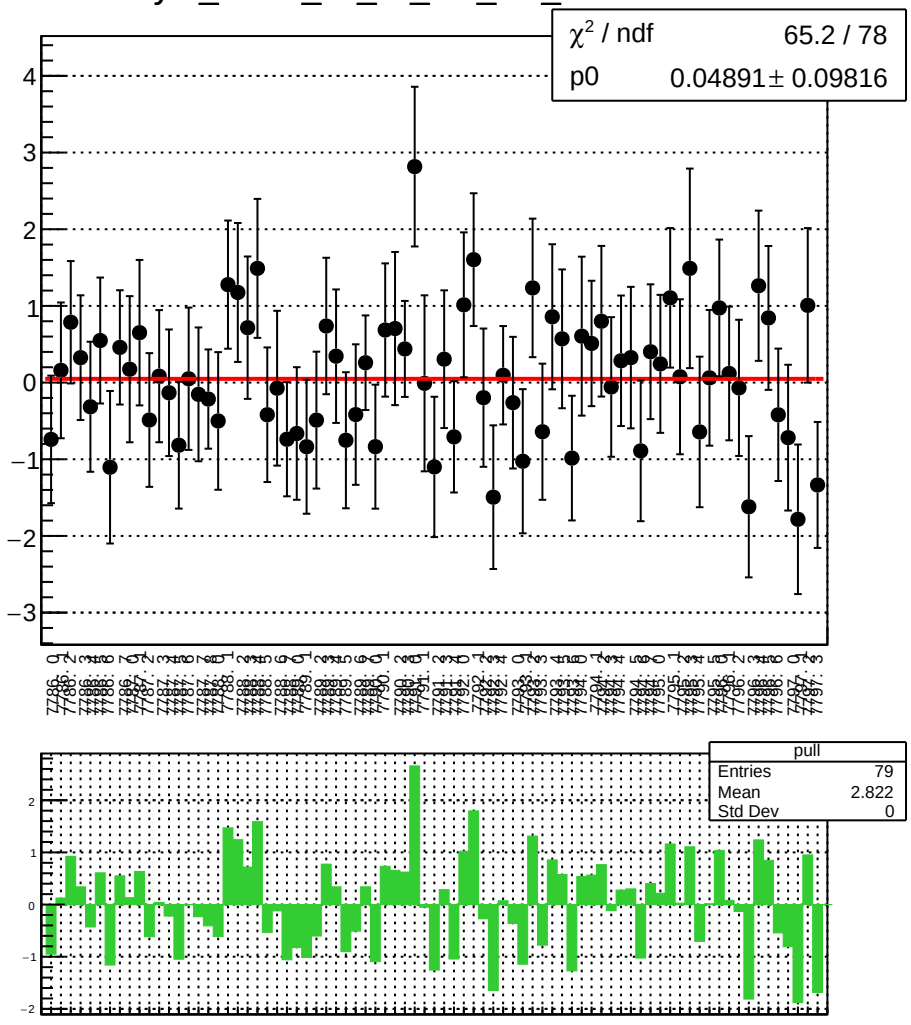

pull1D
Entries 79
Mean 0.01694
Std Dev 1.024

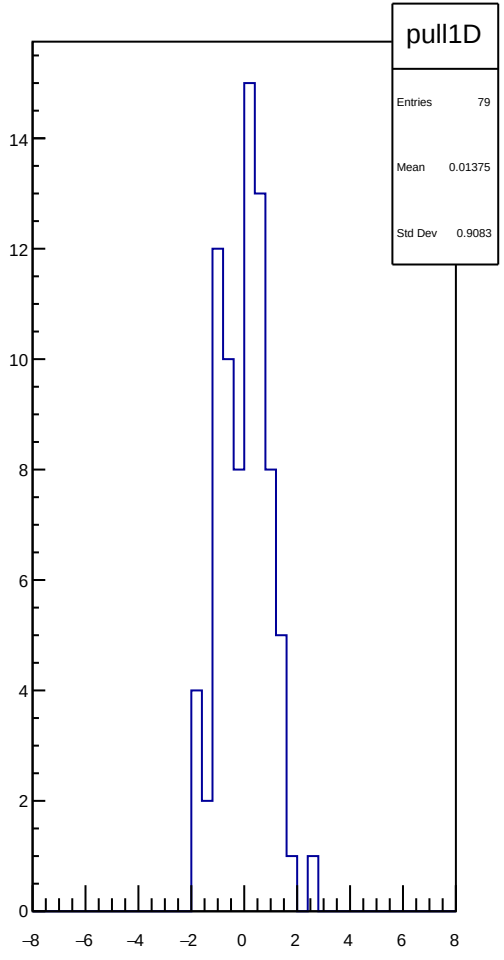

asym_sam6_rms vs run
χ² / ndf 4514 / 78
p0 1664 ± 1.346
2000
1900
1800
1700
1600
1500

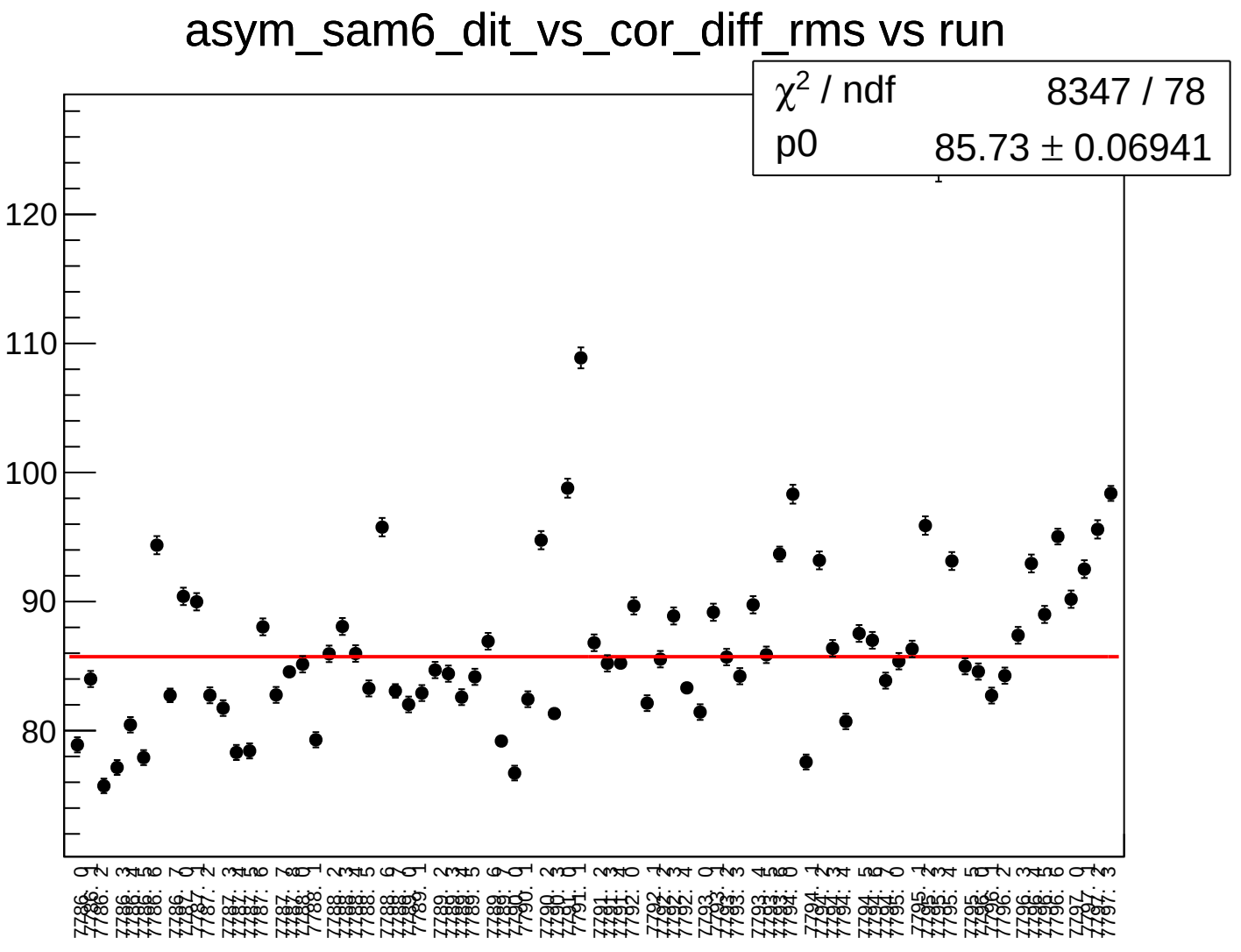

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 57.54 / 78
p0 4.076e−13 ± 2.72e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 79
Mean 48.36
Std Dev 22.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

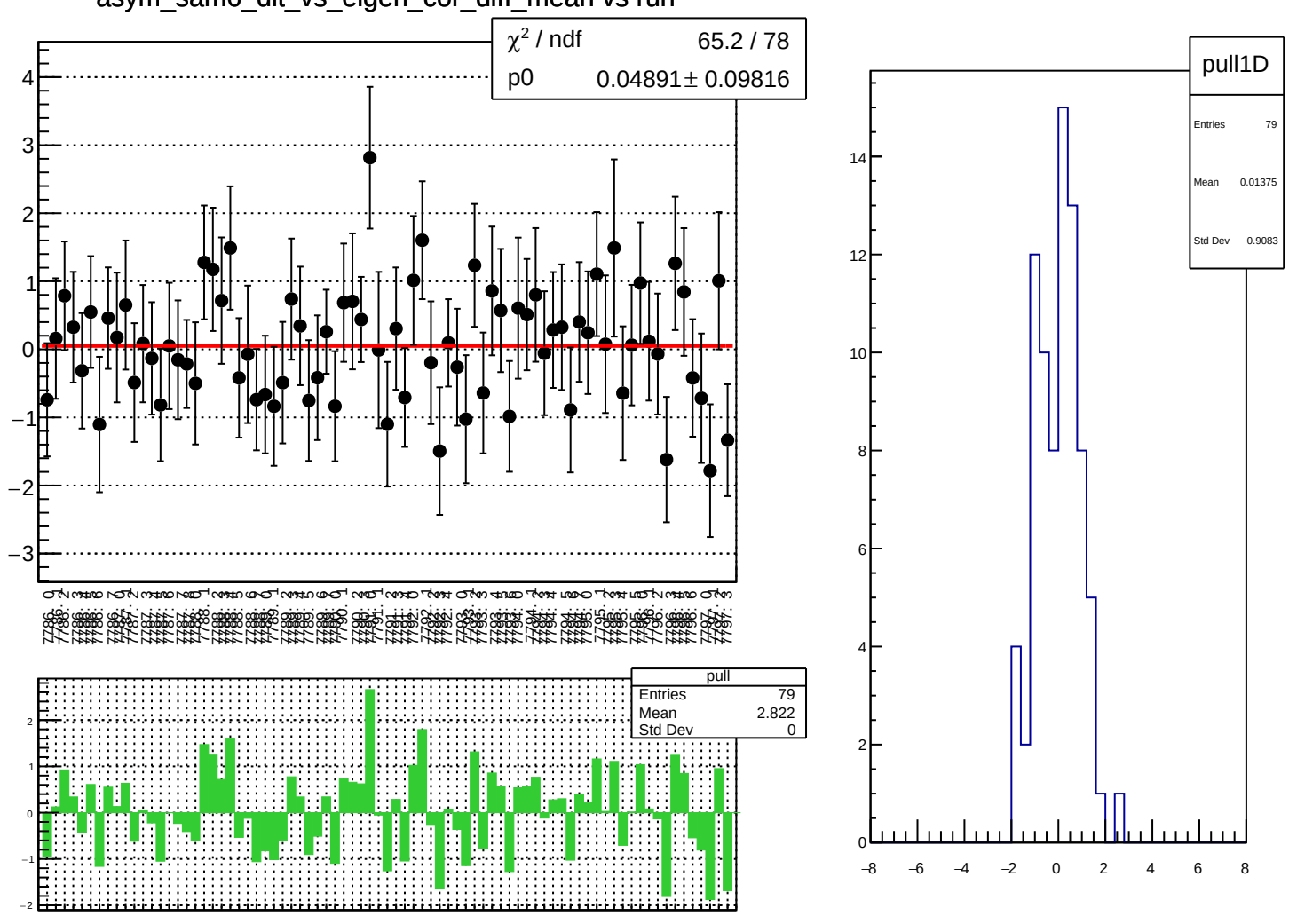

pull1D
Entries 79
Mean −0.1418
Std Dev 0.8416
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

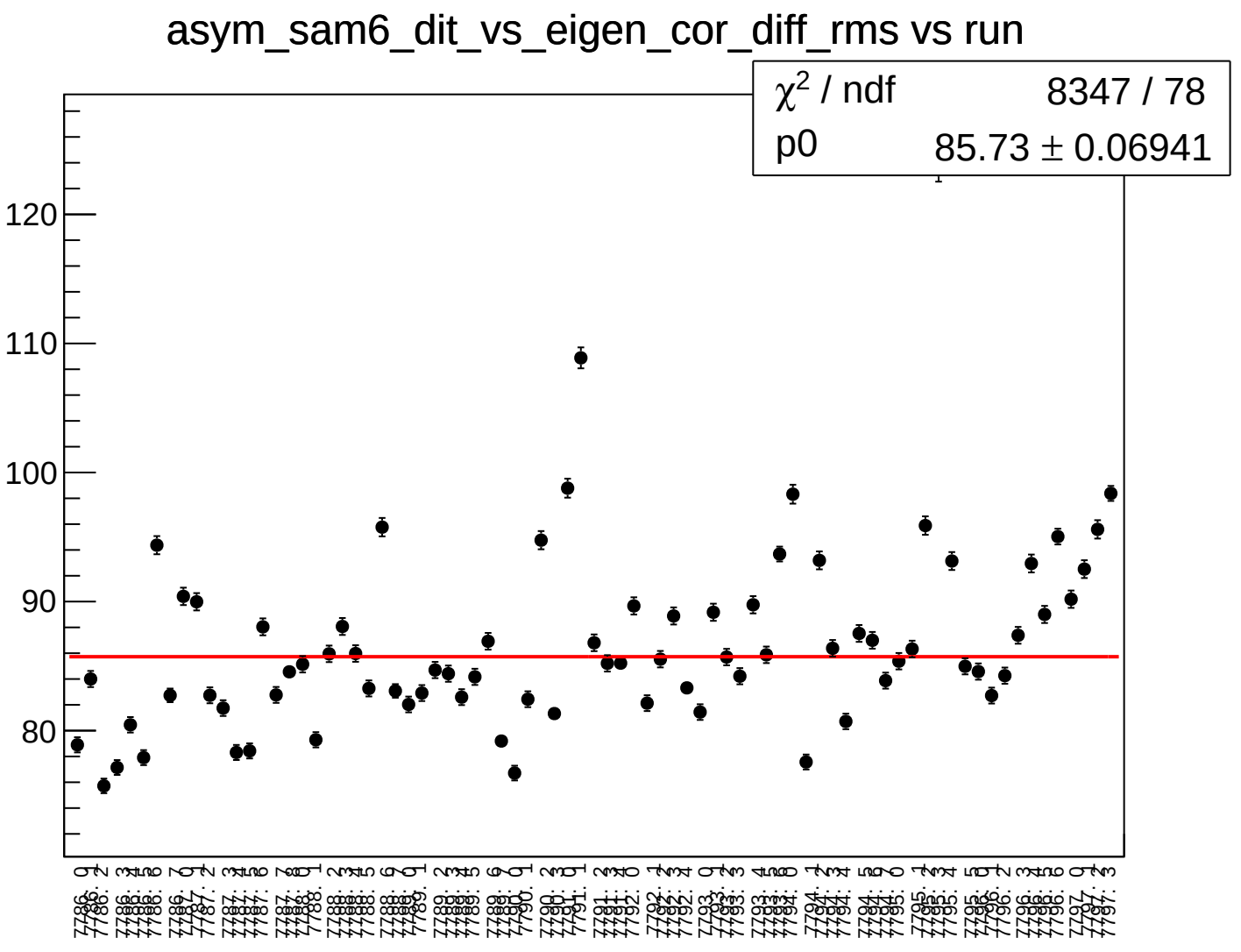

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 7.567e+05 / 78
p0 1.695e−10 ± 1.923e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

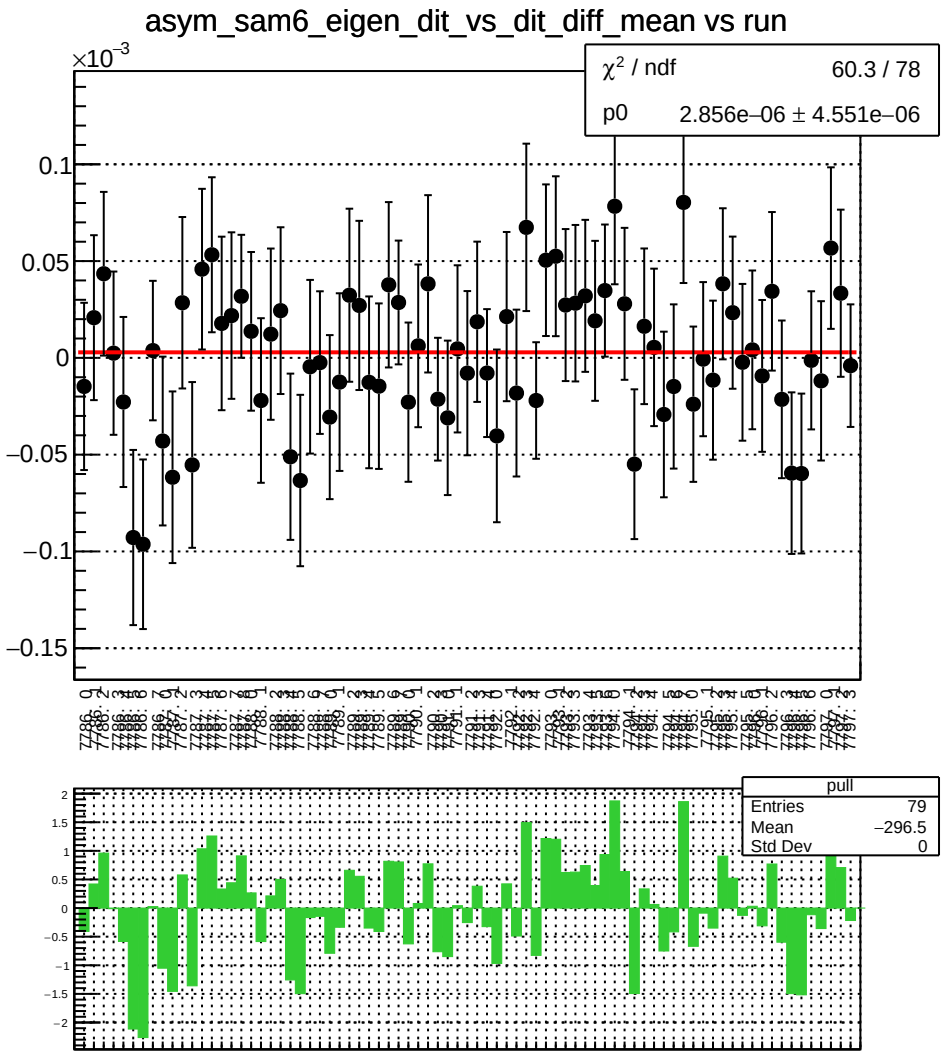

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 65.2 / 78
p0 0.04891 ± 0.09816
pull
Entries 79
Mean 2.822
Std Dev 0

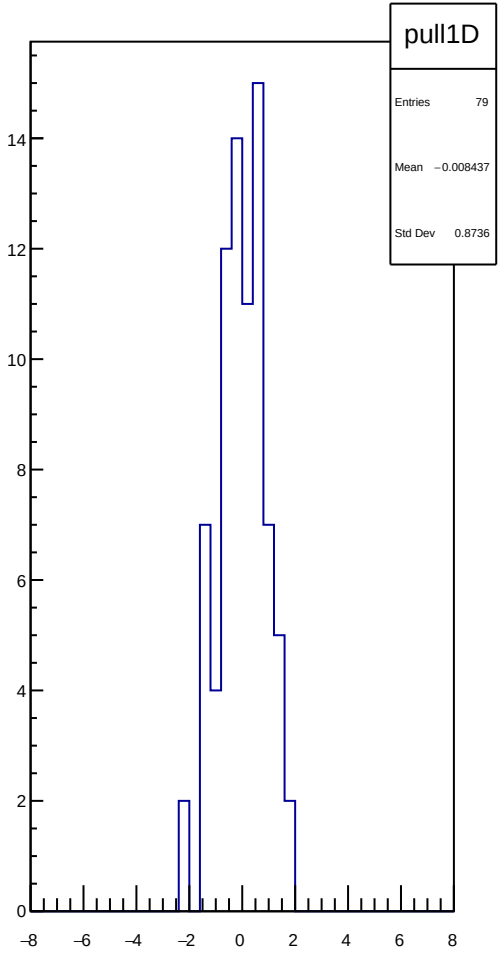

pull1D
Entries 79
Mean 0.01375
Std Dev 0.9083

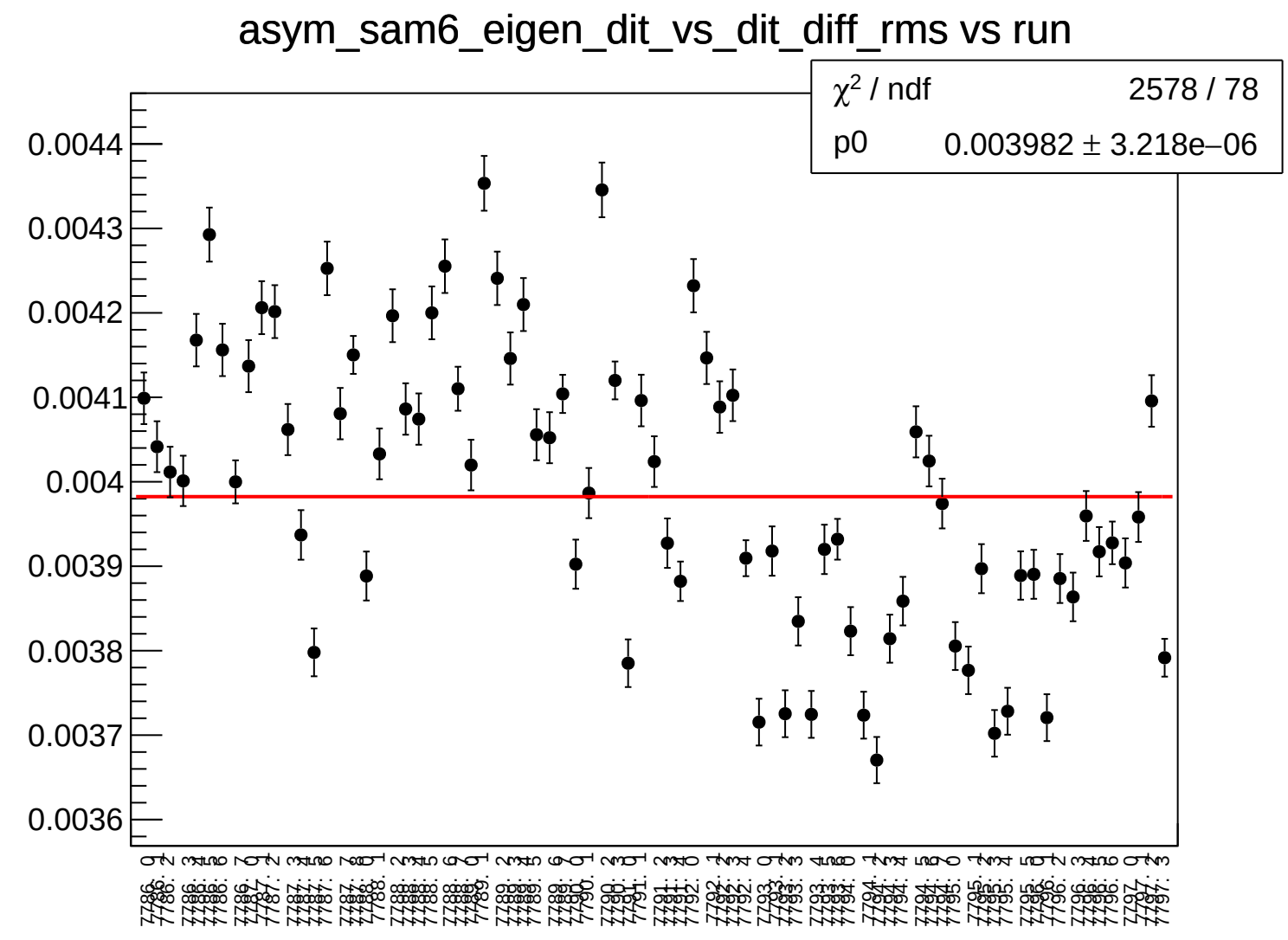

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8347 / 78
p0 85.73 ± 0.06941
120
110
100
90
80

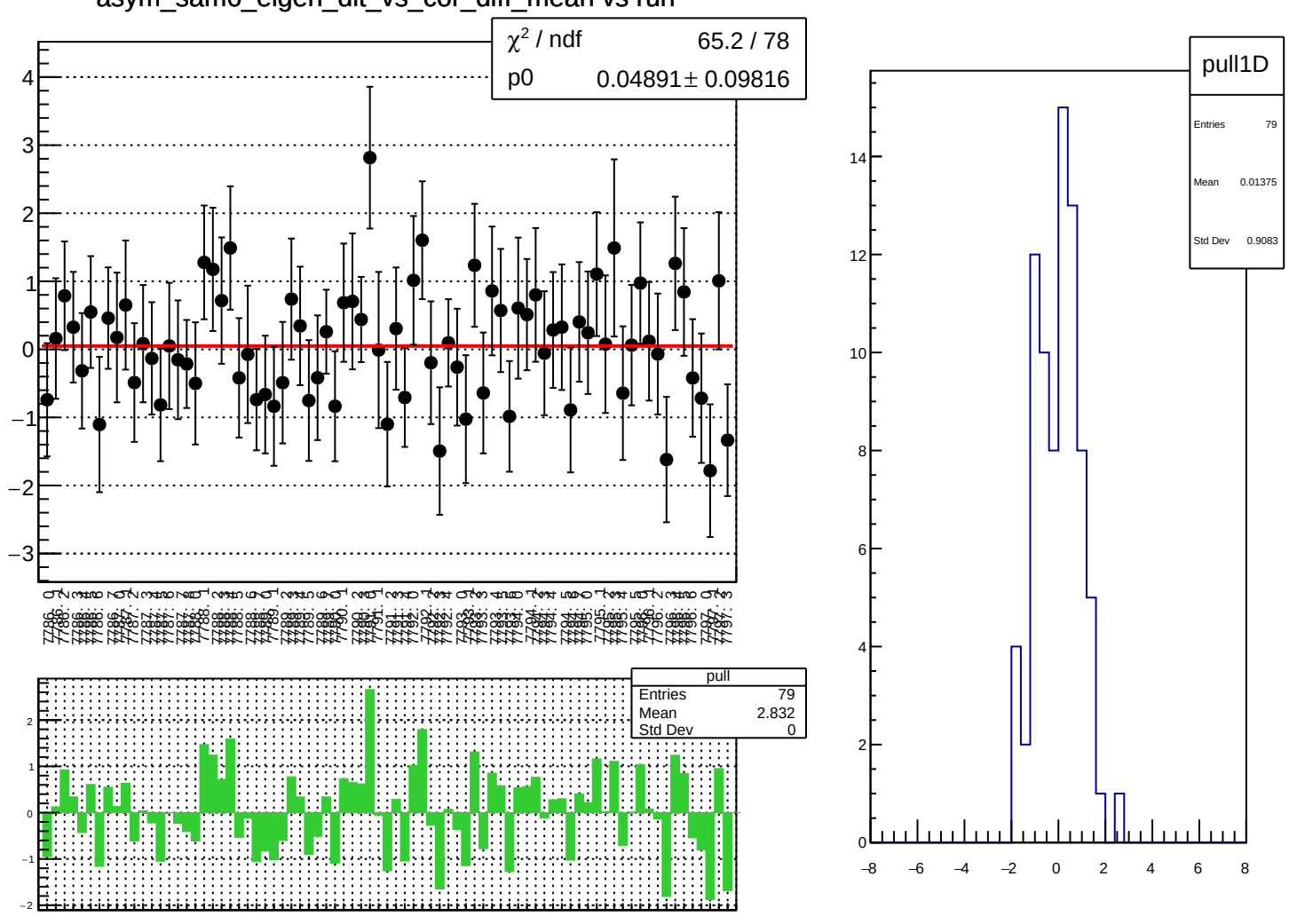

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.2 / 78
p0 0.04891 ± 0.09816
pull
Entries 79
Mean 2.822
Std Dev 0
pull1D
Entries 79
Mean 0.01375
Std Dev 0.9083

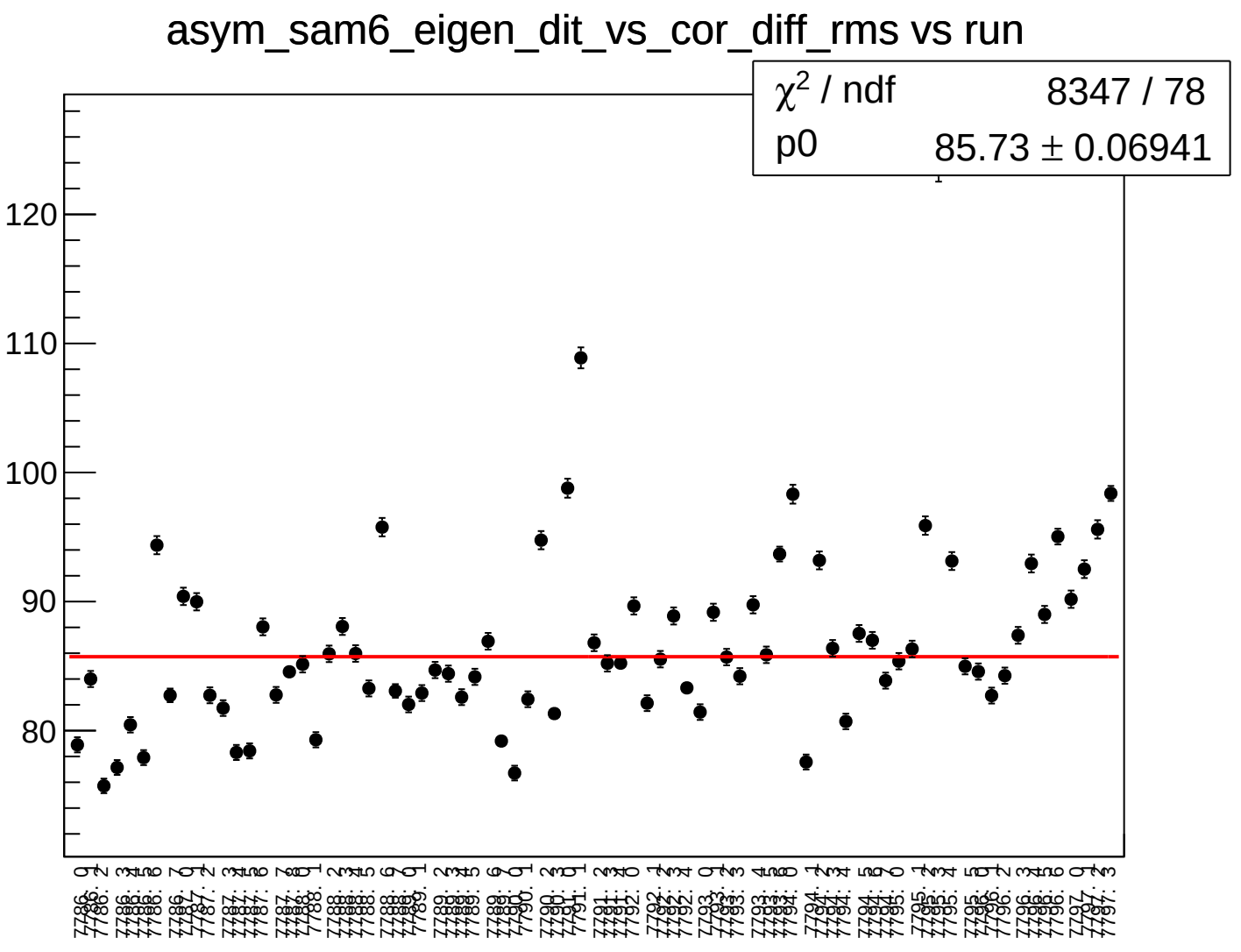

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8347 / 78
p0 85.73 ± 0.06941
120
110
100
90
80

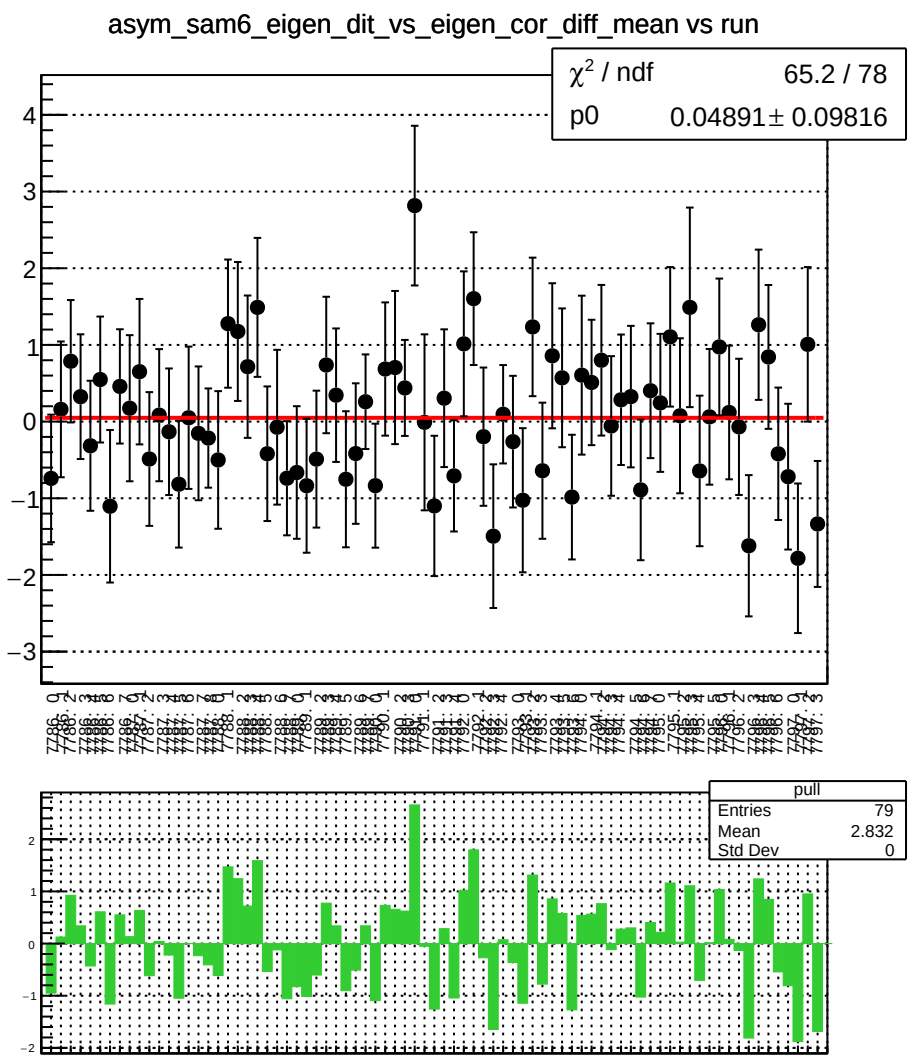

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 60.3 / 78
p0 2.856e−06 ± 4.551e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 79
Mean −296.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

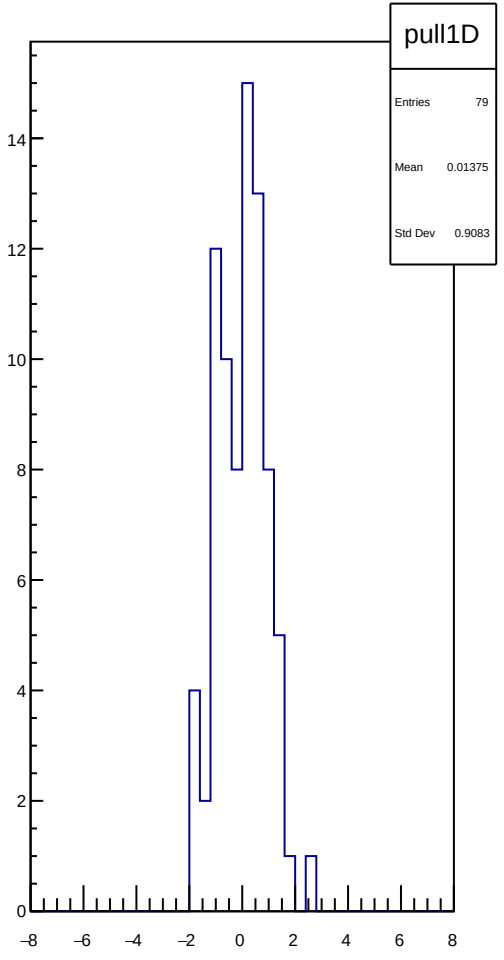

pull1D
Entries 79
Mean −0.008437
Std Dev 0.8736
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

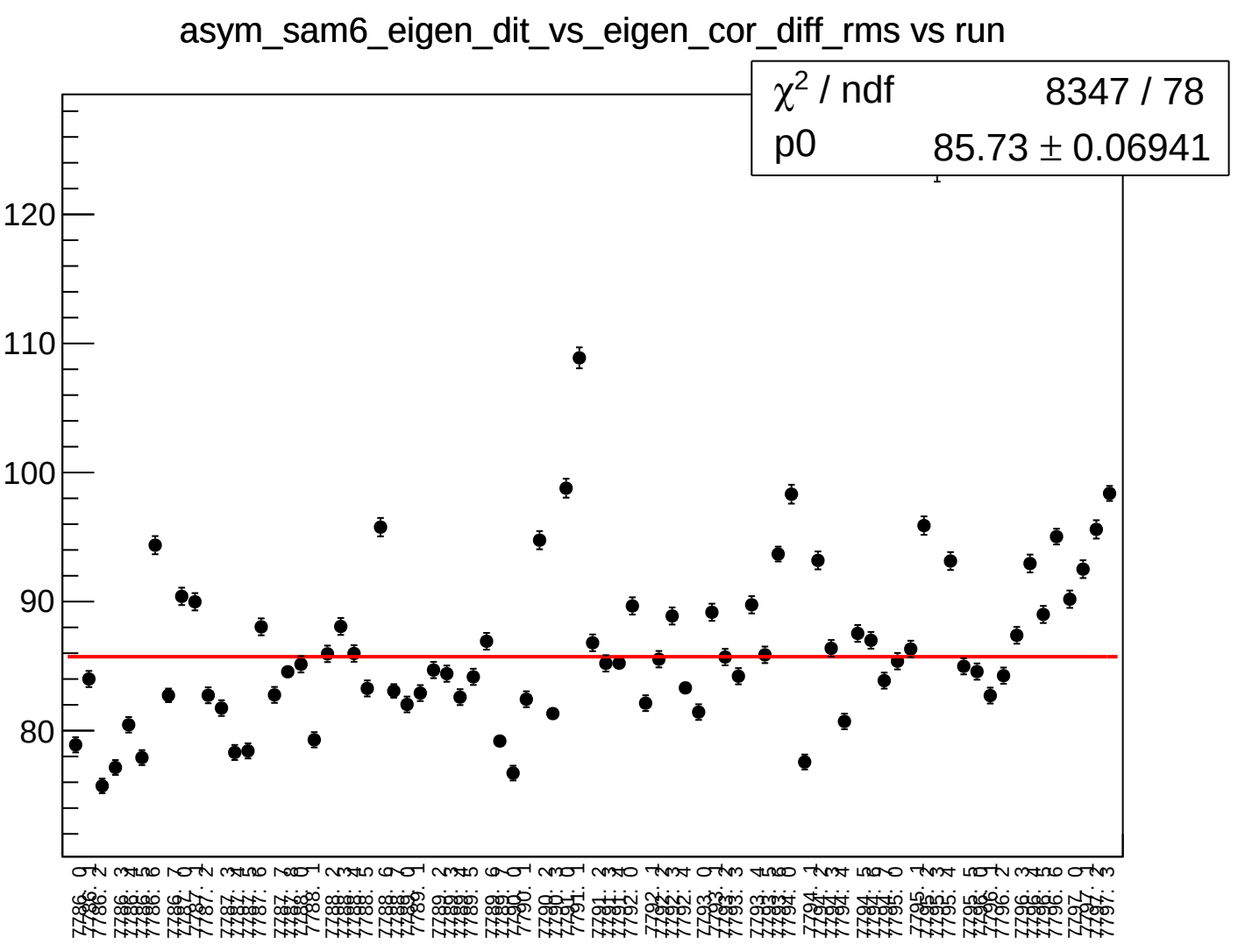

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2578 / 78
p0 0.003982 ± 3.218e−06
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036

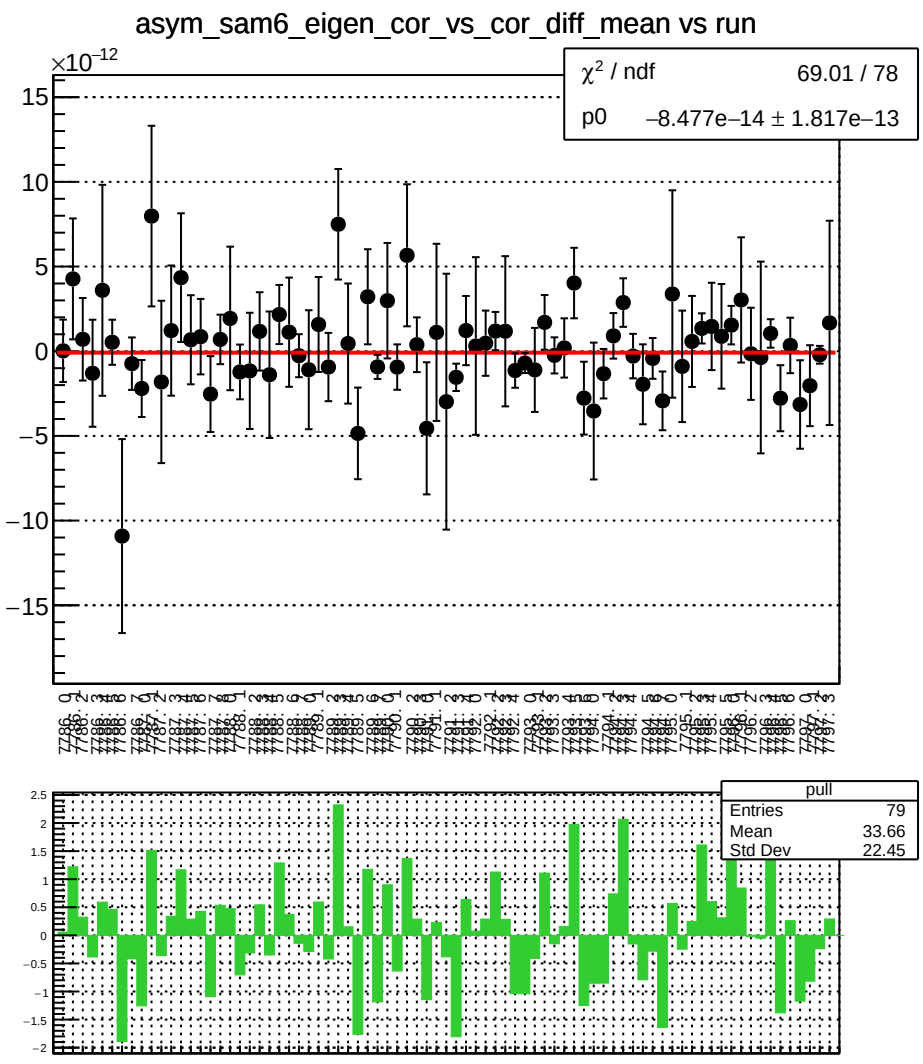

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.2 / 78
p0 0.04891 ± 0.09816
pull
Entries 79
Mean 2.832
Std Dev 0
pull1D
Entries 79
Mean 0.01375
Std Dev 0.9083

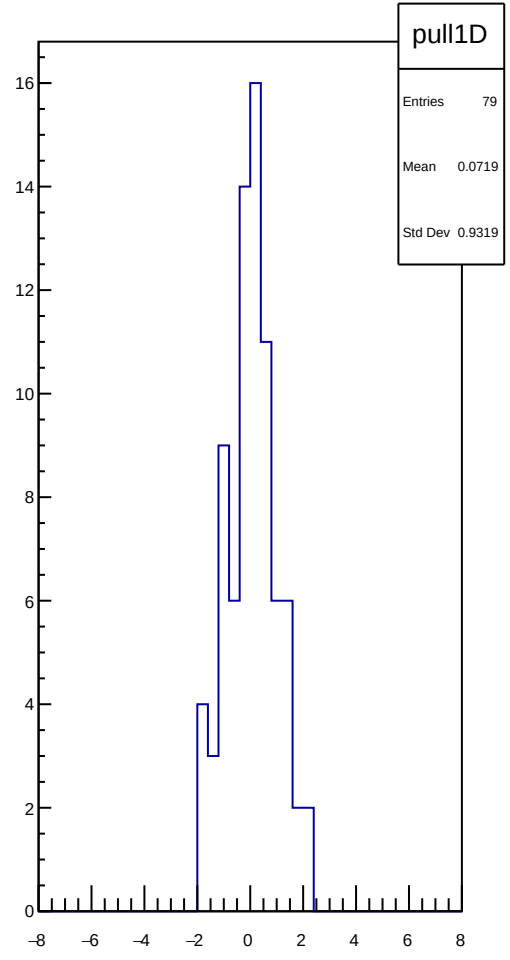

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8347 / 78
p0 85.73 ± 0.06941
120
110
100
90
80

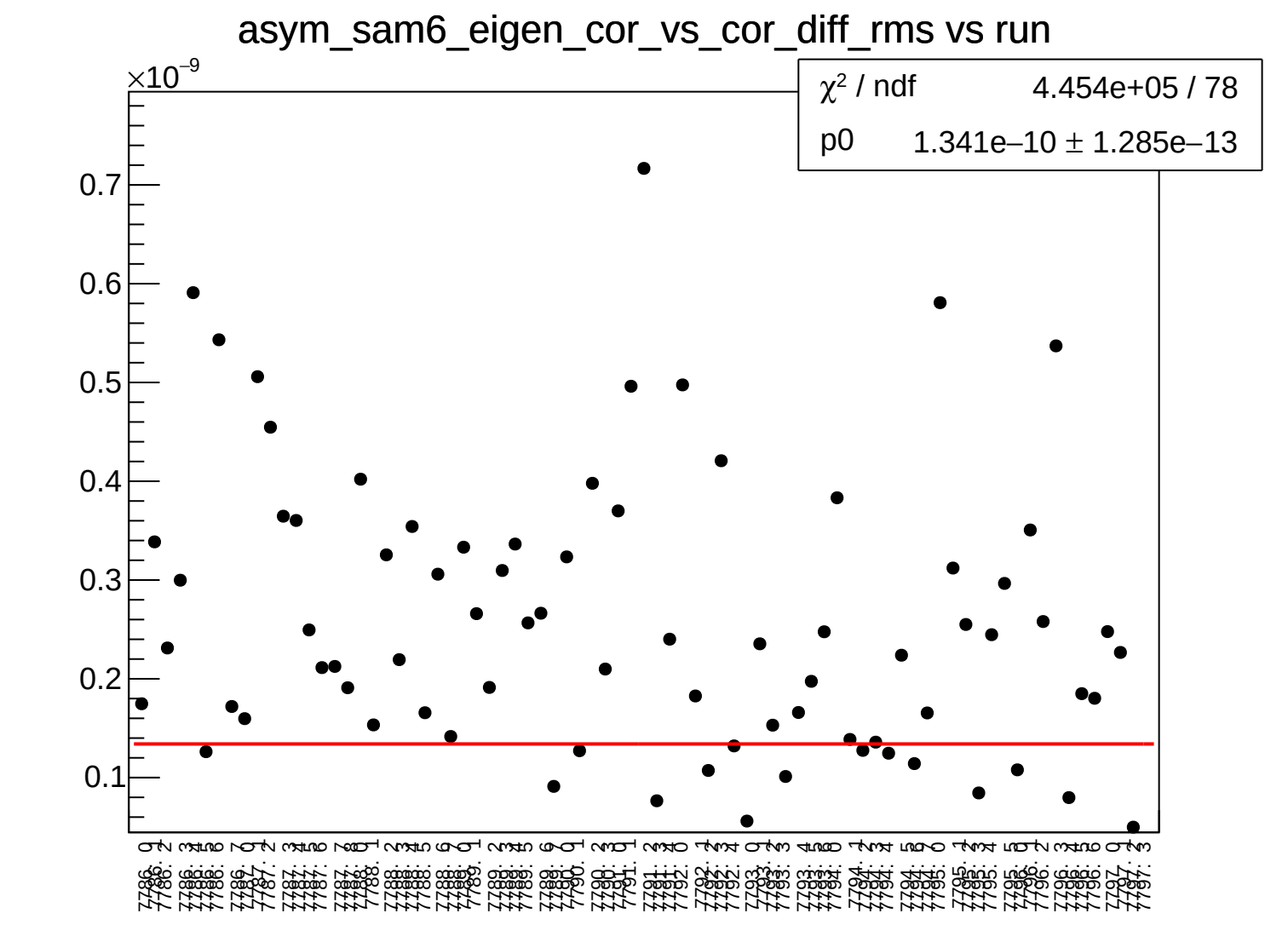

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.2 / 78
p0 0.04891 ± 0.09816
pull
Entries 79
Mean 2.832
Std Dev 0

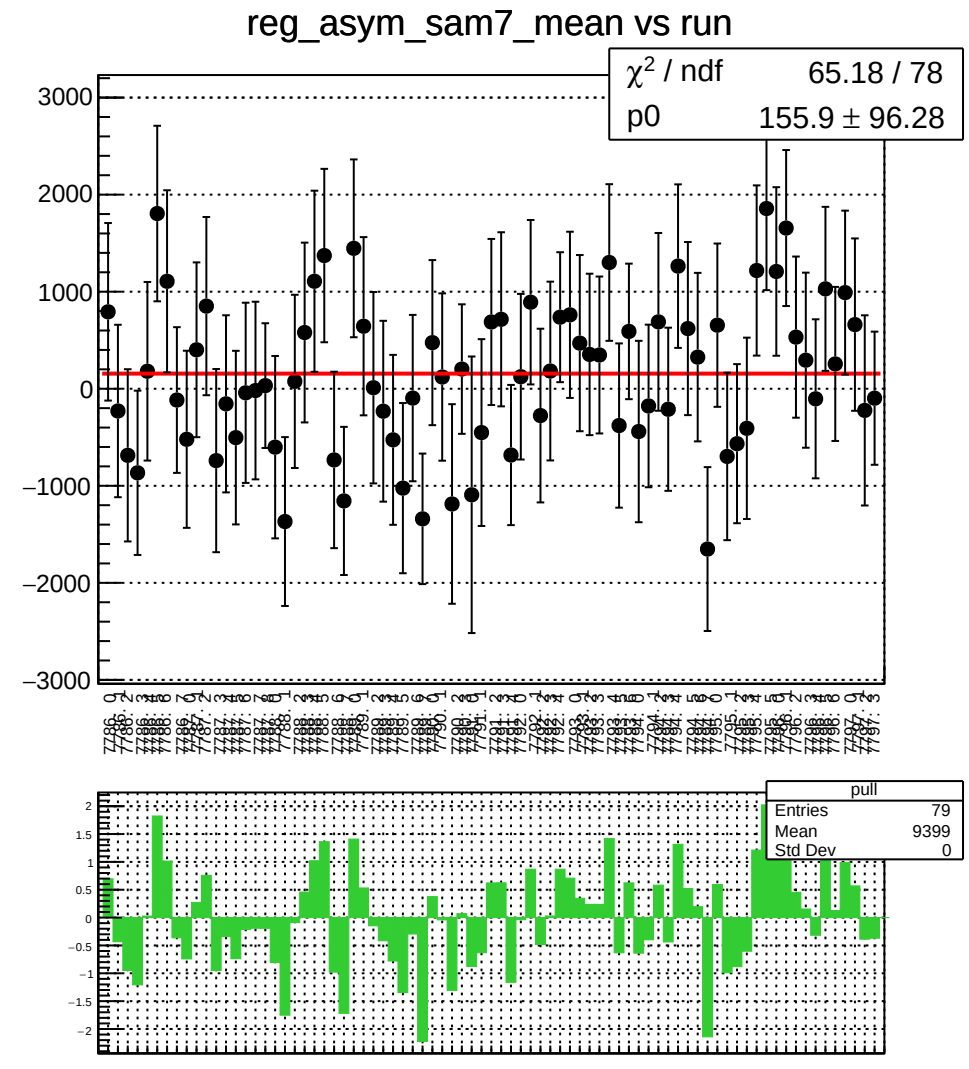

pull1D
Entries 79
Mean 0.01375
Std Dev 0.9083

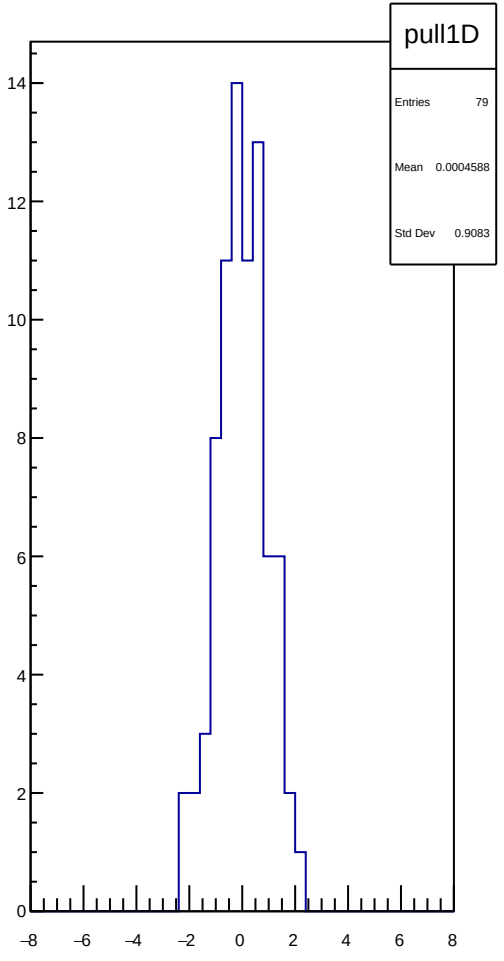

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8347 / 78
p0 85.73 ± 0.06941
120
110
100
90
80

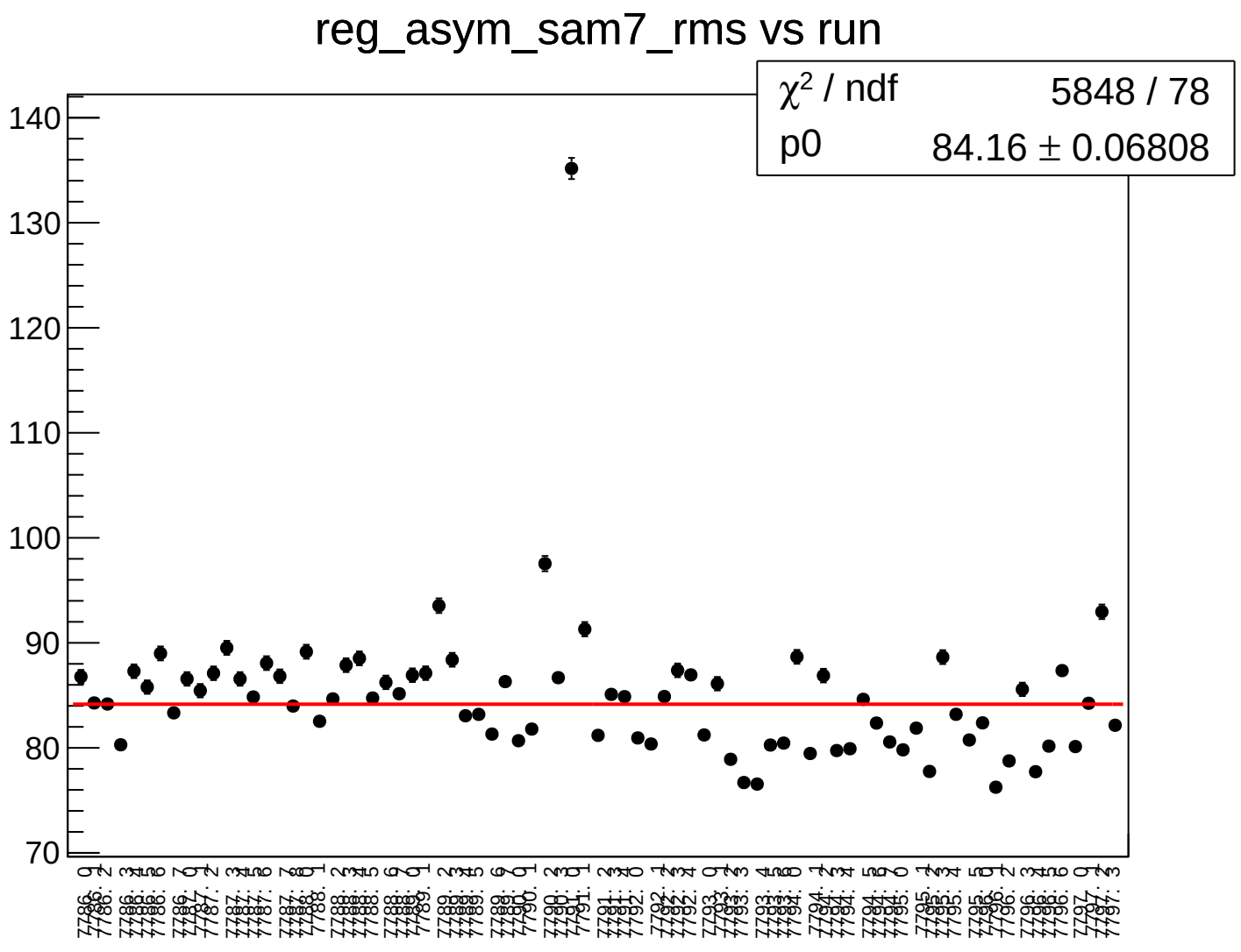

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.01 / 78
p0 −8.477e−14 ± 1.817e−13
pull
Entries 79
Mean 33.66
Std Dev 22.45

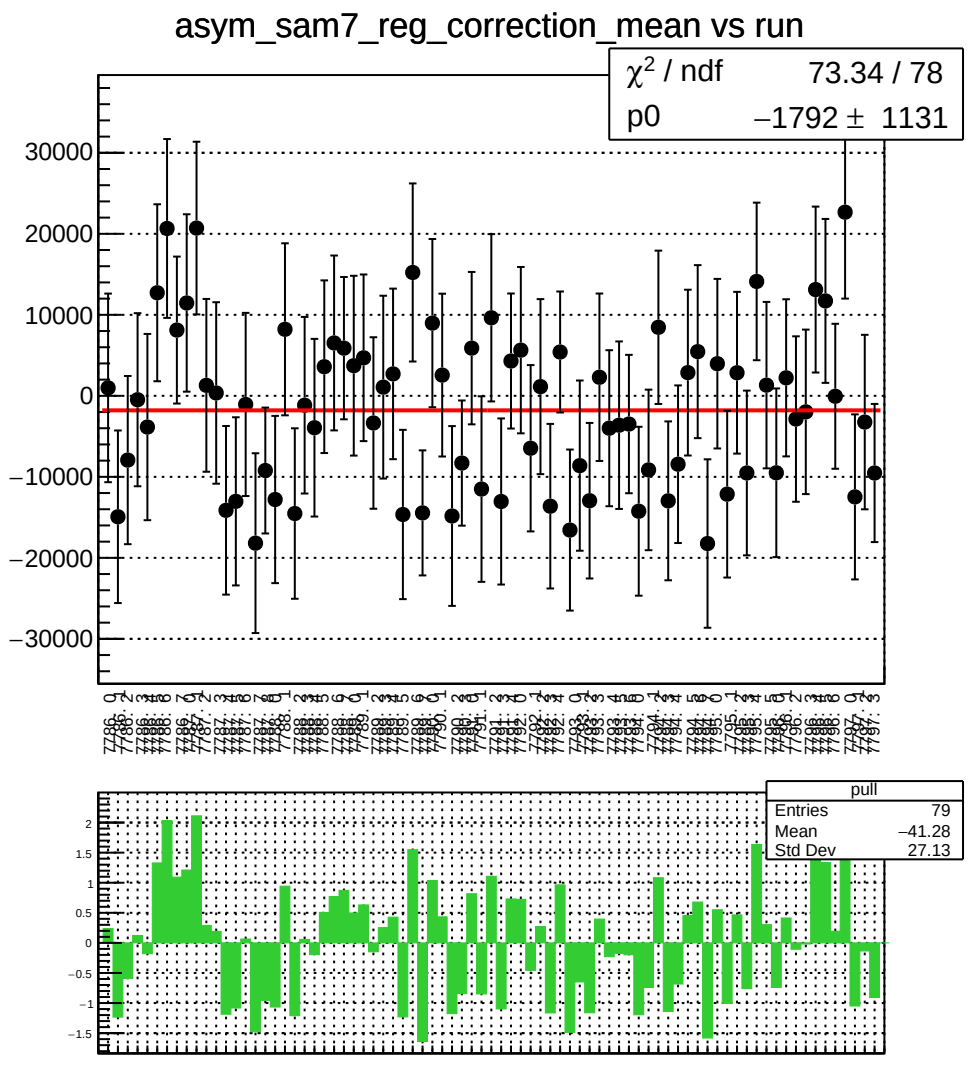

pull1D
Entries 79
Mean 0.0719
Std Dev 0.9319

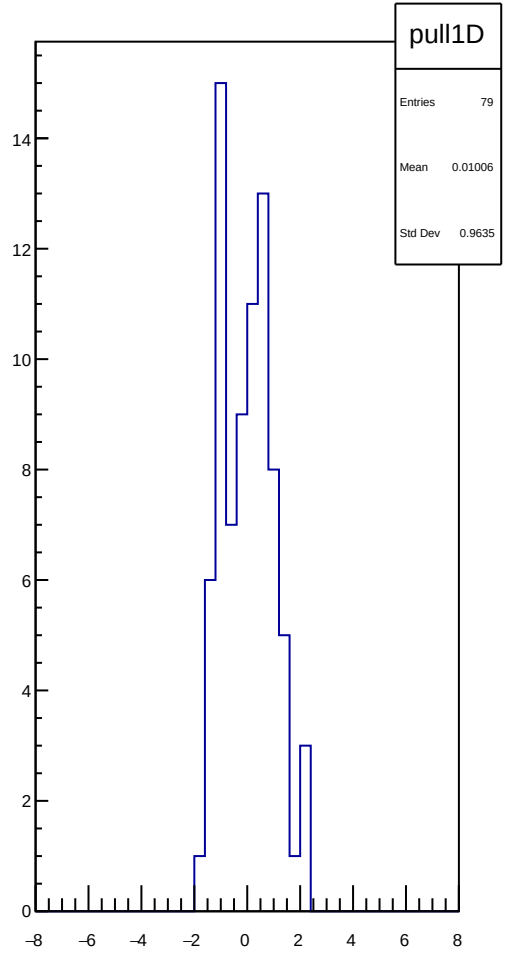

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.454e+05 / 78
p0 1.341e−10 ± 1.285e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

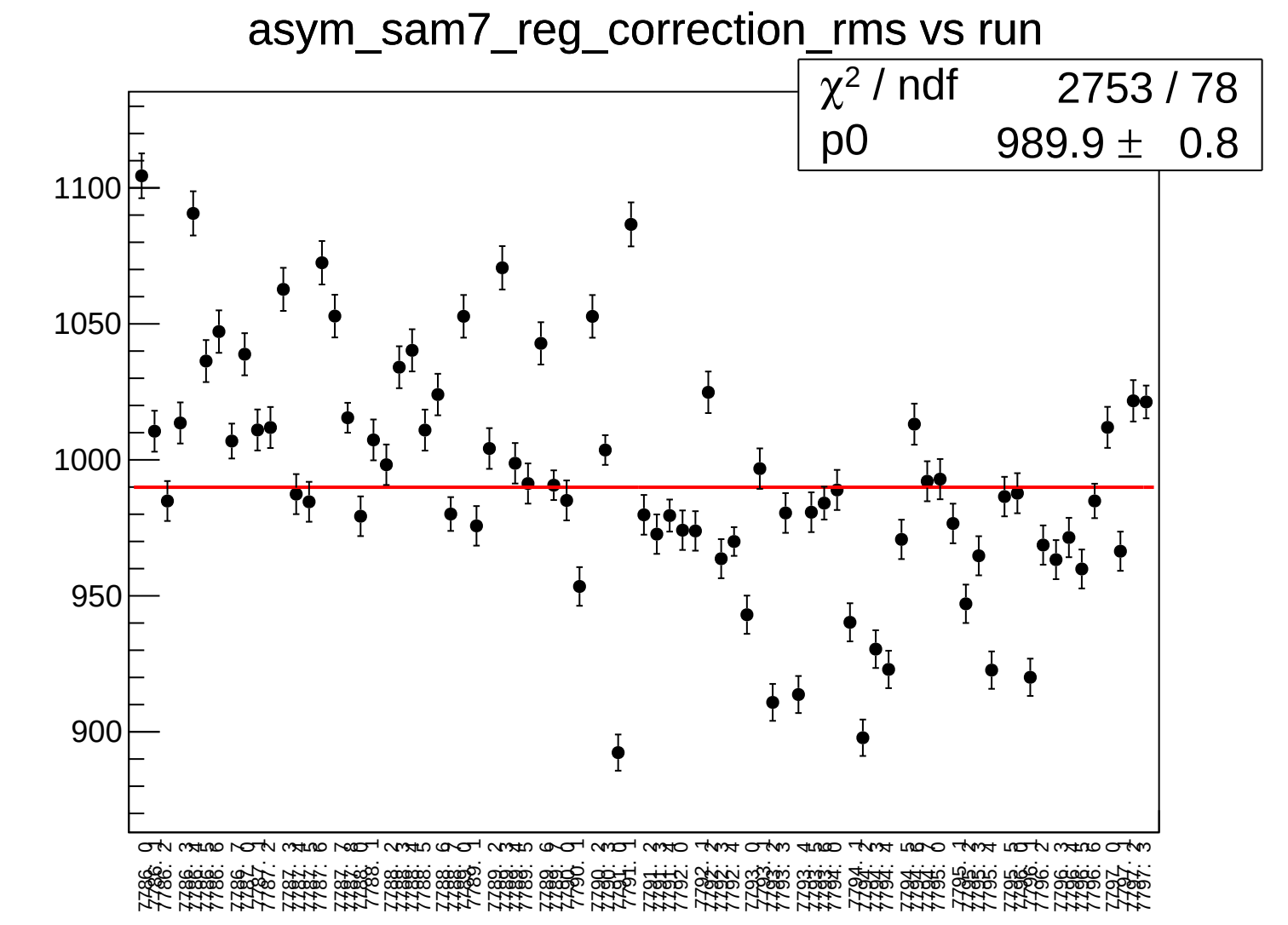

reg_asym_sam7_mean vs run
χ^2 / ndf 65.18 / 78
p0 155.9 ± 96.28
pull
Entries 79
Mean 9399
Std Dev 0

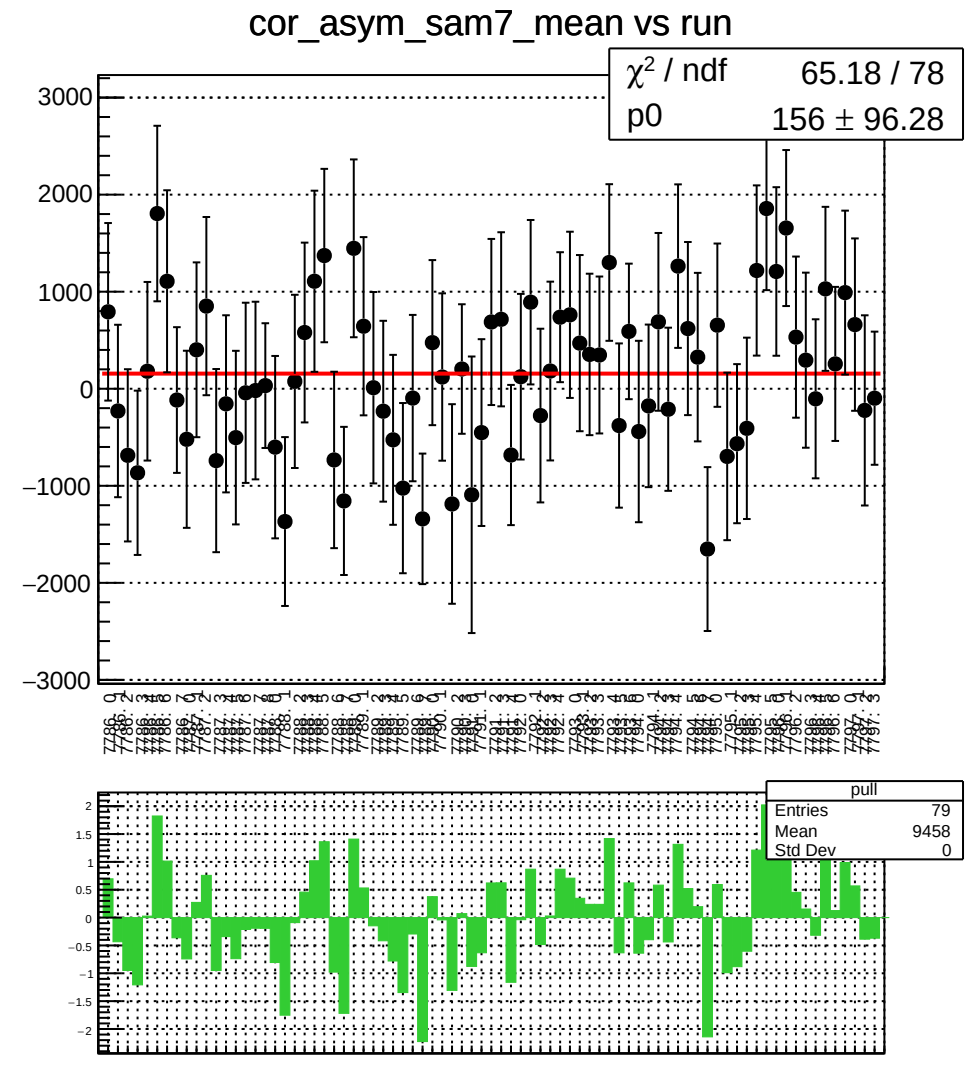

pull1D
Entries 79
Mean 0.0004588
Std Dev 0.9083

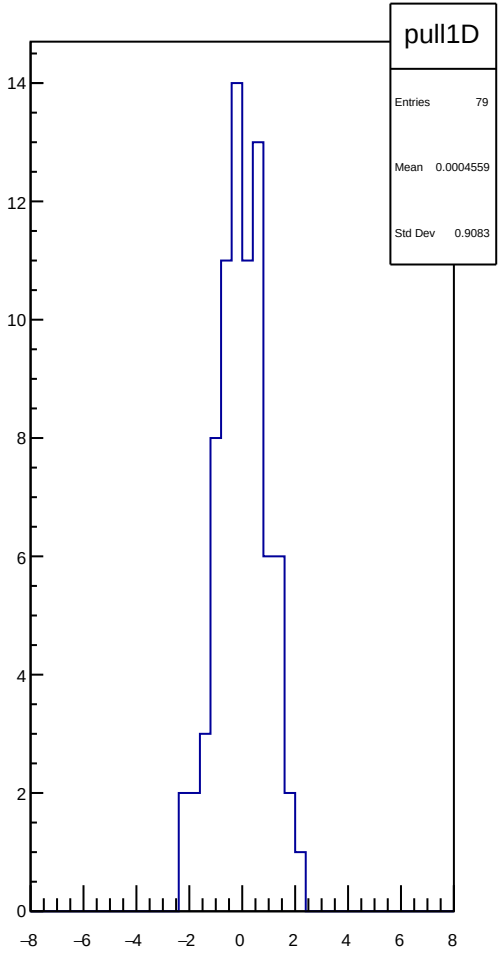

reg_asym_sam7_rms vs run
χ^2 / ndf 5848 / 78
p0 84.16 ± 0.06808
140
130
120
110
100
90
80
70

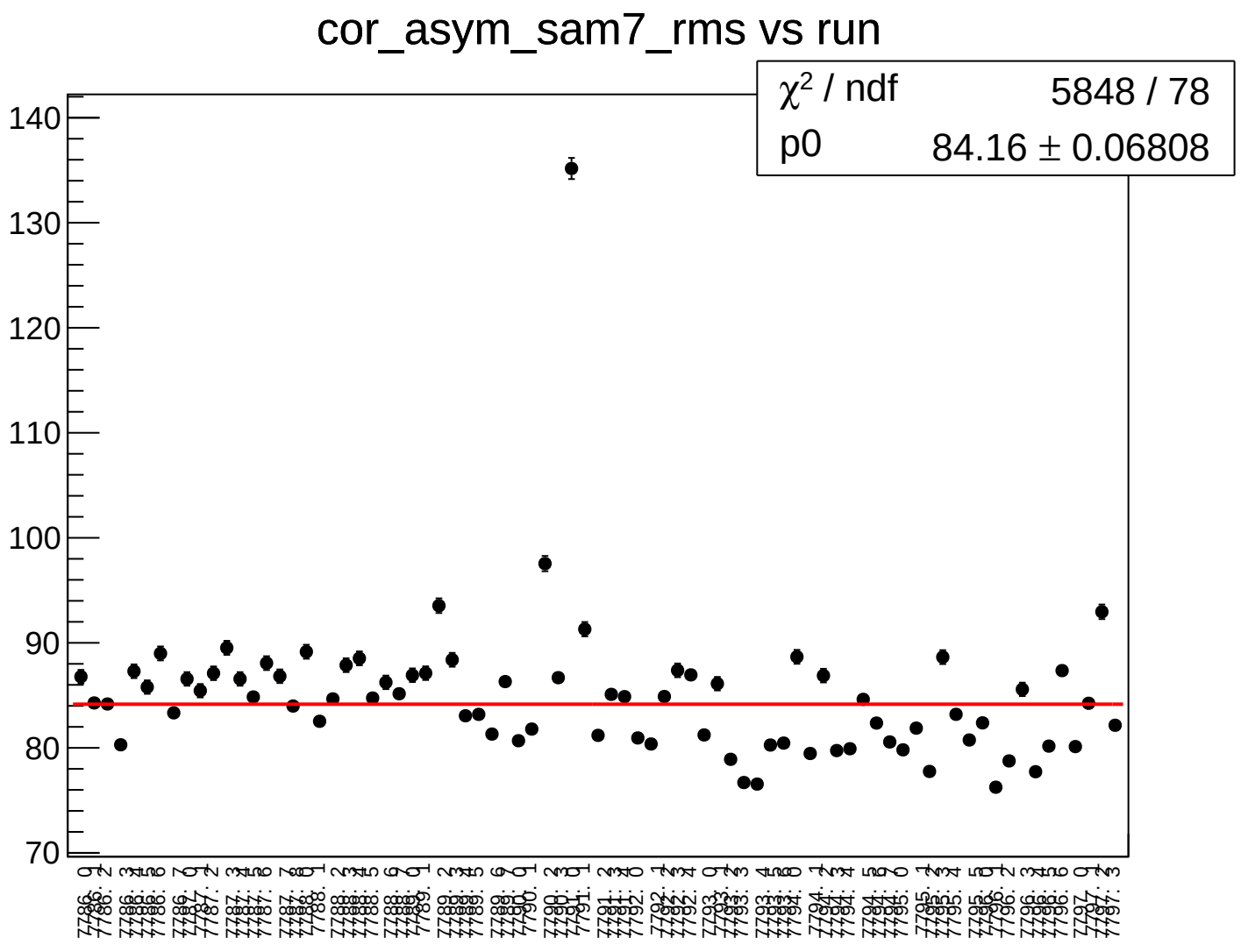

asym_sam7_reg_correction_mean vs run
χ² / ndf 73.34 / 78
p0 −1792 ± 1131
pull
Entries 79
Mean −41.28
Std Dev 27.13

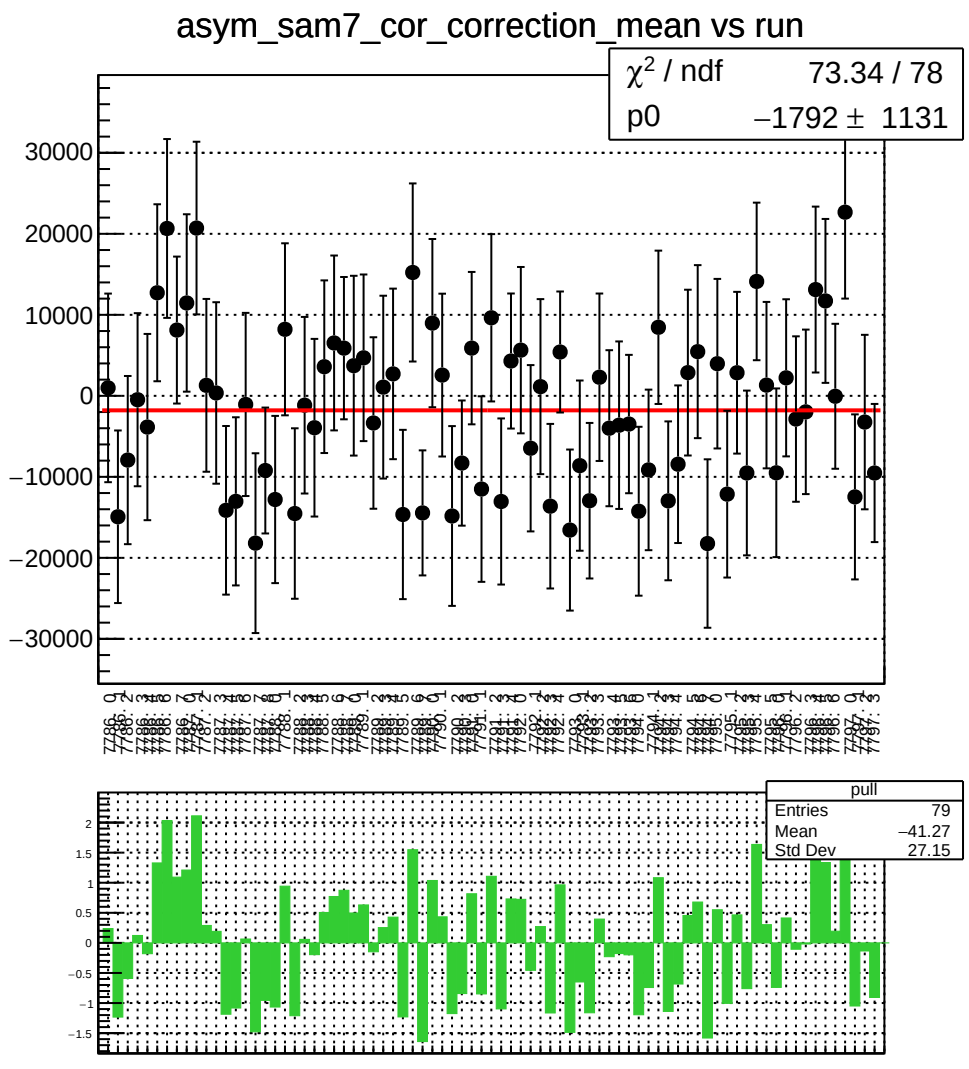

pull1D
Entries 79
Mean 0.01006
Std Dev 0.9635

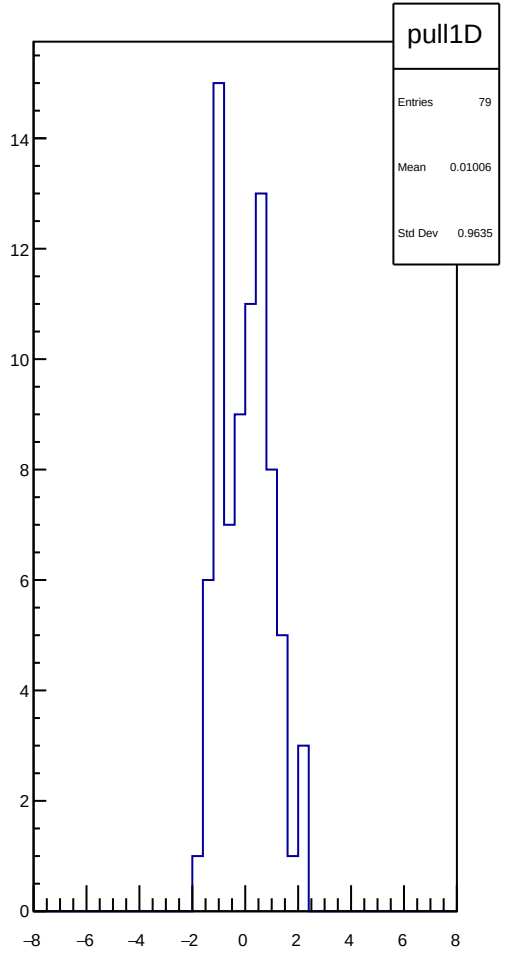

asym_sam7_reg_correction_rms vs run
χ² / ndf 2753 / 78
p0 989.9 ± 0.8
1100
1050
1000
950
900

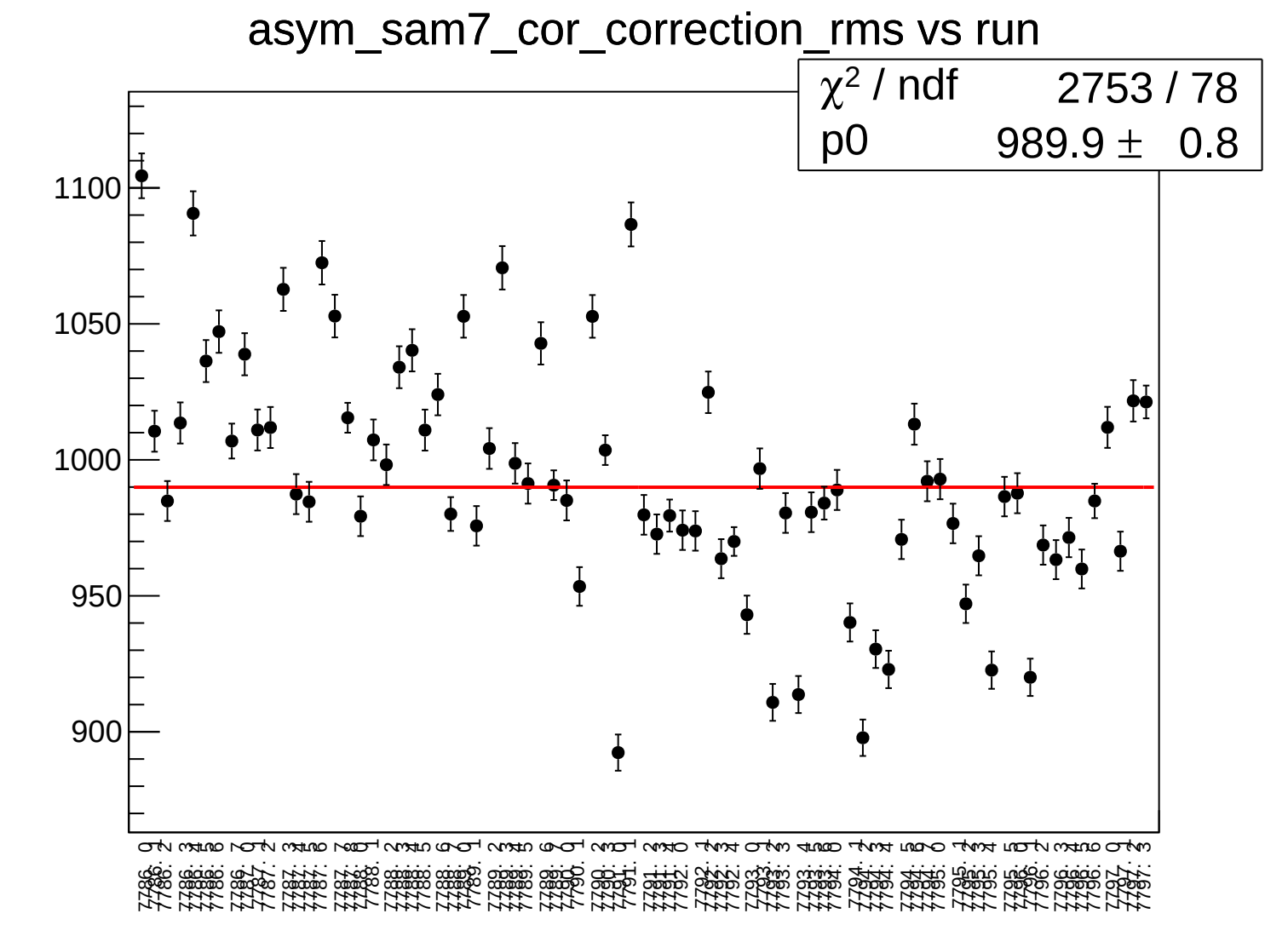

cor_asym_sam7_mean vs run
χ² / ndf 65.18 / 78
p0 156 ± 96.28
pull
Entries 79
Mean 9458
Std Dev 0

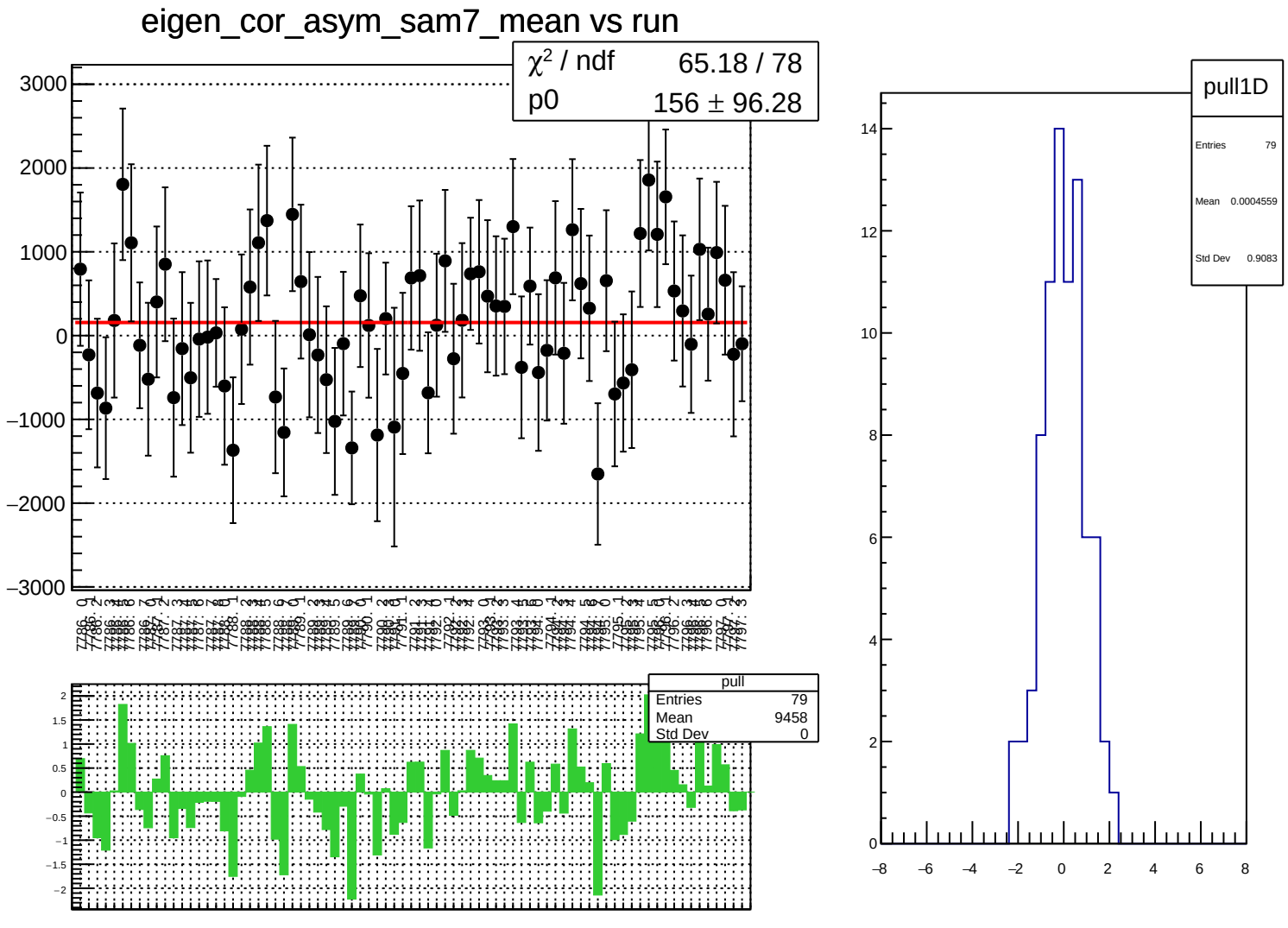

pull1D
Entries 79
Mean 0.0004559
Std Dev 0.9083

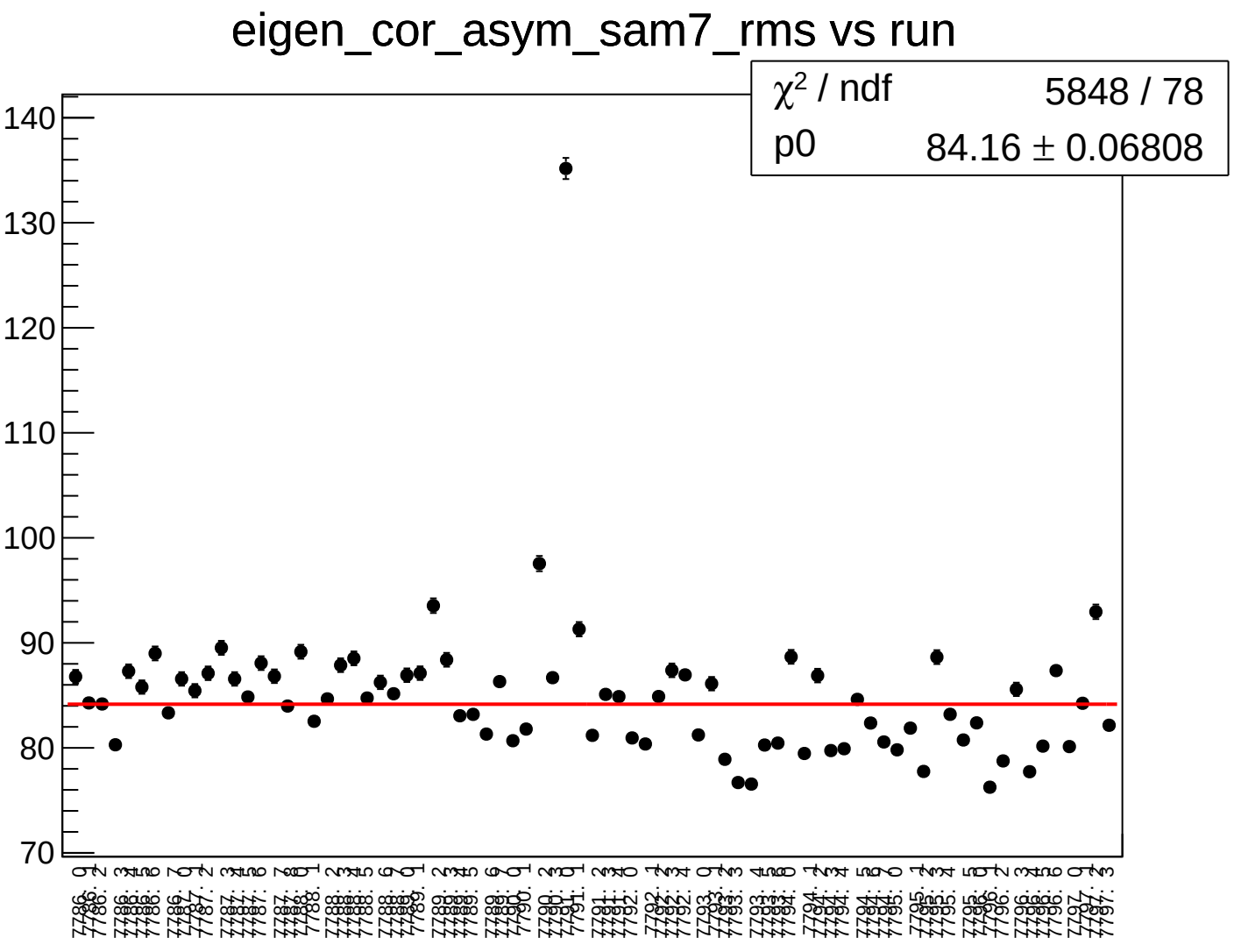

cor_asym_sam7_rms vs run
χ^2 / ndf 5848 / 78
p0 84.16 ± 0.06808
140
130
120
110
100
90
80
70

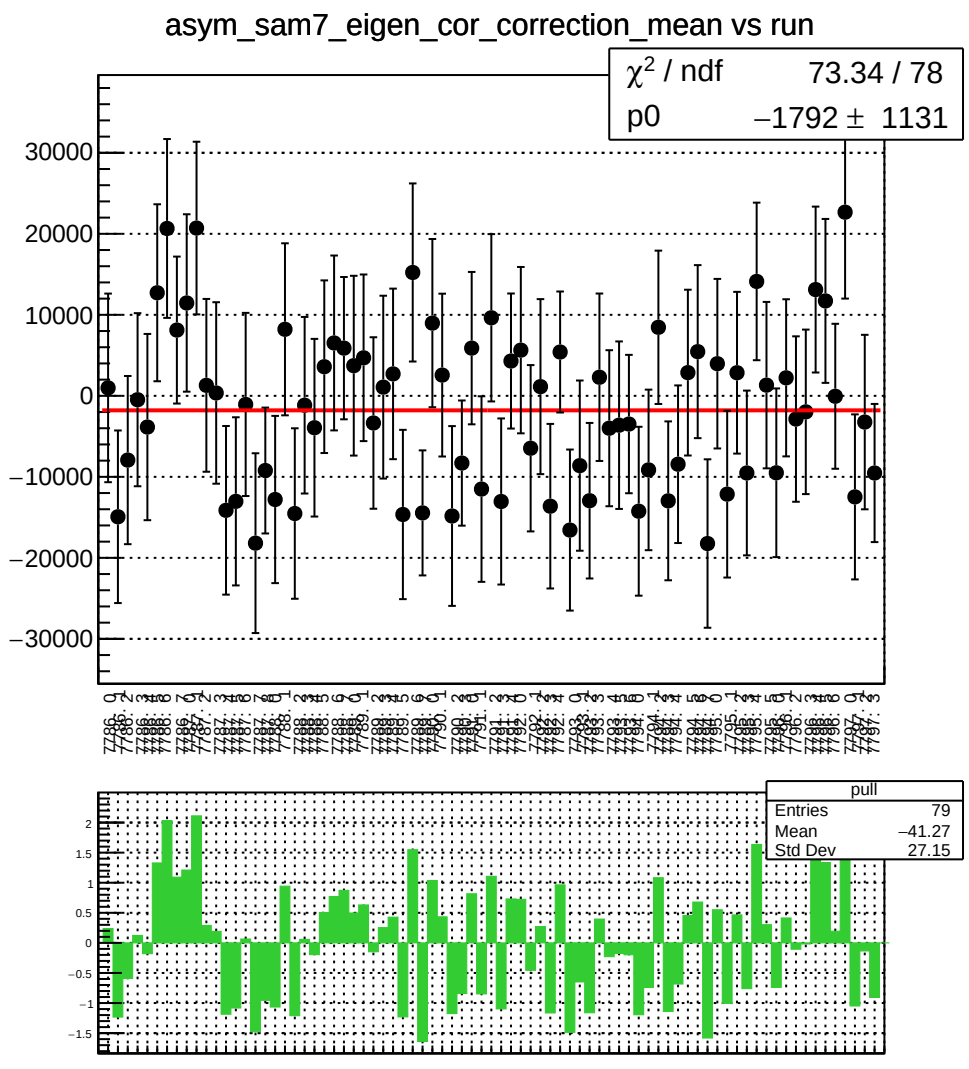

asym_sam7_cor_correction_mean vs run
χ² / ndf 73.34 / 78
p0 −1792 ± 1131
pull
Entries 79
Mean −41.27
Std Dev 27.15

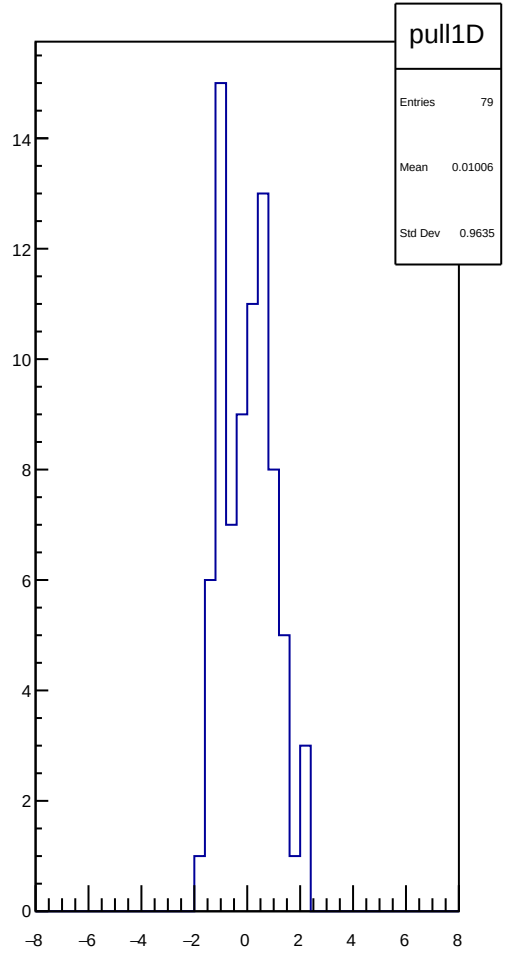

pull1D
Entries 79
Mean 0.01006
Std Dev 0.9635

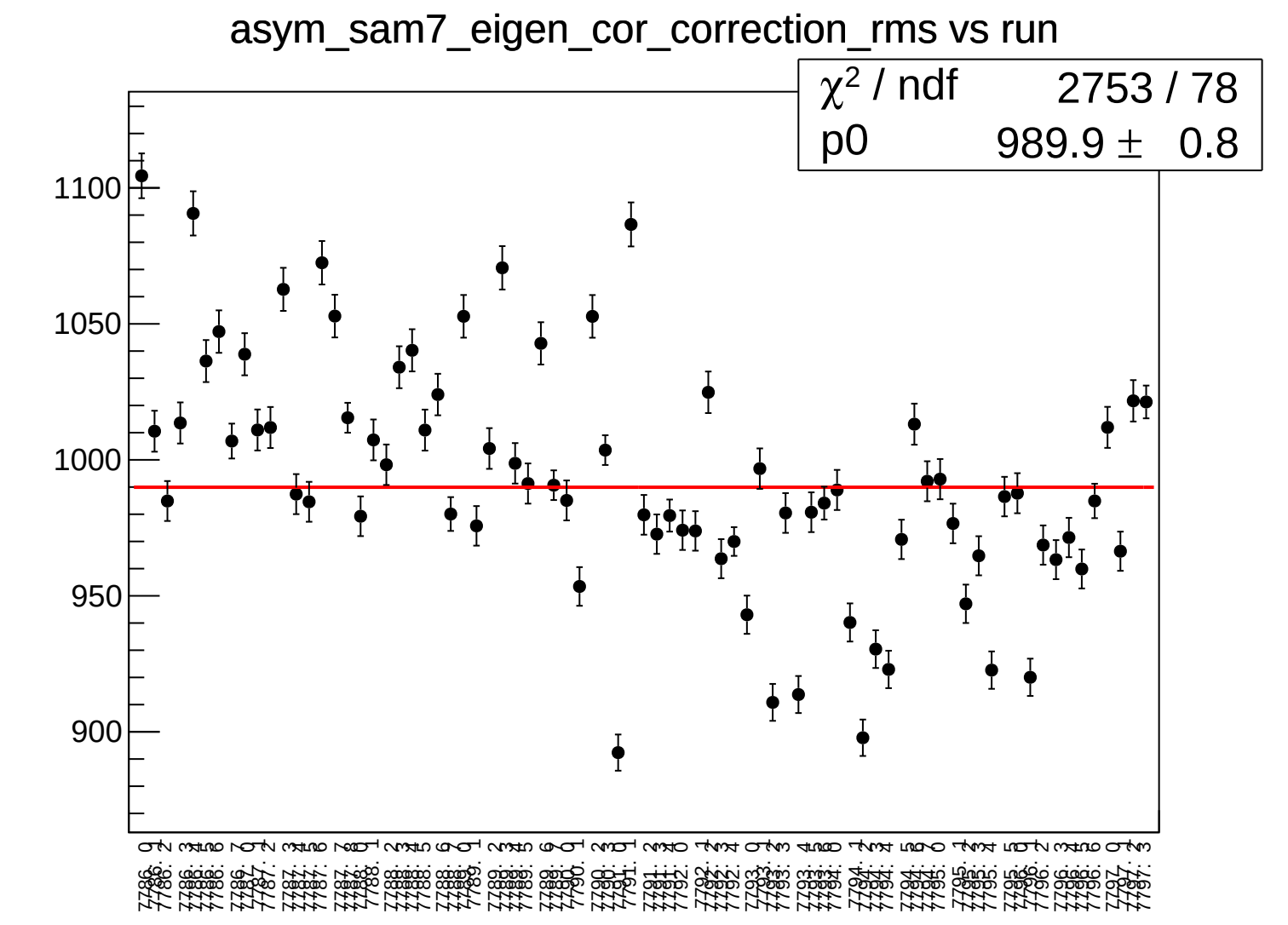

asym_sam7_cor_correction_rms vs run
χ² / ndf 2753 / 78
p0 989.9 ± 0.8
1100
1050
1000
950
900

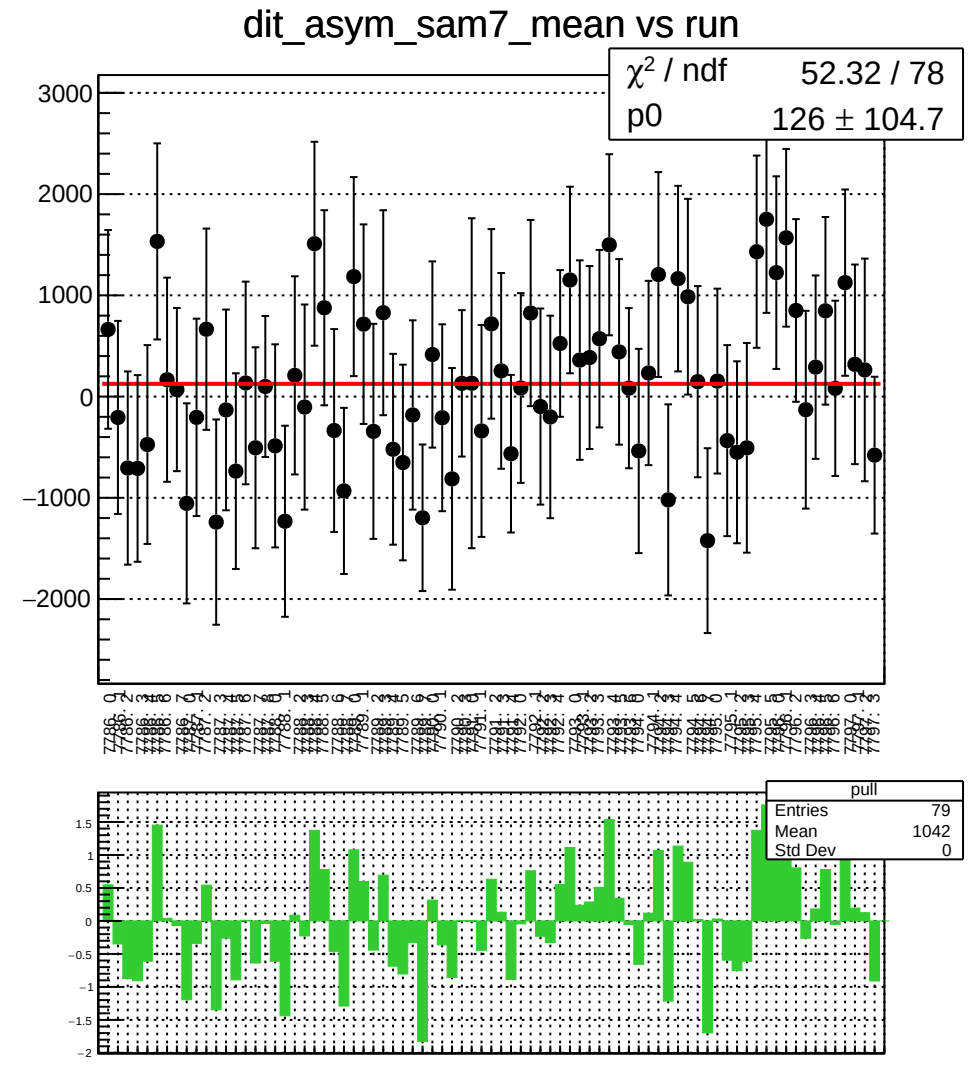

eigen_cor_asym_sam7_mean vs run
χ² / ndf 65.18 / 78
p0 156 ± 96.28
pull
Entries 79
Mean 9458
Std Dev 0
pull1D
Entries 79
Mean 0.0004559
Std Dev 0.9083

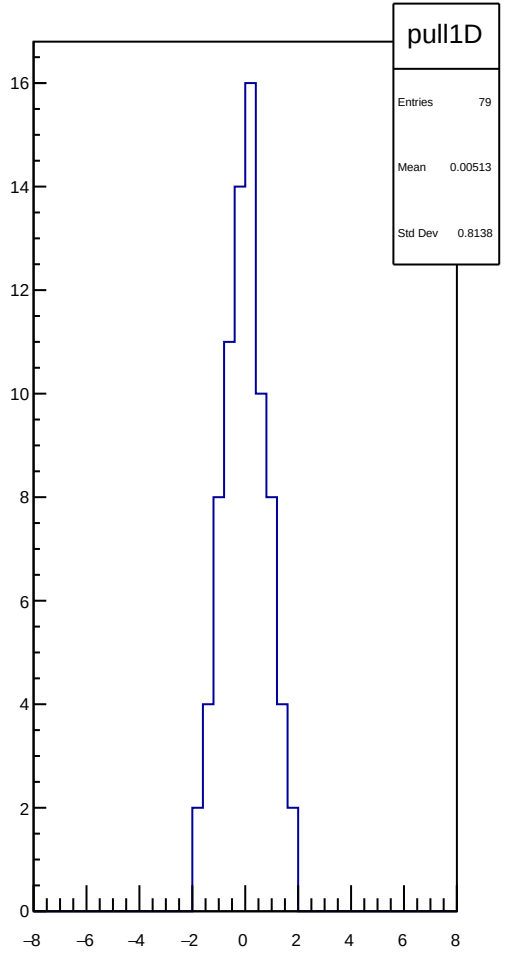

eigen_cor_asym_sam7_rms vs run
χ² / ndf 5848 / 78
p0 84.16 ± 0.06808
140
130
120
110
100
90
80
70

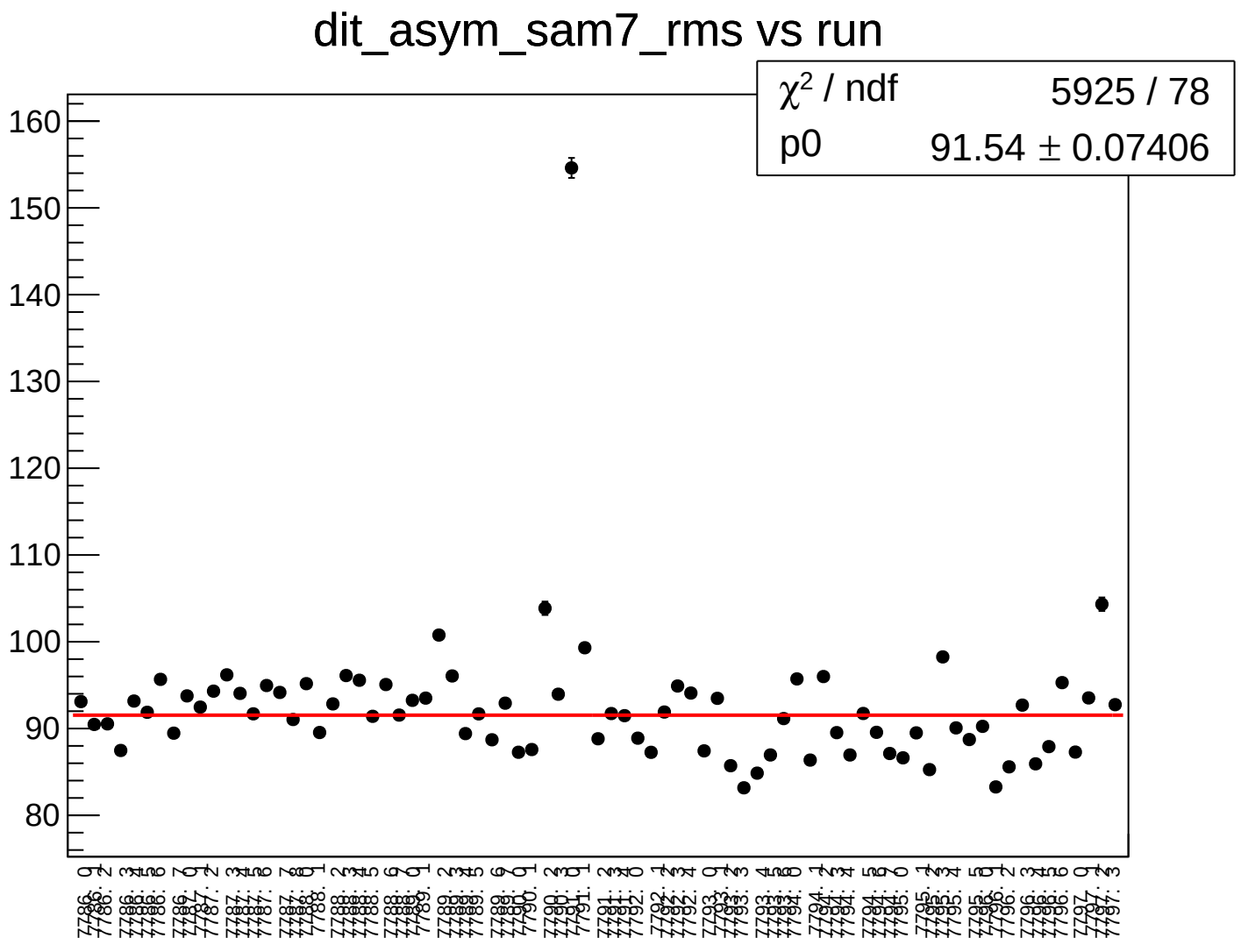

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 73.34 / 78
p0 −1792 ± 1131
pull
Entries 79
Mean −41.27
Std Dev 27.15

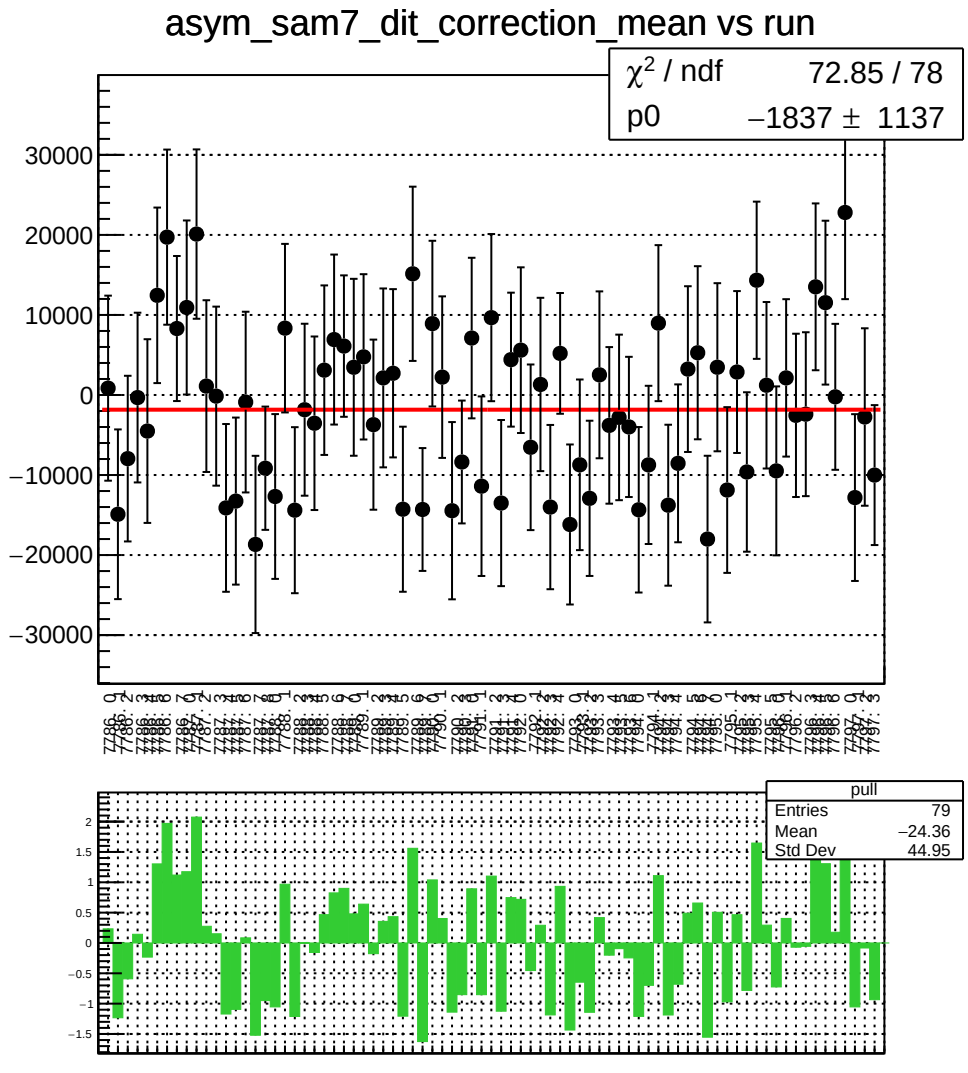

pull1D
Entries 79
Mean 0.01006
Std Dev 0.9635

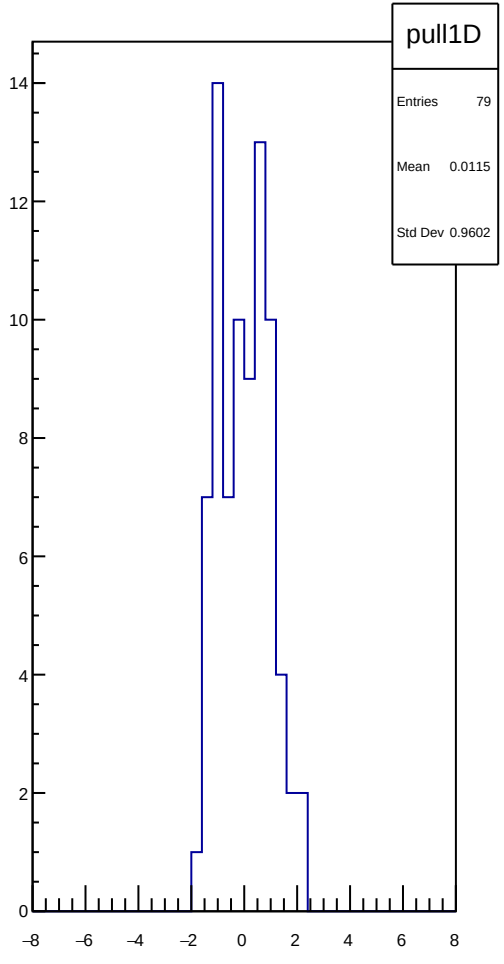

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 2753 / 78
p0 989.9 ± 0.8
1100
1050
1000
950
900

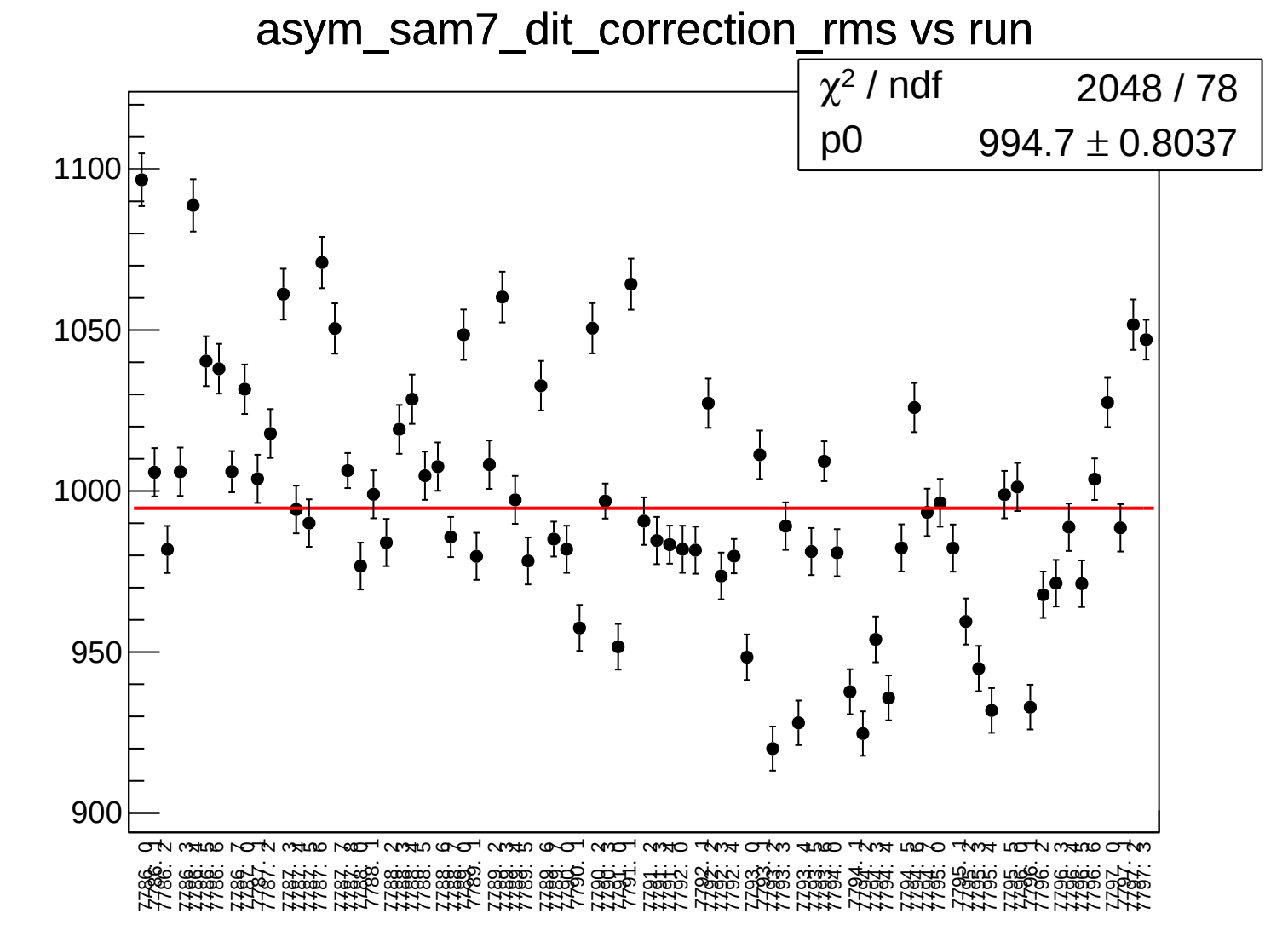

dit_asym_sam7_mean vs run
χ^2 / ndf 52.32 / 78
p0 126 ± 104.7
3000
2000
1000
0
−1000
−2000
pull
Entries 79
Mean 1042
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

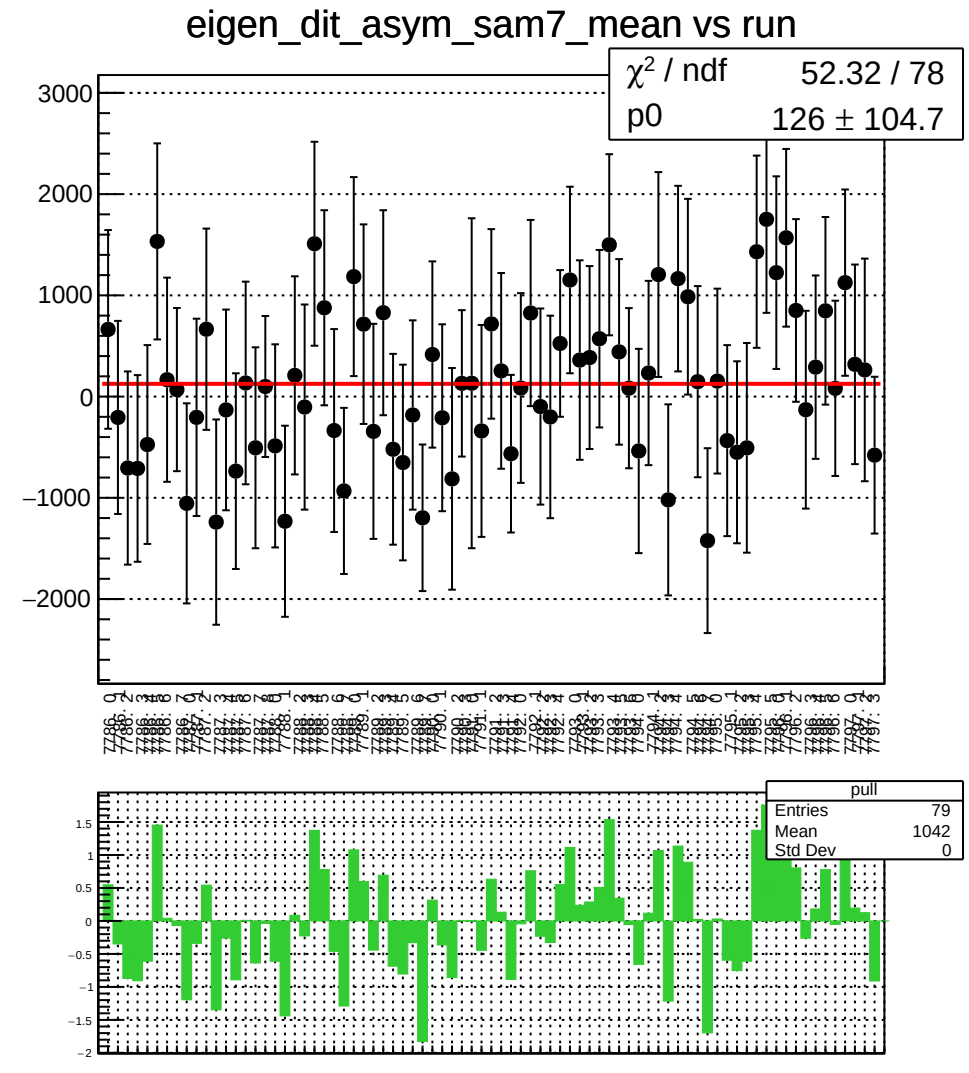

pull1D
Entries 79
Mean 0.00513
Std Dev 0.8138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

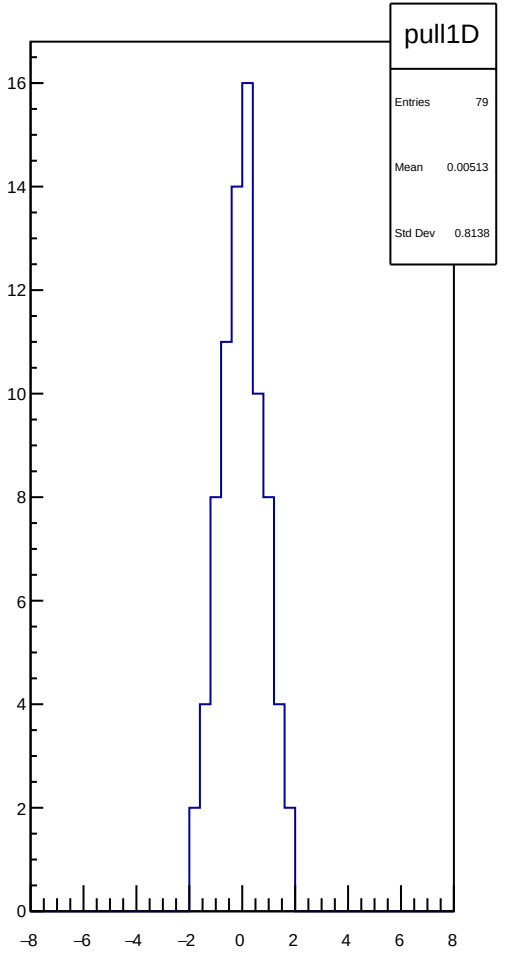

dit_asym_sam7_rms vs run
χ^2 / ndf 5925 / 78
p0 91.54 ± 0.07406
160
150
140
130
120
110
100
90
80

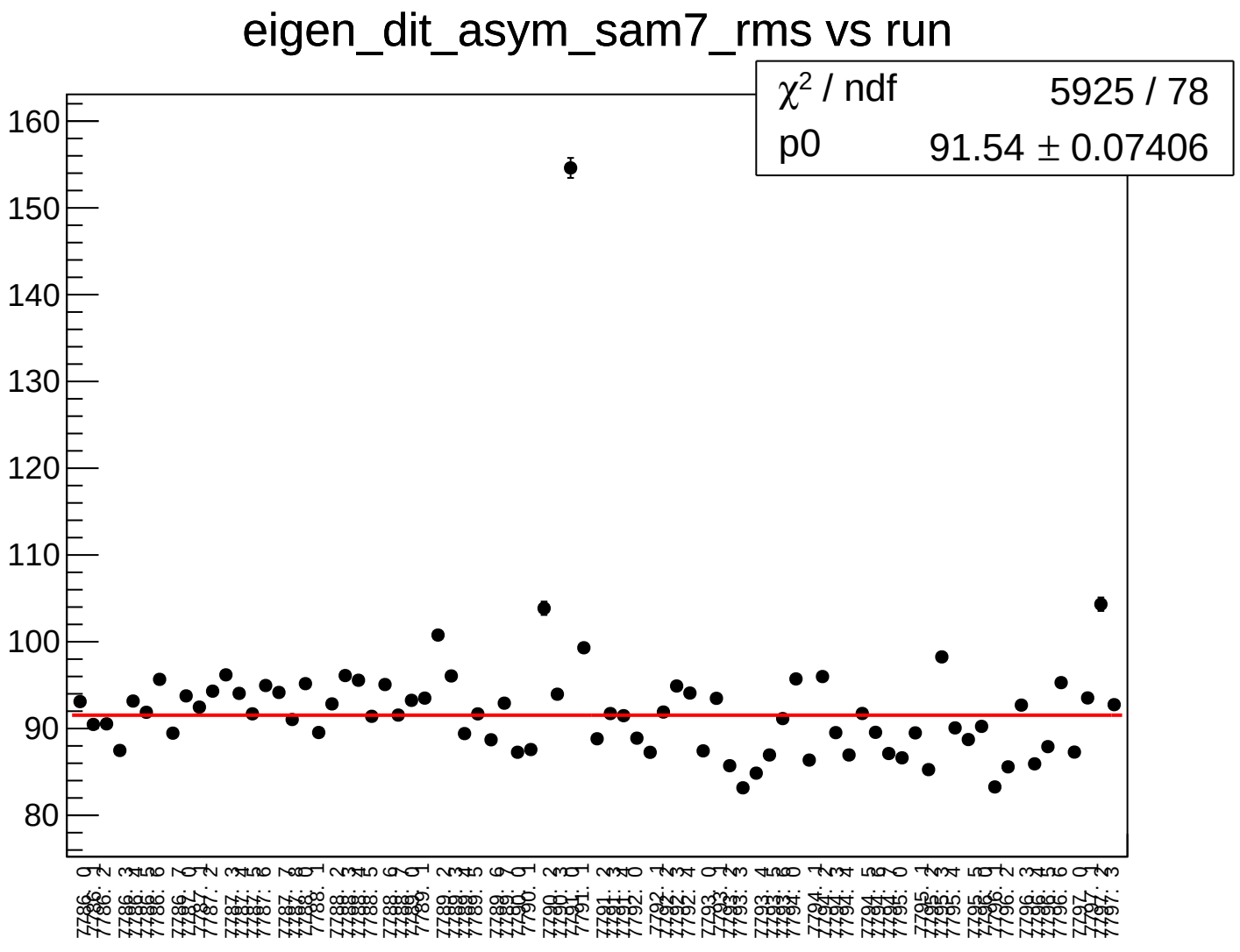

asym_sam7_dit_correction_mean vs run
χ² / ndf 72.85 / 78
p0 −1837 ± 1137
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −24.36
Std Dev 44.95
2
1.5
1
0.5
0
−0.5
−1
−1.5

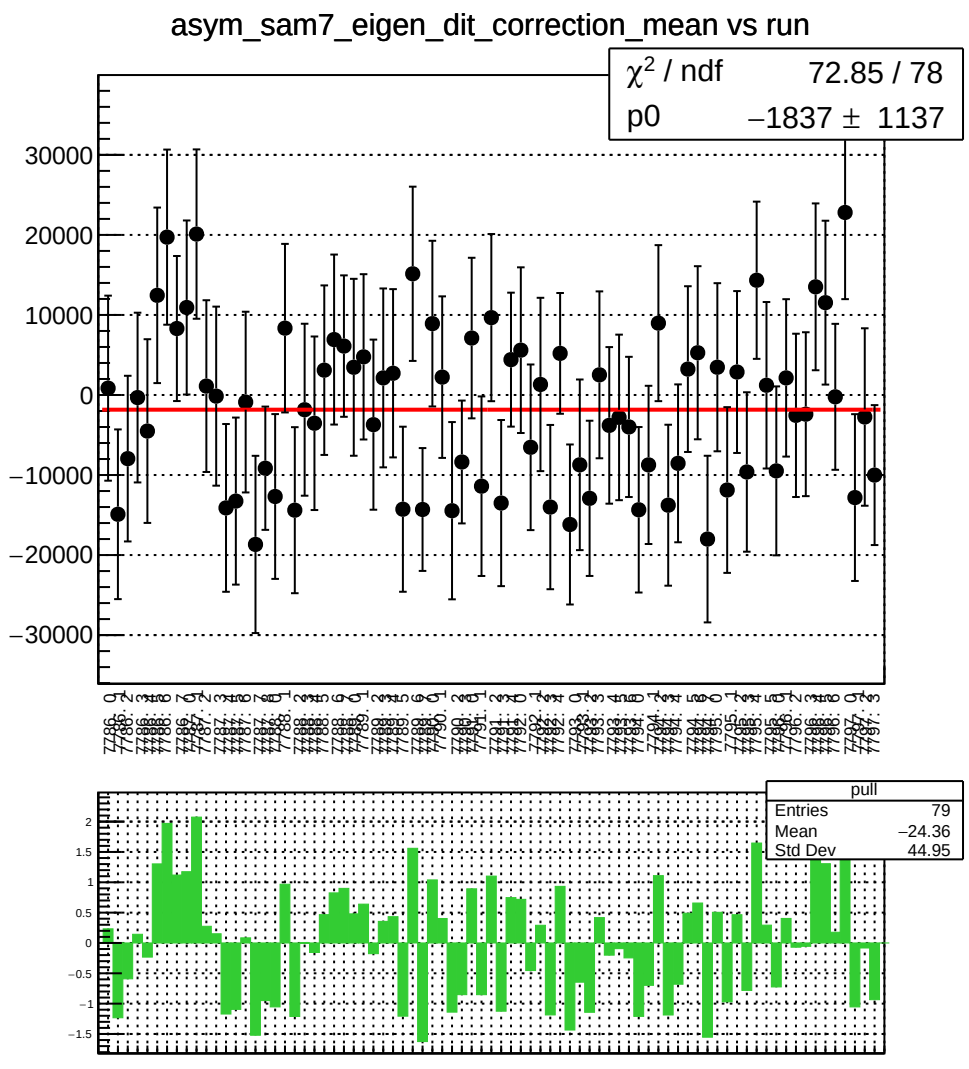

pull1D
Entries 79
Mean 0.0115
Std Dev 0.9602
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

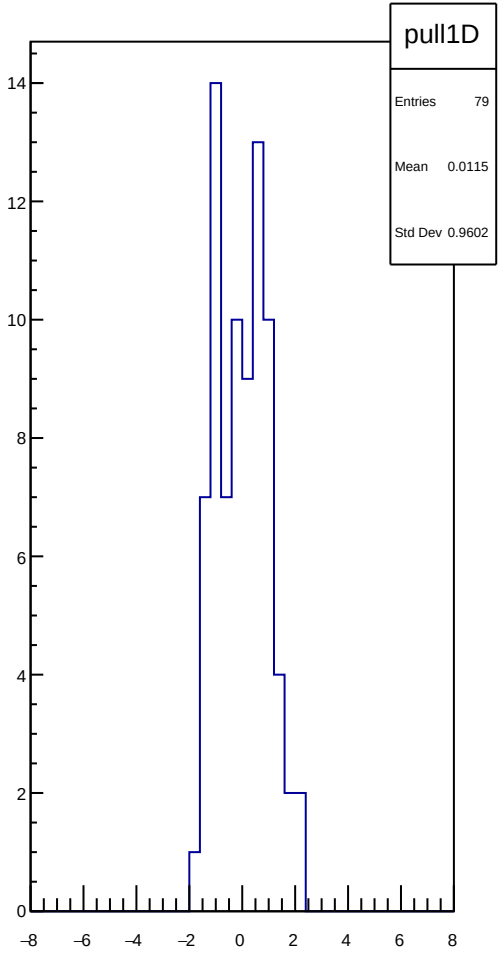

asym_sam7_dit_correction_rms vs run
χ² / ndf 2048 / 78
p0 994.7 ± 0.8037
1100
1050
1000
950
900

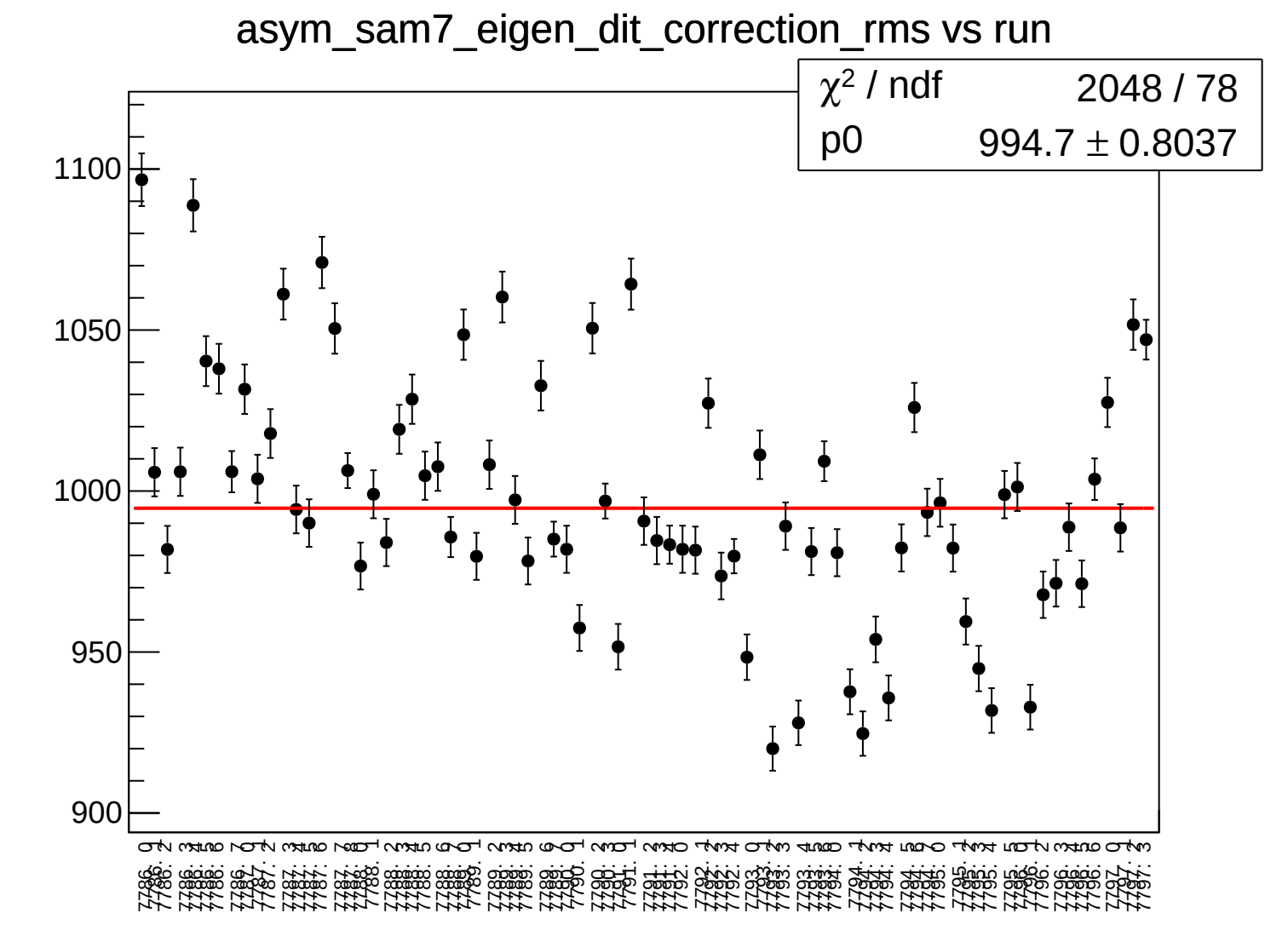

eigen_dit_asym_sam7_mean vs run
χ² / ndf 52.32 / 78
p0 126 ± 104.7
pull
Entries 79
Mean 1042
Std Dev 0

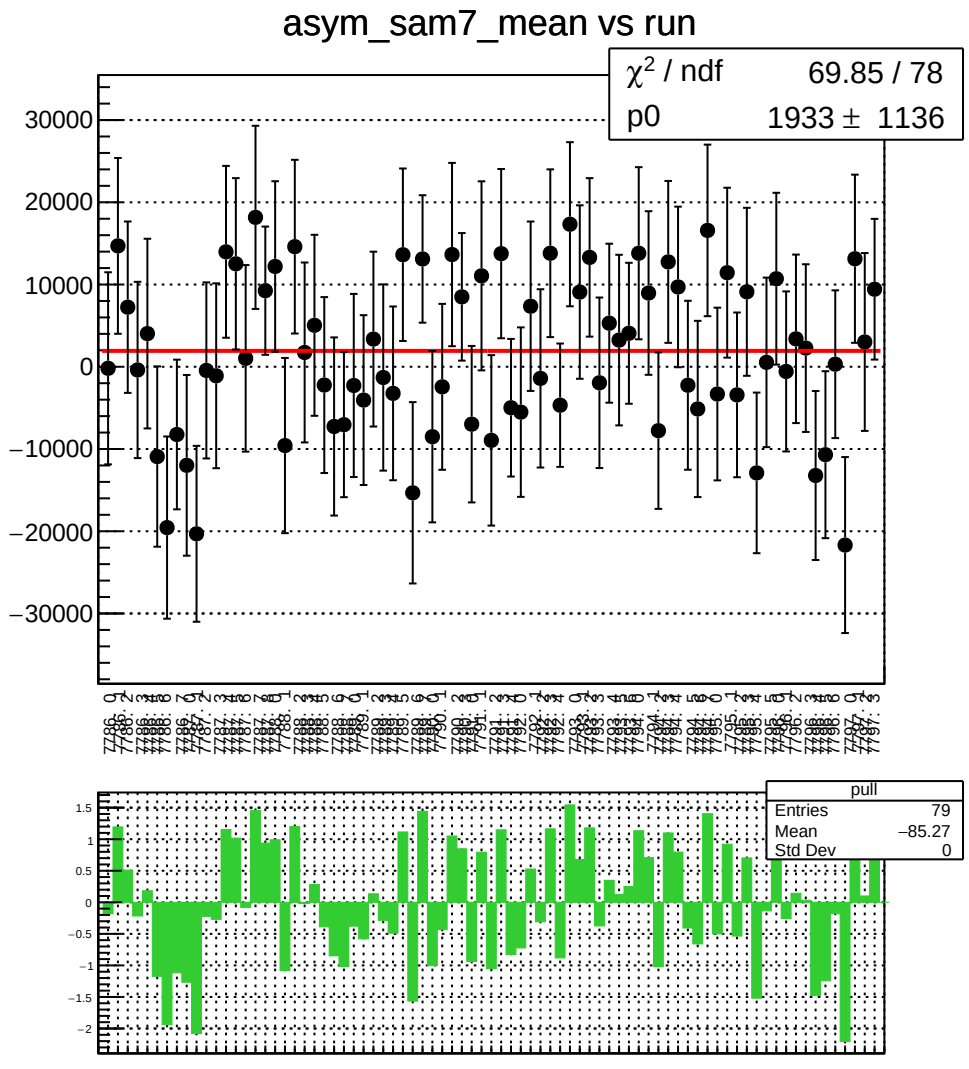

pull1D
Entries 79
Mean 0.00513
Std Dev 0.8138

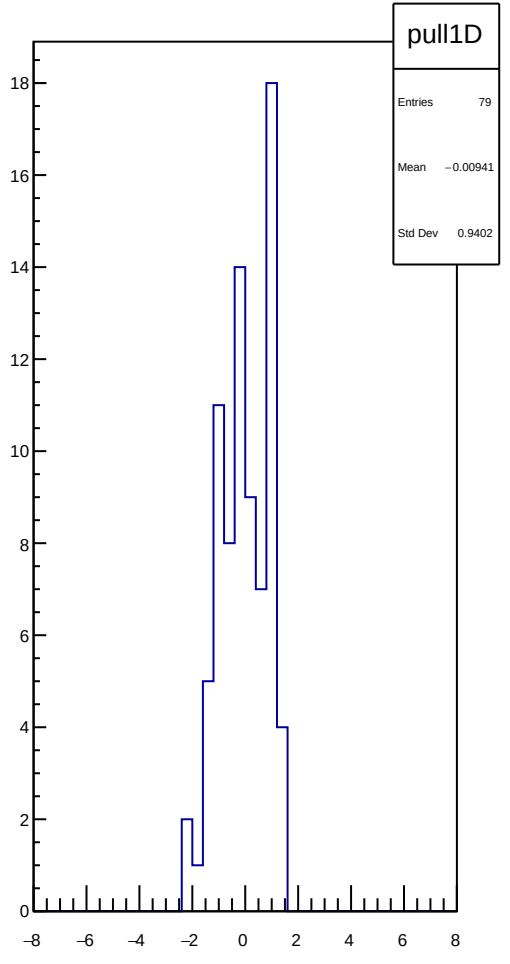

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 5925 / 78
p0 91.54 ± 0.07406
160
150
140
130
120
110
100
90
80

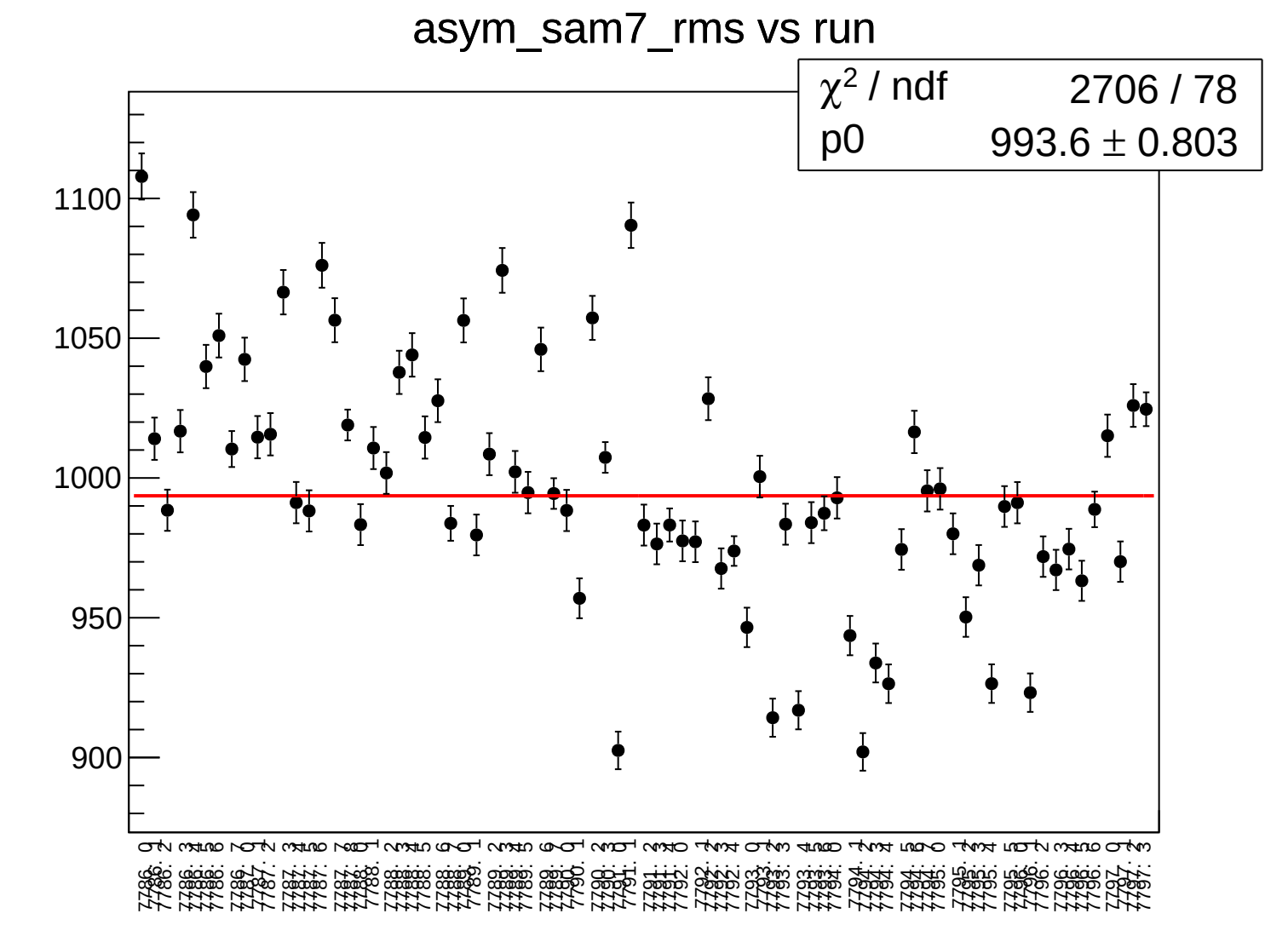

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 72.85 / 78
p0 −1837 ± 1137
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −24.36
Std Dev 44.95
2
1.5
1
0.5
0
−0.5
−1
−1.5

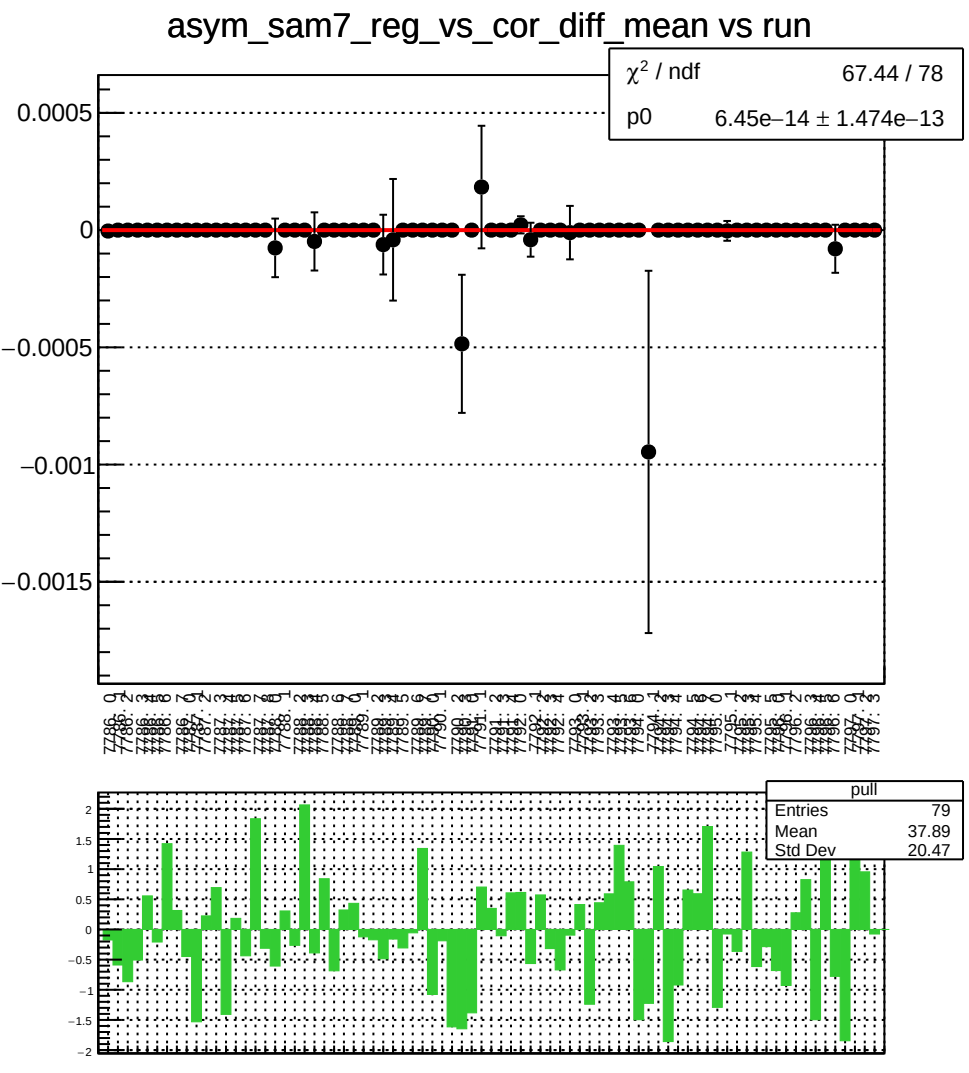

pull1D
Entries 79
Mean 0.0115
Std Dev 0.9602
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

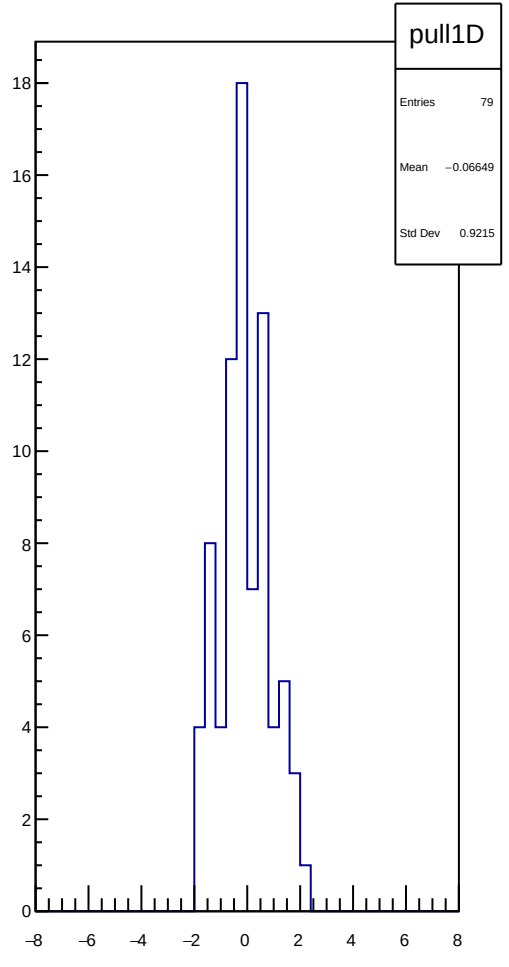

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 2048 / 78
p0 994.7 ± 0.8037
1100
1050
1000
950
900

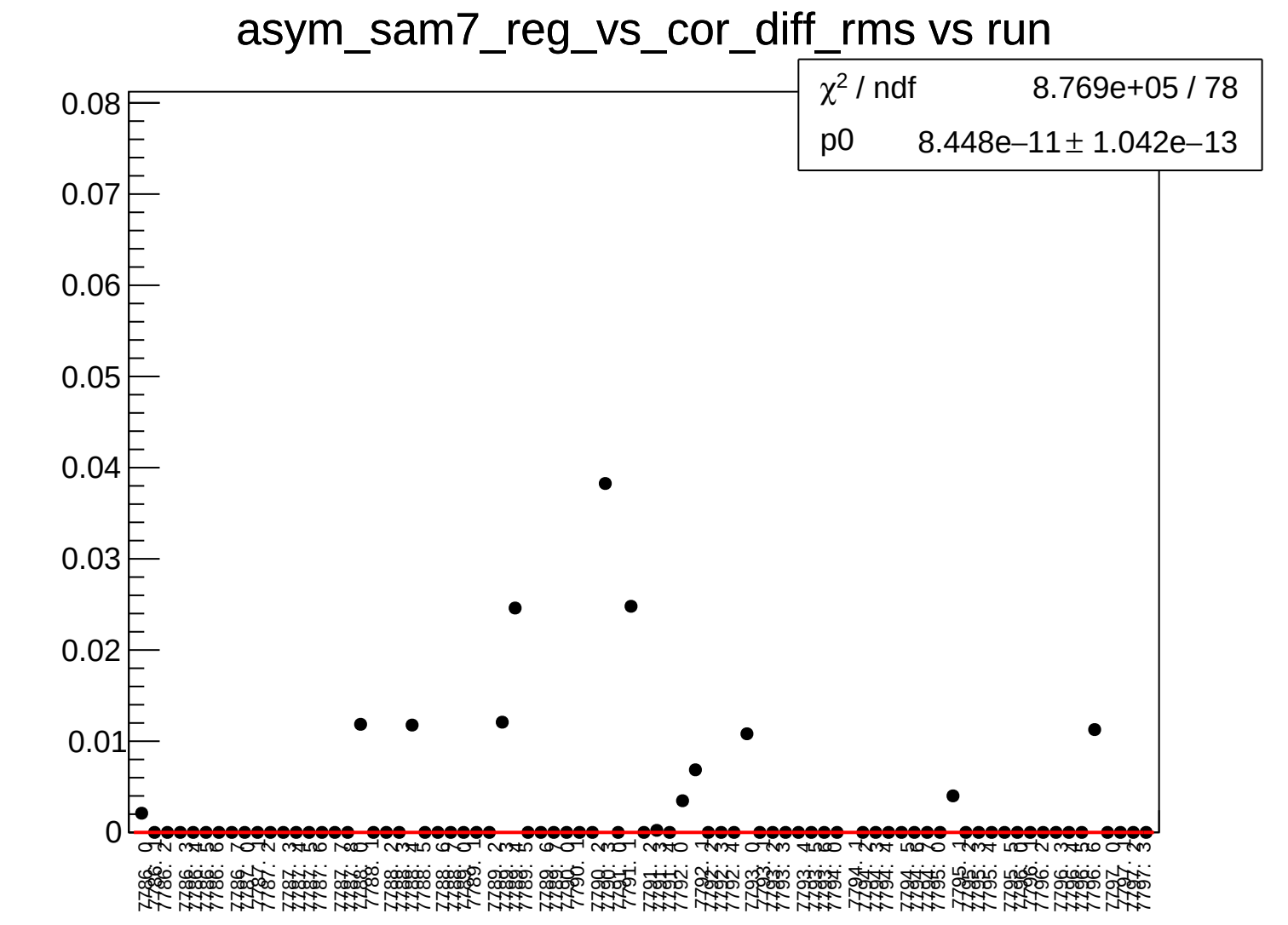

asym_sam7_mean vs run
χ^2 / ndf 69.85 / 78
p0 1933 ± 1136
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −85.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

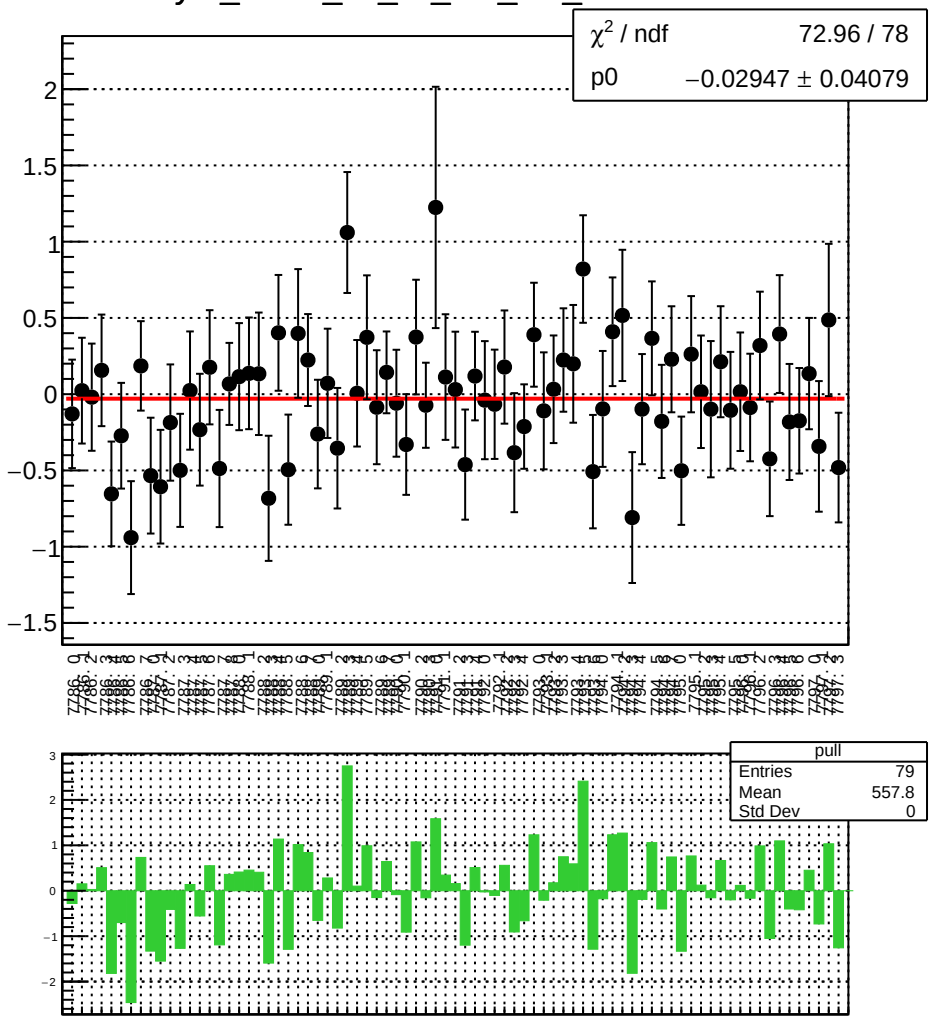

pull1D
Entries 79
Mean −0.00941
Std Dev 0.9402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

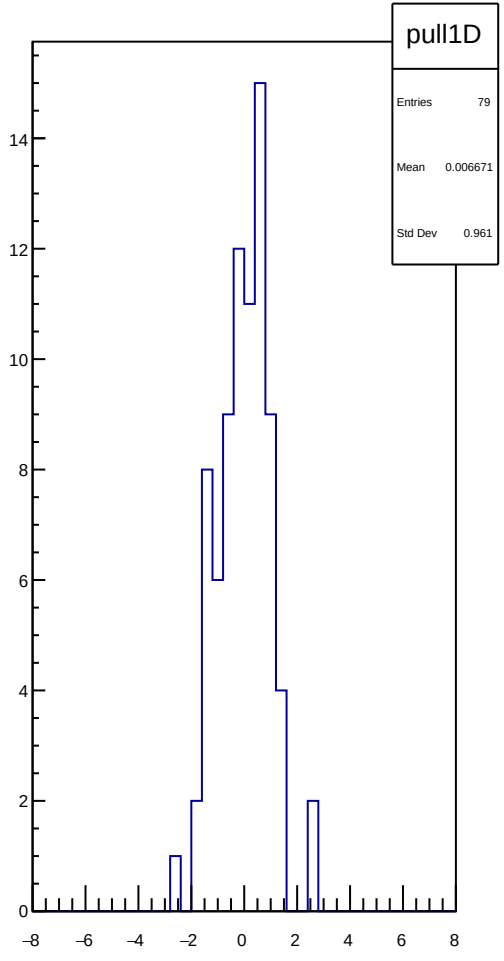

asym_sam7_rms vs run
χ² / ndf 2706 / 78
p0 993.6 ± 0.803
1100
1050
1000
950
900

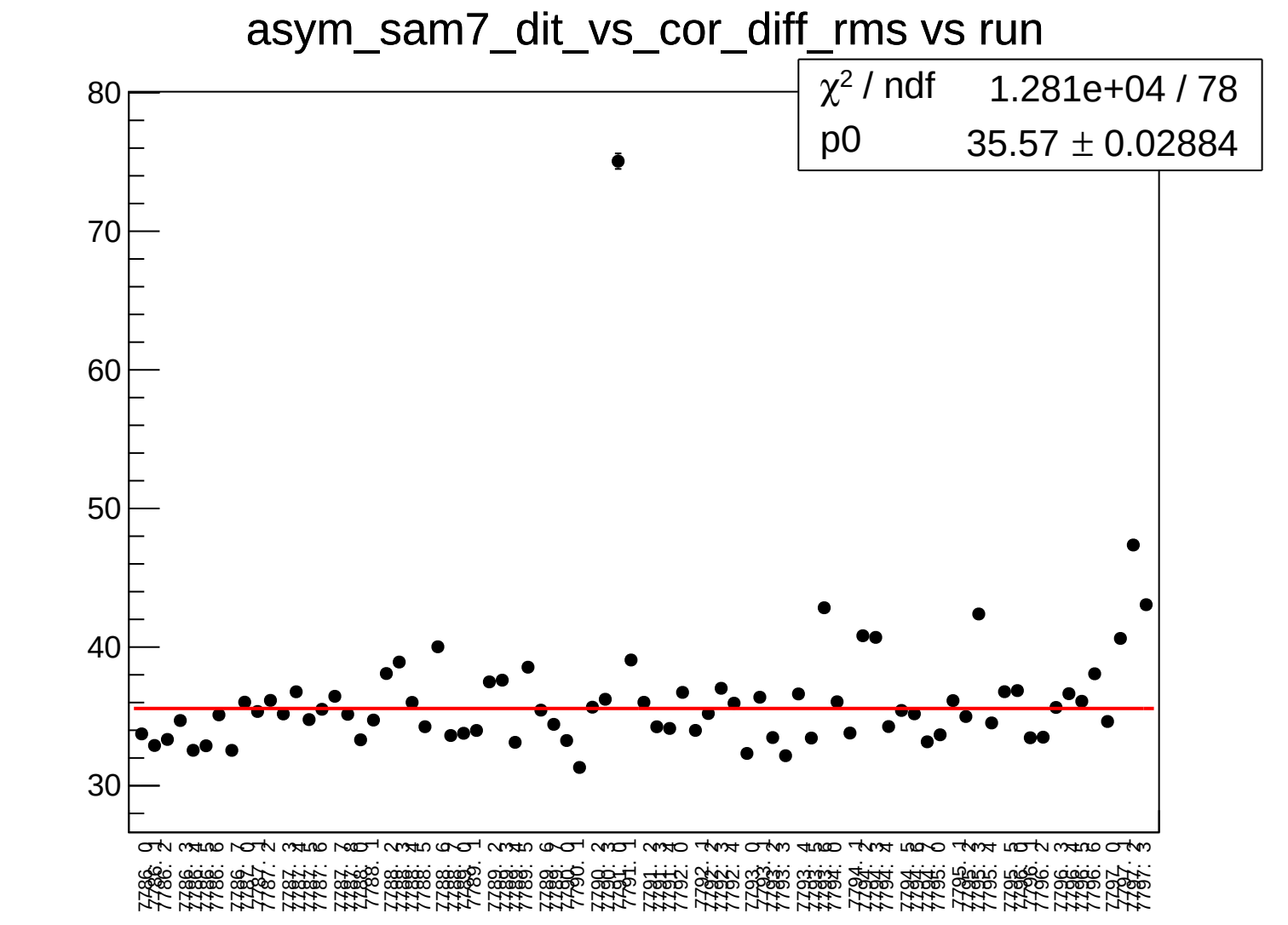

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 67.44 / 78
p0 6.45e−14 ± 1.474e−13
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 79
Mean 37.89
Std Dev 20.47
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

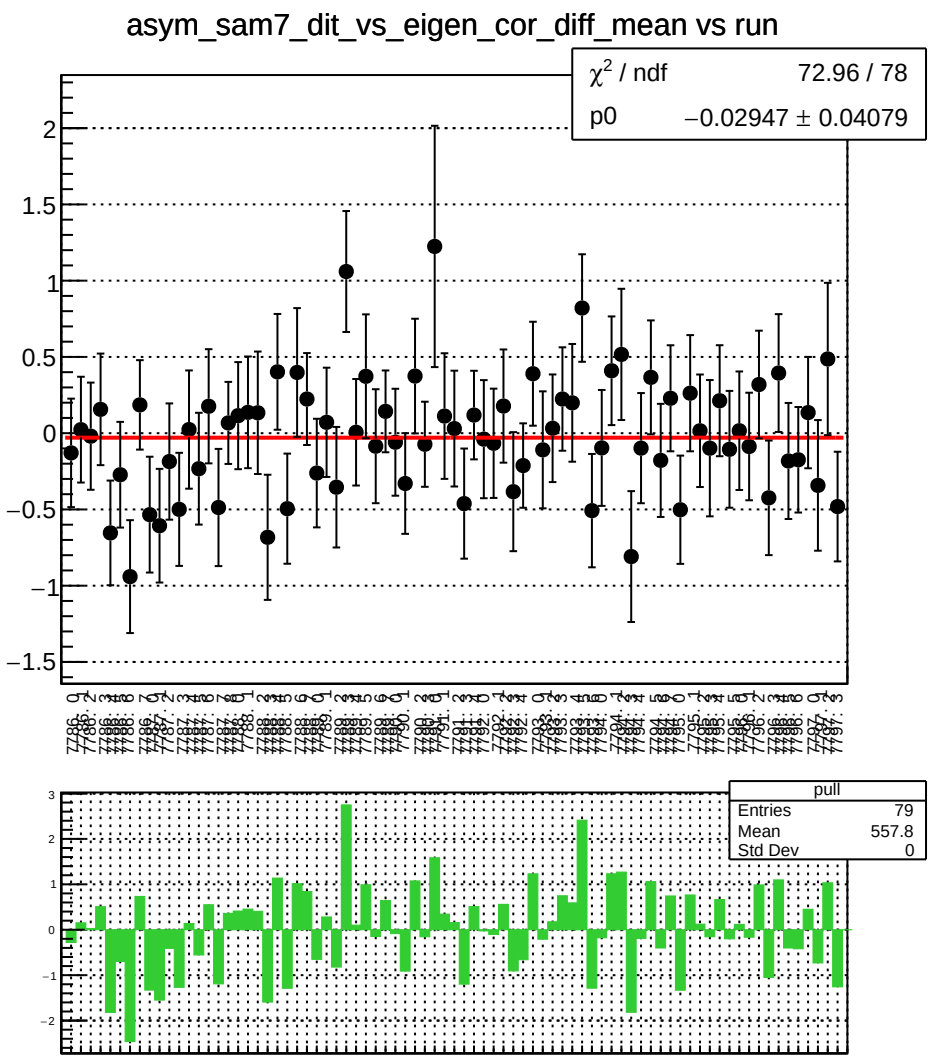

pull1D
Entries 79
Mean −0.06649
Std Dev 0.9215
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

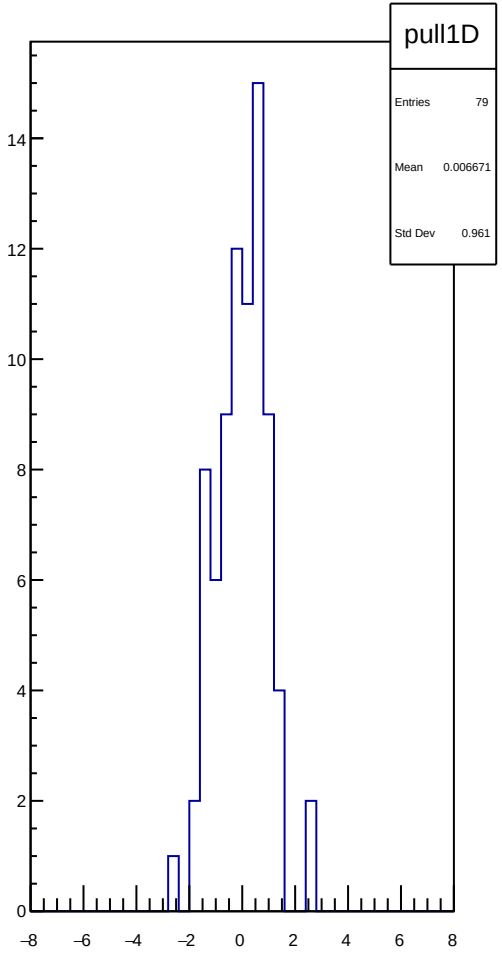

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 8.769e+05 / 78
p0 8.448e−11 ± 1.042e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

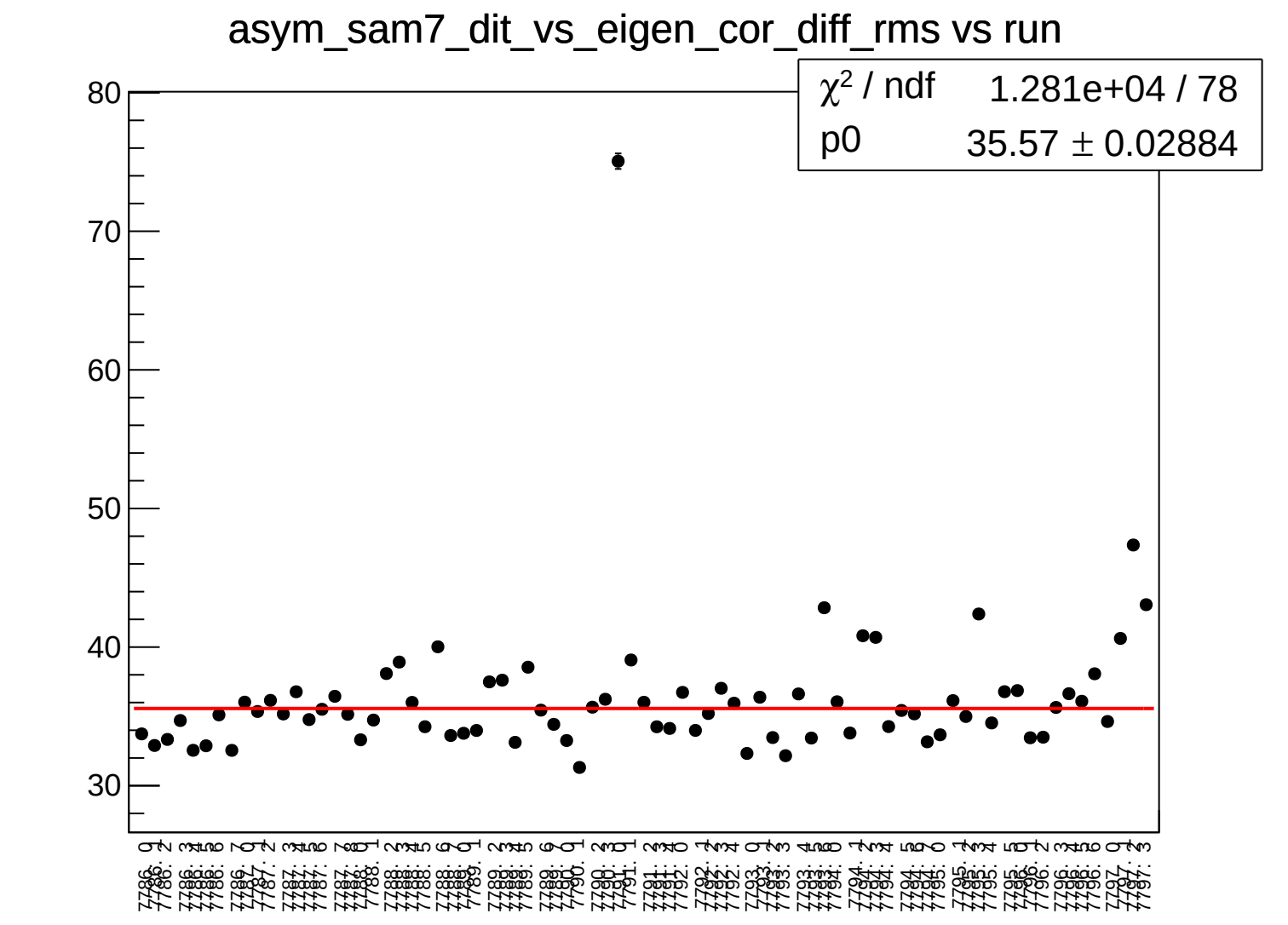

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 72.96 / 78
p0 −0.02947 ± 0.04079
pull
Entries 79
Mean 557.8
Std Dev 0

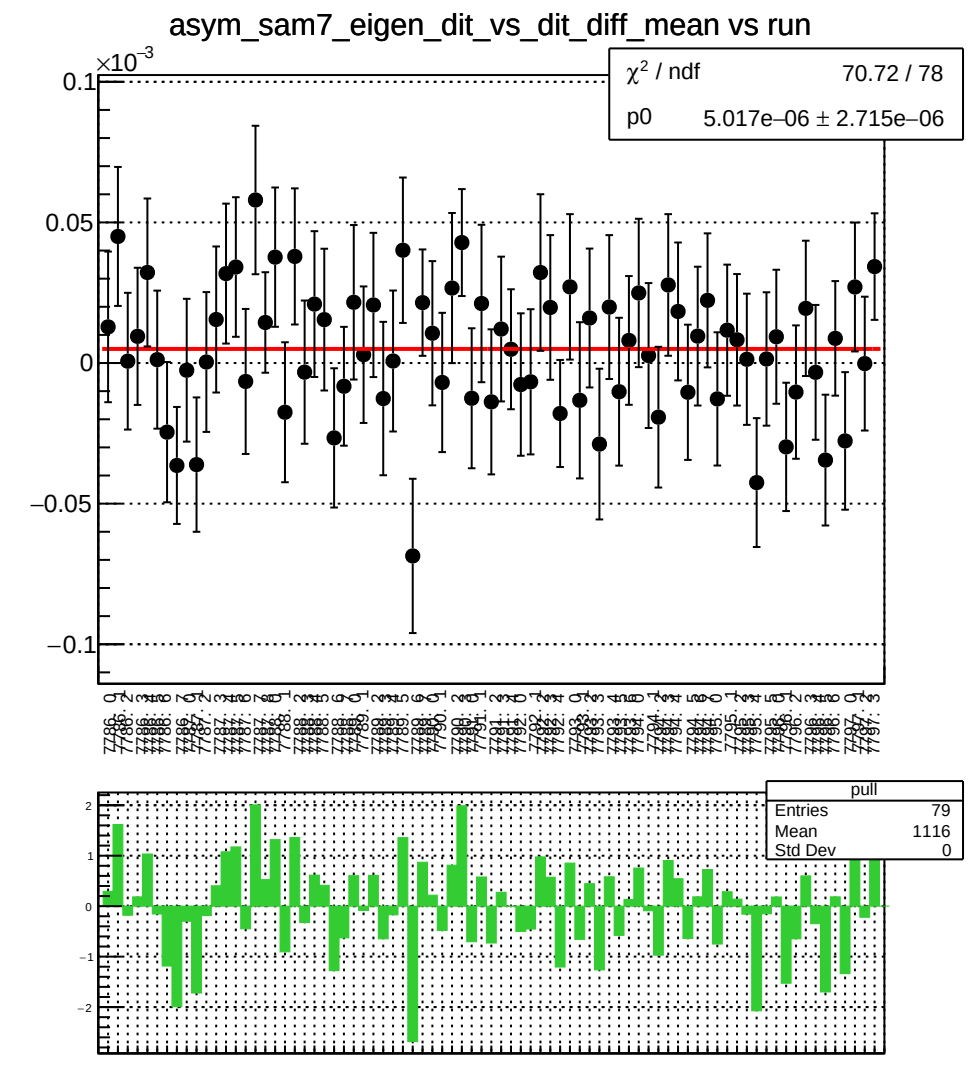

pull1D
Entries 79
Mean 0.006671
Std Dev 0.961

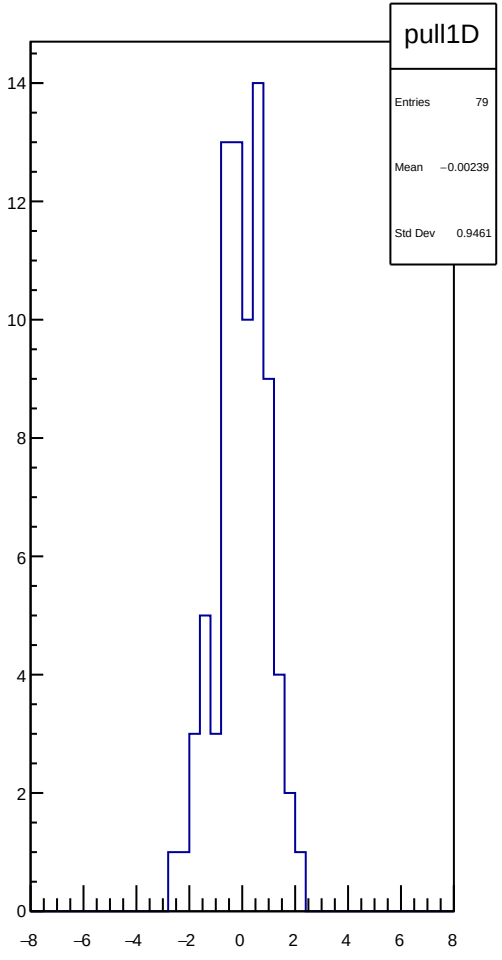

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.281e+04 / 78
p0 35.57 ± 0.02884
80
70
60
50
40
30

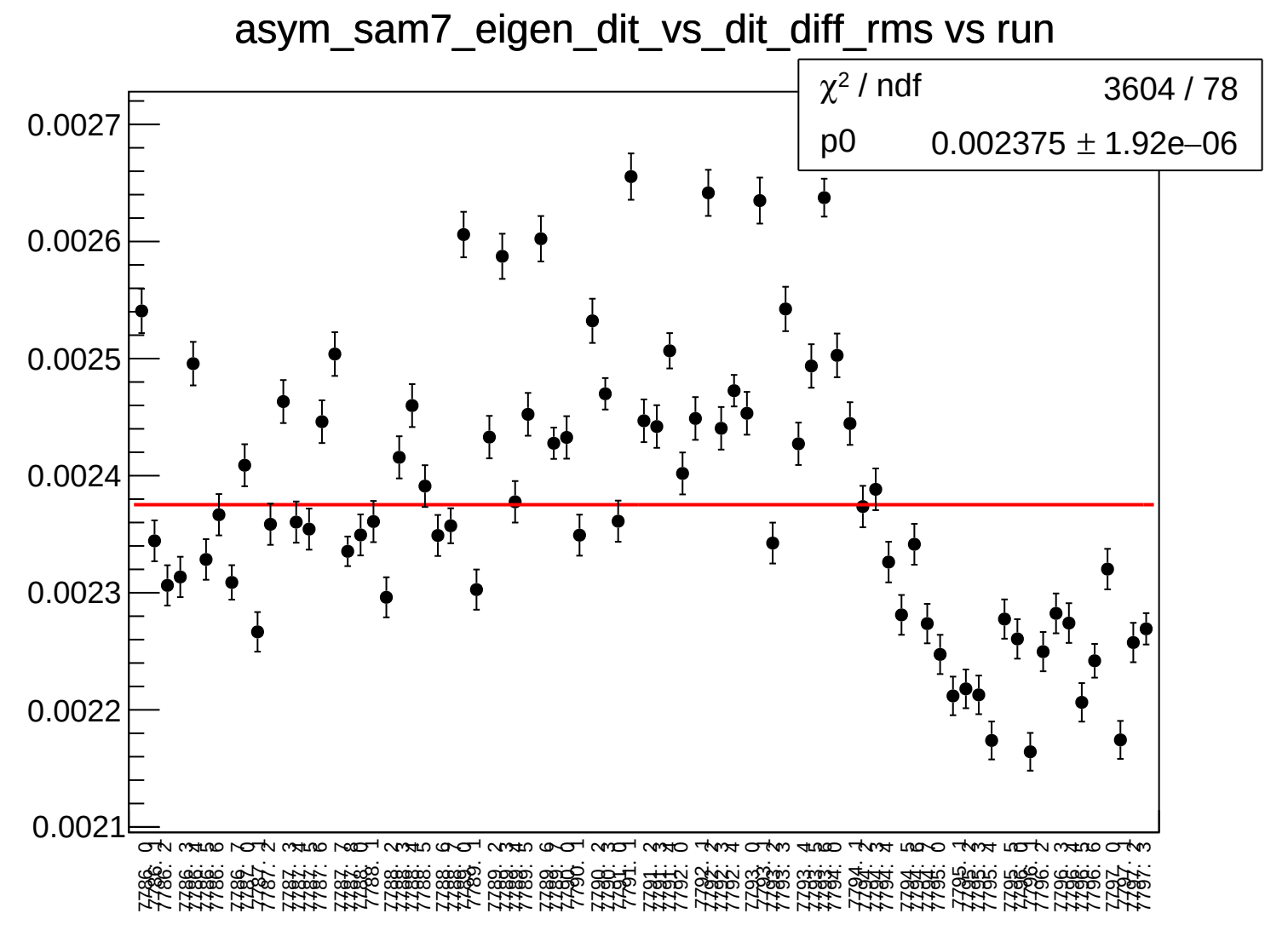

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.96 / 78
p0 −0.02947 ± 0.04079
pull
Entries 79
Mean 557.8
Std Dev 0

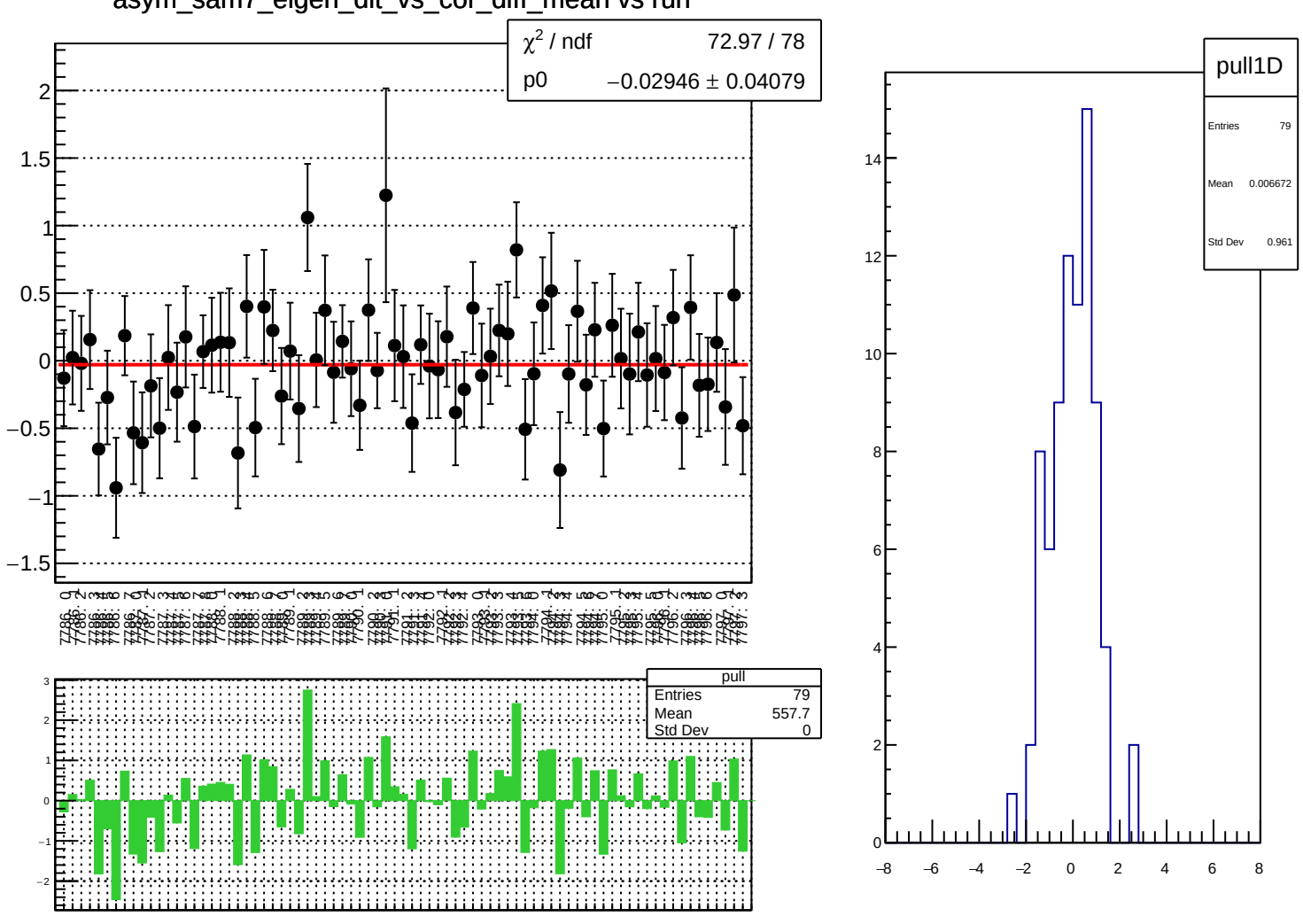

pull1D
Entries 79
Mean 0.006671
Std Dev 0.961

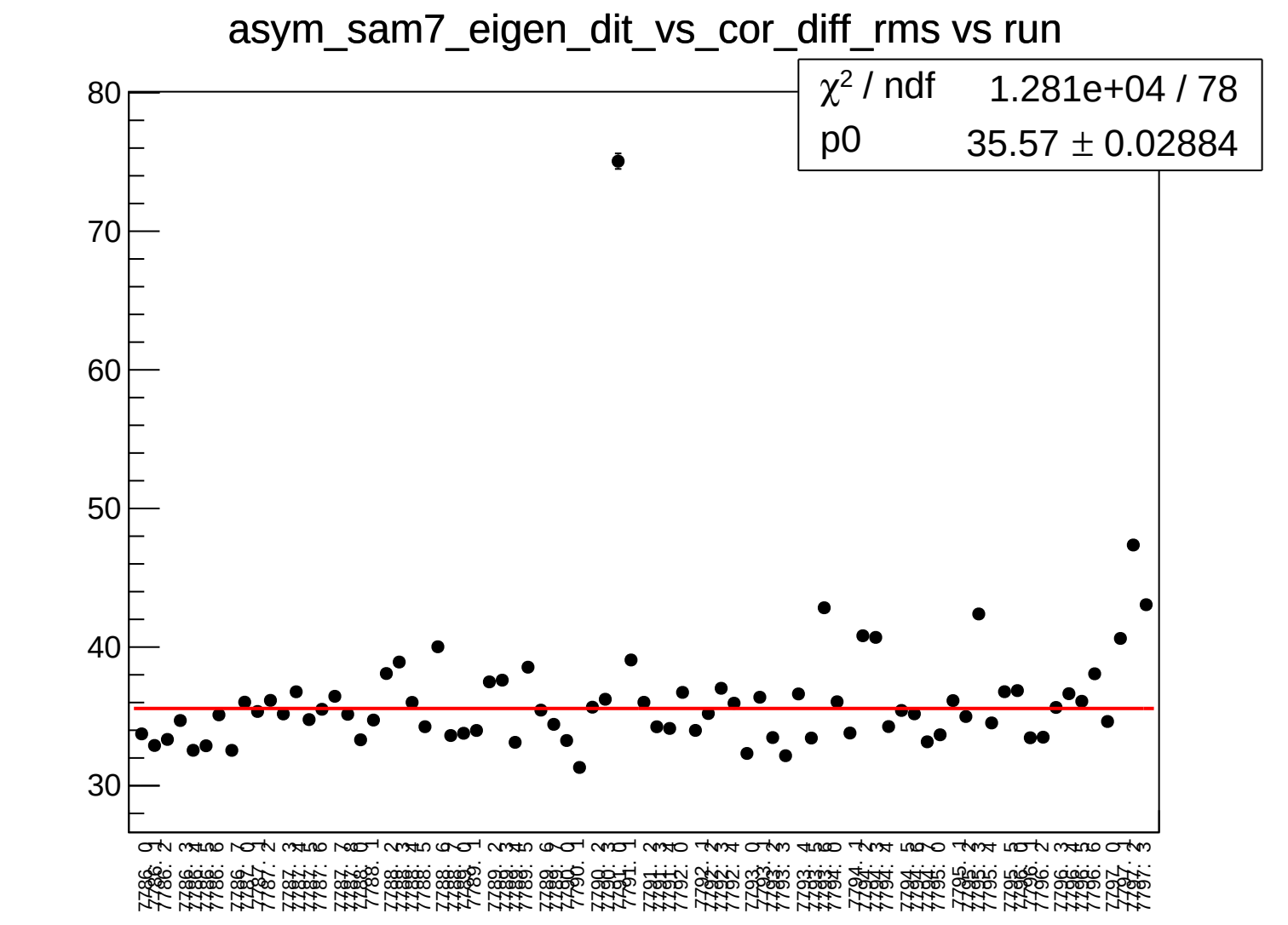

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.281e+04 / 78
p0 35.57 ± 0.02884
80
70
60
50
40
30

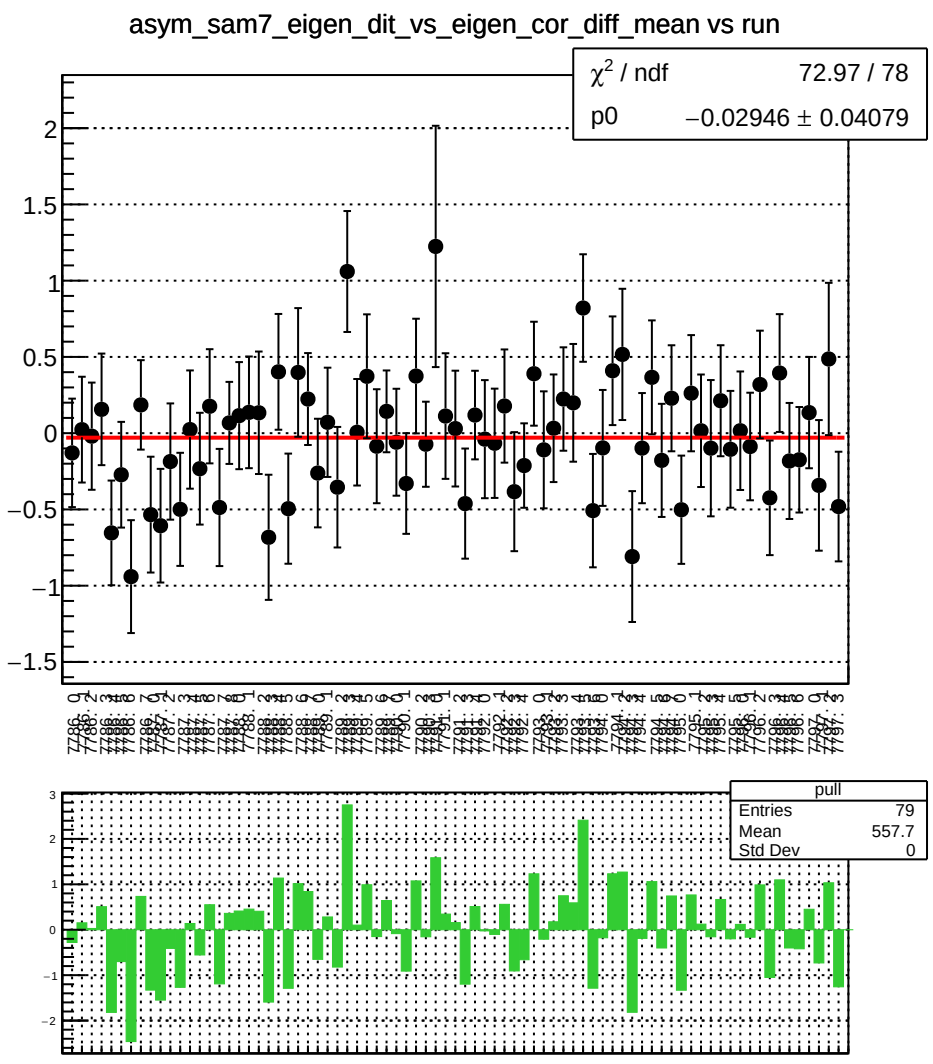

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.72 / 78
p0 5.017e−06 ± 2.715e−06
pull
Entries 79
Mean 1116
Std Dev 0

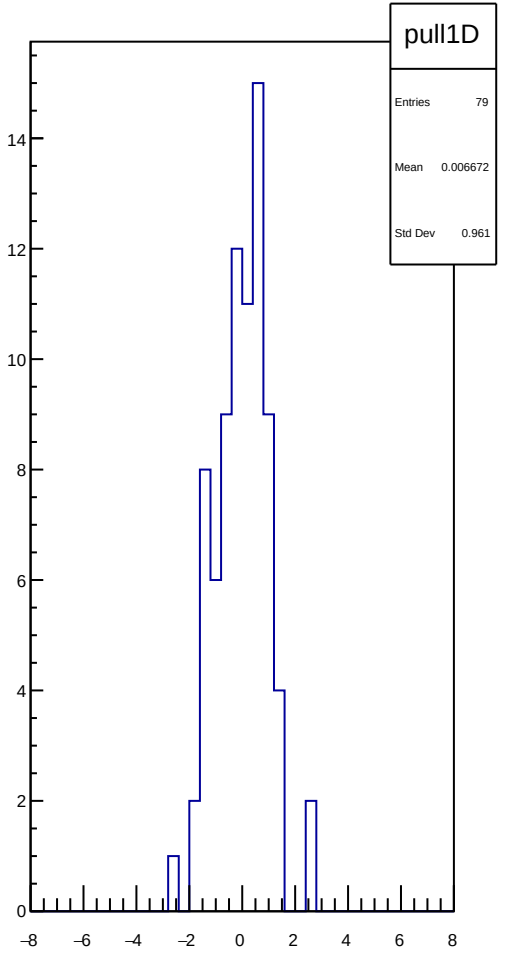

pull1D
Entries 79
Mean −0.00239
Std Dev 0.9461

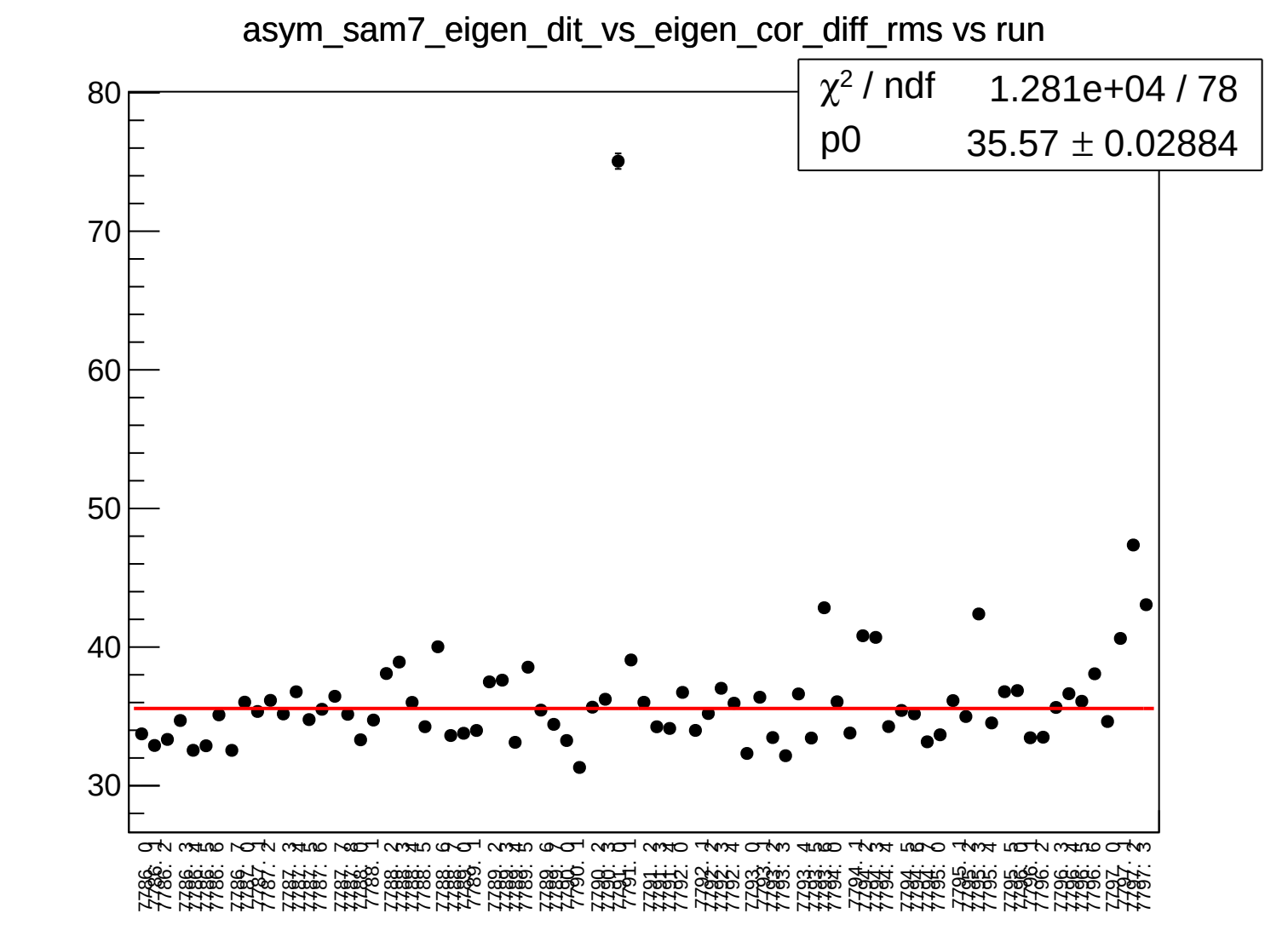

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3604 / 78
p0 0.002375 ± 1.92e–06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

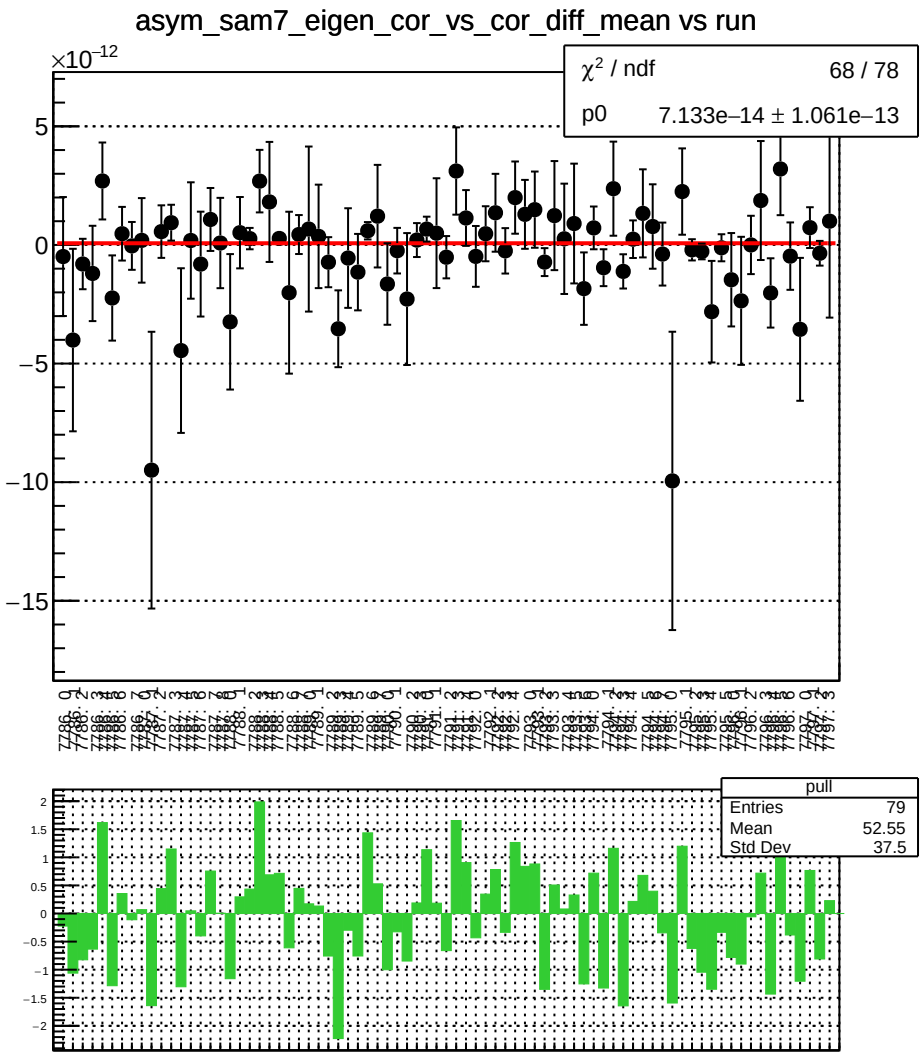

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.97 / 78
p0 −0.02946 ± 0.04079
pull
Entries 79
Mean 557.7
Std Dev 0
pull1D
Entries 79
Mean 0.006672
Std Dev 0.961

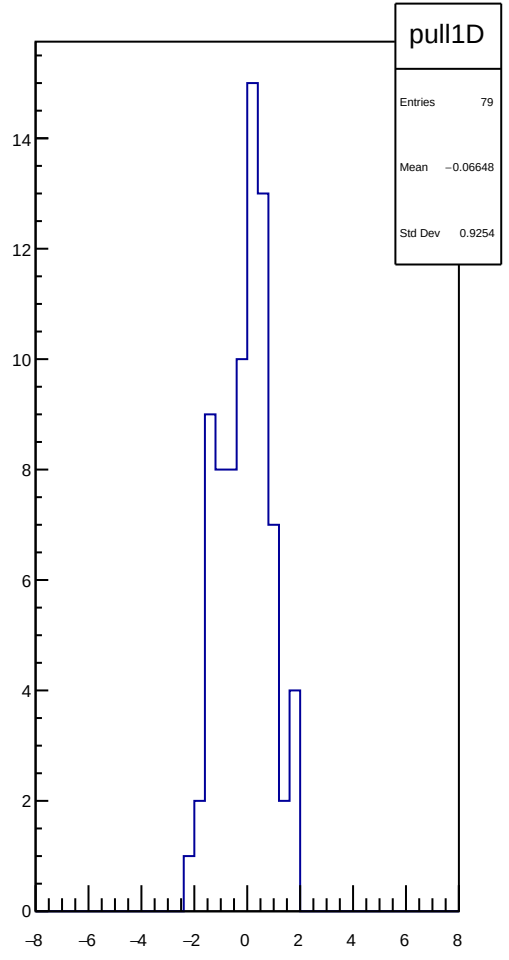

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.281e+04 / 78
p0 35.57 ± 0.02884
80
70
60
50
40
30

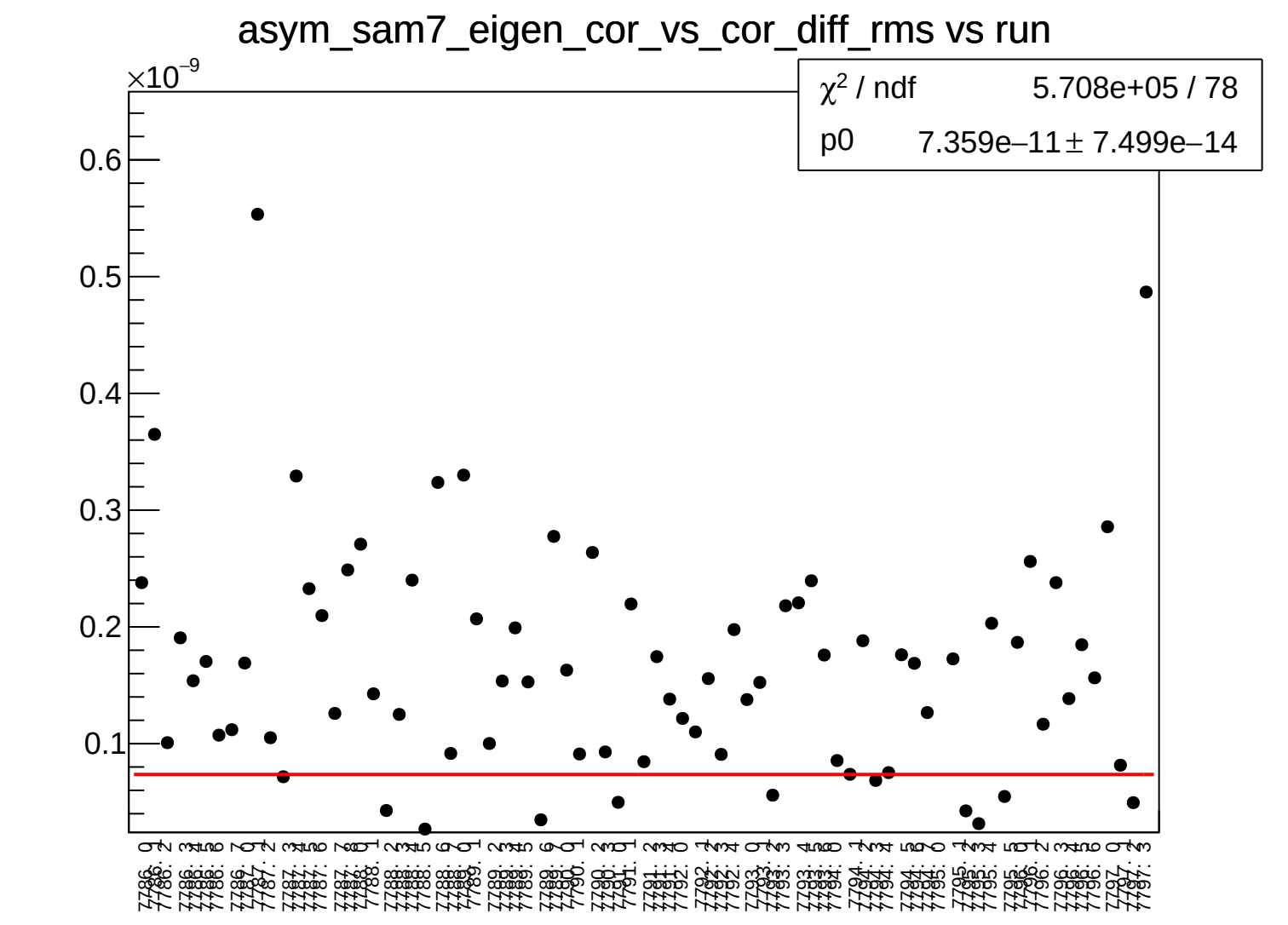

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.97 / 78
p0 −0.02946 ± 0.04079
pull
Entries 79
Mean 557.7
Std Dev 0

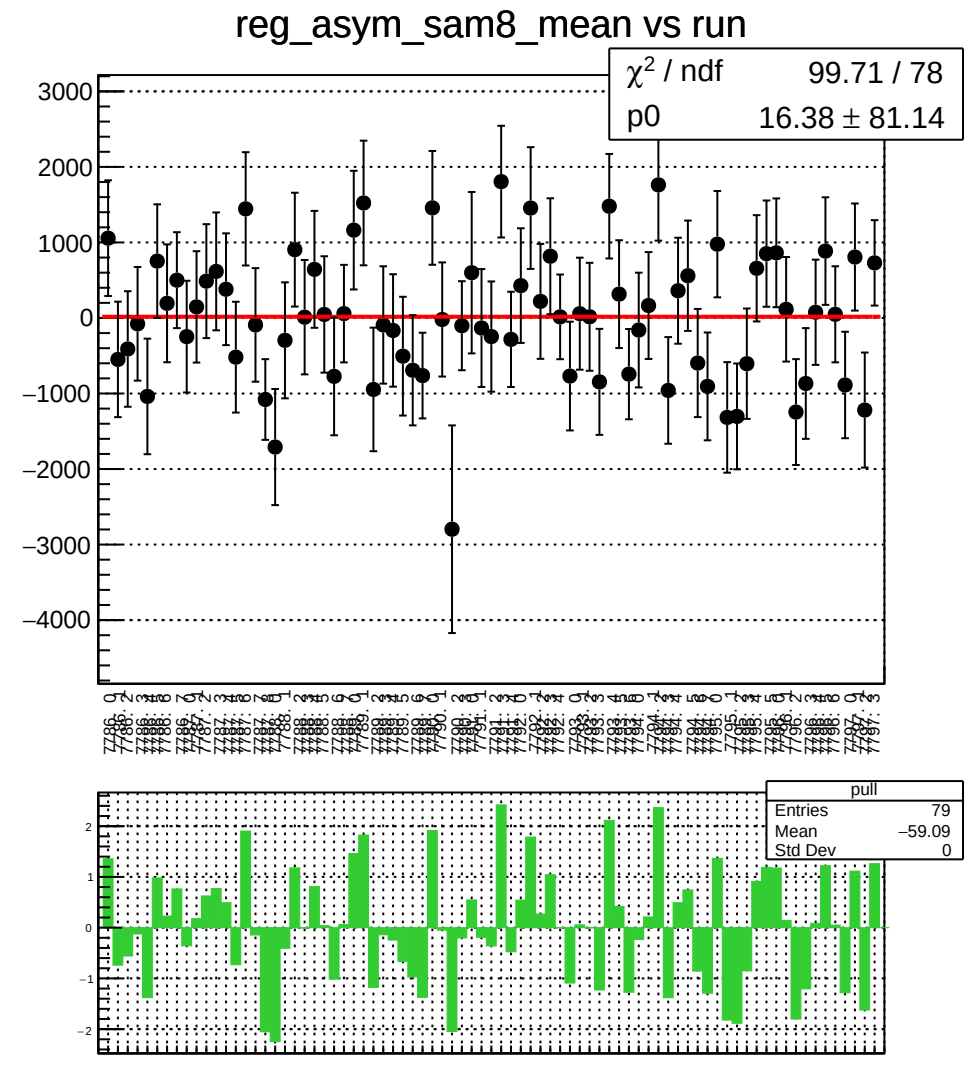

pull1D
Entries 79
Mean 0.006672
Std Dev 0.961

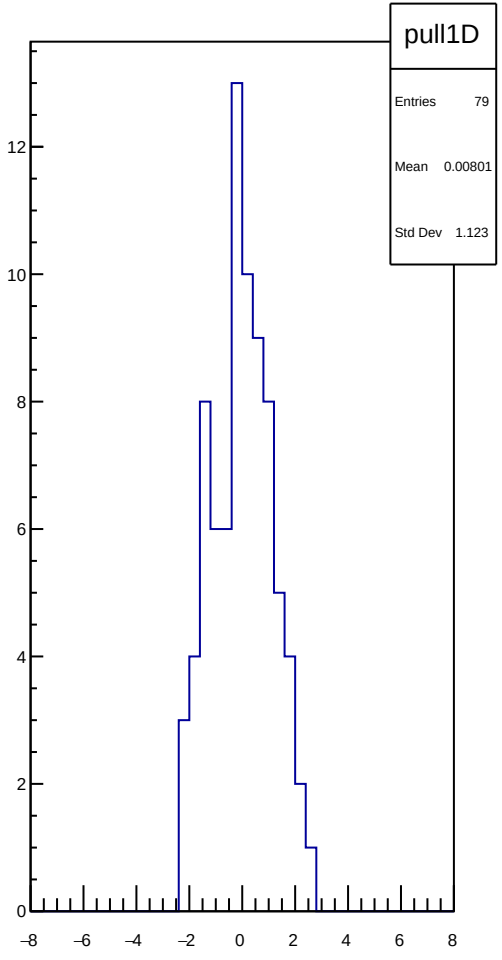

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.281e+04 / 78
p0 35.57 ± 0.02884
80
70
60
50
40
30

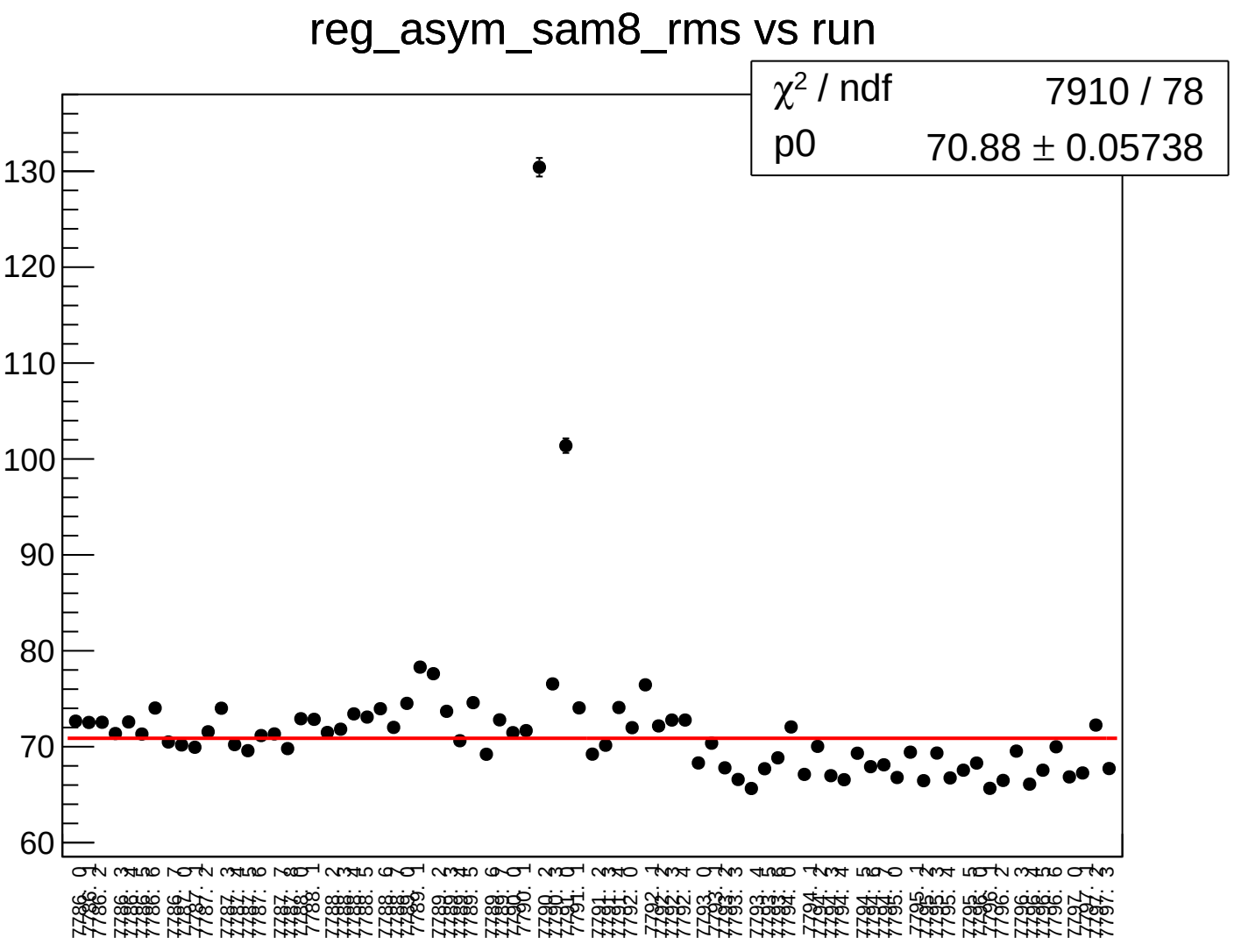

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68 / 78
p0 7.133e−14 ± 1.061e−13
pull
Entries 79
Mean 52.55
Std Dev 37.5

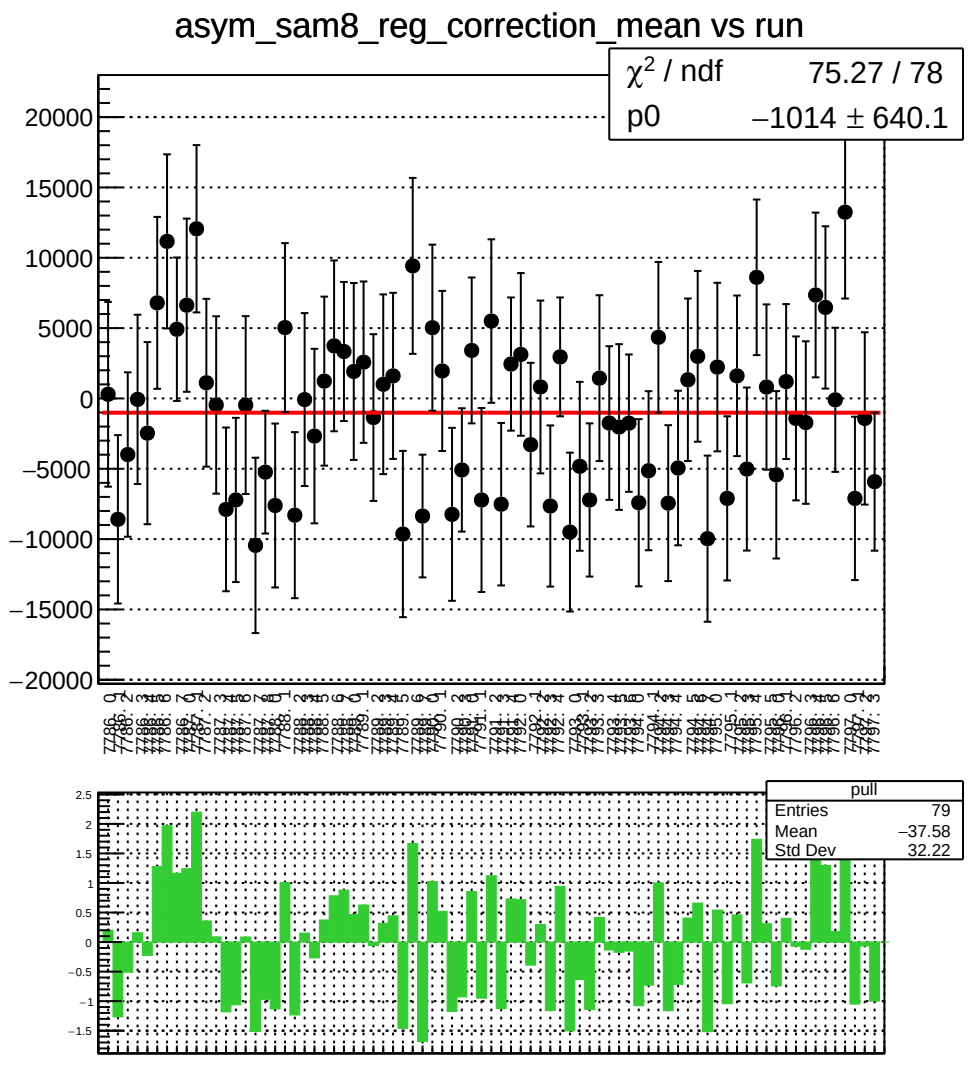

pull1D
Entries 79
Mean −0.06648
Std Dev 0.9254

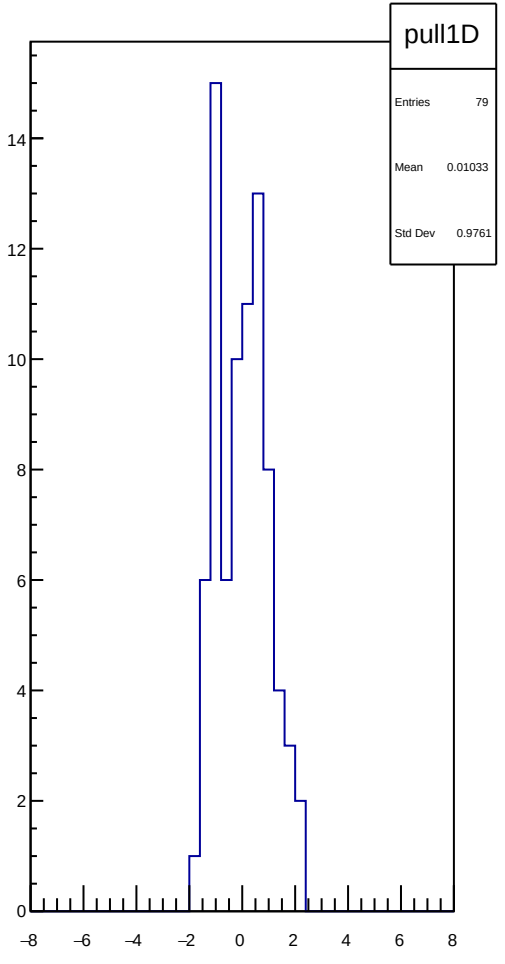

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.708e+05 / 78
p0 7.359e−11 ± 7.499e−14
0.6
0.5
0.4
0.3
0.2
0.1

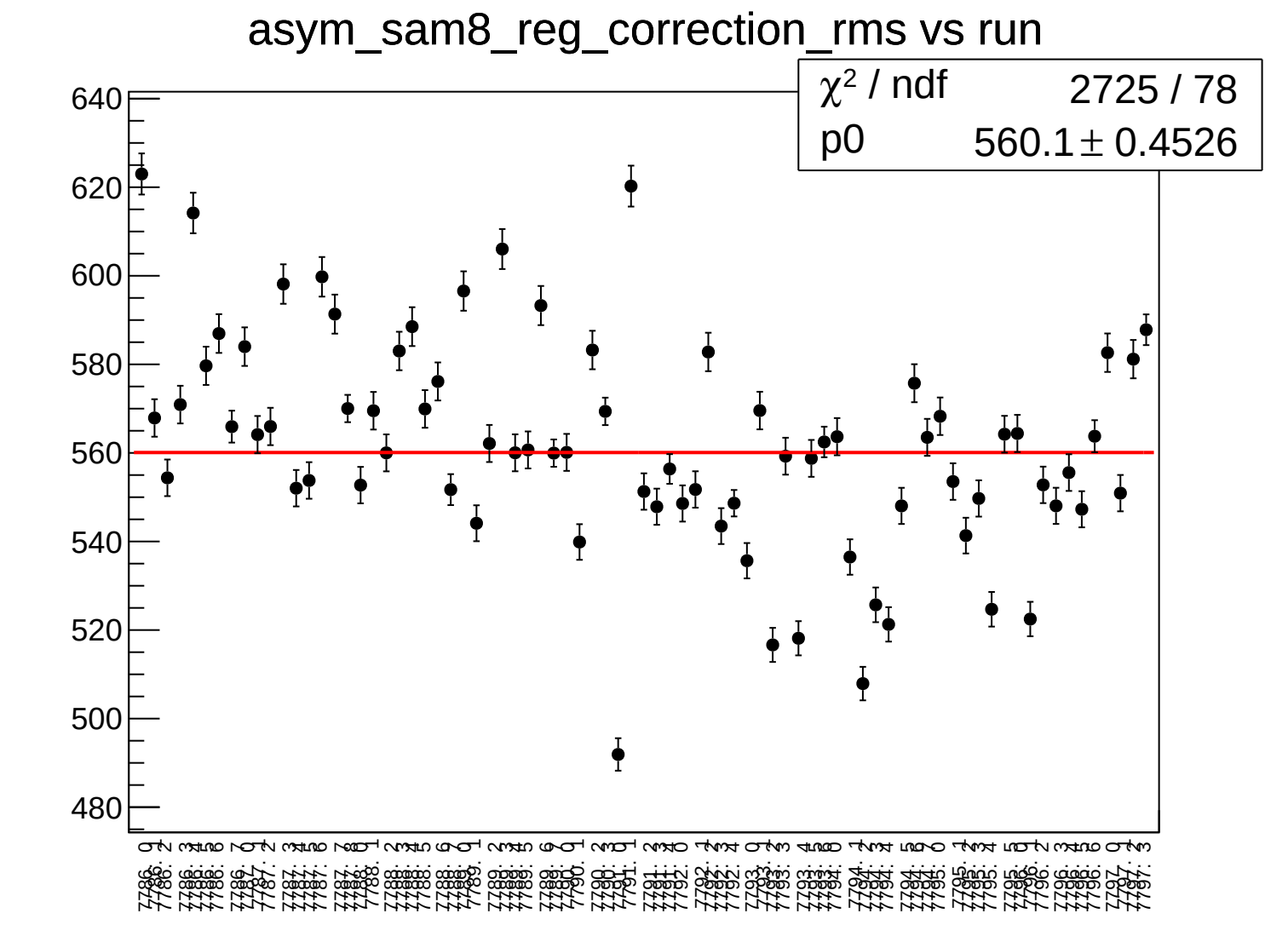

reg_asym_sam8_mean vs run
χ² / ndf 99.71 / 78
p0 16.38 ± 81.14
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 79
Mean −59.09
Std Dev 0
2
1
0
−1
−2

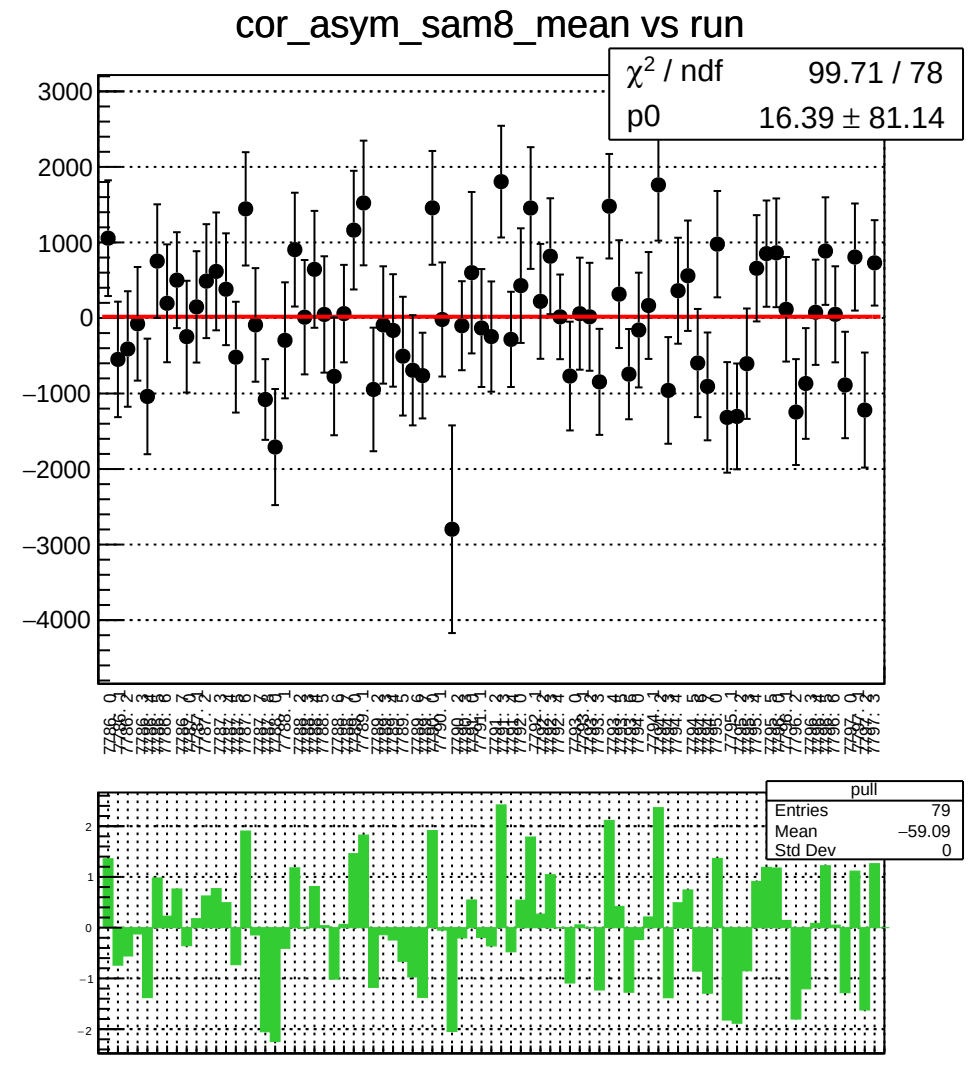

pull1D
Entries 79
Mean 0.00801
Std Dev 1.123
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

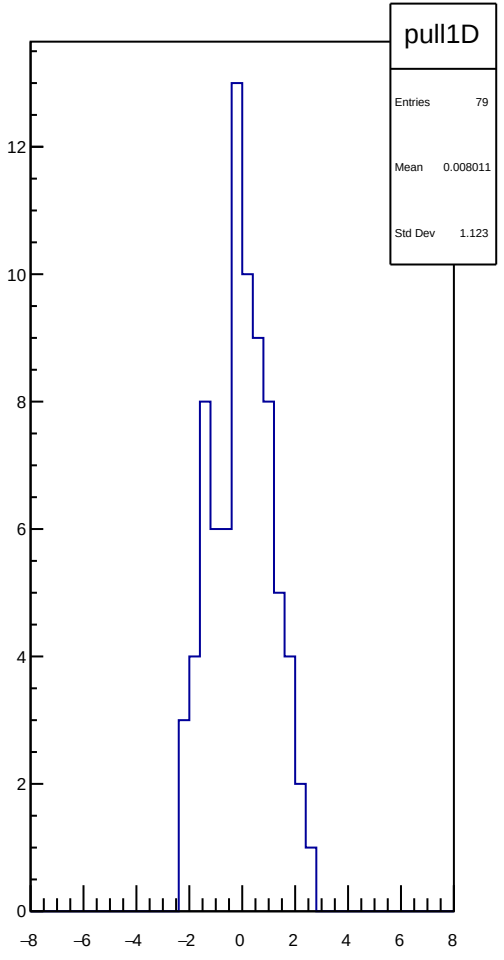

reg_asym_sam8_rms vs run
χ^2 / ndf 7910 / 78
p0 70.88 ± 0.05738
130
120
110
100
90
80
70
60

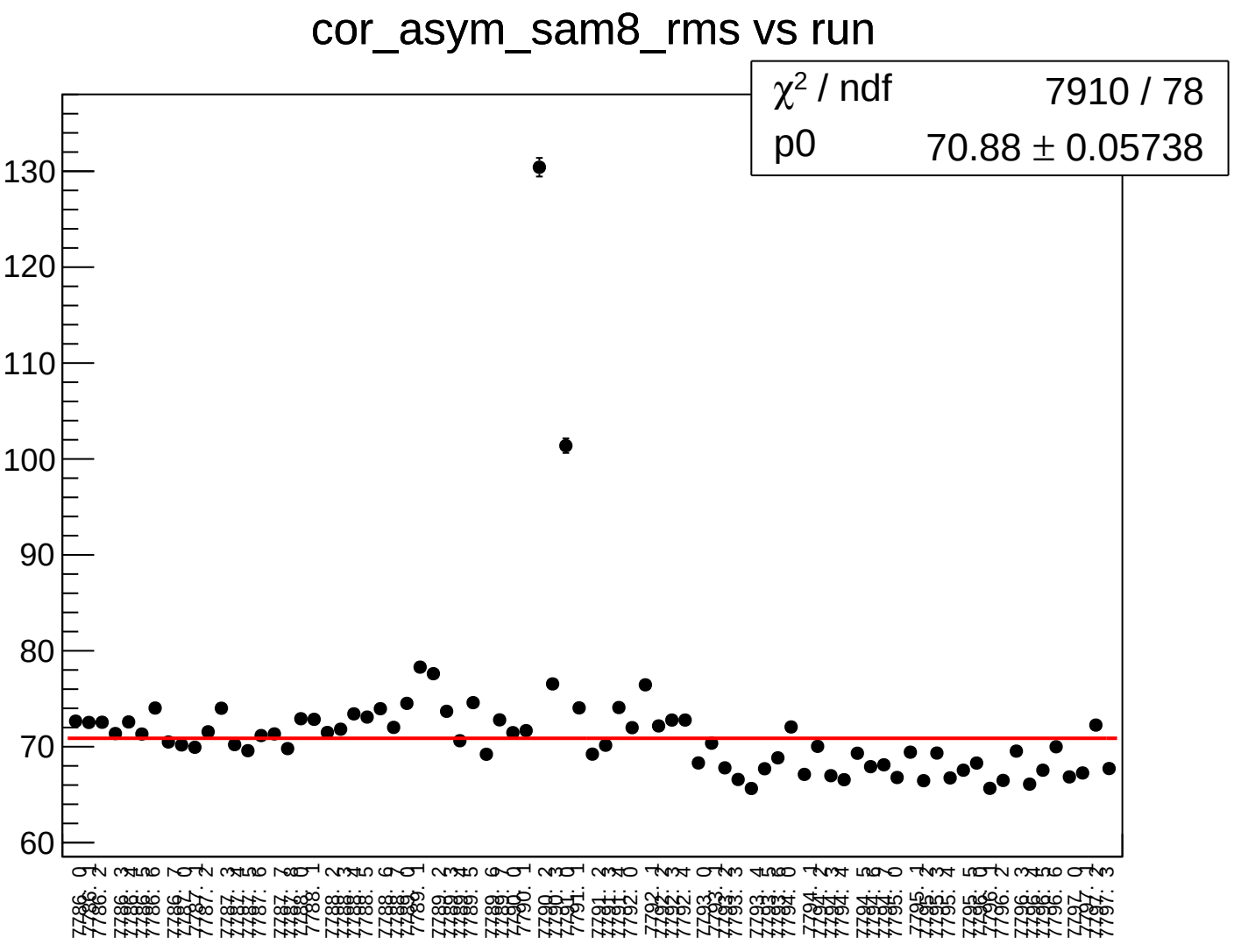

asym_sam8_reg_correction_mean vs run
χ² / ndf 75.27 / 78
p0 −1014 ± 640.1
pull
Entries 79
Mean −37.58
Std Dev 32.22

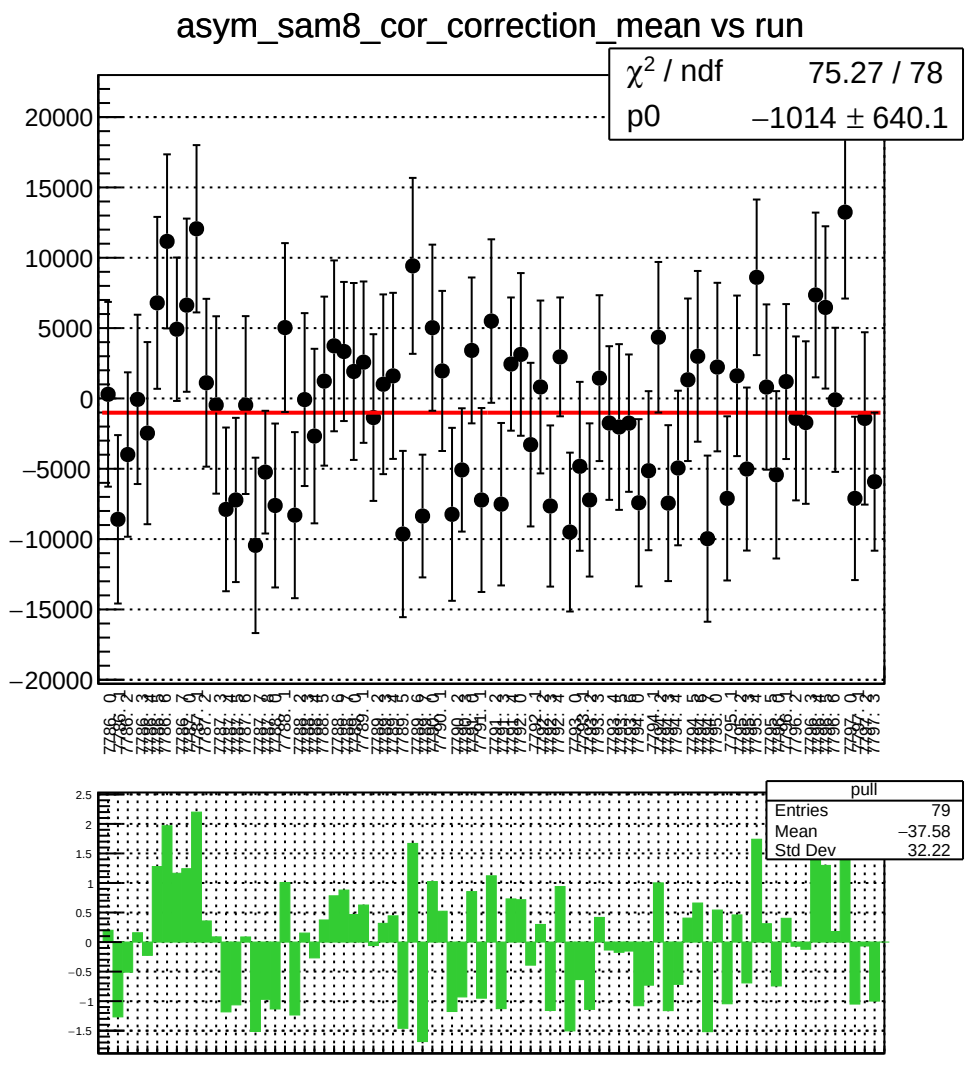

pull1D
Entries 79
Mean 0.01033
Std Dev 0.9761

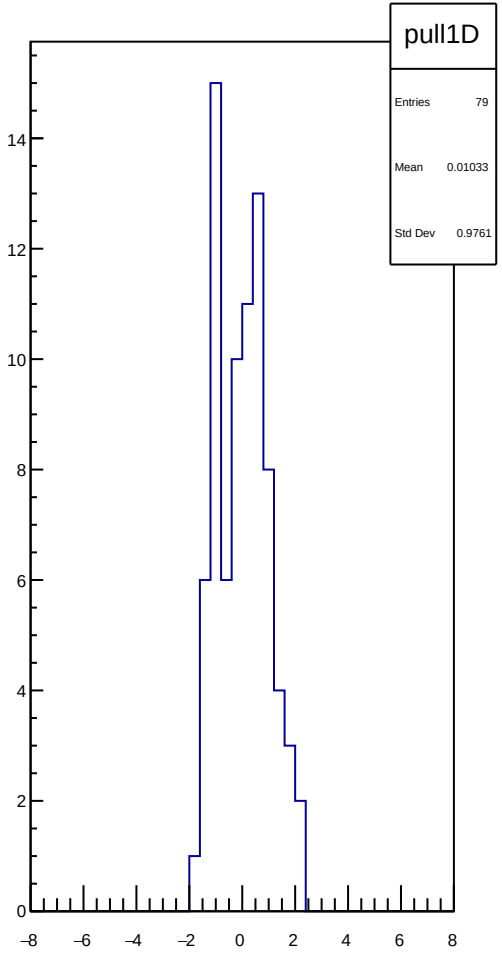

asym_sam8_reg_correction_rms vs run
χ² / ndf 2725 / 78
p0 560.1 ± 0.4526
640
620
600
580
560
540
520
500
480

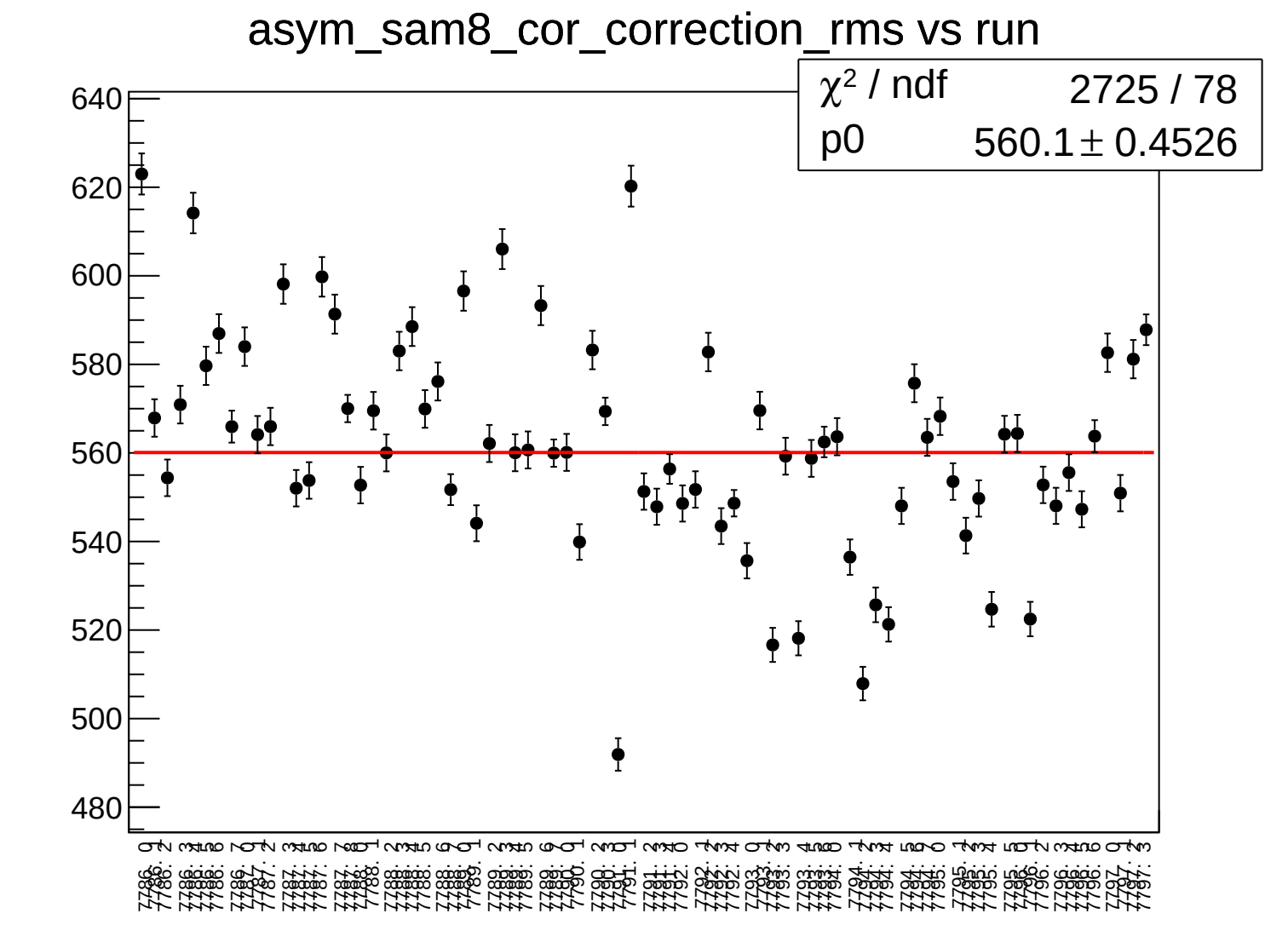

cor_asym_sam8_mean vs run
χ² / ndf 99.71 / 78
p0 16.39 ± 81.14
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 79
Mean −59.09
Std Dev 0
2
1
0
−1
−2

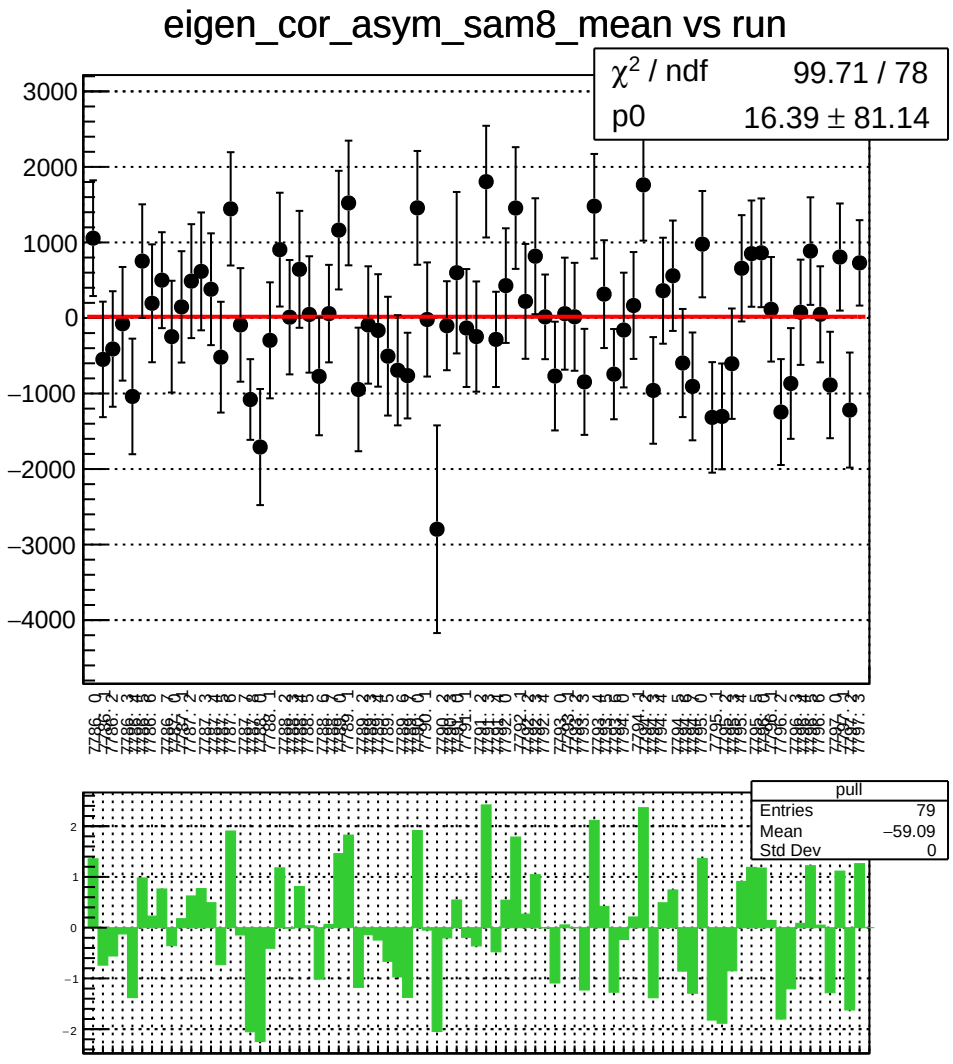

pull1D
Entries 79
Mean 0.008011
Std Dev 1.123
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

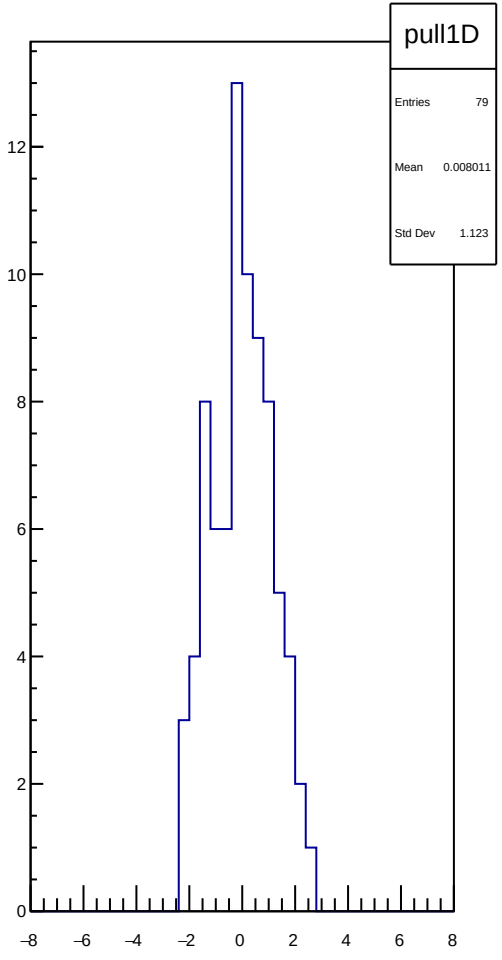

cor_asym_sam8_rms vs run
χ^2 / ndf 7910 / 78
p0 70.88 ± 0.05738
130
120
110
100
90
80
70
60

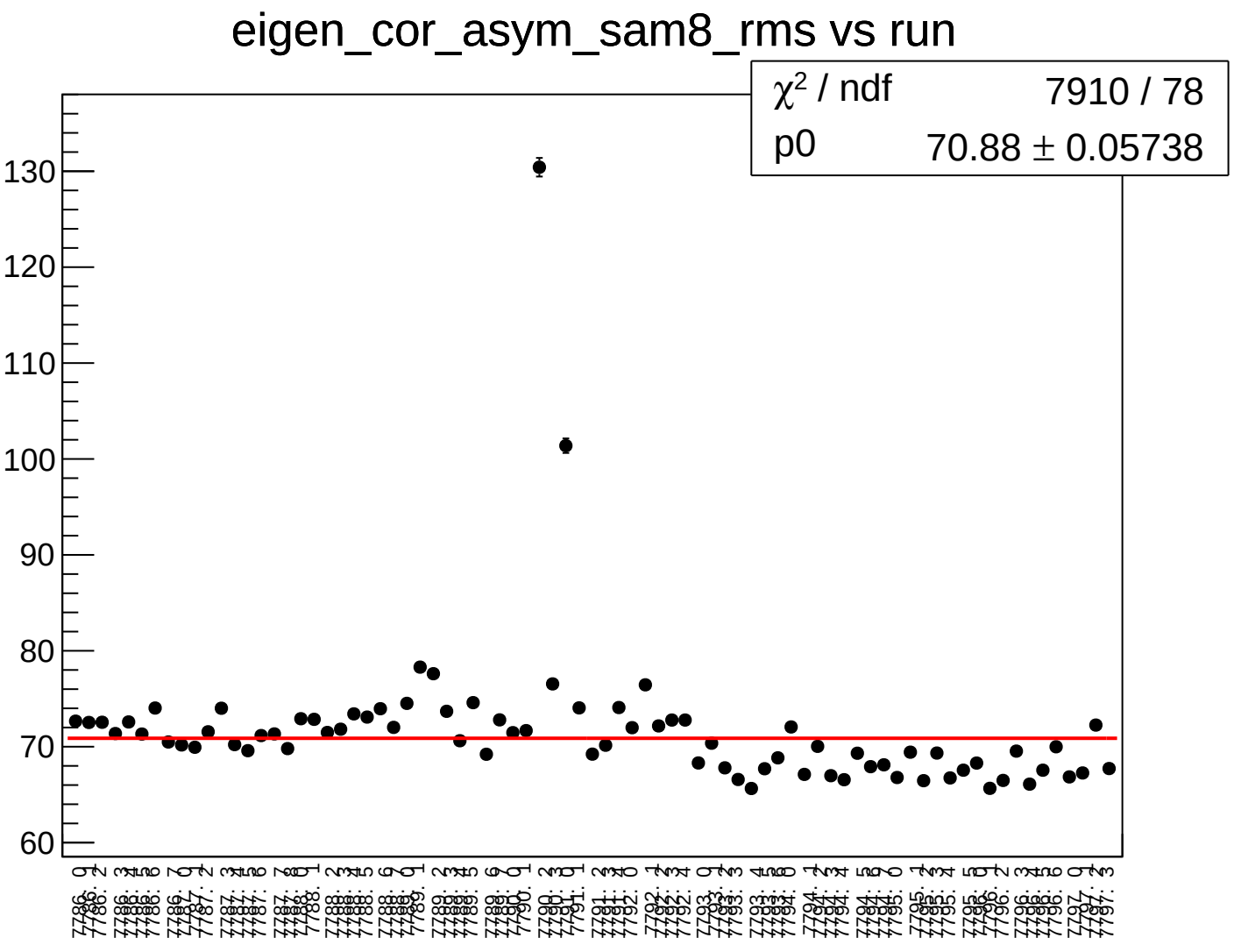

asym_sam8_cor_correction_mean vs run
χ² / ndf 75.27 / 78
p0 −1014 ± 640.1
pull
Entries 79
Mean −37.58
Std Dev 32.22

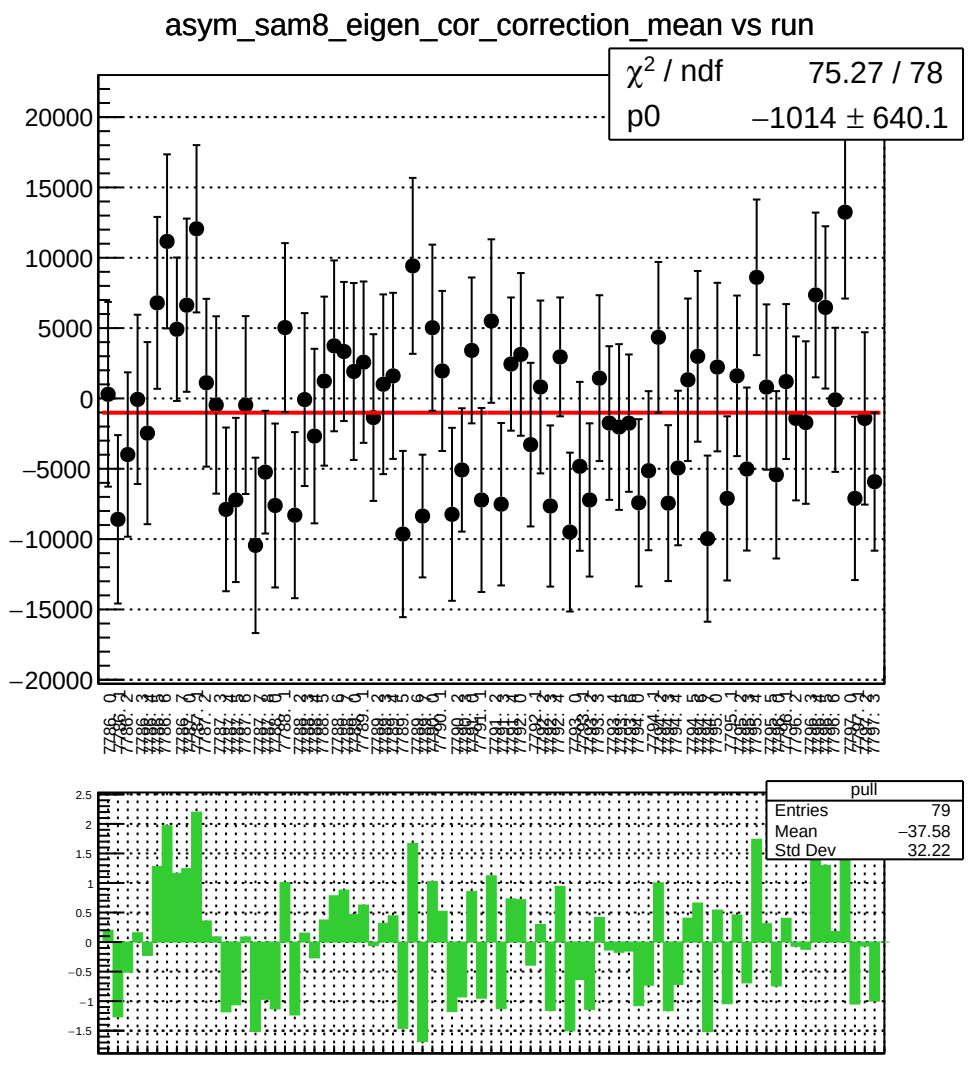

pull1D
Entries 79
Mean 0.01033
Std Dev 0.9761

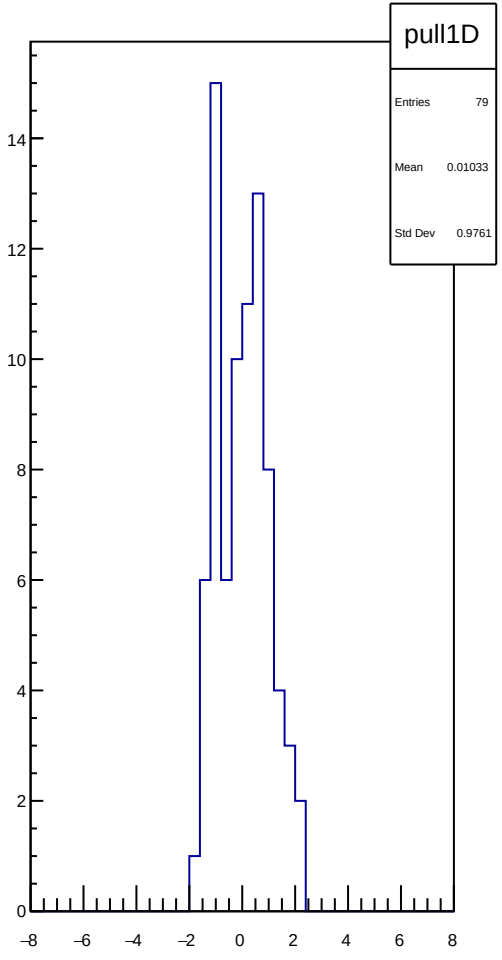

asym_sam8_cor_correction_rms vs run
χ² / ndf 2725 / 78
p0 560.1 ± 0.4526
640
620
600
580
560
540
520
500
480

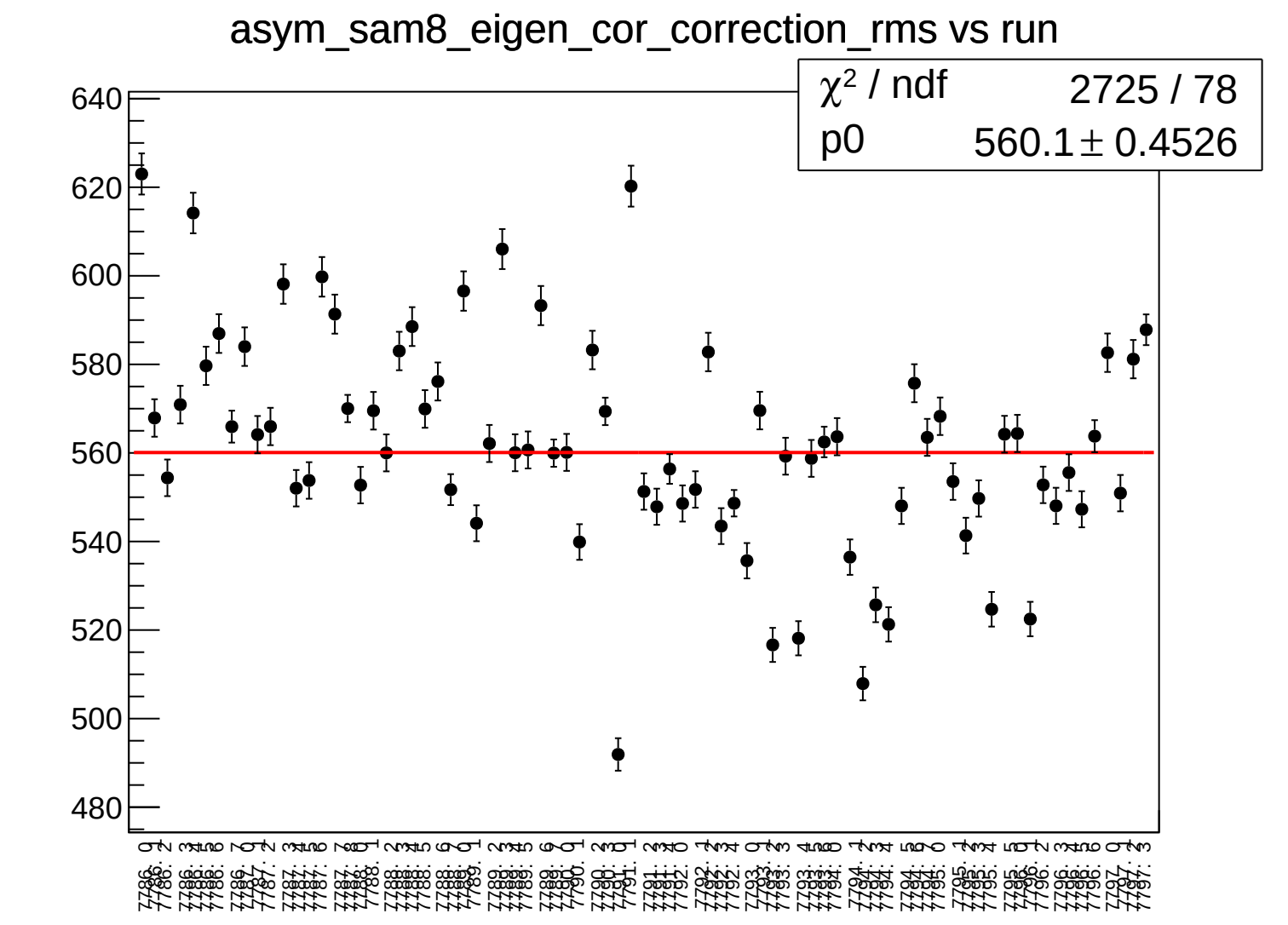

eigen_cor_asym_sam8_mean vs run
χ² / ndf 99.71 / 78
p0 16.39 ± 81.14
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 79
Mean −59.09
Std Dev 0
2
1
0
−1
−2

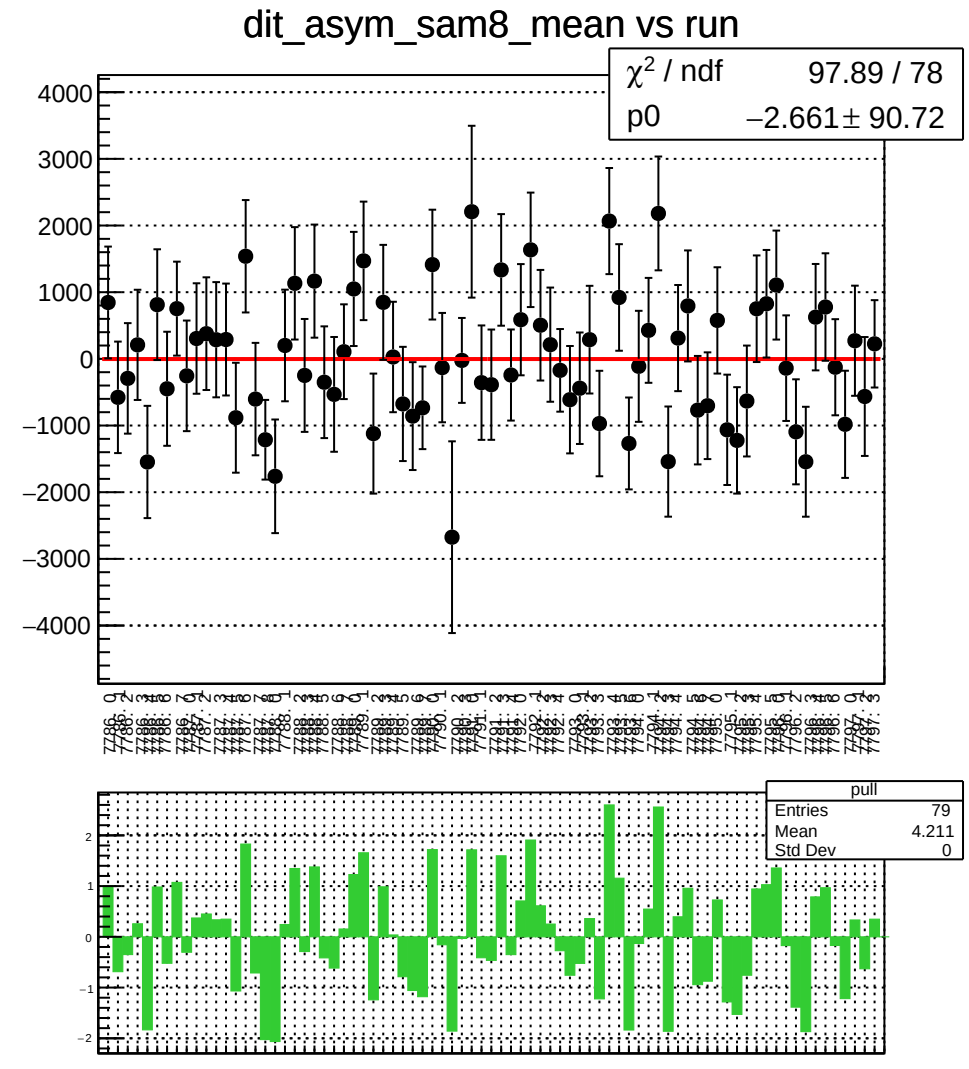

pull1D
Entries 79
Mean 0.008011
Std Dev 1.123
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

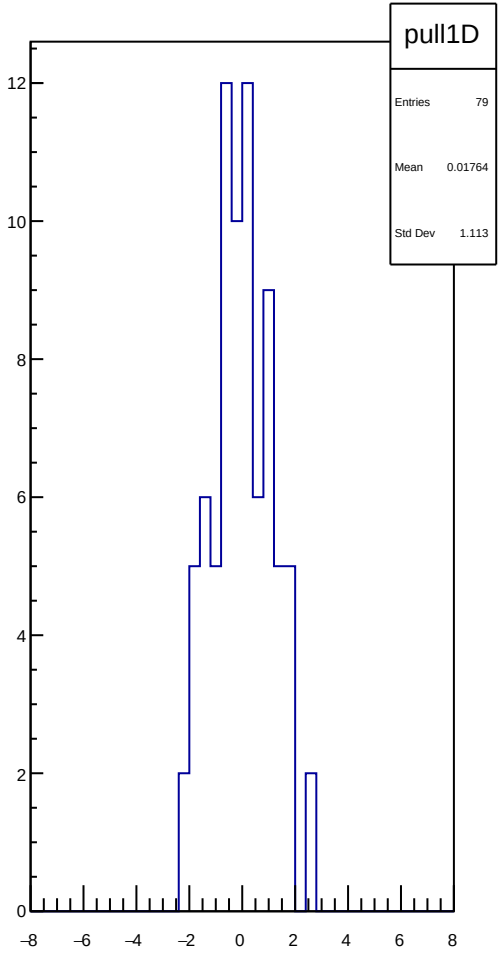

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 7910 / 78
p0 70.88 ± 0.05738
130
120
110
100
90
80
70
60

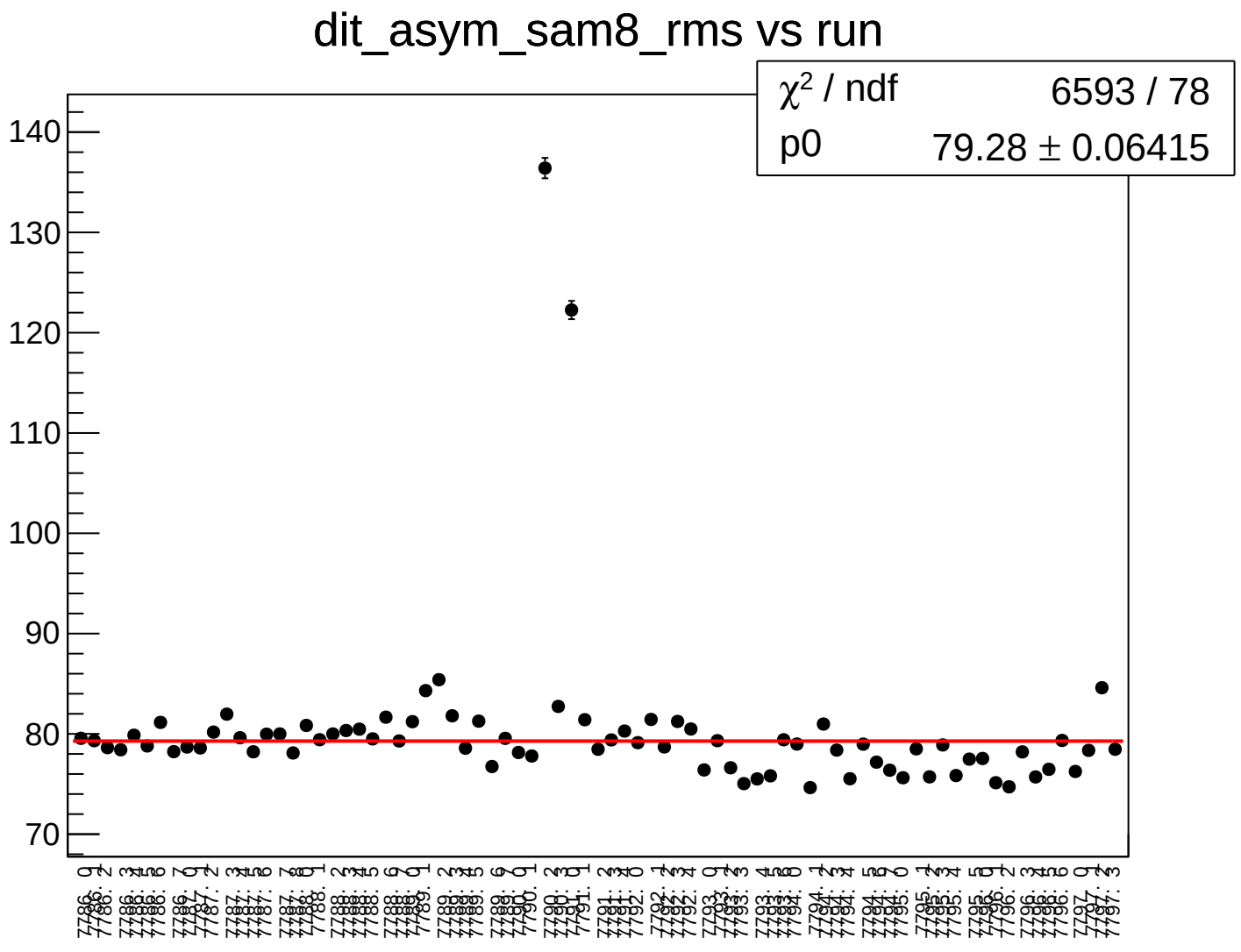

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 75.27 / 78
p0 −1014 ± 640.1
pull
Entries 79
Mean −37.58
Std Dev 32.22

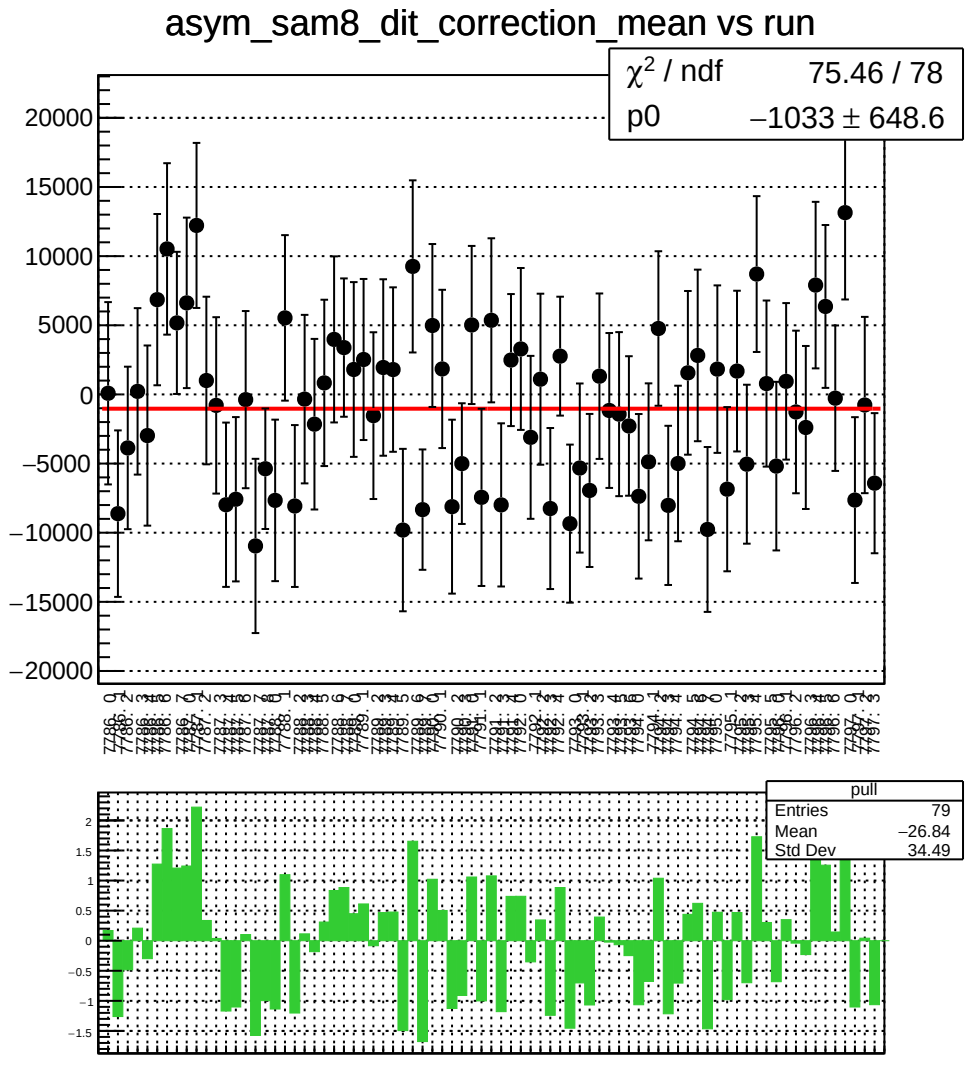

pull1D
Entries 79
Mean 0.01033
Std Dev 0.9761

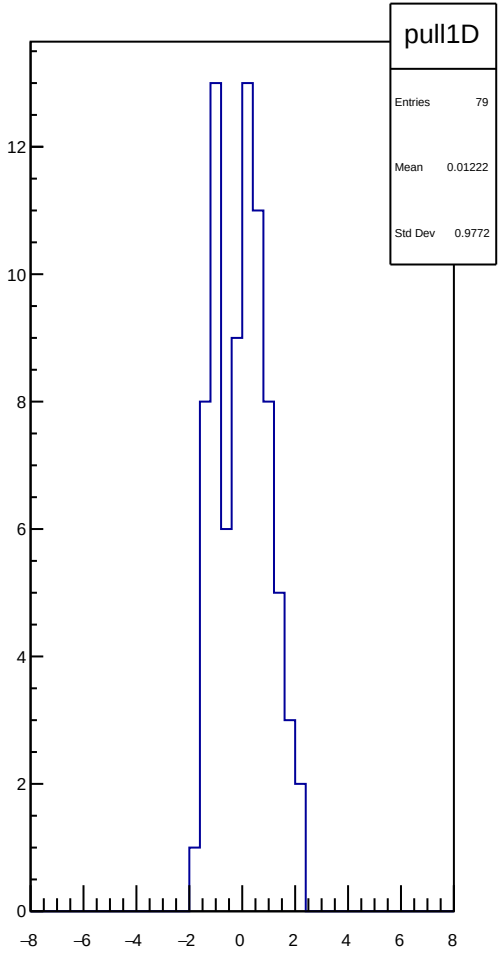

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 2725 / 78
p0 560.1 ± 0.4526
640
620
600
580
560
540
520
500
480

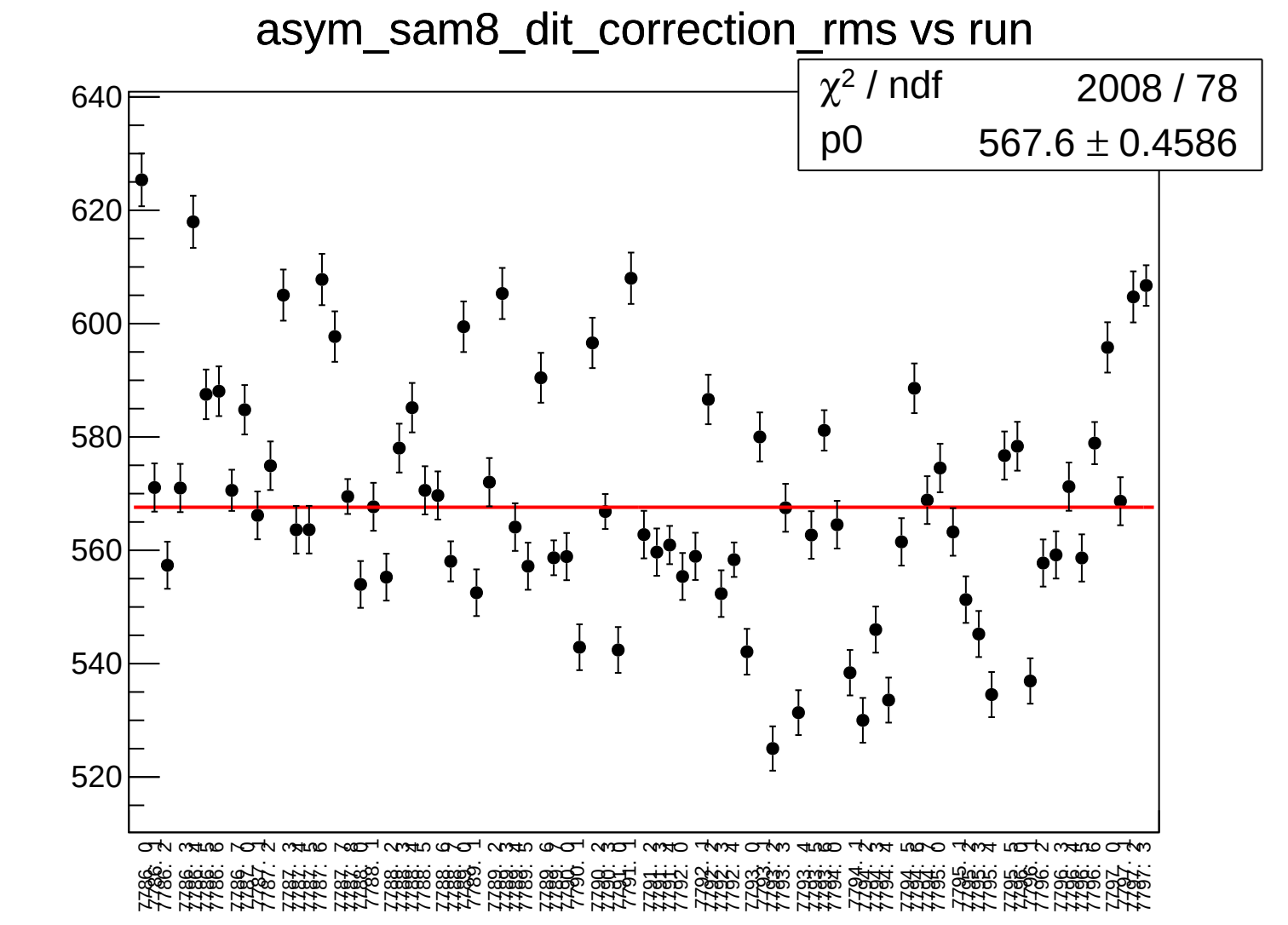

dit_asym_sam8_mean vs run
χ² / ndf 97.89 / 78
p0 −2.661± 90.72
pull
Entries 79
Mean 4.211
Std Dev 0

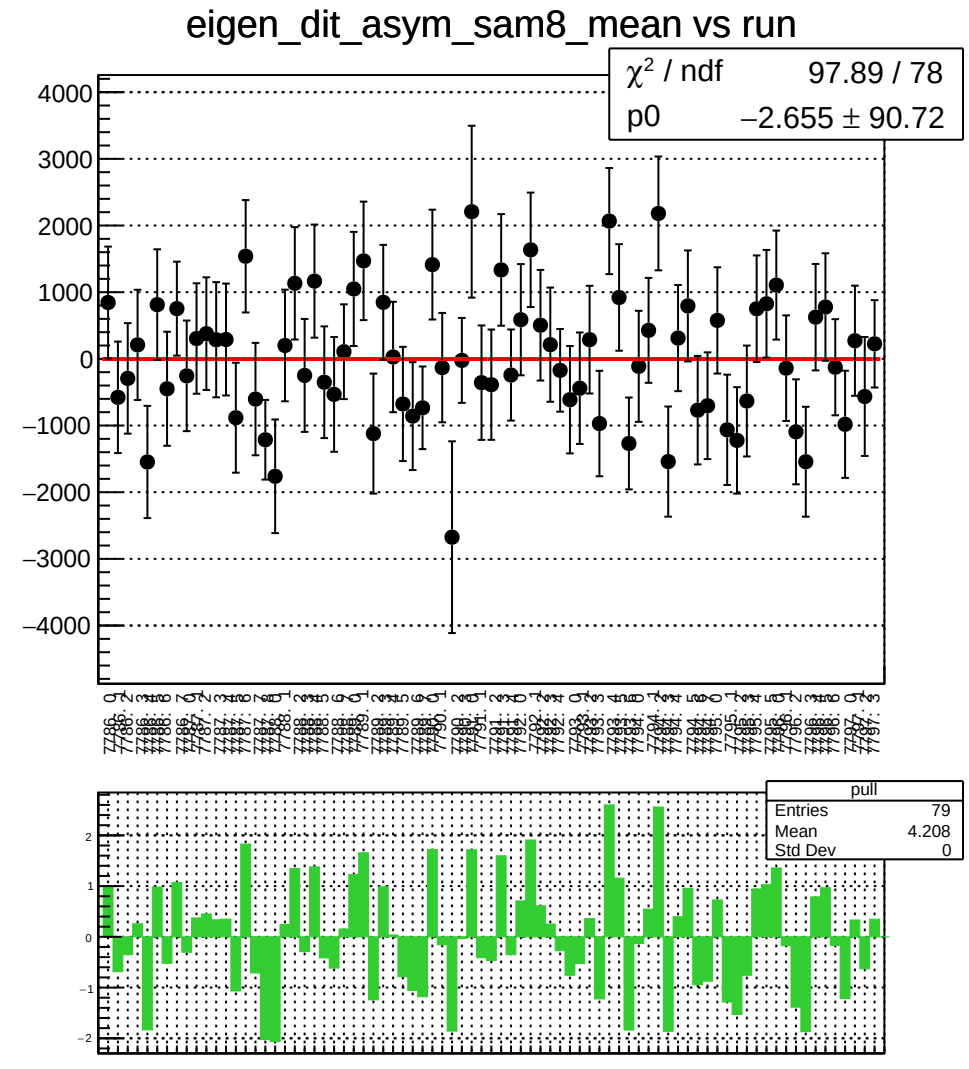

pull1D
Entries 79
Mean 0.01764
Std Dev 1.113

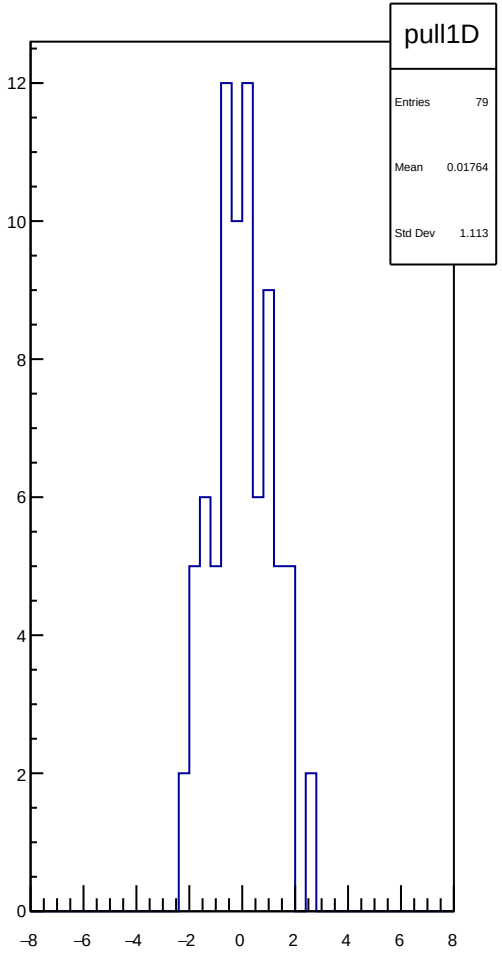

dit_asym_sam8_rms vs run
χ^2 / ndf 6593 / 78
p0 79.28 ± 0.06415
140
130
120
110
100
90
80
70

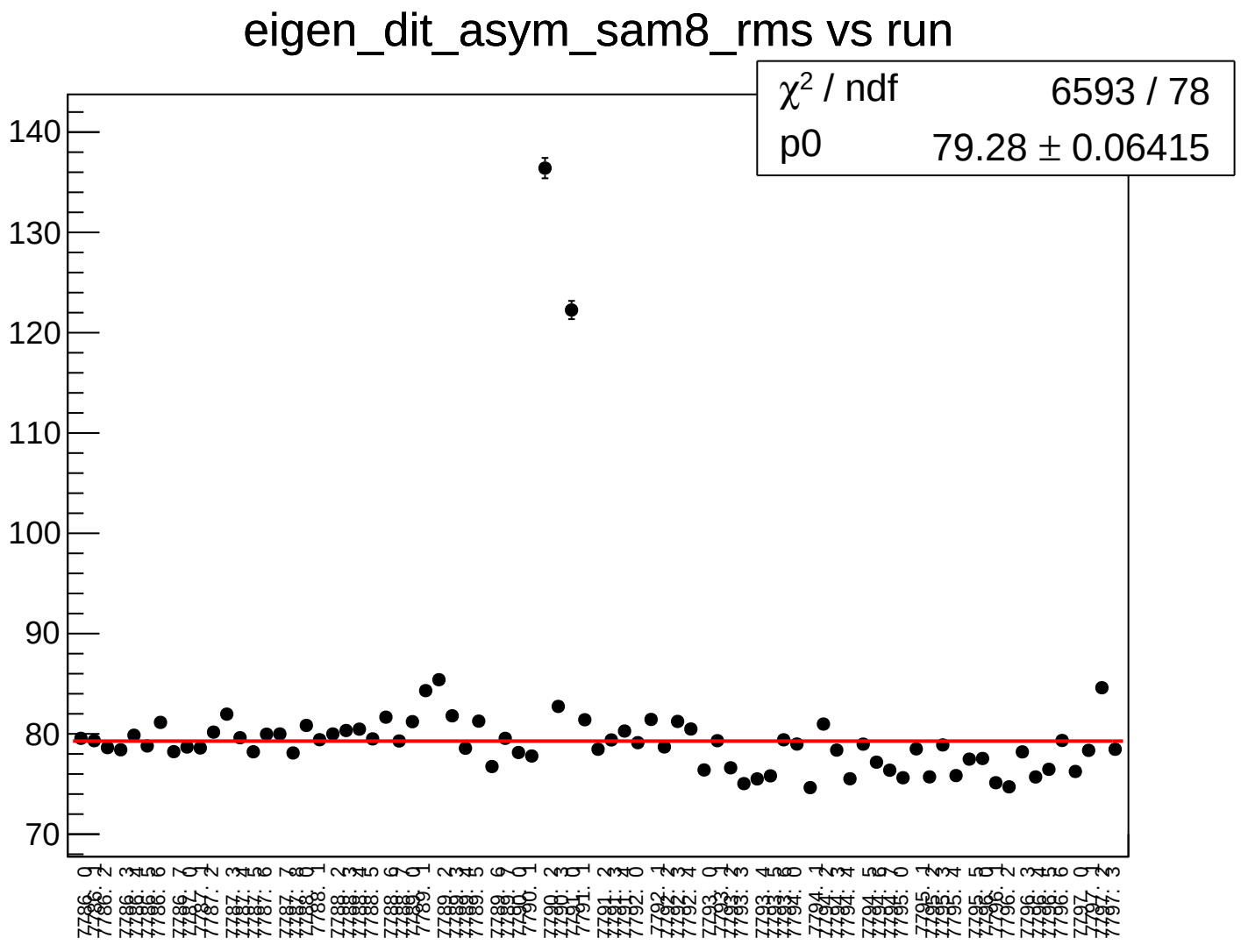

asym_sam8_dit_correction_mean vs run
χ² / ndf 75.46 / 78
p0 −1033 ± 648.6
pull
Entries 79
Mean −26.84
Std Dev 34.49

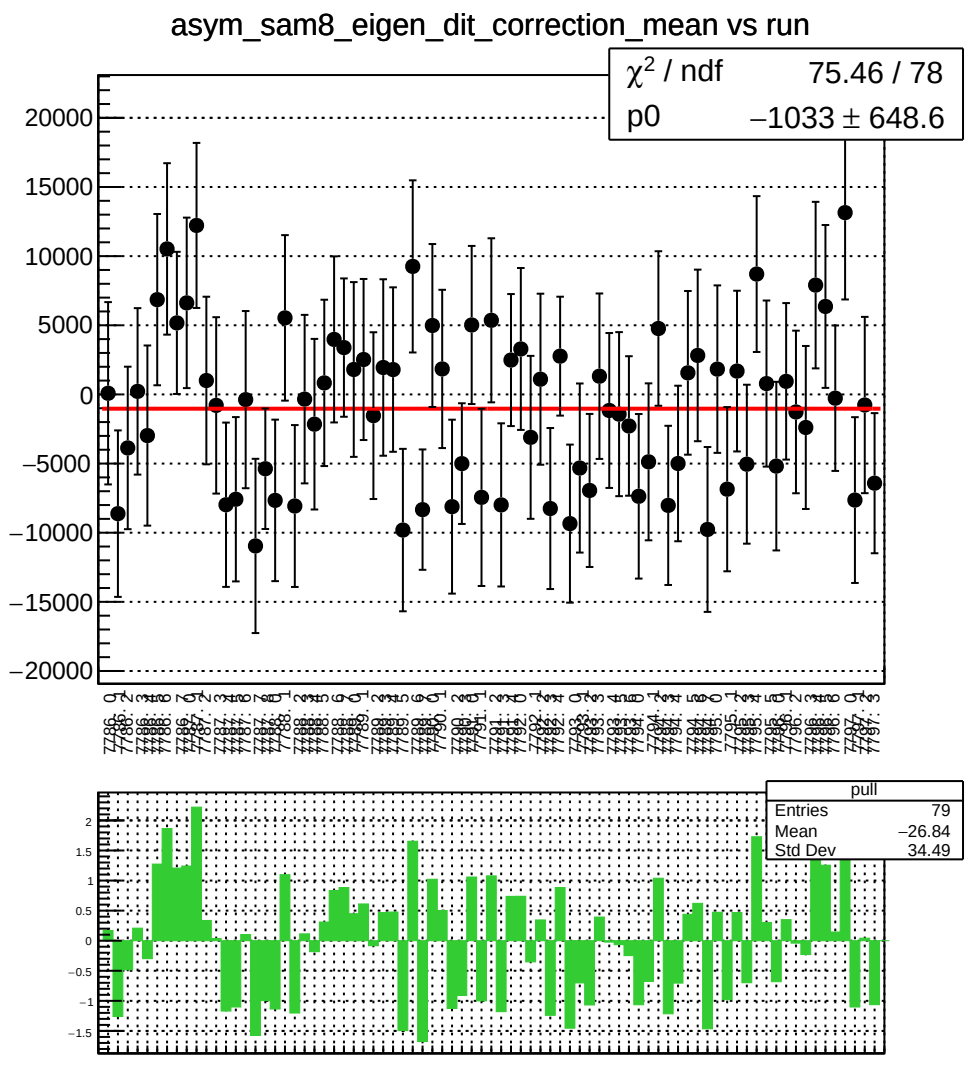

pull1D
Entries 79
Mean 0.01222
Std Dev 0.9772

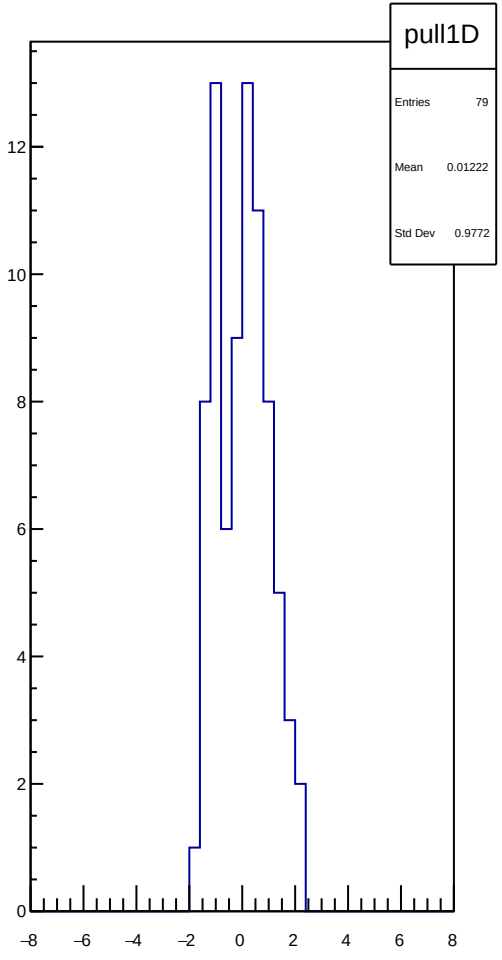

asym_sam8_dit_correction_rms vs run
χ² / ndf 2008 / 78
p0 567.6 ± 0.4586
640
620
600
580
560
540
520

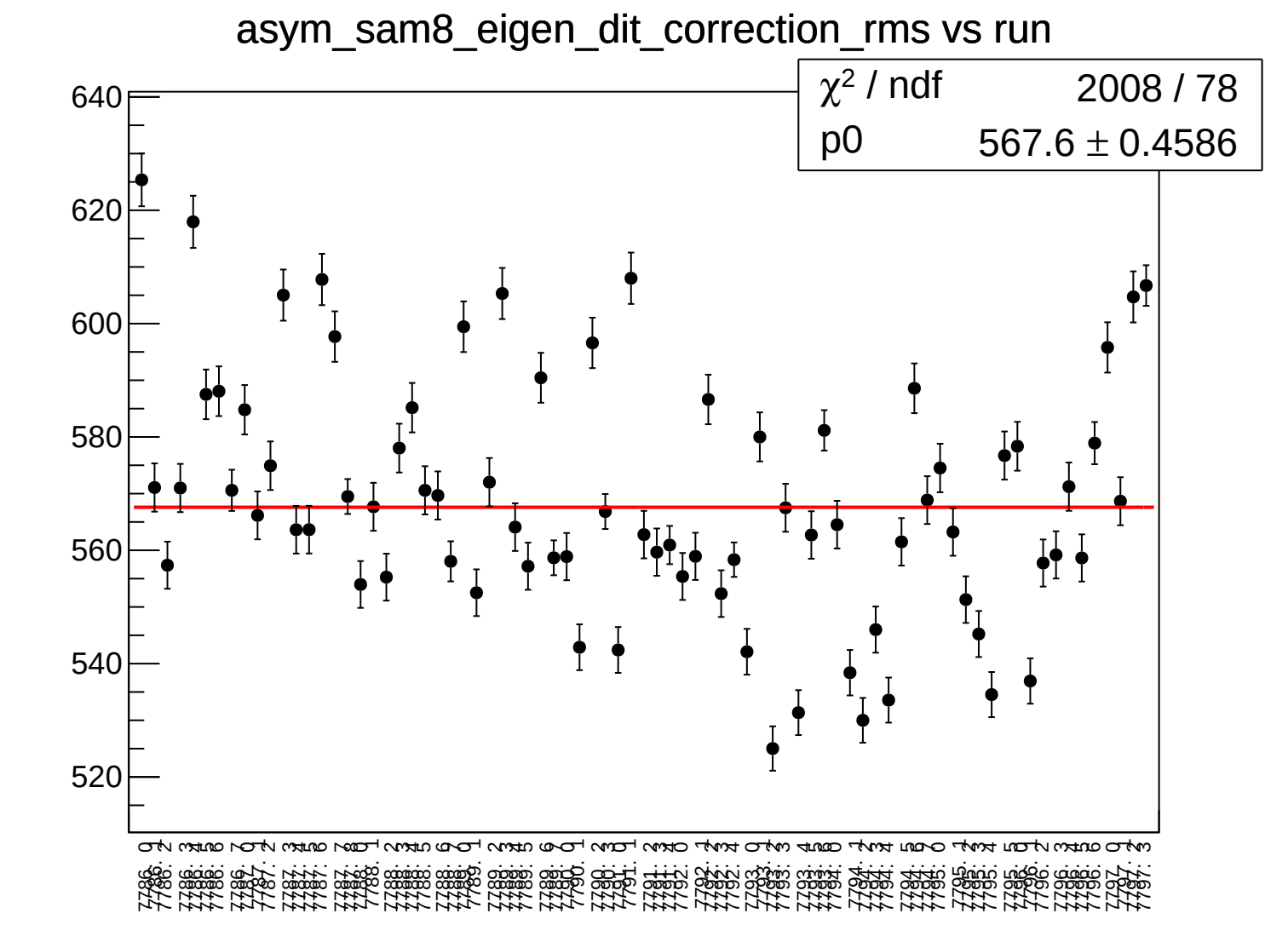

eigen_dit_asym_sam8_mean vs run
χ² / ndf 97.89 / 78
p0 −2.655 ± 90.72
pull
Entries 79
Mean 4.208
Std Dev 0

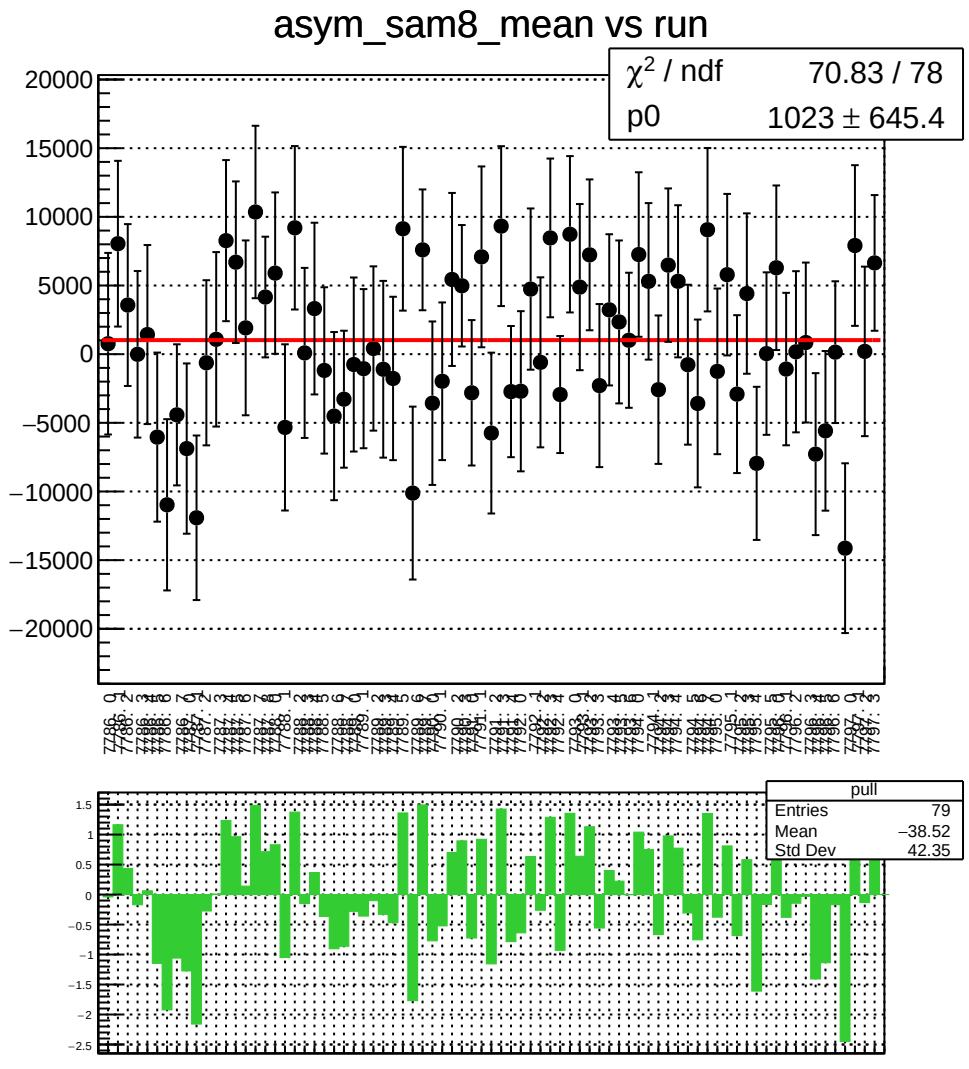

pull1D
Entries 79
Mean 0.01764
Std Dev 1.113

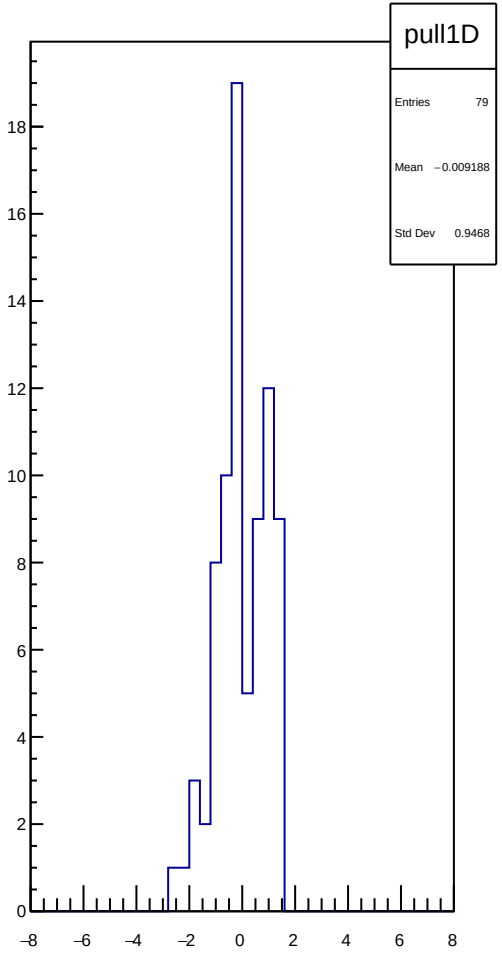

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 6593 / 78
p0 79.28 ± 0.06415
140
130
120
110
100
90
80
70

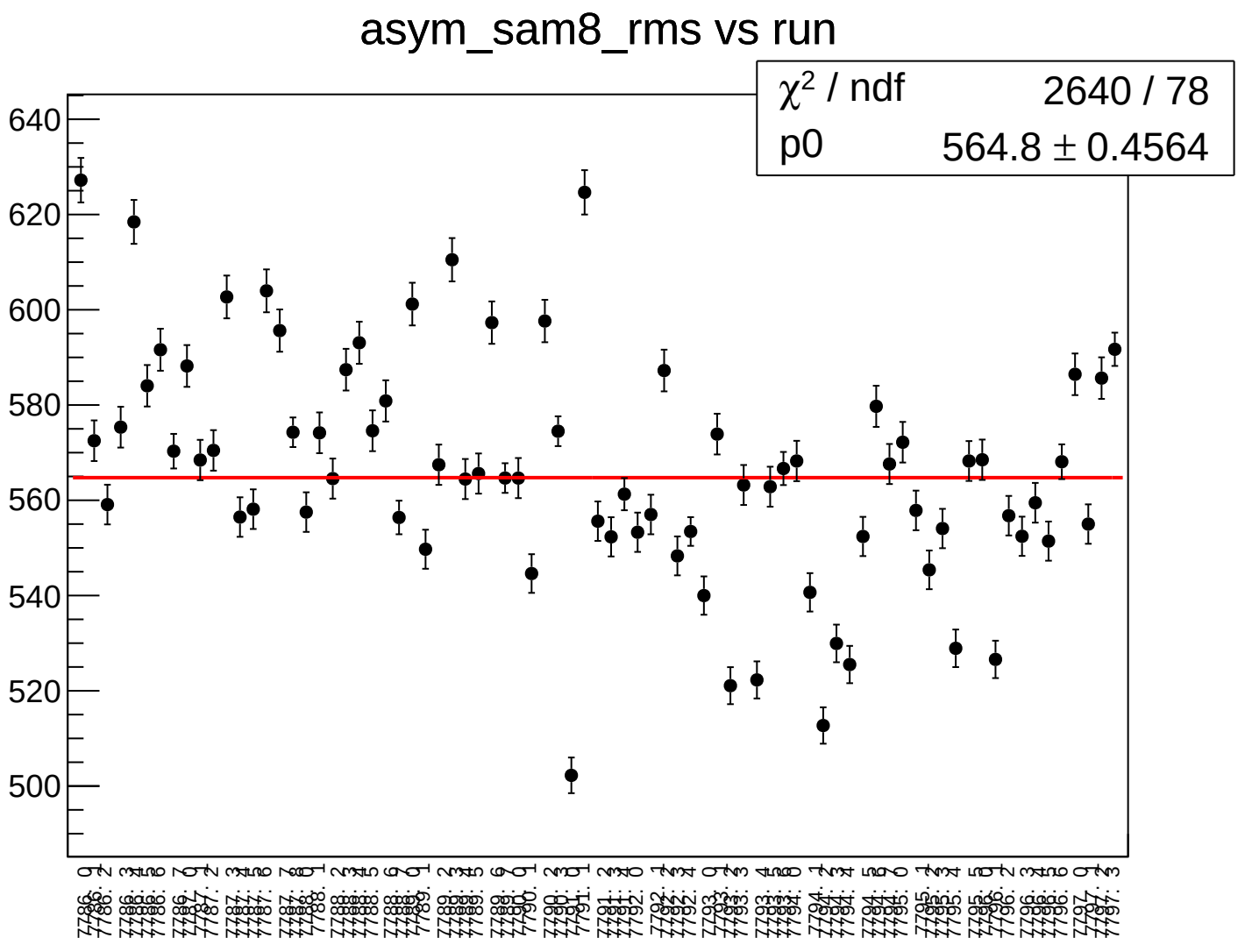

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 75.46 / 78
p0 −1033 ± 648.6
pull
Entries 79
Mean −26.84
Std Dev 34.49

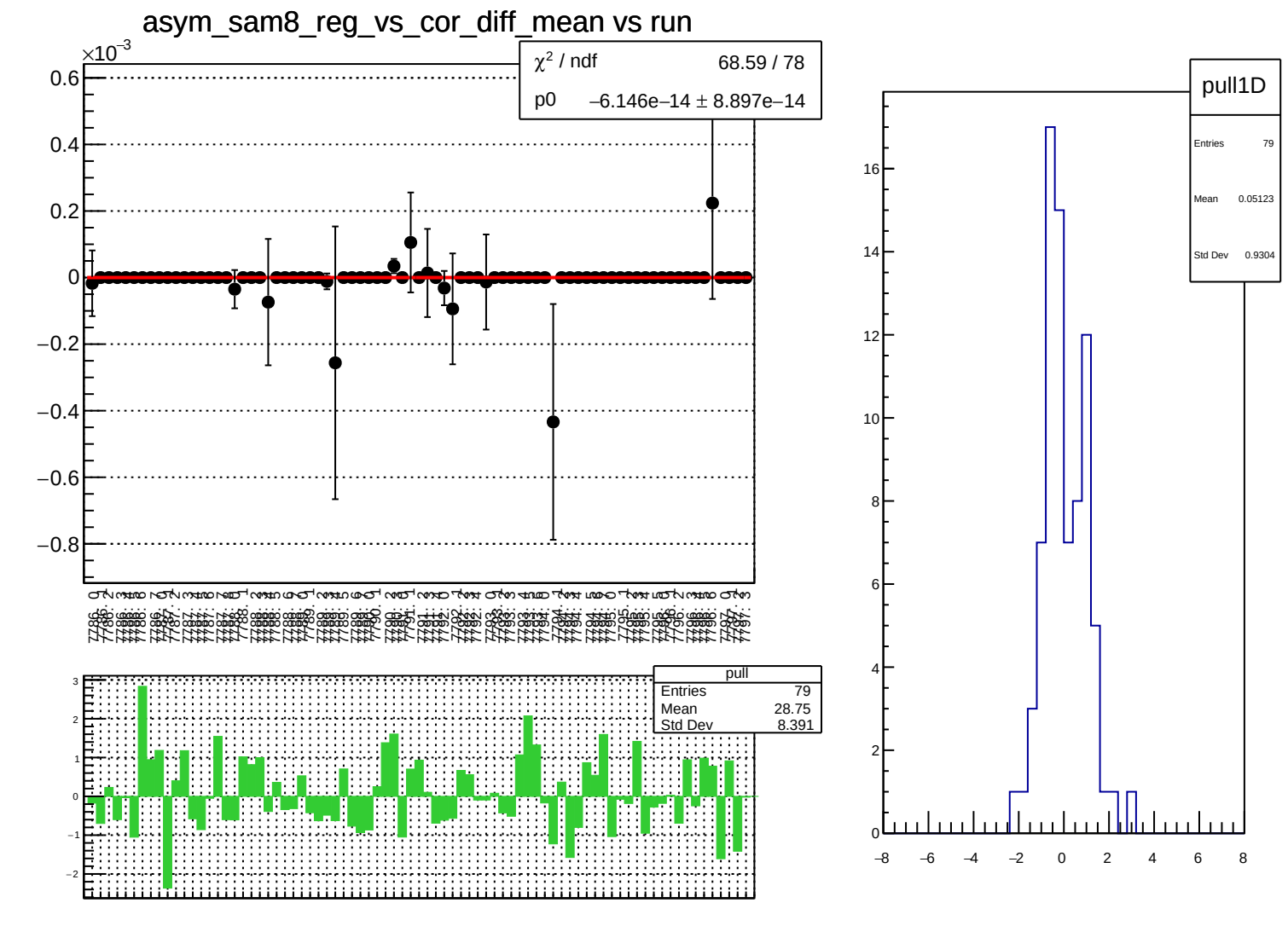

pull1D
Entries 79
Mean 0.01222
Std Dev 0.9772

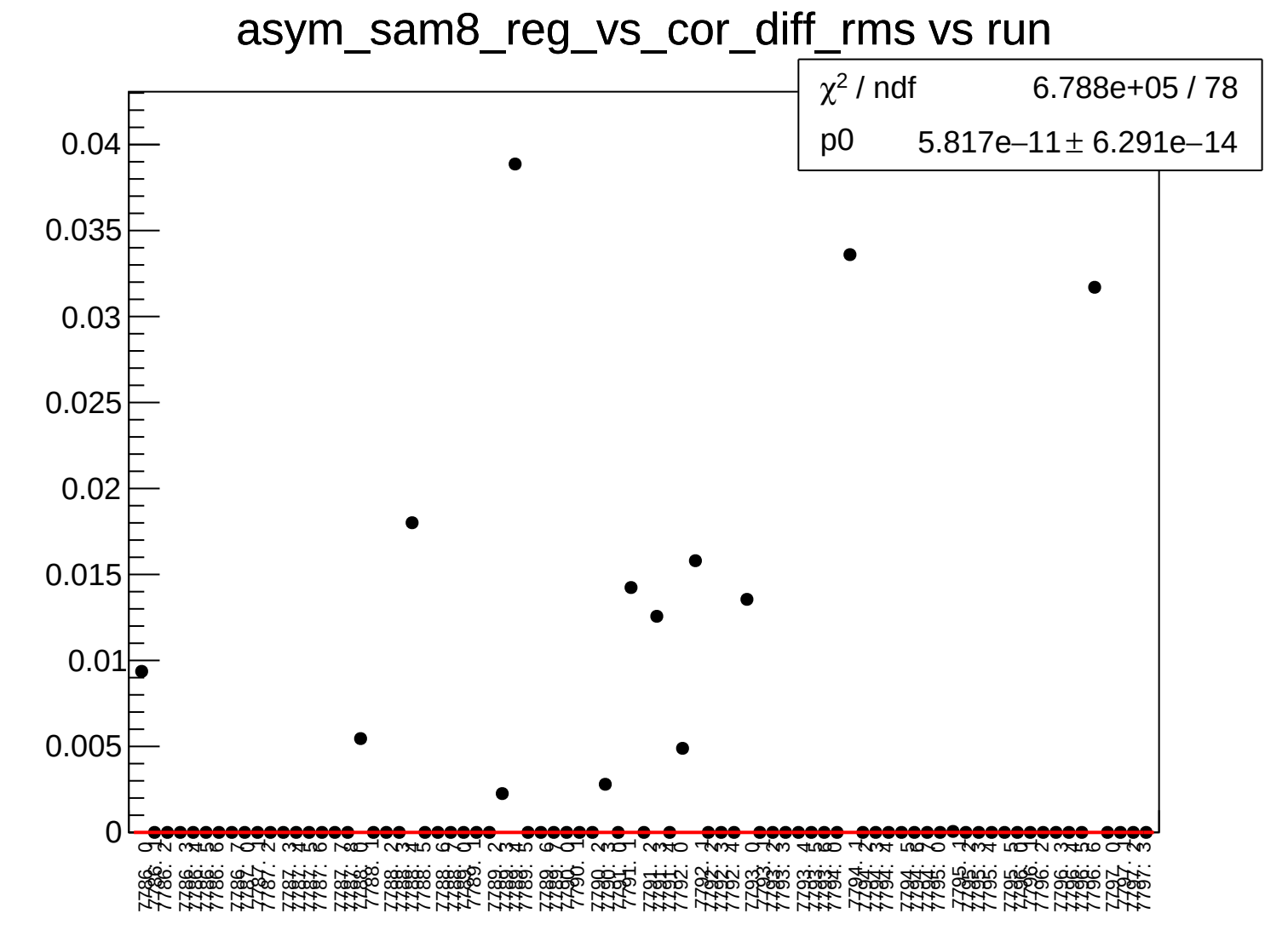

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 2008 / 78
p0 567.6 ± 0.4586
640
620
600
580
560
540
520

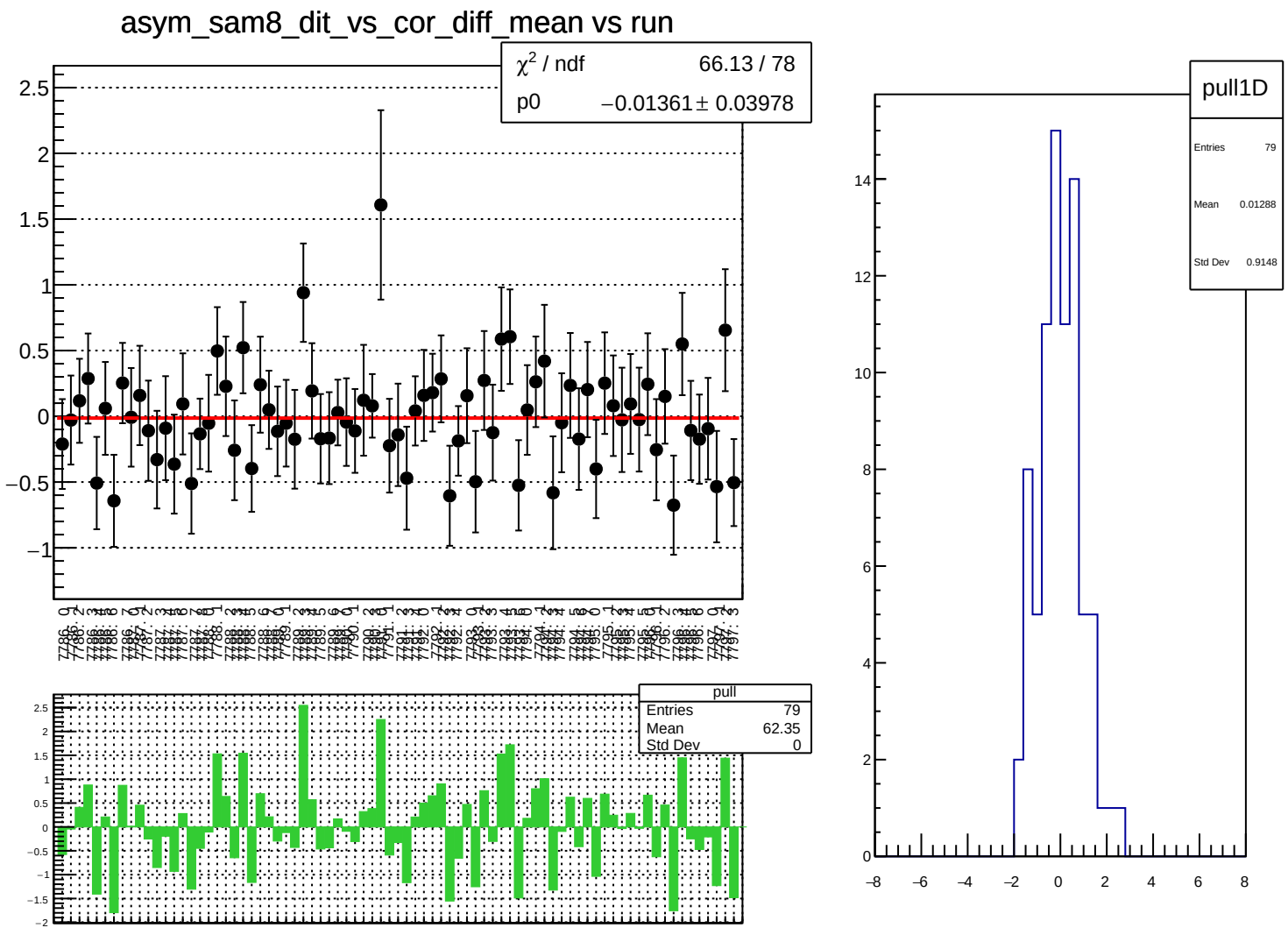

asym_sam8_mean vs run
χ^2 / ndf 70.83 / 78
p0 1023 ± 645.4
pull
Entries 79
Mean −38.52
Std Dev 42.35

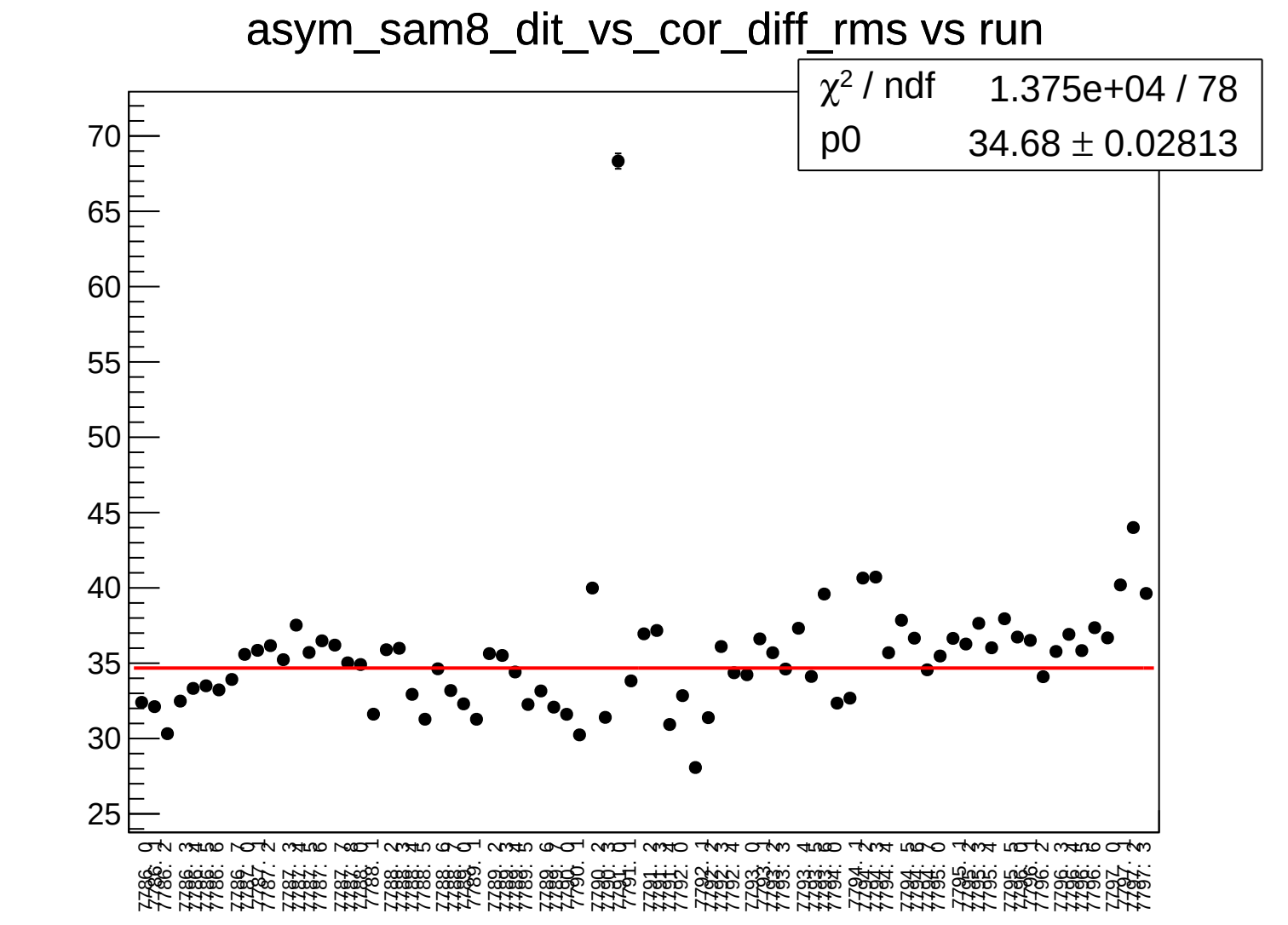

pull1D
Entries 79
Mean −0.009188
Std Dev 0.9468

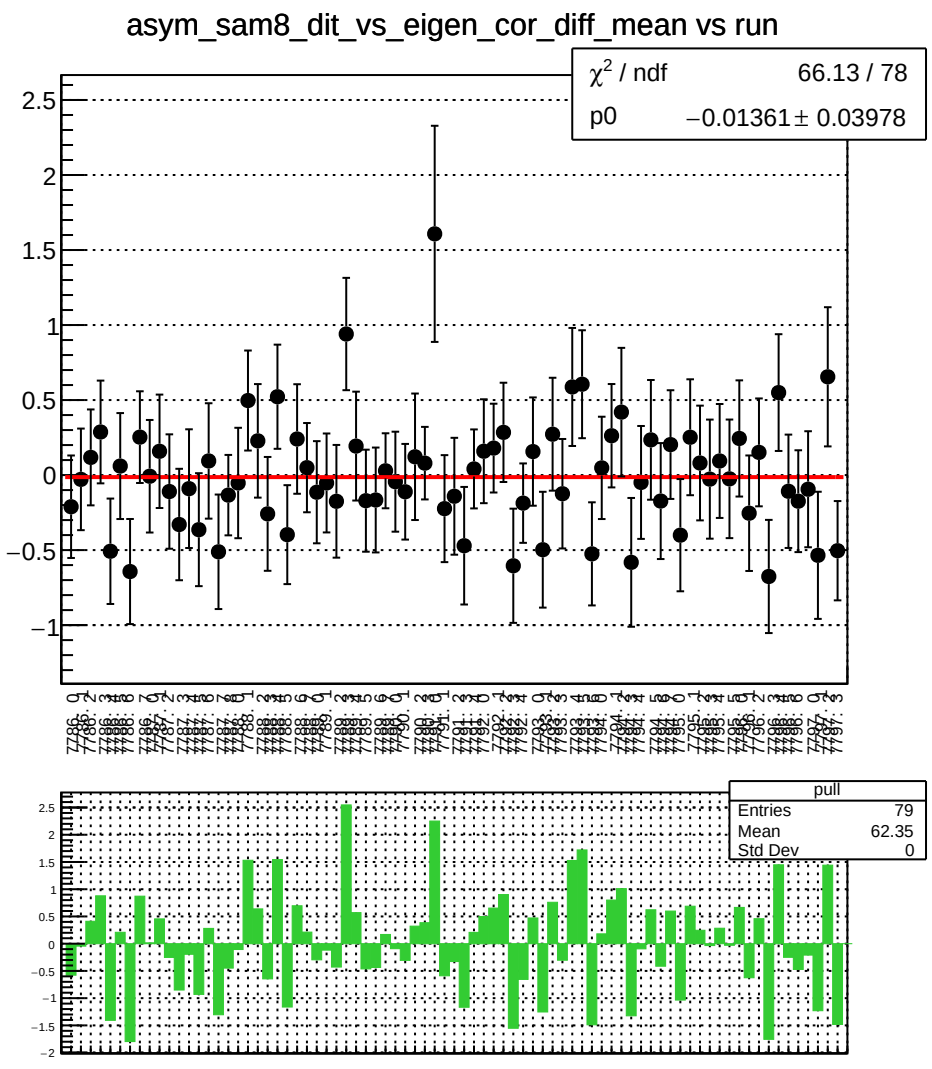

asym_sam8_rms vs run
χ^2 / ndf 2640 / 78
p0 564.8 ± 0.4564
640
620
600
580
560
540
520
500

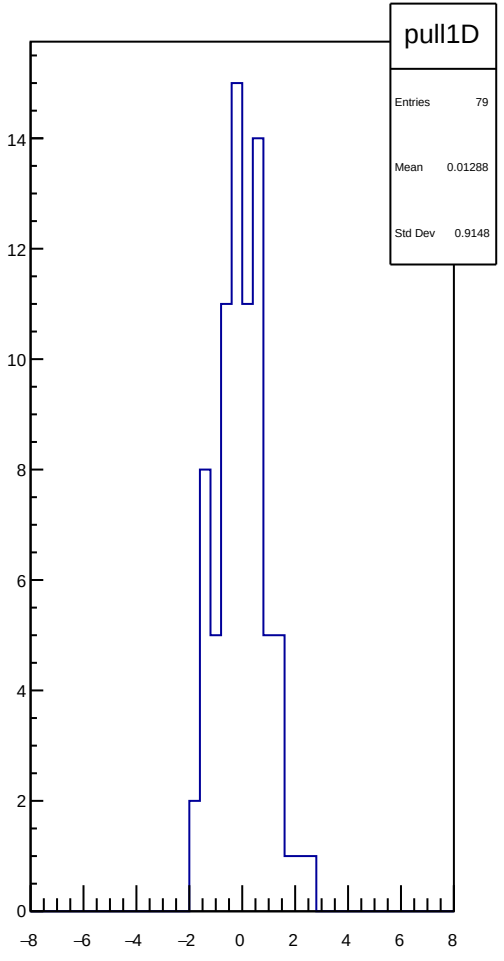

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 68.59 / 78
p0 −6.146e−14 ± 8.897e−14
pull
Entries 79
Mean 28.75
Std Dev 8.391
pull1D
Entries 79
Mean 0.05123
Std Dev 0.9304

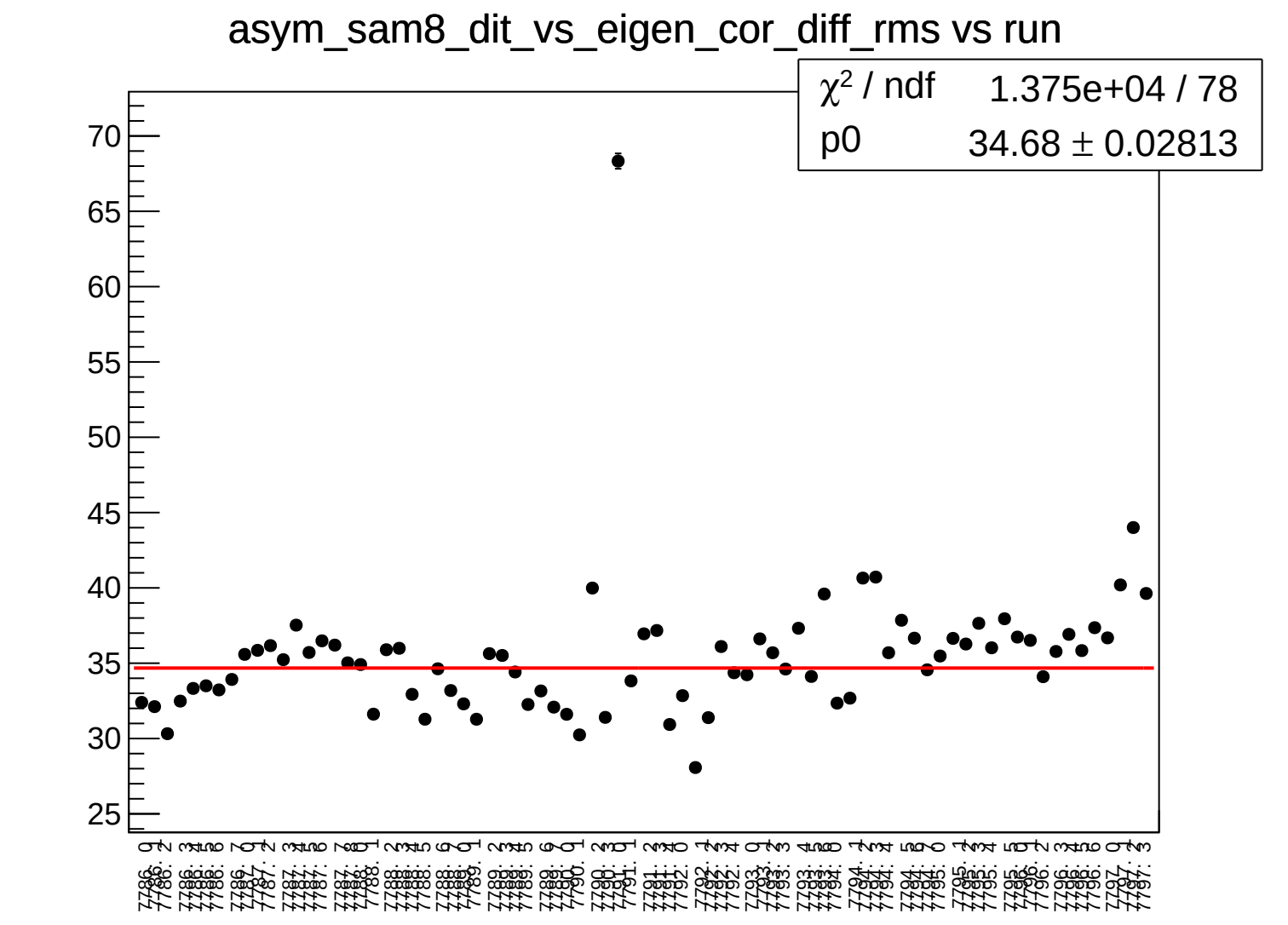

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 6.788e+05 / 78
p0 5.817e−11 ± 6.291e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

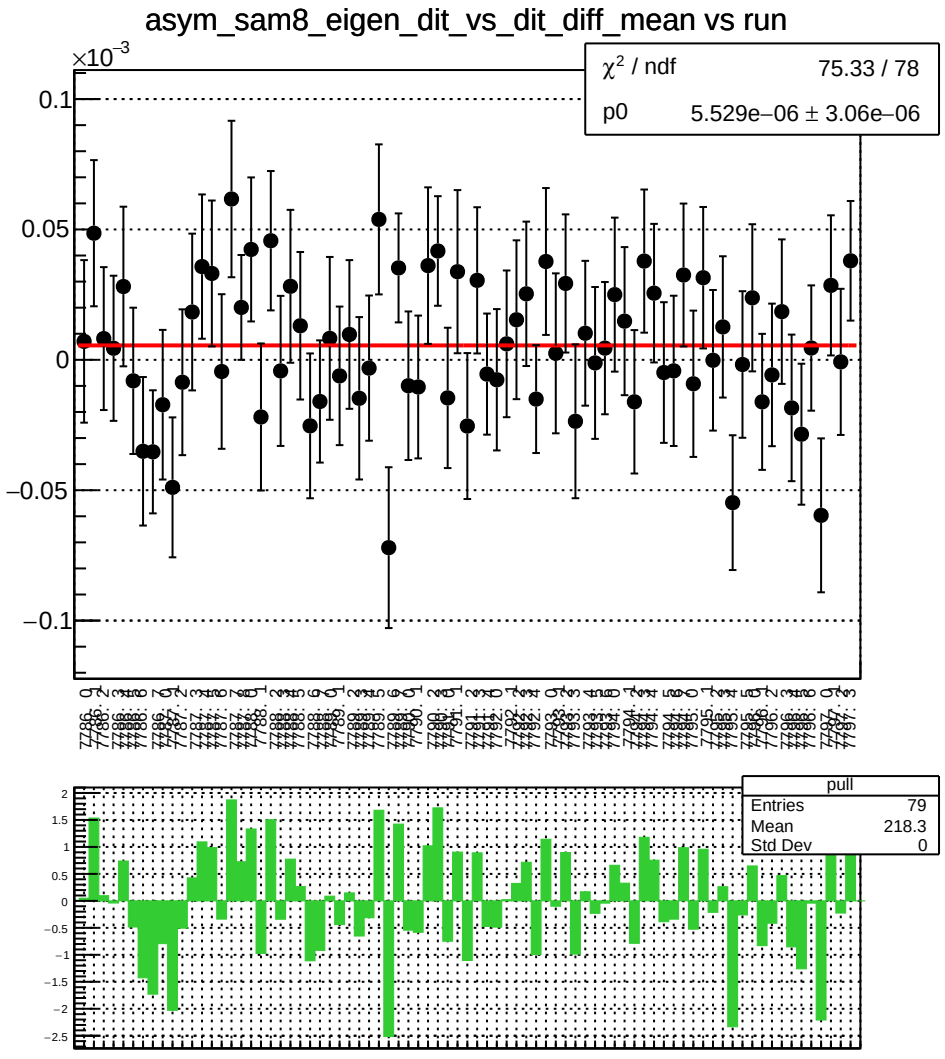

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 66.13 / 78
p0 −0.01361 ± 0.03978
pull
Entries 79
Mean 62.35
Std Dev 0
pull1D
Entries 79
Mean 0.01288
Std Dev 0.9148

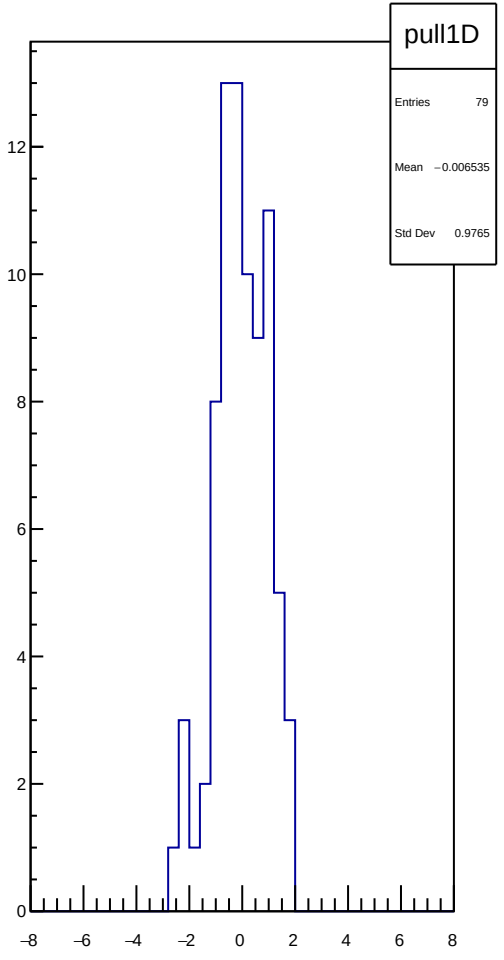

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.375e+04 / 78
p0 34.68 ± 0.02813
70
65
60
55
50
45
40
35
30
25

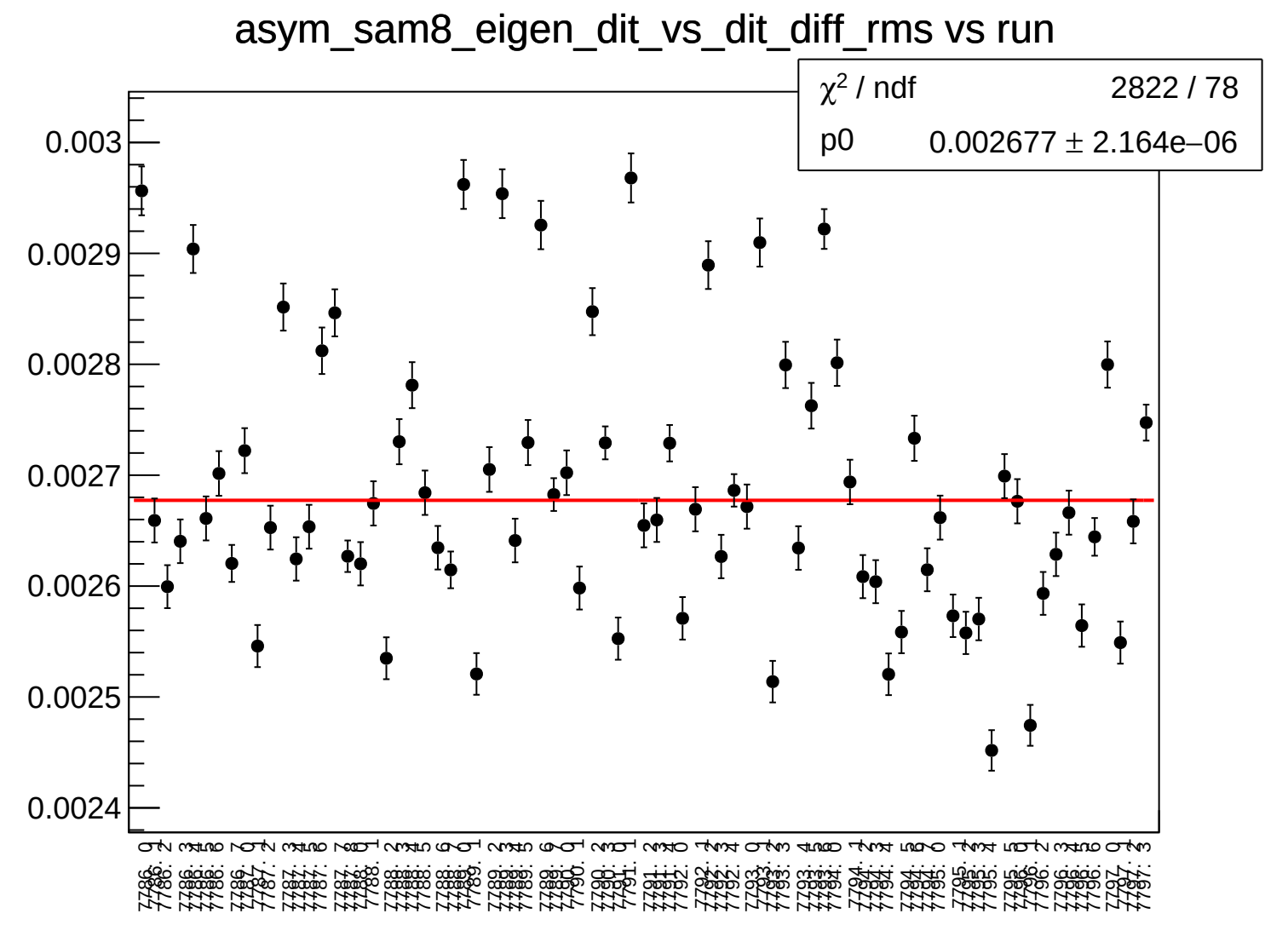

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.13 / 78
p0 −0.01361 ± 0.03978
pull
Entries 79
Mean 62.35
Std Dev 0

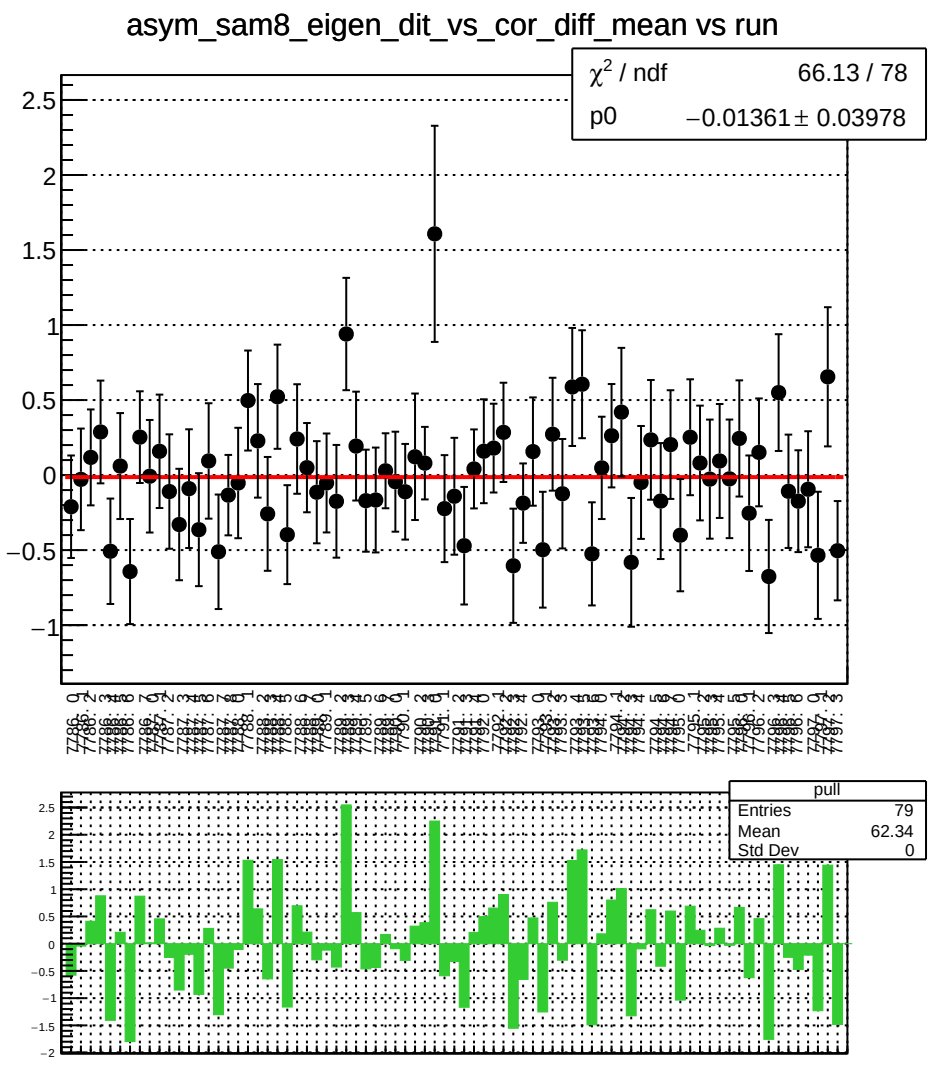

pull1D
Entries 79
Mean 0.01288
Std Dev 0.9148

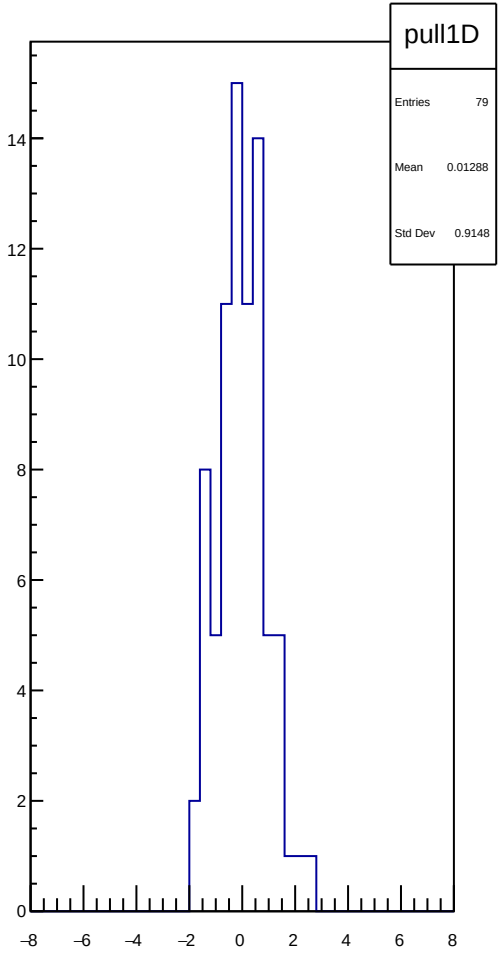

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.375e+04 / 78
p0 34.68 ± 0.02813
70
65
60
55
50
45
40
35
30
25

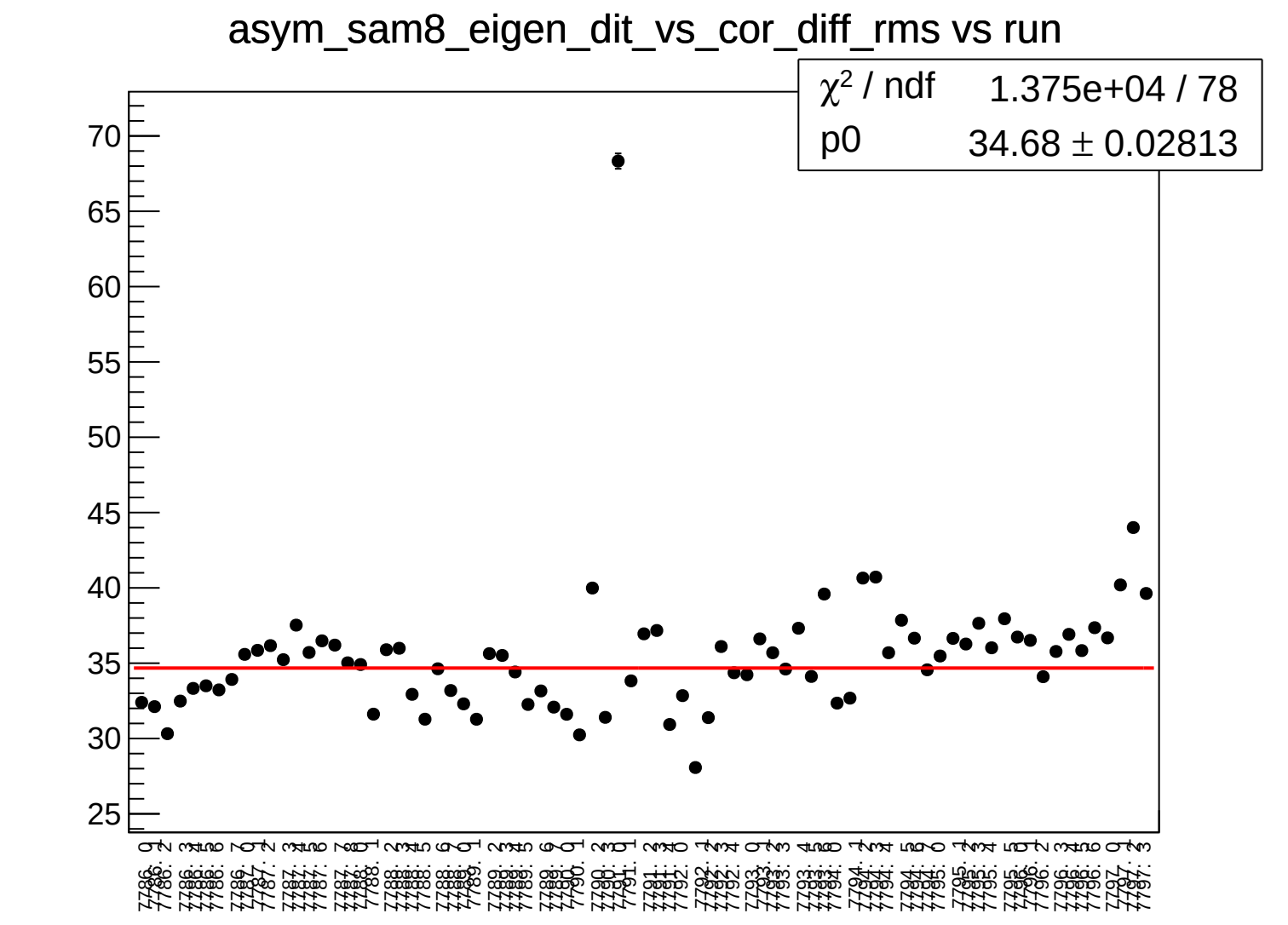

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.33 / 78
p0 5.529e−06 ± 3.06e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 79
Mean 218.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

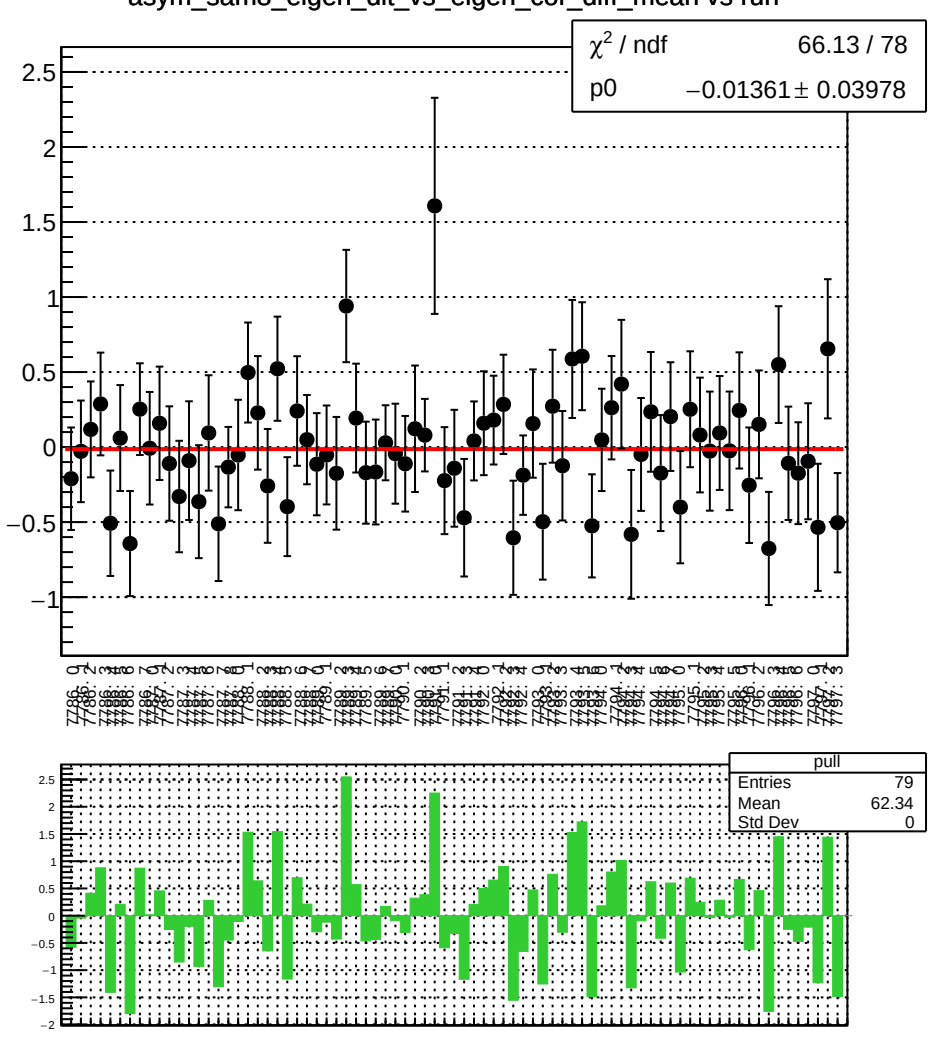

pull1D
Entries 79
Mean −0.006535
Std Dev 0.9765
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

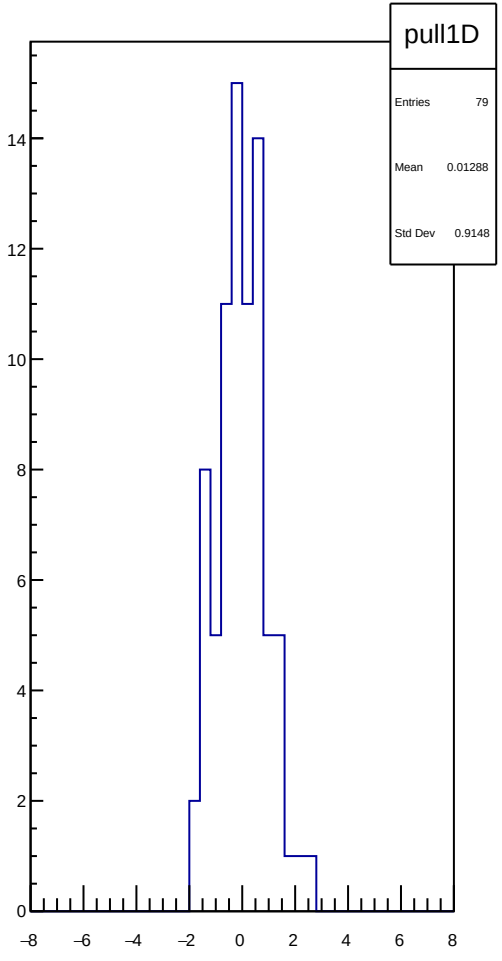

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 2822 / 78
p0 0.002677 ± 2.164e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

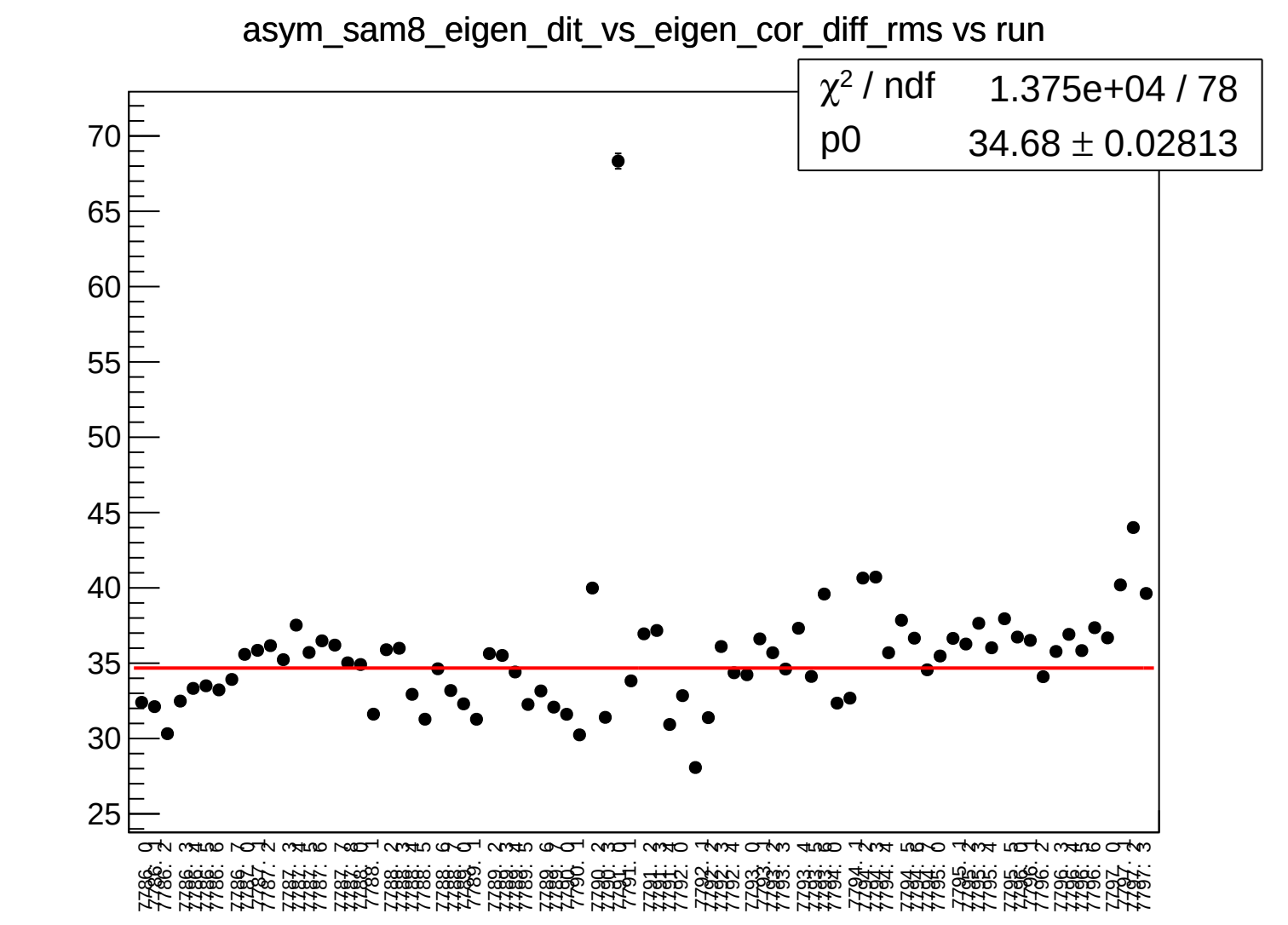

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.13 / 78
p0 −0.01361 ± 0.03978
pull
Entries 79
Mean 62.34
Std Dev 0

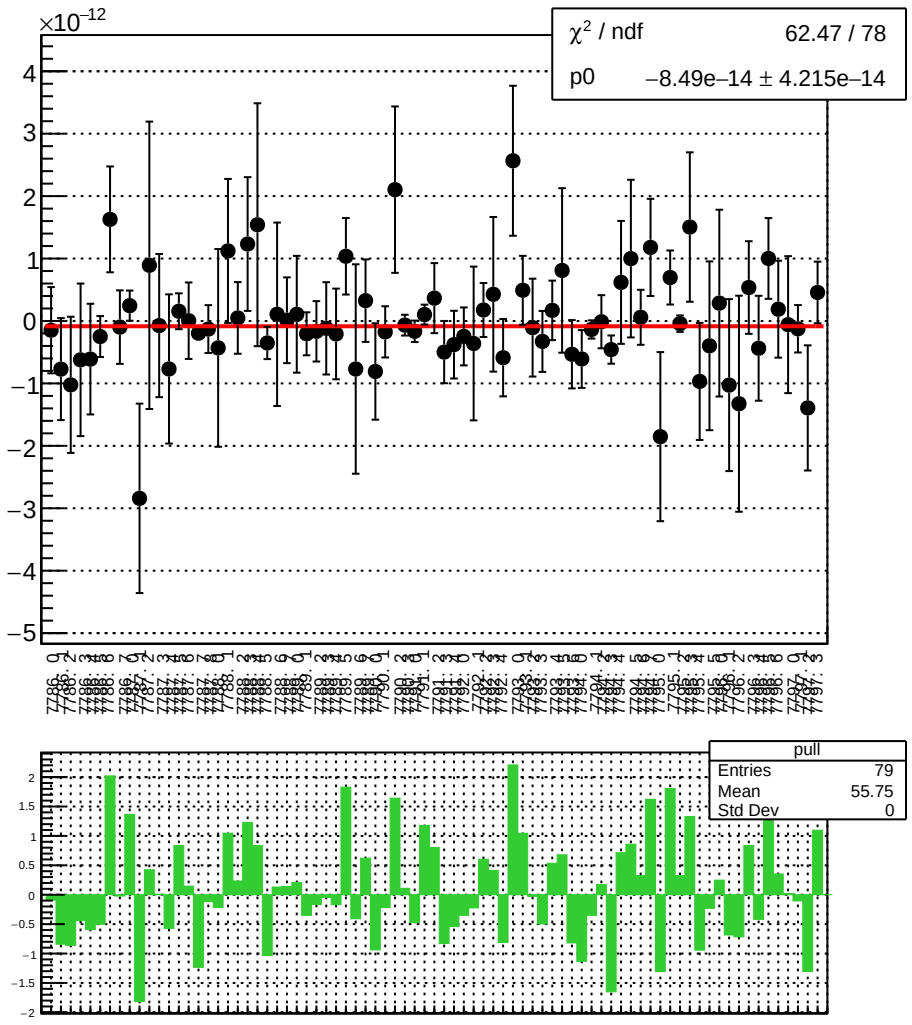

pull1D
Entries 79
Mean 0.01288
Std Dev 0.9148

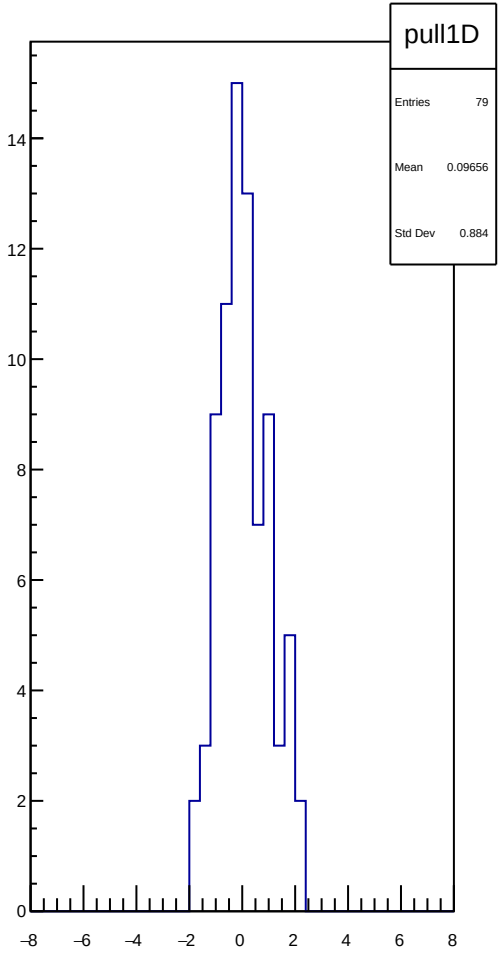

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.375e+04 / 78
p0 34.68 ± 0.02813
70
65
60
55
50
45
40
35
30
25

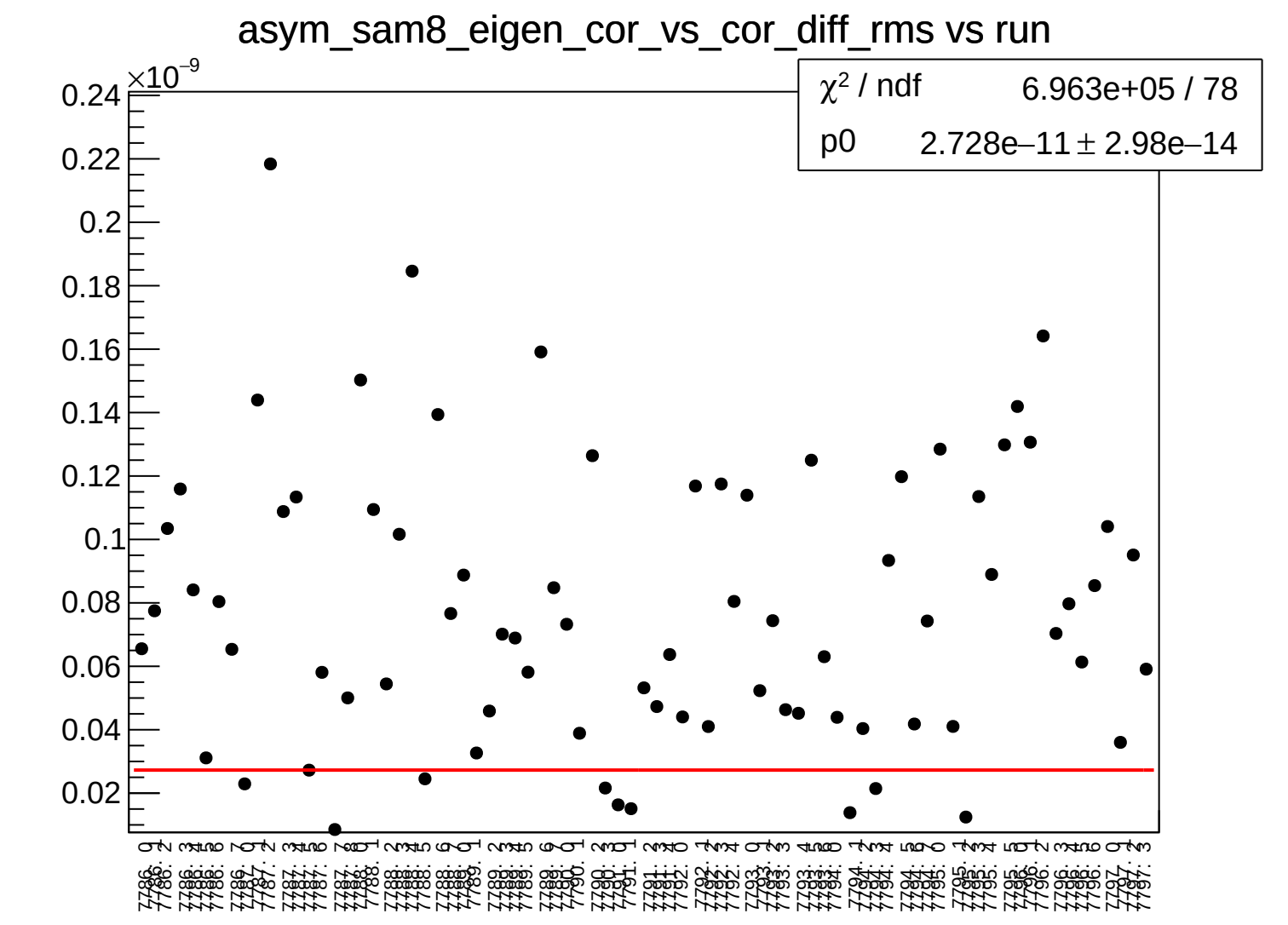

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.13 / 78
p0 −0.01361 ± 0.03978
pull
Entries 79
Mean 62.34
Std Dev 0

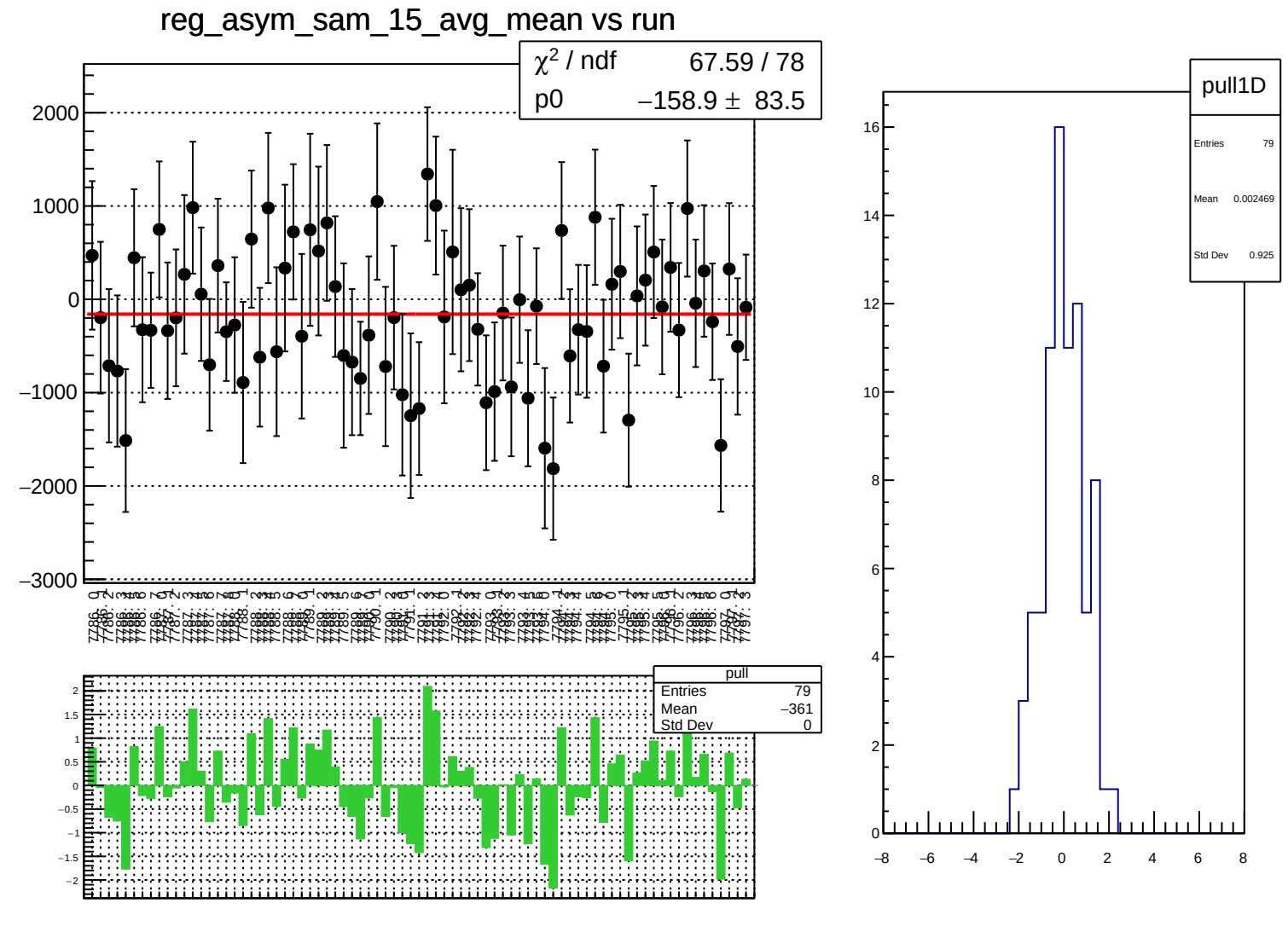

pull1D
Entries 79
Mean 0.01288
Std Dev 0.9148

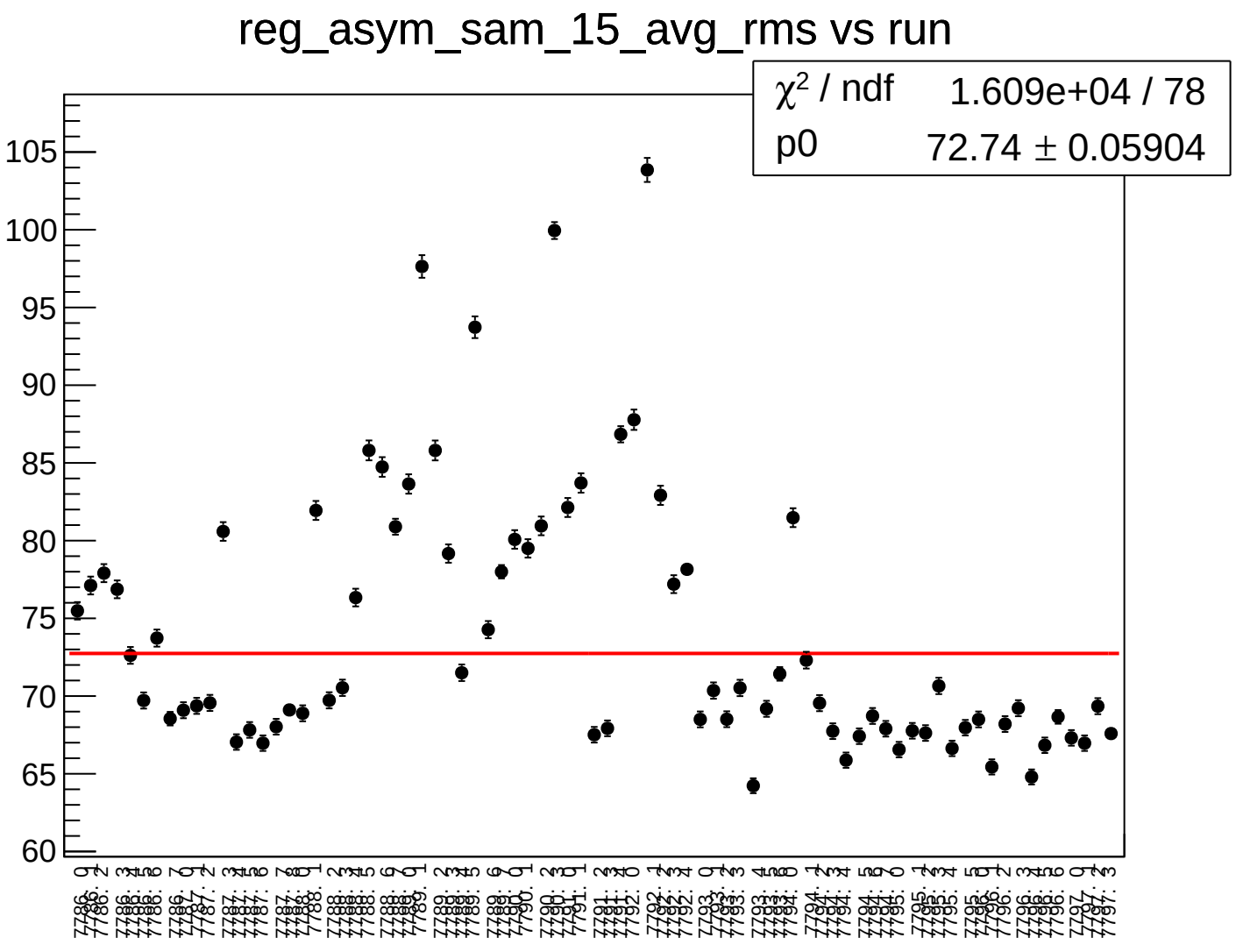

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.375e+04 / 78
p0 34.68 ± 0.02813
70
65
60
55
50
45
40
35
30
25

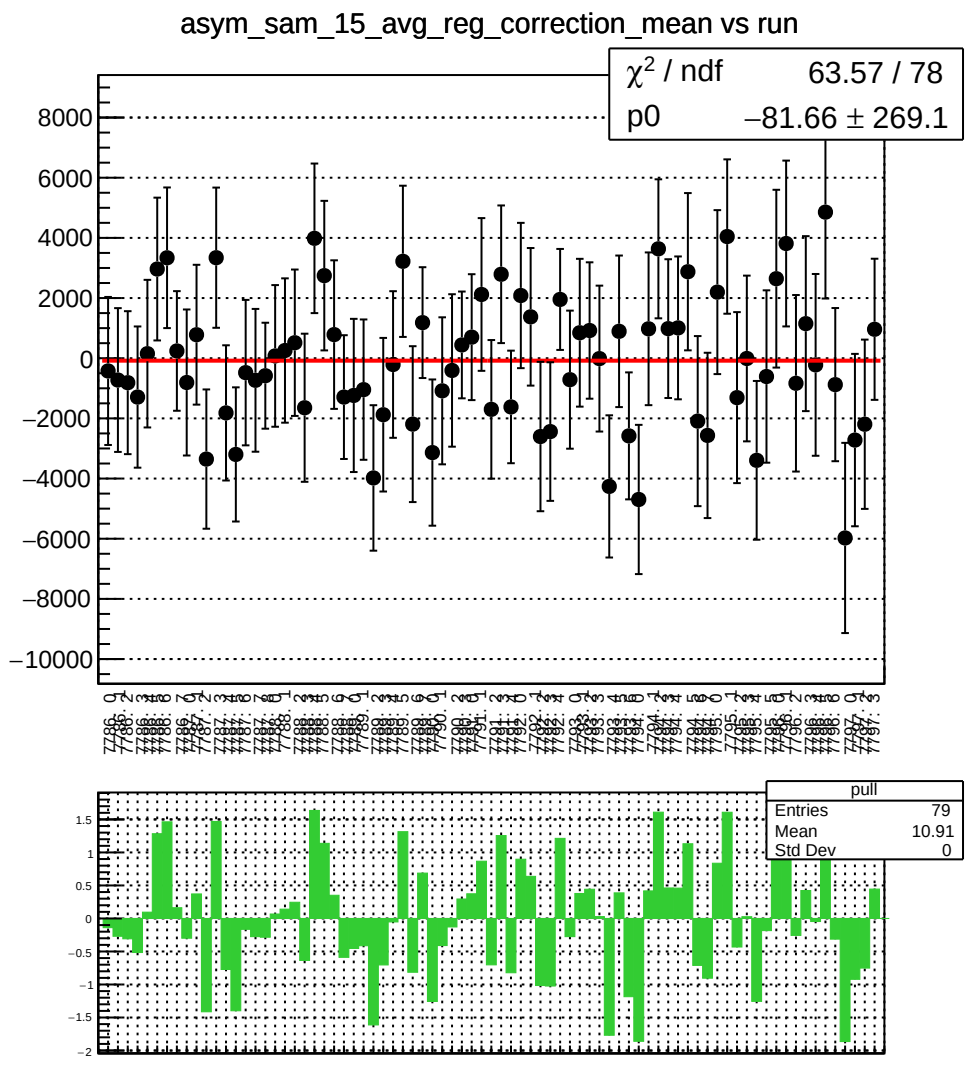

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.47 / 78
p0 −8.49e−14 ± 4.215e−14
pull
Entries 79
Mean 55.75
Std Dev 0

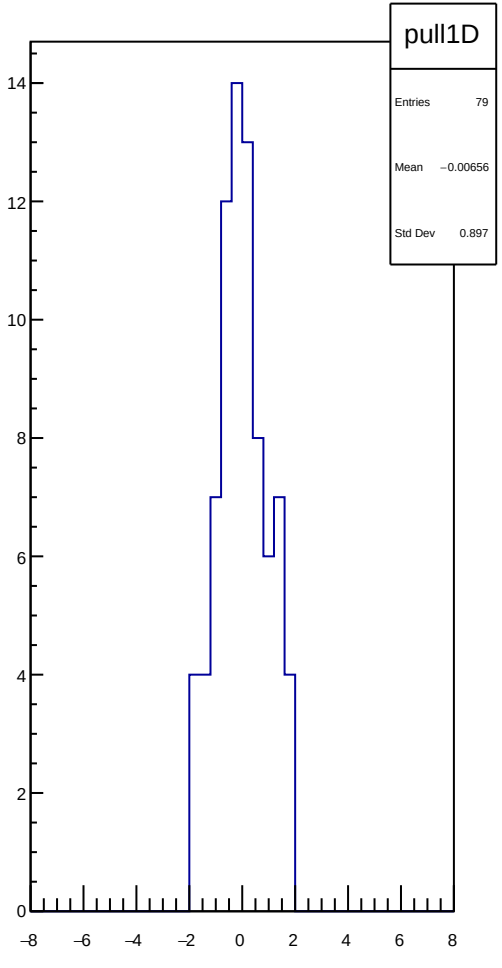

pull1D
Entries 79
Mean 0.09656
Std Dev 0.884

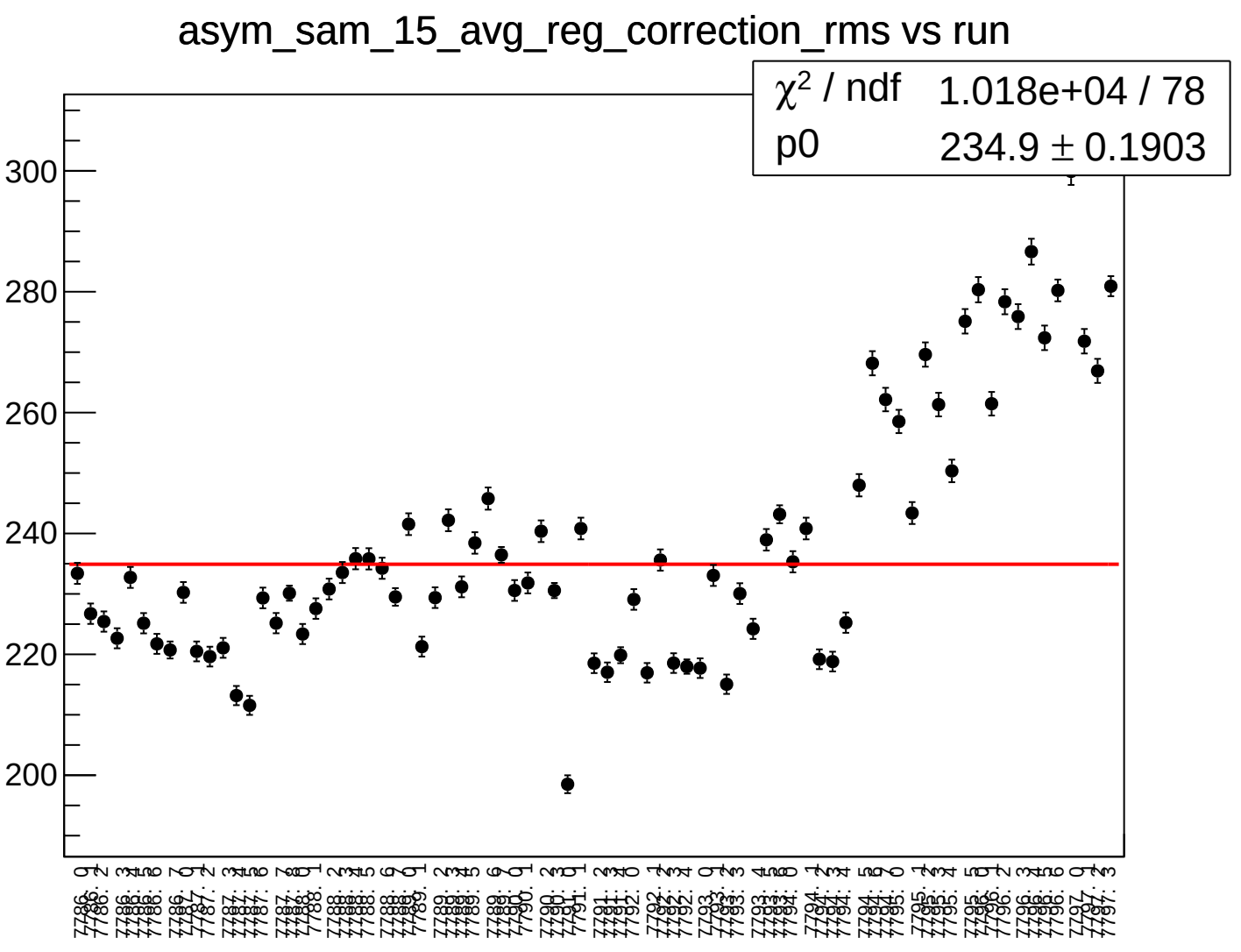

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 6.963e+05 / 78
p0 2.728e−11 ± 2.98e−14

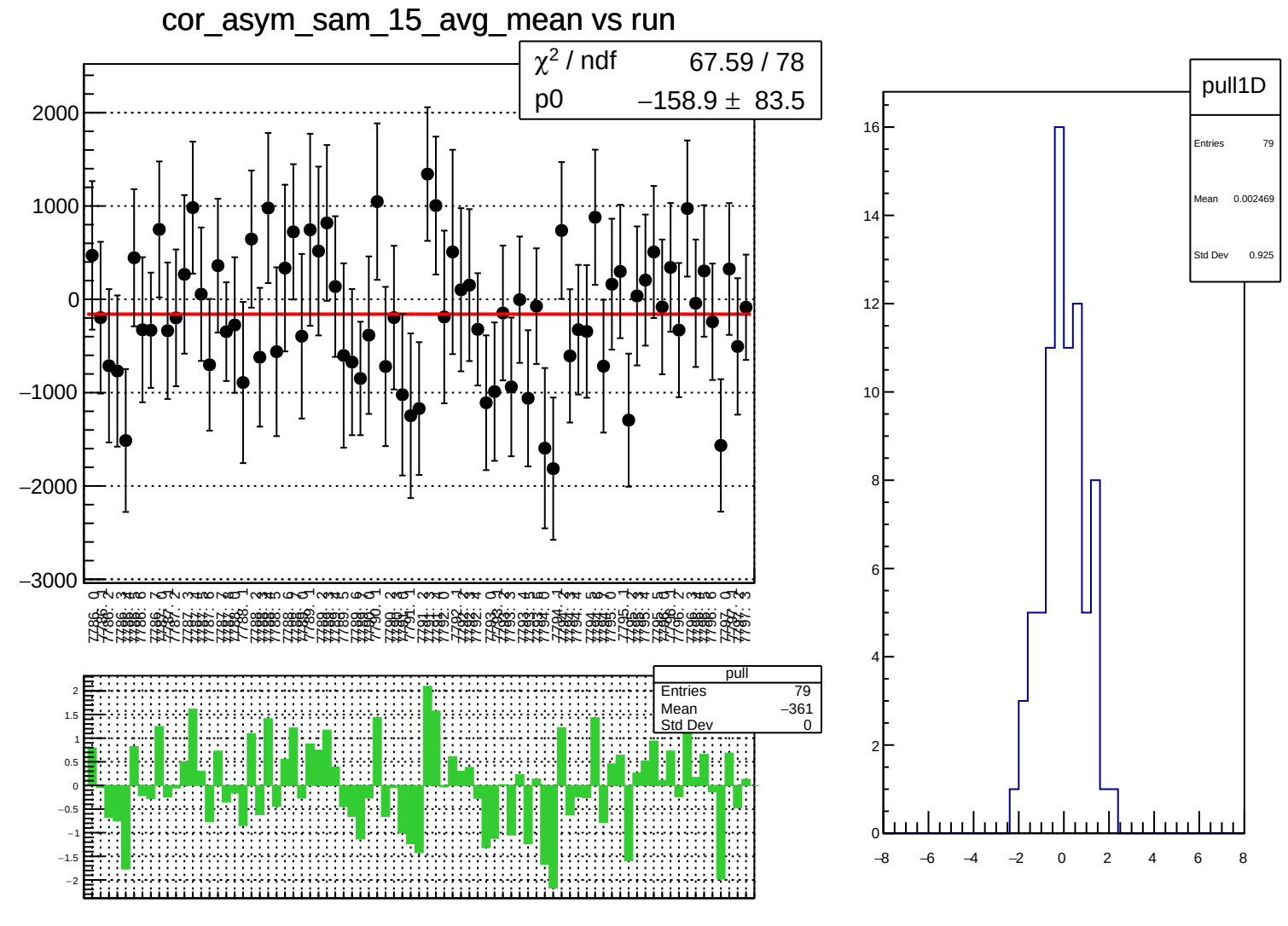

reg_asym_sam_15_avg_mean vs run
χ² / ndf 67.59 / 78
p0 −158.9 ± 83.5
pull
Entries 79
Mean −361
Std Dev 0
pull1D
Entries 79
Mean 0.002469
Std Dev 0.925

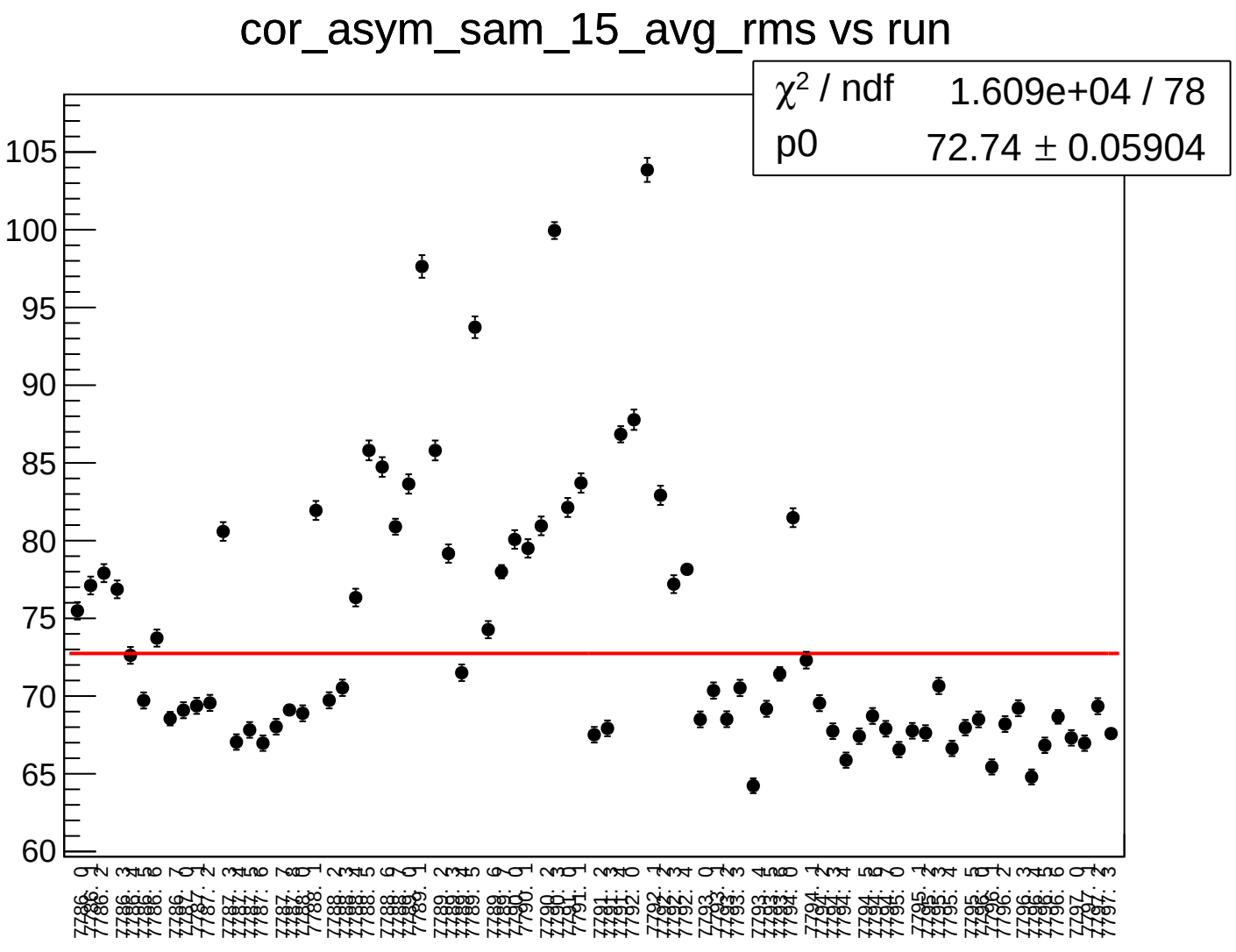

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.609e+04 / 78
p0 72.74 ± 0.05904
105
100
95
90
85
80
75
70
65
60

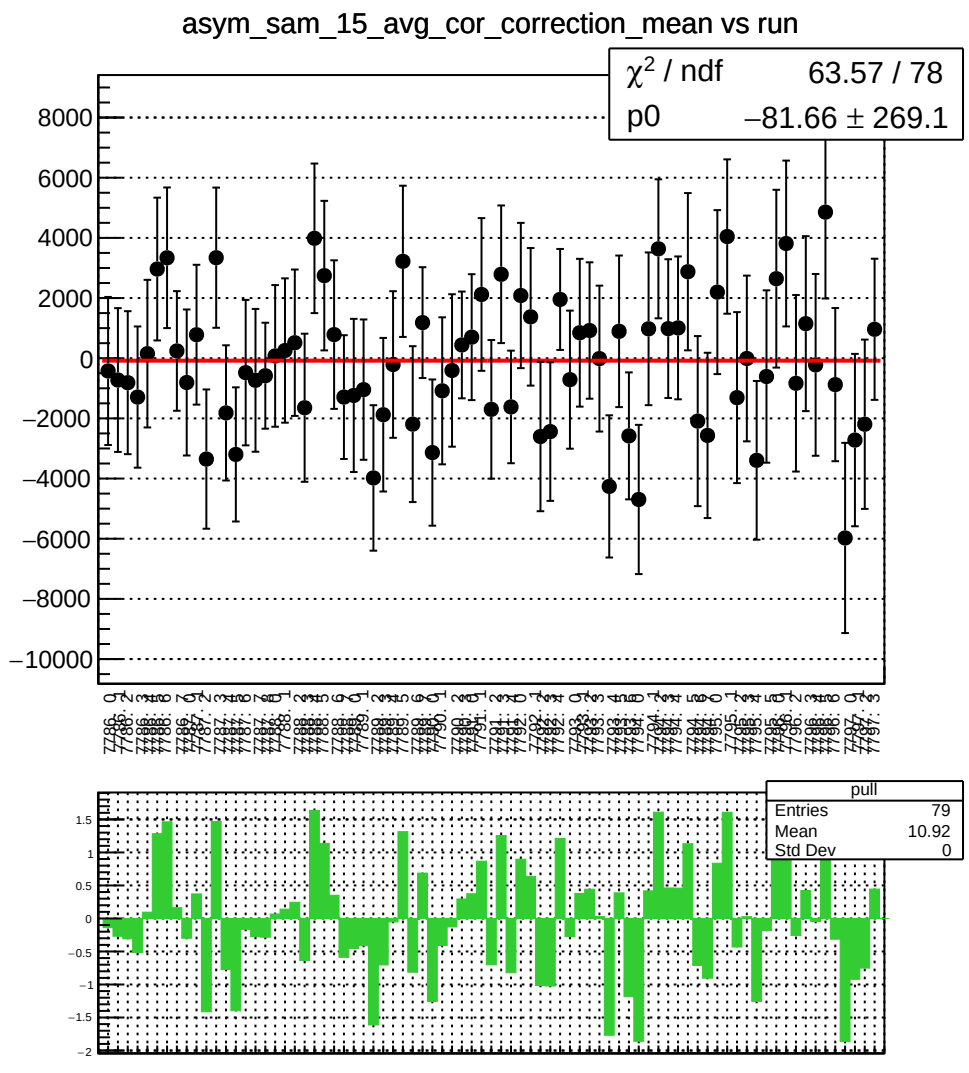

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 63.57 / 78
p0 −81.66 ± 269.1
pull
Entries 79
Mean 10.91
Std Dev 0

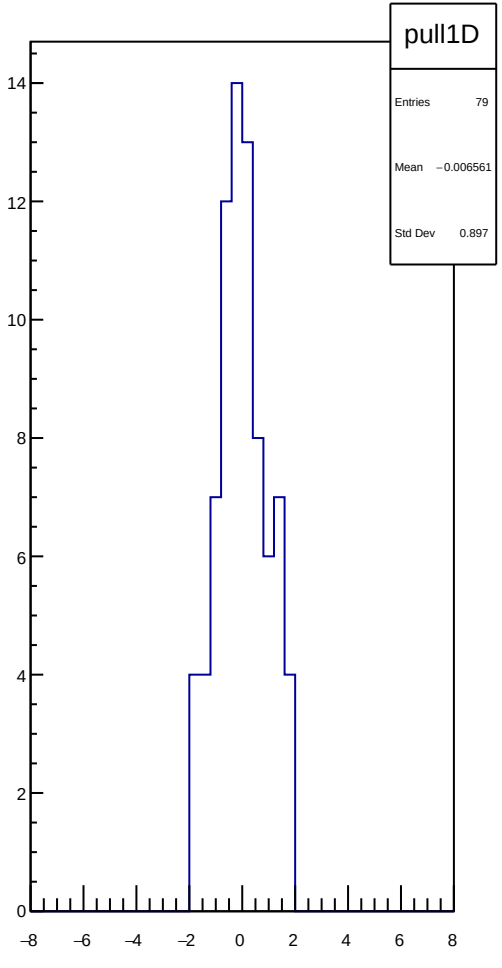

pull1D
Entries 79
Mean −0.00656
Std Dev 0.897

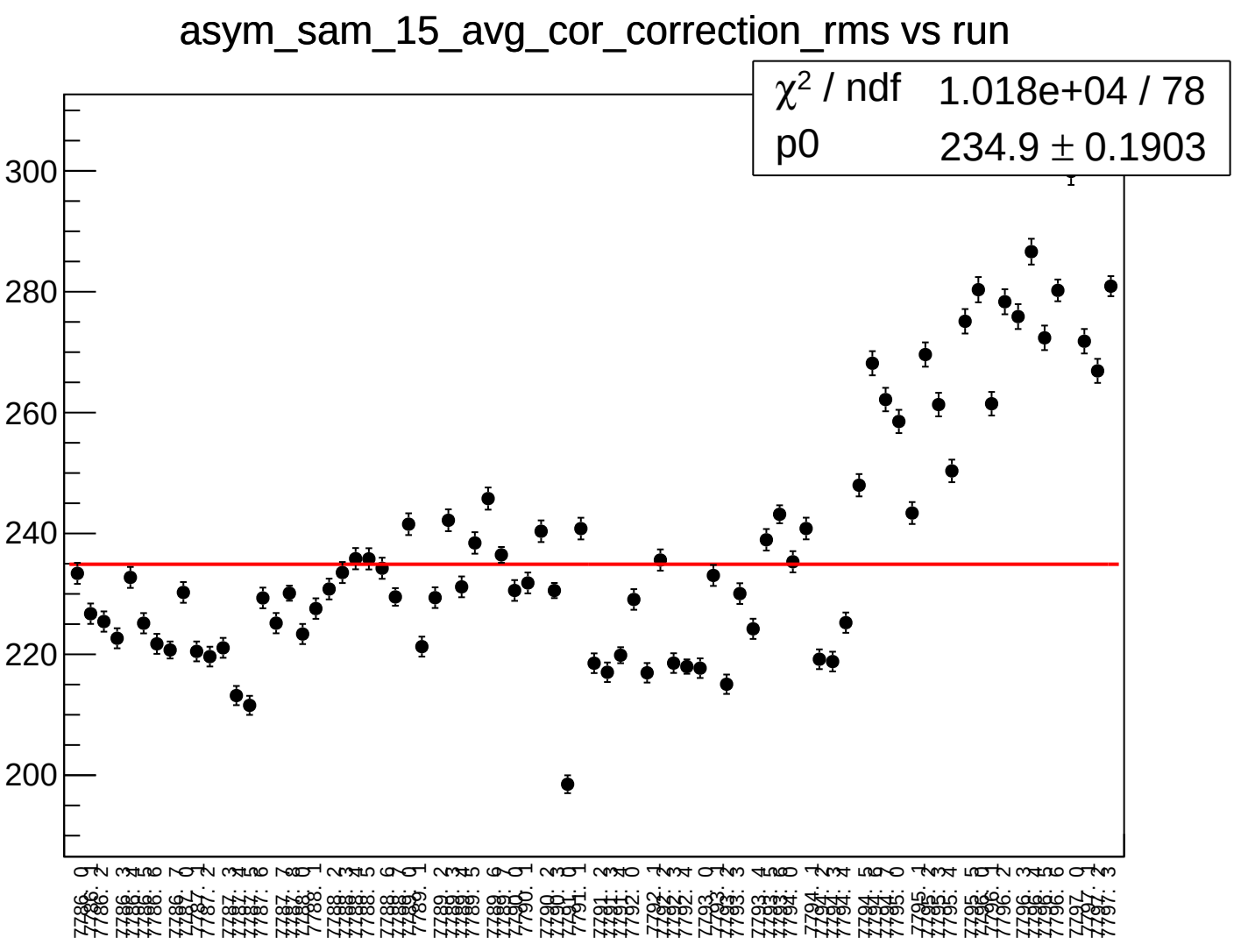

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.018e+04 / 78
p0 234.9 ± 0.1903
300
280
260
240
220
200

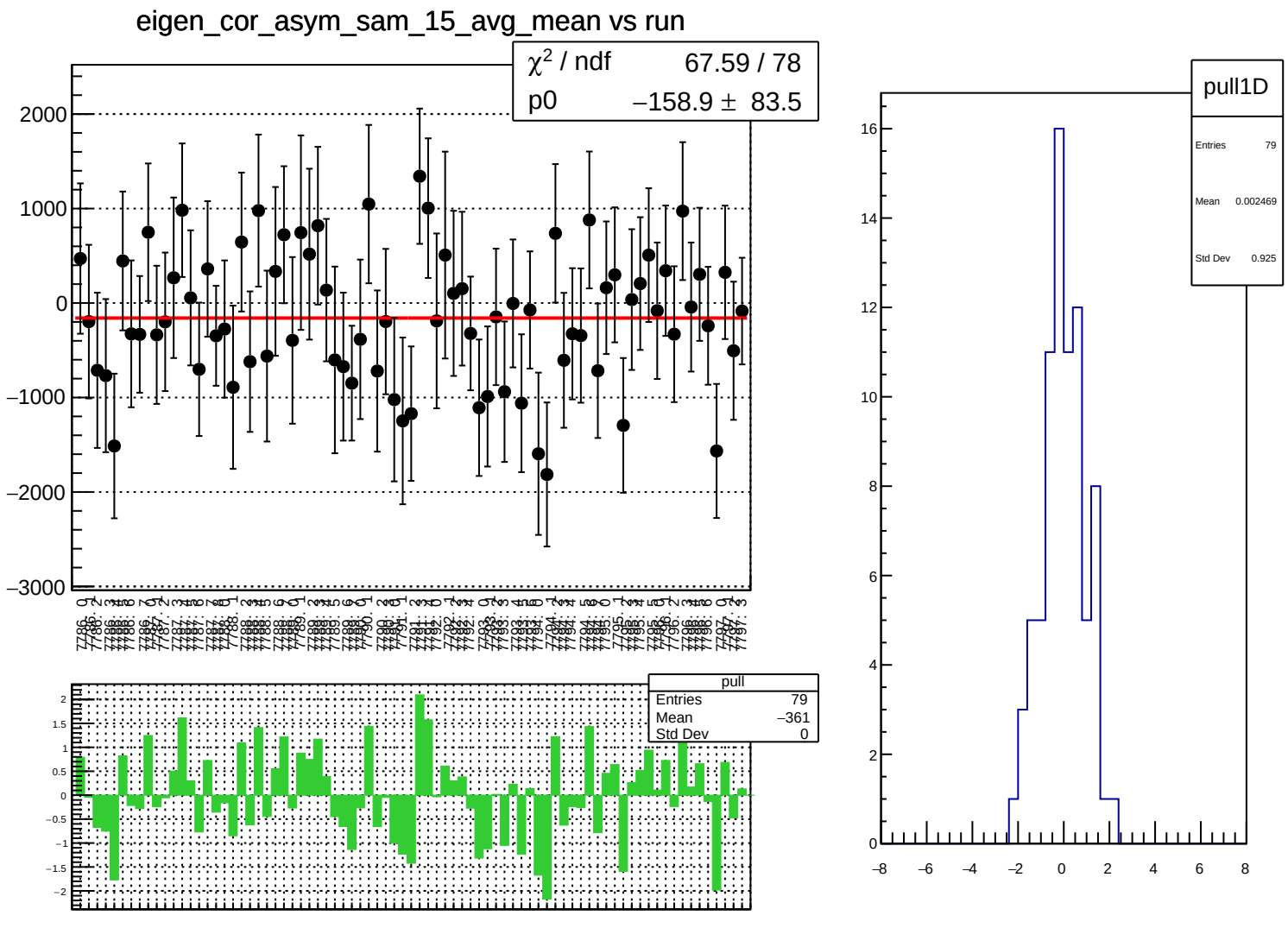

cor_asym_sam_15_avg_mean vs run
χ² / ndf 67.59 / 78
p0 −158.9 ± 83.5
pull
Entries 79
Mean −361
Std Dev 0
pull1D
Entries 79
Mean 0.002469
Std Dev 0.925

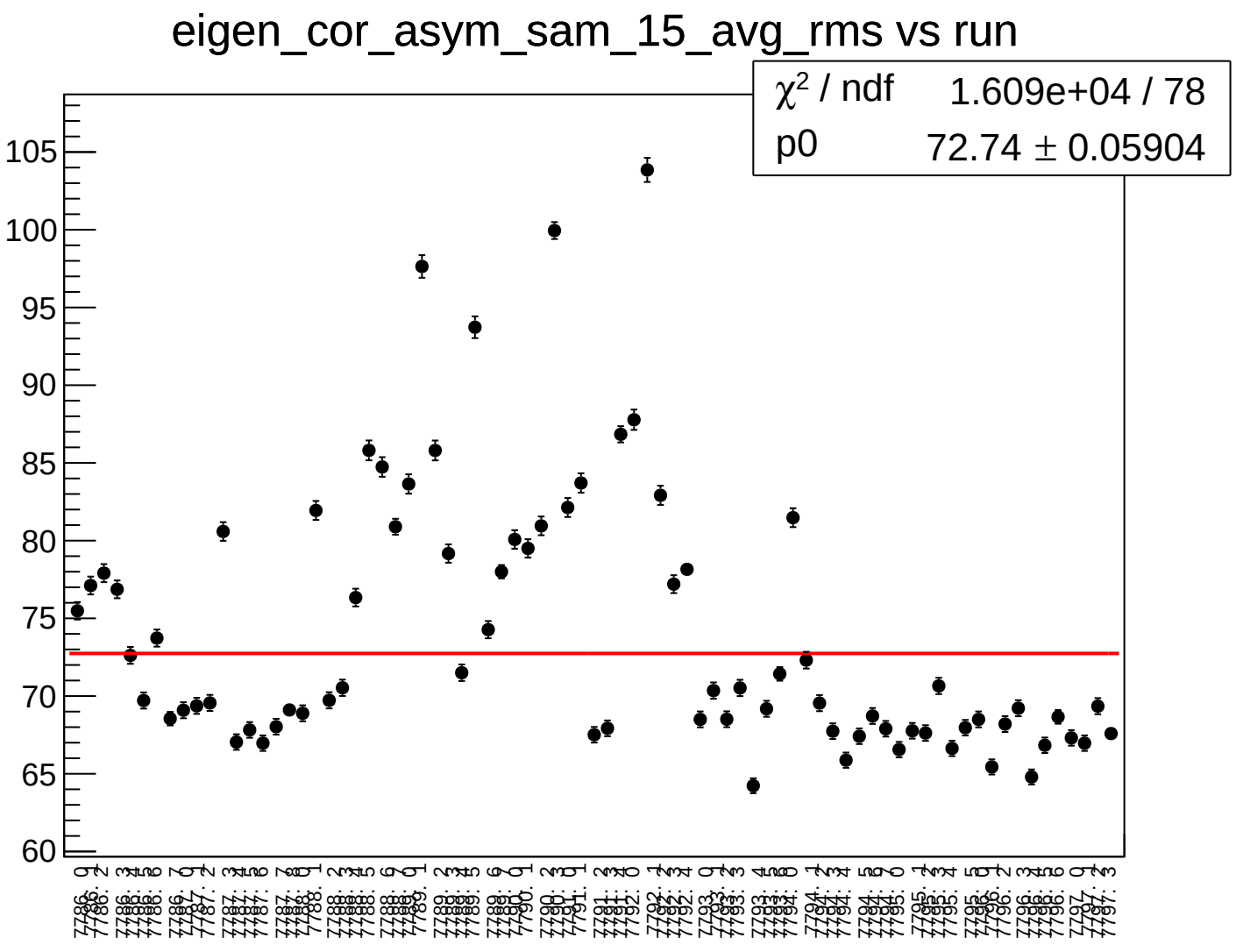

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.609e+04 / 78
p0 72.74 ± 0.05904
105
100
95
90
85
80
75
70
65
60

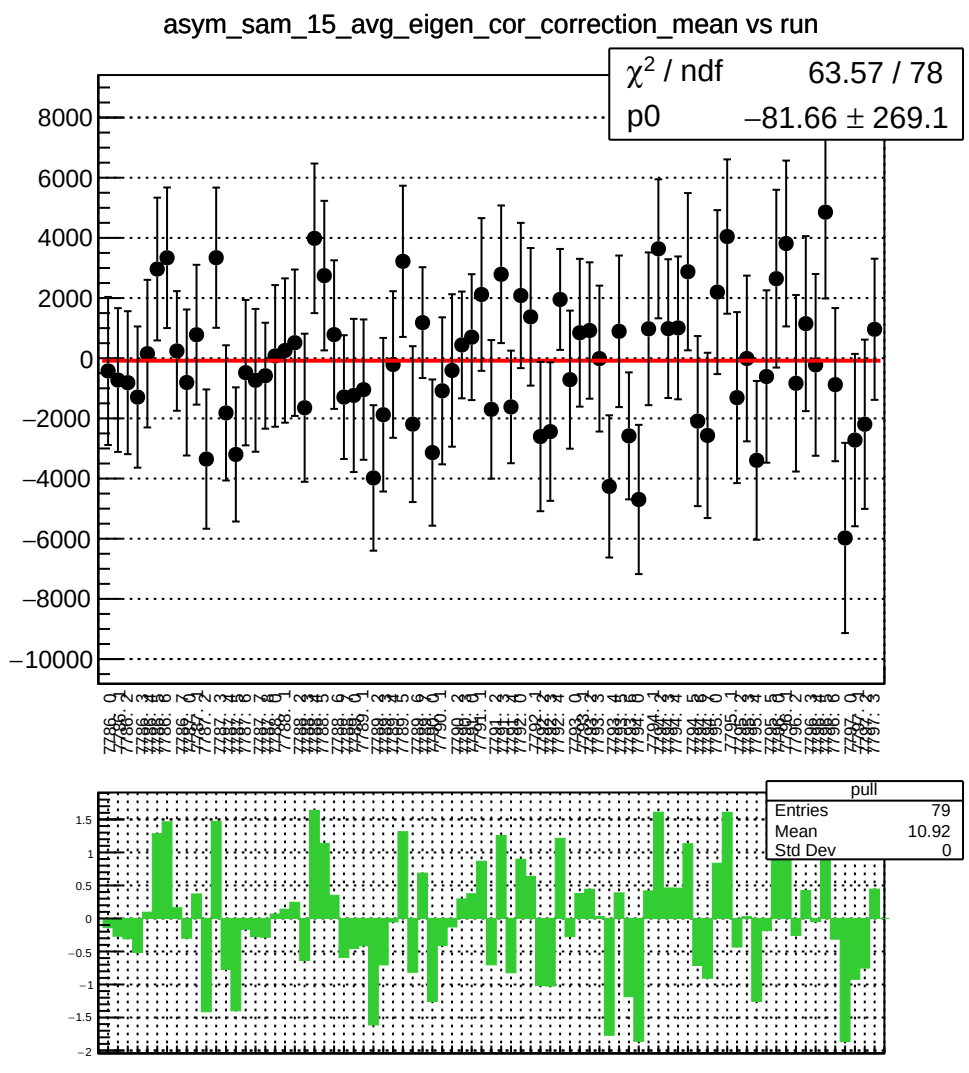

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 63.57 / 78
p0 −81.66 ± 269.1
pull
Entries 79
Mean 10.92
Std Dev 0

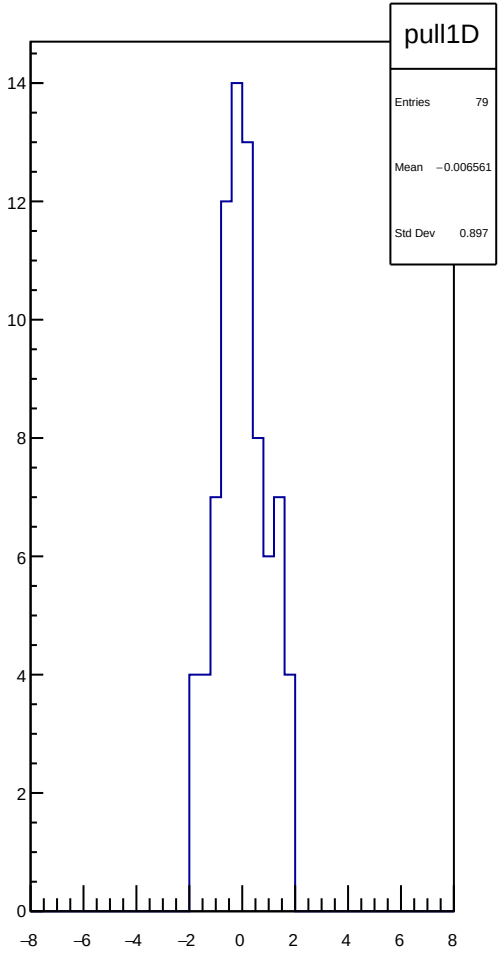

pull1D
Entries 79
Mean −0.006561
Std Dev 0.897

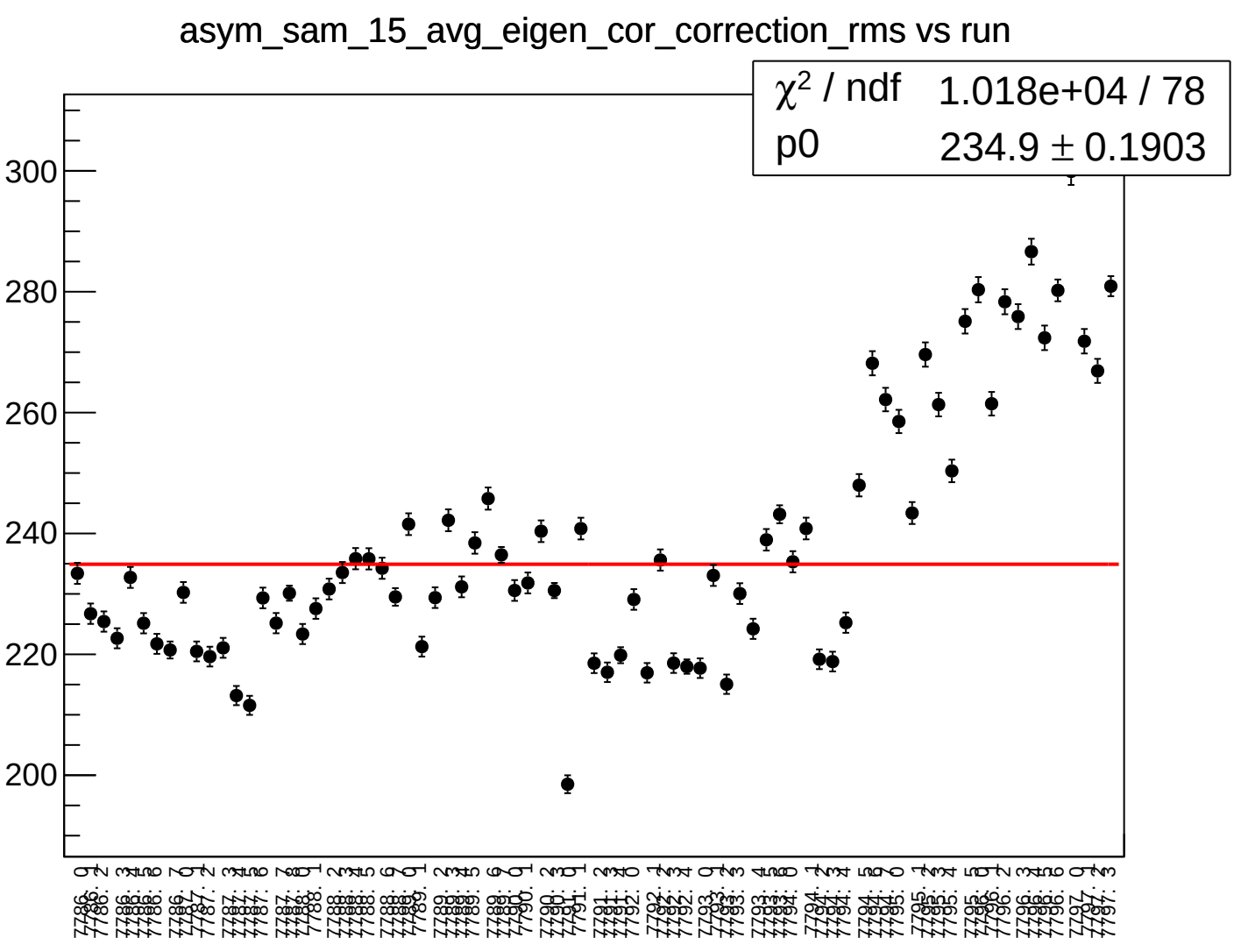

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.018e+04 / 78
p0 234.9 ± 0.1903
300
280
260
240
220
200

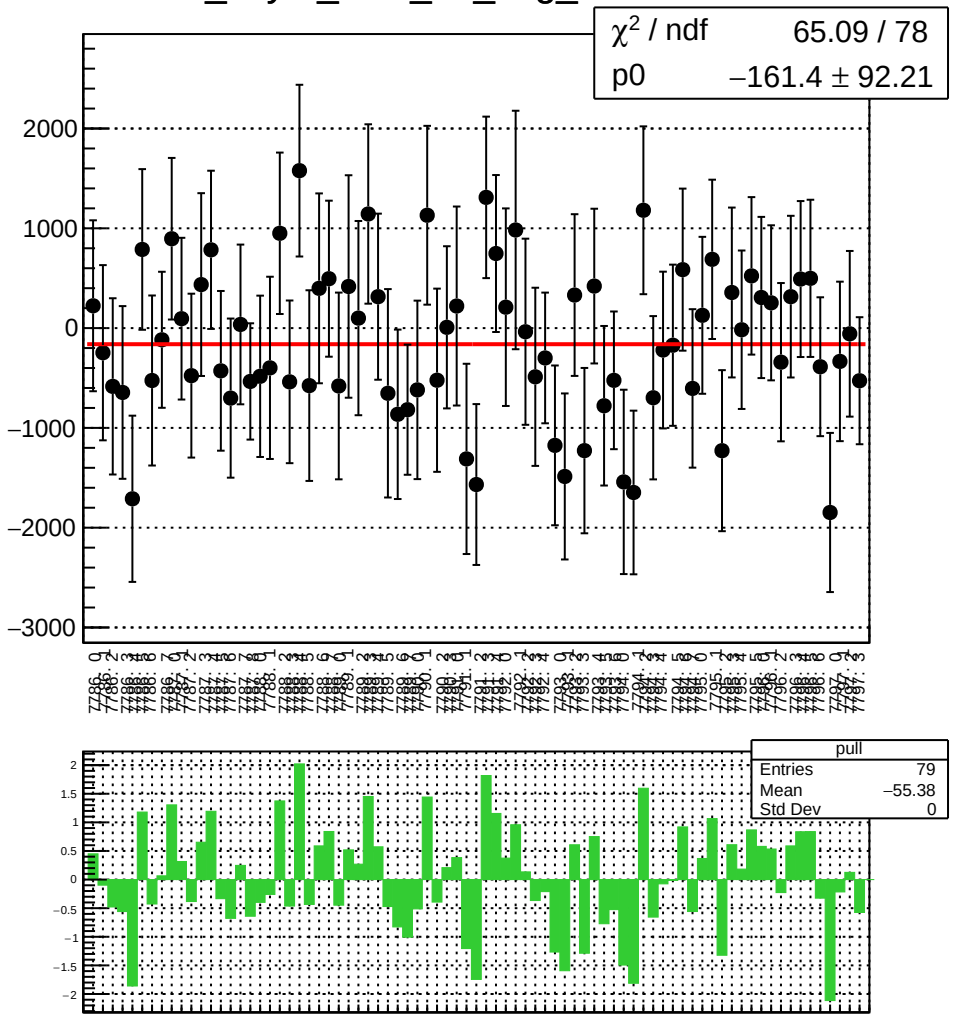

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 67.59 / 78
p0 −158.9 ± 83.5
pull
Entries 79
Mean −361
Std Dev 0
pull1D
Entries 79
Mean 0.002469
Std Dev 0.925

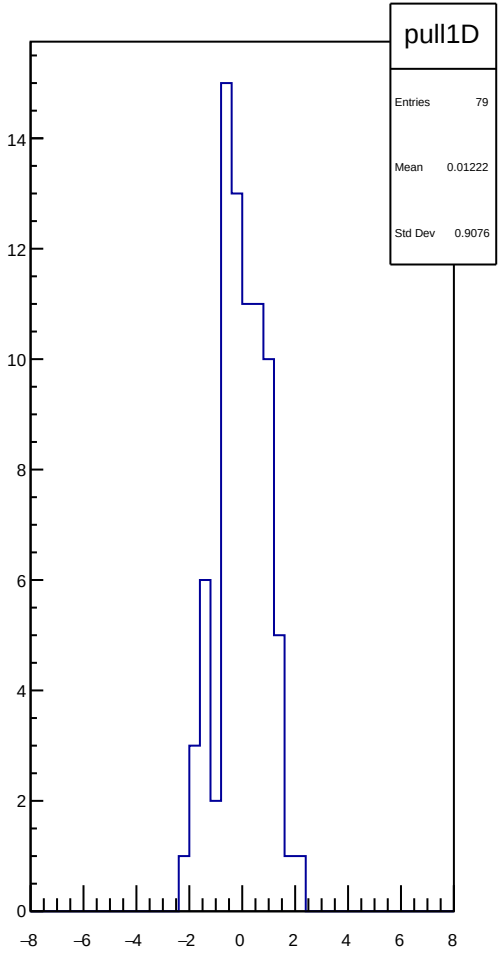

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.609e+04 / 78
p0 72.74 ± 0.05904
105
100
95
90
85
80
75
70
65
60

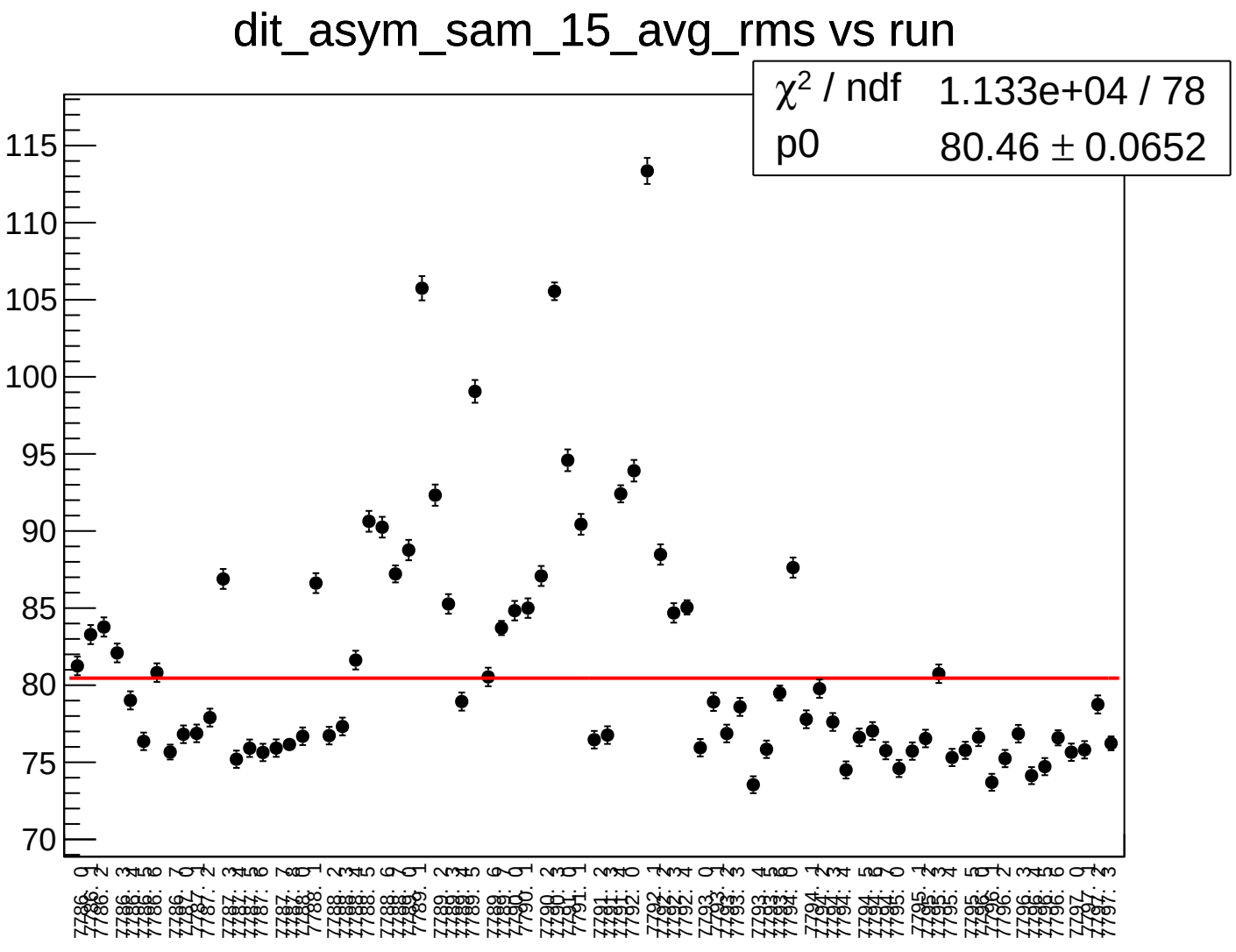

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 63.57 / 78
p0 −81.66 ± 269.1
pull
Entries 79
Mean 10.92
Std Dev 0

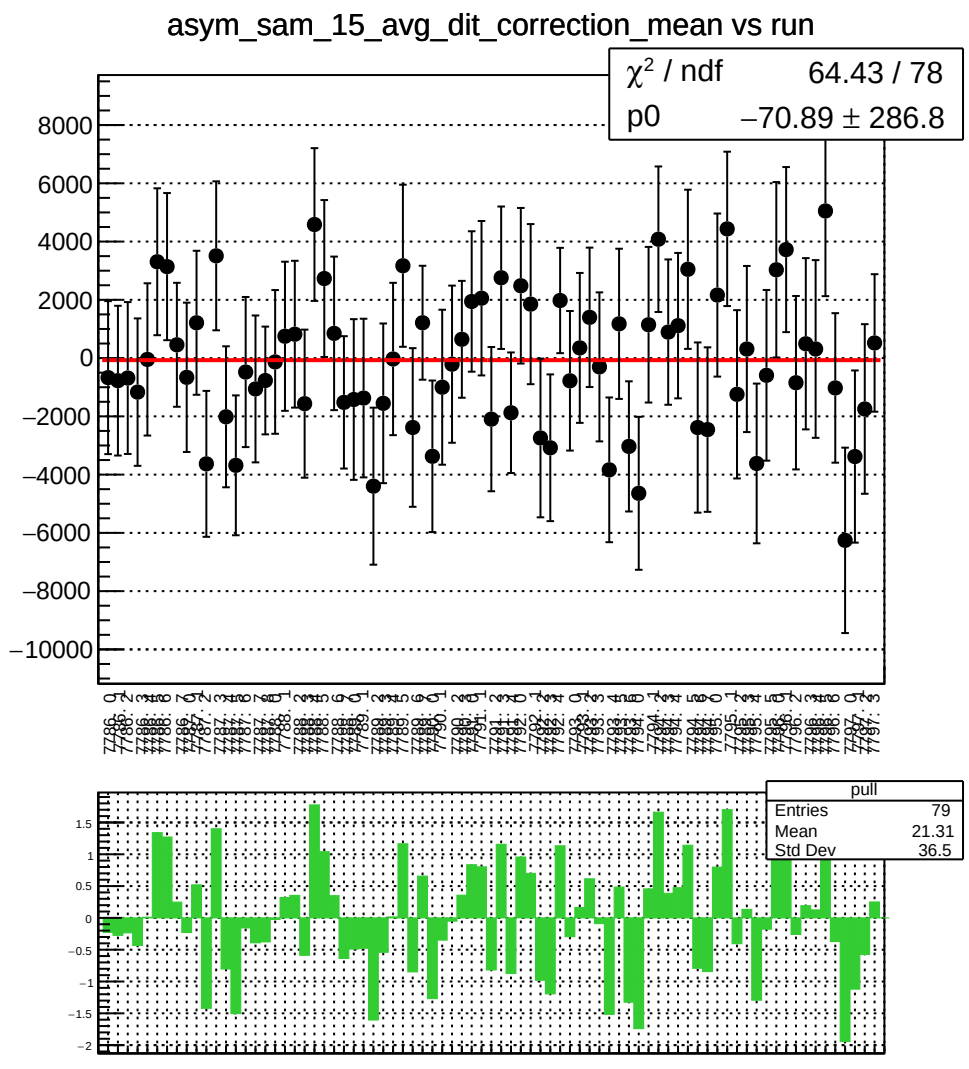

pull1D
Entries 79
Mean −0.006561
Std Dev 0.897

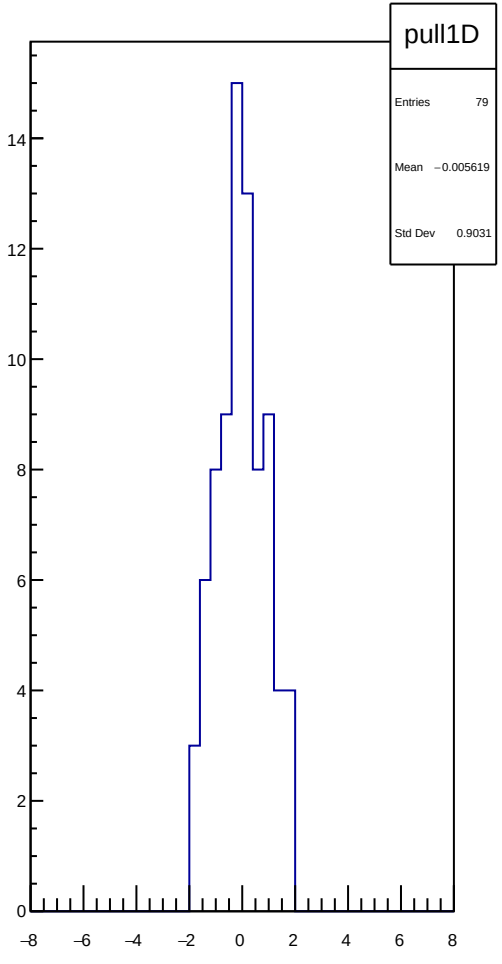

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.018e+04 / 78
p0 234.9 ± 0.1903
300
280
260
240
220
200

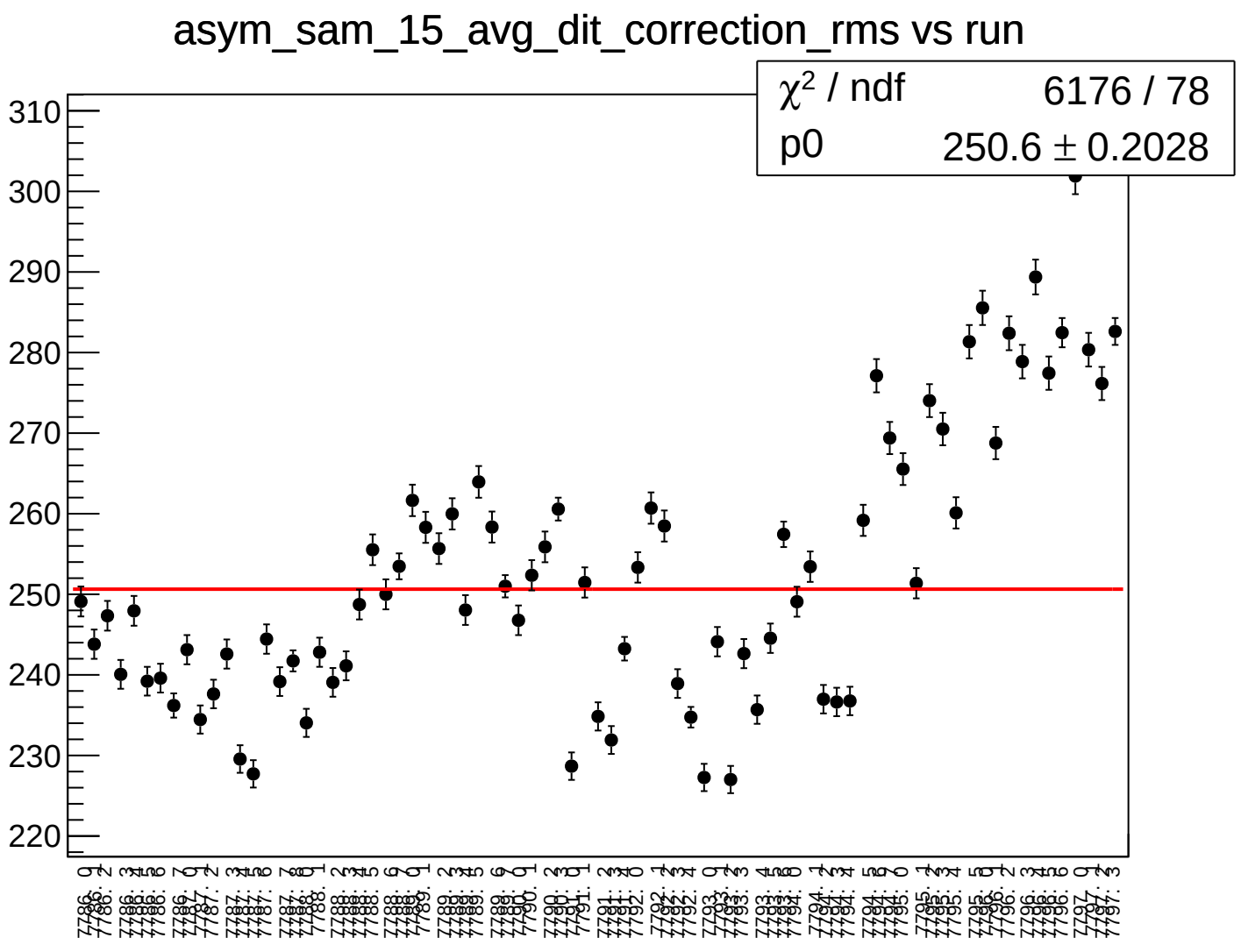

dit_asym_sam_15_avg_mean vs run
χ² / ndf 65.09 / 78
p0 −161.4 ± 92.21
pull
Entries 79
Mean −55.38
Std Dev 0

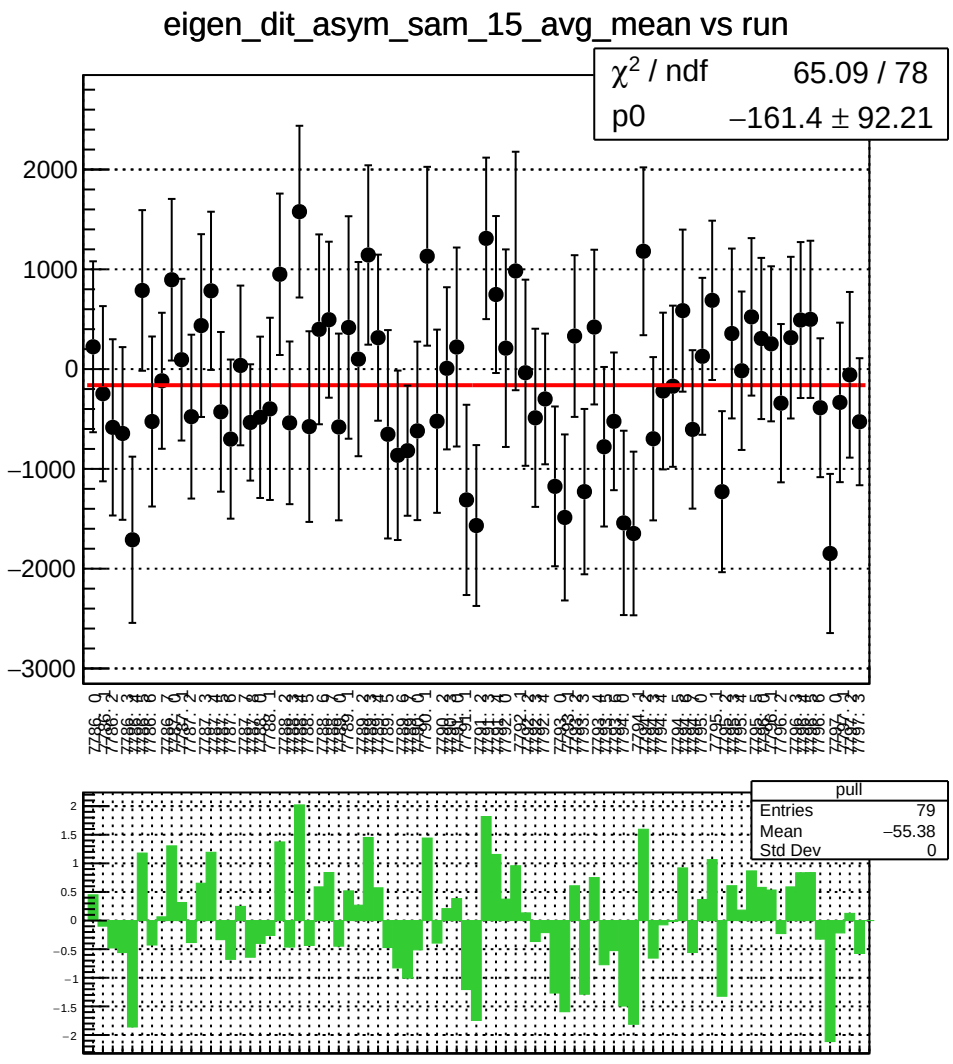

pull1D
Entries 79
Mean 0.01222
Std Dev 0.9076

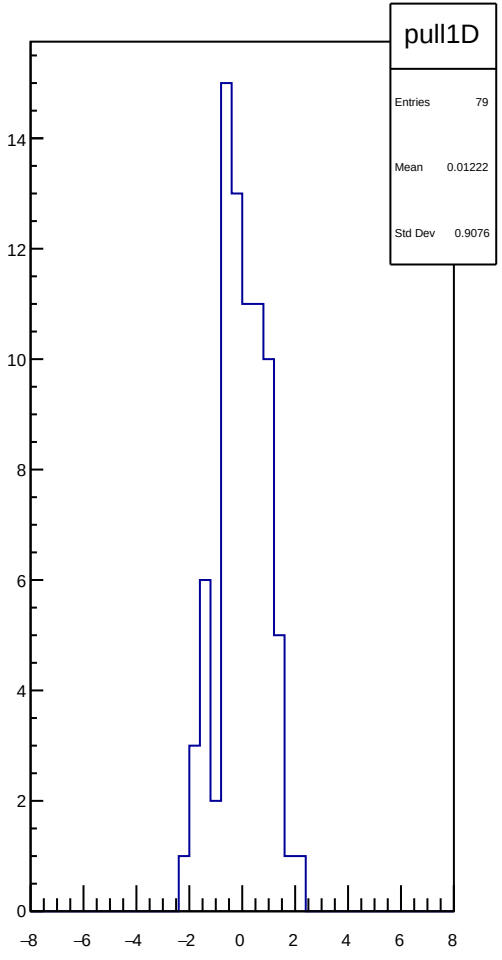

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.133e+04 / 78
p0 80.46 ± 0.0652
115
110
105
100
95
90
85
80
75
70

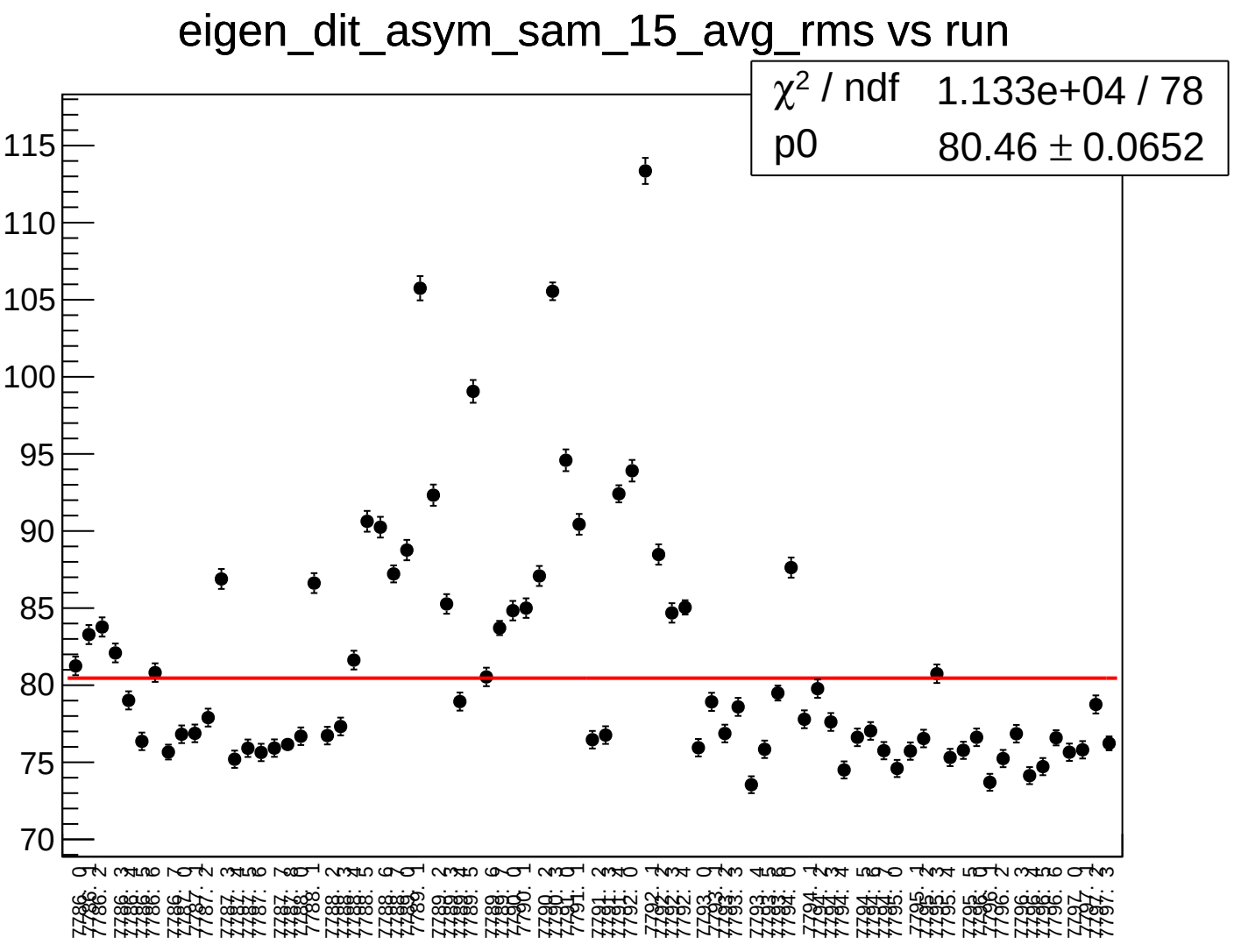

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 64.43 / 78
p0 −70.89 ± 286.8
pull
Entries 79
Mean 21.31
Std Dev 36.5

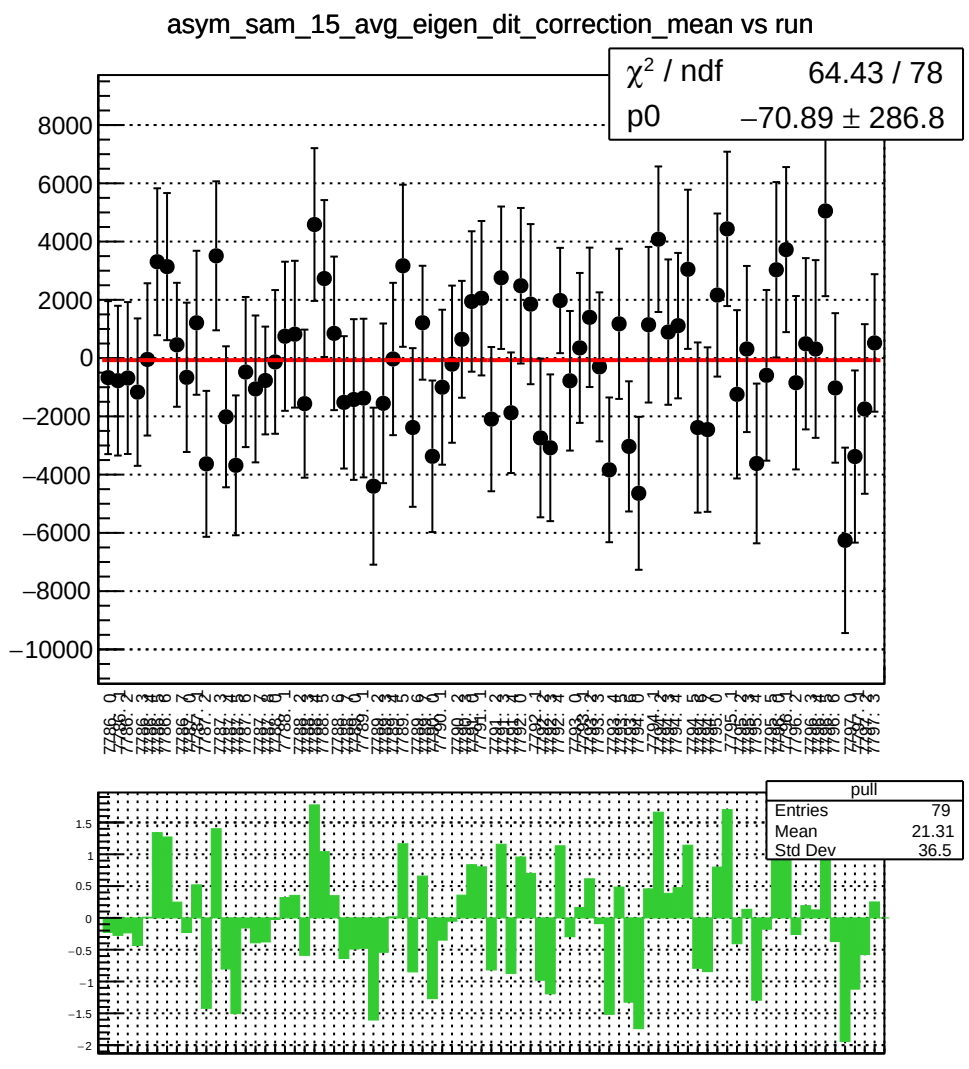

pull1D
Entries 79
Mean −0.005619
Std Dev 0.9031

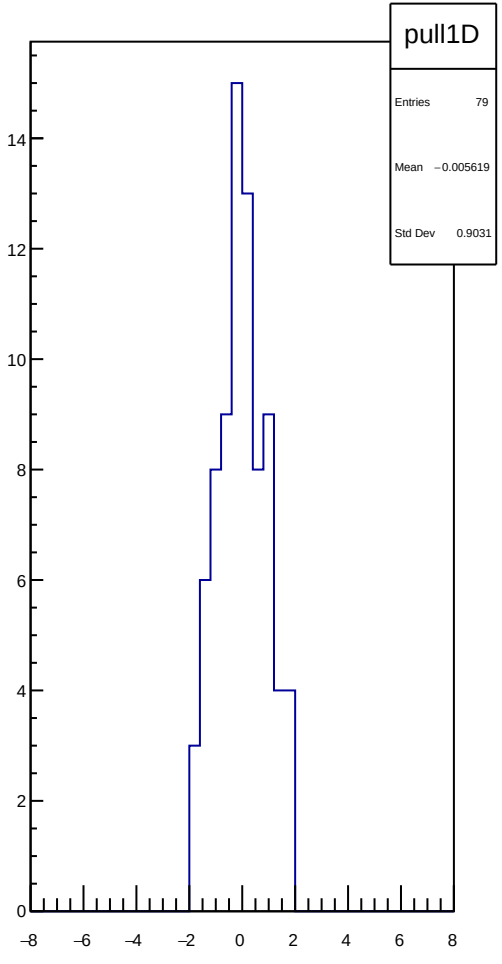

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 6176 / 78
p0 250.6 ± 0.2028
310
300
290
280
270
260
250
240
230
220

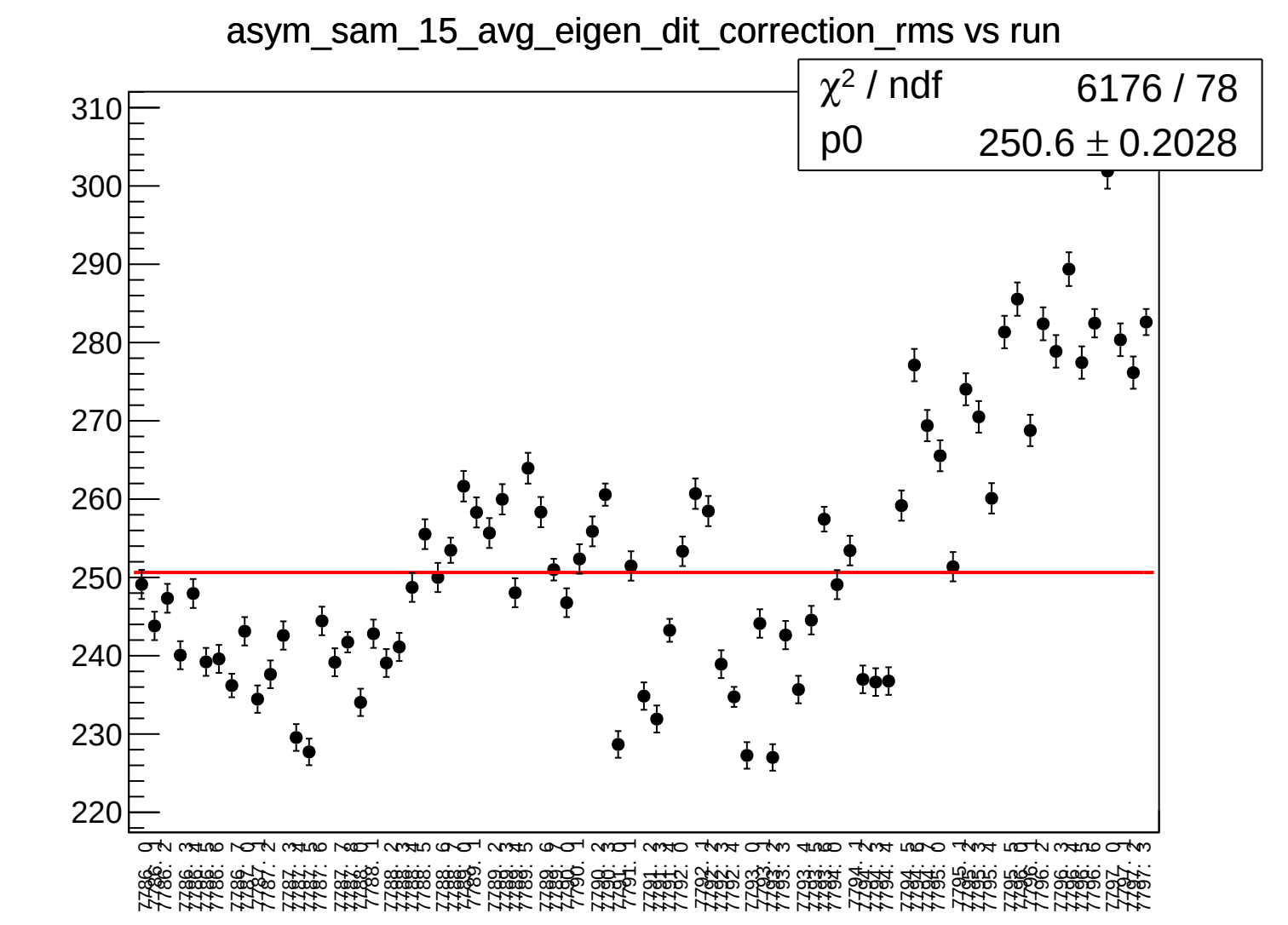

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 65.09 / 78
p0 −161.4 ± 92.21
pull
Entries 79
Mean −55.38
Std Dev 0

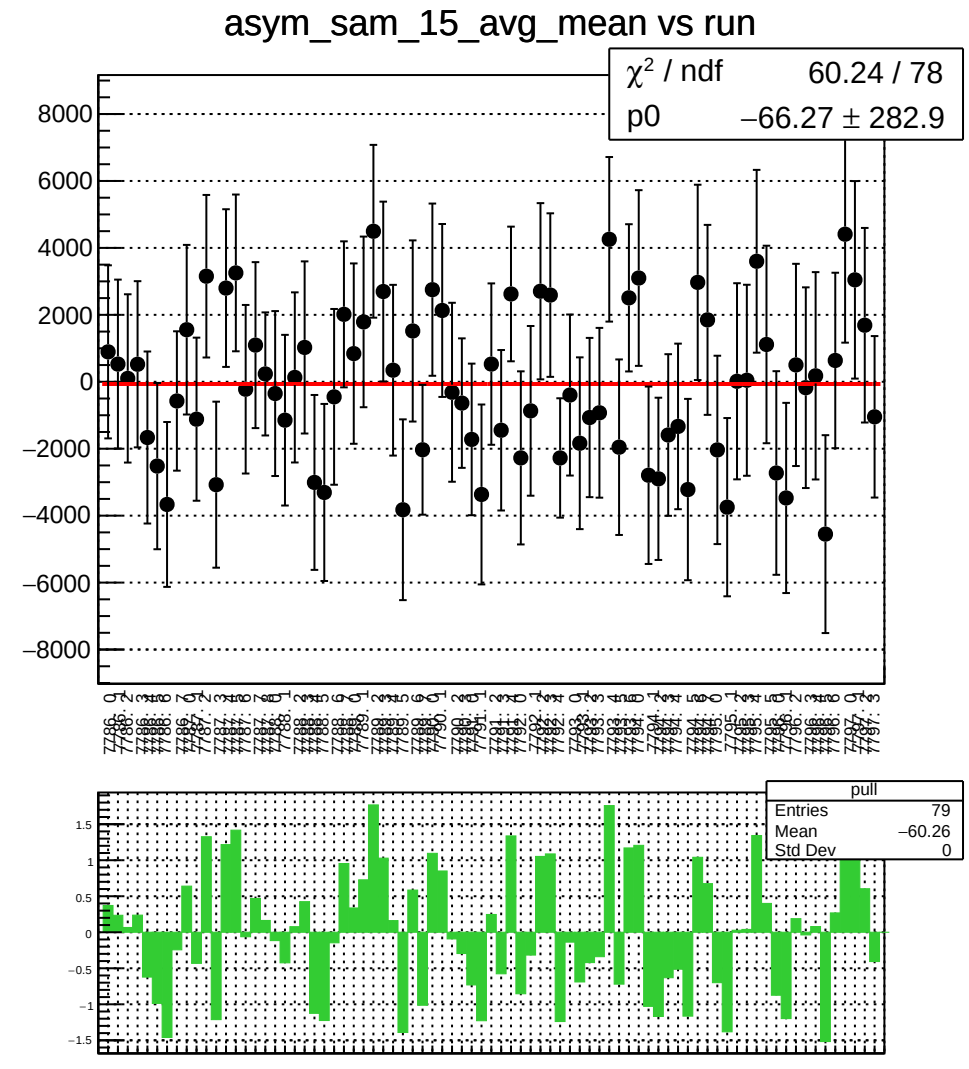

pull1D
Entries 79
Mean 0.01222
Std Dev 0.9076

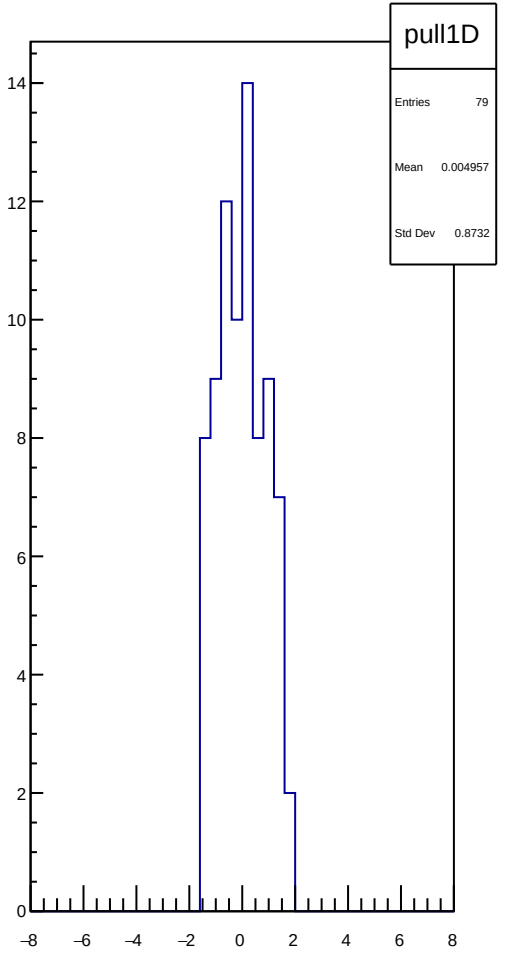

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.133e+04 / 78
p0 80.46 ± 0.0652
115
110
105
100
95
90
85
80
75
70

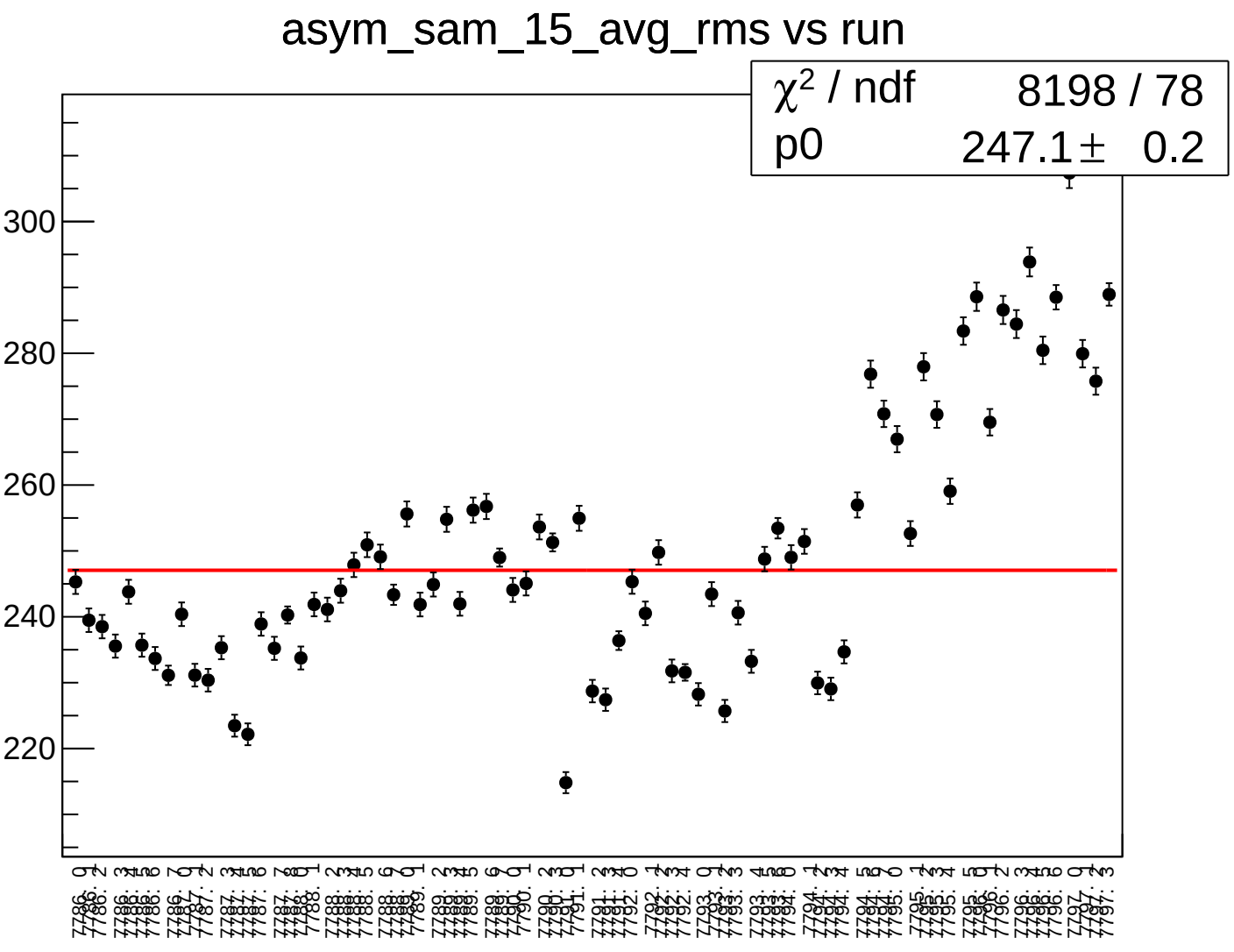

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 64.43 / 78
p0 −70.89 ± 286.8
pull
Entries 79
Mean 21.31
Std Dev 36.5

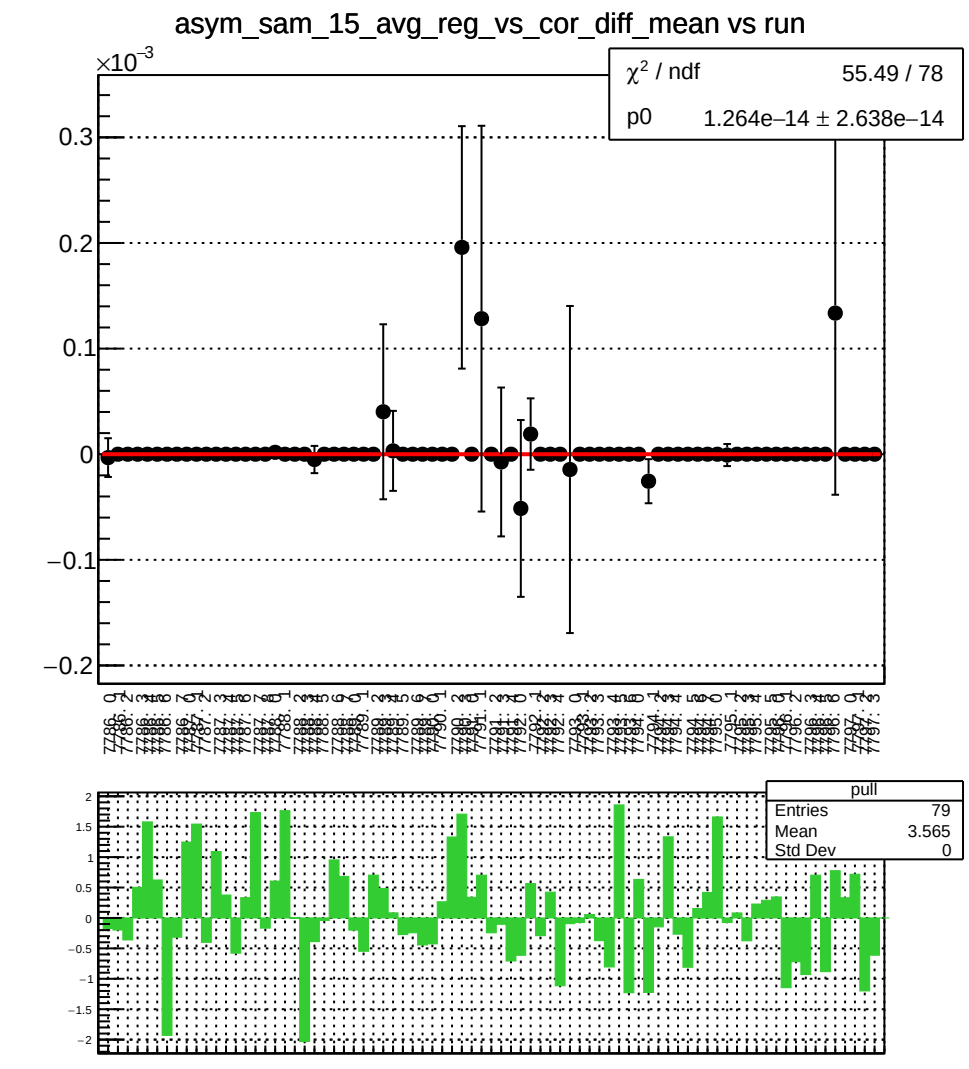

pull1D
Entries 79
Mean −0.005619
Std Dev 0.9031

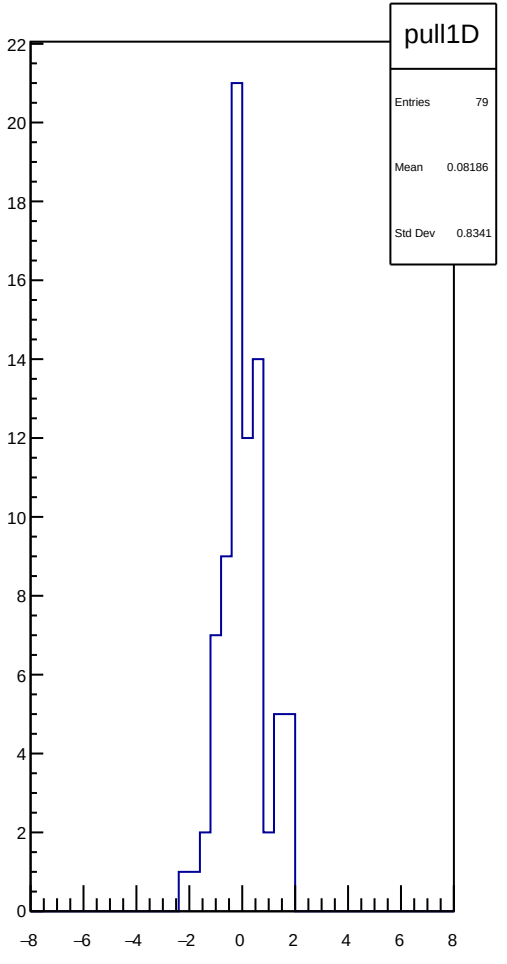

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 6176 / 78
p0 250.6 ± 0.2028
310
300
290
280
270
260
250
240
230
220

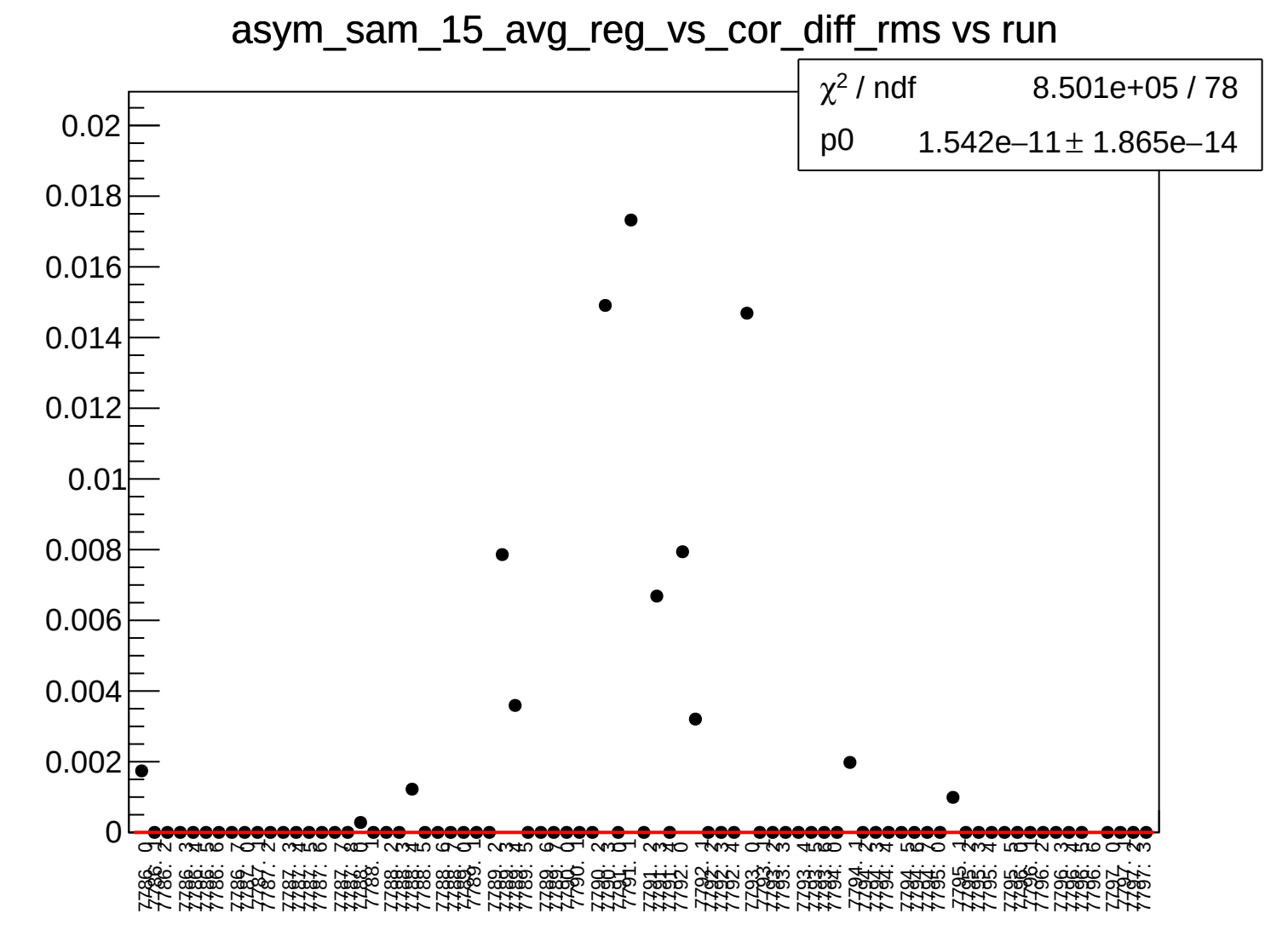

asym_sam_15_avg_mean vs run
χ² / ndf 60.24 / 78
p0 −66.27 ± 282.9
pull
Entries 79
Mean −60.26
Std Dev 0

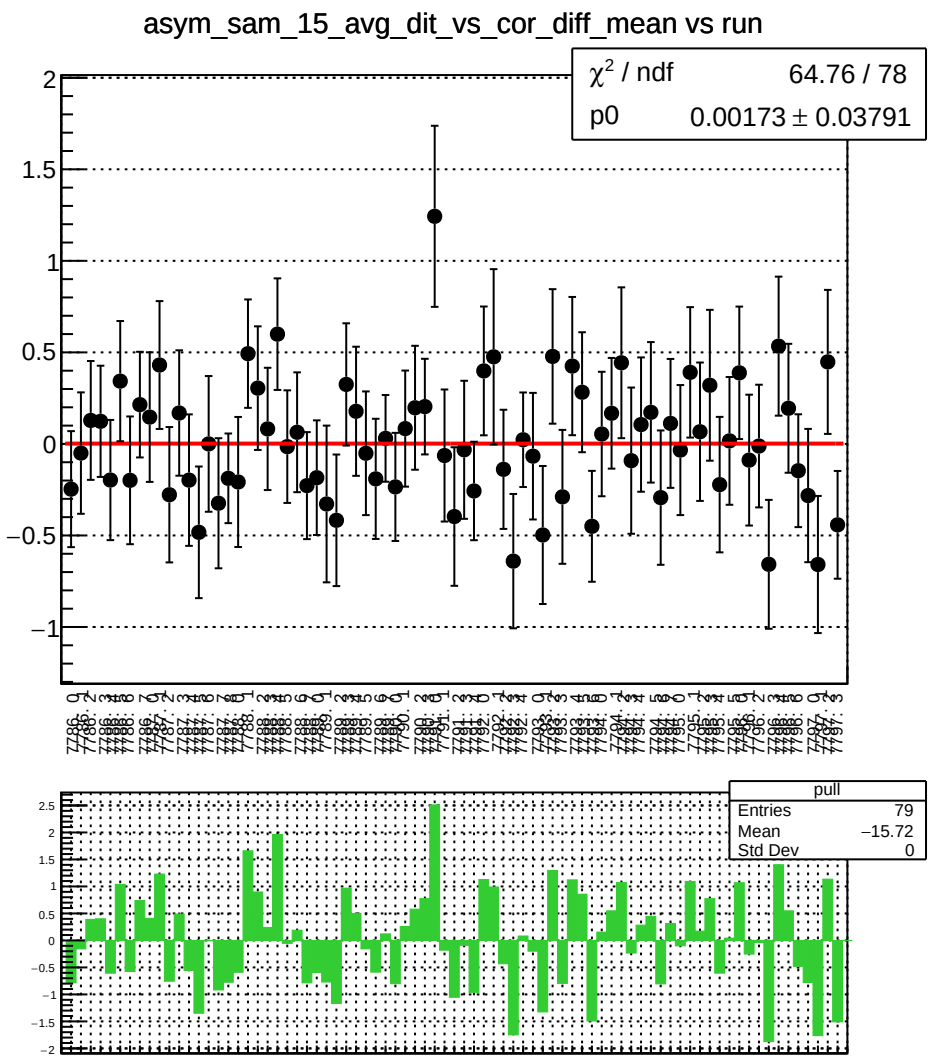

pull1D
Entries 79
Mean 0.004957
Std Dev 0.8732

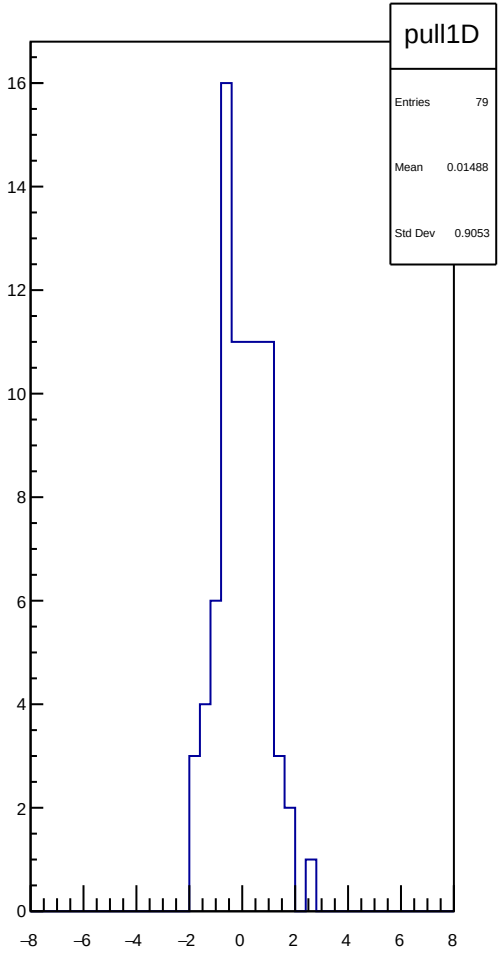

asym_sam_15_avg_rms vs run
χ² / ndf 8198 / 78
p0 247.1 ± 0.2
300
280
260
240
220

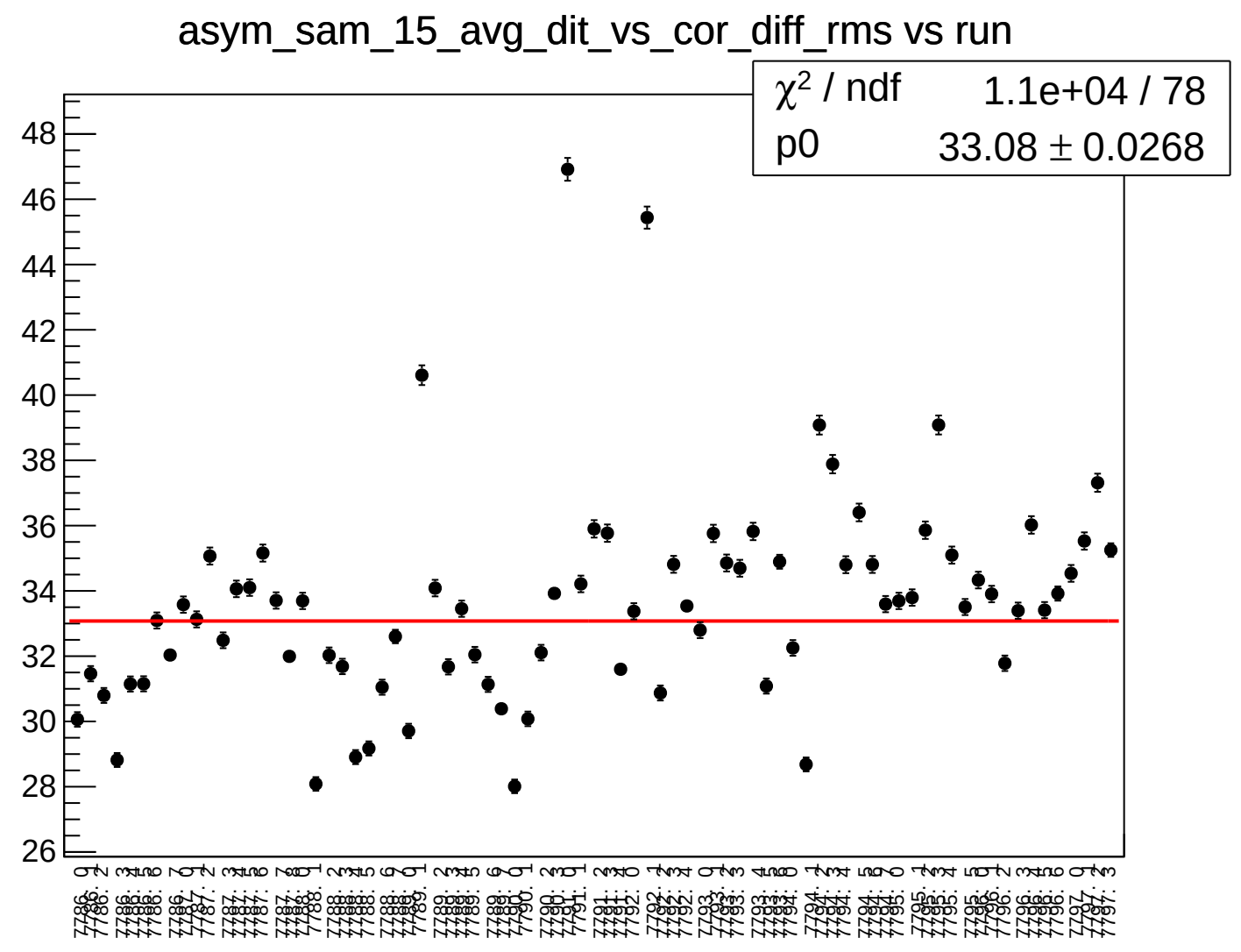

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 55.49 / 78
p0 1.264e−14 ± 2.638e−14
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 79
Mean 3.565
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

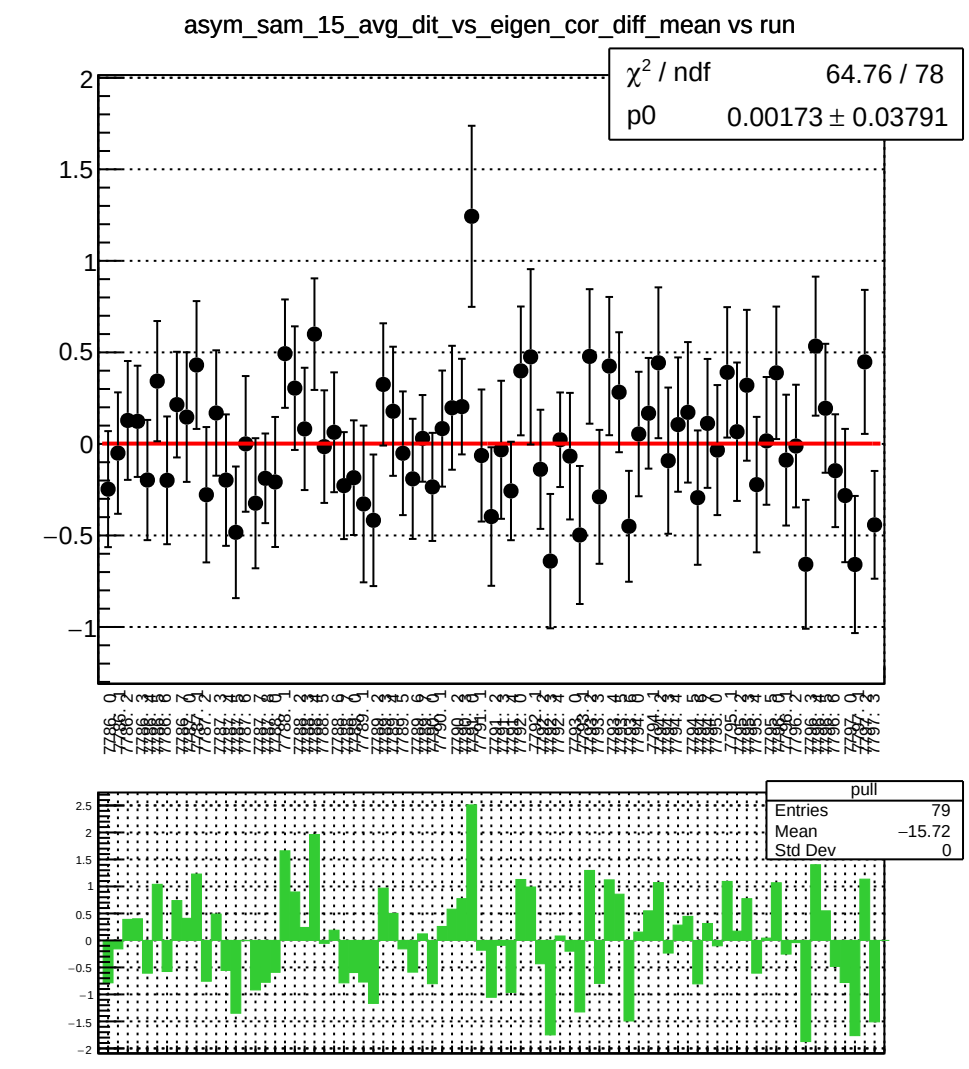

pull1D
Entries 79
Mean 0.08186
Std Dev 0.8341
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

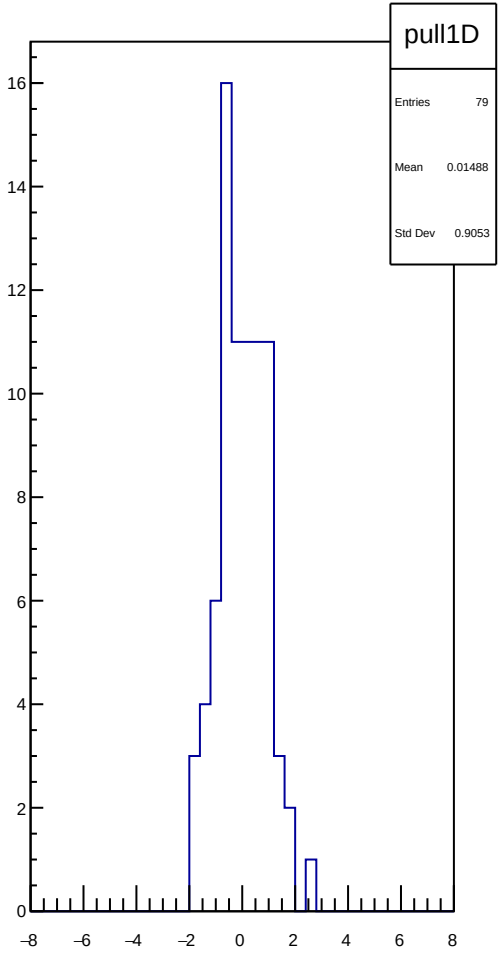

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.501e+05 / 78
p0 1.542e−11 ± 1.865e−14
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

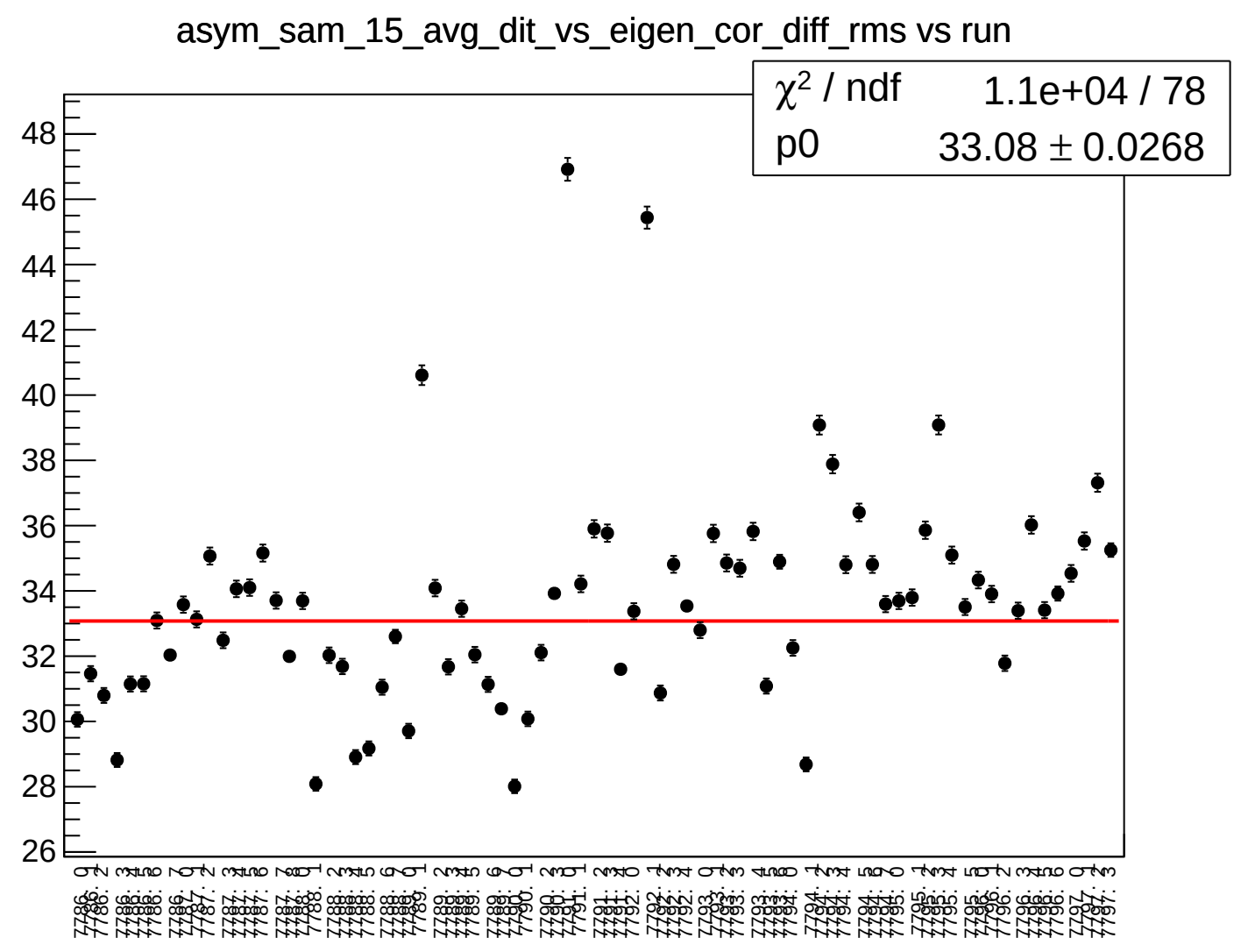

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 64.76 / 78
p0 0.00173 ± 0.03791
pull
Entries 79
Mean −15.72
Std Dev 0

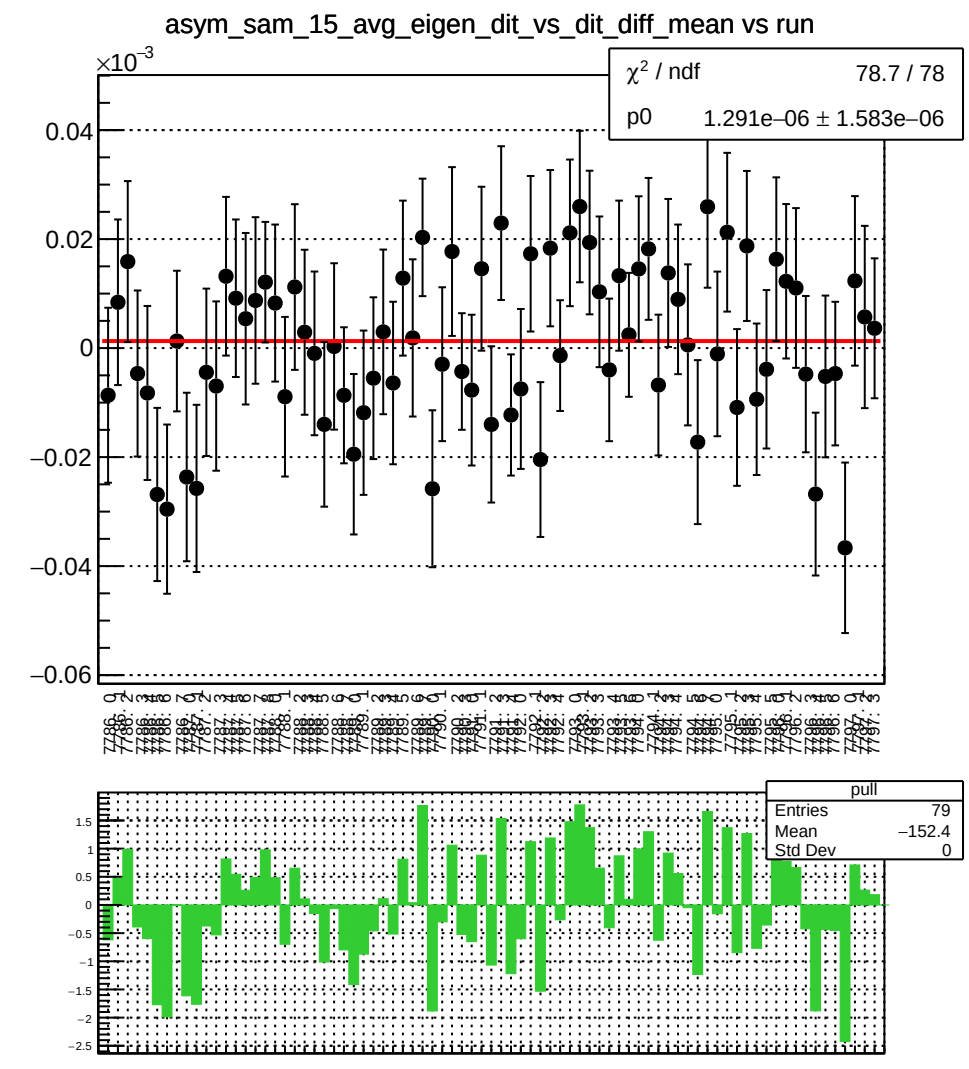

pull1D
Entries 79
Mean 0.01488
Std Dev 0.9053

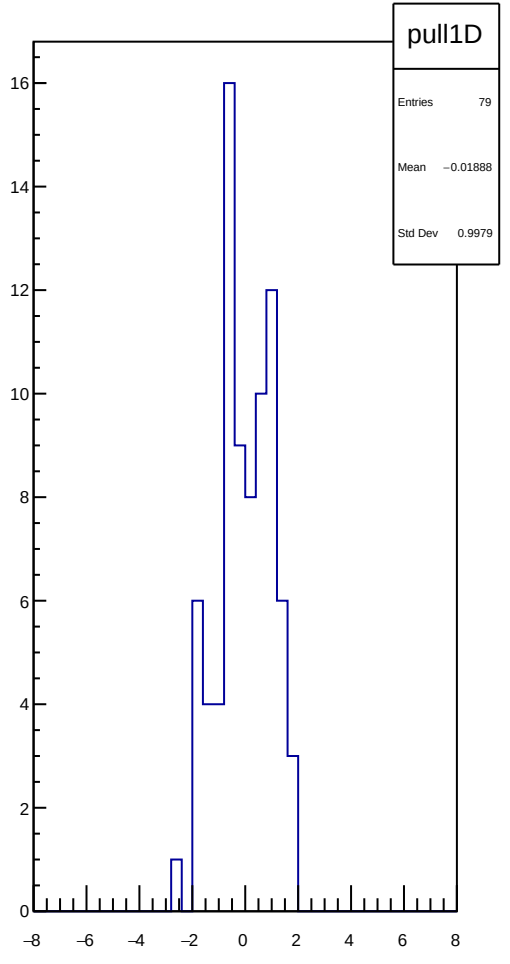

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.1e+04 / 78
p0 33.08 ± 0.0268
48
46
44
42
40
38
36
34
32
30
28
26

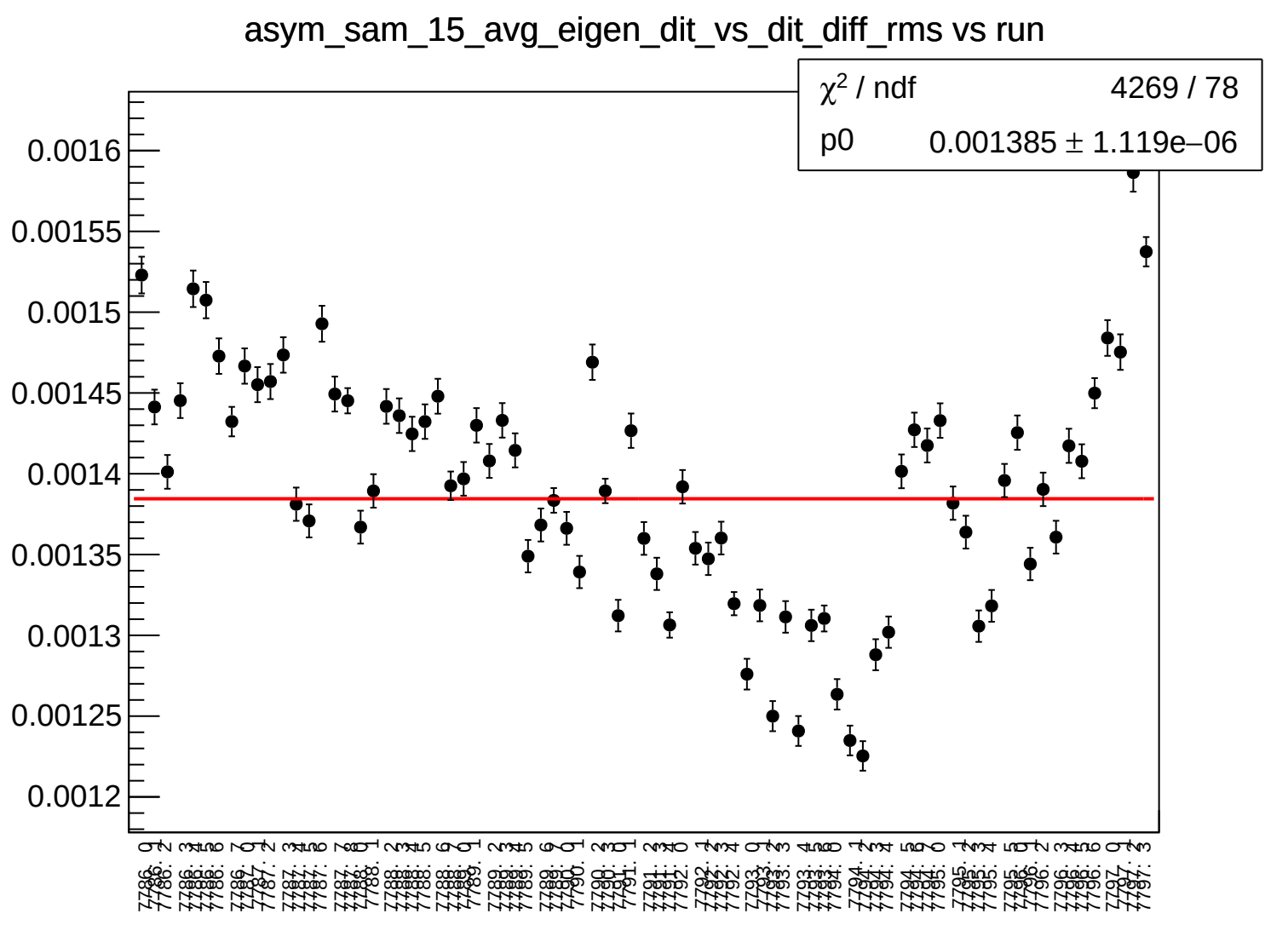

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.76 / 78
p0 0.00173 ± 0.03791
pull
Entries 79
Mean −15.72
Std Dev 0

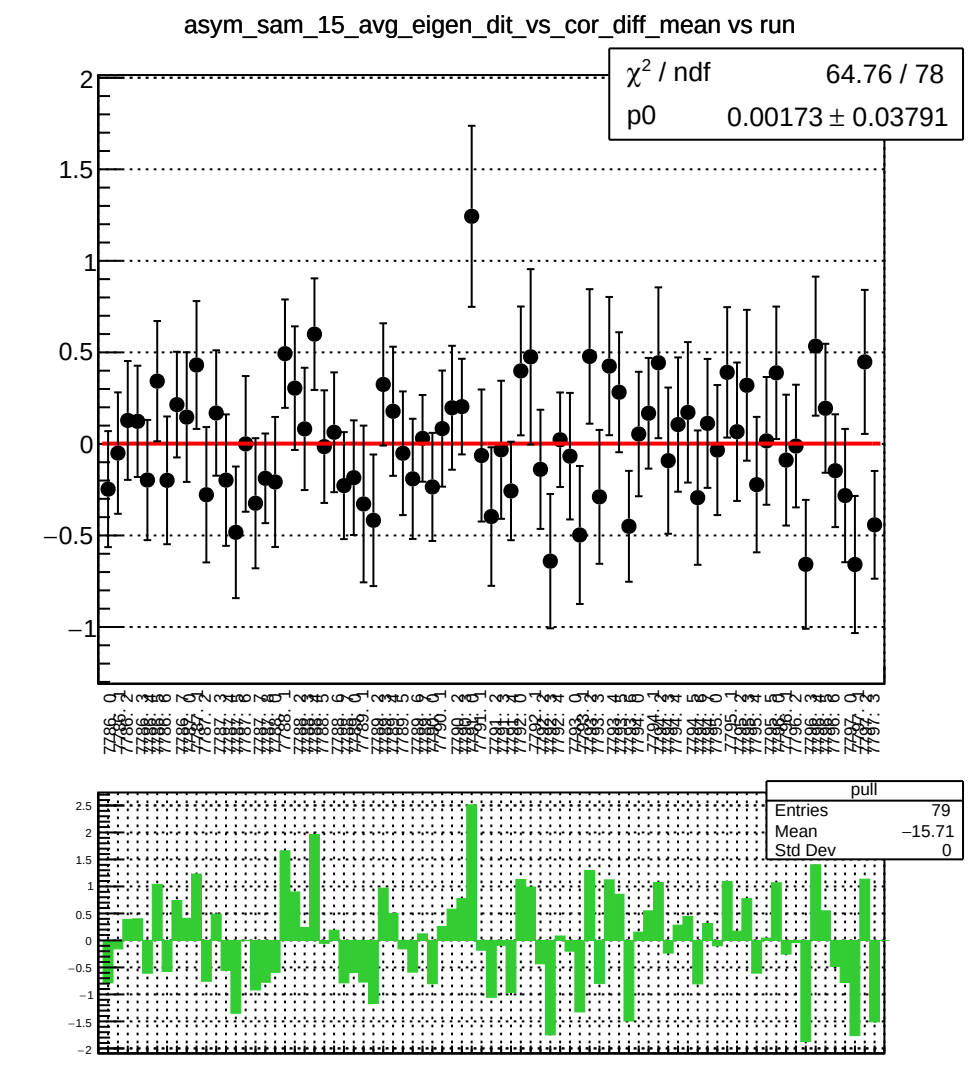

pull1D
Entries 79
Mean 0.01488
Std Dev 0.9053

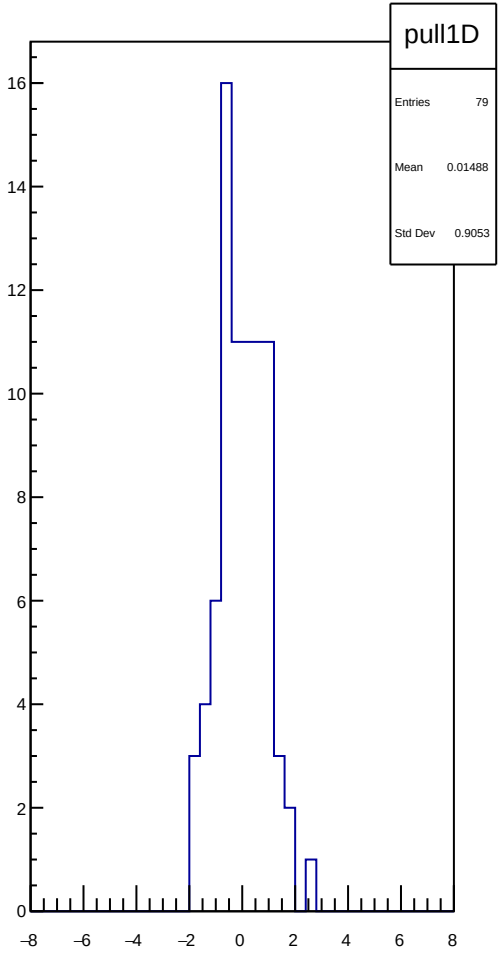

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.1e+04 / 78
p0 33.08 ± 0.0268
48
46
44
42
40
38
36
34
32
30
28
26

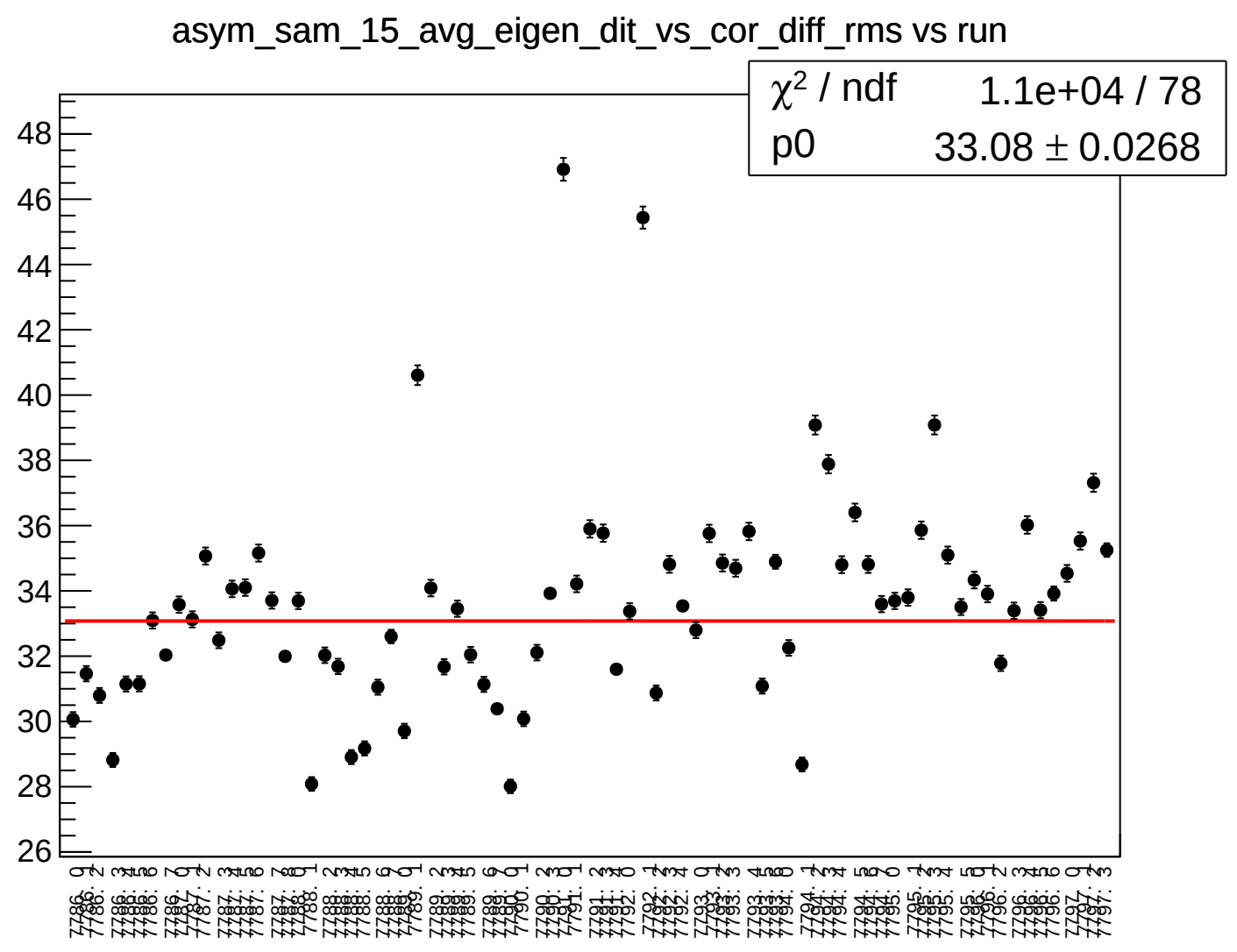

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.7 / 78
p0 1.291e−06 ± 1.583e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 79
Mean −152.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

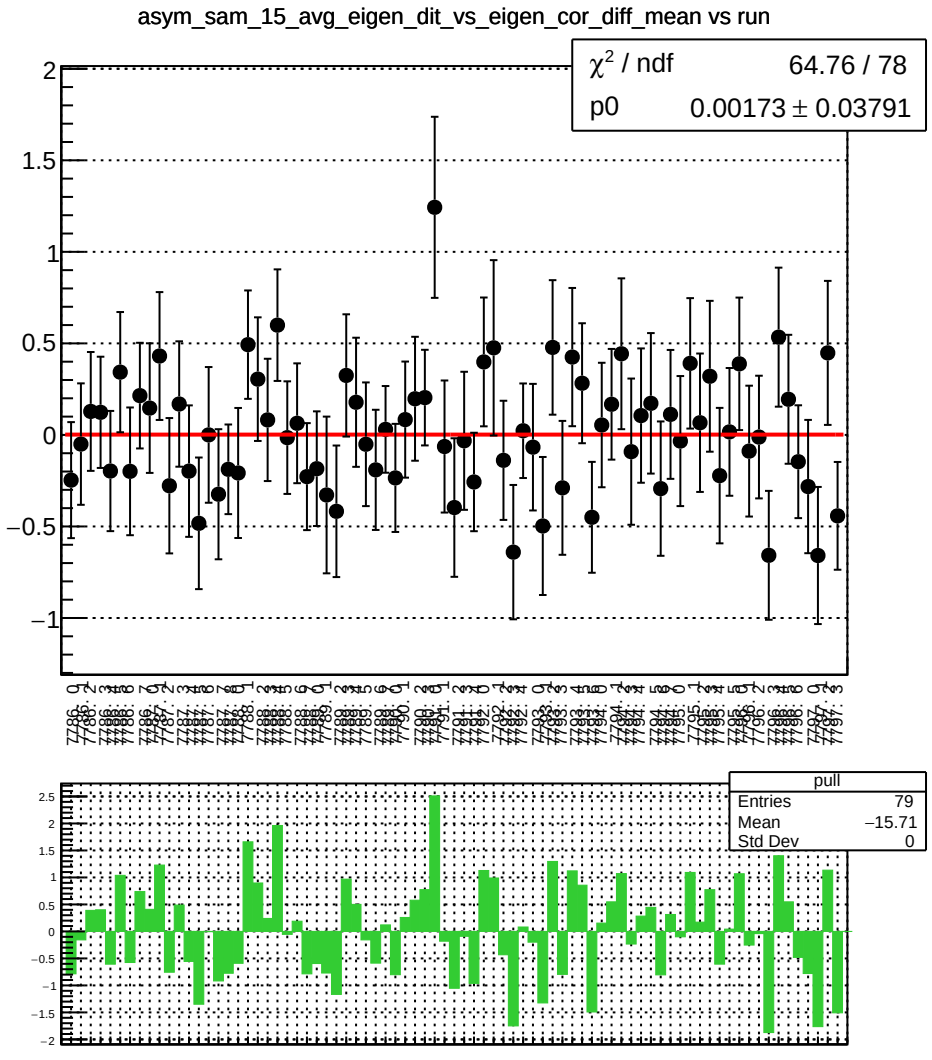

pull1D
Entries 79
Mean −0.01888
Std Dev 0.9979
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

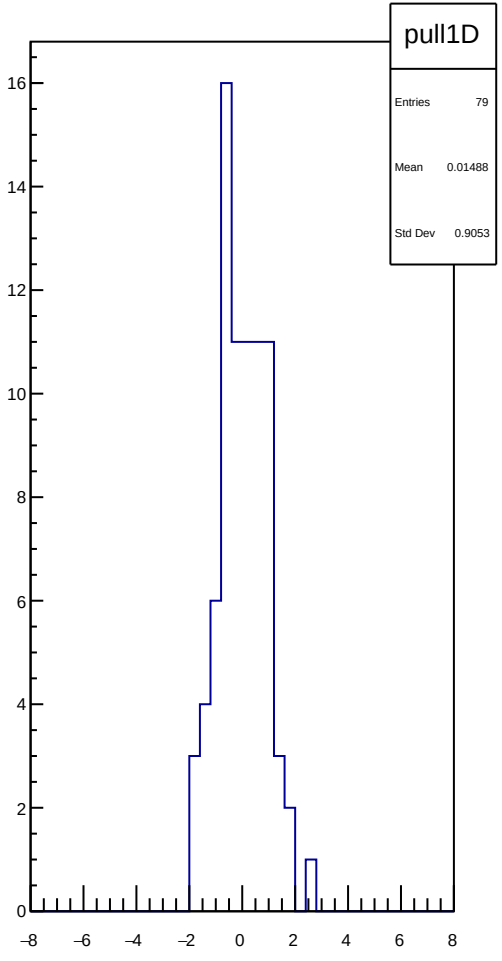

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4269 / 78
p0 0.001385 ± 1.119e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012

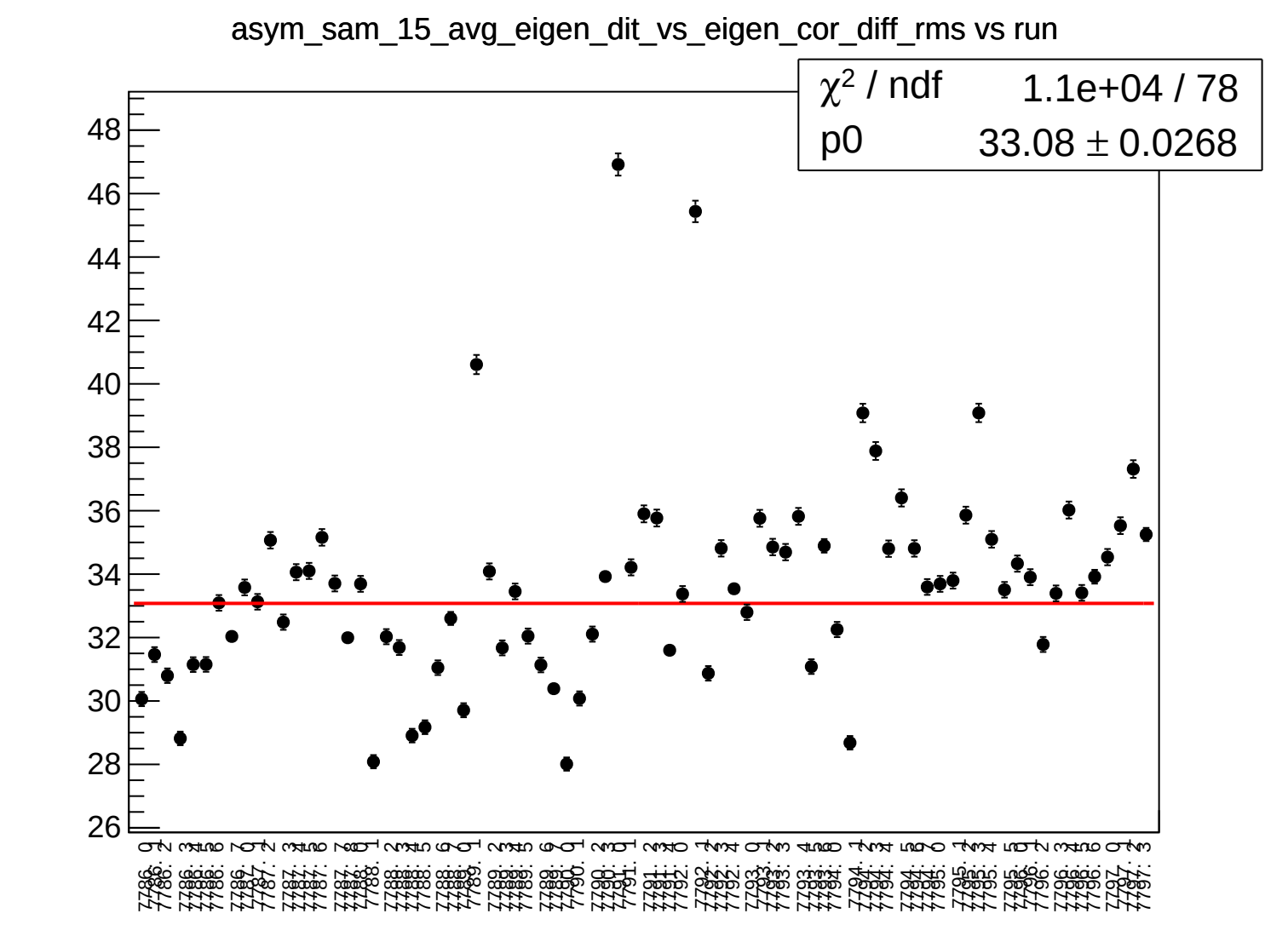

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.76 / 78
p0 0.00173 ± 0.03791
pull
Entries 79
Mean −15.71
Std Dev 0

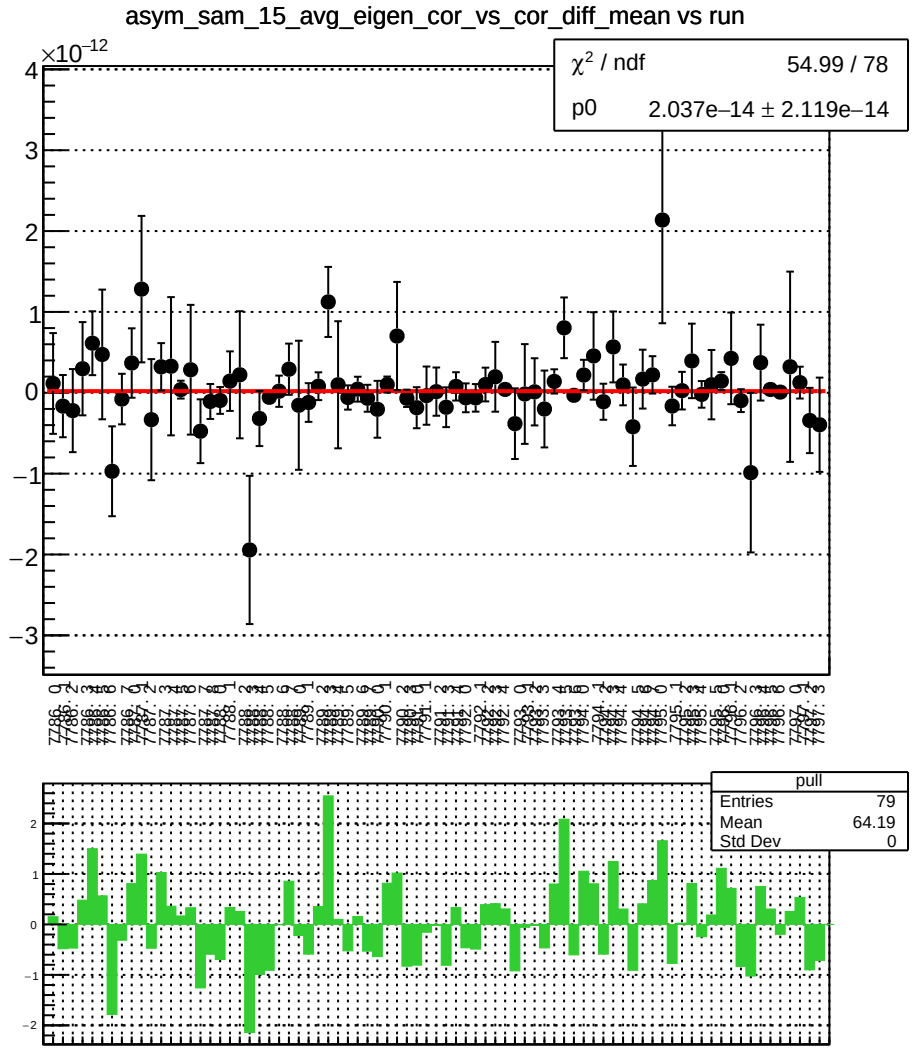

pull1D
Entries 79
Mean 0.01488
Std Dev 0.9053

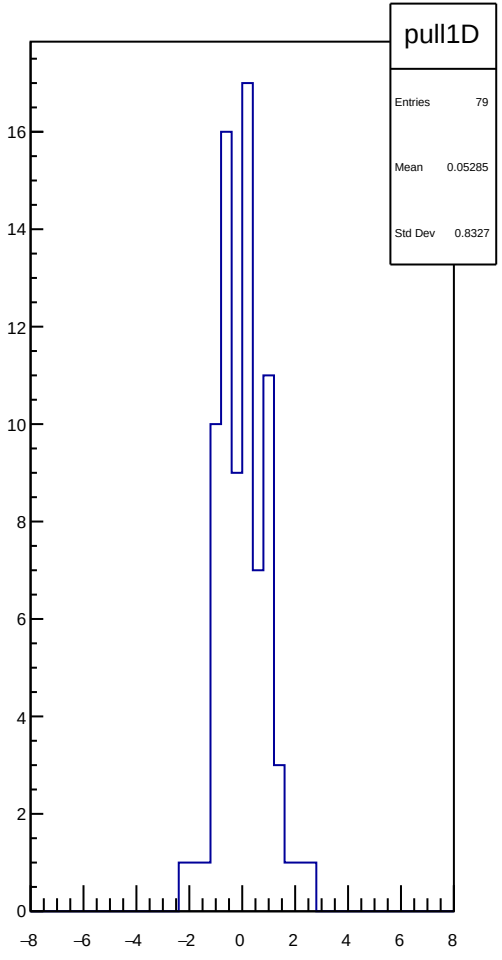

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.1e+04 / 78
p0 33.08 ± 0.0268
48
46
44
42
40
38
36
34
32
30
28
26

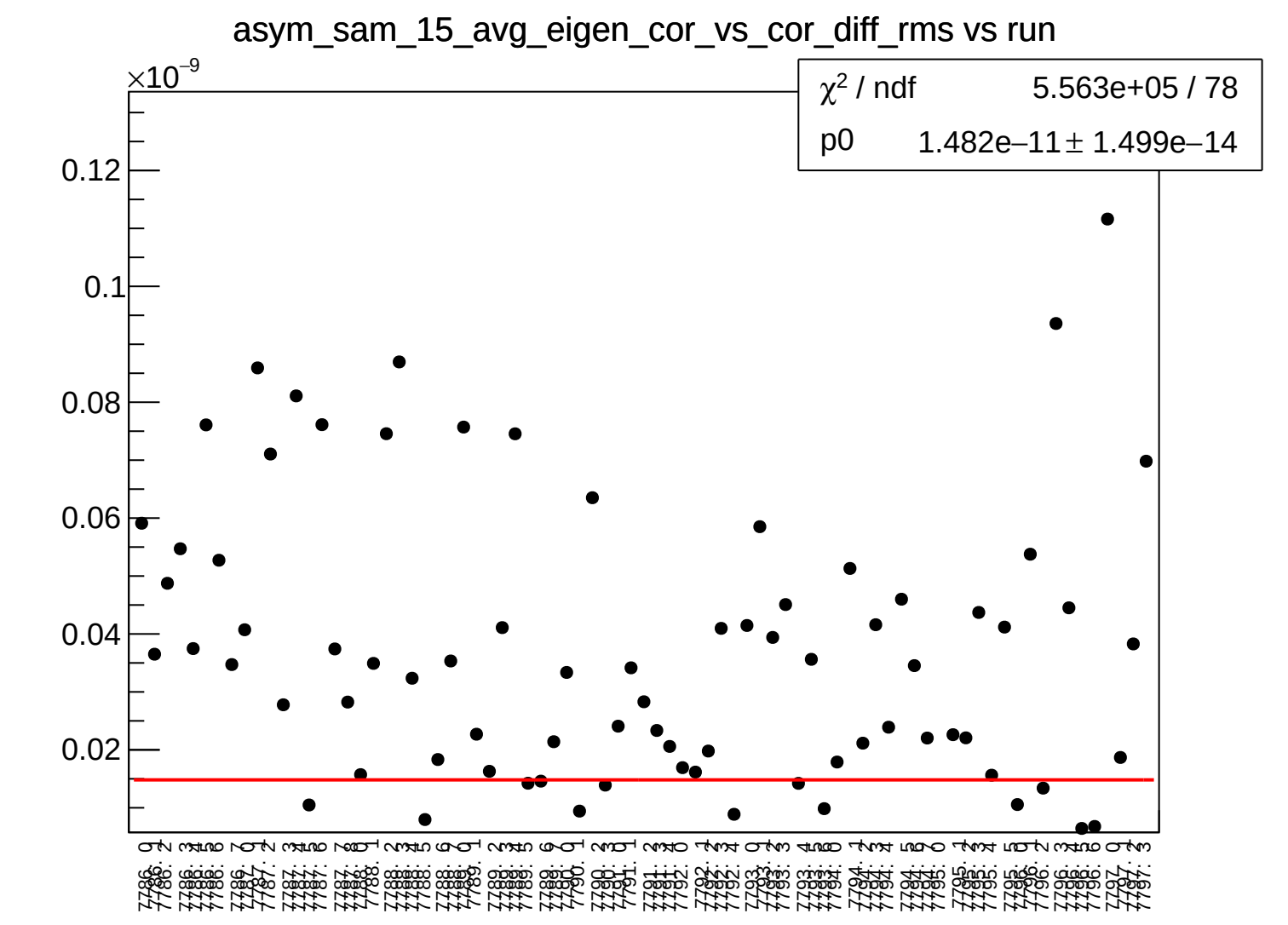

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.76 / 78
p0 0.00173 ± 0.03791
pull
Entries 79
Mean −15.71
Std Dev 0

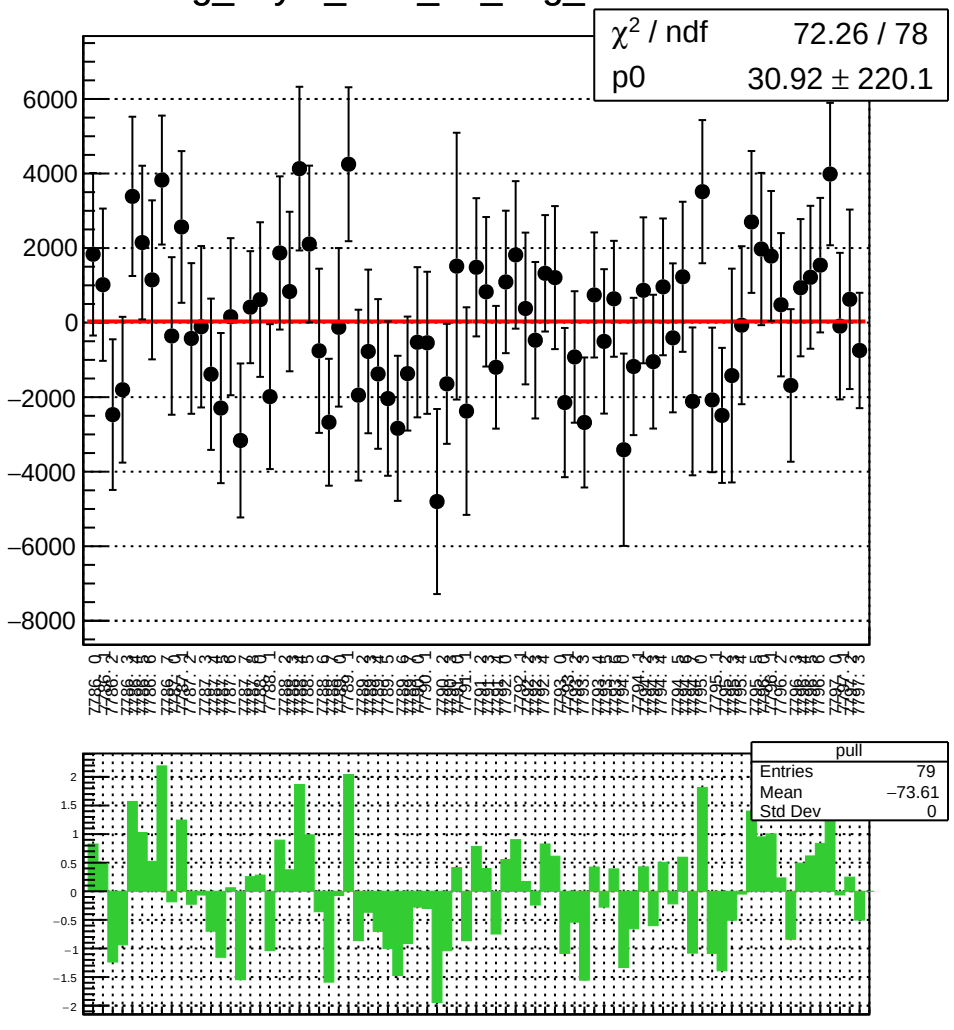

pull1D
Entries 79
Mean 0.01488
Std Dev 0.9053

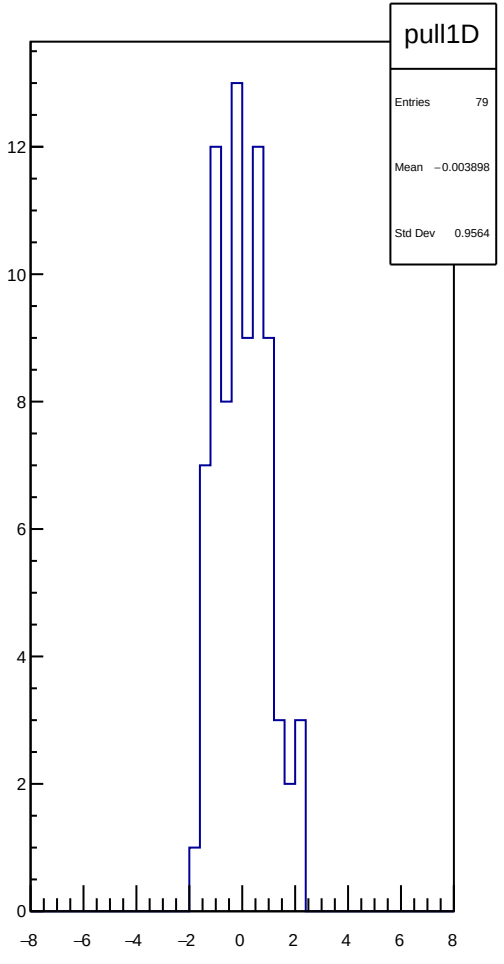

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.1e+04 / 78
p0 33.08 ± 0.0268
48
46
44
42
40
38
36
34
32
30
28
26

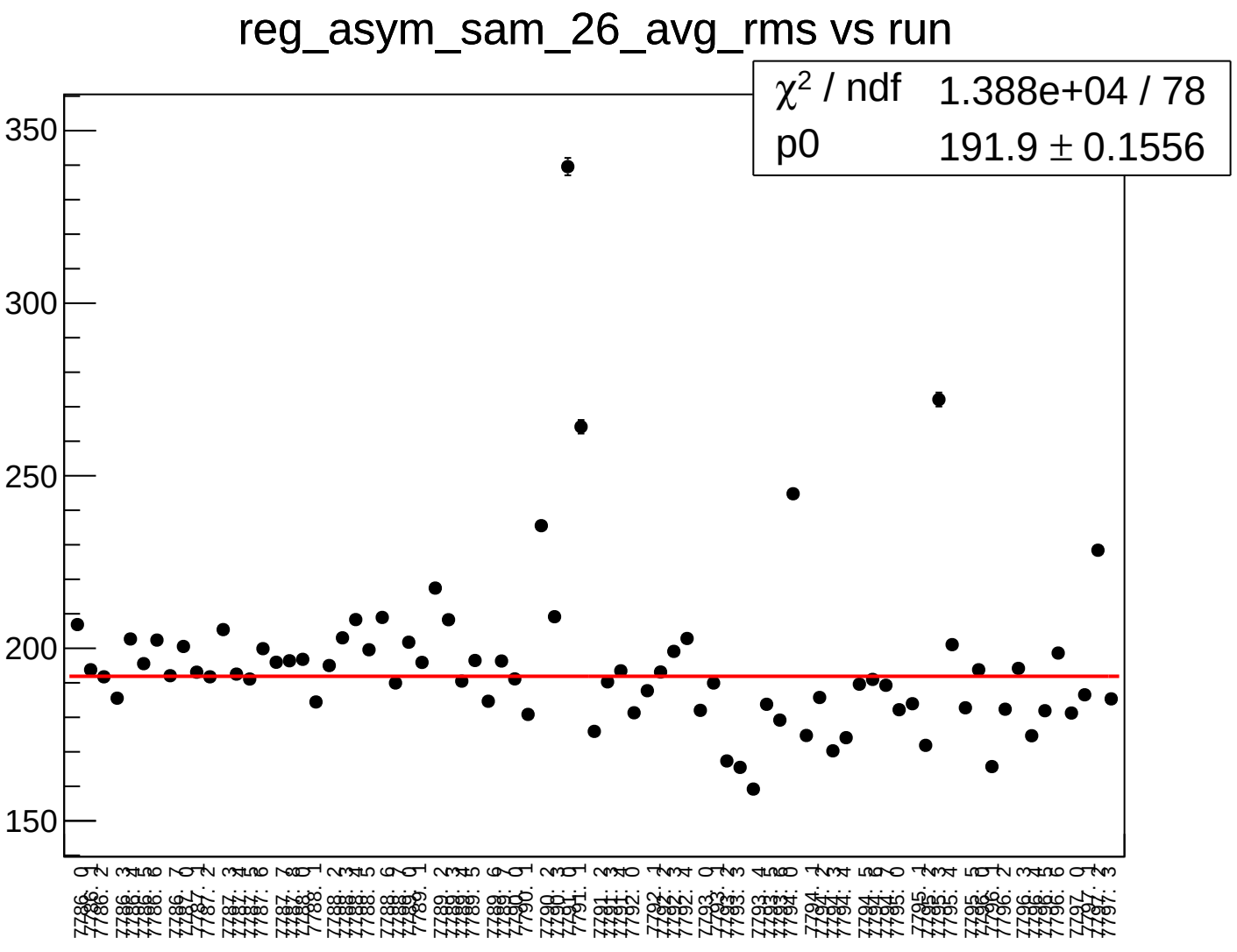

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.99 / 78
p0 2.037e−14 ± 2.119e−14
pull
Entries 79
Mean 64.19
Std Dev 0

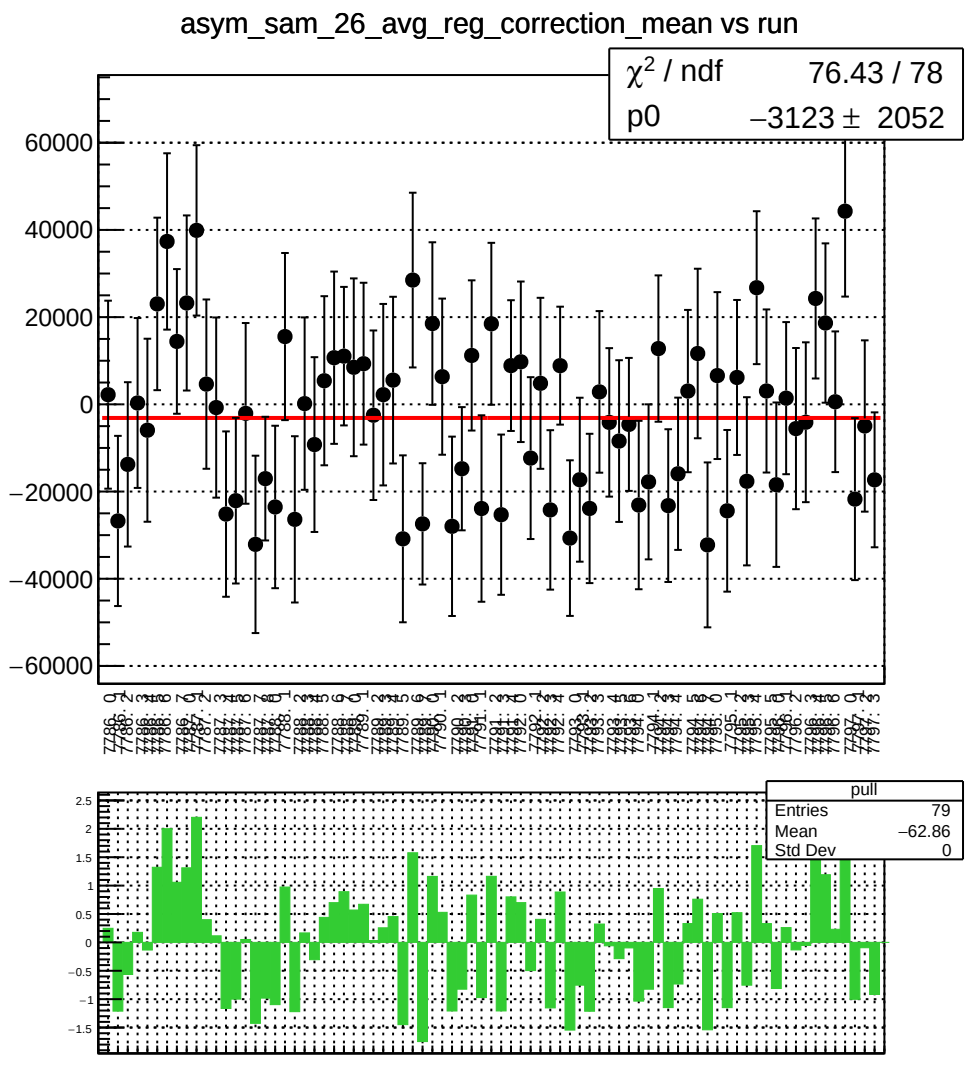

pull1D
Entries 79
Mean 0.05285
Std Dev 0.8327

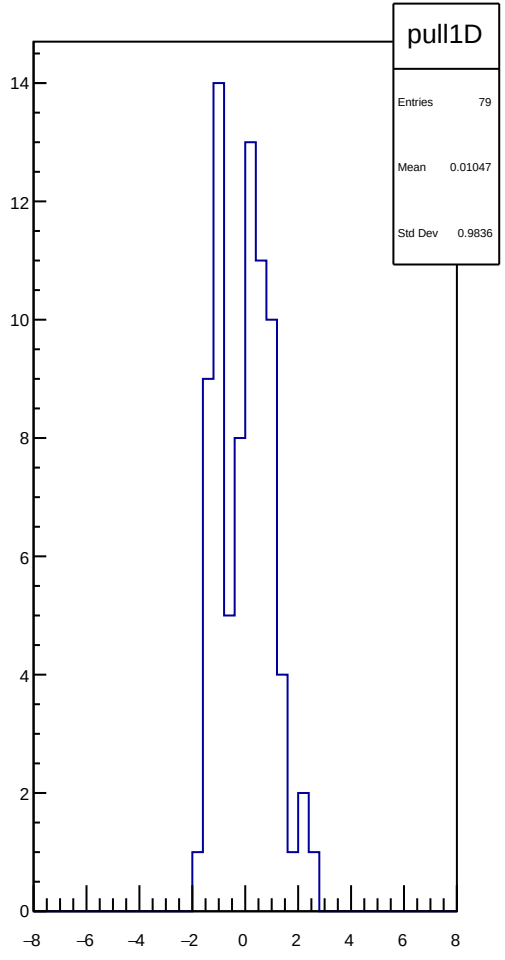

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.563e+05 / 78
p0 1.482e−11 ± 1.499e−14
0.12
0.1
0.08
0.06
0.04
0.02

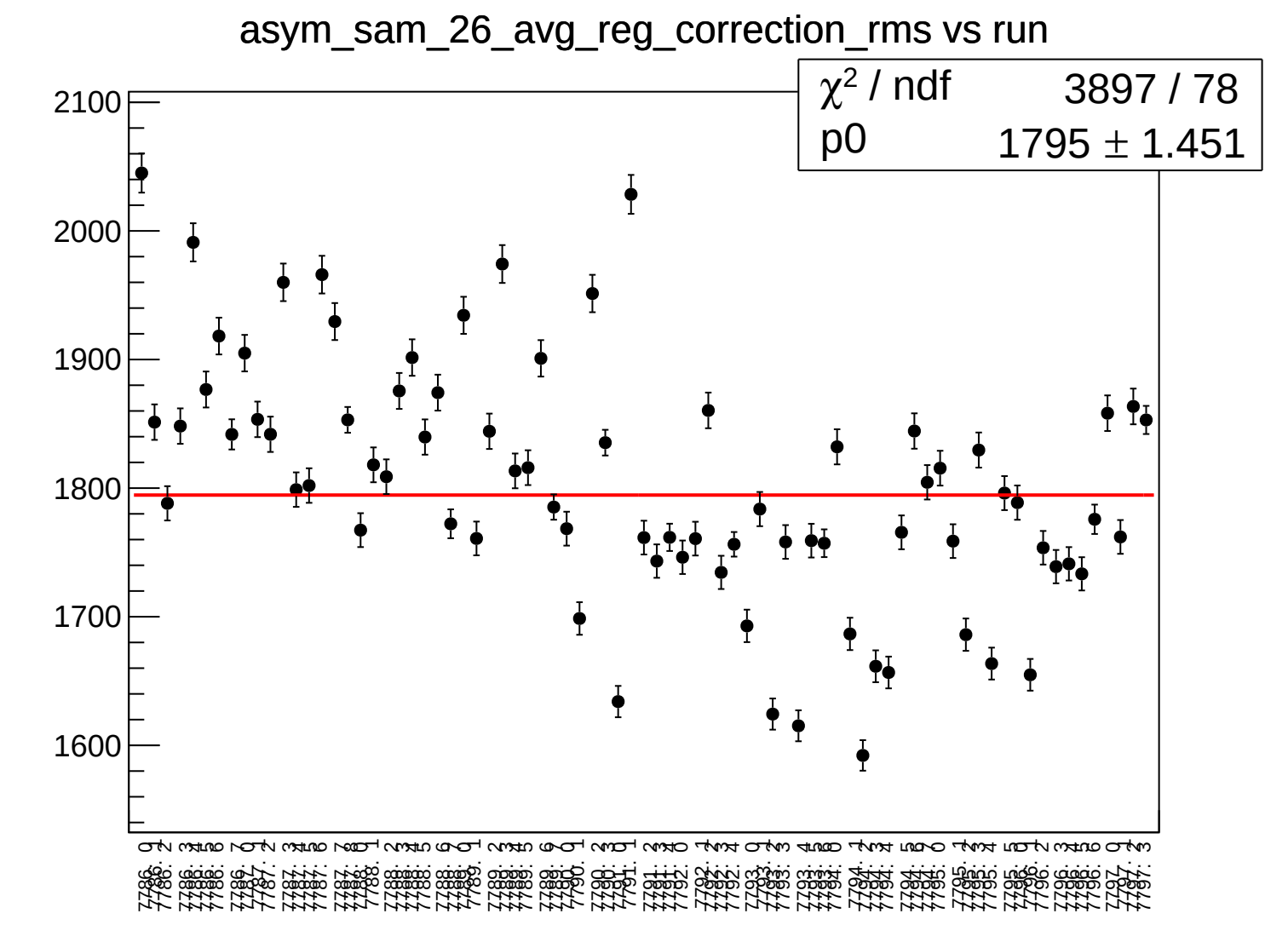

reg_asym_sam_26_avg_mean vs run
χ² / ndf 72.26 / 78
p0 30.92 ± 220.1
pull
Entries 79
Mean −73.61
Std Dev 0

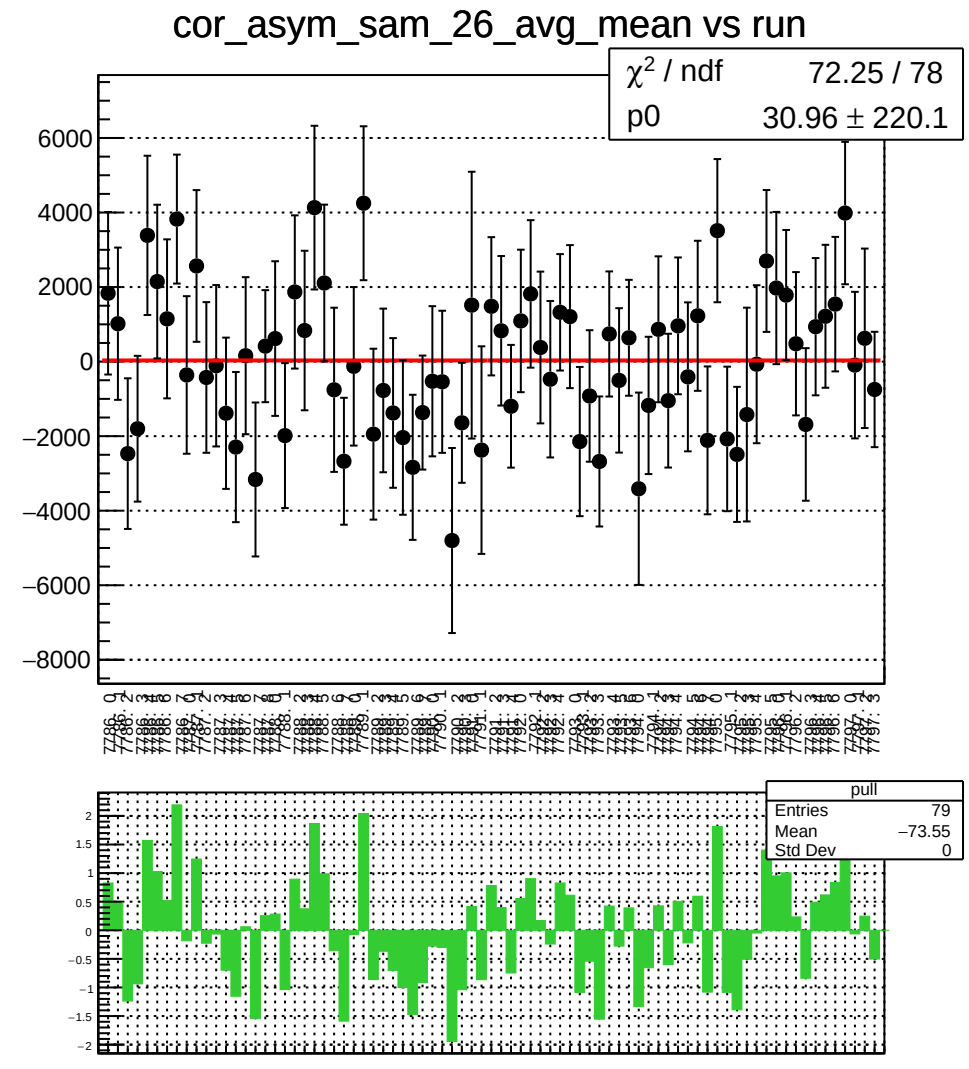

pull1D
Entries 79
Mean −0.003898
Std Dev 0.9564

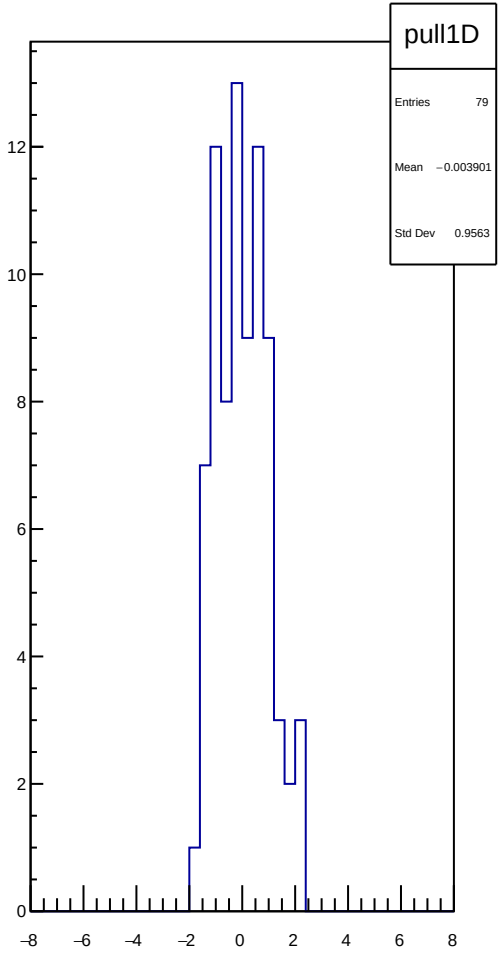

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.388e+04 / 78
p0 191.9 ± 0.1556
350
300
250
200
150

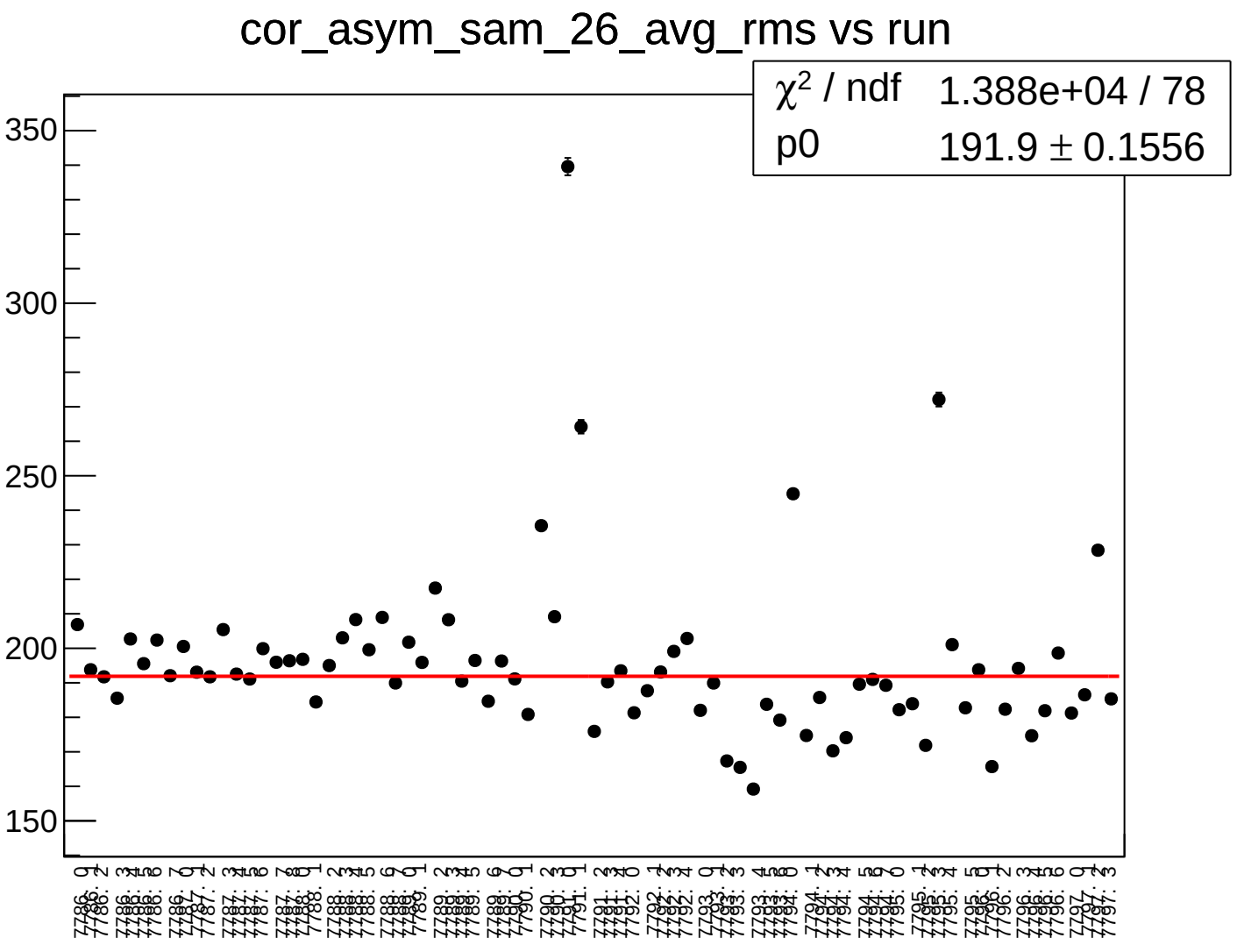

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 76.43 / 78
p0 −3123 ± 2052
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −62.86
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

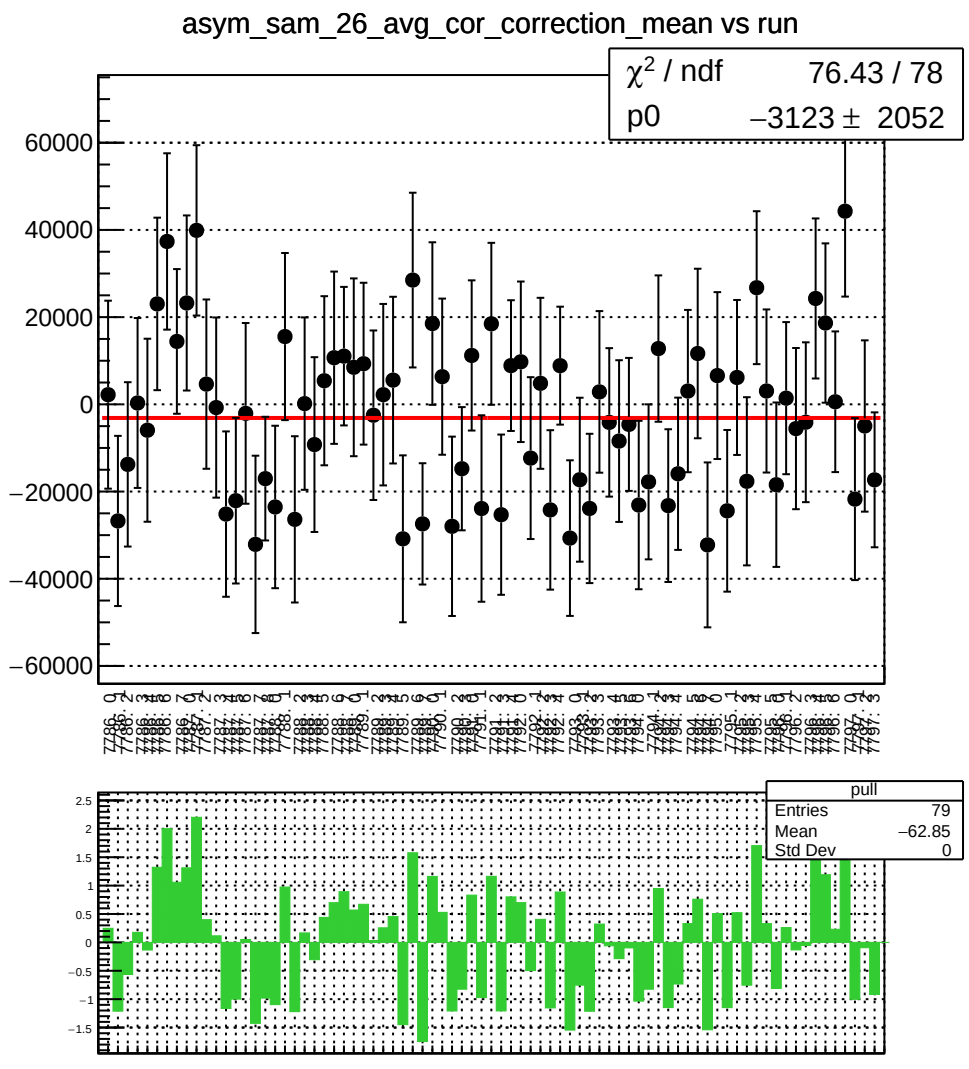

pull1D
Entries 79
Mean 0.01047
Std Dev 0.9836
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

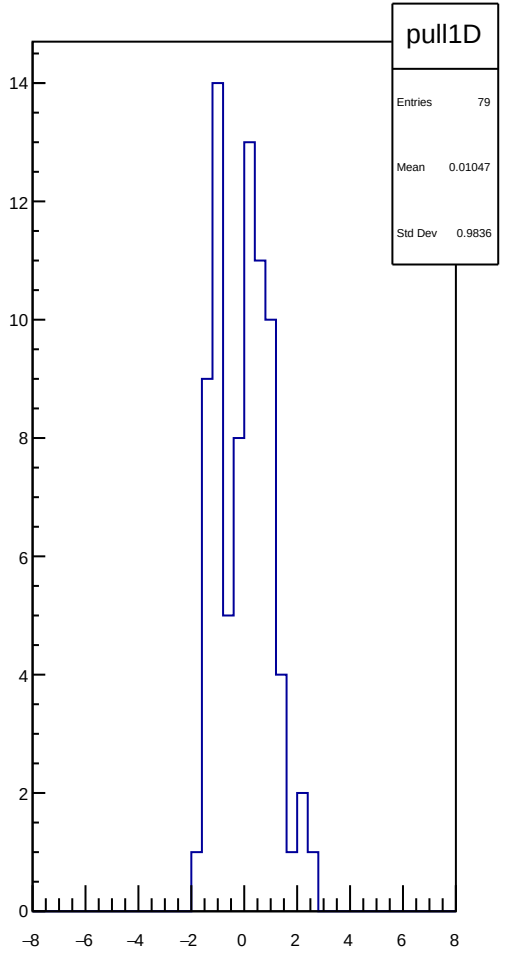

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 3897 / 78
p0 1795 ± 1.451
2100
2000
1900
1800
1700
1600

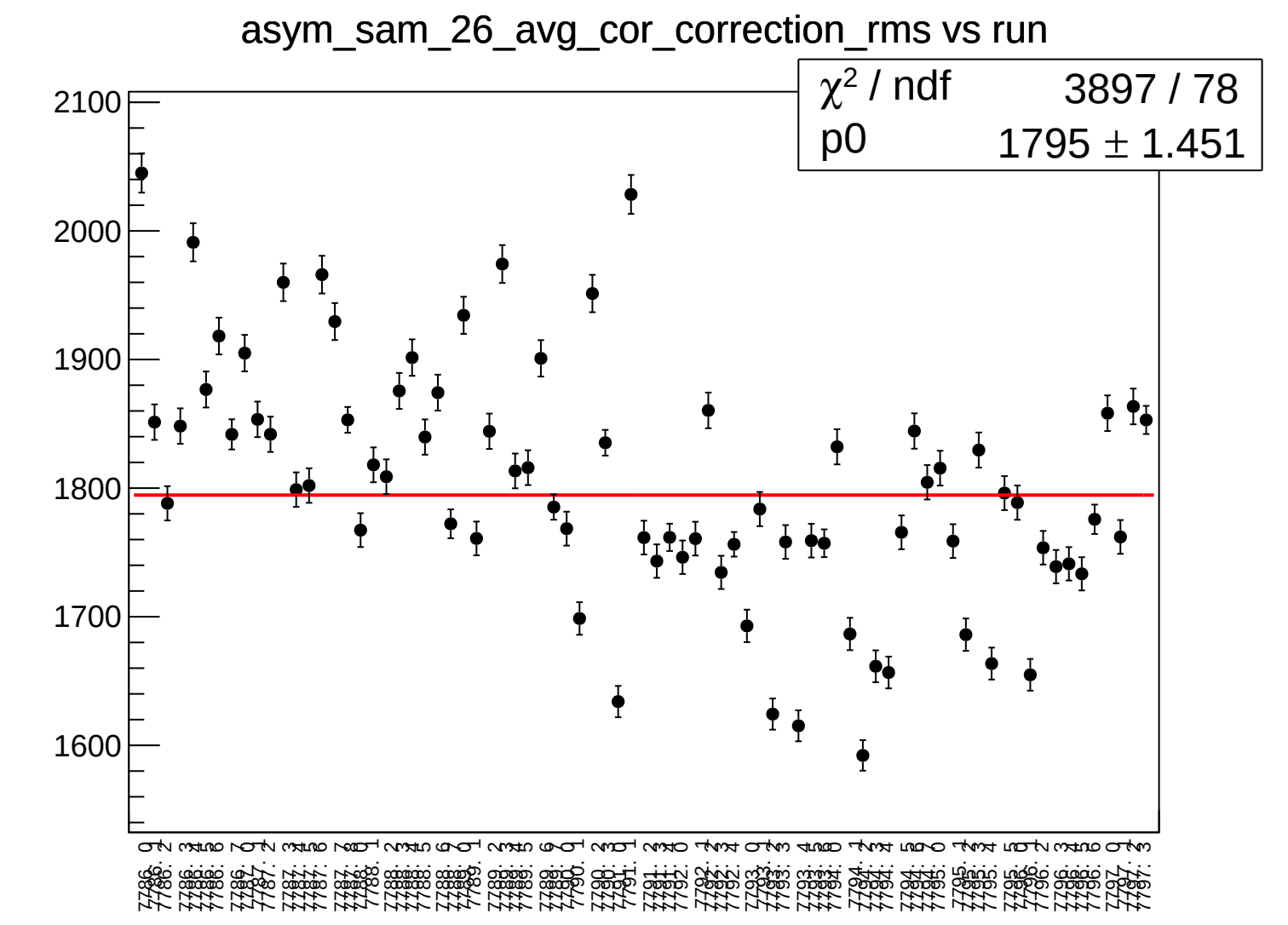

cor_asym_sam_26_avg_mean vs run
χ² / ndf 72.25 / 78
p0 30.96 ± 220.1
pull
Entries 79
Mean −73.55
Std Dev 0

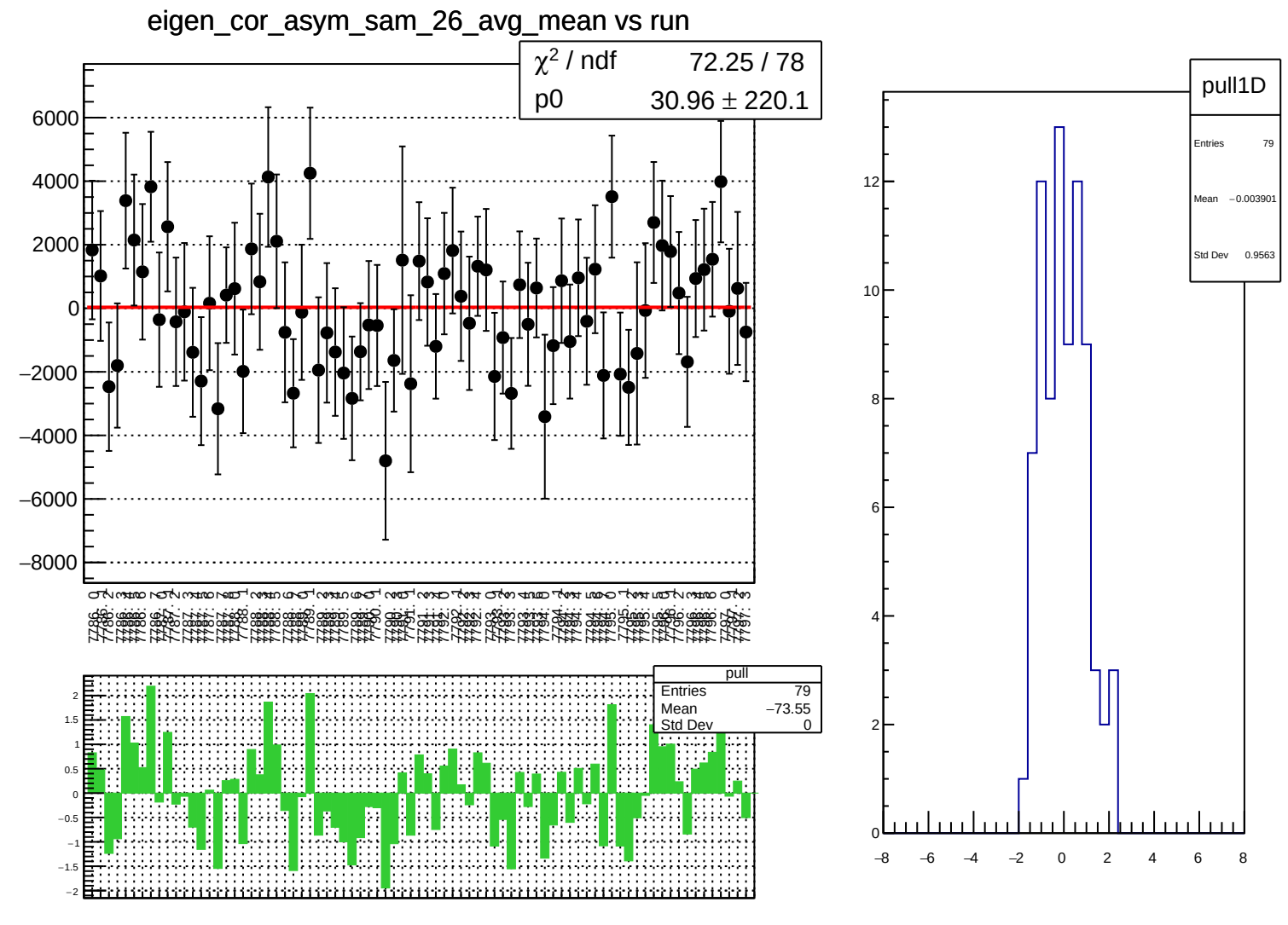

pull1D
Entries 79
Mean −0.003901
Std Dev 0.9563

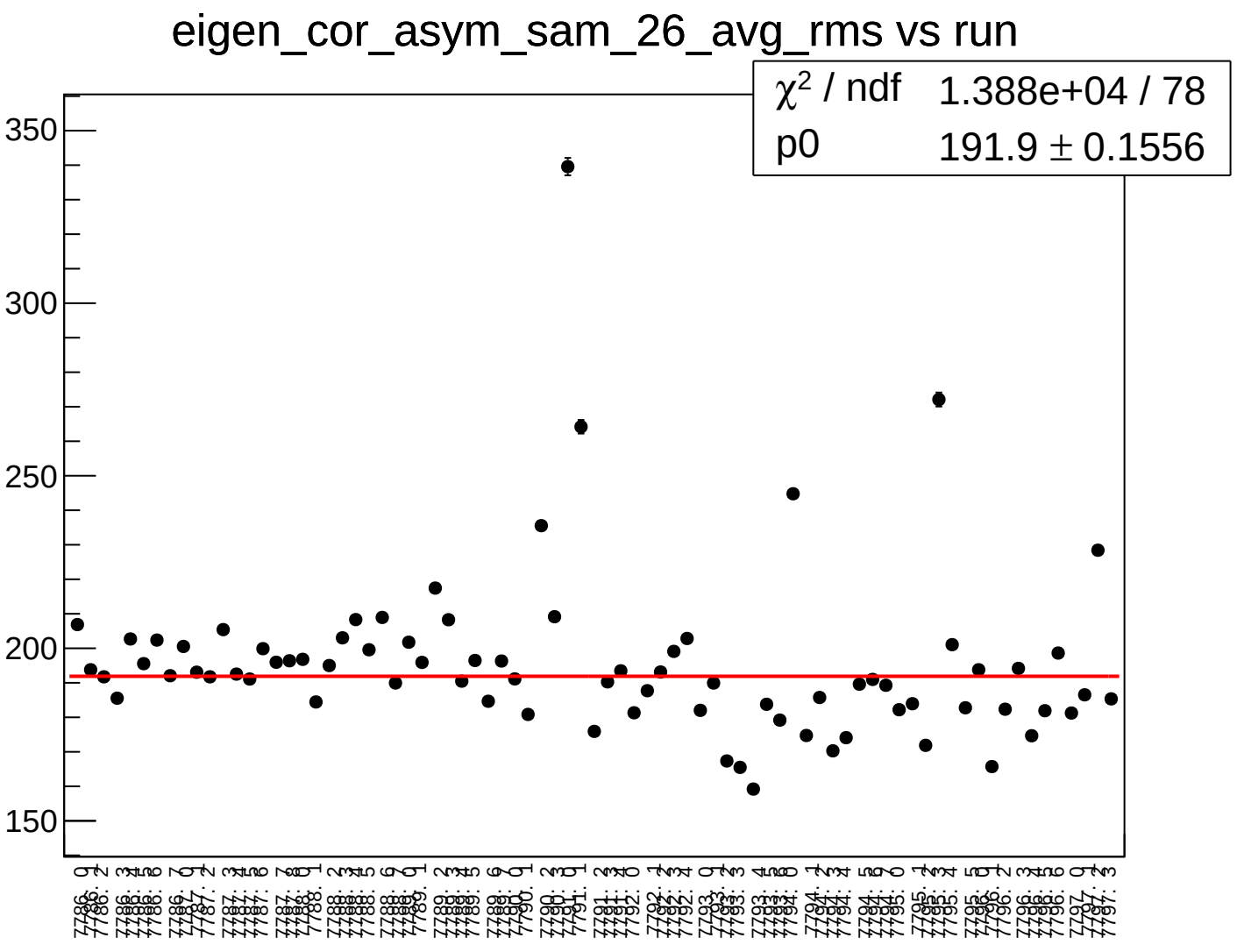

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.388e+04 / 78
p0 191.9 ± 0.1556
350
300
250
200
150

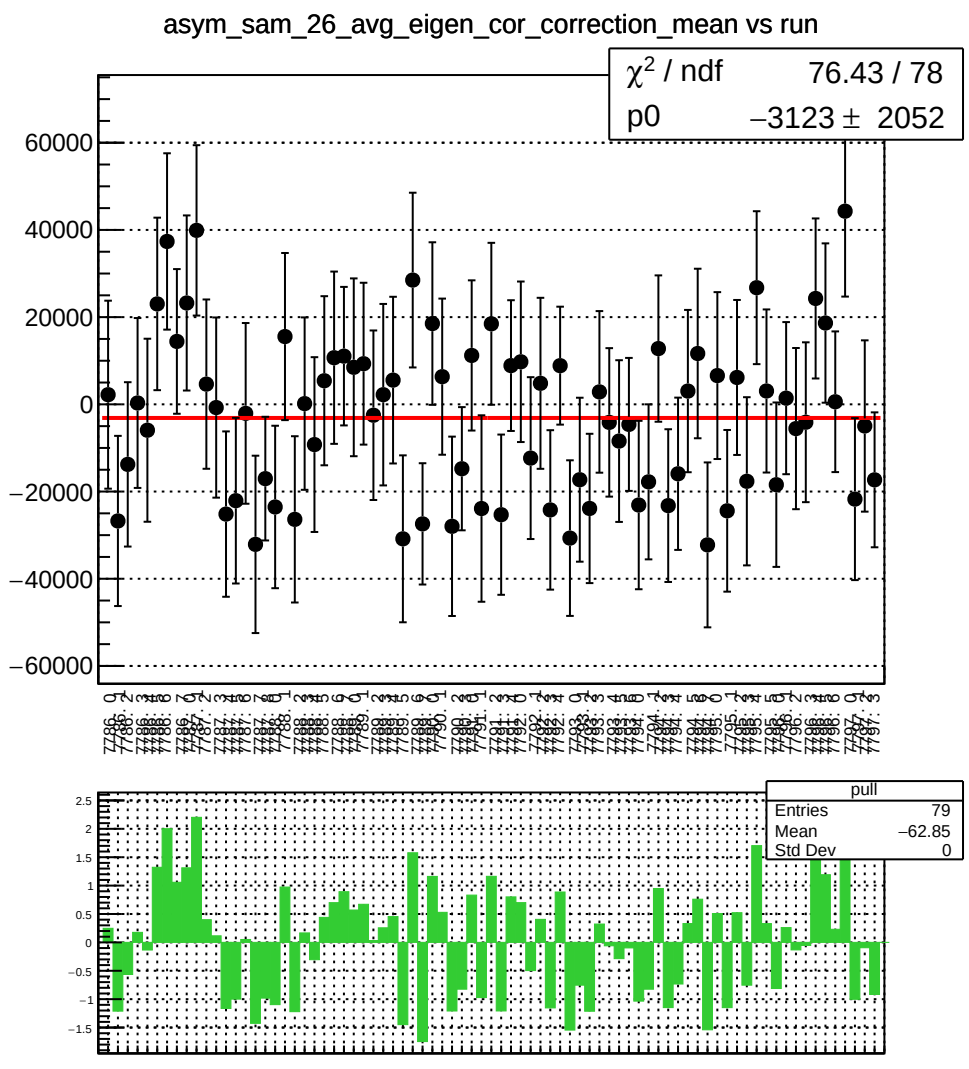

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 76.43 / 78
p0 −3123 ± 2052
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −62.85
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

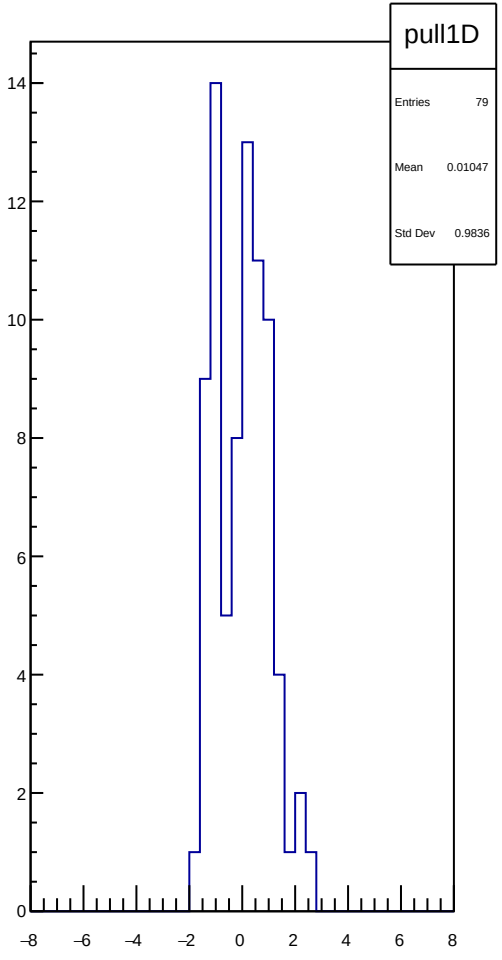

pull1D
Entries 79
Mean 0.01047
Std Dev 0.9836
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

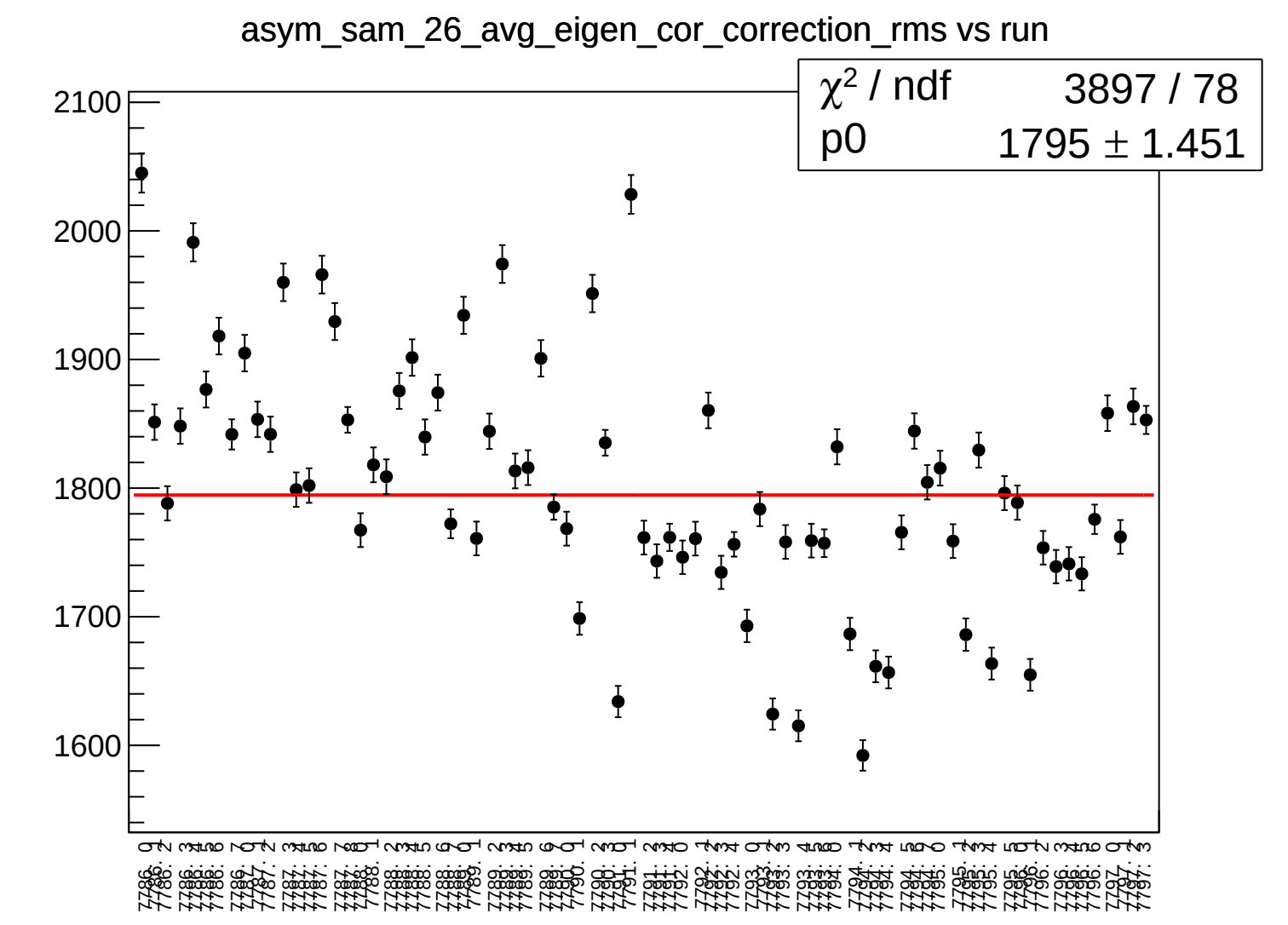

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 3897 / 78
p0 1795 ± 1.451
2100
2000
1900
1800
1700
1600

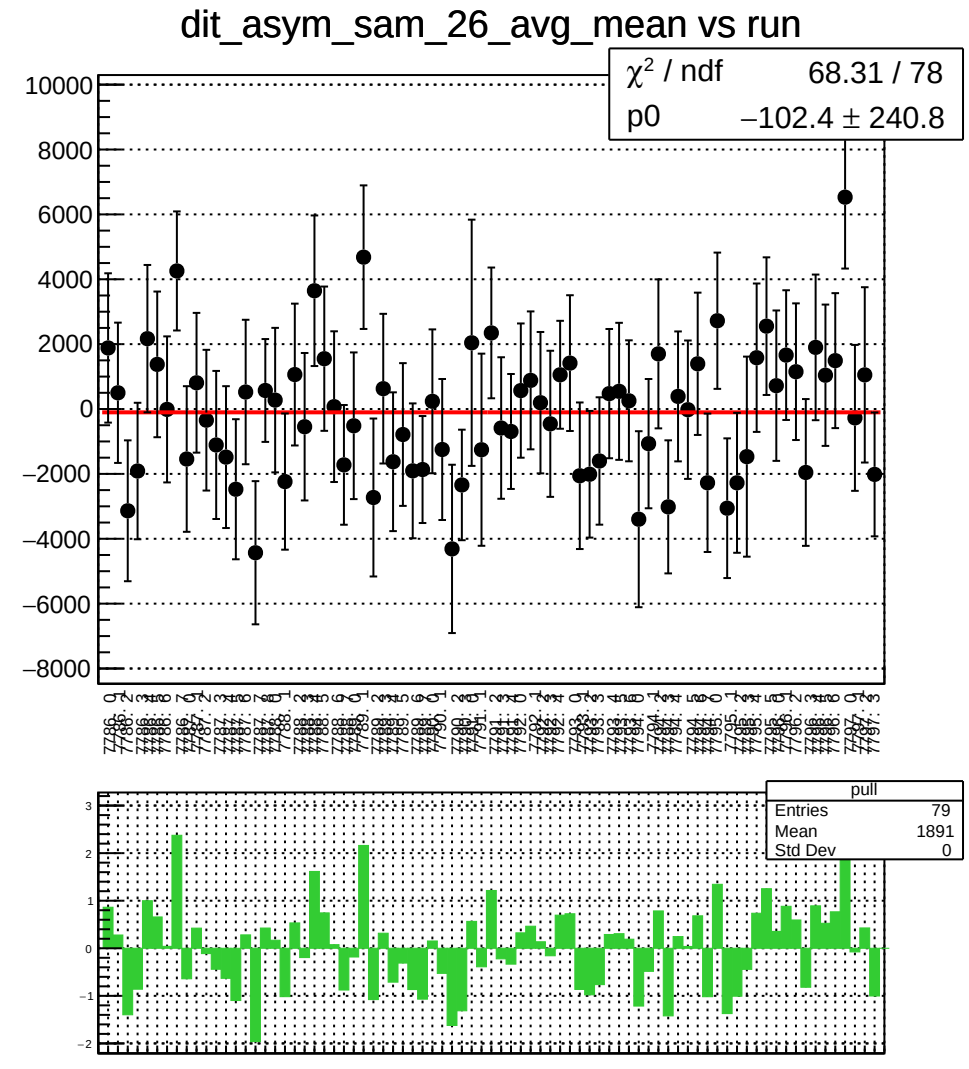

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 72.25 / 78
p0 30.96 ± 220.1
pull
Entries 79
Mean −73.55
Std Dev 0
pull1D
Entries 79
Mean −0.003901
Std Dev 0.9563

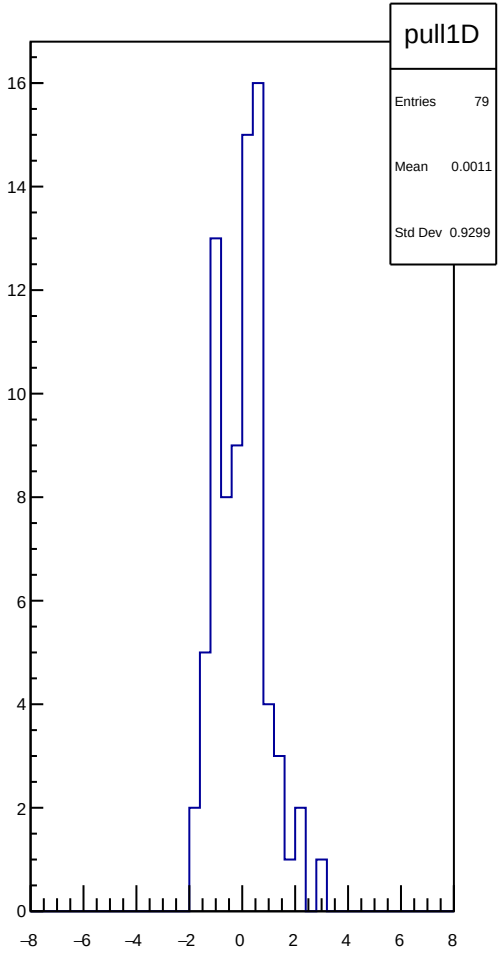

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.388e+04 / 78
p0 191.9 ± 0.1556
350
300
250
200
150

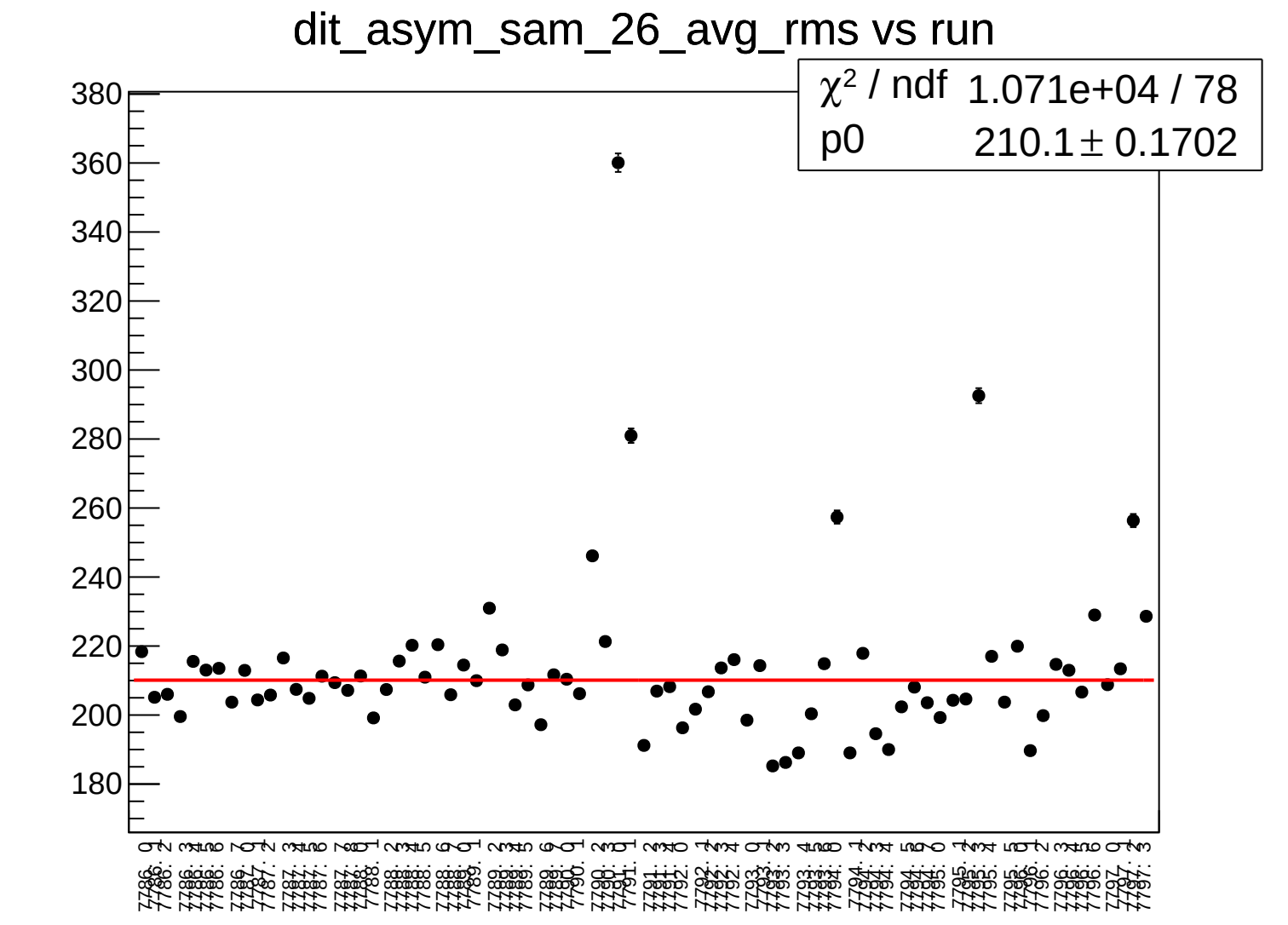

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.43 / 78
p0 −3123 ± 2052
pull
Entries 79
Mean −62.85
Std Dev 0

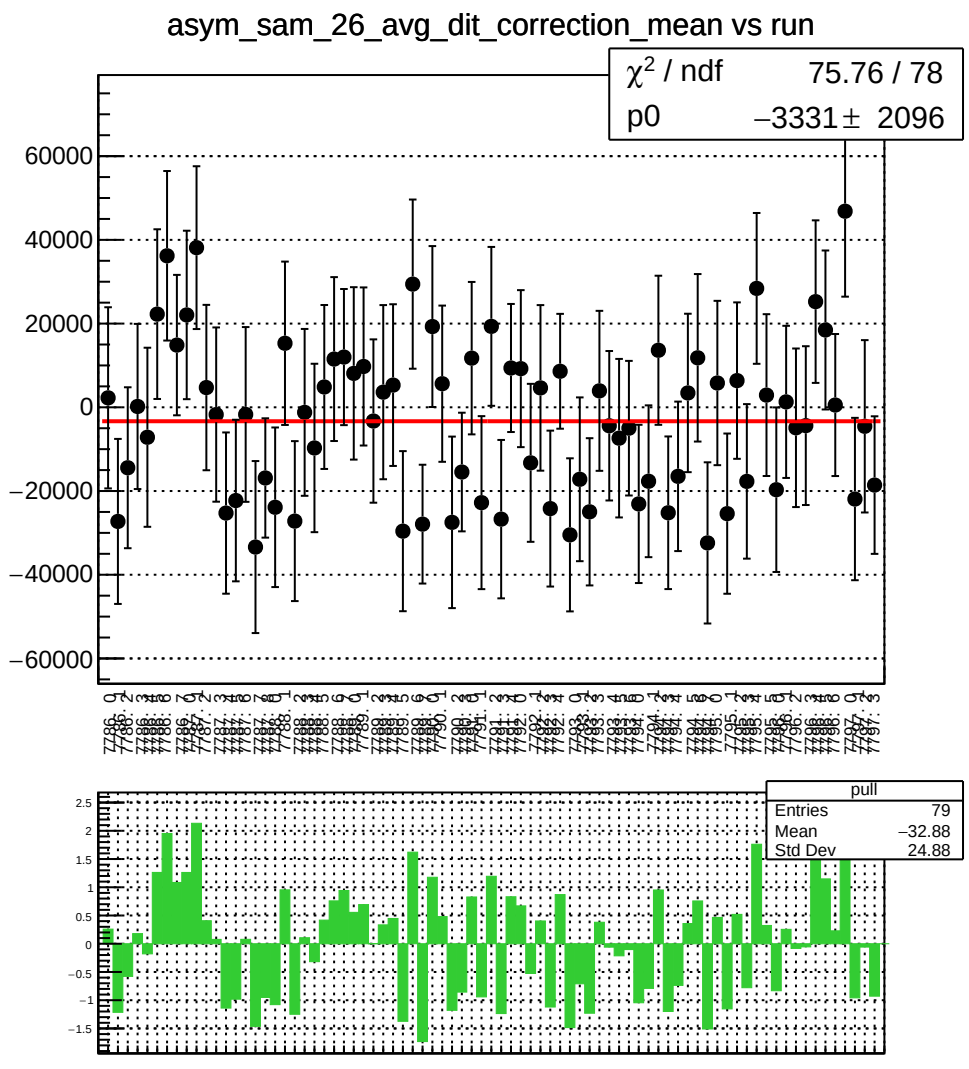

pull1D
Entries 79
Mean 0.01047
Std Dev 0.9836

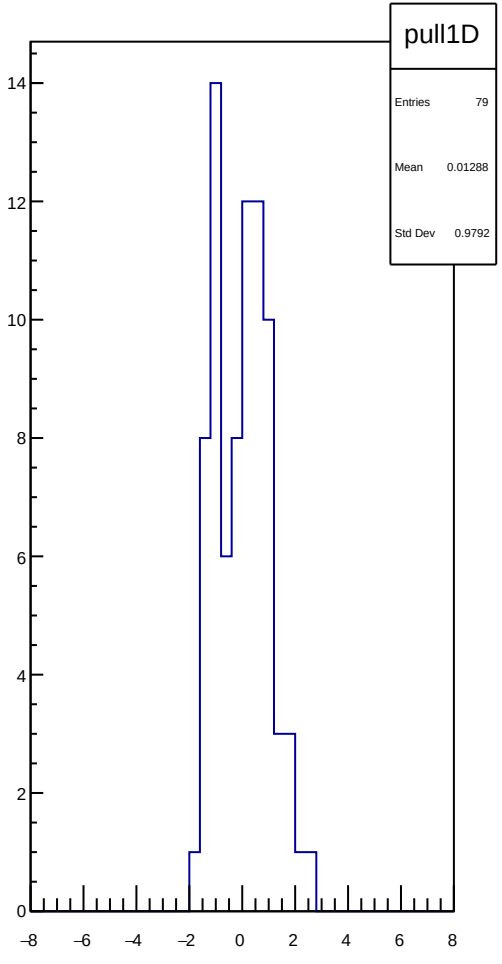

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 3897 / 78
p0 1795 ± 1.451
2100
2000
1900
1800
1700
1600

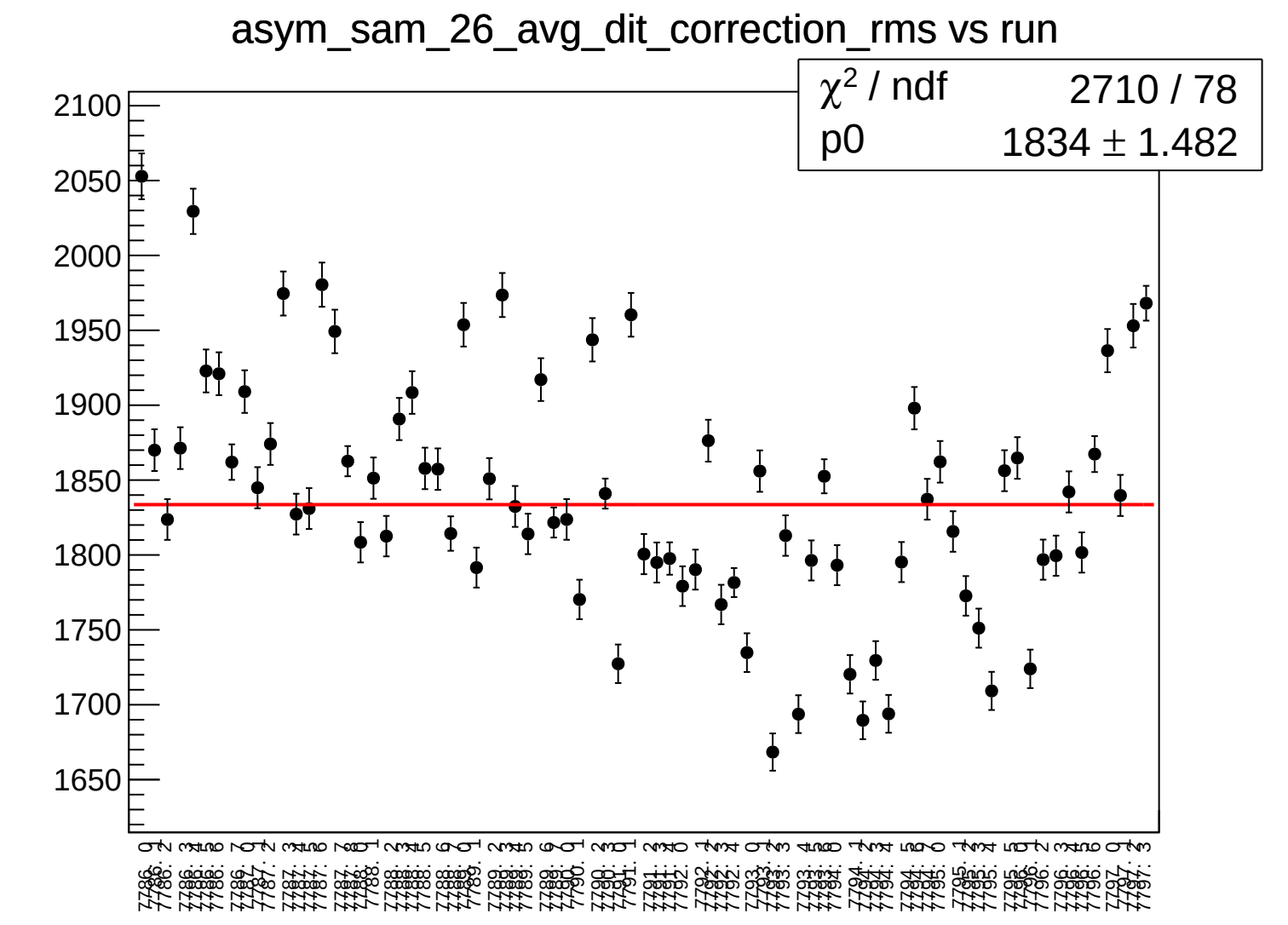

dit_asym_sam_26_avg_mean vs run
χ² / ndf 68.31 / 78
p0 −102.4 ± 240.8
pull
Entries 79
Mean 1891
Std Dev 0

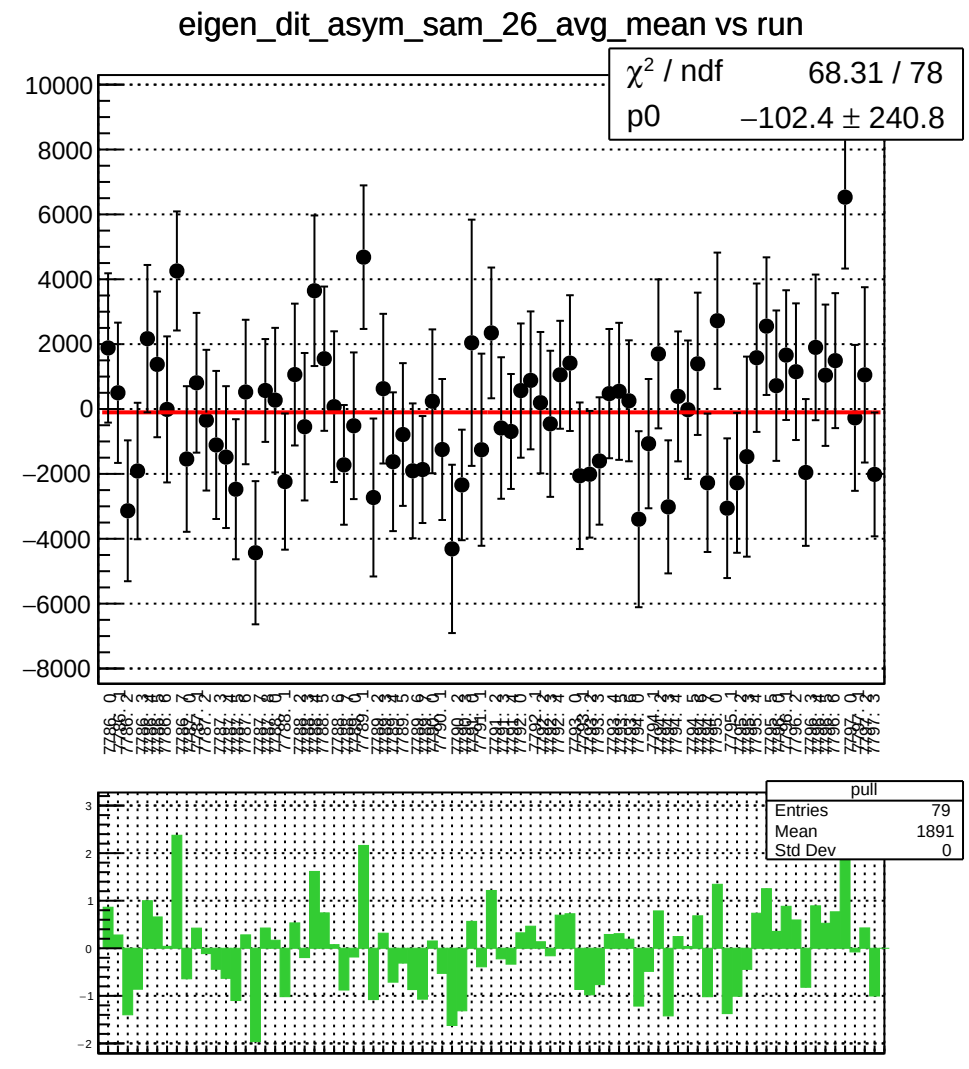

pull1D
Entries 79
Mean 0.0011
Std Dev 0.9299

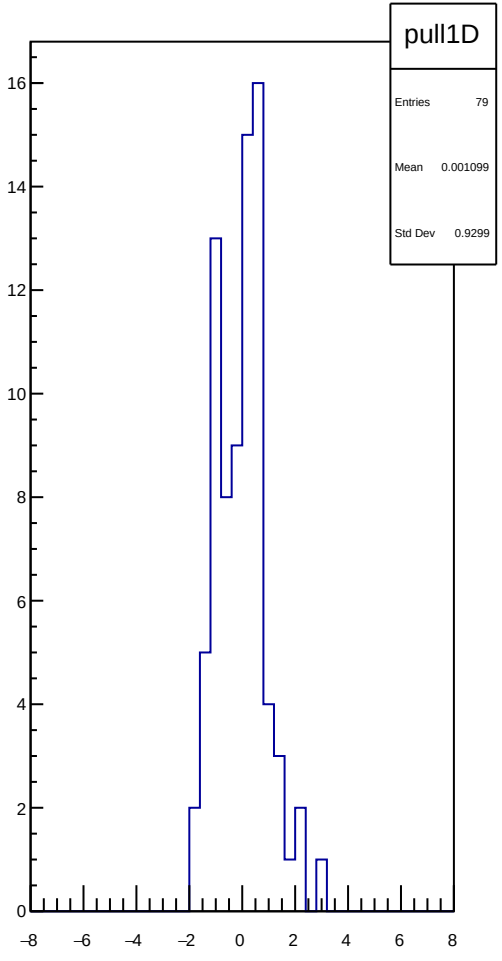

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.071e+04 / 78
p0 210.1 ± 0.1702
380
360
340
320
300
280
260
240
220
200
180

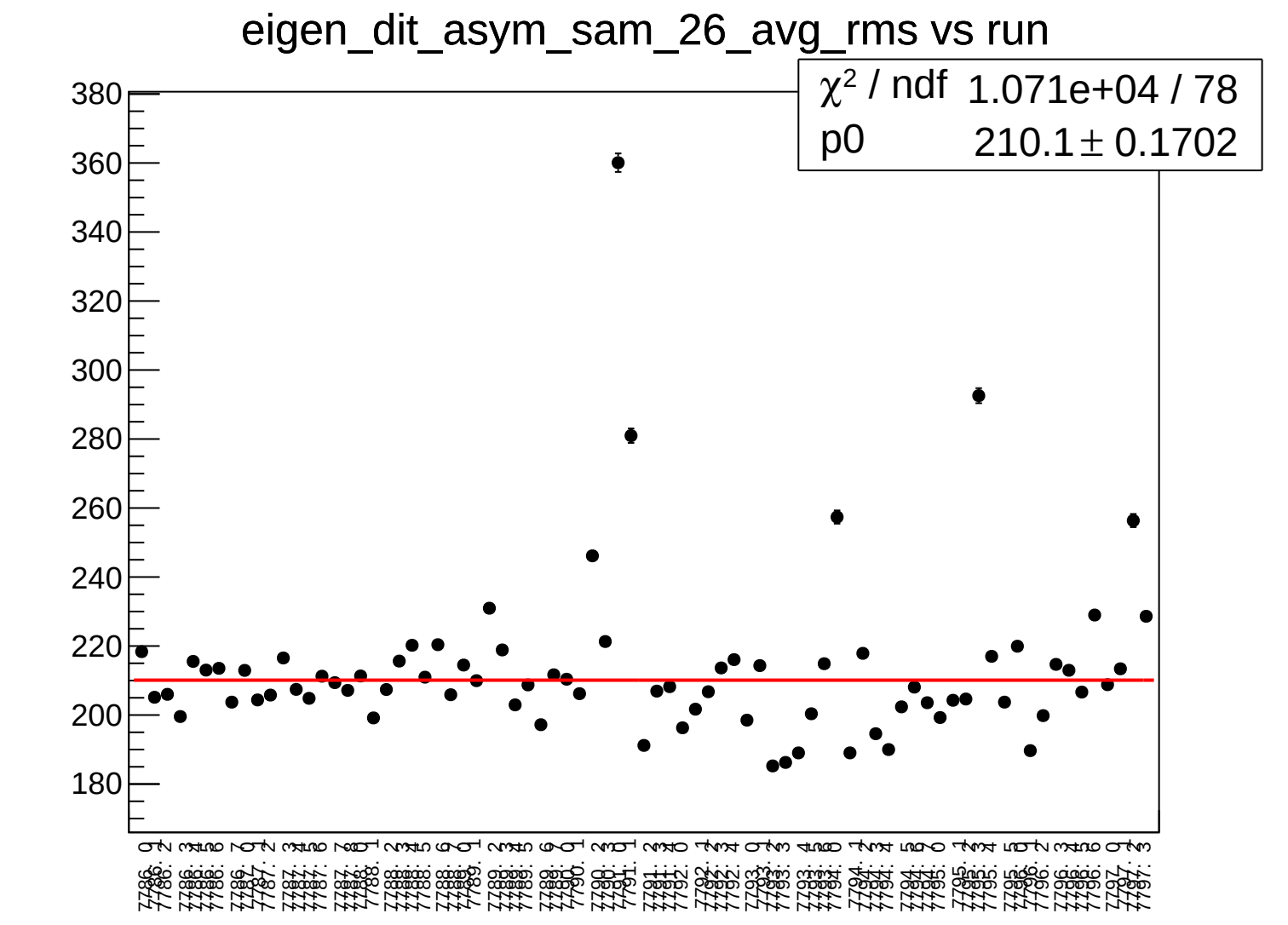

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 75.76 / 78
p0 −3331 ± 2096
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −32.88
Std Dev 24.88
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

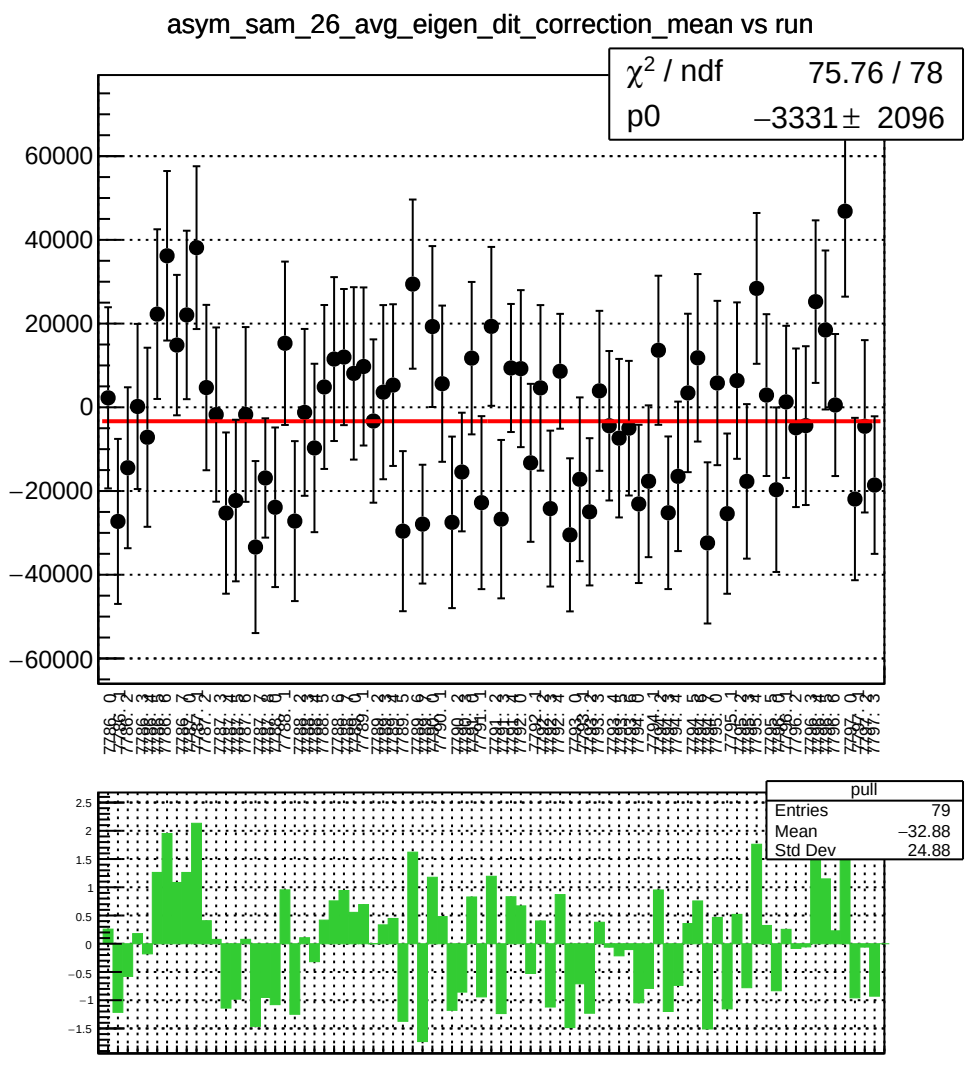

pull1D
Entries 79
Mean 0.01288
Std Dev 0.9792
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

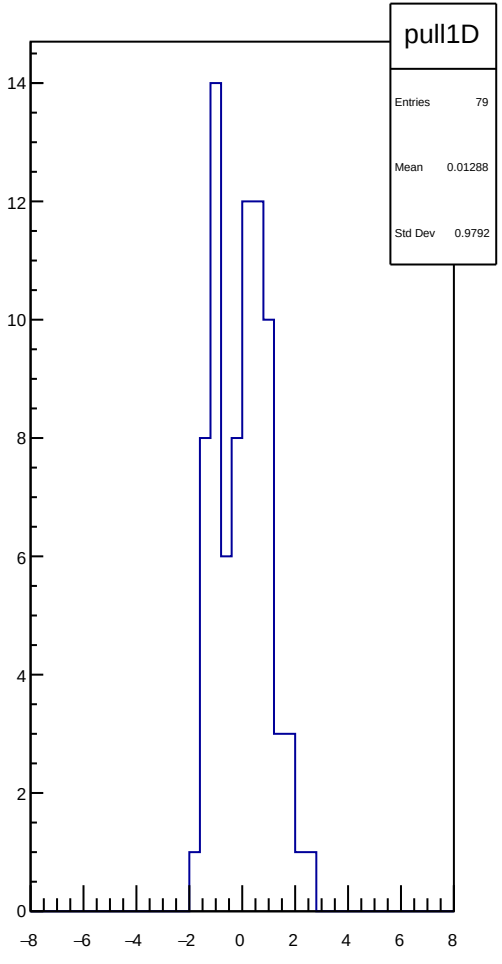

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 2710 / 78
p0 1834 ± 1.482
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

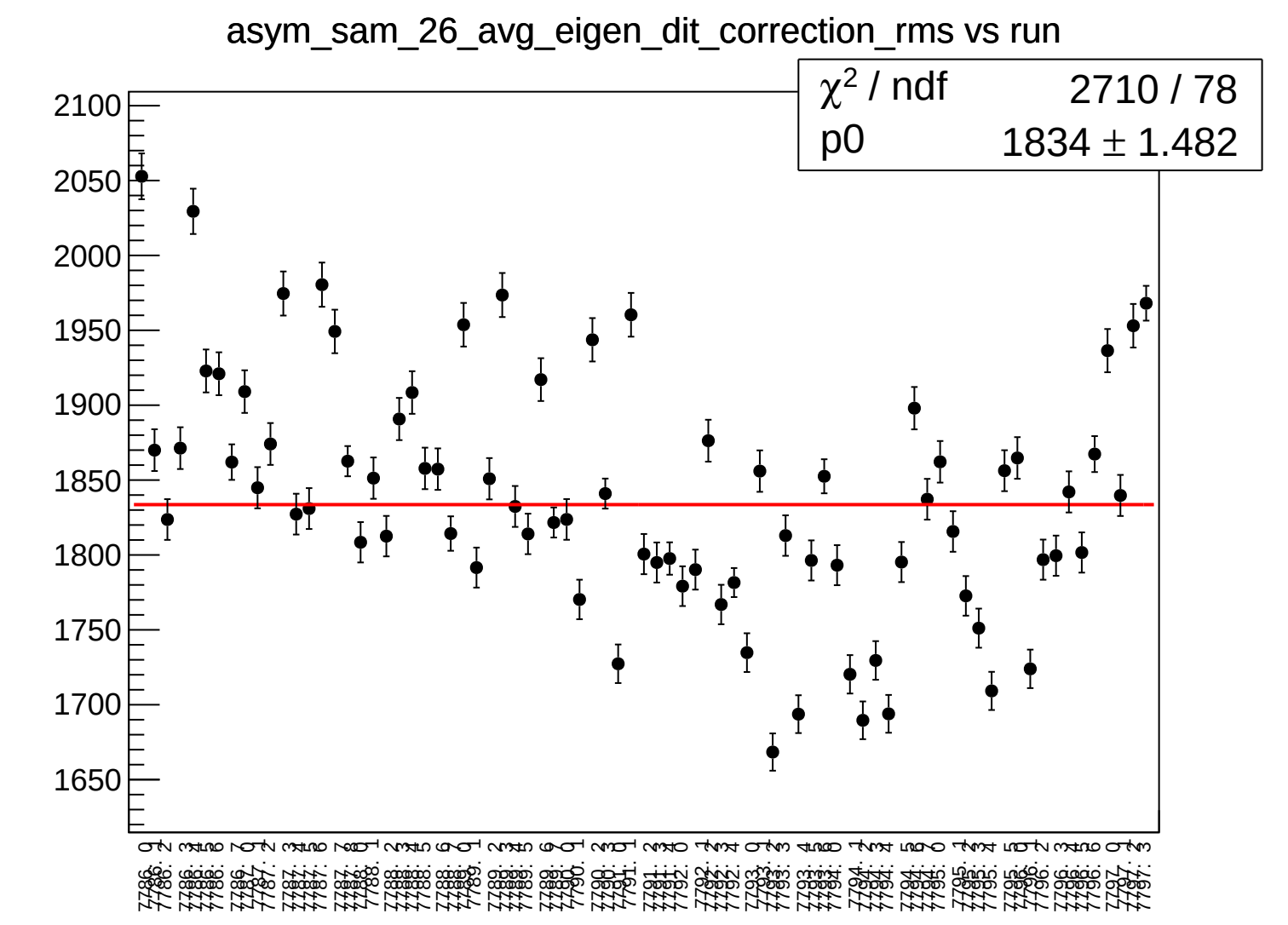

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 68.31 / 78
p0 −102.4 ± 240.8
pull
Entries 79
Mean 1891
Std Dev 0

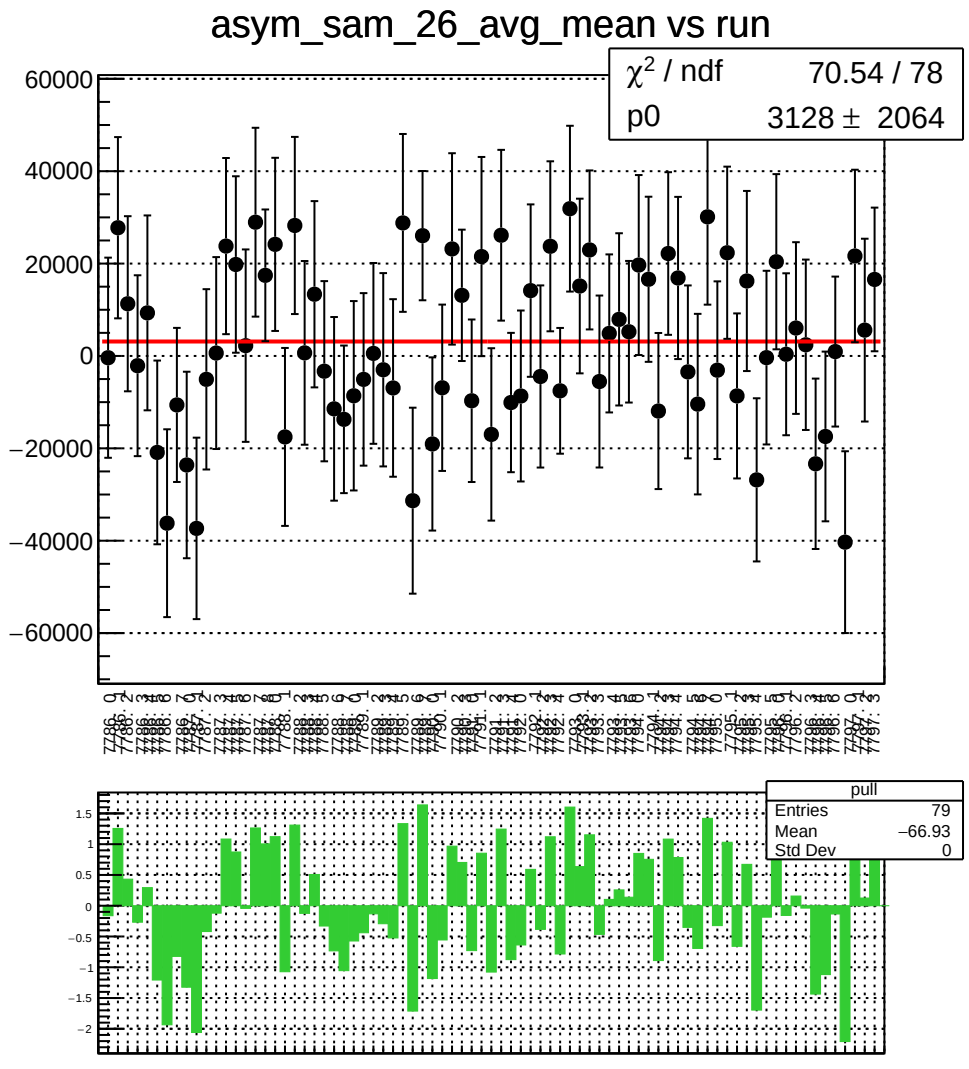

pull1D
Entries 79
Mean 0.001099
Std Dev 0.9299

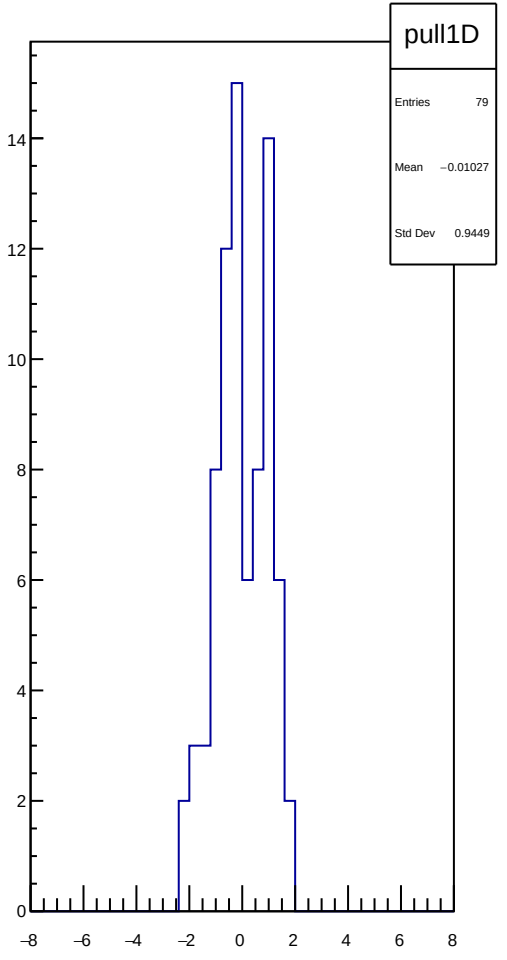

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.071e+04 / 78
p0 210.1 ± 0.1702
380
360
340
320
300
280
260
240
220
200
180

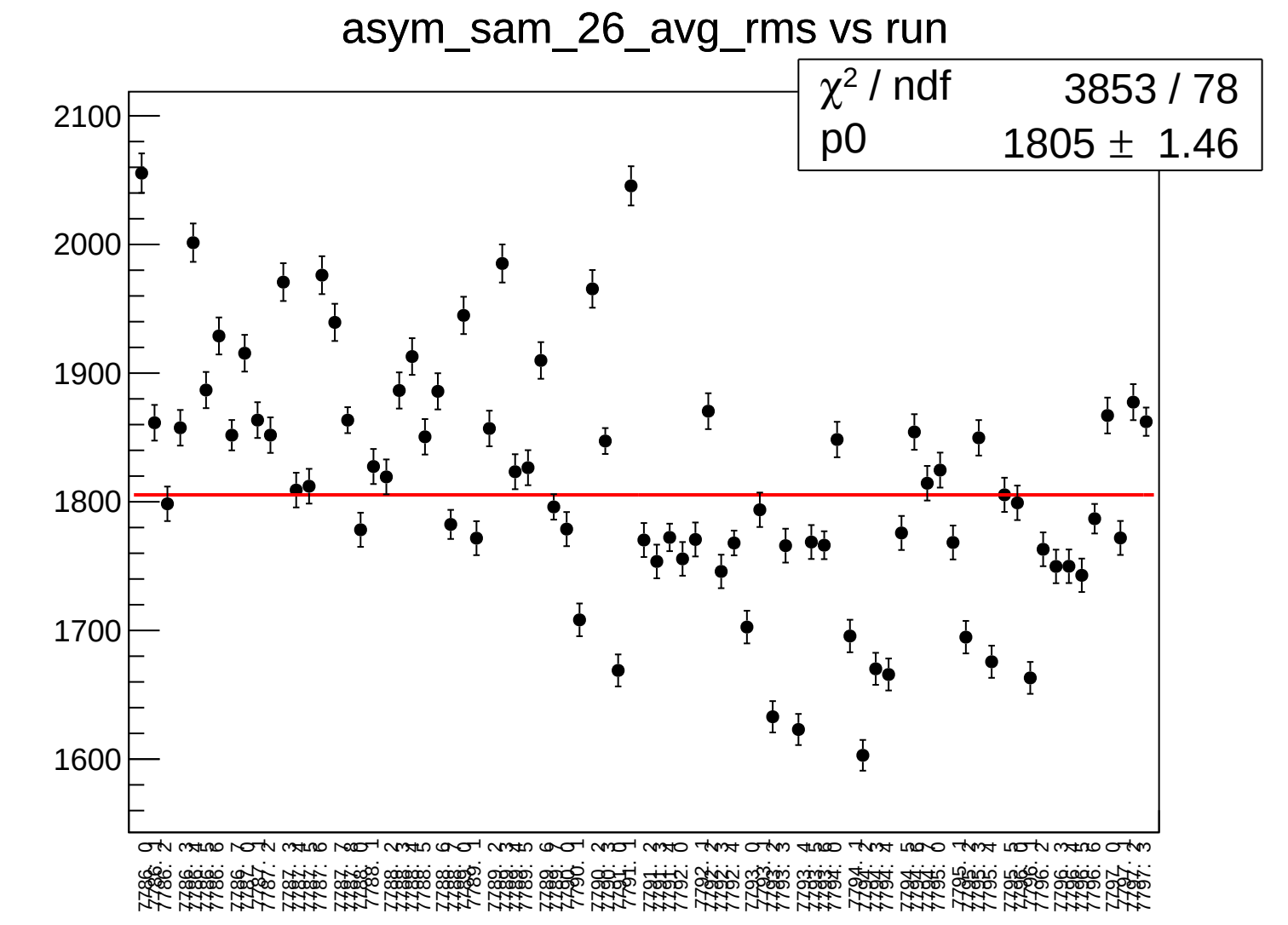

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.76 / 78
p0 −3331 ± 2096
pull
Entries 79
Mean −32.88
Std Dev 24.88

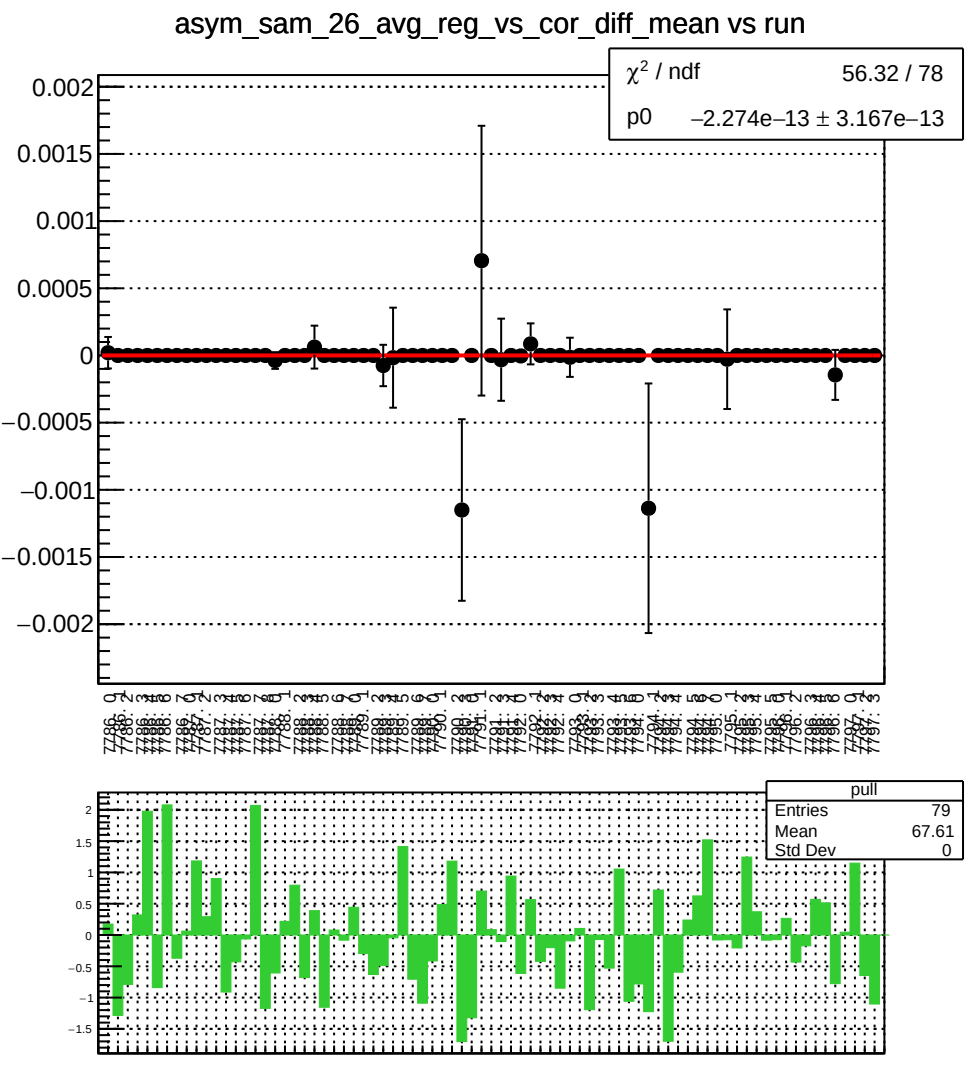

pull1D
Entries 79
Mean 0.01288
Std Dev 0.9792

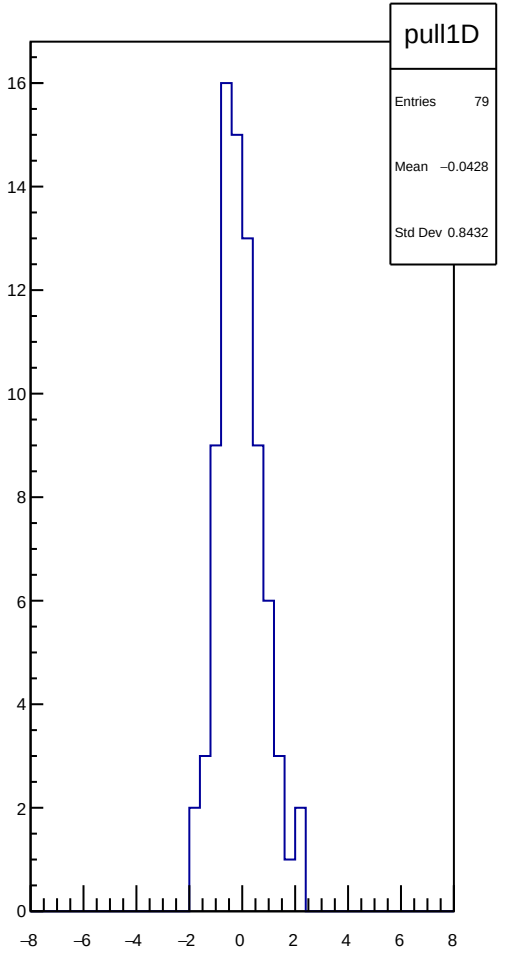

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 2710 / 78
p0 1834 ± 1.482
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

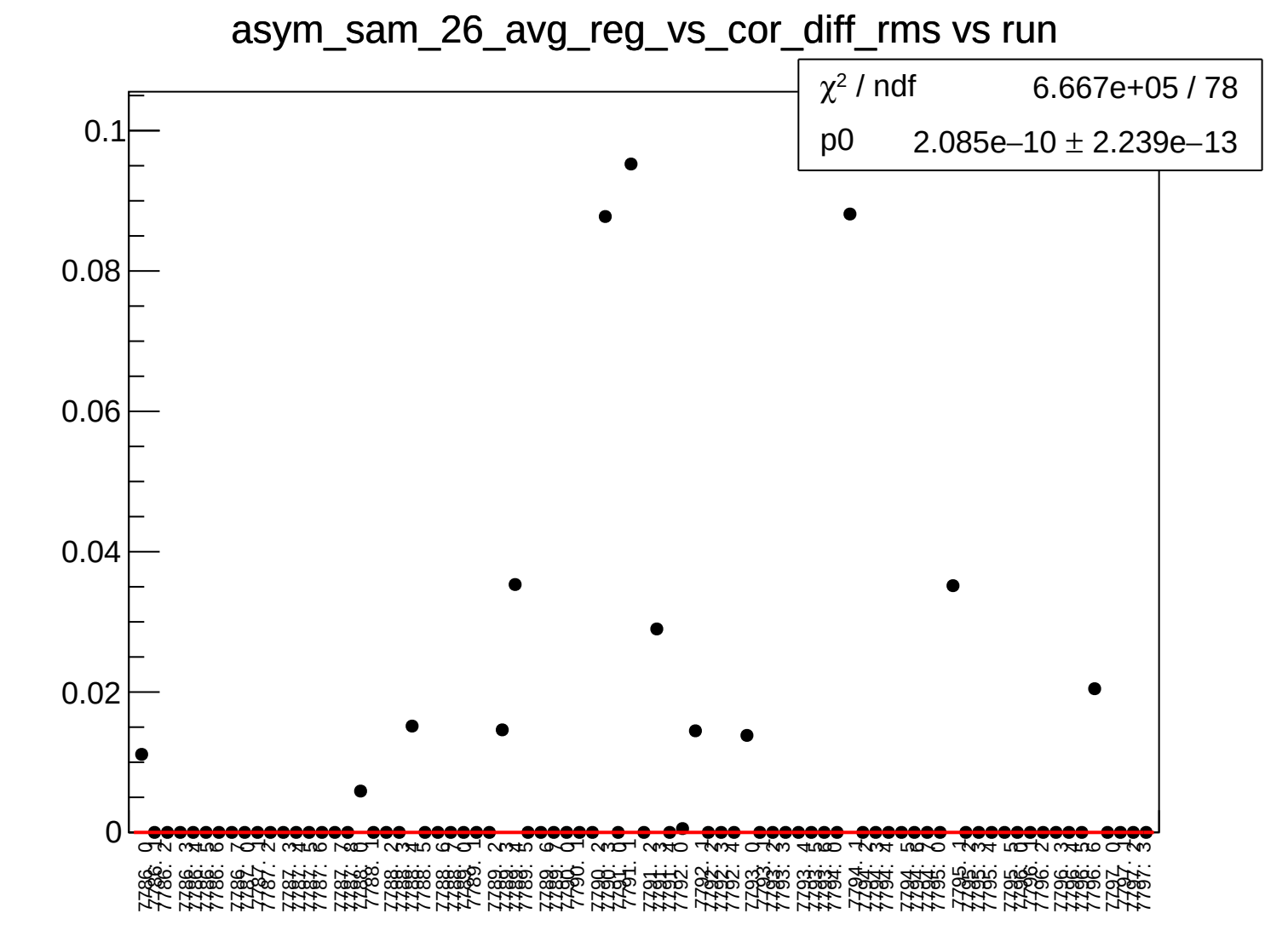

asym_sam_26_avg_mean vs run
χ² / ndf 70.54 / 78
p0 3128 ± 2064
pull
Entries 79
Mean −66.93
Std Dev 0

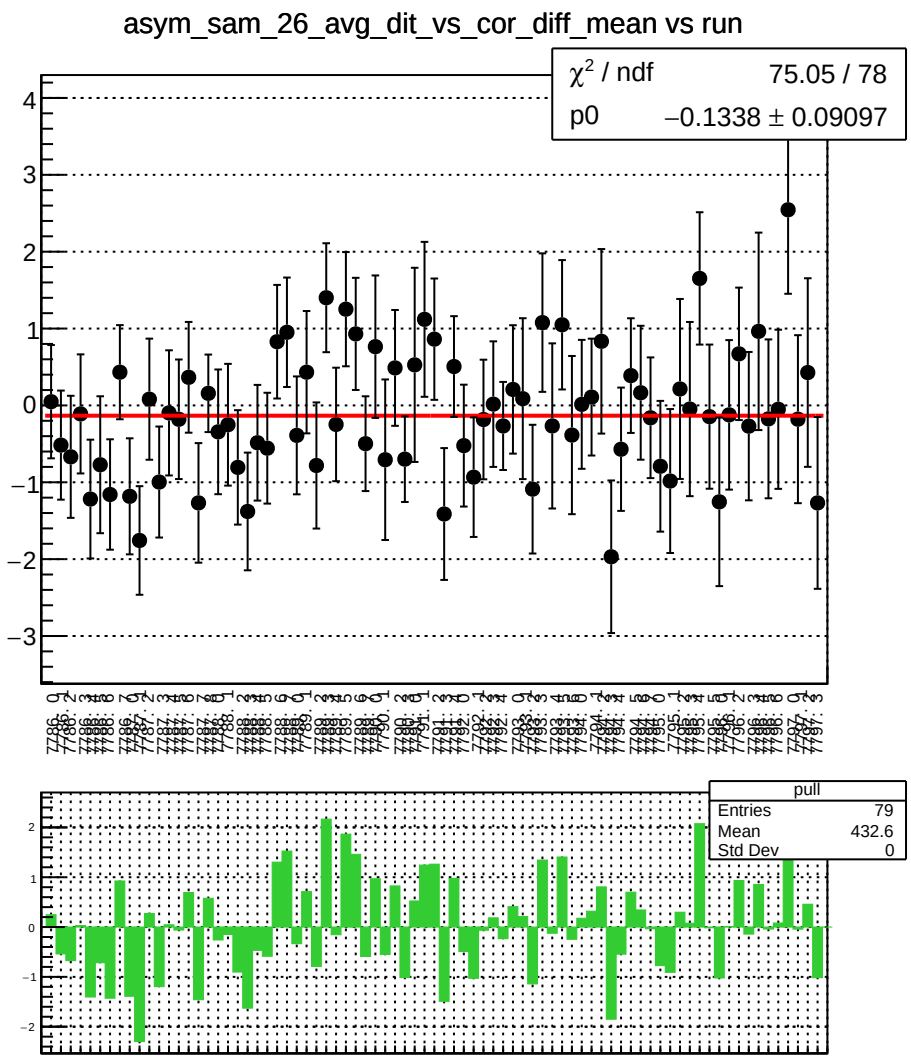

pull1D
Entries 79
Mean −0.01027
Std Dev 0.9449

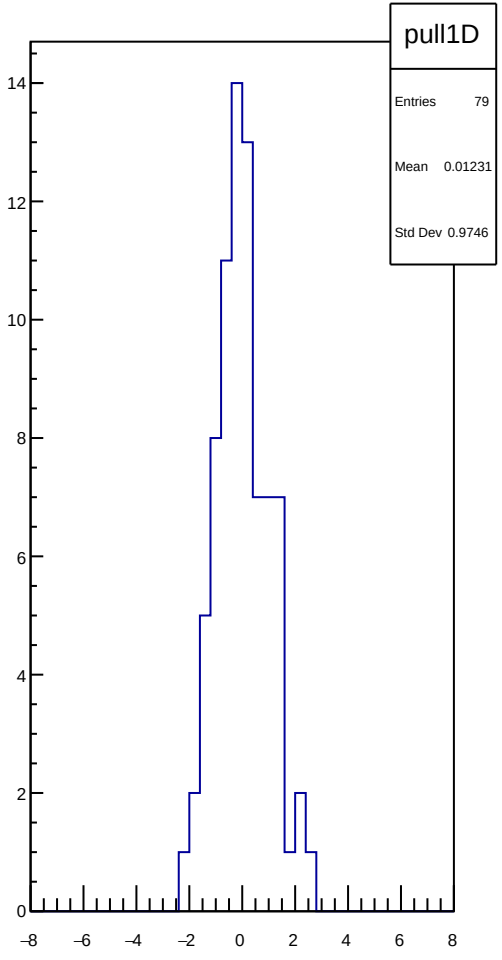

asym_sam_26_avg_rms vs run
χ² / ndf 3853 / 78
p0 1805 ± 1.46
2100
2000
1900
1800
1700
1600

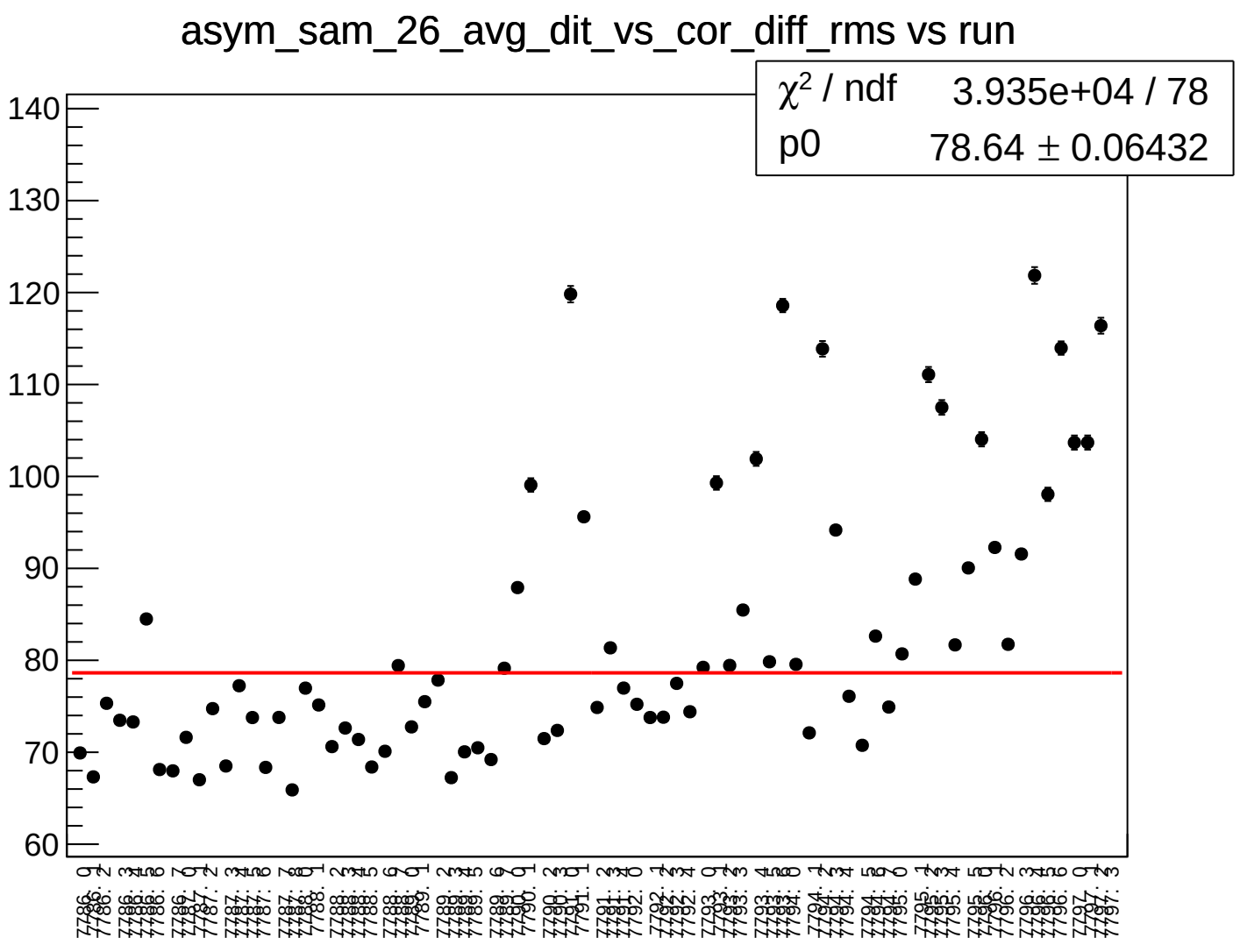

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 56.32 / 78
p0 −2.274e−13 ± 3.167e−13
pull
Entries 79
Mean 67.61
Std Dev 0

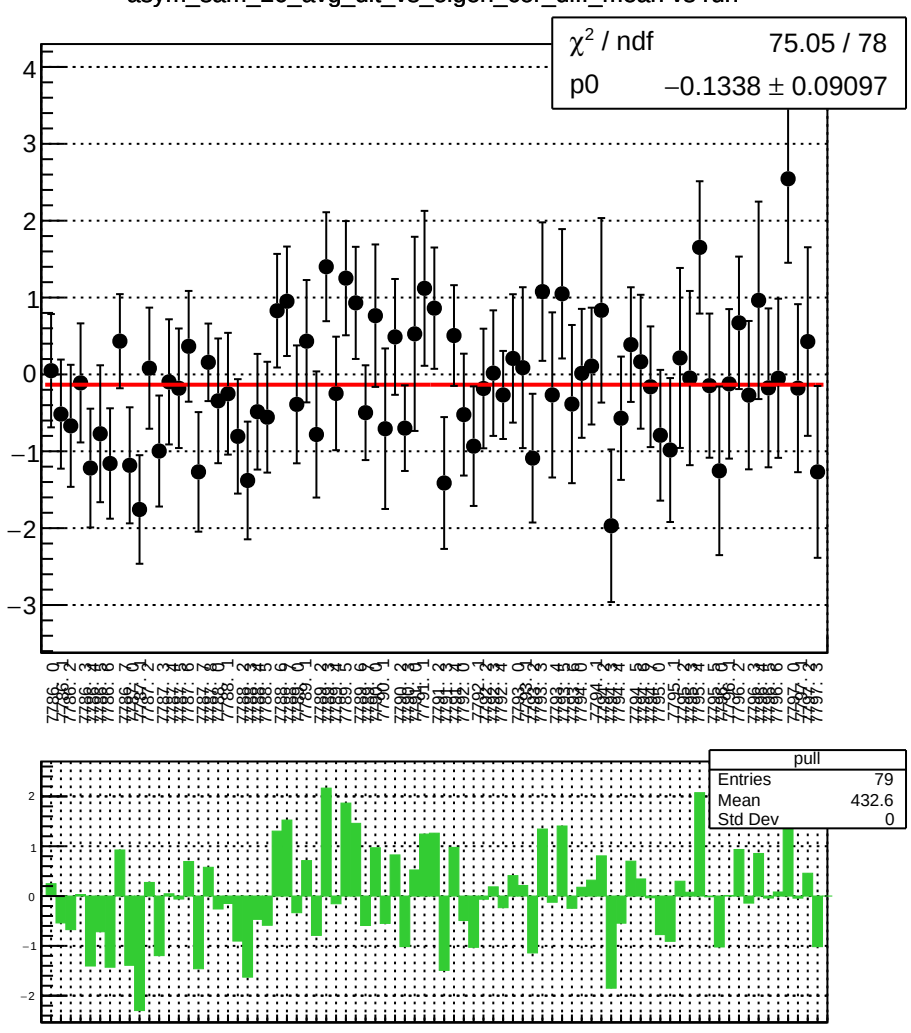

pull1D
Entries 79
Mean −0.0428
Std Dev 0.8432

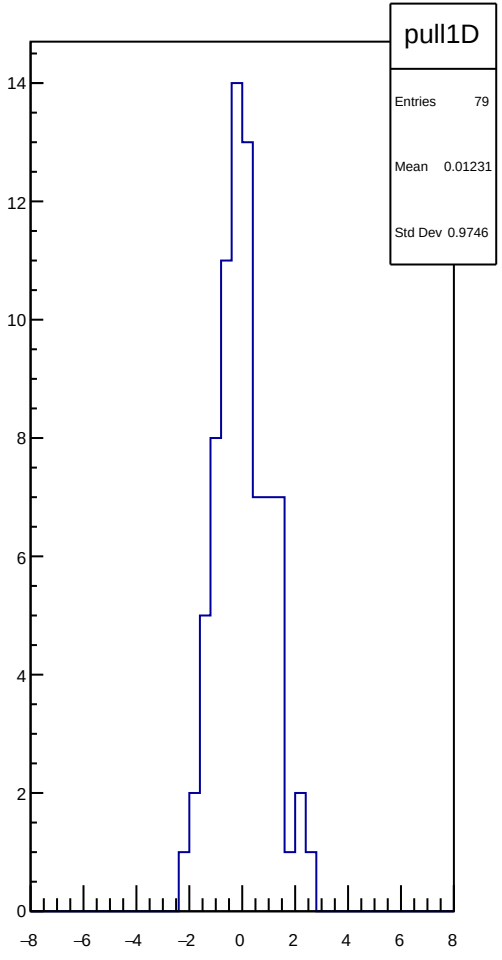

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.667e+05 / 78
p0 2.085e−10 ± 2.239e−13
0.1
0.08
0.06
0.04
0.02
0

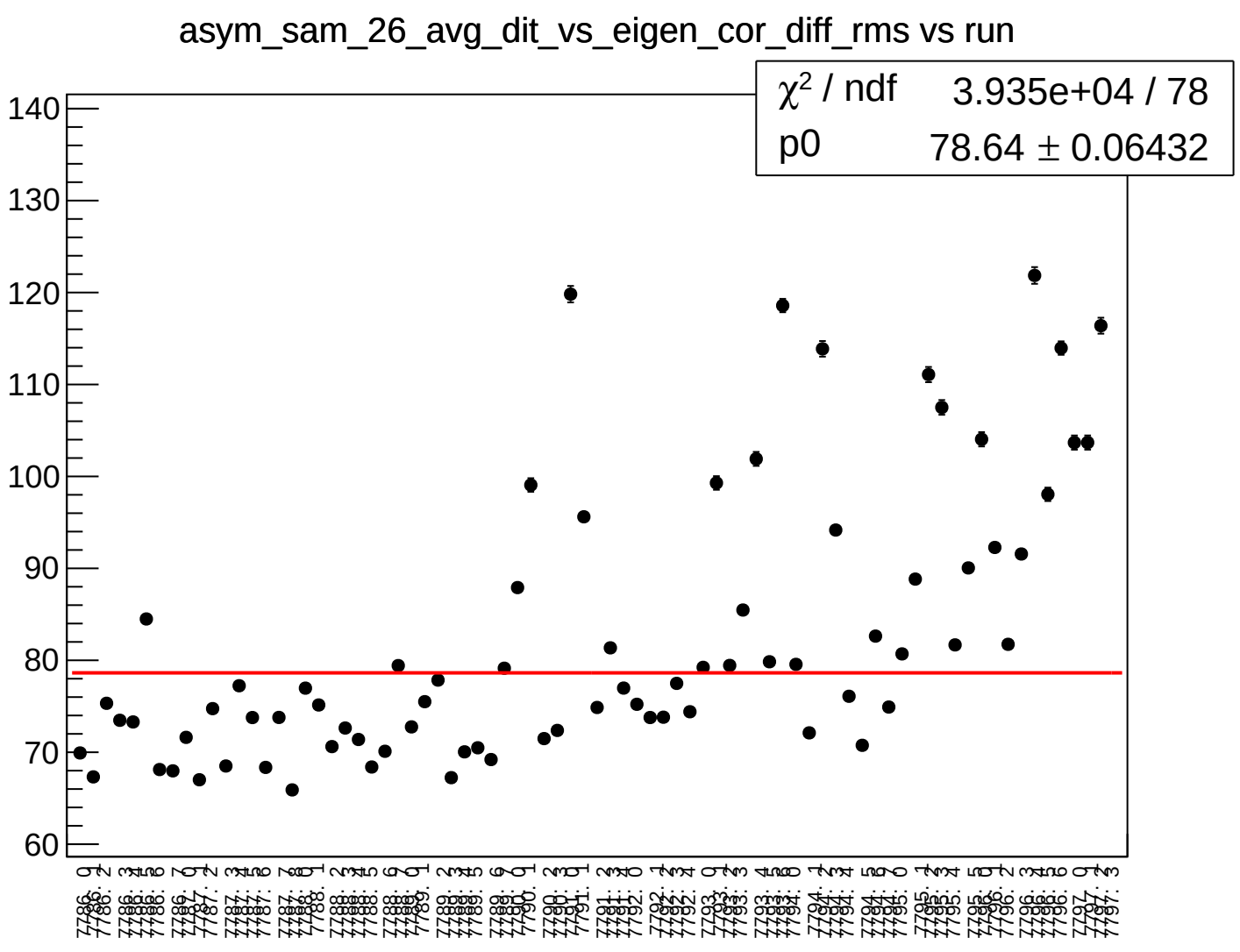

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.05 / 78
p0 −0.1338 ± 0.09097
pull
Entries 79
Mean 432.6
Std Dev 0

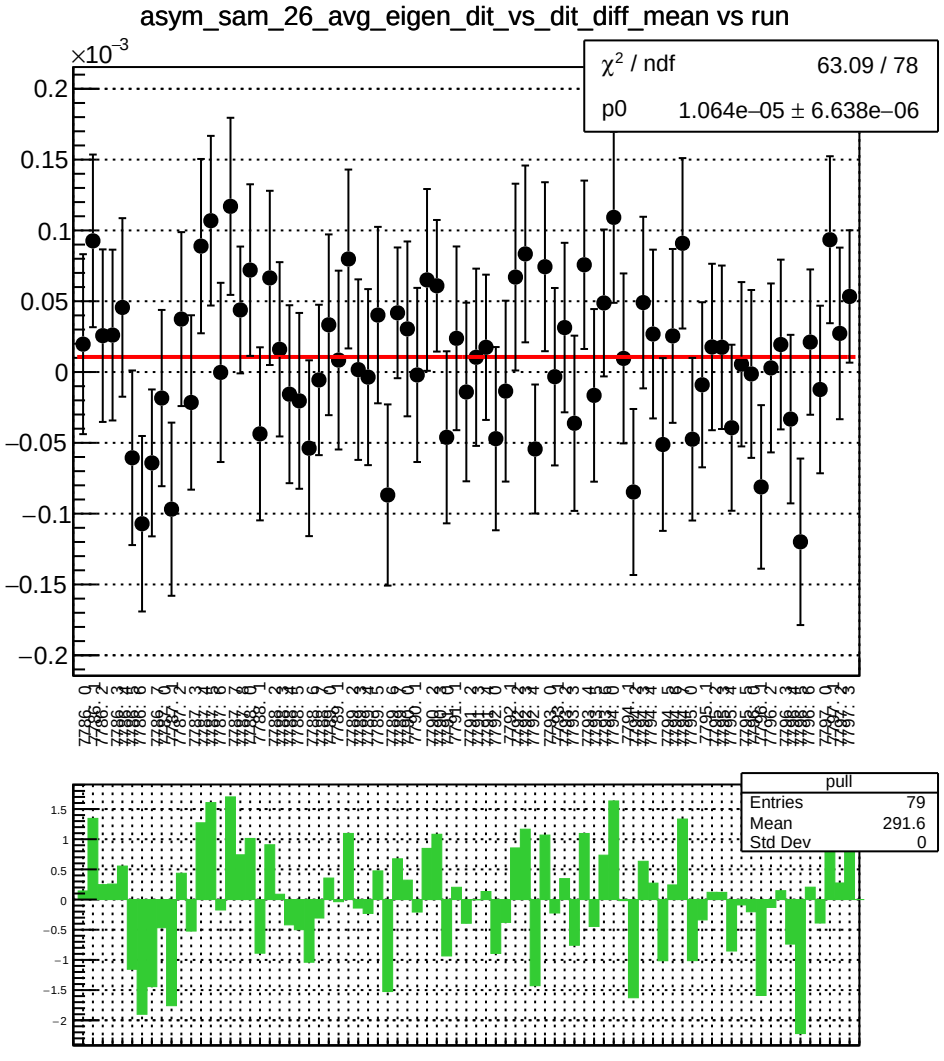

pull1D
Entries 79
Mean 0.01231
Std Dev 0.9746

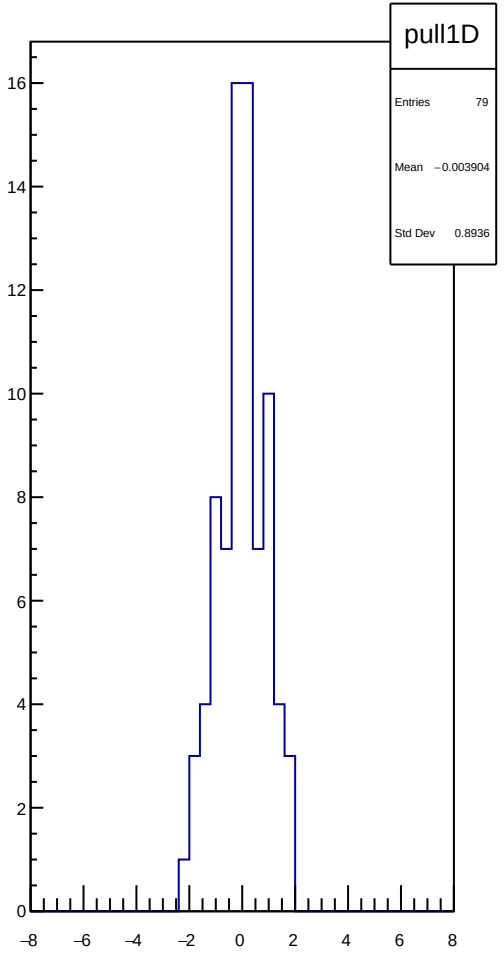

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.935e+04 / 78
p0 78.64 ± 0.06432
140
130
120
110
100
90
80
70
60

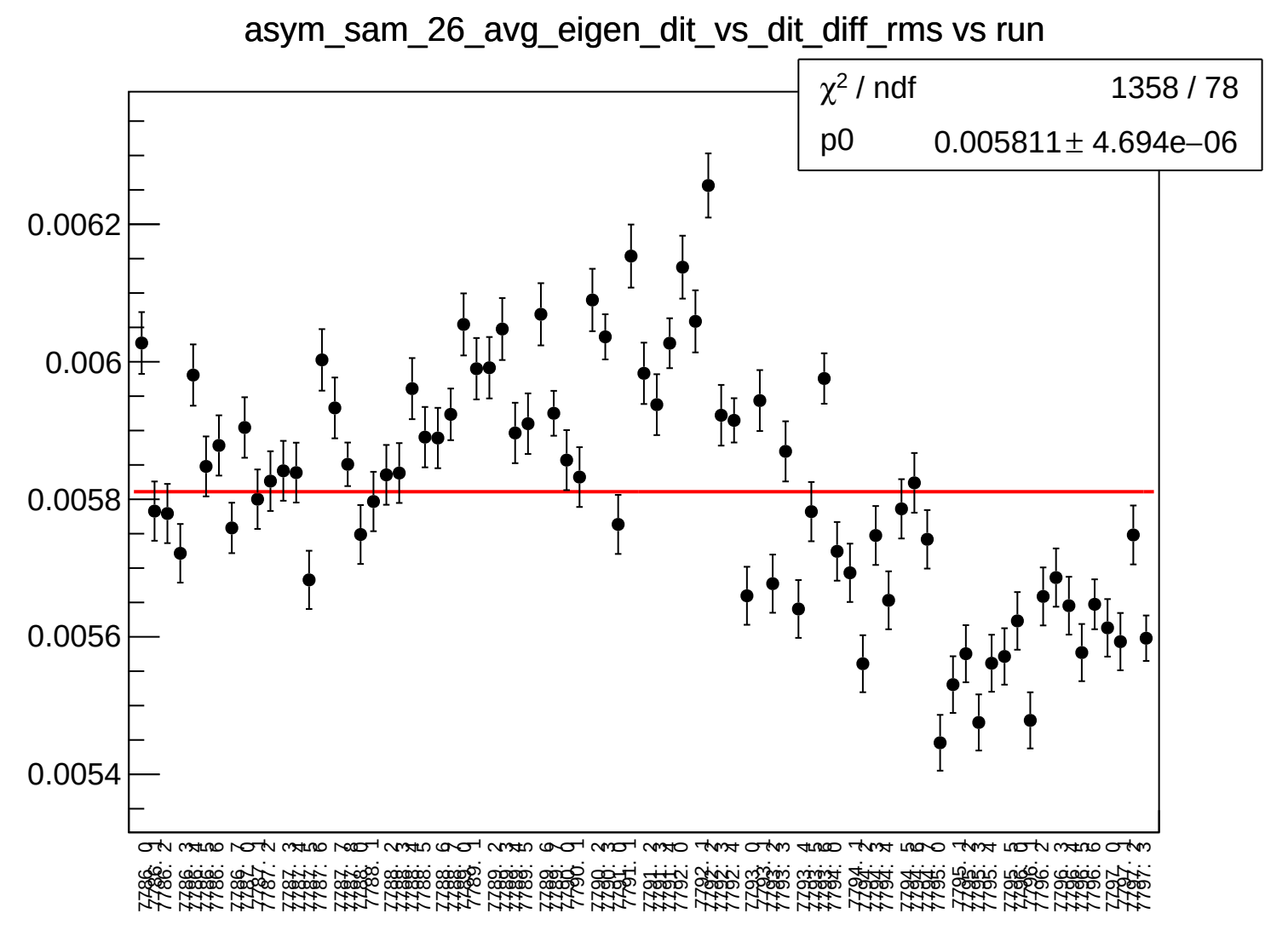

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.05 / 78
p0 −0.1338 ± 0.09097
pull
Entries 79
Mean 432.6
Std Dev 0

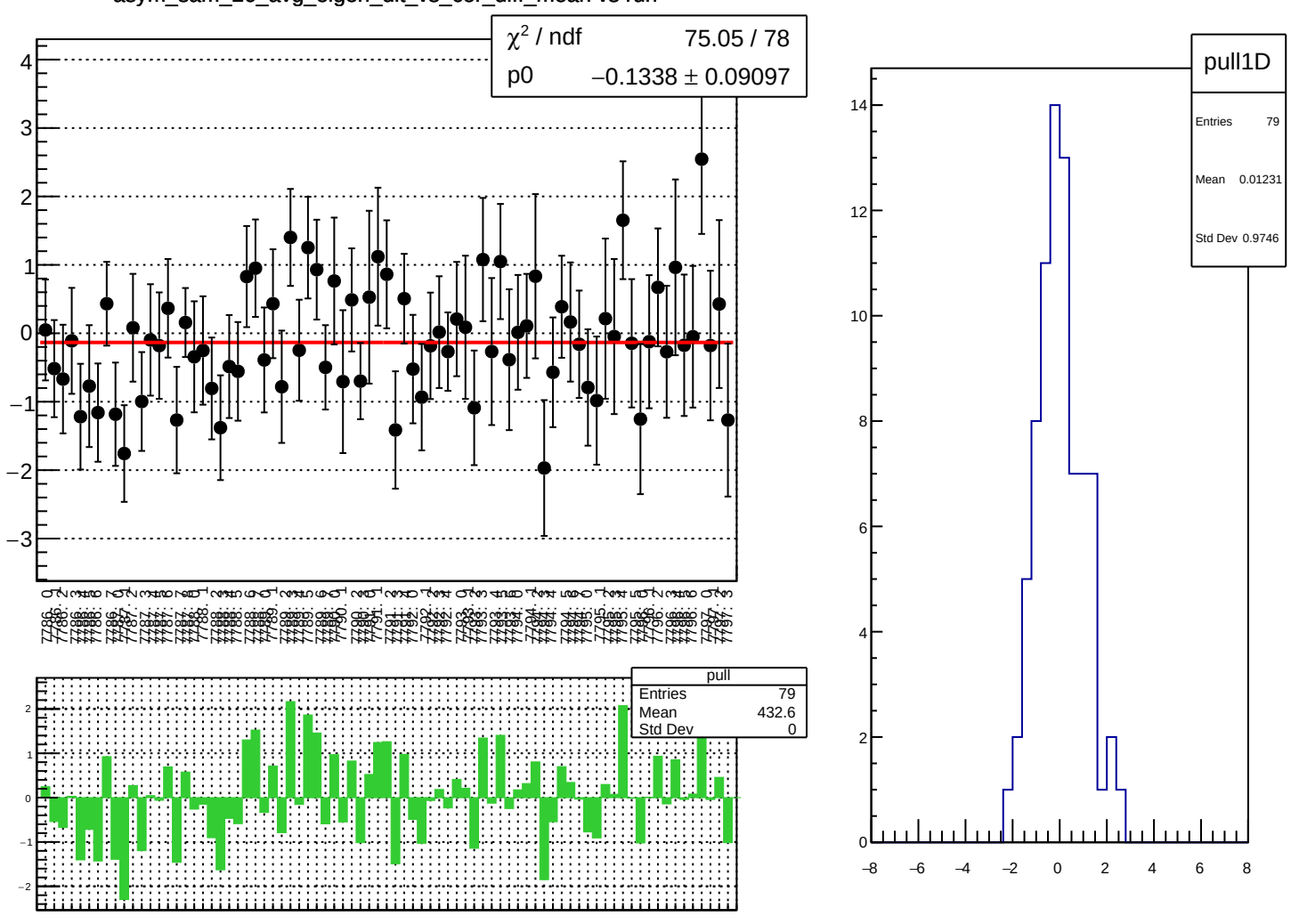

pull1D
Entries 79
Mean 0.01231
Std Dev 0.9746

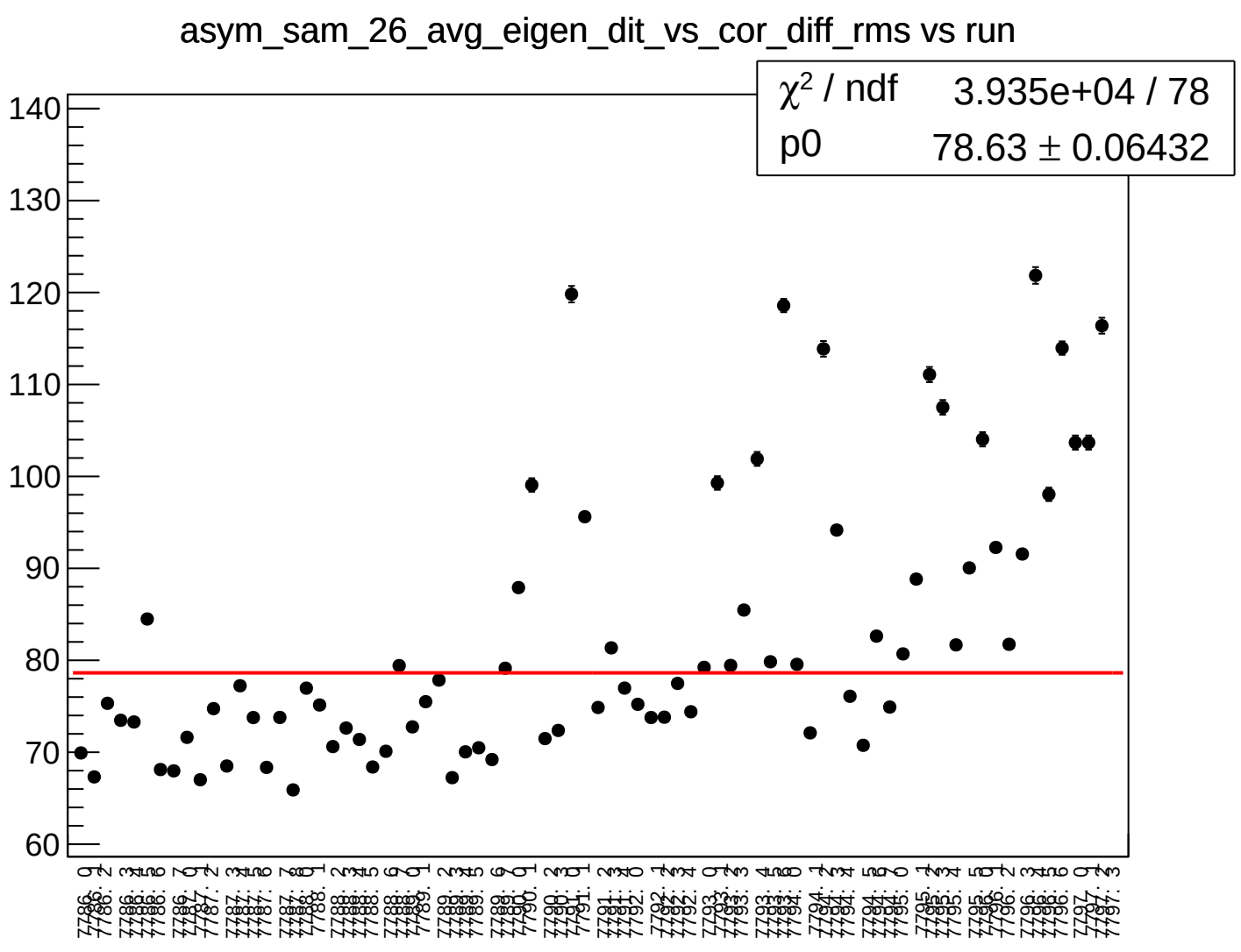

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.935e+04 / 78
p0 78.64 ± 0.06432
140
130
120
110
100
90
80
70
60

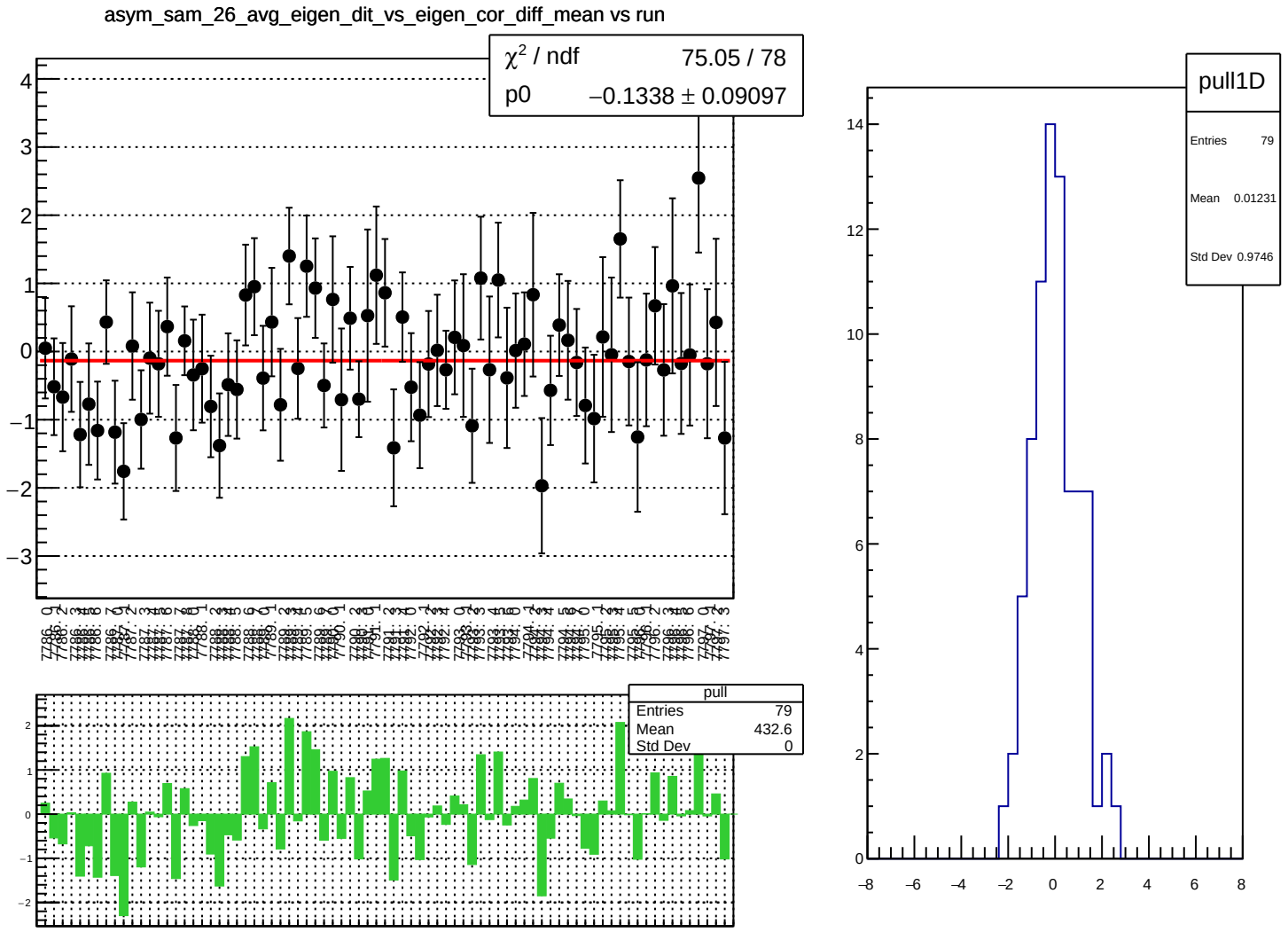

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.09 / 78
p0 1.064e−05 ± 6.638e−06
pull
Entries 79
Mean 291.6
Std Dev 0

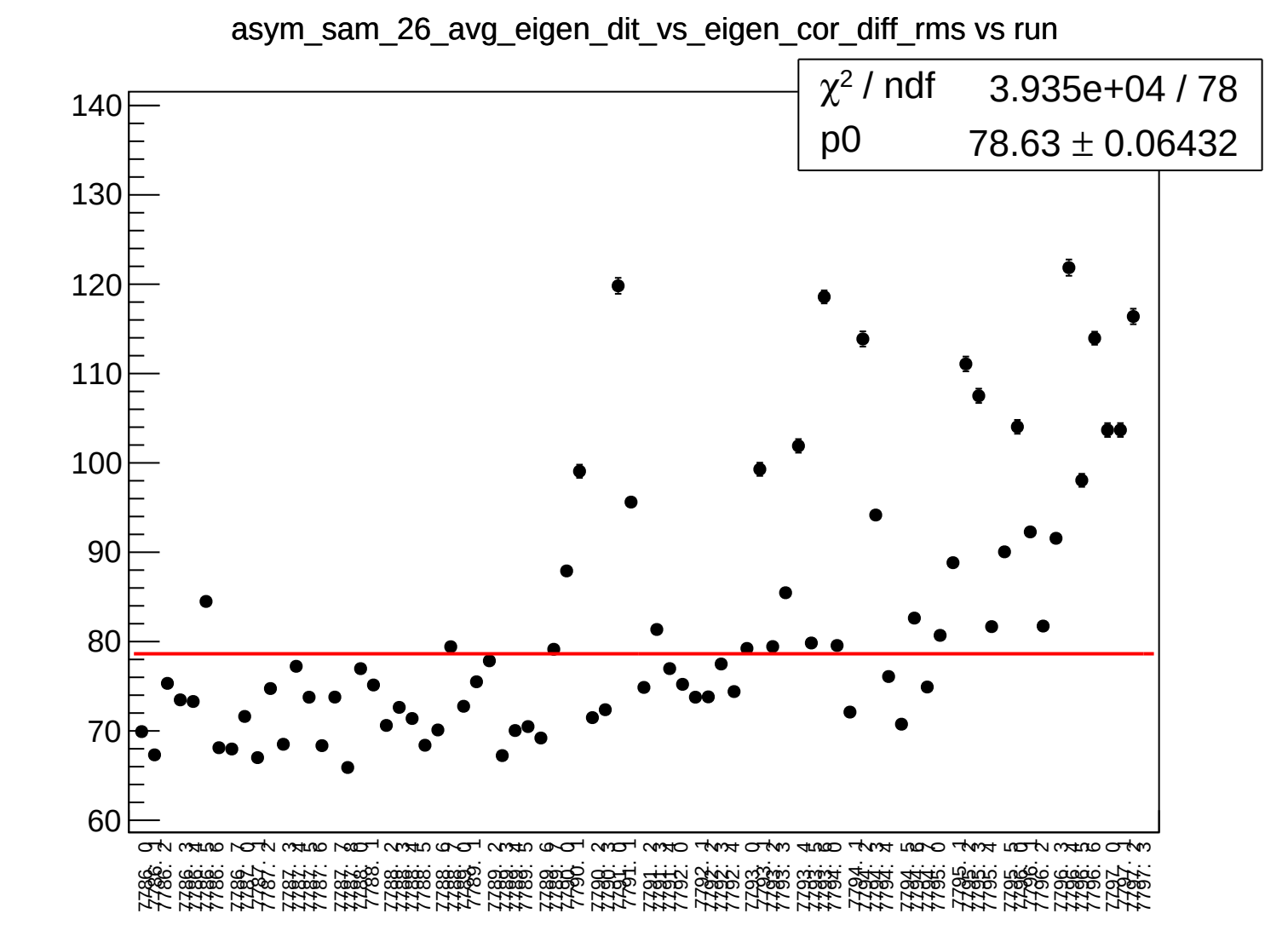

pull1D
Entries 79
Mean −0.003904
Std Dev 0.8936

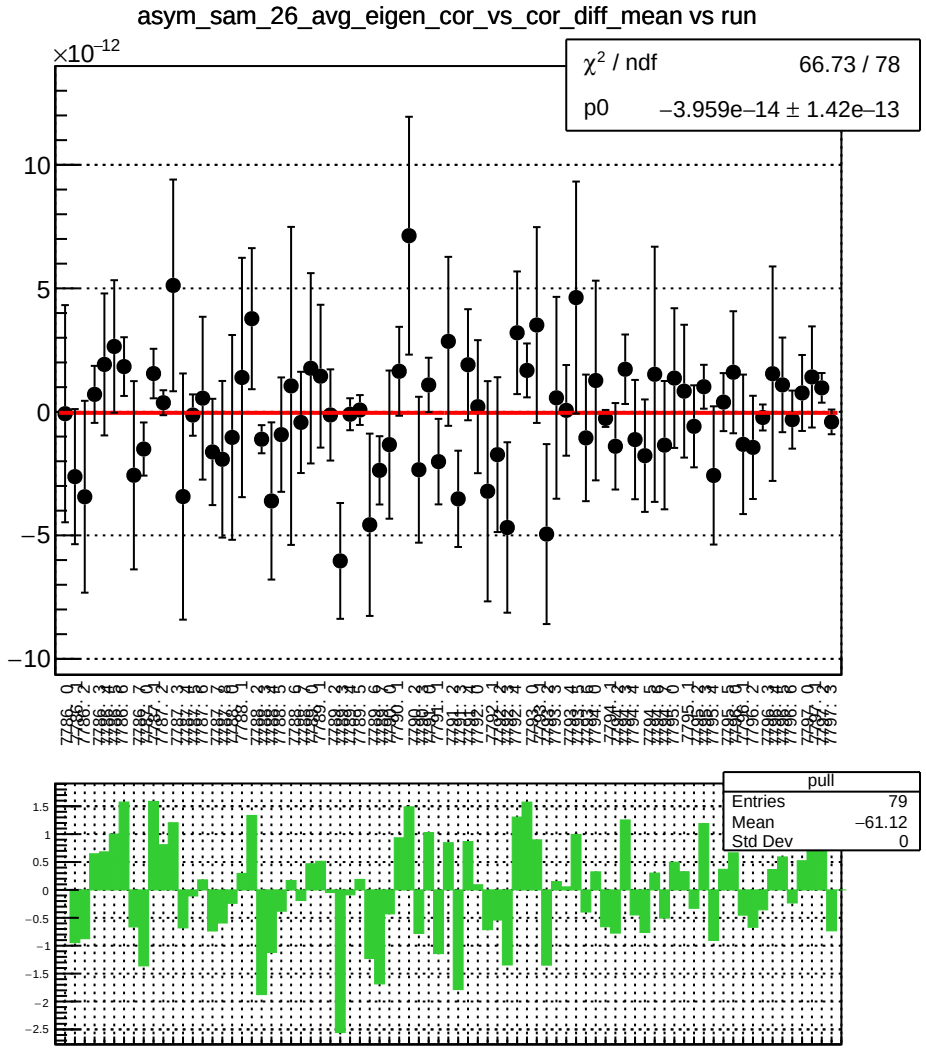

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1358 / 78
p0 0.005811 ± 4.694e−06
0.0062
0.006
0.0058
0.0056
0.0054

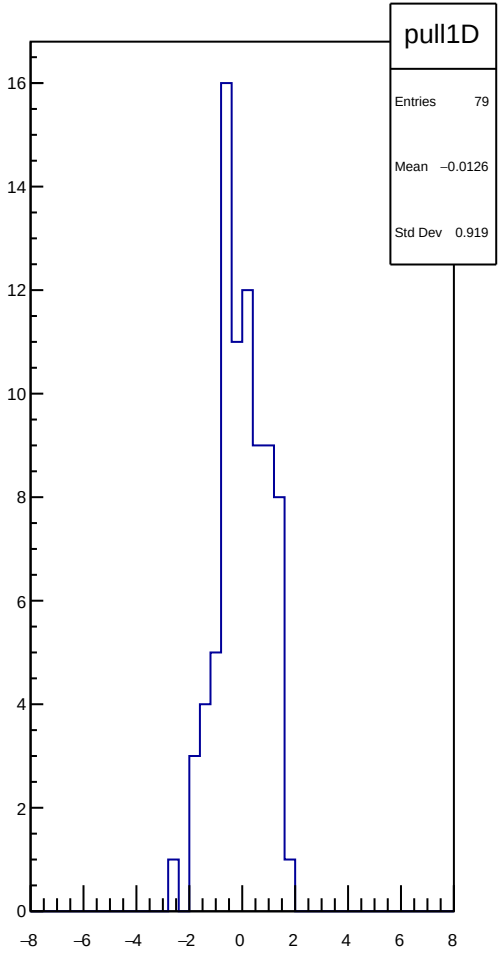

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.05 / 78
p0 −0.1338 ± 0.09097
pull
Entries 79
Mean 432.6
Std Dev 0
pull1D
Entries 79
Mean 0.01231
Std Dev 0.9746

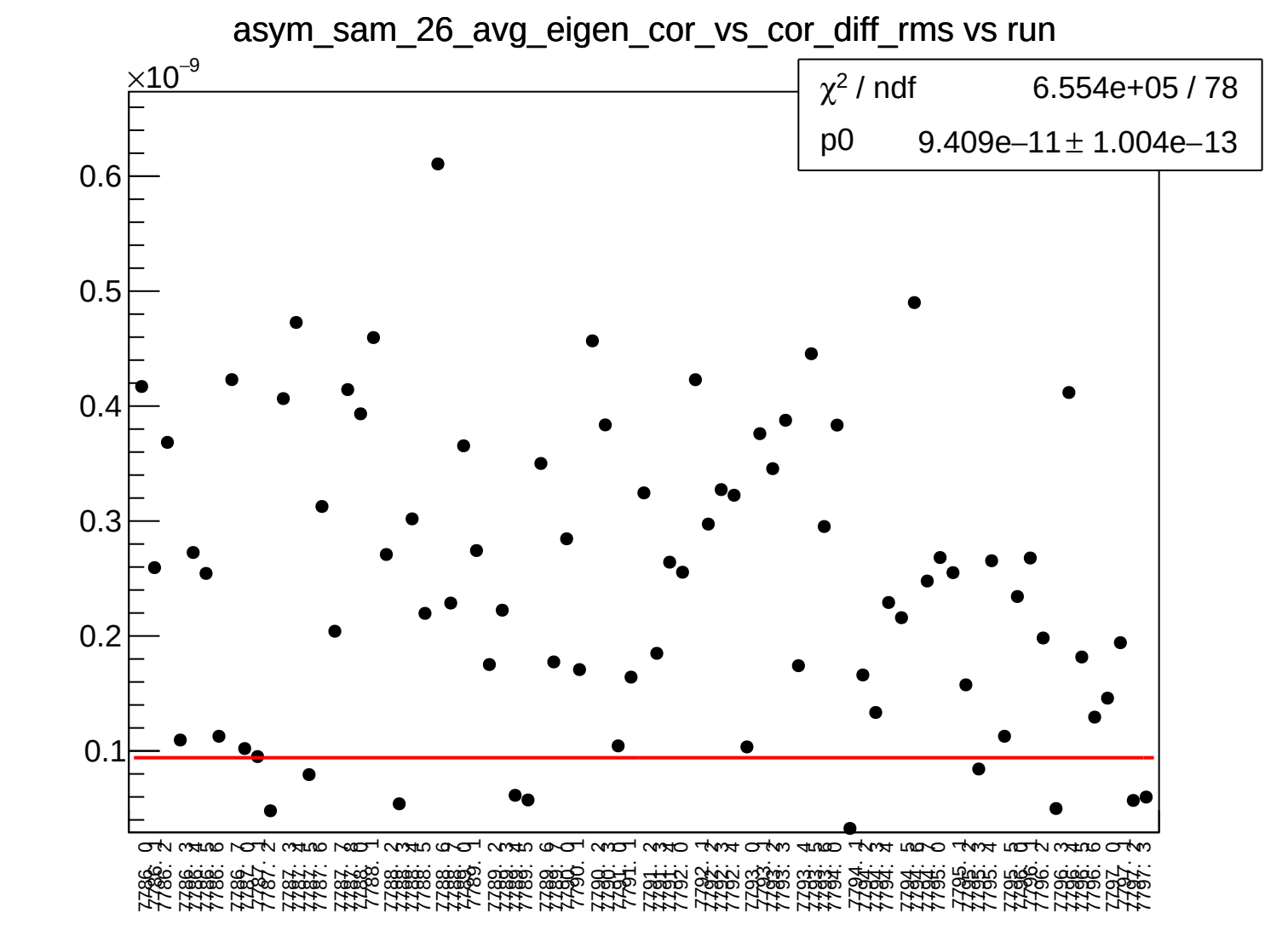

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.935e+04 / 78
p0 78.63 ± 0.06432
140
130
120
110
100
90
80
70
60

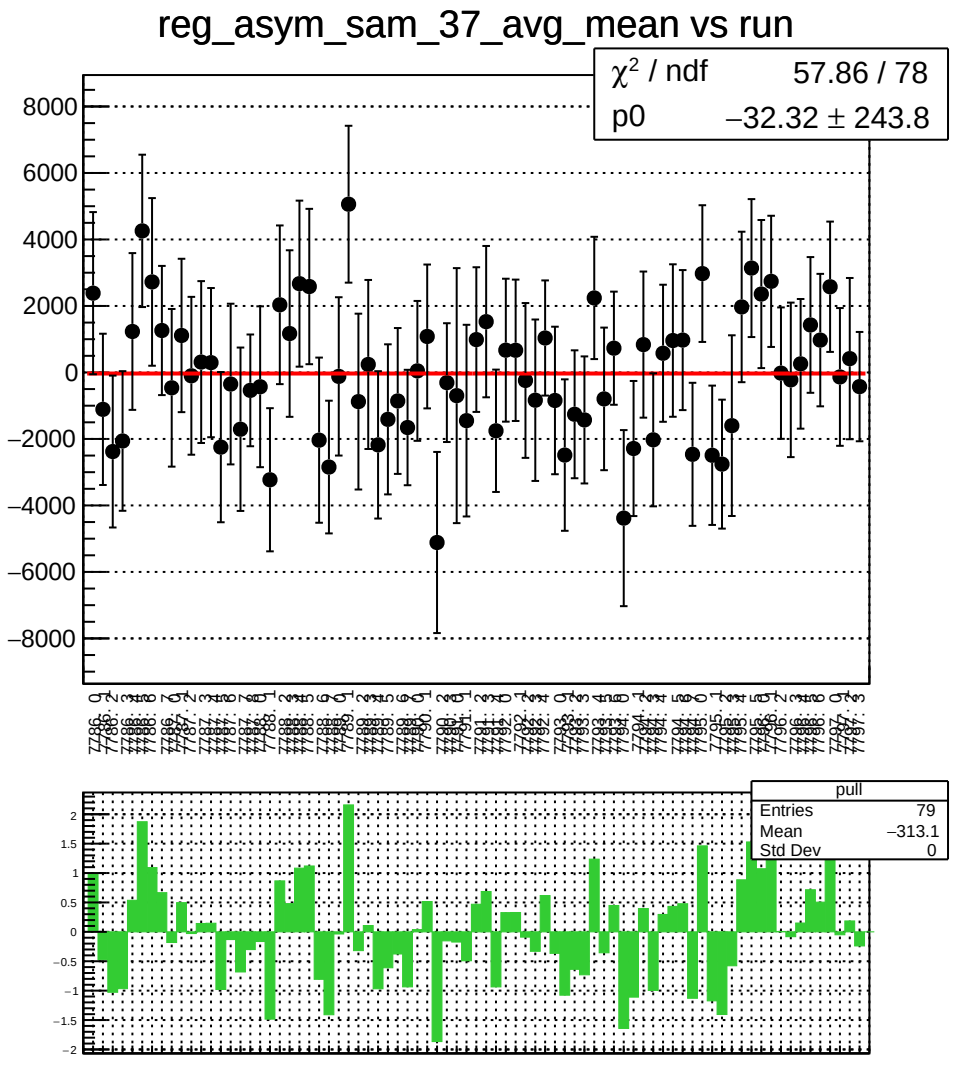

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.05 / 78
p0 −0.1338 ± 0.09097
pull
Entries 79
Mean 432.6
Std Dev 0
pull1D
Entries 79
Mean 0.01231
Std Dev 0.9746

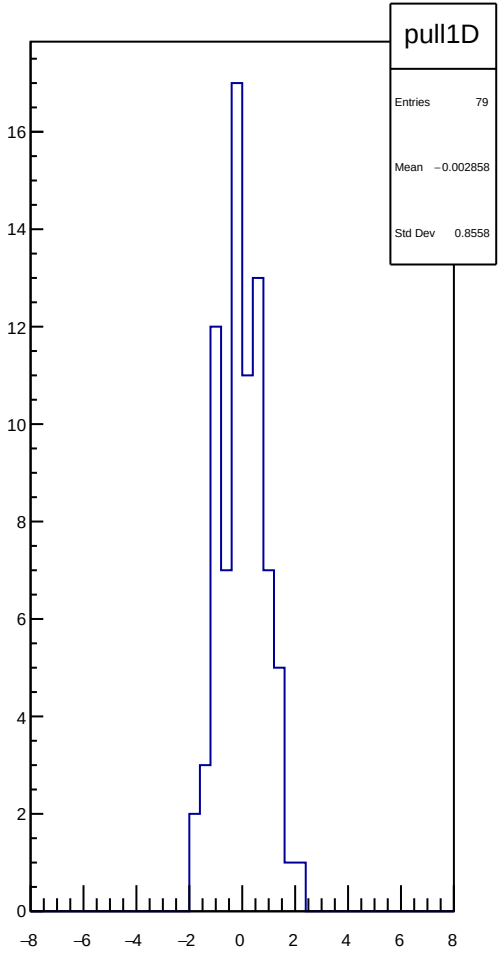

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.935e+04 / 78
p0 78.63 ± 0.06432
140
130
120
110
100
90
80
70
60

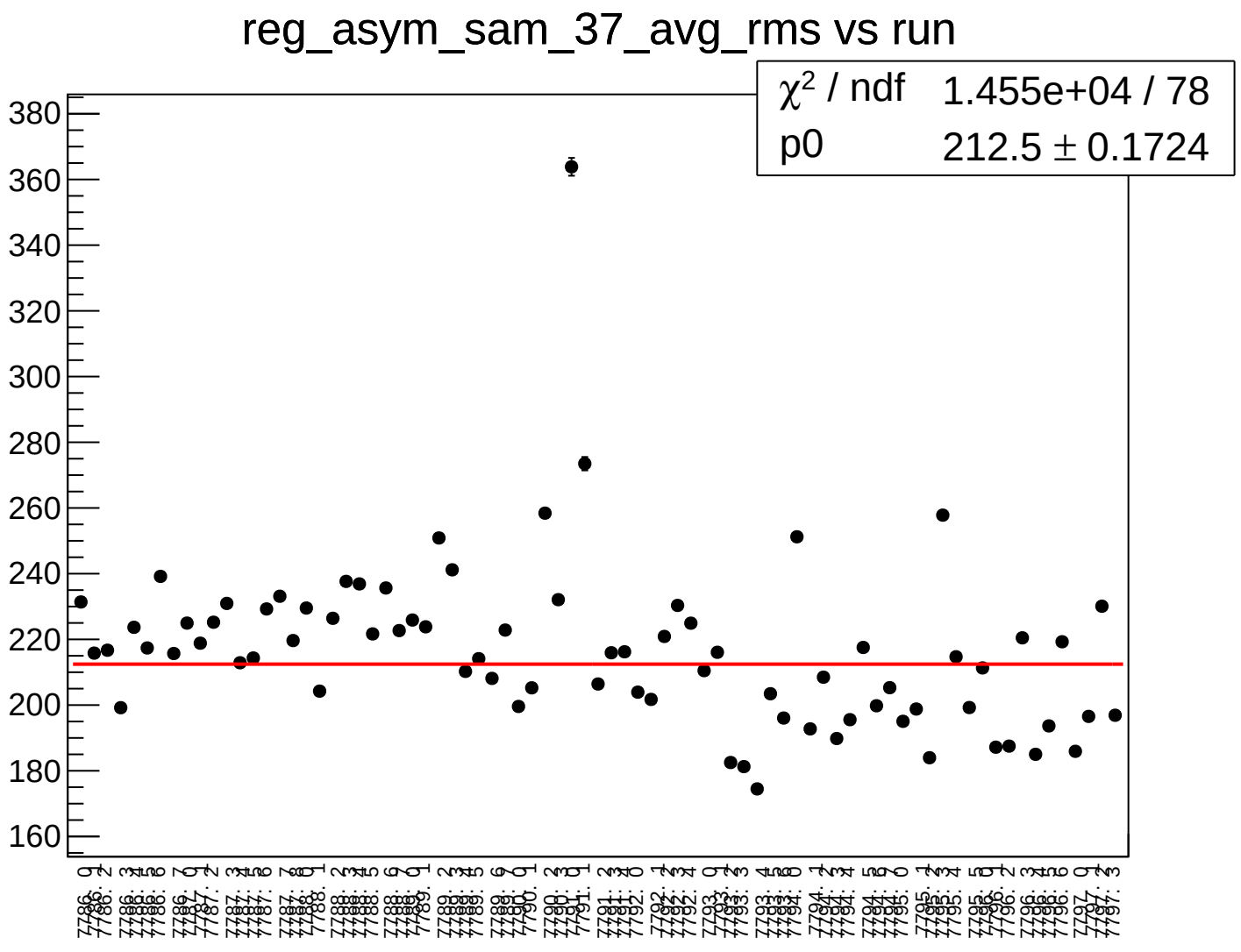

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.73 / 78
p0 −3.959e−14 ± 1.42e−13
pull
Entries 79
Mean −61.12
Std Dev 0

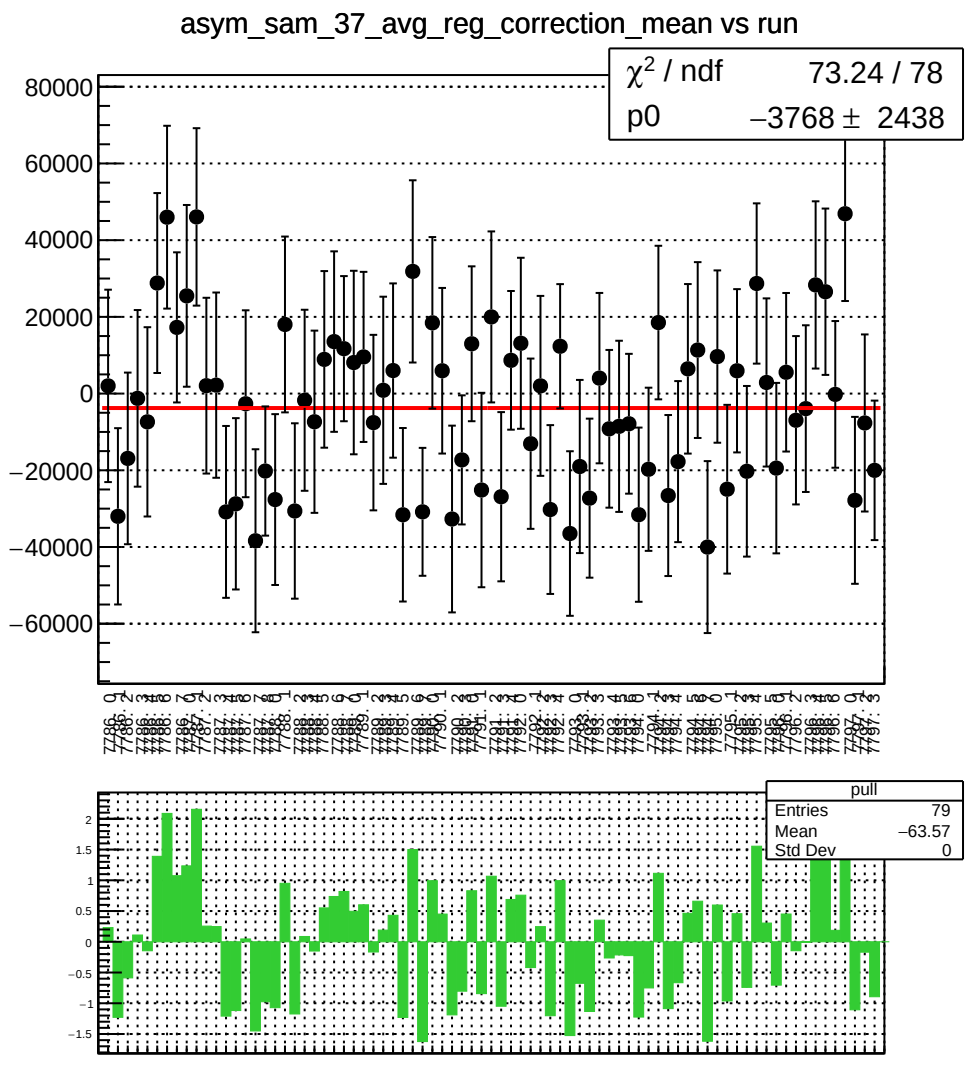

pull1D
Entries 79
Mean −0.0126
Std Dev 0.919

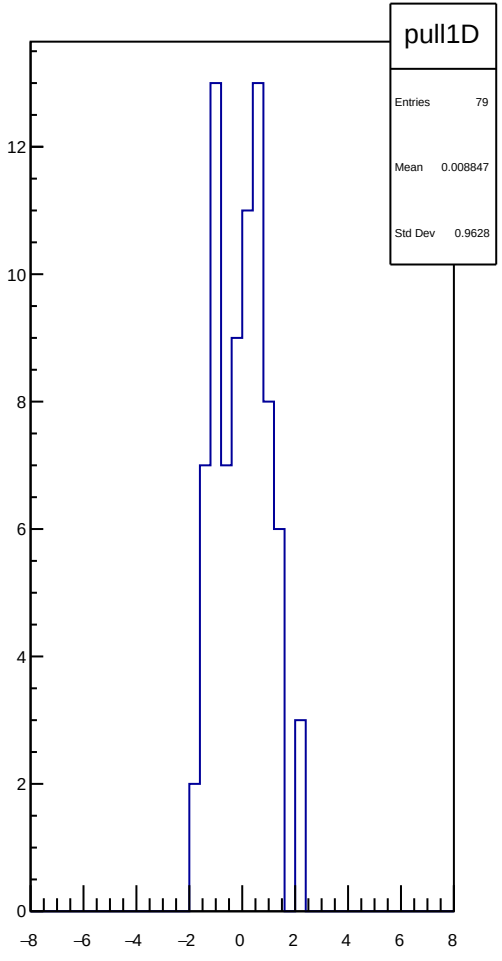

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.554e+05 / 78
p0 9.409e−11 ± 1.004e−13
0.6
0.5
0.4
0.3
0.2
0.1

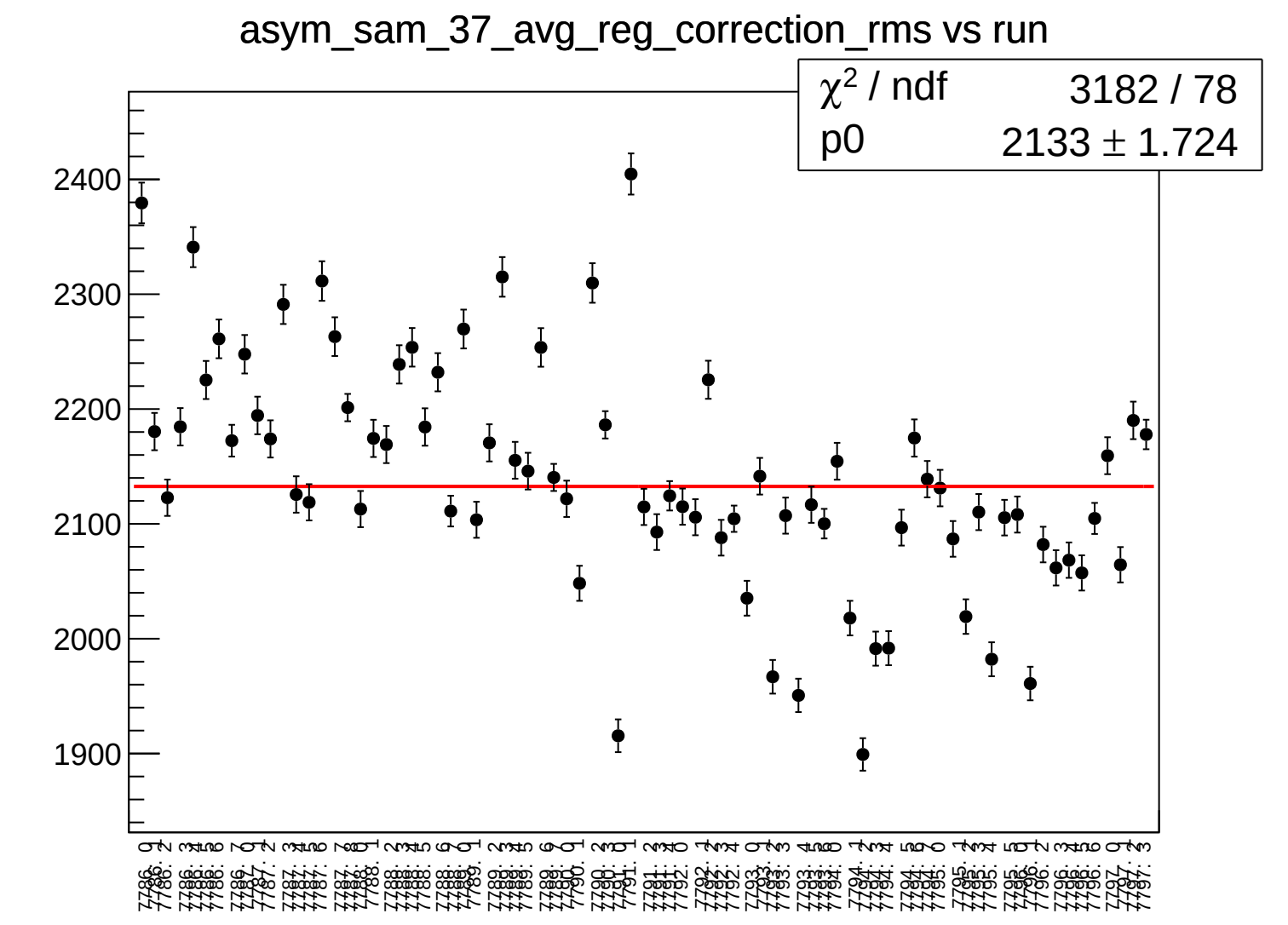

reg_asym_sam_37_avg_mean vs run
χ² / ndf 57.86 / 78
p0 −32.32 ± 243.8
pull
Entries 79
Mean −313.1
Std Dev 0

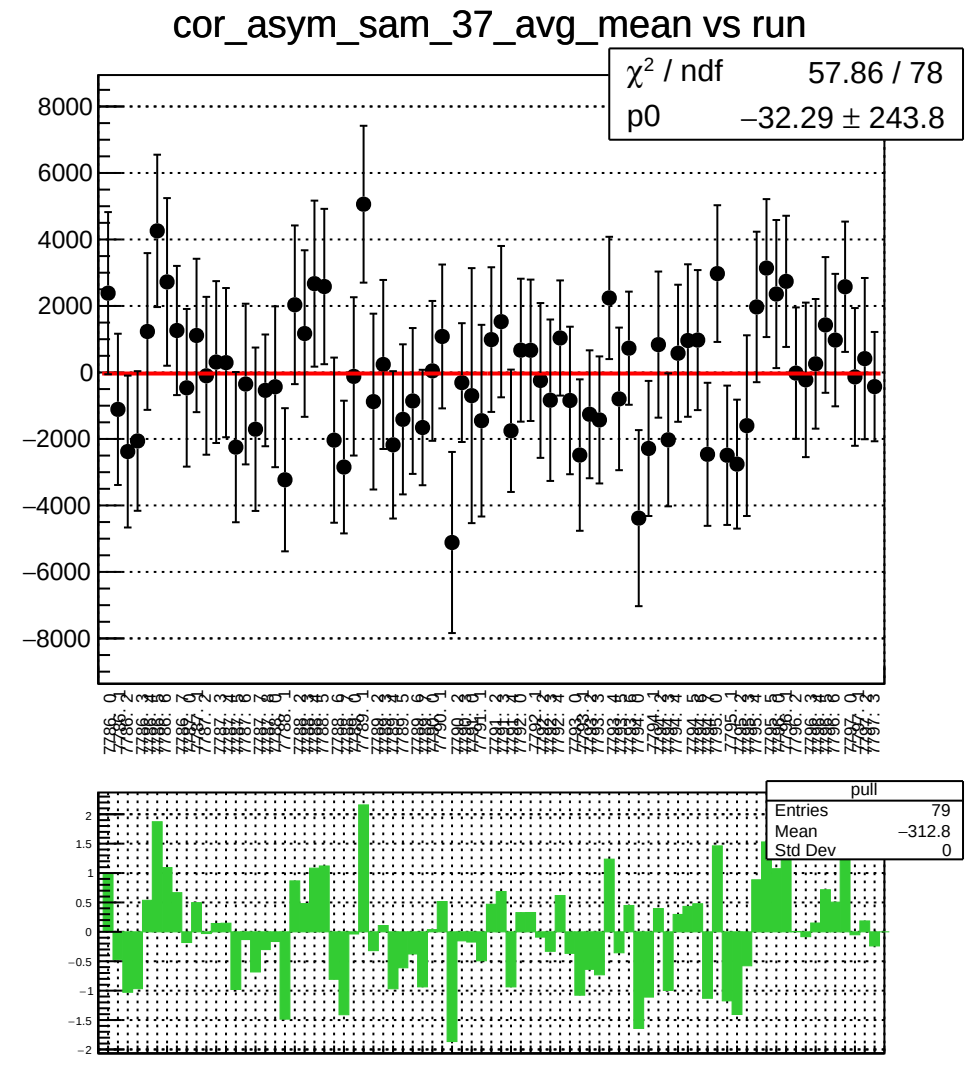

pull1D
Entries 79
Mean −0.002858
Std Dev 0.8558

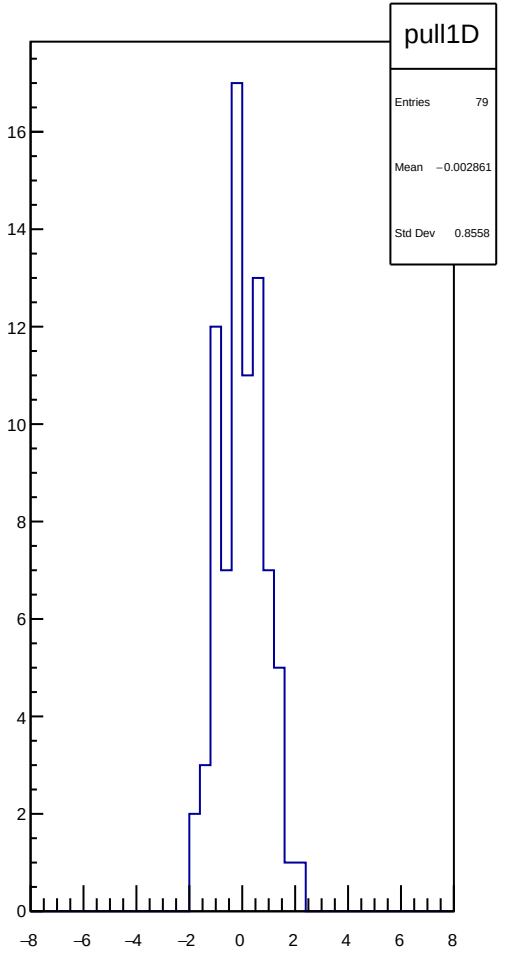

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.455e+04 / 78
p0 212.5 ± 0.1724
380
360
340
320
300
280
260
240
220
200
180
160

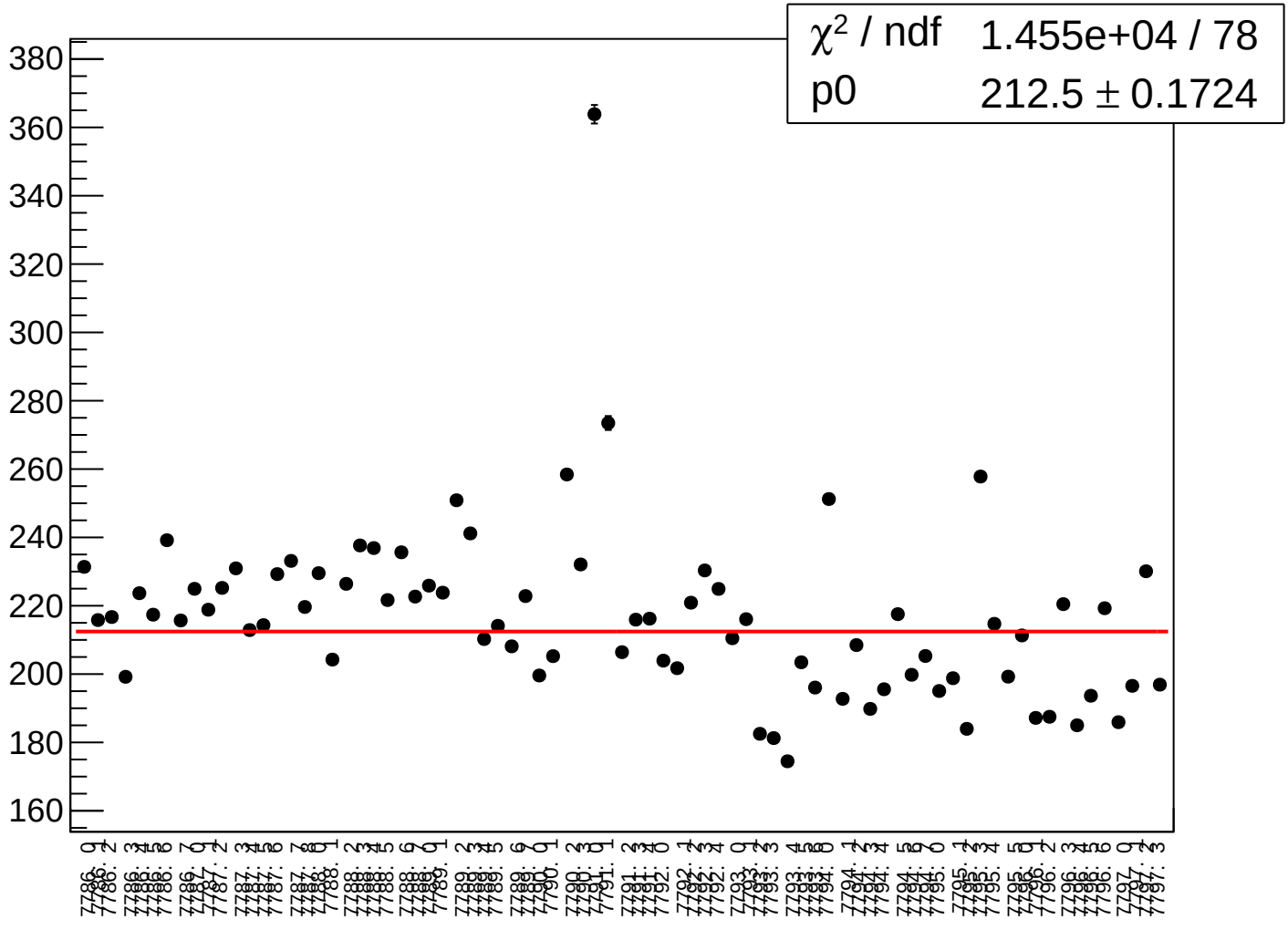

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 73.24 / 78
p0 −3768 ± 2438
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −63.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

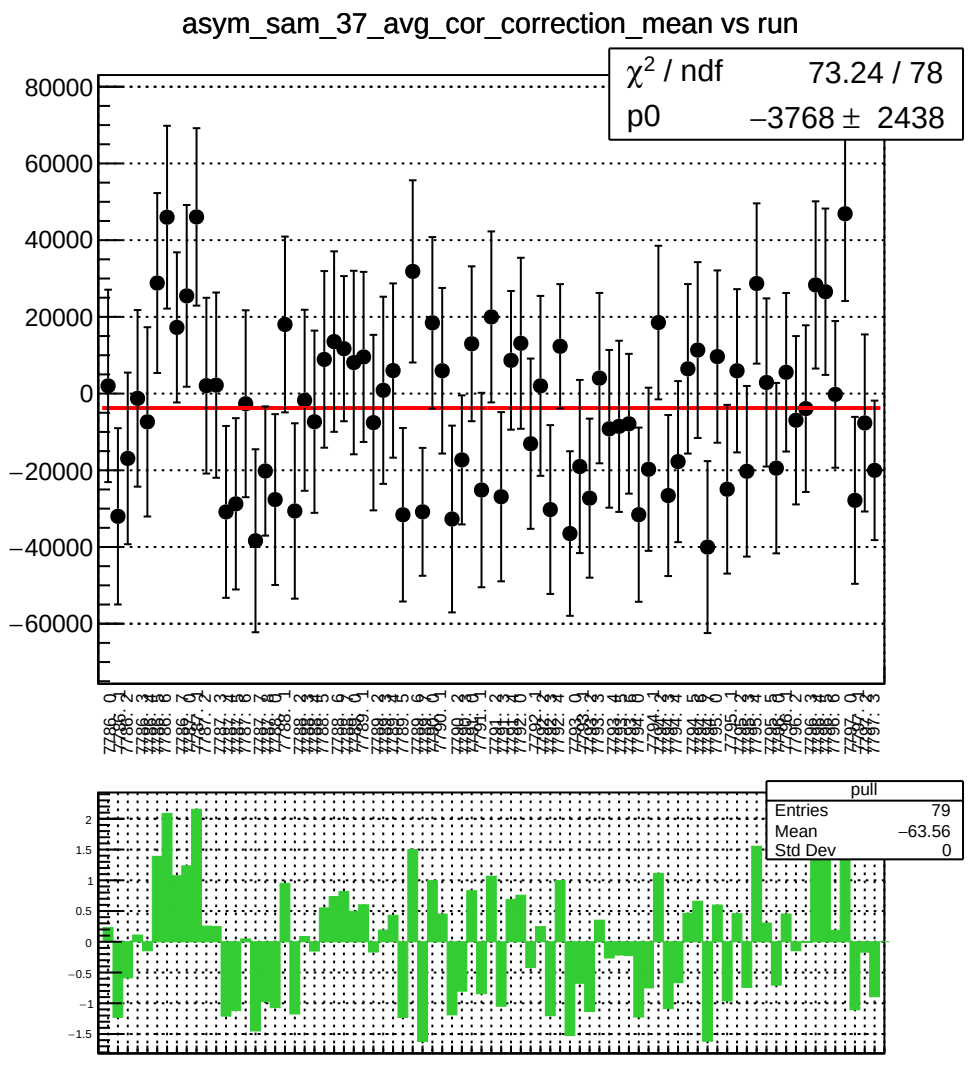

pull1D
Entries 79
Mean 0.008847
Std Dev 0.9628
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

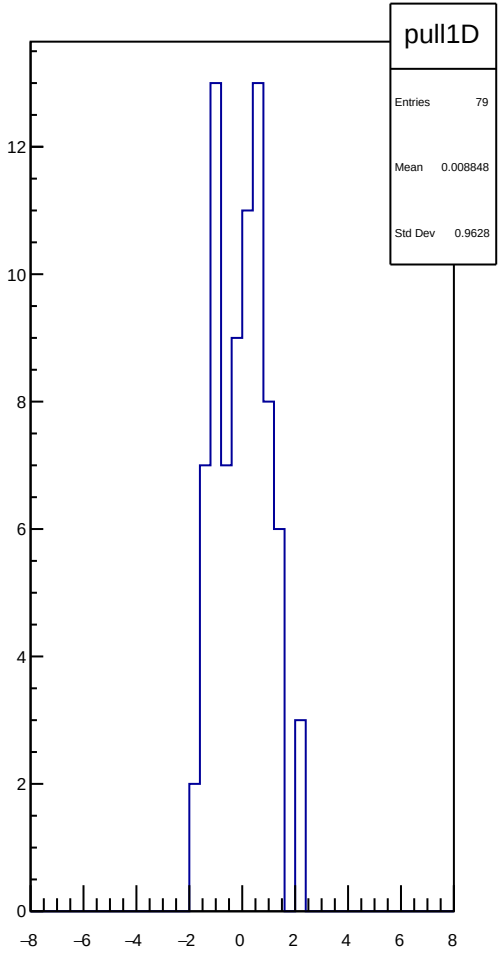

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 3182 / 78
p0 2133 ± 1.724
2400
2300
2200
2100
2000
1900

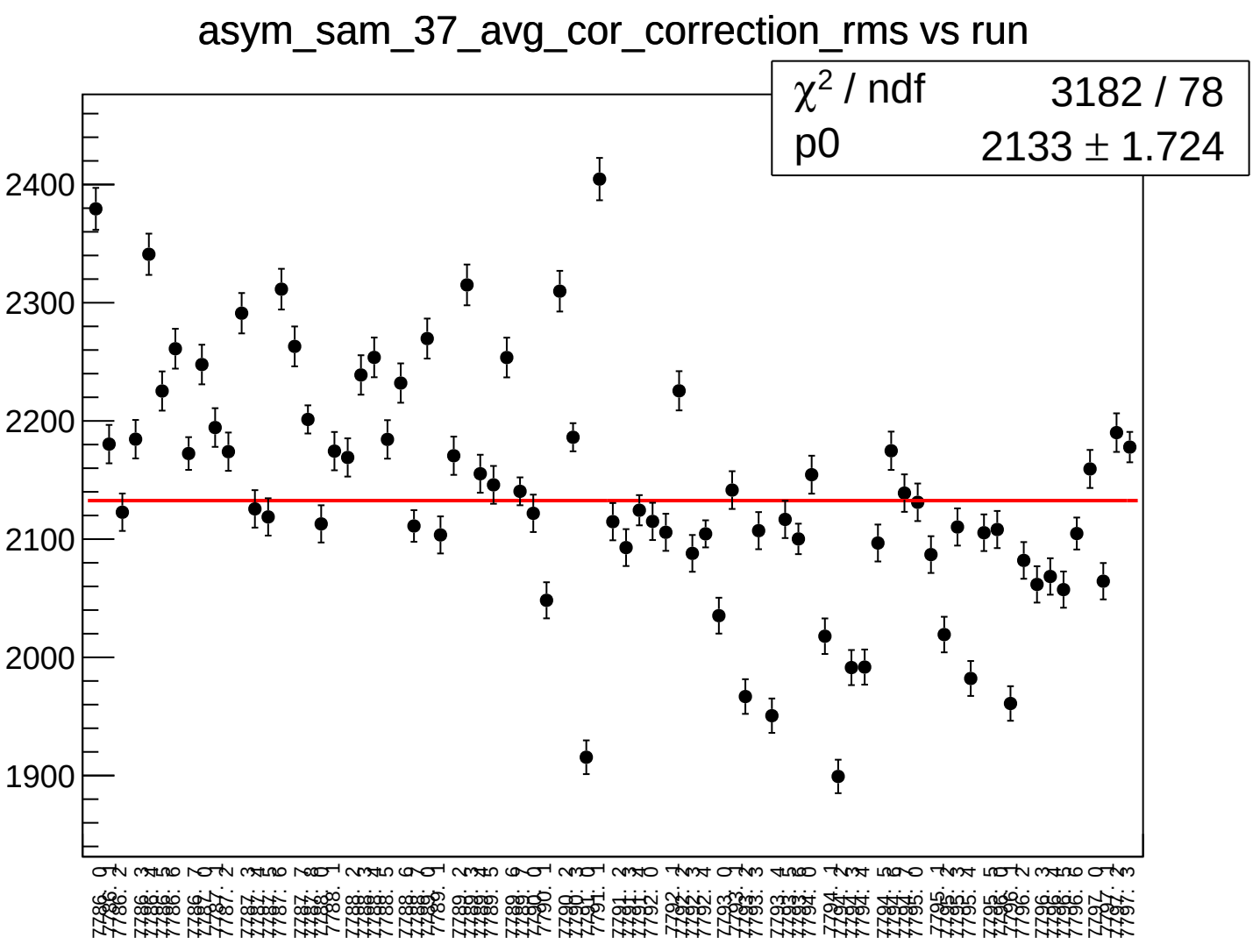

cor_asym_sam_37_avg_mean vs run
χ² / ndf 57.86 / 78
p0 −32.29 ± 243.8
pull
Entries 79
Mean −312.8
Std Dev 0

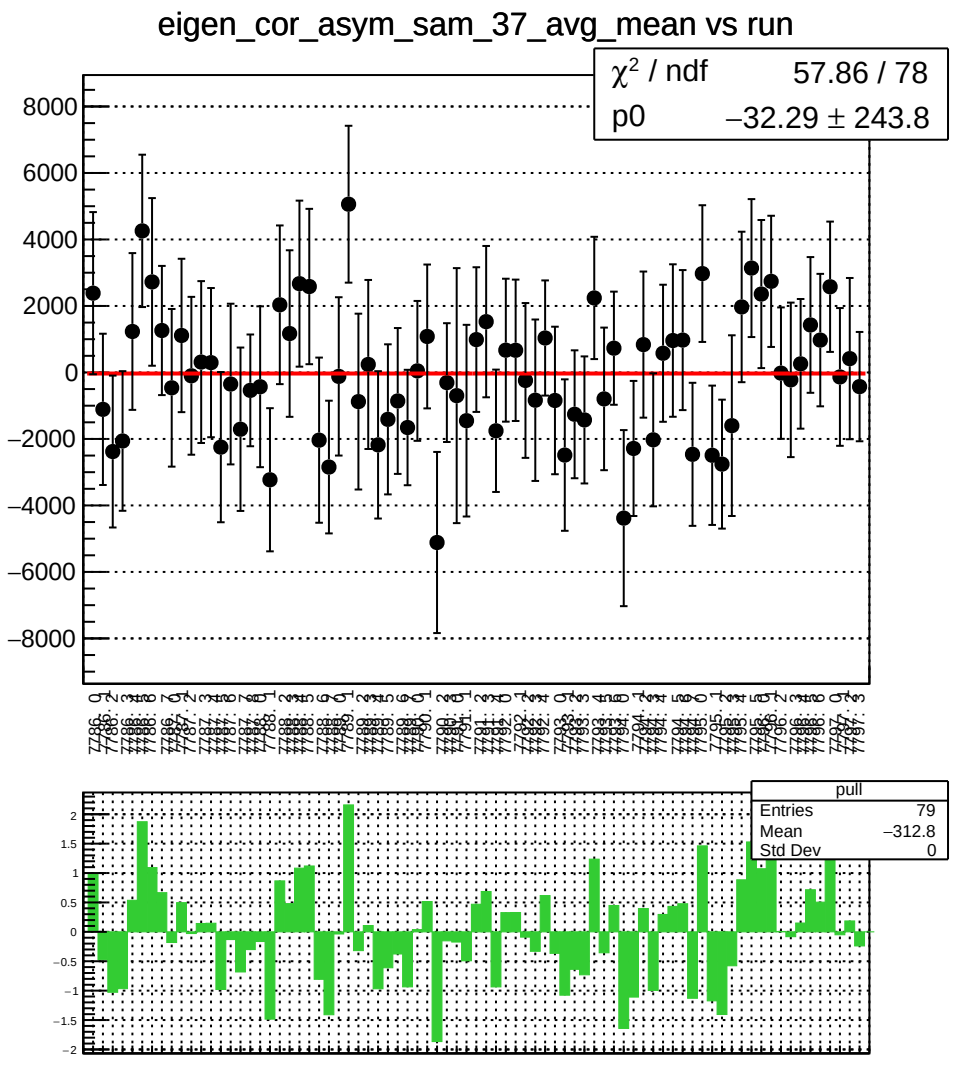

pull1D
Entries 79
Mean −0.002861
Std Dev 0.8558

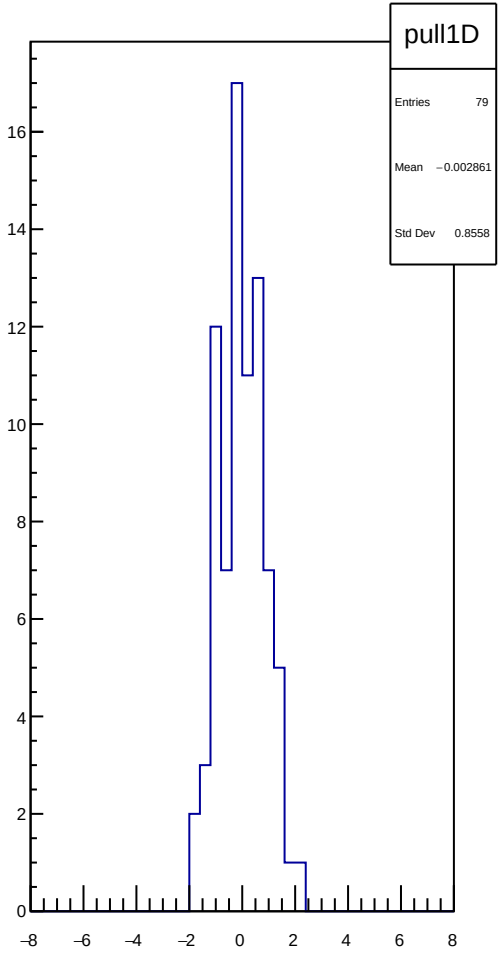

cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.455e+04 / 78
p0 212.5 ± 0.1724
380
360
340
320
300
280
260
240
220
200
180
160

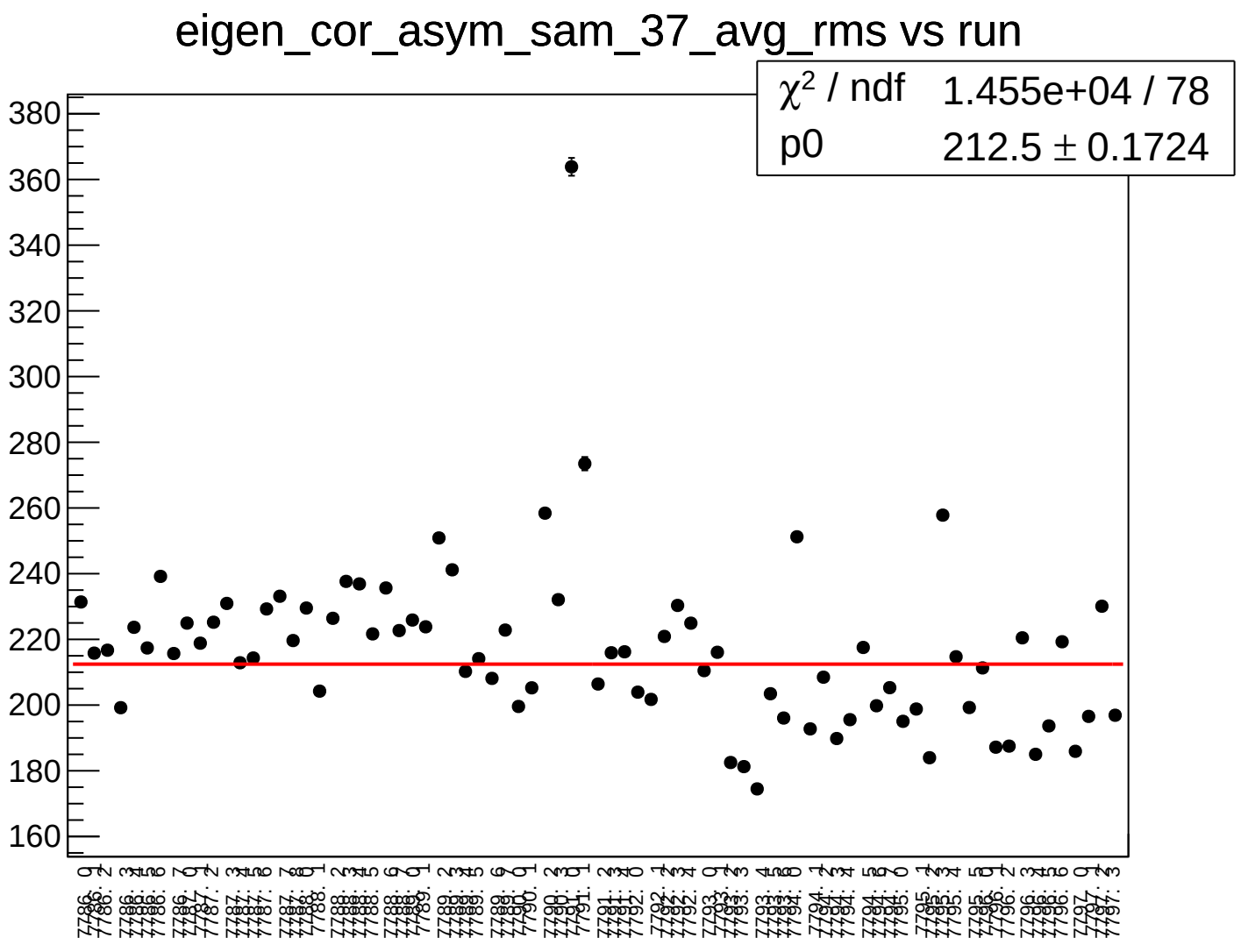

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 73.24 / 78
p0 −3768 ± 2438
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −63.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

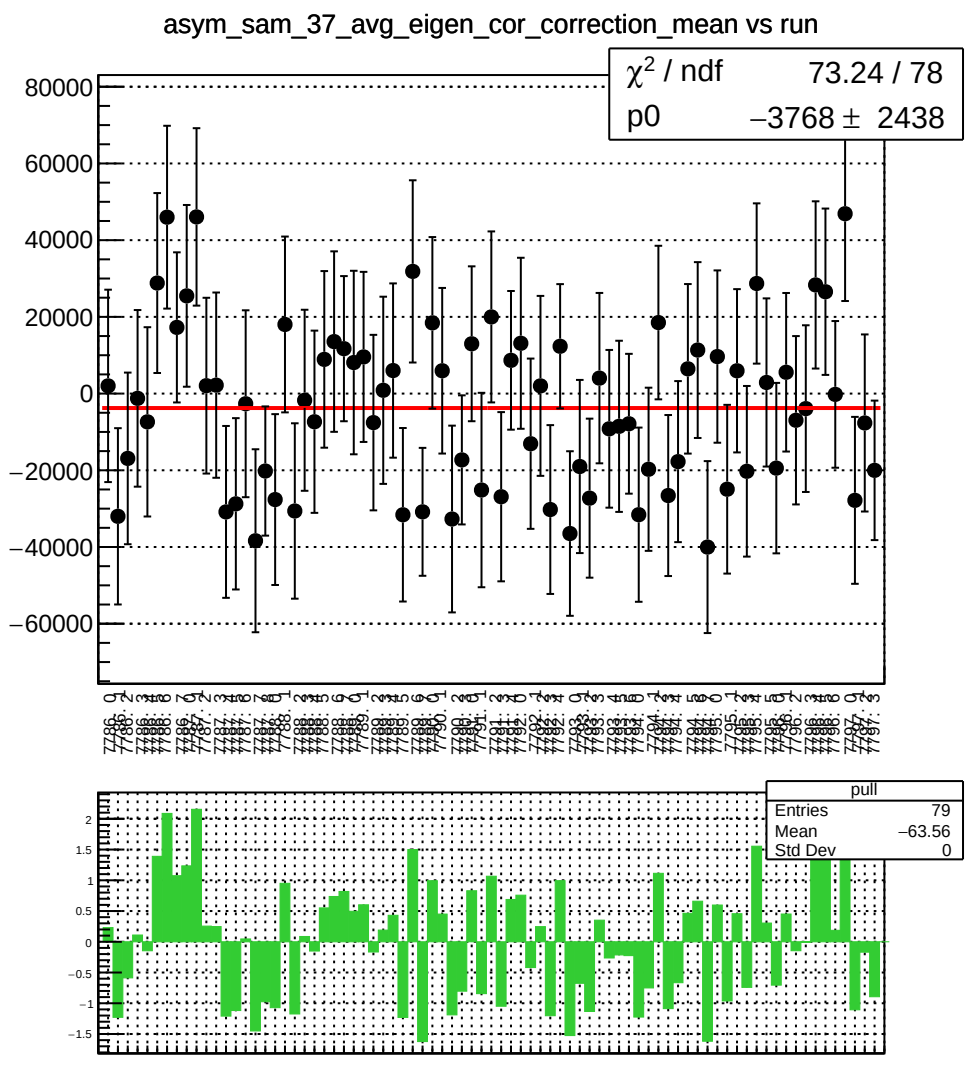

pull1D
Entries 79
Mean 0.008848
Std Dev 0.9628
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

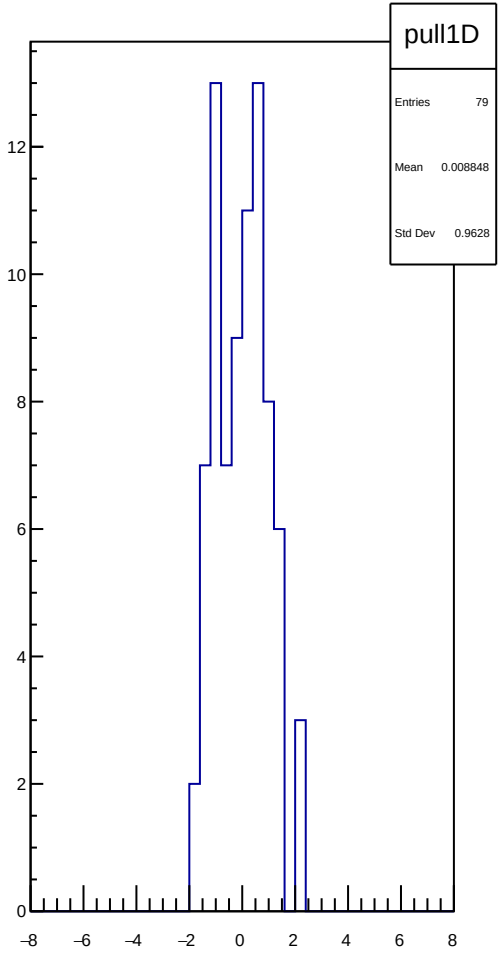

asym_sam_37_avg_cor_correction_rms vs run
χ^2 / ndf 3182 / 78
p0 2133 ± 1.724
2400
2300
2200
2100
2000
1900

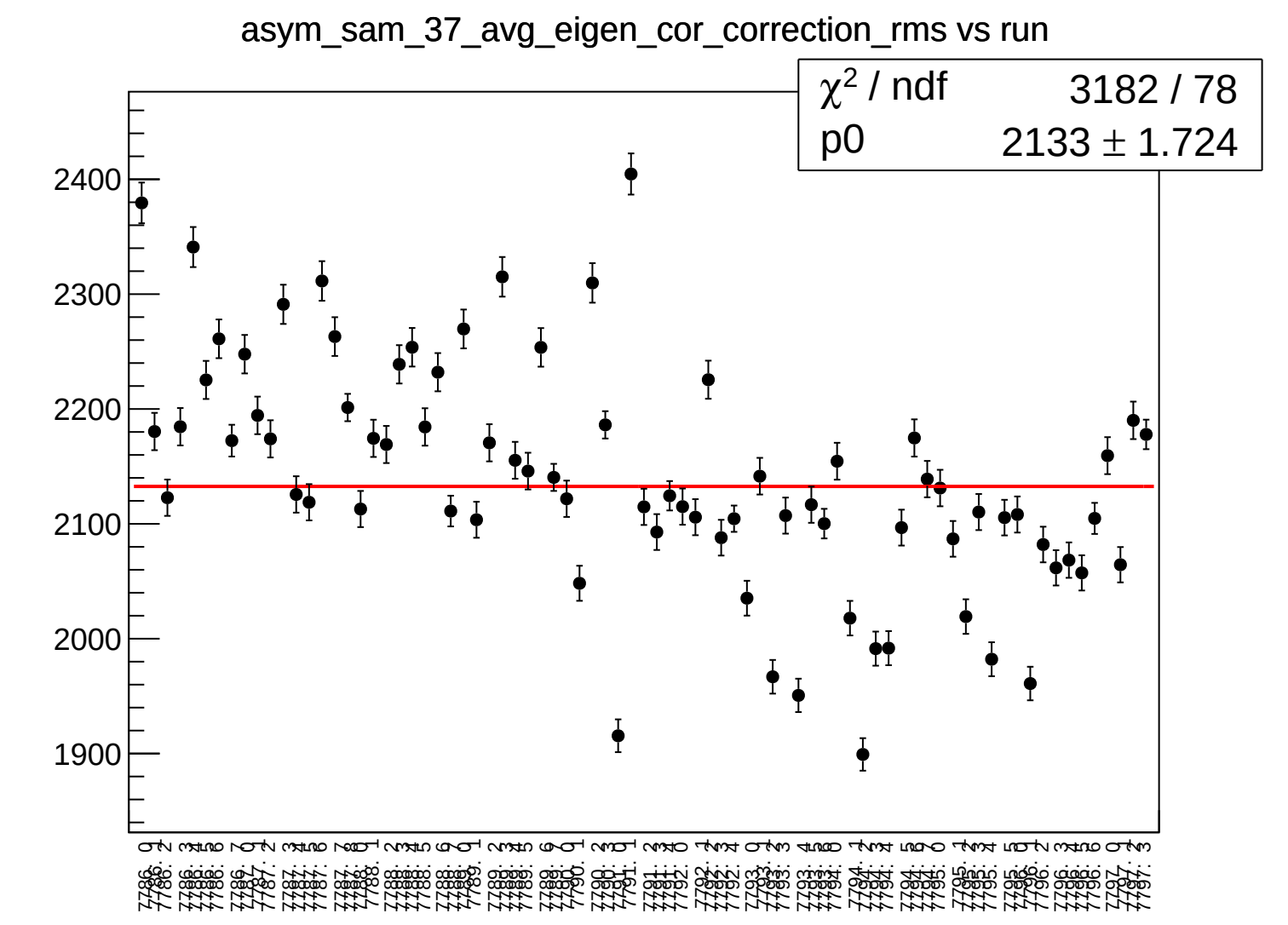

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 57.86 / 78
p0 −32.29 ± 243.8
pull
Entries 79
Mean −312.8
Std Dev 0

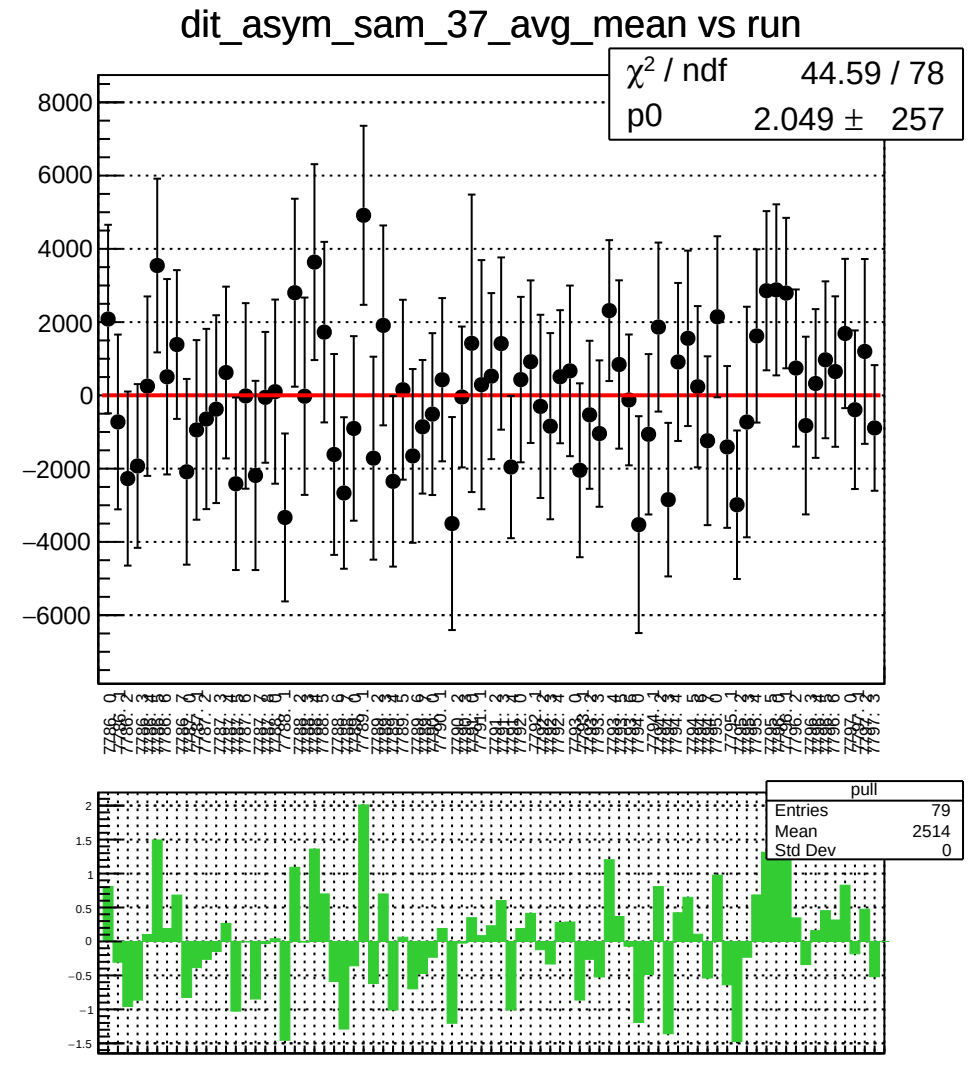

pull1D
Entries 79
Mean −0.002861
Std Dev 0.8558

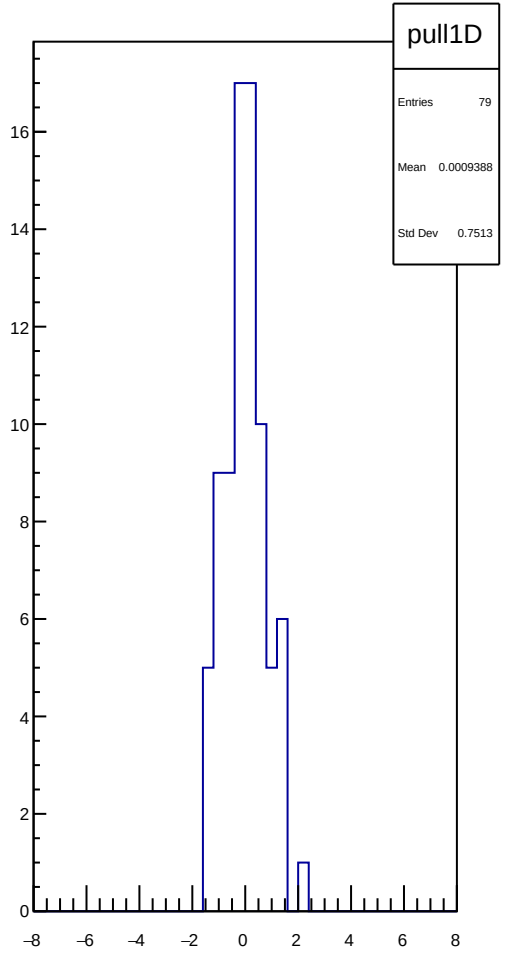

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.455e+04 / 78
p0 212.5 ± 0.1724
380
360
340
320
300
280
260
240
220
200
180
160

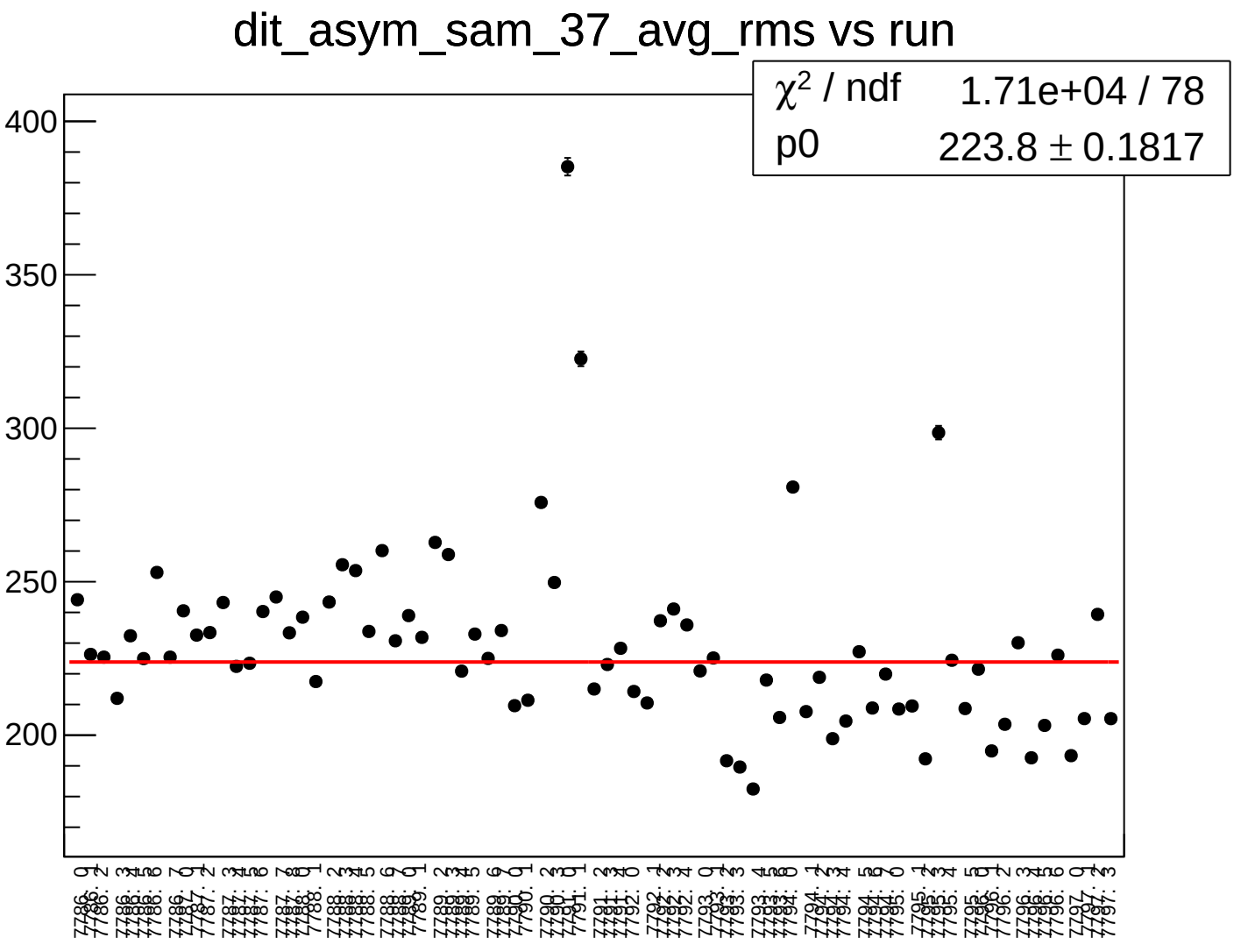

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.24 / 78
p0 −3768 ± 2438
pull
Entries 79
Mean −63.56
Std Dev 0

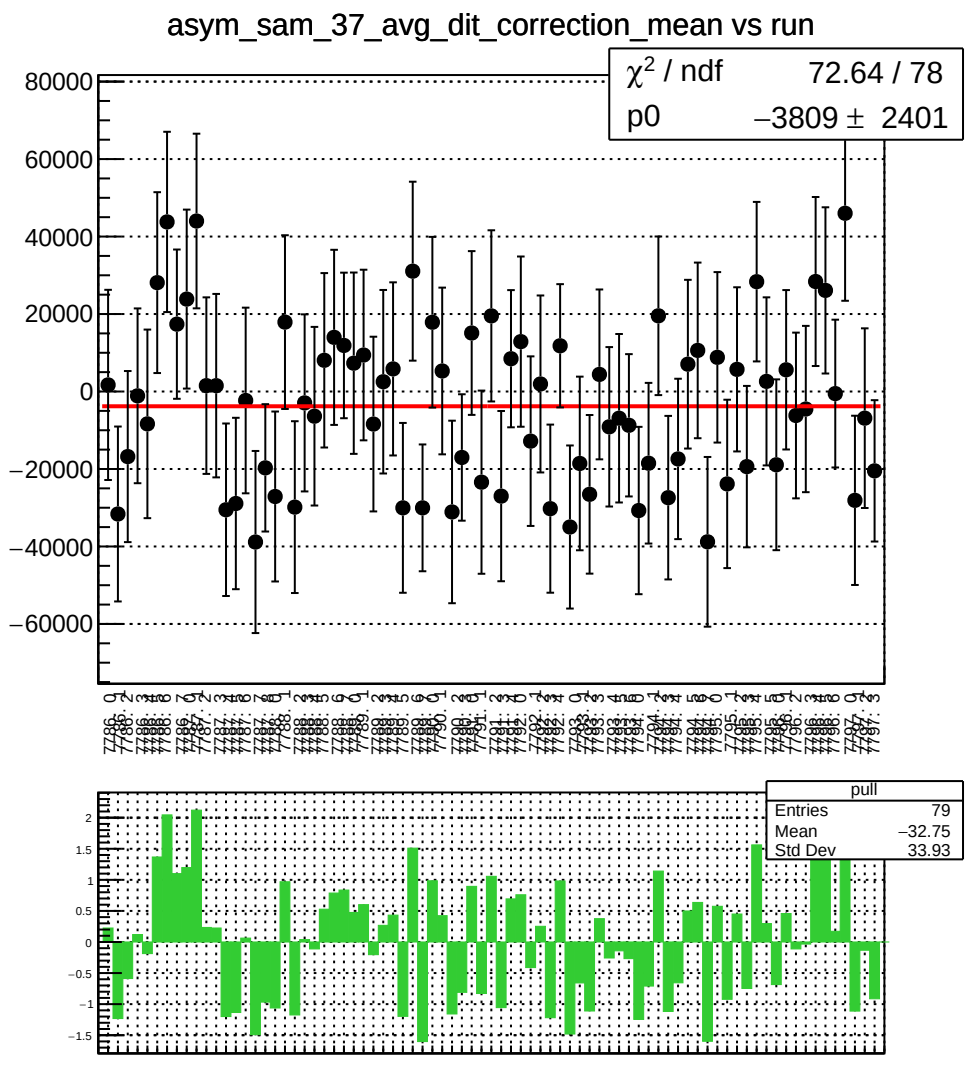

pull1D
Entries 79
Mean 0.008848
Std Dev 0.9628

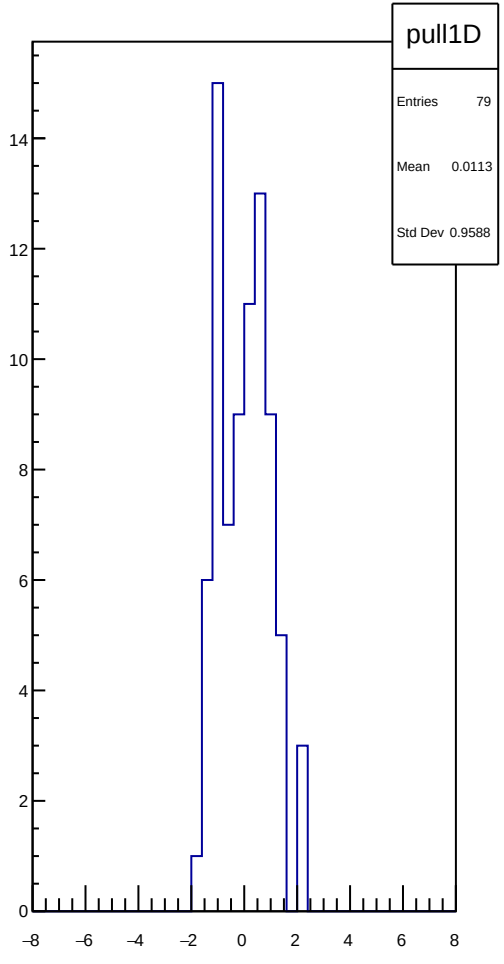

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 3182 / 78
p0 2133 ± 1.724
2400
2300
2200
2100
2000
1900

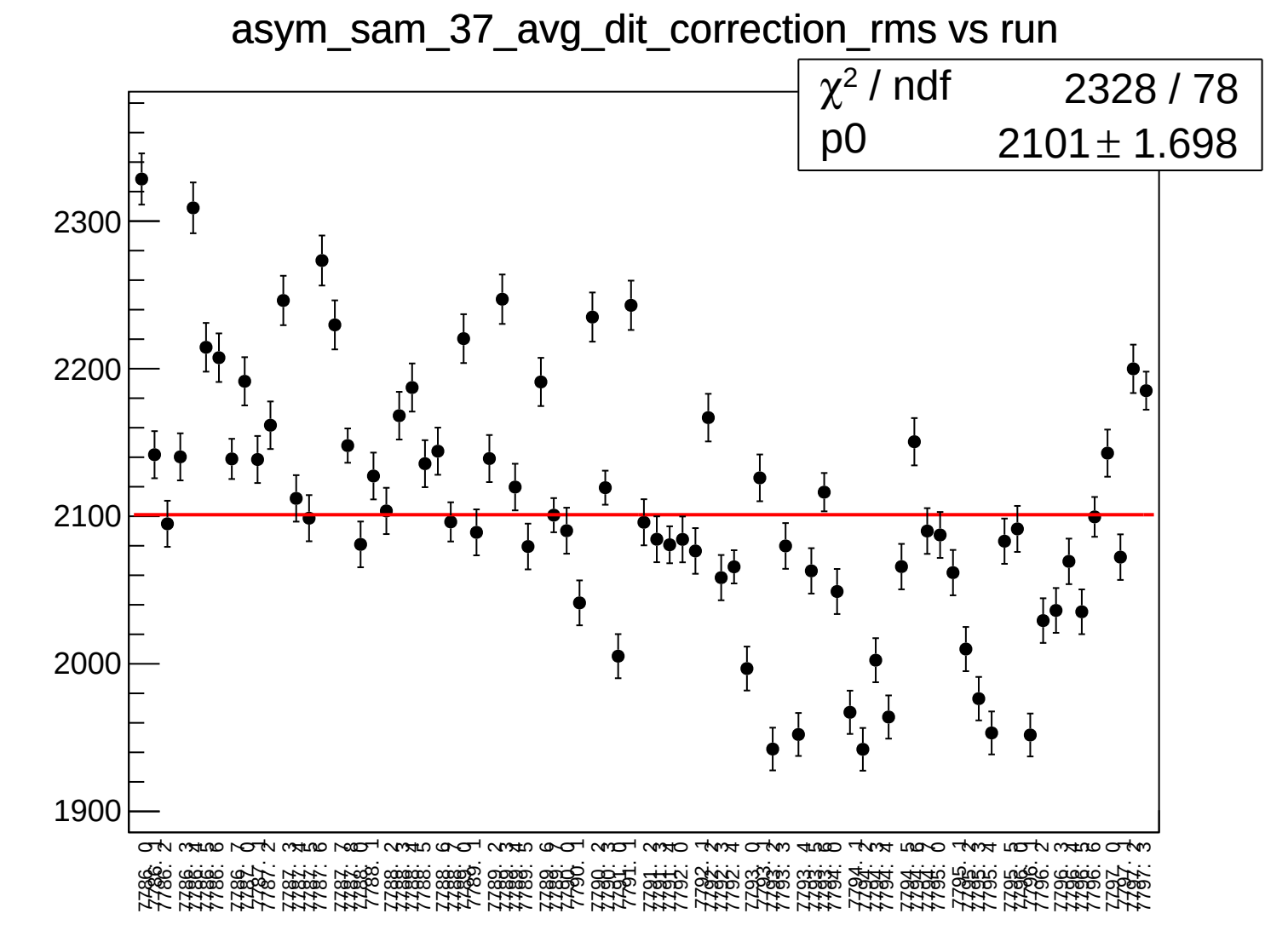

dit_asym_sam_37_avg_mean vs run
χ² / ndf 44.59 / 78
p0 2.049 ± 257
pull
Entries 79
Mean 2514
Std Dev 0

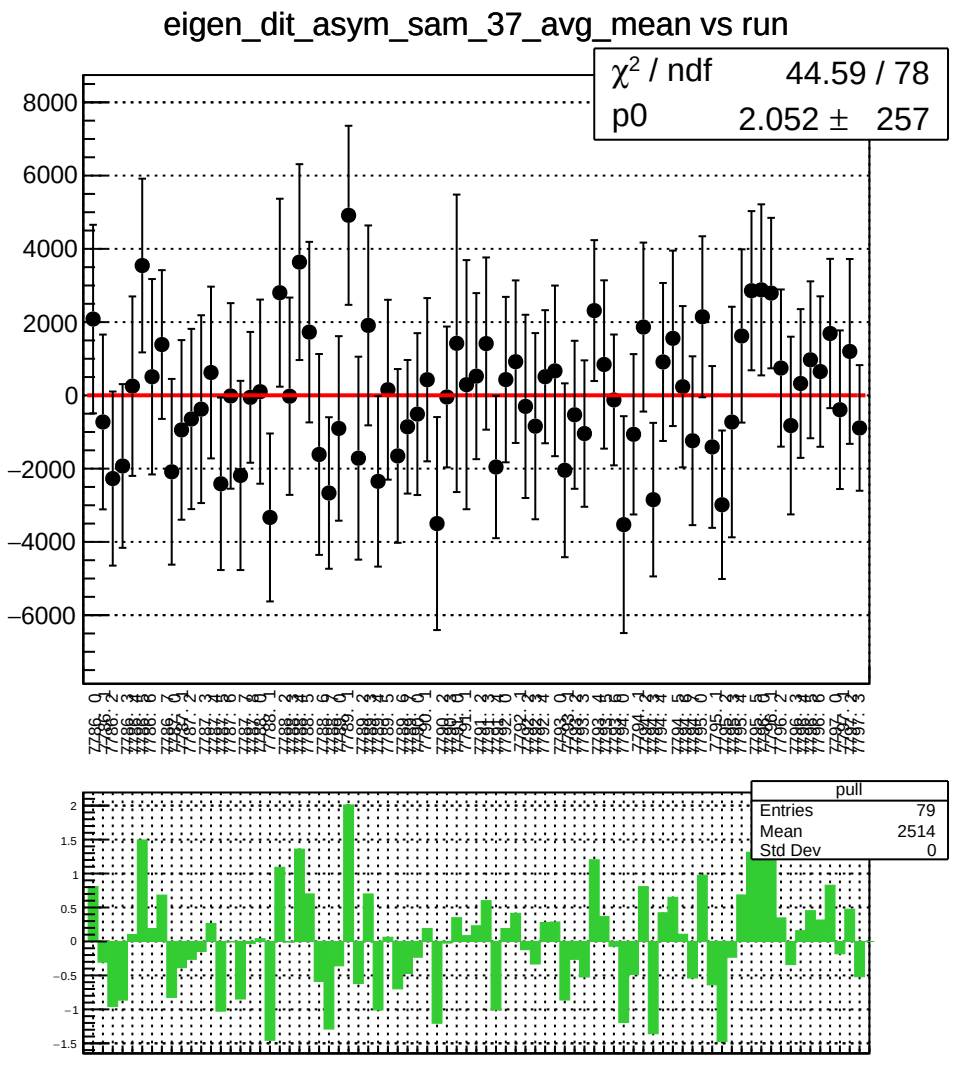

pull1D
Entries 79
Mean 0.0009388
Std Dev 0.7513

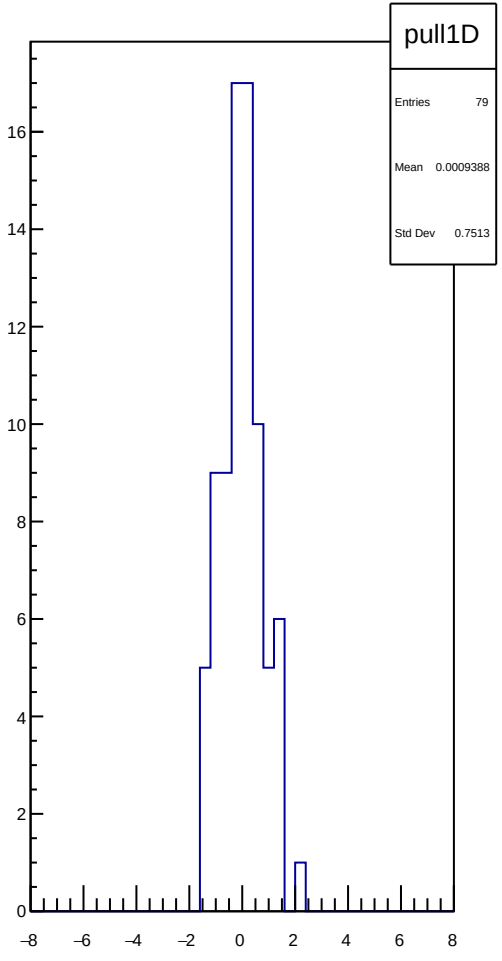

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.71e+04 / 78
p0 223.8 ± 0.1817
400
350
300
250
200

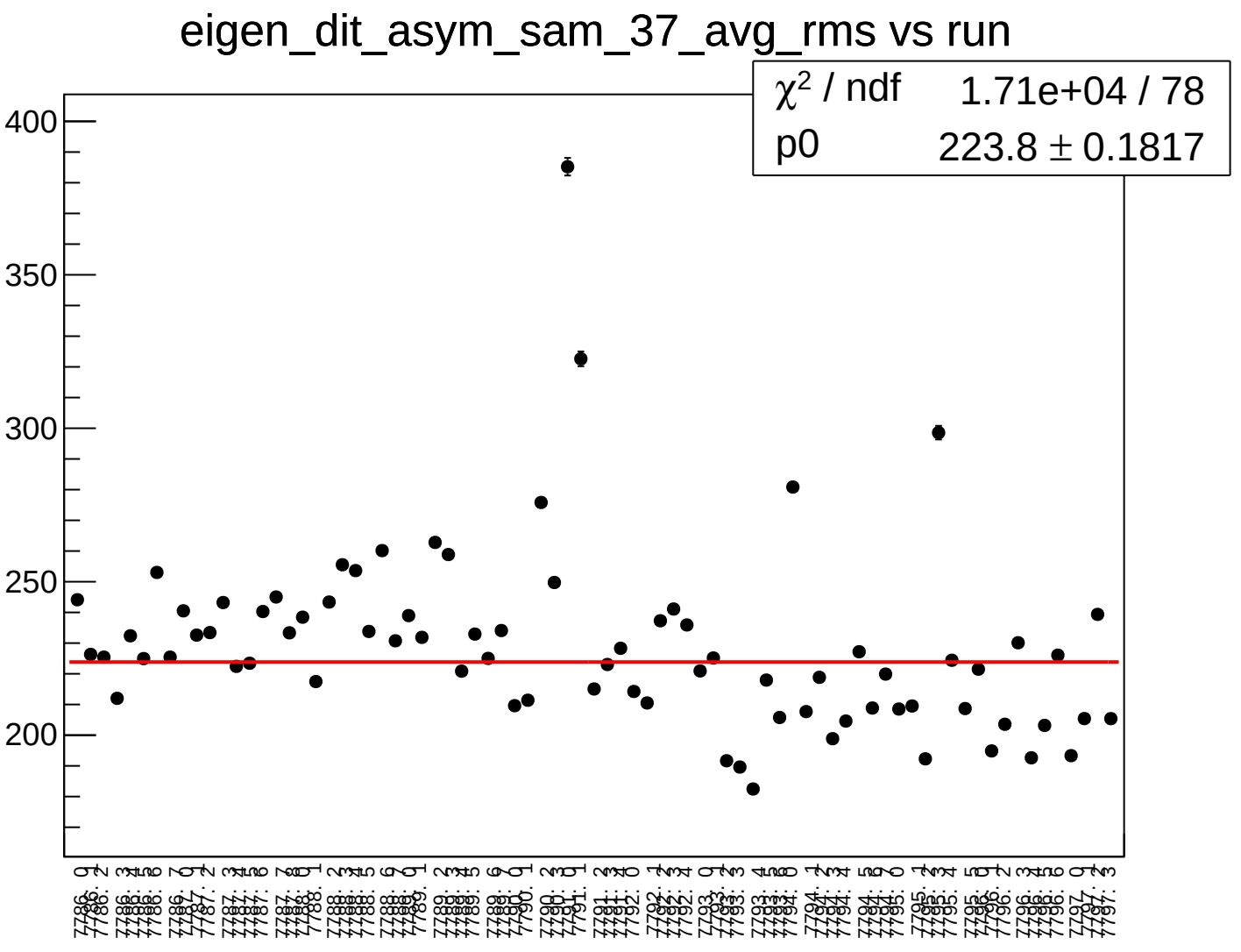

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 72.64 / 78
p0 −3809 ± 2401
pull
Entries 79
Mean −32.75
Std Dev 33.93

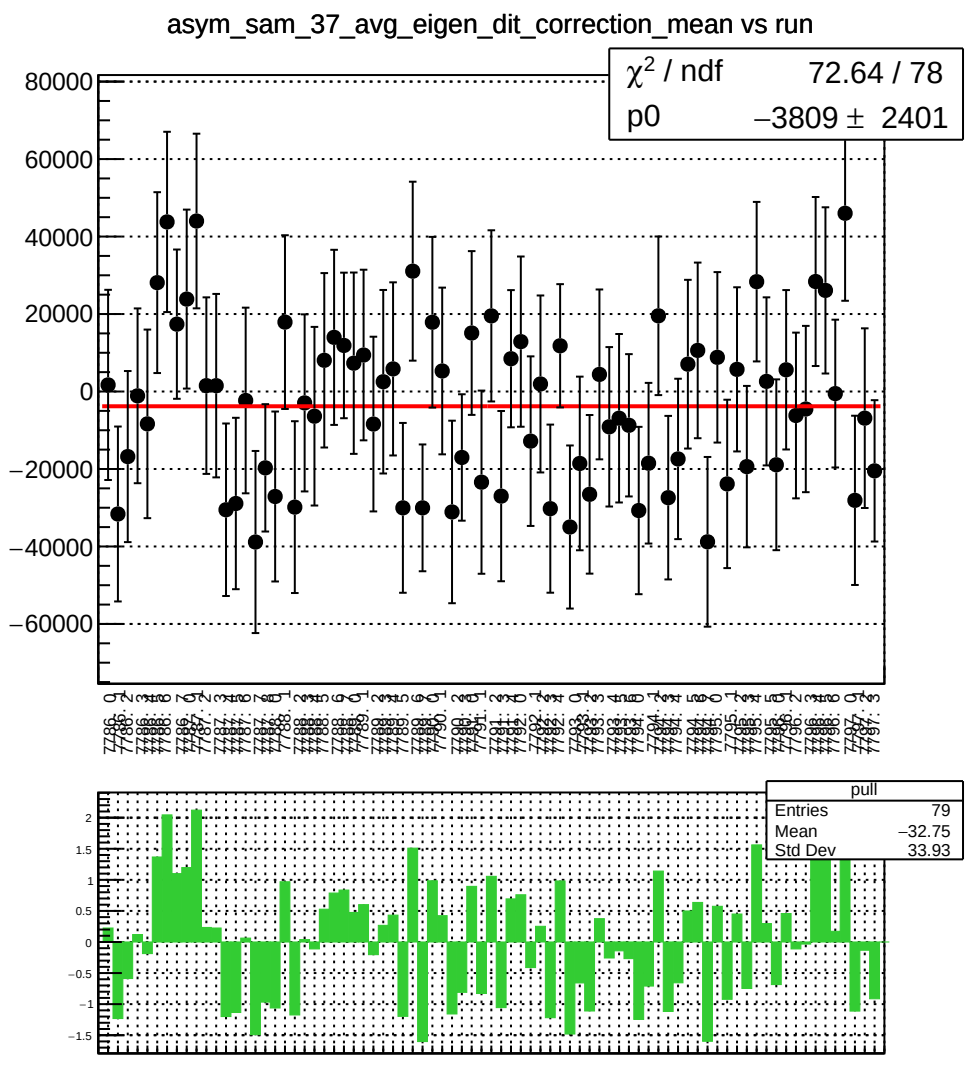

pull1D
Entries 79
Mean 0.0113
Std Dev 0.9588

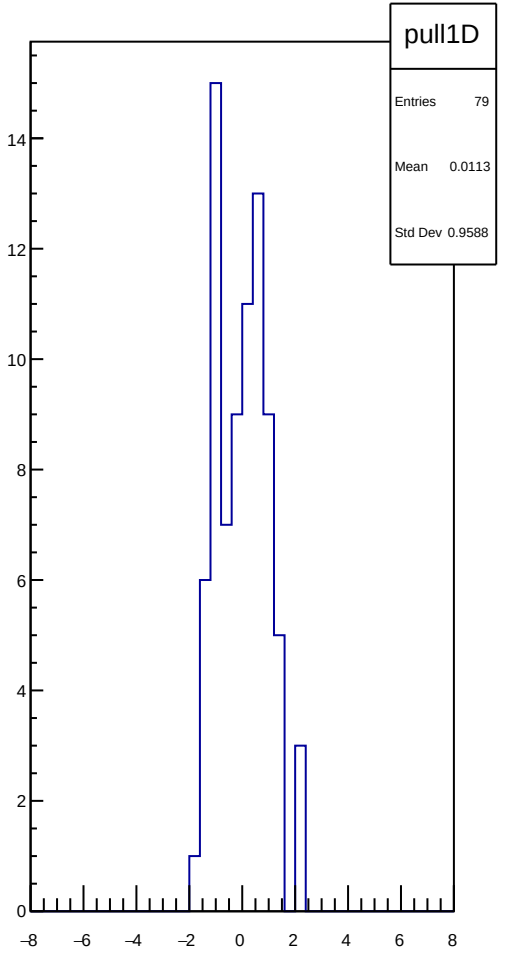

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 2328 / 78
p0 2101 ± 1.698
2300
2200
2100
2000
1900

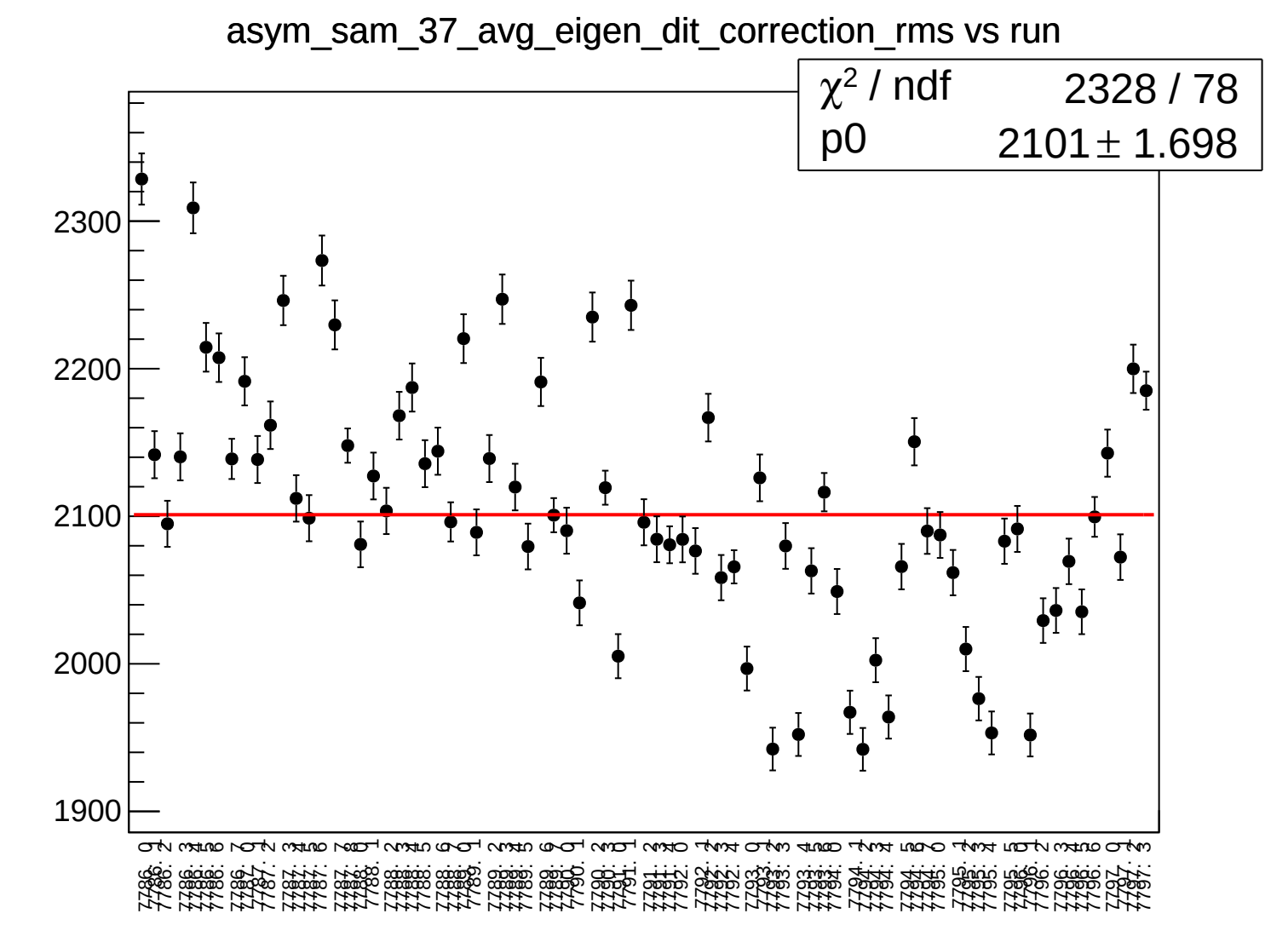

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 44.59 / 78
p0 2.052 ± 257
pull
Entries 79
Mean 2514
Std Dev 0

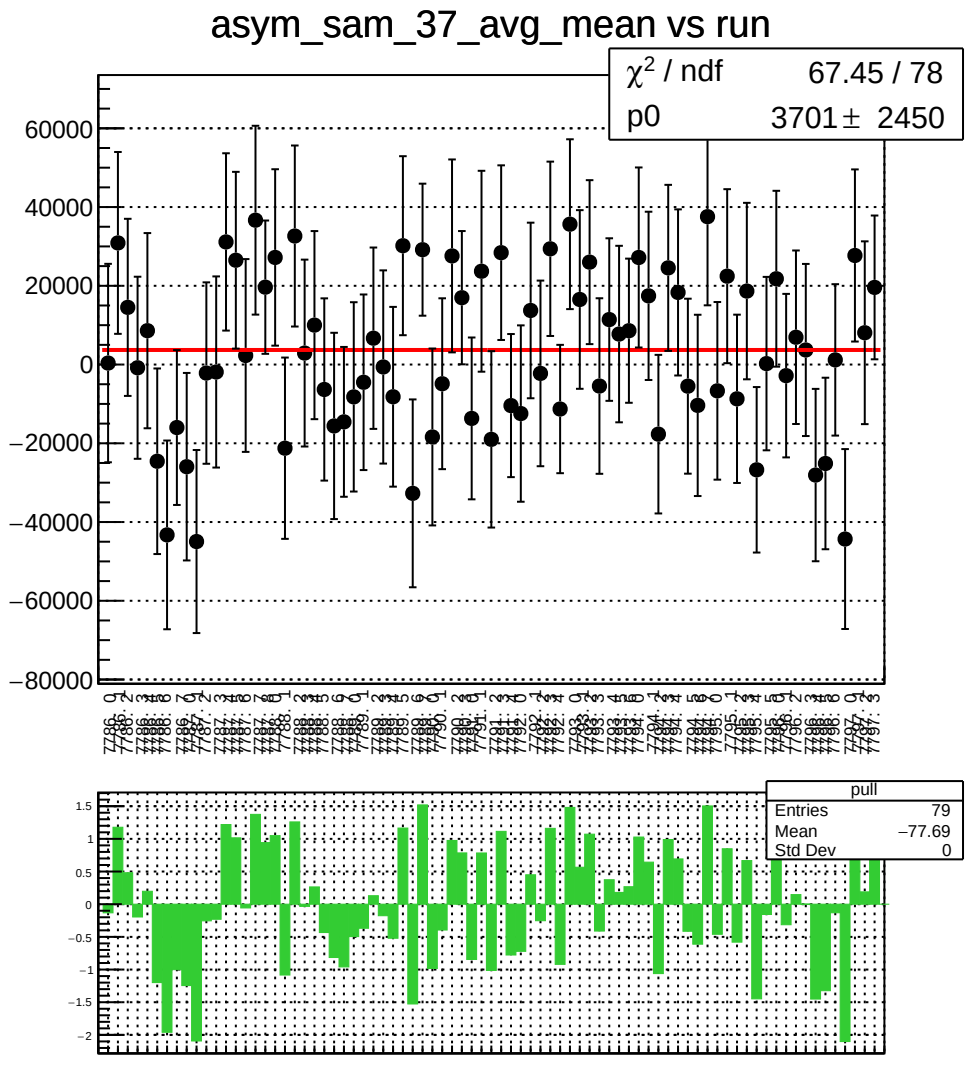

pull1D
Entries 79
Mean 0.0009388
Std Dev 0.7513

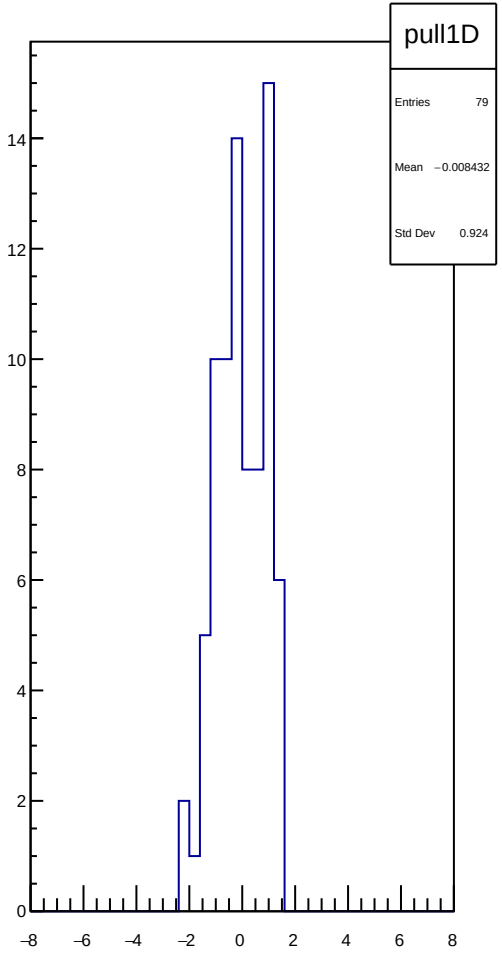

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.71e+04 / 78
p0 223.8 ± 0.1817
400
350
300
250
200

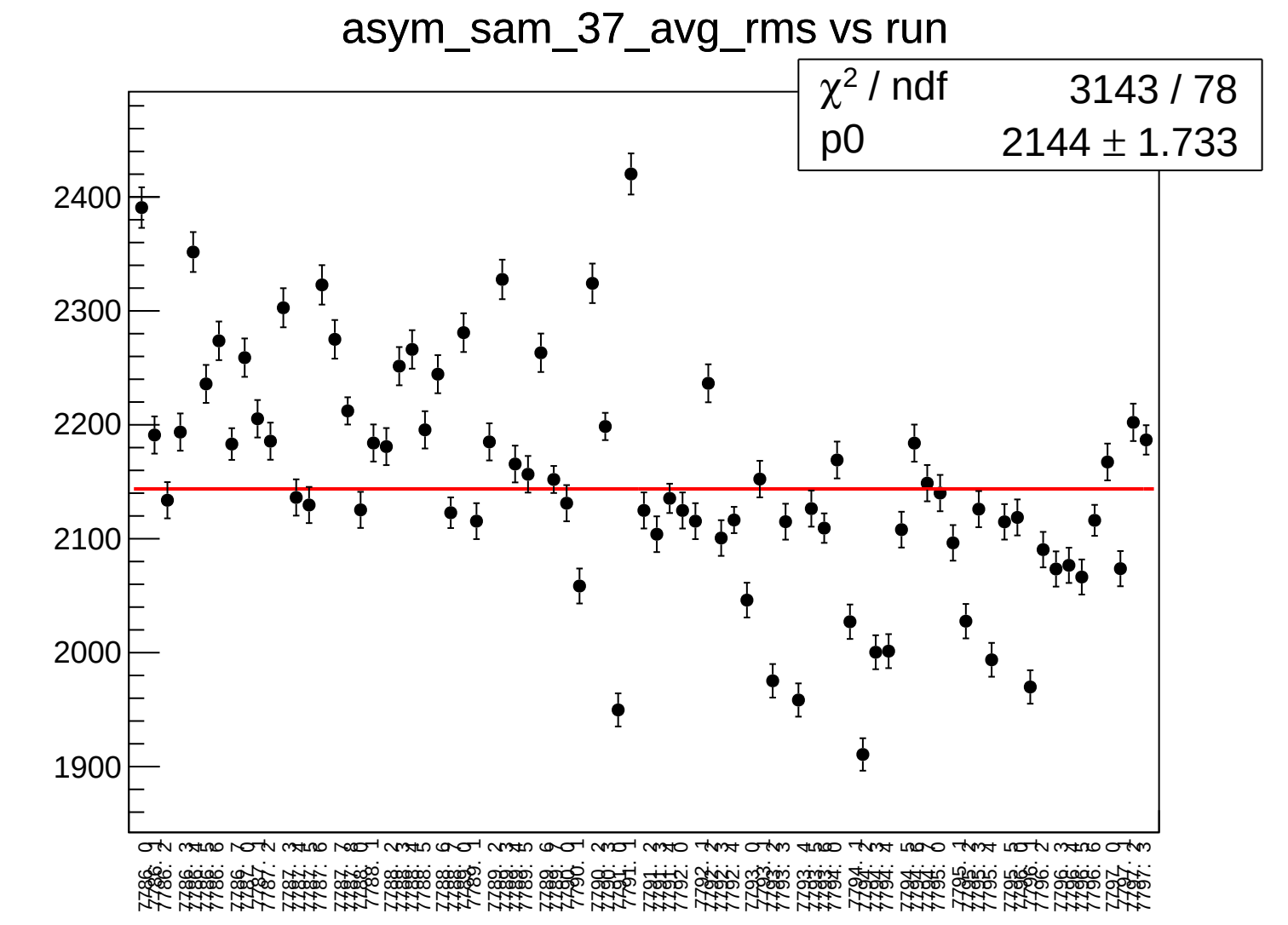

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.64 / 78
p0 −3809 ± 2401
pull
Entries 79
Mean −32.75
Std Dev 33.93

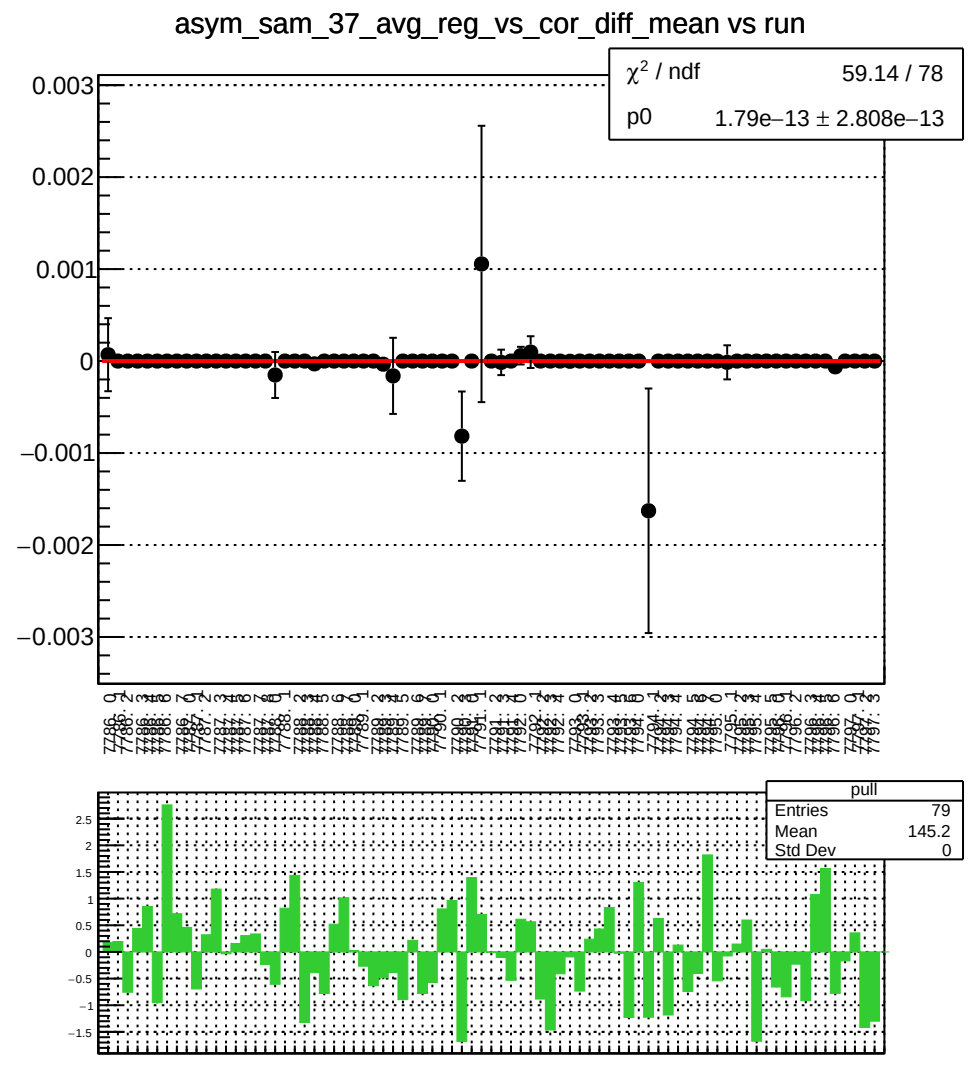

pull1D
Entries 79
Mean 0.0113
Std Dev 0.9588

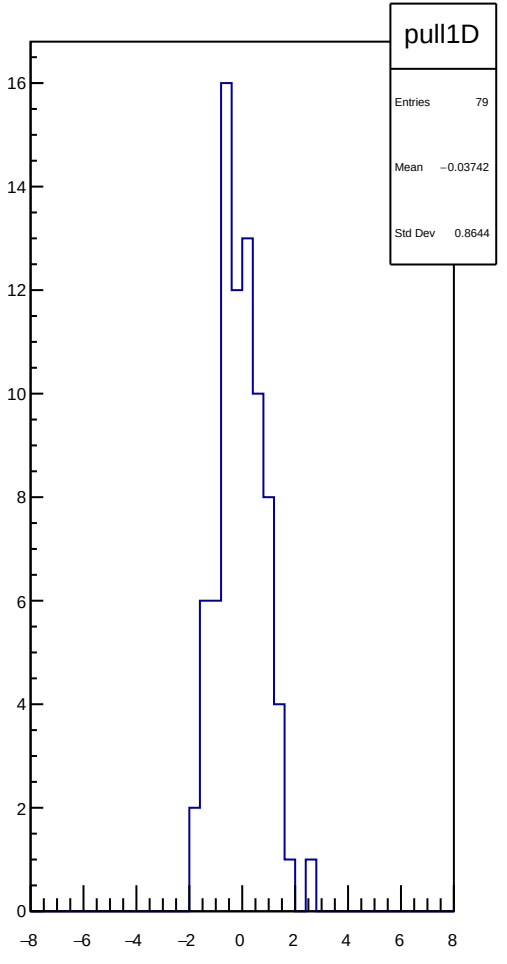

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 2328 / 78
p0 2101 ± 1.698
2300
2200
2100
2000
1900

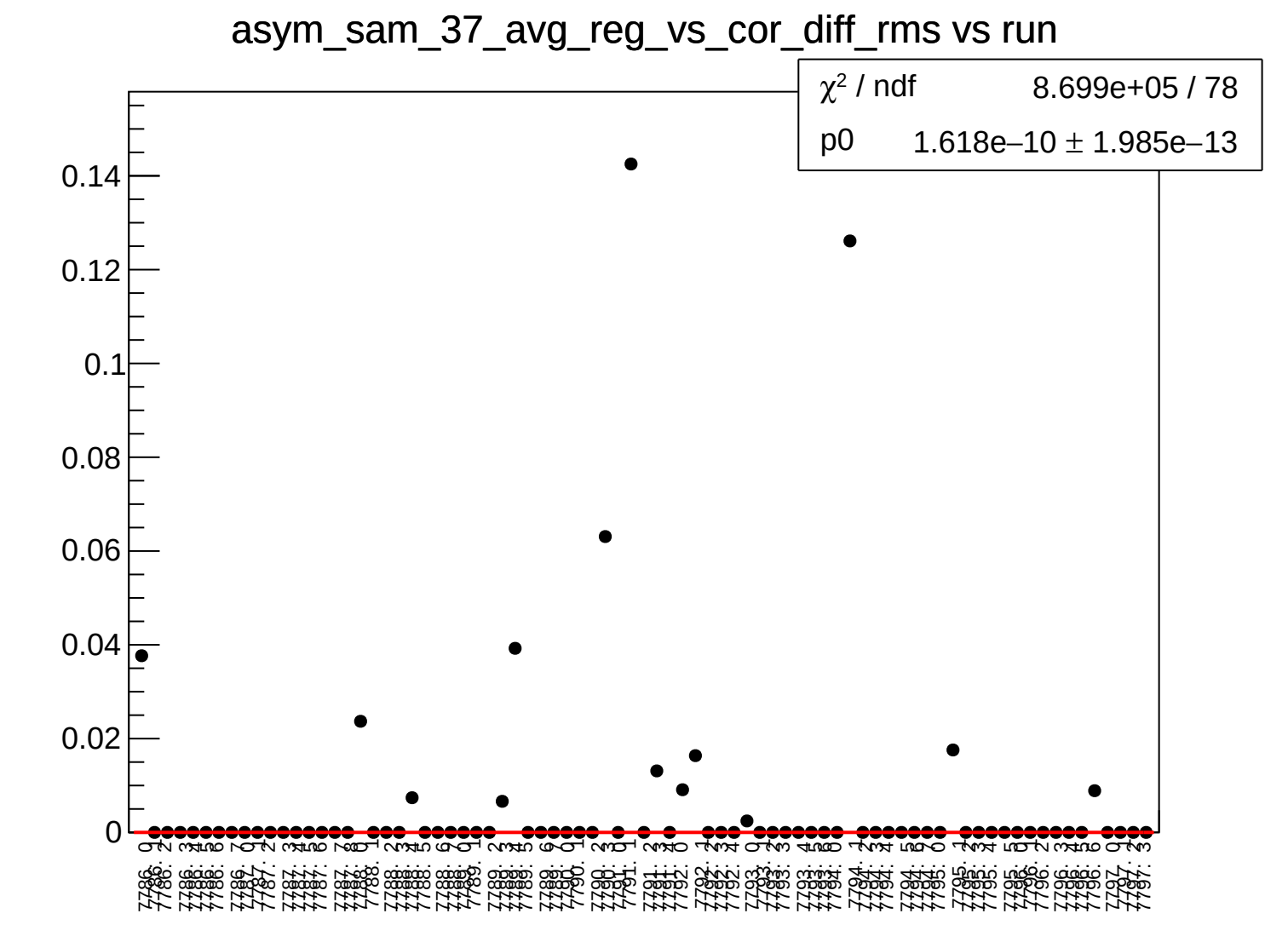

asym_sam_37_avg_mean vs run
χ² / ndf 67.45 / 78
p0 3701 ± 2450
pull
Entries 79
Mean −77.69
Std Dev 0

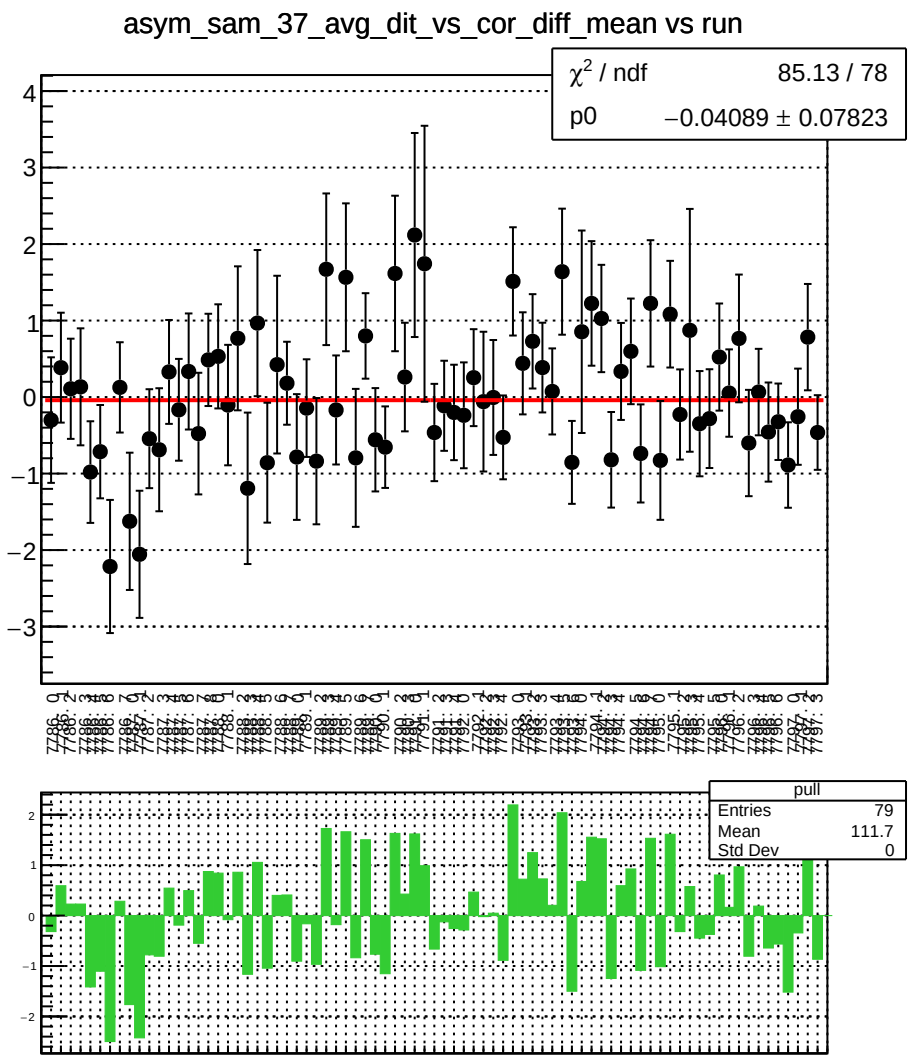

pull1D
Entries 79
Mean −0.008432
Std Dev 0.924

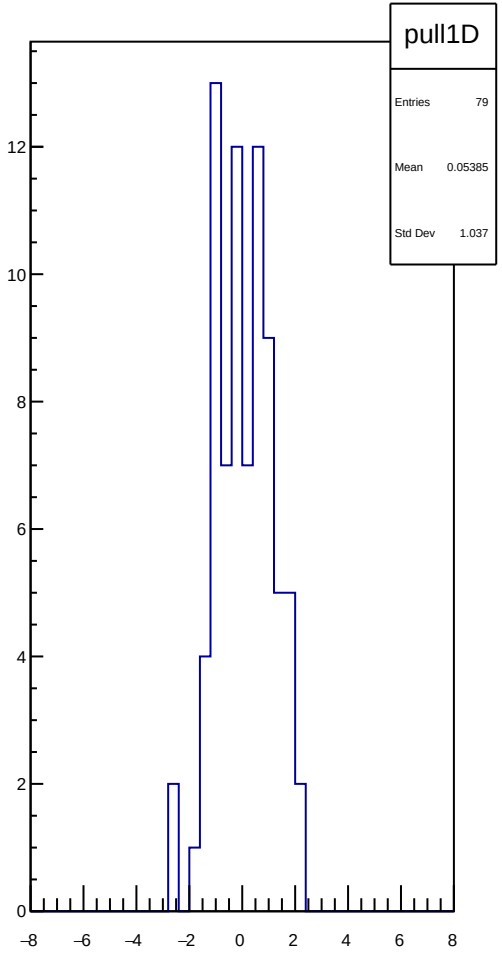

asym_sam_37_avg_rms vs run
χ² / ndf 3143 / 78
p0 2144 ± 1.733
2400
2300
2200
2100
2000
1900

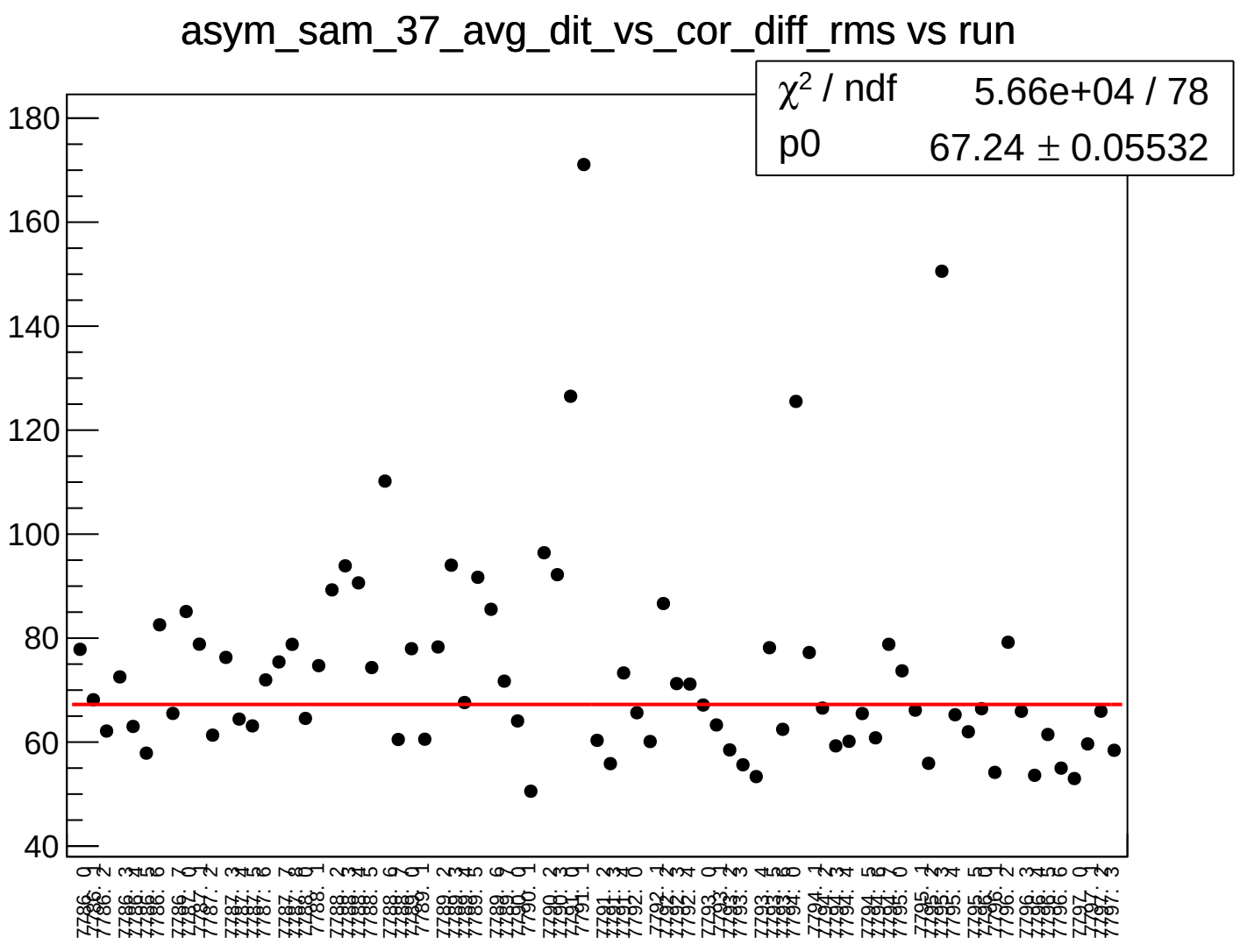

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 59.14 / 78
p0 1.79e−13 ± 2.808e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 79
Mean 145.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

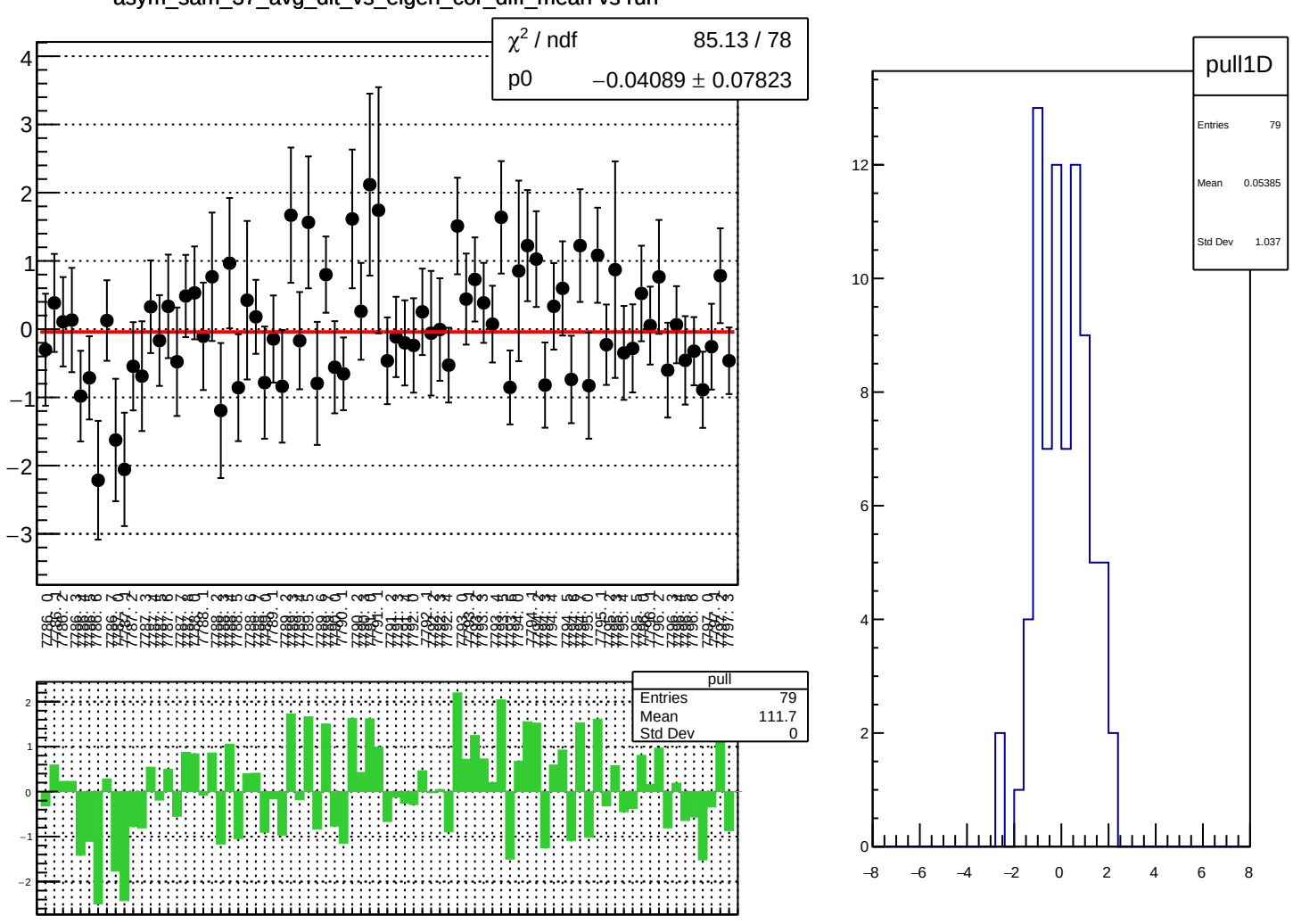

pull1D
Entries 79
Mean −0.03742
Std Dev 0.8644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

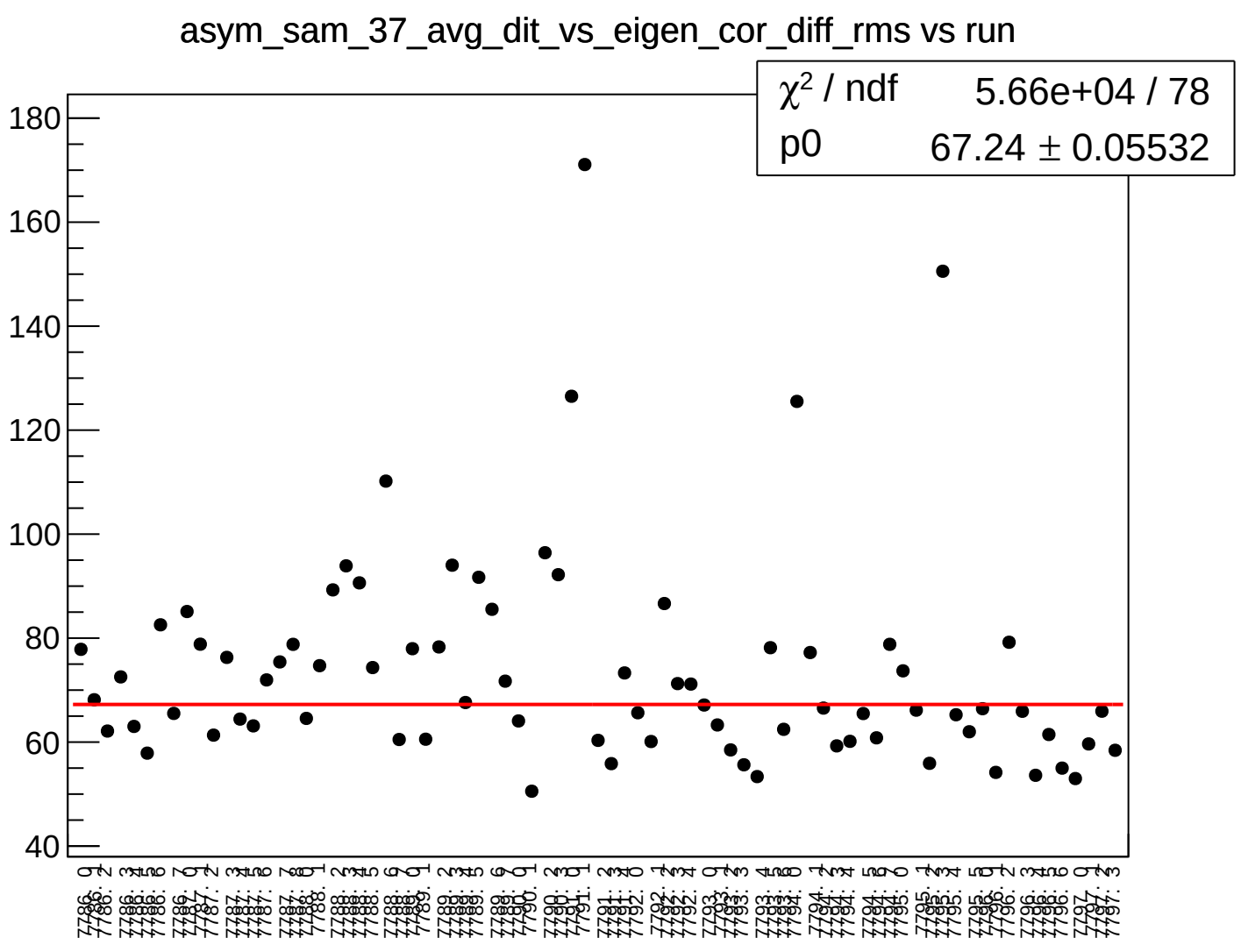

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.699e+05 / 78
p0 1.618e−10 ± 1.985e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

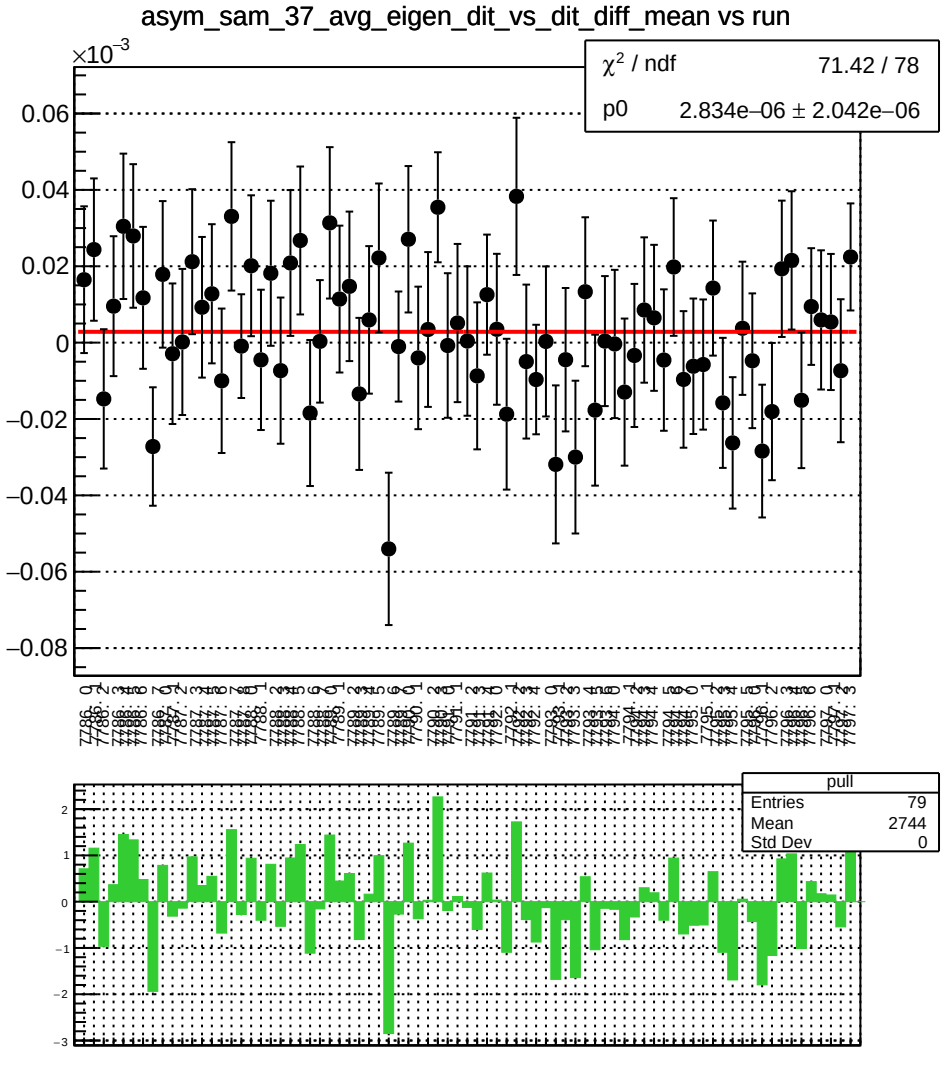

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.13 / 78
p0 −0.04089 ± 0.07823
pull
Entries 79
Mean 111.7
Std Dev 0

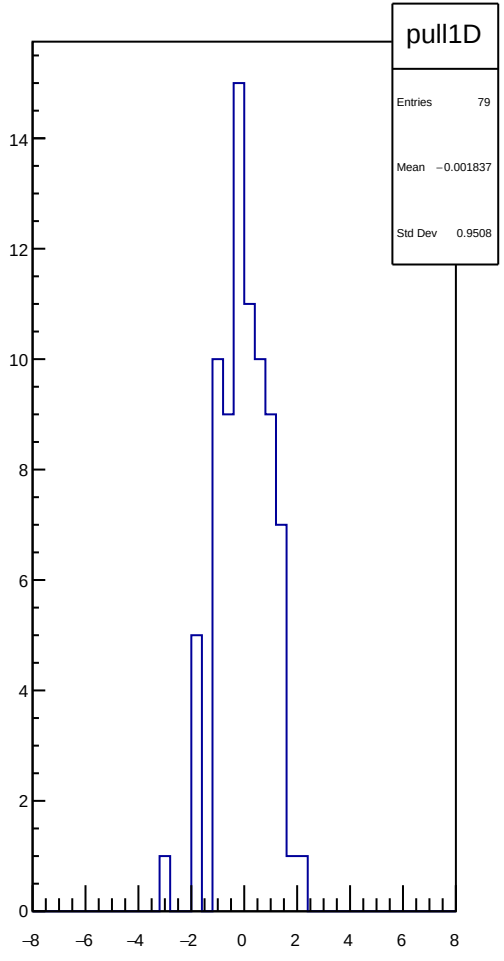

pull1D
Entries 79
Mean 0.05385
Std Dev 1.037

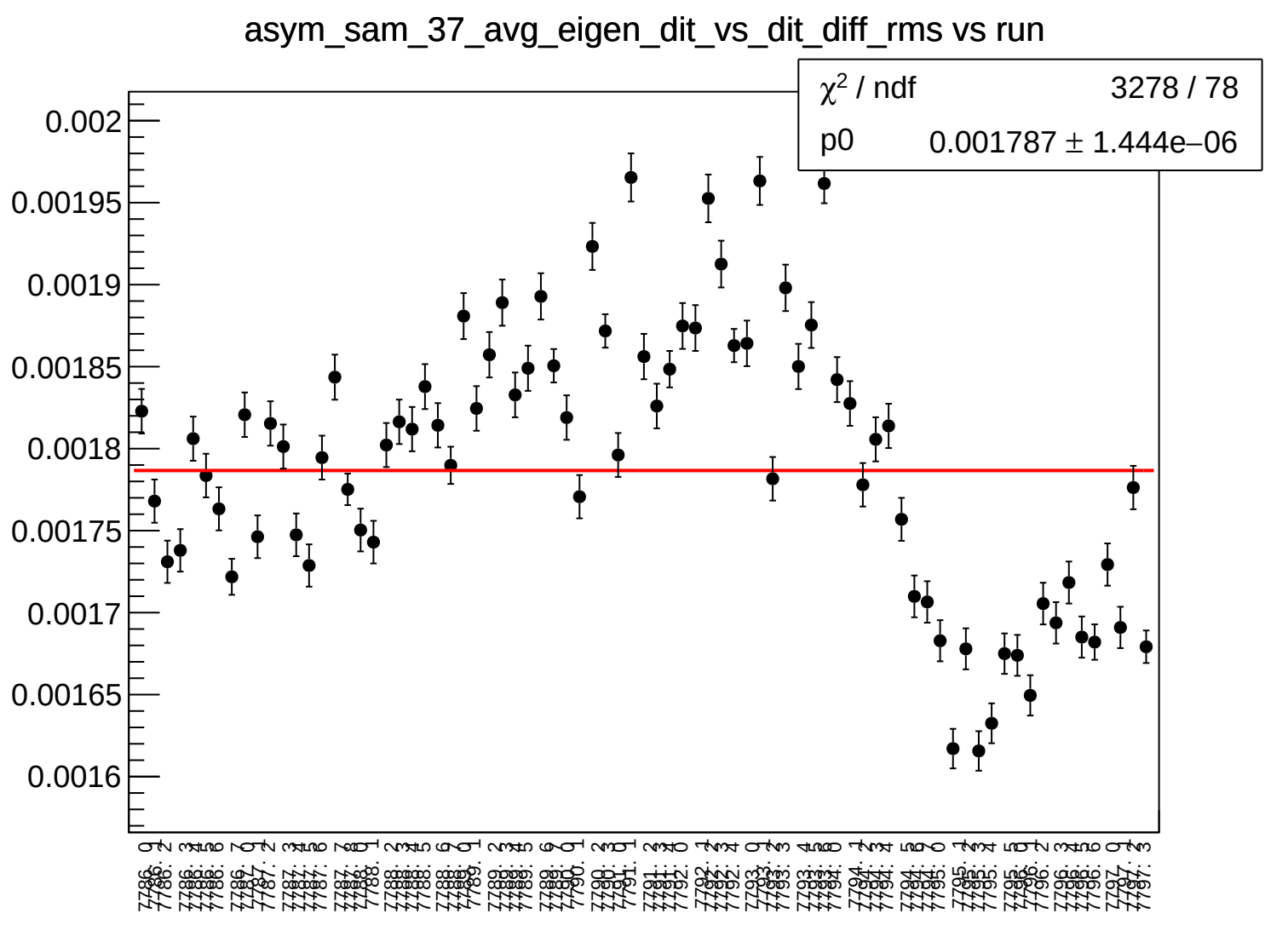

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.66e+04 / 78
p0 67.24 ± 0.05532
180
160
140
120
100
80
60
40

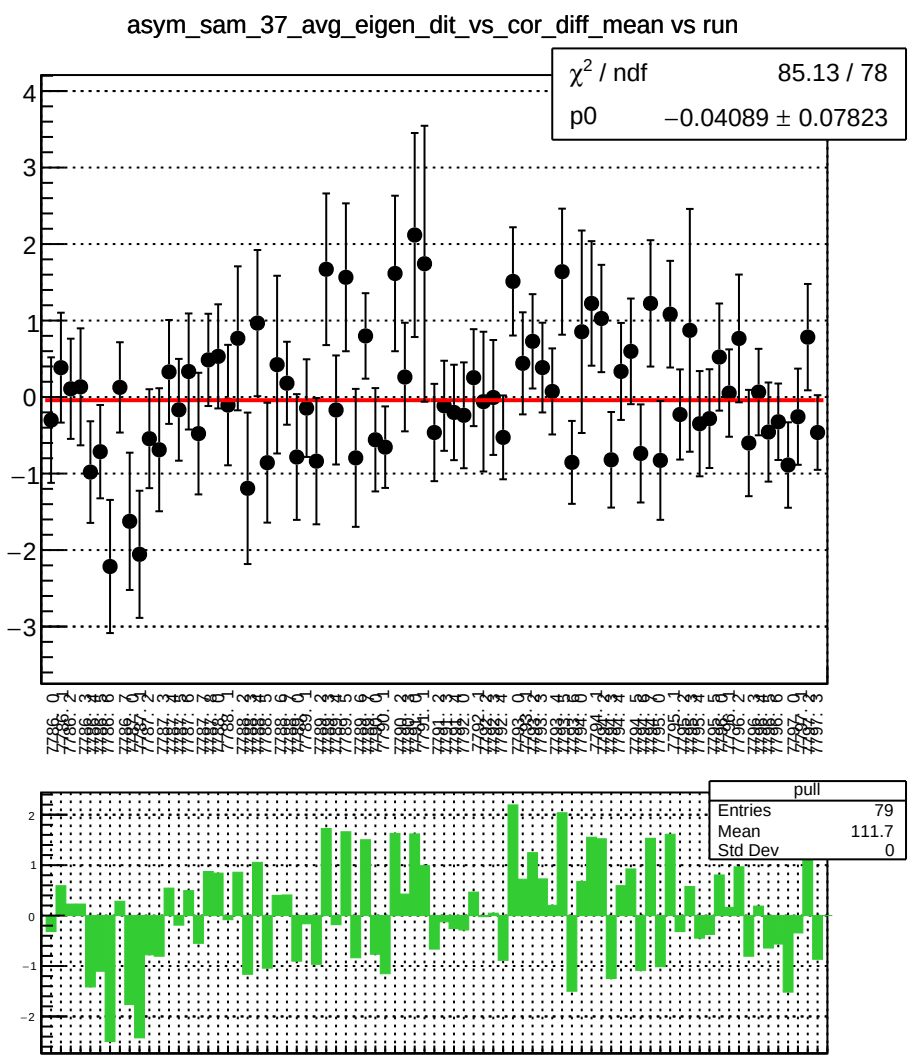

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.13 / 78
p0 −0.04089 ± 0.07823
pull
Entries 79
Mean 111.7
Std Dev 0
pull1D
Entries 79
Mean 0.05385
Std Dev 1.037

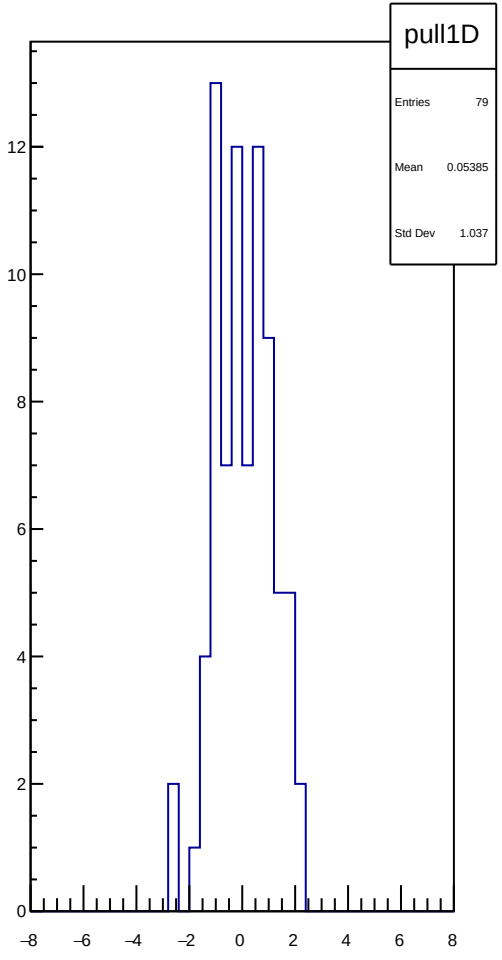

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.66e+04 / 78
p0 67.24 ± 0.05532
180
160
140
120
100
80
60
40

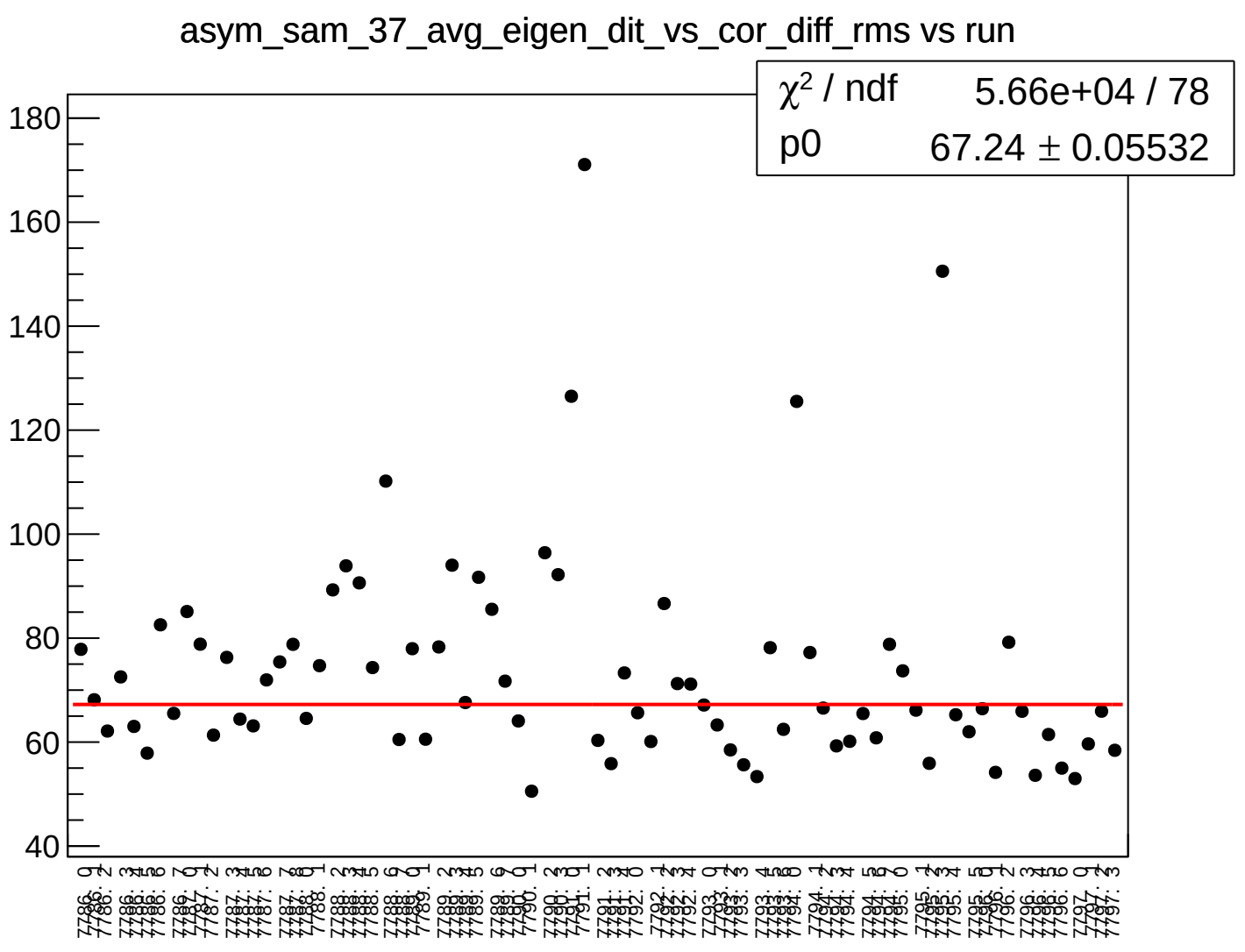

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.42 / 78
p0 2.834e−06 ± 2.042e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 79
Mean 2744
Std Dev 0
2
1
0
−1
−2
−3

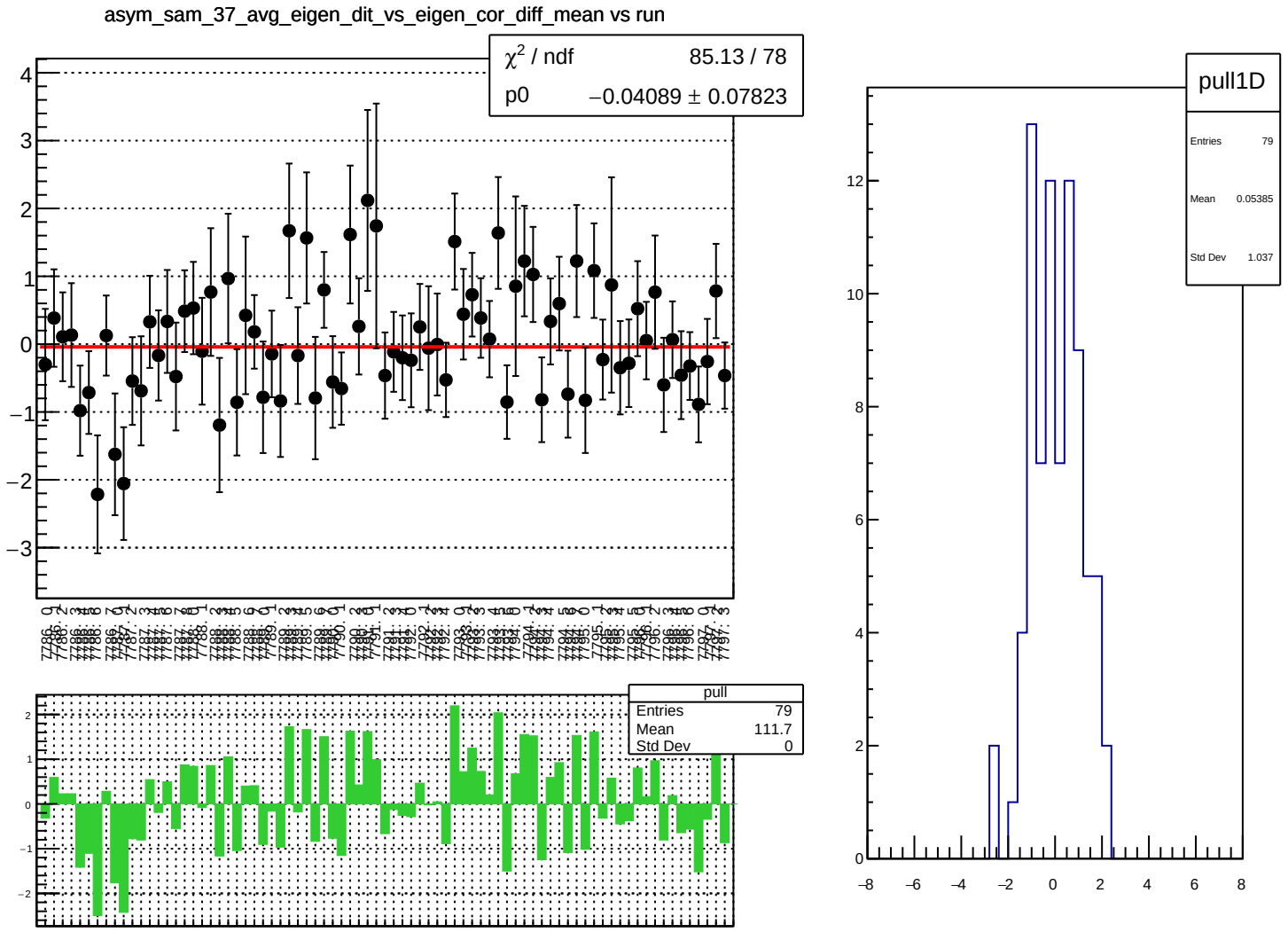

pull1D
Entries 79
Mean −0.001837
Std Dev 0.9508
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

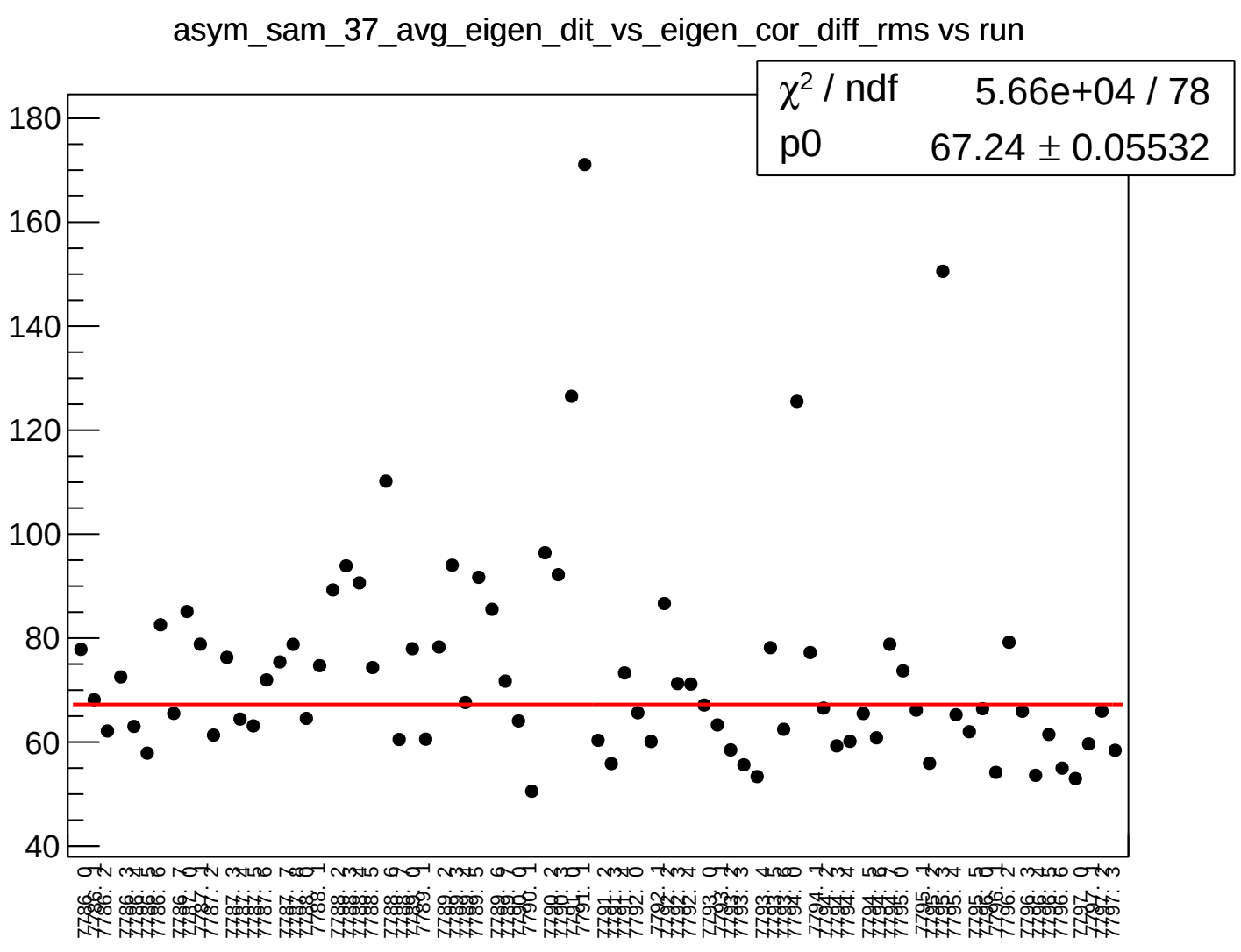

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3278 / 78
p0 0.001787 ± 1.444e−06
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016

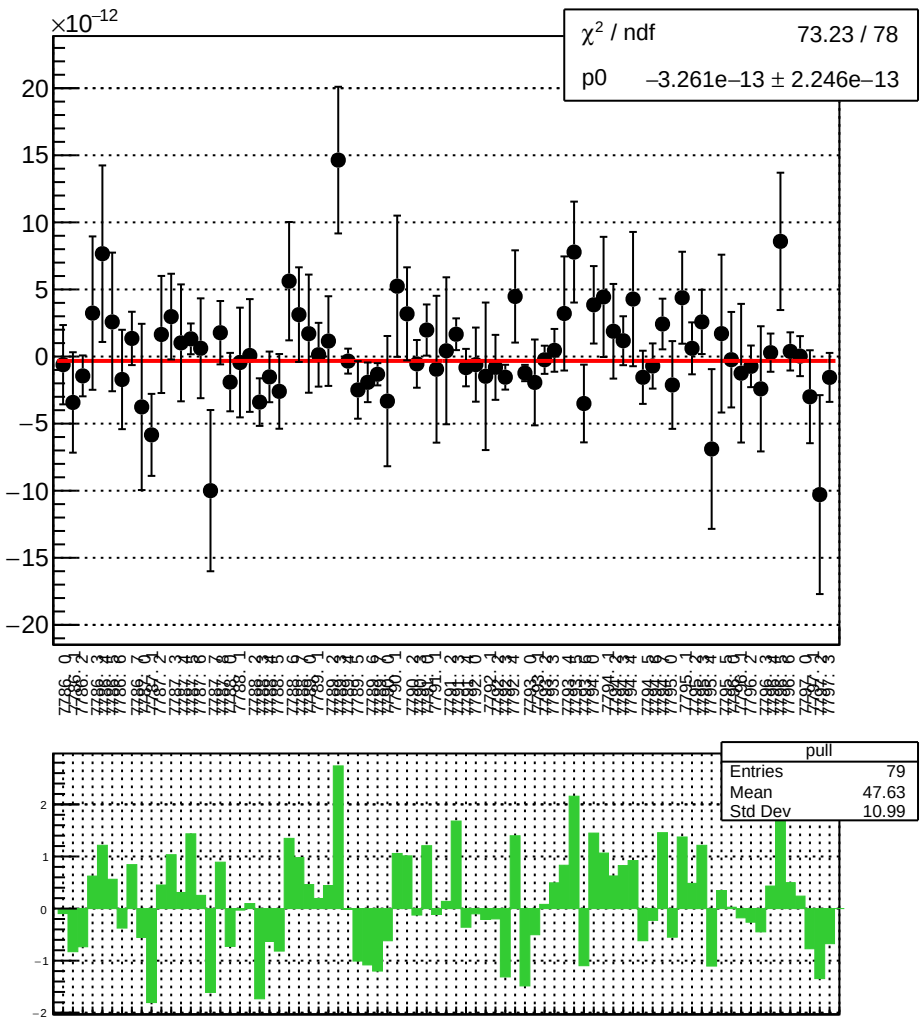

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.13 / 78
p0 −0.04089 ± 0.07823
pull
Entries 79
Mean 111.7
Std Dev 0

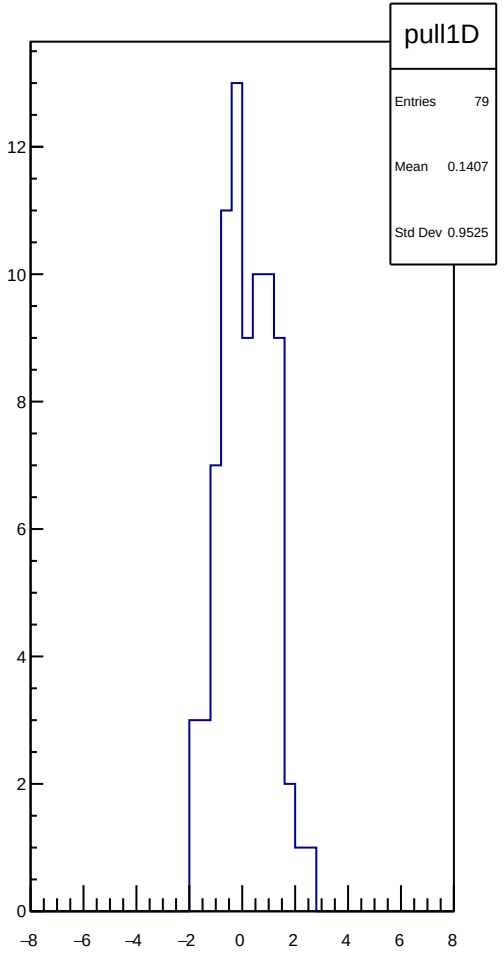

pull1D
Entries 79
Mean 0.05385
Std Dev 1.037

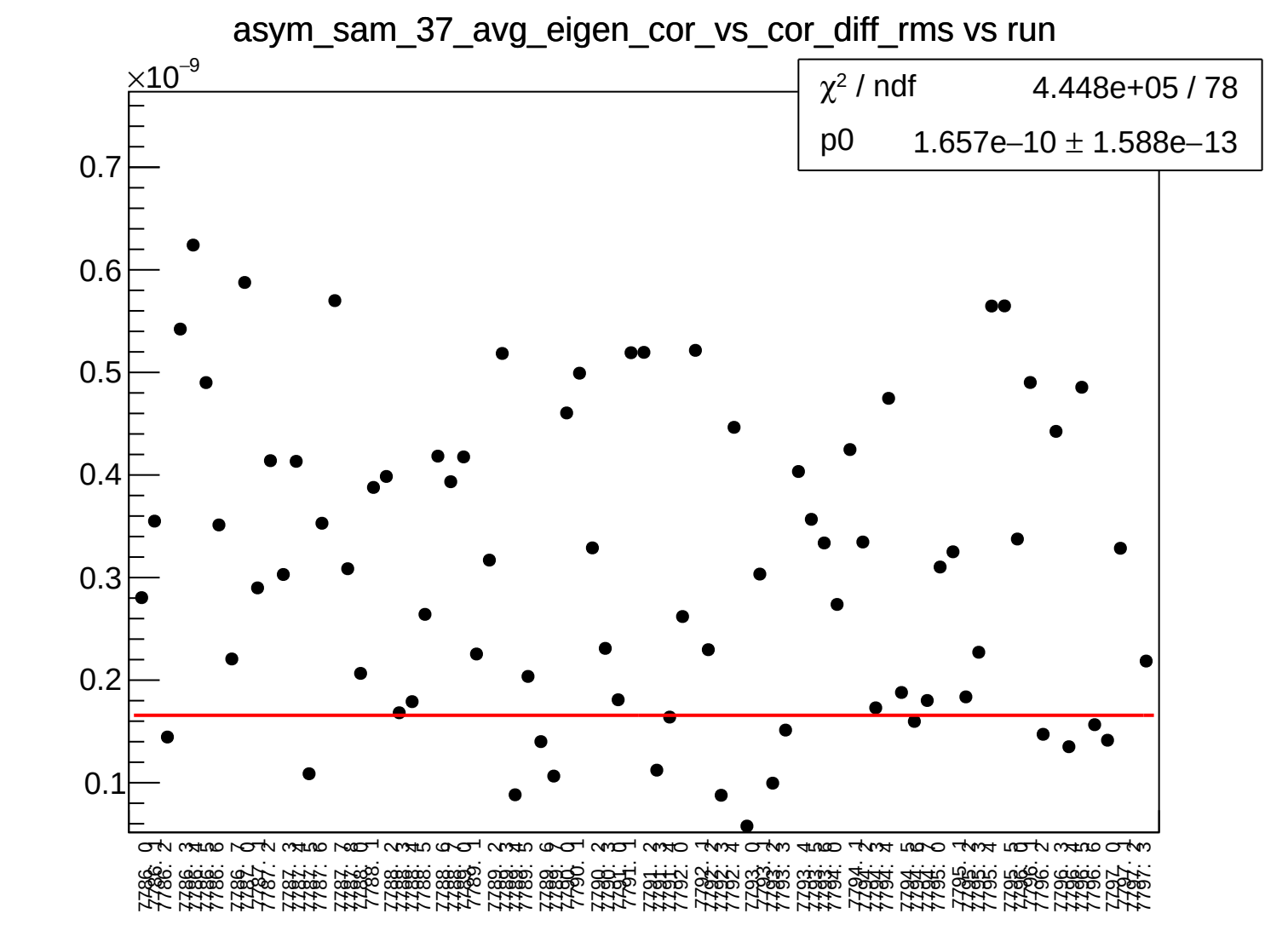

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.66e+04 / 78
p0 67.24 ± 0.05532
180
160
140
120
100
80
60
40

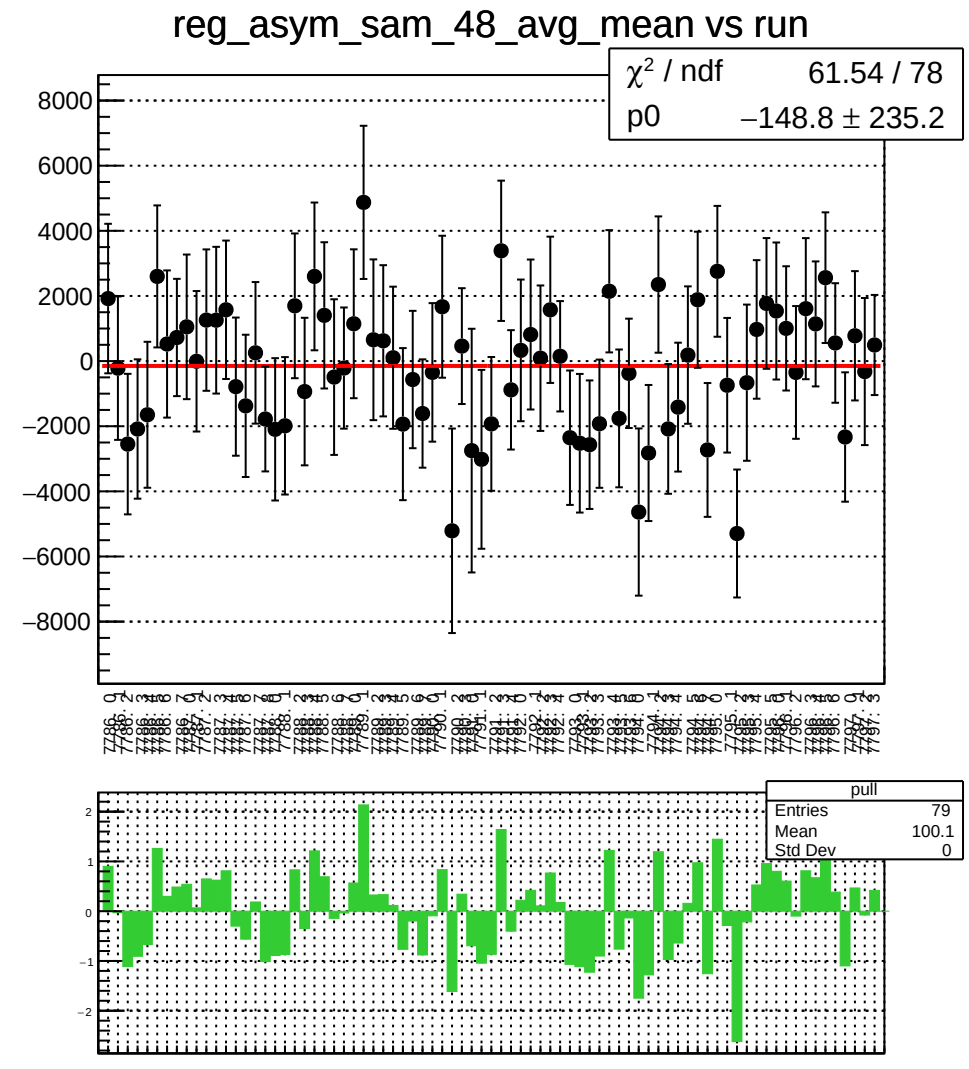

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.13 / 78
p0 −0.04089 ± 0.07823
pull
Entries 79
Mean 111.7
Std Dev 0
pull1D
Entries 79
Mean 0.05385
Std Dev 1.037

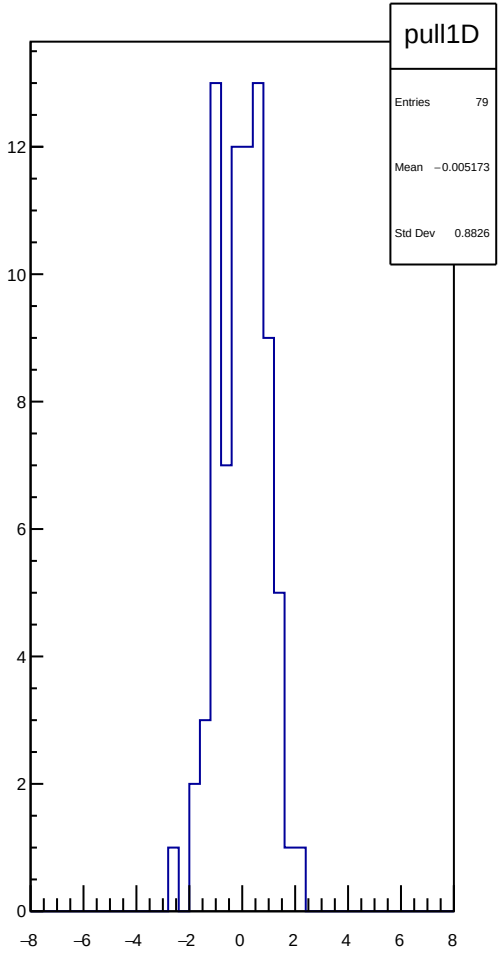

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.66e+04 / 78
p0 67.24 ± 0.05532
180
160
140
120
100
80
60
40

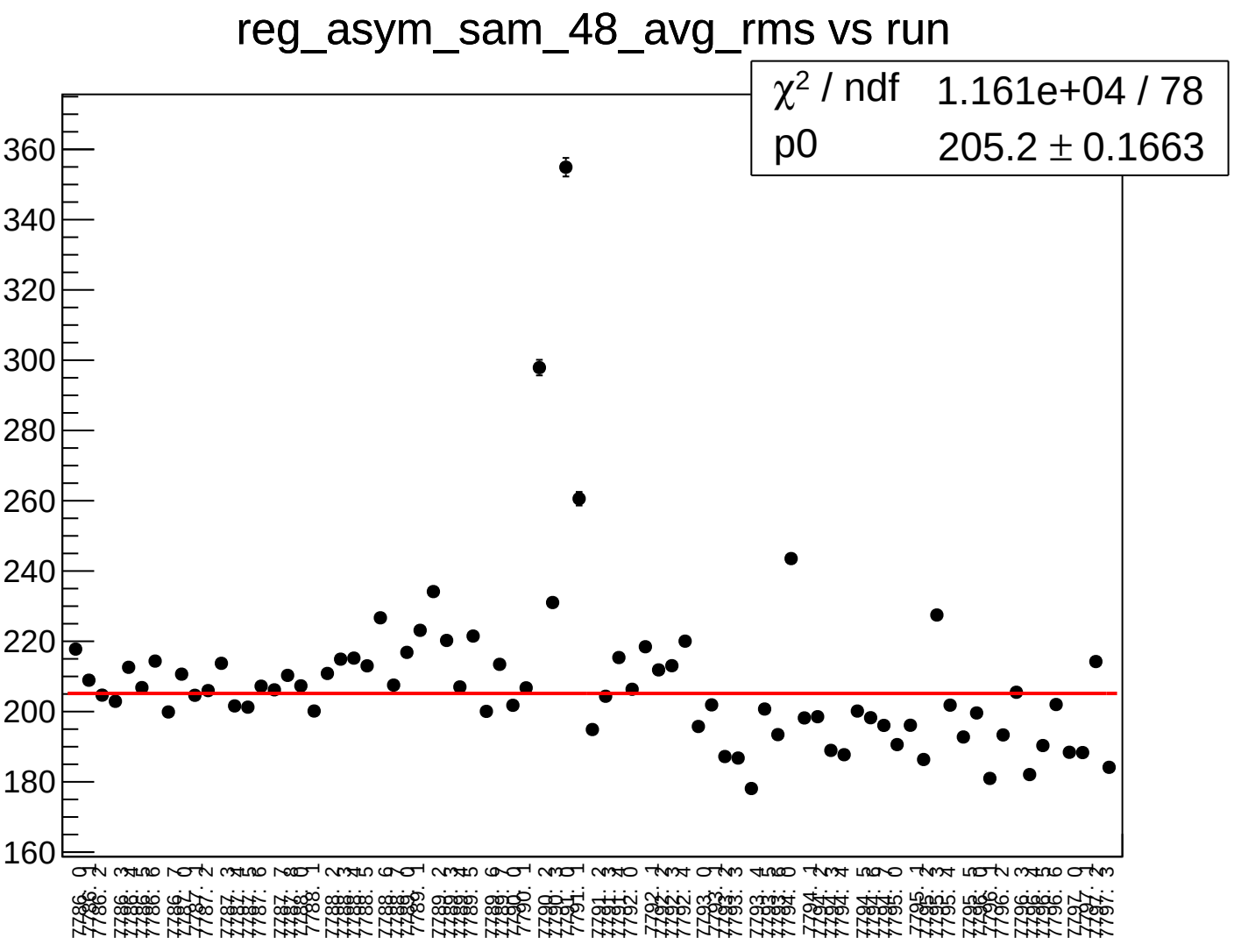

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.23 / 78
p0 −3.261e−13 ± 2.246e−13
pull
Entries 79
Mean 47.63
Std Dev 10.99

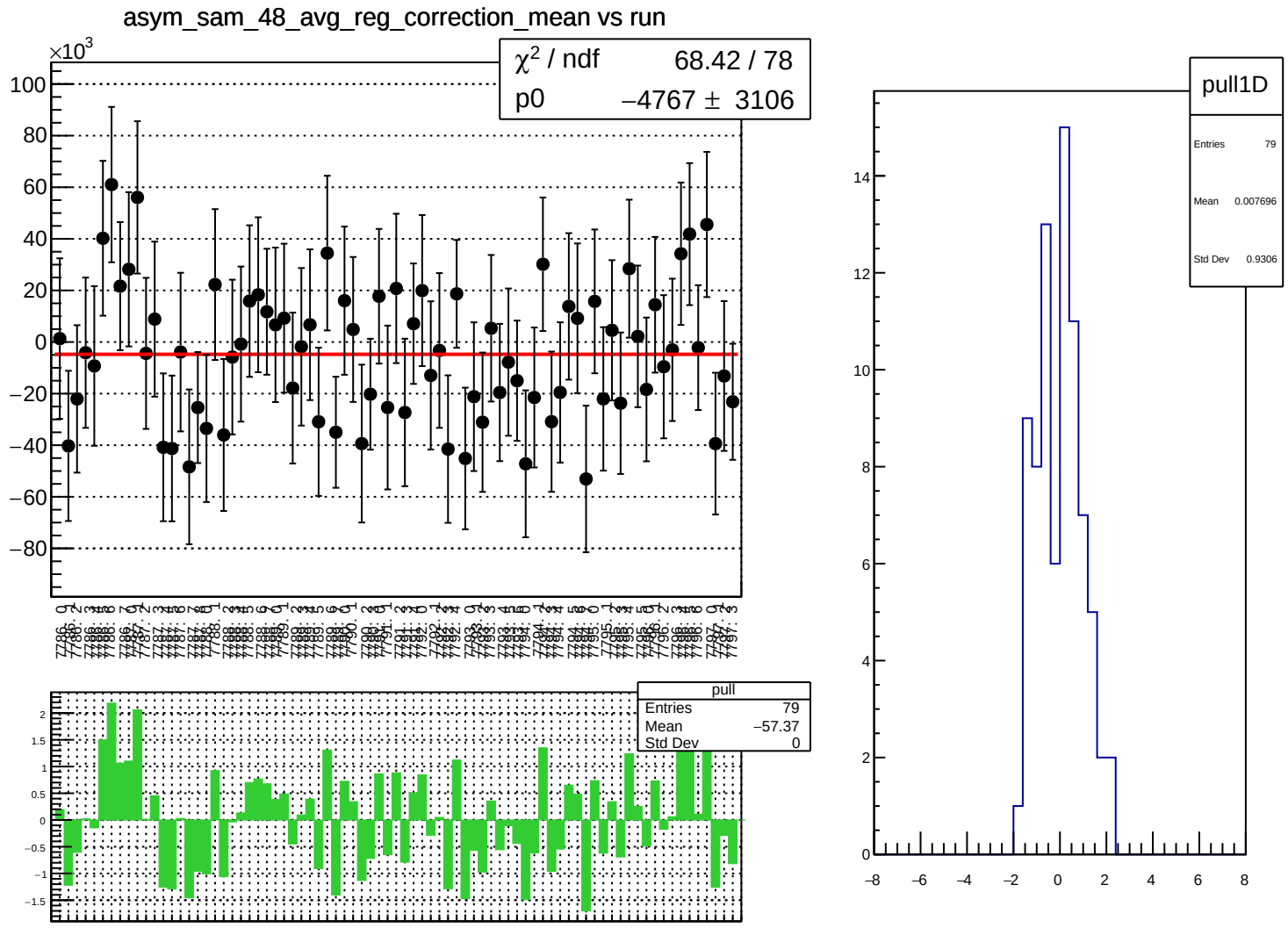

pull1D
Entries 79
Mean 0.1407
Std Dev 0.9525

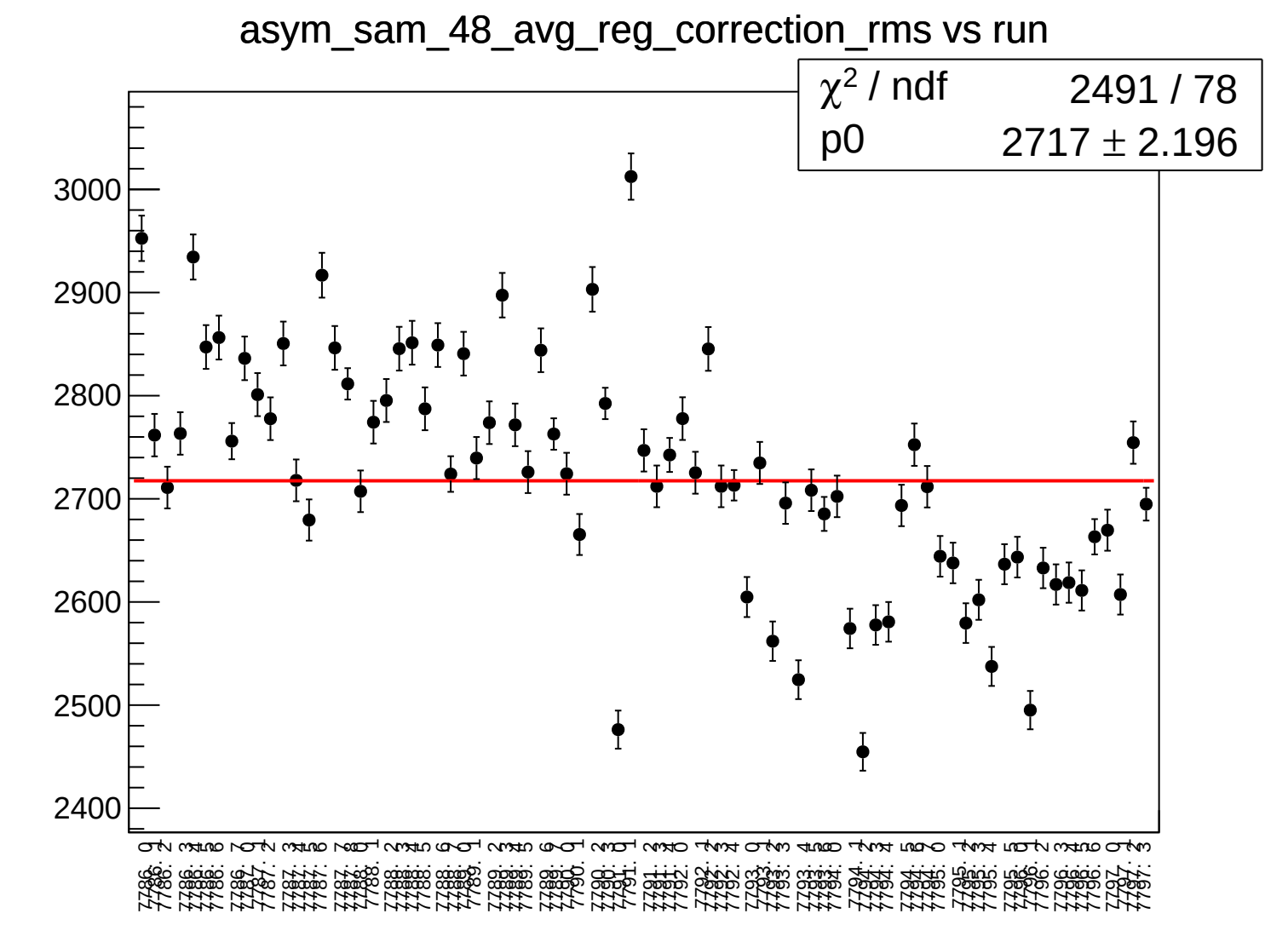

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.448e+05 / 78
p0 1.657e−10 ± 1.588e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

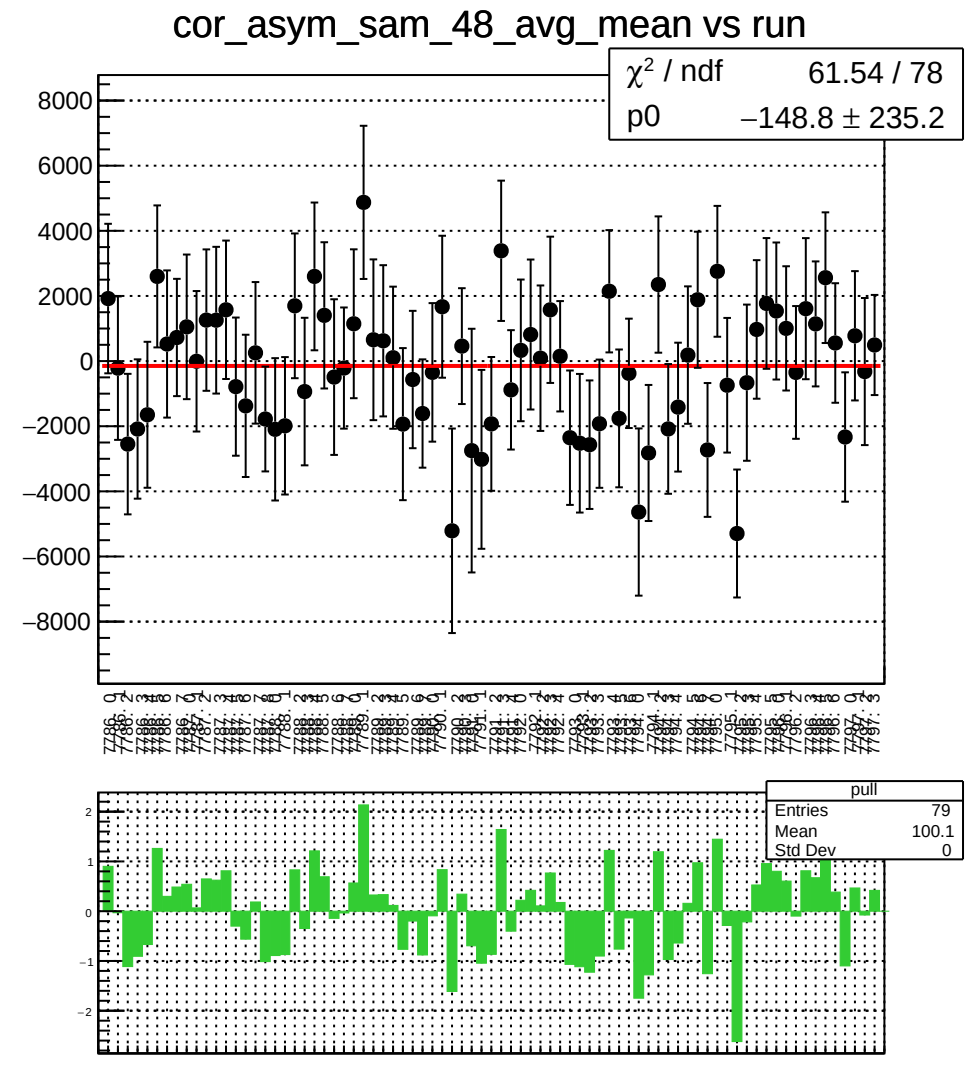

reg_asym_sam_48_avg_mean vs run
χ² / ndf 61.54 / 78
p0 −148.8 ± 235.2
pull
Entries 79
Mean 100.1
Std Dev 0

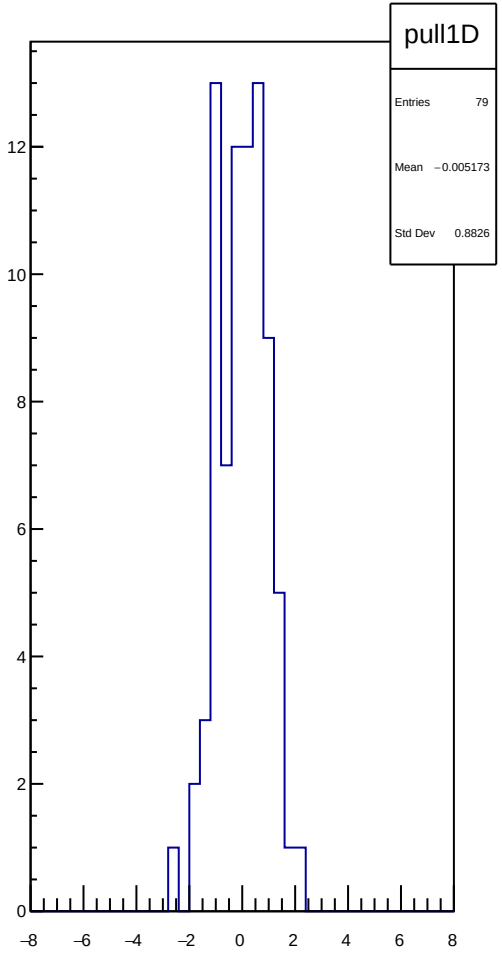

pull1D
Entries 79
Mean −0.005173
Std Dev 0.8826

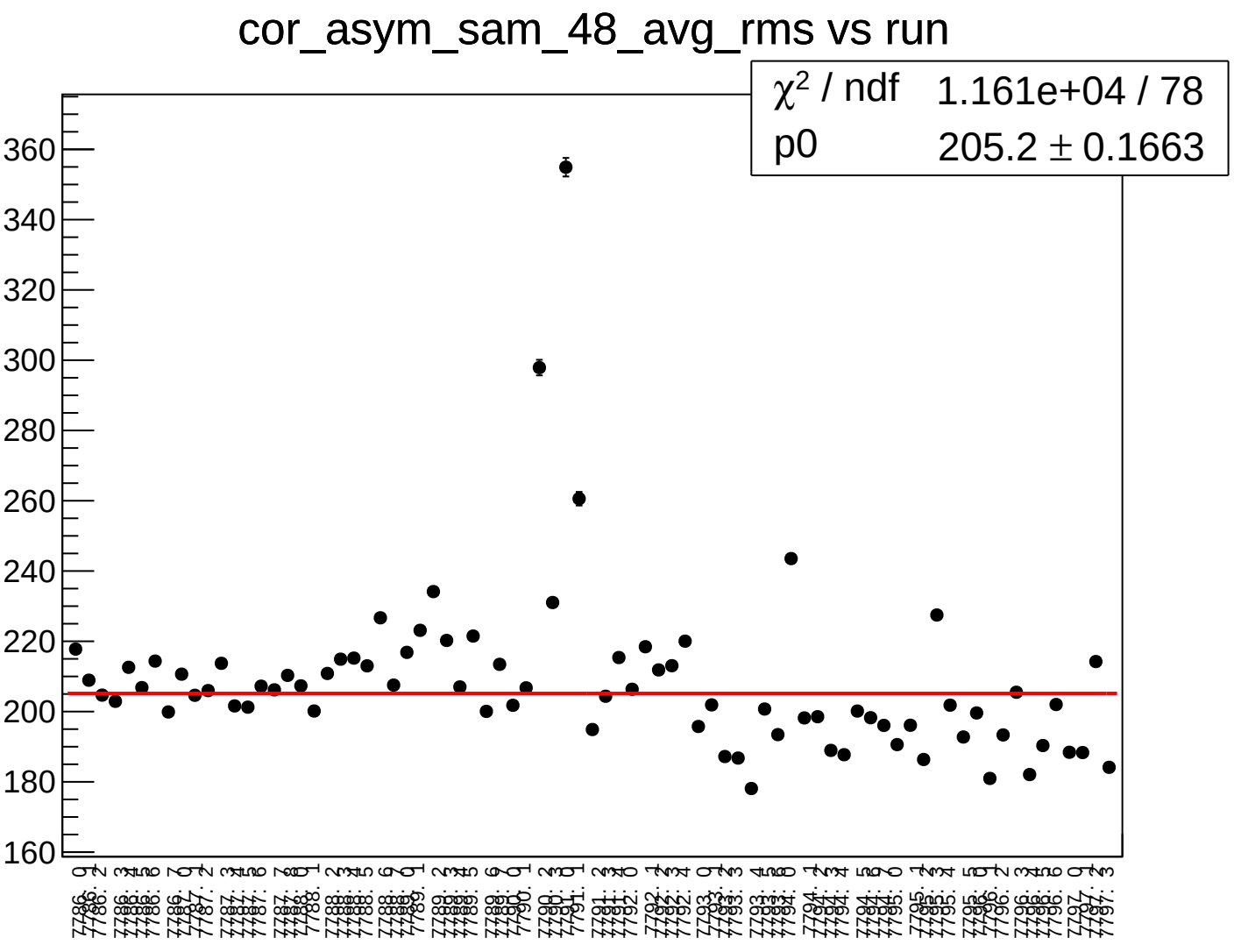

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.161e+04 / 78
p0 205.2 ± 0.1663
360
340
320
300
280
260
240
220
200
180
160

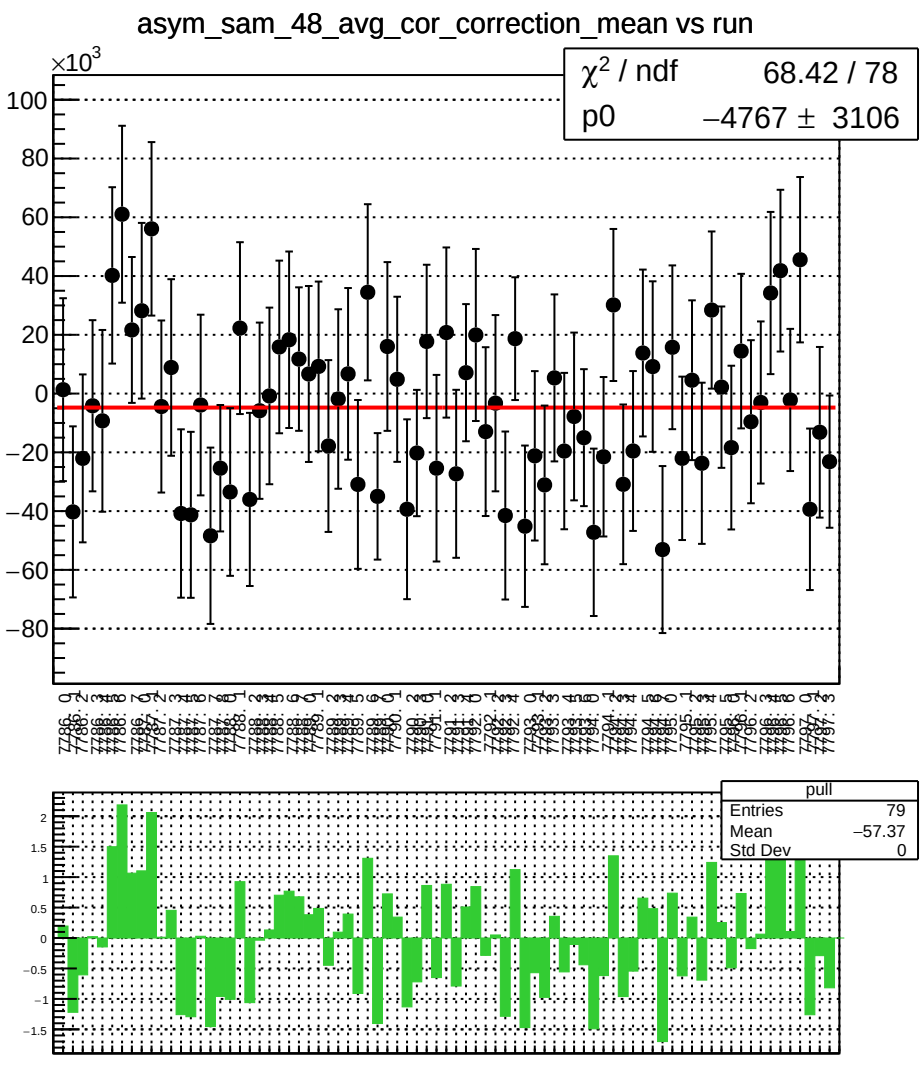

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 68.42 / 78
p0 −4767 ± 3106
pull
Entries 79
Mean −57.37
Std Dev 0
pull1D
Entries 79
Mean 0.007696
Std Dev 0.9306

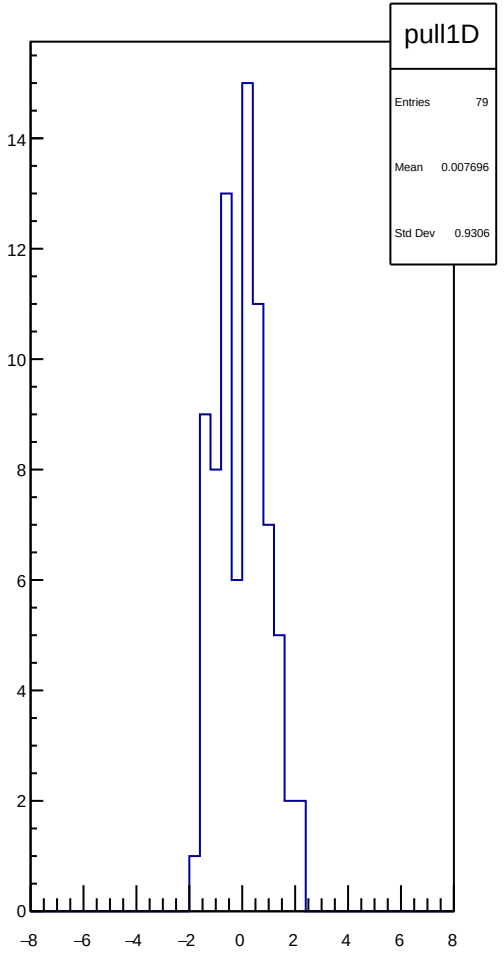

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2491 / 78
p0 2717 ± 2.196
3000
2900
2800
2700
2600
2500
2400

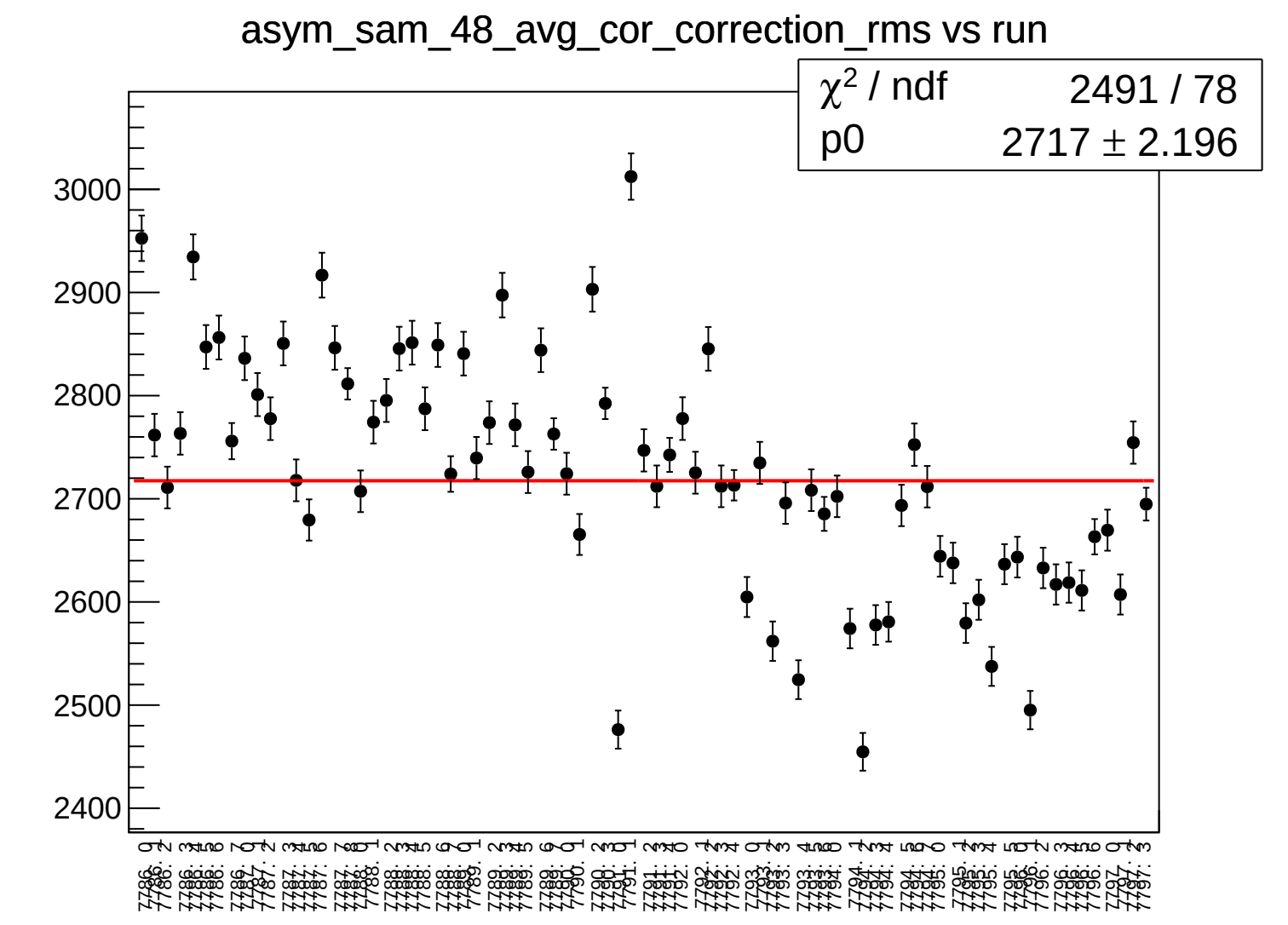

cor_asym_sam_48_avg_mean vs run
χ² / ndf 61.54 / 78
p0 −148.8 ± 235.2
pull
Entries 79
Mean 100.1
Std Dev 0

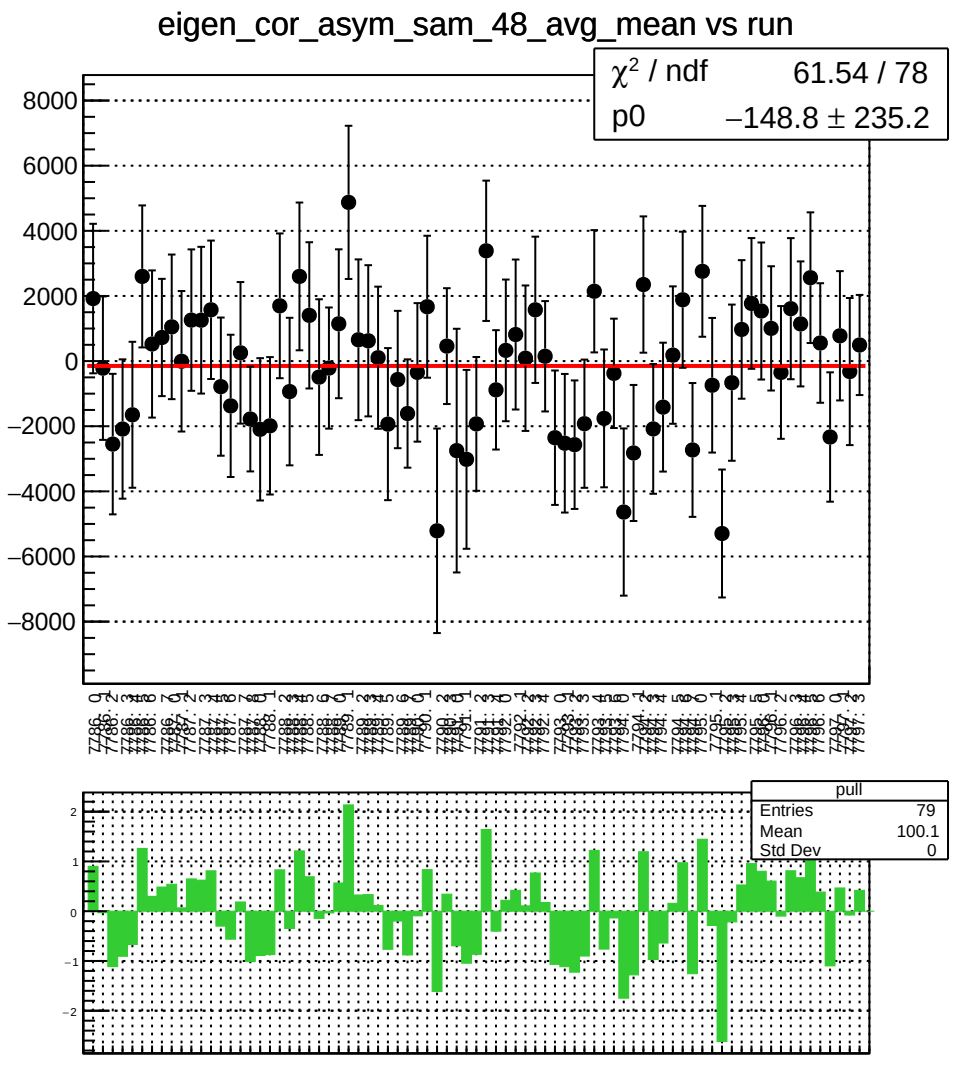

pull1D
Entries 79
Mean −0.005173
Std Dev 0.8826

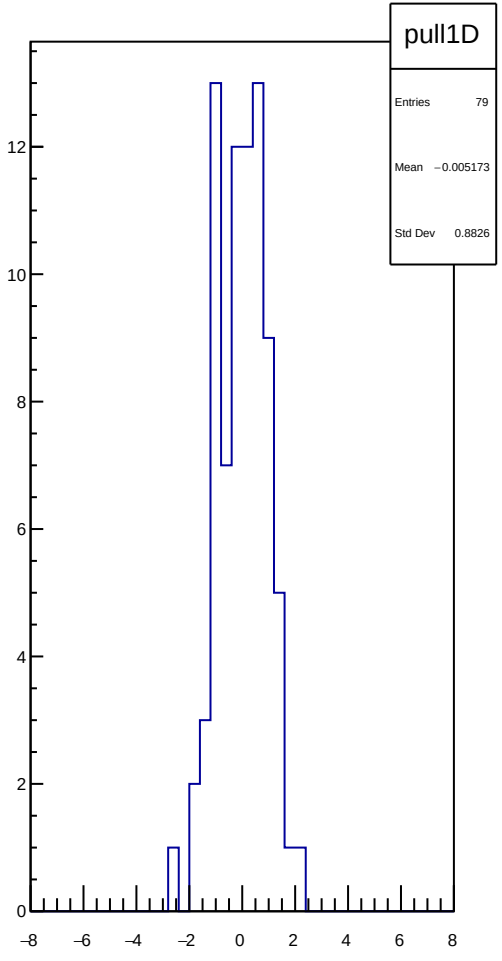

cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.161e+04 / 78
p0 205.2 ± 0.1663
360
340
320
300
280
260
240
220
200
180
160

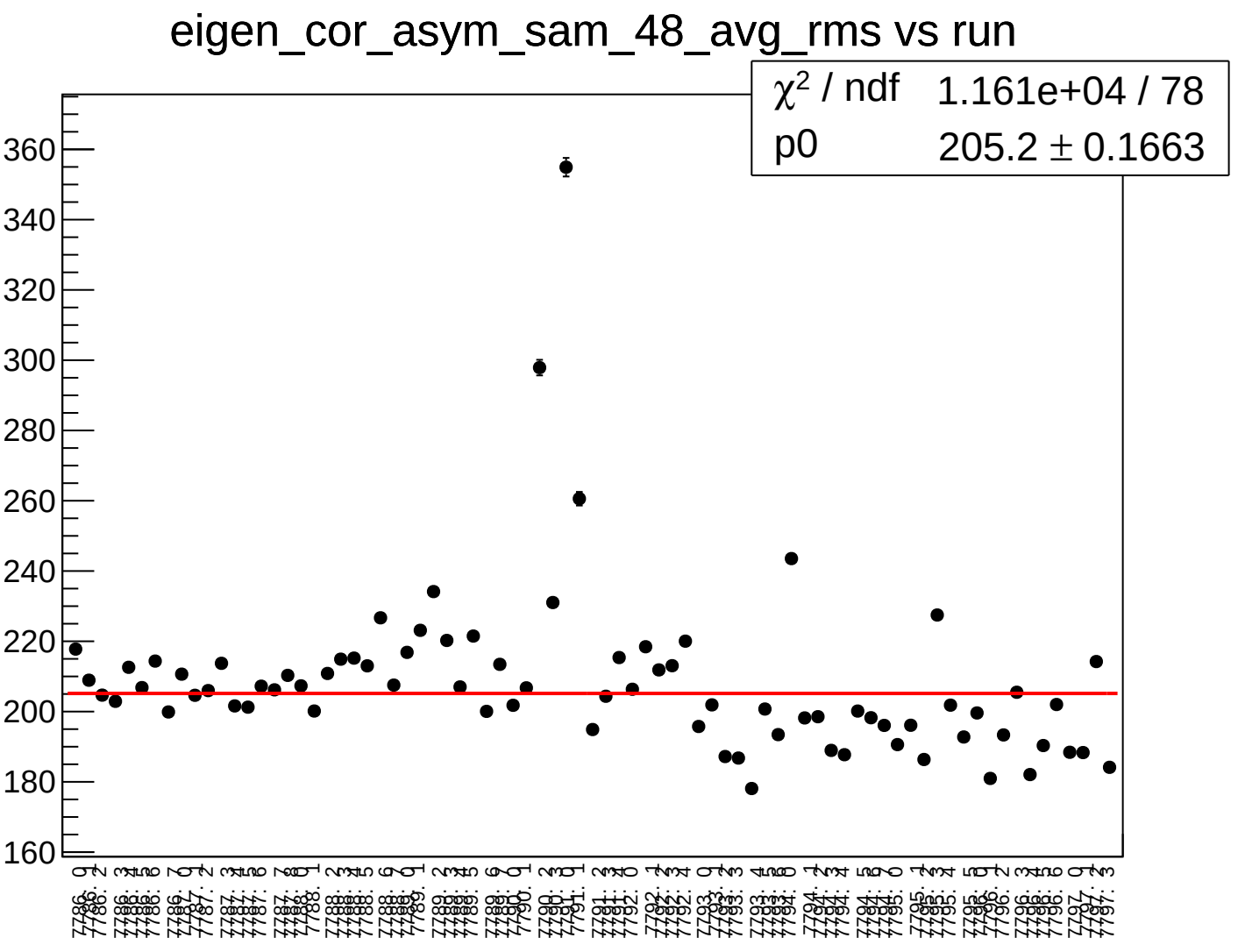

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 68.42 / 78
p0 −4767 ± 3106
pull
Entries 79
Mean −57.37
Std Dev 0

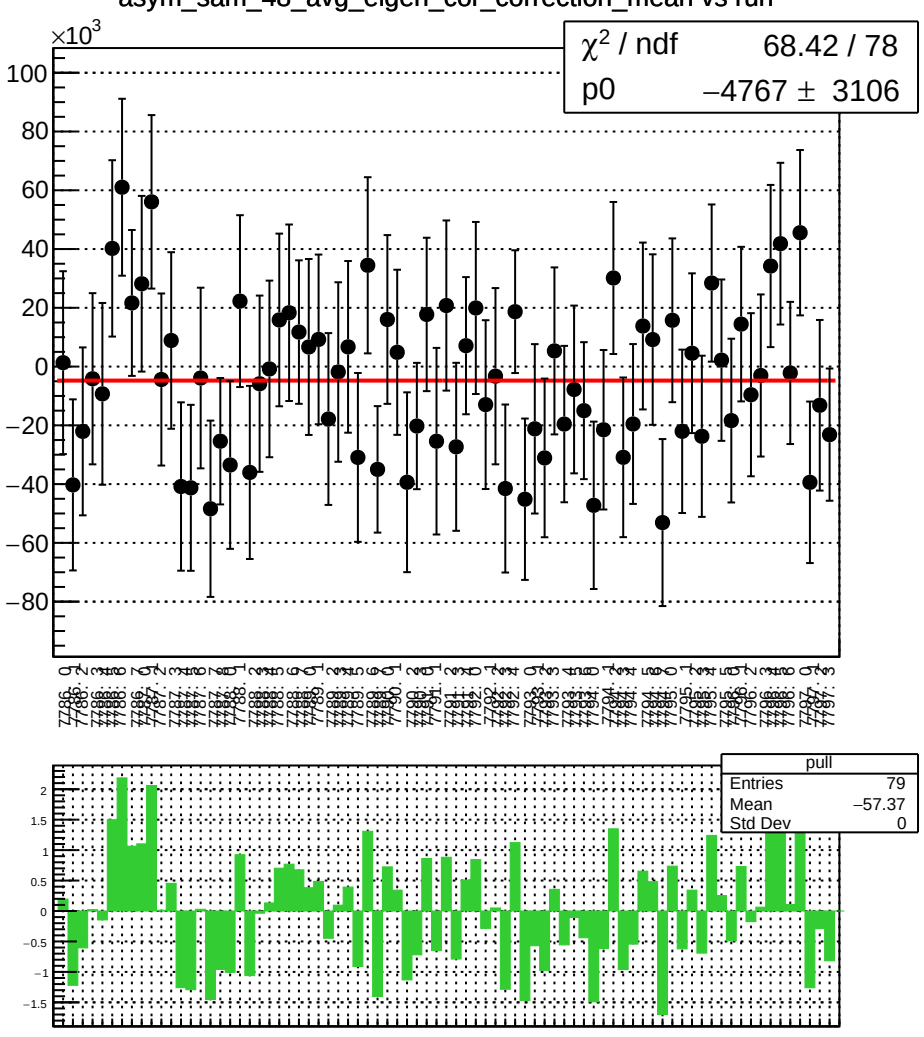

pull1D
Entries 79
Mean 0.007696
Std Dev 0.9306

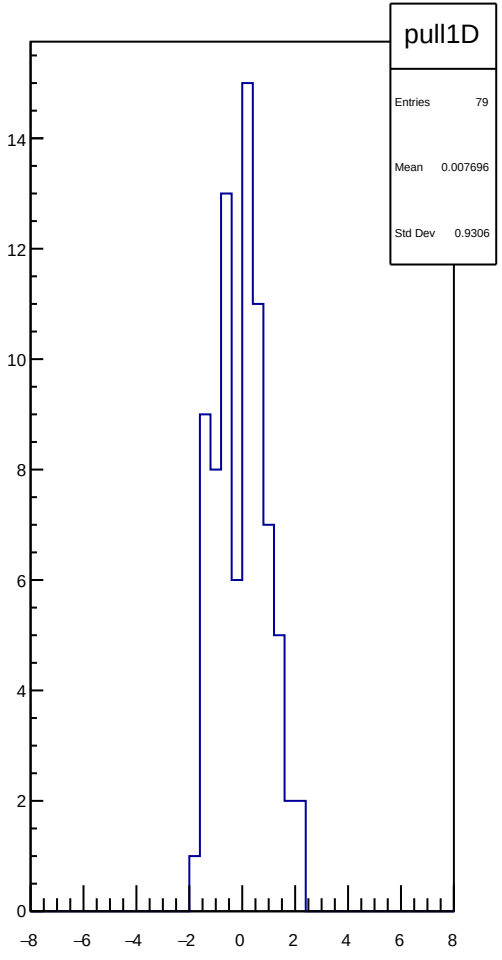

asym_sam_48_avg_cor_correction_rms vs run
χ^2 / ndf 2491 / 78
p0 2717 ± 2.196
3000
2900
2800
2700
2600
2500
2400

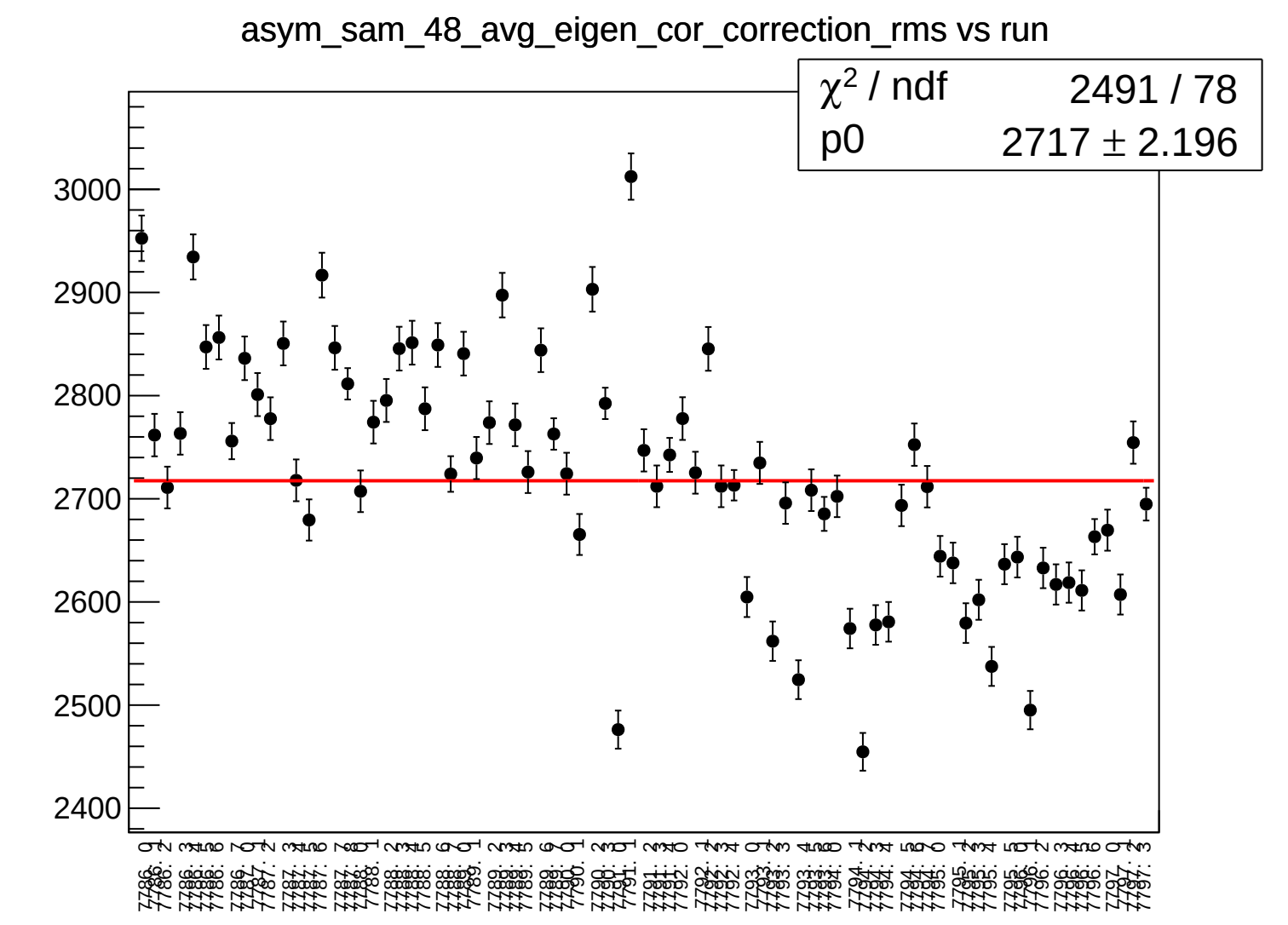

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 61.54 / 78
p0 −148.8 ± 235.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 79
Mean 100.1
Std Dev 0
2
1
0
−1
−2

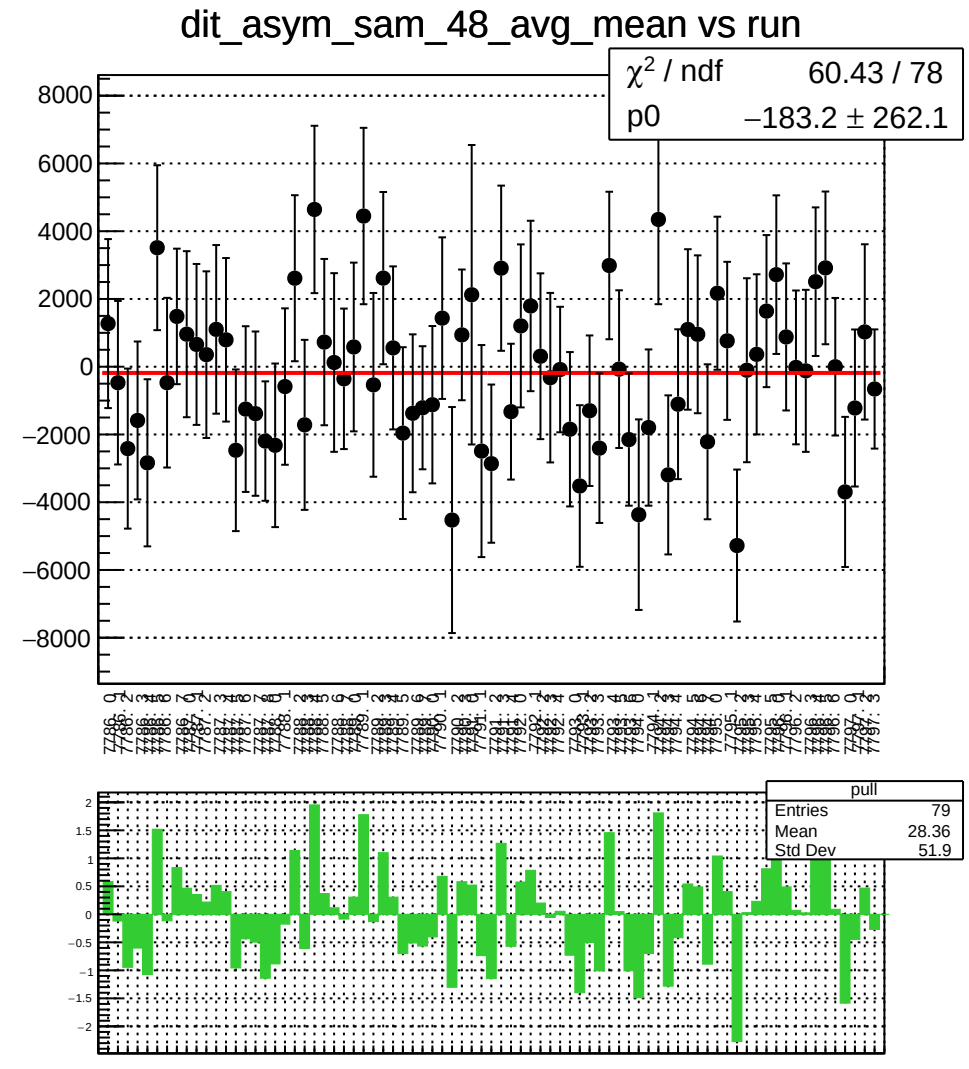

pull1D
Entries 79
Mean −0.005173
Std Dev 0.8826
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

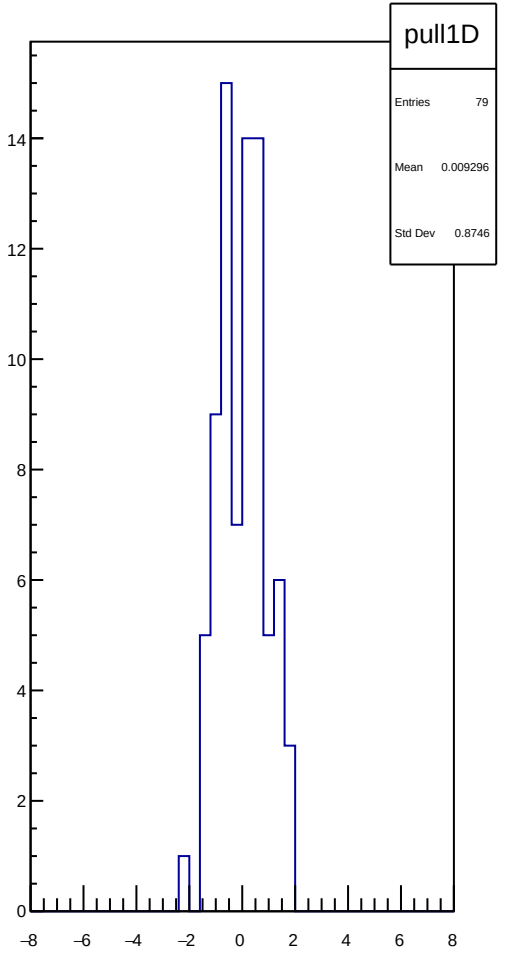

eigen_cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.161e+04 / 78
p0 205.2 ± 0.1663
360
340
320
300
280
260
240
220
200
180
160

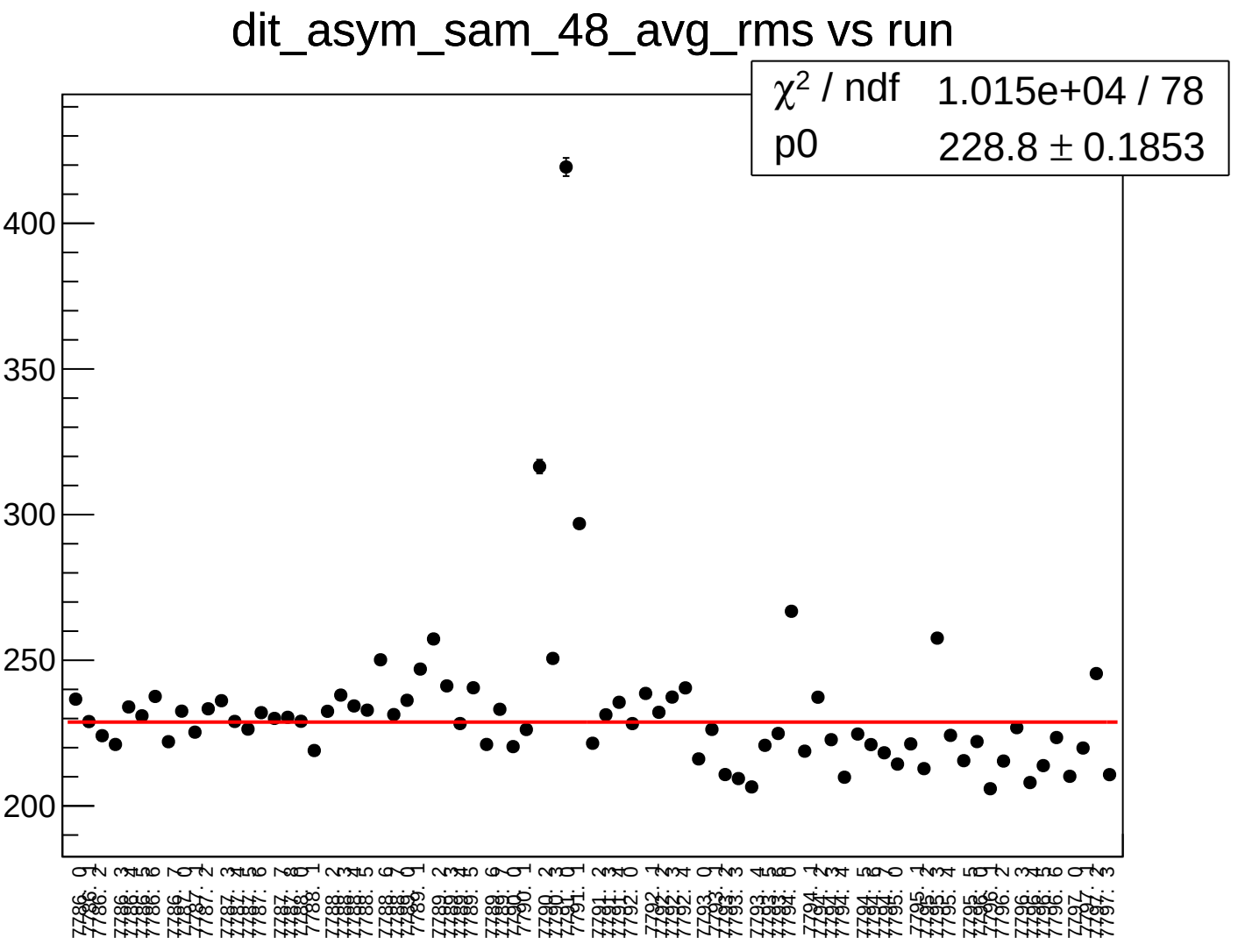

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.42 / 78
p0 −4767 ± 3106
pull
Entries 79
Mean −57.37
Std Dev 0

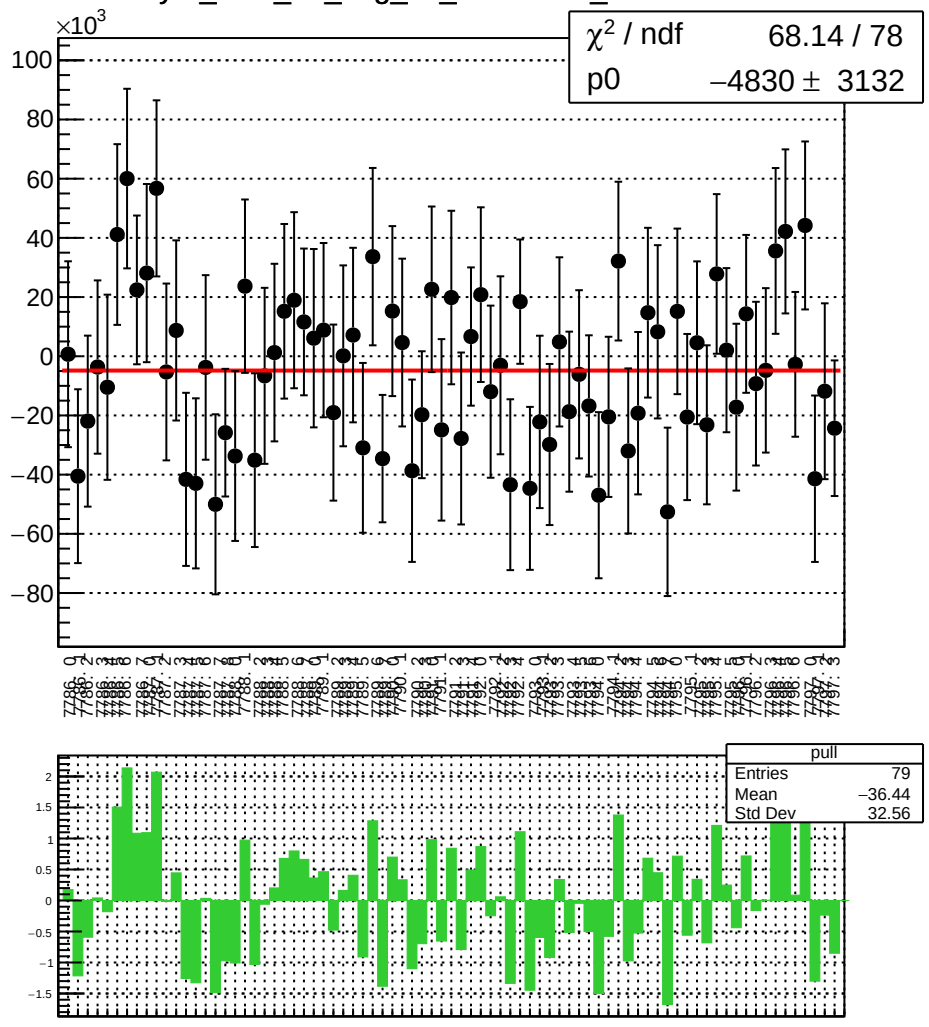

pull1D
Entries 79
Mean 0.007696
Std Dev 0.9306

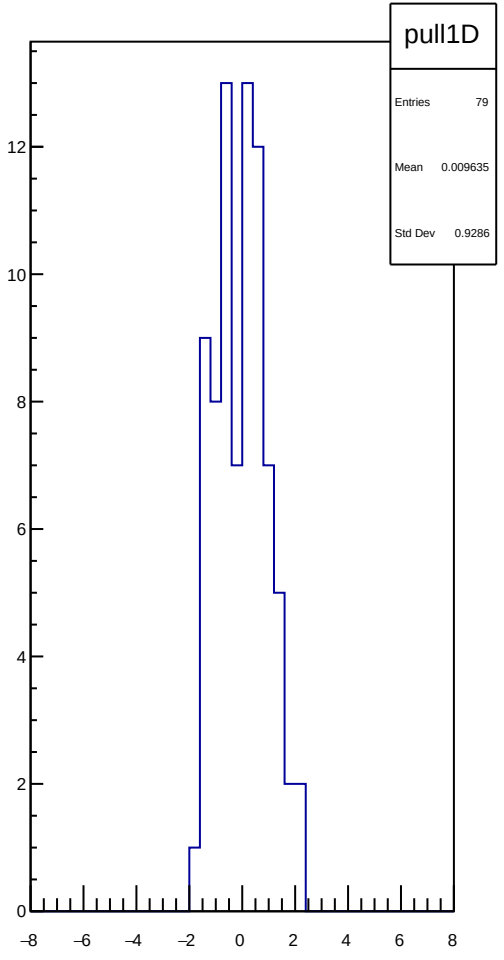

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2491 / 78
p0 2717 ± 2.196
3000
2900
2800
2700
2600
2500
2400

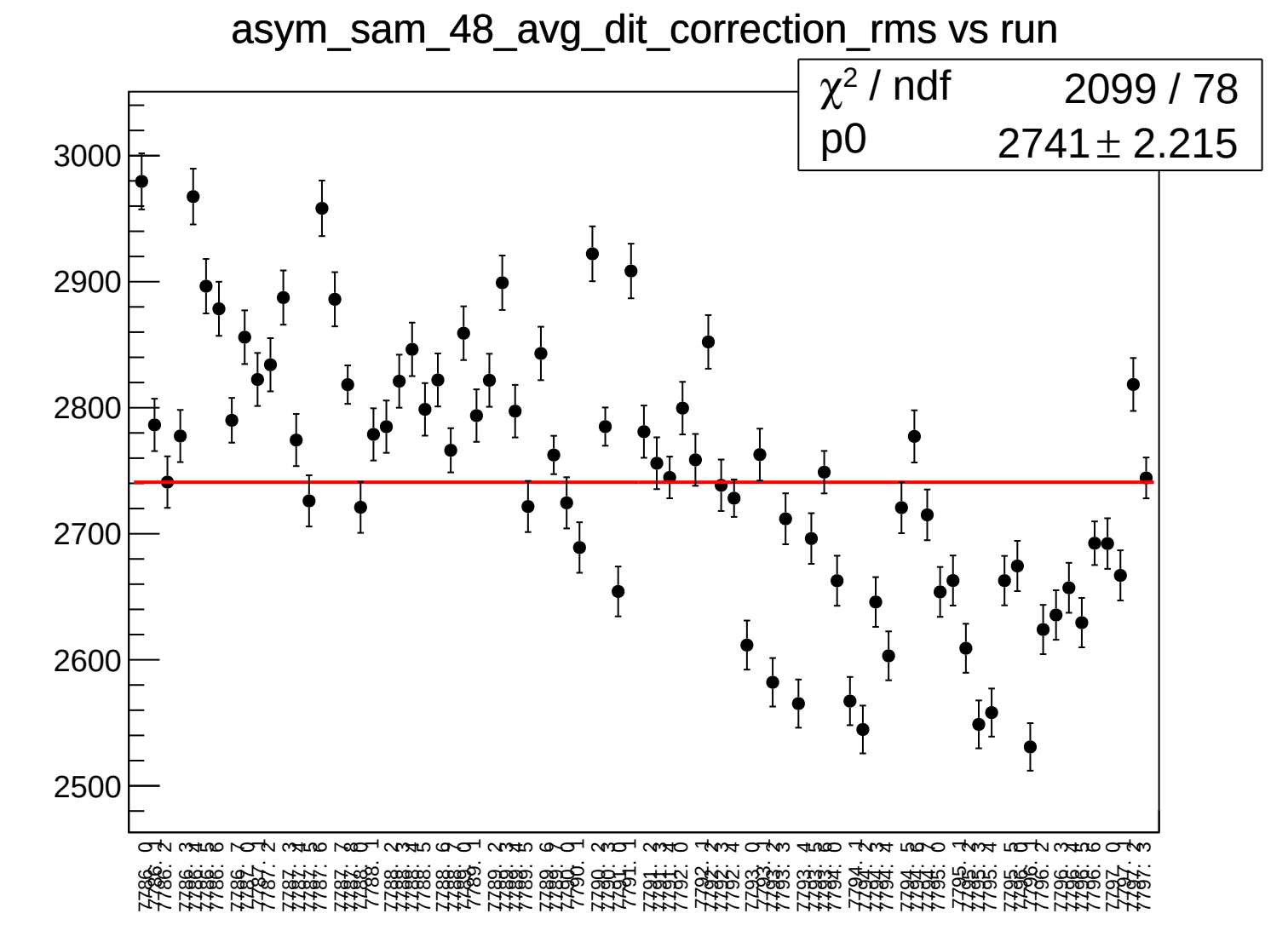

dit_asym_sam_48_avg_mean vs run
χ² / ndf 60.43 / 78
p0 −183.2 ± 262.1
pull
Entries 79
Mean 28.36
Std Dev 51.9

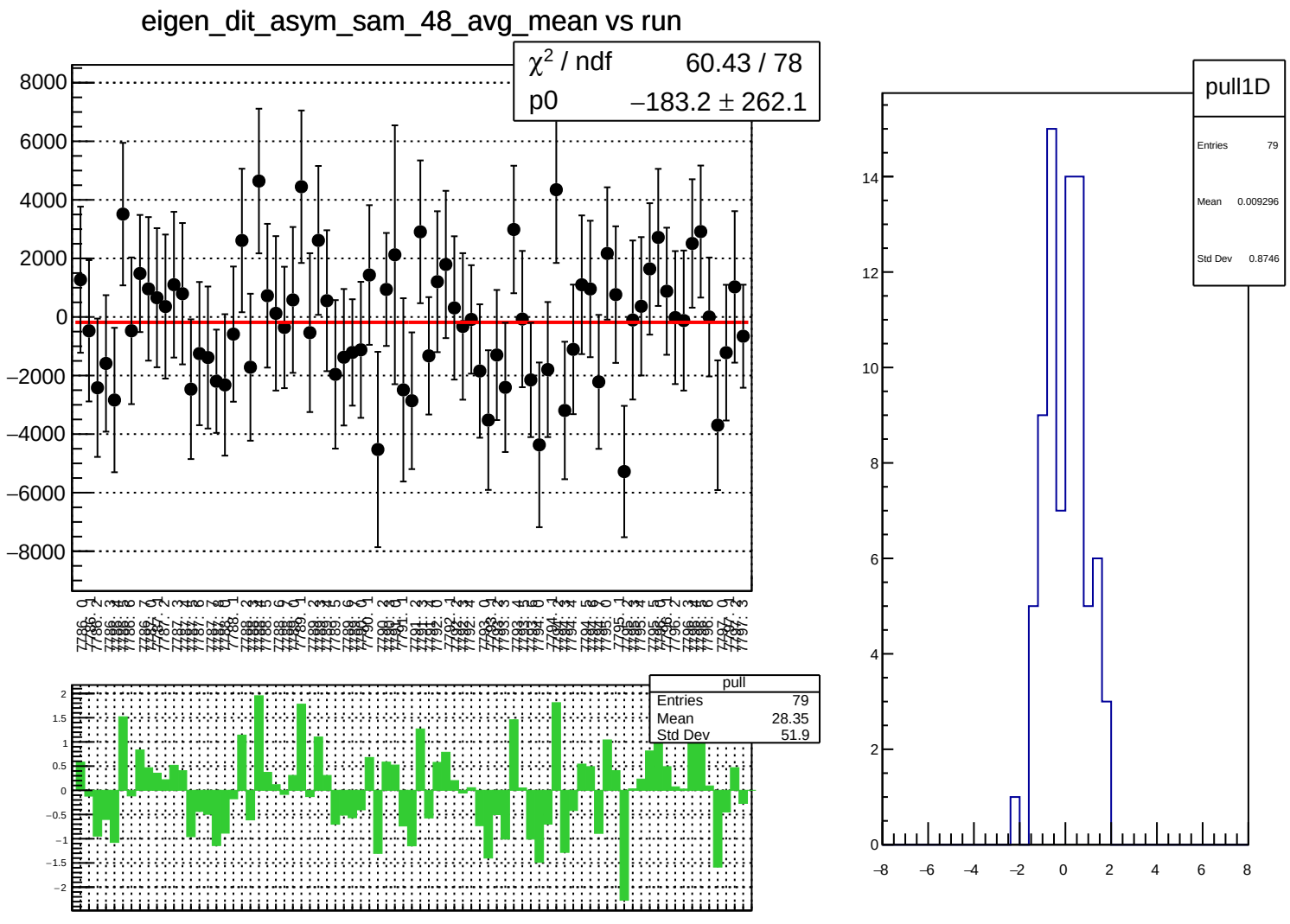

pull1D
Entries 79
Mean 0.009296
Std Dev 0.8746

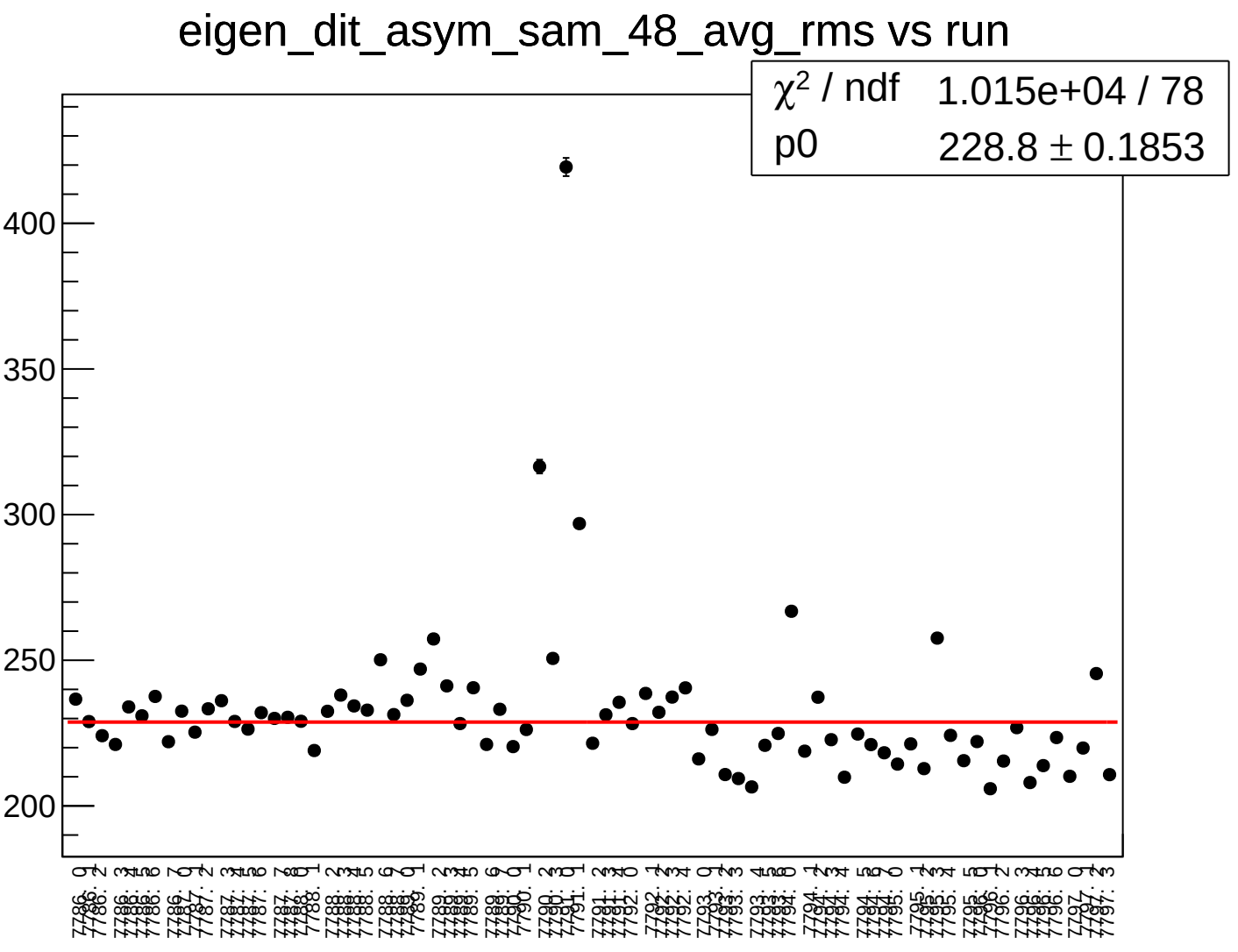

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.015e+04 / 78
p0 228.8 ± 0.1853
400
350
300
250
200

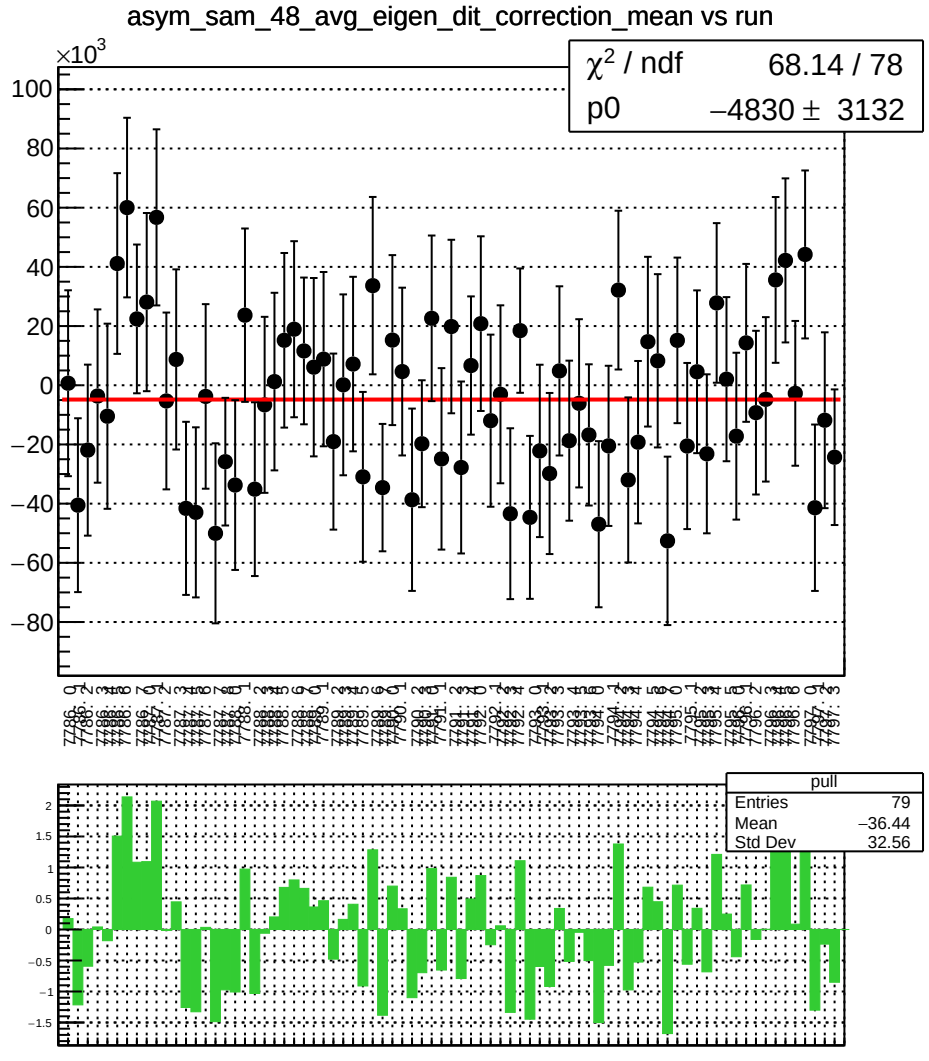

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.14 / 78
p0 −4830 ± 3132
pull
Entries 79
Mean −36.44
Std Dev 32.56

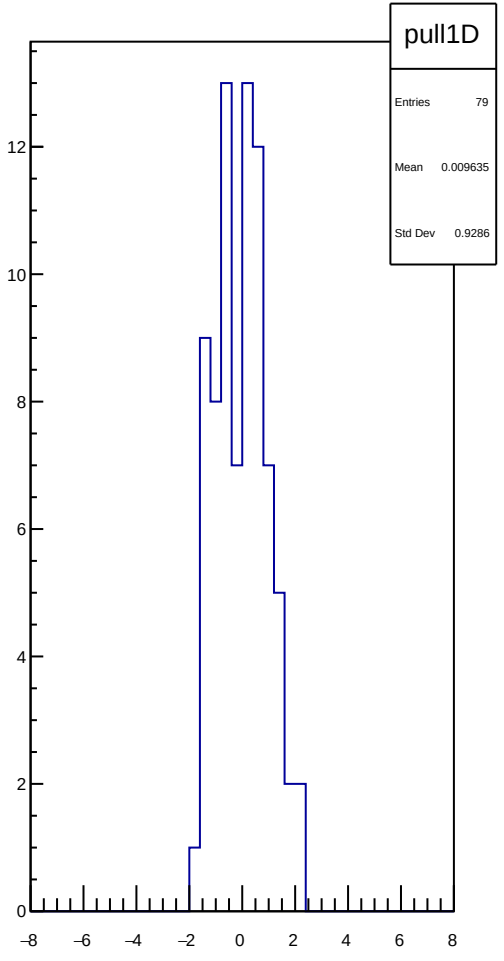

pull1D
Entries 79
Mean 0.009635
Std Dev 0.9286

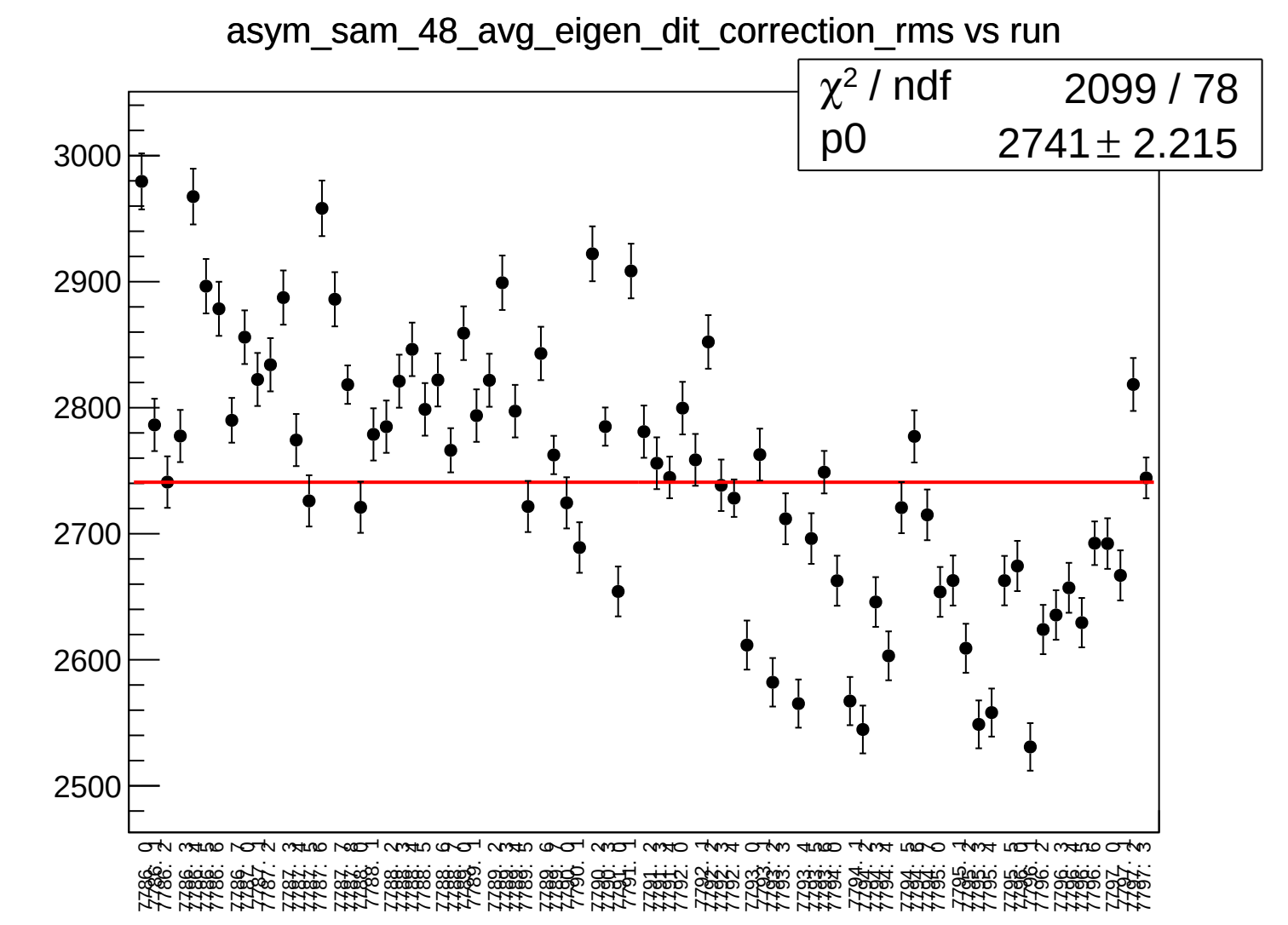

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2099 / 78
p0 2741 ± 2.215
3000
2900
2800
2700
2600
2500

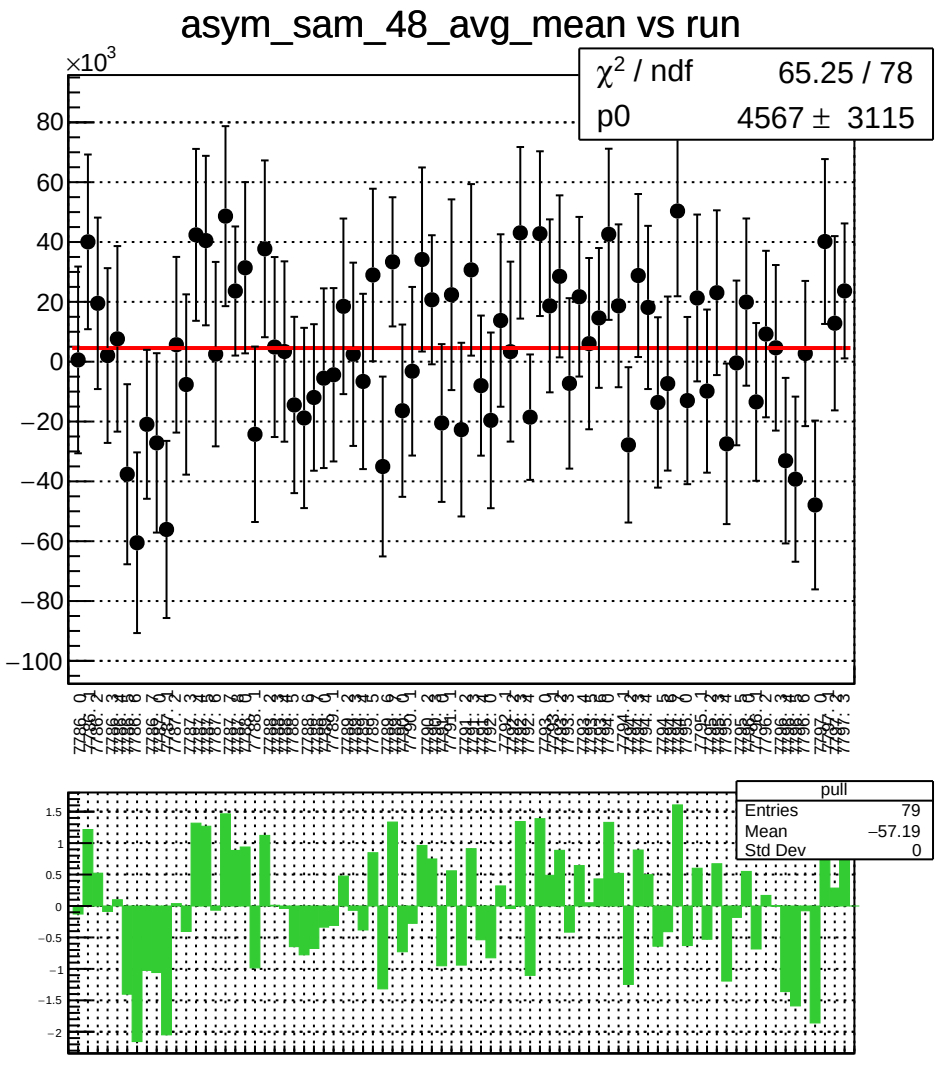

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 60.43 / 78
p0 −183.2 ± 262.1
pull
Entries 79
Mean 28.35
Std Dev 51.9
pull1D
Entries 79
Mean 0.009296
Std Dev 0.8746

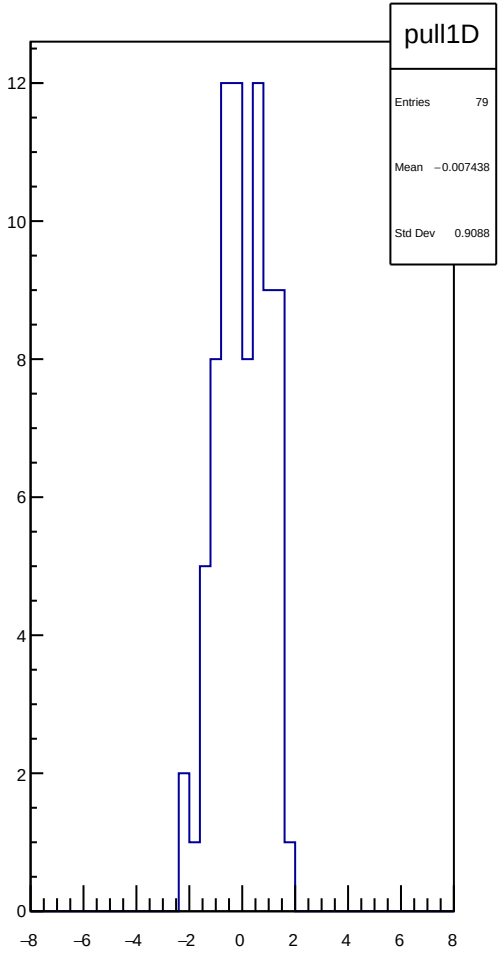

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.015e+04 / 78
p0 228.8 ± 0.1853
400
350
300
250
200

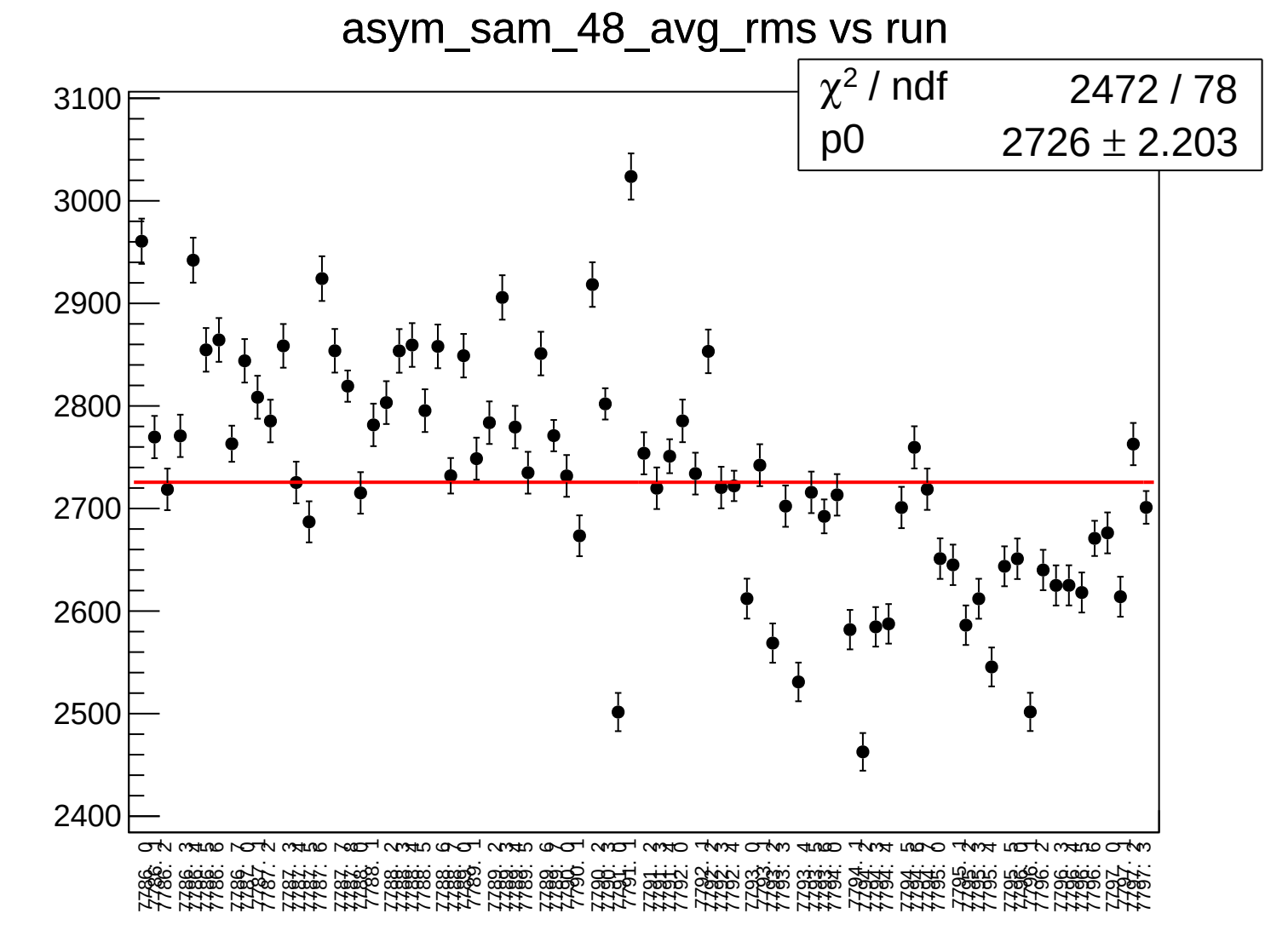

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.14 / 78
p0 −4830 ± 3132
pull
Entries 79
Mean −36.44
Std Dev 32.56

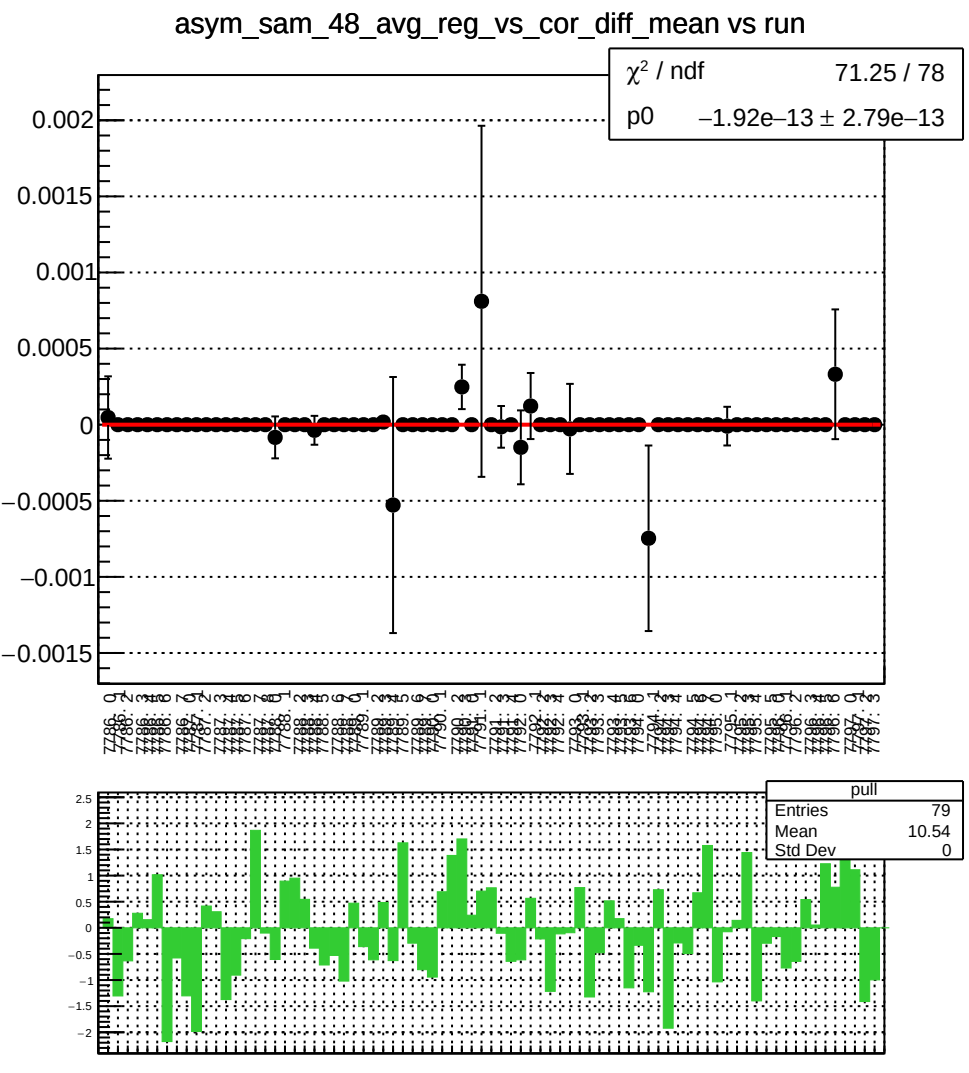

pull1D
Entries 79
Mean 0.009635
Std Dev 0.9286

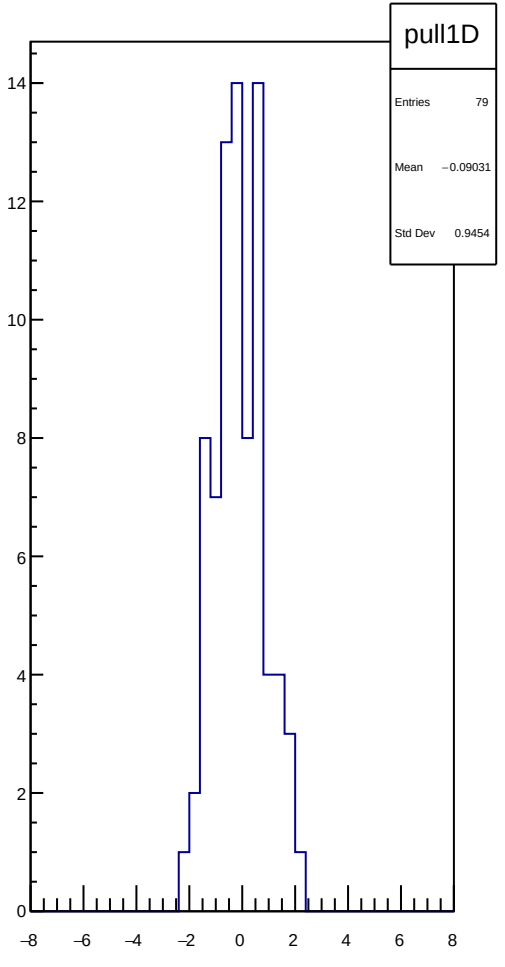

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2099 / 78
p0 2741 ± 2.215
3000
2900
2800
2700
2600
2500

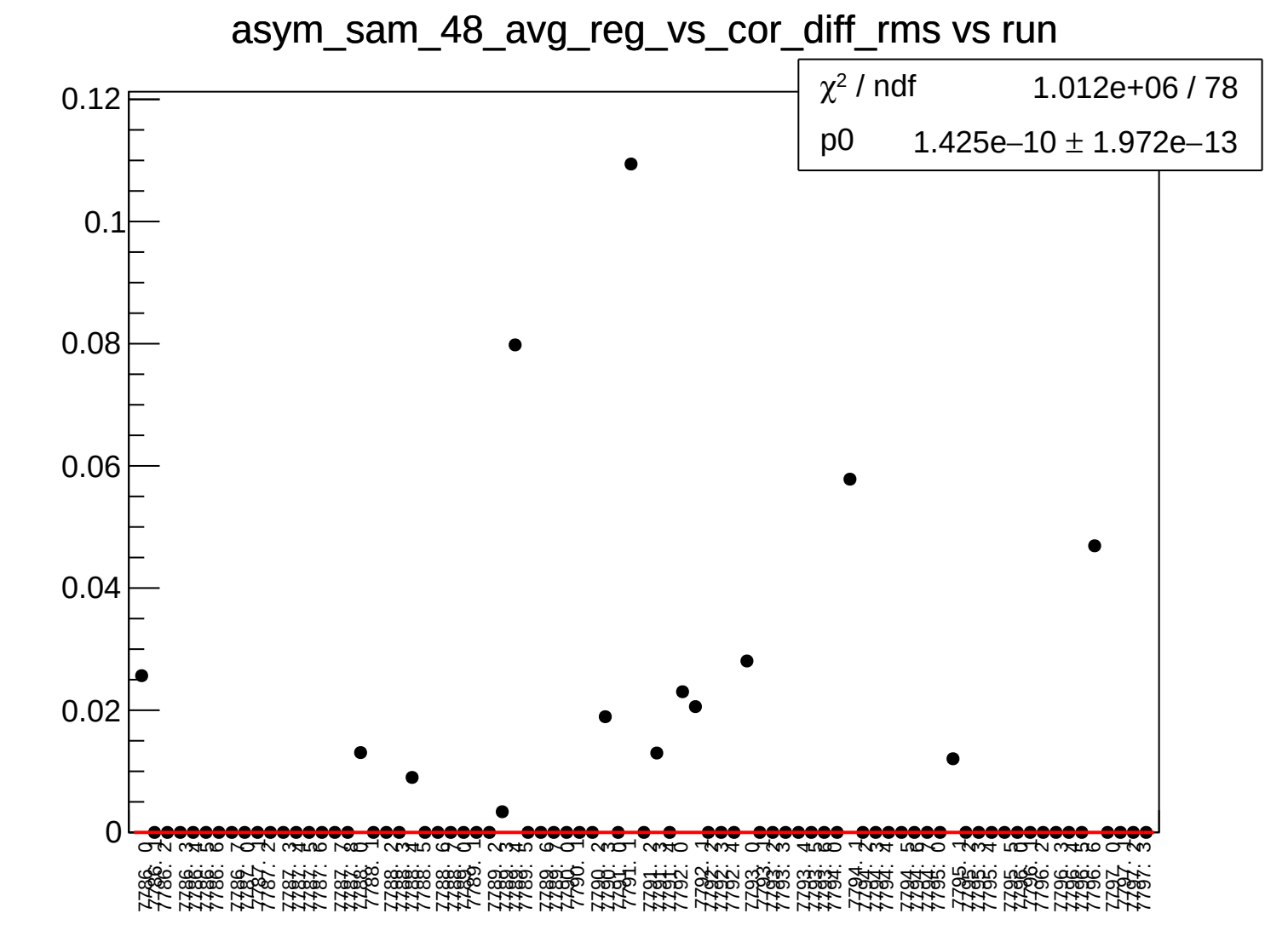

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 65.25 / 78
p0 4567 ± 3115
pull
Entries 79
Mean −57.19
Std Dev 0

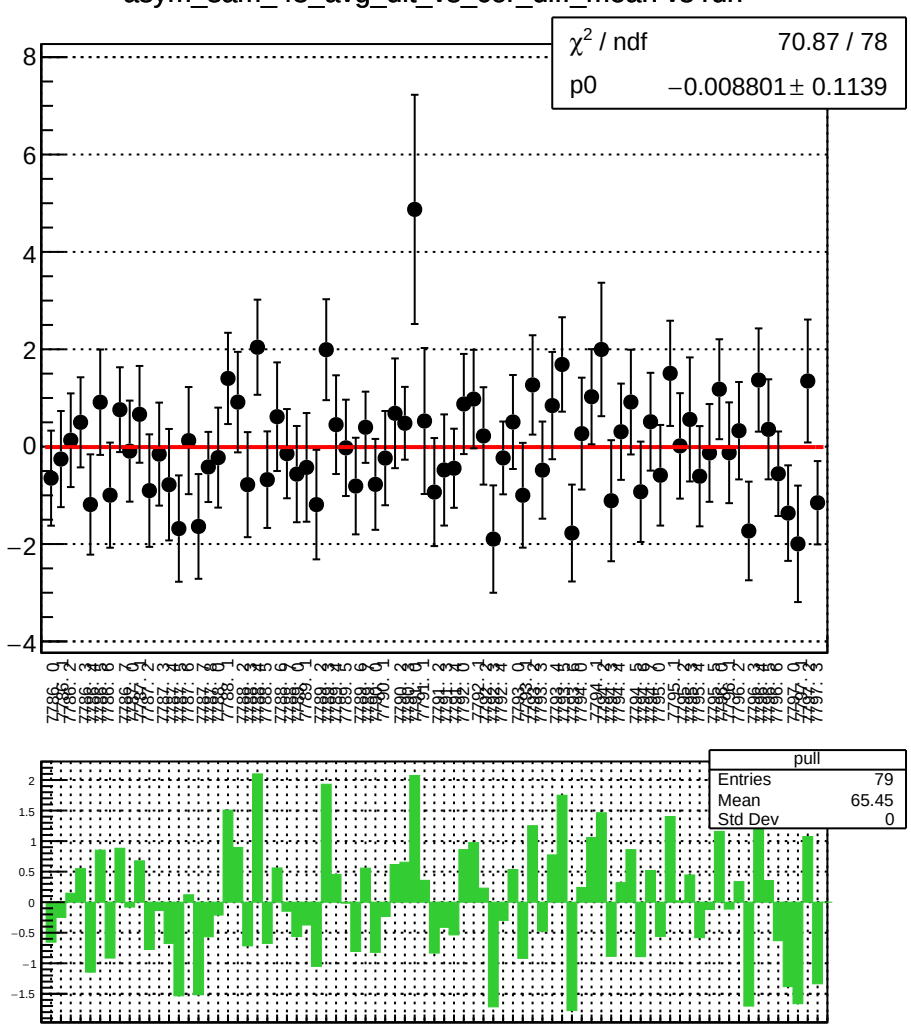

pull1D
Entries 79
Mean −0.007438
Std Dev 0.9088

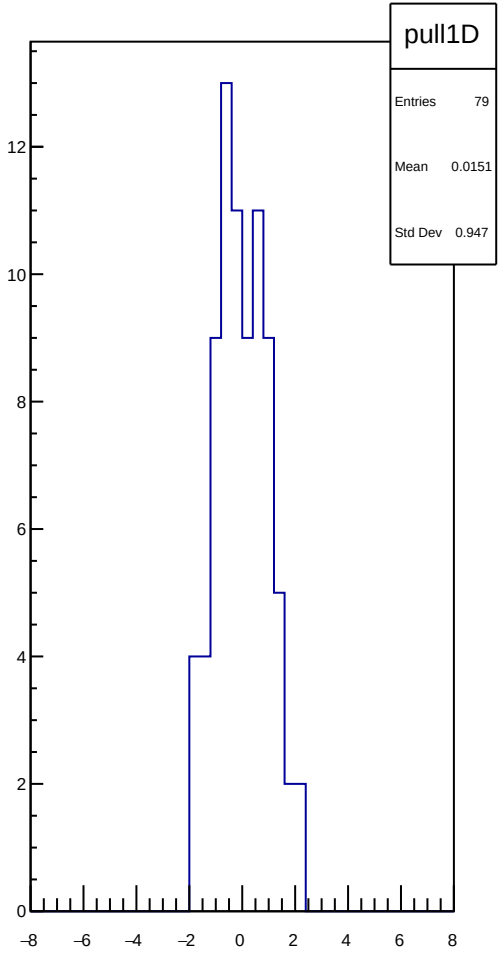

asym_sam_48_avg_rms vs run
χ² / ndf 2472 / 78
p0 2726 ± 2.203
3100
3000
2900
2800
2700
2600
2500
2400

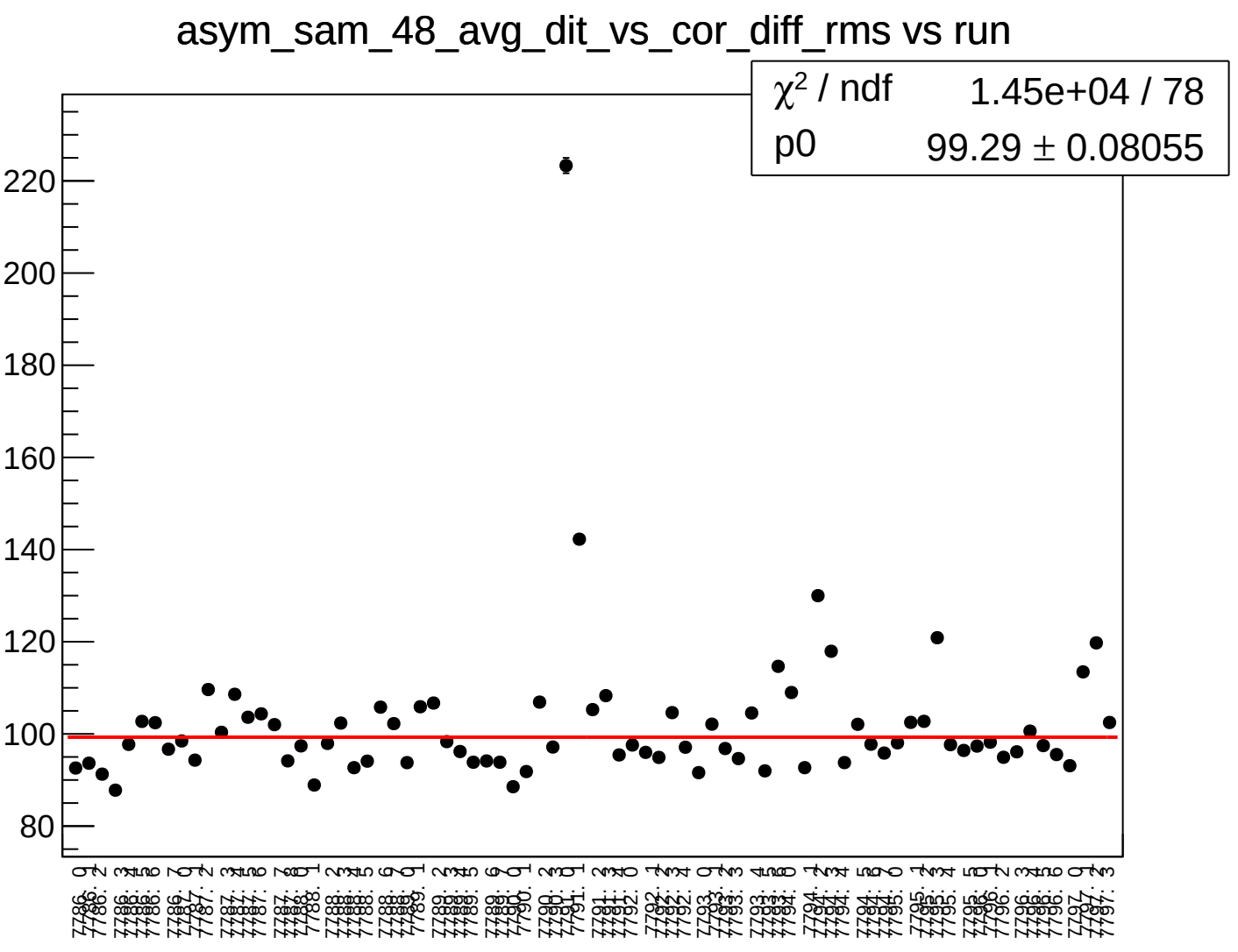

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.25 / 78
p0 −1.92e−13 ± 2.79e−13
pull
Entries 79
Mean 10.54
Std Dev 0

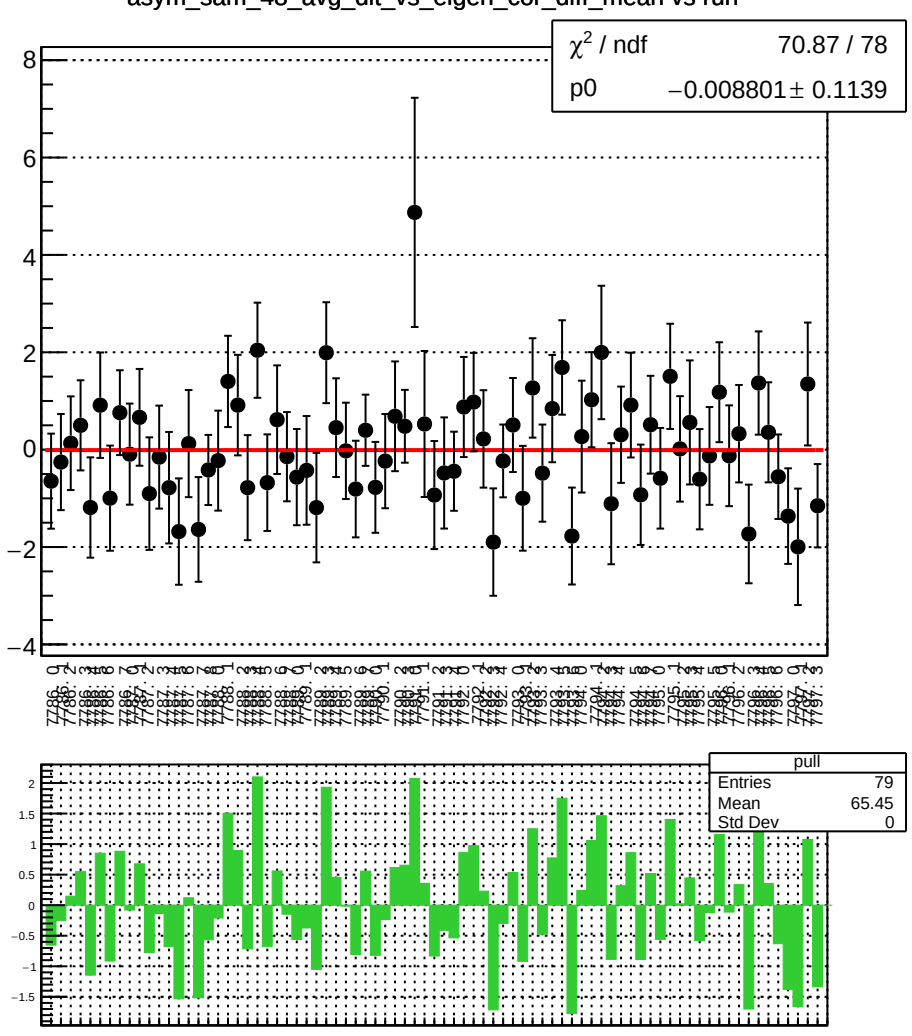

pull1D
Entries 79
Mean −0.09031
Std Dev 0.9454

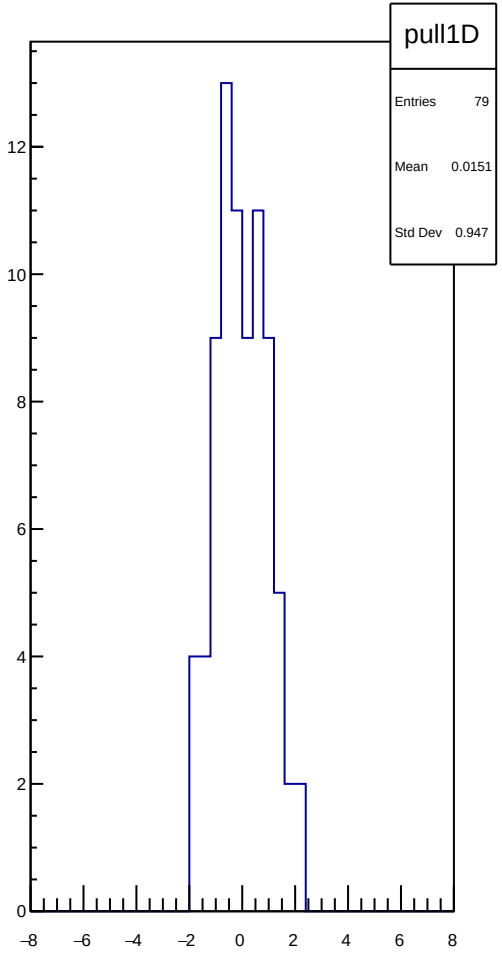

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.012e+06 / 78
p0 1.425e−10 ± 1.972e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

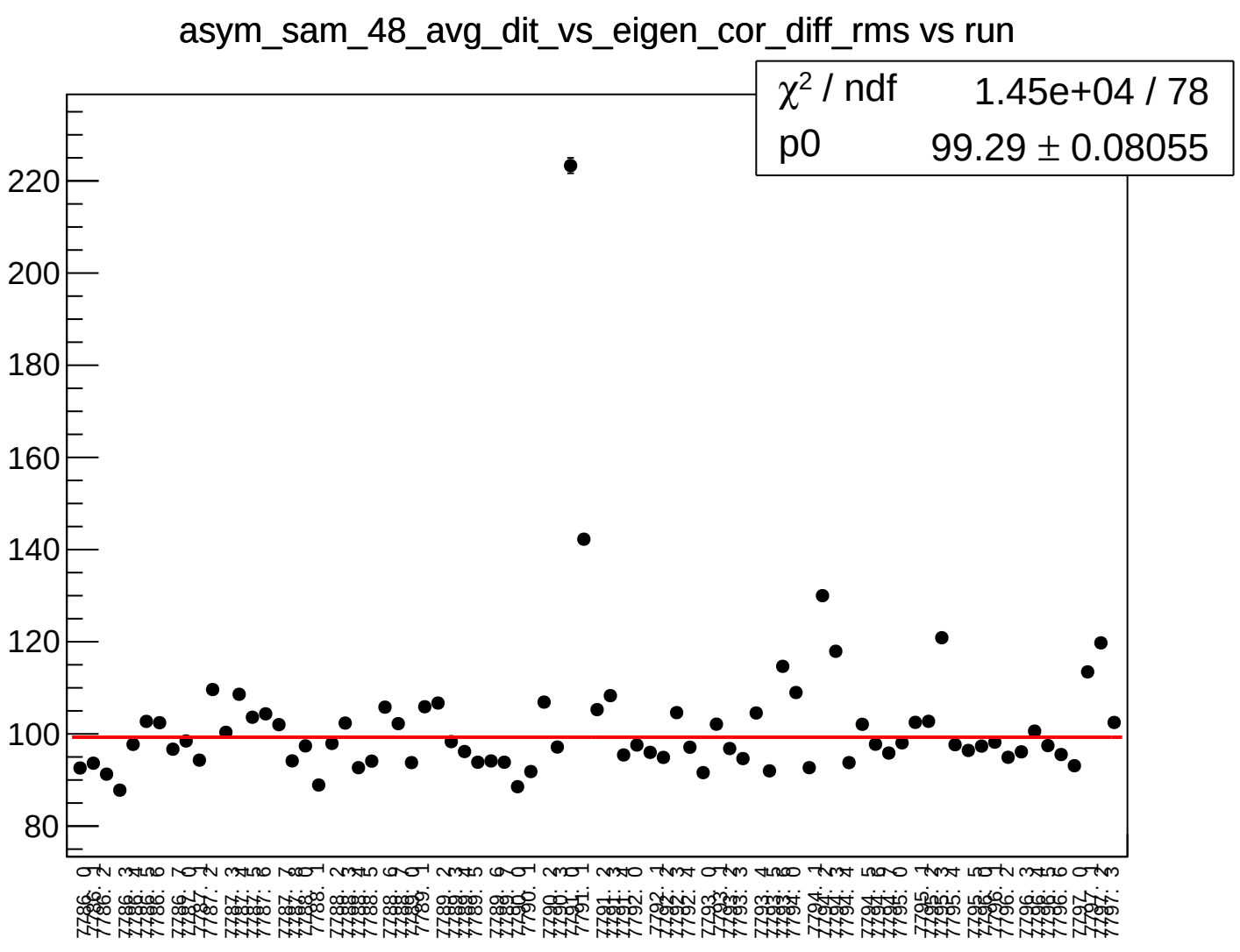

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.87 / 78
p0 −0.008801 ± 0.1139
pull
Entries 79
Mean 65.45
Std Dev 0

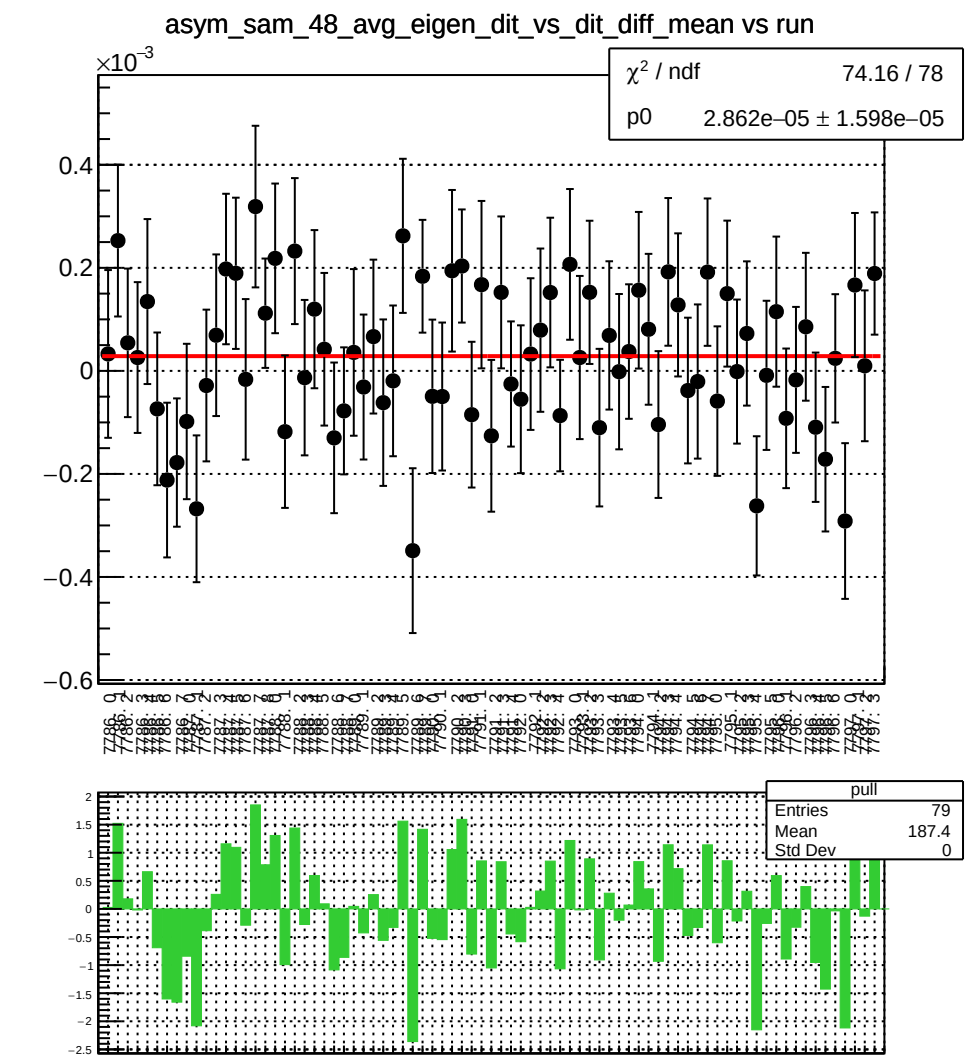

pull1D
Entries 79
Mean 0.0151
Std Dev 0.947

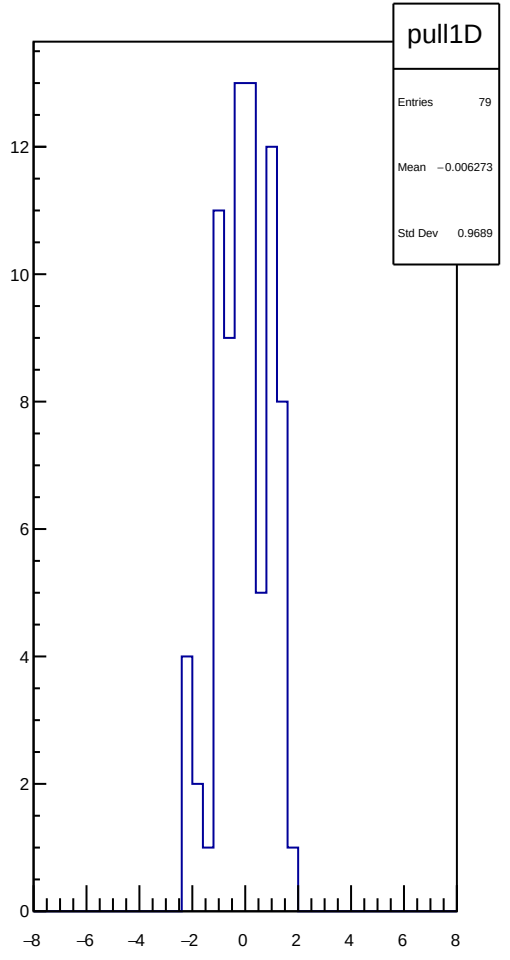

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.45e+04 / 78
p0 99.29 ± 0.08055
220
200
180
160
140
120
100
80

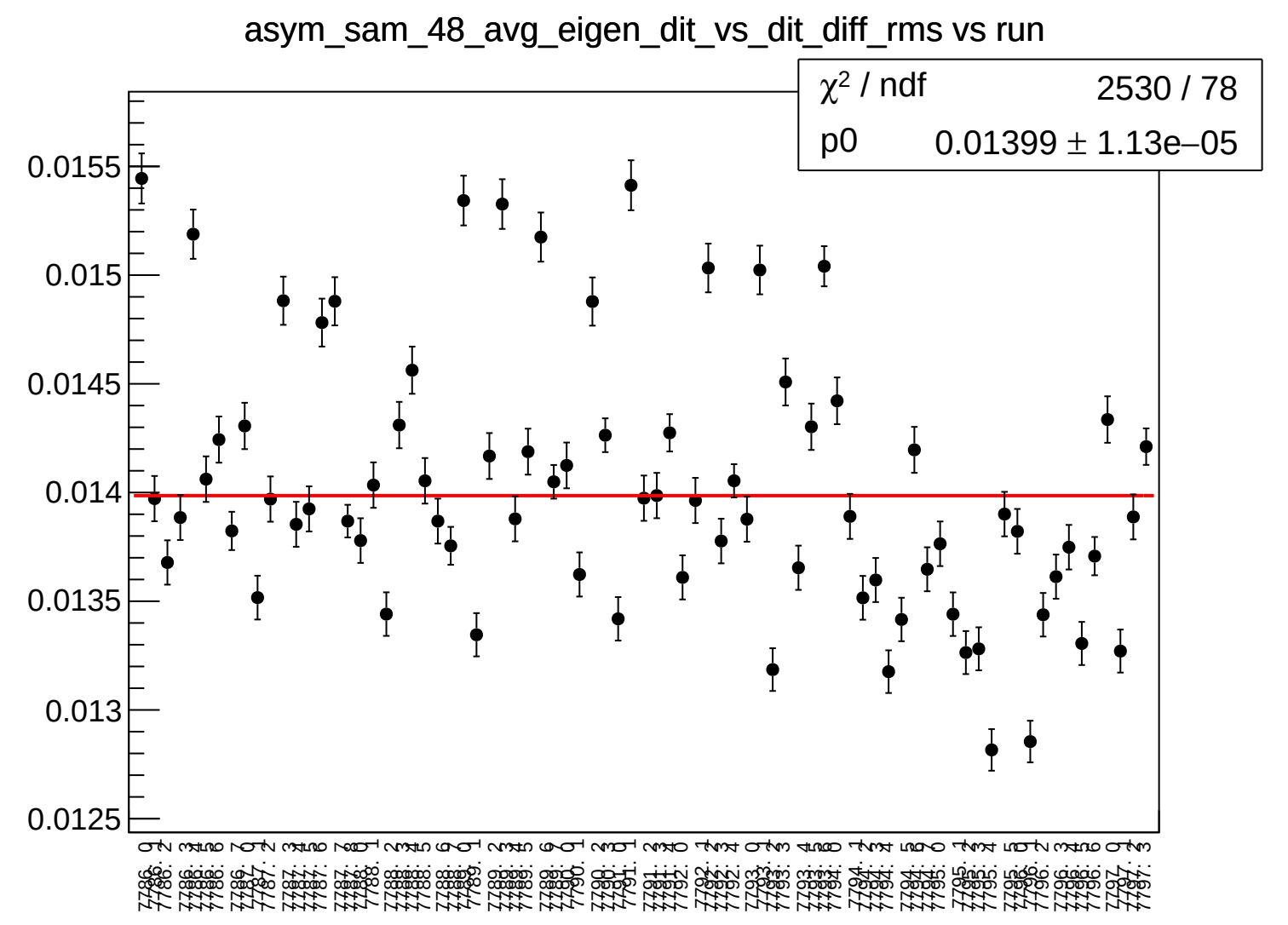

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.87 / 78
p0 −0.008801 ± 0.1139
pull
Entries 79
Mean 65.45
Std Dev 0

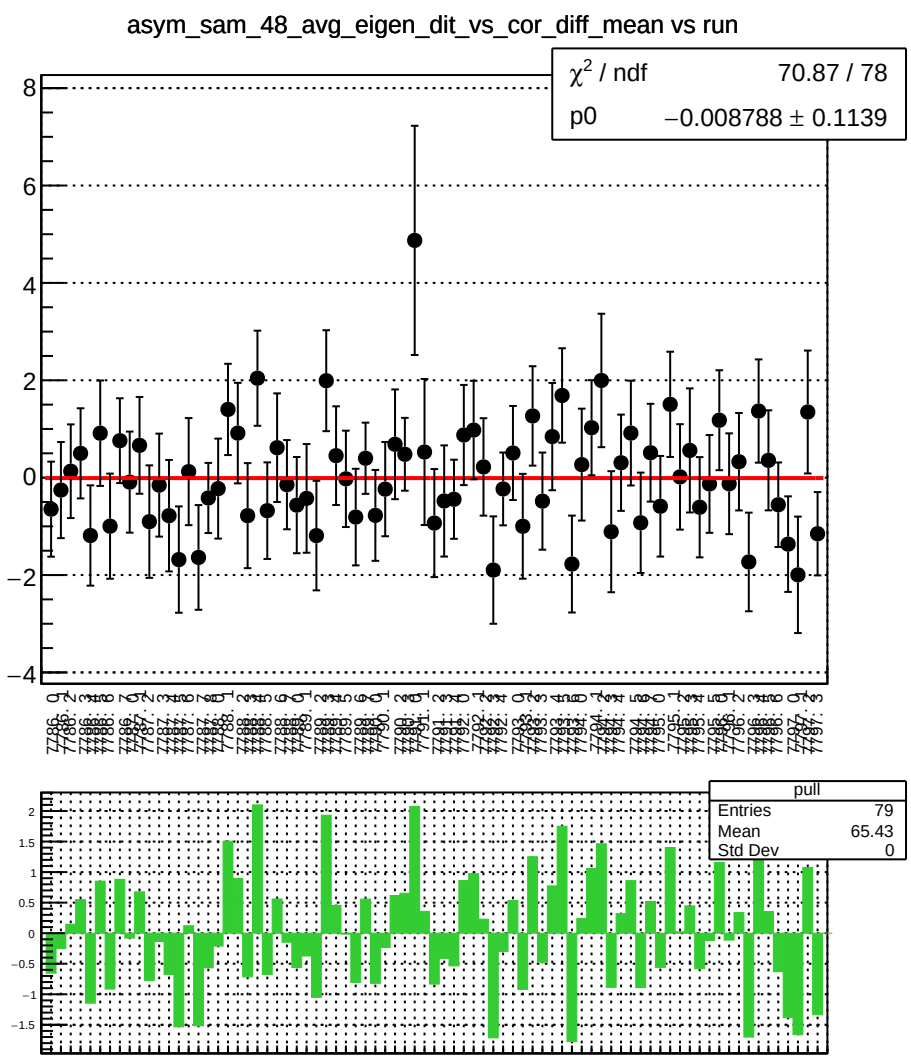

pull1D
Entries 79
Mean 0.0151
Std Dev 0.947

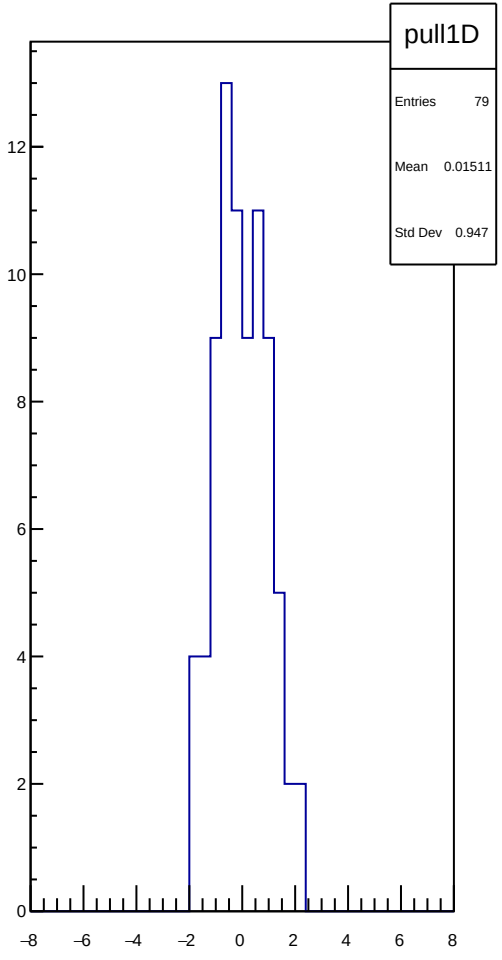

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.45e+04 / 78
p0 99.29 ± 0.08055
220
200
180
160
140
120
100
80

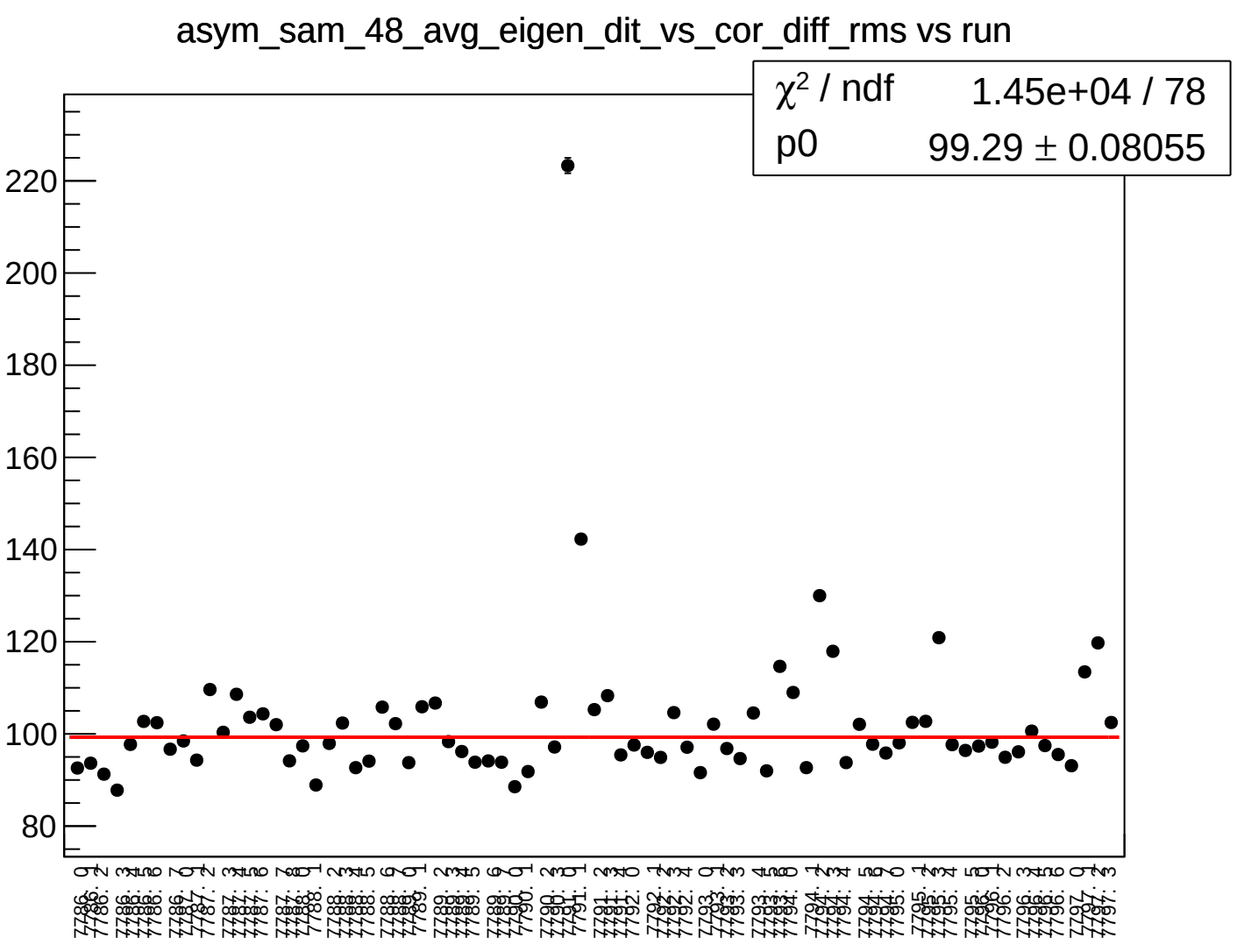

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.16 / 78
p0 2.862e−05 ± 1.598e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 79
Mean 187.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

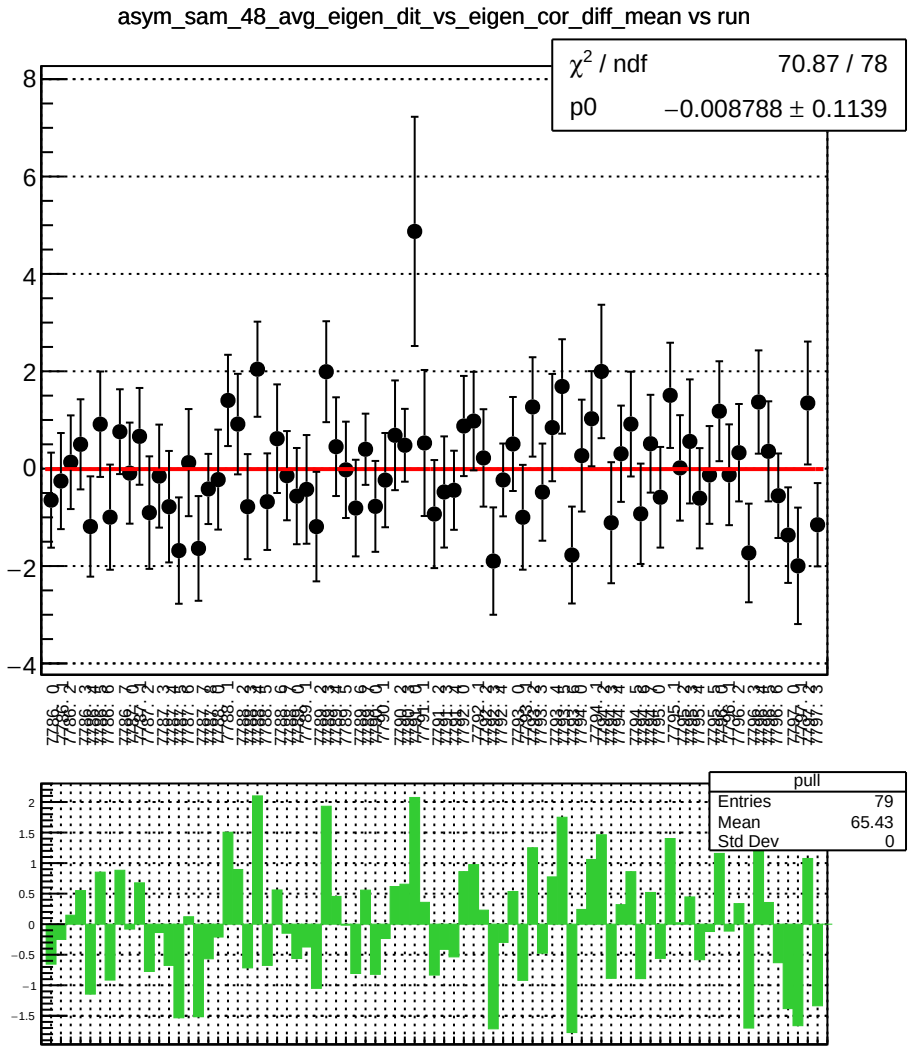

pull1D
Entries 79
Mean −0.006273
Std Dev 0.9689
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

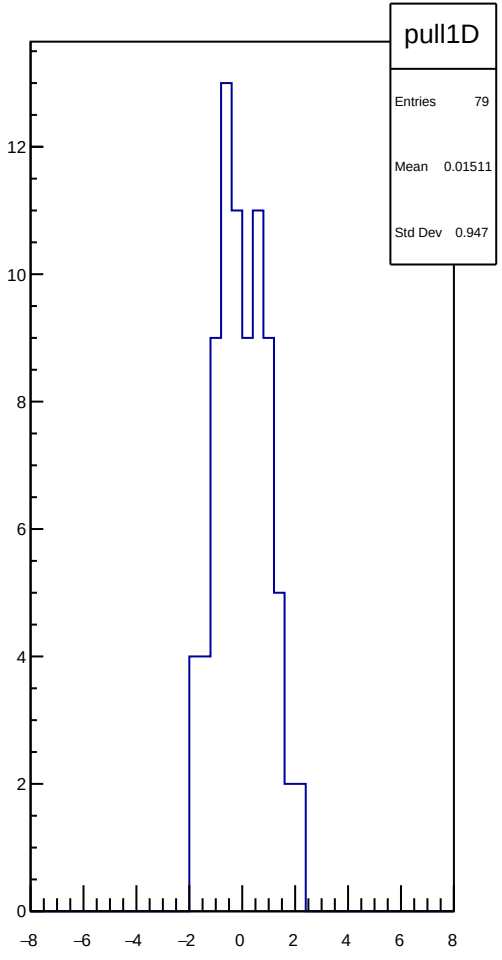

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2530 / 78
p0 0.01399 ± 1.13e−05
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125

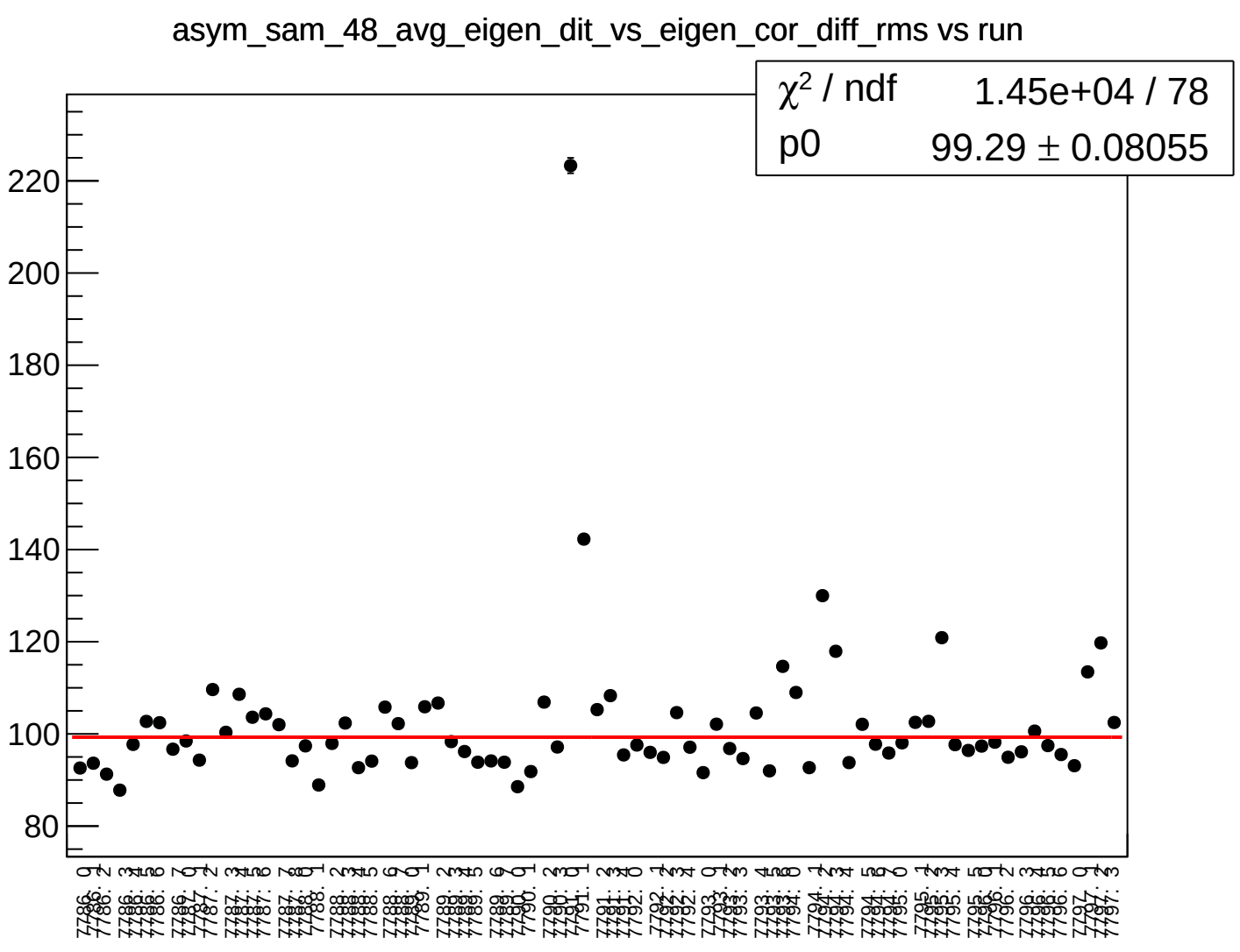

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.87 / 78
p0 −0.008788 ± 0.1139
pull
Entries 79
Mean 65.43
Std Dev 0

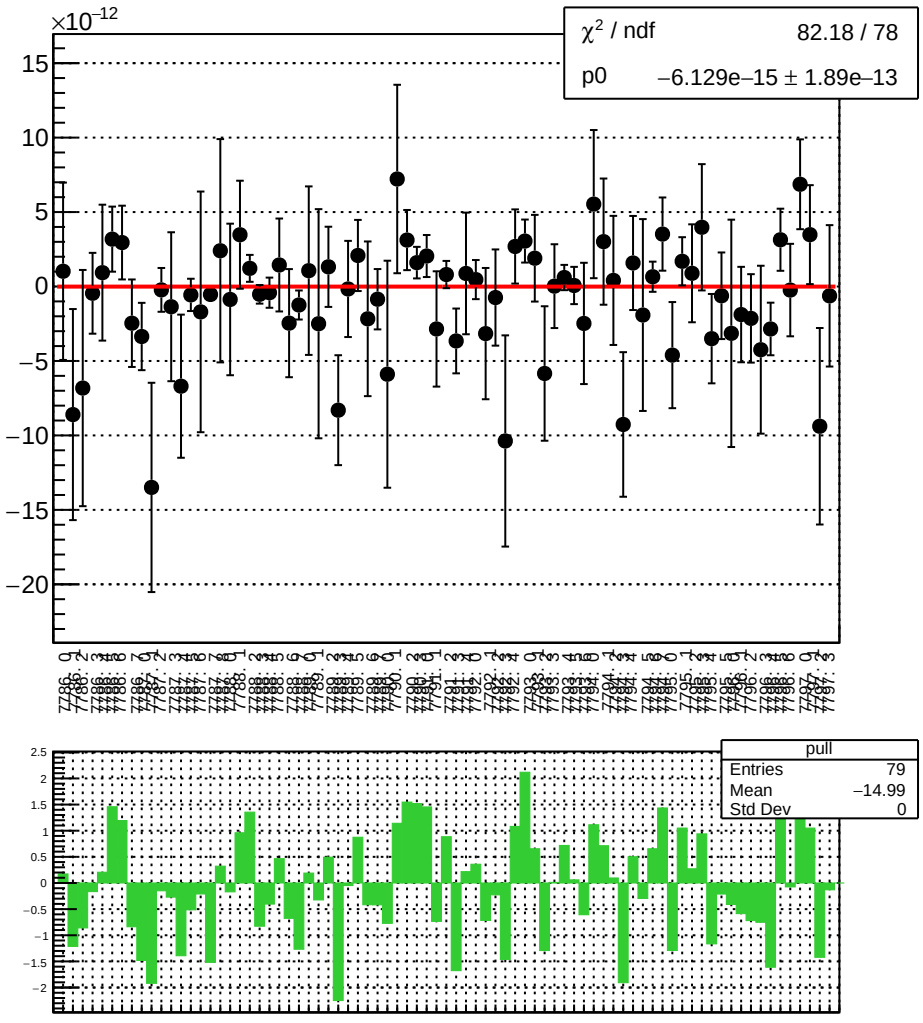

pull1D
Entries 79
Mean 0.01511
Std Dev 0.947

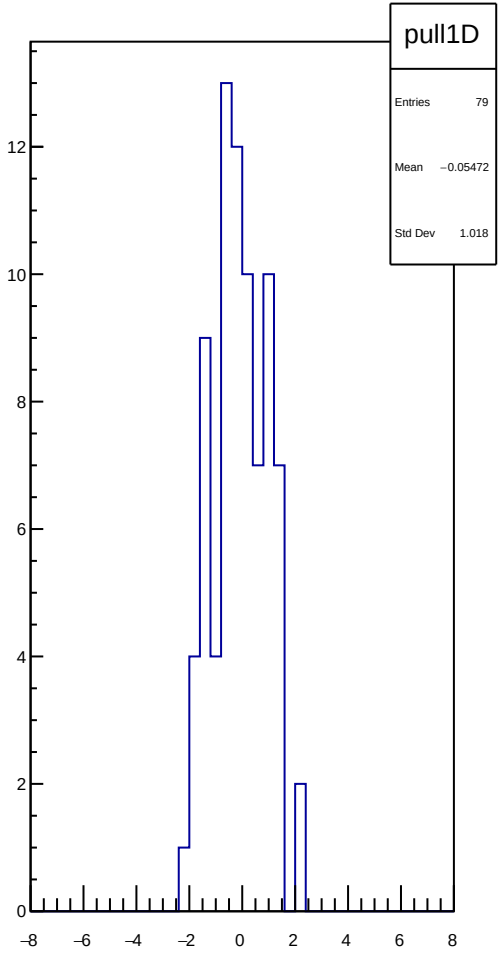

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.45e+04 / 78
p0 99.29 ± 0.08055
220
200
180
160
140
120
100
80

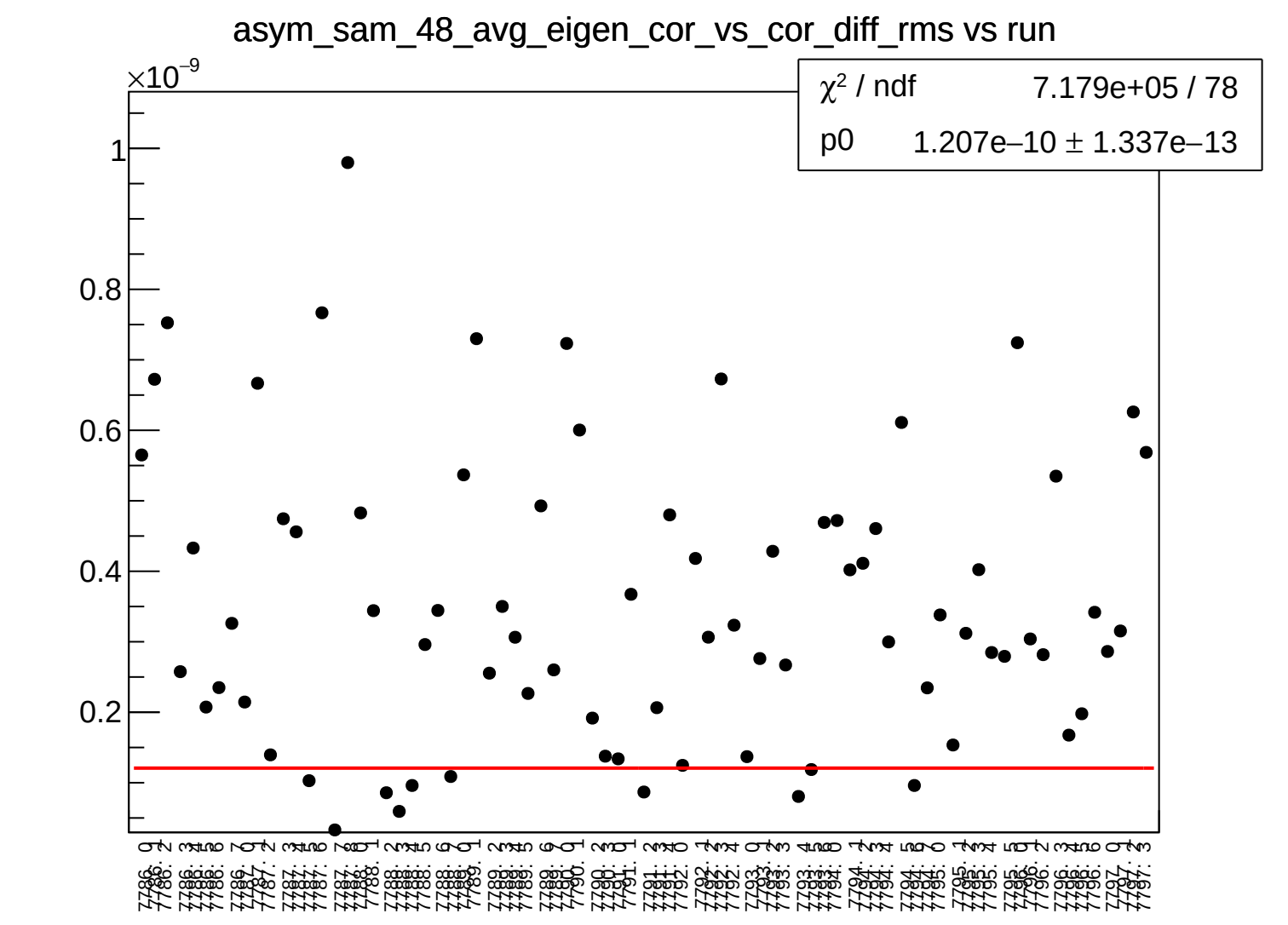

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.87 / 78
p0 −0.008788 ± 0.1139
pull
Entries 79
Mean 65.43
Std Dev 0

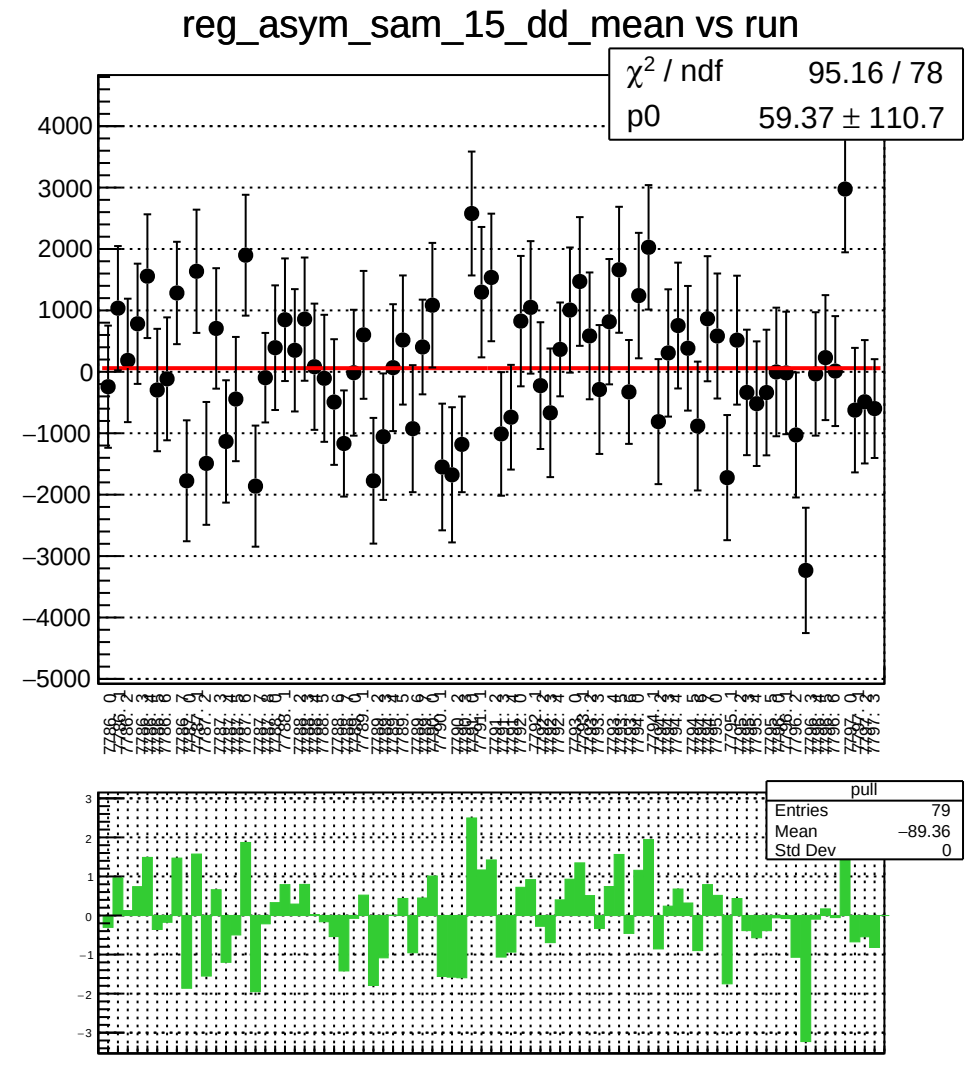

pull1D
Entries 79
Mean 0.01511
Std Dev 0.947

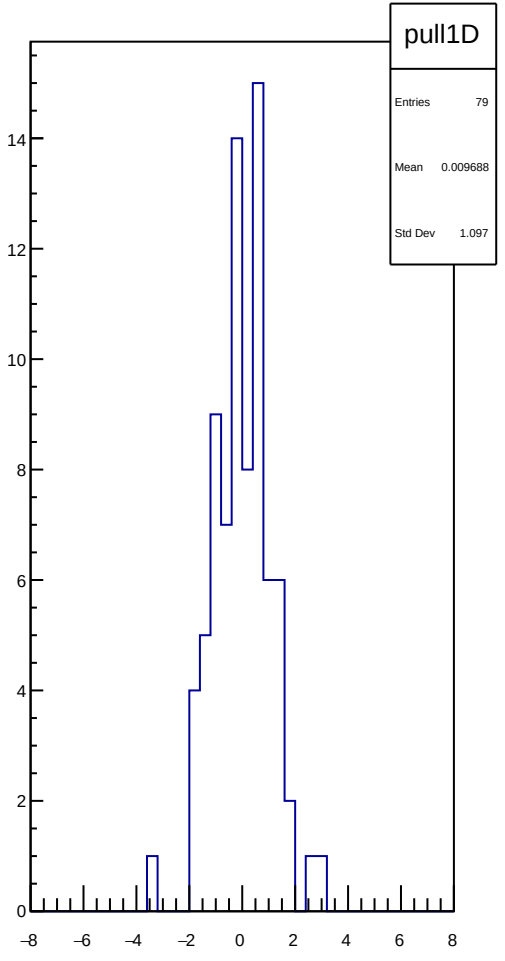

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.45e+04 / 78
p0 99.29 ± 0.08055
220
200
180
160
140
120
100
80

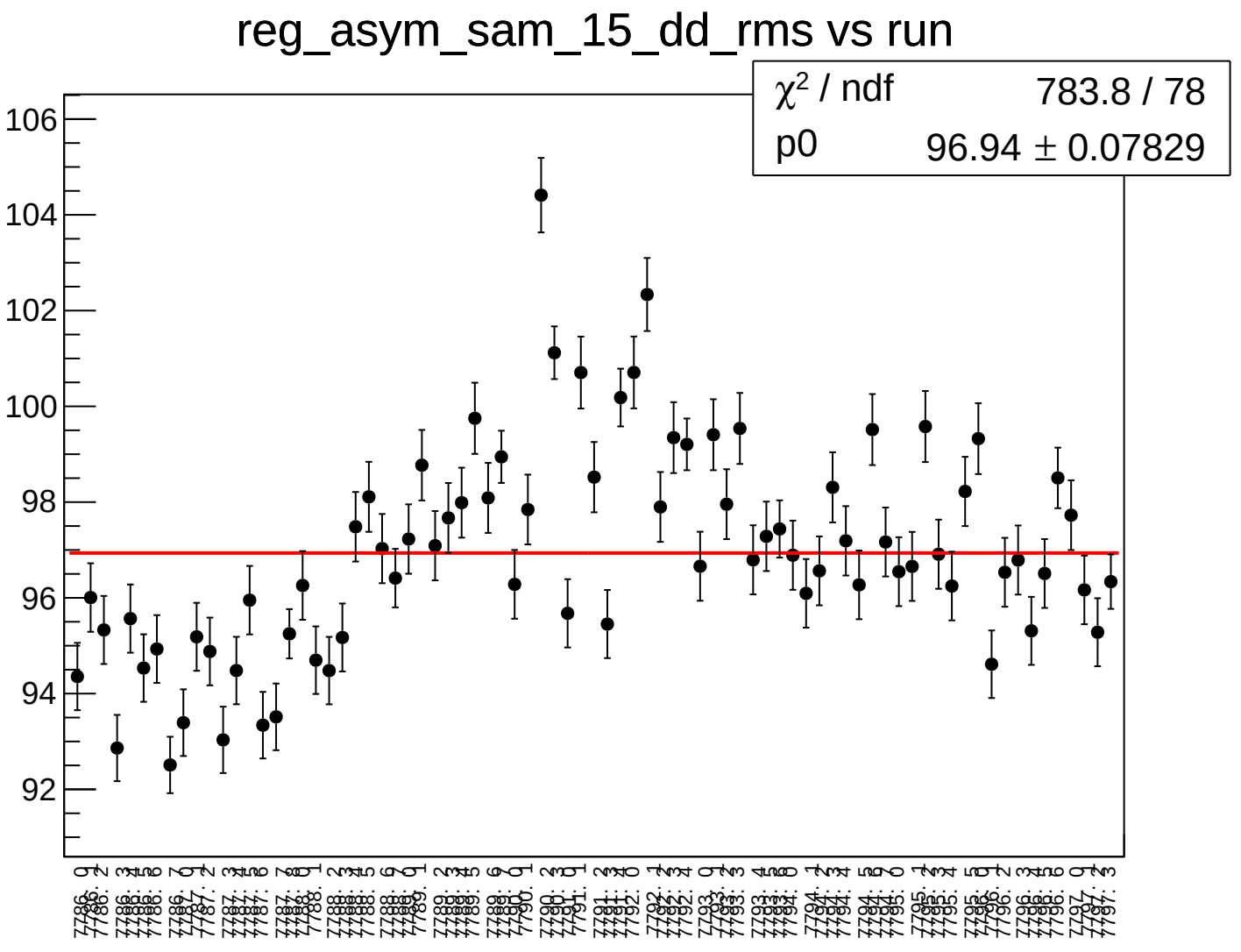

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.18 / 78
p0 −6.129e−15 ± 1.89e−13
pull
Entries 79
Mean −14.99
Std Dev 0

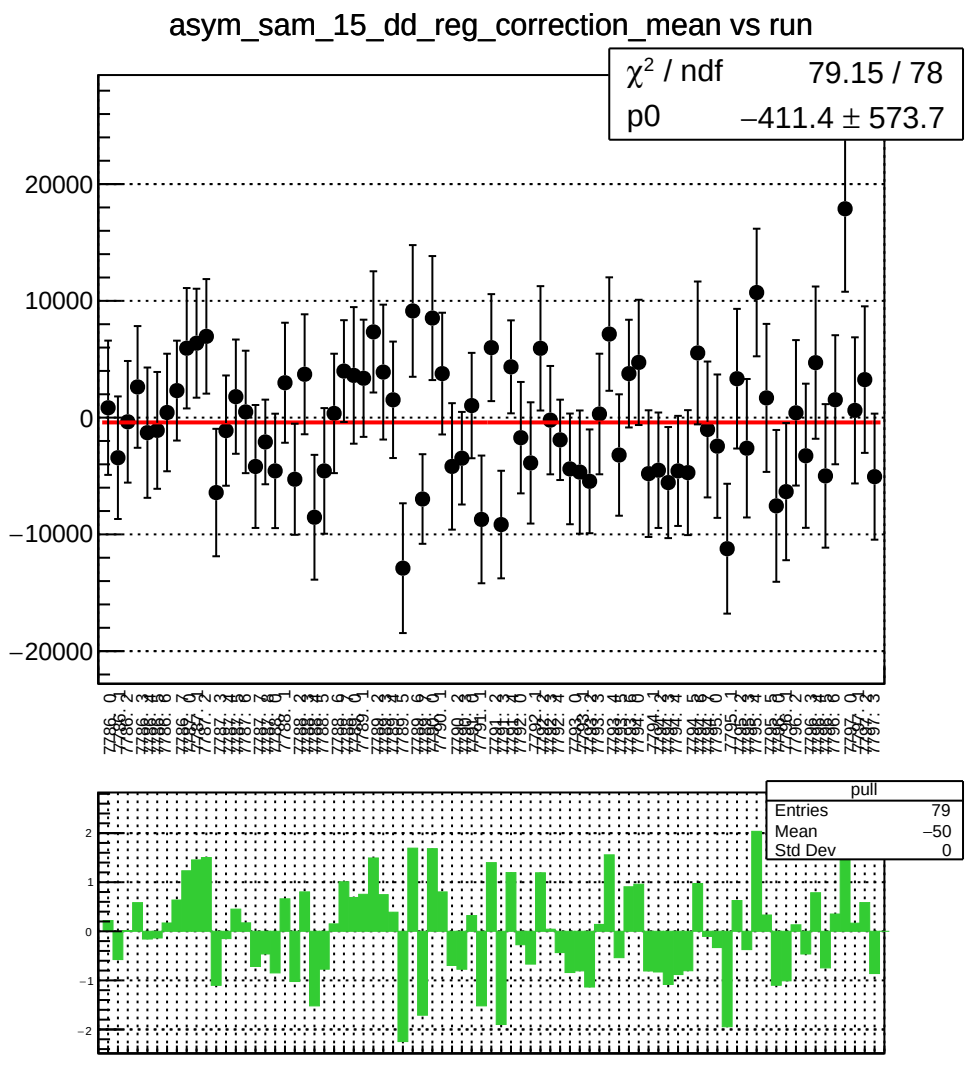

pull1D
Entries 79
Mean −0.05472
Std Dev 1.018

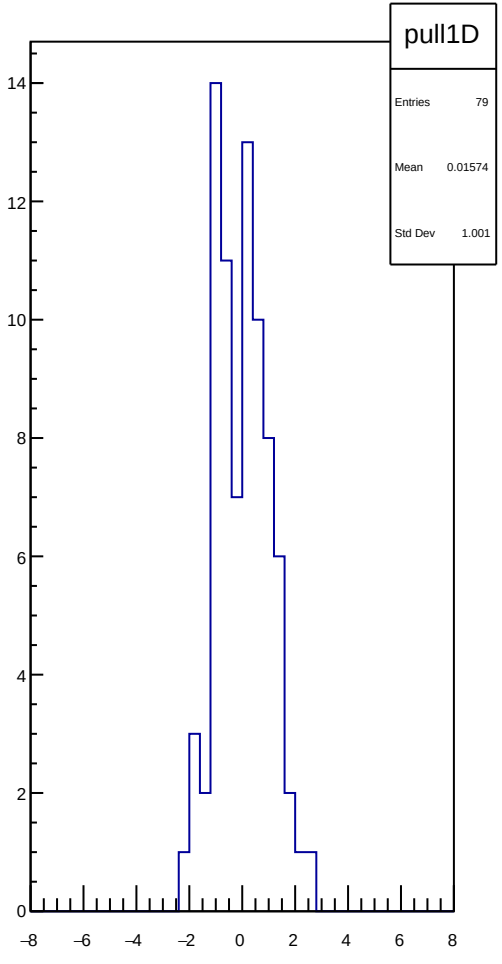

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.179e+05 / 78
p0 1.207e−10 ± 1.337e−13
1
0.8
0.6
0.4
0.2

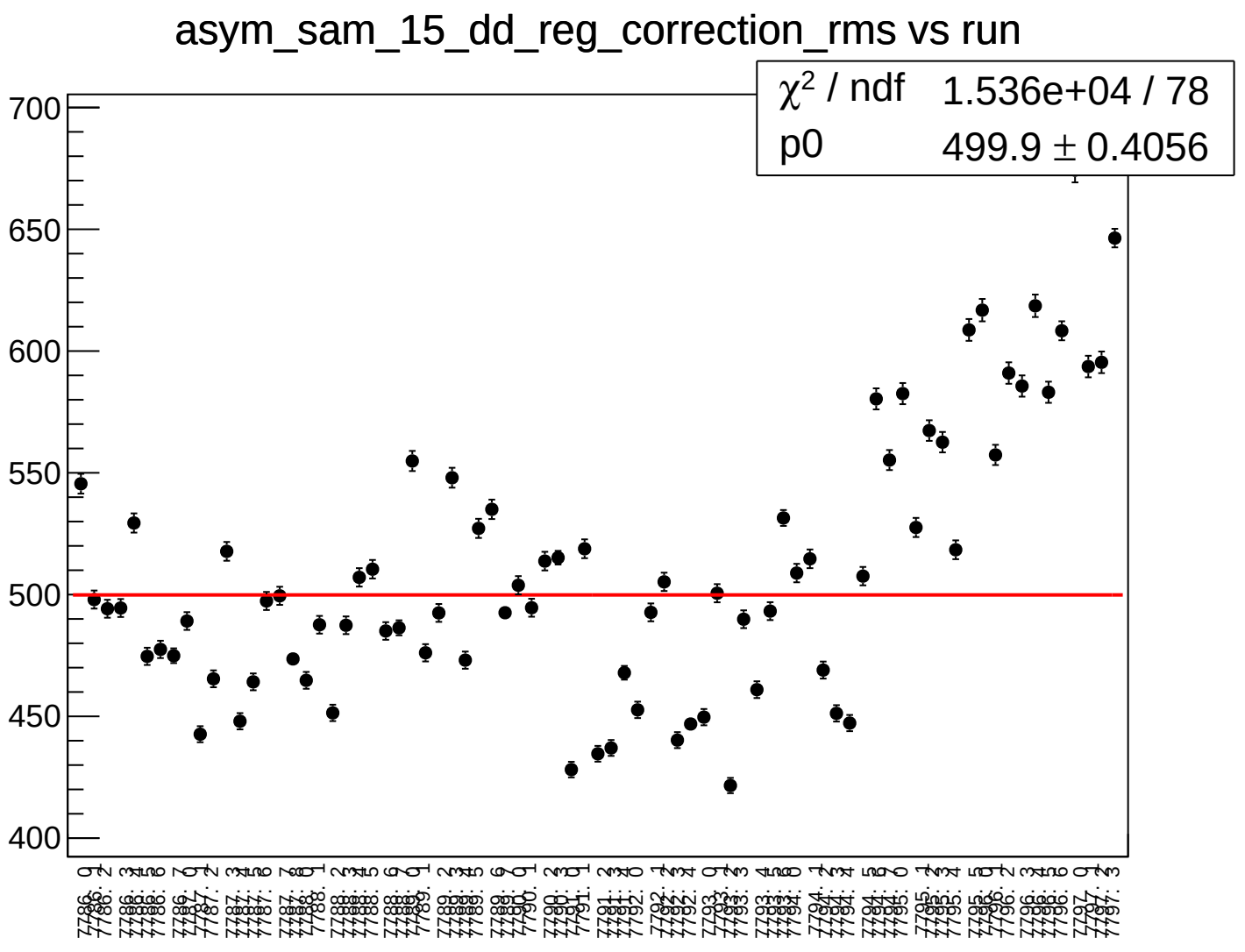

reg_asym_sam_15_dd_mean vs run
χ² / ndf 95.16 / 78
p0 59.37 ± 110.7
pull
Entries 79
Mean −89.36
Std Dev 0

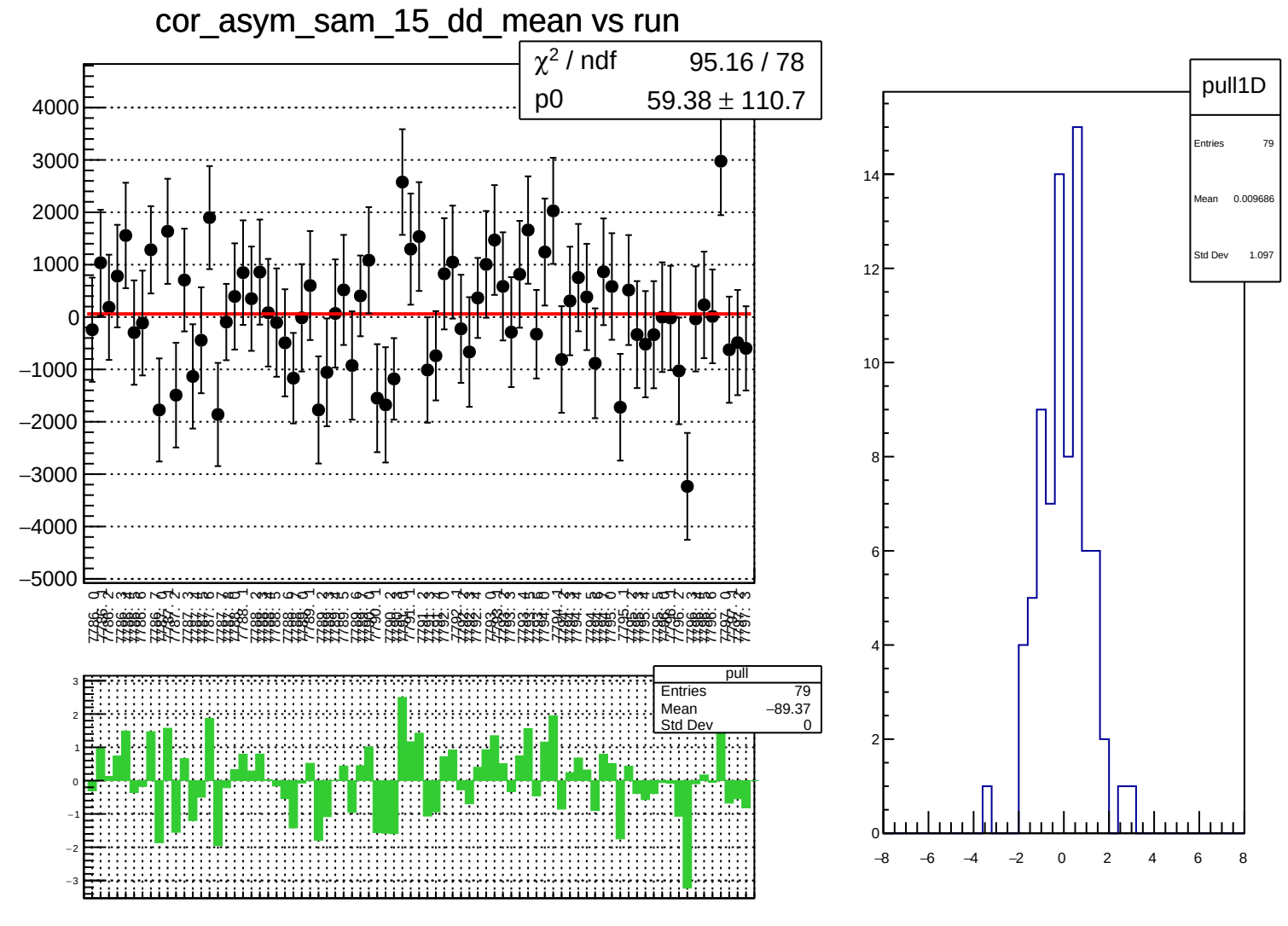

pull1D
Entries 79
Mean 0.009688
Std Dev 1.097

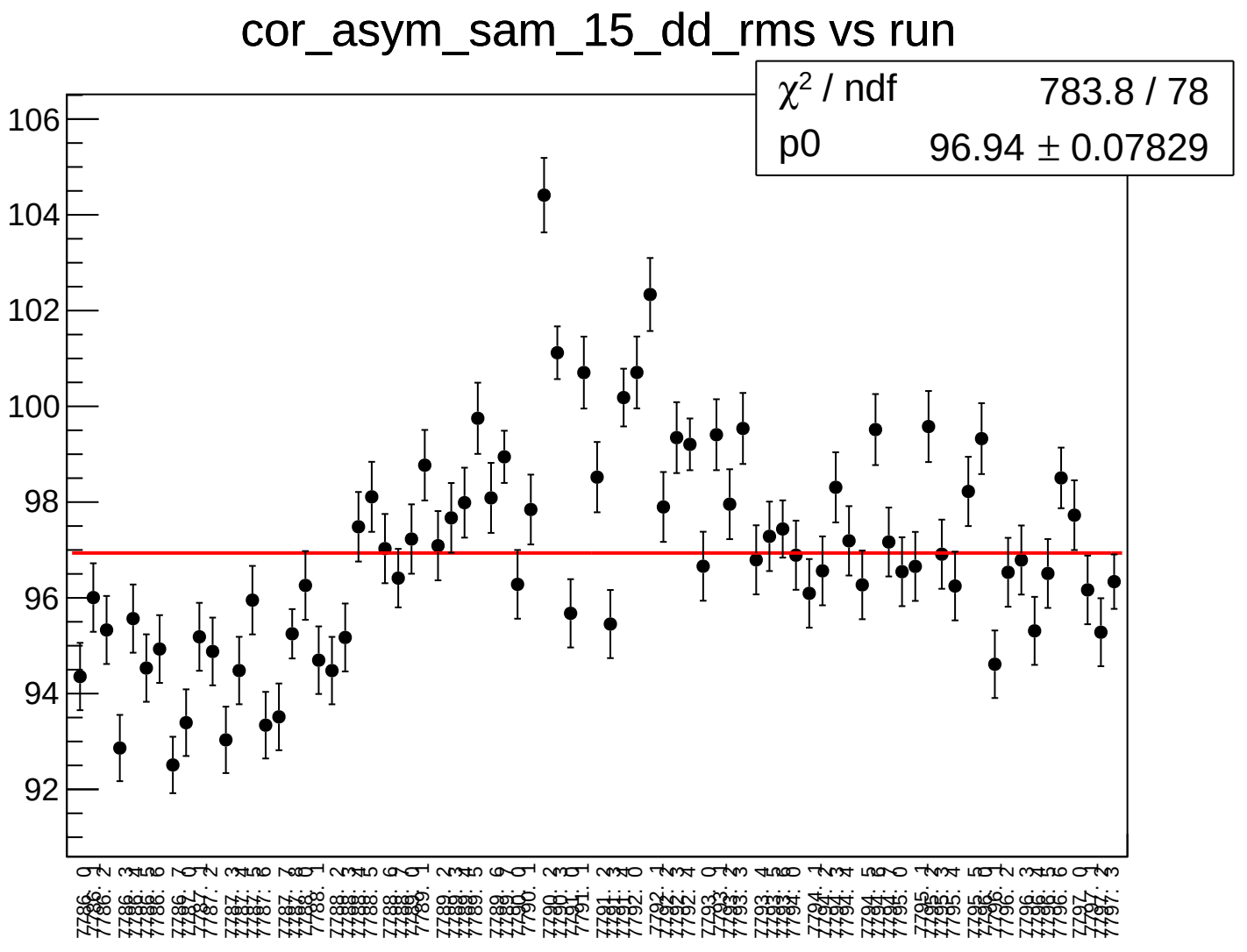

reg_asym_sam_15_dd_rms vs run
χ² / ndf 783.8 / 78
p0 96.94 ± 0.07829
106
104
102
100
98
96
94
92

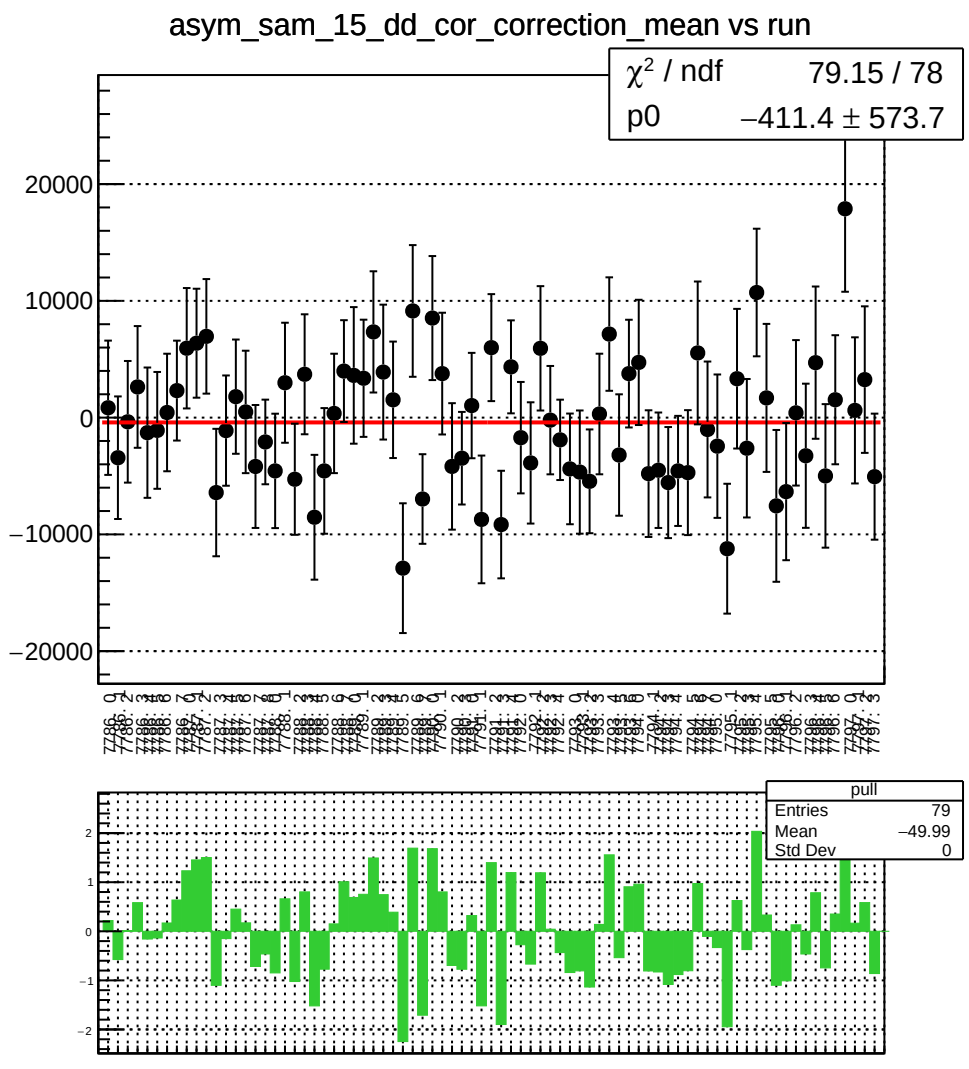

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 79.15 / 78
p0 −411.4 ± 573.7
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −50
Std Dev 0
2
1
0
−1
−2

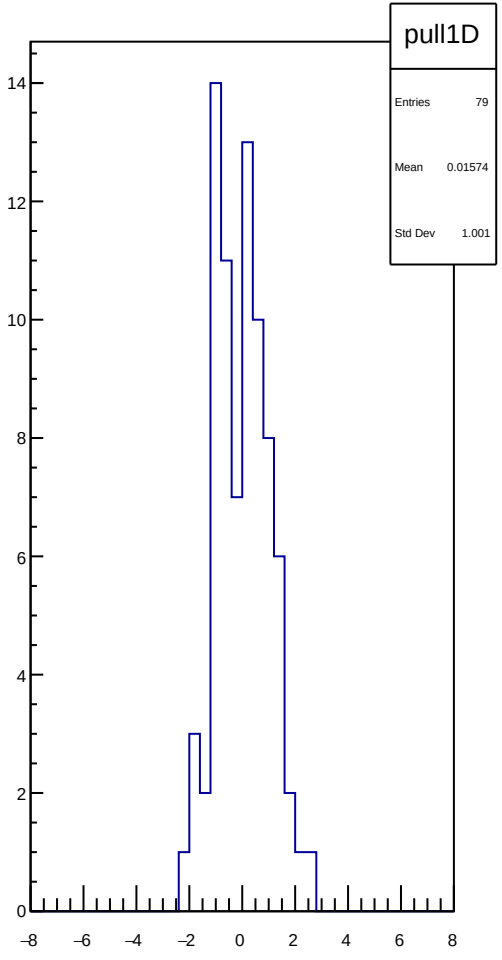

pull1D
Entries 79
Mean 0.01574
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

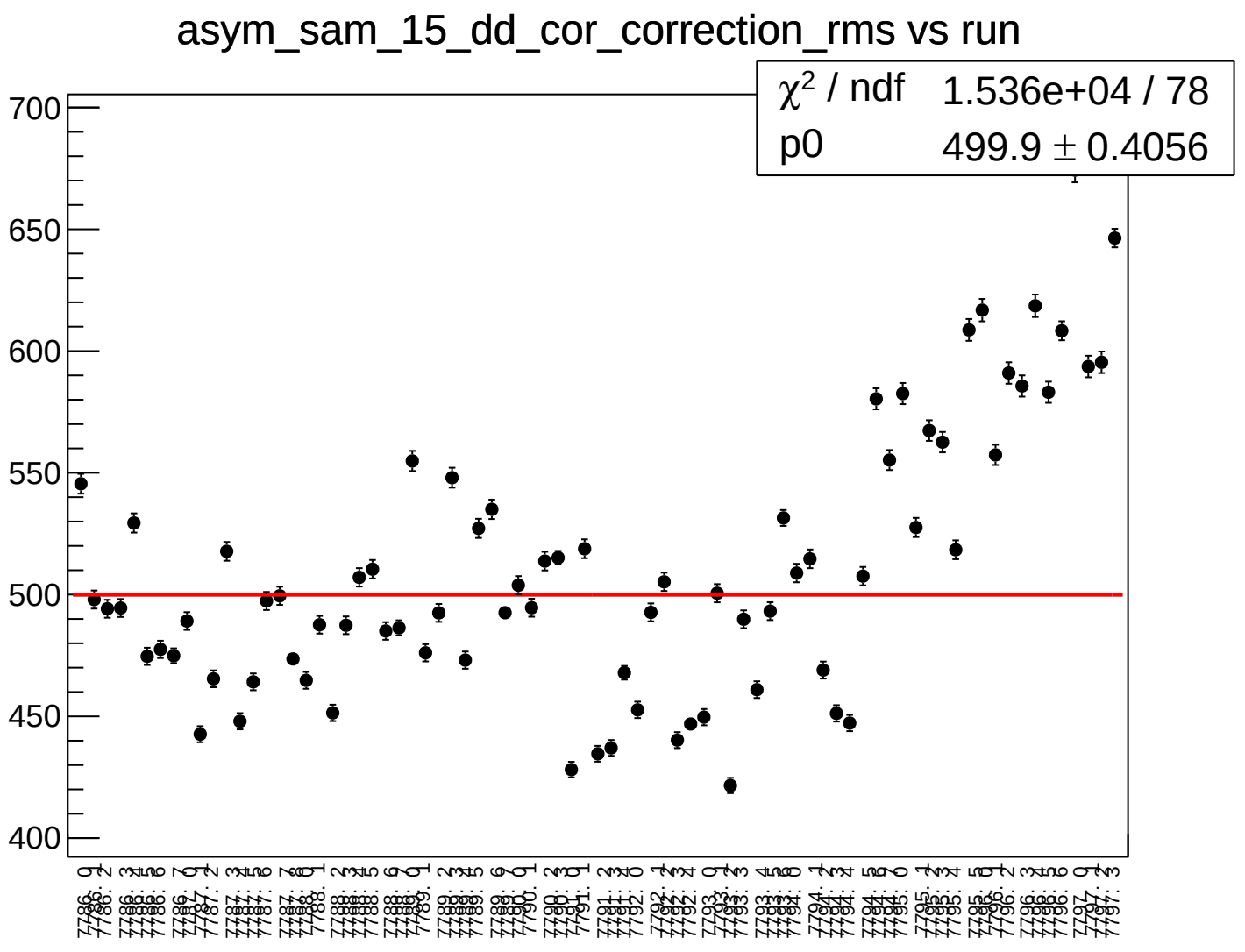

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 1.536e+04 / 78
p0 499.9 ± 0.4056
700
650
600
550
500
450
400

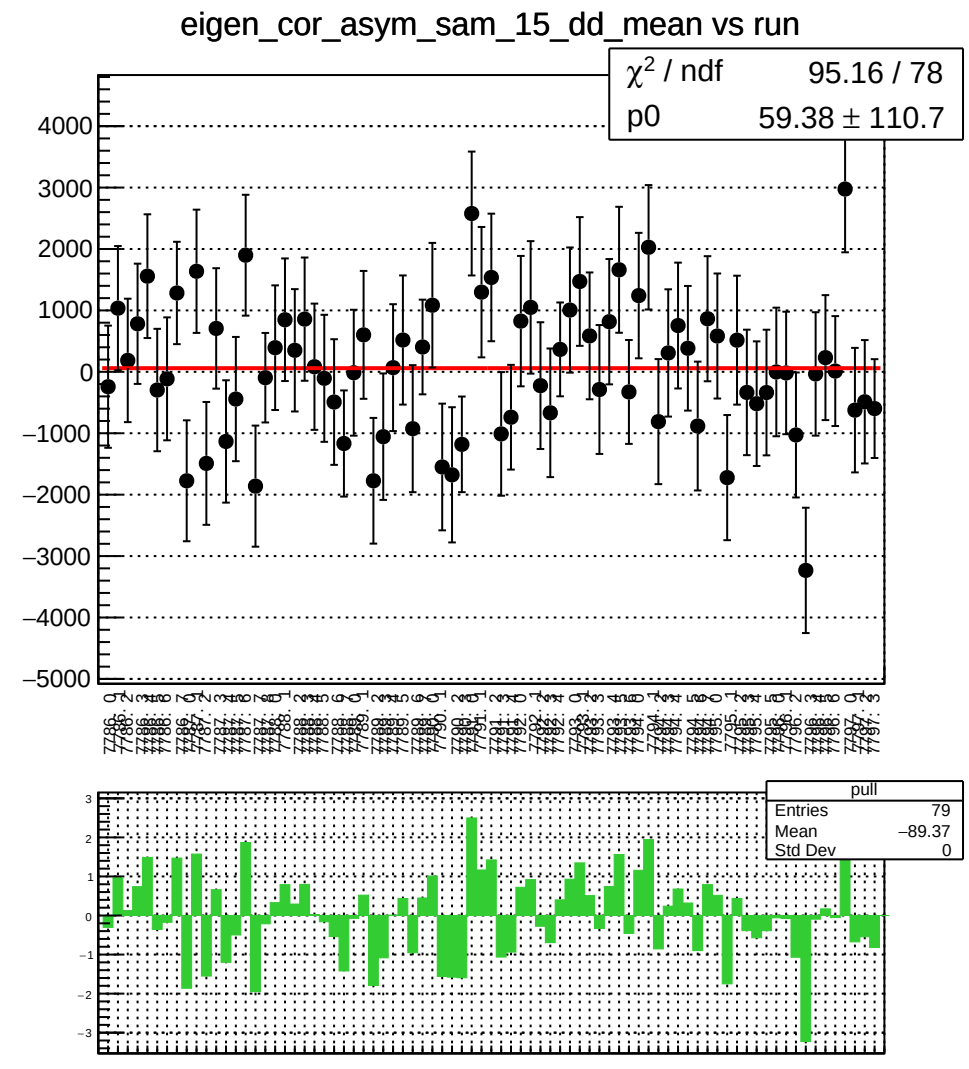

cor_asym_sam_15_dd_mean vs run
χ² / ndf 95.16 / 78
p0 59.38 ± 110.7
pull
Entries 79
Mean −89.37
Std Dev 0
pull1D
Entries 79
Mean 0.009686
Std Dev 1.097

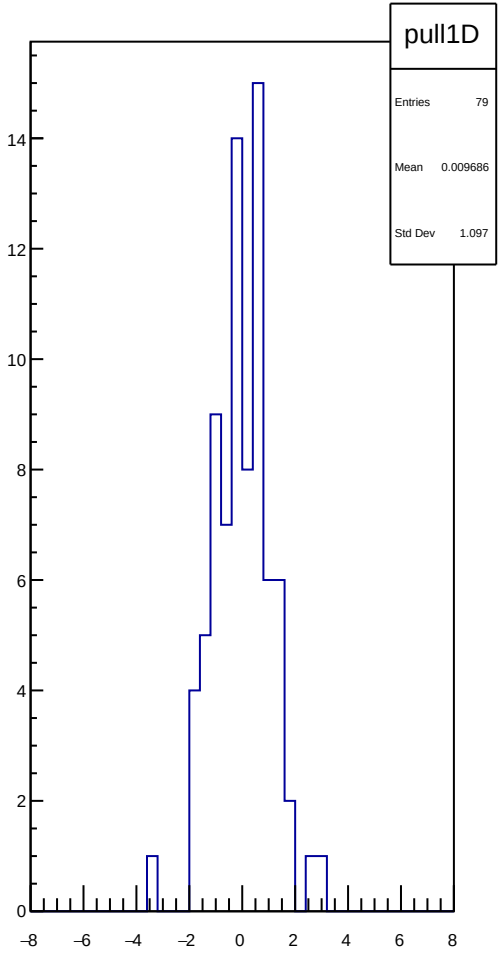

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 783.8 / 78
p0 96.94 ± 0.07829
106
104
102
100
98
96
94
92

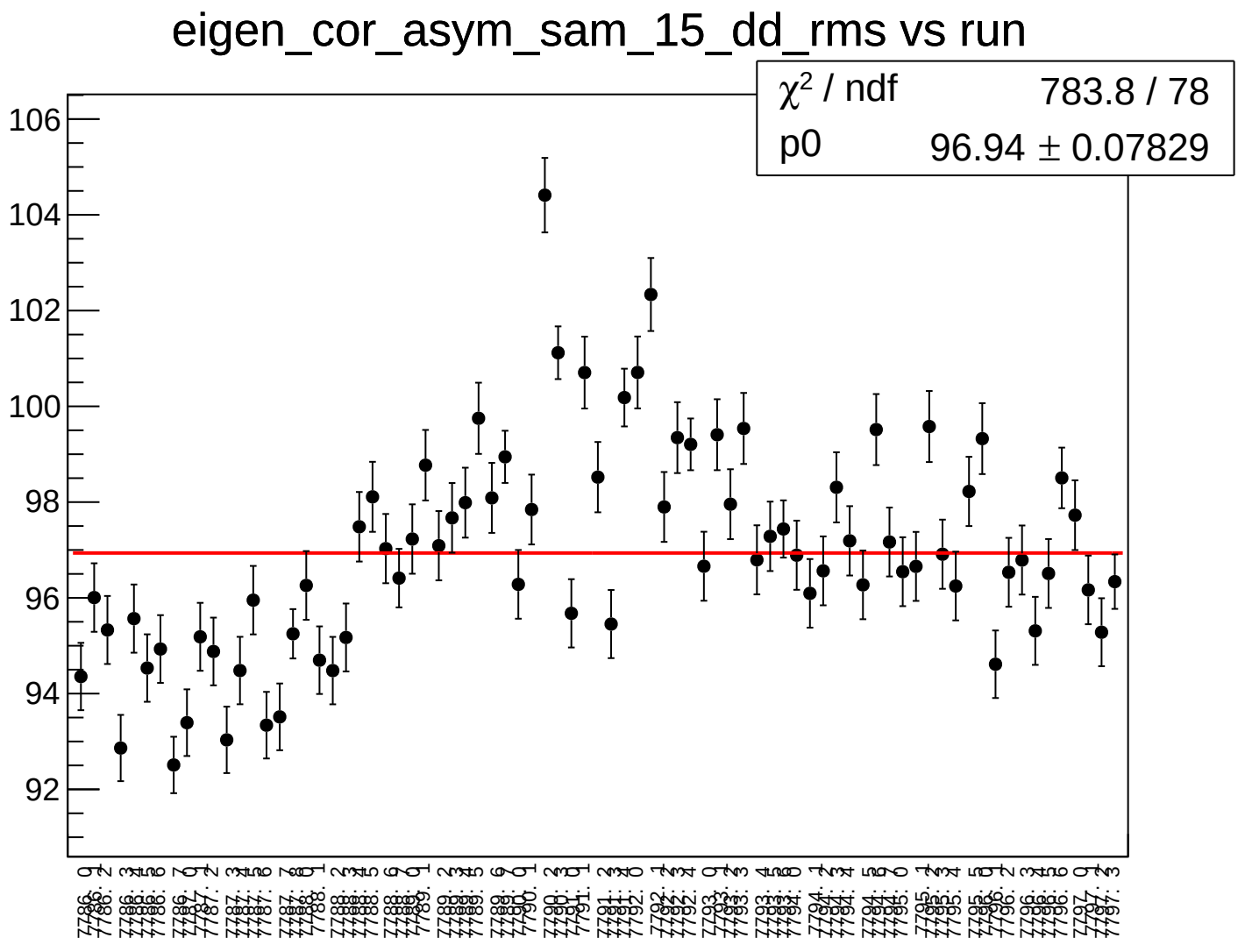

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 79.15 / 78
p0 −411.4 ± 573.7
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −49.99
Std Dev 0
2
1
0
−1
−2

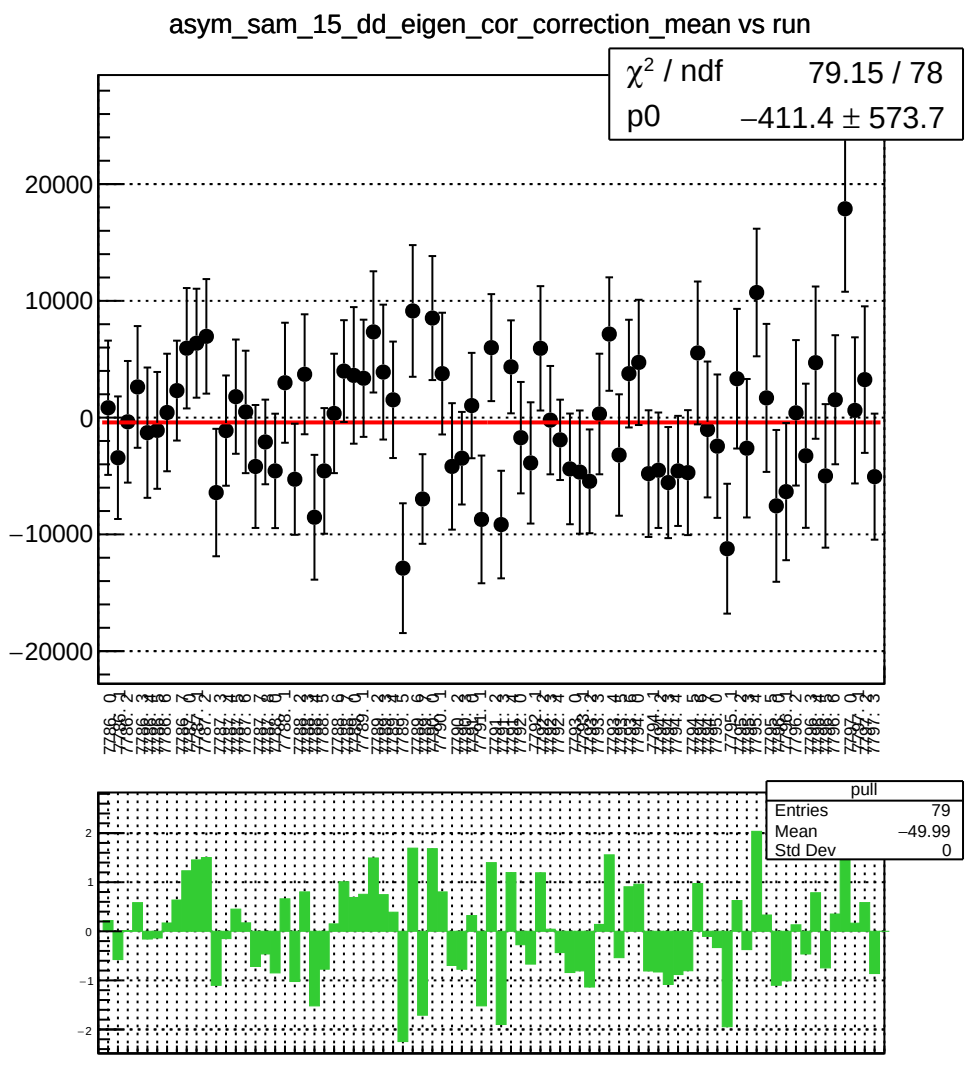

pull1D
Entries 79
Mean 0.01574
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

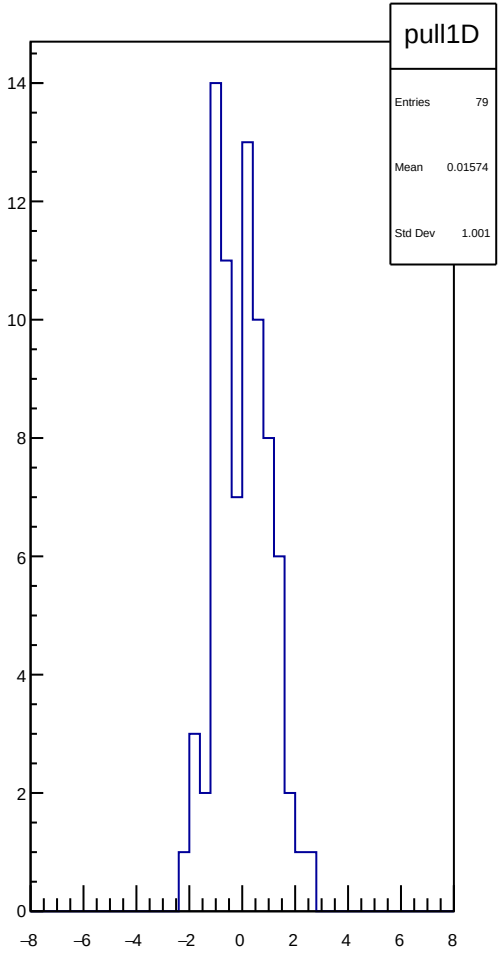

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1.536e+04 / 78
p0 499.9 ± 0.4056
700
650
600
550
500
450
400

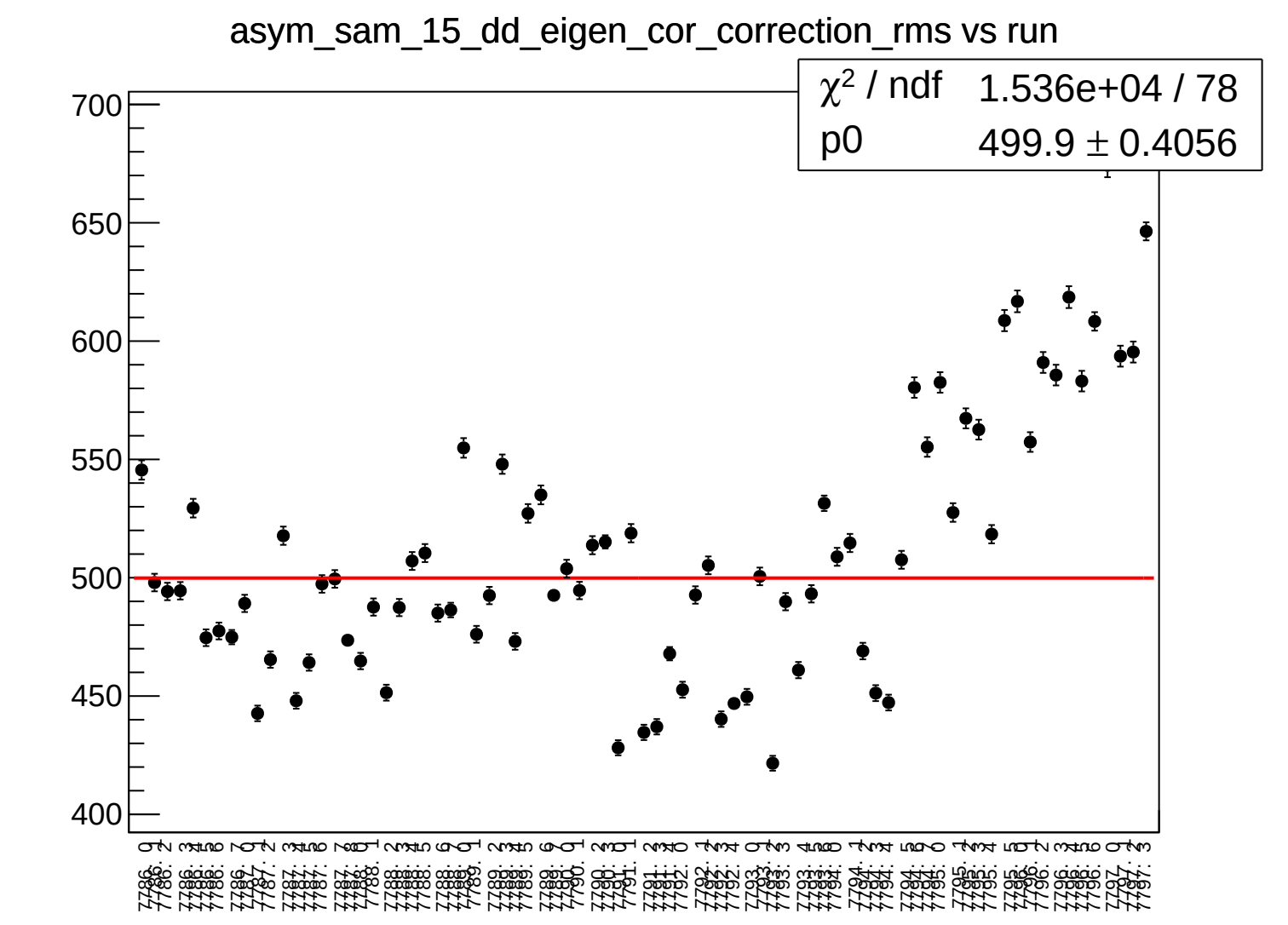

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 95.16 / 78
p0 59.38 ± 110.7
pull
Entries 79
Mean −89.37
Std Dev 0

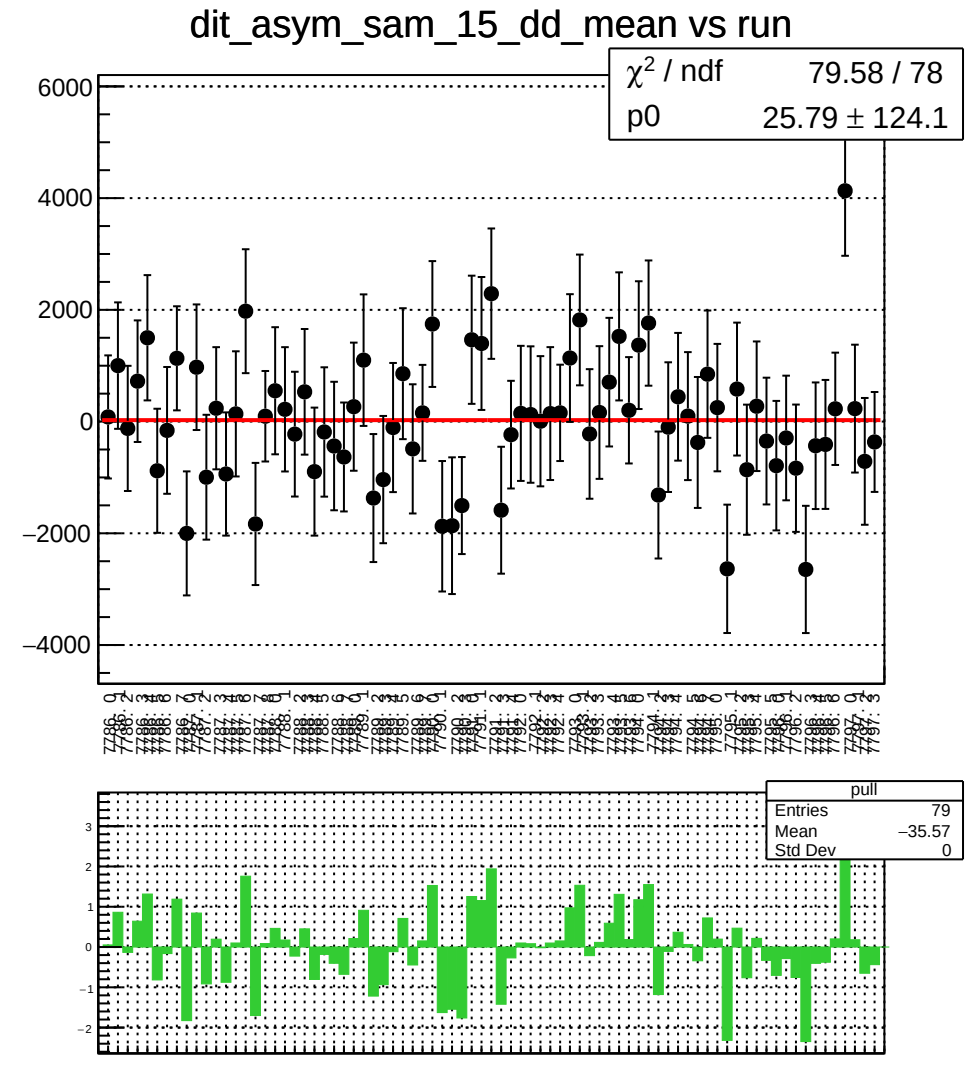

pull1D
Entries 79
Mean 0.009686
Std Dev 1.097

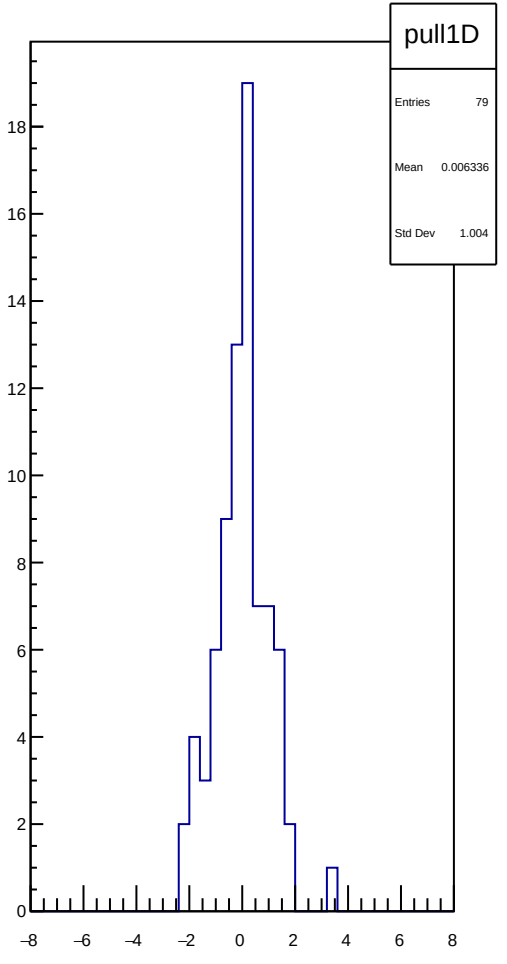

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 783.8 / 78
p0 96.94 ± 0.07829
106
104
102
100
98
96
94
92

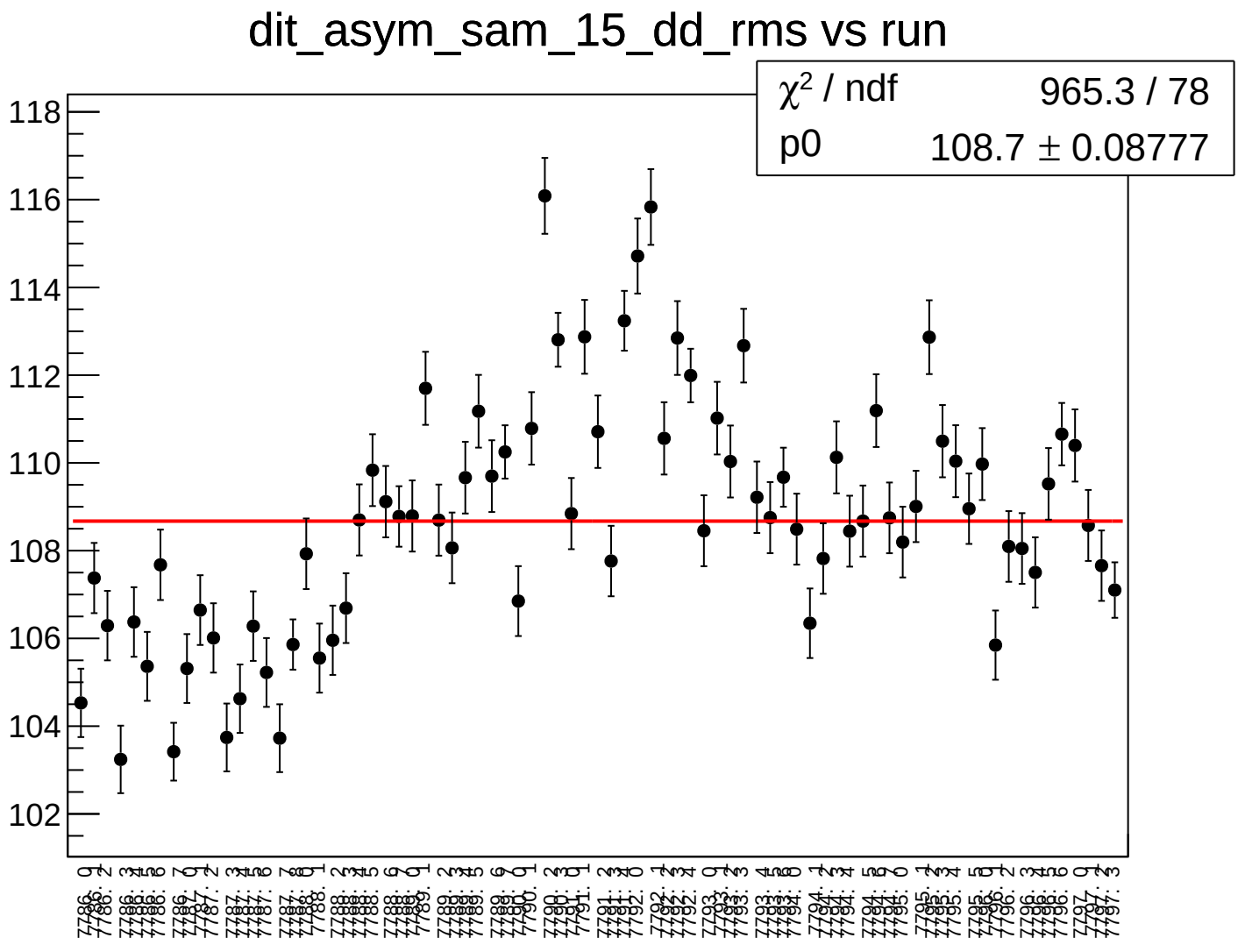

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.15 / 78
p0 −411.4 ± 573.7
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −49.99
Std Dev 0
2
1
0
−1
−2

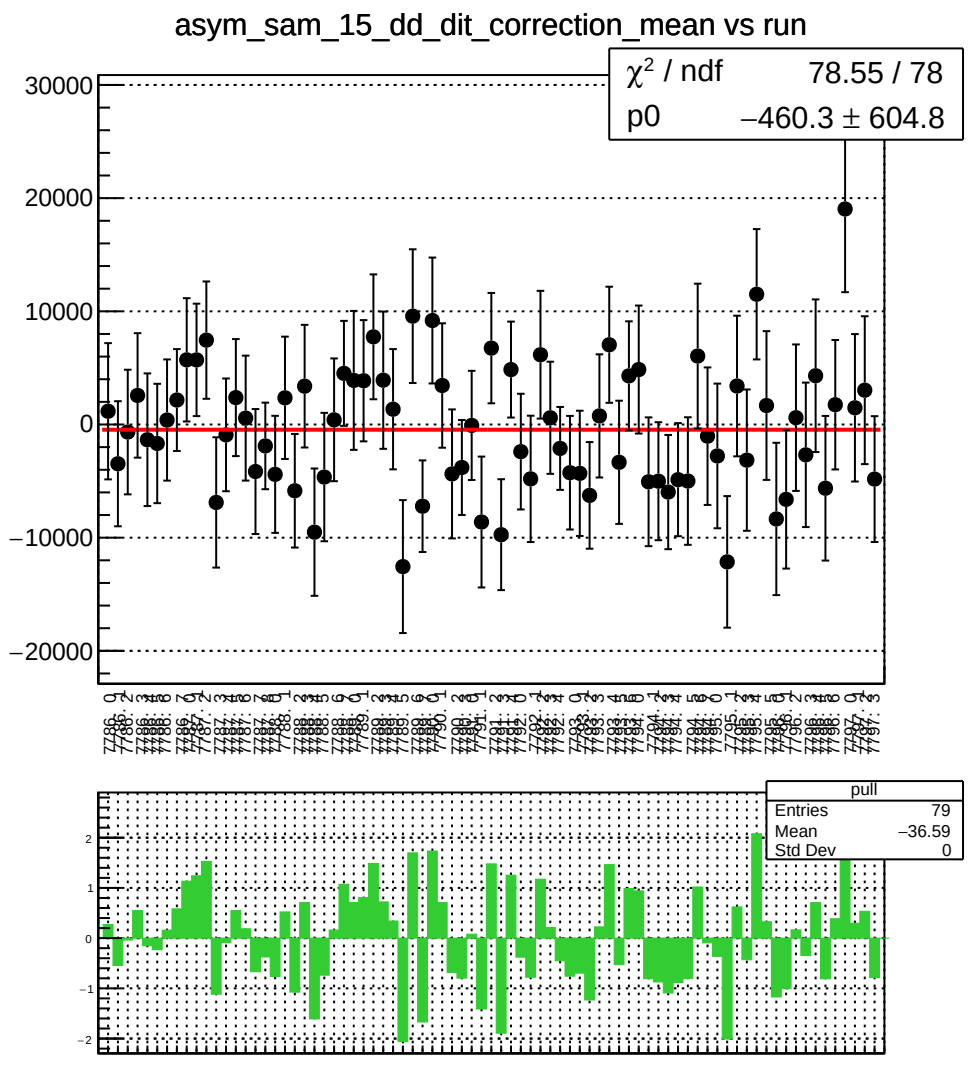

pull1D
Entries 79
Mean 0.01574
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

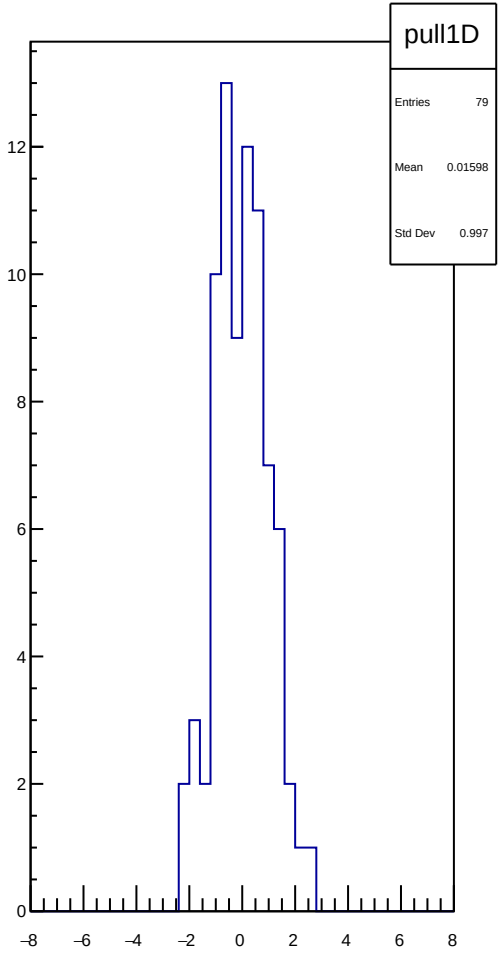

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.536e+04 / 78
p0 499.9 ± 0.4056
700
650
600
550
500
450
400

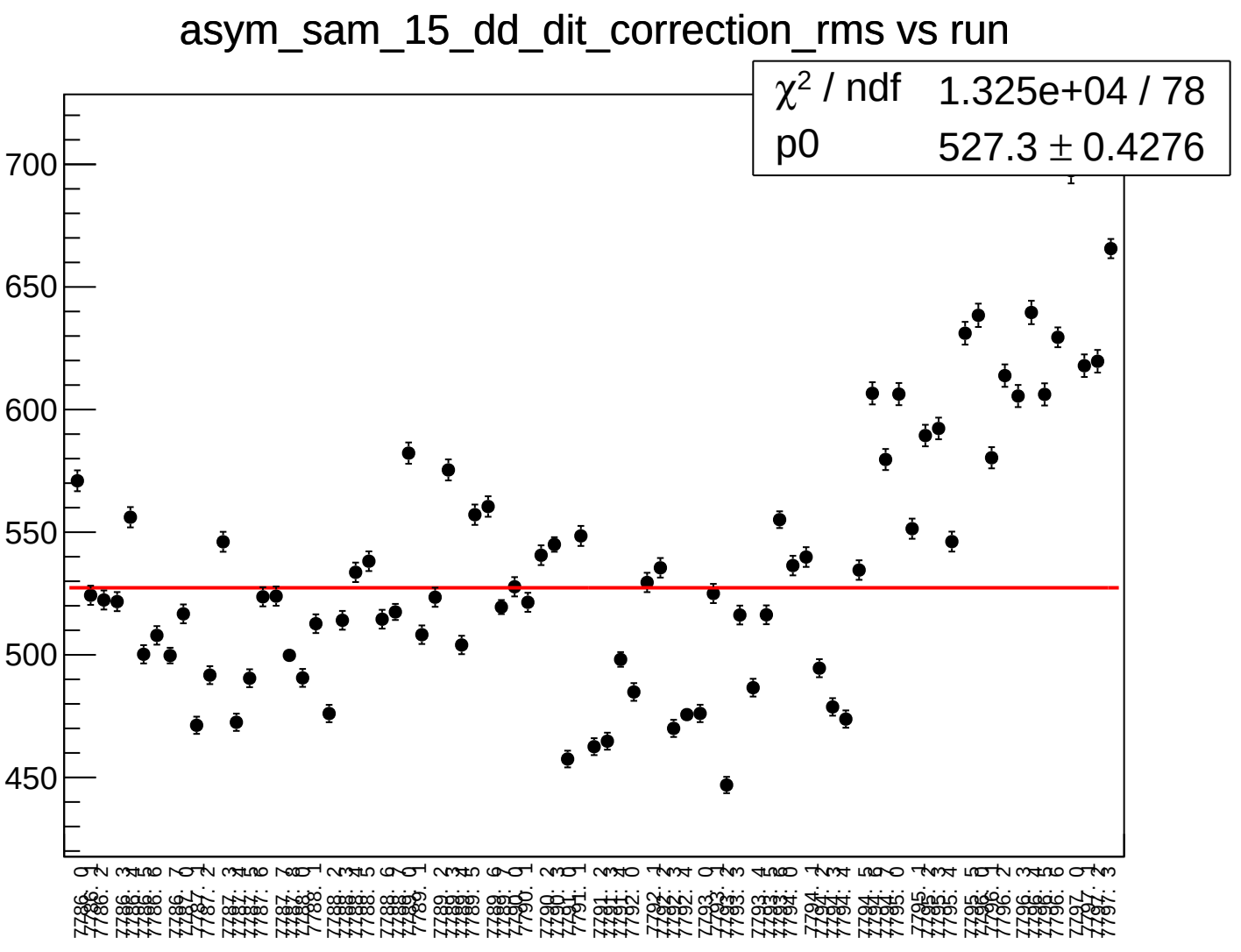

dit_asym_sam_15_dd_mean vs run
χ² / ndf 79.58 / 78
p0 25.79 ± 124.1
6000
4000
2000
0
−2000
−4000
pull
Entries 79
Mean −35.57
Std Dev 0
3
2
1
0
−1
−2

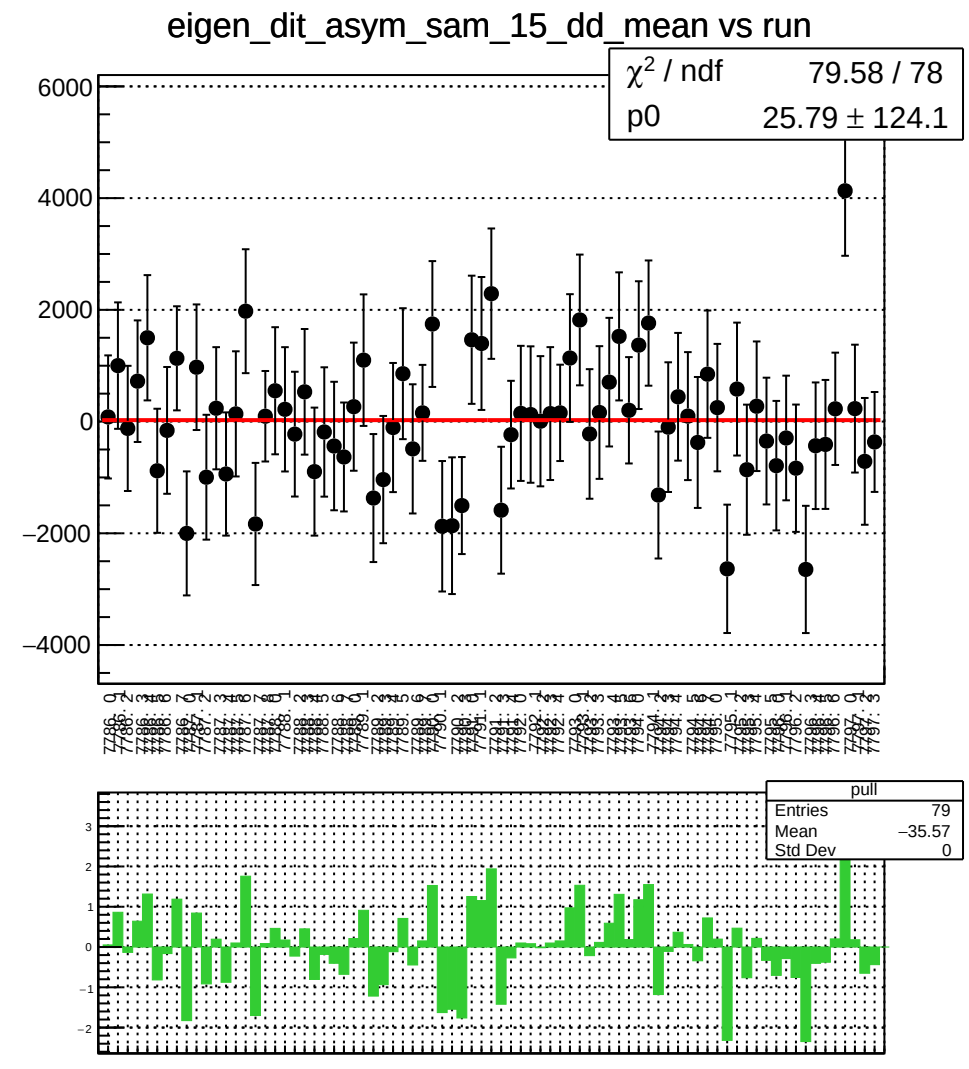

pull1D
Entries 79
Mean 0.006336
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

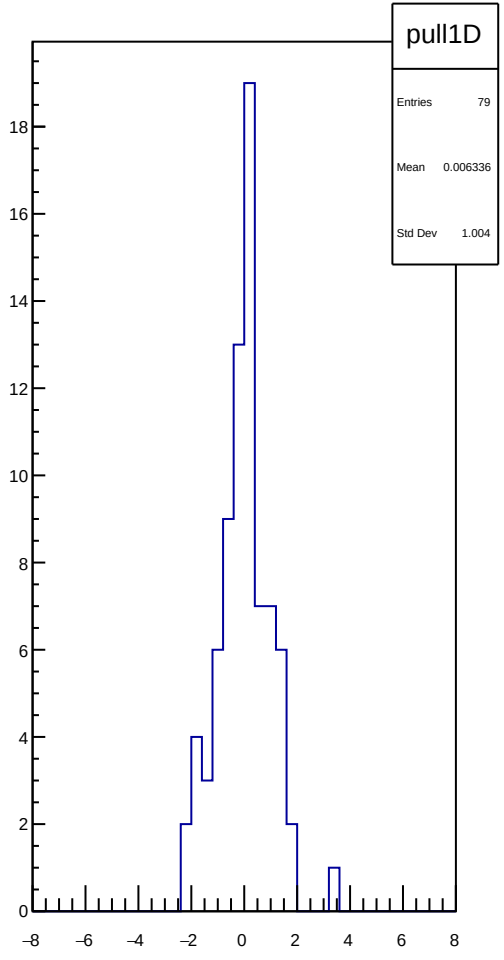

dit_asym_sam_15_dd_rms vs run
χ² / ndf 965.3 / 78
p0 108.7 ± 0.08777
118
116
114
112
110
108
106
104
102

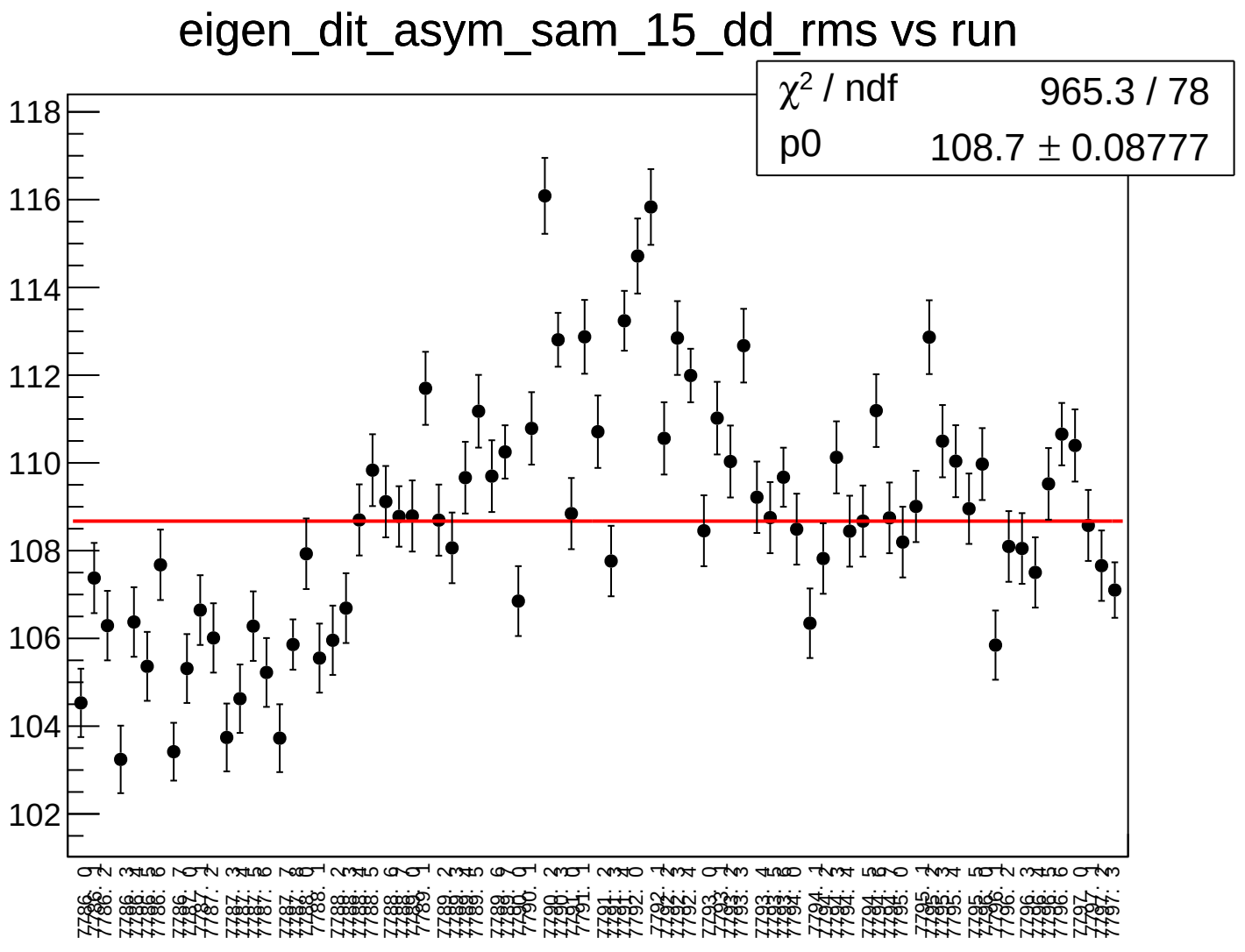

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 78.55 / 78
p0 −460.3 ± 604.8
30000
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −36.59
Std Dev 0
2
1
0
−1
−2

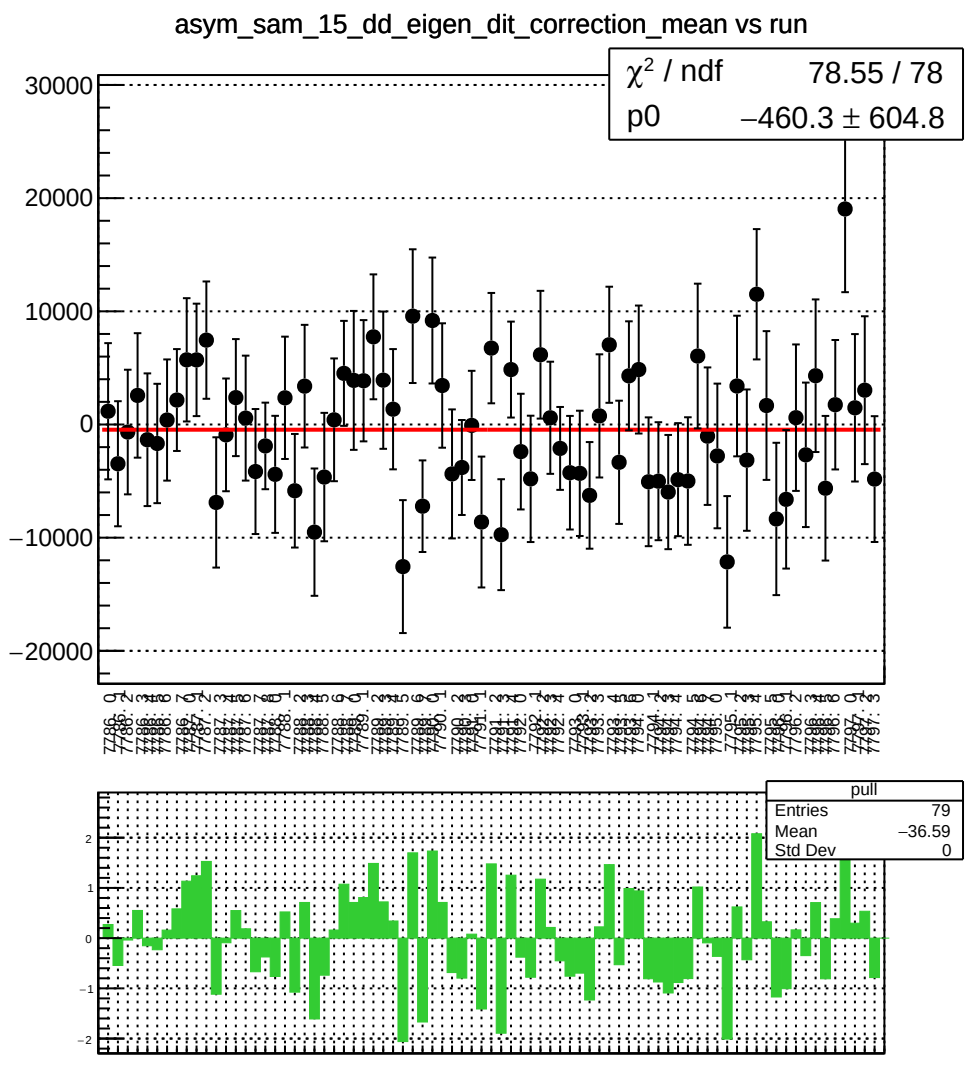

pull1D
Entries 79
Mean 0.01598
Std Dev 0.997
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

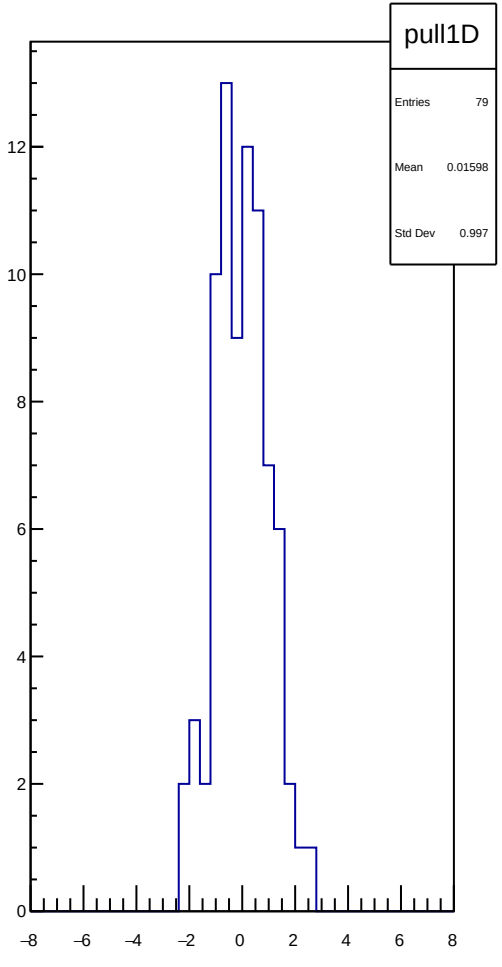

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1.325e+04 / 78
p0 527.3 ± 0.4276
700
650
600
550
500
450

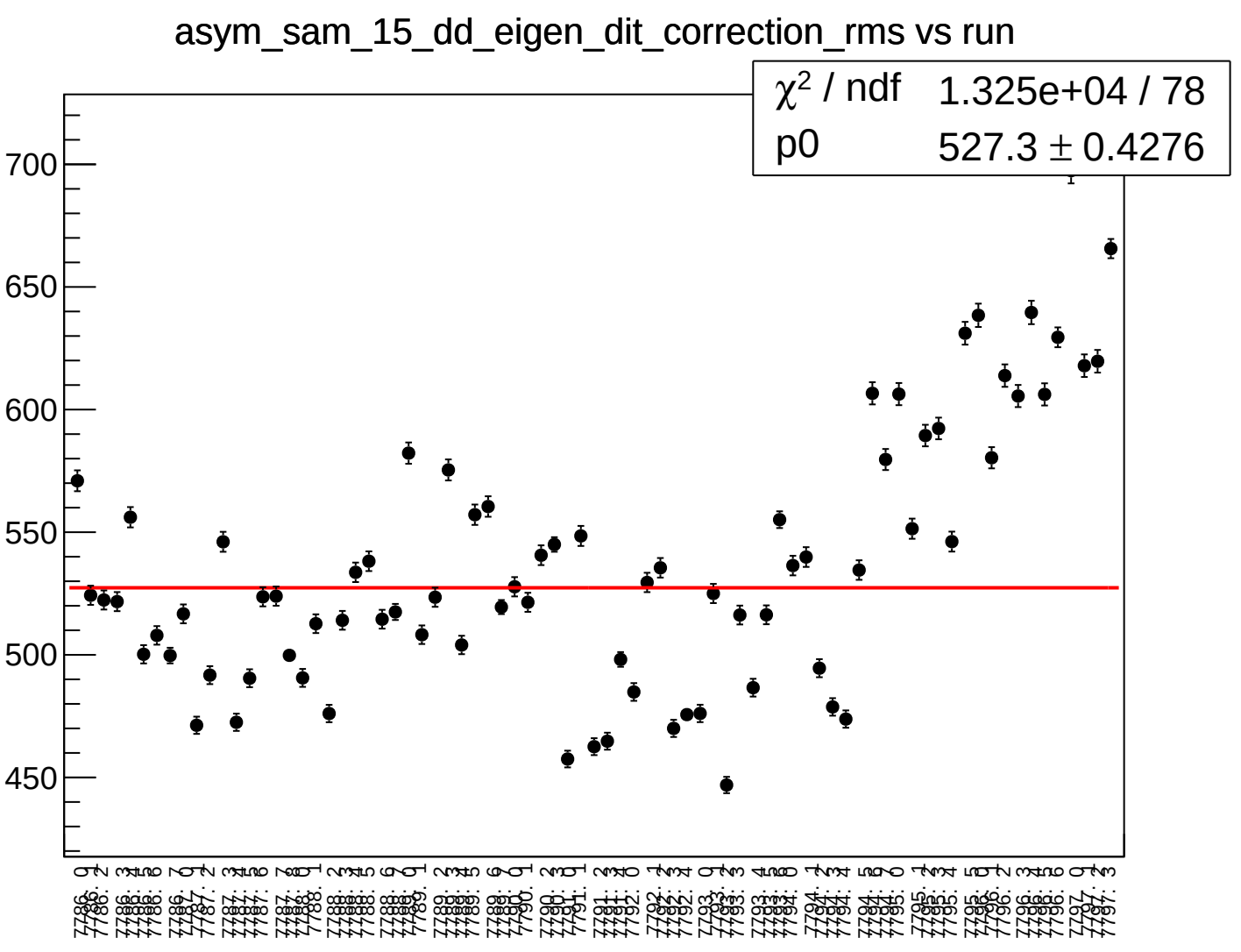

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 79.58 / 78
p0 25.79 ± 124.1
6000
4000
2000
0
−2000
−4000
pull
Entries 79
Mean −35.57
Std Dev 0
3
2
1
0
−1
−2

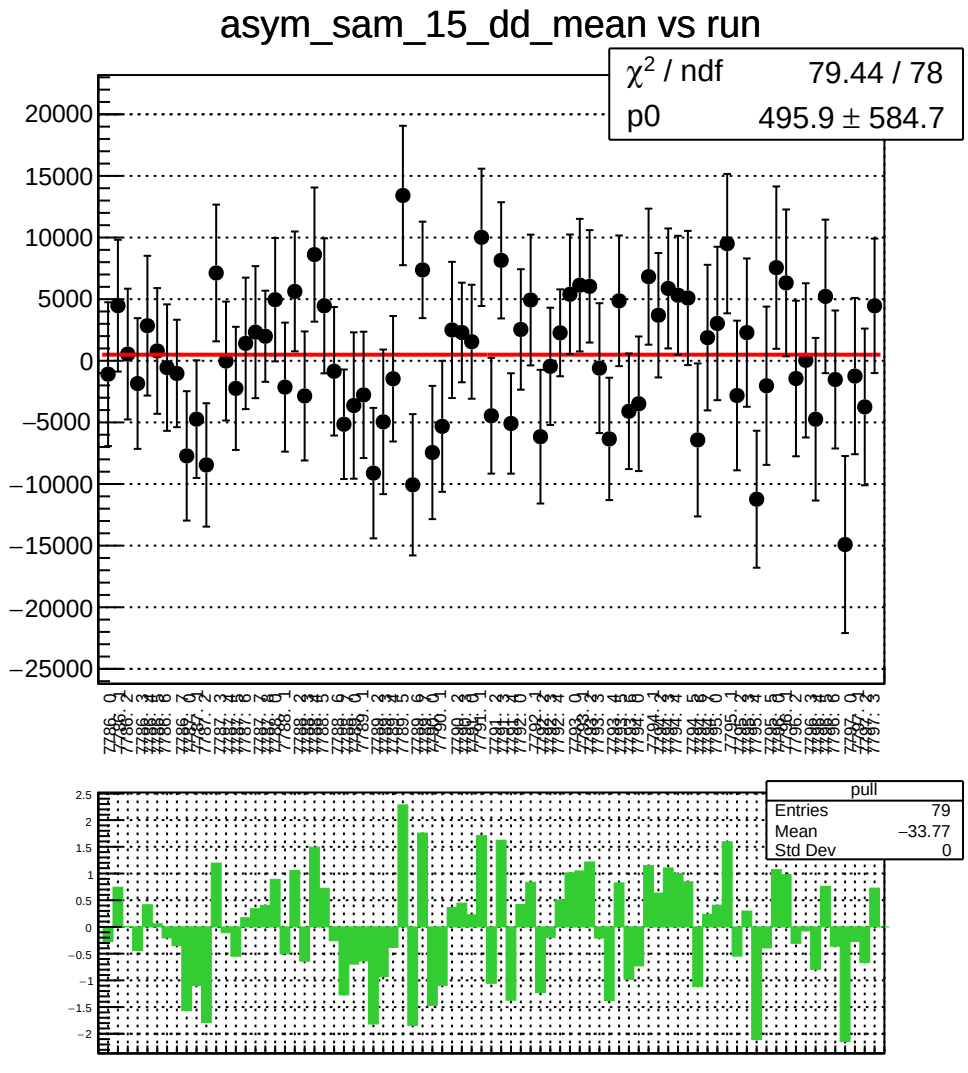

pull1D
Entries 79
Mean 0.006336
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

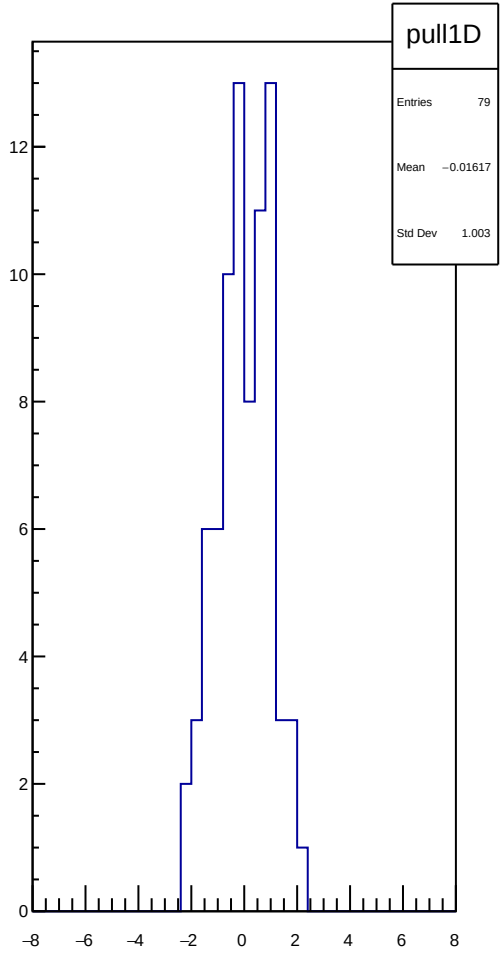

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 965.3 / 78
p0 108.7 ± 0.08777
118
116
114
112
110
108
106
104
102

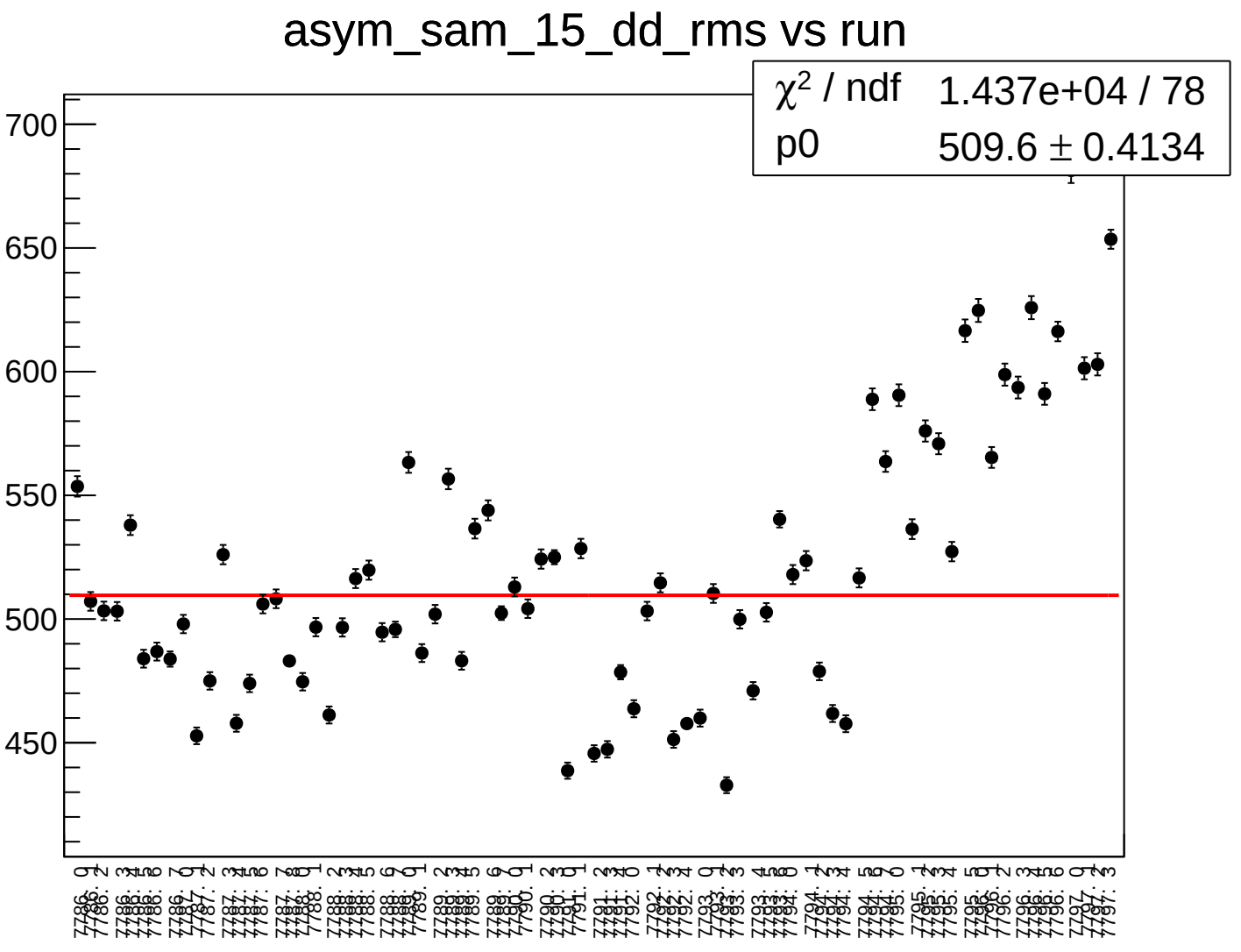

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.55 / 78
p0 −460.3 ± 604.8
30000
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −36.59
Std Dev 0
2
1
0
−1
−2

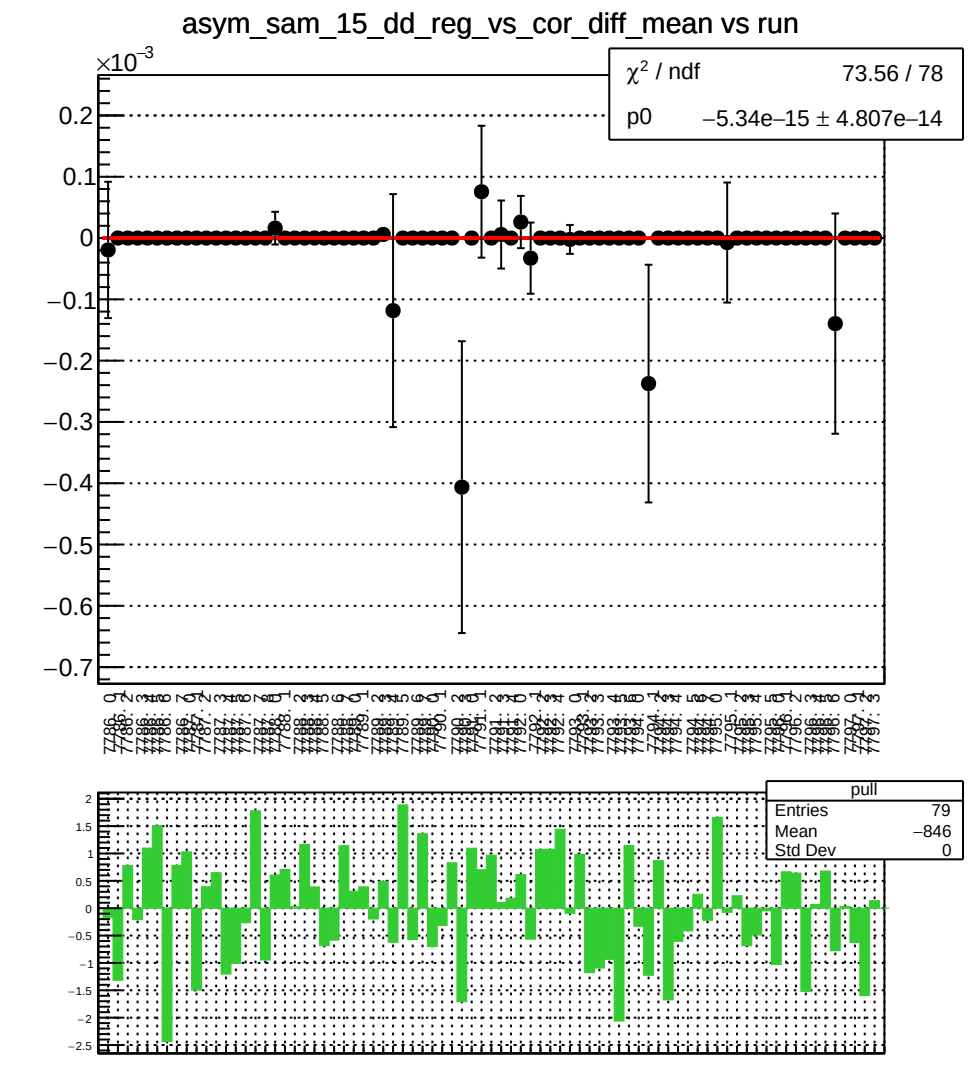

pull1D
Entries 79
Mean 0.01598
Std Dev 0.997
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

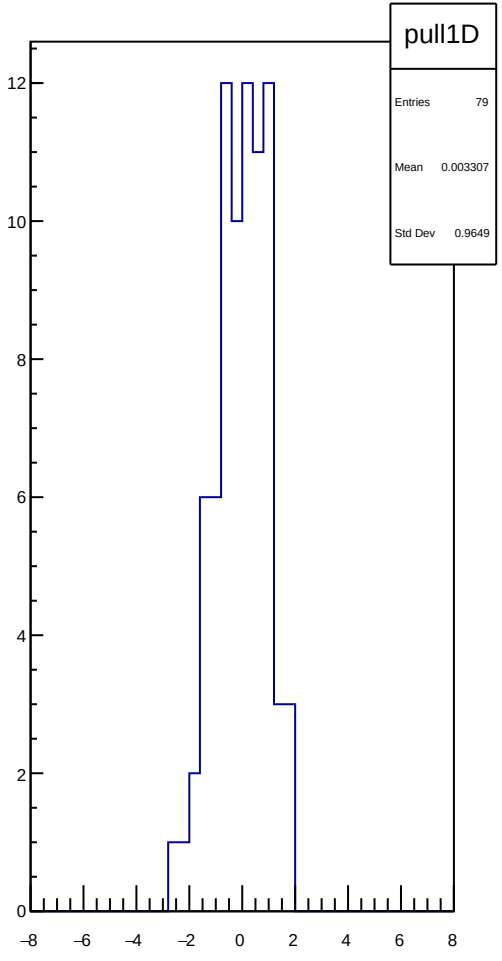

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.325e+04 / 78
p0 527.3 ± 0.4276
700
650
600
550
500
450

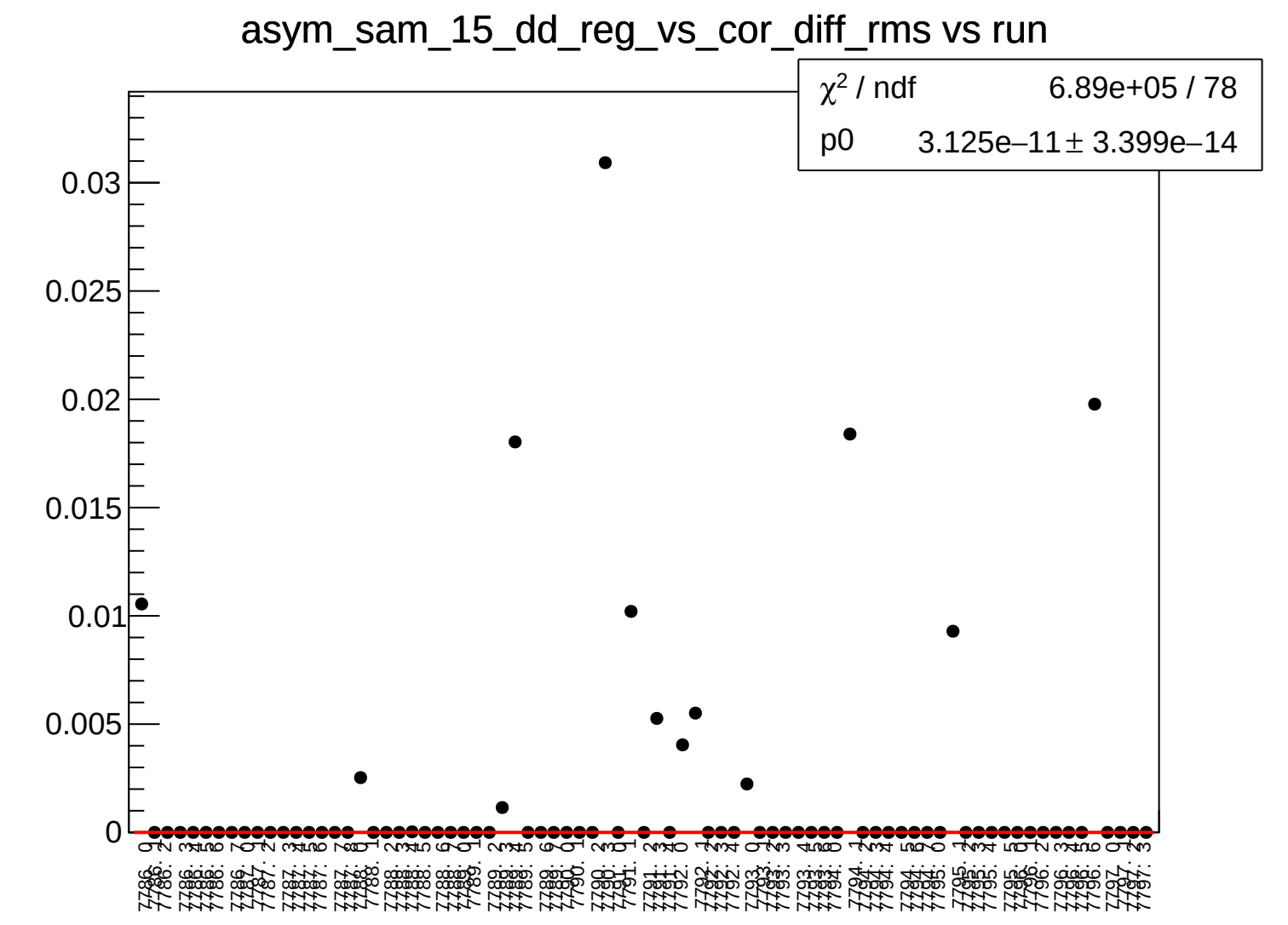

asym_sam_15_dd_mean vs run
χ² / ndf 79.44 / 78
p0 495.9 ± 584.7
pull
Entries 79
Mean −33.77
Std Dev 0

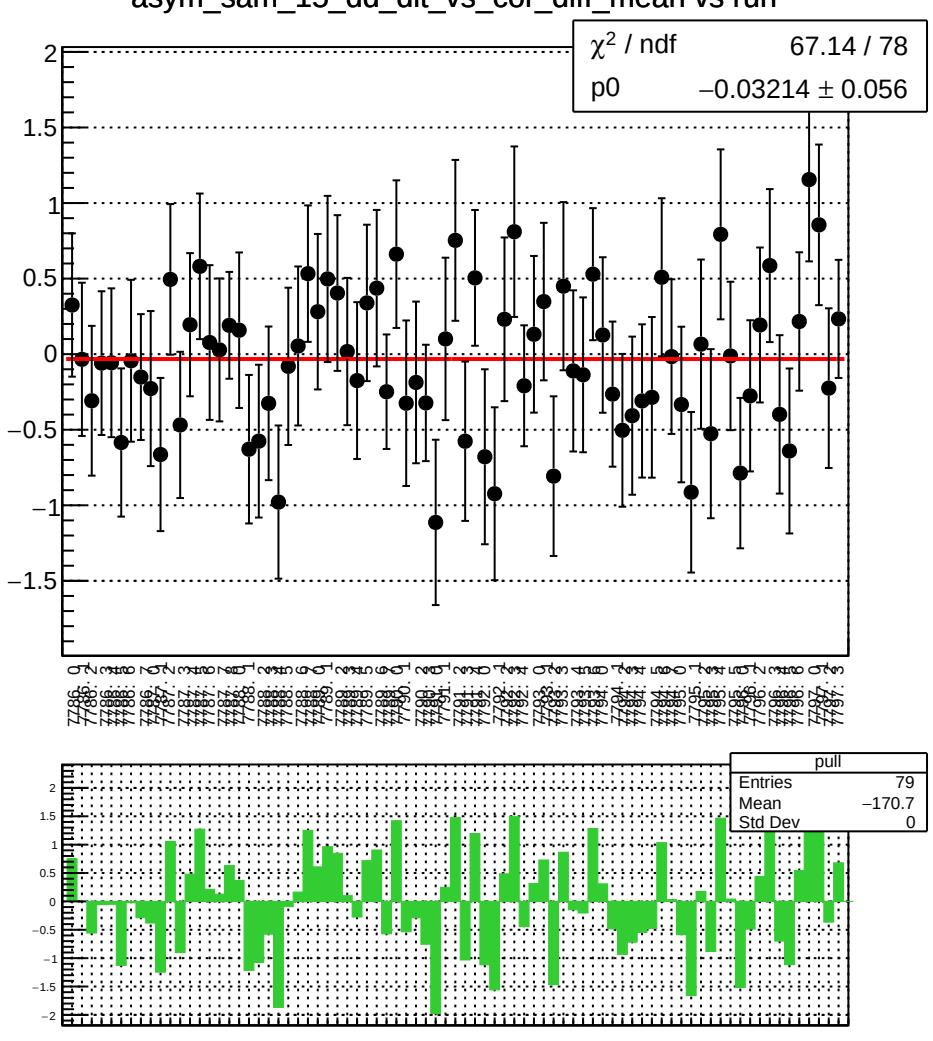

pull1D
Entries 79
Mean −0.01617
Std Dev 1.003

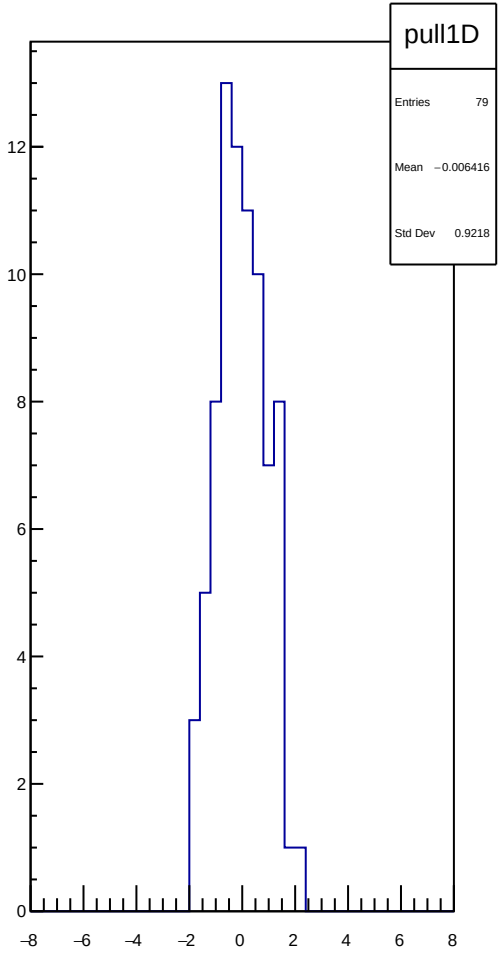

asym_sam_15_dd_rms vs run
χ² / ndf 1.437e+04 / 78
p0 509.6 ± 0.4134
700
650
600
550
500
450

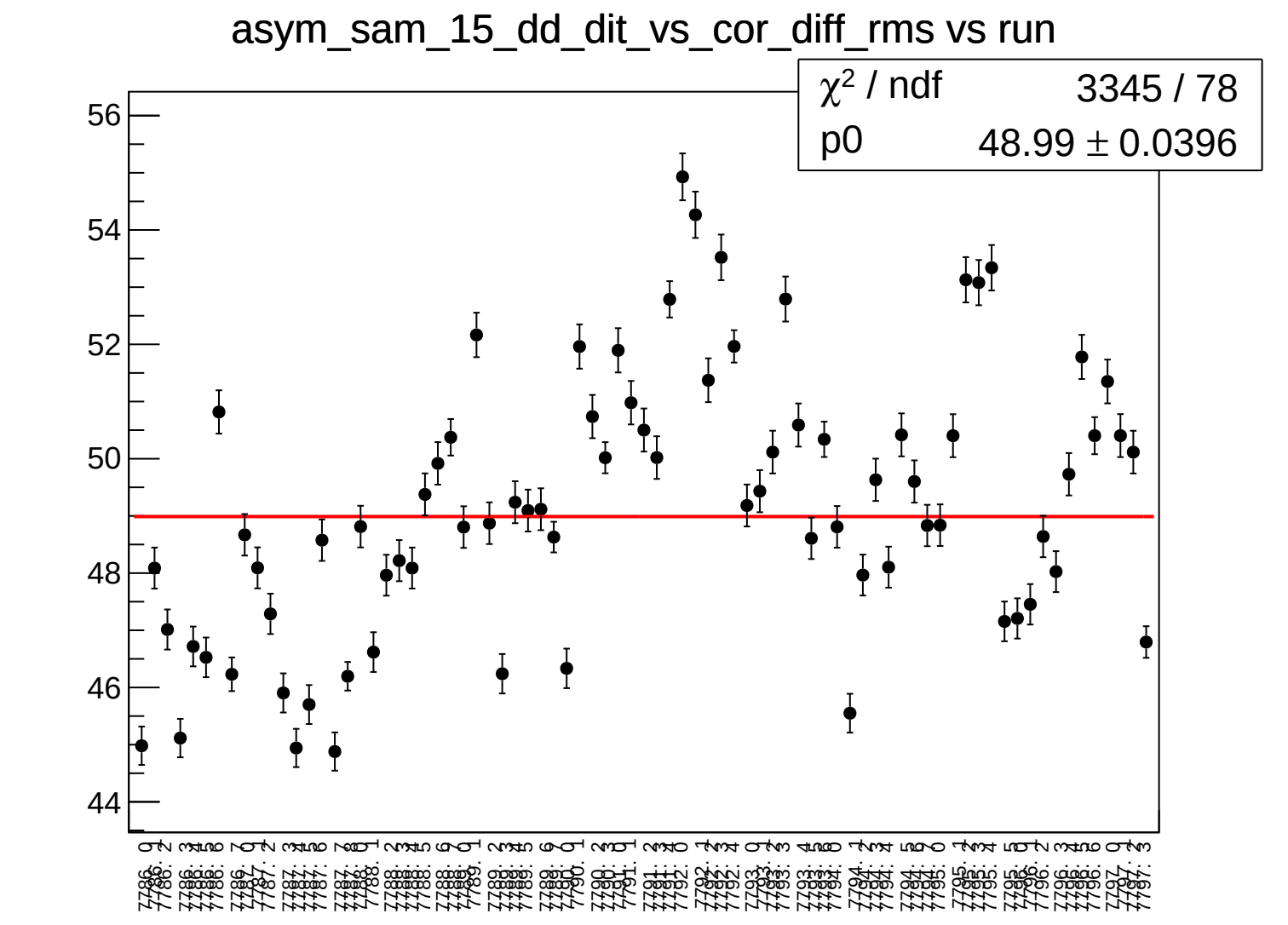

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 73.56 / 78
p0 −5.34e−15 ± 4.807e−14
pull
Entries 79
Mean −846
Std Dev 0

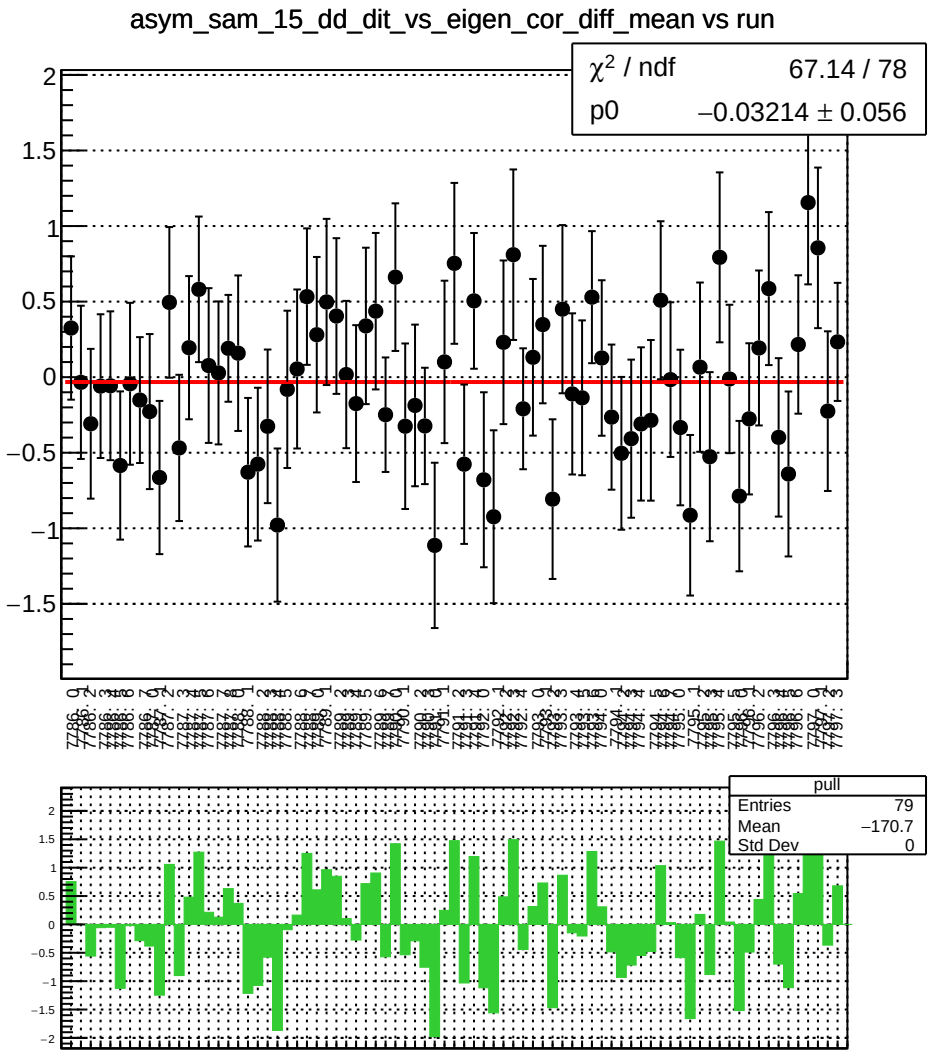

pull1D
Entries 79
Mean 0.003307
Std Dev 0.9649

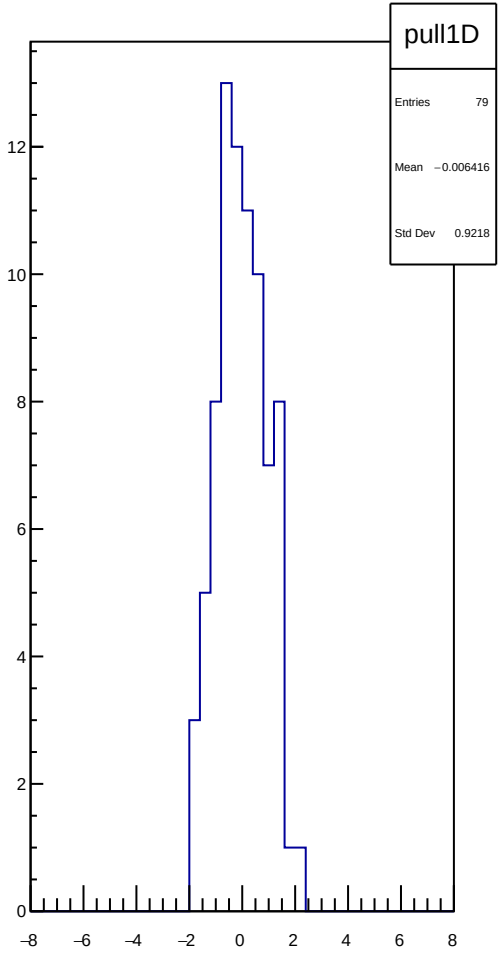

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.89e+05 / 78
p0 3.125e−11 ± 3.399e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

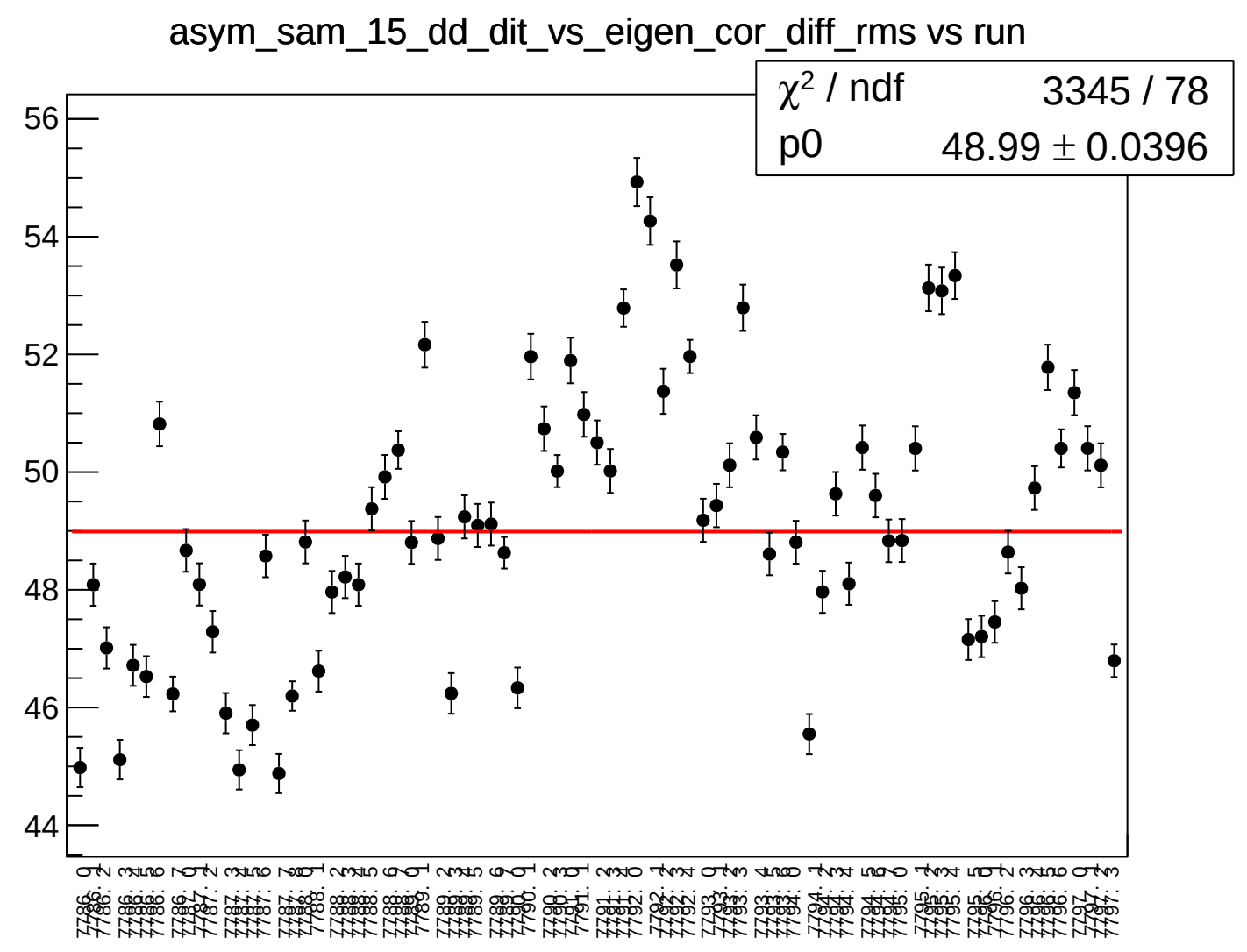

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.14 / 78
p0 −0.03214 ± 0.056
pull
Entries 79
Mean −170.7
Std Dev 0

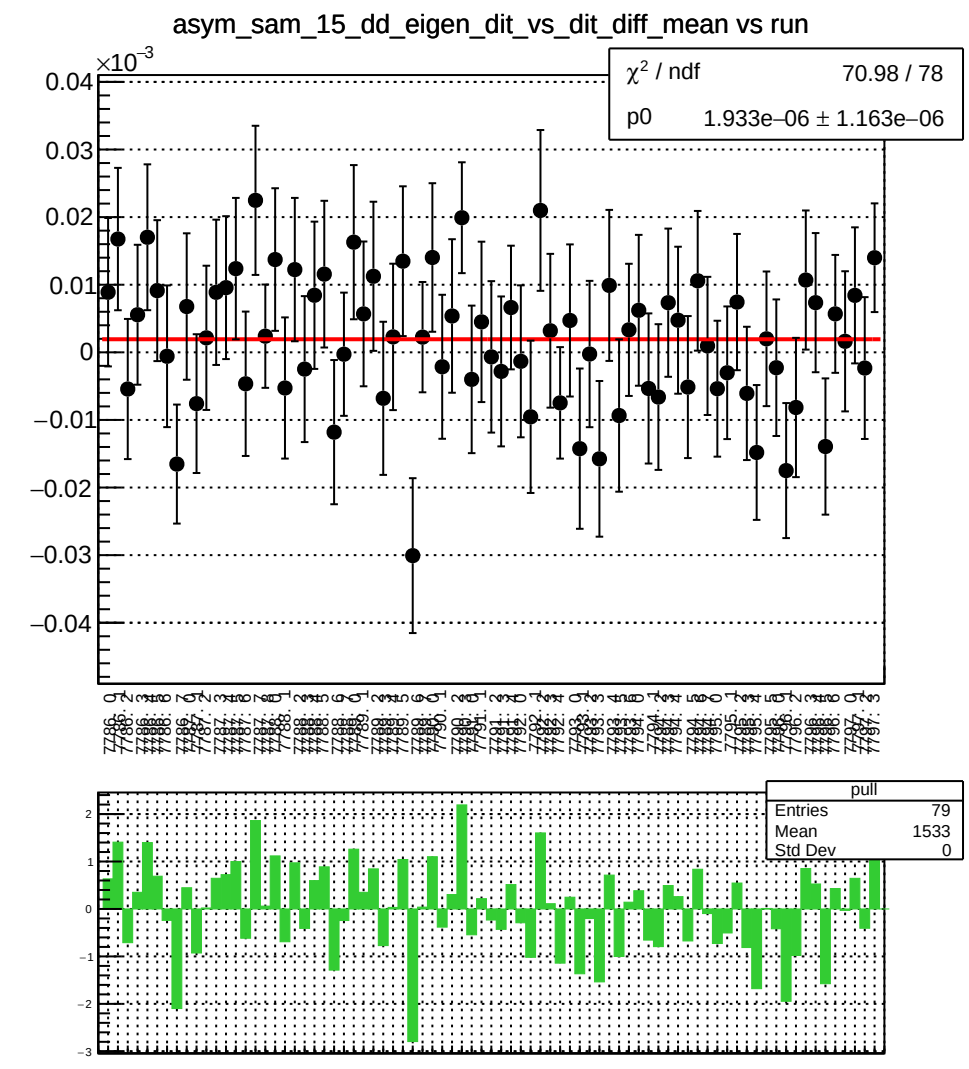

pull1D
Entries 79
Mean −0.006416
Std Dev 0.9218

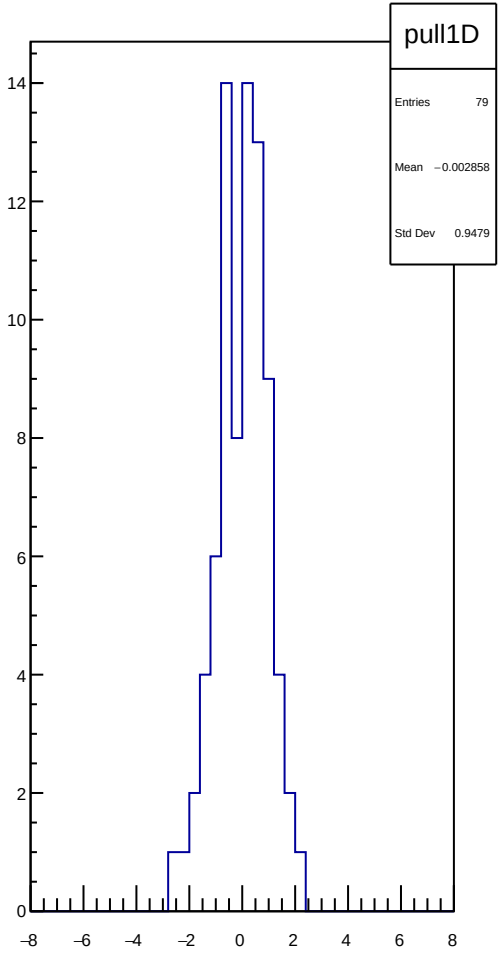

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3345 / 78
p0 48.99 ± 0.0396
56
54
52
50
48
46
44

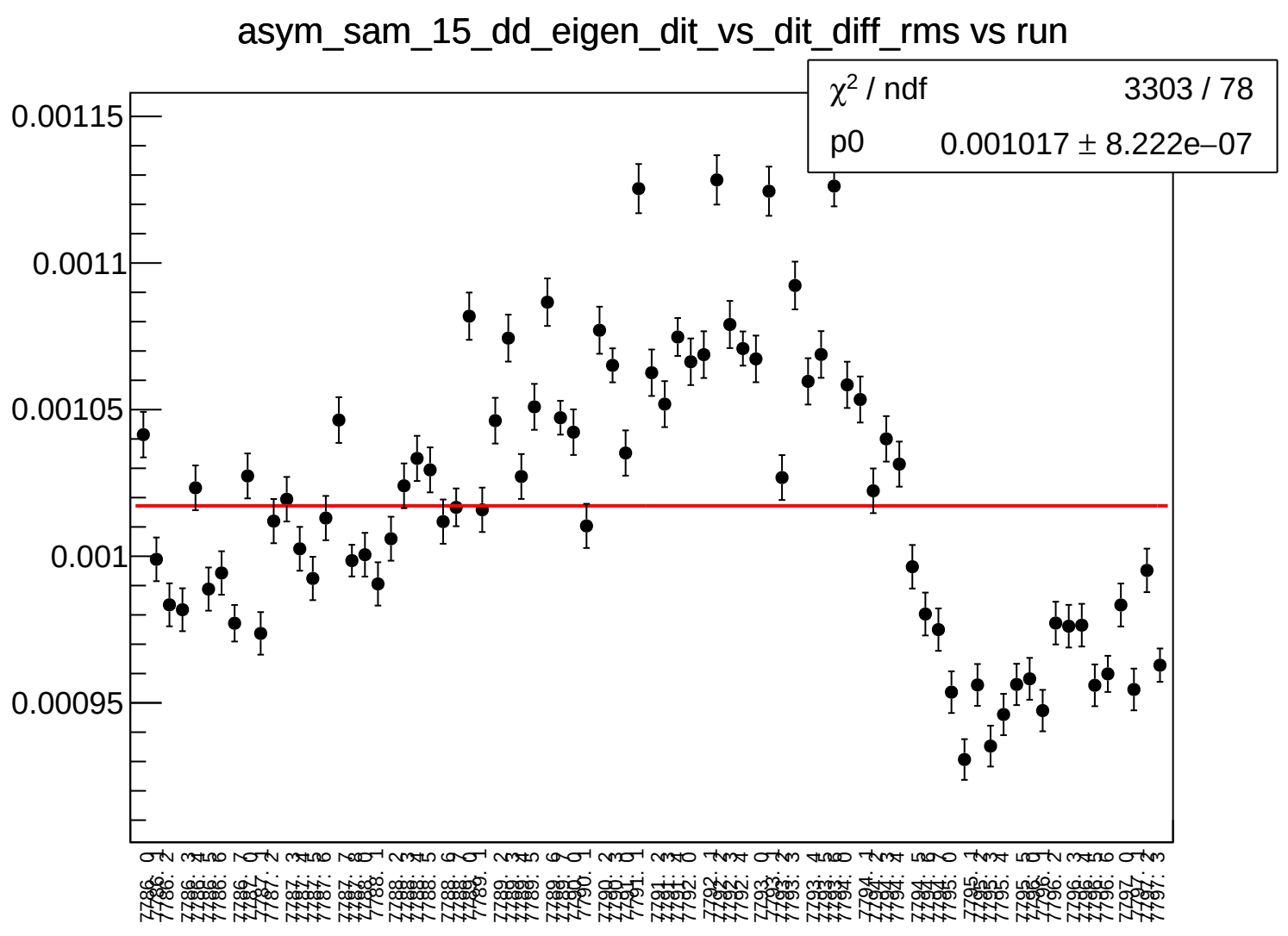

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.14 / 78
p0 −0.03214 ± 0.056
pull
Entries 79
Mean −170.7
Std Dev 0

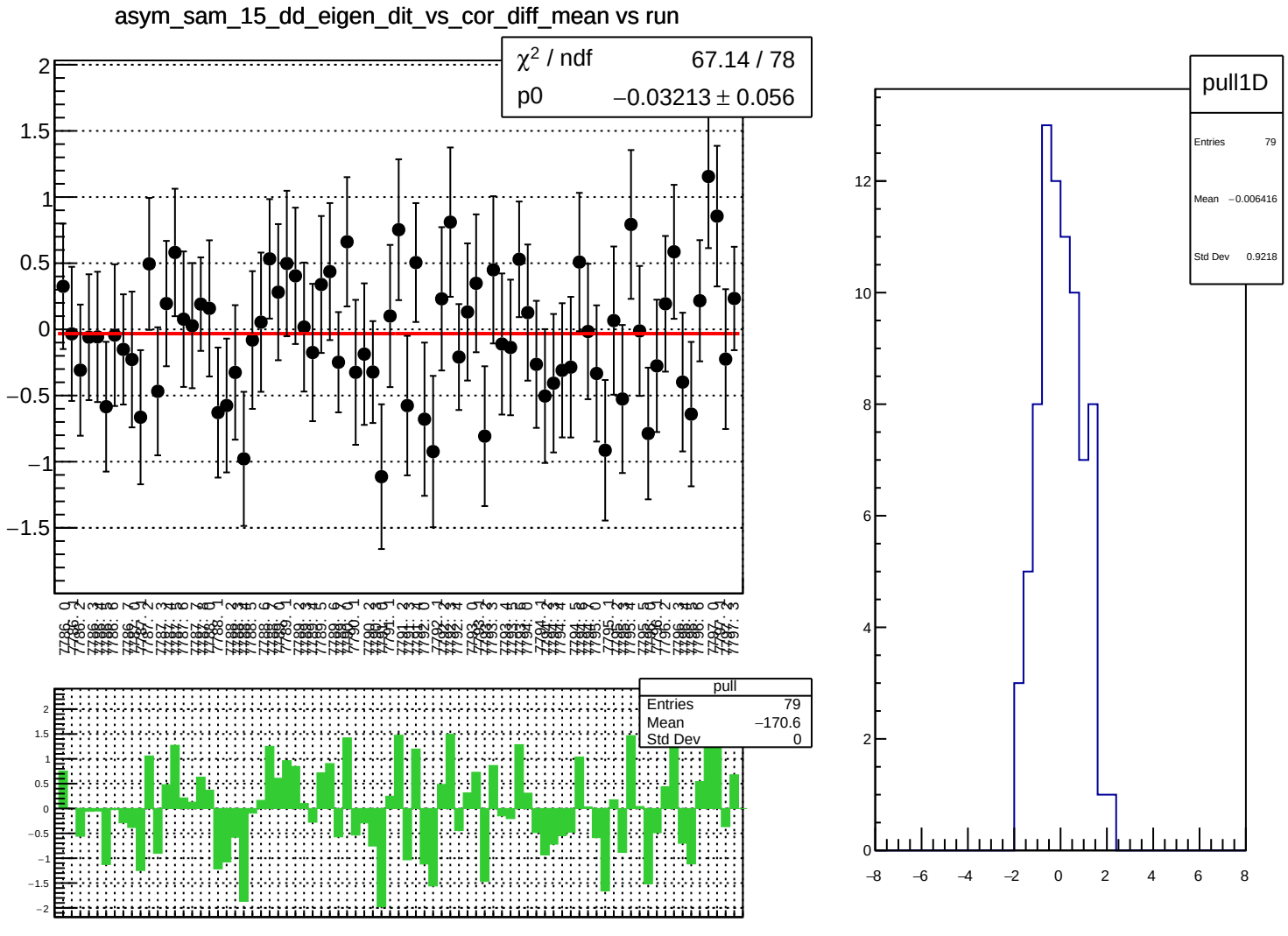

pull1D
Entries 79
Mean −0.006416
Std Dev 0.9218

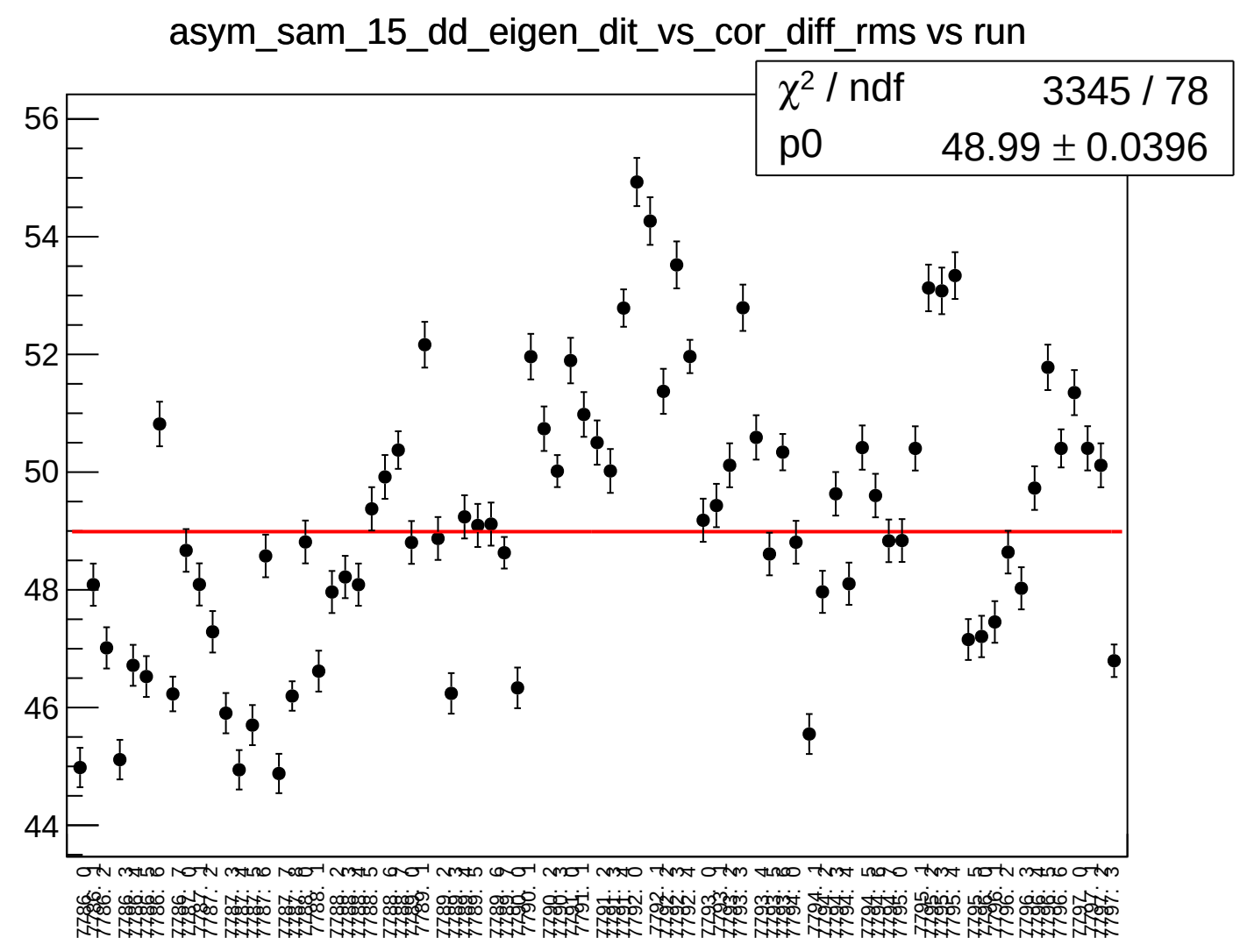

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3345 / 78
p0 48.99 ± 0.0396
56
54
52
50
48
46
44

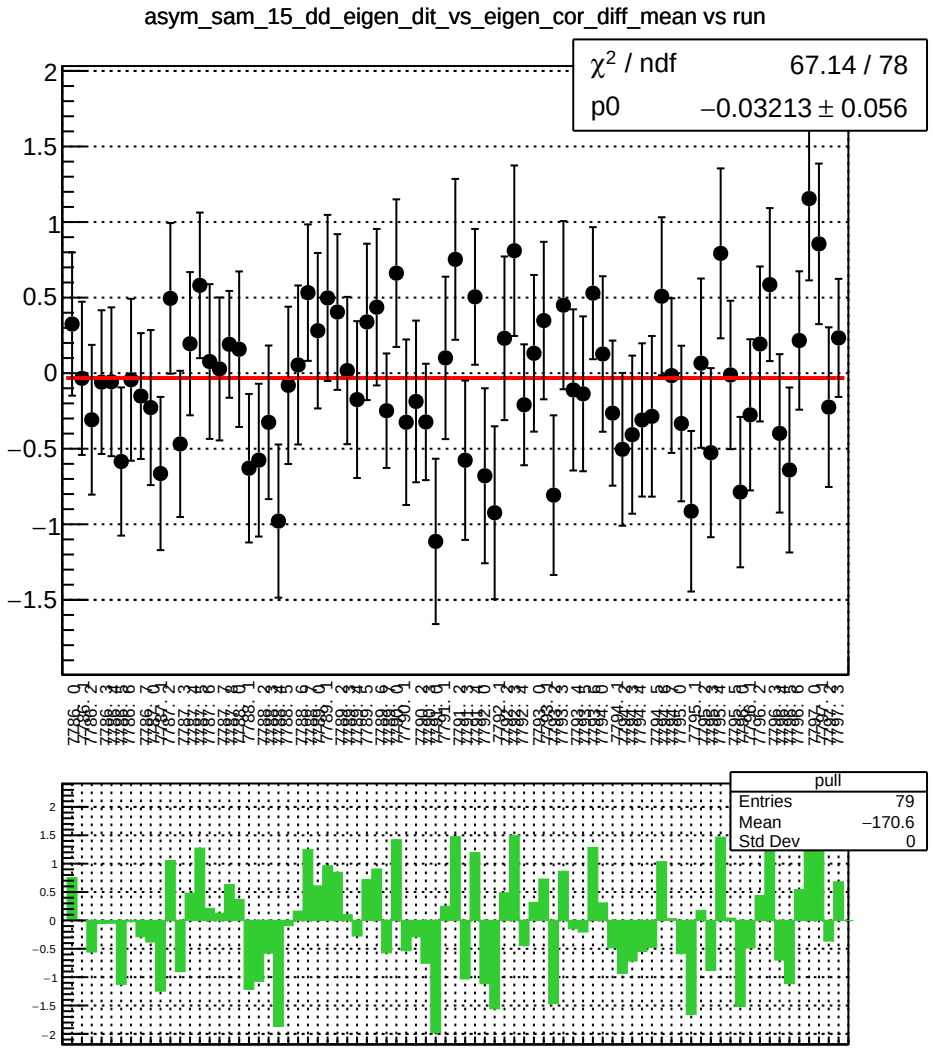

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.98 / 78
p0 1.933e−06 ± 1.163e−06
pull
Entries 79
Mean 1533
Std Dev 0

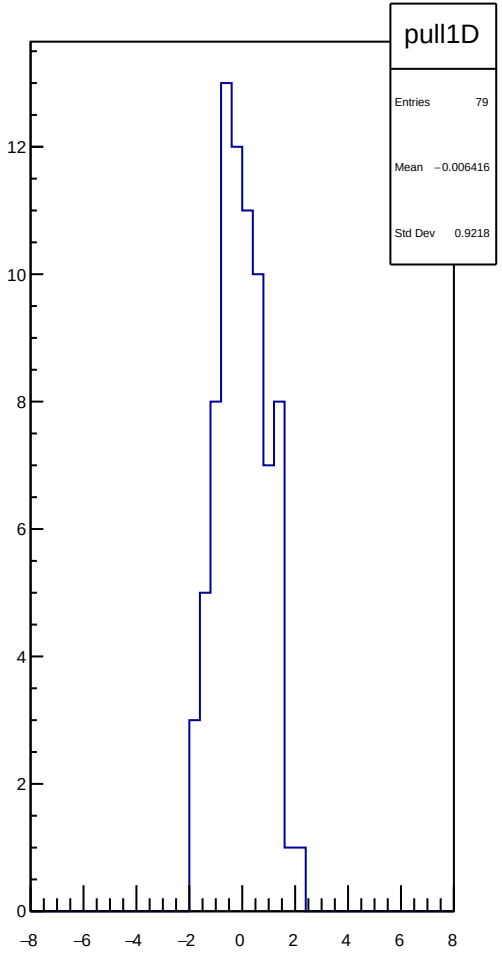

pull1D
Entries 79
Mean −0.002858
Std Dev 0.9479

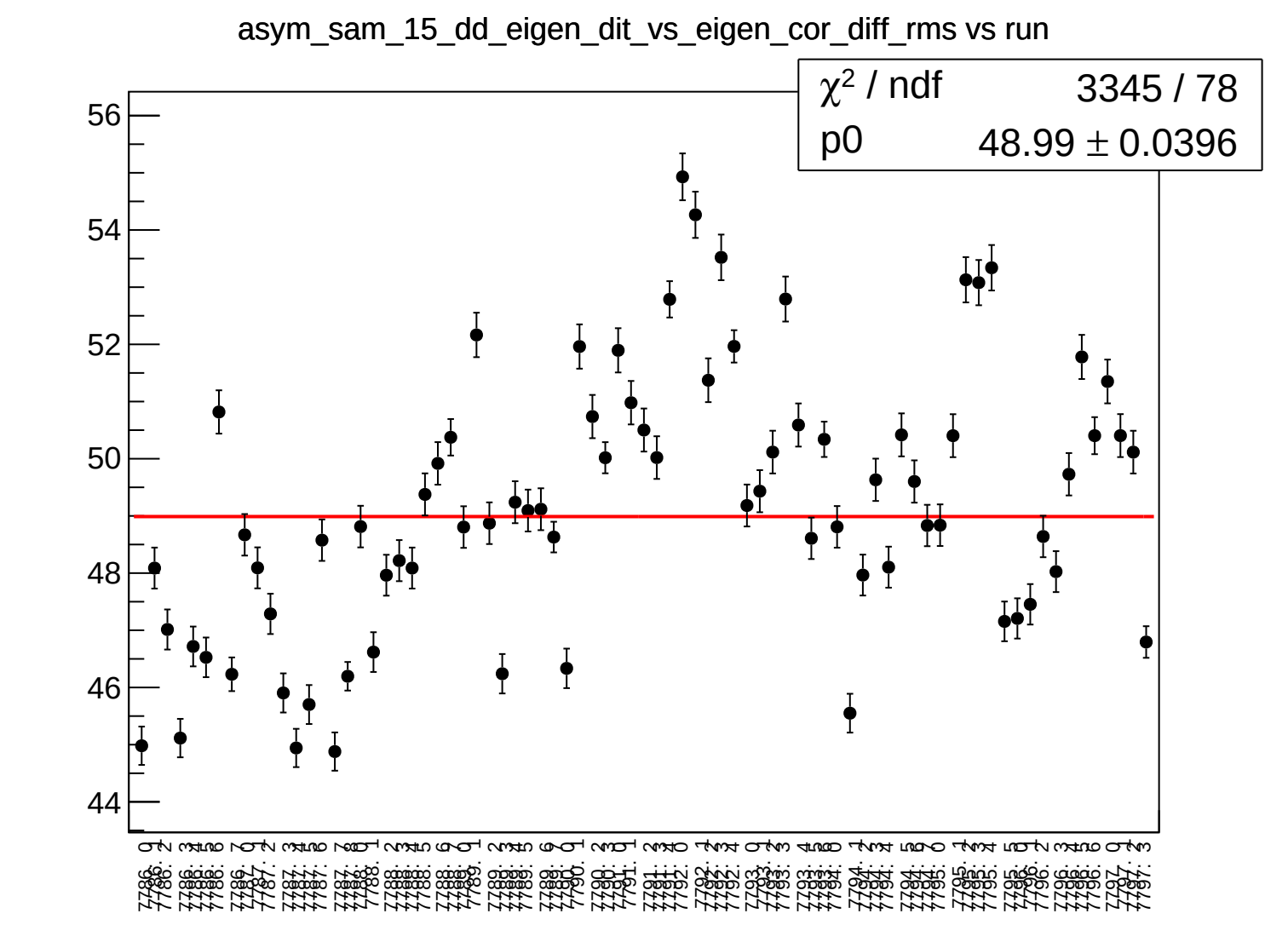

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3303 / 78
p0 0.001017 ± 8.222e−07
0.00115
0.0011
0.00105
0.001
0.00095

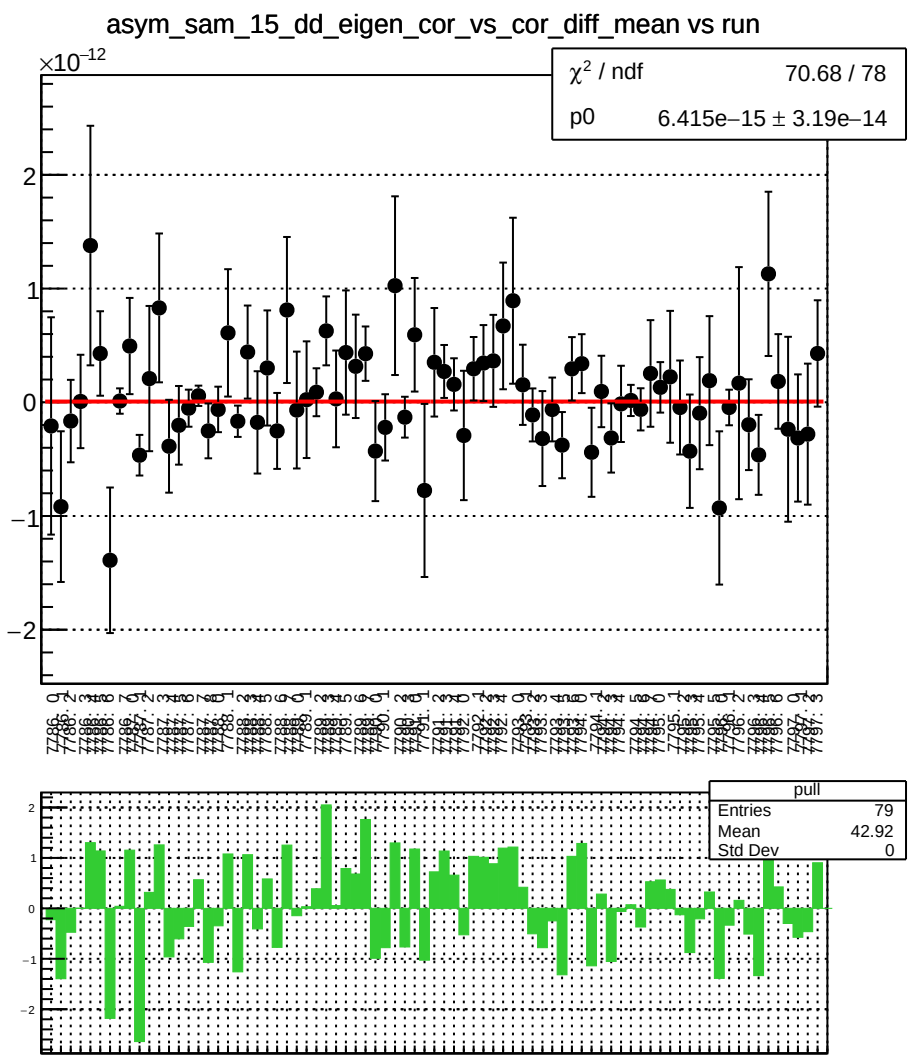

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.14 / 78
p0 −0.03213 ± 0.056
pull
Entries 79
Mean −170.6
Std Dev 0
pull1D
Entries 79
Mean −0.006416
Std Dev 0.9218

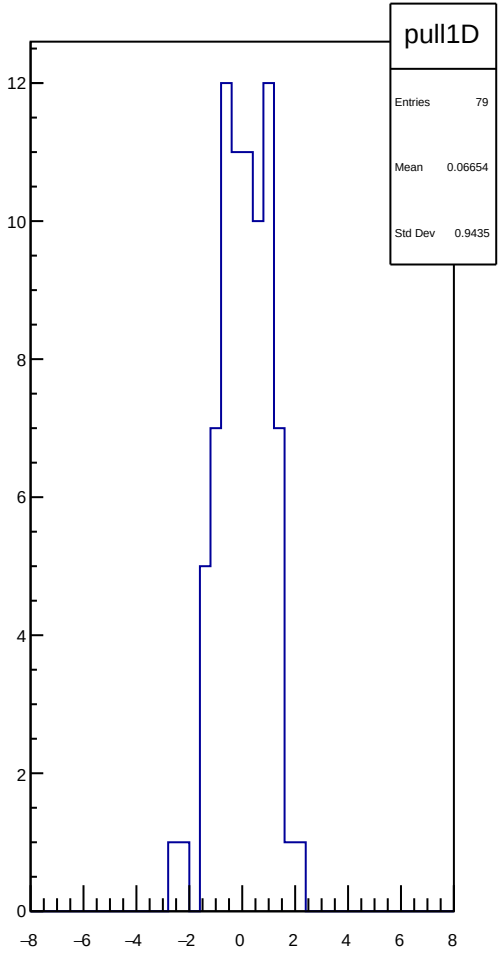

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3345 / 78
p0 48.99 ± 0.0396
56
54
52
50
48
46
44

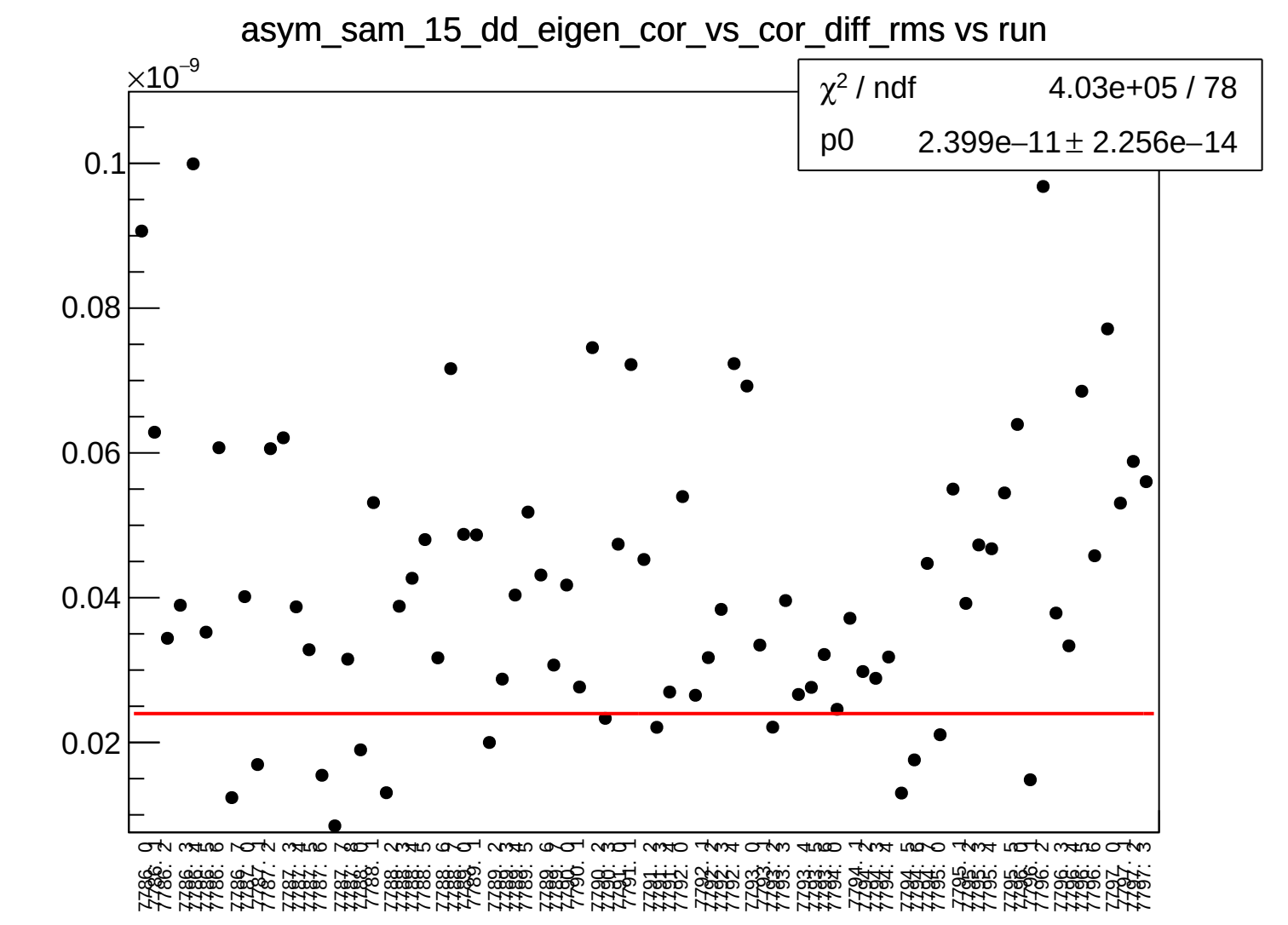

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.14 / 78
p0 −0.03213 ± 0.056
pull
Entries 79
Mean −170.6
Std Dev 0

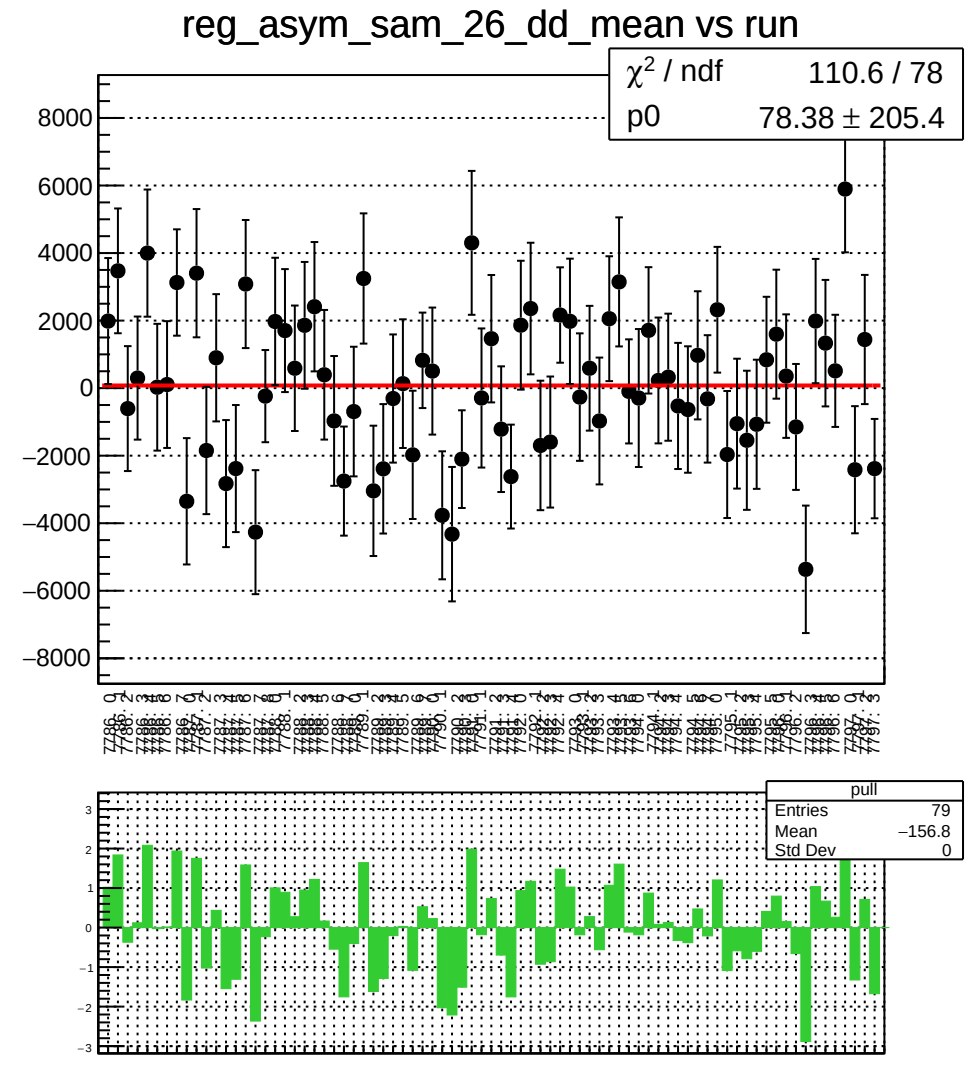

pull1D
Entries 79
Mean −0.006416
Std Dev 0.9218

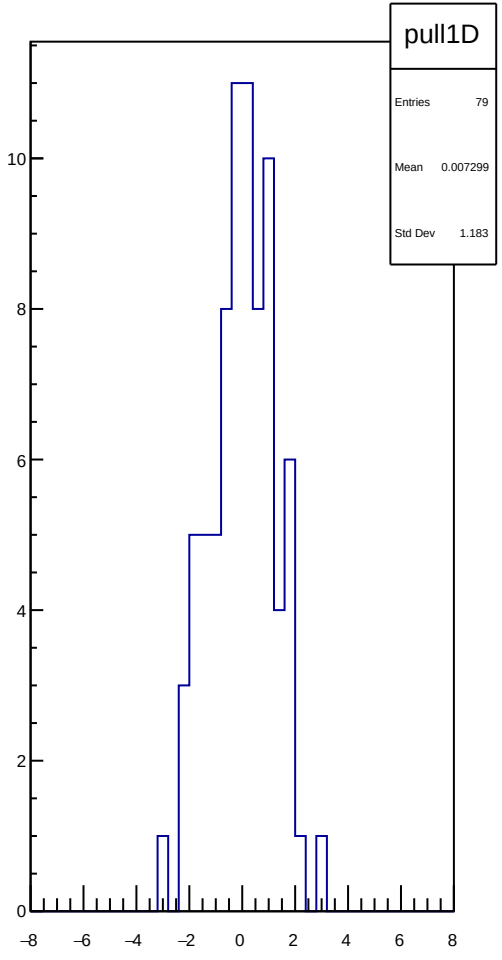

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3345 / 78
p0 48.99 ± 0.0396
56
54
52
50
48
46
44

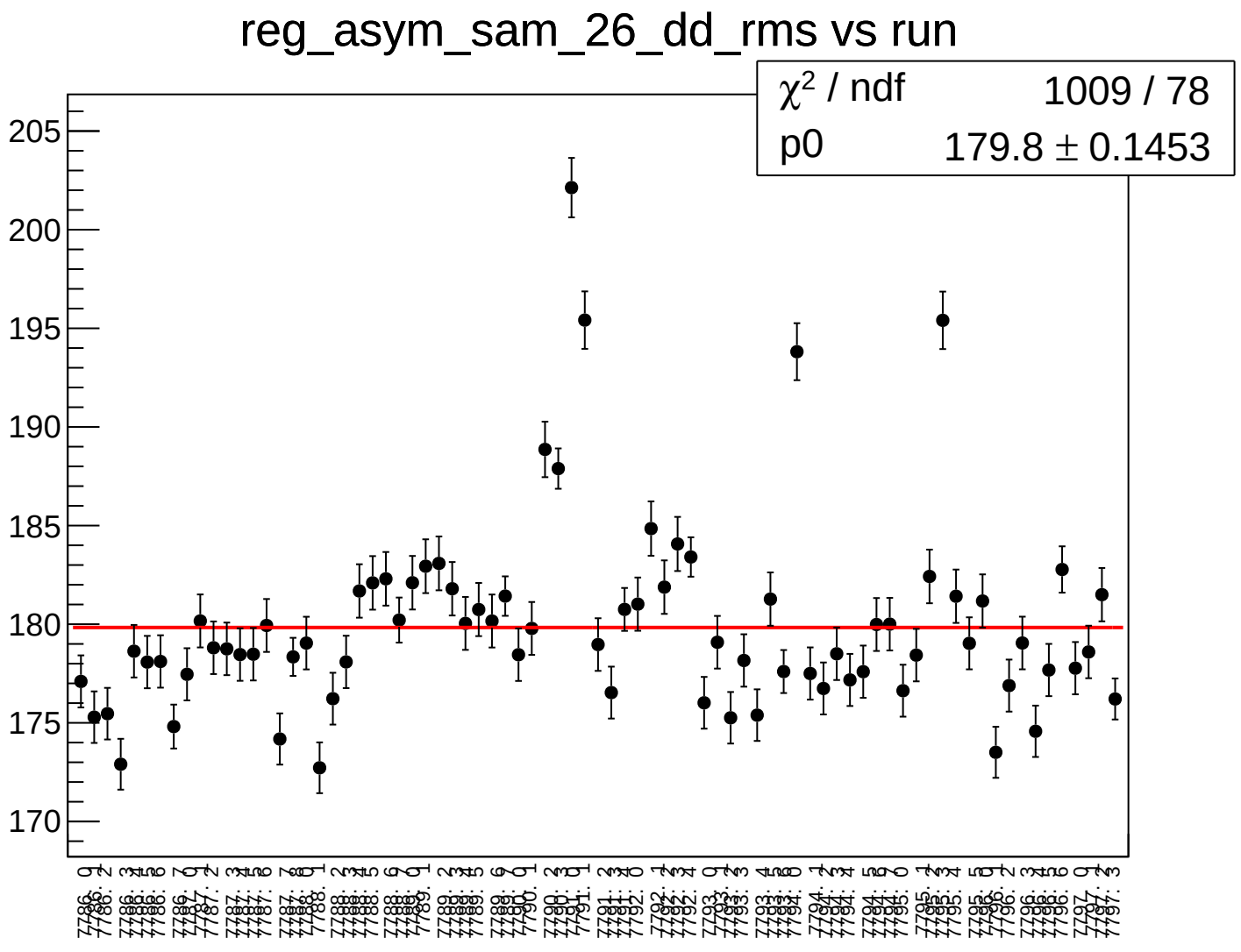

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.68 / 78
p0 6.415e−15 ± 3.19e−14
pull
Entries 79
Mean 42.92
Std Dev 0

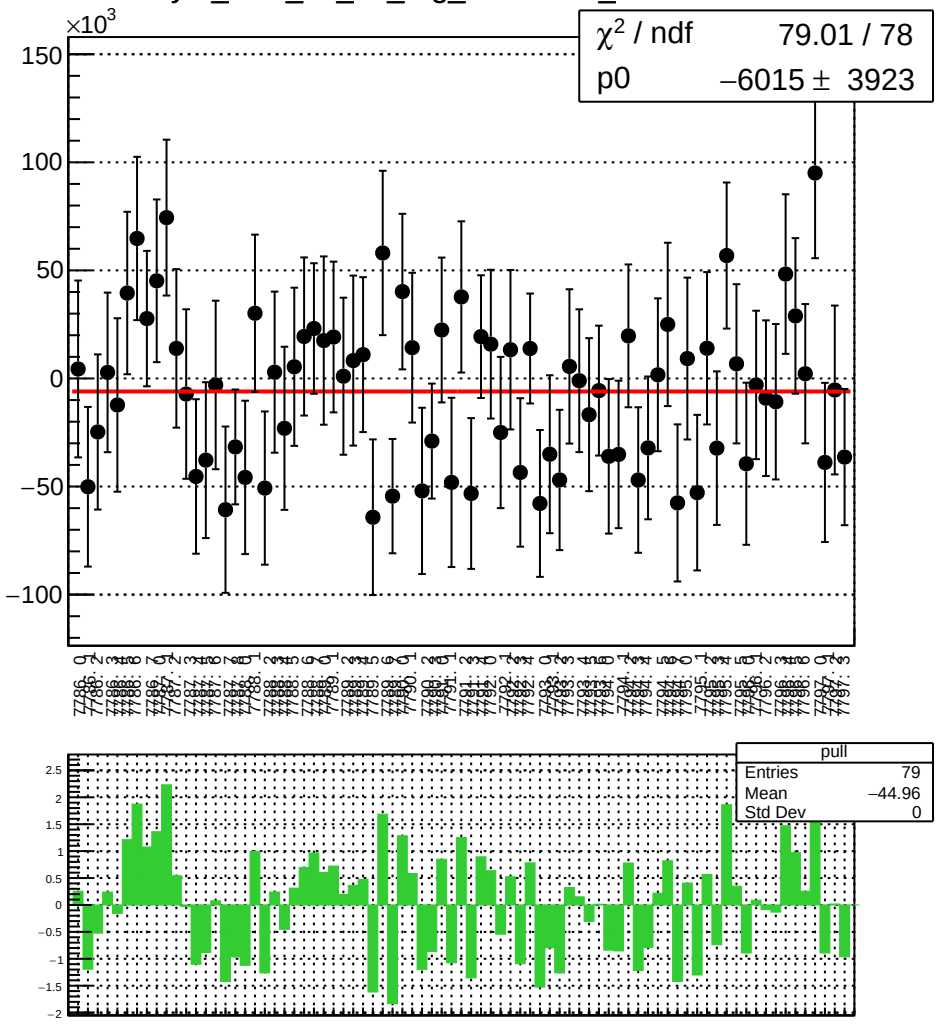

pull1D
Entries 79
Mean 0.06654
Std Dev 0.9435

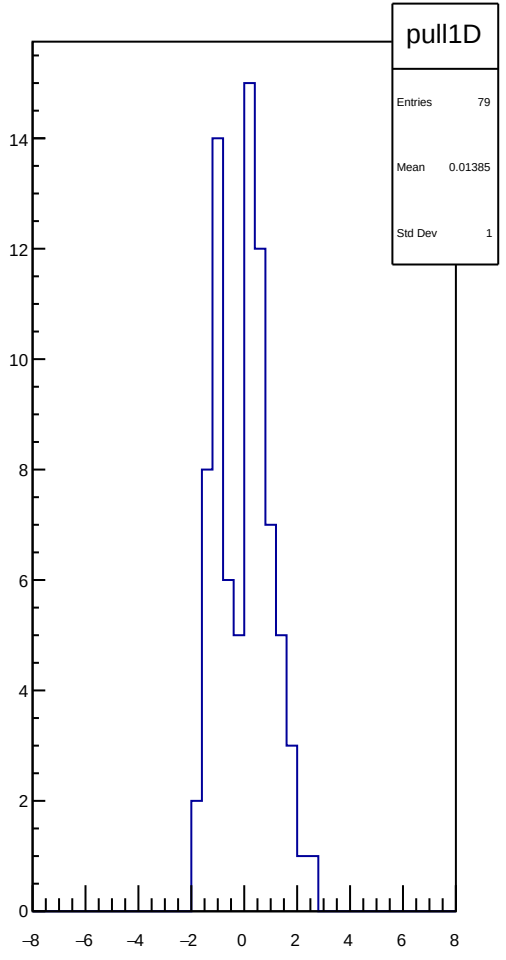

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.03e+05 / 78
p0 2.399e−11 ± 2.256e−14
0.1
0.08
0.06
0.04
0.02

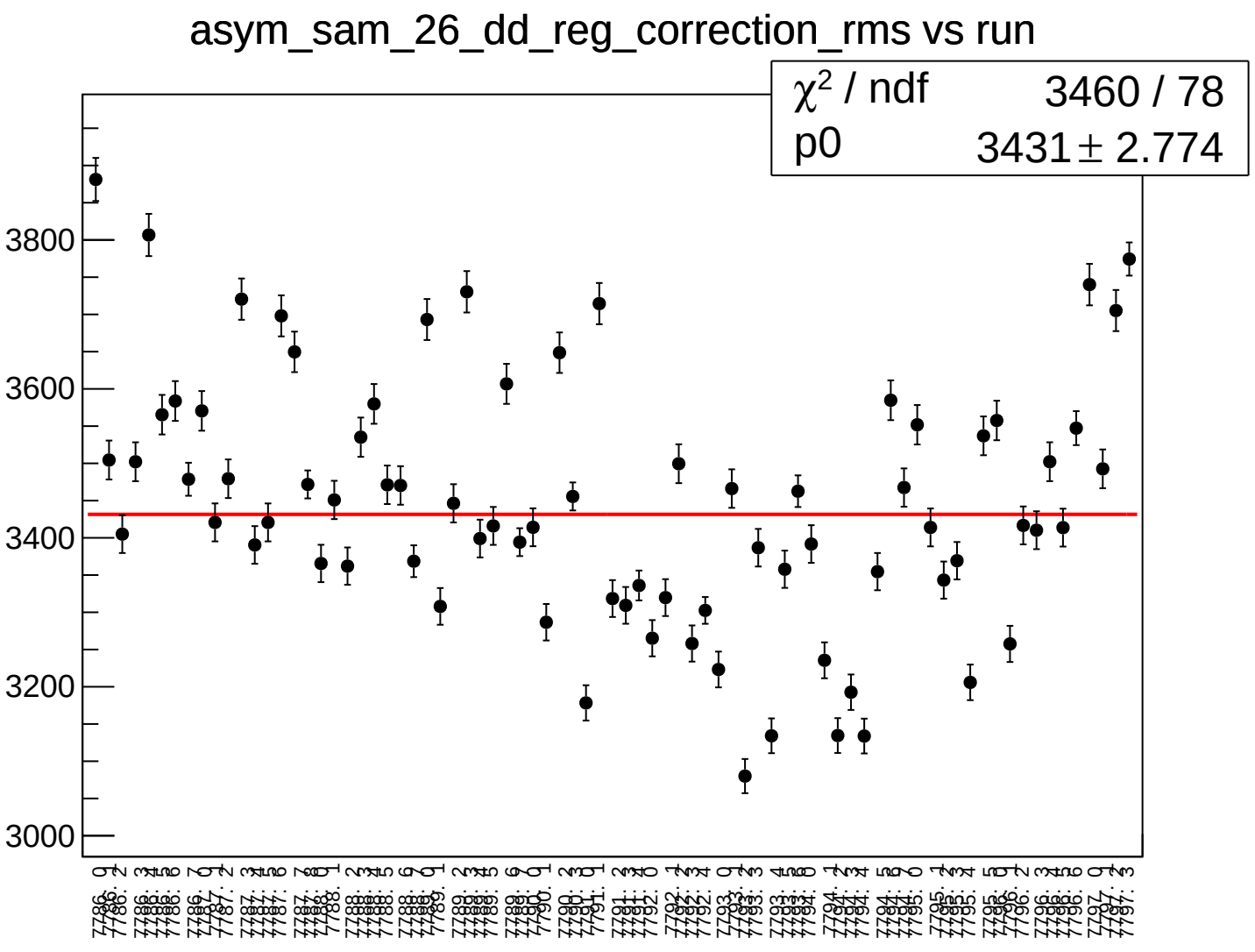

reg_asym_sam_26_dd_mean vs run
χ² / ndf 110.6 / 78
p0 78.38 ± 205.4
pull
Entries 79
Mean −156.8
Std Dev 0

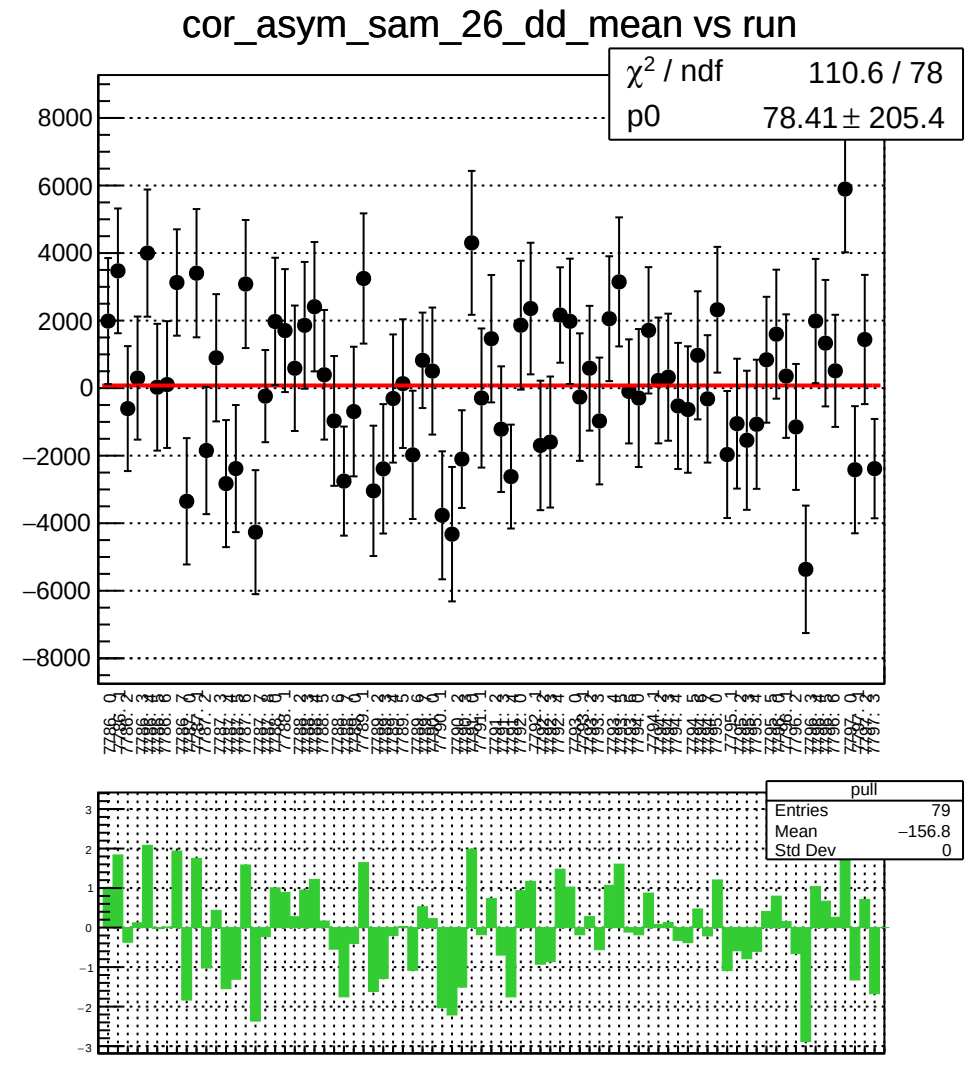

pull1D
Entries 79
Mean 0.007299
Std Dev 1.183

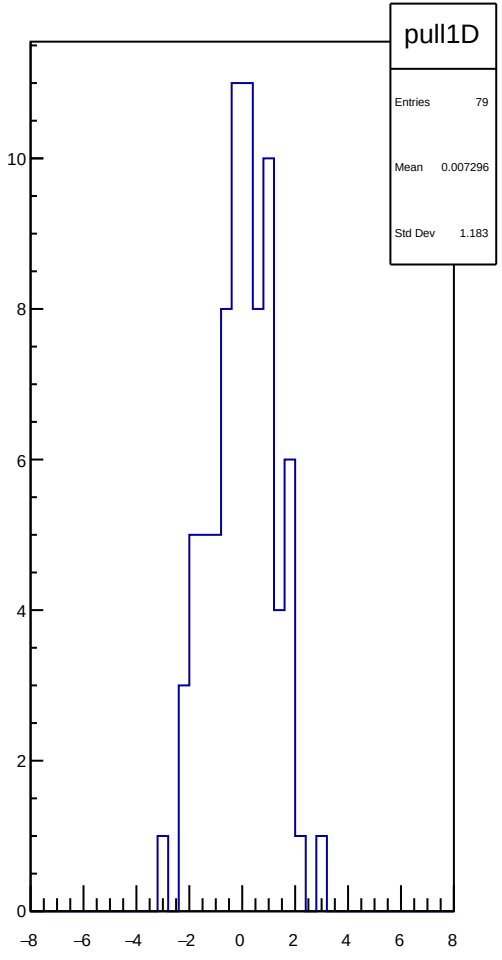

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1009 / 78
p0 179.8 ± 0.1453
205
200
195
190
185
180
175
170

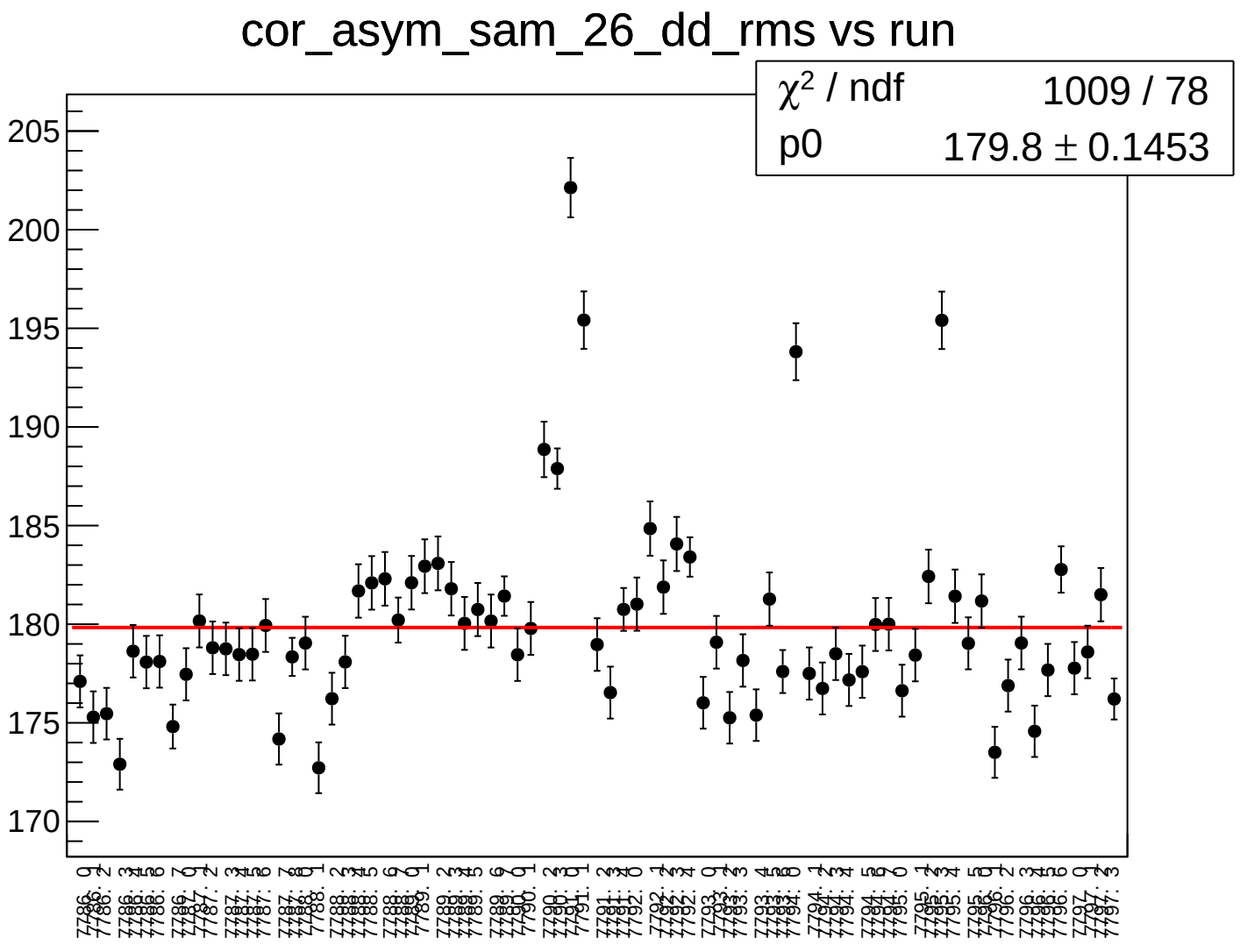

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 79.01 / 78
p0 −6015 ± 3923
150
100
50
0
−50
−100
pull
Entries 79
Mean −44.96
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

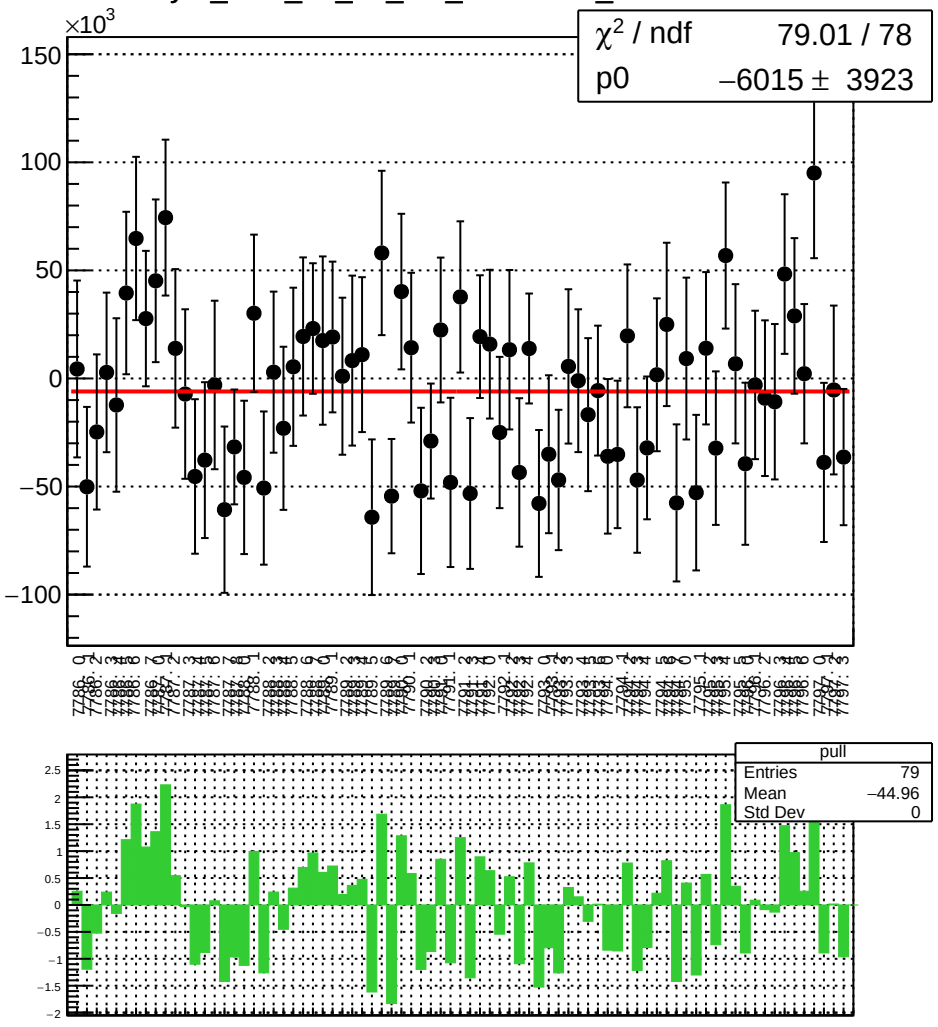

pull1D
Entries 79
Mean 0.01385
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

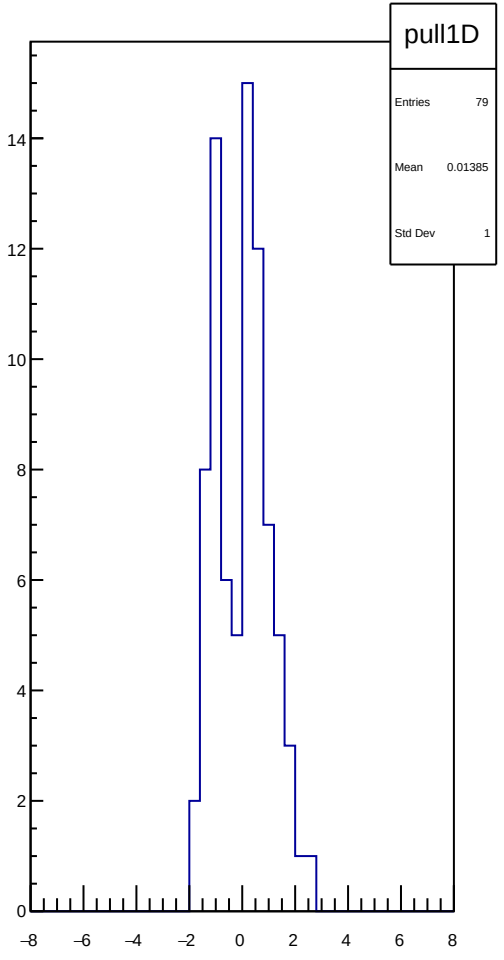

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 3460 / 78
p0 3431 ± 2.774
3800
3600
3400
3200
3000

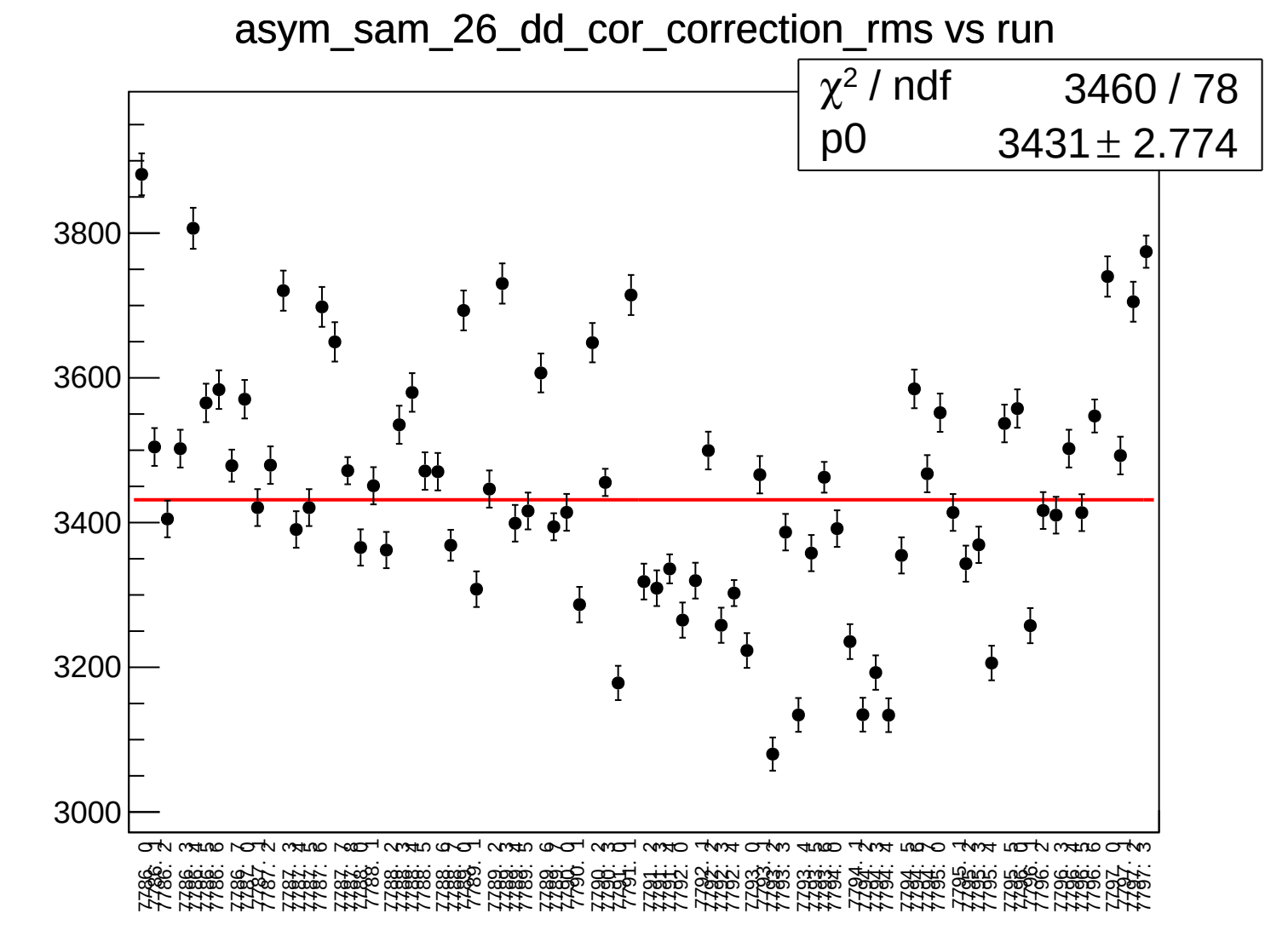

cor_asym_sam_26_dd_mean vs run
χ² / ndf 110.6 / 78
p0 78.41 ± 205.4
pull
Entries 79
Mean −156.8
Std Dev 0

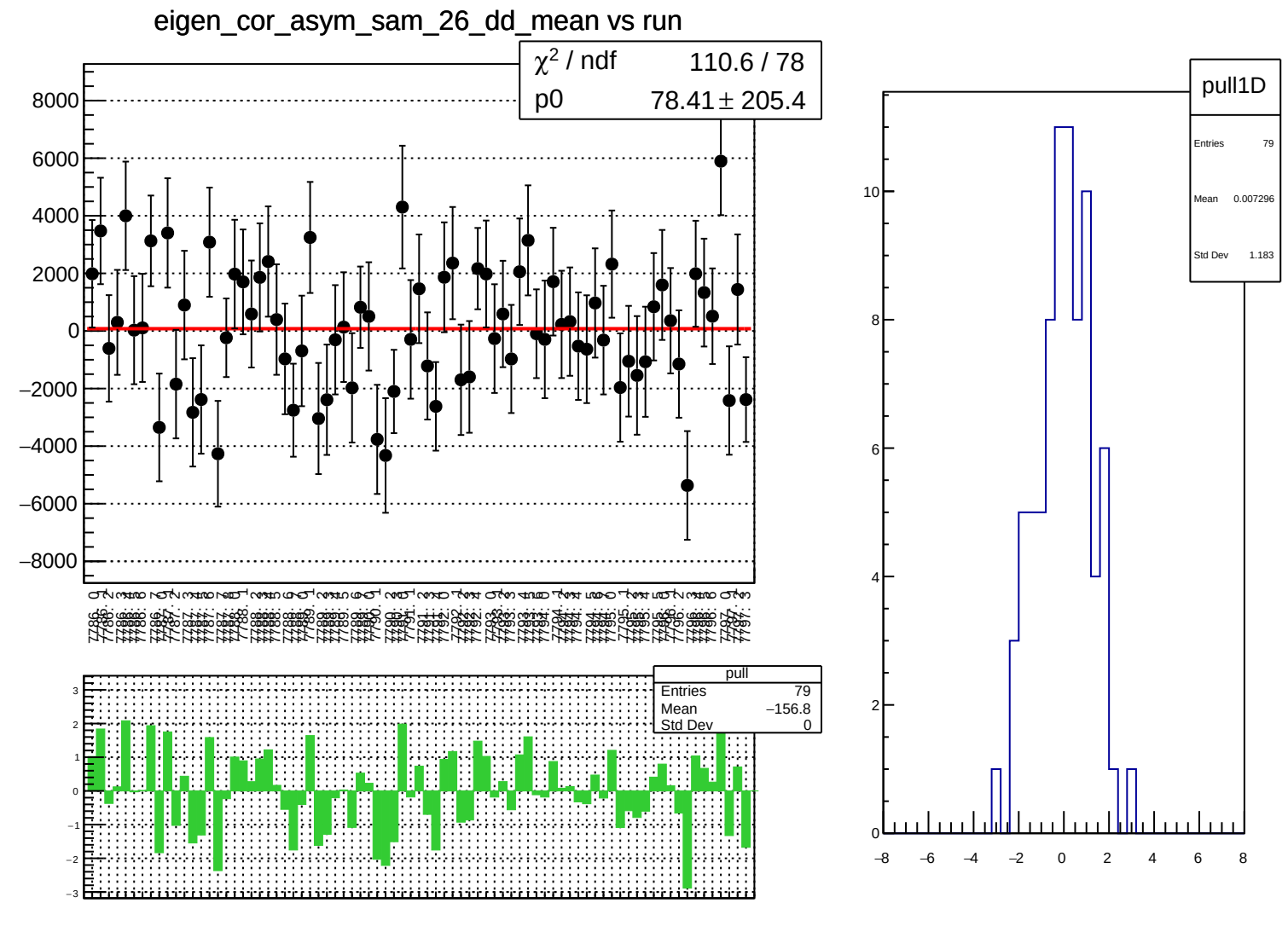

pull1D
Entries 79
Mean 0.007296
Std Dev 1.183

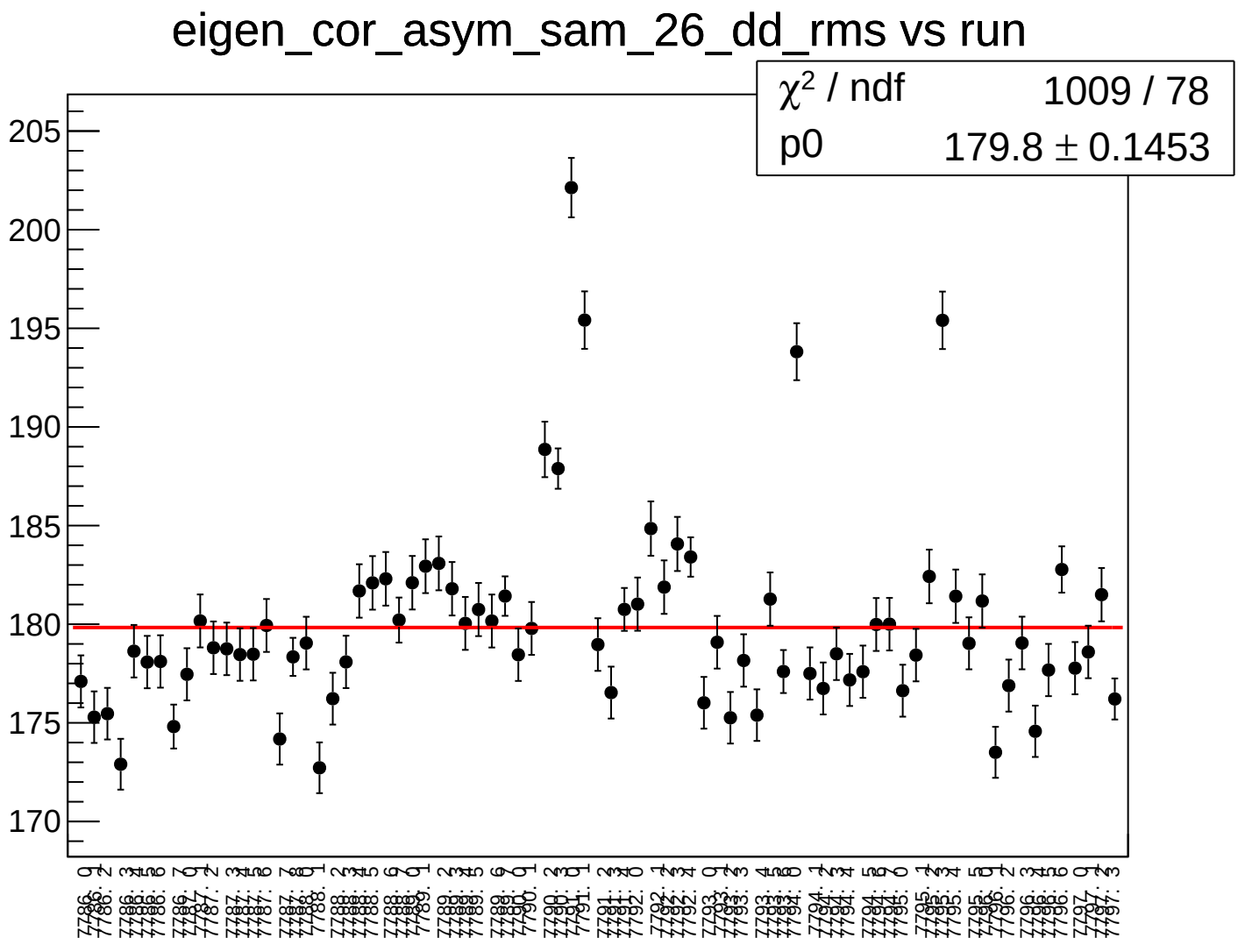

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1009 / 78
p0 179.8 ± 0.1453
205
200
195
190
185
180
175
170

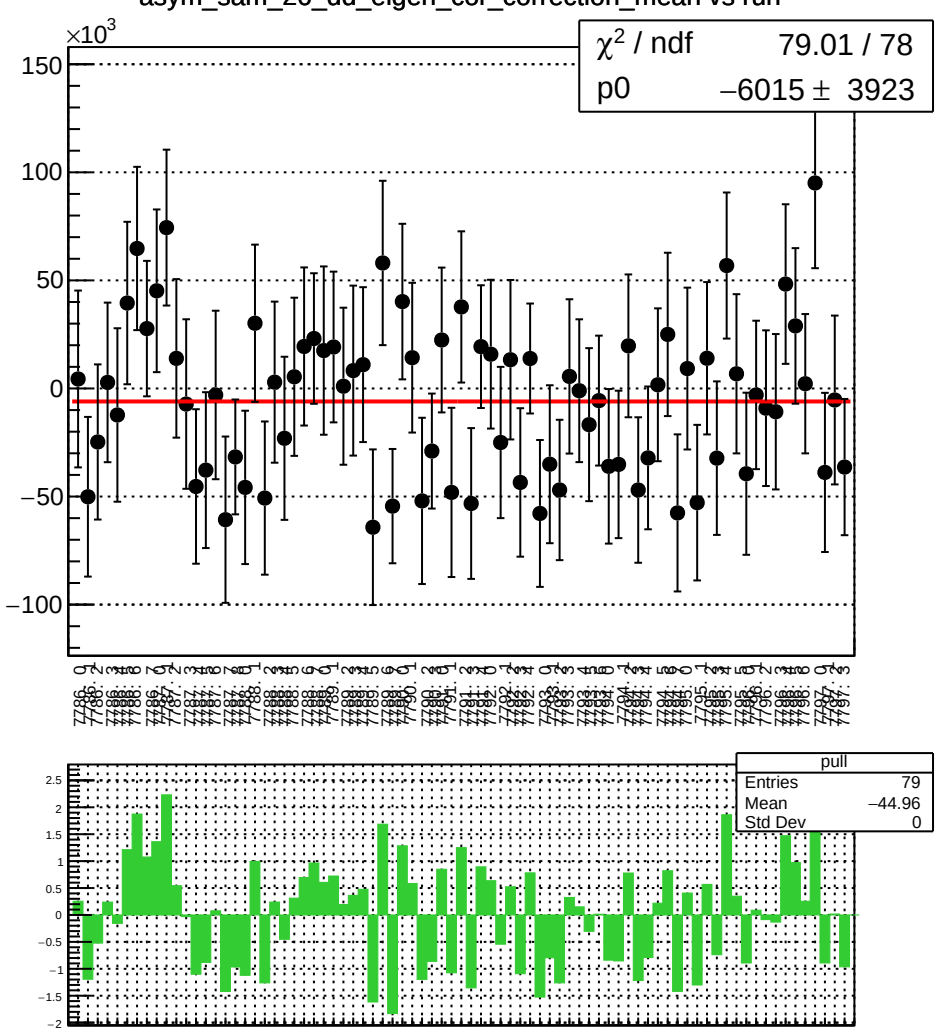

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 79.01 / 78
p0 −6015 ± 3923
150
100
50
0
−50
−100
pull
Entries 79
Mean −44.96
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

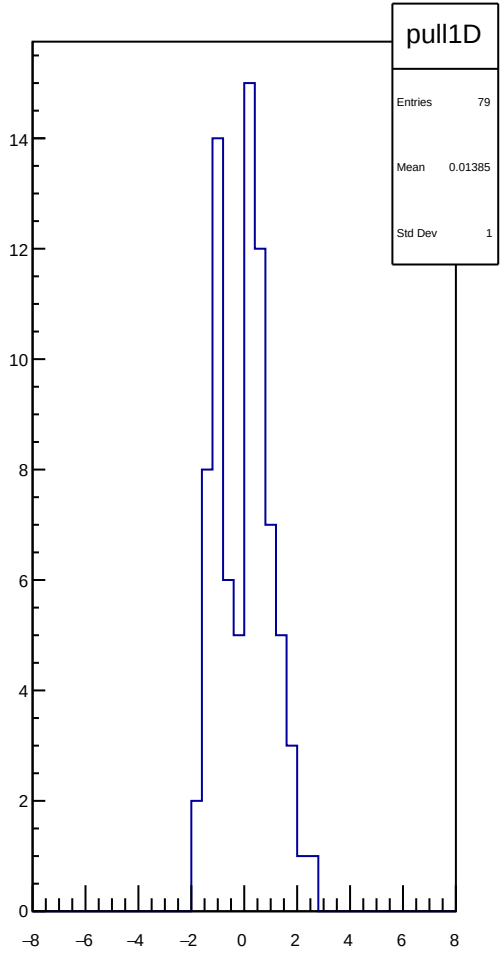

pull1D
Entries 79
Mean 0.01385
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

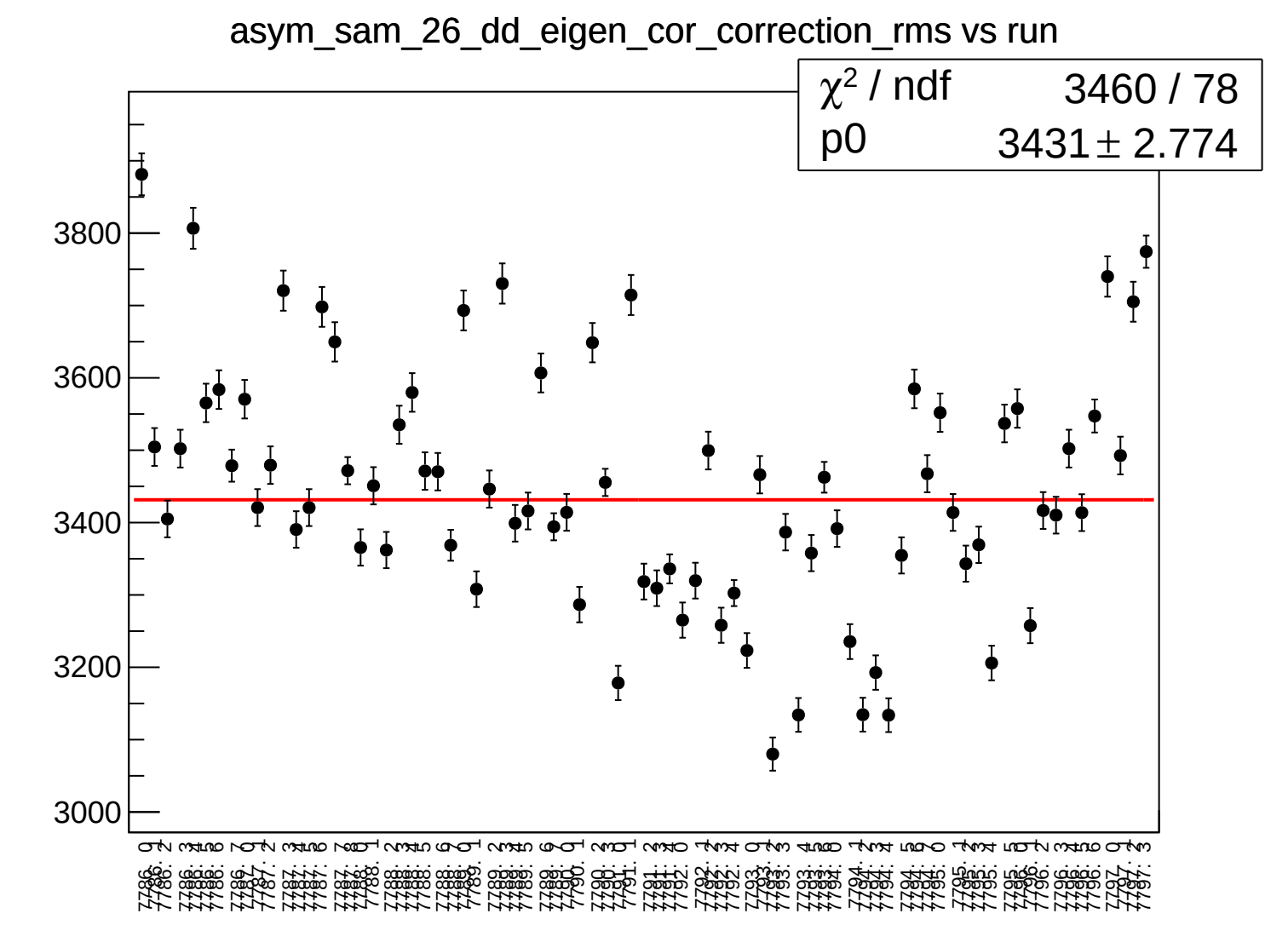

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 3460 / 78
p0 3431 ± 2.774
3800
3600
3400
3200
3000

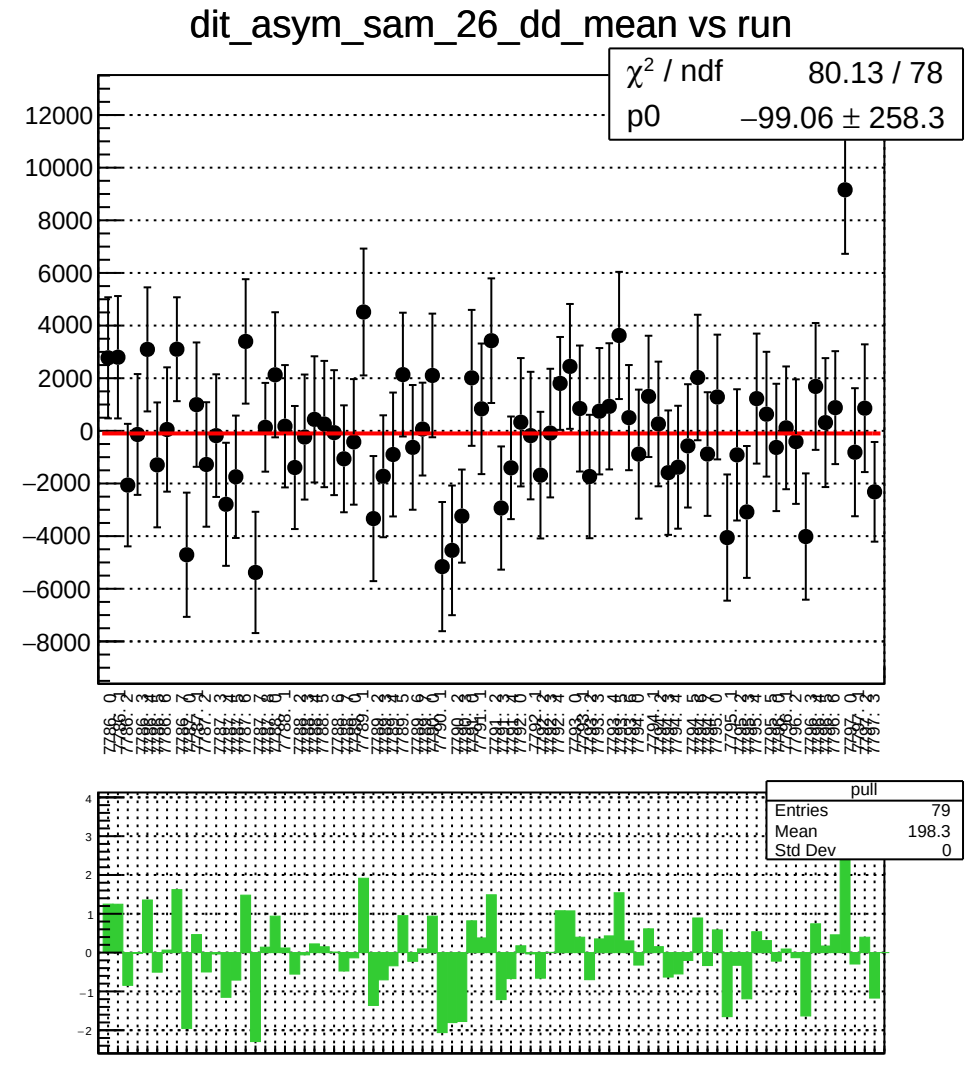

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 110.6 / 78
p0 78.41 ± 205.4
pull
Entries 79
Mean −156.8
Std Dev 0
pull1D
Entries 79
Mean 0.007296
Std Dev 1.183

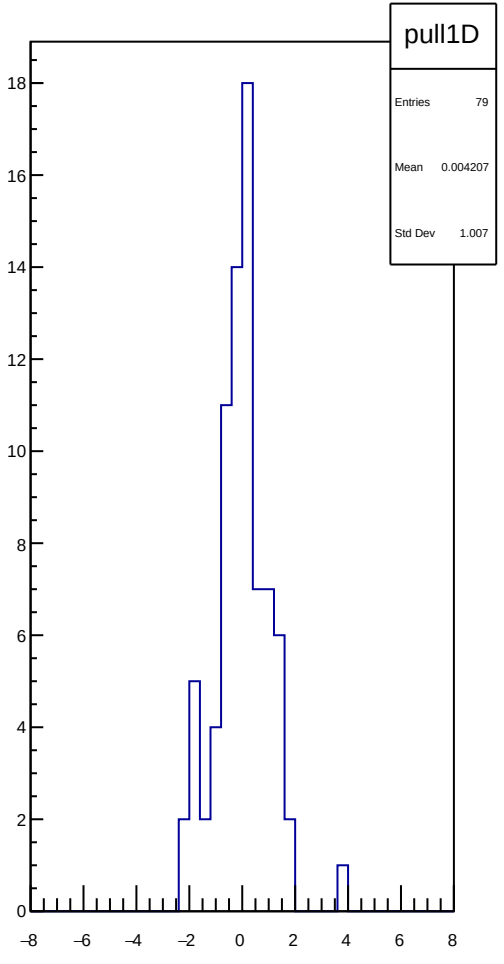

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1009 / 78
p0 179.8 ± 0.1453
205
200
195
190
185
180
175
170

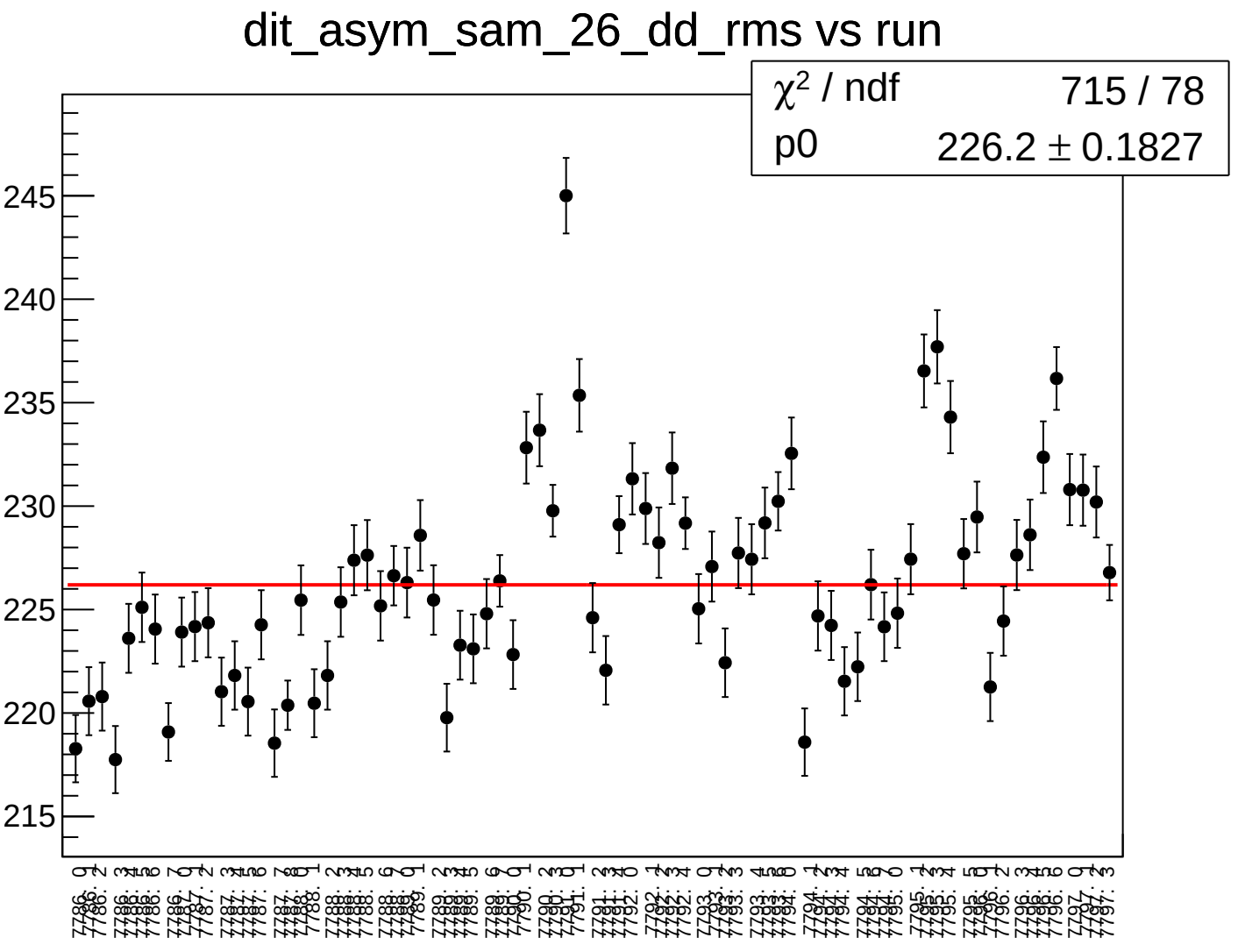

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.01 / 78
p0 −6015 ± 3923
150
100
50
0
−50
−100
pull
Entries 79
Mean −44.96
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

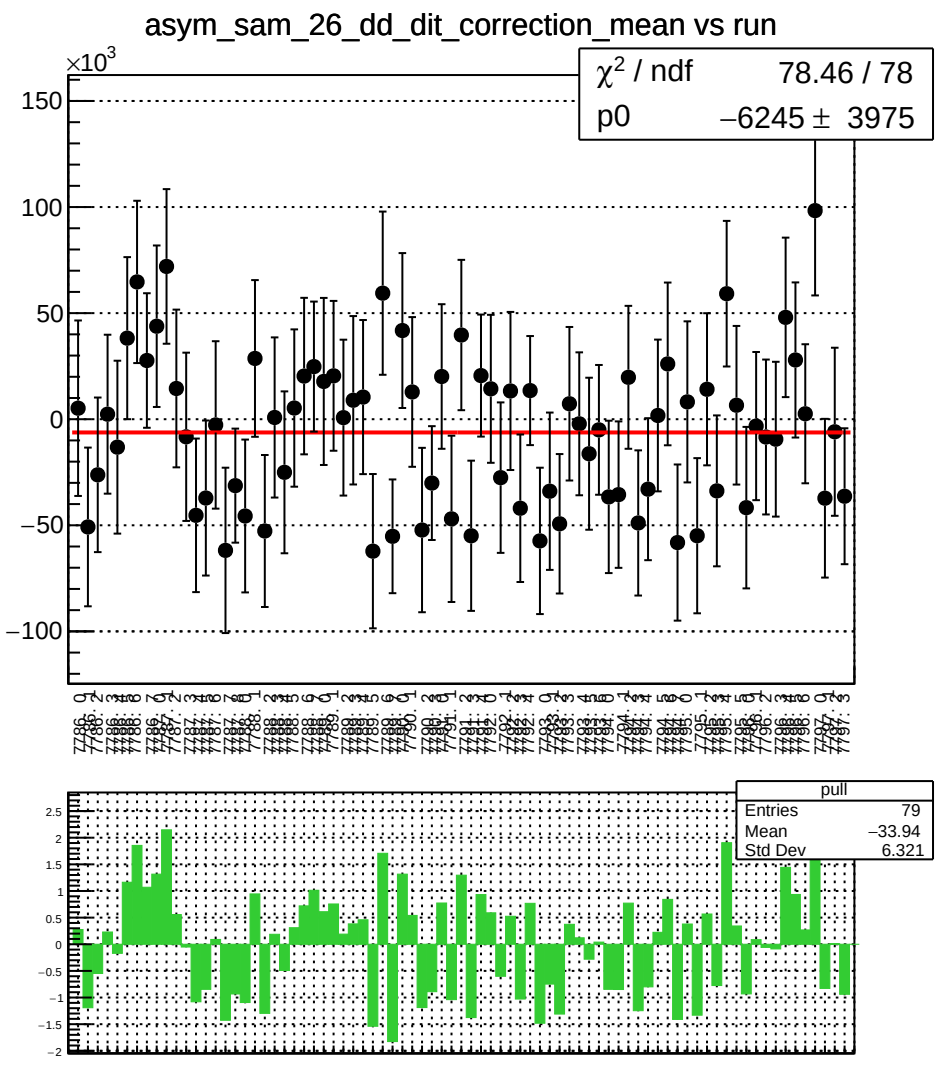

pull1D
Entries 79
Mean 0.01385
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

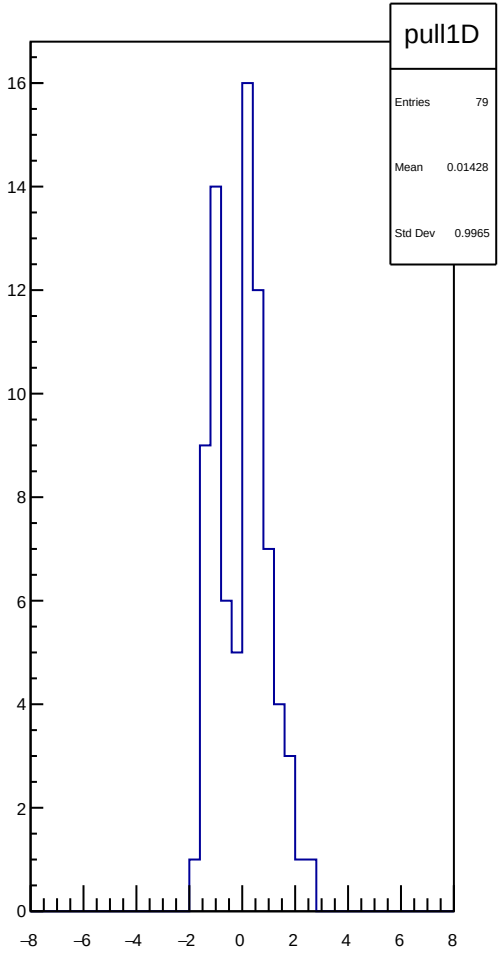

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3460 / 78
p0 3431 ± 2.774
3800
3600
3400
3200
3000

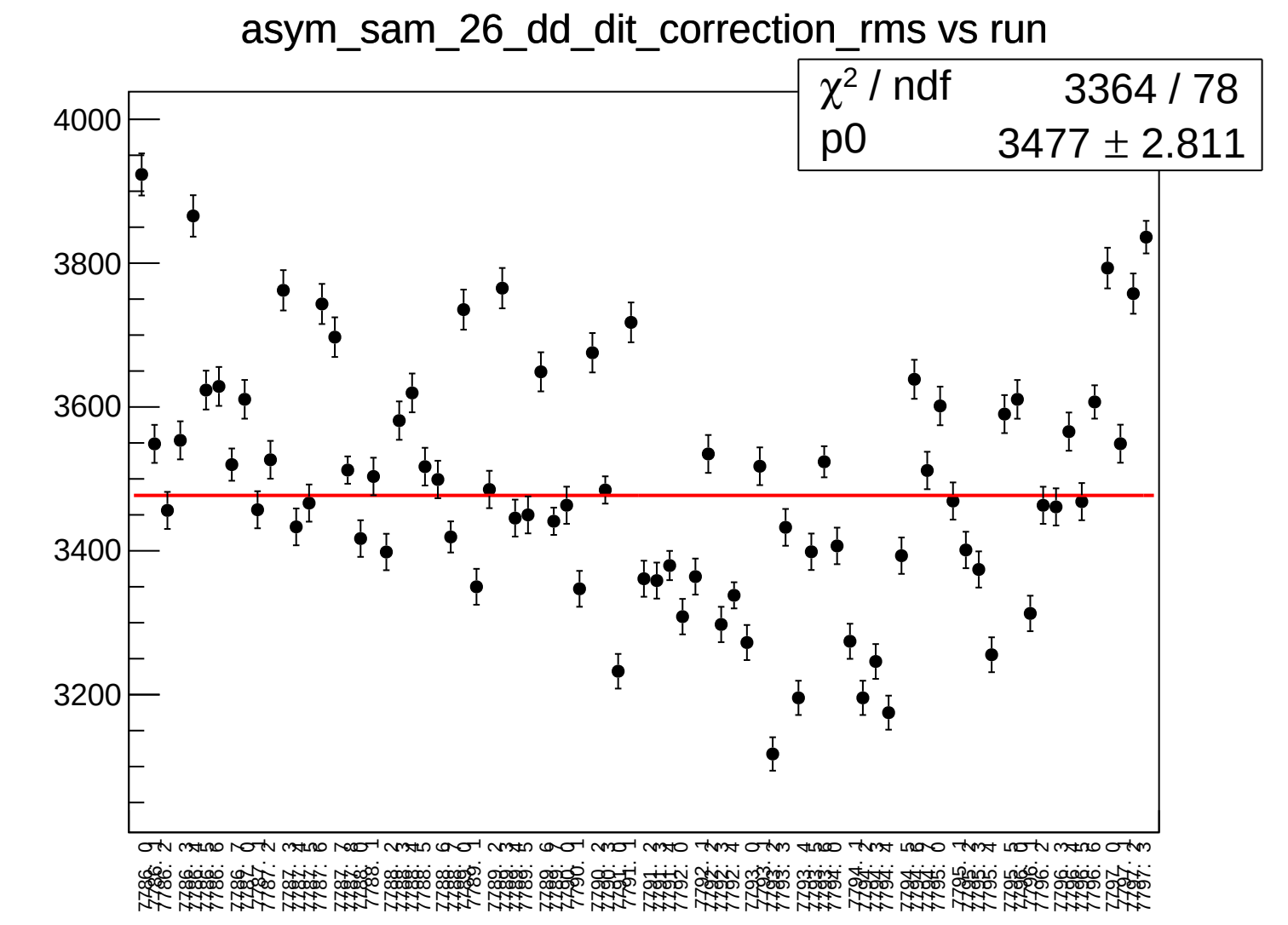

dit_asym_sam_26_dd_mean vs run
χ² / ndf 80.13 / 78
p0 −99.06 ± 258.3
pull
Entries 79
Mean 198.3
Std Dev 0

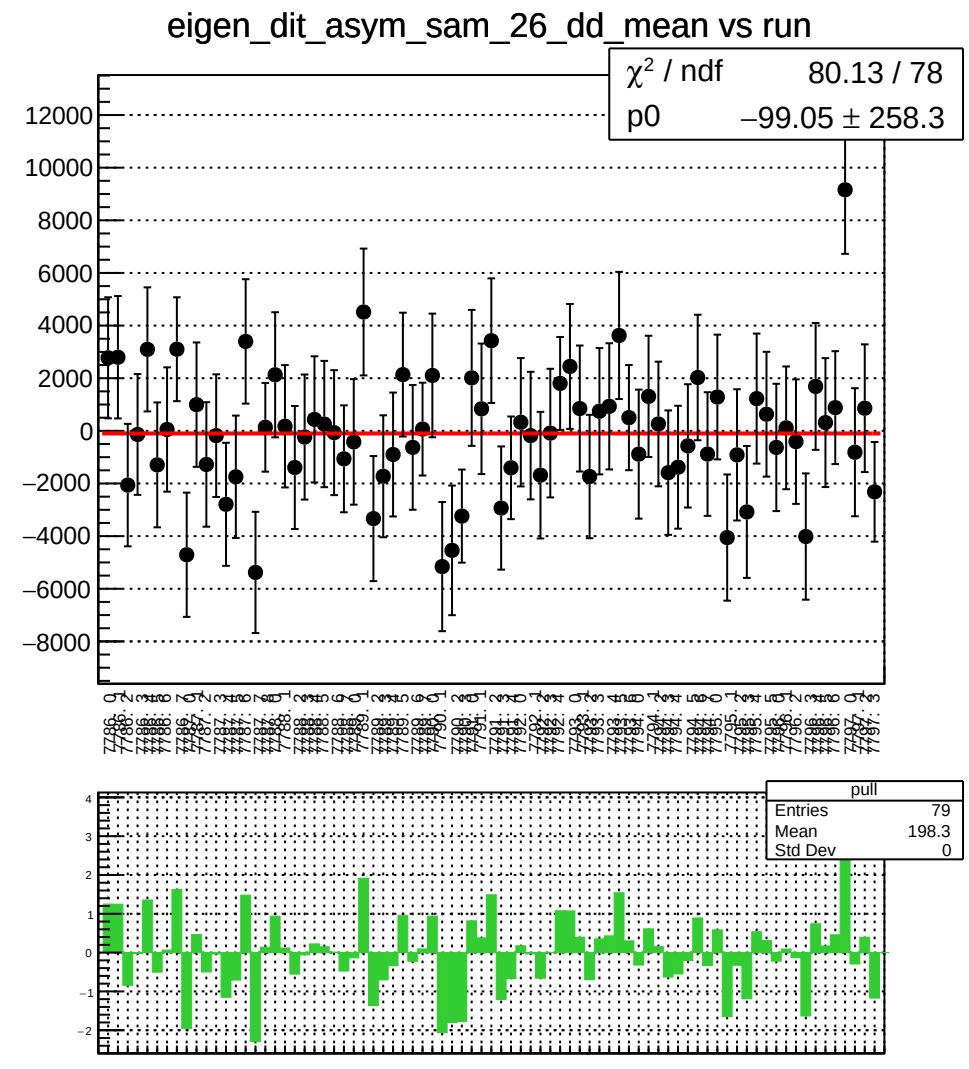

pull1D
Entries 79
Mean 0.004207
Std Dev 1.007

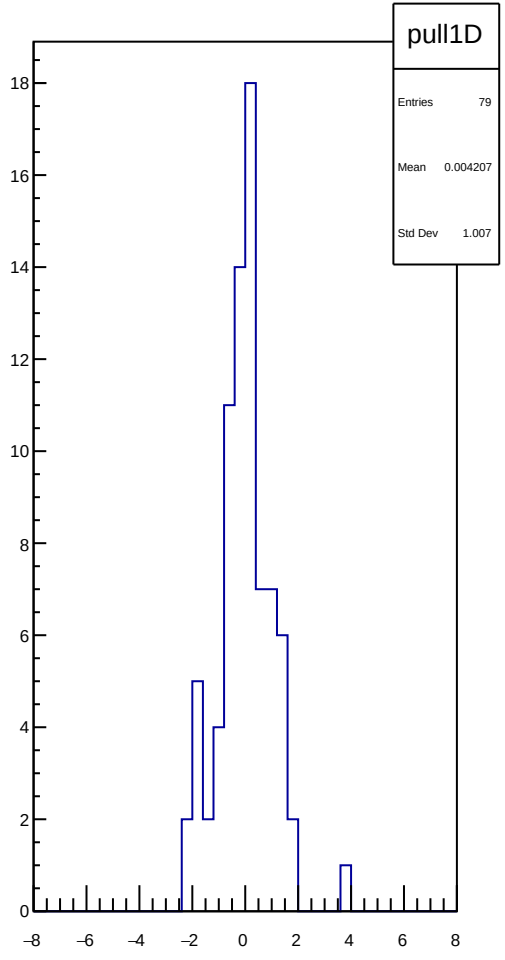

dit_asym_sam_26_dd_rms vs run
χ² / ndf 715 / 78
p0 226.2 ± 0.1827
245
240
235
230
225
220
215

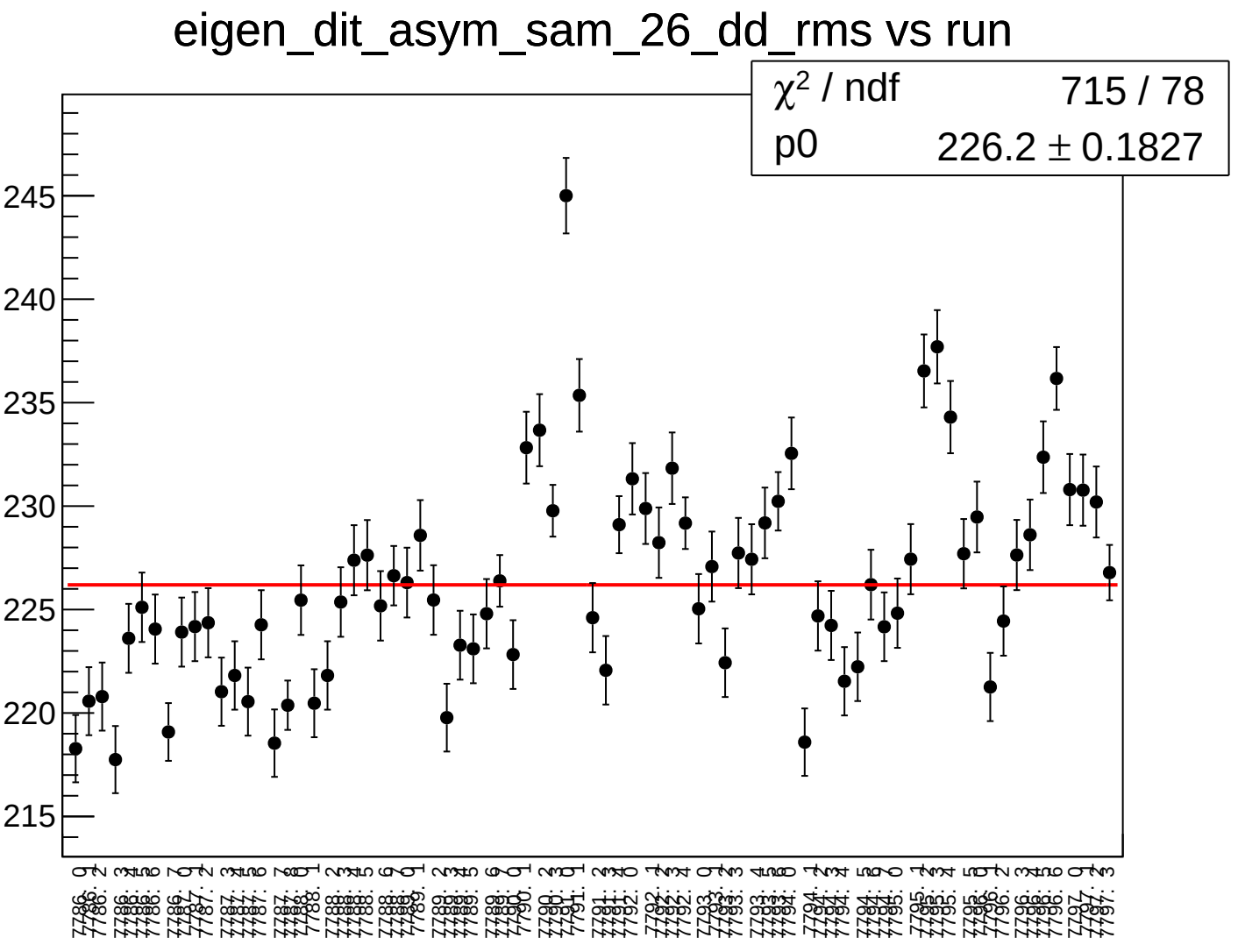

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 78.46 / 78
p0 −6245 ± 3975
150
100
50
0
−50
−100
pull
Entries 79
Mean −33.94
Std Dev 6.321
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

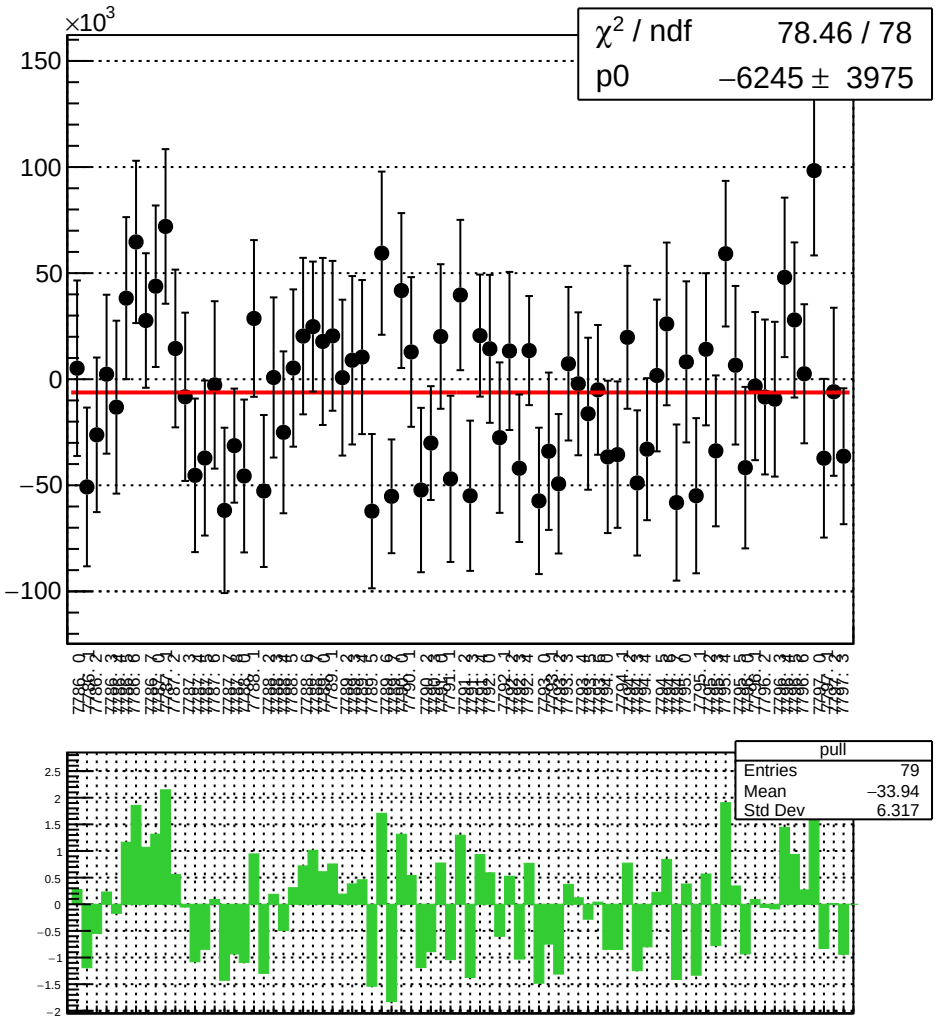

pull1D
Entries 79
Mean 0.01428
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

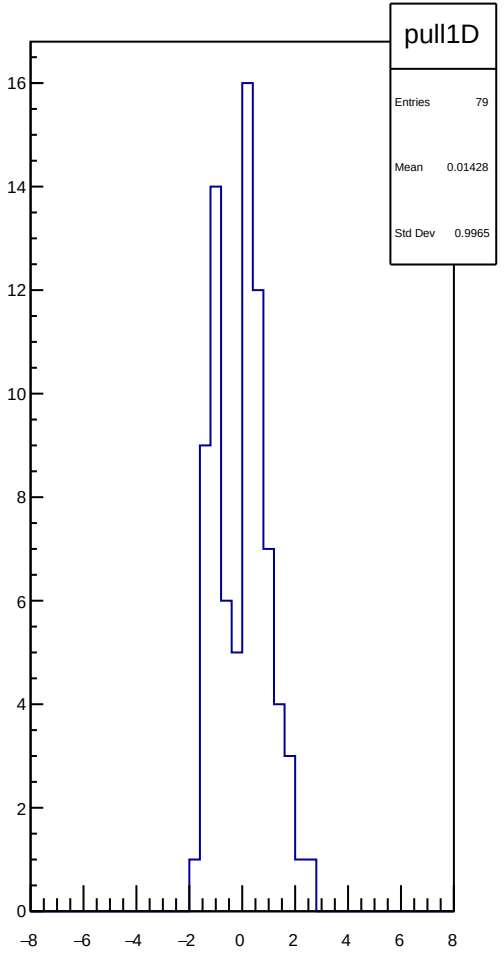

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 3364 / 78
p0 3477 ± 2.811
4000
3800
3600
3400
3200

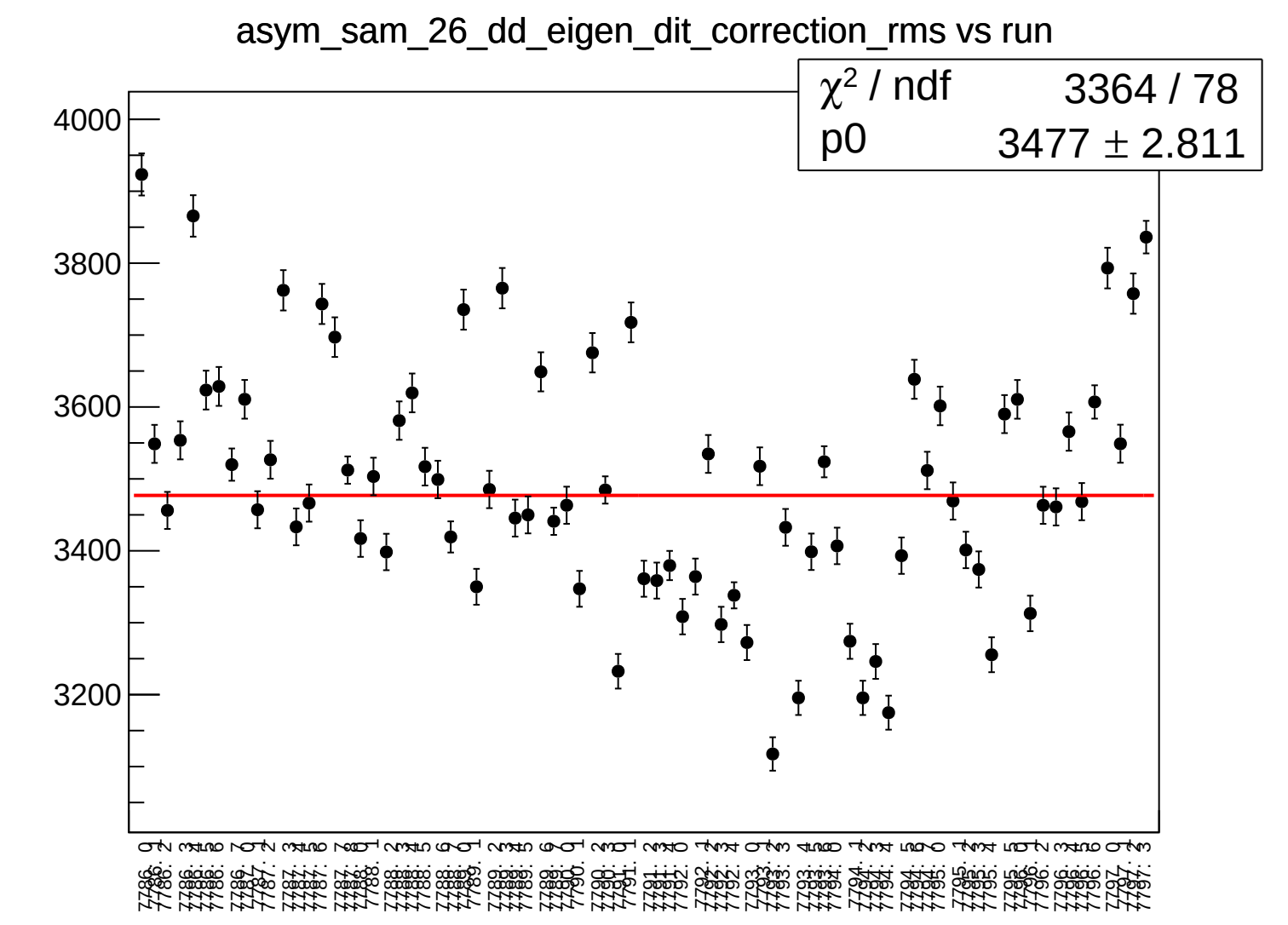

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 80.13 / 78
p0 −99.05 ± 258.3
pull
Entries 79
Mean 198.3
Std Dev 0

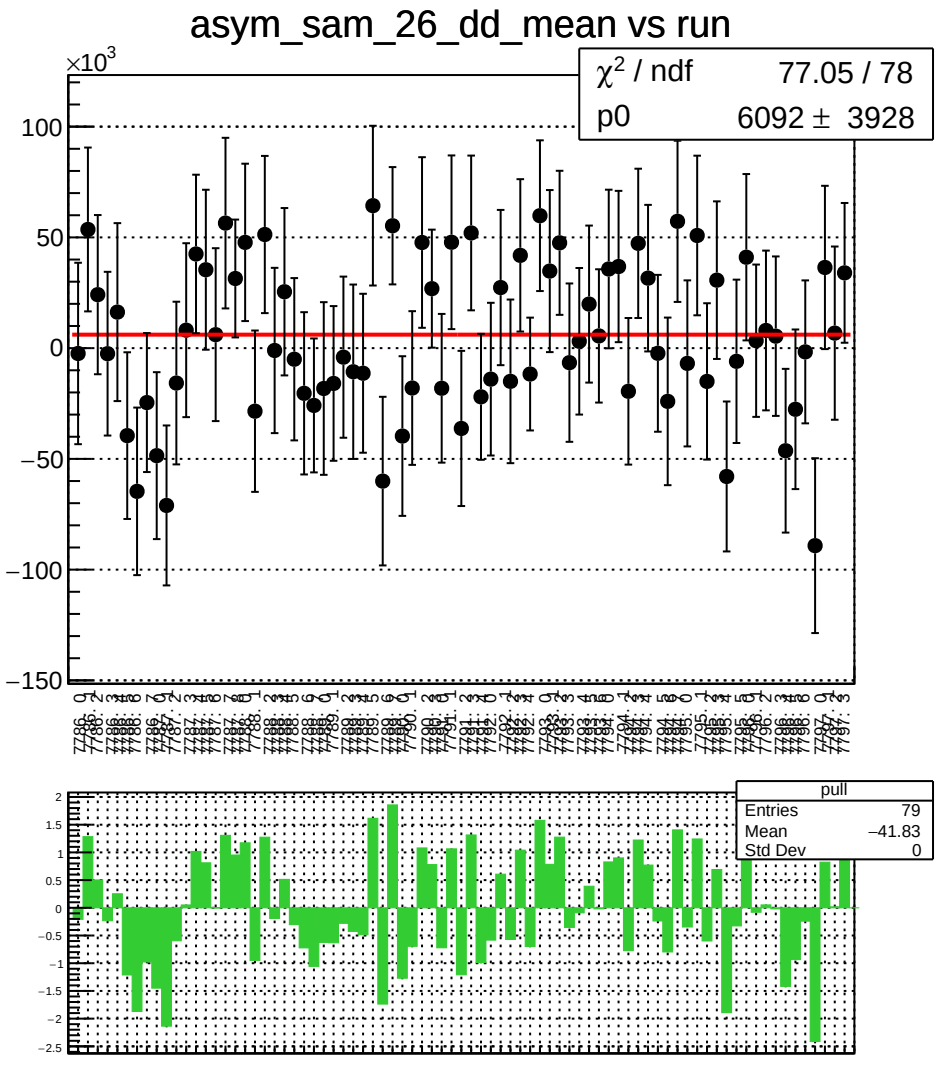

pull1D
Entries 79
Mean 0.004207
Std Dev 1.007

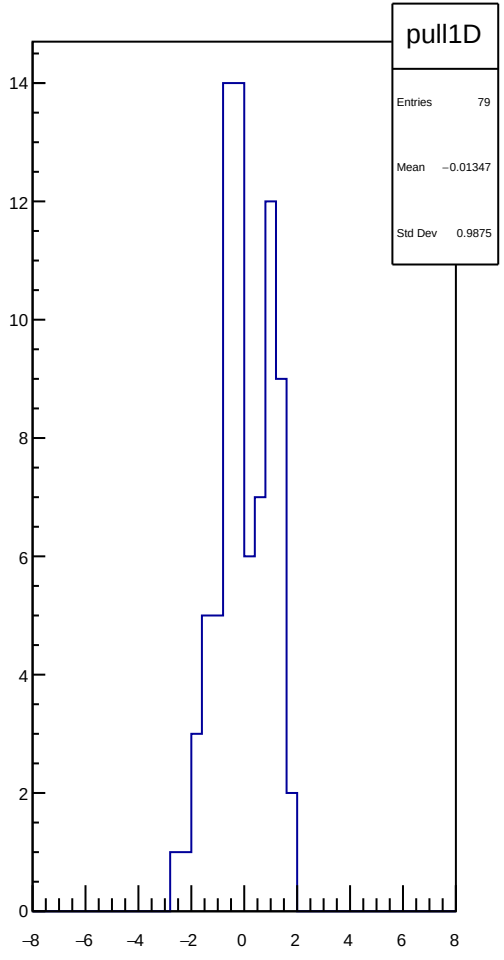

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 715 / 78
p0 226.2 ± 0.1827
245
240
235
230
225
220
215

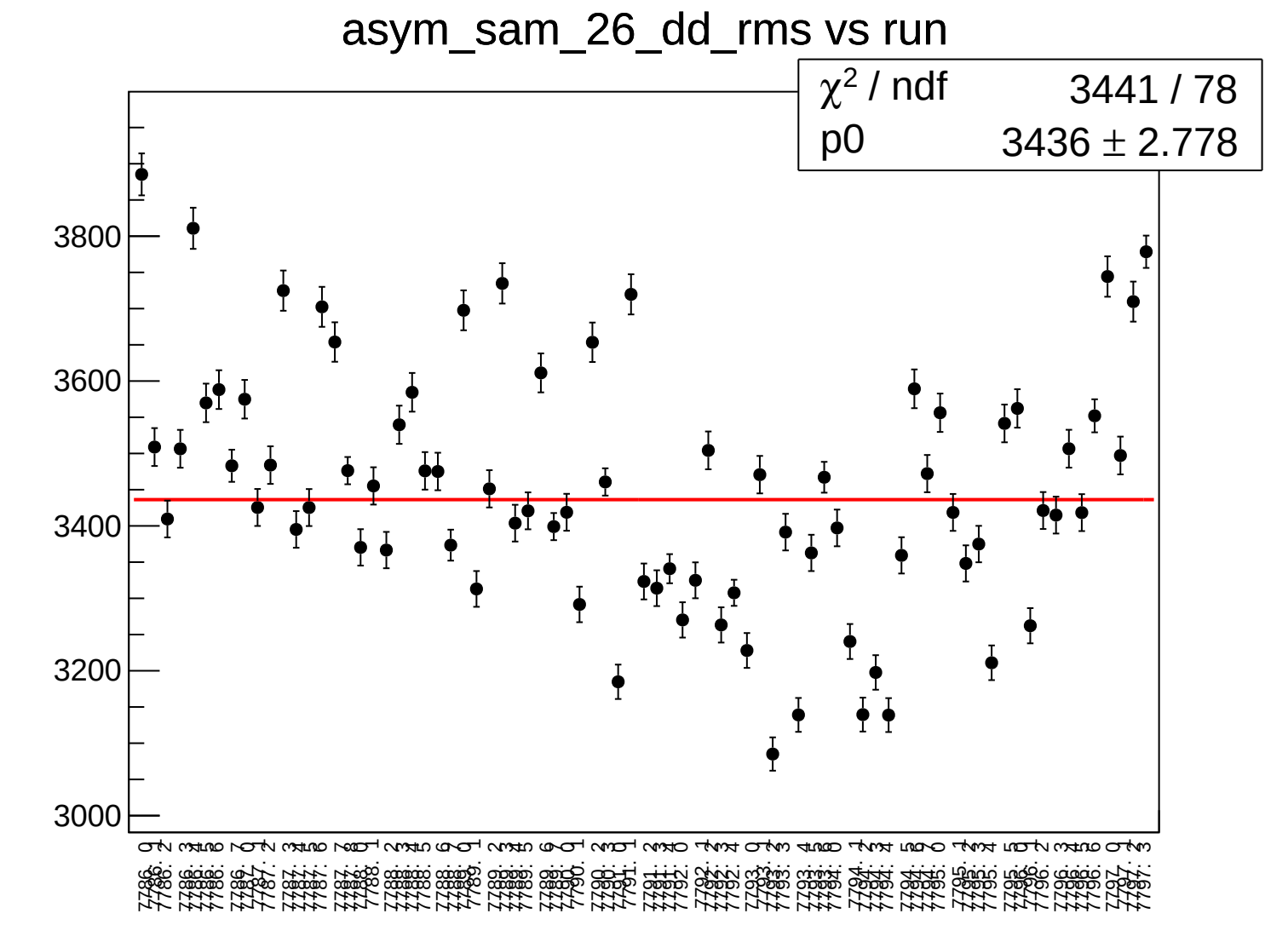

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.46 / 78
p0 −6245 ± 3975
150
100
50
0
−50
−100
pull
Entries 79
Mean −33.94
Std Dev 6.317
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

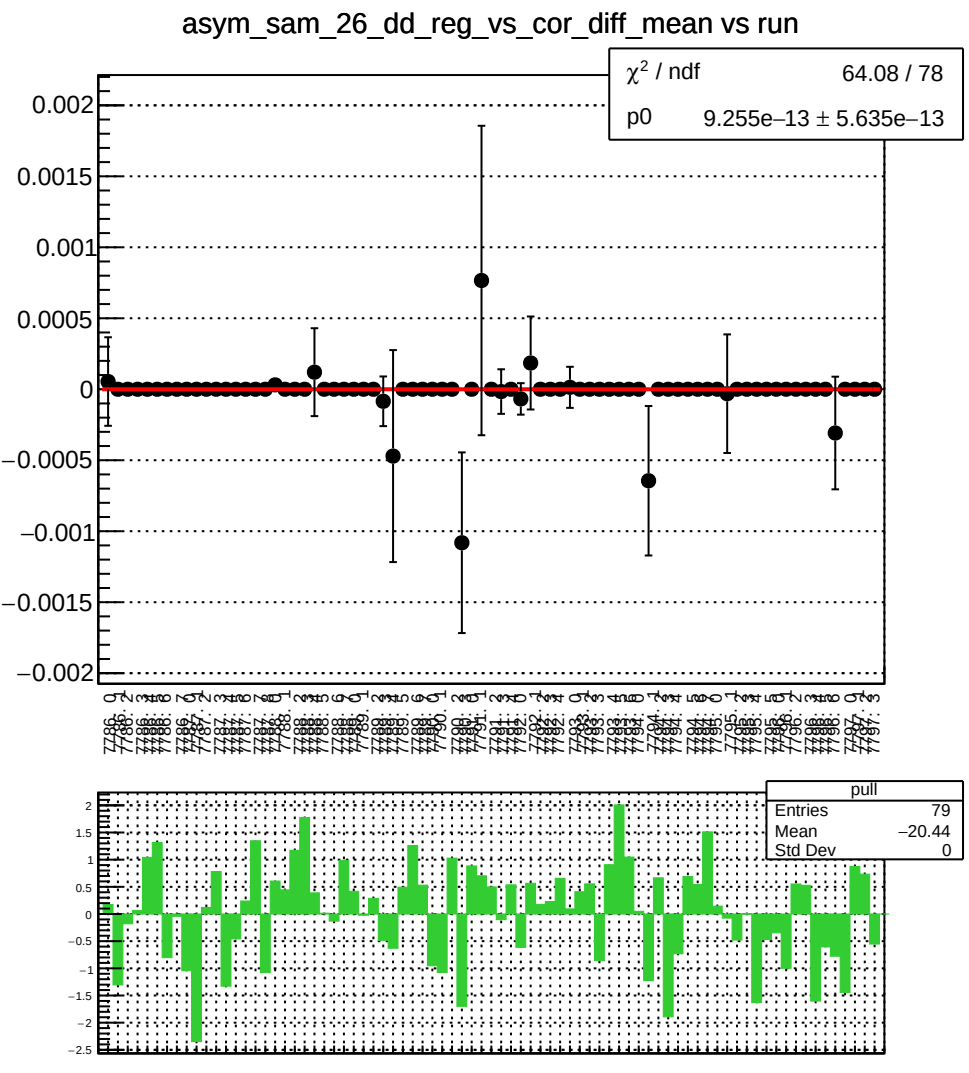

pull1D
Entries 79
Mean 0.01428
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

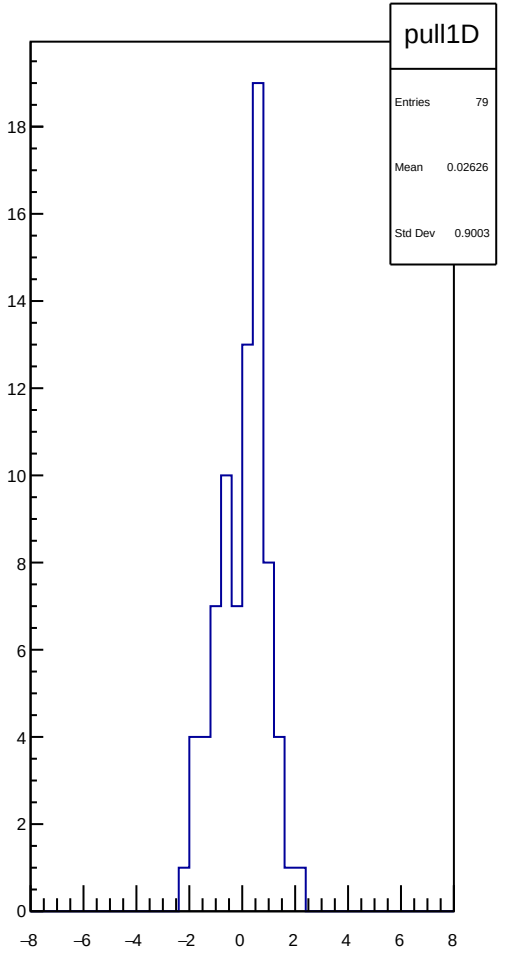

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3364 / 78
p0 3477 ± 2.811
4000
3800
3600
3400
3200

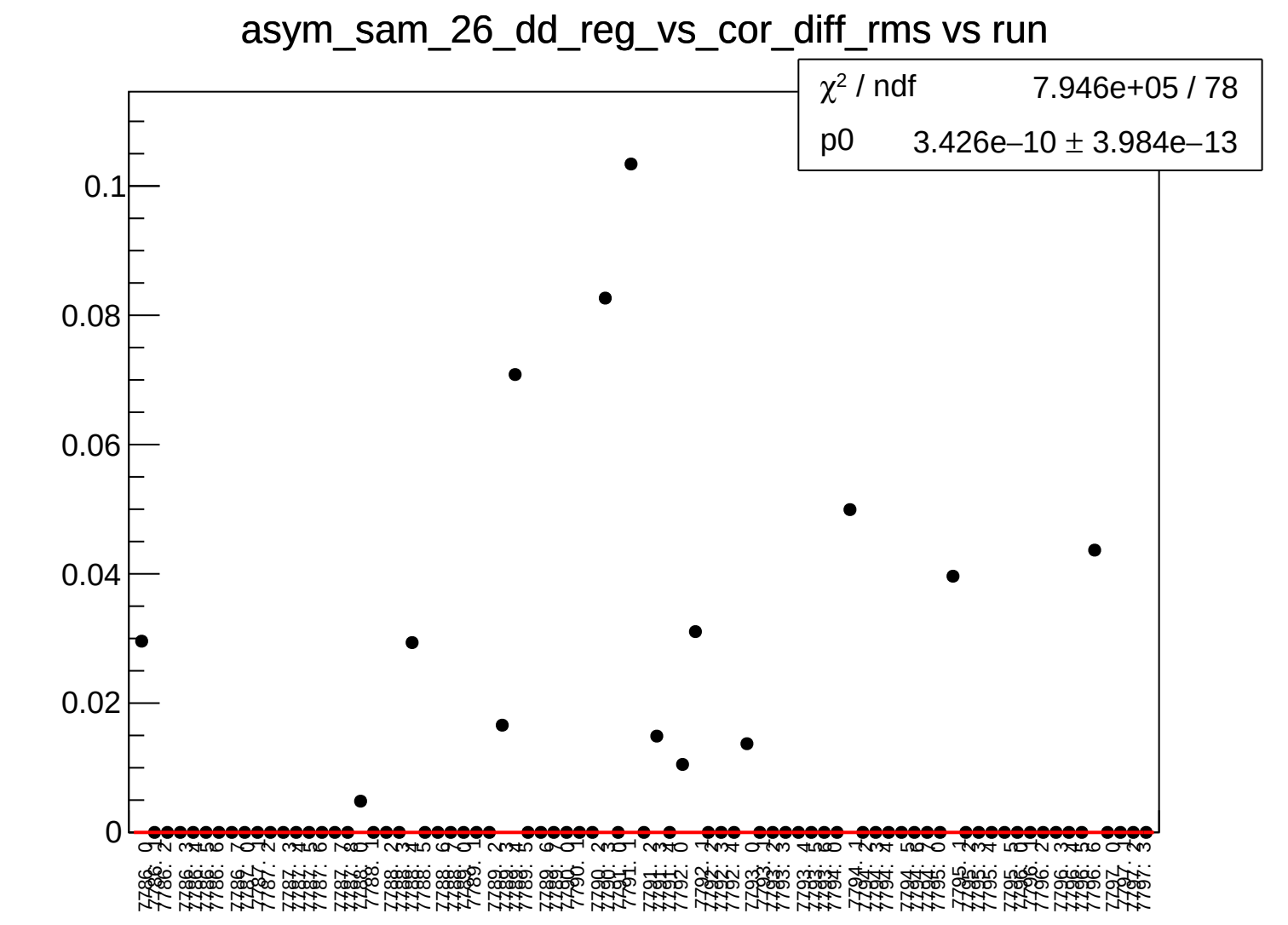

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 77.05 / 78
p0 6092 ± 3928
100
50
0
−50
−100
−150
pull
Entries 79
Mean −41.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

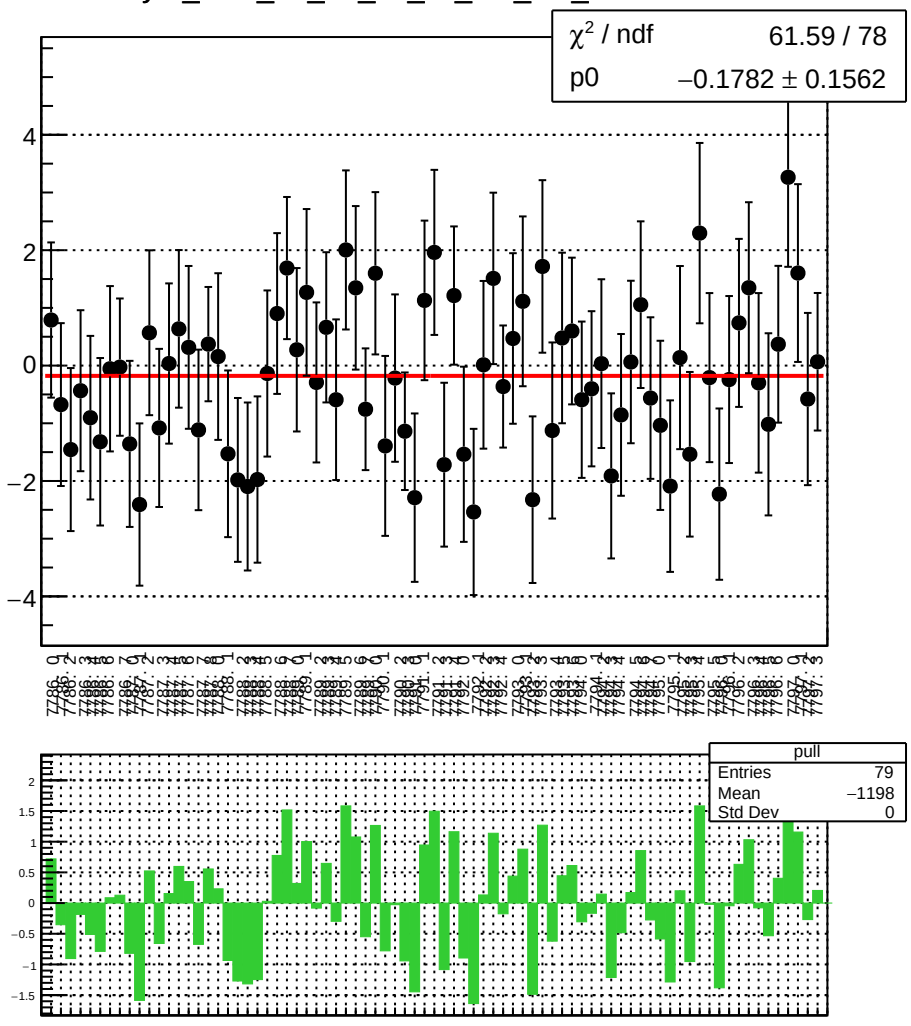

pull1D
Entries 79
Mean −0.01347
Std Dev 0.9875
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

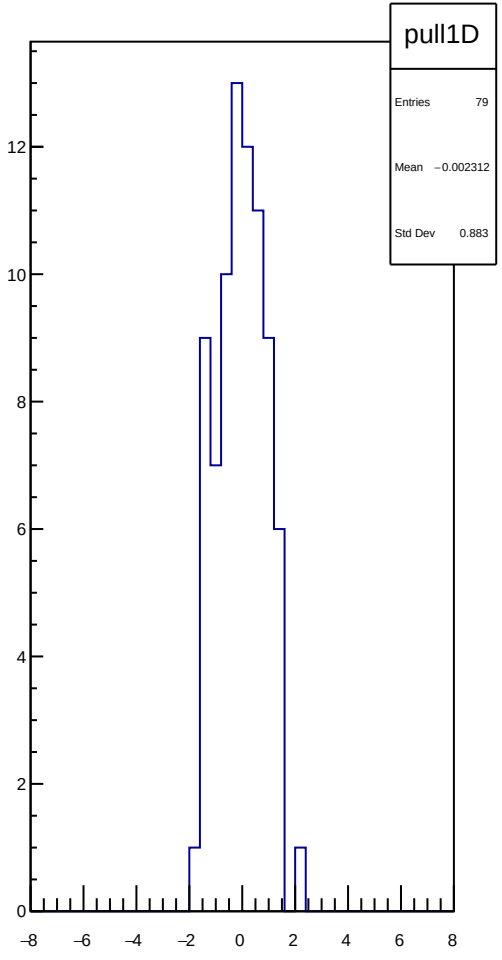

asym_sam_26_dd_rms vs run
χ² / ndf 3441 / 78
p0 3436 ± 2.778
3800
3600
3400
3200
3000

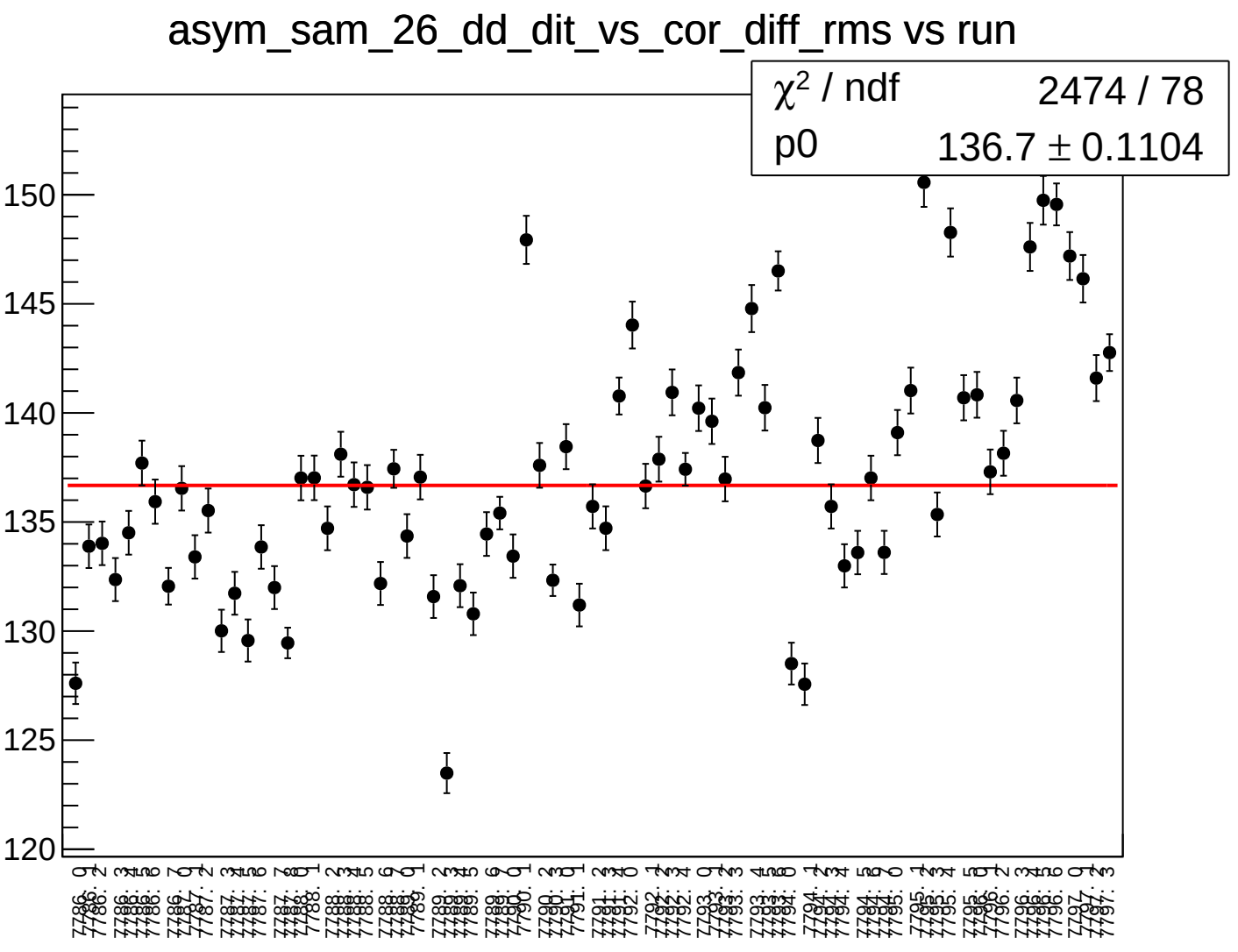

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.08 / 78
p0 9.255e−13 ± 5.635e−13
pull
Entries 79
Mean −20.44
Std Dev 0


pull1D
Entries 79
Mean 0.02626
Std Dev 0.9003

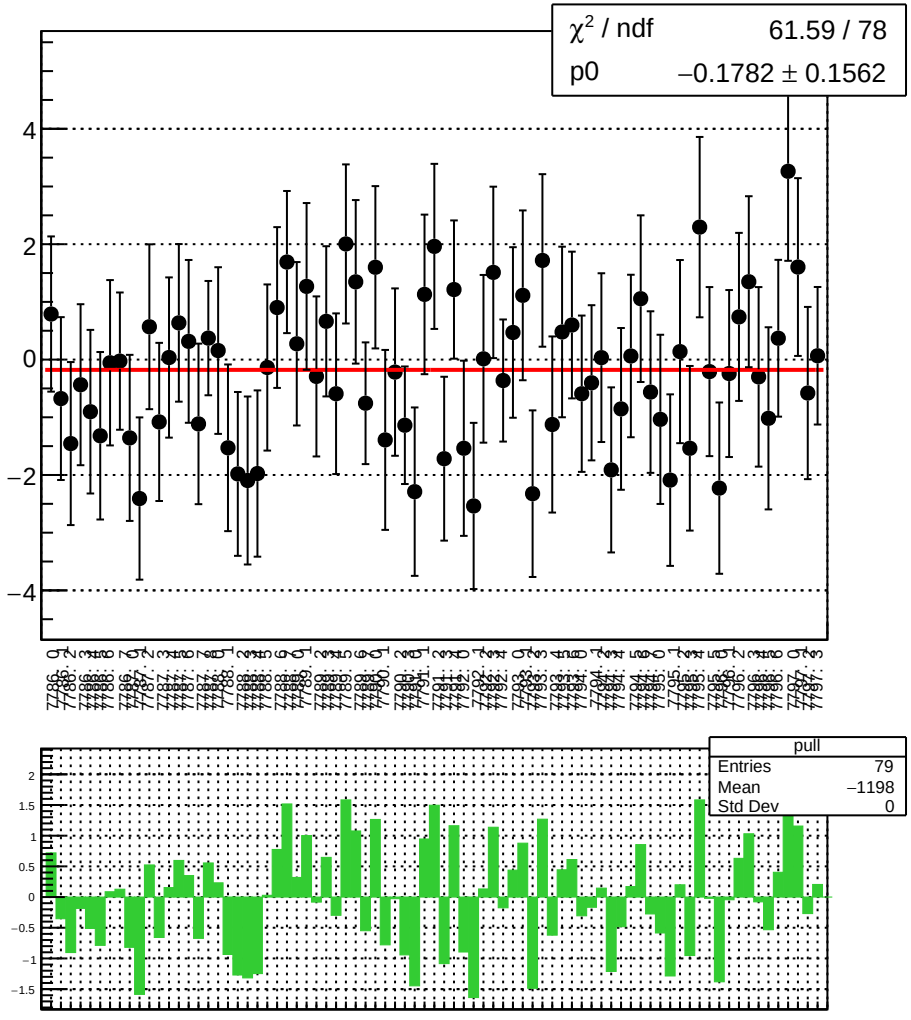

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.946e+05 / 78
p0 3.426e−10 ± 3.984e−13
0.1
0.08
0.06
0.04
0.02
0

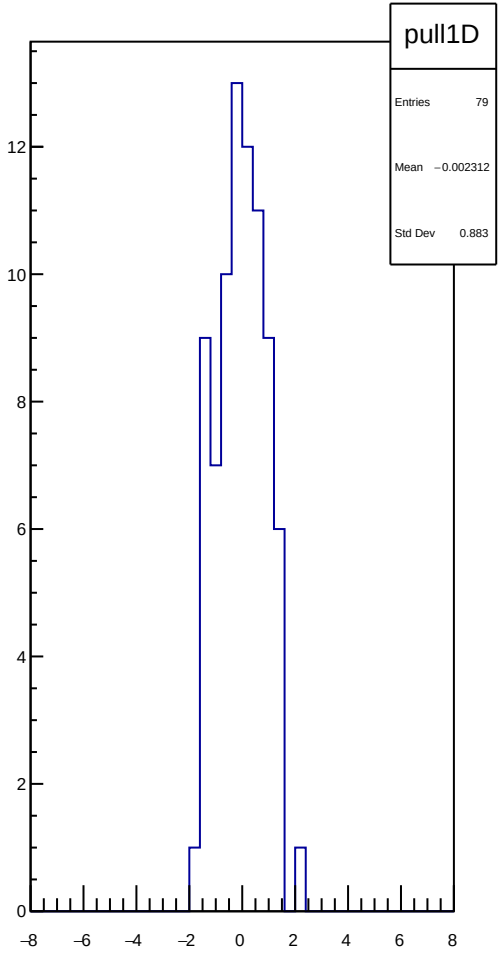

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.59 / 78
p0 −0.1782 ± 0.1562
pull
Entries 79
Mean −1198
Std Dev 0

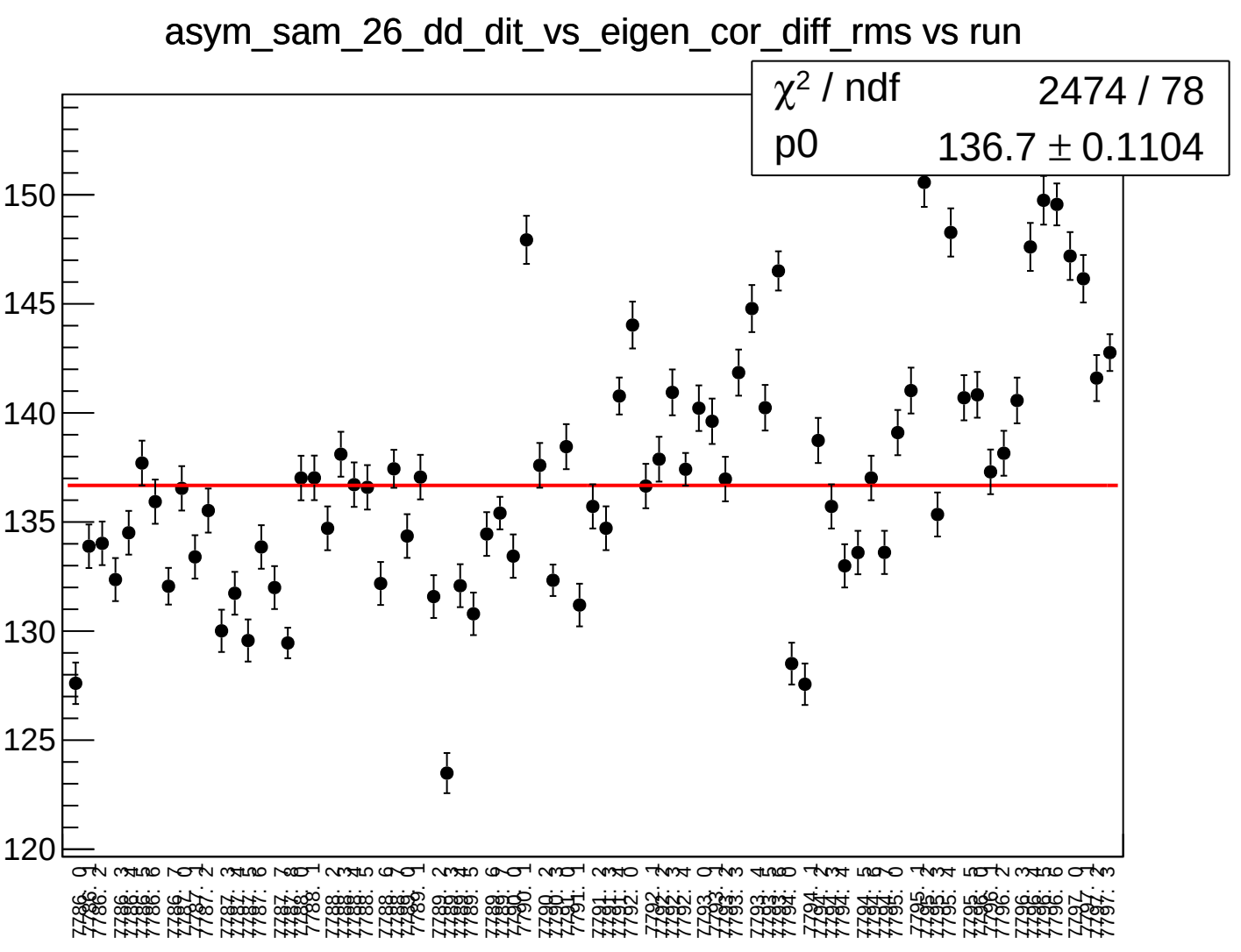

pull1D
Entries 79
Mean −0.002312
Std Dev 0.883

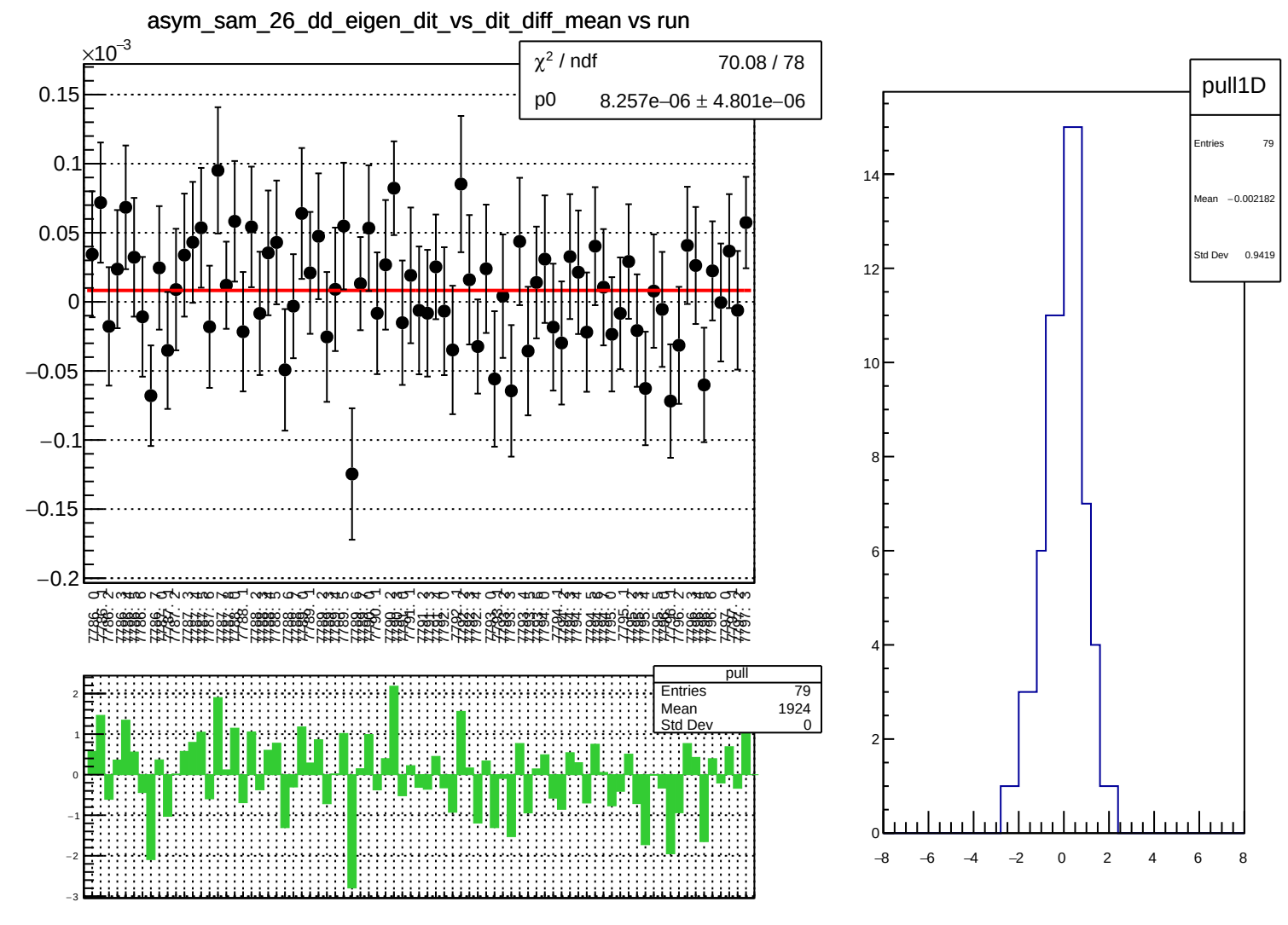

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2474 / 78
p0 136.7 ± 0.1104
150
145
140
135
130
125
120

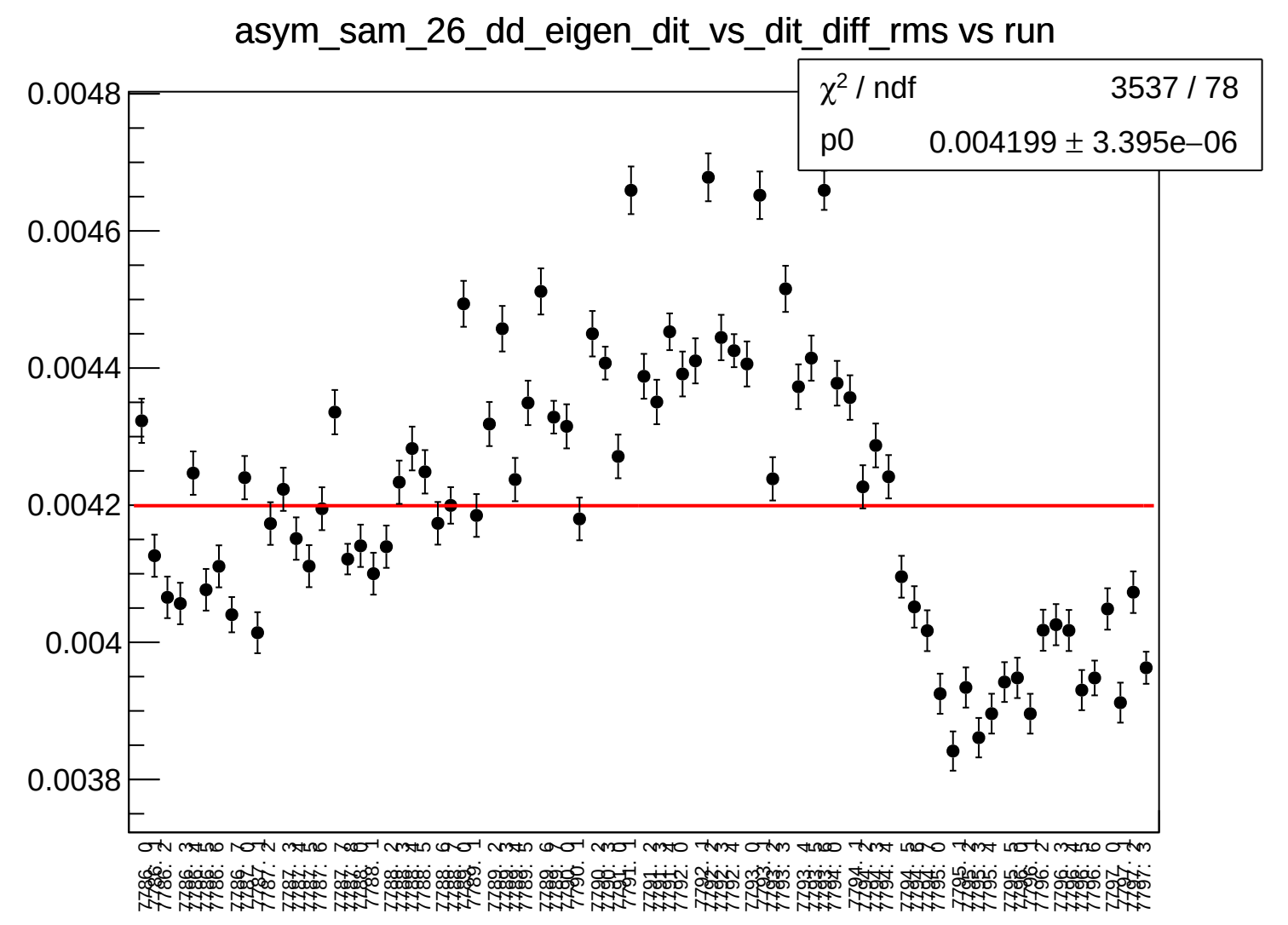
asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run

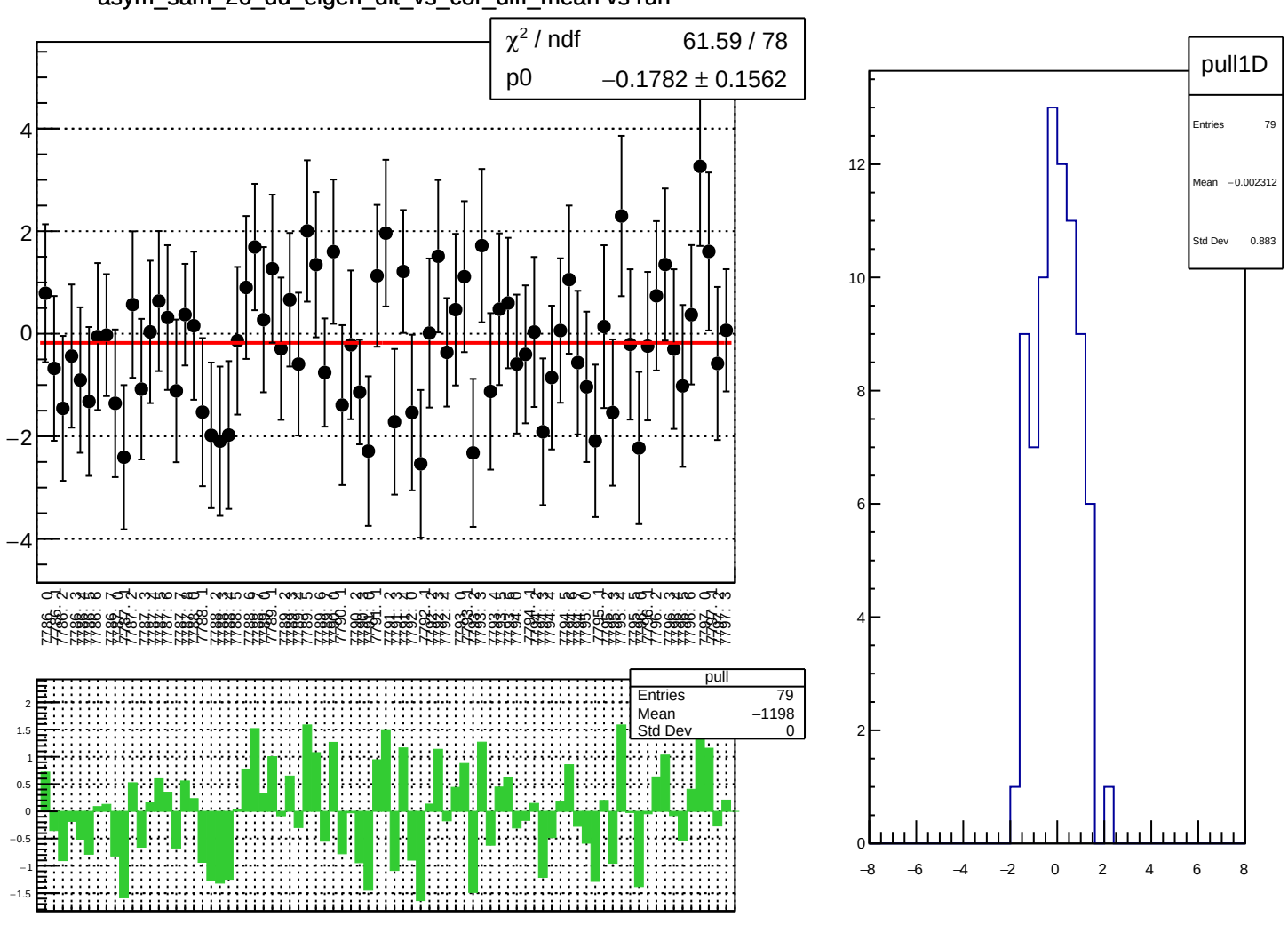


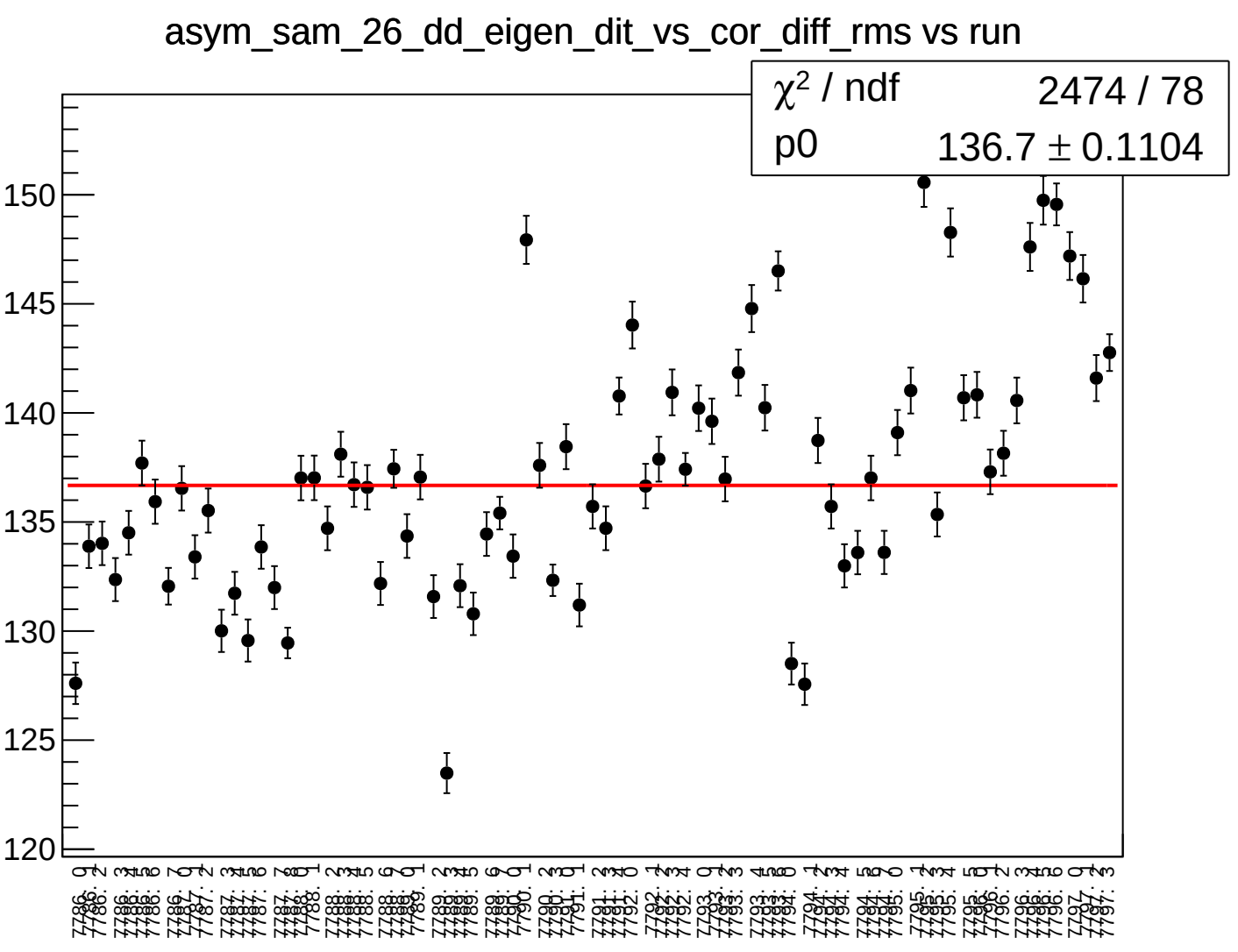



asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2474 / 78
p0 136.7 ± 0.1104
150
145
140
135
130
125
120

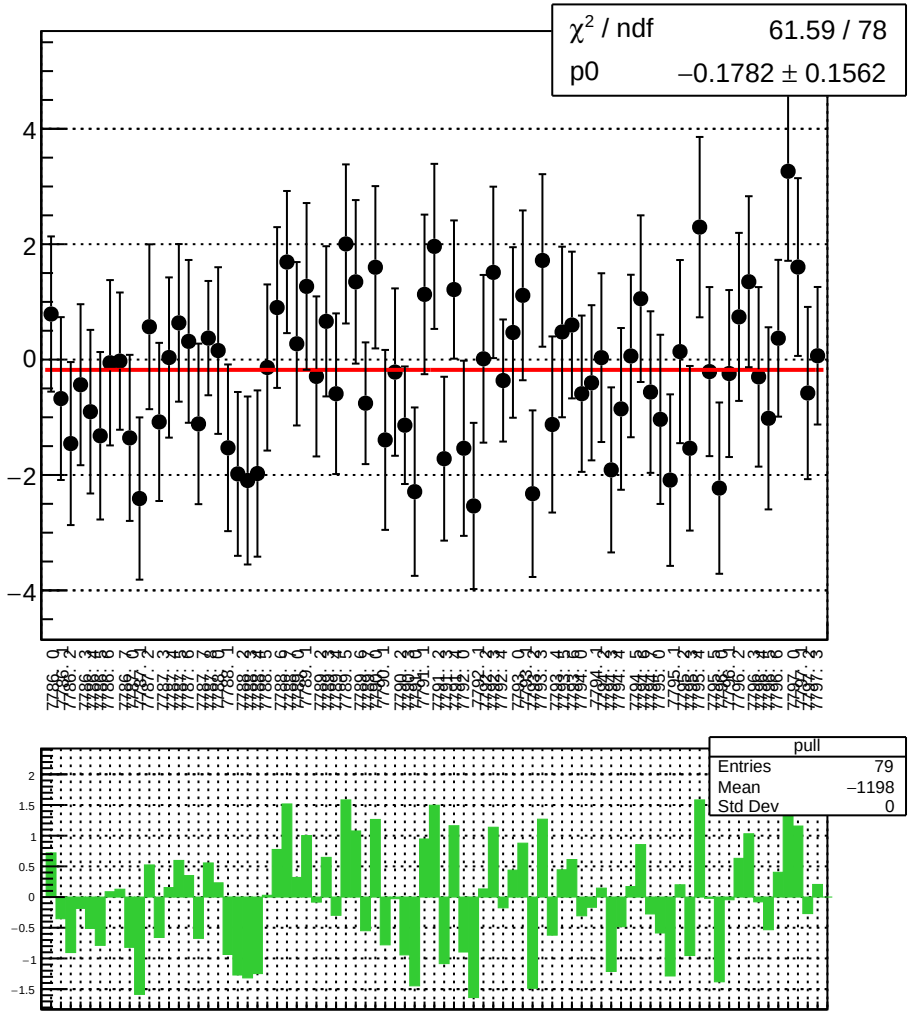

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.08 / 78
p0 8.257e−06 ± 4.801e−06
pull
Entries 79
Mean 1924
Std Dev 0
pull1D
Entries 79
Mean −0.002182
Std Dev 0.9419

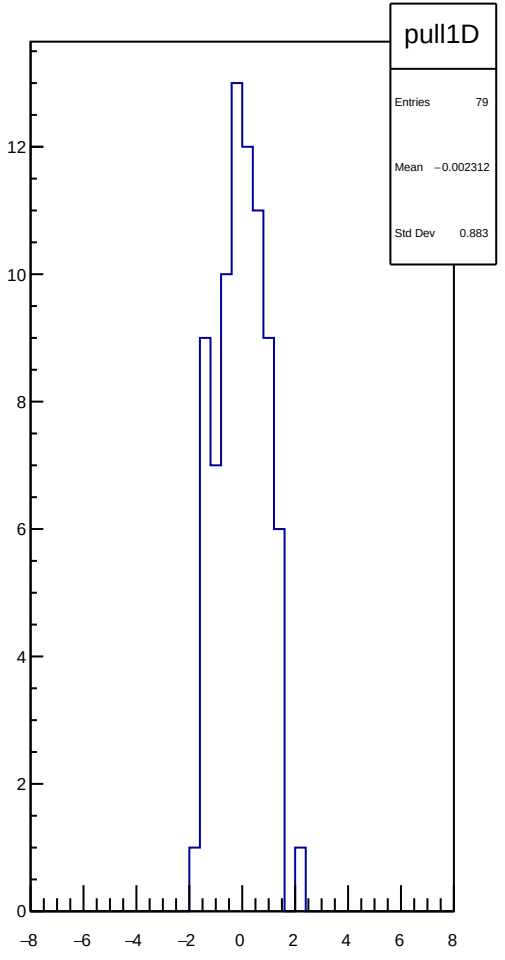

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3537 / 78
p0 0.004199 ± 3.395e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

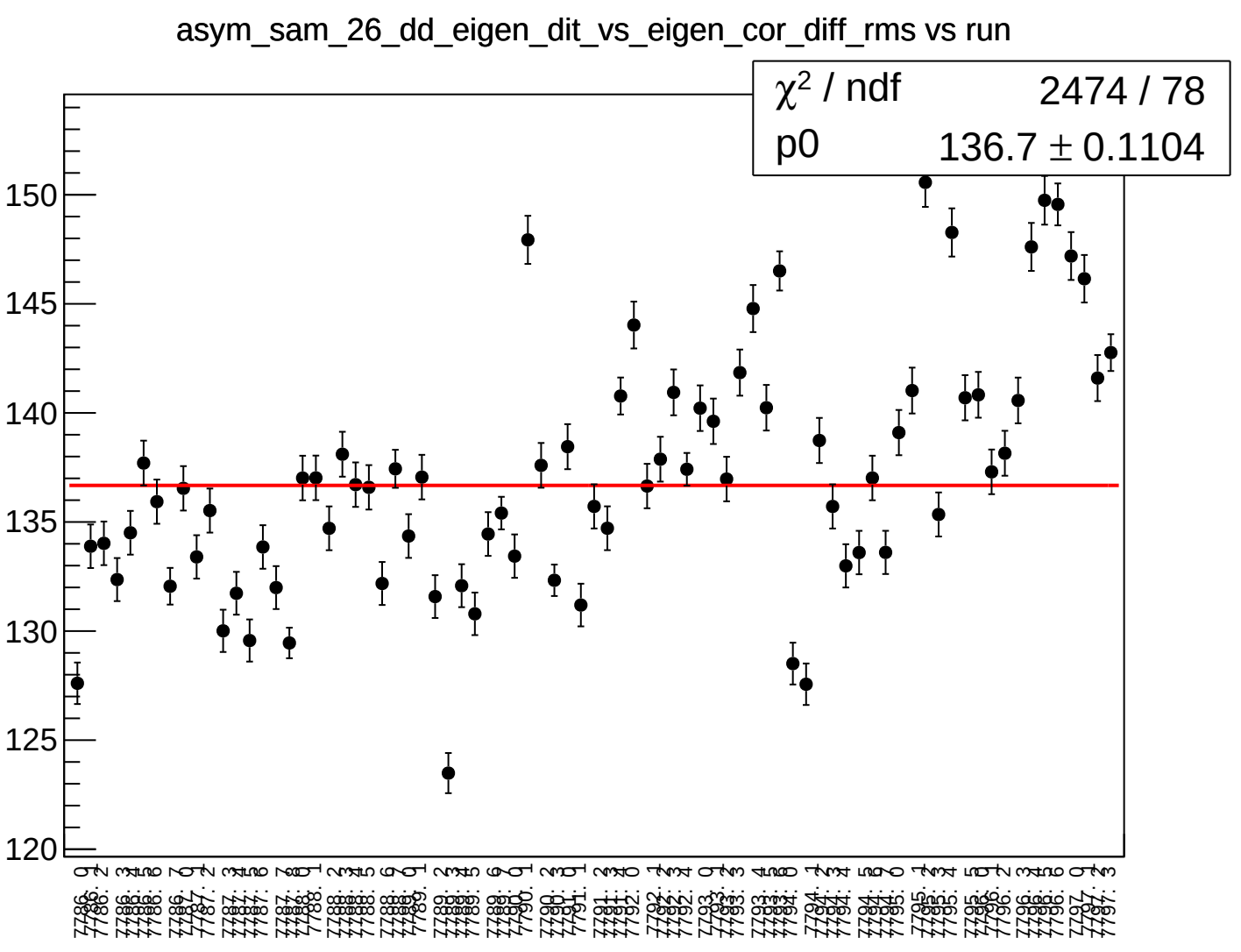

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.59 / 78
p0 −0.1782 ± 0.1562
pull
Entries 79
Mean −1198
Std Dev 0
pull1D
Entries 79
Mean −0.002312
Std Dev 0.883

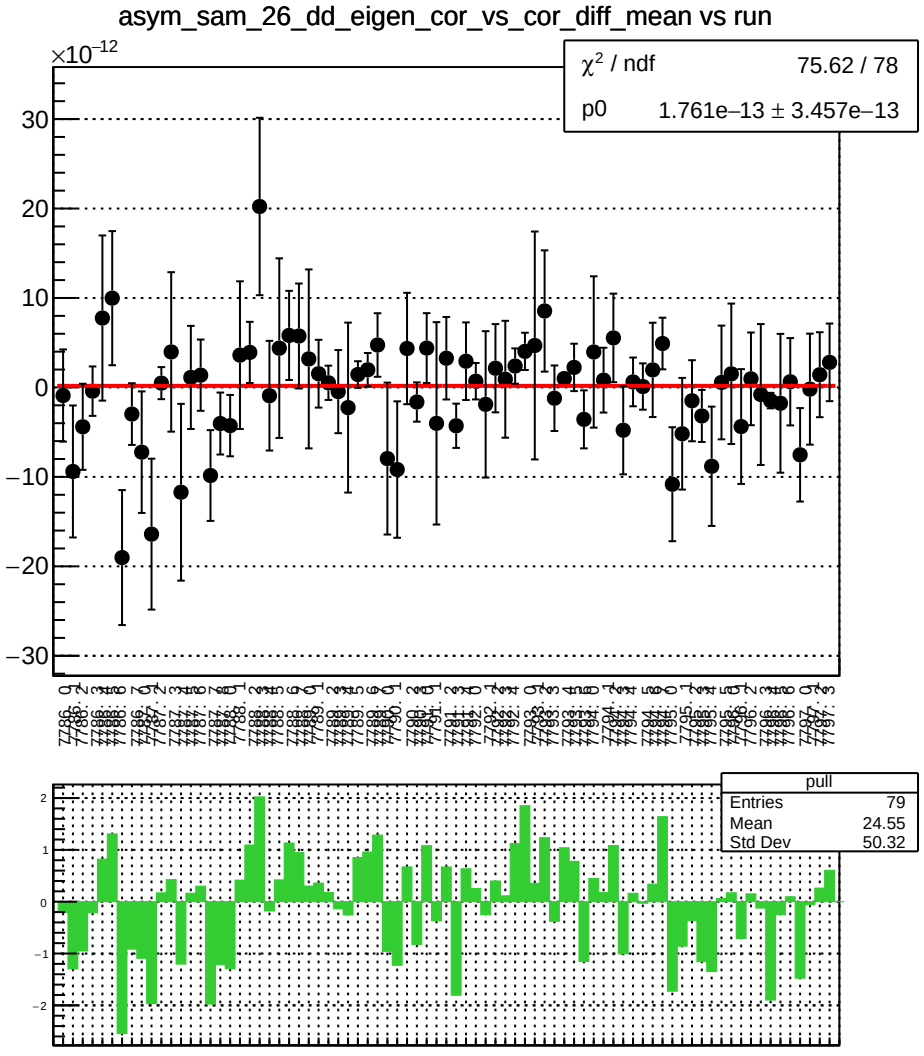

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2474 / 78
p0 136.7 ± 0.1104
150
145
140
135
130
125
120

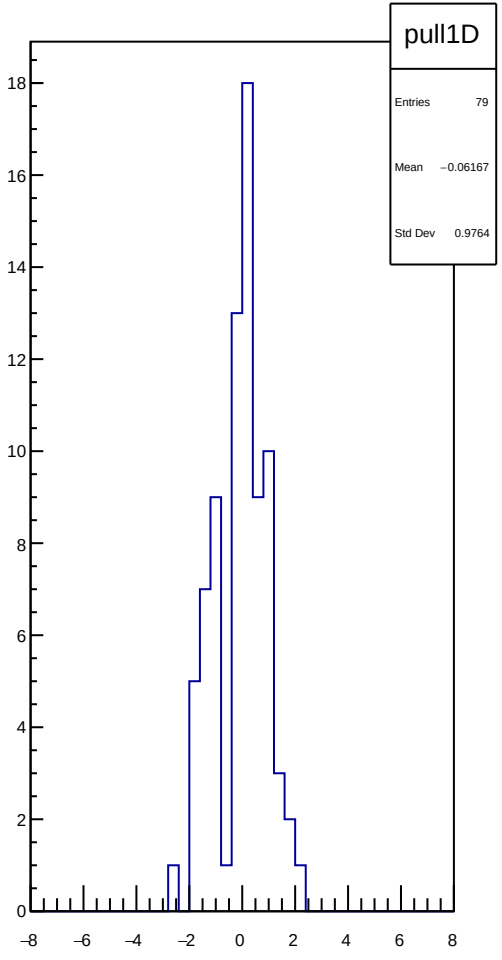
asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

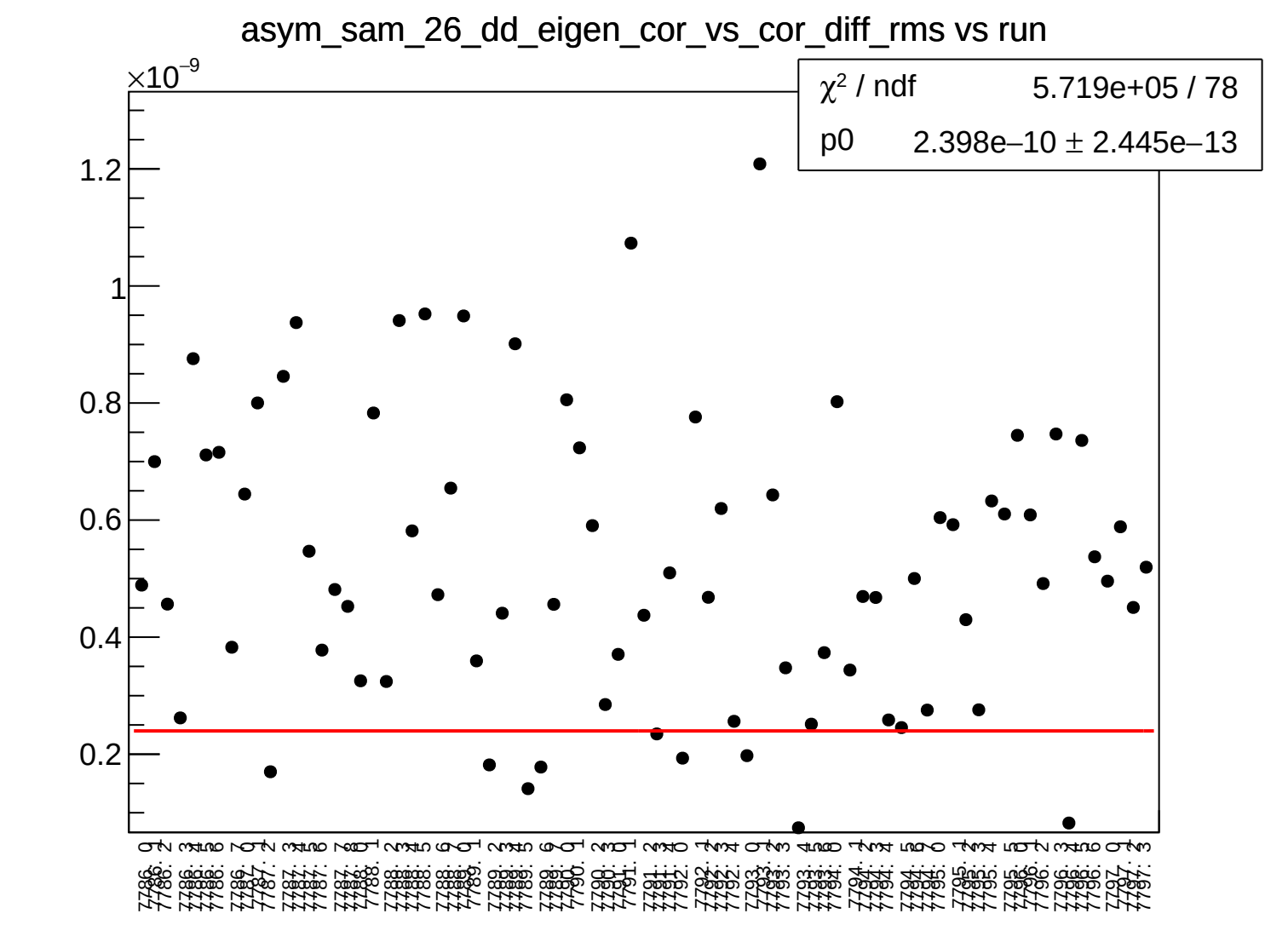


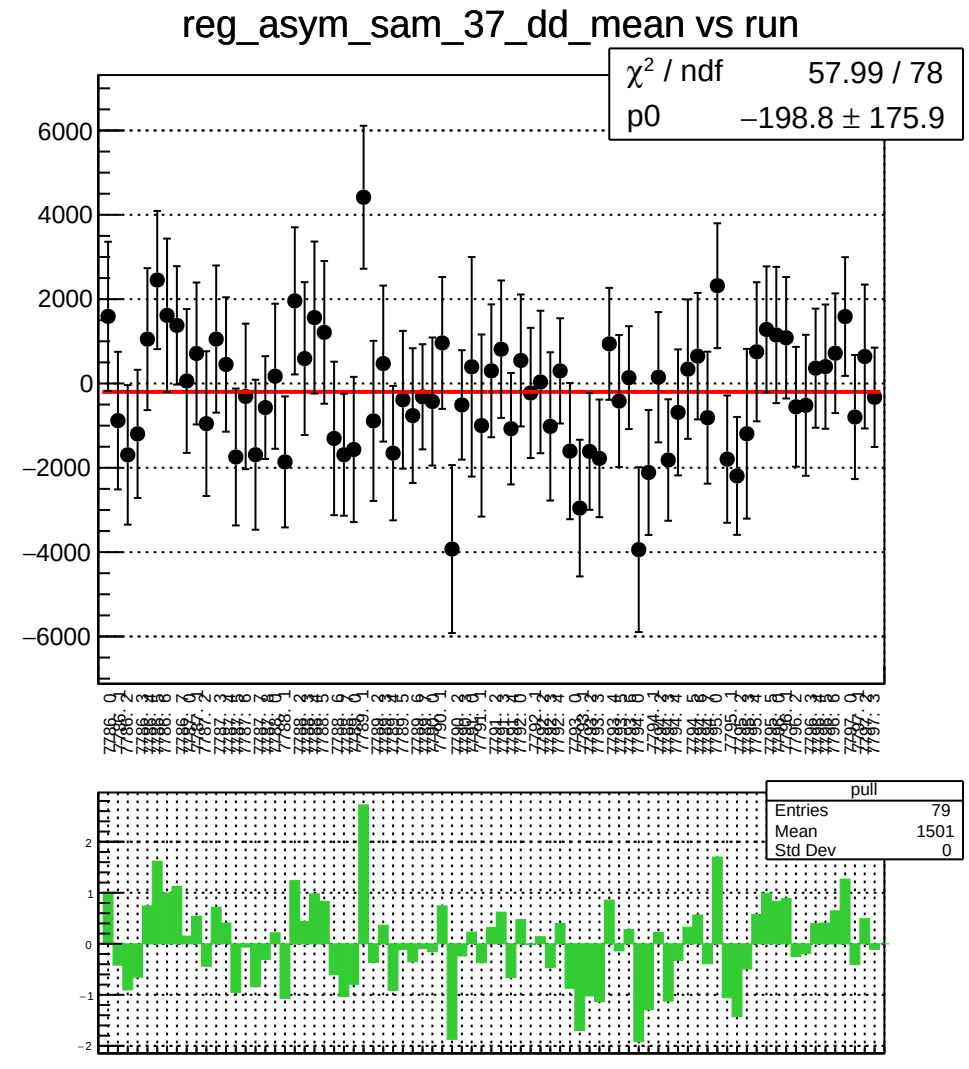


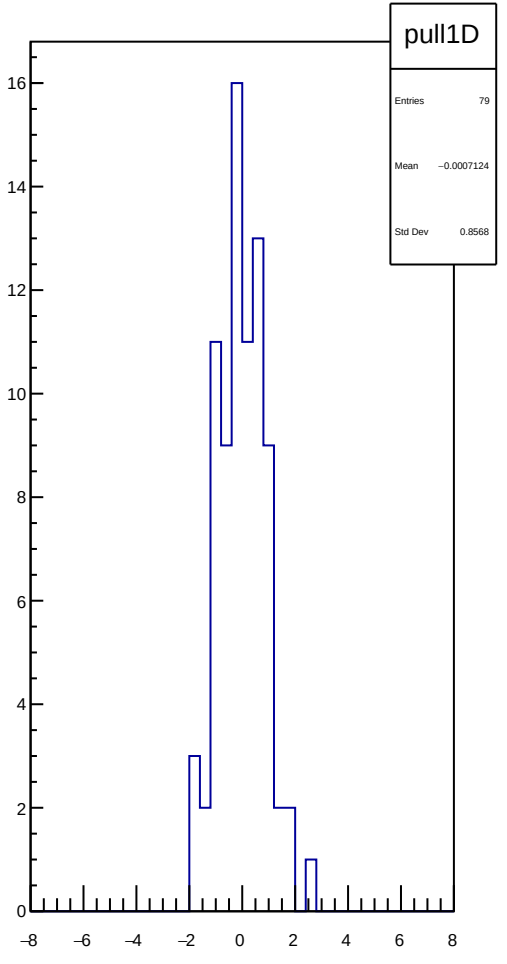

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2474 / 78
p0 136.7 ± 0.1104
150
145
140
135
130
125
120

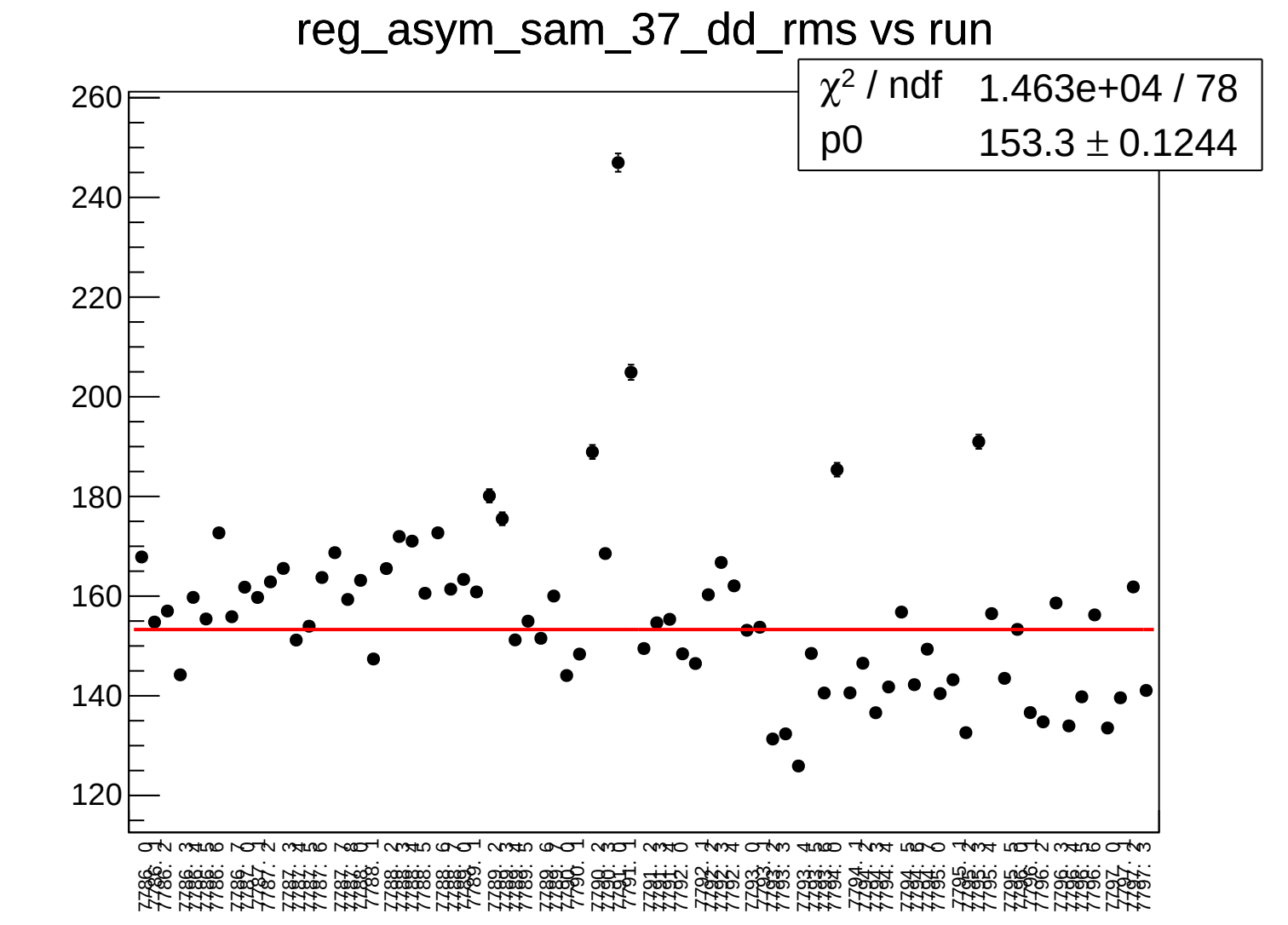

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.62 / 78
p0 1.761e−13 ± 3.457e−13
pull
Entries 79
Mean 24.55
Std Dev 50.32

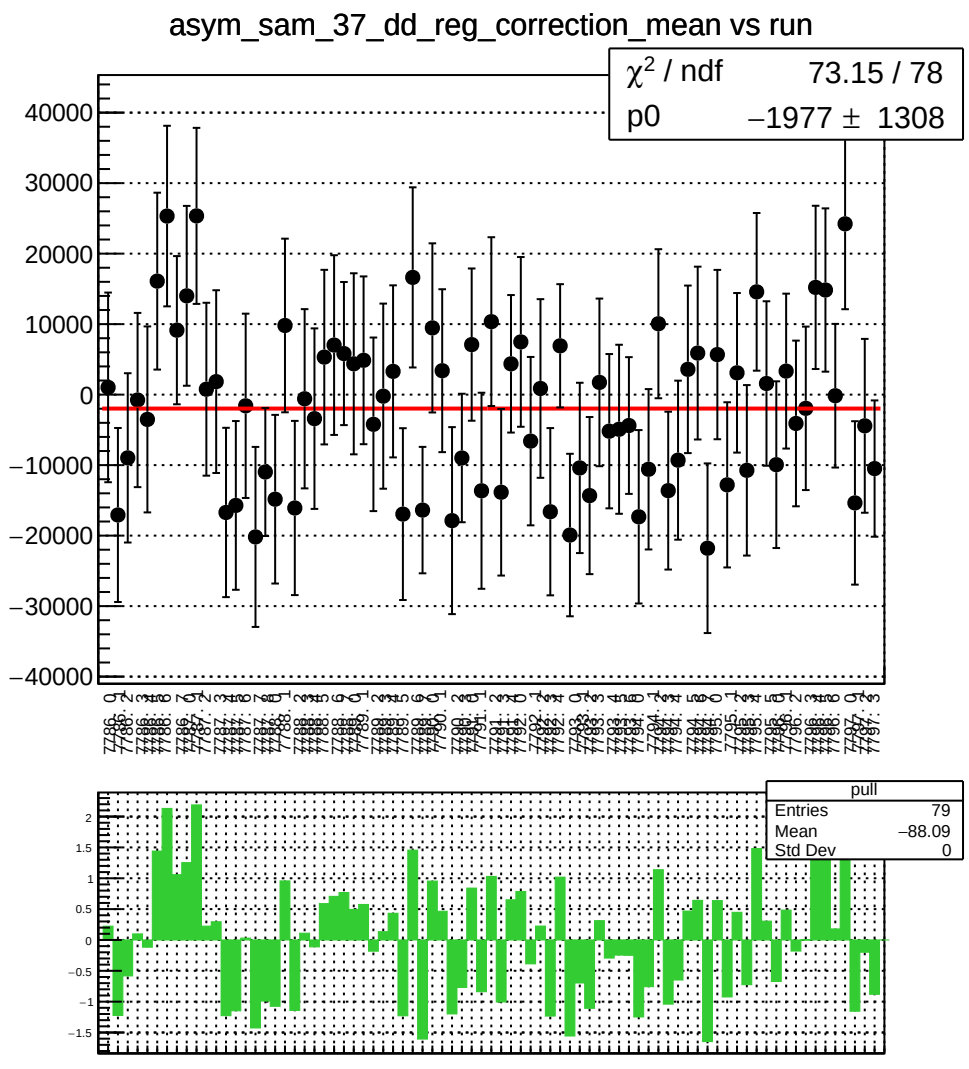

pull1D
Entries 79
Mean −0.06167
Std Dev 0.9764

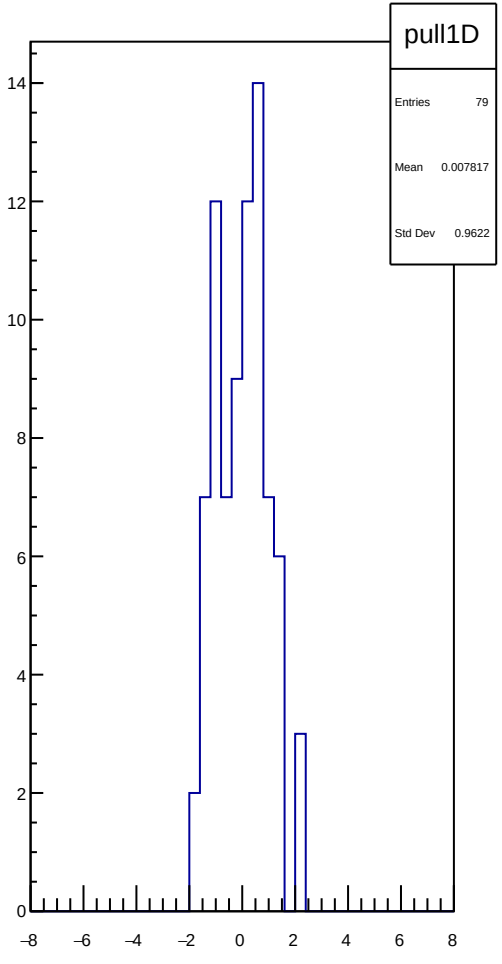

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.719e+05 / 78
p0 2.398e−10 ± 2.445e−13
1.2
1
0.8
0.6
0.4
0.2

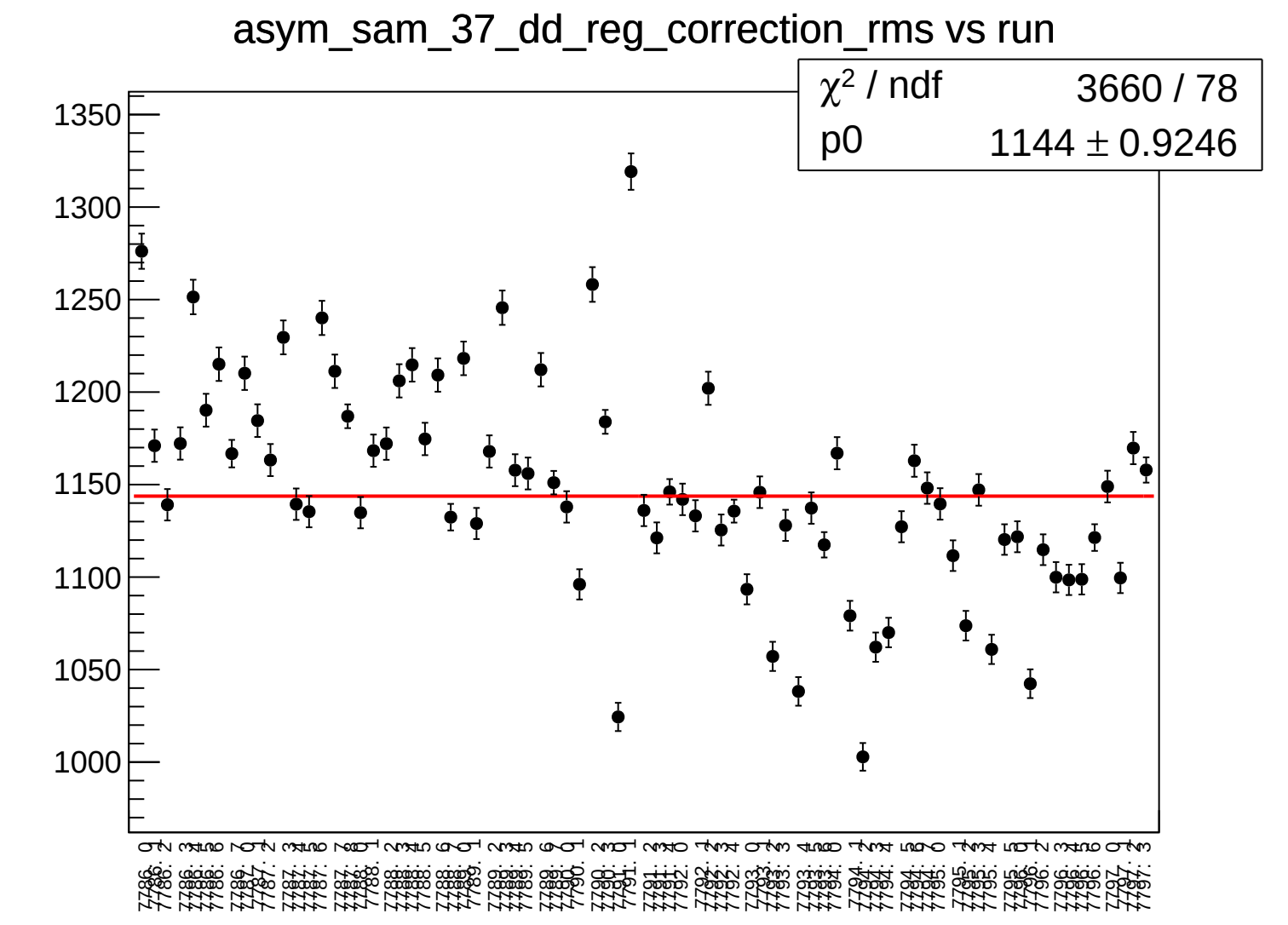

reg_asym_sam_37_dd_mean vs run
χ² / ndf 57.99 / 78
p0 −198.8 ± 175.9
pull
Entries 79
Mean 1501
Std Dev 0

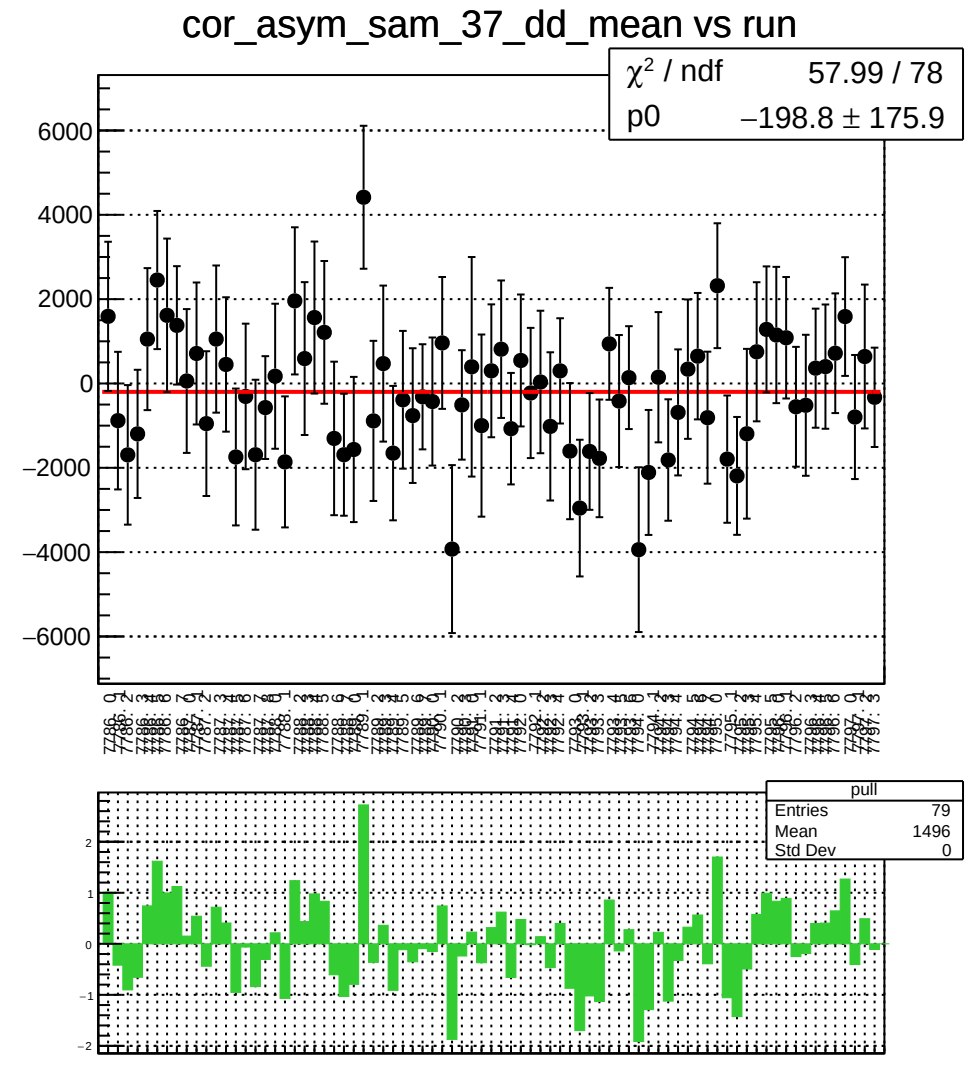

pull1D
Entries 79
Mean −0.0007124
Std Dev 0.8568

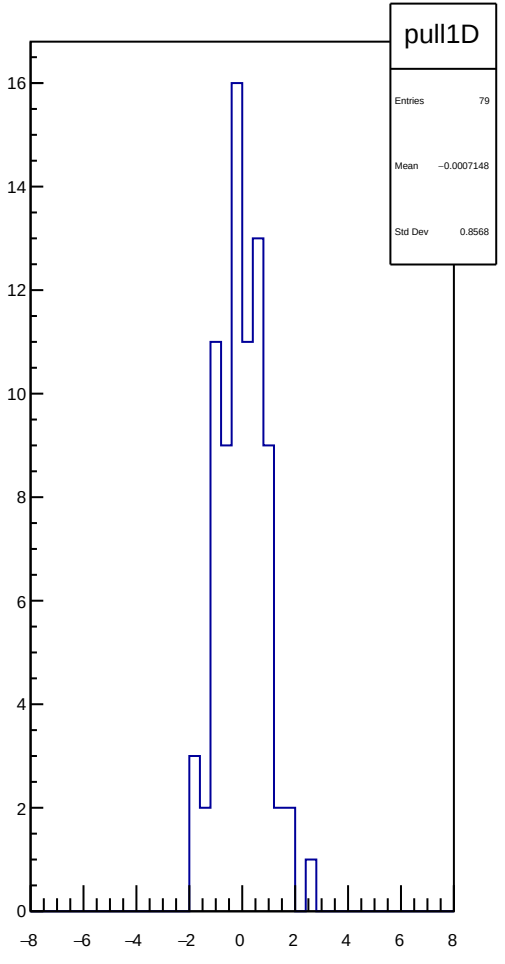

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.463e+04 / 78
p0 153.3 ± 0.1244
260
240
220
200
180
160
140
120

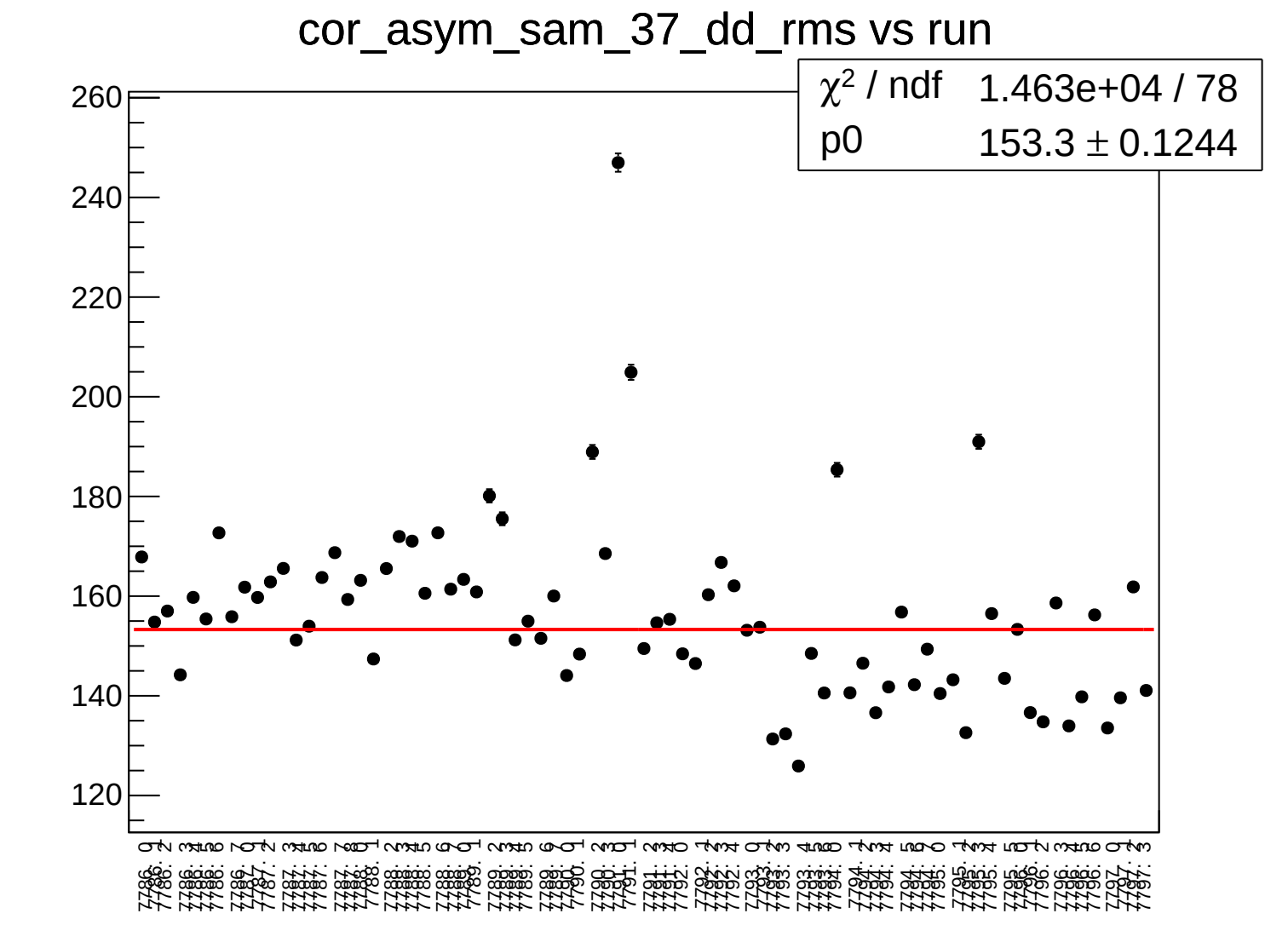

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 73.15 / 78
p0 −1977 ± 1308
pull
Entries 79
Mean −88.09
Std Dev 0

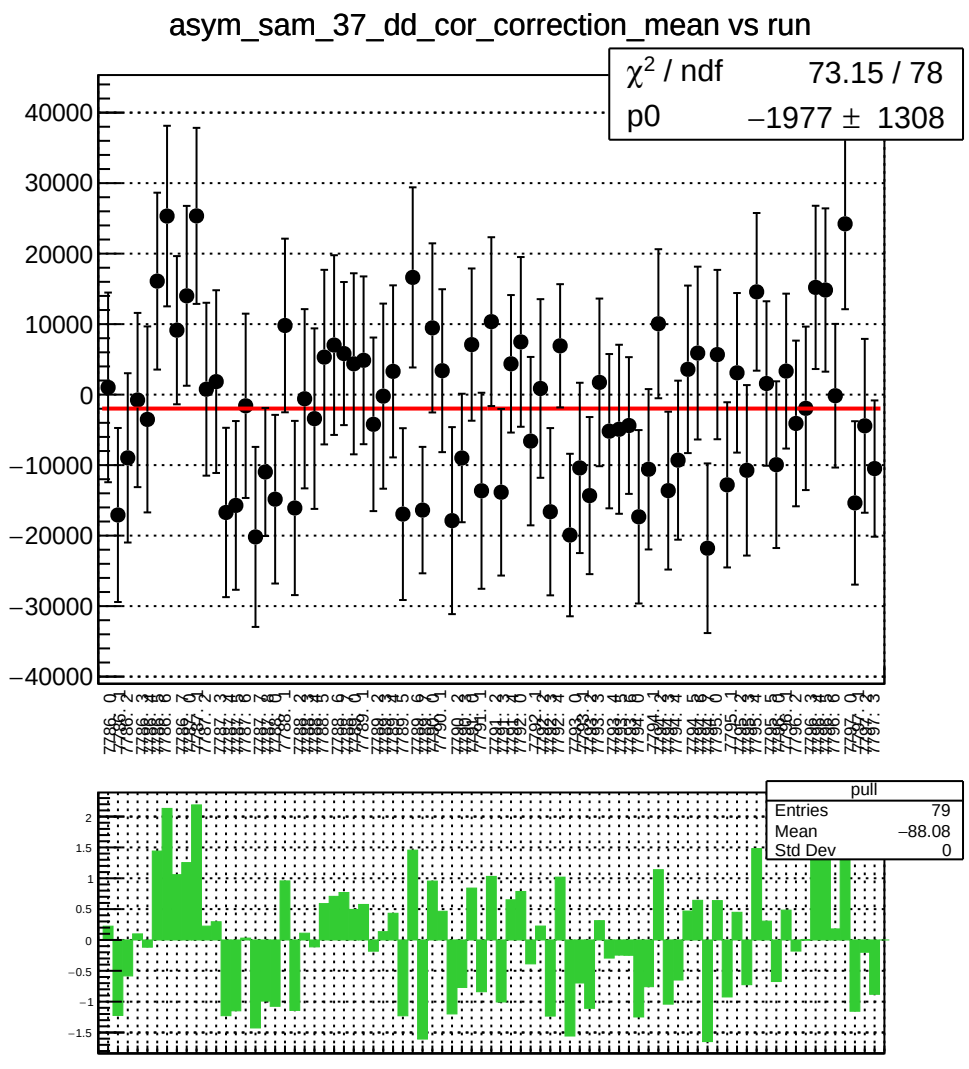

pull1D
Entries 79
Mean 0.007817
Std Dev 0.9622

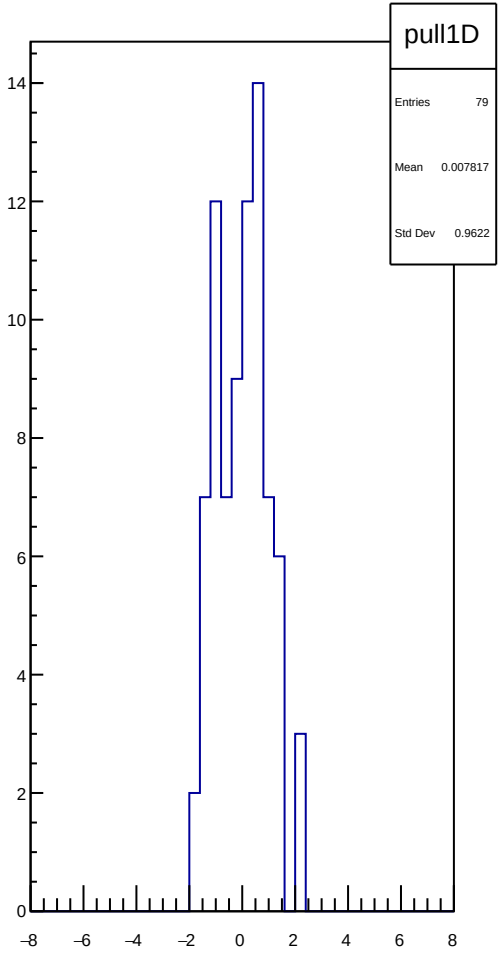

asym_sam_37_dd_reg_correction_rms vs run
χ^2 / ndf 3660 / 78
p0 1144 ± 0.9246
1350
1300
1250
1200
1150
1100
1050
1000

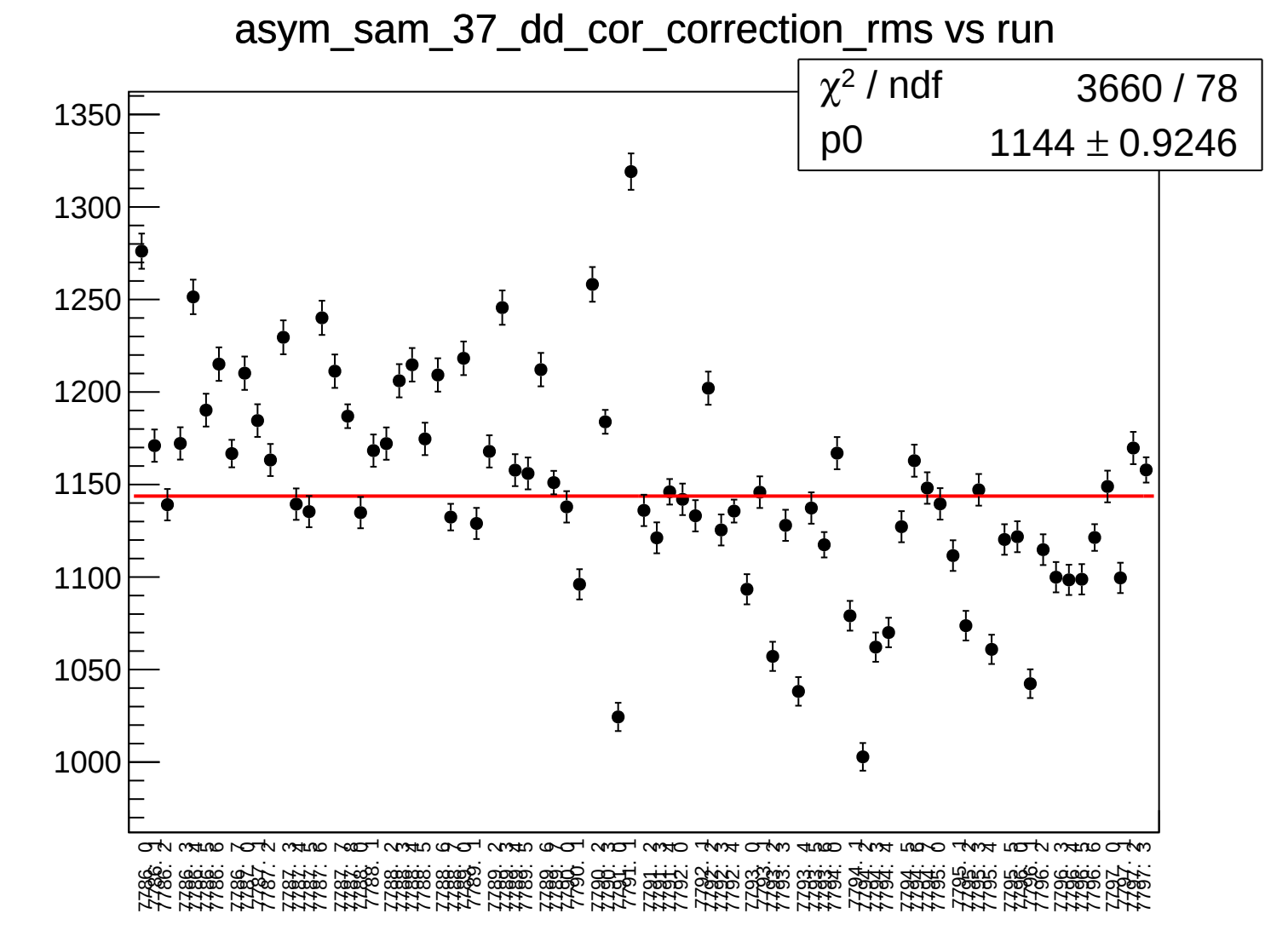

cor_asym_sam_37_dd_mean vs run
χ² / ndf 57.99 / 78
p0 −198.8 ± 175.9
pull
Entries 79
Mean 1496
Std Dev 0

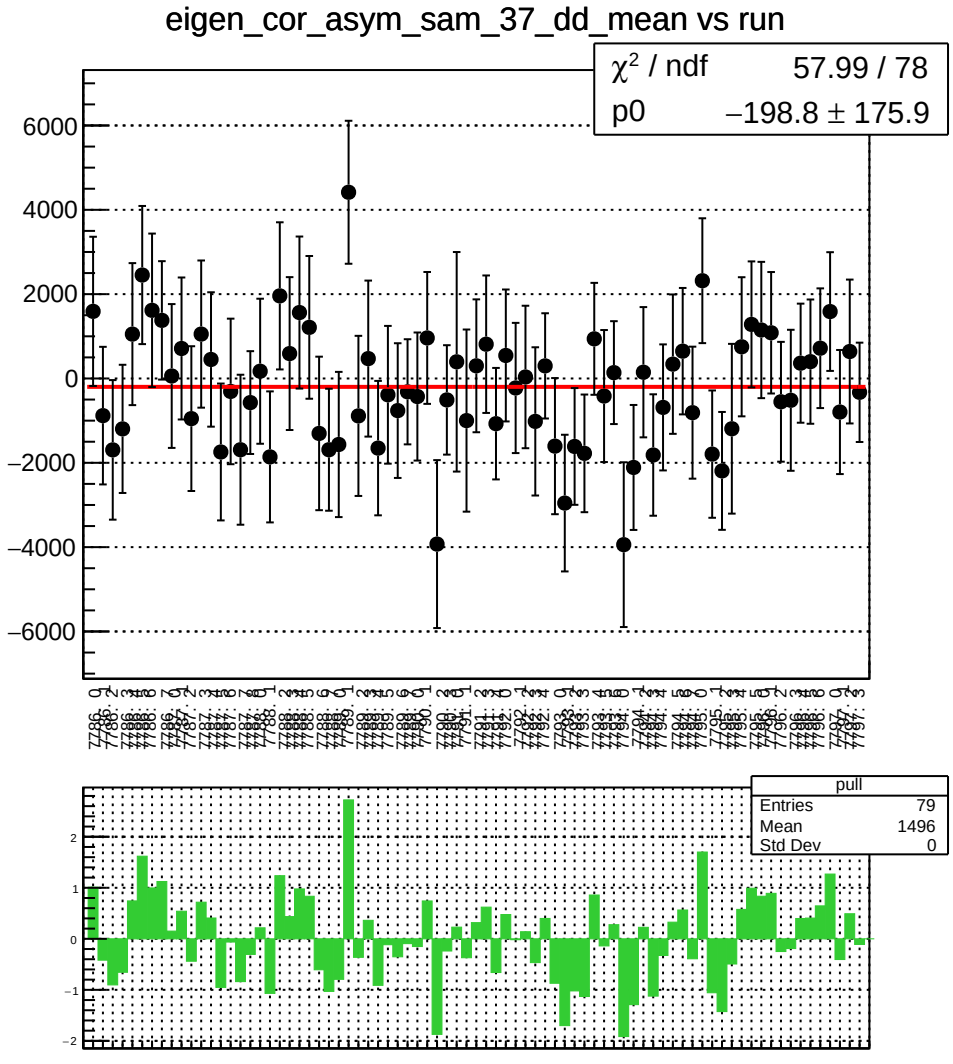

pull1D
Entries 79
Mean −0.0007148
Std Dev 0.8568

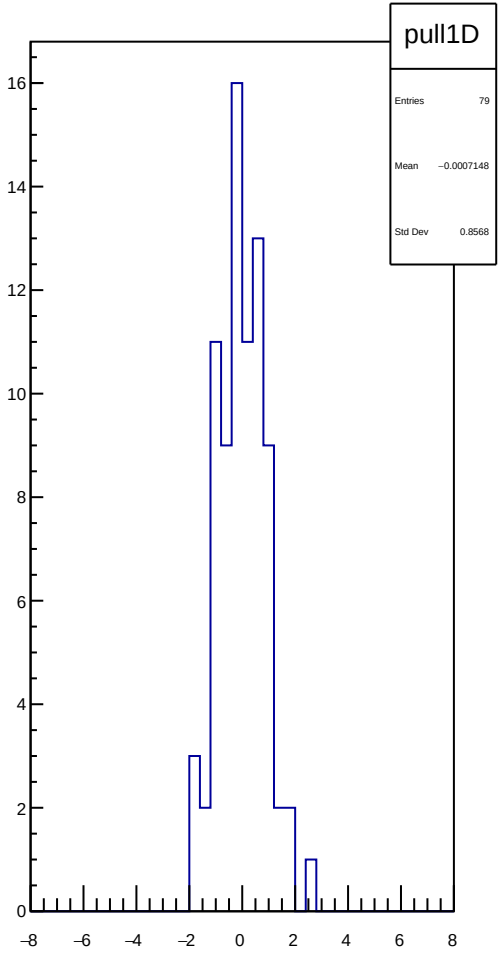

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.463e+04 / 78
p0 153.3 ± 0.1244
260
240
220
200
180
160
140
120

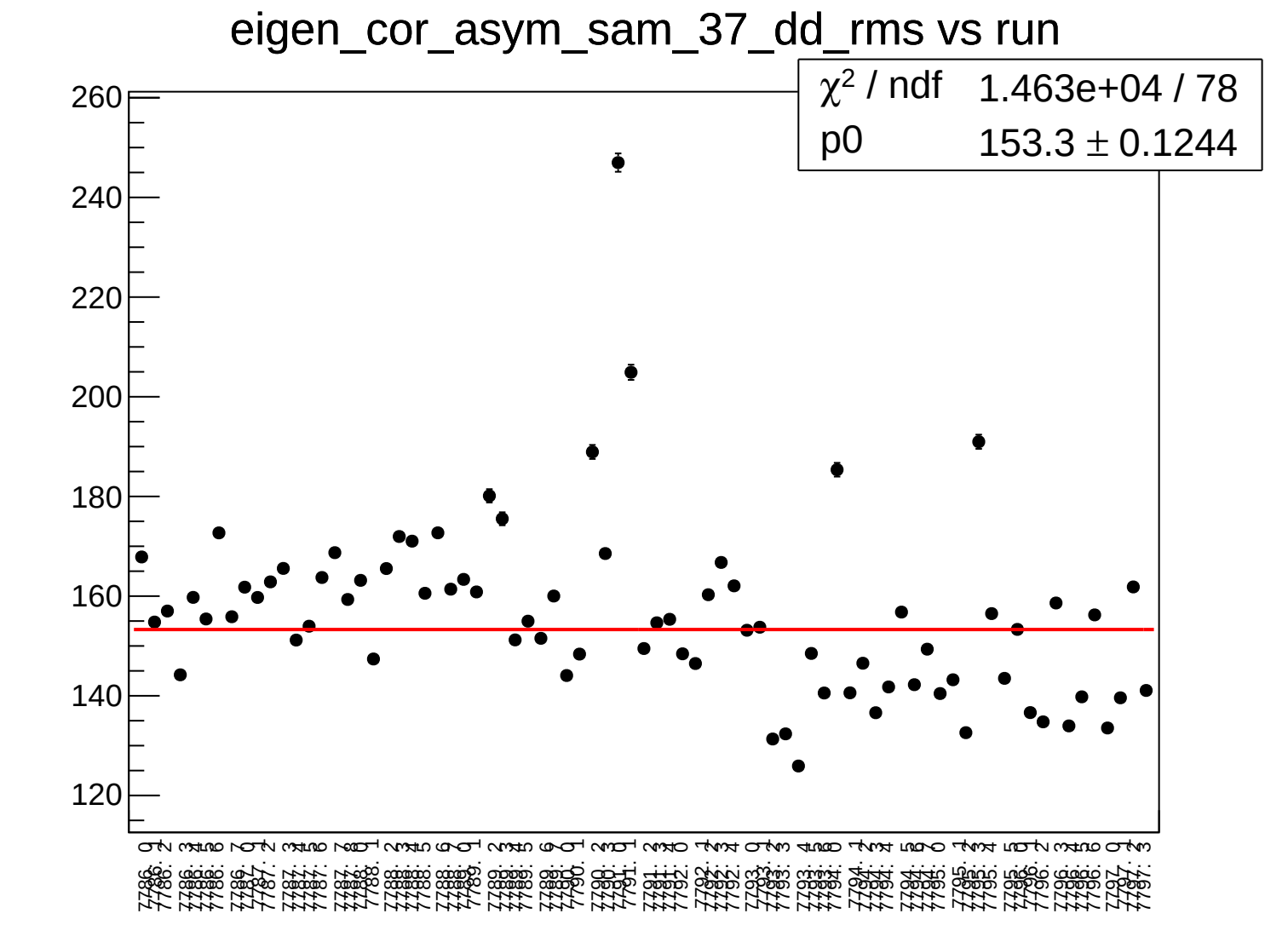

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 73.15 / 78
p0 −1977 ± 1308
pull
Entries 79
Mean −88.08
Std Dev 0

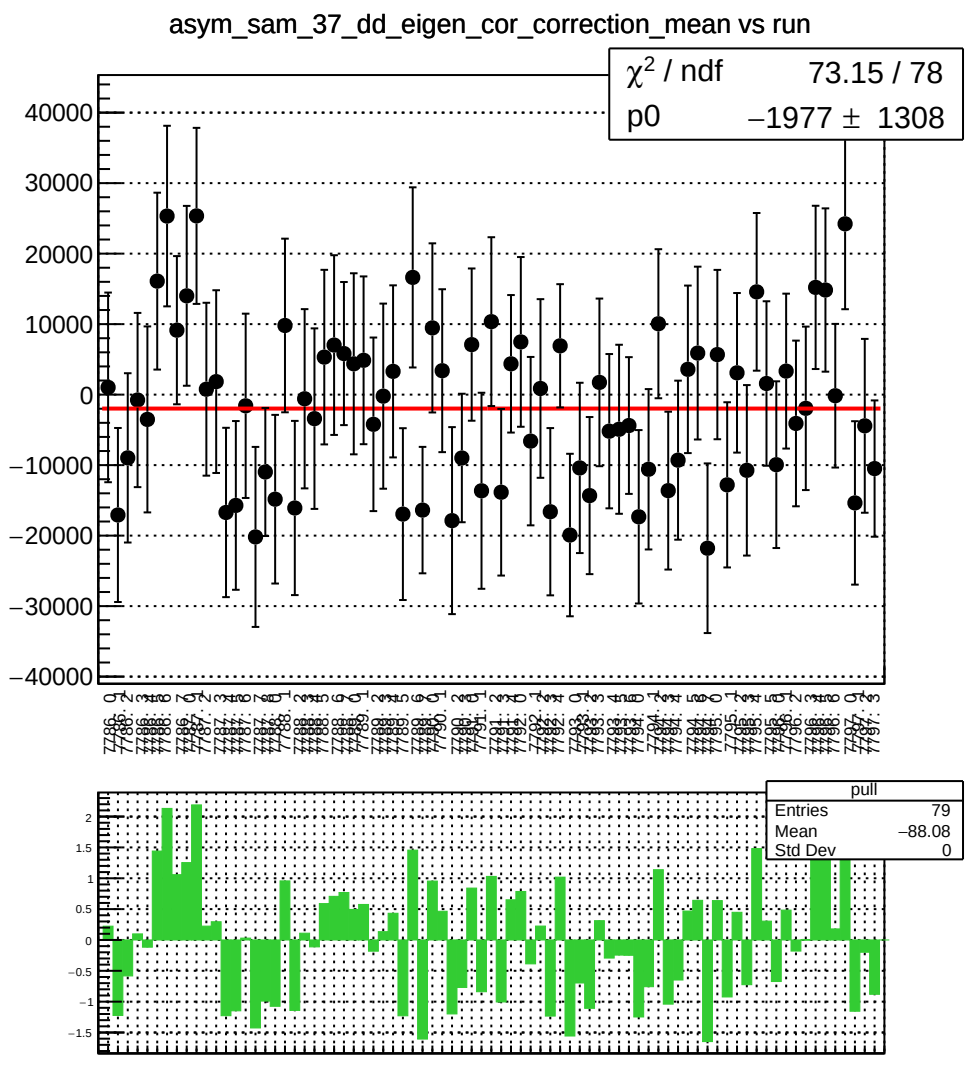

pull1D
Entries 79
Mean 0.007817
Std Dev 0.9622

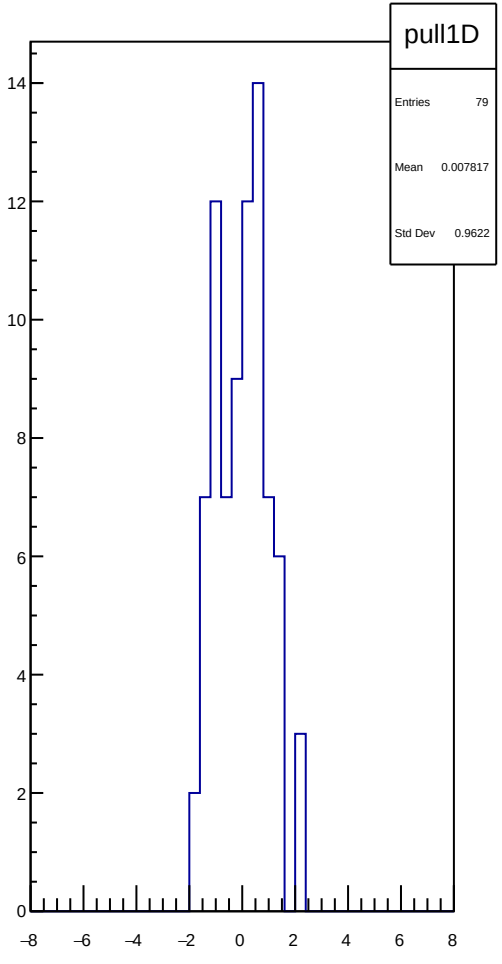

asym_sam_37_dd_cor_correction_rms vs run
χ^2 / ndf 3660 / 78
p0 1144 ± 0.9246
1350
1300
1250
1200
1150
1100
1050
1000

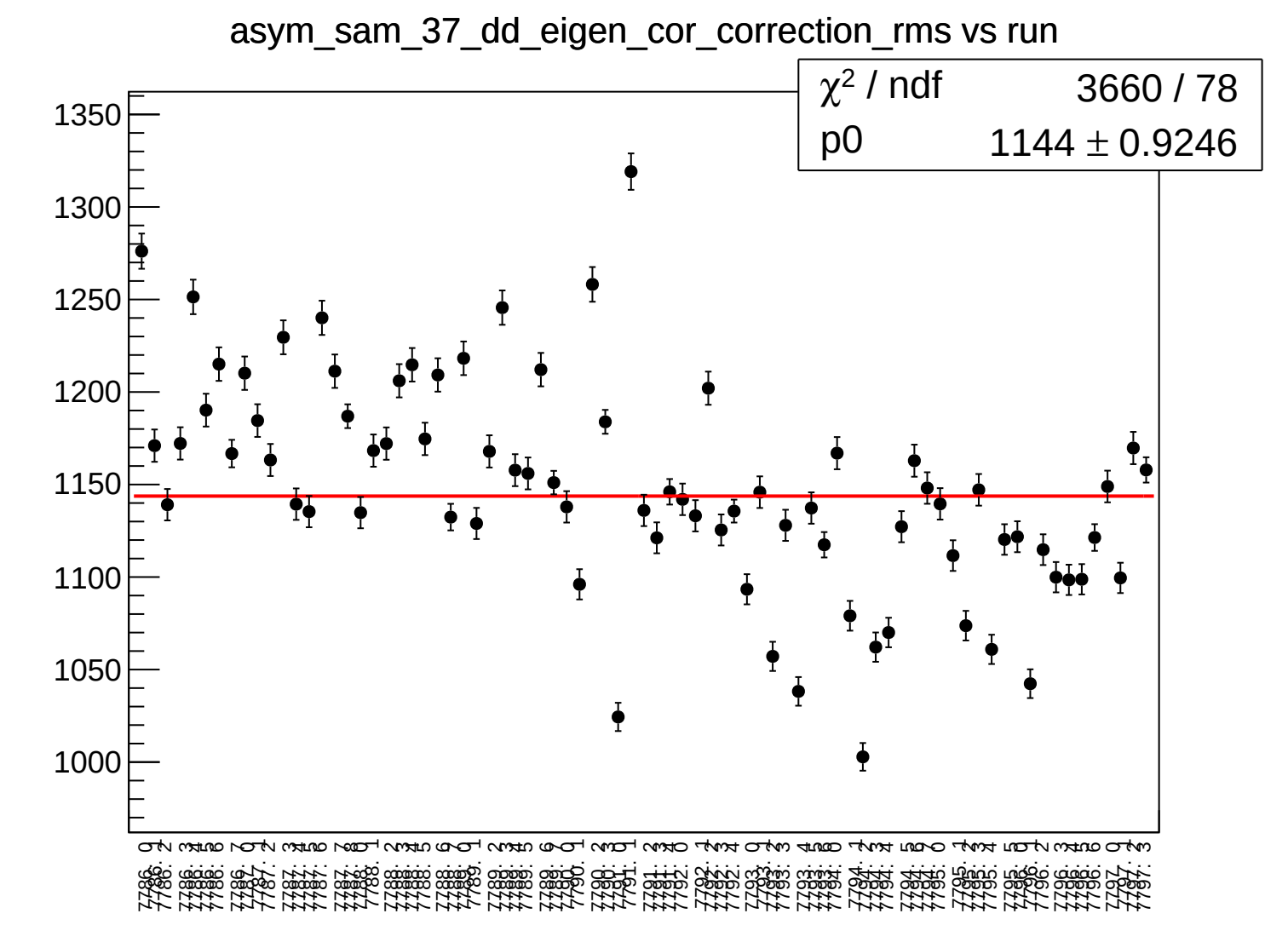

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 57.99 / 78
p0 −198.8 ± 175.9
pull
Entries 79
Mean 1496
Std Dev 0

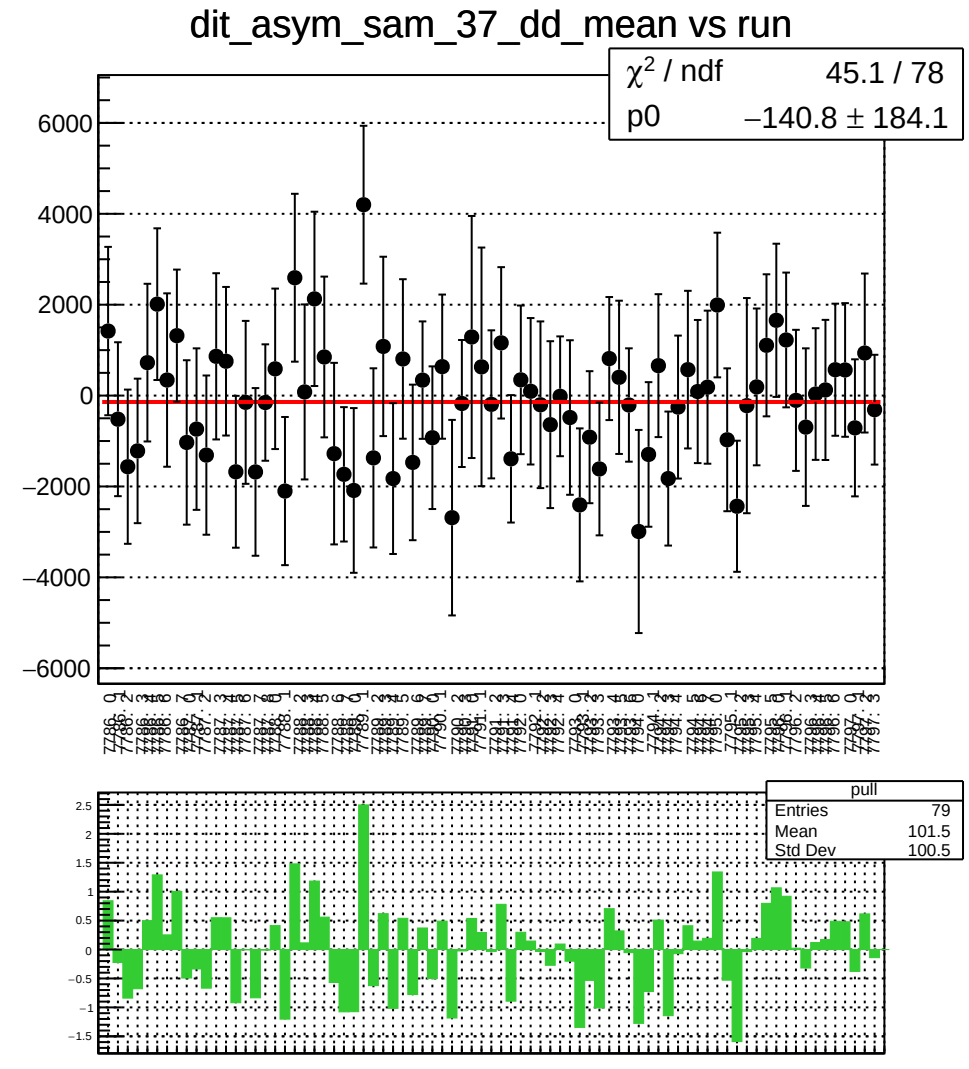

pull1D
Entries 79
Mean −0.0007148
Std Dev 0.8568

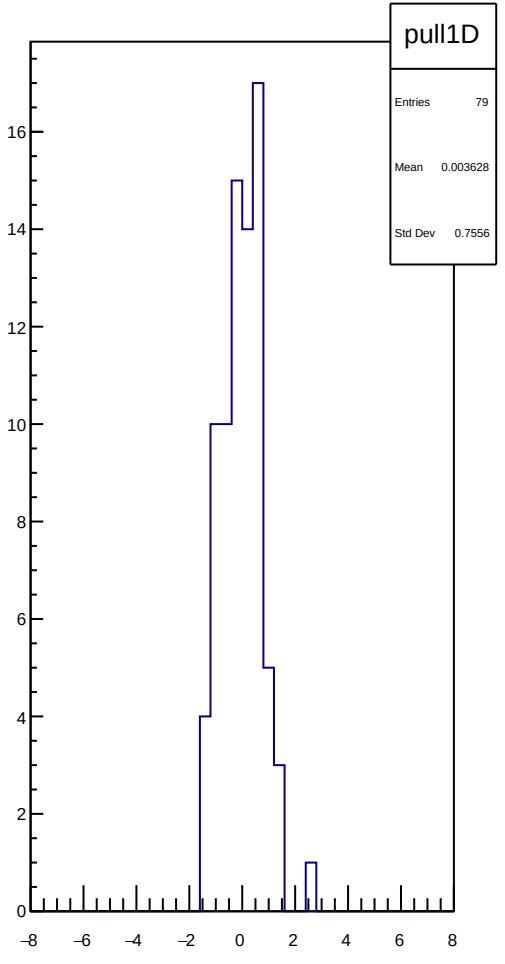

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.463e+04 / 78
p0 153.3 ± 0.1244
260
240
220
200
180
160
140
120

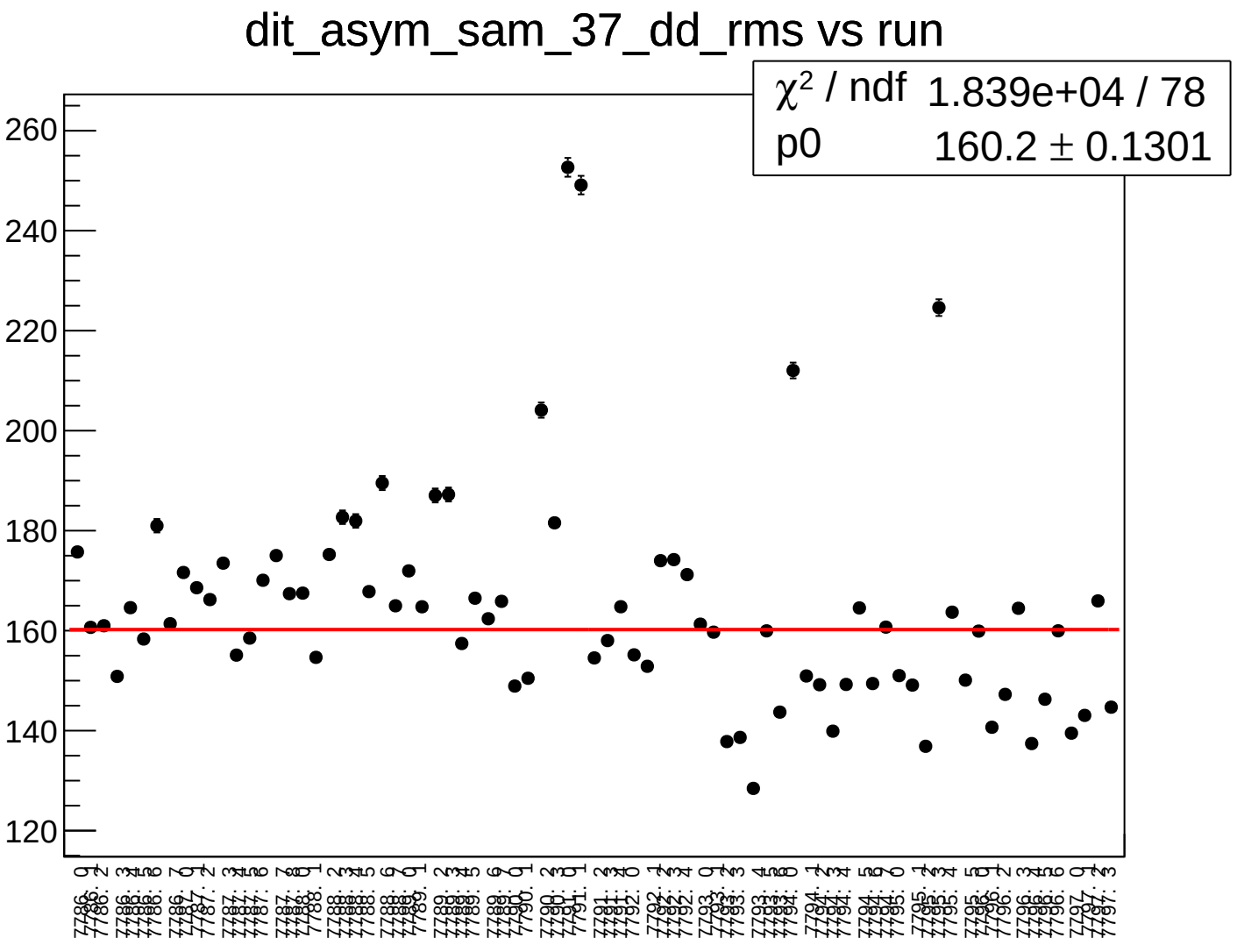

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.15 / 78
p0 −1977 ± 1308
pull
Entries 79
Mean −88.08
Std Dev 0

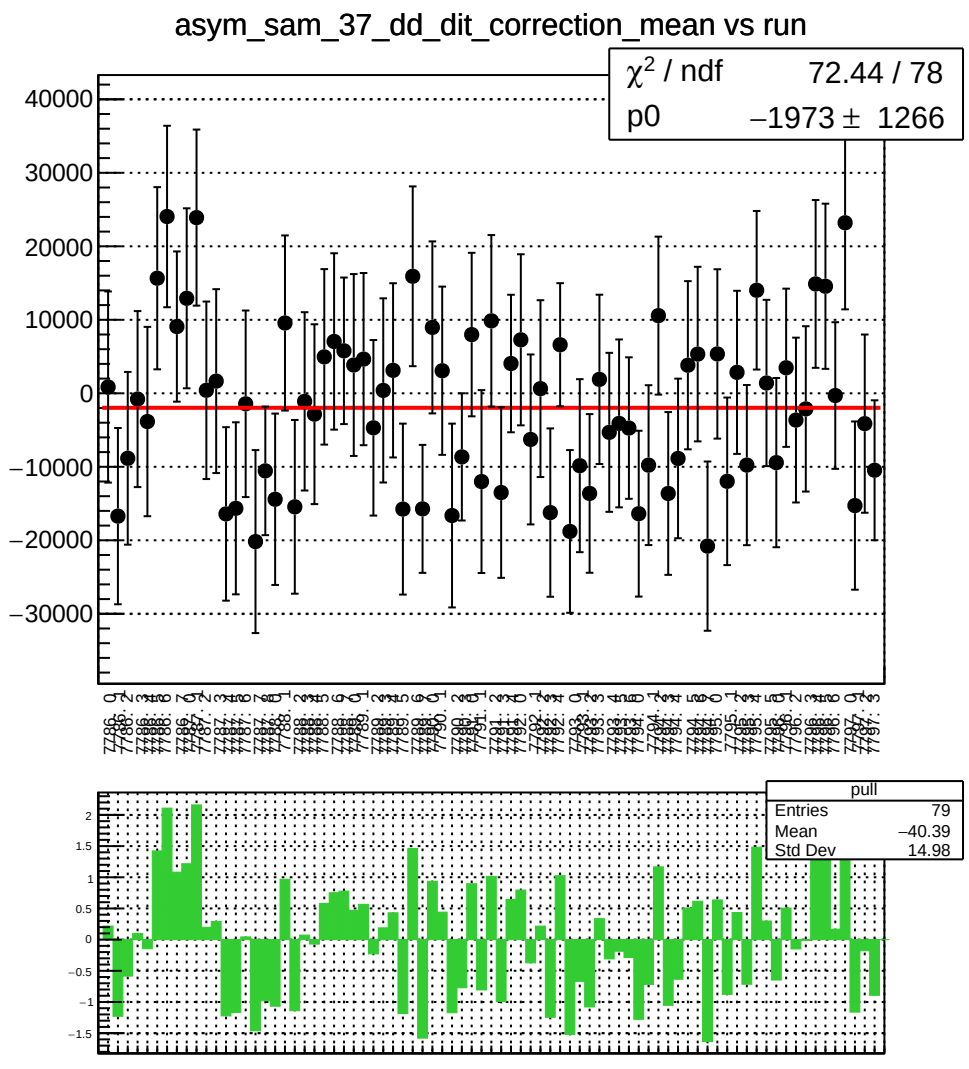

pull1D
Entries 79
Mean 0.007817
Std Dev 0.9622

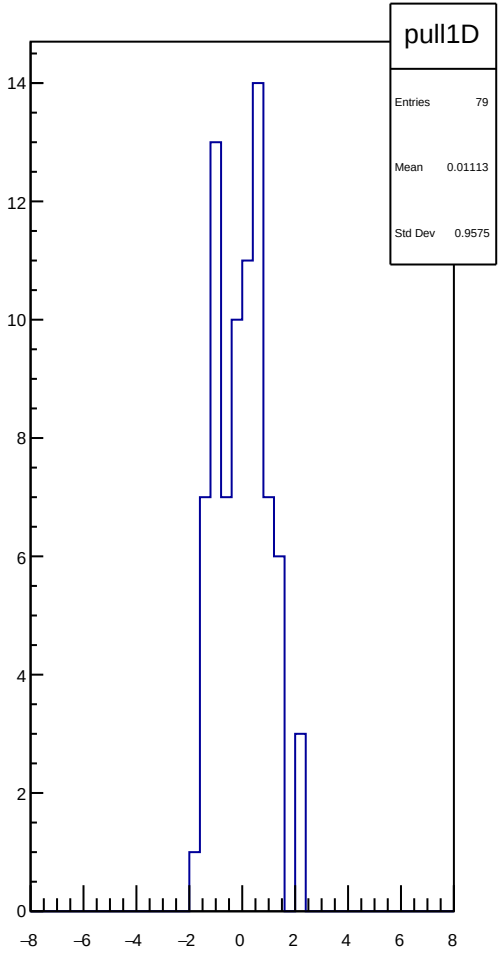

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 3660 / 78
p0 1144 ± 0.9246
1350
1300
1250
1200
1150
1100
1050
1000

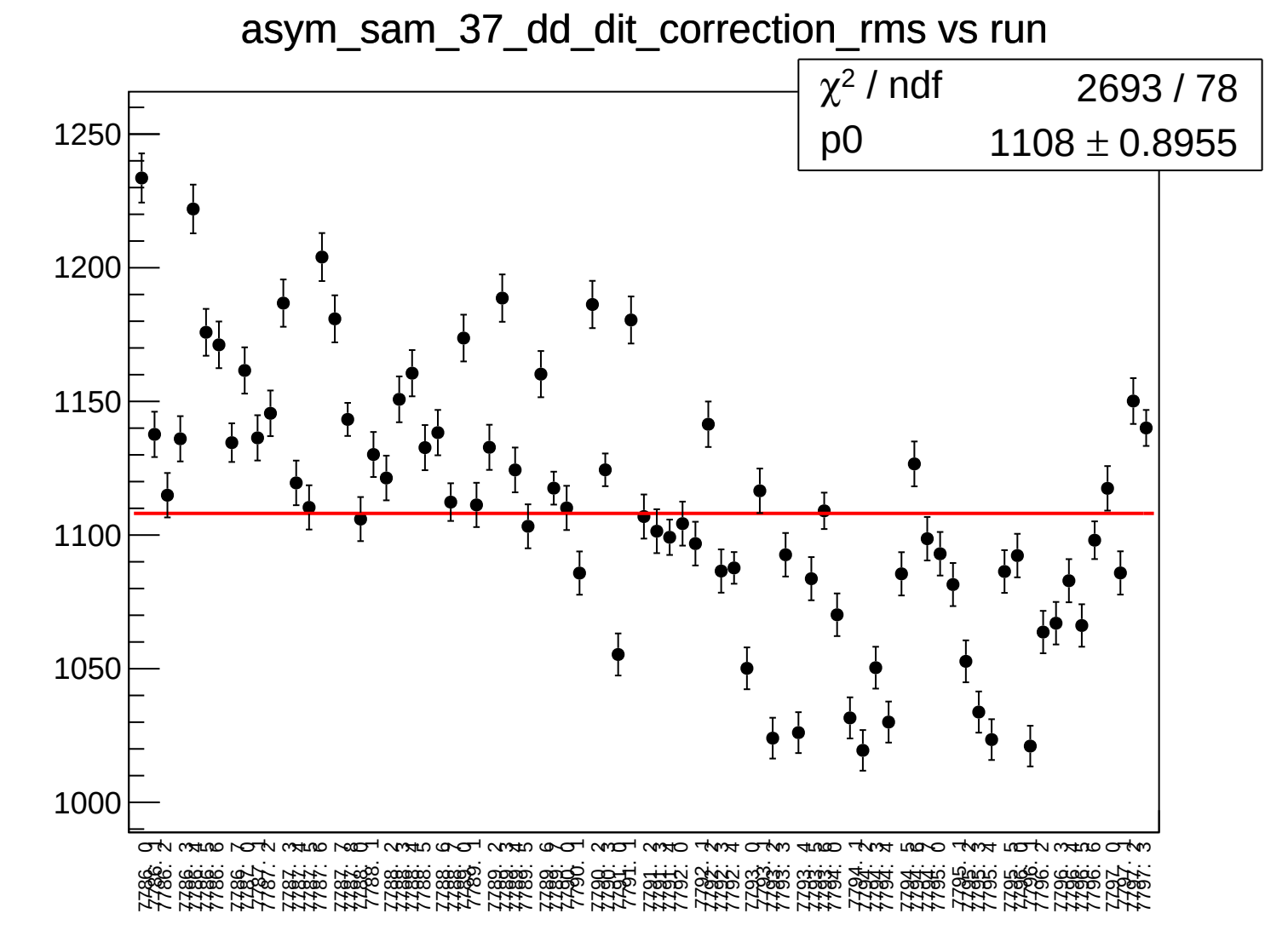

dit_asym_sam_37_dd_mean vs run
χ² / ndf 45.1 / 78
p0 −140.8 ± 184.1
pull
Entries 79
Mean 101.5
Std Dev 100.5

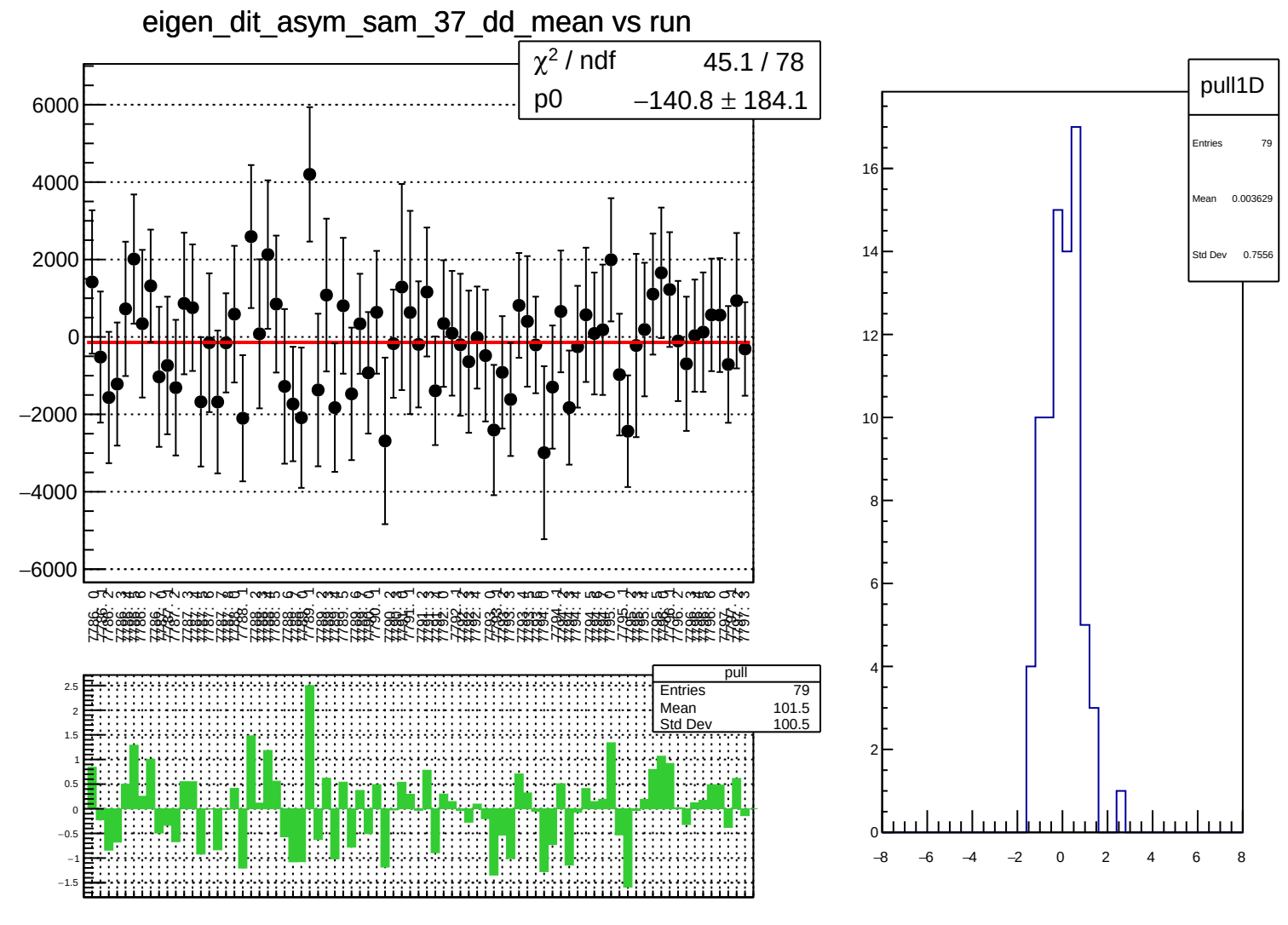

pull1D
Entries 79
Mean 0.003628
Std Dev 0.7556

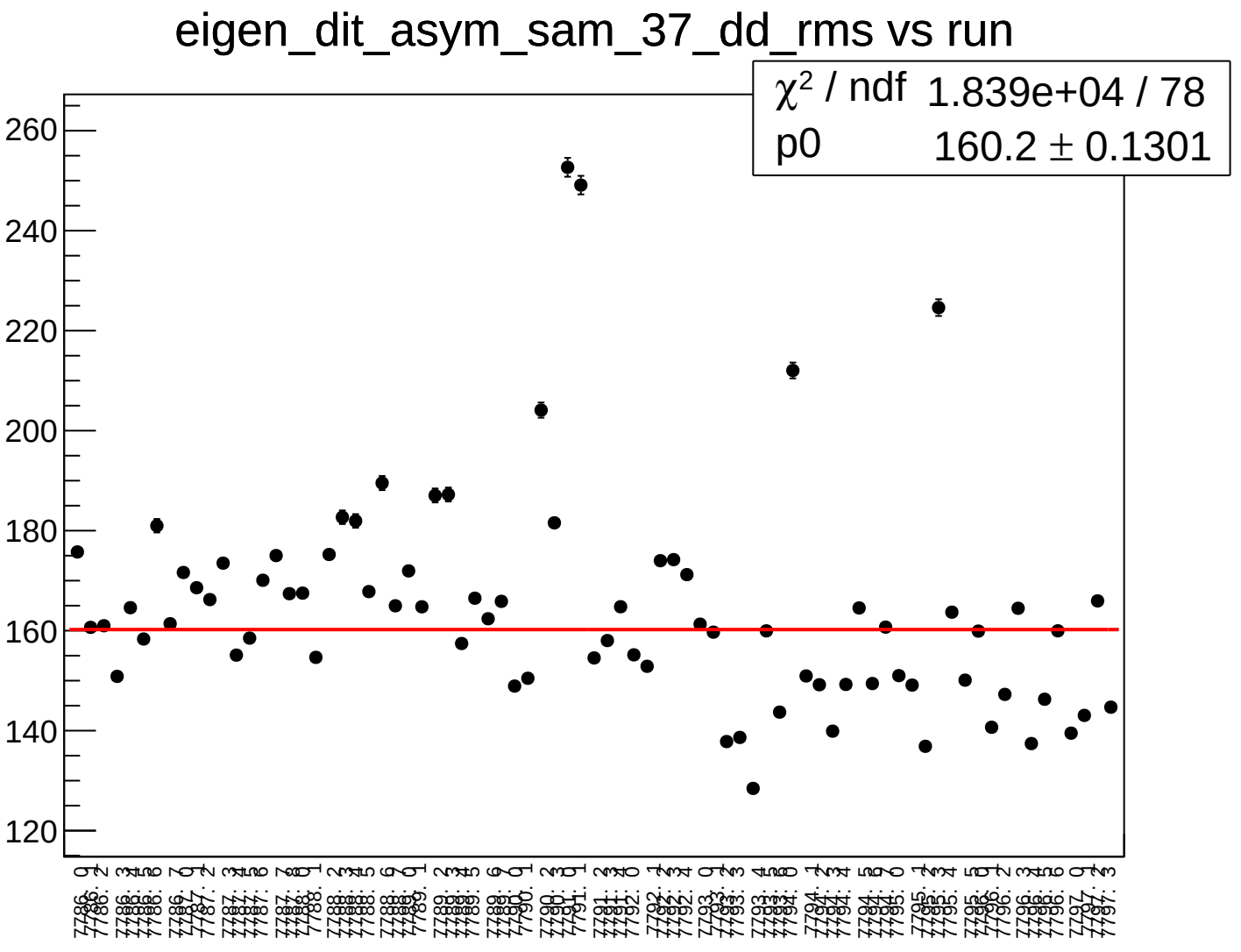

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.839e+04 / 78
p0 160.2 ± 0.1301
260
240
220
200
180
160
140
120

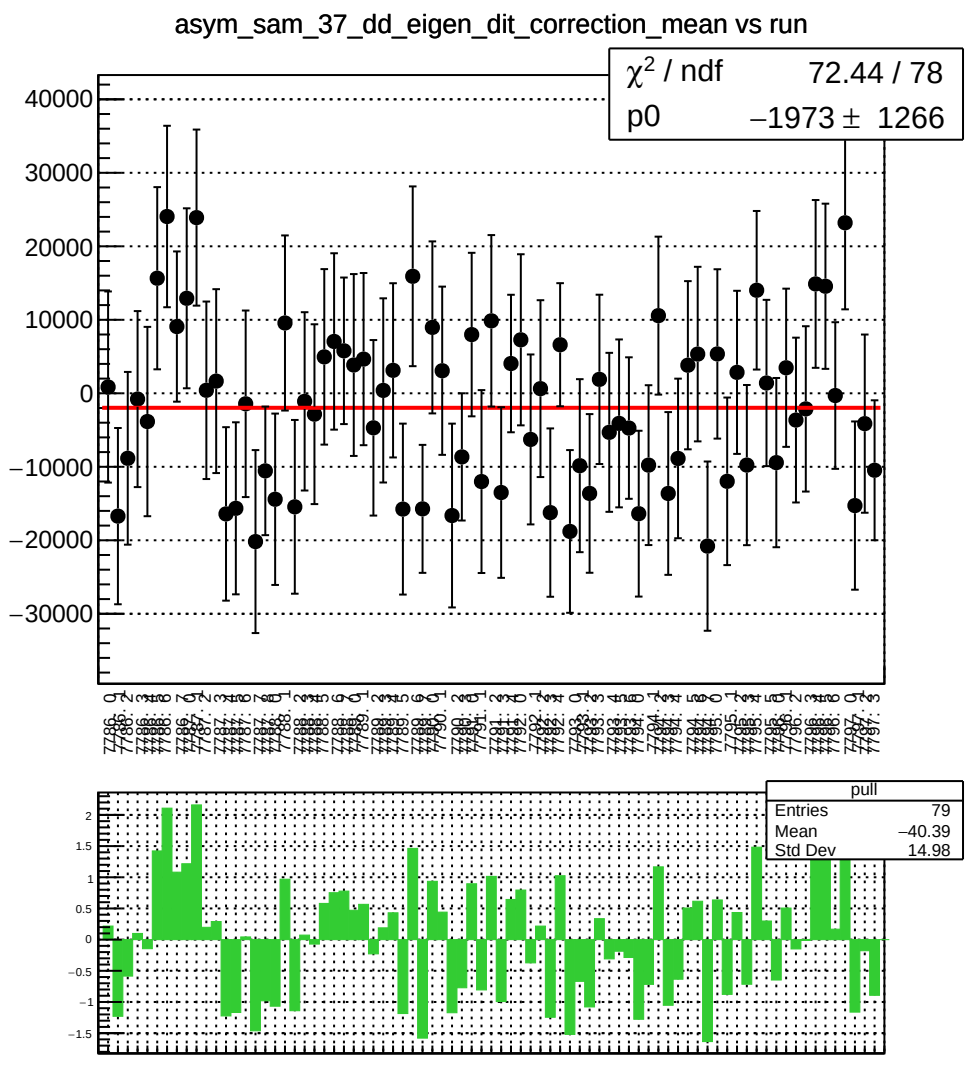

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 72.44 / 78
p0 −1973 ± 1266
pull
Entries 79
Mean −40.39
Std Dev 14.98

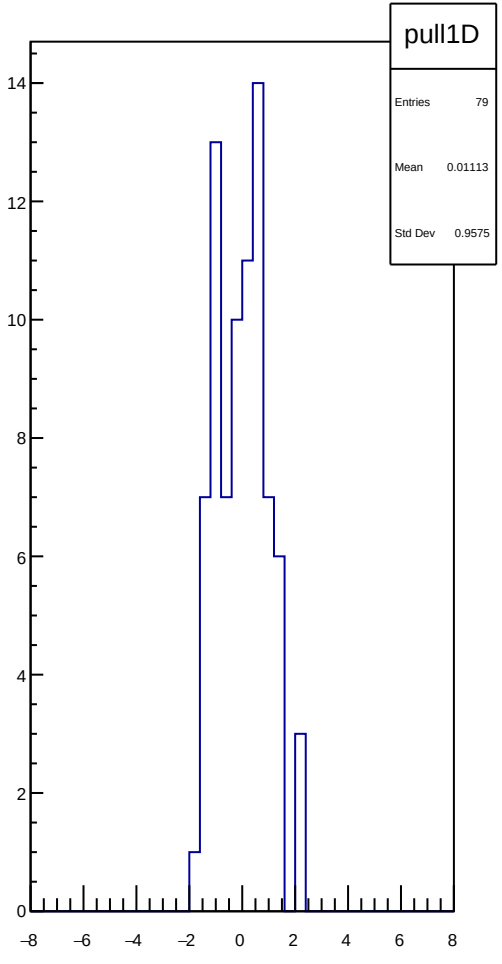

pull1D
Entries 79
Mean 0.01113
Std Dev 0.9575

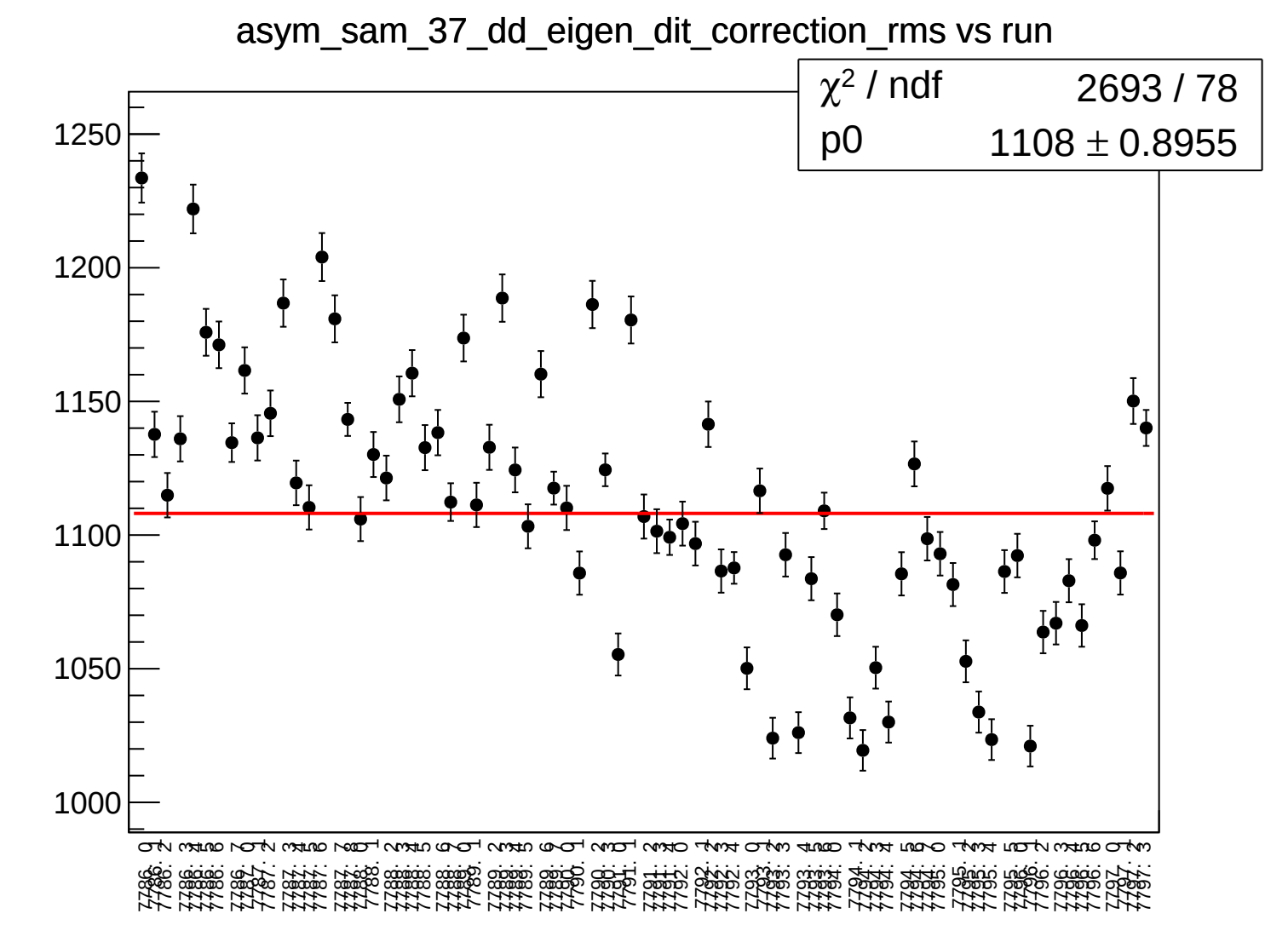

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2693 / 78
p0 1108 ± 0.8955
1250
1200
1150
1100
1050
1000

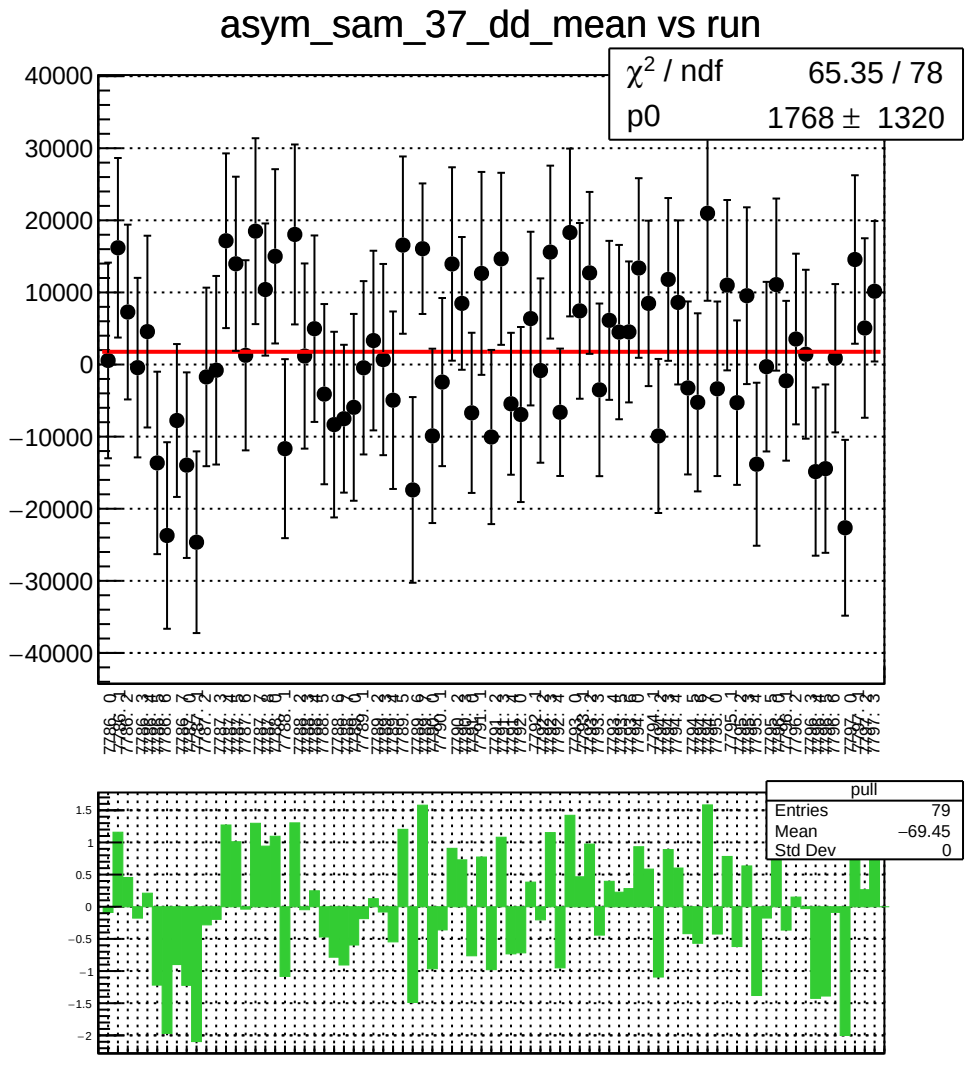

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 45.1 / 78
p0 −140.8 ± 184.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 79
Mean 101.5
Std Dev 100.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 79
Mean 0.003629
Std Dev 0.7556
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

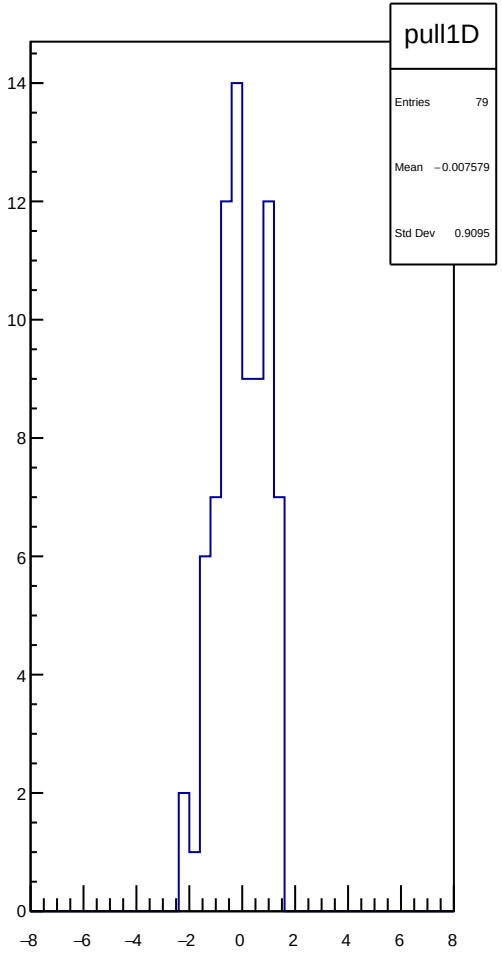

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.839e+04 / 78
p0 160.2 ± 0.1301
260
240
220
200
180
160
140
120

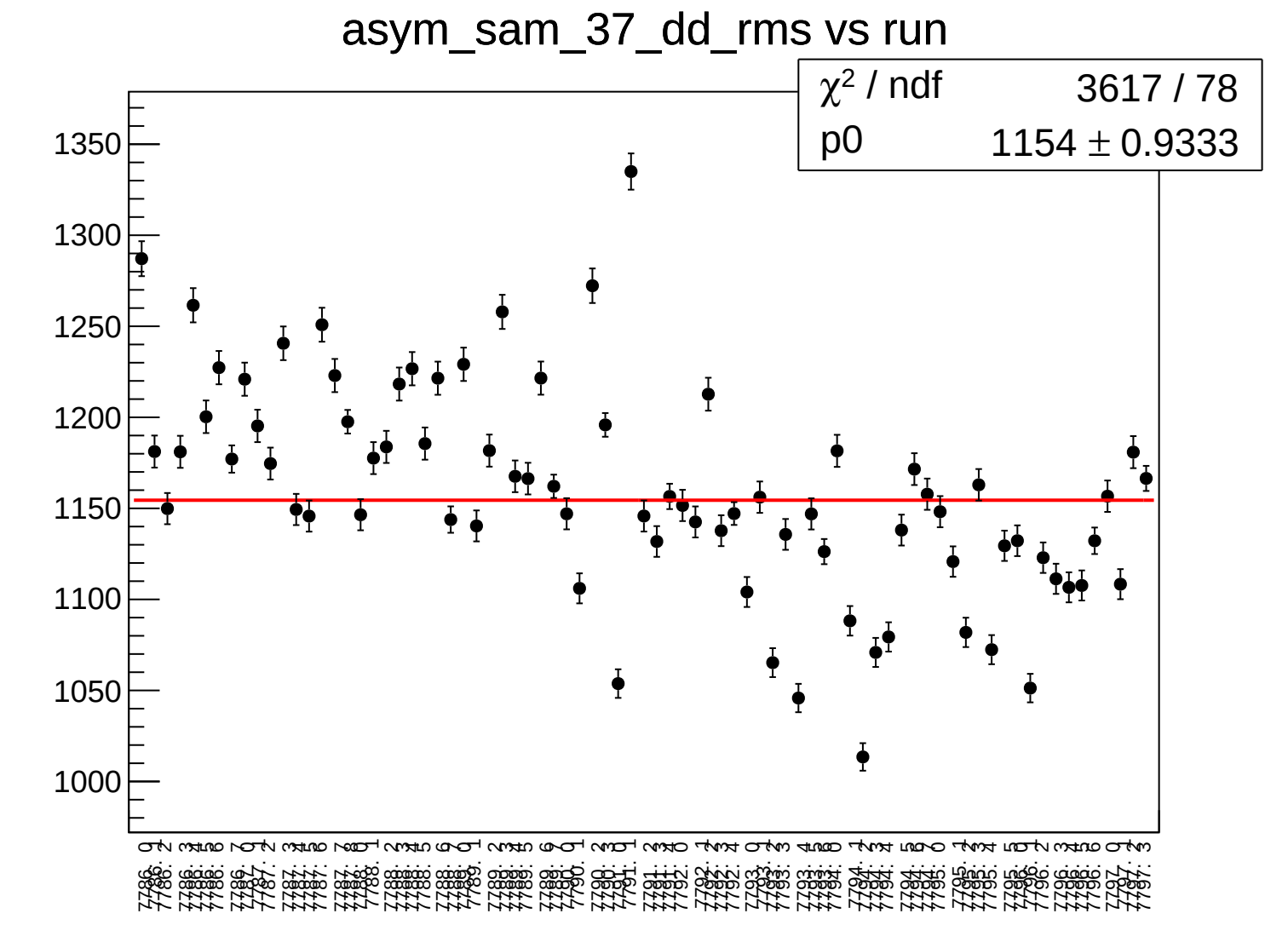

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.44 / 78
p0 −1973 ± 1266
pull
Entries 79
Mean −40.39
Std Dev 14.98

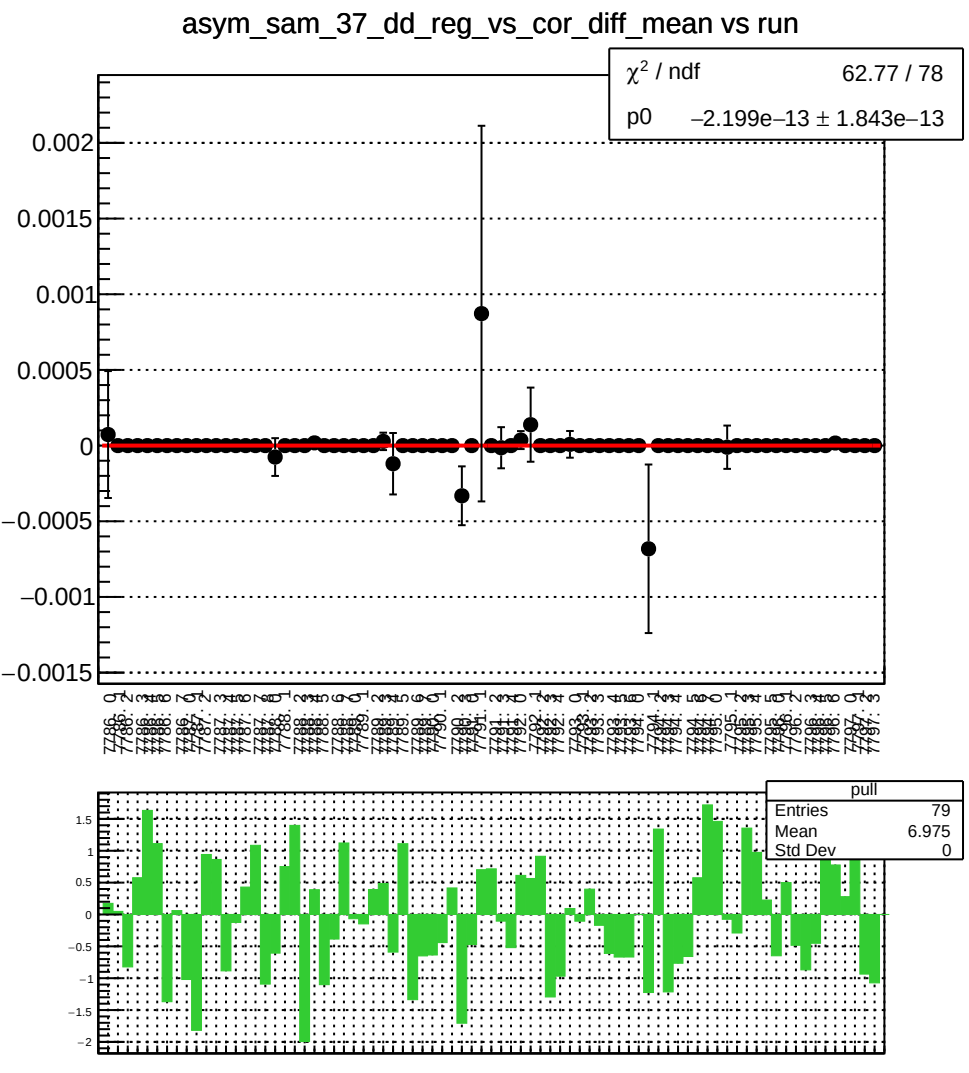

pull1D
Entries 79
Mean 0.01113
Std Dev 0.9575

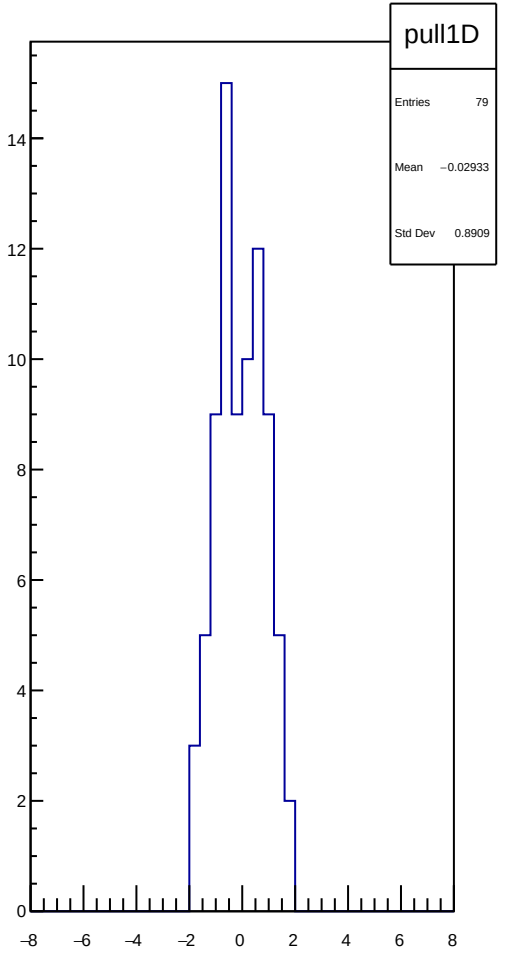

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2693 / 78
p0 1108 ± 0.8955
1250
1200
1150
1100
1050
1000

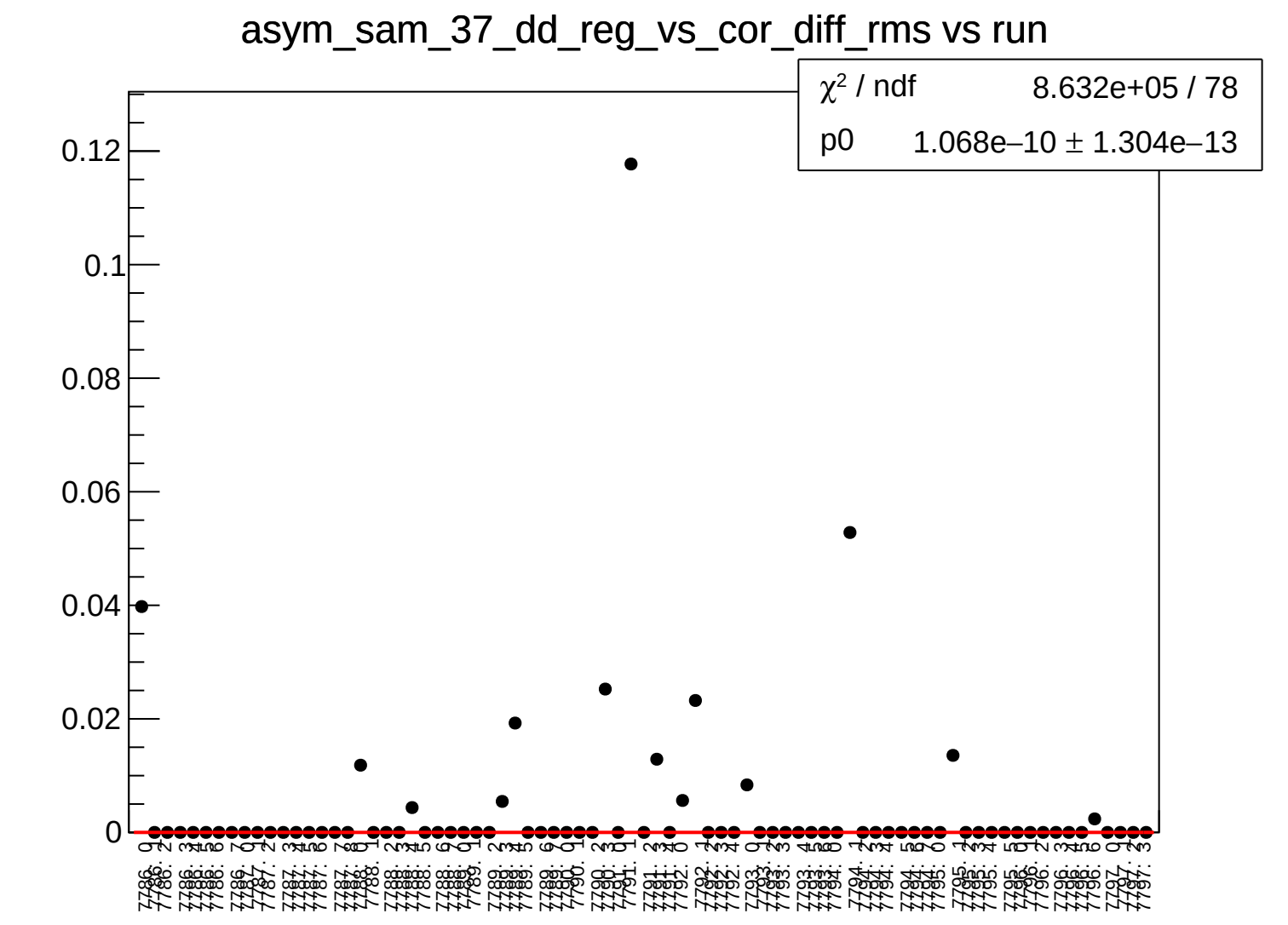

asym_sam_37_dd_mean vs run
χ² / ndf 65.35 / 78
p0 1768 ± 1320
pull
Entries 79
Mean −69.45
Std Dev 0

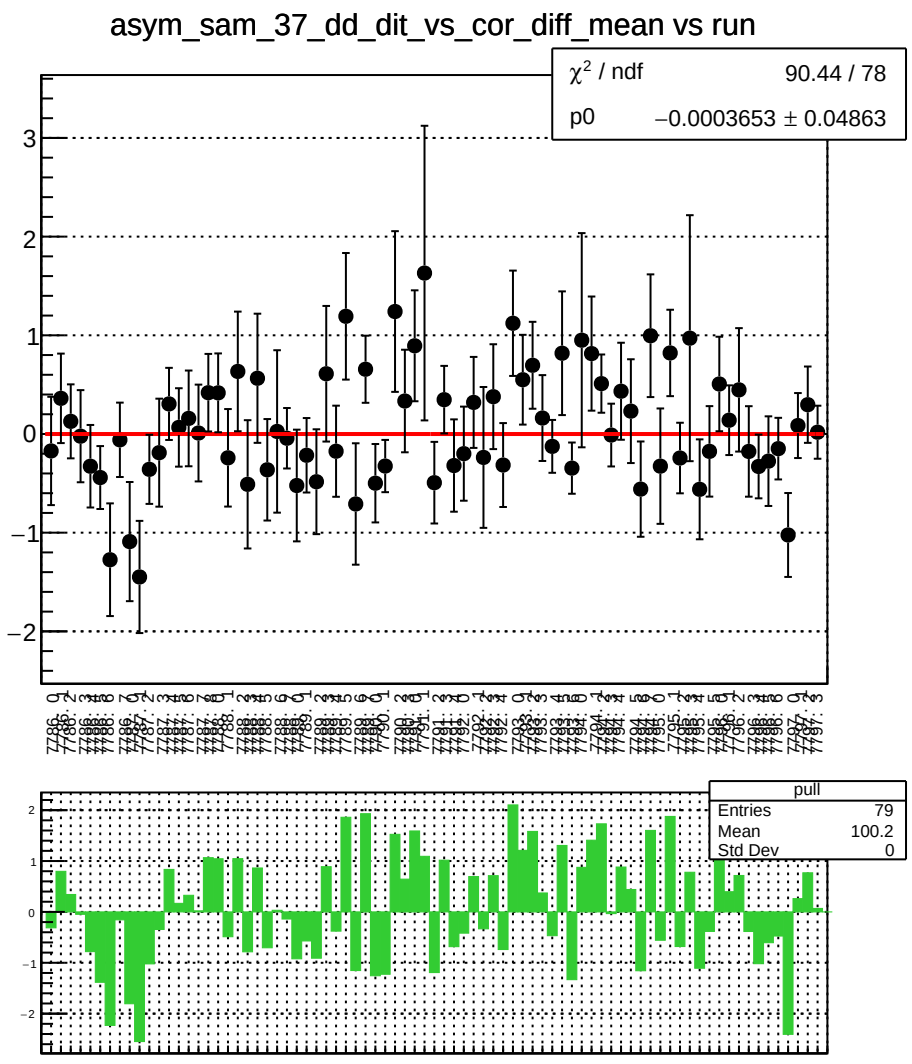

pull1D
Entries 79
Mean −0.007579
Std Dev 0.9095

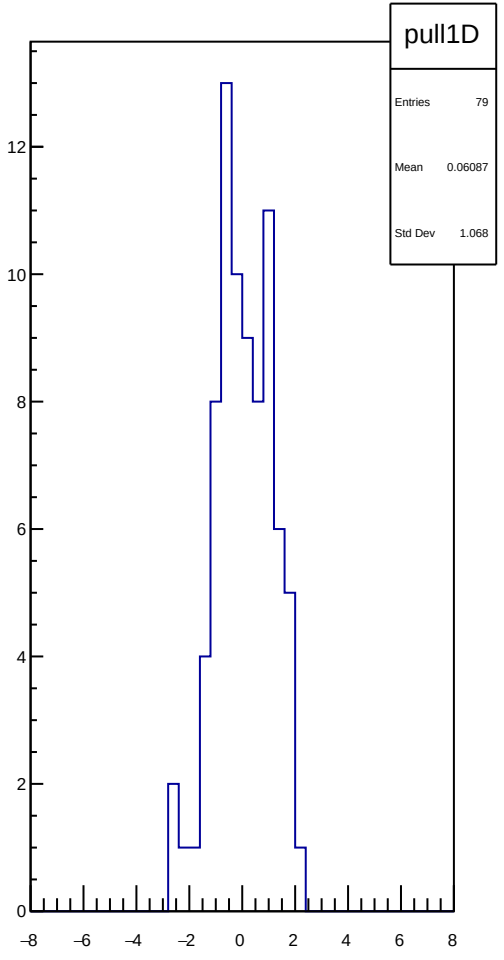

asym_sam_37_dd_rms vs run
χ² / ndf 3617 / 78
p0 1154 ± 0.9333
1350
1300
1250
1200
1150
1100
1050
1000

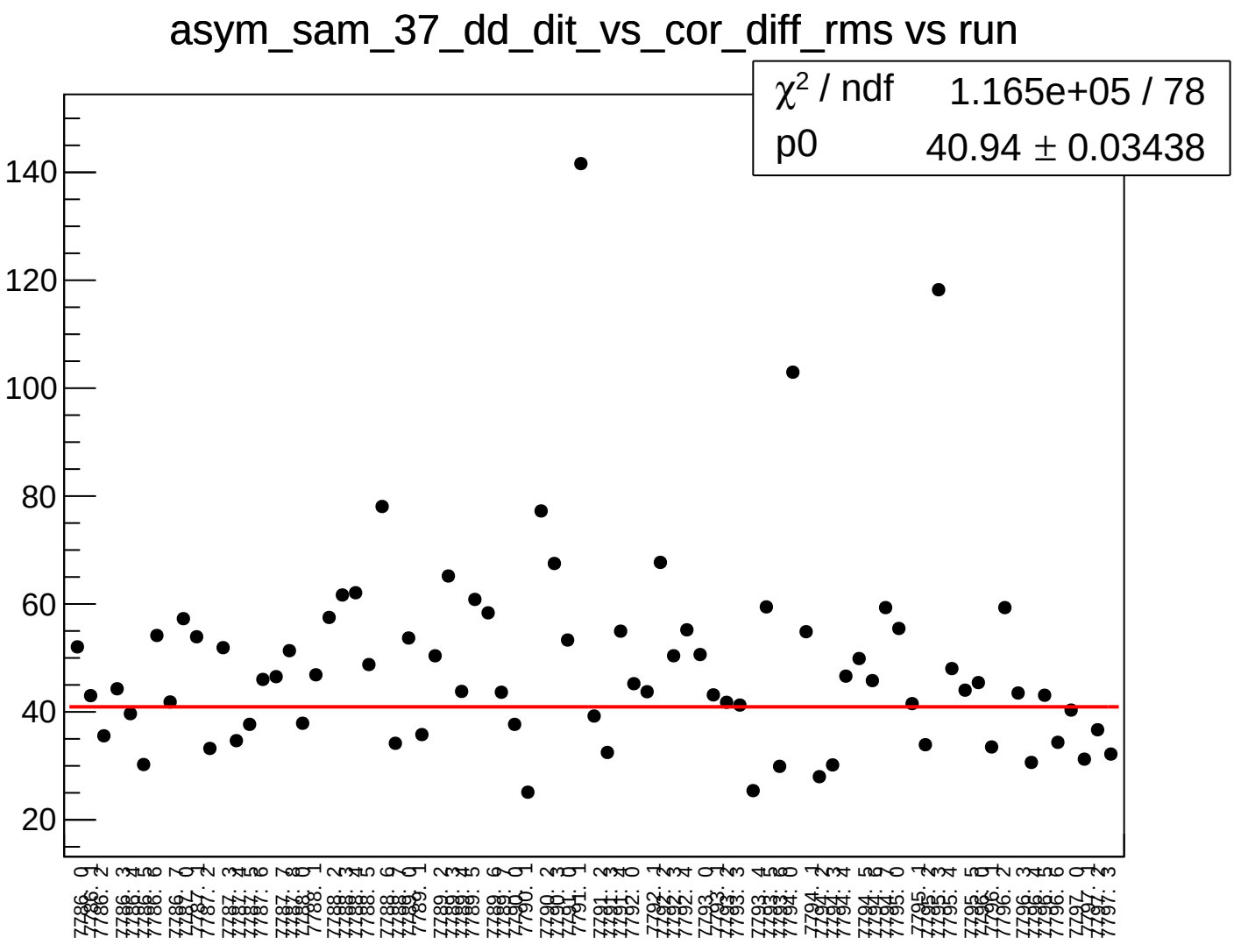

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 62.77 / 78
p0 −2.199e−13 ± 1.843e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 79
Mean 6.975
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

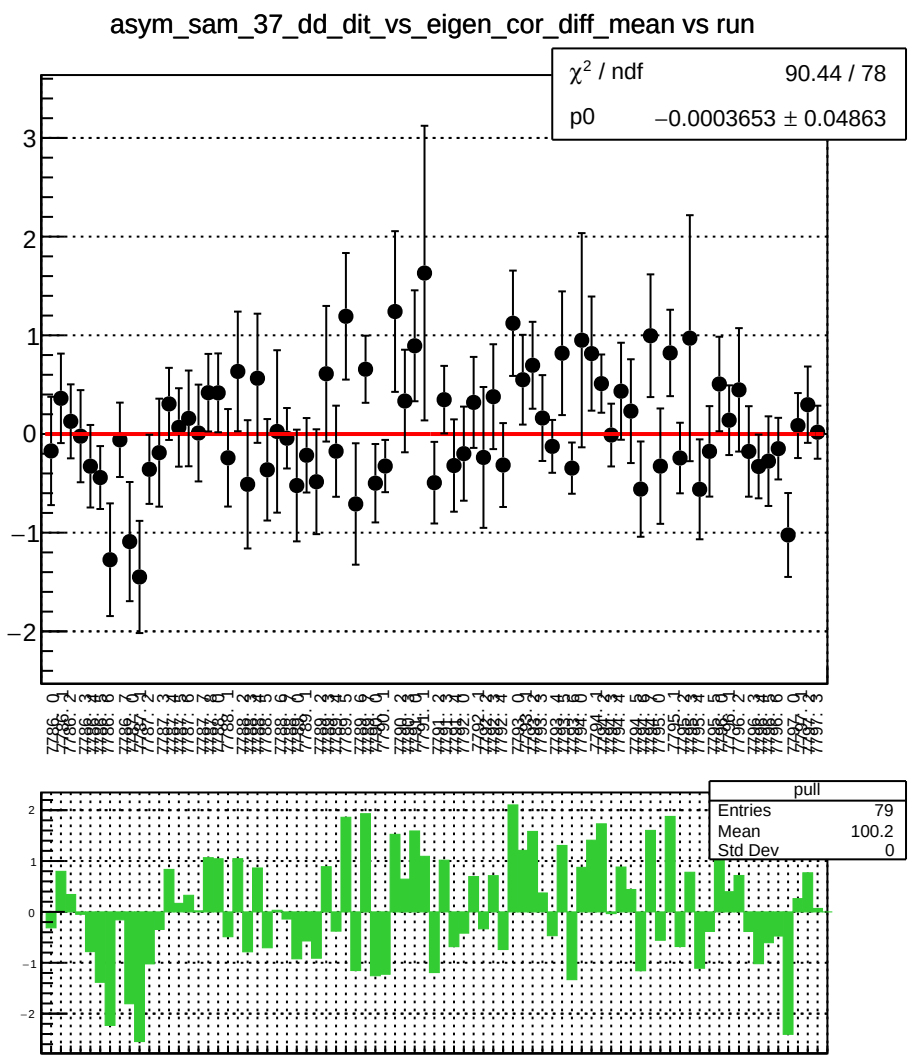

pull1D
Entries 79
Mean −0.02933
Std Dev 0.8909
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

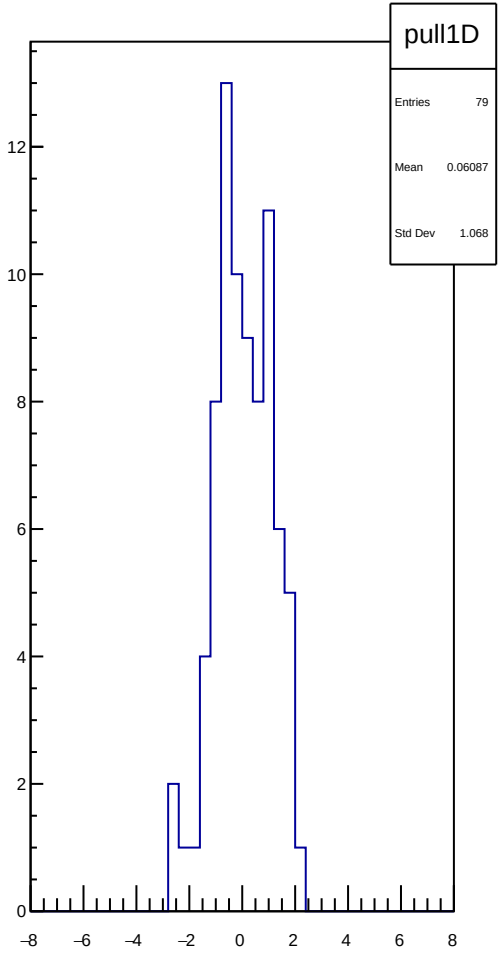

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.632e+05 / 78
p0 1.068e−10 ± 1.304e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

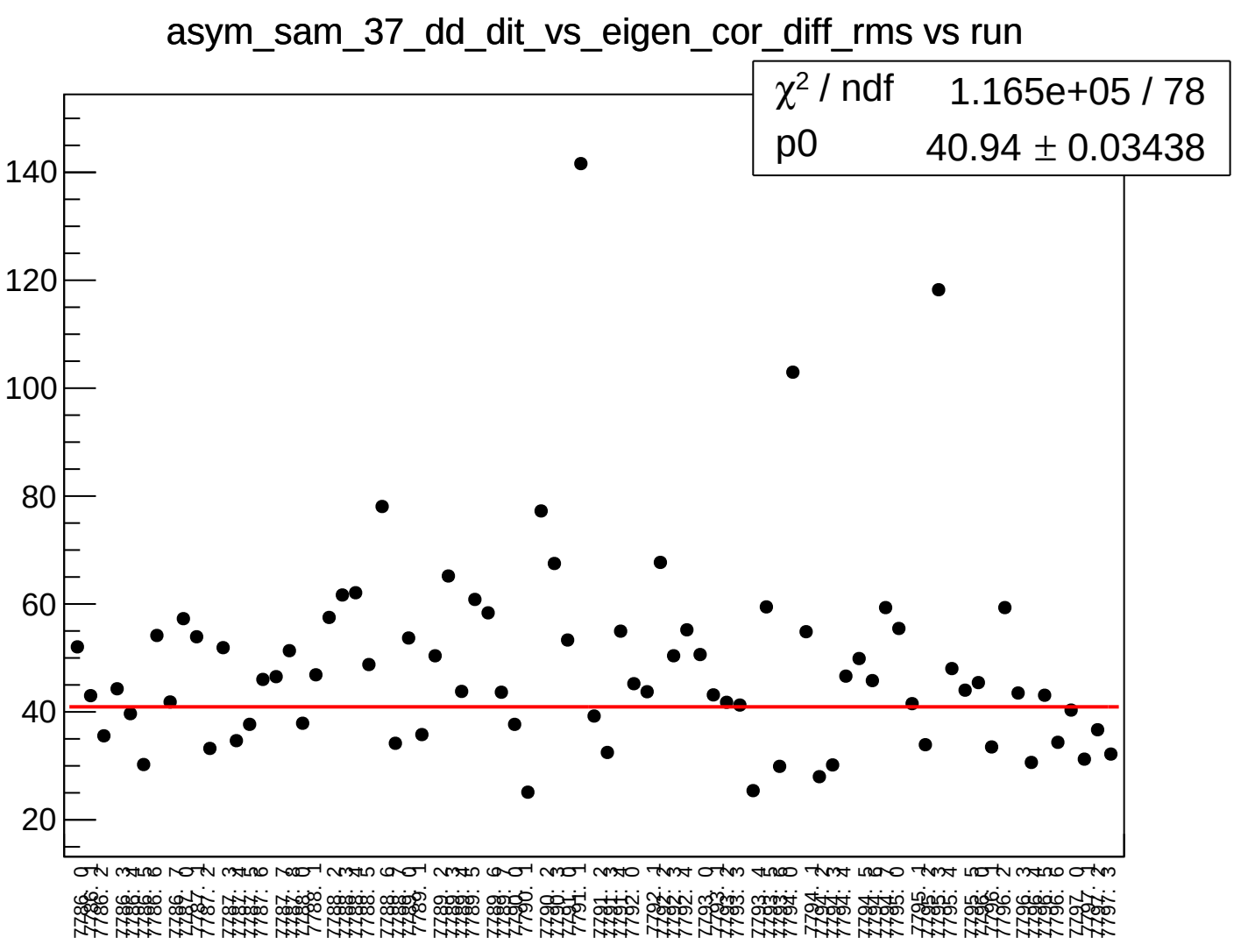

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.44 / 78
p0 −0.0003653 ± 0.04863
pull
Entries 79
Mean 100.2
Std Dev 0

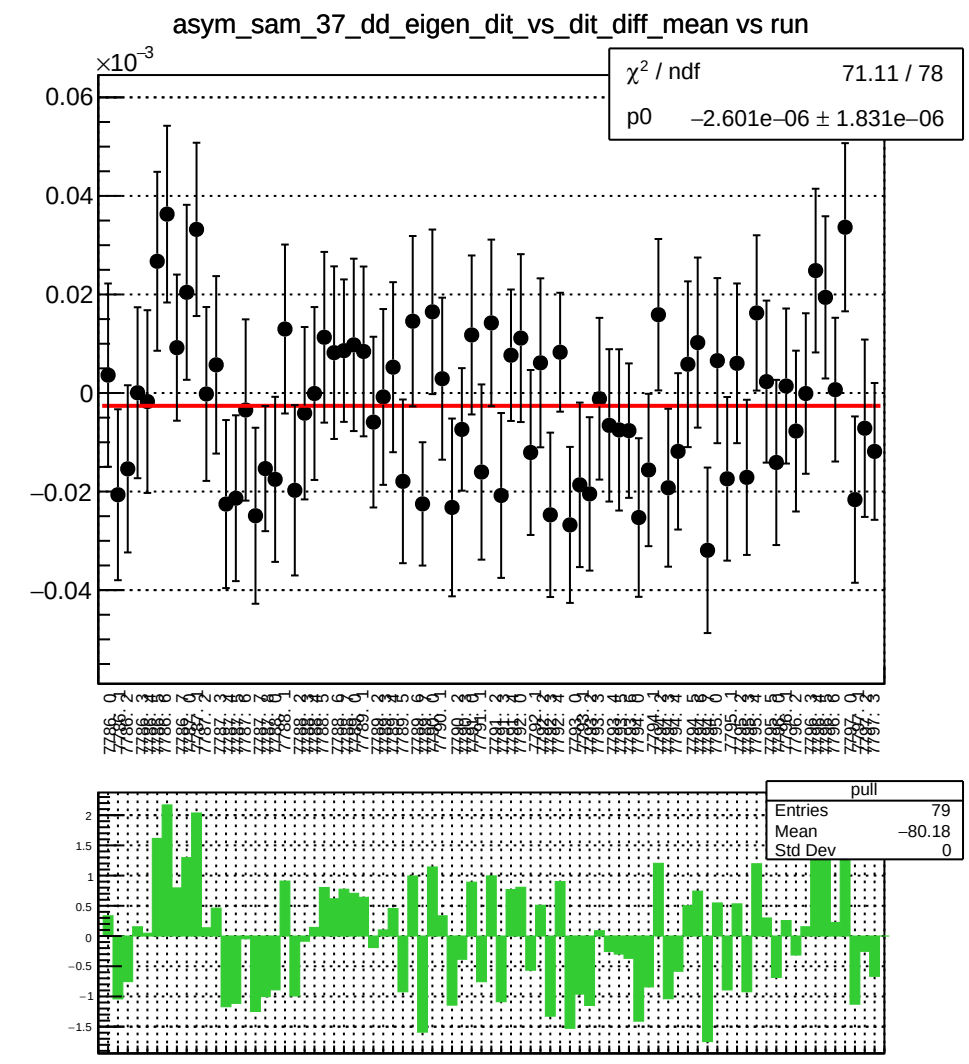

pull1D
Entries 79
Mean 0.06087
Std Dev 1.068

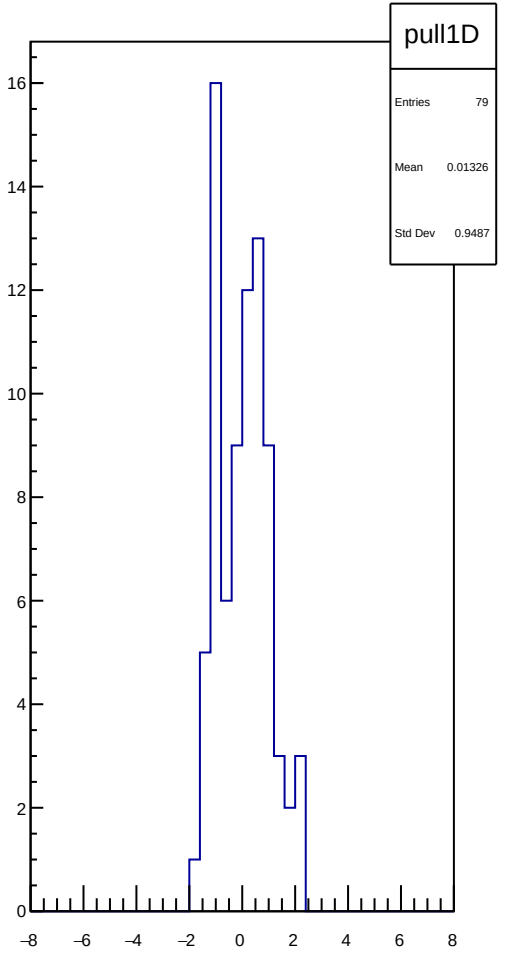

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.165e+05 / 78
p0 40.94 ± 0.03438
140
120
100
80
60
40
20

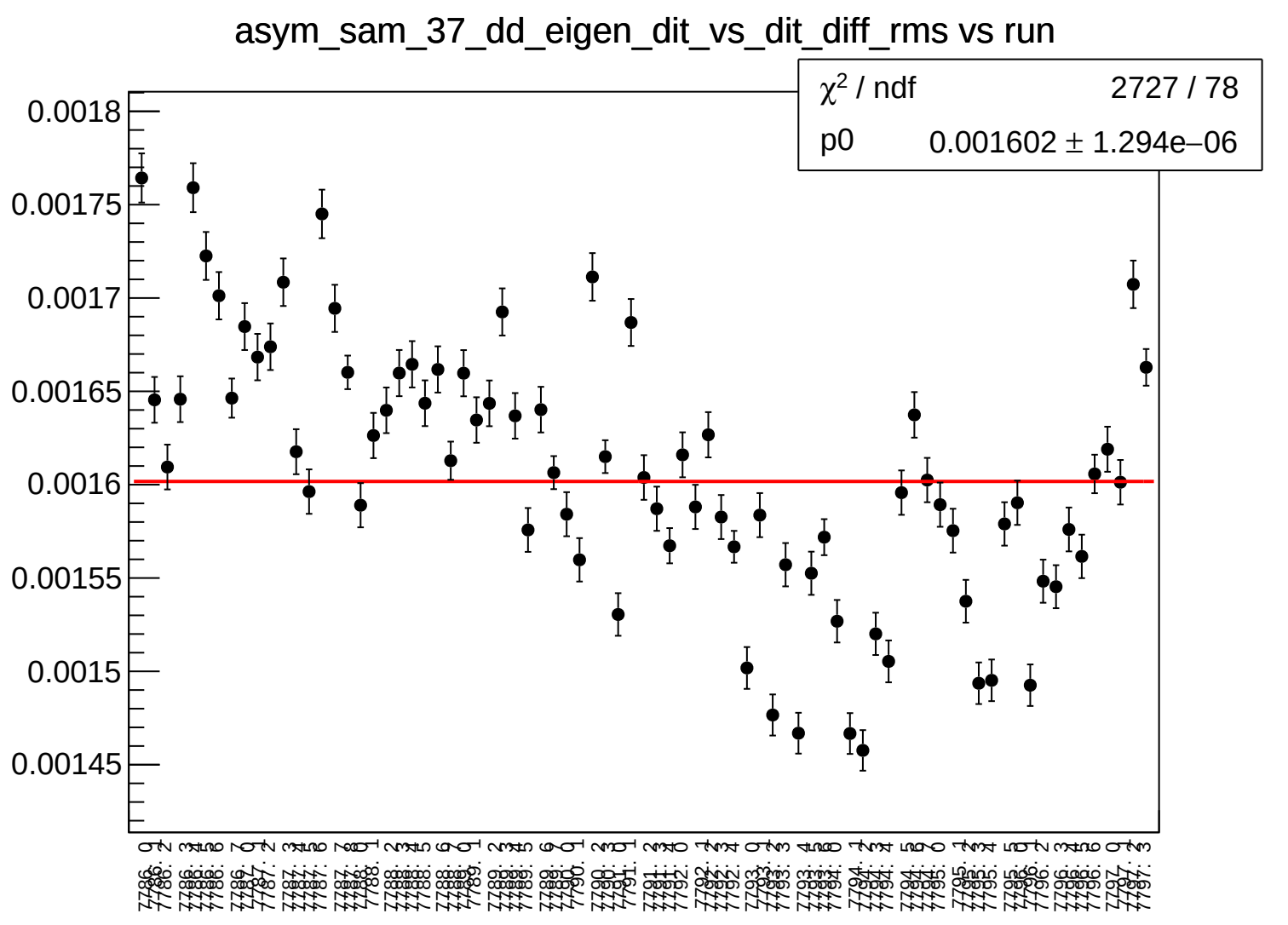

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.44 / 78
p0 −0.0003653 ± 0.04863
pull
Entries 79
Mean 100.2
Std Dev 0

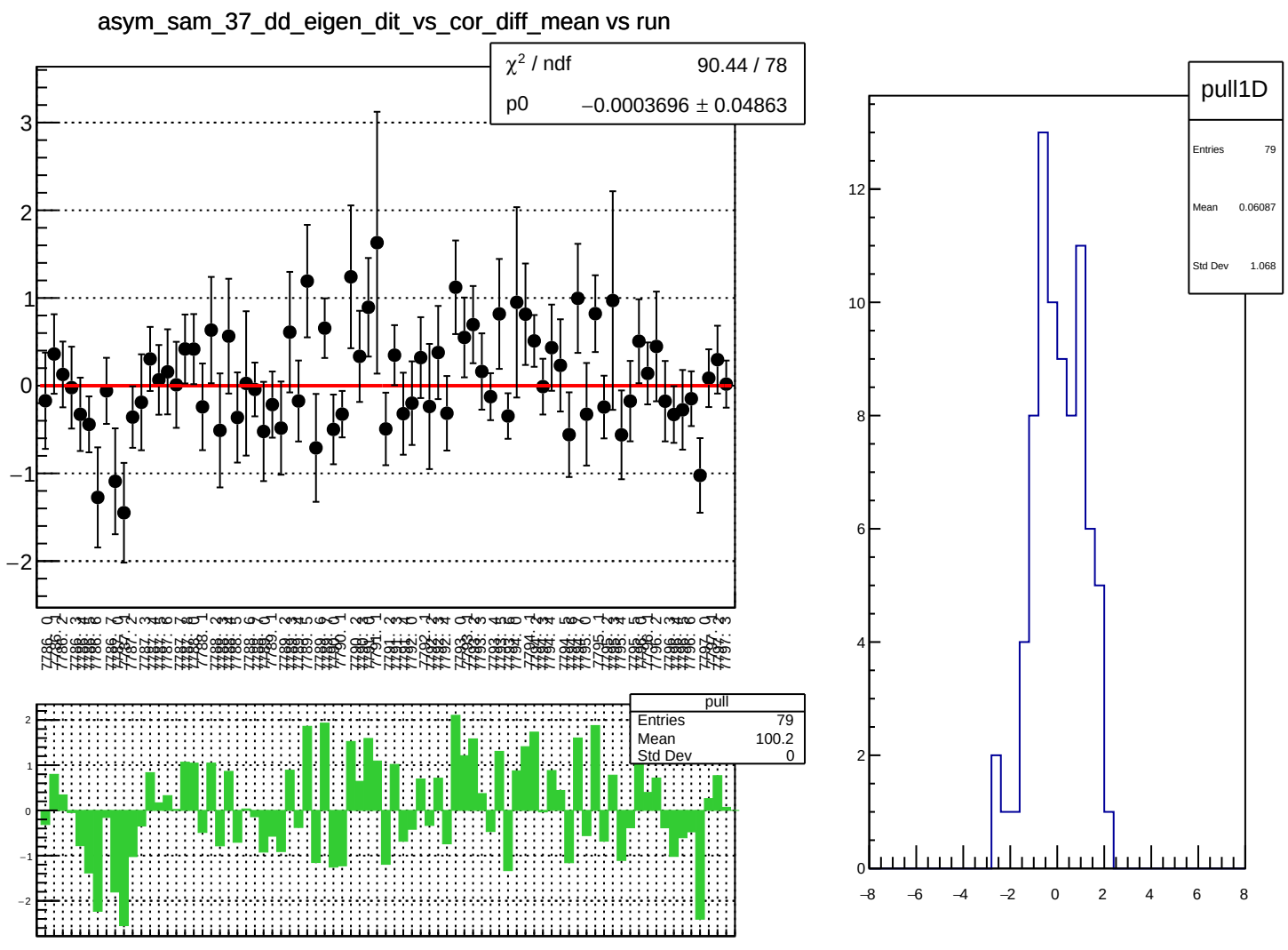

pull1D
Entries 79
Mean 0.06087
Std Dev 1.068

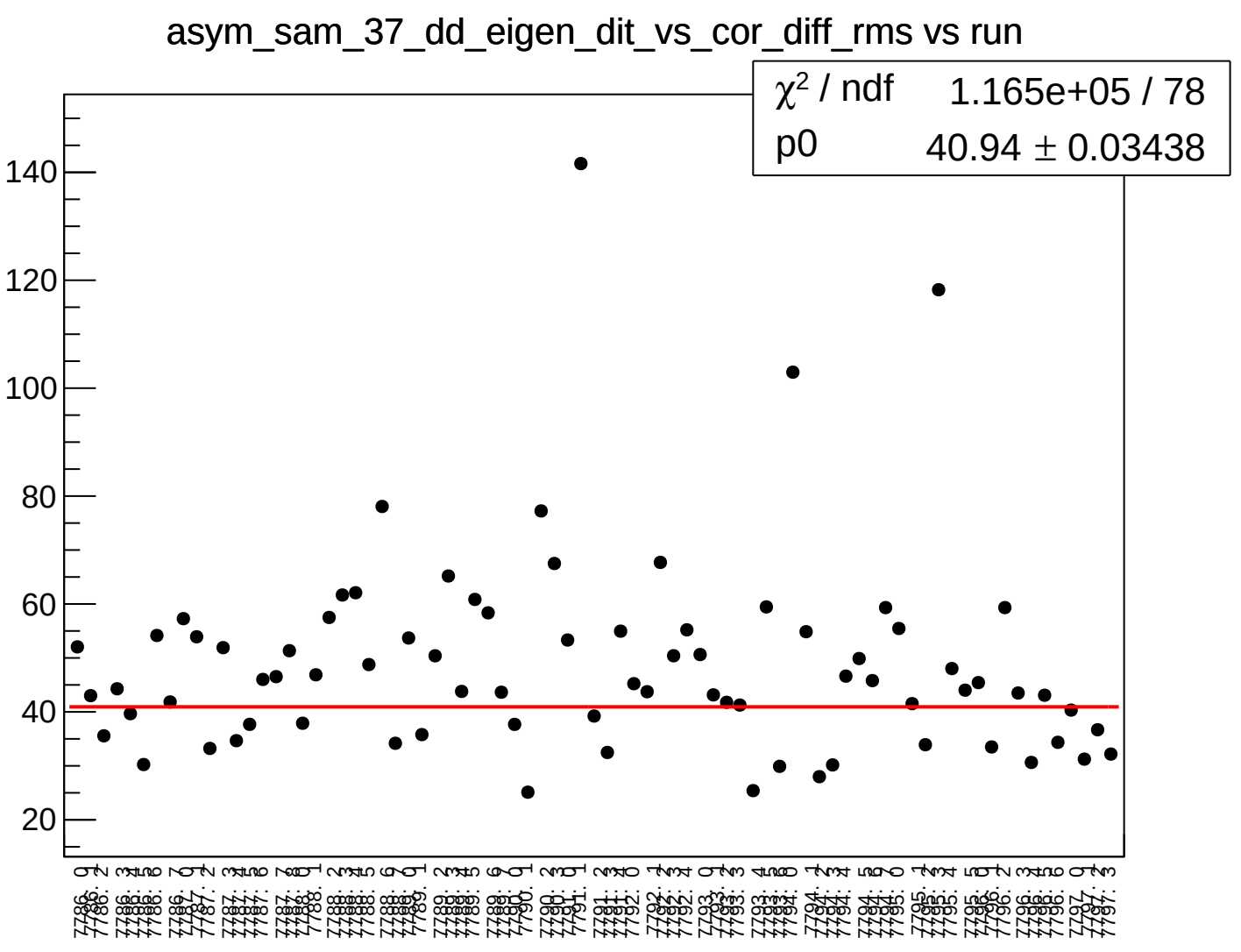

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 78
p0 40.94 ± 0.03438
140
120
100
80
60
40
20

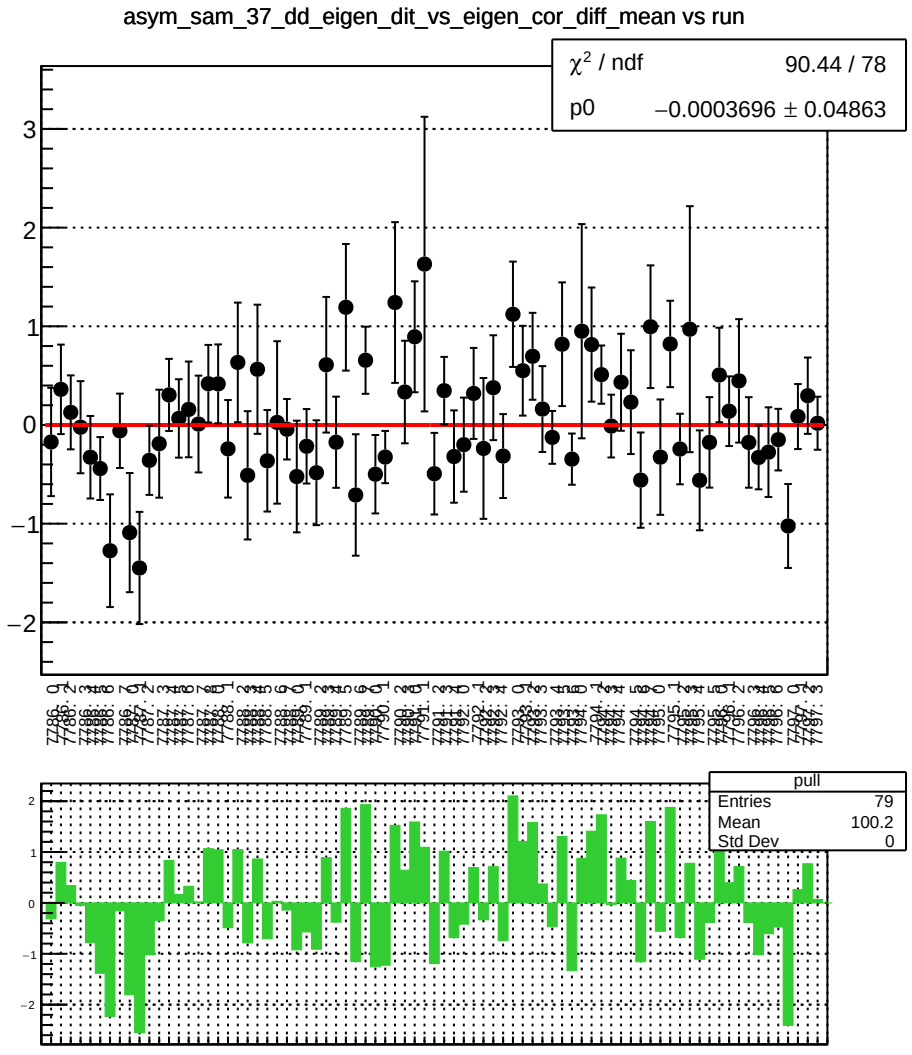

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.11 / 78
p0 −2.601e−06 ± 1.831e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 79
Mean −80.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

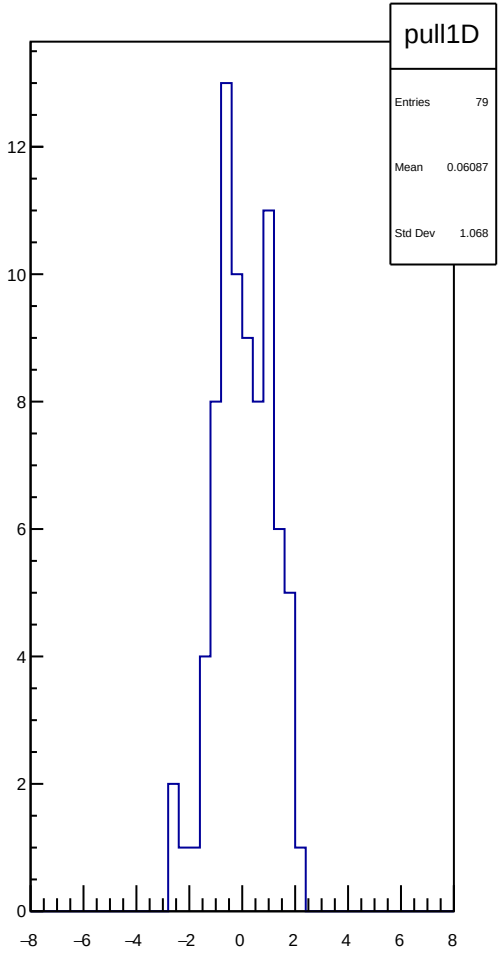

pull1D
Entries 79
Mean 0.01326
Std Dev 0.9487
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

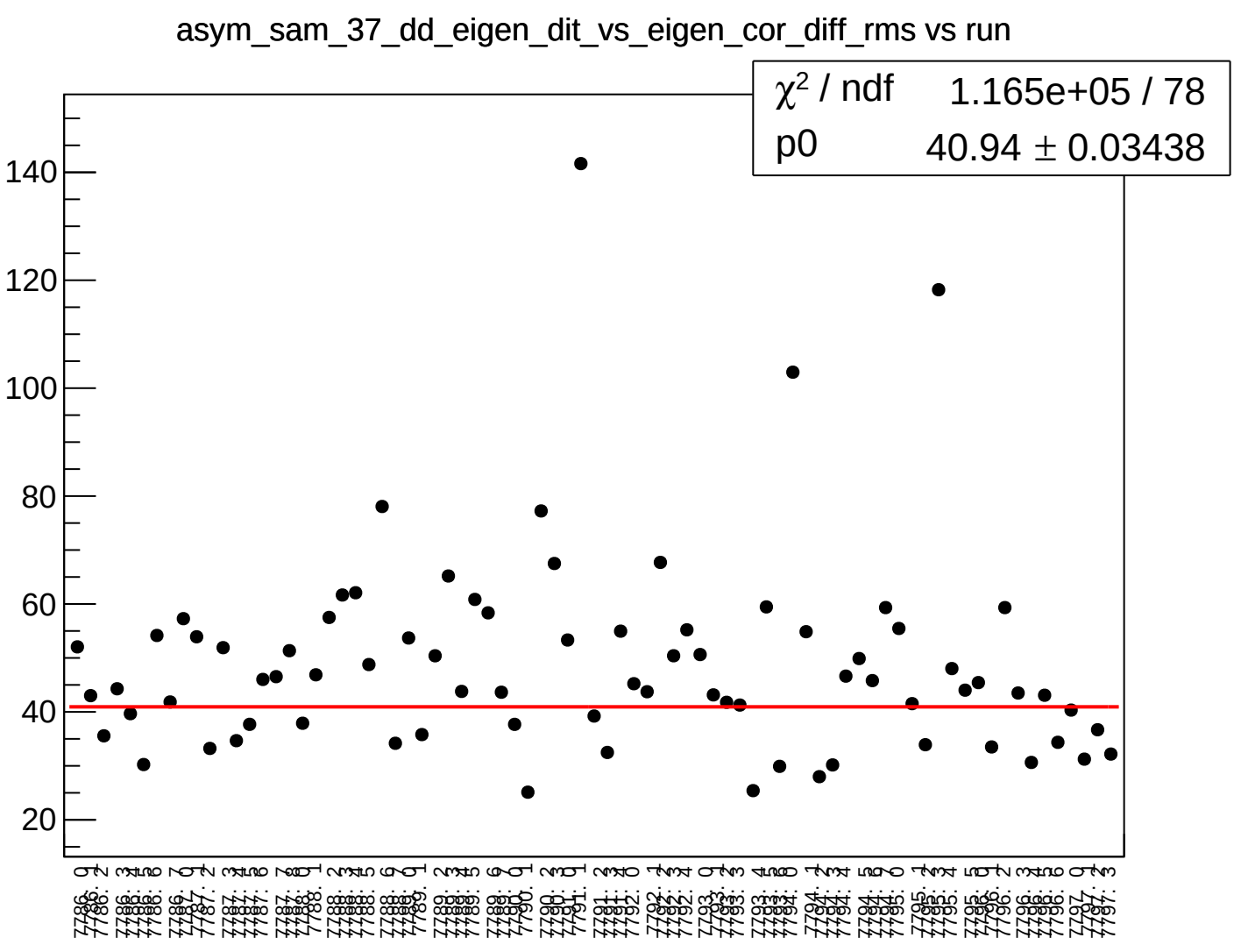

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2727 / 78
p0 0.001602 ± 1.294e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

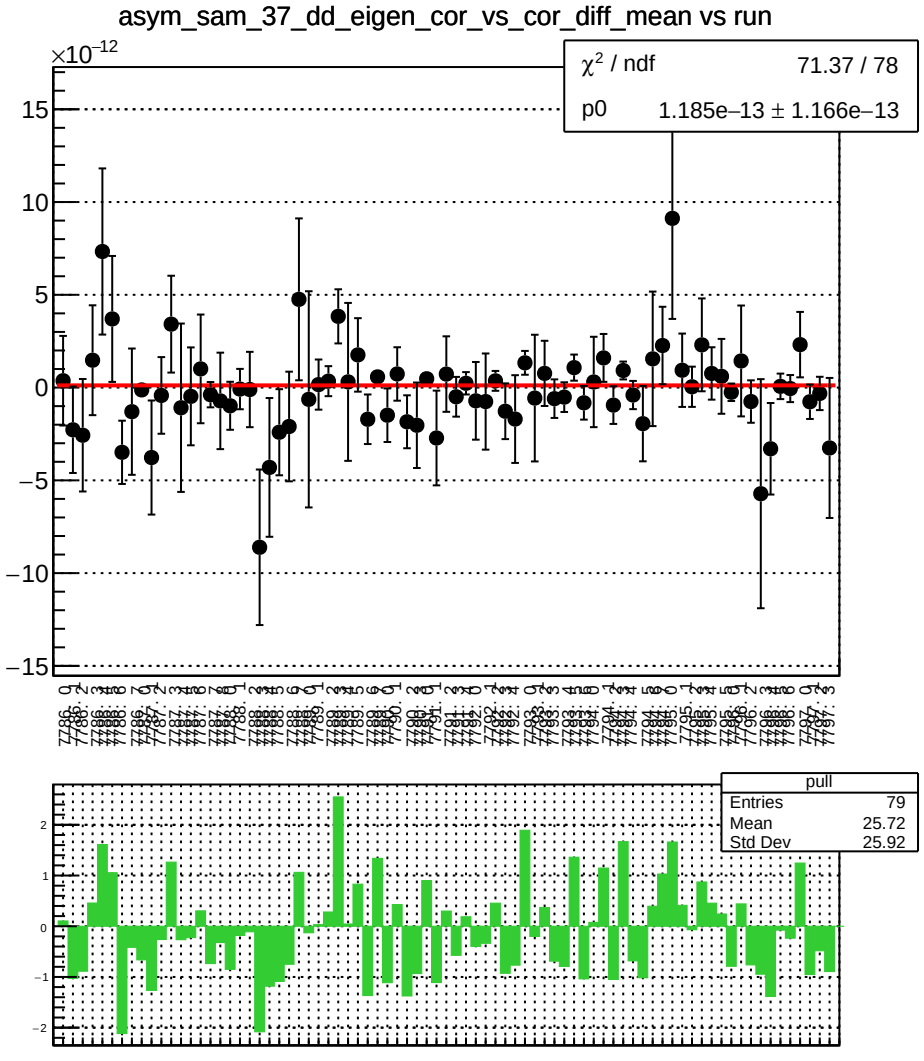

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.44 / 78
p0 −0.0003696 ± 0.04863
pull
Entries 79
Mean 100.2
Std Dev 0
pull1D
Entries 79
Mean 0.06087
Std Dev 1.068

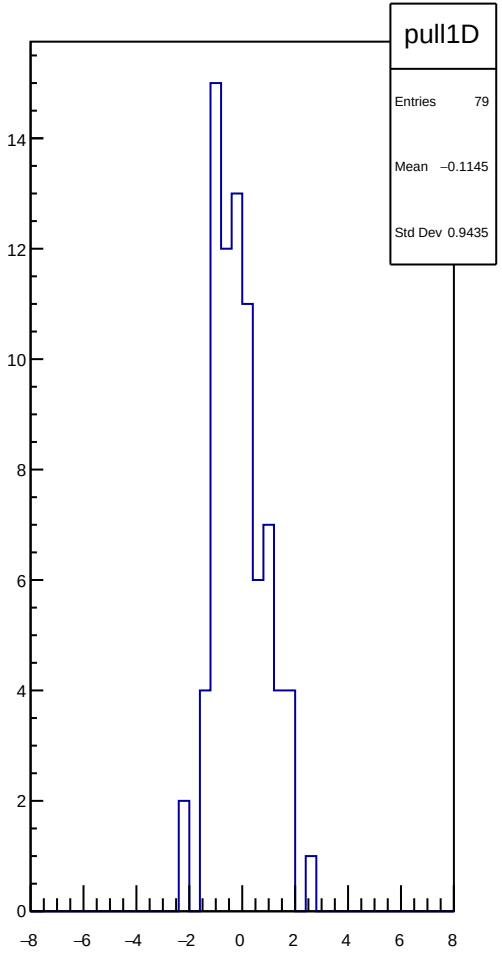

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 78
p0 40.94 ± 0.03438
140
120
100
80
60
40
20

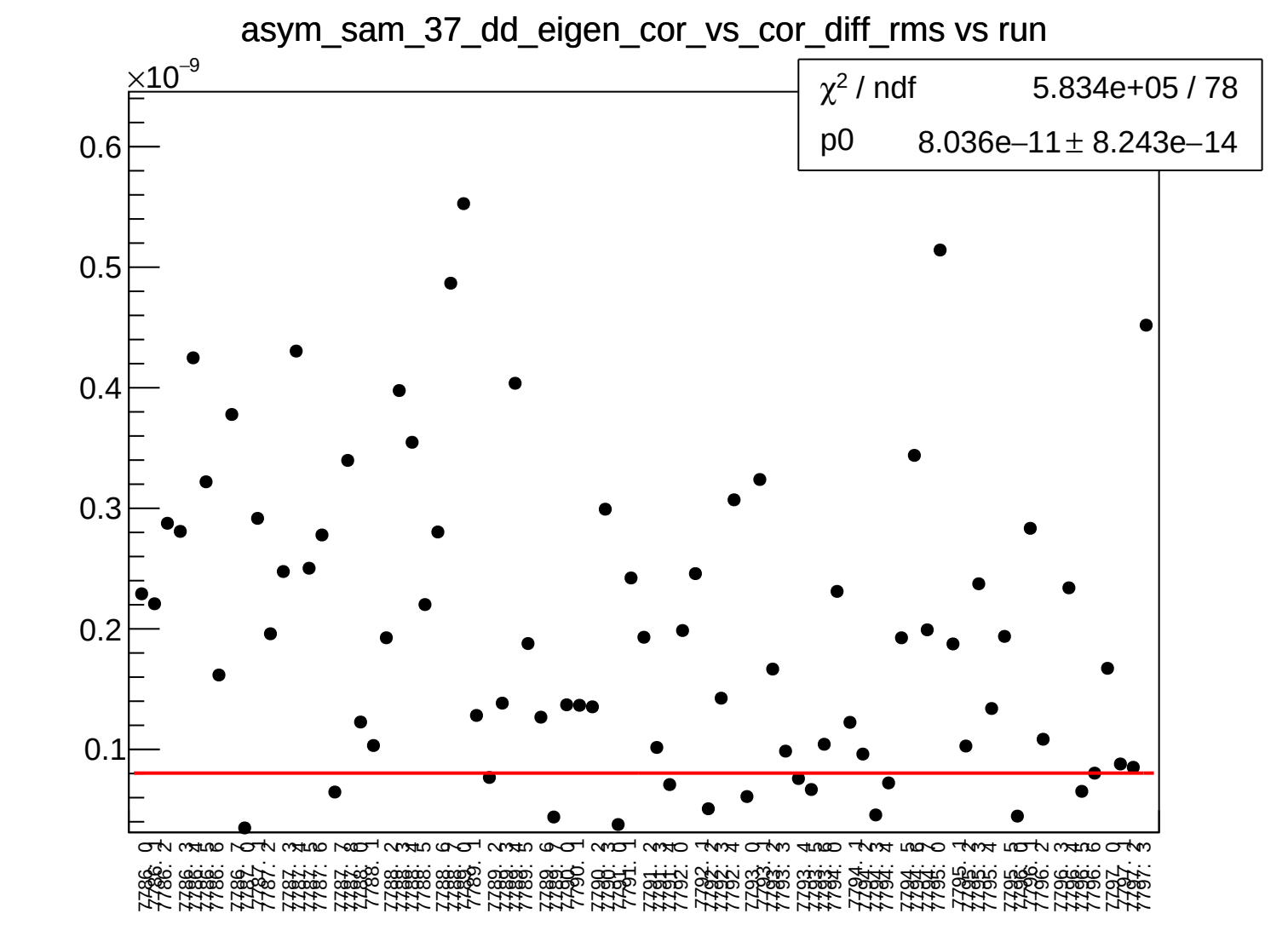

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.44 / 78
p0 −0.0003696 ± 0.04863
pull
Entries 79
Mean 100.2
Std Dev 0

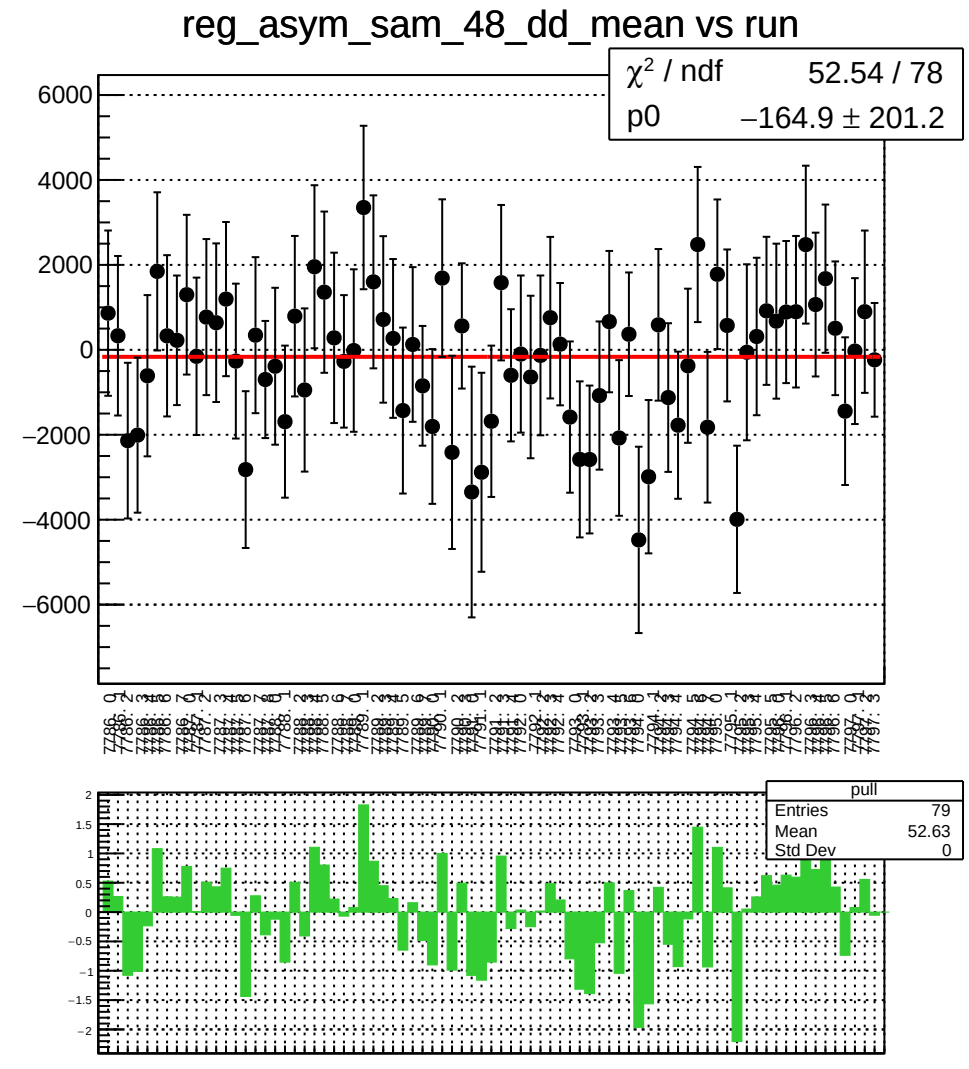

pull1D
Entries 79
Mean 0.06087
Std Dev 1.068

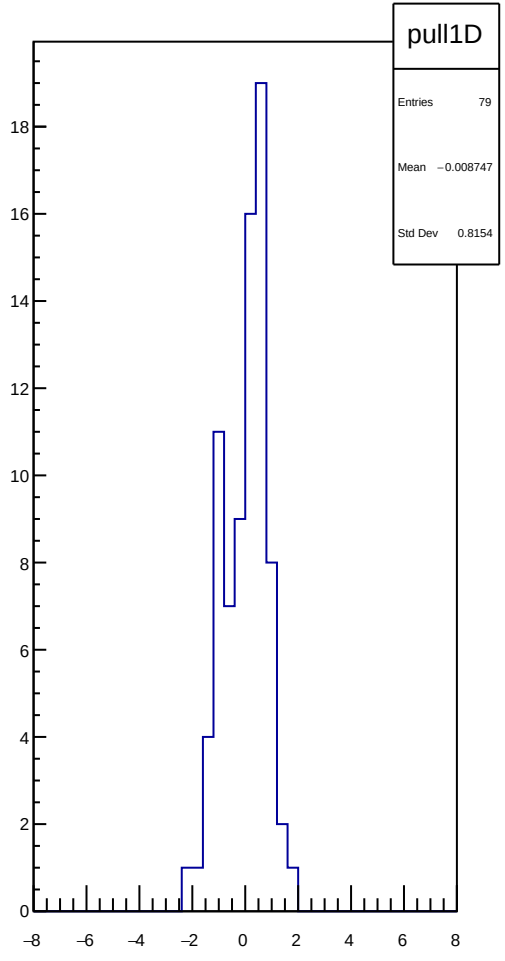

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 78
p0 40.94 ± 0.03438
140
120
100
80
60
40
20

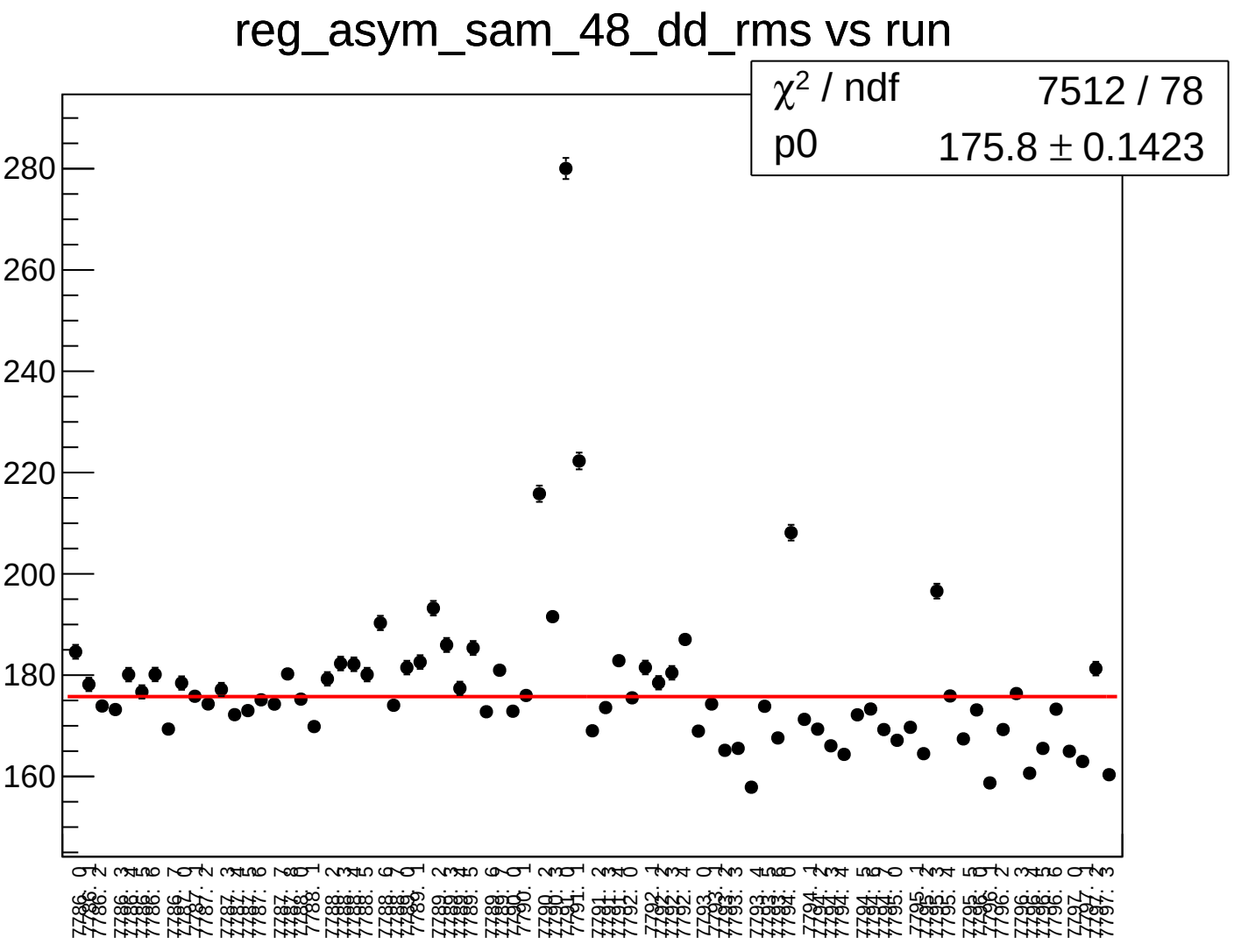

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.37 / 78
p0 1.185e−13 ± 1.166e−13
pull
Entries 79
Mean 25.72
Std Dev 25.92

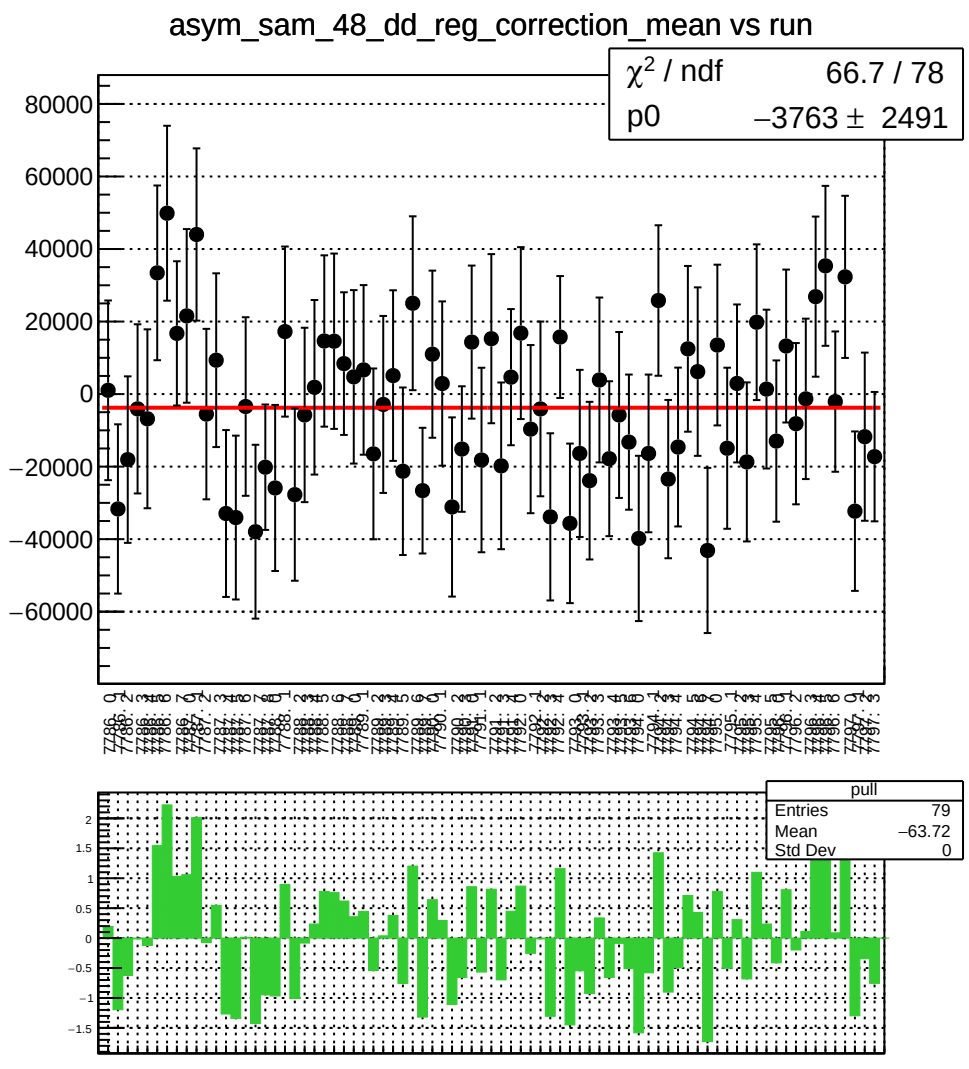

pull1D
Entries 79
Mean −0.1145
Std Dev 0.9435

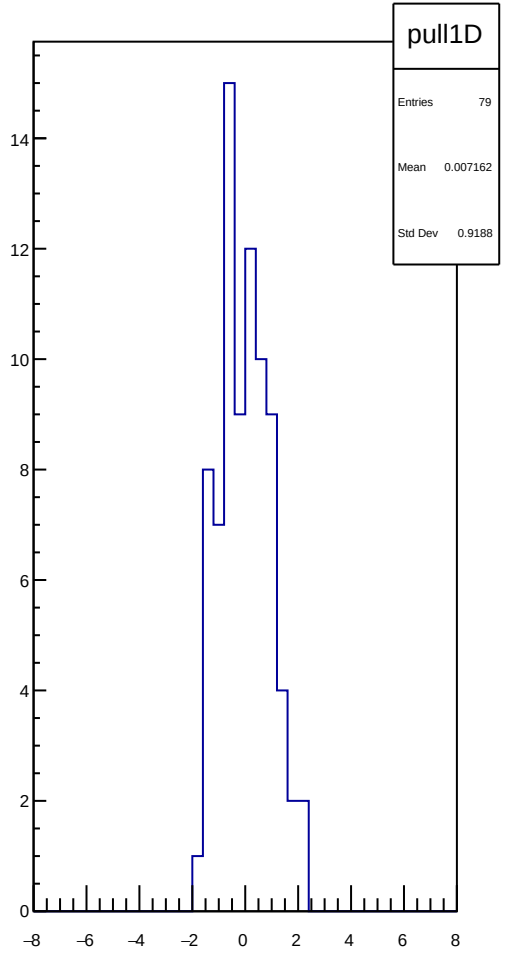

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.834e+05 / 78
p0 8.036e−11 ± 8.243e−14
0.6
0.5
0.4
0.3
0.2
0.1

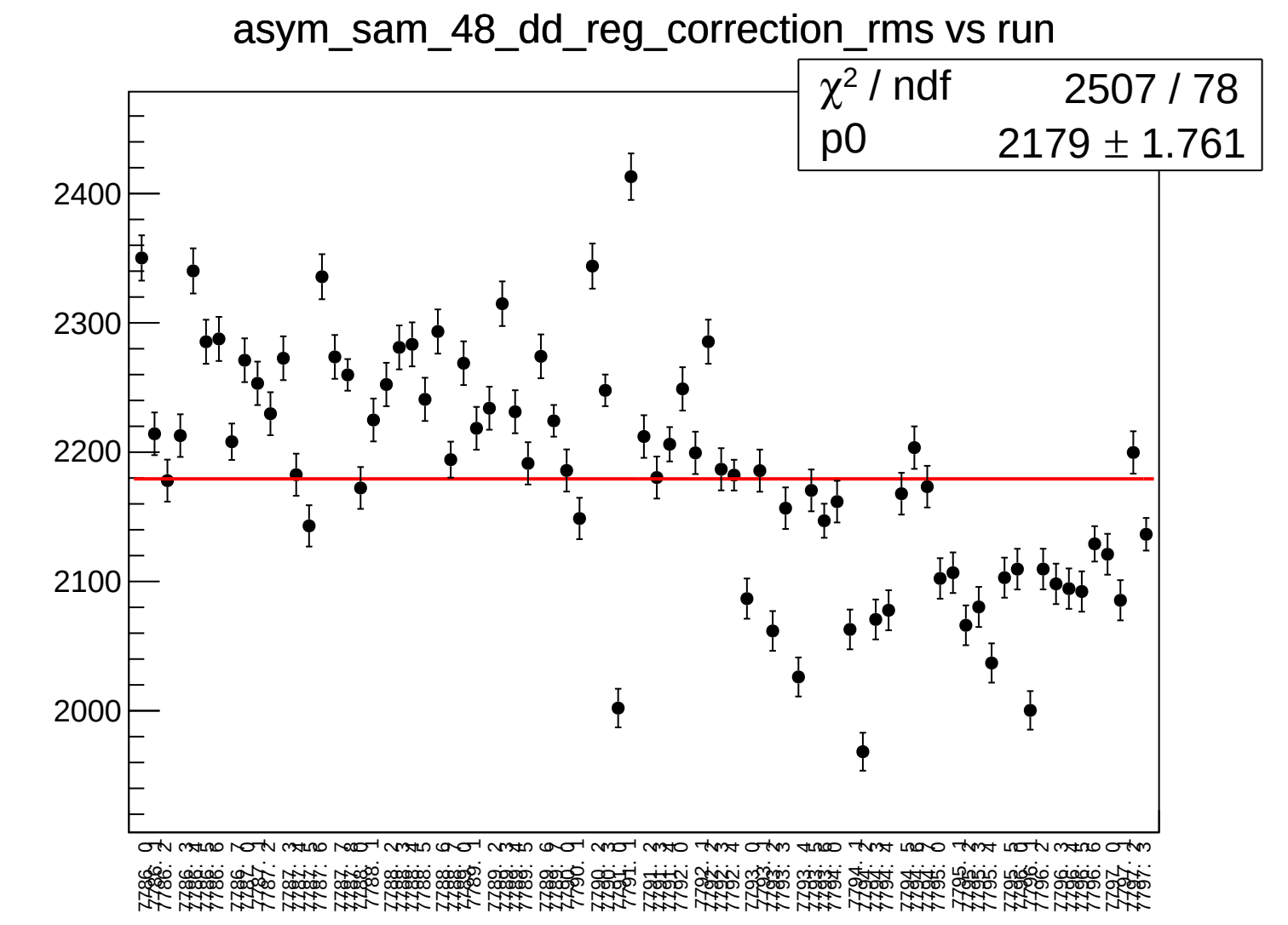

reg_asym_sam_48_dd_mean vs run
χ² / ndf 52.54 / 78
p0 −164.9 ± 201.2
pull
Entries 79
Mean 52.63
Std Dev 0

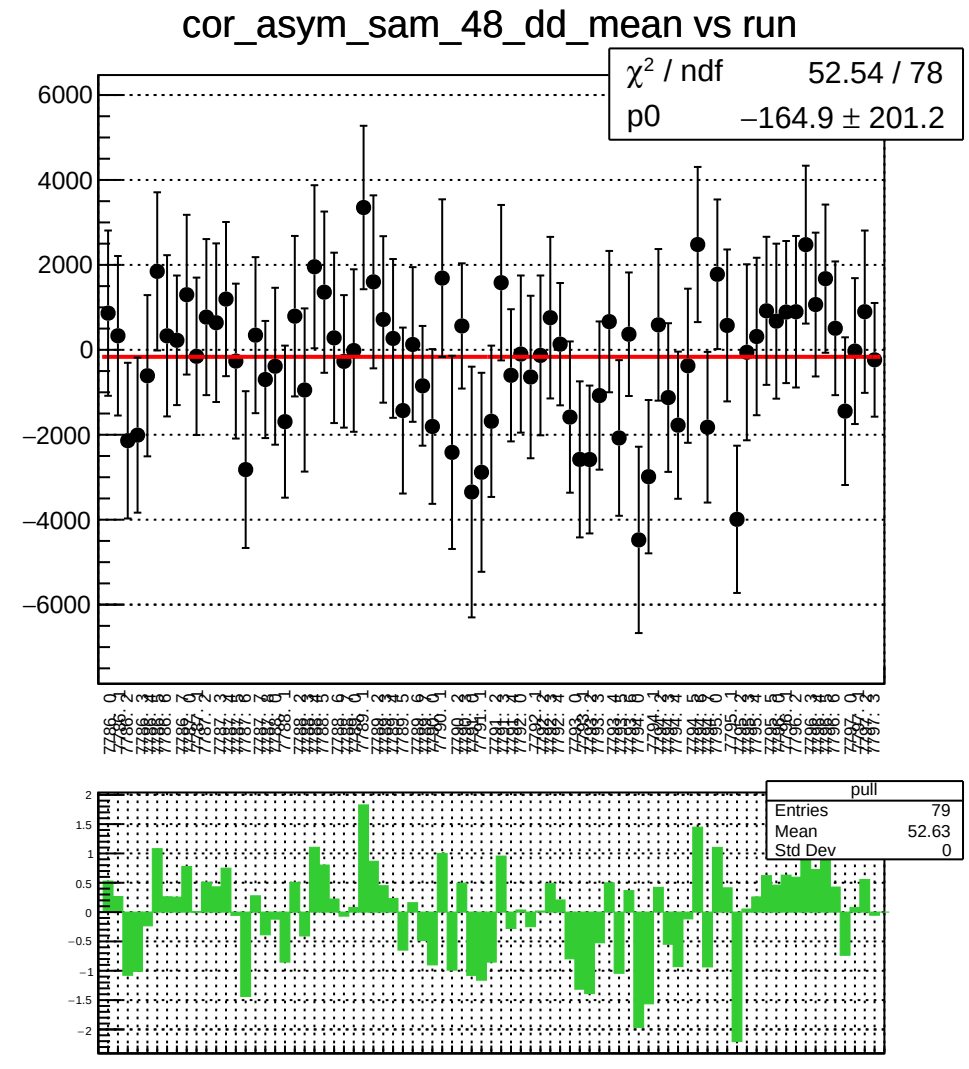

pull1D
Entries 79
Mean −0.008747
Std Dev 0.8154

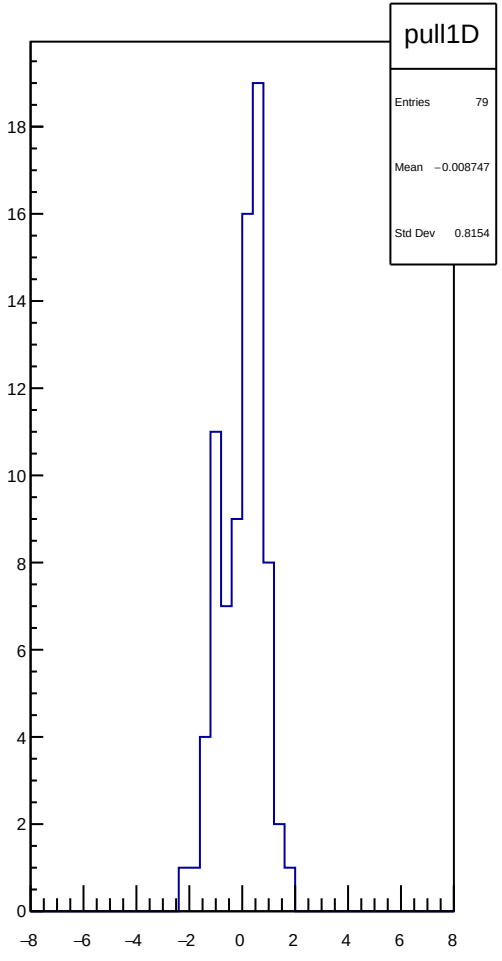

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 7512 / 78
p0 175.8 ± 0.1423
280
260
240
220
200
180
160

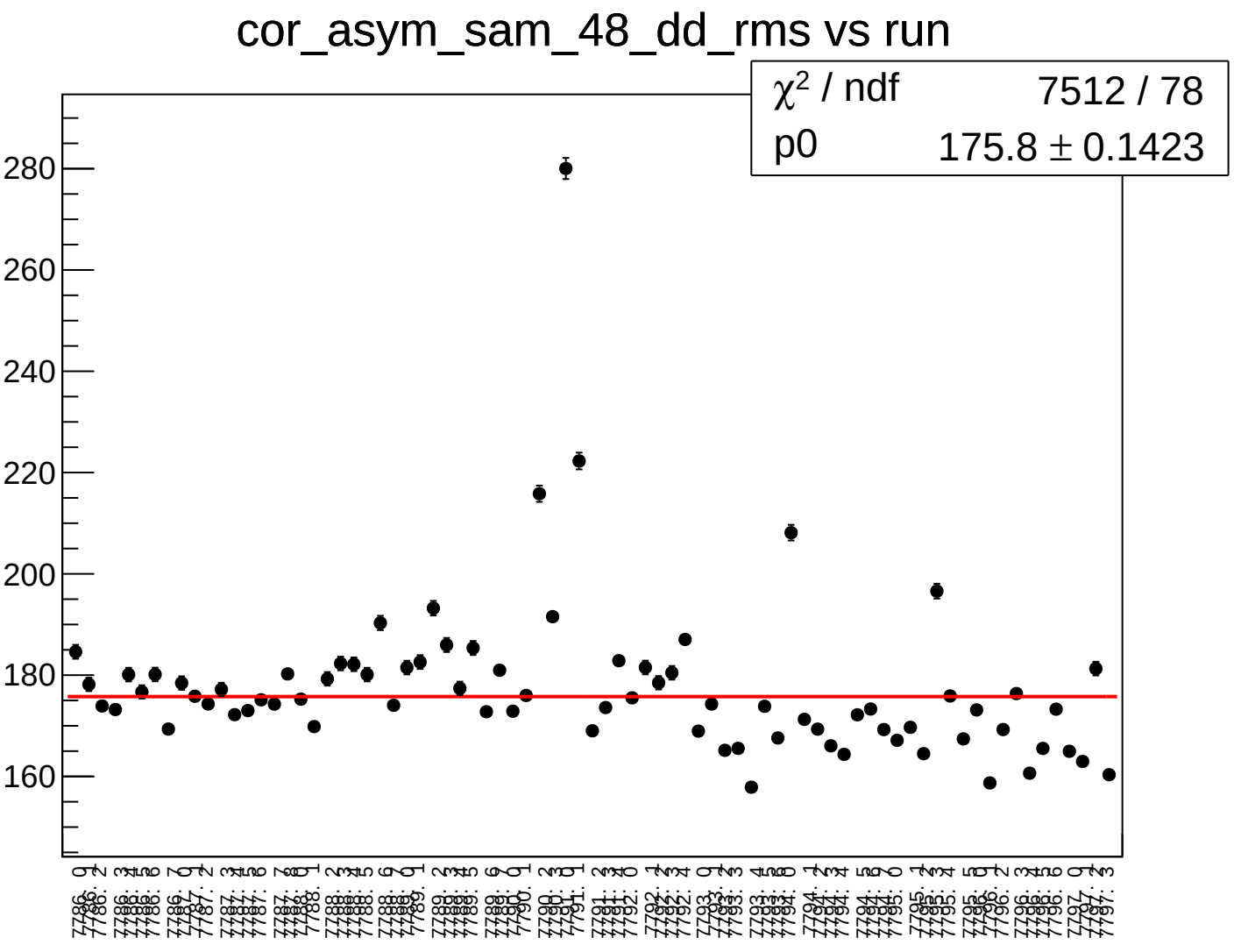

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 66.7 / 78
p0 −3763 ± 2491
pull
Entries 79
Mean −63.72
Std Dev 0

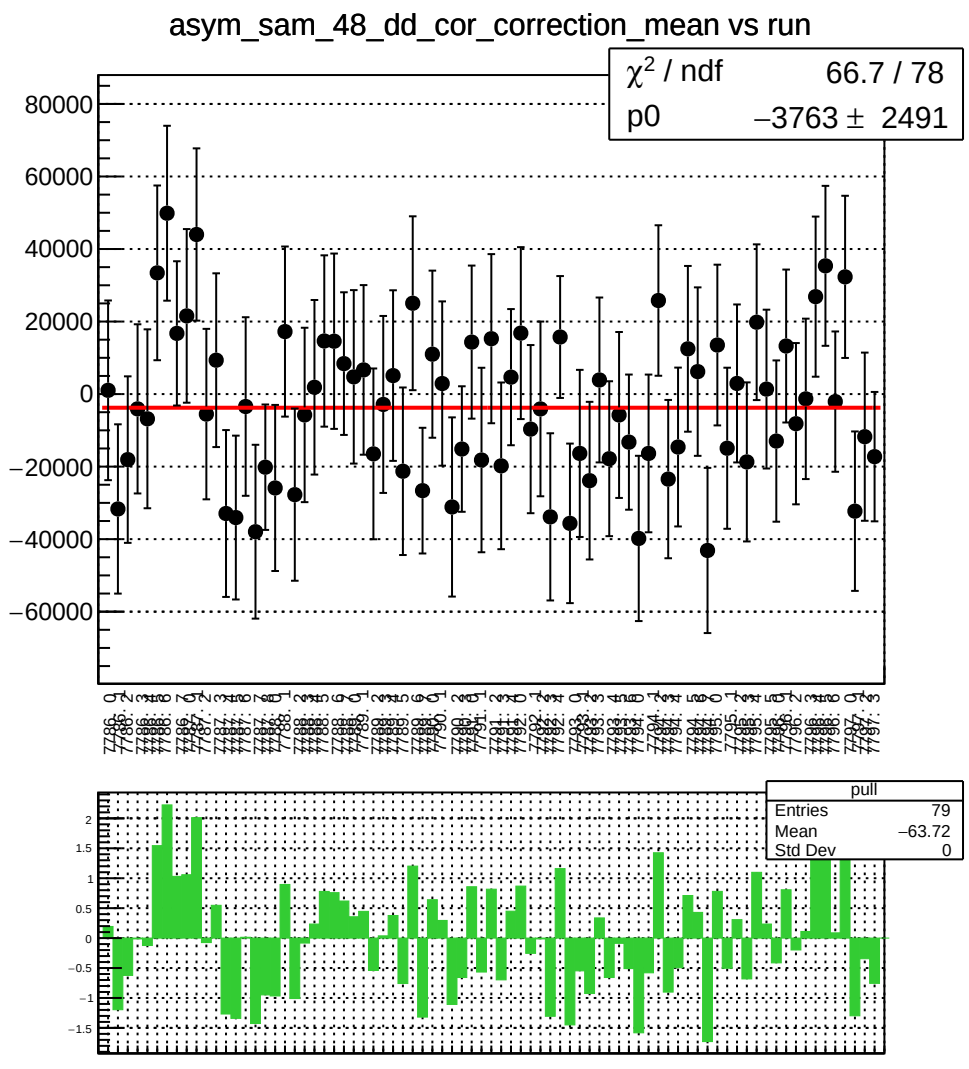

pull1D
Entries 79
Mean 0.007162
Std Dev 0.9188

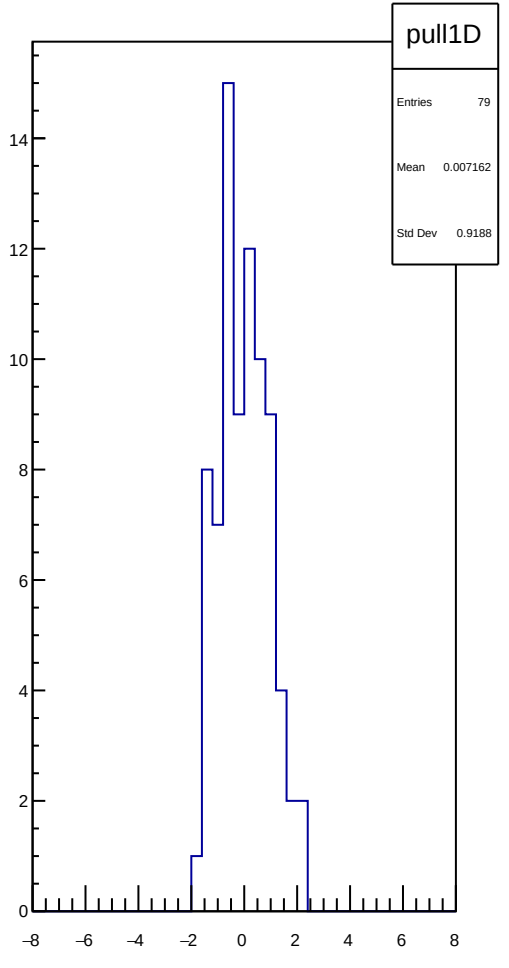

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 2507 / 78
p0 2179 ± 1.761
2400
2300
2200
2100
2000

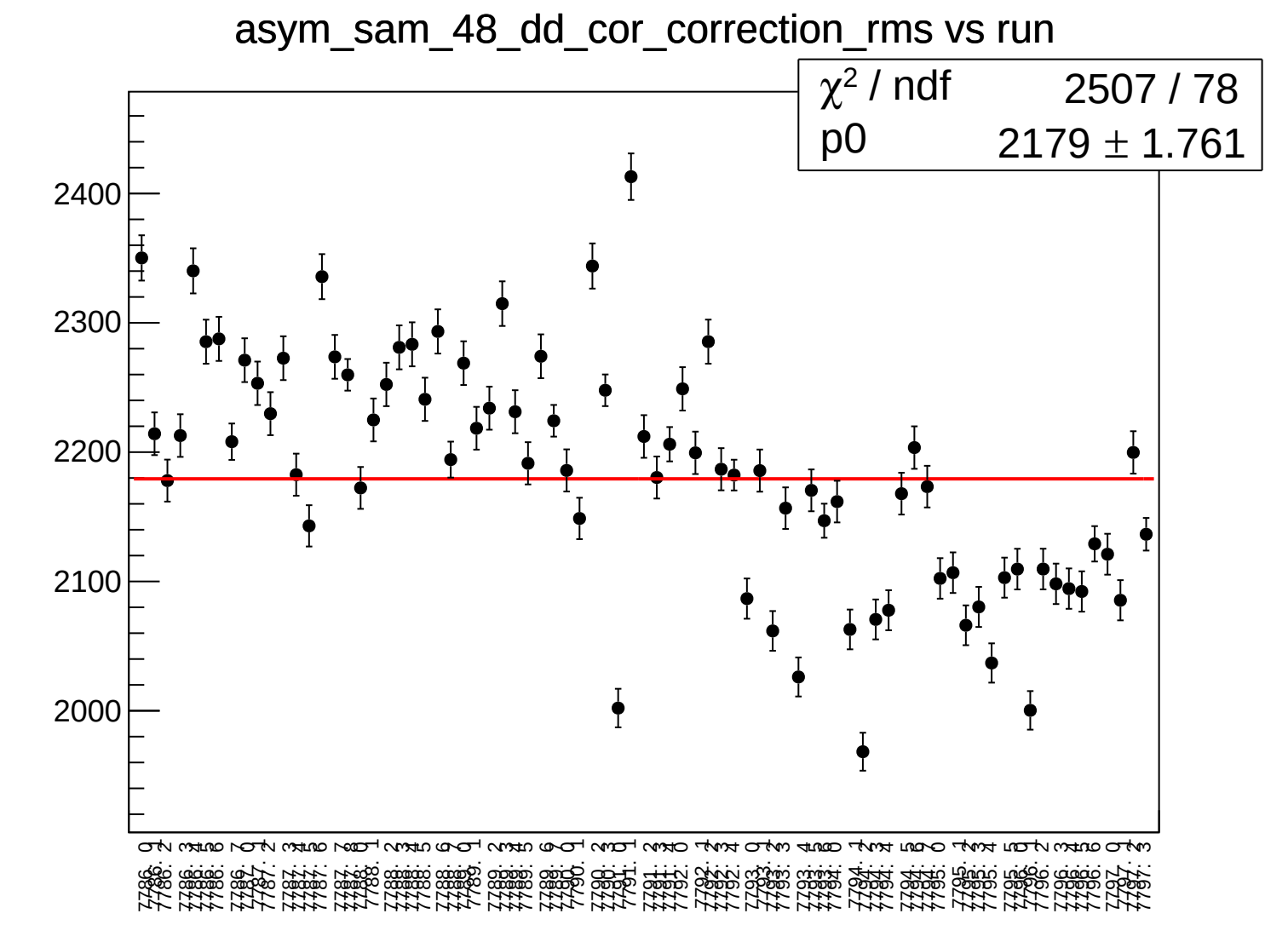

cor_asym_sam_48_dd_mean vs run
χ² / ndf 52.54 / 78
p0 −164.9 ± 201.2
pull
Entries 79
Mean 52.63
Std Dev 0

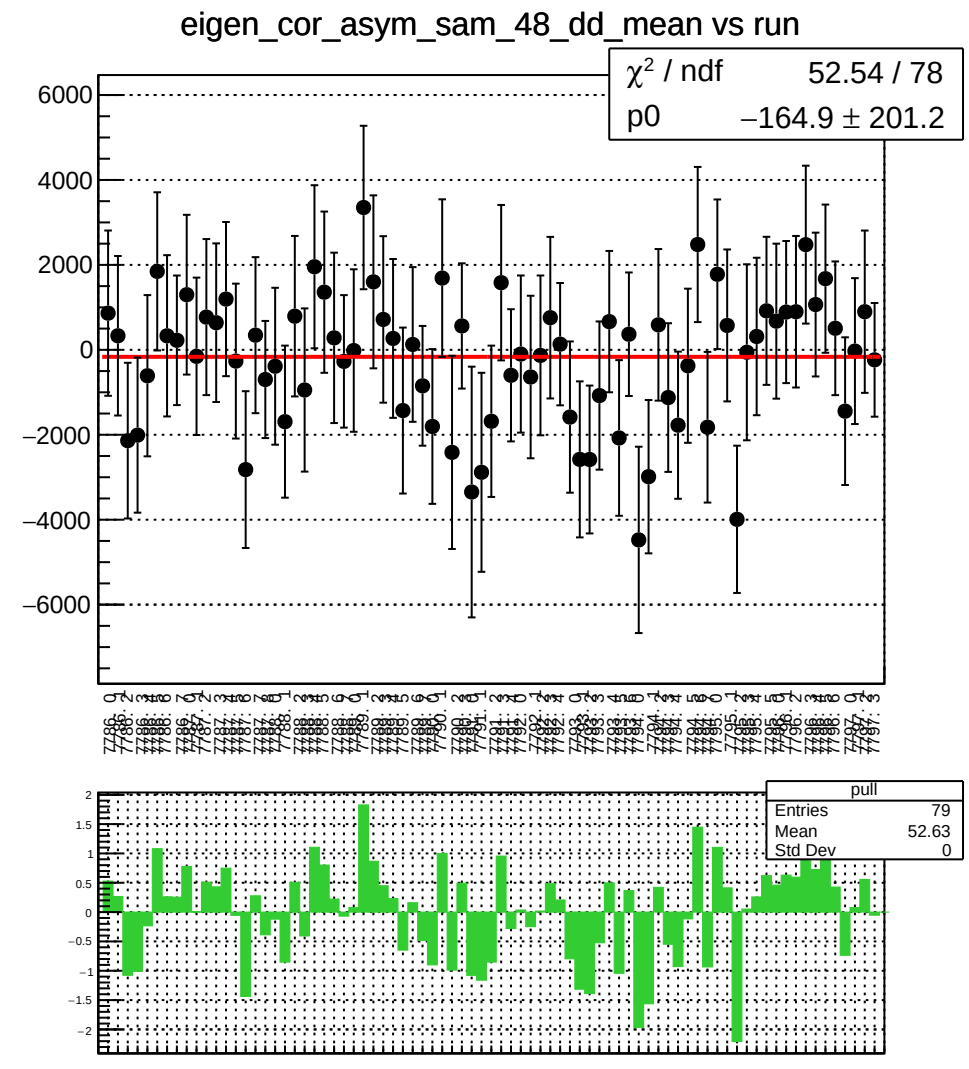

pull1D
Entries 79
Mean −0.008747
Std Dev 0.8154

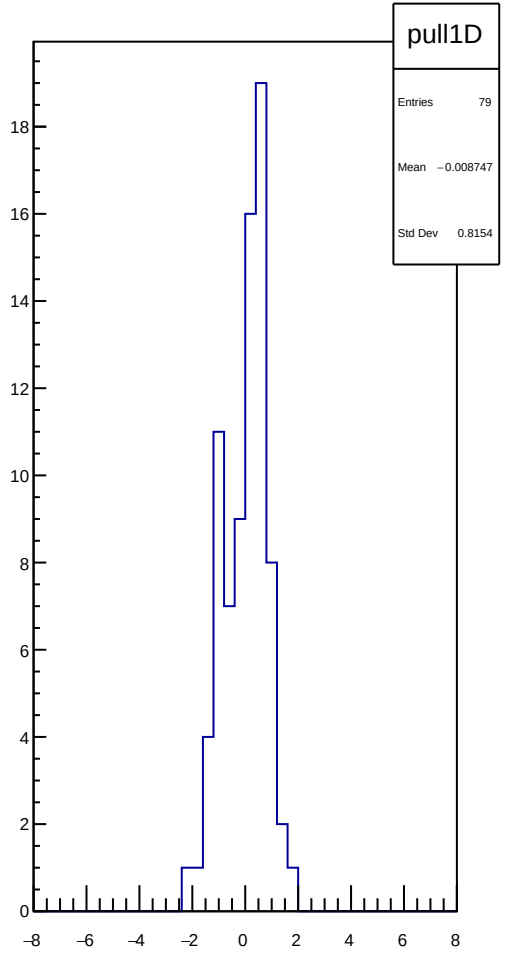

cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 7512 / 78
p0 175.8 ± 0.1423
280
260
240
220
200
180
160

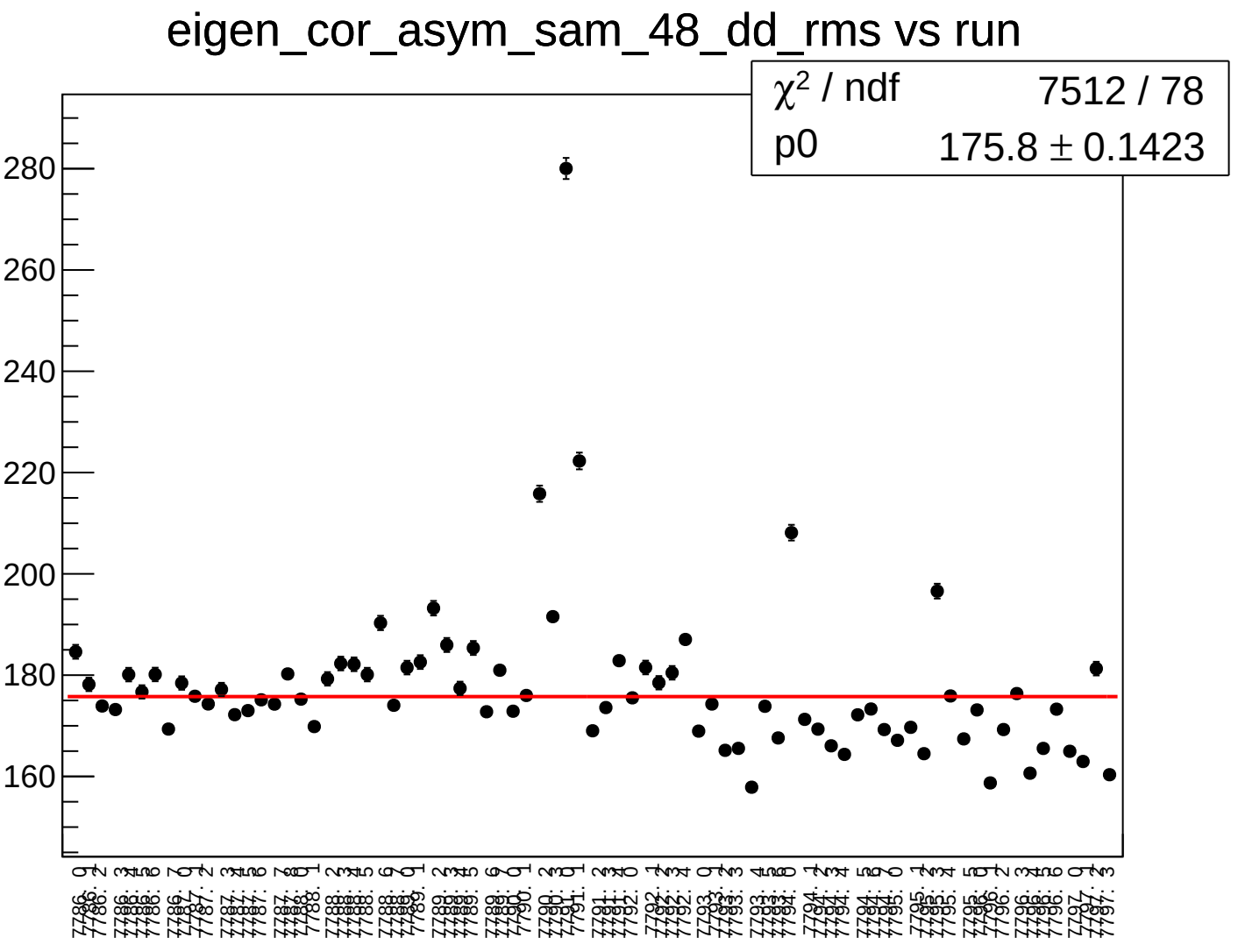

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 66.7 / 78
p0 −3763 ± 2491
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −63.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

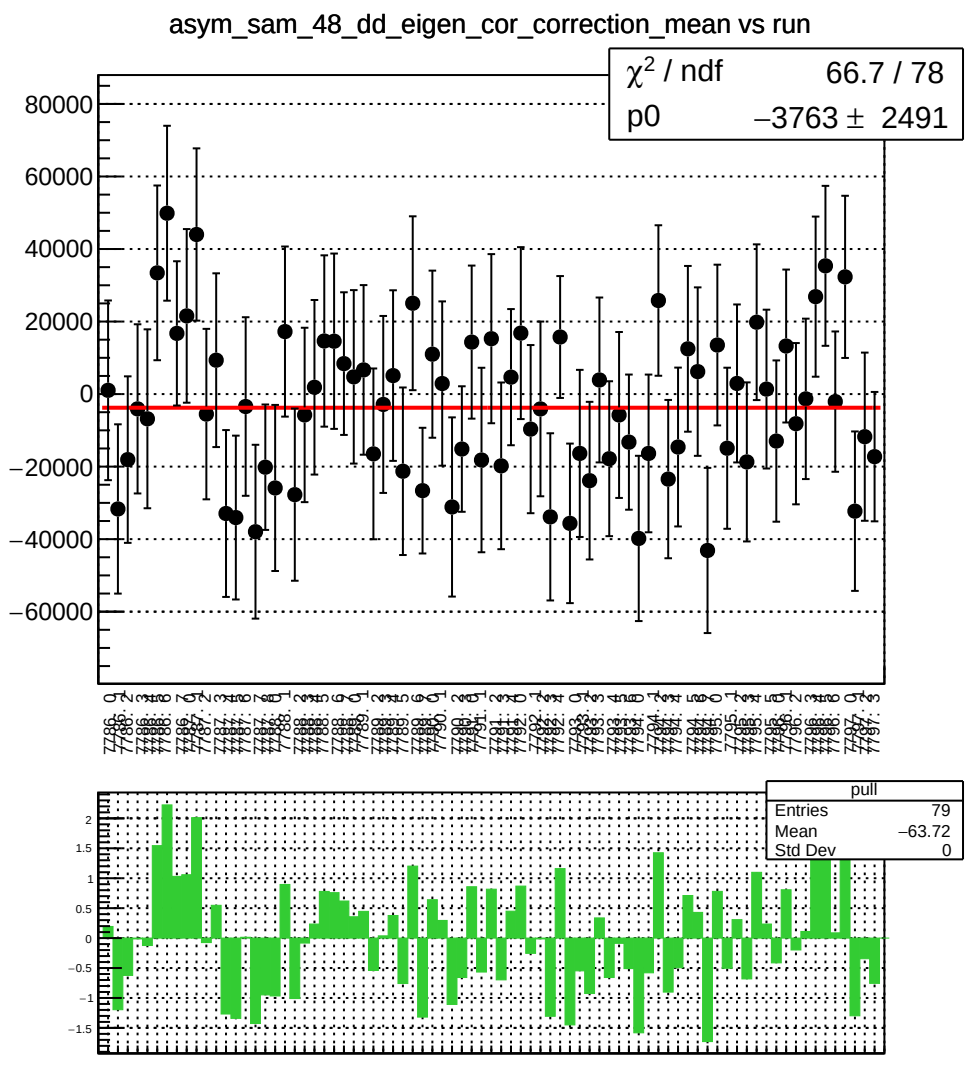

pull1D
Entries 79
Mean 0.007162
Std Dev 0.9188
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

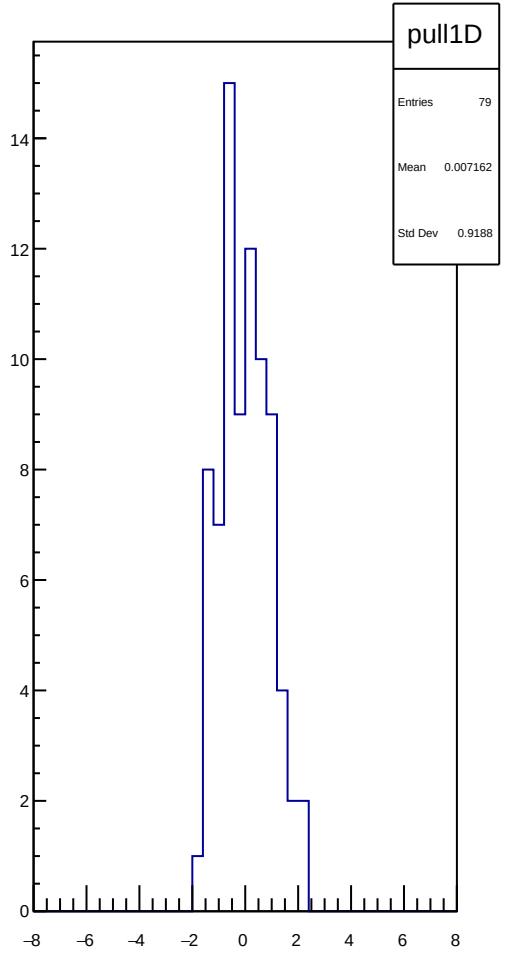

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 2507 / 78
p0 2179 ± 1.761
2400
2300
2200
2100
2000

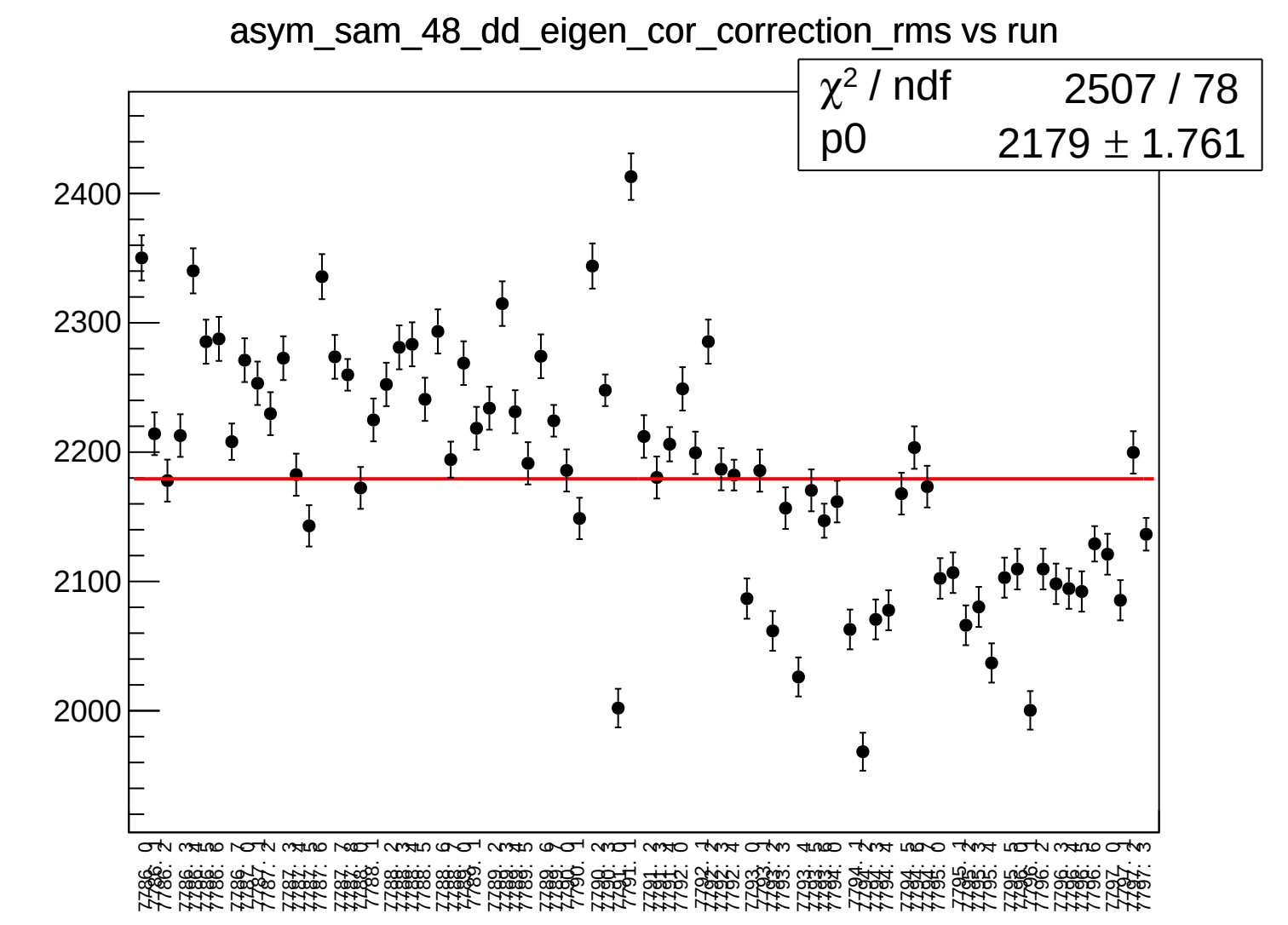

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 52.54 / 78
p0 −164.9 ± 201.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 79
Mean 52.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

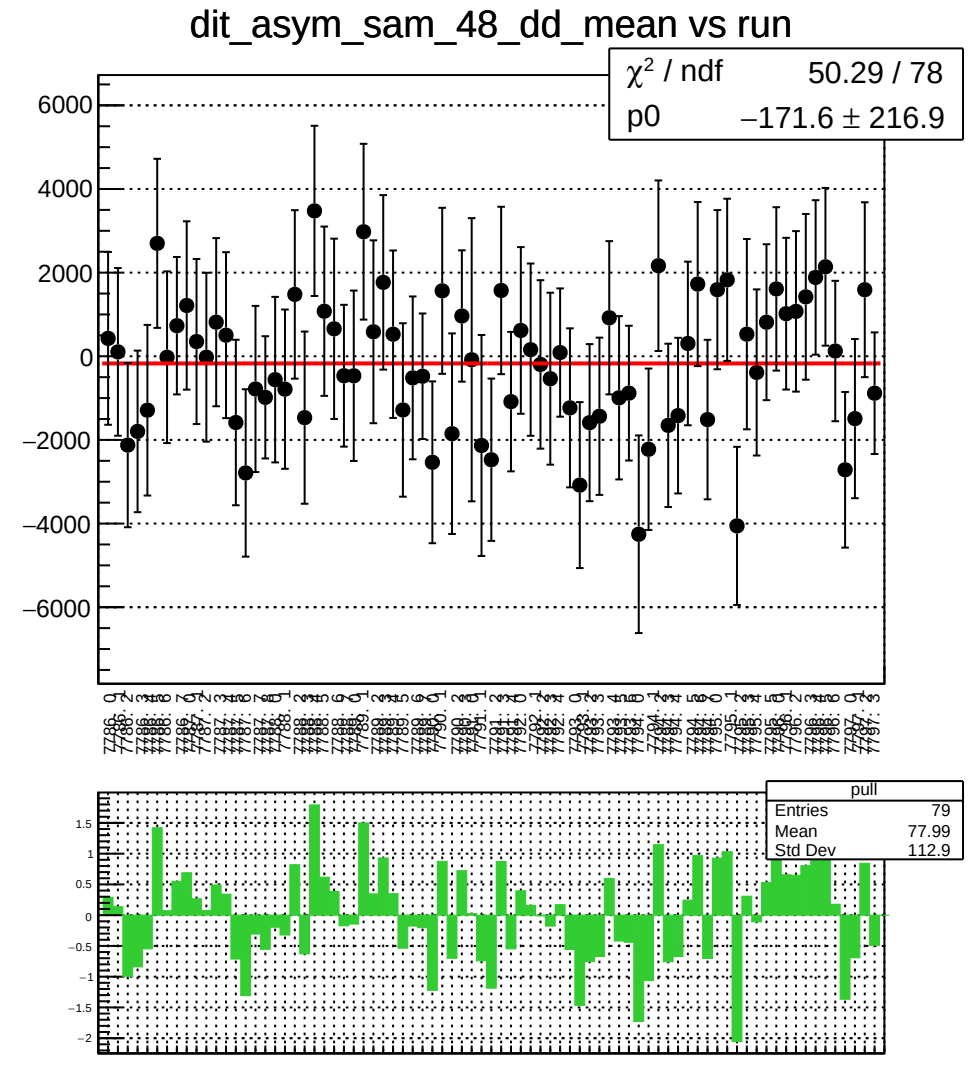

pull1D
Entries 79
Mean −0.008747
Std Dev 0.8154
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

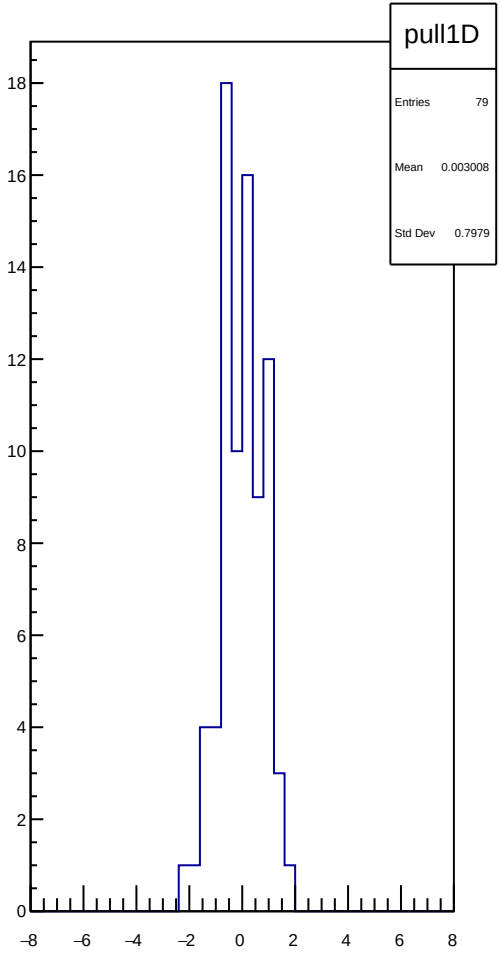

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 7512 / 78
p0 175.8 ± 0.1423
280
260
240
220
200
180
160

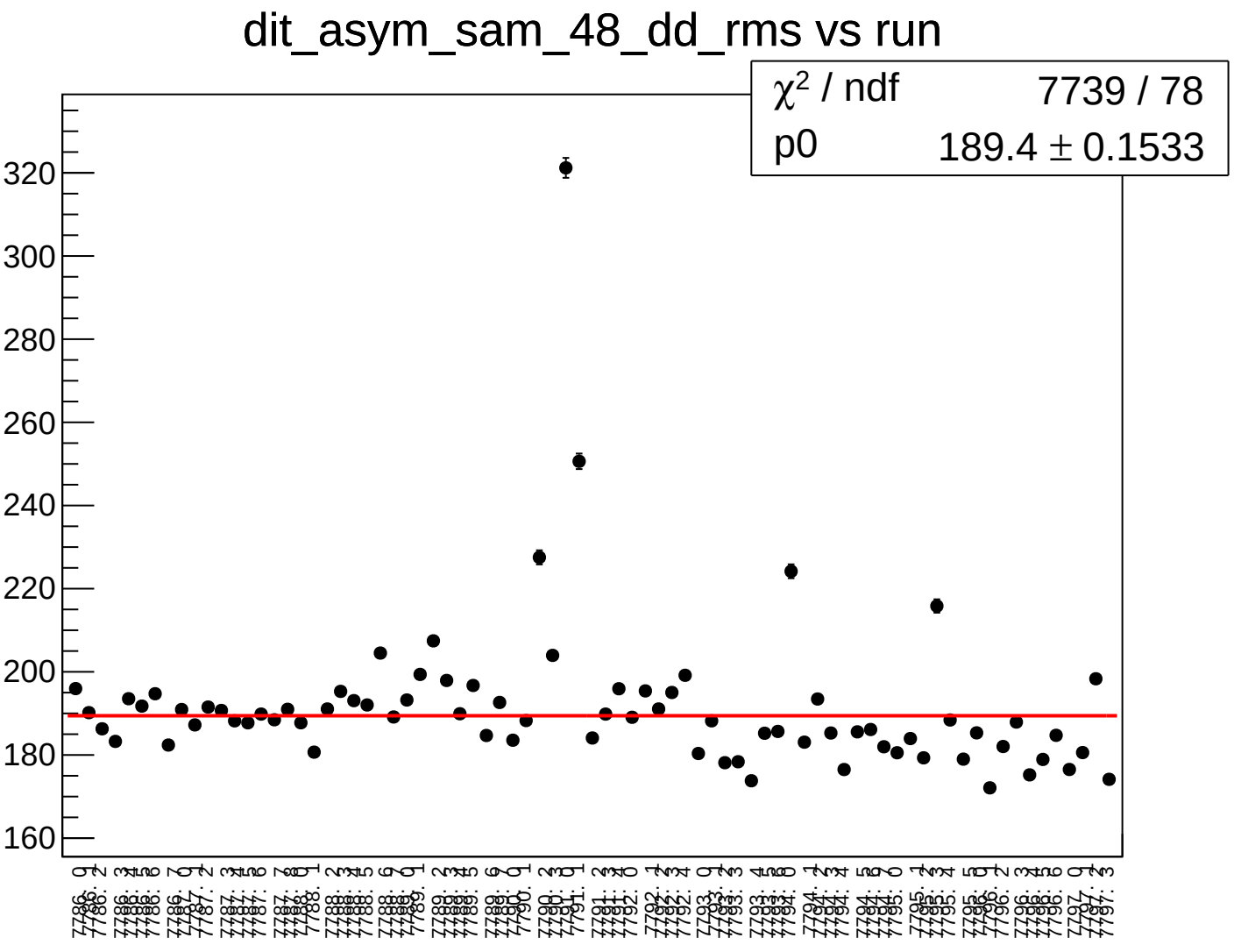

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.7 / 78
p0 −3763 ± 2491
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −63.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

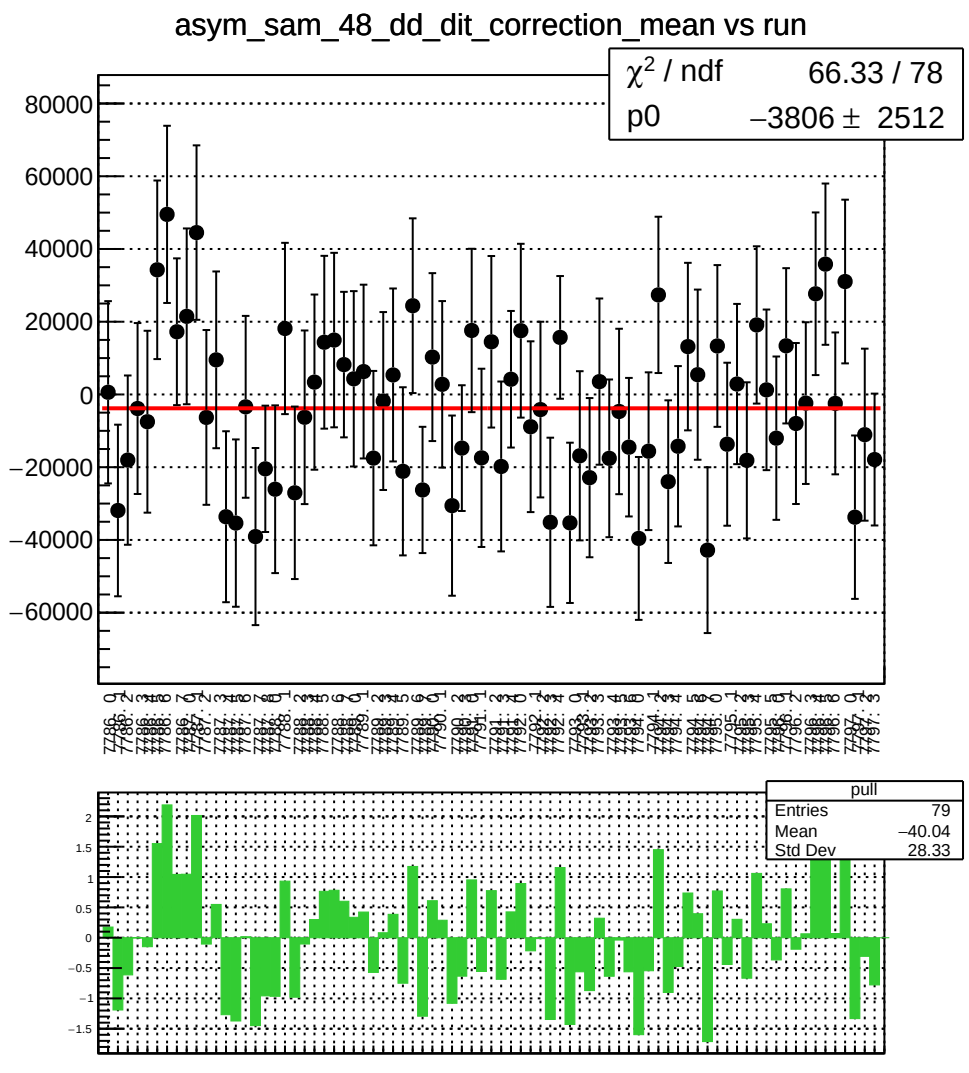

pull1D
Entries 79
Mean 0.007162
Std Dev 0.9188
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

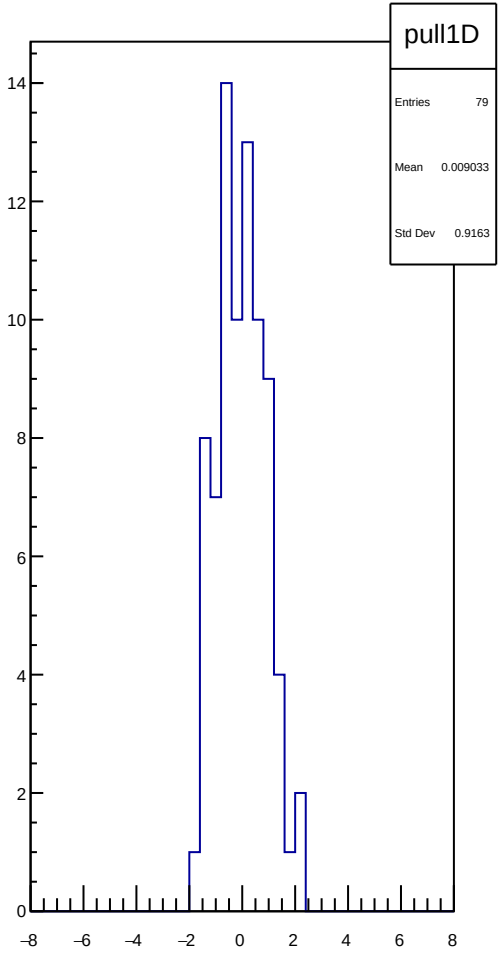

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2507 / 78
p0 2179 ± 1.761
2400
2300
2200
2100
2000

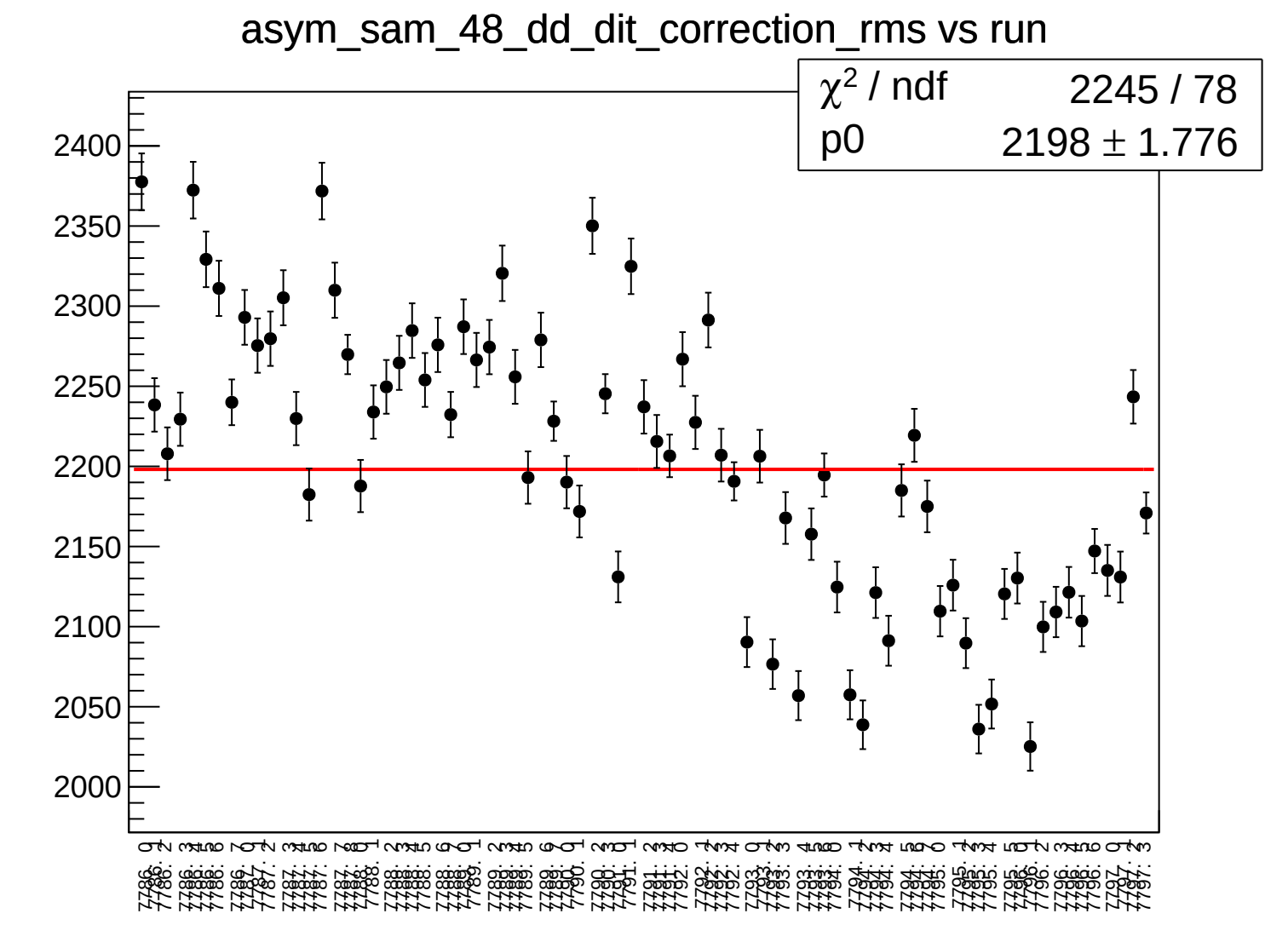

dit_asym_sam_48_dd_mean vs run
χ² / ndf 50.29 / 78
p0 −171.6 ± 216.9
pull
Entries 79
Mean 77.99
Std Dev 112.9

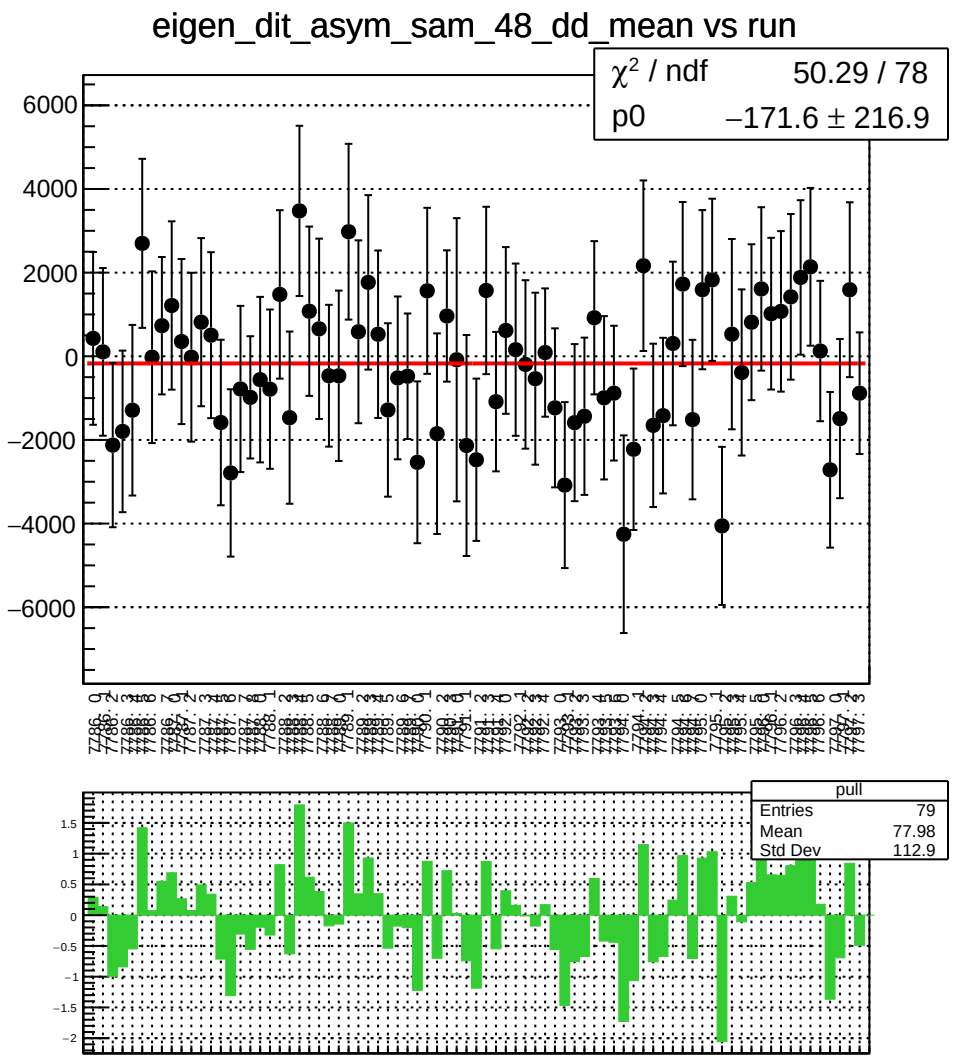

pull1D
Entries 79
Mean 0.003008
Std Dev 0.7979

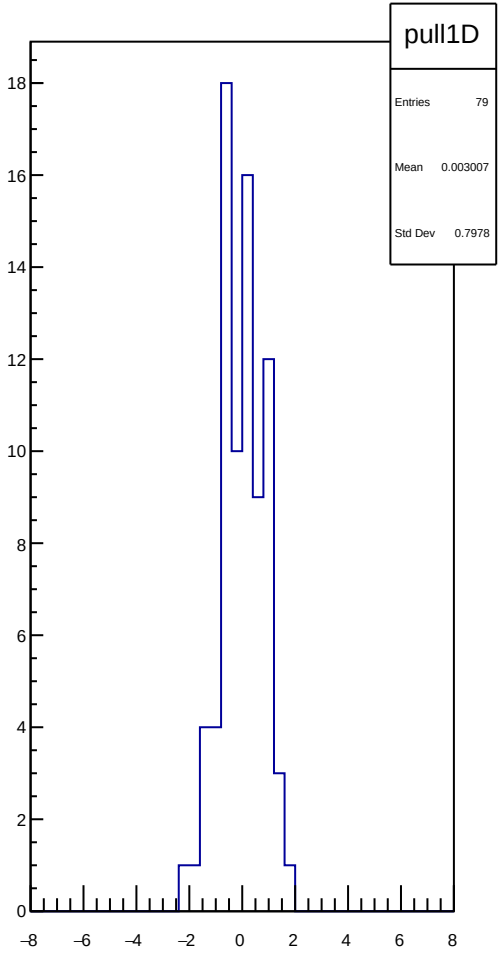

dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 7739 / 78
p0 189.4 ± 0.1533
320
300
280
260
240
220
200
180
160

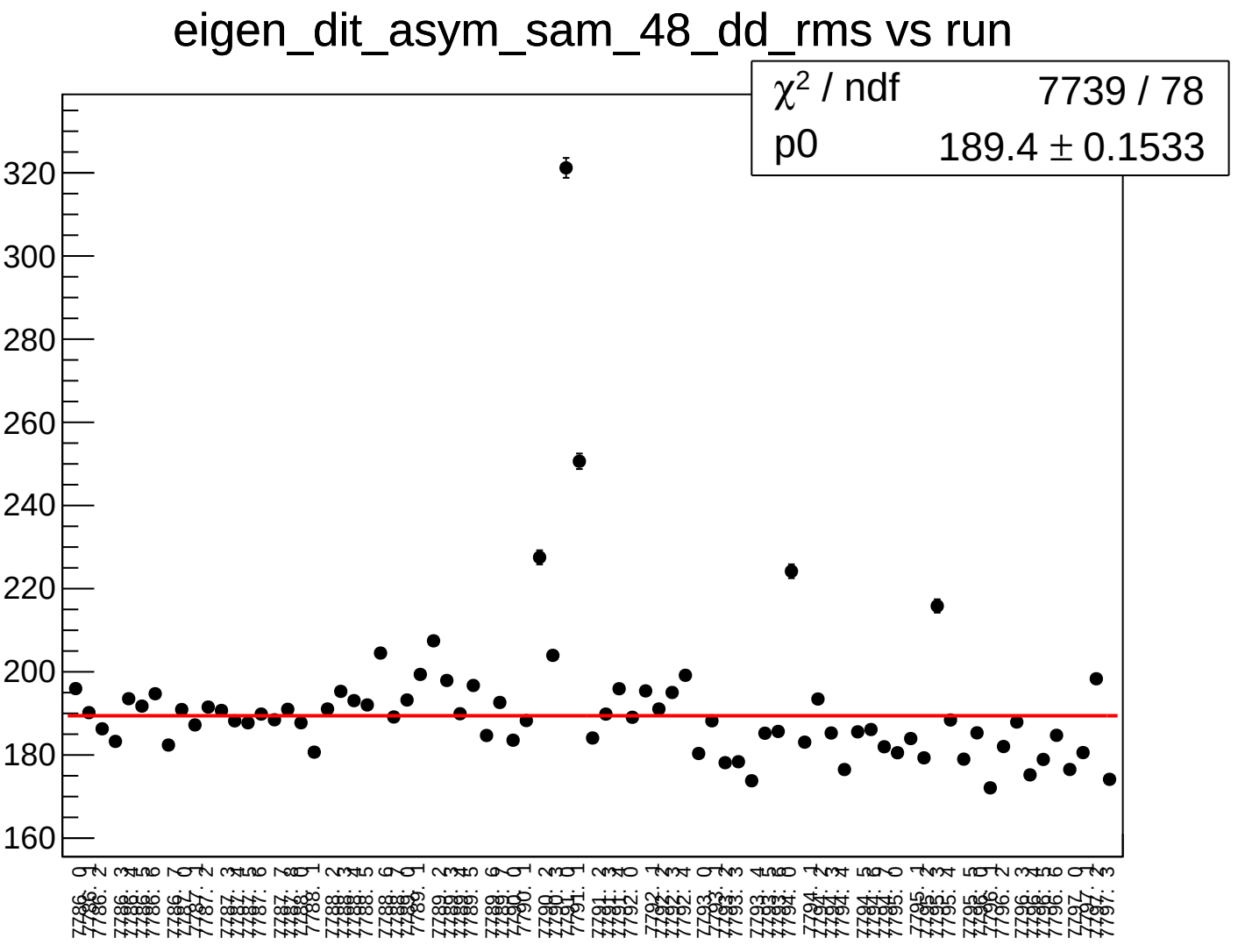

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 66.33 / 78
p0 −3806 ± 2512
pull
Entries 79
Mean −40.04
Std Dev 28.33

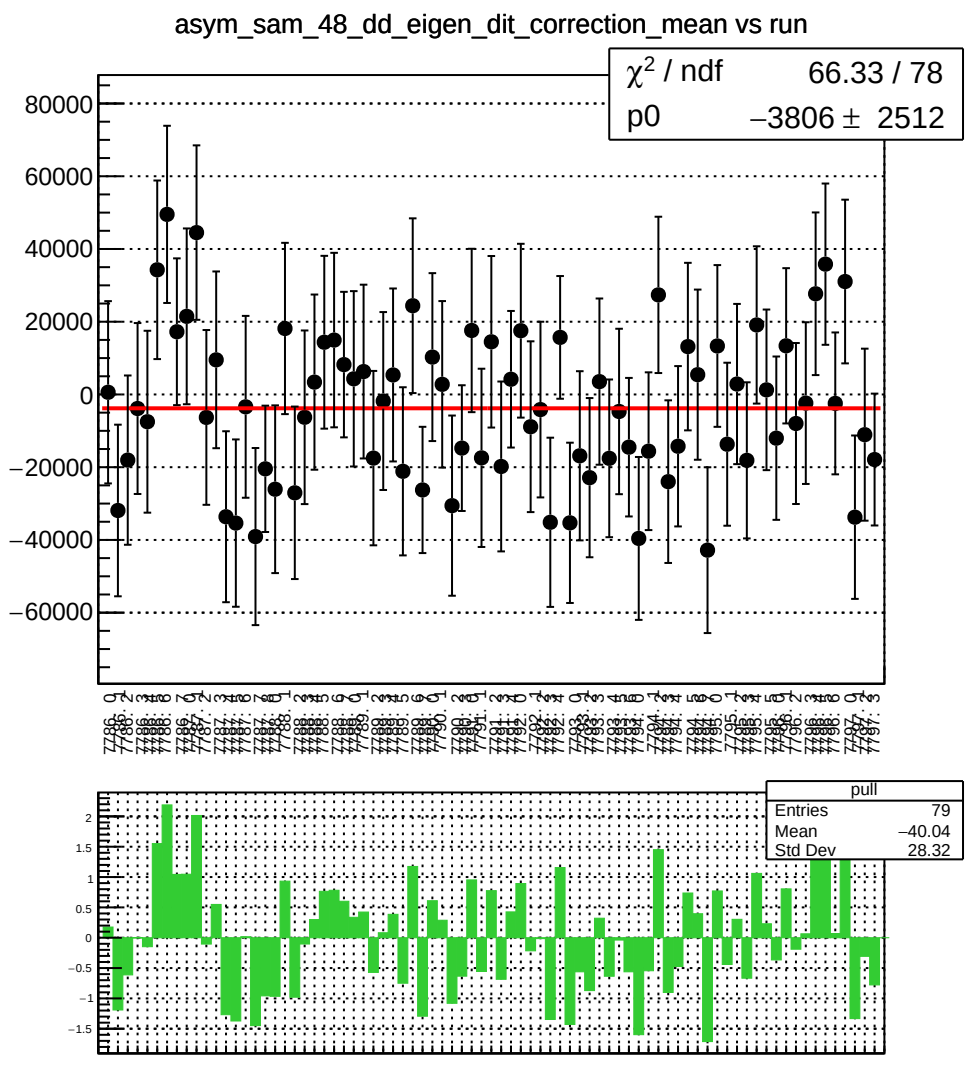

pull1D
Entries 79
Mean 0.009033
Std Dev 0.9163

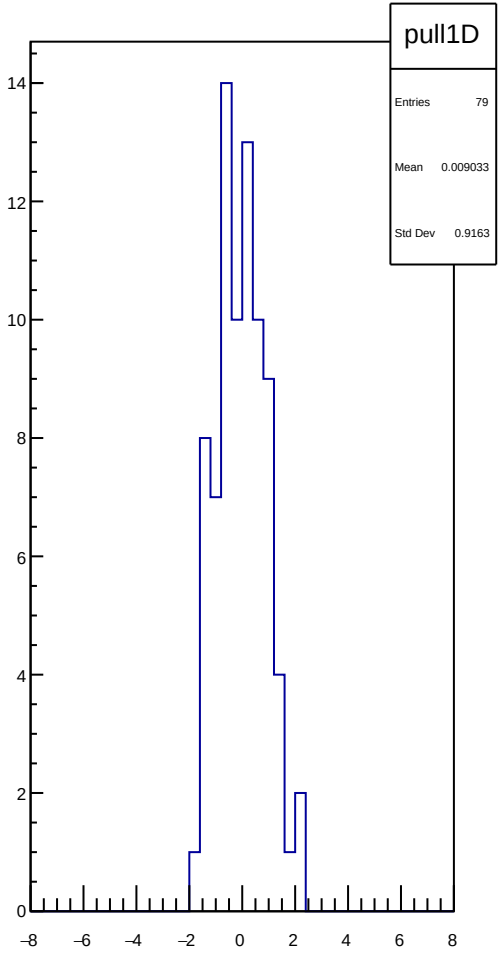

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2245 / 78
p0 2198 ± 1.776
2400
2350
2300
2250
2200
2150
2100
2050
2000

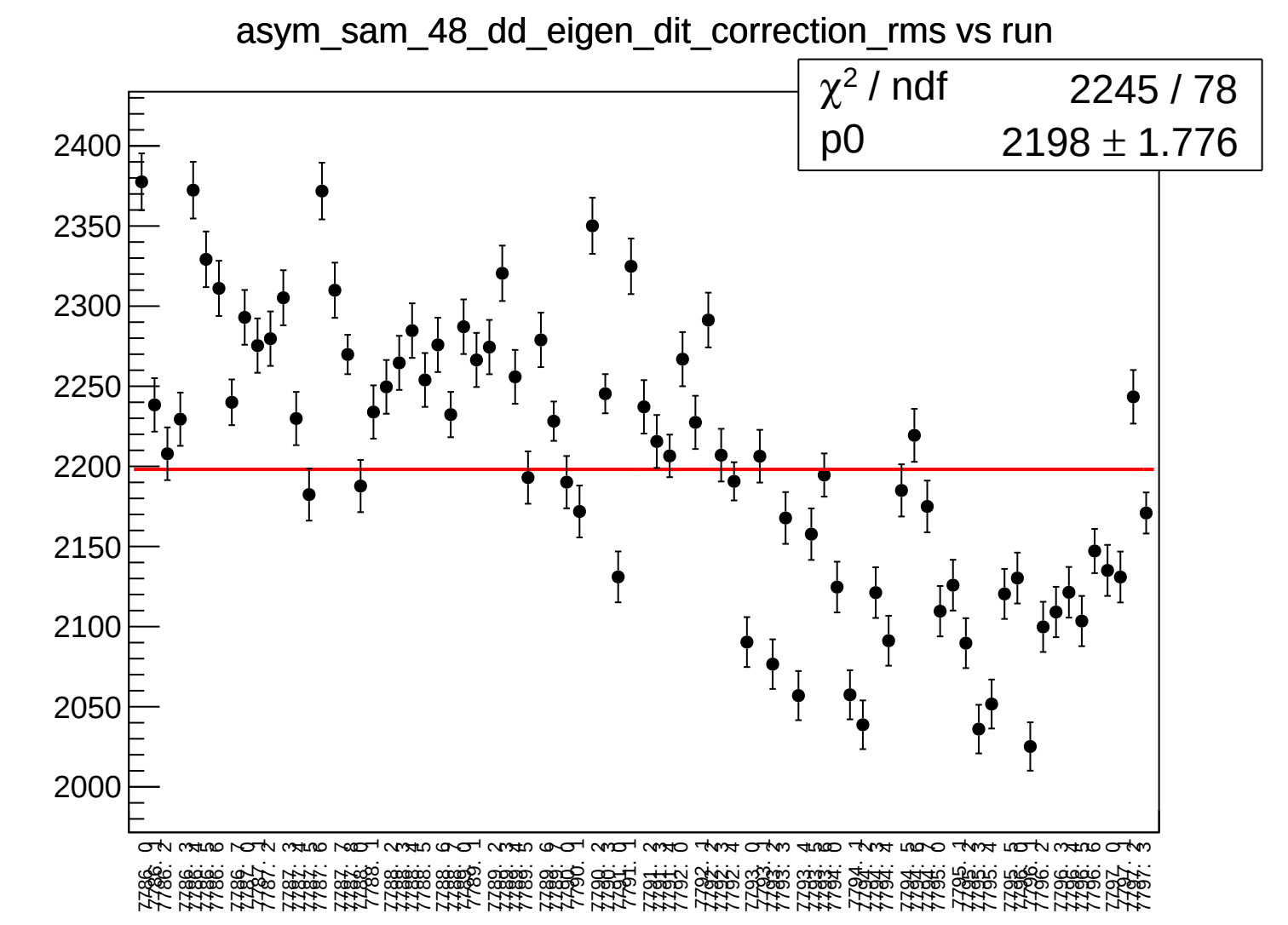

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 50.29 / 78
p0 −171.6 ± 216.9
pull
Entries 79
Mean 77.98
Std Dev 112.9

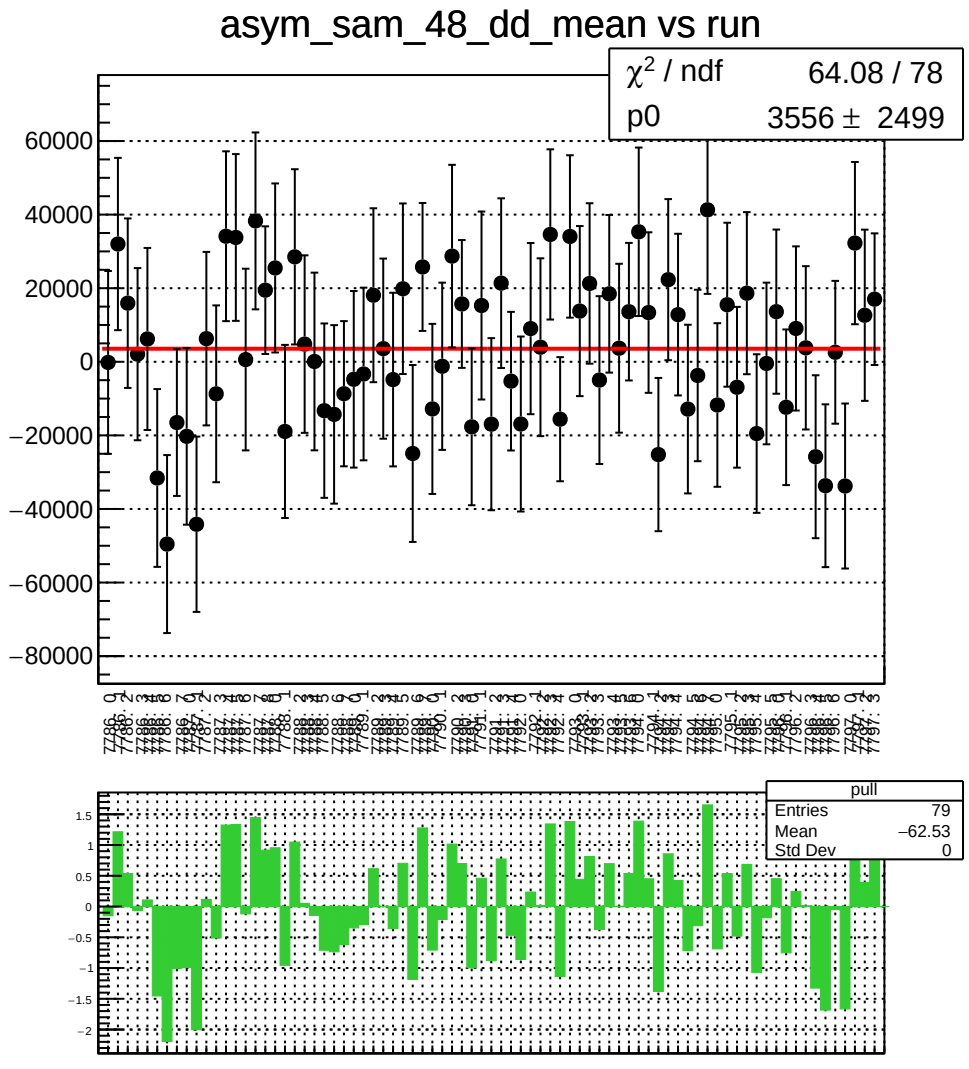

pull1D
Entries 79
Mean 0.003007
Std Dev 0.7978

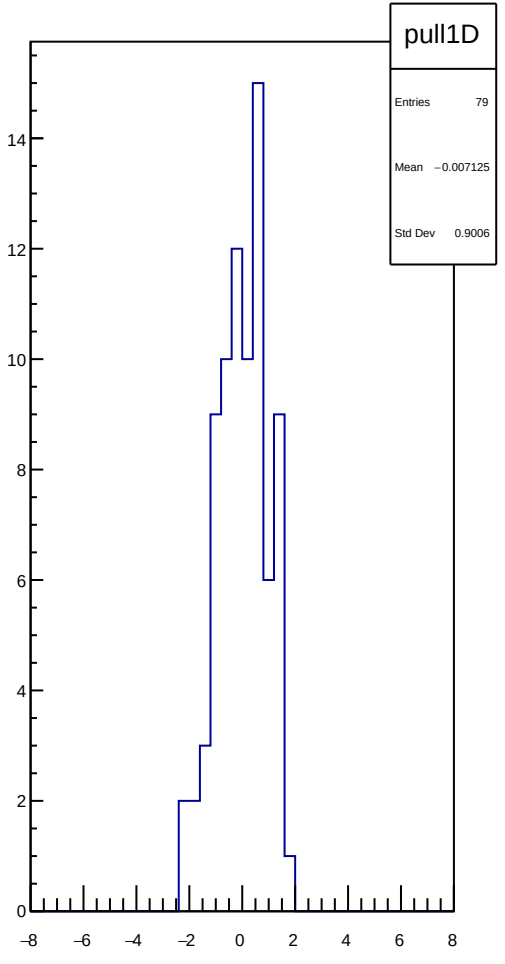

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 7739 / 78
p0 189.4 ± 0.1533
320
300
280
260
240
220
200
180
160

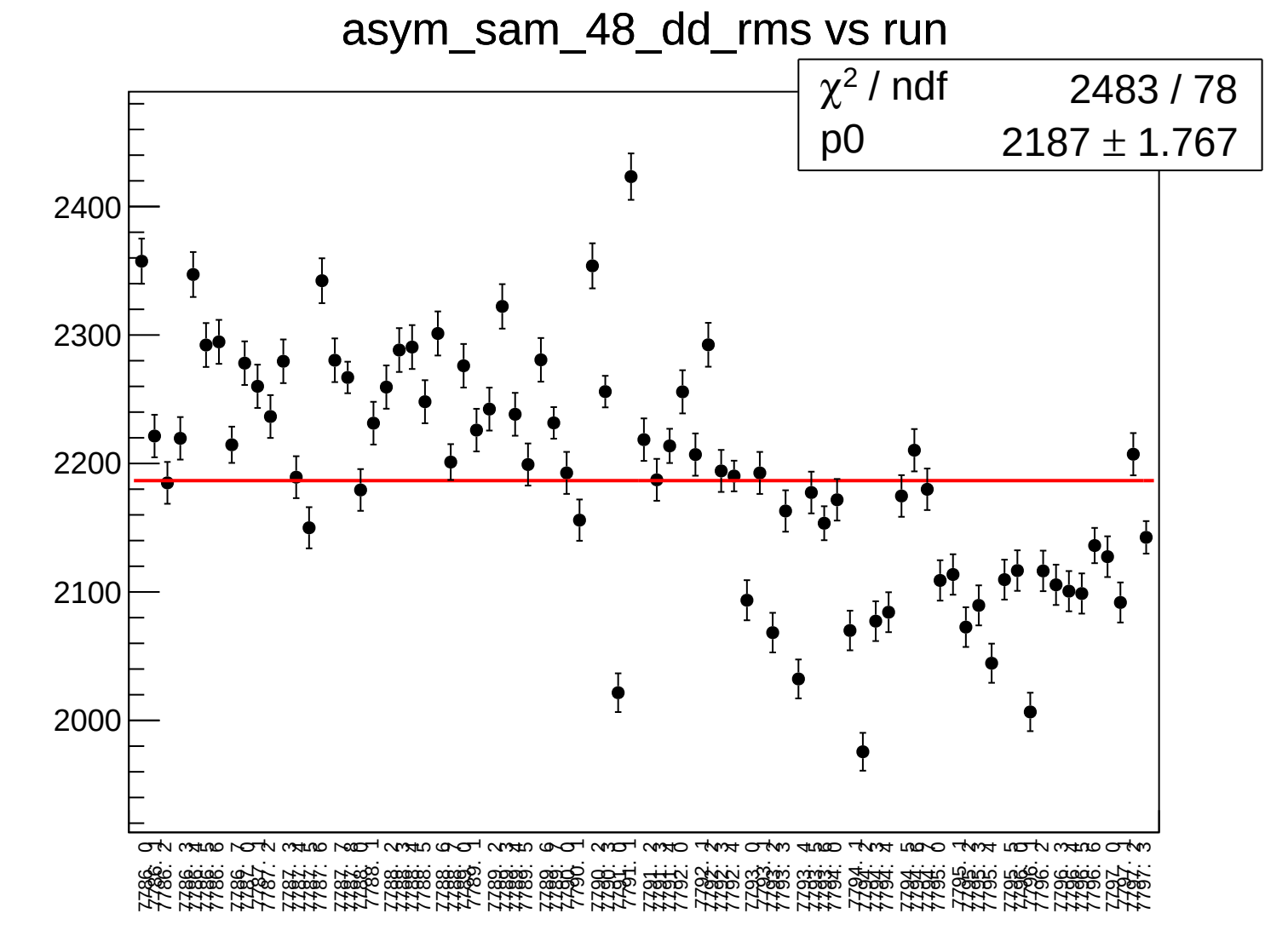

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.33 / 78
p0 −3806 ± 2512
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −40.04
Std Dev 28.32
2
1.5
1
0.5
0
−0.5
−1
−1.5

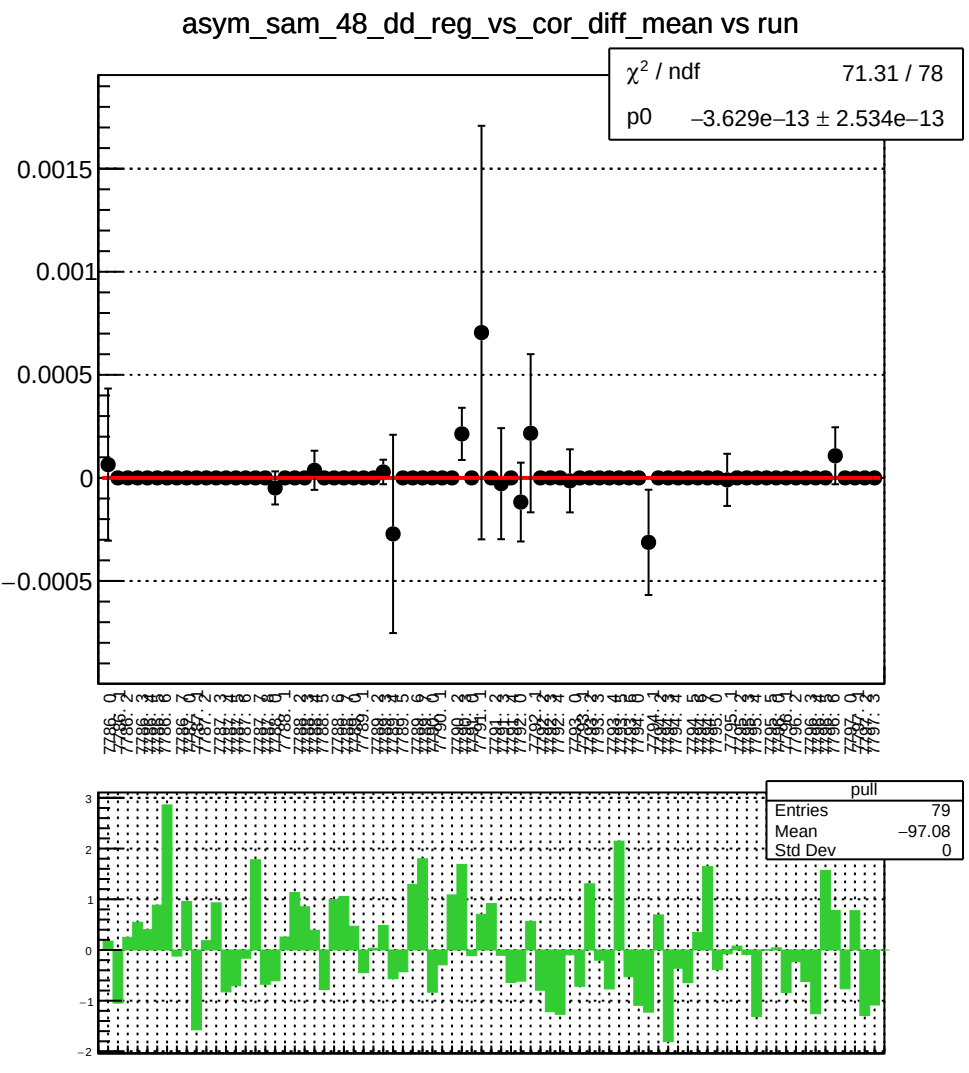

pull1D
Entries 79
Mean 0.009033
Std Dev 0.9163
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

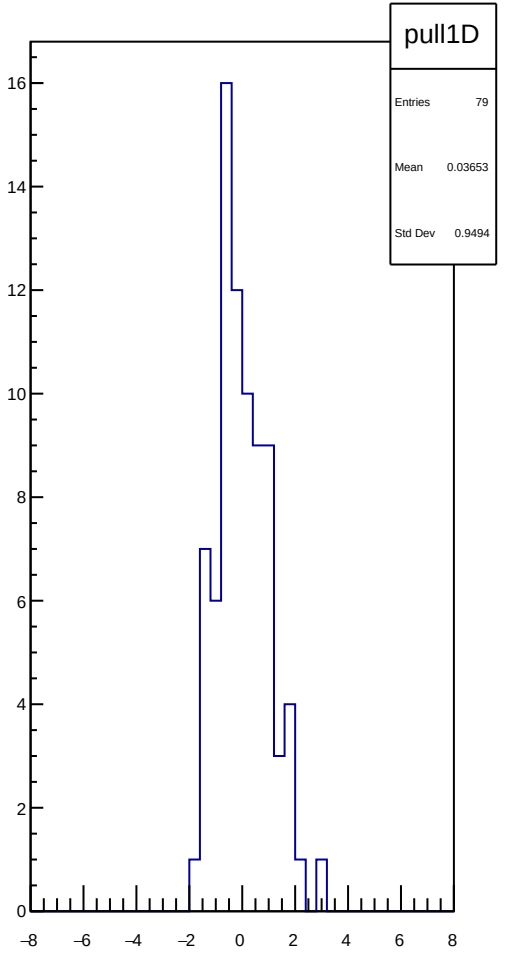

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2245 / 78
p0 2198 ± 1.776
2400
2350
2300
2250
2200
2150
2100
2050
2000

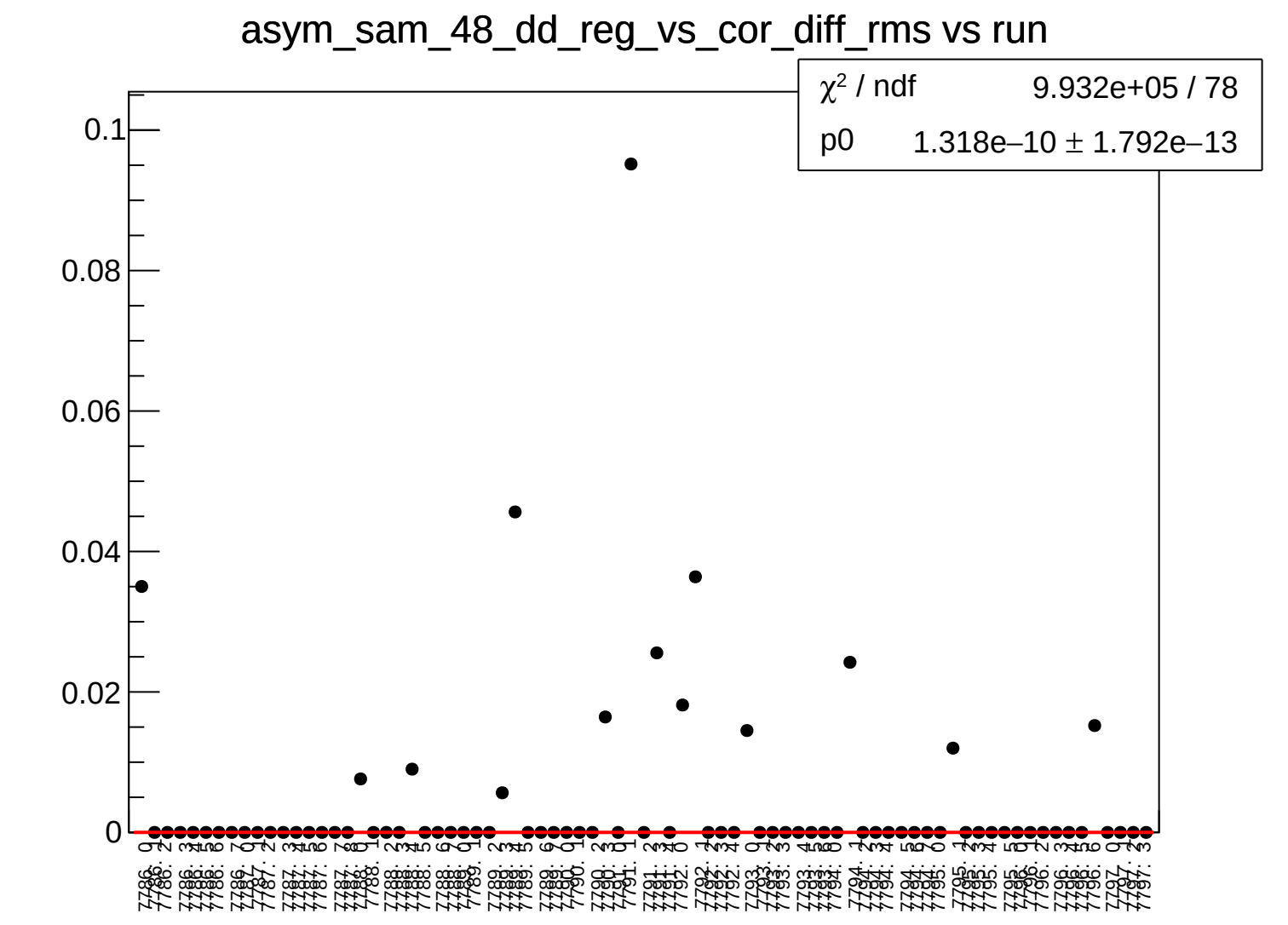

asym_sam_48_dd_mean vs run
χ² / ndf 64.08 / 78
p0 3556 ± 2499
pull
Entries 79
Mean −62.53
Std Dev 0

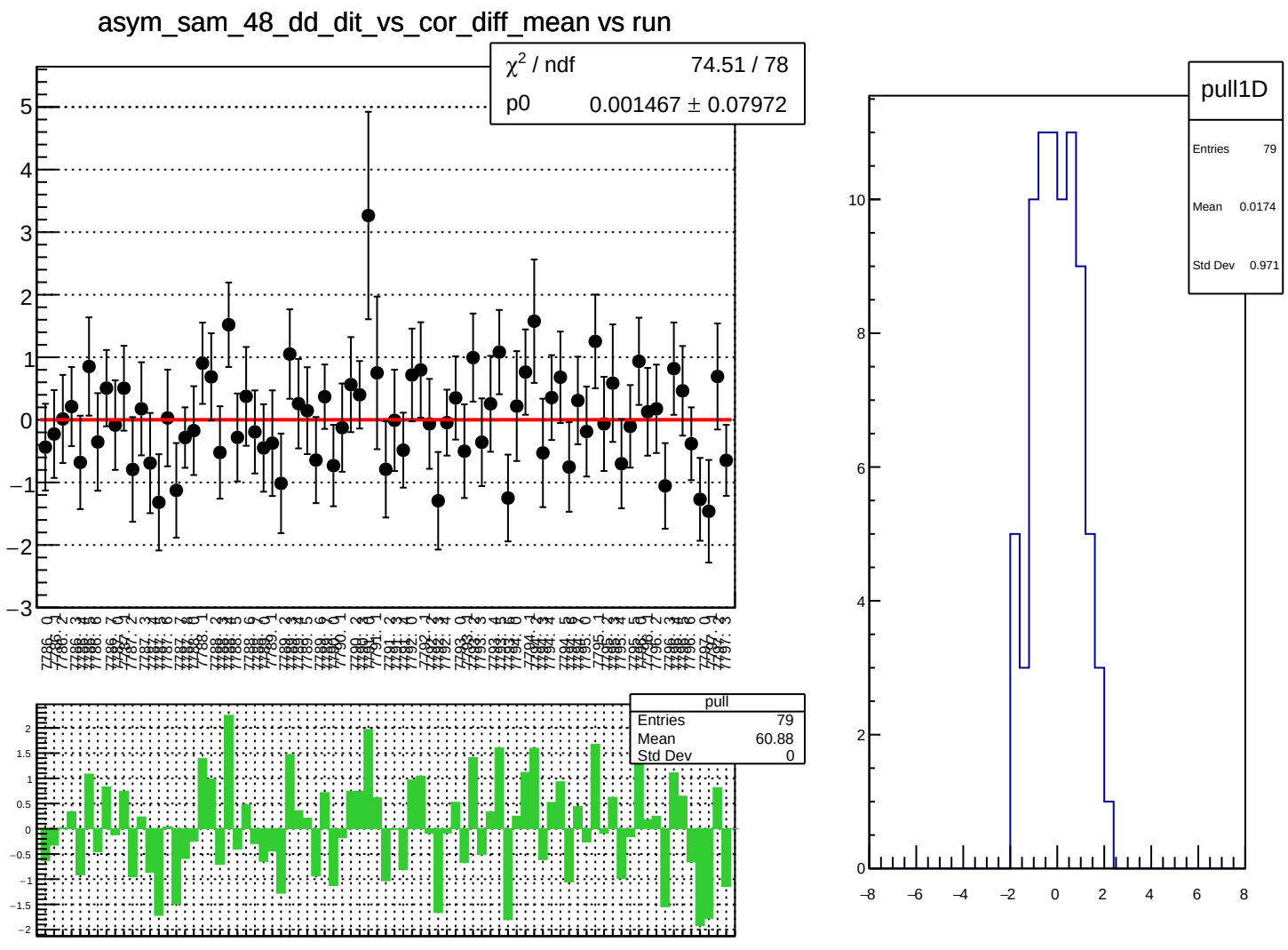

pull1D
Entries 79
Mean −0.007125
Std Dev 0.9006

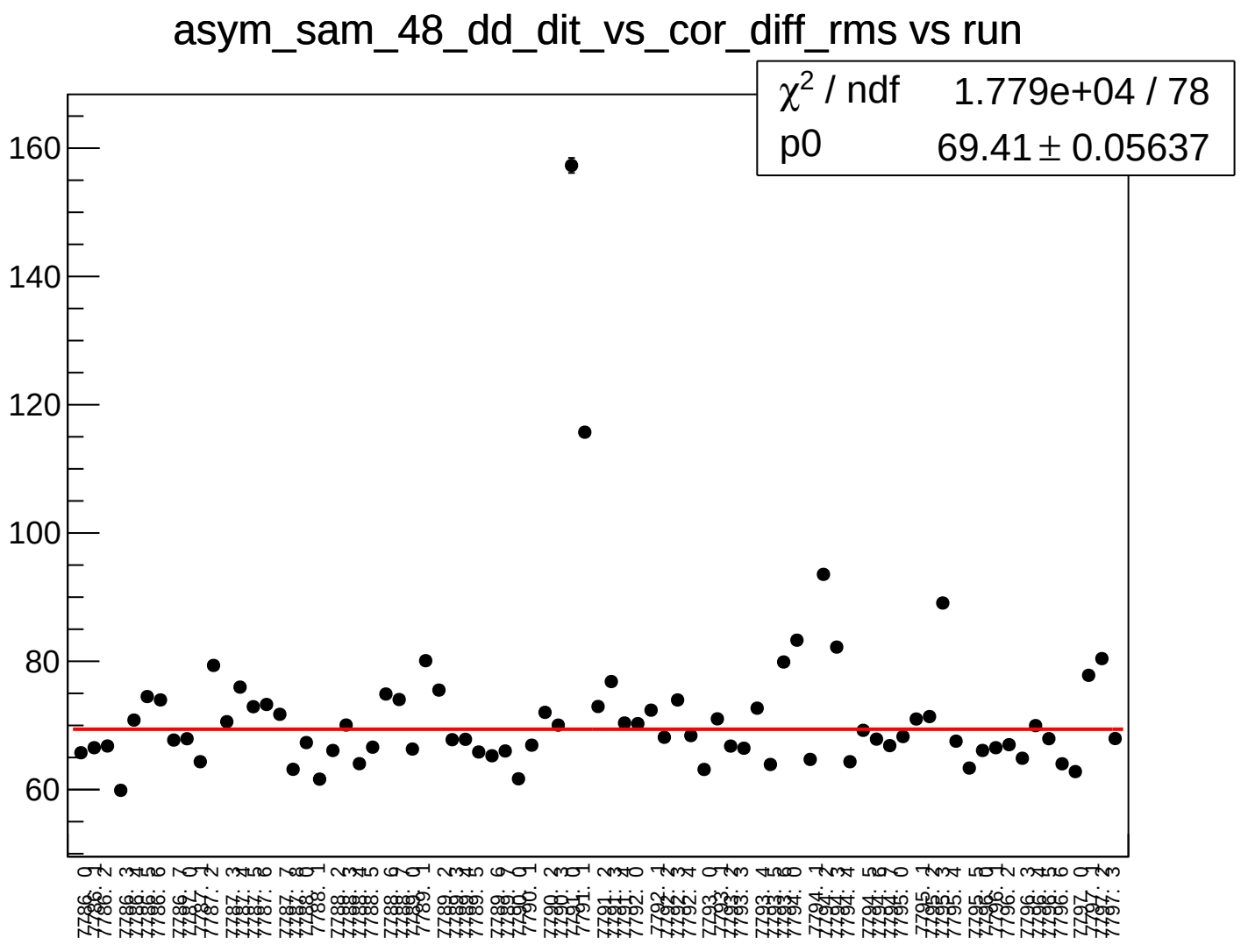

asym_sam_48_dd_rms vs run
χ² / ndf 2483 / 78
p0 2187 ± 1.767
2400
2300
2200
2100
2000

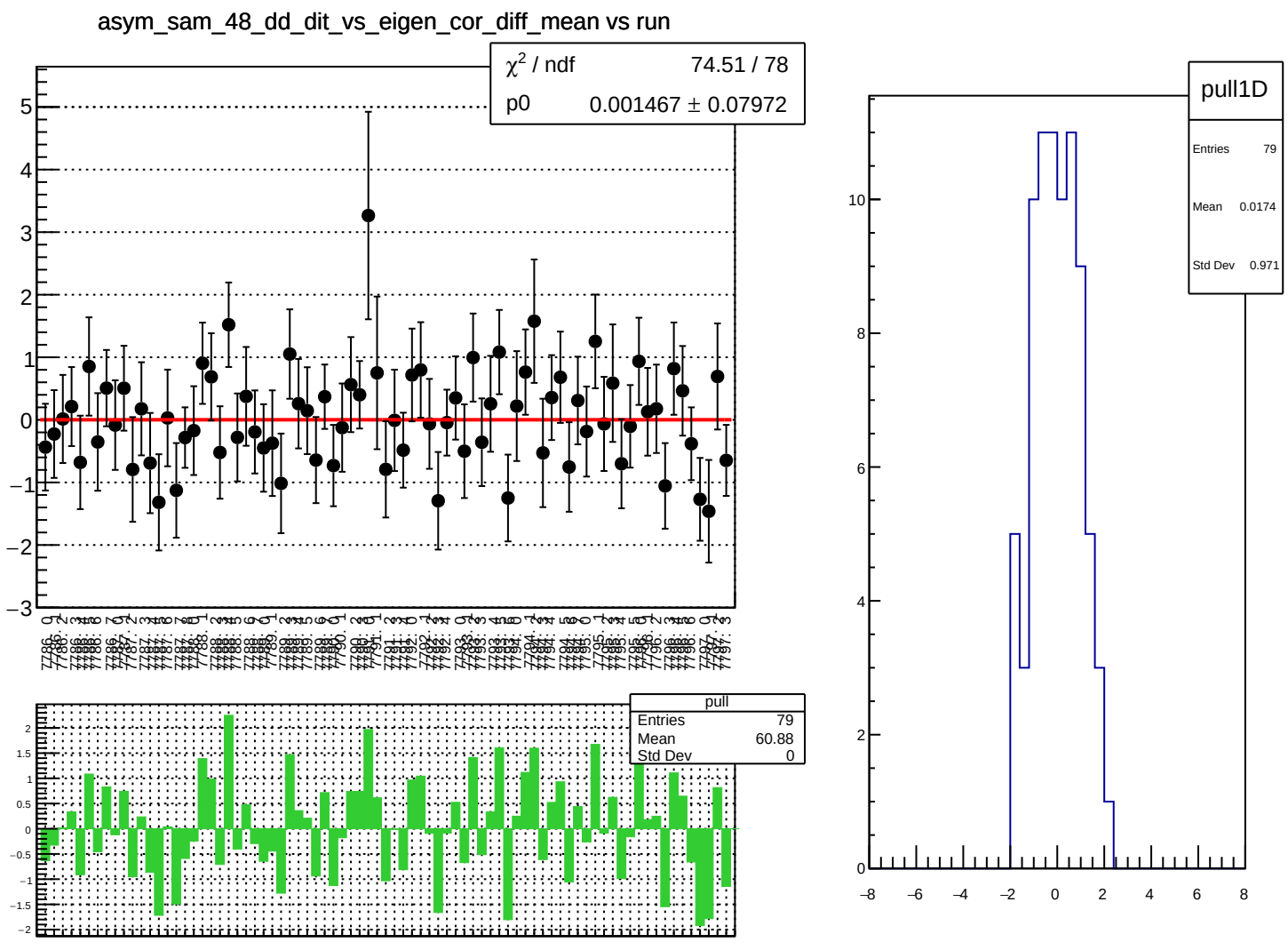

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.31 / 78
p0 −3.629e−13 ± 2.534e−13
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 79
Mean −97.08
Std Dev 0
3
2
1
0
−1
−2

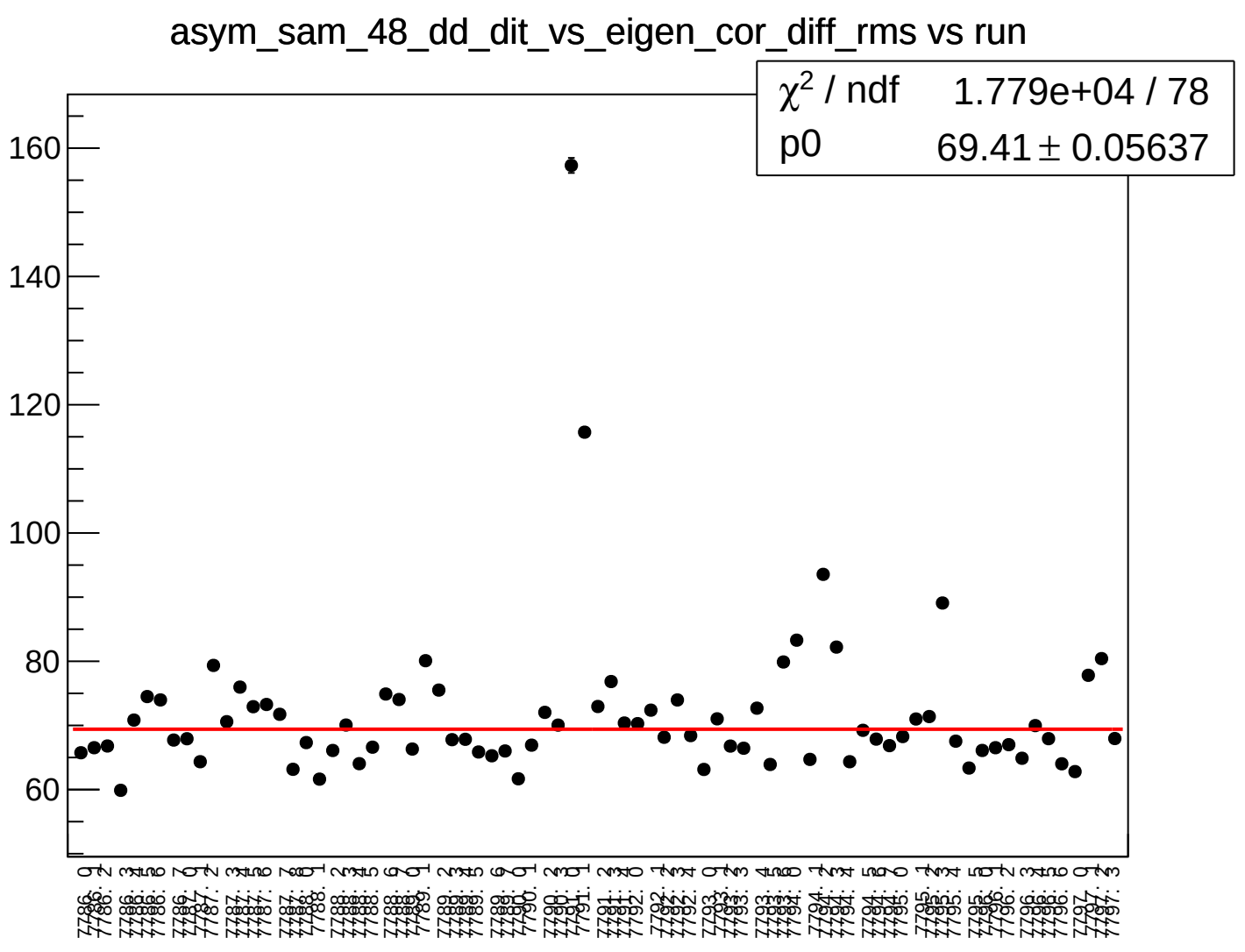

pull1D
Entries 79
Mean 0.03653
Std Dev 0.9494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

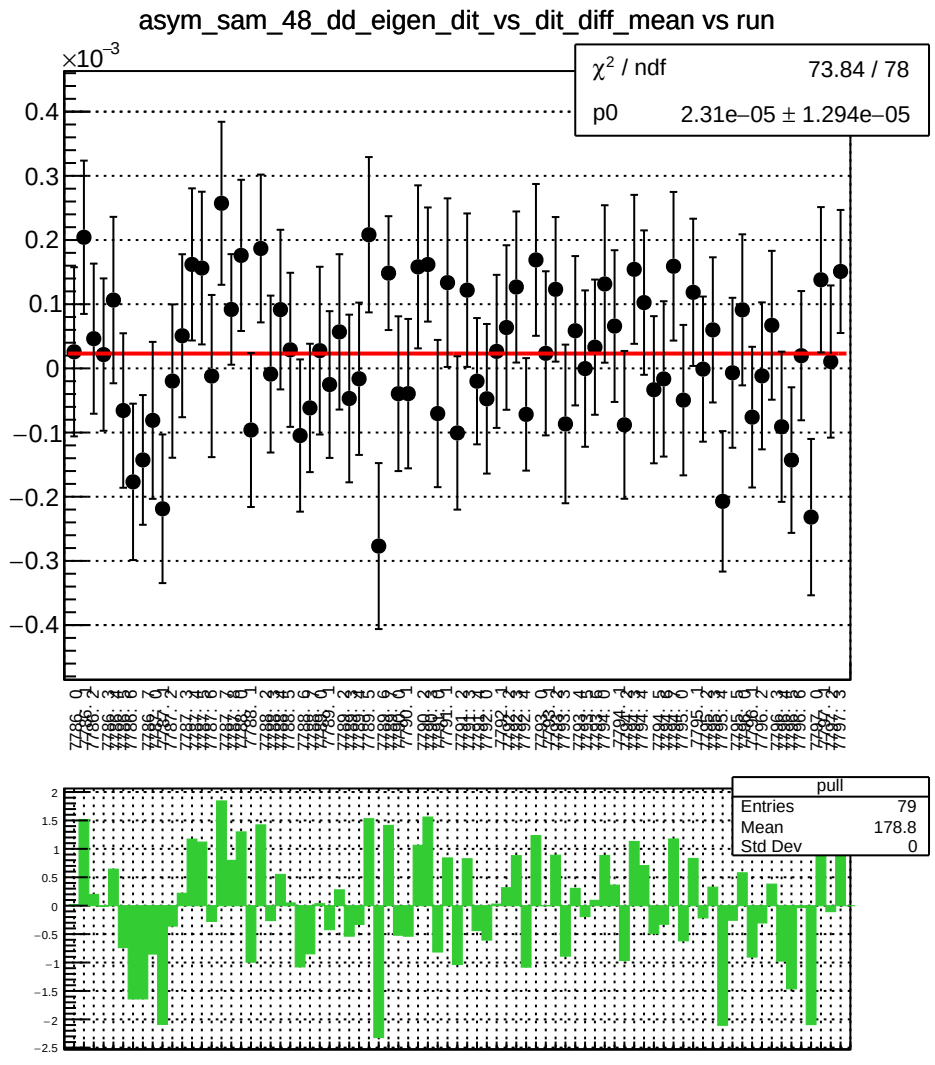

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.932e+05 / 78
p0 1.318e−10 ± 1.792e−13
0.1
0.08
0.06
0.04
0.02
0

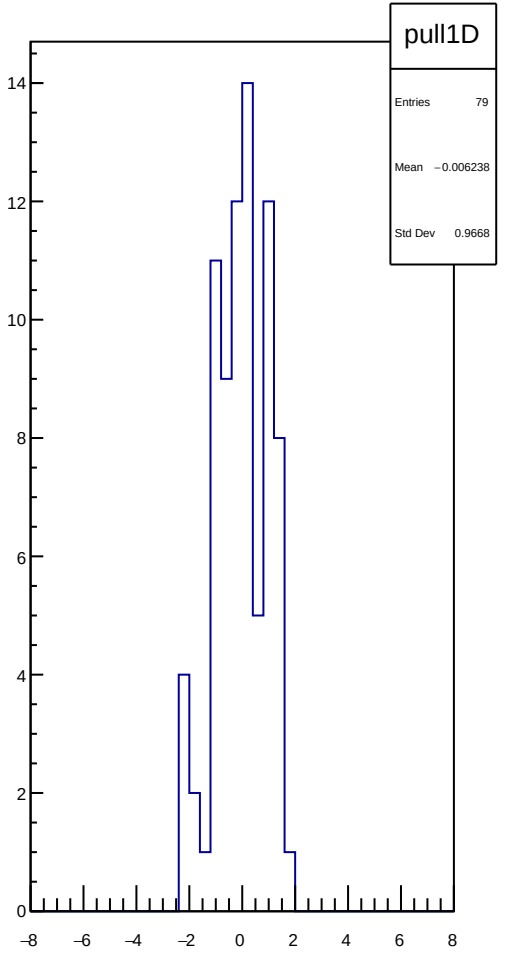

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.51 / 78
p0 0.001467 ± 0.07972
pull
Entries 79
Mean 60.88
Std Dev 0
pull1D
Entries 79
Mean 0.0174
Std Dev 0.971

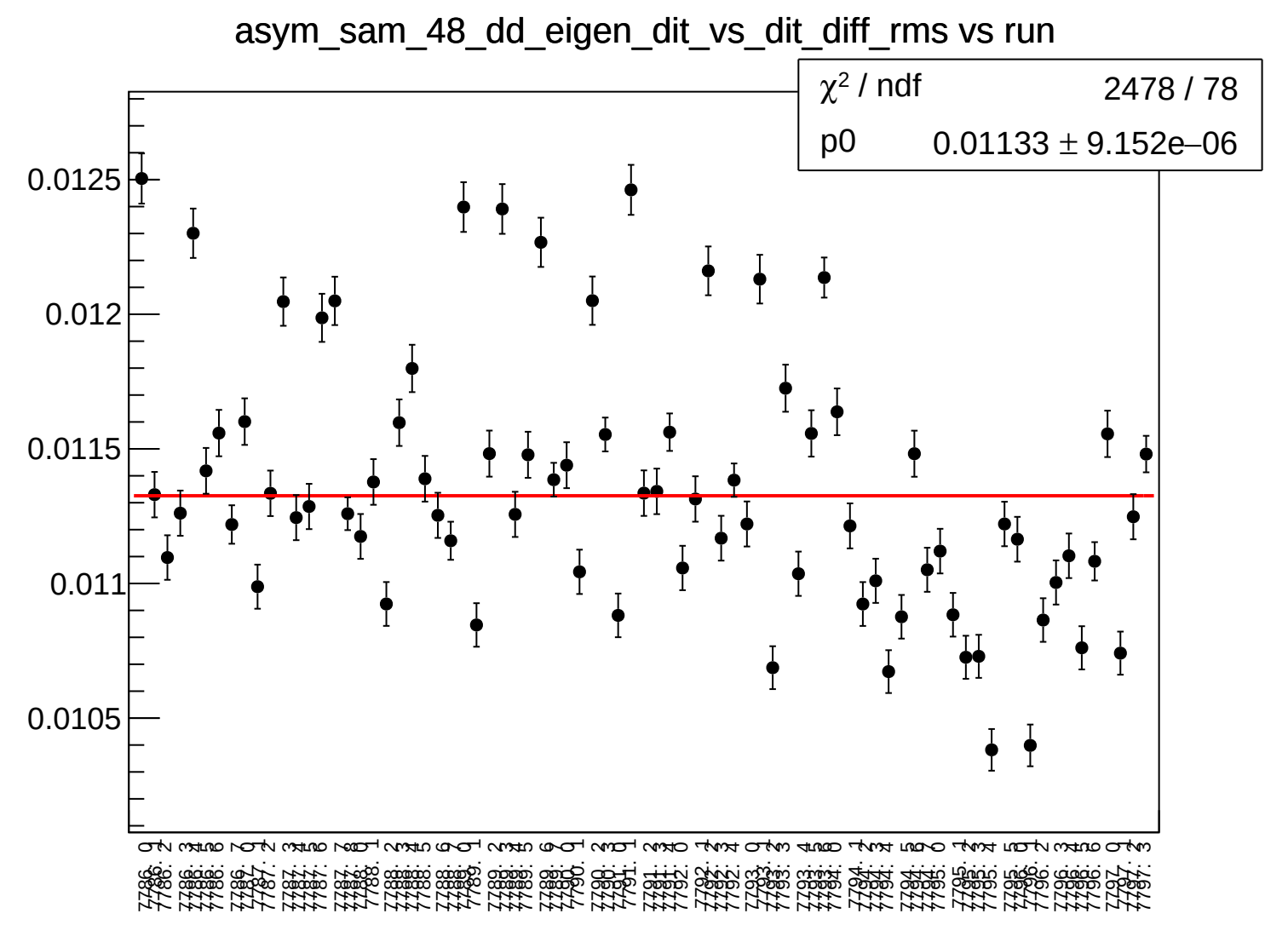

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.779e+04 / 78
p0 69.41 ± 0.05637
160
140
120
100
80
60

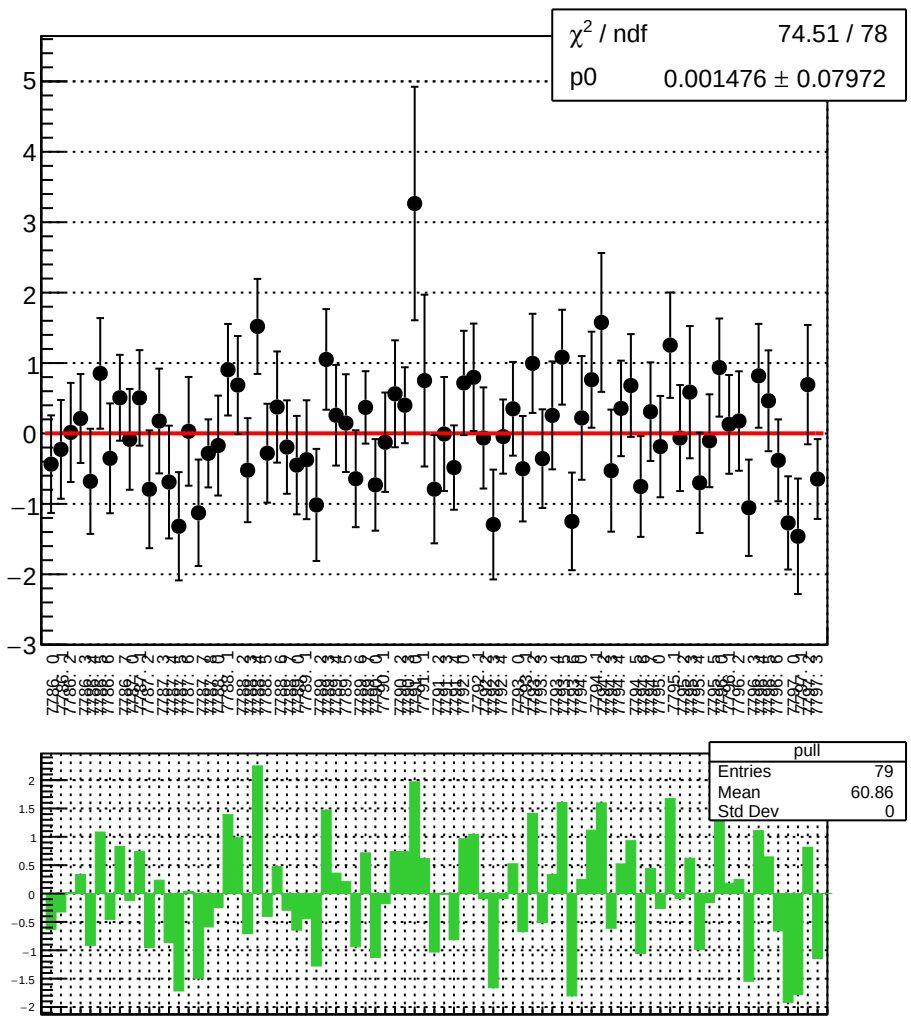

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.51 / 78
p0 0.001467 ± 0.07972
pull
Entries 79
Mean 60.88
Std Dev 0
pull1D
Entries 79
Mean 0.0174
Std Dev 0.971

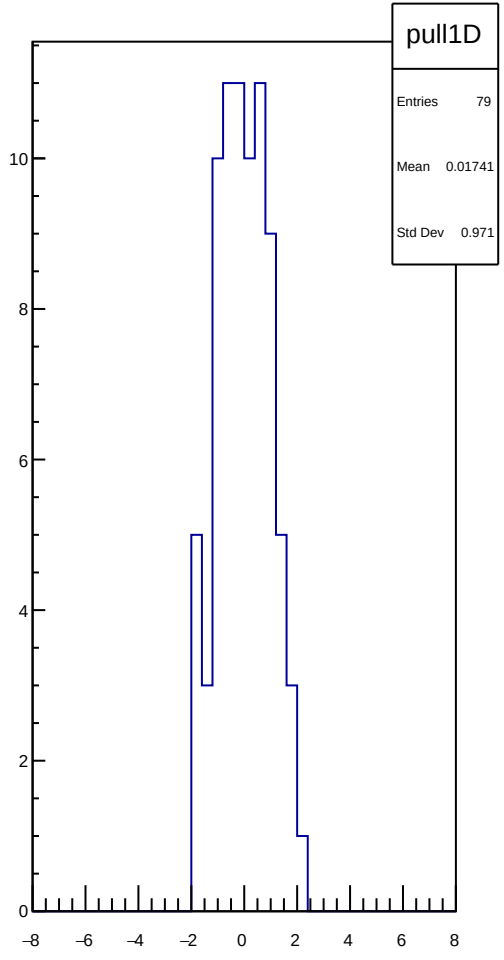

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.779e+04 / 78
p0 69.41 ± 0.05637
160
140
120
100
80
60

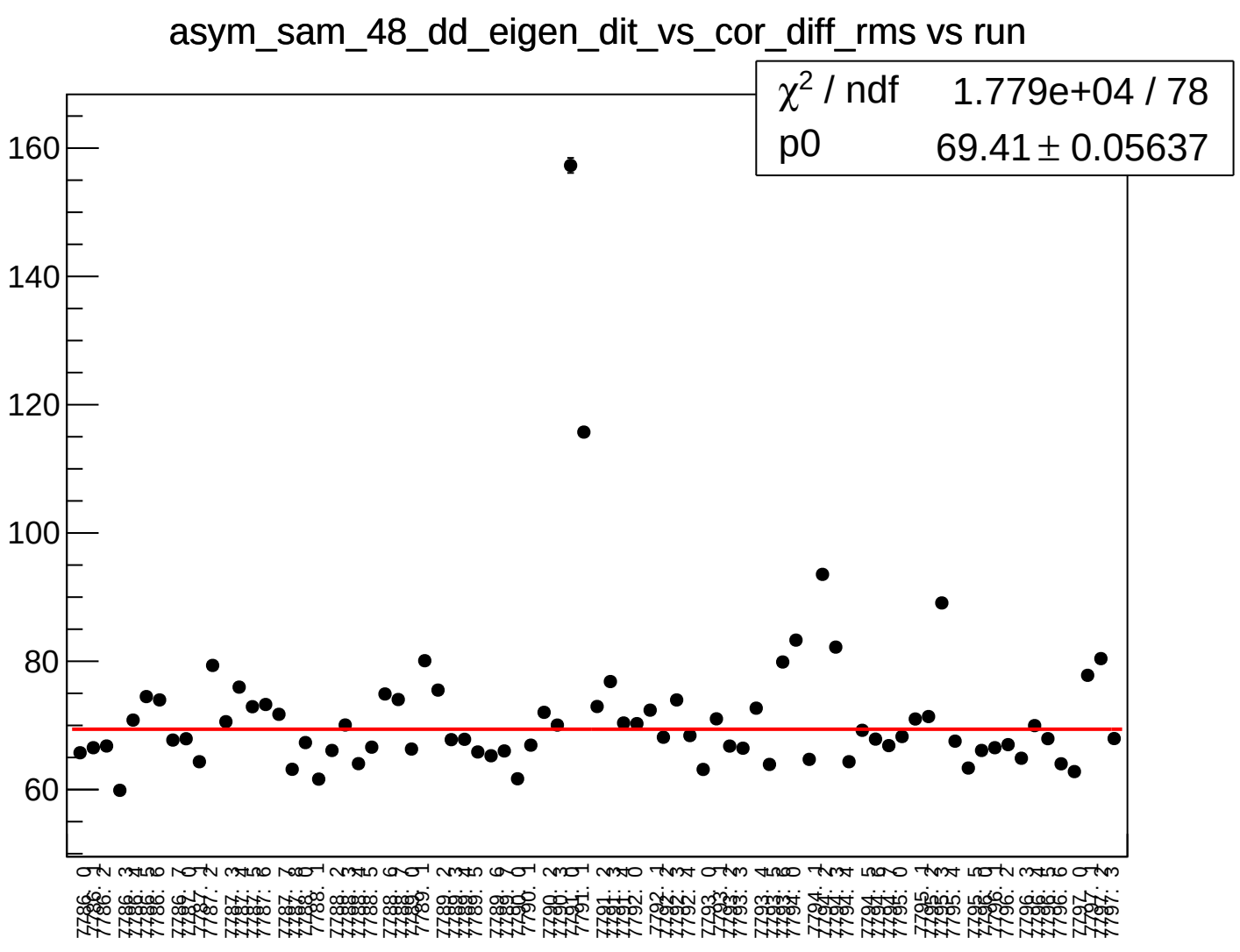

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.84 / 78
p0 2.31e−05 ± 1.294e−05
pull
Entries 79
Mean 178.8
Std Dev 0

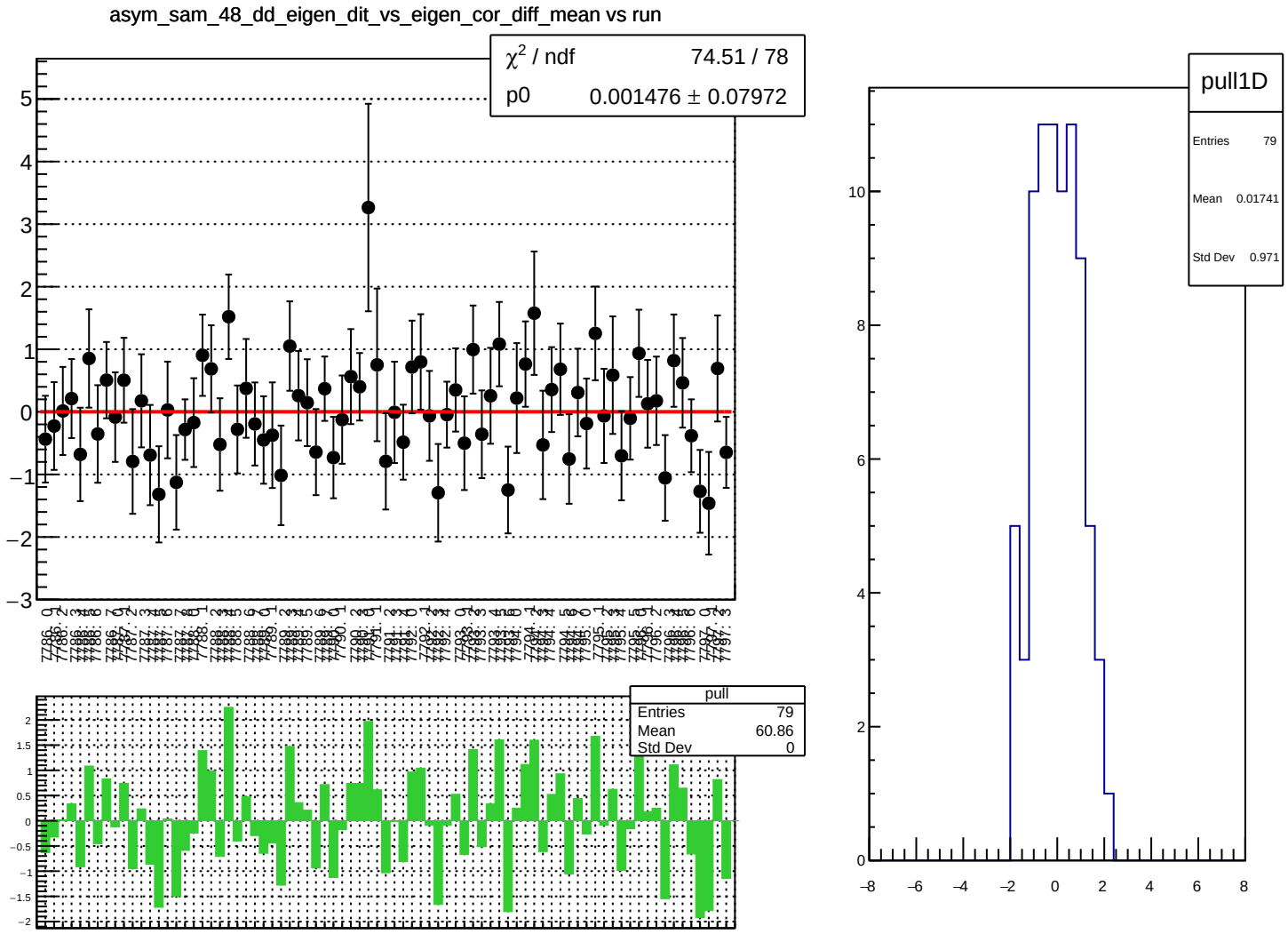

pull1D
Entries 79
Mean −0.006238
Std Dev 0.9668

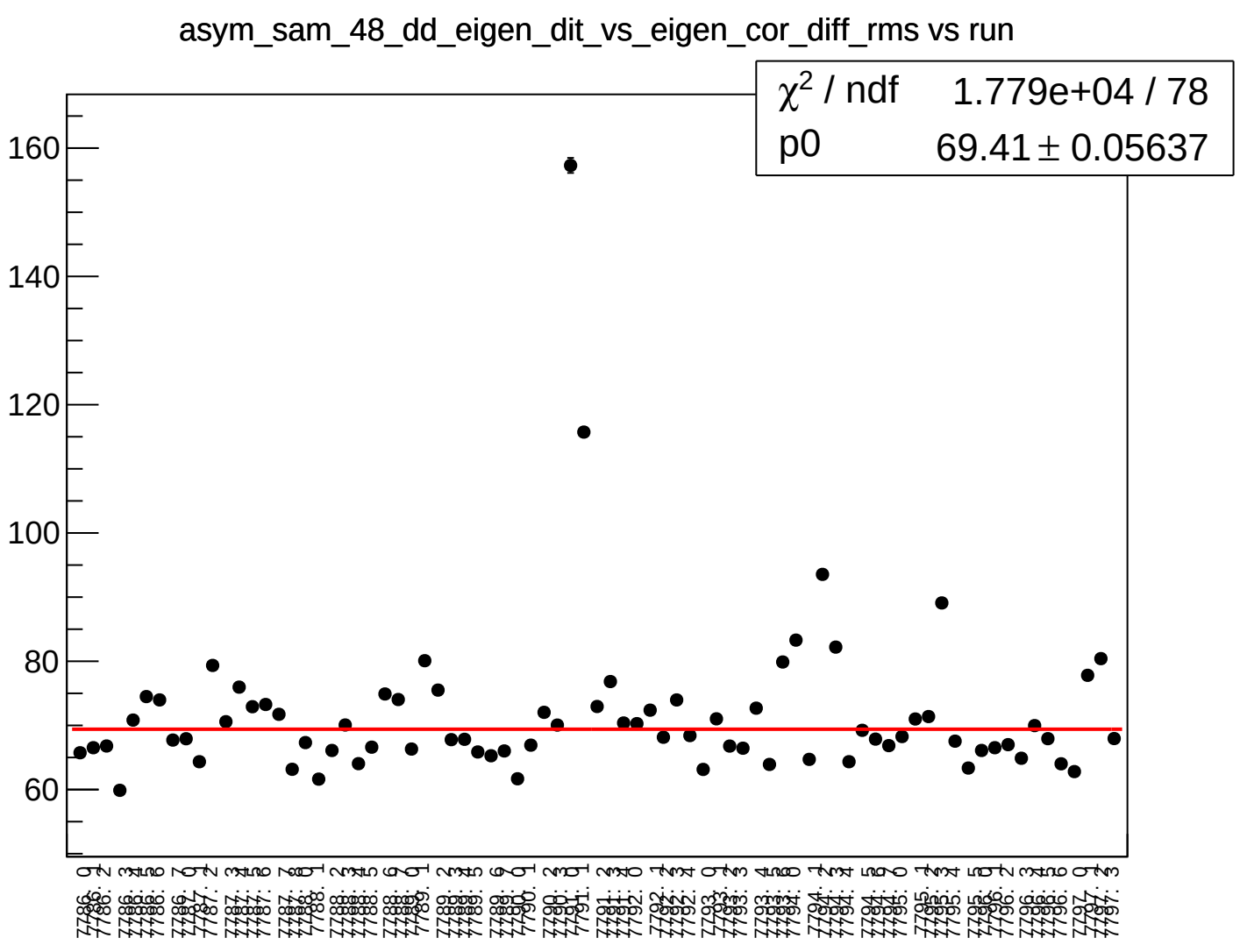

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2478 / 78
p0 0.01133 ± 9.152e–06
0.0125
0.012
0.0115
0.011
0.0105

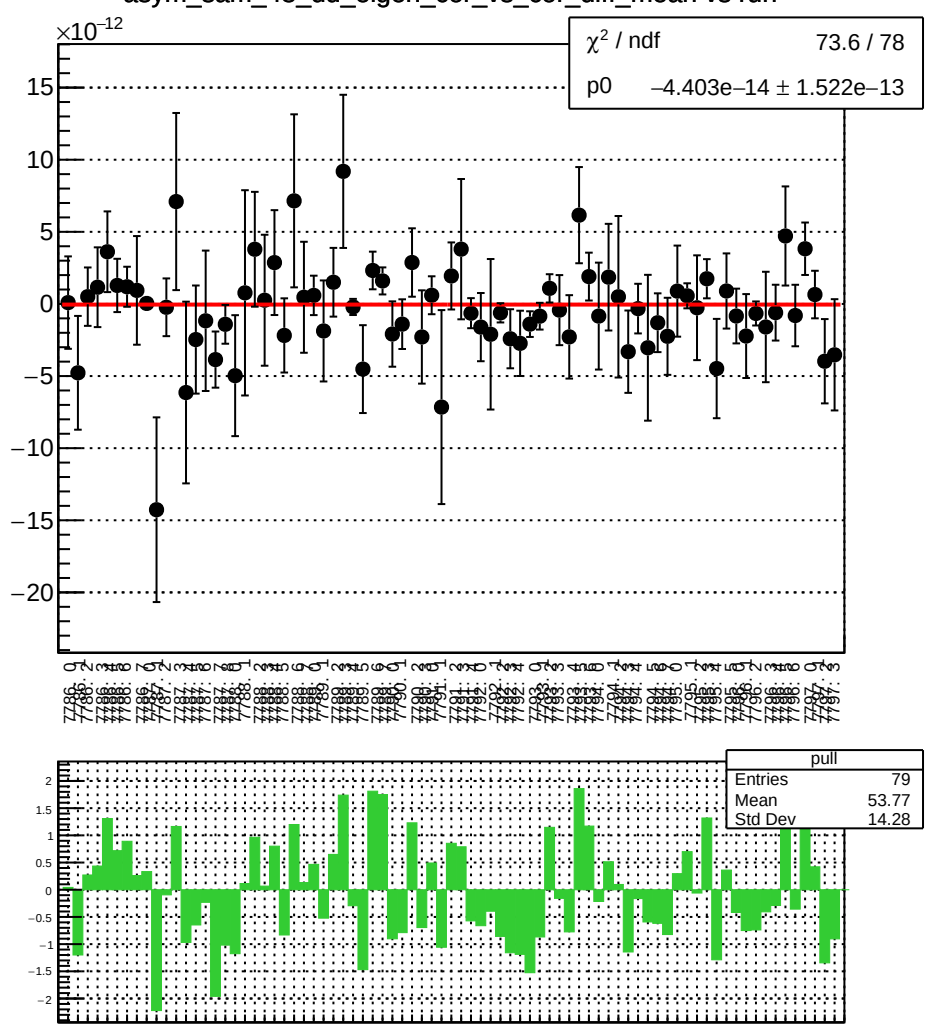

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.51 / 78
p0 0.001476 ± 0.07972
pull
Entries 79
Mean 60.86
Std Dev 0

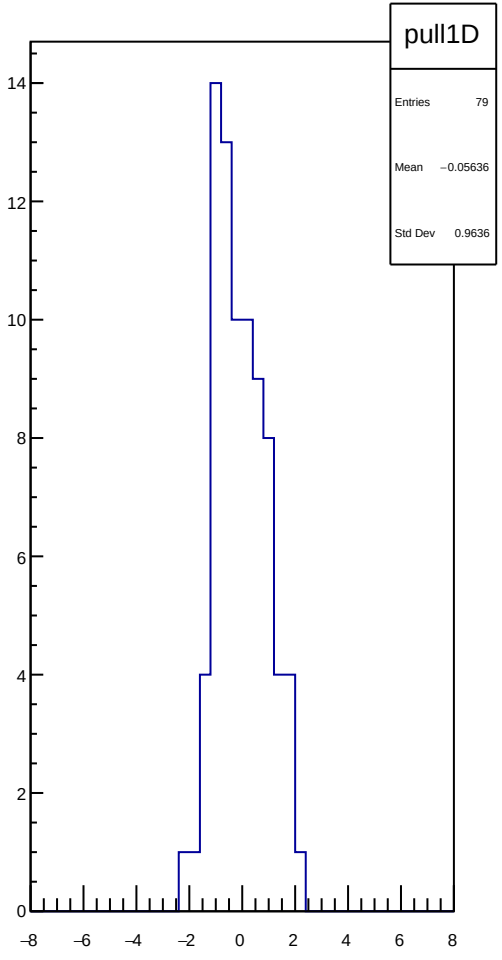

pull1D
Entries 79
Mean 0.01741
Std Dev 0.971

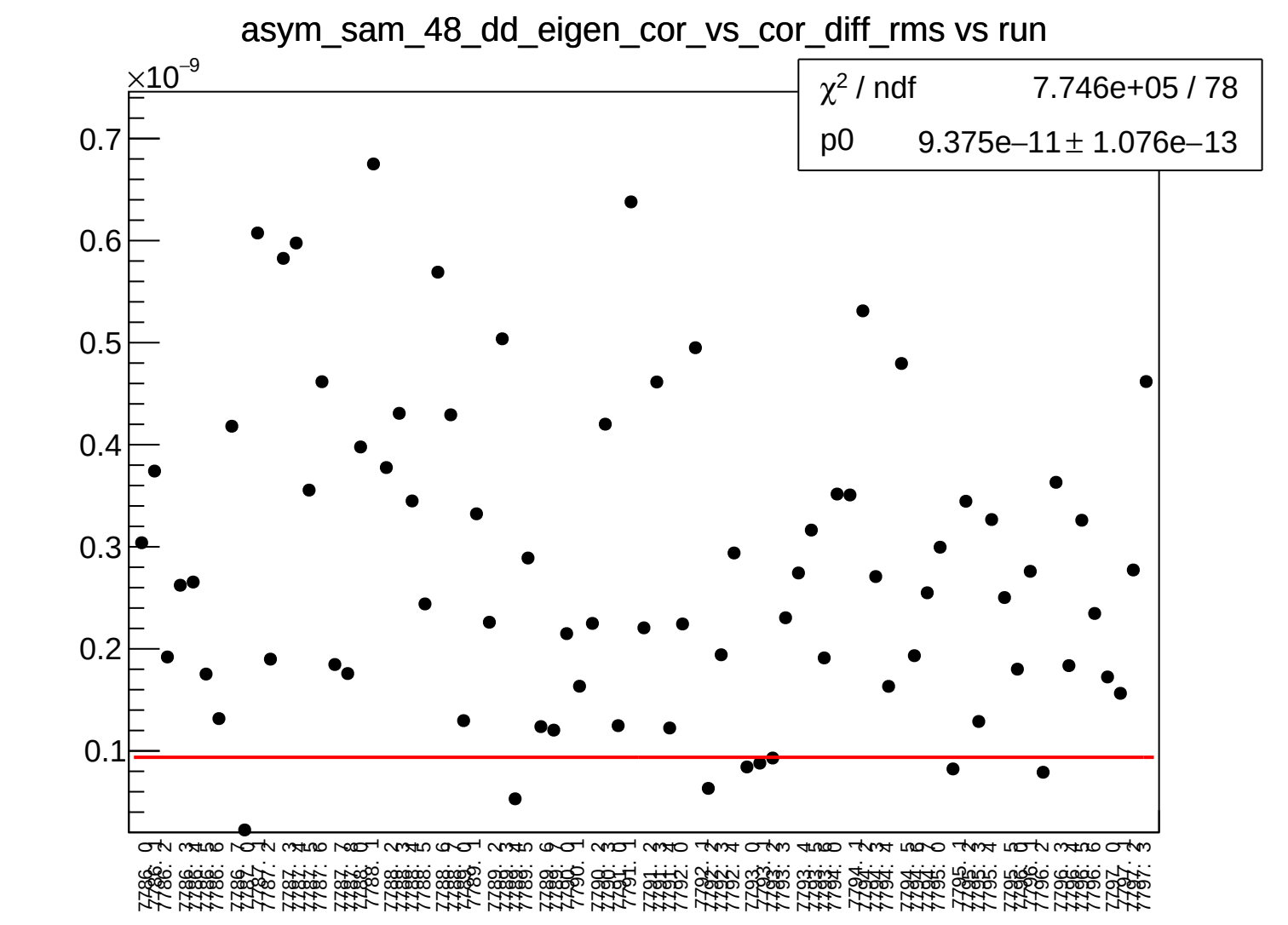

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.779e+04 / 78
p0 69.41 ± 0.05637
160
140
120
100
80
60

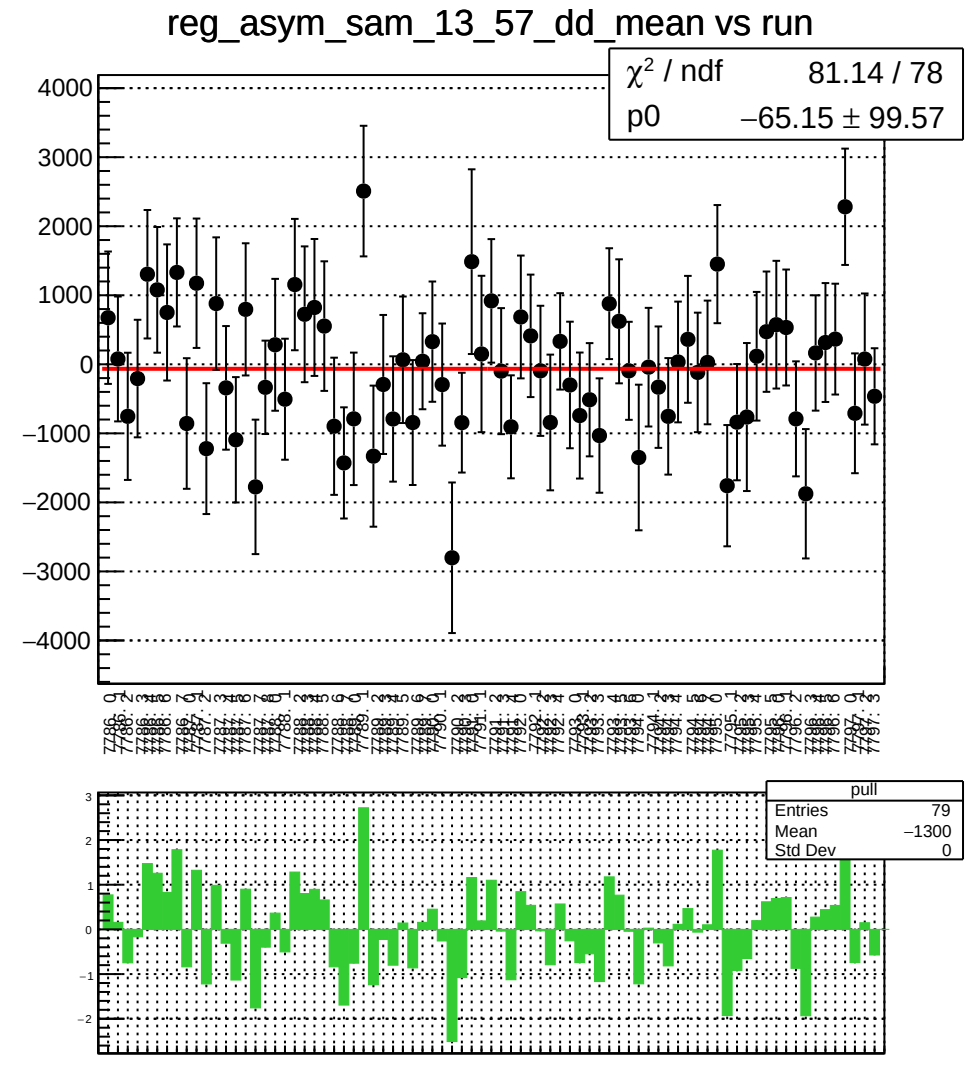

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.51 / 78
p0 0.001476 ± 0.07972
pull
Entries 79
Mean 60.86
Std Dev 0
pull1D
Entries 79
Mean 0.01741
Std Dev 0.971

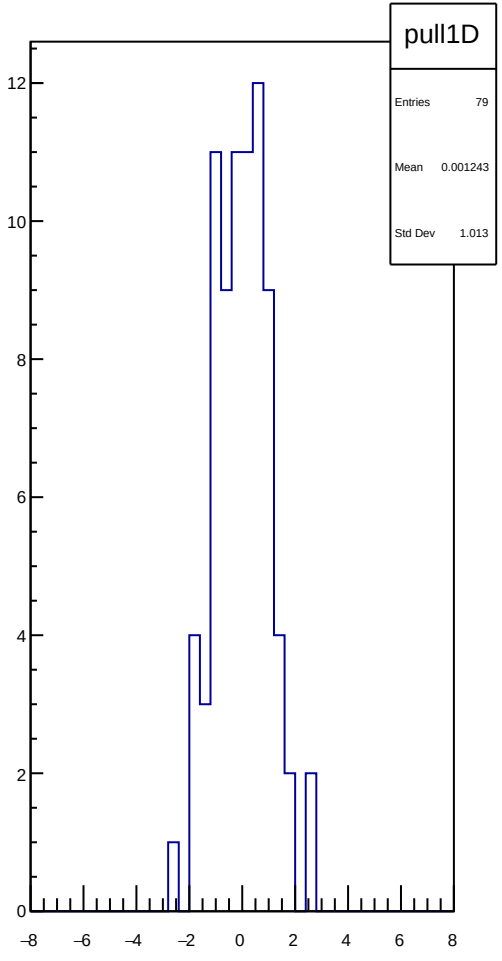

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.779e+04 / 78
p0 69.41 ± 0.05637
160
140
120
100
80
60

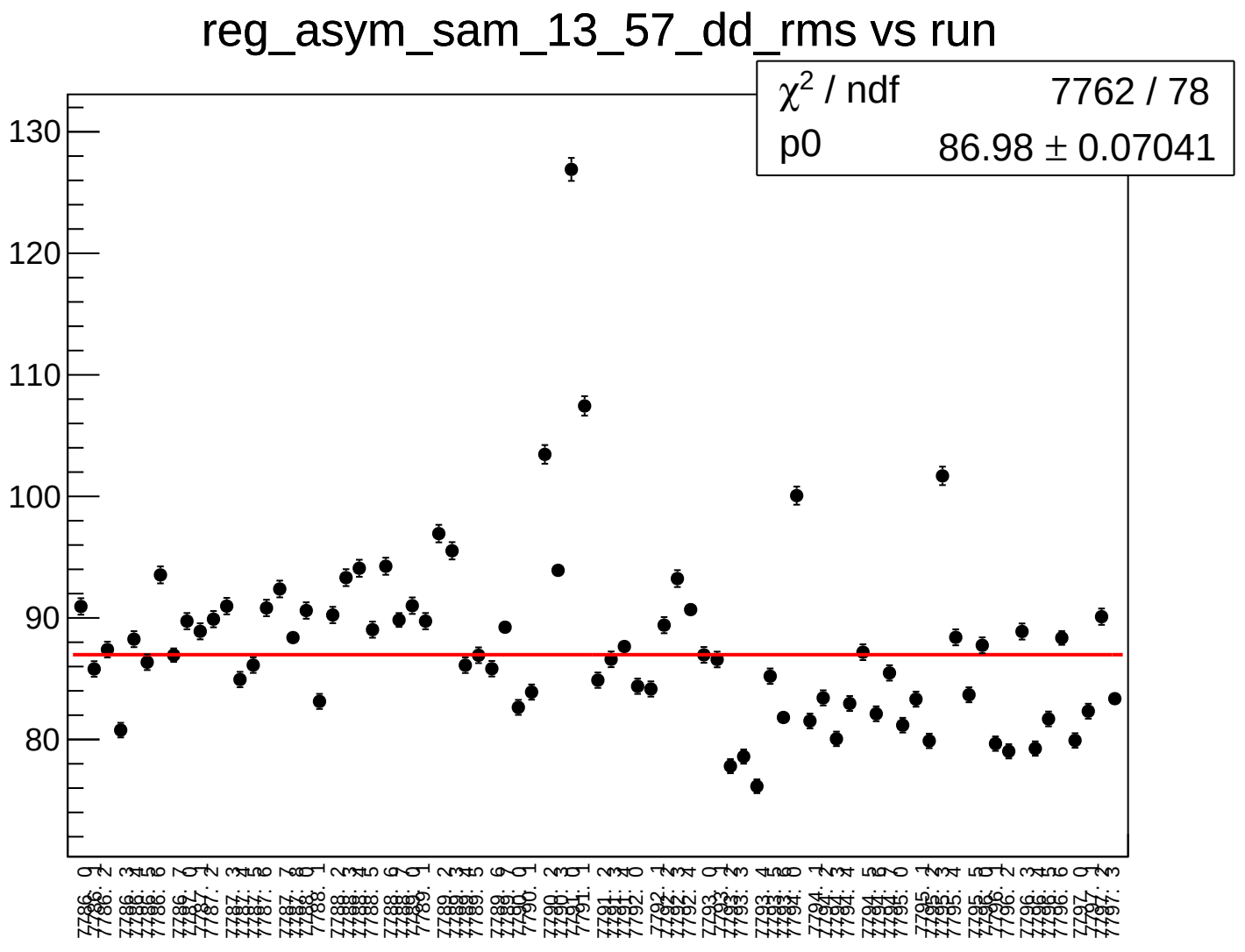

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.6 / 78
p0 −4.403e−14 ± 1.522e−13
pull
Entries 79
Mean 53.77
Std Dev 14.28

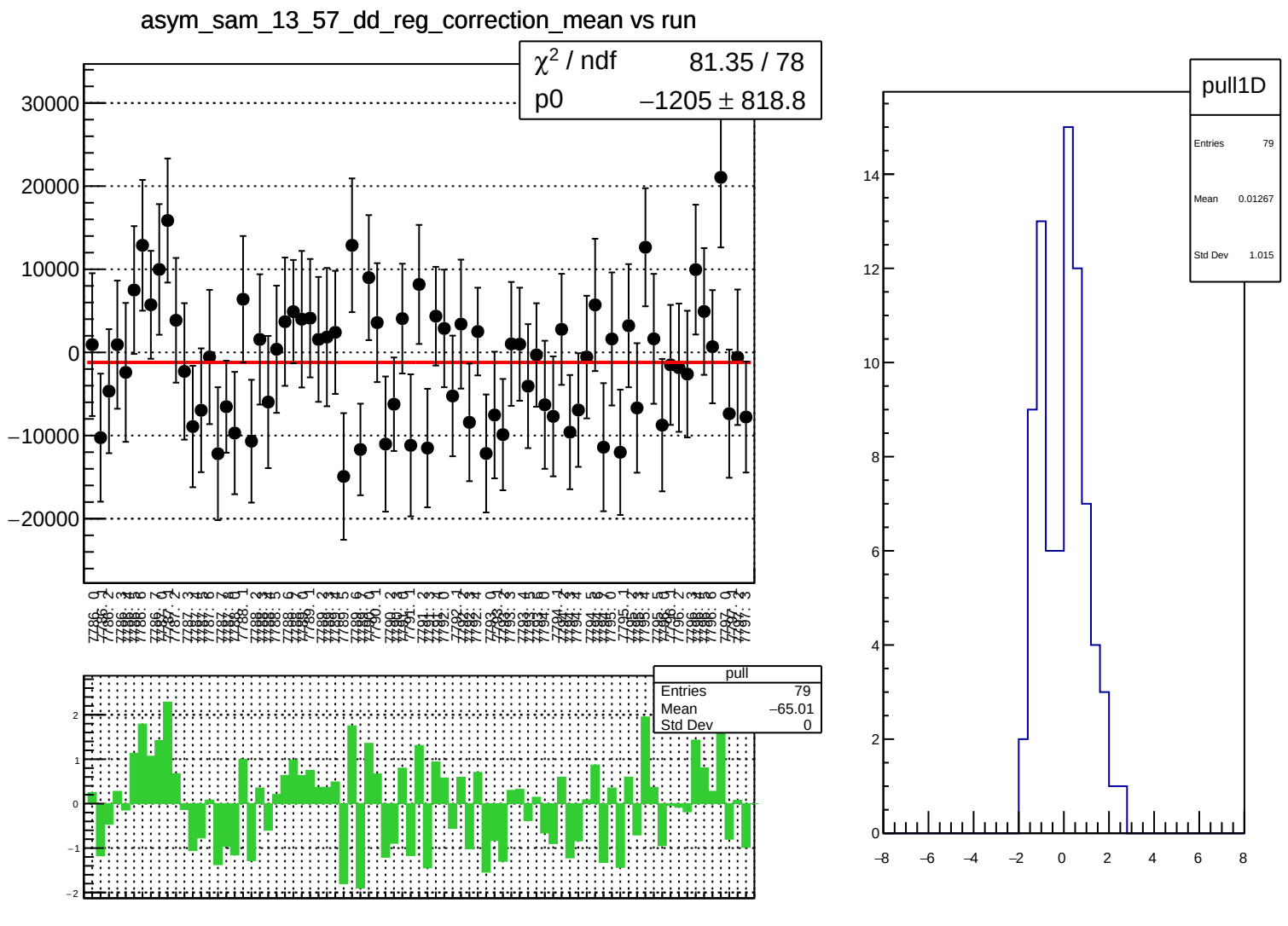

pull1D
Entries 79
Mean −0.05636
Std Dev 0.9636

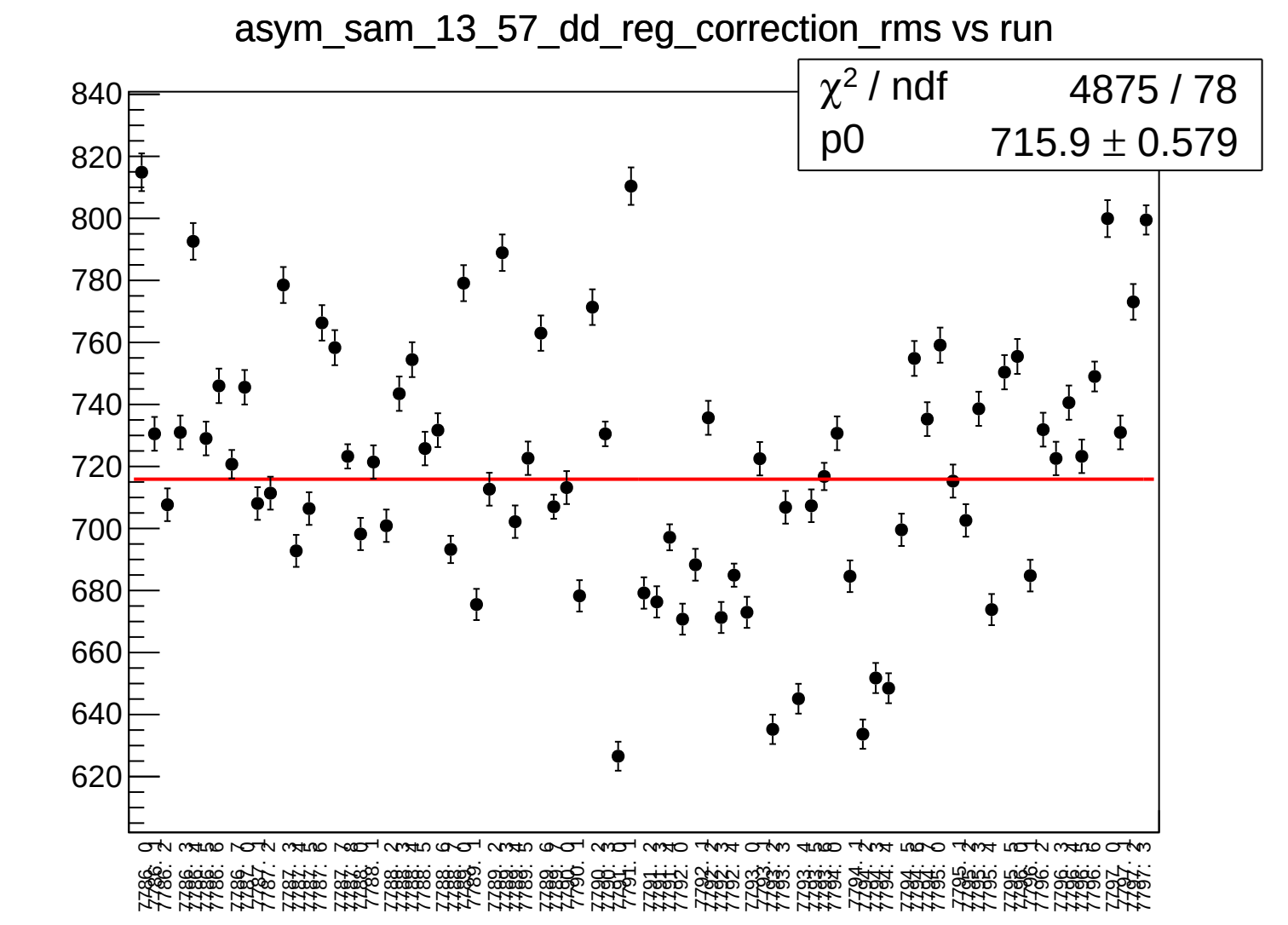

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.746e+05 / 78
p0 9.375e−11 ± 1.076e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

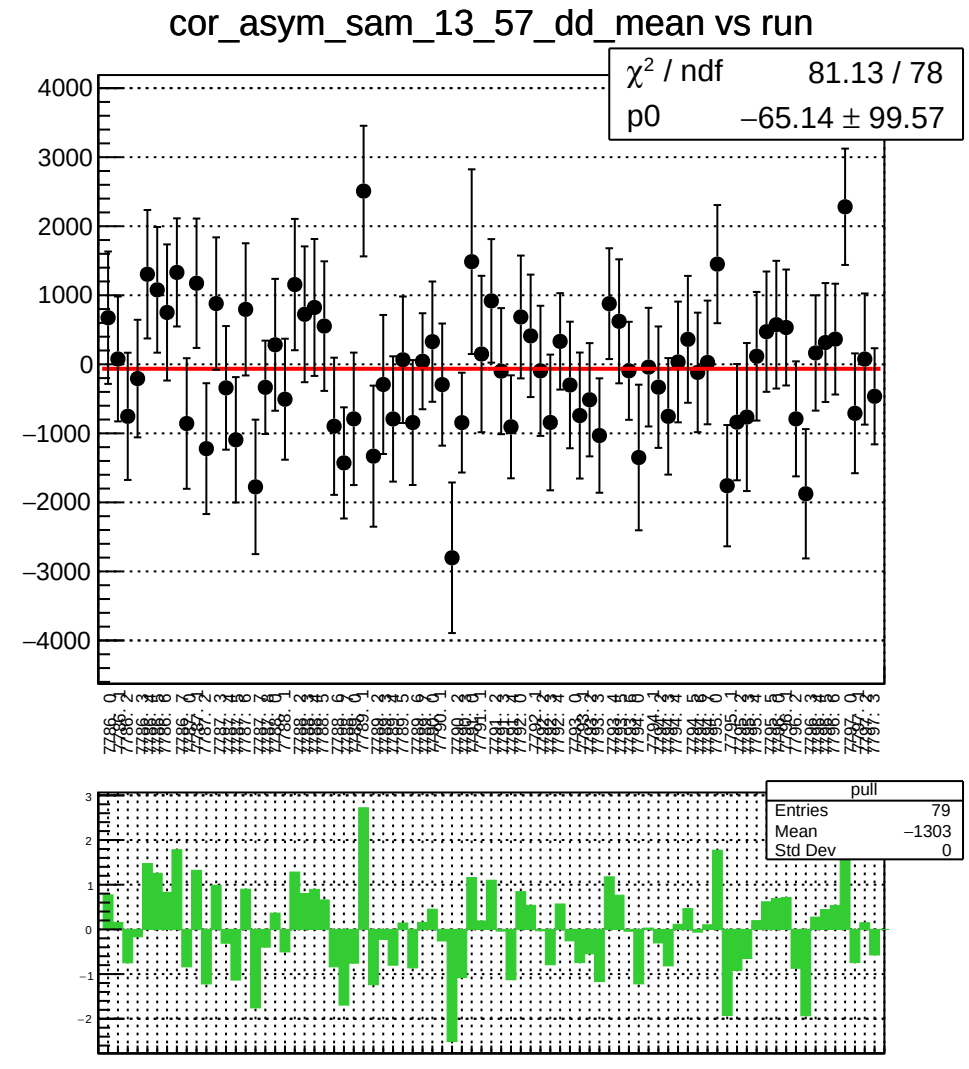

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 81.14 / 78
p0 −65.15 ± 99.57
pull
Entries 79
Mean −1300
Std Dev 0

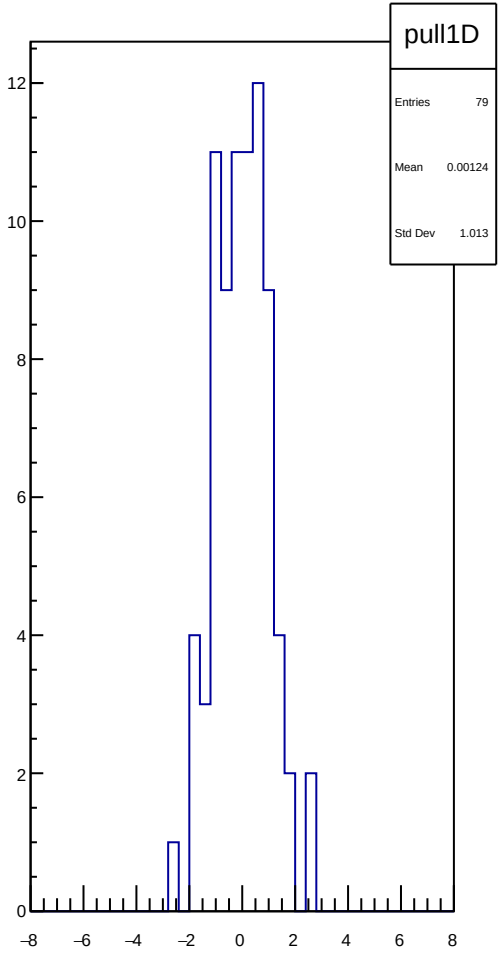

pull1D
Entries 79
Mean 0.001243
Std Dev 1.013

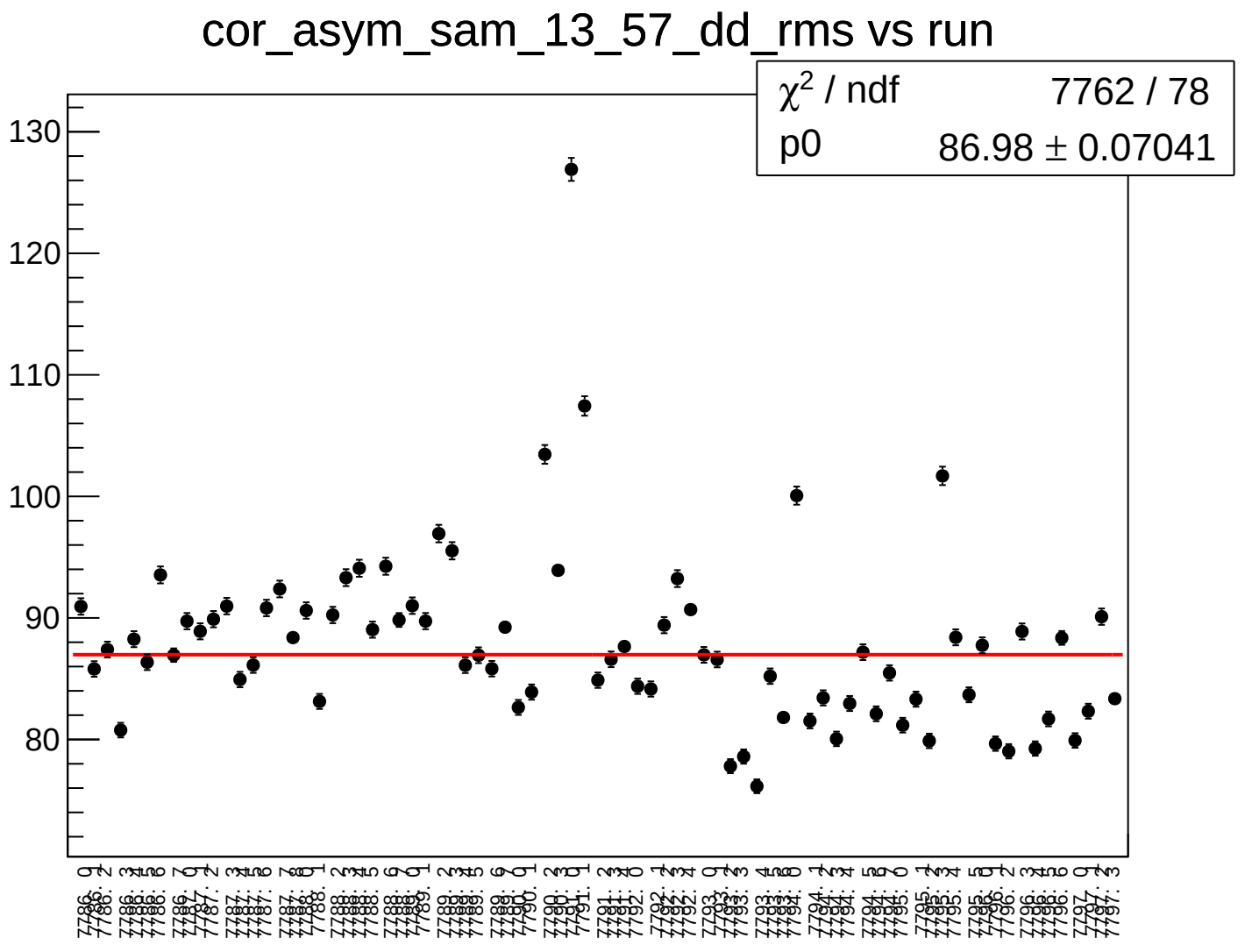

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 7762 / 78
p0 86.98 ± 0.07041
130
120
110
100
90
80

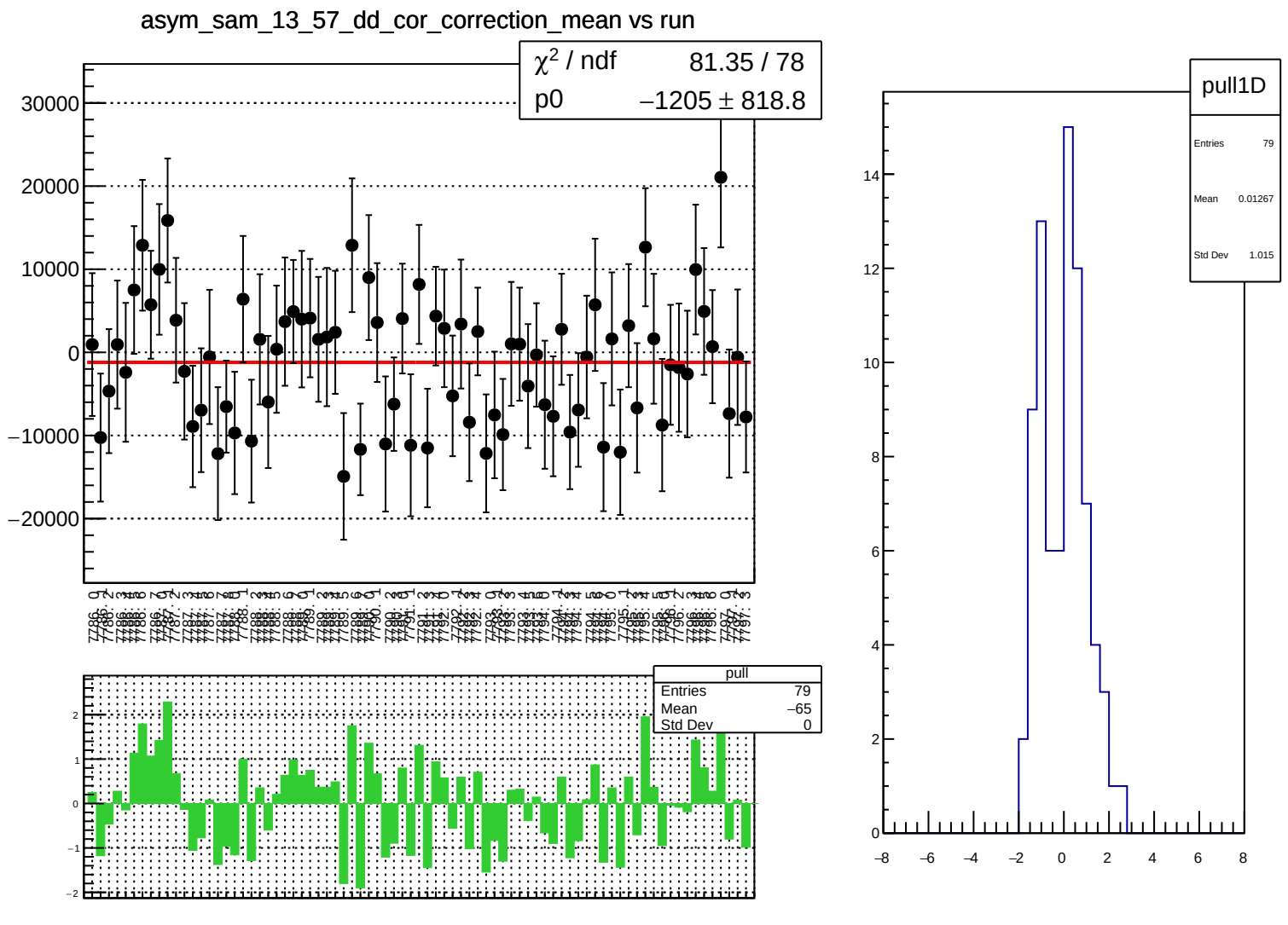

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 81.35 / 78
p0 −1205 ± 818.8
30000
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −65.01
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 79
Mean 0.01267
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

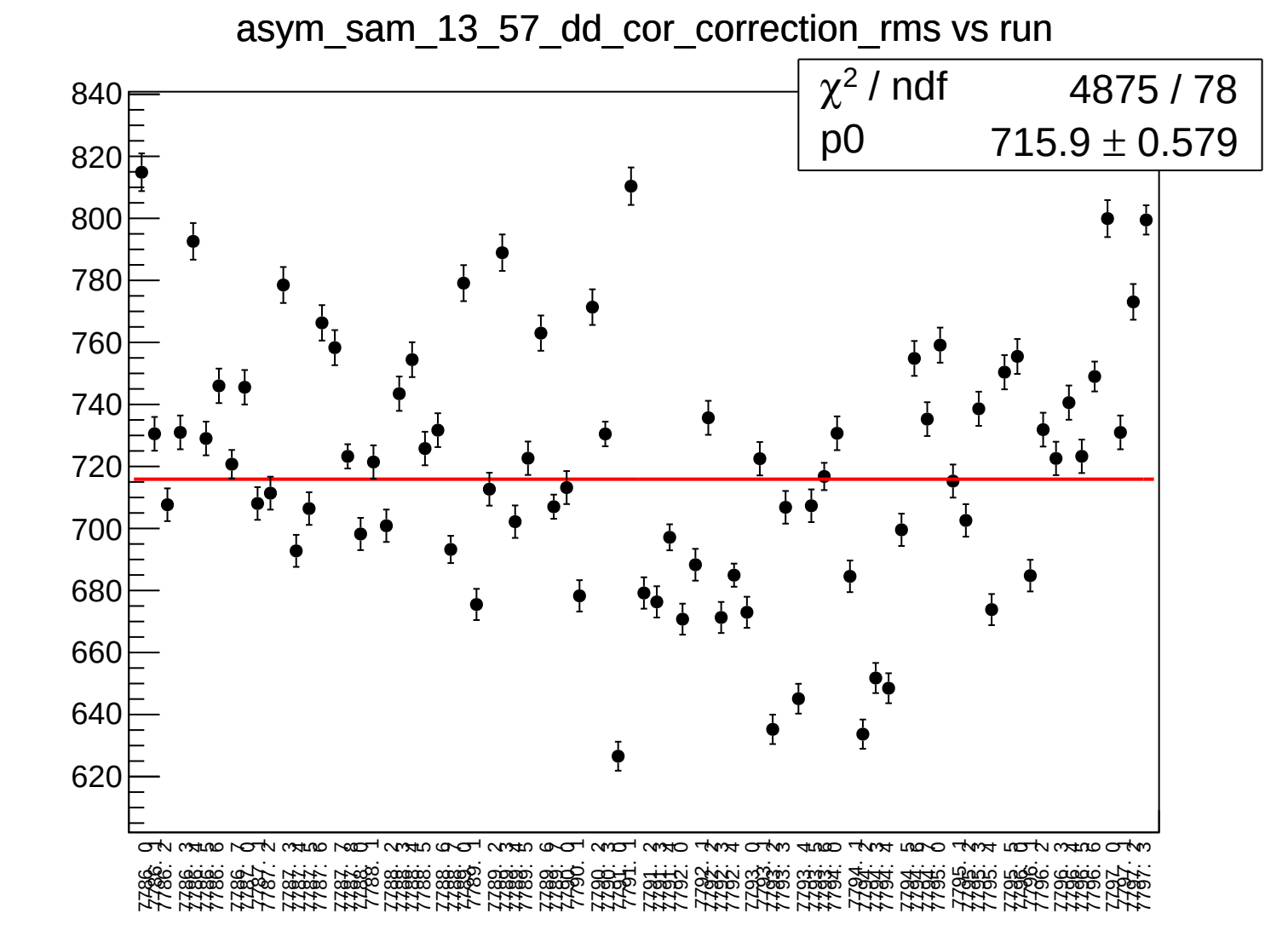

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 4875 / 78
p0 715.9 ± 0.579
840
820
800
780
760
740
720
700
680
660
640
620

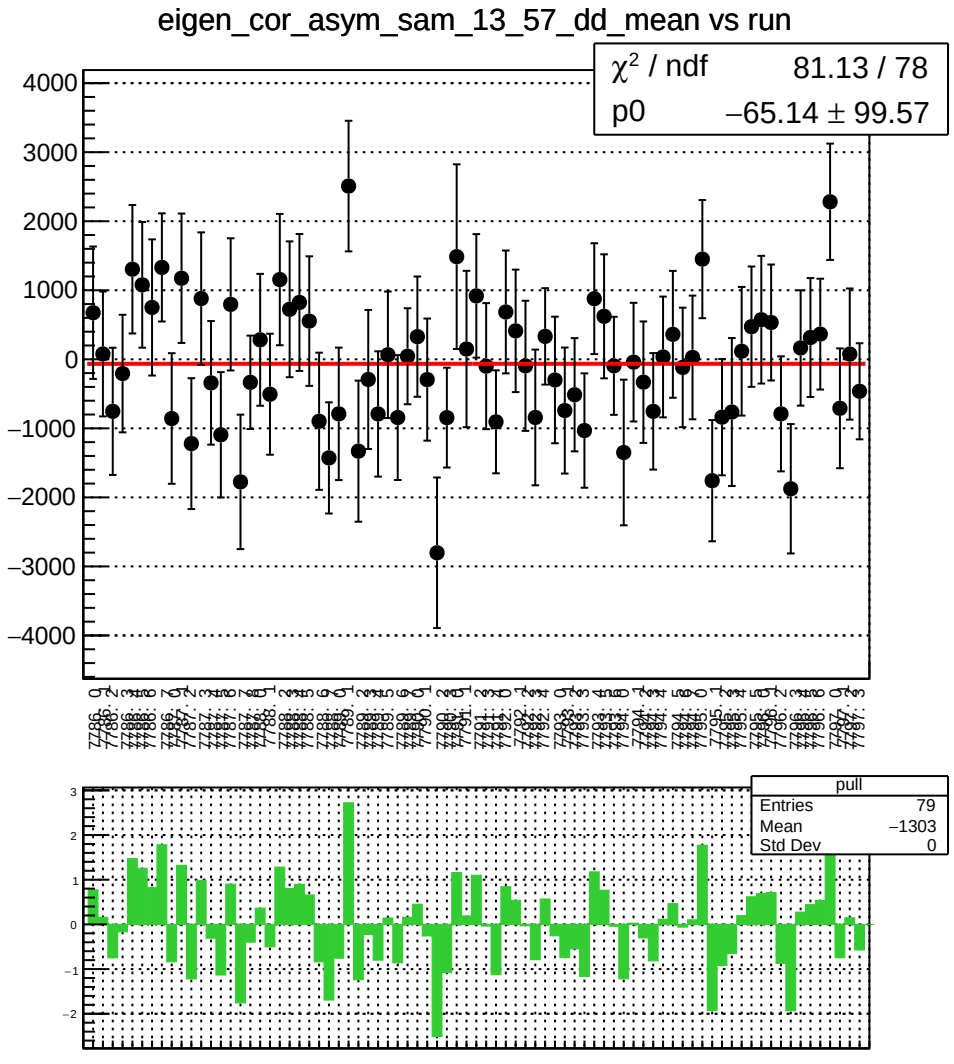

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 81.13 / 78
p0 −65.14 ± 99.57
pull
Entries 79
Mean −1303
Std Dev 0

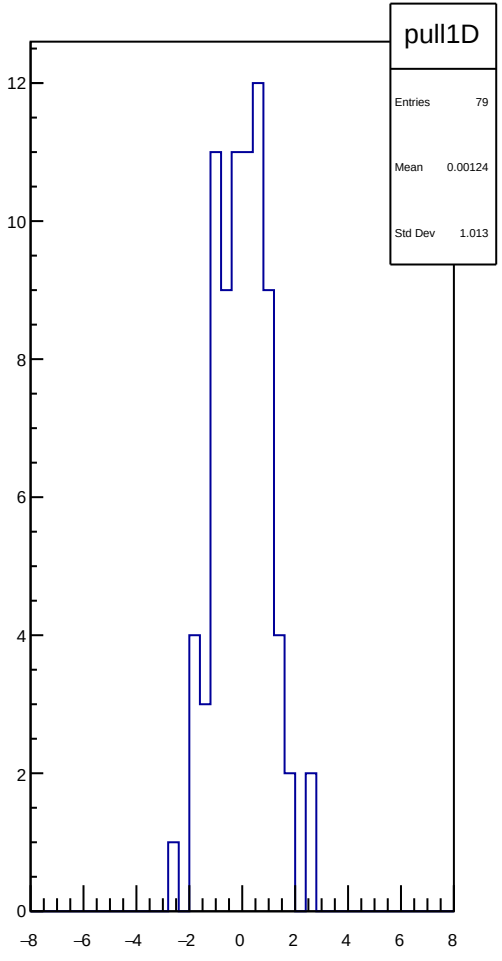

pull1D
Entries 79
Mean 0.00124
Std Dev 1.013

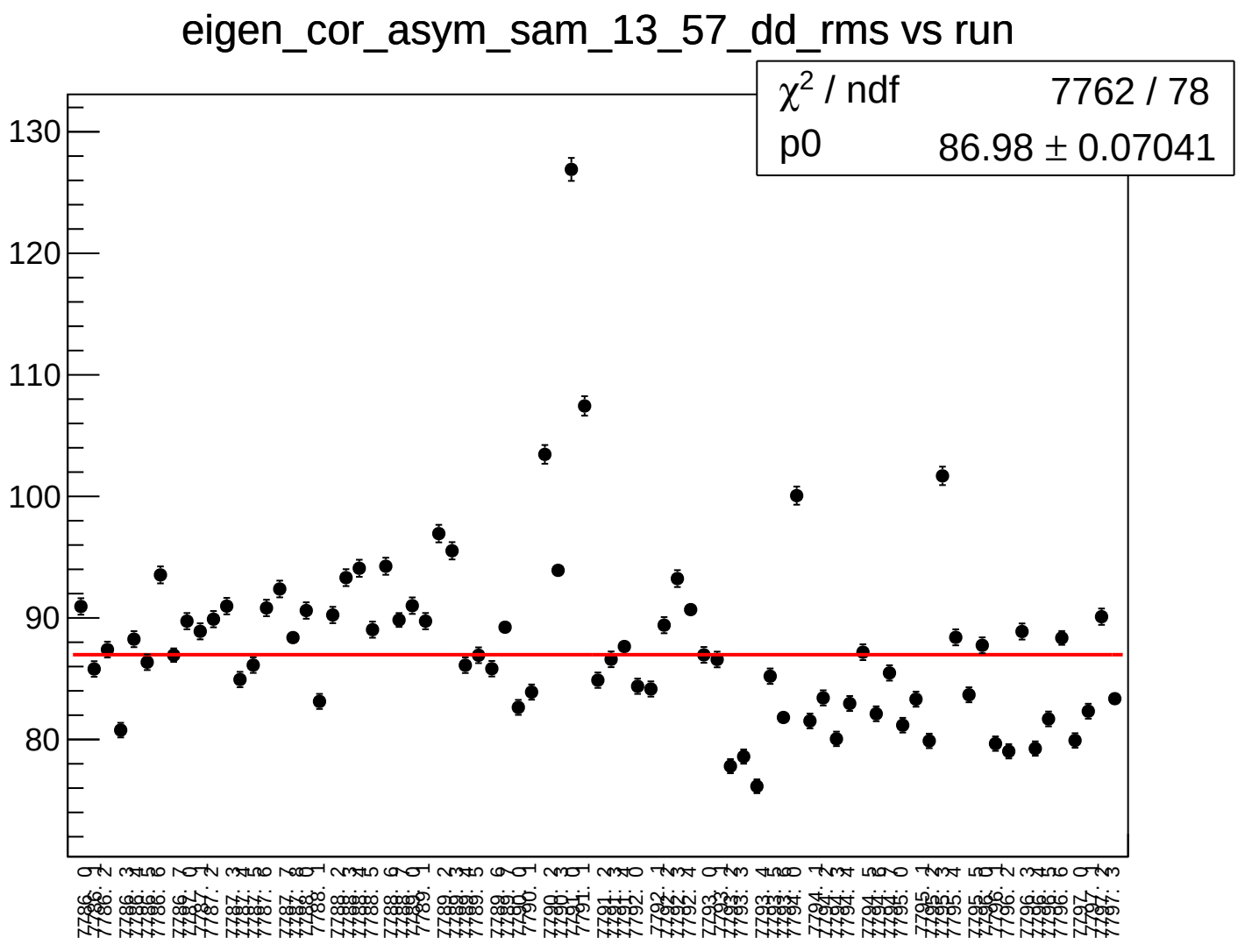

cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 7762 / 78
p0 86.98 ± 0.07041
130
120
110
100
90
80

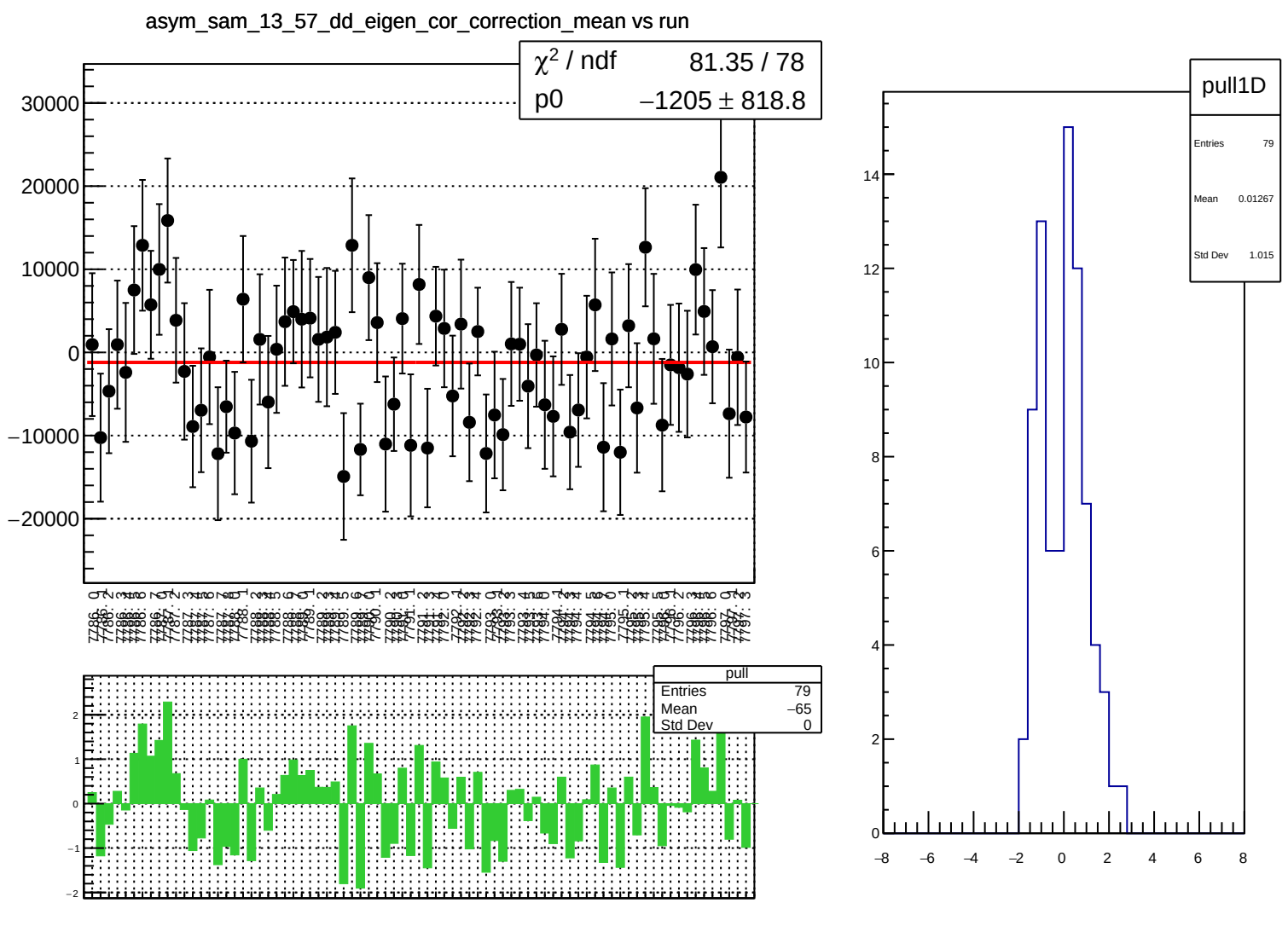

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 81.35 / 78
p0 −1205 ± 818.8
30000
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −65
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 79
Mean 0.01267
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

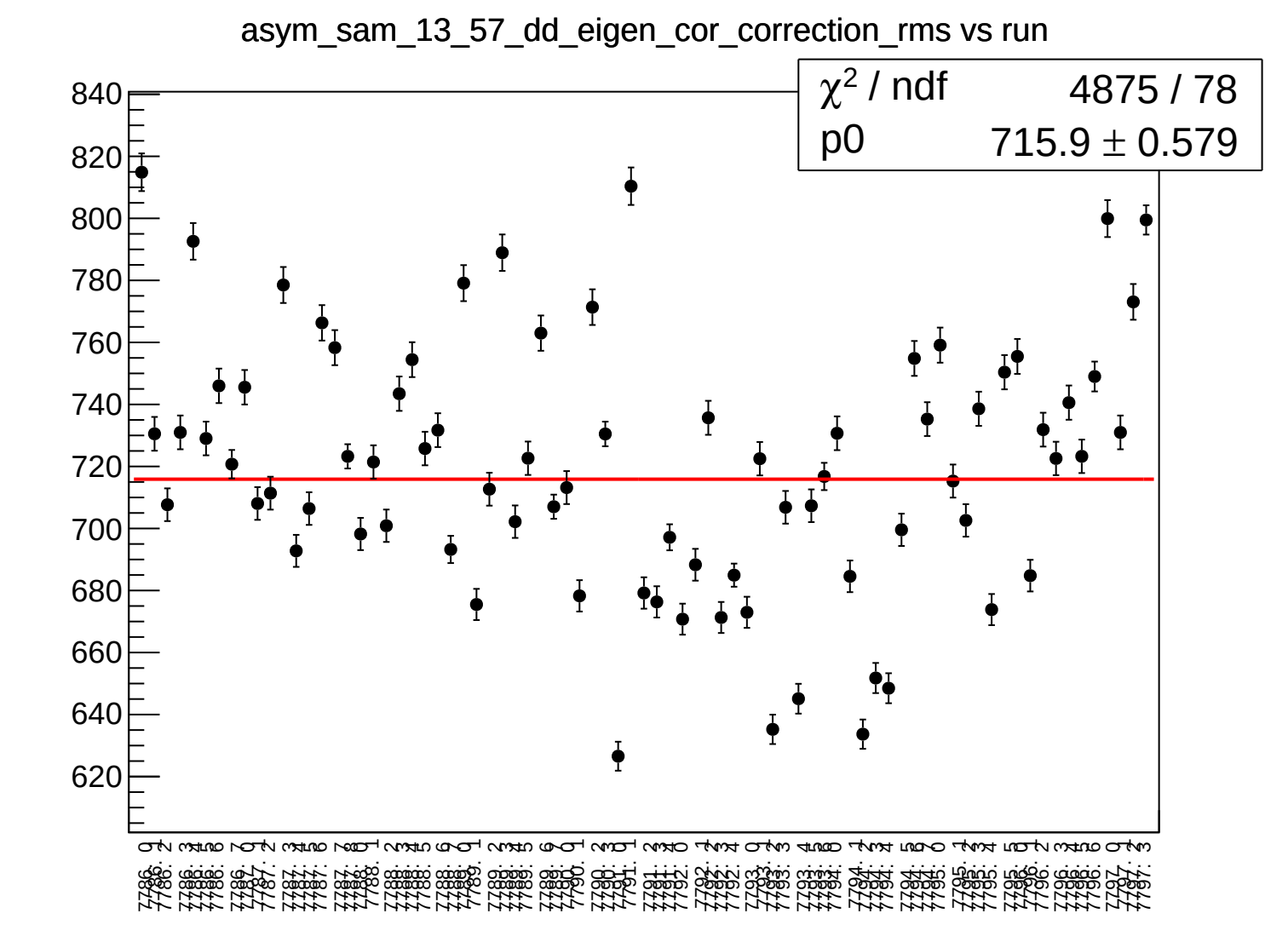

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 4875 / 78
p0 715.9 ± 0.579
840
820
800
780
760
740
720
700
680
660
640
620

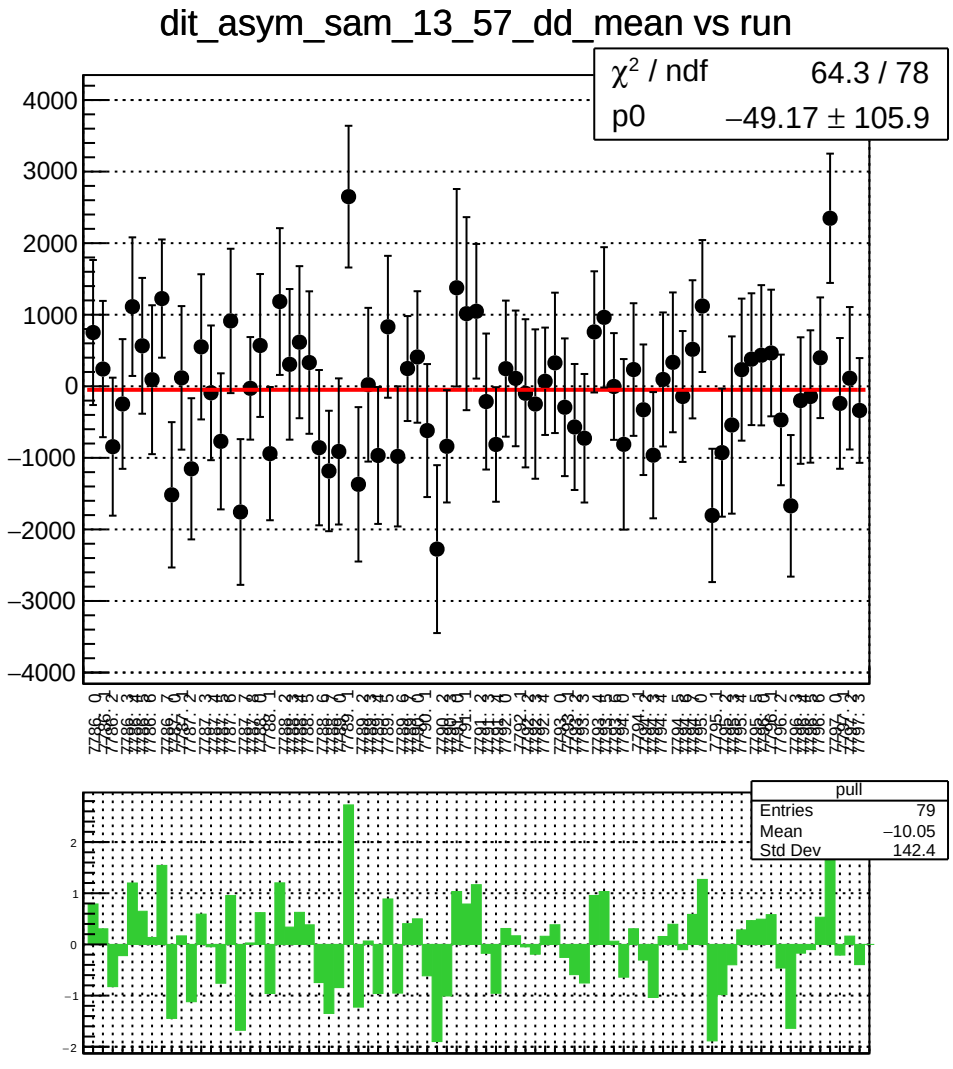

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 81.13 / 78
p0 −65.14 ± 99.57
pull
Entries 79
Mean −1303
Std Dev 0

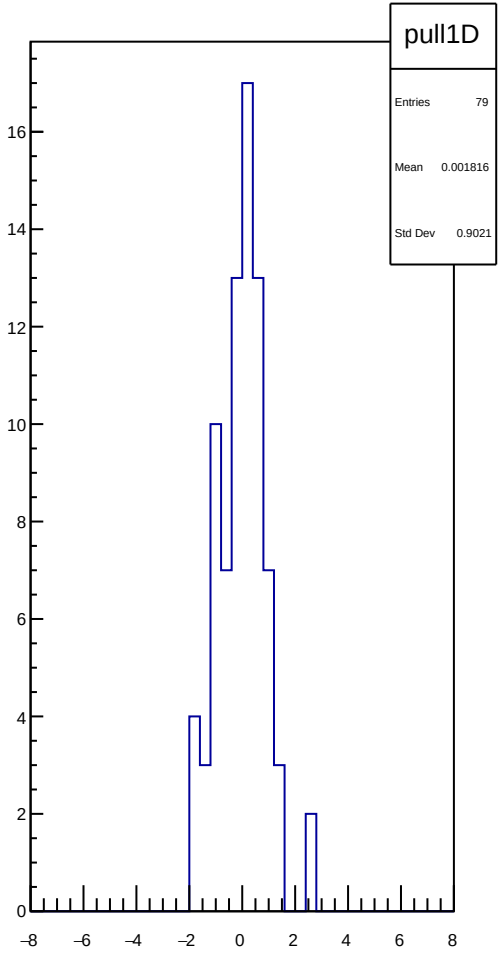

pull1D
Entries 79
Mean 0.00124
Std Dev 1.013

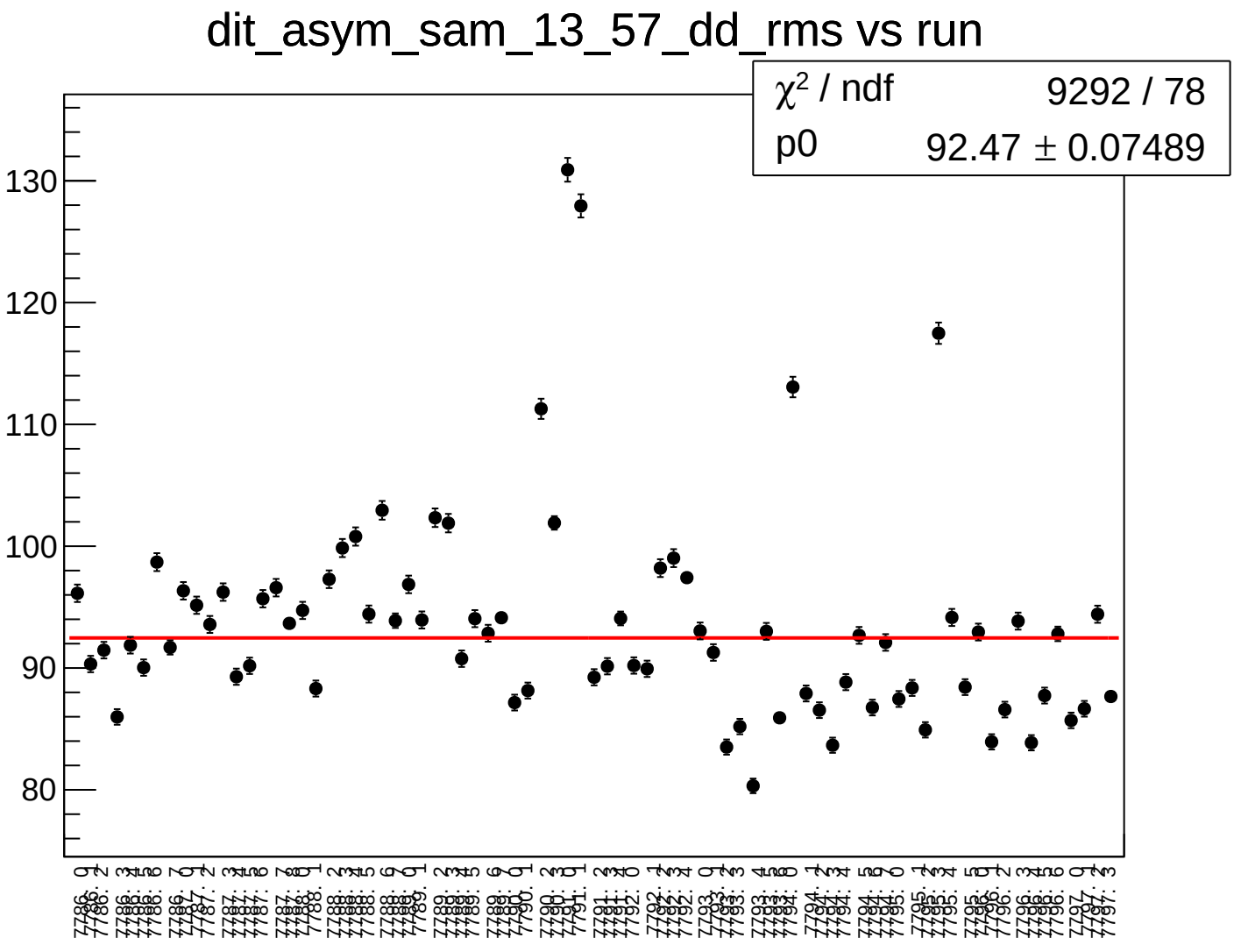

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 7762 / 78
p0 86.98 ± 0.07041
130
120
110
100
90
80

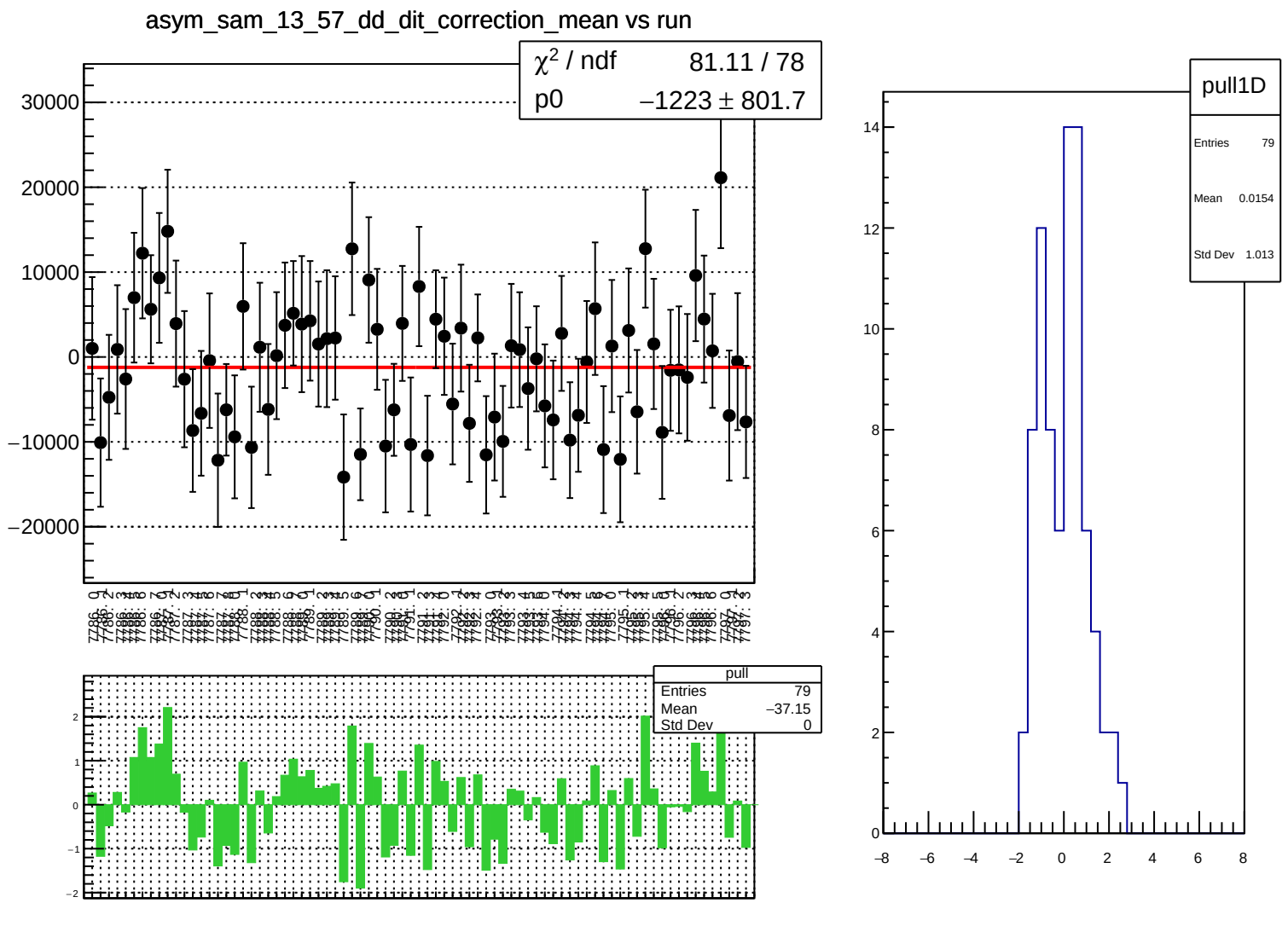

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.35 / 78
p0 −1205 ± 818.8
30000
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −65
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 79
Mean 0.01267
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

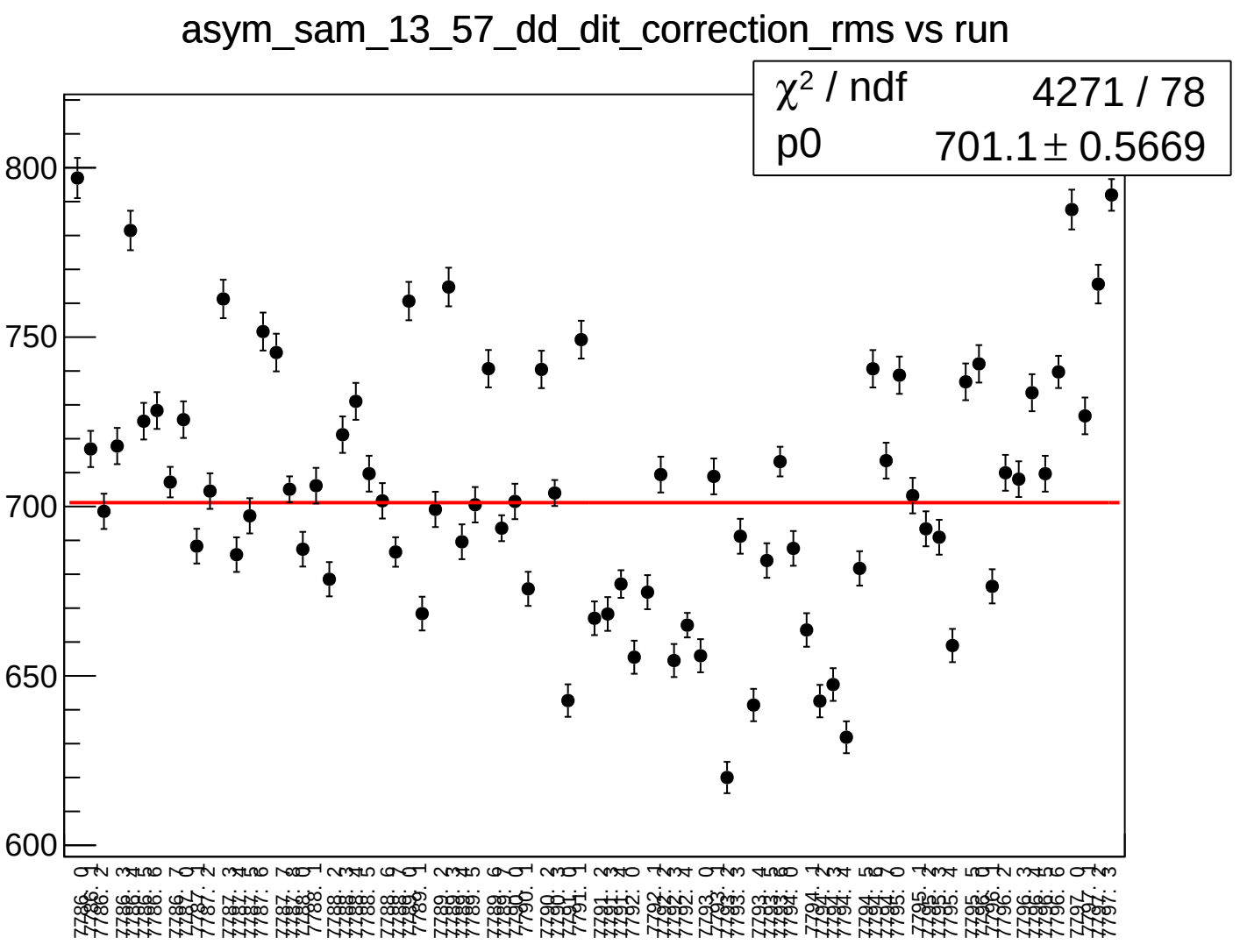

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 4875 / 78
p0 715.9 ± 0.579
840
820
800
780
760
740
720
700
680
660
640
620

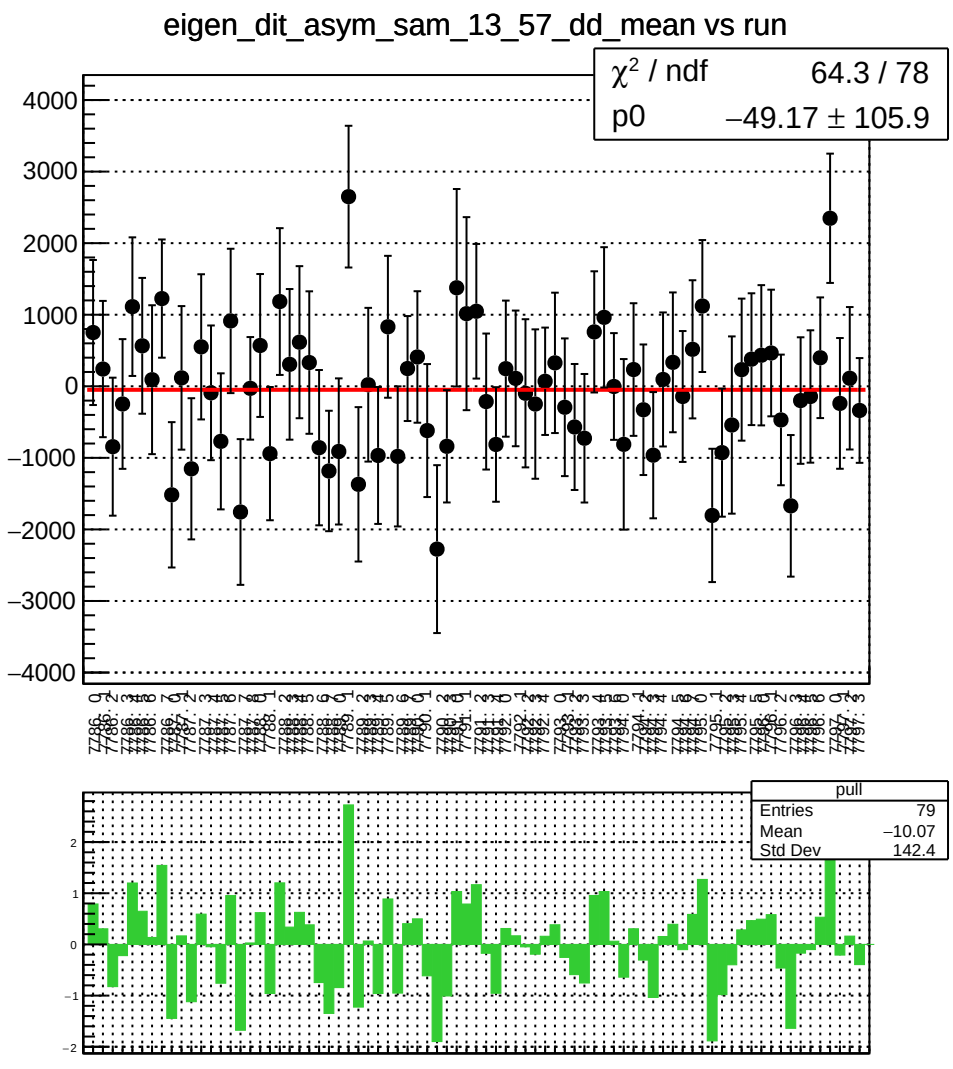

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 64.3 / 78
p0 −49.17 ± 105.9
pull
Entries 79
Mean −10.05
Std Dev 142.4

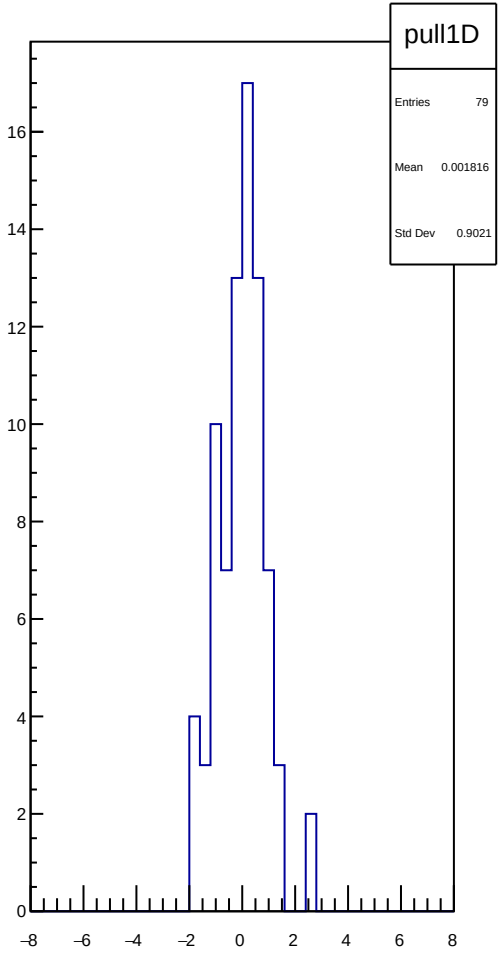

pull1D
Entries 79
Mean 0.001816
Std Dev 0.9021

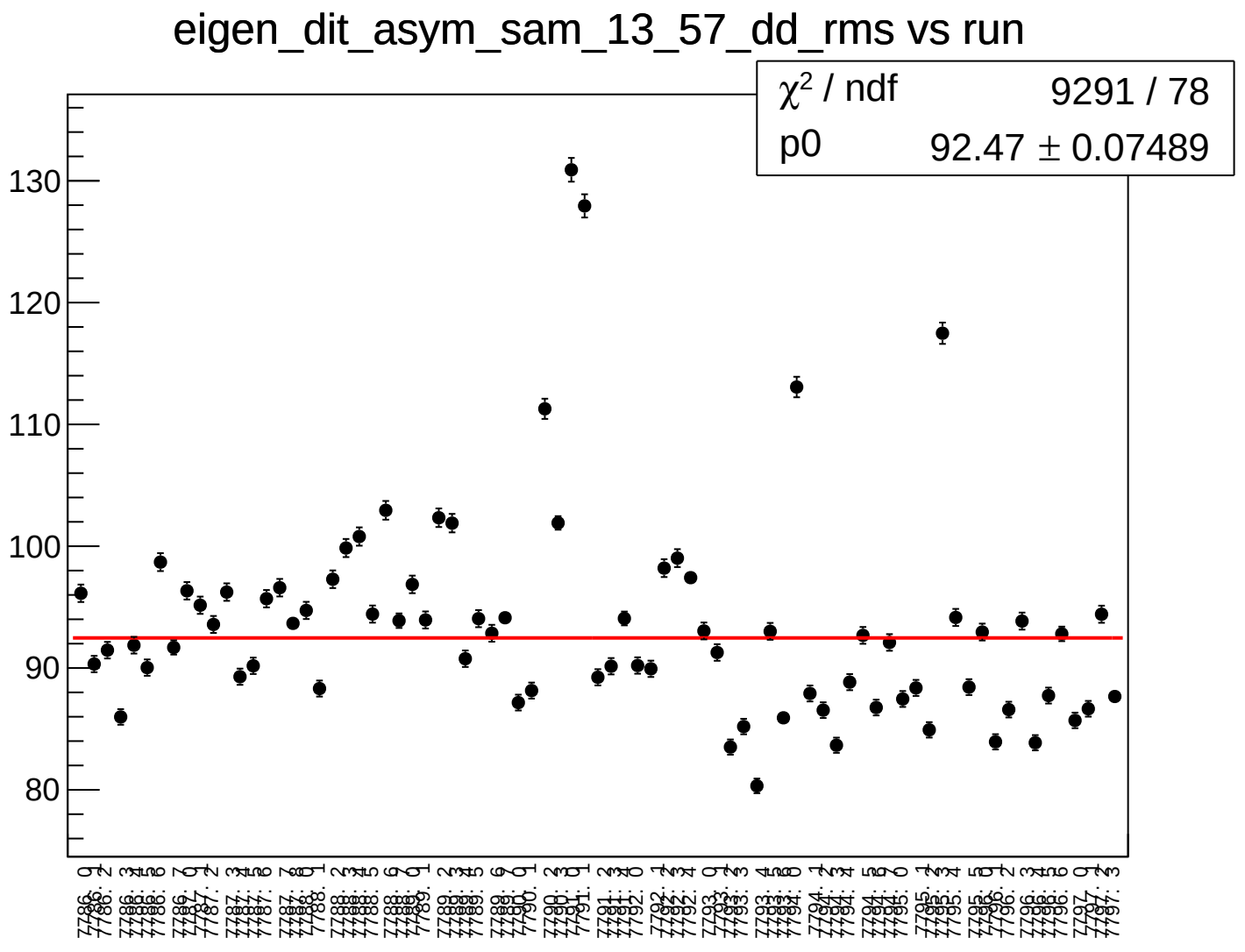

dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 9292 / 78
p0 92.47 ± 0.07489
130
120
110
100
90
80

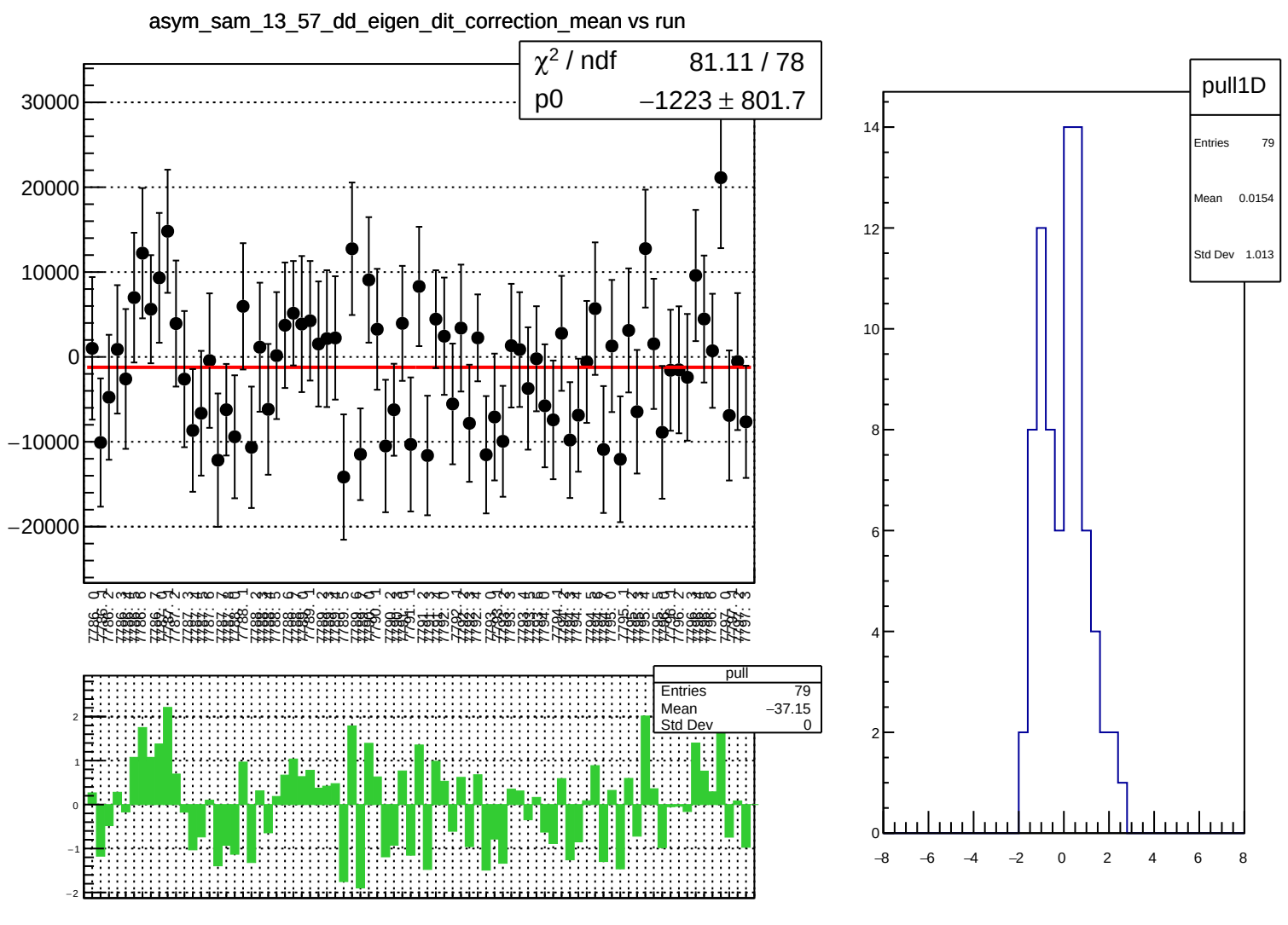

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 81.11 / 78
p0 −1223 ± 801.7
30000
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −37.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 79
Mean 0.0154
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

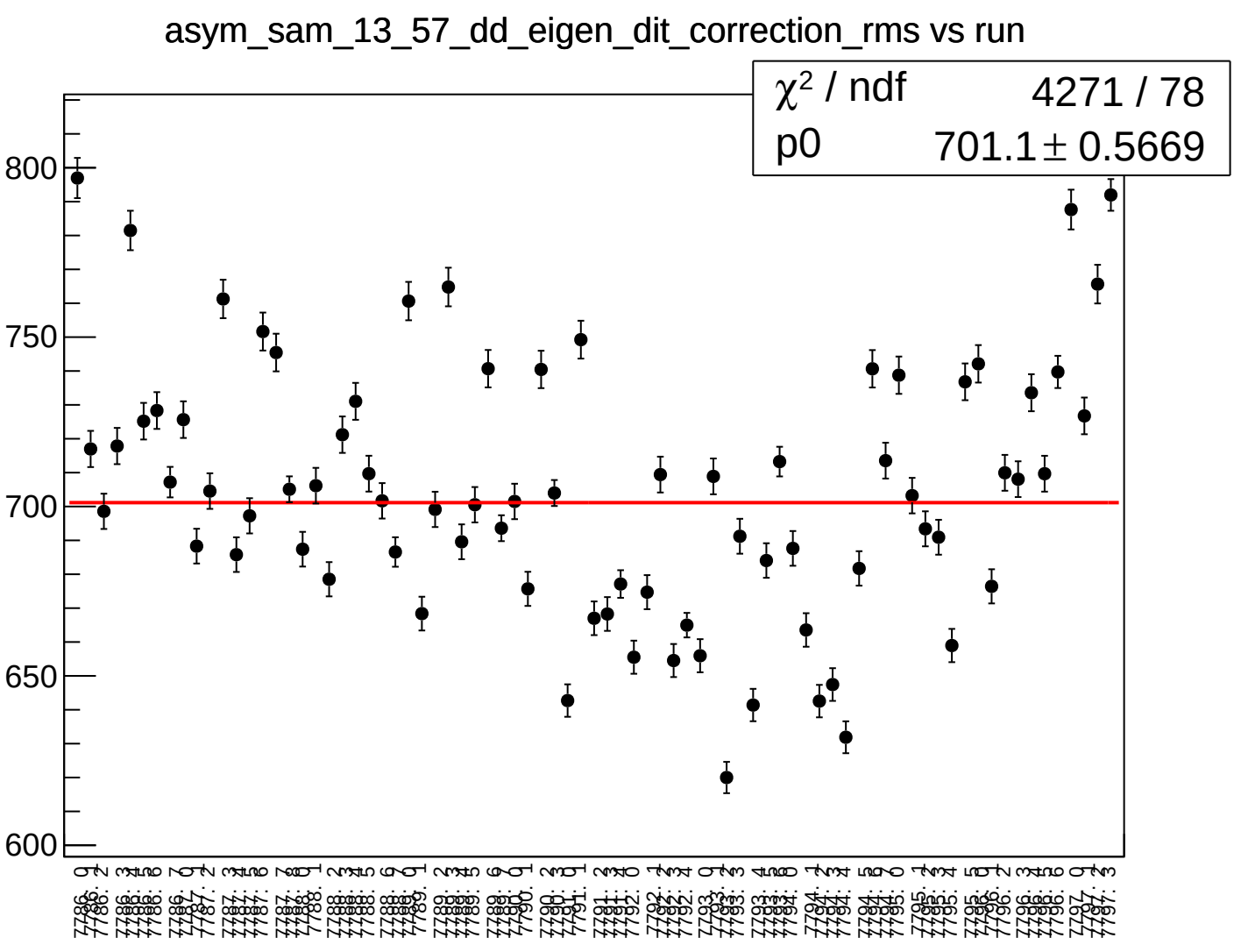

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 4271 / 78
p0 701.1 ± 0.5669
800
750
700
650
600

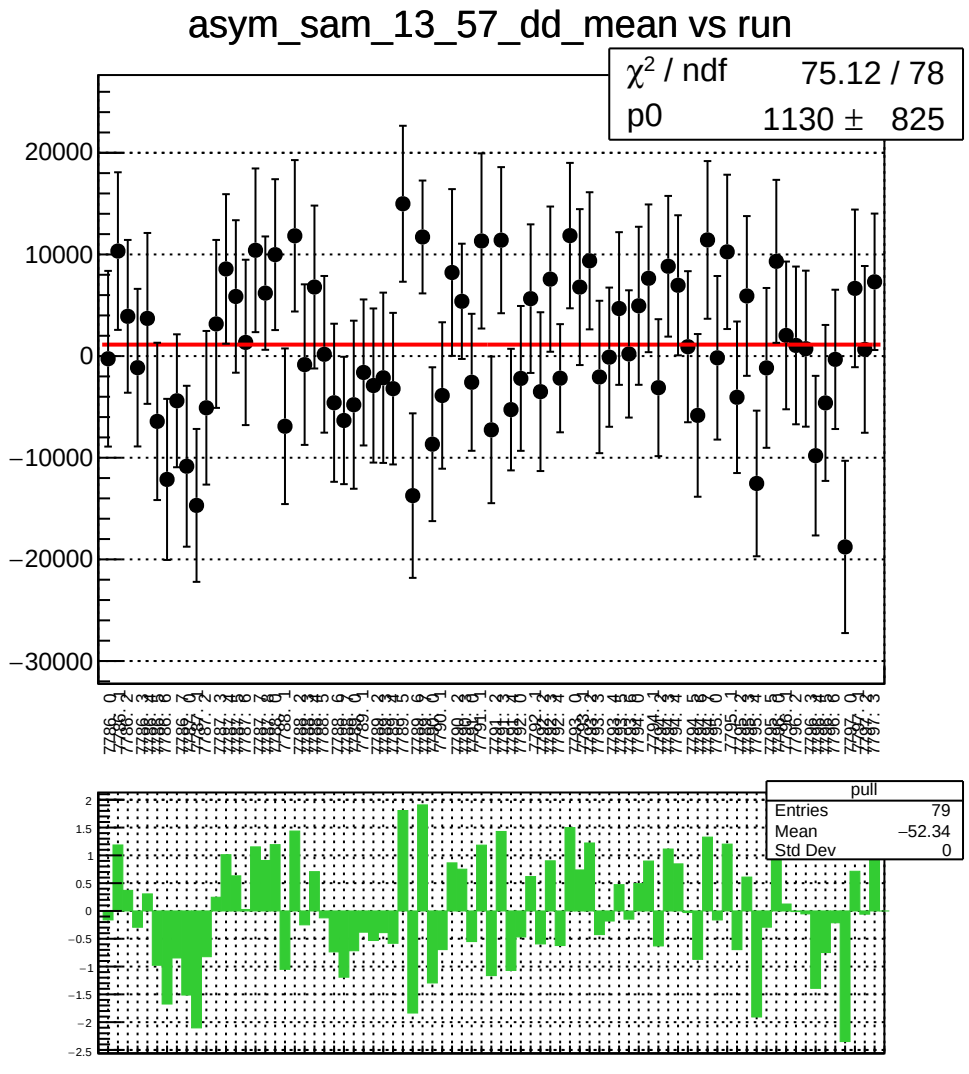

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 64.3 / 78
p0 −49.17 ± 105.9
pull
Entries 79
Mean −10.07
Std Dev 142.4

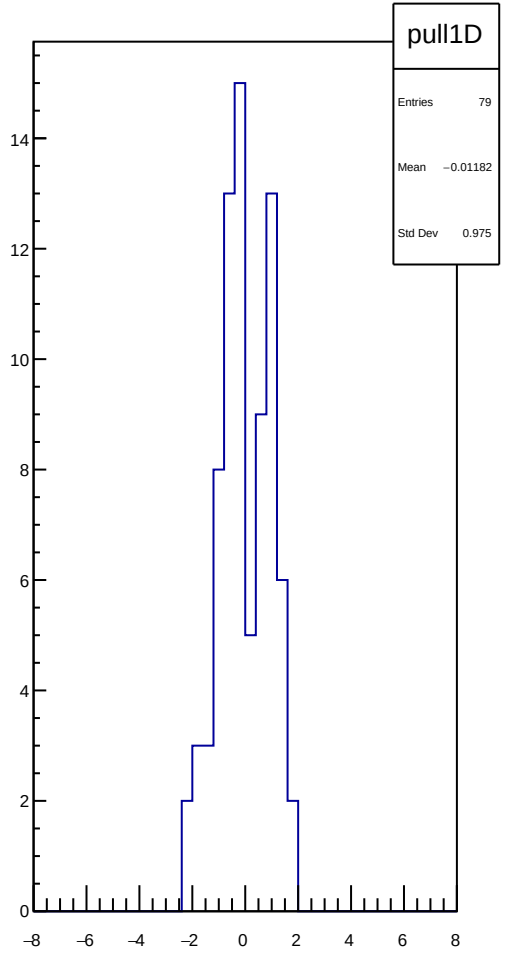

pull1D
Entries 79
Mean 0.001816
Std Dev 0.9021

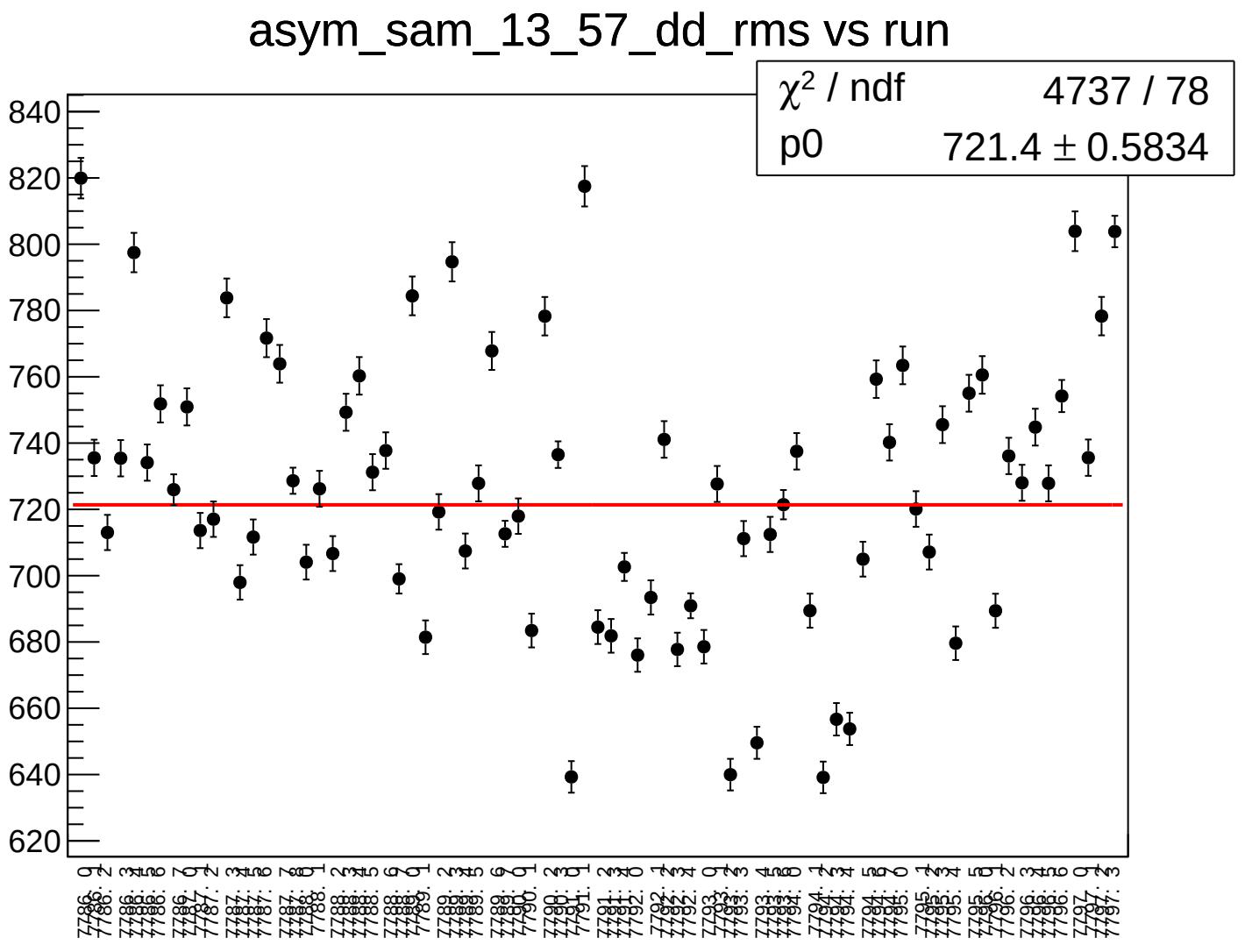

eigen_dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 9291 / 78
p0 92.47 ± 0.07489
130
120
110
100
90
80

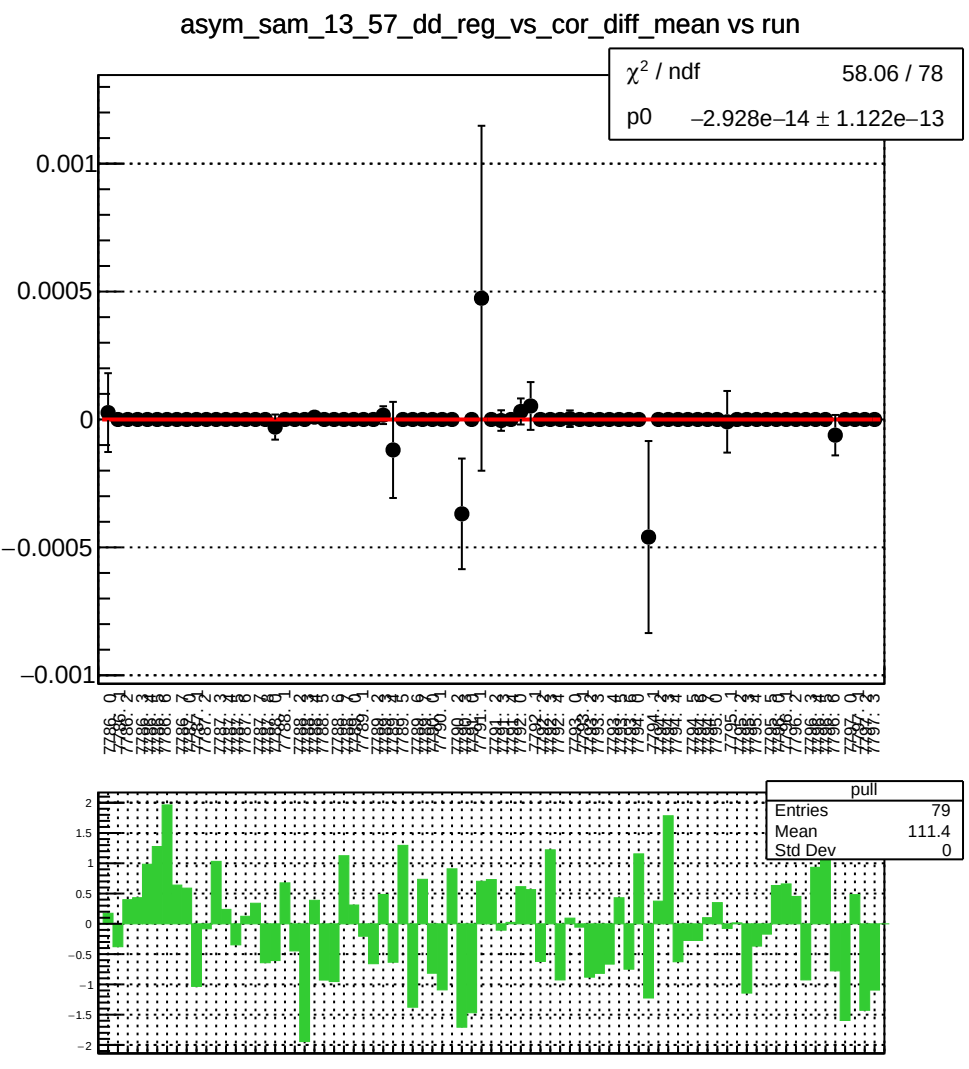

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.11 / 78
p0 −1223 ± 801.7
30000
20000
10000
0
−10000
−20000
pull
Entries 79
Mean −37.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 79
Mean 0.0154
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

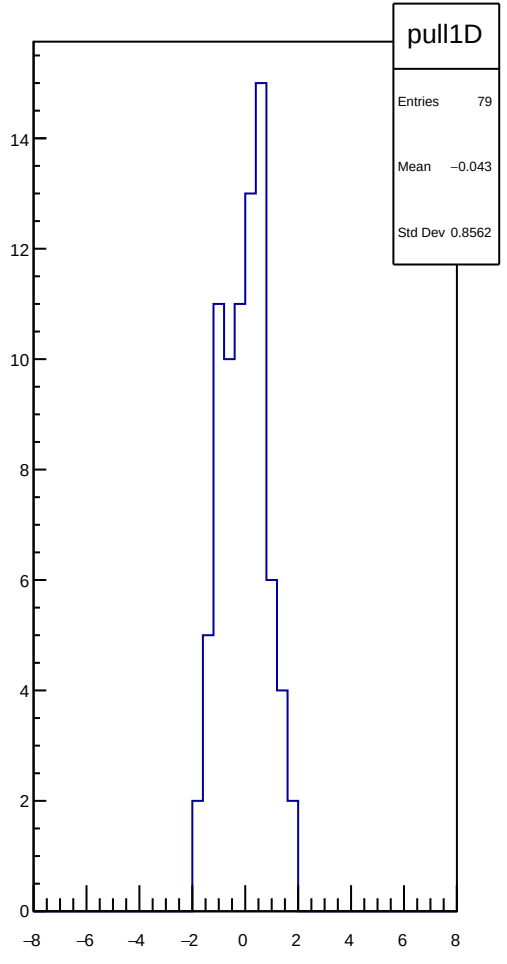

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 4271 / 78
p0 701.1 ± 0.5669
800
750
700
650
600

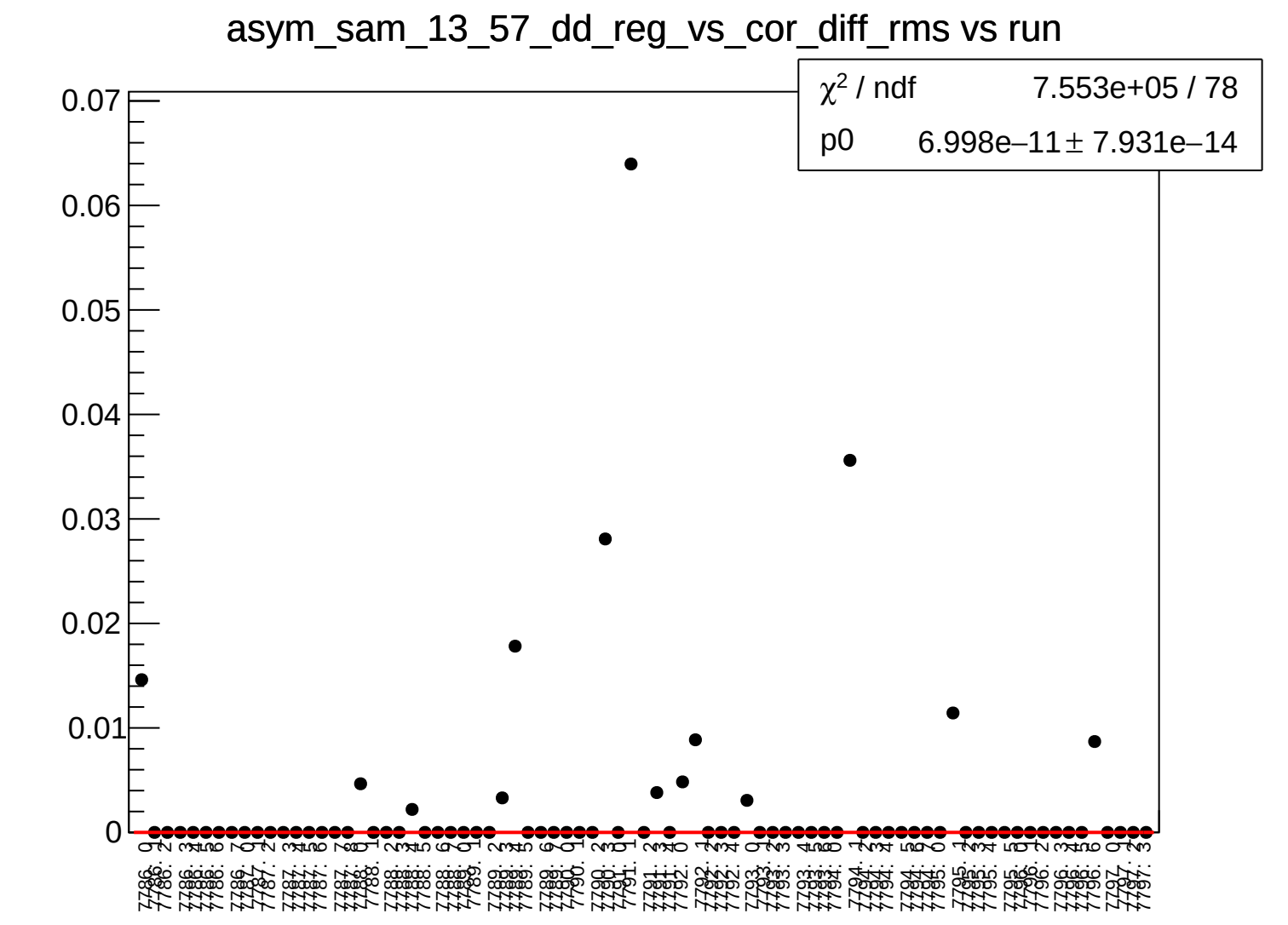

asym_sam_13_57_dd_mean vs run
χ² / ndf 75.12 / 78
p0 1130 ± 825
pull
Entries 79
Mean −52.34
Std Dev 0

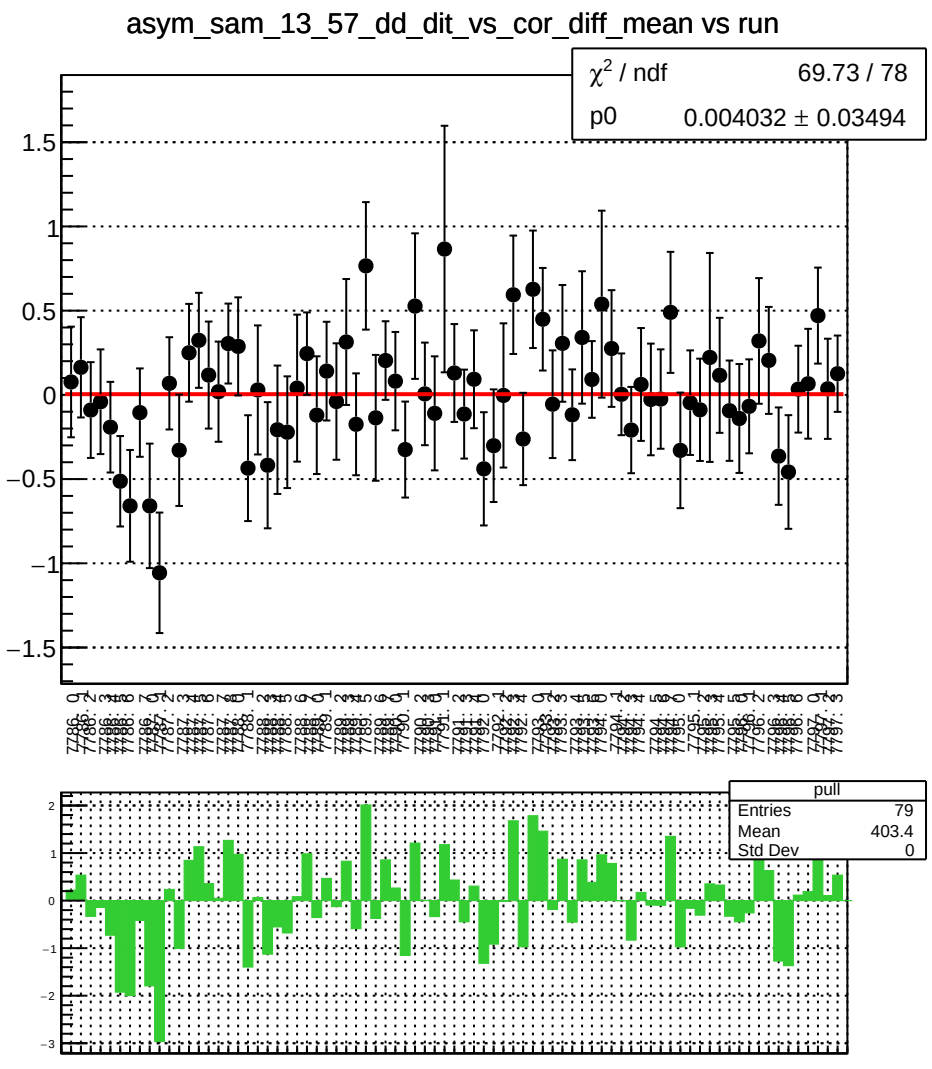

pull1D
Entries 79
Mean −0.01182
Std Dev 0.975

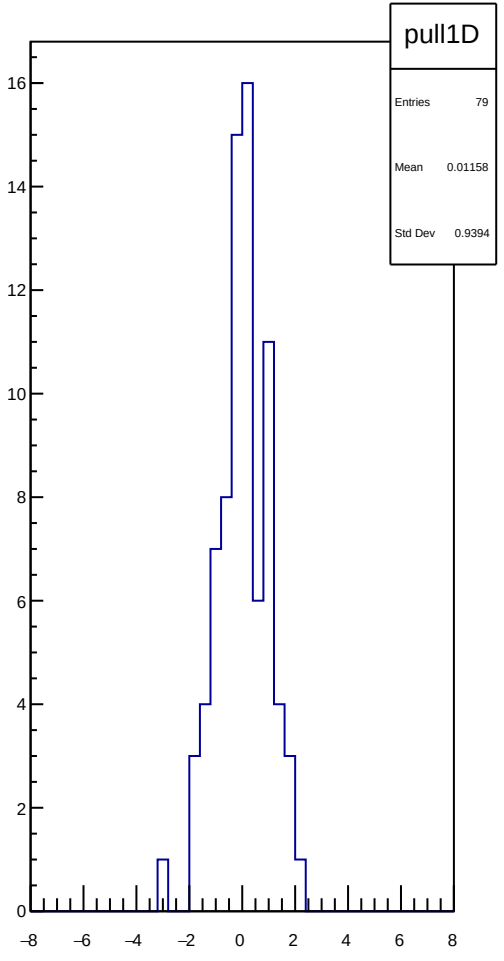

asym_sam_13_57_dd_rms vs run
χ² / ndf 4737 / 78
p0 721.4 ± 0.5834
840
820
800
780
760
740
720
700
680
660
640
620

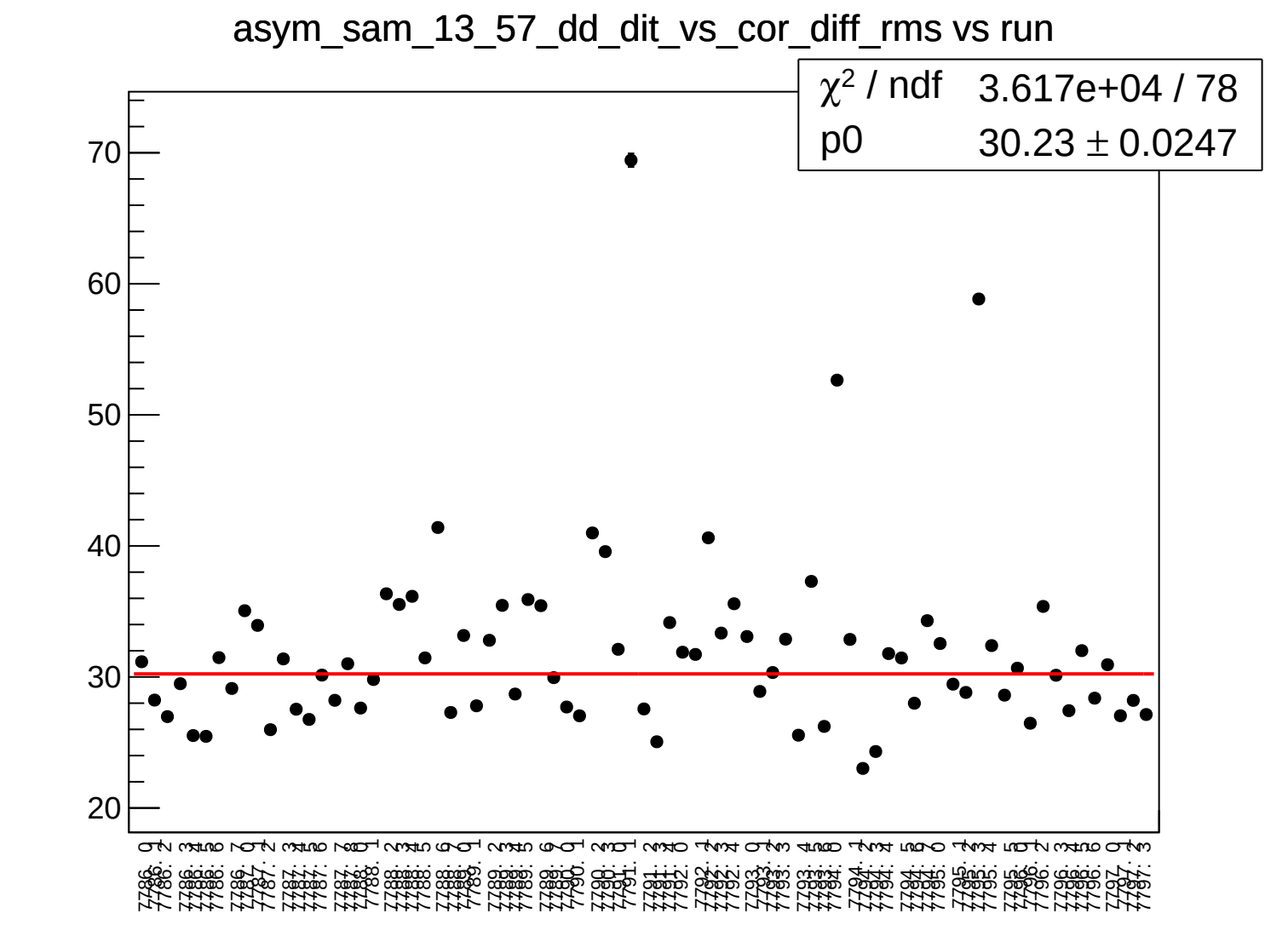

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 58.06 / 78
p0 −2.928e−14 ± 1.122e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 79
Mean 111.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

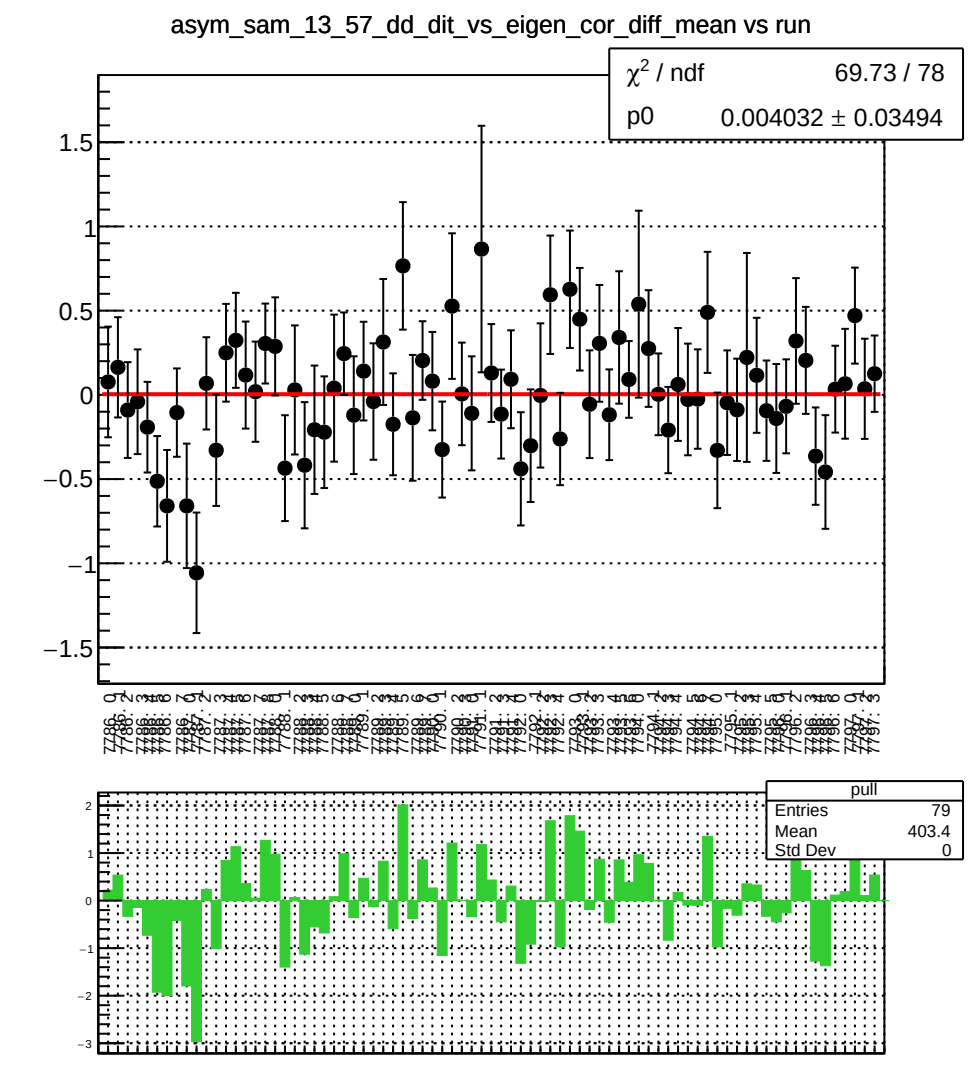

pull1D
Entries 79
Mean −0.043
Std Dev 0.8562
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

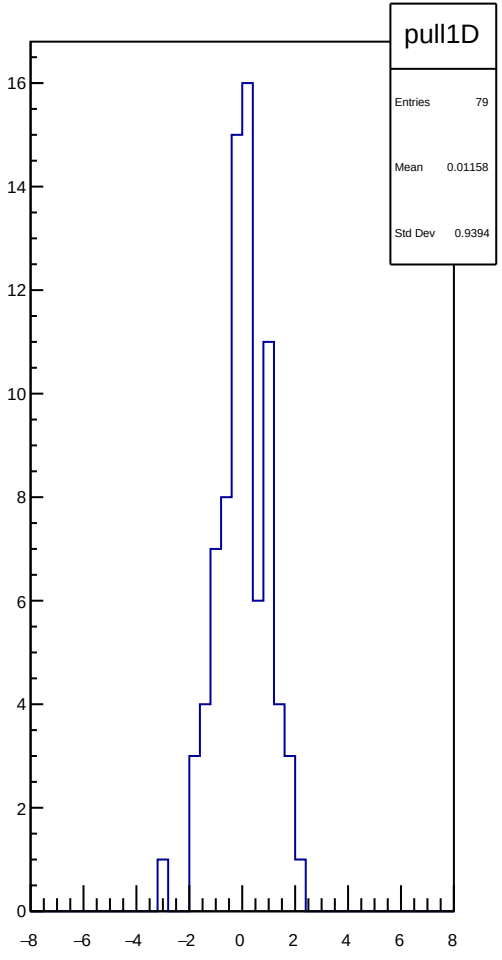

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.553e+05 / 78
p0 6.998e−11 ± 7.931e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

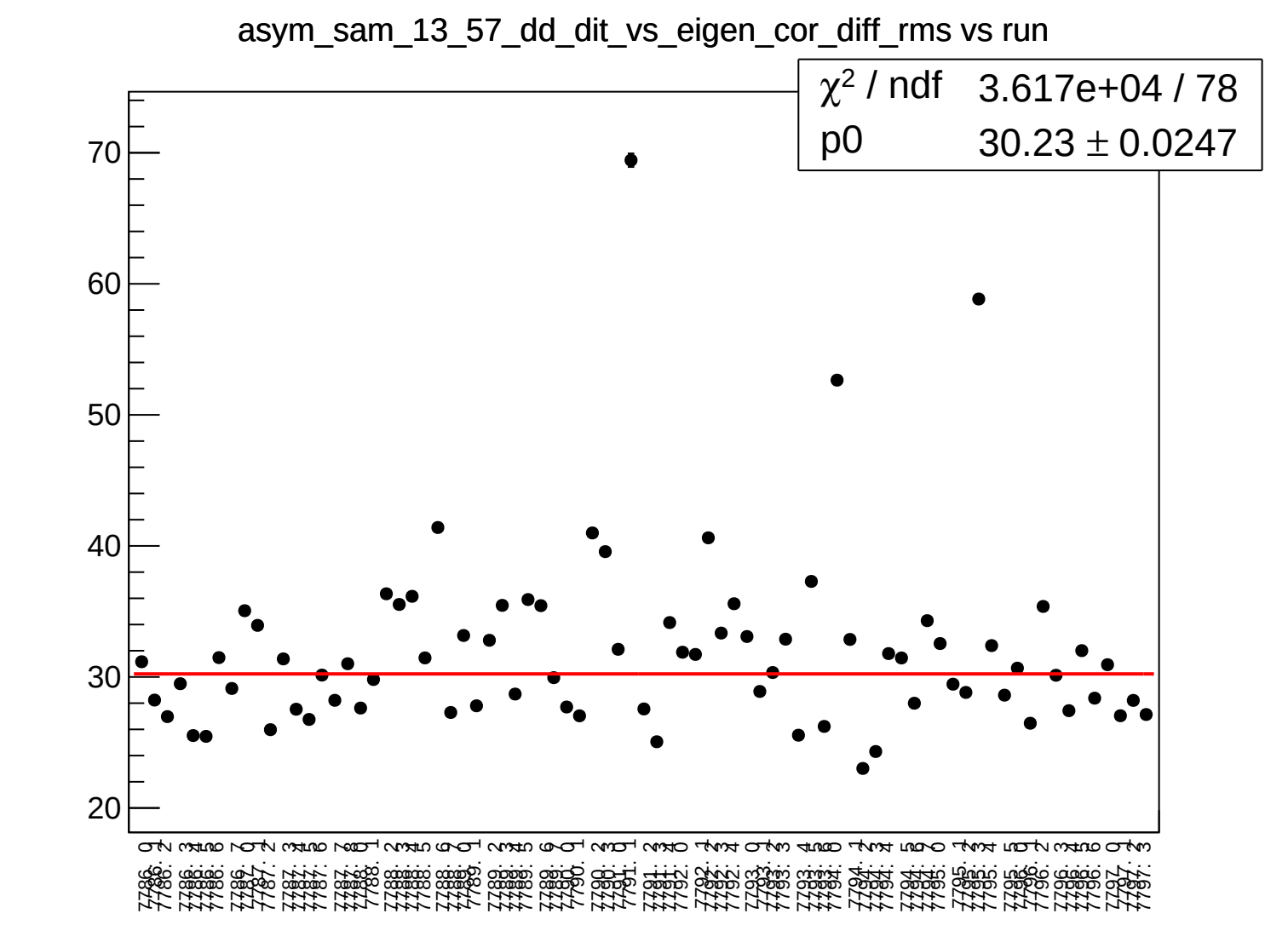

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.73 / 78
p0 0.004032 ± 0.03494
pull
Entries 79
Mean 403.4
Std Dev 0

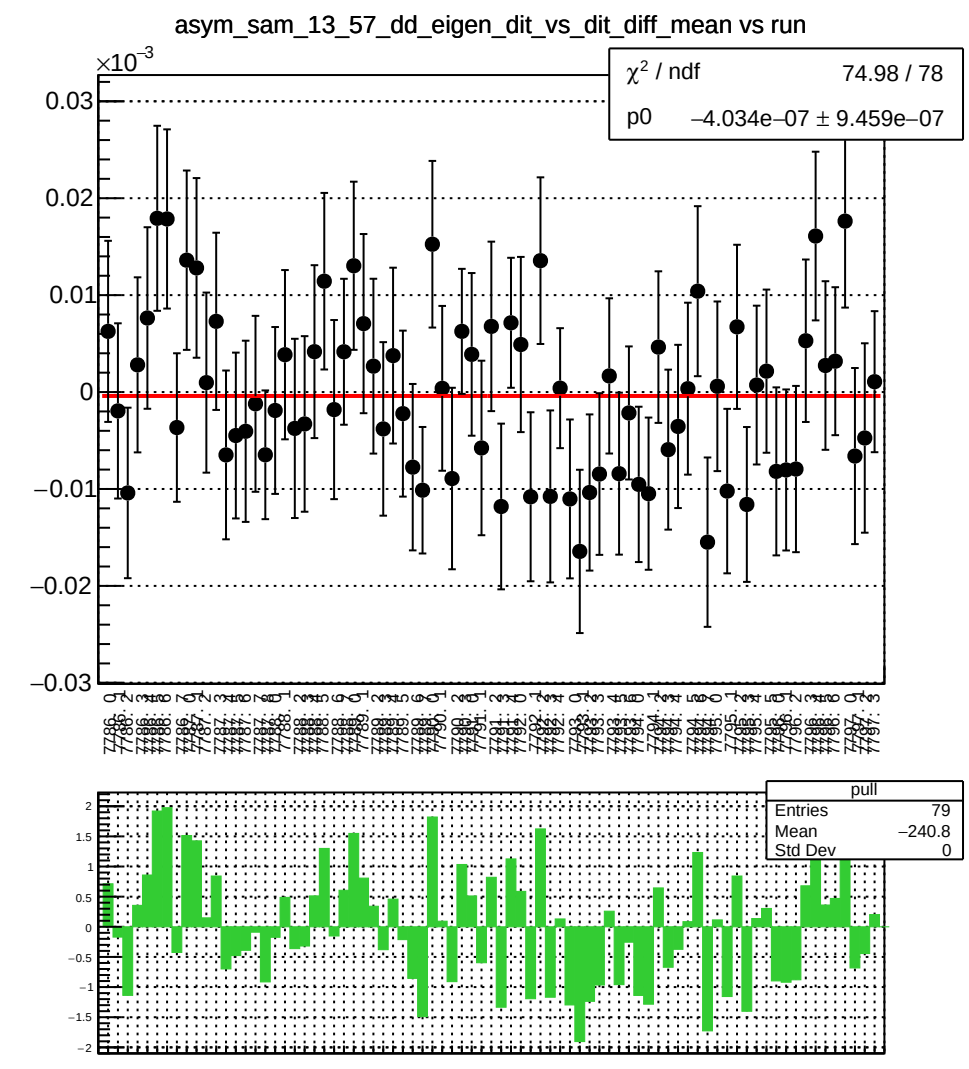

pull1D
Entries 79
Mean 0.01158
Std Dev 0.9394

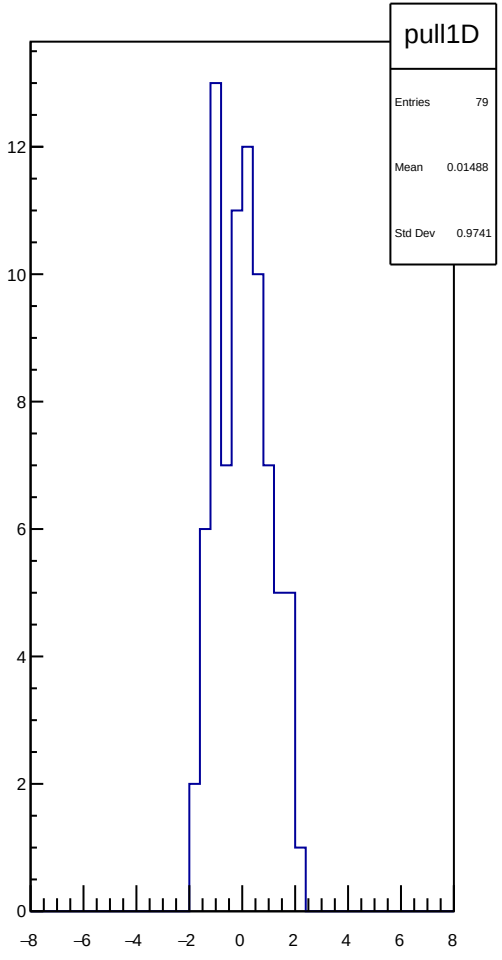

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.617e+04 / 78
p0 30.23 ± 0.0247
70
60
50
40
30
20

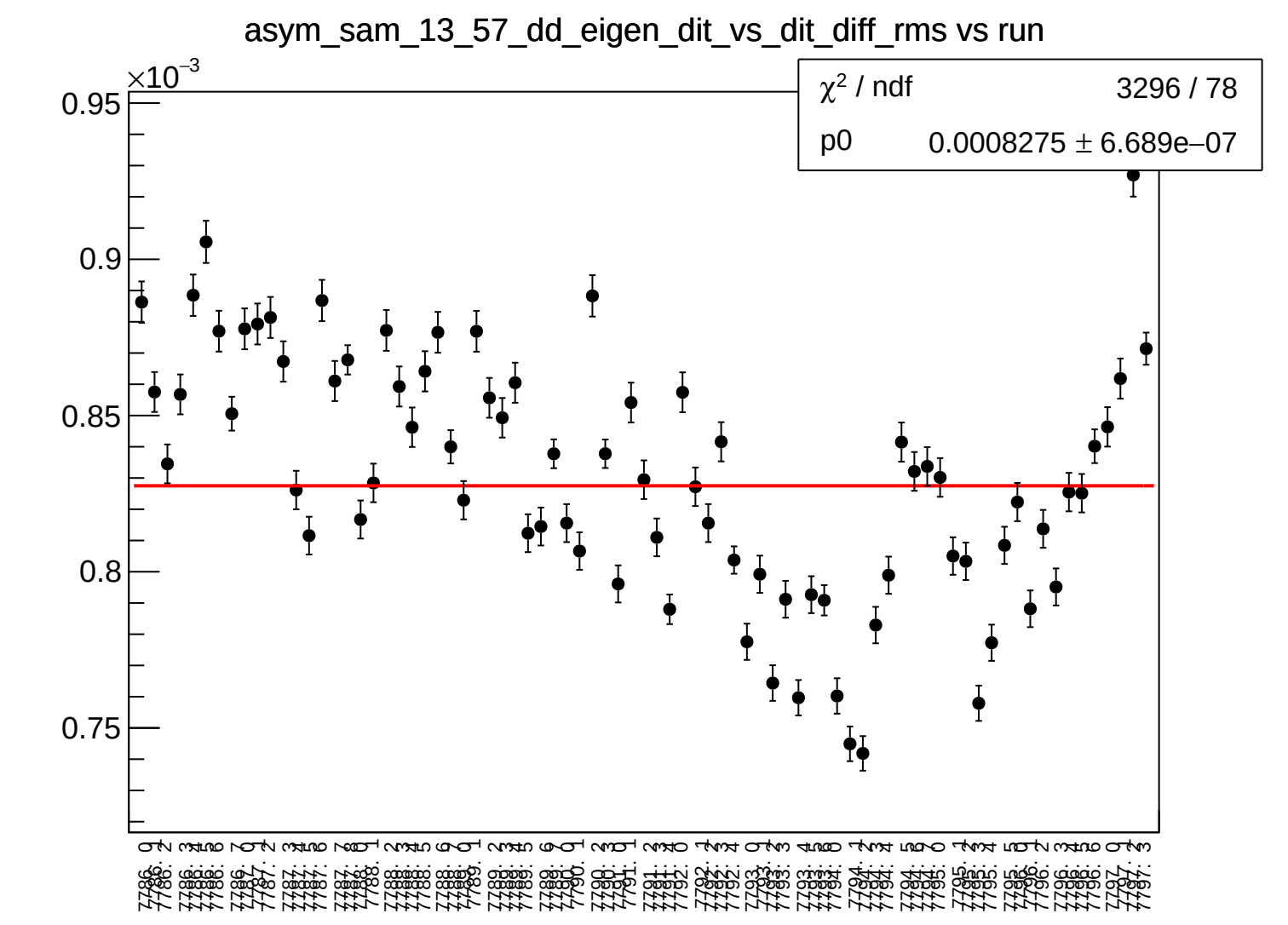

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.73 / 78
p0 0.004032 ± 0.03494
pull
Entries 79
Mean 403.4
Std Dev 0

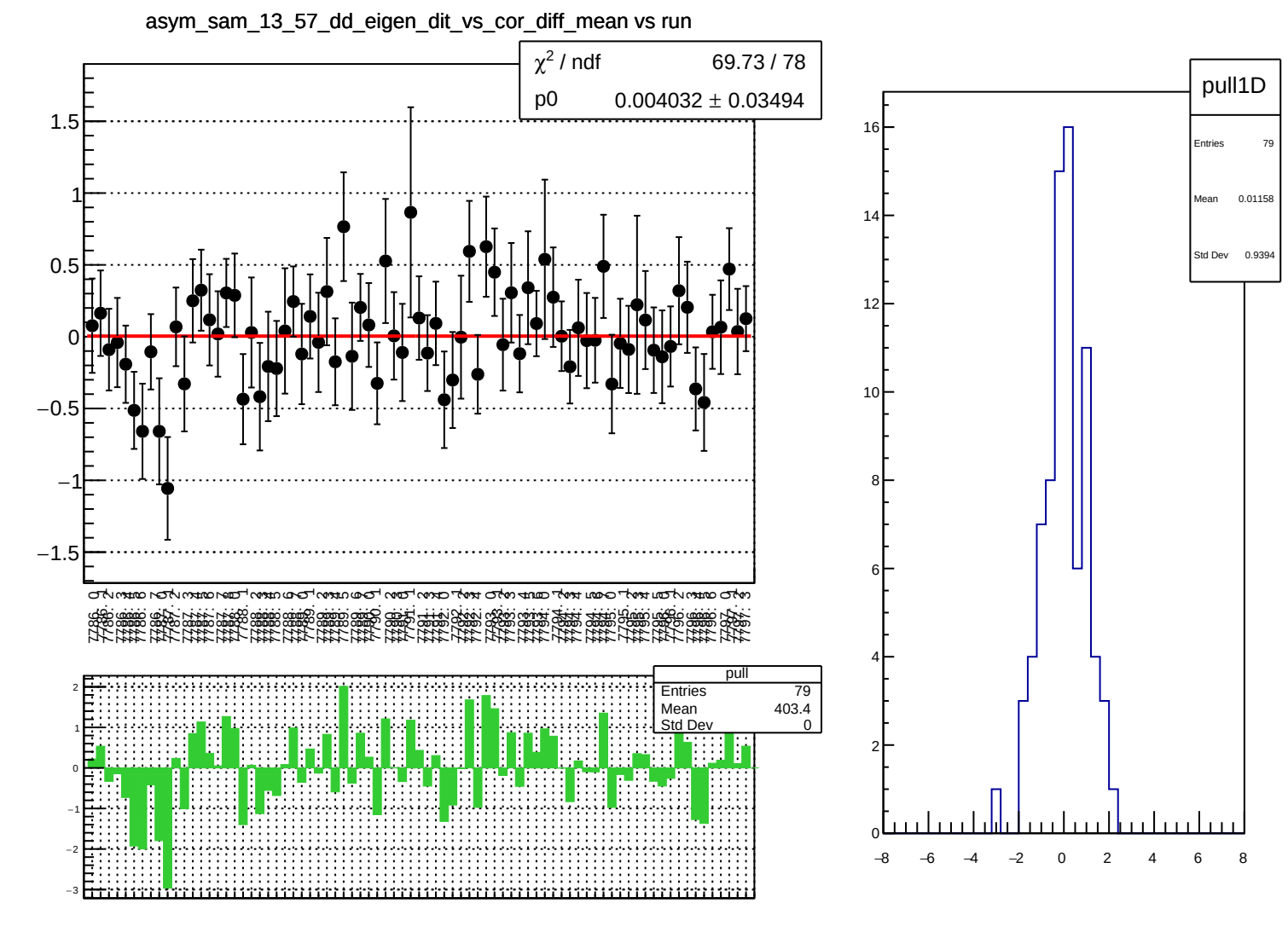

pull1D
Entries 79
Mean 0.01158
Std Dev 0.9394

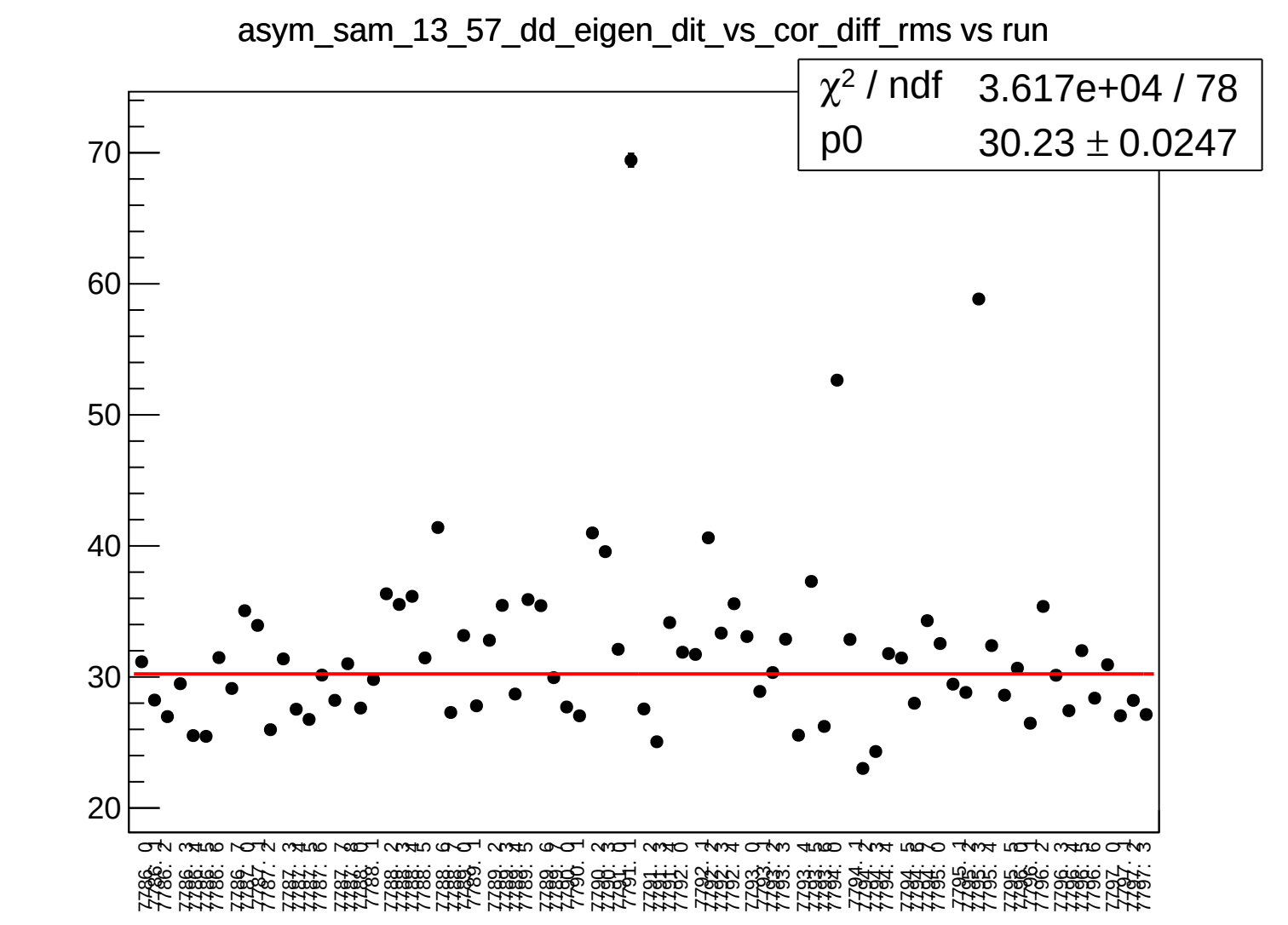

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.617e+04 / 78
p0 30.23 ± 0.0247
70
60
50
40
30
20

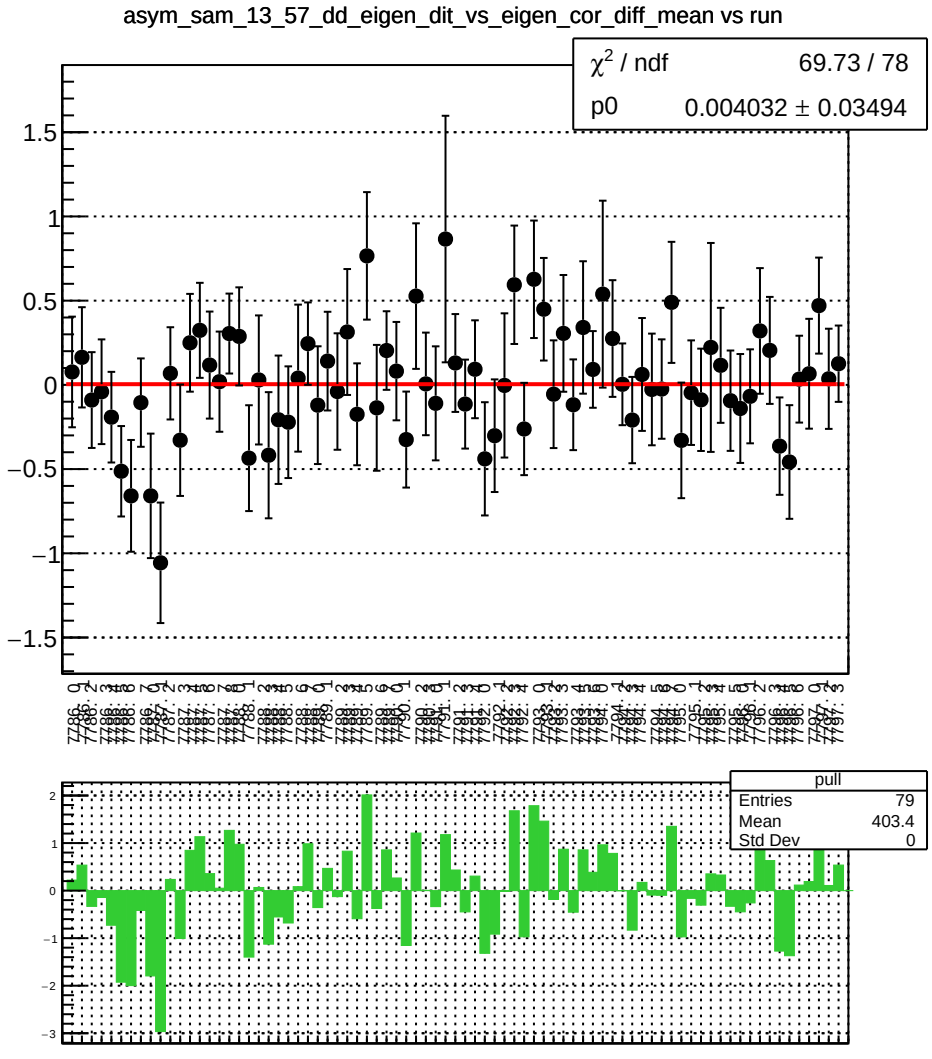

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.98 / 78
p0 −4.034e−07 ± 9.459e−07
pull
Entries 79
Mean −240.8
Std Dev 0

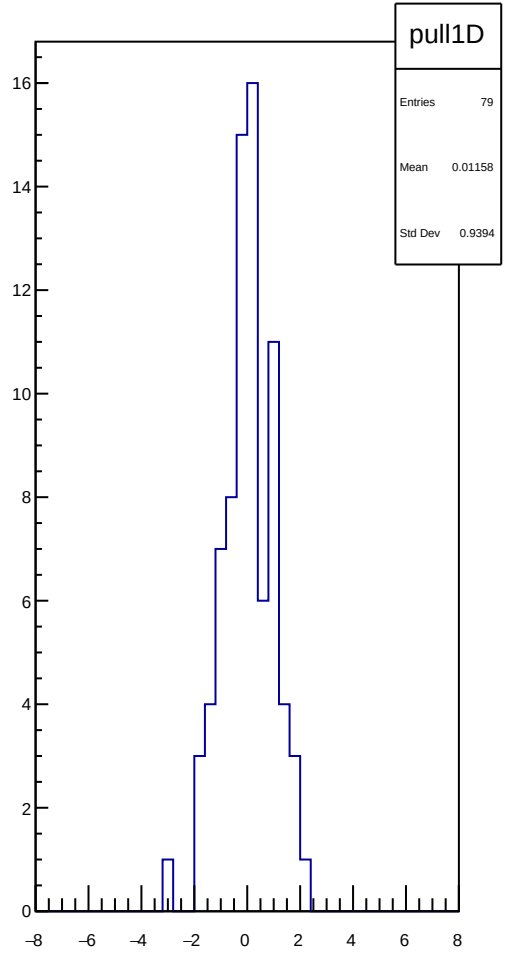

pull1D
Entries 79
Mean 0.01488
Std Dev 0.9741

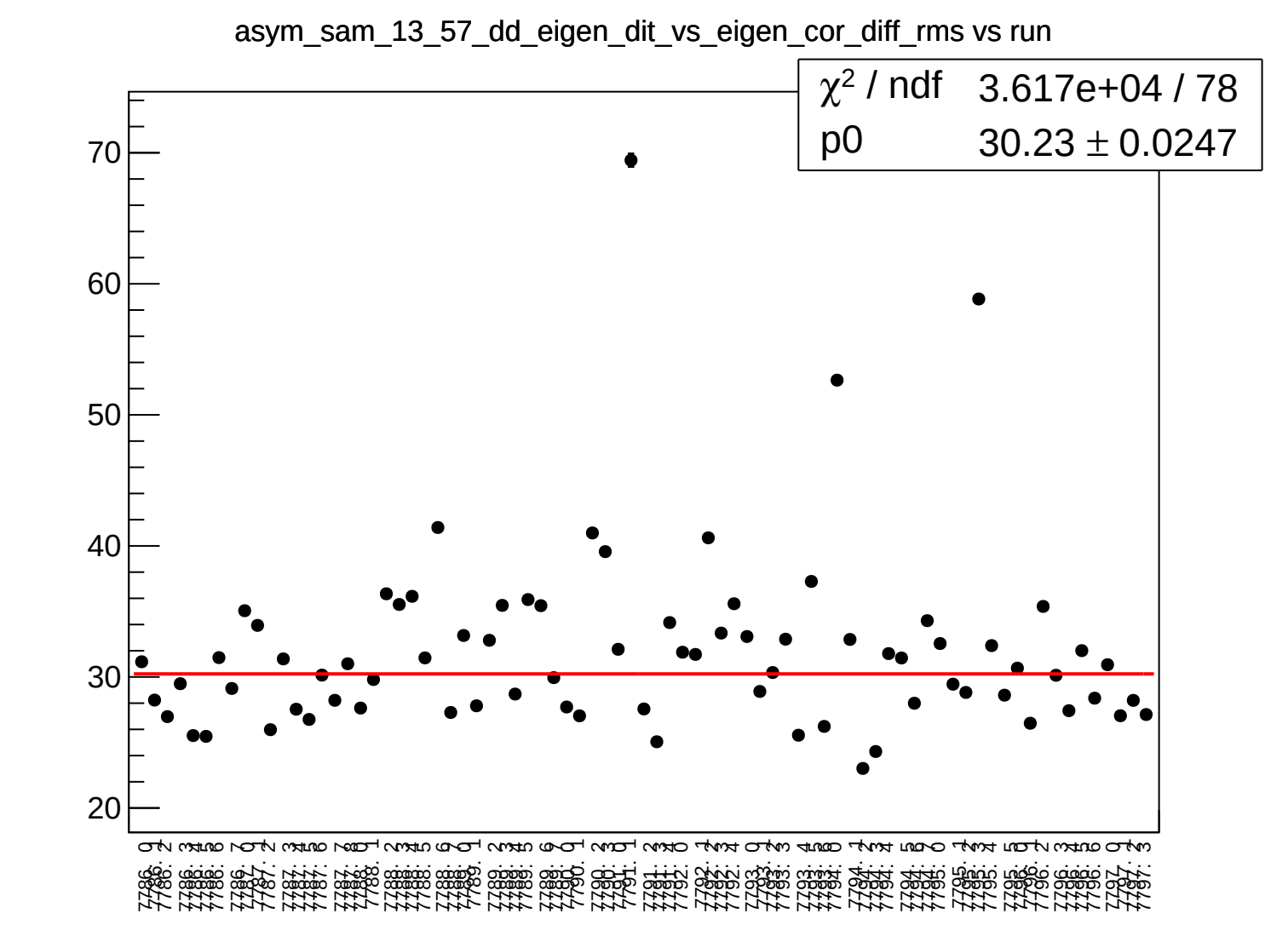

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 3296 / 78
p0 0.0008275 ± 6.689e−07
0.95
0.9
0.85
0.8
0.75

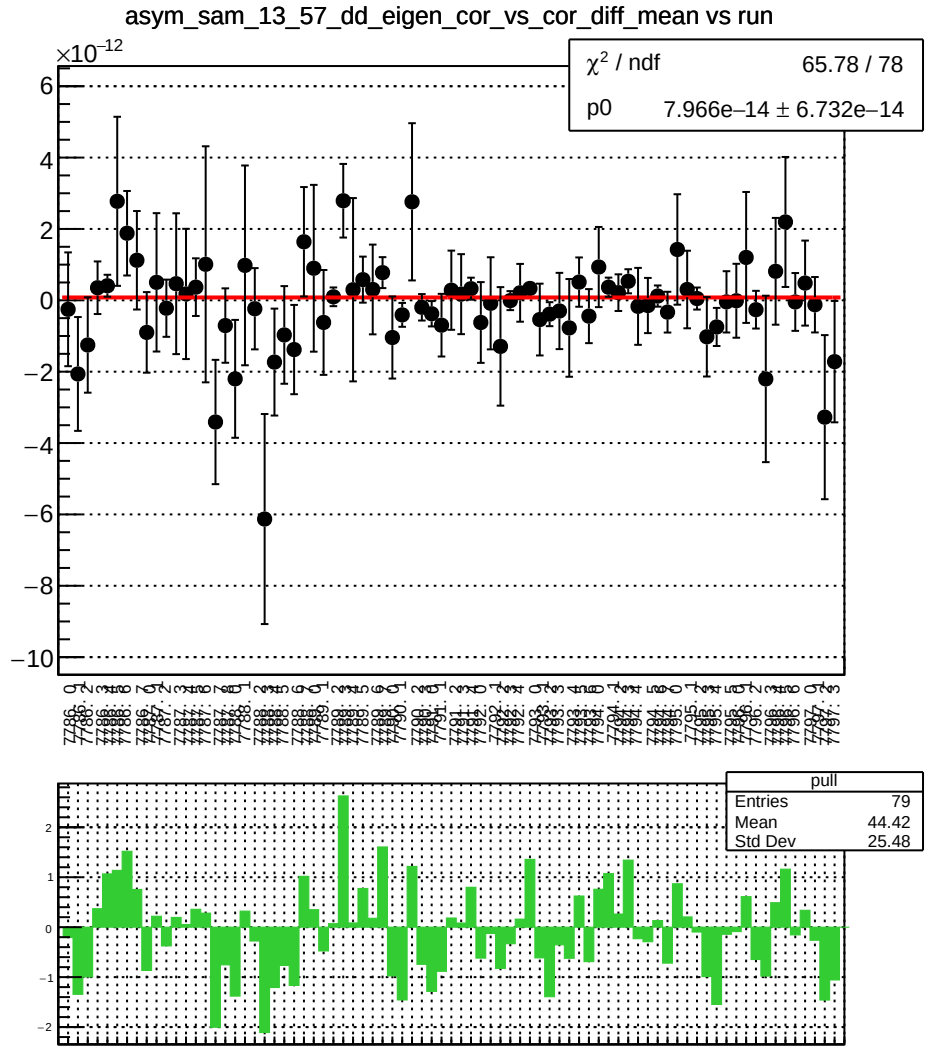

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.73 / 78
p0 0.004032 ± 0.03494
pull
Entries 79
Mean 403.4
Std Dev 0
pull1D
Entries 79
Mean 0.01158
Std Dev 0.9394

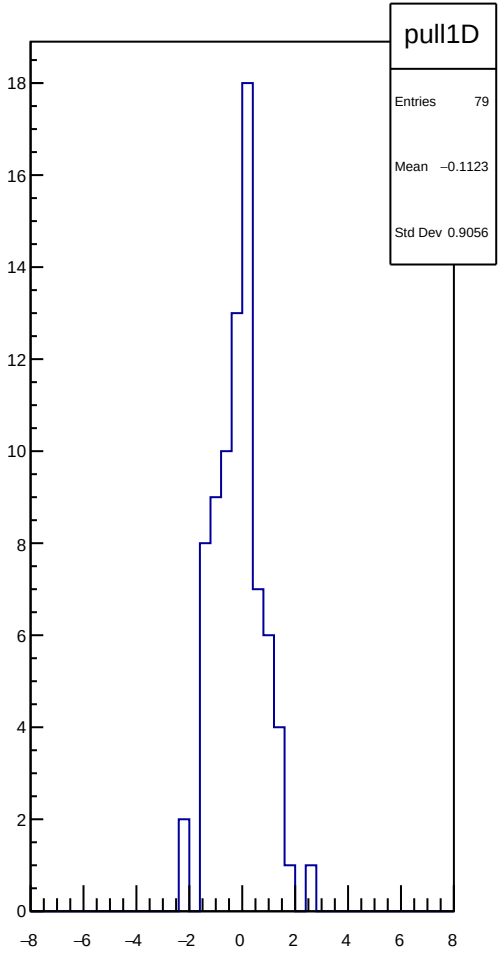

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.617e+04 / 78
p0 30.23 ± 0.0247
70
60
50
40
30
20

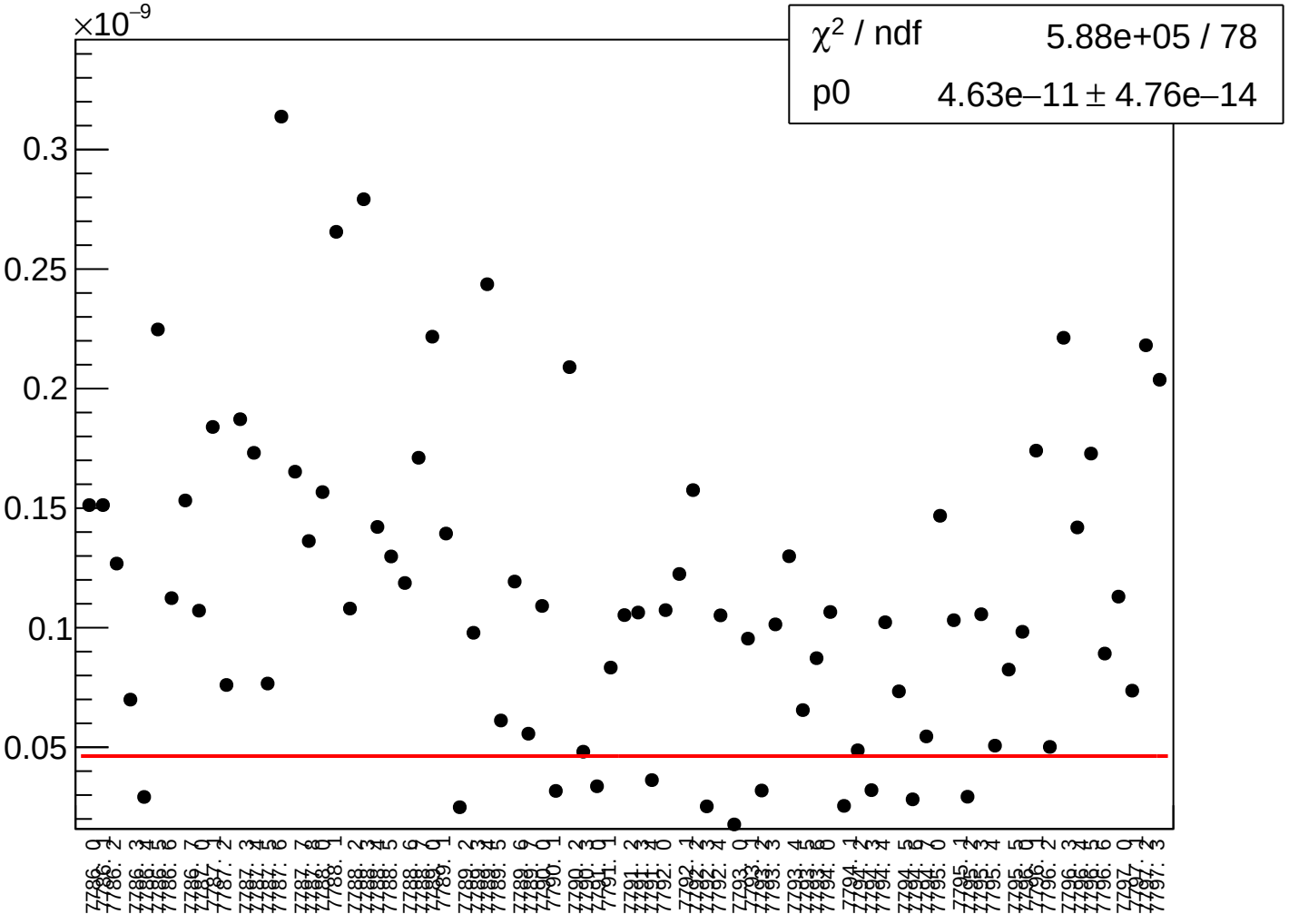

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.73 / 78
p0 0.004032 ± 0.03494
pull
Entries 79
Mean 403.4
Std Dev 0

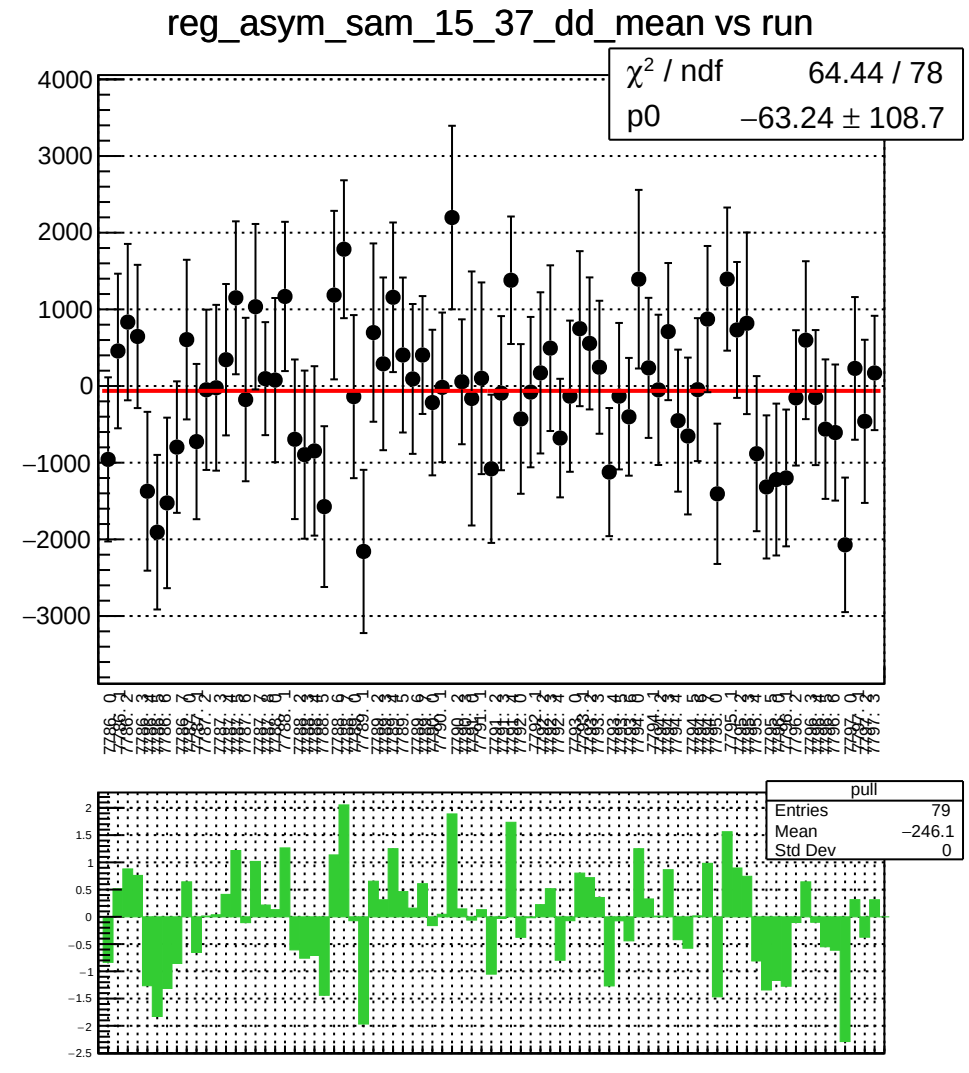

pull1D
Entries 79
Mean 0.01158
Std Dev 0.9394

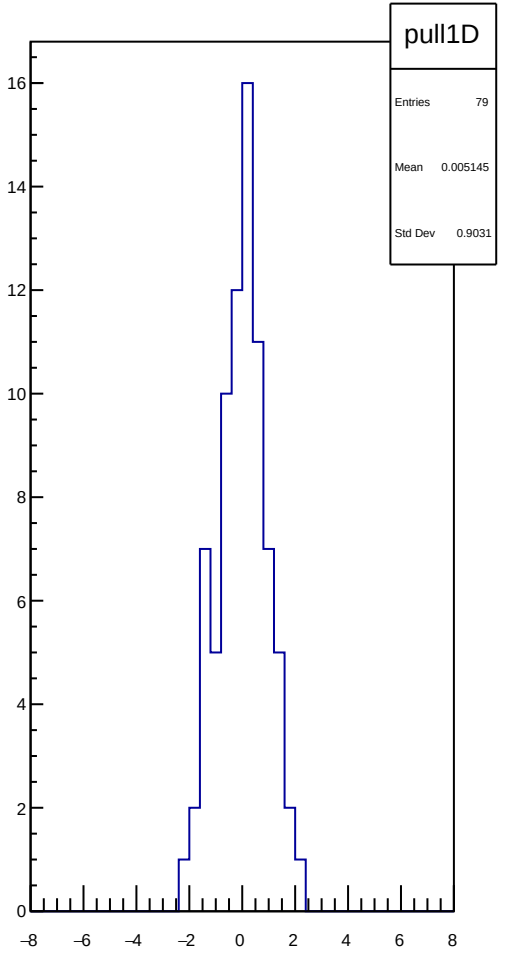

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.617e+04 / 78
p0 30.23 ± 0.0247
70
60
50
40
30
20

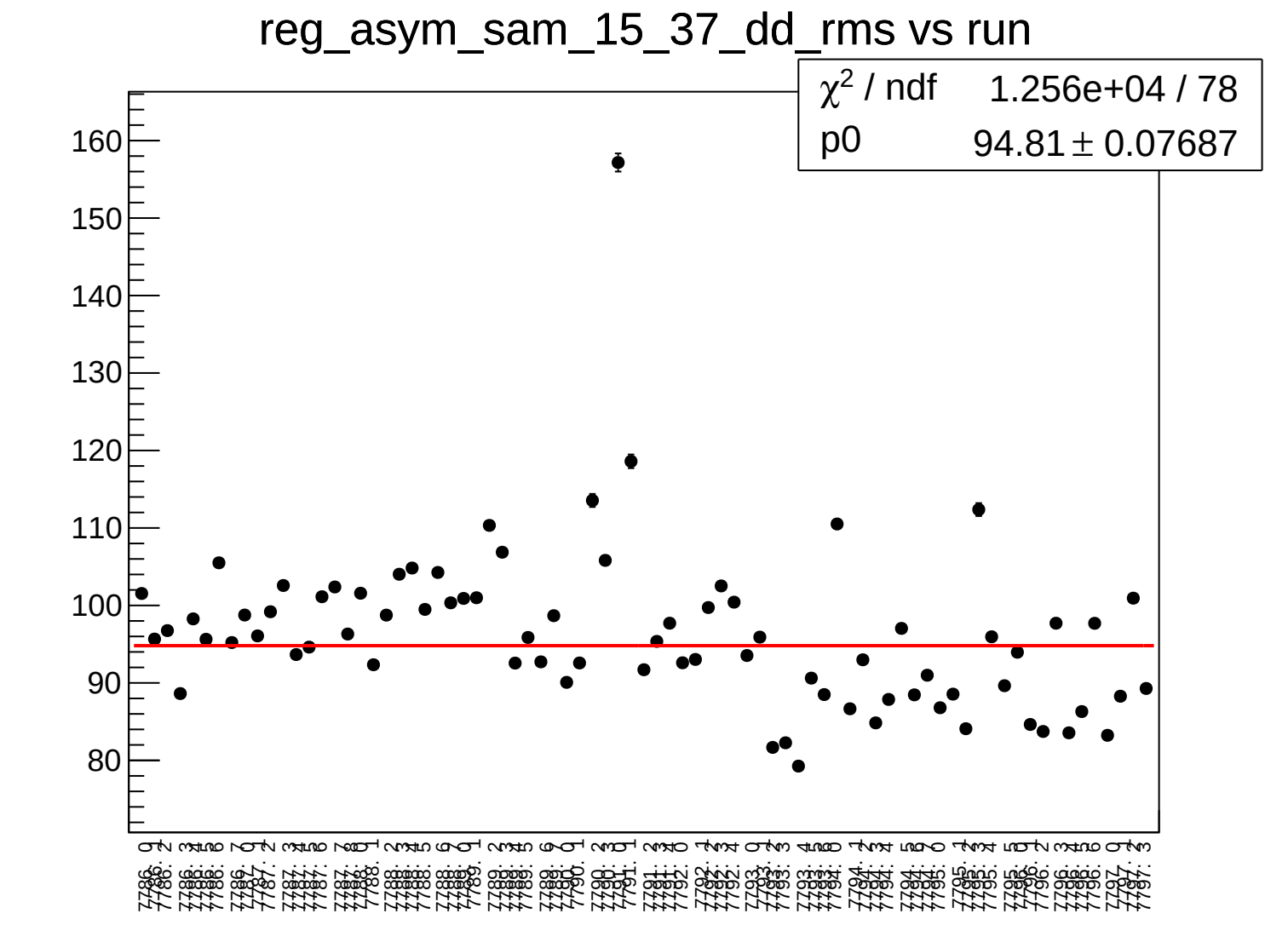

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.78 / 78
p0 7.966e−14 ± 6.732e−14
pull
Entries 79
Mean 44.42
Std Dev 25.48

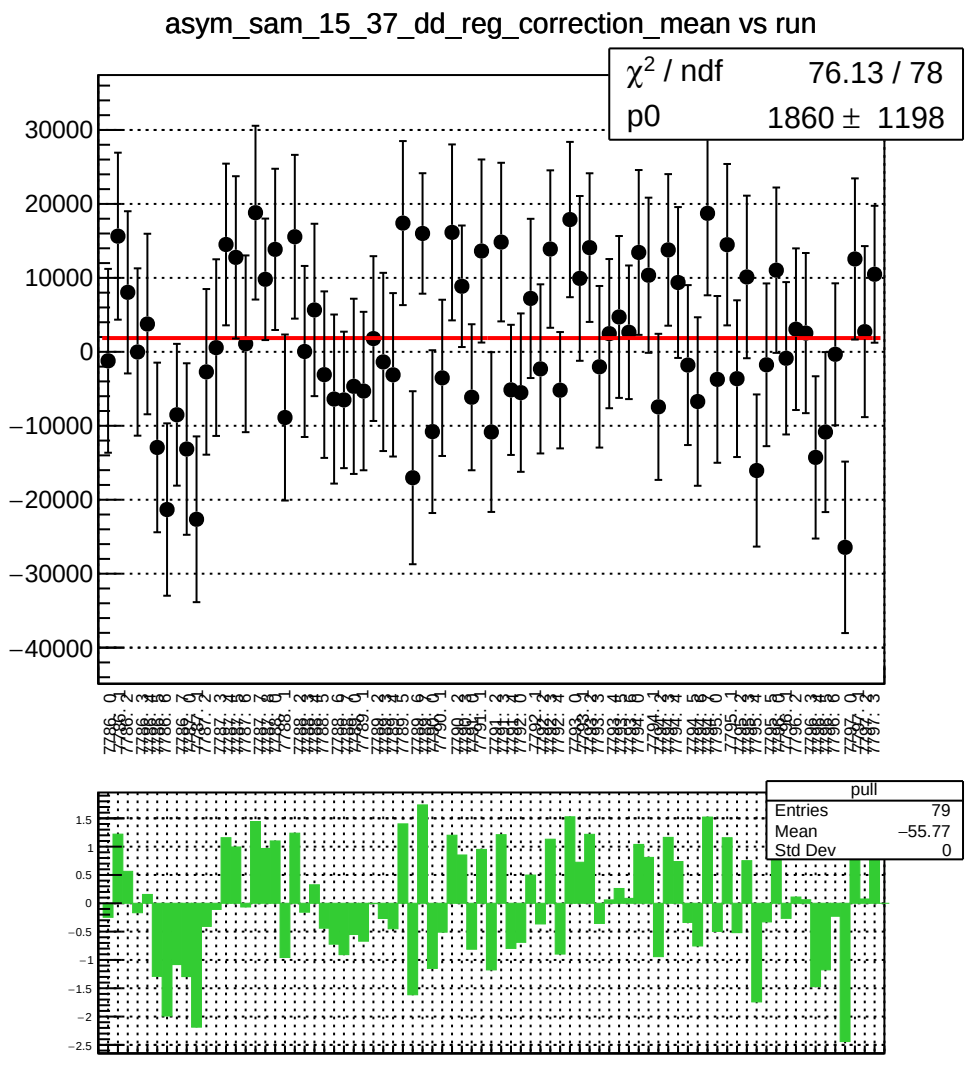

pull1D
Entries 79
Mean −0.1123
Std Dev 0.9056

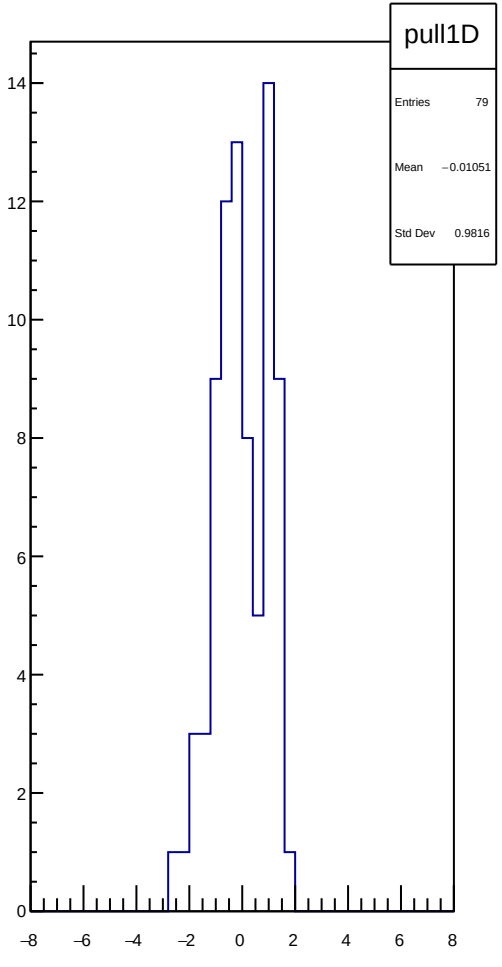

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.88e+05 / 78
p0 4.63e−11 ± 4.76e−14
0.3
0.25
0.2
0.15
0.1
0.05

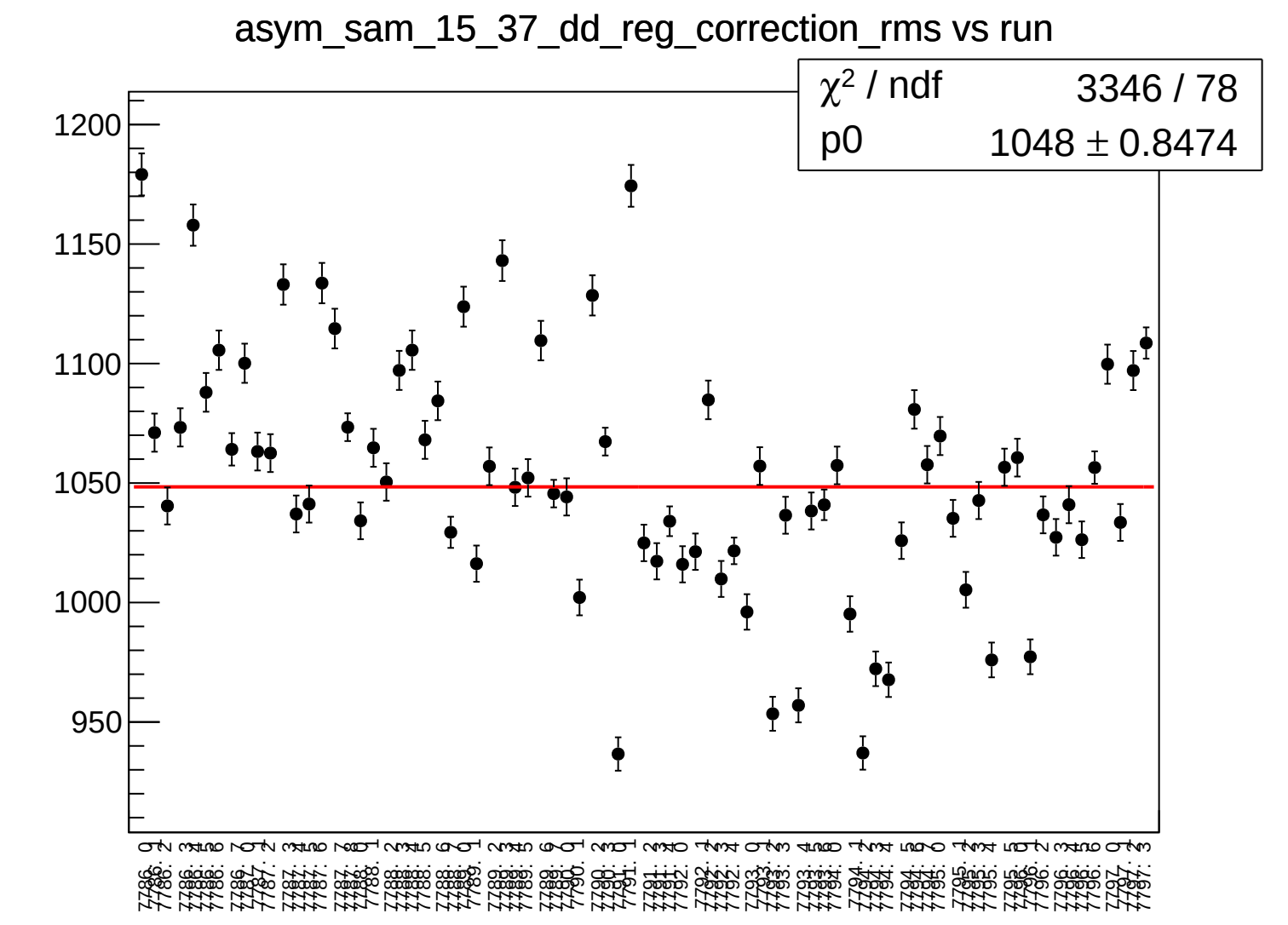

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 64.44 / 78
p0 −63.24 ± 108.7
pull
Entries 79
Mean −246.1
Std Dev 0

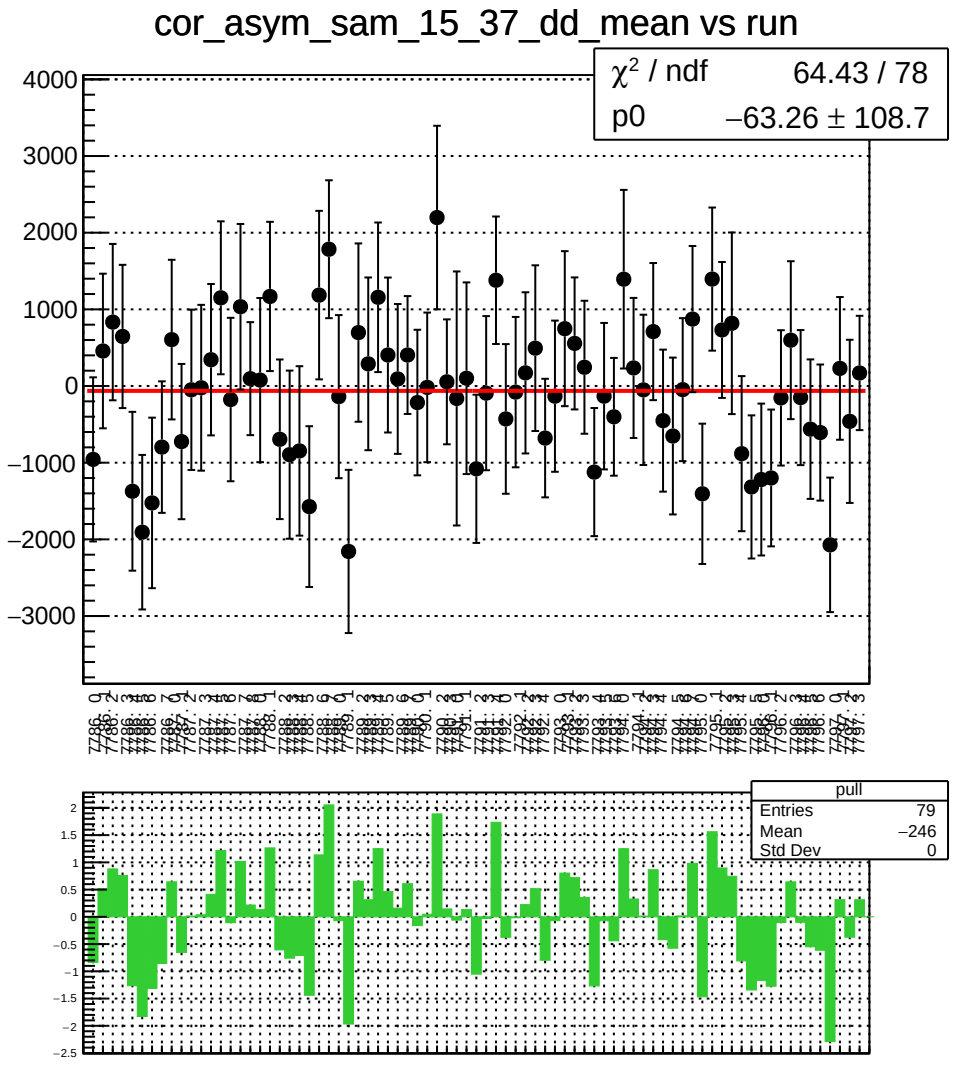

pull1D
Entries 79
Mean 0.005145
Std Dev 0.9031

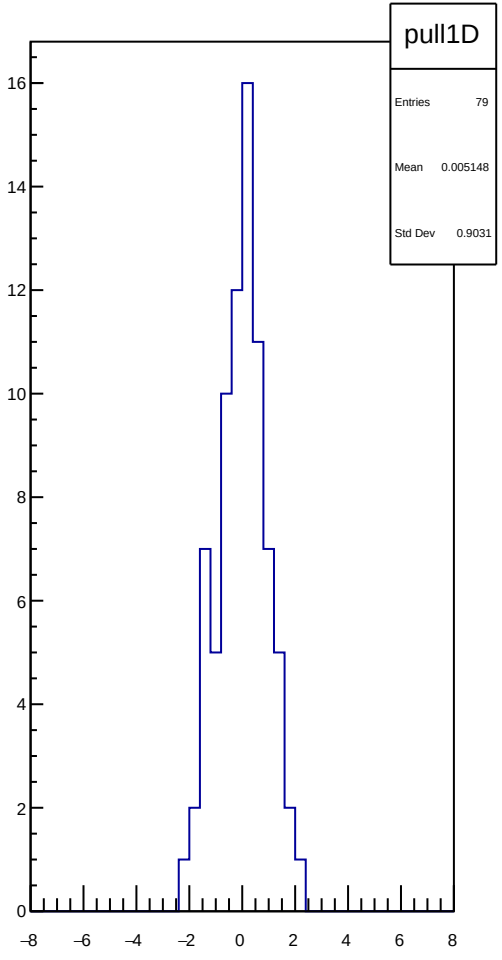

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.256e+04 / 78
p0 94.81 ± 0.07687
160
150
140
130
120
110
100
90
80

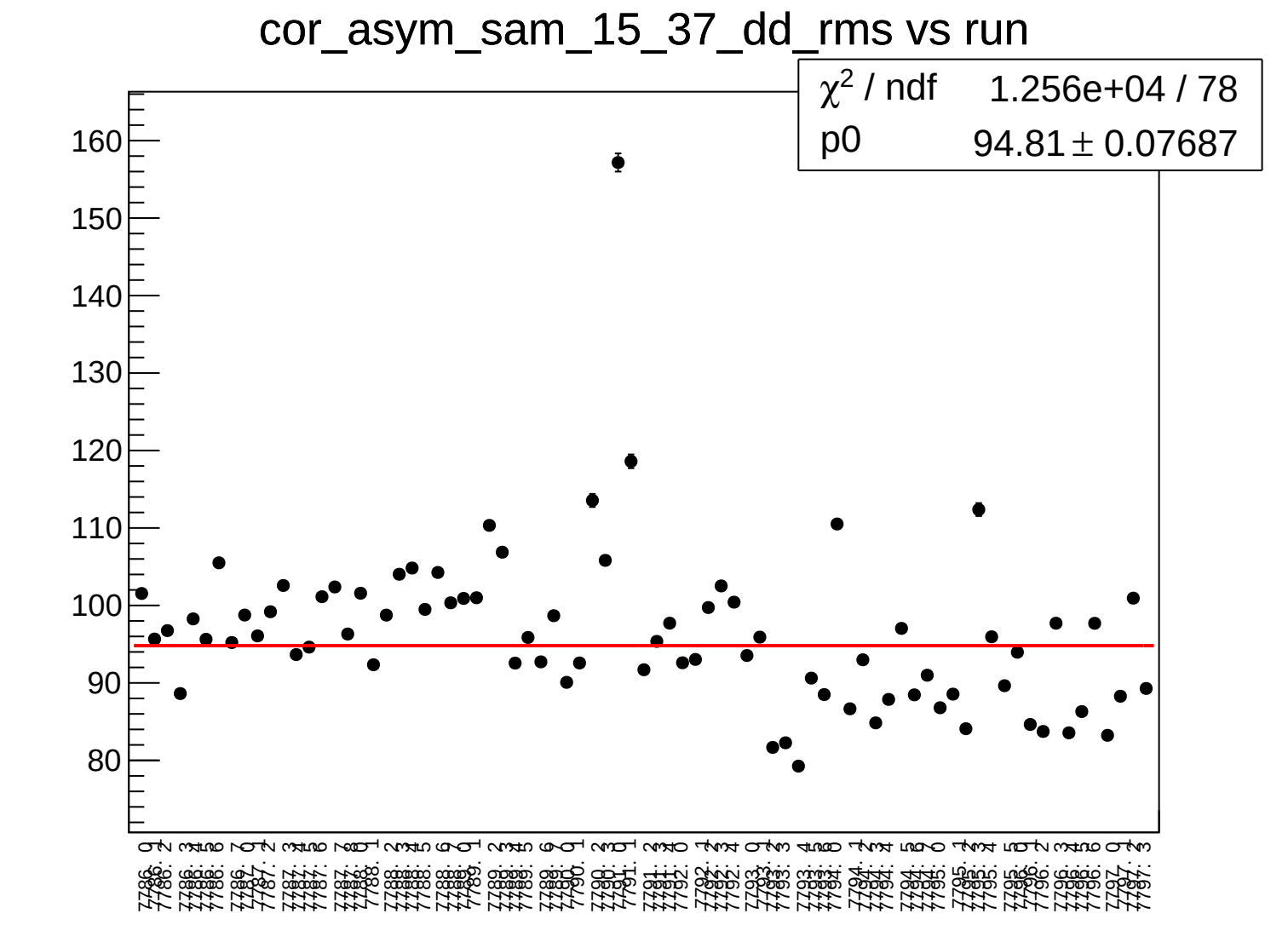

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 76.13 / 78
p0 1860 ± 1198
pull
Entries 79
Mean −55.77
Std Dev 0

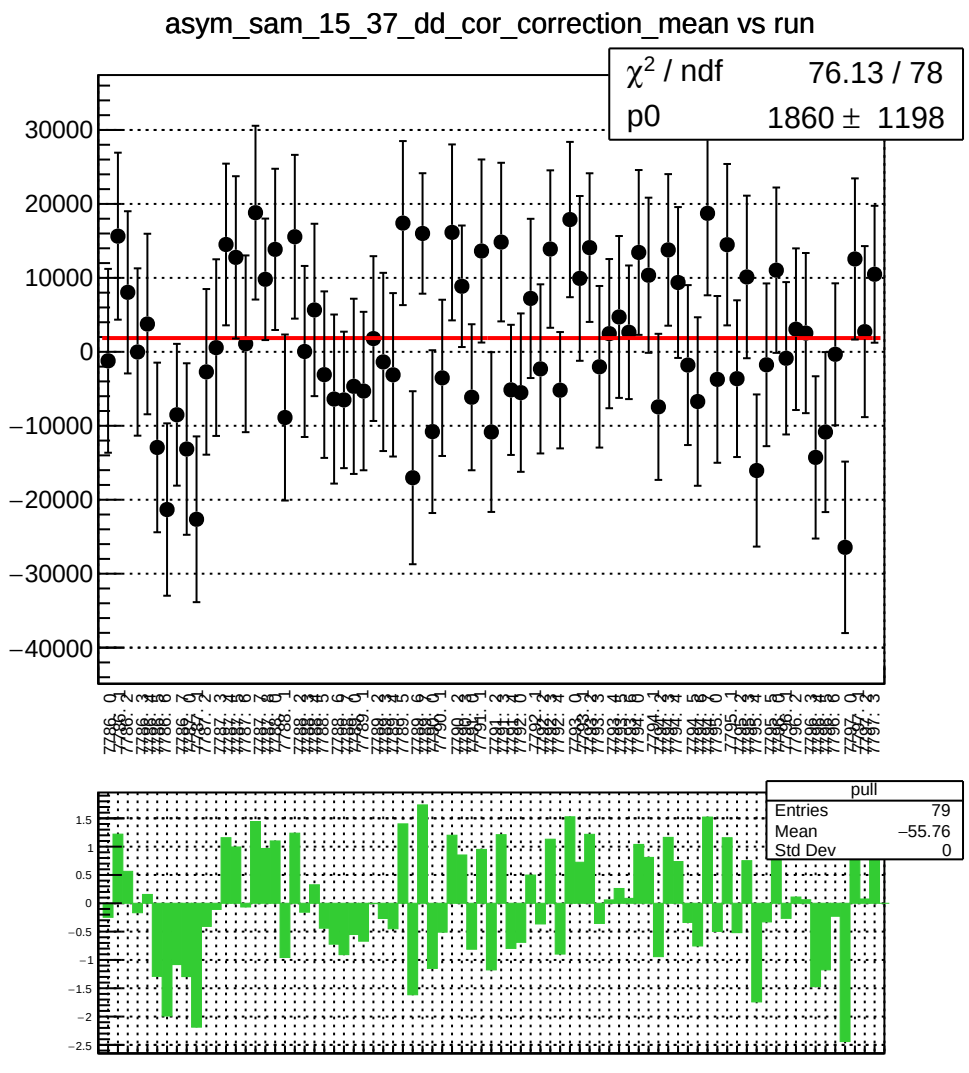

pull1D
Entries 79
Mean −0.01051
Std Dev 0.9816

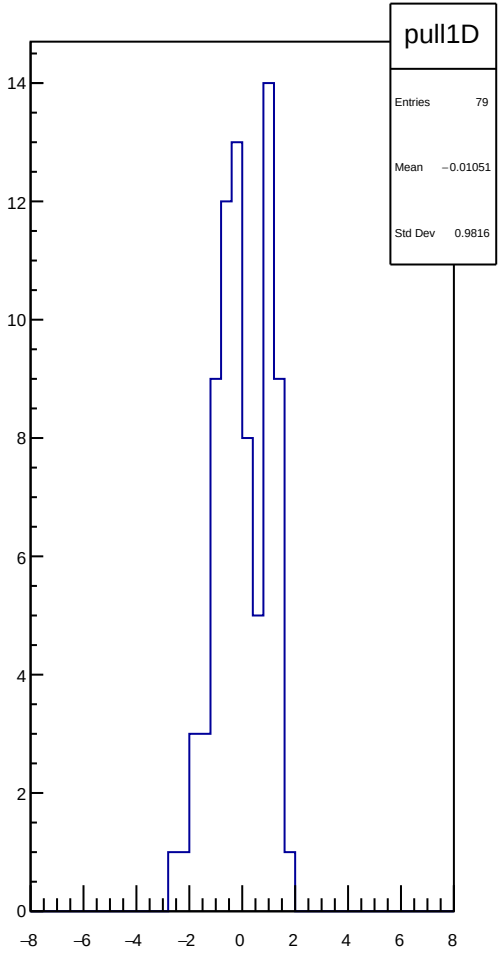

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 3346 / 78
p0 1048 ± 0.8474
1200
1150
1100
1050
1000
950

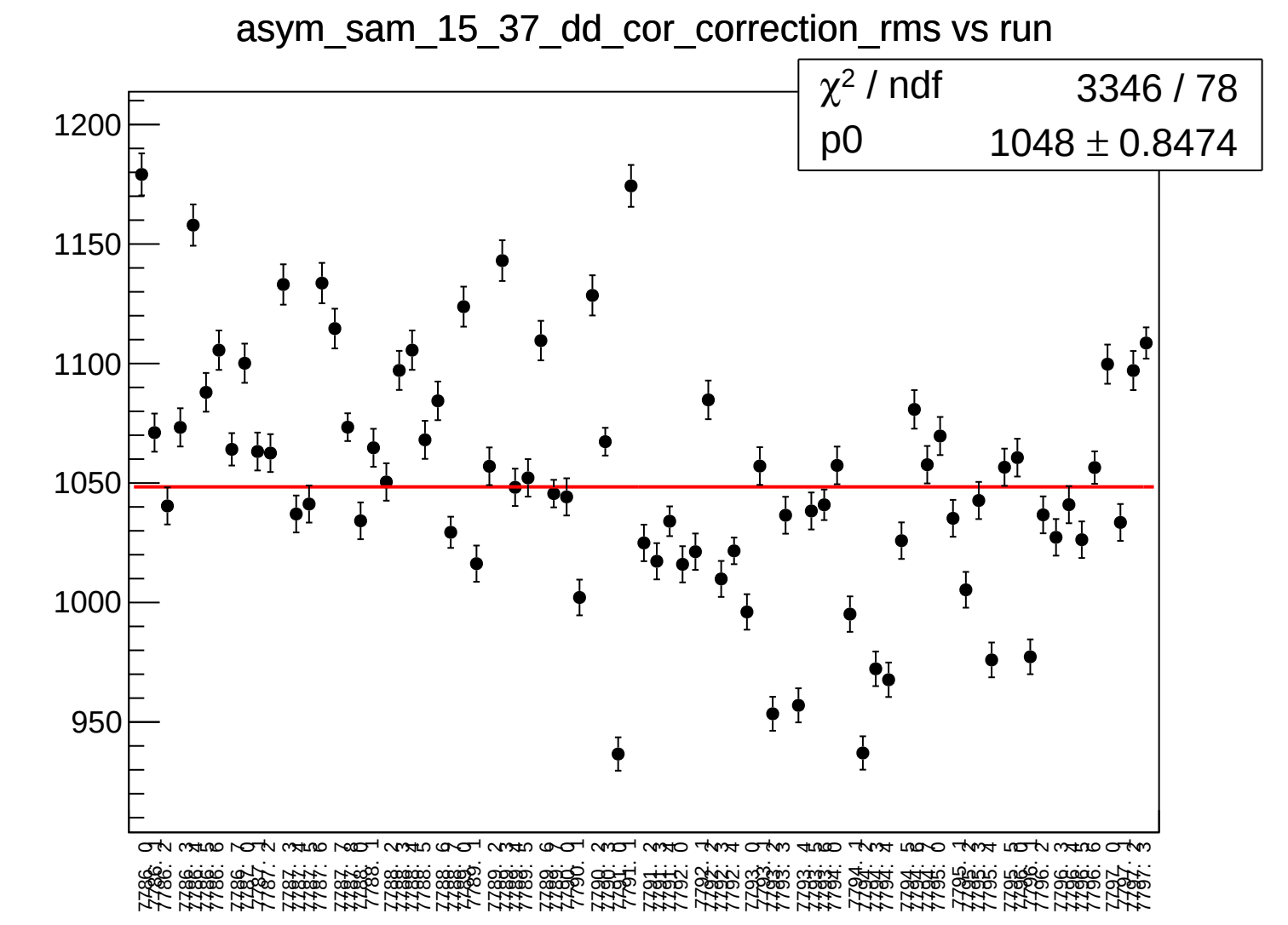

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 64.43 / 78
p0 −63.26 ± 108.7
pull
Entries 79
Mean −246
Std Dev 0

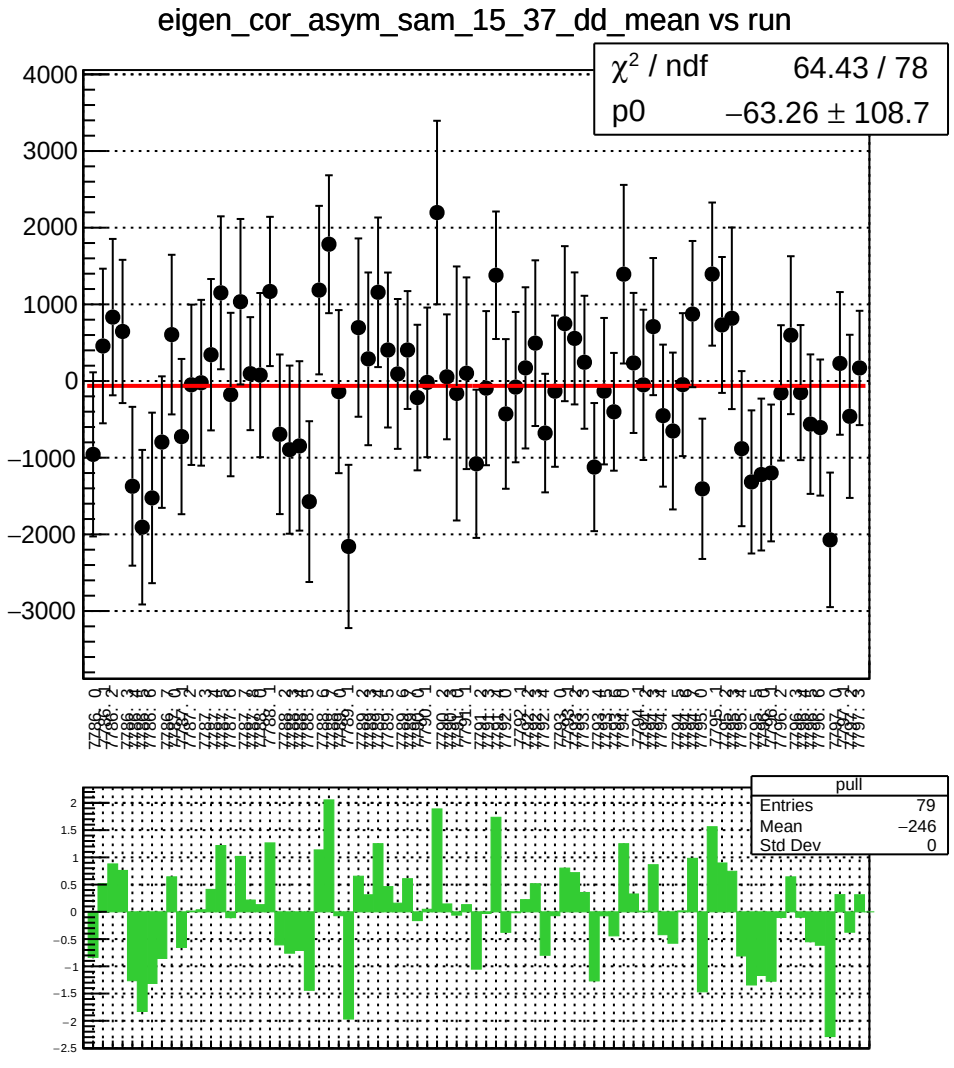

pull1D
Entries 79
Mean 0.005148
Std Dev 0.9031

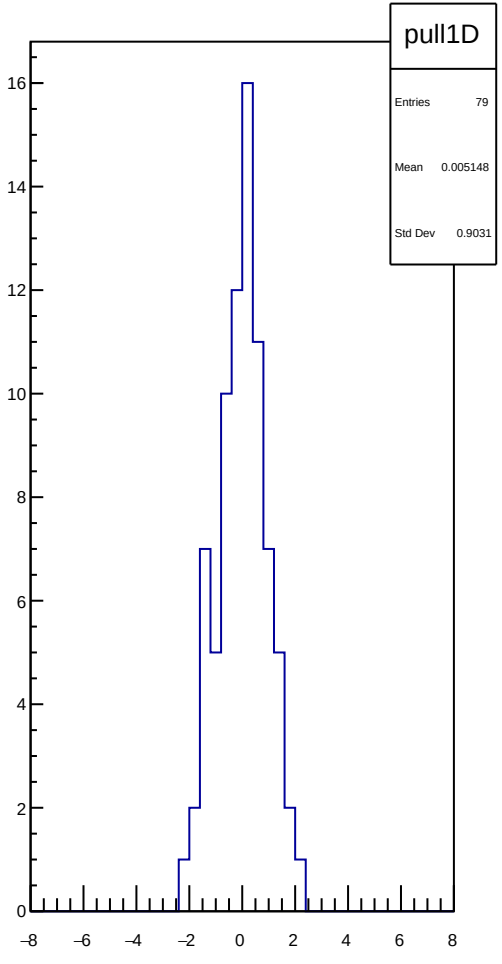

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.256e+04 / 78
p0 94.81 ± 0.07687
160
150
140
130
120
110
100
90
80

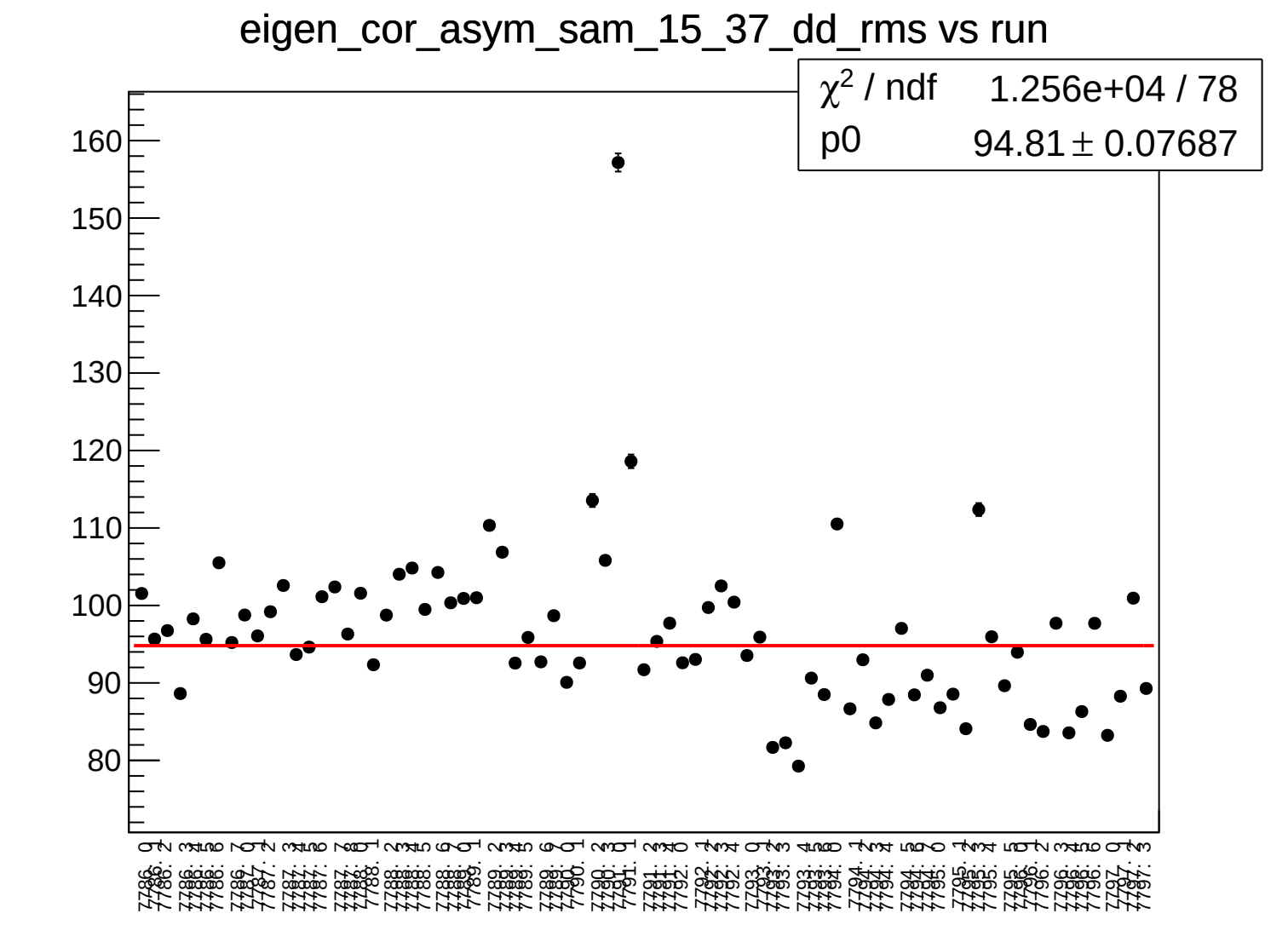

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 76.13 / 78
p0 1860 ± 1198
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 79
Mean −55.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

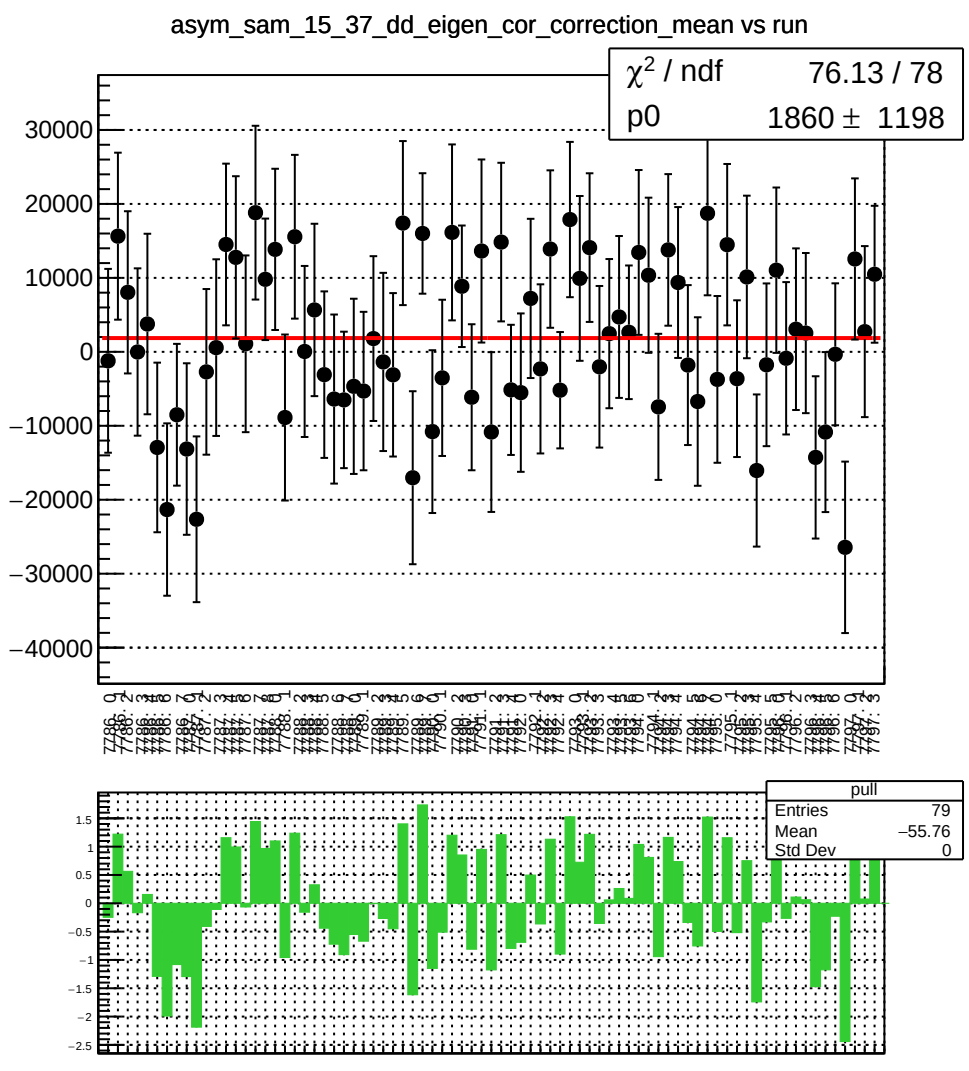

pull1D
Entries 79
Mean −0.01051
Std Dev 0.9816
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

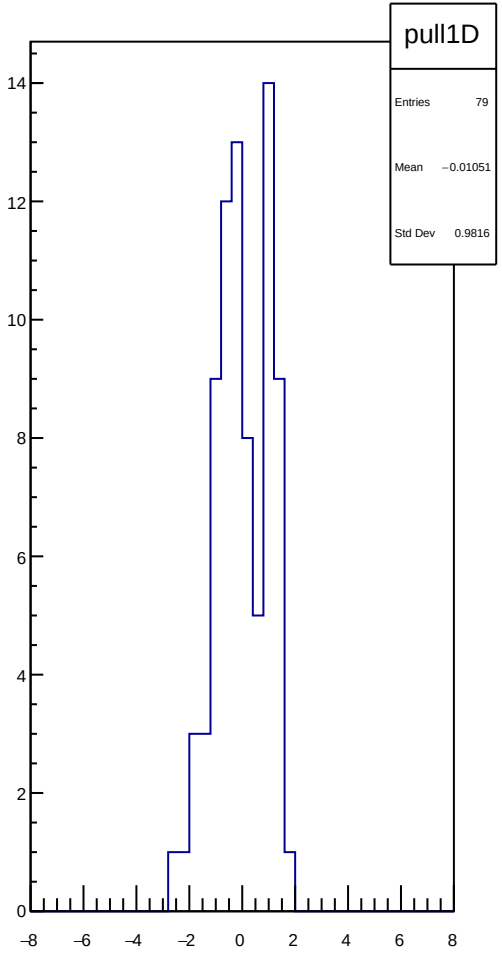

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 3346 / 78
p0 1048 ± 0.8474
1200
1150
1100
1050
1000
950

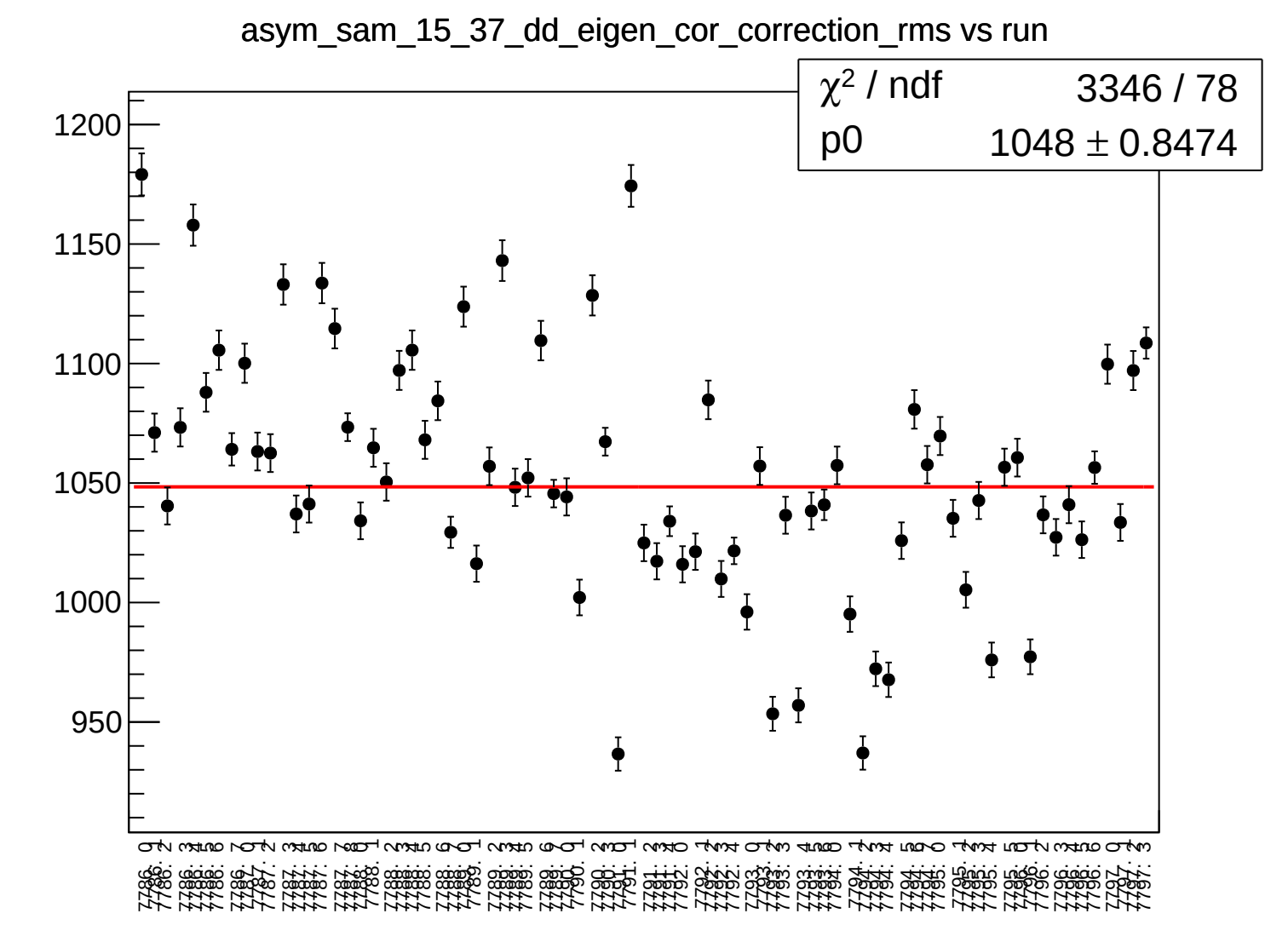

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 64.43 / 78
p0 −63.26 ± 108.7
pull
Entries 79
Mean −246
Std Dev 0

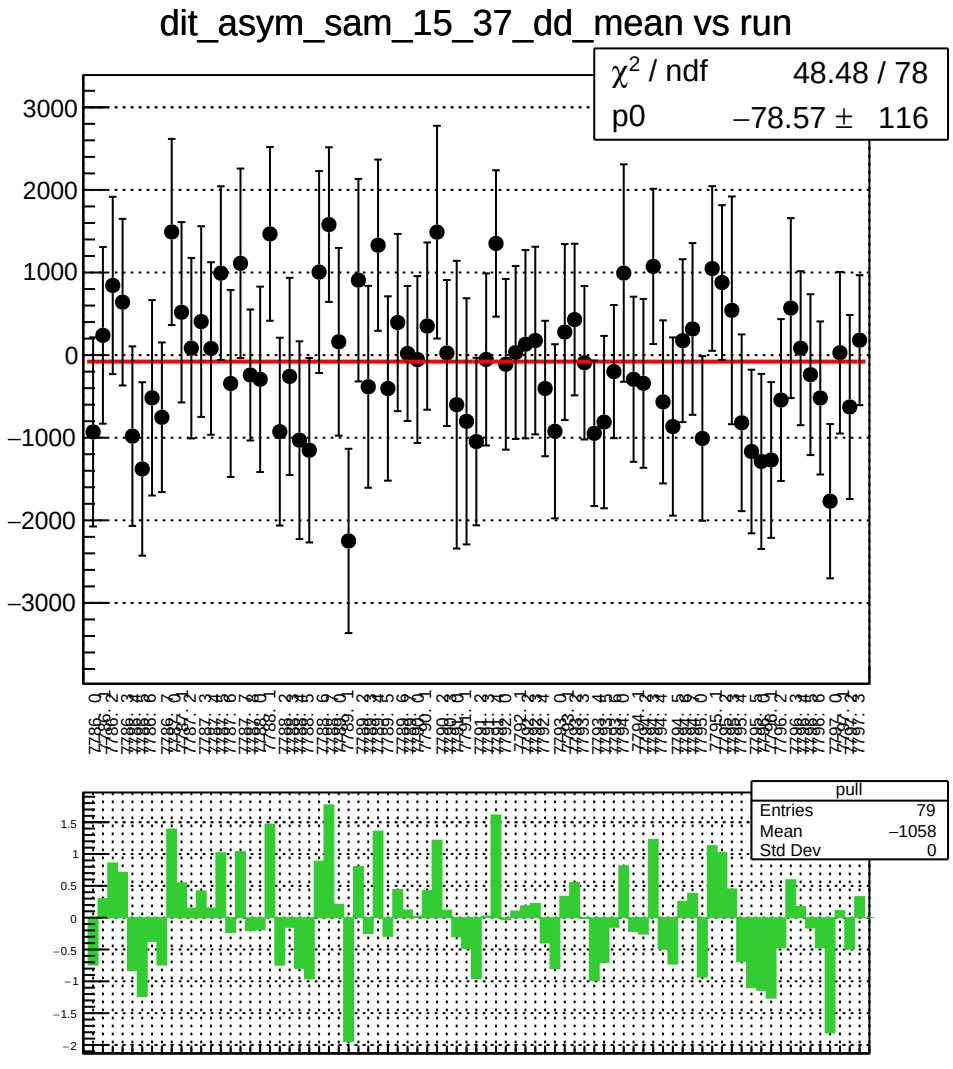

pull1D
Entries 79
Mean 0.005148
Std Dev 0.9031

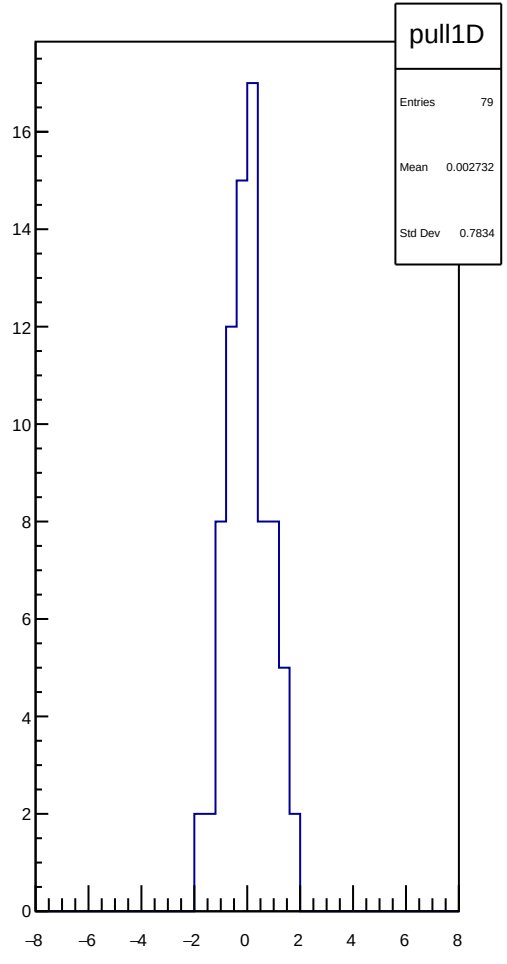

eigen_cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.256e+04 / 78
p0 94.81 ± 0.07687
160
150
140
130
120
110
100
90
80

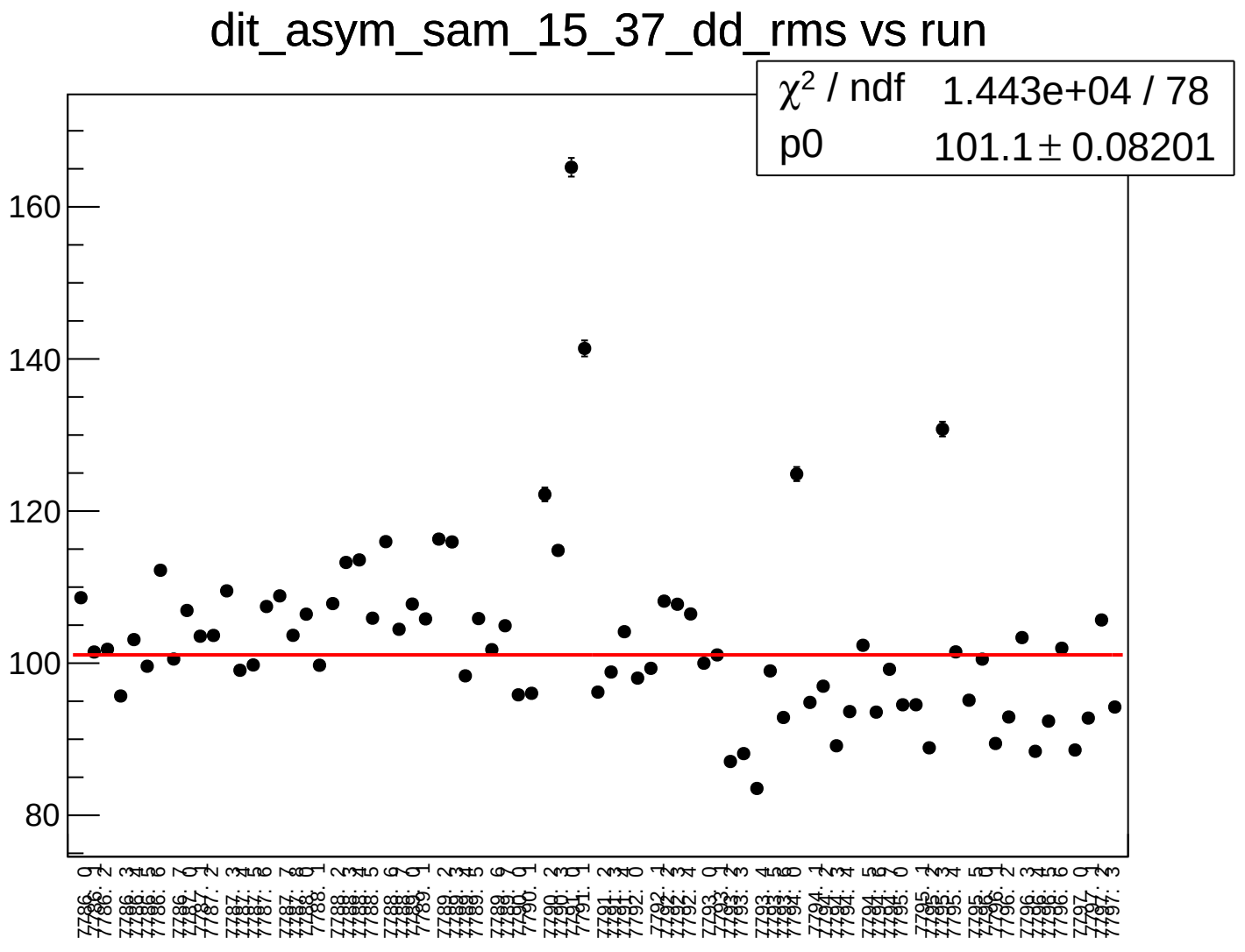

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.13 / 78
p0 1860 ± 1198
pull
Entries 79
Mean −55.76
Std Dev 0

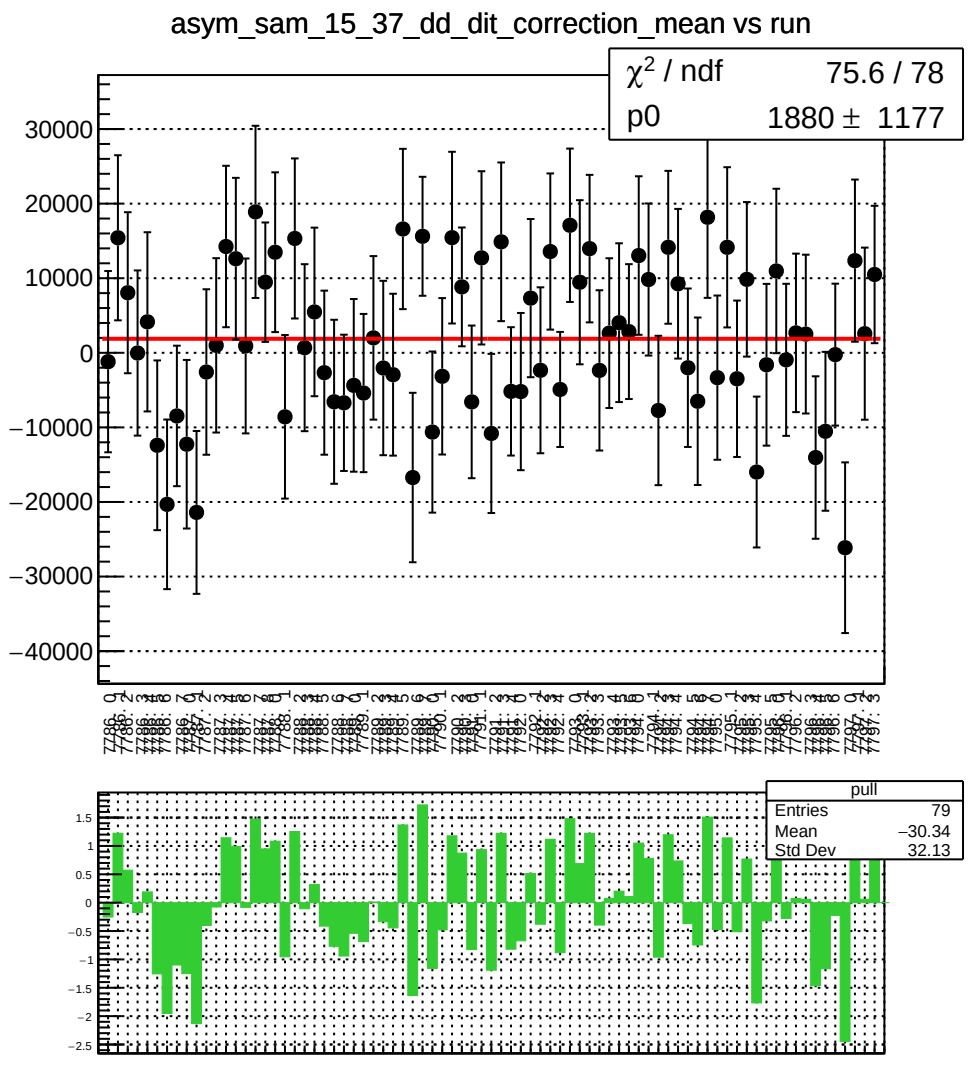

pull1D
Entries 79
Mean −0.01051
Std Dev 0.9816

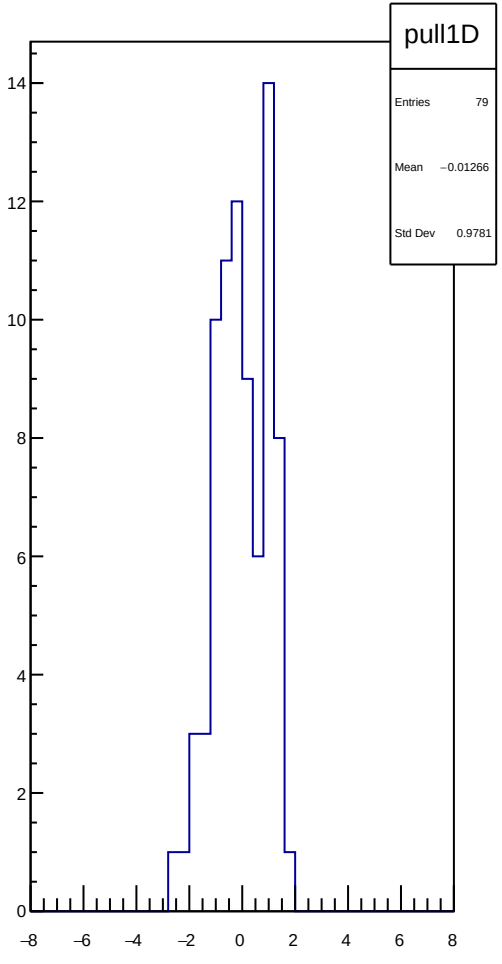

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 3346 / 78
p0 1048 ± 0.8474
1200
1150
1100
1050
1000
950

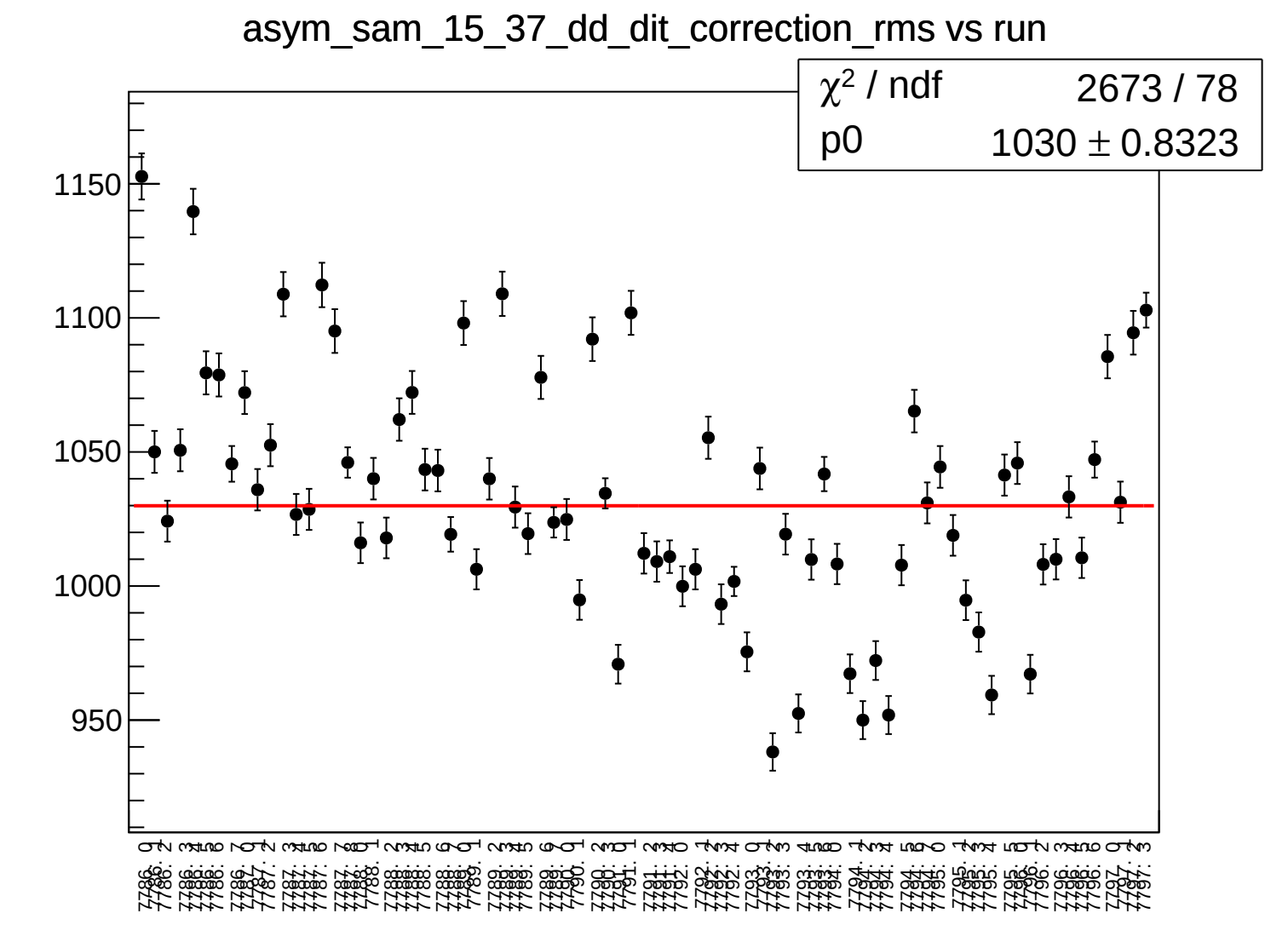

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 48.48 / 78
p0 −78.57 ± 116
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 79
Mean −1058
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

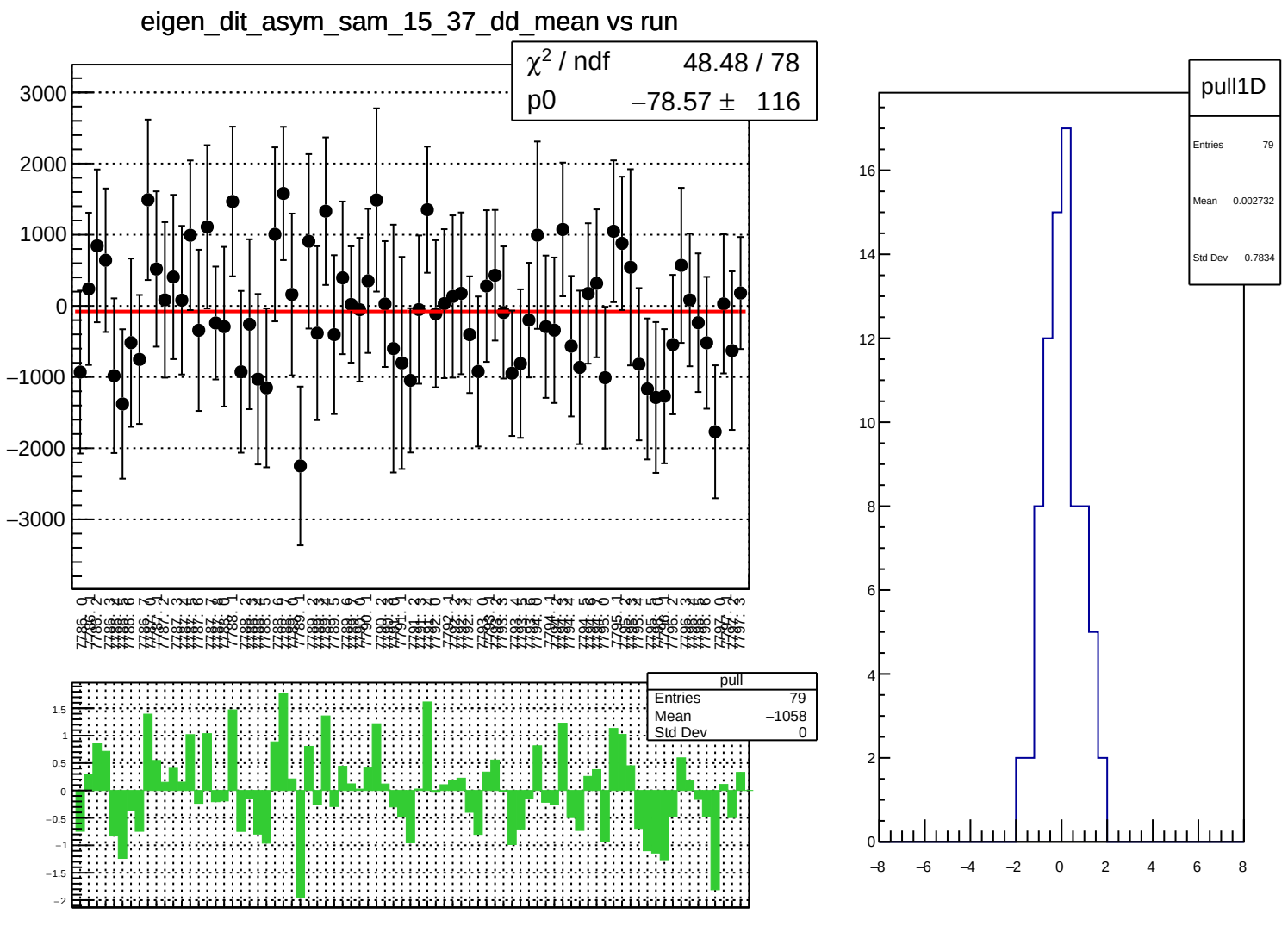

pull1D
Entries 79
Mean 0.002732
Std Dev 0.7834
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

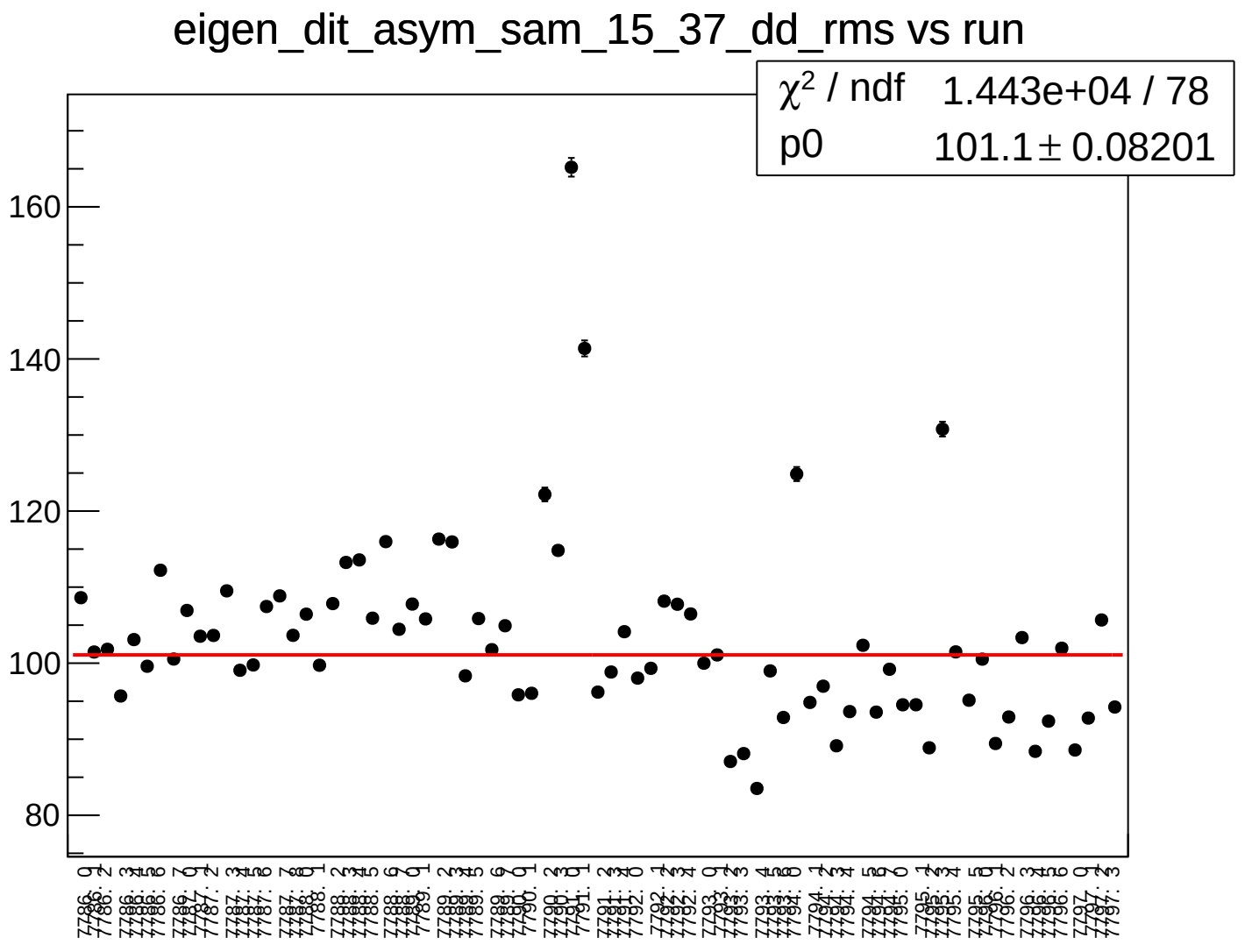

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.443e+04 / 78
p0 101.1 ± 0.08201
160
140
120
100
80

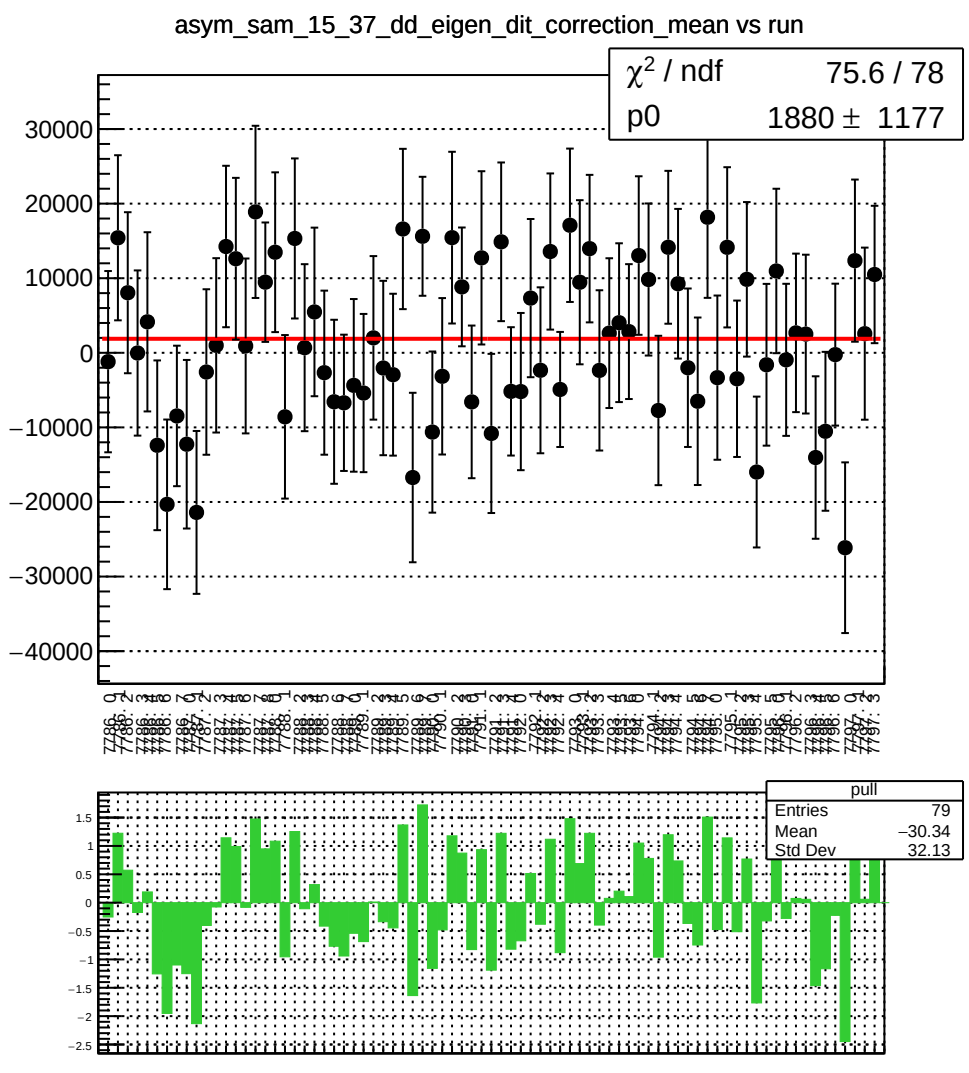

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 75.6 / 78
p0 1880 ± 1177
pull
Entries 79
Mean −30.34
Std Dev 32.13

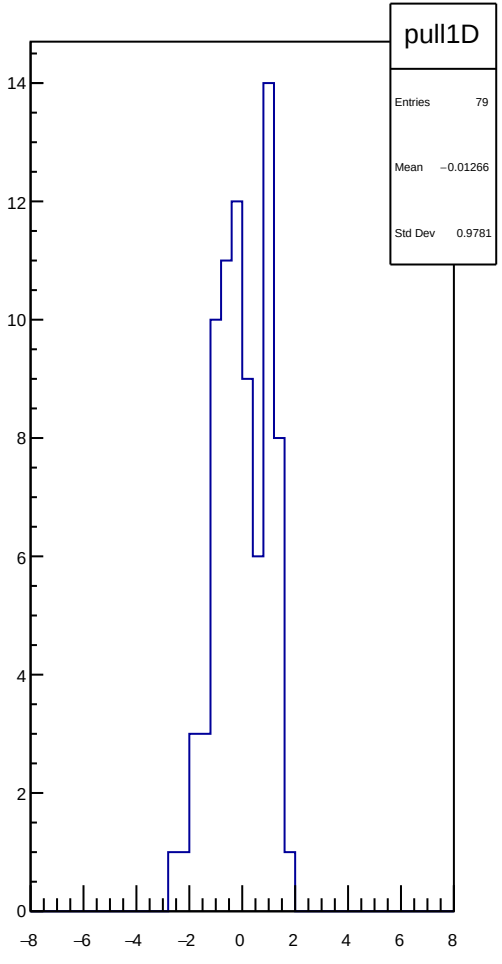

pull1D
Entries 79
Mean −0.01266
Std Dev 0.9781

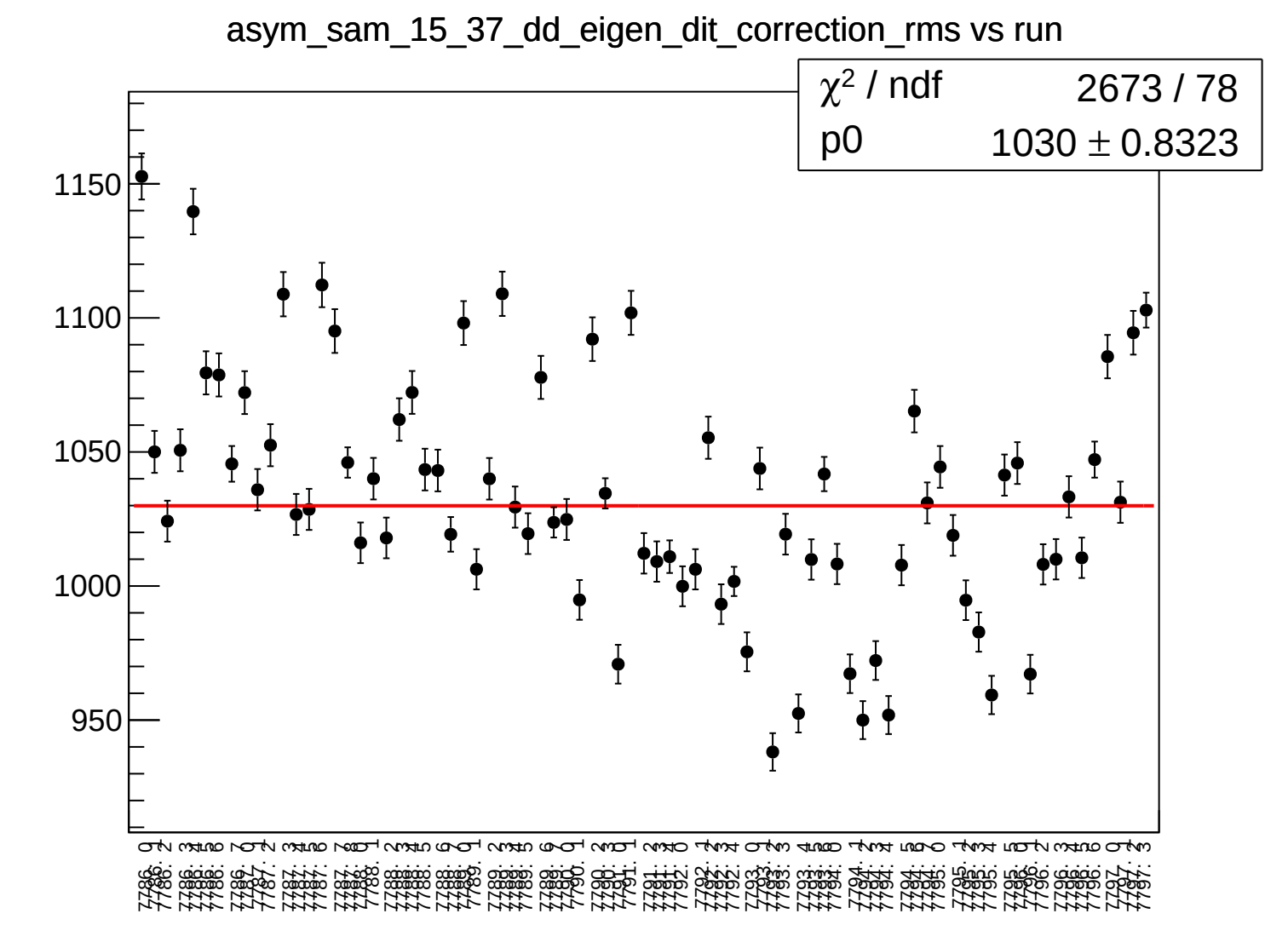

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 2673 / 78
p0 1030 ± 0.8323
1150
1100
1050
1000
950

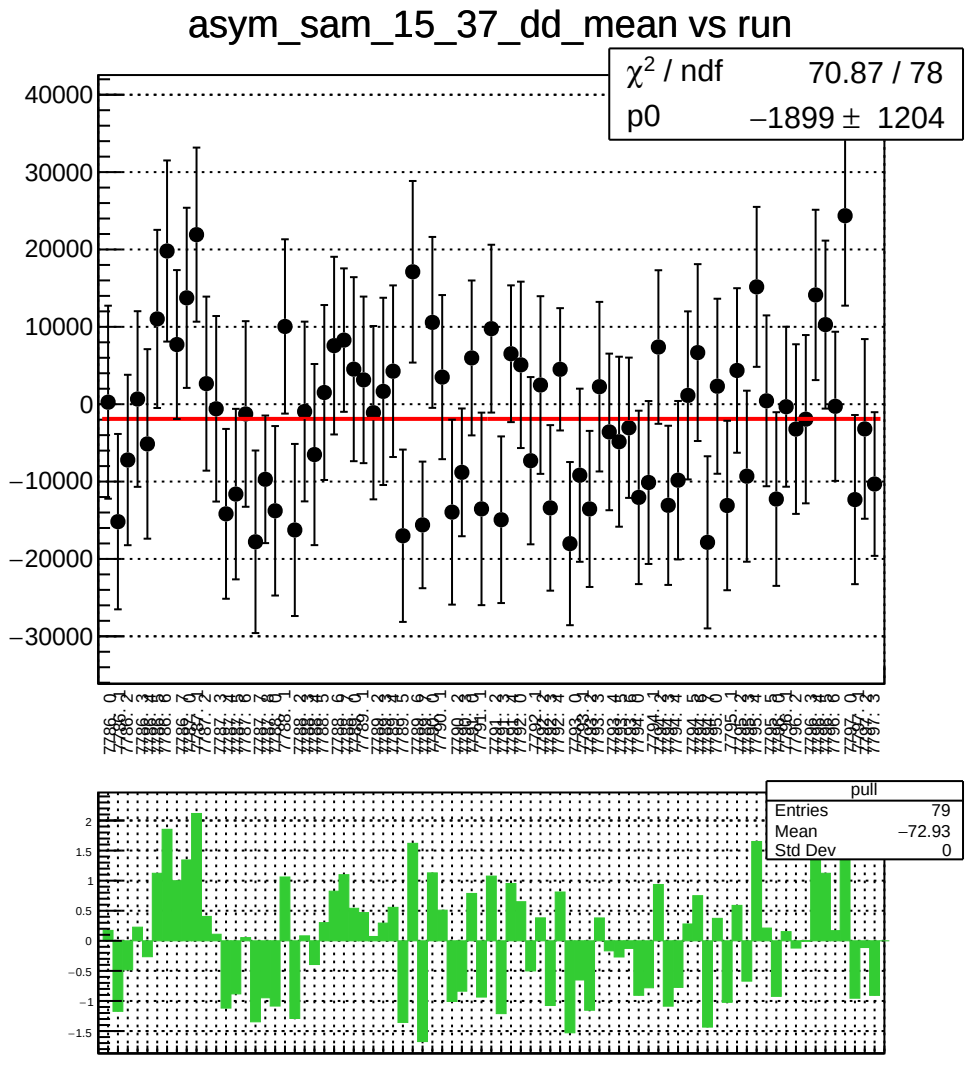

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 48.48 / 78
p0 −78.57 ± 116
pull
Entries 79
Mean −1058
Std Dev 0
pull1D
Entries 79
Mean 0.002732
Std Dev 0.7834

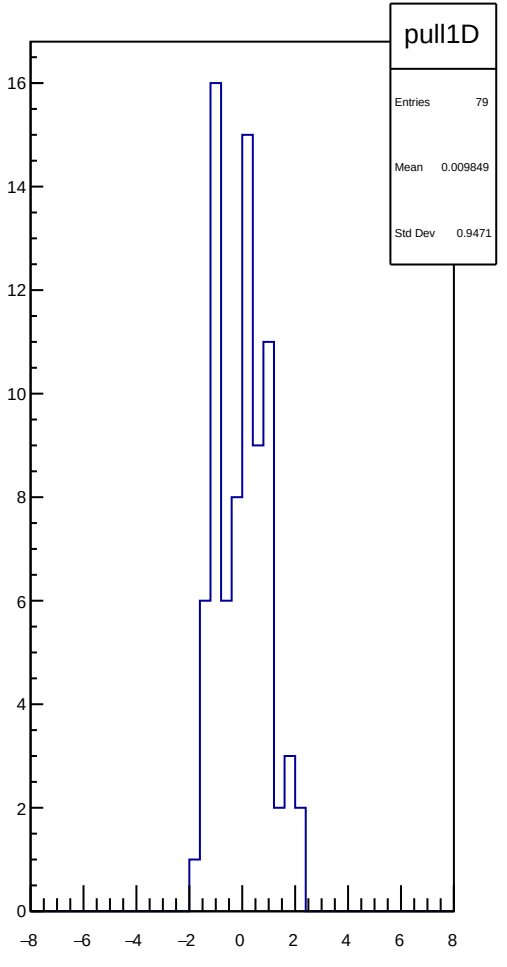

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.443e+04 / 78
p0 101.1 ± 0.08201
160
140
120
100
80

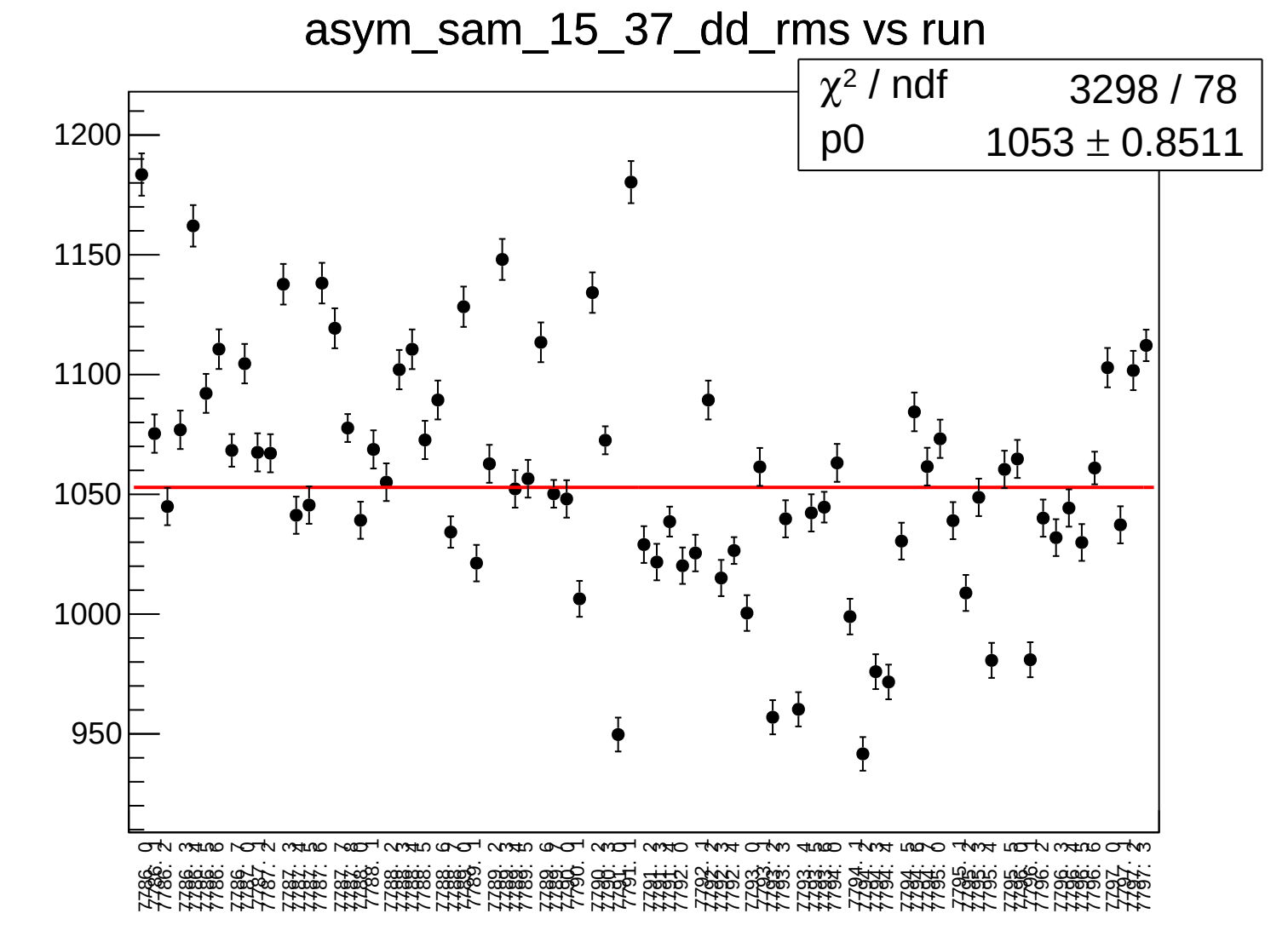

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ^2 / ndf 75.6 / 78
p0 1880 ± 1177
pull
Entries 79
Mean −30.34
Std Dev 32.13

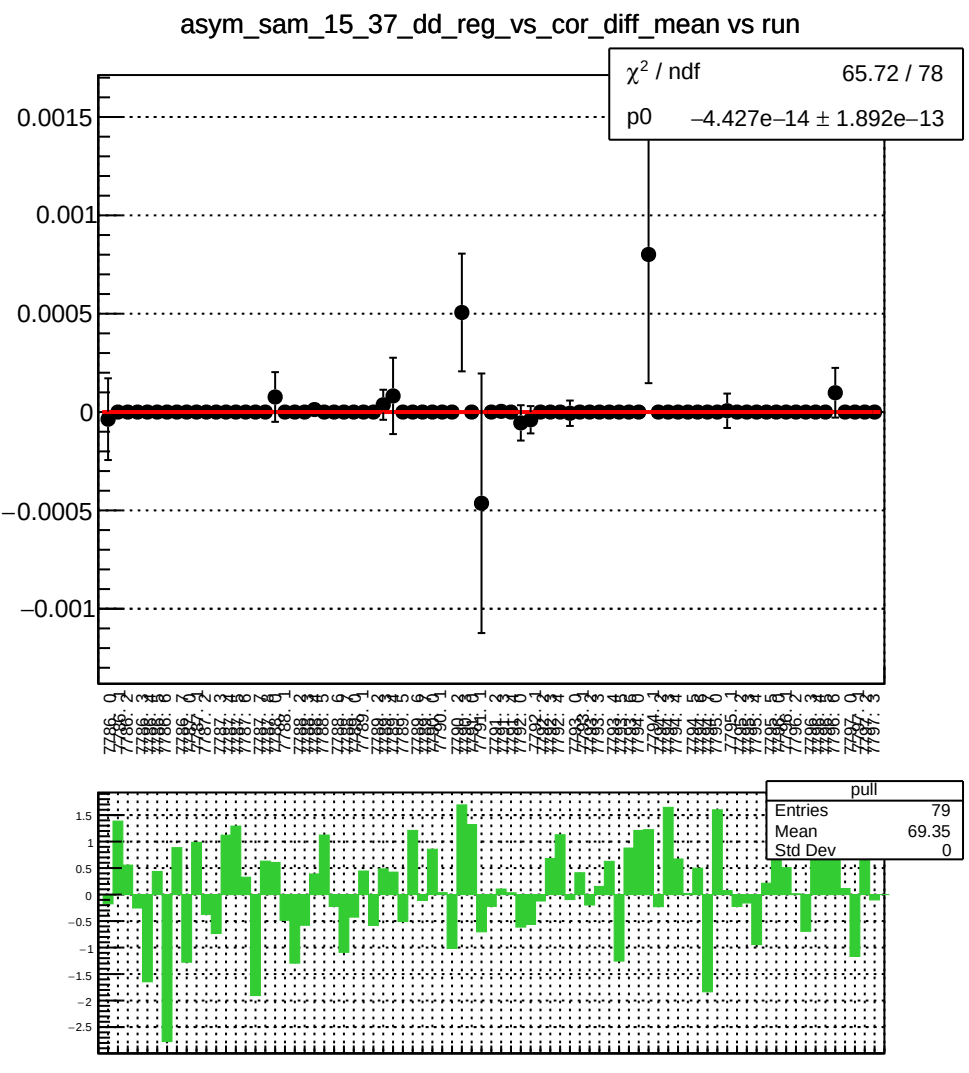

pull1D
Entries 79
Mean −0.01266
Std Dev 0.9781

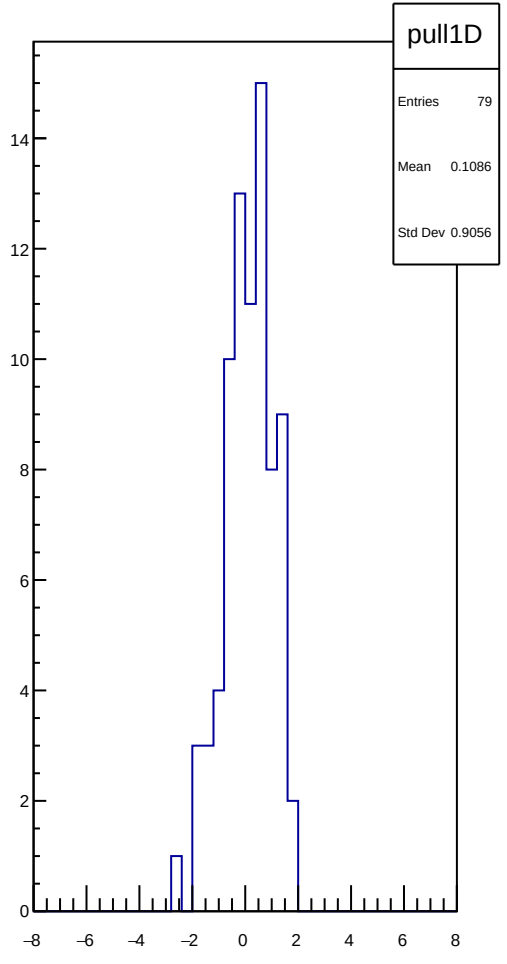

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2673 / 78
p0 1030 ± 0.8323
1150
1100
1050
1000
950

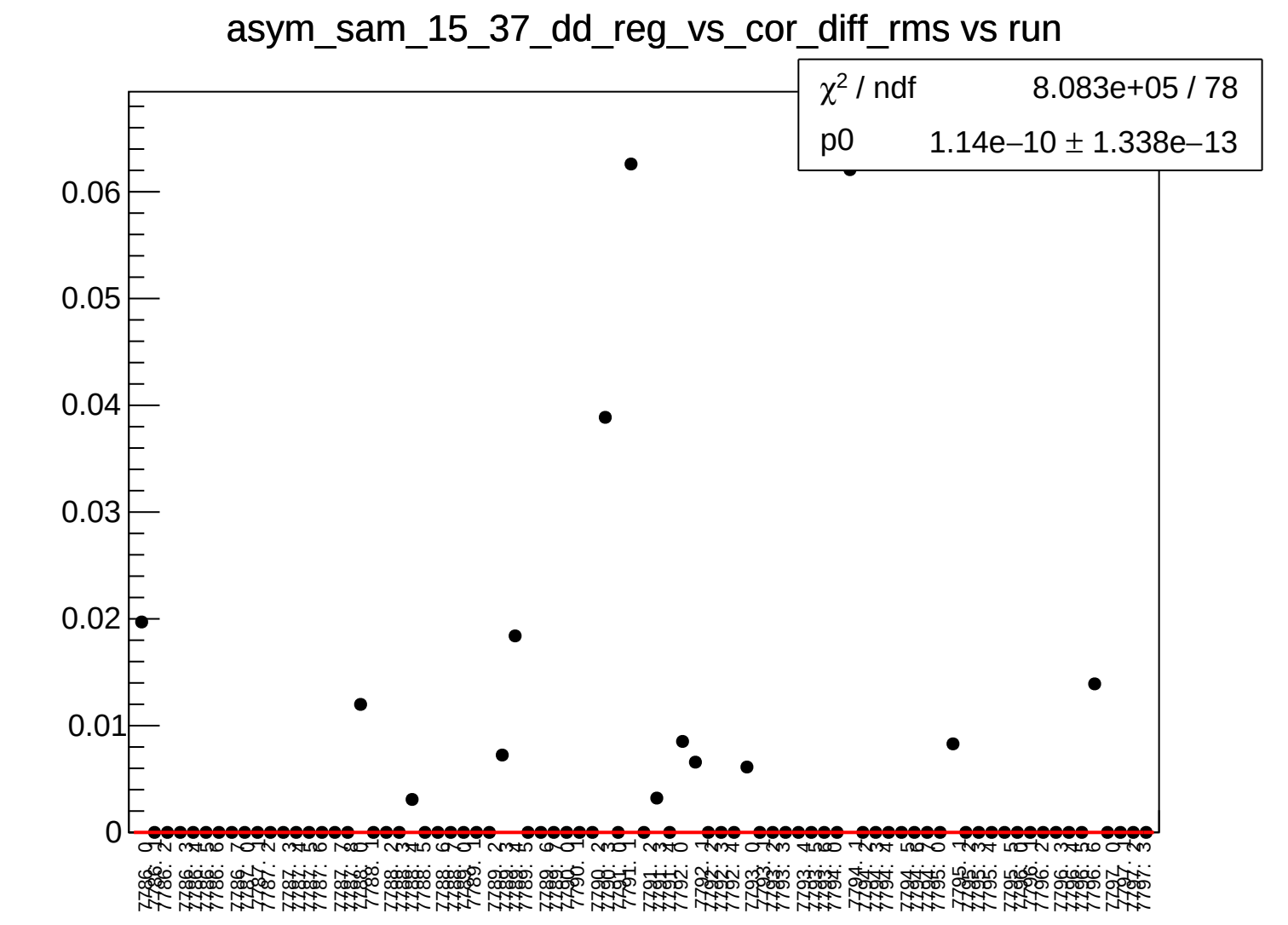

asym_sam_15_37_dd_mean vs run
χ² / ndf 70.87 / 78
p0 −1899 ± 1204
pull
Entries 79
Mean −72.93
Std Dev 0

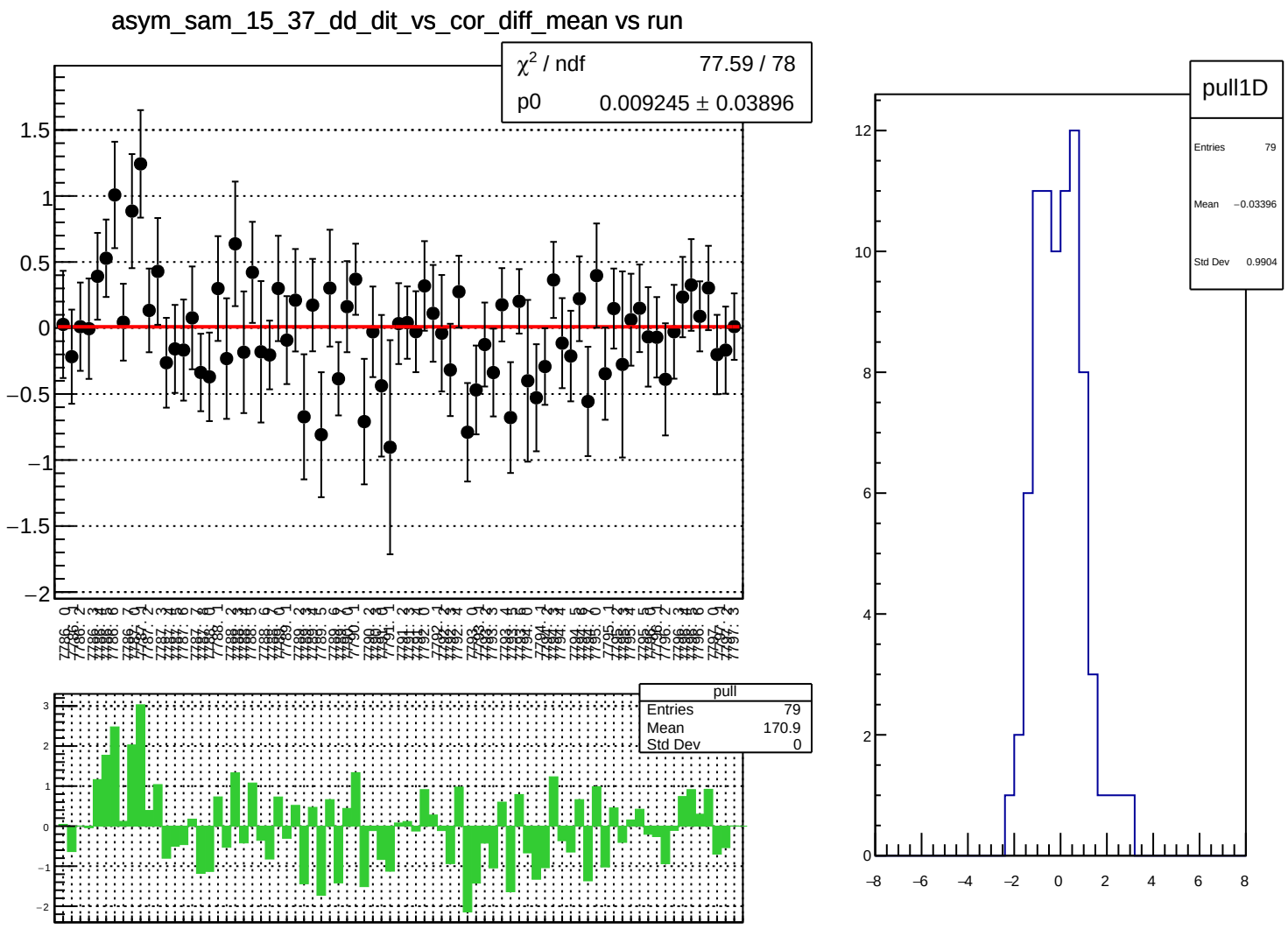

pull1D
Entries 79
Mean 0.009849
Std Dev 0.9471

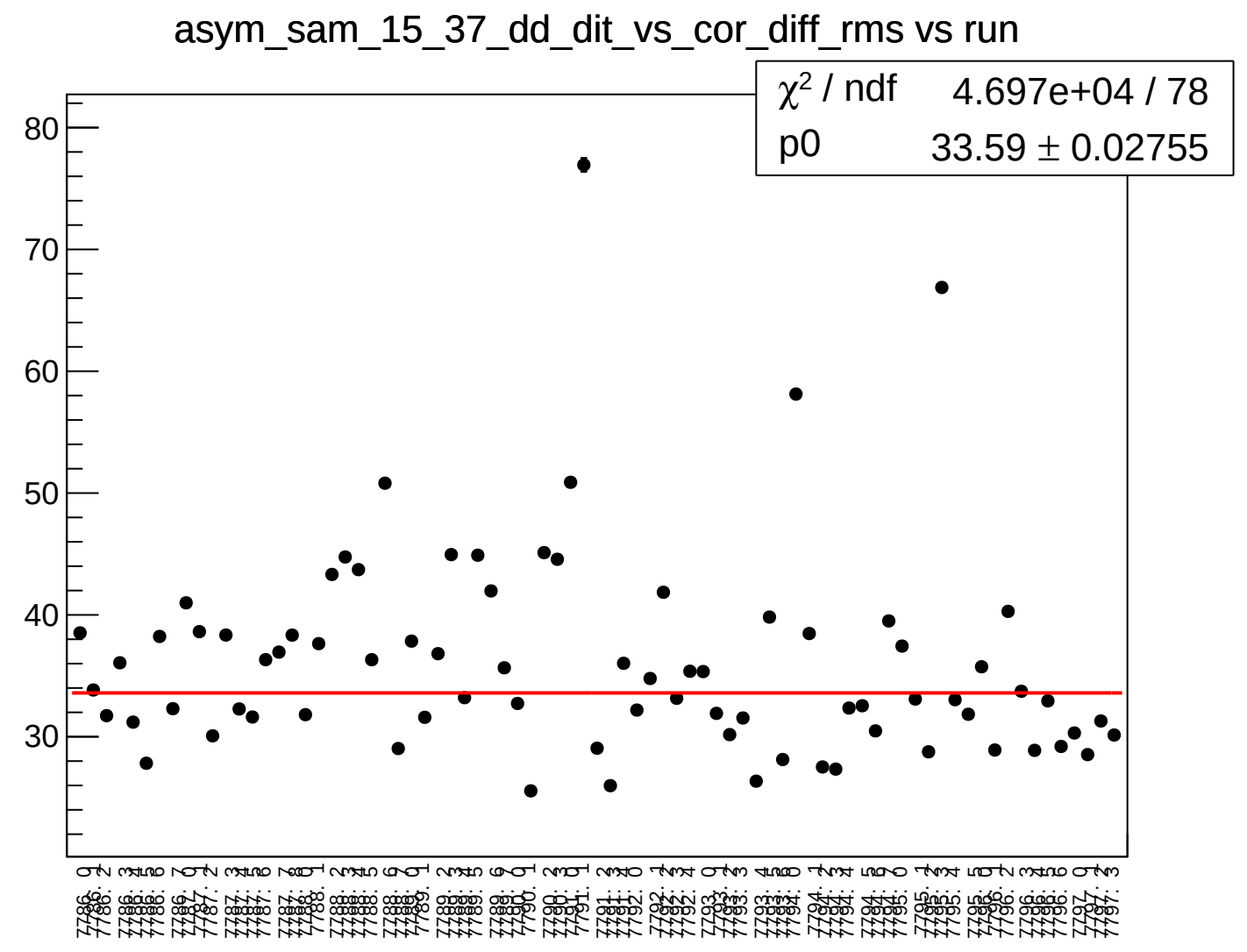

asym_sam_15_37_dd_rms vs run
χ² / ndf 3298 / 78
p0 1053 ± 0.8511
1200
1150
1100
1050
1000
950

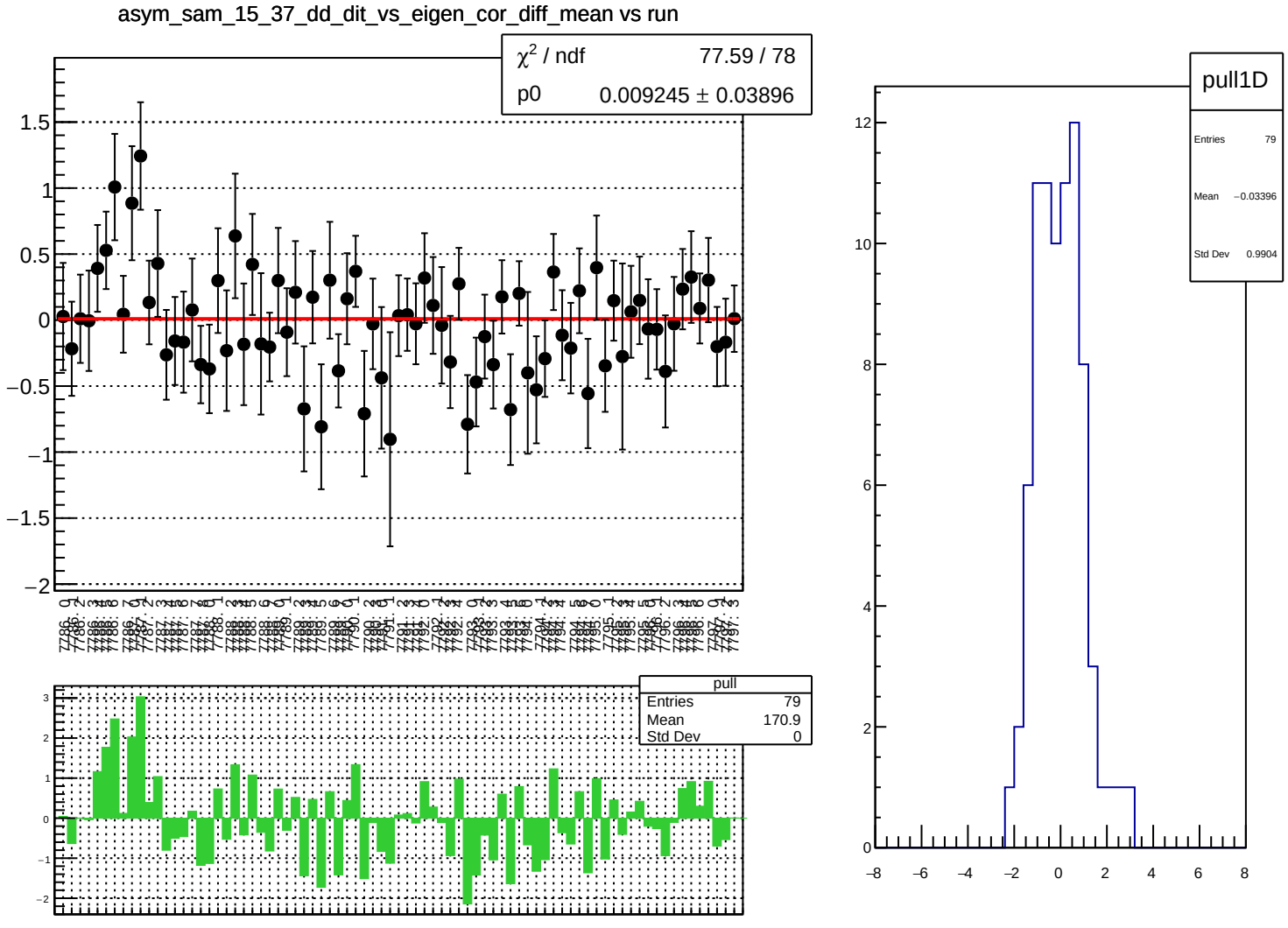

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 65.72 / 78
p0 −4.427e−14 ± 1.892e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 79
Mean 69.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

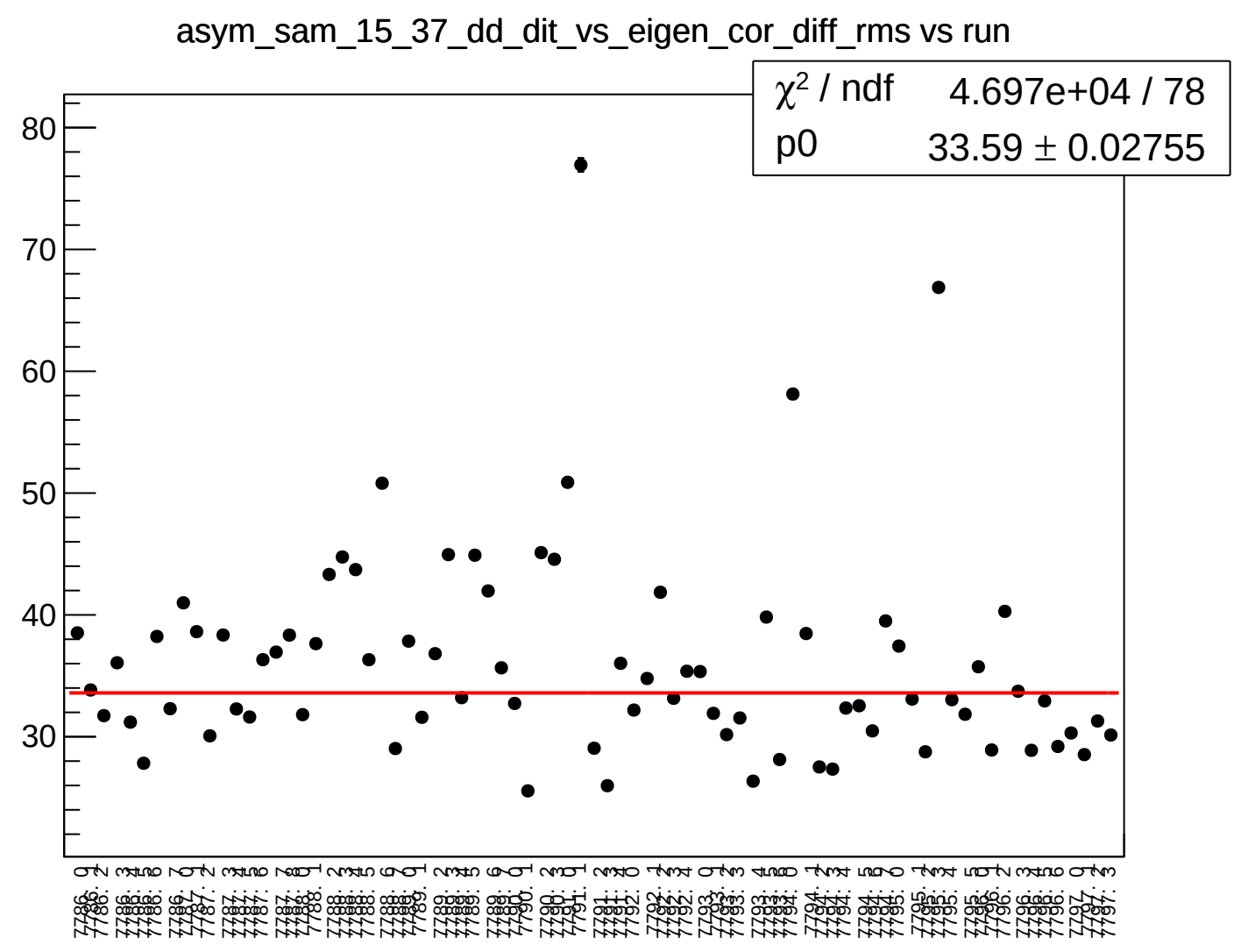

pull1D
Entries 79
Mean 0.1086
Std Dev 0.9056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

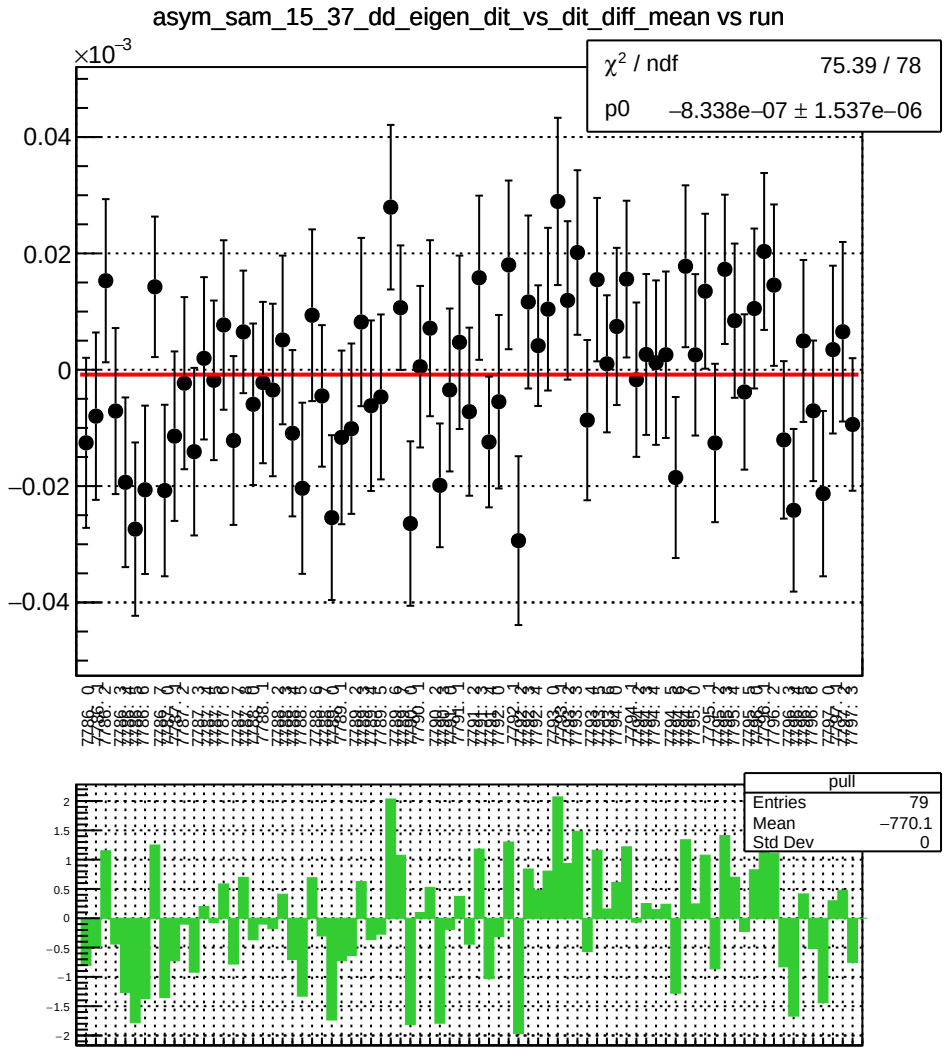

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.083e+05 / 78
p0 1.14e−10 ± 1.338e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

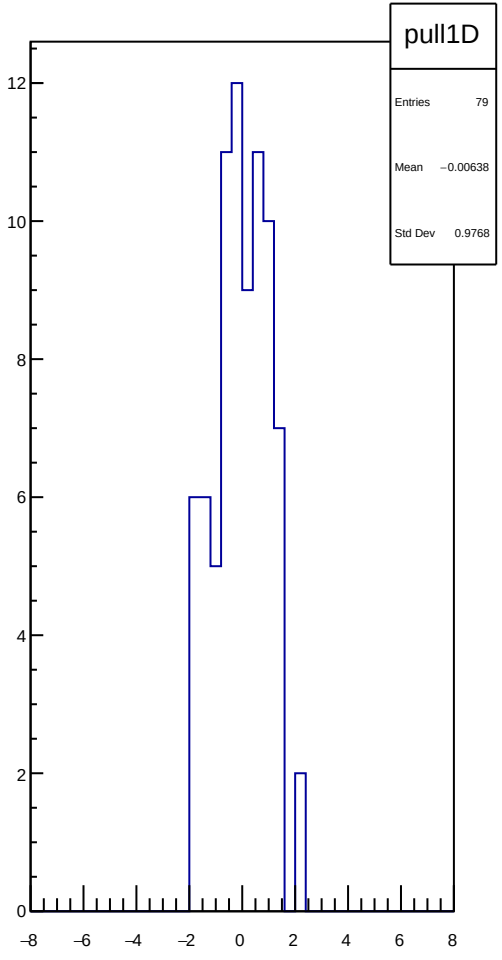

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.59 / 78
p0 0.009245 ± 0.03896
pull
Entries 79
Mean 170.9
Std Dev 0
pull1D
Entries 79
Mean −0.03396
Std Dev 0.9904

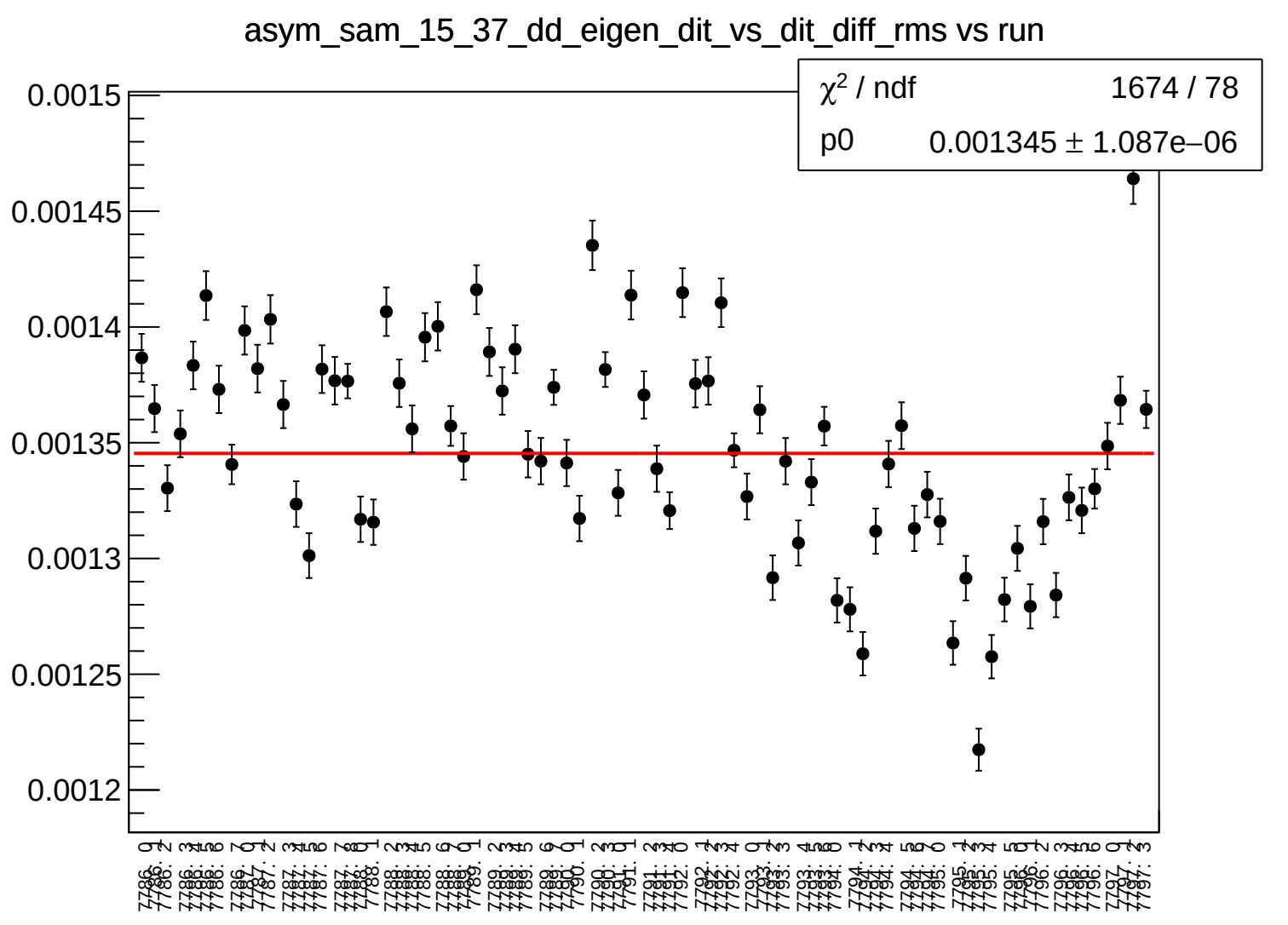

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.697e+04 / 78
p0 33.59 ± 0.02755
80
70
60
50
40
30

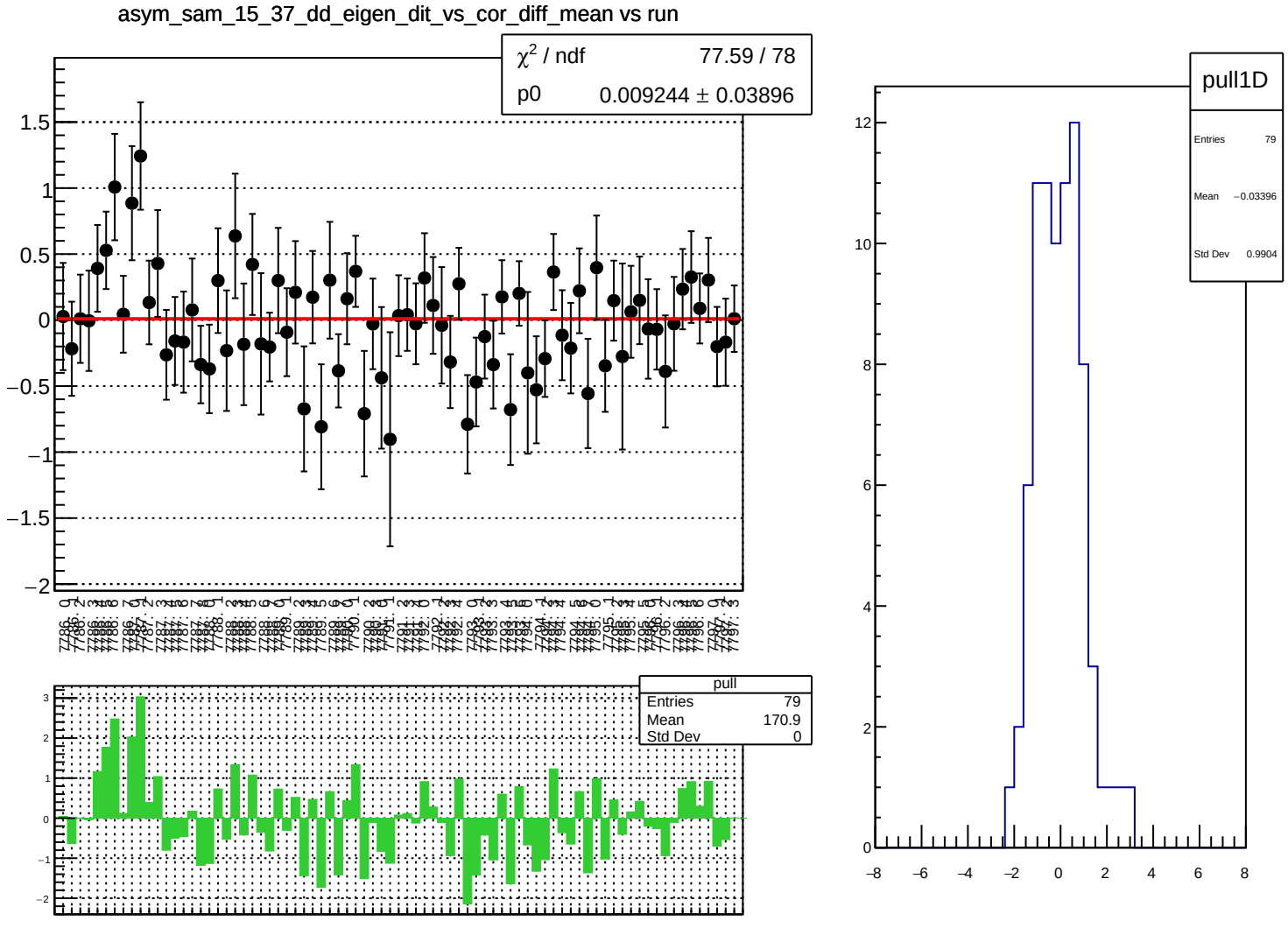

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.59 / 78
p0 0.009245 ± 0.03896
pull
Entries 79
Mean 170.9
Std Dev 0
pull1D
Entries 79
Mean −0.03396
Std Dev 0.9904

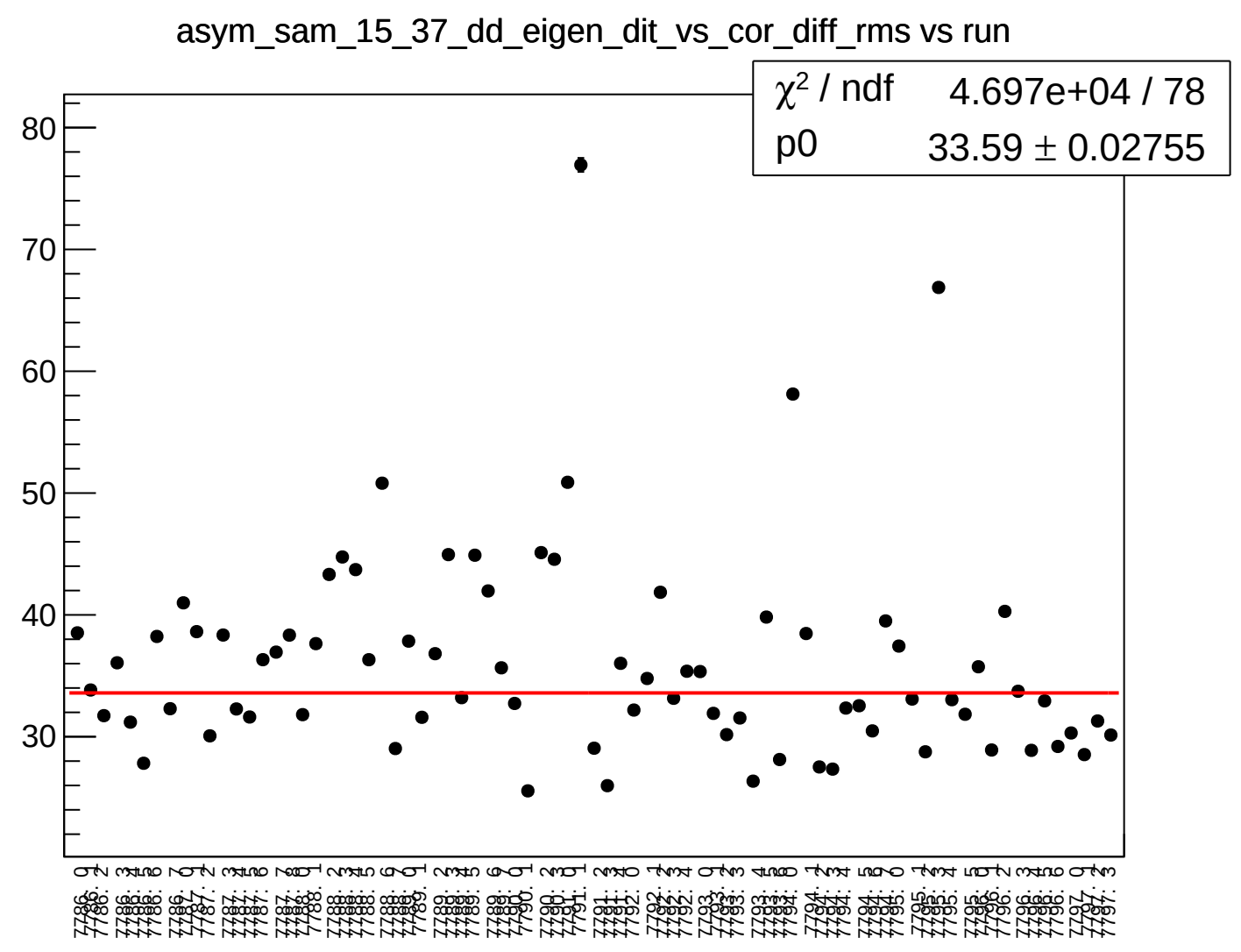

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.697e+04 / 78
p0 33.59 ± 0.02755
80
70
60
50
40
30

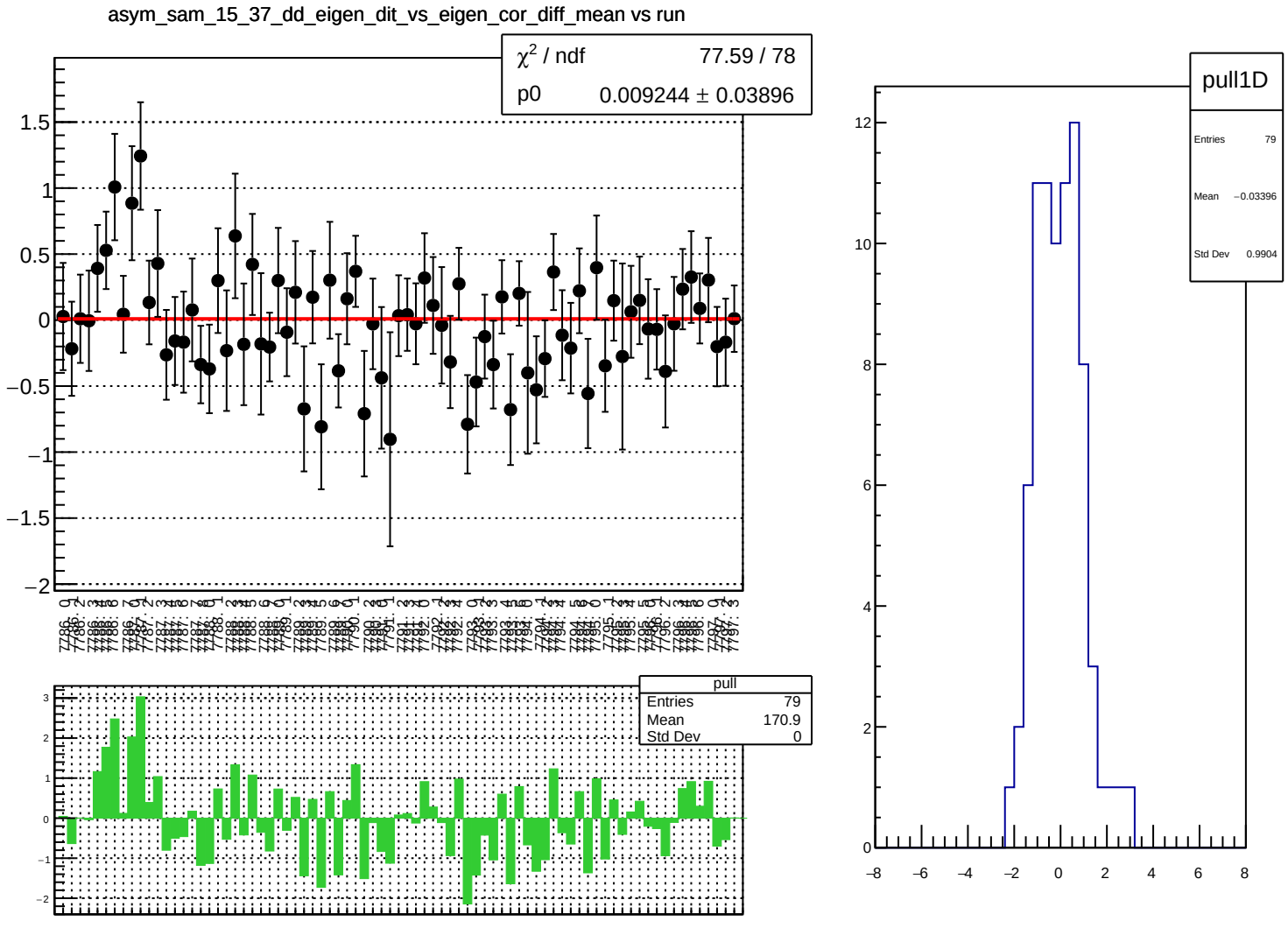

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 75.39 / 78
p0 −8.338e−07 ± 1.537e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 79
Mean −770.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

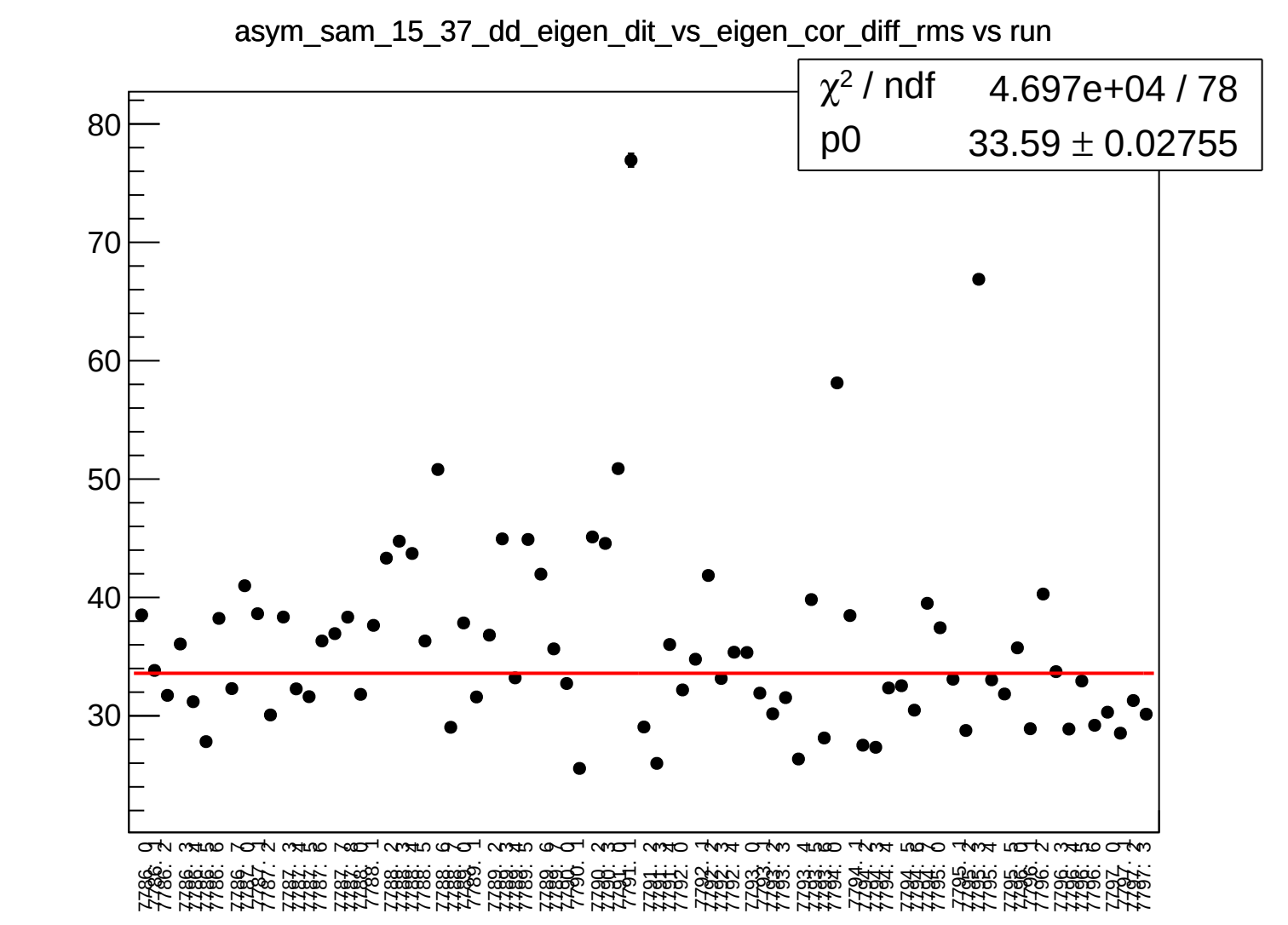

pull1D
Entries 79
Mean −0.00638
Std Dev 0.9768
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

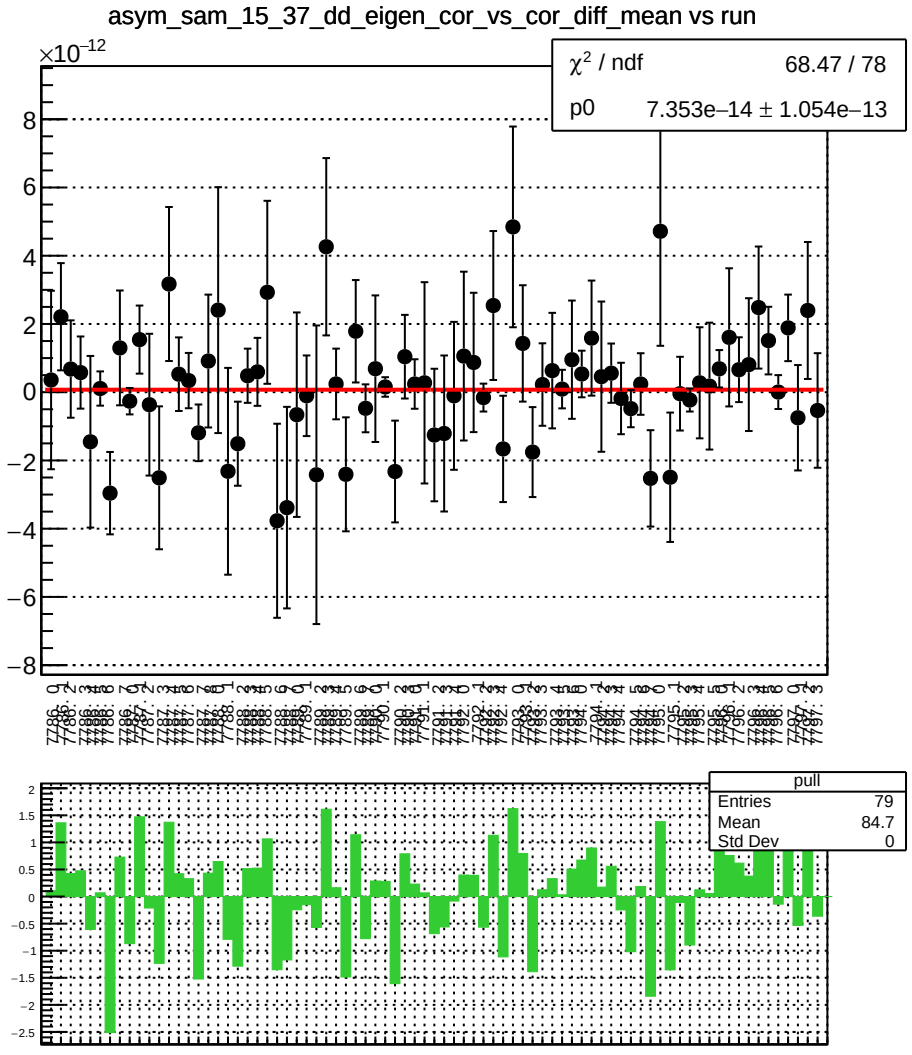

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1674 / 78
p0 0.001345 ± 1.087e−06
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012

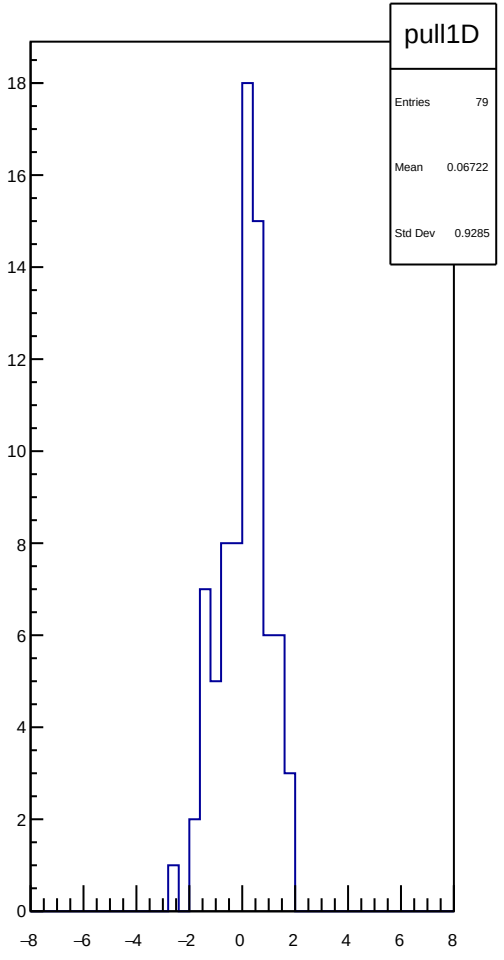

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.59 / 78
p0 0.009244 ± 0.03896
pull
Entries 79
Mean 170.9
Std Dev 0
pull1D
Entries 79
Mean −0.03396
Std Dev 0.9904

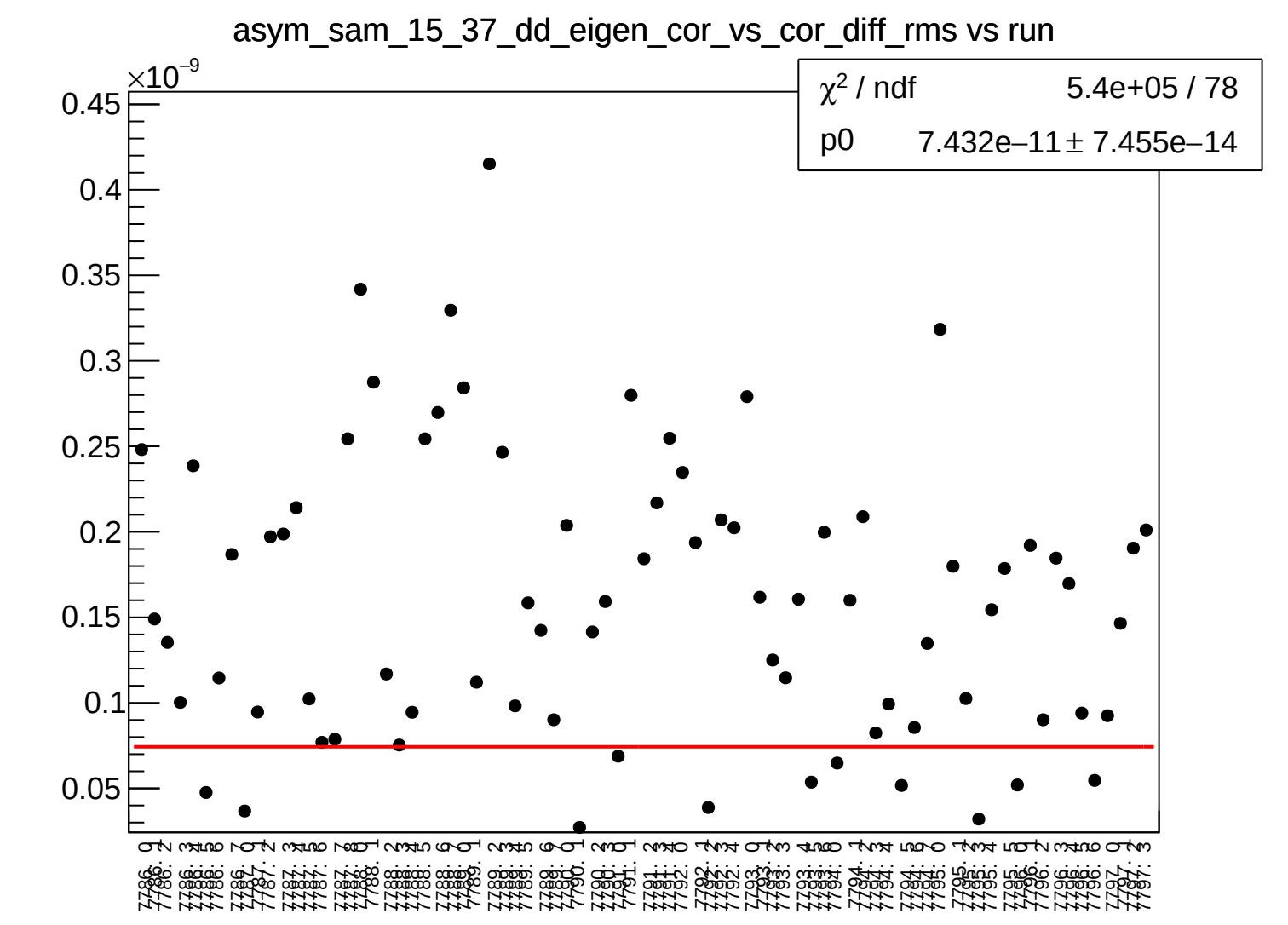

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.697e+04 / 78
p0 33.59 ± 0.02755
80
70
60
50
40
30

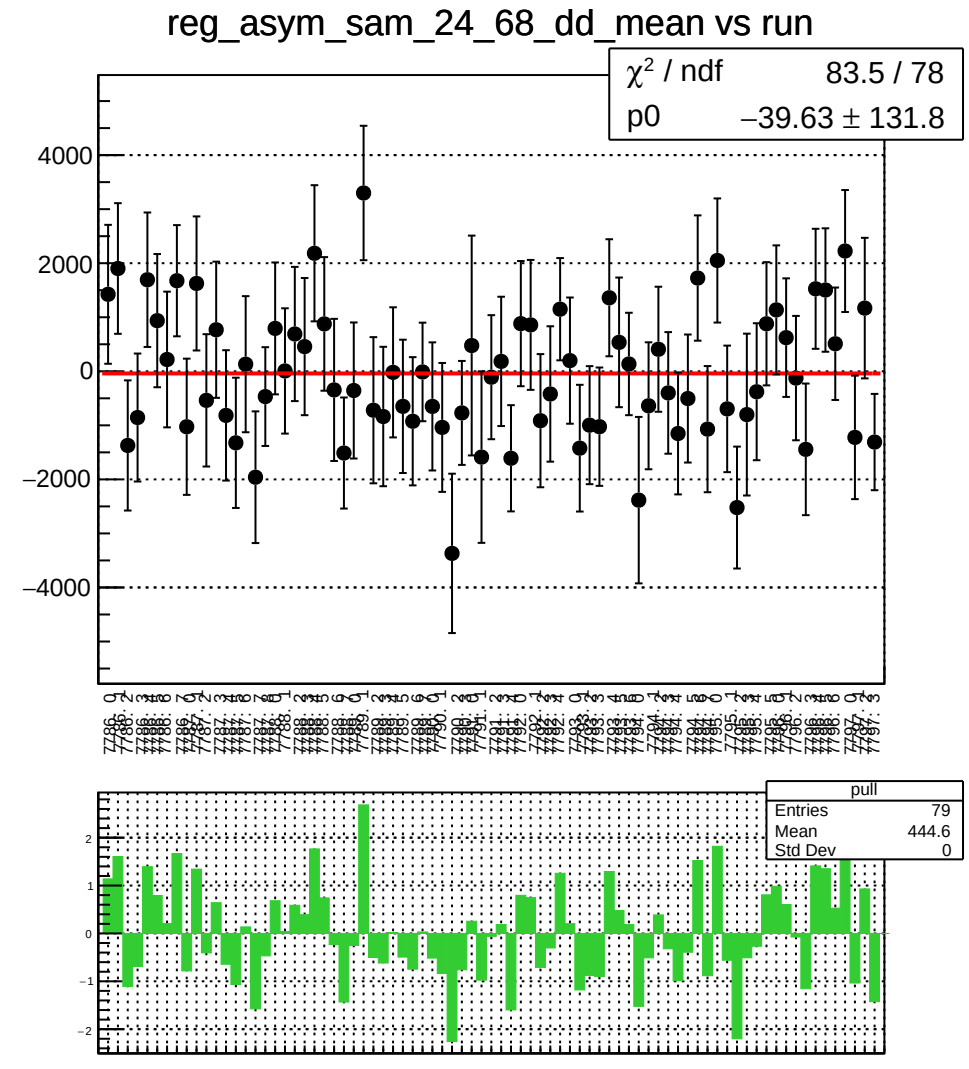

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.59 / 78
p0 0.009244 ± 0.03896
pull
Entries 79
Mean 170.9
Std Dev 0
pull1D
Entries 79
Mean −0.03396
Std Dev 0.9904

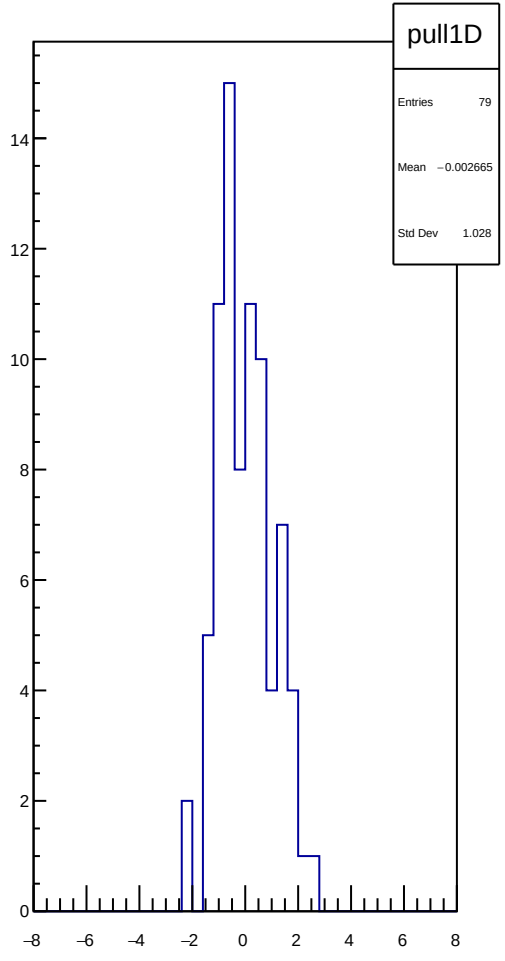

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.697e+04 / 78
p0 33.59 ± 0.02755
80
70
60
50
40
30

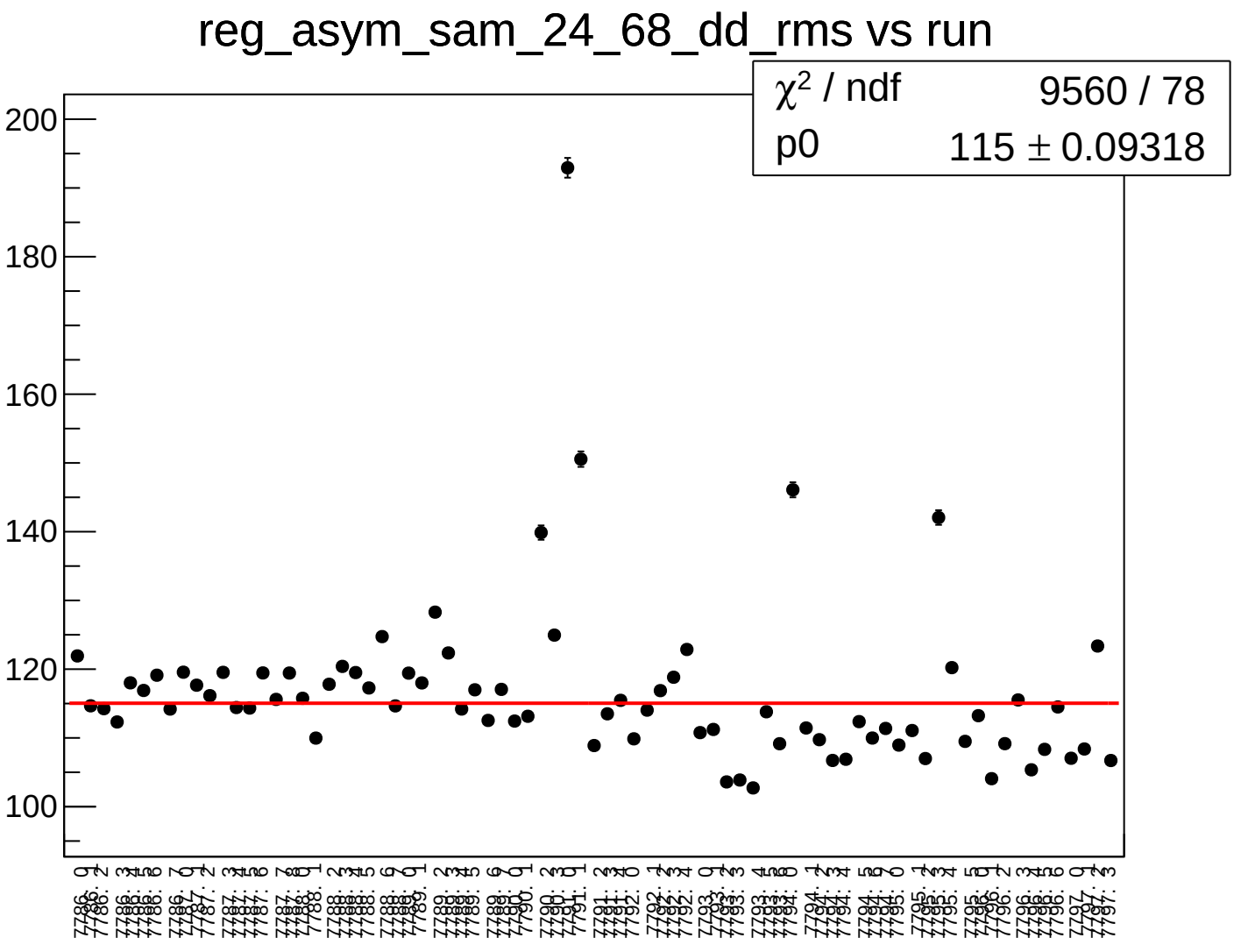

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.47 / 78
p0 7.353e−14 ± 1.054e−13
pull
Entries 79
Mean 84.7
Std Dev 0

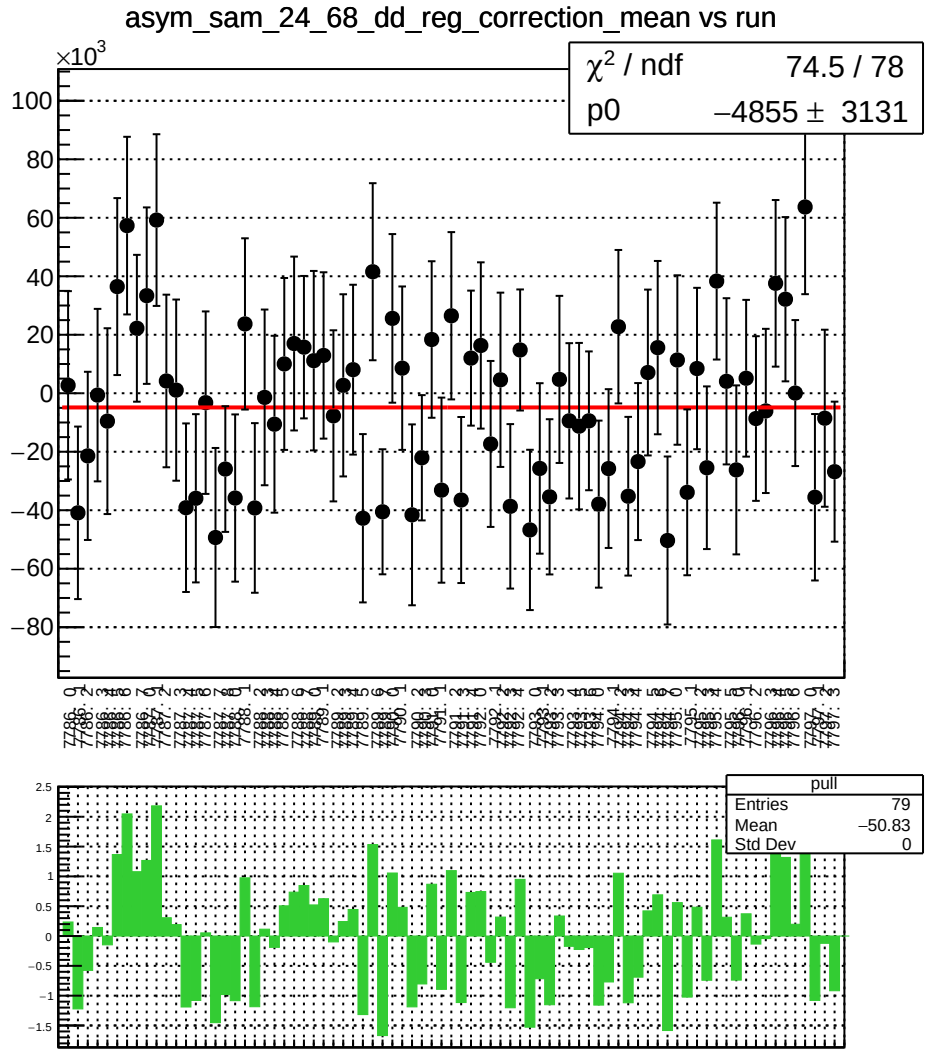

pull1D
Entries 79
Mean 0.06722
Std Dev 0.9285

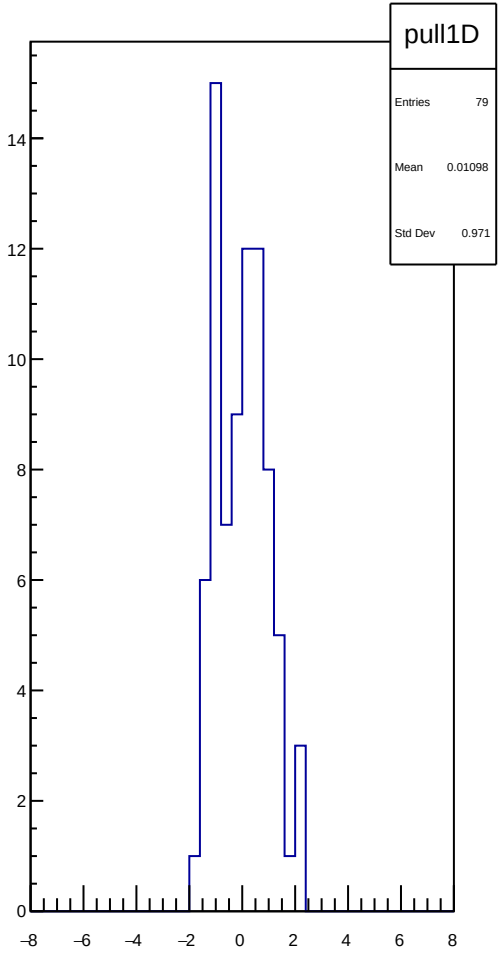

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.4e+05 / 78
p0 7.432e−11 ± 7.455e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

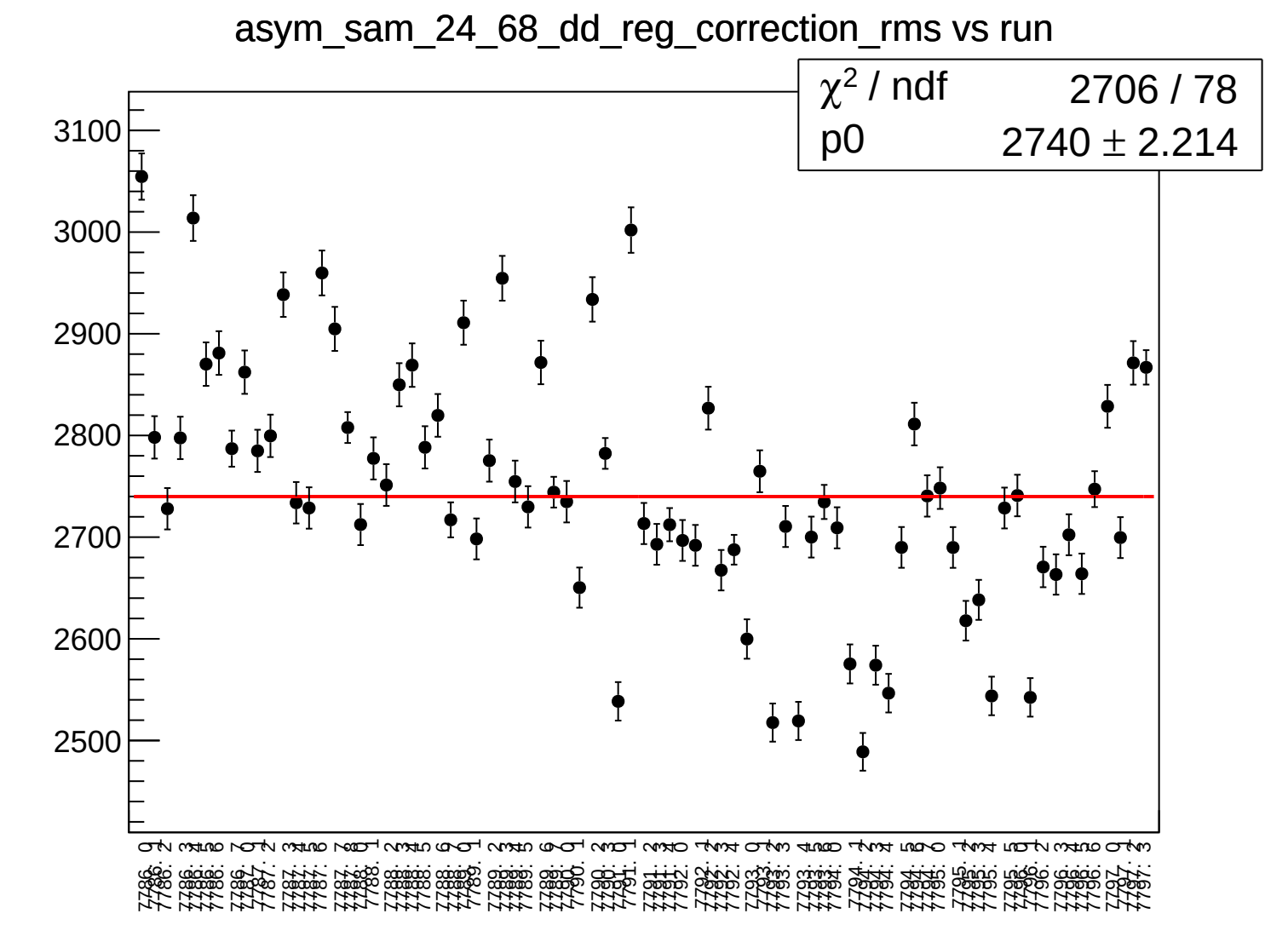

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.5 / 78
p0 −39.63 ± 131.8
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 444.6
Std Dev 0
2
1
0
−1
−2

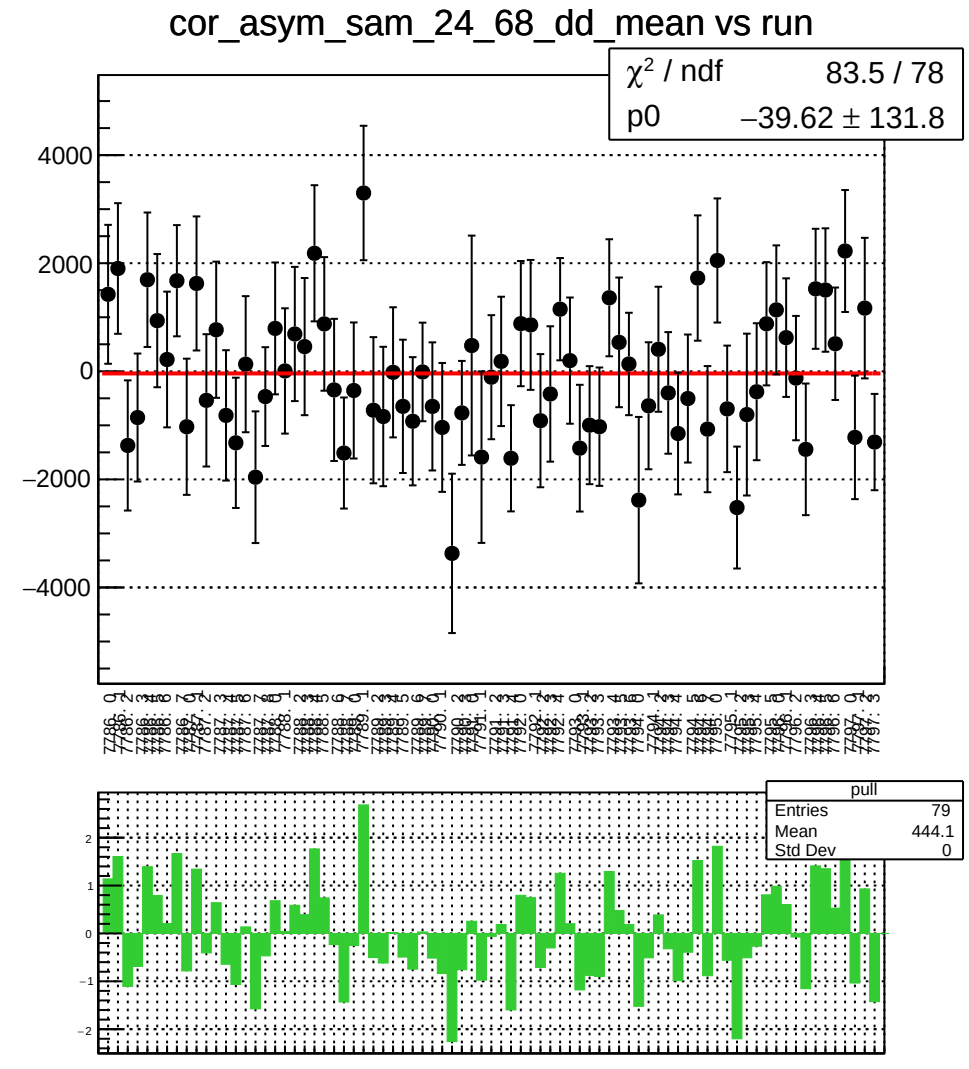

pull1D
Entries 79
Mean −0.002665
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

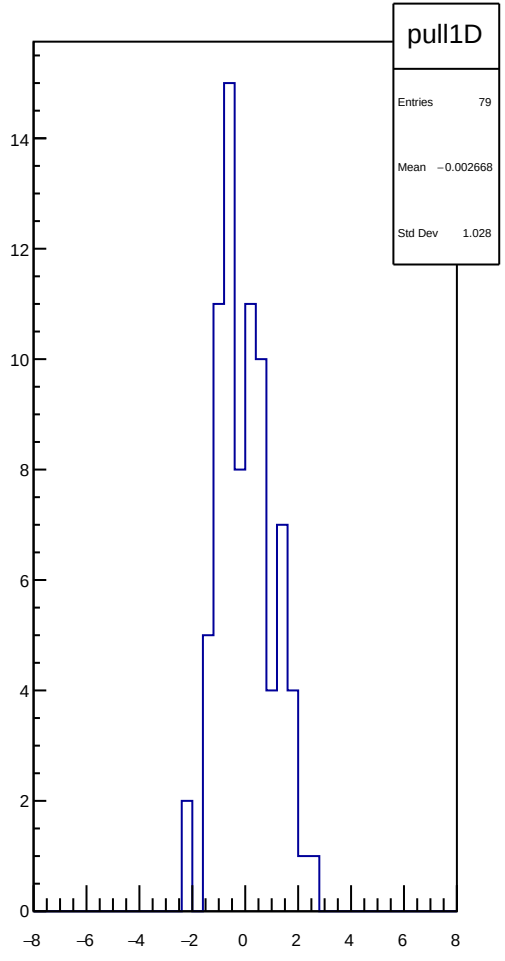

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 9560 / 78
p0 115 ± 0.09318
200
180
160
140
120
100

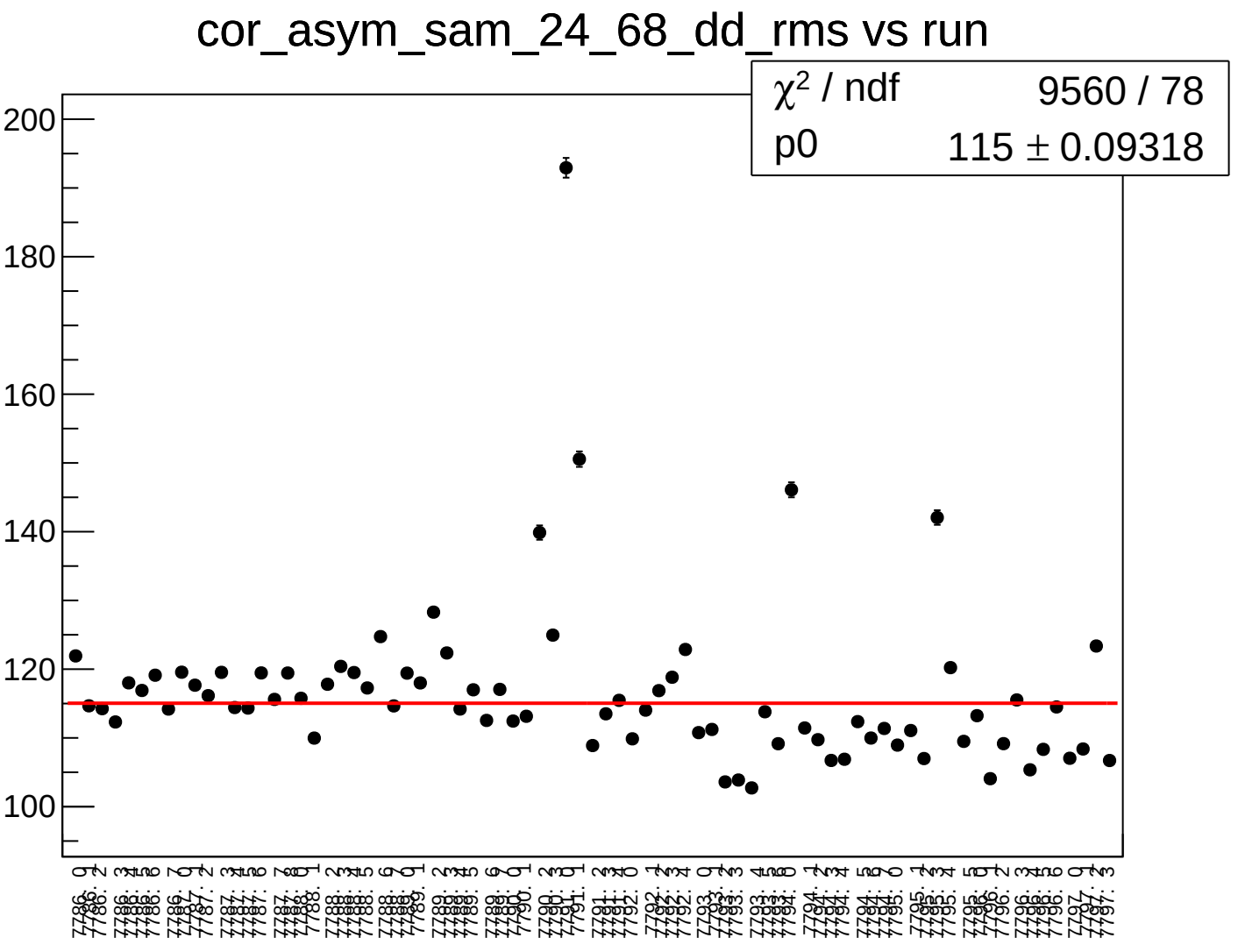

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 74.5 / 78
p0 −4855 ± 3131
pull
Entries 79
Mean −50.83
Std Dev 0

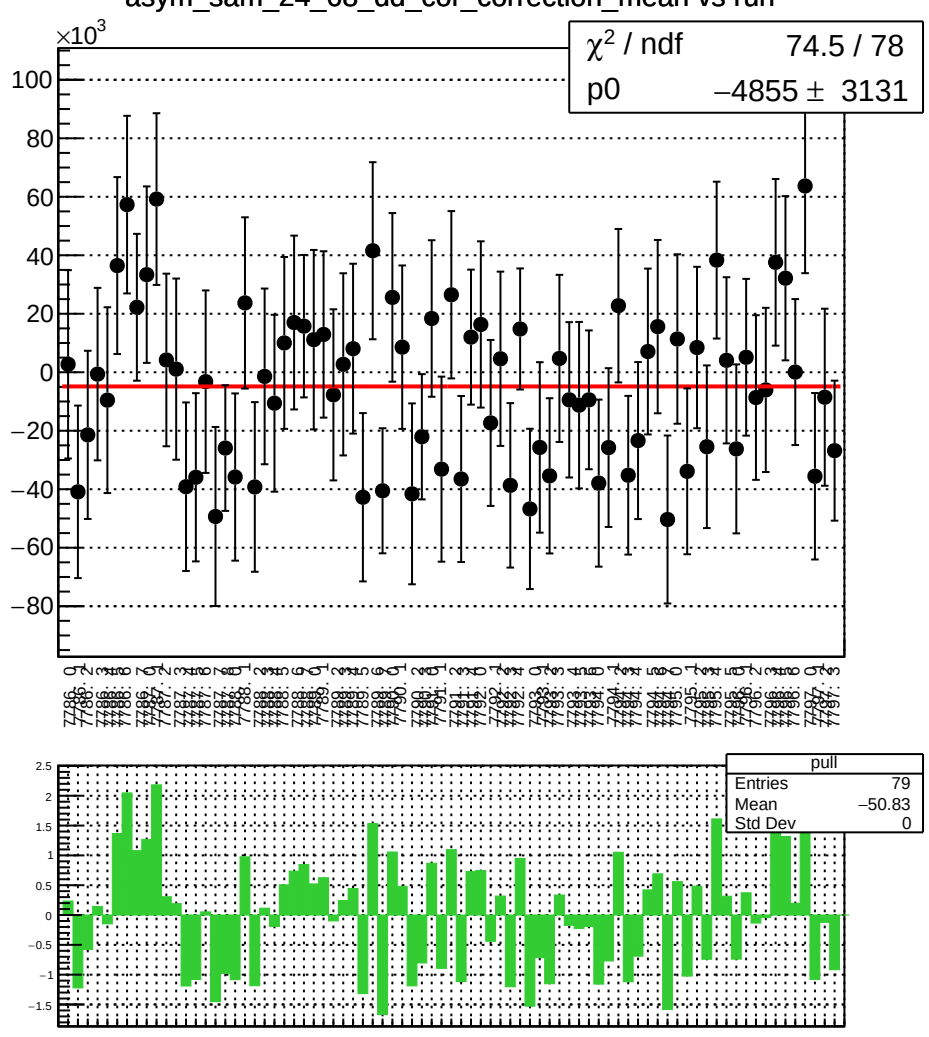

pull1D
Entries 79
Mean 0.01098
Std Dev 0.971

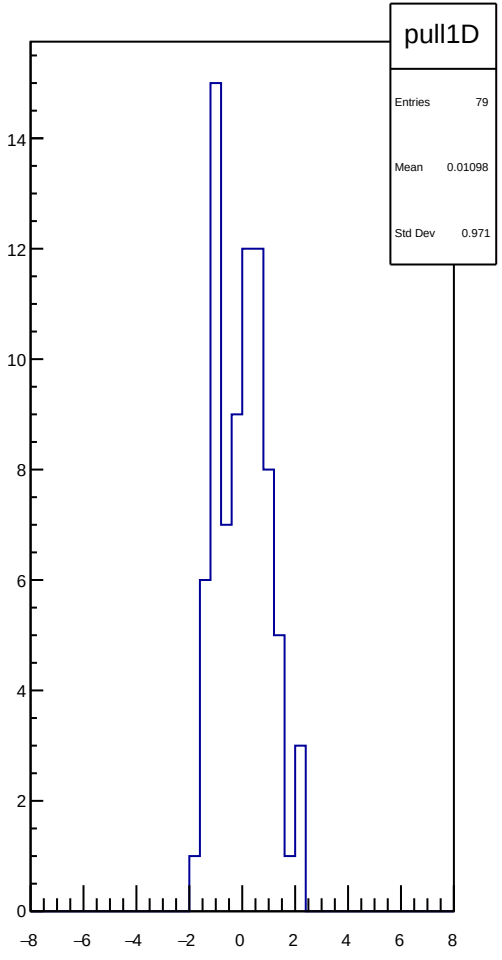

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2706 / 78
p0 2740 ± 2.214
3100
3000
2900
2800
2700
2600
2500

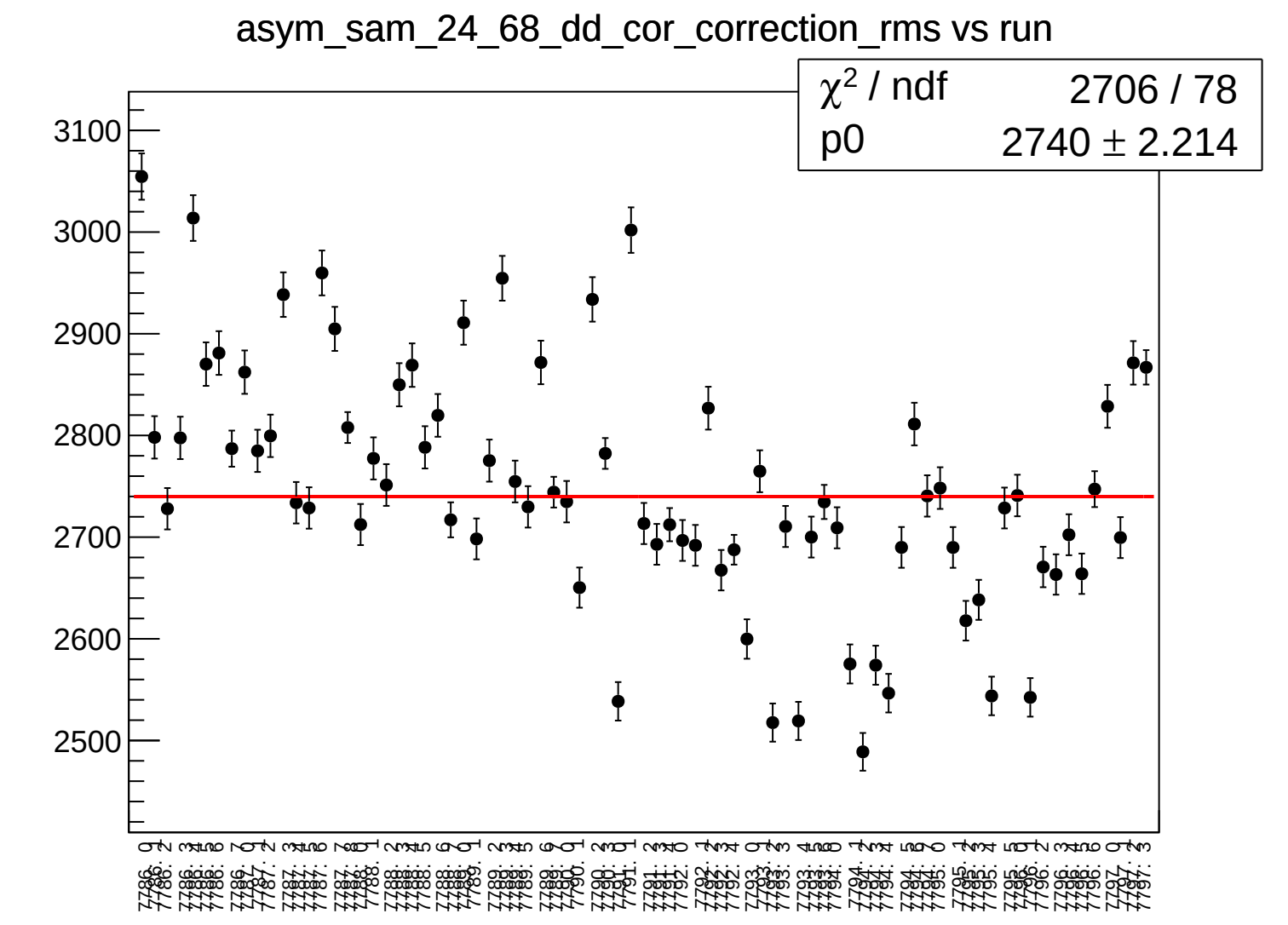

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.5 / 78
p0 −39.62 ± 131.8
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 444.1
Std Dev 0
2
1
0
−1
−2

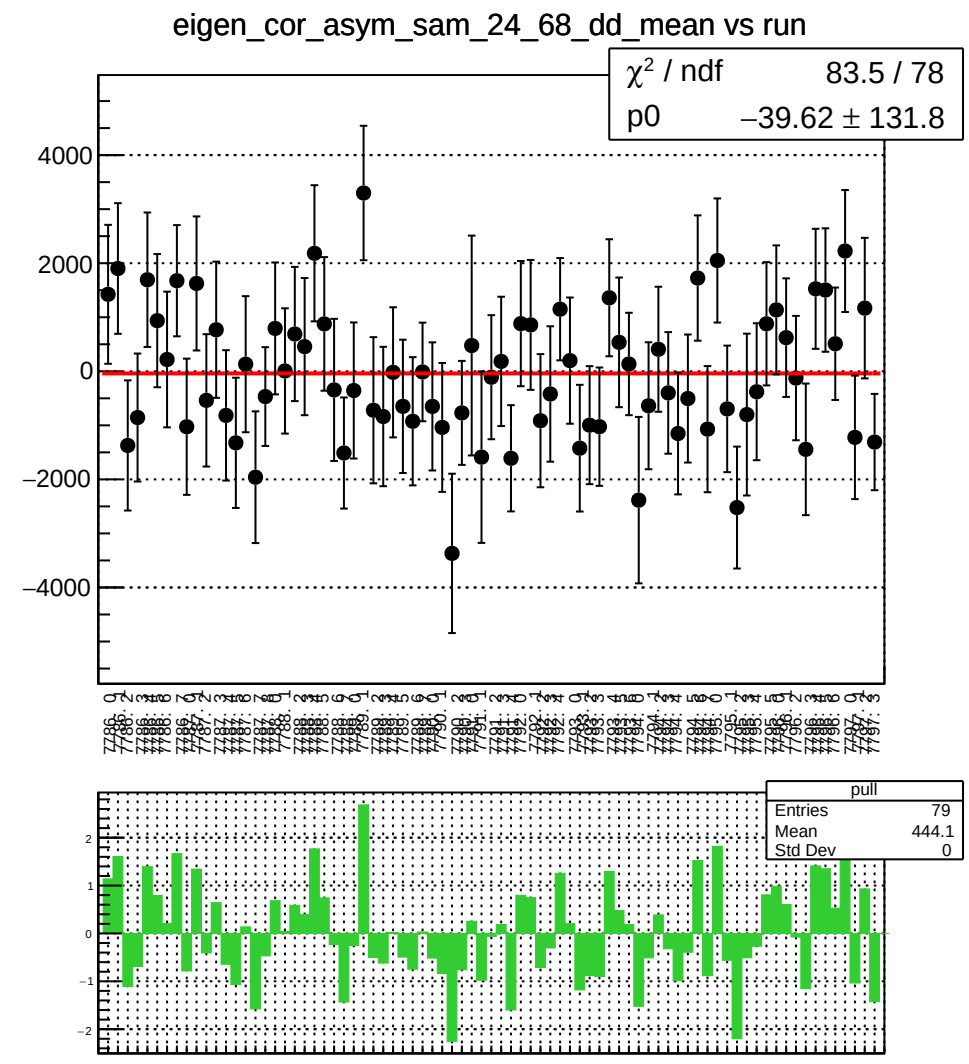

pull1D
Entries 79
Mean −0.002668
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

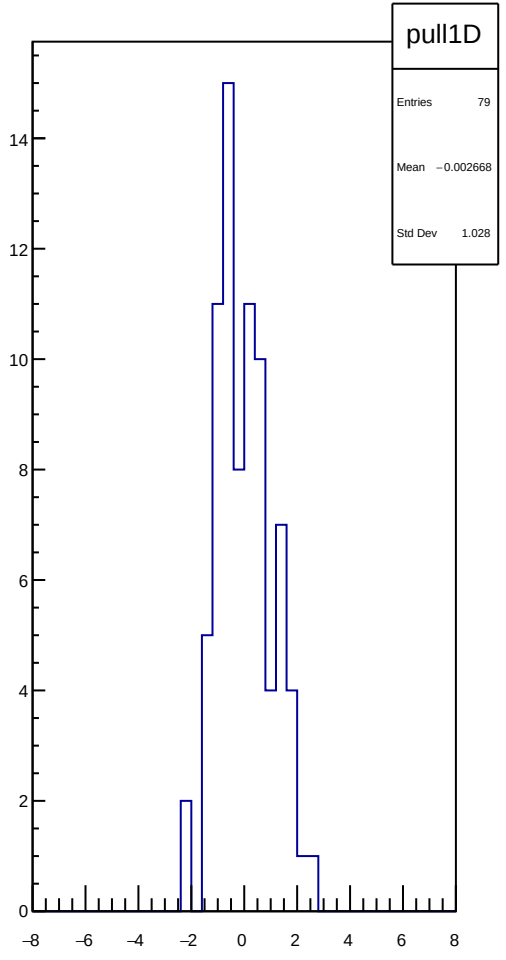

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 9560 / 78
p0 115 ± 0.09318
200
180
160
140
120
100

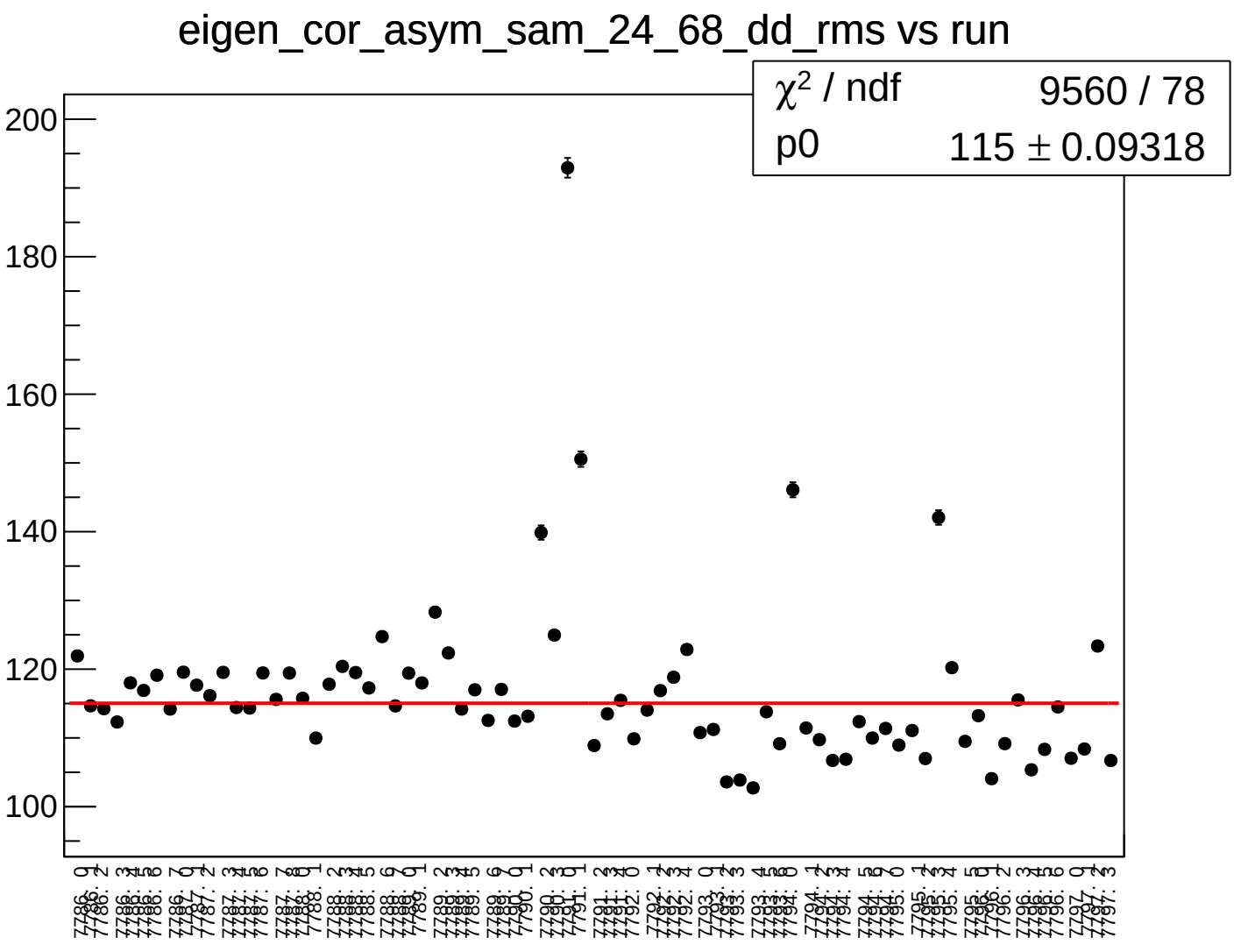

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 74.5 / 78
p0 −4855 ± 3131
pull
Entries 79
Mean −50.83
Std Dev 0


pull1D
Entries 79
Mean 0.01098
Std Dev 0.971

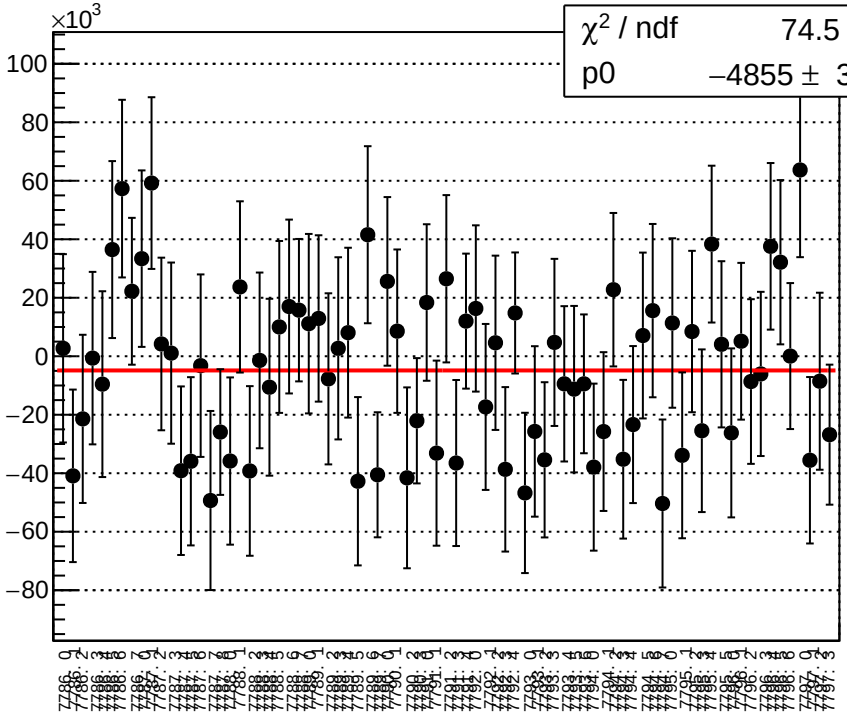

asym_sam_24_68_dd_cor_correction_rms vs run
χ^2 / ndf 2706 / 78
p0 2740 ± 2.214
3100
3000
2900
2800
2700
2600
2500

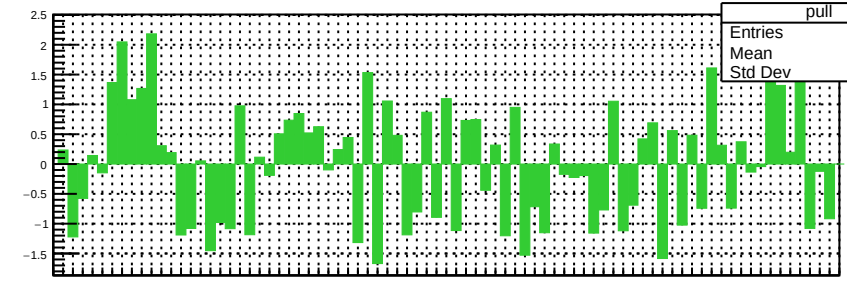

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.5 / 78
p0 −39.62 ± 131.8
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 444.1
Std Dev 0
2
1
0
−1
−2

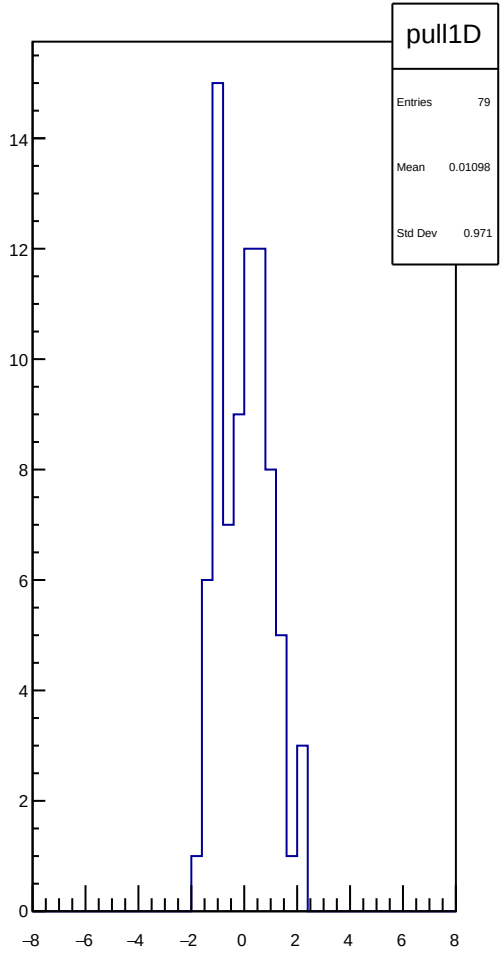

pull1D
Entries 79
Mean −0.002668
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

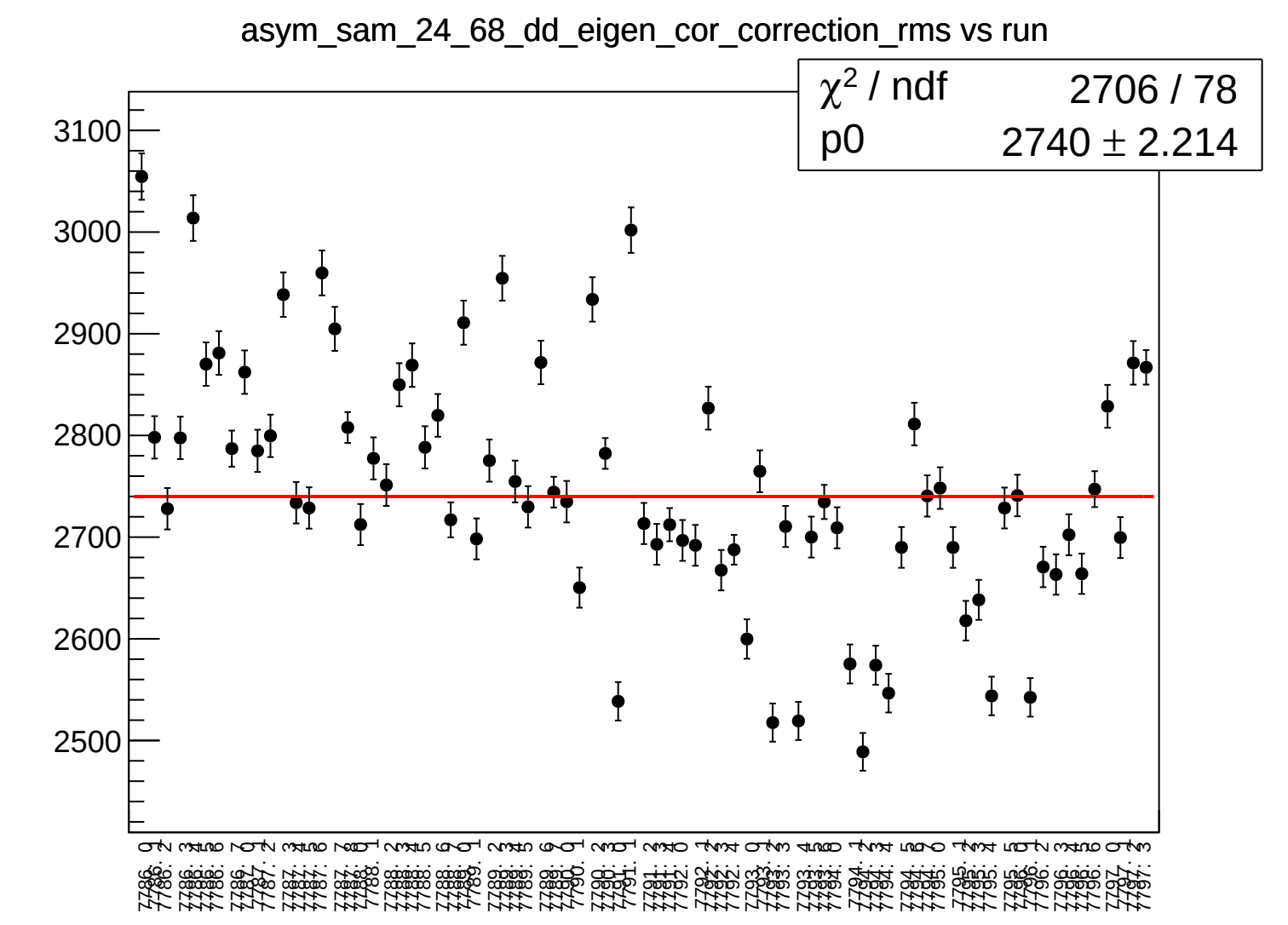

eigen_cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 9560 / 78
p0 115 ± 0.09318
200
180
160
140
120
100

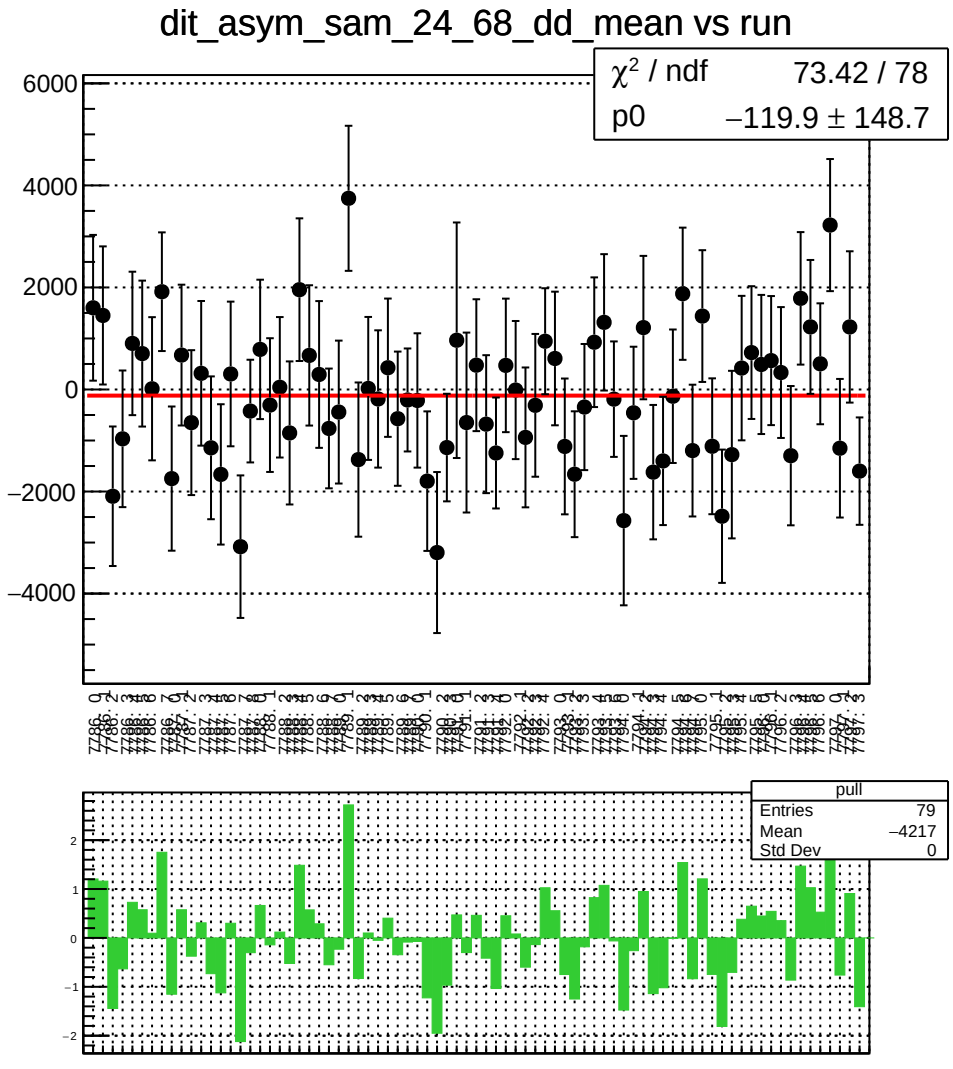
asym_sam_24_68_dd_eigen_cor_correction_mean vs run

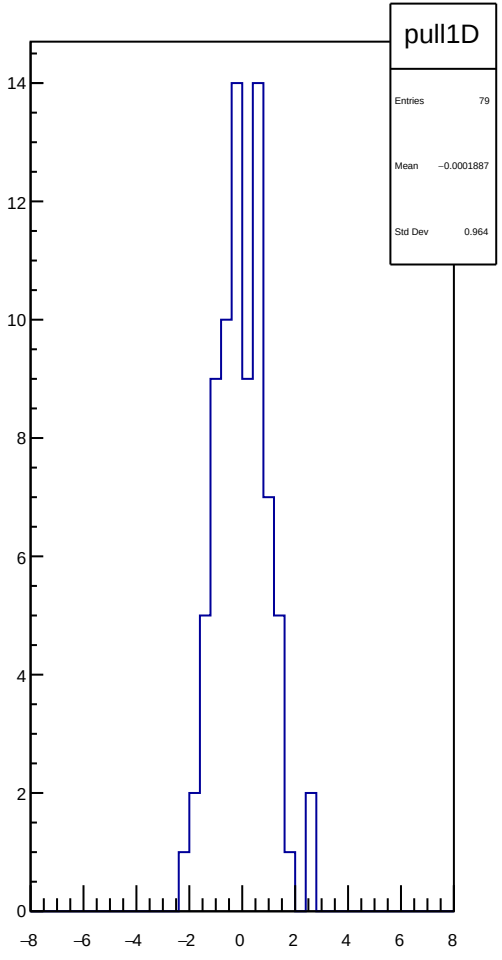


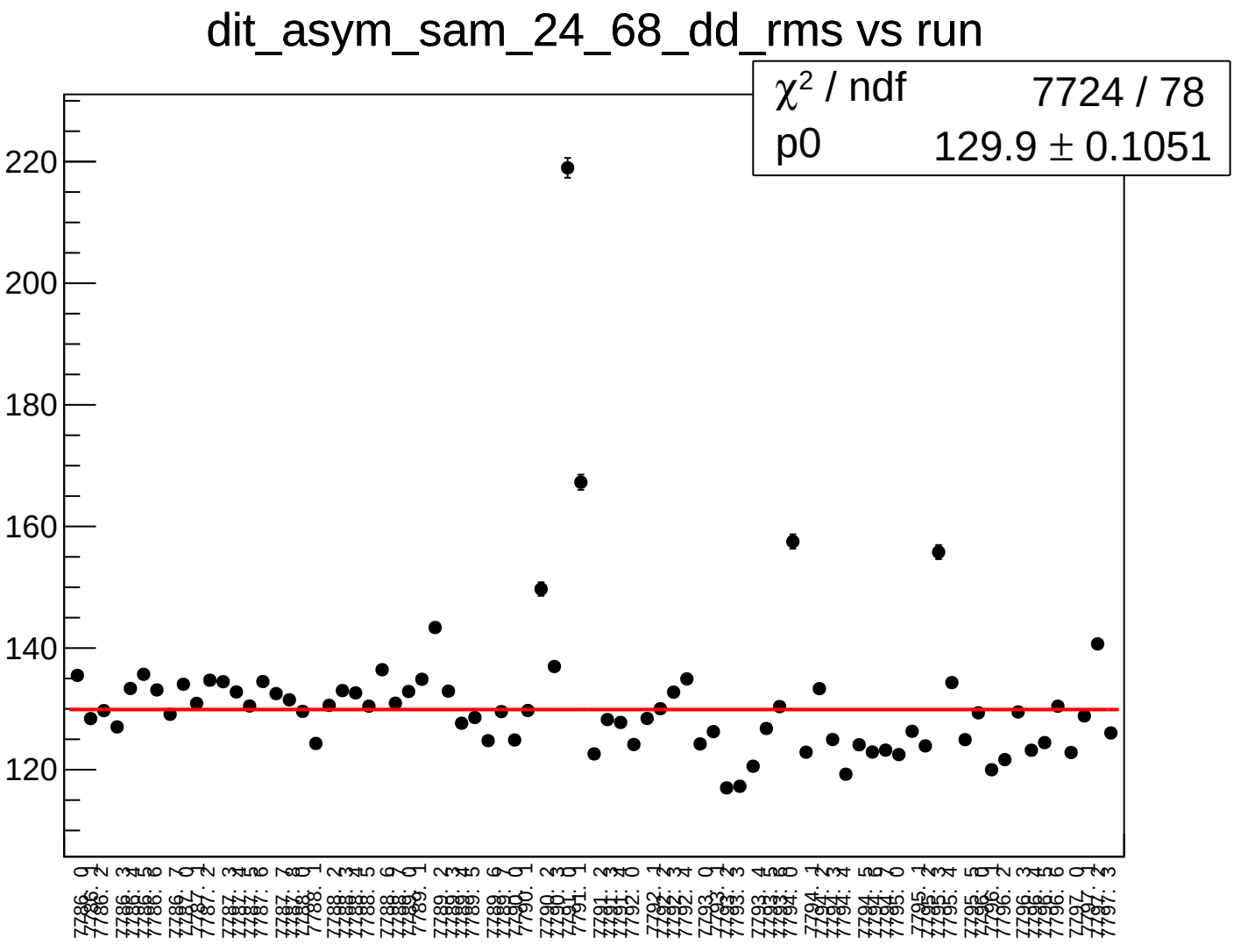


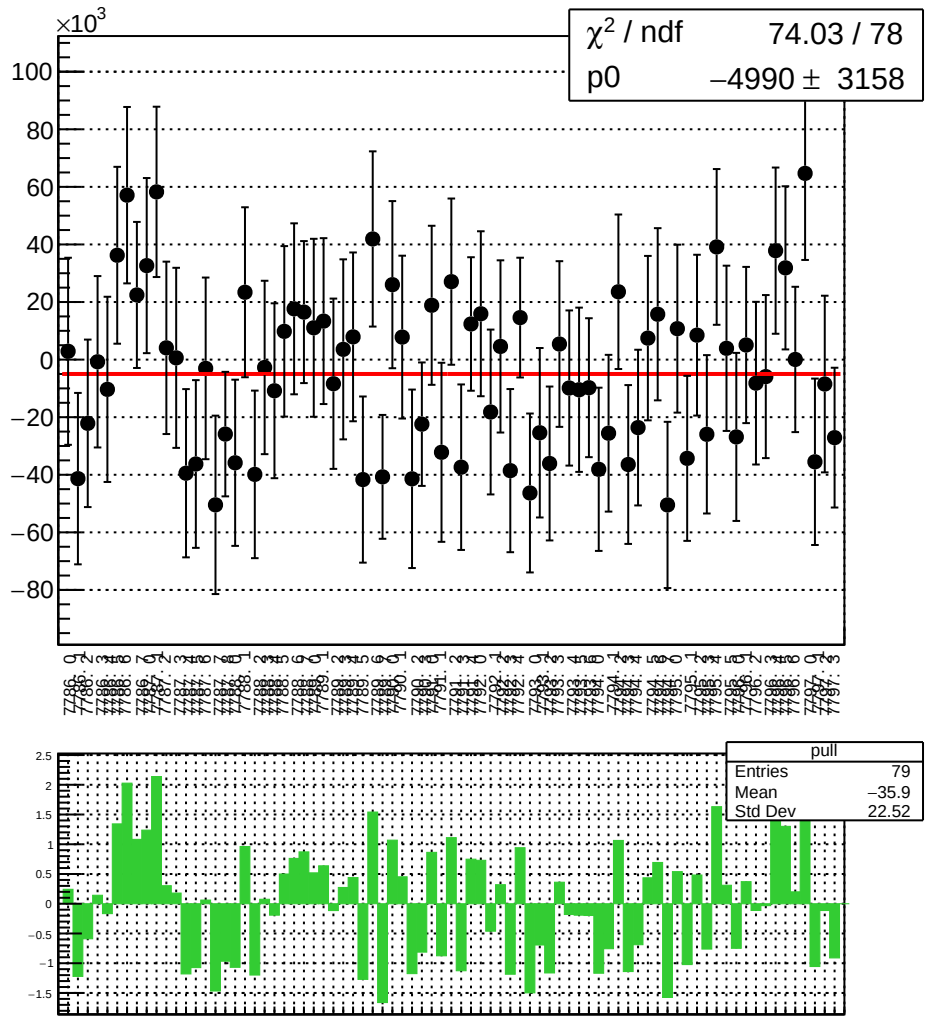


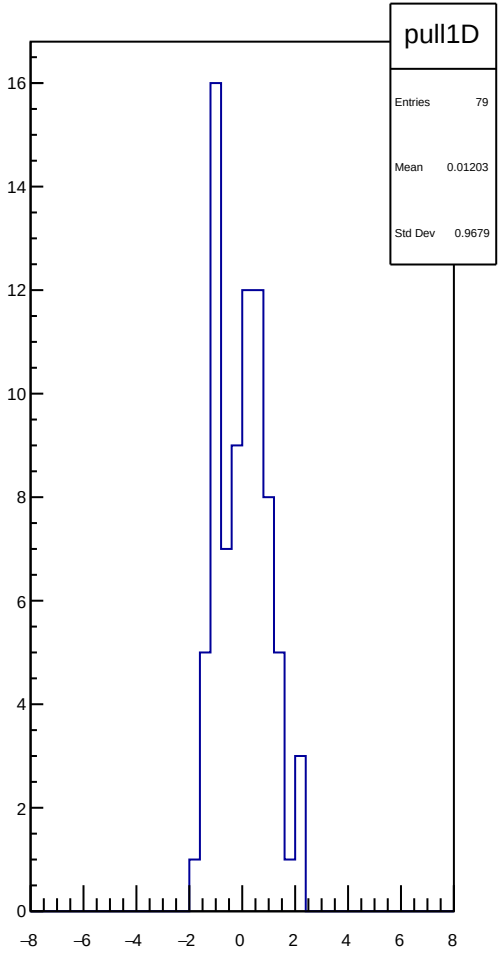

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2706 / 78
p0 2740 ± 2.214
3100
3000
2900
2800
2700
2600
2500

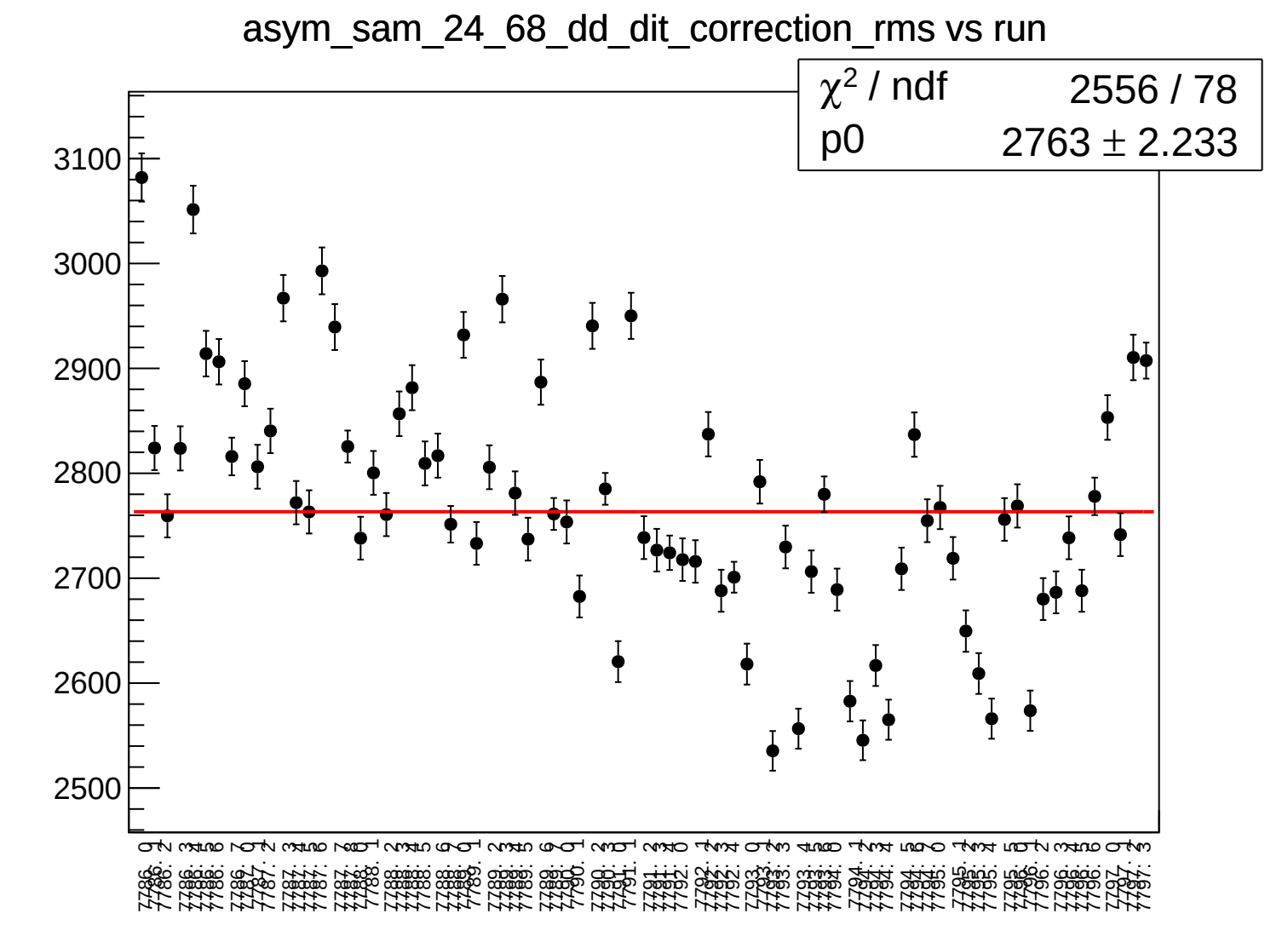

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 73.42 / 78
p0 −119.9 ± 148.7
pull
Entries 79
Mean −4217
Std Dev 0

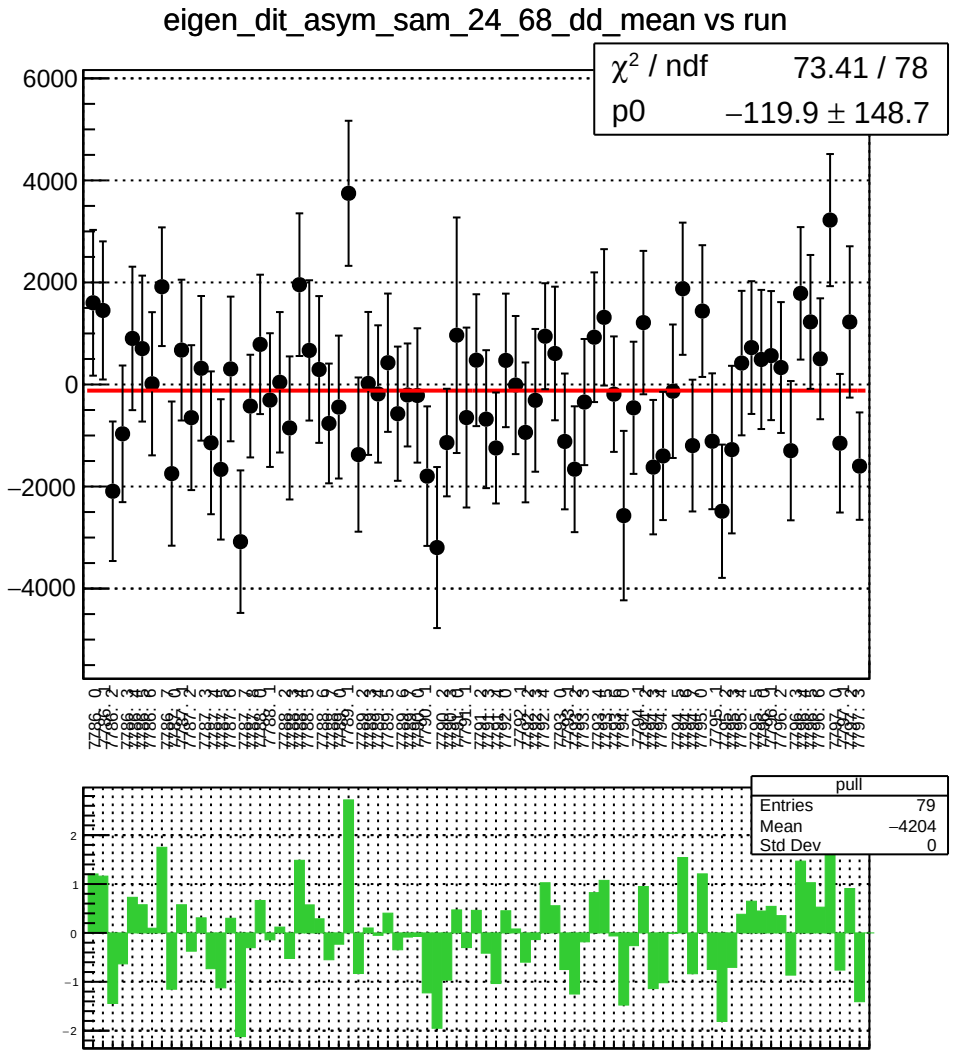

pull1D
Entries 79
Mean −0.0001887
Std Dev 0.964

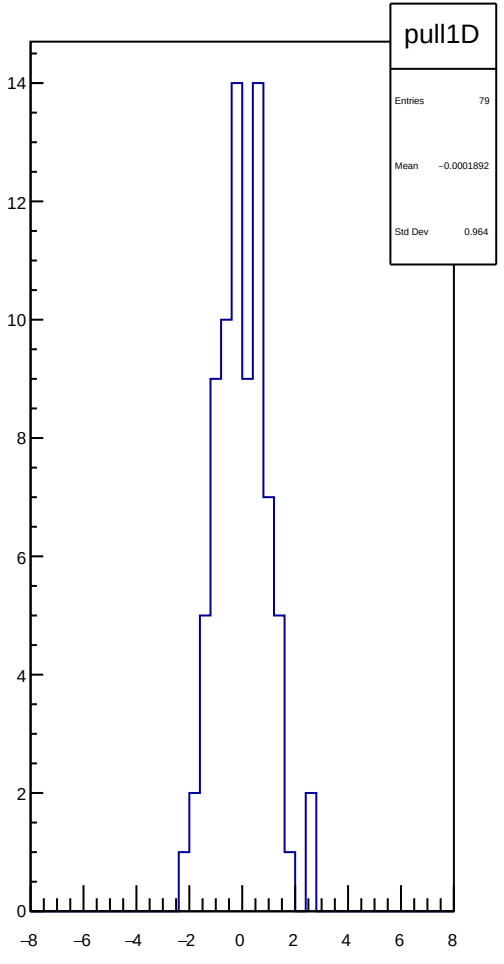

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 7724 / 78
p0 129.9 ± 0.1051
220
200
180
160
140
120

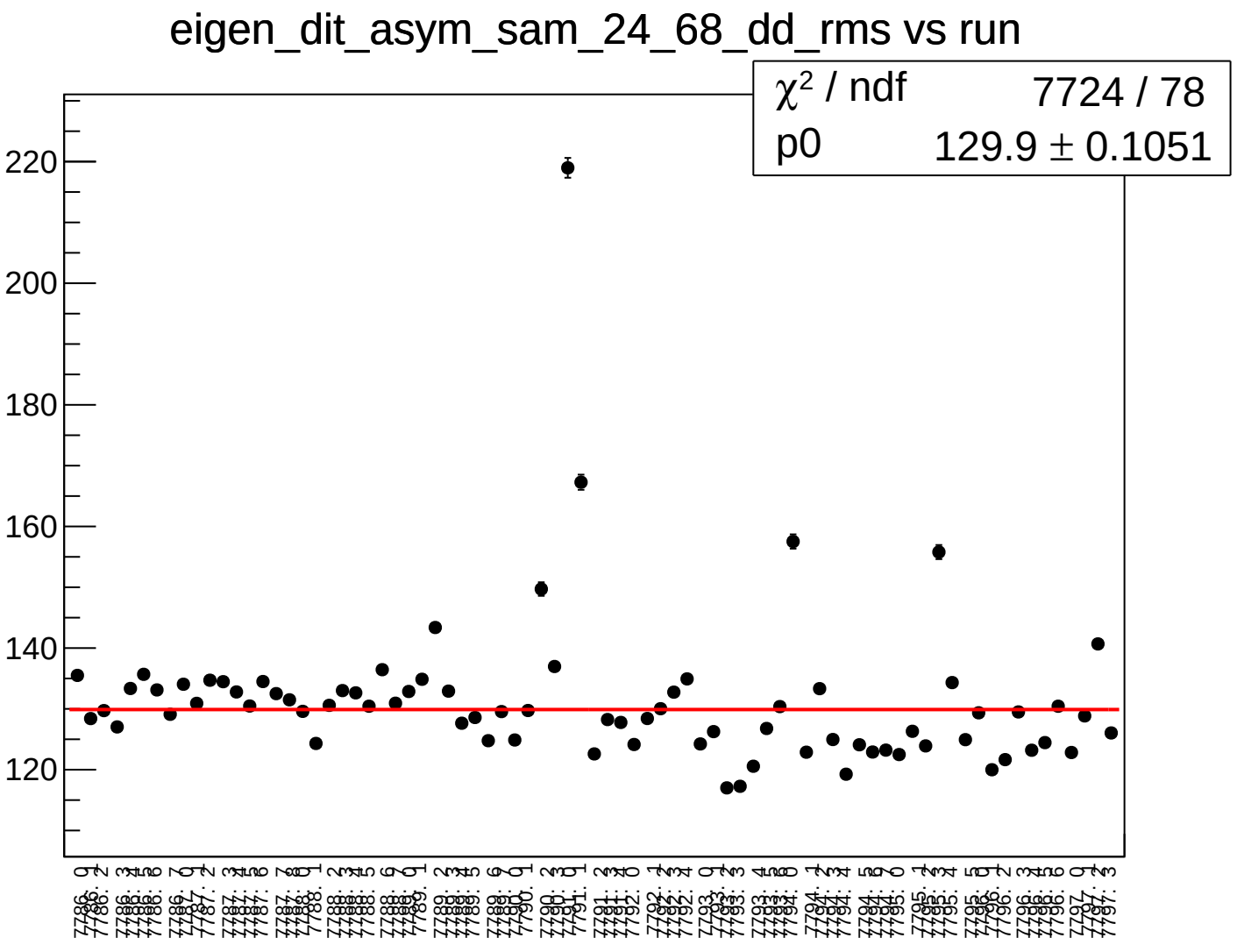

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 74.03 / 78
p0 −4990 ± 3158
pull
Entries 79
Mean −35.9
Std Dev 22.52

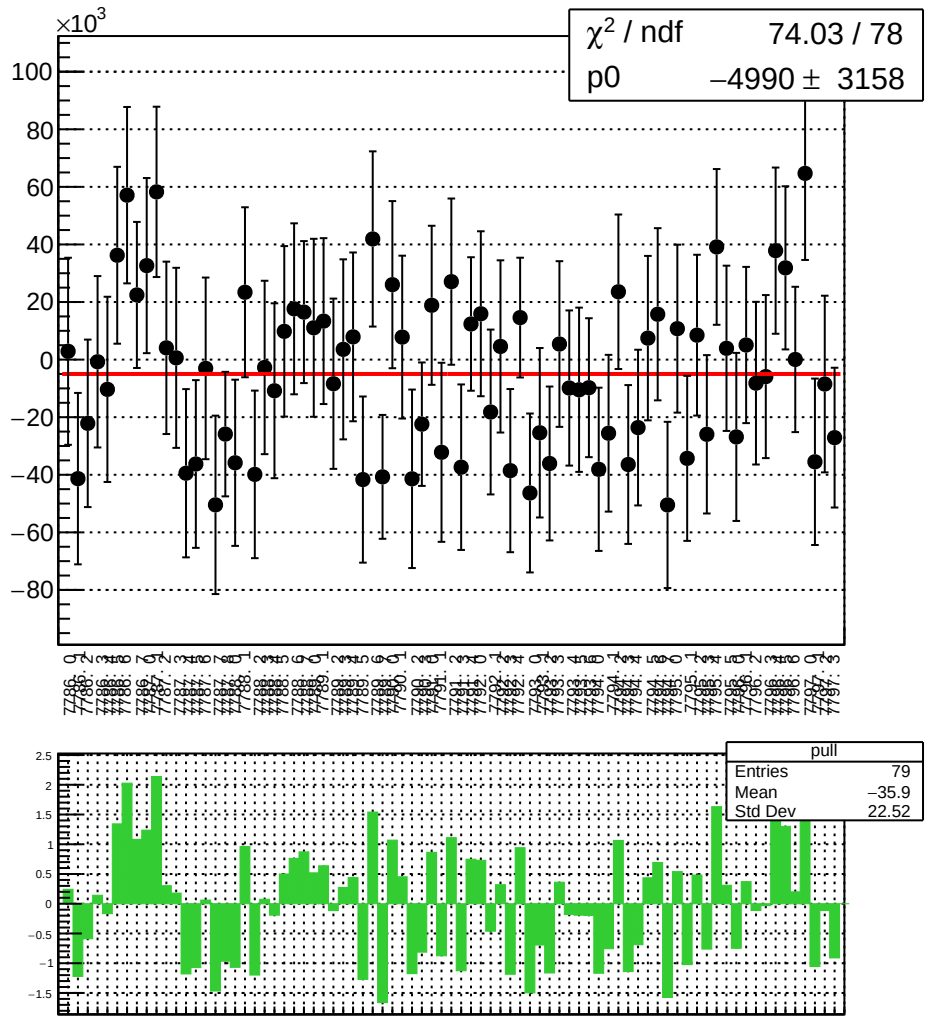

pull1D
Entries 79
Mean 0.01203
Std Dev 0.9679

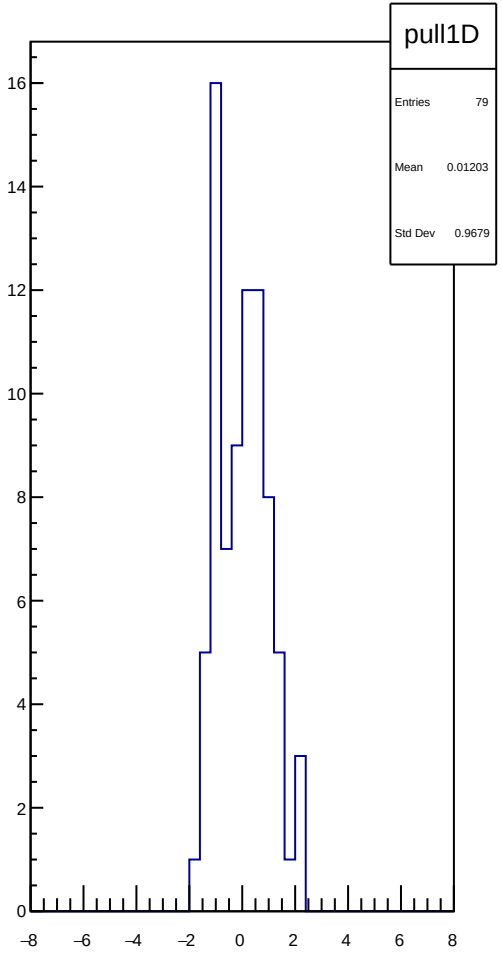

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 2556 / 78
p0 2763 ± 2.233
3100
3000
2900
2800
2700
2600
2500

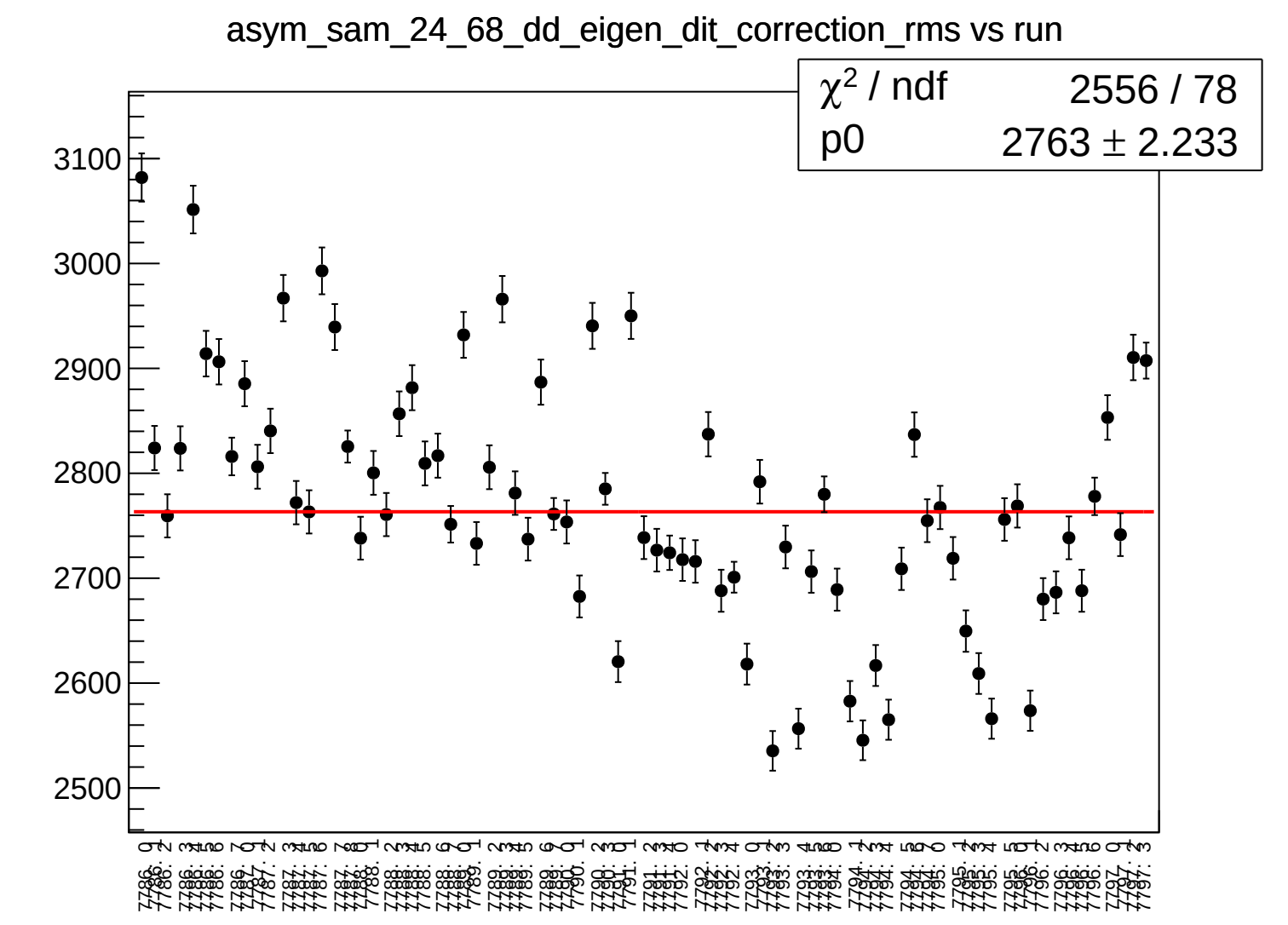

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 73.41 / 78
p0 −119.9 ± 148.7
6000
4000
2000
0
−2000
−4000
pull
Entries 79
Mean −4204
Std Dev 0
2
1
0
−1
−2

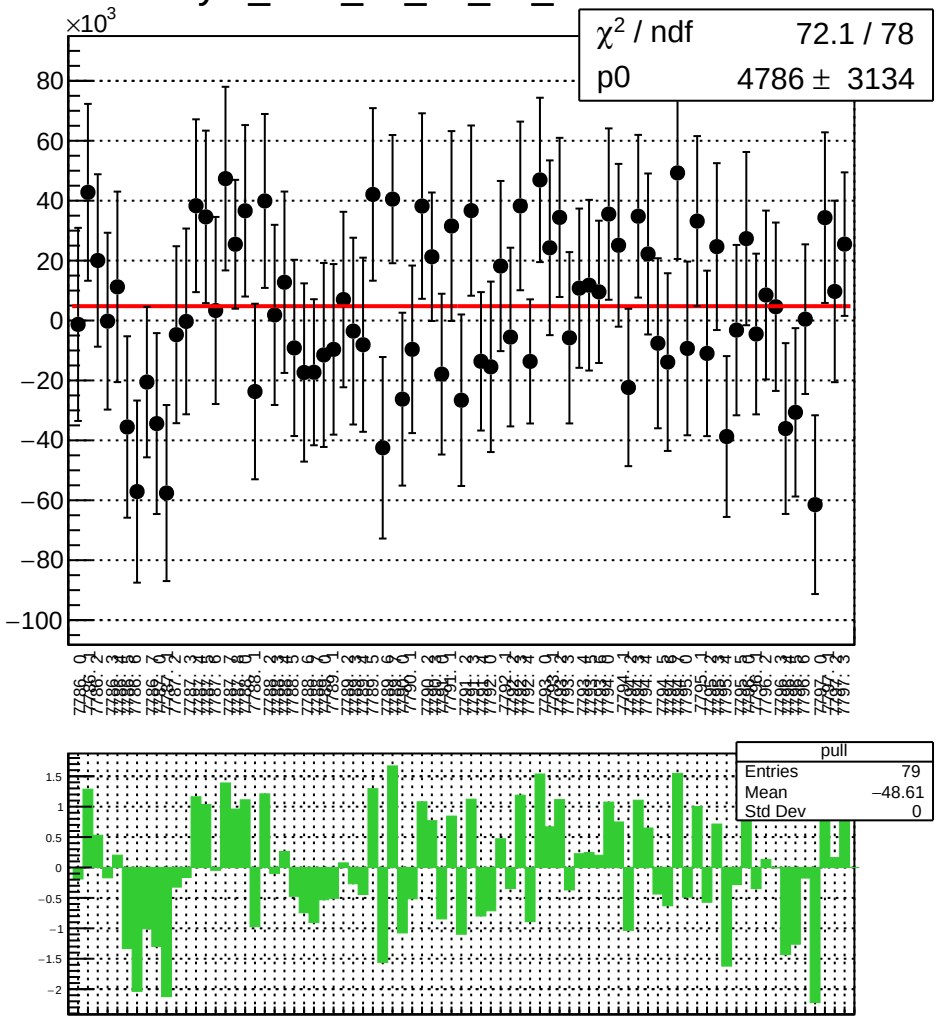

pull1D
Entries 79
Mean −0.0001892
Std Dev 0.964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

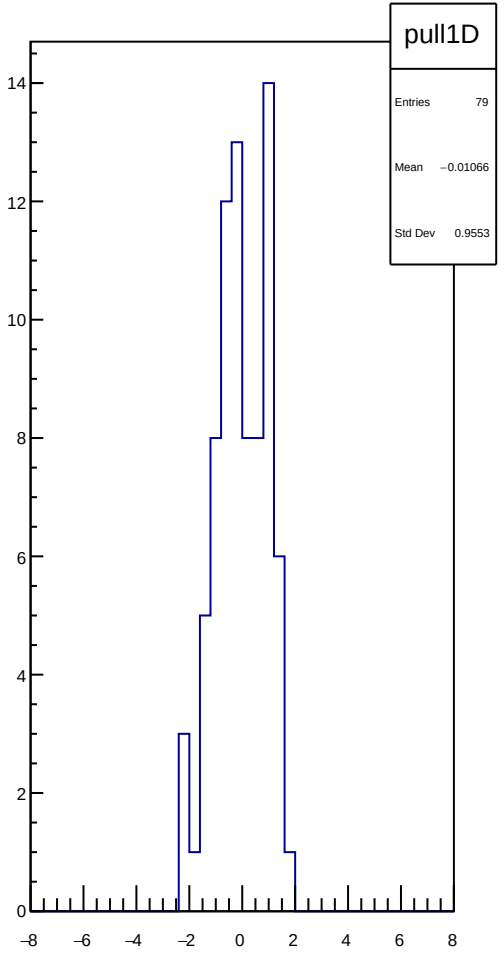

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 7724 / 78
p0 129.9 ± 0.1051
220
200
180
160
140
120

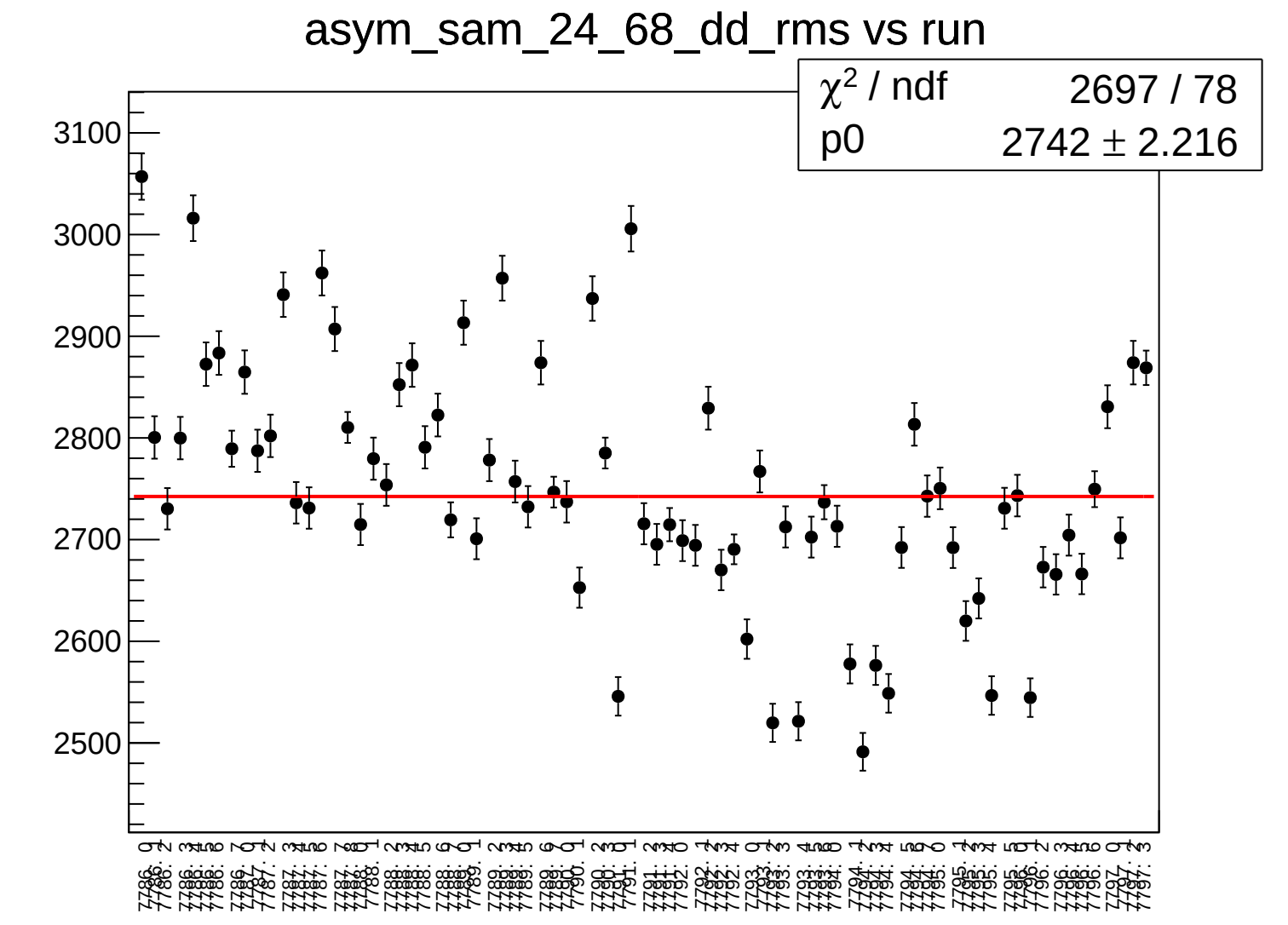

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.03 / 78
p0 −4990 ± 3158
pull
Entries 79
Mean −35.9
Std Dev 22.52

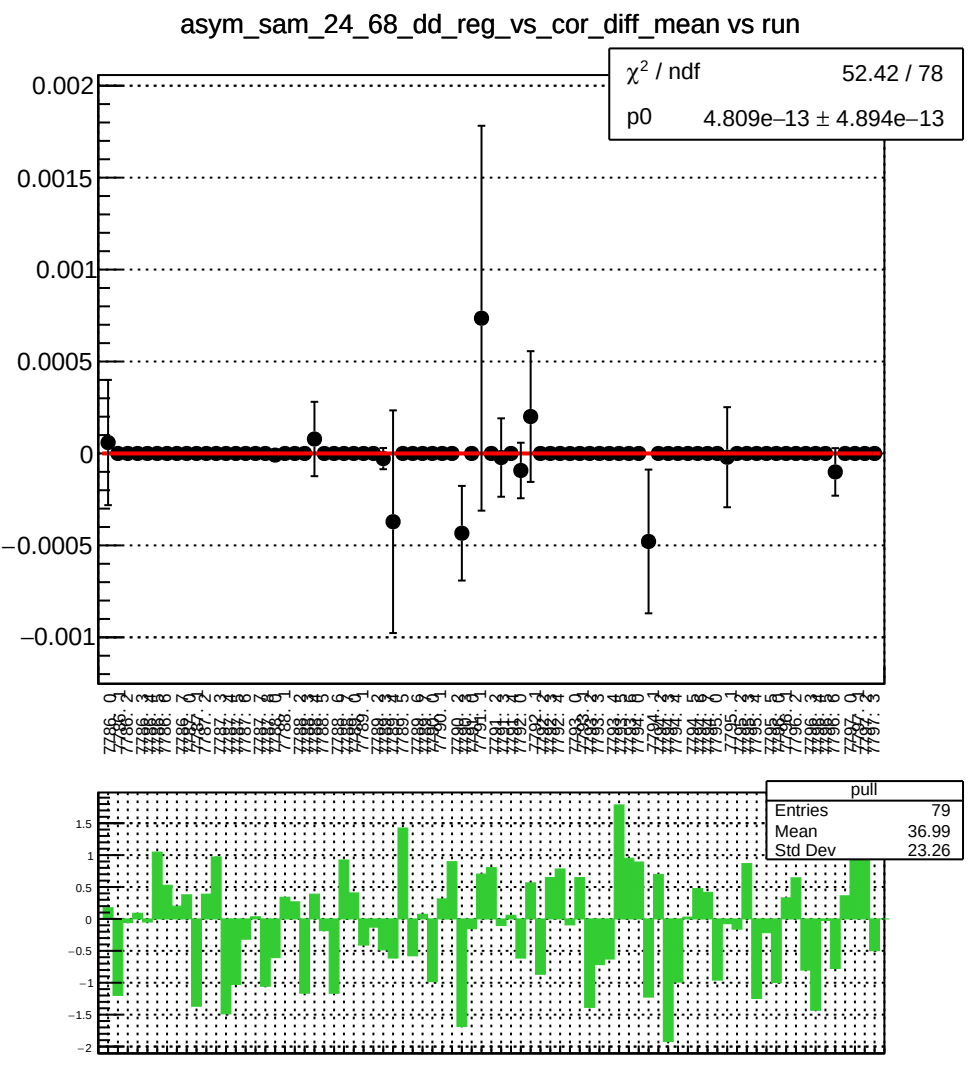

pull1D
Entries 79
Mean 0.01203
Std Dev 0.9679

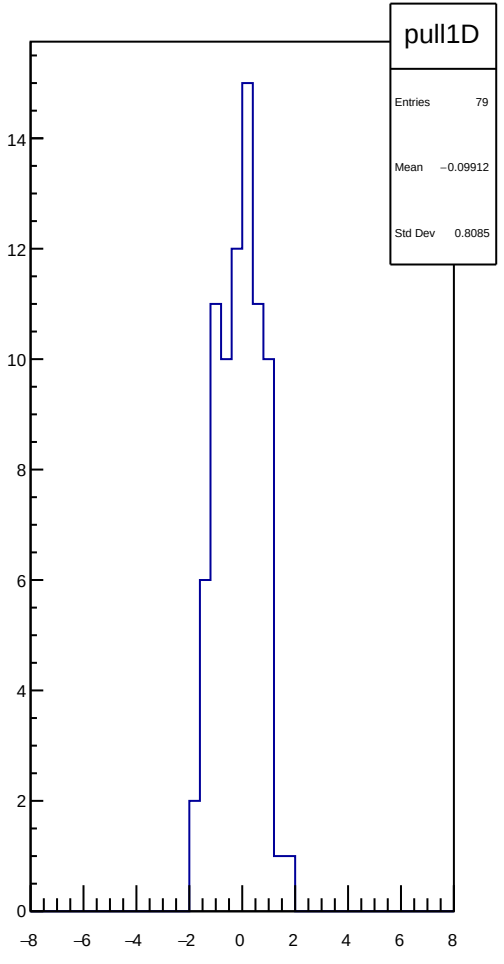

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2556 / 78
p0 2763 ± 2.233
3100
3000
2900
2800
2700
2600
2500

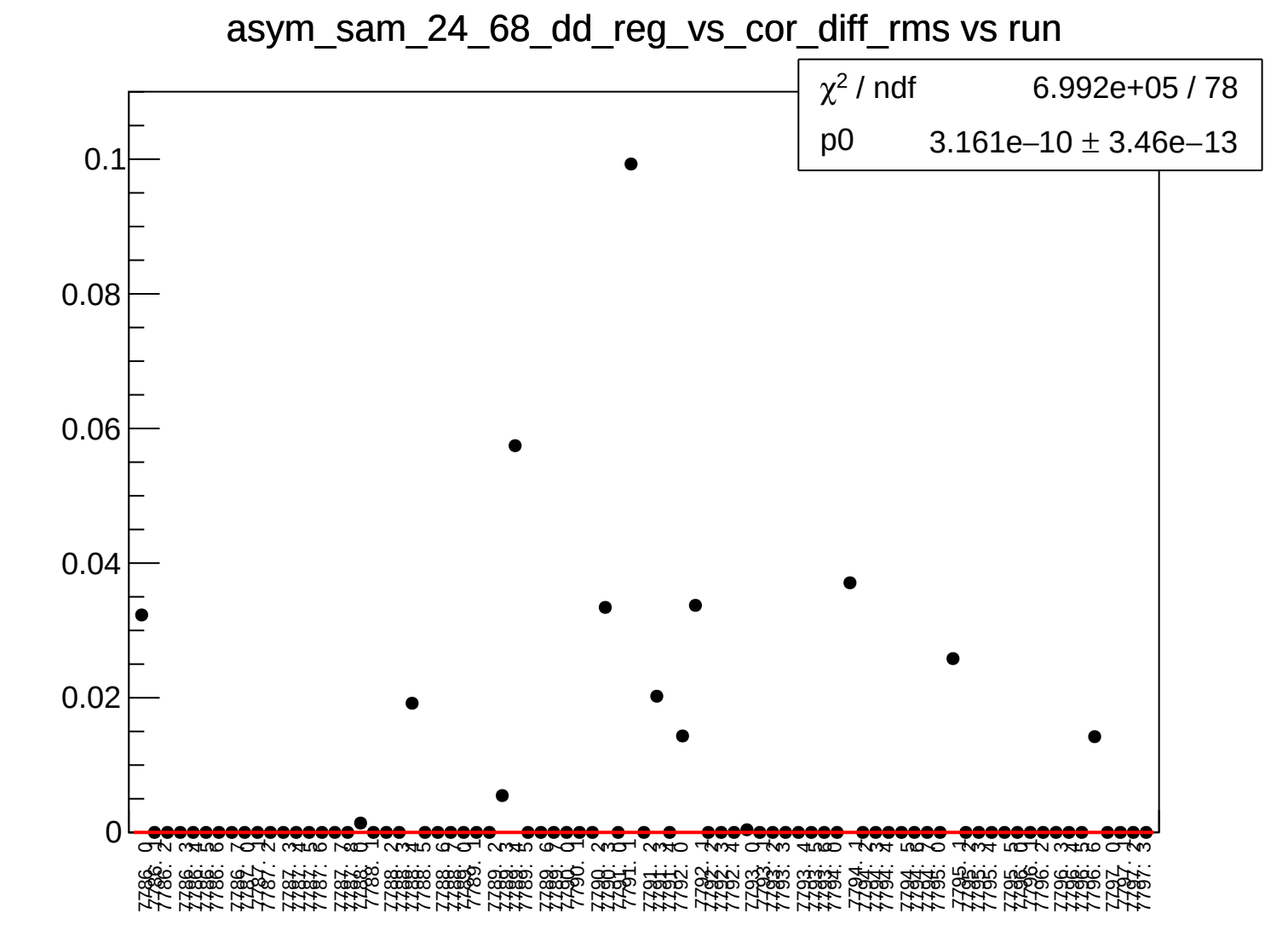

asym_sam_24_68_dd_mean vs run
χ² / ndf 72.1 / 78
p0 4786 ± 3134
×10³
pull
Entries 79
Mean −48.61
Std Dev 0

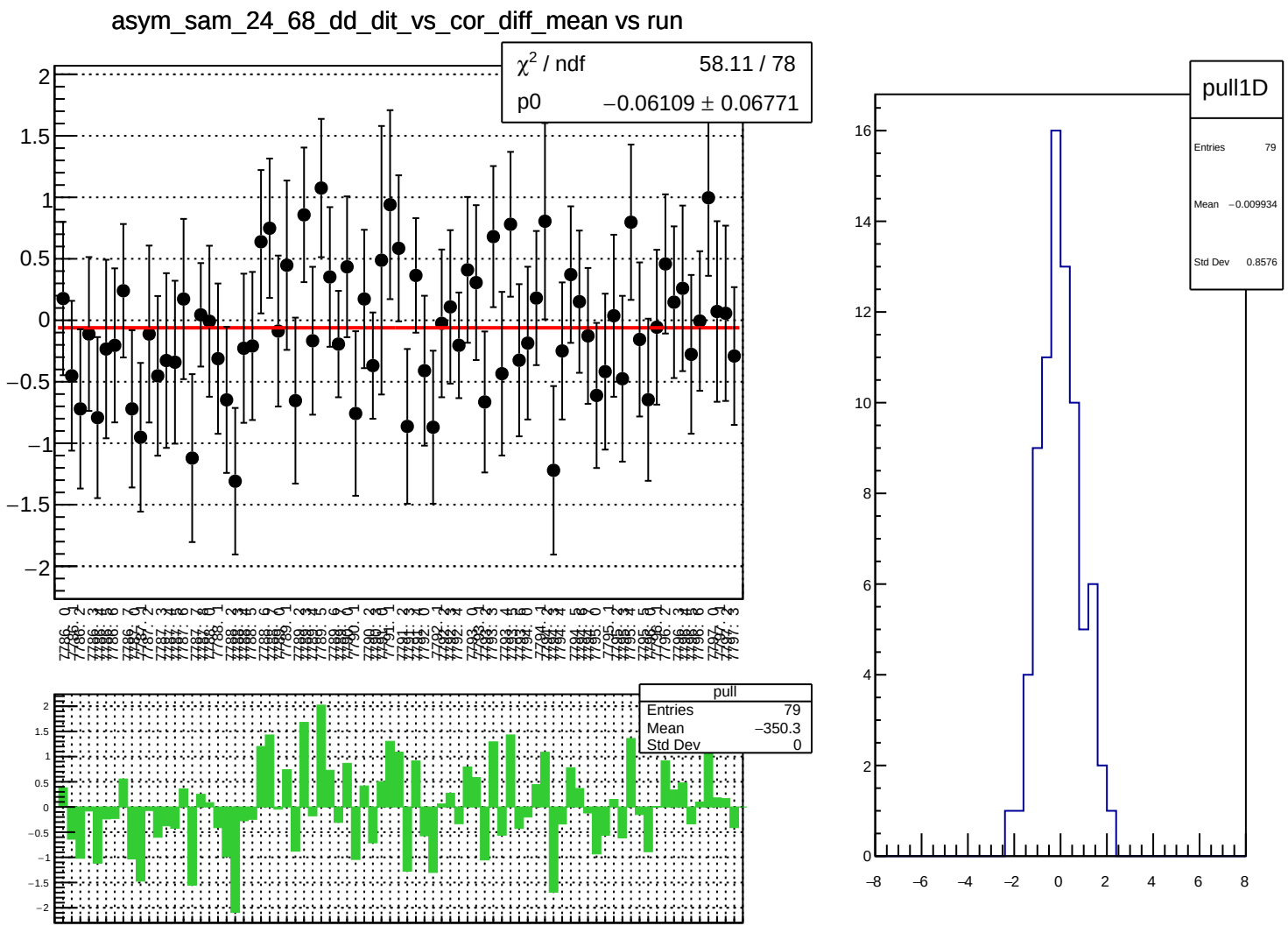

pull1D
Entries 79
Mean −0.01066
Std Dev 0.9553

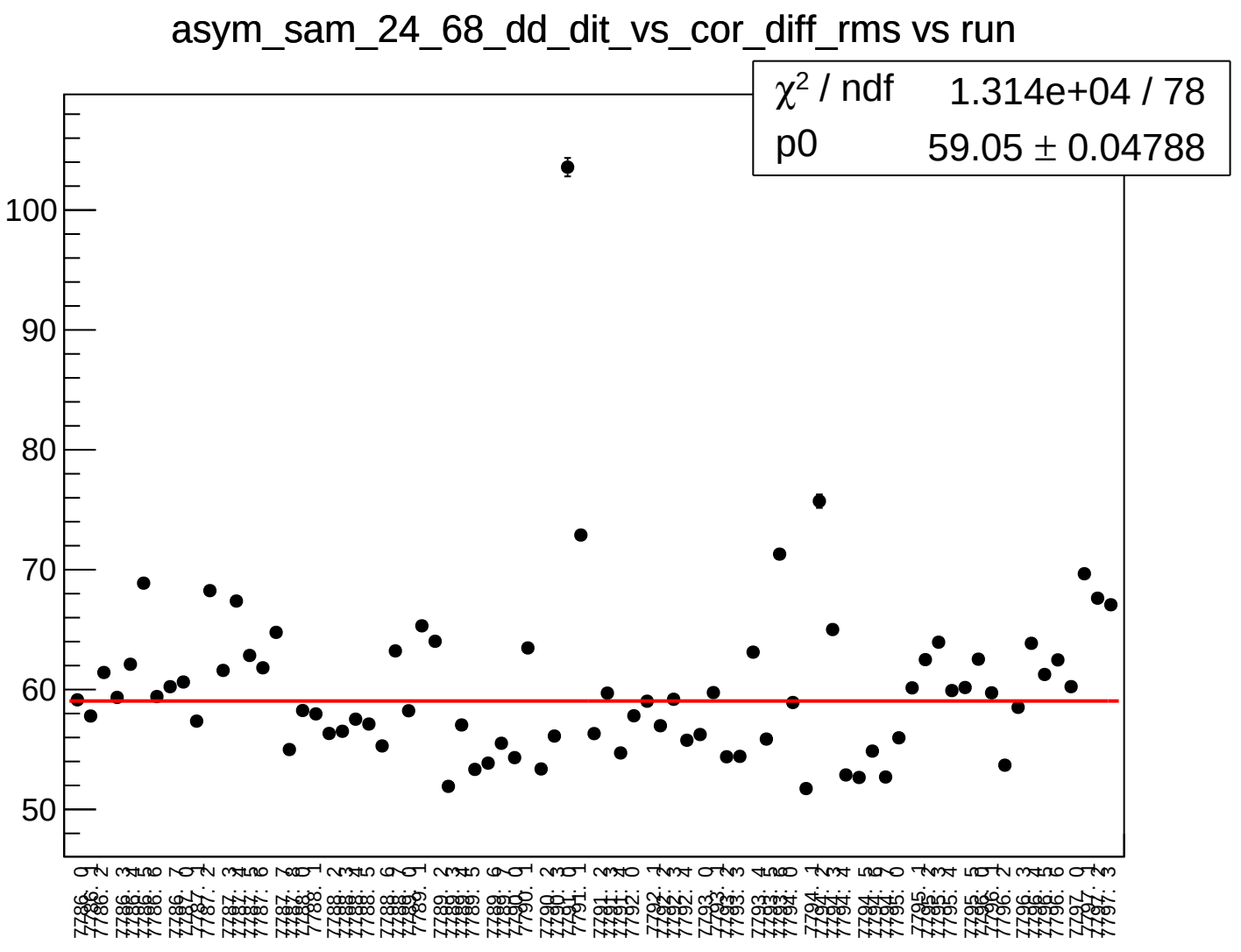

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 2697 / 78
p0 2742 ± 2.216
3100
3000
2900
2800
2700
2600
2500

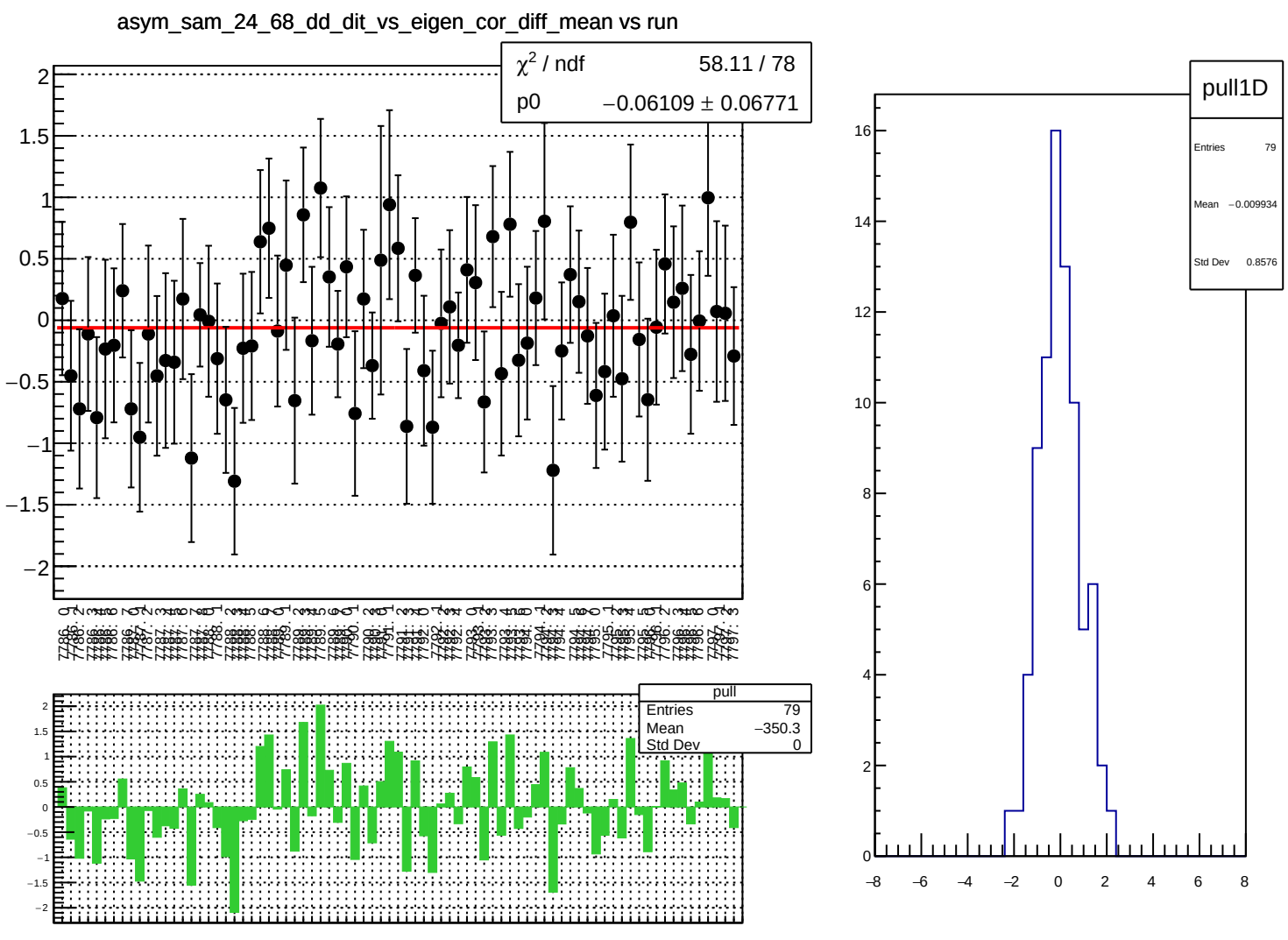

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 52.42 / 78
p0 4.809e−13 ± 4.894e−13
pull
Entries 79
Mean 36.99
Std Dev 23.26

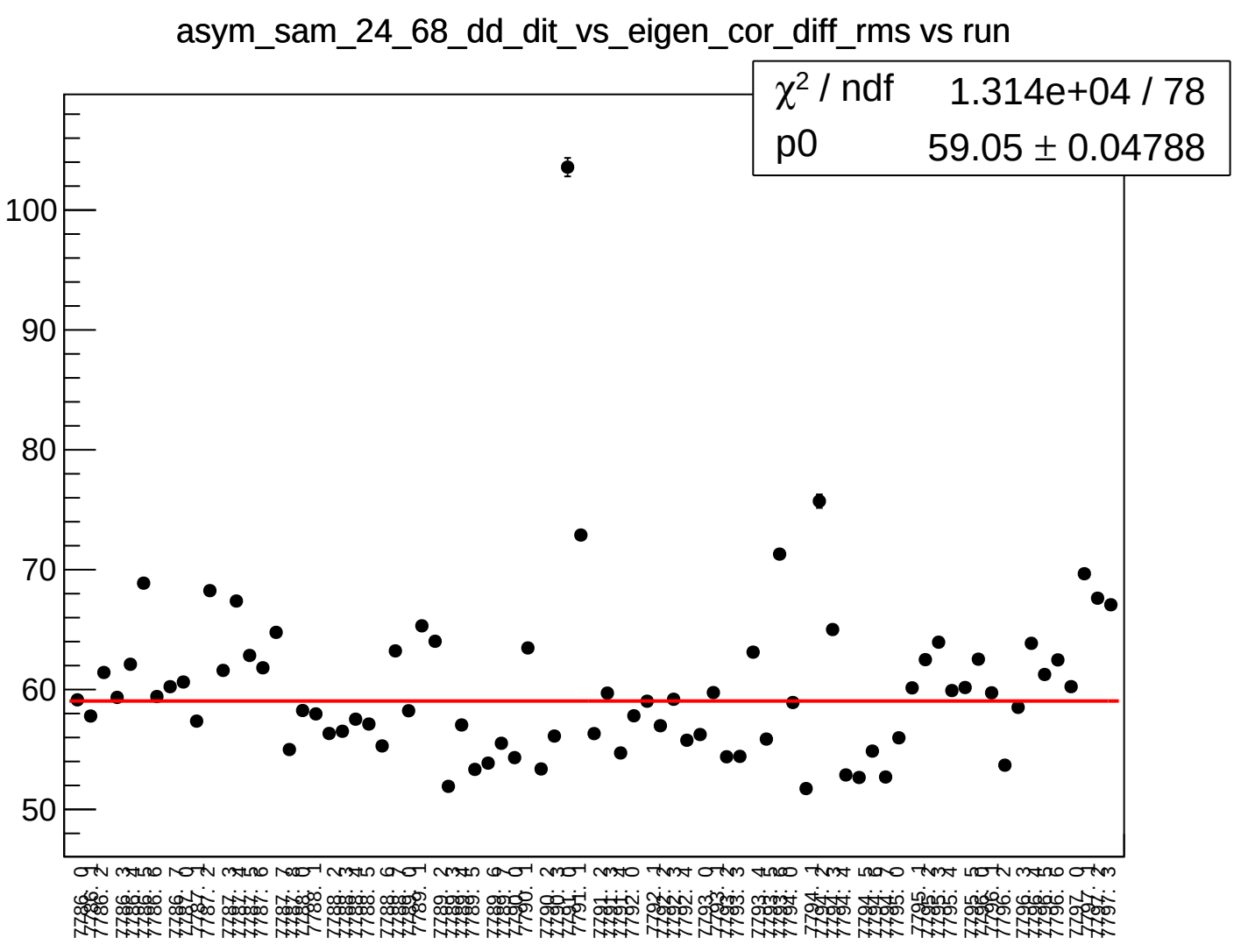

pull1D
Entries 79
Mean −0.09912
Std Dev 0.8085

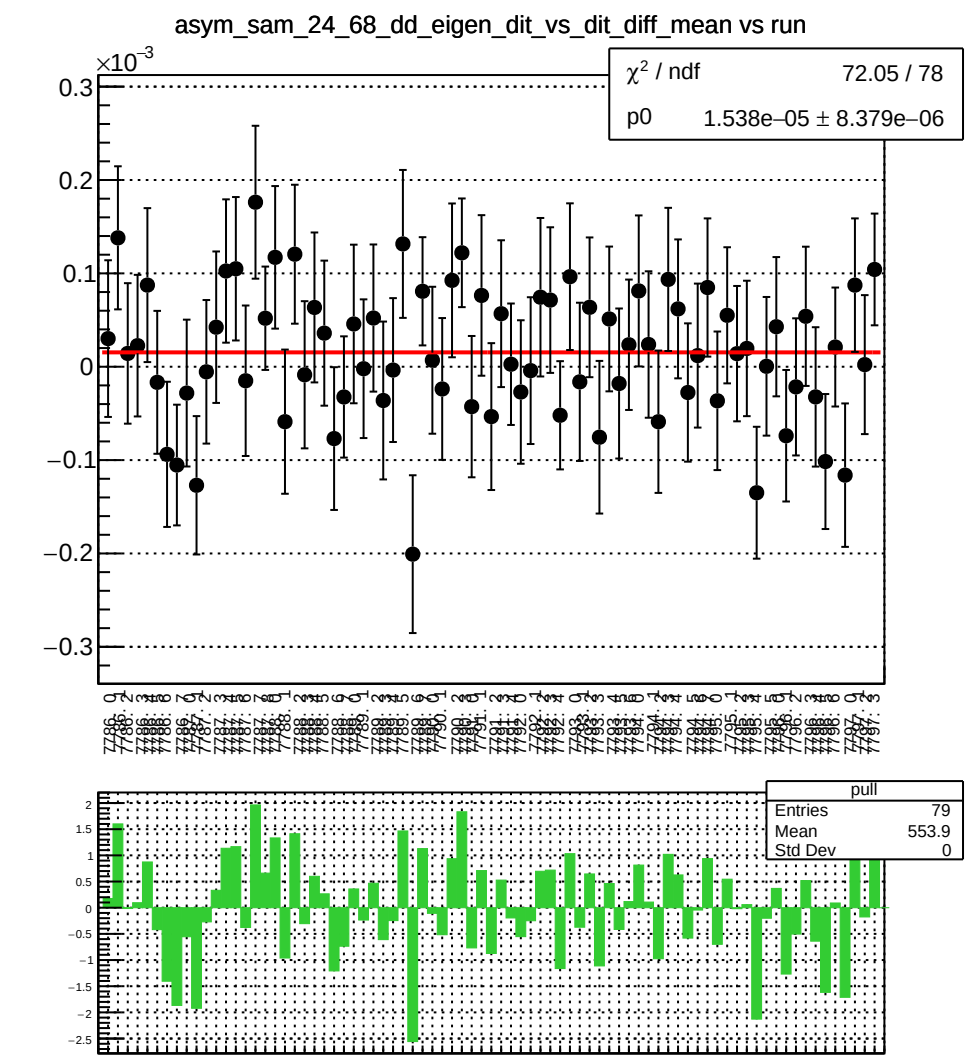

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.992e+05 / 78
p0 3.161e−10 ± 3.46e−13
0.1
0.08
0.06
0.04
0.02
0

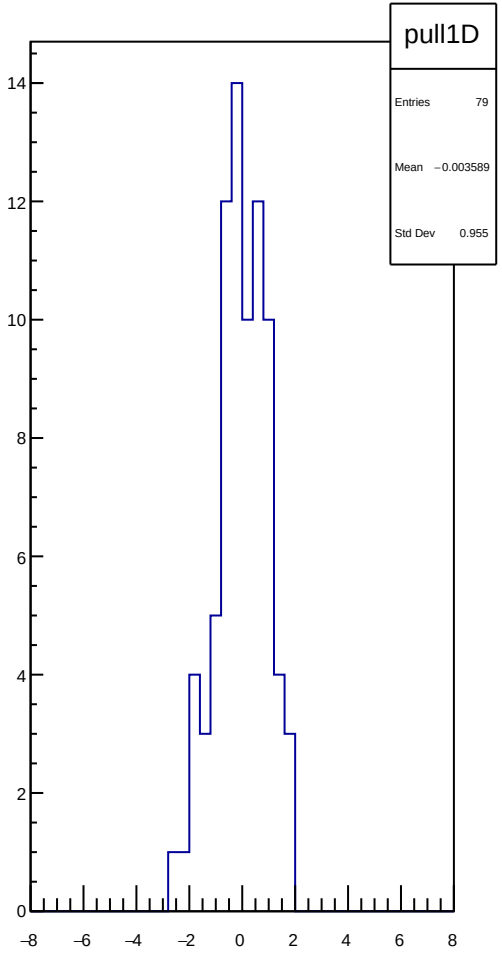

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 58.11 / 78
p0 −0.06109 ± 0.06771
pull
Entries 79
Mean −350.3
Std Dev 0
pull1D
Entries 79
Mean −0.009934
Std Dev 0.8576

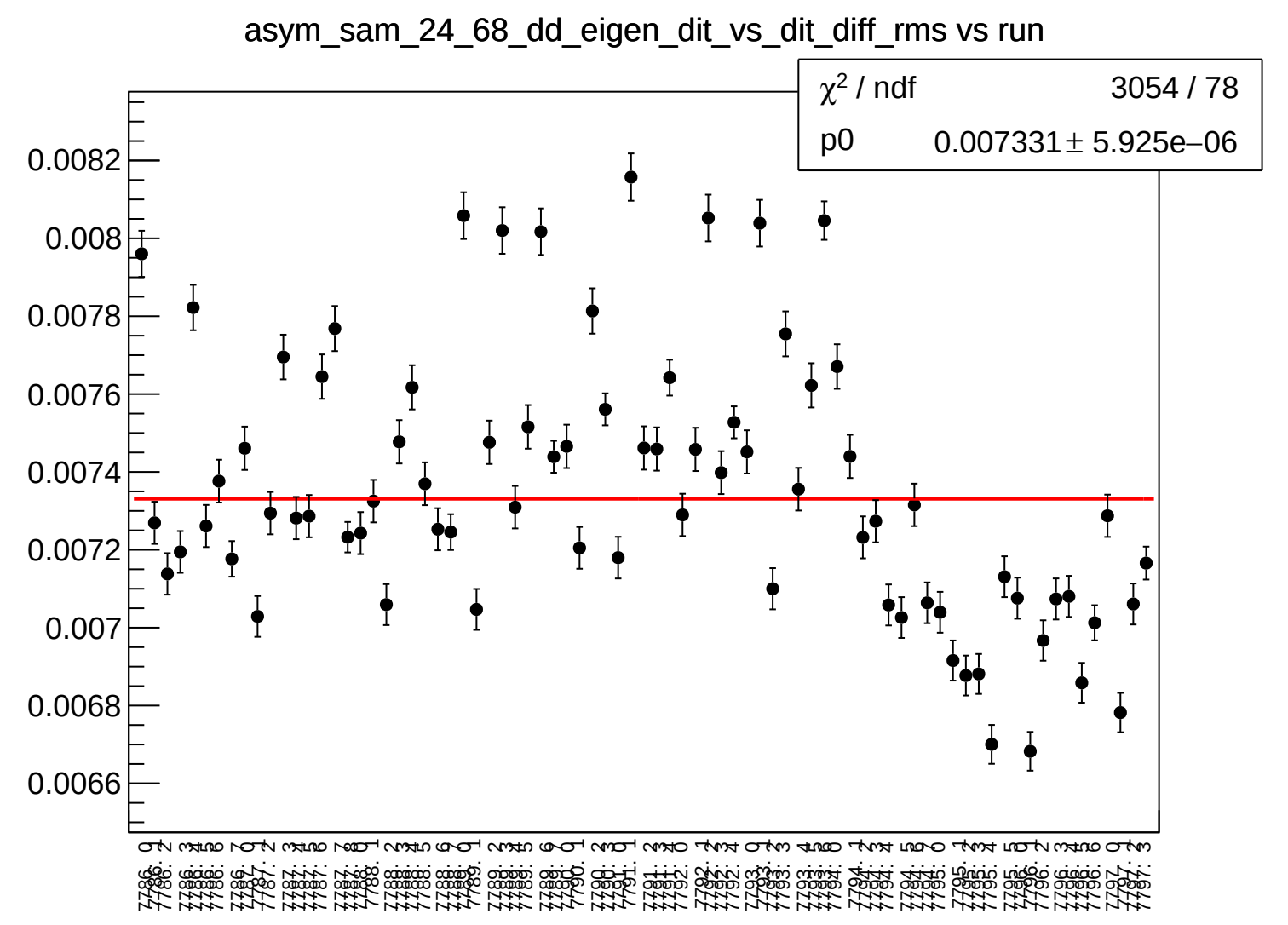

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.314e+04 / 78
p0 59.05 ± 0.04788
100
90
80
70
60
50

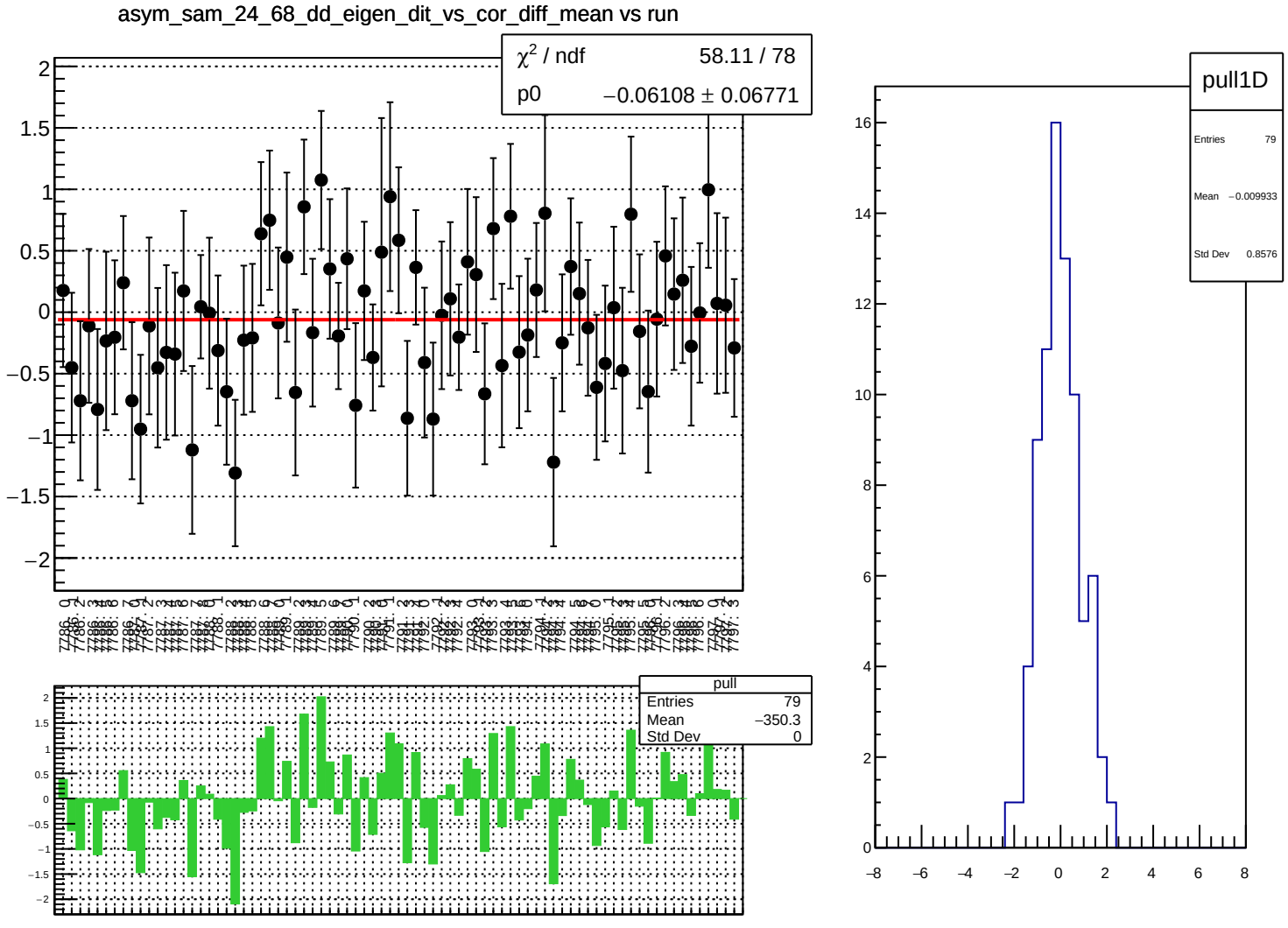

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.11 / 78
p0 −0.06109 ± 0.06771
pull
Entries 79
Mean −350.3
Std Dev 0
pull1D
Entries 79
Mean −0.009934
Std Dev 0.8576

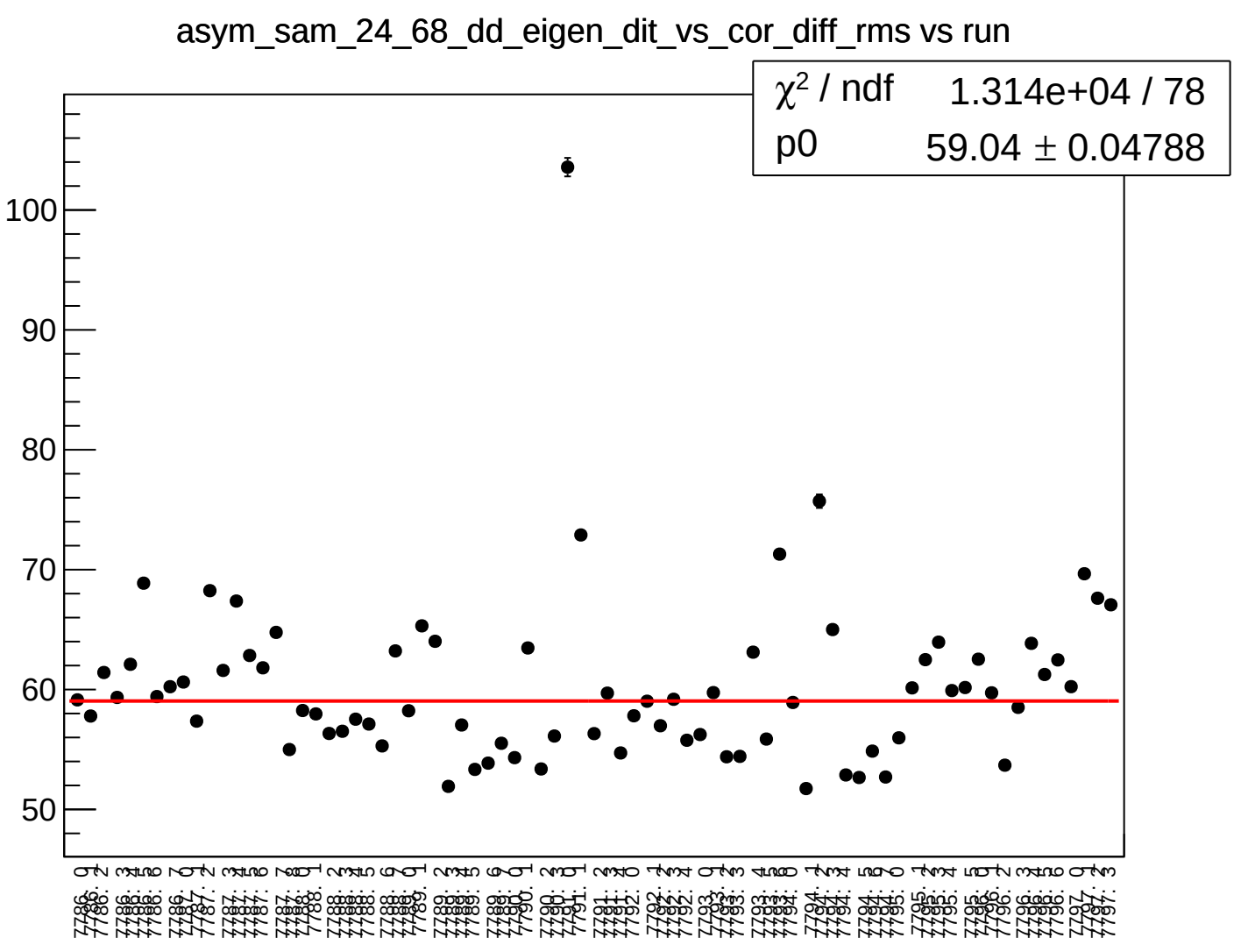

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.314e+04 / 78
p0 59.05 ± 0.04788
100
90
80
70
60
50

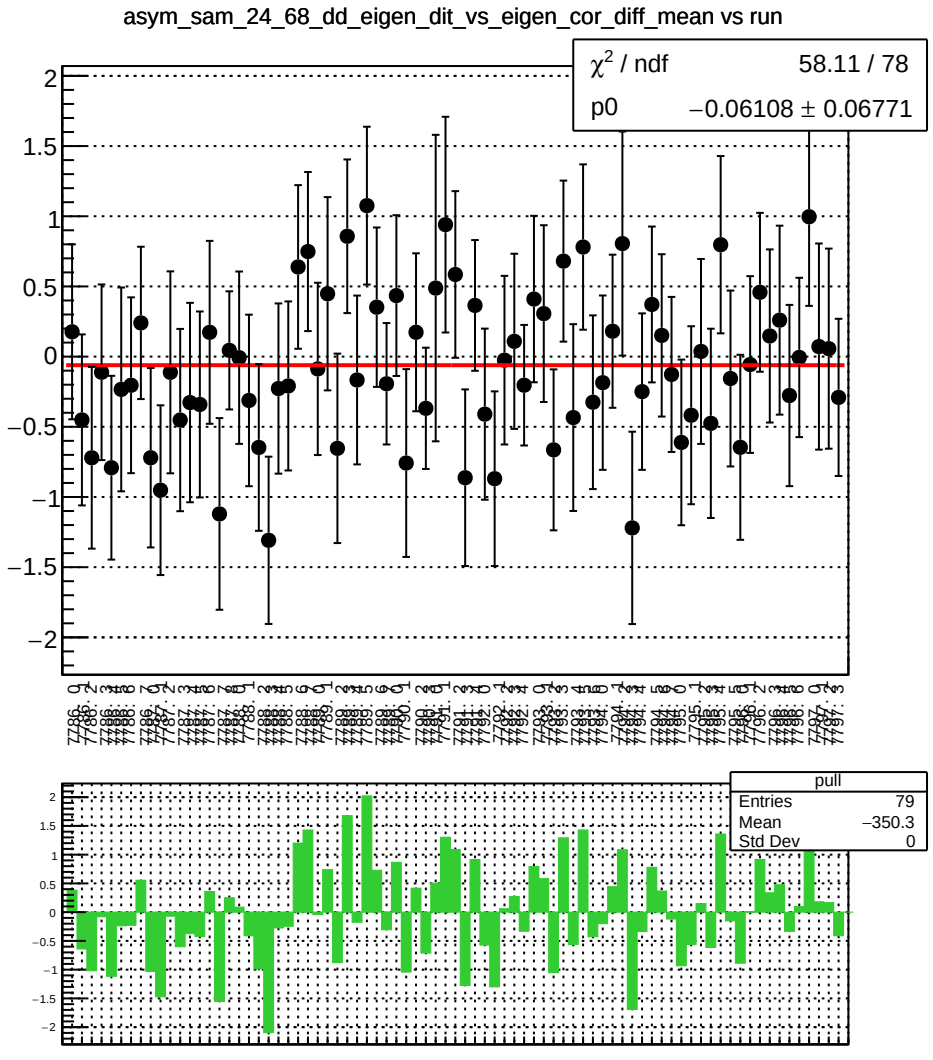

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.05 / 78
p0 1.538e−05 ± 8.379e−06
pull
Entries 79
Mean 553.9
Std Dev 0

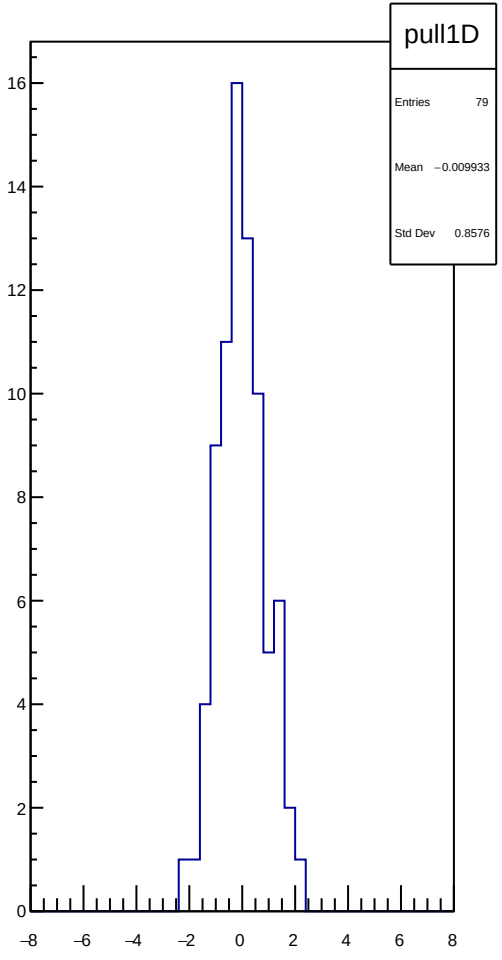

pull1D
Entries 79
Mean −0.003589
Std Dev 0.955

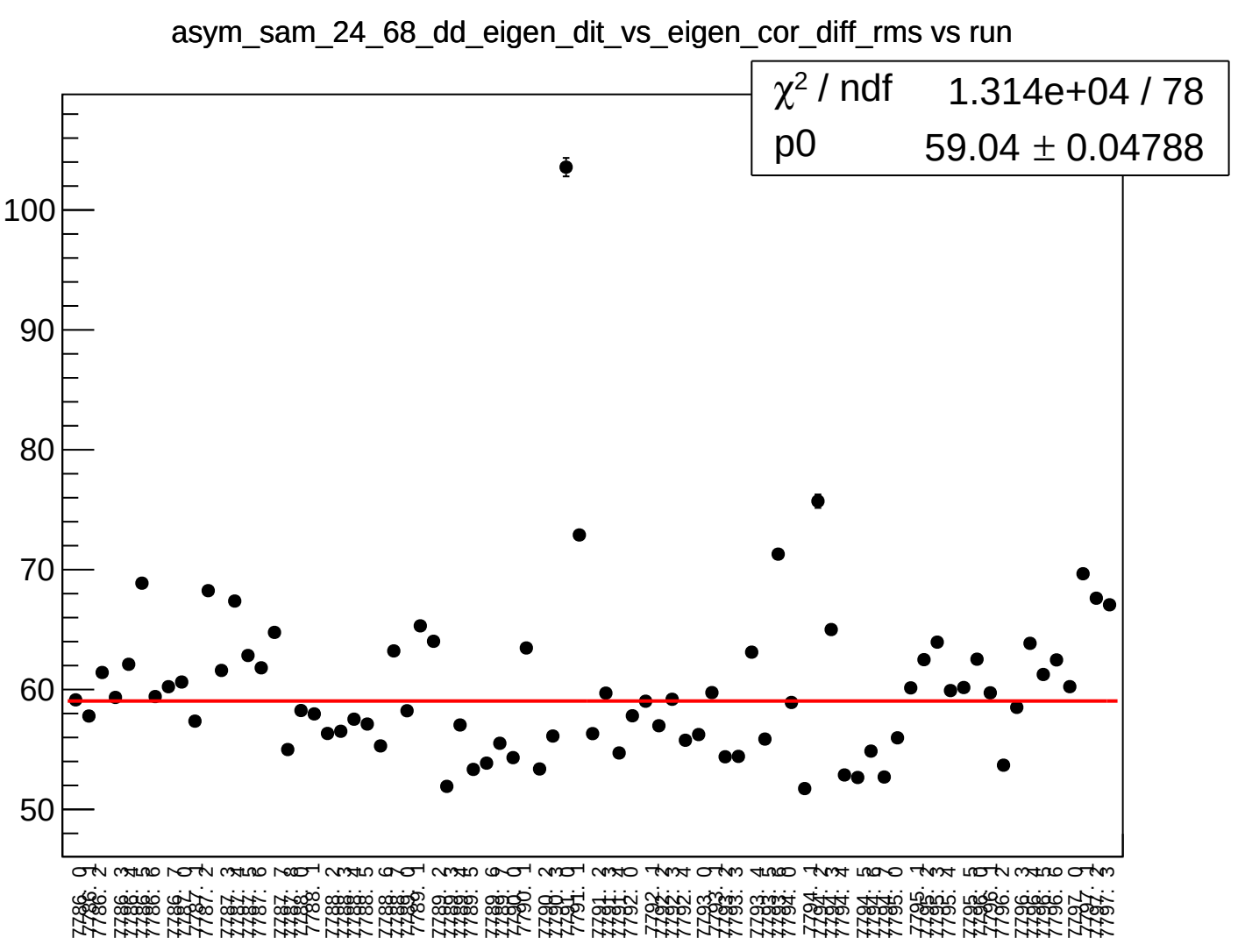

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3054 / 78
p0 0.007331 ± 5.925e−06
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066

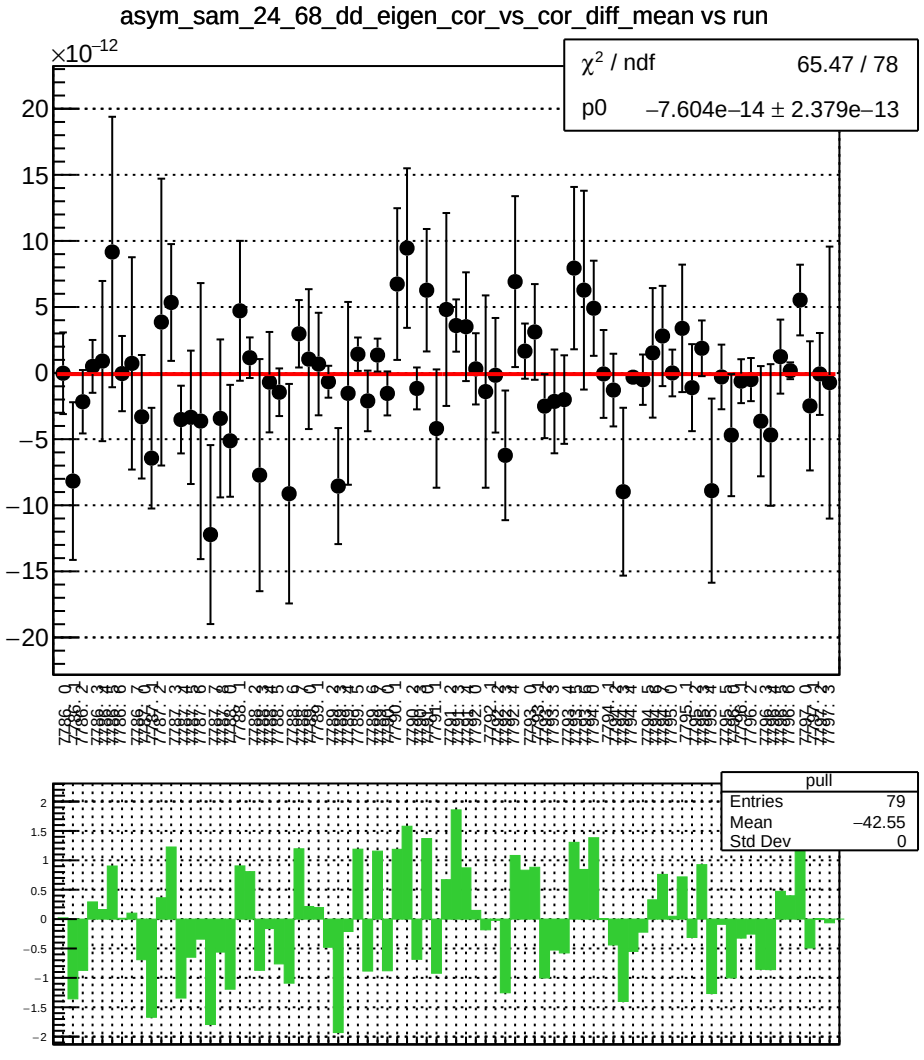

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 58.11 / 78
p0 −0.06108 ± 0.06771
pull
Entries 79
Mean −350.3
Std Dev 0
pull1D
Entries 79
Mean −0.009933
Std Dev 0.8576

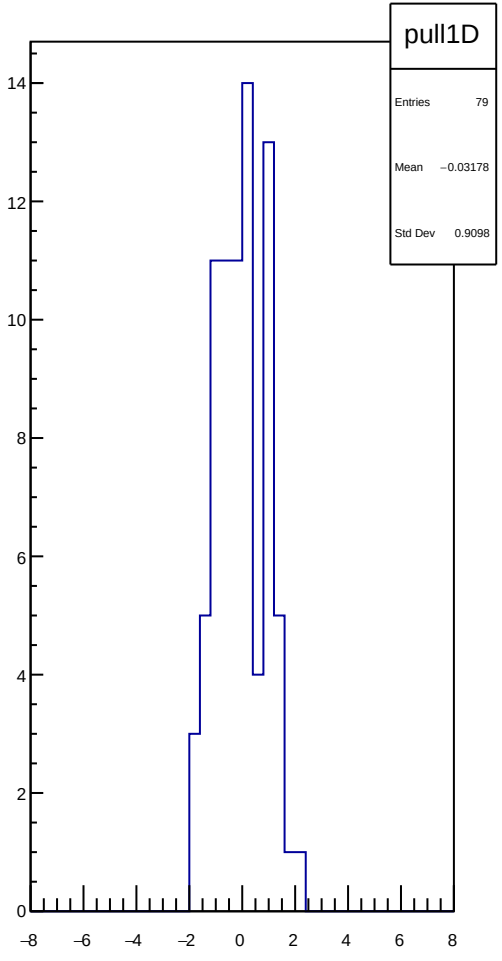

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.314e+04 / 78
p0 59.04 ± 0.04788
100
90
80
70
60
50

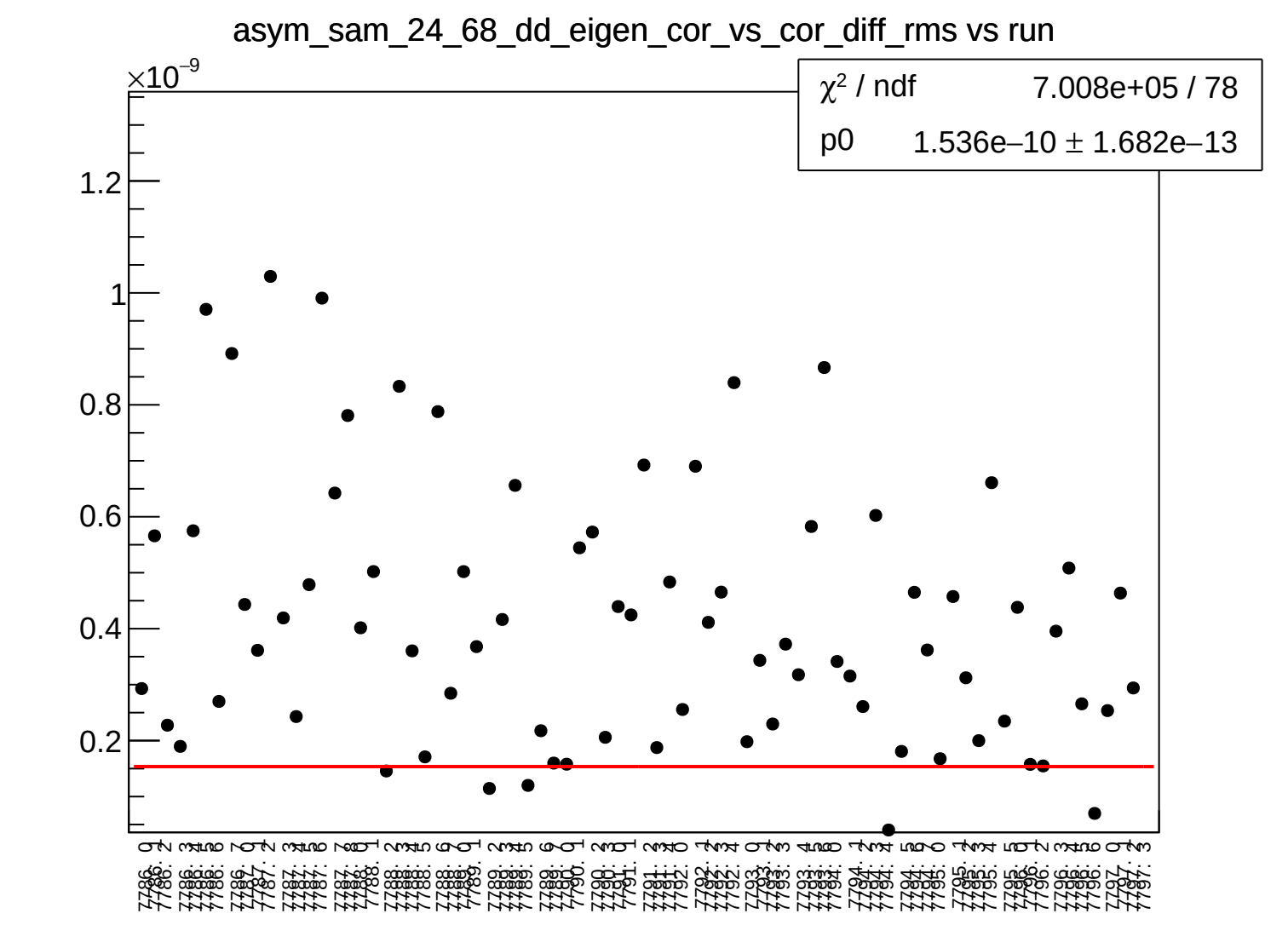

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.11 / 78
p0 −0.06108 ± 0.06771
pull
Entries 79
Mean −350.3
Std Dev 0

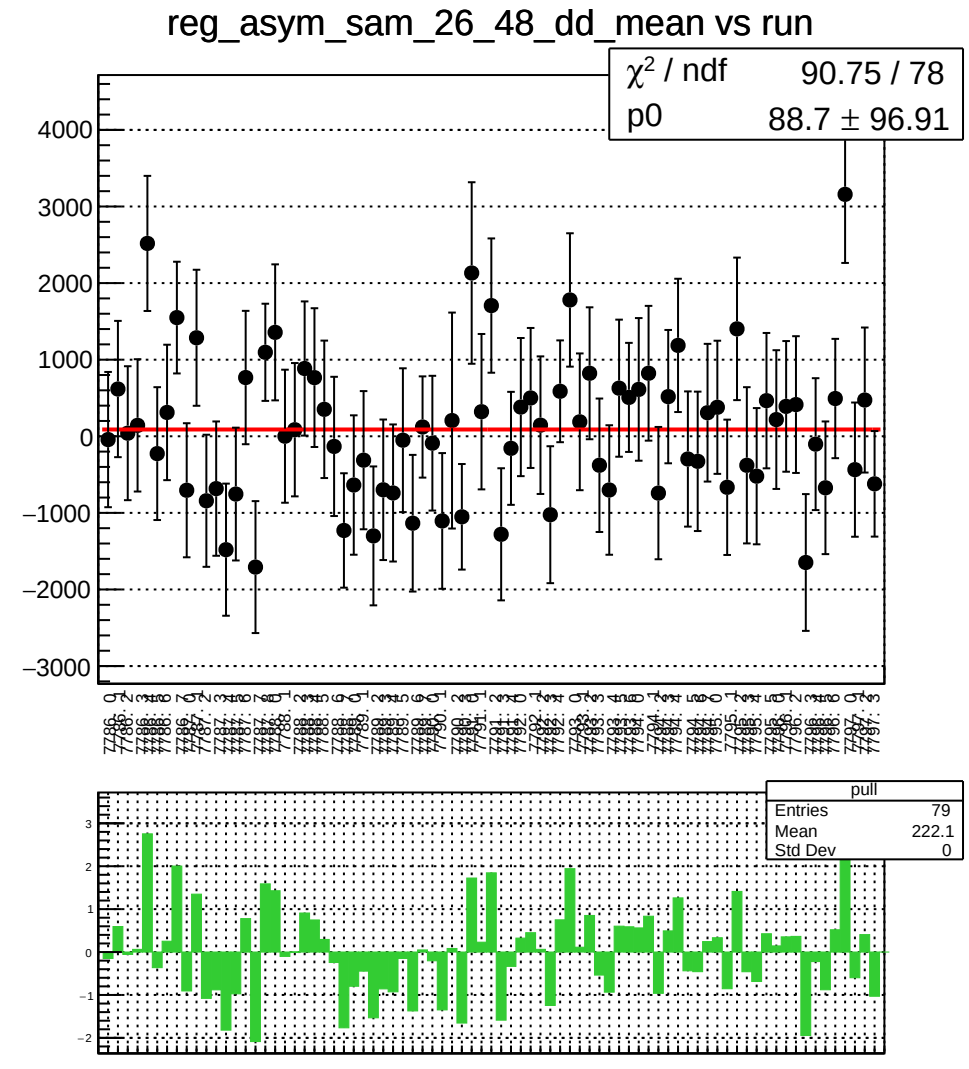

pull1D
Entries 79
Mean −0.009933
Std Dev 0.8576

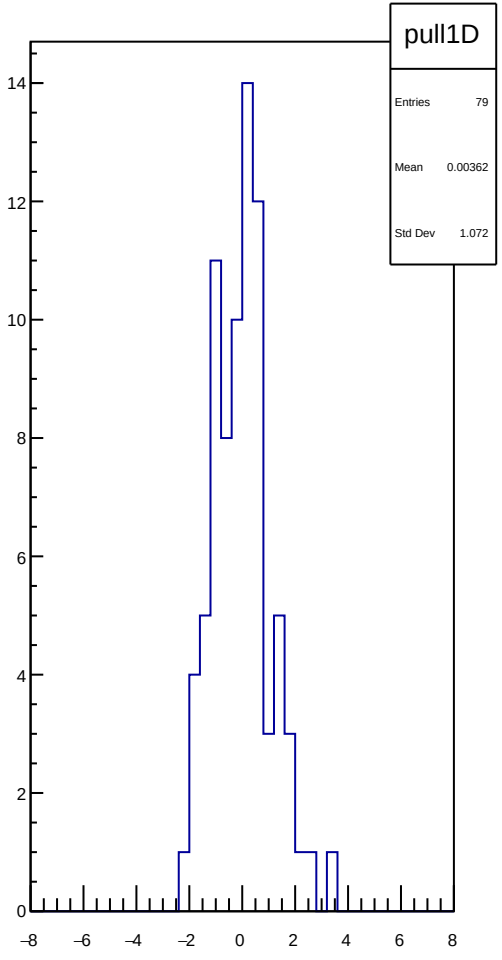

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.314e+04 / 78
p0 59.04 ± 0.04788
100
90
80
70
60
50

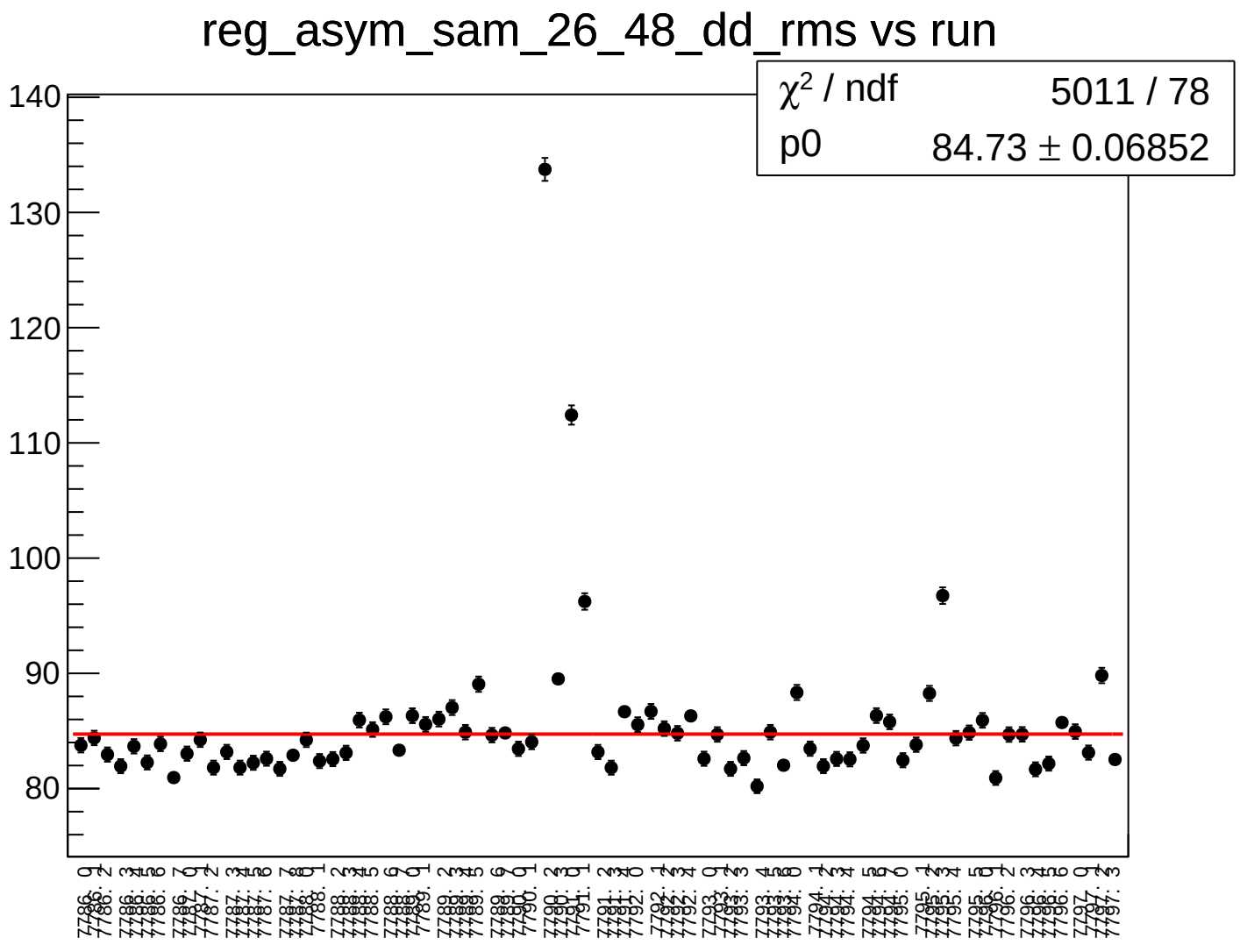

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.47 / 78
p0 −7.604e−14 ± 2.379e−13
pull
Entries 79
Mean −42.55
Std Dev 0

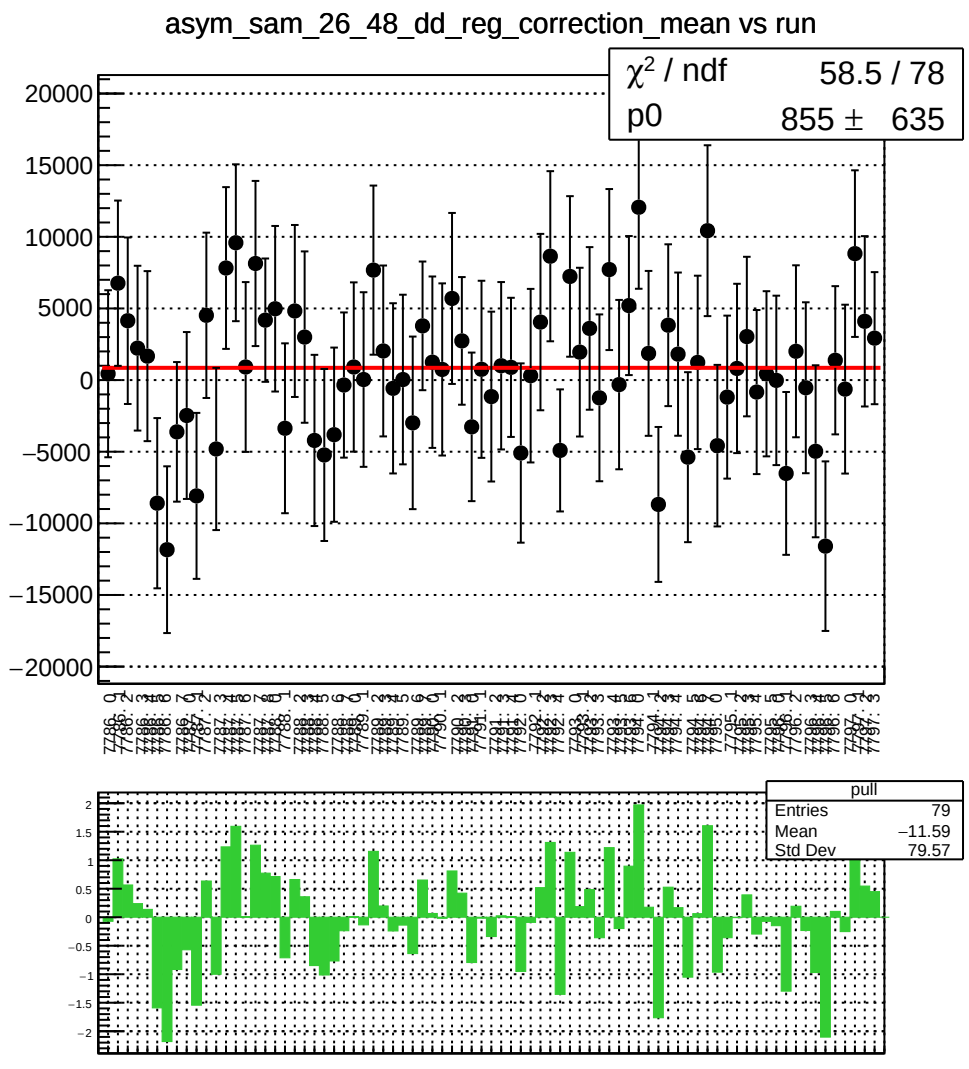

pull1D
Entries 79
Mean −0.03178
Std Dev 0.9098

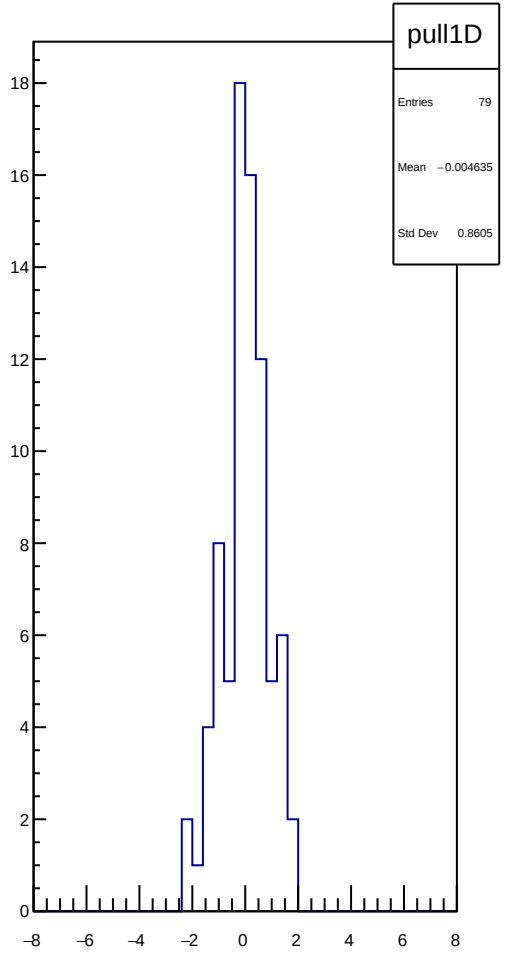

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.008e+05 / 78
p0 1.536e−10 ± 1.682e−13
1.2
1
0.8
0.6
0.4
0.2

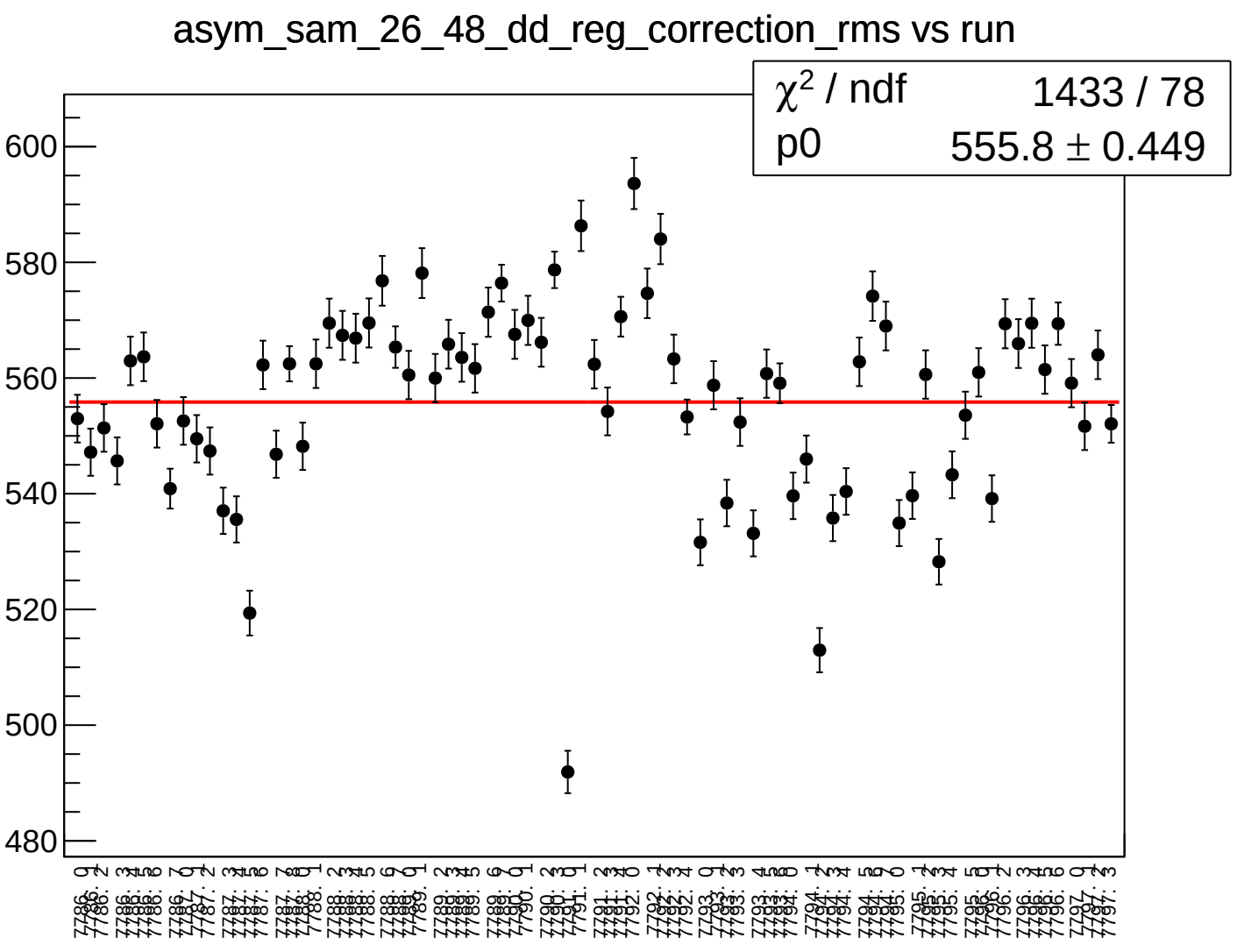

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.75 / 78
p0 88.7 ± 96.91
pull
Entries 79
Mean 222.1
Std Dev 0

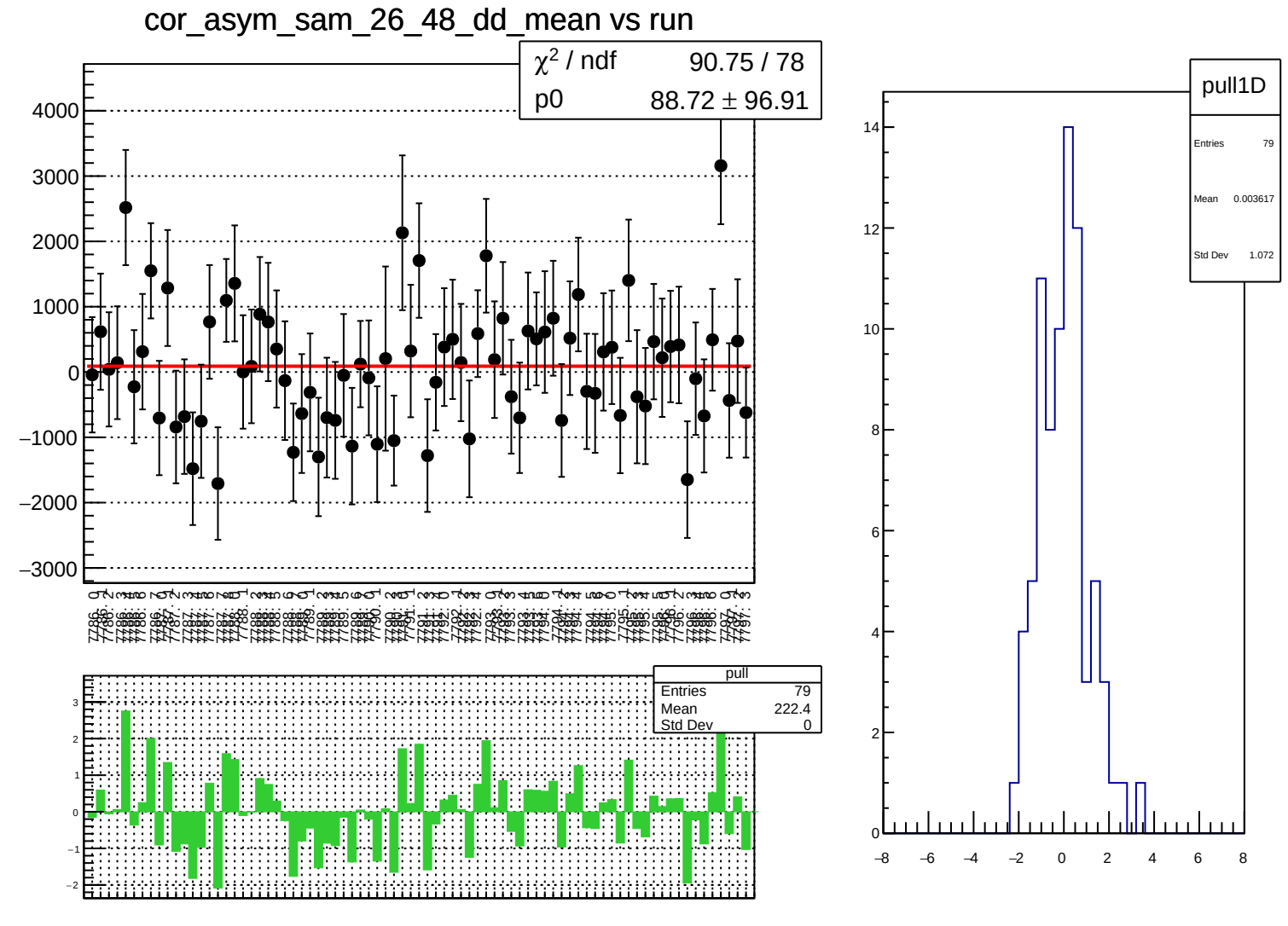

pull1D
Entries 79
Mean 0.00362
Std Dev 1.072

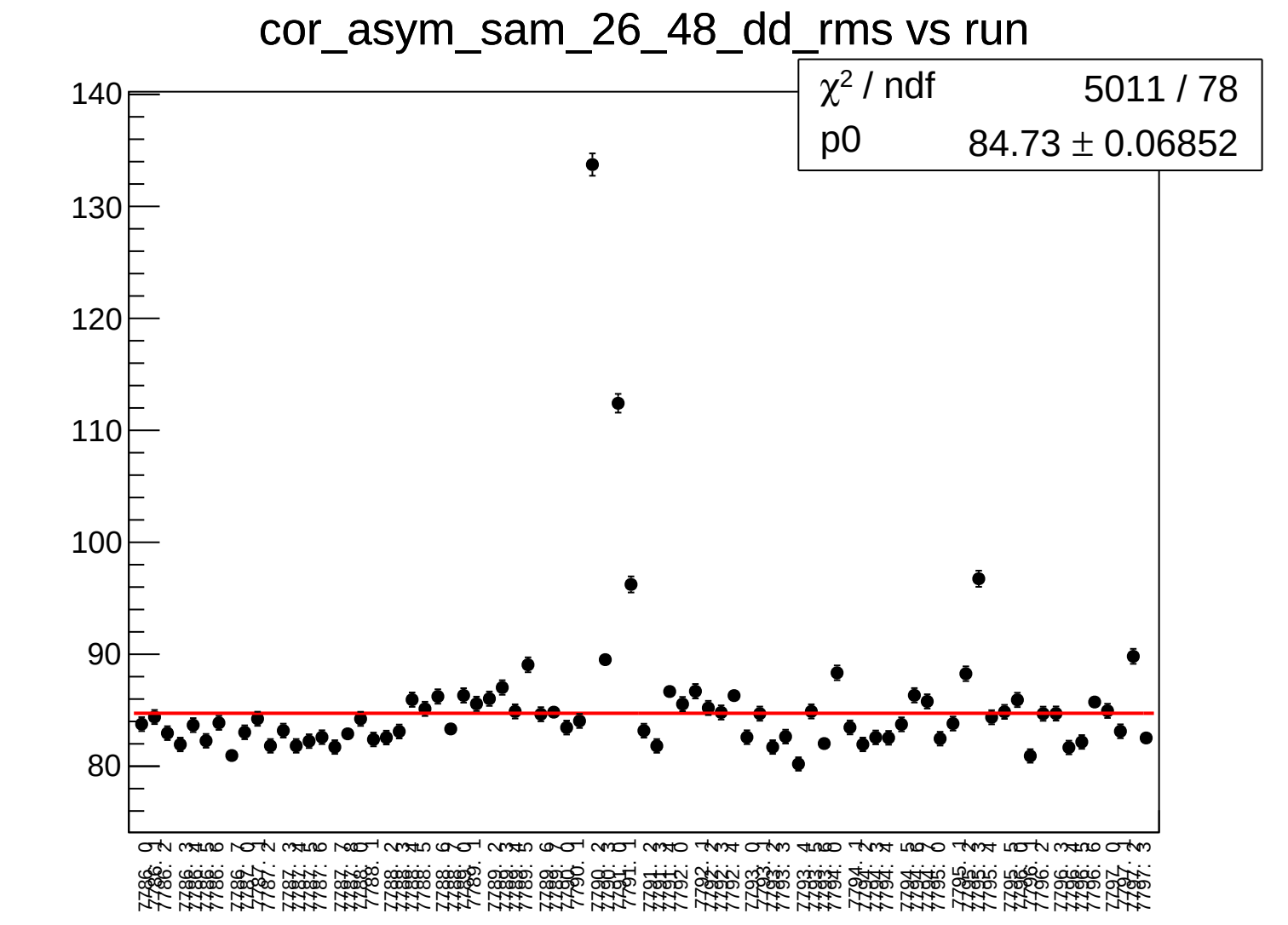

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5011 / 78
p0 84.73 ± 0.06852
140
130
120
110
100
90
80

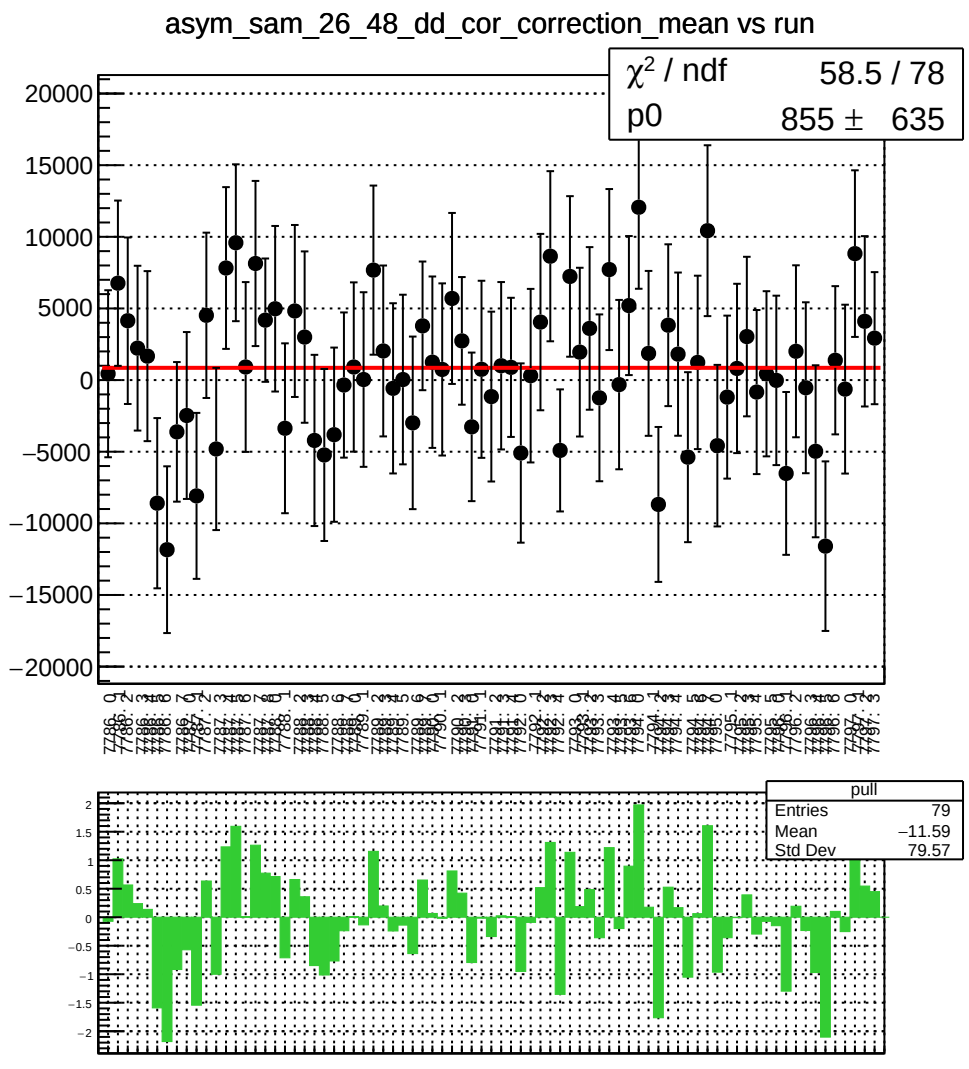

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 58.5 / 78
p0 855 ± 635
pull
Entries 79
Mean −11.59
Std Dev 79.57

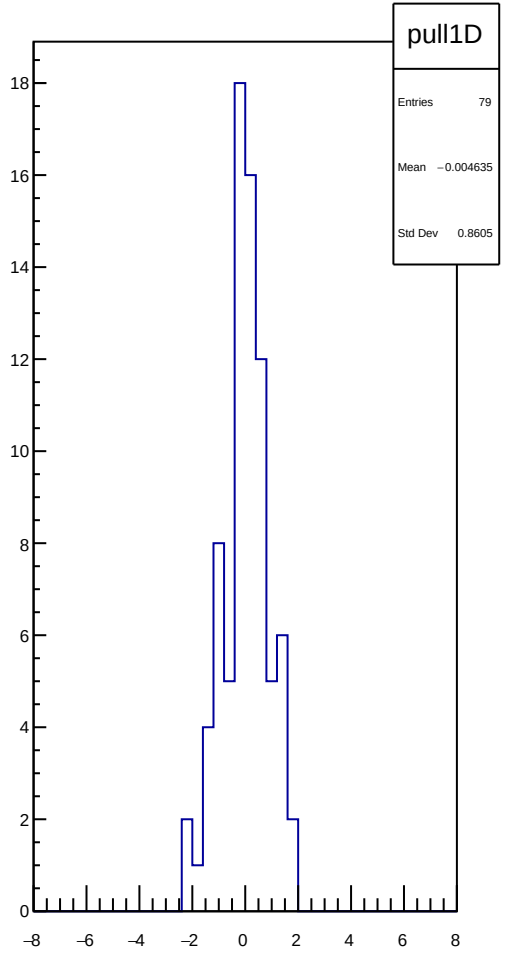

pull1D
Entries 79
Mean −0.004635
Std Dev 0.8605

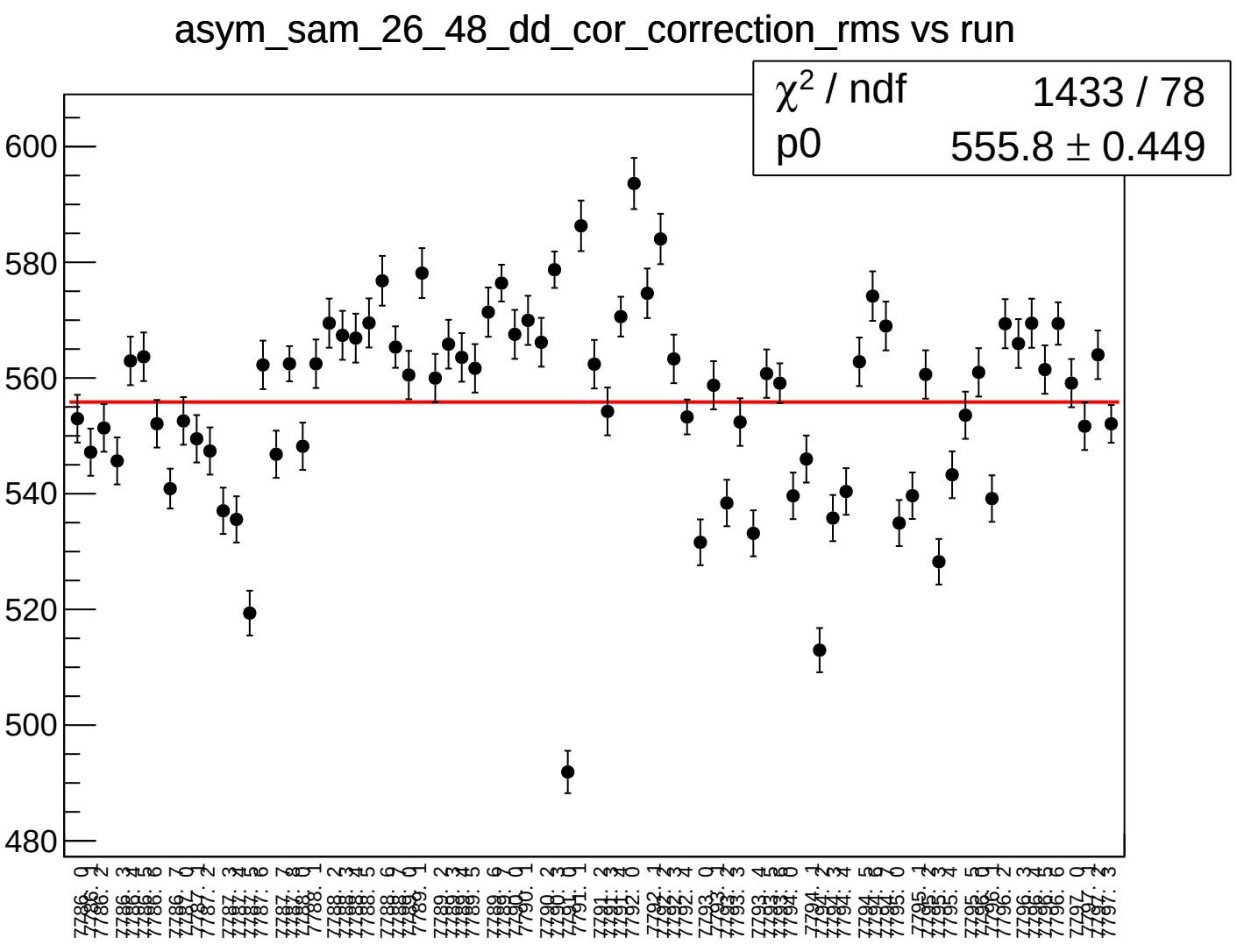

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1433 / 78
p0 555.8 ± 0.449
600
580
560
540
520
500
480

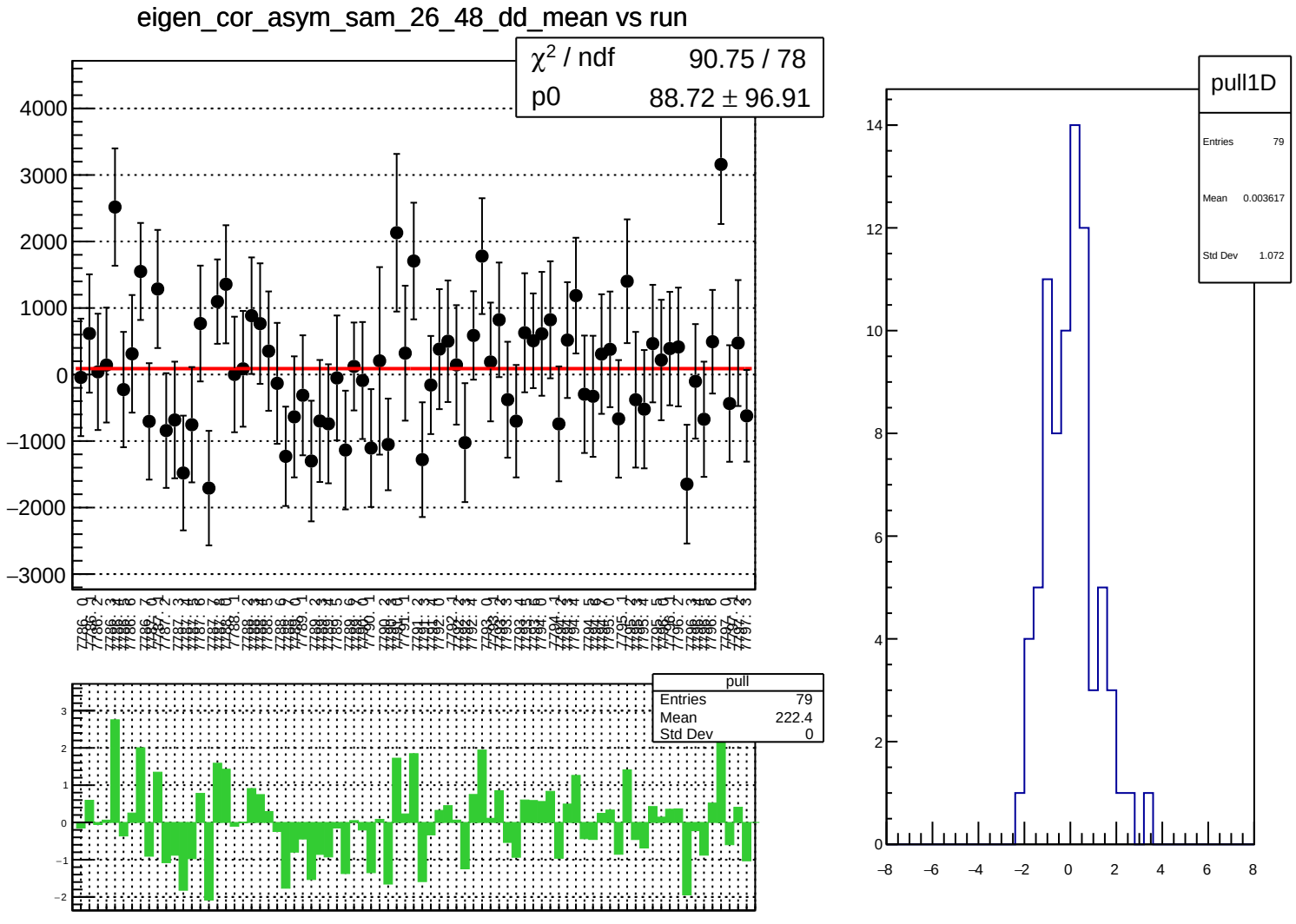

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.75 / 78
p0 88.72 ± 96.91
pull
Entries 79
Mean 222.4
Std Dev 0
pull1D
Entries 79
Mean 0.003617
Std Dev 1.072

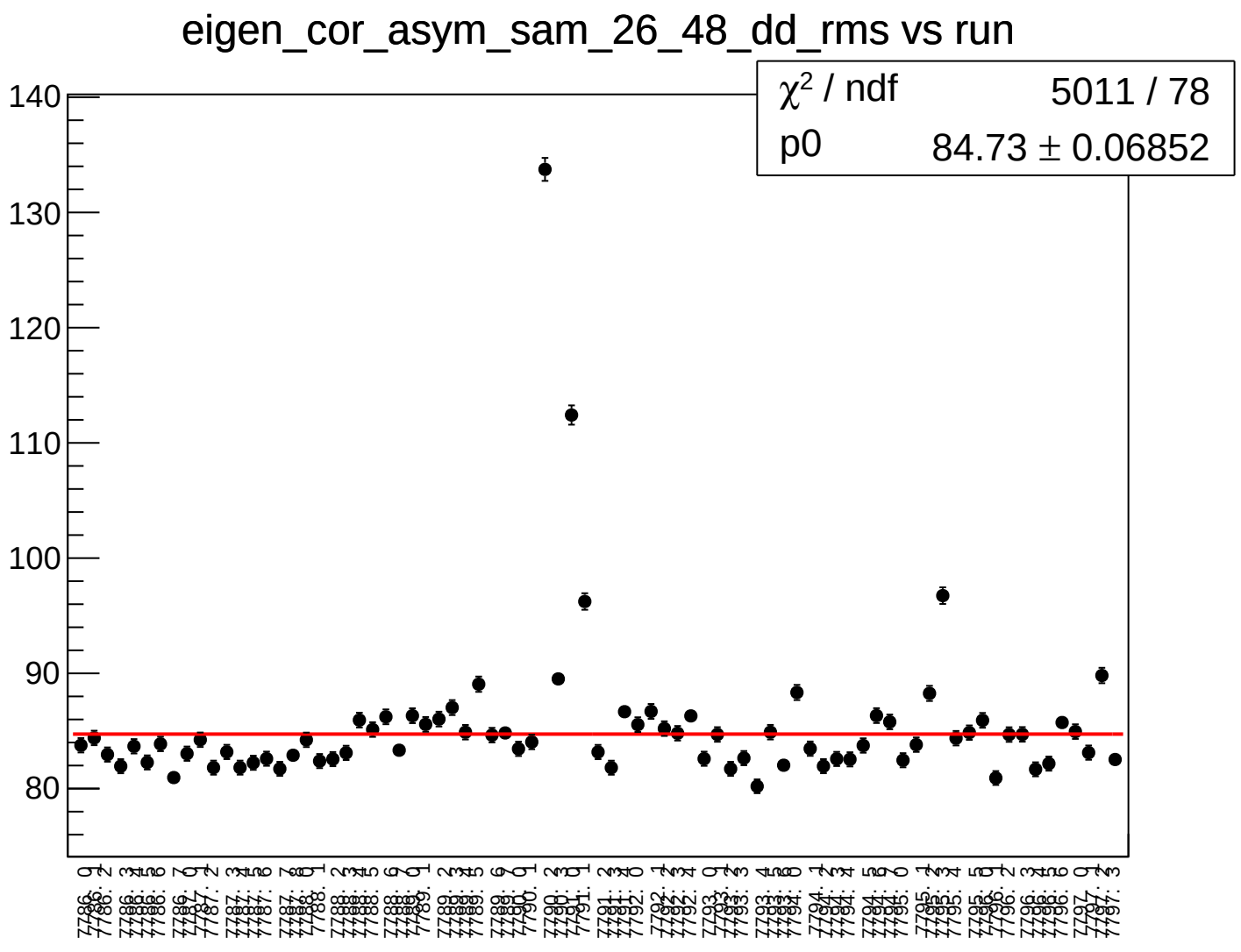

cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5011 / 78
p0 84.73 ± 0.06852
140
130
120
110
100
90
80

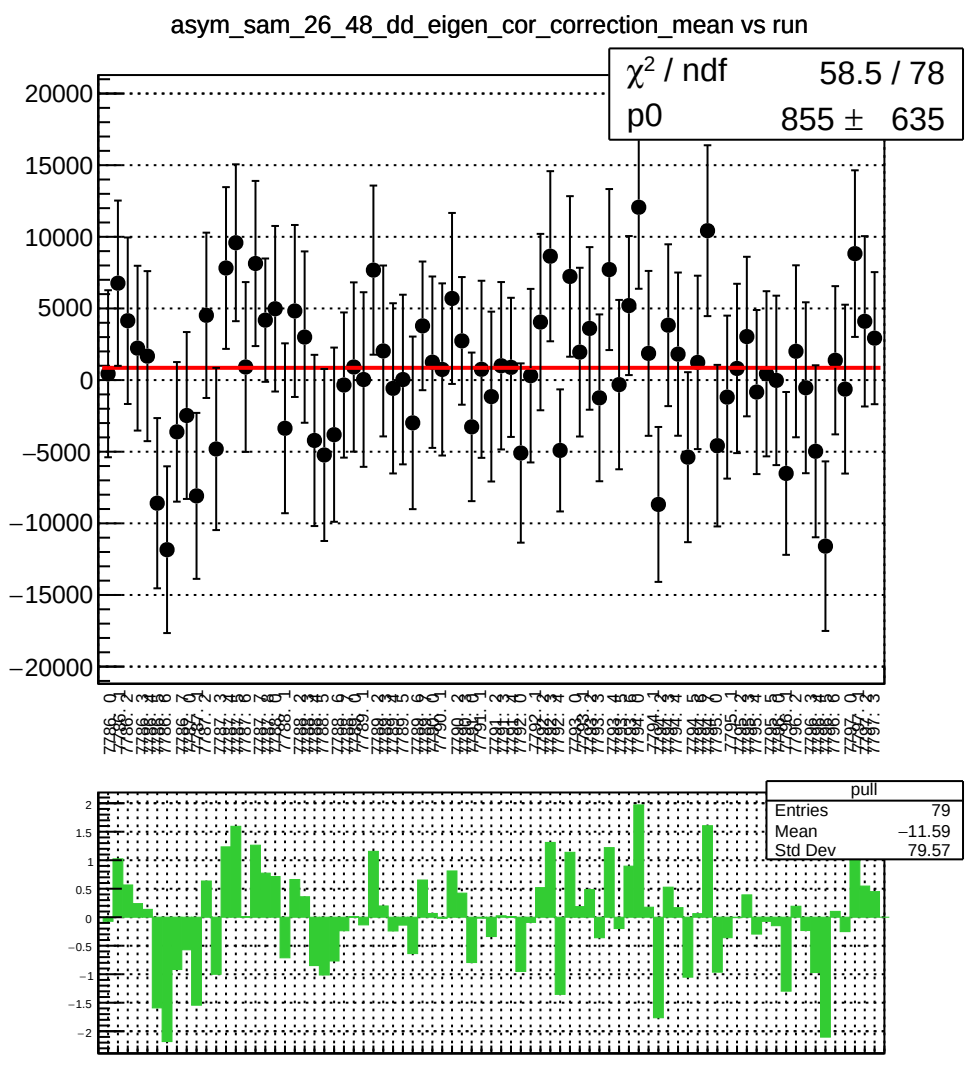

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 58.5 / 78
p0 855 ± 635
pull
Entries 79
Mean −11.59
Std Dev 79.57

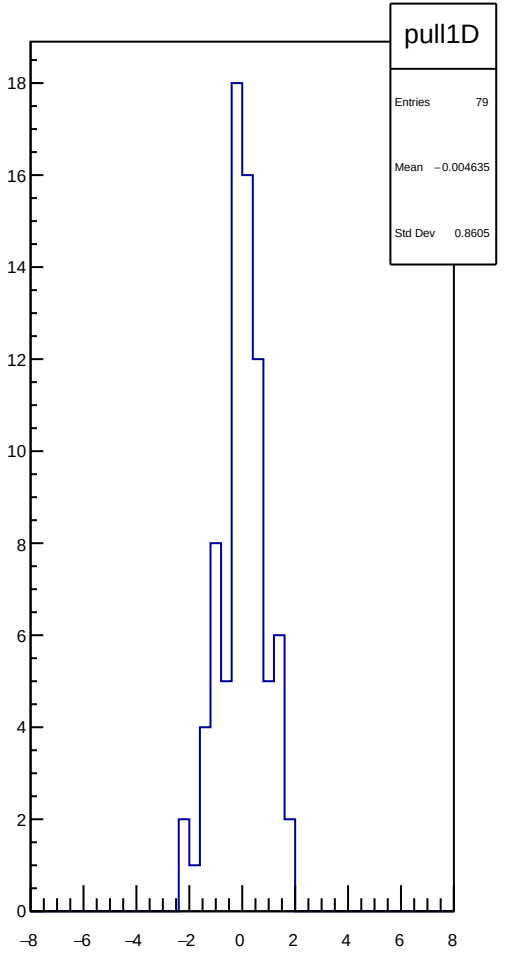

pull1D
Entries 79
Mean −0.004635
Std Dev 0.8605

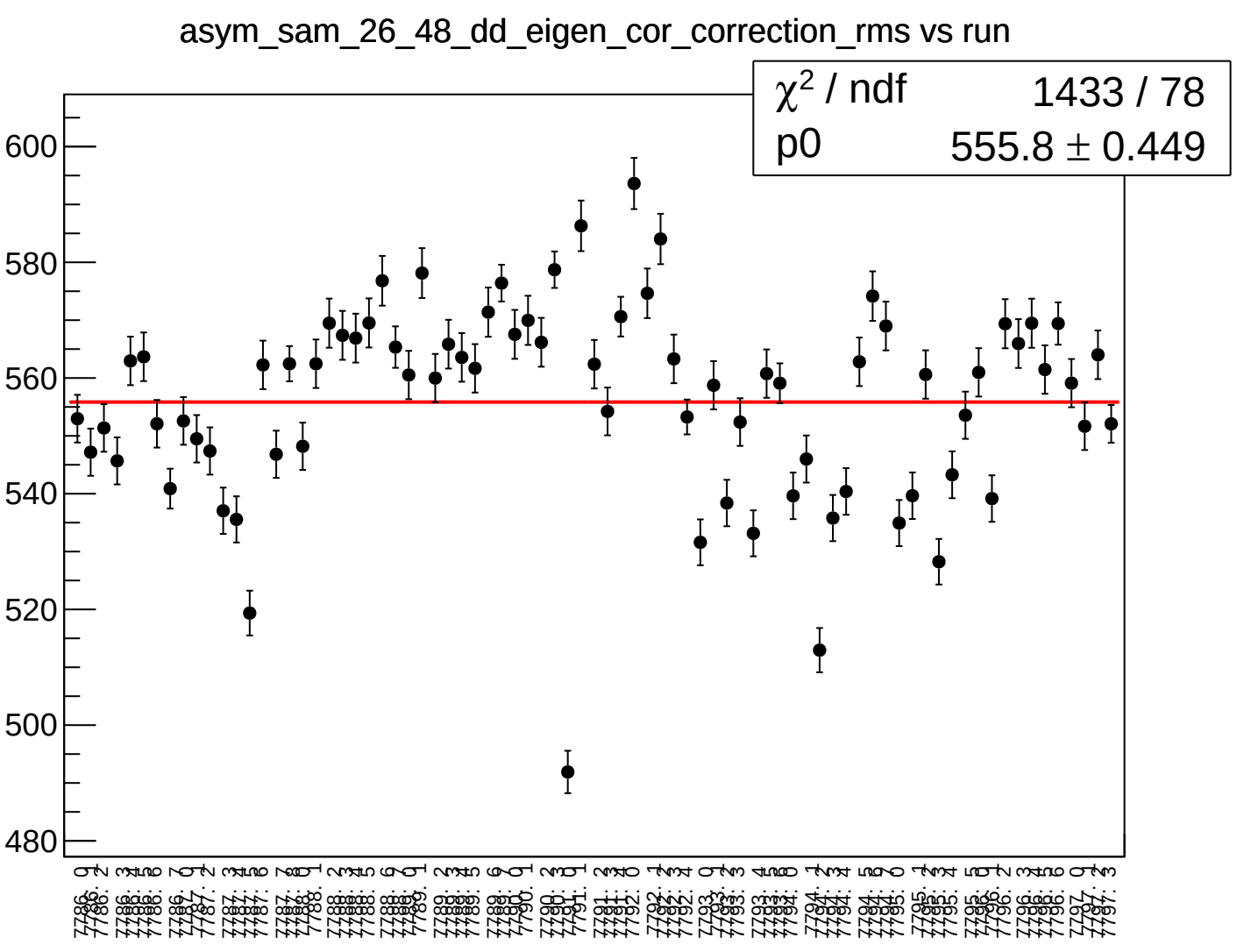

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1433 / 78
p0 555.8 ± 0.449
600
580
560
540
520
500
480

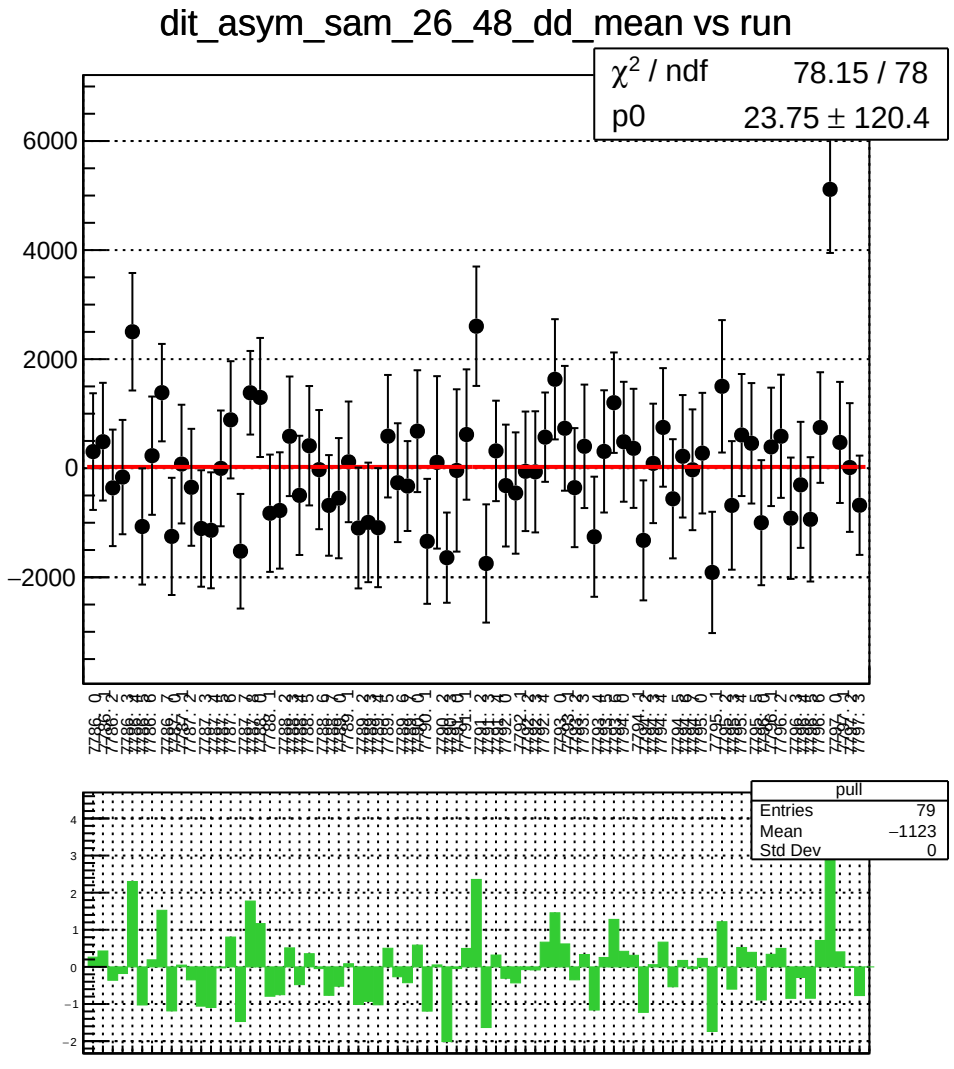

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.75 / 78
p0 88.72 ± 96.91
pull
Entries 79
Mean 222.4
Std Dev 0
pull1D
Entries 79
Mean 0.003617
Std Dev 1.072

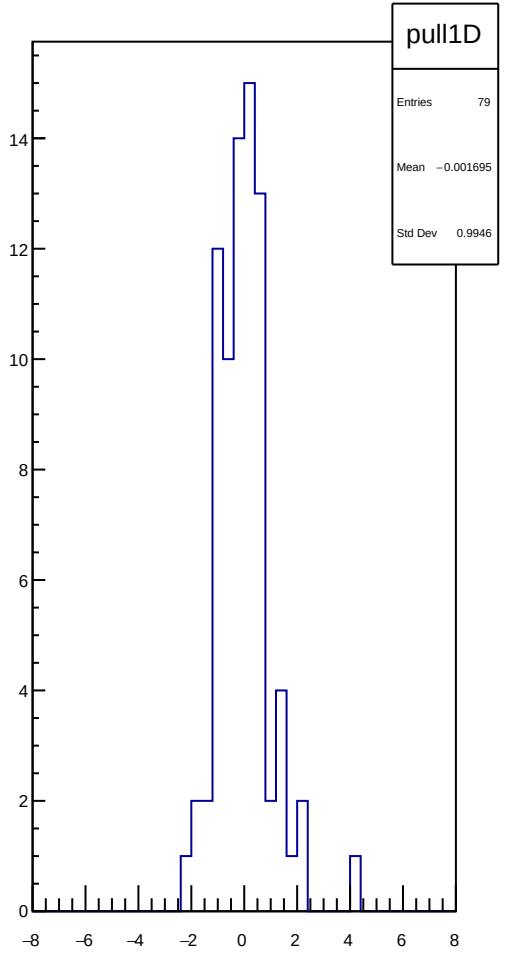

eigen_cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5011 / 78
p0 84.73 ± 0.06852
140
130
120
110
100
90
80

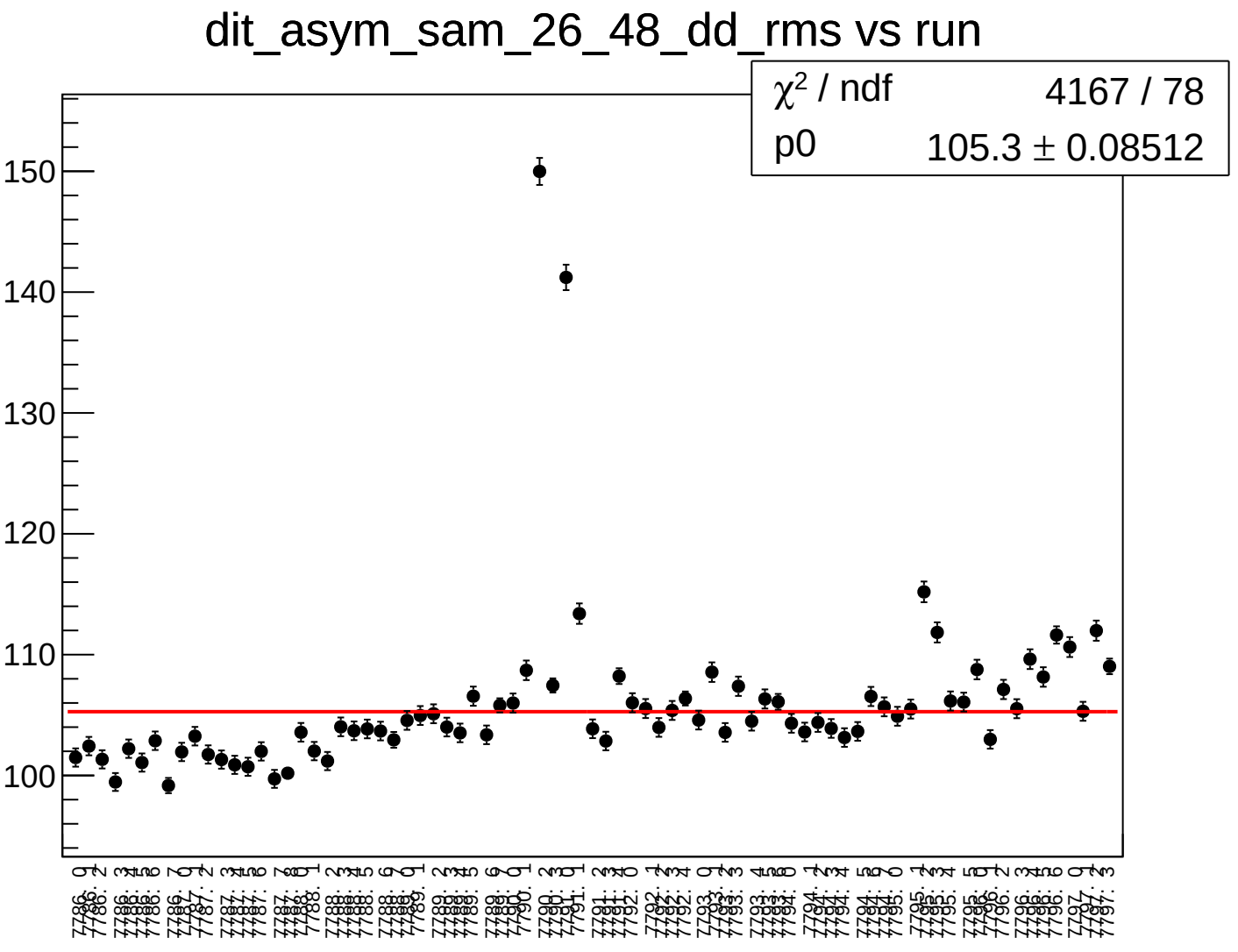

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 58.5 / 78
p0 855 ± 635
pull
Entries 79
Mean −11.59
Std Dev 79.57

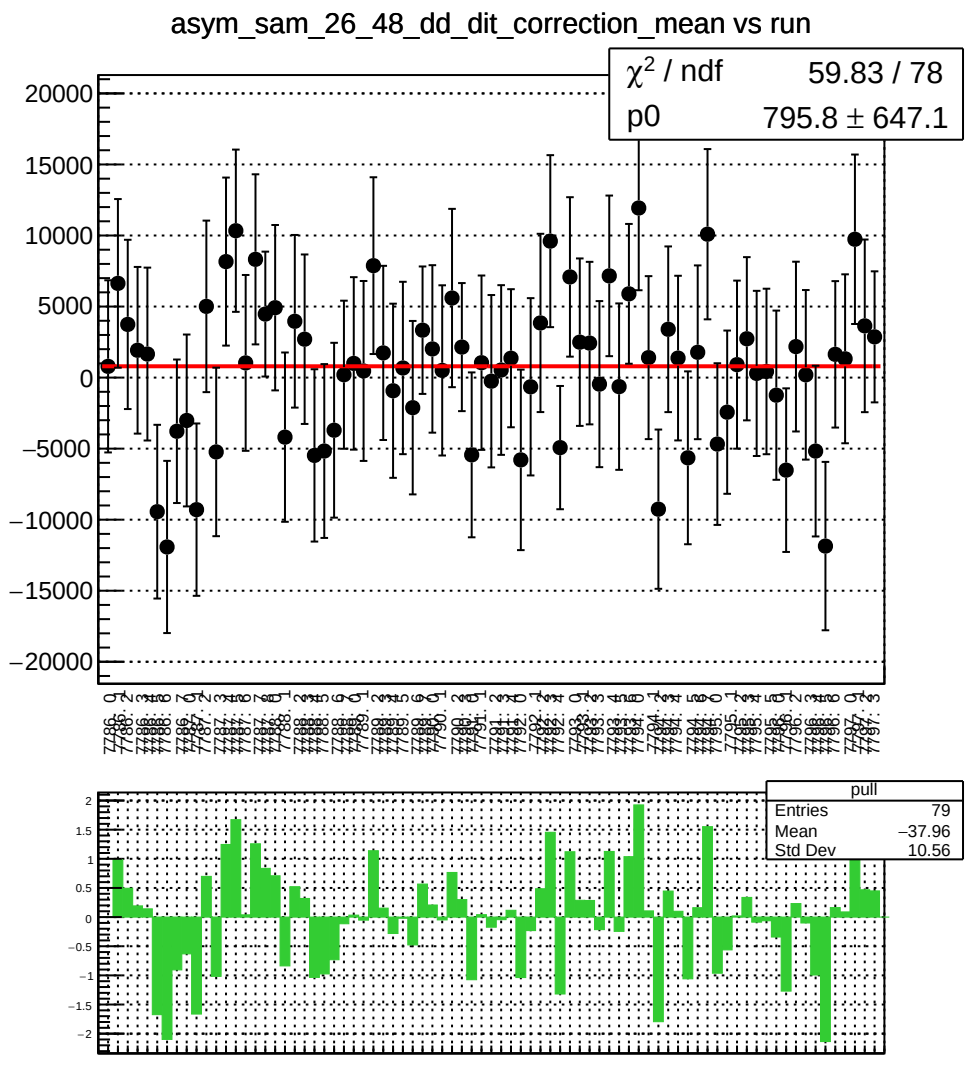

pull1D
Entries 79
Mean −0.004635
Std Dev 0.8605

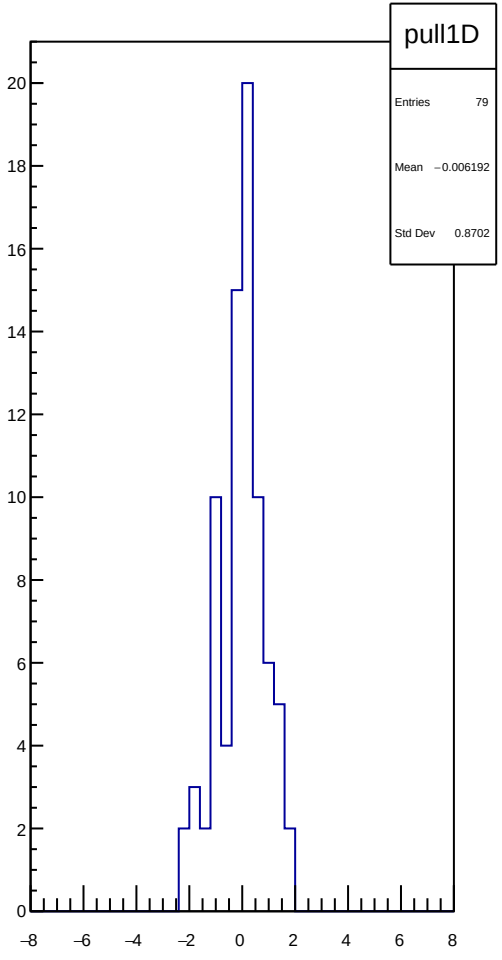

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1433 / 78
p0 555.8 ± 0.449
600
580
560
540
520
500
480

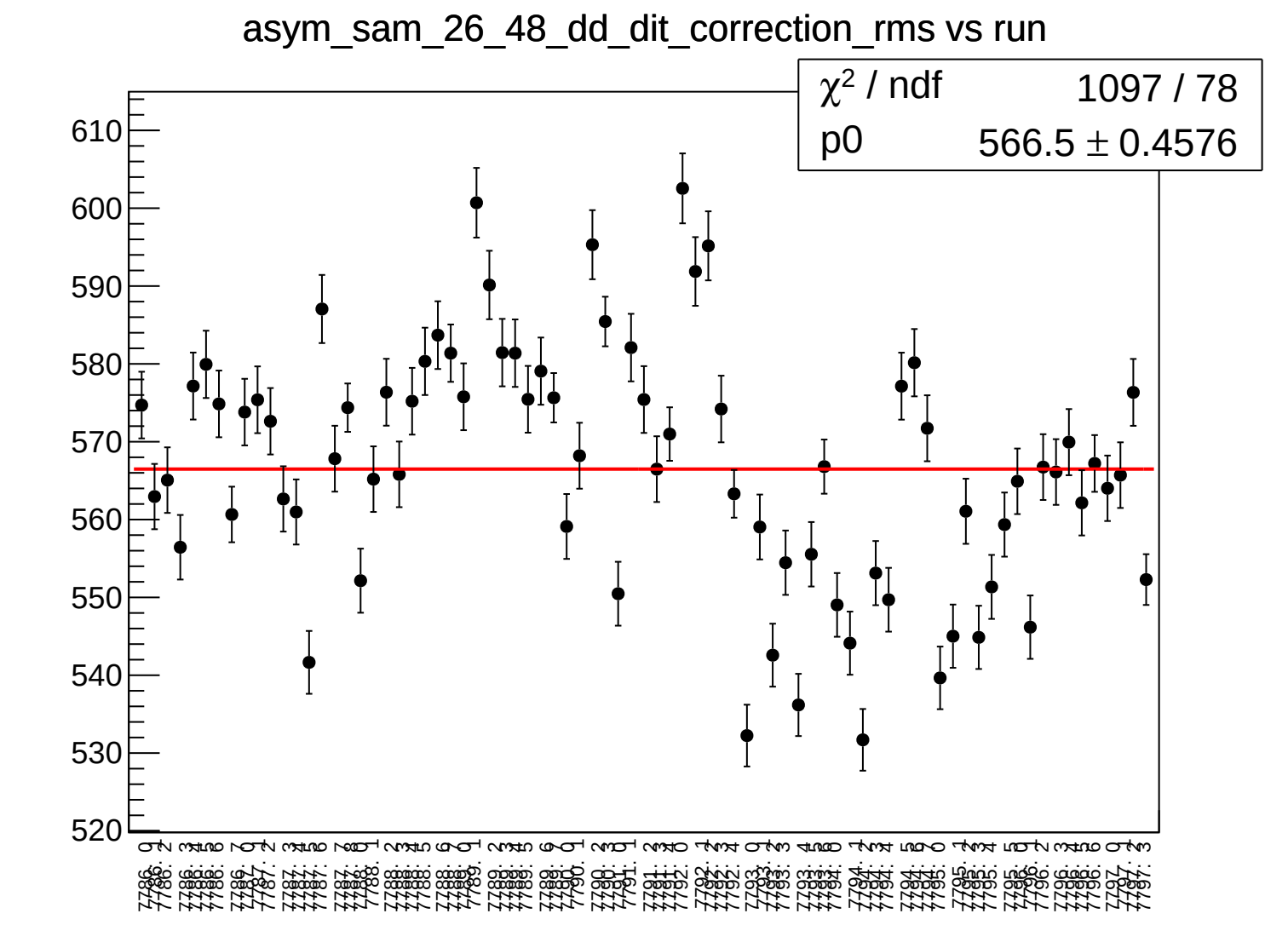

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 78.15 / 78
p0 23.75 ± 120.4
6000
4000
2000
0
−2000
pull
Entries 79
Mean −1123
Std Dev 0
4
3
2
1
0
−1
−2

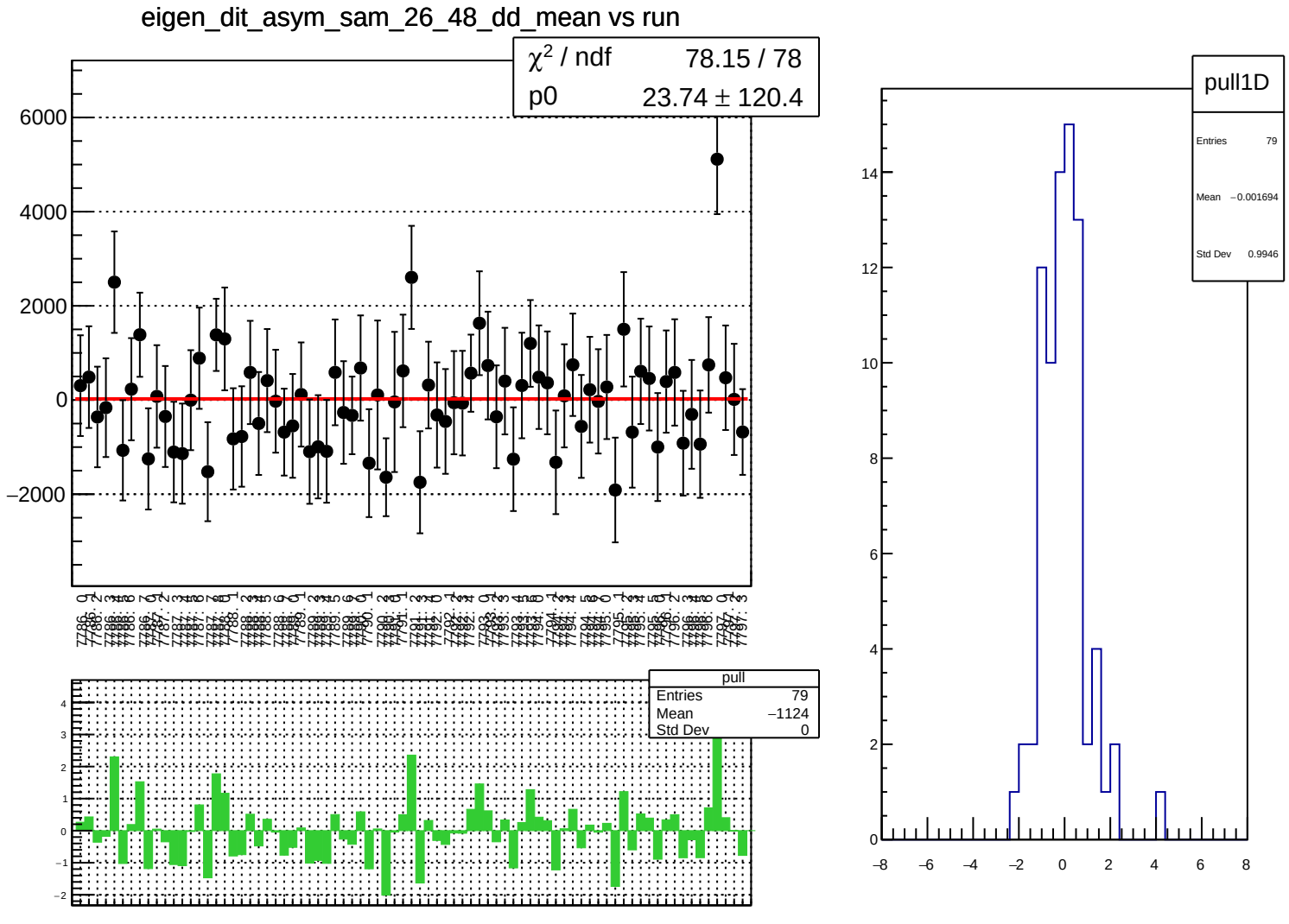

pull1D
Entries 79
Mean −0.001695
Std Dev 0.9946
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

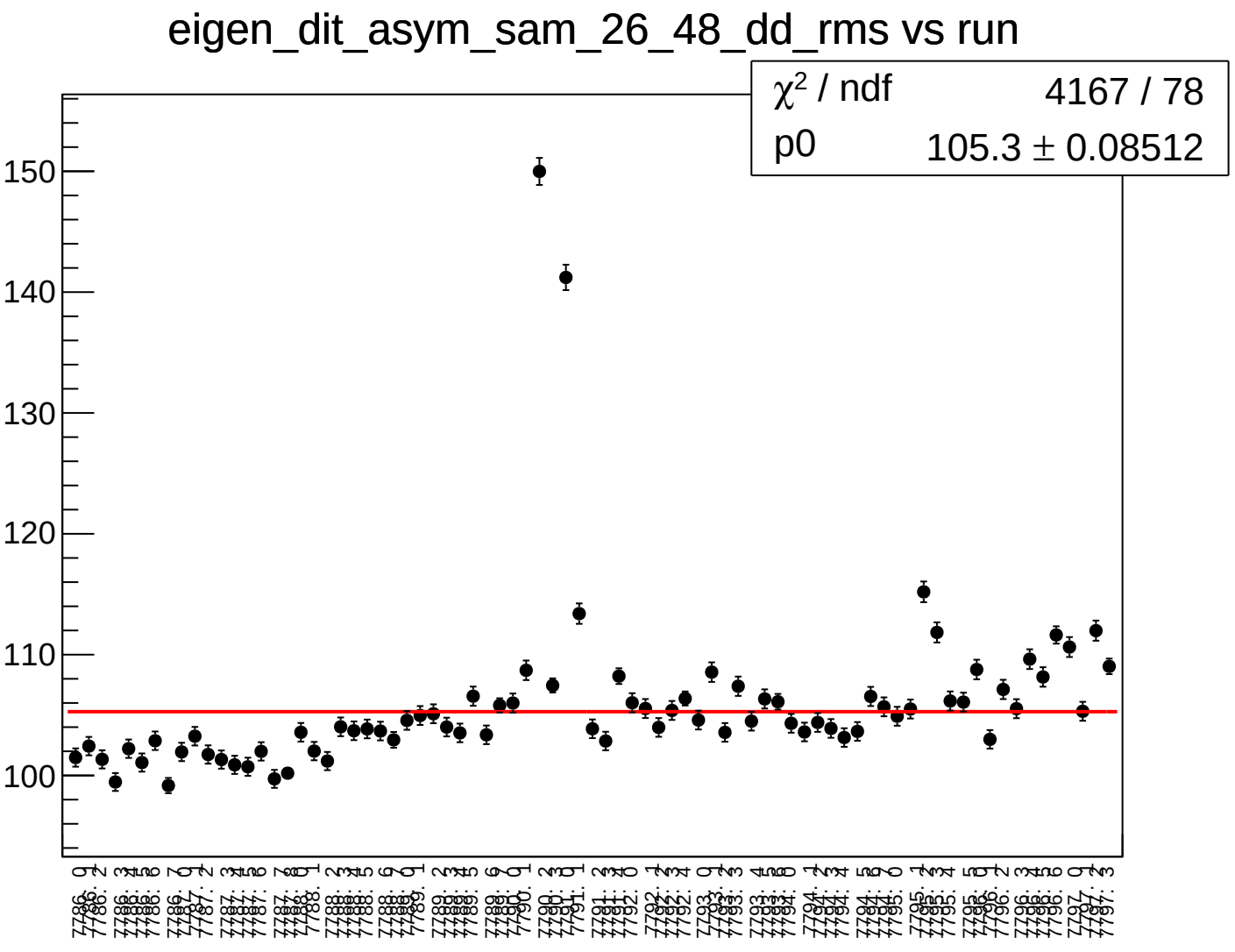

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 4167 / 78
p0 105.3 ± 0.08512
150
140
130
120
110
100

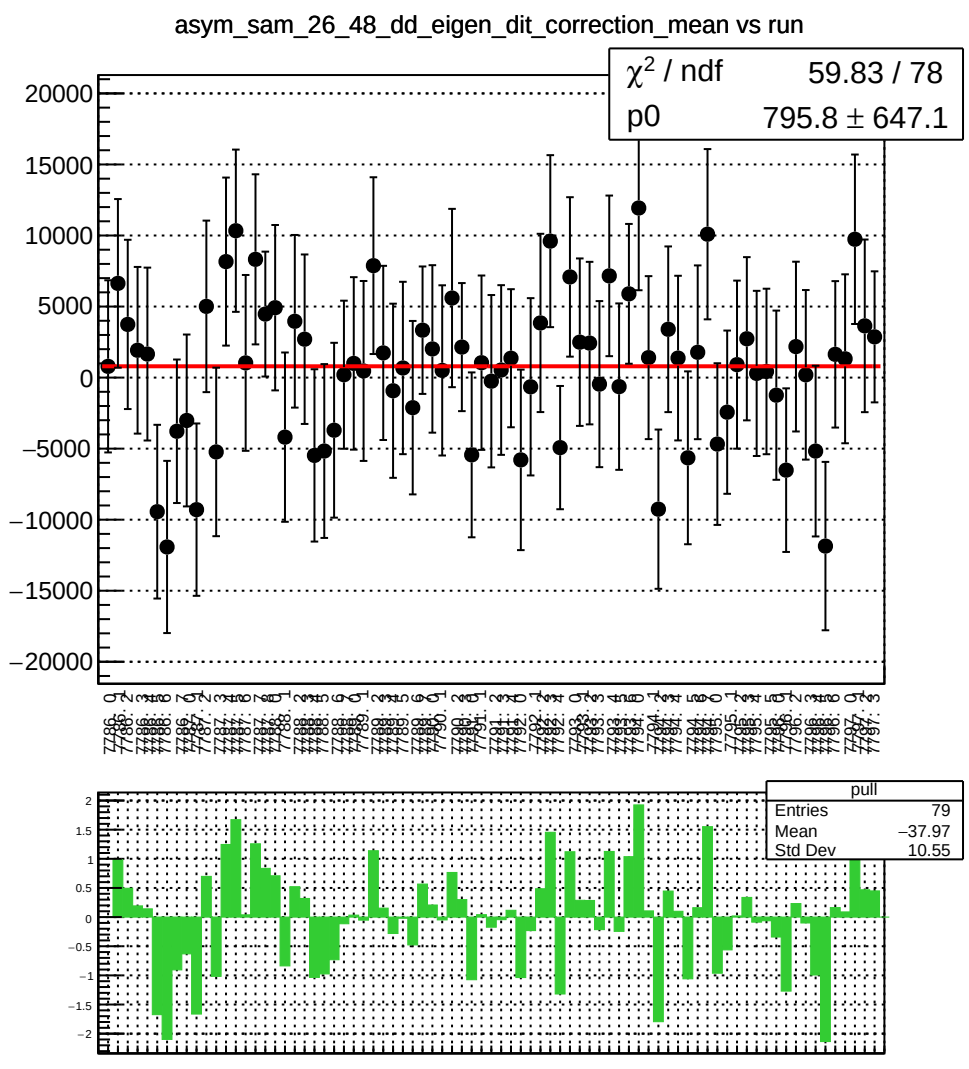

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 59.83 / 78
p0 795.8 ± 647.1
pull
Entries 79
Mean −37.96
Std Dev 10.56

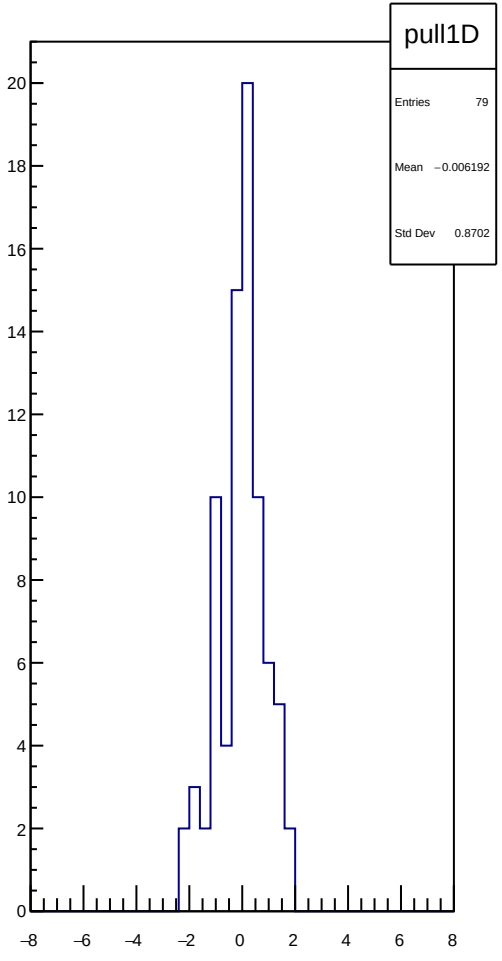

pull1D
Entries 79
Mean −0.006192
Std Dev 0.8702

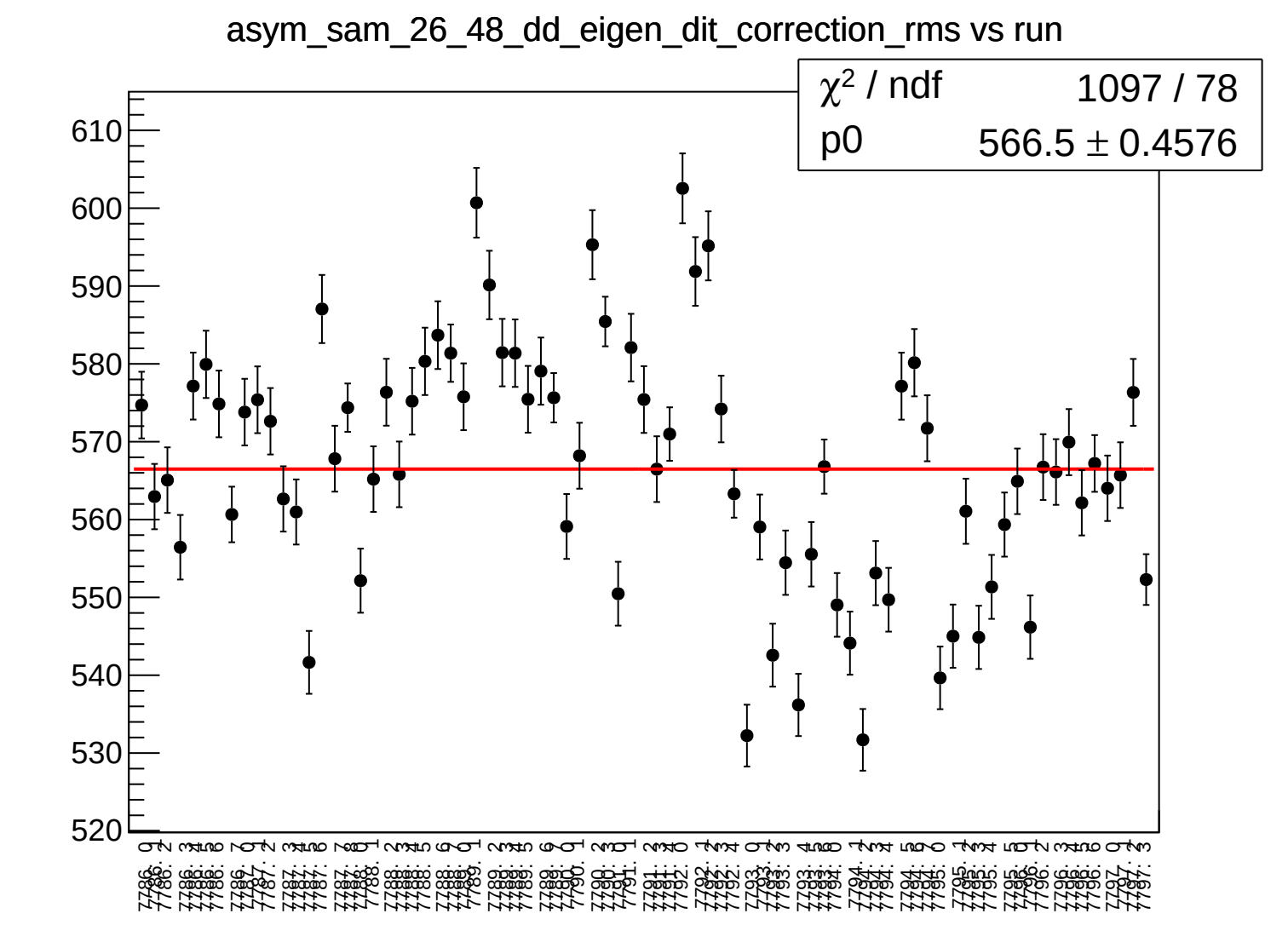

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1097 / 78
p0 566.5 ± 0.4576
610
600
590
580
570
560
550
540
530
520

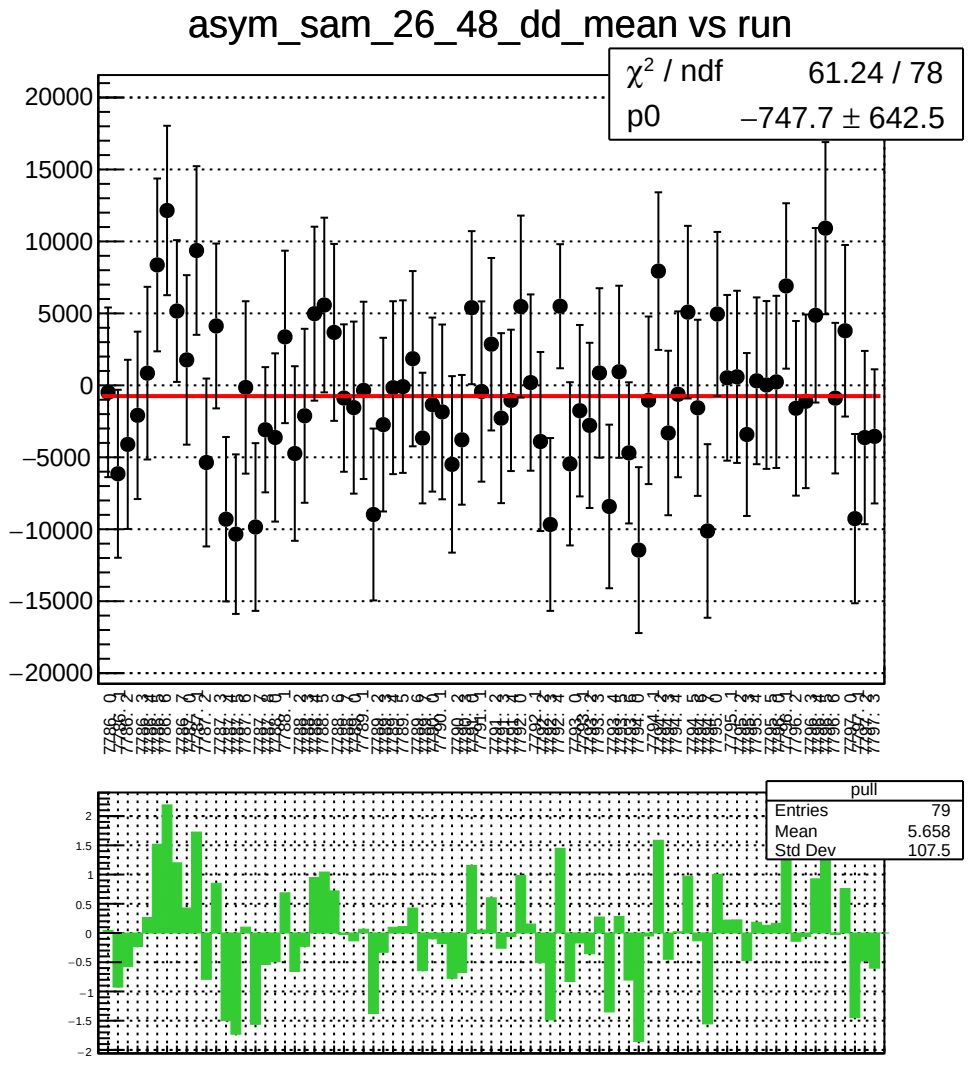

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 78.15 / 78
p0 23.74 ± 120.4
6000
4000
2000
0
−2000
pull
Entries 79
Mean −1124
Std Dev 0
pull1D
Entries 79
Mean −0.001694
Std Dev 0.9946

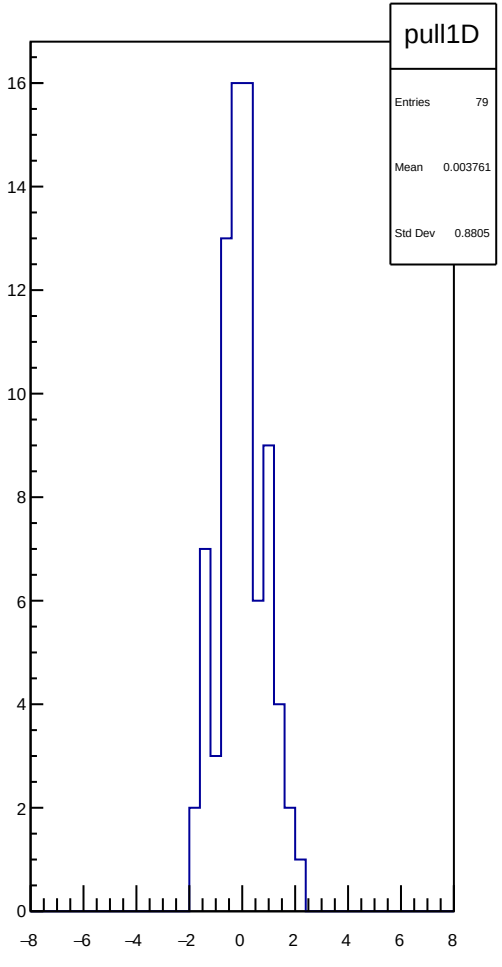

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 4167 / 78
p0 105.3 ± 0.08512
150
140
130
120
110
100

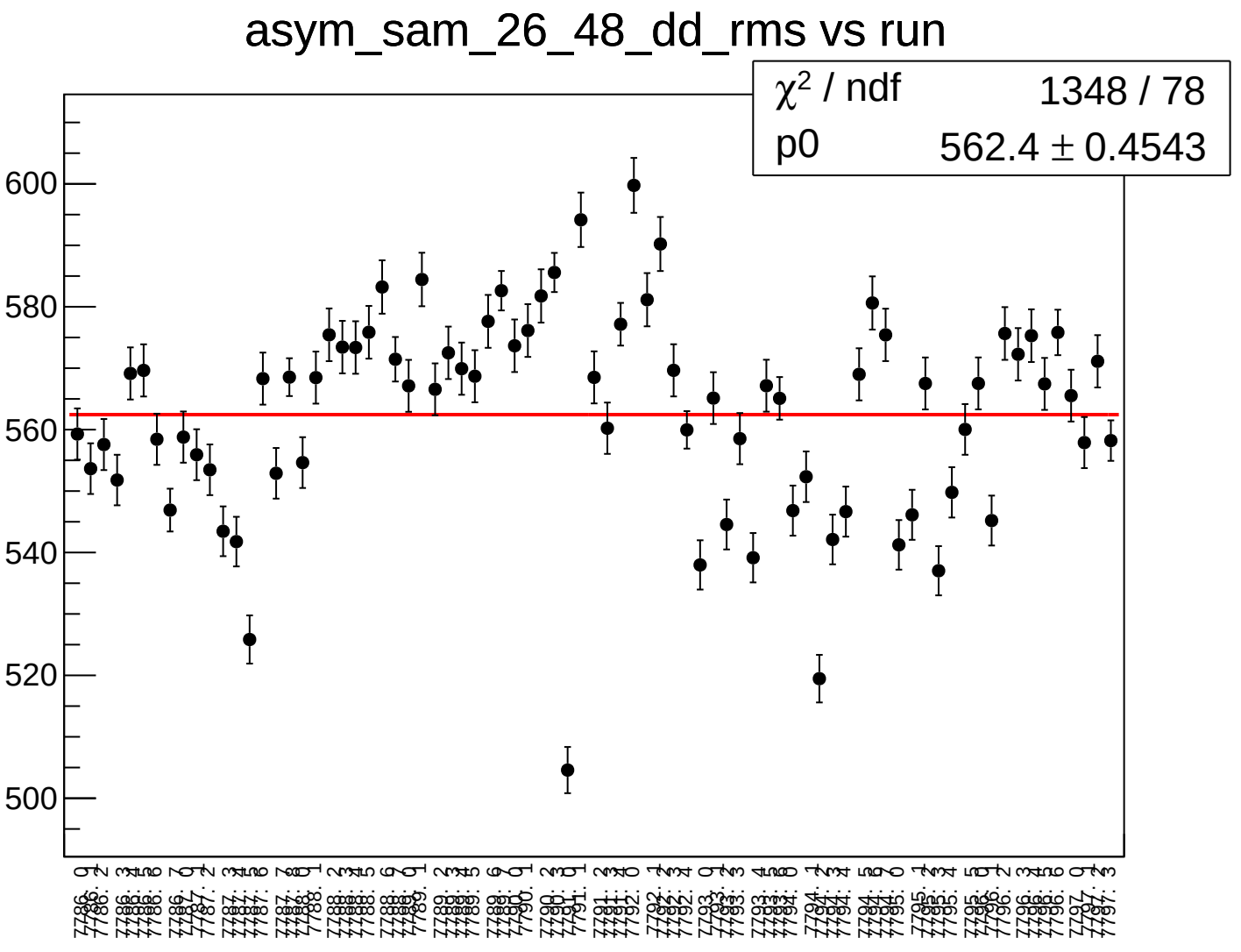

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 59.83 / 78
p0 795.8 ± 647.1
pull
Entries 79
Mean −37.97
Std Dev 10.55

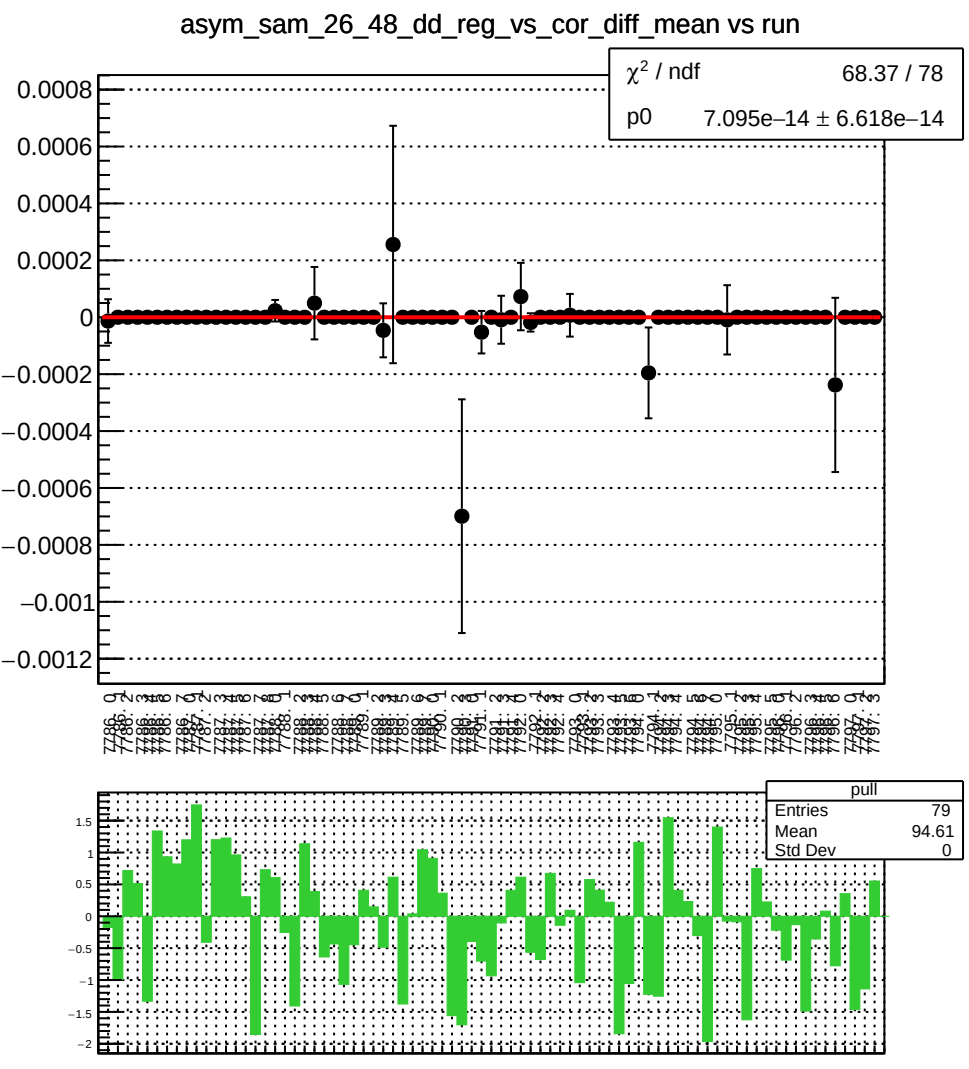

pull1D
Entries 79
Mean −0.006192
Std Dev 0.8702

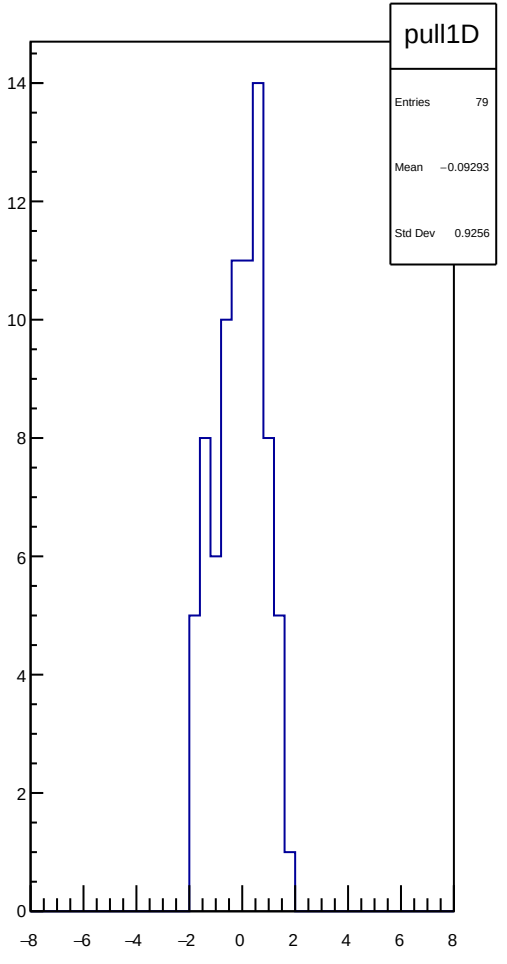

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1097 / 78
p0 566.5 ± 0.4576
610
600
590
580
570
560
550
540
530
520

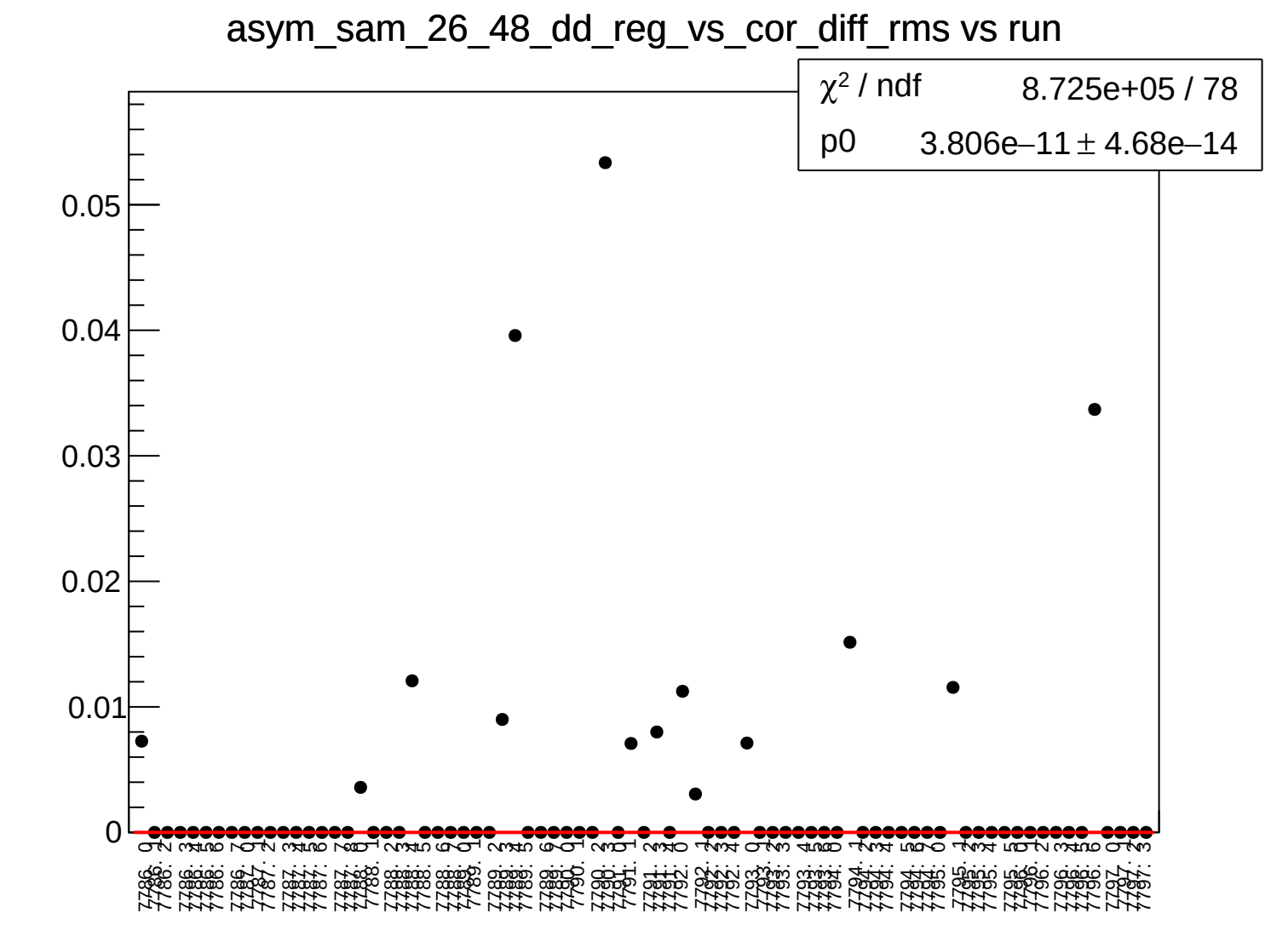

asym_sam_26_48_dd_mean vs run
χ² / ndf 61.24 / 78
p0 −747.7 ± 642.5
pull
Entries 79
Mean 5.658
Std Dev 107.5

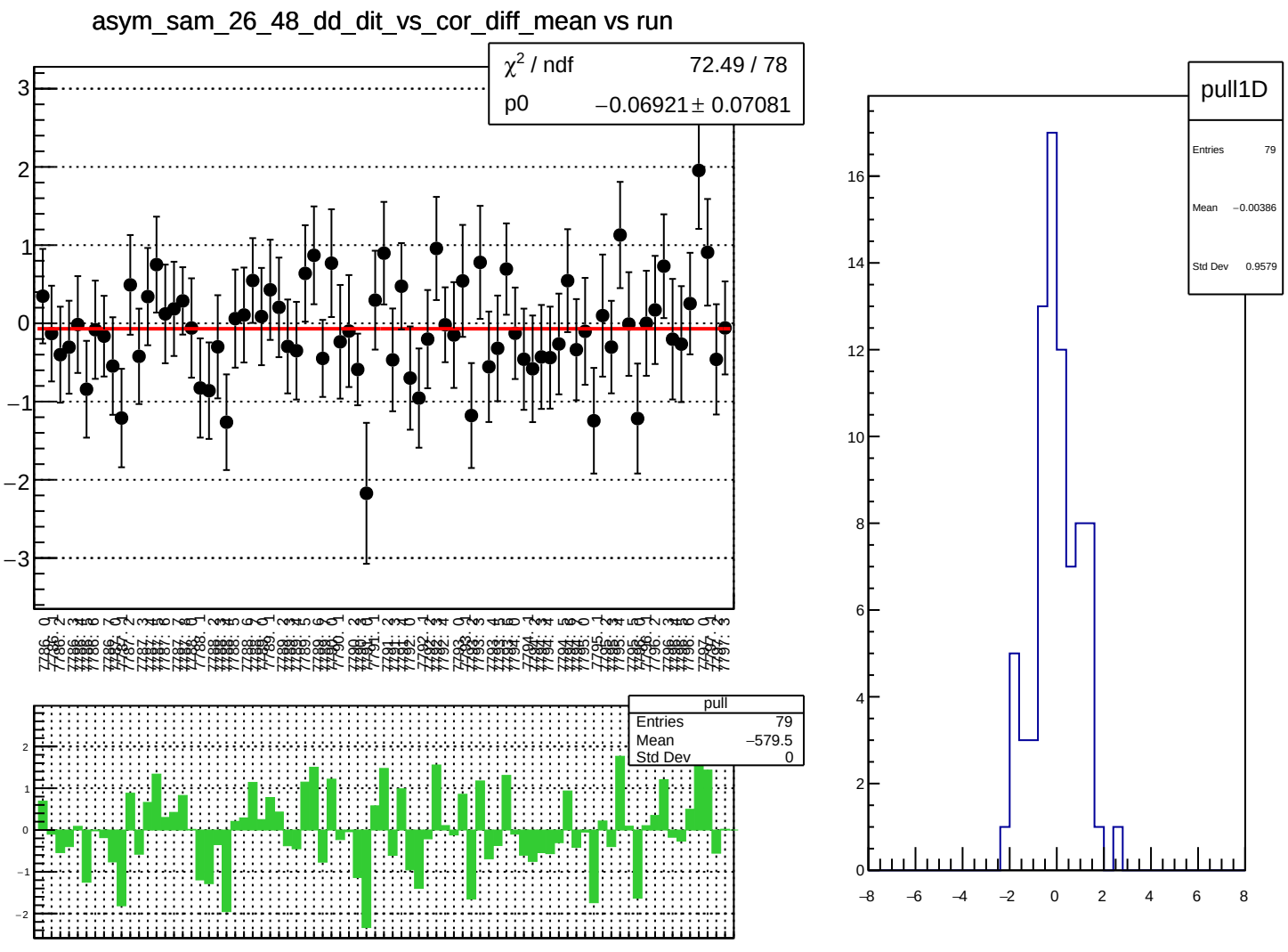

pull1D
Entries 79
Mean 0.003761
Std Dev 0.8805

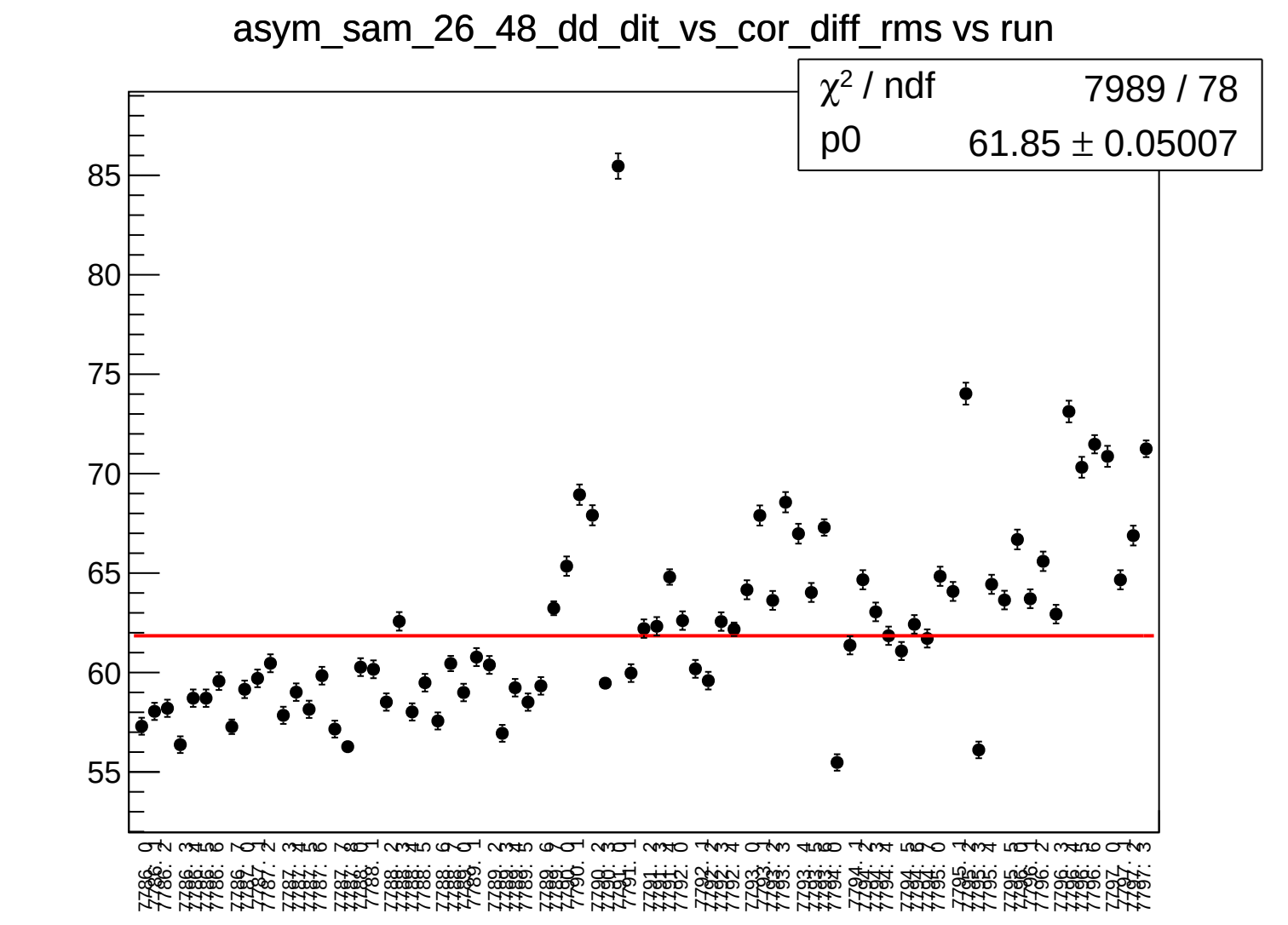

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1348 / 78
p0 562.4 ± 0.4543
600
580
560
540
520
500

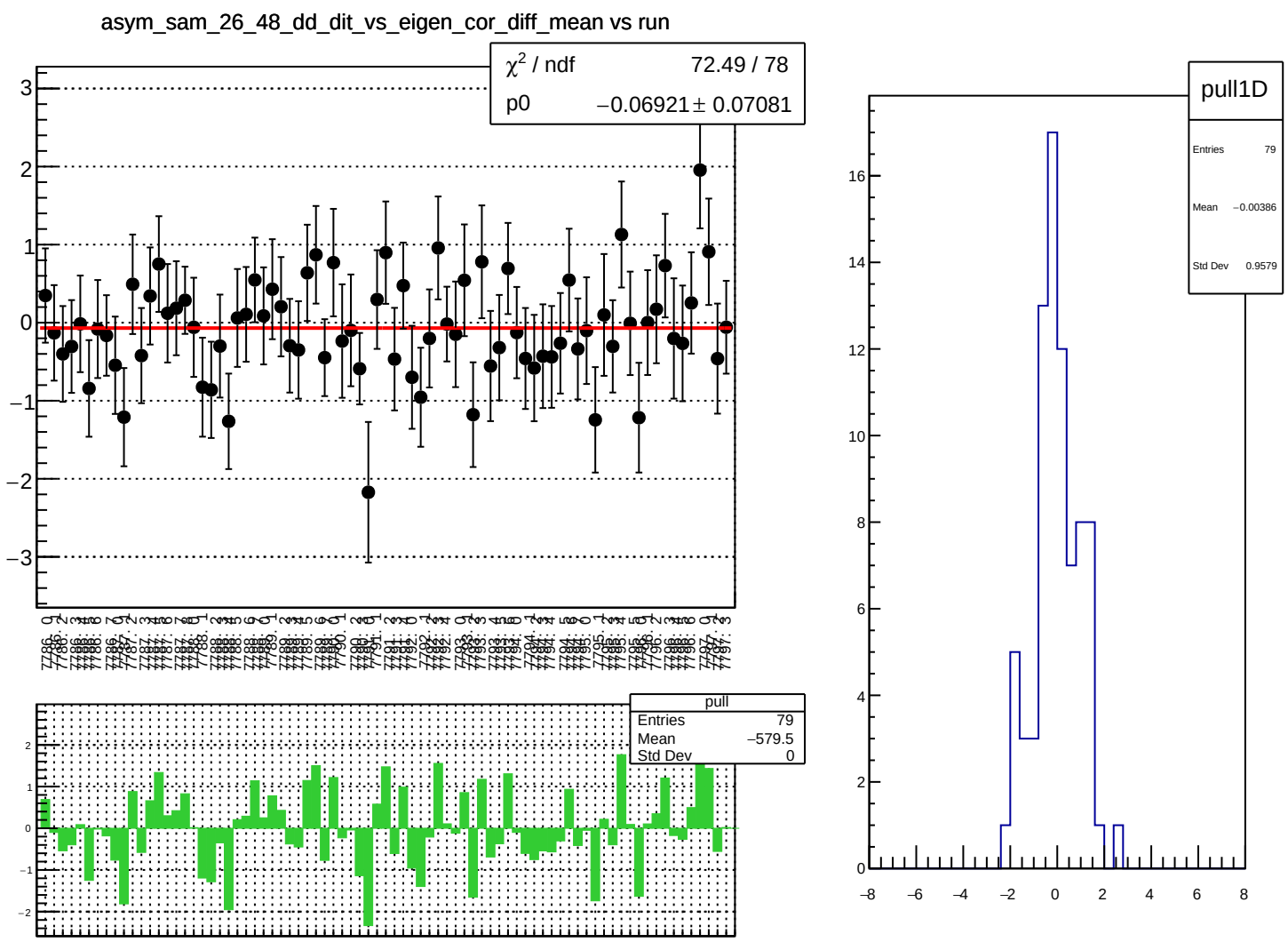

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.37 / 78
p0 7.095e−14 ± 6.618e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 79
Mean 94.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

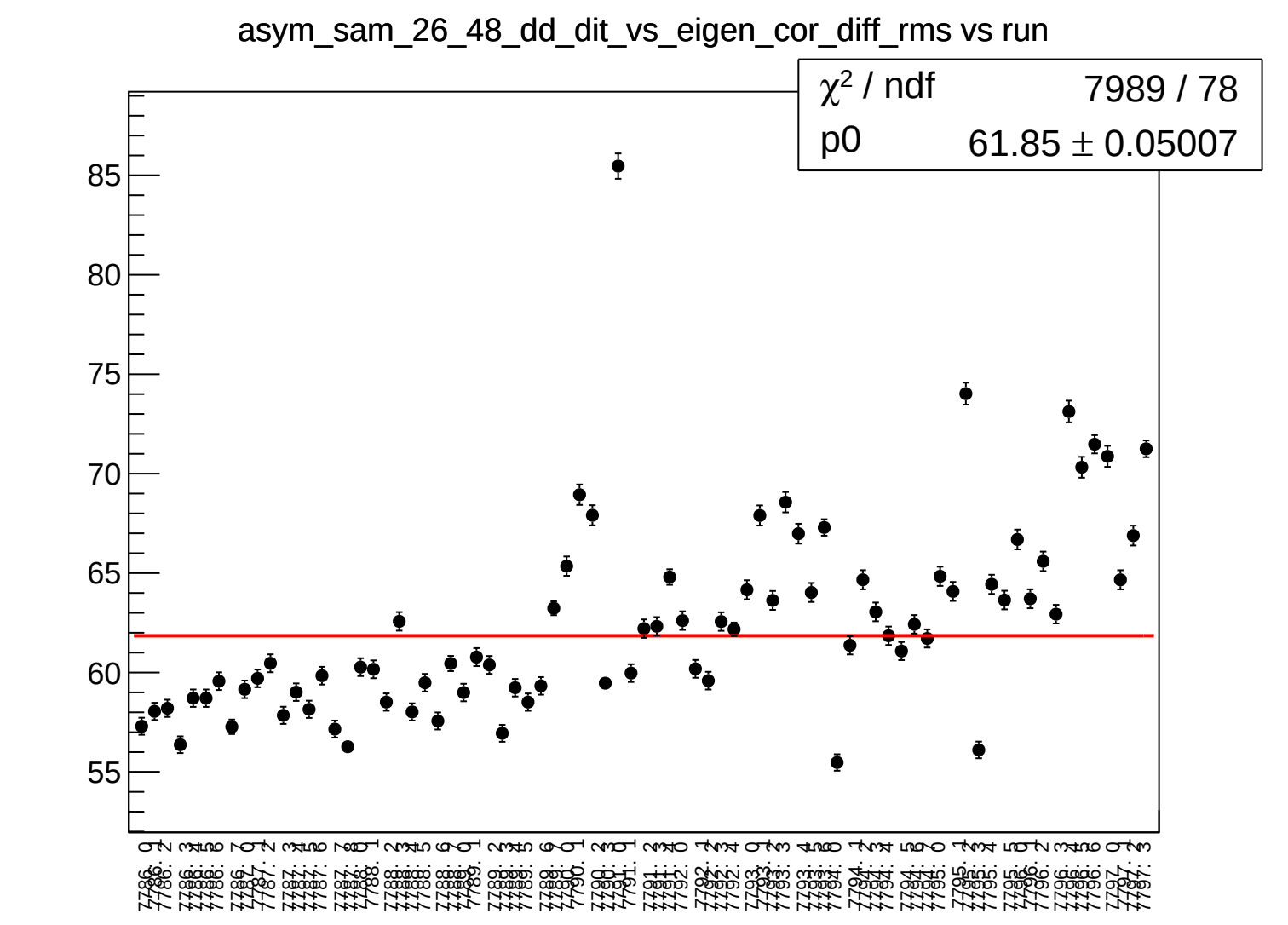

pull1D
Entries 79
Mean −0.09293
Std Dev 0.9256
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

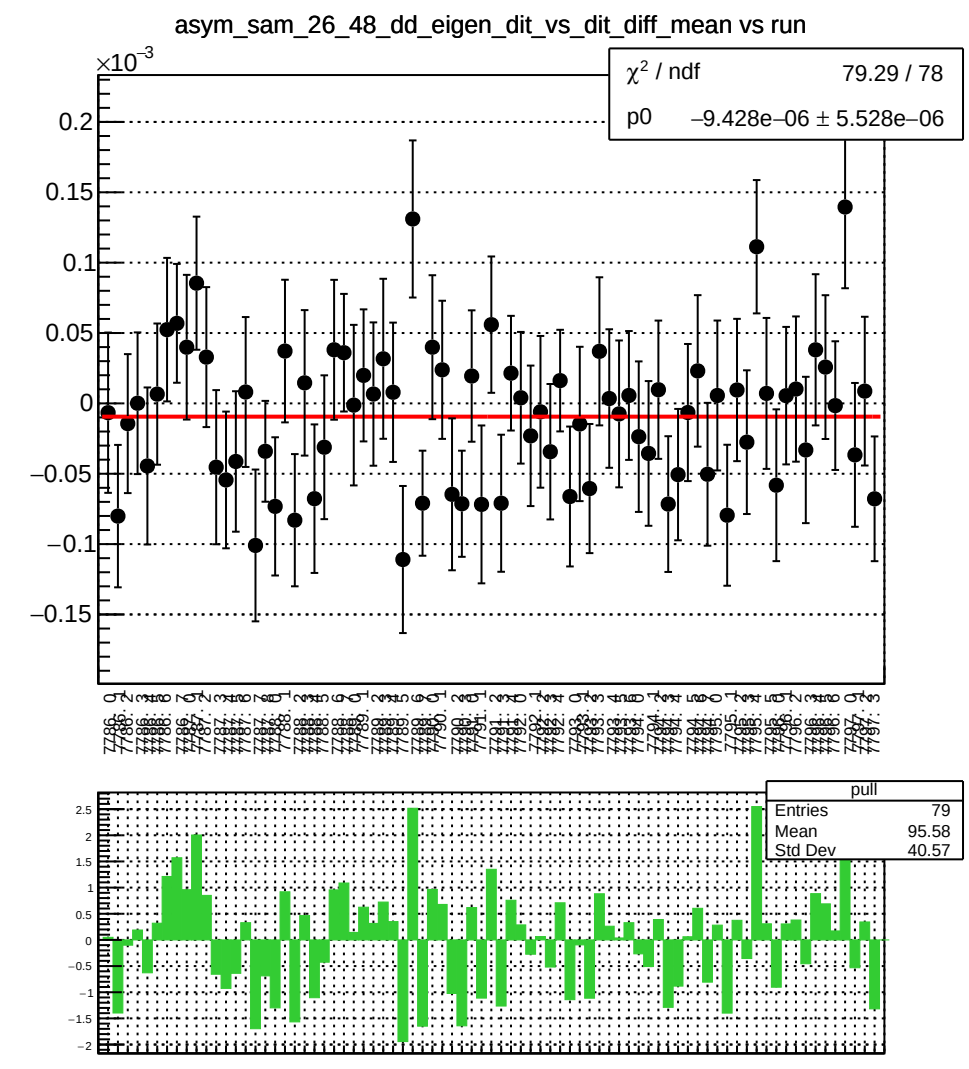

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.725e+05 / 78
p0 3.806e−11 ± 4.68e−14
0.05
0.04
0.03
0.02
0.01
0

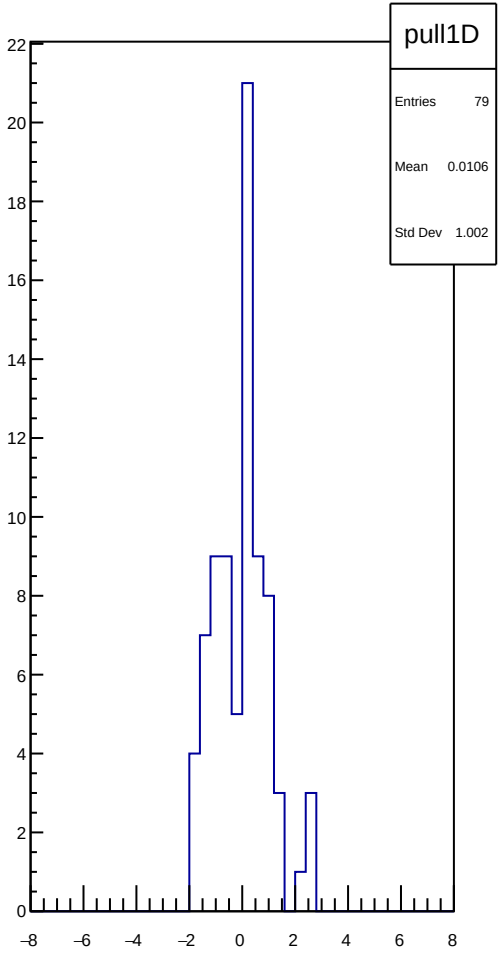

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.49 / 78
p0 −0.06921 ± 0.07081
pull
Entries 79
Mean −579.5
Std Dev 0
pull1D
Entries 79
Mean −0.00386
Std Dev 0.9579

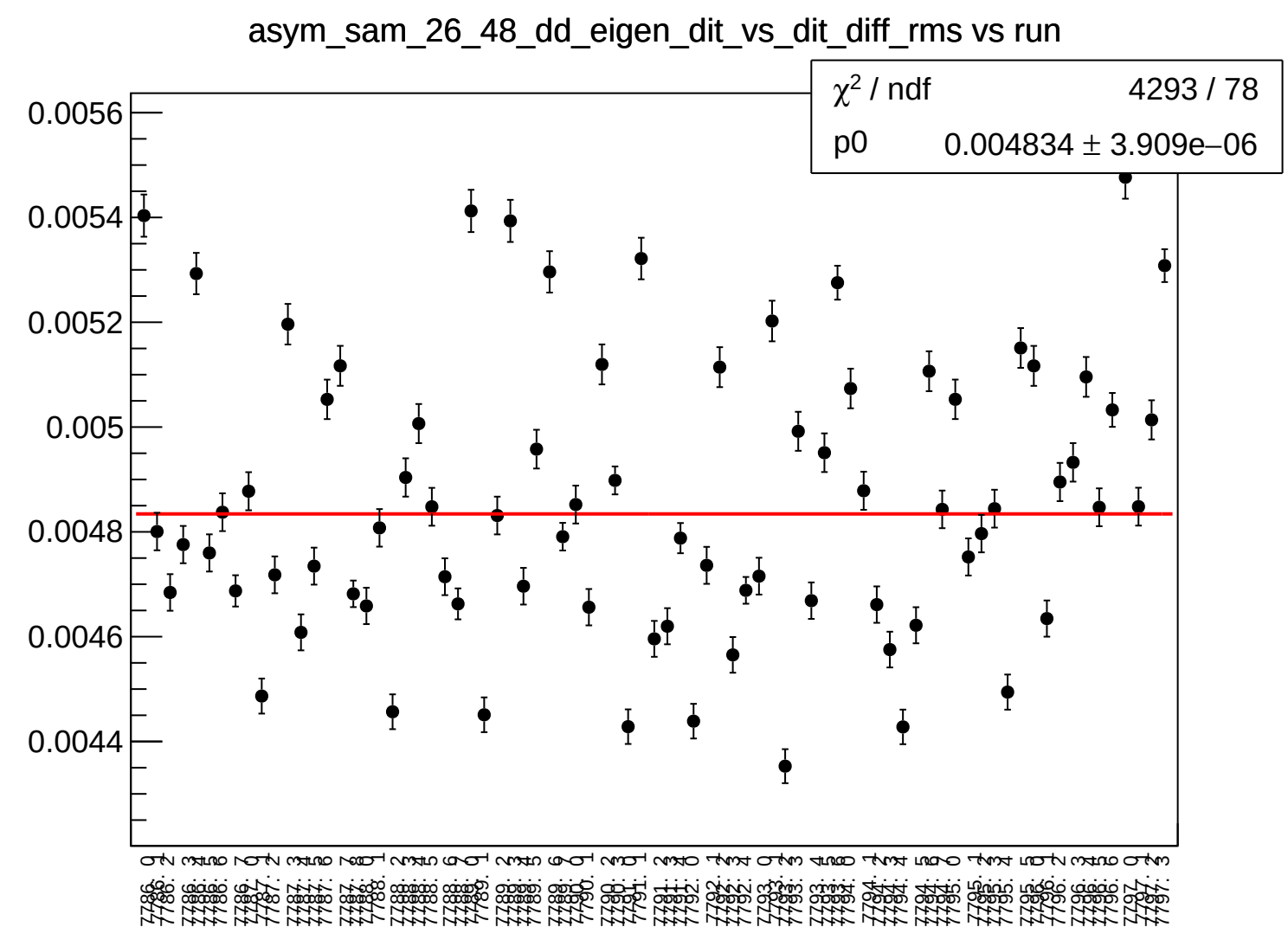

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7989 / 78
p0 61.85 ± 0.05007
85
80
75
70
65
60
55

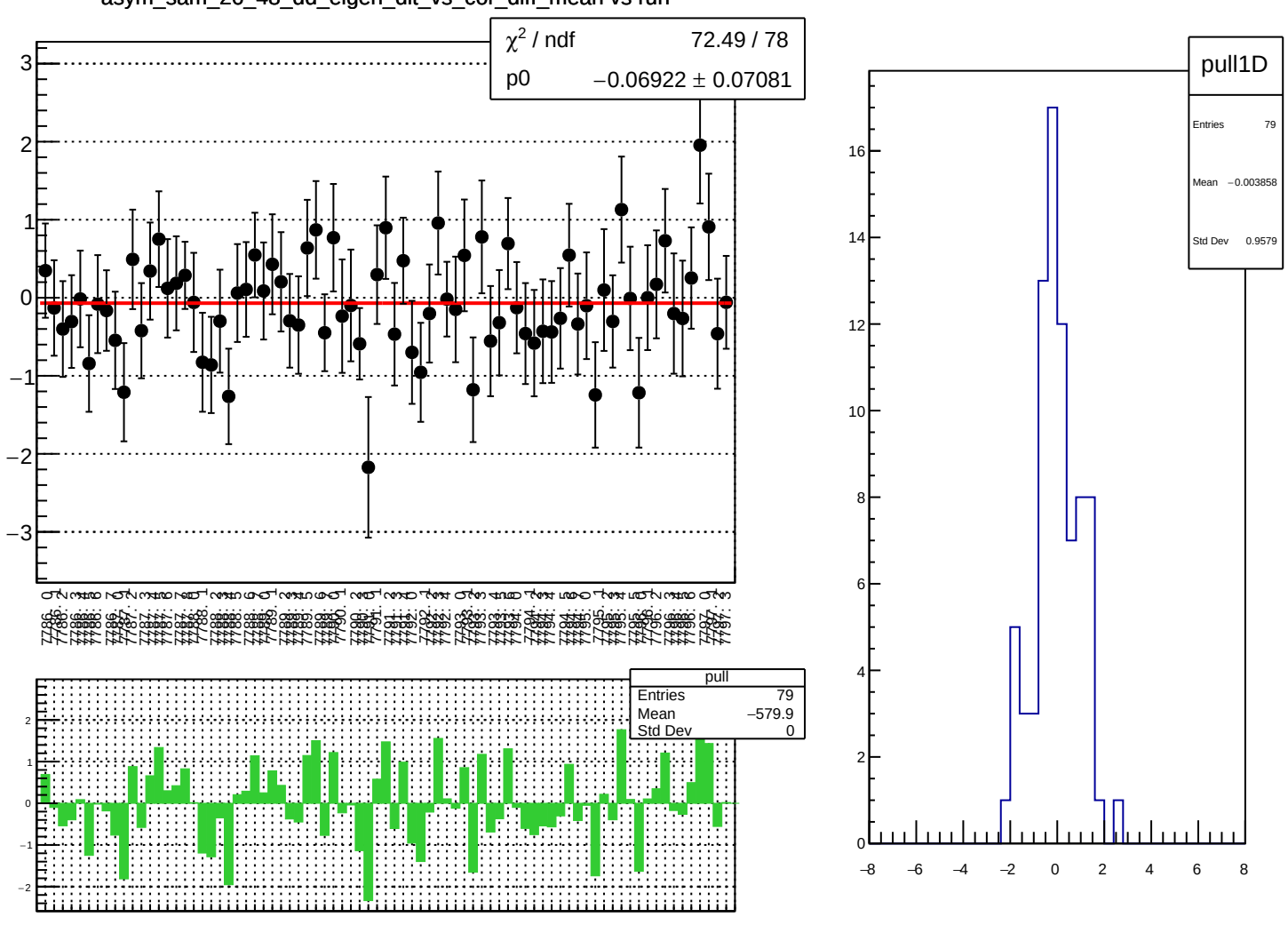

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.49 / 78
p0 −0.06921 ± 0.07081
pull
Entries 79
Mean −579.5
Std Dev 0
pull1D
Entries 79
Mean −0.00386
Std Dev 0.9579

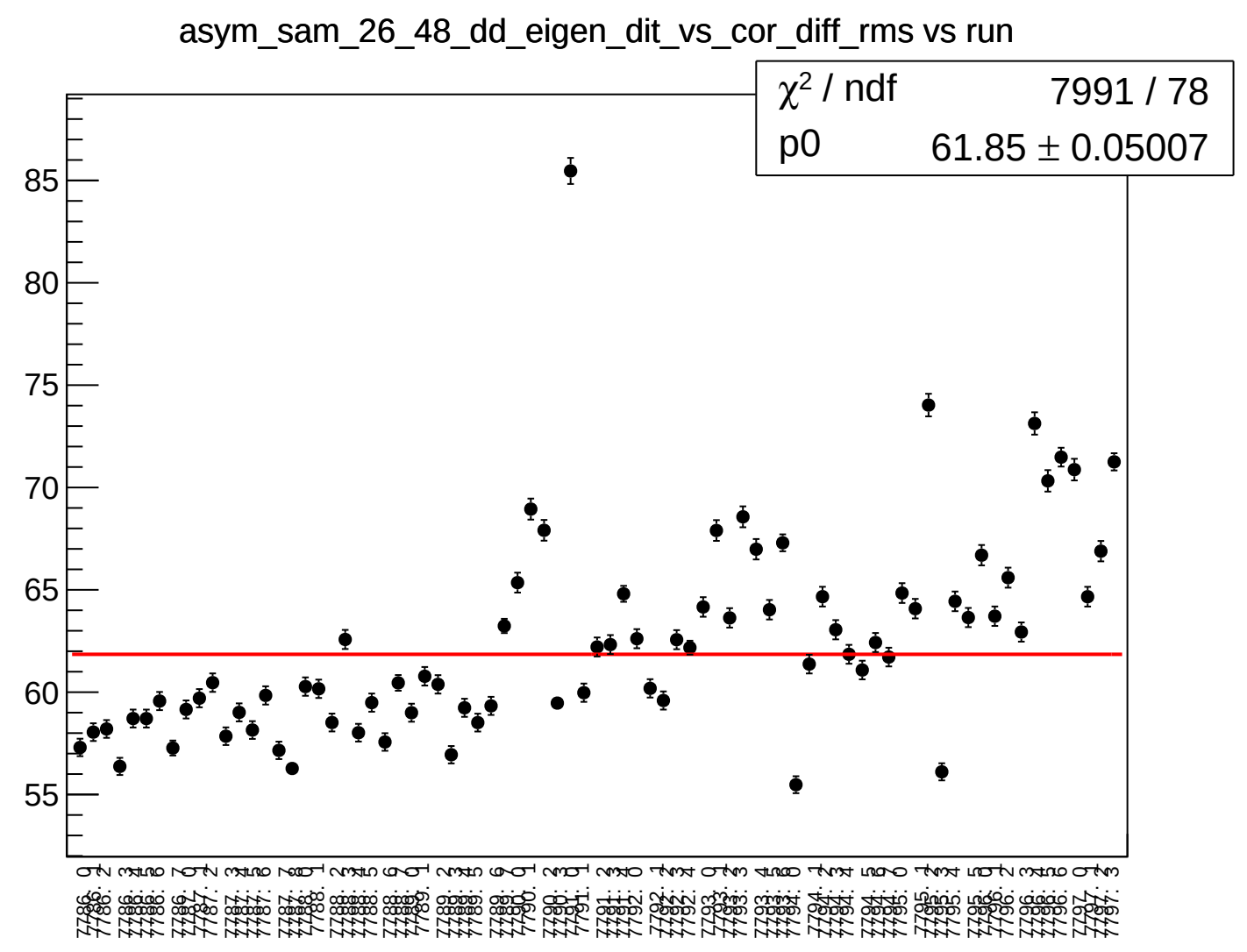

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7989 / 78
p0 61.85 ± 0.05007
85
80
75
70
65
60
55

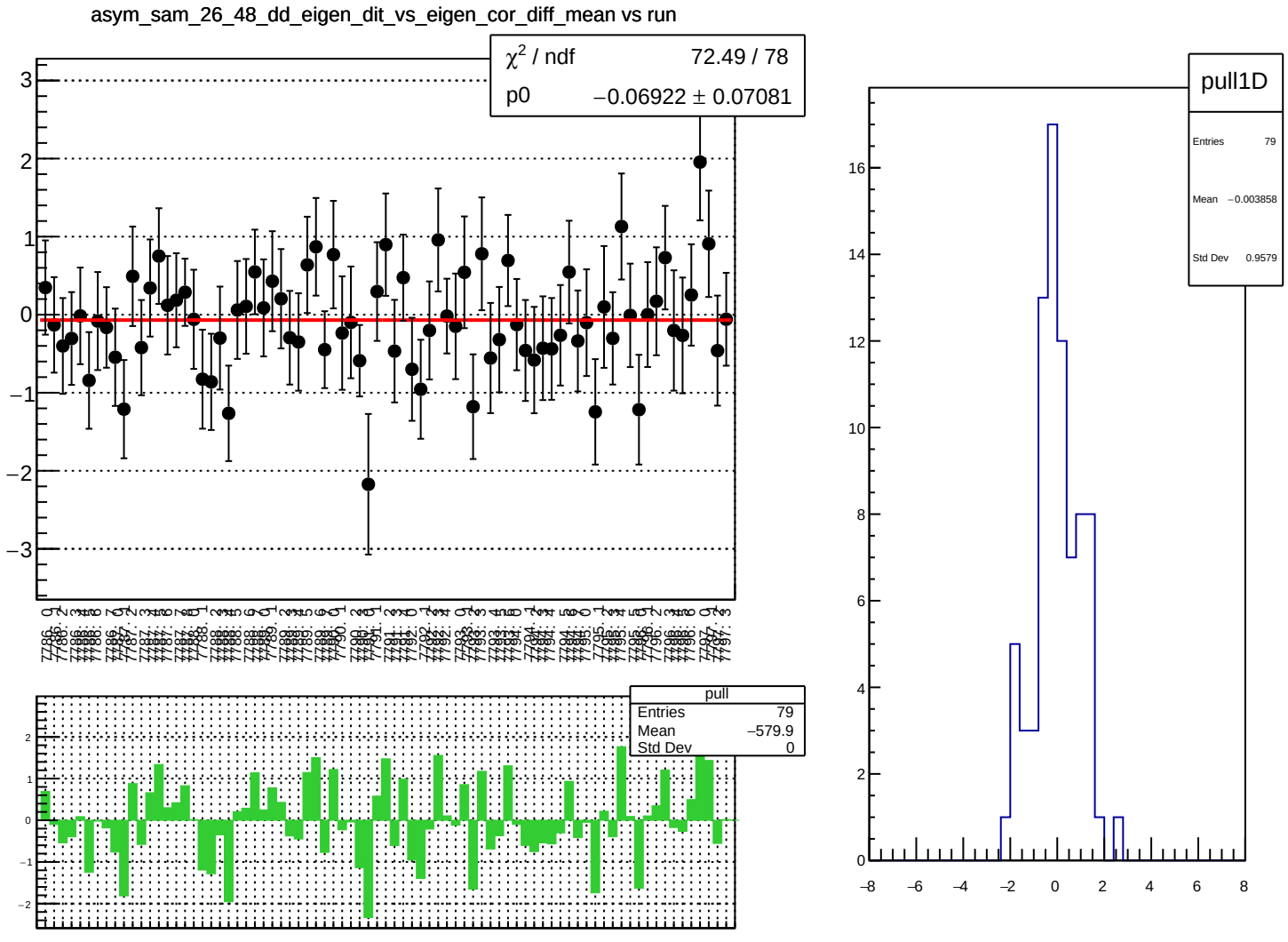

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.29 / 78
p0 −9.428e−06 ± 5.528e−06
pull
Entries 79
Mean 95.58
Std Dev 40.57

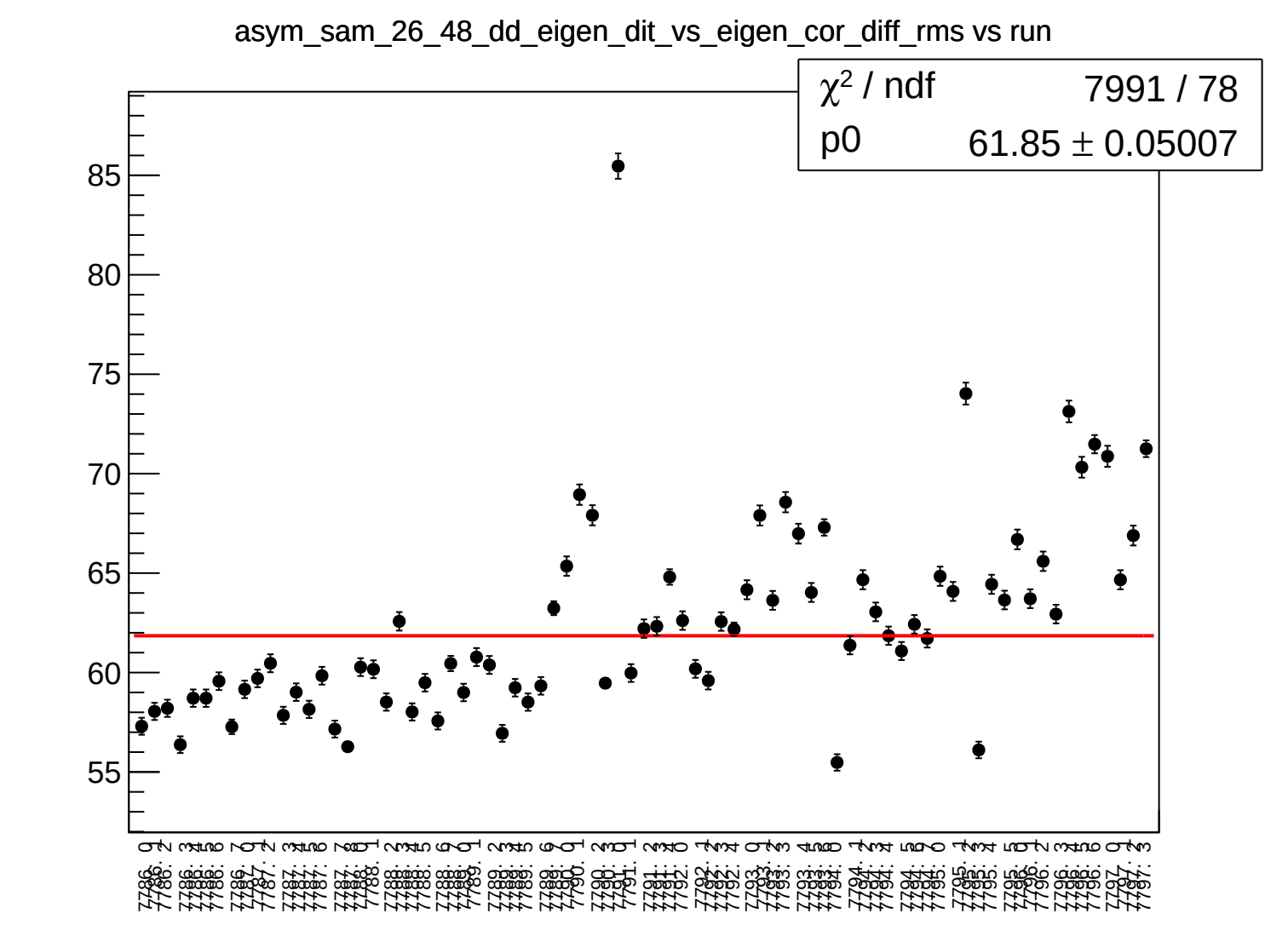

pull1D
Entries 79
Mean 0.0106
Std Dev 1.002

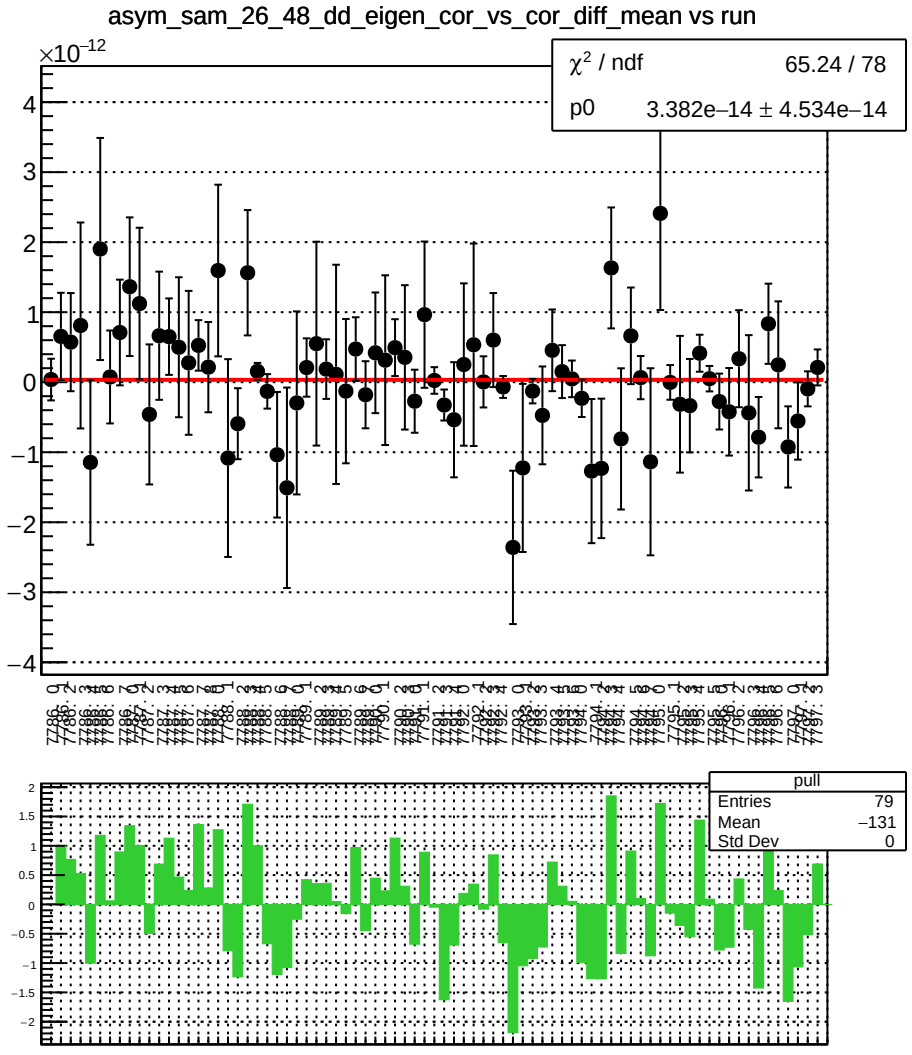

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4293 / 78
p0 0.004834 ± 3.909e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

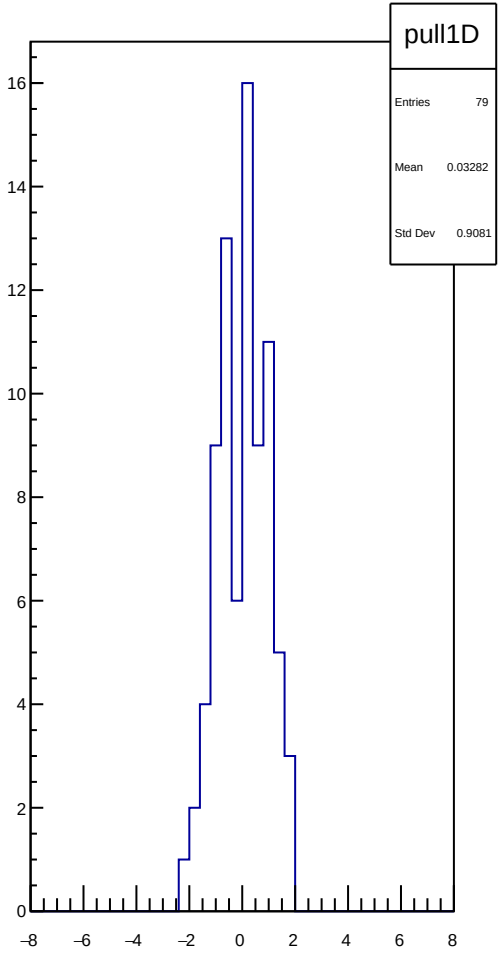

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.49 / 78
p0 −0.06922 ± 0.07081
pull
Entries 79
Mean −579.9
Std Dev 0
pull1D
Entries 79
Mean −0.003858
Std Dev 0.9579

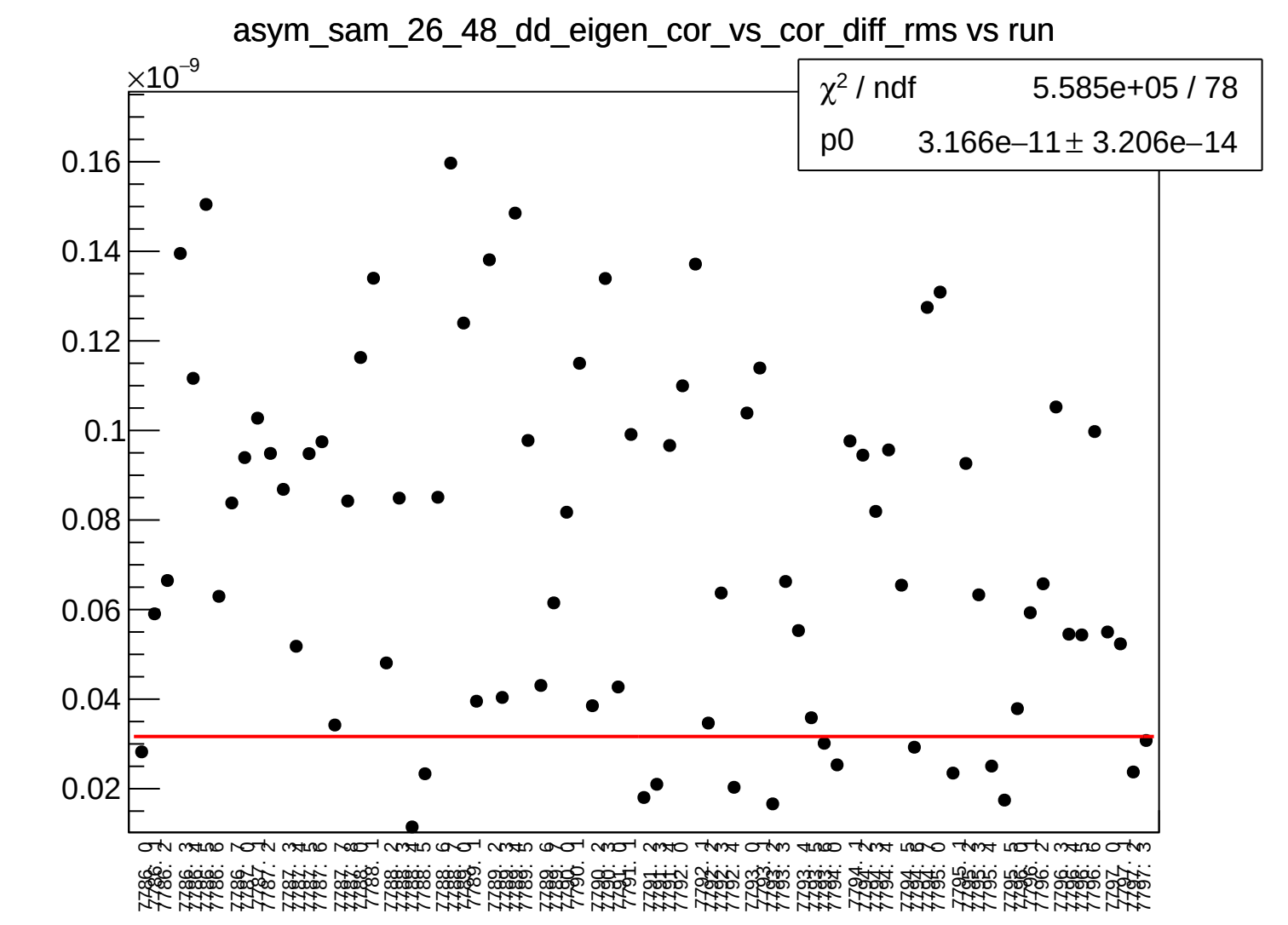

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7991 / 78
p0 61.85 ± 0.05007
85
80
75
70
65
60
55

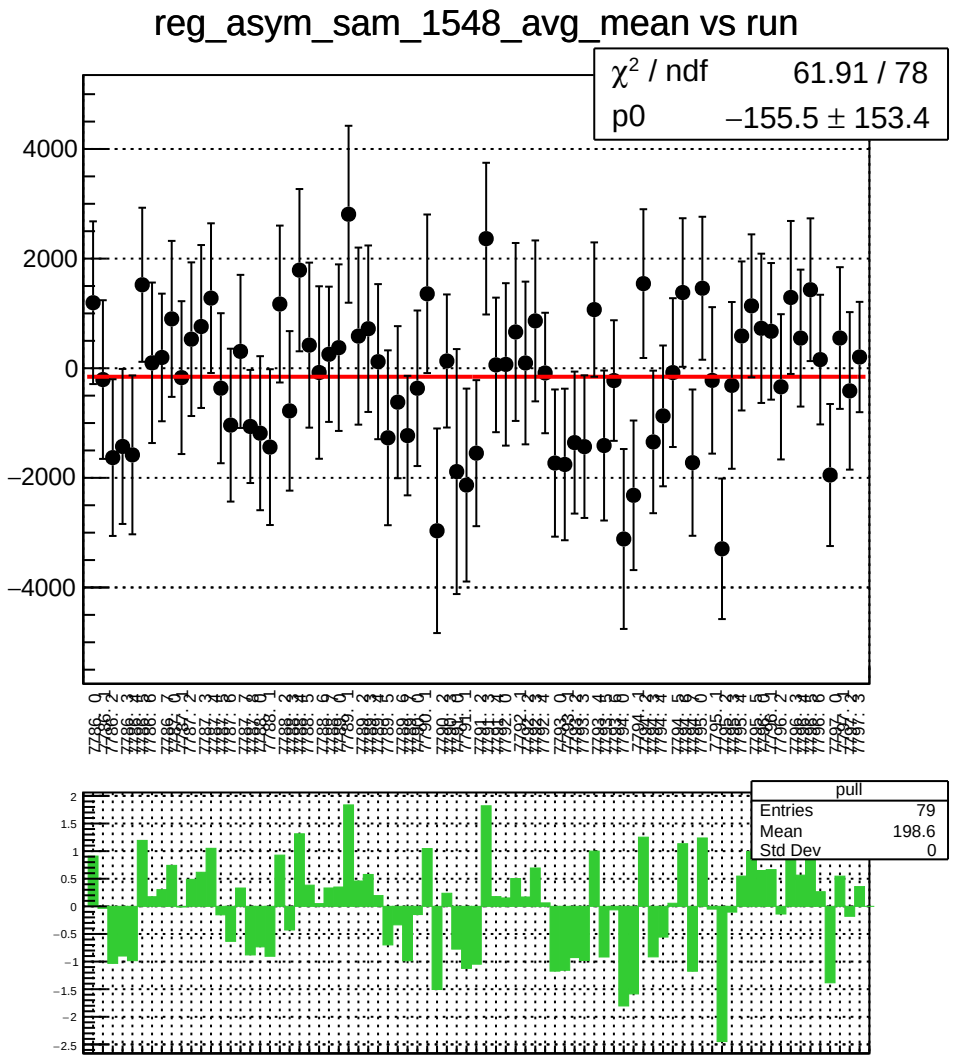

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.49 / 78
p0 −0.06922 ± 0.07081
pull
Entries 79
Mean −579.9
Std Dev 0
pull1D
Entries 79
Mean −0.003858
Std Dev 0.9579

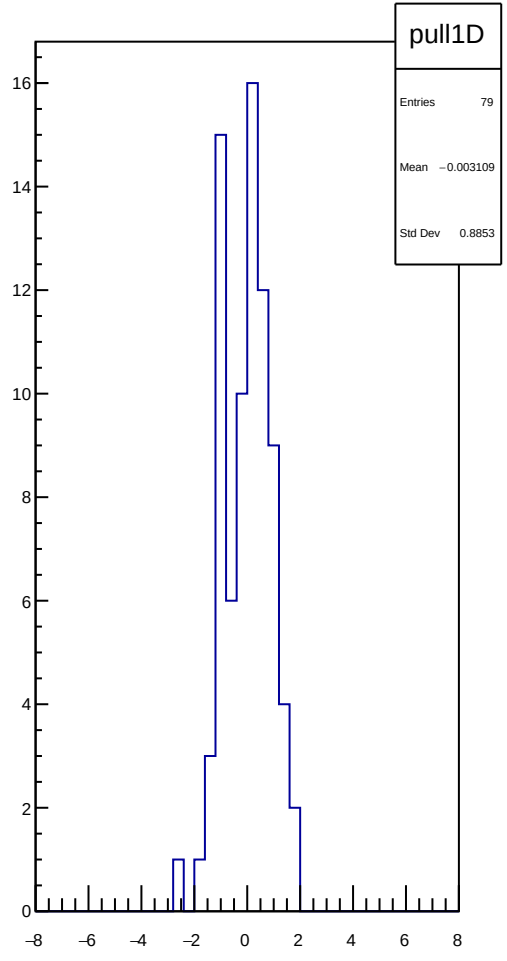

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7991 / 78
p0 61.85 ± 0.05007
85
80
75
70
65
60
55

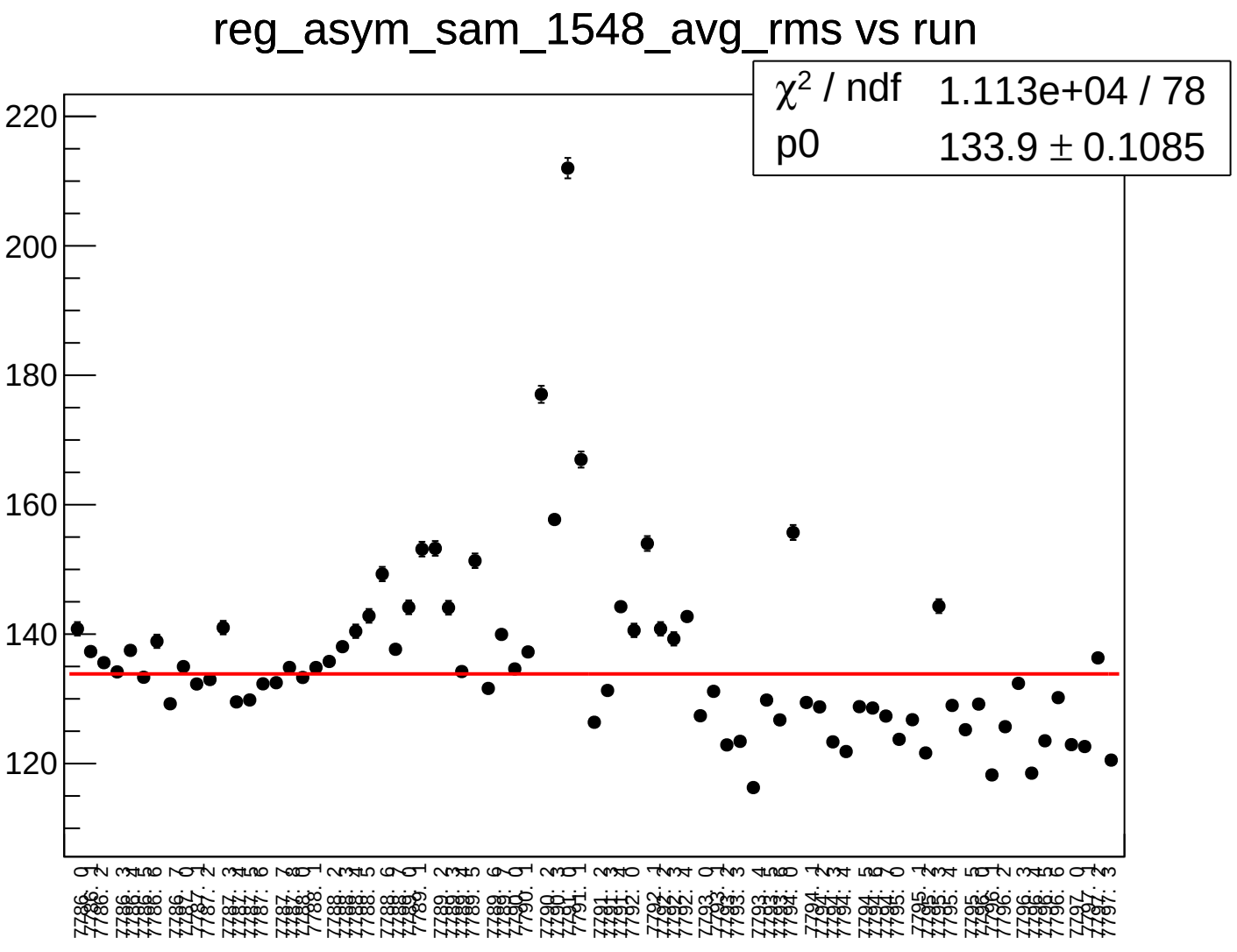

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.24 / 78
p0 3.382e−14 ± 4.534e−14
pull
Entries 79
Mean −131
Std Dev 0

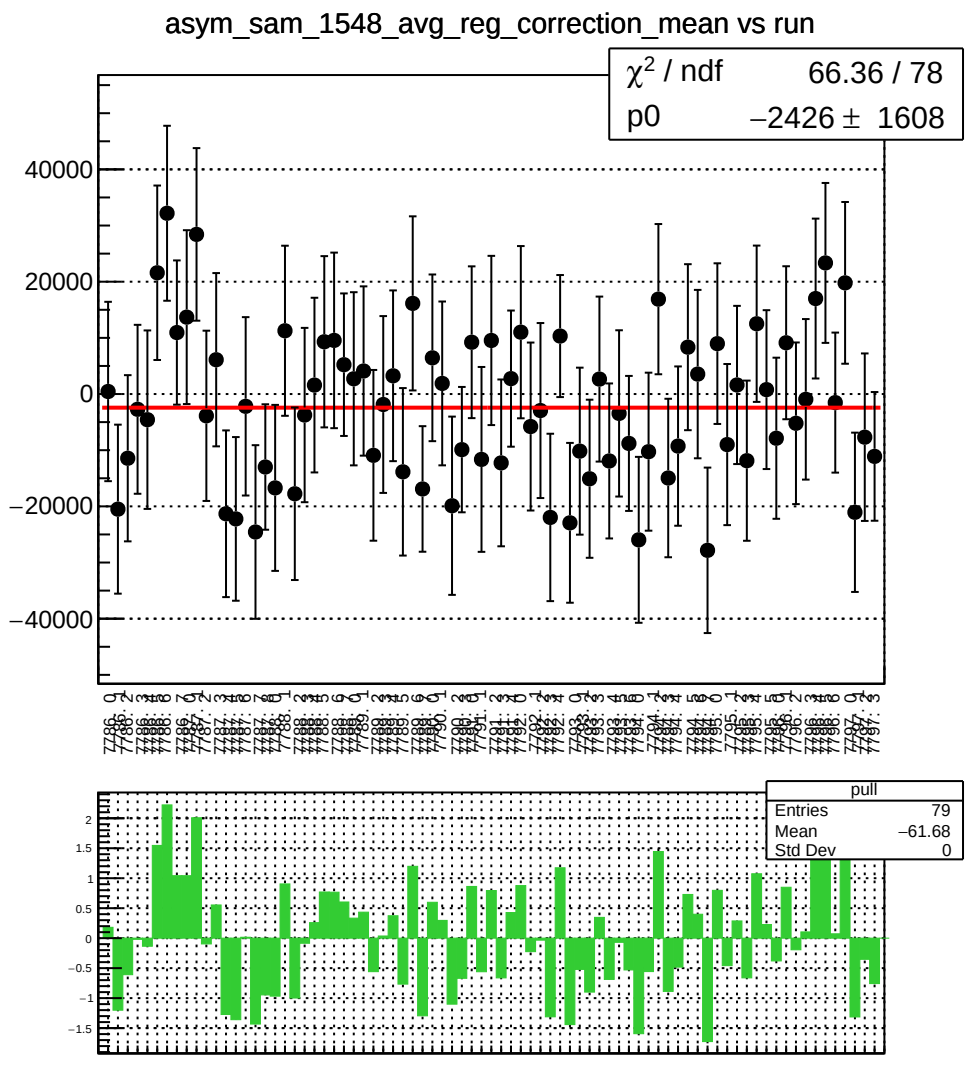

pull1D
Entries 79
Mean 0.03282
Std Dev 0.9081

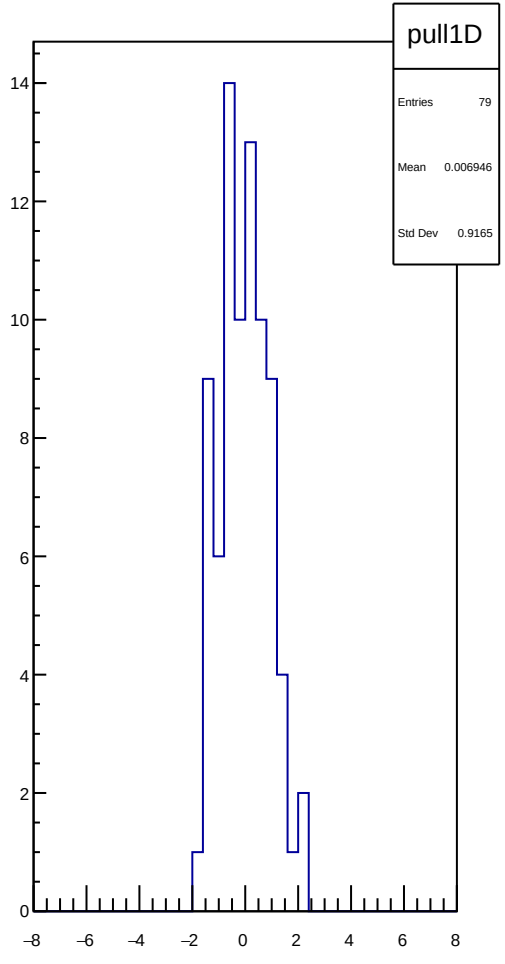

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.585e+05 / 78
p0 3.166e−11 ± 3.206e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

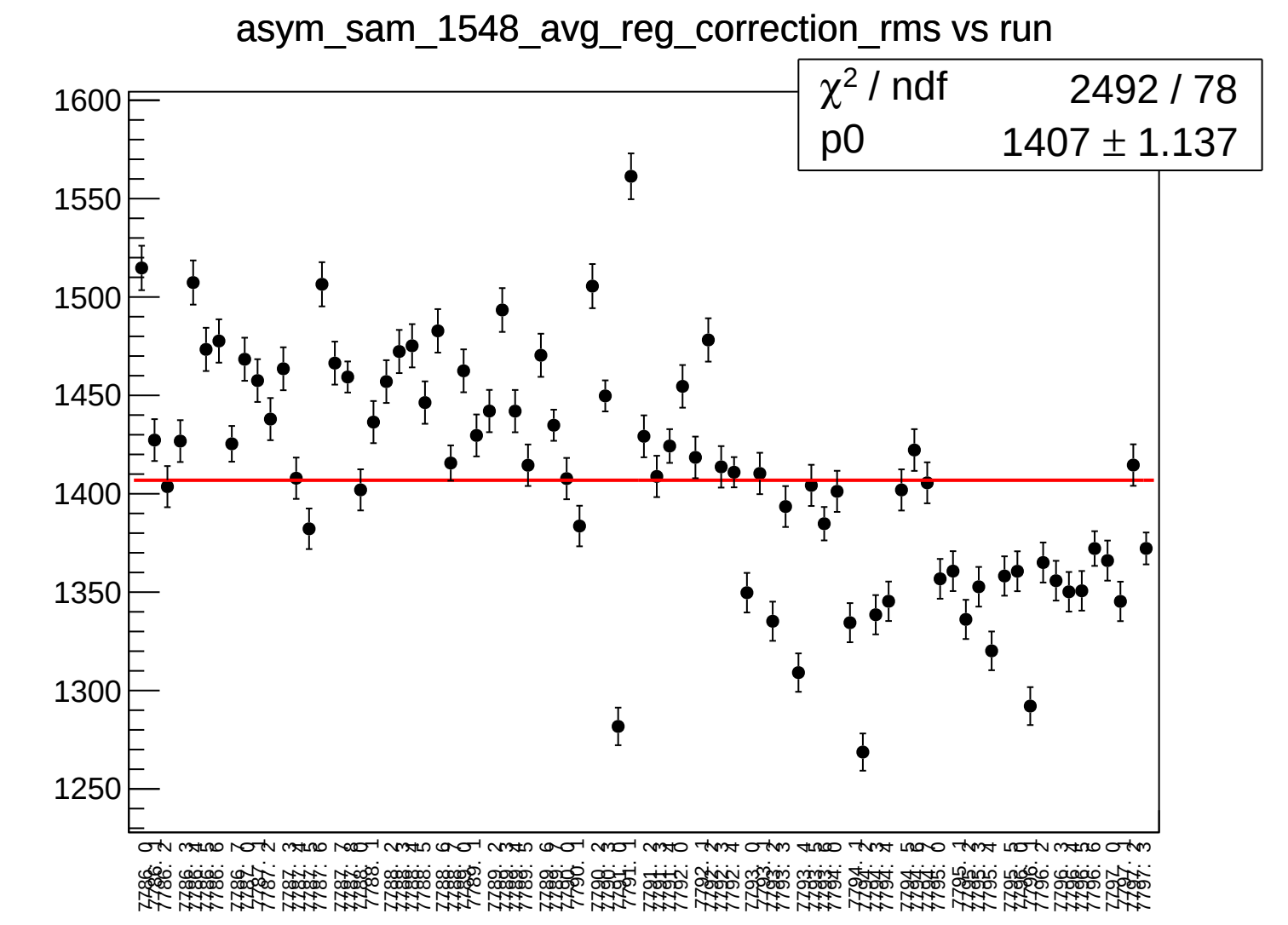

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 61.91 / 78
p0 −155.5 ± 153.4
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 198.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

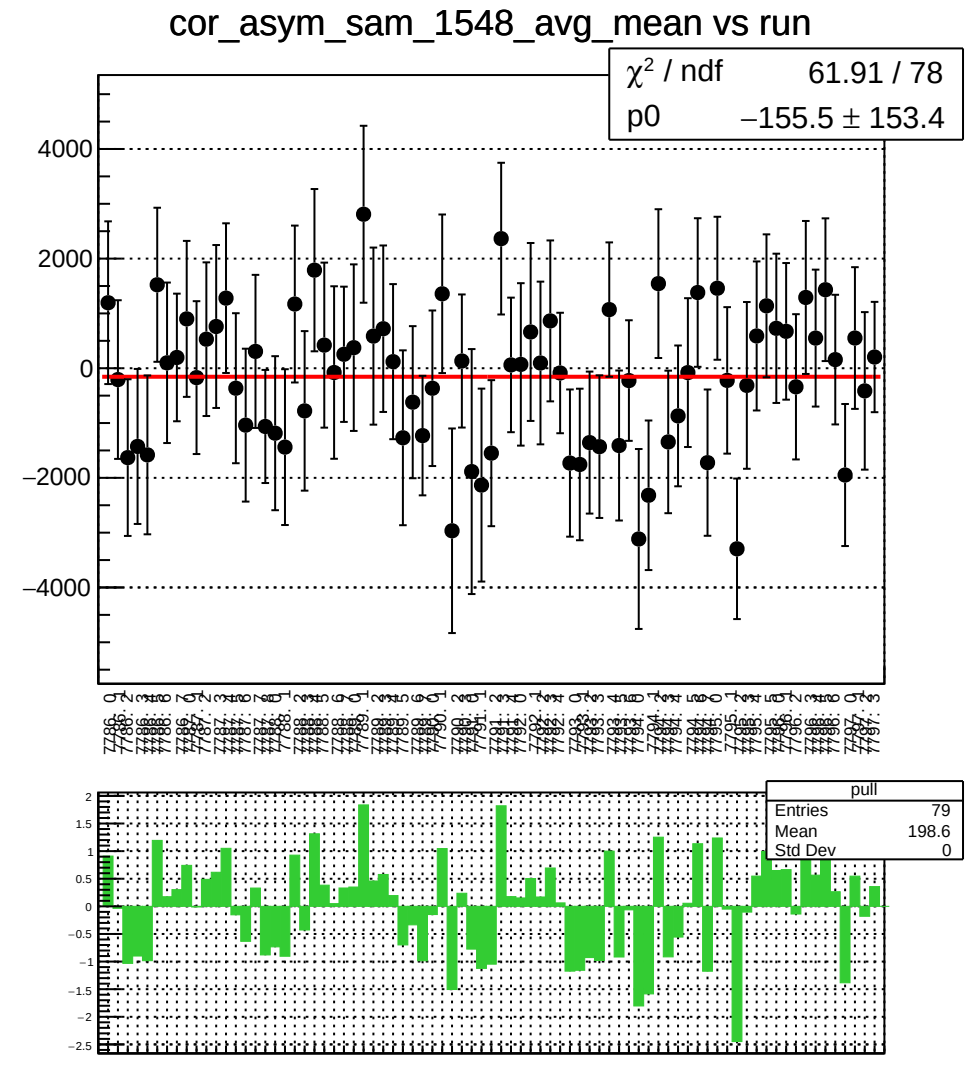

pull1D
Entries 79
Mean −0.003109
Std Dev 0.8853
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

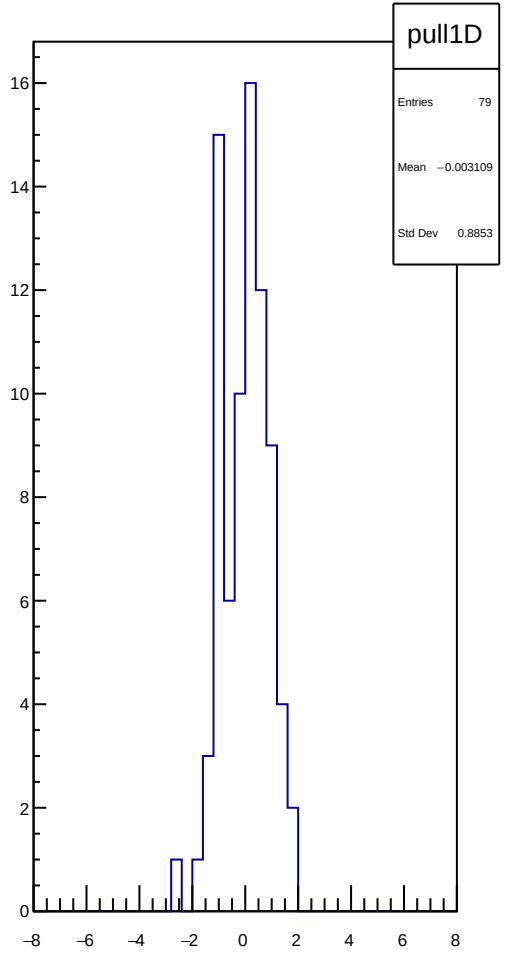

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.113e+04 / 78
p0 133.9 ± 0.1085
220
200
180
160
140
120

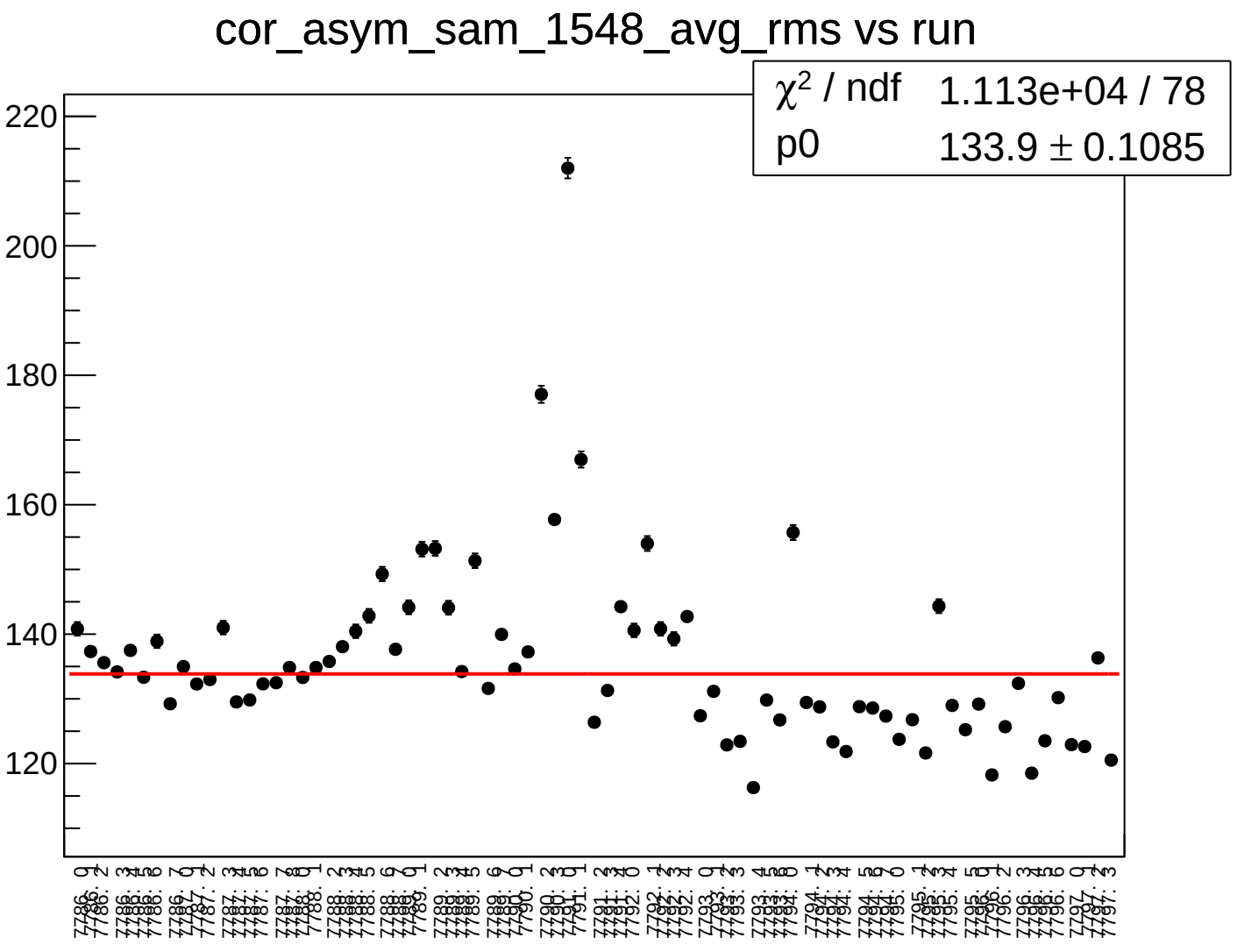

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 66.36 / 78
p0 −2426 ± 1608
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −61.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

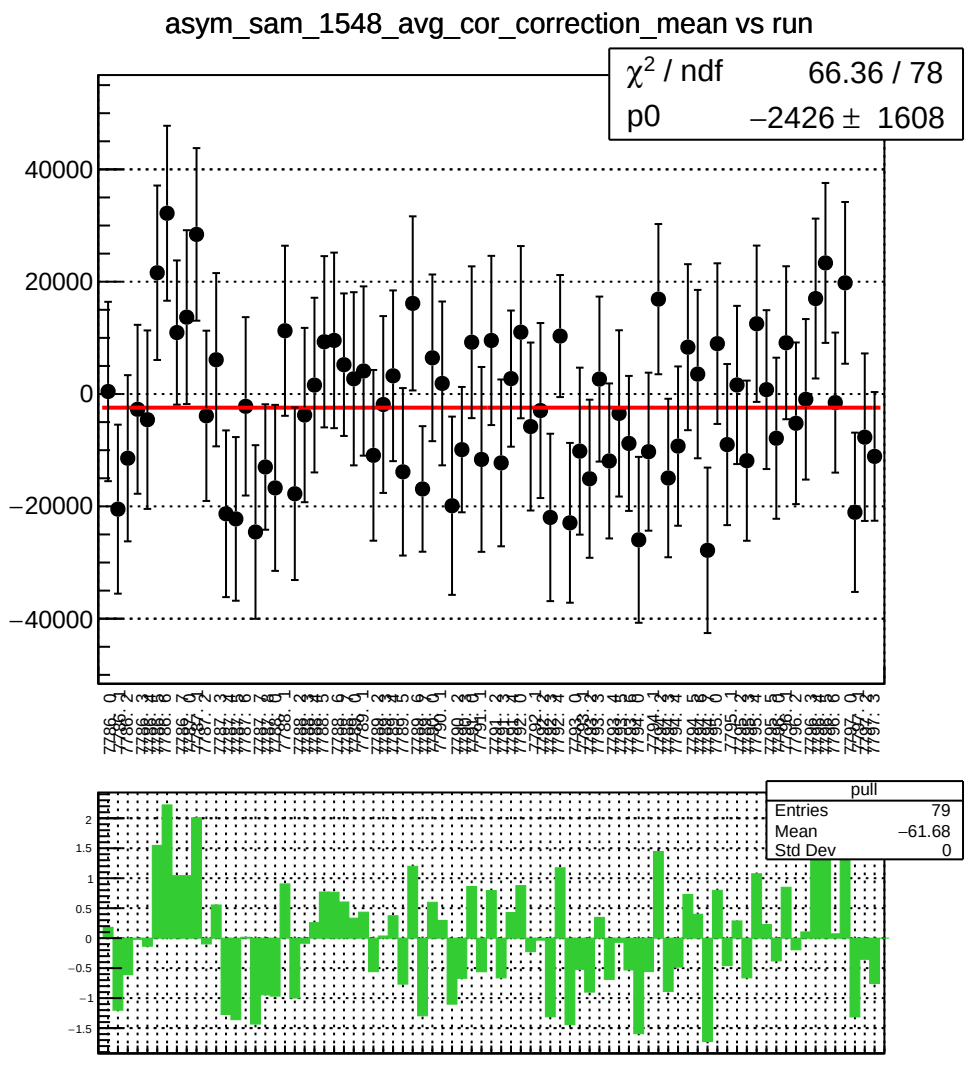

pull1D
Entries 79
Mean 0.006946
Std Dev 0.9165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

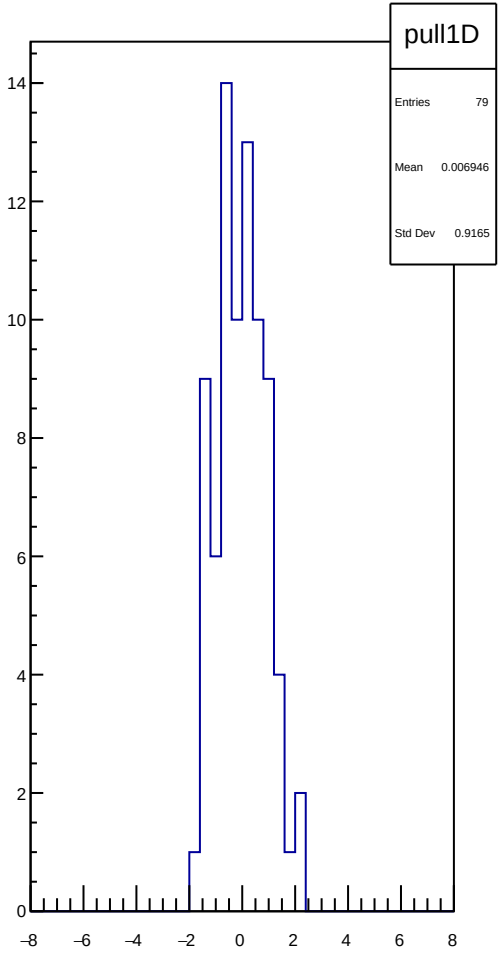

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 2492 / 78
p0 1407 ± 1.137
1600
1550
1500
1450
1400
1350
1300
1250

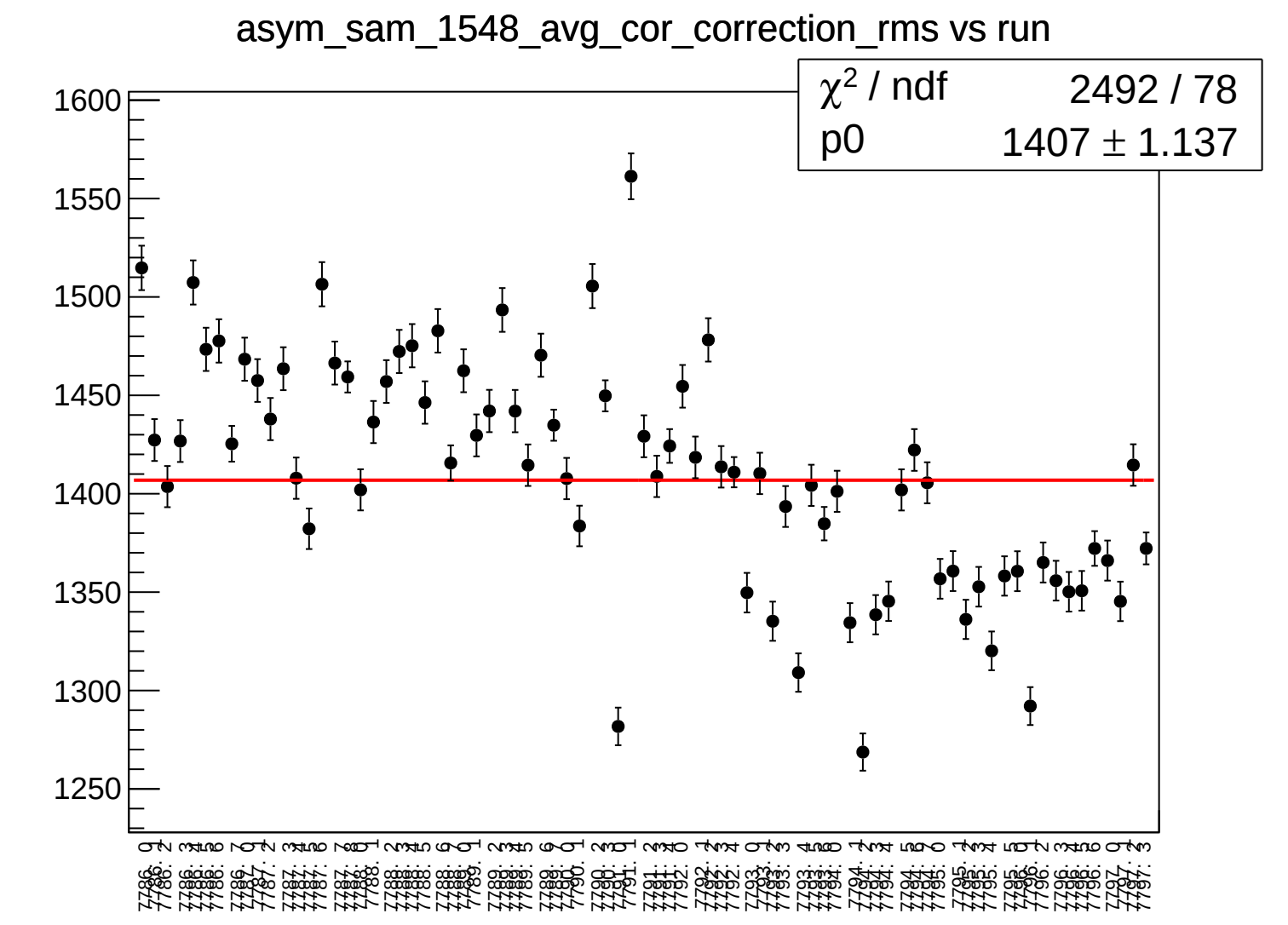

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 61.91 / 78
p0 −155.5 ± 153.4
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 198.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

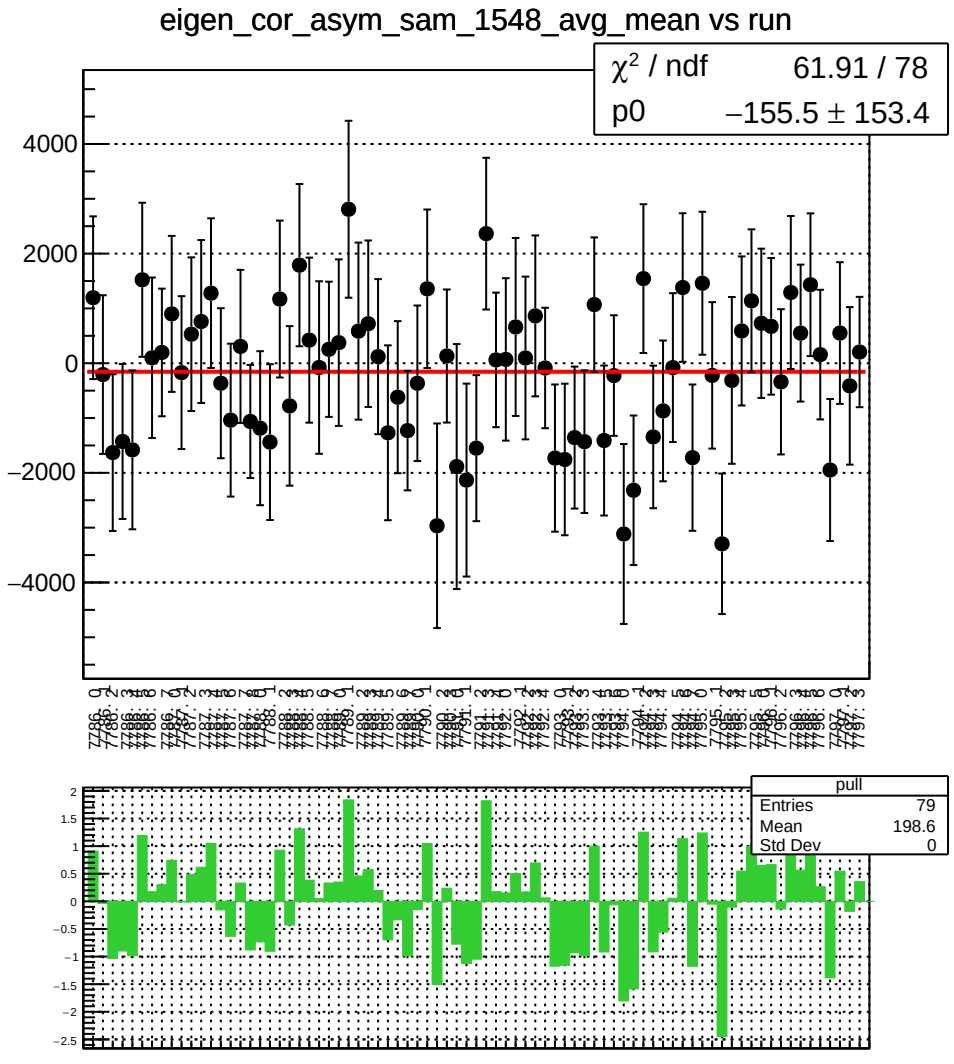

pull1D
Entries 79
Mean −0.003109
Std Dev 0.8853
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

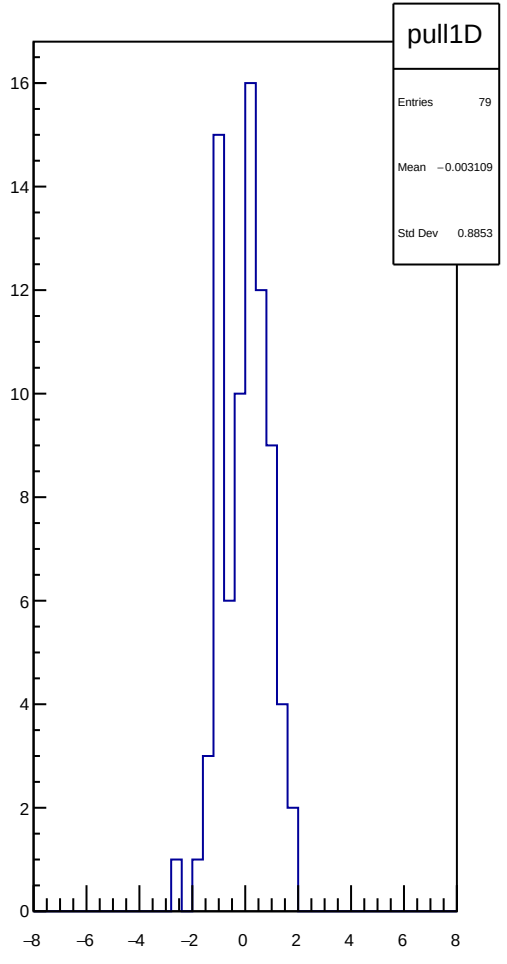

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.113e+04 / 78
p0 133.9 ± 0.1085
220
200
180
160
140
120

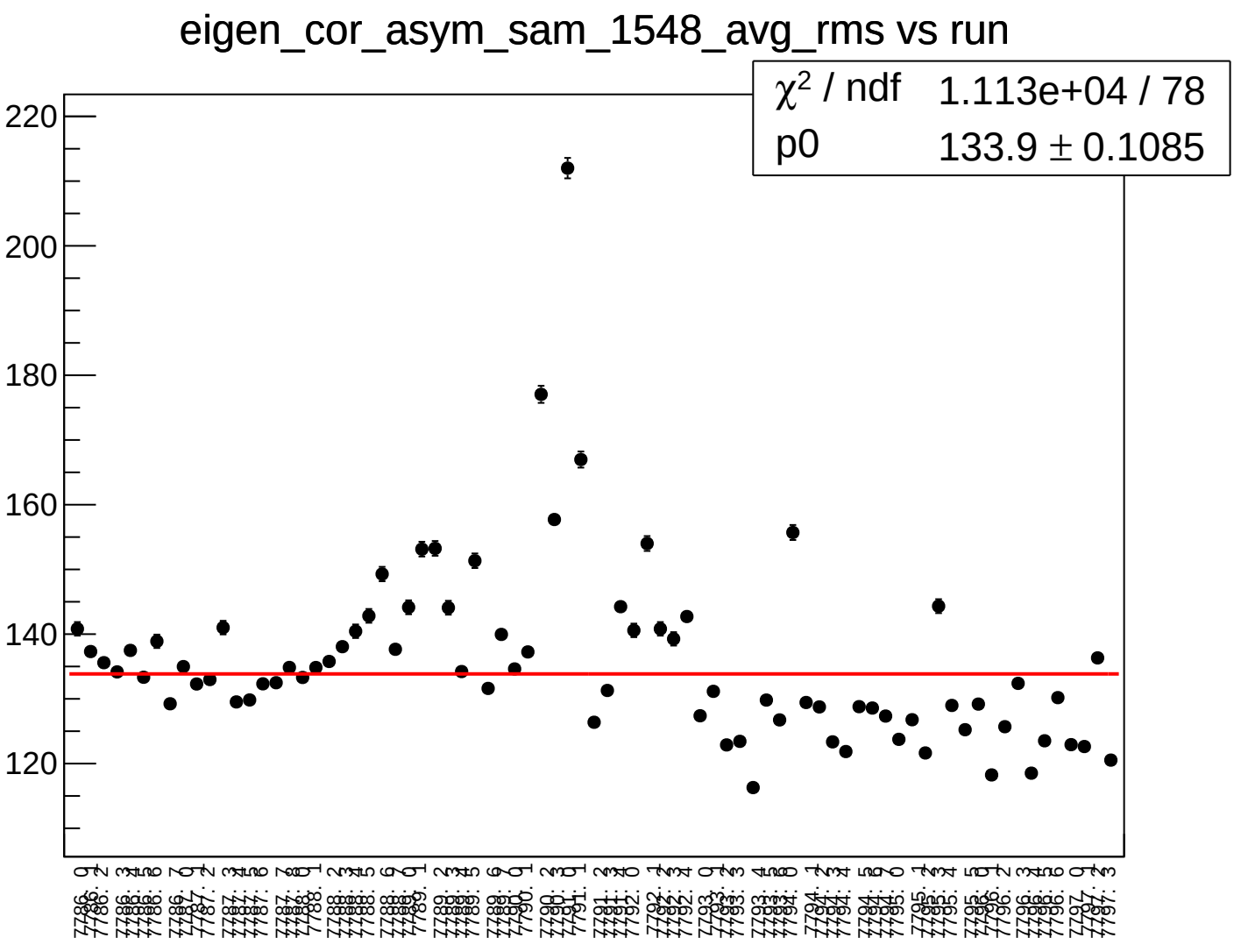

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 66.36 / 78
p0 −2426 ± 1608
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −61.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

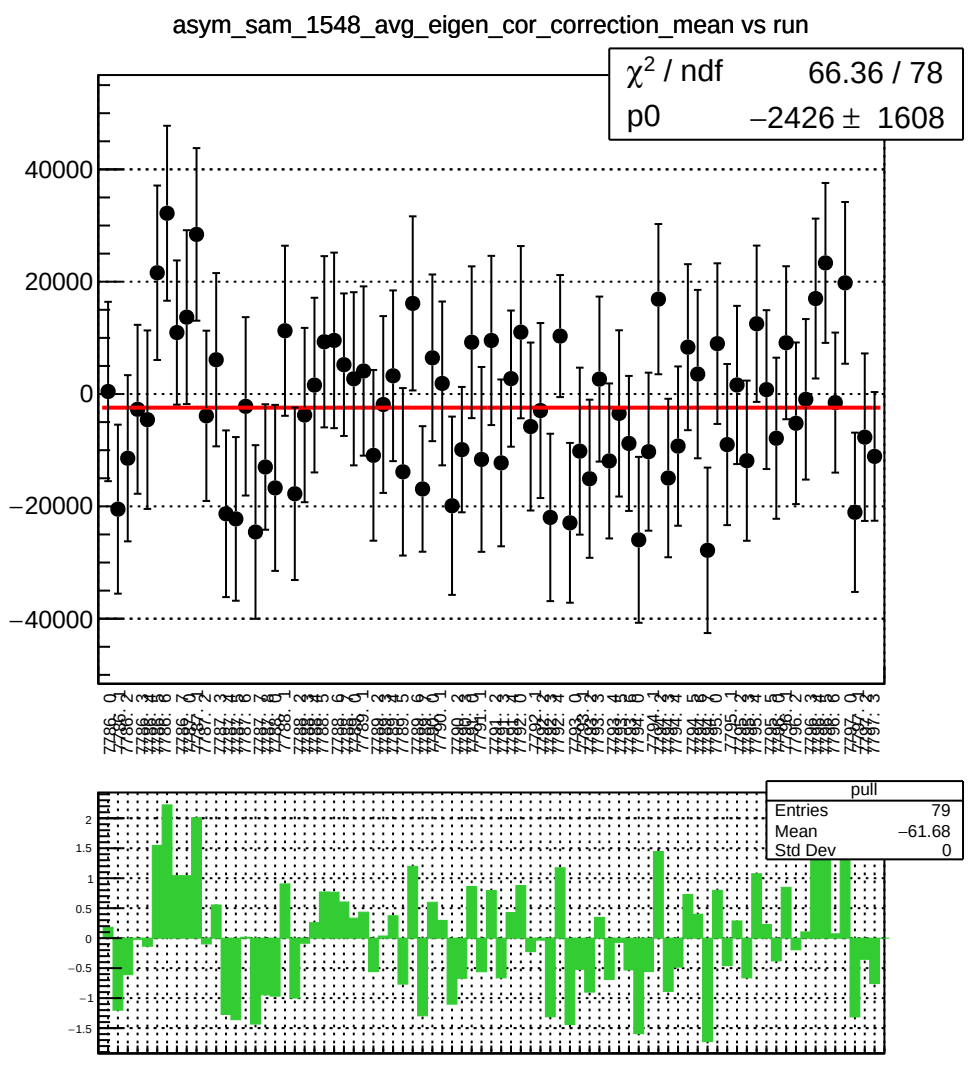

pull1D
Entries 79
Mean 0.006946
Std Dev 0.9165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

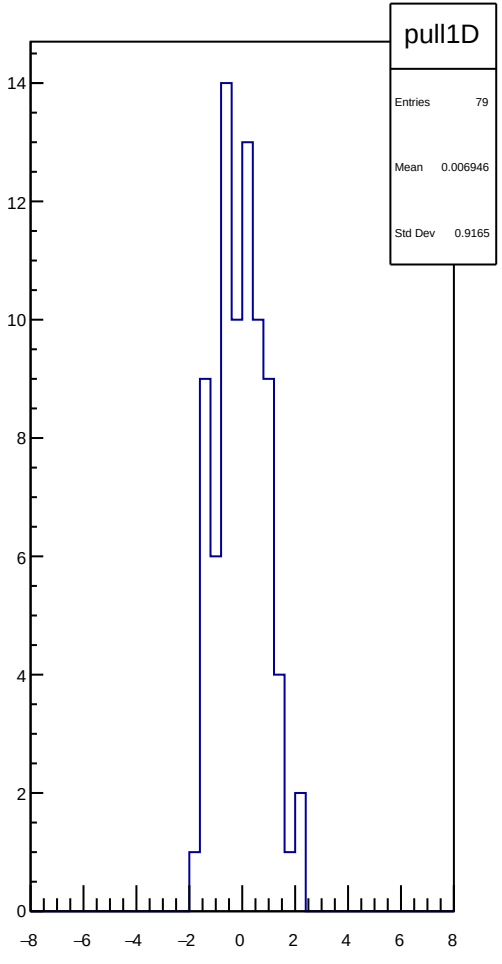

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 2492 / 78
p0 1407 ± 1.137
1600
1550
1500
1450
1400
1350
1300
1250

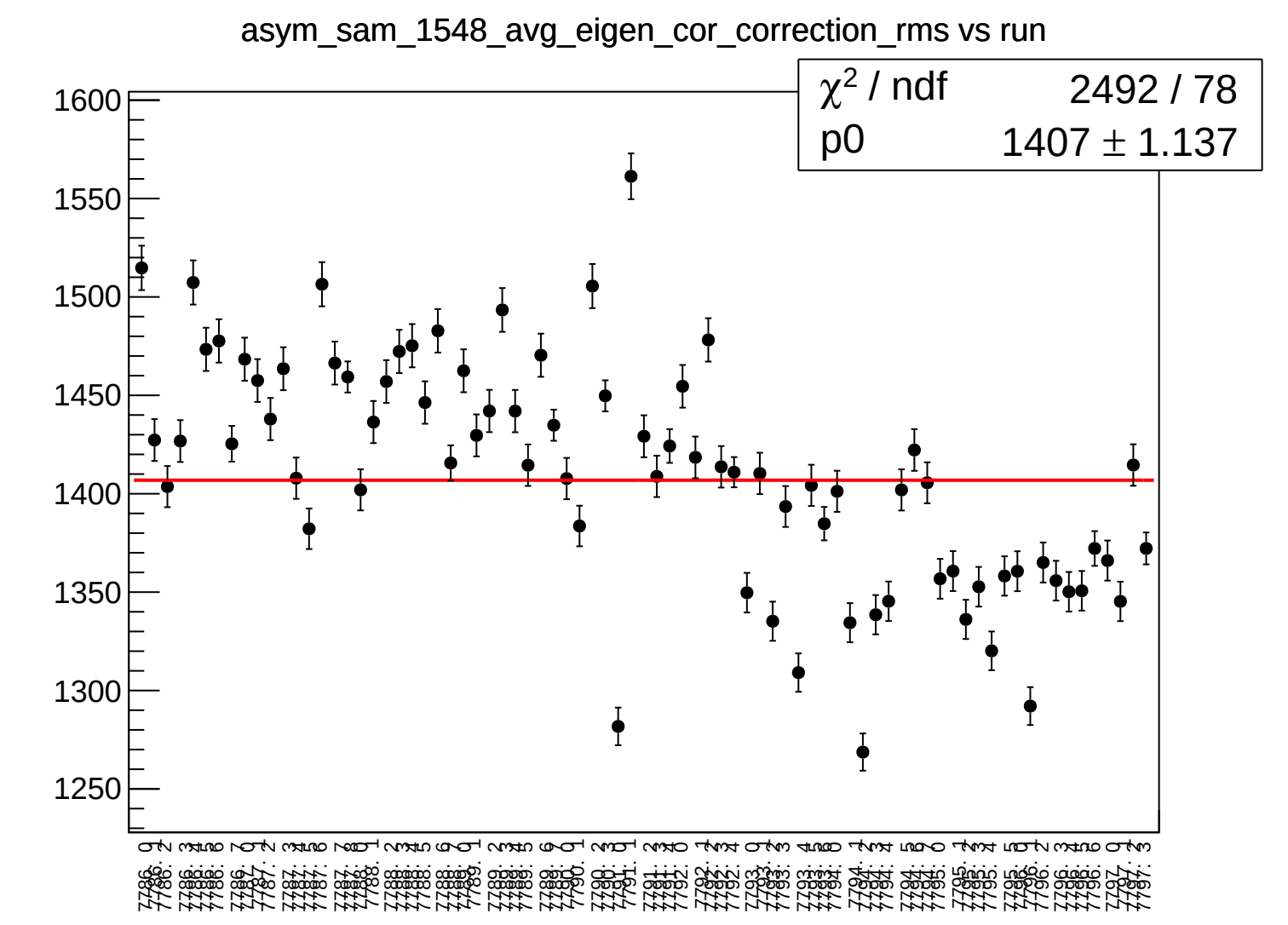

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 61.91 / 78
p0 −155.5 ± 153.4
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 198.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

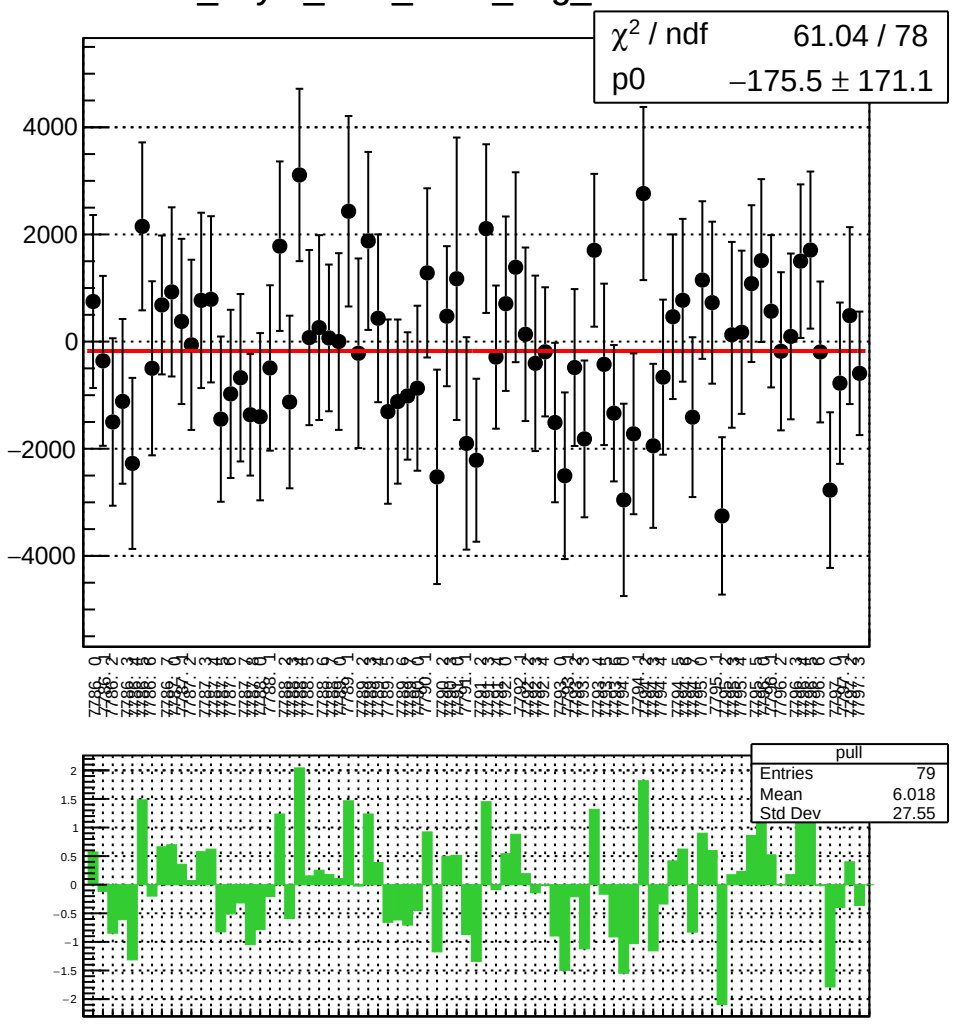

pull1D
Entries 79
Mean −0.003109
Std Dev 0.8853
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

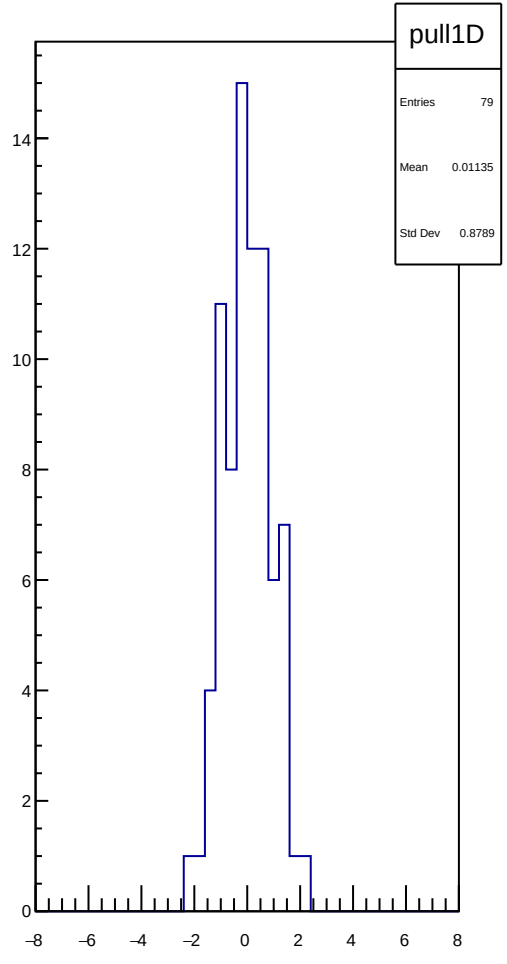

eigen_cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.113e+04 / 78
p0 133.9 ± 0.1085
220
200
180
160
140
120

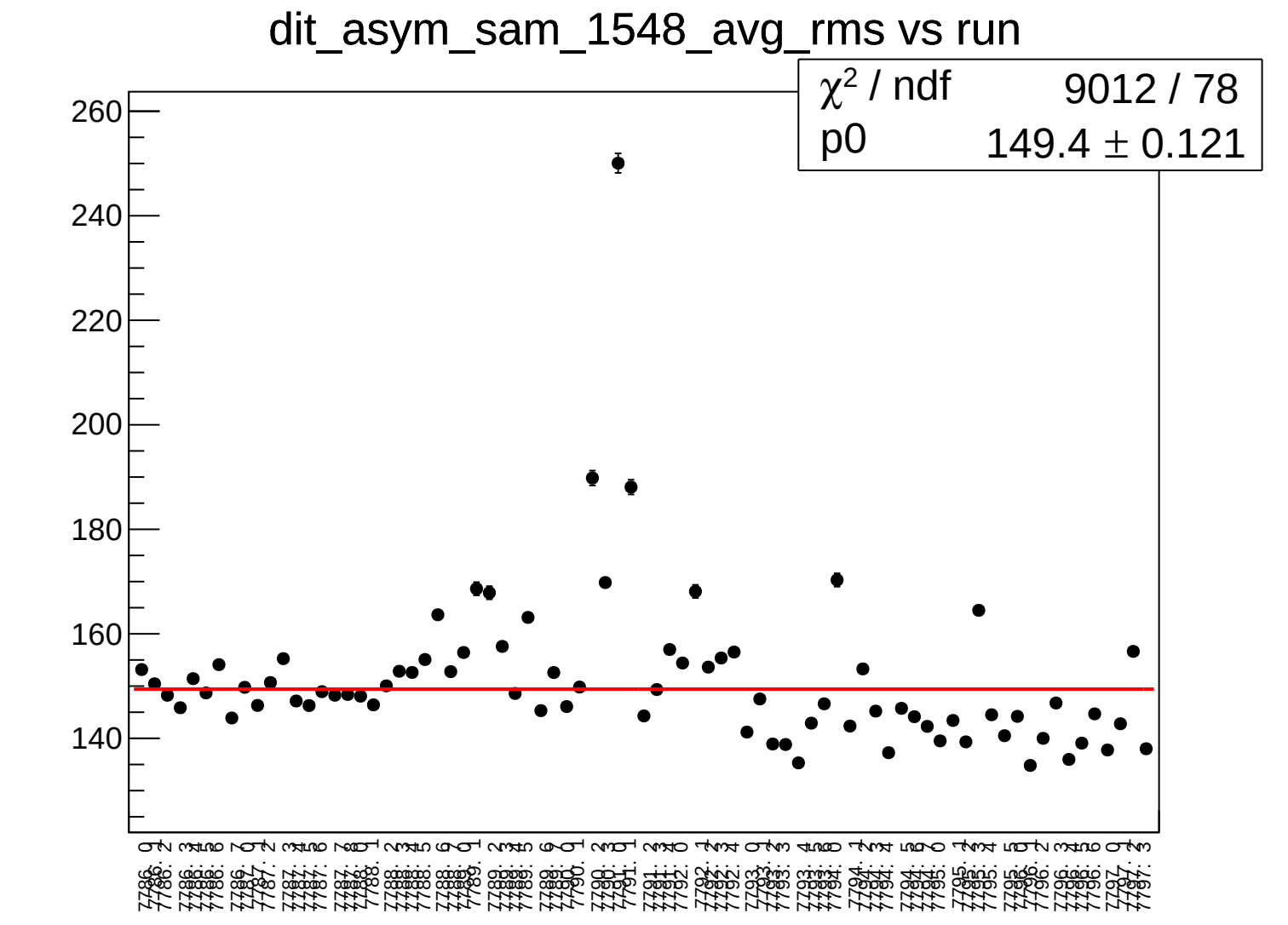

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.36 / 78
p0 −2426 ± 1608
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −61.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

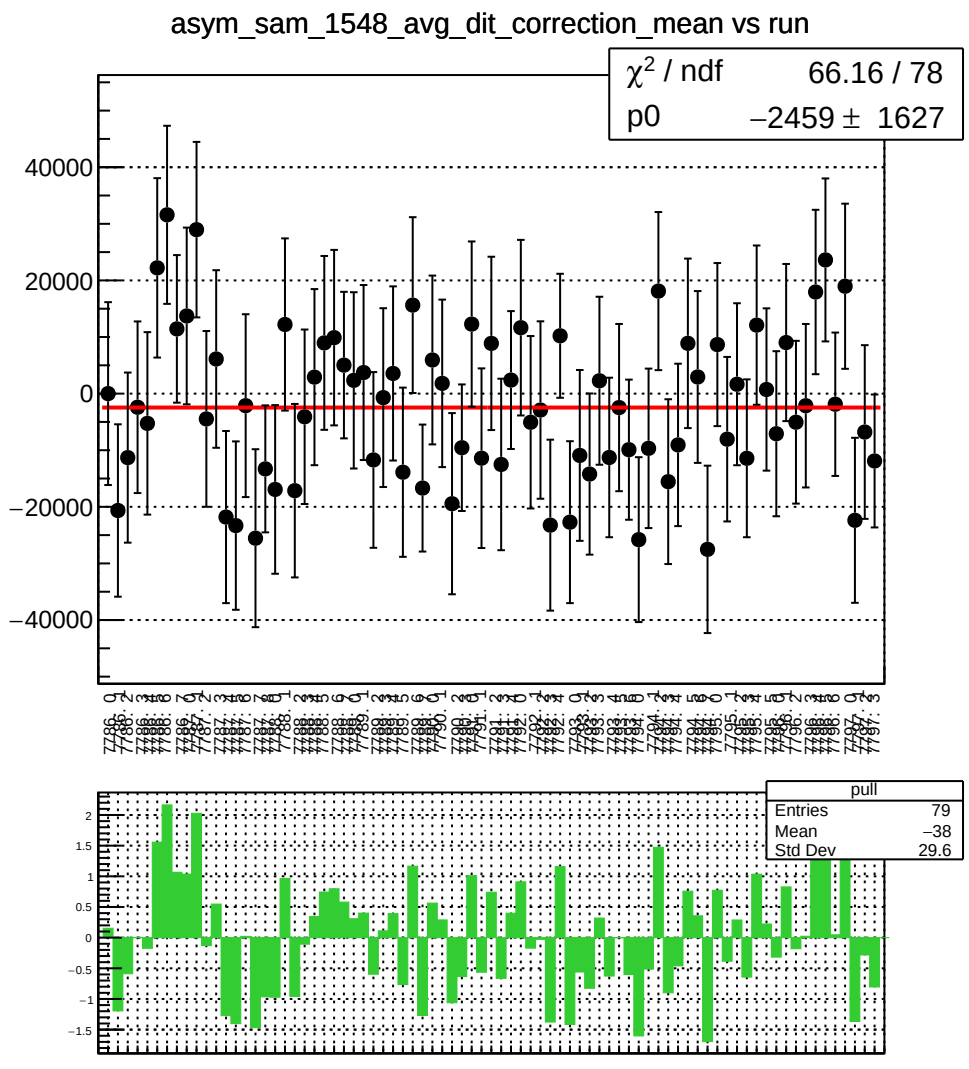

pull1D
Entries 79
Mean 0.006946
Std Dev 0.9165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

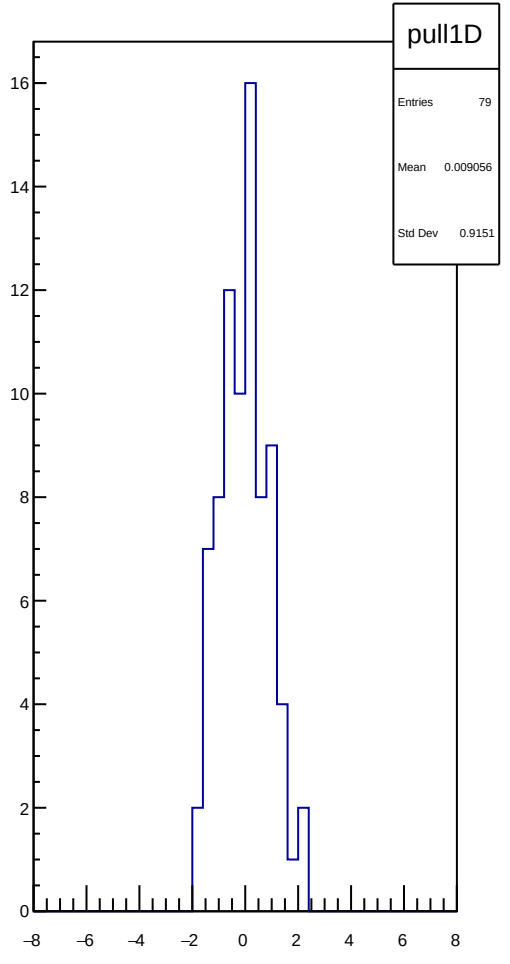

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 2492 / 78
p0 1407 ± 1.137
1600
1550
1500
1450
1400
1350
1300
1250

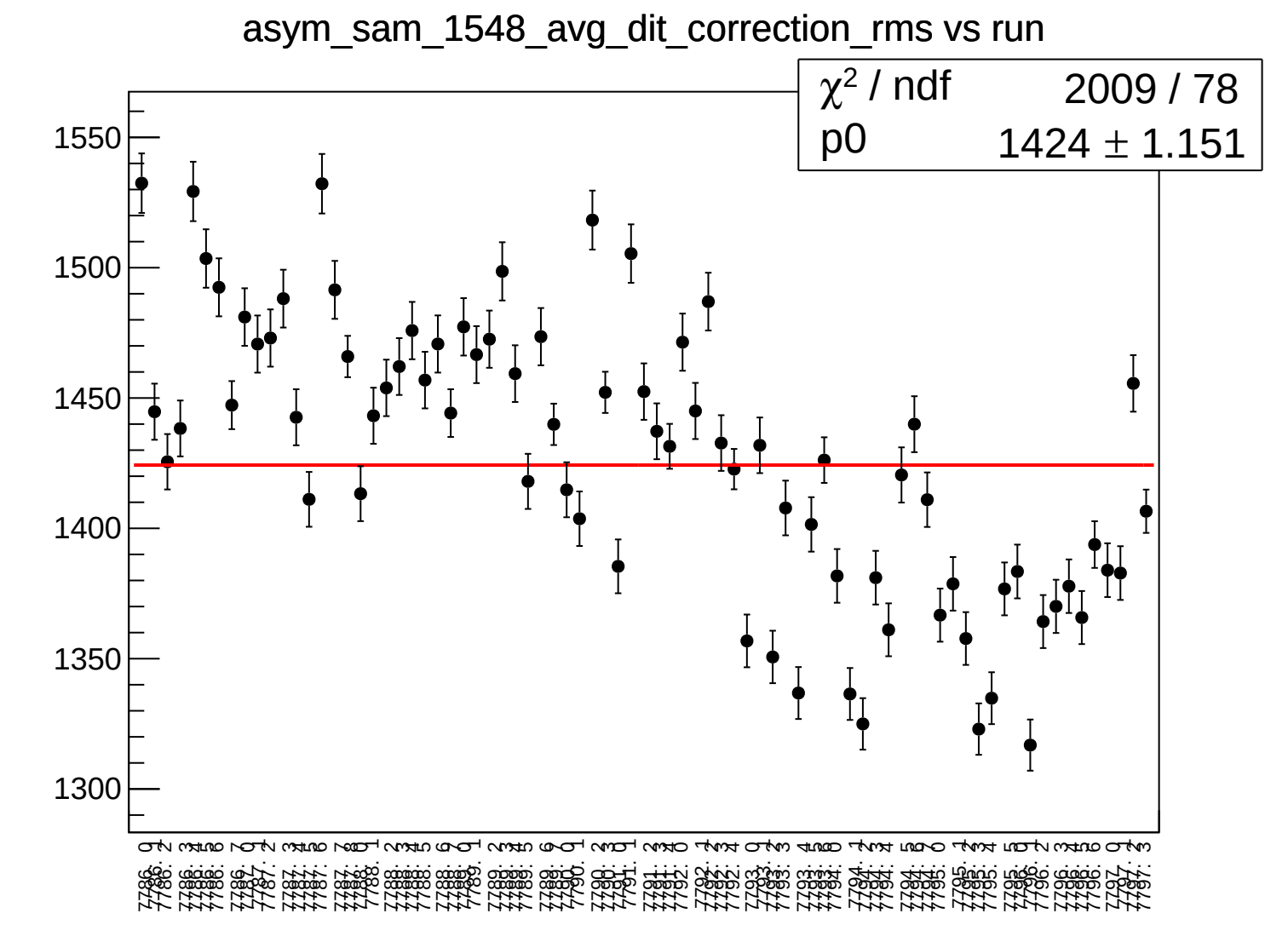

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 61.04 / 78
p0 −175.5 ± 171.1
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 6.018
Std Dev 27.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

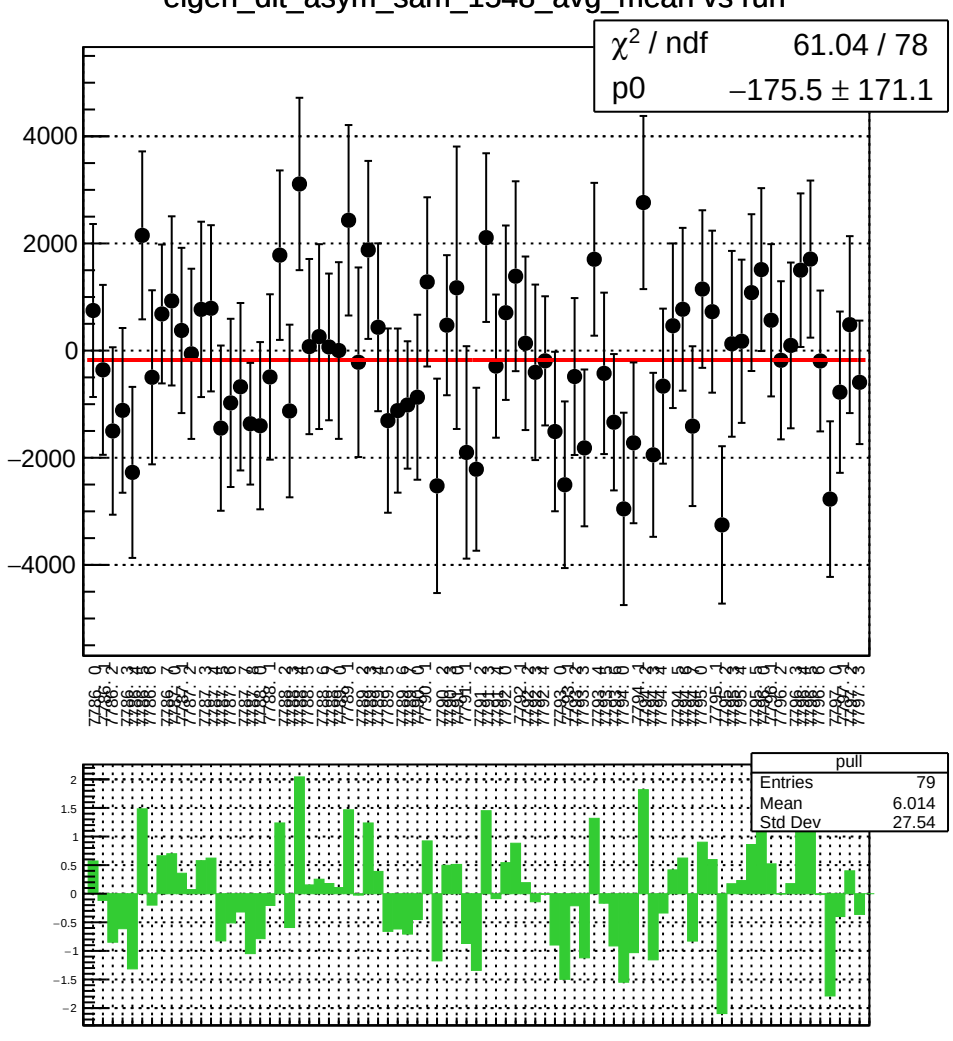

pull1D
Entries 79
Mean 0.01135
Std Dev 0.8789
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

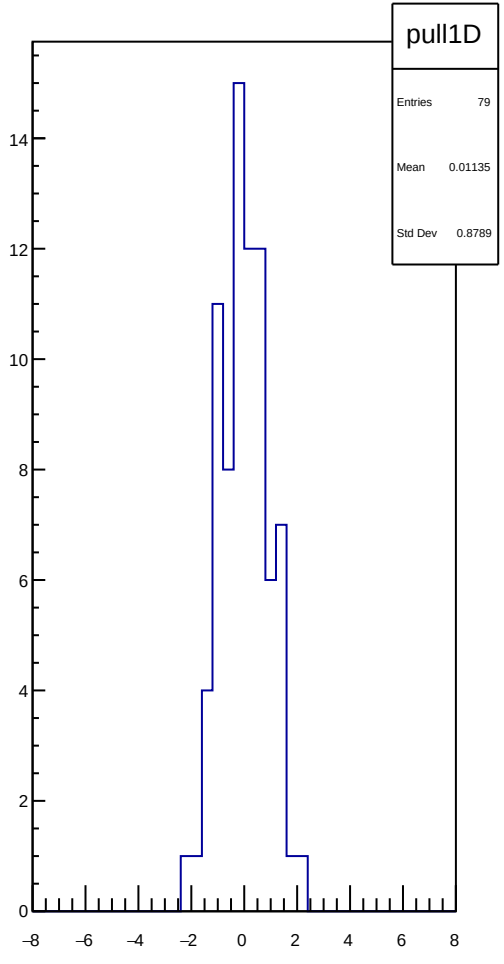

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 9012 / 78
p0 149.4 ± 0.121
260
240
220
200
180
160
140

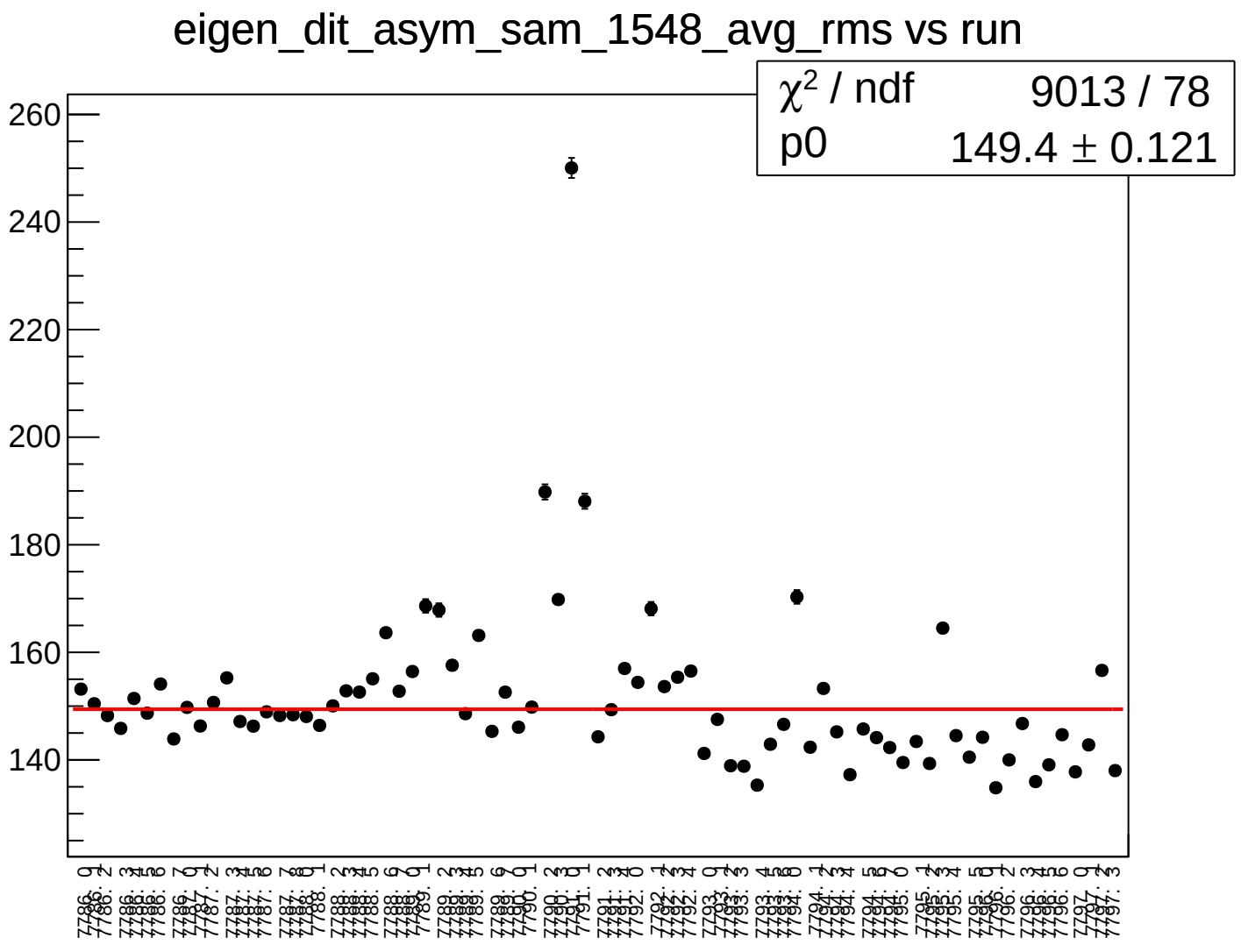

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 66.16 / 78
p0 −2459 ± 1627
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −38
Std Dev 29.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

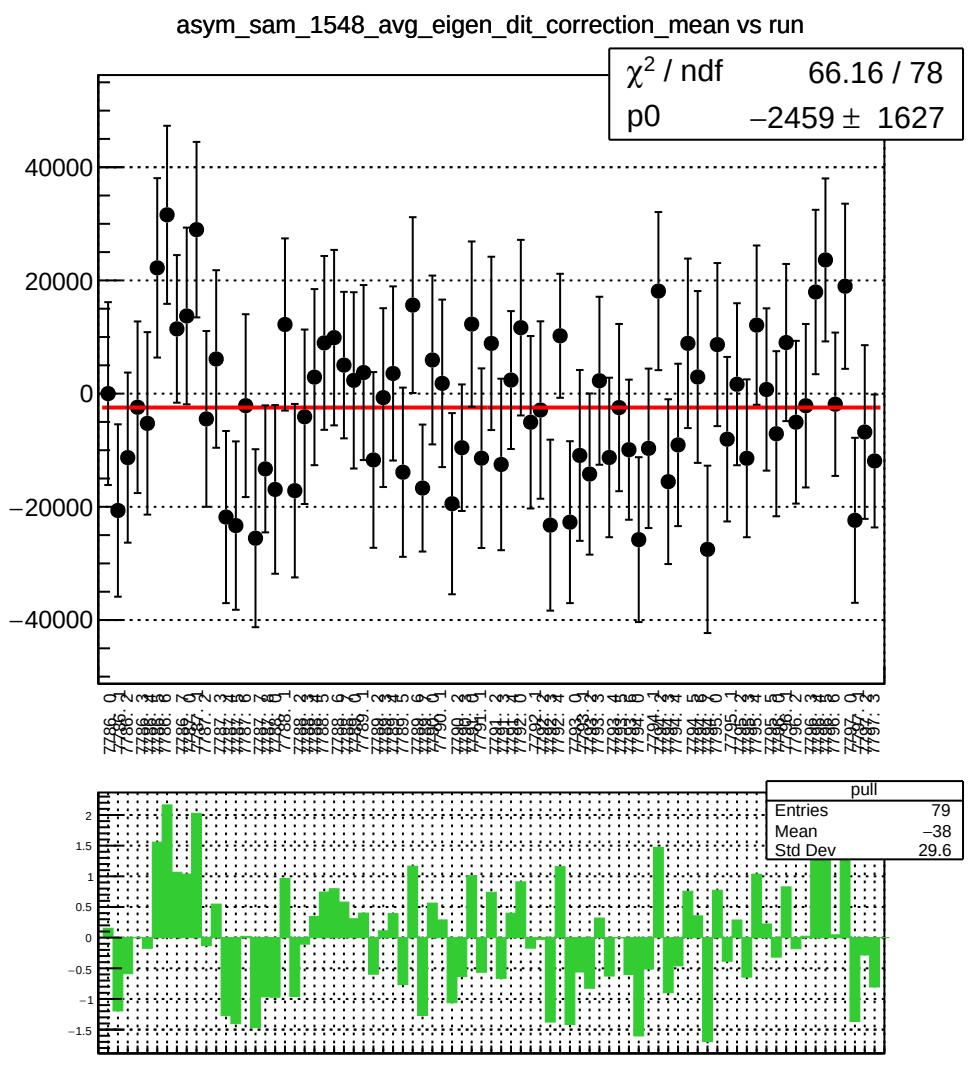

pull1D
Entries 79
Mean 0.009056
Std Dev 0.9151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

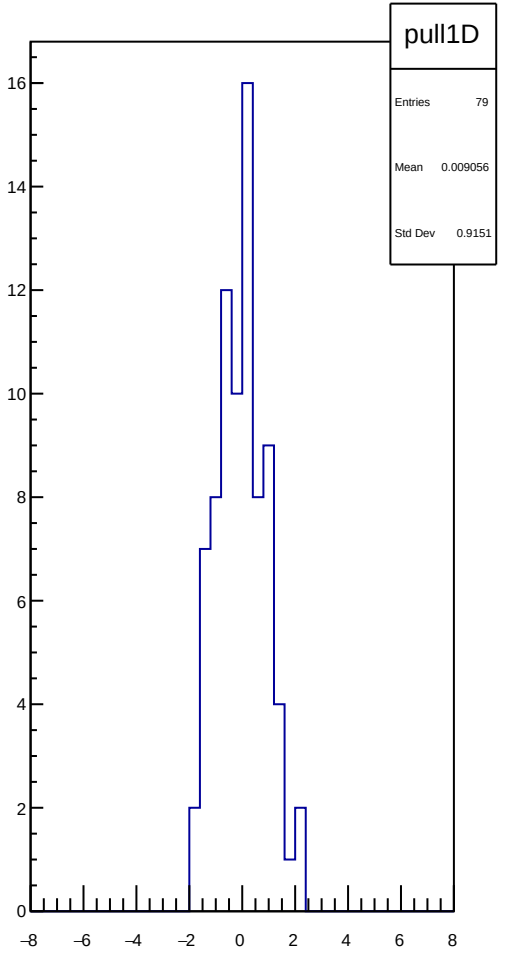

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 2009 / 78
p0 1424 ± 1.151
1550
1500
1450
1400
1350
1300

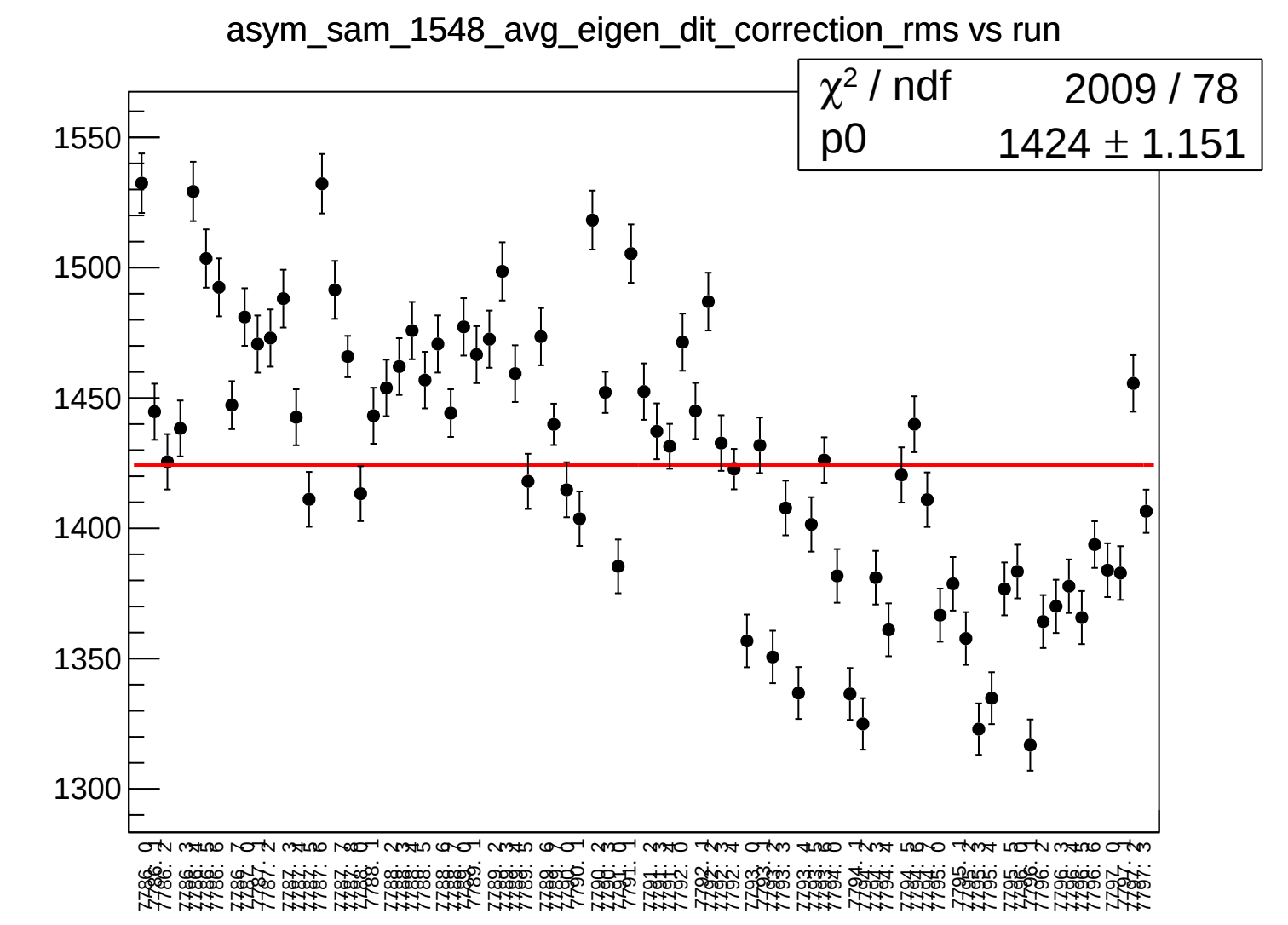

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 61.04 / 78
p0 −175.5 ± 171.1
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 6.014
Std Dev 27.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

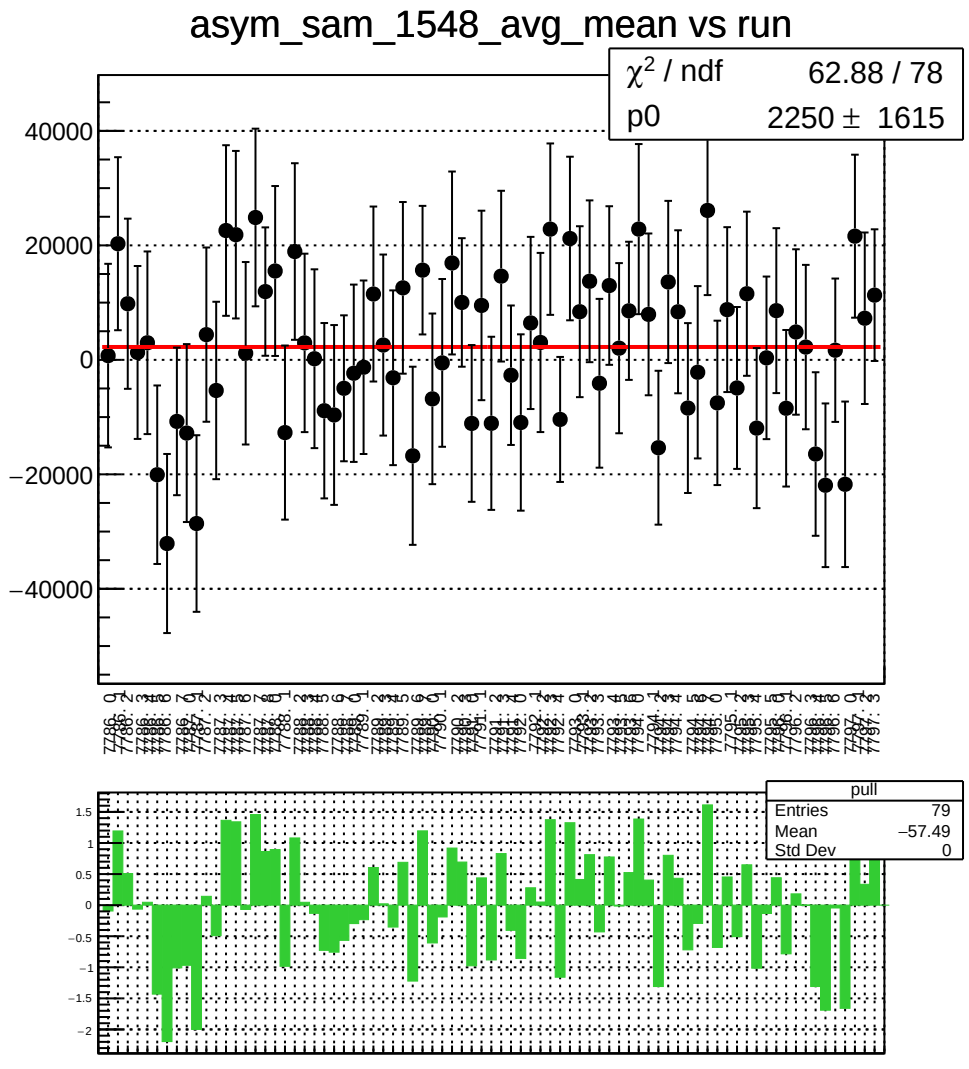

pull1D
Entries 79
Mean 0.01135
Std Dev 0.8789
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

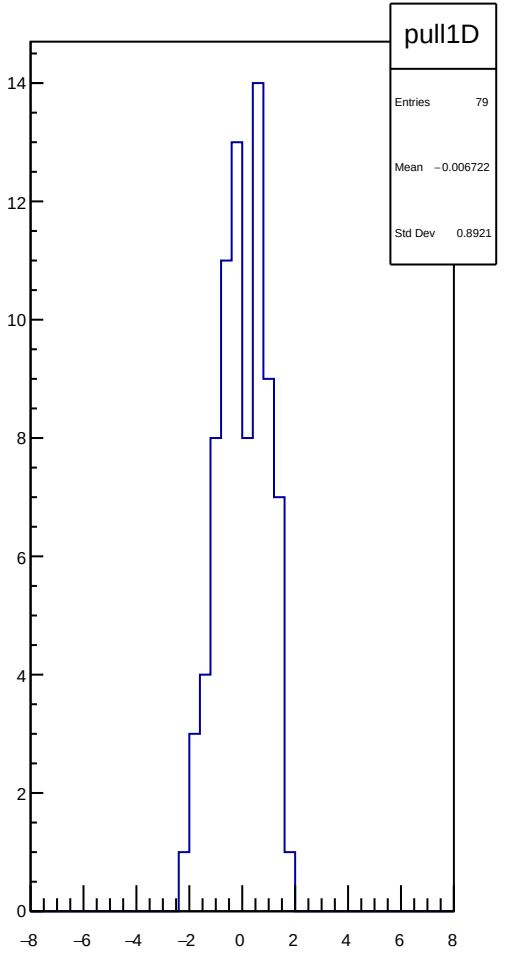

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 9013 / 78
p0 149.4 ± 0.121
260
240
220
200
180
160
140

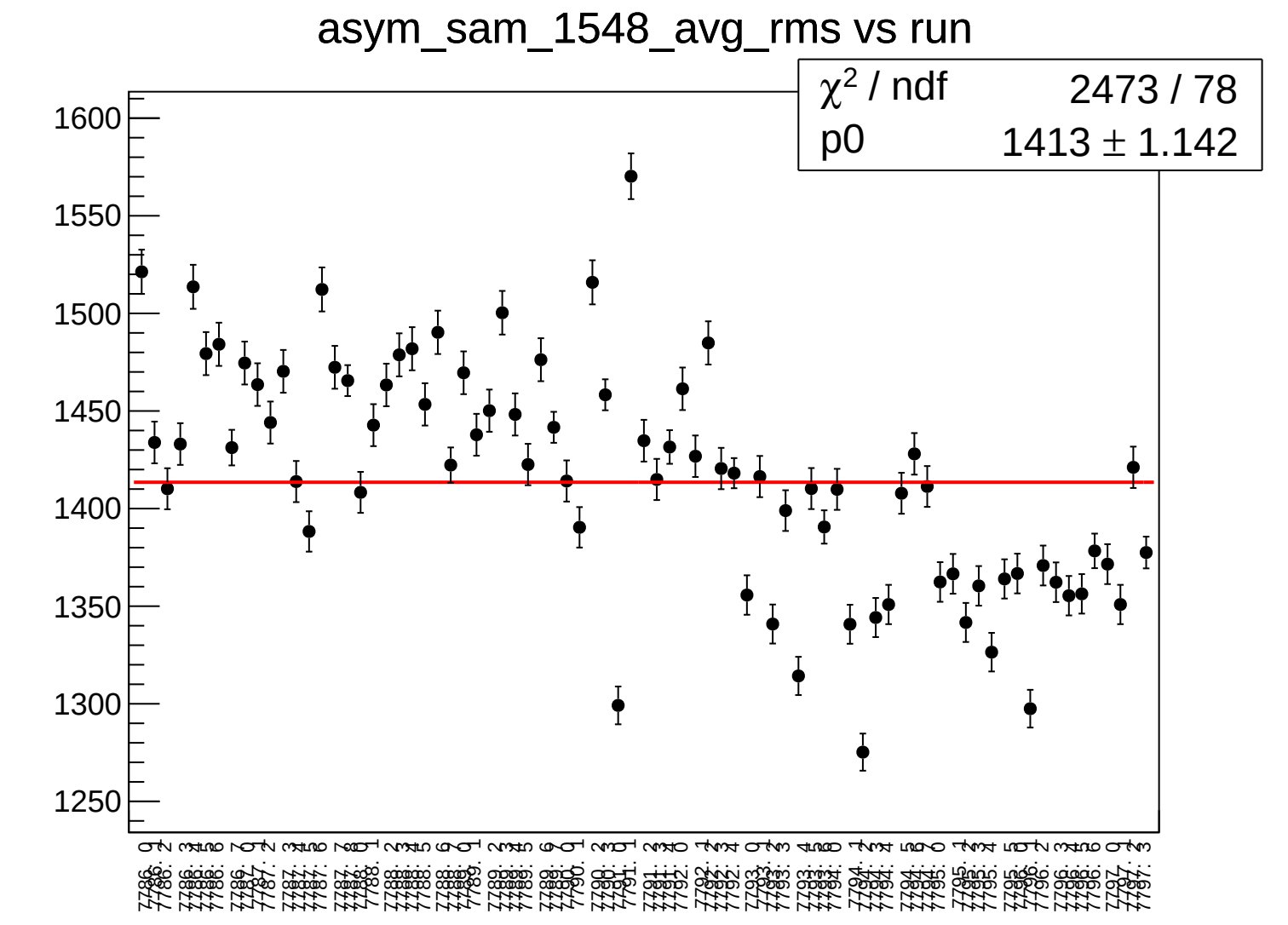

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.16 / 78
p0 −2459 ± 1627
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −38
Std Dev 29.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

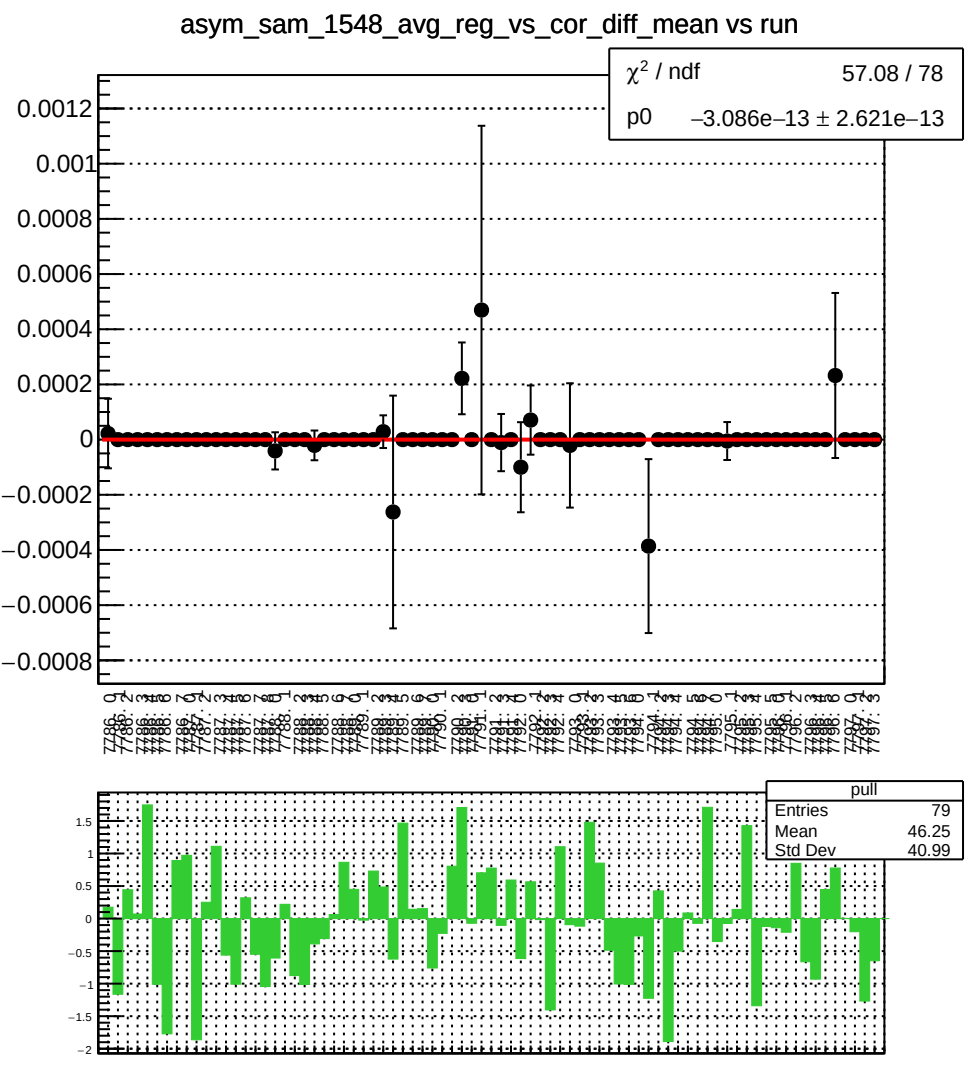

pull1D
Entries 79
Mean 0.009056
Std Dev 0.9151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

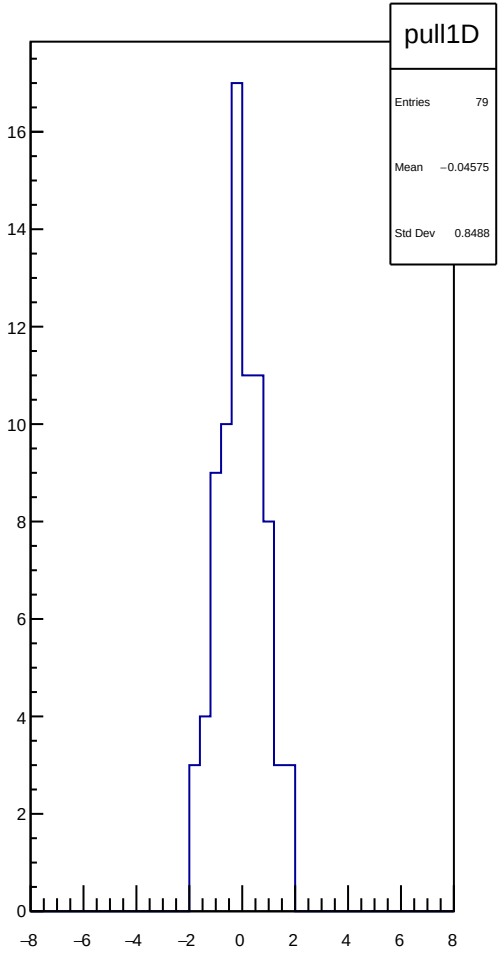

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 2009 / 78
p0 1424 ± 1.151
1550
1500
1450
1400
1350
1300

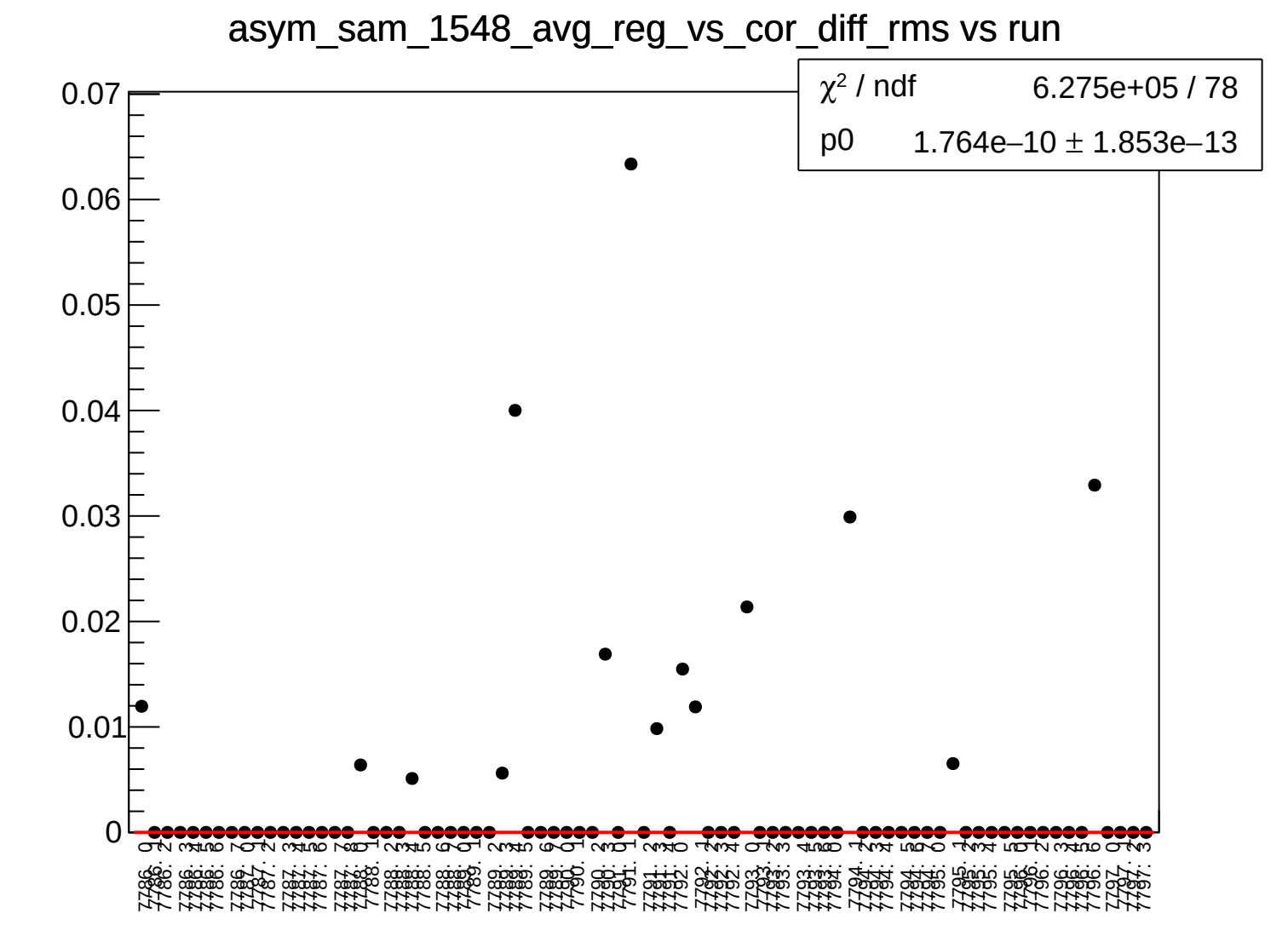

asym_sam_1548_avg_mean vs run
χ² / ndf 62.88 / 78
p0 2250 ± 1615
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −57.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

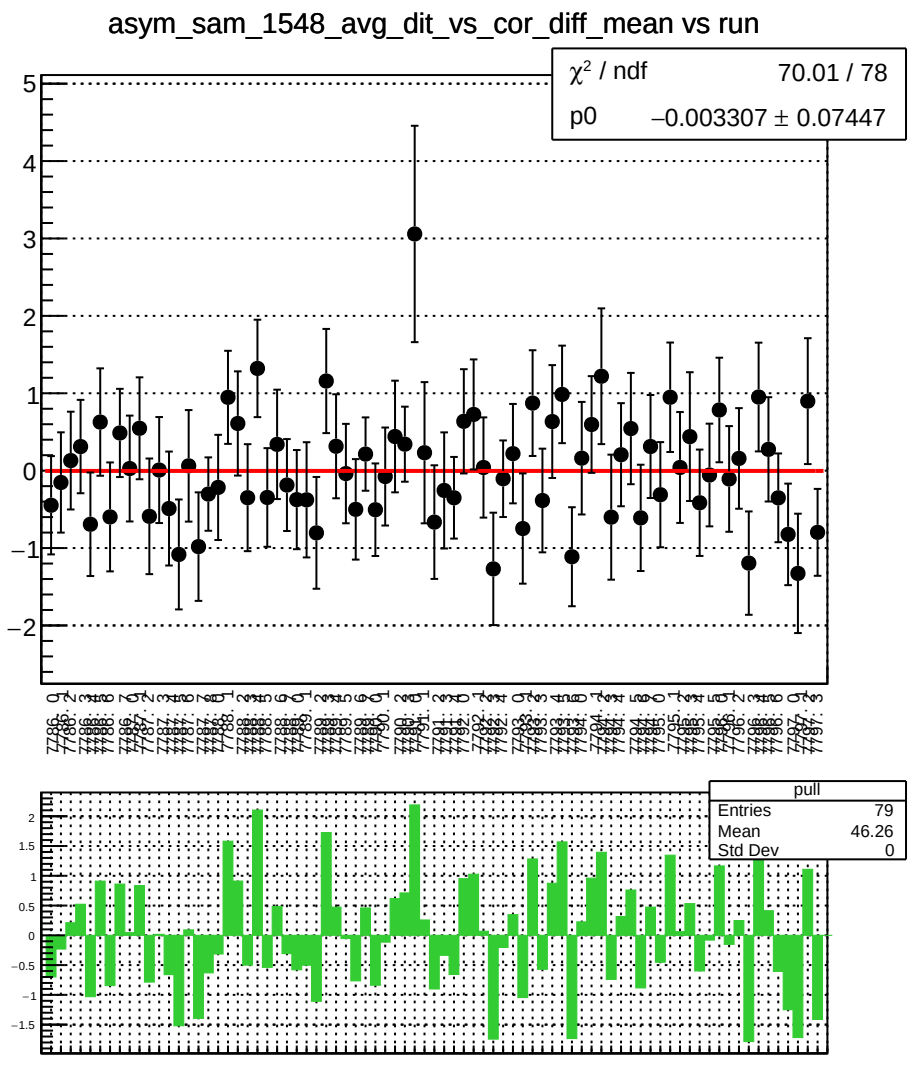

pull1D
Entries 79
Mean −0.006722
Std Dev 0.8921
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

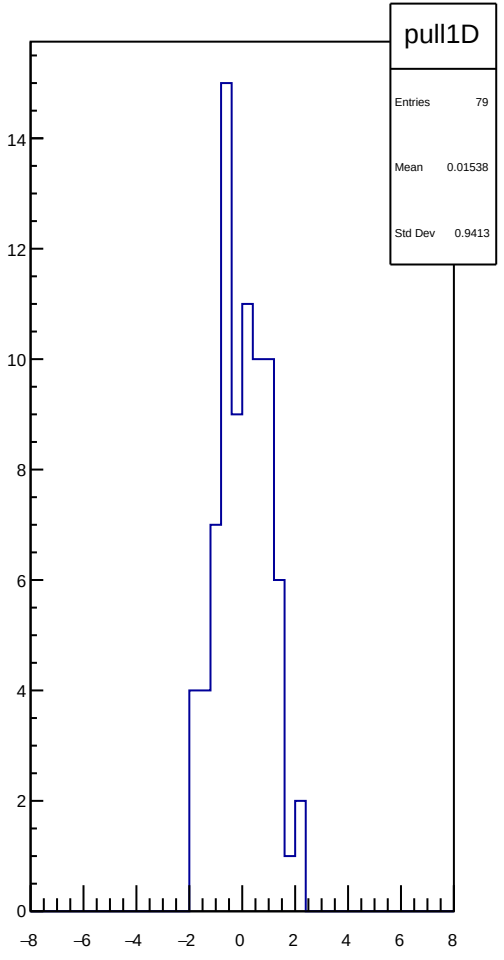

asym_sam_1548_avg_rms vs run
χ² / ndf 2473 / 78
p0 1413 ± 1.142
1600
1550
1500
1450
1400
1350
1300
1250

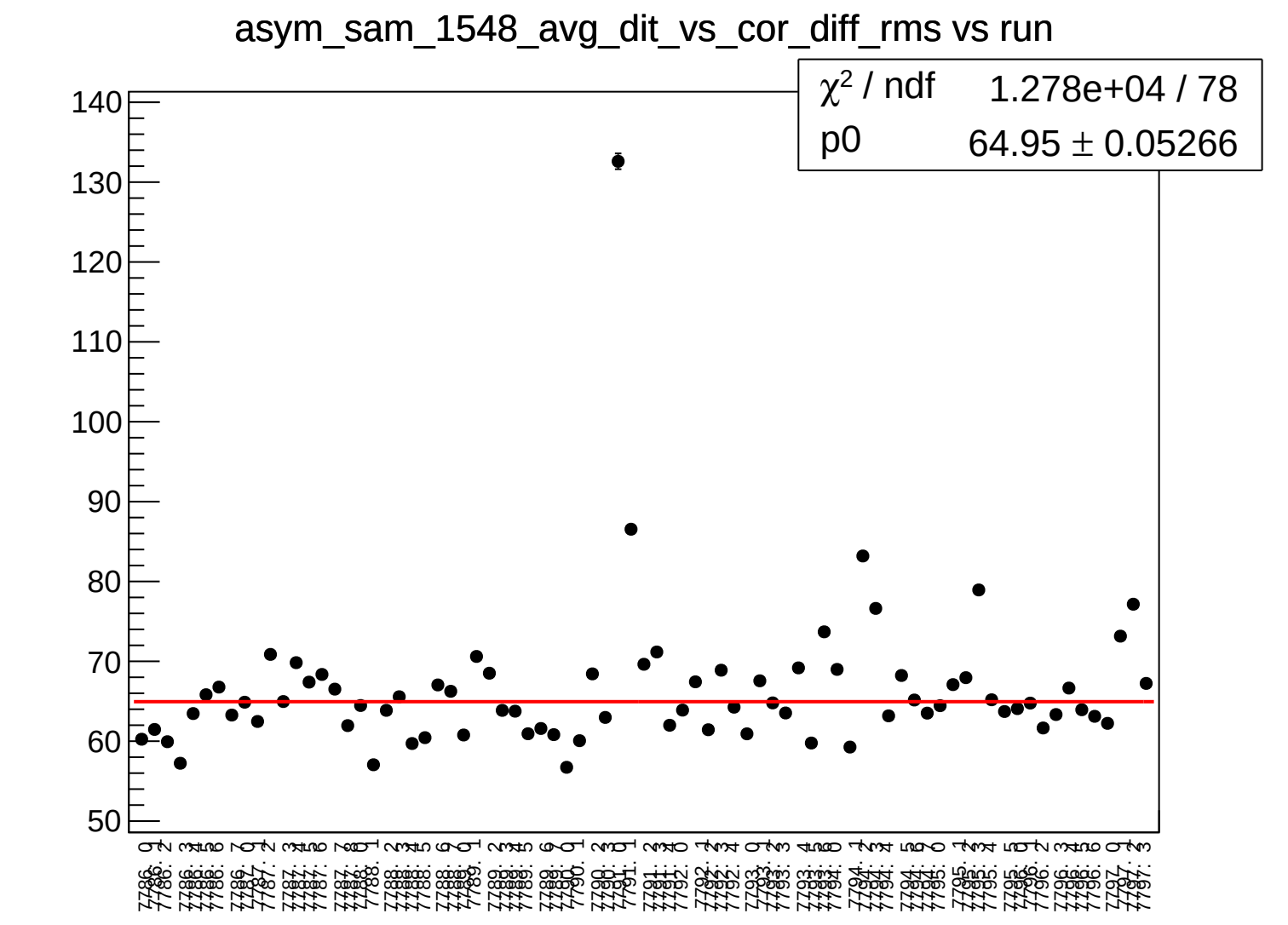

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 57.08 / 78
p0 −3.086e−13 ± 2.621e−13
pull
Entries 79
Mean 46.25
Std Dev 40.99

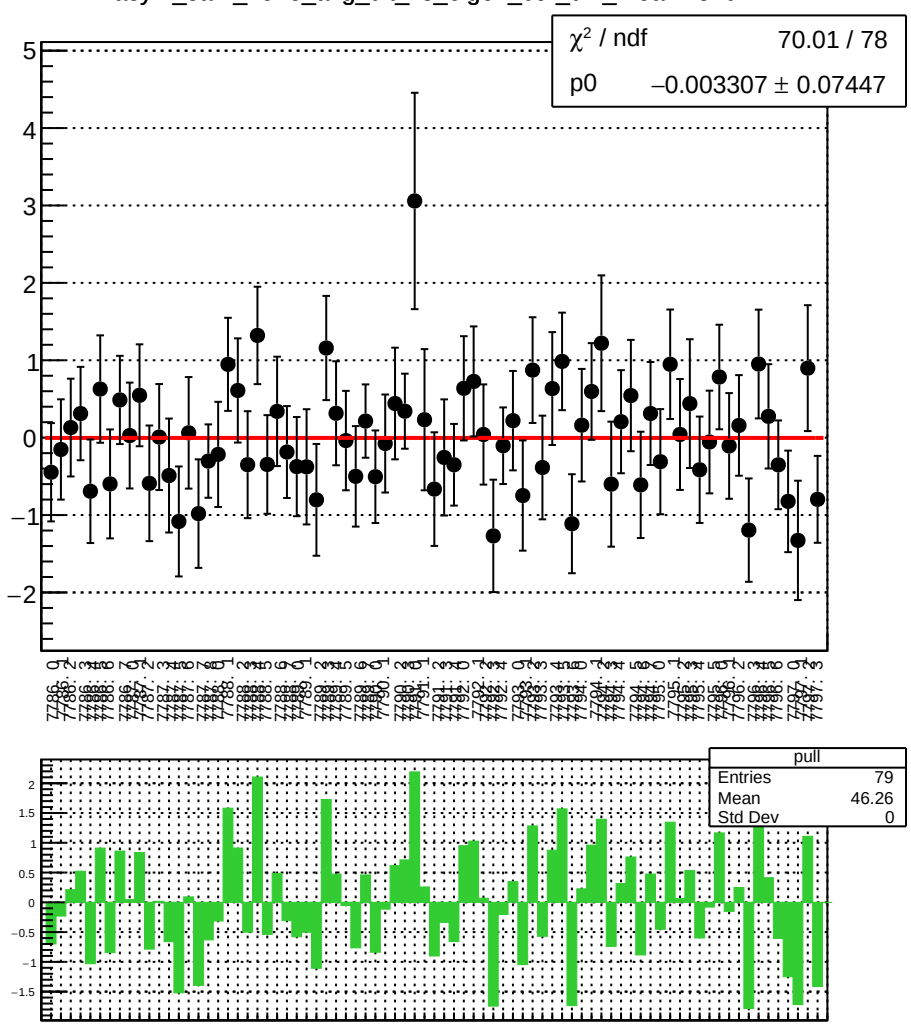

pull1D
Entries 79
Mean −0.04575
Std Dev 0.8488

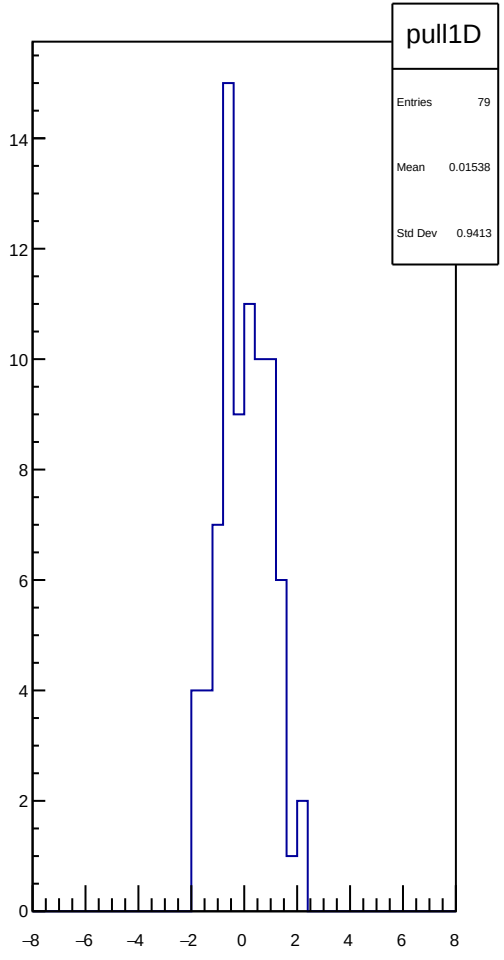

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.275e+05 / 78
p0 1.764e−10 ± 1.853e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

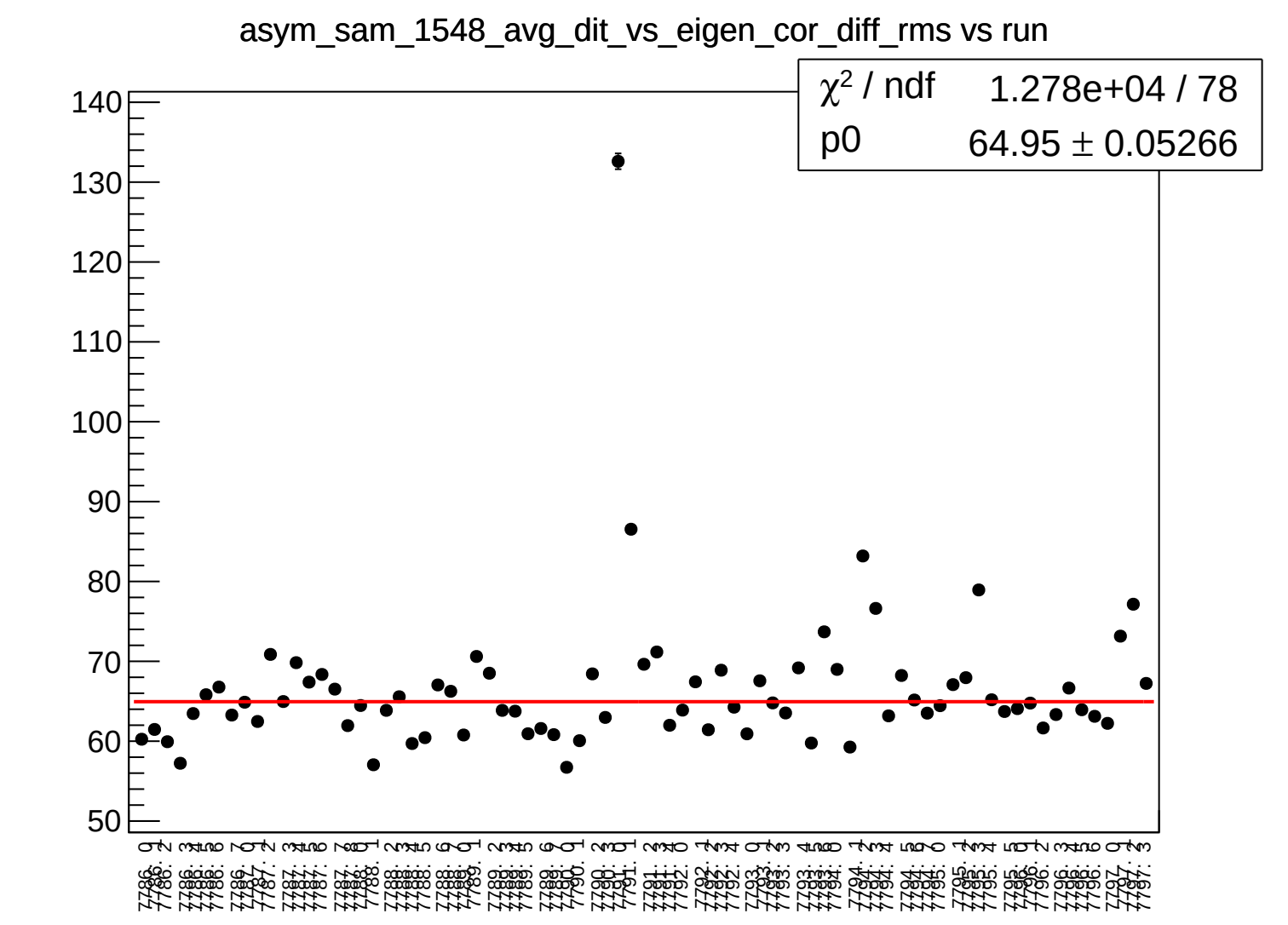

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.01 / 78
p0 −0.003307 ± 0.07447
pull
Entries 79
Mean 46.26
Std Dev 0

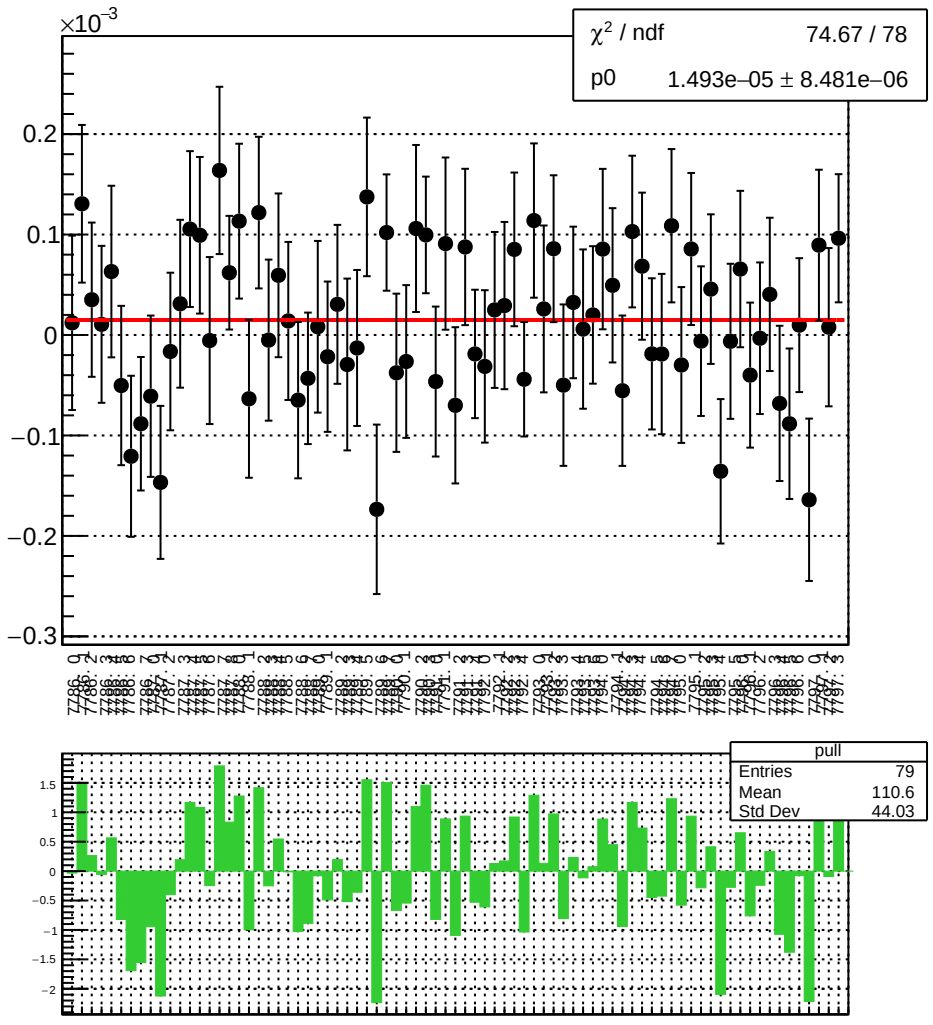

pull1D
Entries 79
Mean 0.01538
Std Dev 0.9413

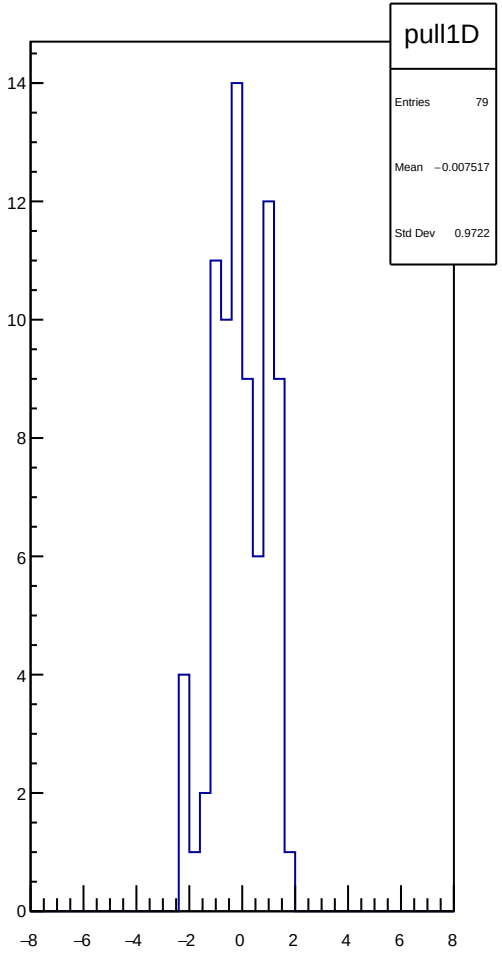

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.278e+04 / 78
p0 64.95 ± 0.05266
140
130
120
110
100
90
80
70
60
50

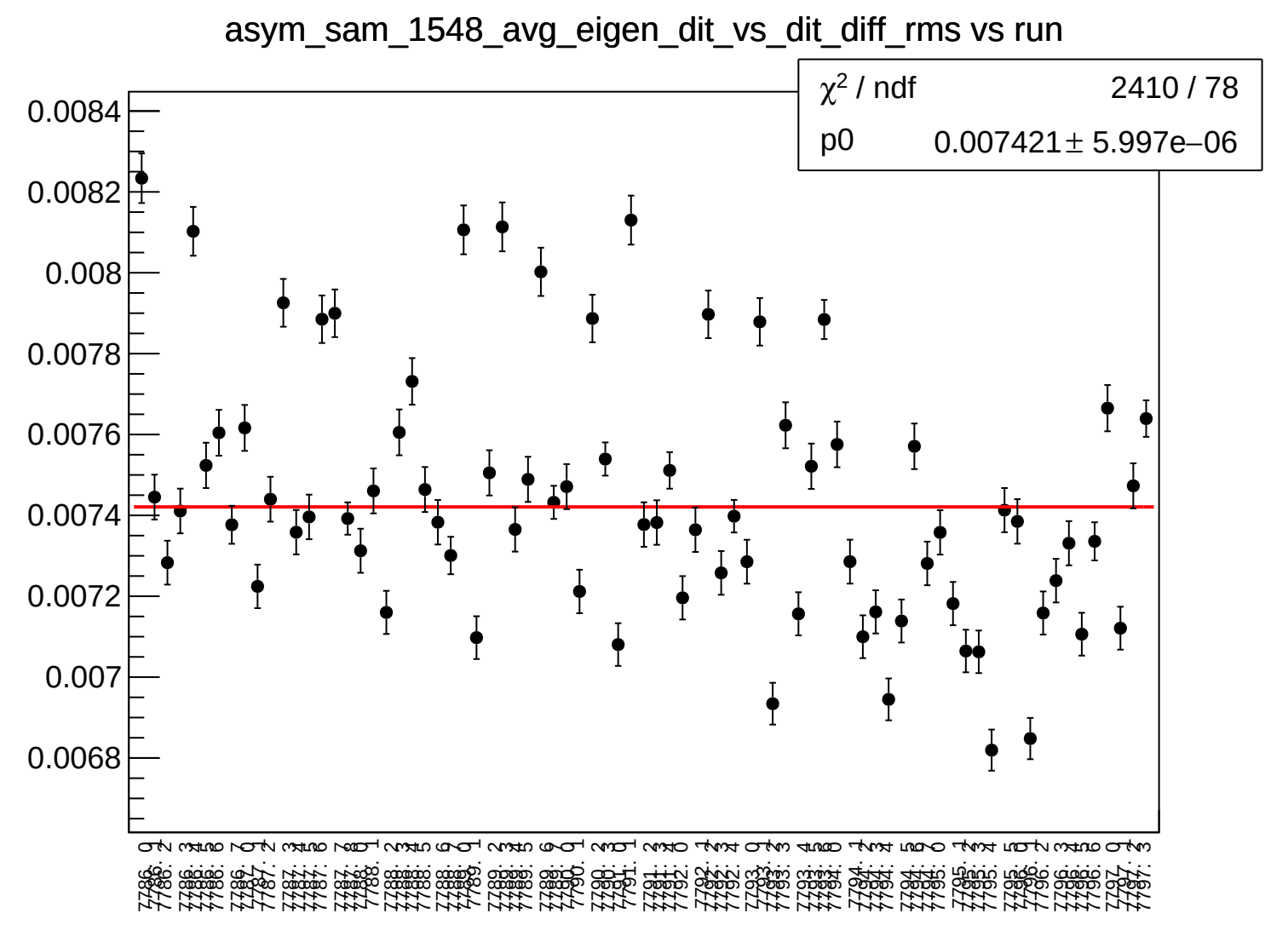

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.01 / 78
p0 −0.003307 ± 0.07447
pull
Entries 79
Mean 46.26
Std Dev 0

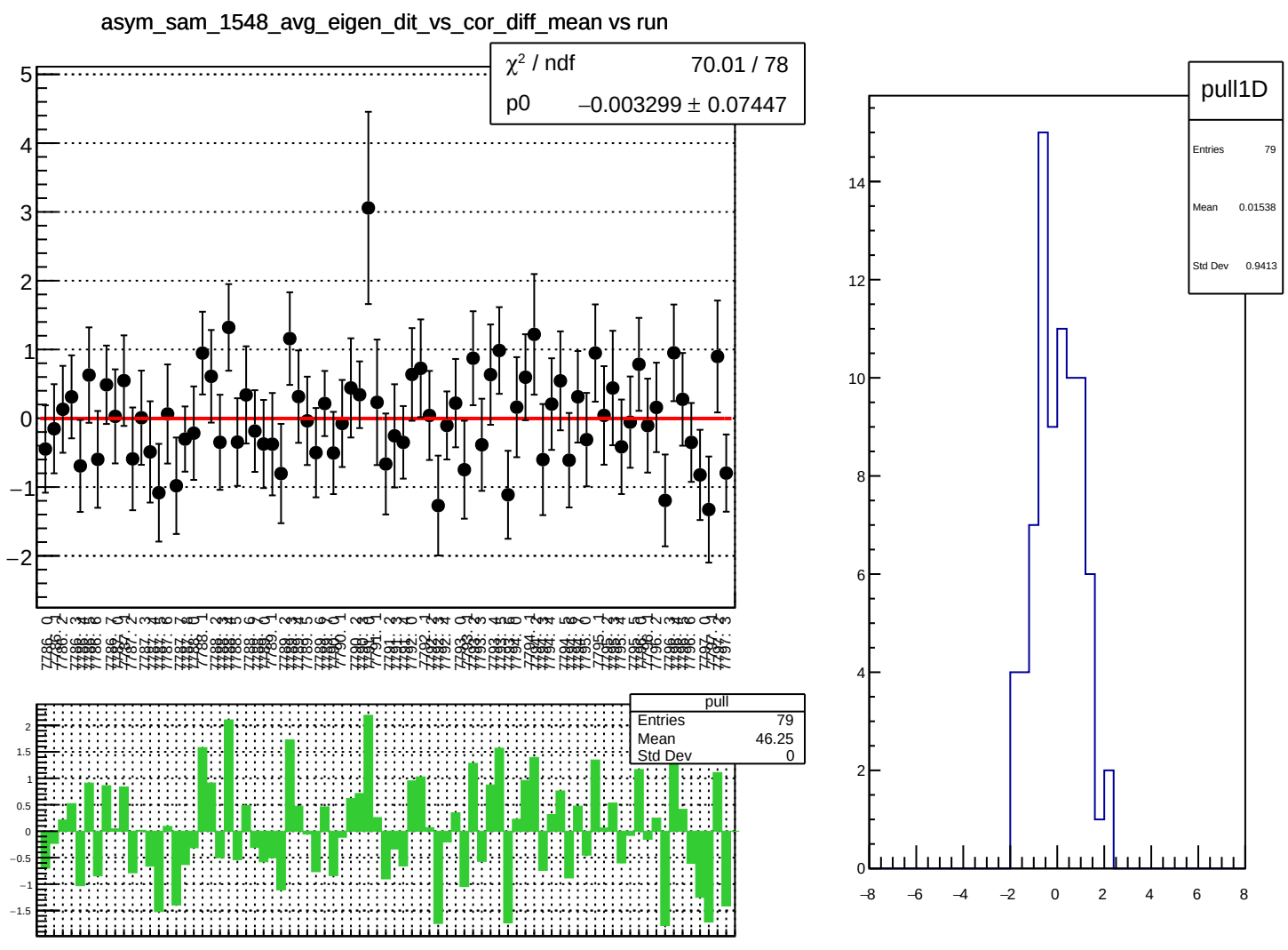

pull1D
Entries 79
Mean 0.01538
Std Dev 0.9413

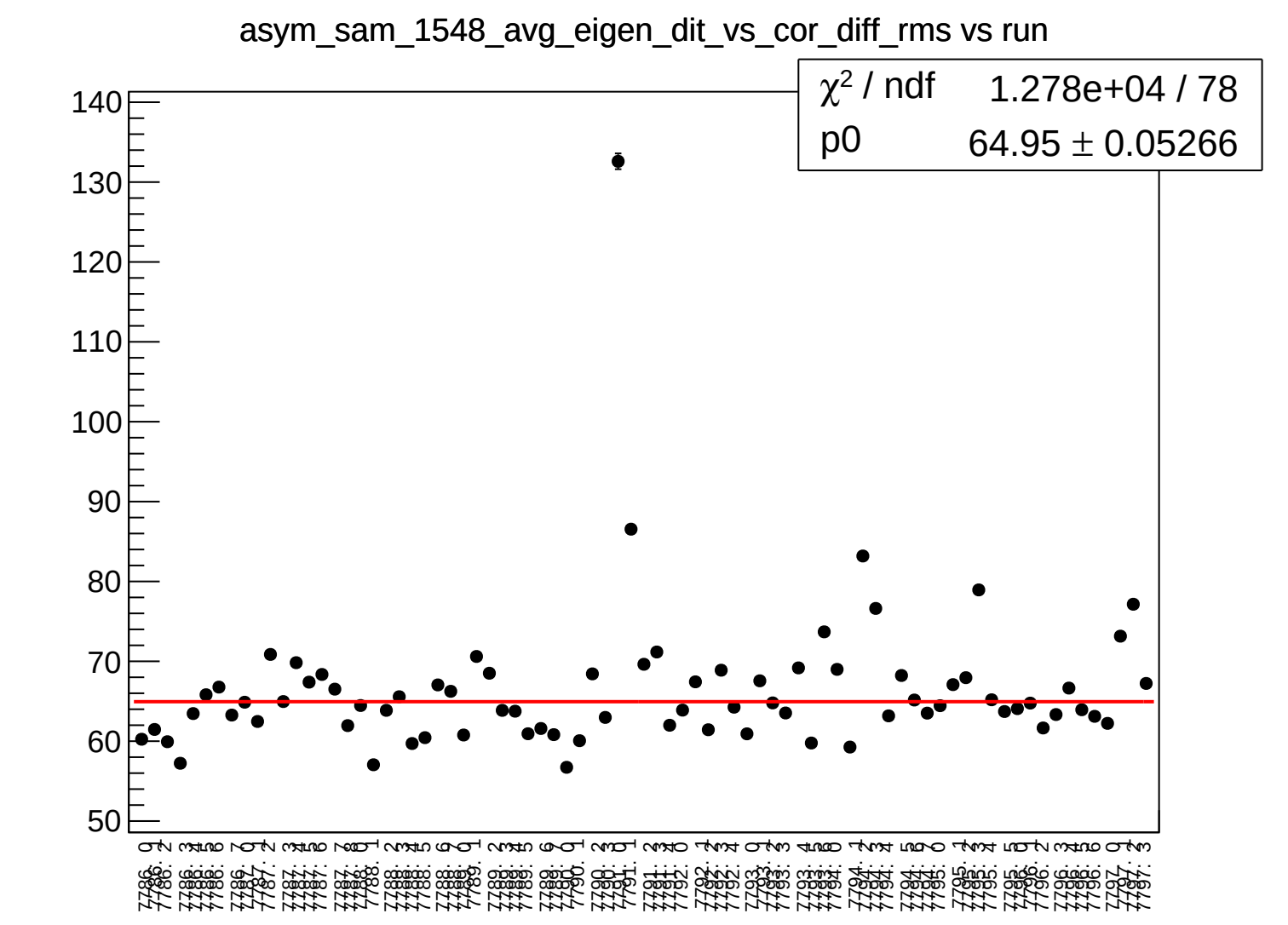

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.278e+04 / 78
p0 64.95 ± 0.05266
140
130
120
110
100
90
80
70
60
50

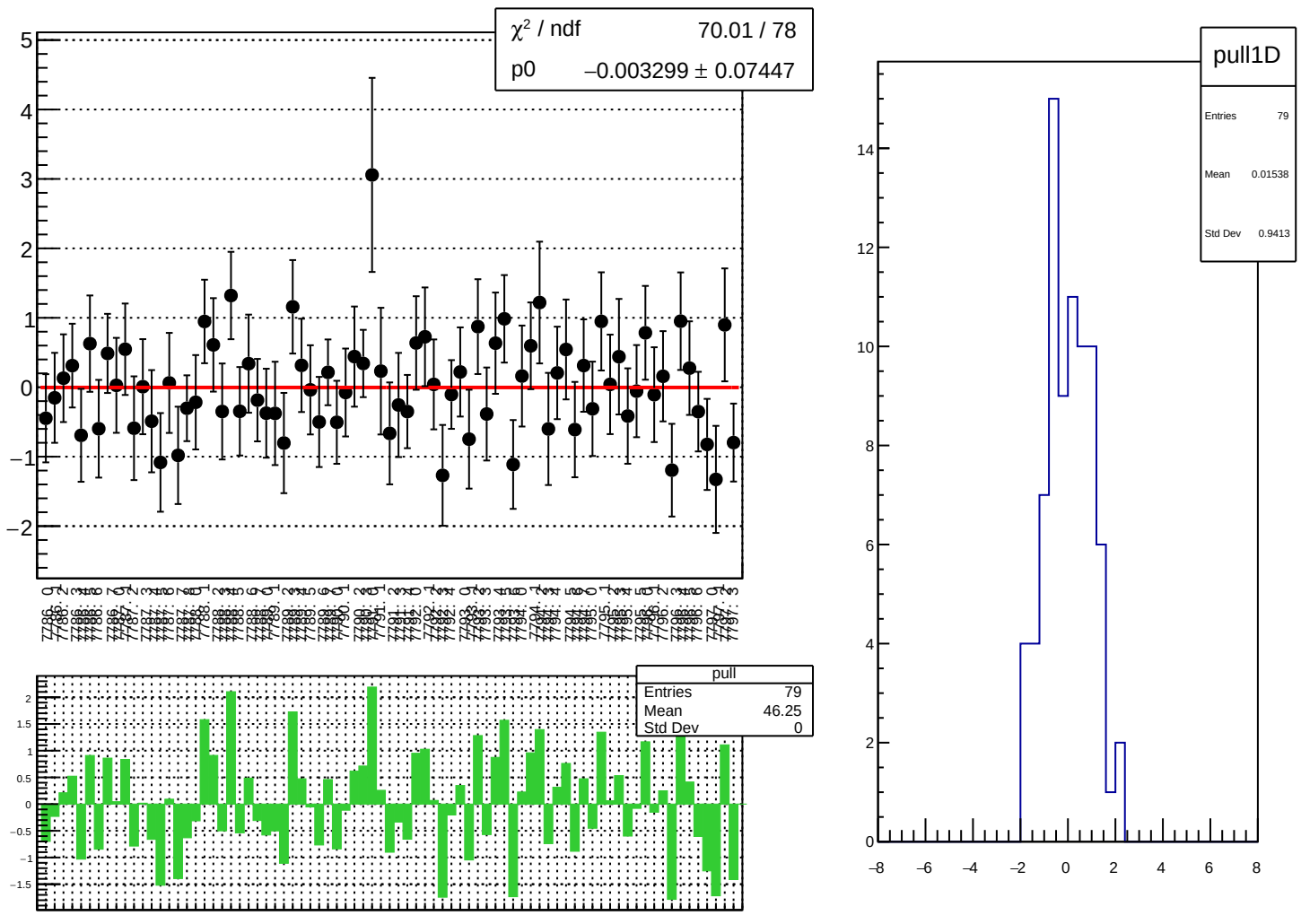

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.67 / 78
p0 1.493e−05 ± 8.481e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 79
Mean 110.6
Std Dev 44.03
1.5
1
0.5
0
−0.5
−1
−1.5
−2

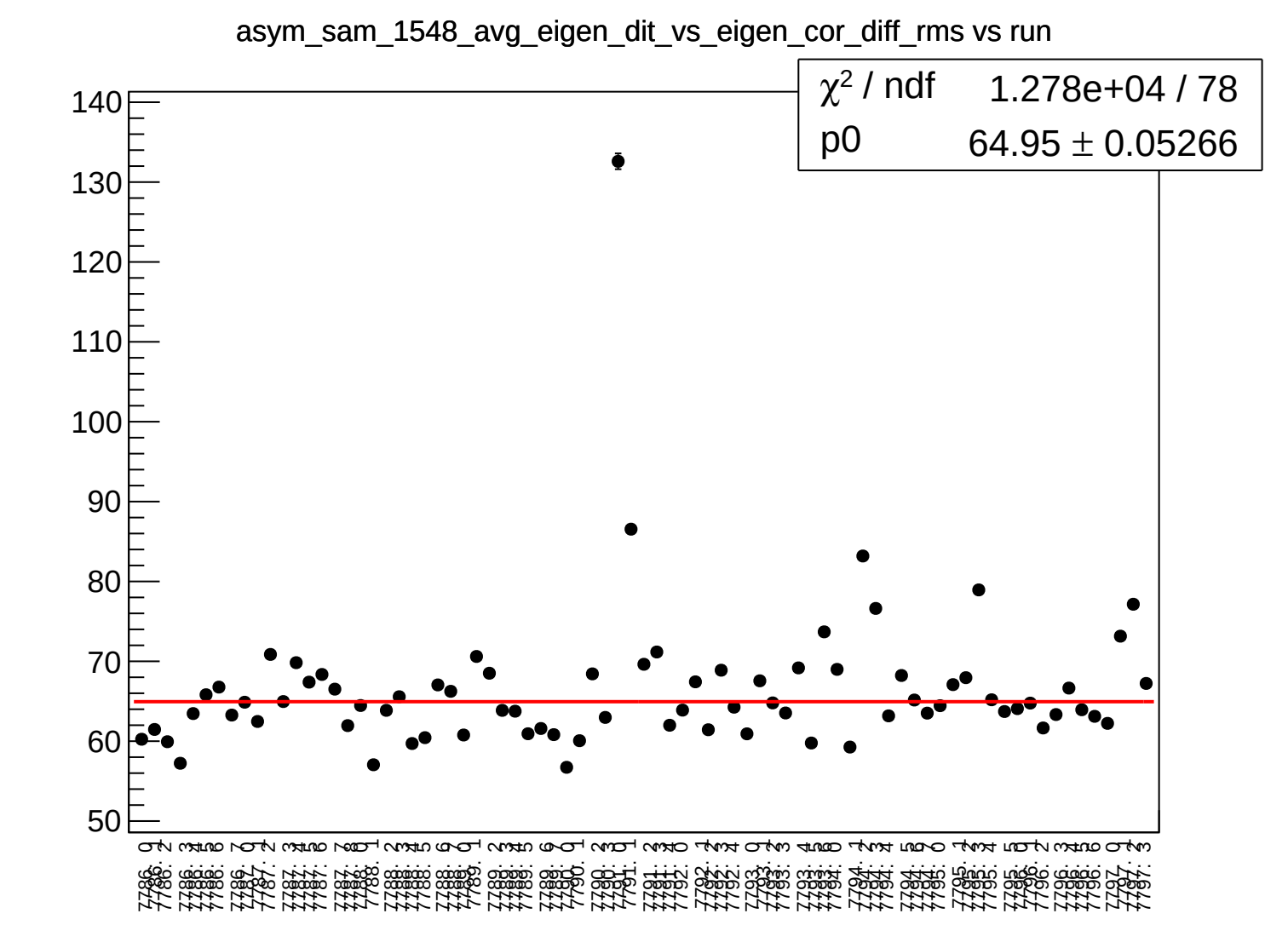

pull1D
Entries 79
Mean −0.007517
Std Dev 0.9722
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

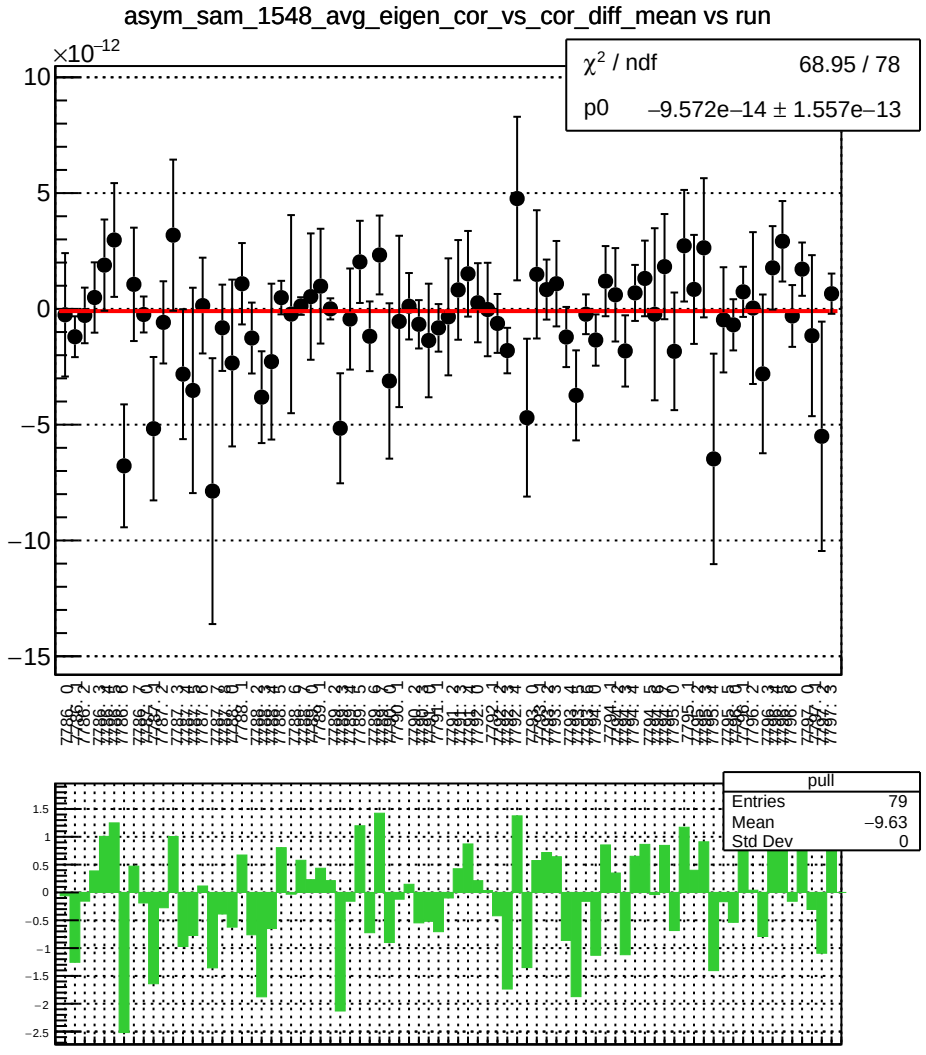

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2410 / 78
p0 0.007421 ± 5.997e−06
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068

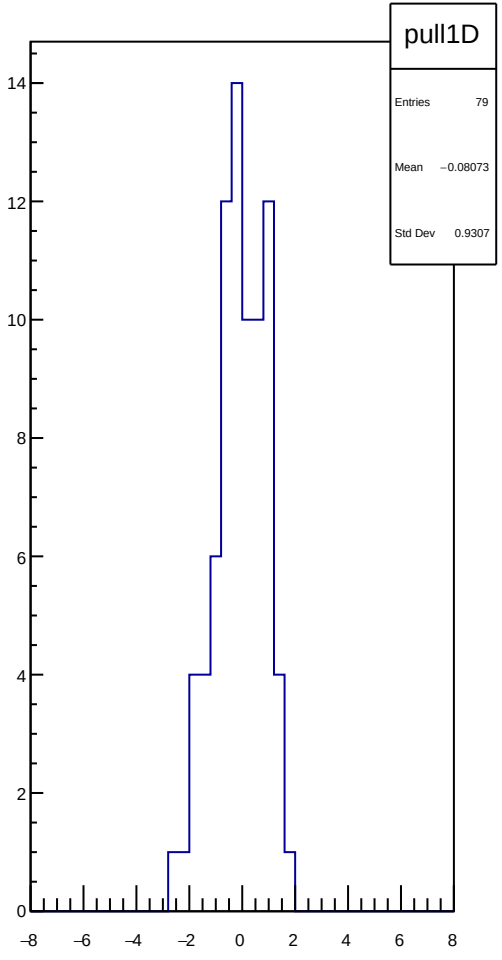

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.01 / 78
p0 −0.003299 ± 0.07447
pull
Entries 79
Mean 46.25
Std Dev 0
pull1D
Entries 79
Mean 0.01538
Std Dev 0.9413

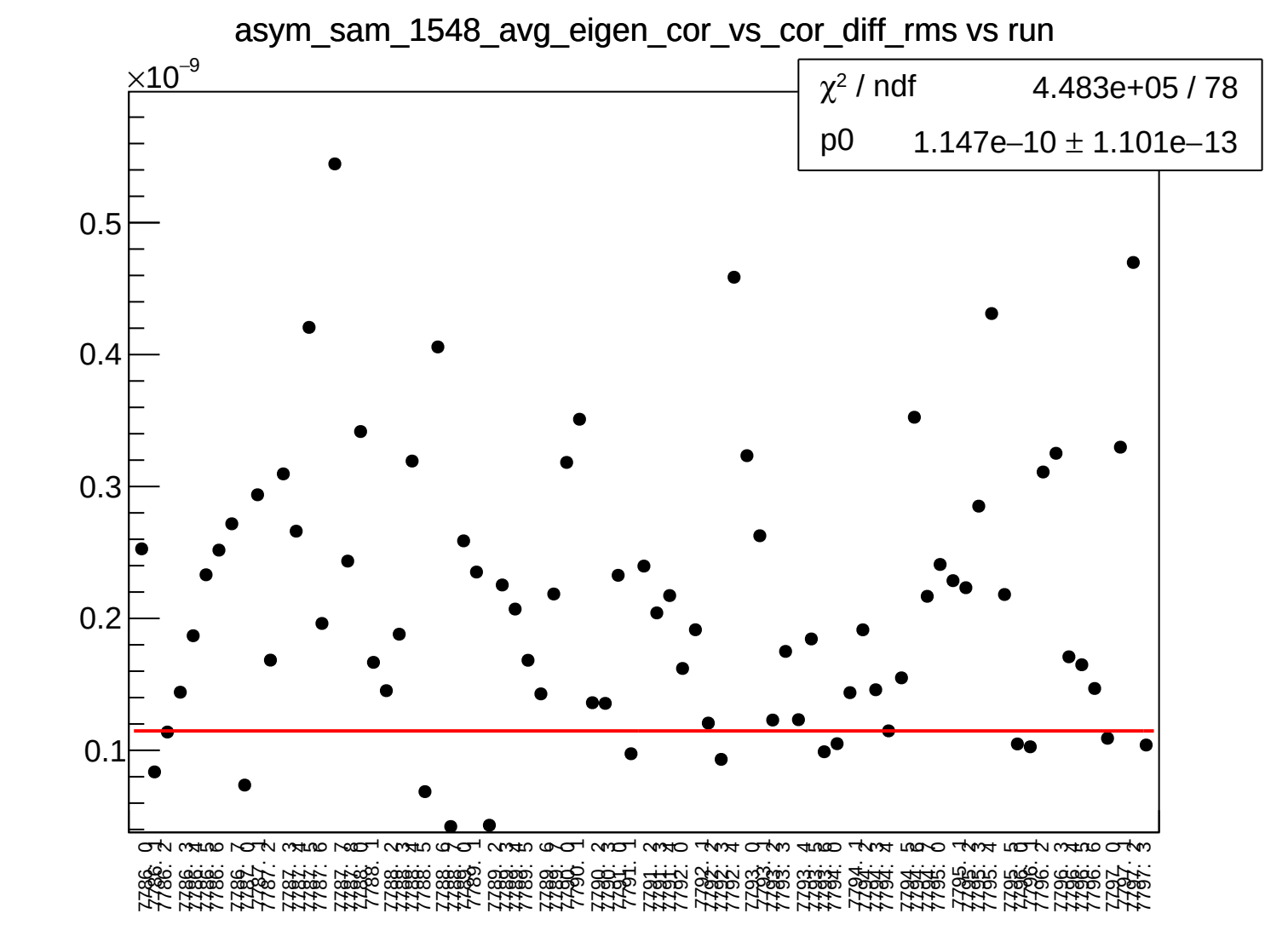

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.278e+04 / 78
p0 64.95 ± 0.05266
140
130
120
110
100
90
80
70
60
50

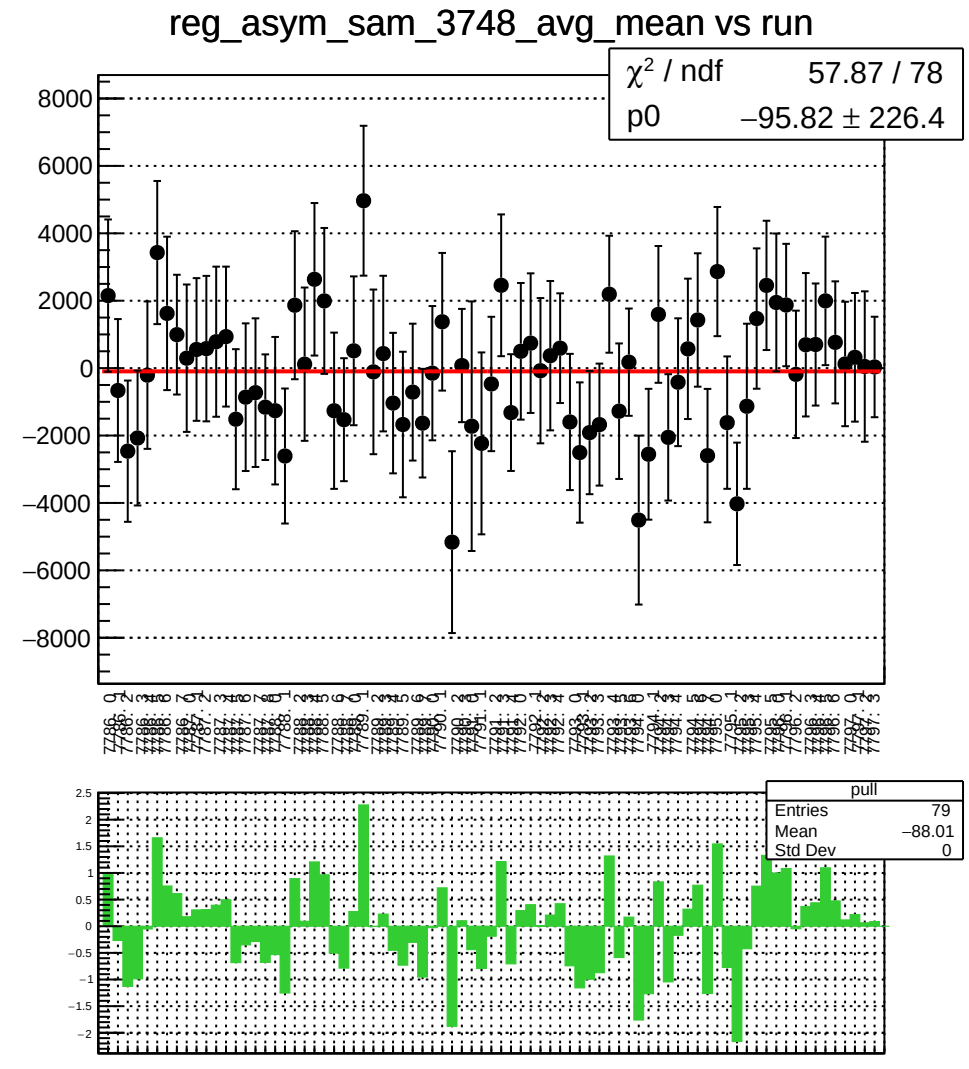

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.01 / 78
p0 −0.003299 ± 0.07447
pull
Entries 79
Mean 46.25
Std Dev 0
pull1D
Entries 79
Mean 0.01538
Std Dev 0.9413

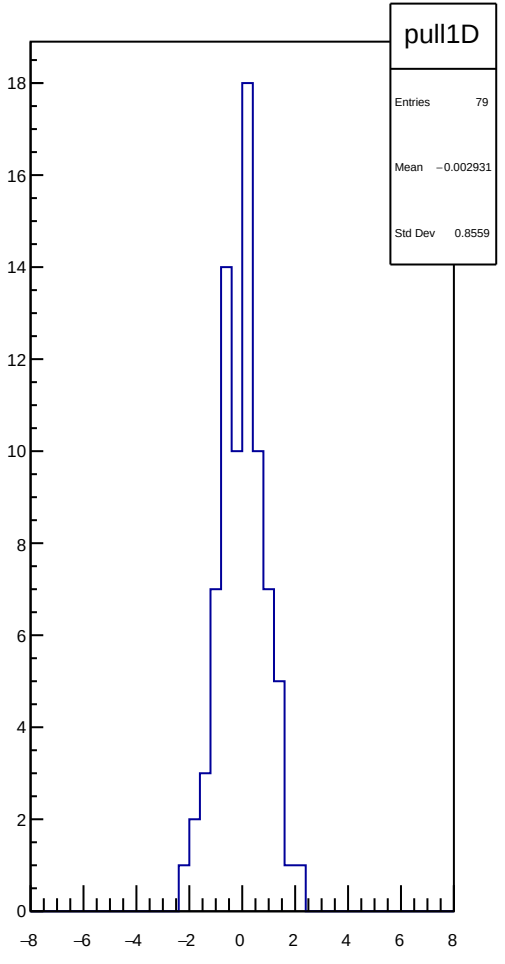

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.278e+04 / 78
p0 64.95 ± 0.05266
140
130
120
110
100
90
80
70
60
50

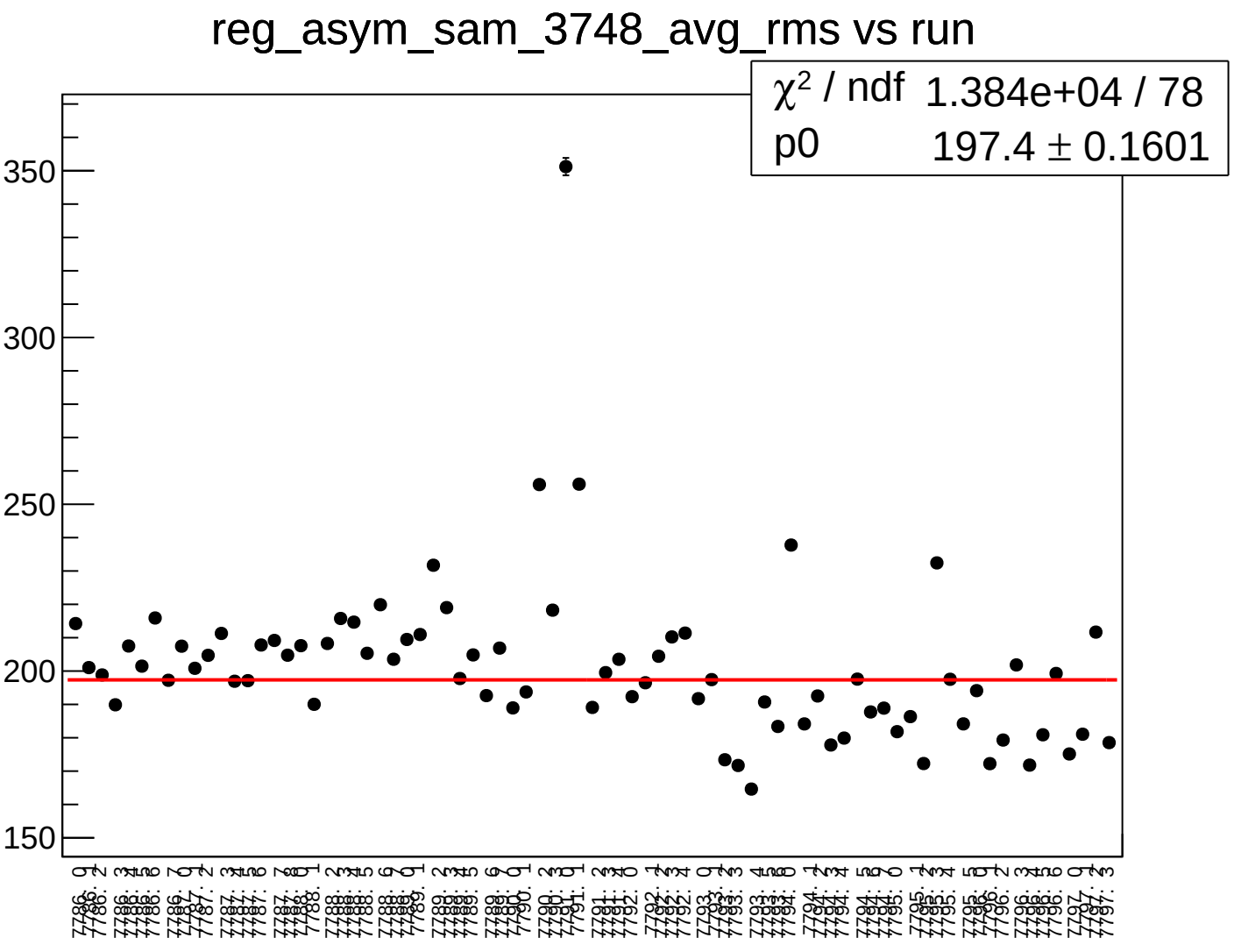

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.95 / 78
p0 −9.572e−14 ± 1.557e−13
pull
Entries 79
Mean −9.63
Std Dev 0

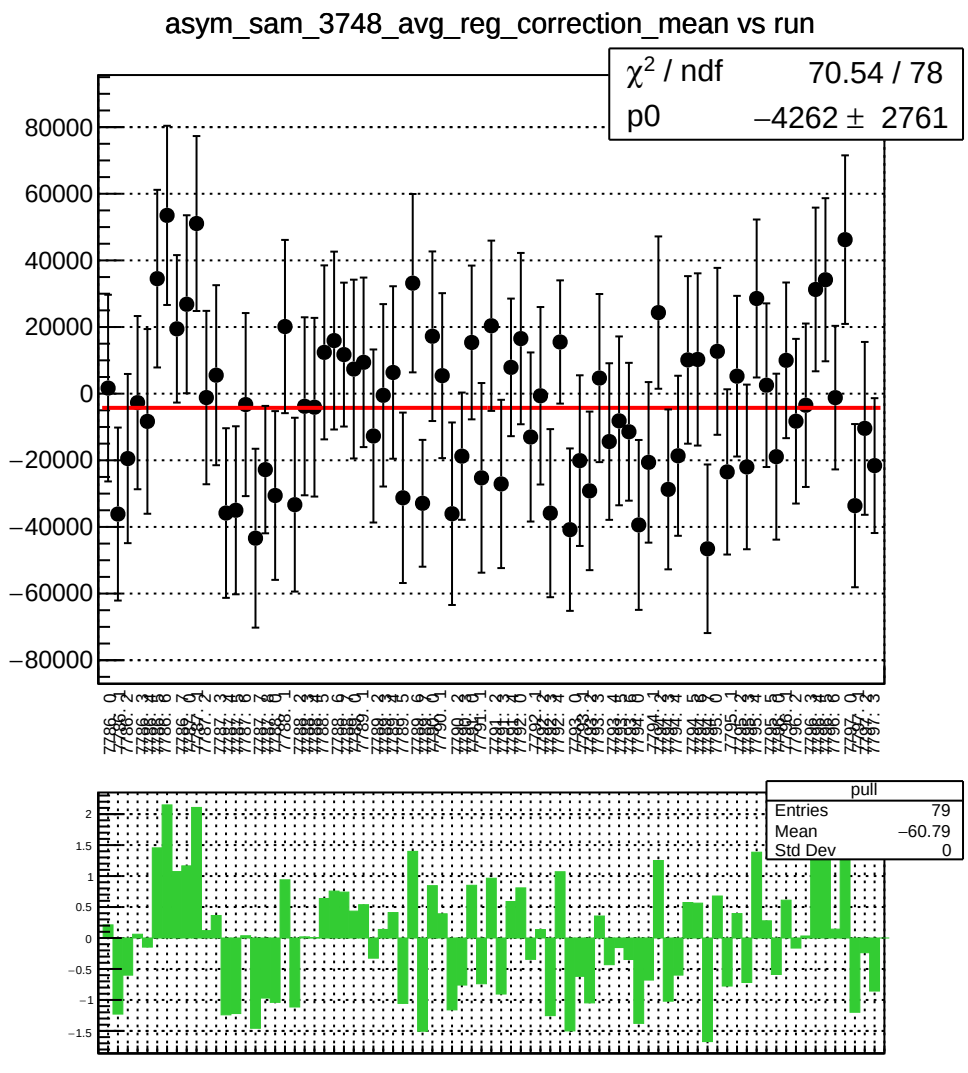

pull1D
Entries 79
Mean −0.08073
Std Dev 0.9307

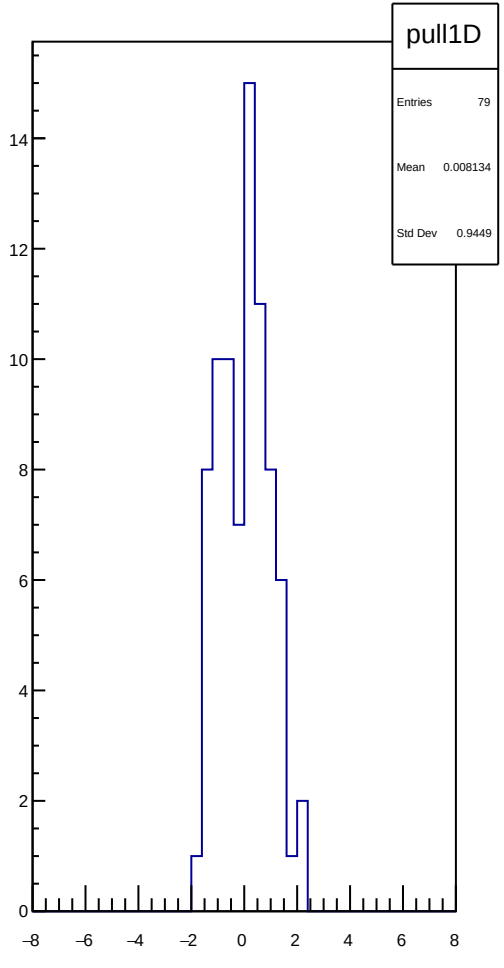

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.483e+05 / 78
p0 1.147e−10 ± 1.101e−13
0.5
0.4
0.3
0.2
0.1

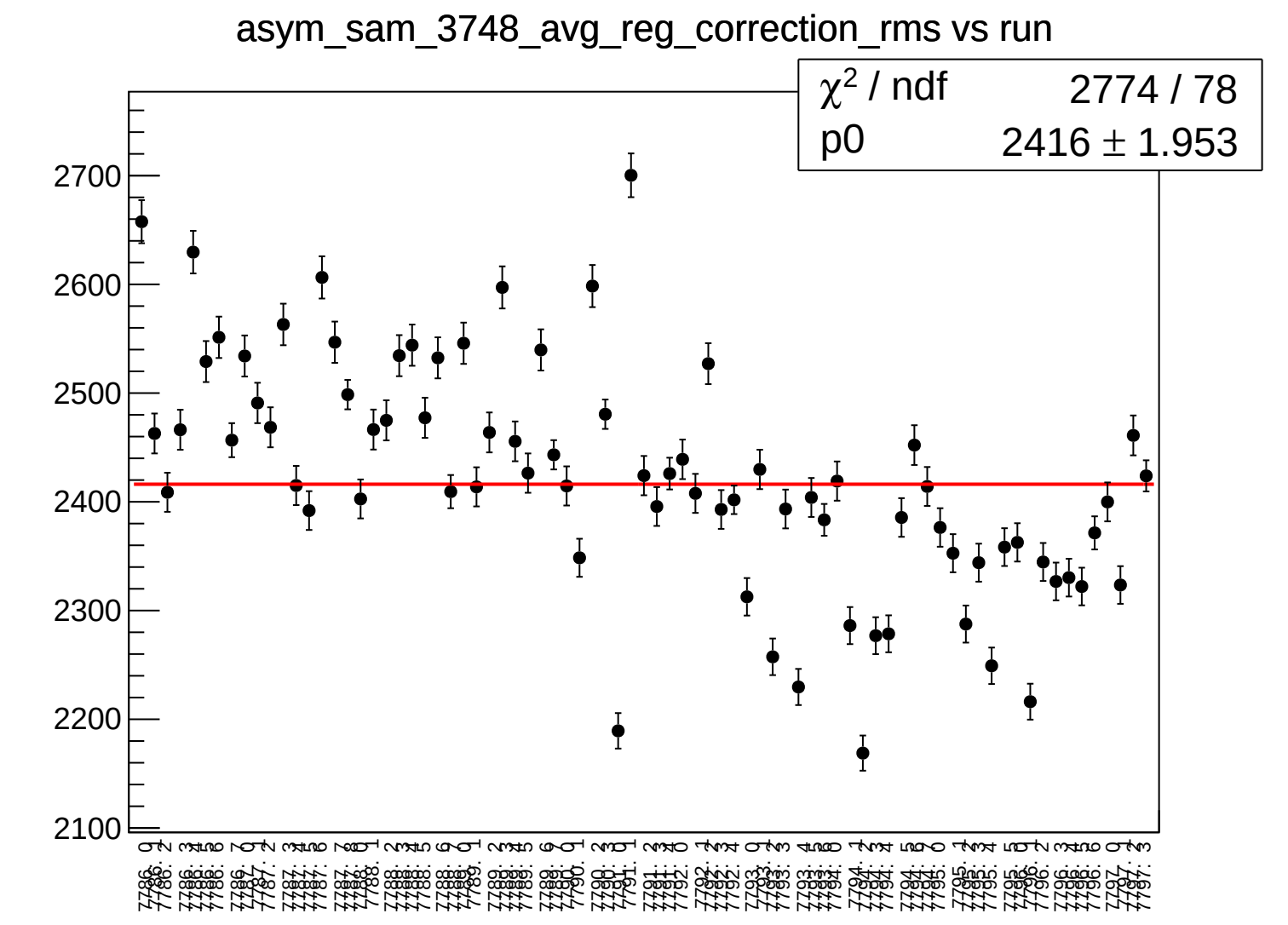

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 57.87 / 78
p0 −95.82 ± 226.4
pull
Entries 79
Mean −88.01
Std Dev 0

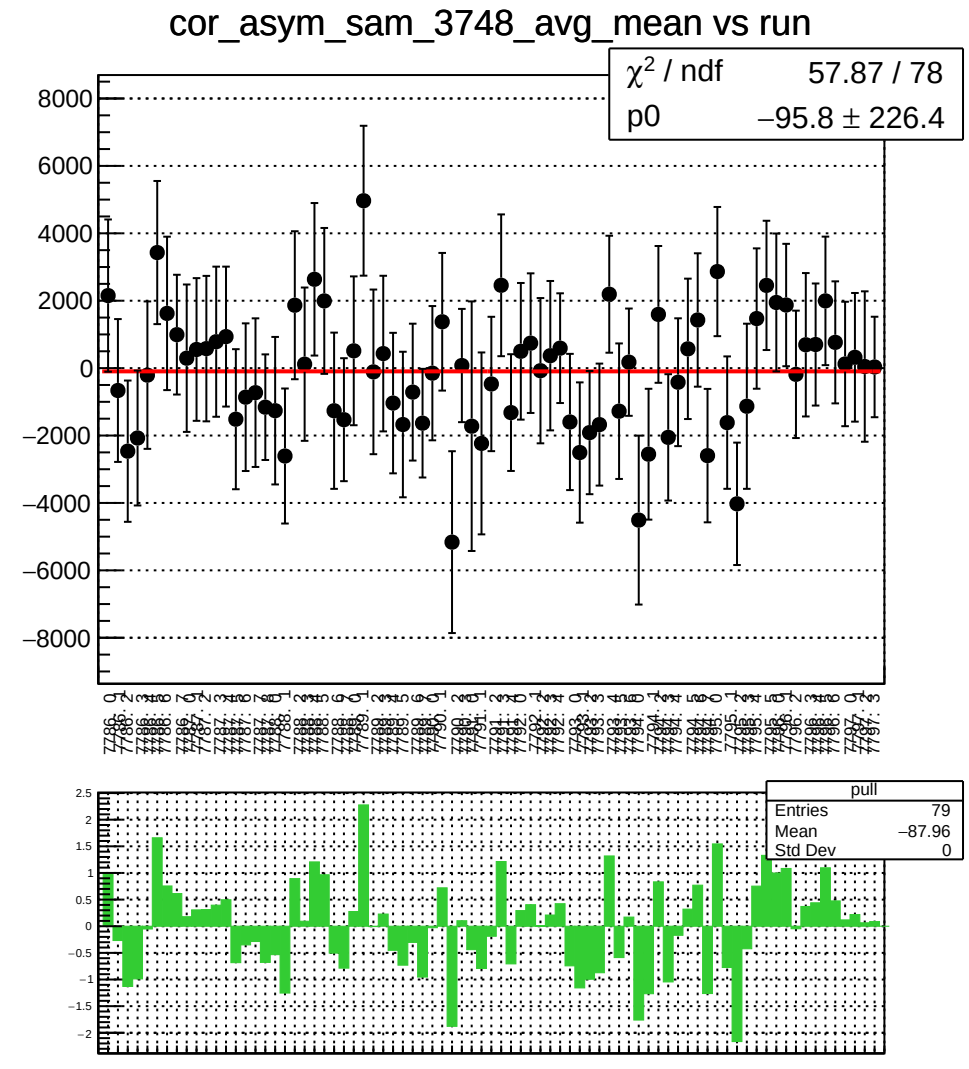

pull1D
Entries 79
Mean −0.002931
Std Dev 0.8559

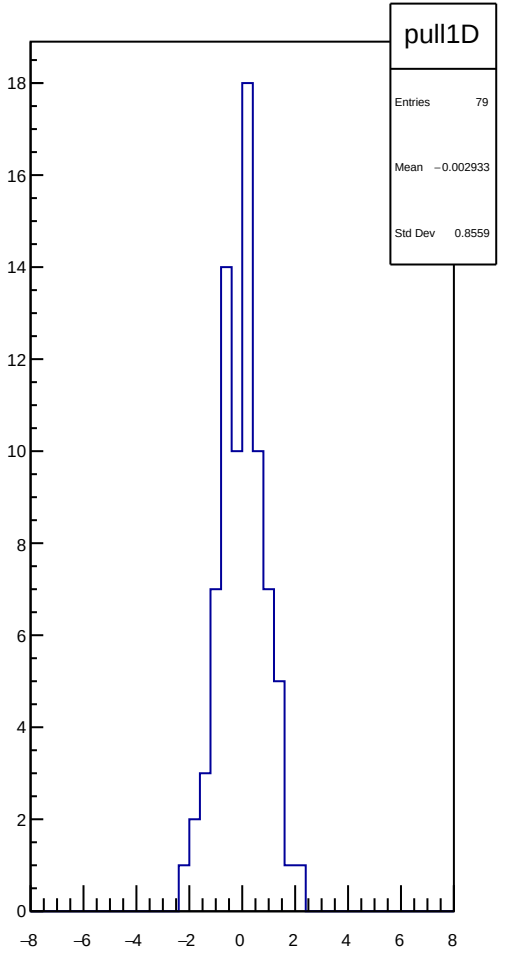

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.384e+04 / 78
p0 197.4 ± 0.1601
350
300
250
200
150

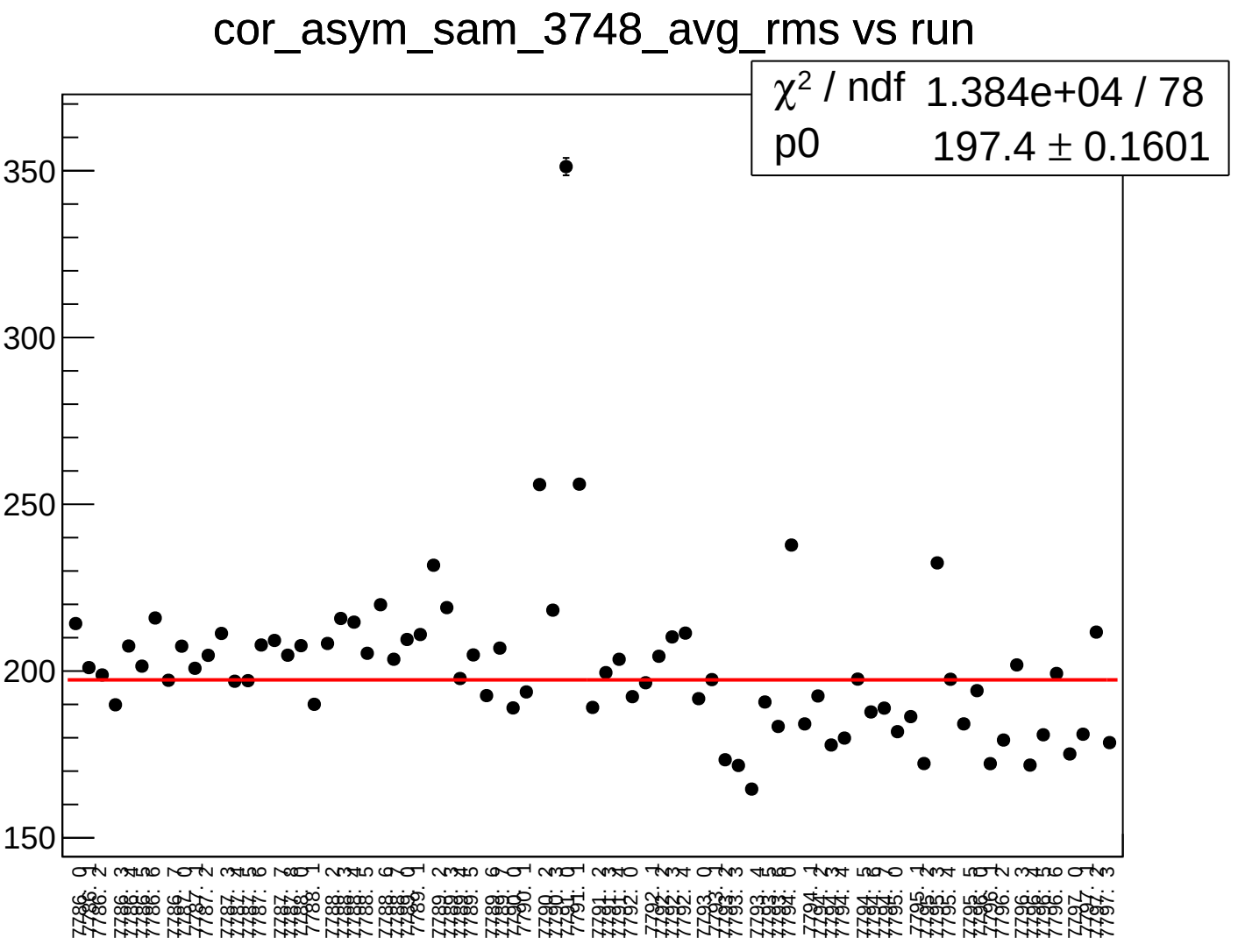

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 70.54 / 78
p0 −4262 ± 2761
pull
Entries 79
Mean −60.79
Std Dev 0

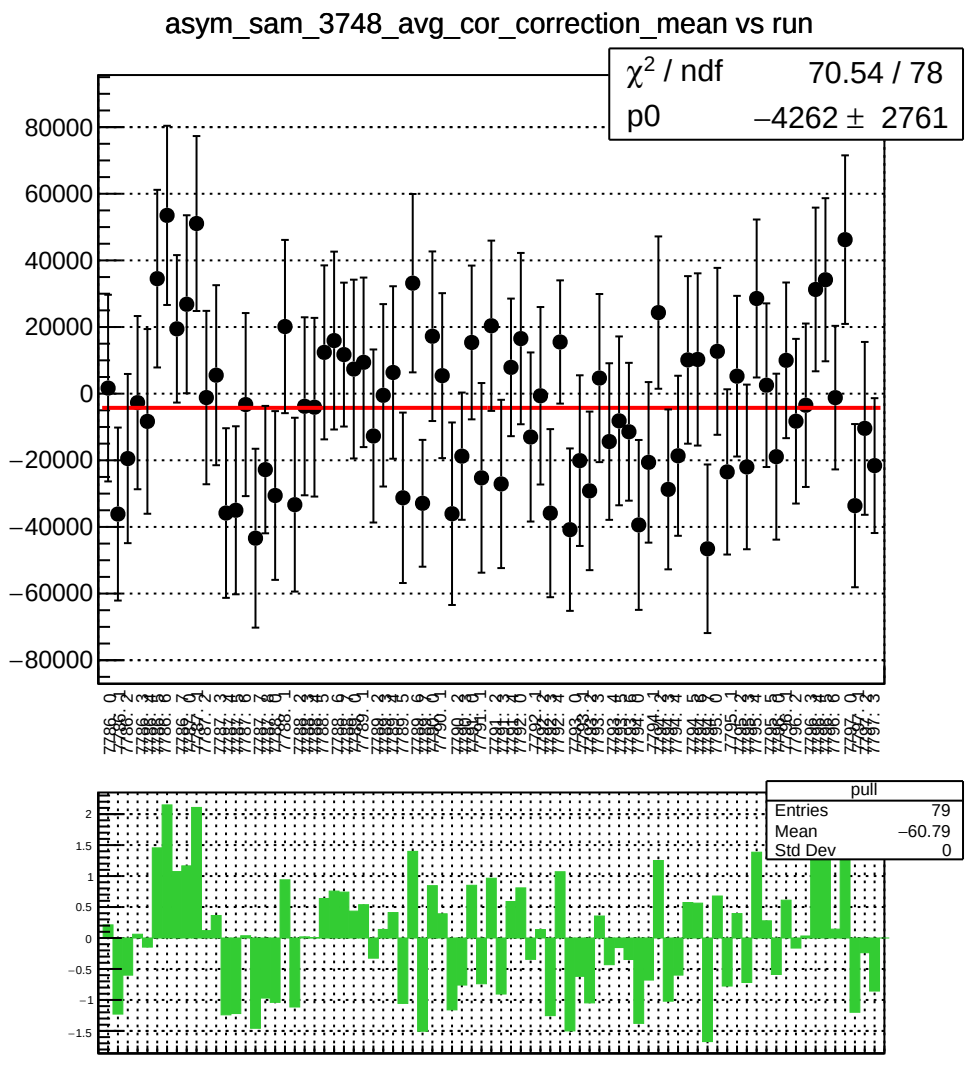

pull1D
Entries 79
Mean 0.008134
Std Dev 0.9449

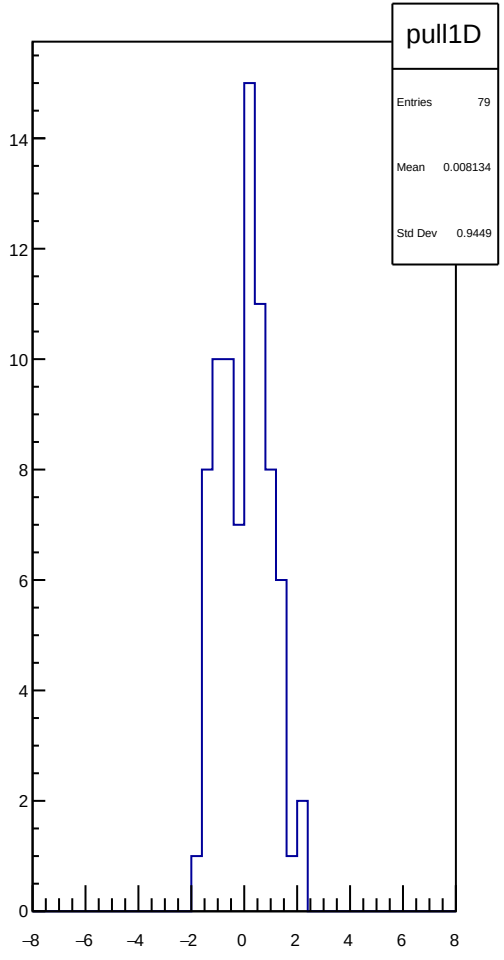

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 2774 / 78
p0 2416 ± 1.953
2700
2600
2500
2400
2300
2200
2100

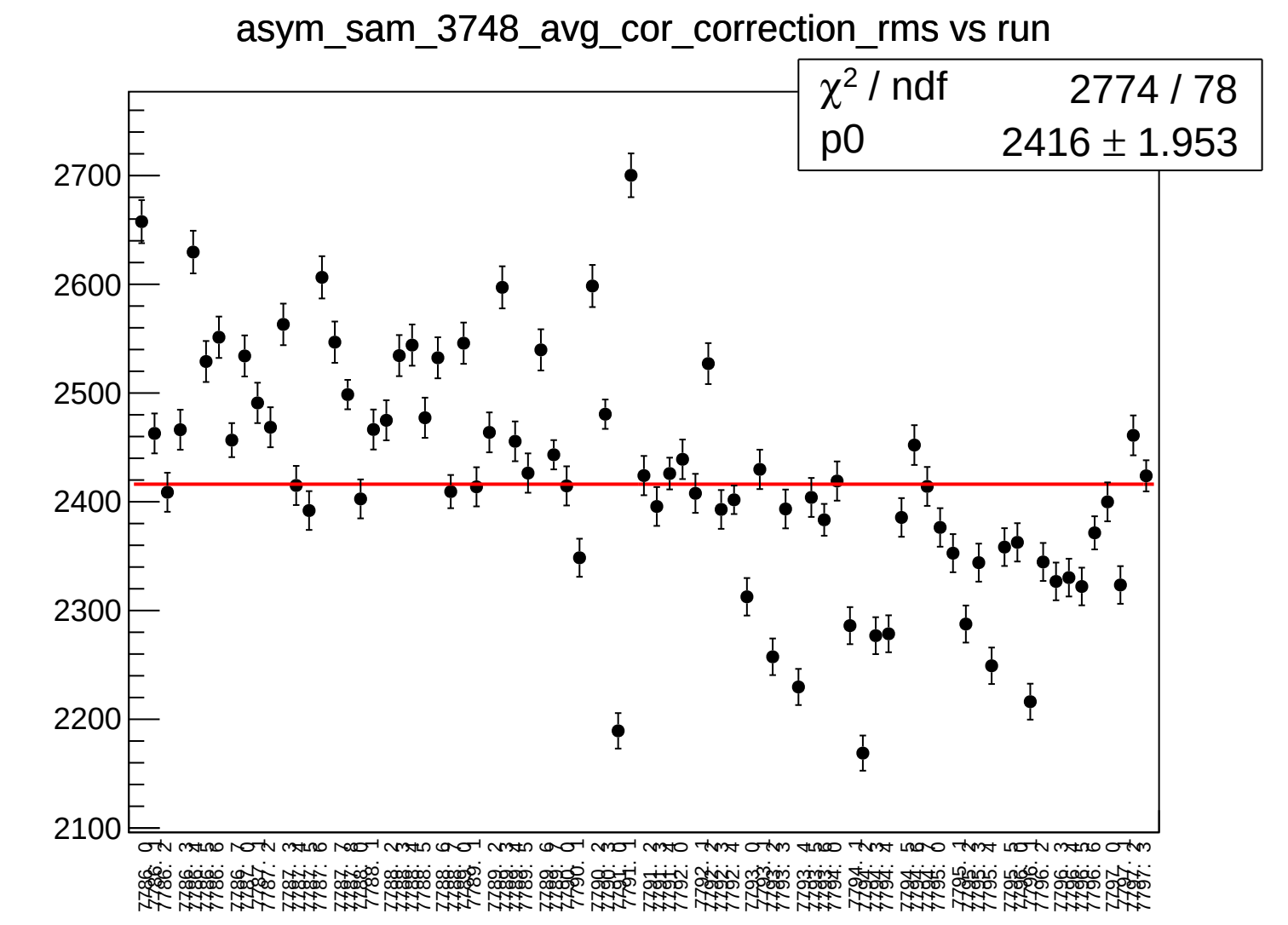

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 57.87 / 78
p0 −95.8 ± 226.4
pull
Entries 79
Mean −87.96
Std Dev 0

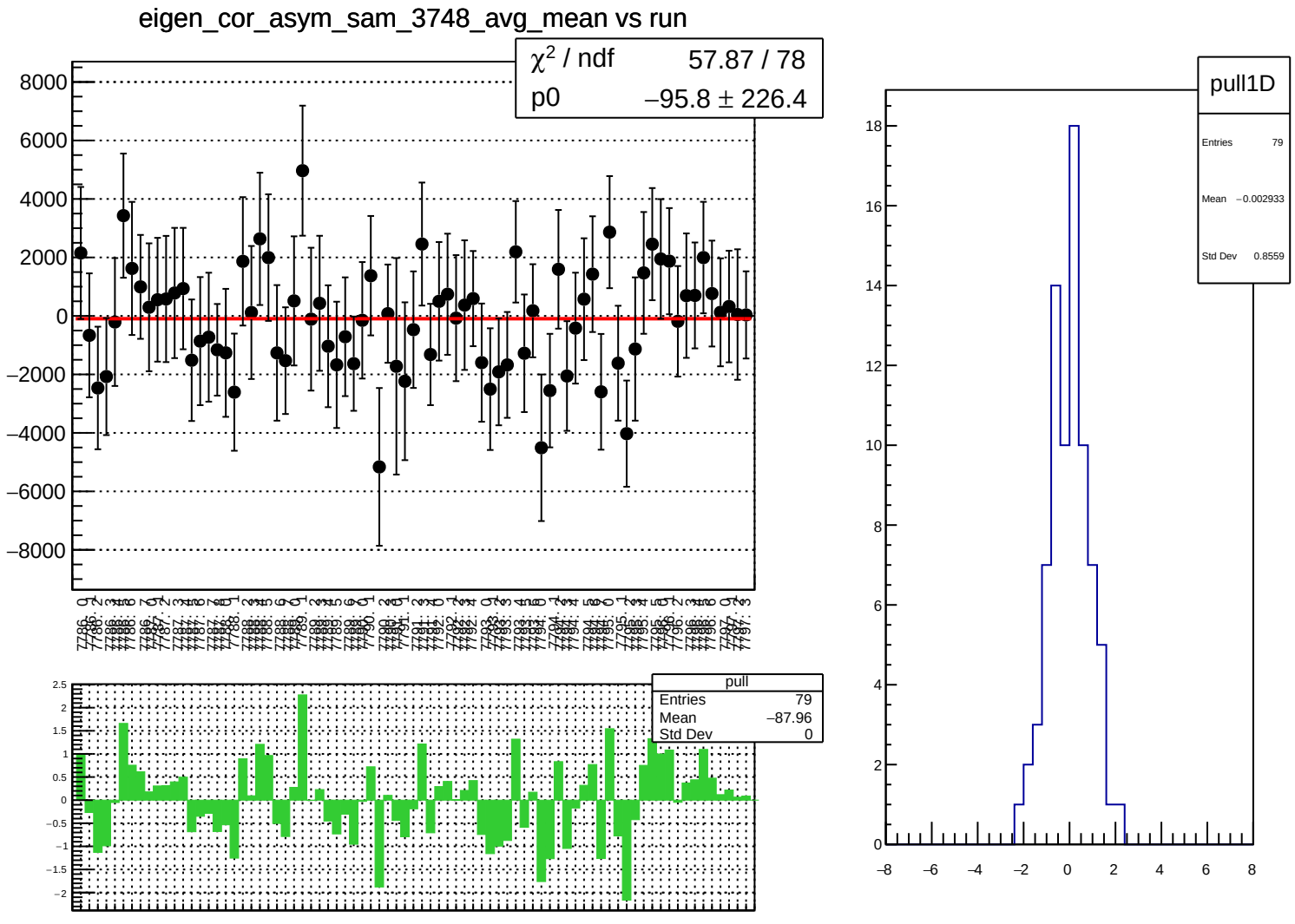

pull1D
Entries 79
Mean −0.002933
Std Dev 0.8559

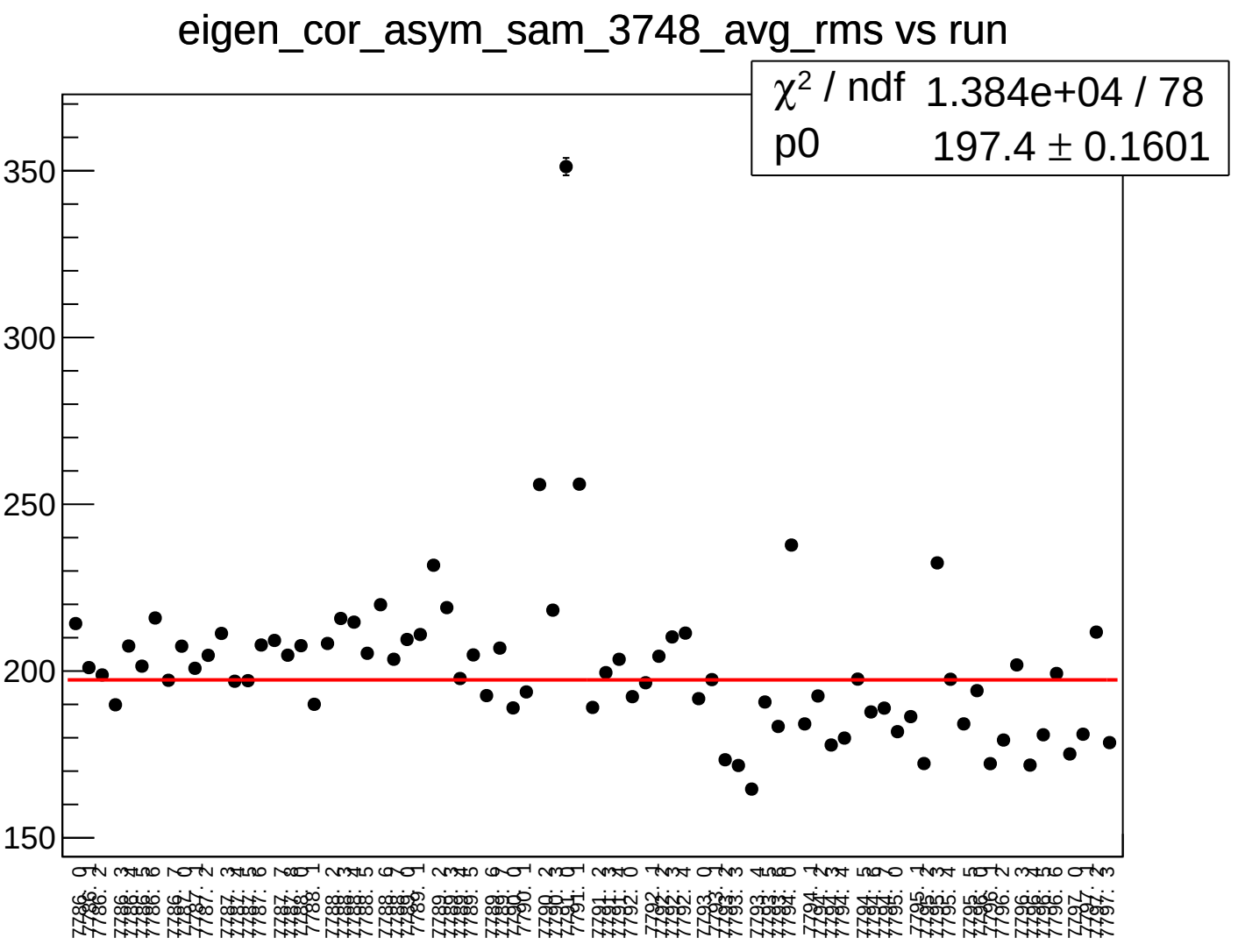

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.384e+04 / 78
p0 197.4 ± 0.1601
350
300
250
200
150

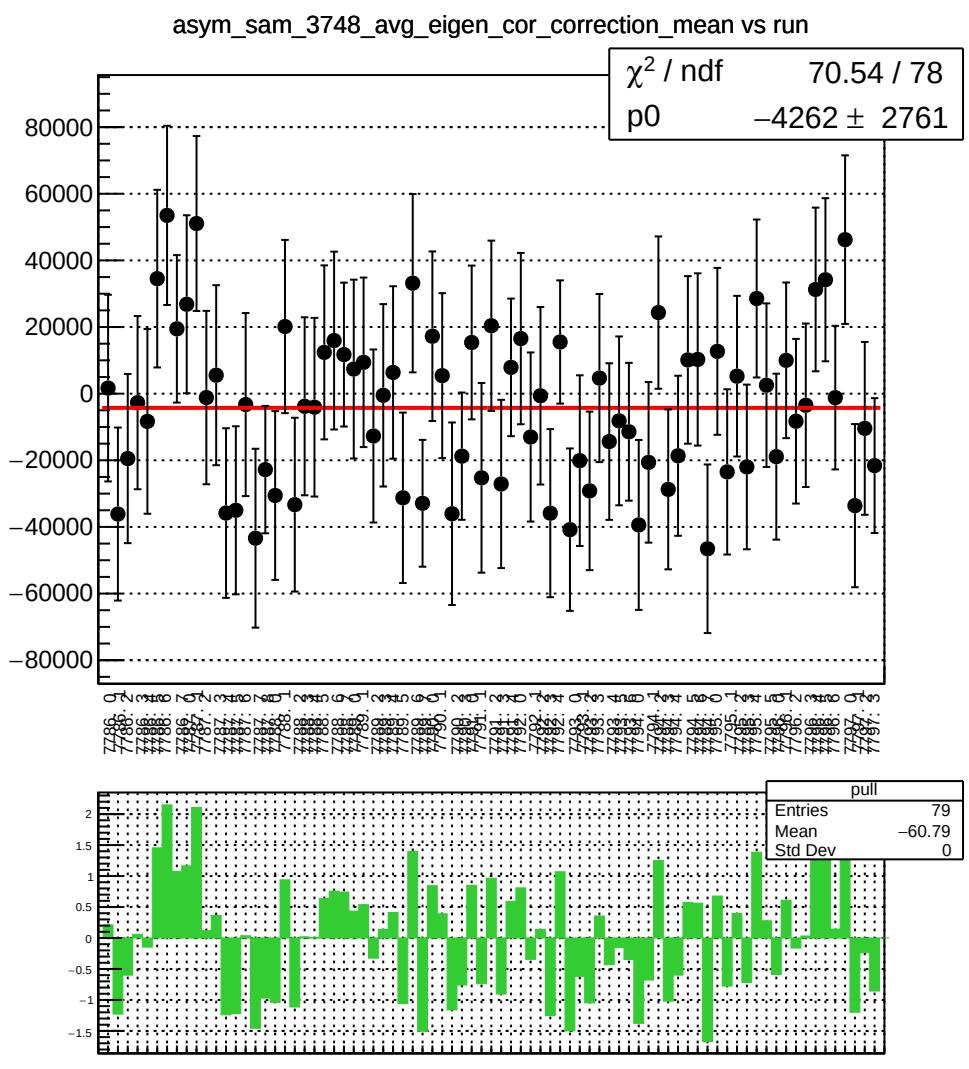

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 70.54 / 78
p0 −4262 ± 2761
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean −60.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

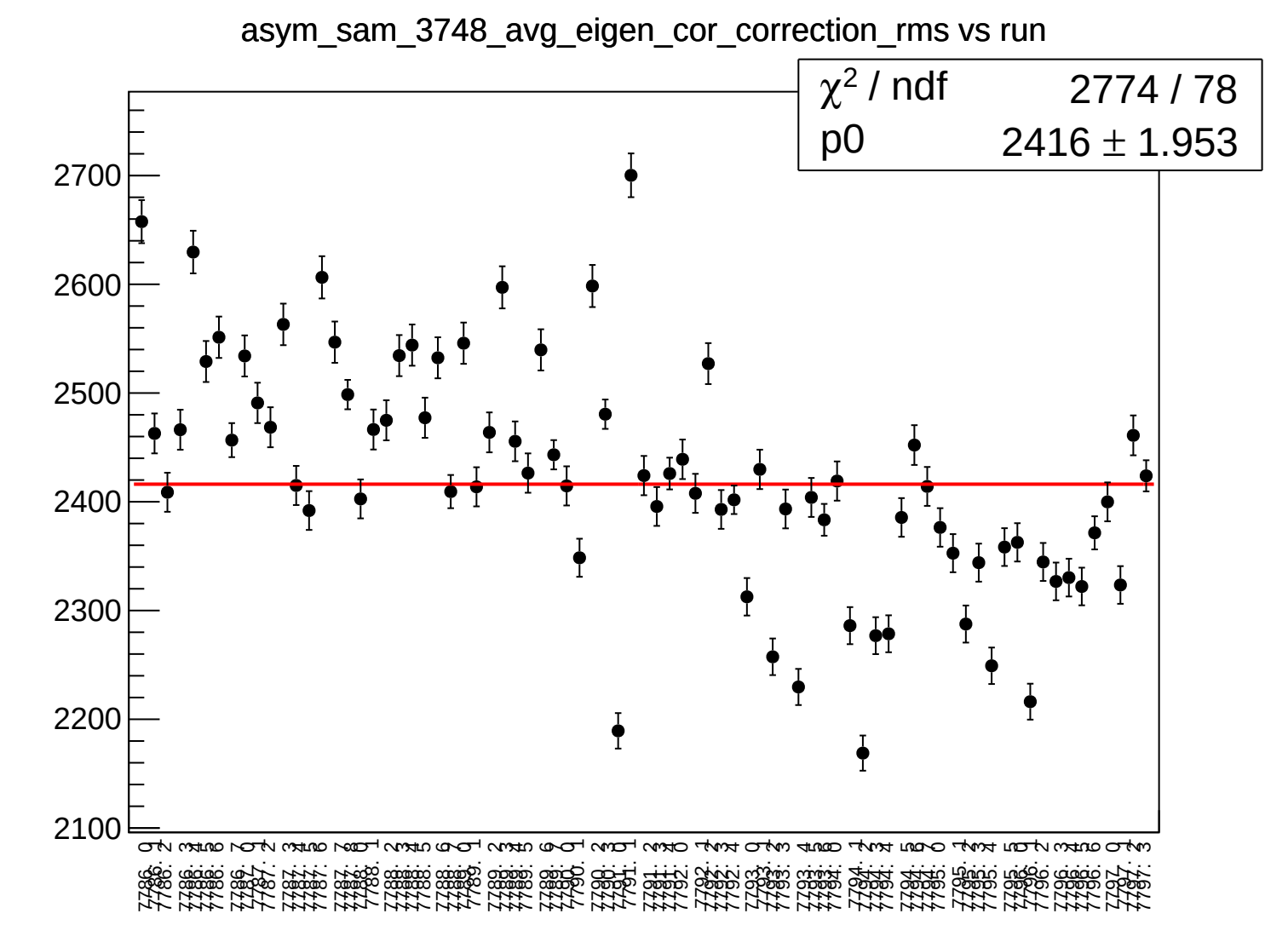

pull1D
Entries 79
Mean 0.008134
Std Dev 0.9449
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

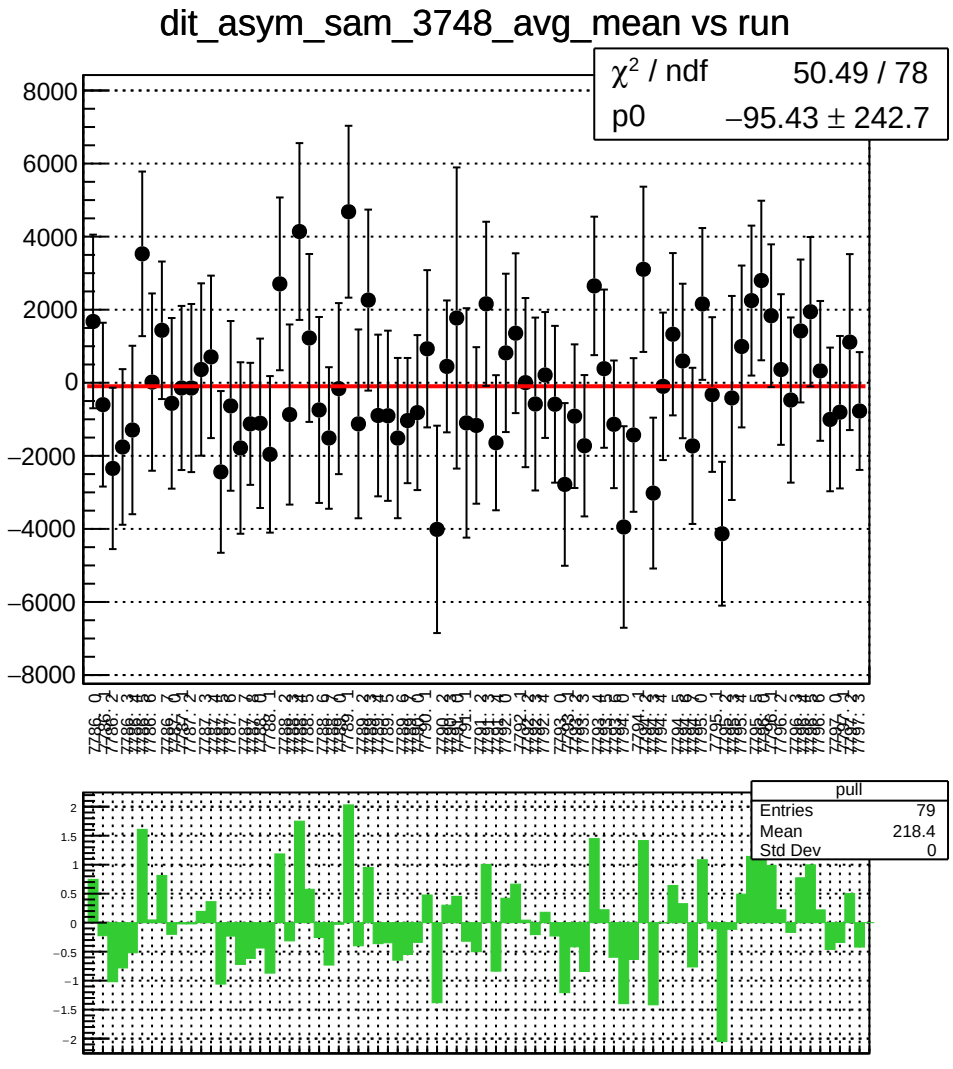

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 2774 / 78
p0 2416 ± 1.953
2700
2600
2500
2400
2300
2200
2100

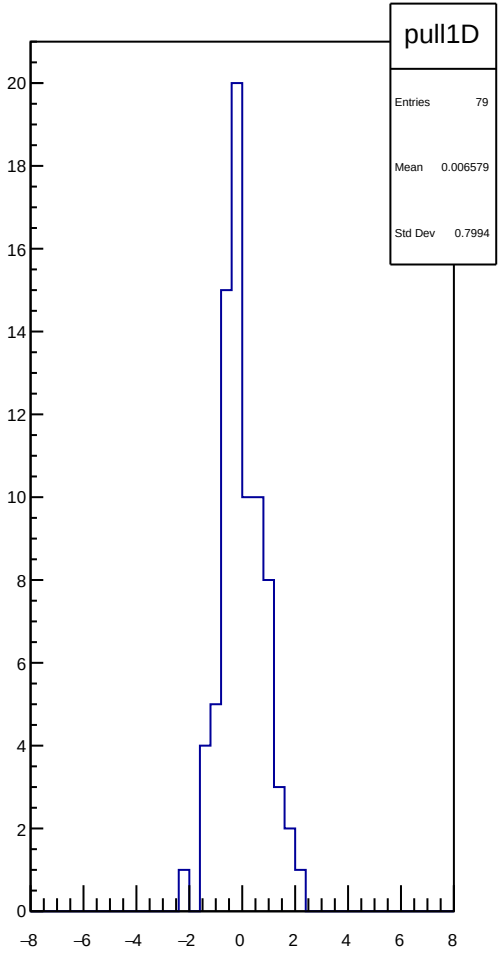

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 57.87 / 78
p0 −95.8 ± 226.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 79
Mean −87.96
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 79
Mean −0.002933
Std Dev 0.8559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

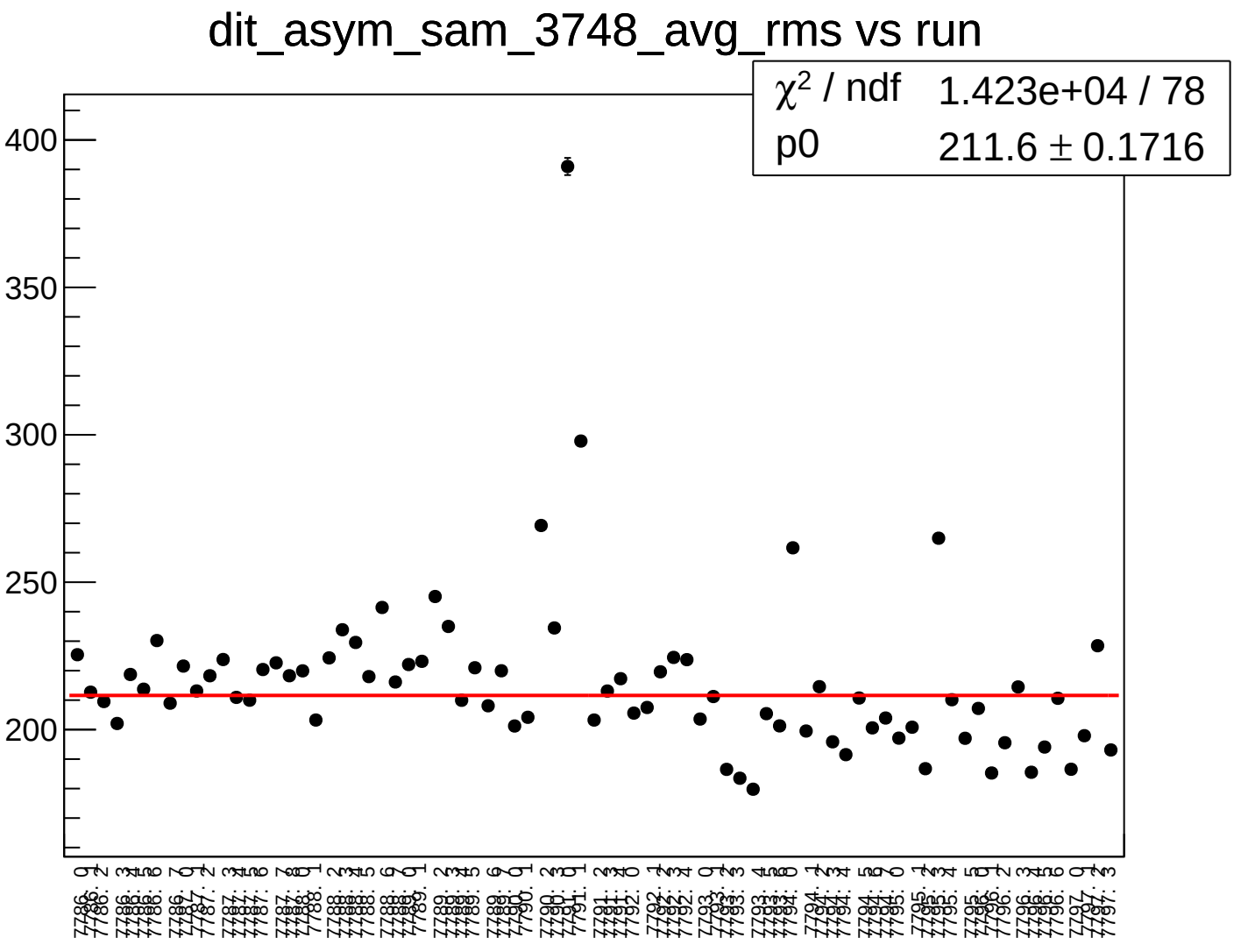

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.384e+04 / 78
p0 197.4 ± 0.1601
350
300
250
200
150

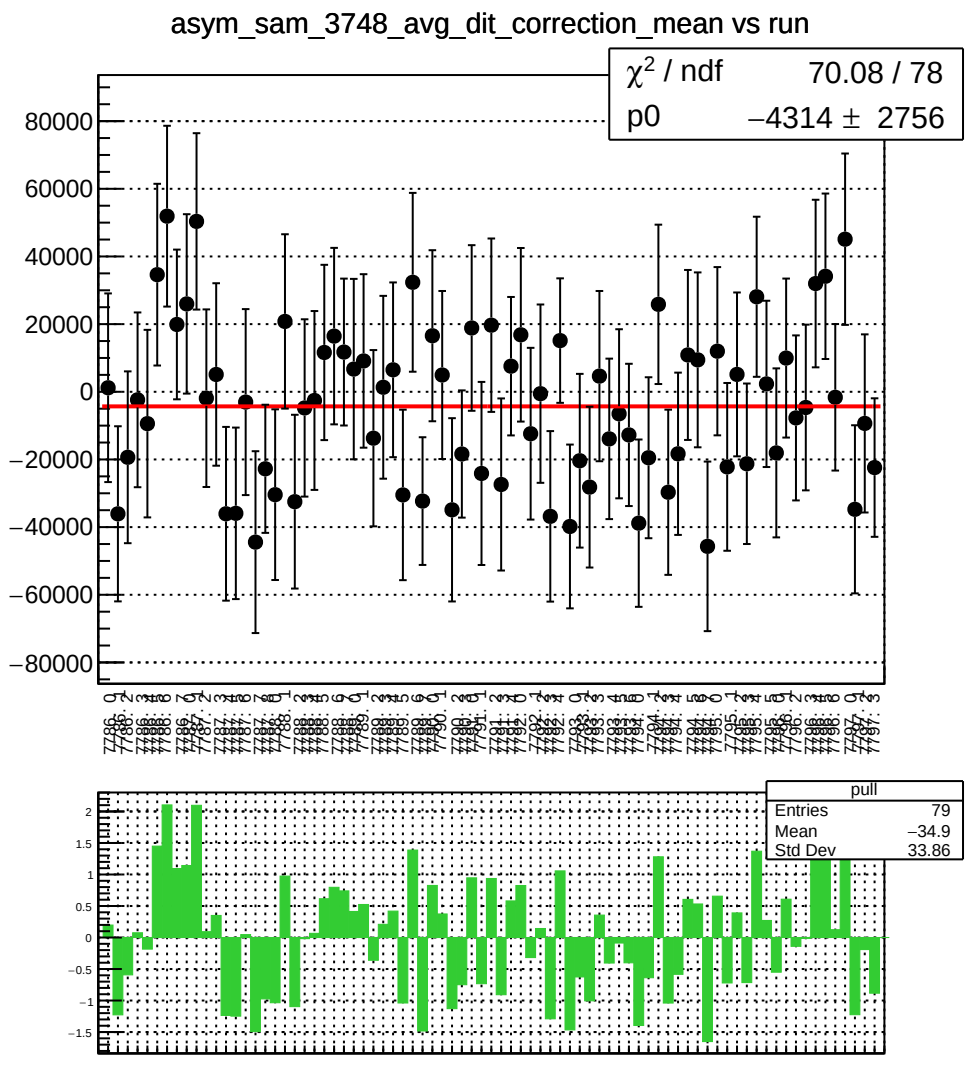

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.54 / 78
p0 −4262 ± 2761
pull
Entries 79
Mean −60.79
Std Dev 0
pull1D
Entries 79
Mean 0.008134
Std Dev 0.9449

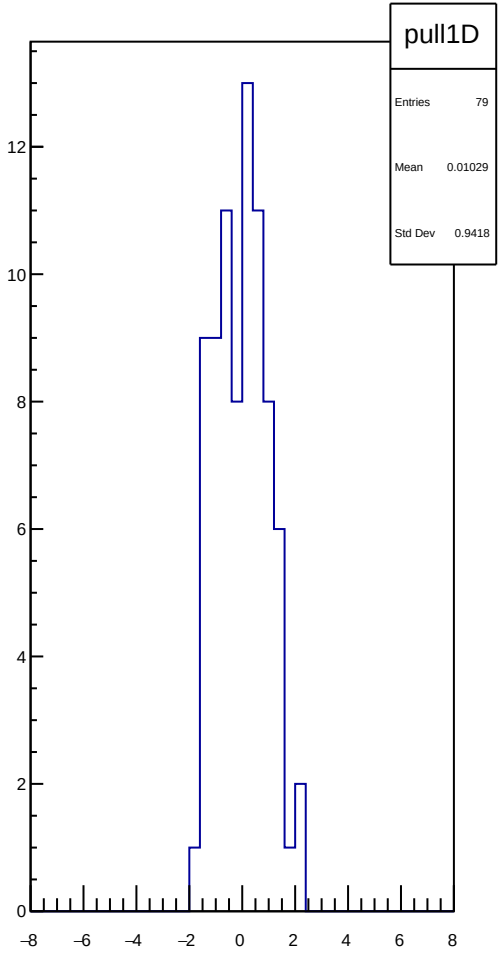

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 2774 / 78
p0 2416 ± 1.953
2700
2600
2500
2400
2300
2200
2100

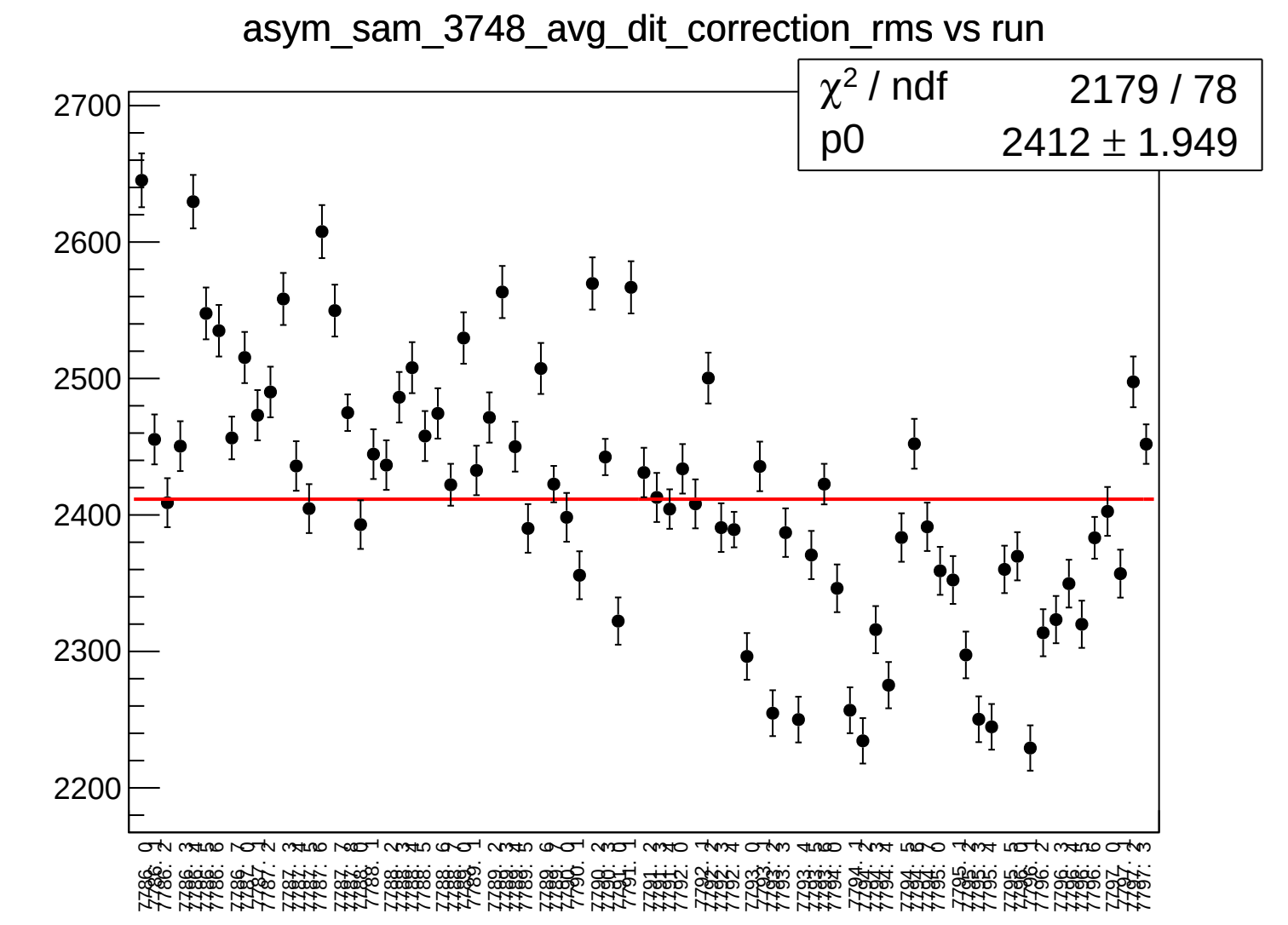

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 50.49 / 78
p0 −95.43 ± 242.7
pull
Entries 79
Mean 218.4
Std Dev 0

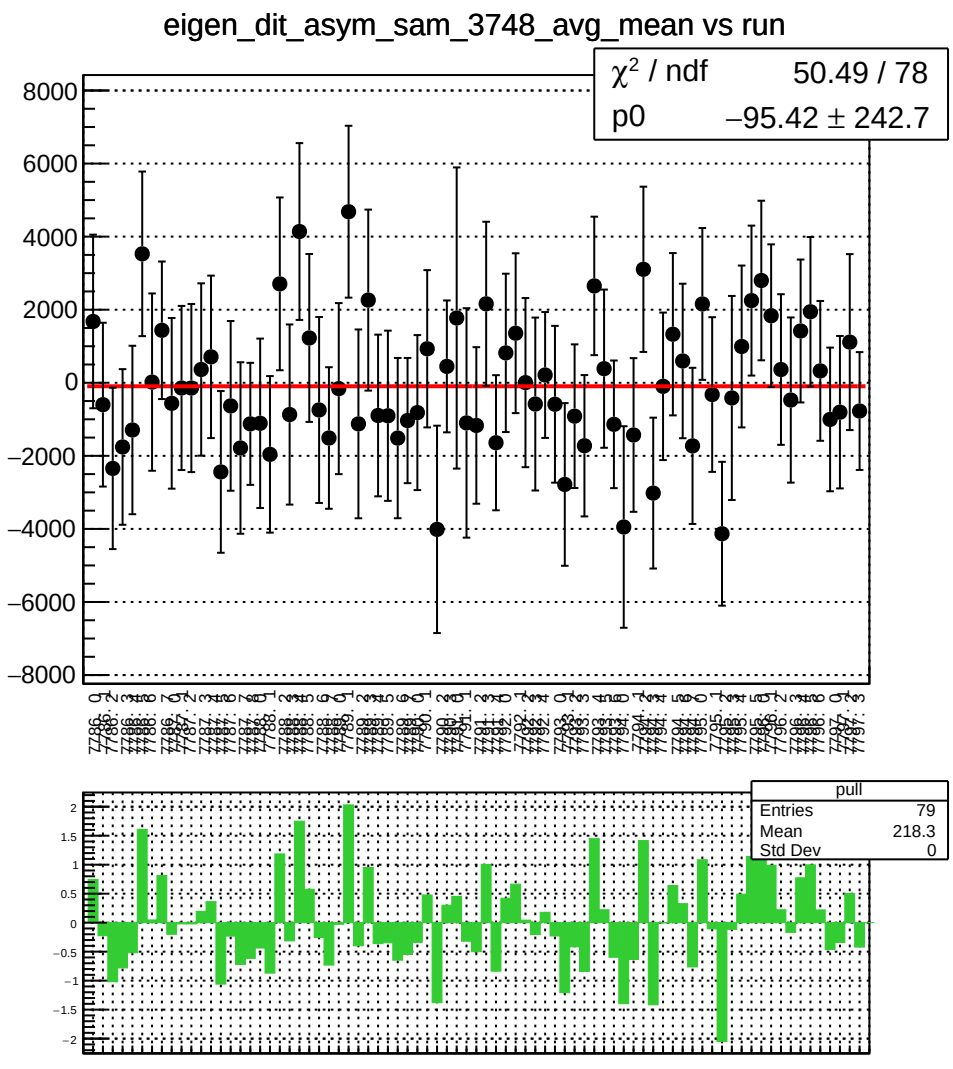

pull1D
Entries 79
Mean 0.006579
Std Dev 0.7994

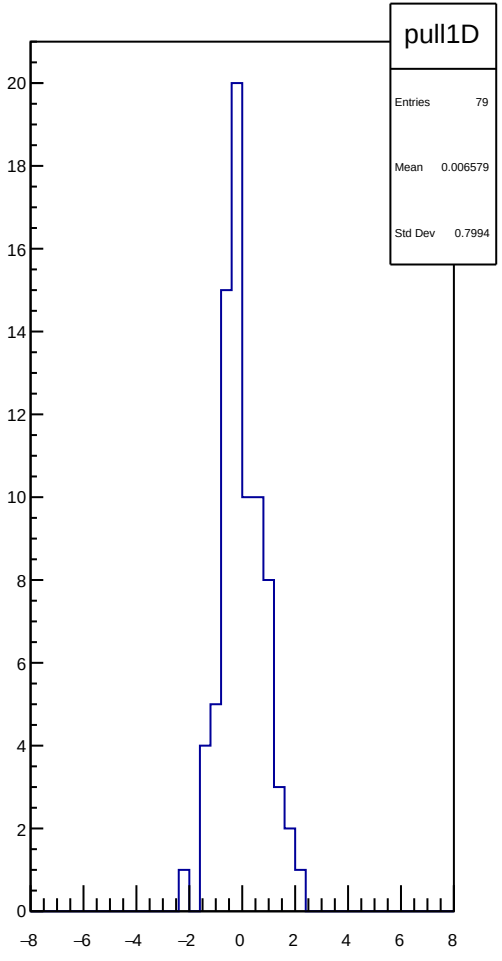

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.423e+04 / 78
p0 211.6 ± 0.1716
400
350
300
250
200

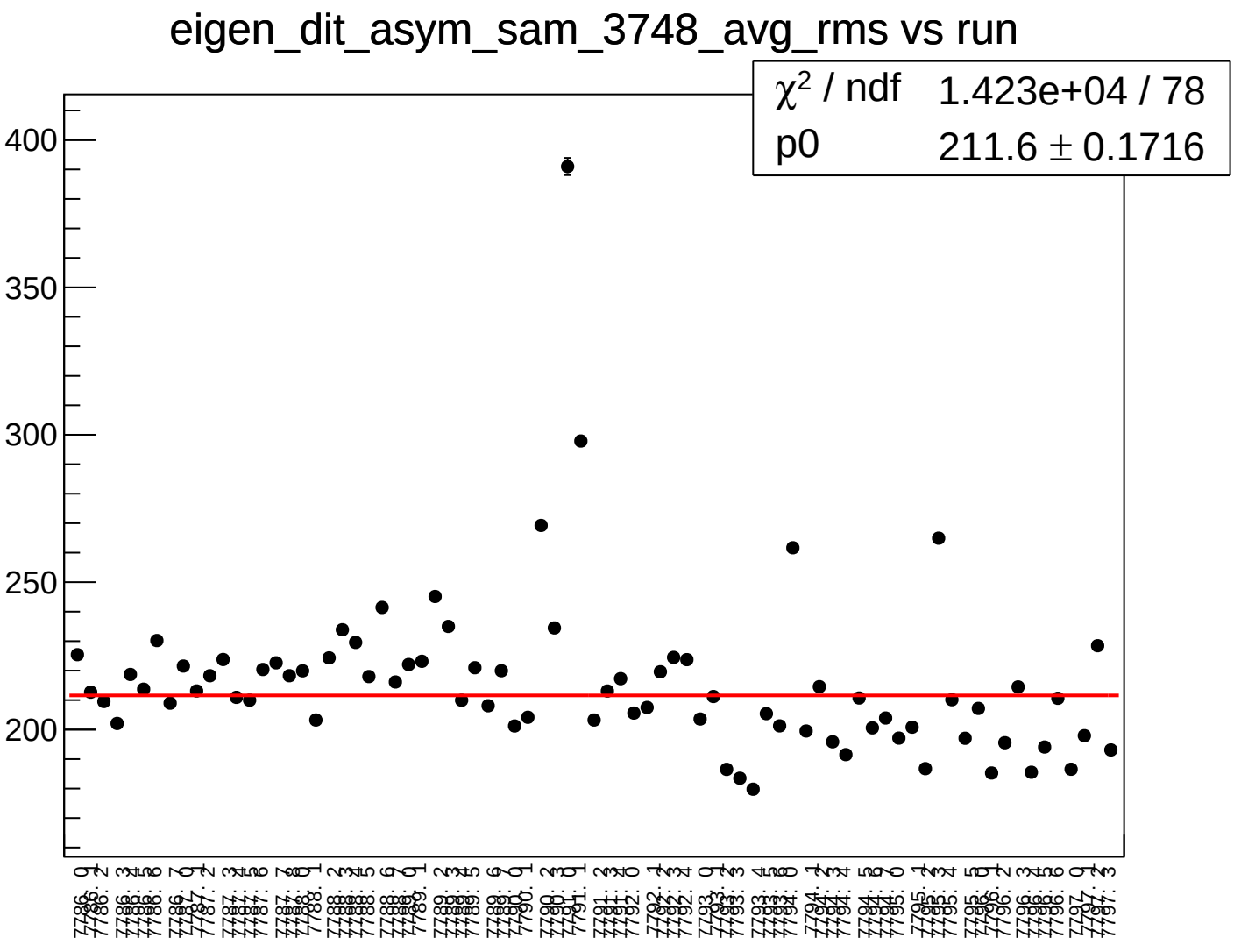

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 70.08 / 78
p0 −4314 ± 2756
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 79
Mean −34.9
Std Dev 33.86
2
1.5
1
0.5
0
−0.5
−1
−1.5

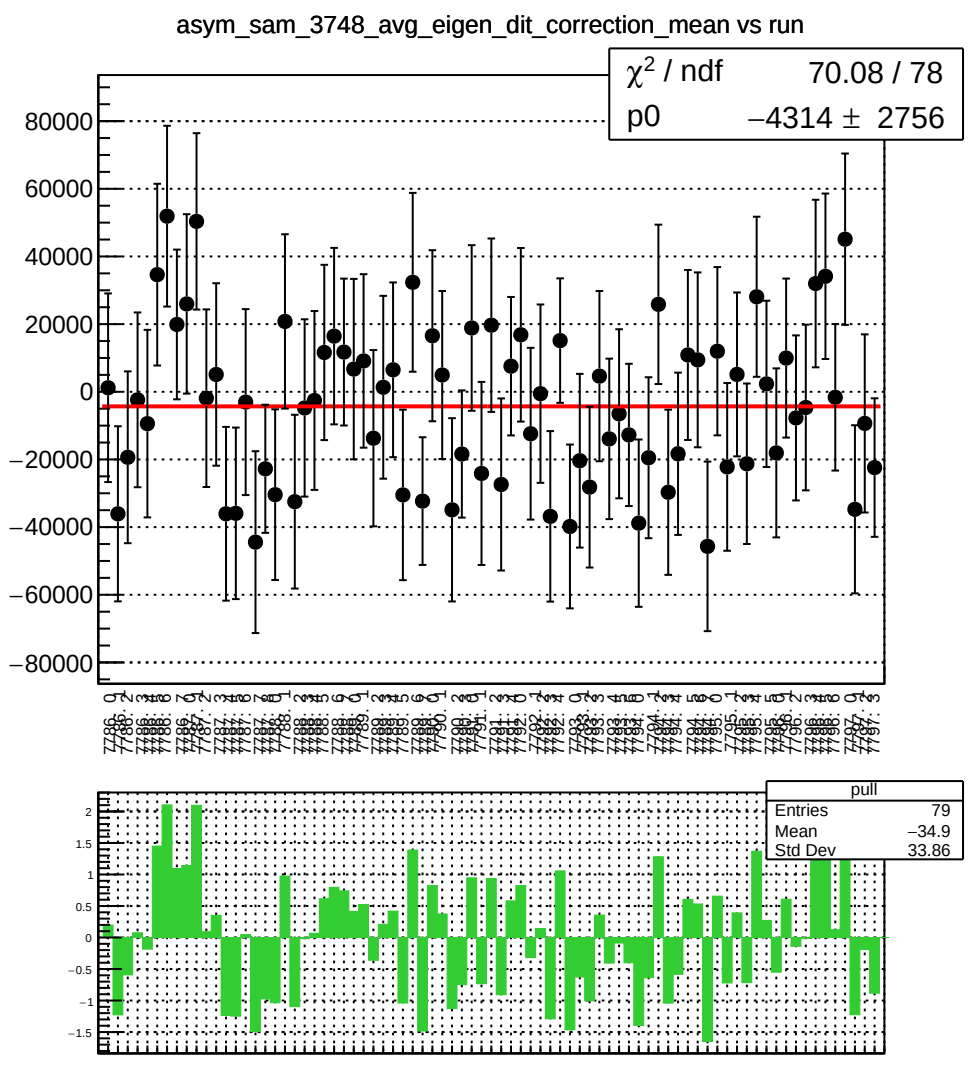

pull1D
Entries 79
Mean 0.01029
Std Dev 0.9418
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

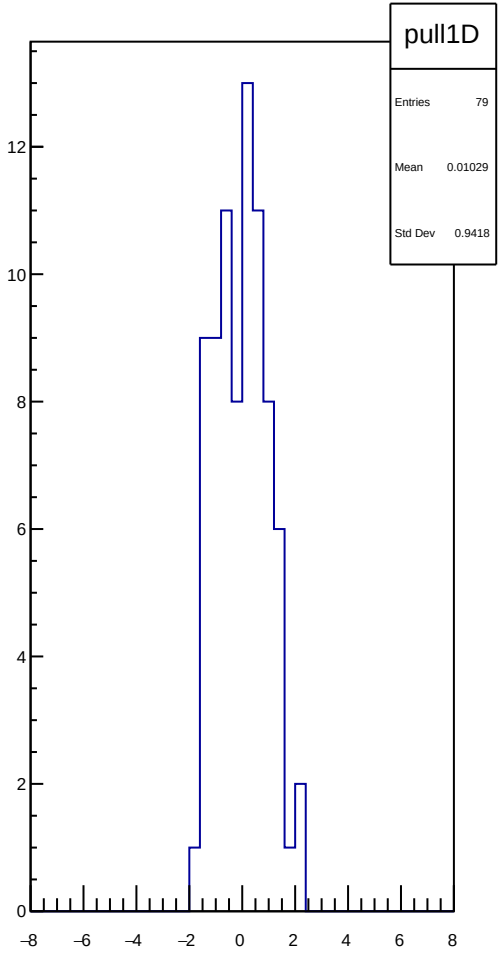

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 2179 / 78
p0 2412 ± 1.949
2700
2600
2500
2400
2300
2200

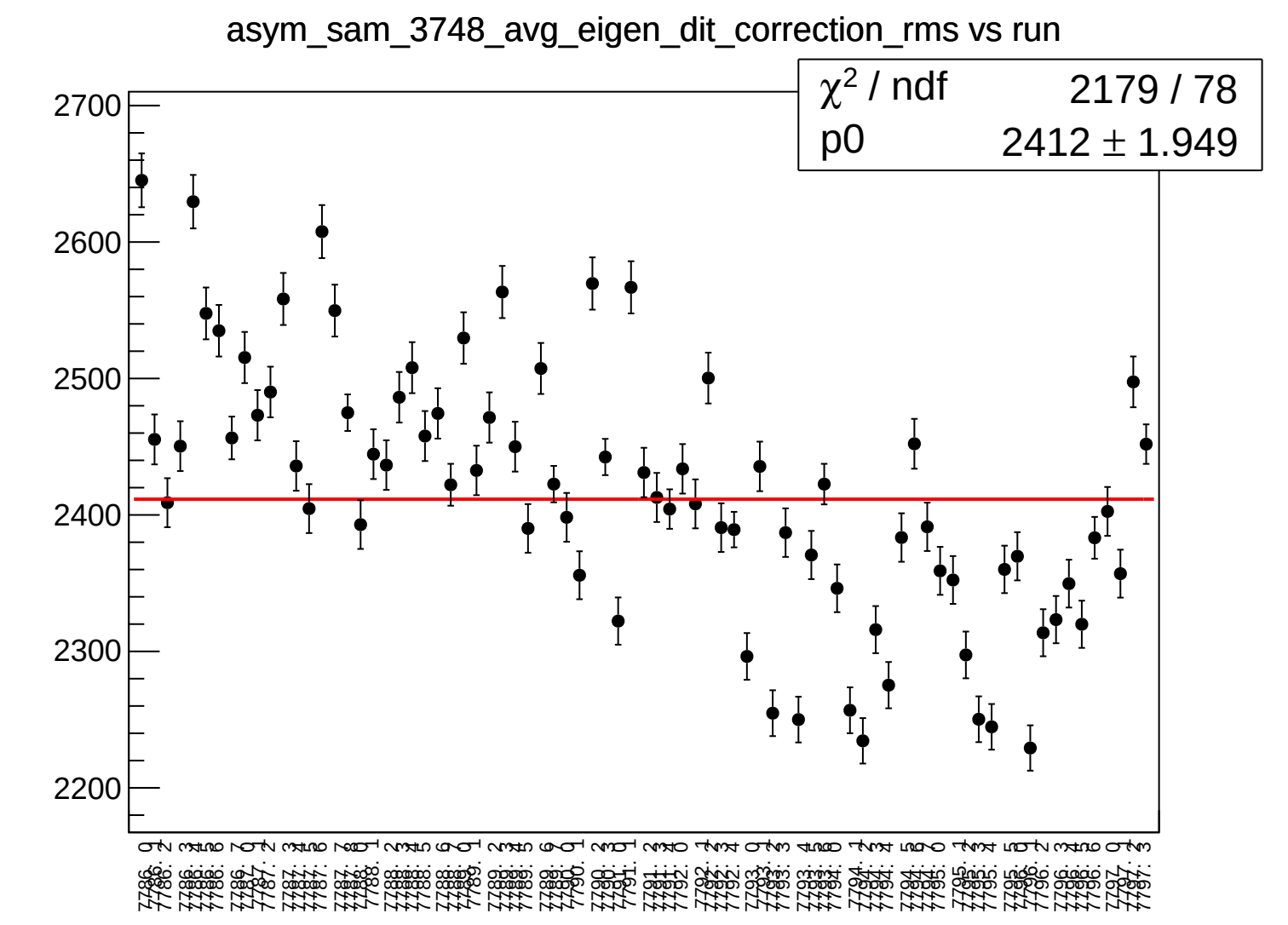

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 50.49 / 78
p0 −95.42 ± 242.7
pull
Entries 79
Mean 218.3
Std Dev 0

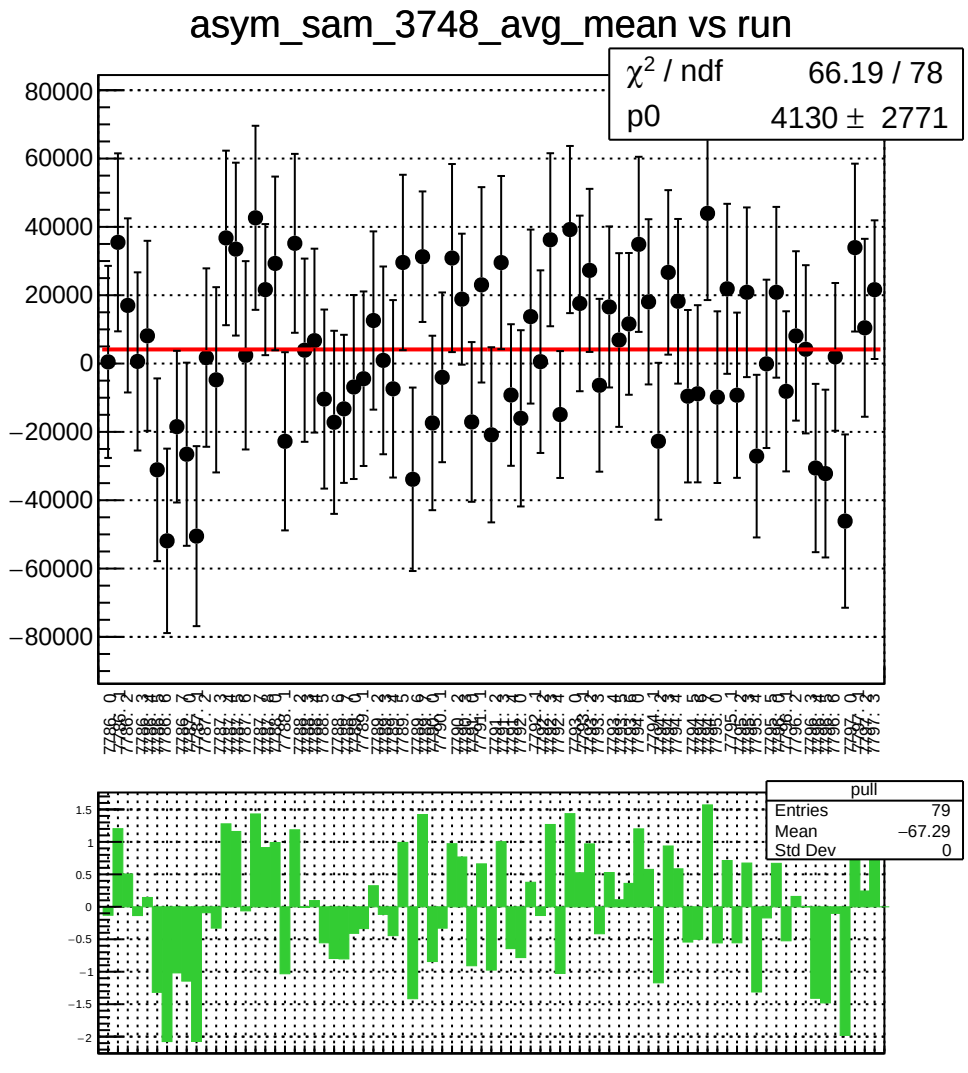

pull1D
Entries 79
Mean 0.006579
Std Dev 0.7994

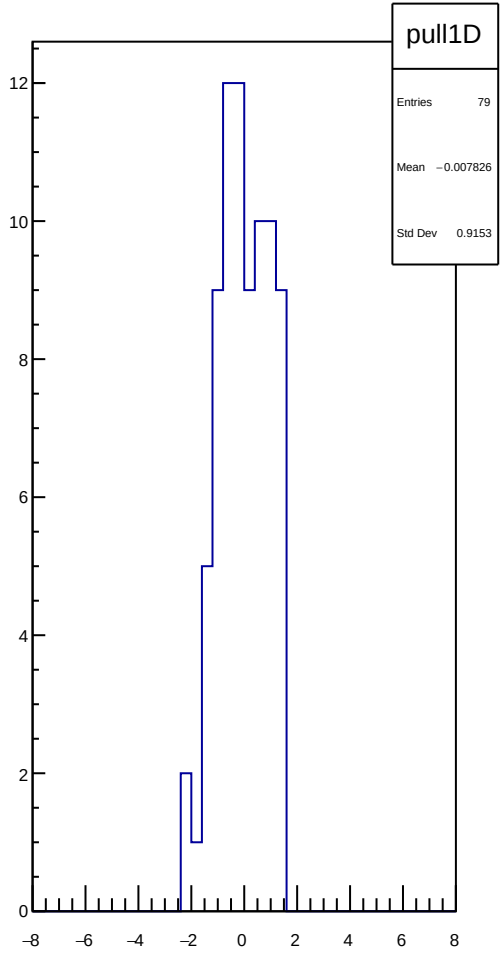

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.423e+04 / 78
p0 211.6 ± 0.1716
400
350
300
250
200

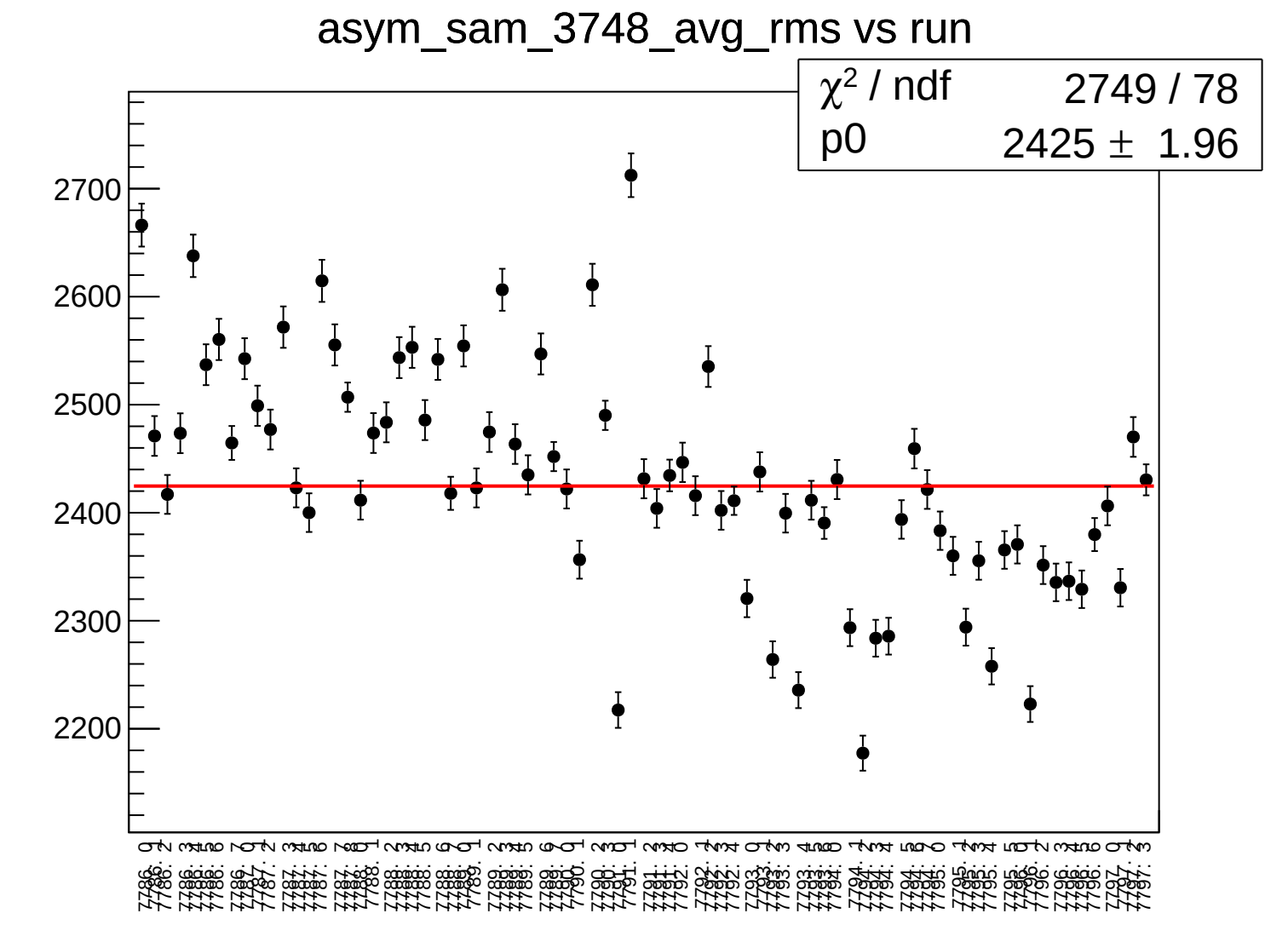

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.08 / 78
p0 −4314 ± 2756
pull
Entries 79
Mean −34.9
Std Dev 33.86

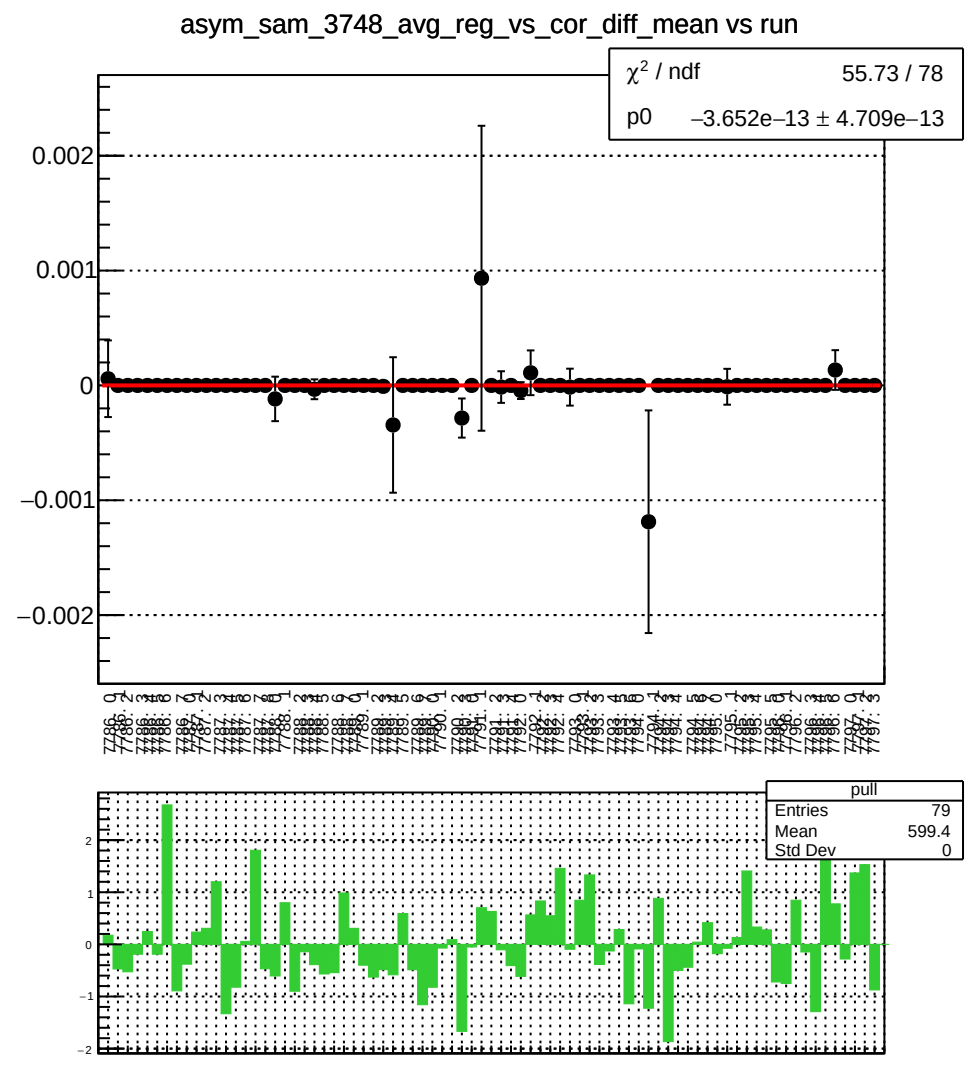

pull1D
Entries 79
Mean 0.01029
Std Dev 0.9418

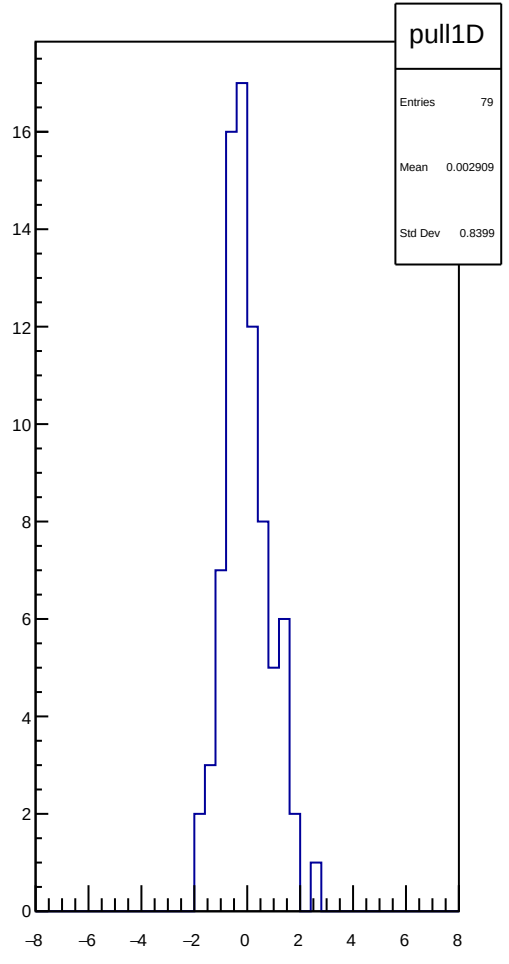

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 2179 / 78
p0 2412 ± 1.949
2700
2600
2500
2400
2300
2200

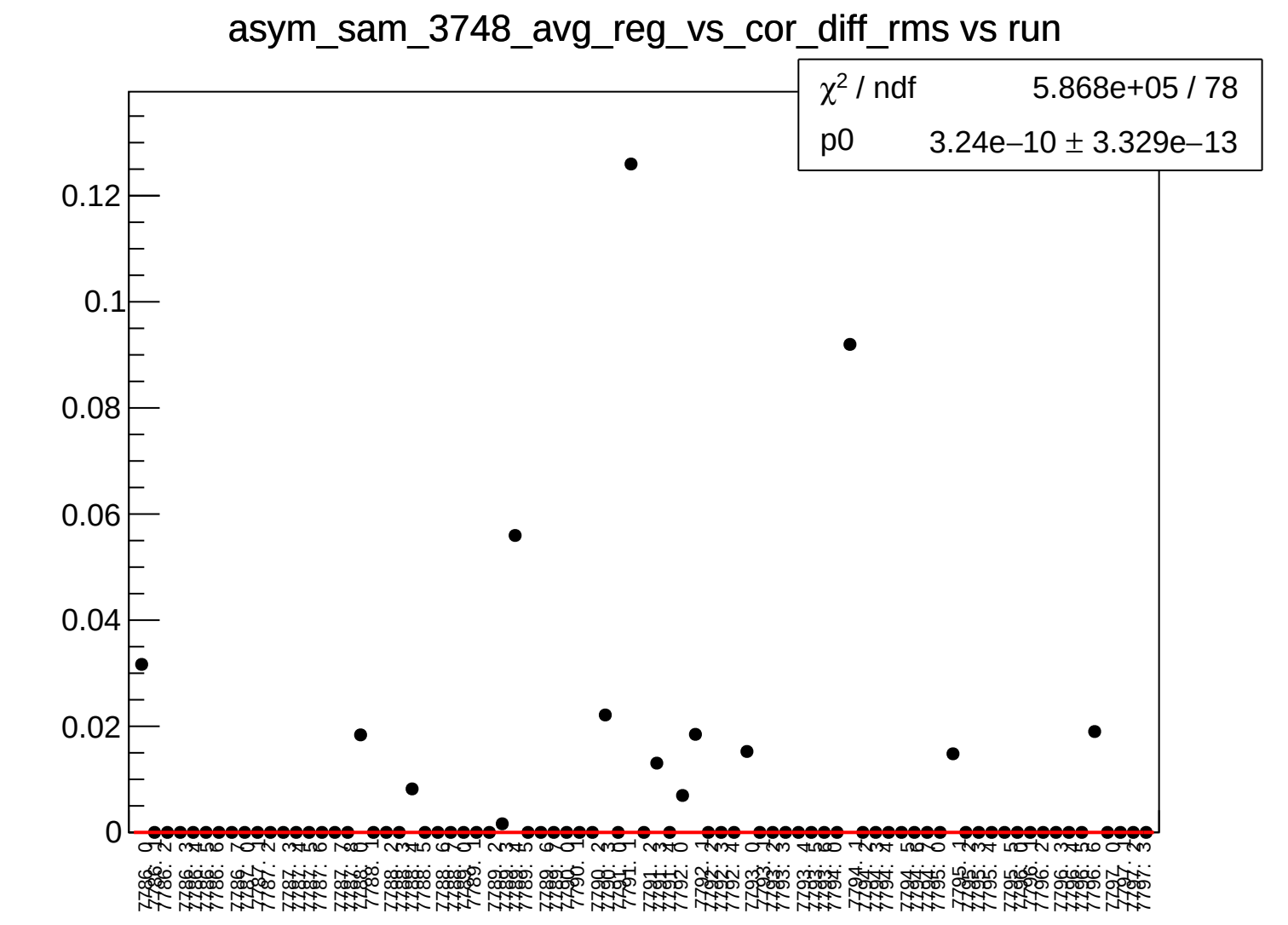

asym_sam_3748_avg_mean vs run
χ² / ndf 66.19 / 78
p0 4130 ± 2771
pull
Entries 79
Mean −67.29
Std Dev 0

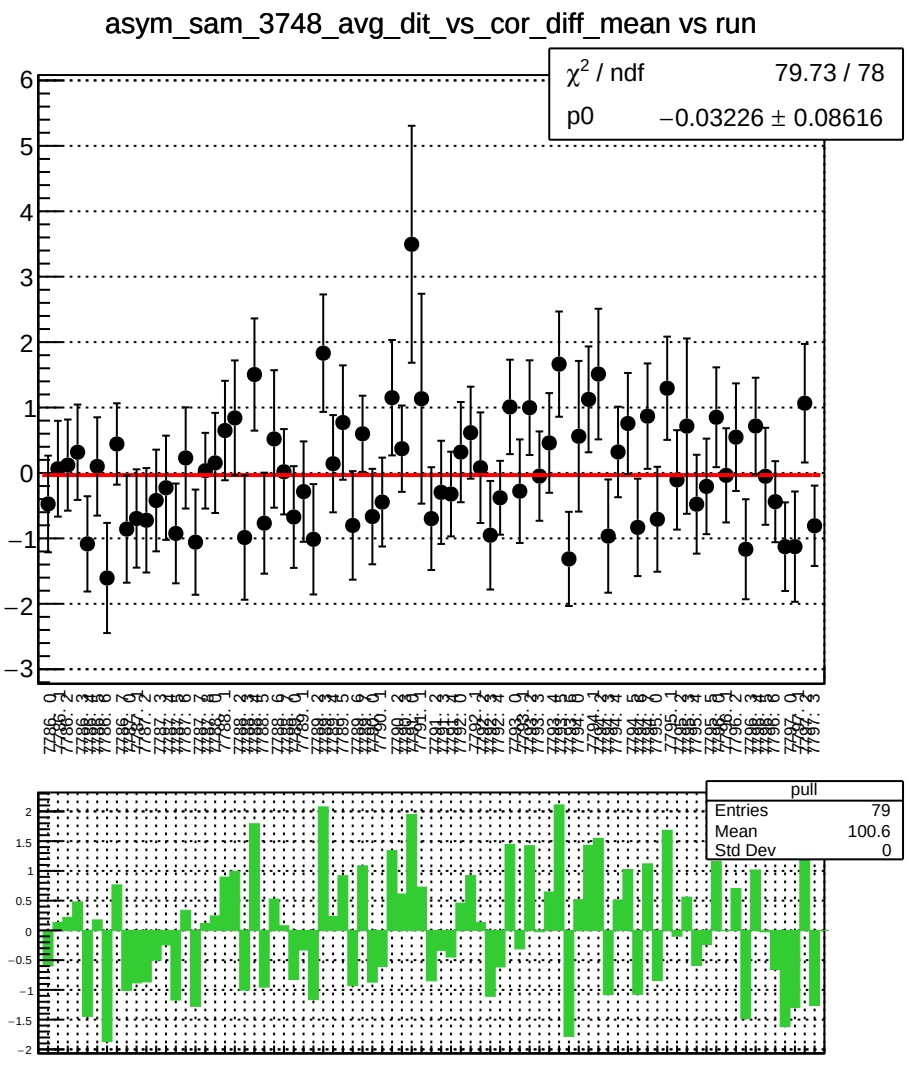

pull1D
Entries 79
Mean −0.007826
Std Dev 0.9153

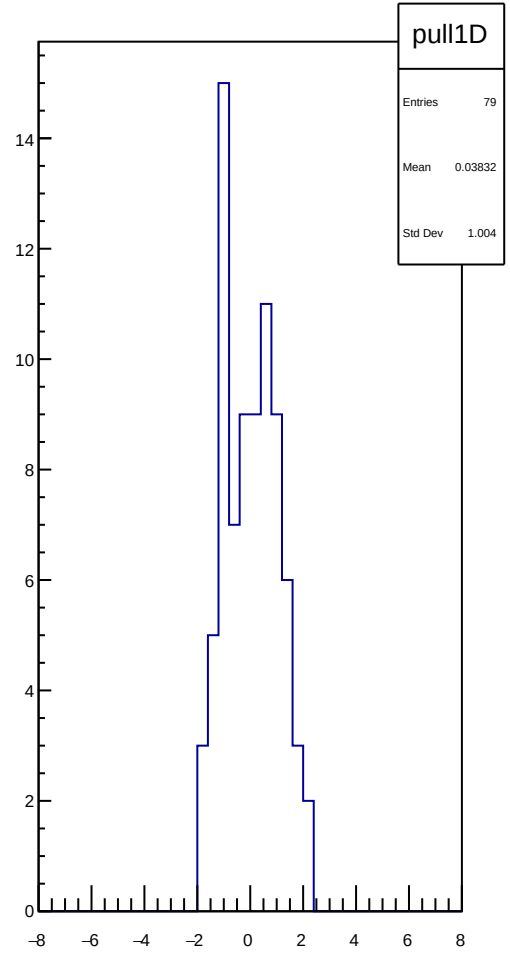

asym_sam_3748_avg_rms vs run
χ² / ndf 2749 / 78
p0 2425 ± 1.96
2700
2600
2500
2400
2300
2200

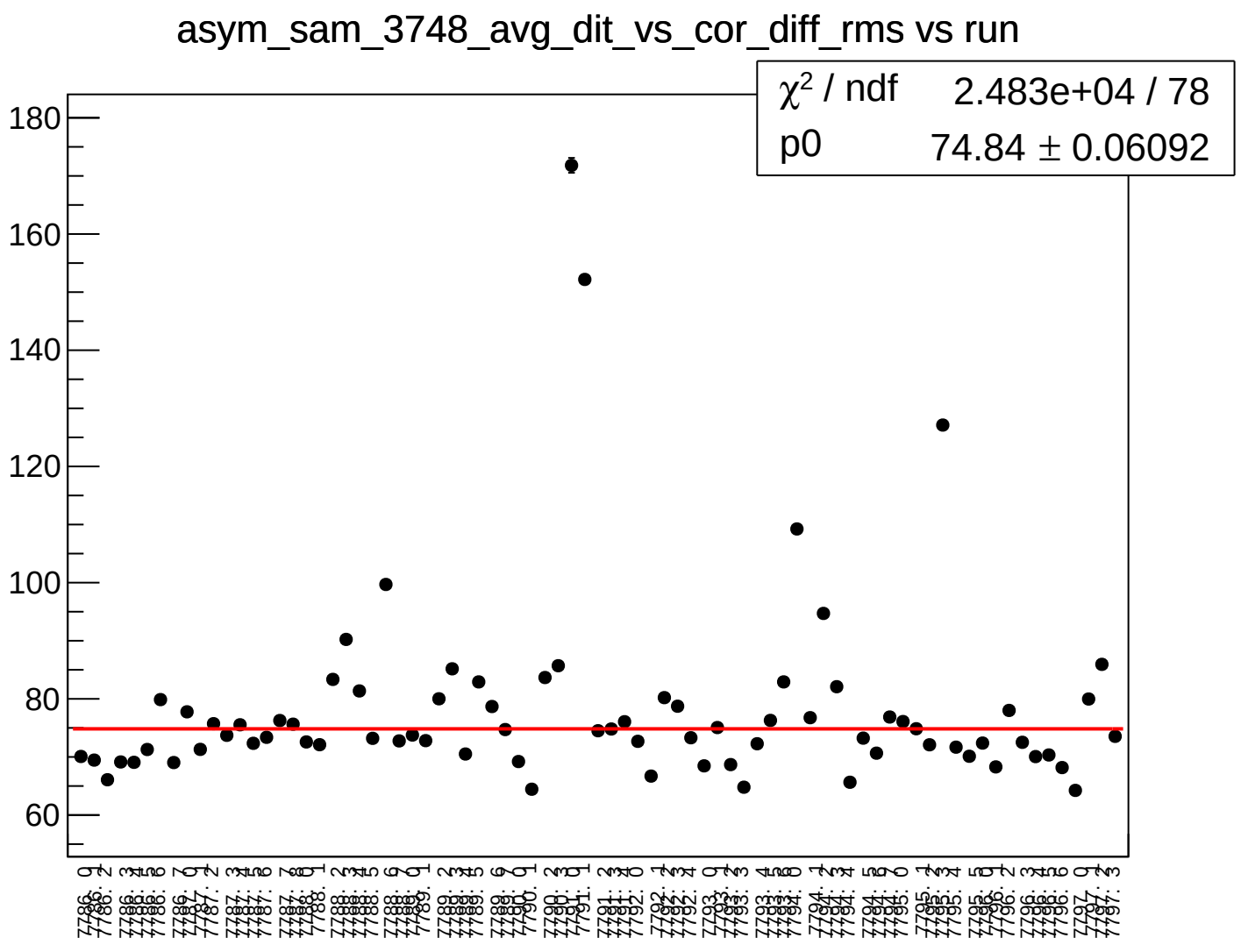

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 55.73 / 78
p0 −3.652e−13 ± 4.709e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 79
Mean 599.4
Std Dev 0
2
1
0
−1
−2

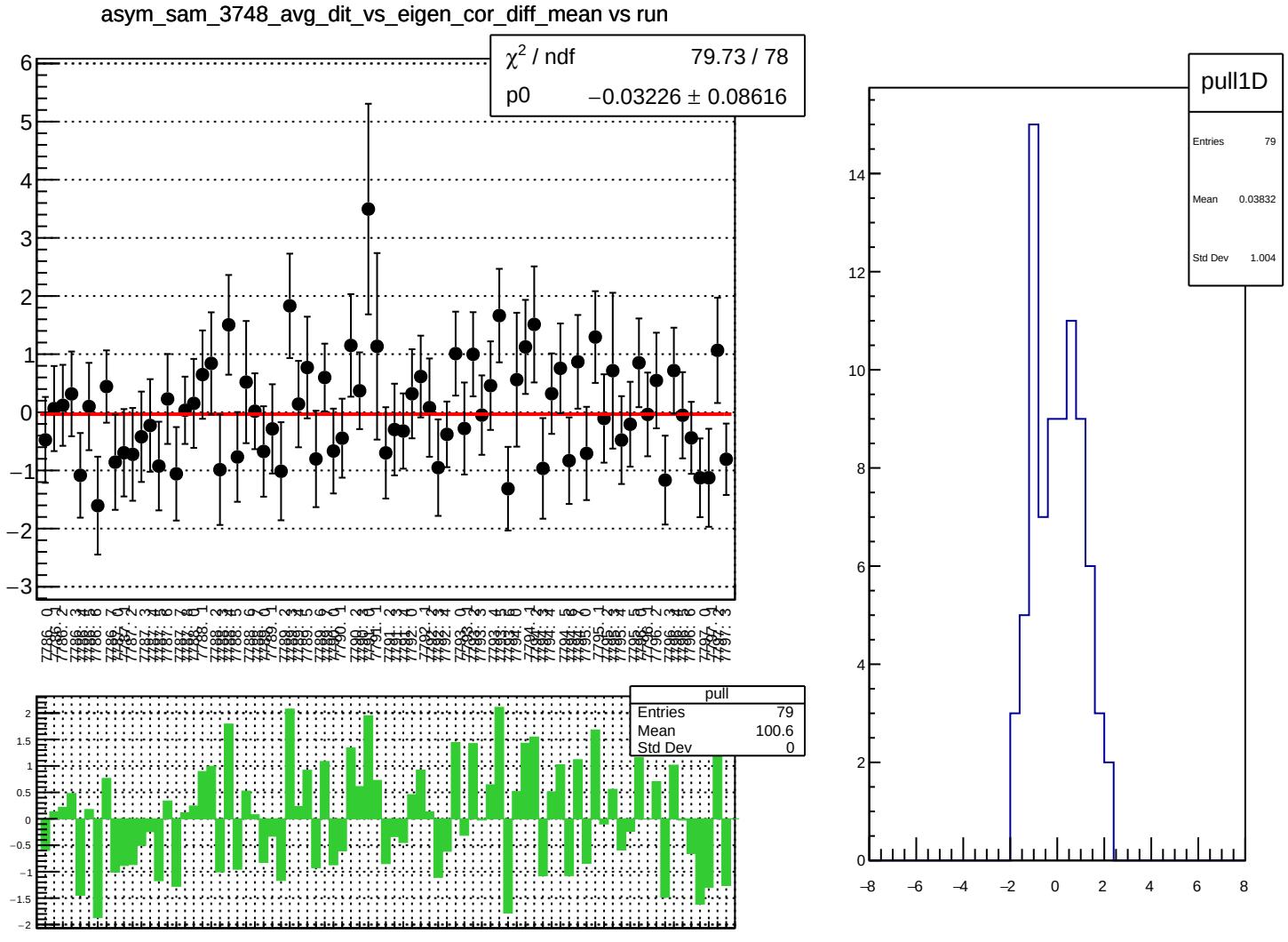

pull1D
Entries 79
Mean 0.002909
Std Dev 0.8399
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

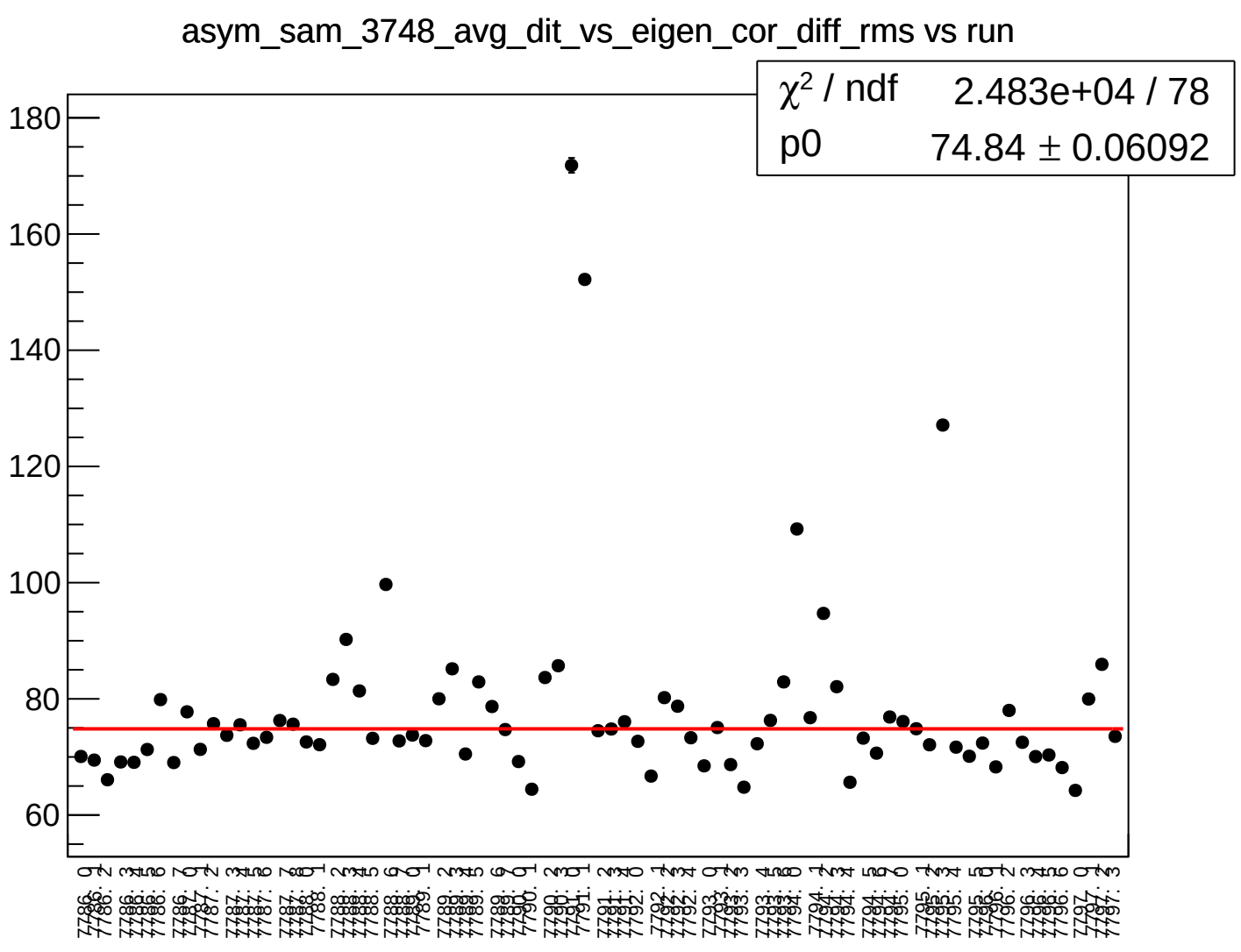

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.868e+05 / 78
p0 3.24e−10 ± 3.329e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

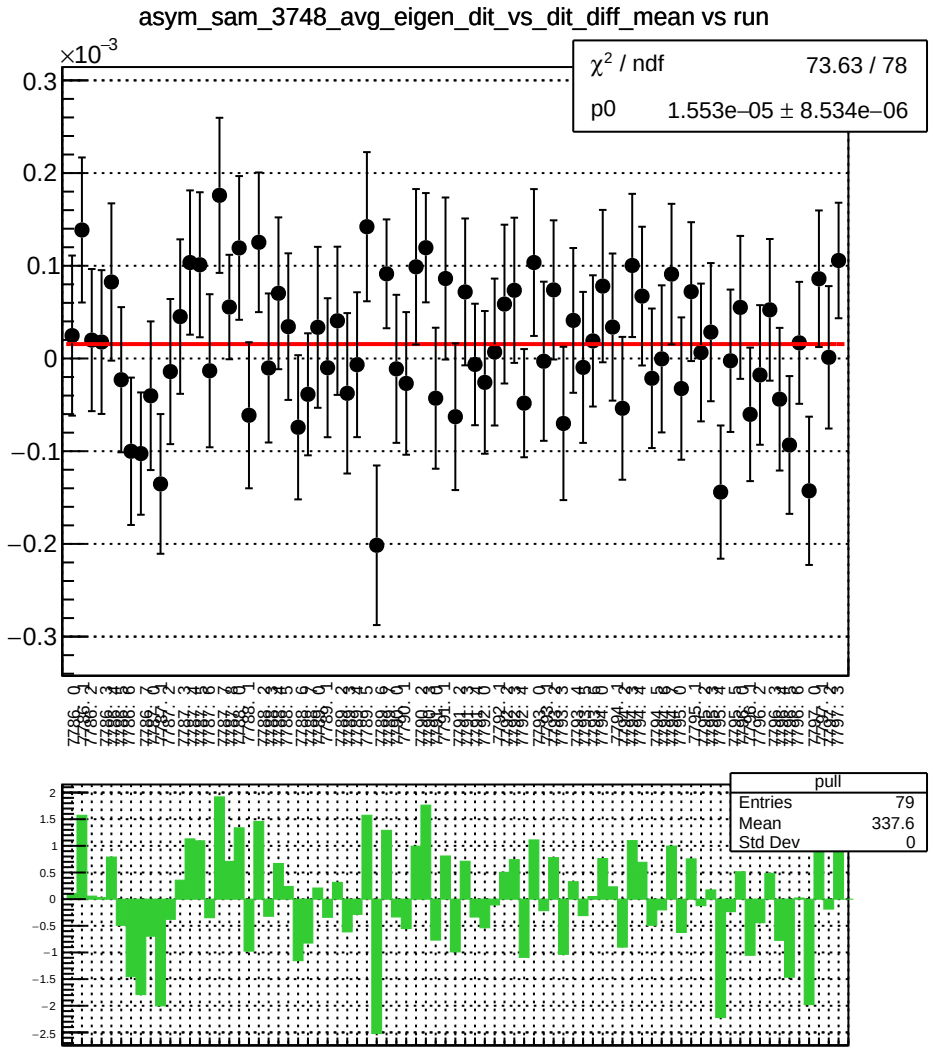

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.73 / 78
p0 −0.03226 ± 0.08616
pull
Entries 79
Mean 100.6
Std Dev 0

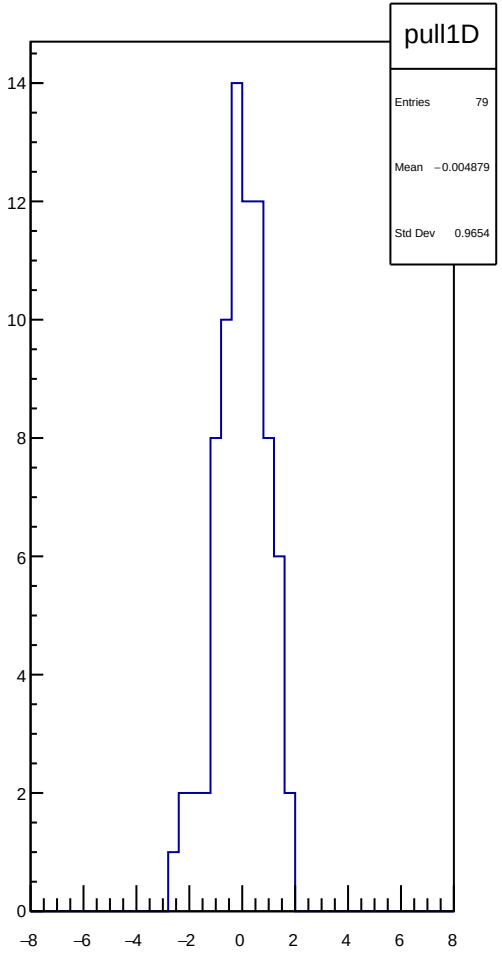

pull1D
Entries 79
Mean 0.03832
Std Dev 1.004

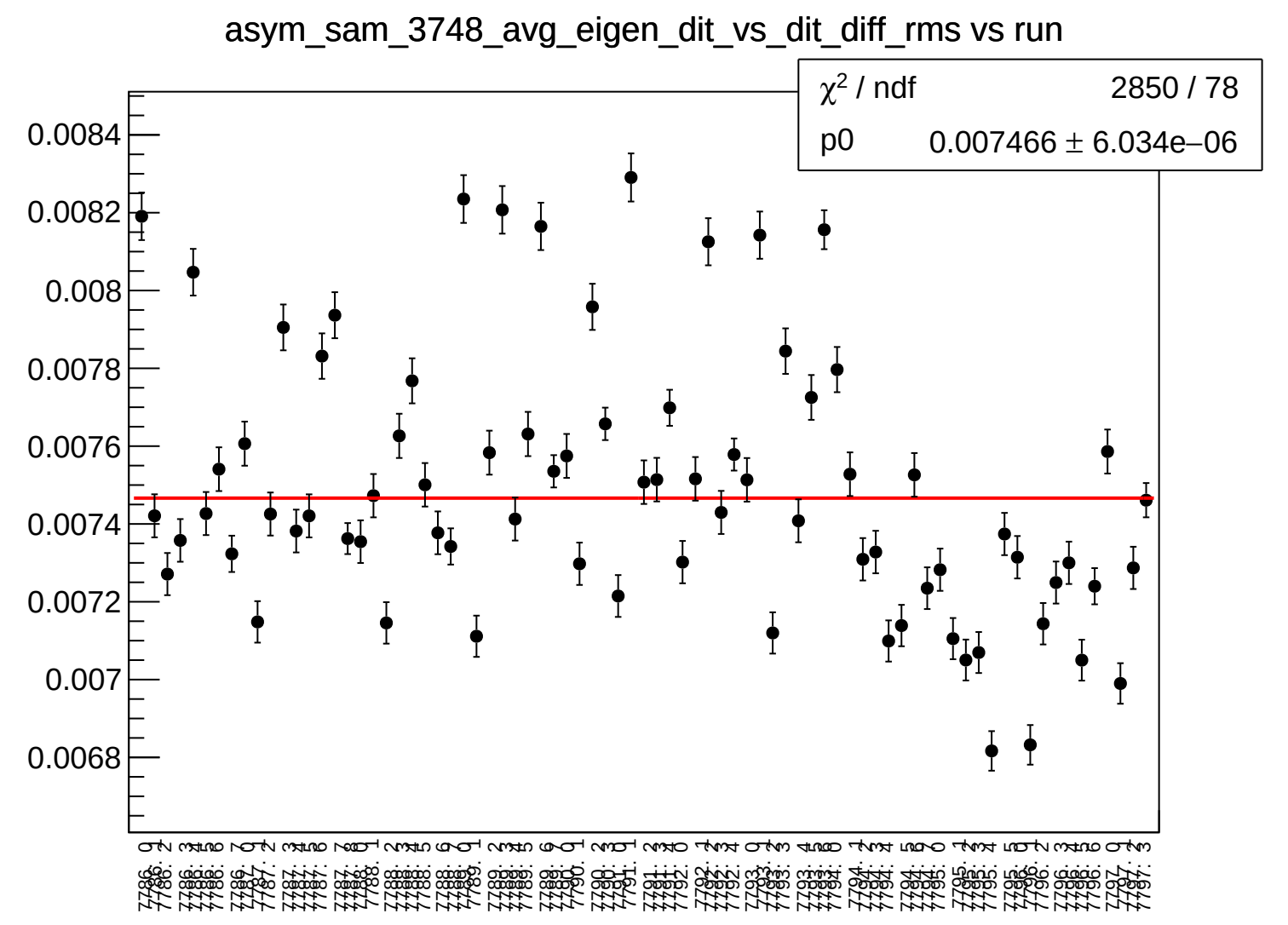

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.483e+04 / 78
p0 74.84 ± 0.06092
180
160
140
120
100
80
60

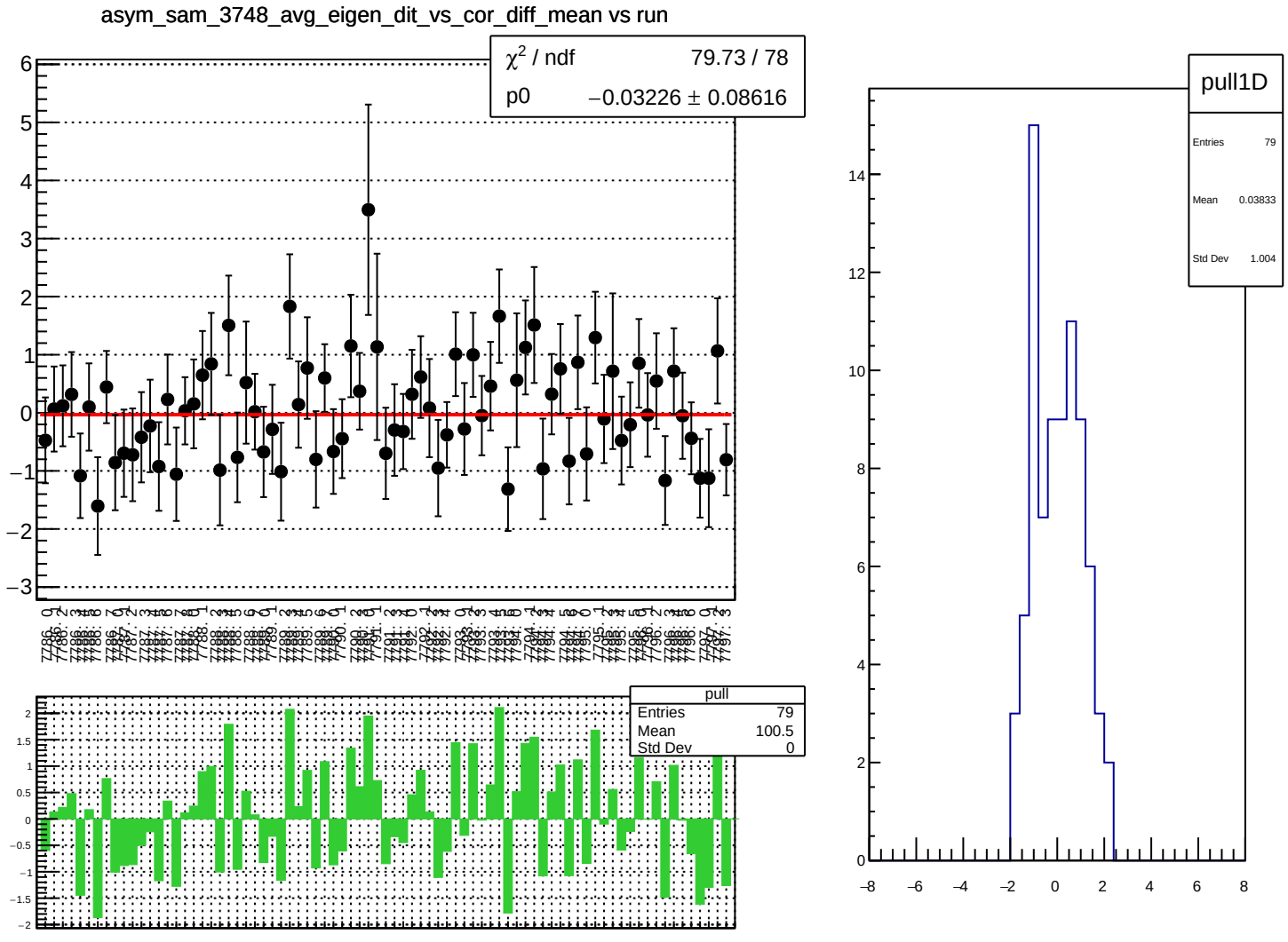

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.73 / 78
p0 −0.03226 ± 0.08616
pull
Entries 79
Mean 100.6
Std Dev 0
pull1D
Entries 79
Mean 0.03832
Std Dev 1.004

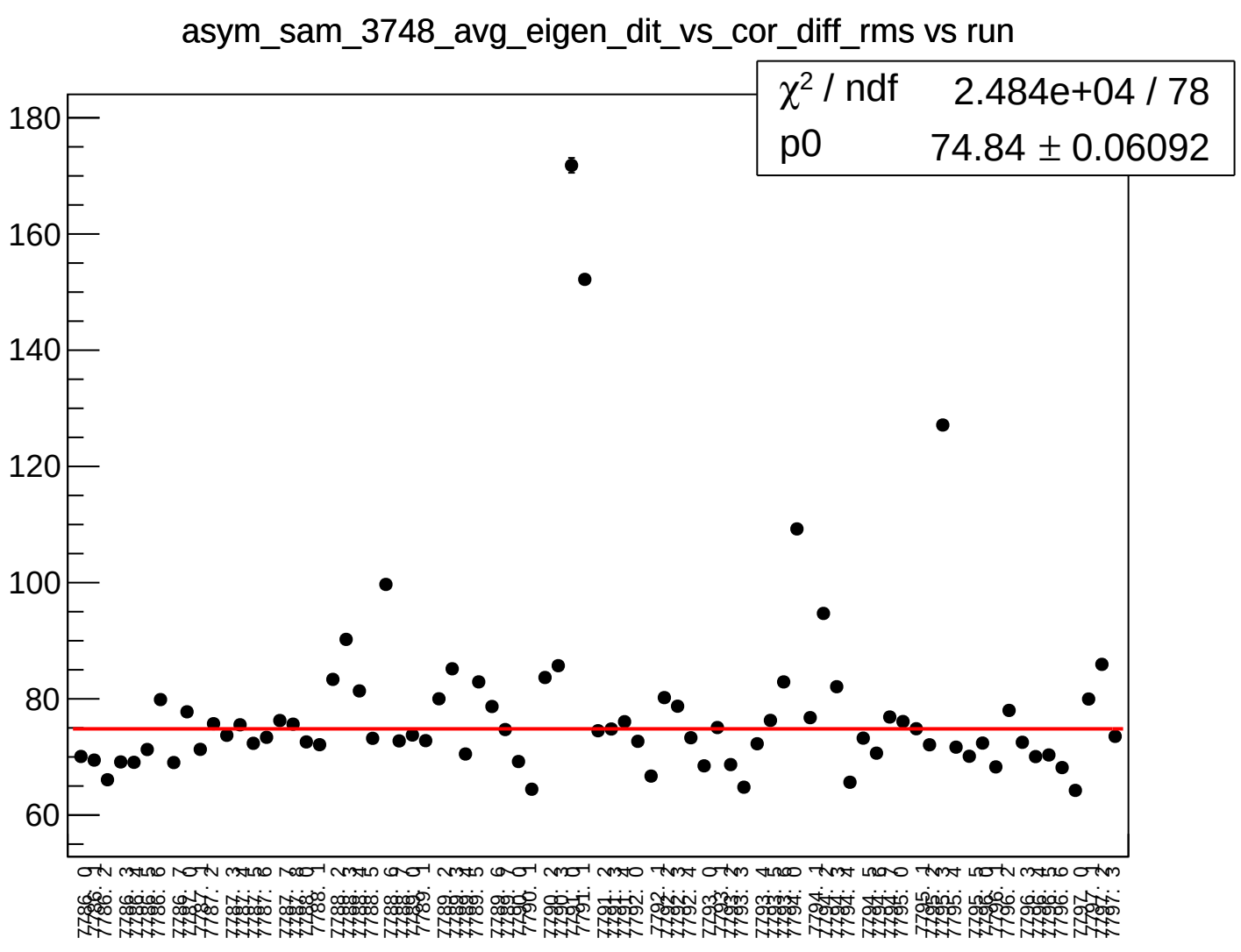

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.483e+04 / 78
p0 74.84 ± 0.06092
180
160
140
120
100
80
60

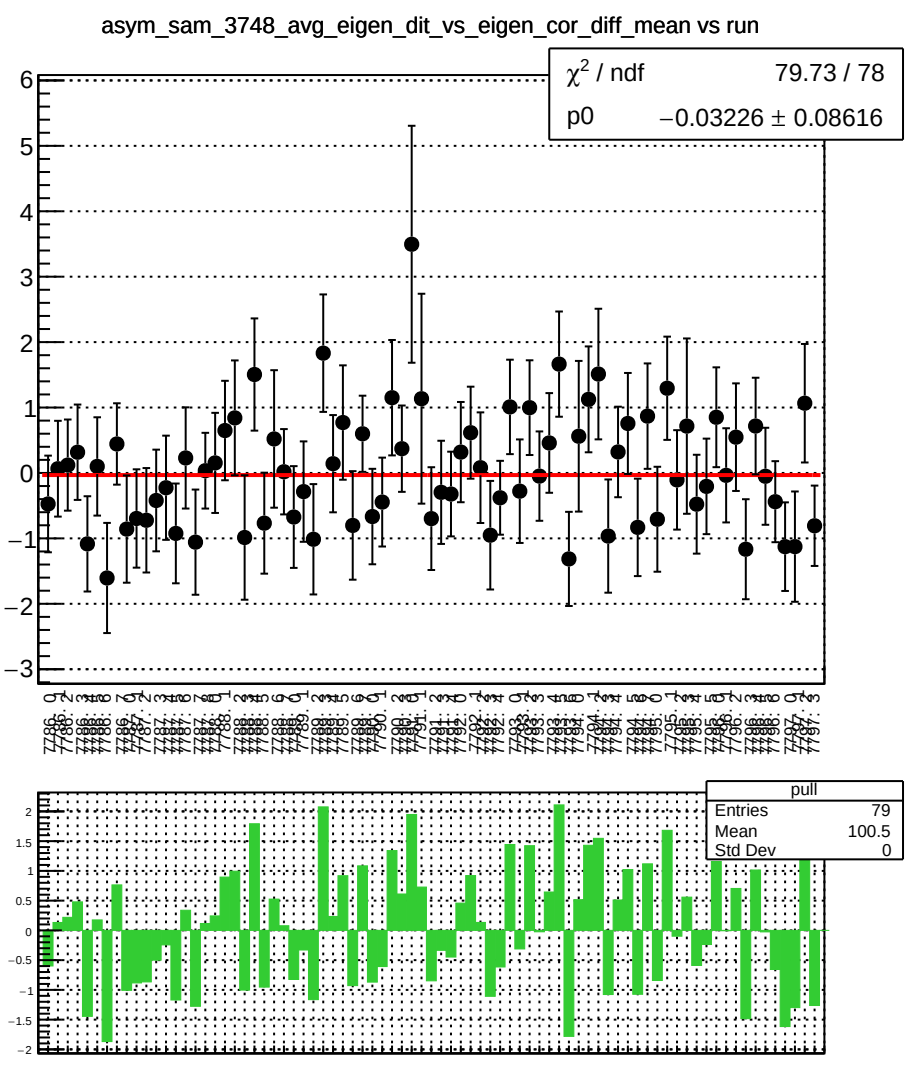

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.63 / 78
p0 1.553e−05 ± 8.534e−06
pull
Entries 79
Mean 337.6
Std Dev 0

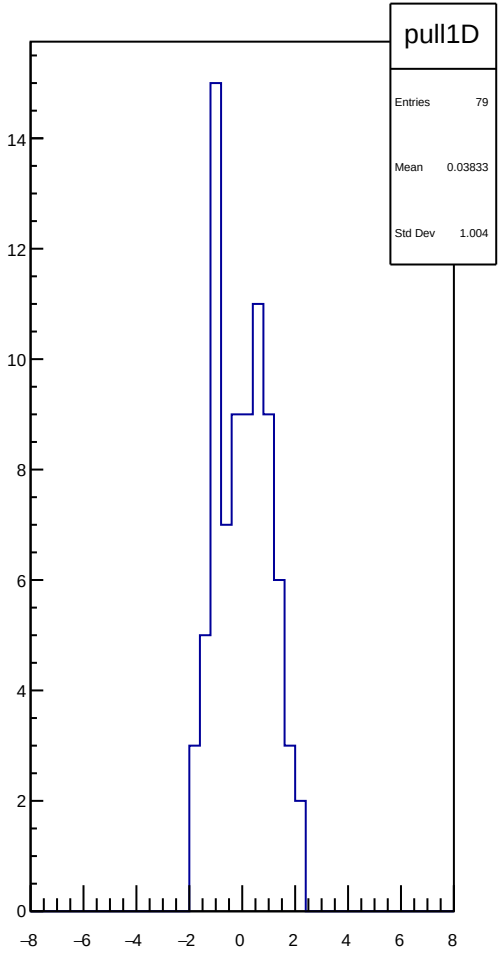

pull1D
Entries 79
Mean −0.004879
Std Dev 0.9654

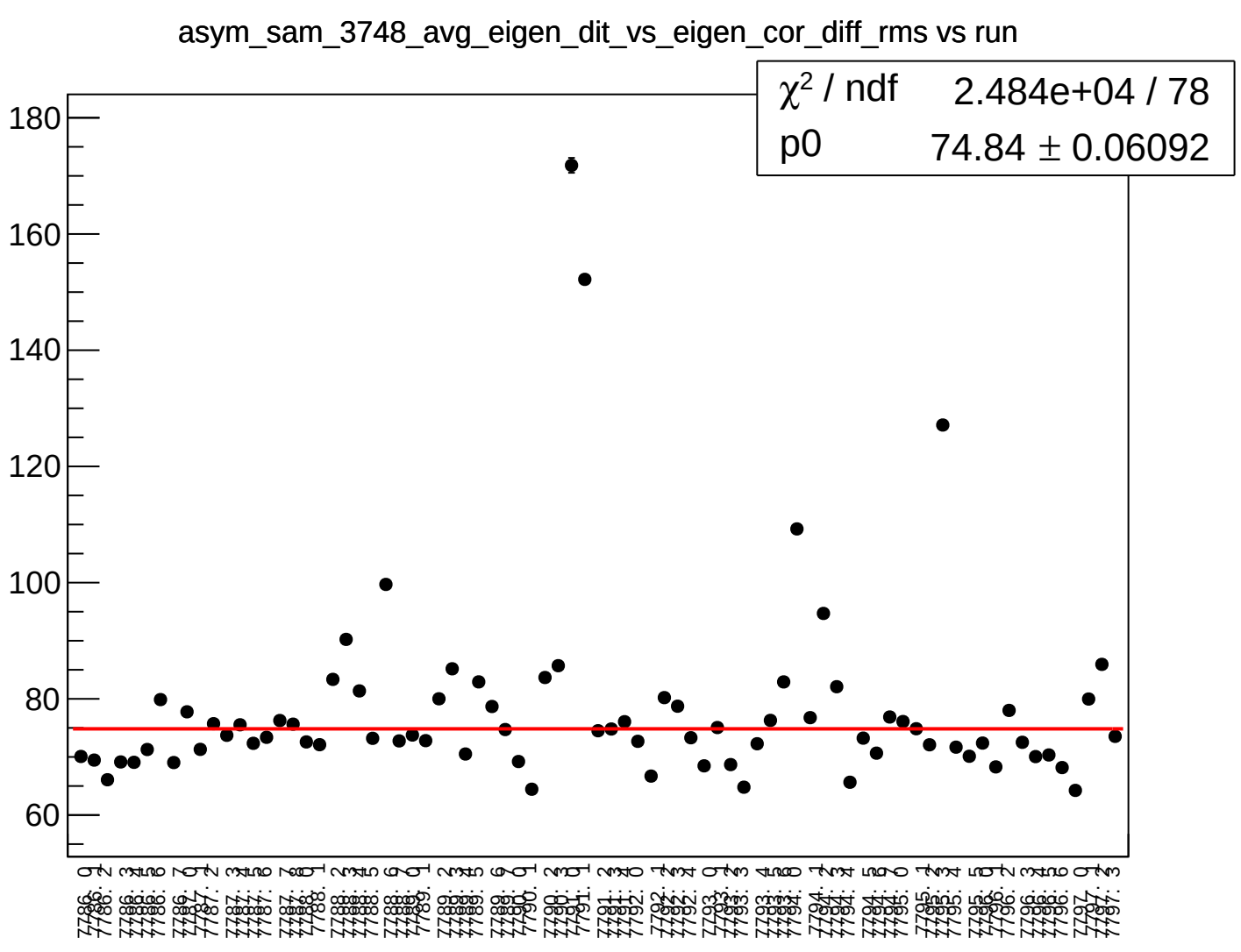

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2850 / 78
p0 0.007466 ± 6.034e−06
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068

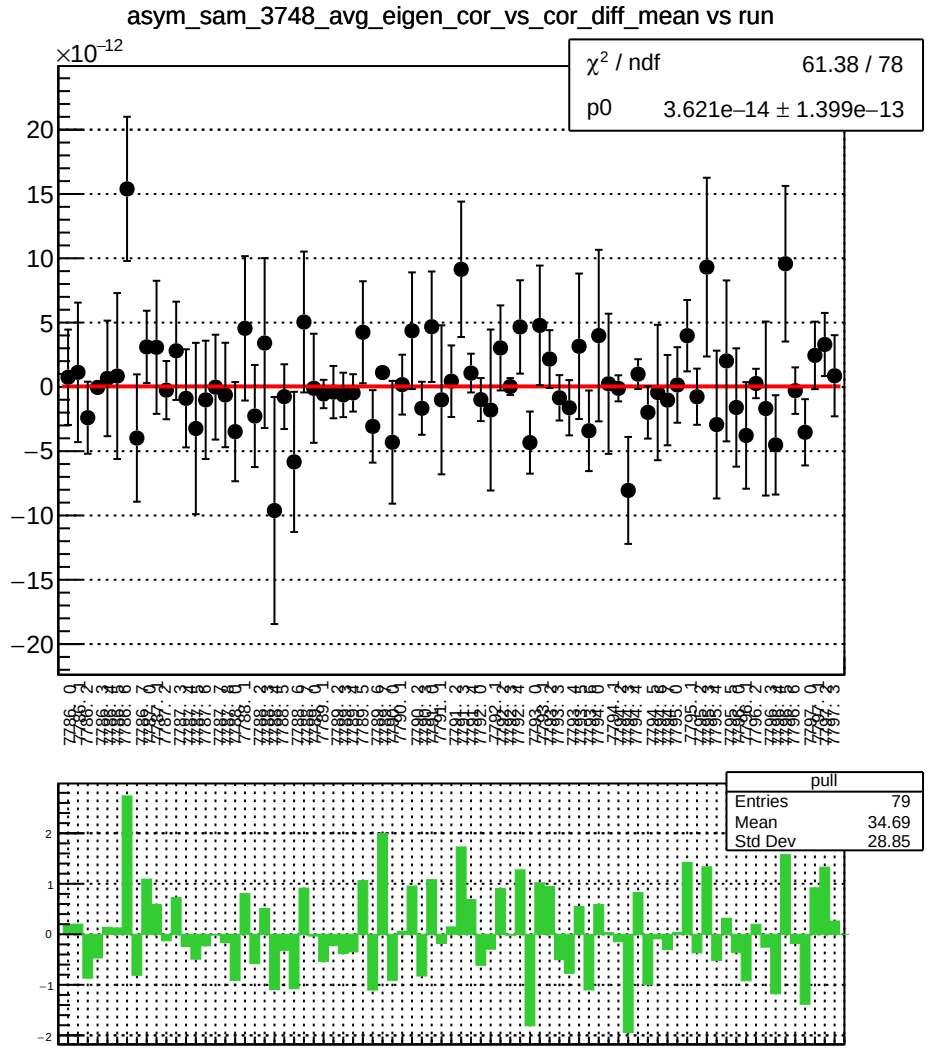

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.73 / 78
p0 −0.03226 ± 0.08616
pull
Entries 79
Mean 100.5
Std Dev 0
pull1D
Entries 79
Mean 0.03833
Std Dev 1.004

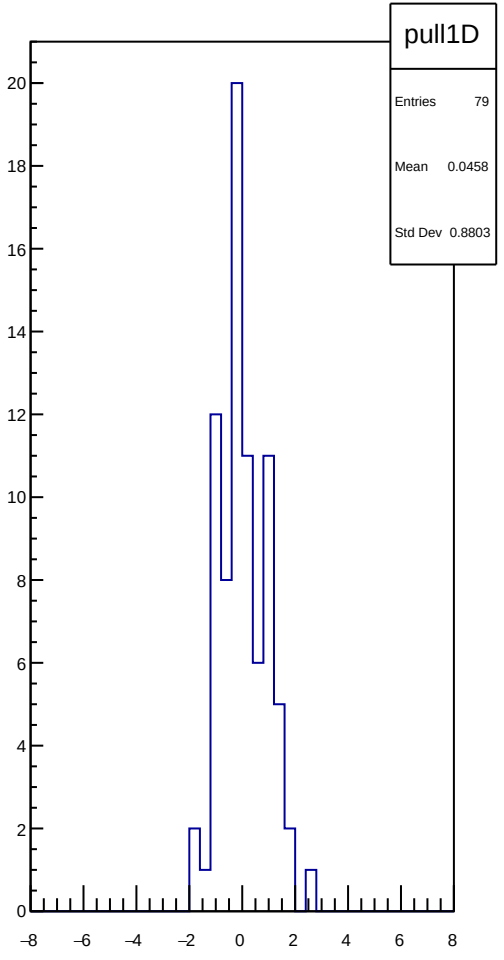

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.484e+04 / 78
p0 74.84 ± 0.06092
180
160
140
120
100
80
60

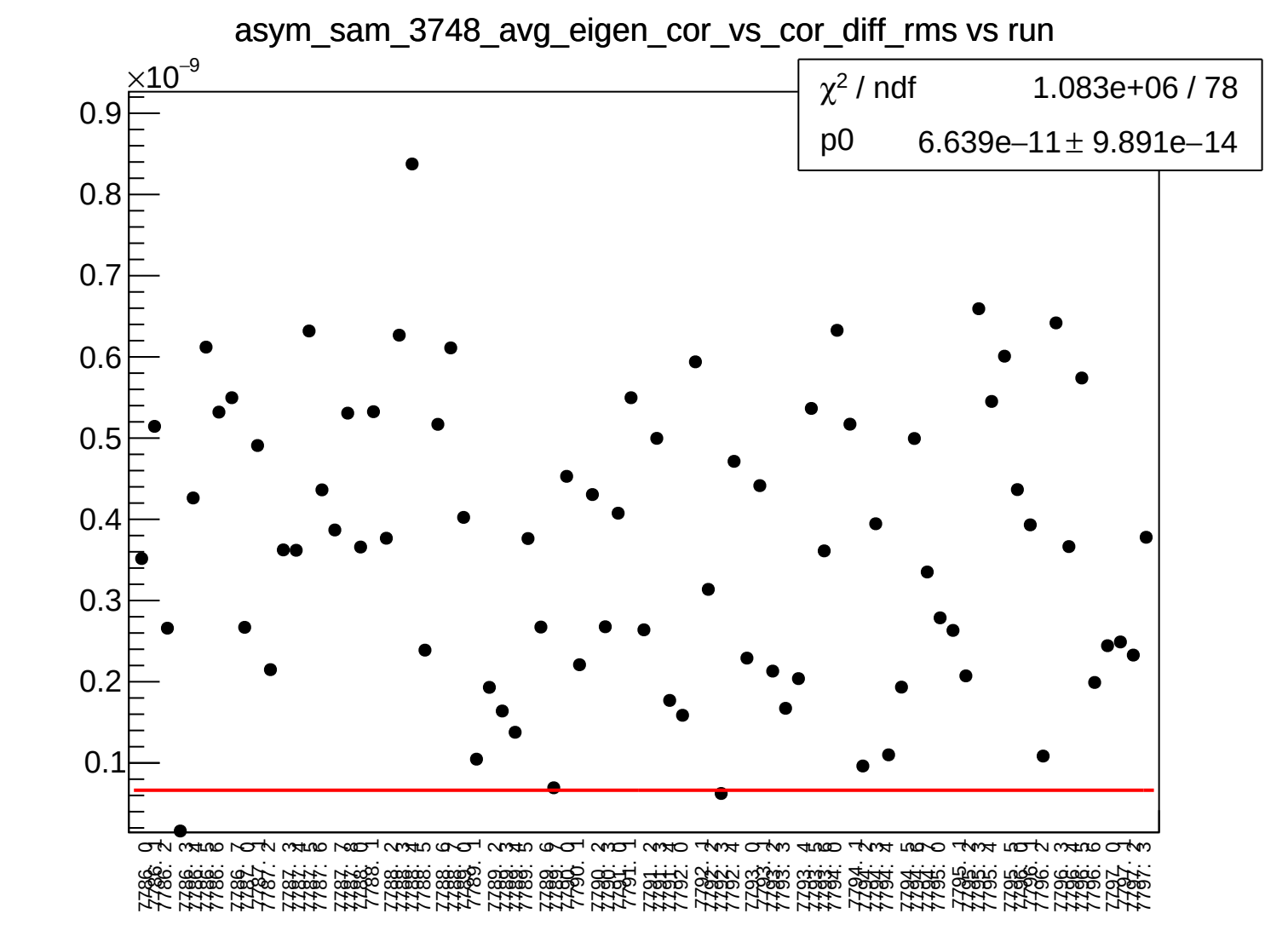

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.73 / 78
p0 −0.03226 ± 0.08616
pull
Entries 79
Mean 100.5
Std Dev 0

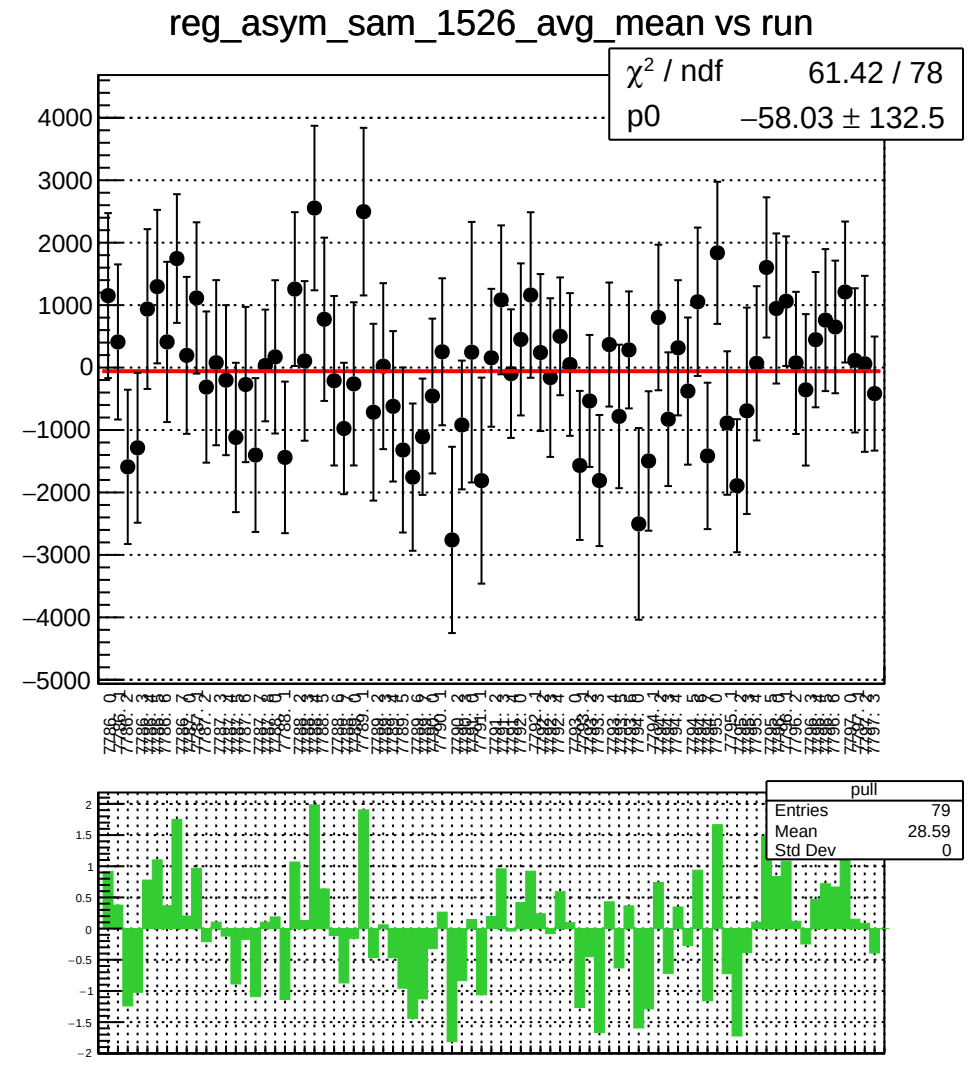

pull1D
Entries 79
Mean 0.03833
Std Dev 1.004

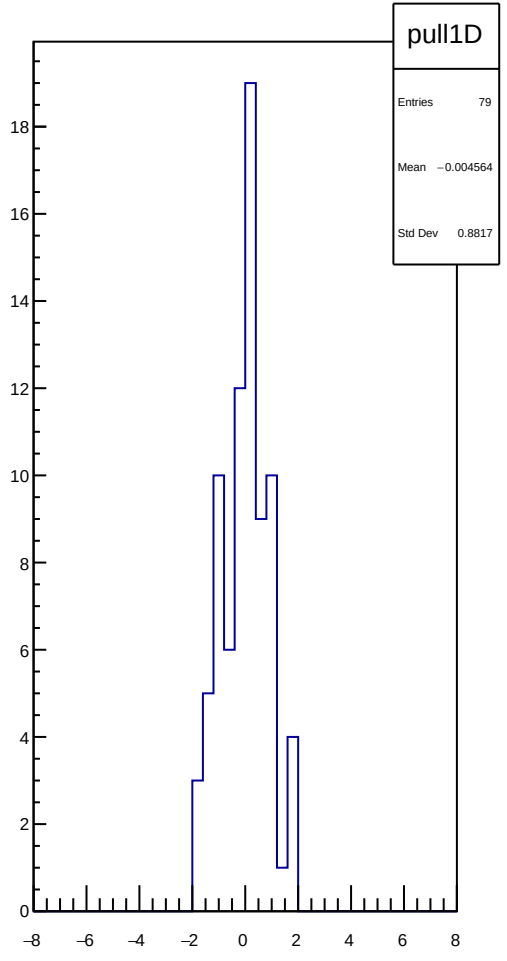

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.484e+04 / 78
p0 74.84 ± 0.06092
180
160
140
120
100
80
60

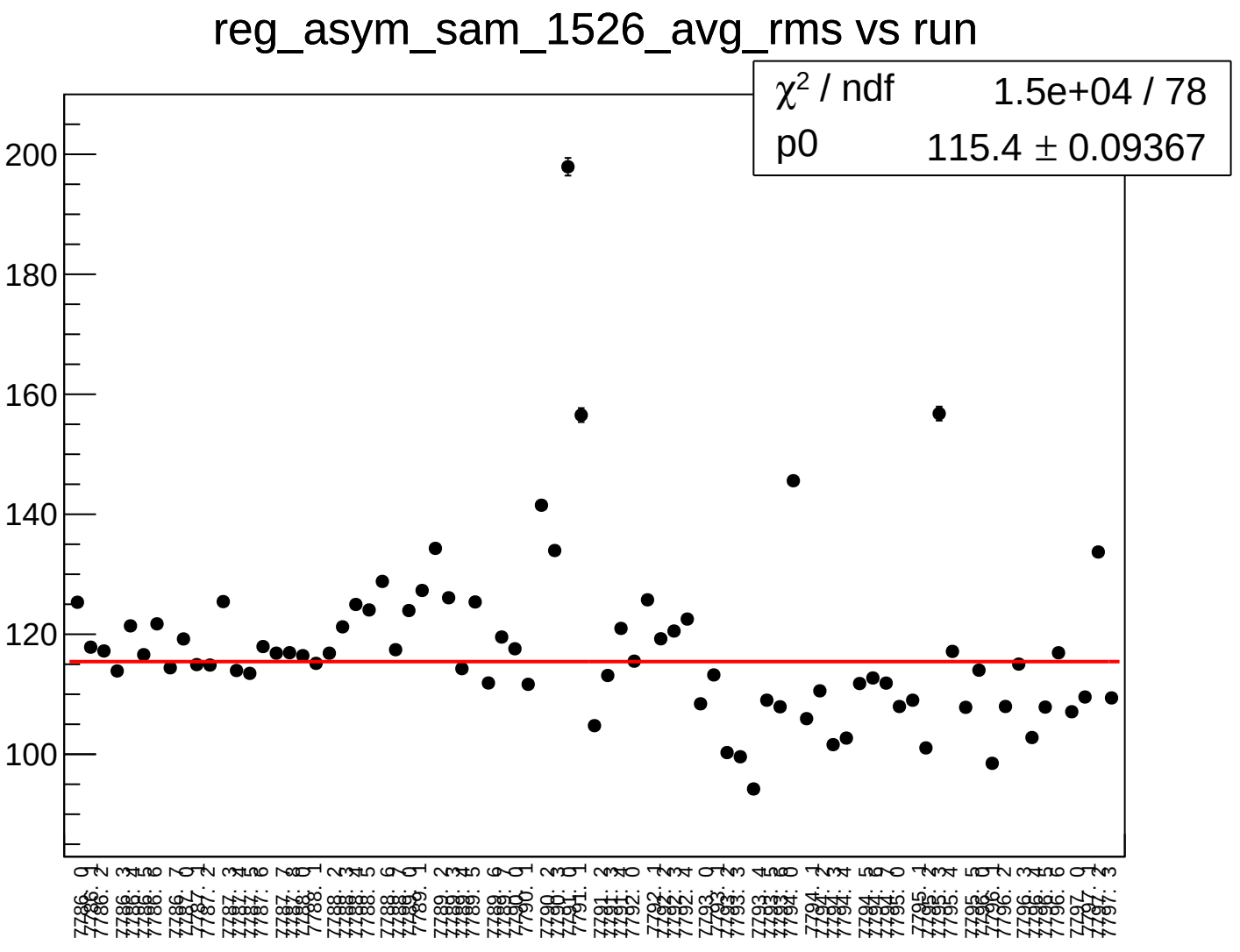

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.38 / 78
p0 3.621e−14 ± 1.399e−13
pull
Entries 79
Mean 34.69
Std Dev 28.85

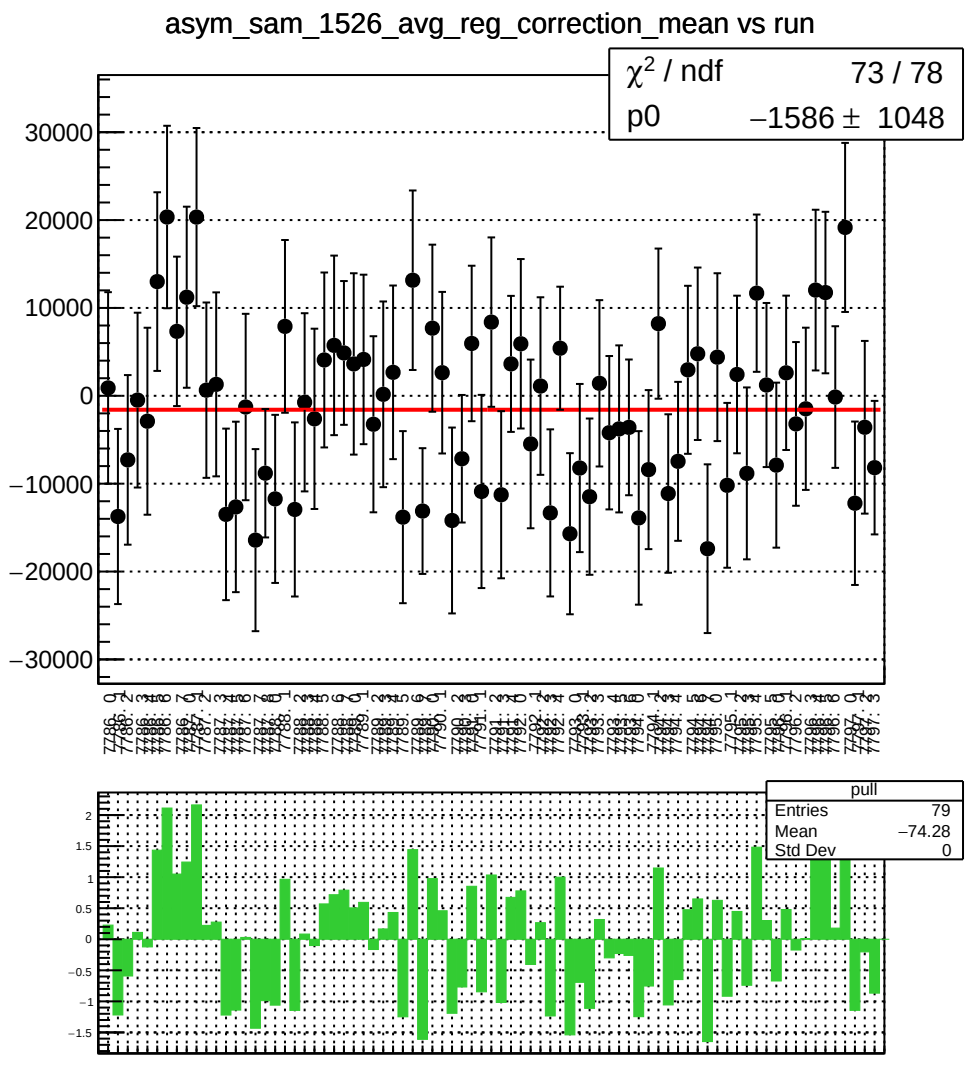

pull1D
Entries 79
Mean 0.0458
Std Dev 0.8803

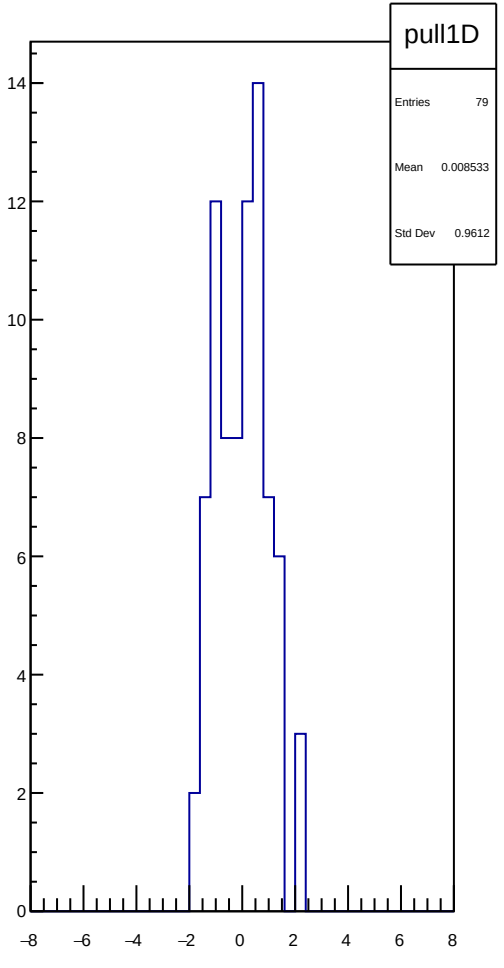

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.083e+06 / 78
p0 6.639e−11 ± 9.891e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

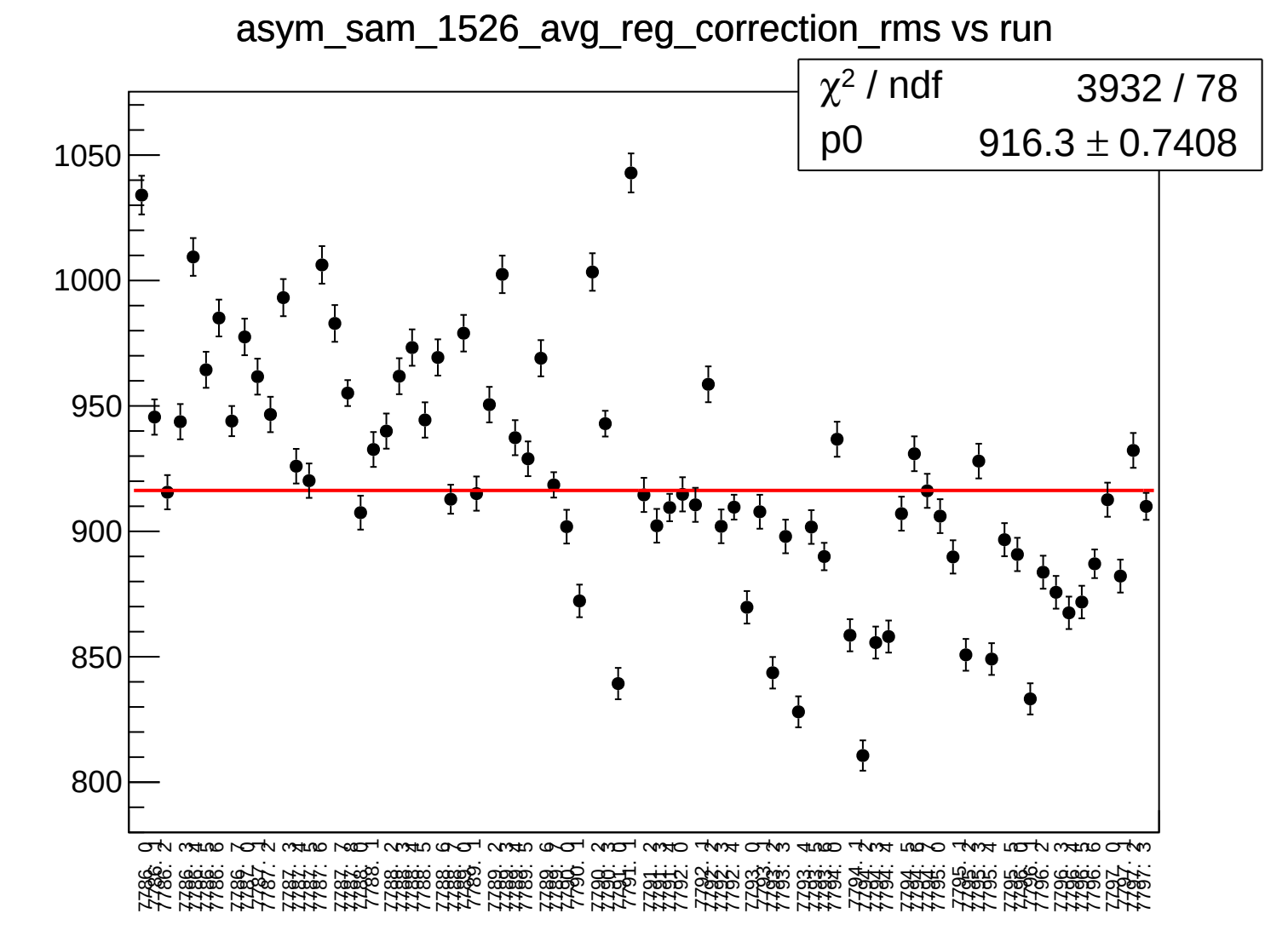

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 61.42 / 78
p0 −58.03 ± 132.5
pull
Entries 79
Mean 28.59
Std Dev 0

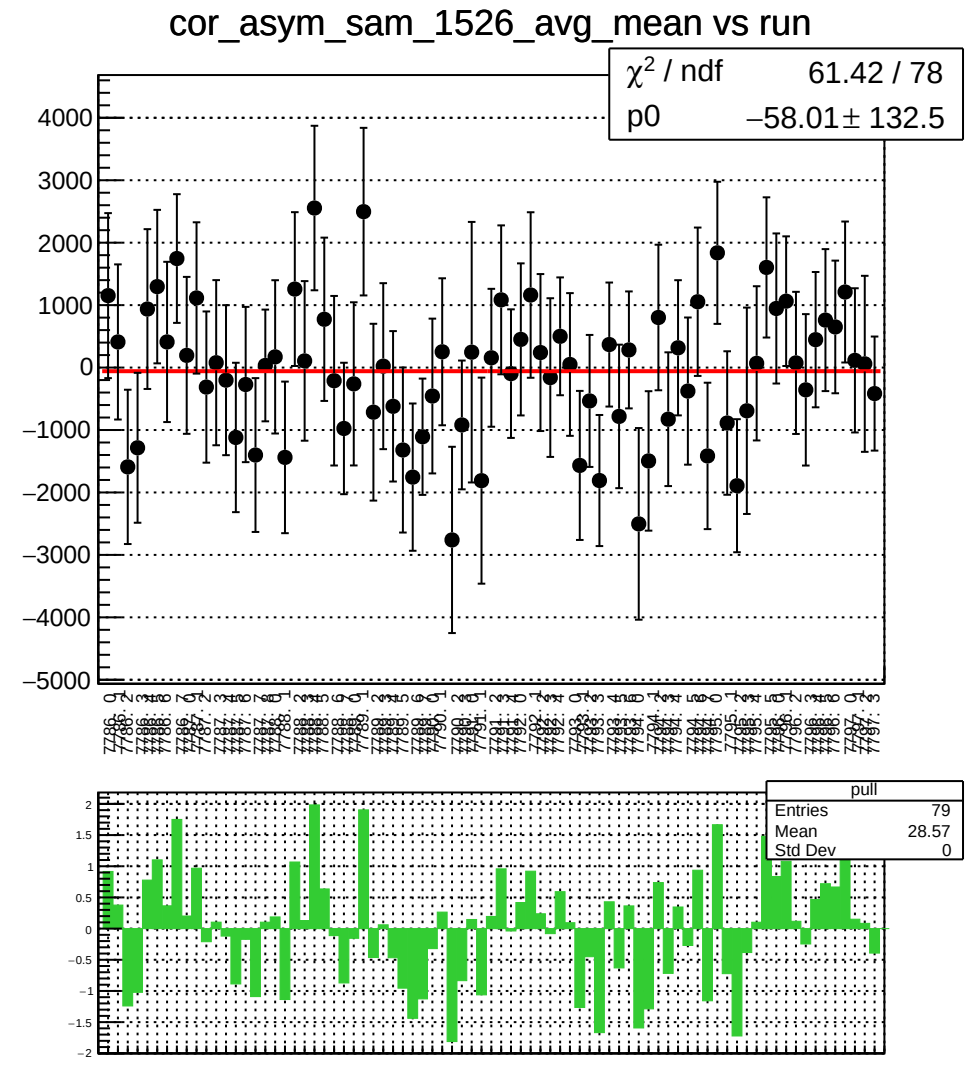

pull1D
Entries 79
Mean −0.004564
Std Dev 0.8817

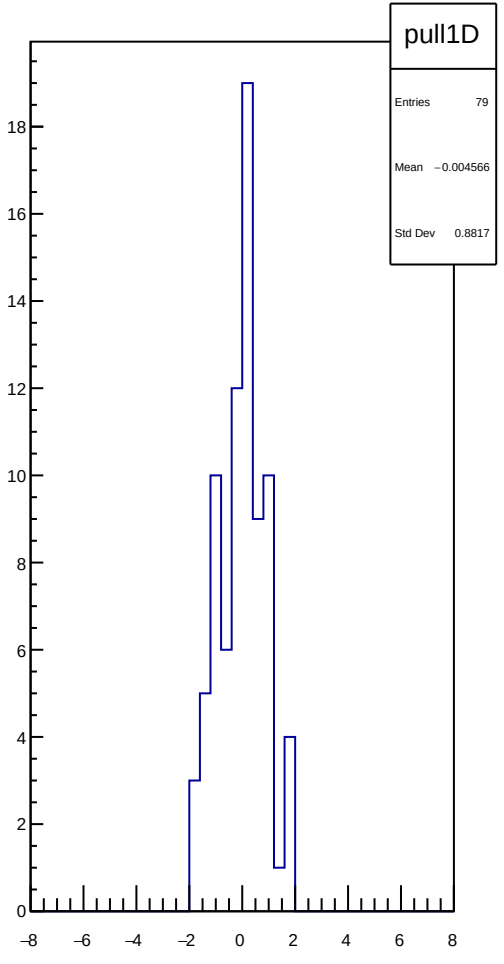

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.5e+04 / 78
p0 115.4 ± 0.09367
200
180
160
140
120
100

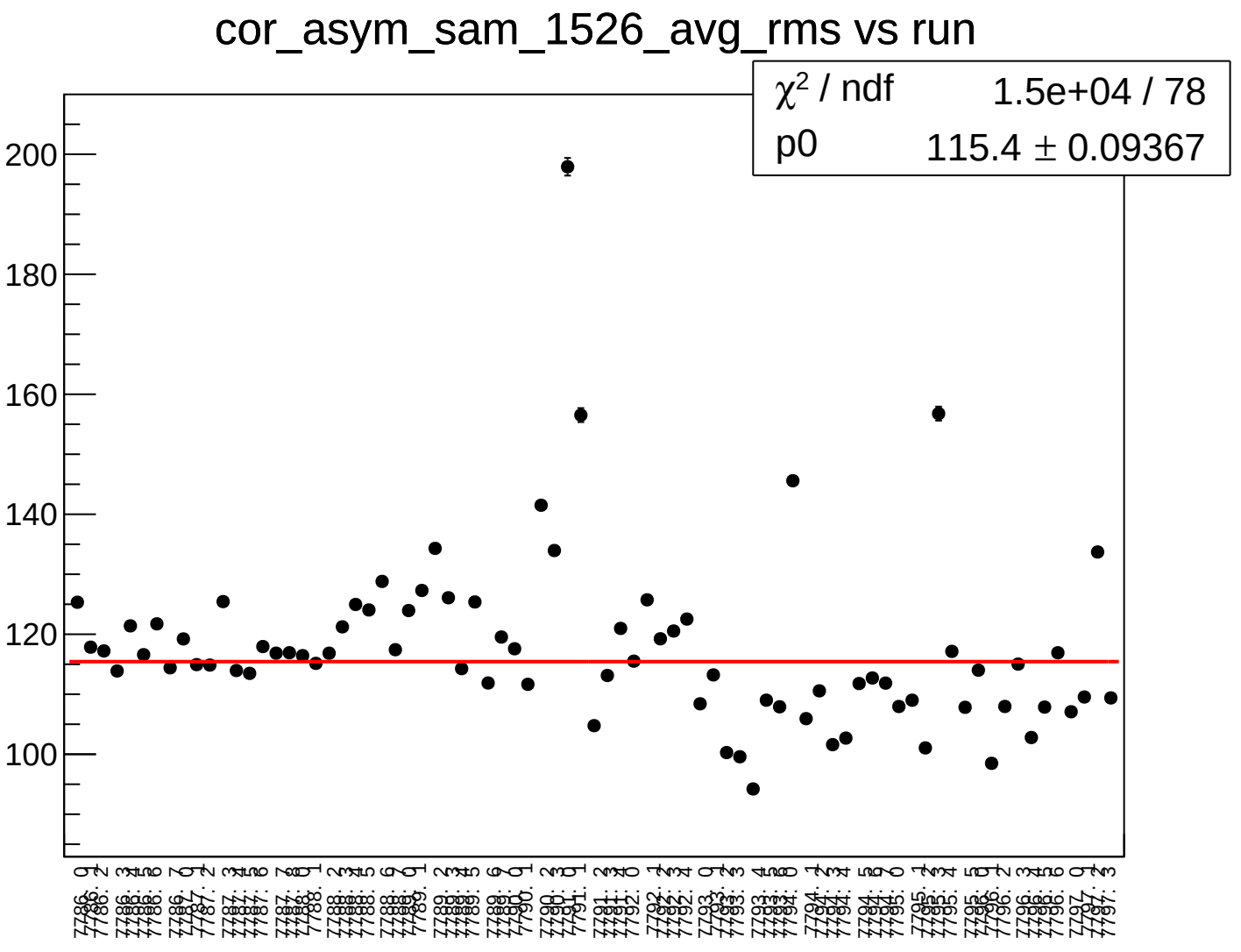

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 73 / 78
p0 −1586 ± 1048
pull
Entries 79
Mean −74.28
Std Dev 0


pull1D
Entries 79
Mean 0.008533
Std Dev 0.9612

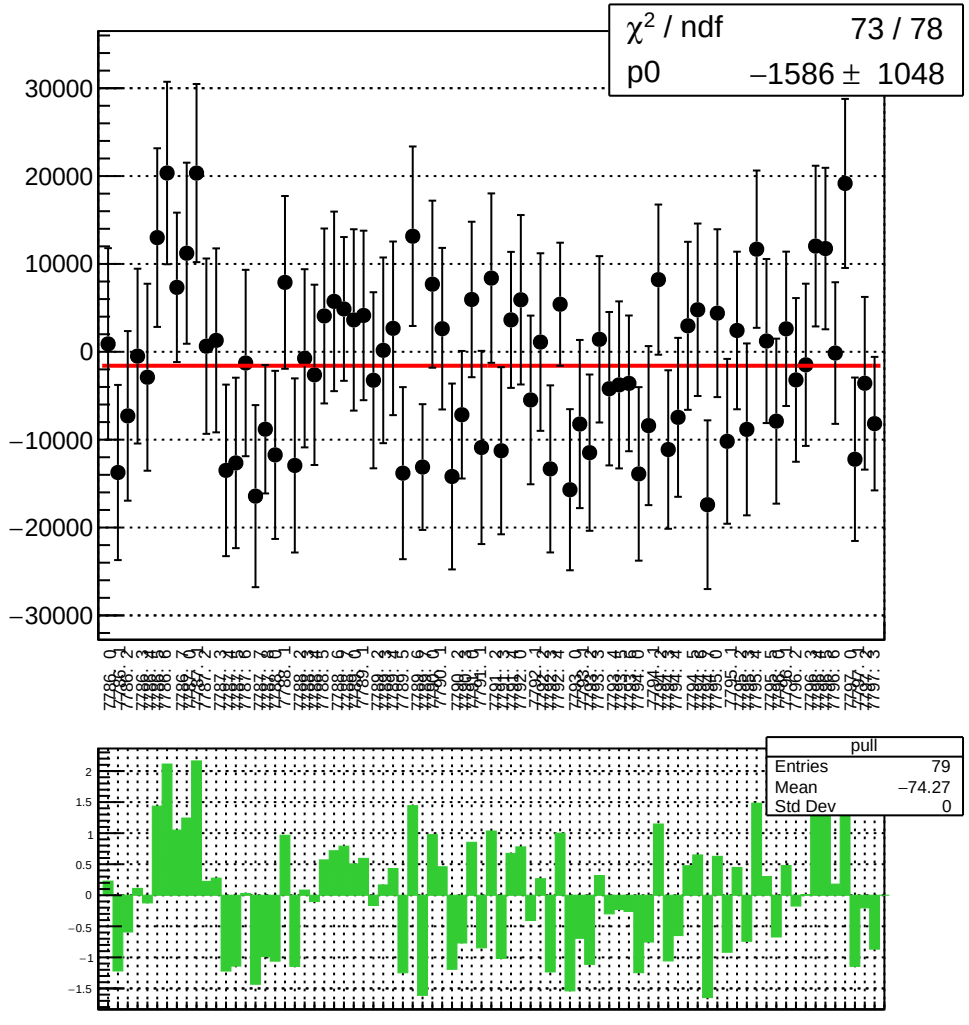

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 3932 / 78
p0 916.3 ± 0.7408
1050
1000
950
900
850
800

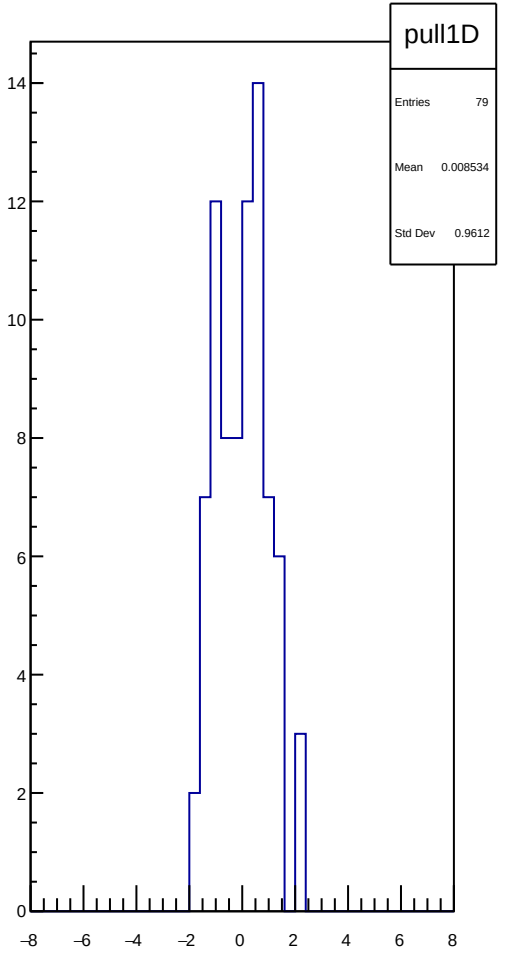

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 61.42 / 78
p0 −58.01± 132.5
pull
Entries 79
Mean 28.57
Std Dev 0

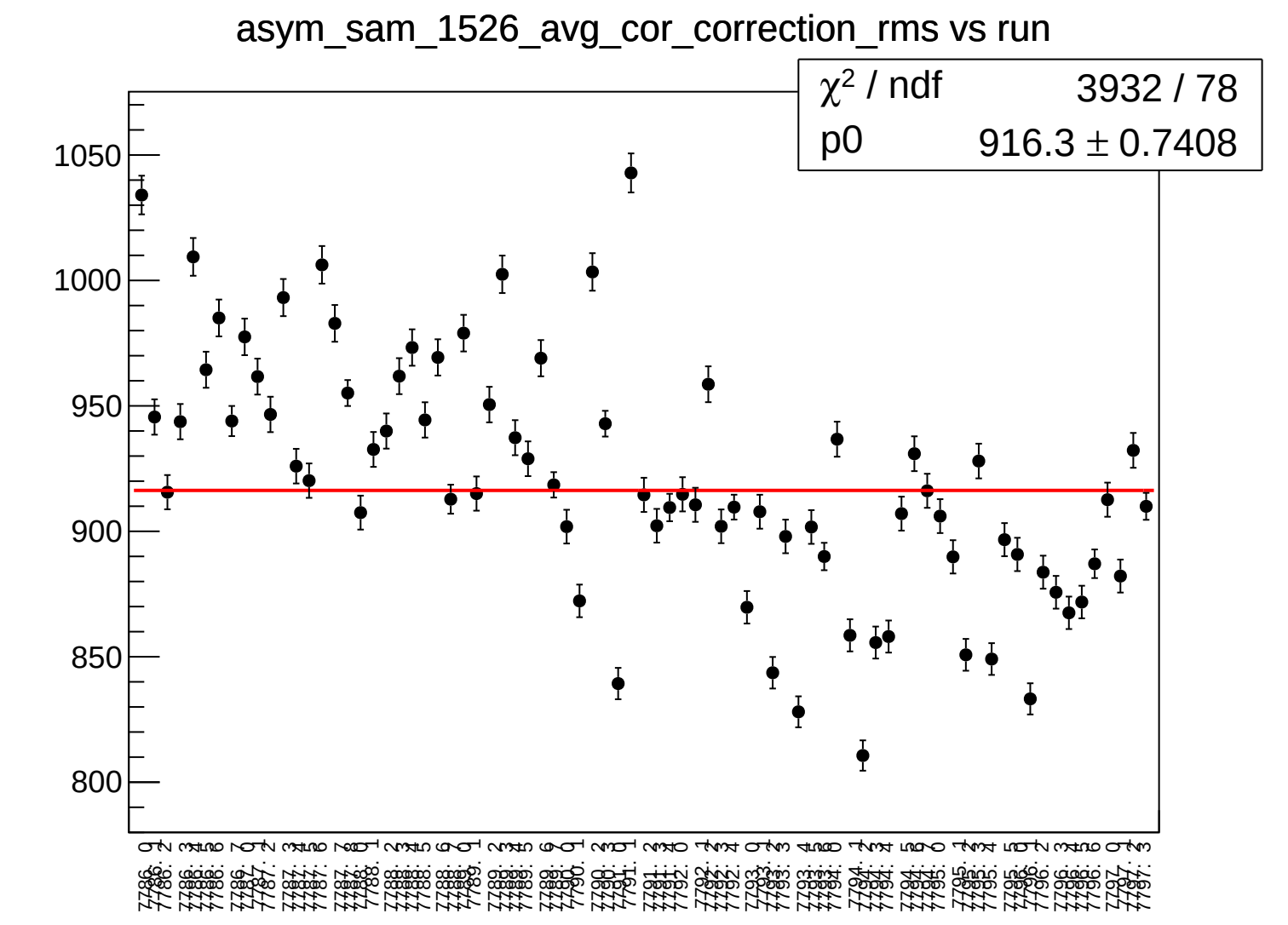

pull1D
Entries 79
Mean −0.004566
Std Dev 0.8817

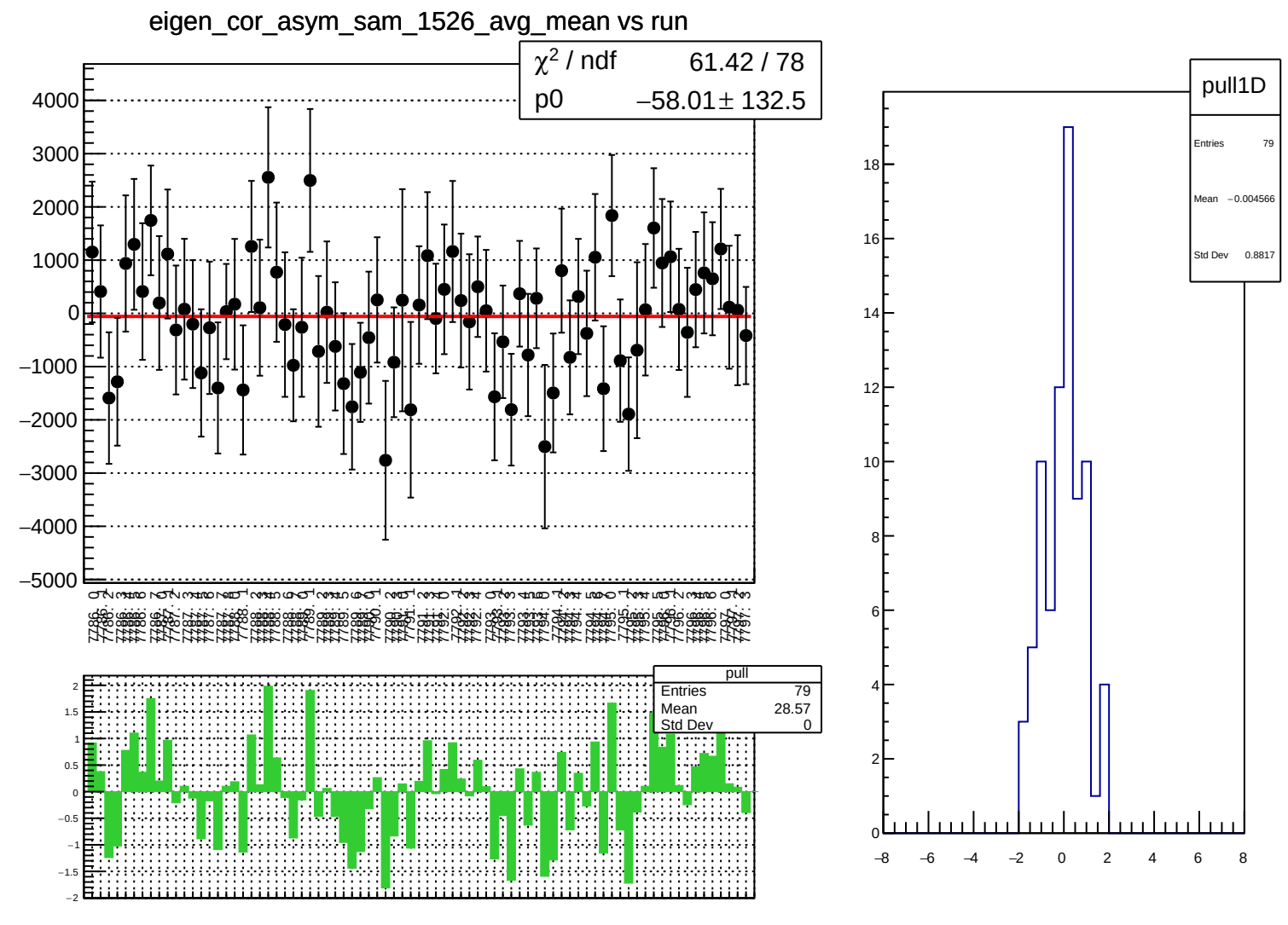

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.5e+04 / 78
p0 115.4 ± 0.09367
200
180
160
140
120
100

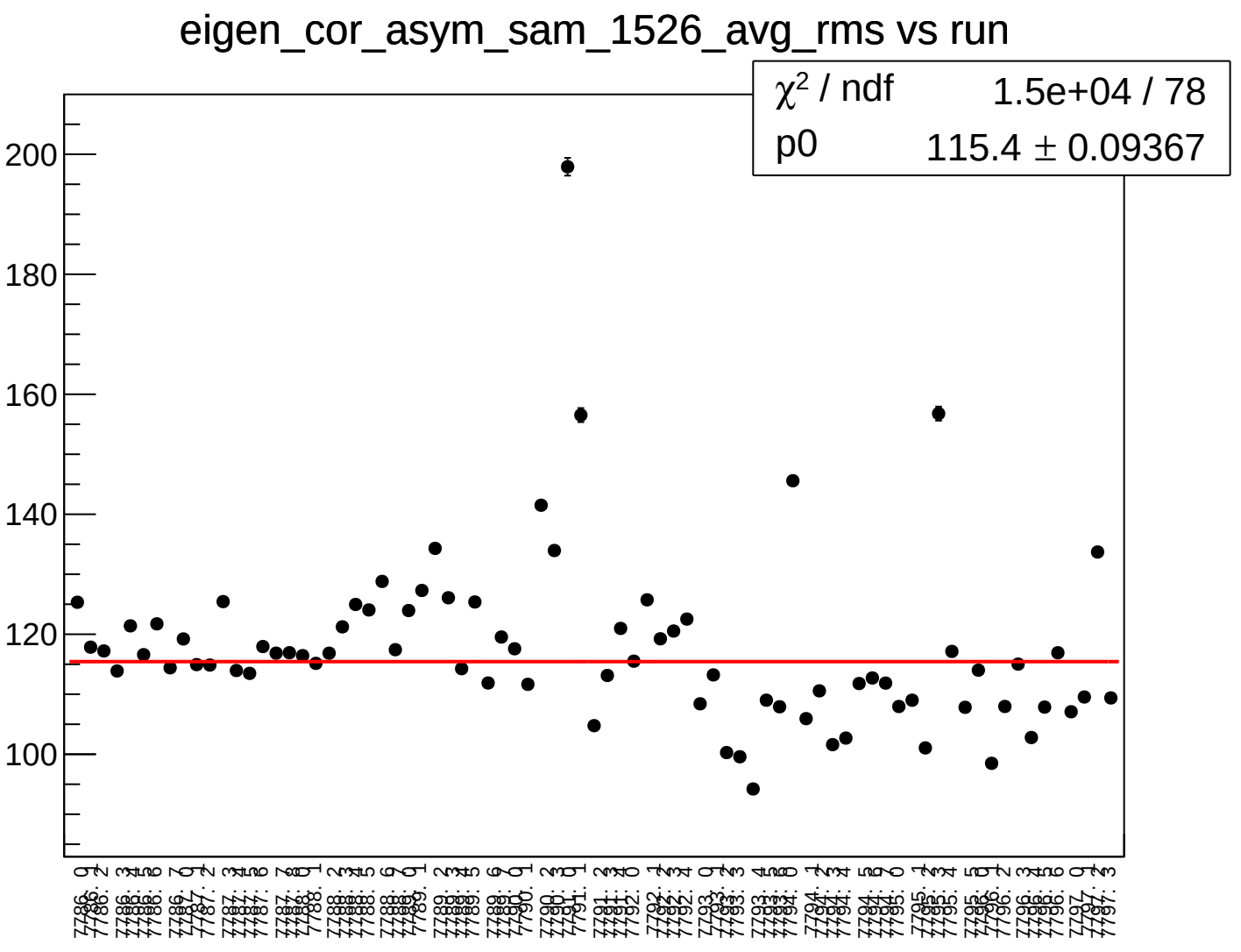
asym_sam_1526_avg_cor_correction_mean vs run

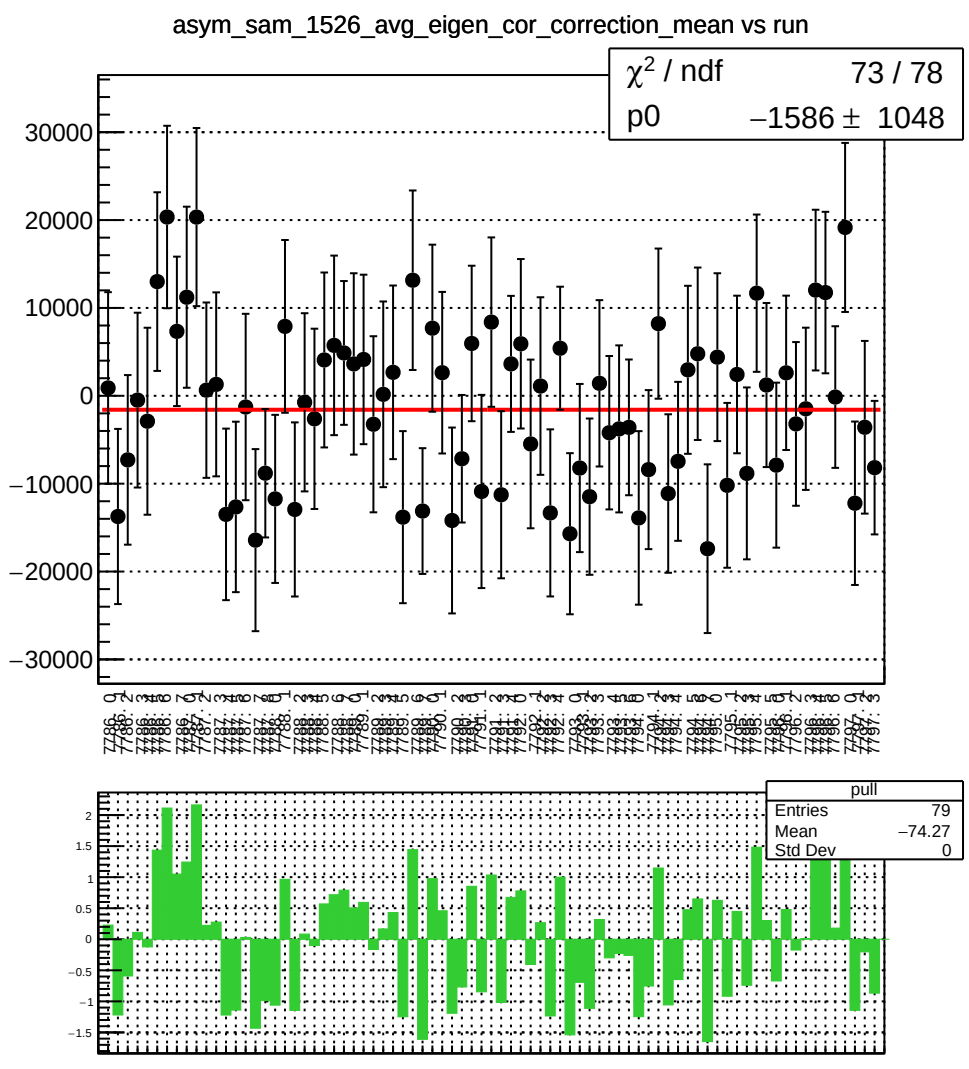


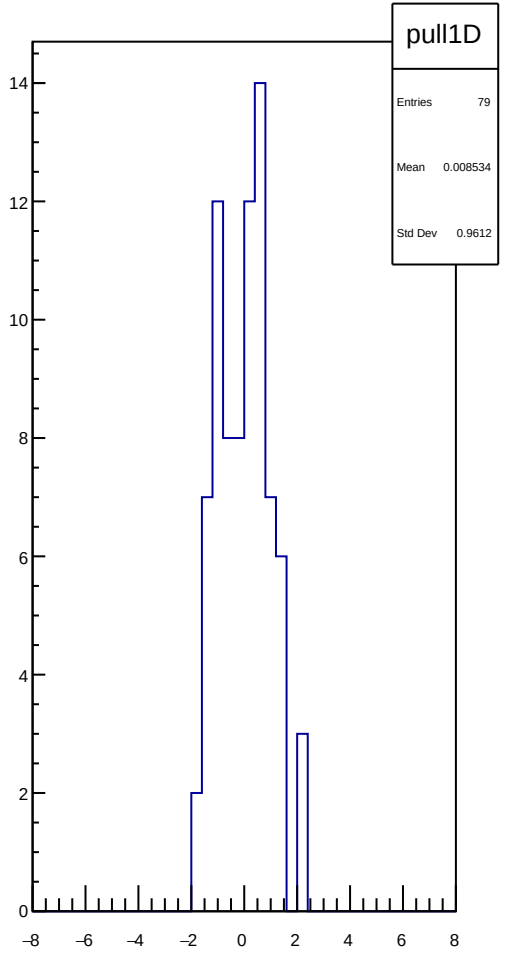


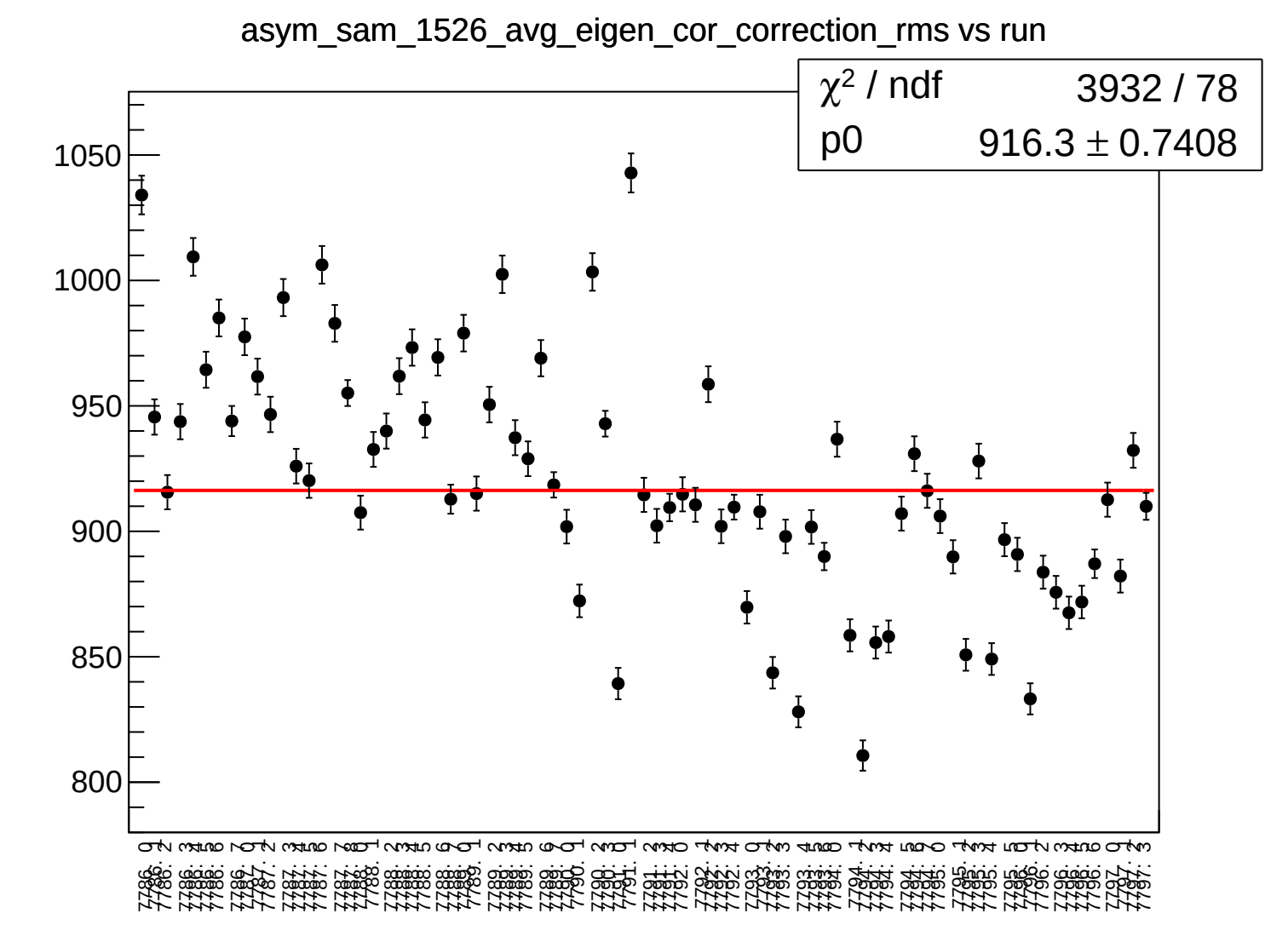

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 3932 / 78
p0 916.3 ± 0.7408
1050
1000
950
900
850
800

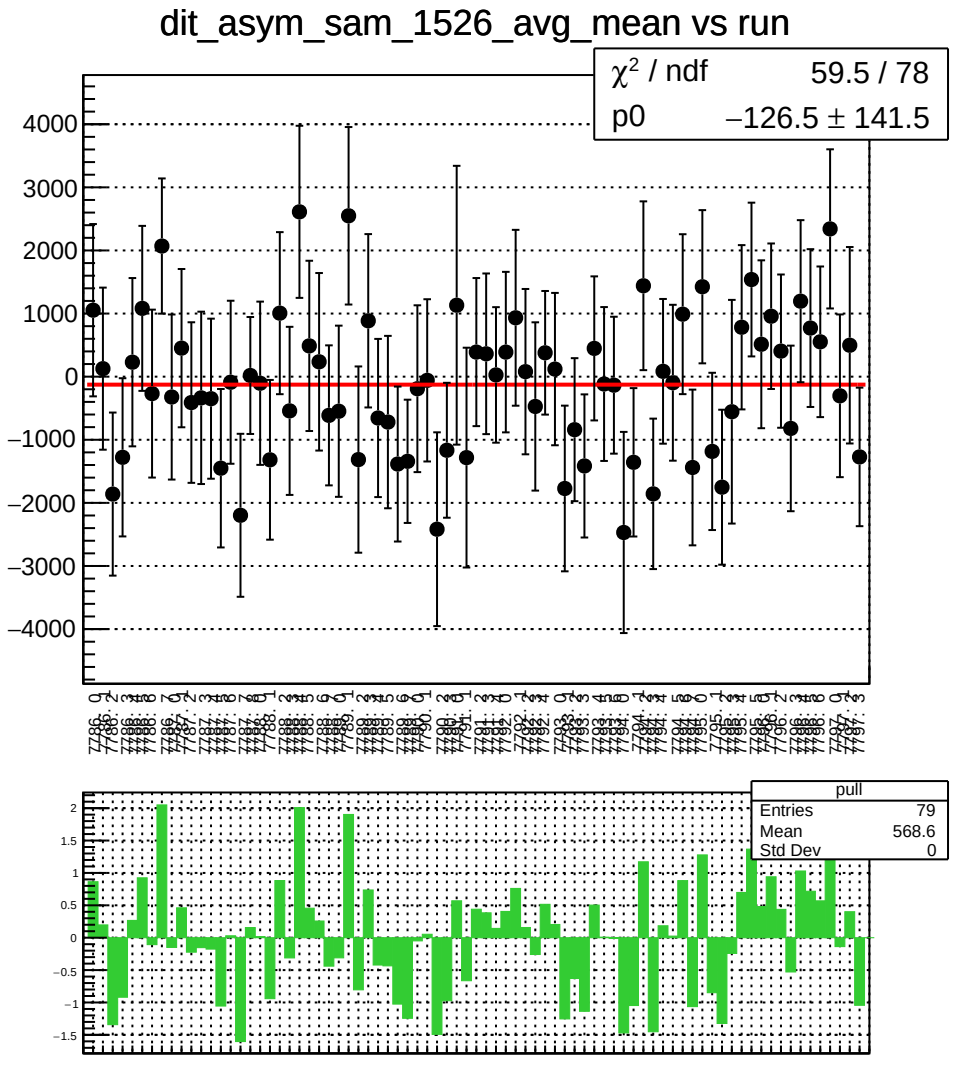

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 61.42 / 78
p0 −58.01 ± 132.5
pull
Entries 79
Mean 28.57
Std Dev 0
pull1D
Entries 79
Mean −0.004566
Std Dev 0.8817

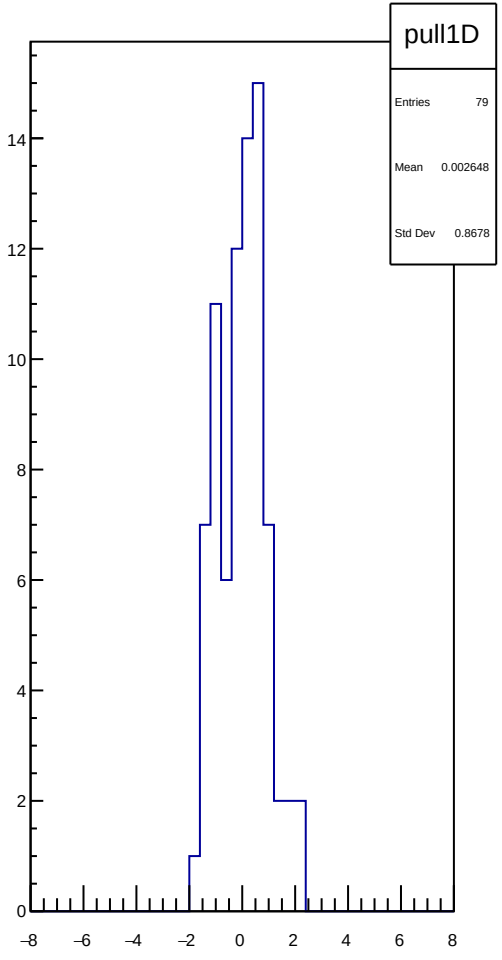

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.5e+04 / 78
p0 115.4 ± 0.09367
200
180
160
140
120
100

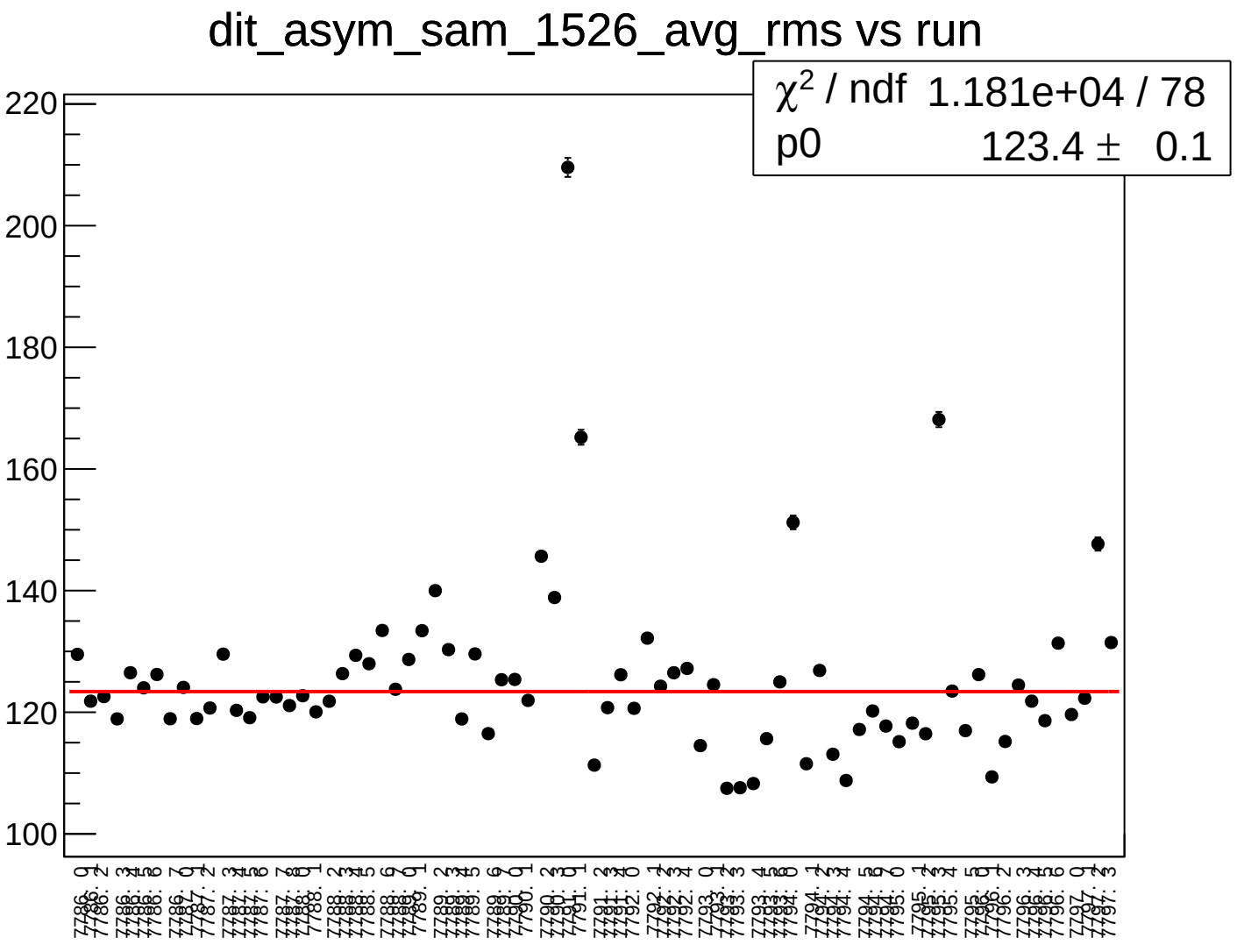

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 73 / 78
p0 −1586 ± 1048
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −74.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

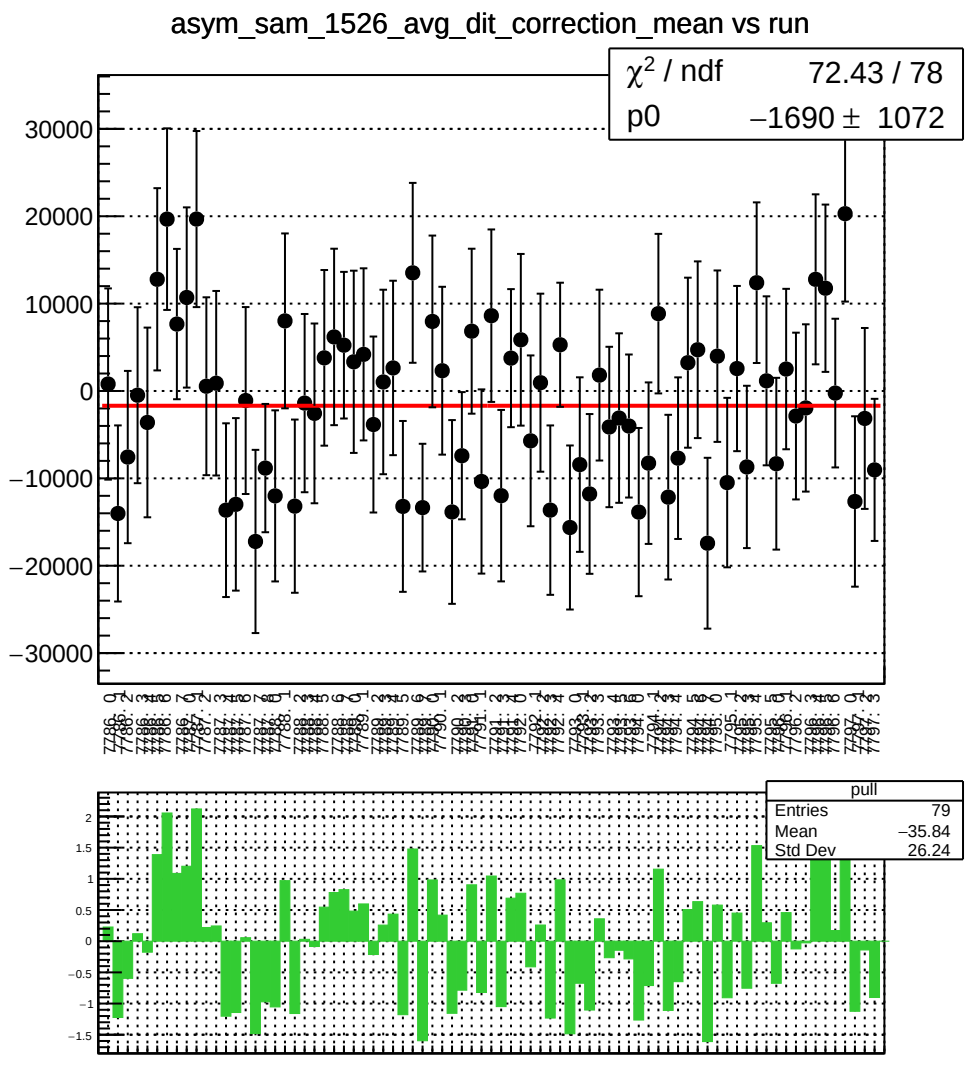

pull1D
Entries 79
Mean 0.008534
Std Dev 0.9612
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

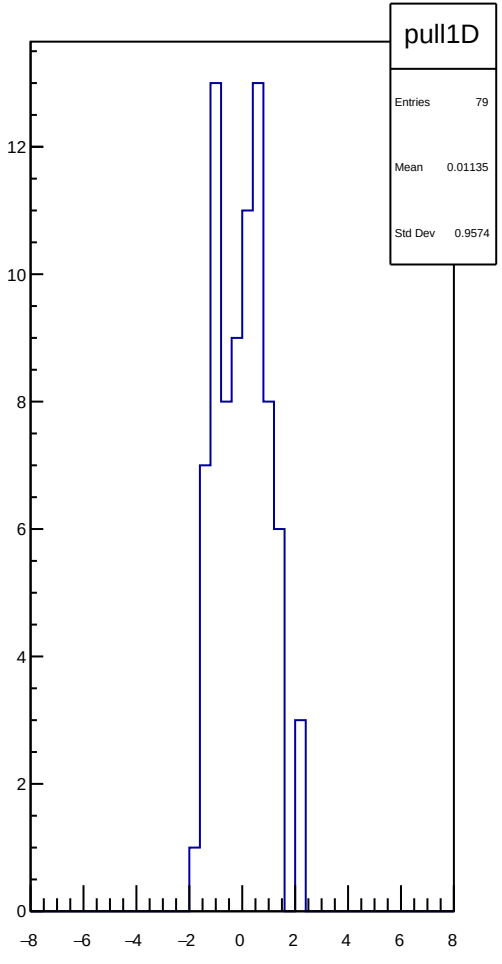

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 3932 / 78
p0 916.3 ± 0.7408
1050
1000
950
900
850
800

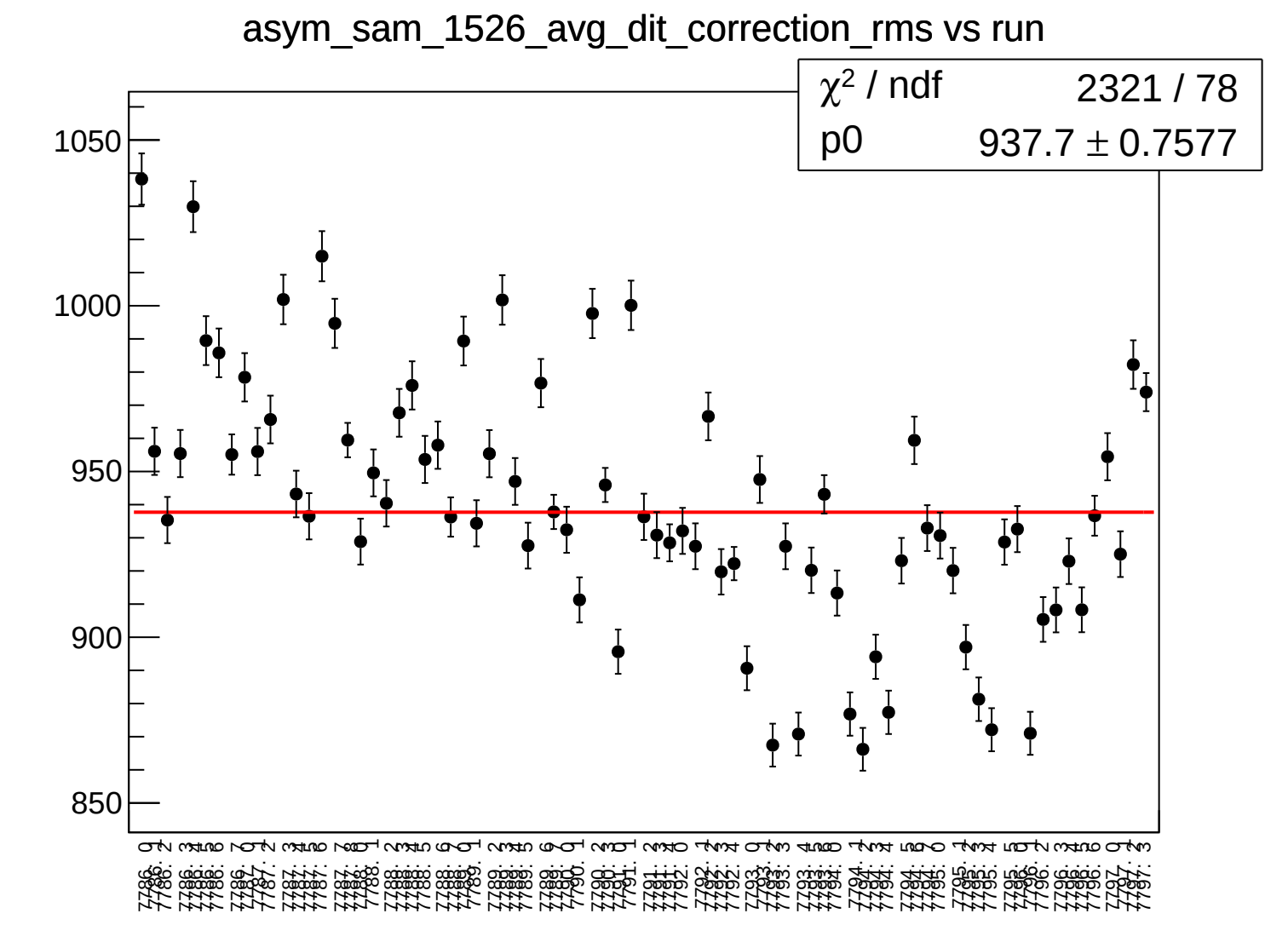

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 59.5 / 78
p0 −126.5 ± 141.5
pull
Entries 79
Mean 568.6
Std Dev 0

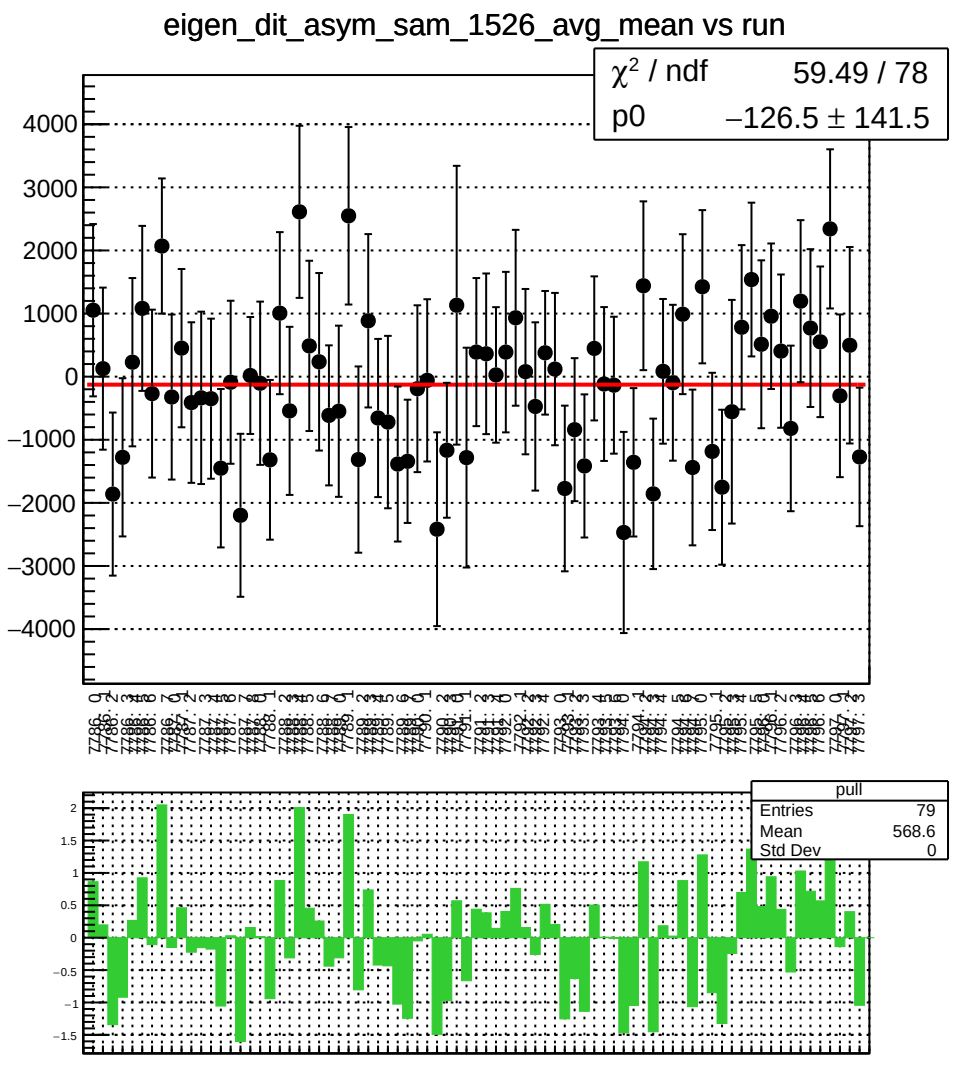

pull1D
Entries 79
Mean 0.002648
Std Dev 0.8678

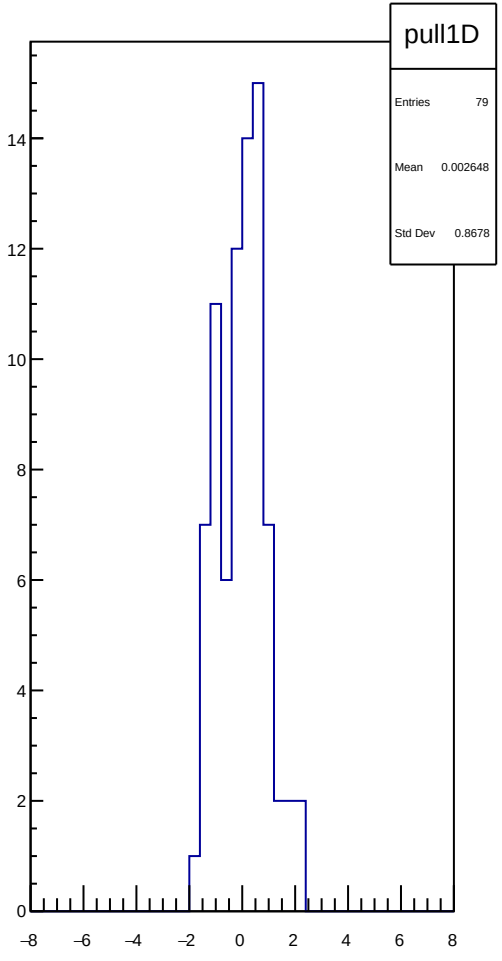

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.181e+04 / 78
p0 123.4 ± 0.1
220
200
180
160
140
120
100

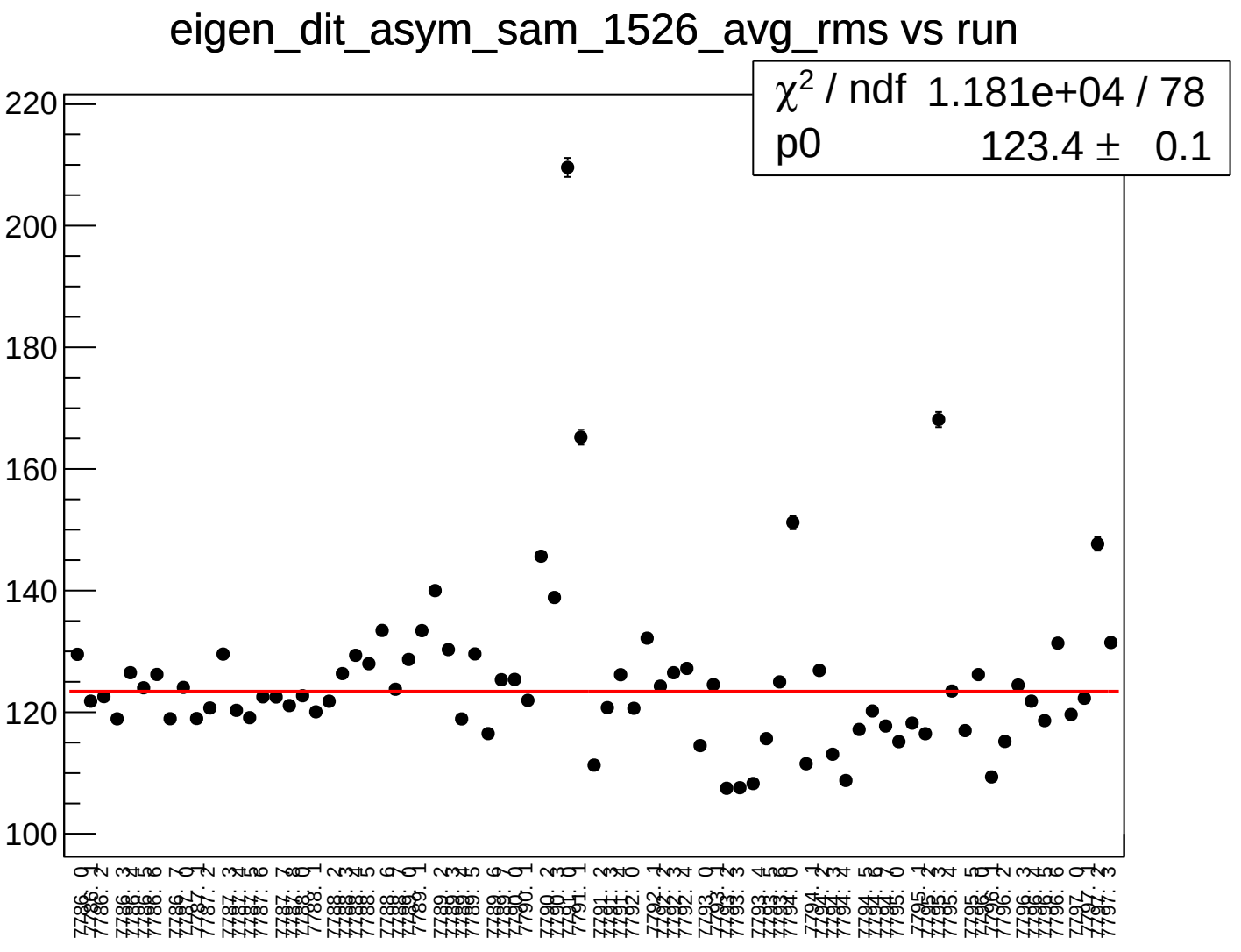

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 72.43 / 78
p0 −1690 ± 1072
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −35.84
Std Dev 26.24
2
1.5
1
0.5
0
−0.5
−1
−1.5

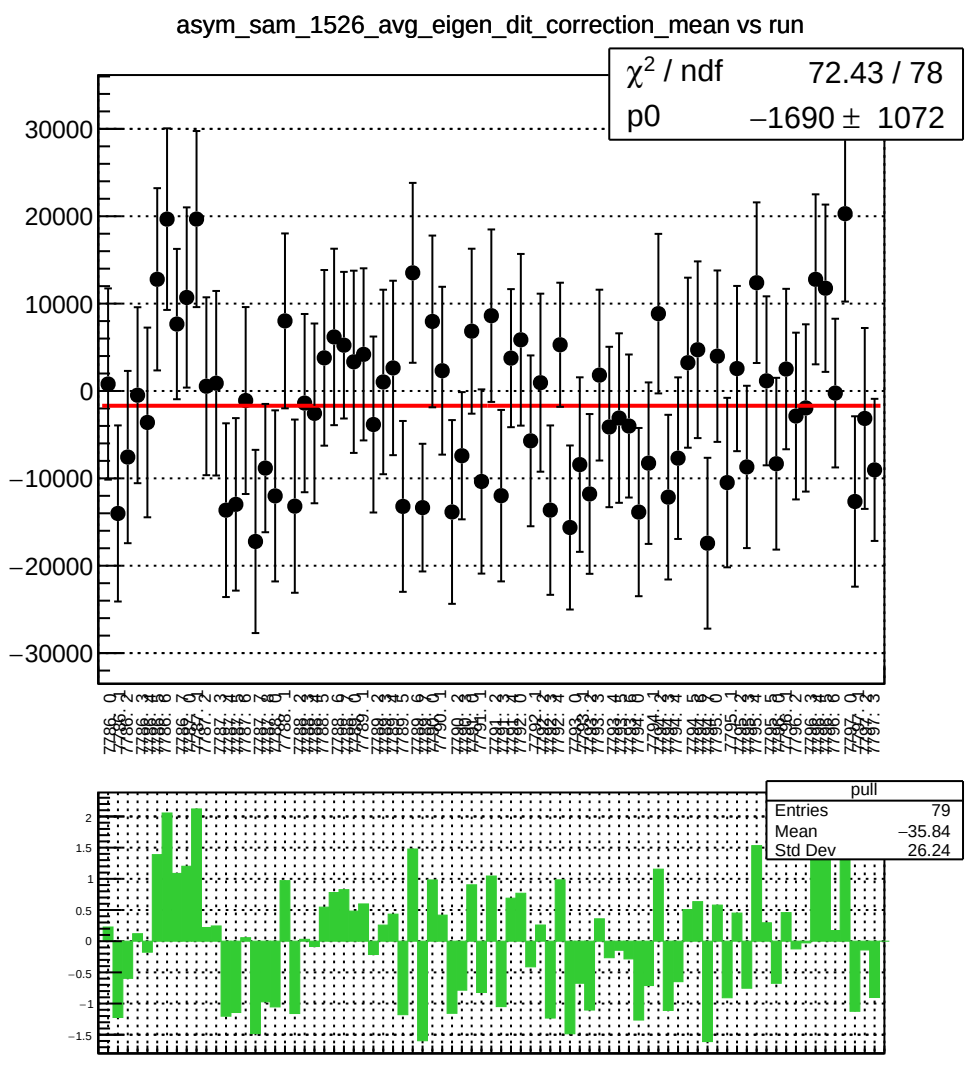

pull1D
Entries 79
Mean 0.01135
Std Dev 0.9574
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

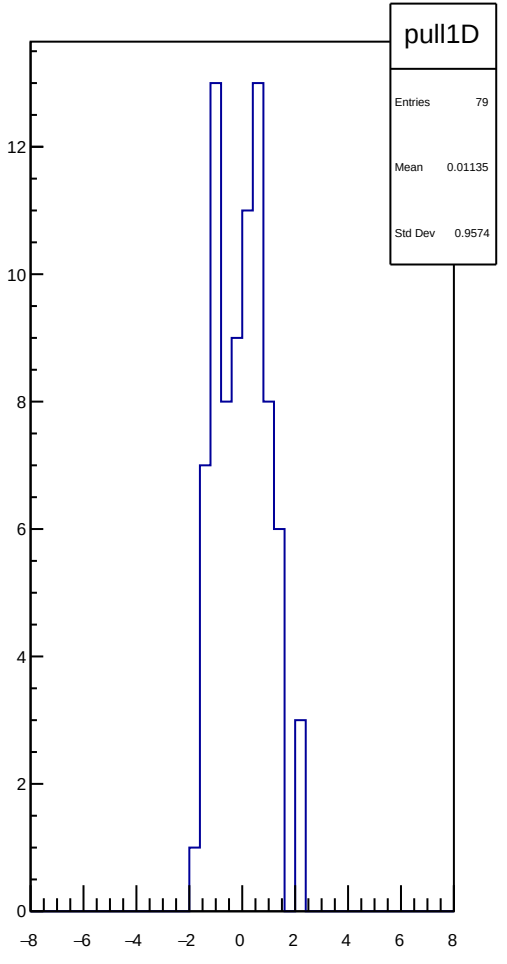

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2321 / 78
p0 937.7 ± 0.7577
1050
1000
950
900
850

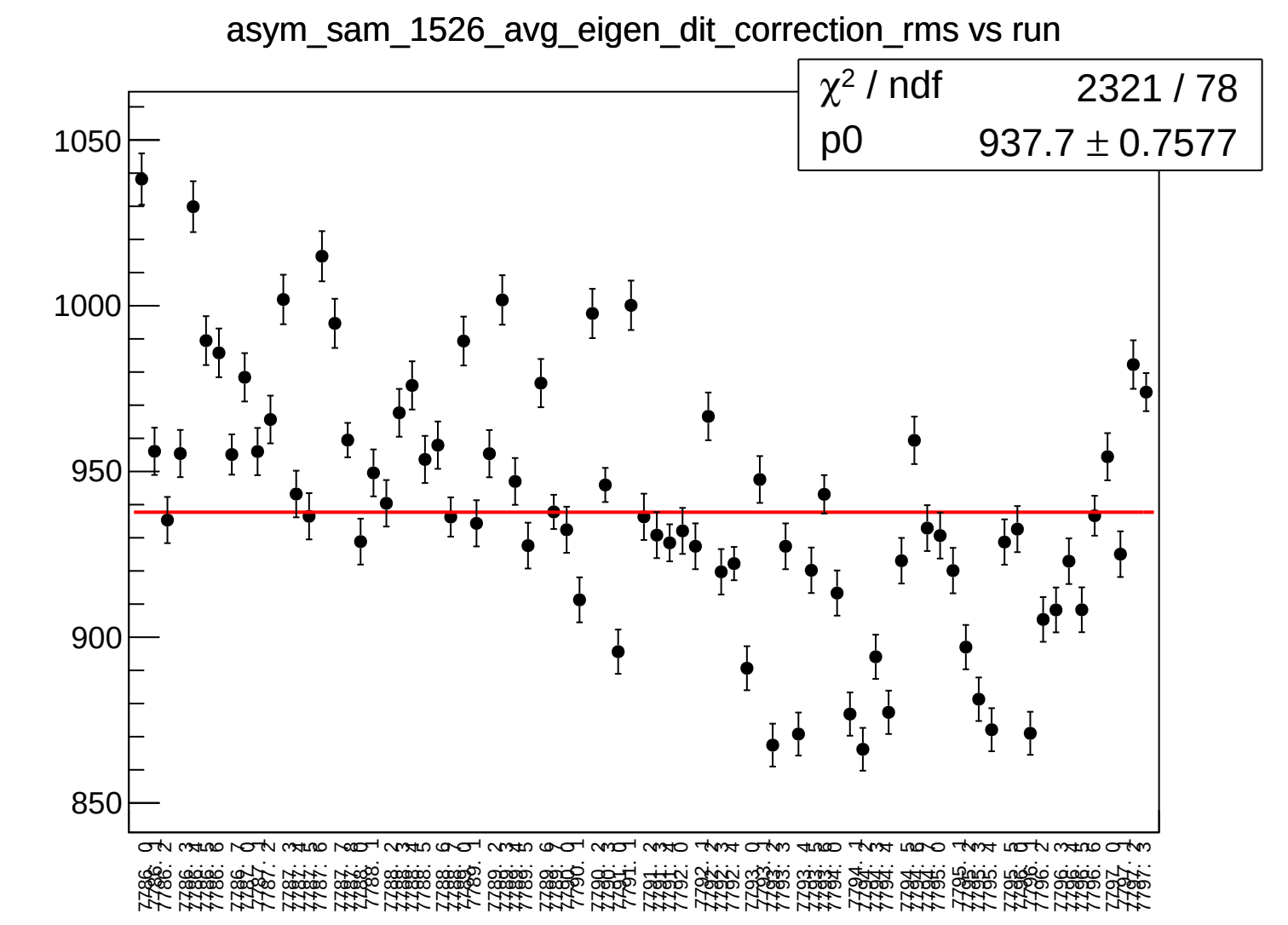

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 59.49 / 78
p0 −126.5 ± 141.5
pull
Entries 79
Mean 568.6
Std Dev 0

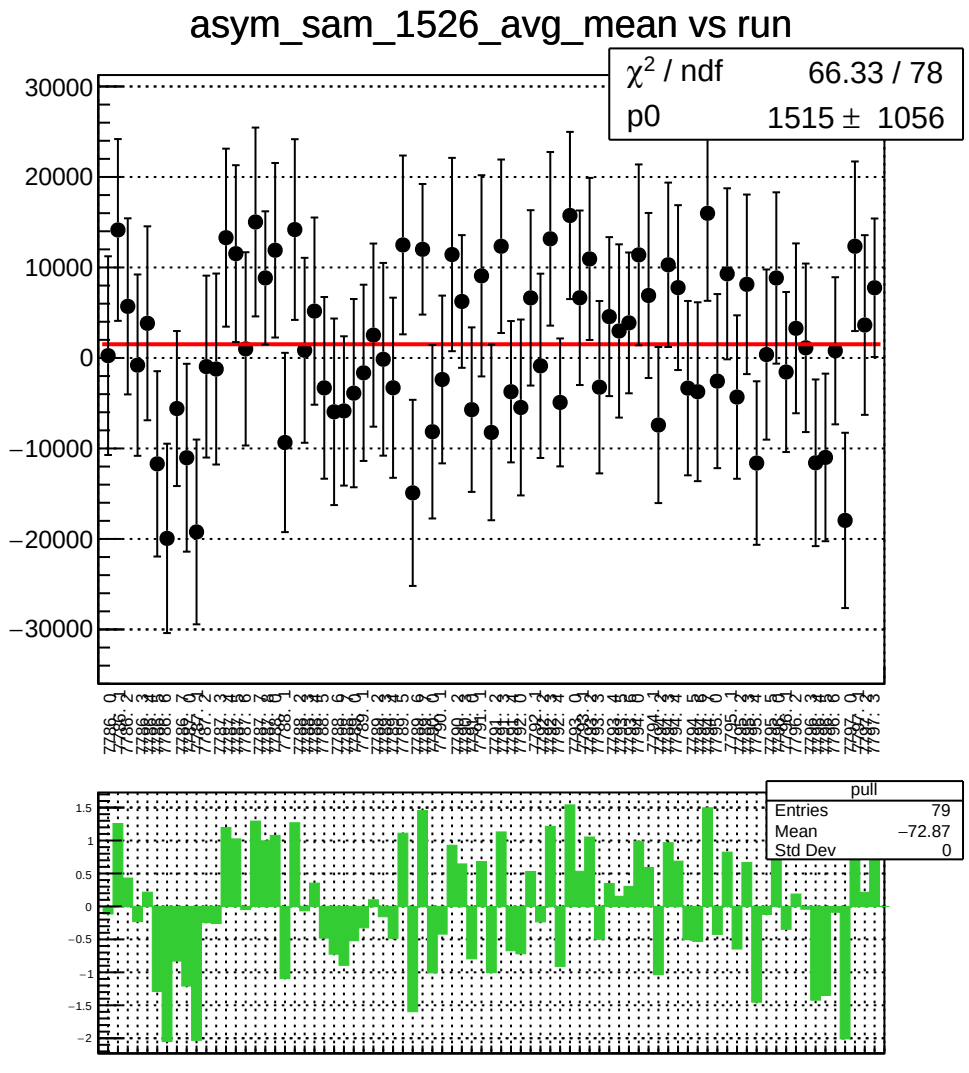

pull1D
Entries 79
Mean 0.002648
Std Dev 0.8678

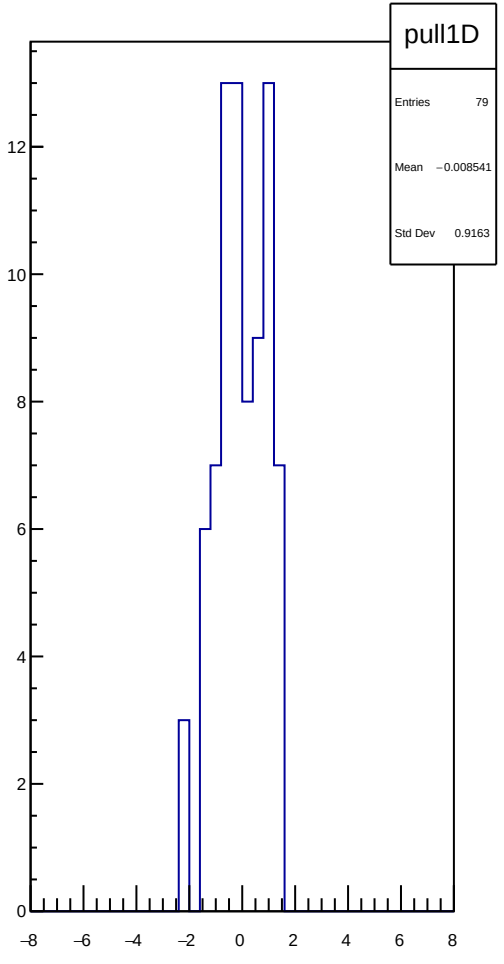

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.181e+04 / 78
p0 123.4 ± 0.1
220
200
180
160
140
120
100

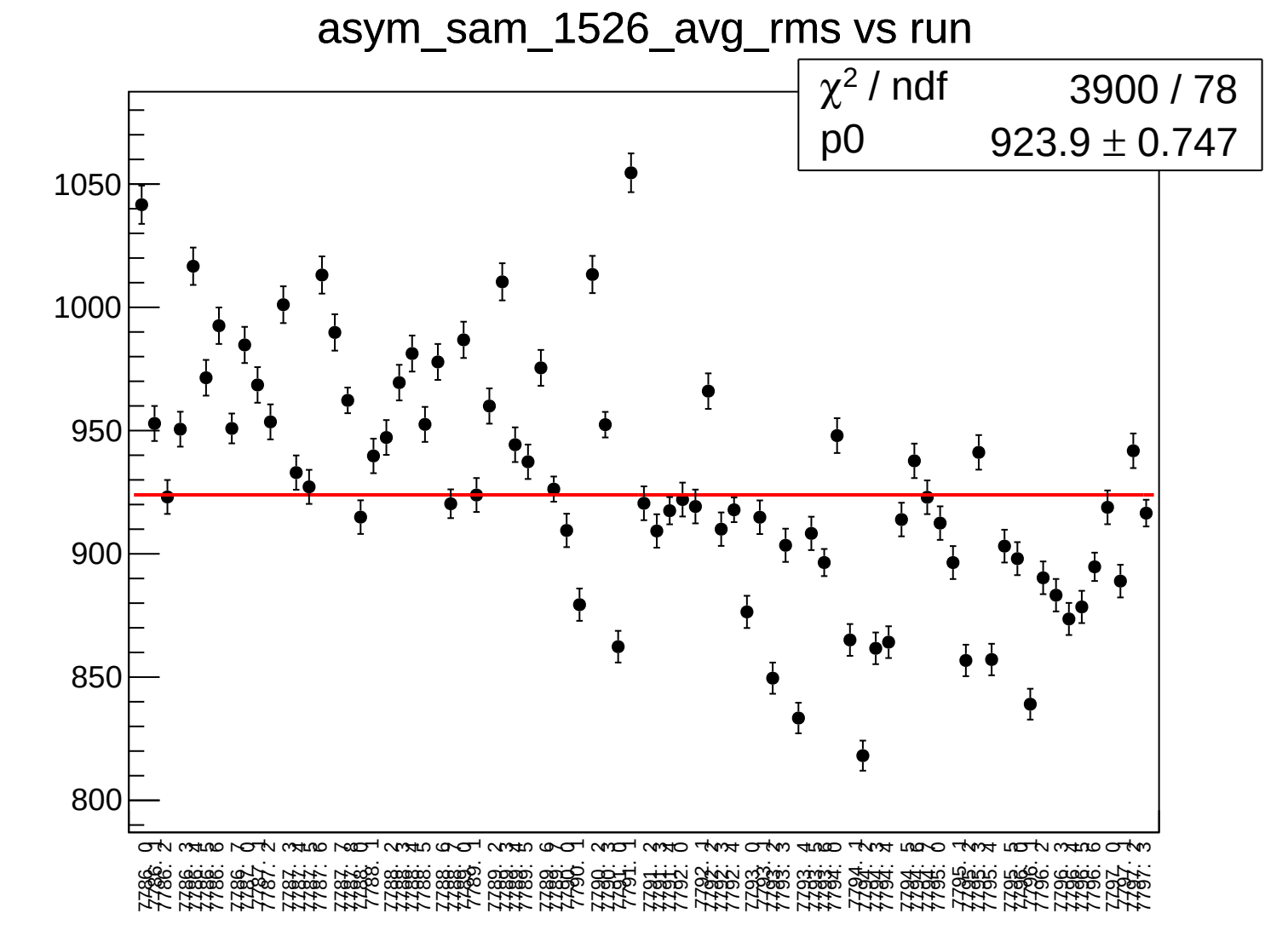

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.43 / 78
p0 −1690 ± 1072
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −35.84
Std Dev 26.24
2
1.5
1
0.5
0
−0.5
−1
−1.5

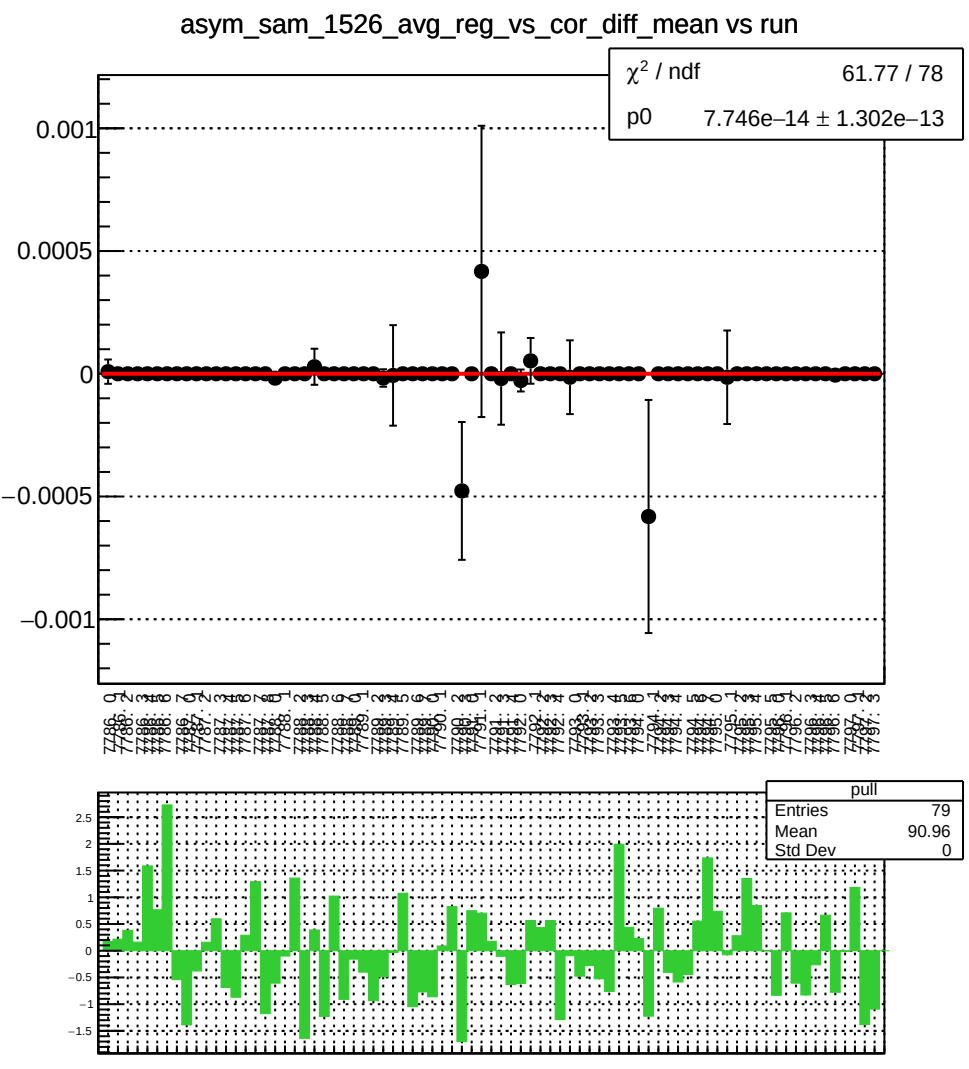

pull1D
Entries 79
Mean 0.01135
Std Dev 0.9574
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

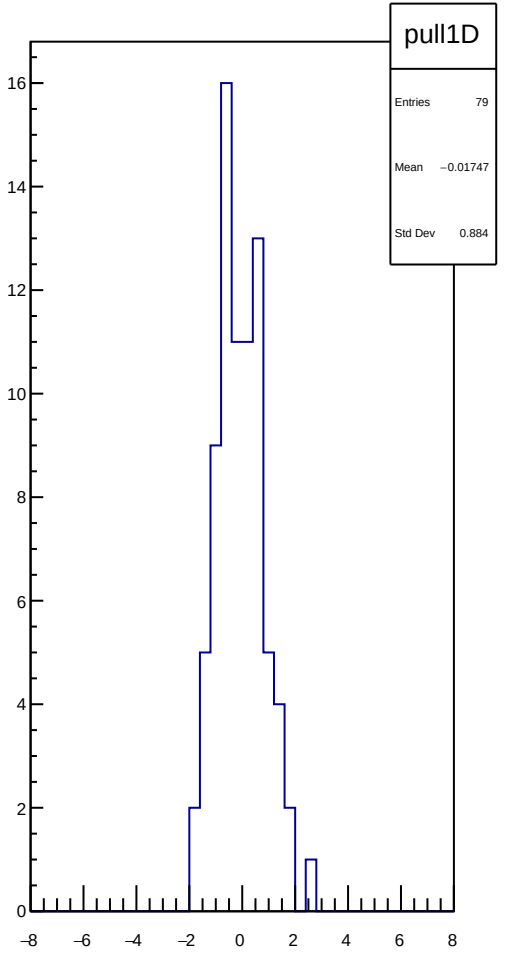

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2321 / 78
p0 937.7 ± 0.7577
1050
1000
950
900
850

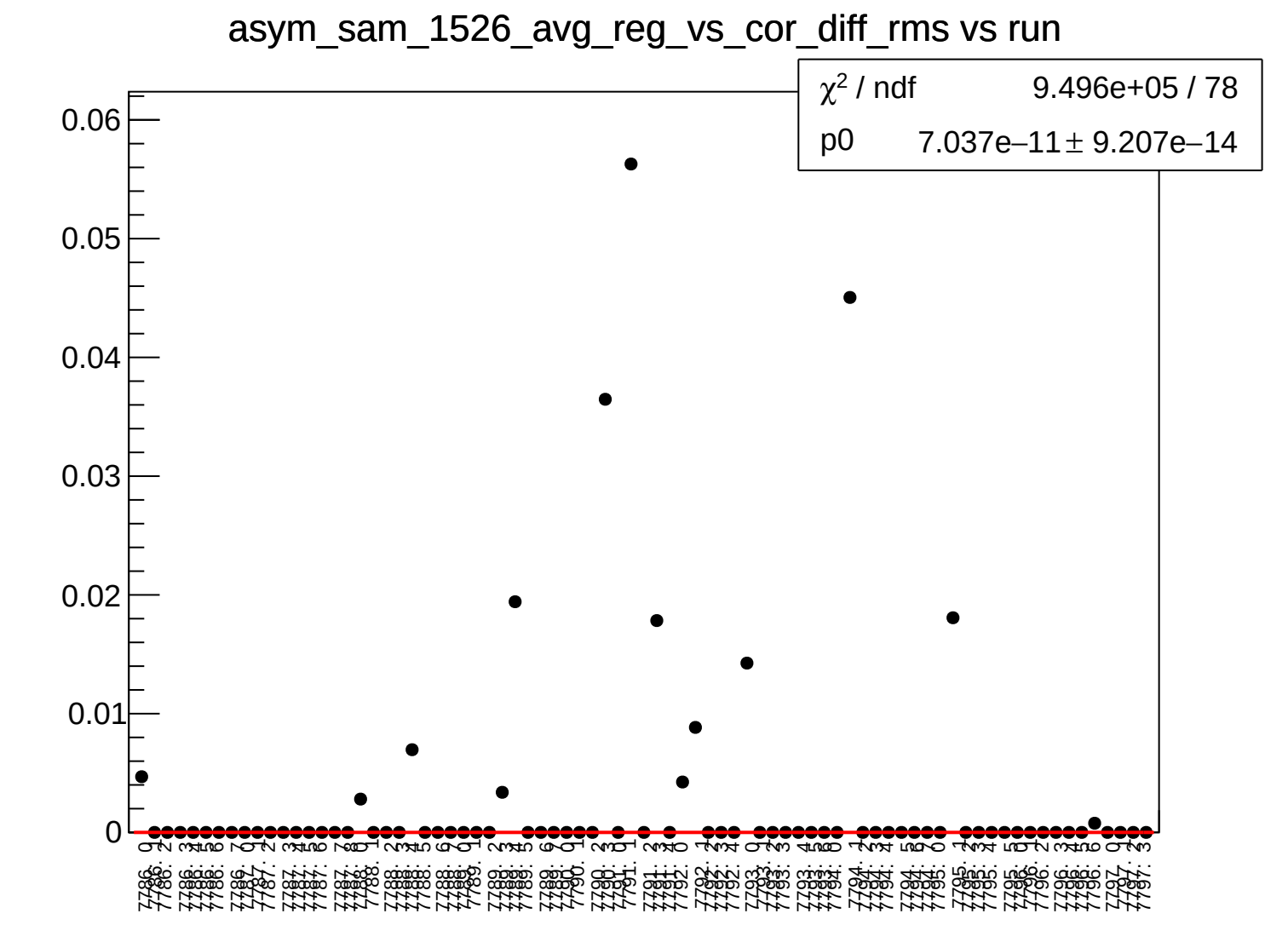

asym_sam_1526_avg_mean vs run
χ² / ndf 66.33 / 78
p0 1515 ± 1056
pull
Entries 79
Mean −72.87
Std Dev 0

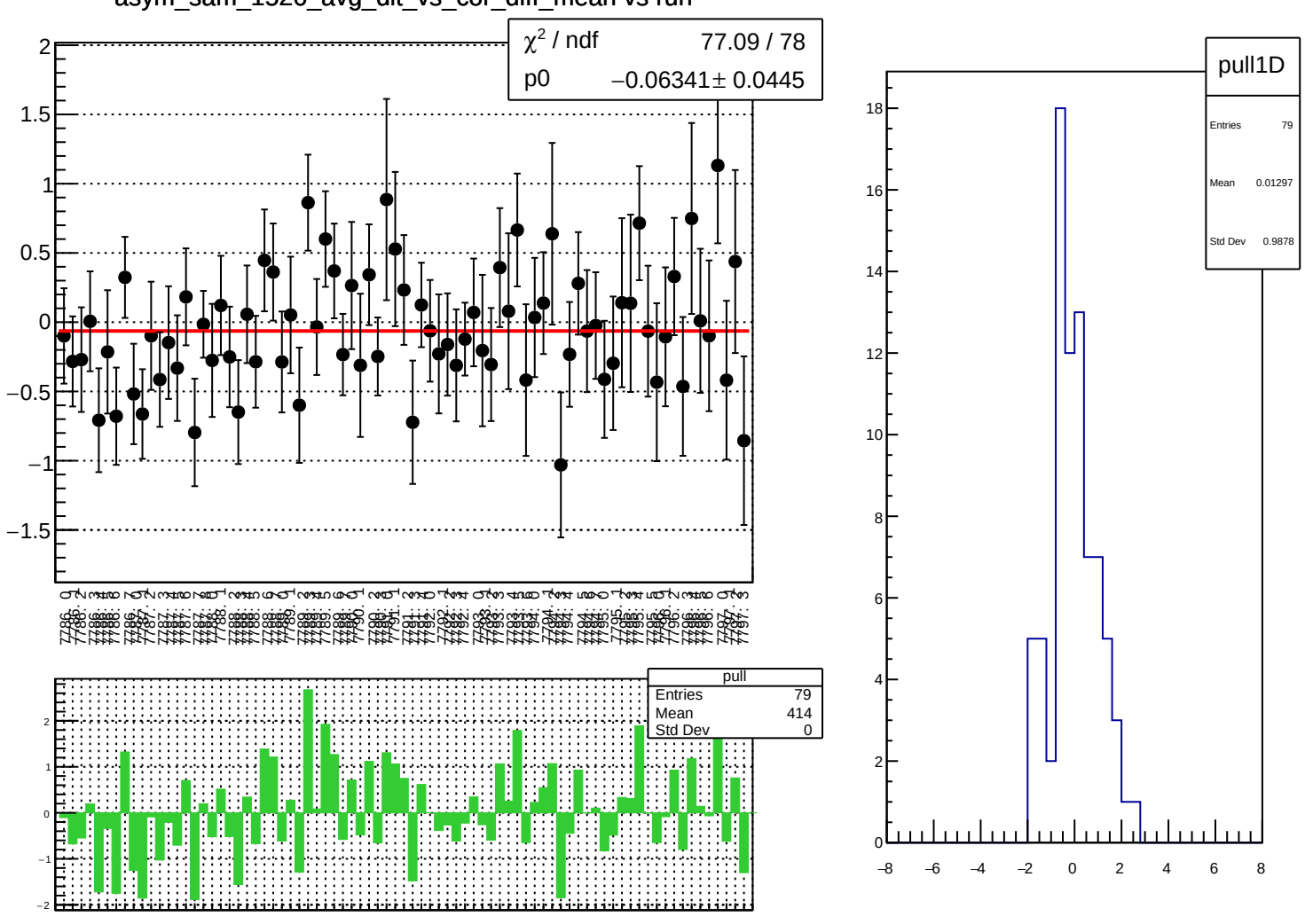

pull1D
Entries 79
Mean −0.008541
Std Dev 0.9163

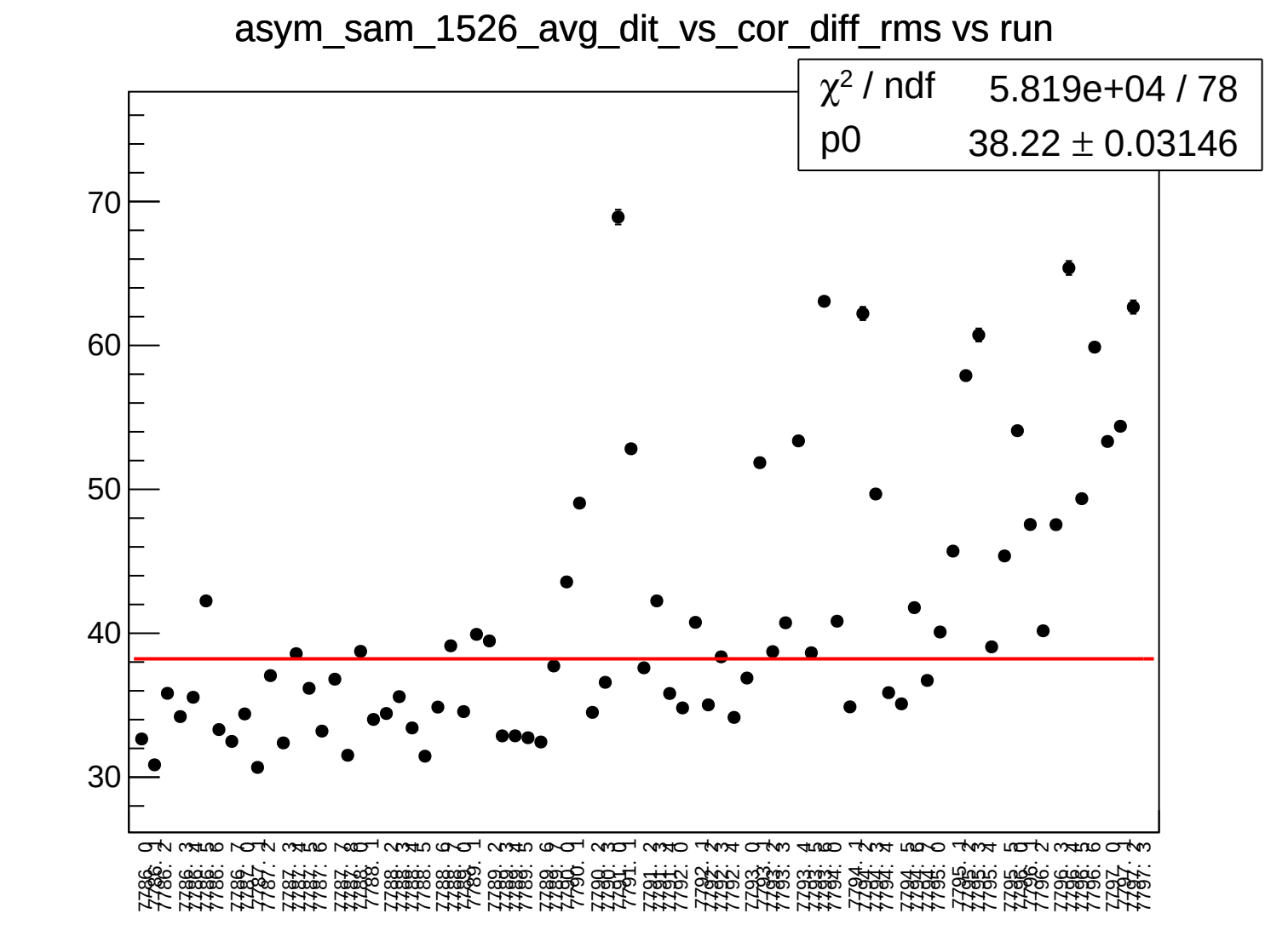

asym_sam_1526_avg_rms vs run
χ² / ndf 3900 / 78
p0 923.9 ± 0.747
1050
1000
950
900
850
800

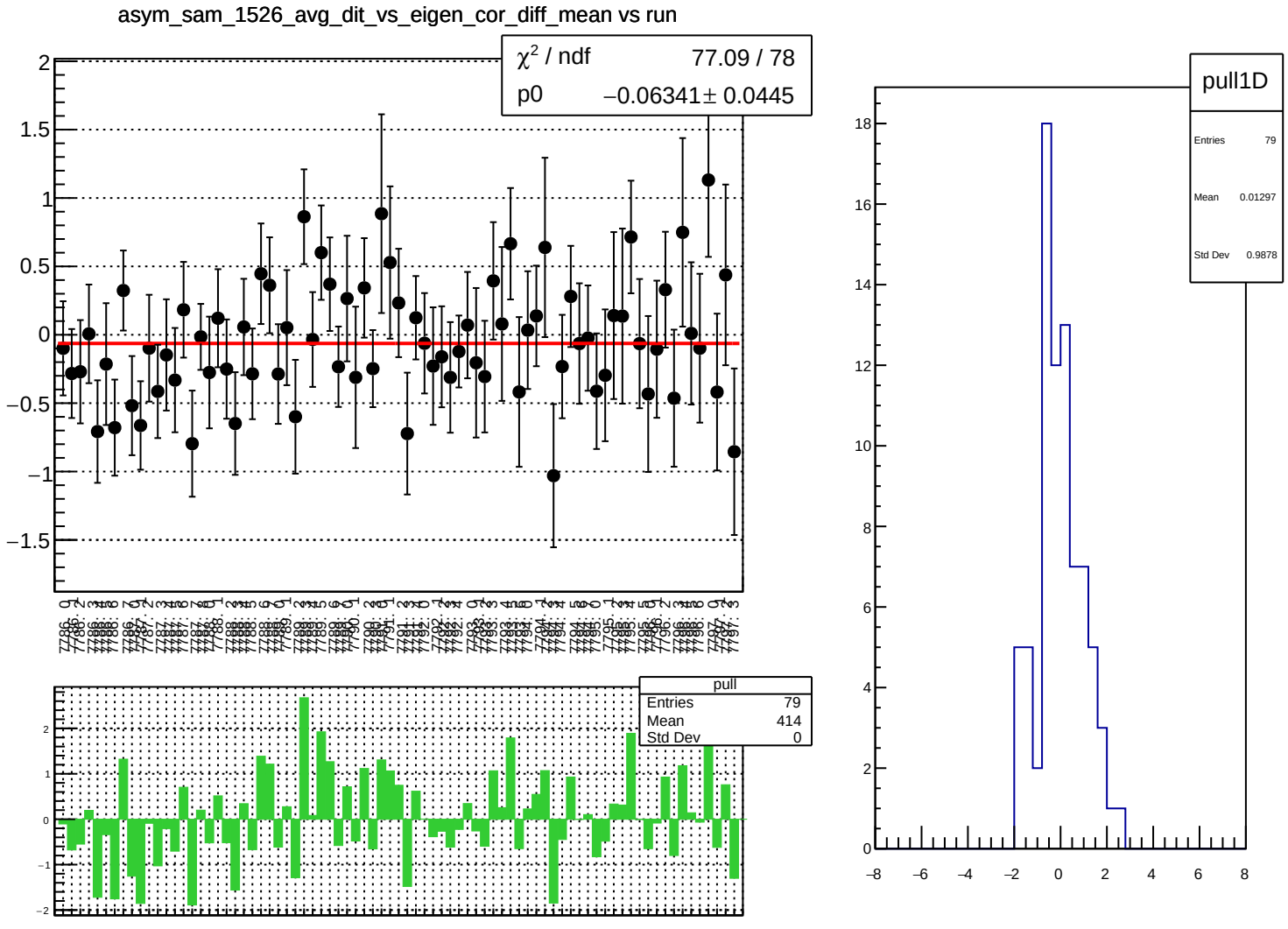

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 61.77 / 78
p0 7.746e−14 ± 1.302e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 79
Mean 90.96
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

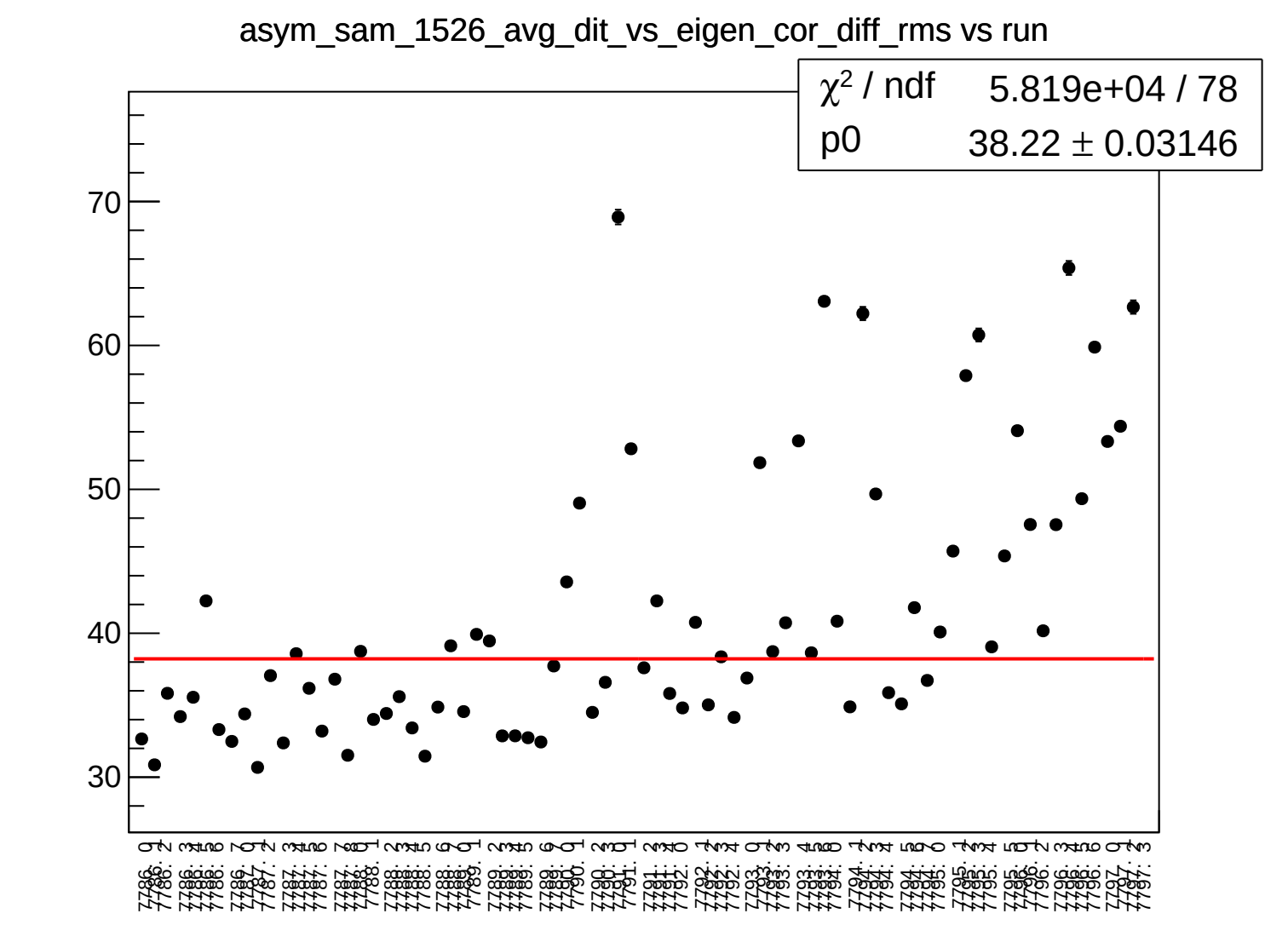

pull1D
Entries 79
Mean −0.01747
Std Dev 0.884
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

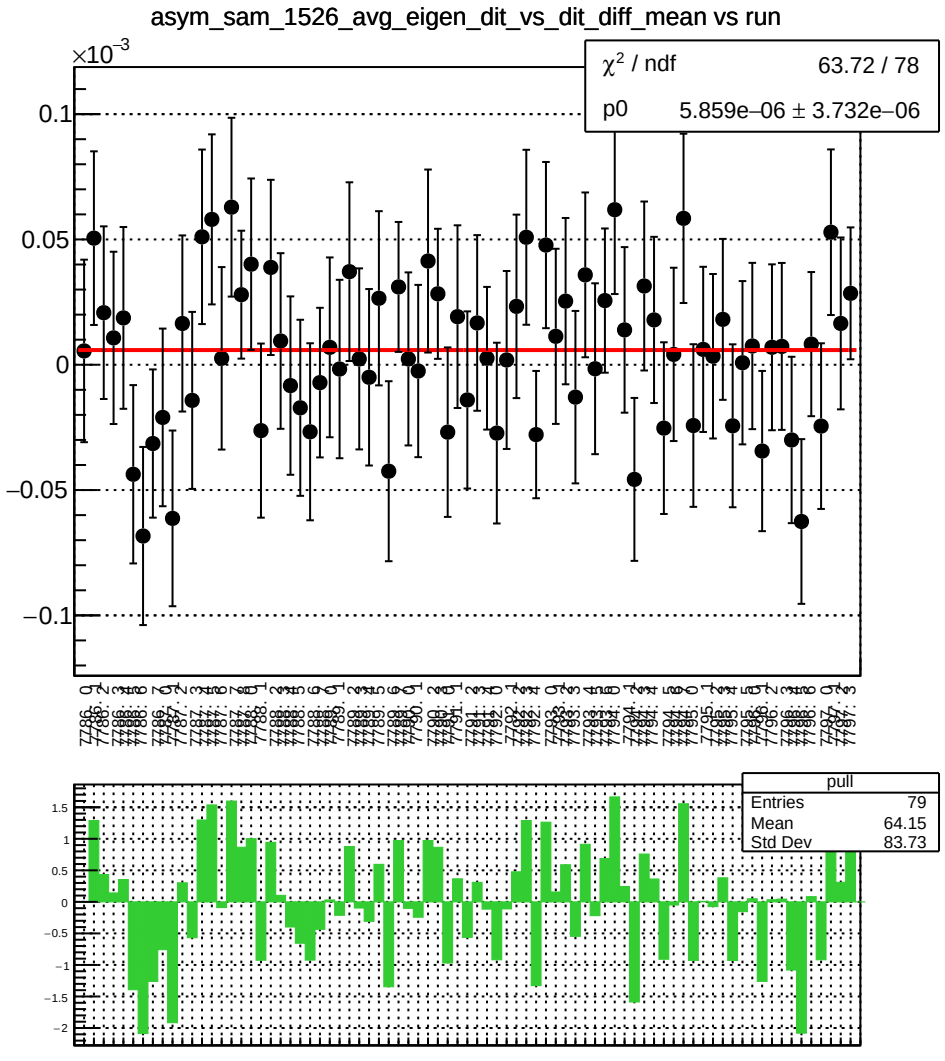

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.496e+05 / 78
p0 7.037e−11 ± 9.207e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

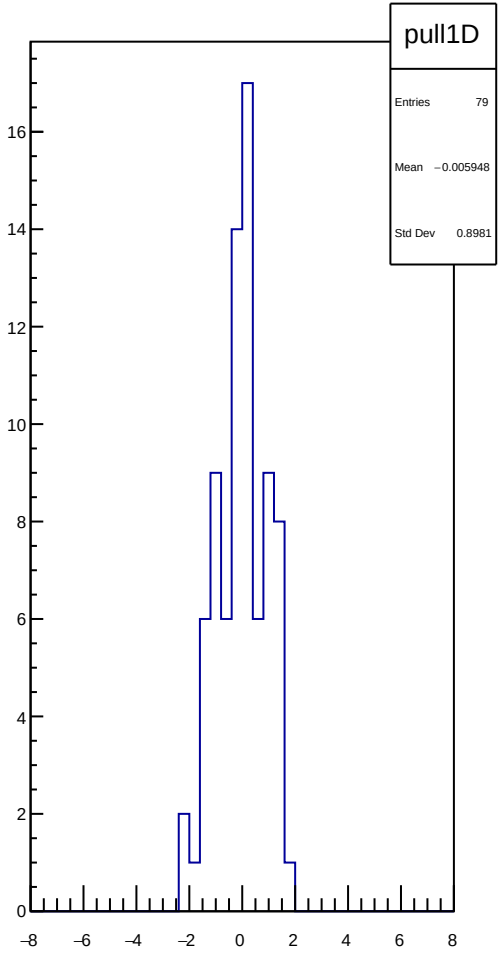

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.09 / 78
p0 −0.06341 ± 0.0445
pull
Entries 79
Mean 414
Std Dev 0
pull1D
Entries 79
Mean 0.01297
Std Dev 0.9878

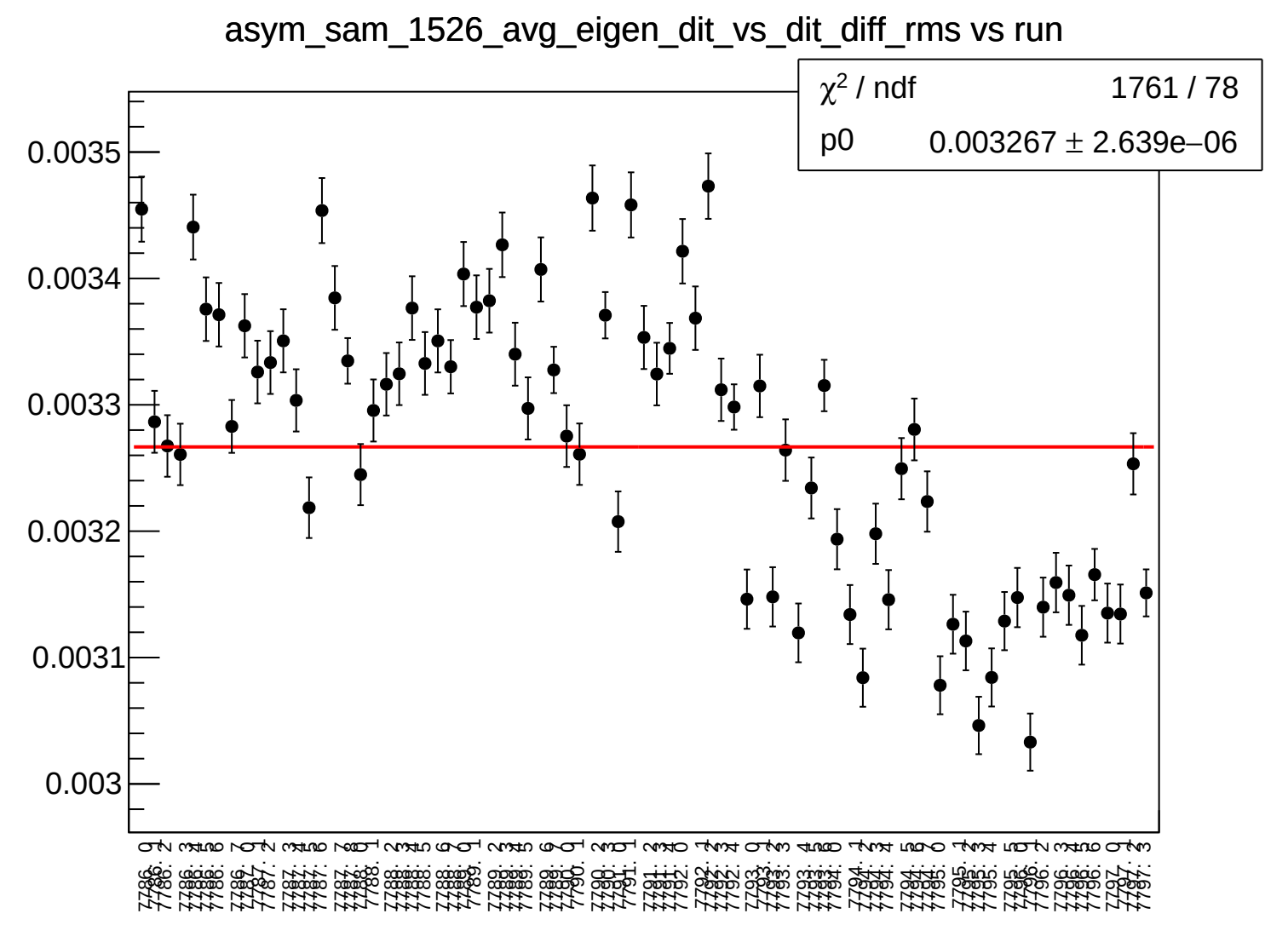

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.819e+04 / 78
p0 38.22 ± 0.03146
70
60
50
40
30

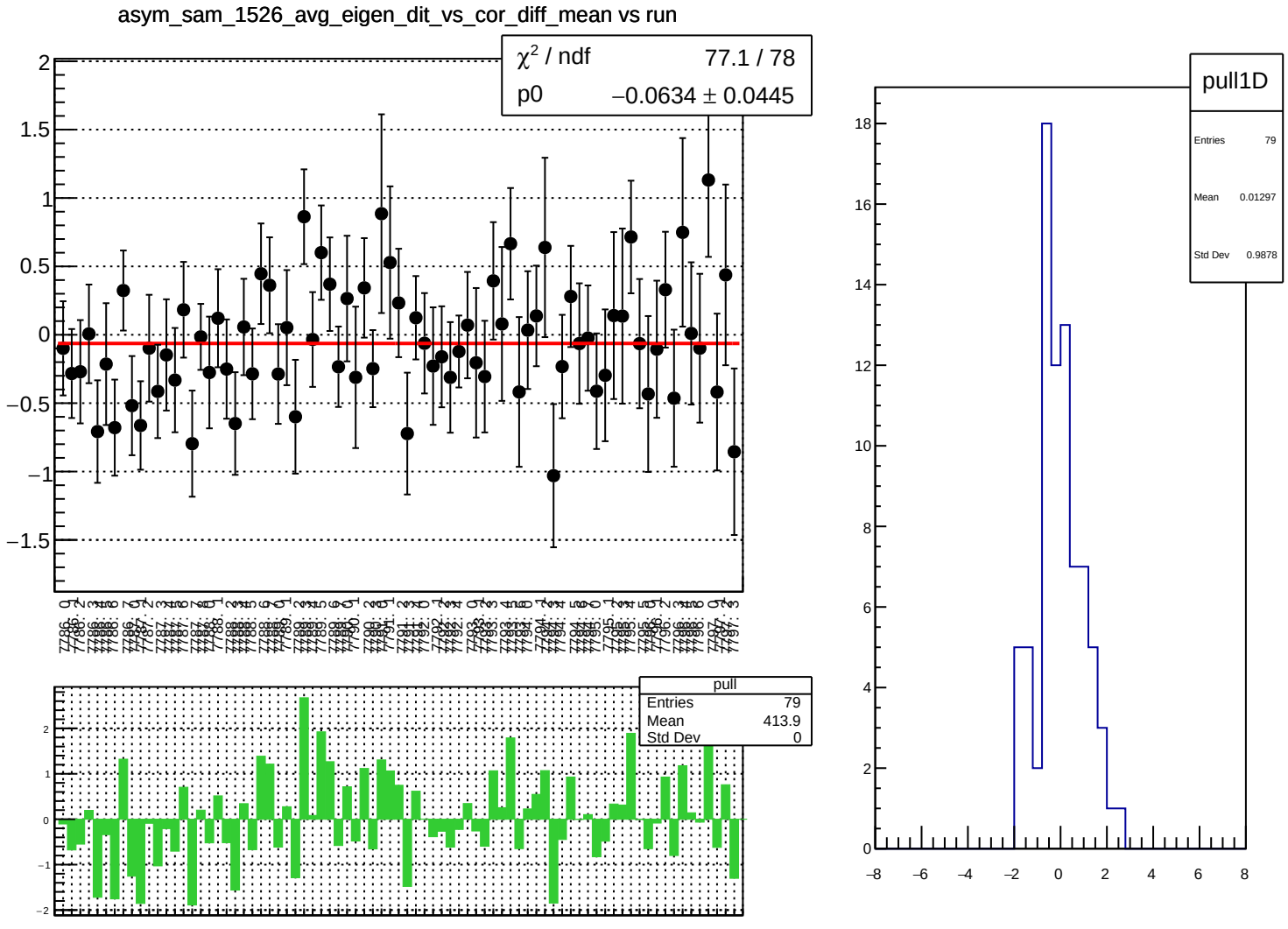

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.09 / 78
p0 −0.06341 ± 0.0445
pull
Entries 79
Mean 414
Std Dev 0
pull1D
Entries 79
Mean 0.01297
Std Dev 0.9878

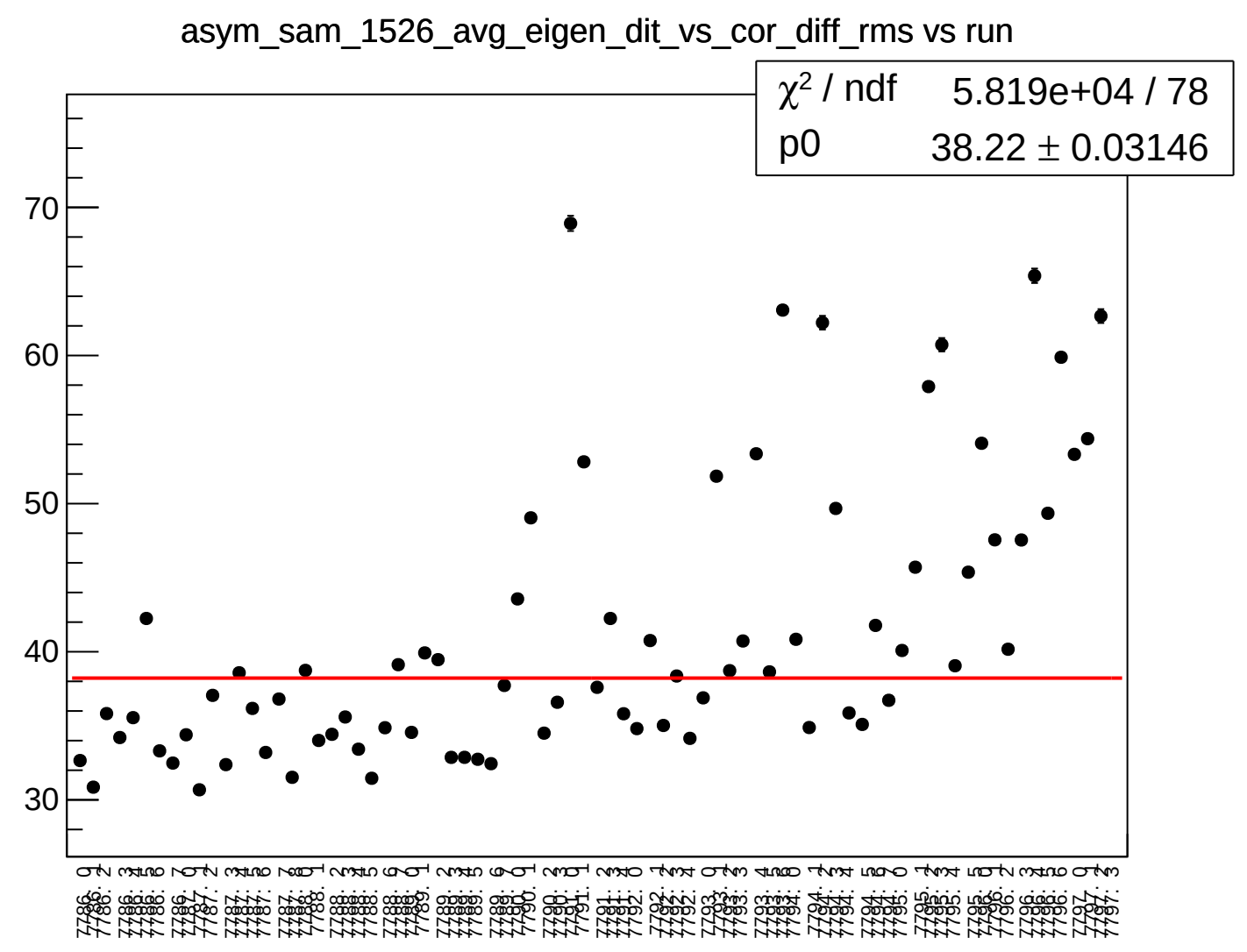

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.819e+04 / 78
p0 38.22 ± 0.03146
70
60
50
40
30

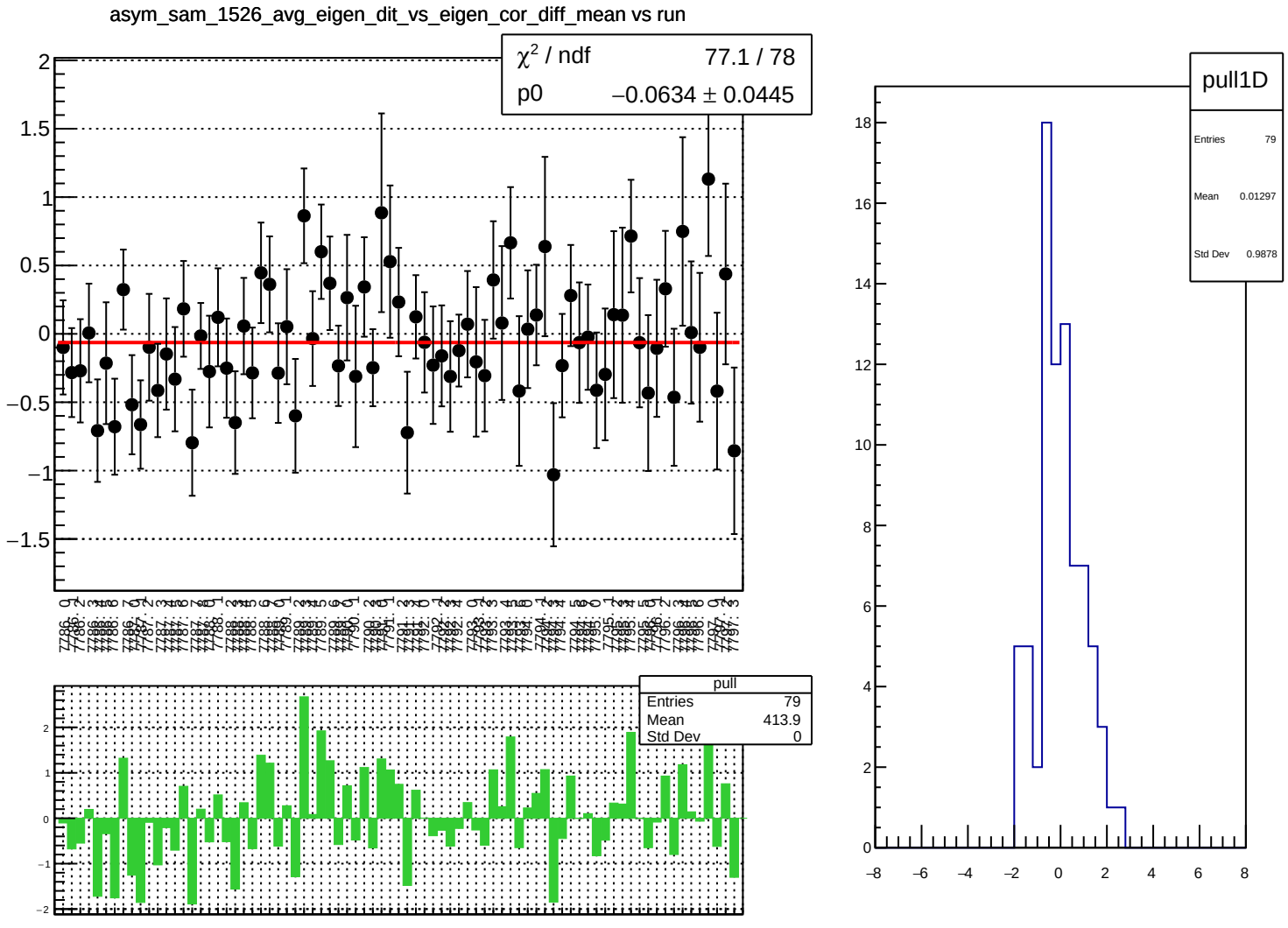

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.72 / 78
p0 5.859e−06 ± 3.732e−06
pull
Entries 79
Mean 64.15
Std Dev 83.73

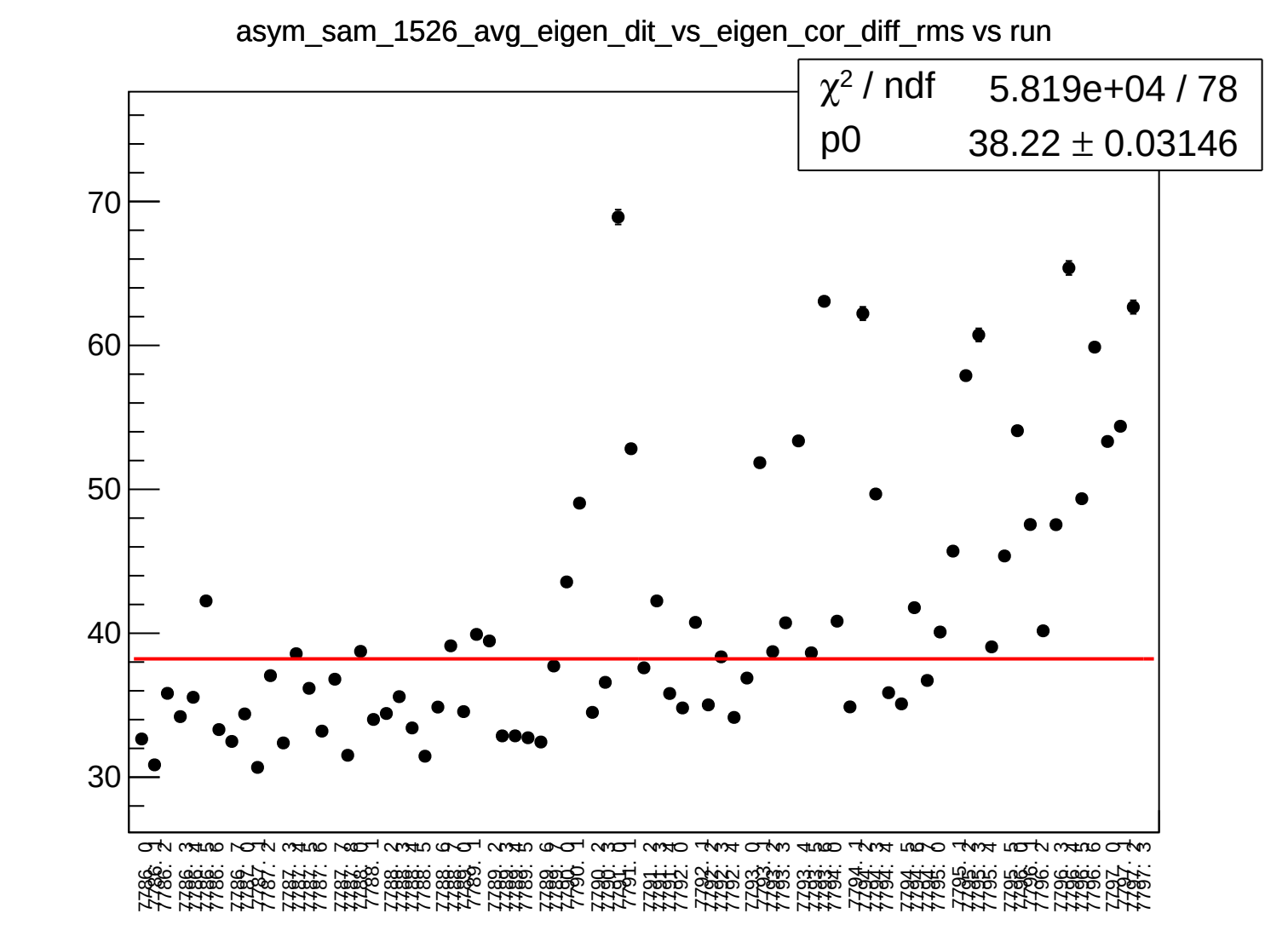

pull1D
Entries 79
Mean −0.005948
Std Dev 0.8981

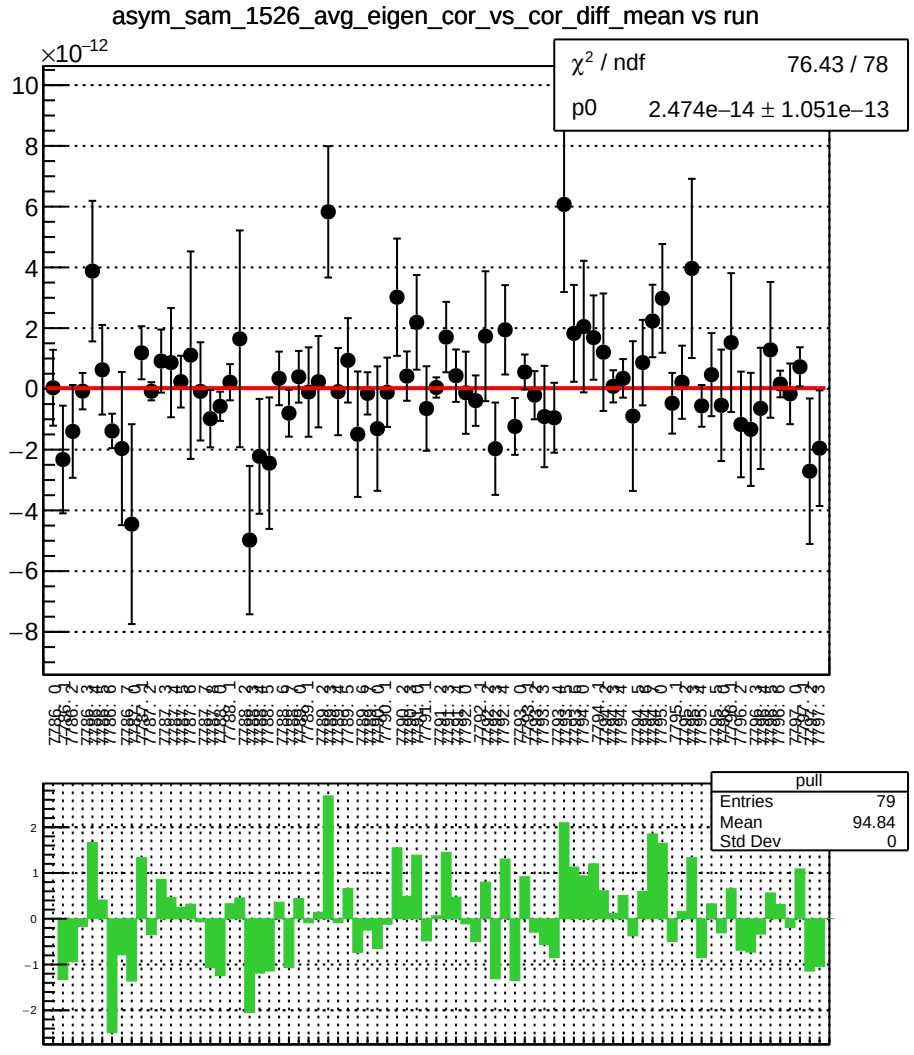

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1761 / 78
p0 0.003267 ± 2.639e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003

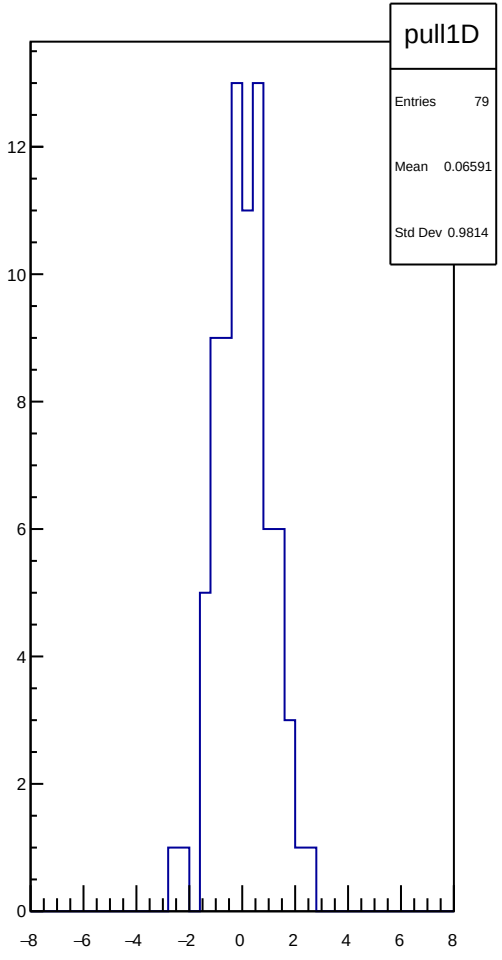

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.1 / 78
p0 −0.0634 ± 0.0445
pull
Entries 79
Mean 413.9
Std Dev 0
pull1D
Entries 79
Mean 0.01297
Std Dev 0.9878

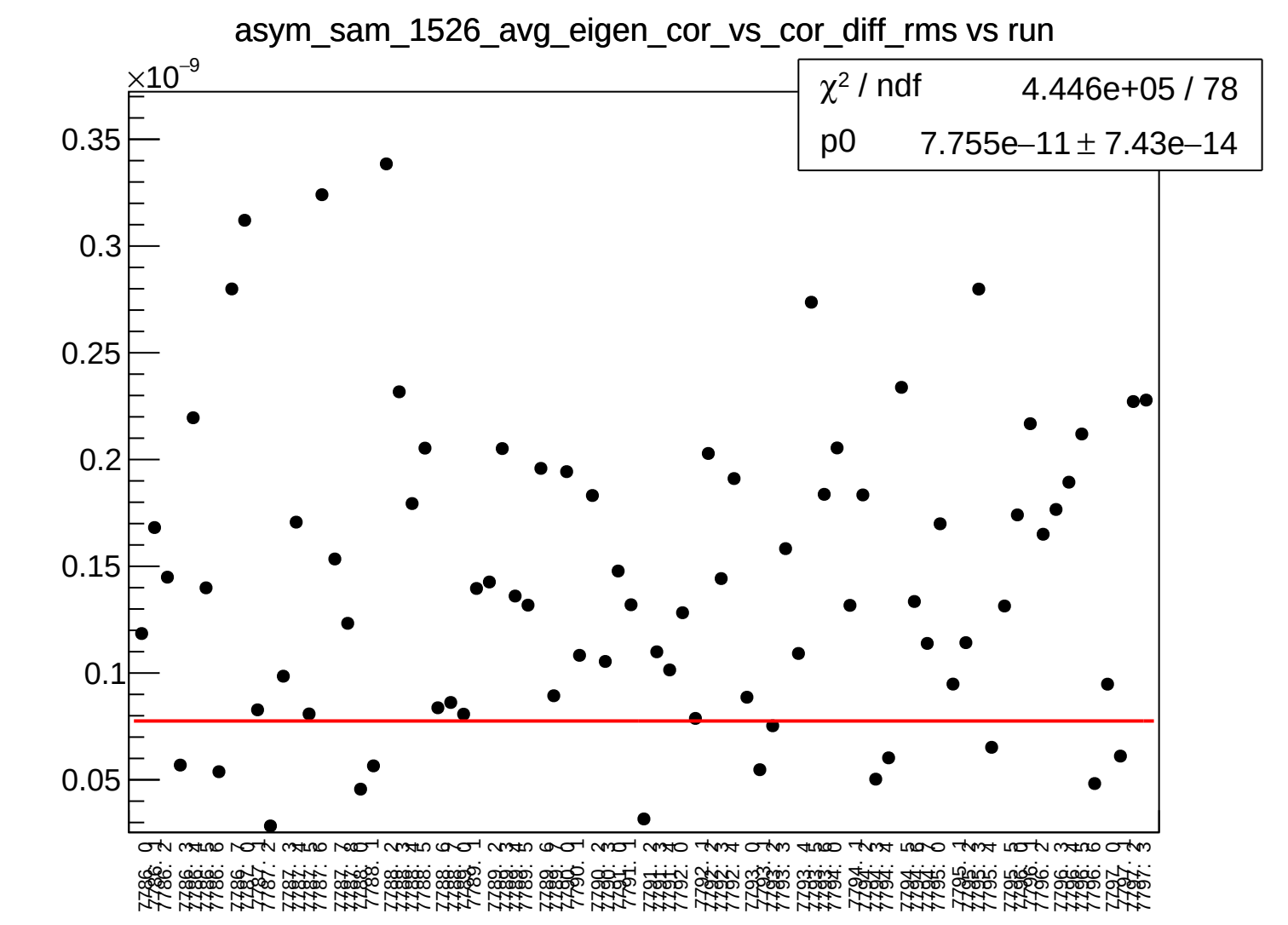

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.819e+04 / 78
p0 38.22 ± 0.03146
70
60
50
40
30

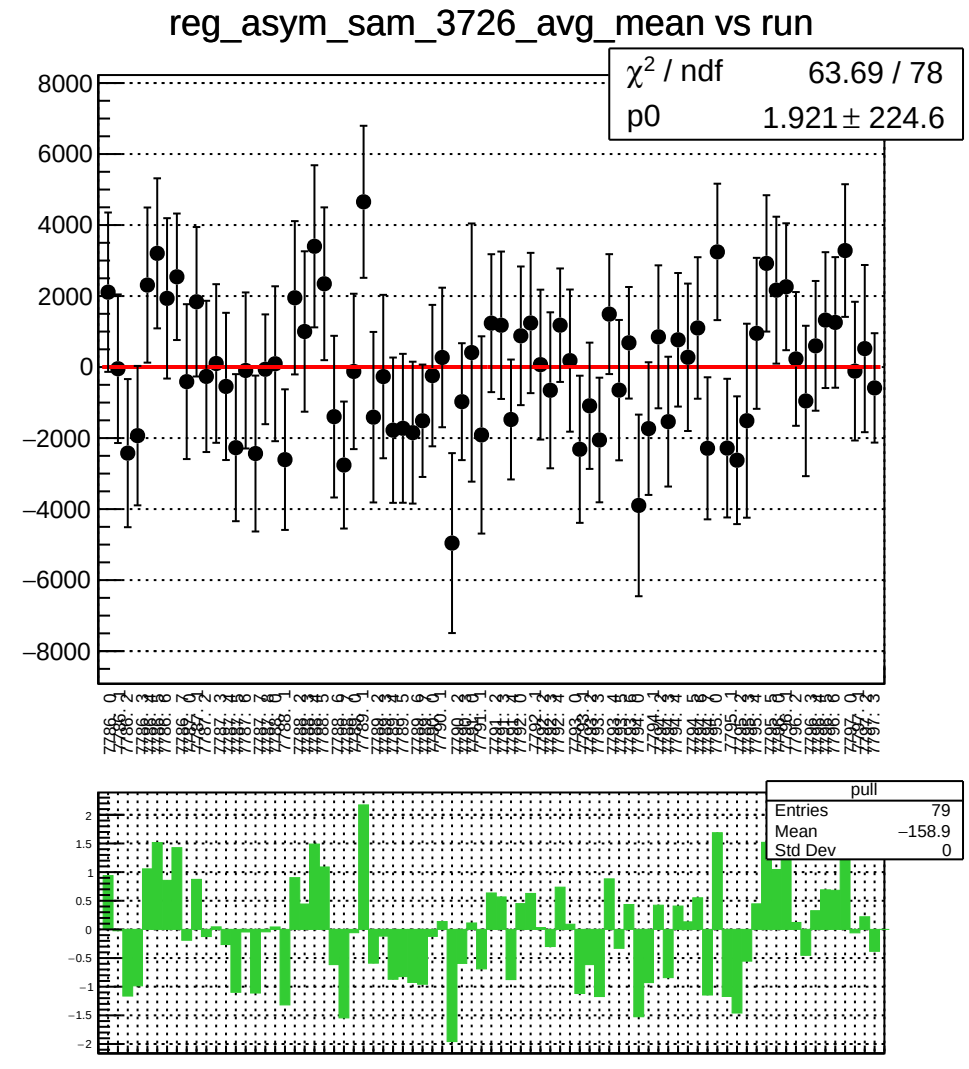

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.1 / 78
p0 −0.0634 ± 0.0445
pull
Entries 79
Mean 413.9
Std Dev 0
pull1D
Entries 79
Mean 0.01297
Std Dev 0.9878

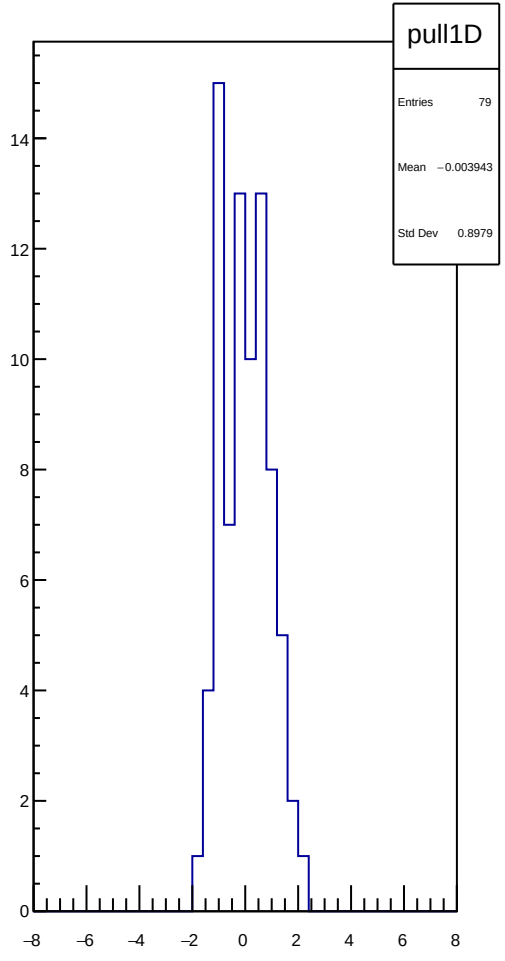

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.819e+04 / 78
p0 38.22 ± 0.03146
70
60
50
40
30

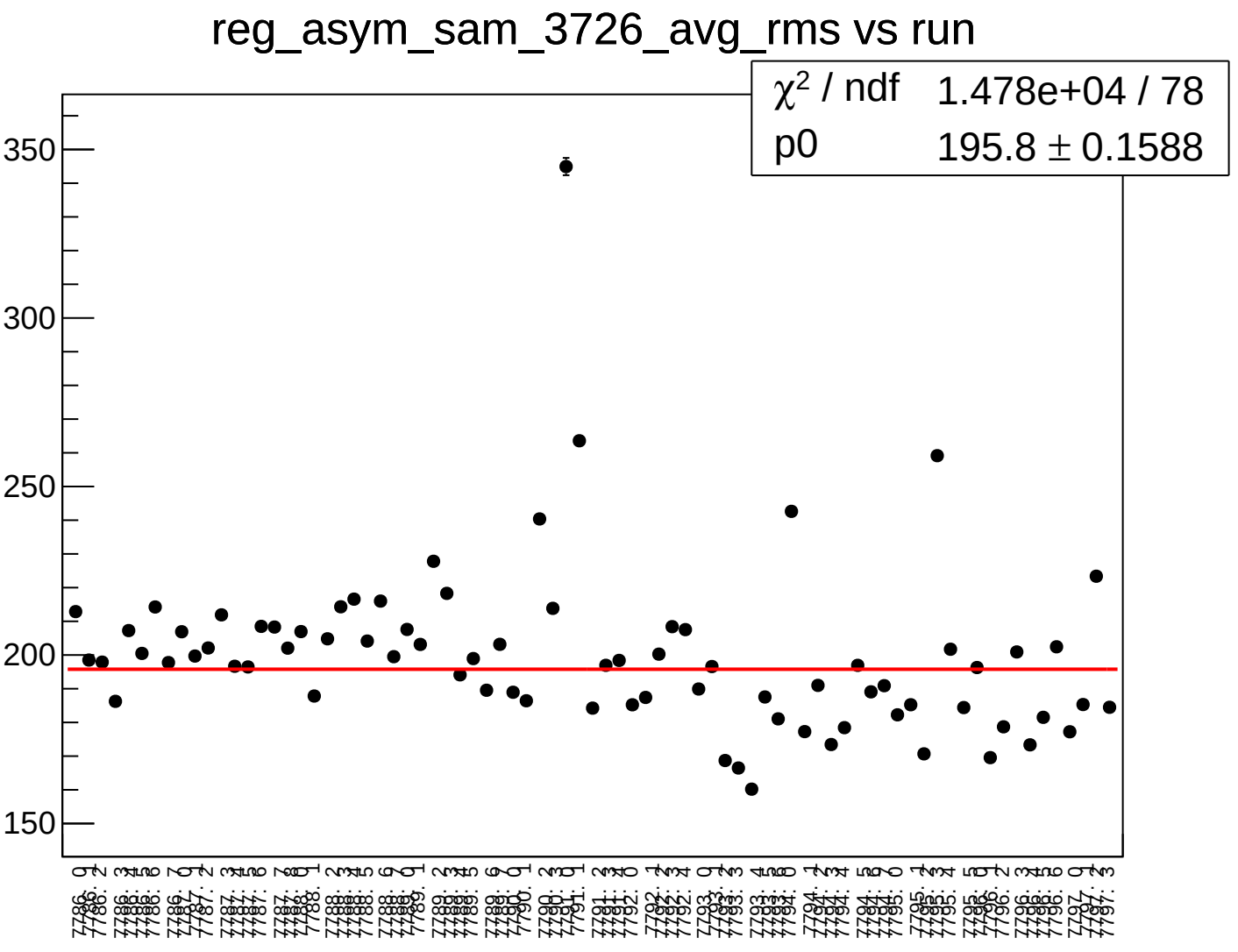

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.43 / 78
p0 2.474e−14 ± 1.051e−13
pull
Entries 79
Mean 94.84
Std Dev 0

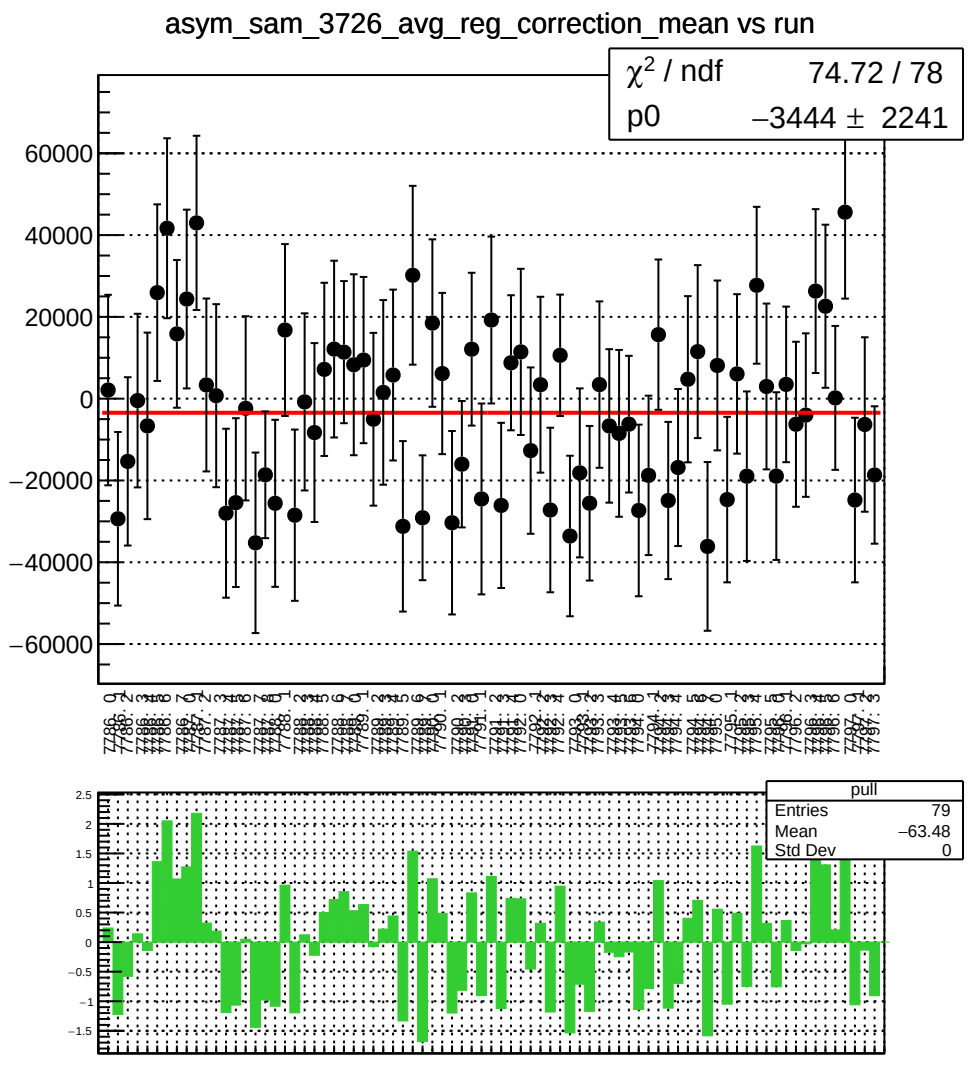

pull1D
Entries 79
Mean 0.06591
Std Dev 0.9814

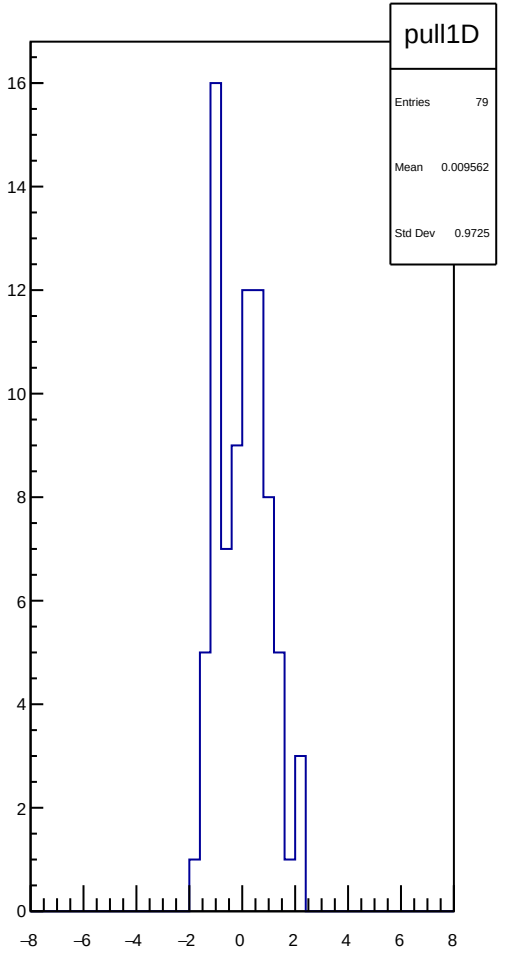

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.446e+05 / 78
p0 7.755e−11 ± 7.43e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

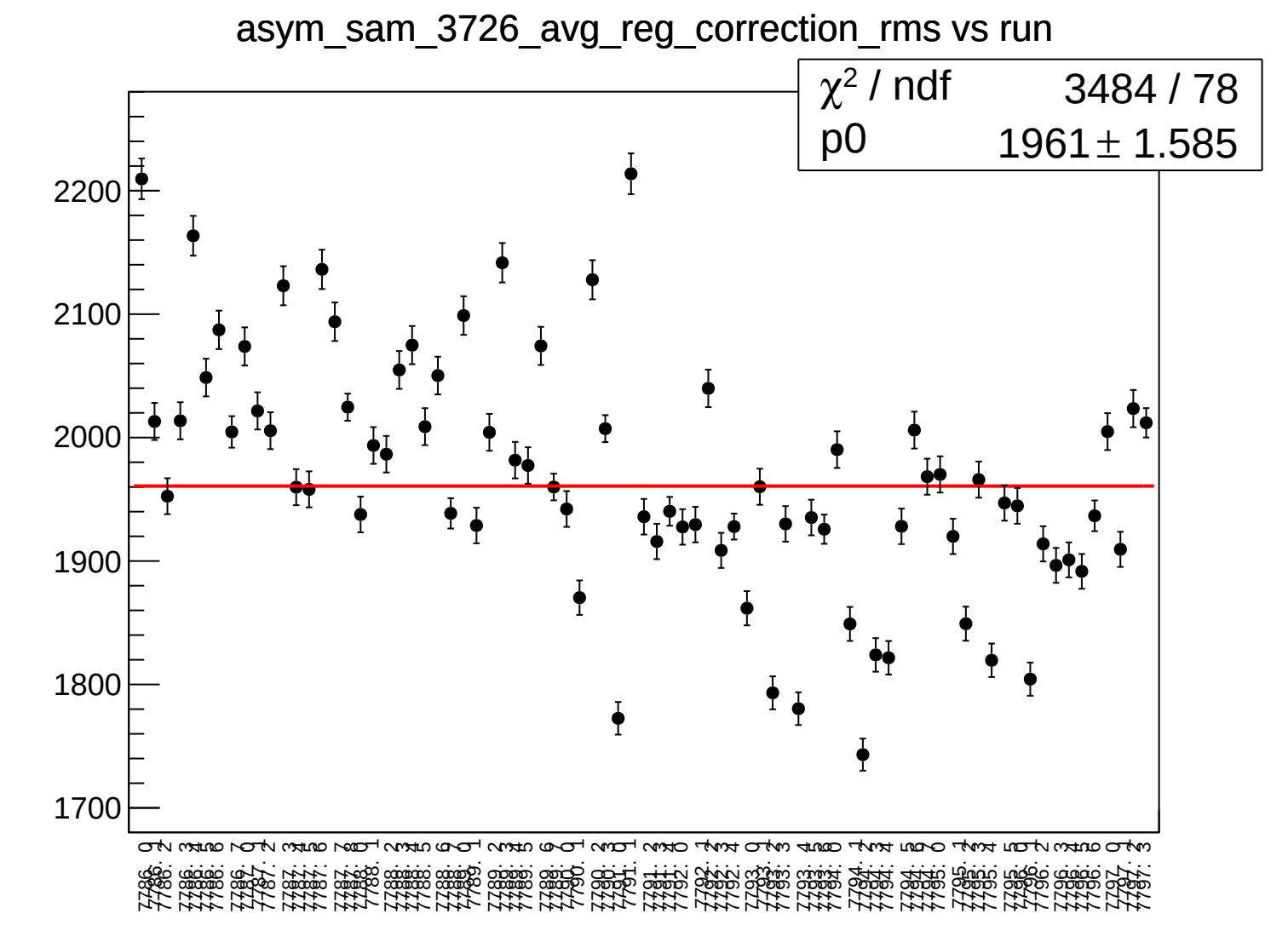

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 63.69 / 78
p0 1.921 ± 224.6
pull
Entries 79
Mean −158.9
Std Dev 0

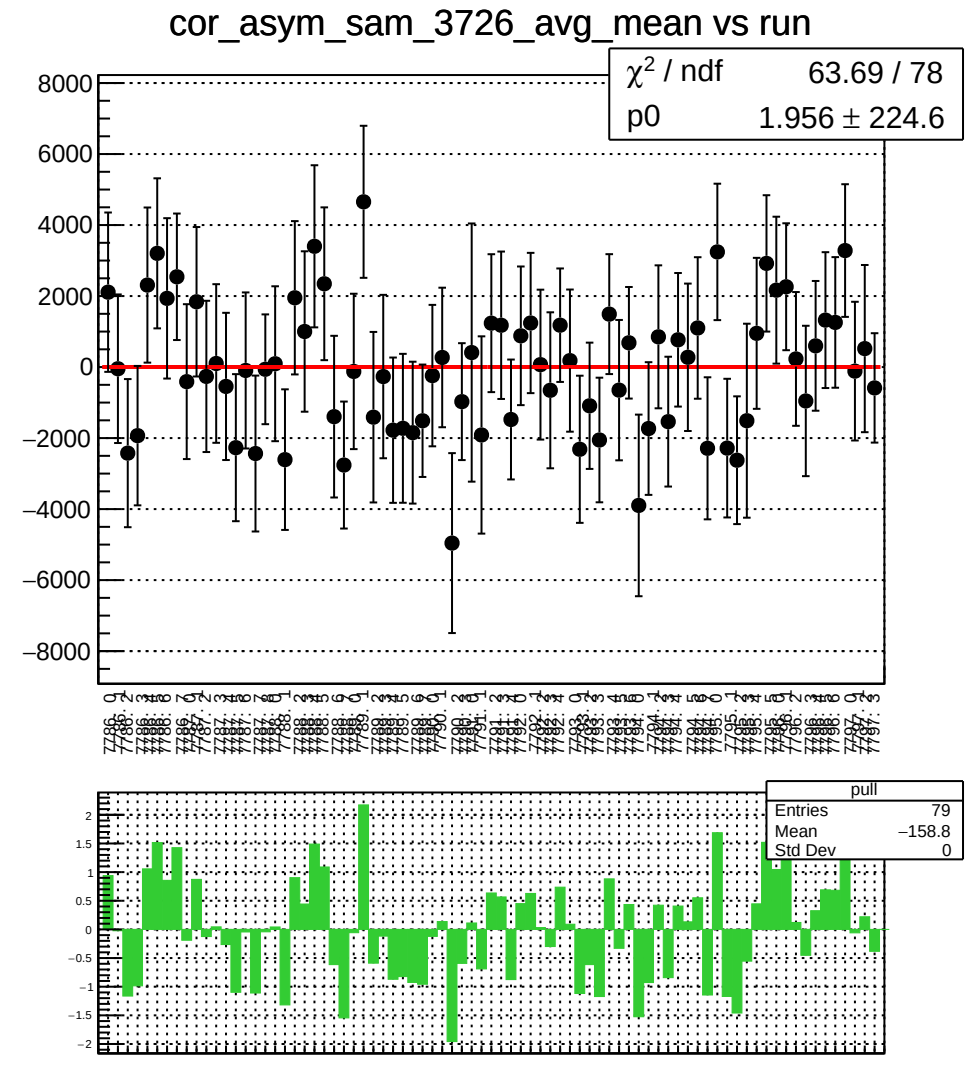

pull1D
Entries 79
Mean −0.003943
Std Dev 0.8979

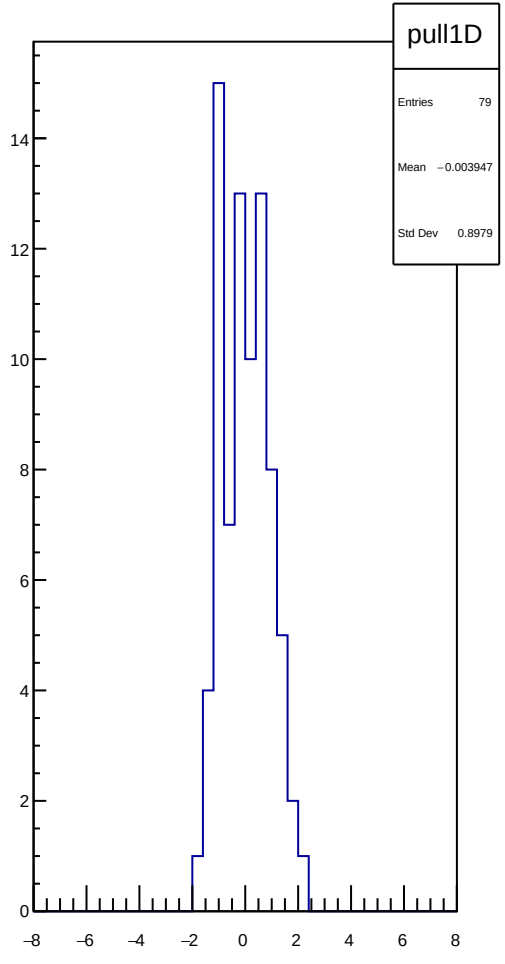

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.478e+04 / 78
p0 195.8 ± 0.1588
350
300
250
200
150

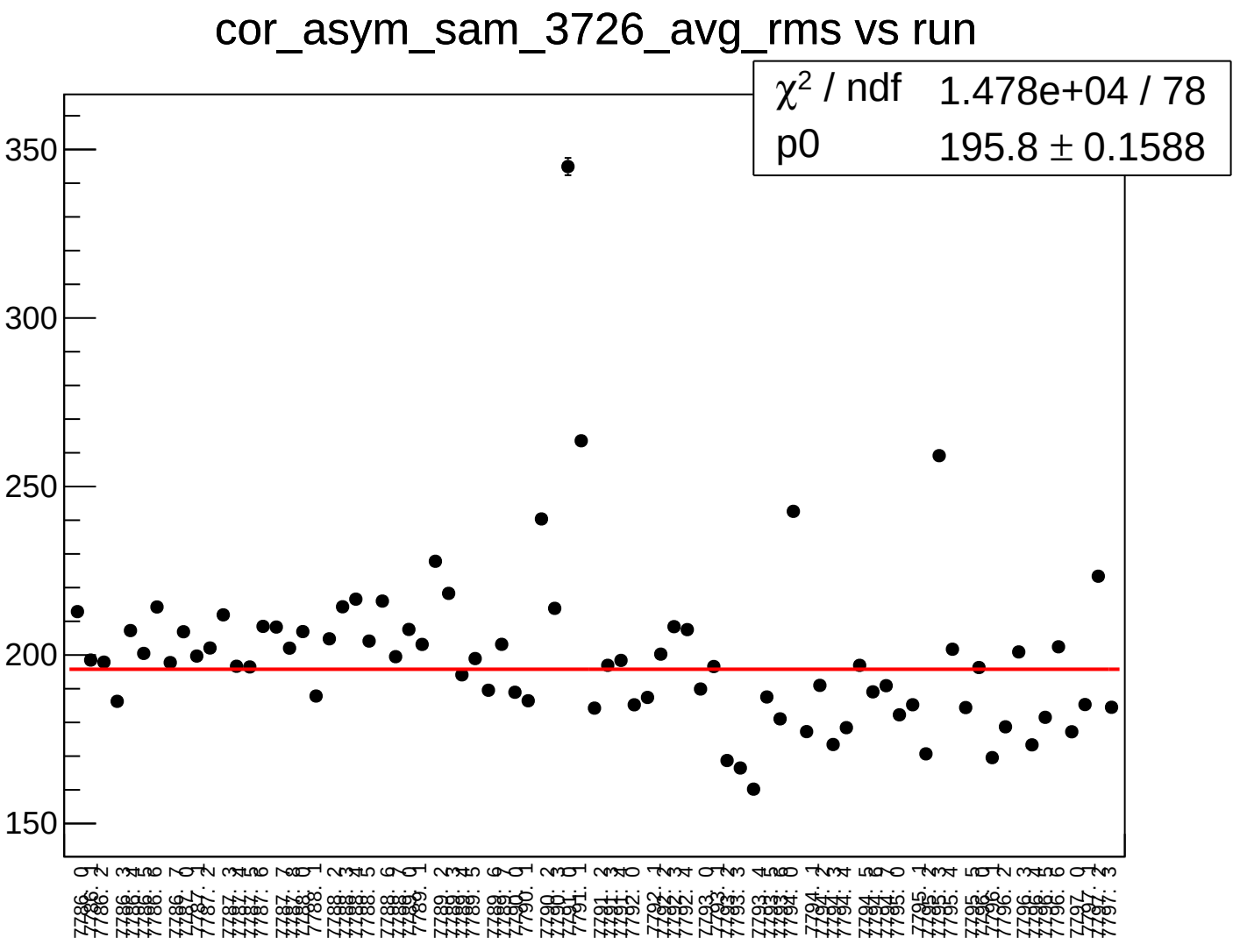

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 74.72 / 78
p0 −3444 ± 2241
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −63.48
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

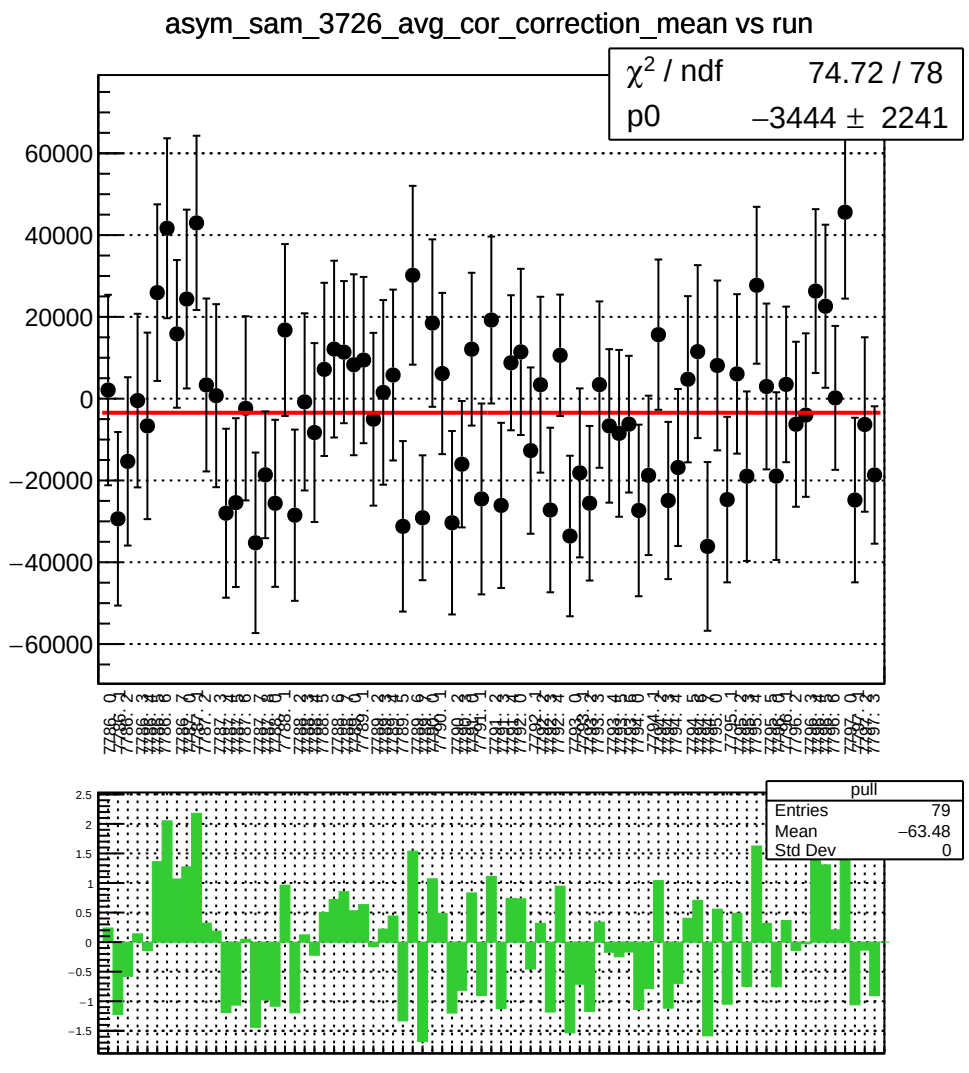

pull1D
Entries 79
Mean 0.009562
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

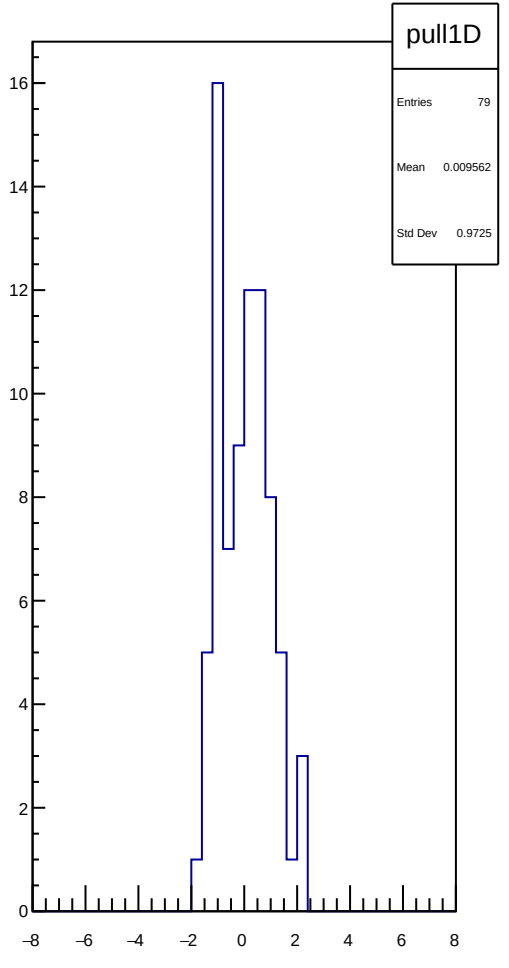

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 3484 / 78
p0 1961 ± 1.585
2200
2100
2000
1900
1800
1700

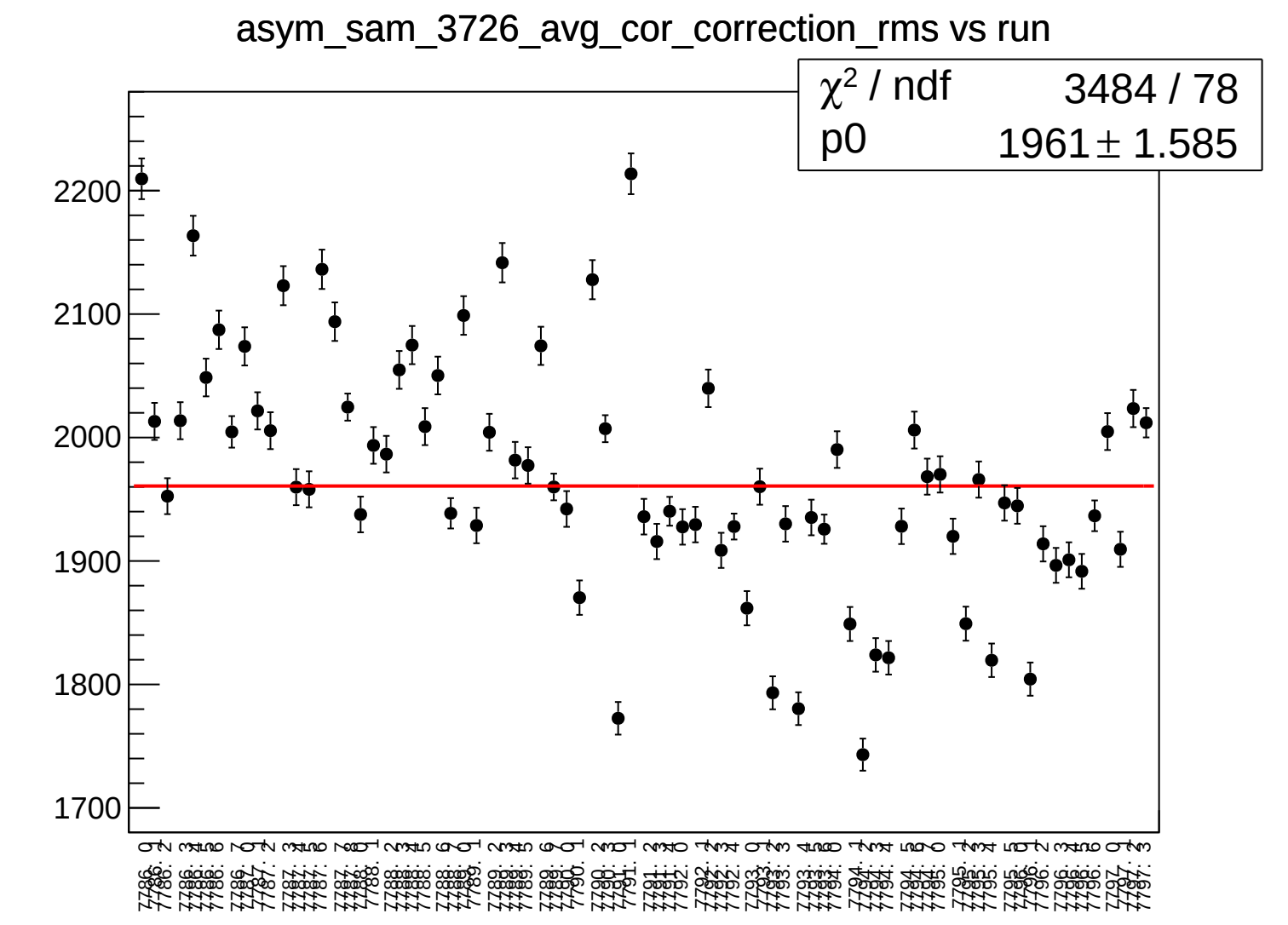

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 63.69 / 78
p0 1.956 ± 224.6
pull
Entries 79
Mean −158.8
Std Dev 0

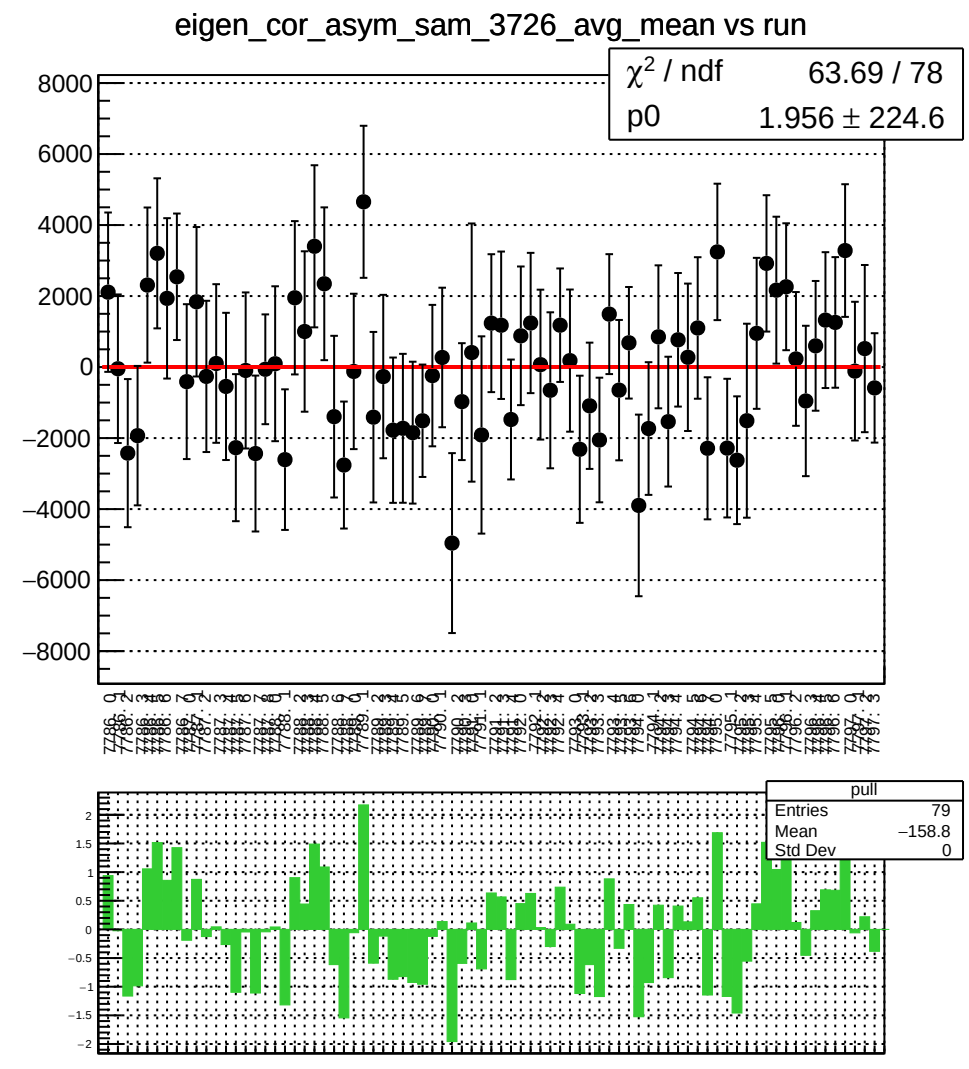

pull1D
Entries 79
Mean −0.003947
Std Dev 0.8979

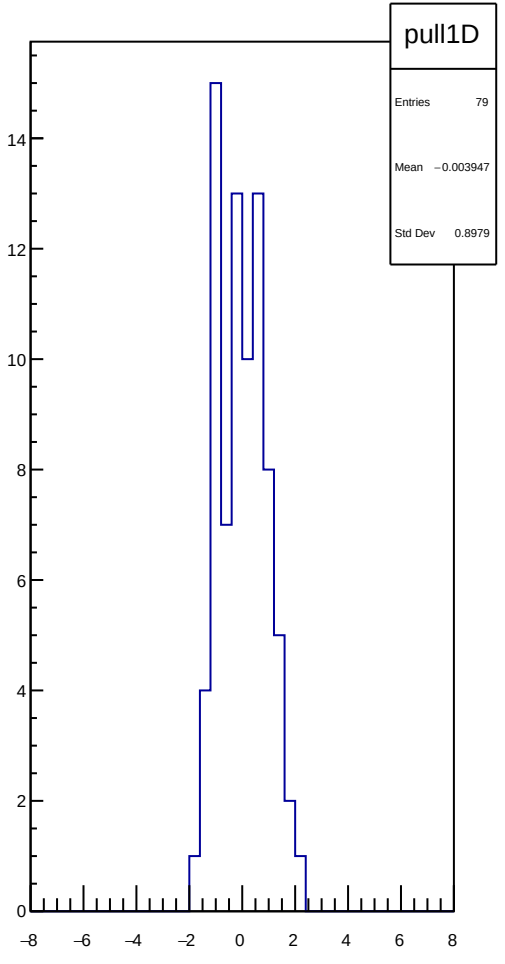

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.478e+04 / 78
p0 195.8 ± 0.1588
350
300
250
200
150

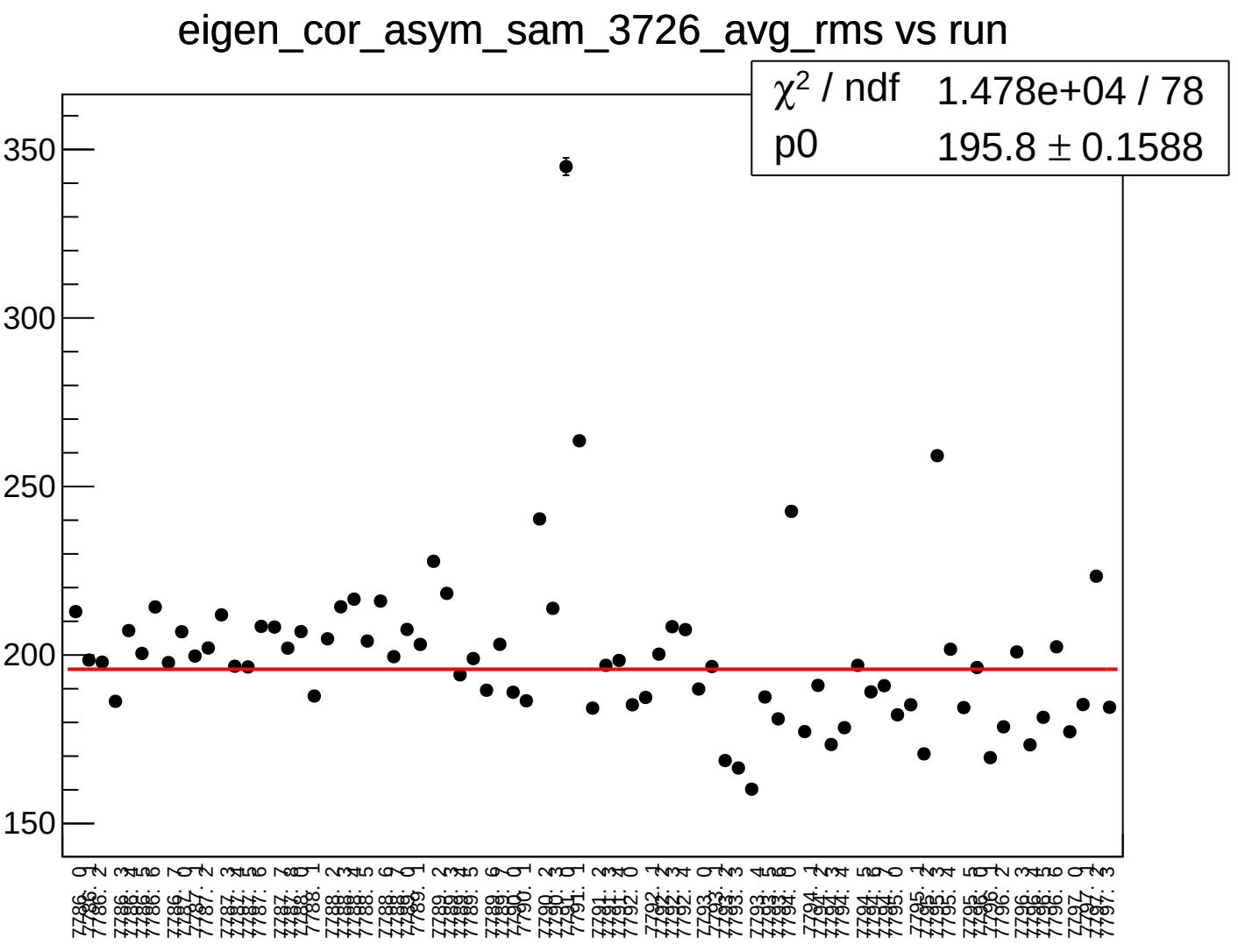

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 74.72 / 78
p0 −3444 ± 2241
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −63.48
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

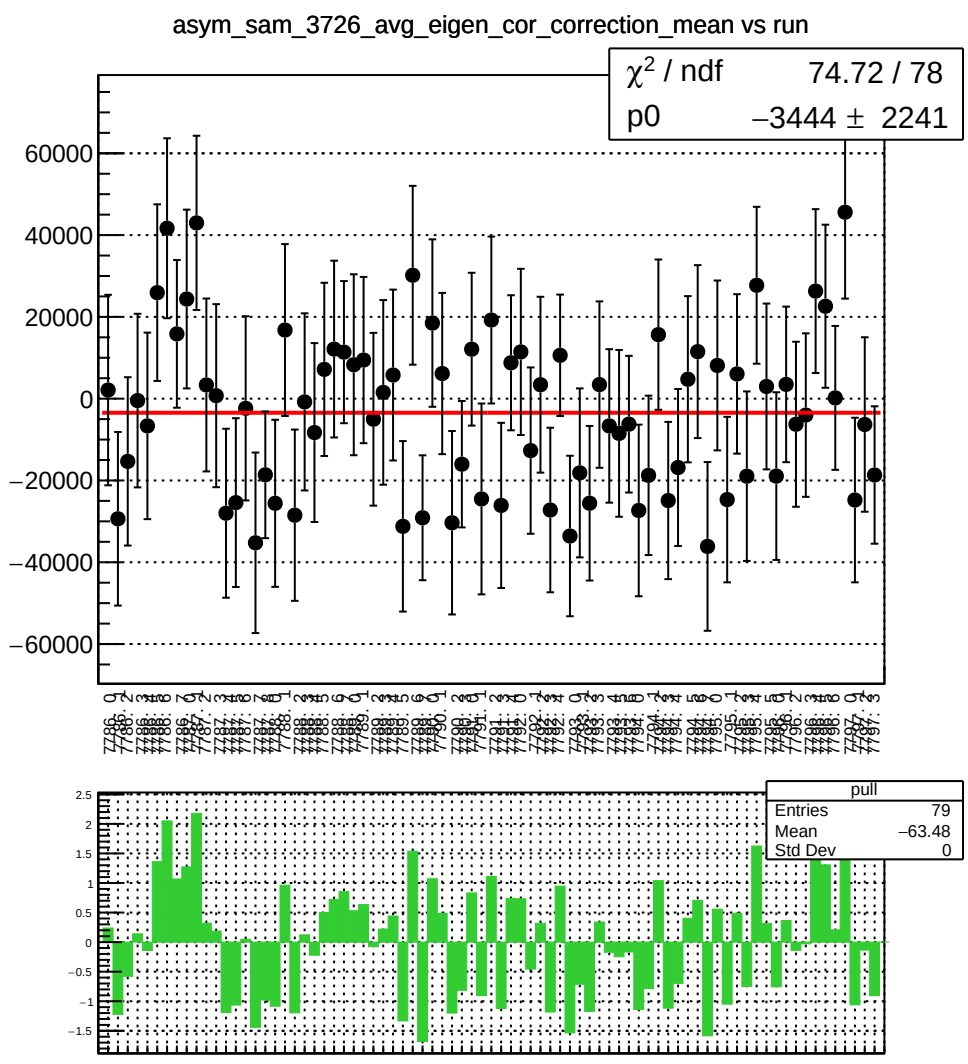

pull1D
Entries 79
Mean 0.009562
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

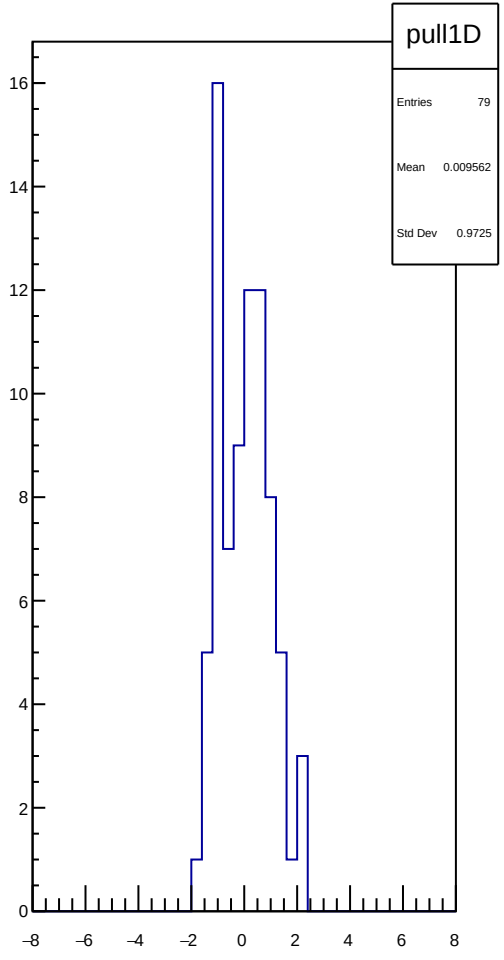

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 3484 / 78
p0 1961 ± 1.585
2200
2100
2000
1900
1800
1700

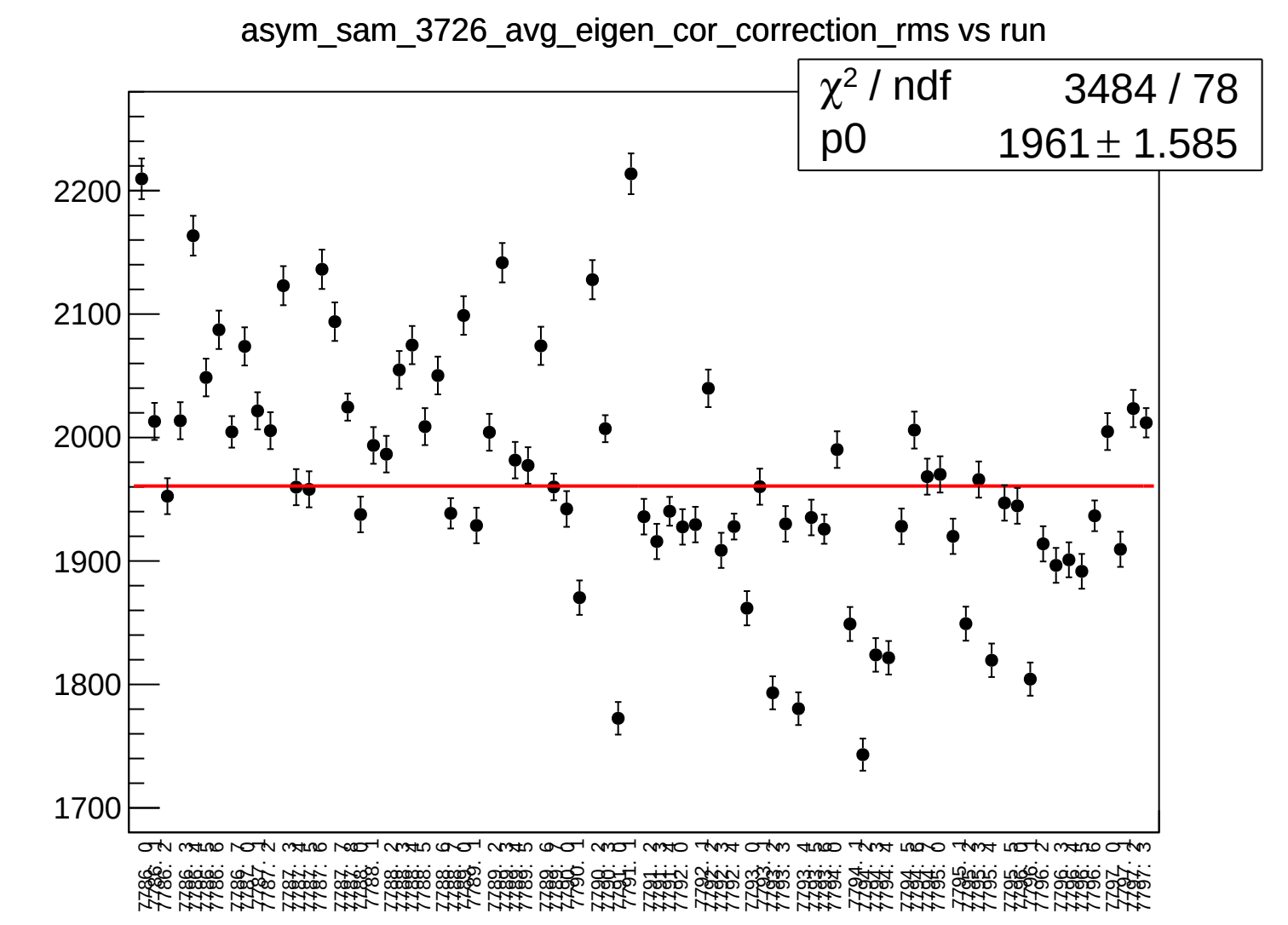

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 63.69 / 78
p0 1.956 ± 224.6
pull
Entries 79
Mean −158.8
Std Dev 0

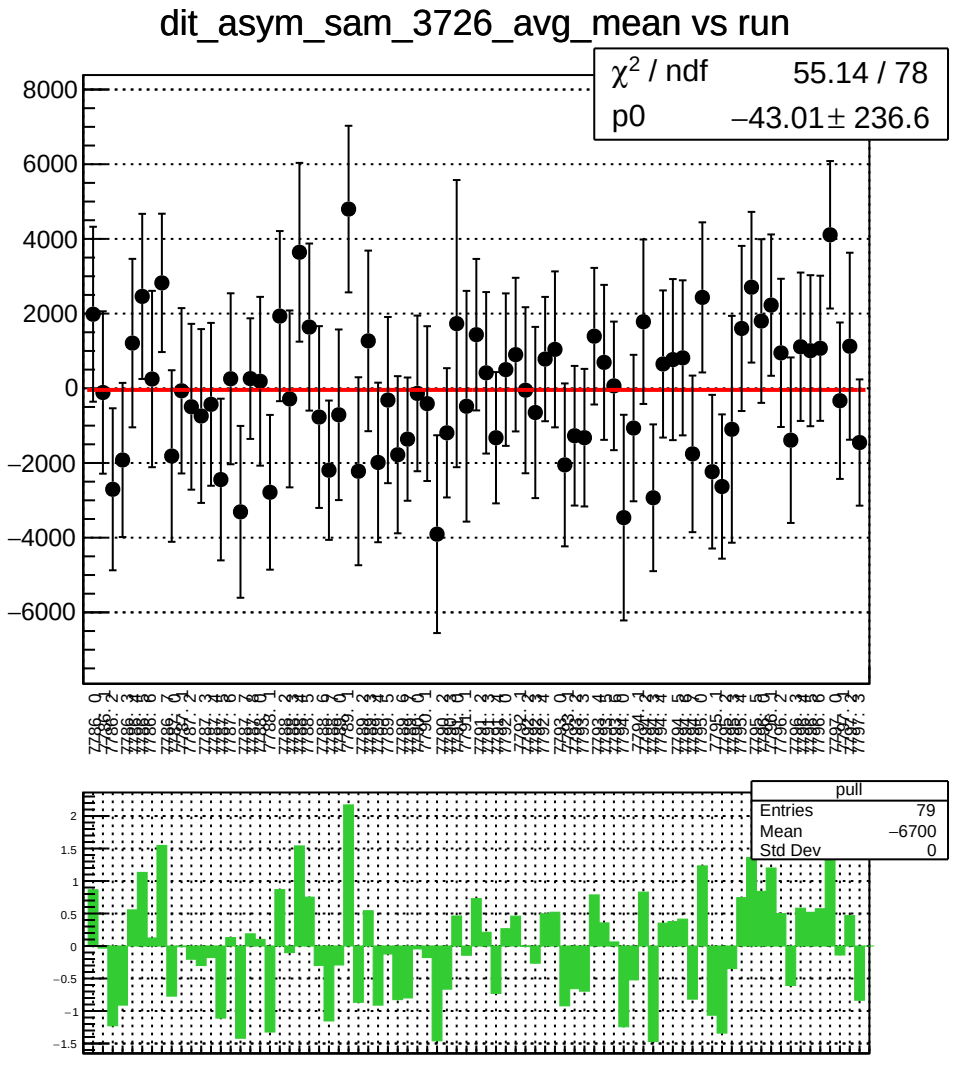

pull1D
Entries 79
Mean −0.003947
Std Dev 0.8979

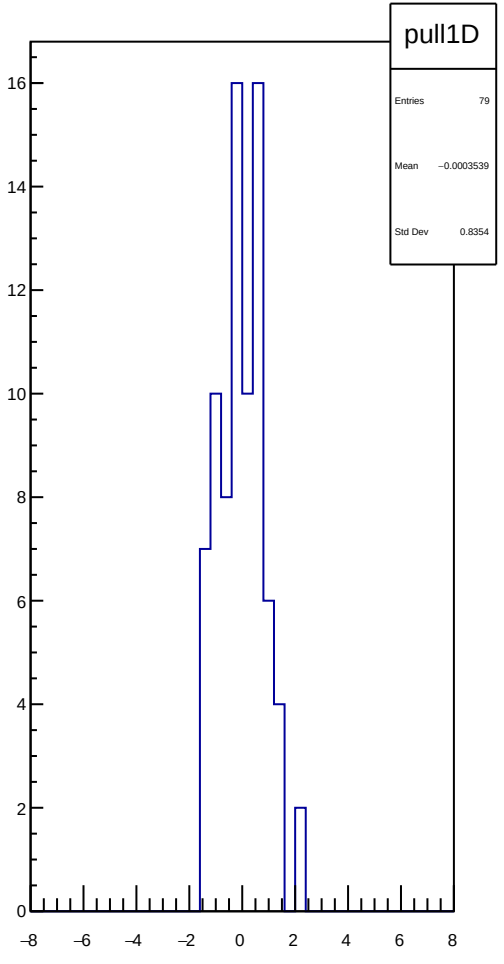

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.478e+04 / 78
p0 195.8 ± 0.1588
350
300
250
200
150

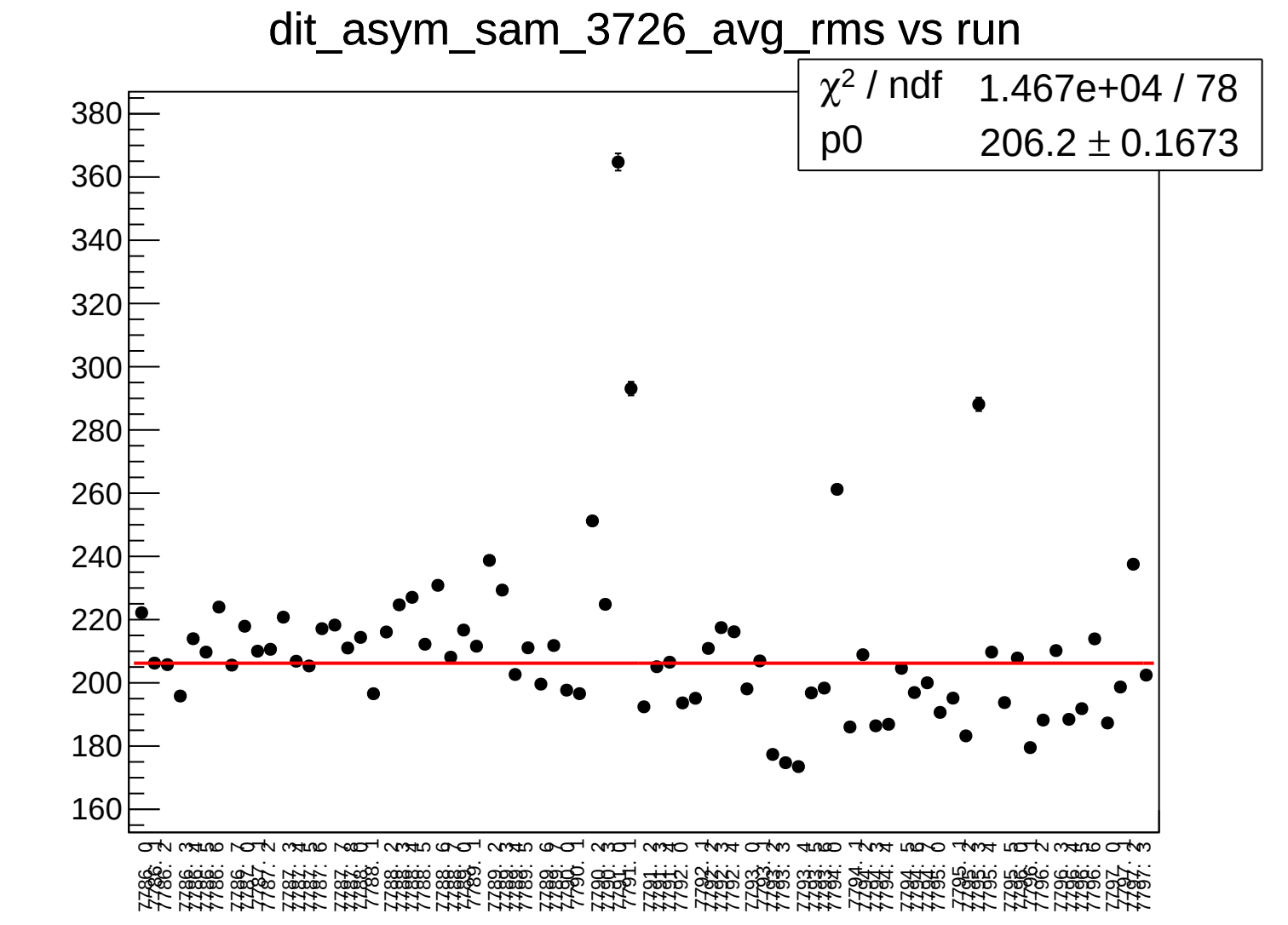

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.72 / 78
p0 −3444 ± 2241
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −63.48
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

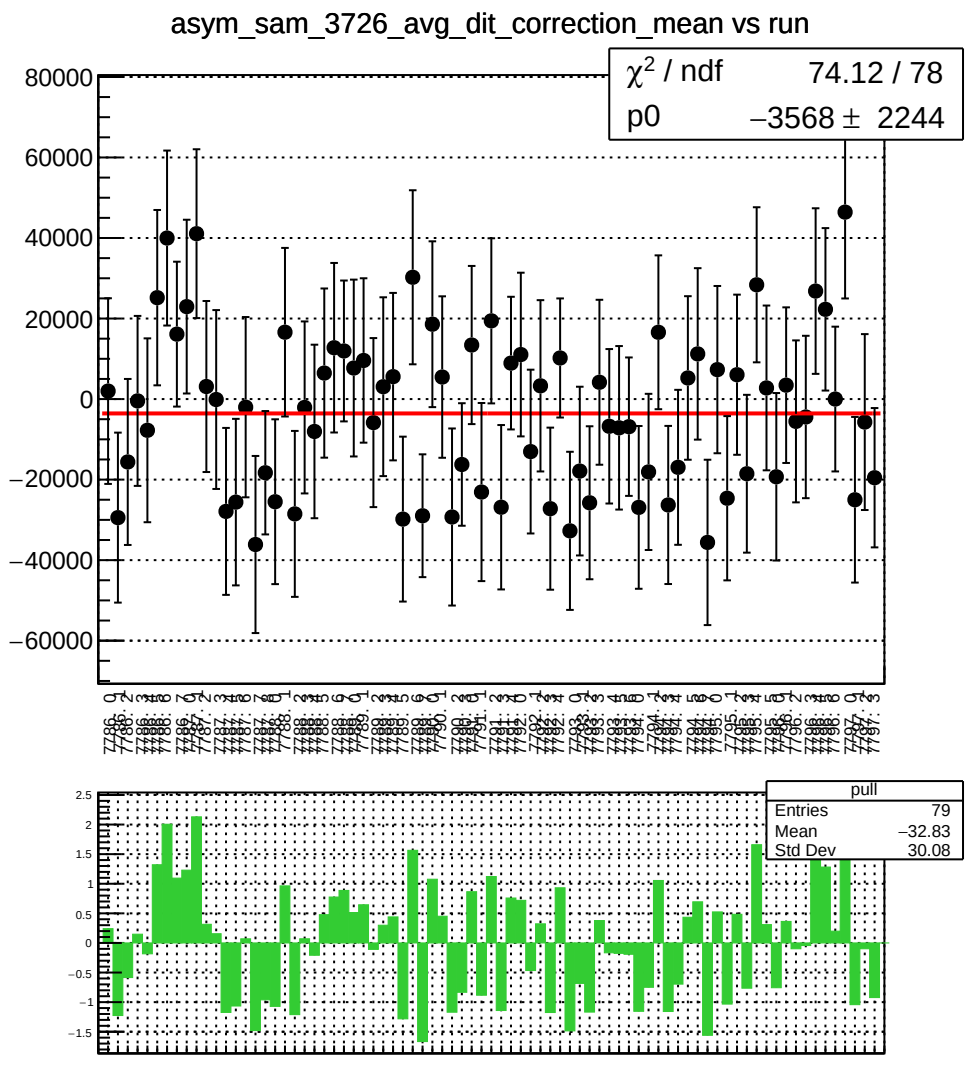

pull1D
Entries 79
Mean 0.009562
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

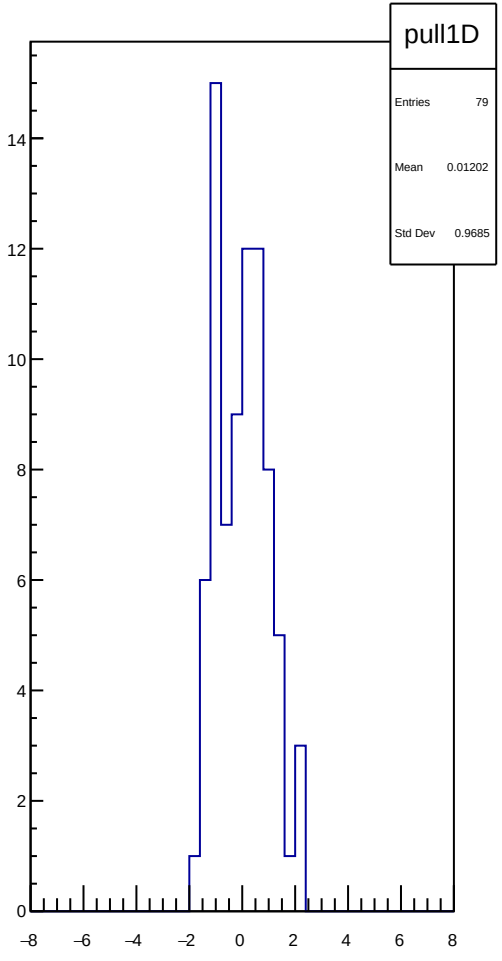

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 3484 / 78
p0 1961 ± 1.585
2200
2100
2000
1900
1800
1700

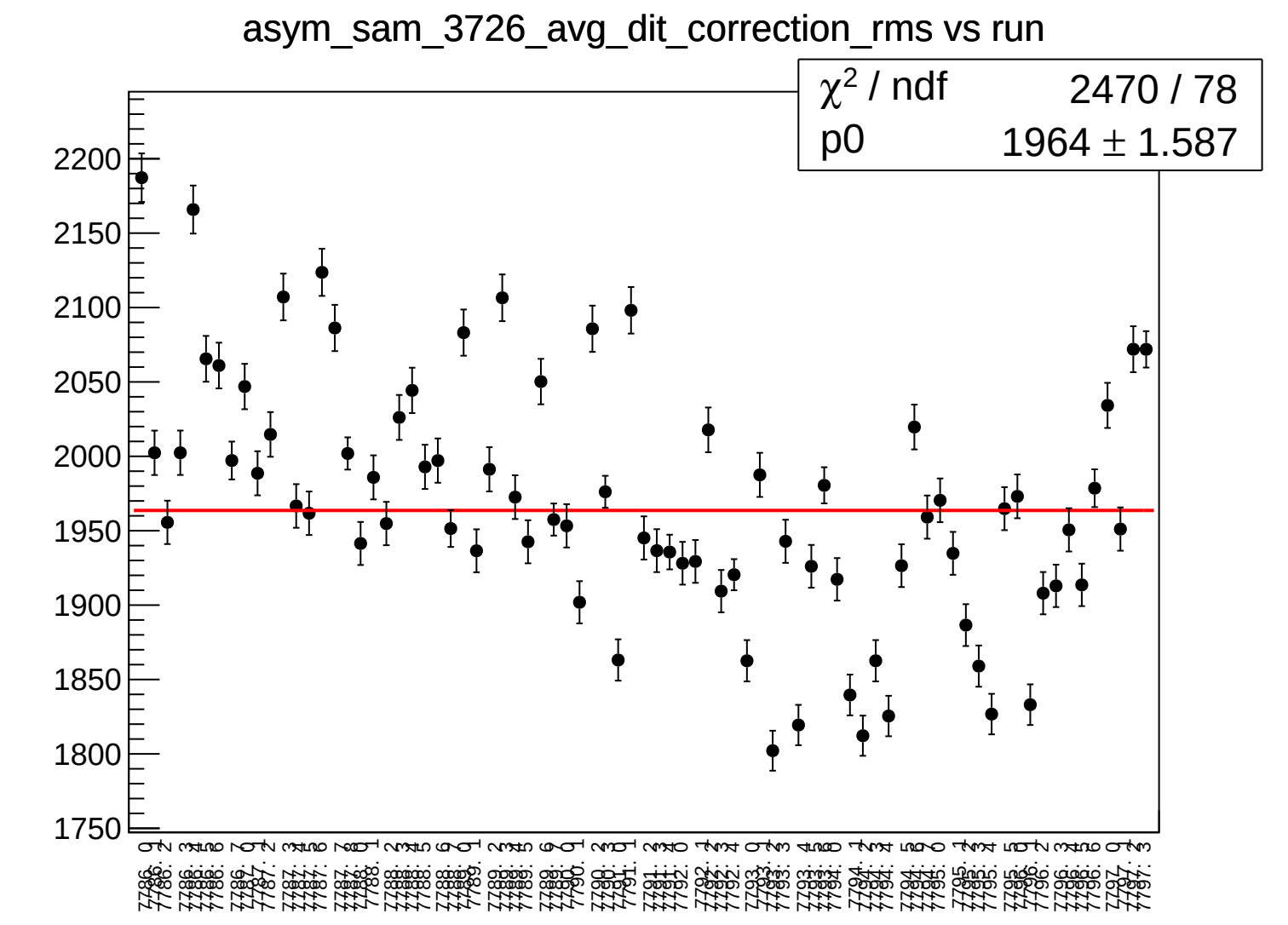

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 55.14 / 78
p0 −43.01 ± 236.6
pull
Entries 79
Mean −6700
Std Dev 0

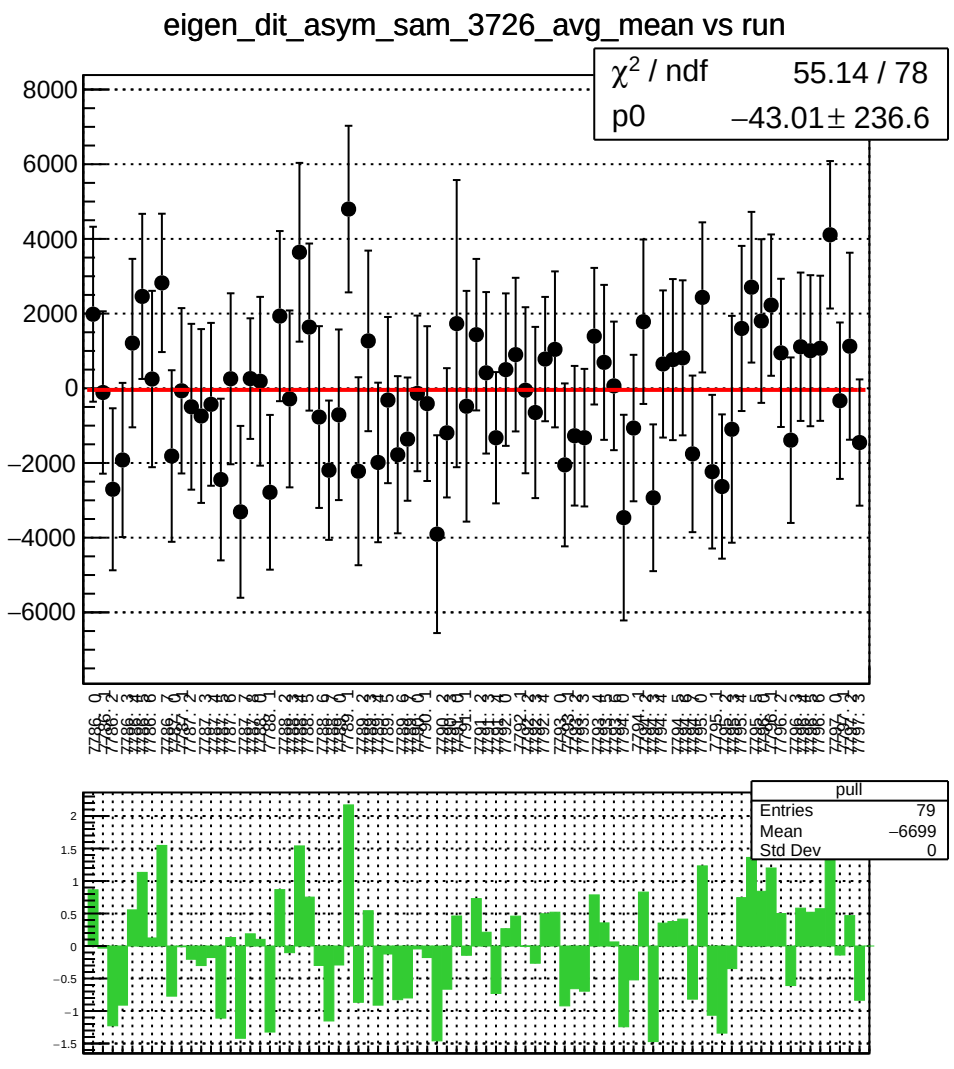

pull1D
Entries 79
Mean −0.0003539
Std Dev 0.8354

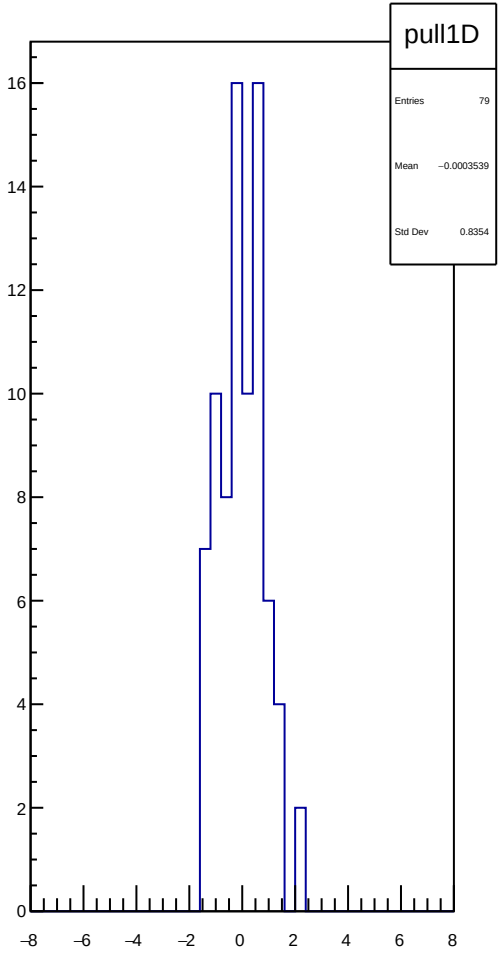

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.467e+04 / 78
p0 206.2 ± 0.1673
380
360
340
320
300
280
260
240
220
200
180
160

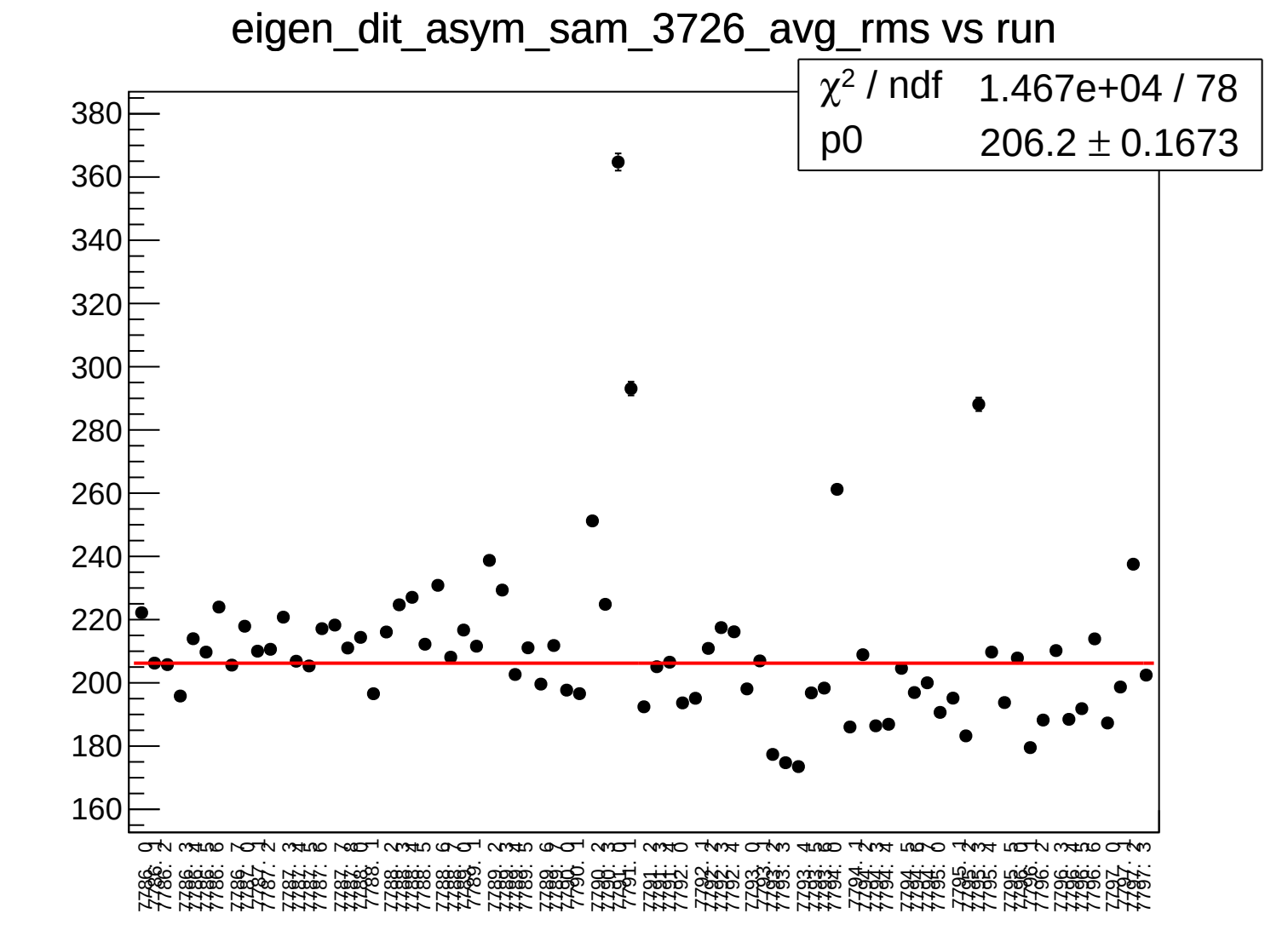

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 74.12 / 78
p0 −3568 ± 2244
pull
Entries 79
Mean −32.83
Std Dev 30.08

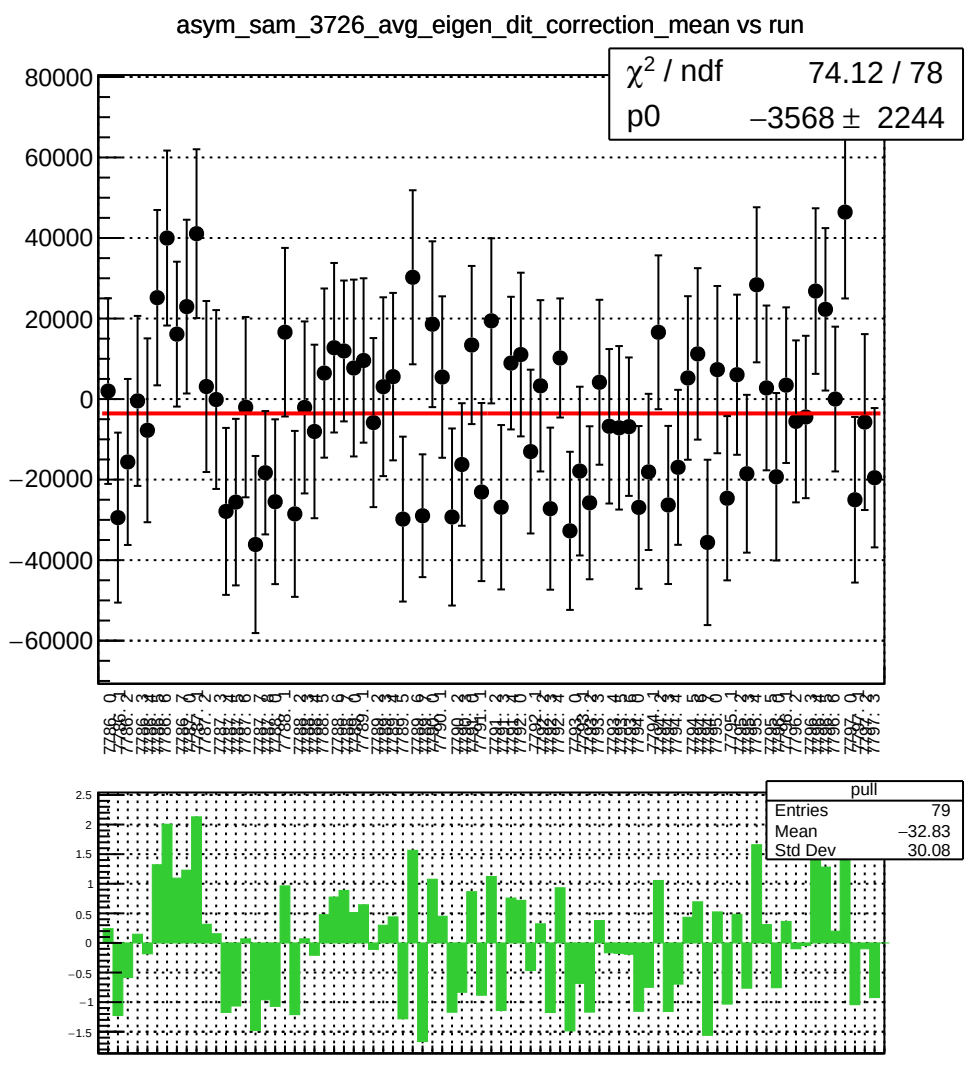

pull1D
Entries 79
Mean 0.01202
Std Dev 0.9685

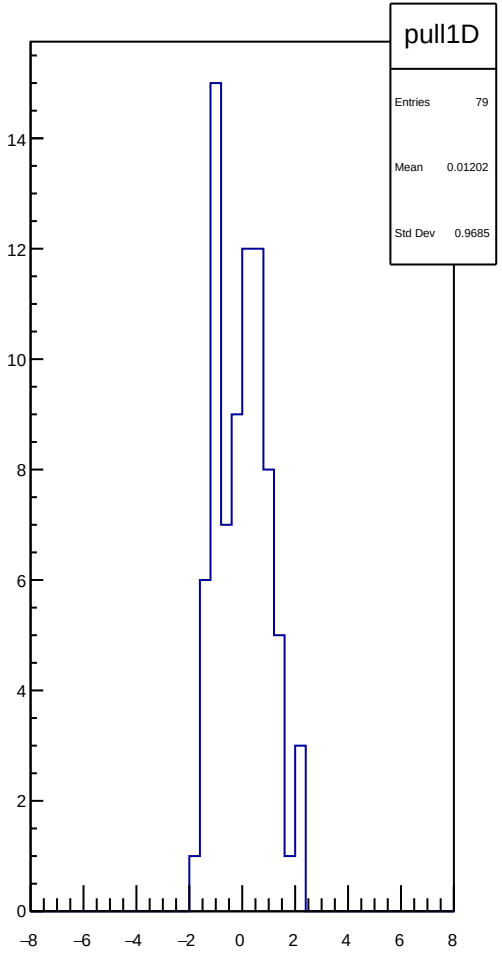

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 2470 / 78
p0 1964 ± 1.587
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

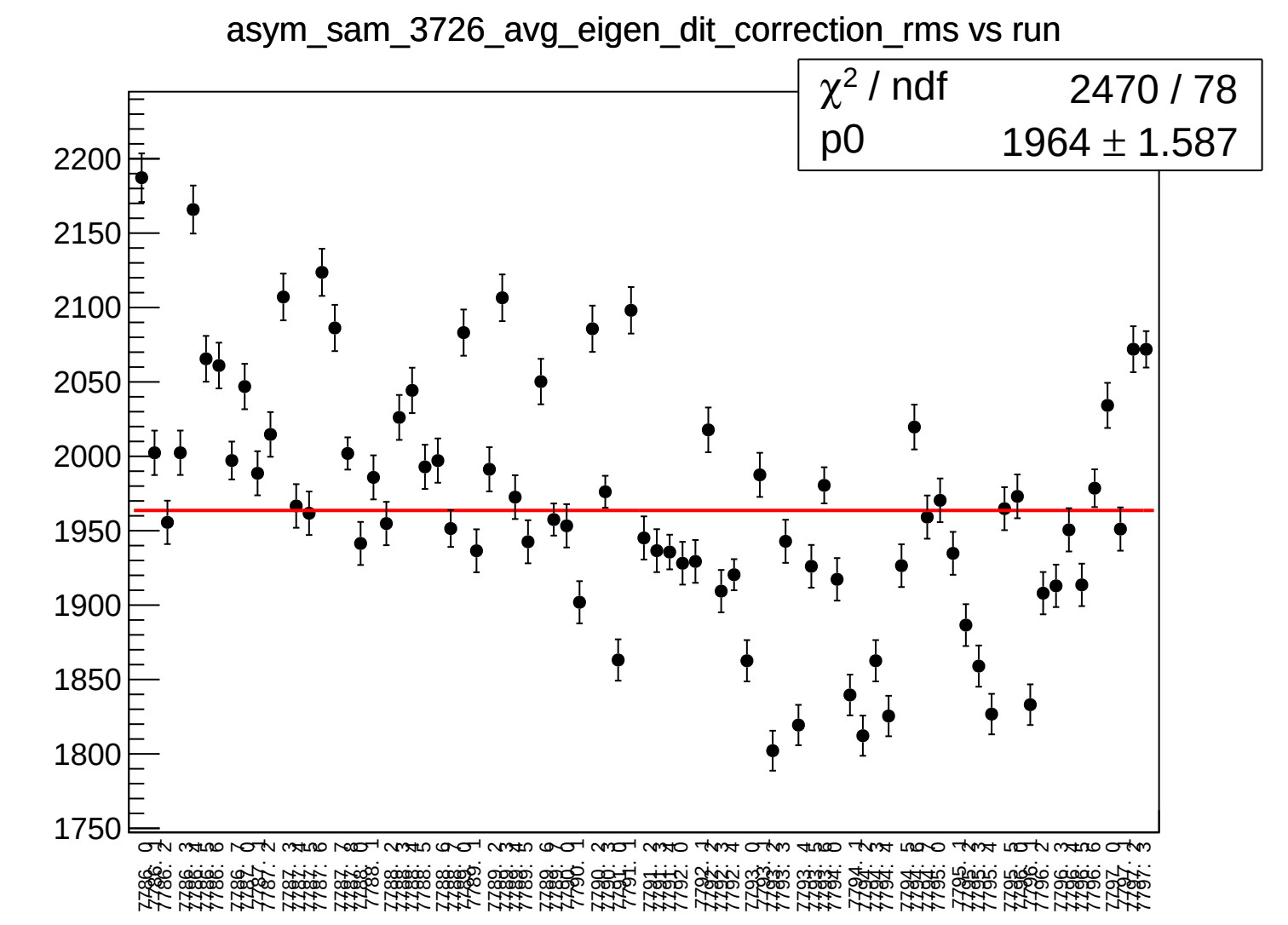

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 55.14 / 78
p0 −43.01 ± 236.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 79
Mean −6699
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

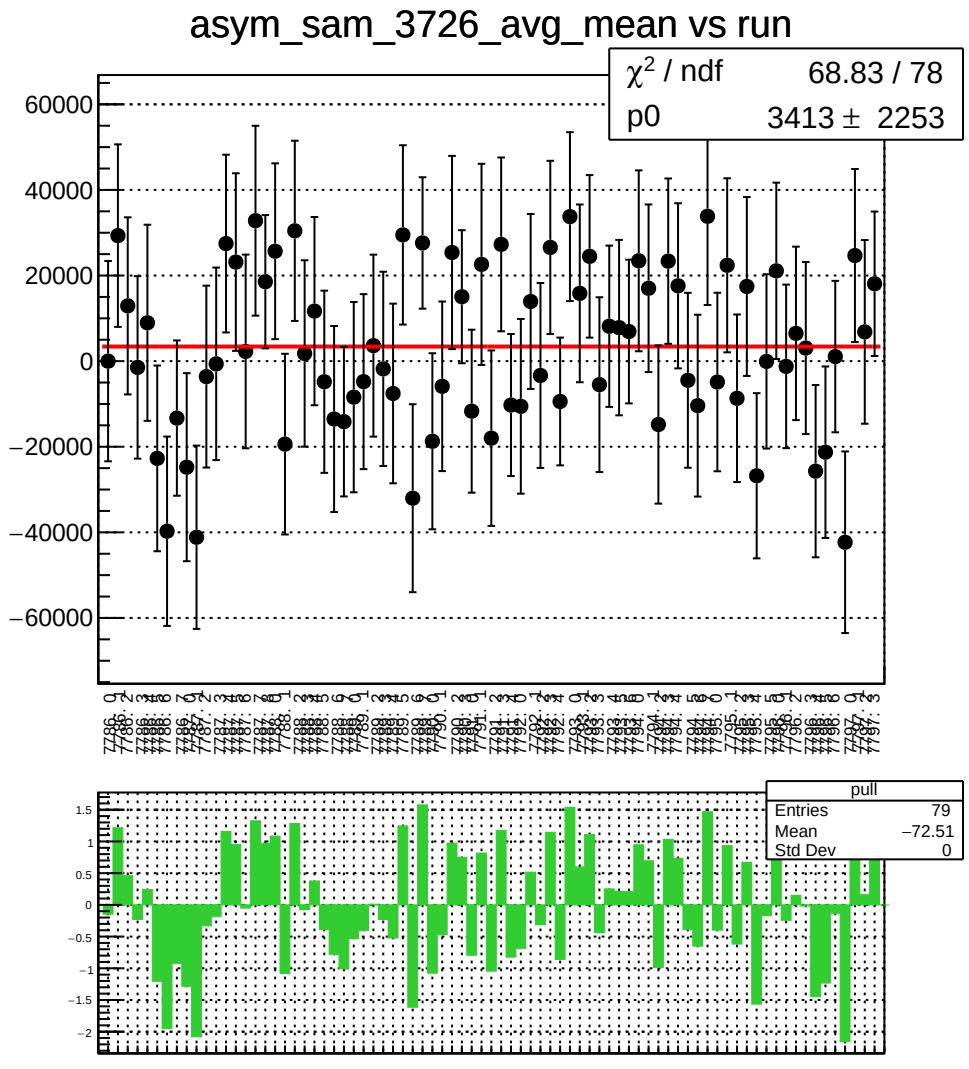

pull1D
Entries 79
Mean −0.0003539
Std Dev 0.8354
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

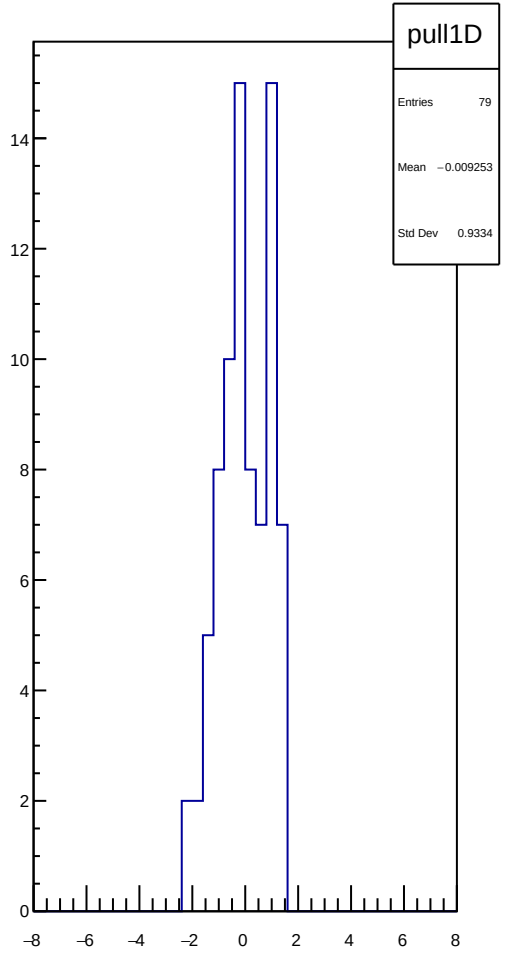

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.467e+04 / 78
p0 206.2 ± 0.1673
380
360
340
320
300
280
260
240
220
200
180
160

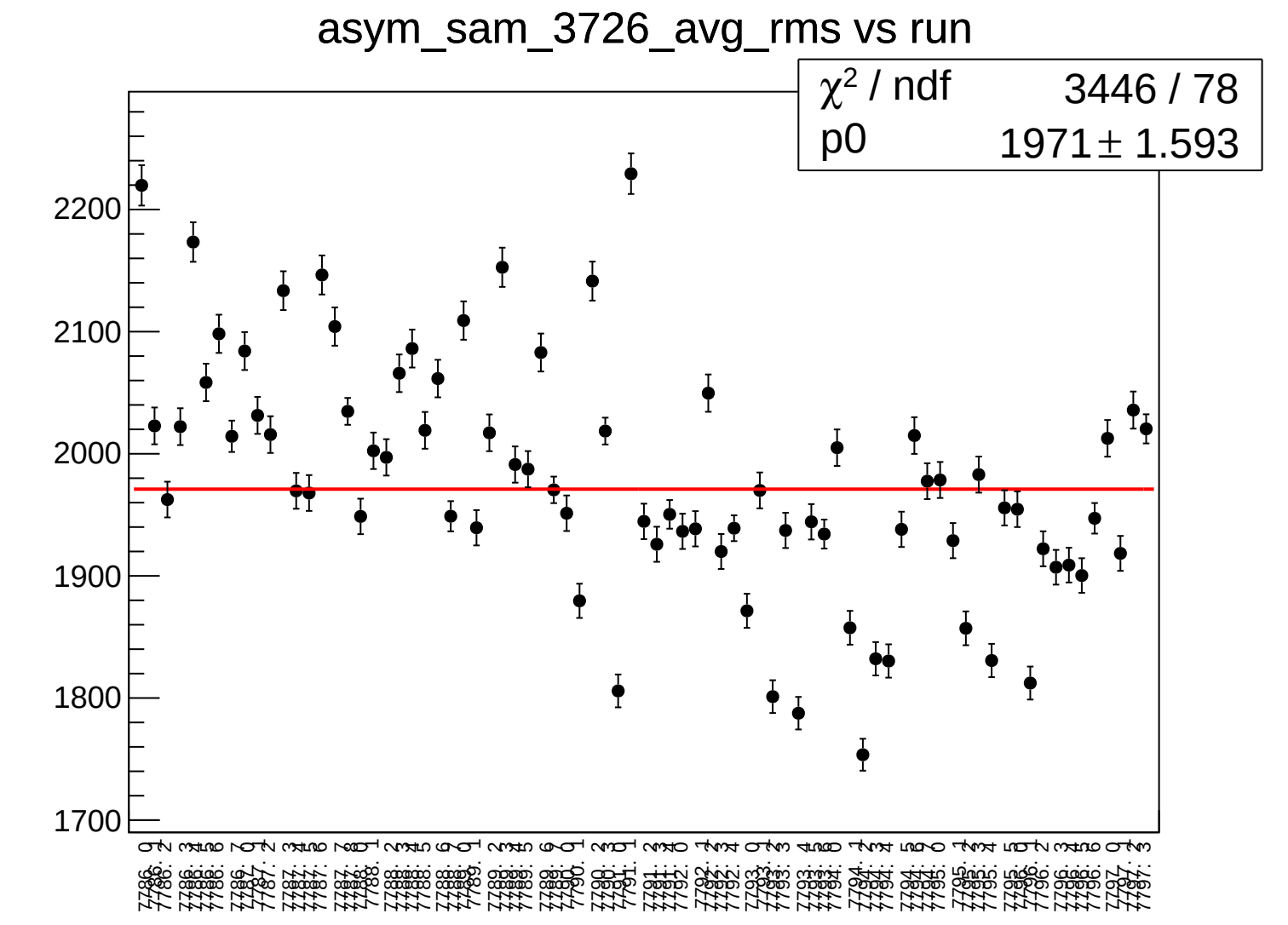

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.12 / 78
p0 −3568 ± 2244
pull
Entries 79
Mean −32.83
Std Dev 30.08

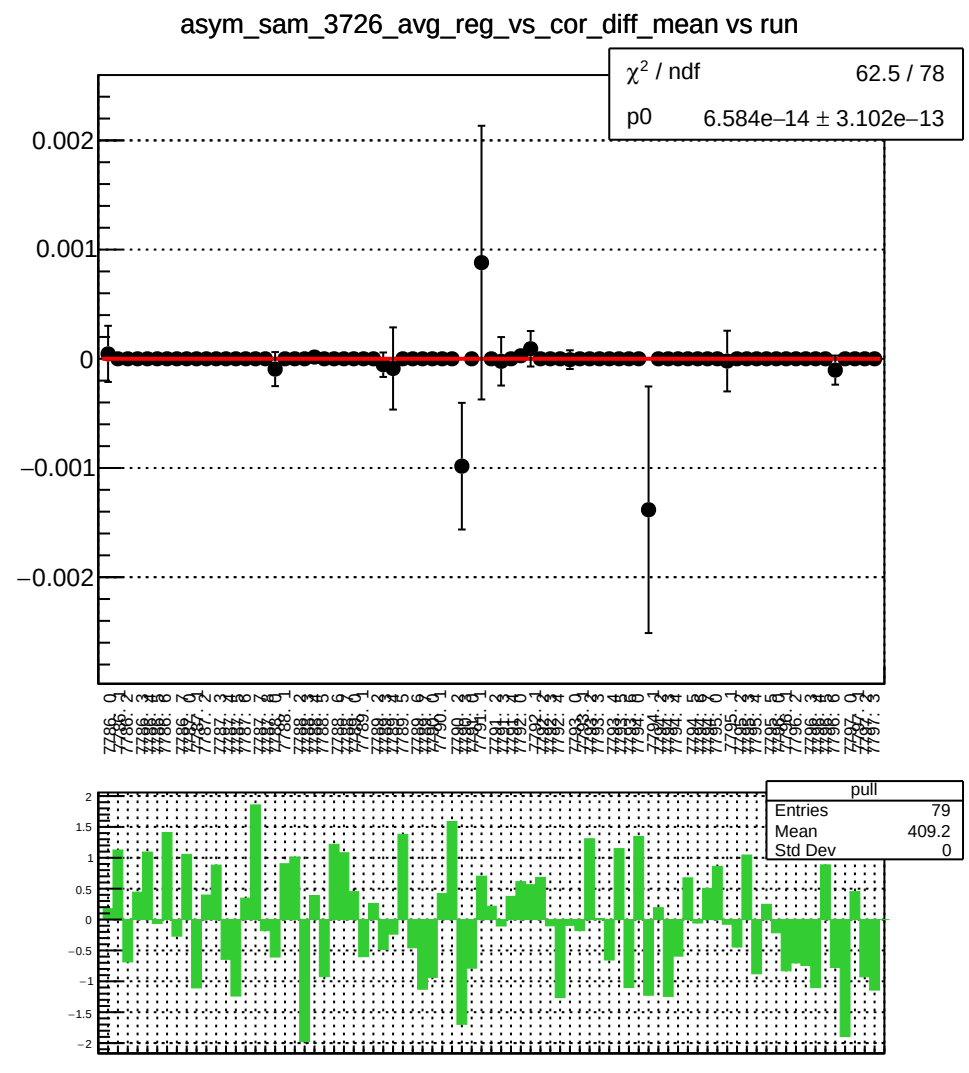

pull1D
Entries 79
Mean 0.01202
Std Dev 0.9685

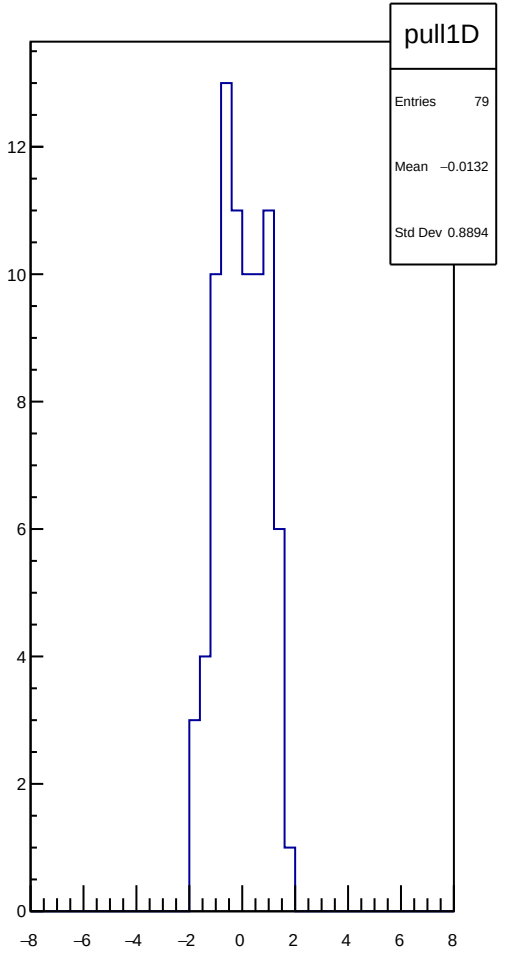

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 2470 / 78
p0 1964 ± 1.587
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

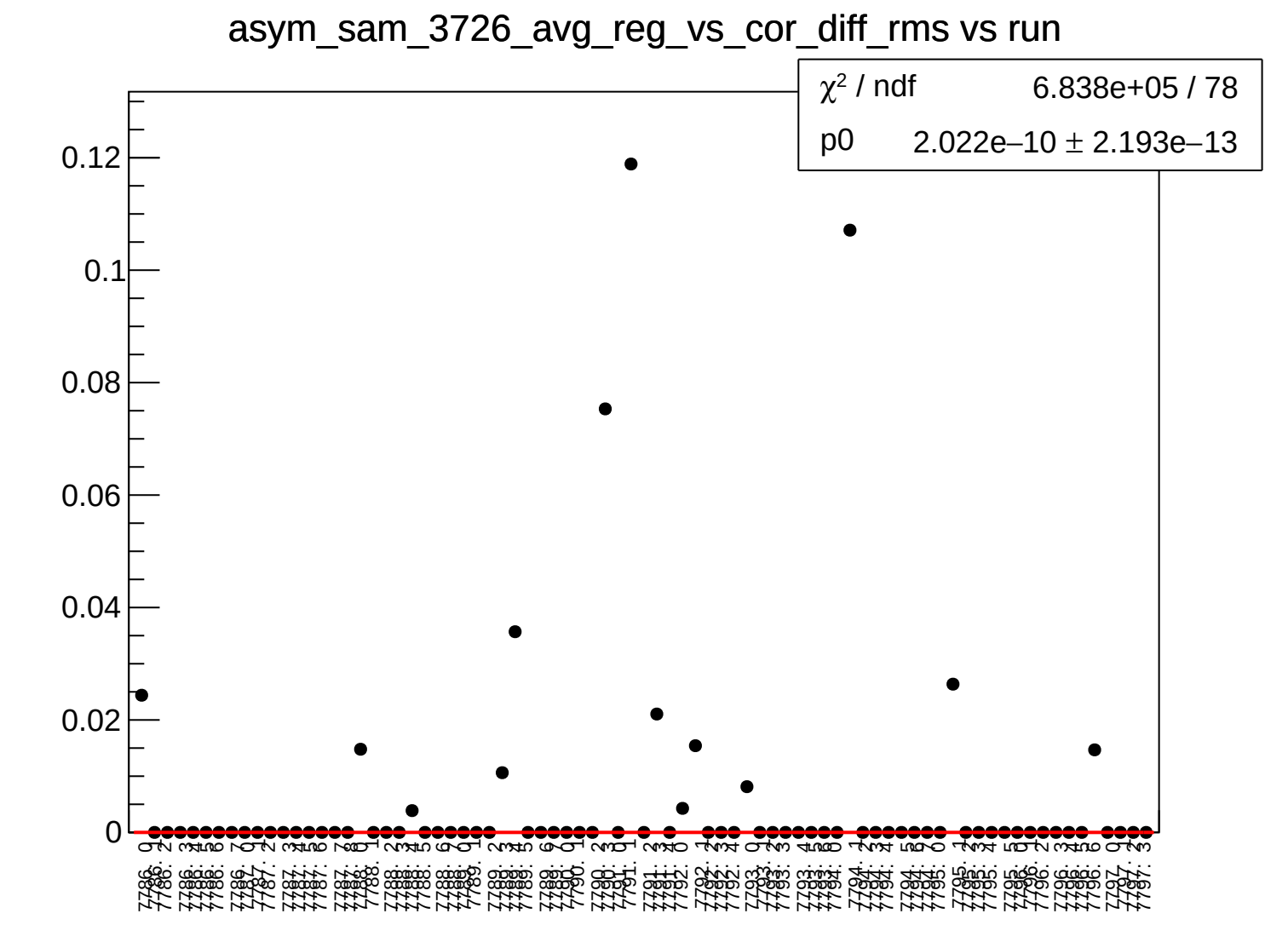

asym_sam_3726_avg_mean vs run
χ² / ndf 68.83 / 78
p0 3413 ± 2253
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −72.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

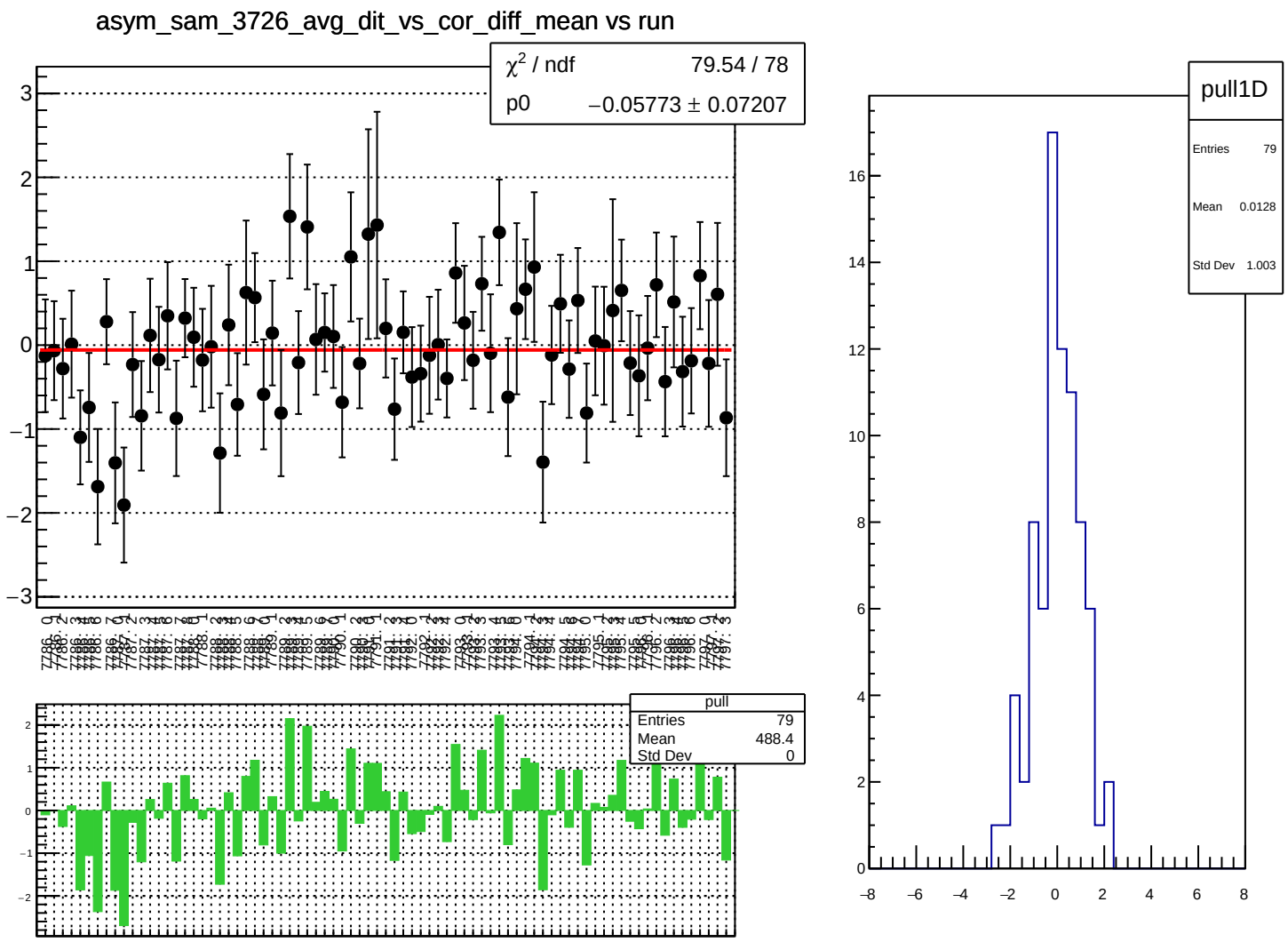

pull1D
Entries 79
Mean −0.009253
Std Dev 0.9334
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

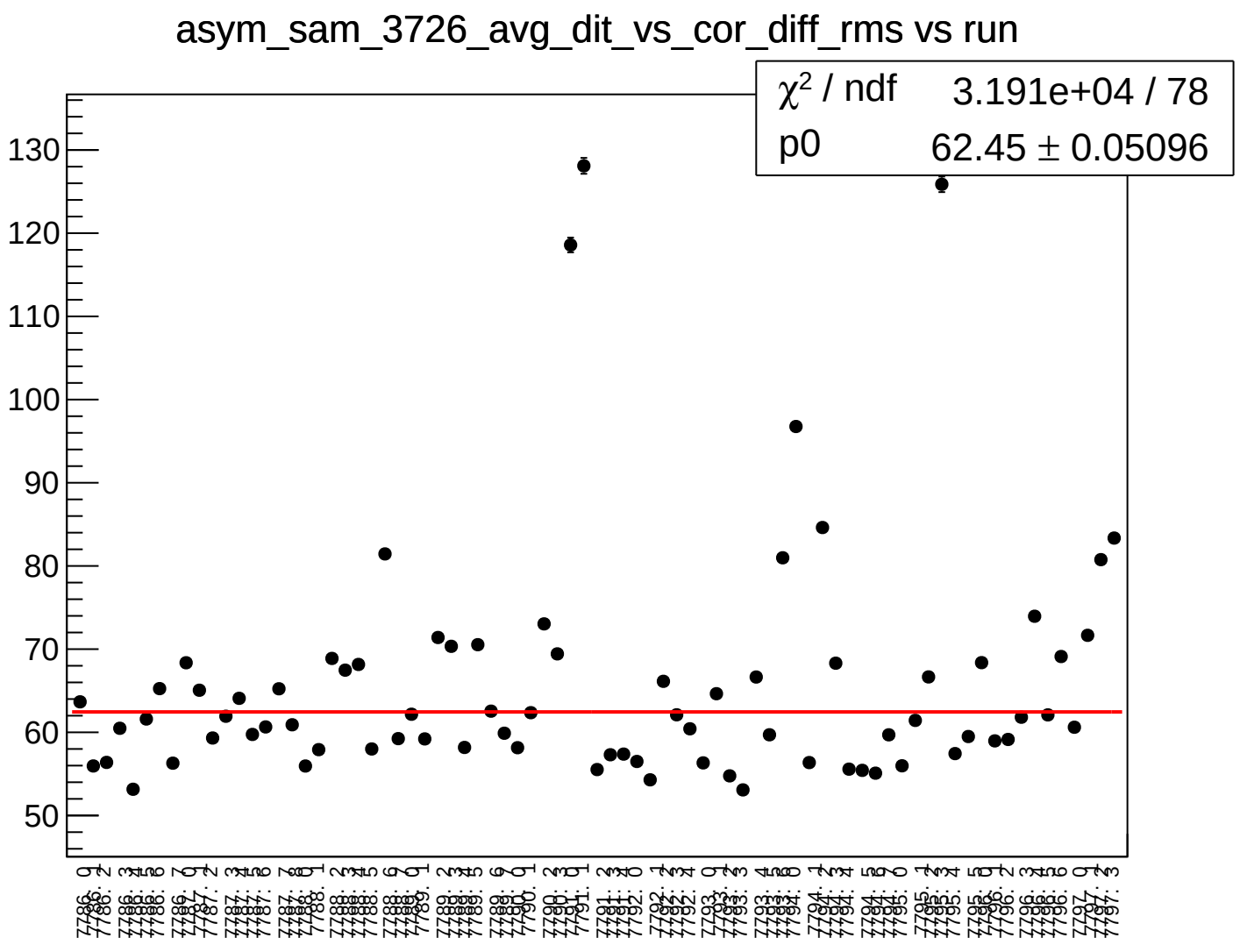

asym_sam_3726_avg_rms vs run
χ² / ndf 3446 / 78
p0 1971 ± 1.593
2200
2100
2000
1900
1800
1700

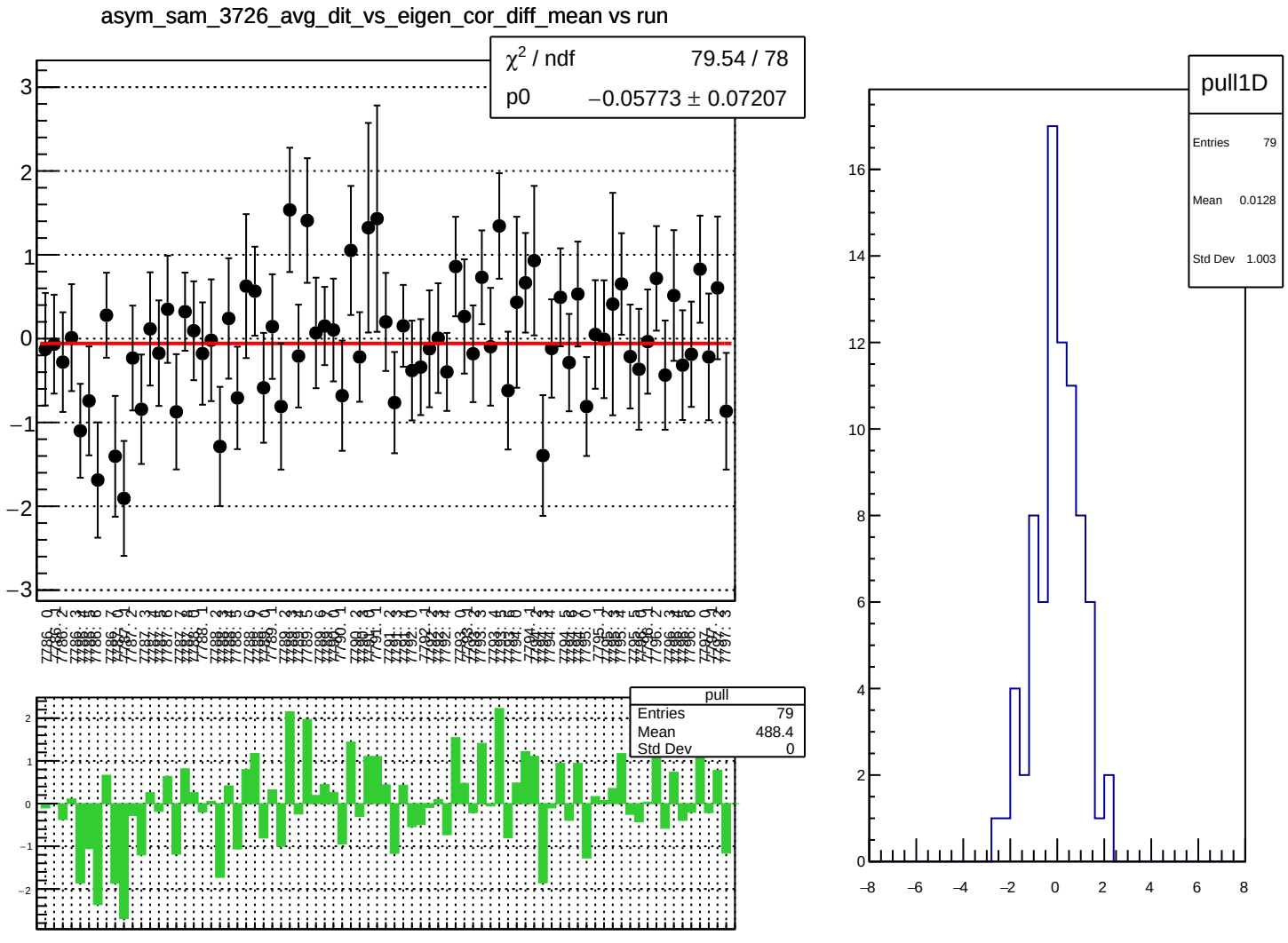

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.5 / 78
p0 6.584e−14 ± 3.102e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 79
Mean 409.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

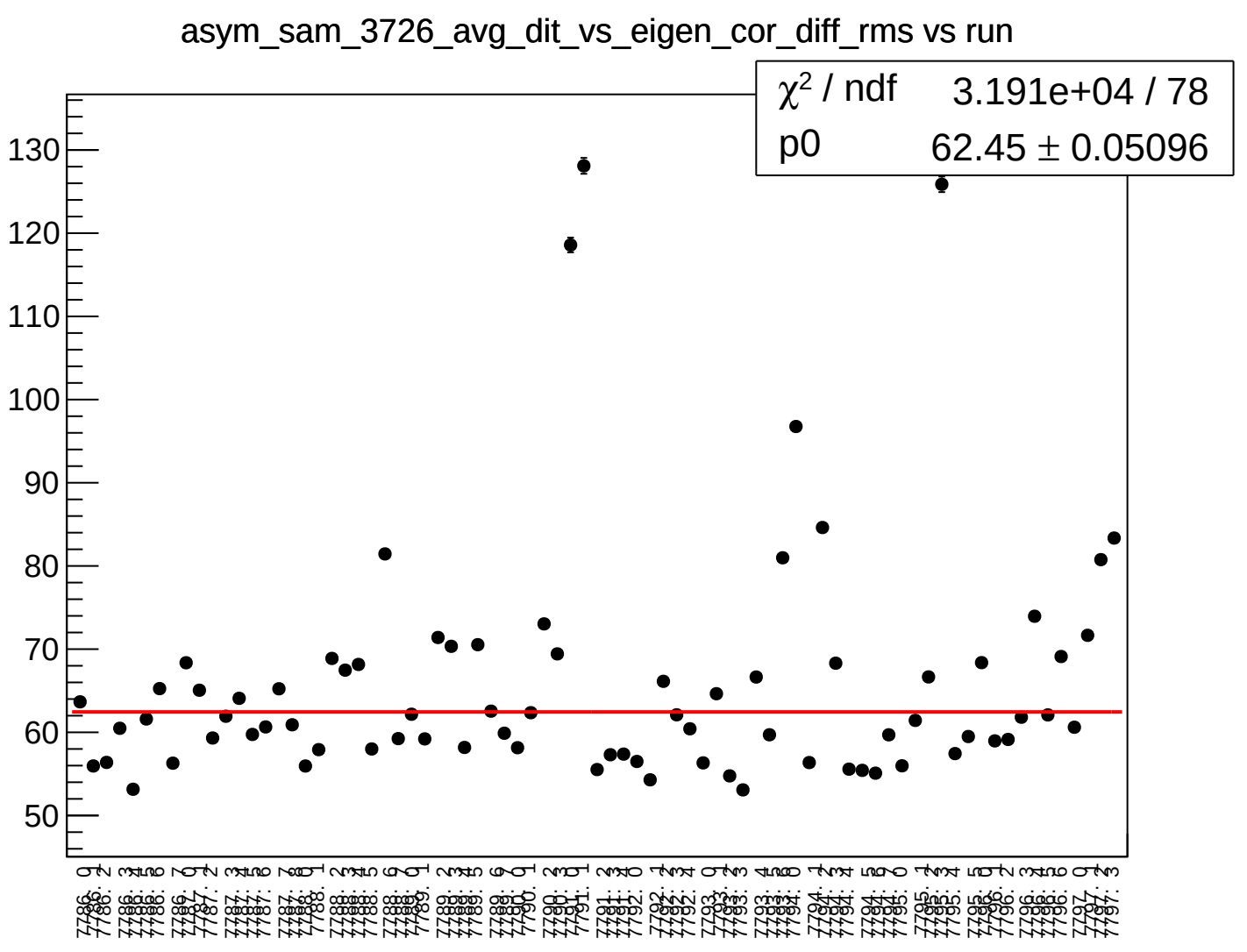

pull1D
Entries 79
Mean −0.0132
Std Dev 0.8894
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

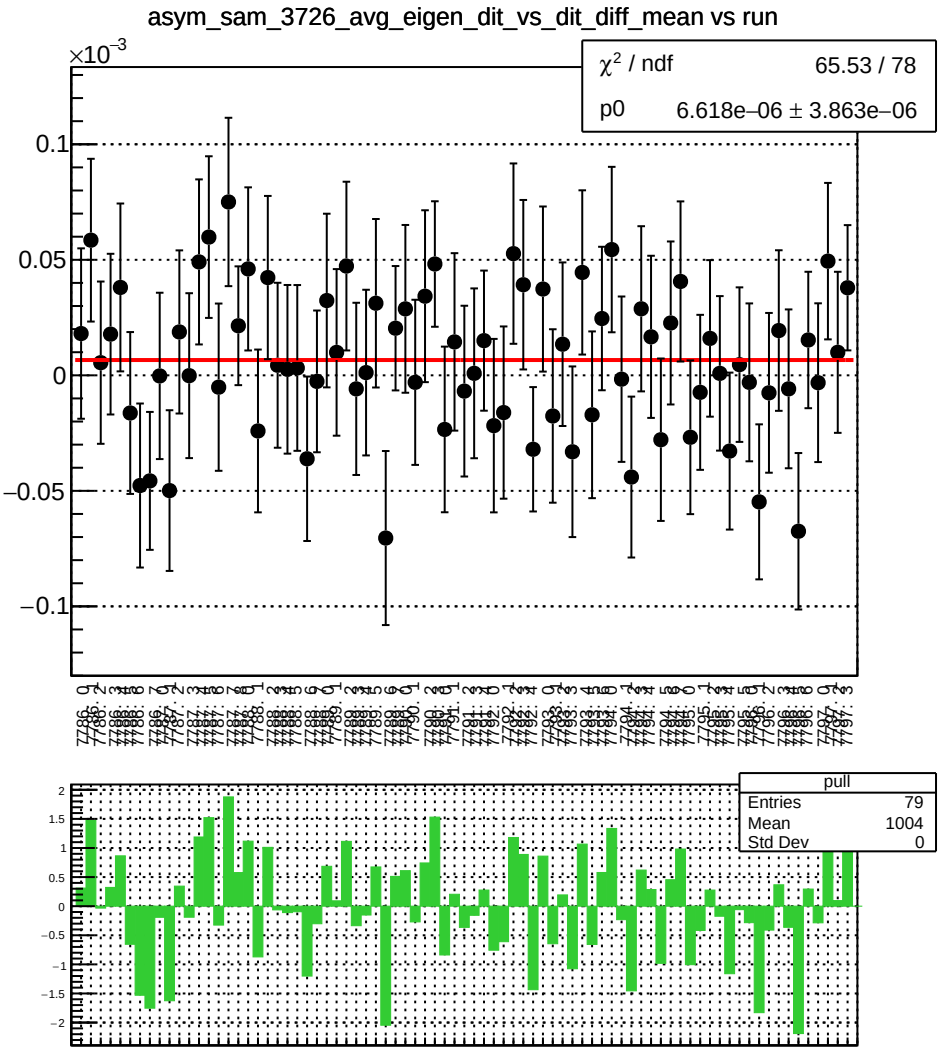

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.838e+05 / 78
p0 2.022e−10 ± 2.193e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

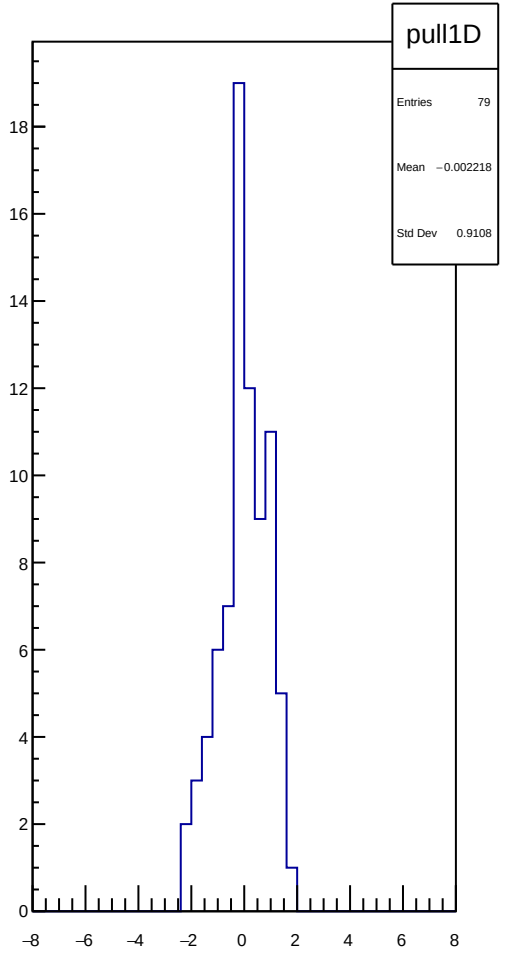

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.54 / 78
p0 −0.05773 ± 0.07207
pull
Entries 79
Mean 488.4
Std Dev 0
pull1D
Entries 79
Mean 0.0128
Std Dev 1.003

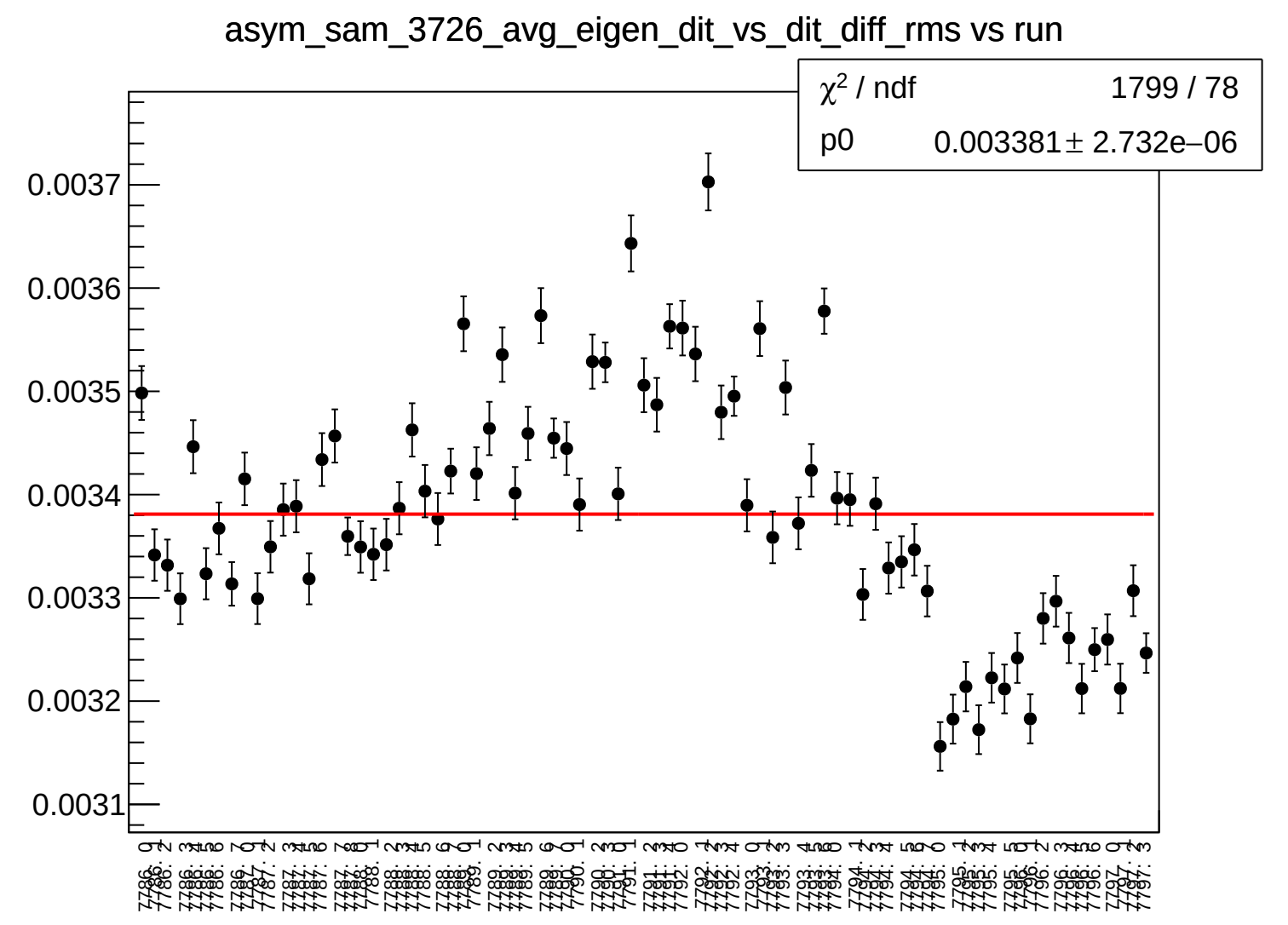

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.191e+04 / 78
p0 62.45 ± 0.05096
130
120
110
100
90
80
70
60
50

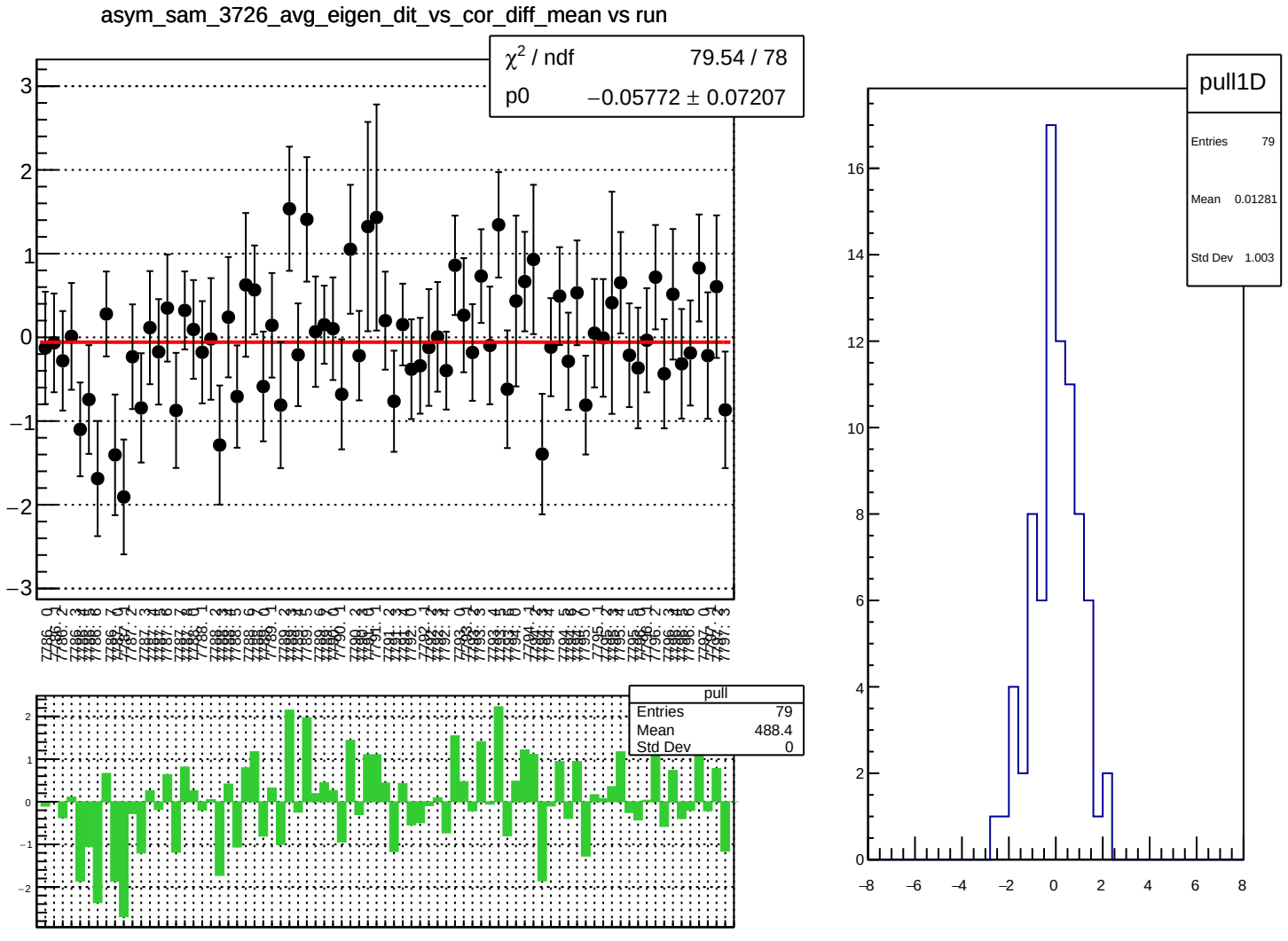

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.54 / 78
p0 −0.05773 ± 0.07207
pull
Entries 79
Mean 488.4
Std Dev 0
pull1D
Entries 79
Mean 0.0128
Std Dev 1.003

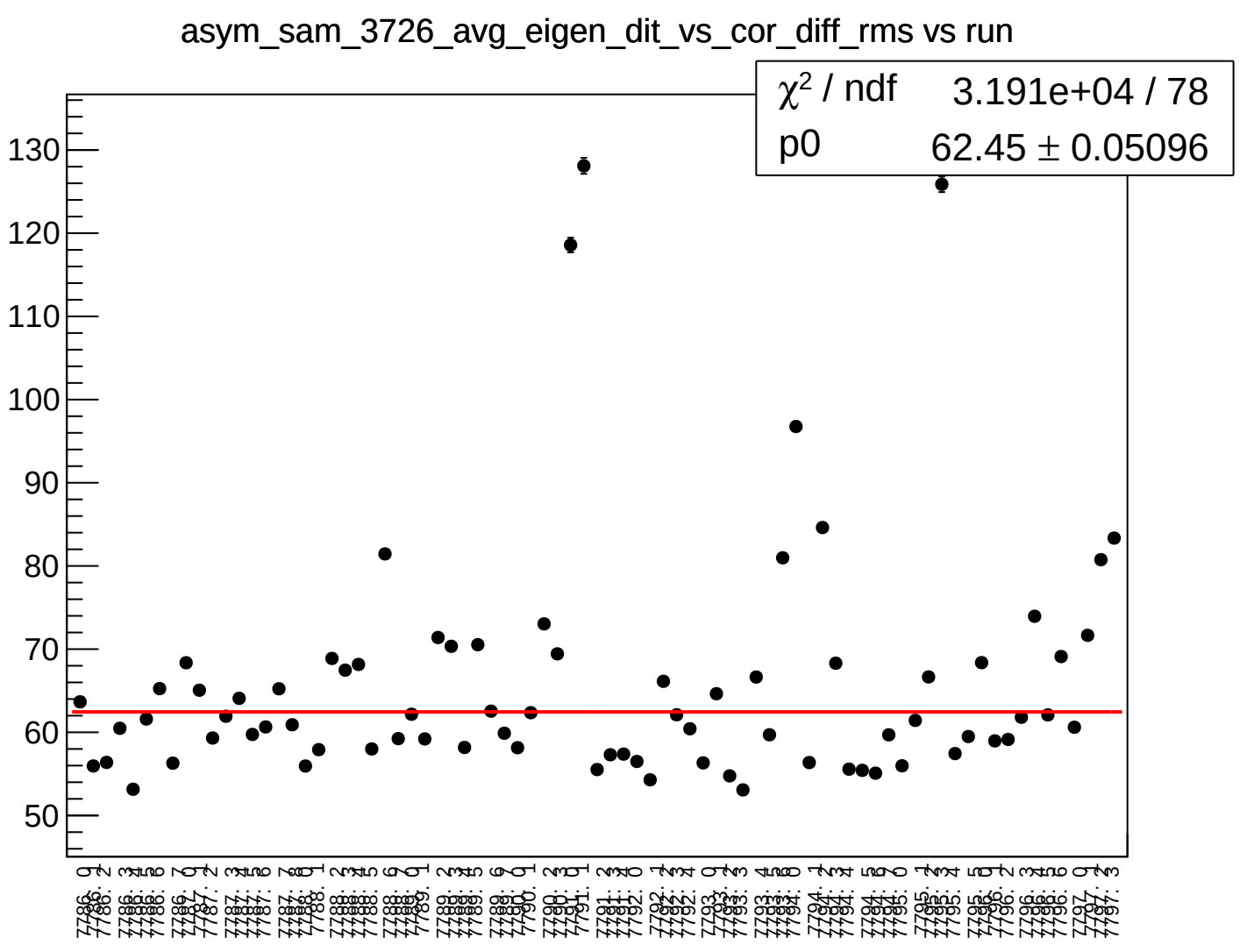

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.191e+04 / 78
p0 62.45 ± 0.05096
130
120
110
100
90
80
70
60
50

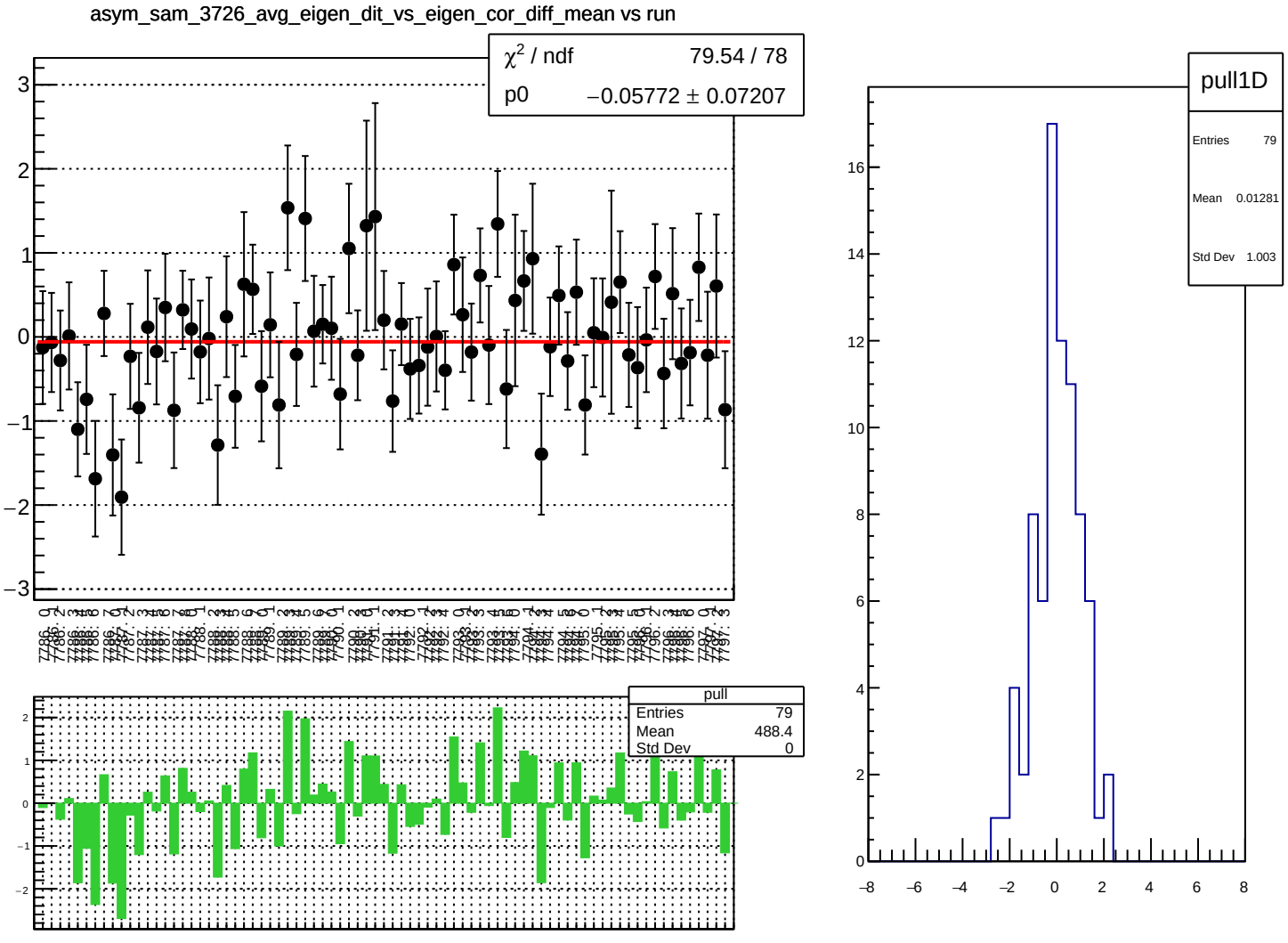

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.53 / 78
p0 6.618e−06 ± 3.863e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 79
Mean 1004
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

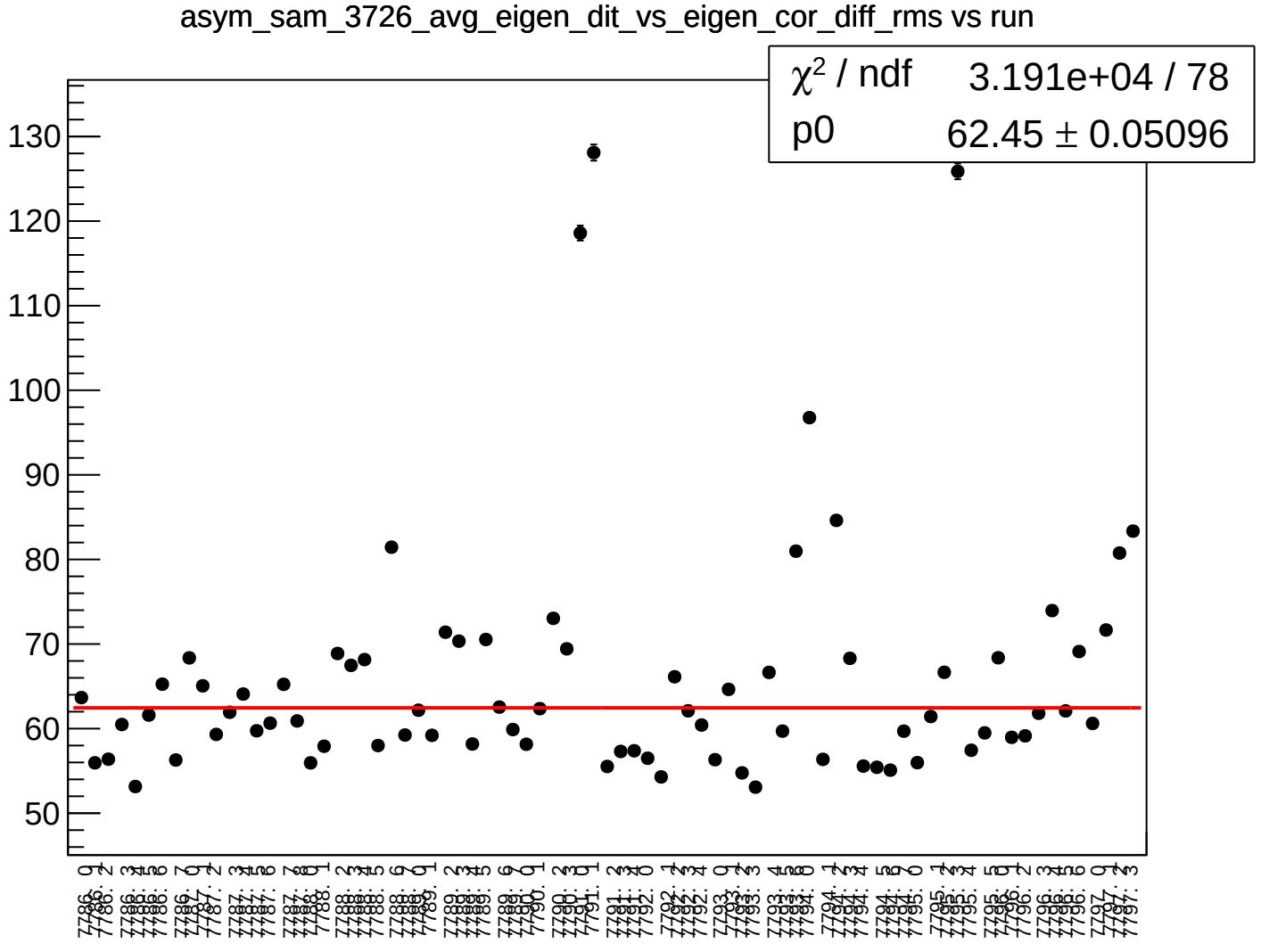

pull1D
Entries 79
Mean −0.002218
Std Dev 0.9108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

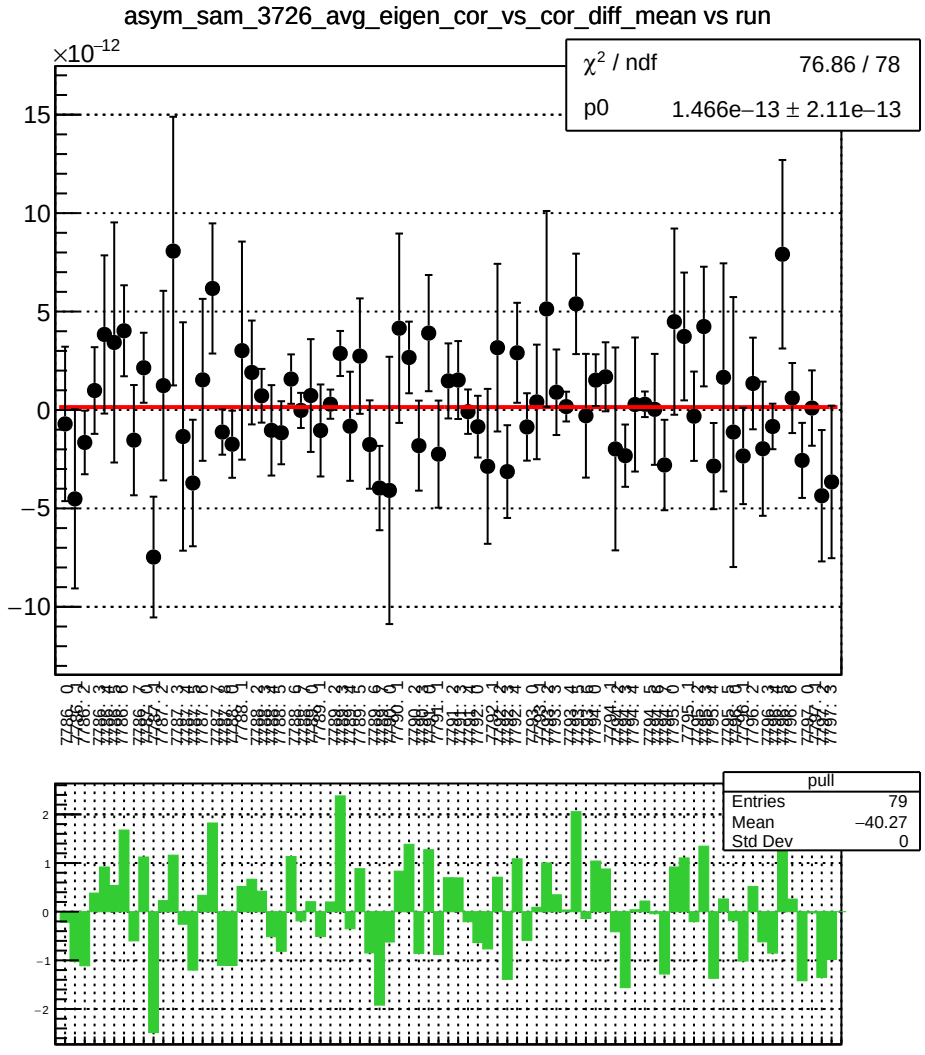

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1799 / 78
p0 0.003381 ± 2.732e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031

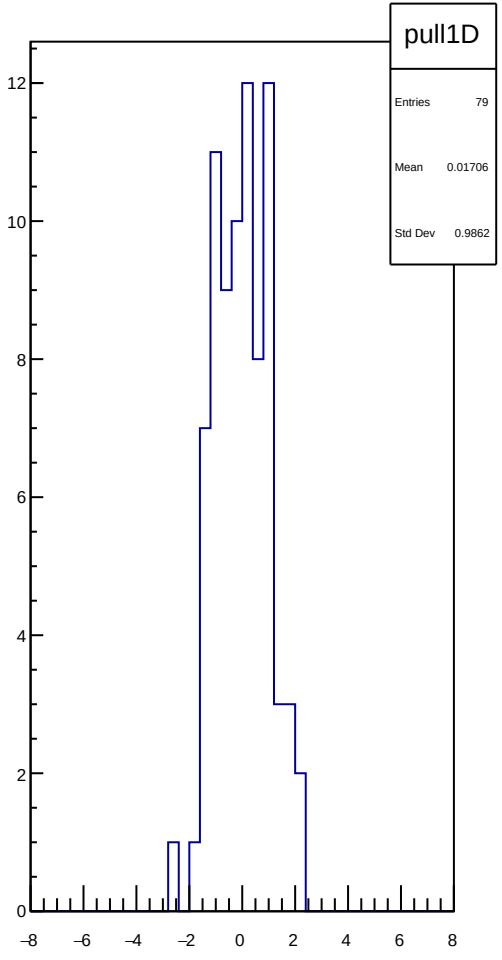

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.54 / 78
p0 −0.05772 ± 0.07207
pull
Entries 79
Mean 488.4
Std Dev 0
pull1D
Entries 79
Mean 0.01281
Std Dev 1.003

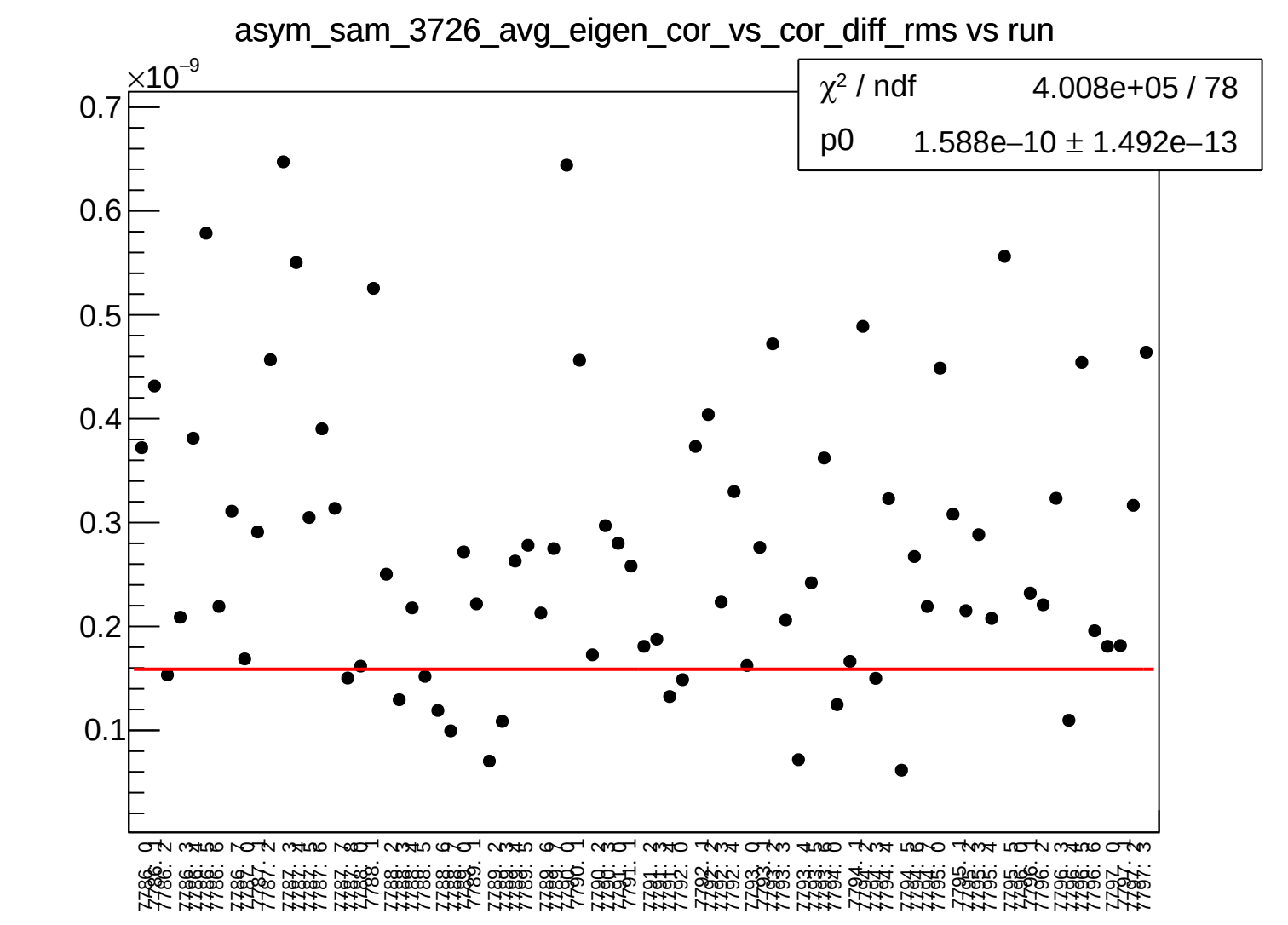

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.191e+04 / 78
p0 62.45 ± 0.05096
130
120
110
100
90
80
70
60
50

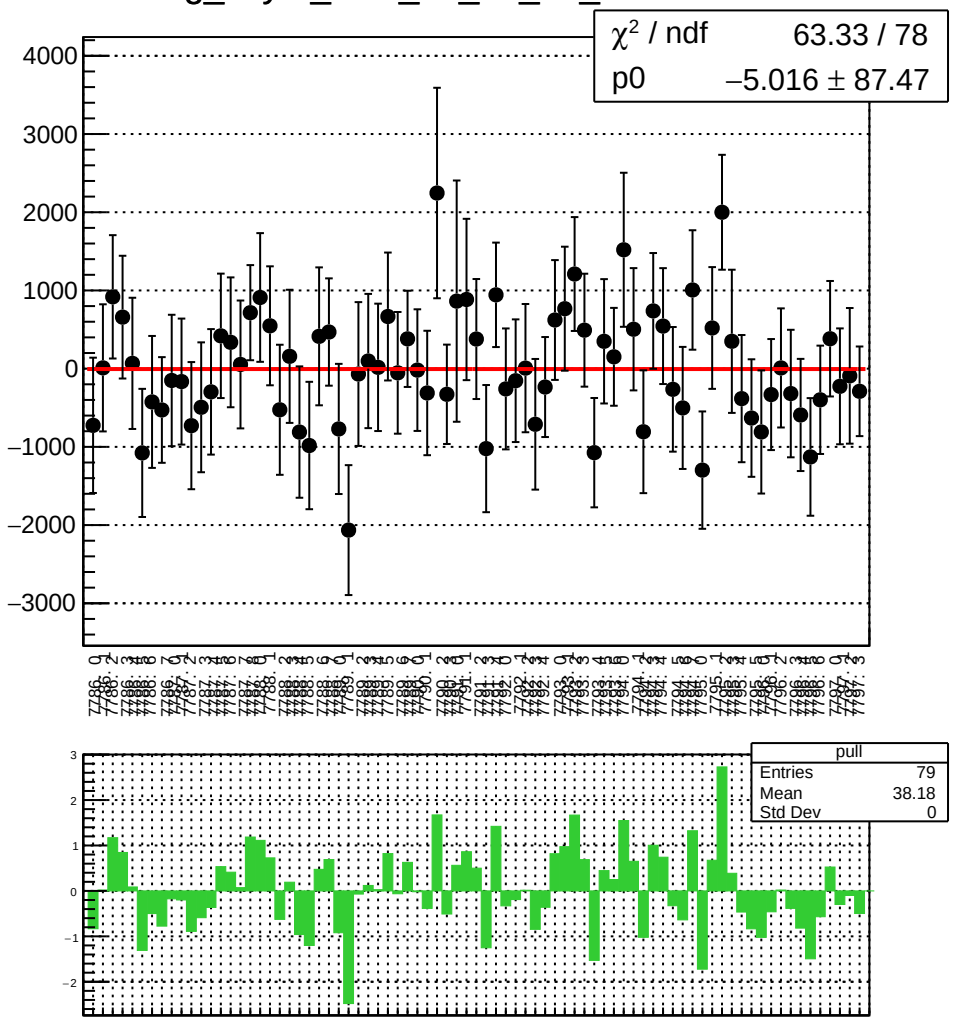

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.54 / 78
p0 −0.05772 ± 0.07207
pull
Entries 79
Mean 488.4
Std Dev 0
pull1D
Entries 79
Mean 0.01281
Std Dev 1.003

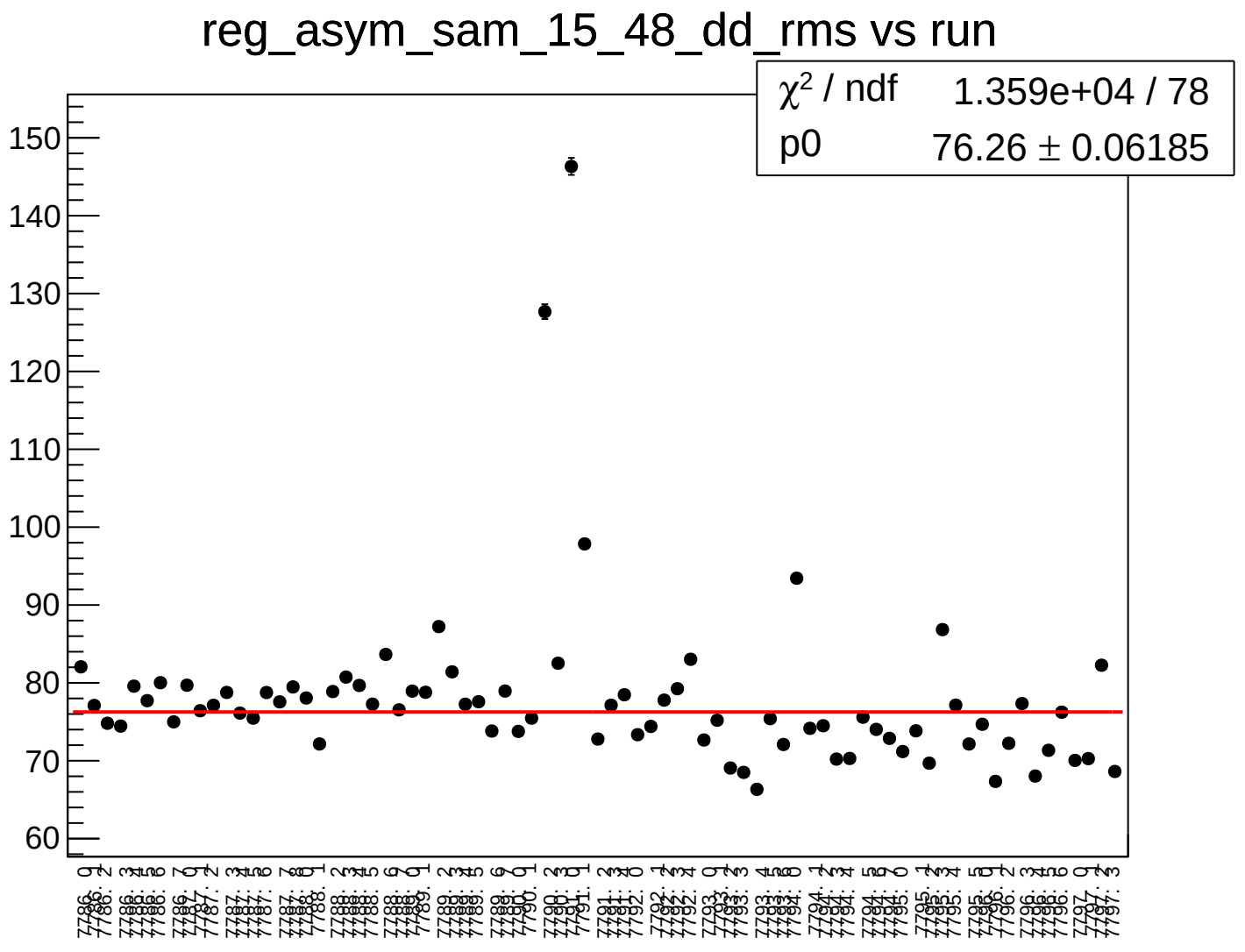

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.191e+04 / 78
p0 62.45 ± 0.05096
130
120
110
100
90
80
70
60
50

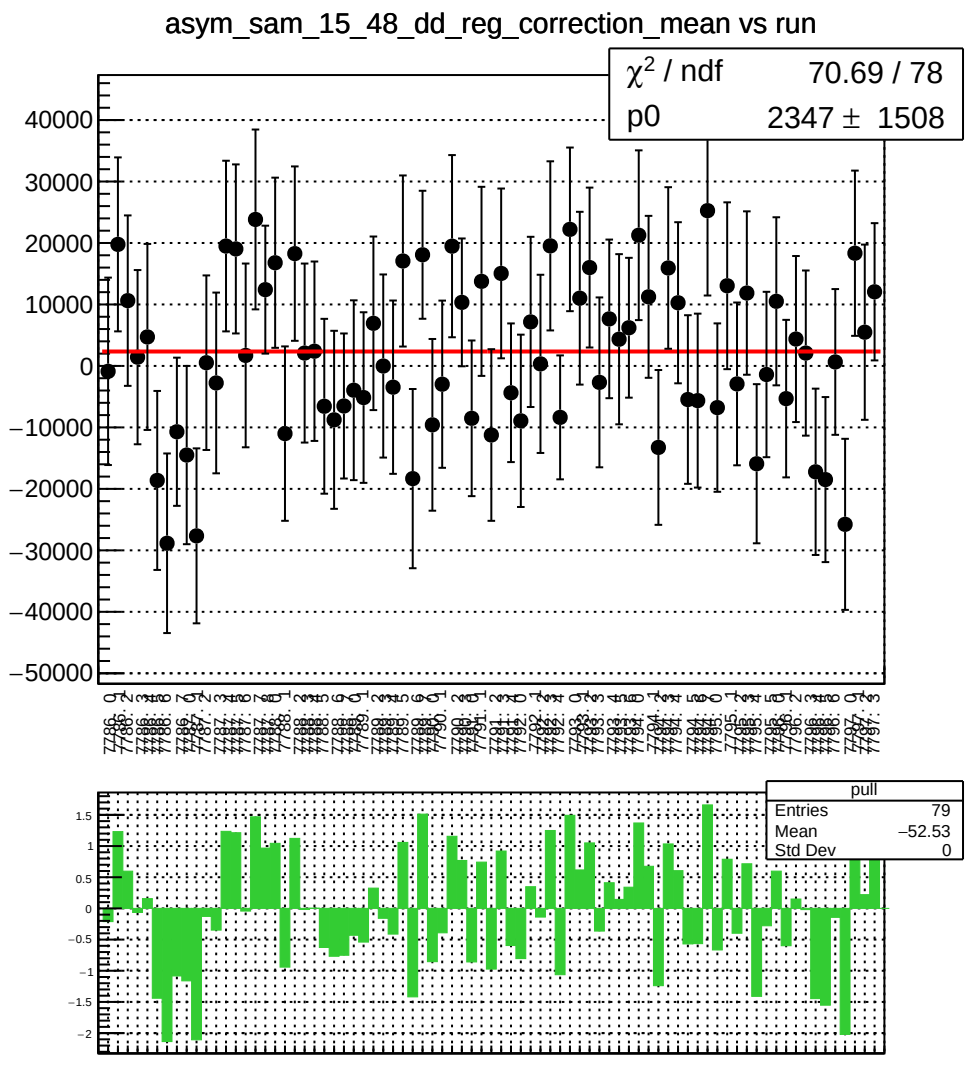

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.86 / 78
p0 1.466e−13 ± 2.11e−13
pull
Entries 79
Mean −40.27
Std Dev 0

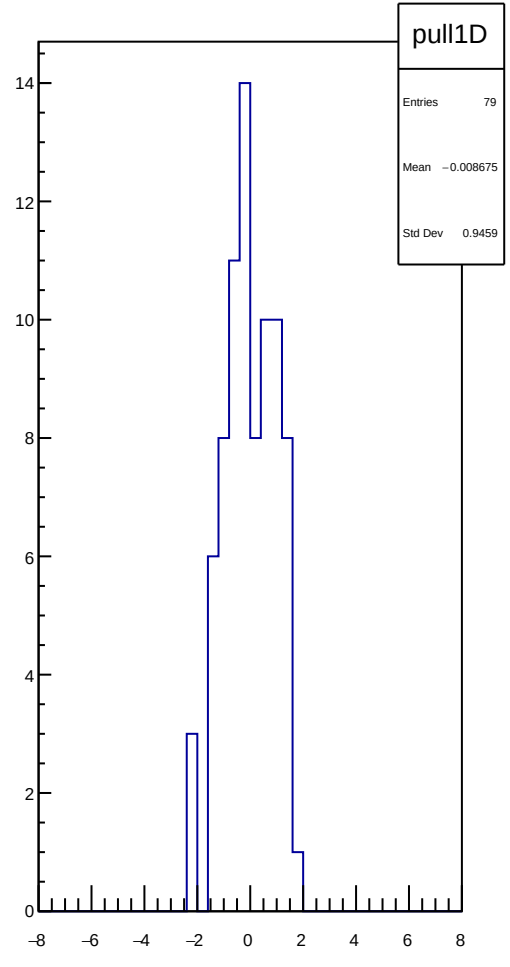

pull1D
Entries 79
Mean 0.01706
Std Dev 0.9862

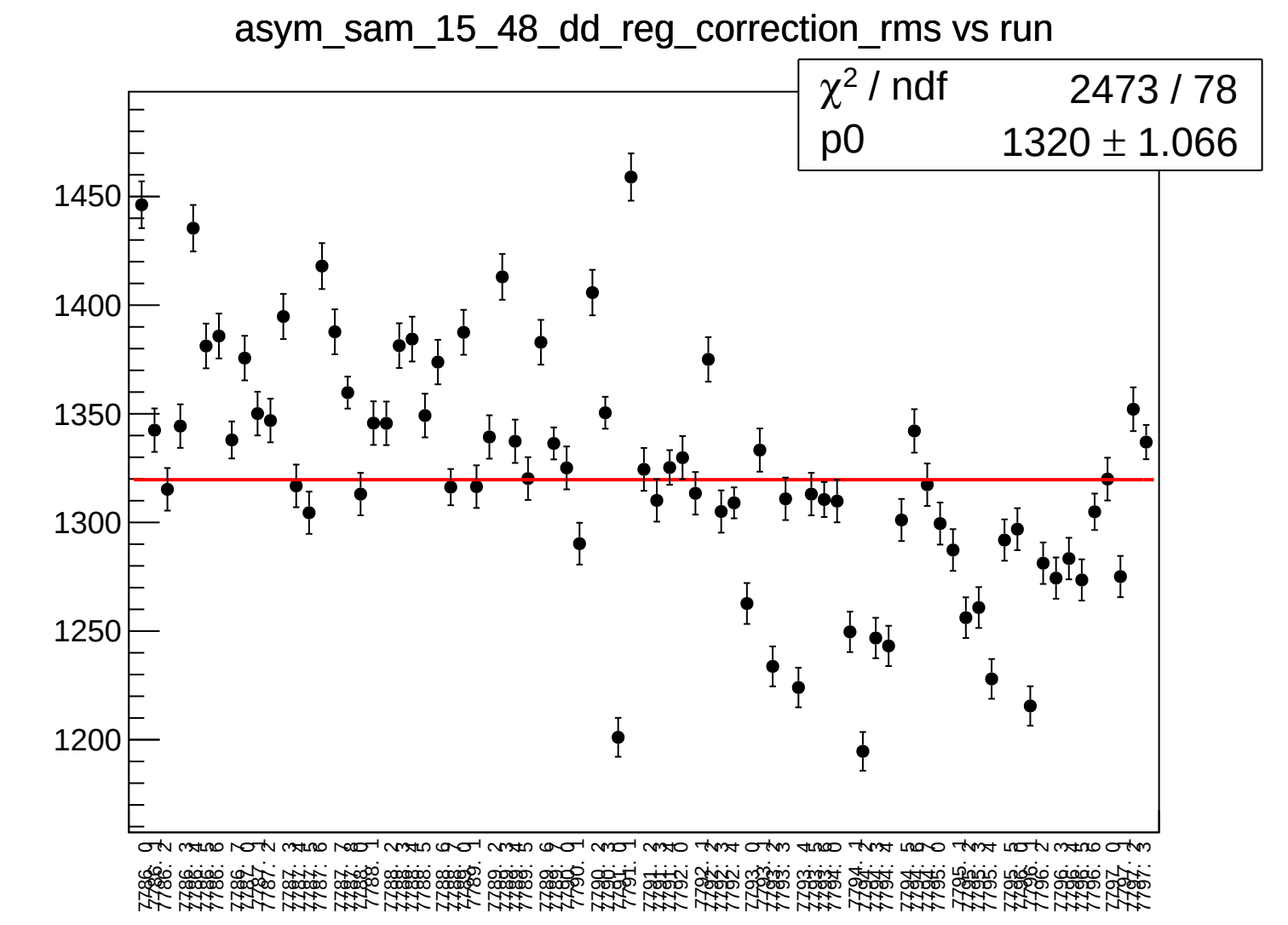

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.008e+05 / 78
p0 1.588e−10 ± 1.492e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

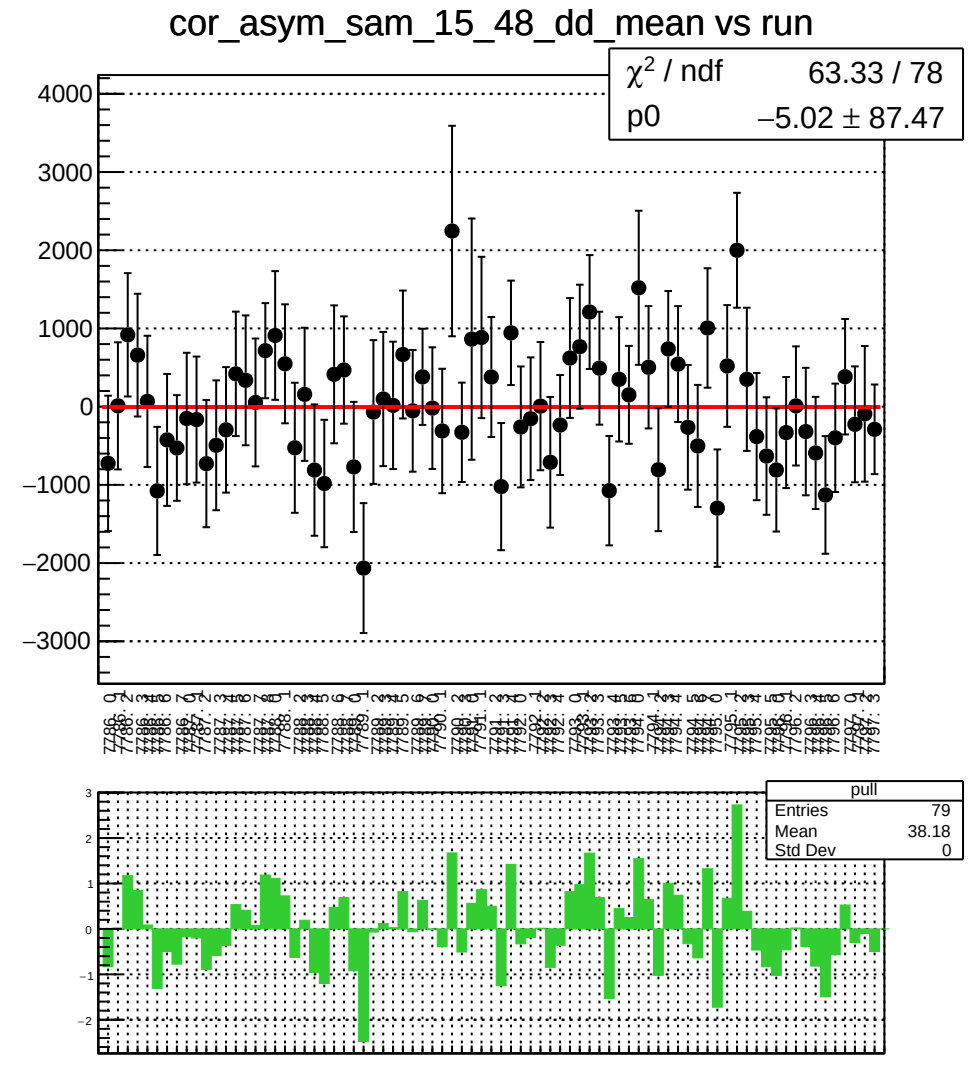

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 63.33 / 78
p0 −5.016 ± 87.47
pull
Entries 79
Mean 38.18
Std Dev 0
pull1D
Entries 79
Mean 0.007506
Std Dev 0.8953

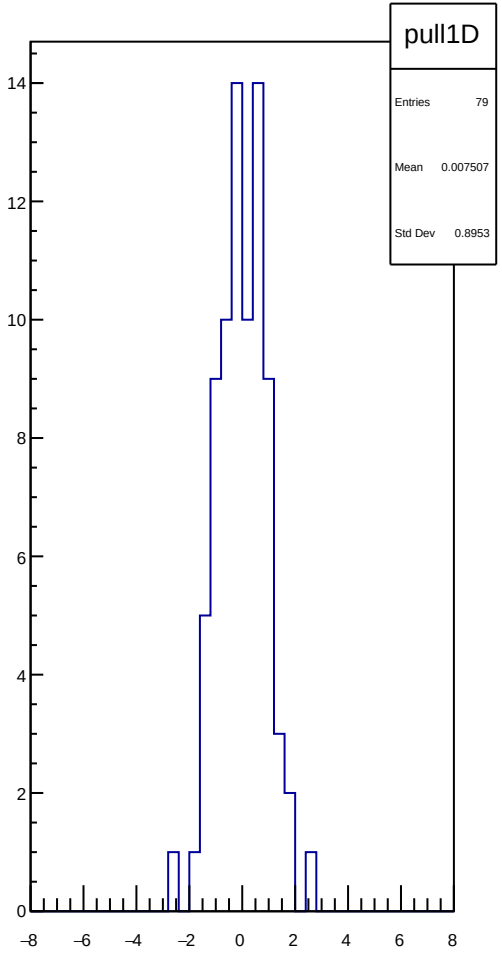

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.359e+04 / 78
p0 76.26 ± 0.06185
150
140
130
120
110
100
90
80
70
60

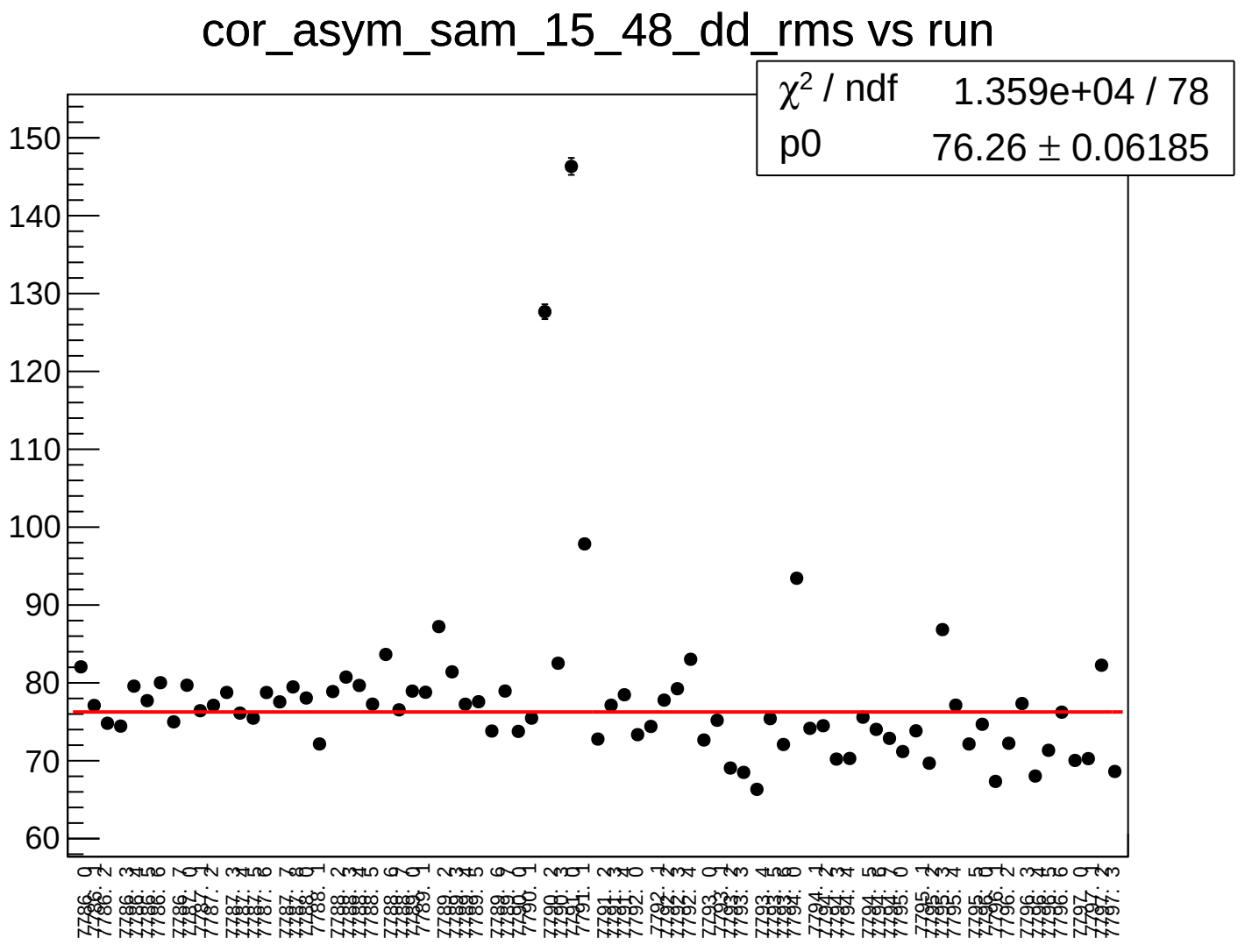

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 70.69 / 78
p0 2347 ± 1508
pull
Entries 79
Mean −52.53
Std Dev 0

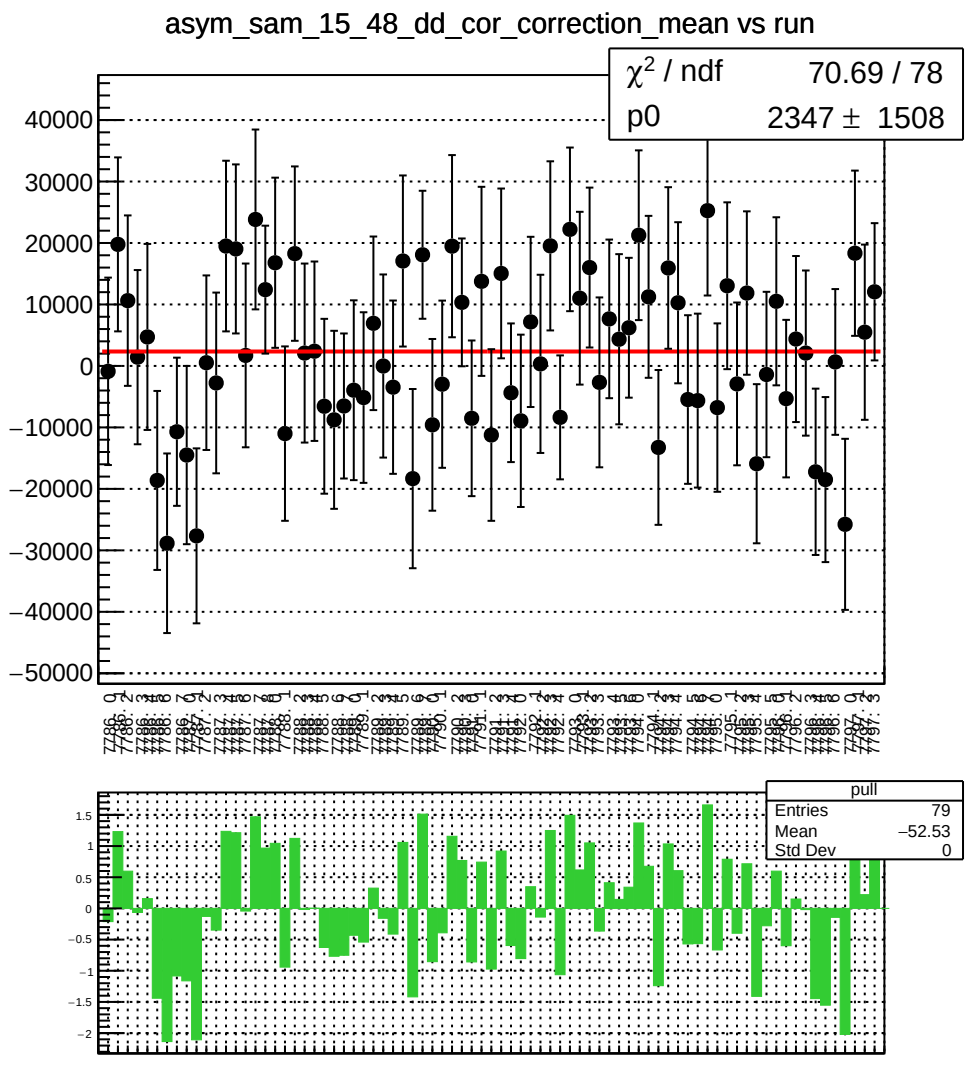

pull1D
Entries 79
Mean −0.008675
Std Dev 0.9459

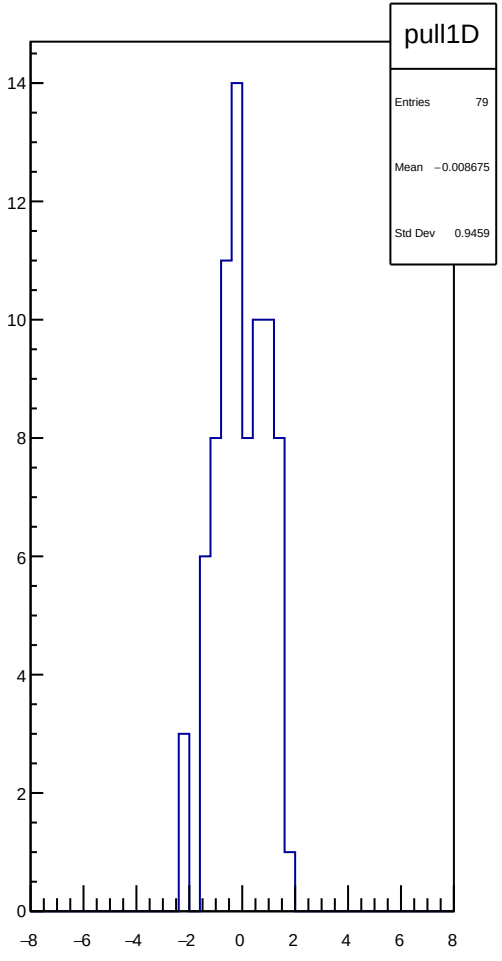

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 2473 / 78
p0 1320 ± 1.066
1450
1400
1350
1300
1250
1200

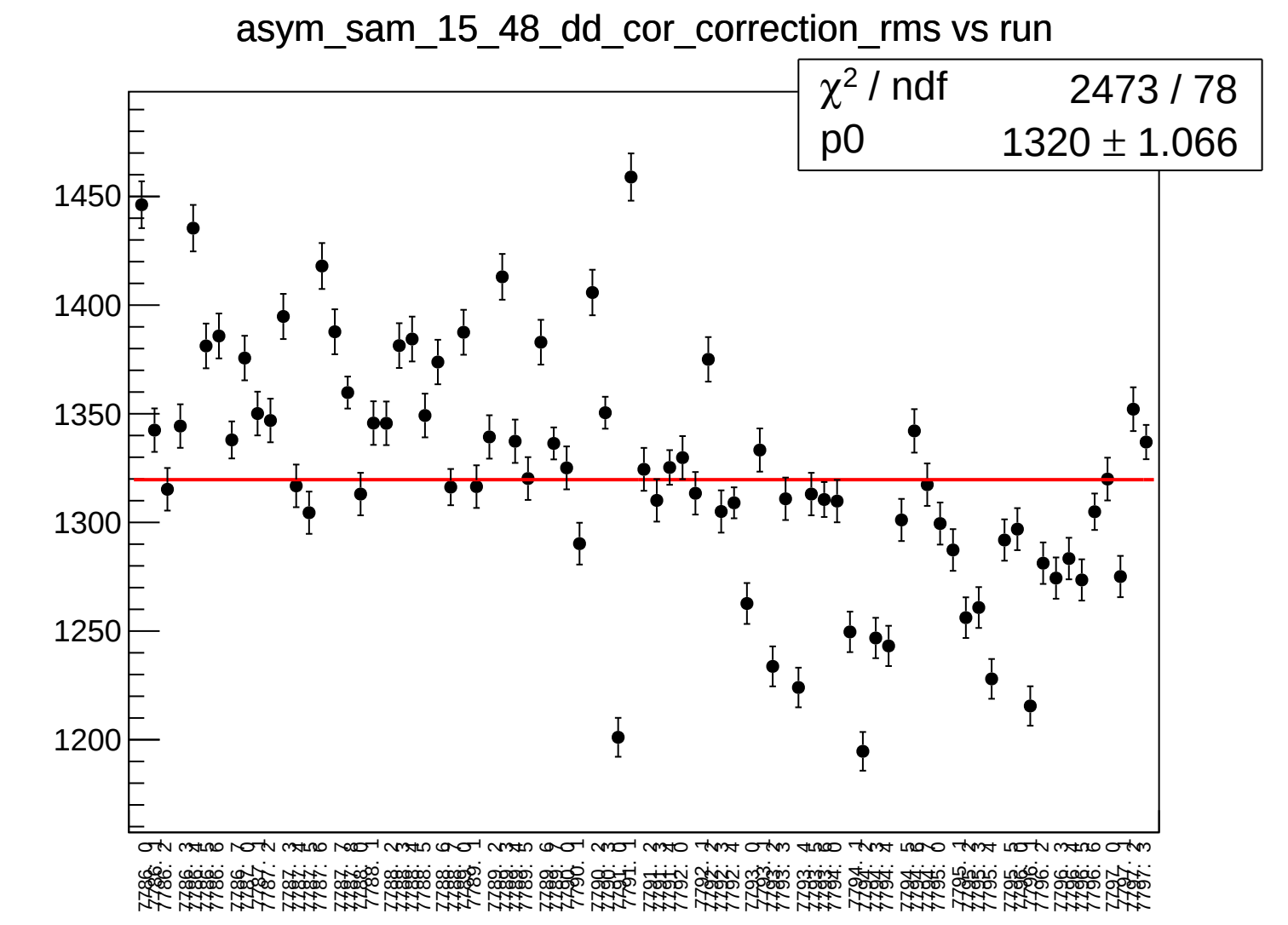

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 63.33 / 78
p0 −5.02 ± 87.47
pull
Entries 79
Mean 38.18
Std Dev 0

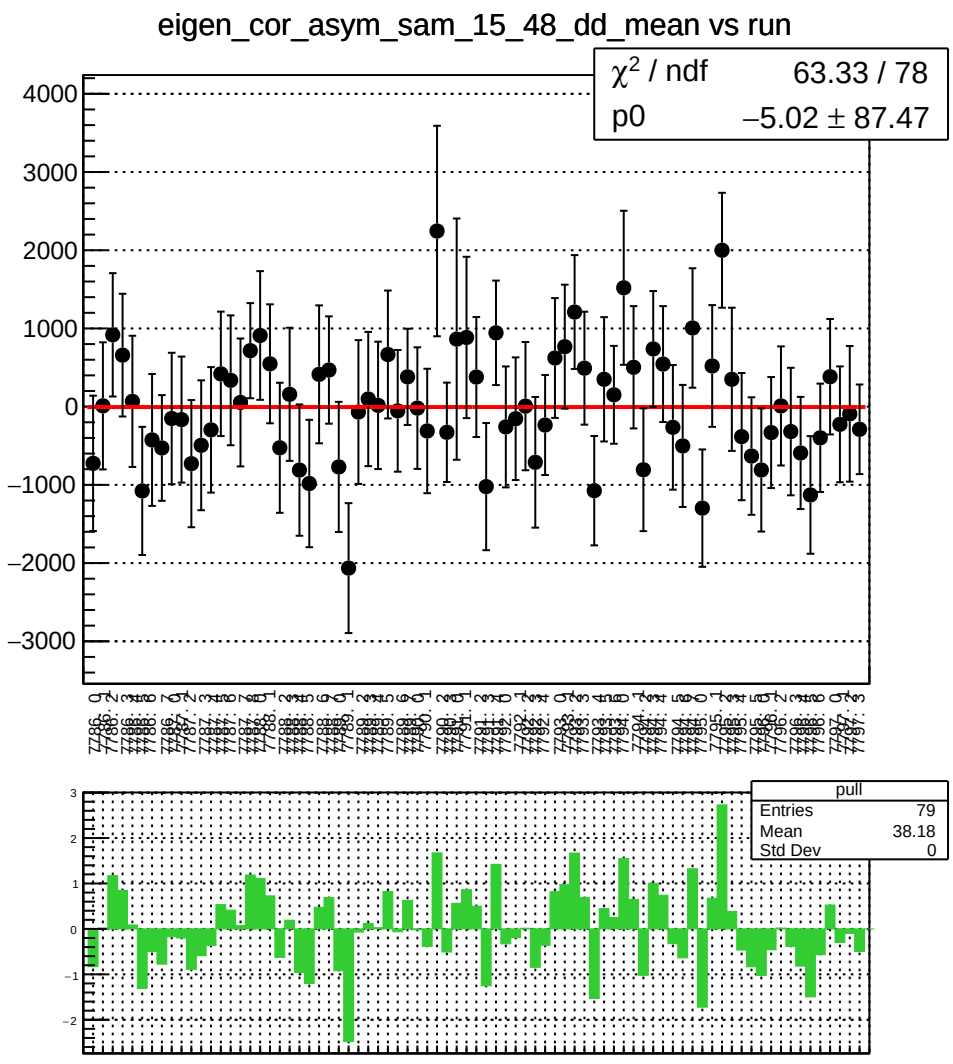

pull1D
Entries 79
Mean 0.007507
Std Dev 0.8953

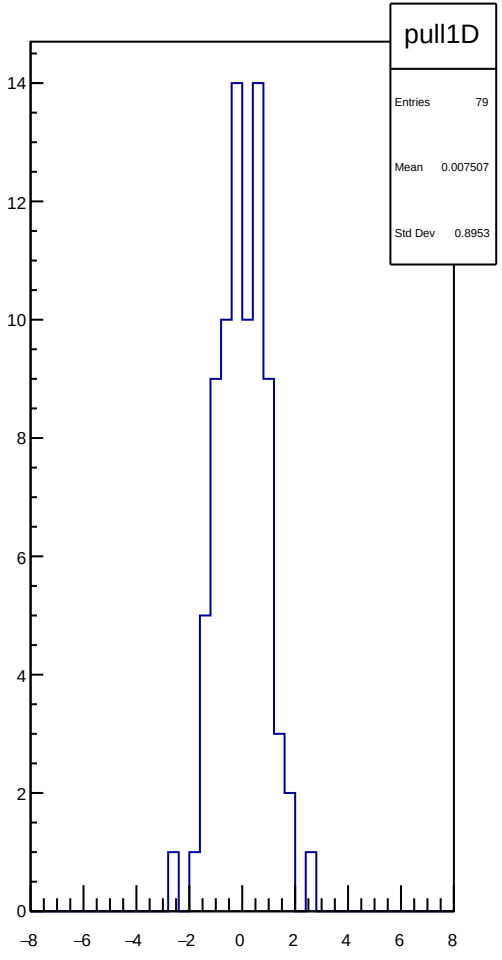

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.359e+04 / 78
p0 76.26 ± 0.06185
150
140
130
120
110
100
90
80
70
60

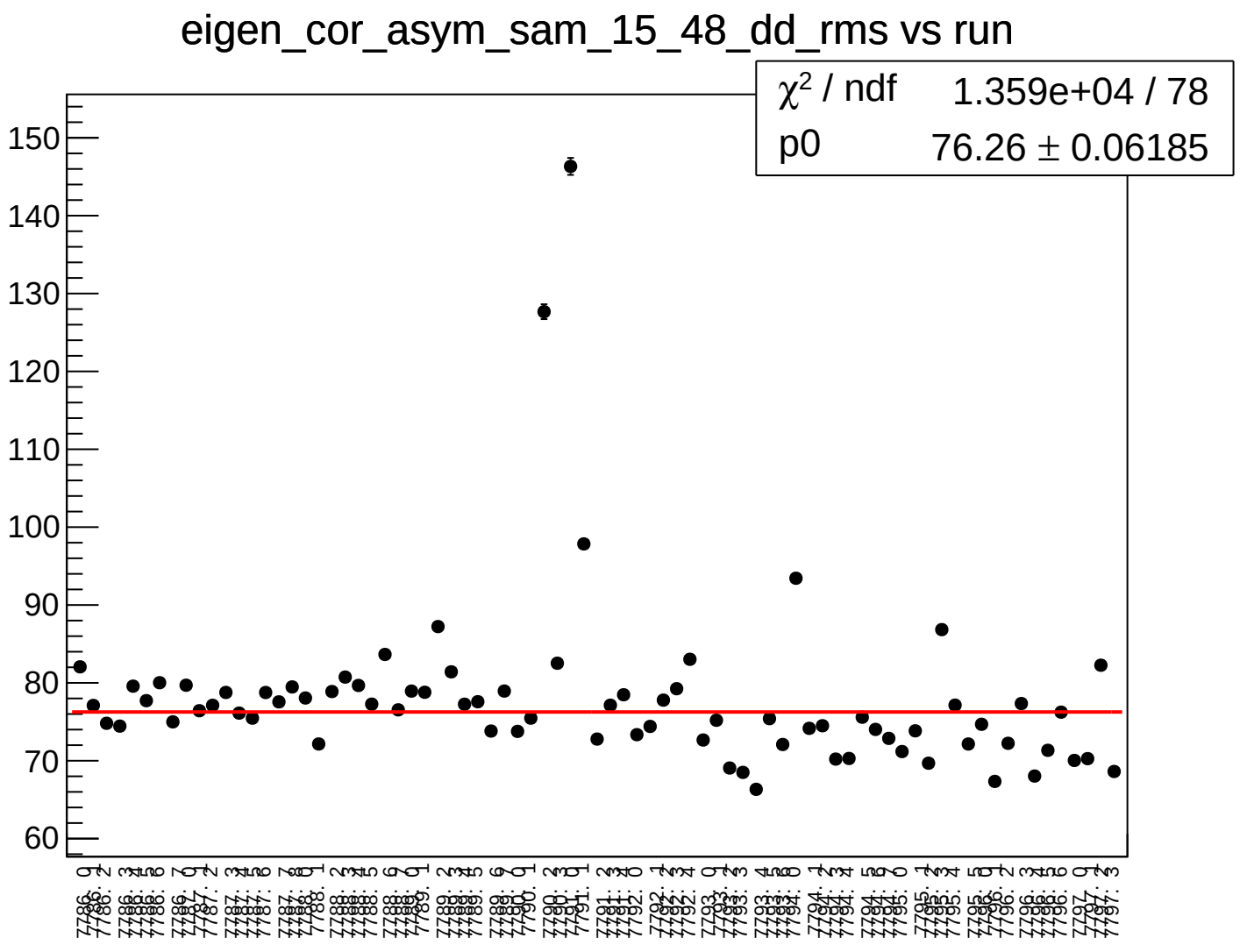

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 70.69 / 78
p0 2347 ± 1508
pull
Entries 79
Mean −52.53
Std Dev 0

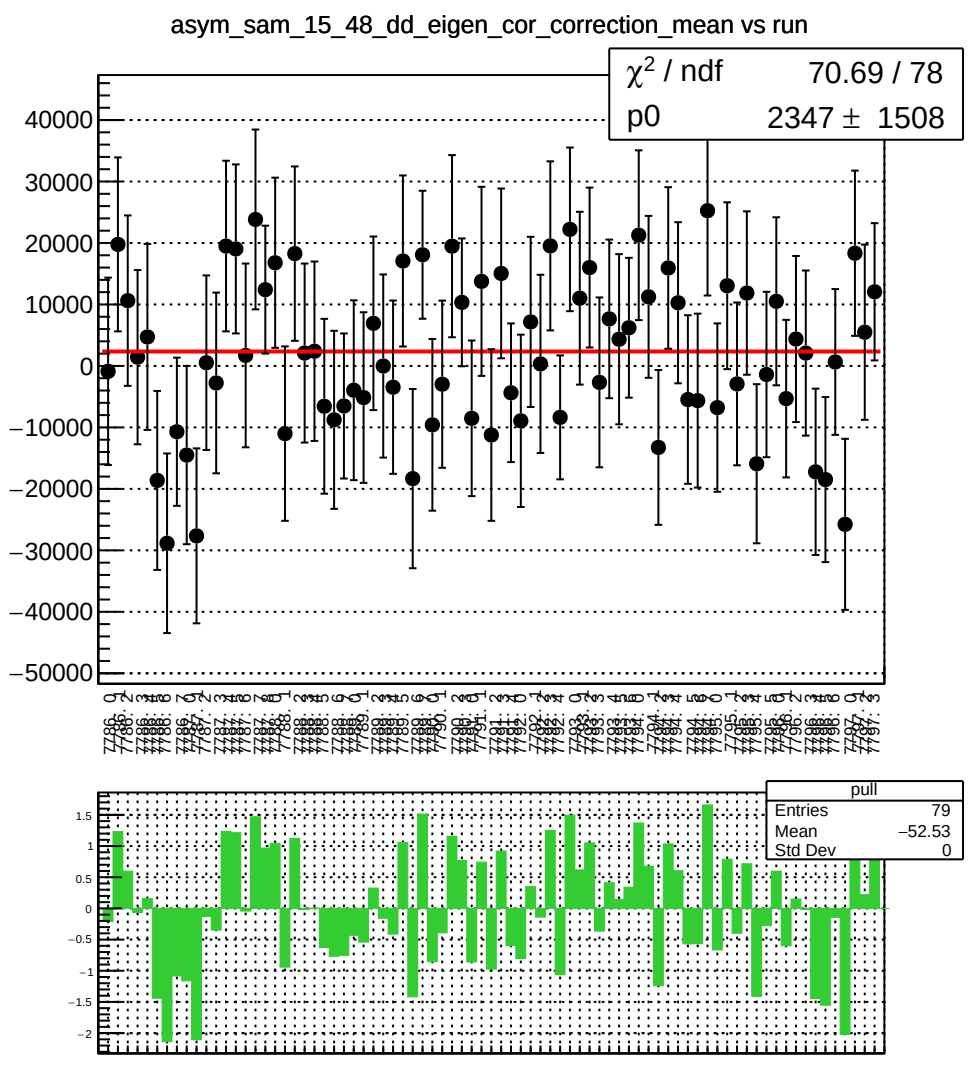

pull1D
Entries 79
Mean −0.008675
Std Dev 0.9459

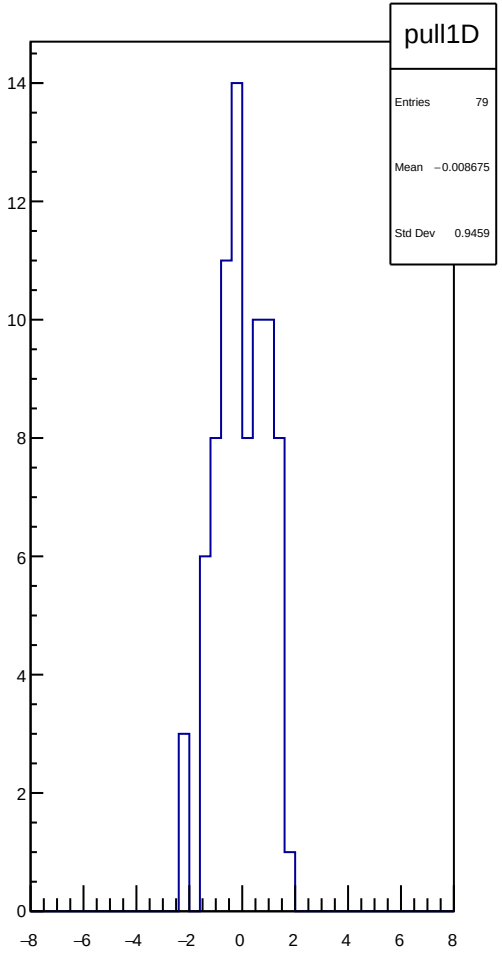

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 2473 / 78
p0 1320 ± 1.066
1450
1400
1350
1300
1250
1200

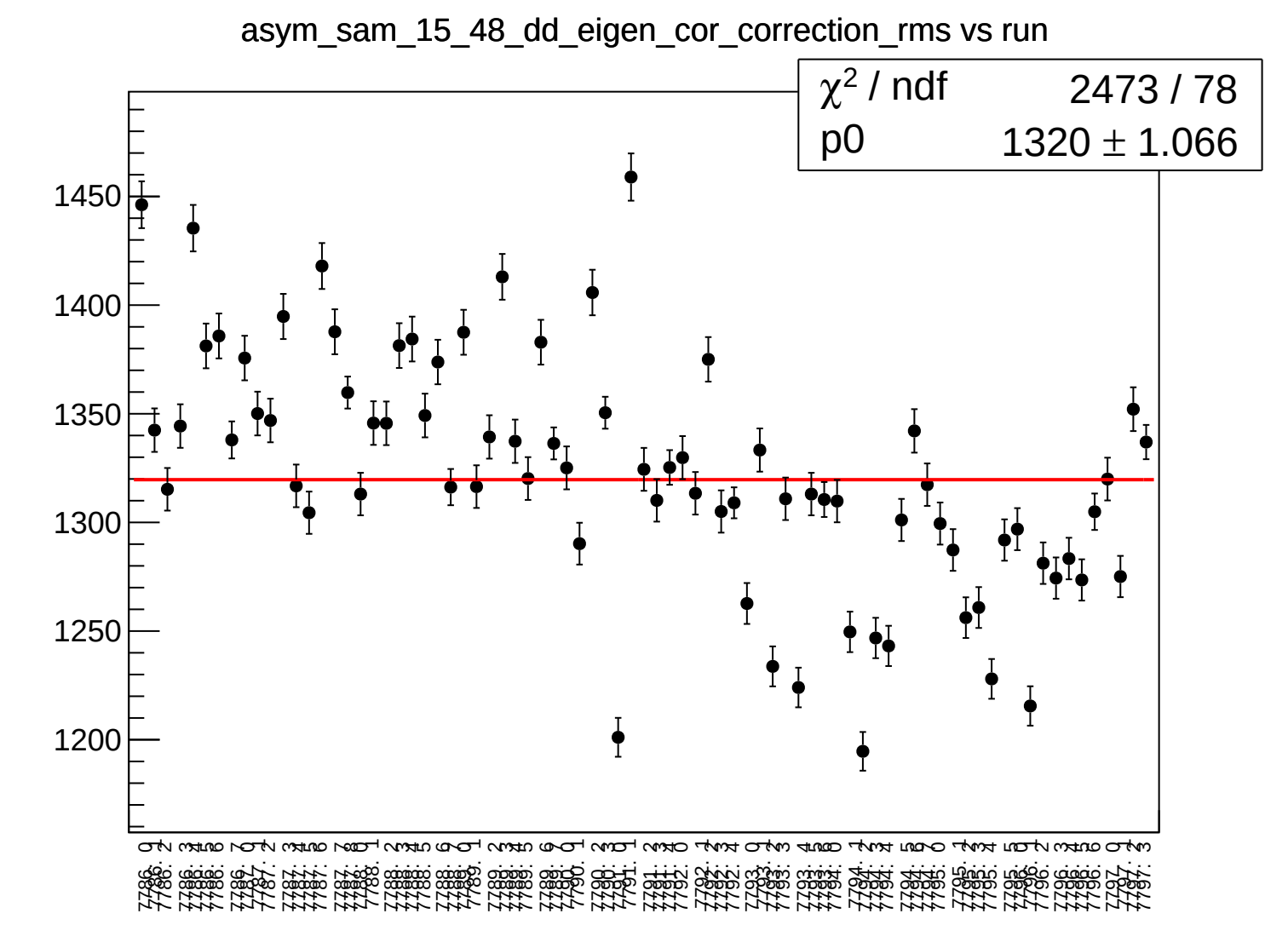

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 63.33 / 78
p0 −5.02 ± 87.47
pull
Entries 79
Mean 38.18
Std Dev 0

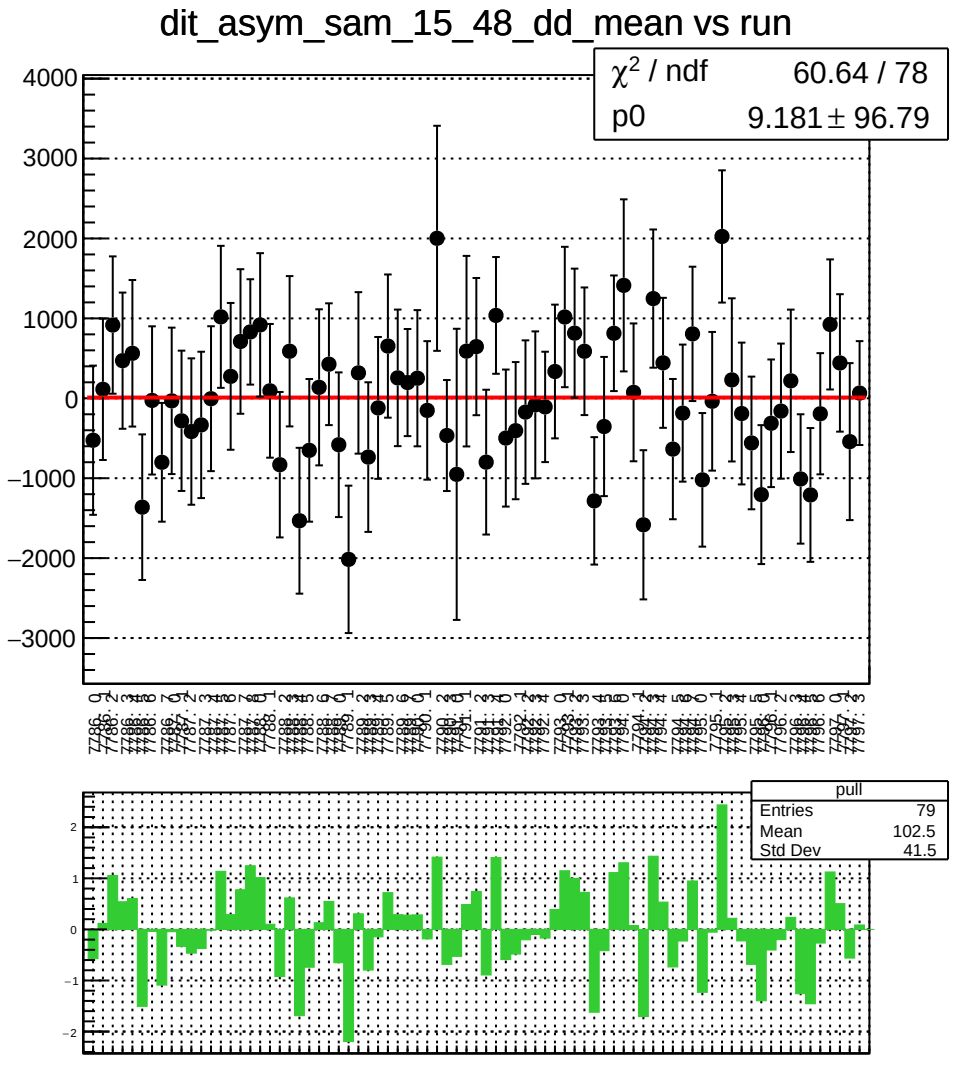

pull1D
Entries 79
Mean 0.007507
Std Dev 0.8953

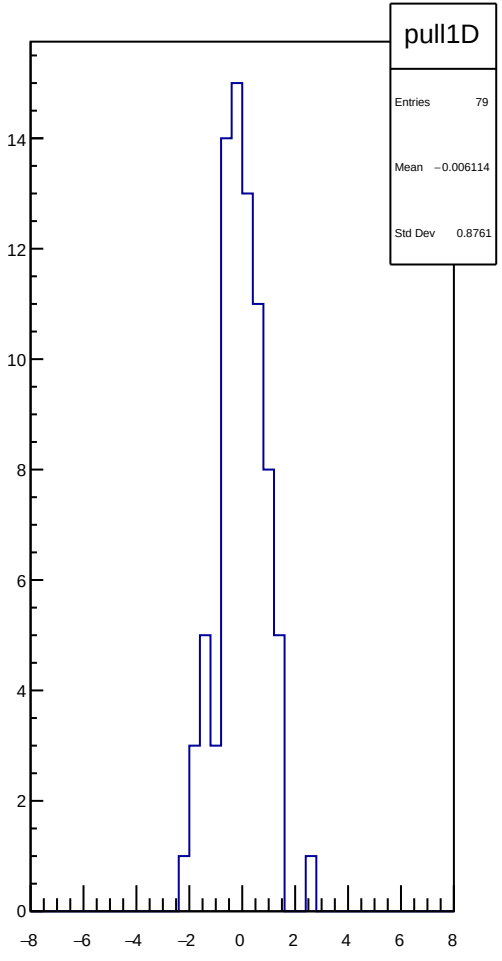

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.359e+04 / 78
p0 76.26 ± 0.06185
150
140
130
120
110
100
90
80
70
60

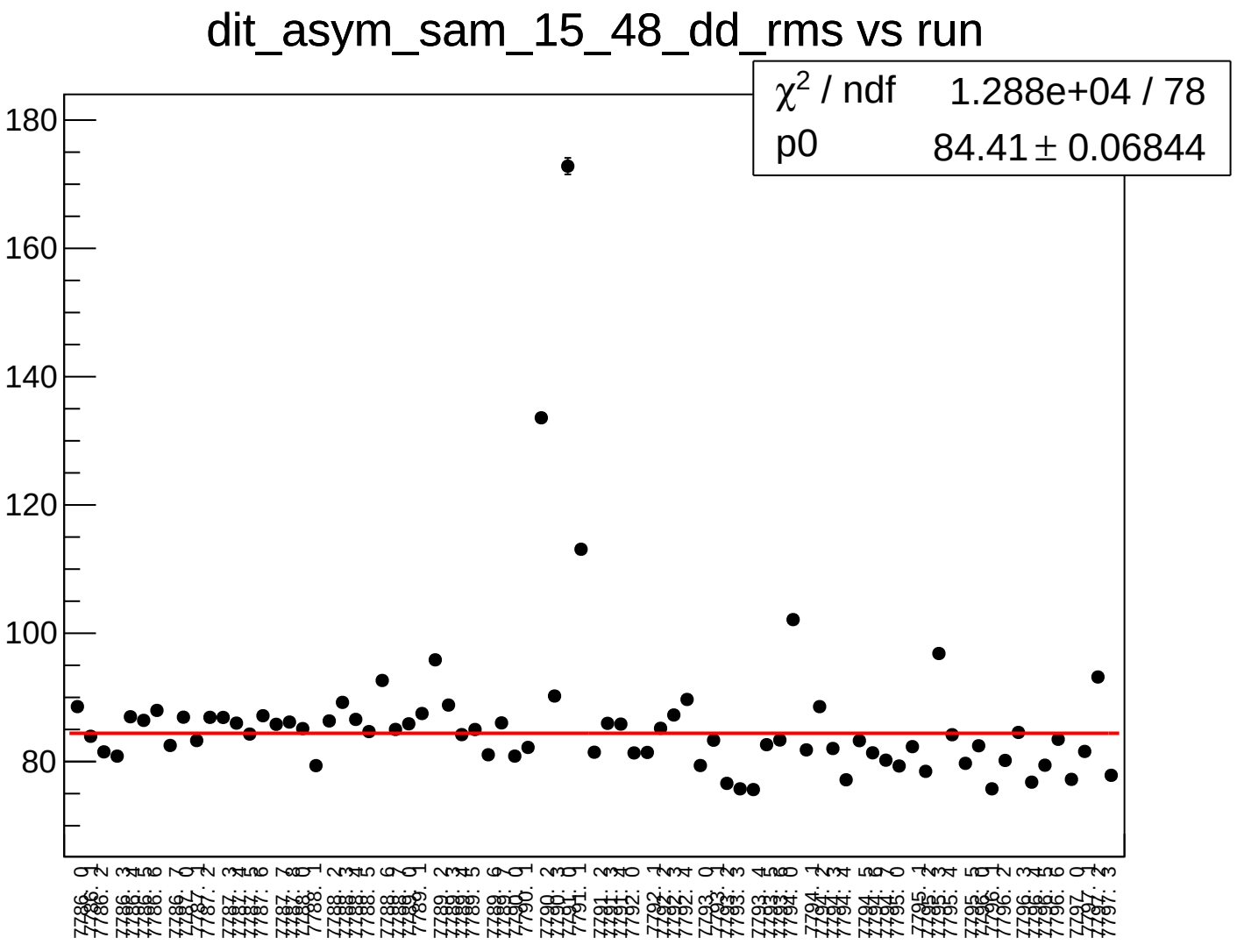

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.69 / 78
p0 2347 ± 1508
pull
Entries 79
Mean −52.53
Std Dev 0

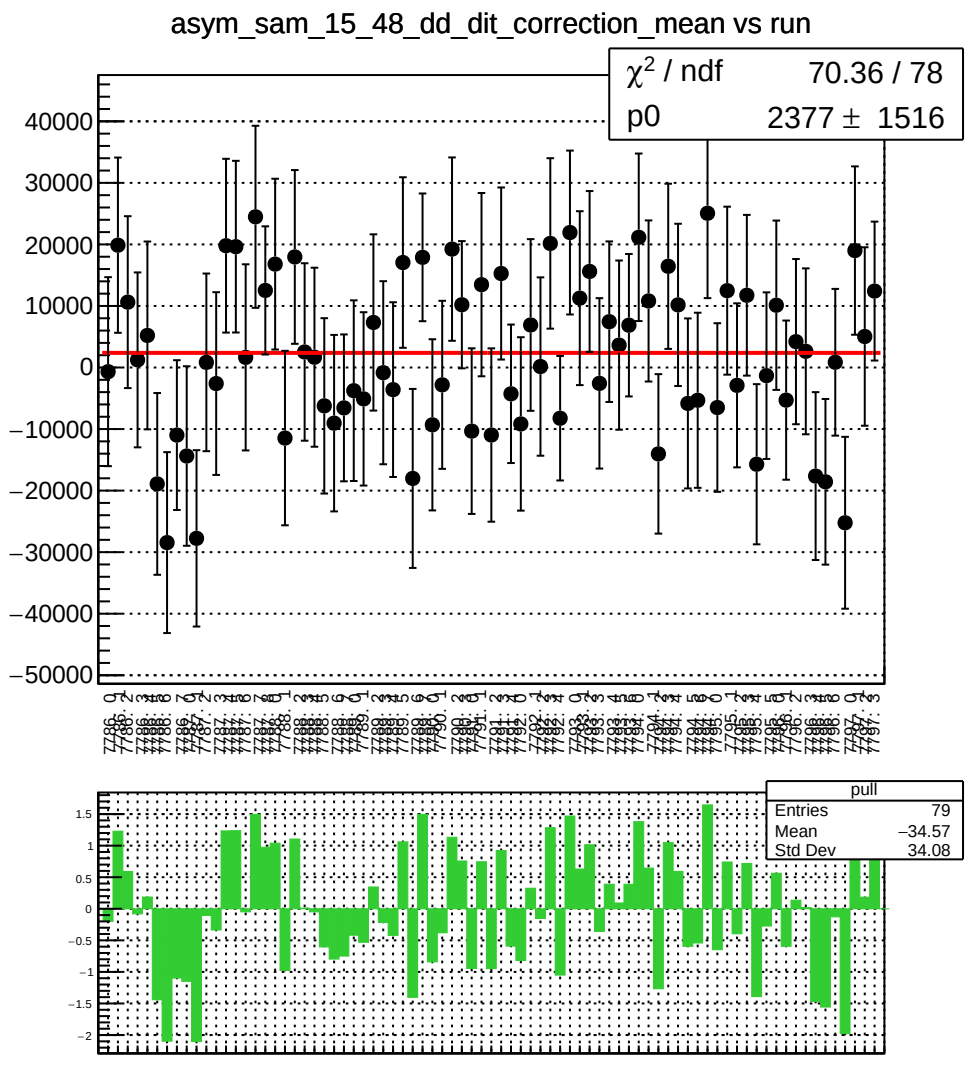

pull1D
Entries 79
Mean −0.008675
Std Dev 0.9459

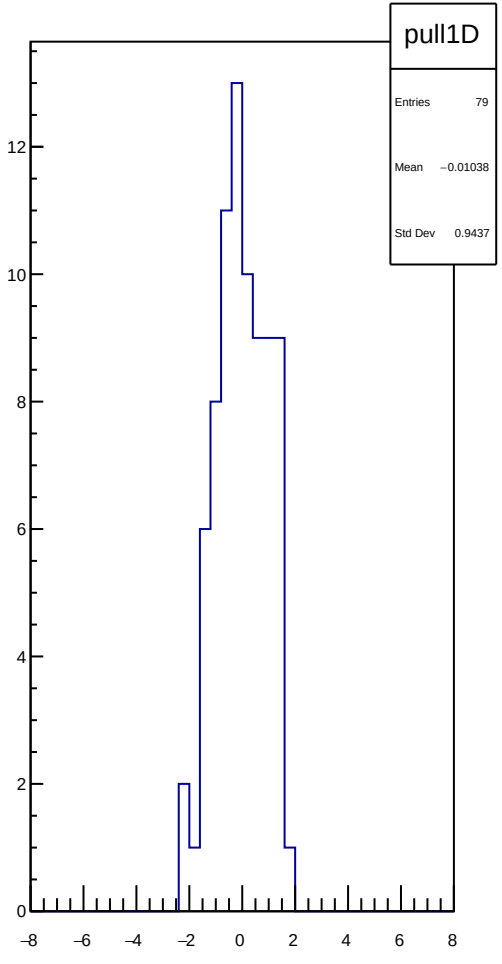

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2473 / 78
p0 1320 ± 1.066
1450
1400
1350
1300
1250
1200

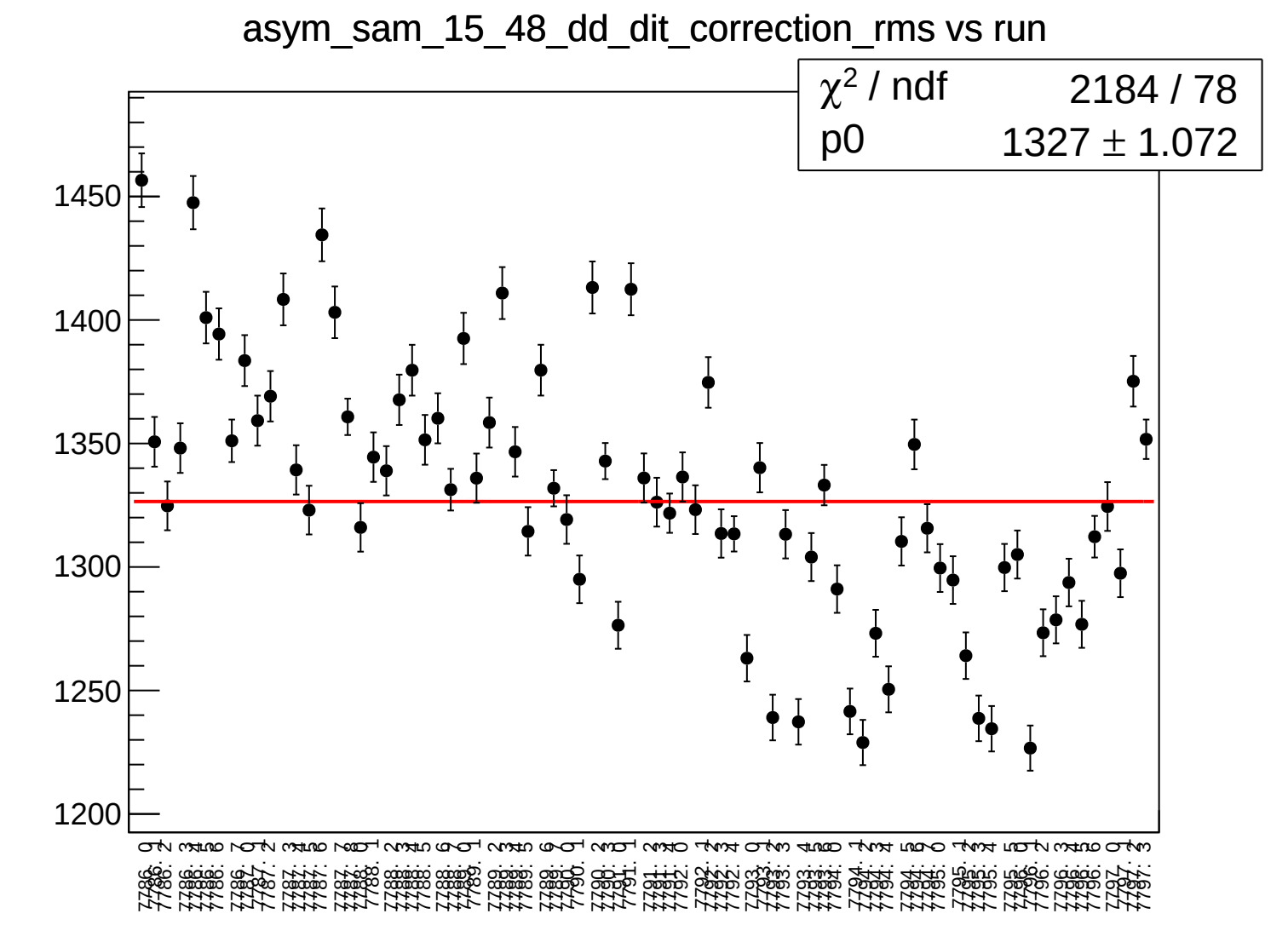

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 60.64 / 78
p0 9.181 ± 96.79
pull
Entries 79
Mean 102.5
Std Dev 41.5

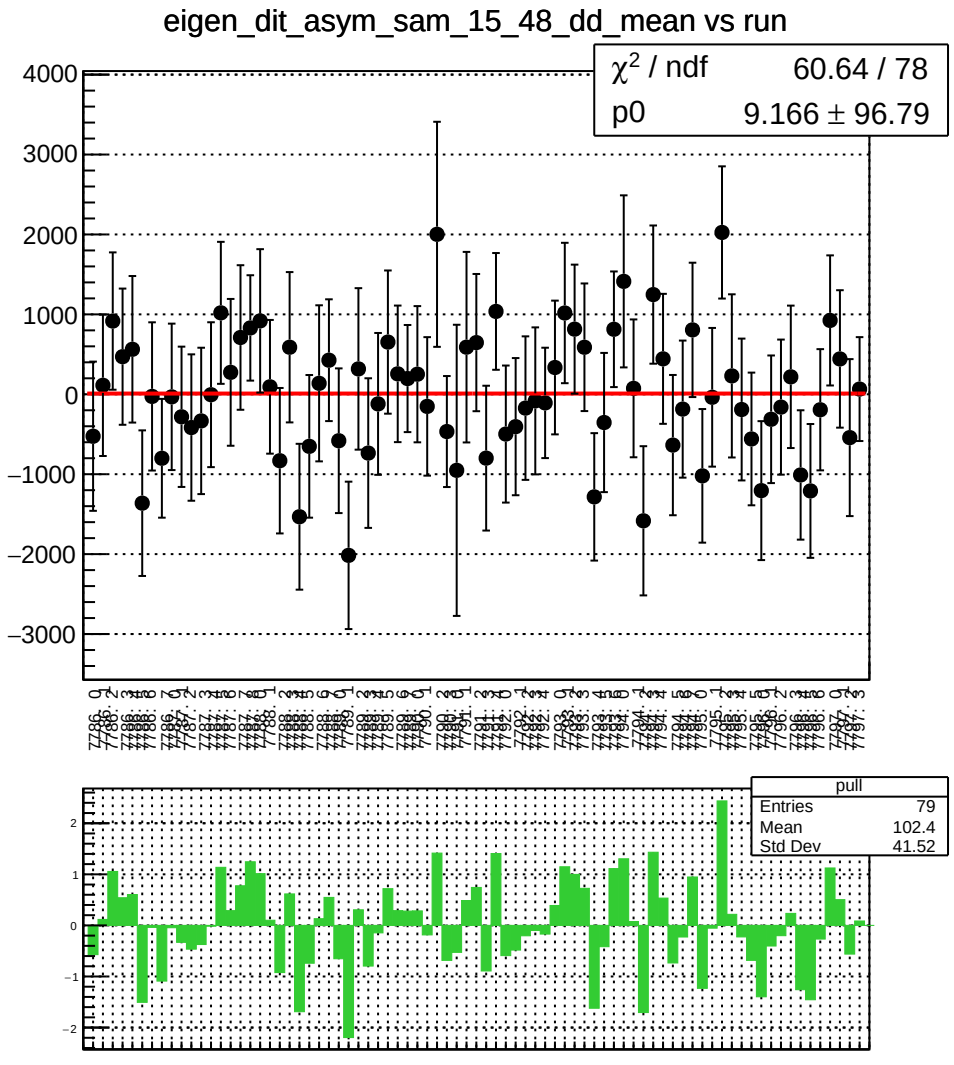

pull1D
Entries 79
Mean −0.006114
Std Dev 0.8761

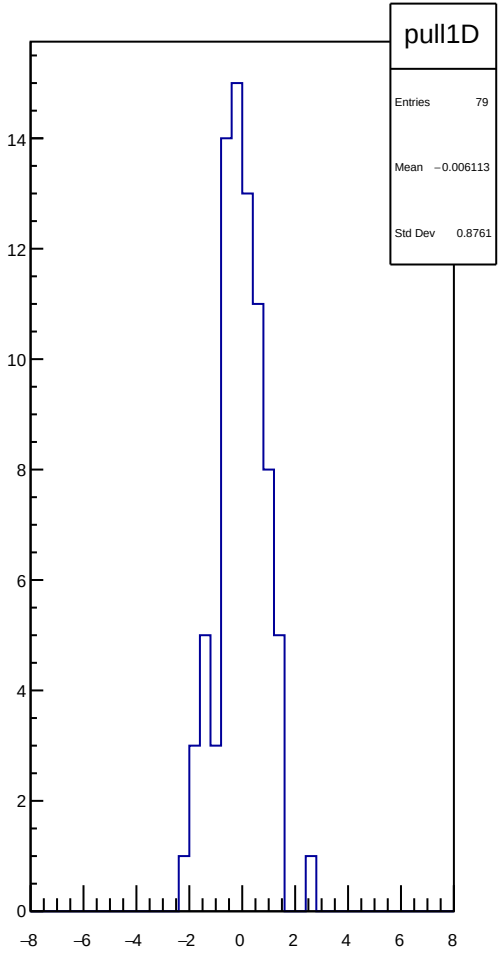

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.288e+04 / 78
p0 84.41 ± 0.06844
180
160
140
120
100
80

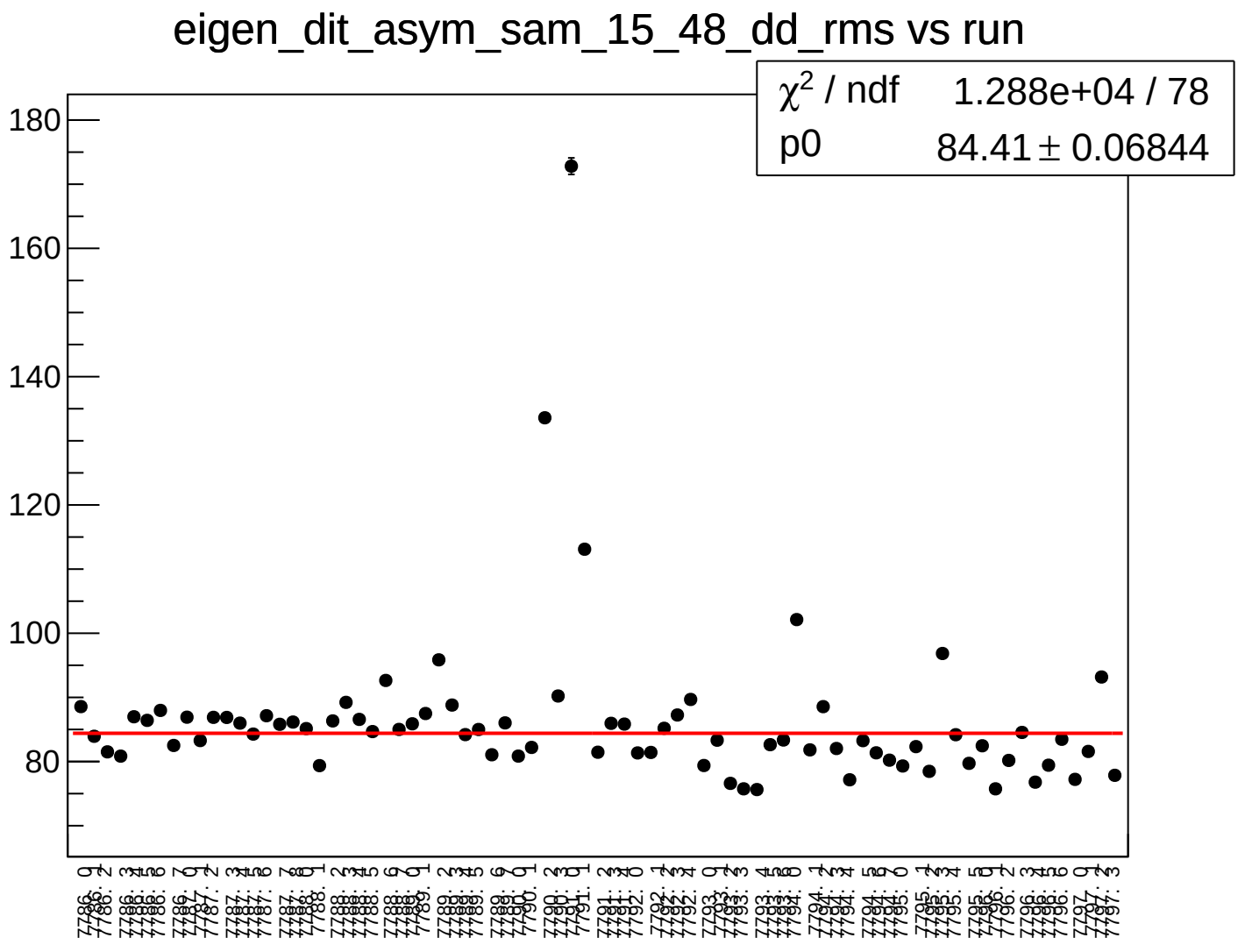

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 70.36 / 78
p0 2377 ± 1516
pull
Entries 79
Mean −34.57
Std Dev 34.08

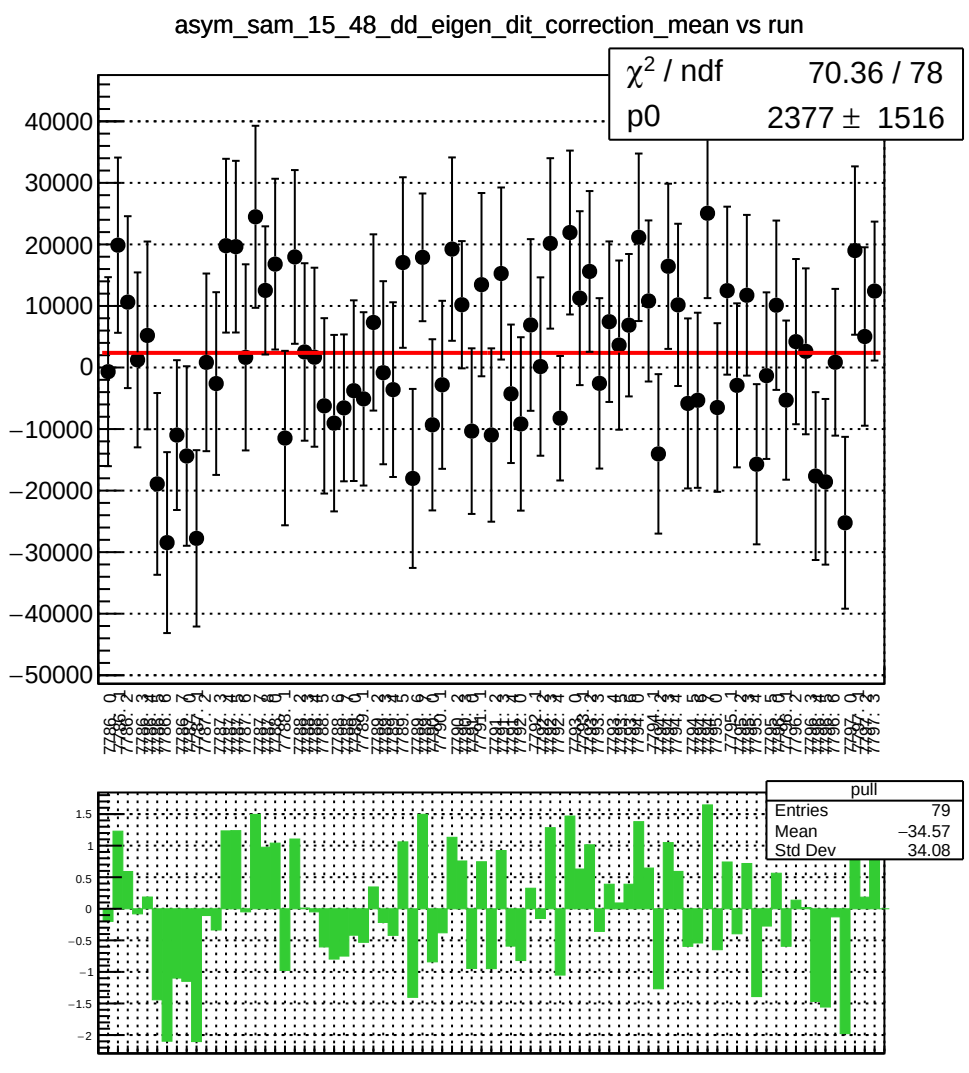

pull1D
Entries 79
Mean −0.01038
Std Dev 0.9437

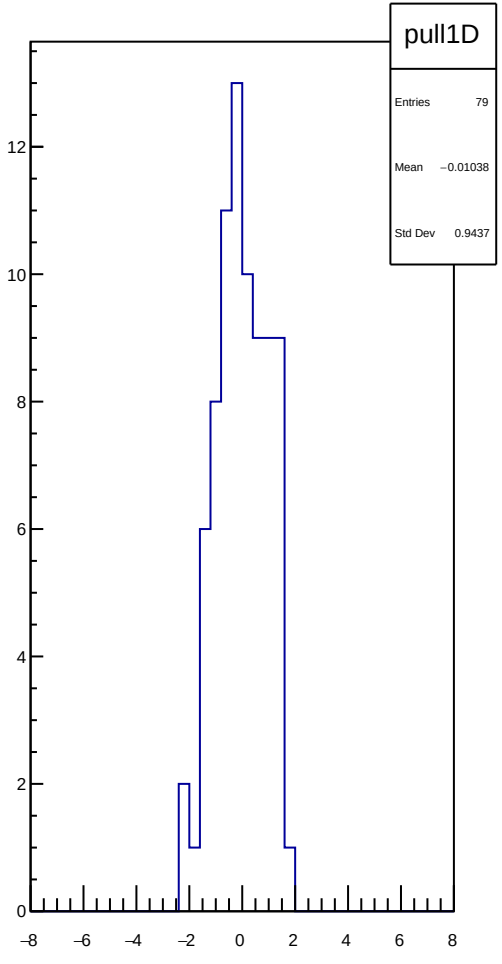

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 2184 / 78
p0 1327 ± 1.072
1450
1400
1350
1300
1250
1200

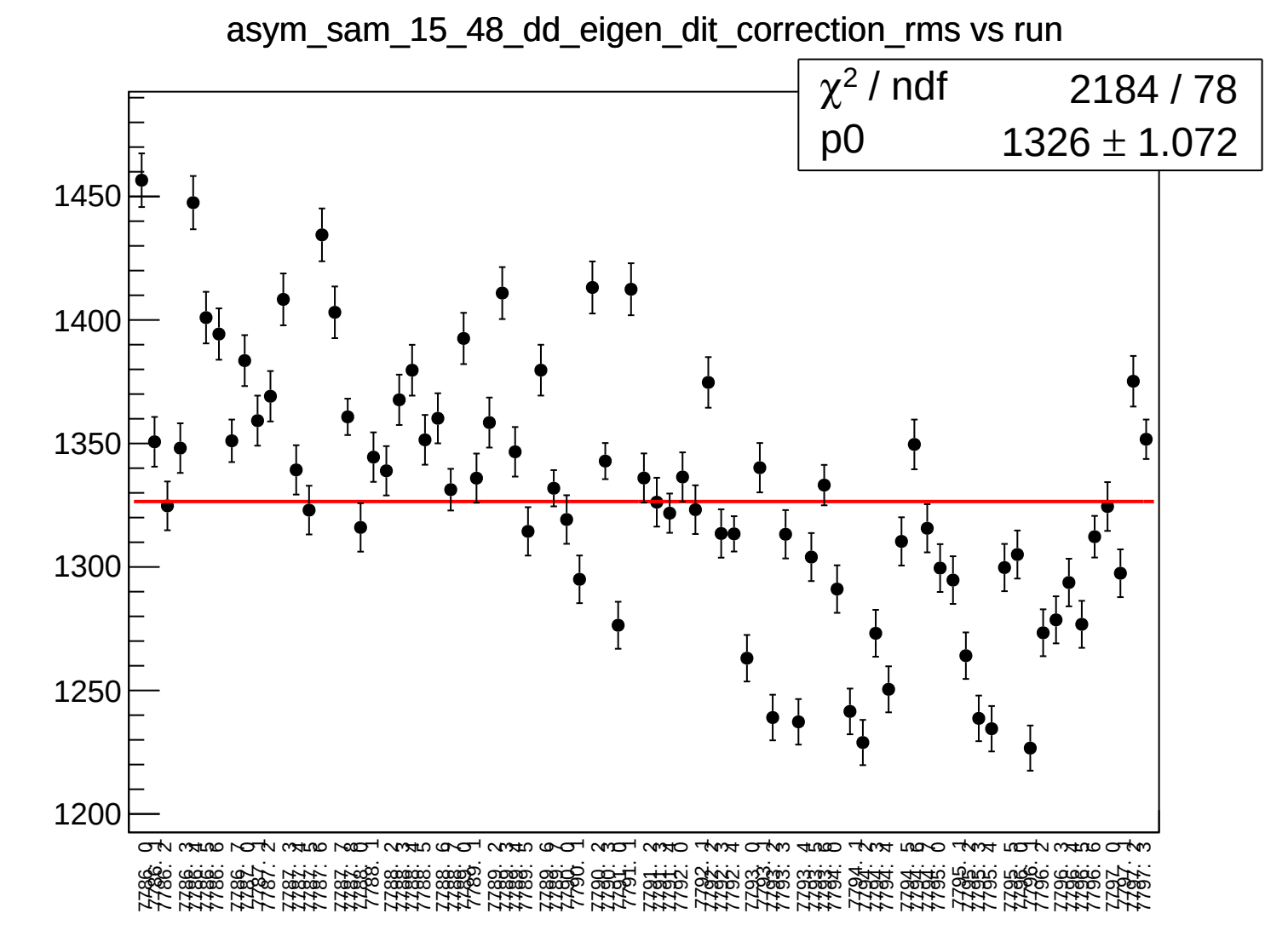

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 60.64 / 78
p0 9.166 ± 96.79
pull
Entries 79
Mean 102.4
Std Dev 41.52

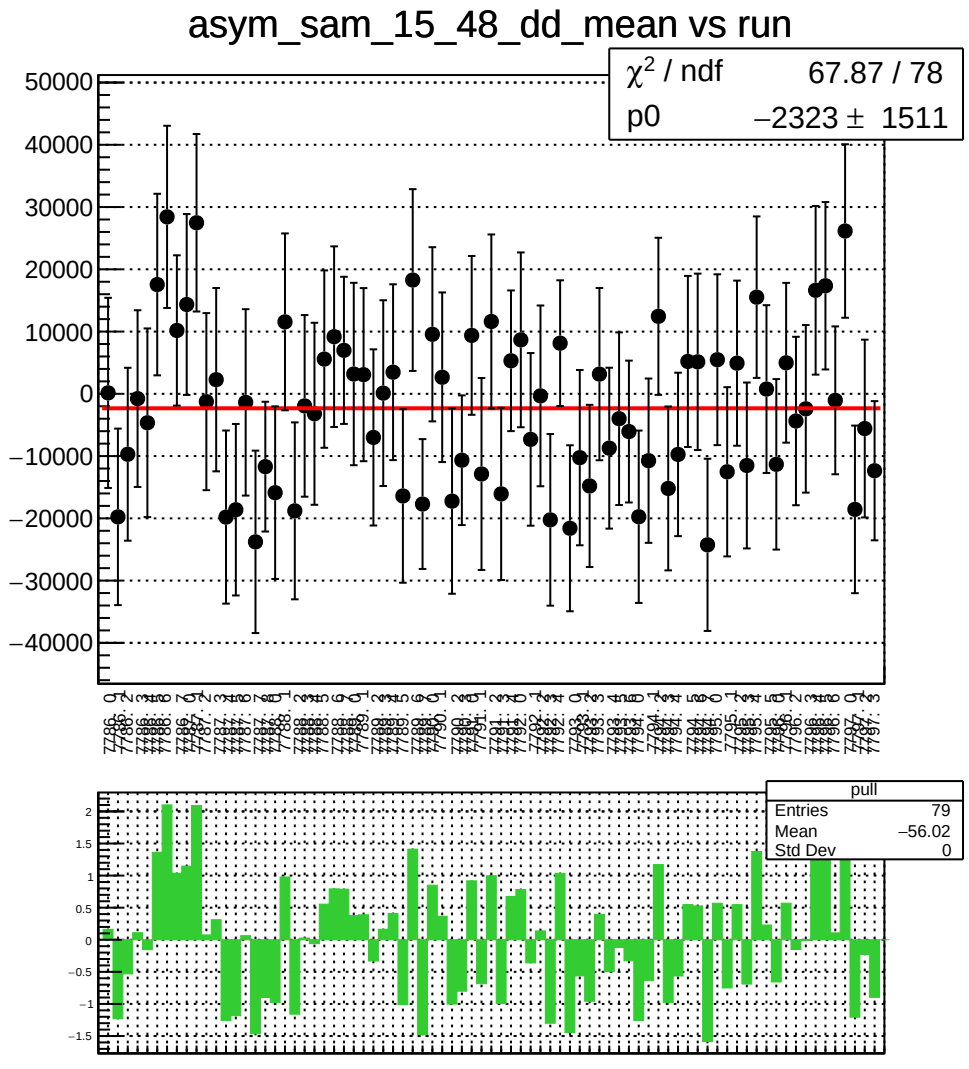

pull1D
Entries 79
Mean −0.006113
Std Dev 0.8761

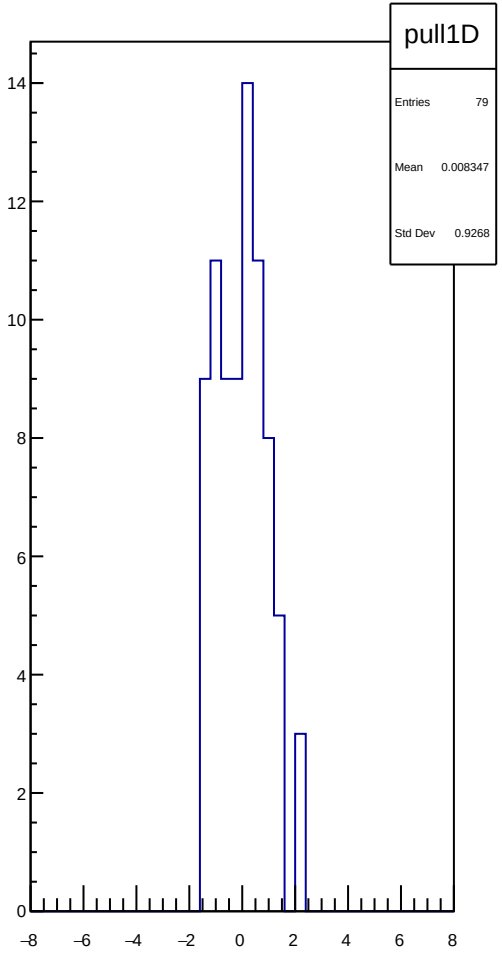

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.288e+04 / 78
p0 84.41 ± 0.06844
180
160
140
120
100
80

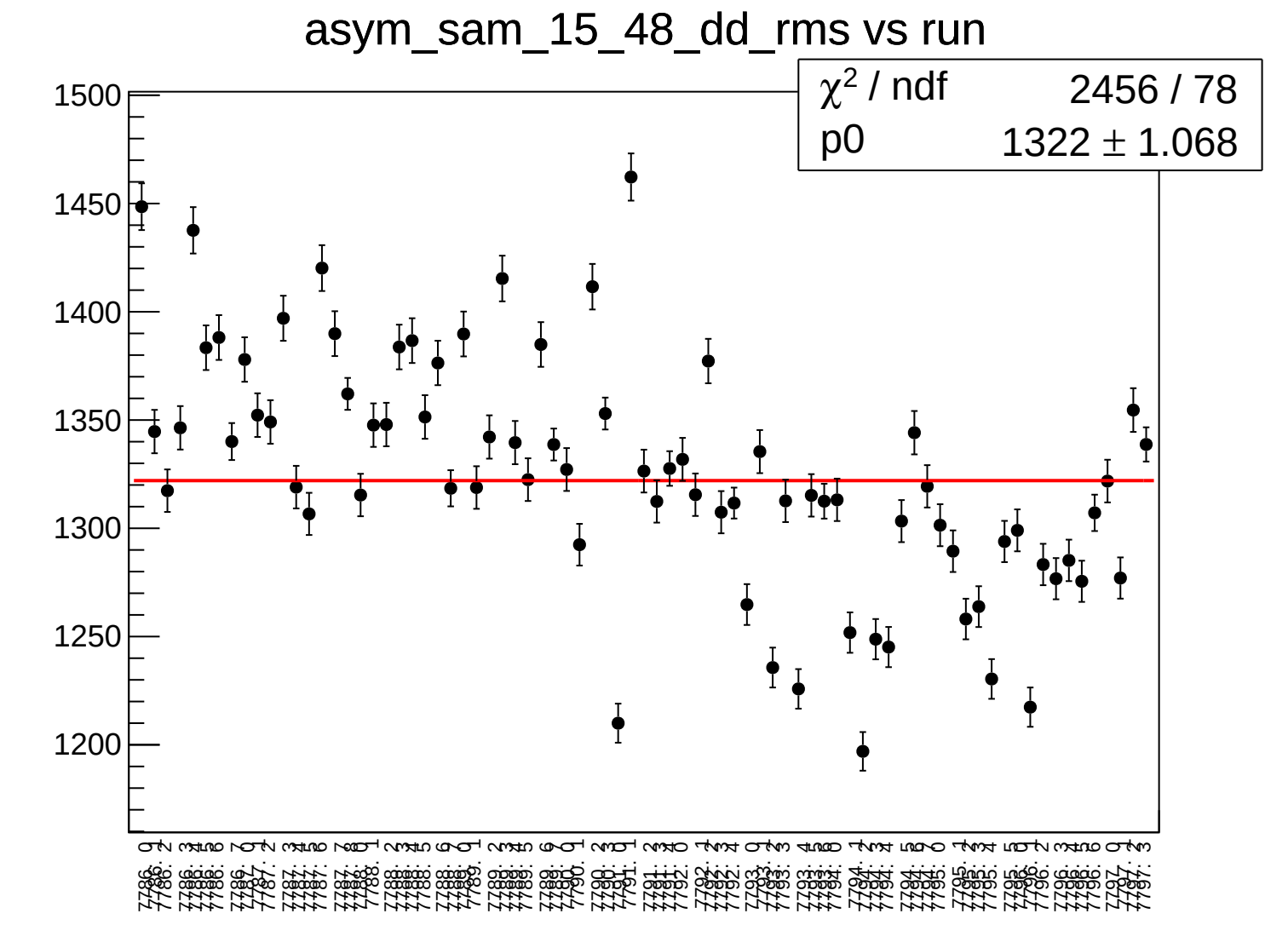

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.36 / 78
p0 2377 ± 1516
pull
Entries 79
Mean −34.57
Std Dev 34.08

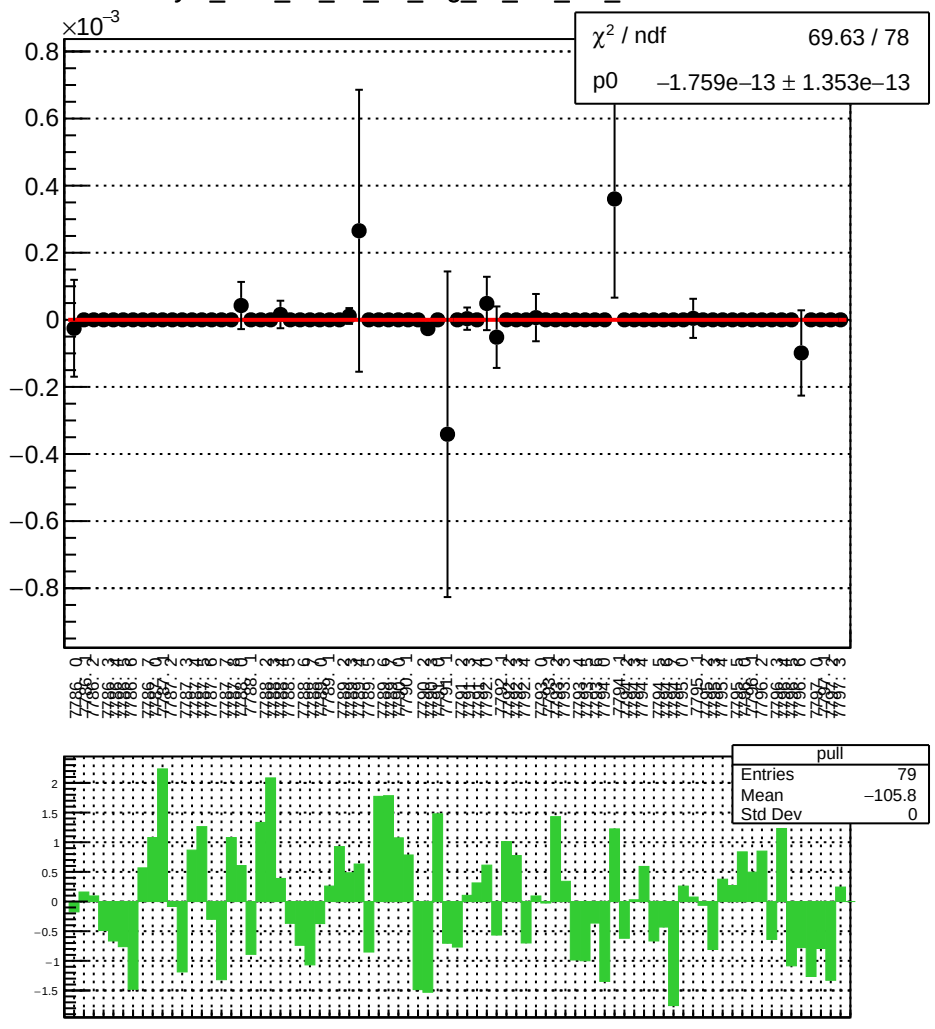

pull1D
Entries 79
Mean −0.01038
Std Dev 0.9437

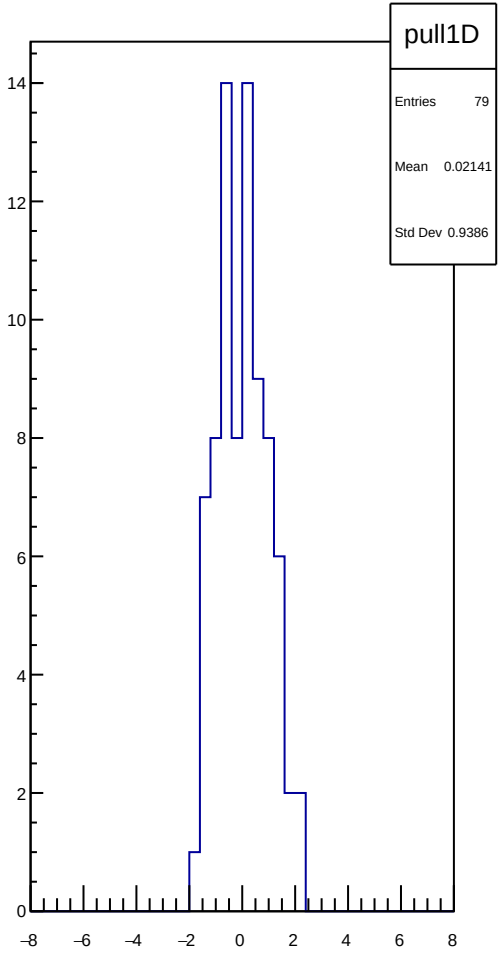

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2184 / 78
p0 1326 ± 1.072
1450
1400
1350
1300
1250
1200

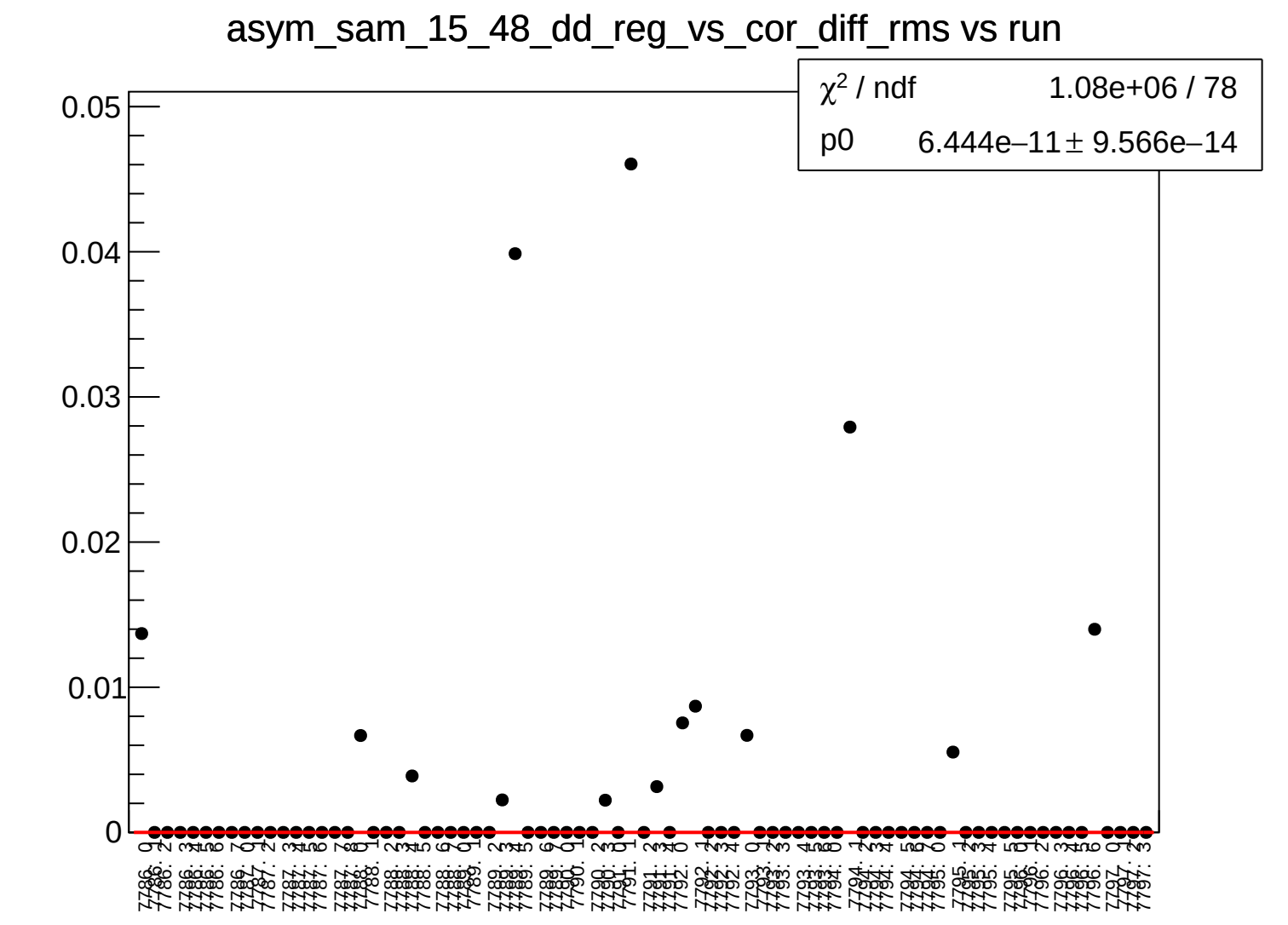

asym_sam_15_48_dd_mean vs run
χ² / ndf 67.87 / 78
p0 −2323 ± 1511
pull
Entries 79
Mean −56.02
Std Dev 0

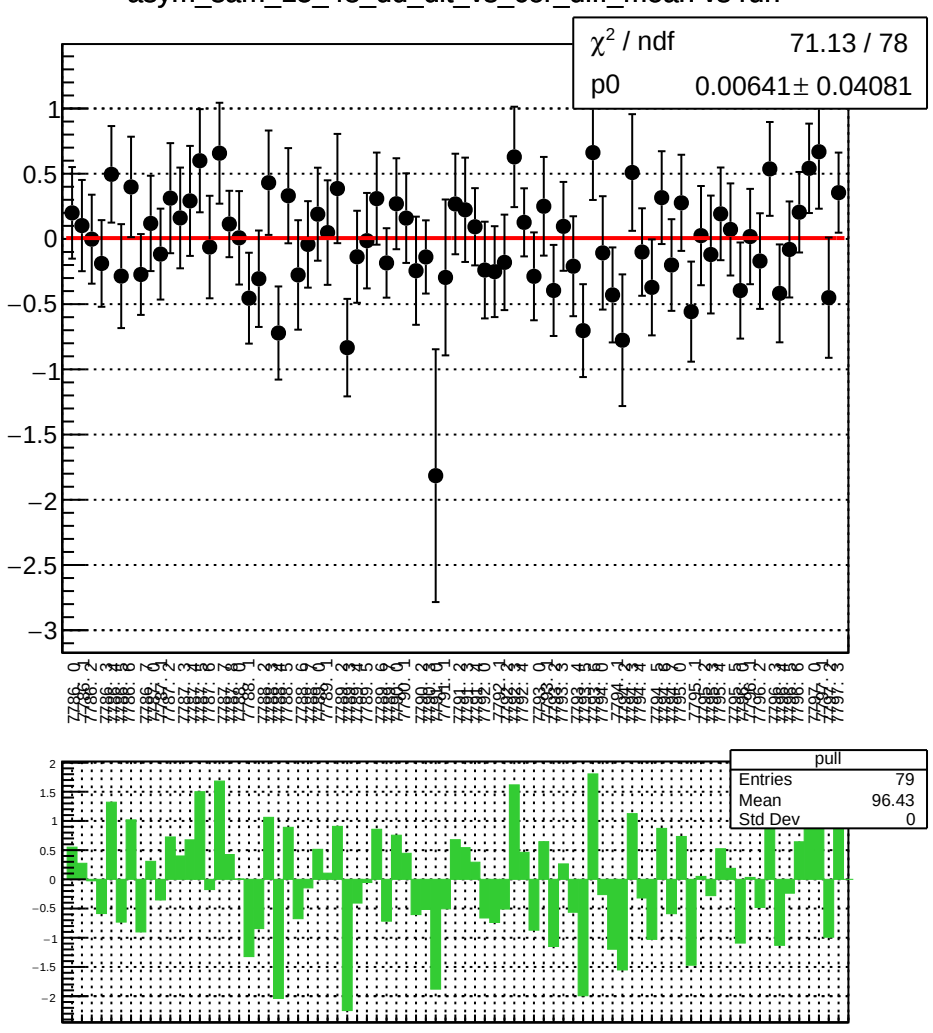

pull1D
Entries 79
Mean 0.008347
Std Dev 0.9268

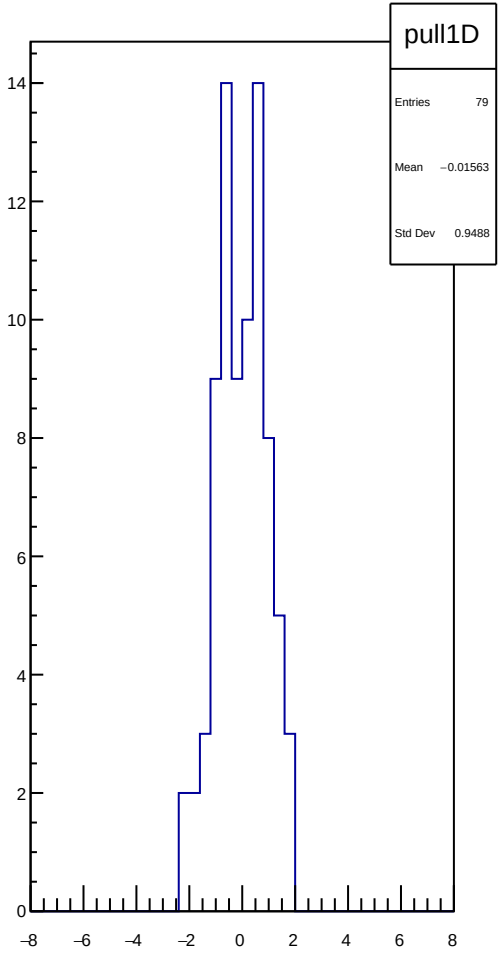

asym_sam_15_48_dd_rms vs run
χ² / ndf 2456 / 78
p0 1322 ± 1.068
1500
1450
1400
1350
1300
1250
1200

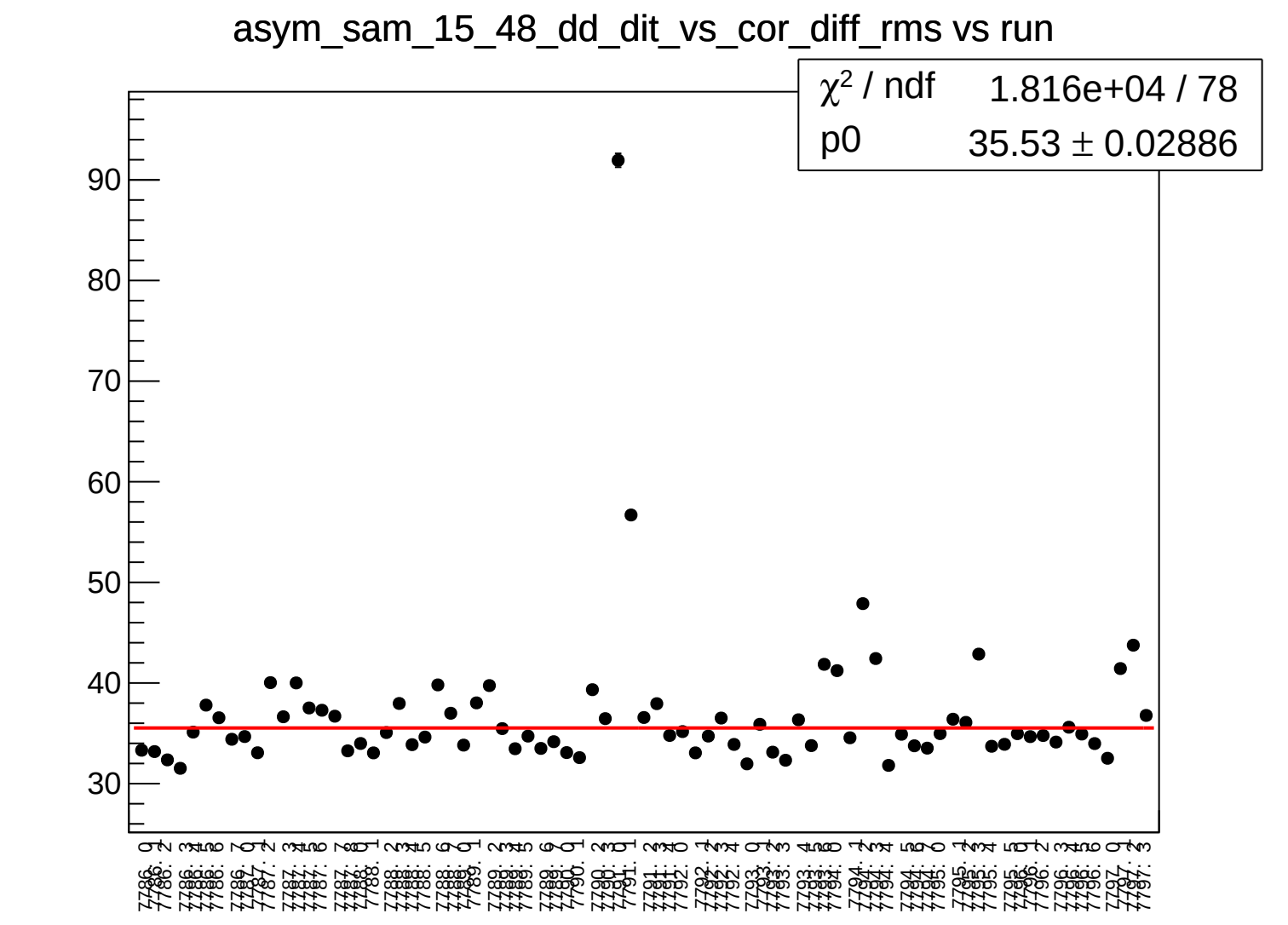

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 69.63 / 78
p0 −1.759e−13 ± 1.353e−13
pull
Entries 79
Mean −105.8
Std Dev 0

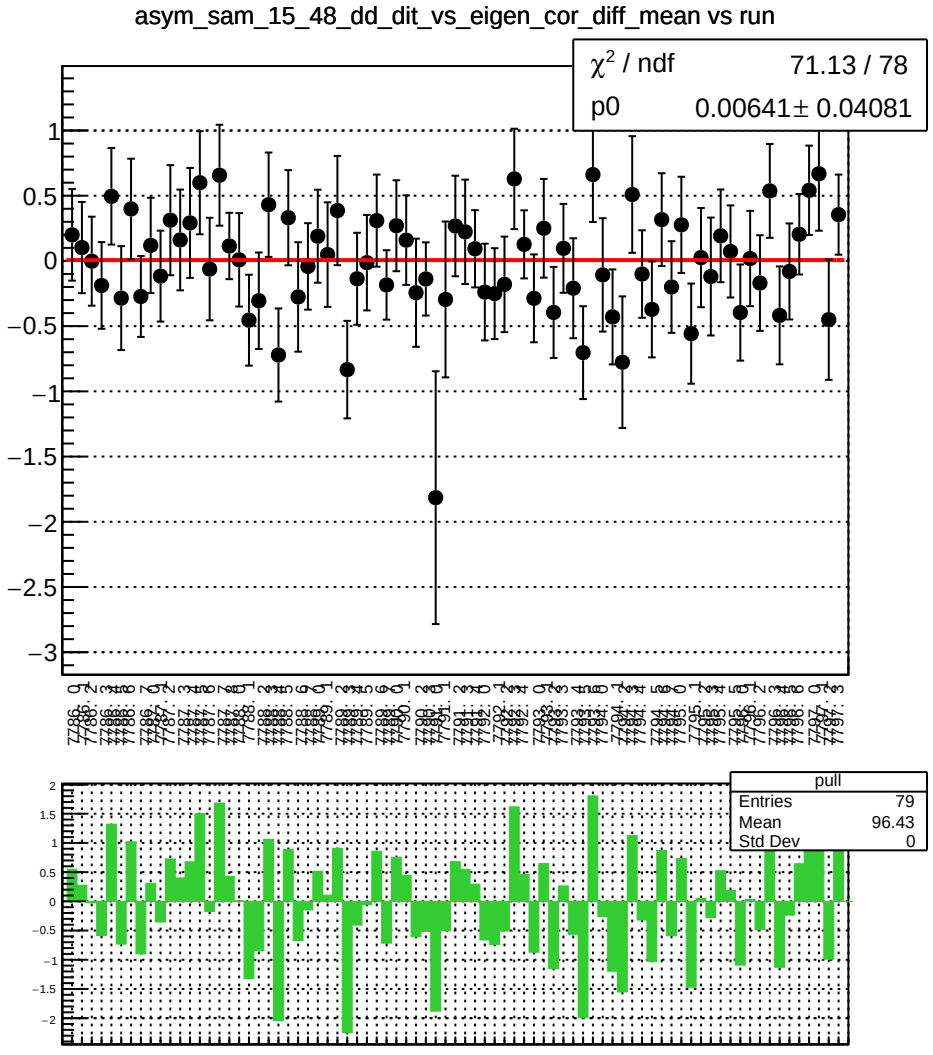

pull1D
Entries 79
Mean 0.02141
Std Dev 0.9386

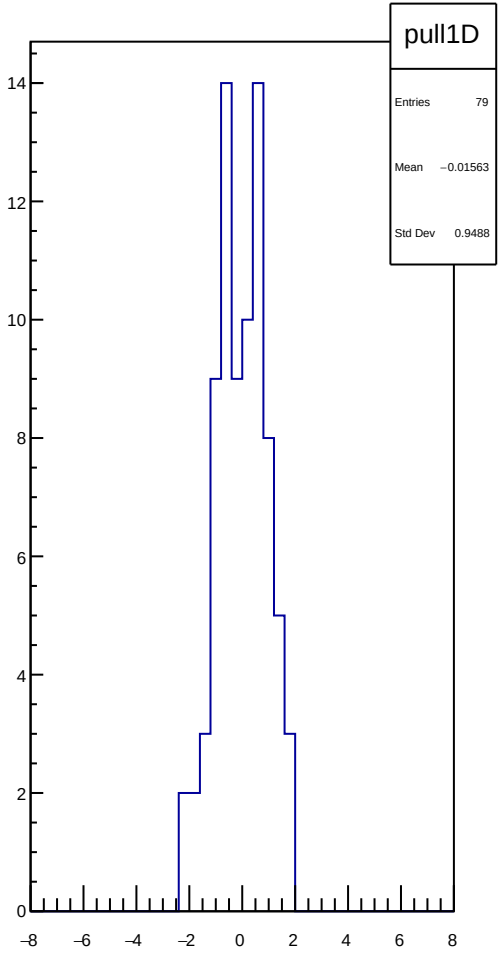

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.08e+06 / 78
p0 6.444e−11 ± 9.566e−14
0.05
0.04
0.03
0.02
0.01
0

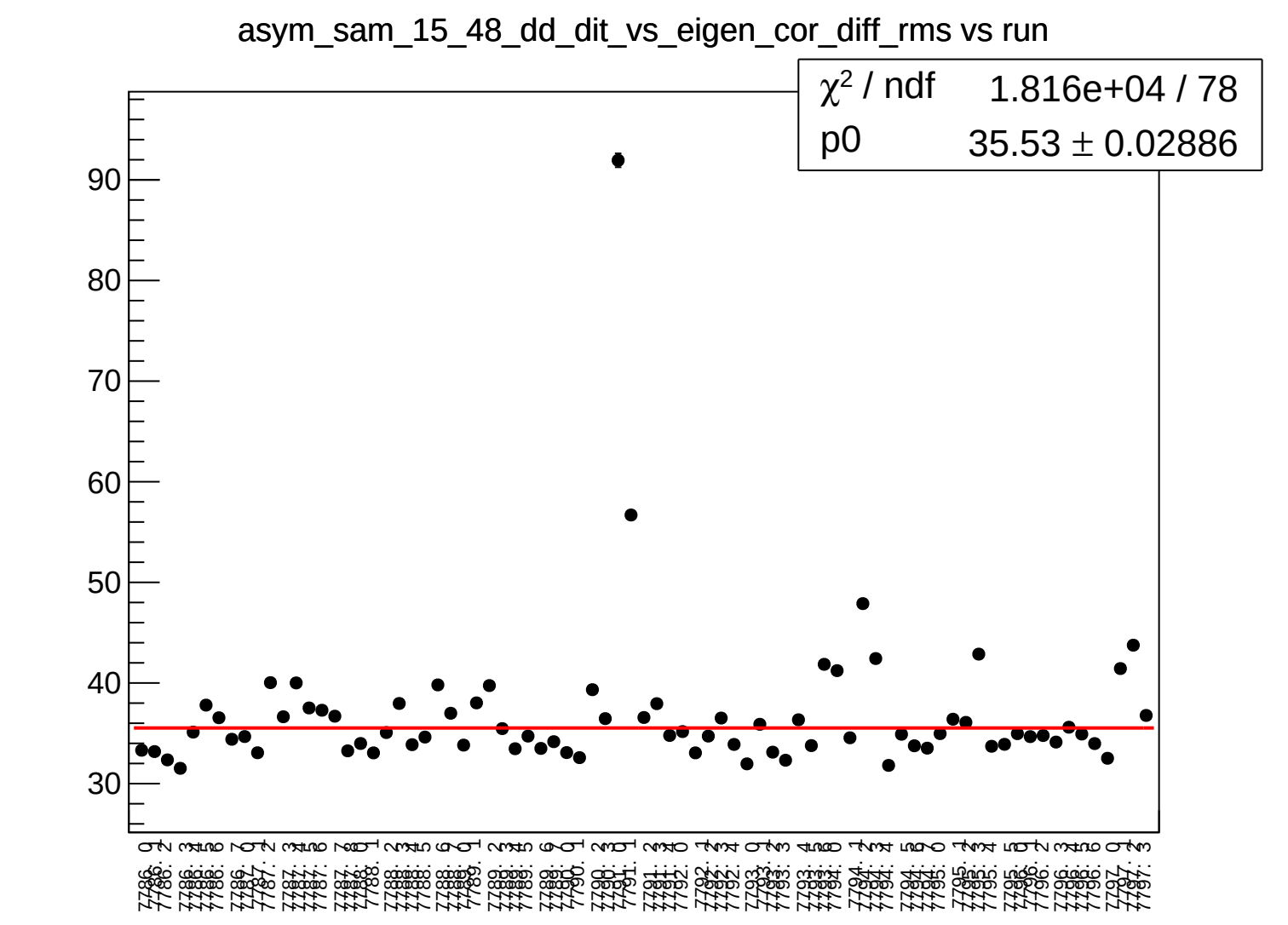

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.13 / 78
p0 0.00641± 0.04081
pull
Entries 79
Mean 96.43
Std Dev 0

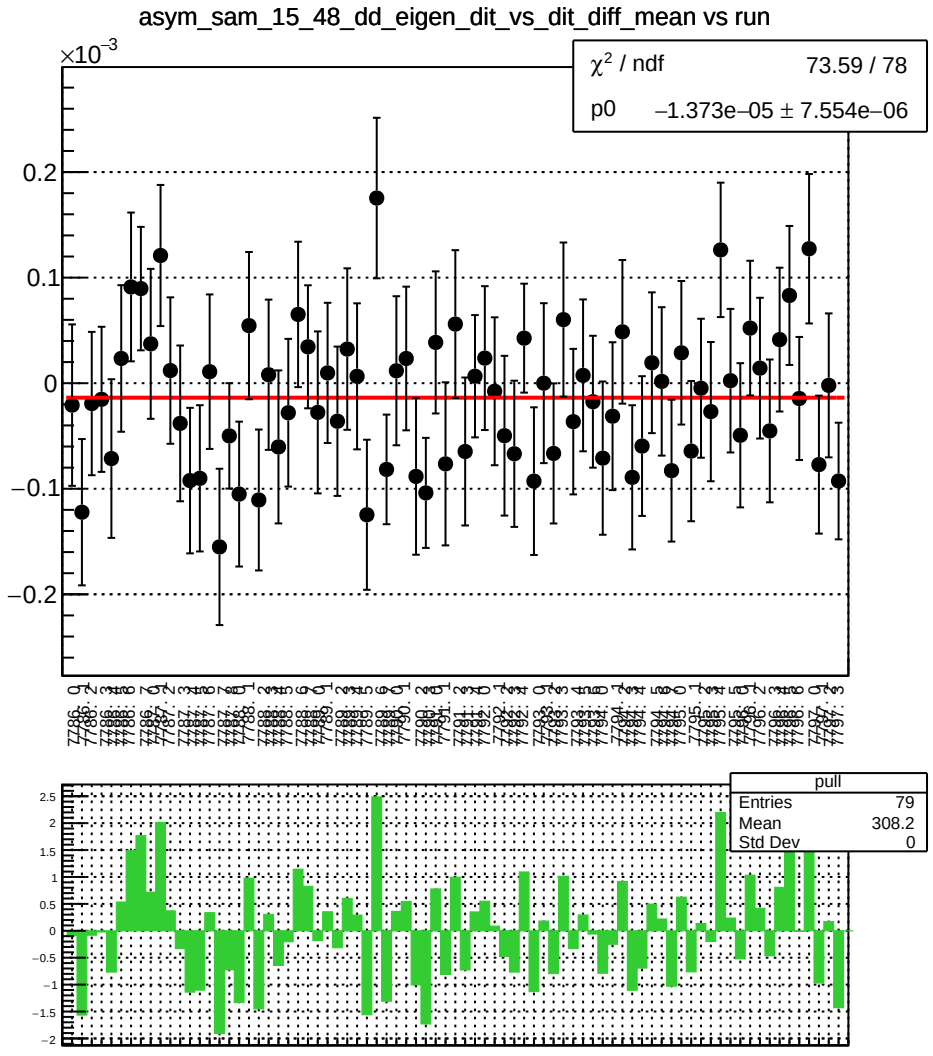

pull1D
Entries 79
Mean −0.01563
Std Dev 0.9488

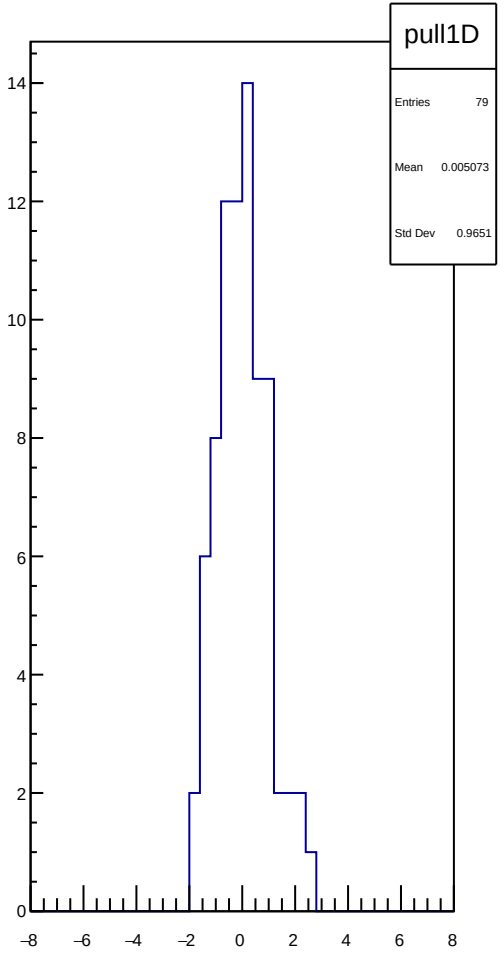

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.816e+04 / 78
p0 35.53 ± 0.02886
90
80
70
60
50
40
30

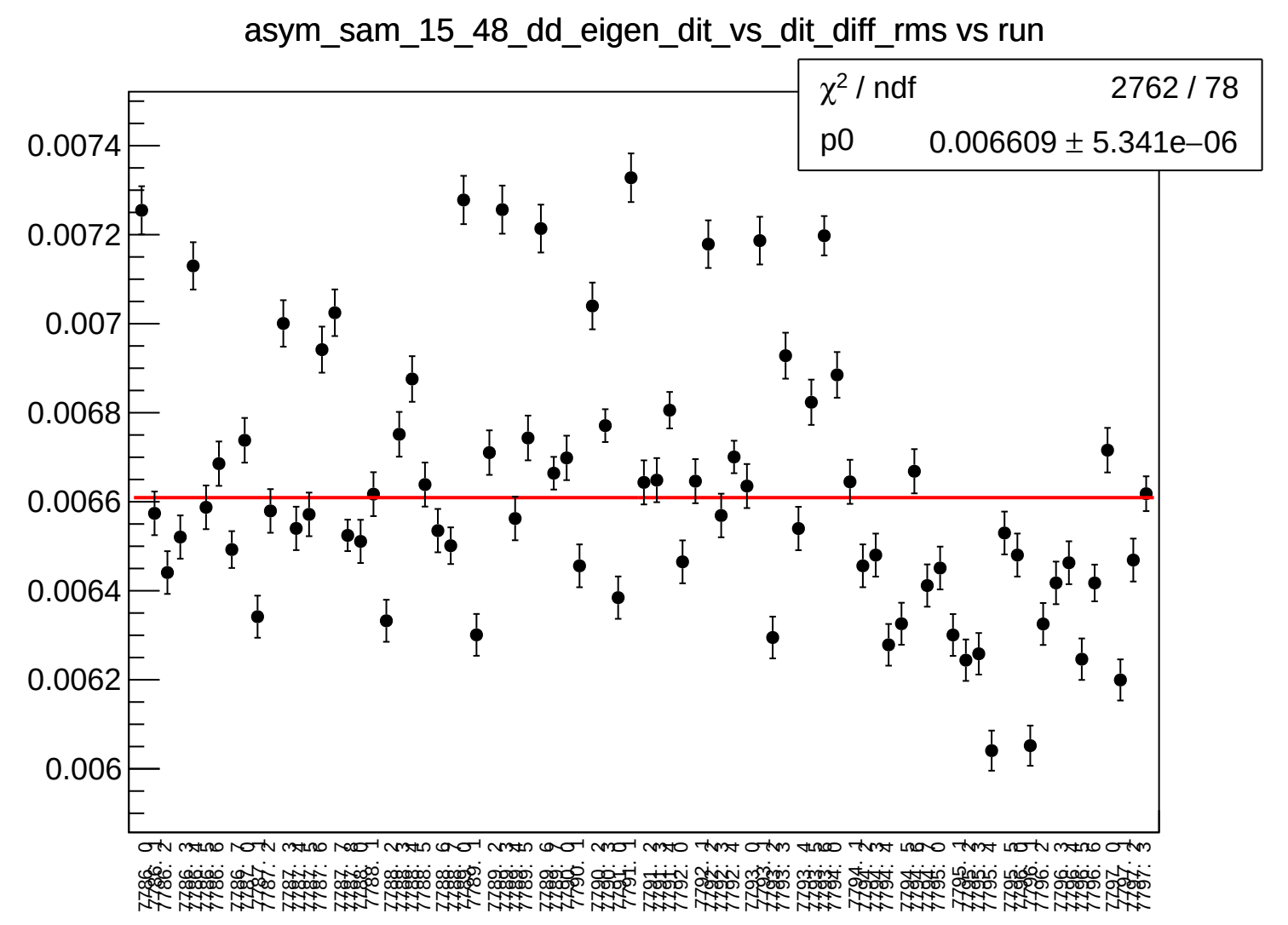

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.13 / 78
p0 0.00641± 0.04081
pull
Entries 79
Mean 96.43
Std Dev 0

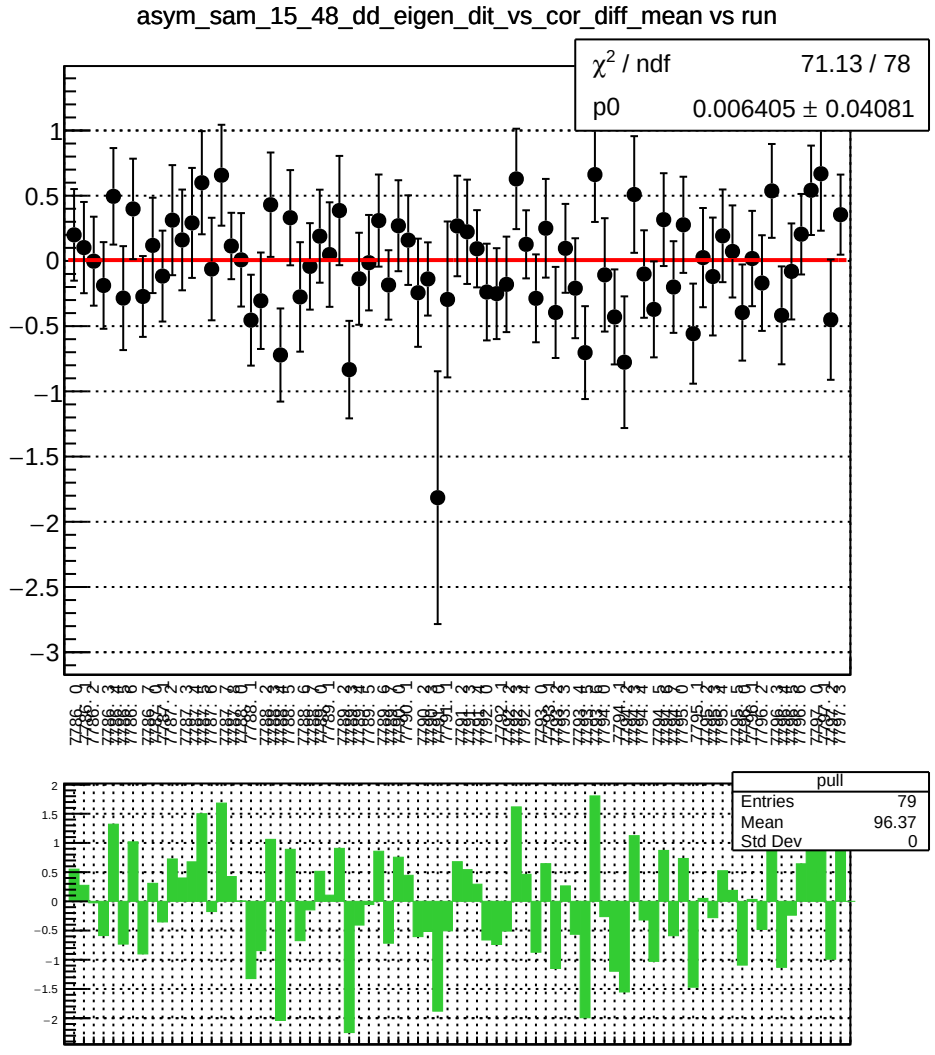

pull1D
Entries 79
Mean −0.01563
Std Dev 0.9488

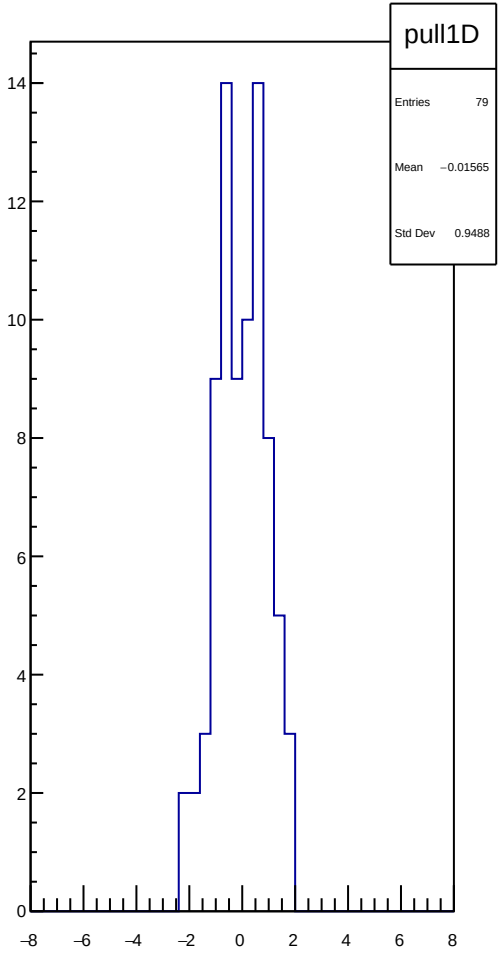

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.816e+04 / 78
p0 35.53 ± 0.02886
90
80
70
60
50
40
30

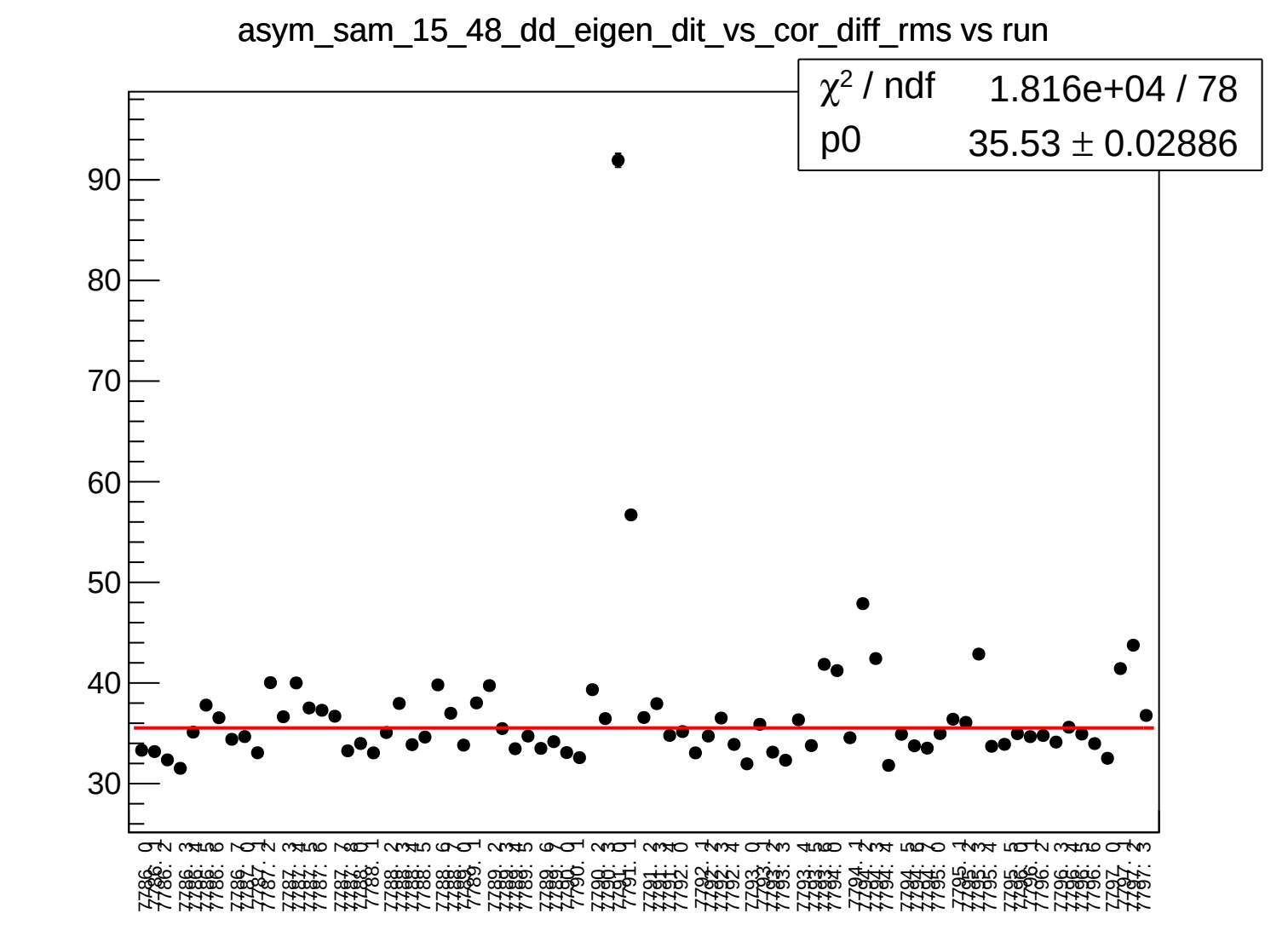

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.59 / 78
p0 −1.373e−05 ± 7.554e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 79
Mean 308.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

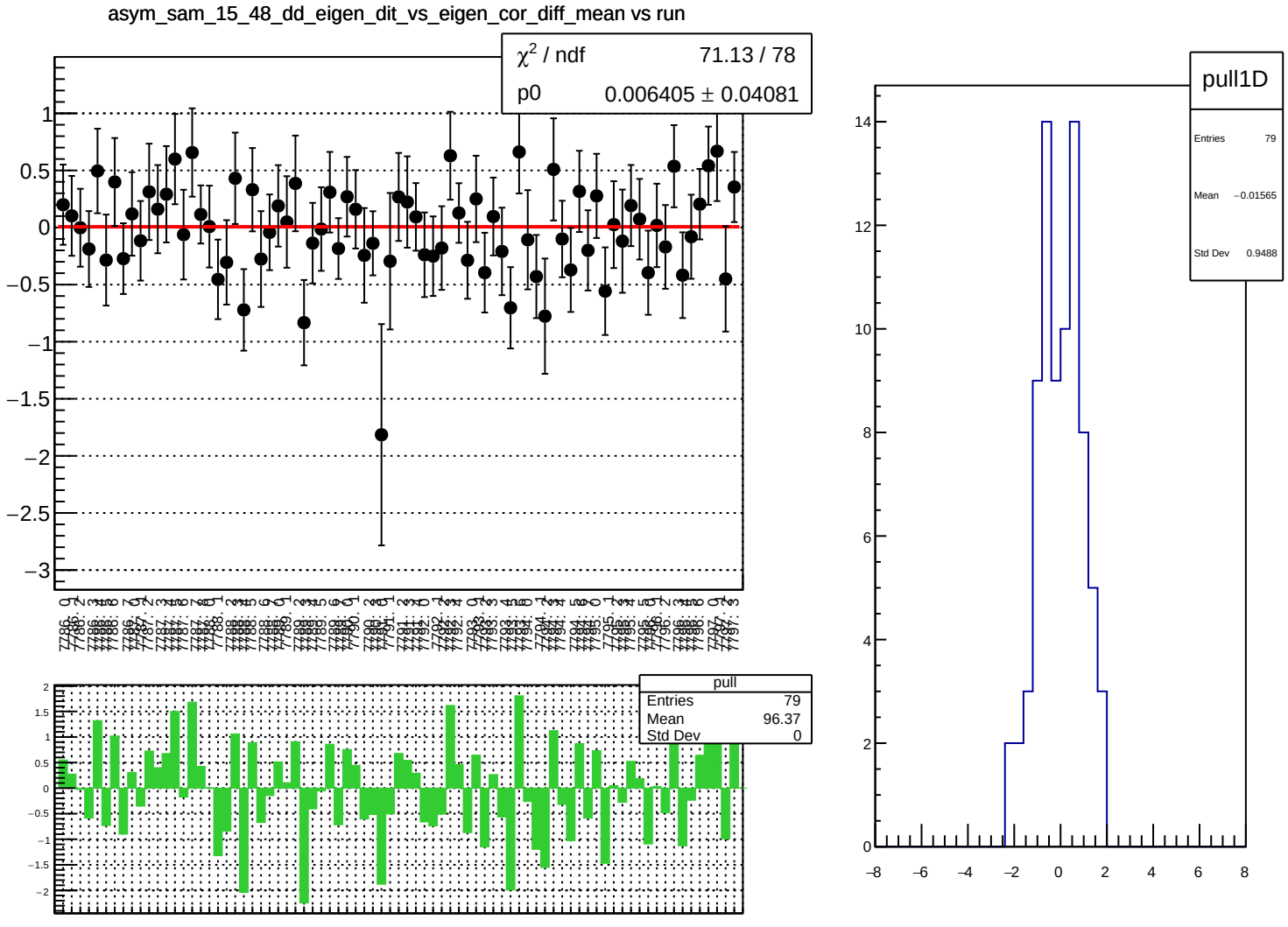

pull1D
Entries 79
Mean 0.005073
Std Dev 0.9651
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

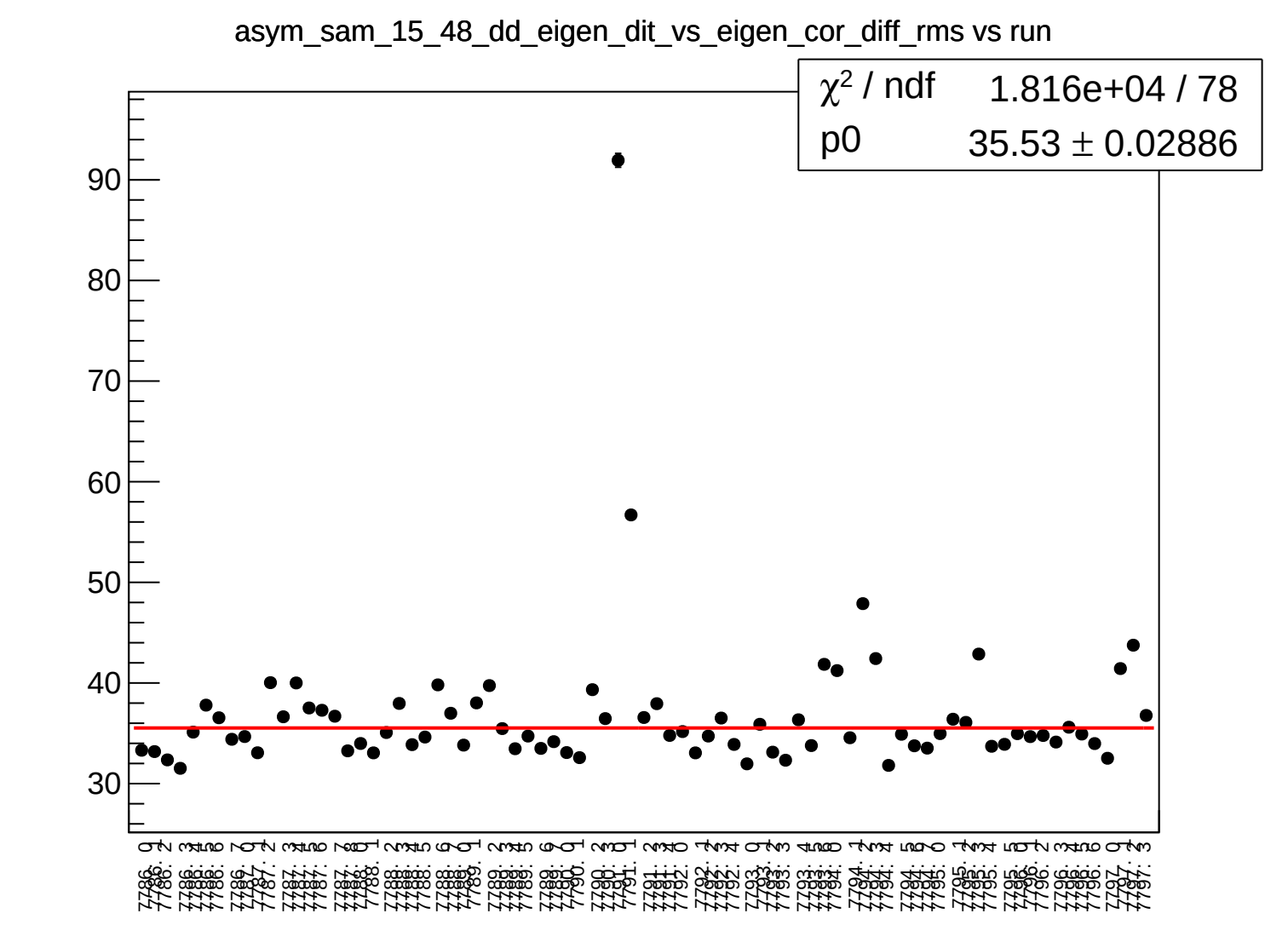

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2762 / 78
p0 0.006609 ± 5.341e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

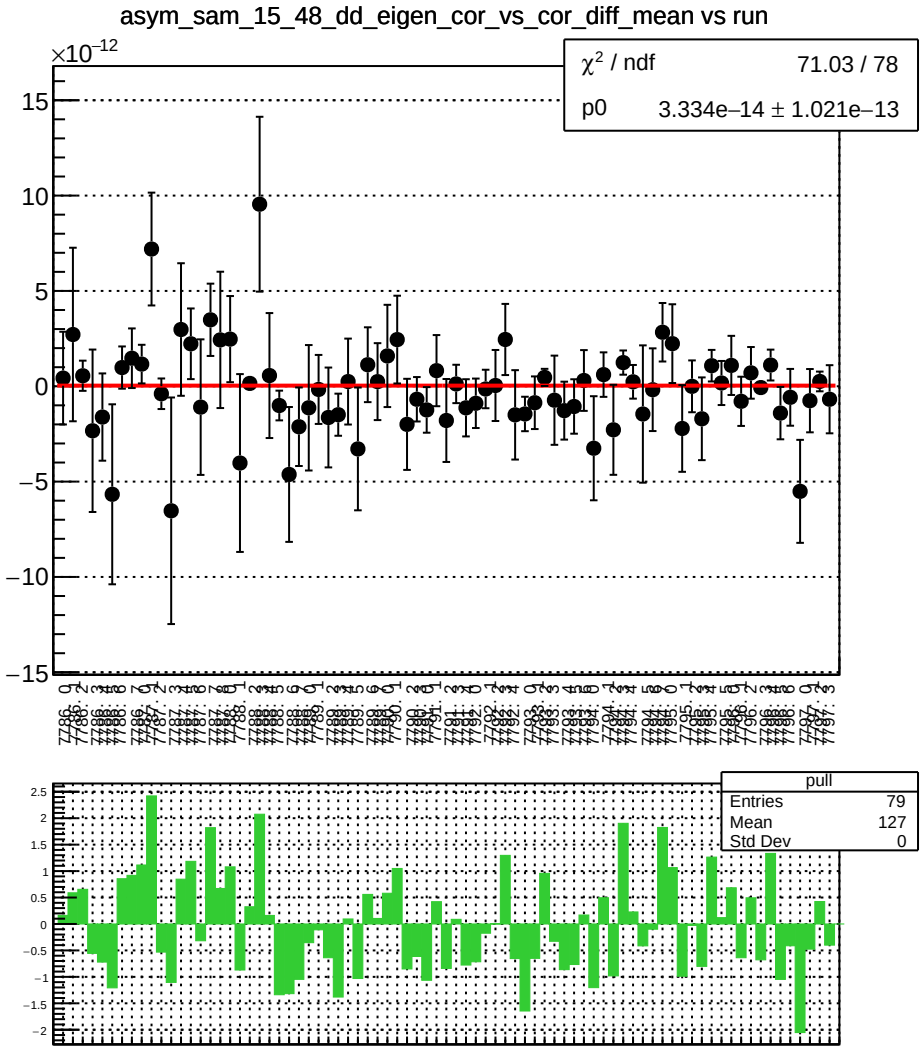

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.13 / 78
p0 0.006405 ± 0.04081
pull
Entries 79
Mean 96.37
Std Dev 0

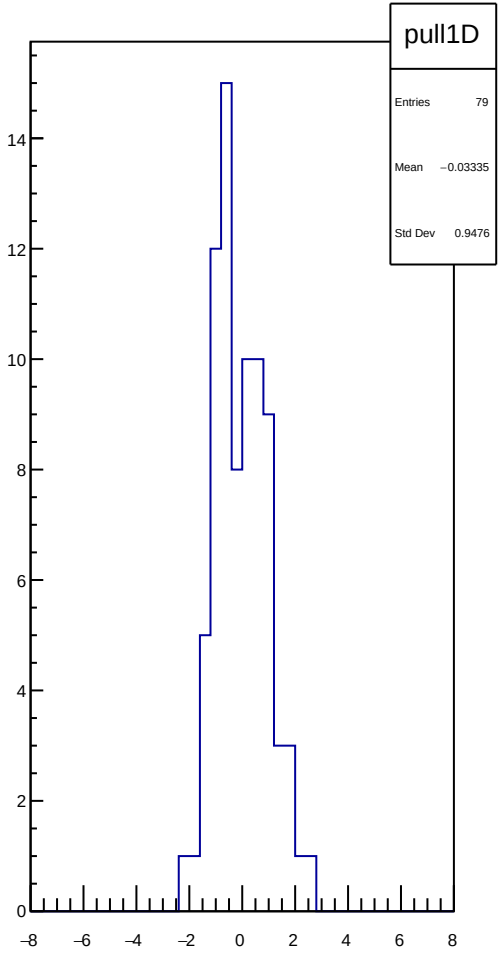

pull1D
Entries 79
Mean −0.01565
Std Dev 0.9488

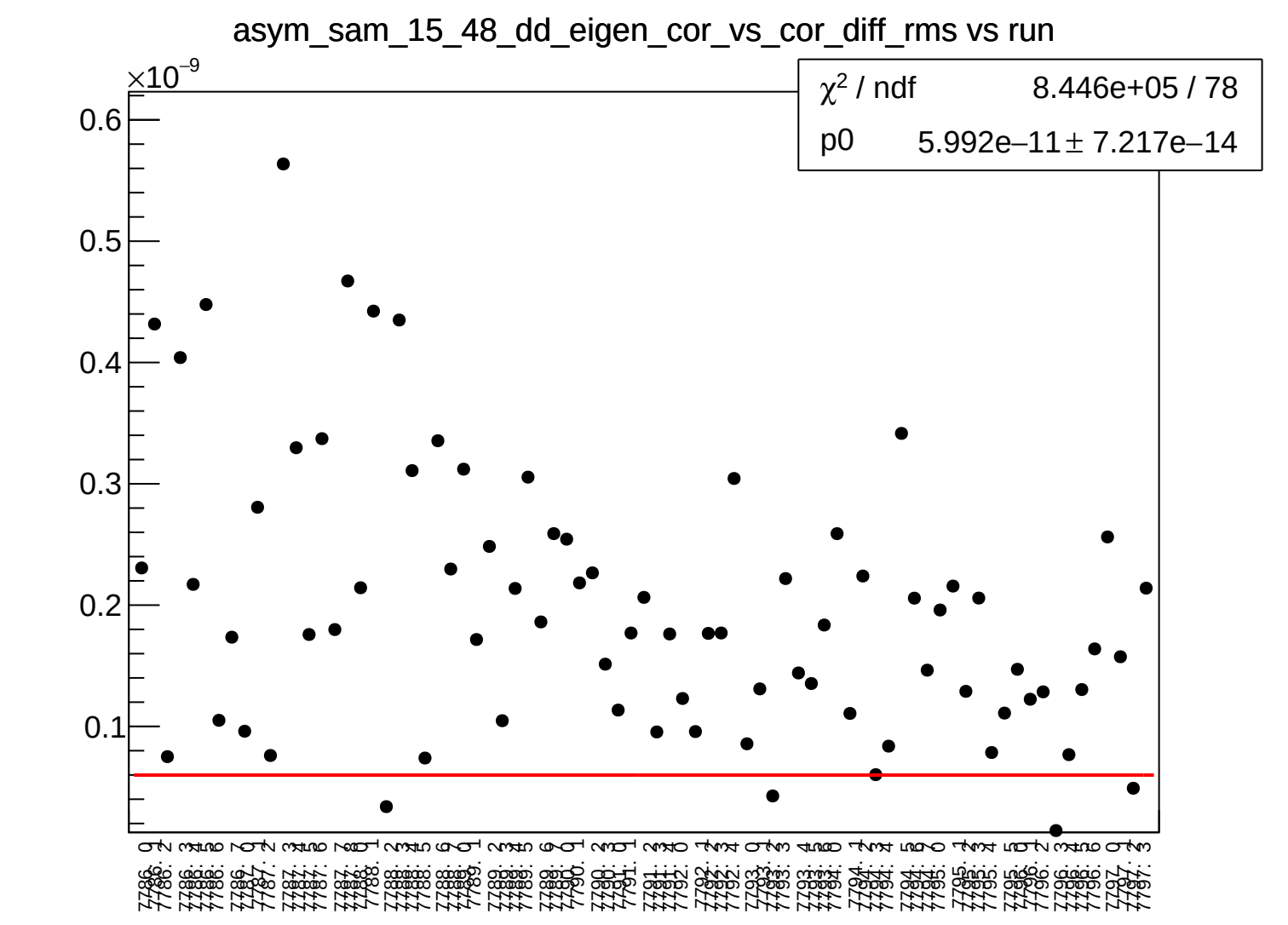

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.816e+04 / 78
p0 35.53 ± 0.02886
90
80
70
60
50
40
30

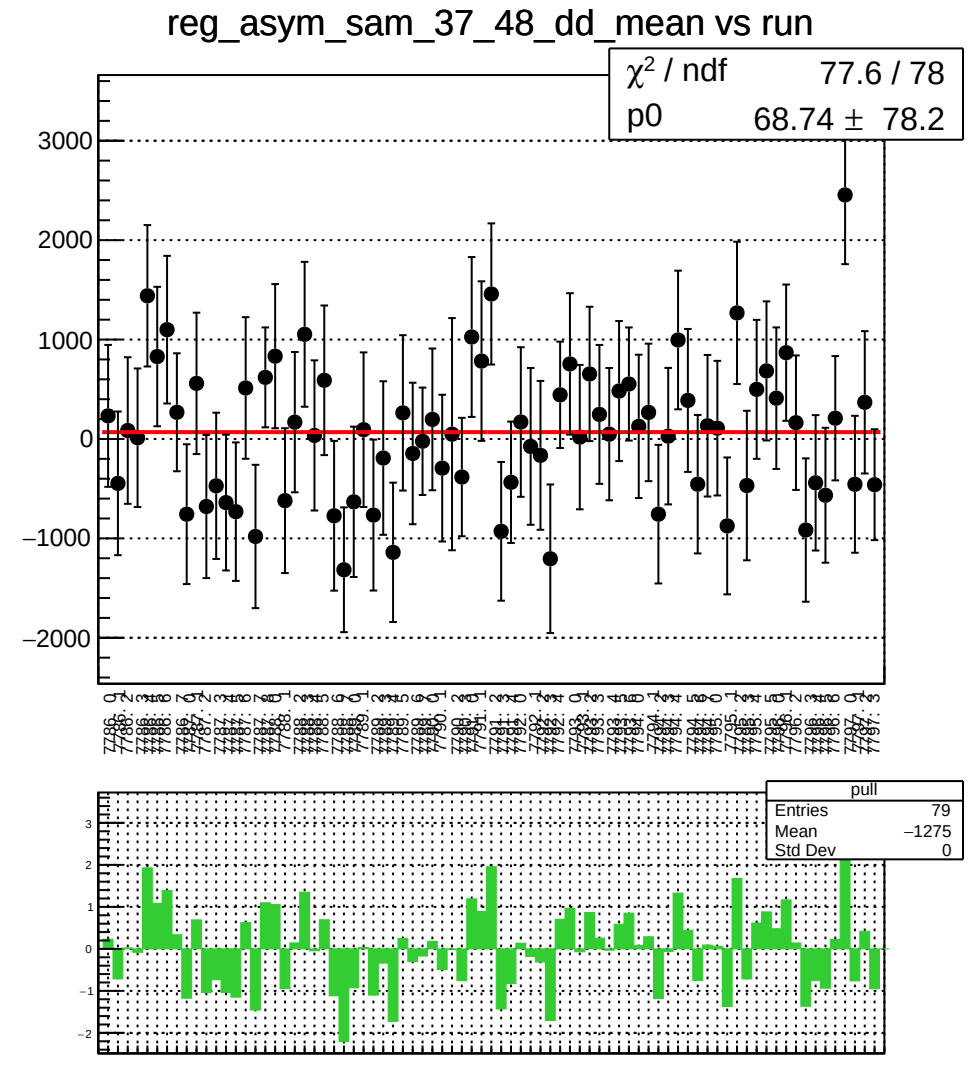

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.13 / 78
p0 0.006405 ± 0.04081
pull
Entries 79
Mean 96.37
Std Dev 0
pull1D
Entries 79
Mean −0.01565
Std Dev 0.9488

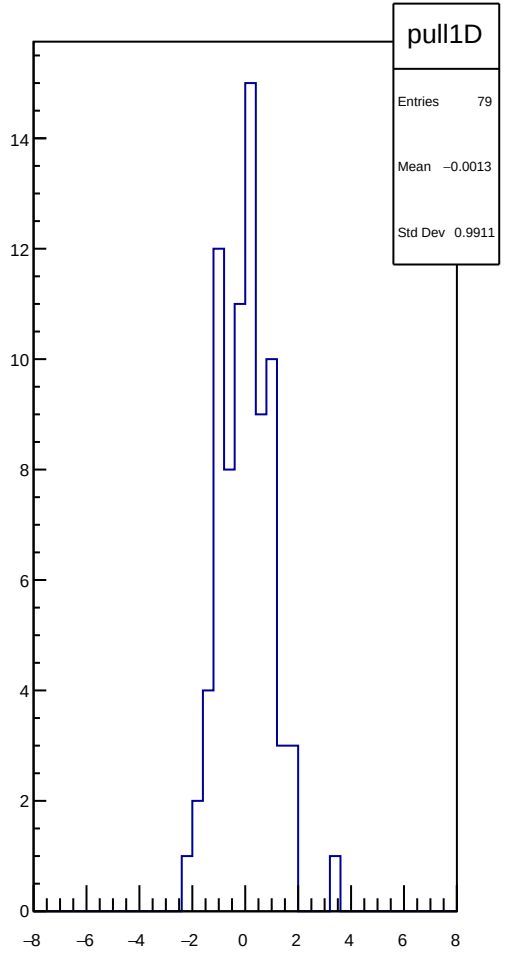

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.816e+04 / 78
p0 35.53 ± 0.02886
90
80
70
60
50
40
30

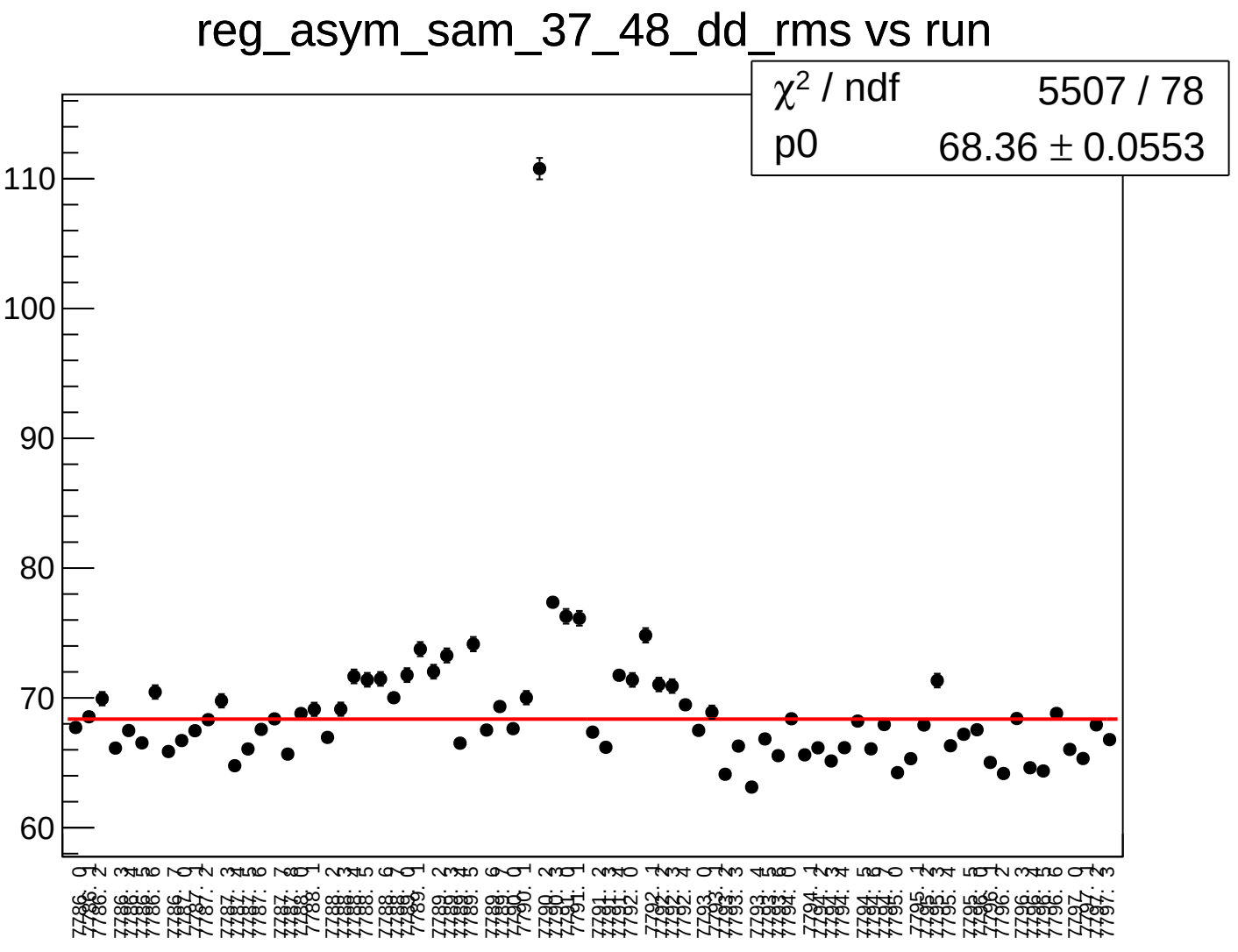

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.03 / 78
p0 3.334e−14 ± 1.021e−13
pull
Entries 79
Mean 127
Std Dev 0

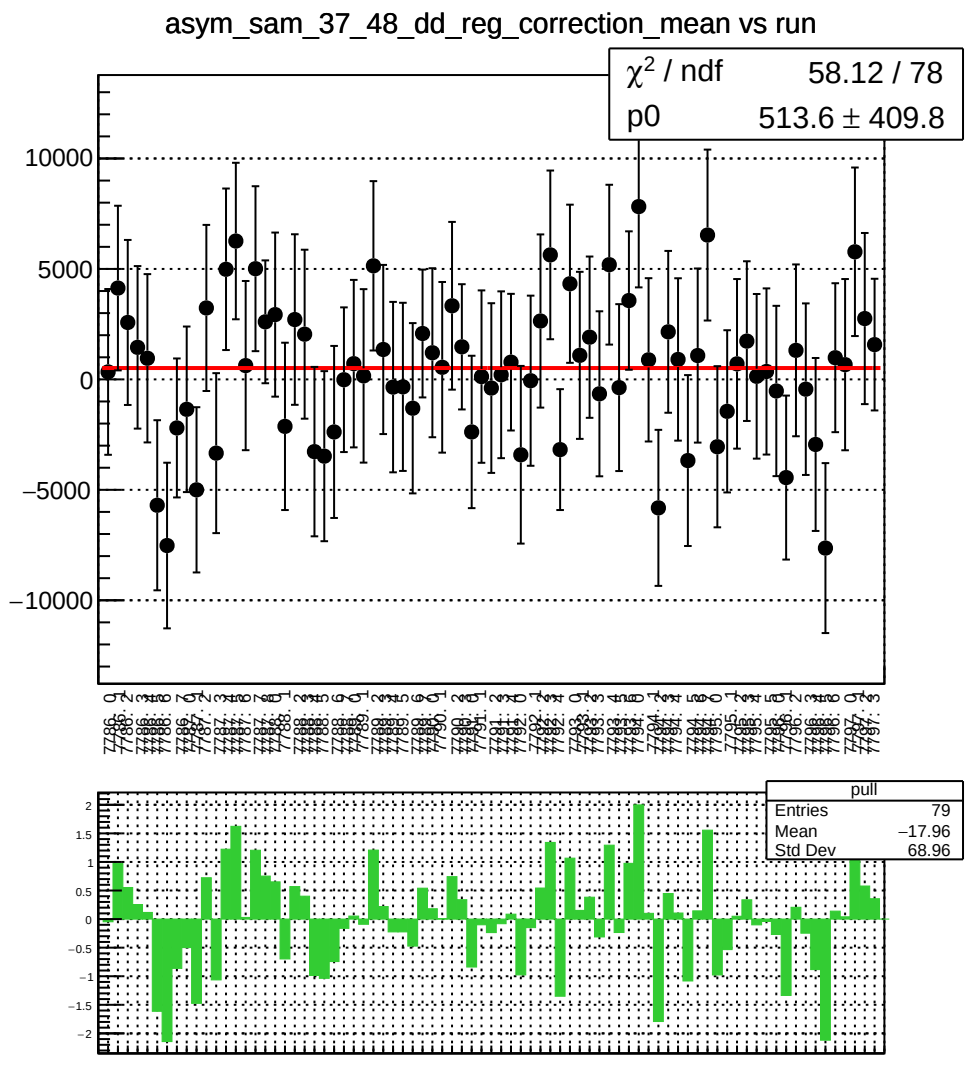

pull1D
Entries 79
Mean −0.03335
Std Dev 0.9476

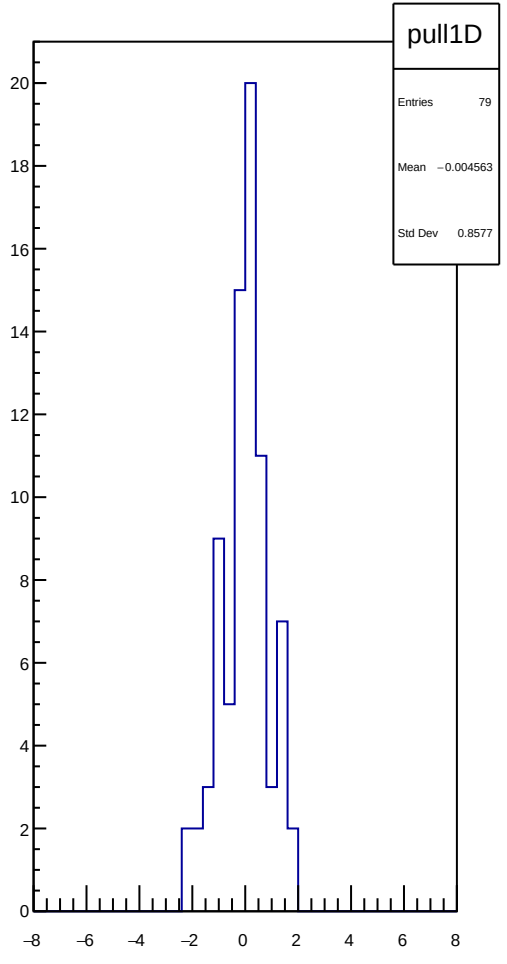

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.446e+05 / 78
p0 5.992e−11 ± 7.217e−14
0.6
0.5
0.4
0.3
0.2
0.1

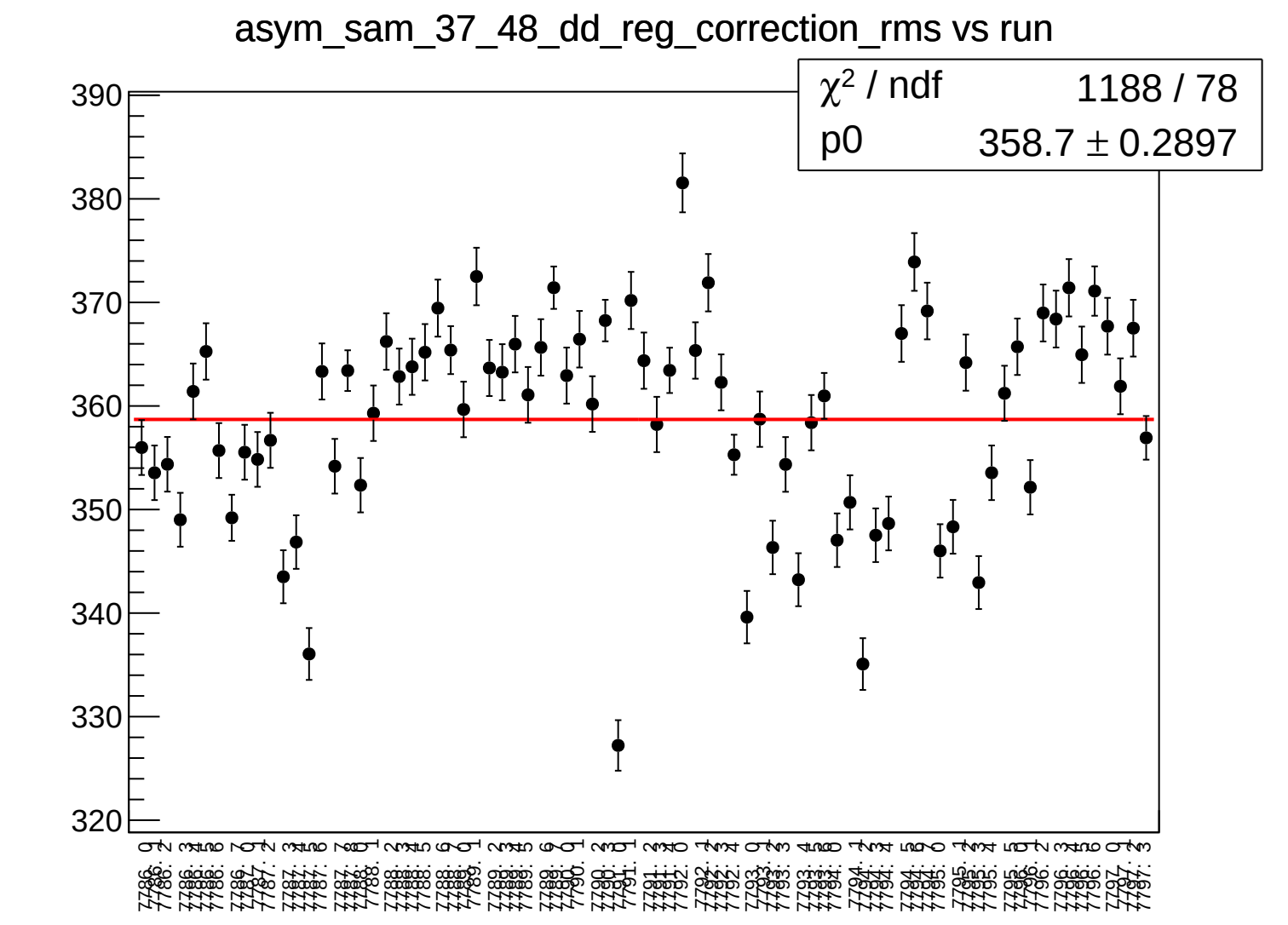

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 77.6 / 78
p0 68.74 ± 78.2
3000
2000
1000
0
−1000
−2000
pull
Entries 79
Mean −1275
Std Dev 0
3
2
1
0
−1
−2

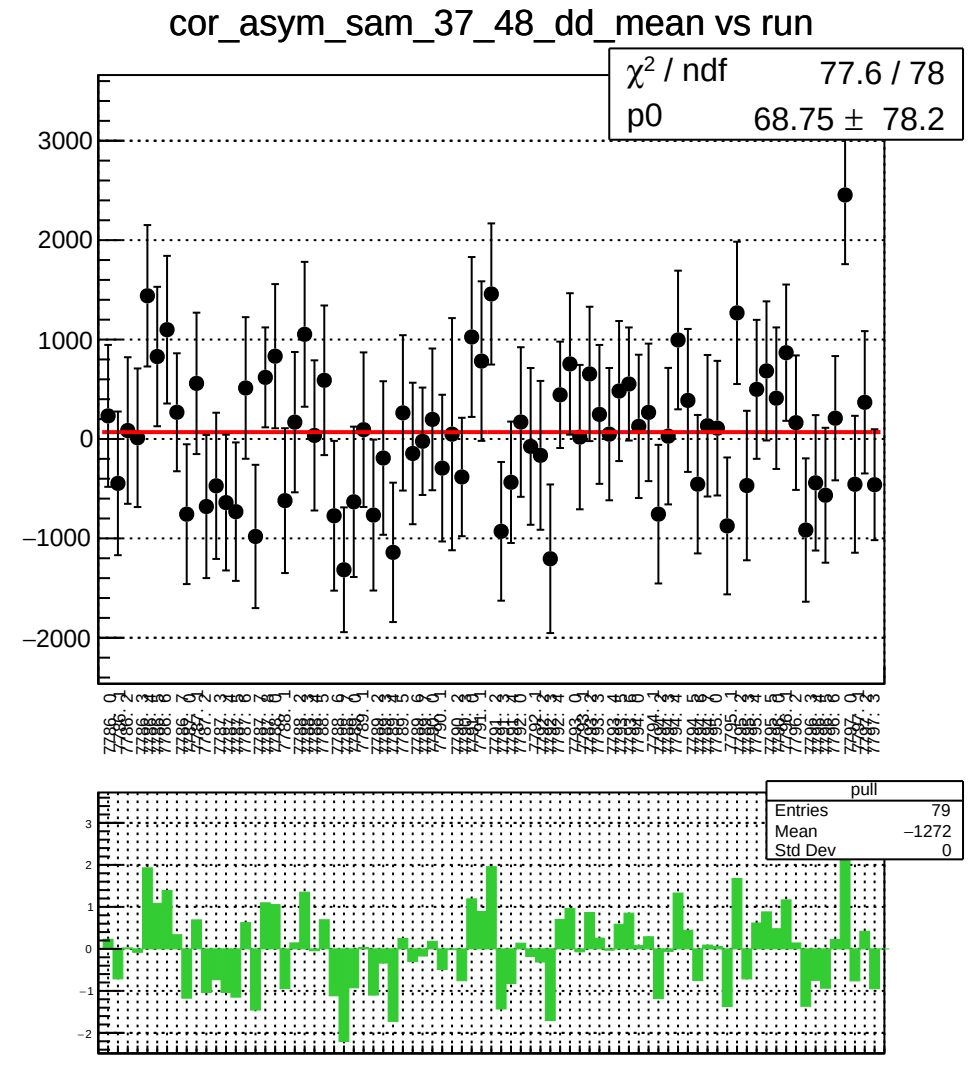

pull1D
Entries 79
Mean −0.0013
Std Dev 0.9911
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

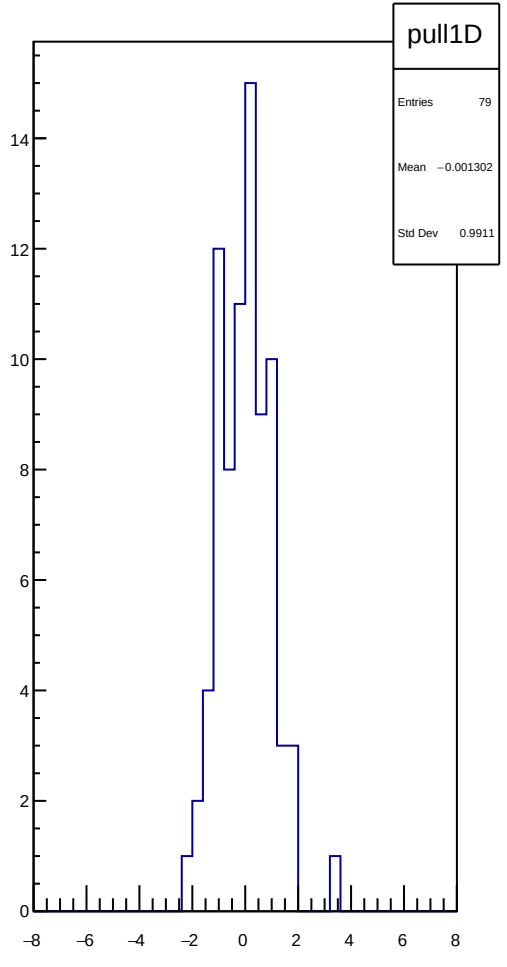

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 5507 / 78
p0 68.36 ± 0.0553
110
100
90
80
70
60

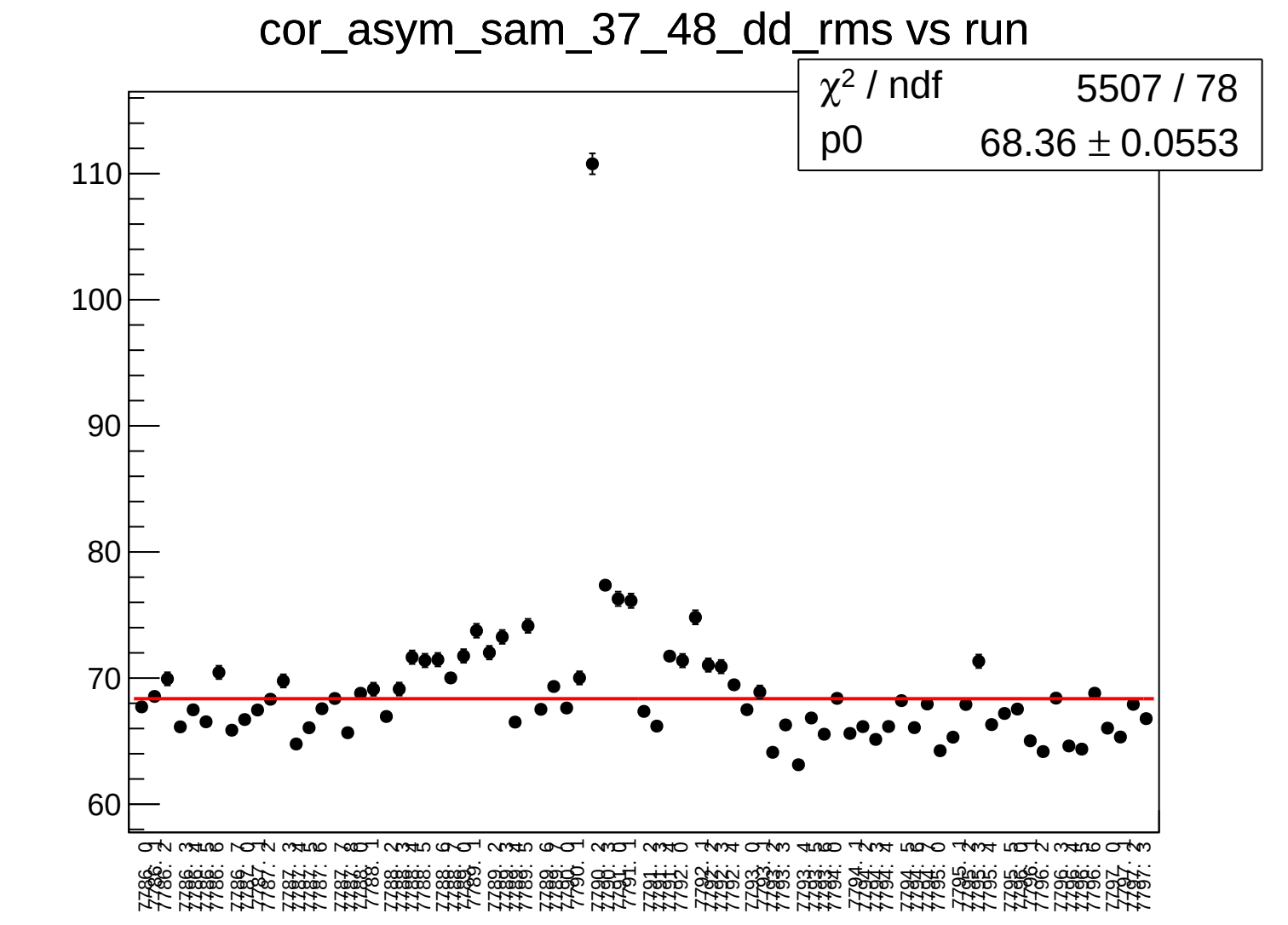

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 58.12 / 78
p0 513.6 ± 409.8
10000
5000
0
−5000
−10000
pull
Entries 79
Mean −17.96
Std Dev 68.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

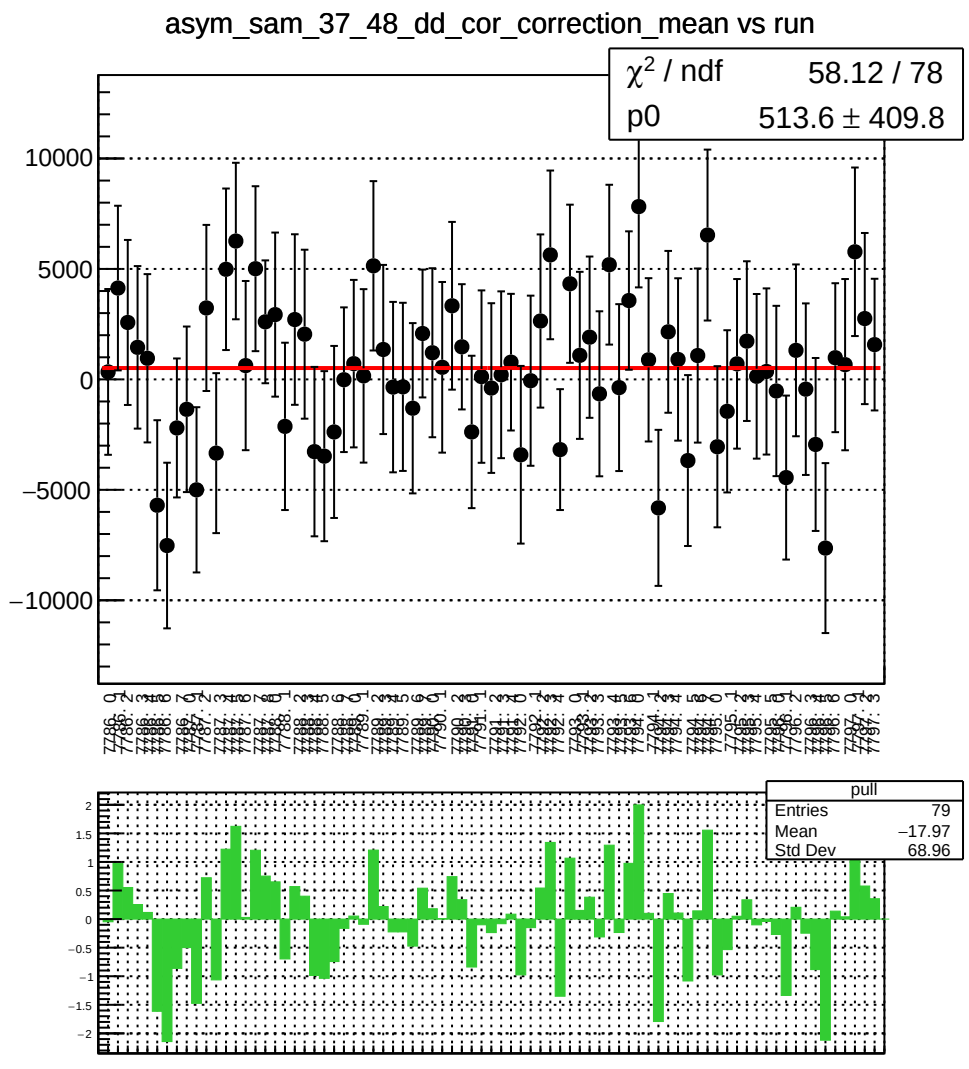

pull1D
Entries 79
Mean −0.004563
Std Dev 0.8577
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

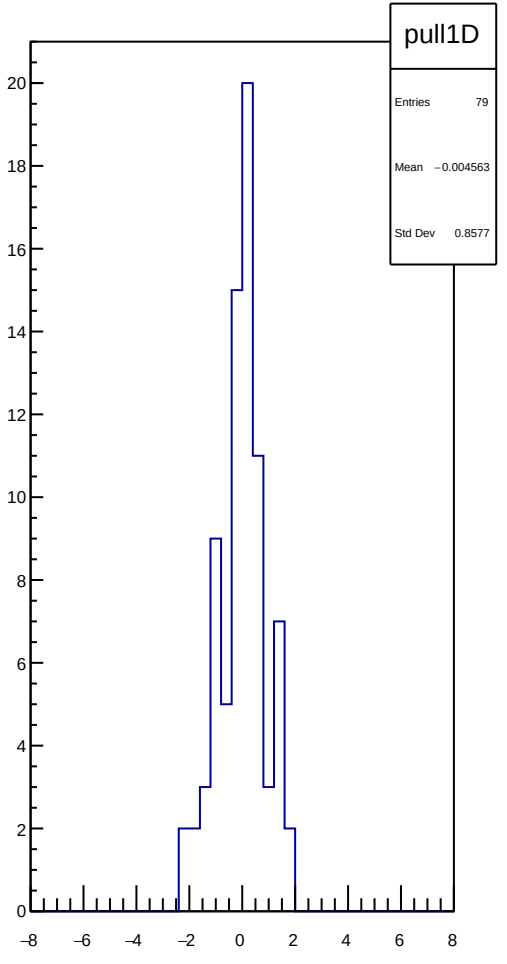

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1188 / 78
p0 358.7 ± 0.2897
390
380
370
360
350
340
330
320

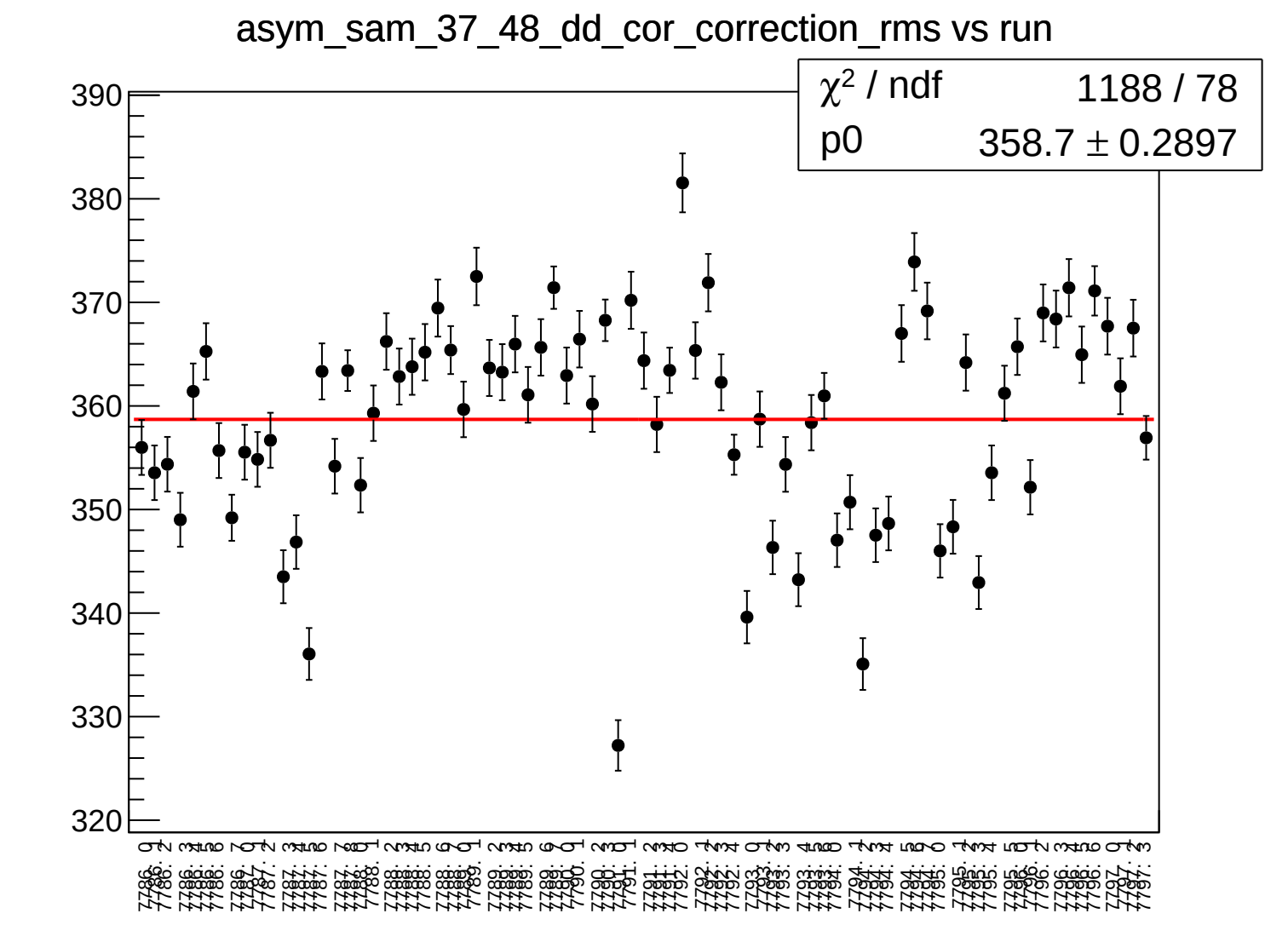

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 77.6 / 78
p0 68.75 ± 78.2
pull
Entries 79
Mean −1272
Std Dev 0

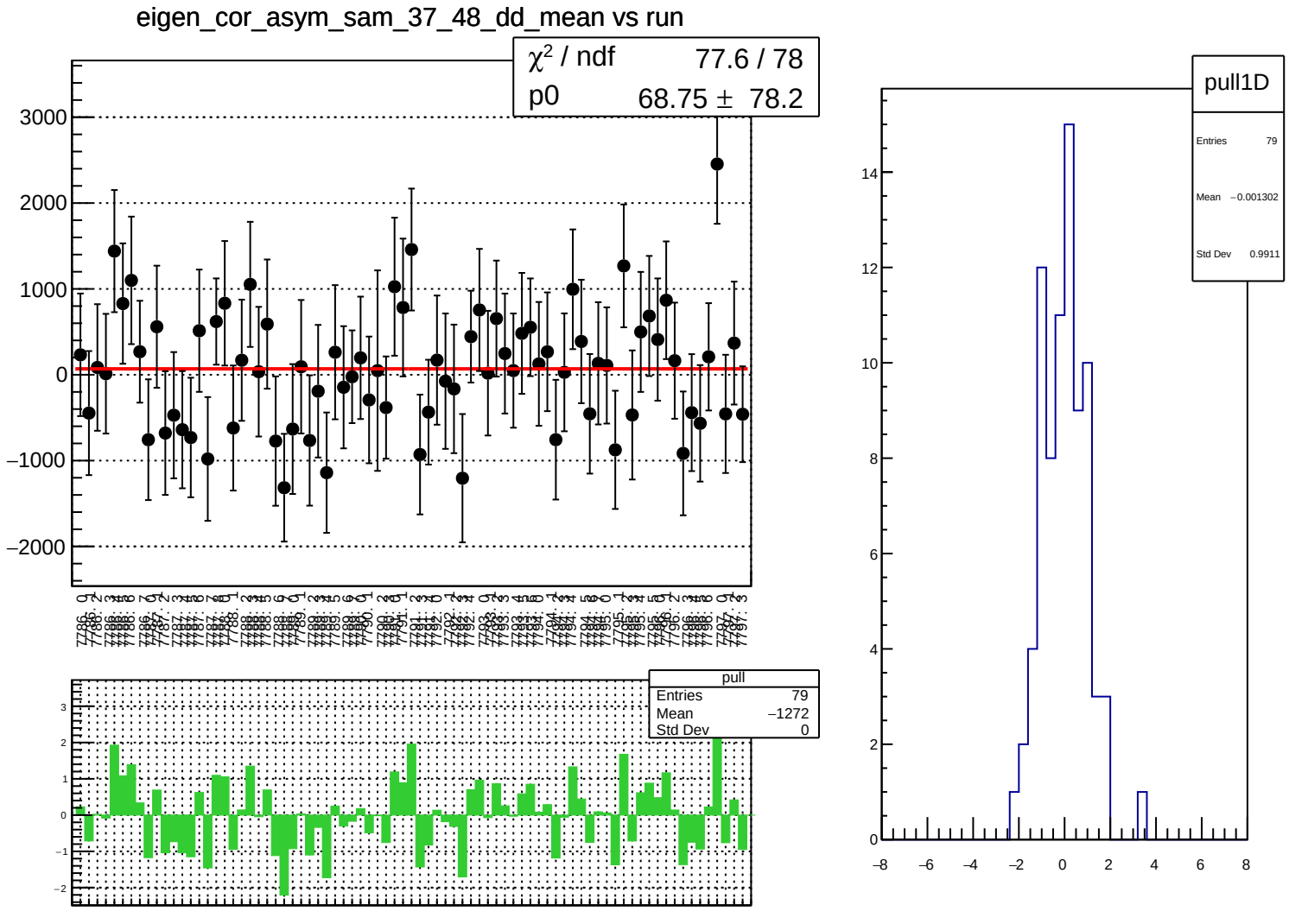

pull1D
Entries 79
Mean −0.001302
Std Dev 0.9911

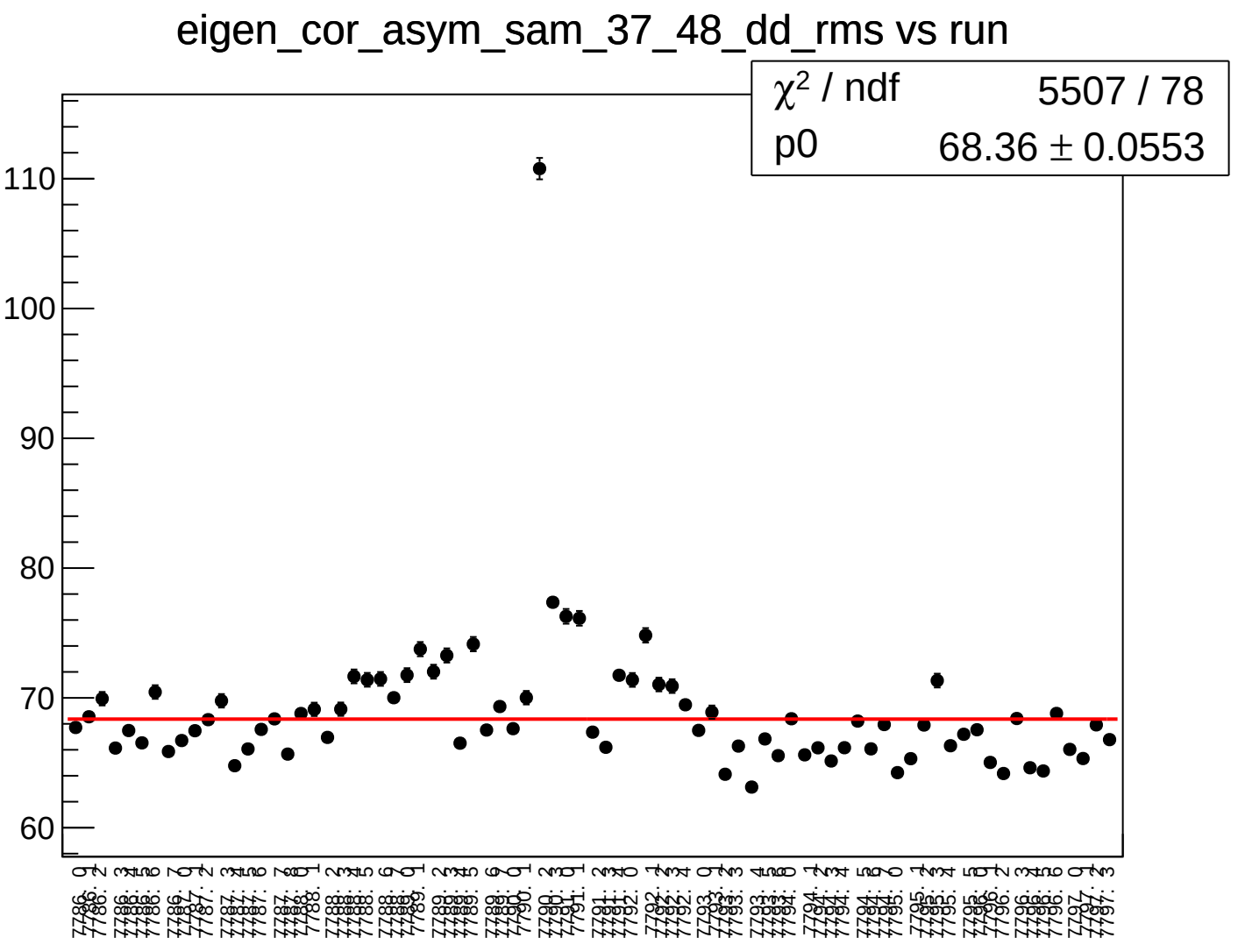

cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 5507 / 78
p0 68.36 ± 0.0553
110
100
90
80
70
60

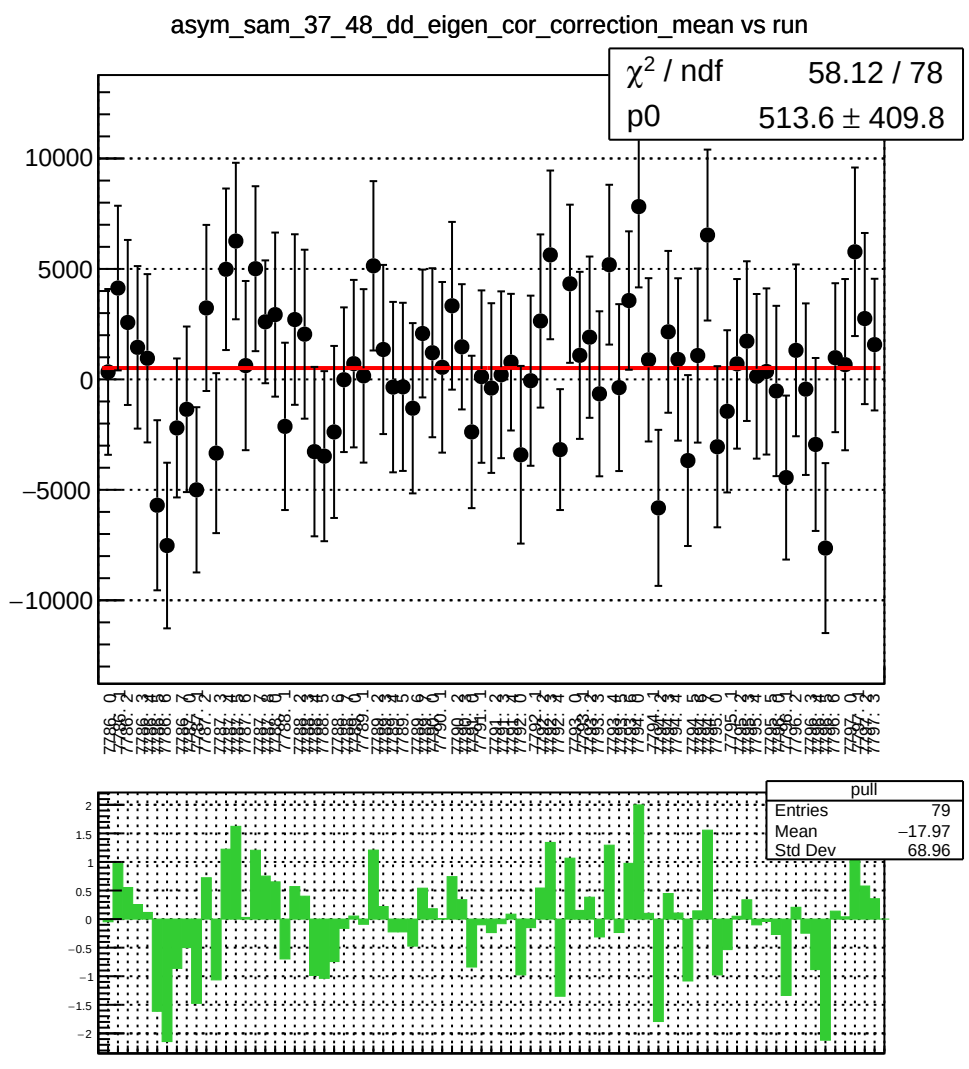

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 58.12 / 78
p0 513.6 ± 409.8
10000
5000
0
−5000
−10000
pull
Entries 79
Mean −17.97
Std Dev 68.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

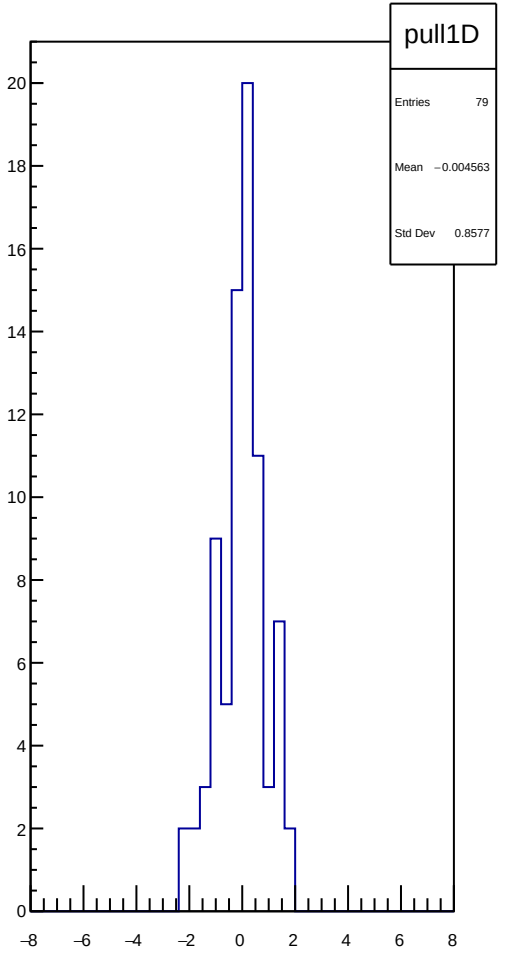

pull1D
Entries 79
Mean −0.004563
Std Dev 0.8577
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

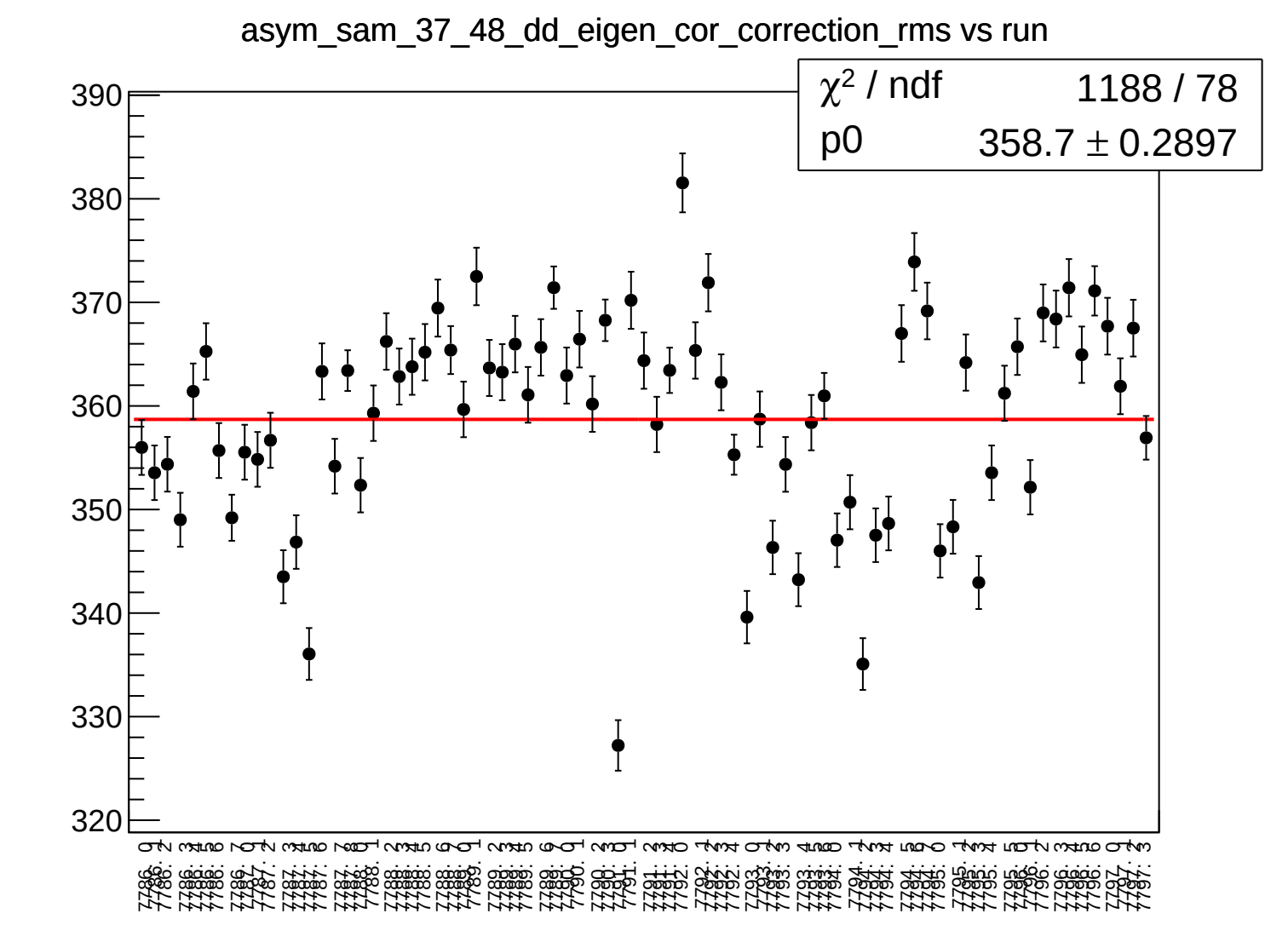

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1188 / 78
p0 358.7 ± 0.2897
390
380
370
360
350
340
330
320

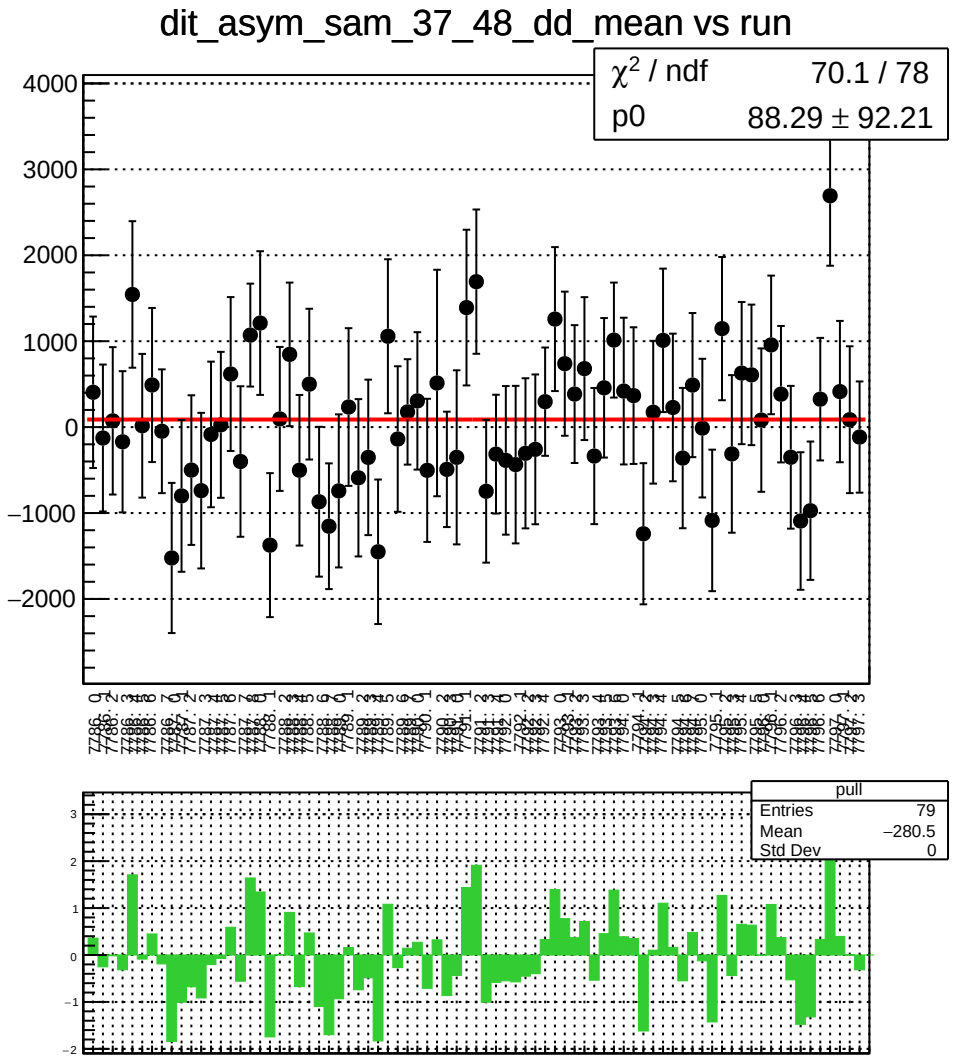

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 77.6 / 78
p0 68.75 ± 78.2
pull
Entries 79
Mean −1272
Std Dev 0
pull1D
Entries 79
Mean −0.001302
Std Dev 0.9911

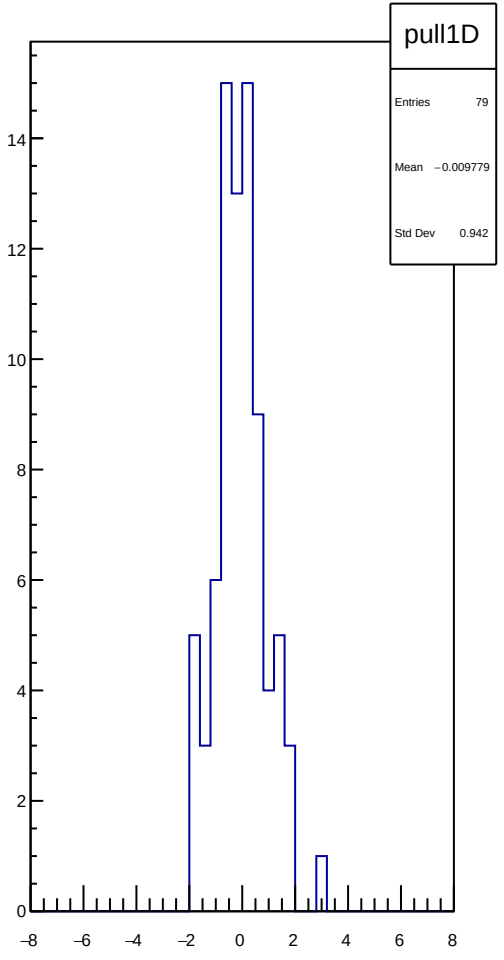

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 5507 / 78
p0 68.36 ± 0.0553
110
100
90
80
70
60

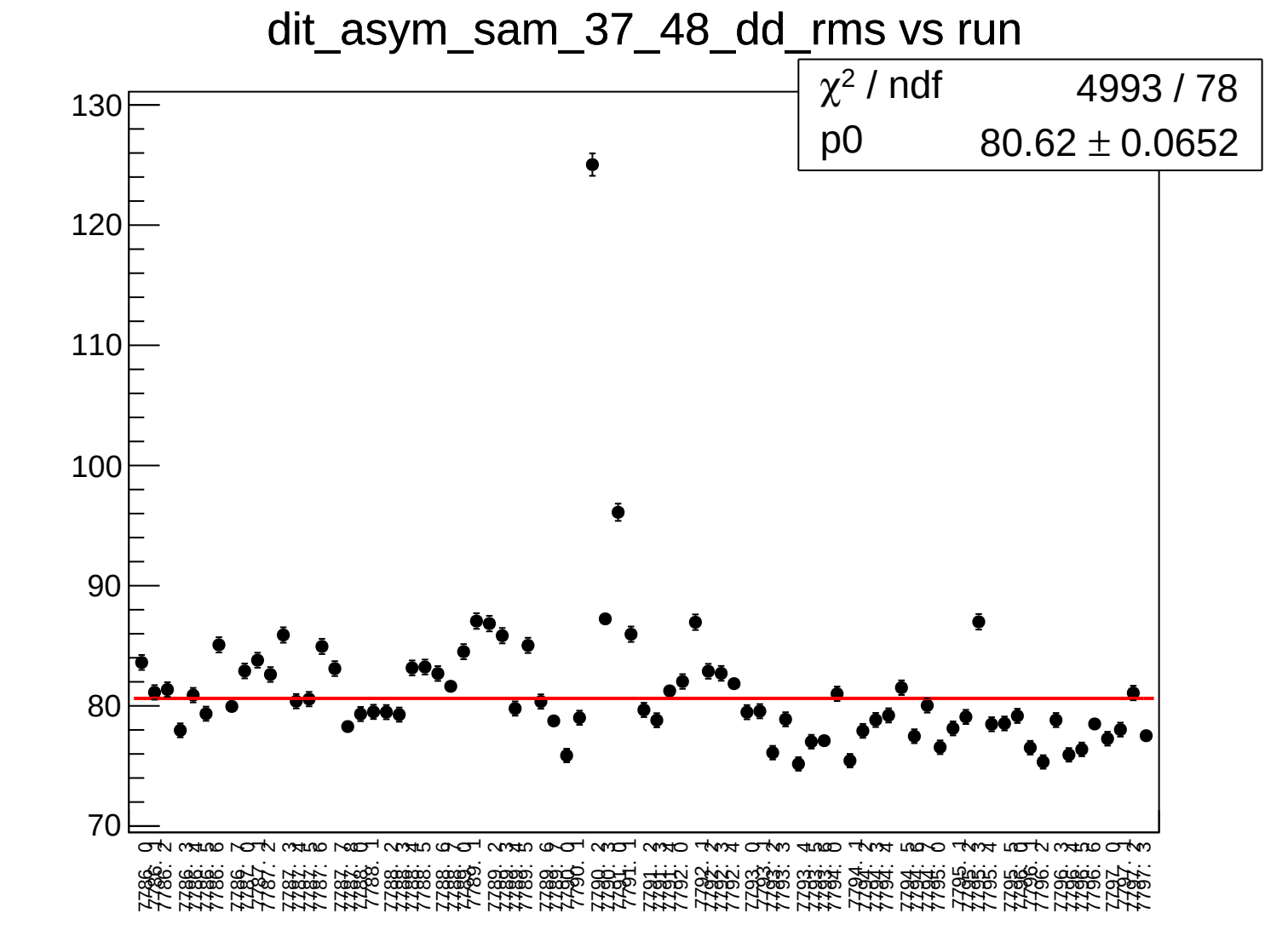

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 58.12 / 78
p0 513.6 ± 409.8
10000
5000
0
−5000
−10000
pull
Entries 79
Mean −17.97
Std Dev 68.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

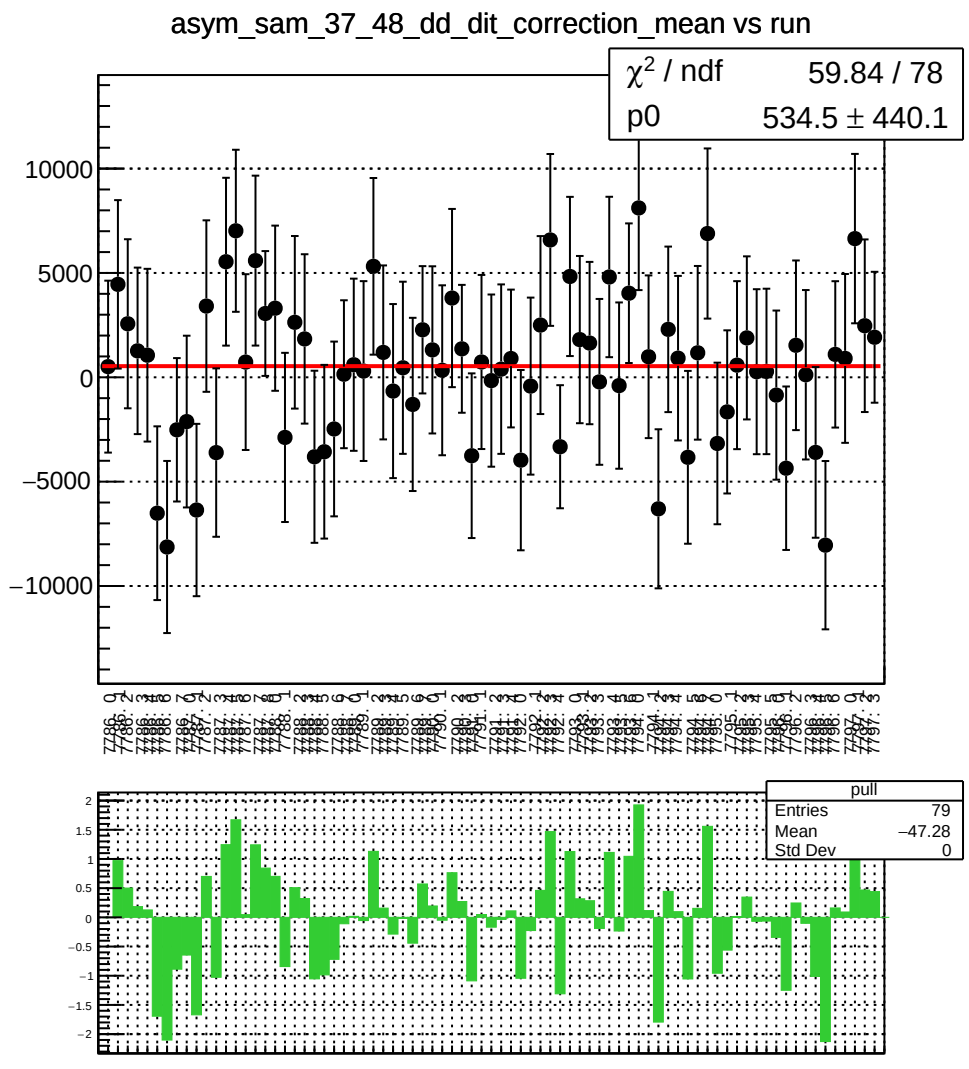

pull1D
Entries 79
Mean −0.004563
Std Dev 0.8577
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

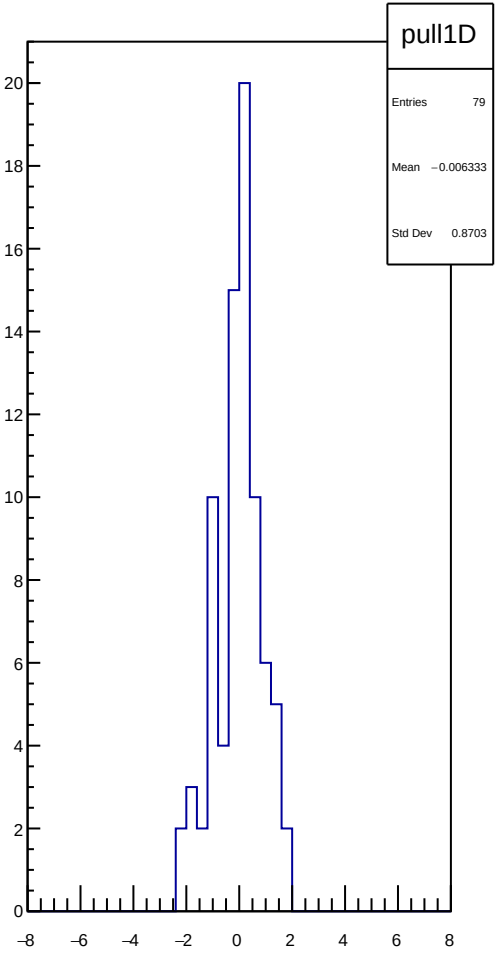

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1188 / 78
p0 358.7 ± 0.2897
390
380
370
360
350
340
330
320

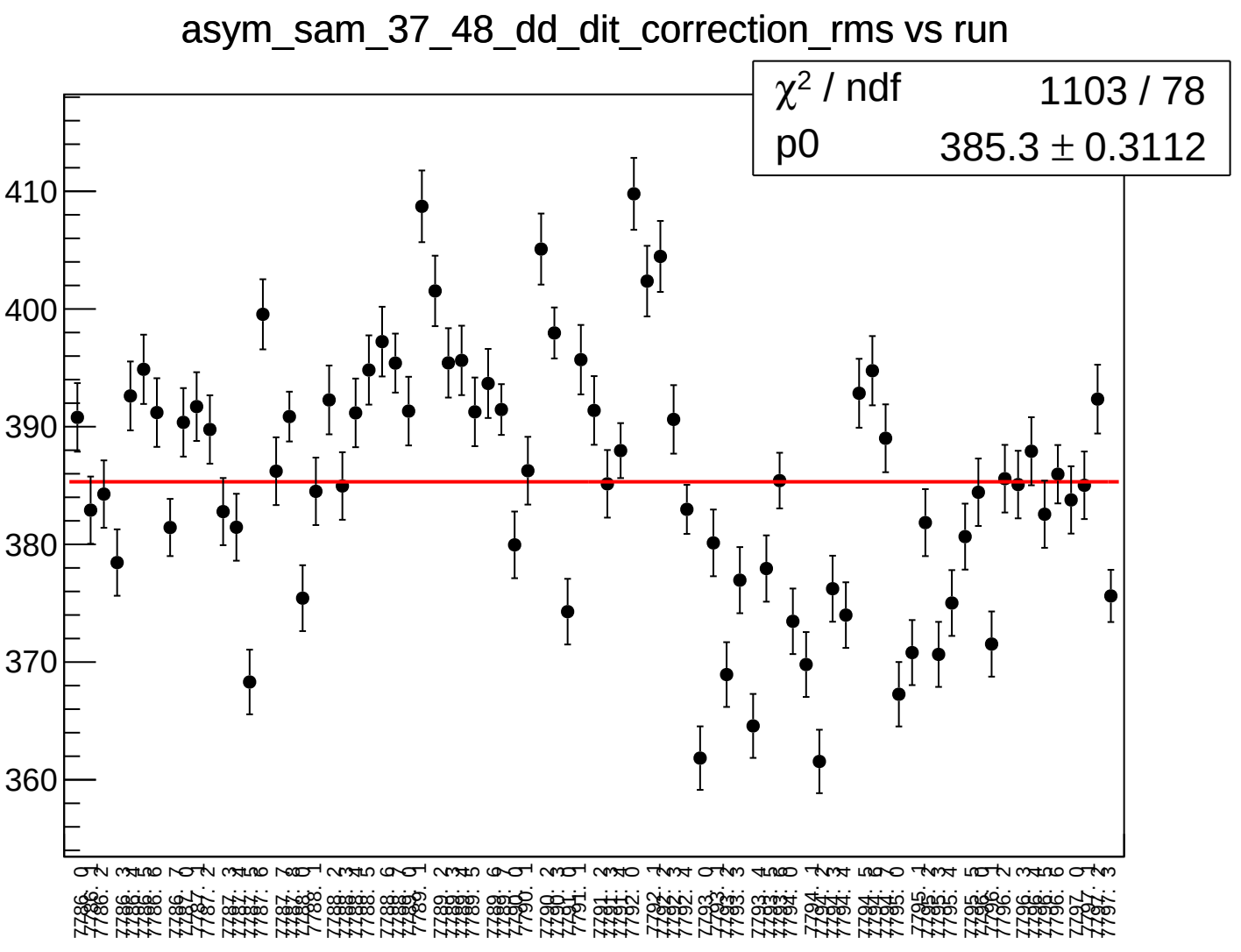

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 70.1 / 78
p0 88.29 ± 92.21
pull
Entries 79
Mean −280.5
Std Dev 0

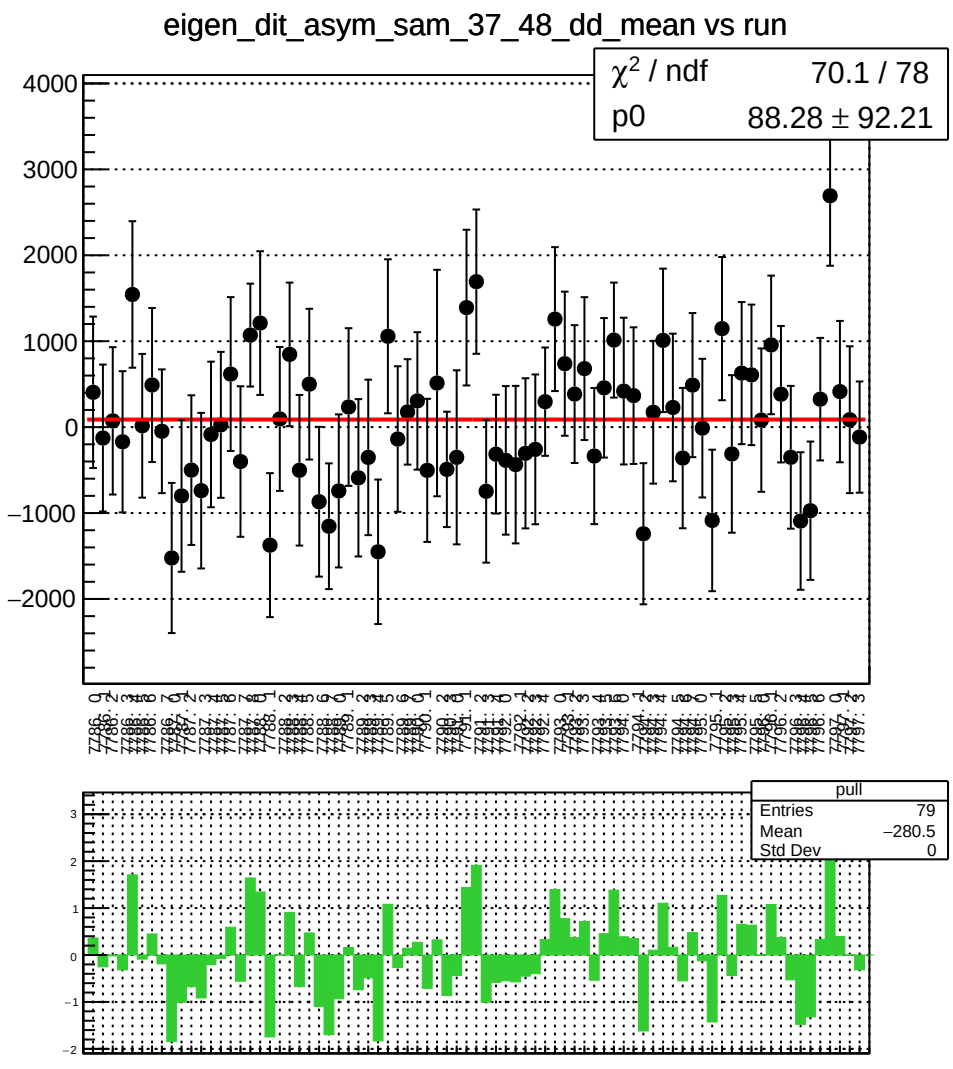

pull1D
Entries 79
Mean −0.009779
Std Dev 0.942

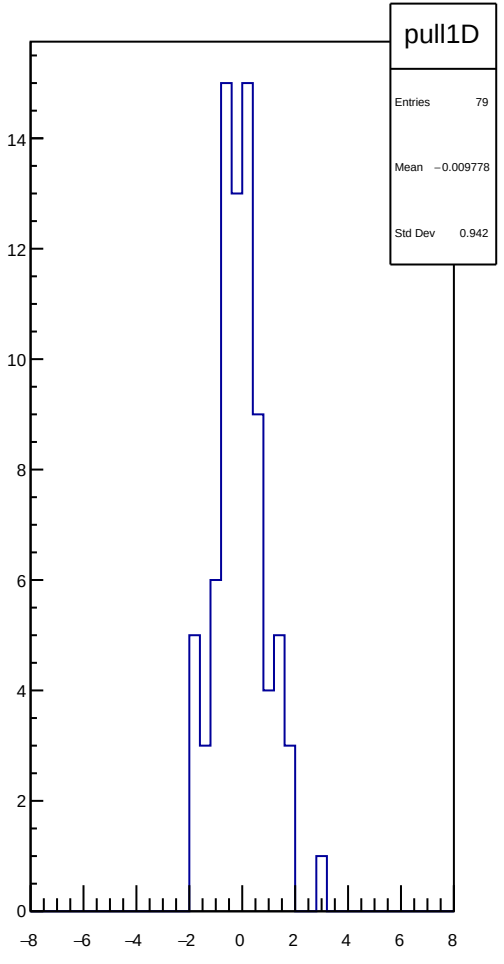

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4993 / 78
p0 80.62 ± 0.0652
130
120
110
100
90
80
70

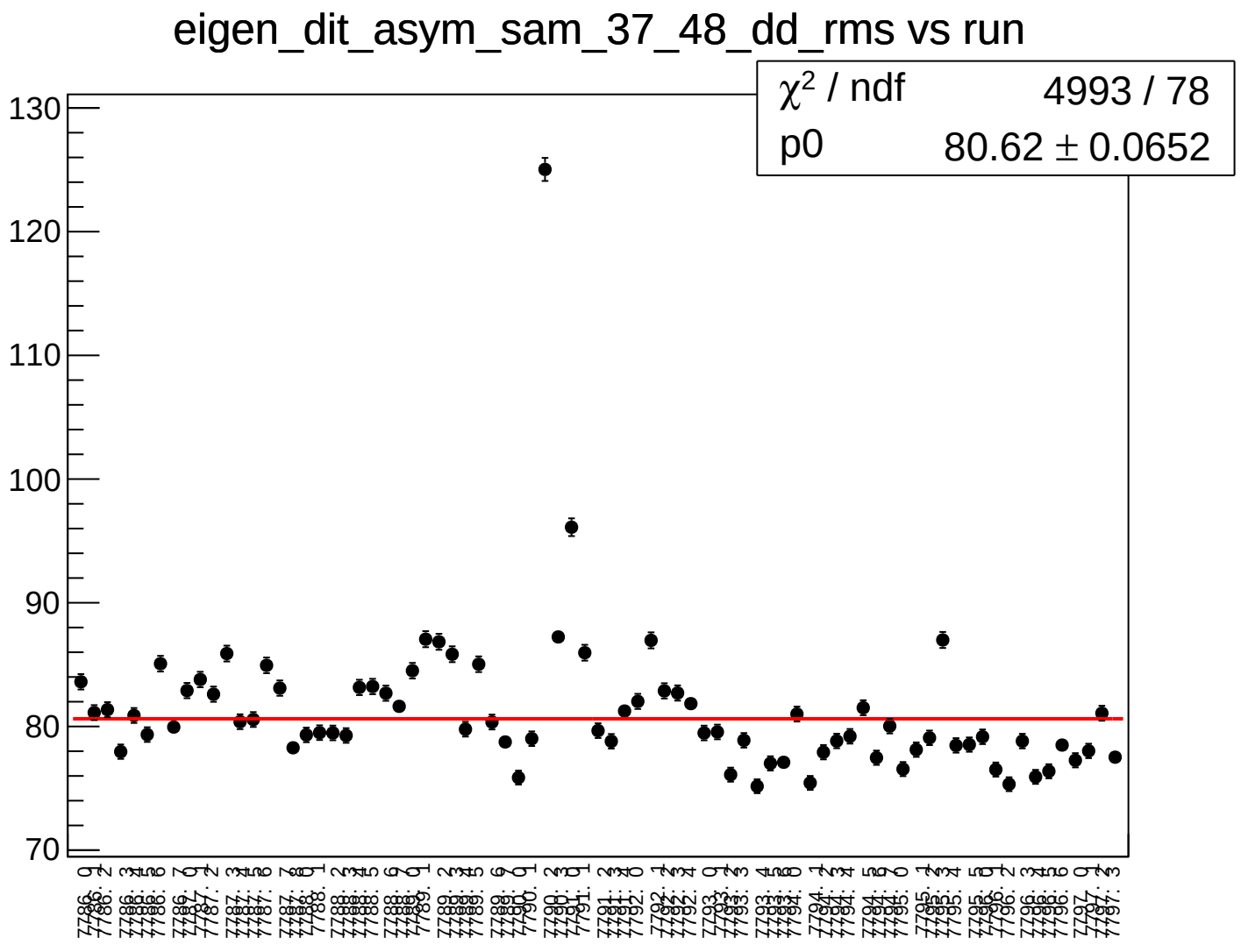

asym_sam_37_48_dd_dit_correction_mean vs run
χ^2 / ndf 59.84 / 78
p0 534.5 ± 440.1
10000
5000
0
−5000
−10000
pull
Entries 79
Mean −47.28
Std Dev 0

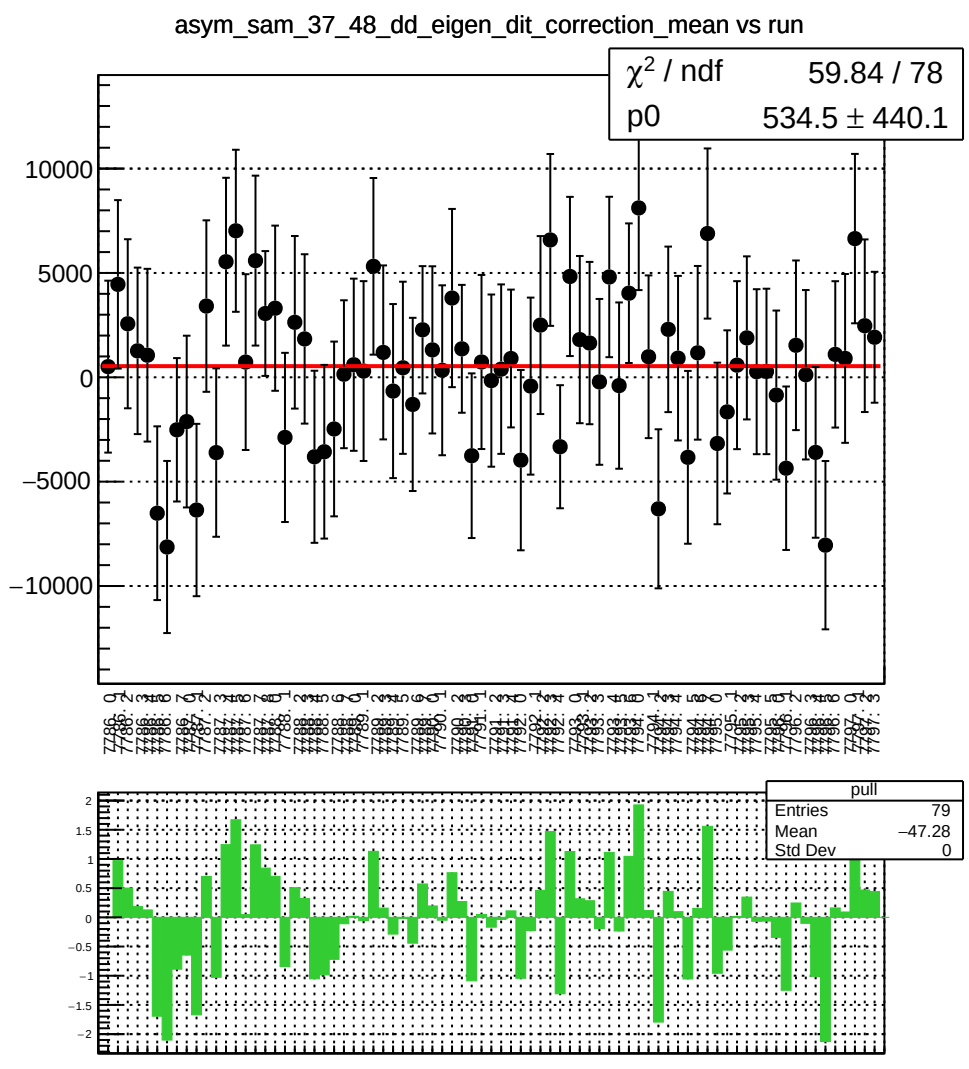

pull1D
Entries 79
Mean −0.006333
Std Dev 0.8703

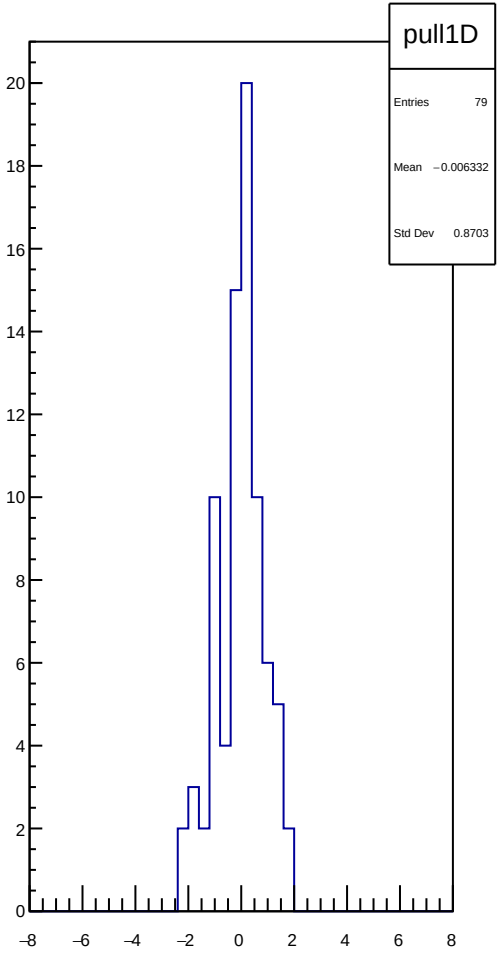

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1103 / 78
p0 385.3 ± 0.3112
410
400
390
380
370
360

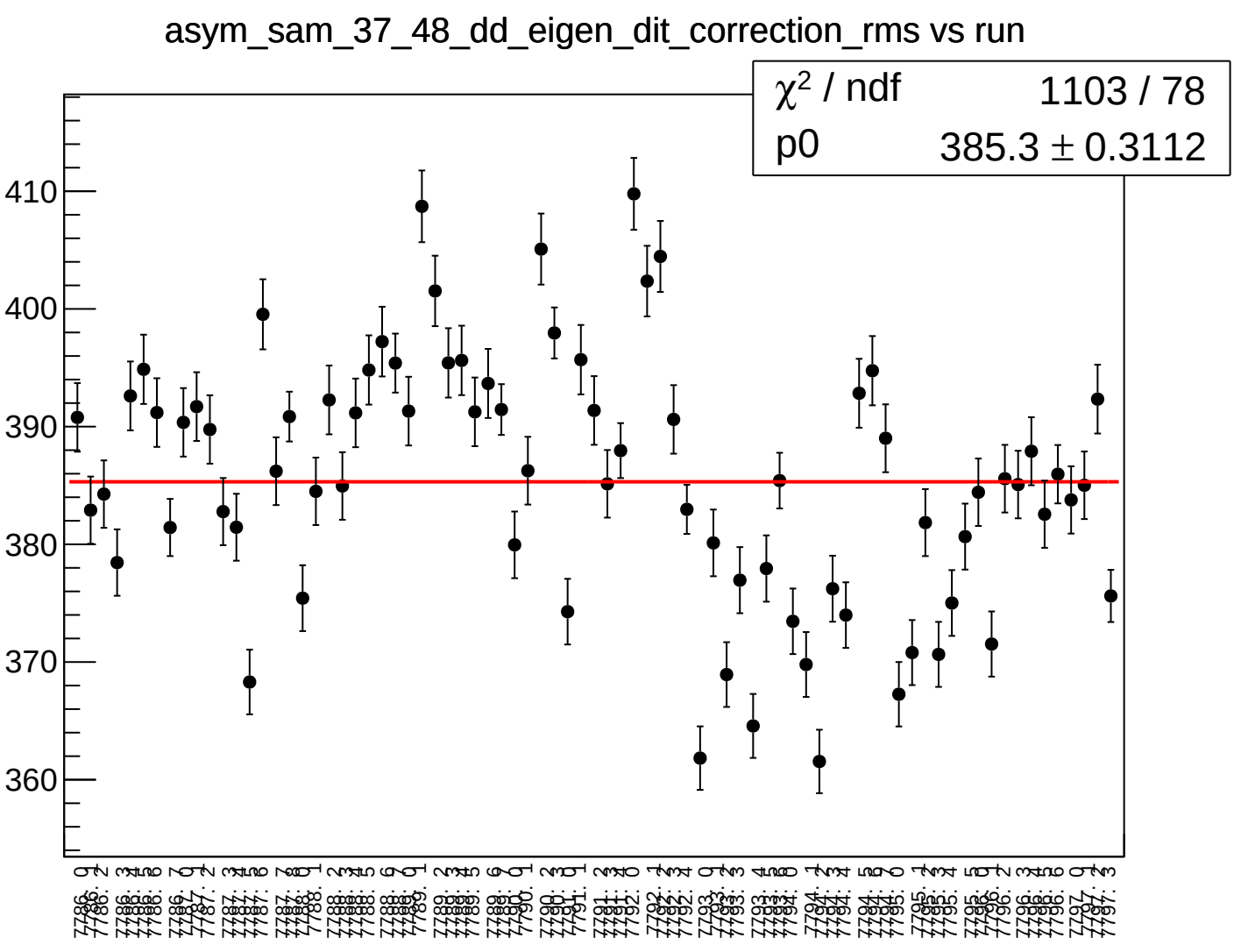

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 70.1 / 78
p0 88.28 ± 92.21
pull
Entries 79
Mean −280.5
Std Dev 0

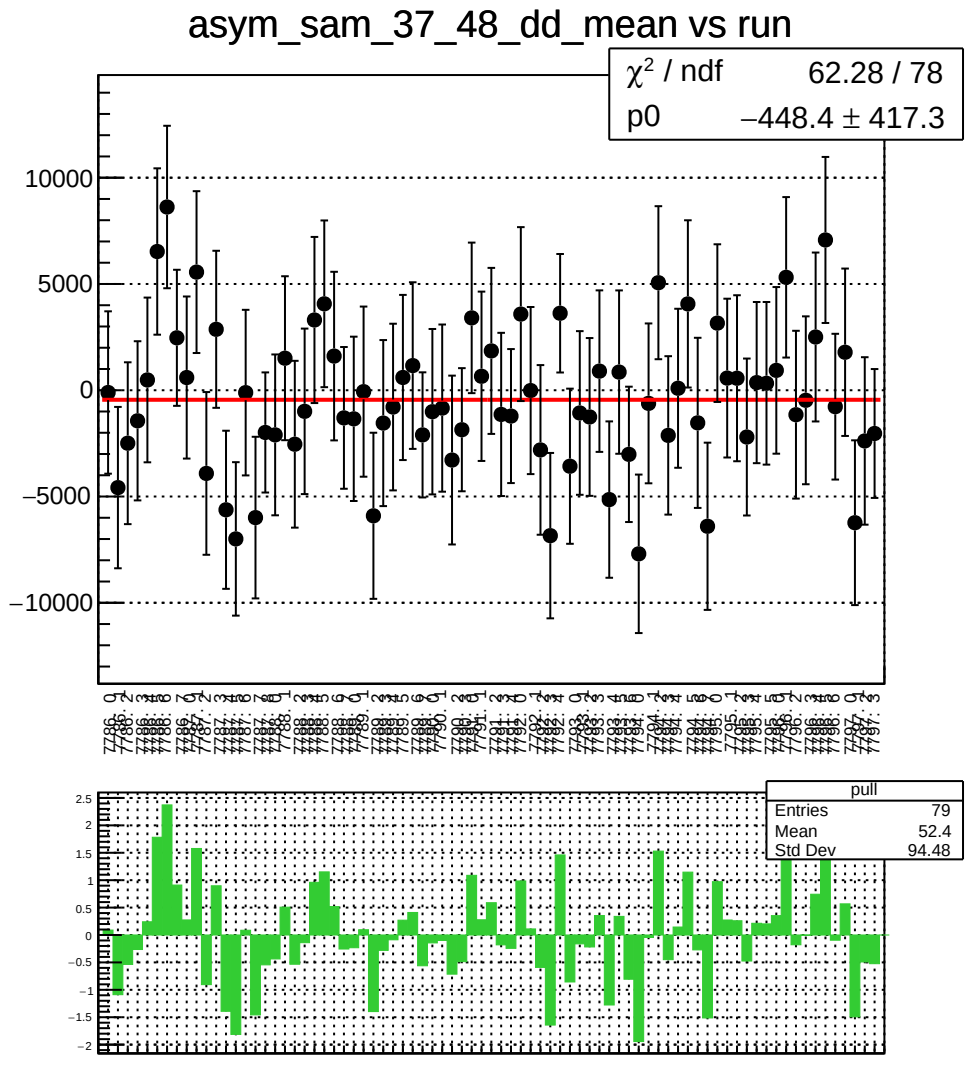

pull1D
Entries 79
Mean −0.009778
Std Dev 0.942

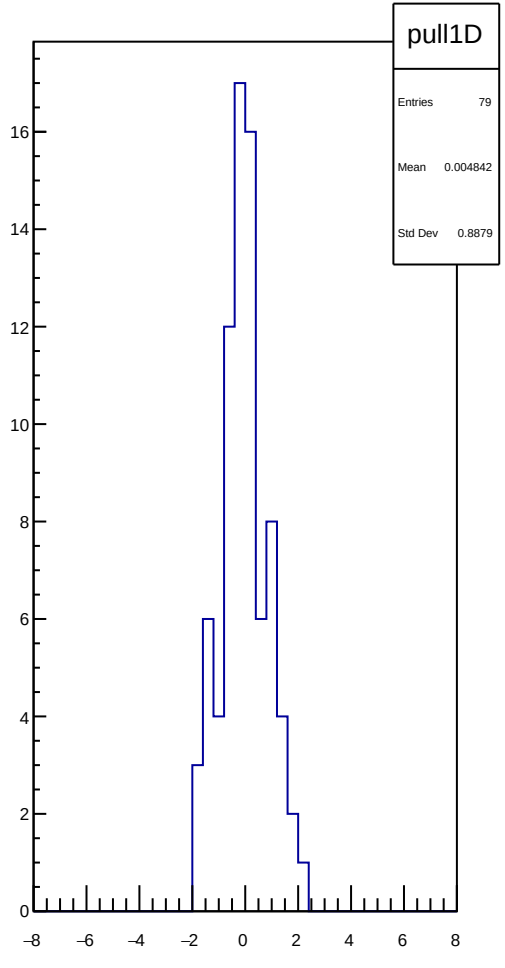

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 4993 / 78
p0 80.62 ± 0.0652
130
120
110
100
90
80
70

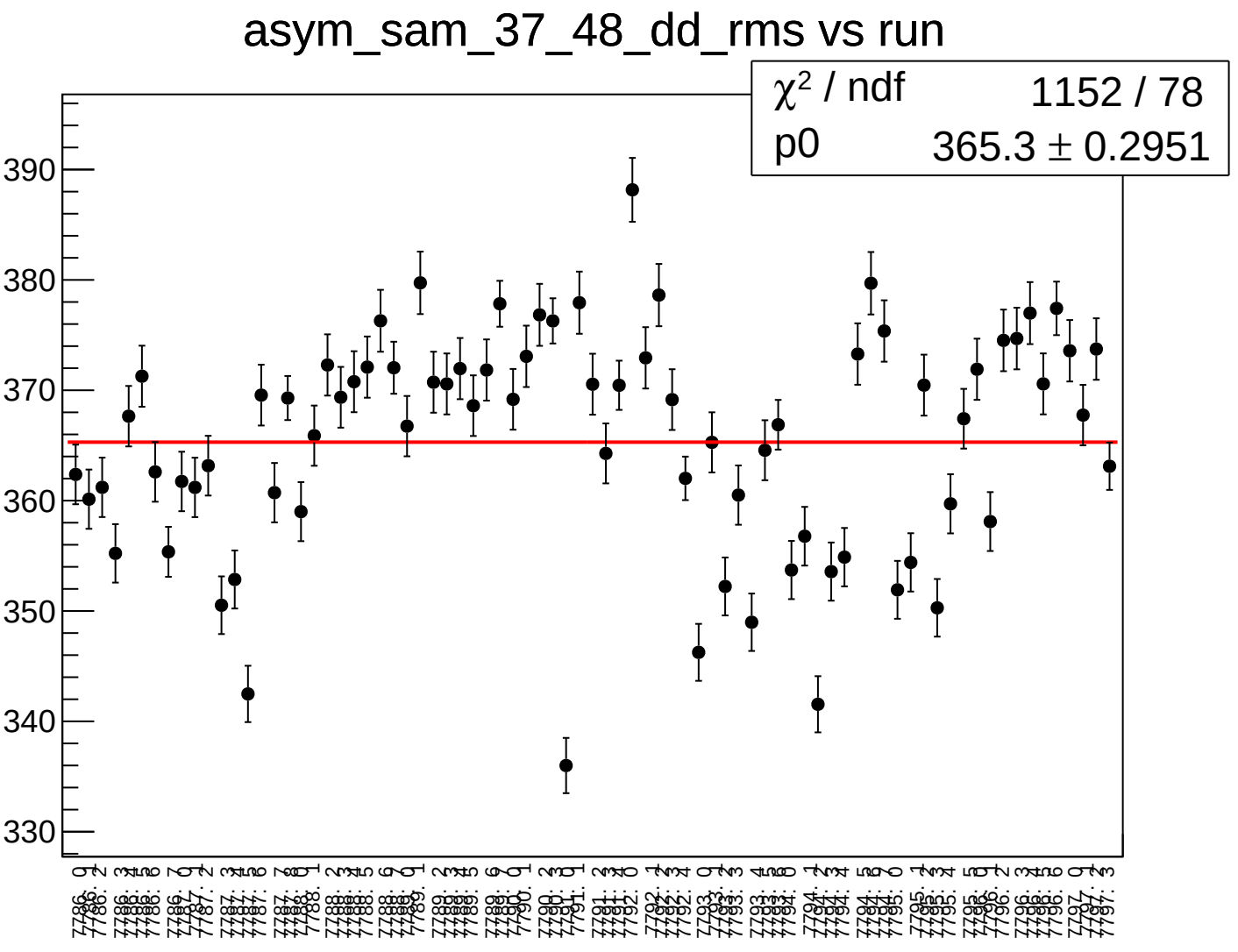

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 59.84 / 78
p0 534.5 ± 440.1
10000
5000
0
−5000
−10000
pull
Entries 79
Mean −47.28
Std Dev 0

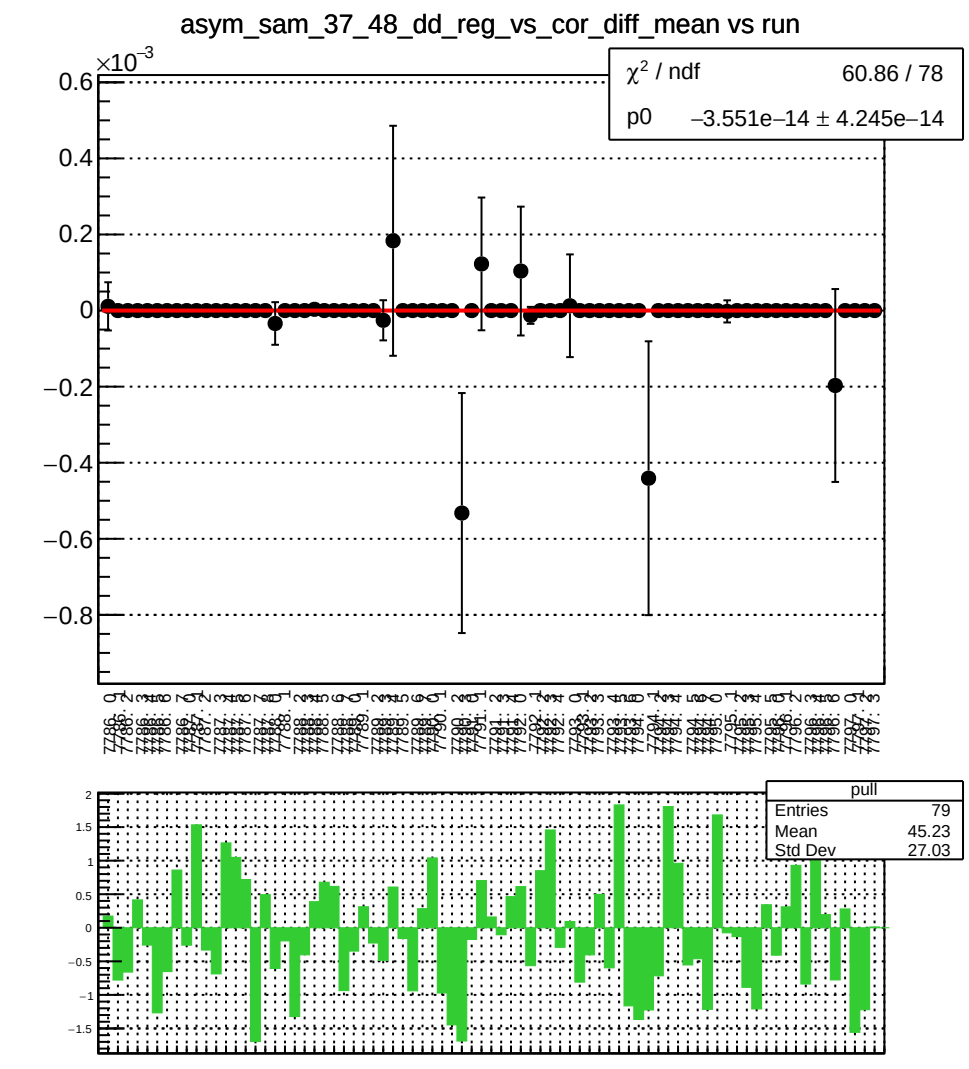

pull1D
Entries 79
Mean −0.006332
Std Dev 0.8703

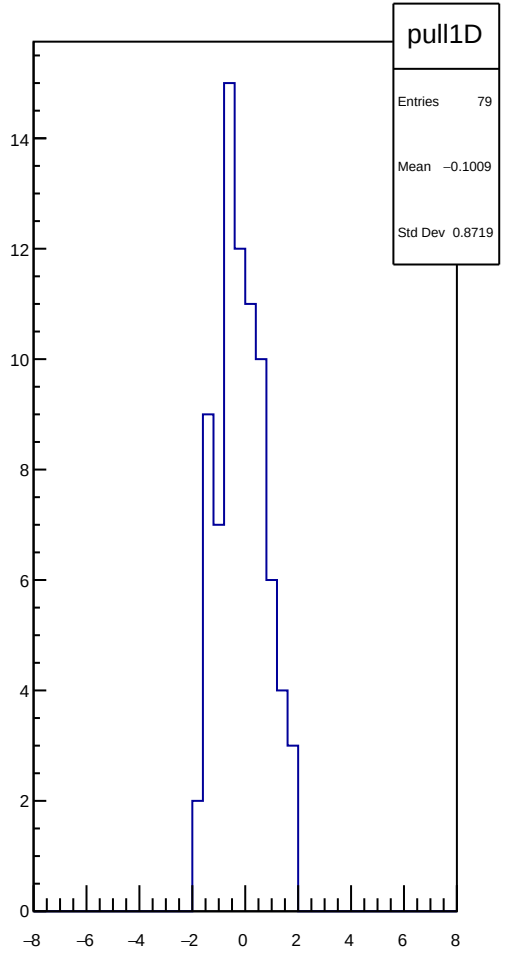

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1103 / 78
p0 385.3 ± 0.3112
410
400
390
380
370
360

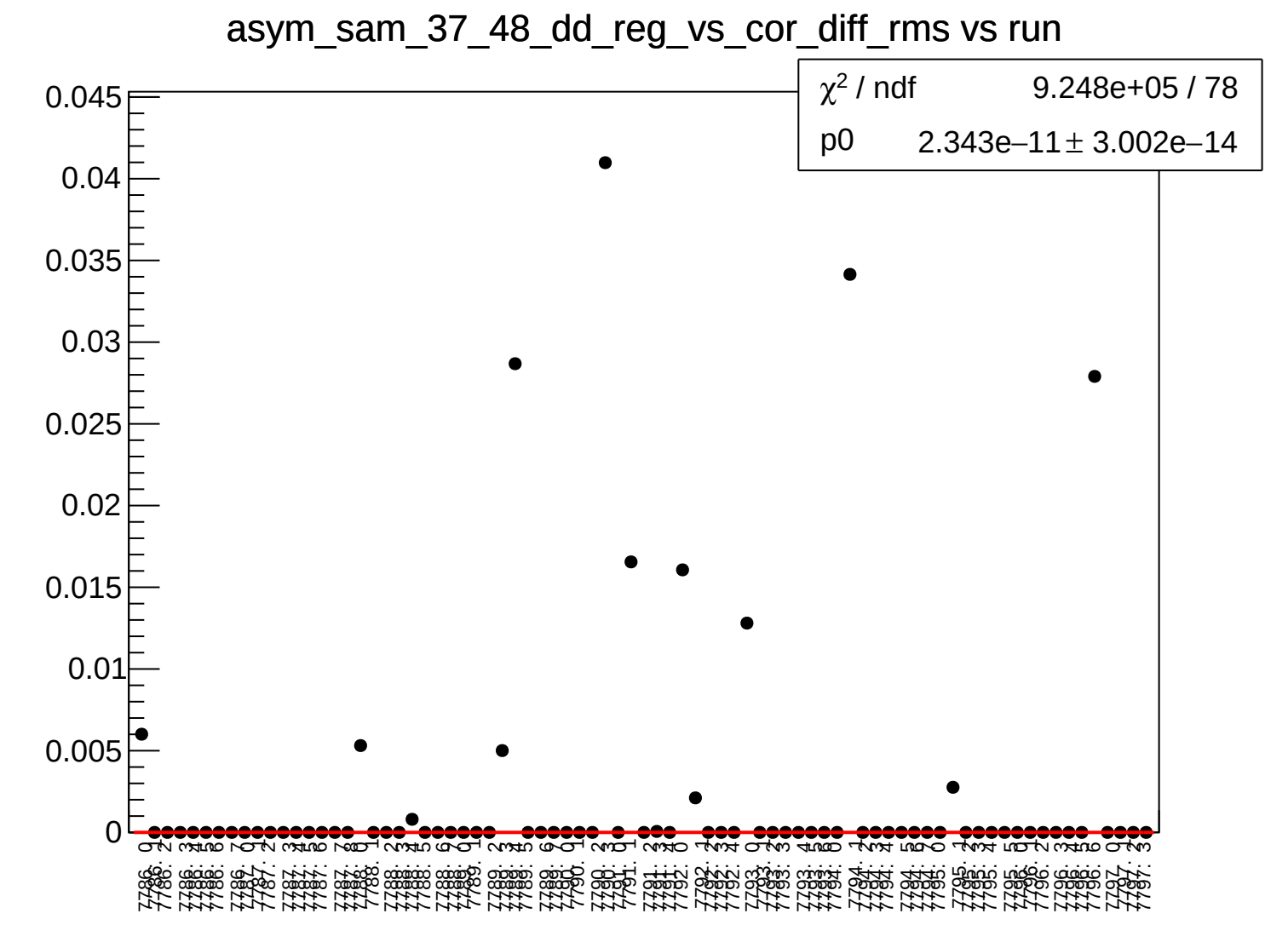

asym_sam_37_48_dd_mean vs run
χ² / ndf 62.28 / 78
p0 −448.4 ± 417.3
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 52.4
Std Dev 94.48
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

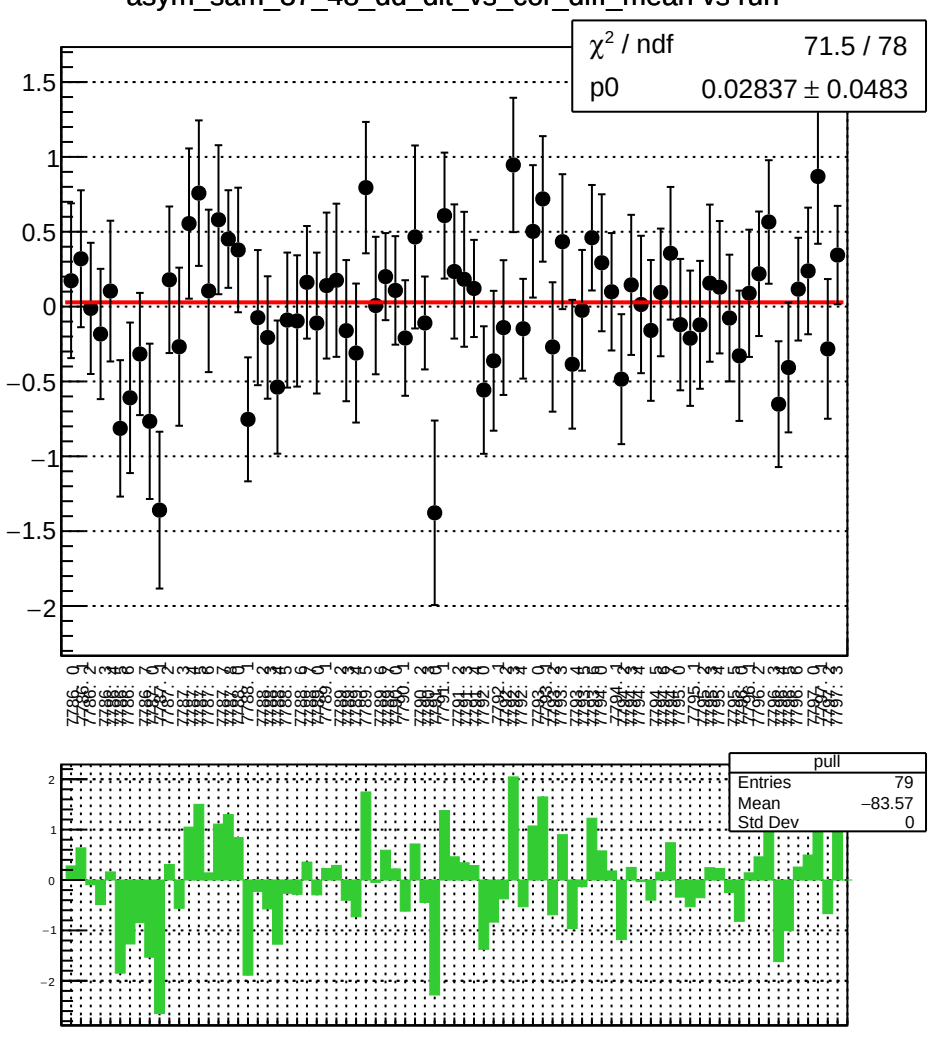

pull1D
Entries 79
Mean 0.004842
Std Dev 0.8879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

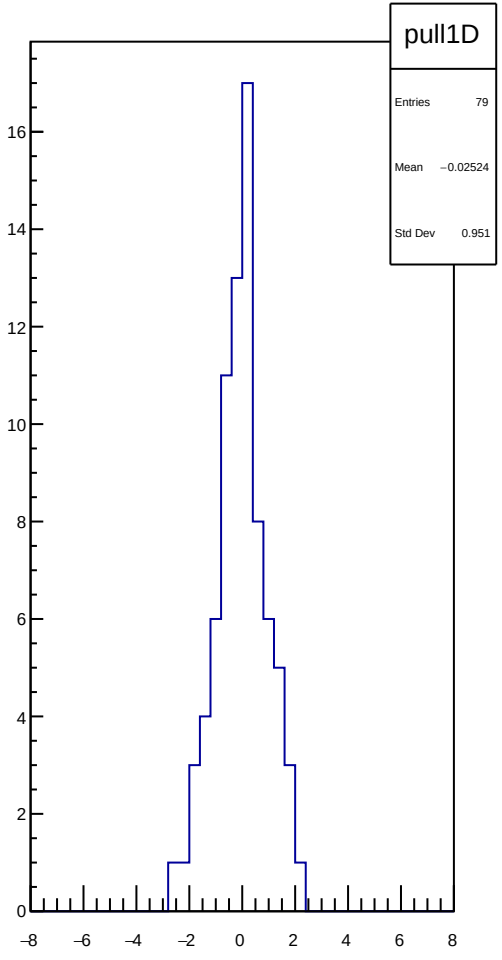

asym_sam_37_48_dd_rms vs run
χ² / ndf 1152 / 78
p0 365.3 ± 0.2951
390
380
370
360
350
340
330

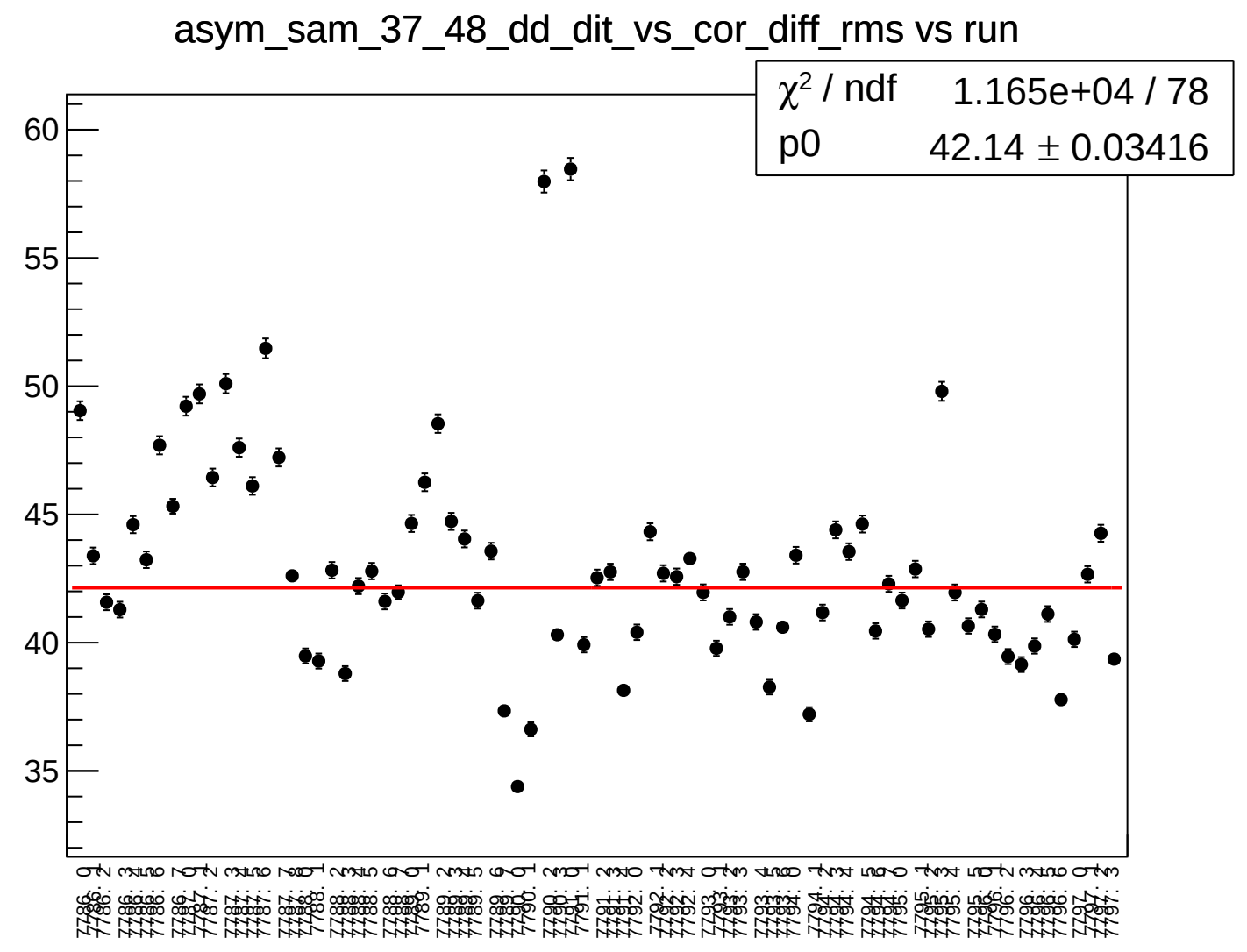

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 60.86 / 78
p0 −3.551e−14 ± 4.245e−14
pull
Entries 79
Mean 45.23
Std Dev 27.03

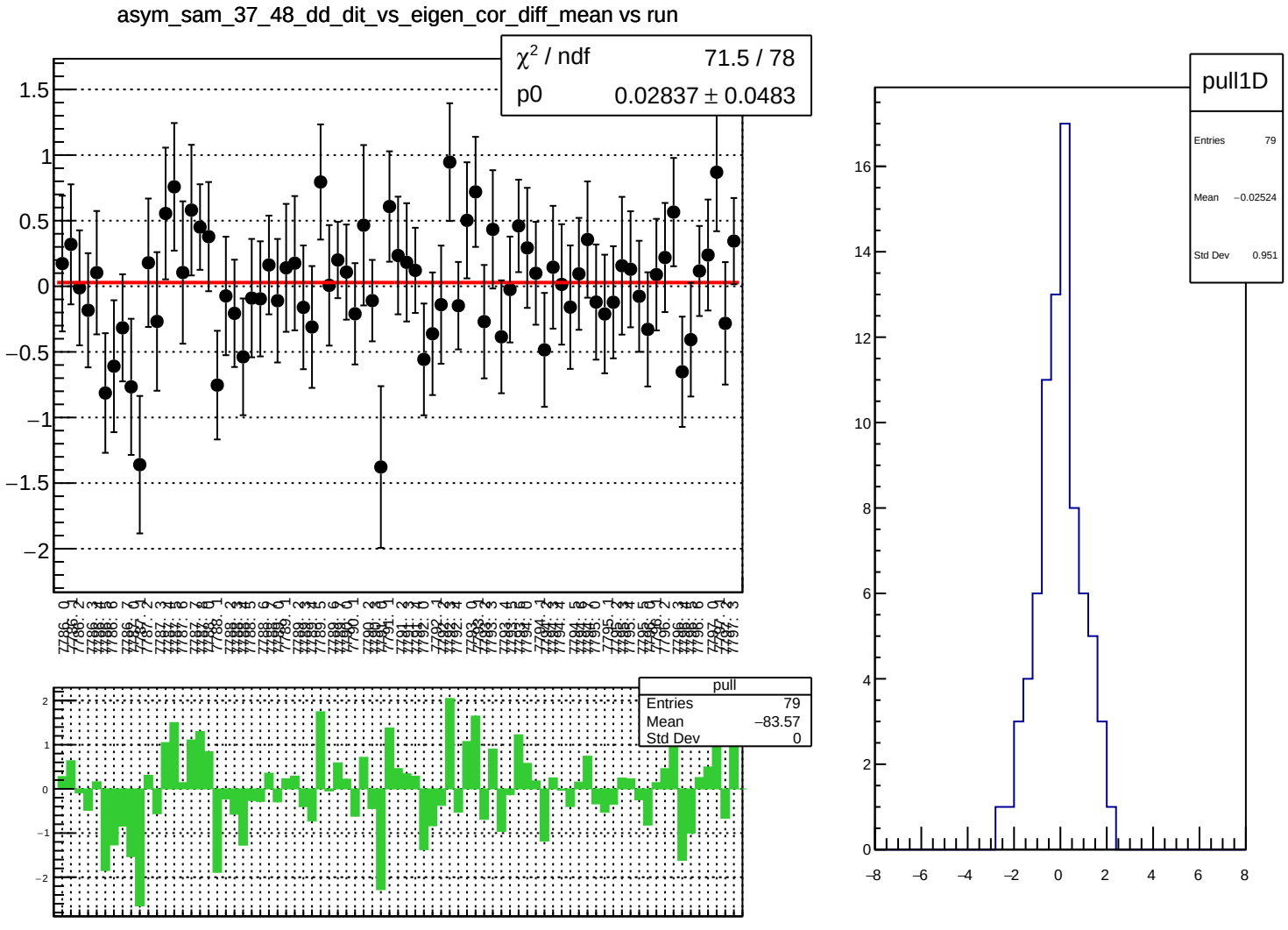

pull1D
Entries 79
Mean −0.1009
Std Dev 0.8719

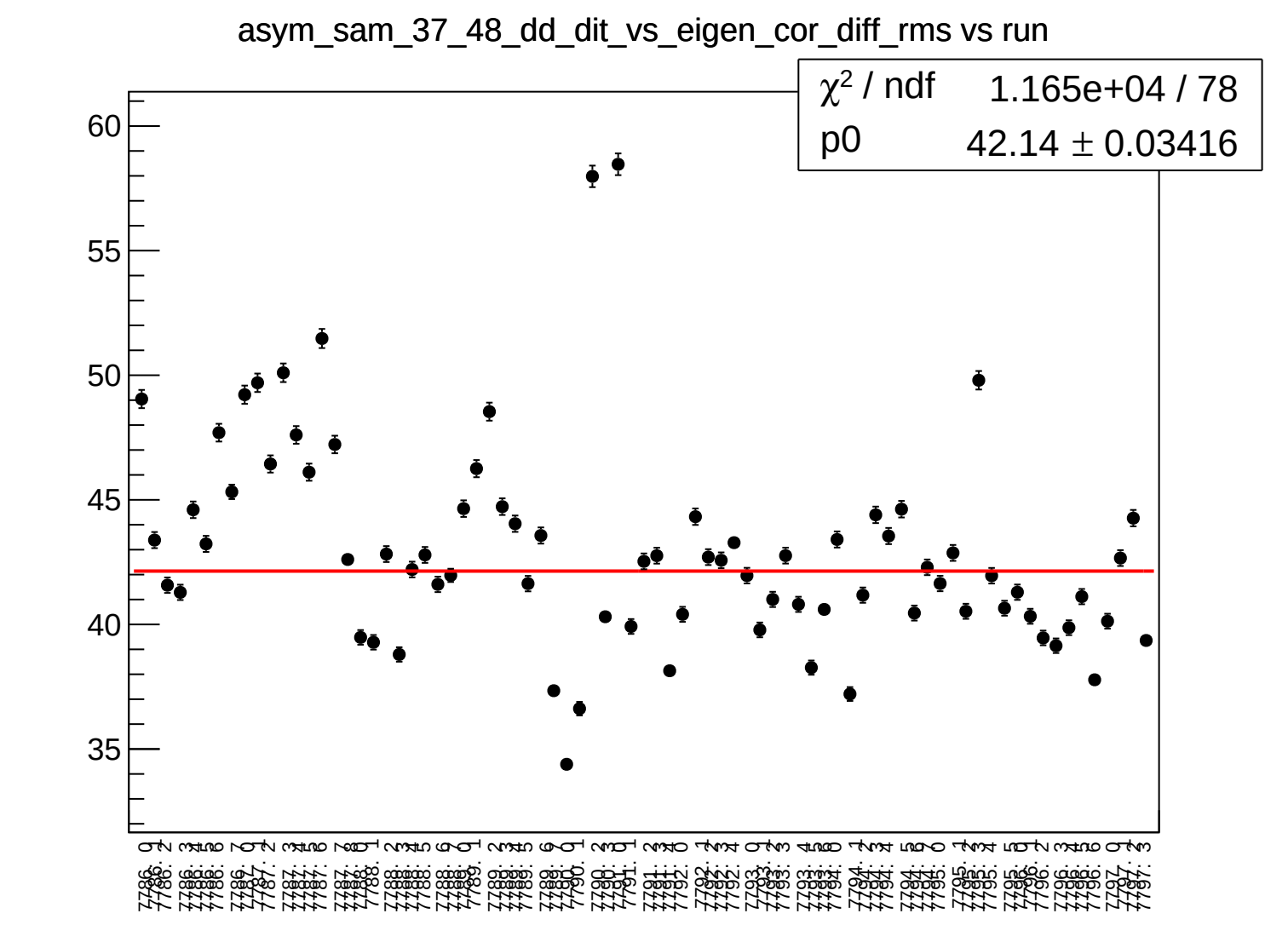

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.248e+05 / 78
p0 2.343e−11 ± 3.002e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

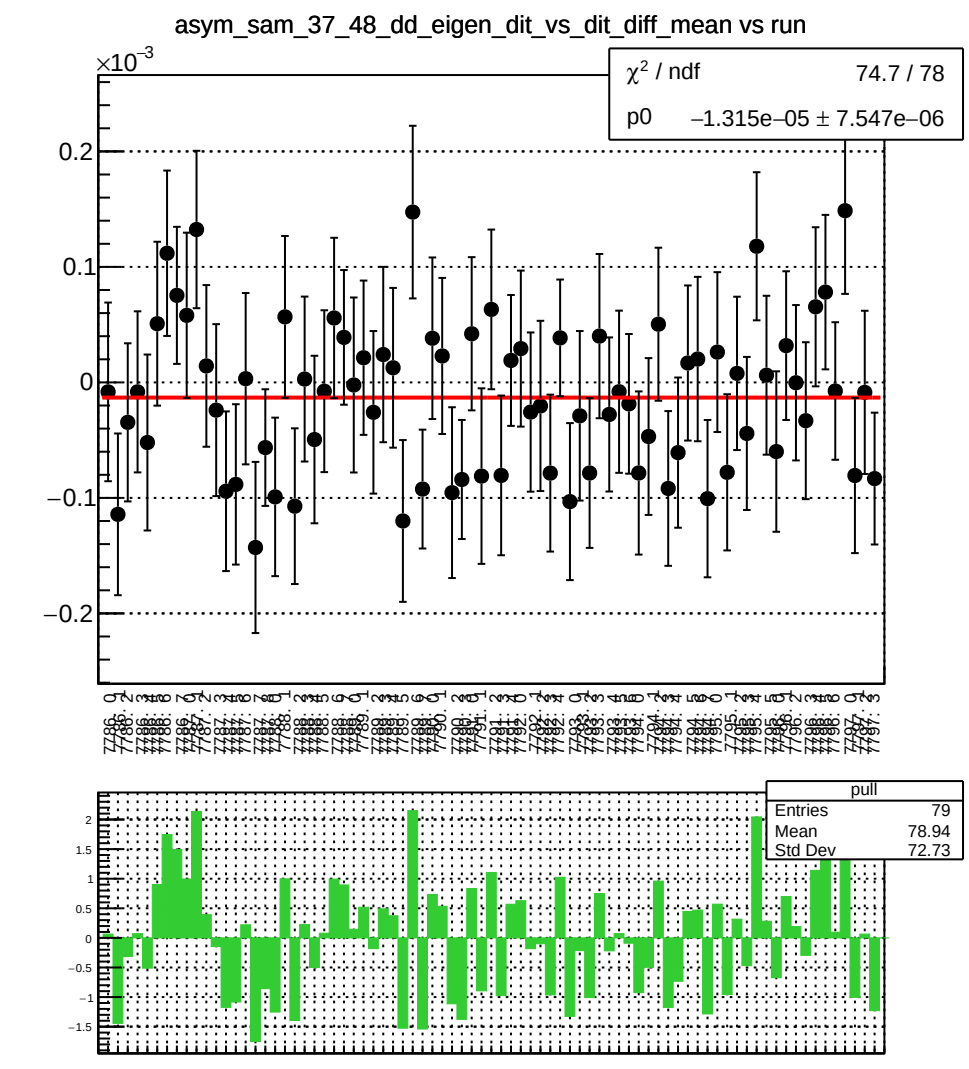

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.5 / 78
p0 0.02837 ± 0.0483
pull
Entries 79
Mean −83.57
Std Dev 0

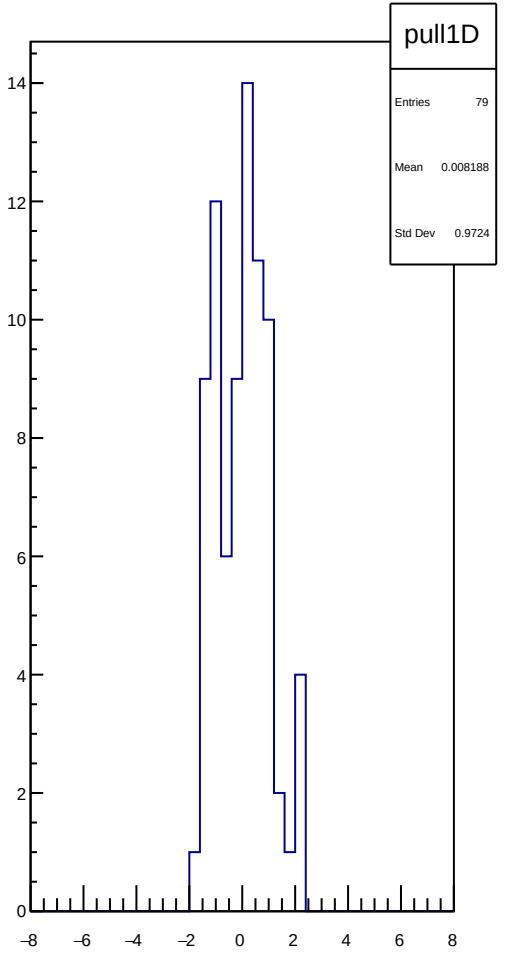

pull1D
Entries 79
Mean −0.02524
Std Dev 0.951

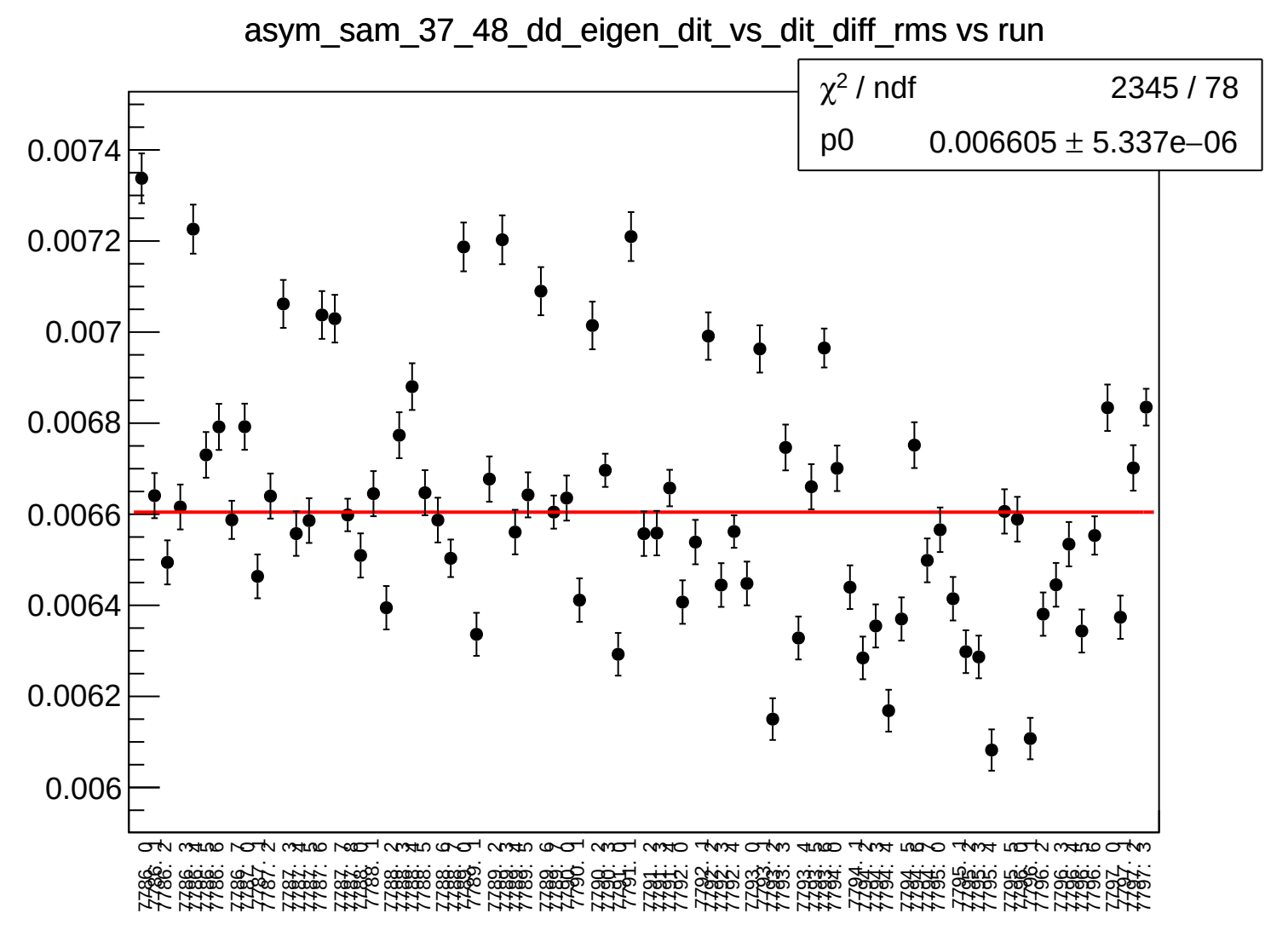

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+04 / 78
p0 42.14 ± 0.03416
60
55
50
45
40
35

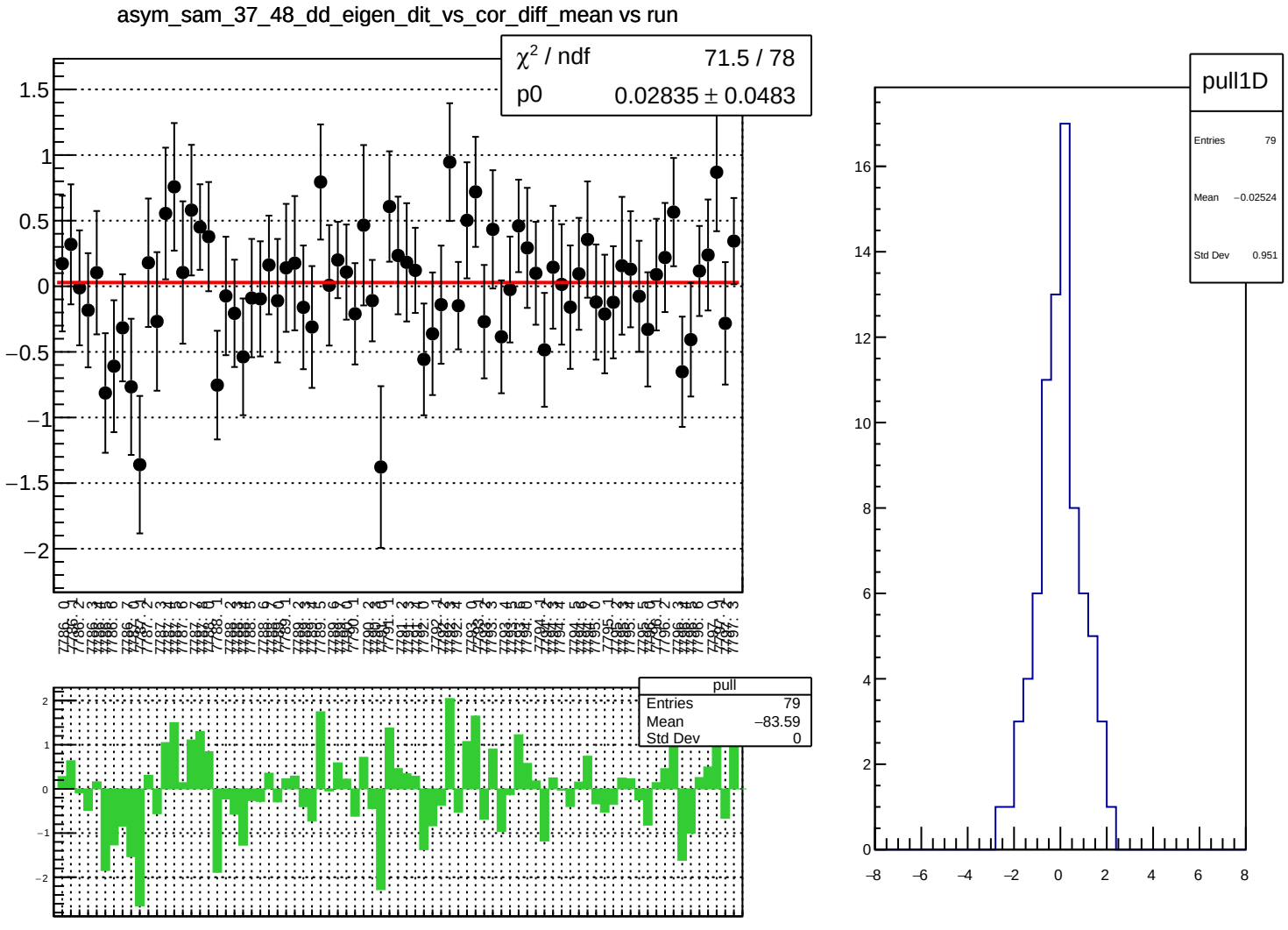

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.5 / 78
p0 0.02837 ± 0.0483
pull
Entries 79
Mean −83.57
Std Dev 0
pull1D
Entries 79
Mean −0.02524
Std Dev 0.951

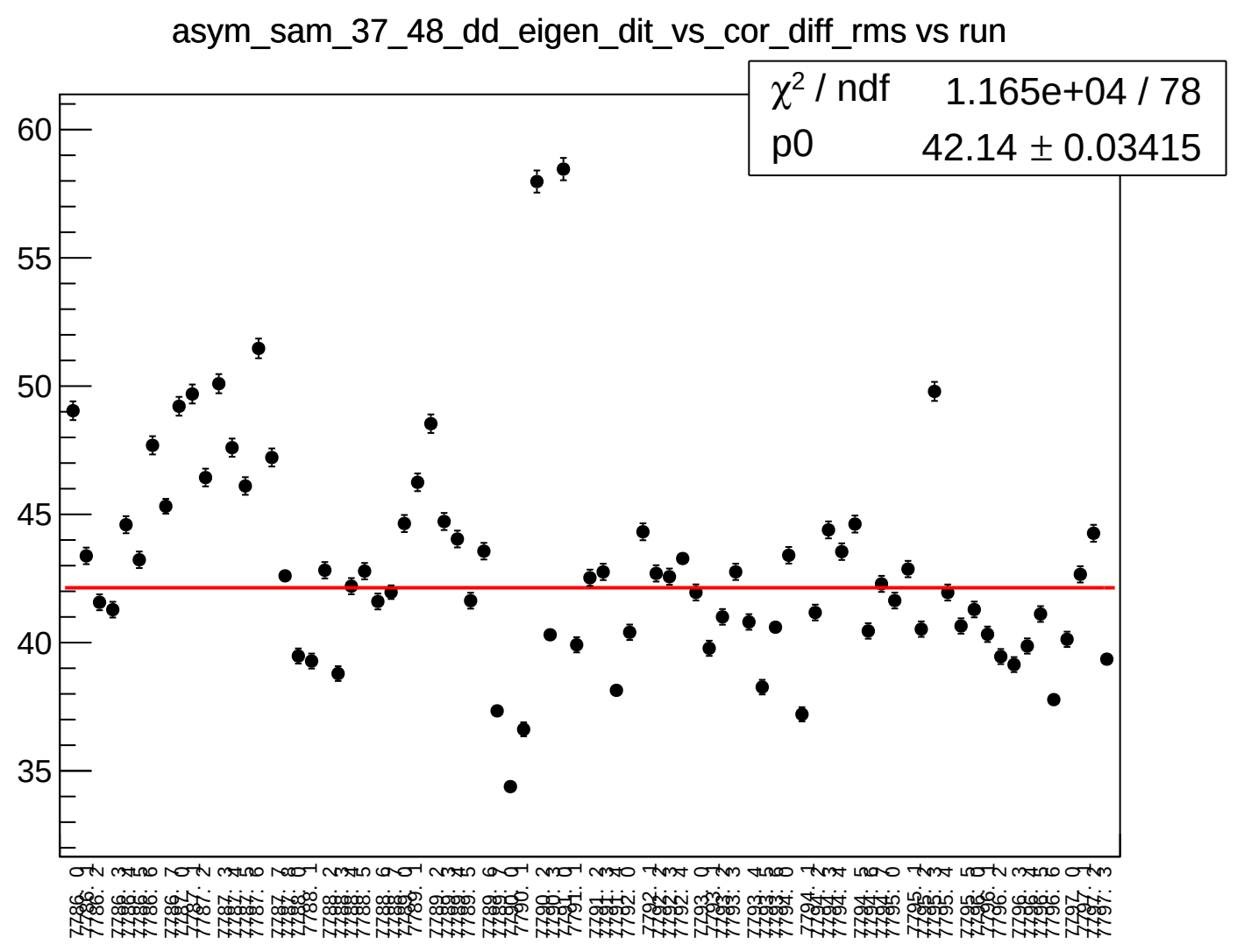

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+04 / 78
p0 42.14 ± 0.03416
60
55
50
45
40
35

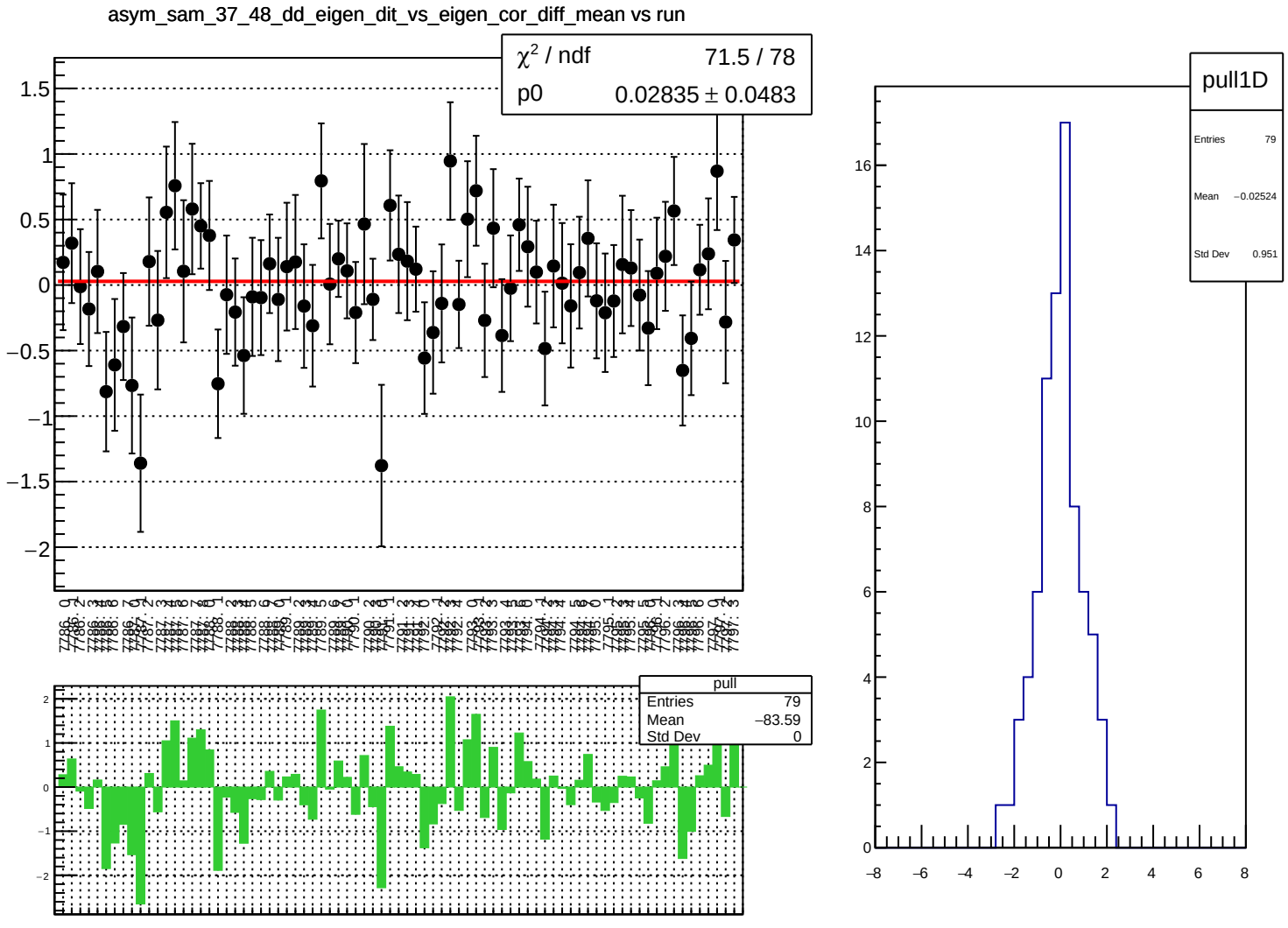

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.7 / 78
p0 −1.315e−05 ± 7.547e−06
pull
Entries 79
Mean 78.94
Std Dev 72.73

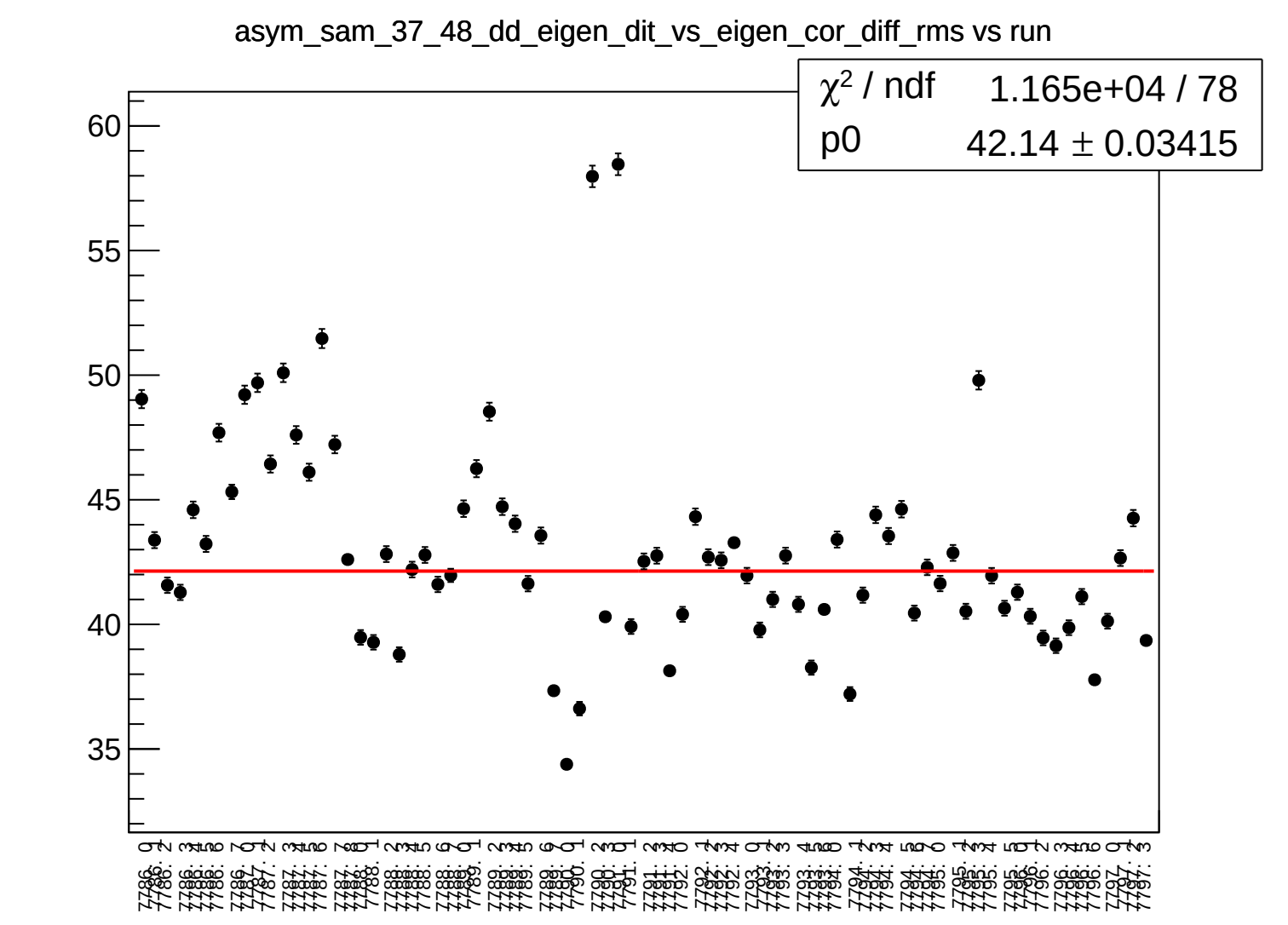

pull1D
Entries 79
Mean 0.008188
Std Dev 0.9724

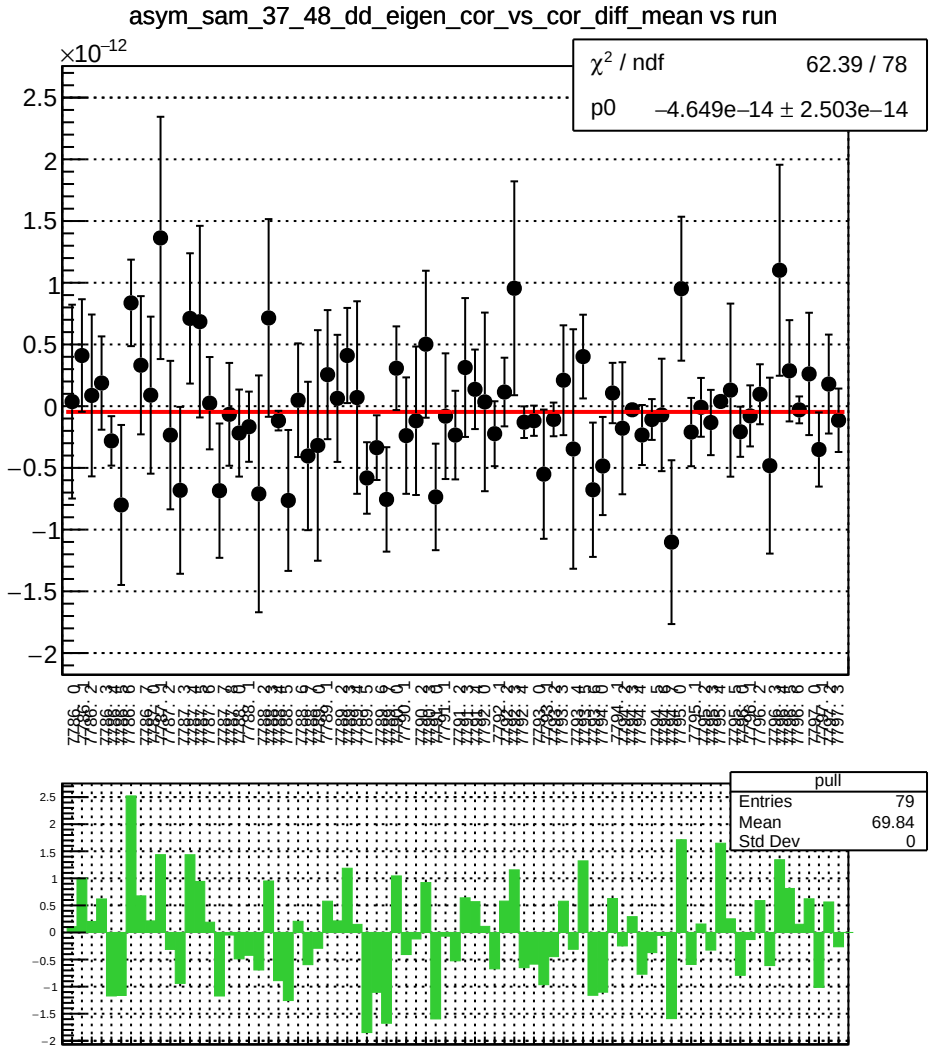

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2345 / 78
p0 0.006605 ± 5.337e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

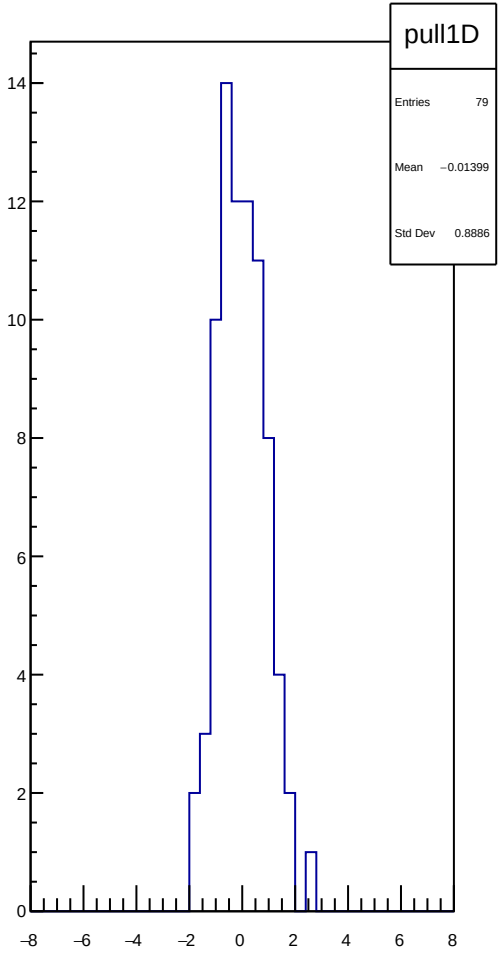

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.5 / 78
p0 0.02835 ± 0.0483
pull
Entries 79
Mean −83.59
Std Dev 0
pull1D
Entries 79
Mean −0.02524
Std Dev 0.951

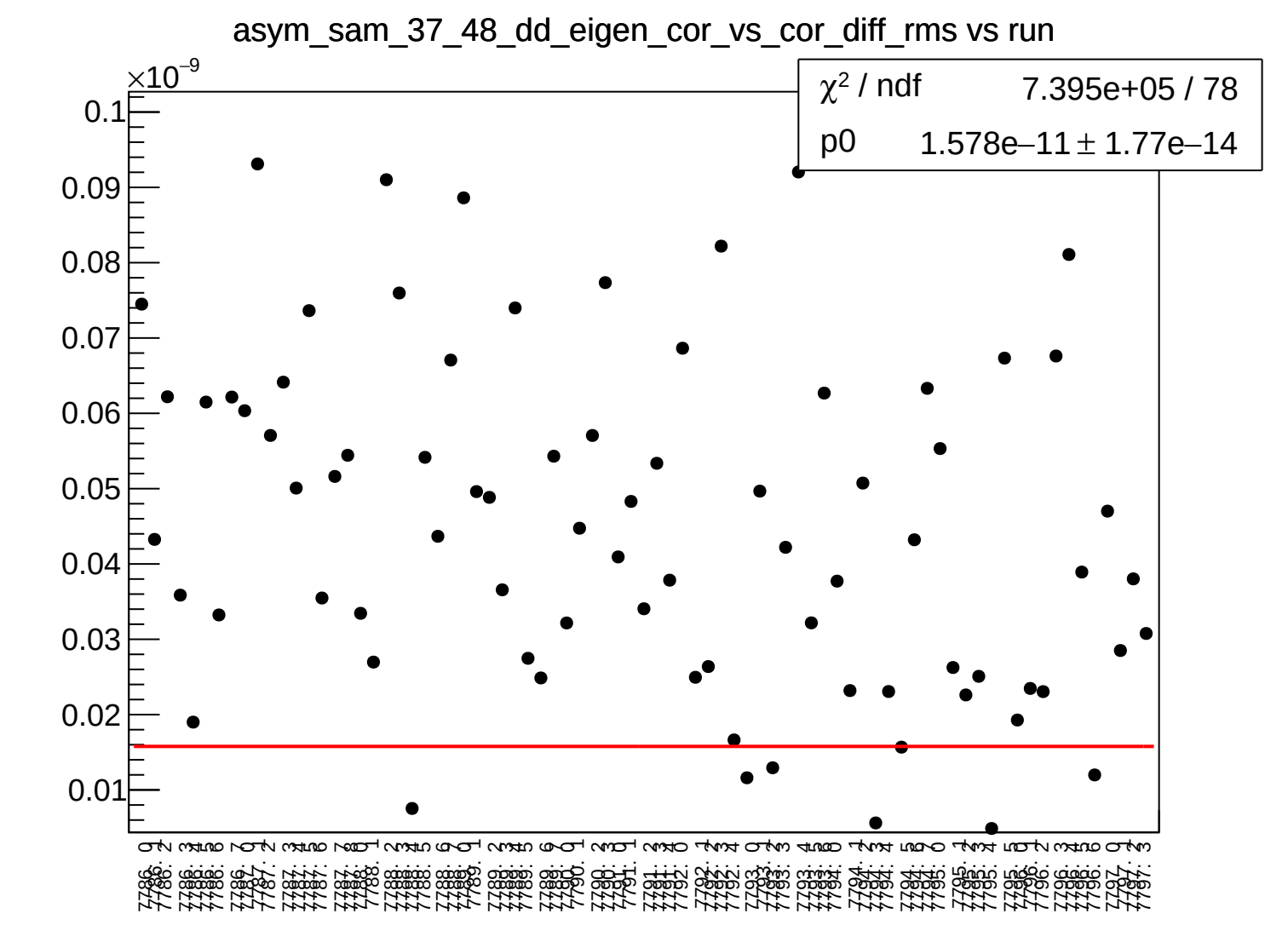

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+04 / 78
p0 42.14 ± 0.03415
60
55
50
45
40
35

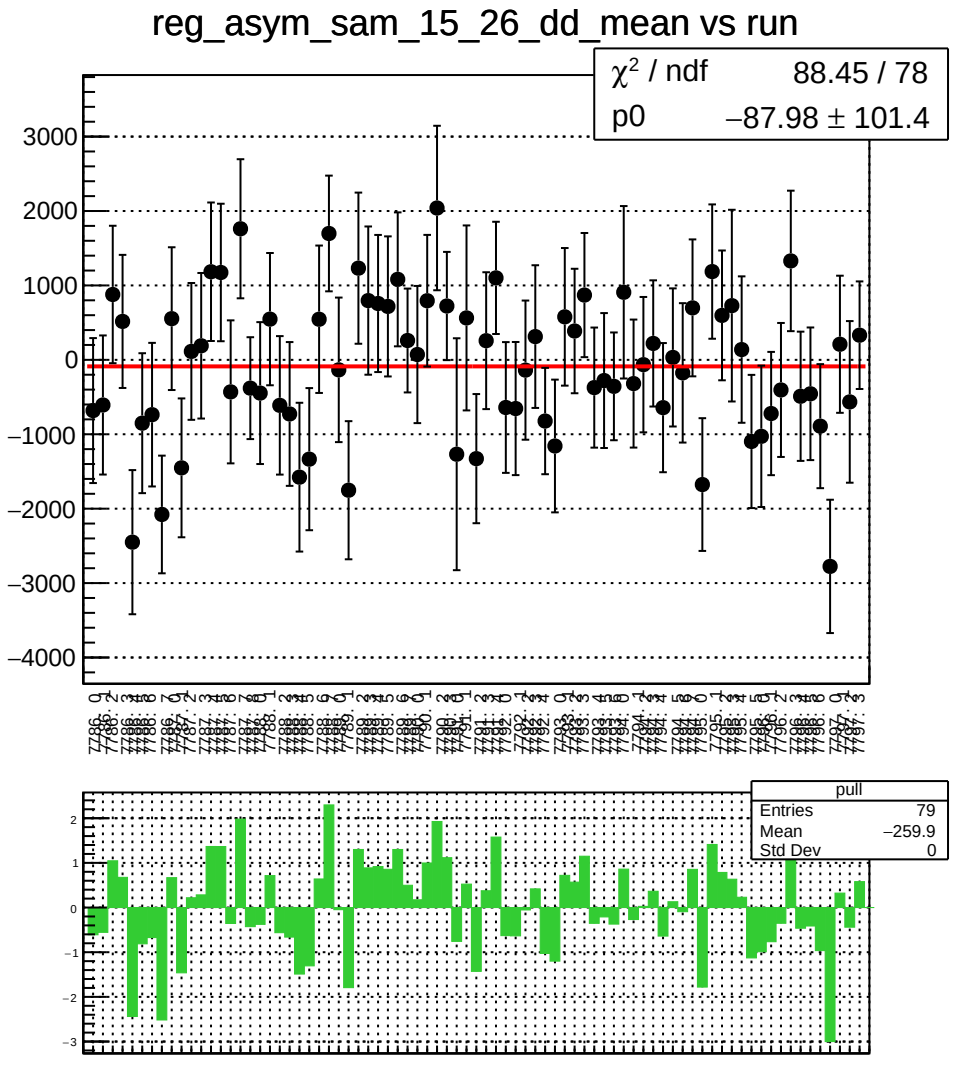

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.5 / 78
p0 0.02835 ± 0.0483
pull
Entries 79
Mean −83.59
Std Dev 0
pull1D
Entries 79
Mean −0.02524
Std Dev 0.951

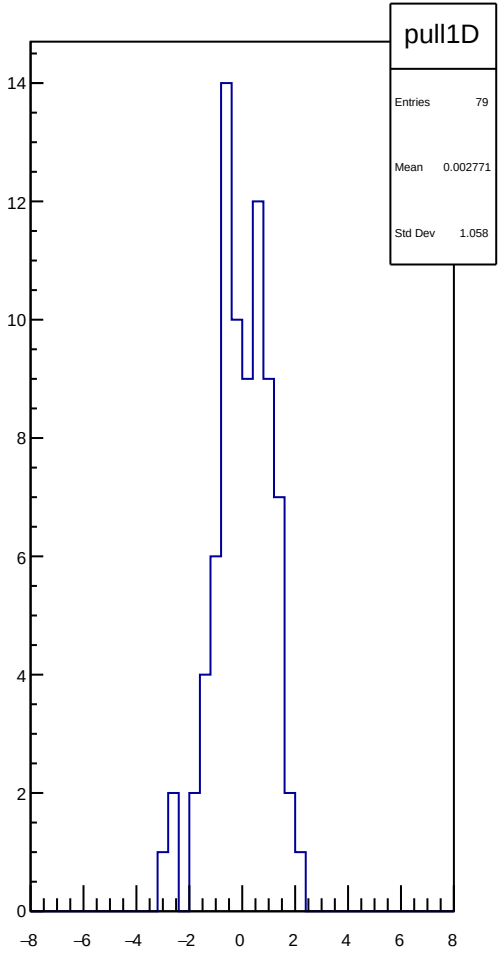

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+04 / 78
p0 42.14 ± 0.03415
60
55
50
45
40
35

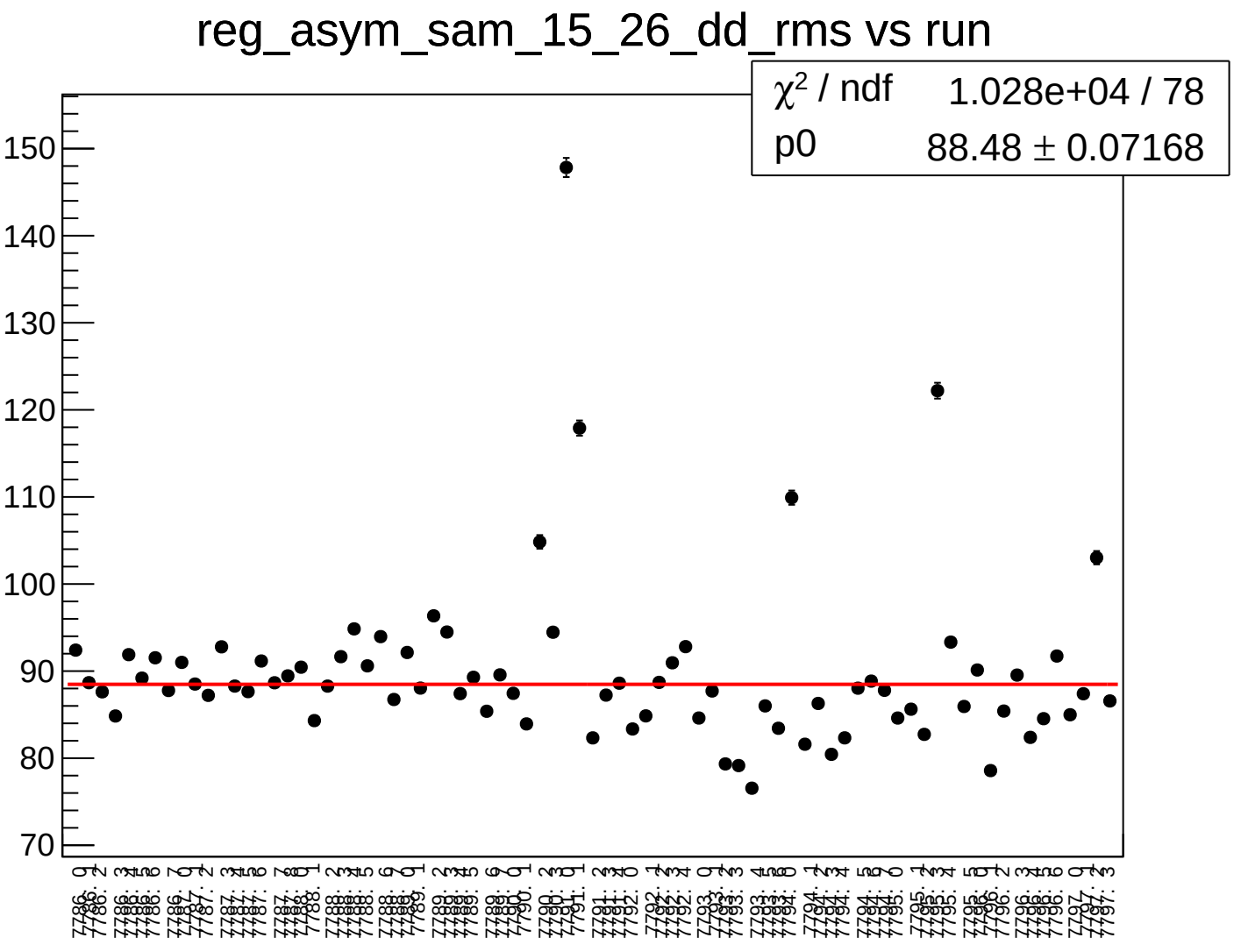

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.39 / 78
p0 −4.649e−14 ± 2.503e−14
pull
Entries 79
Mean 69.84
Std Dev 0

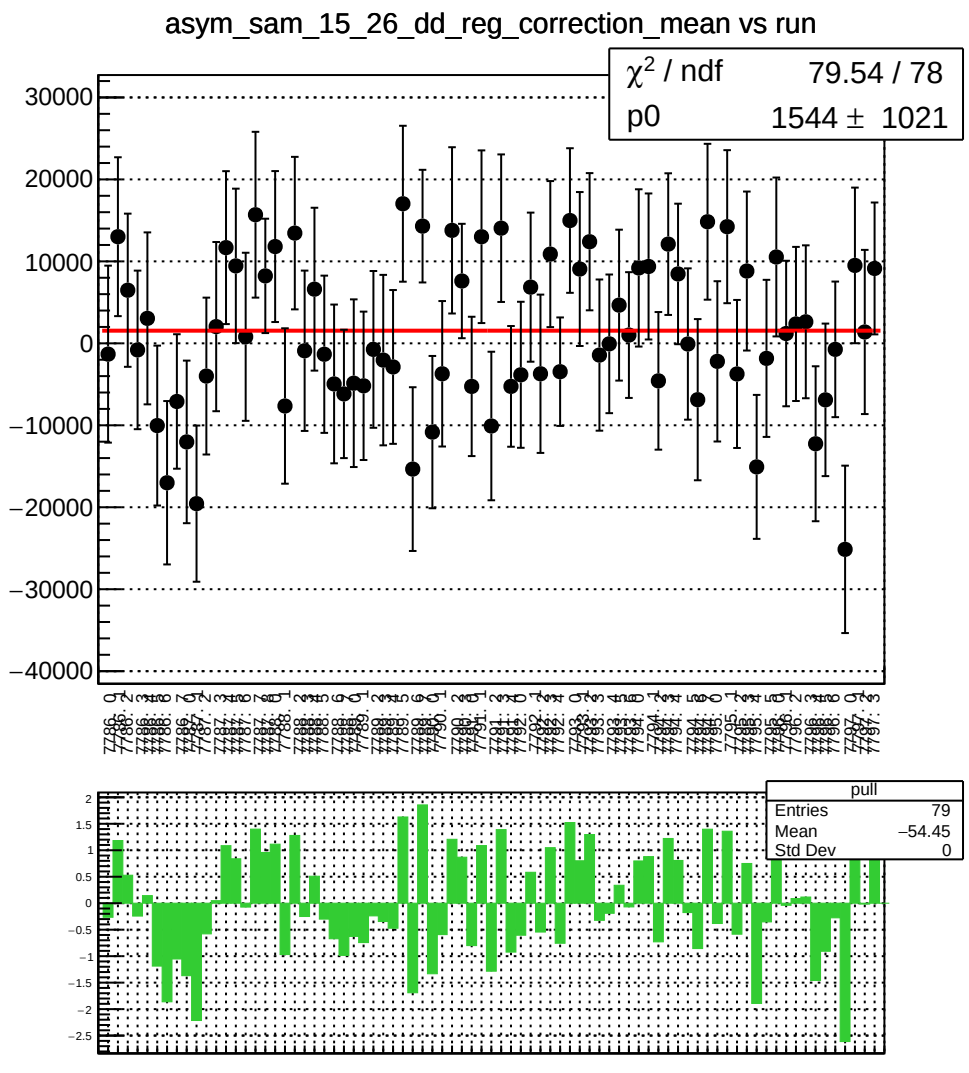

pull1D
Entries 79
Mean −0.01399
Std Dev 0.8886

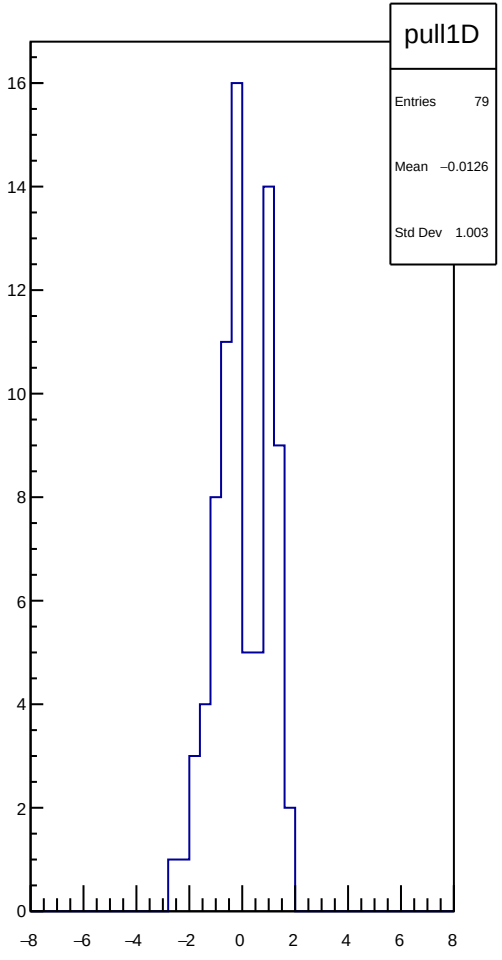

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.395e+05 / 78
p0 1.578e−11 ± 1.77e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

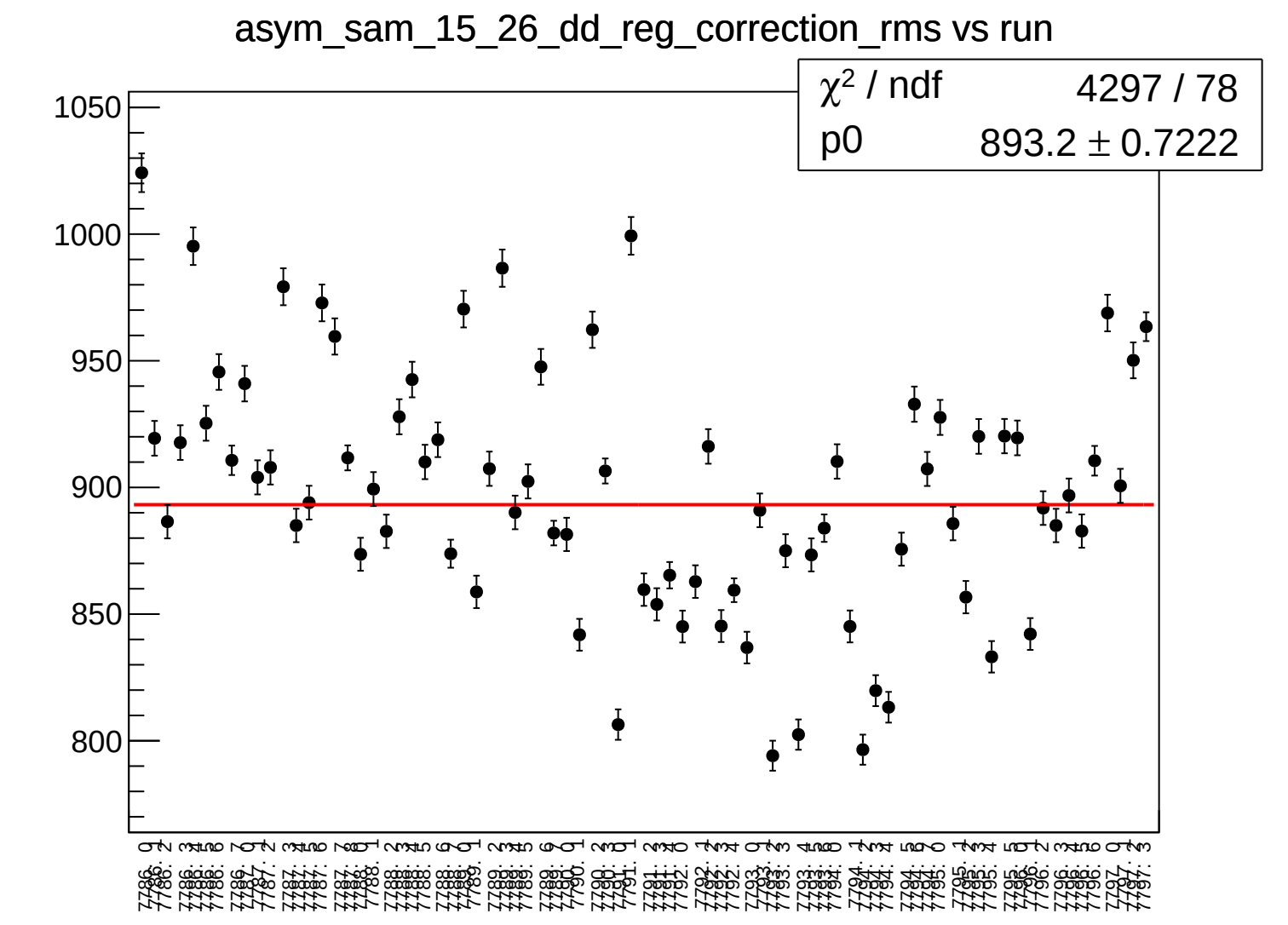

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 88.45 / 78
p0 −87.98 ± 101.4
pull
Entries 79
Mean −259.9
Std Dev 0

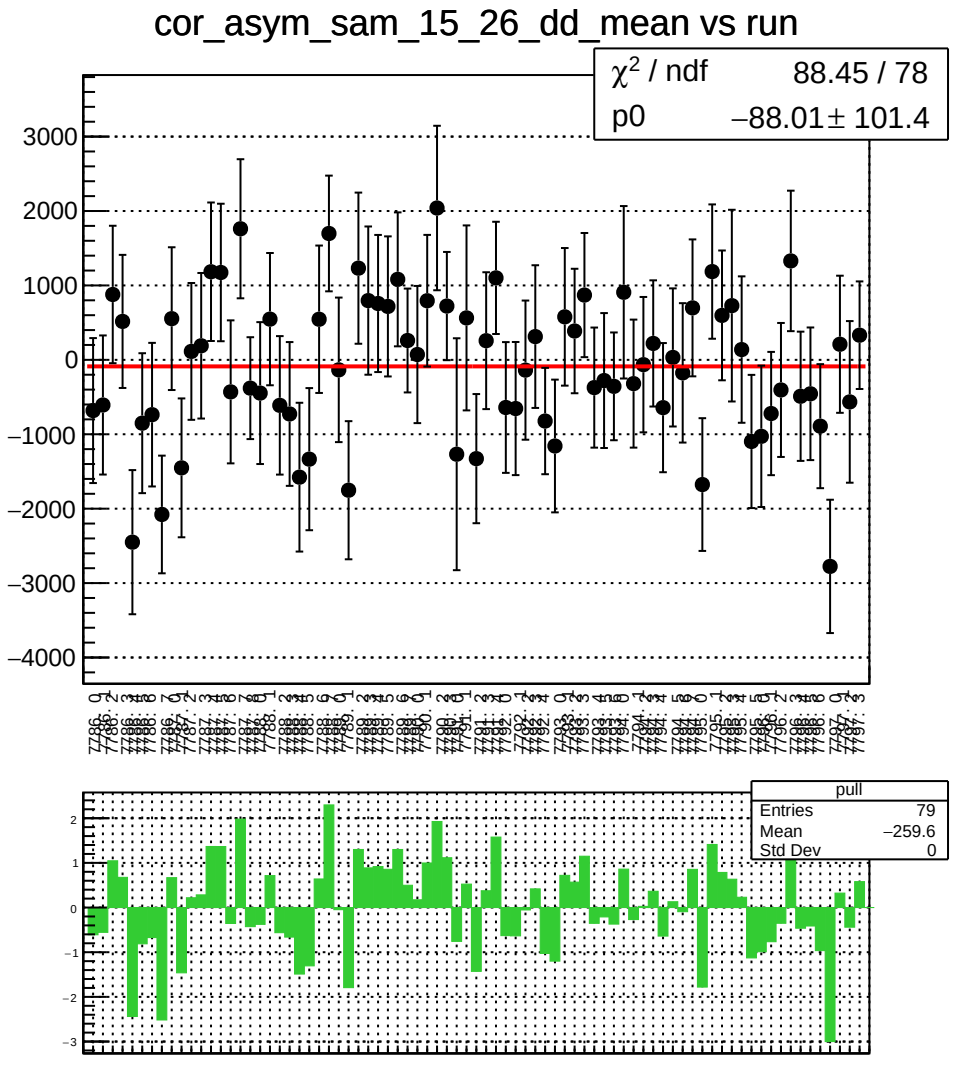

pull1D
Entries 79
Mean 0.002771
Std Dev 1.058

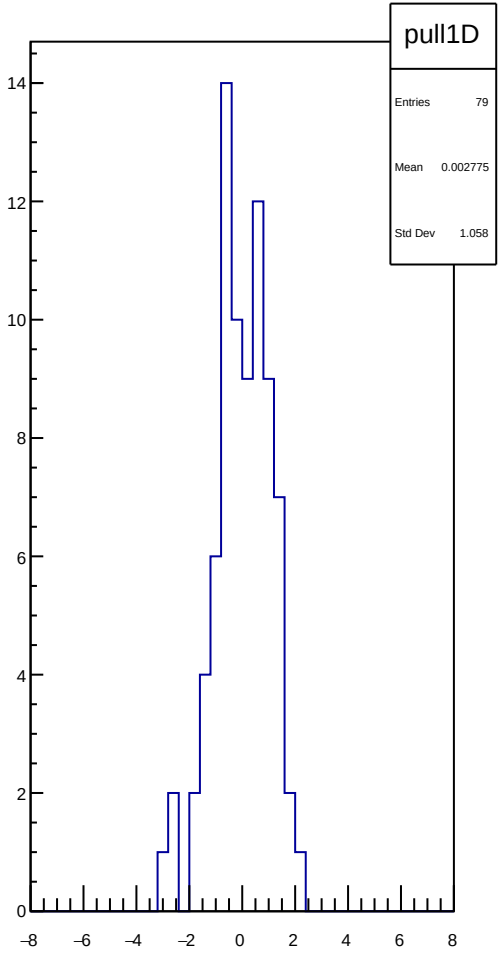

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.028e+04 / 78
p0 88.48 ± 0.07168
150
140
130
120
110
100
90
80
70

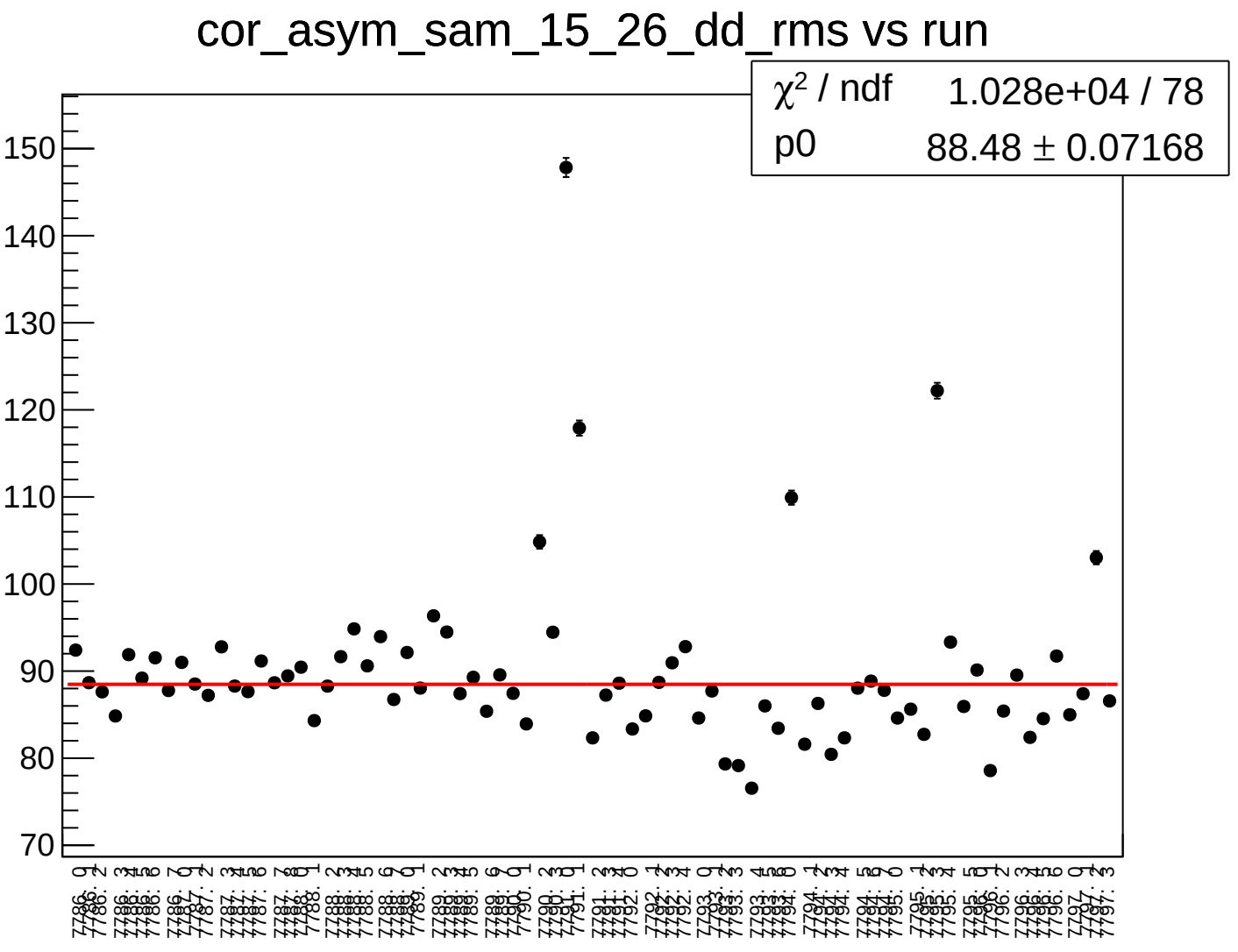

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 79.54 / 78
p0 1544 ± 1021
pull
Entries 79
Mean −54.45
Std Dev 0

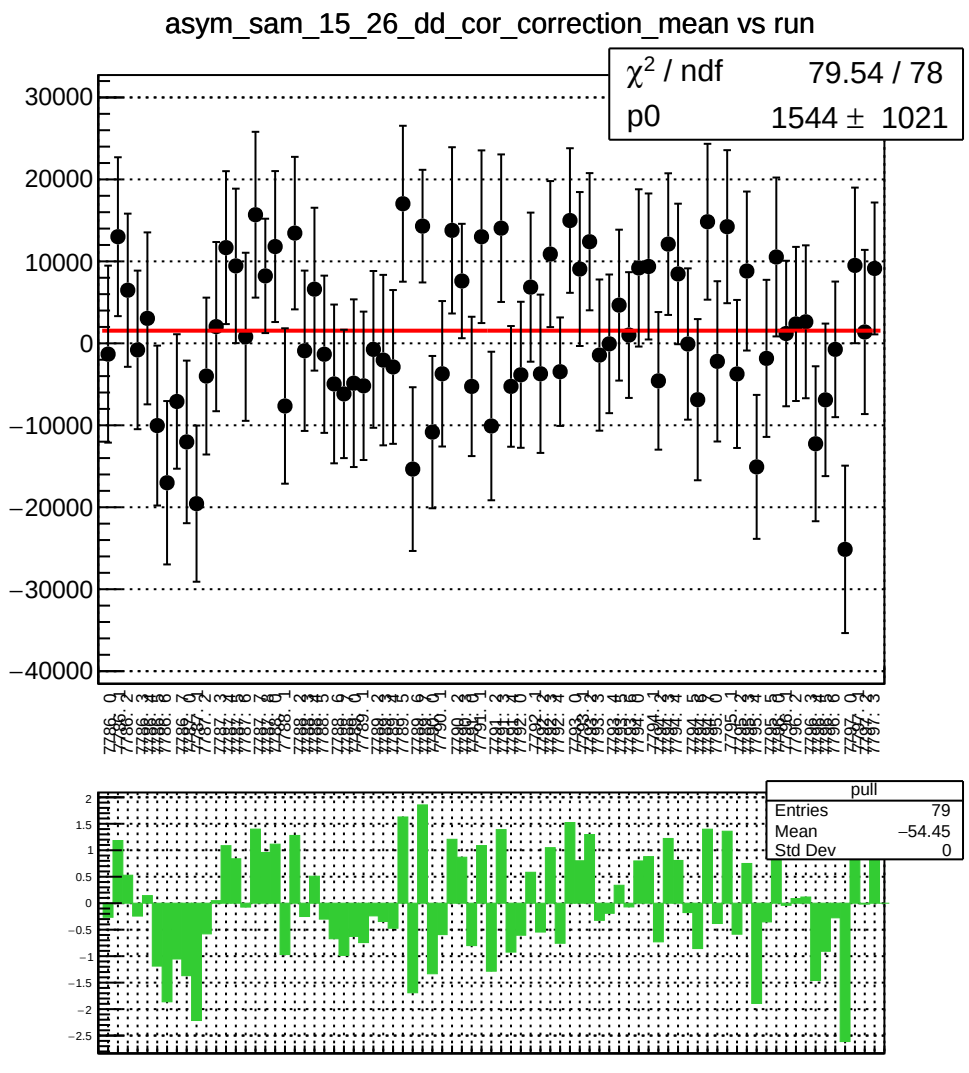

pull1D
Entries 79
Mean −0.0126
Std Dev 1.003

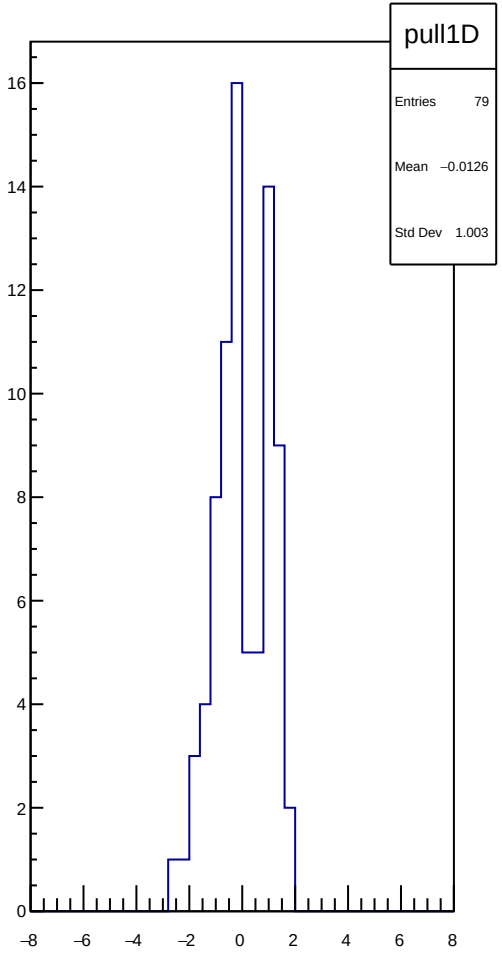

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 4297 / 78
p0 893.2 ± 0.7222
1050
1000
950
900
850
800

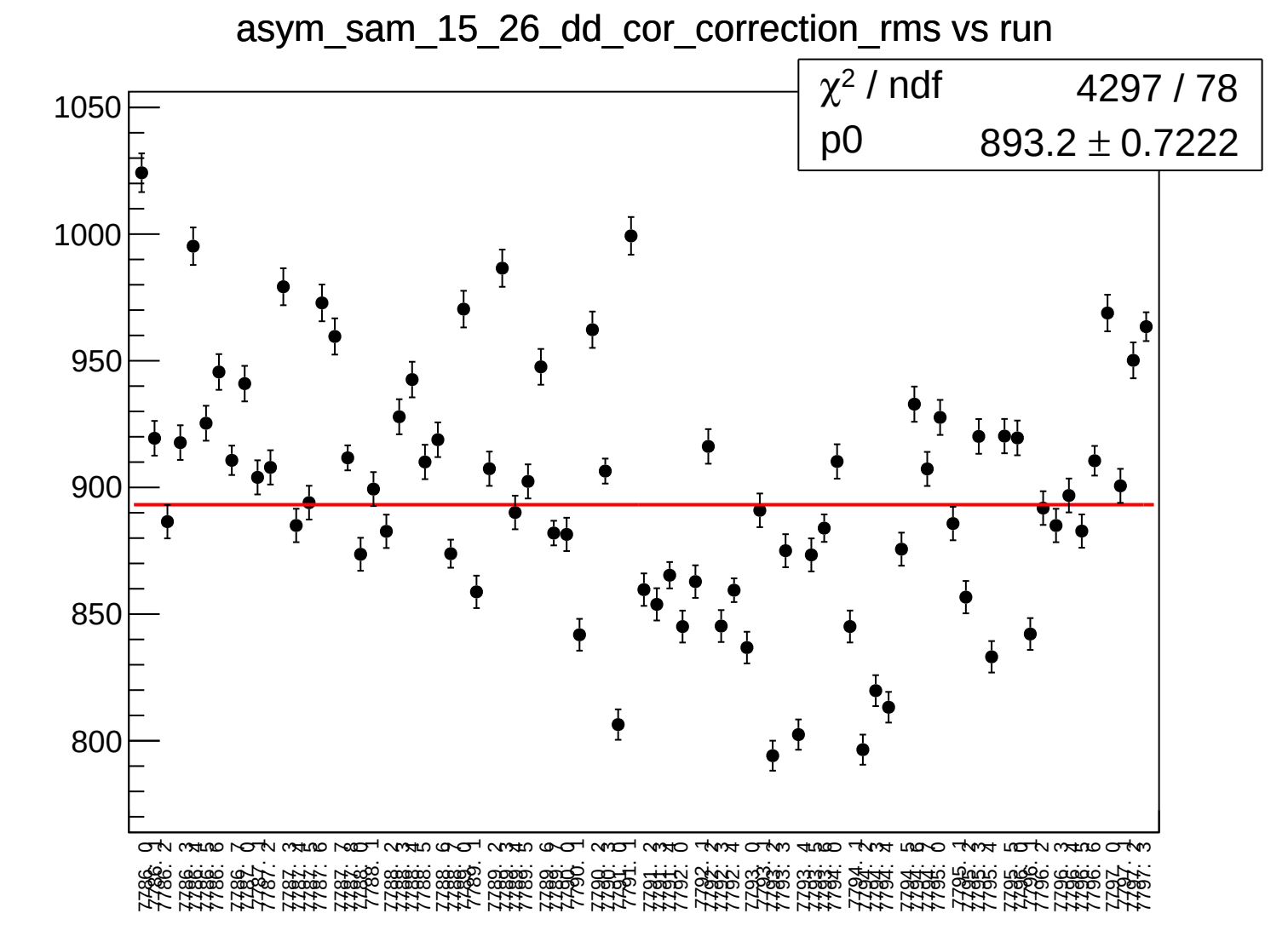

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 88.45 / 78
p0 −88.01 ± 101.4
pull
Entries 79
Mean −259.6
Std Dev 0

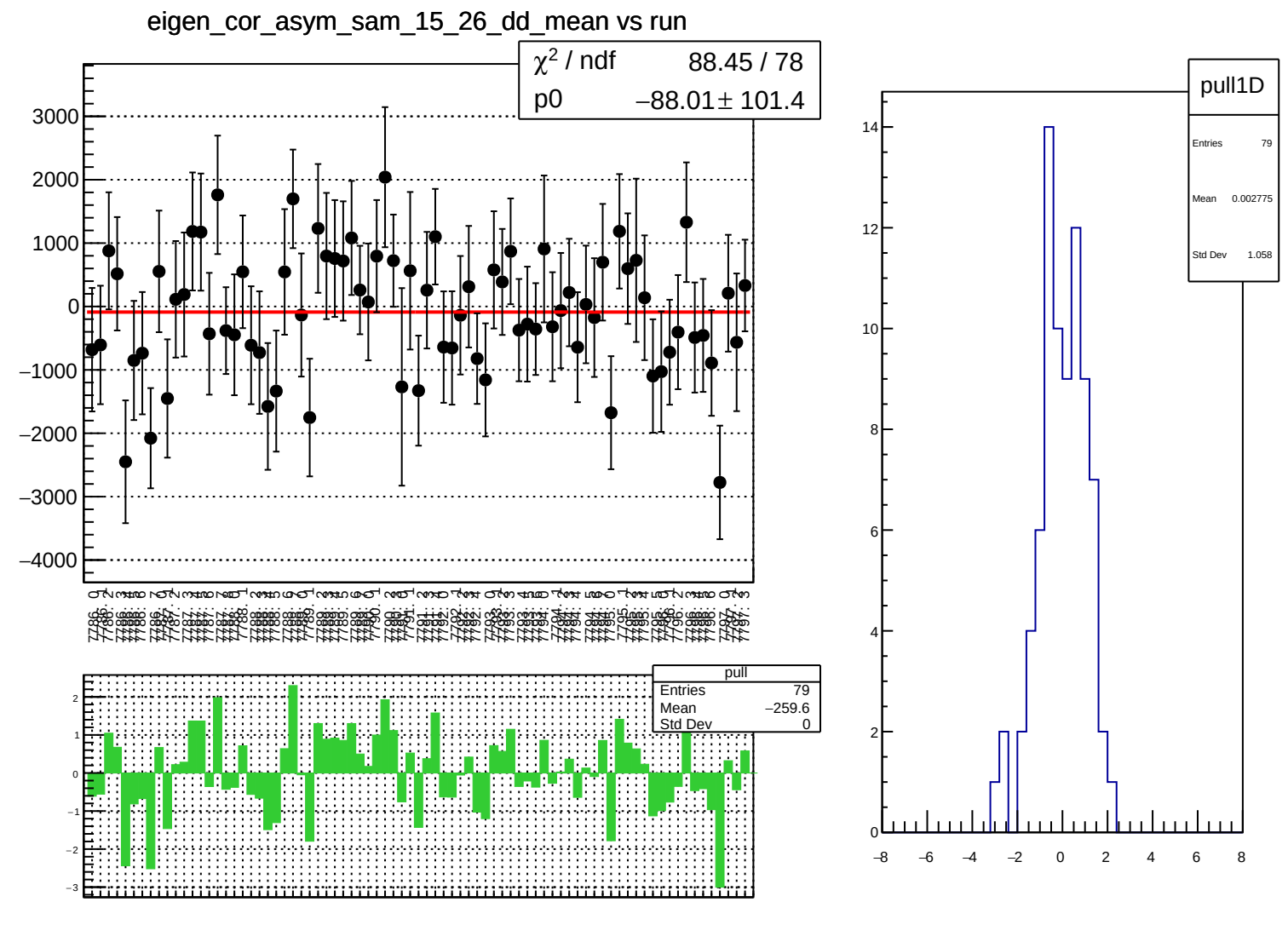

pull1D
Entries 79
Mean 0.002775
Std Dev 1.058

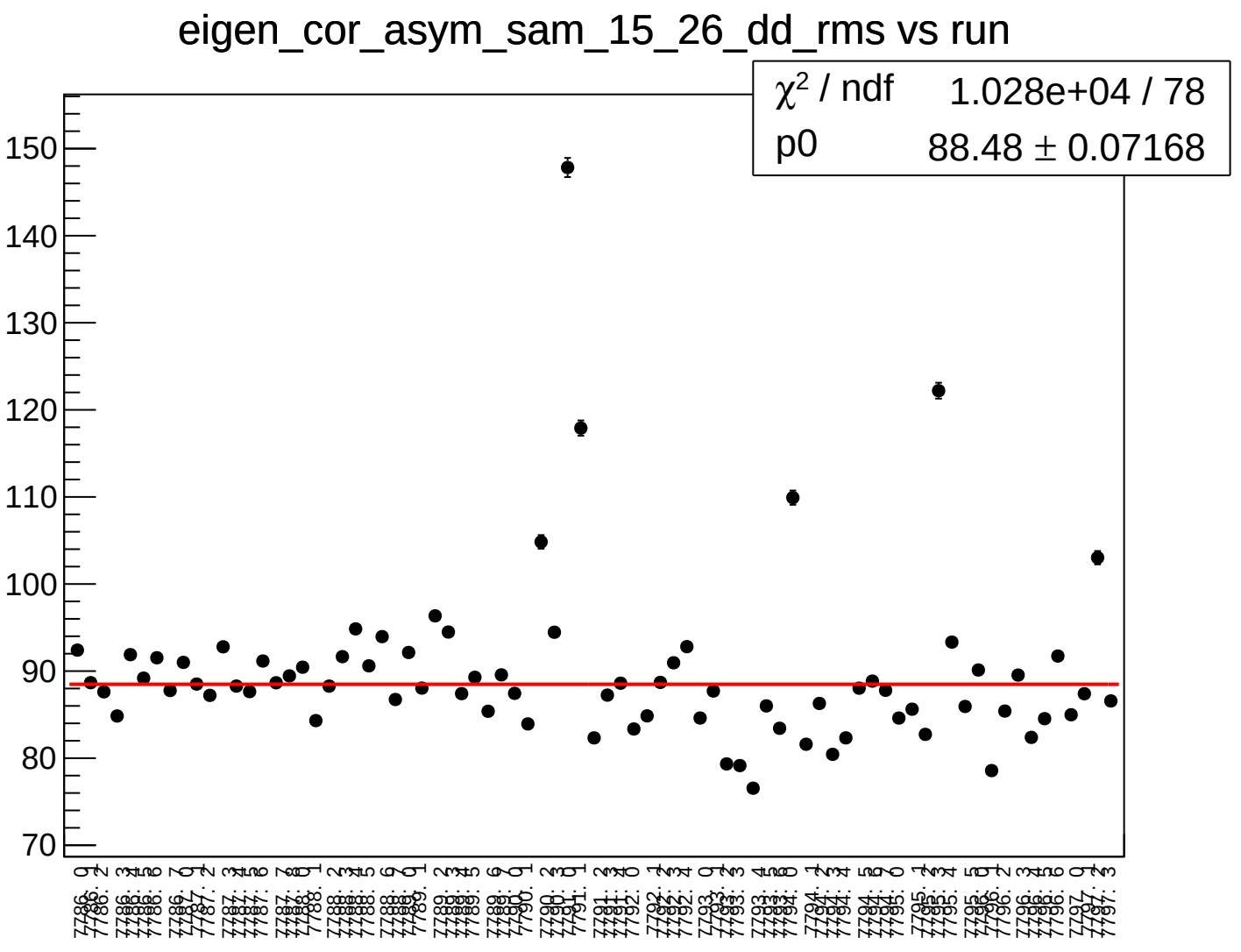

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.028e+04 / 78
p0 88.48 ± 0.07168
150
140
130
120
110
100
90
80
70

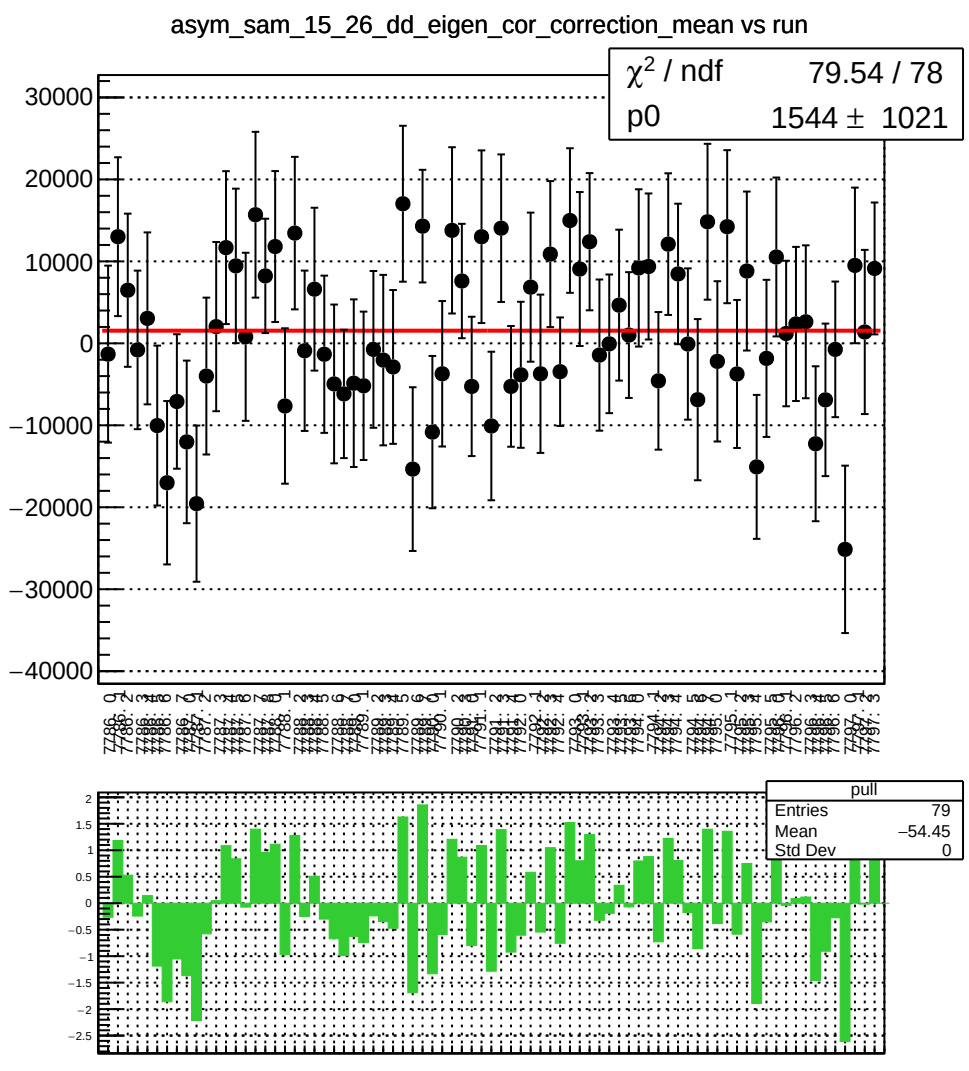

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 79.54 / 78
p0 1544 ± 1021
pull
Entries 79
Mean −54.45
Std Dev 0

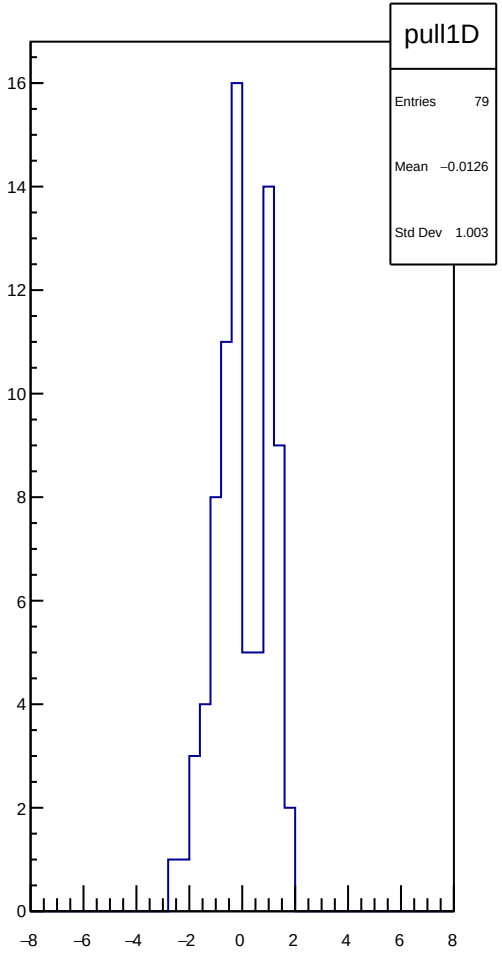

pull1D
Entries 79
Mean −0.0126
Std Dev 1.003

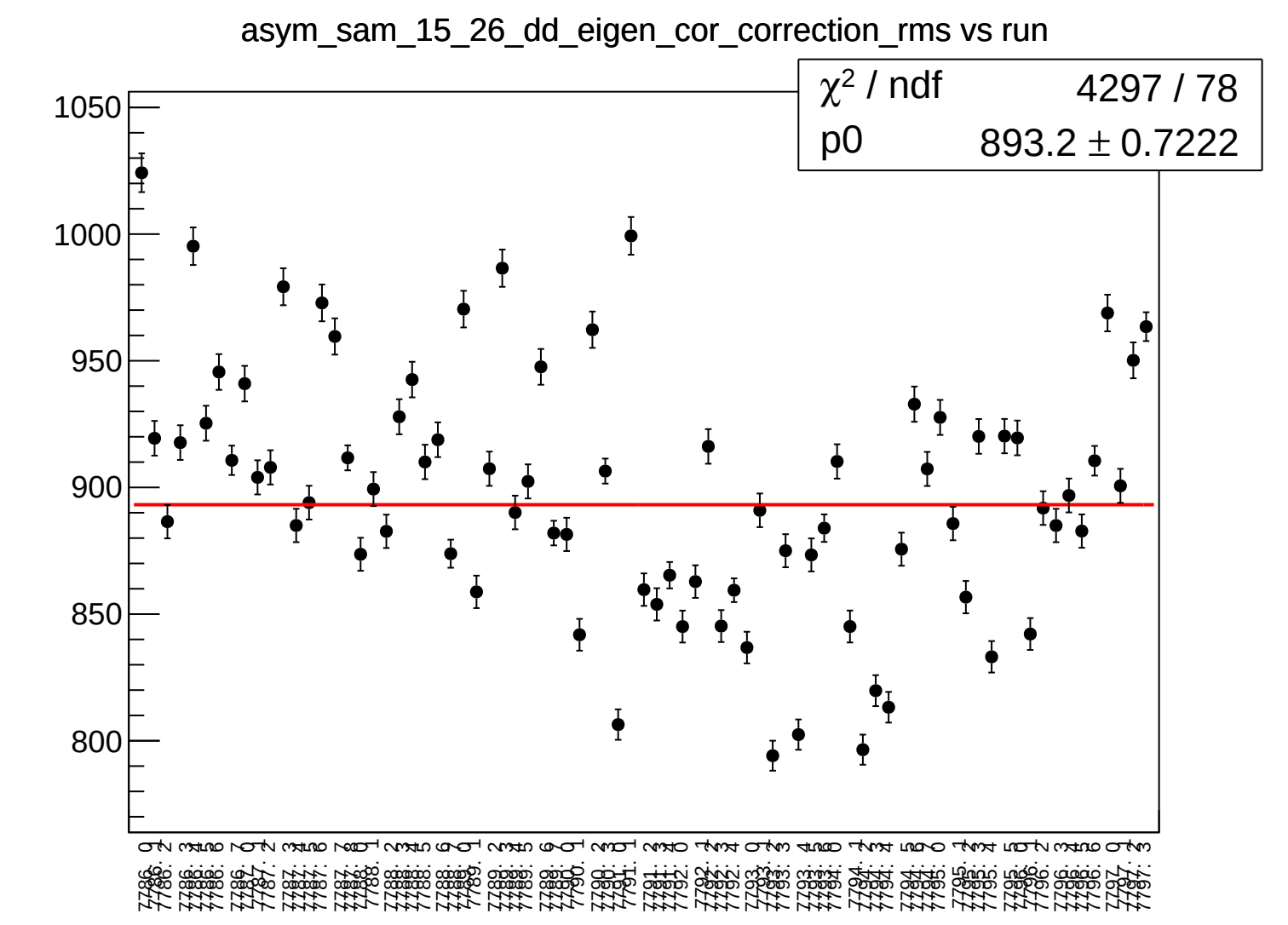

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 4297 / 78
p0 893.2 ± 0.7222
1050
1000
950
900
850
800

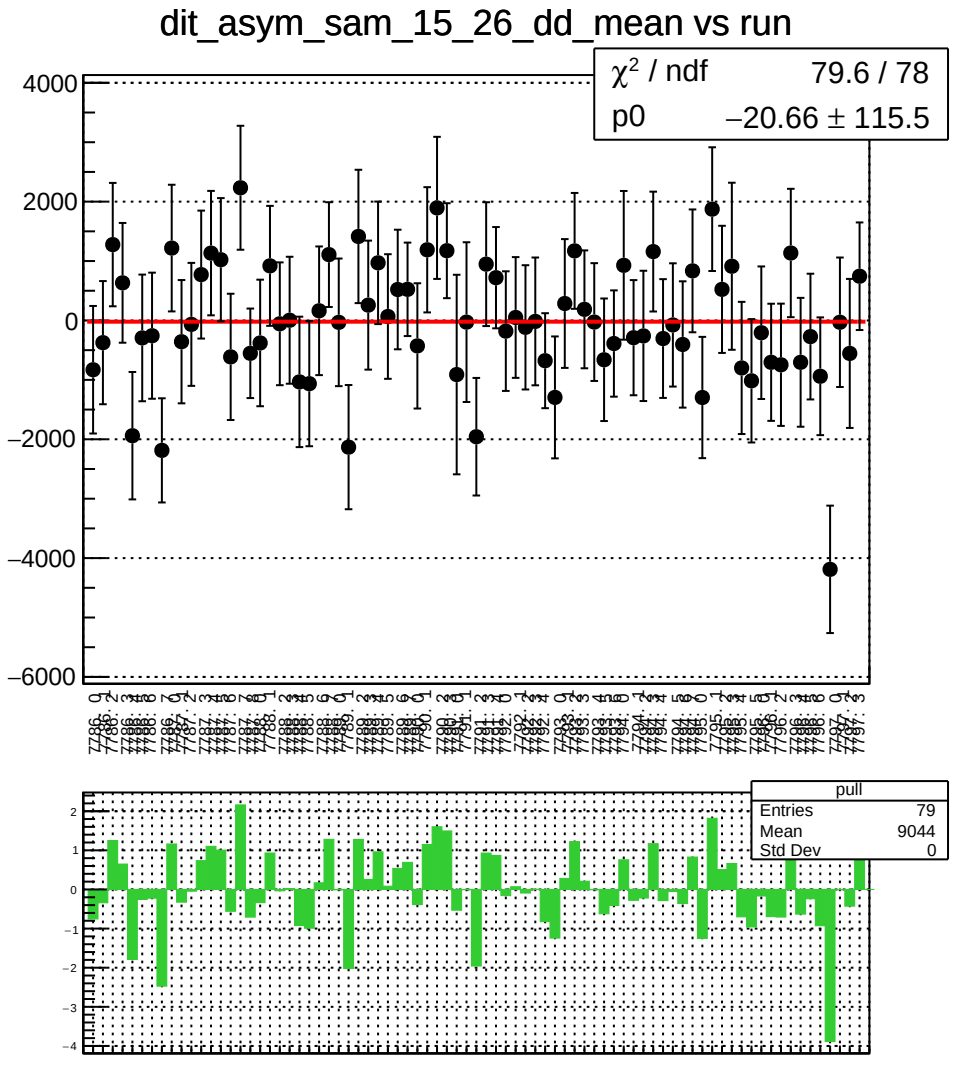

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 88.45 / 78
p0 −88.01 ± 101.4
pull
Entries 79
Mean −259.6
Std Dev 0
pull1D
Entries 79
Mean 0.002775
Std Dev 1.058

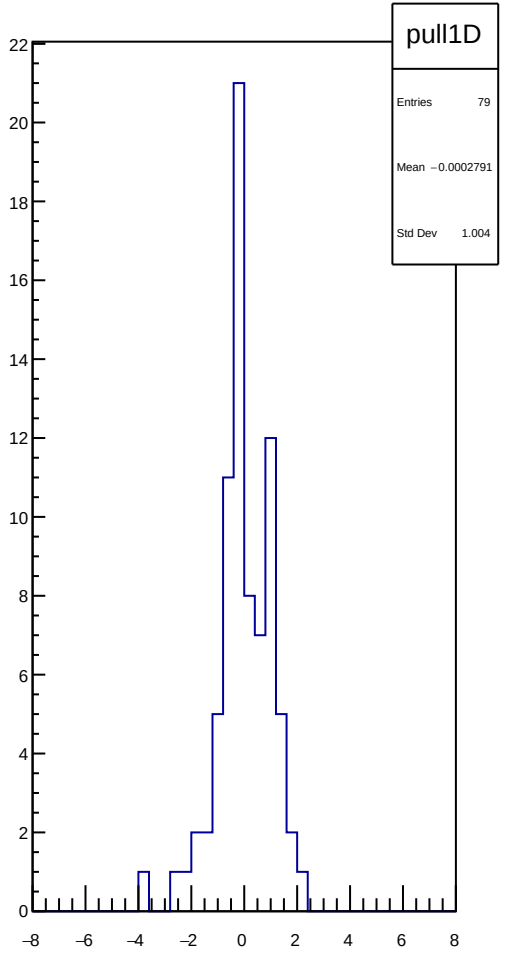

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.028e+04 / 78
p0 88.48 ± 0.07168
150
140
130
120
110
100
90
80
70

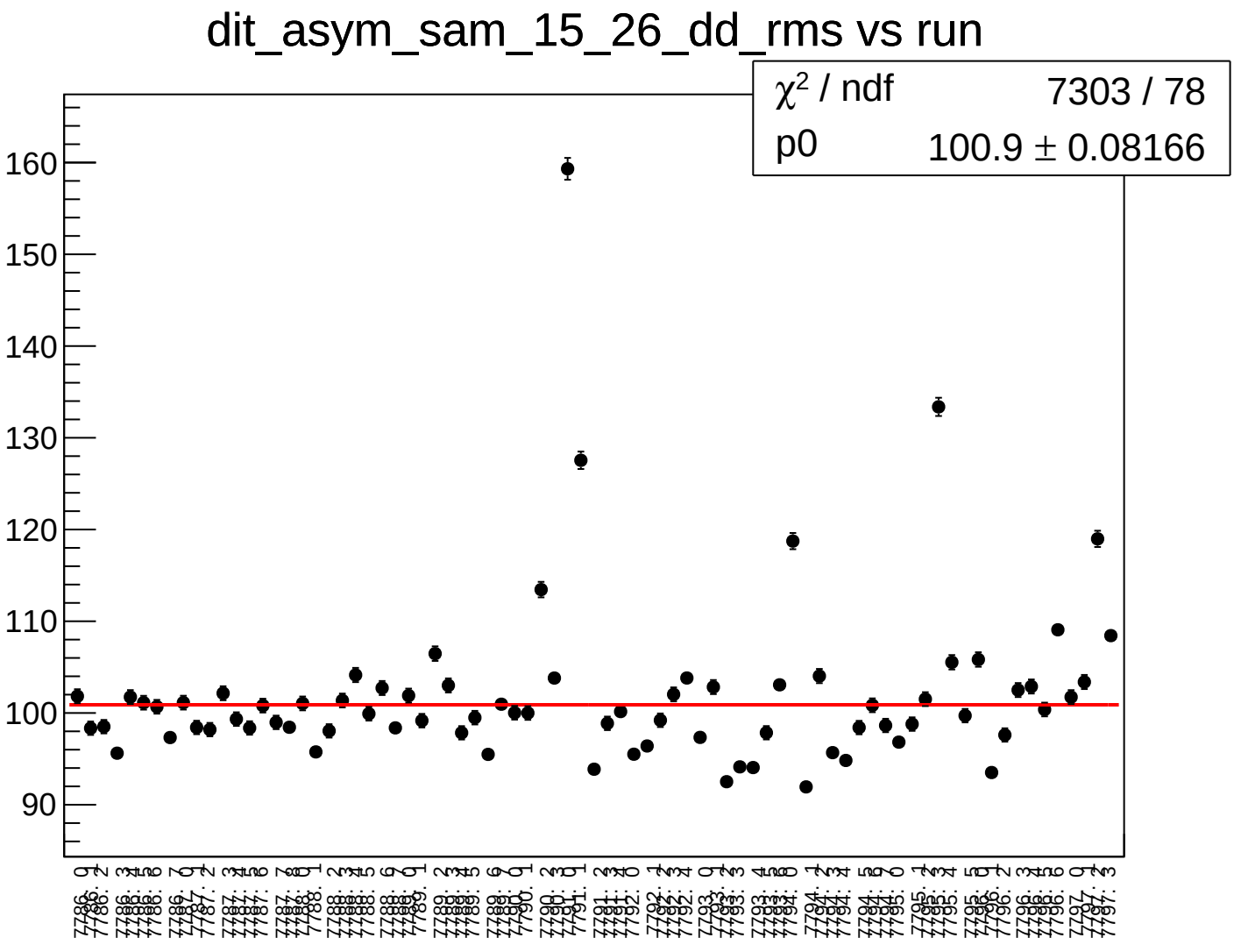

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.54 / 78
p0 1544 ± 1021
pull
Entries 79
Mean −54.45
Std Dev 0

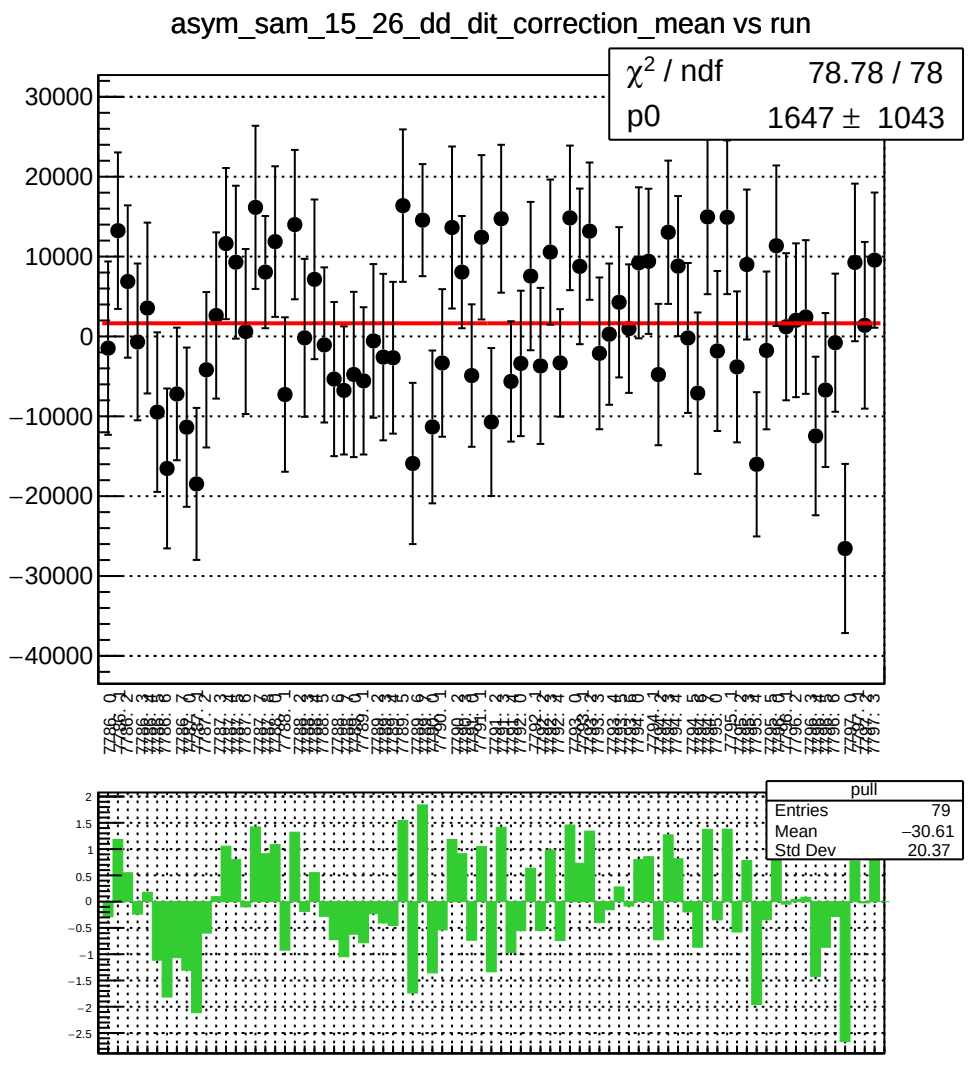

pull1D
Entries 79
Mean −0.0126
Std Dev 1.003

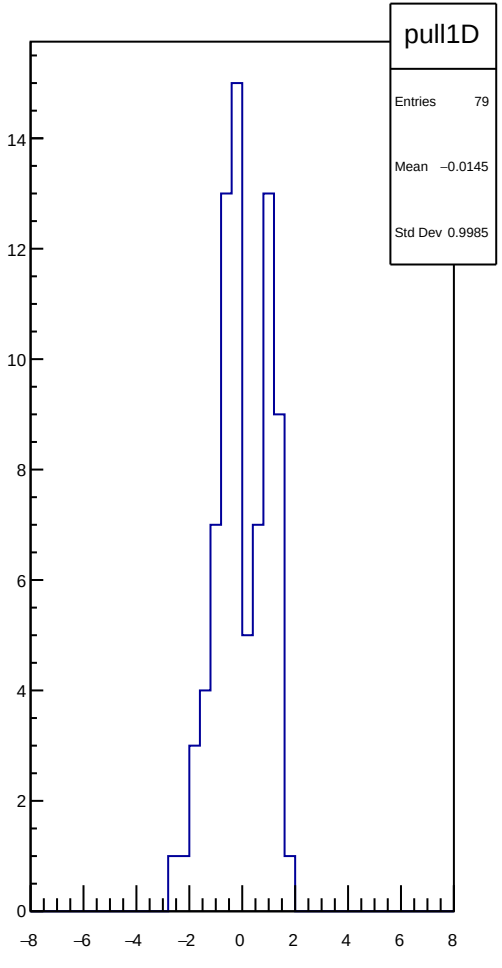

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4297 / 78
p0 893.2 ± 0.7222
1050
1000
950
900
850
800

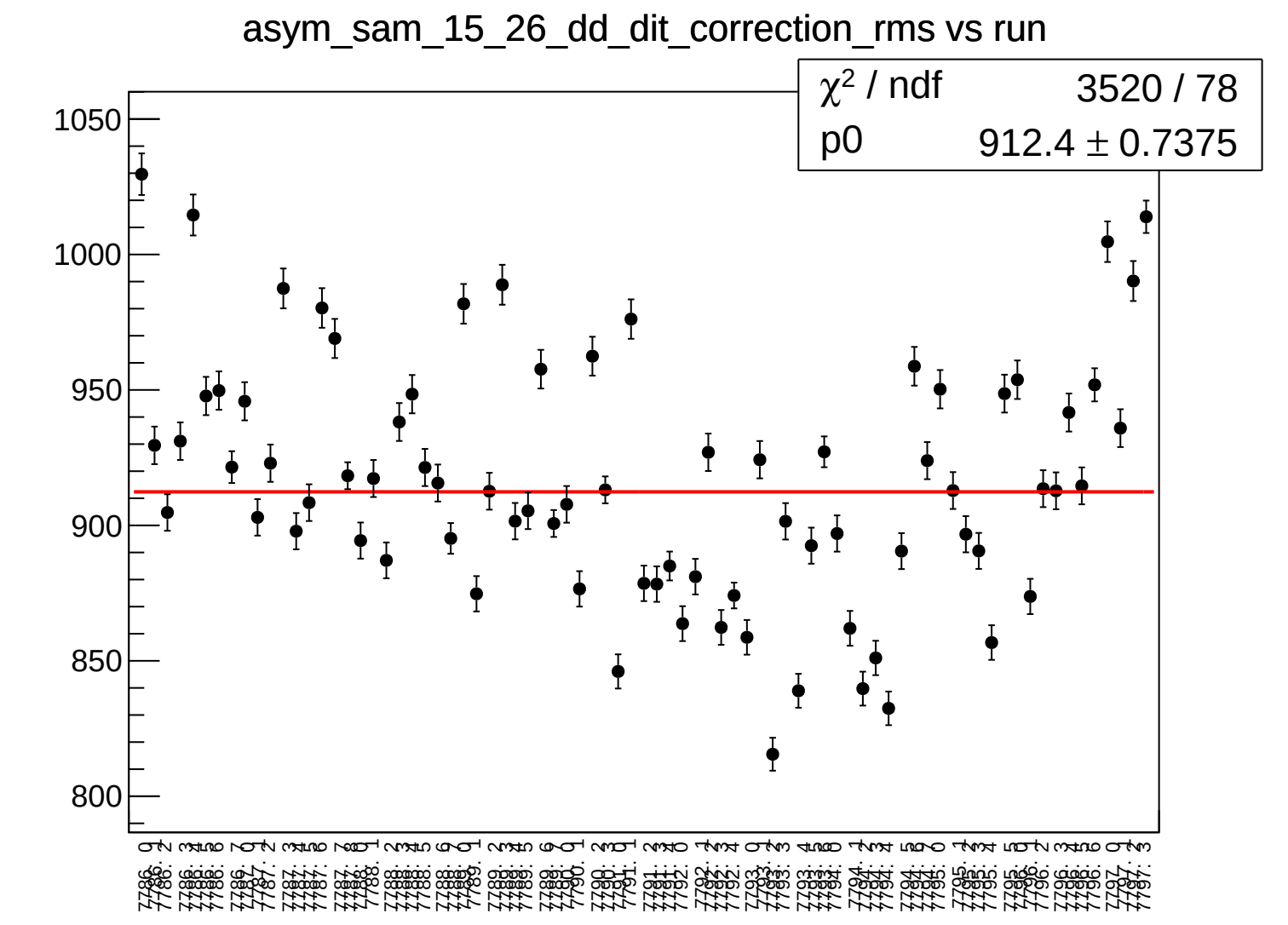

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 79.6 / 78
p0 −20.66 ± 115.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 79
Mean 9044
Std Dev 0
2
1
0
−1
−2
−3
−4

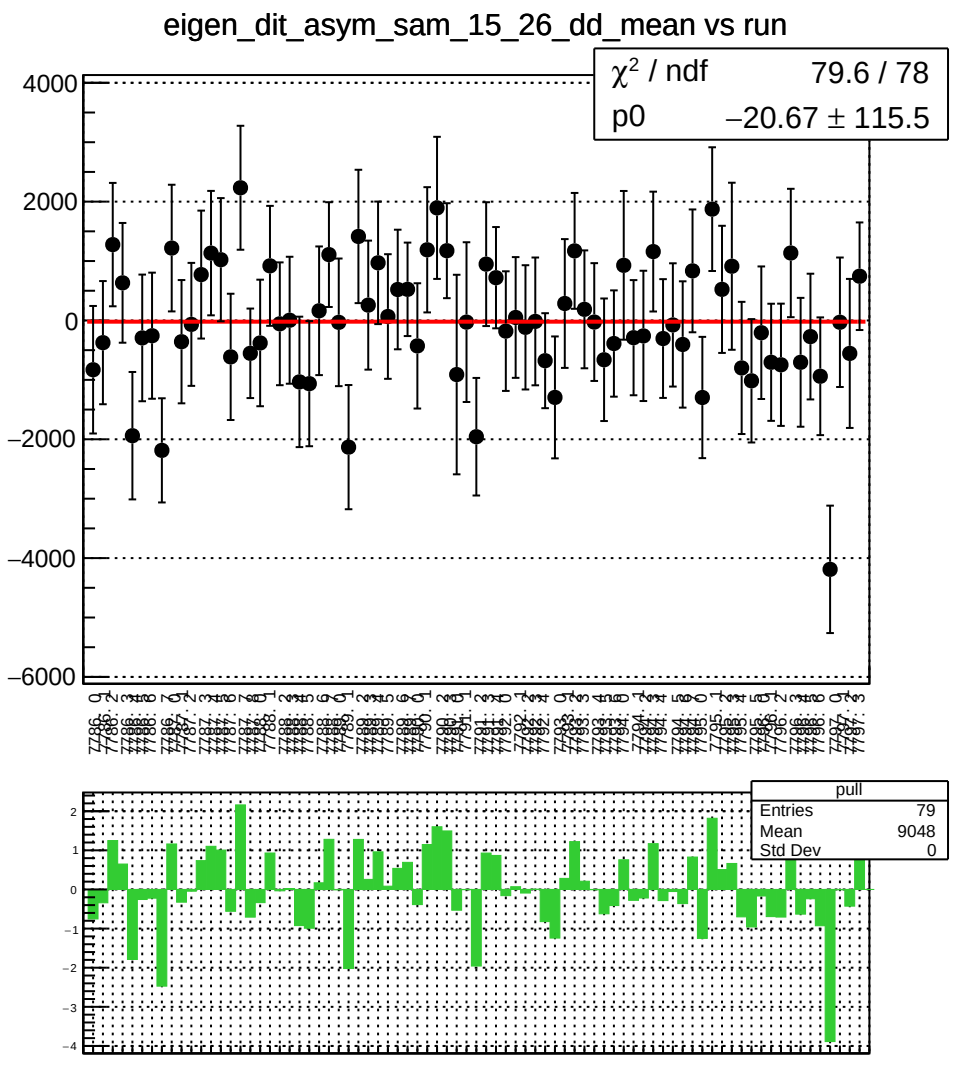

pull1D
Entries 79
Mean −0.0002791
Std Dev 1.004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

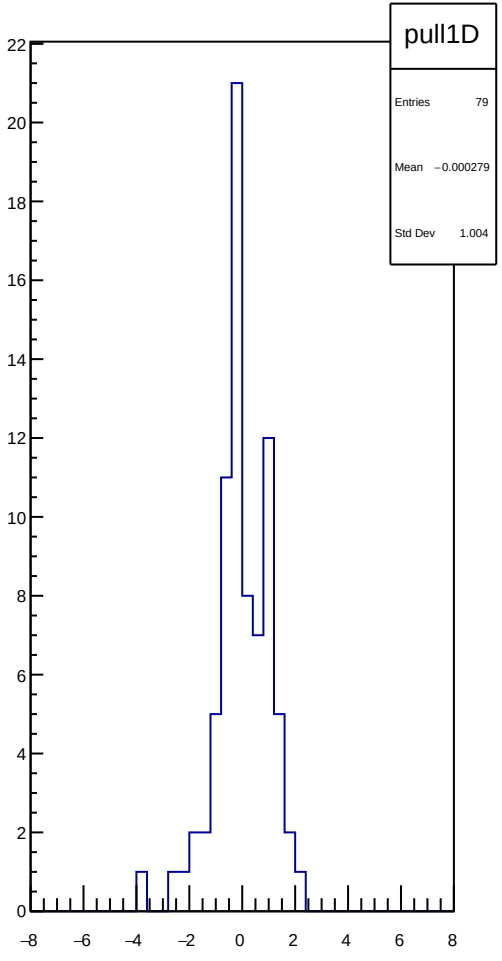

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7303 / 78
p0 100.9 ± 0.08166
160
150
140
130
120
110
100
90

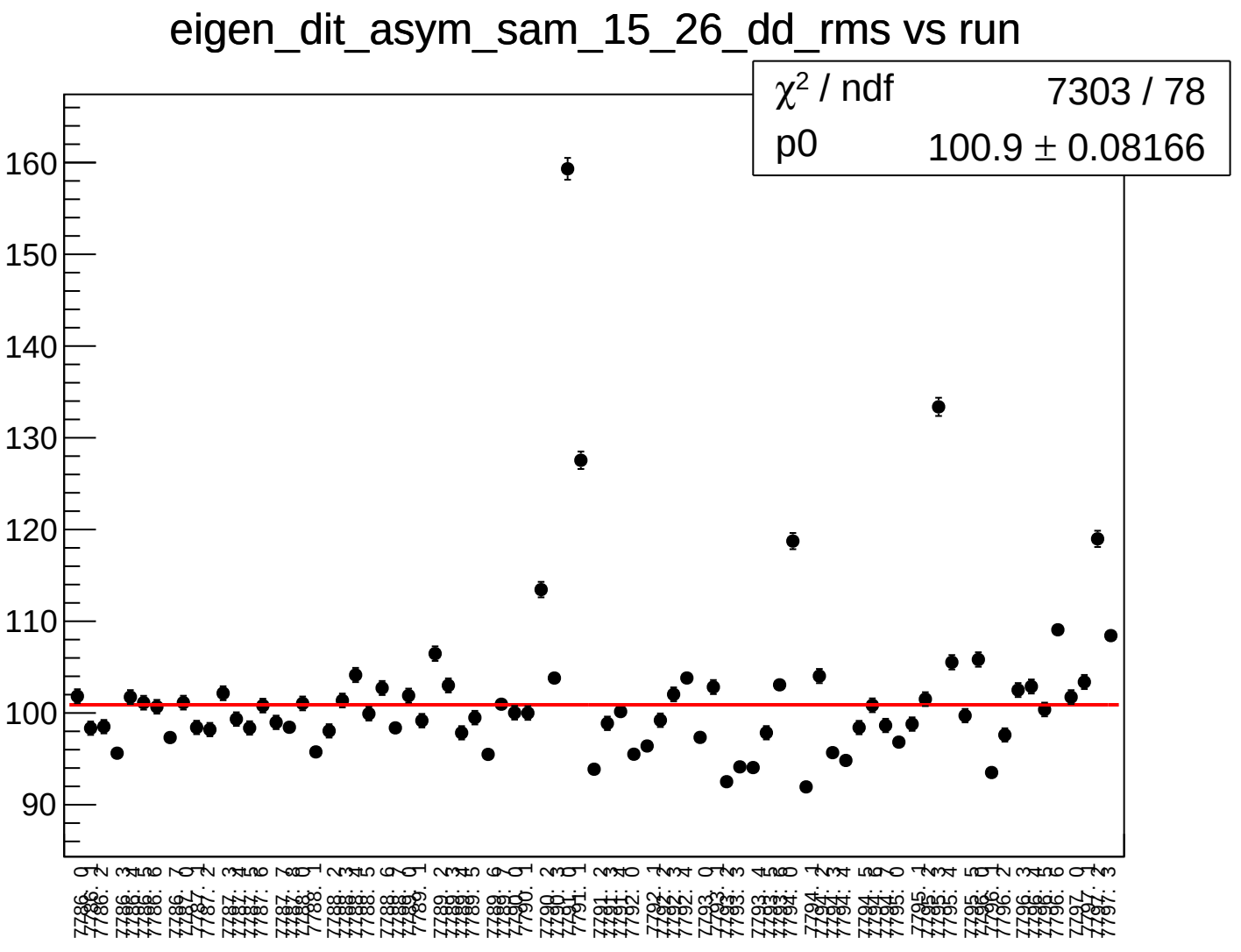

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 78.78 / 78
p0 1647 ± 1043
pull
Entries 79
Mean −30.61
Std Dev 20.37

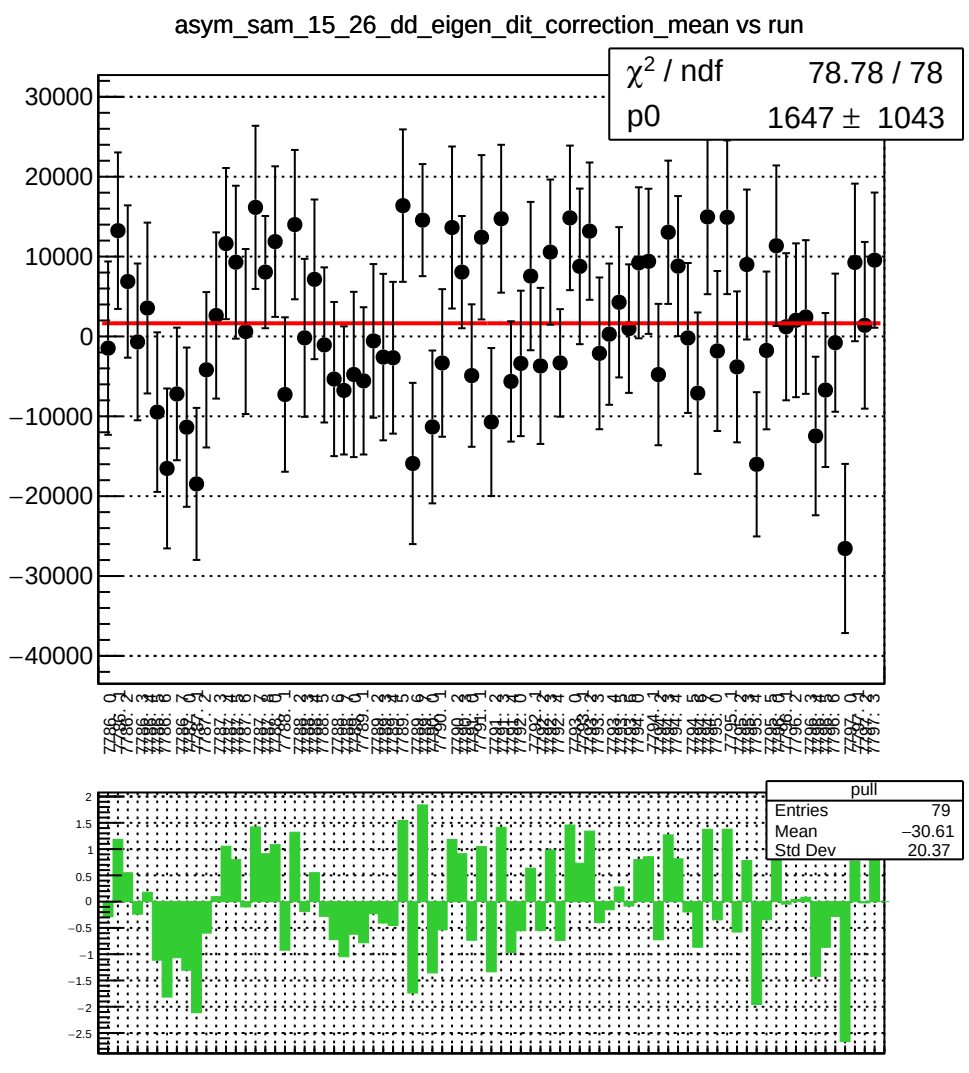

pull1D
Entries 79
Mean −0.0145
Std Dev 0.9985

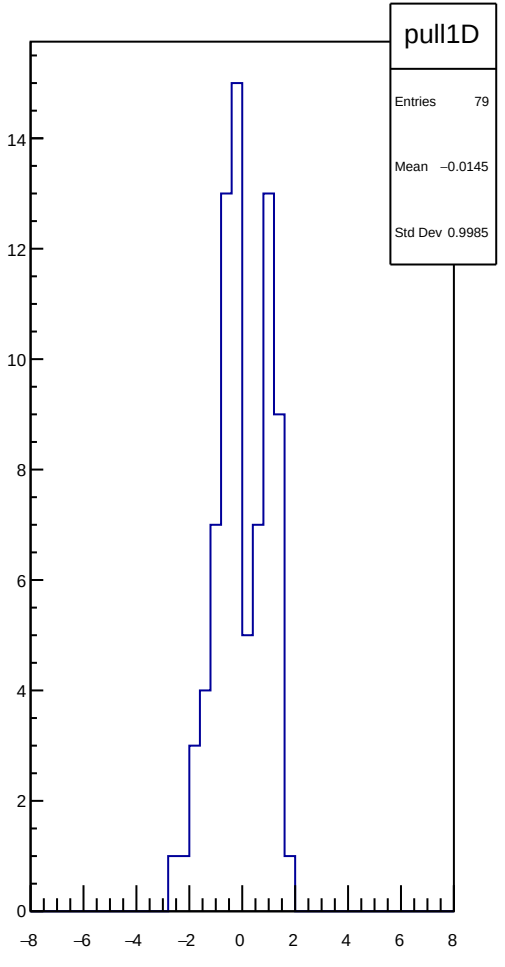

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 3520 / 78
p0 912.4 ± 0.7375
1050
1000
950
900
850
800

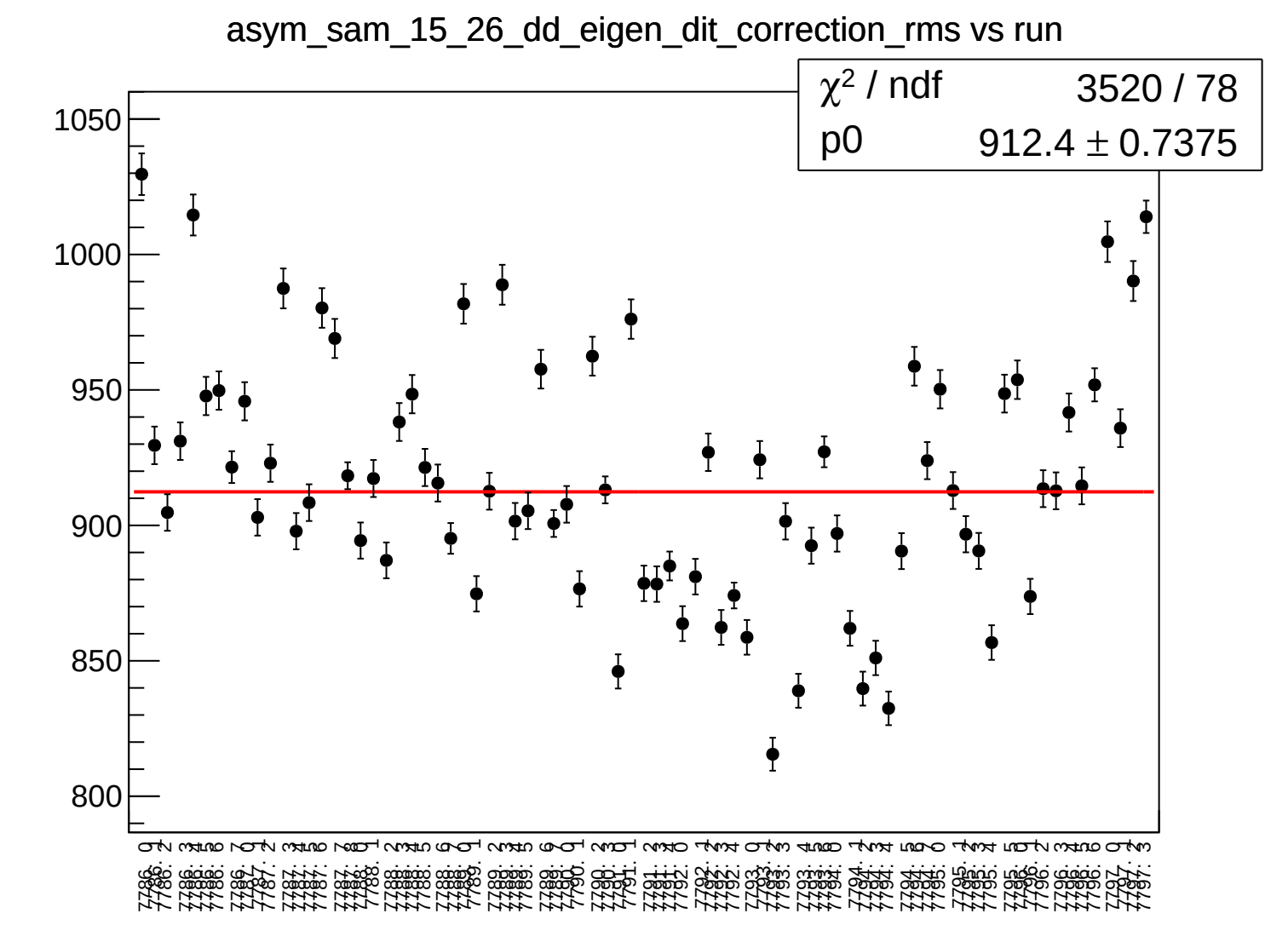

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 79.6 / 78
p0 −20.67 ± 115.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 79
Mean 9048
Std Dev 0
2
1
0
−1
−2
−3
−4

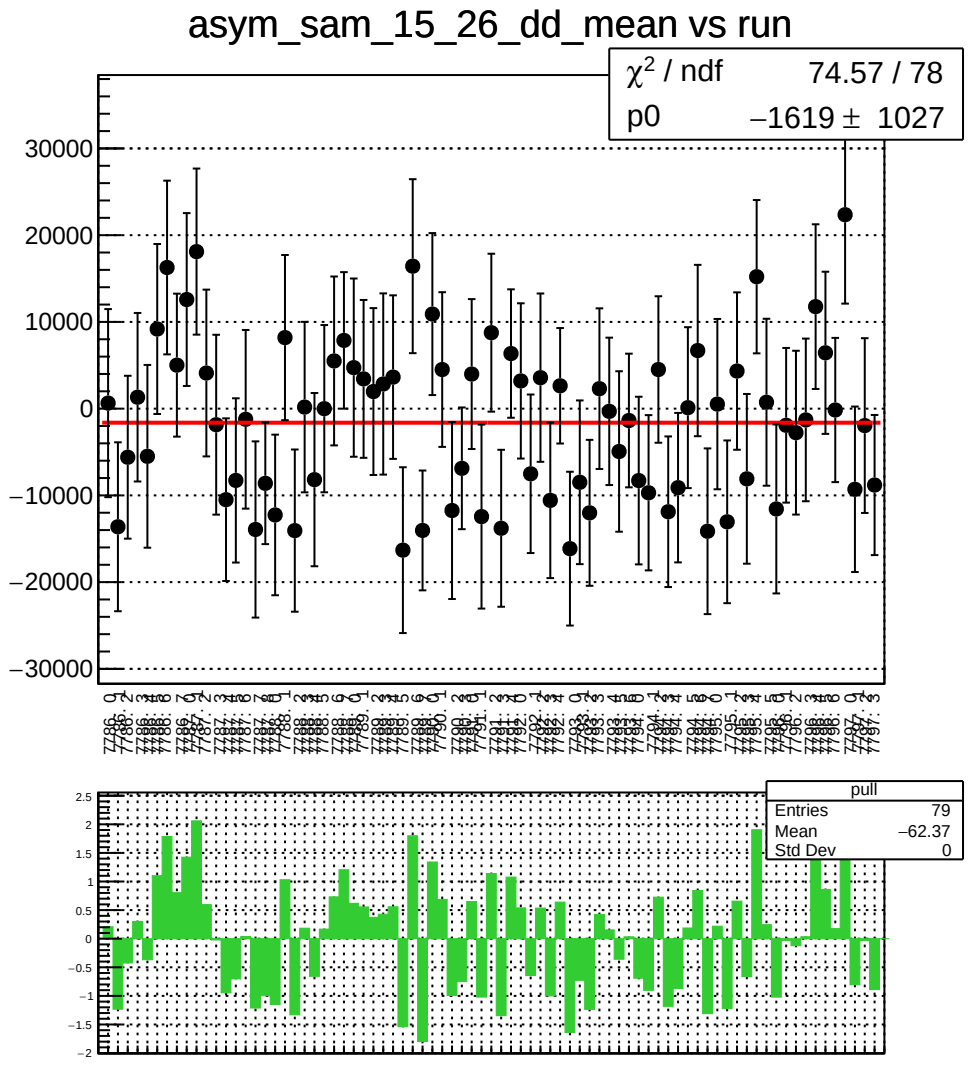

pull1D
Entries 79
Mean −0.000279
Std Dev 1.004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

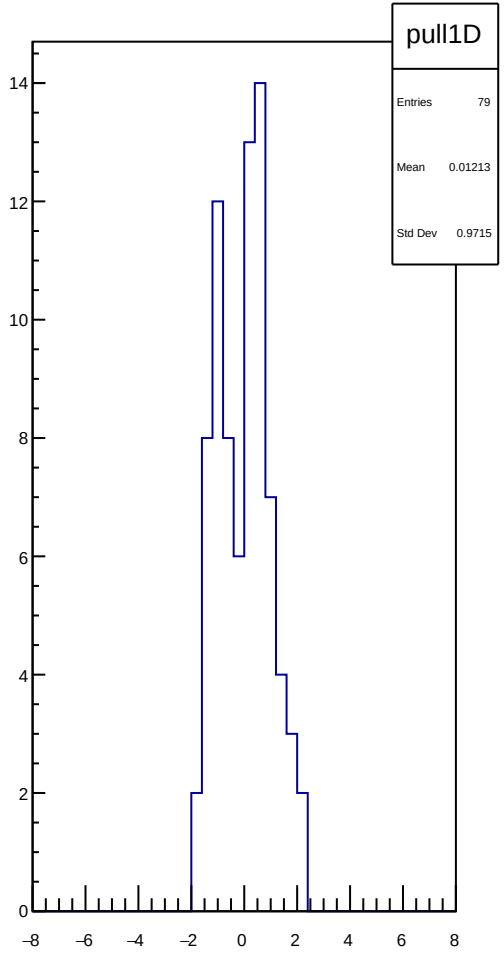

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7303 / 78
p0 100.9 ± 0.08166
160
150
140
130
120
110
100
90

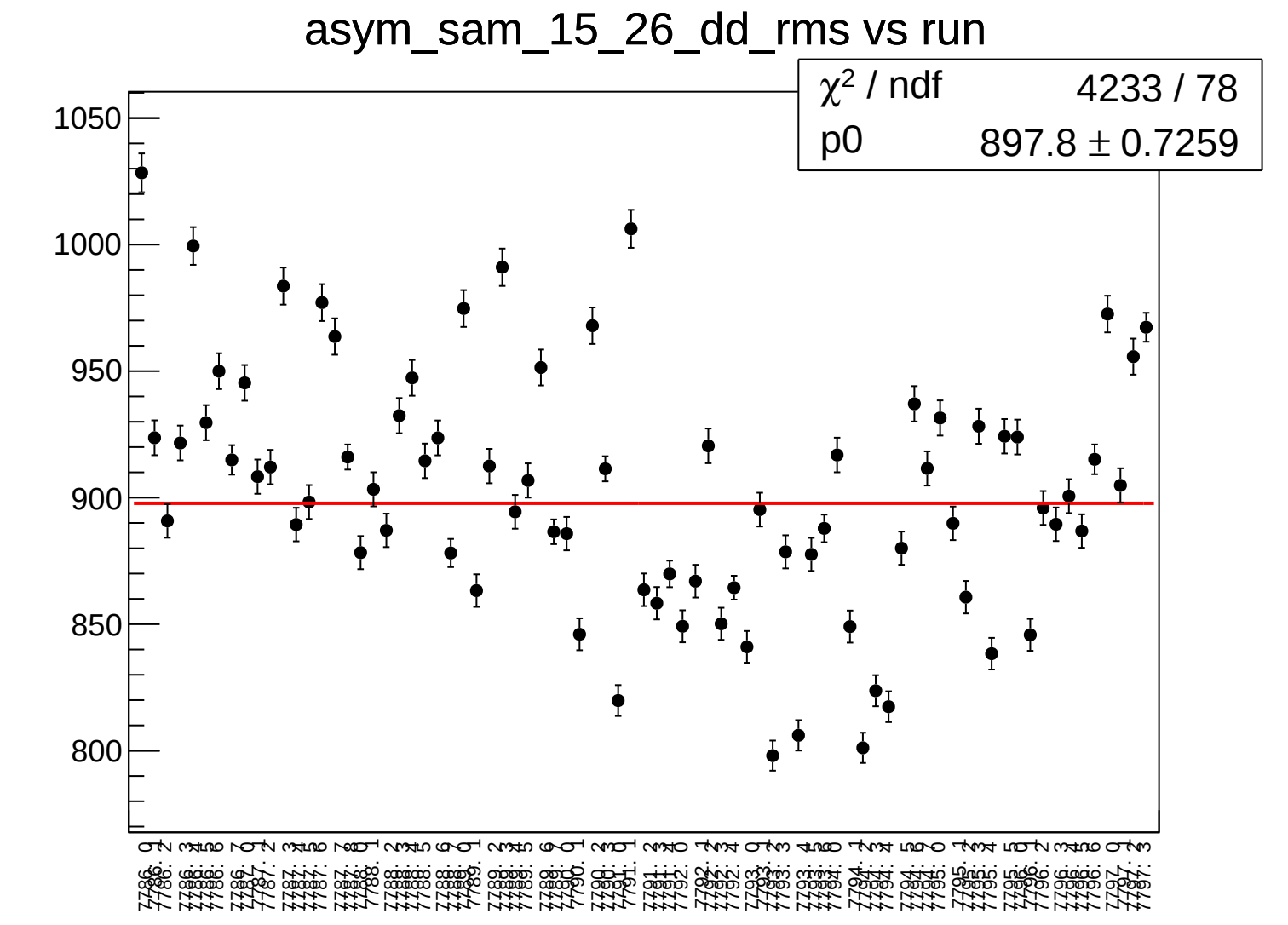

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.78 / 78
p0 1647 ± 1043
pull
Entries 79
Mean −30.61
Std Dev 20.37

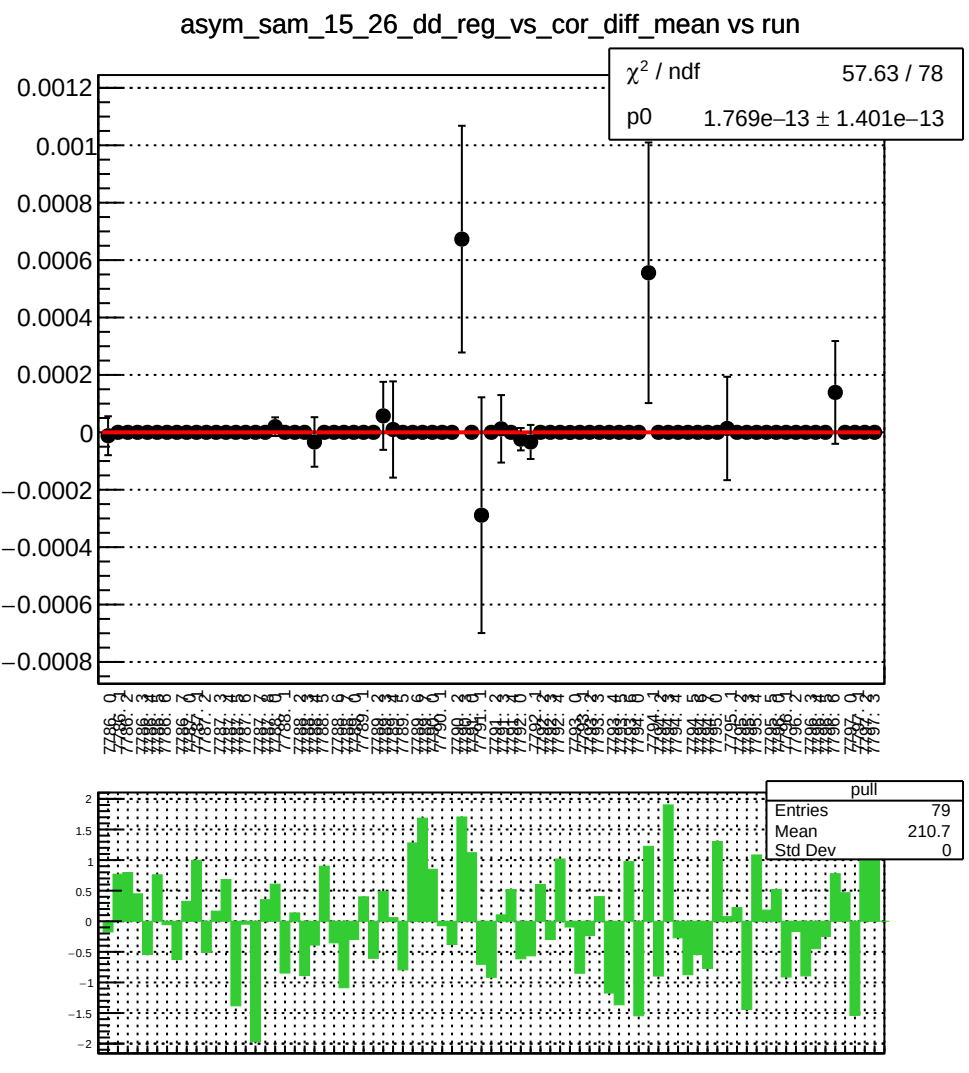

pull1D
Entries 79
Mean −0.0145
Std Dev 0.9985

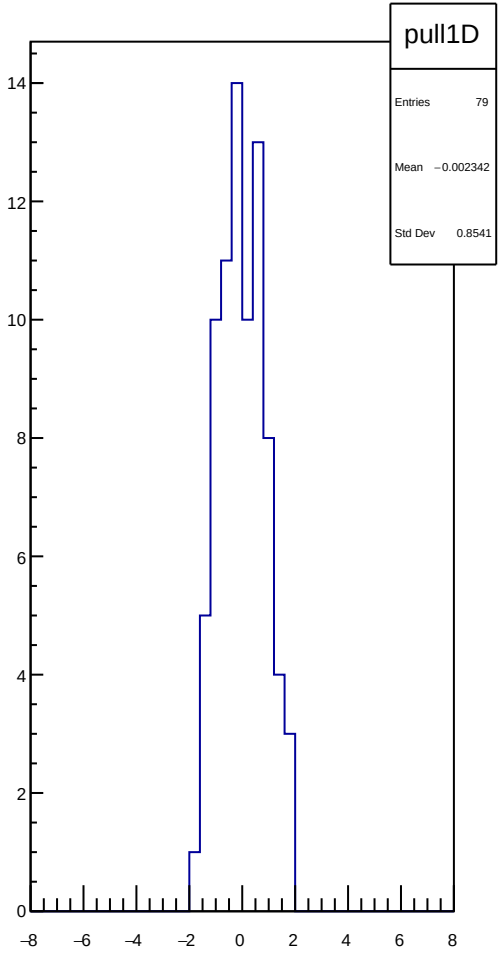

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3520 / 78
p0 912.4 ± 0.7375
1050
1000
950
900
850
800

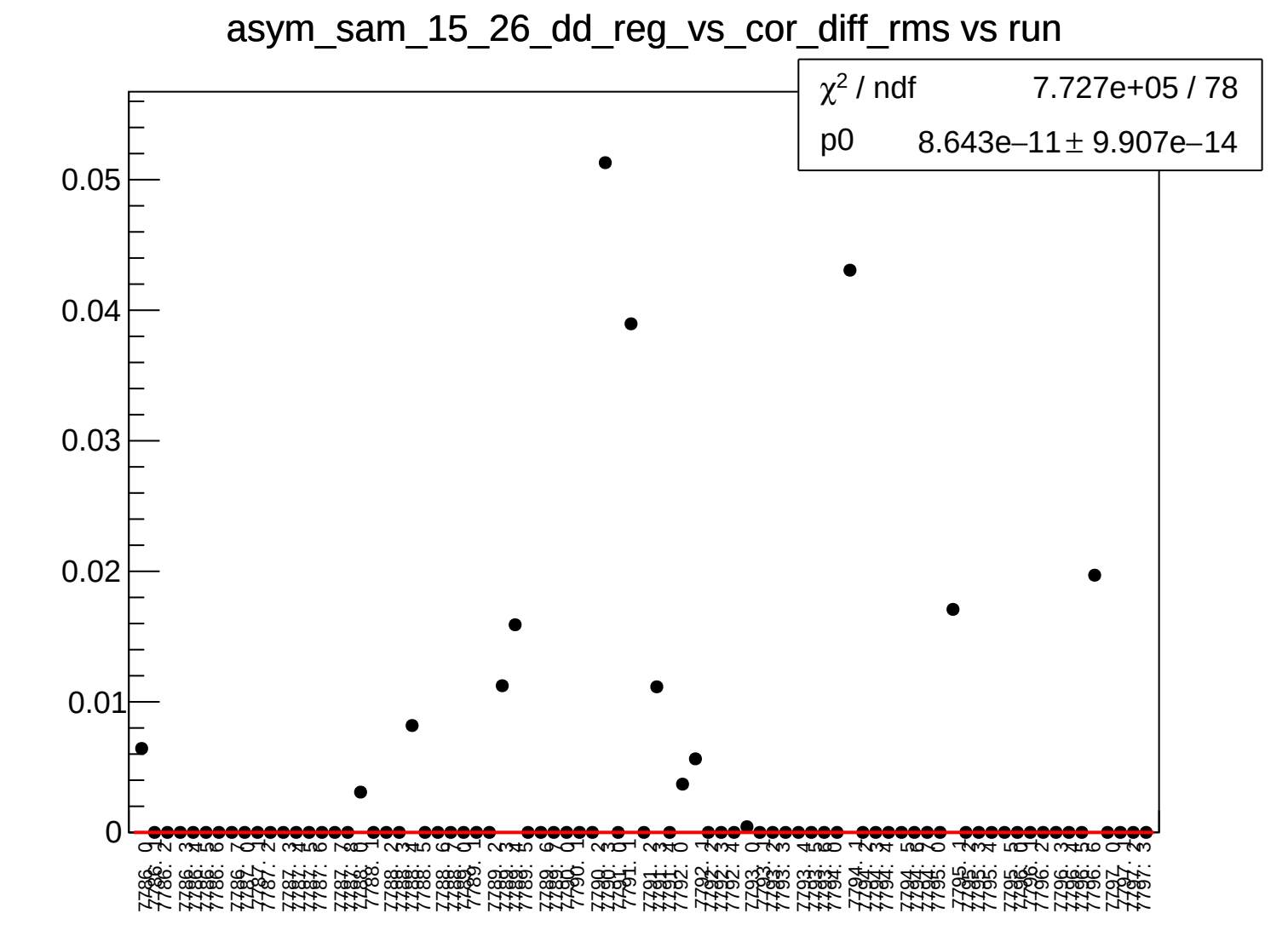

asym_sam_15_26_dd_mean vs run
χ² / ndf 74.57 / 78
p0 −1619 ± 1027
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −62.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

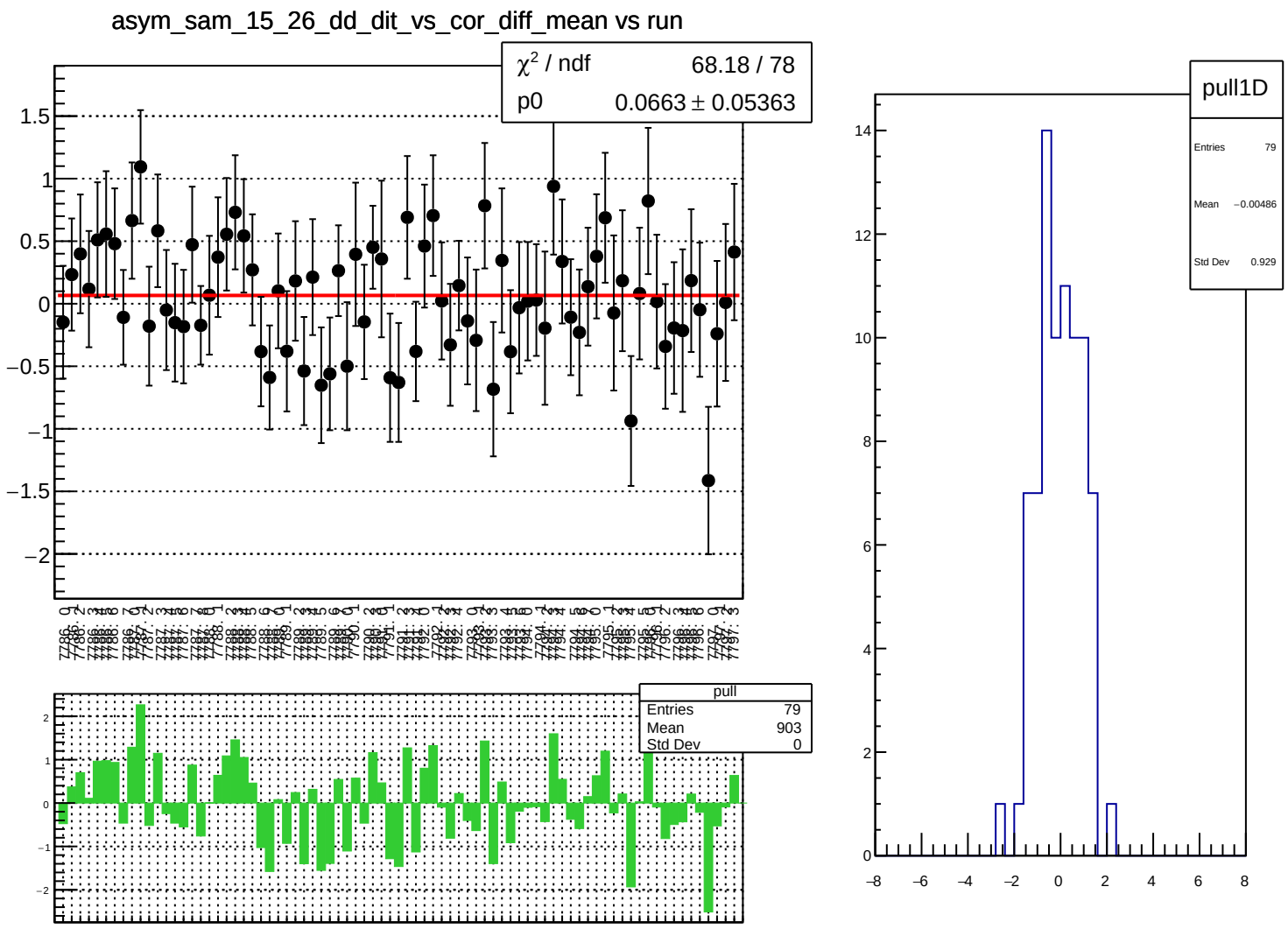

pull1D
Entries 79
Mean 0.01213
Std Dev 0.9715
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

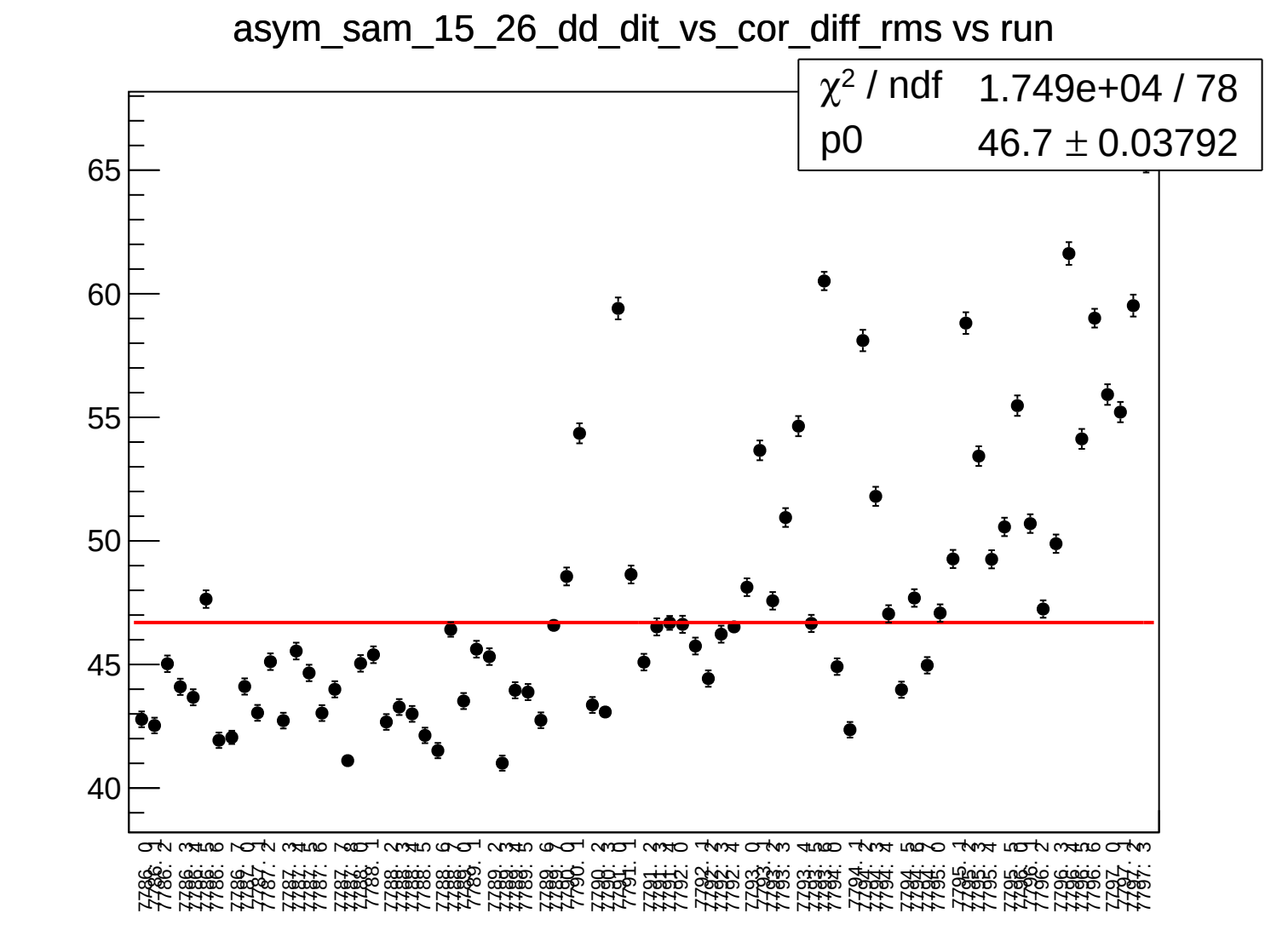

asym_sam_15_26_dd_rms vs run
χ² / ndf 4233 / 78
p0 897.8 ± 0.7259
1050
1000
950
900
850
800

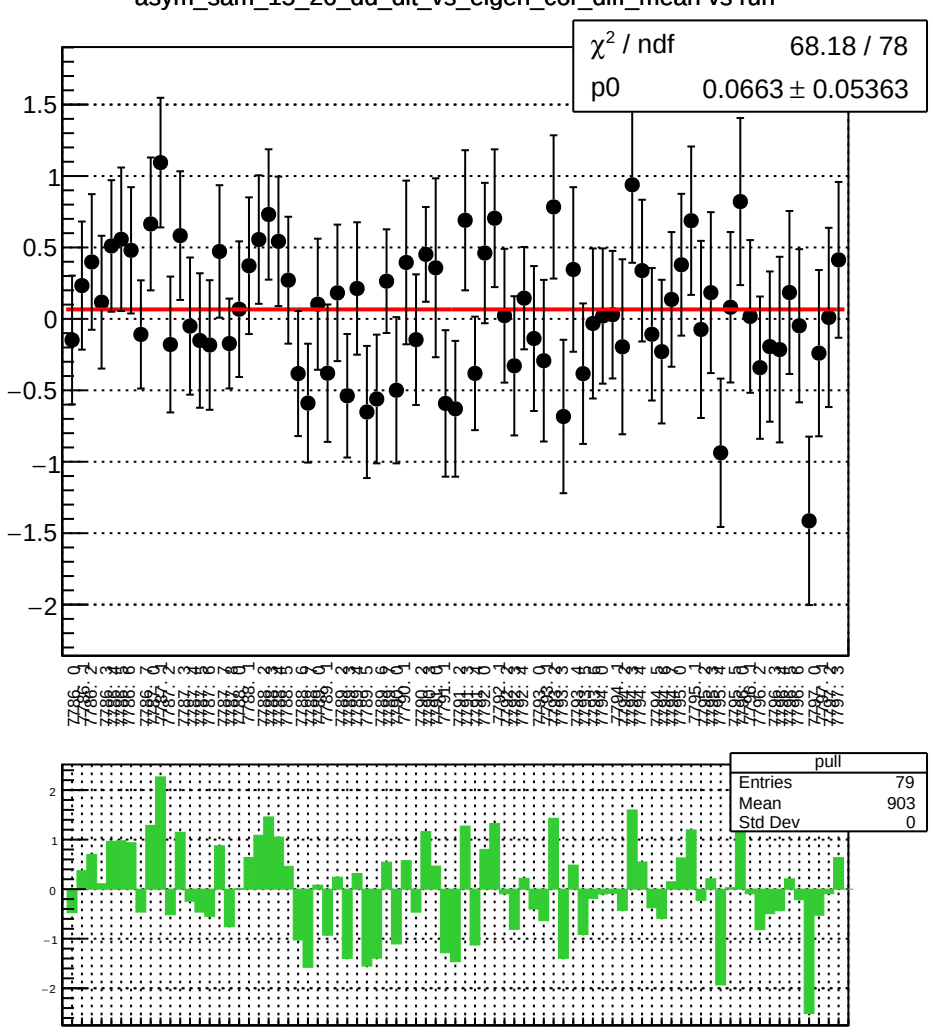

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 57.63 / 78
p0 1.769e−13 ± 1.401e−13
pull
Entries 79
Mean 210.7
Std Dev 0

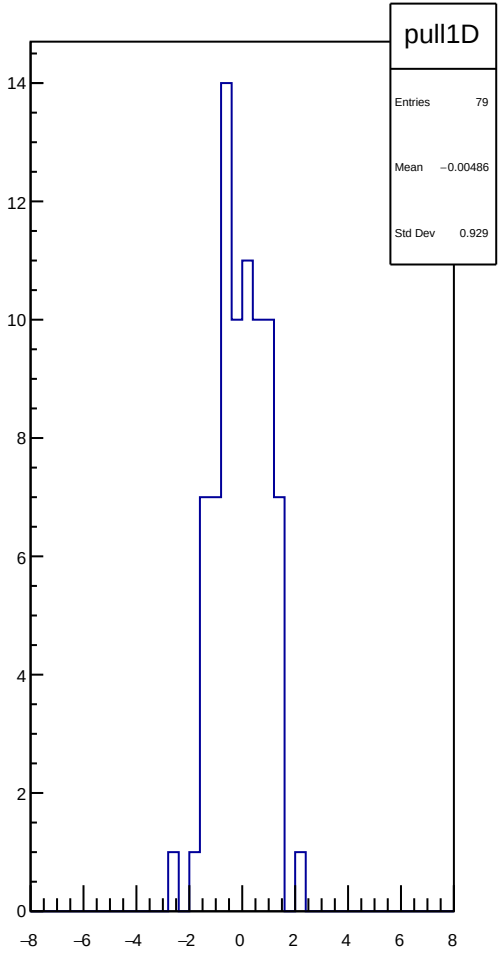

pull1D
Entries 79
Mean −0.002342
Std Dev 0.8541

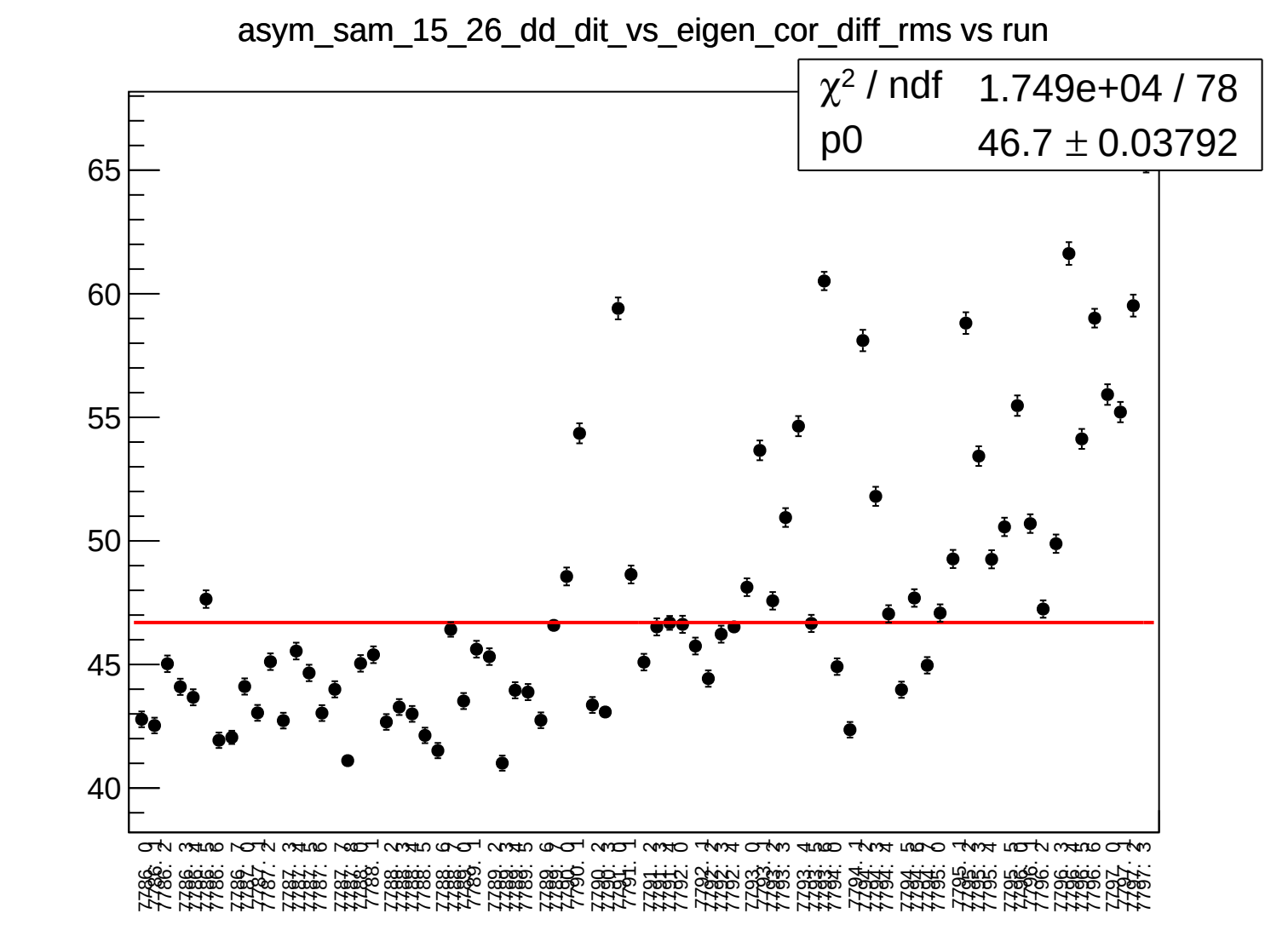

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.727e+05 / 78
p0 8.643e−11 ± 9.907e−14
0.05
0.04
0.03
0.02
0.01
0

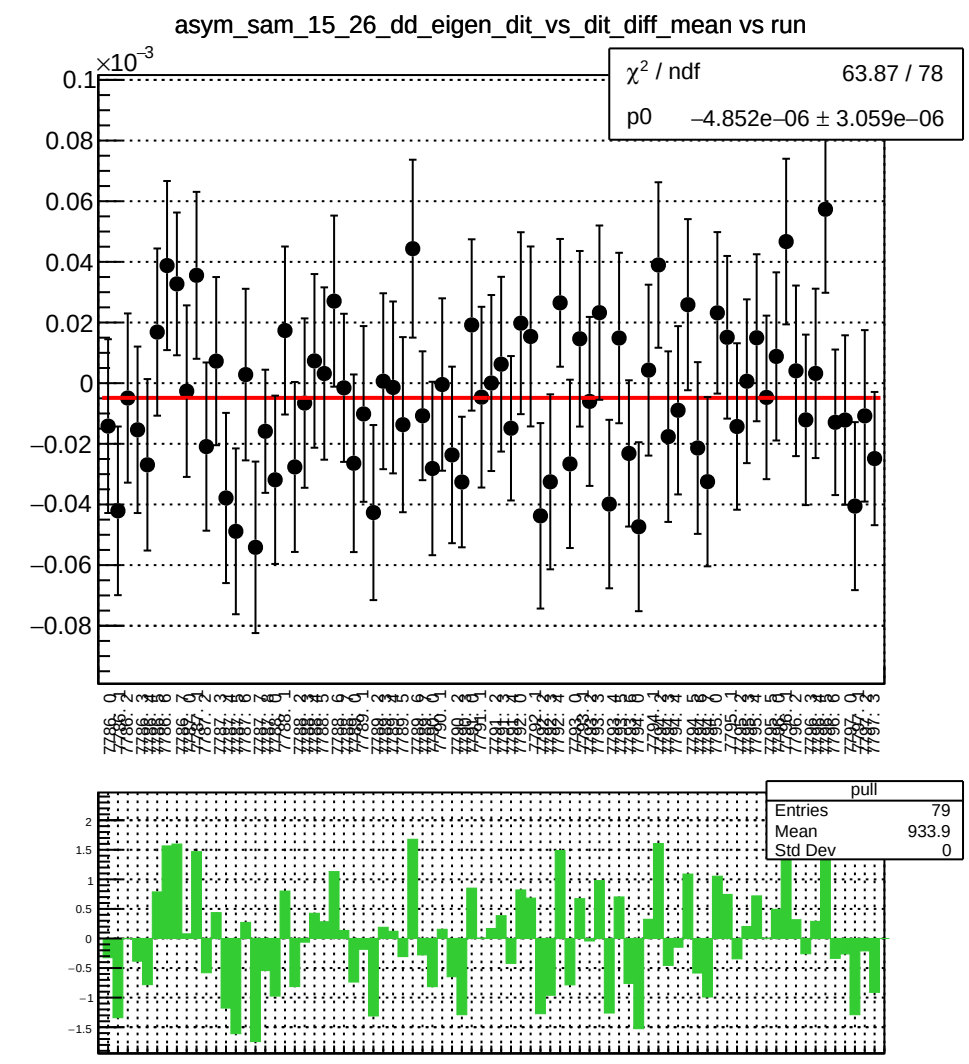

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.18 / 78
p0 0.0663 ± 0.05363
pull
Entries 79
Mean 903
Std Dev 0
pull1D
Entries 79
Mean −0.00486
Std Dev 0.929

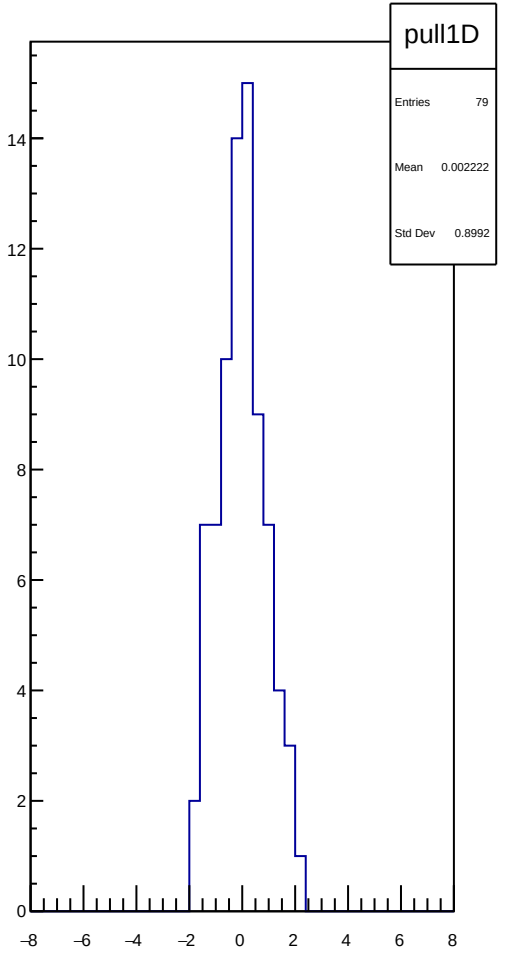

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.749e+04 / 78
p0 46.7 ± 0.03792
65
60
55
50
45
40

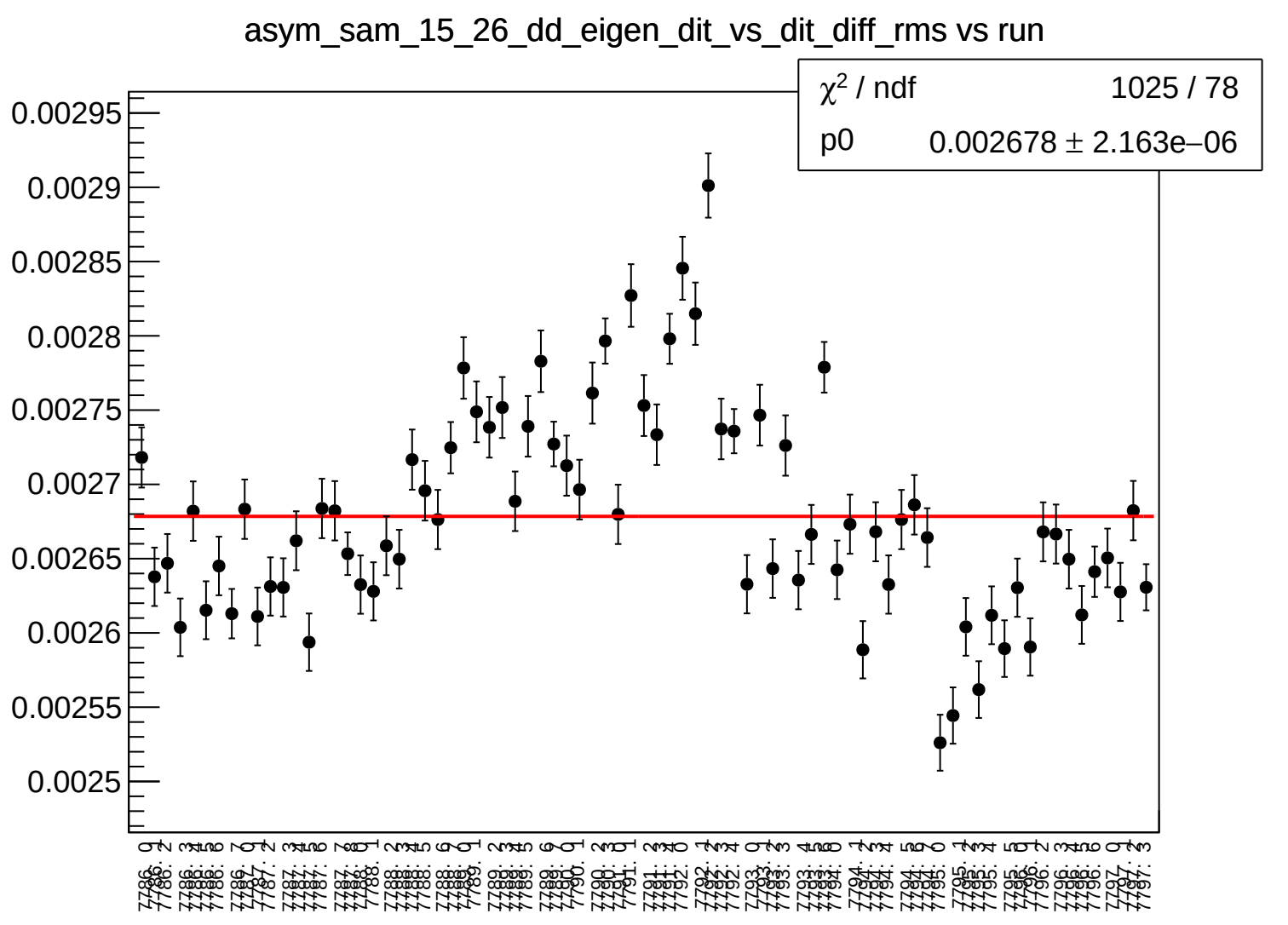

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 68.18 / 78
p0 0.0663 ± 0.05363
pull
Entries 79
Mean 903
Std Dev 0

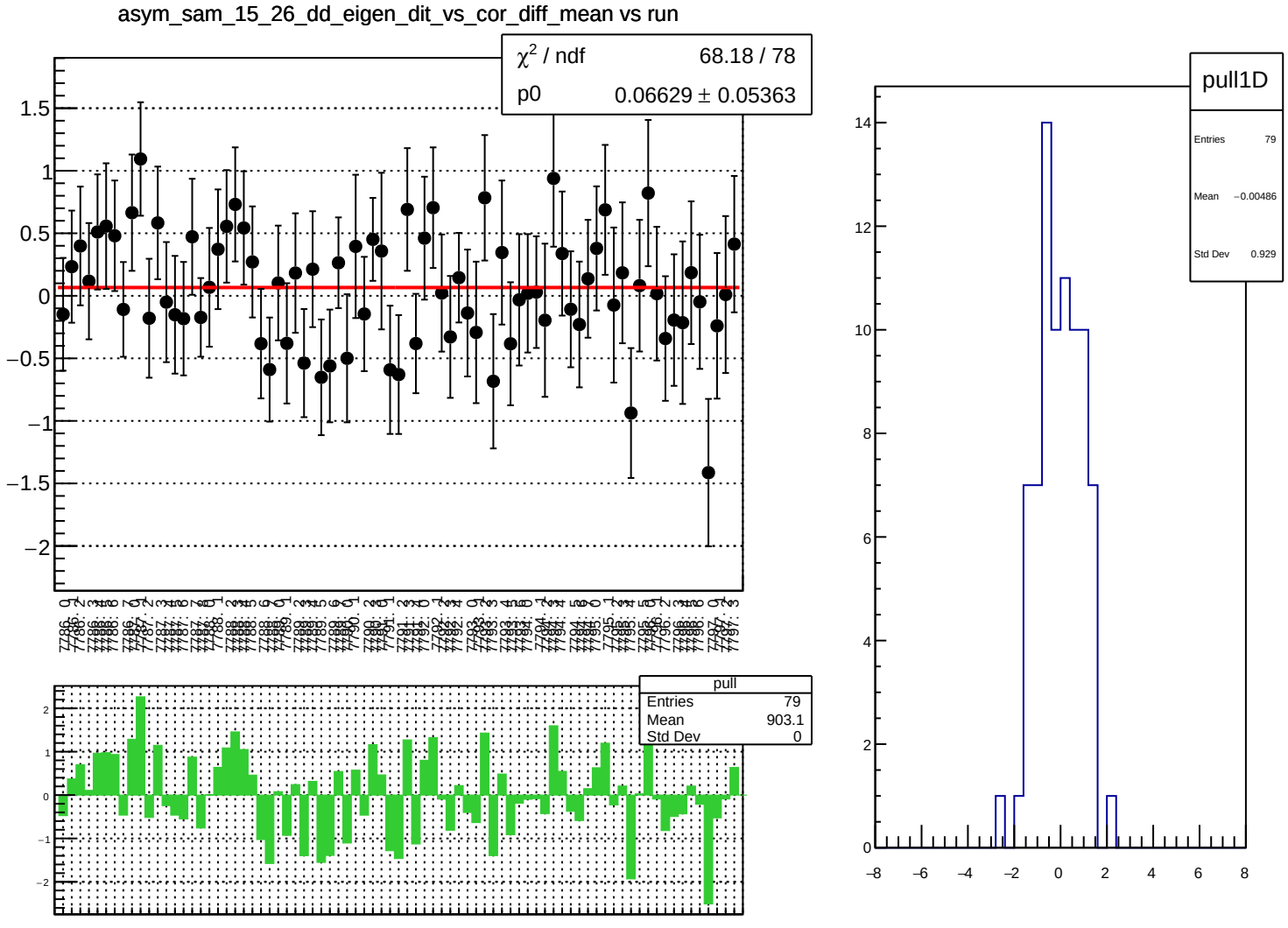

pull1D
Entries 79
Mean −0.00486
Std Dev 0.929

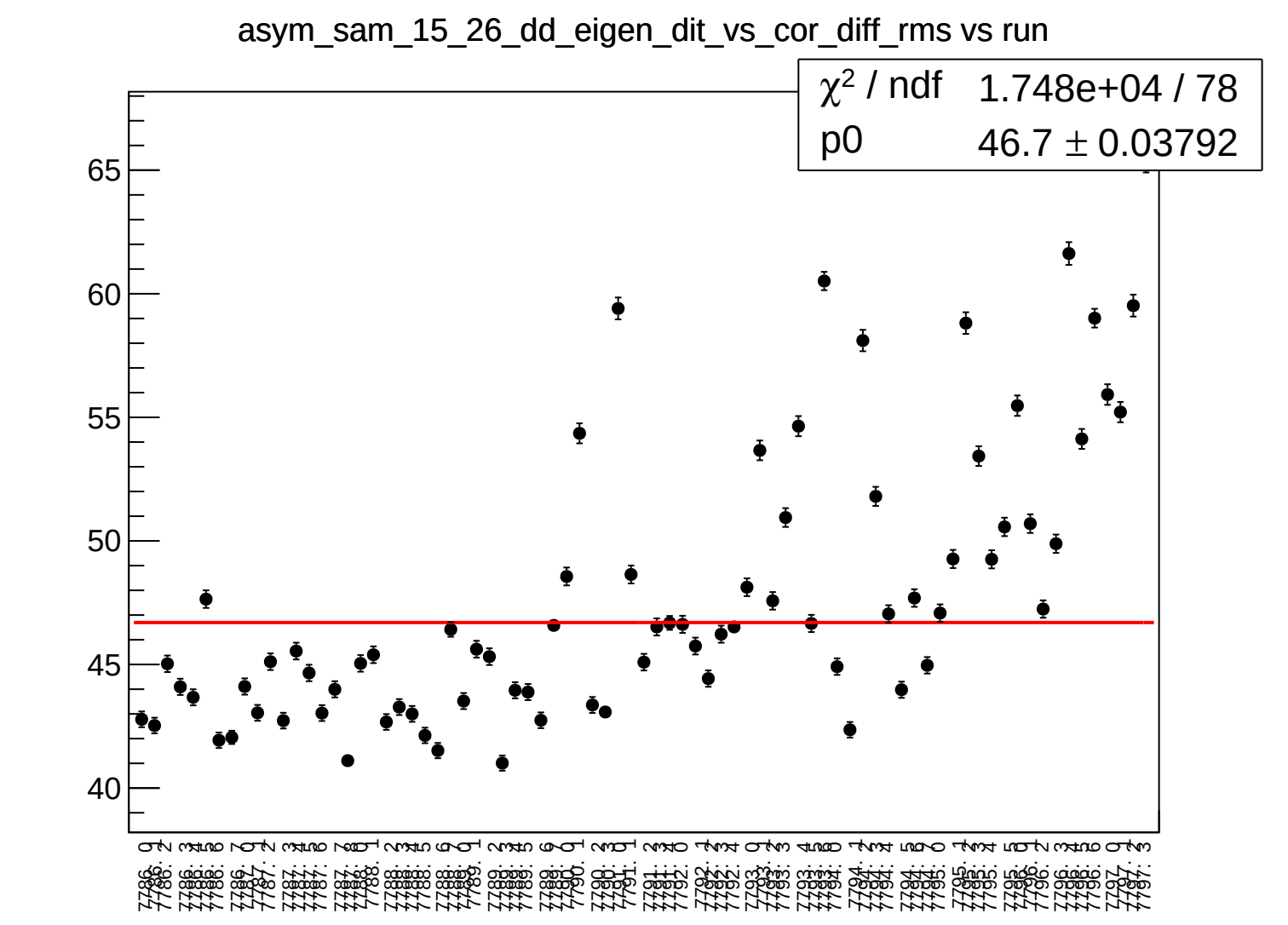

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.749e+04 / 78
p0 46.7 ± 0.03792
65
60
55
50
45
40

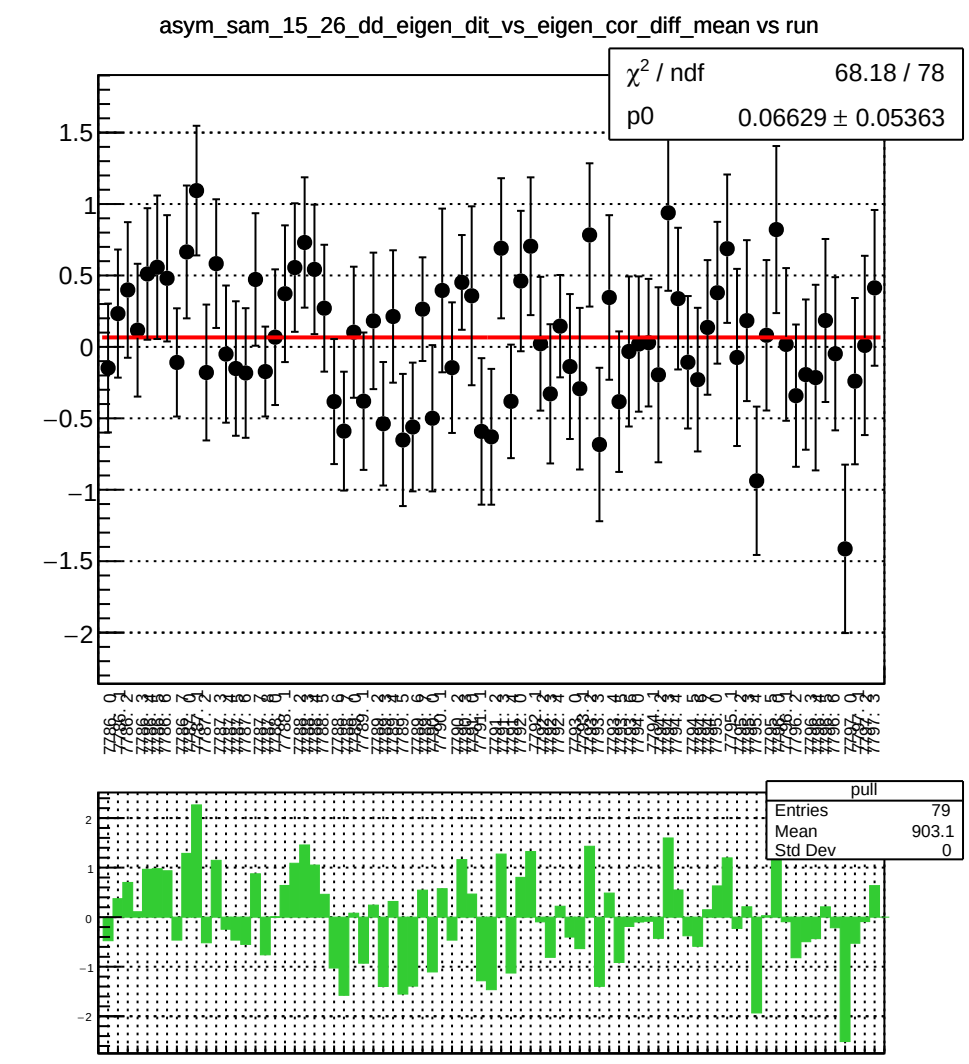

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.87 / 78
p0 −4.852e−06 ± 3.059e−06
pull
Entries 79
Mean 933.9
Std Dev 0

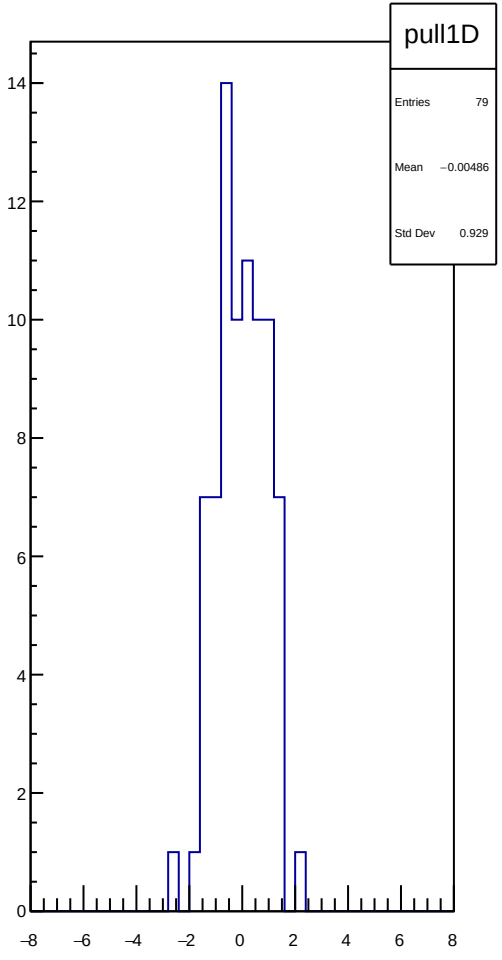

pull1D
Entries 79
Mean 0.002222
Std Dev 0.8992

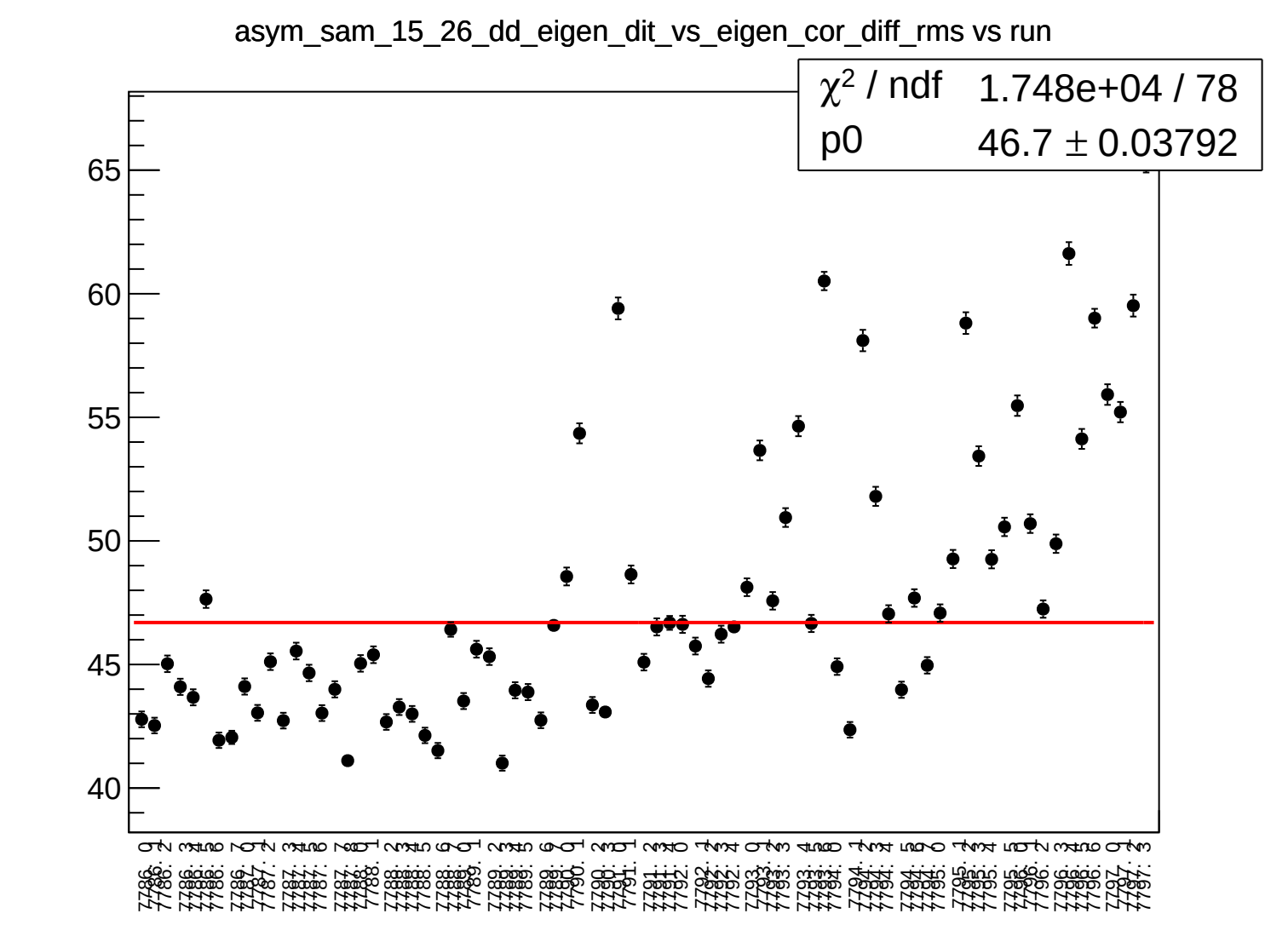

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1025 / 78
p0 0.002678 ± 2.163e−06
0.00295
0.0029
0.00285
0.0028
0.00275
0.0027
0.00265
0.0026
0.00255
0.0025

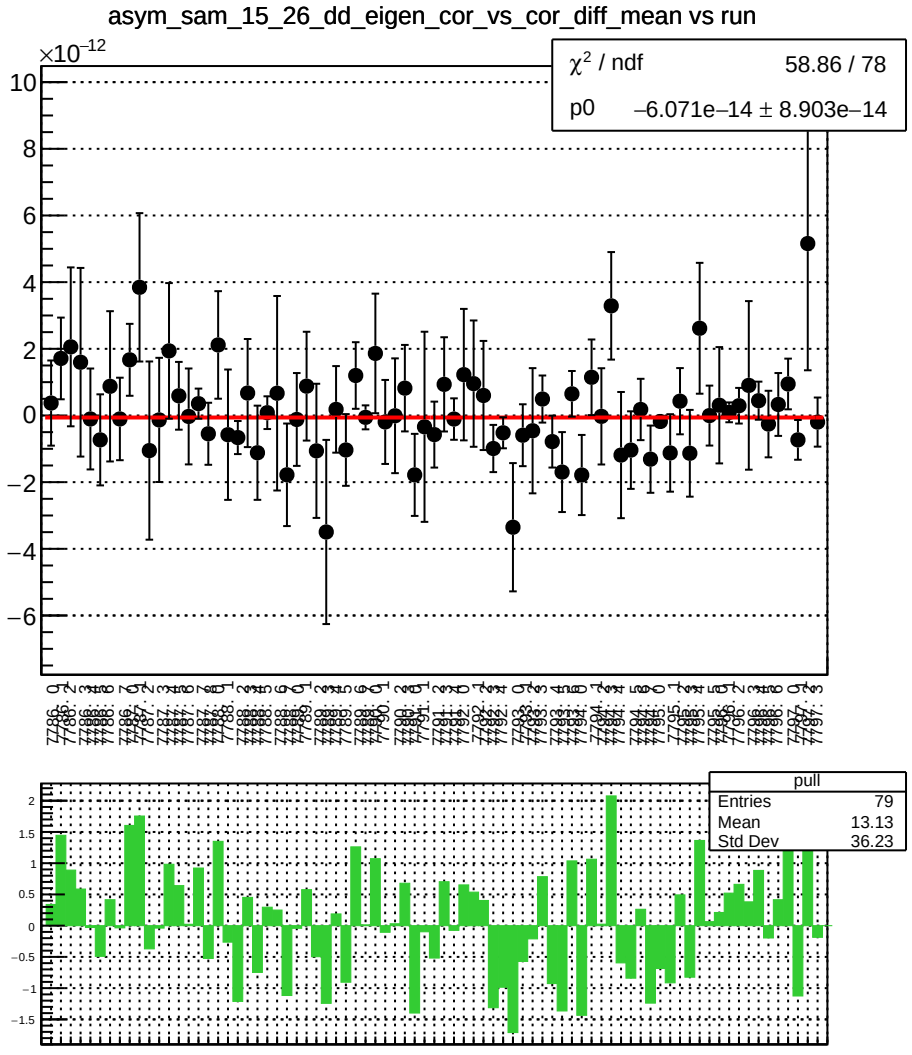

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.18 / 78
p0 0.06629 ± 0.05363
pull
Entries 79
Mean 903.1
Std Dev 0
pull1D
Entries 79
Mean −0.00486
Std Dev 0.929

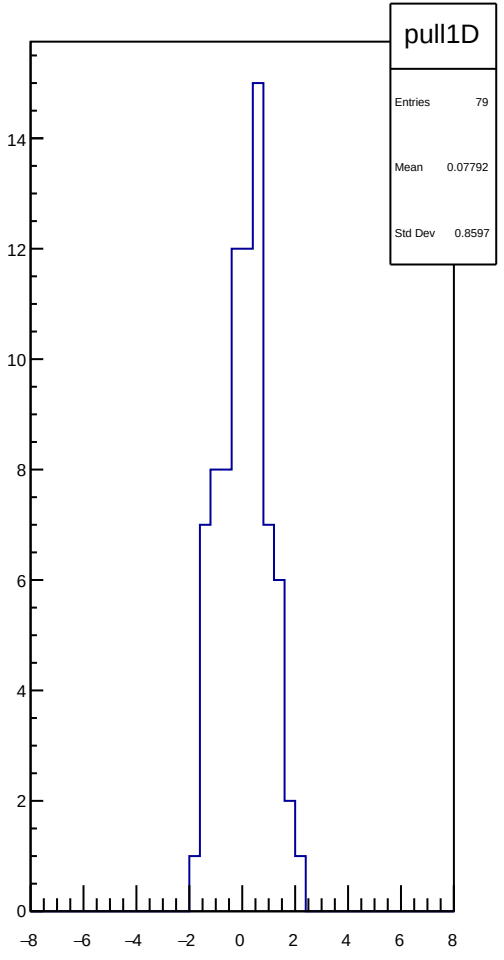

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.748e+04 / 78
p0 46.7 ± 0.03792
65
60
55
50
45
40

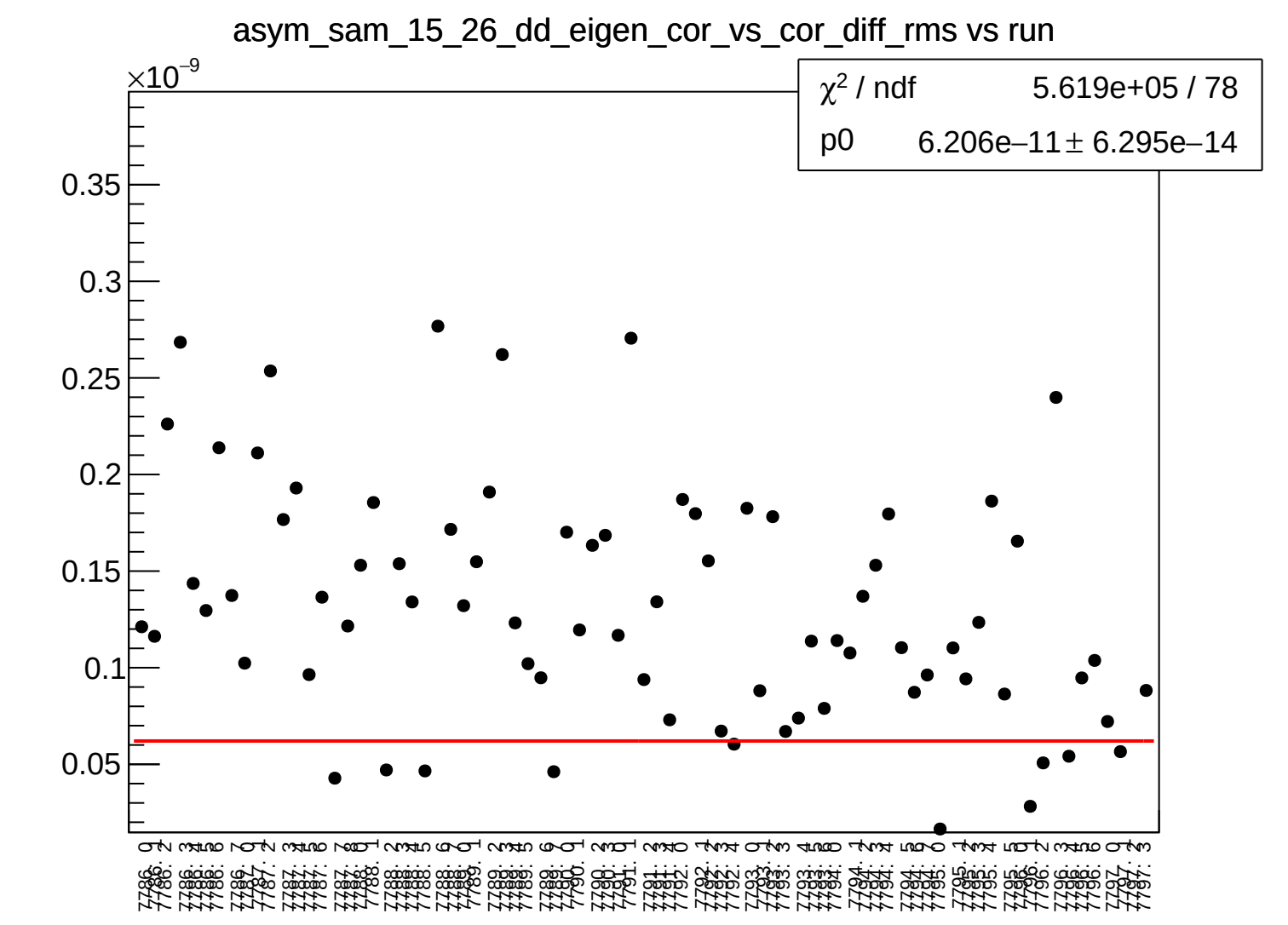

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.18 / 78
p0 0.06629 ± 0.05363
pull
Entries 79
Mean 903.1
Std Dev 0

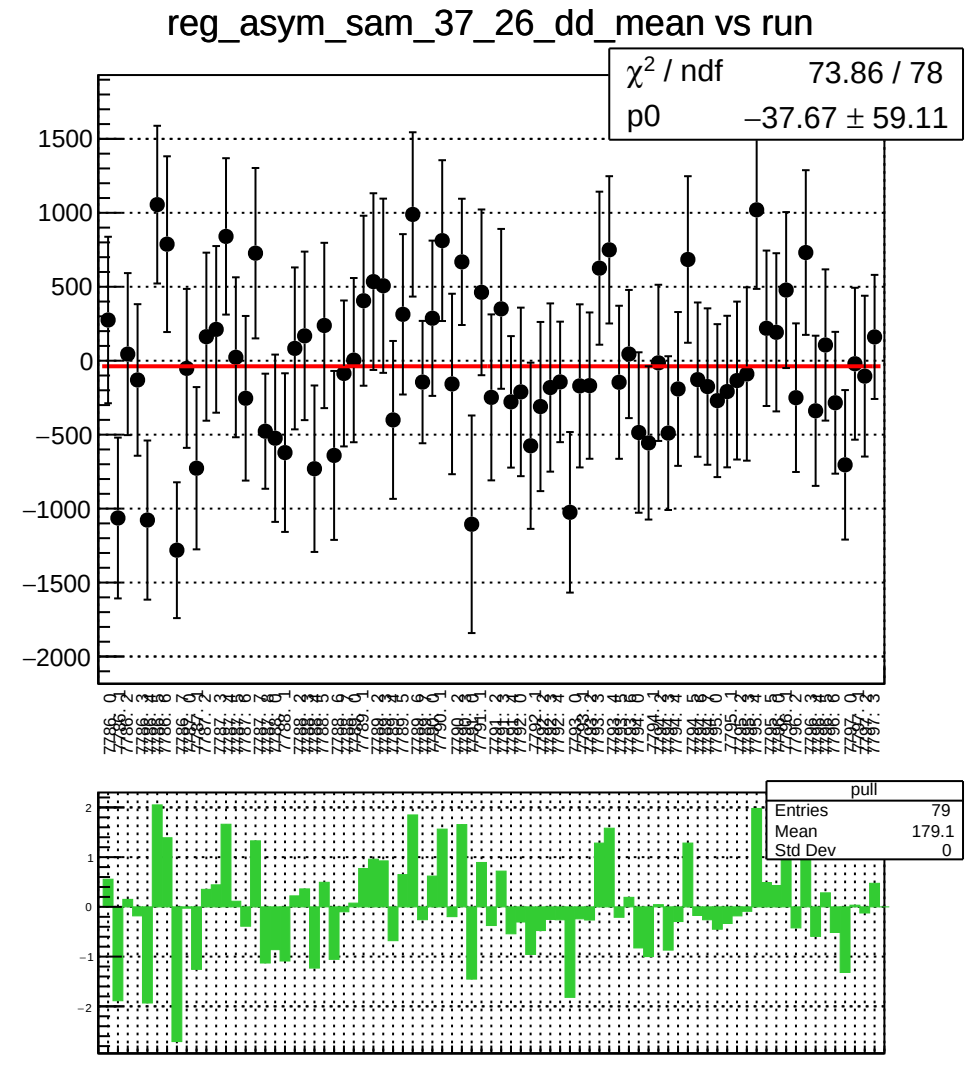

pull1D
Entries 79
Mean −0.00486
Std Dev 0.929

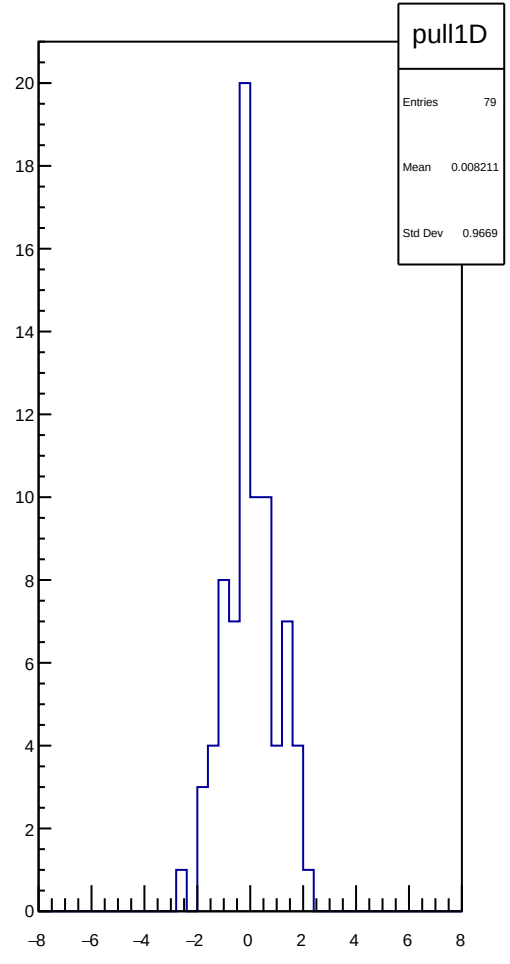

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.748e+04 / 78
p0 46.7 ± 0.03792
65
60
55
50
45
40

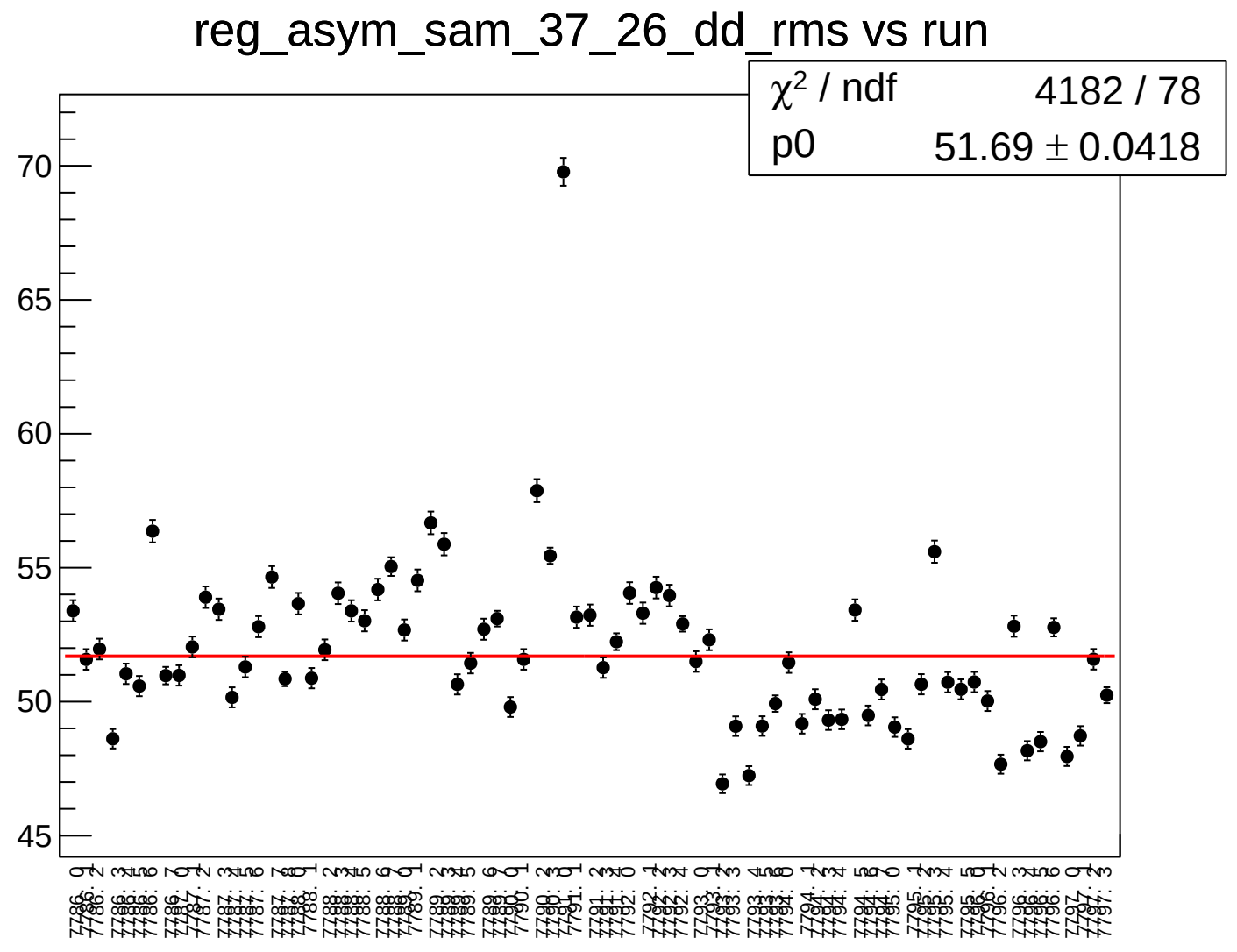

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.86 / 78
p0 −6.071e−14 ± 8.903e−14
pull
Entries 79
Mean 13.13
Std Dev 36.23

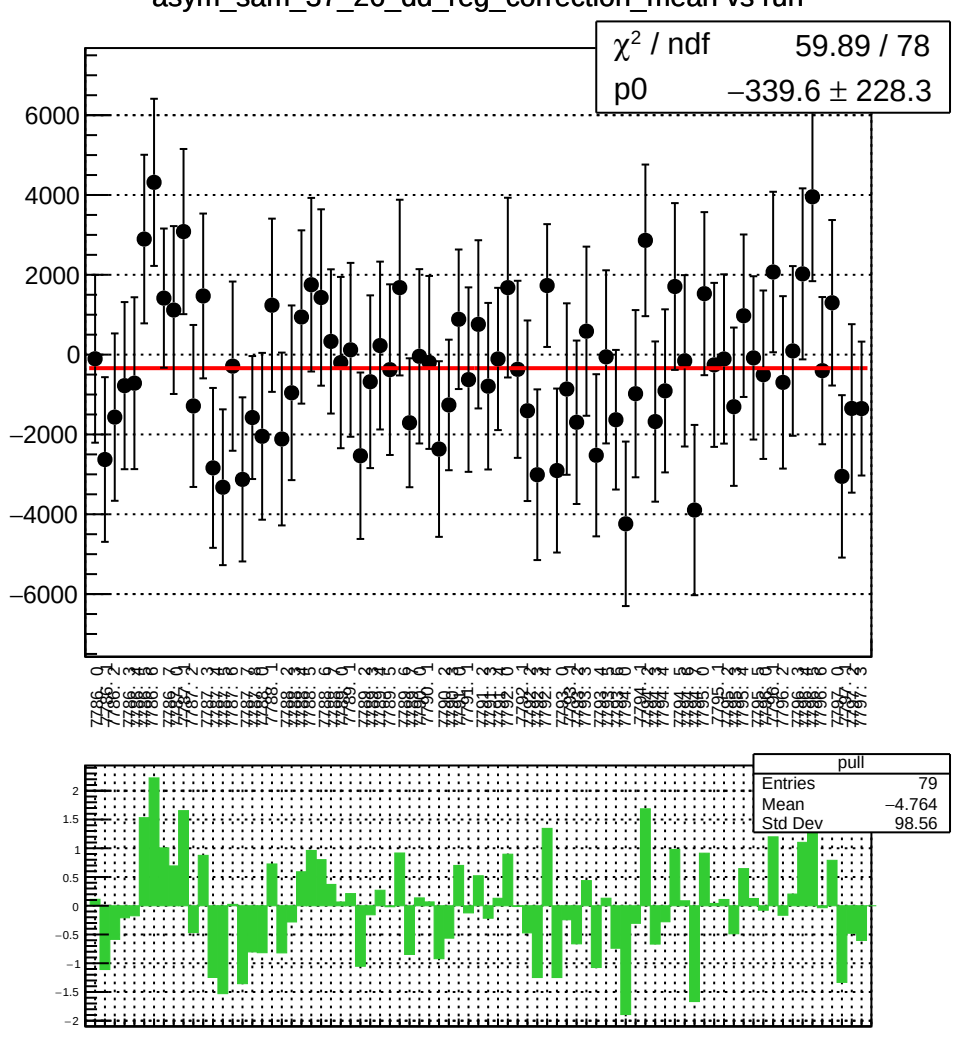

pull1D
Entries 79
Mean 0.07792
Std Dev 0.8597

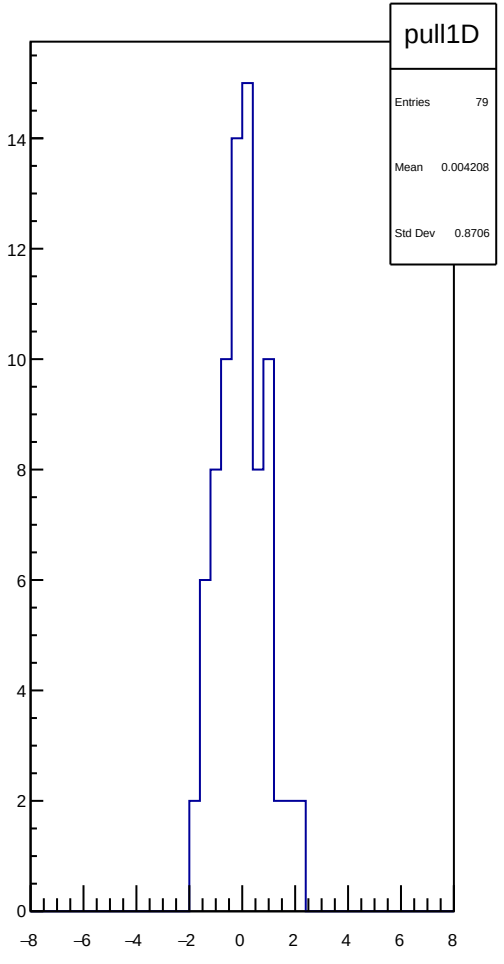

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.619e+05 / 78
p0 6.206e−11 ± 6.295e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

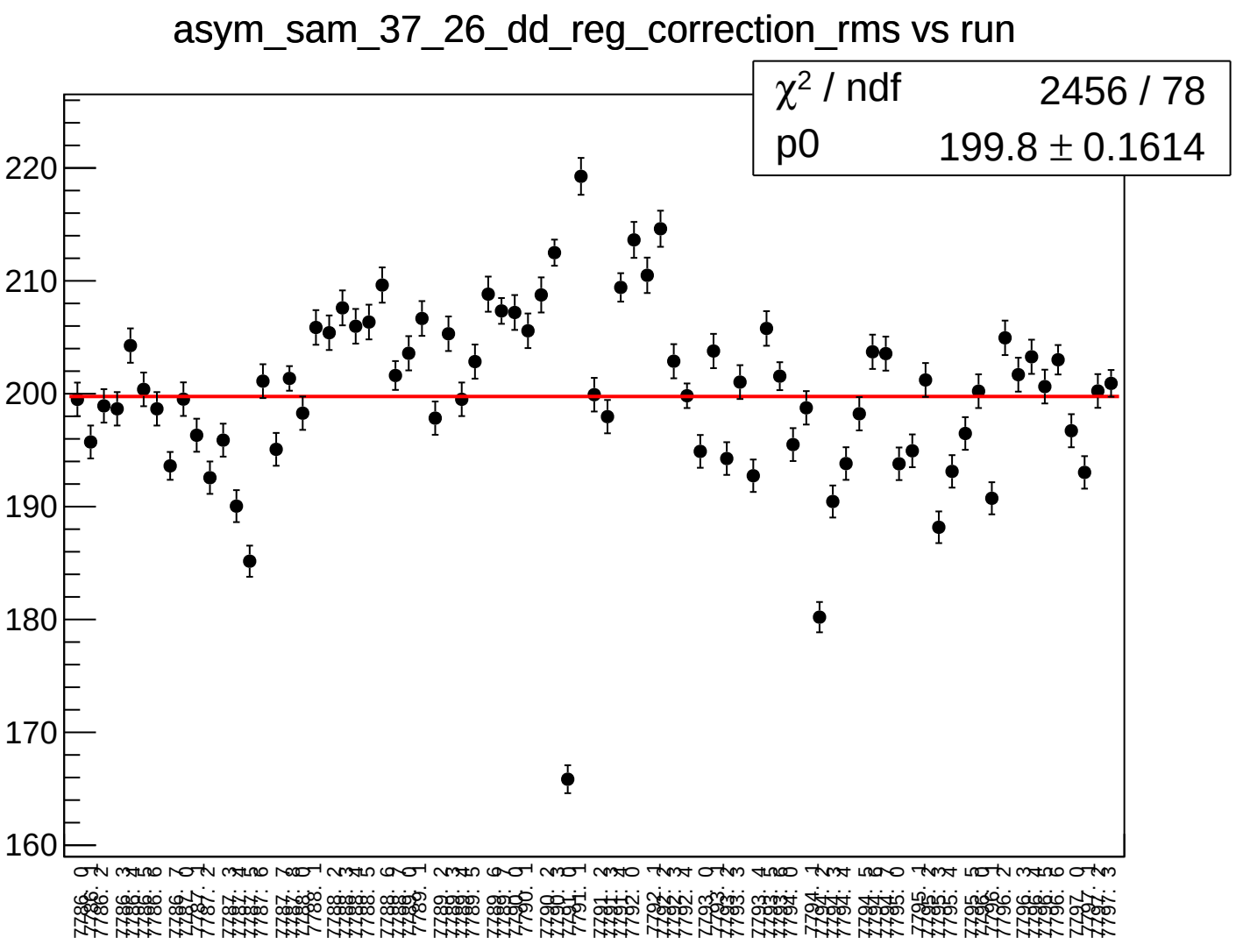

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 73.86 / 78
p0 −37.67 ± 59.11
pull
Entries 79
Mean 179.1
Std Dev 0

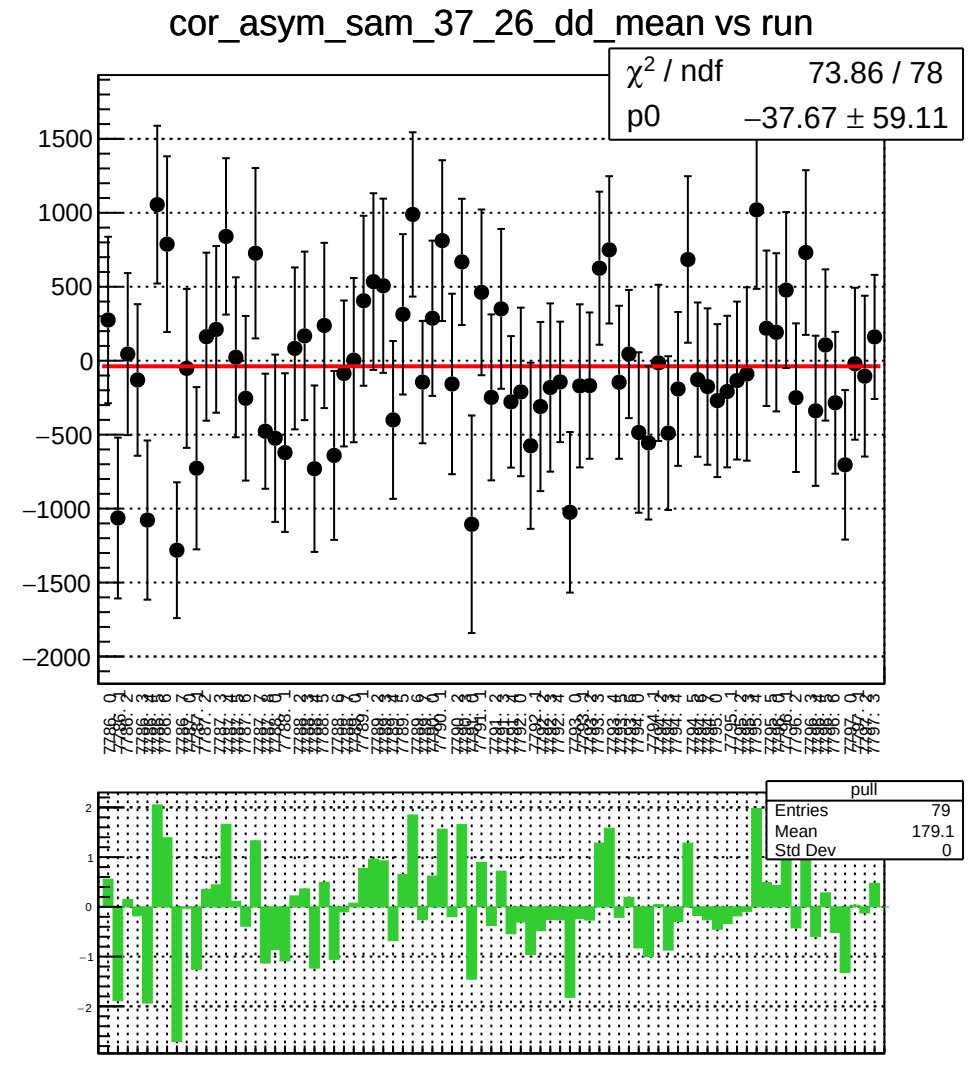

pull1D
Entries 79
Mean 0.008211
Std Dev 0.9669

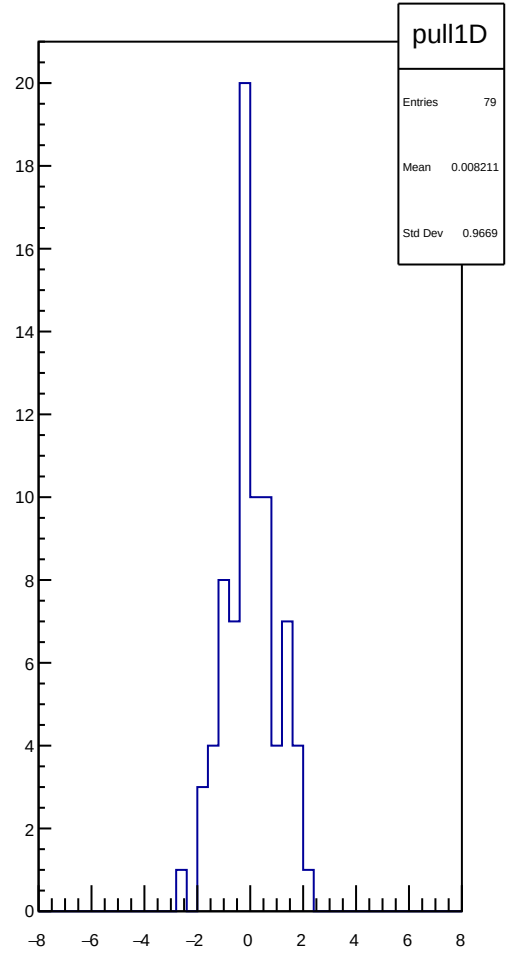

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 4182 / 78
p0 51.69 ± 0.0418
70
65
60
55
50
45

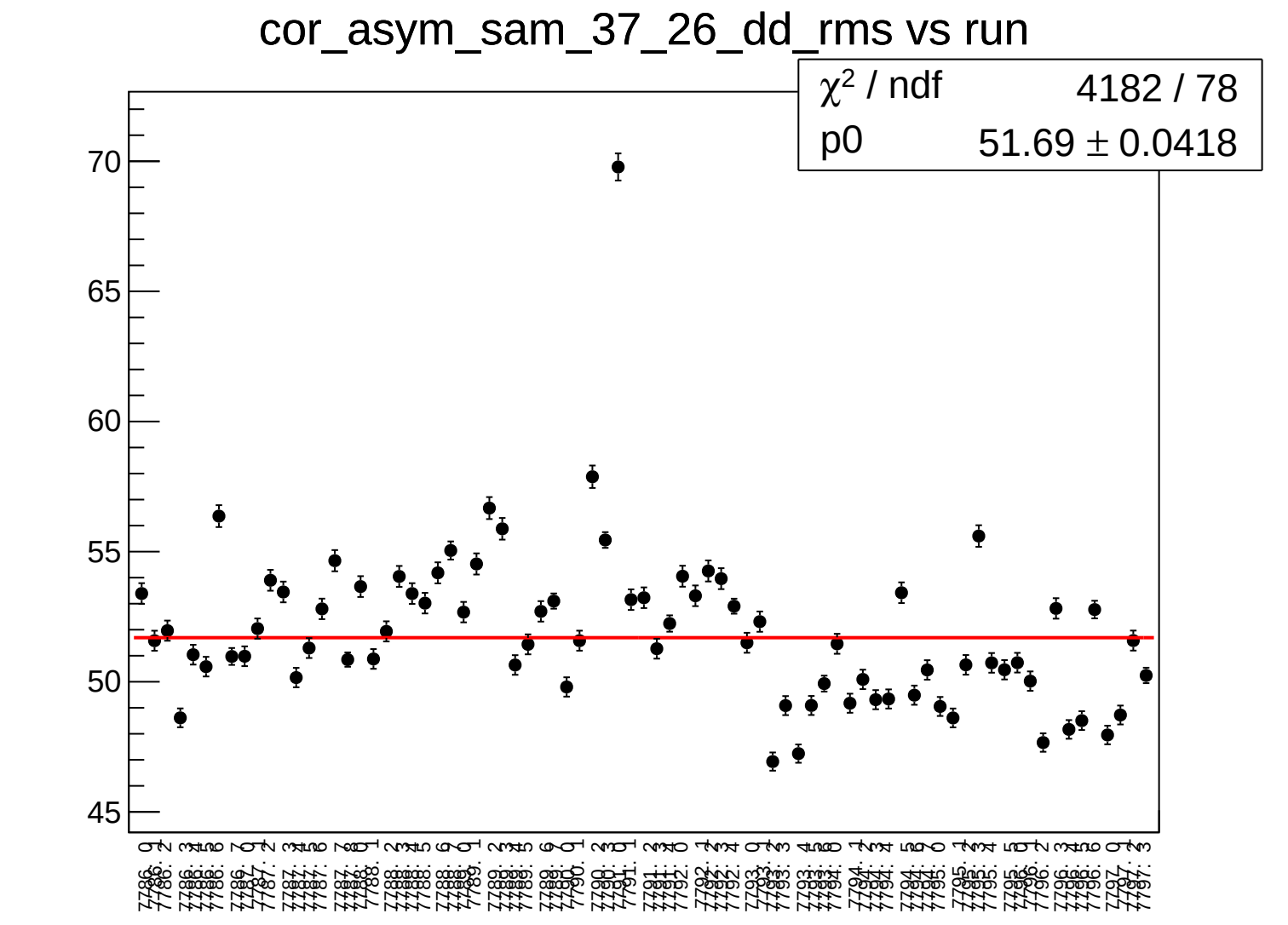

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 59.89 / 78
p0 −339.6 ± 228.3
pull
Entries 79
Mean −4.764
Std Dev 98.56

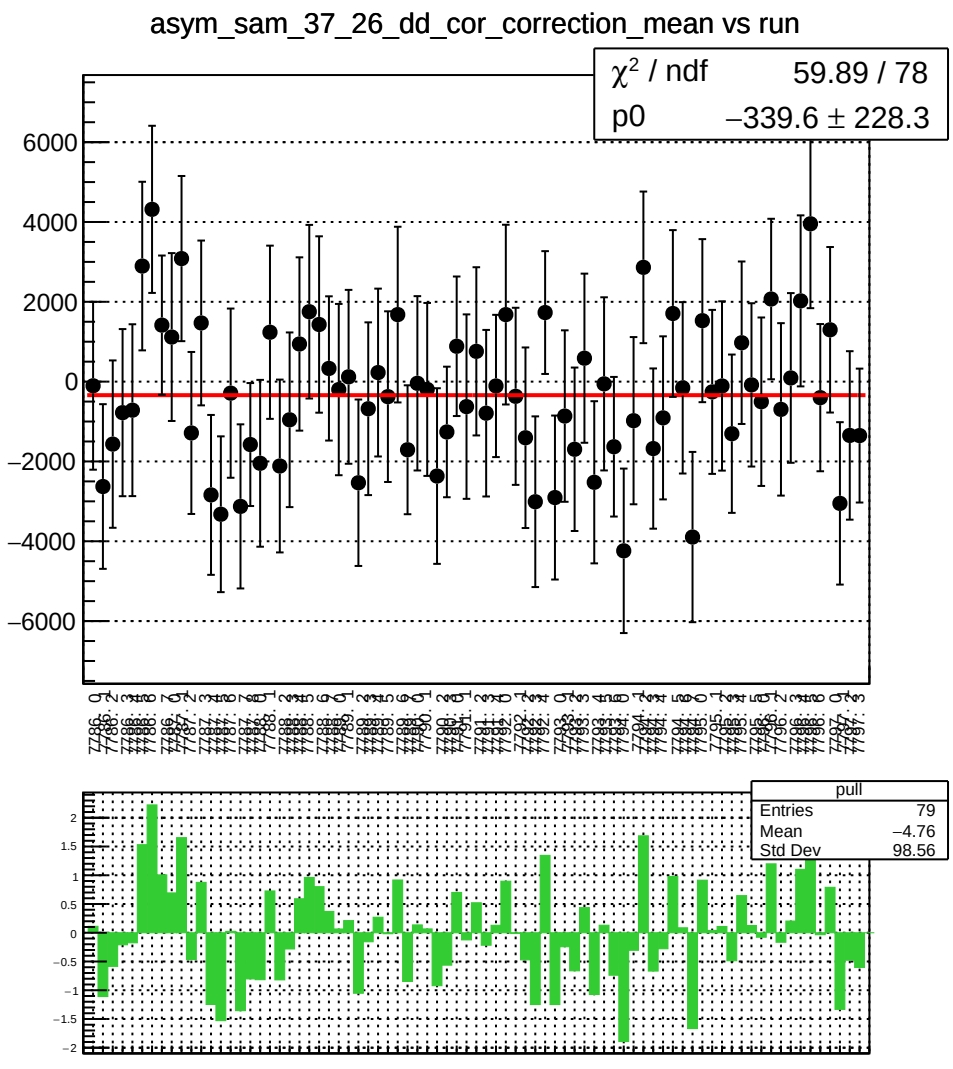

pull1D
Entries 79
Mean 0.004208
Std Dev 0.8706

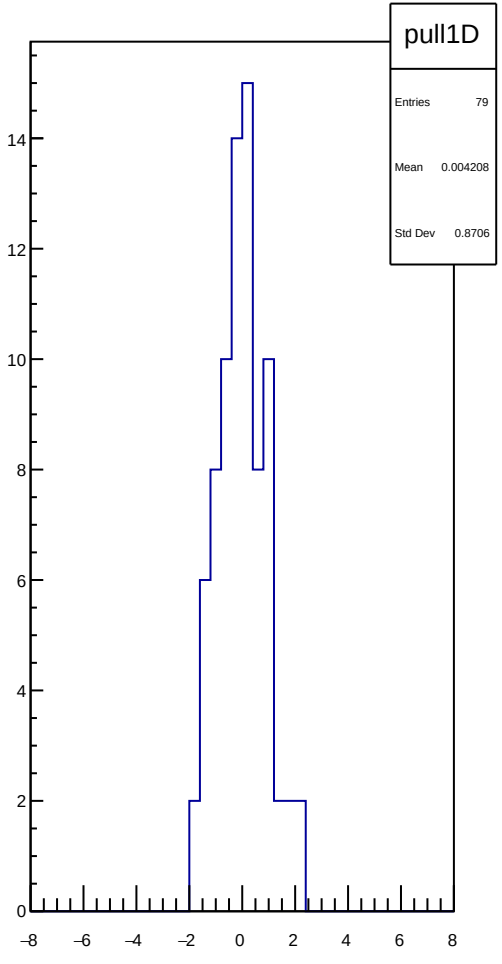

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2456 / 78
p0 199.8 ± 0.1614
220
210
200
190
180
170
160

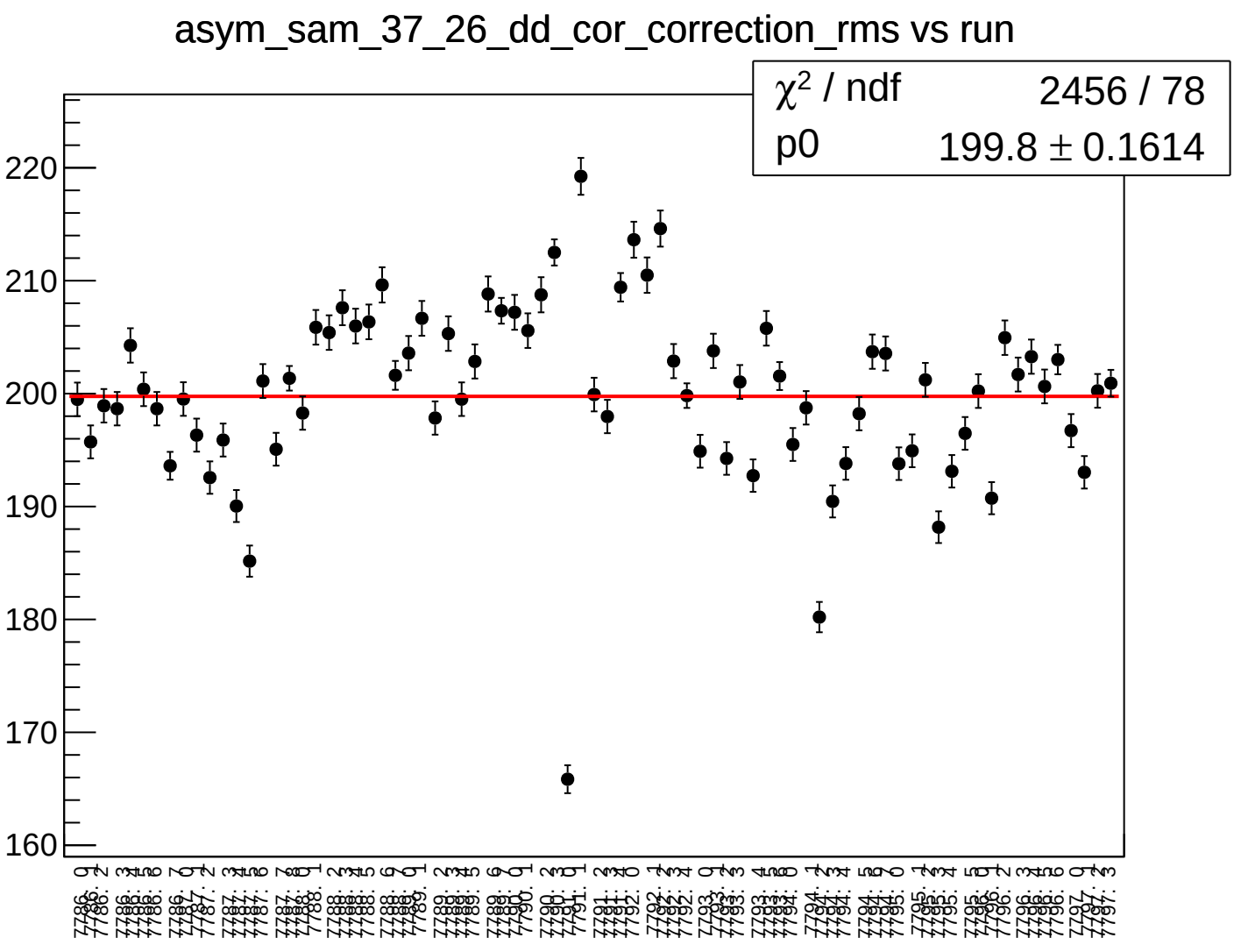

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 73.86 / 78
p0 −37.67 ± 59.11
pull
Entries 79
Mean 179.1
Std Dev 0

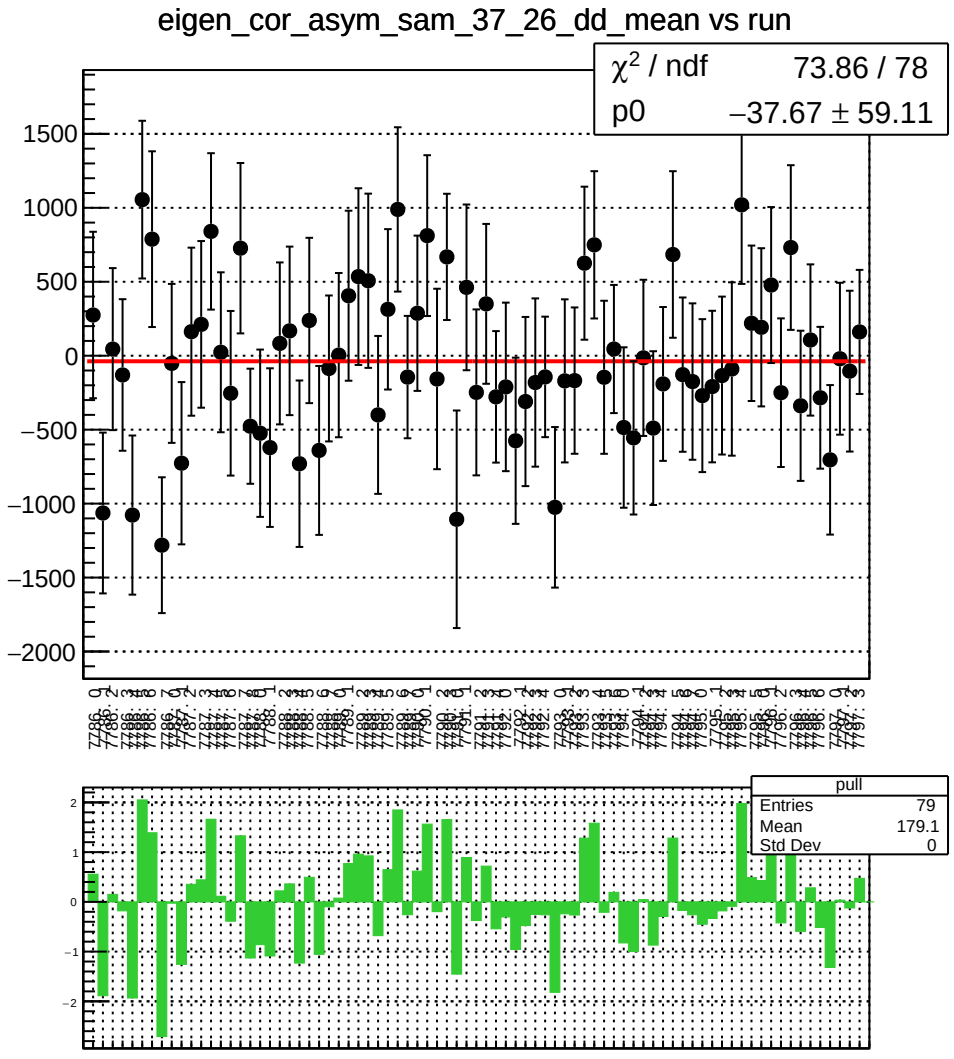

pull1D
Entries 79
Mean 0.008211
Std Dev 0.9669

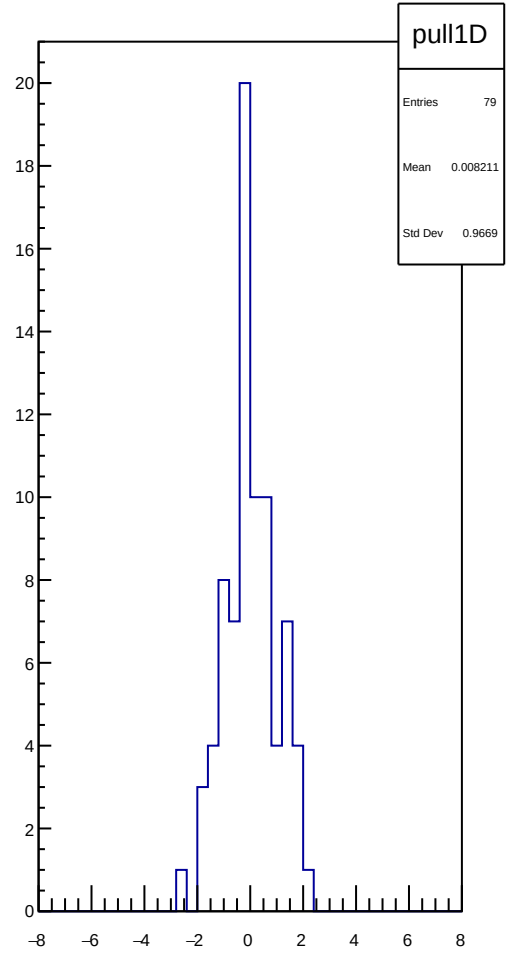

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 4182 / 78
p0 51.69 ± 0.0418
70
65
60
55
50
45

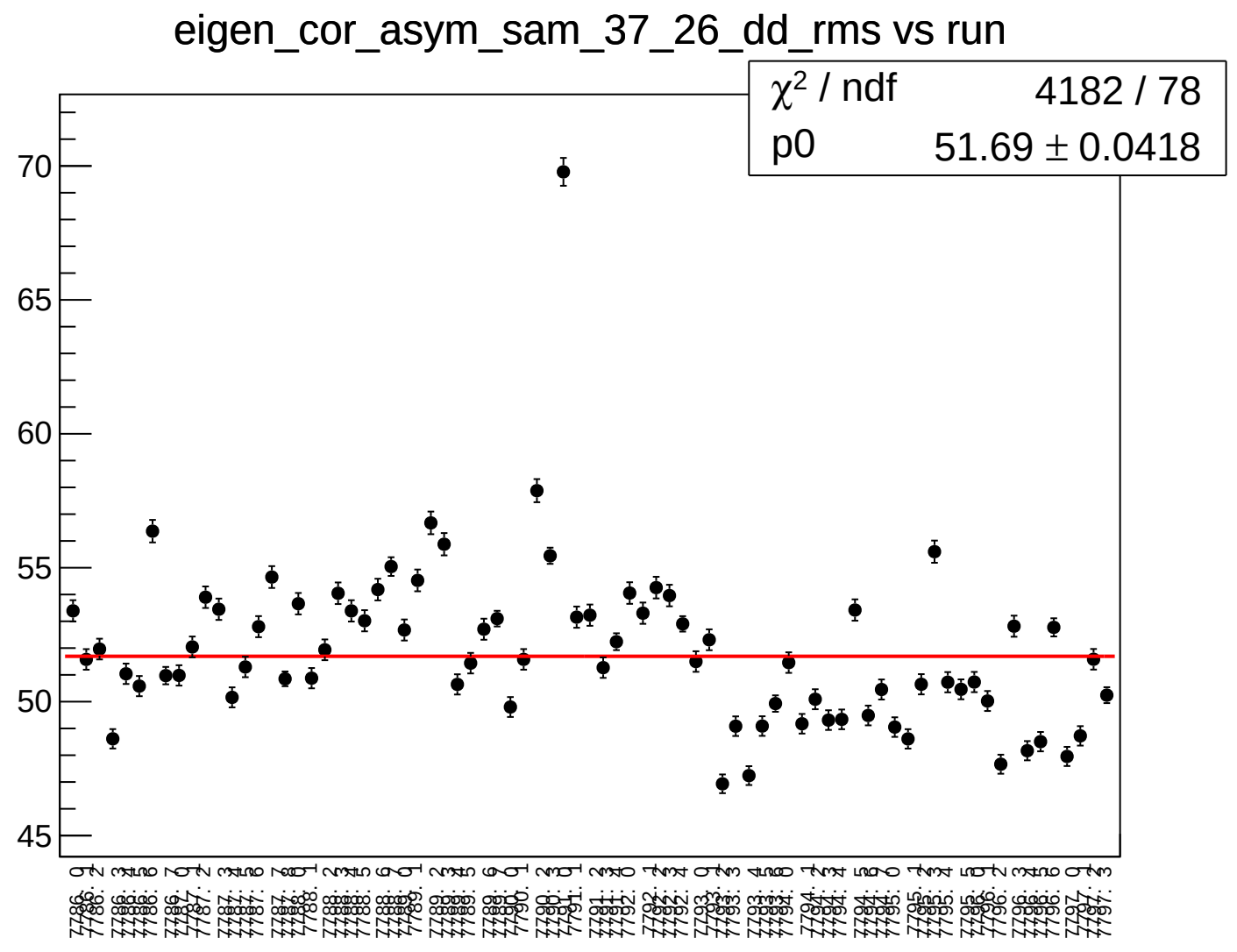

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 59.89 / 78
p0 −339.6 ± 228.3
pull
Entries 79
Mean −4.76
Std Dev 98.56

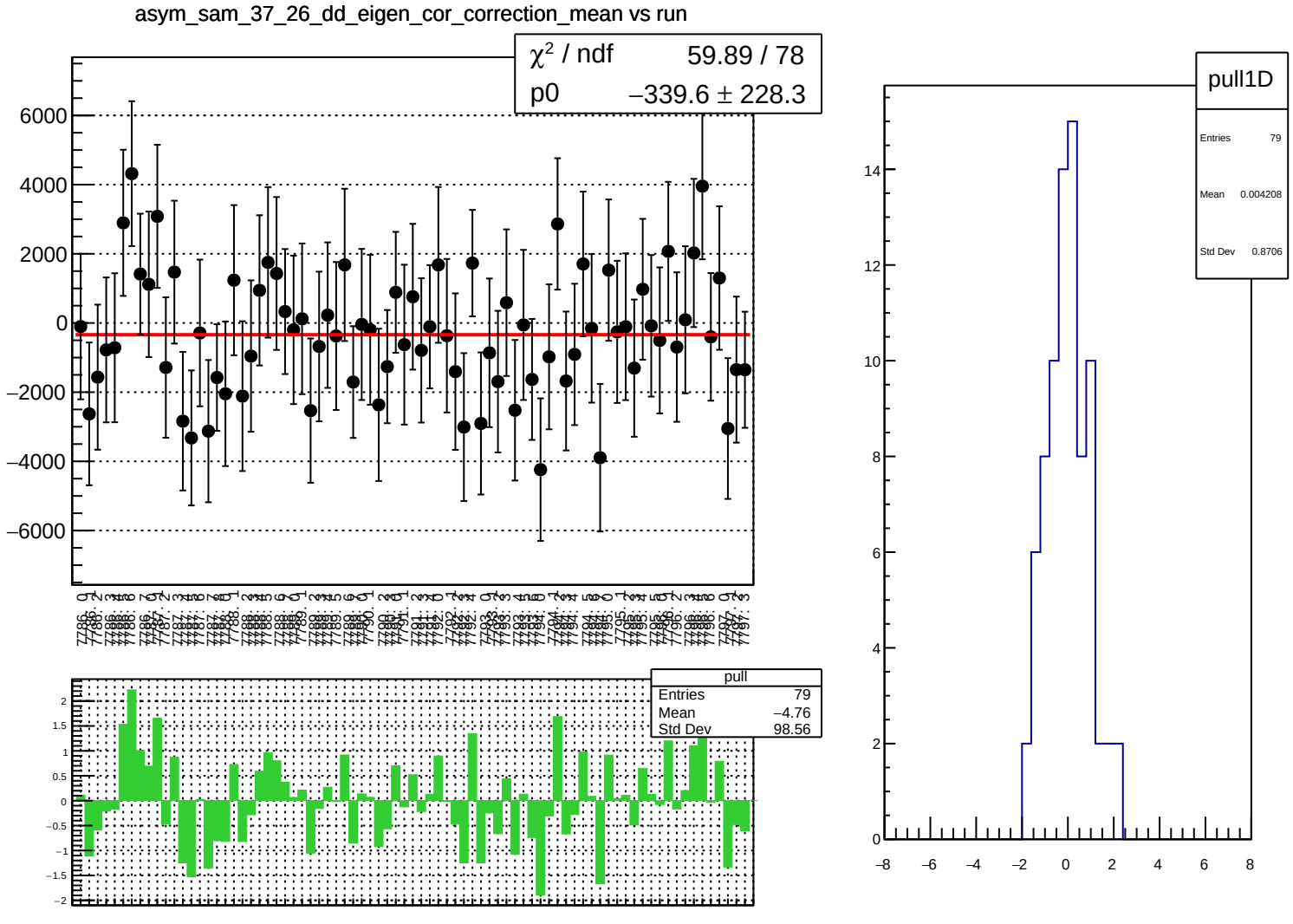

pull1D
Entries 79
Mean 0.004208
Std Dev 0.8706

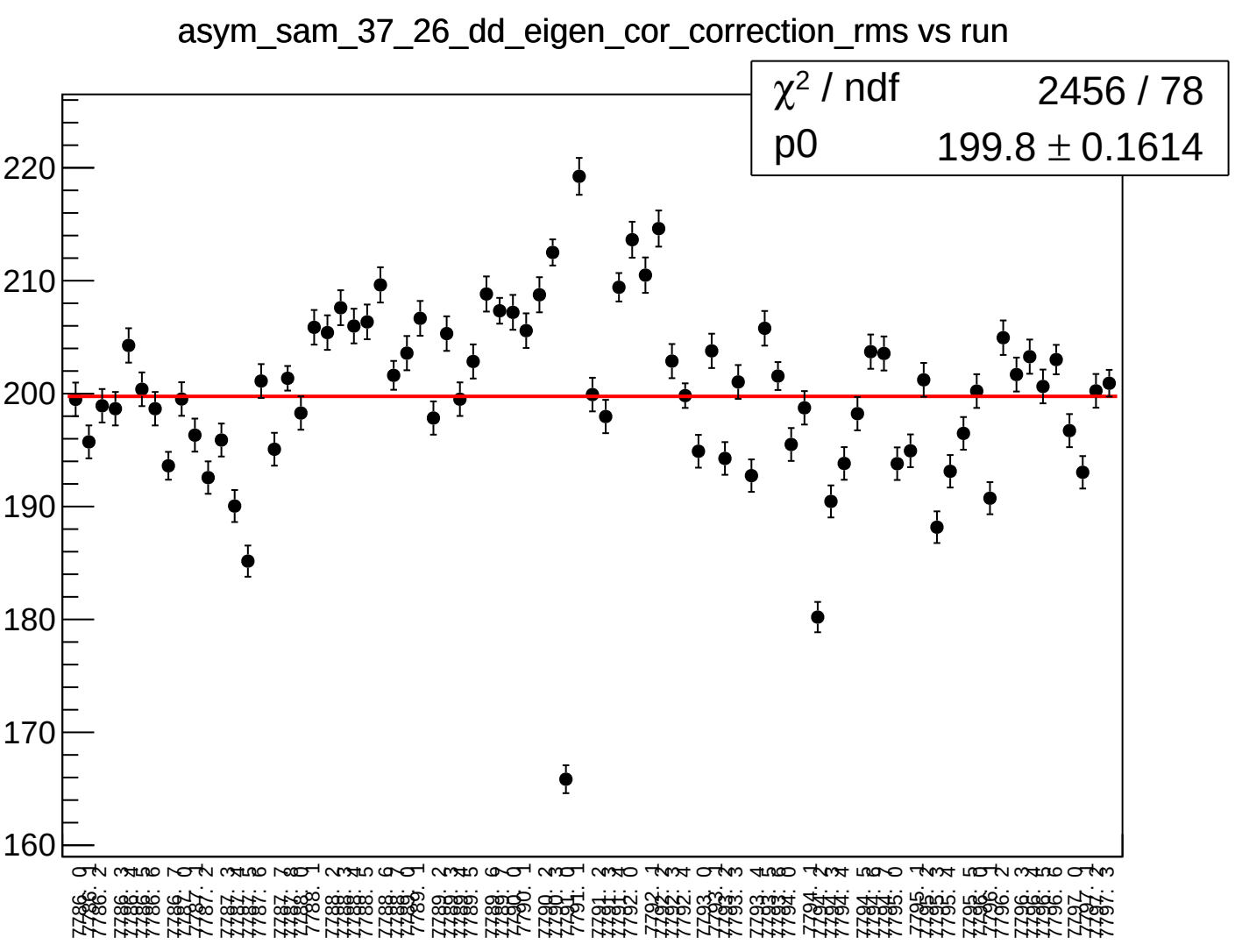

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 2456 / 78
p0 199.8 ± 0.1614
220
210
200
190
180
170
160

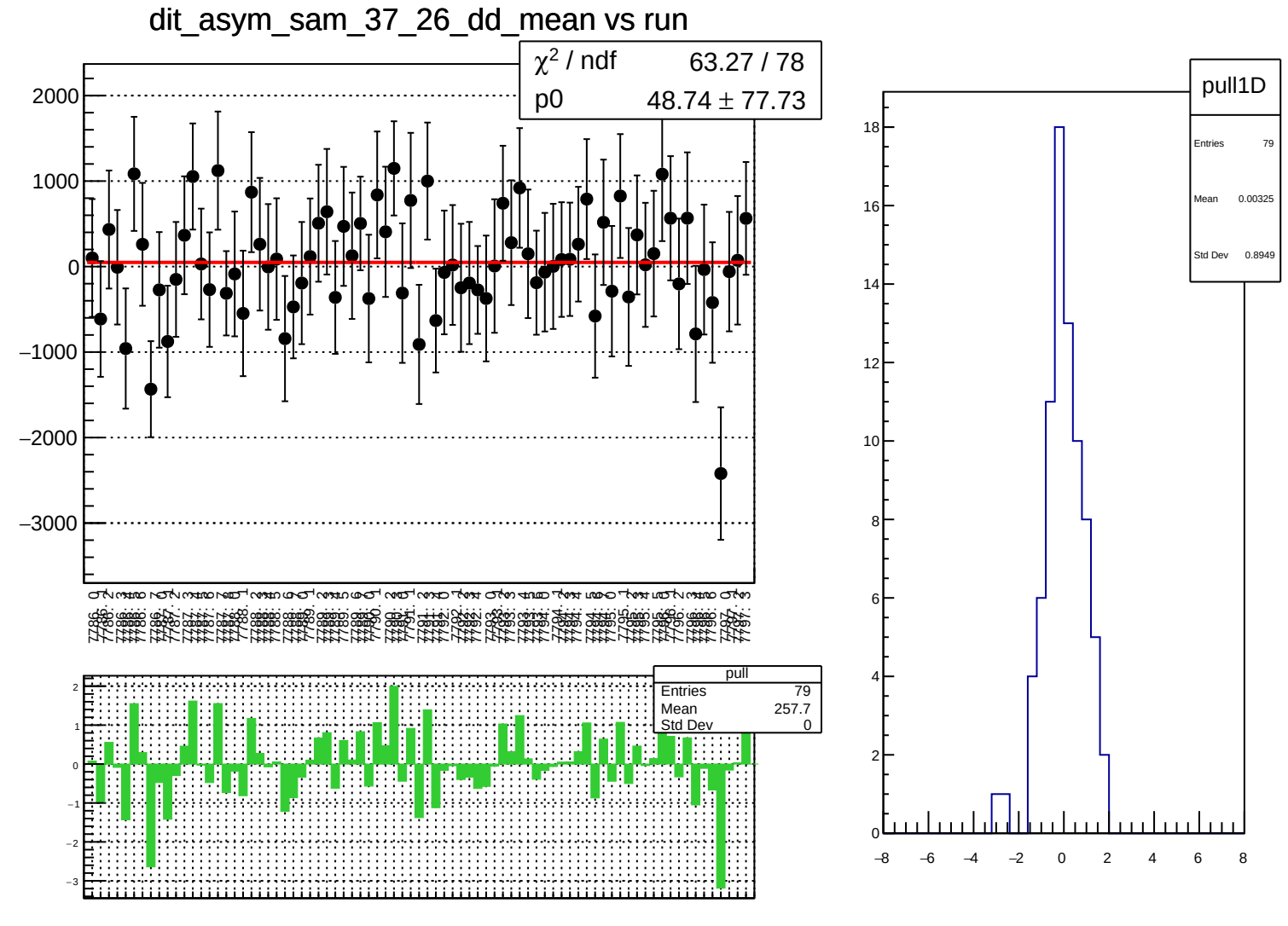

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 73.86 / 78
p0 −37.67 ± 59.11
pull
Entries 79
Mean 179.1
Std Dev 0

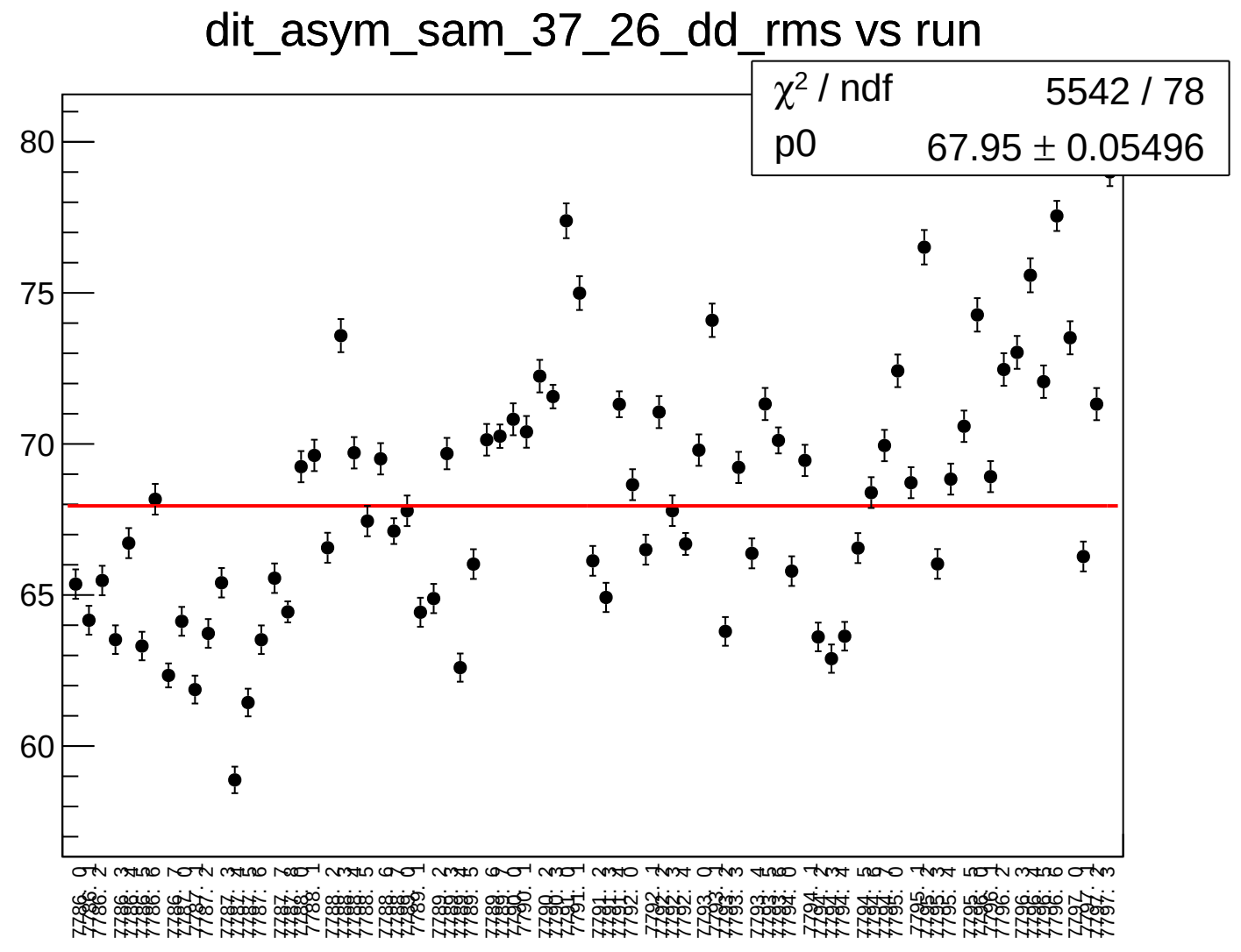

pull1D
Entries 79
Mean 0.008211
Std Dev 0.9669

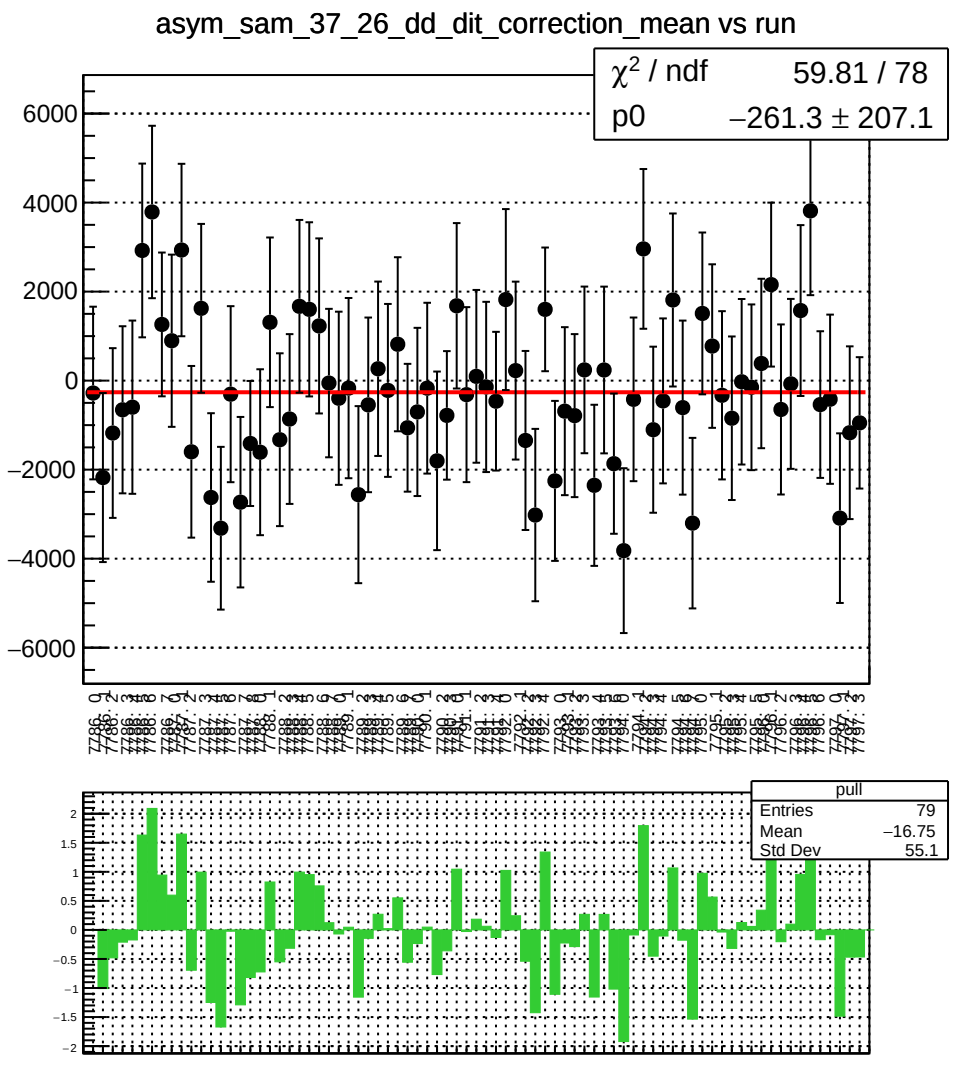

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 4182 / 78
p0 51.69 ± 0.0418
70
65
60
55
50
45

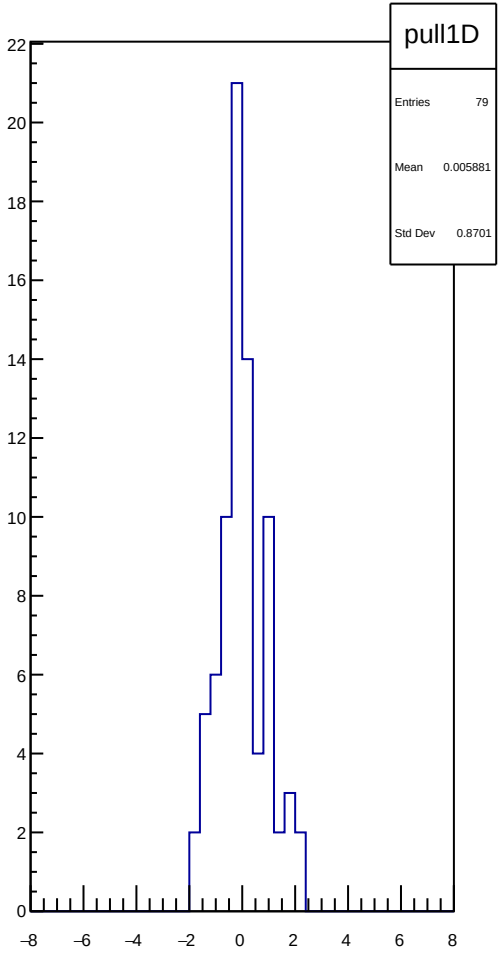

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 59.89 / 78
p0 −339.6 ± 228.3
pull
Entries 79
Mean −4.76
Std Dev 98.56
pull1D
Entries 79
Mean 0.004208
Std Dev 0.8706

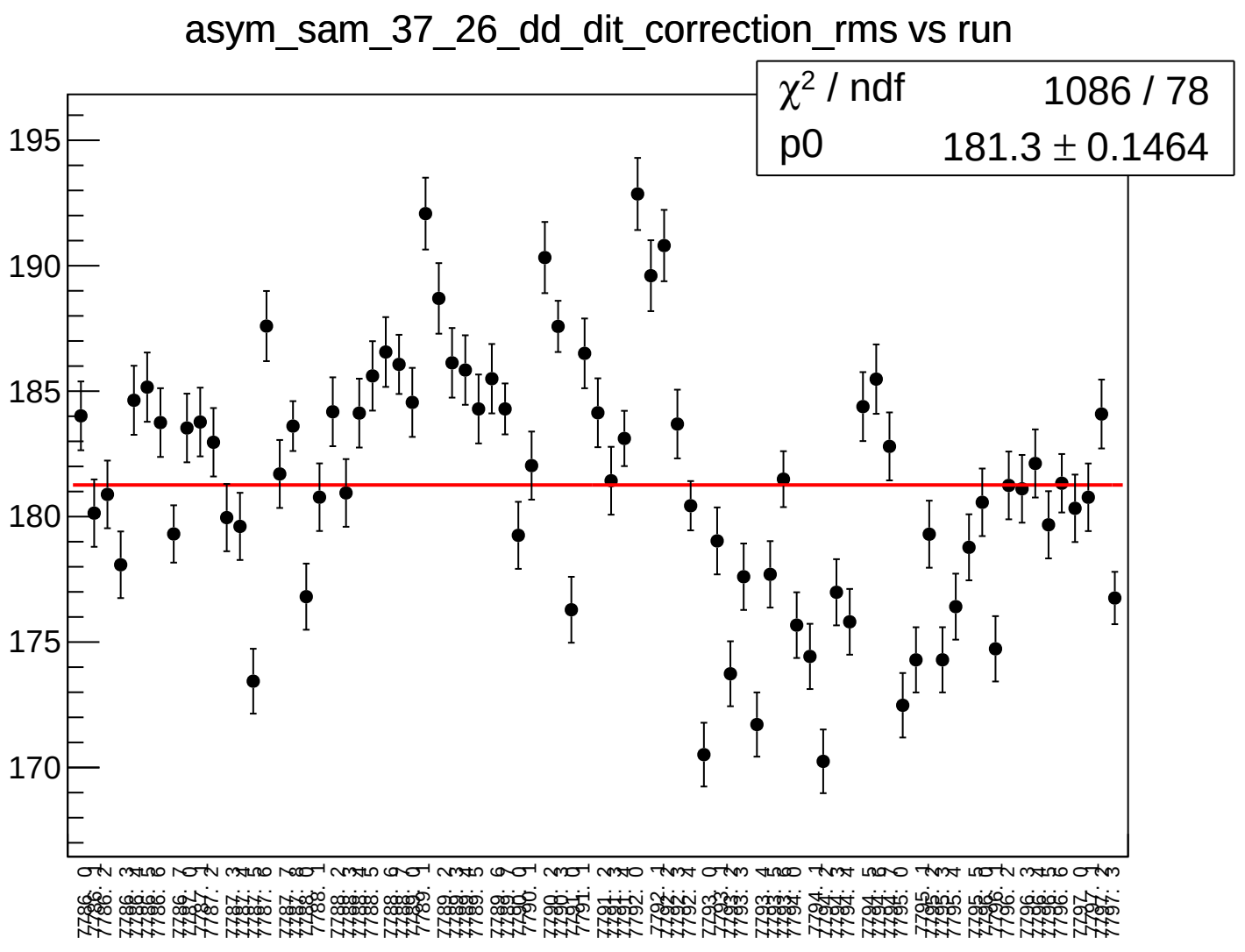

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2456 / 78
p0 199.8 ± 0.1614
220
210
200
190
180
170
160

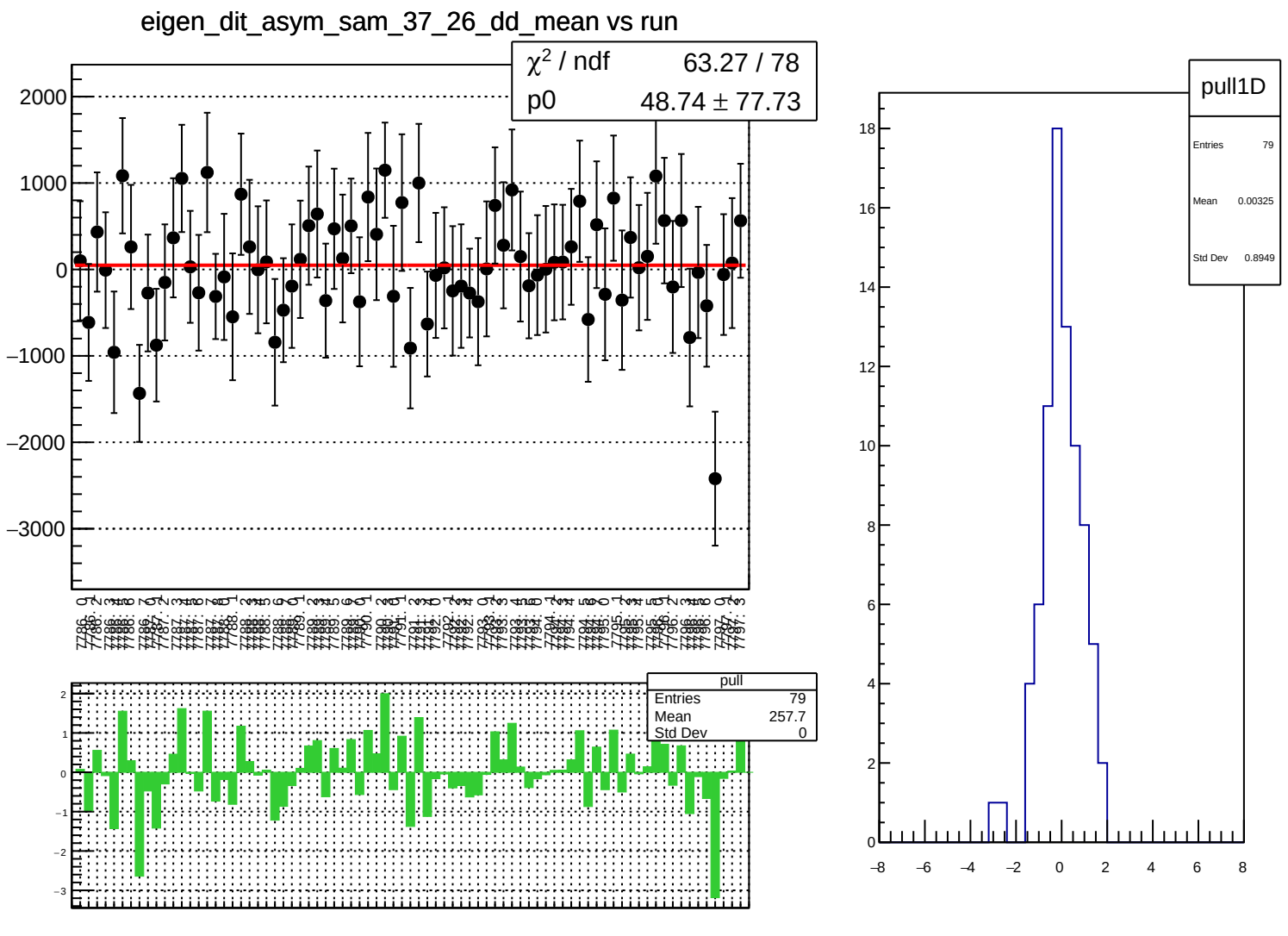

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 63.27 / 78
p0 48.74 ± 77.73
2000
1000
0
−1000
−2000
−3000
pull
Entries 79
Mean 257.7
Std Dev 0
pull1D
Entries 79
Mean 0.00325
Std Dev 0.8949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

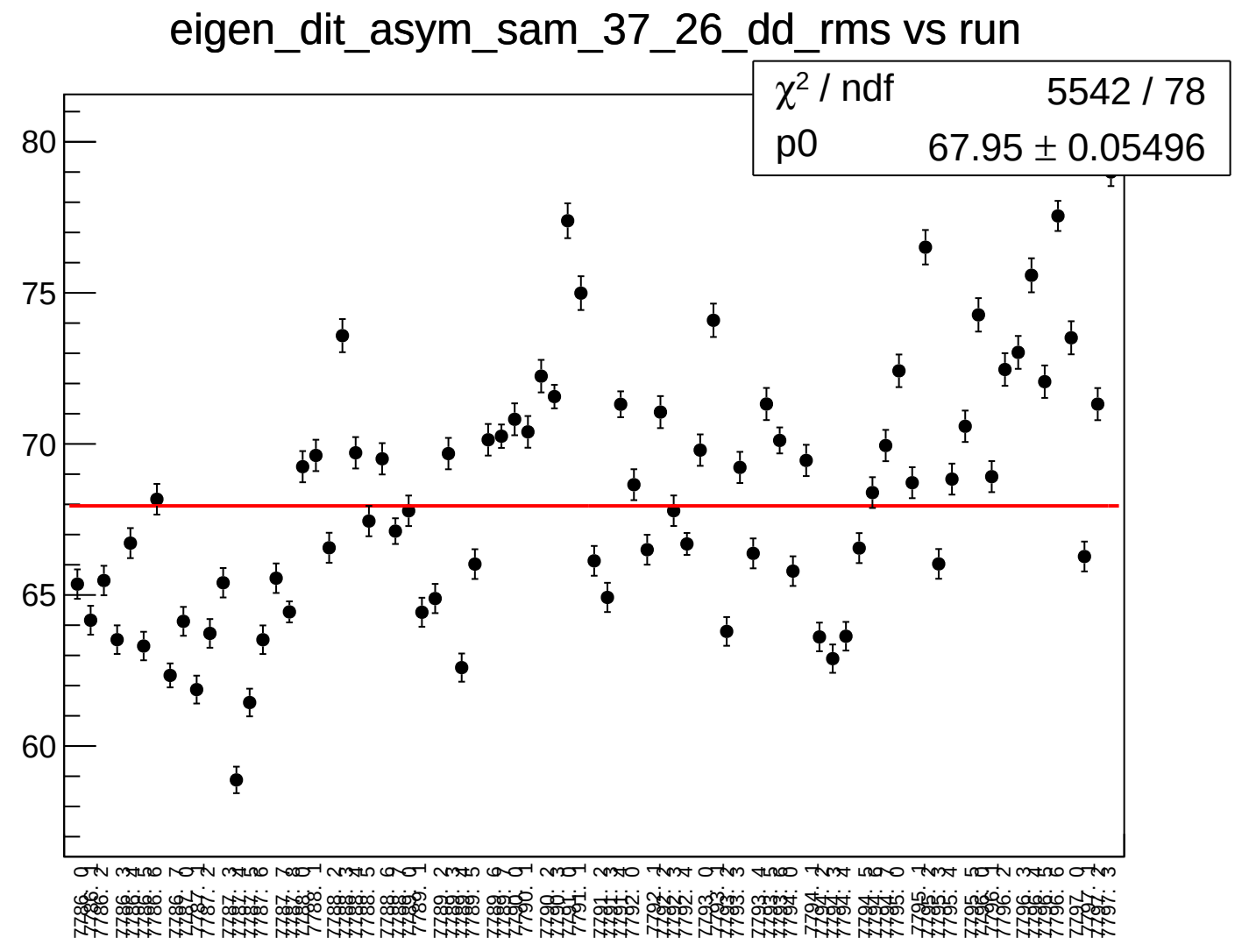

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 5542 / 78
p0 67.95 ± 0.05496
80
75
70
65
60

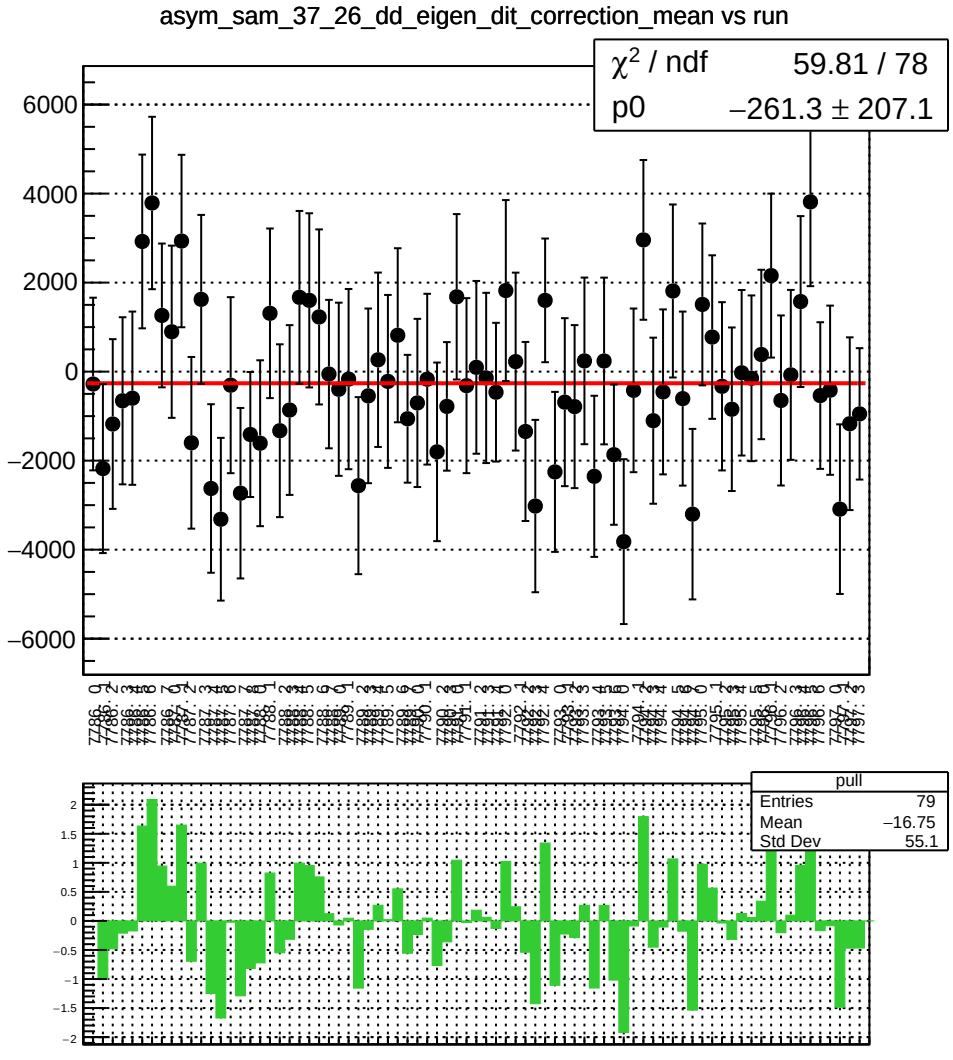

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 59.81 / 78
p0 −261.3 ± 207.1
pull
Entries 79
Mean −16.75
Std Dev 55.1

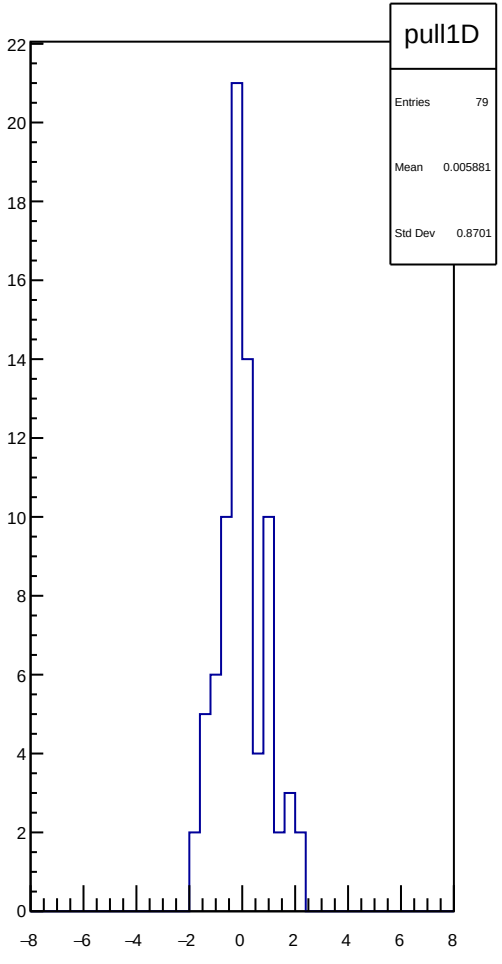

pull1D
Entries 79
Mean 0.005881
Std Dev 0.8701

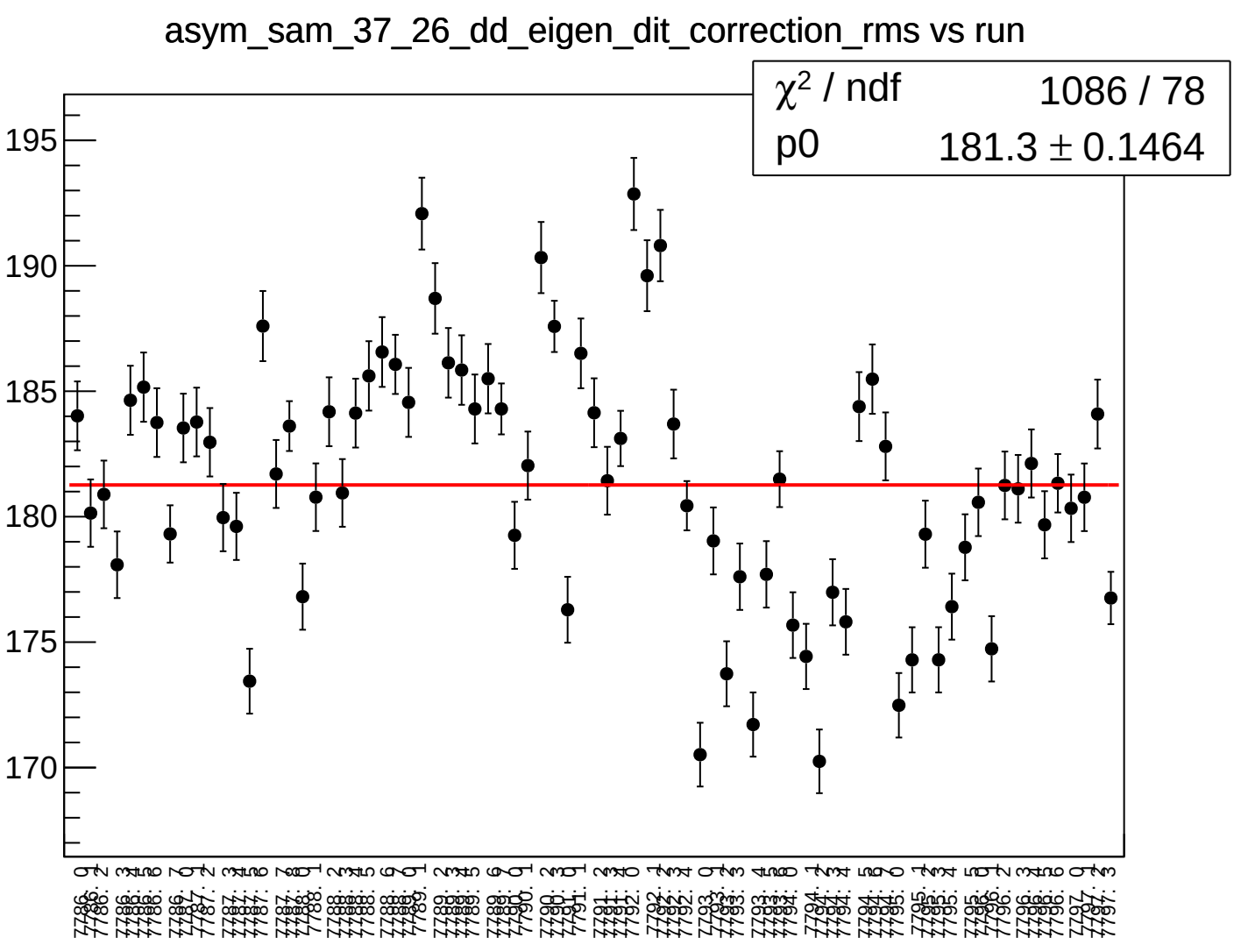

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1086 / 78
p0 181.3 ± 0.1464
195
190
185
180
175
170

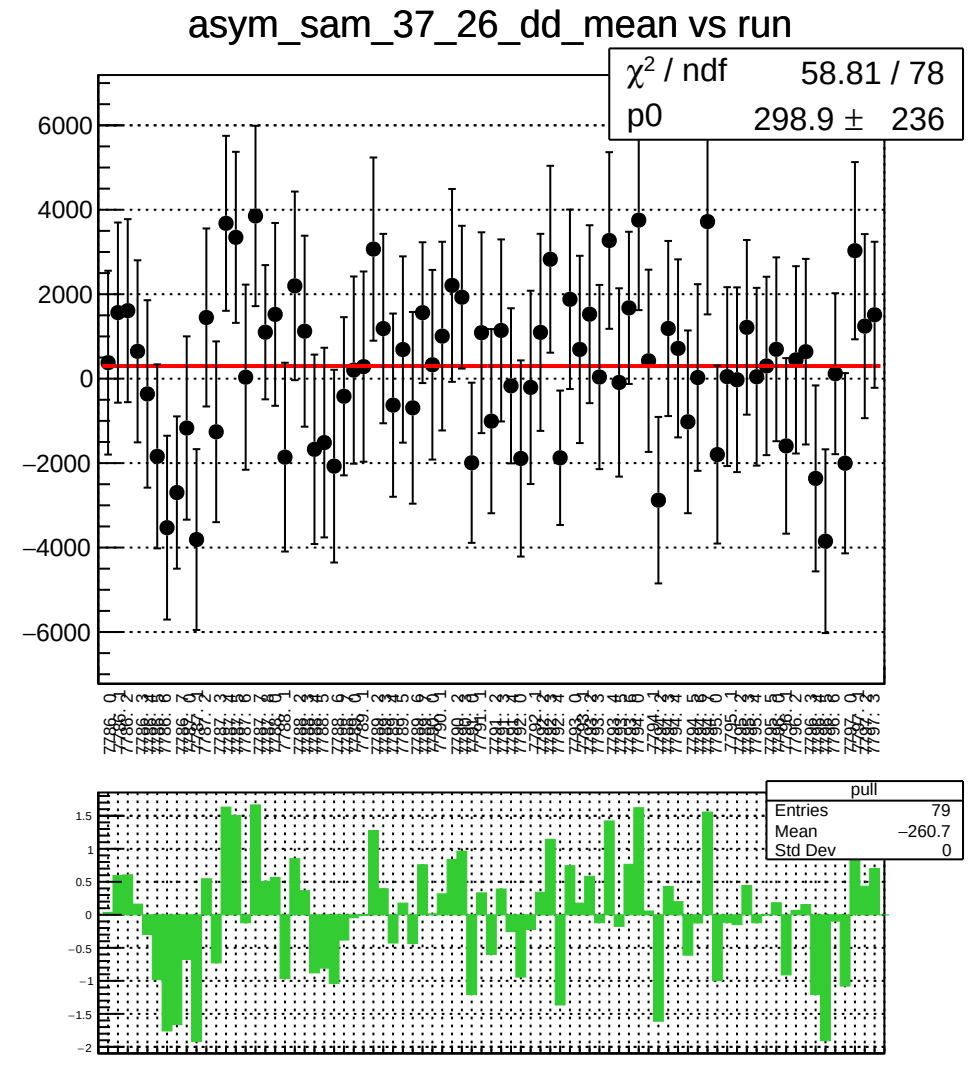

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 63.27 / 78
p0 48.74 ± 77.73
2000
1000
0
−1000
−2000
−3000
pull
Entries 79
Mean 257.7
Std Dev 0
pull1D
Entries 79
Mean 0.00325
Std Dev 0.8949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

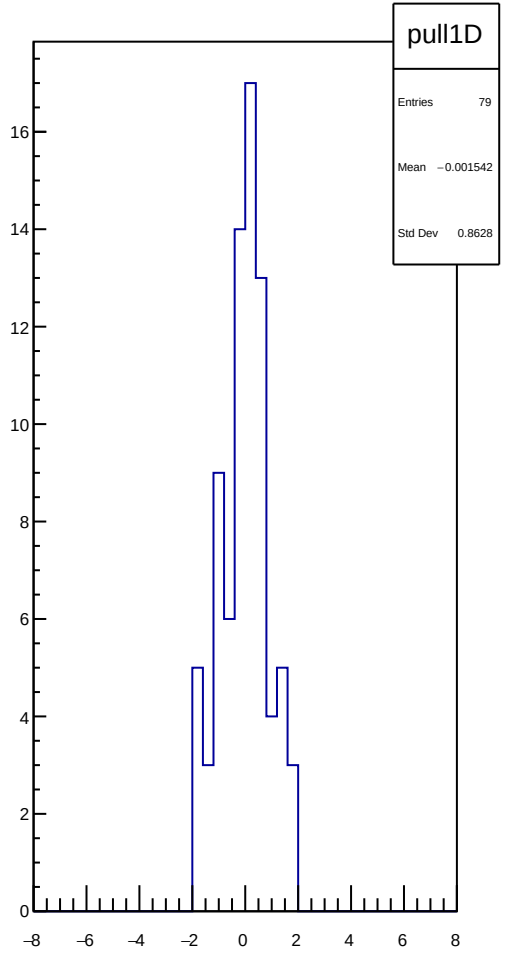

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 5542 / 78
p0 67.95 ± 0.05496
80
75
70
65
60

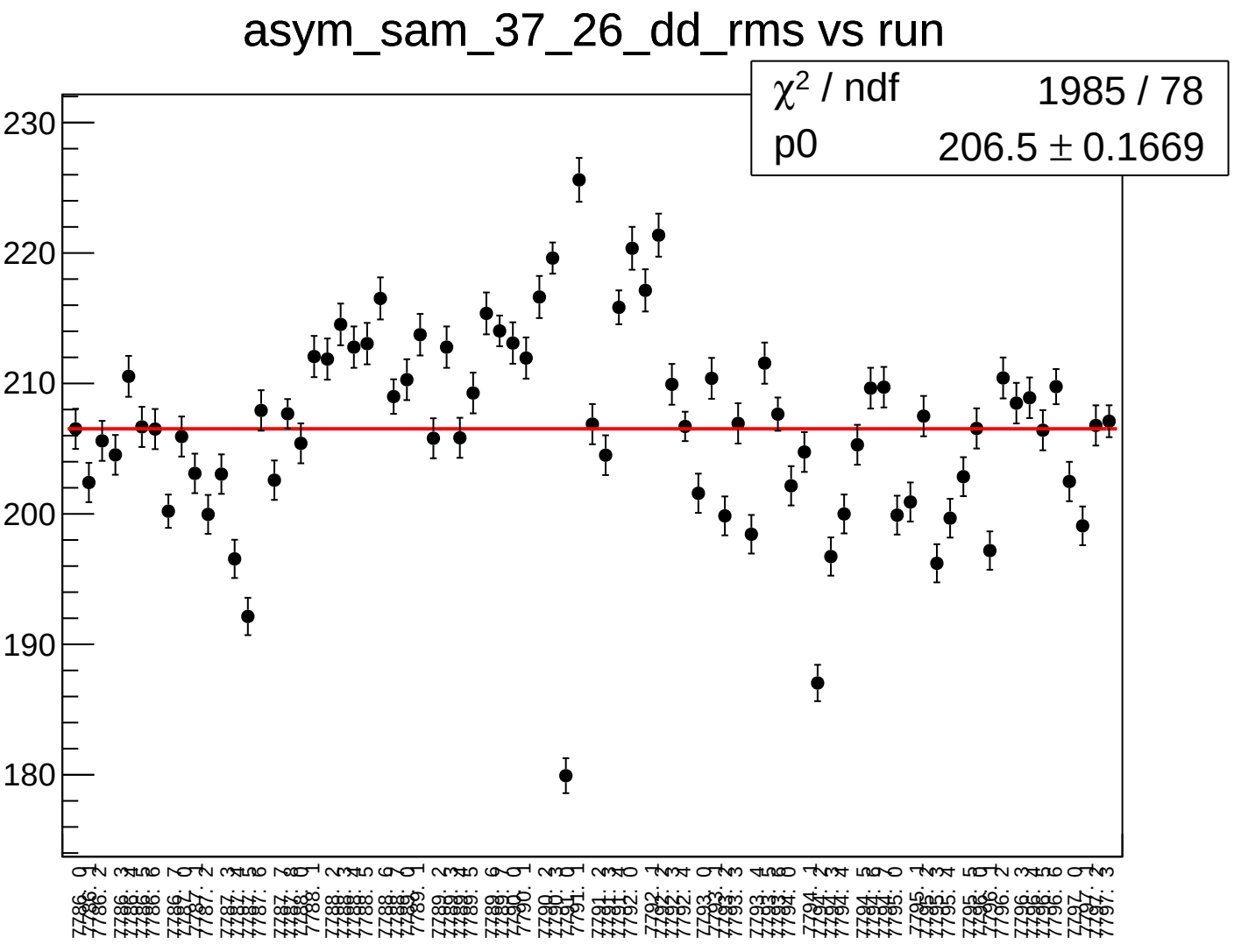

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 59.81 / 78
p0 −261.3 ± 207.1
pull
Entries 79
Mean −16.75
Std Dev 55.1

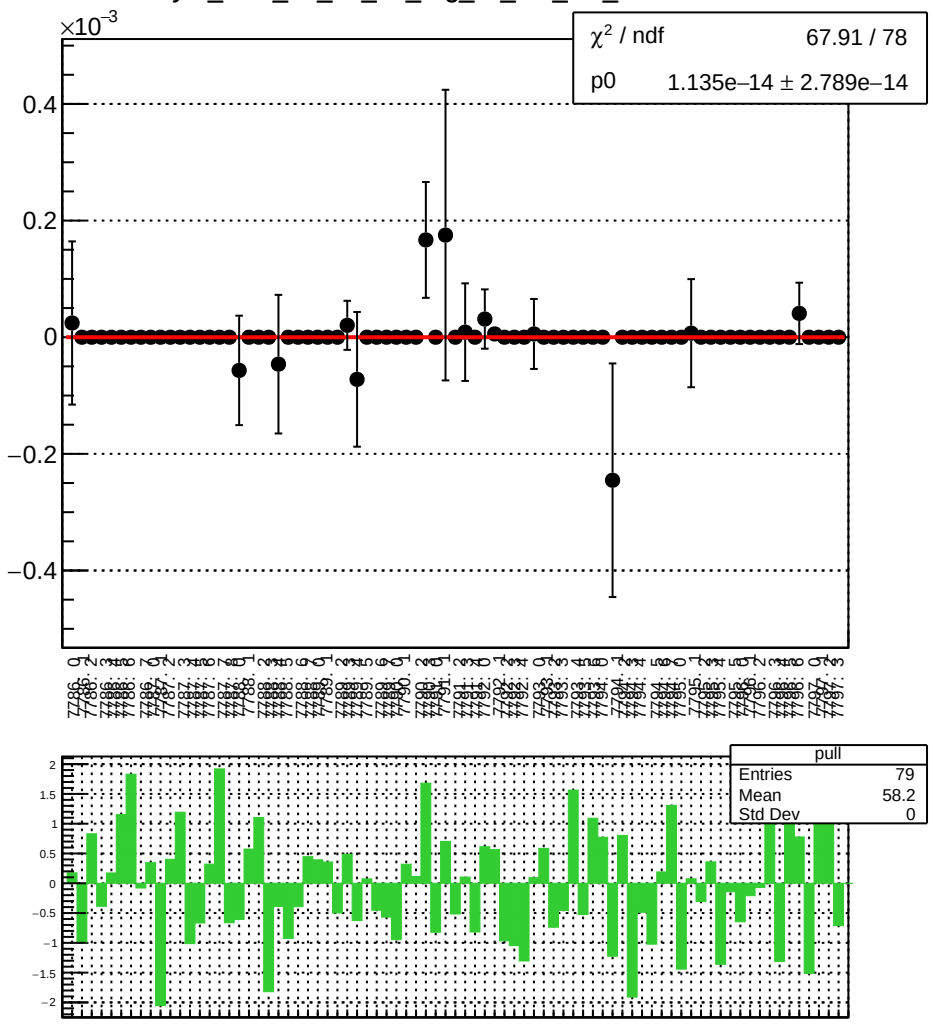

pull1D
Entries 79
Mean 0.005881
Std Dev 0.8701

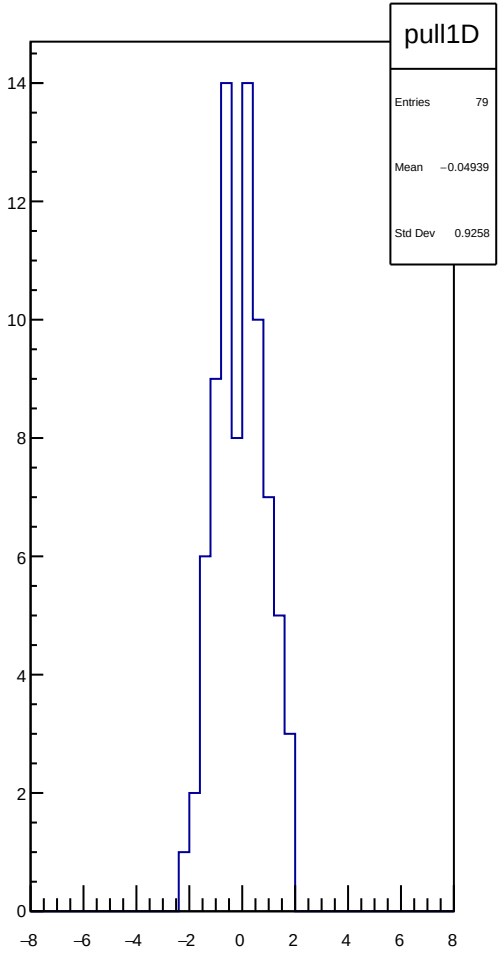

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1086 / 78
p0 181.3 ± 0.1464
195
190
185
180
175
170

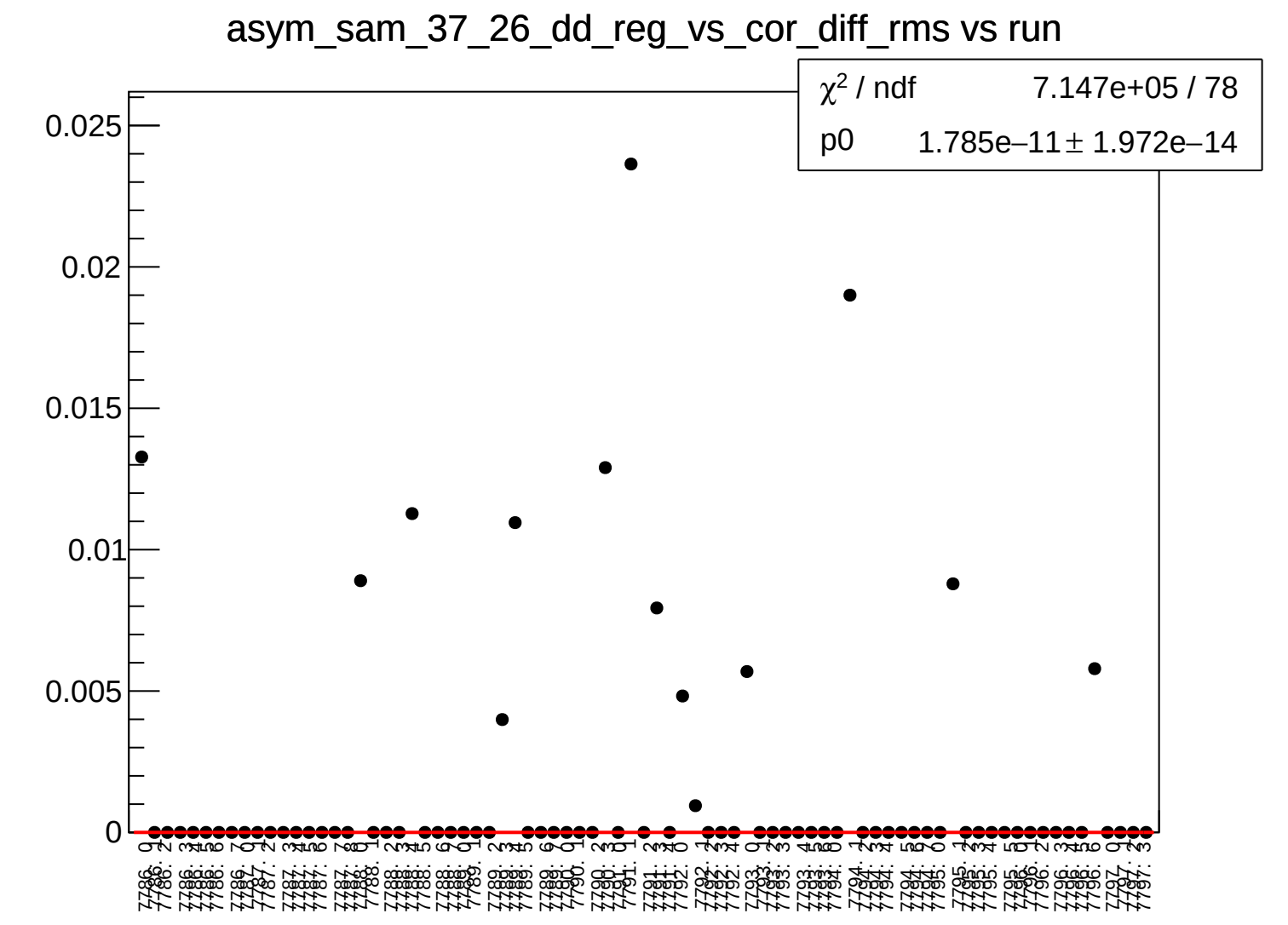

asym_sam_37_26_dd_mean vs run
χ² / ndf 58.81 / 78
p0 298.9 ± 236
pull
Entries 79
Mean −260.7
Std Dev 0

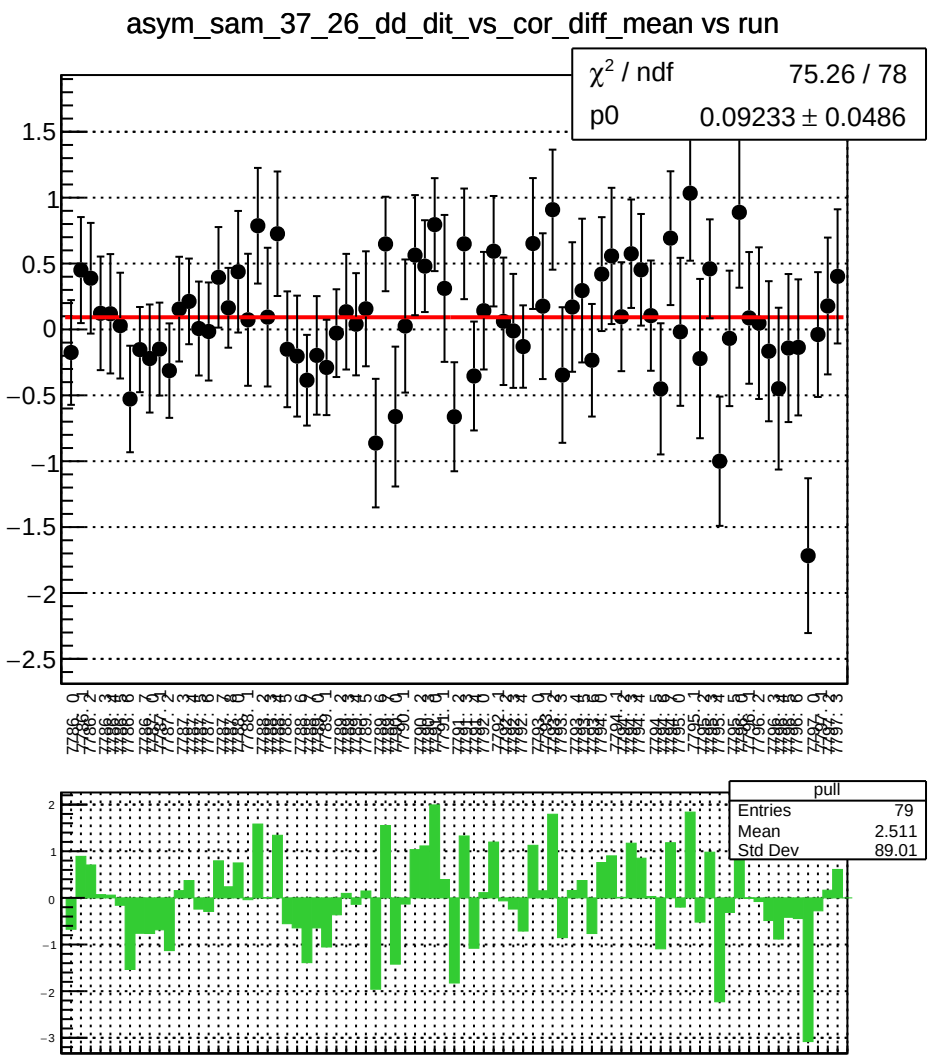

pull1D
Entries 79
Mean −0.001542
Std Dev 0.8628

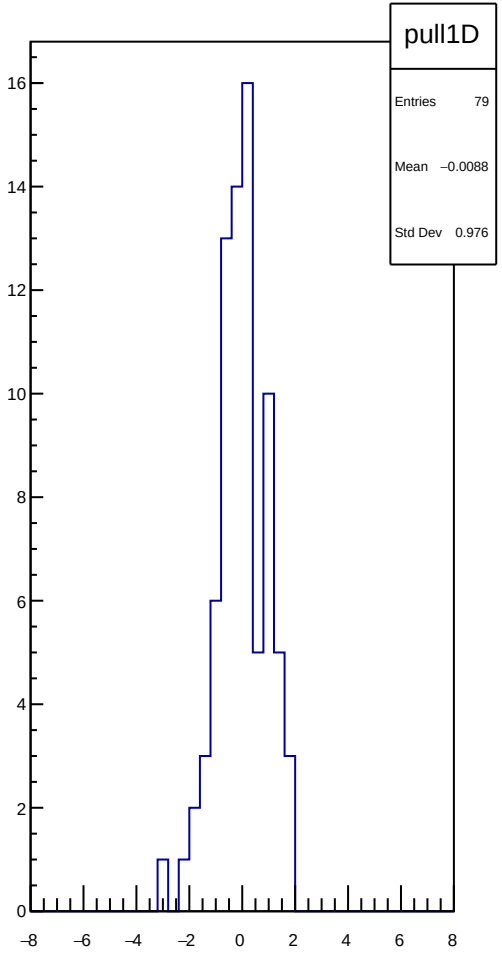

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1985 / 78
p0 206.5 ± 0.1669
230
220
210
200
190
180

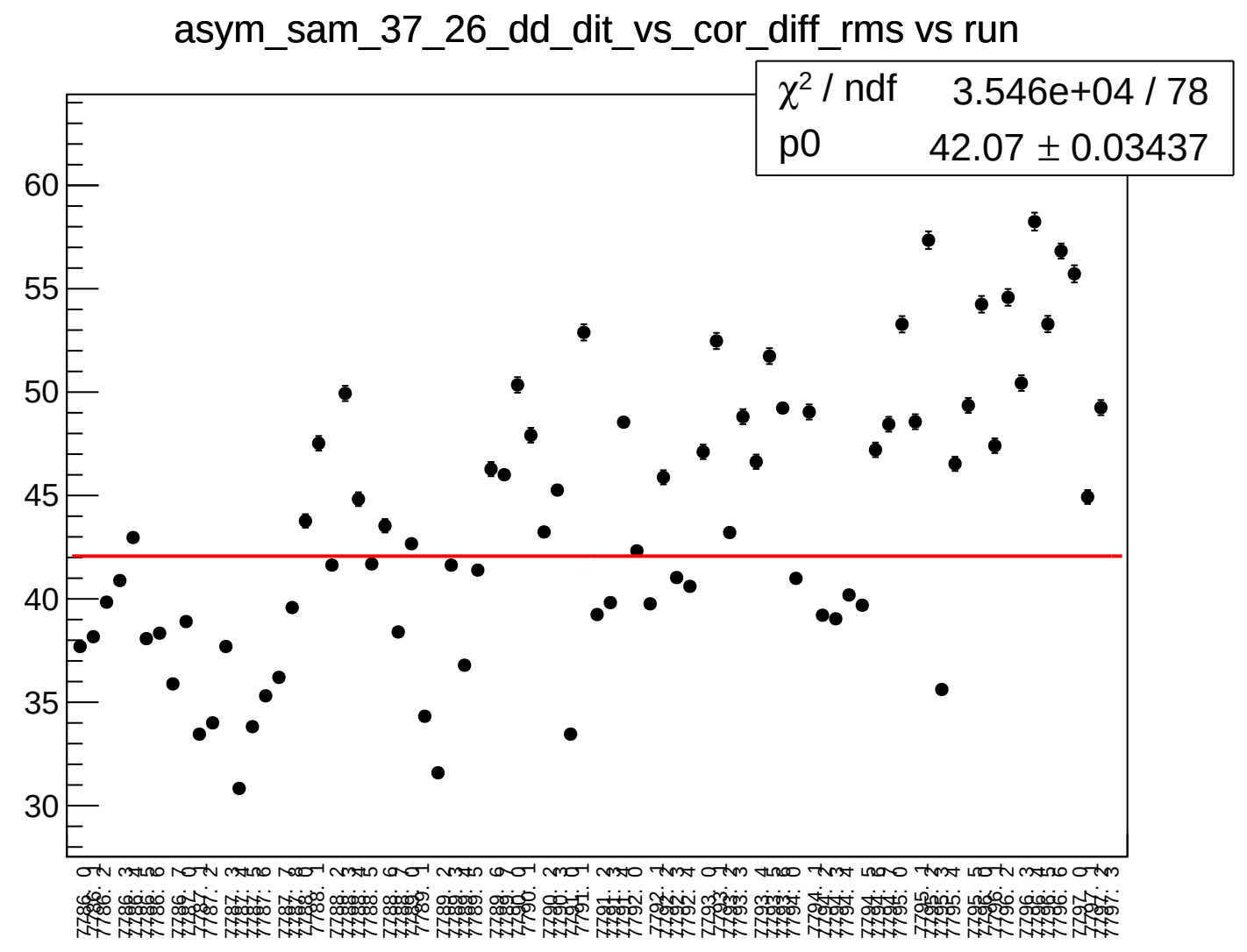

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 67.91 / 78
p0 1.135e−14 ± 2.789e−14
pull
Entries 79
Mean 58.2
Std Dev 0

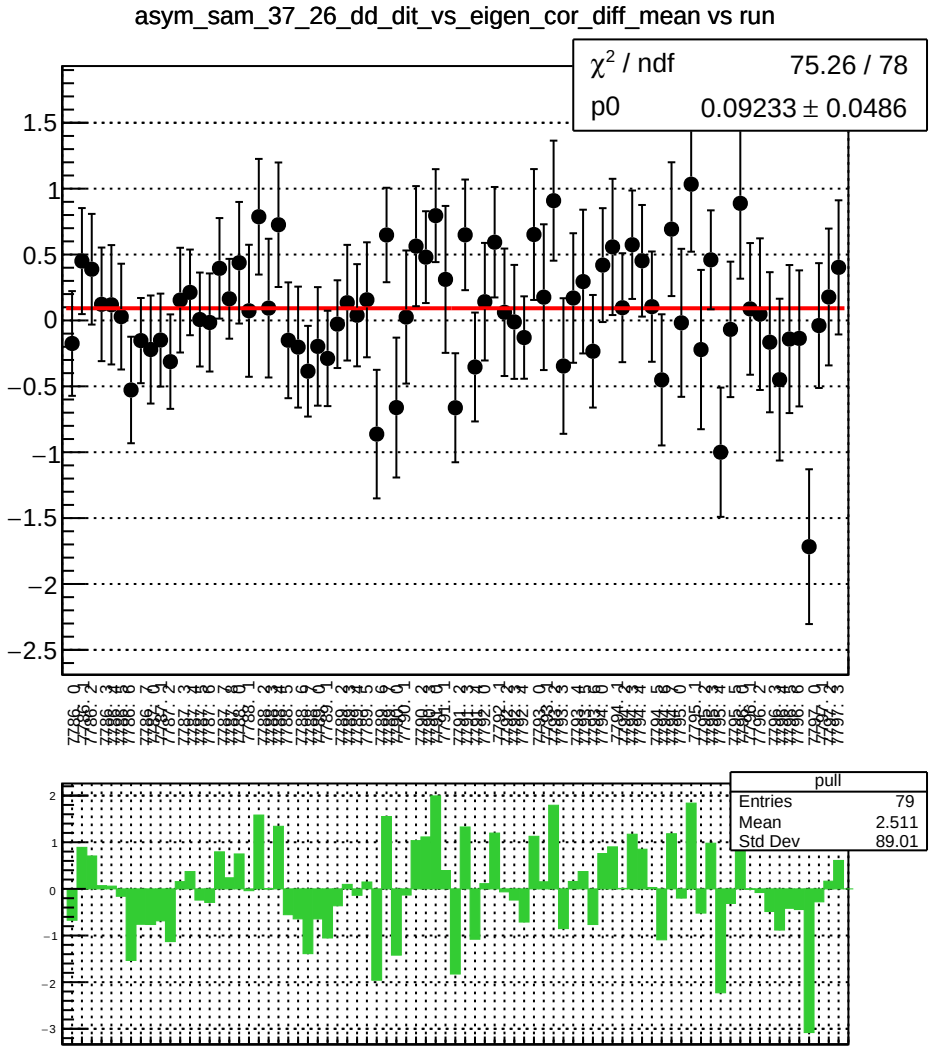

pull1D
Entries 79
Mean −0.04939
Std Dev 0.9258

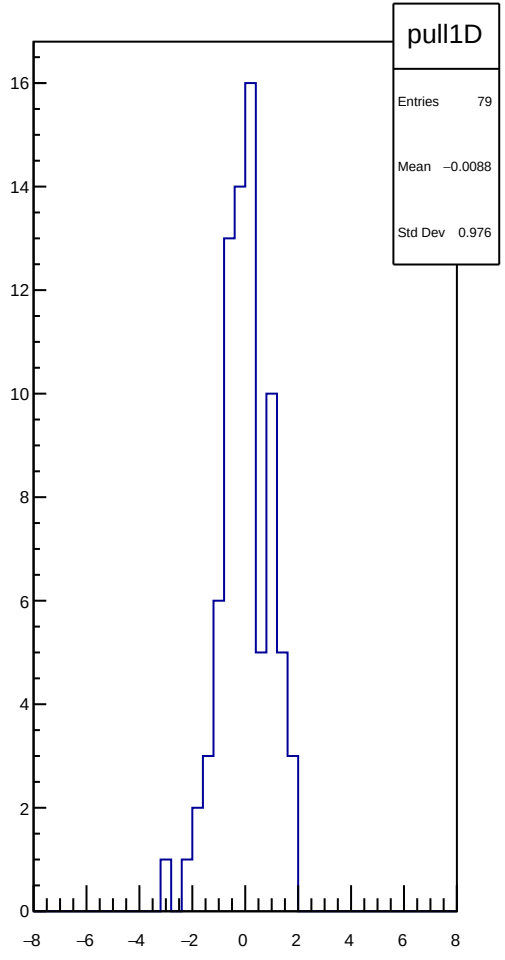

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.147e+05 / 78
p0 1.785e−11 ± 1.972e−14
0.025
0.02
0.015
0.01
0.005
0

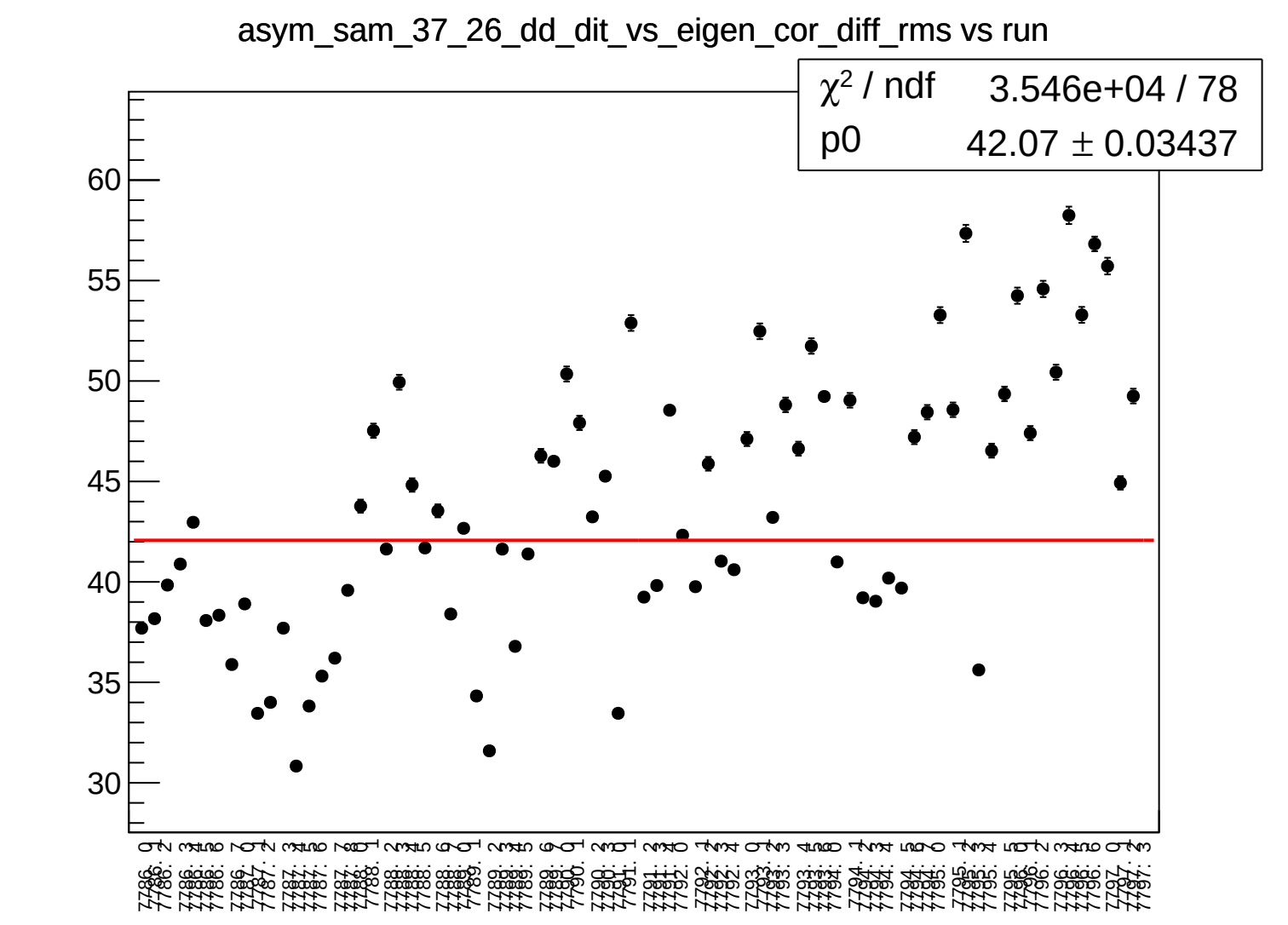

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.26 / 78
p0 0.09233 ± 0.0486
pull
Entries 79
Mean 2.511
Std Dev 89.01

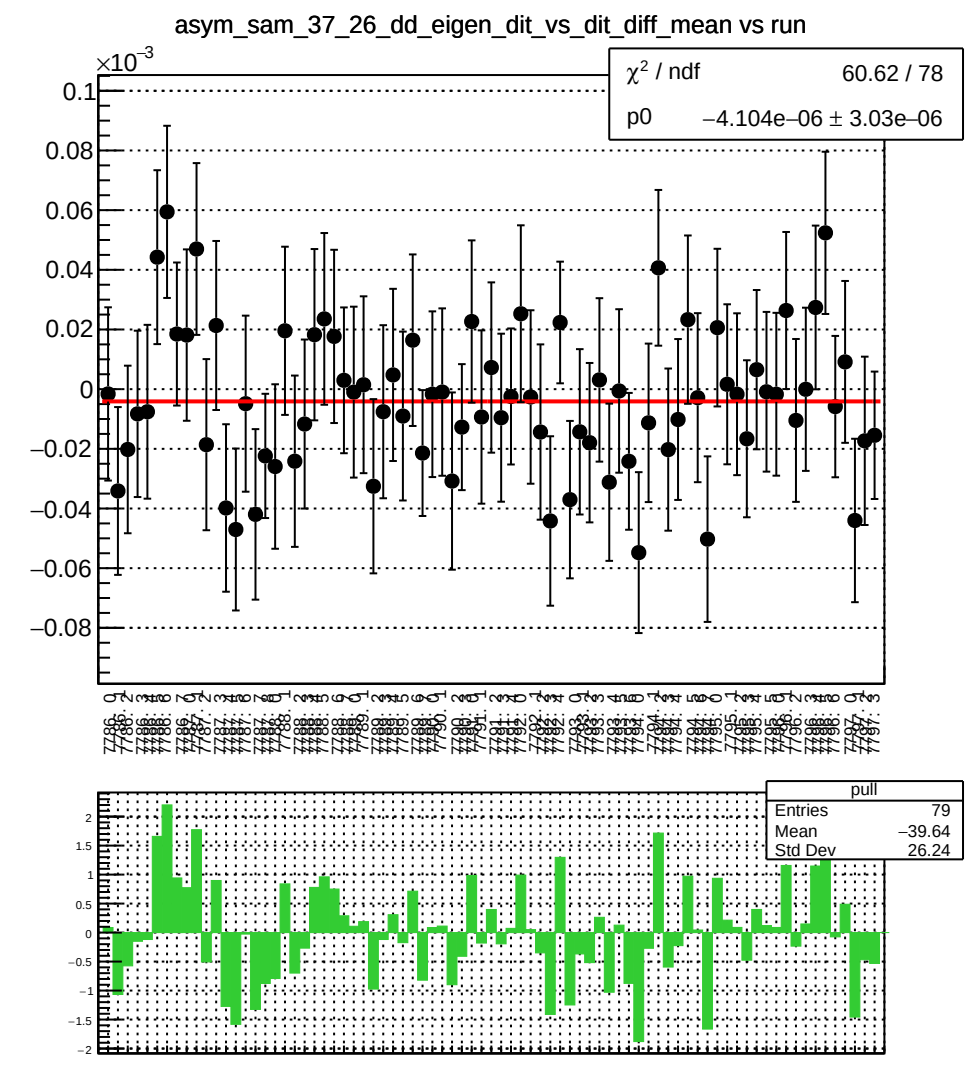

pull1D
Entries 79
Mean −0.0088
Std Dev 0.976

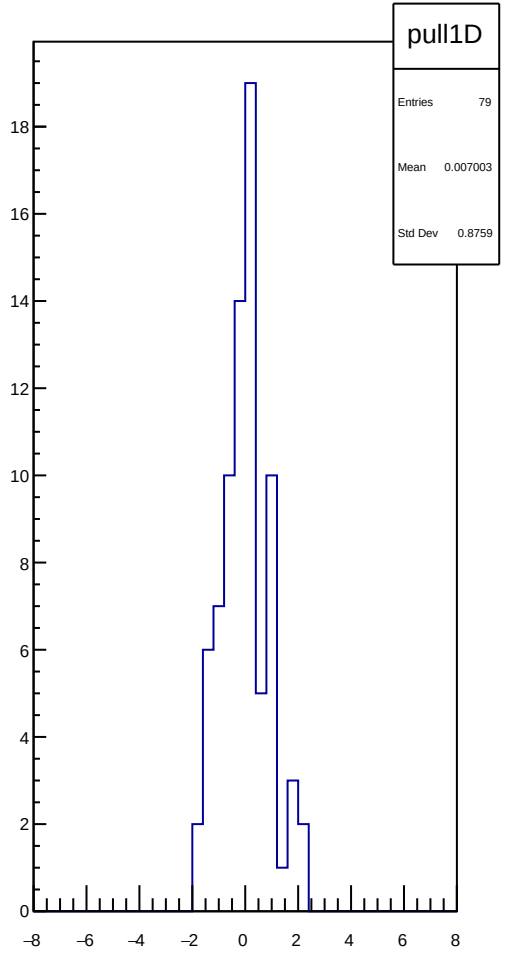

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.546e+04 / 78
p0 42.07 ± 0.03437
60
55
50
45
40
35
30

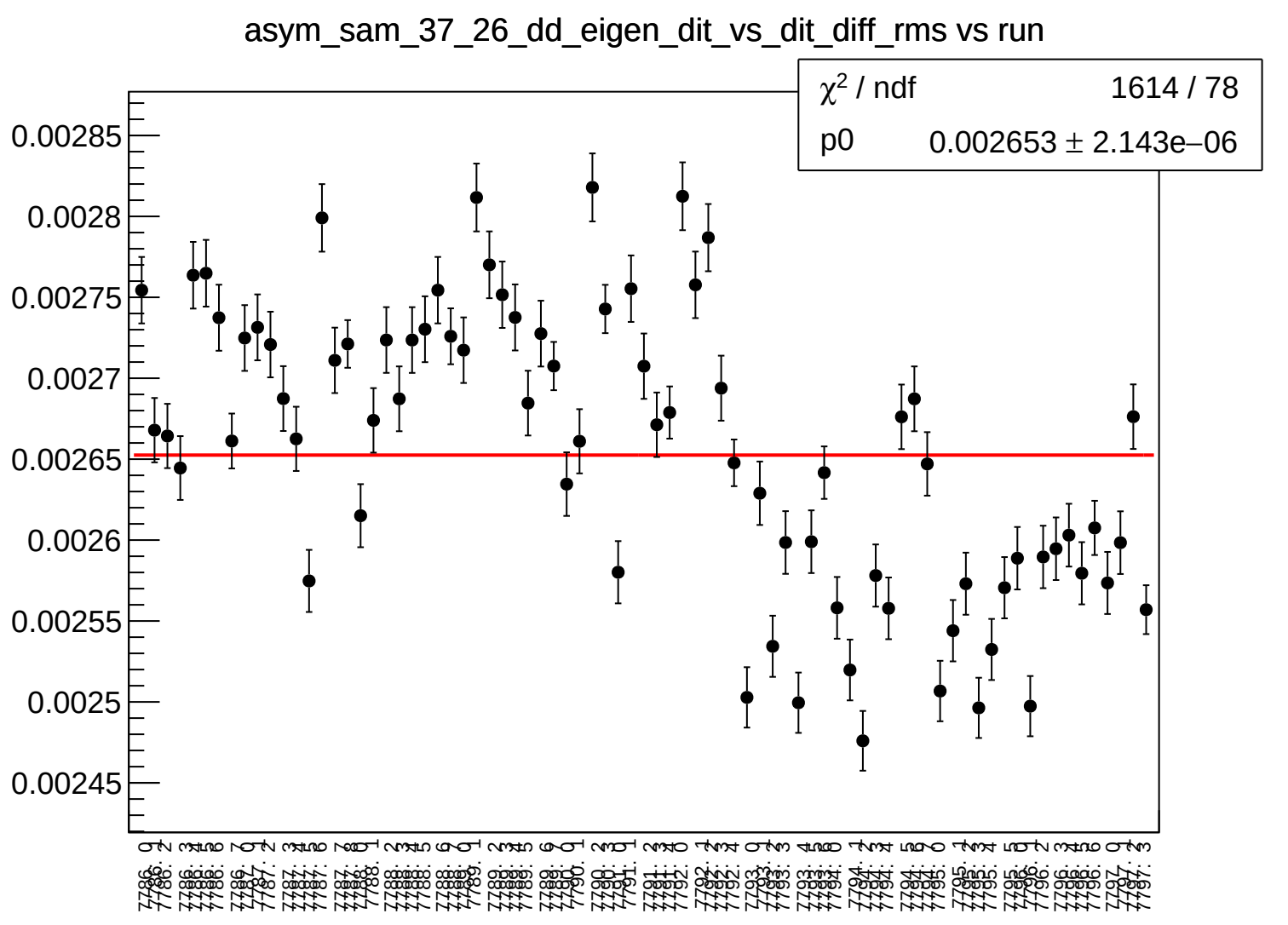

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.26 / 78
p0 0.09233 ± 0.0486
pull
Entries 79
Mean 2.511
Std Dev 89.01

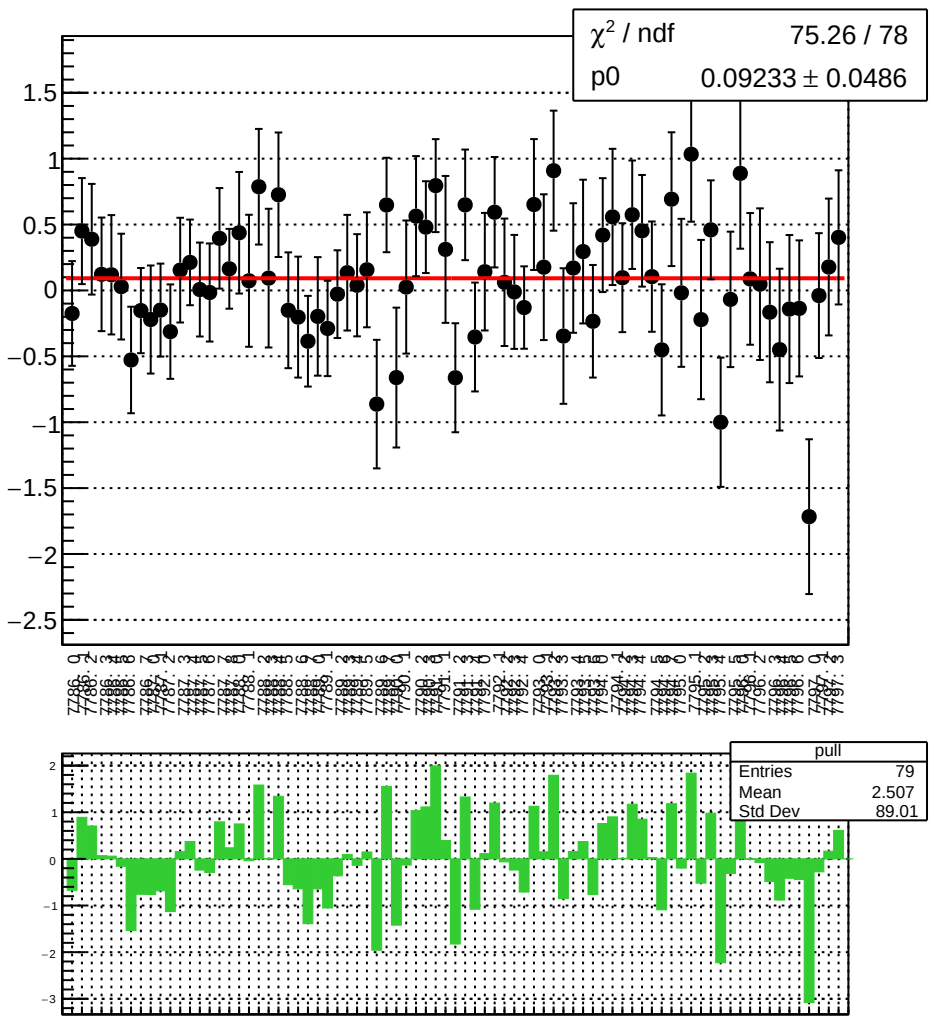

pull1D
Entries 79
Mean −0.0088
Std Dev 0.976

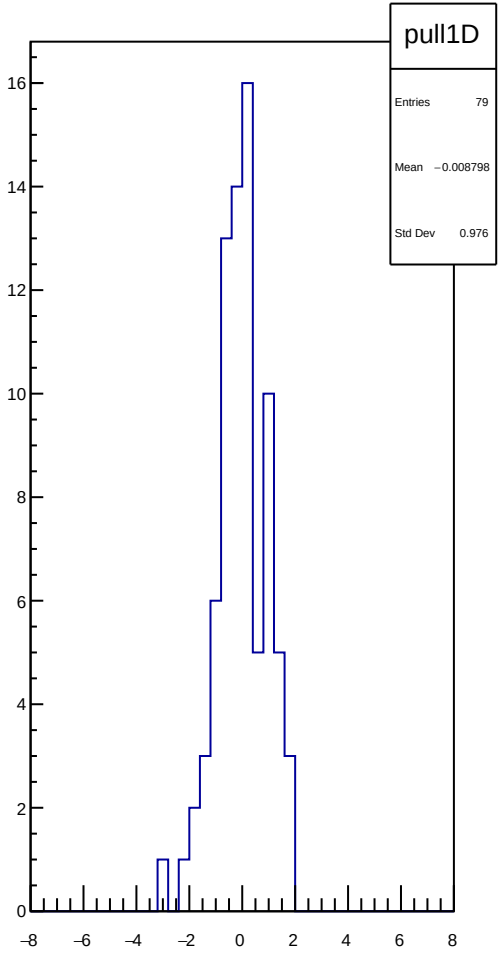

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.546e+04 / 78
p0 42.07 ± 0.03437
60
55
50
45
40
35
30

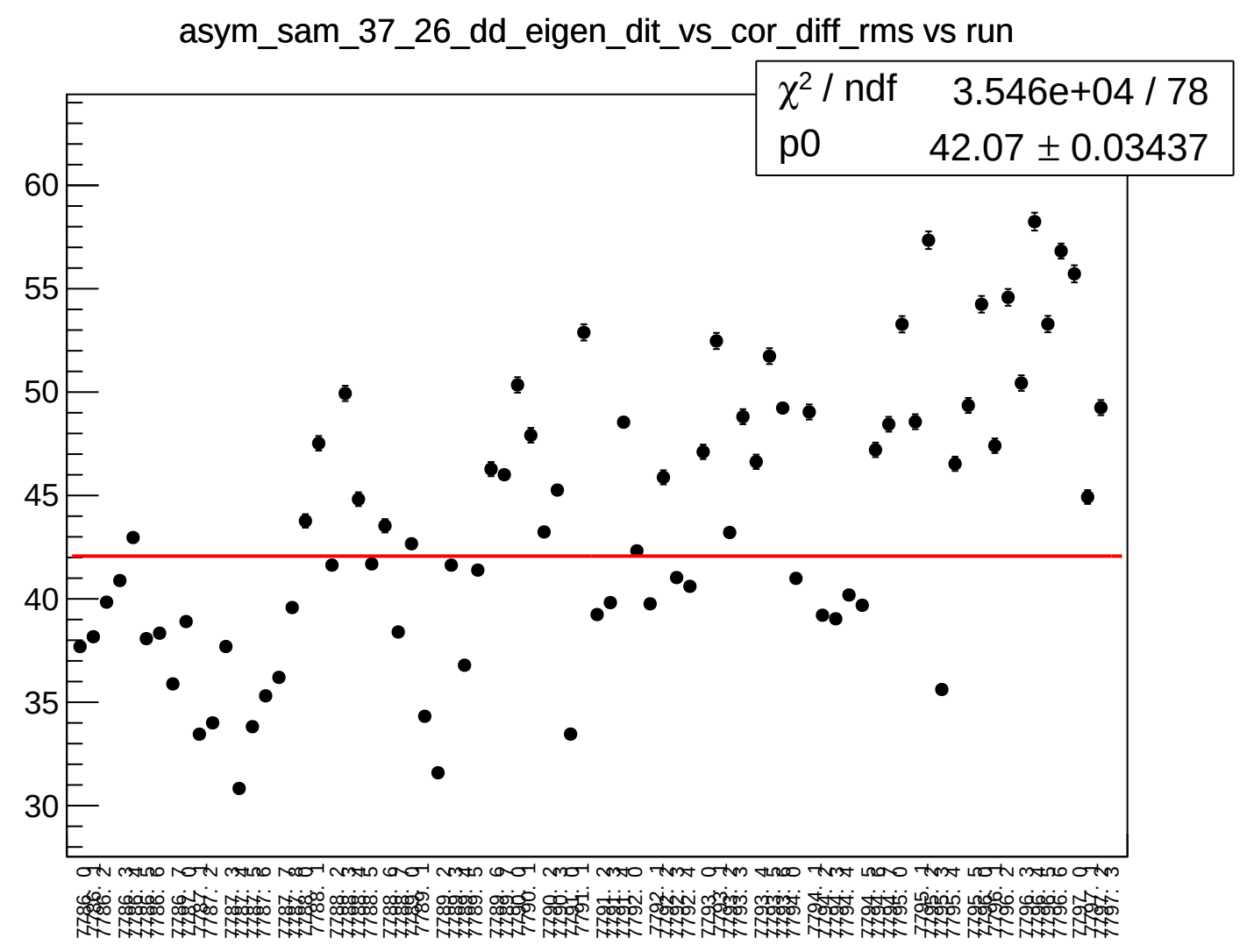

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 60.62 / 78
p0 −4.104e−06 ± 3.03e−06
pull
Entries 79
Mean −39.64
Std Dev 26.24

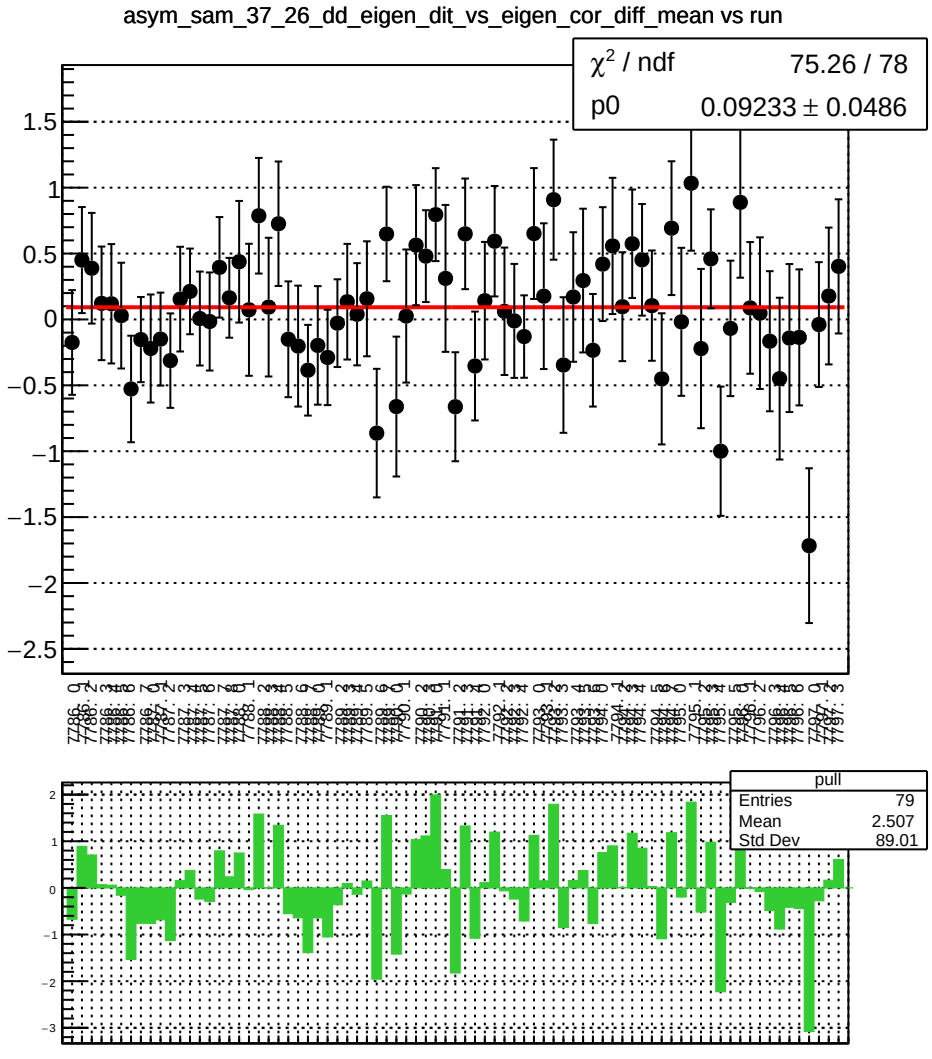

pull1D
Entries 79
Mean 0.007003
Std Dev 0.8759

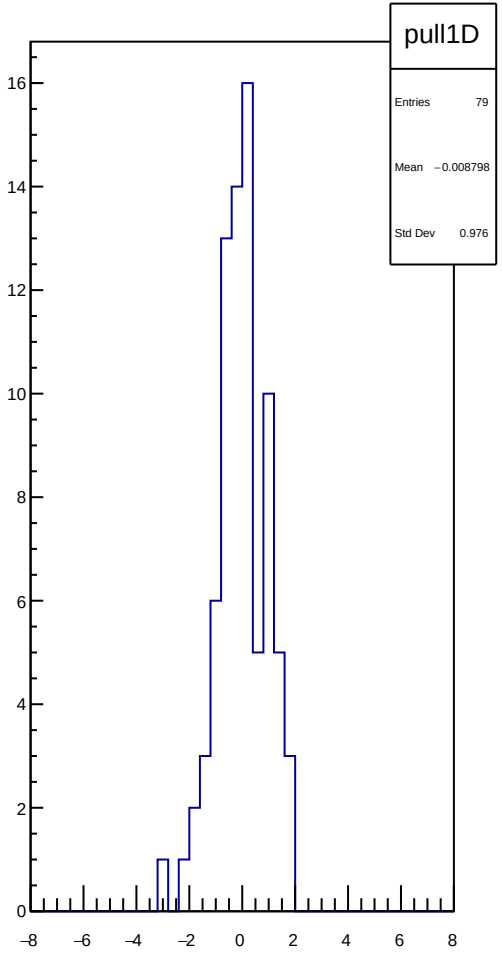

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1614 / 78
p0 0.002653 ± 2.143e−06
0.00285
0.0028
0.00275
0.0027
0.00265
0.0026
0.00255
0.0025
0.00245

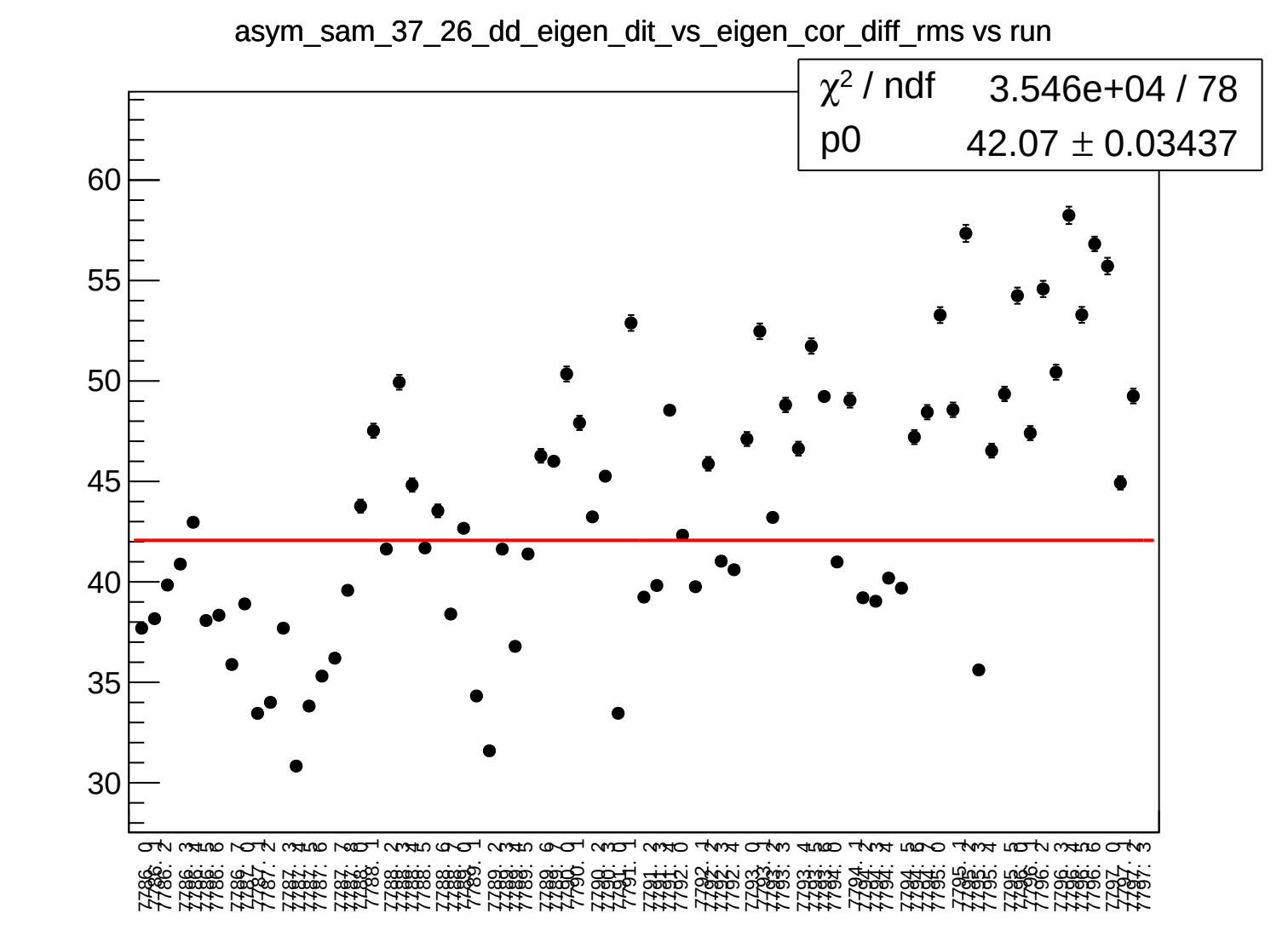

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.26 / 78
p0 0.09233 ± 0.0486
pull
Entries 79
Mean 2.507
Std Dev 89.01

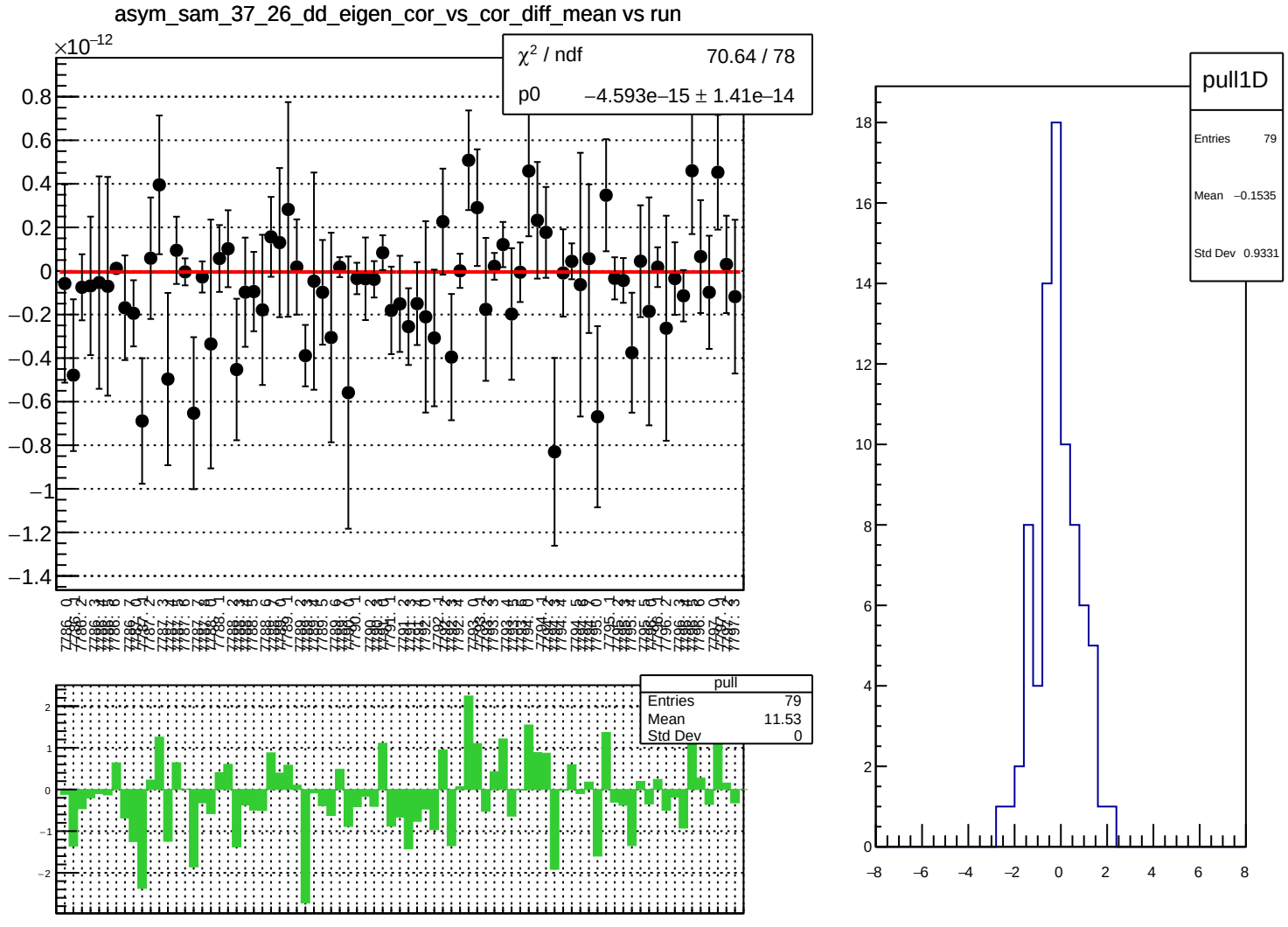

pull1D
Entries 79
Mean −0.008798
Std Dev 0.976

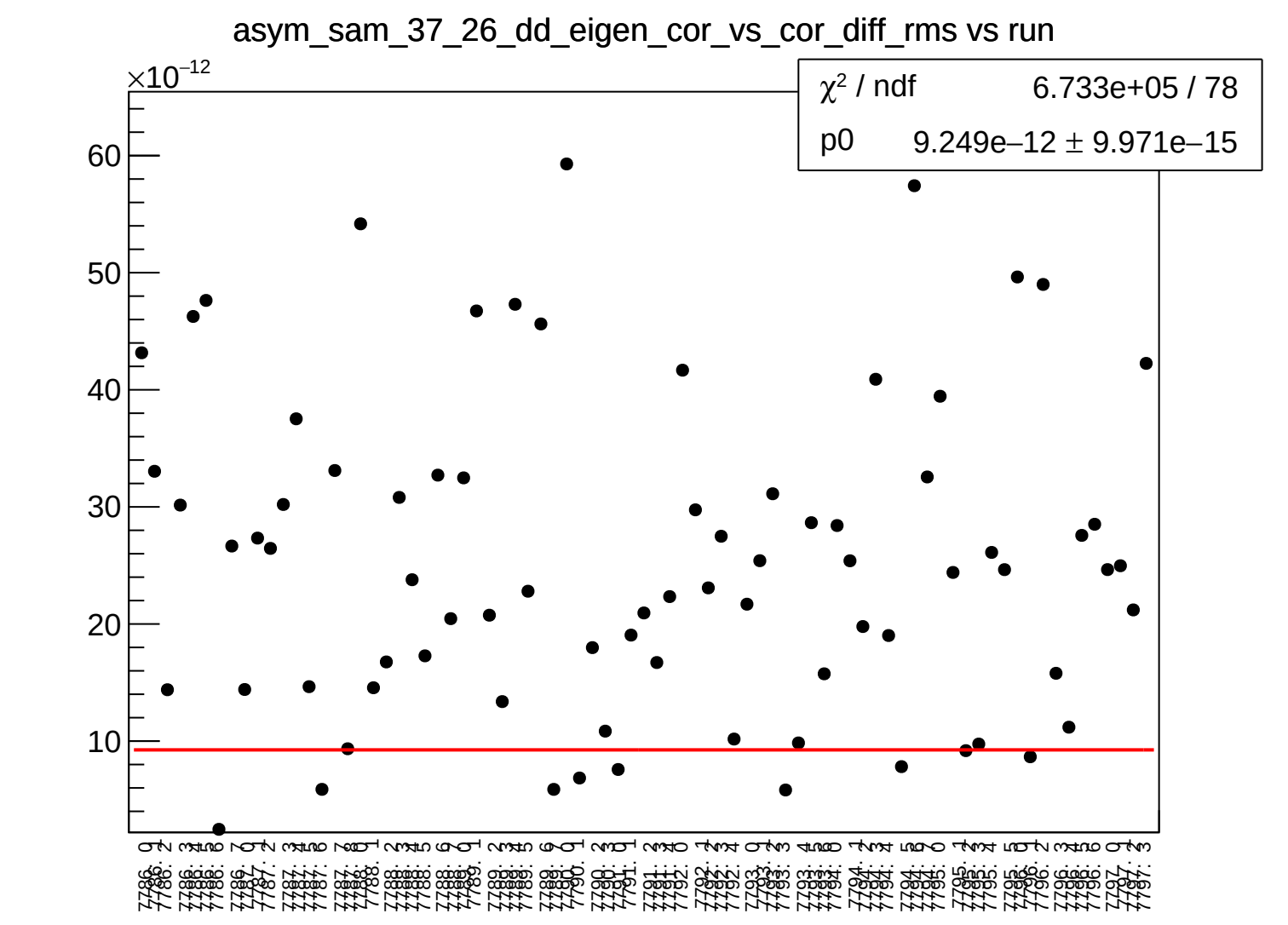

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.546e+04 / 78
p0 42.07 ± 0.03437
60
55
50
45
40
35
30

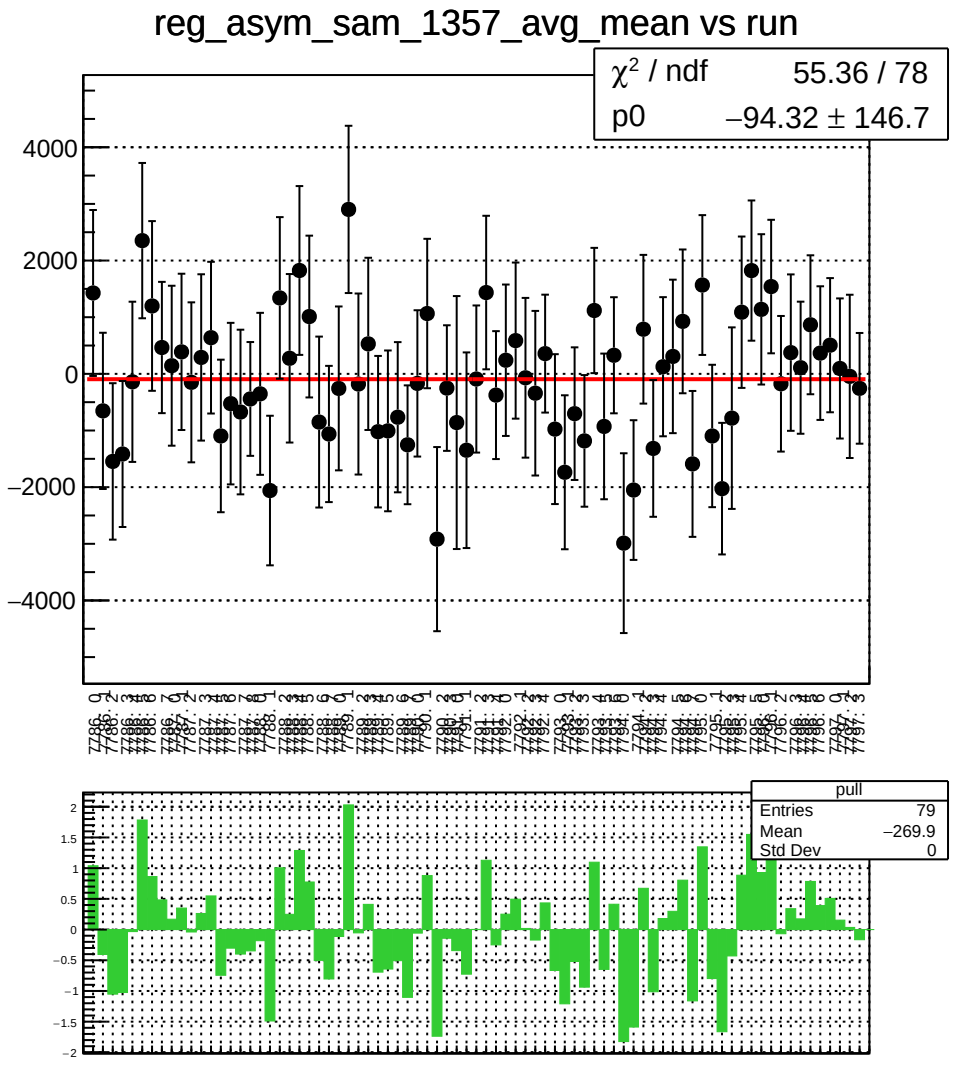

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.26 / 78
p0 0.09233 ± 0.0486
pull
Entries 79
Mean 2.507
Std Dev 89.01

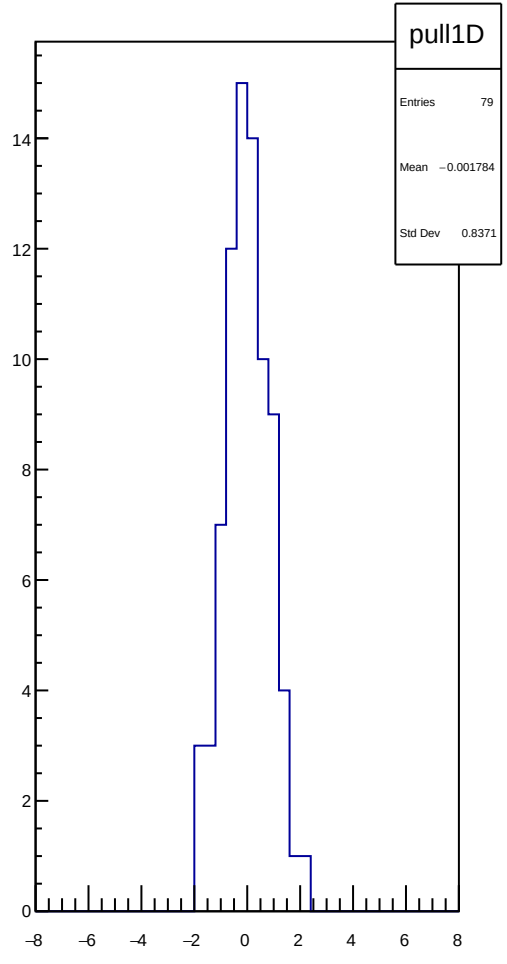

pull1D
Entries 79
Mean −0.008798
Std Dev 0.976

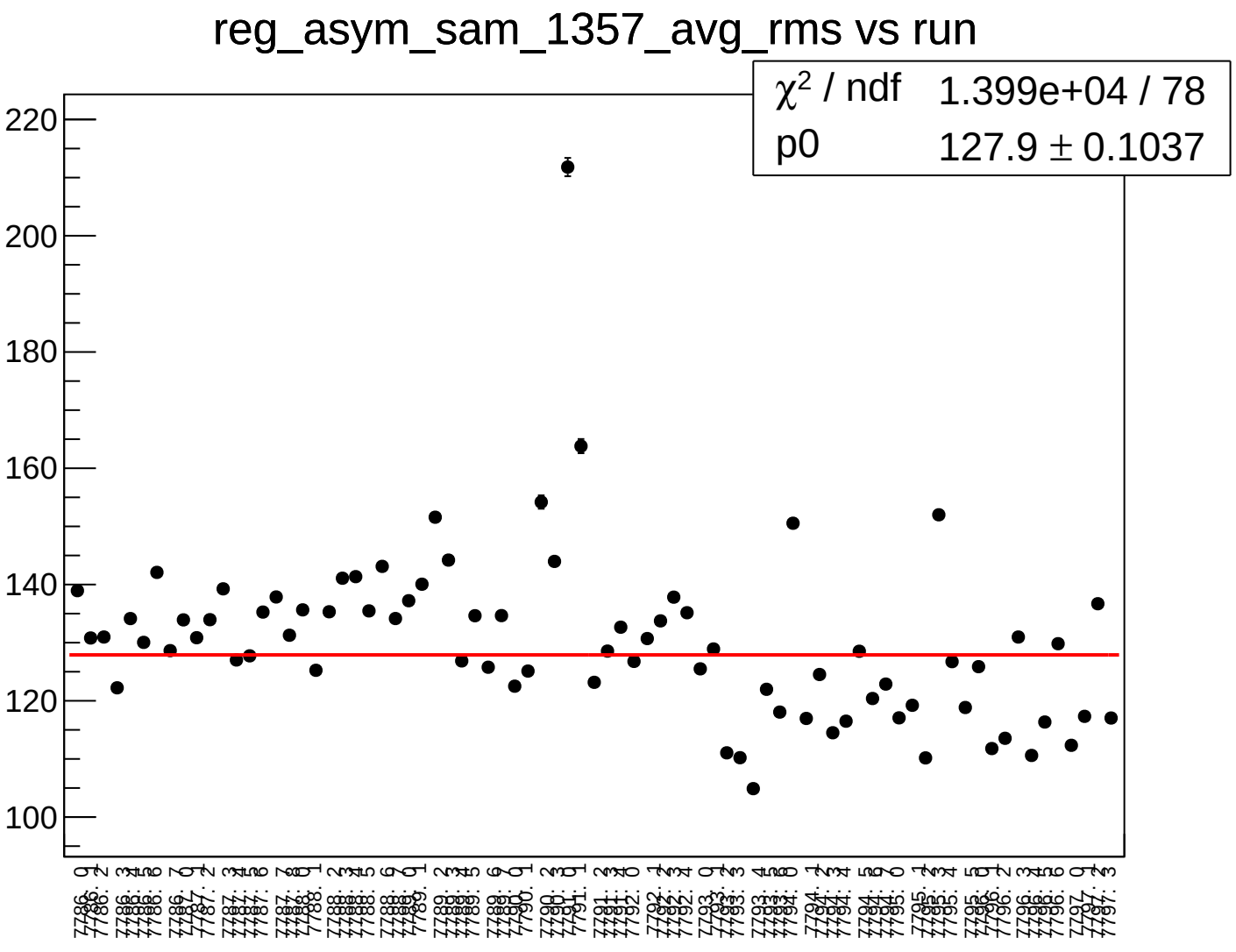

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.546e+04 / 78
p0 42.07 ± 0.03437
60
55
50
45
40
35
30

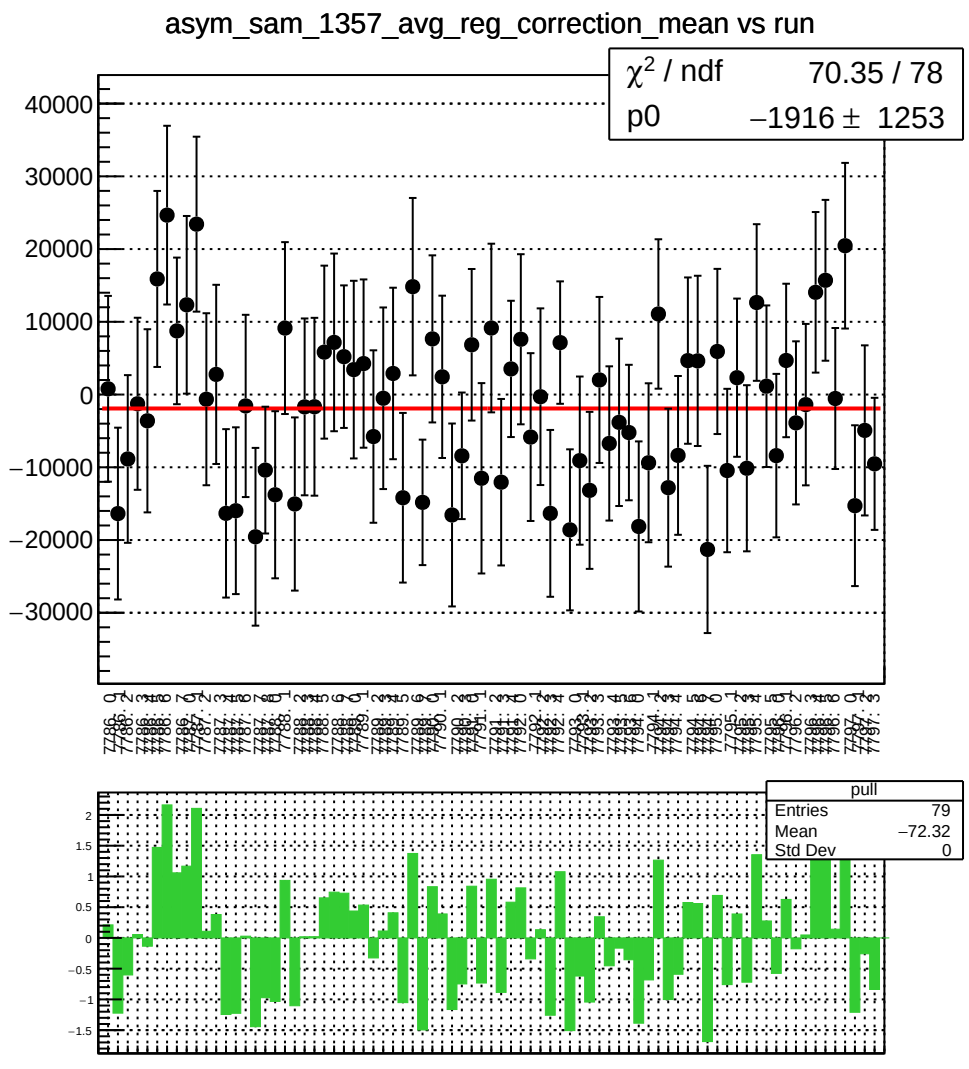

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.64 / 78
p0 −4.593e−15 ± 1.41e−14
pull
Entries 79
Mean 11.53
Std Dev 0
pull1D
Entries 79
Mean −0.1535
Std Dev 0.9331

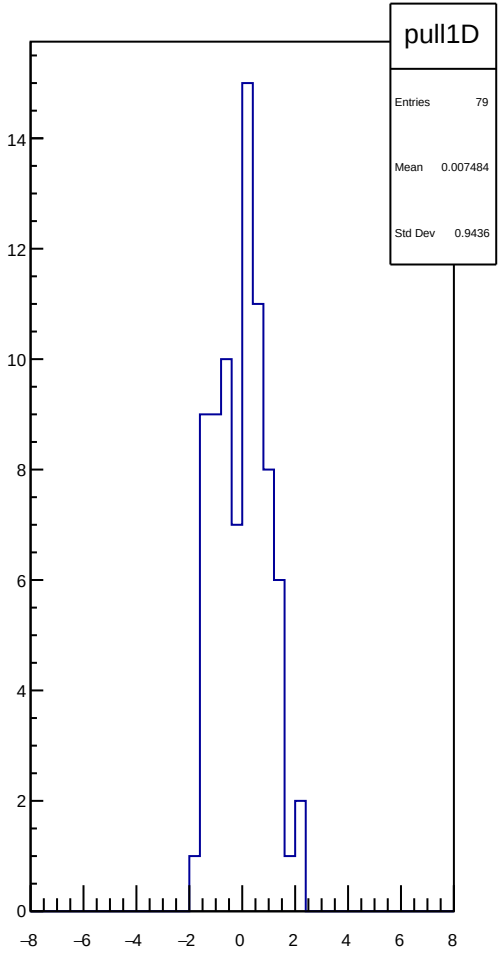

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.733e+05 / 78
p0 9.249e−12 ± 9.971e−15
60
50
40
30
20
10

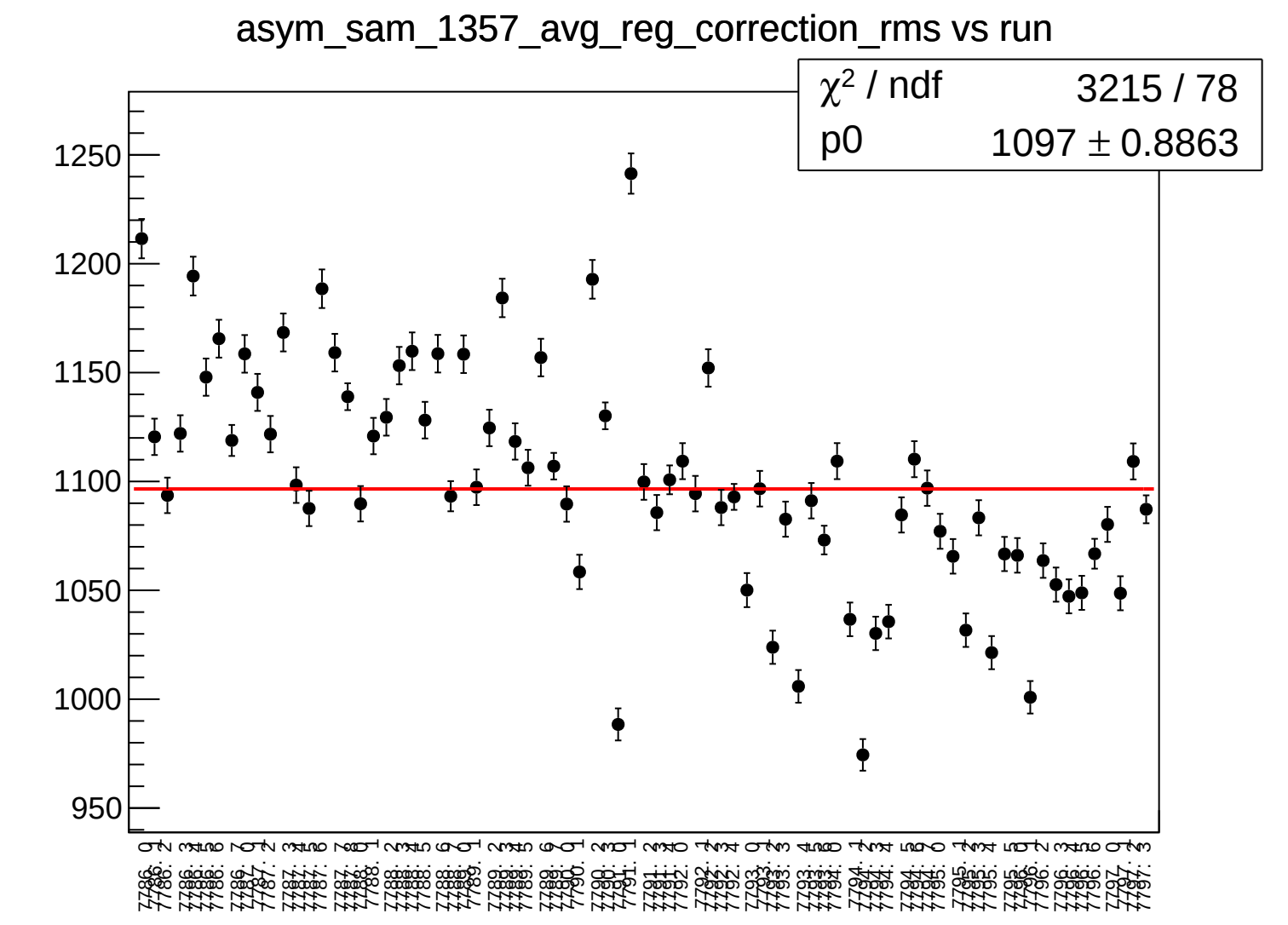

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 55.36 / 78
p0 −94.32 ± 146.7
4000
2000
0
−2000
−4000
pull
Entries 79
Mean −269.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

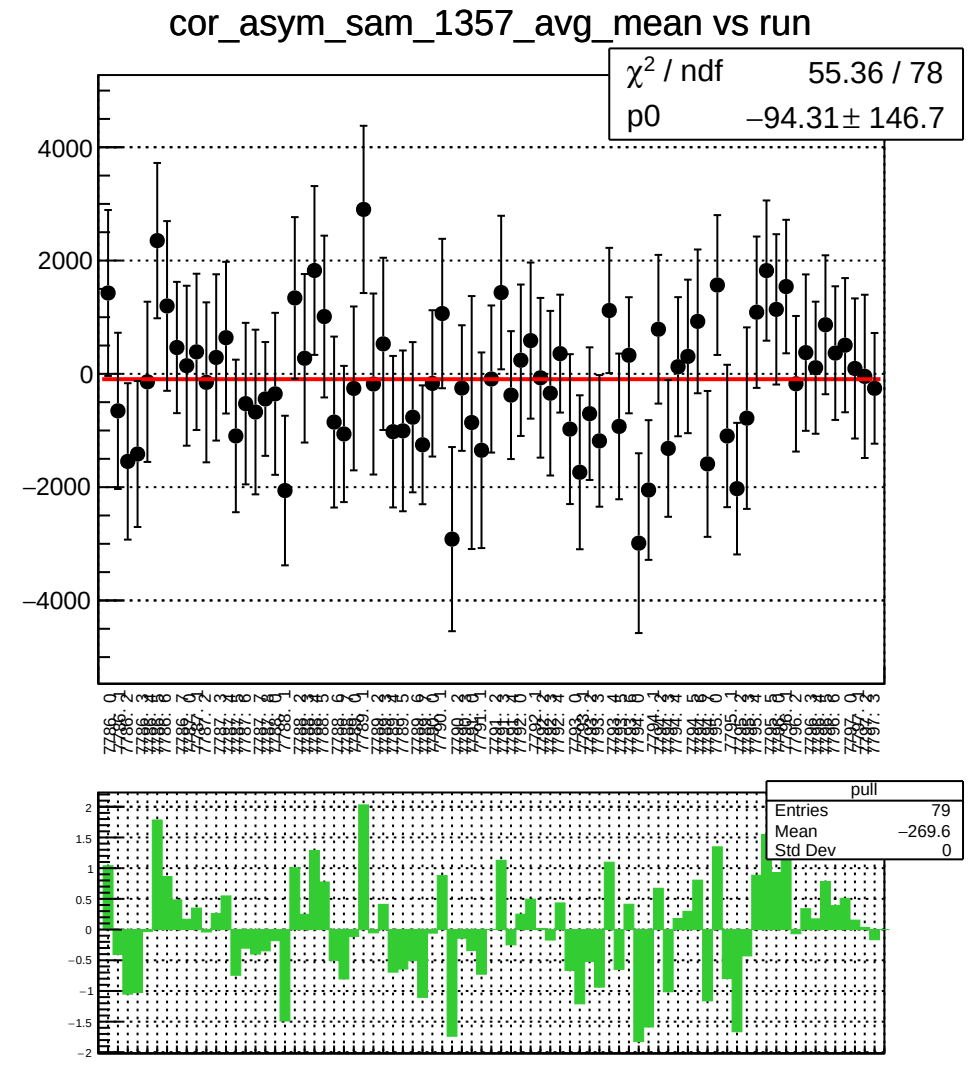

pull1D
Entries 79
Mean −0.001784
Std Dev 0.8371
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

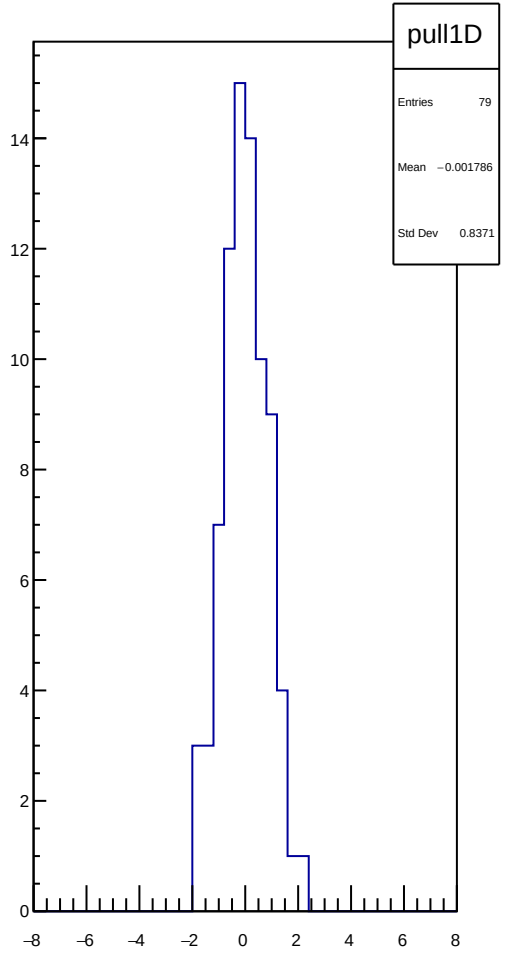

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.399e+04 / 78
p0 127.9 ± 0.1037
220
200
180
160
140
120
100

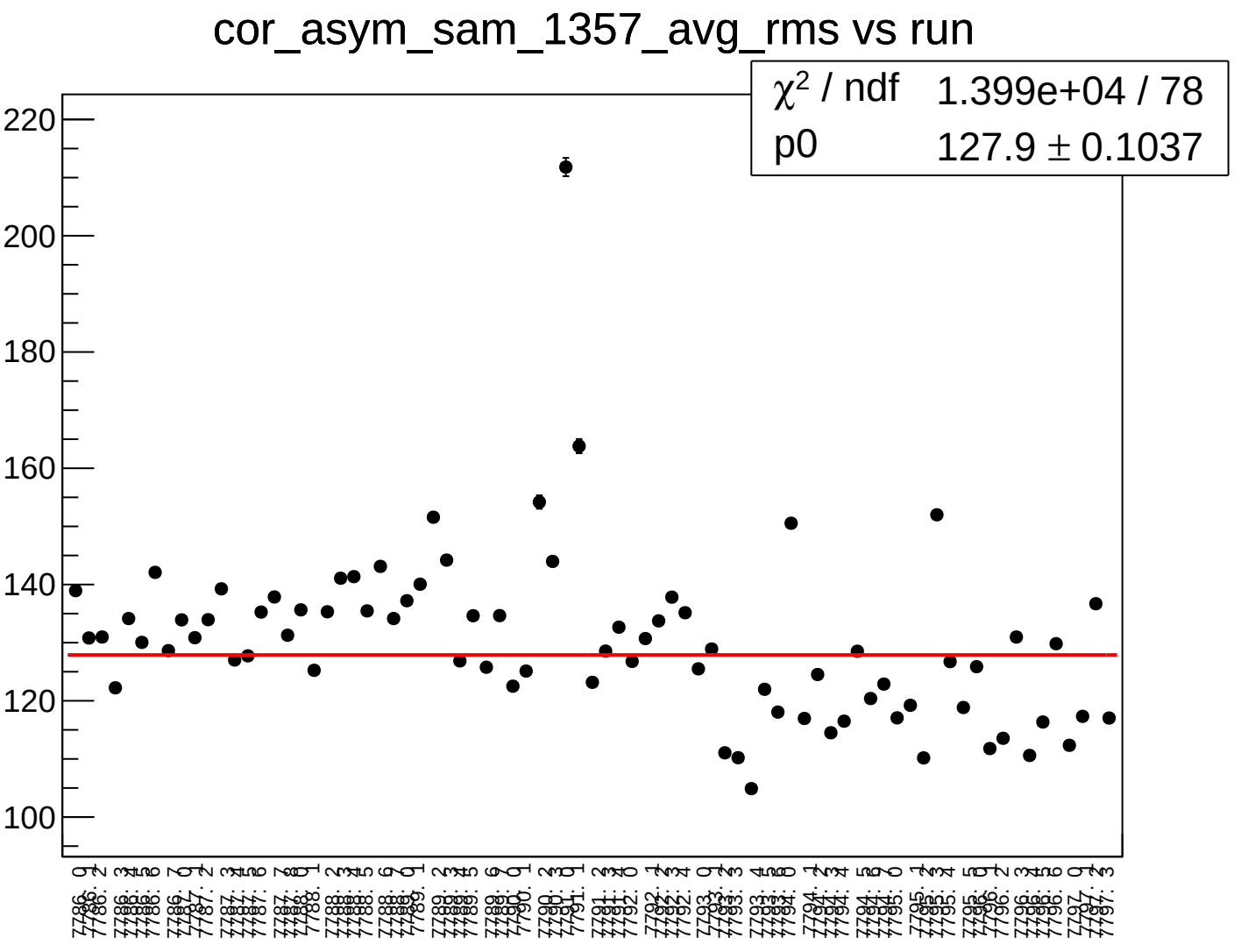

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 70.35 / 78
p0 −1916 ± 1253
pull
Entries 79
Mean −72.32
Std Dev 0

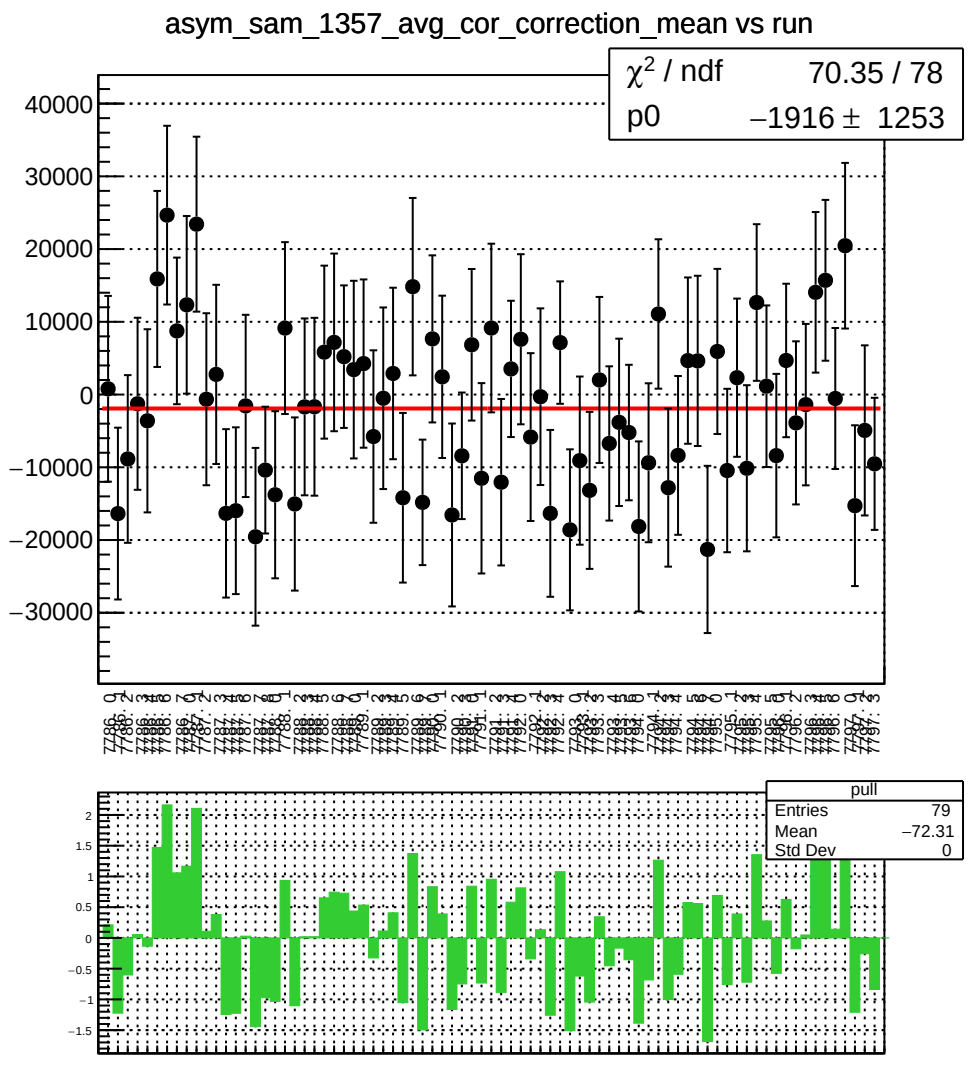

pull1D
Entries 79
Mean 0.007484
Std Dev 0.9436

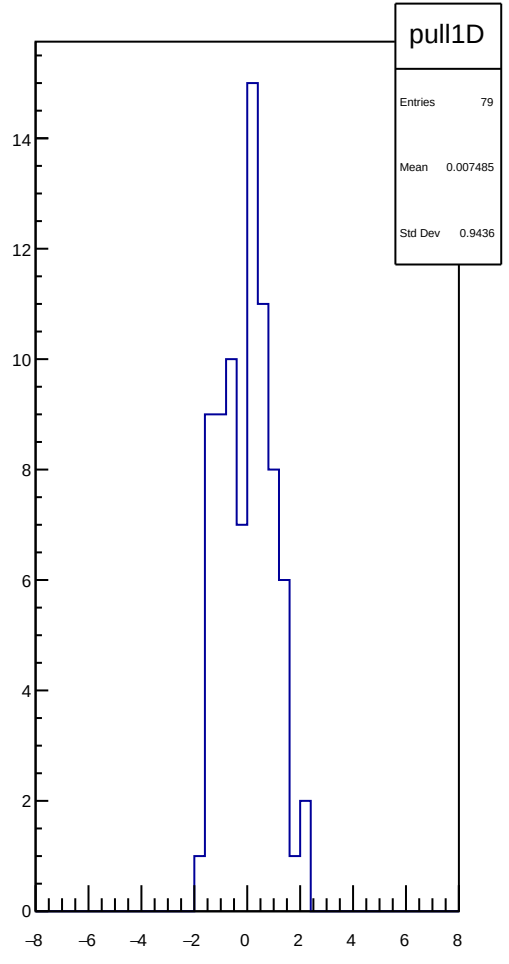

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 3215 / 78
p0 1097 ± 0.8863
1250
1200
1150
1100
1050
1000
950

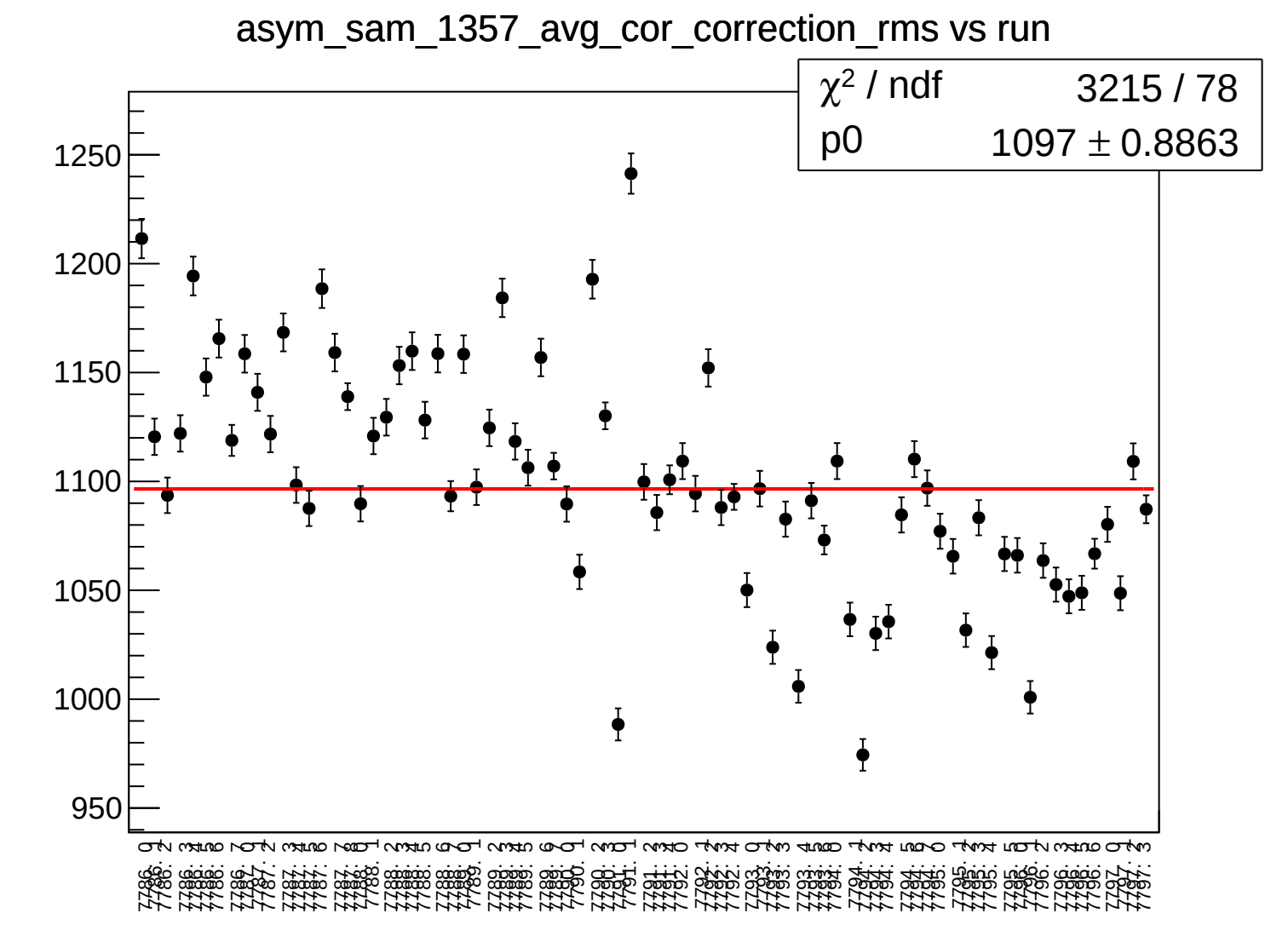

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 55.36 / 78
p0 −94.31 ± 146.7
4000
2000
0
−2000
−4000
pull
Entries 79
Mean −269.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

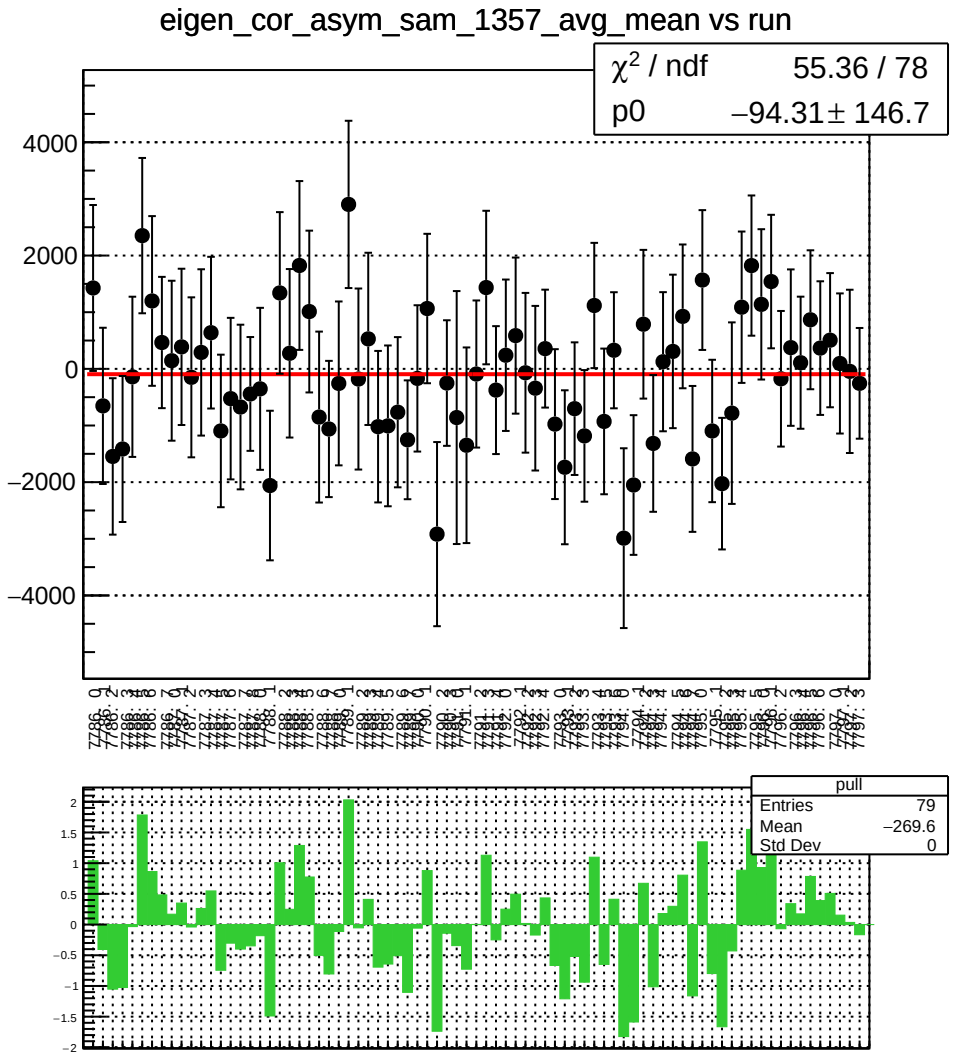

pull1D
Entries 79
Mean −0.001786
Std Dev 0.8371
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

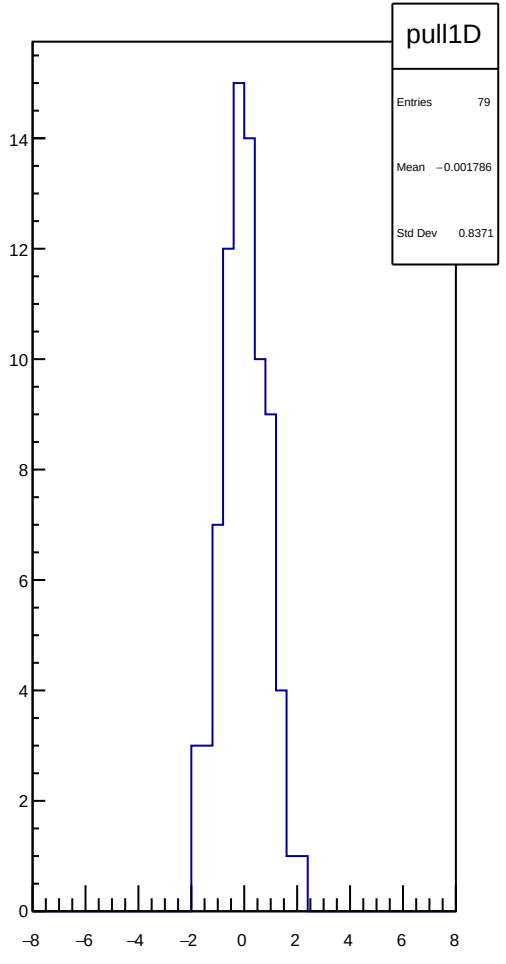

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.399e+04 / 78
p0 127.9 ± 0.1037
220
200
180
160
140
120
100

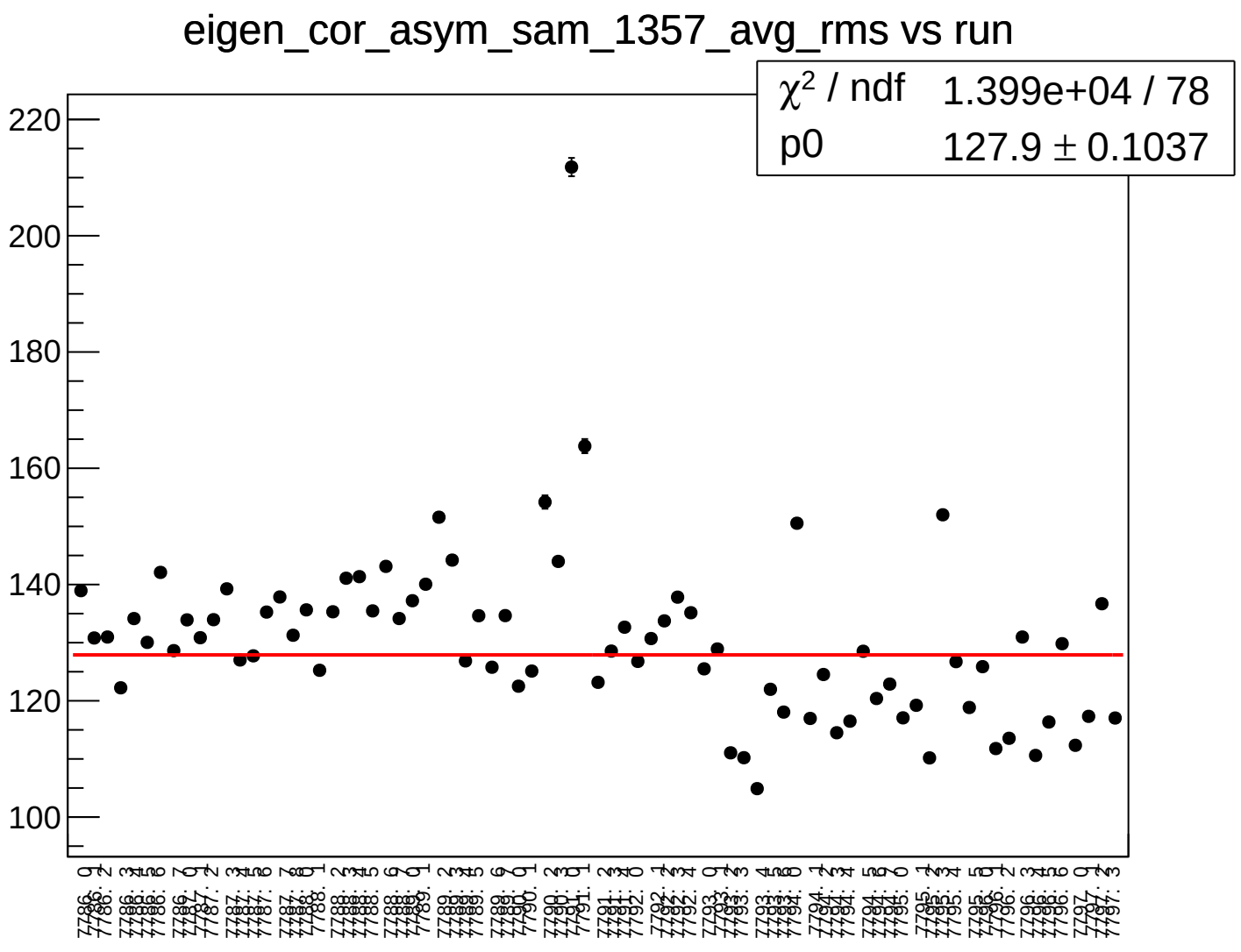

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 70.35 / 78
p0 −1916 ± 1253
pull
Entries 79
Mean −72.31
Std Dev 0

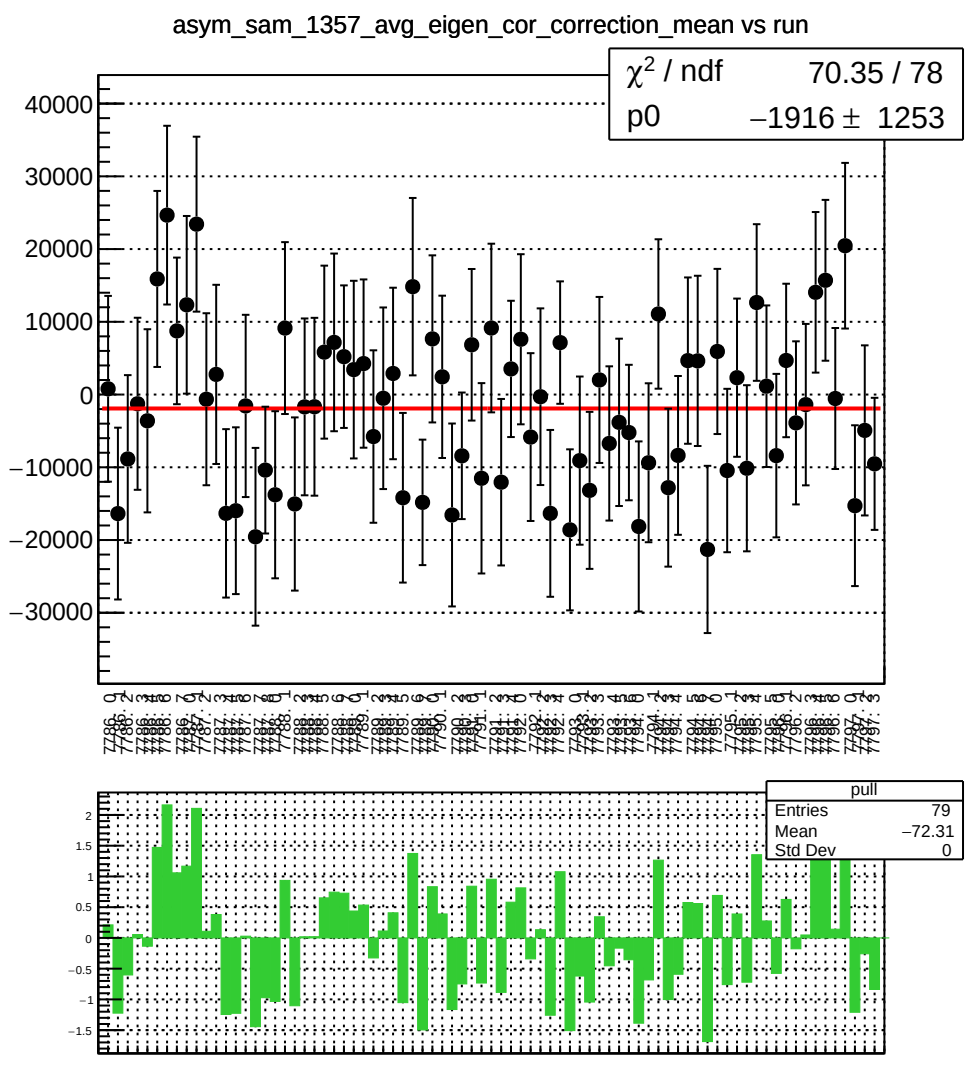

pull1D
Entries 79
Mean 0.007485
Std Dev 0.9436

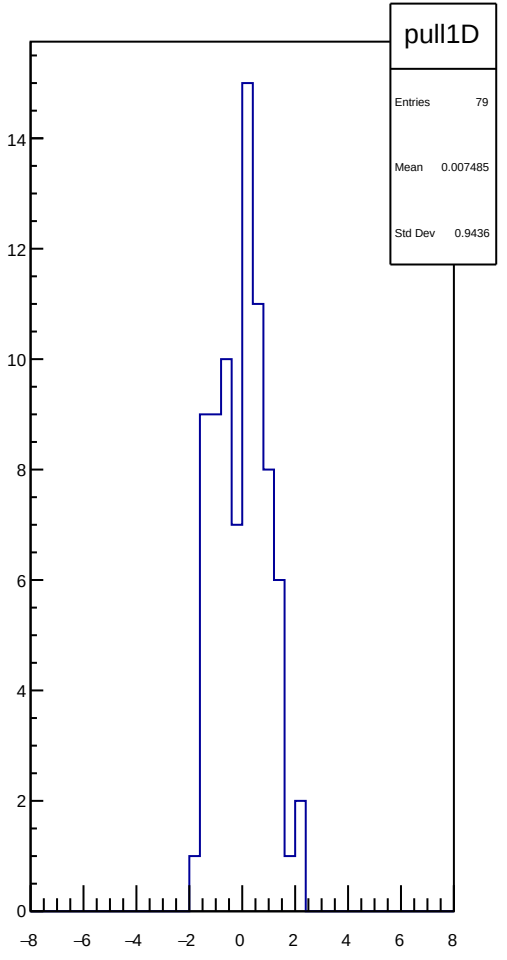

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 3215 / 78
p0 1097 ± 0.8863
1250
1200
1150
1100
1050
1000
950

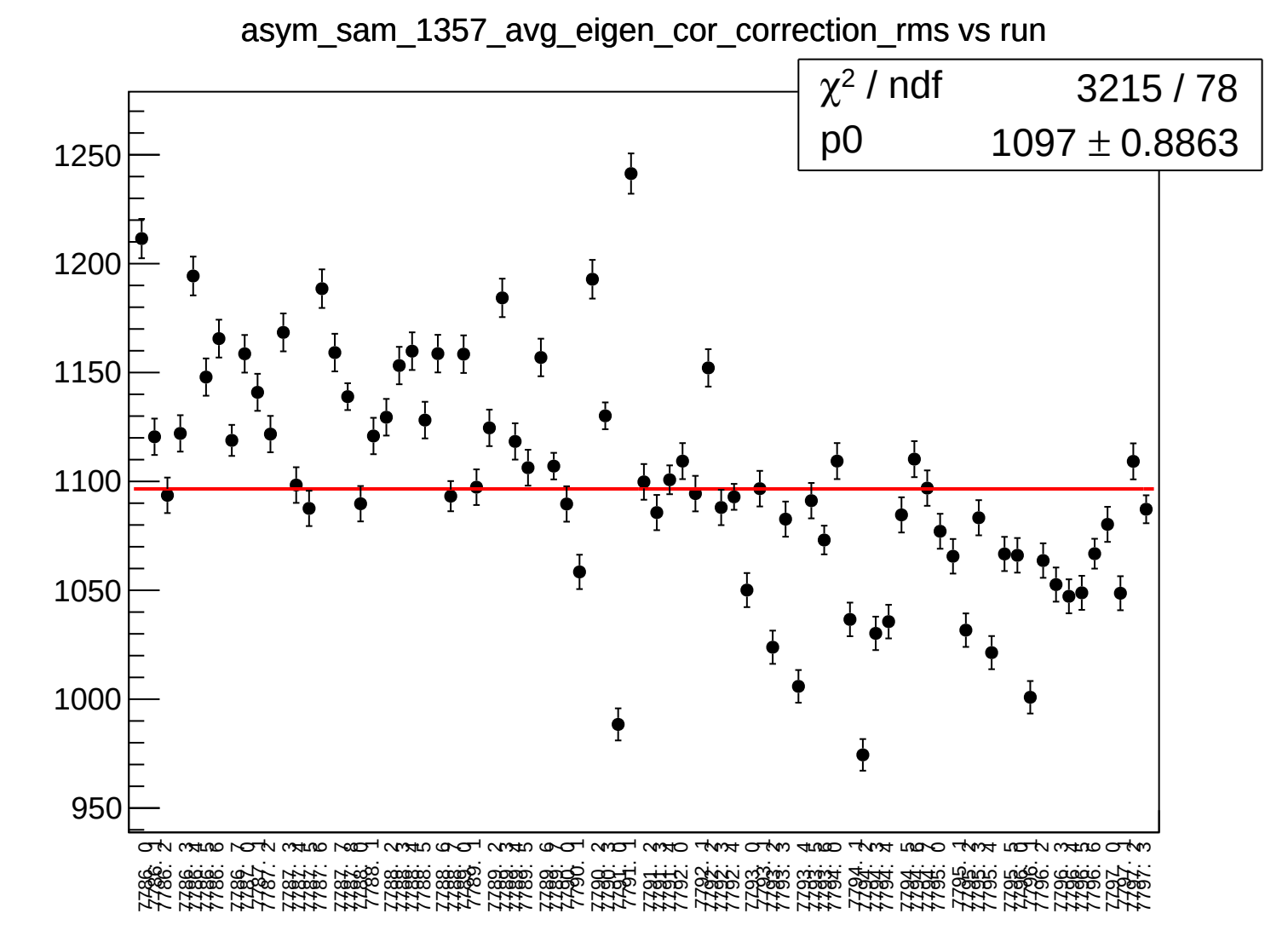

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 55.36 / 78
p0 −94.31 ± 146.7
4000
2000
0
−2000
−4000
pull
Entries 79
Mean −269.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

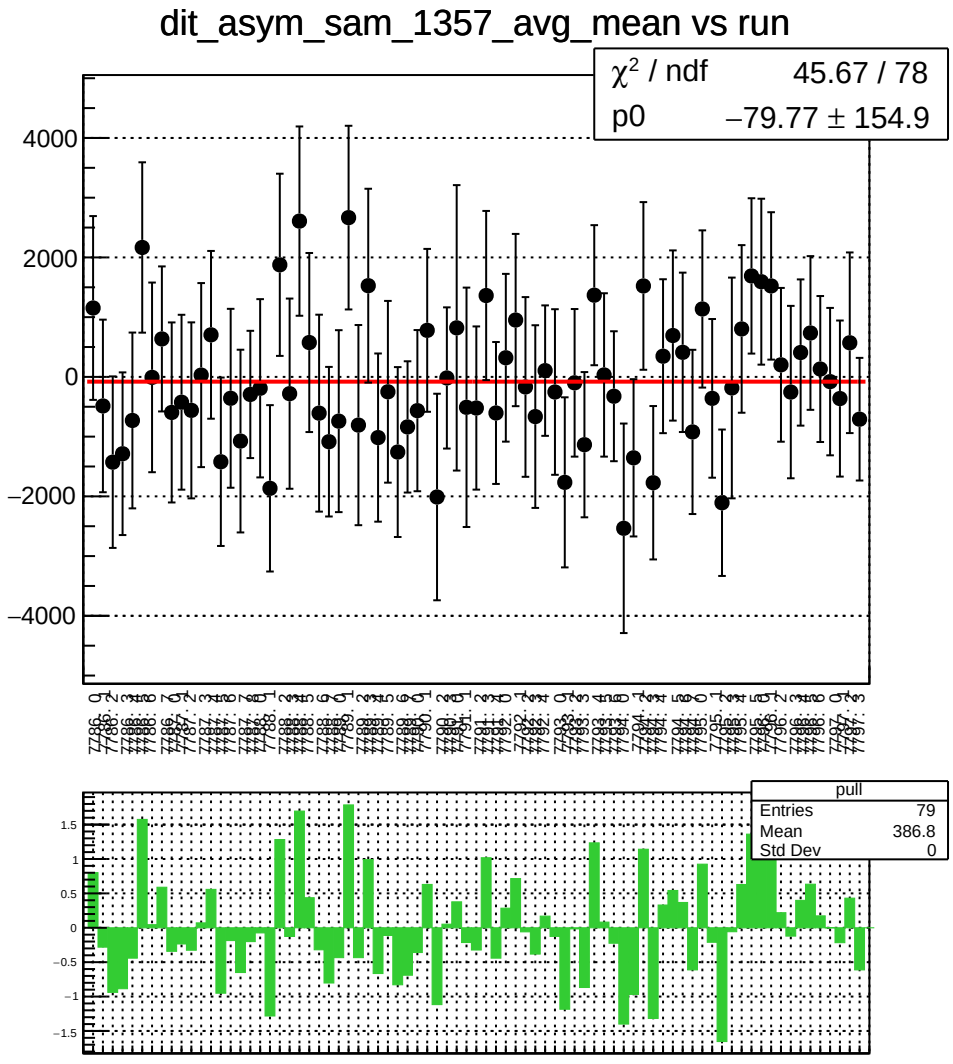

pull1D
Entries 79
Mean −0.001786
Std Dev 0.8371
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

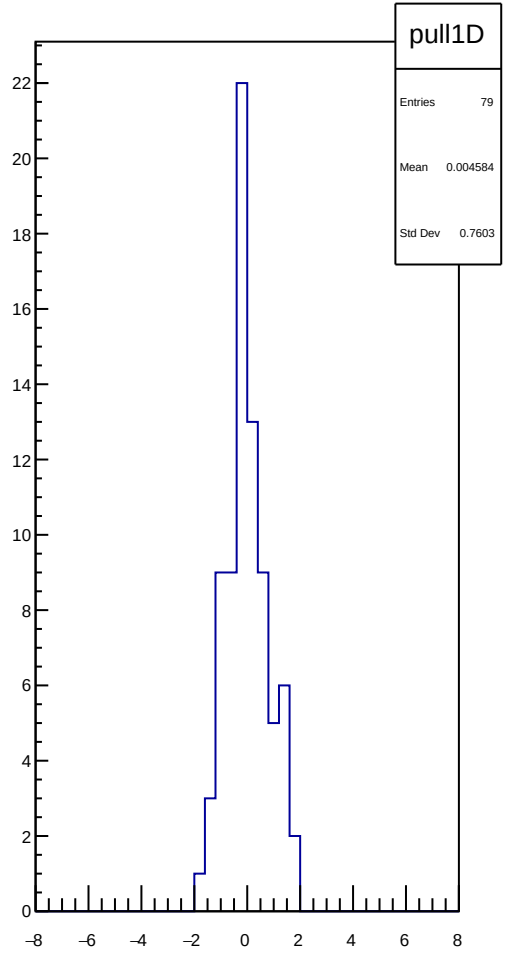

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.399e+04 / 78
p0 127.9 ± 0.1037
220
200
180
160
140
120
100

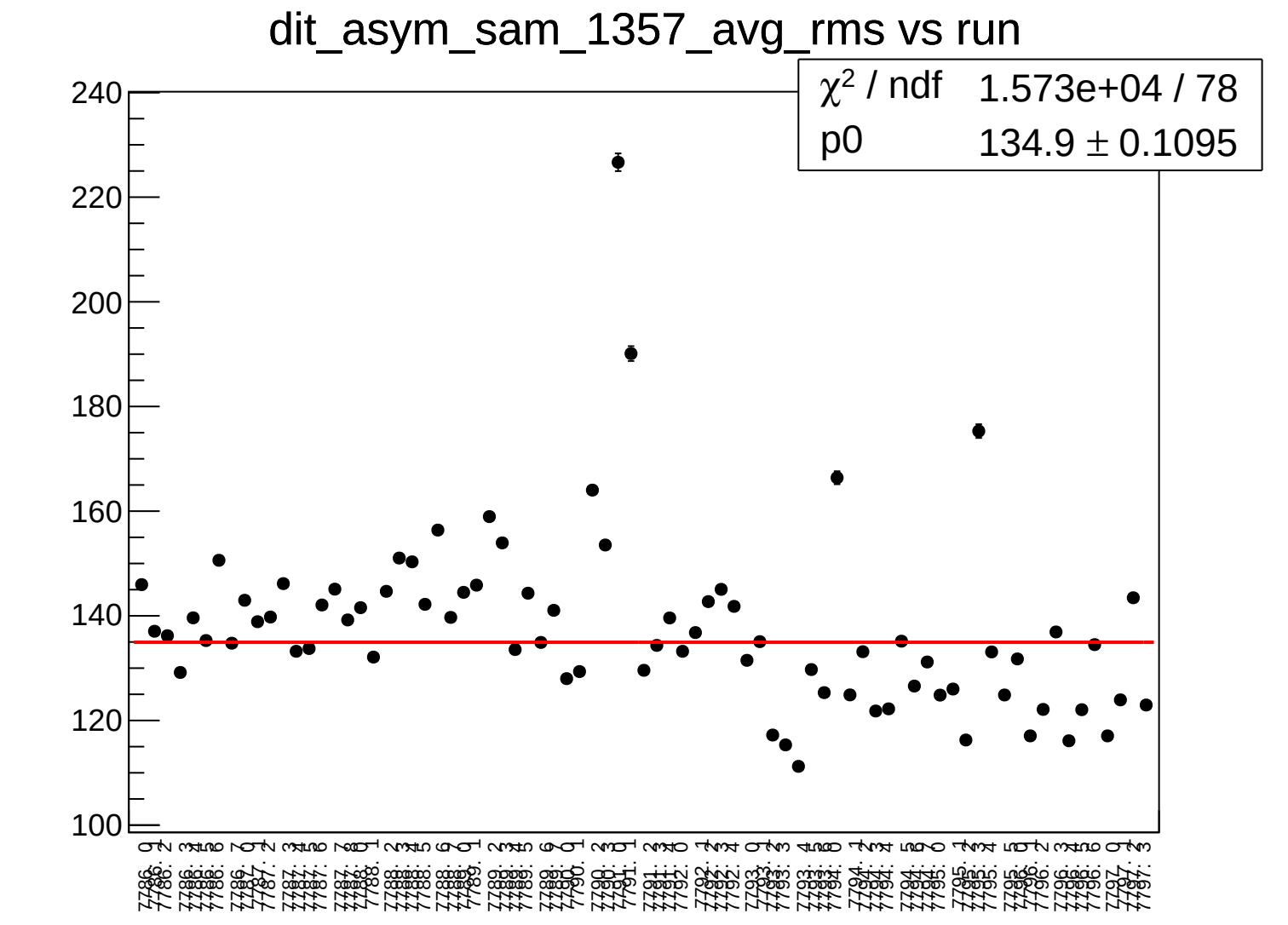

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.35 / 78
p0 −1916 ± 1253
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −72.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

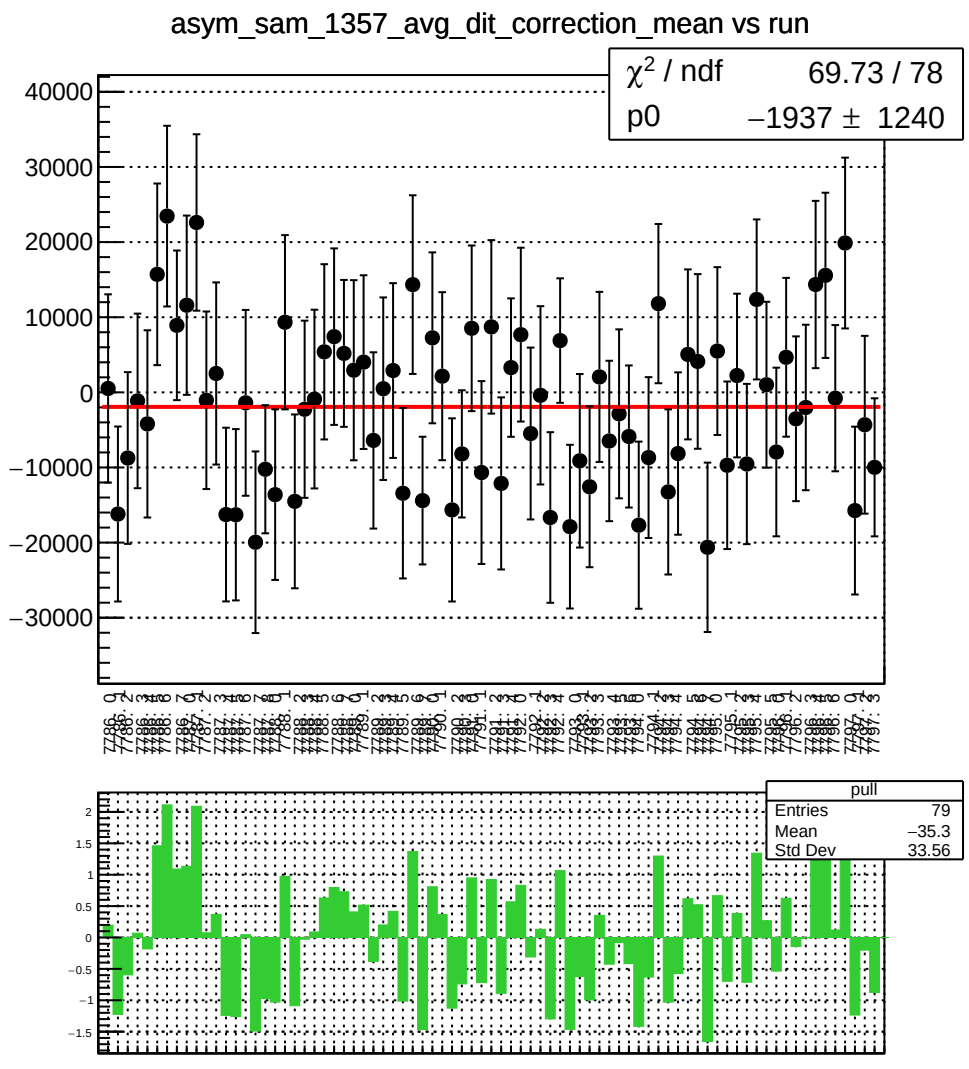

pull1D
Entries 79
Mean 0.007485
Std Dev 0.9436
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

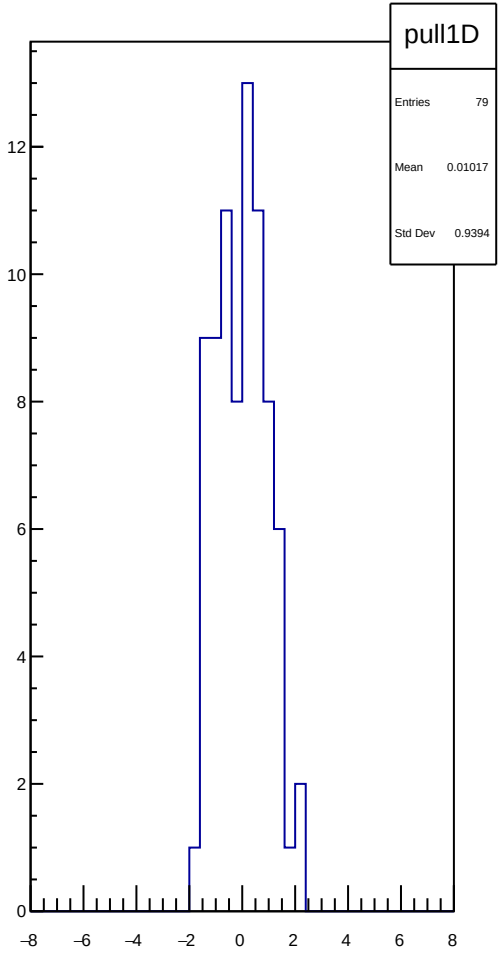

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 3215 / 78
p0 1097 ± 0.8863
1250
1200
1150
1100
1050
1000
950

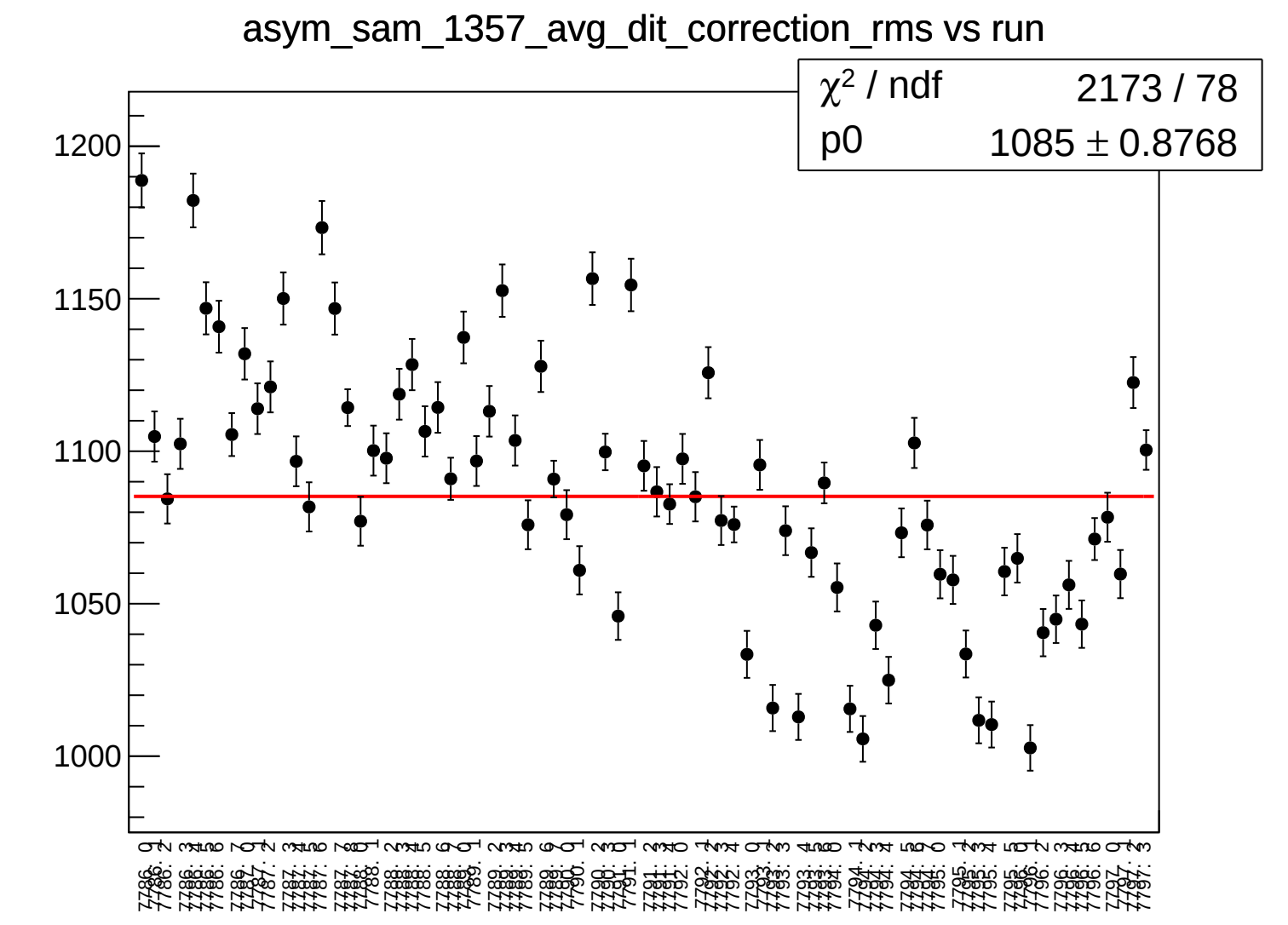

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 45.67 / 78
p0 −79.77 ± 154.9
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 386.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

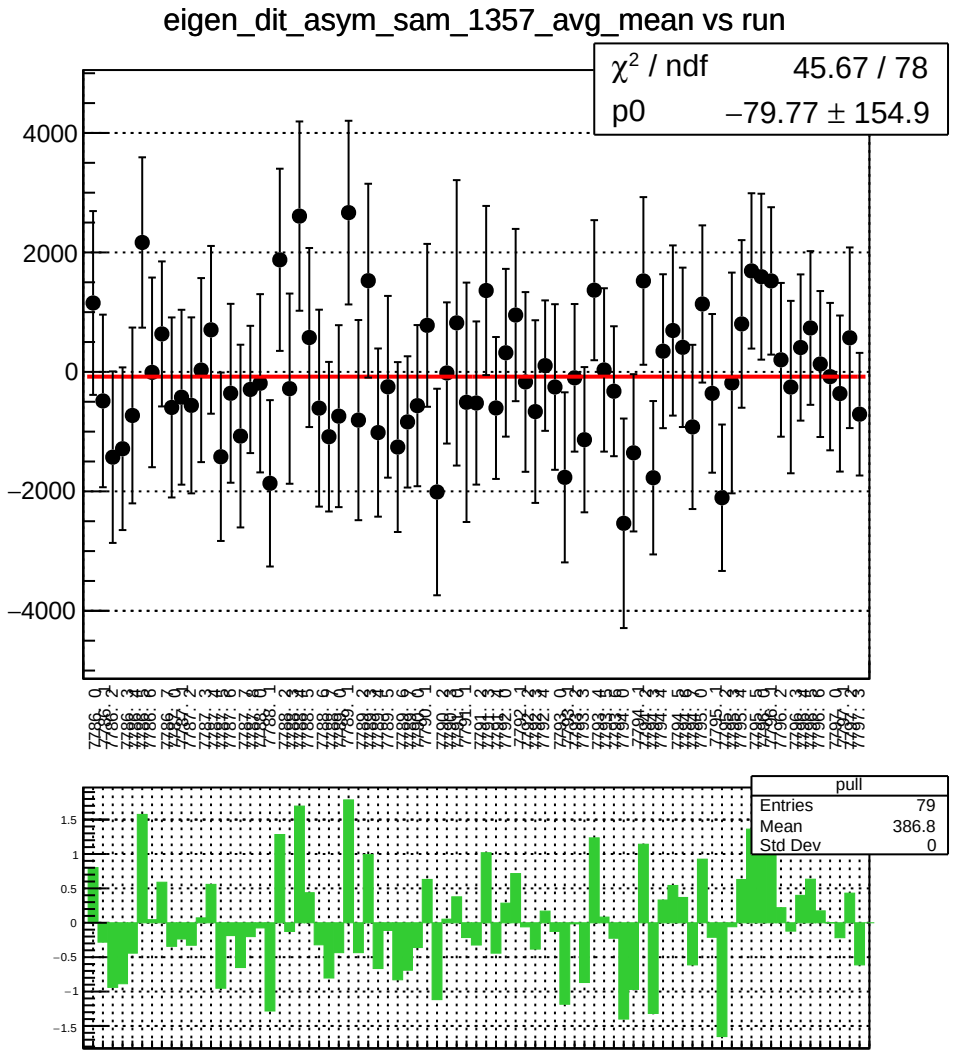

pull1D
Entries 79
Mean 0.004584
Std Dev 0.7603
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

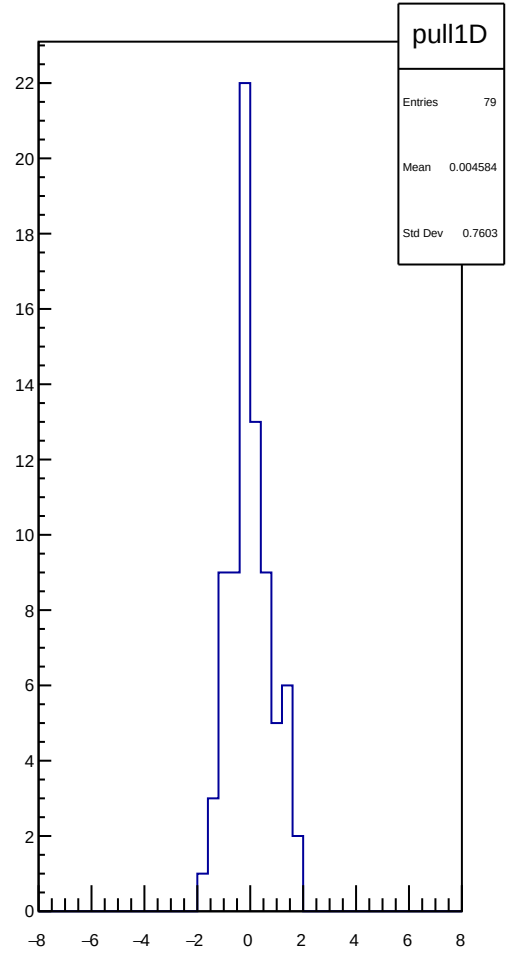

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.573e+04 / 78
p0 134.9 ± 0.1095
240
220
200
180
160
140
120
100

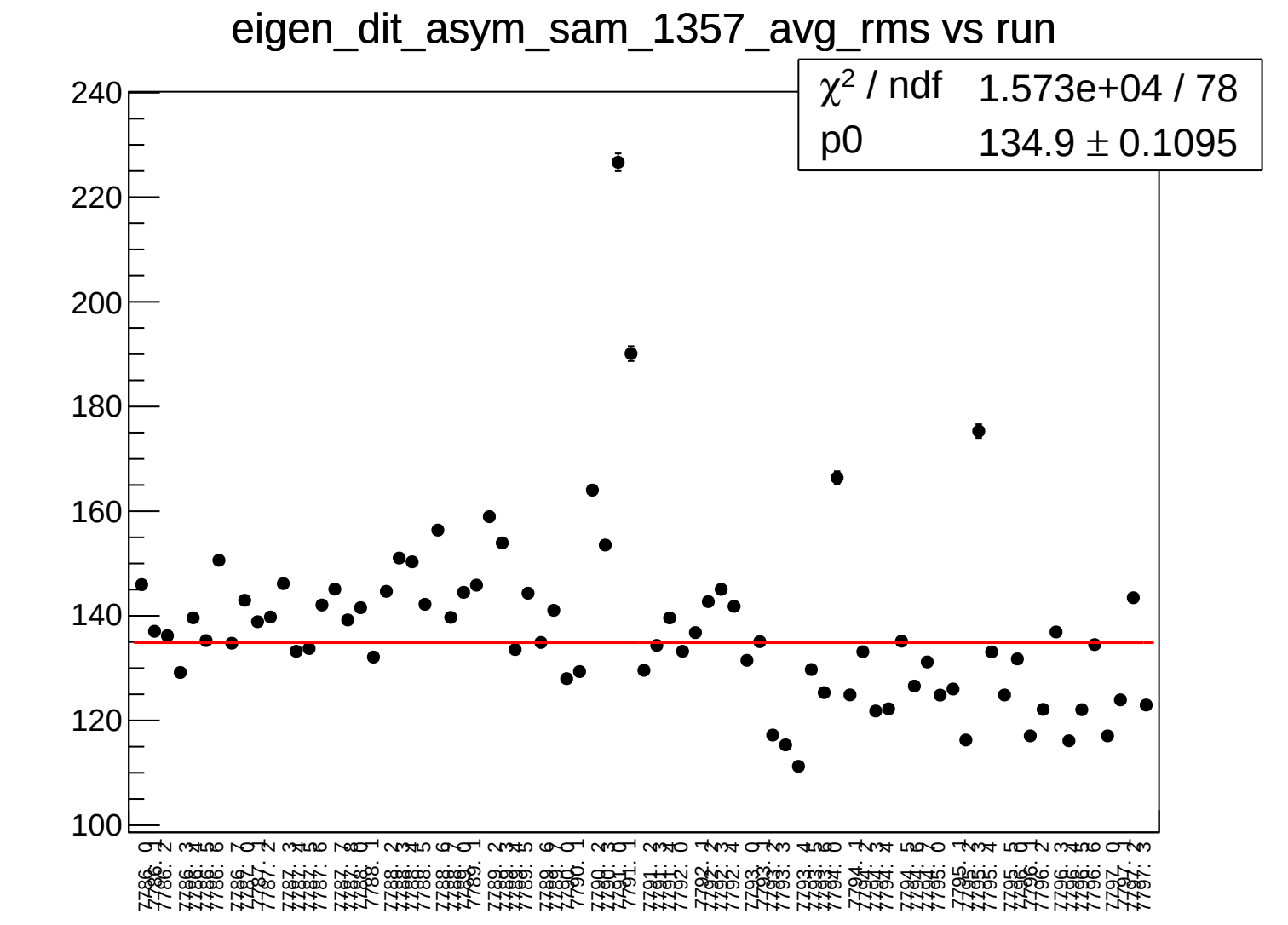

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 69.73 / 78
p0 −1937 ± 1240
pull
Entries 79
Mean −35.3
Std Dev 33.56

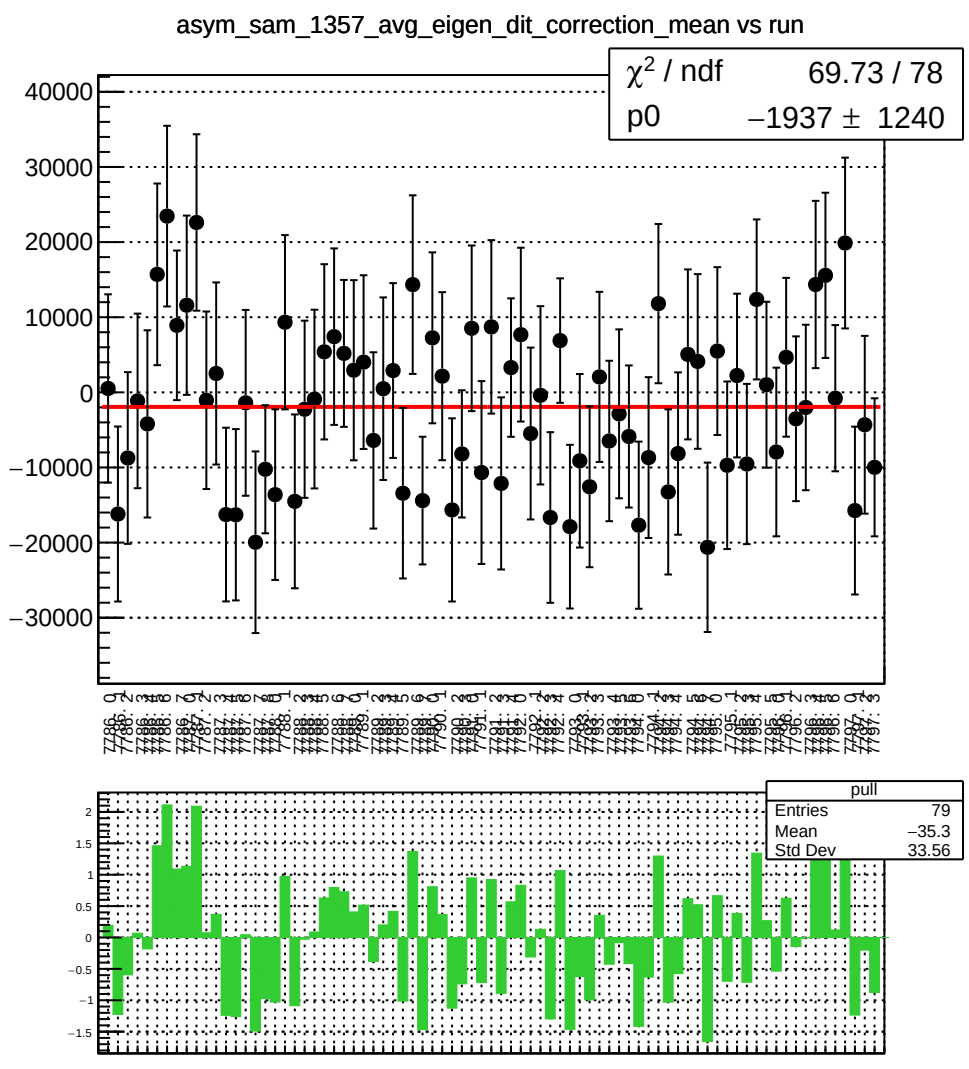

pull1D
Entries 79
Mean 0.01017
Std Dev 0.9394

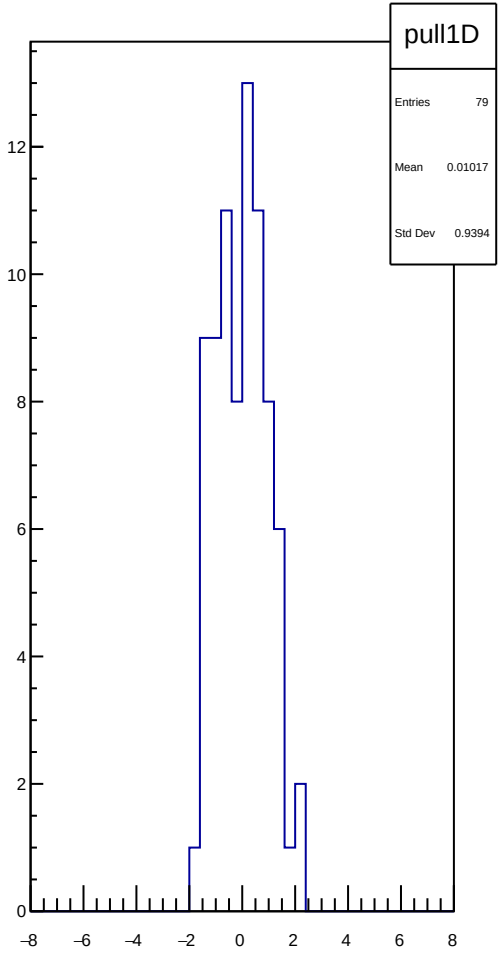

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 2173 / 78
p0 1085 ± 0.8768
1200
1150
1100
1050
1000

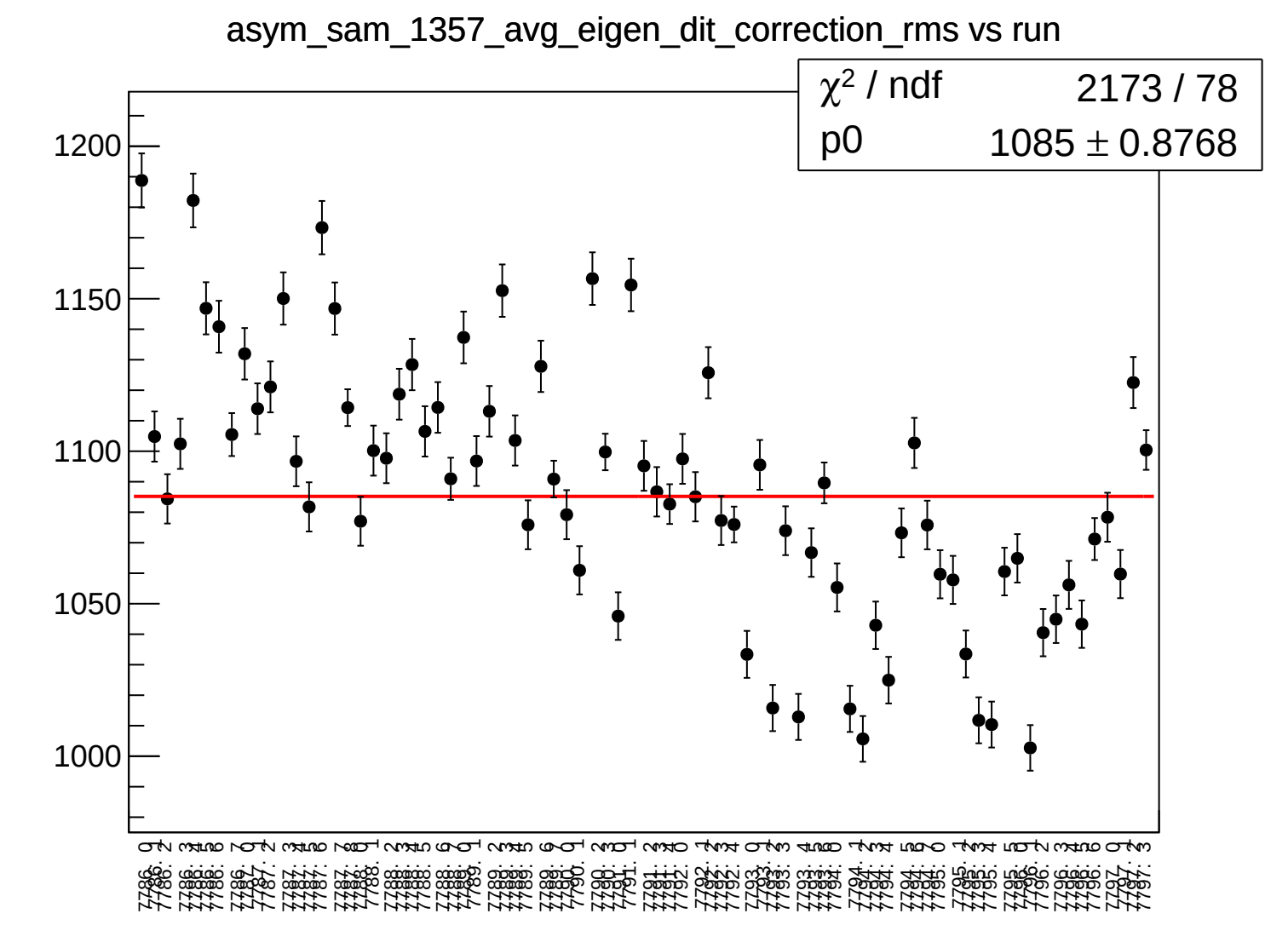

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 45.67 / 78
p0 −79.77 ± 154.9
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 386.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

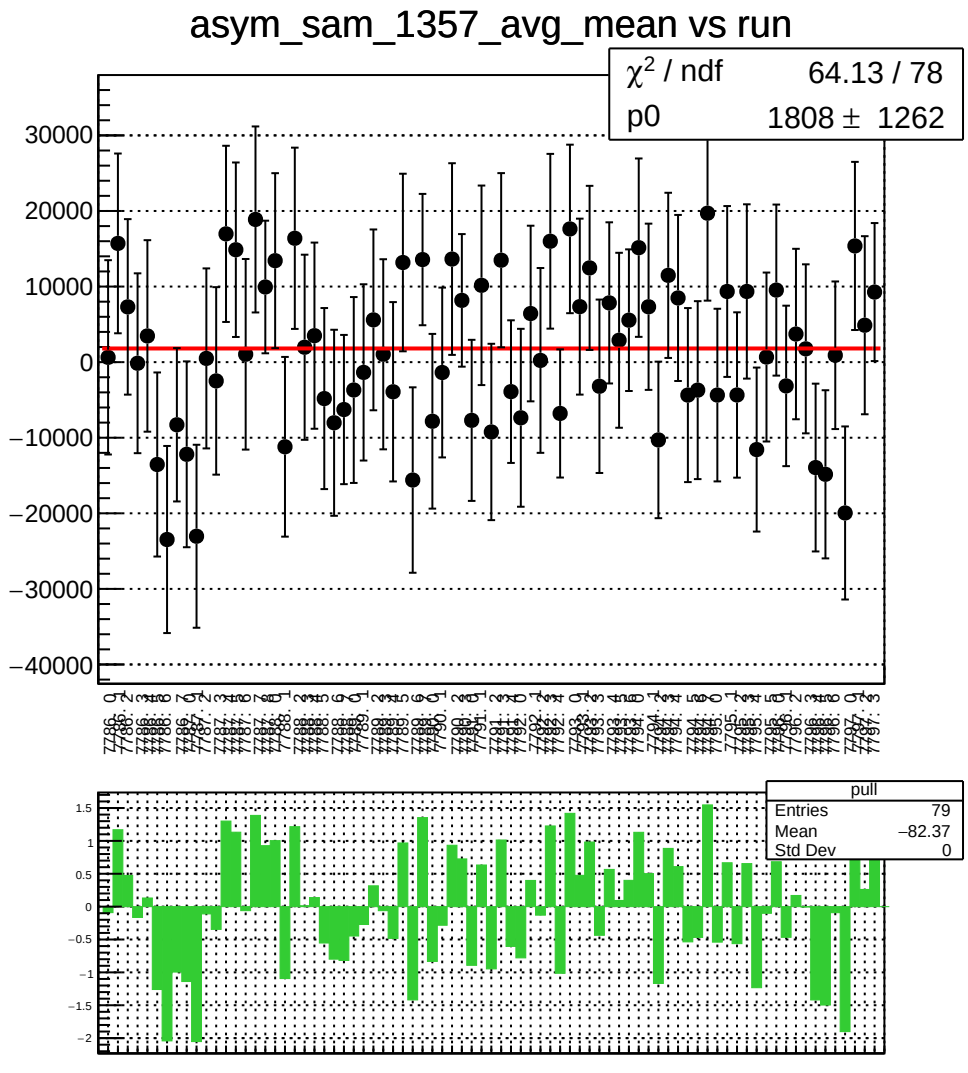

pull1D
Entries 79
Mean 0.004584
Std Dev 0.7603
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

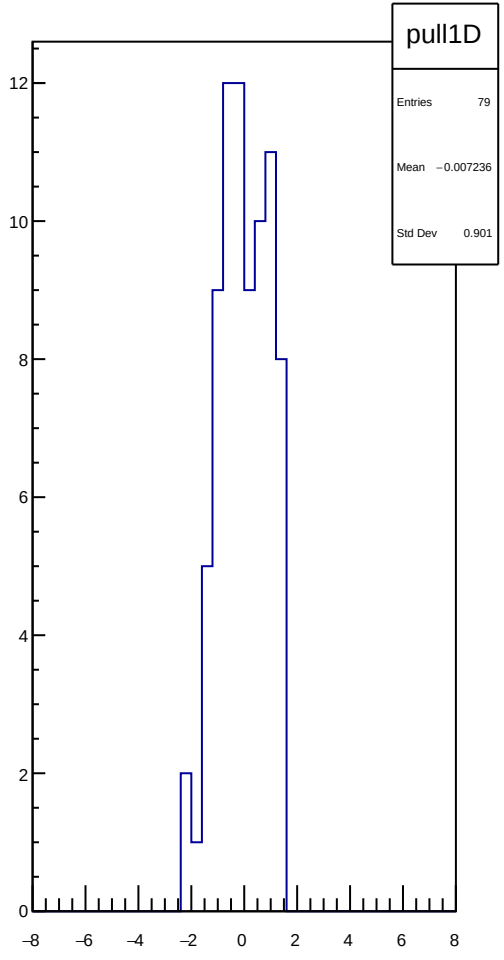

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.573e+04 / 78
p0 134.9 ± 0.1095
240
220
200
180
160
140
120
100

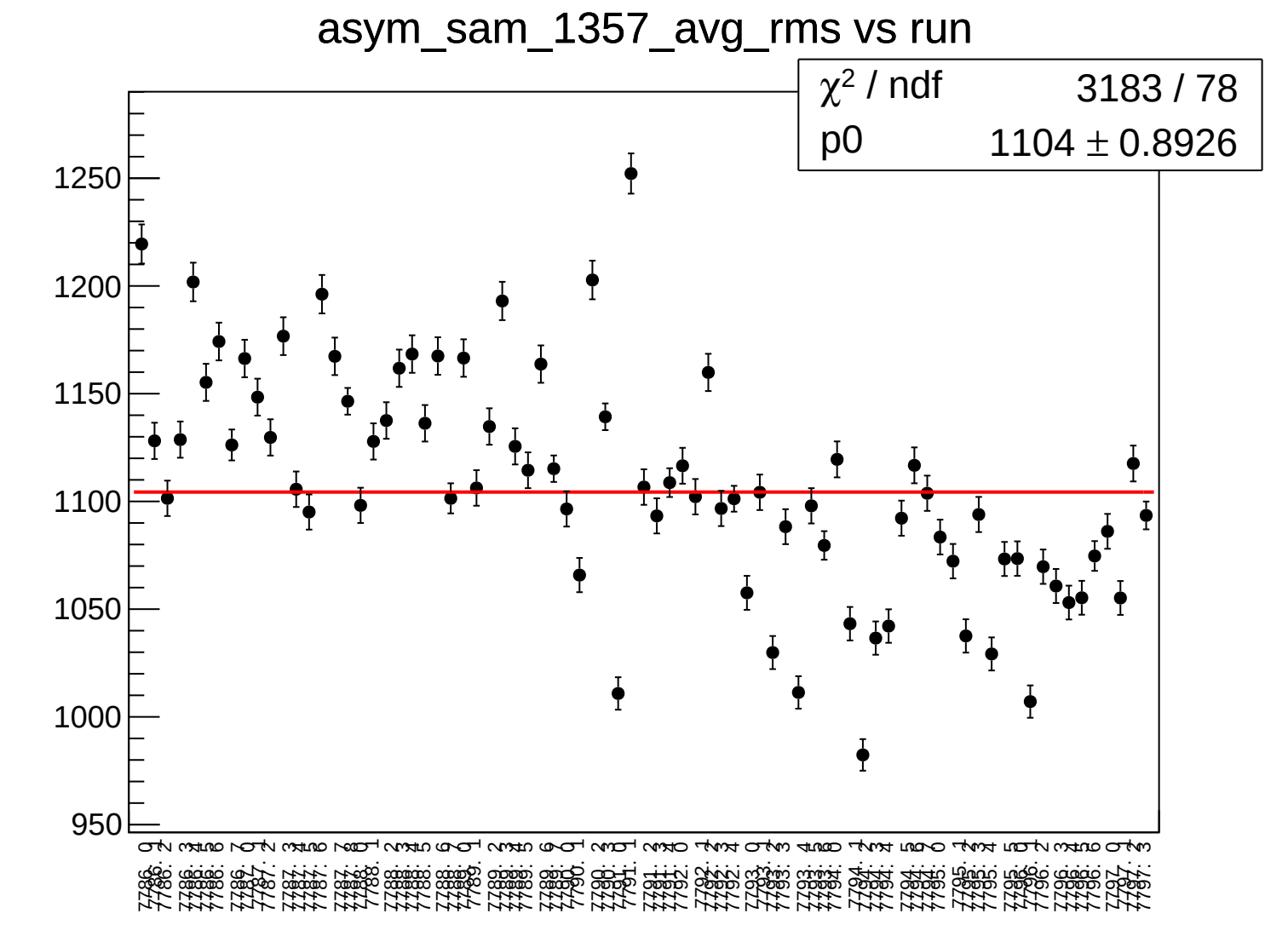

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.73 / 78
p0 −1937 ± 1240
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 79
Mean −35.3
Std Dev 33.56
2
1.5
1
0.5
0
−0.5
−1
−1.5

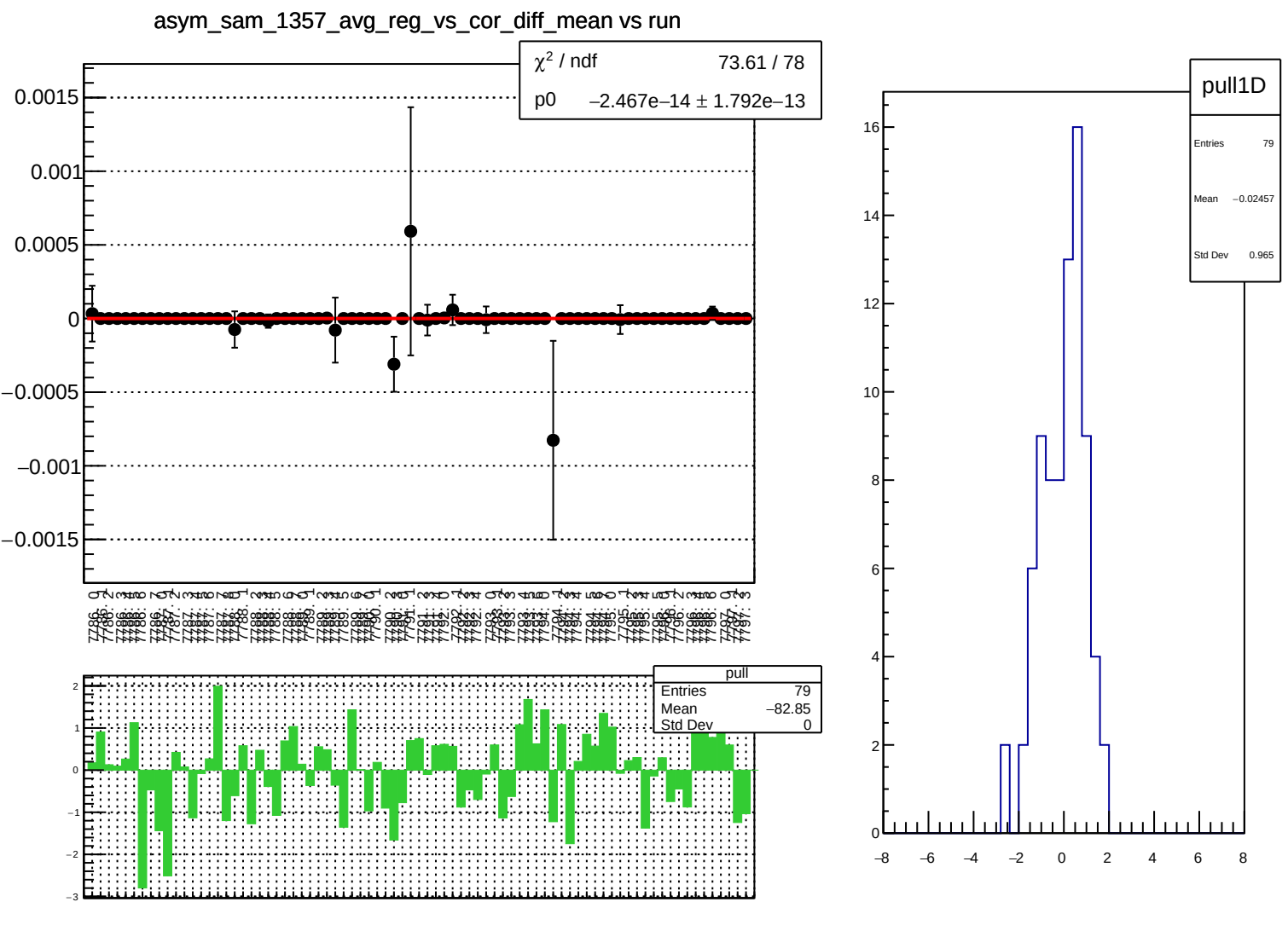

pull1D
Entries 79
Mean 0.01017
Std Dev 0.9394
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

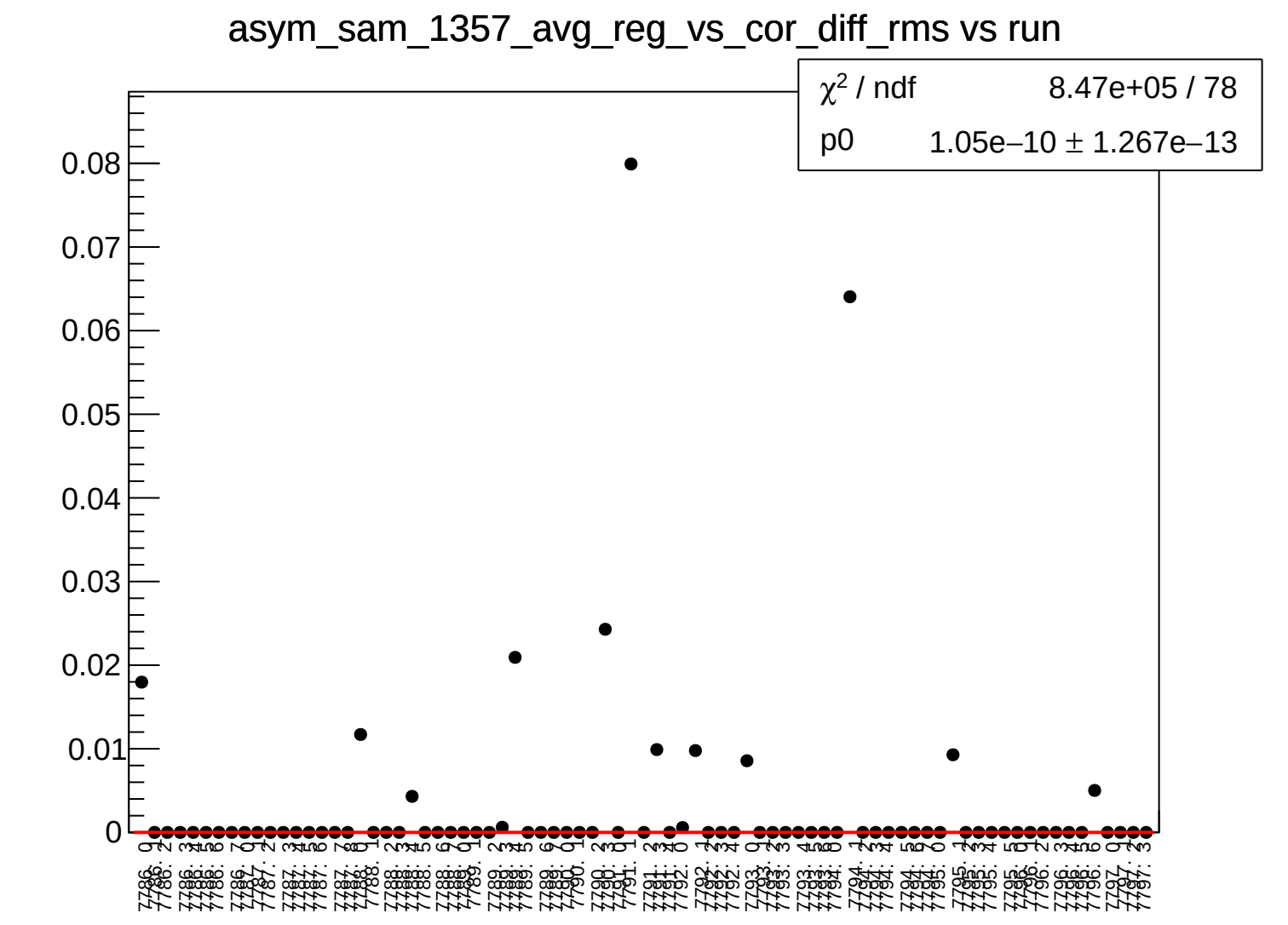

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 2173 / 78
p0 1085 ± 0.8768
1200
1150
1100
1050
1000

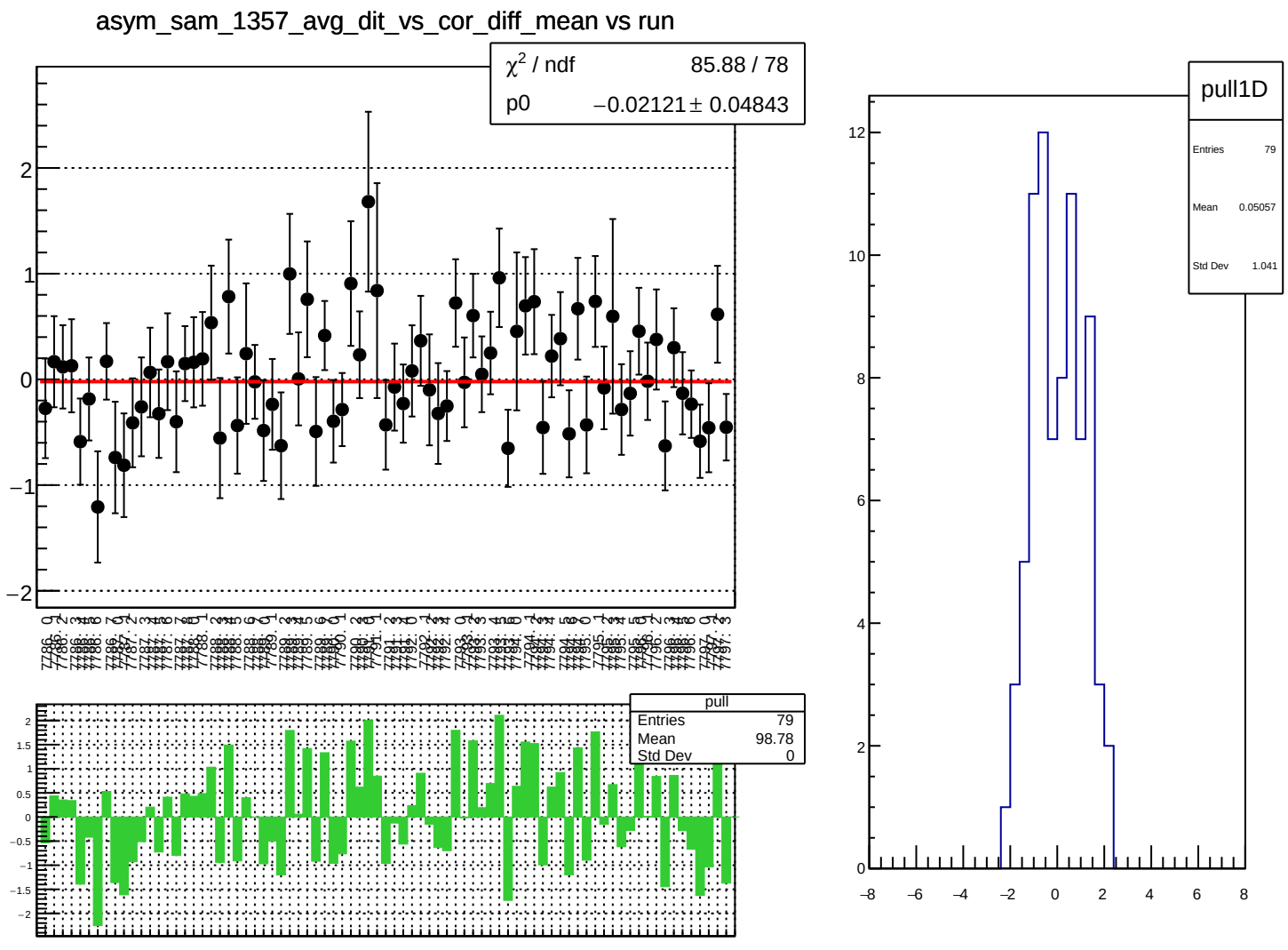

asym_sam_1357_avg_mean vs run
χ² / ndf 64.13 / 78
p0 1808 ± 1262
pull
Entries 79
Mean −82.37
Std Dev 0

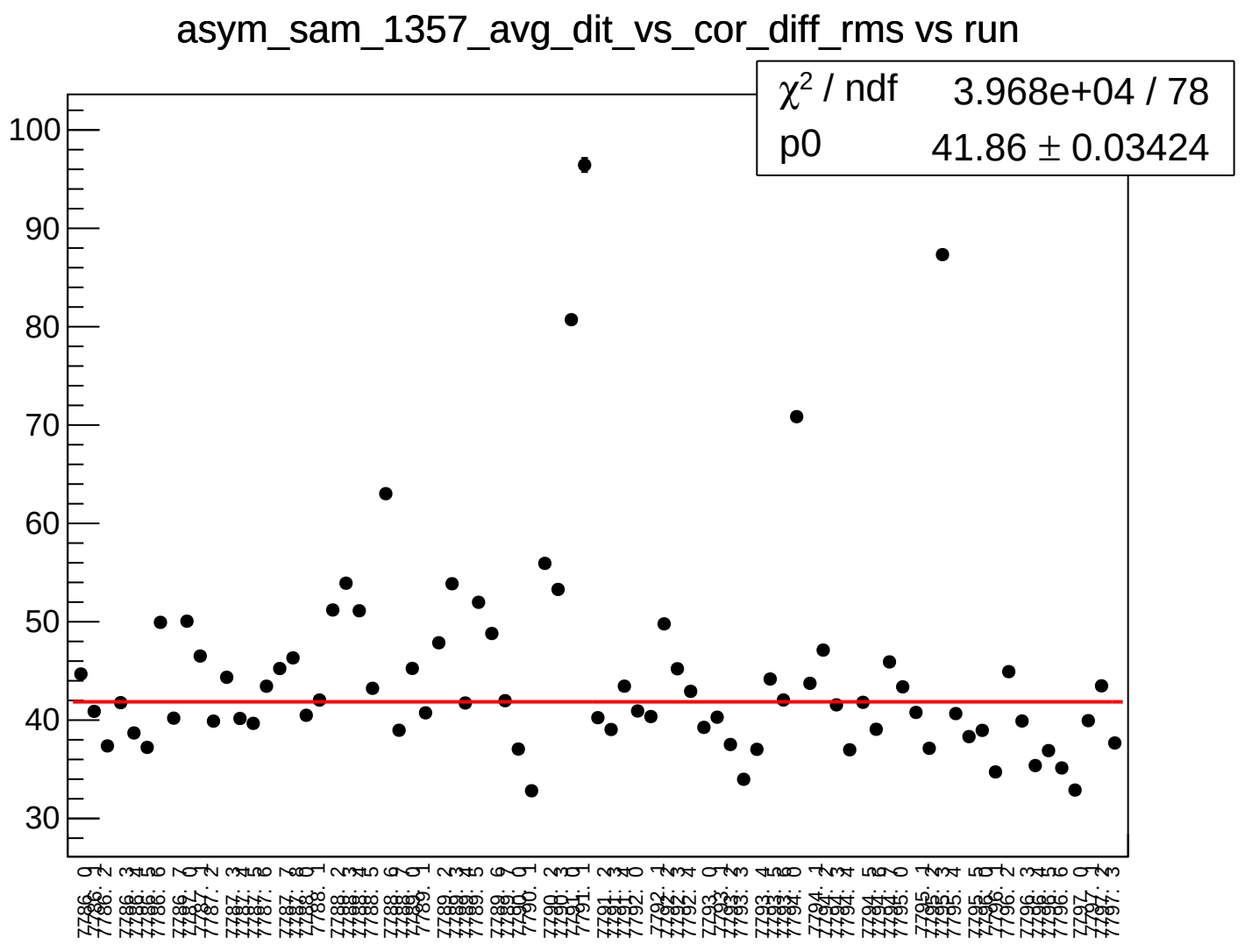

pull1D
Entries 79
Mean −0.007236
Std Dev 0.901

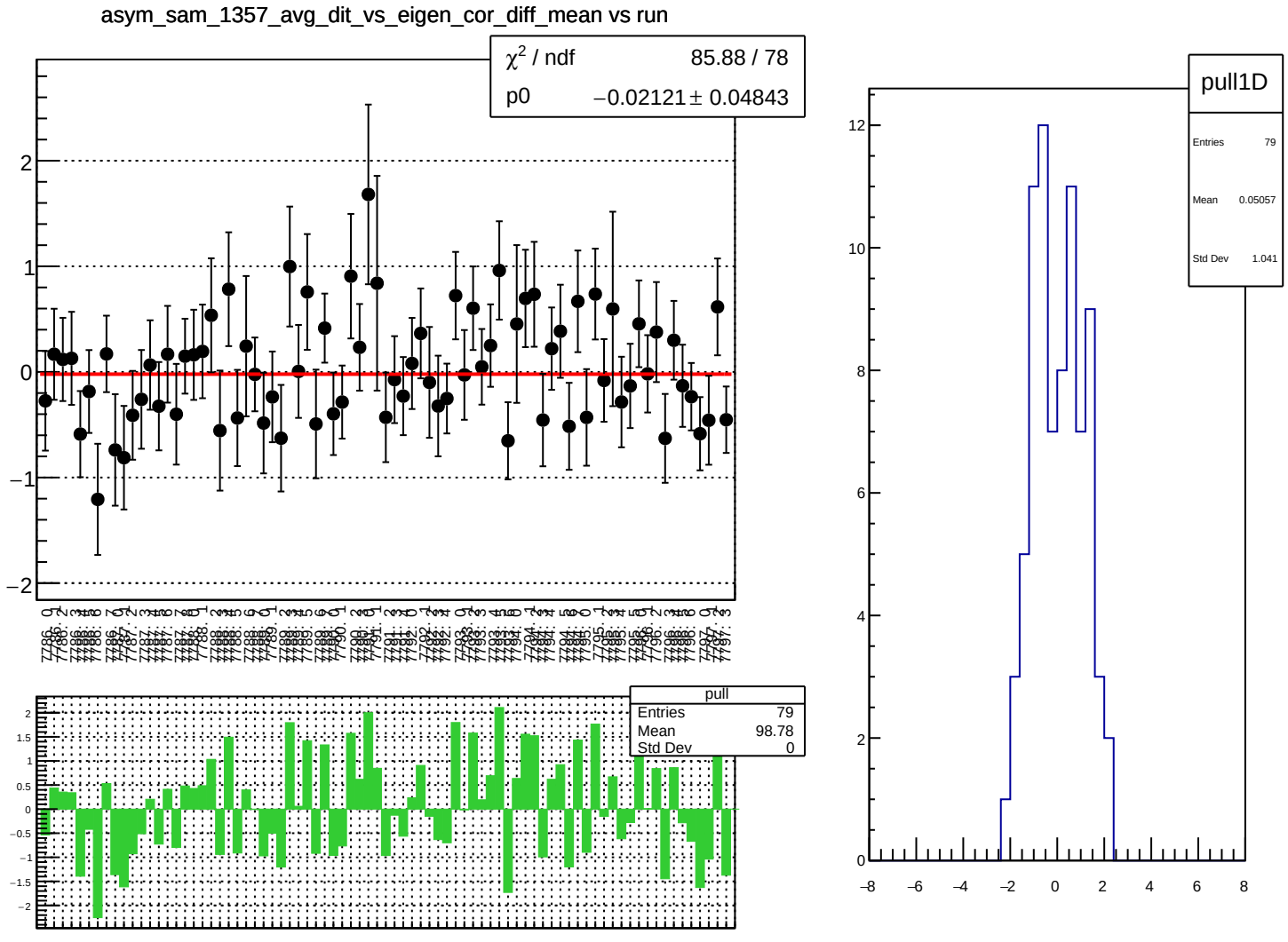

asym_sam_1357_avg_rms vs run
χ^2 / ndf 3183 / 78
p0 1104 ± 0.8926
1250
1200
1150
1100
1050
1000
950

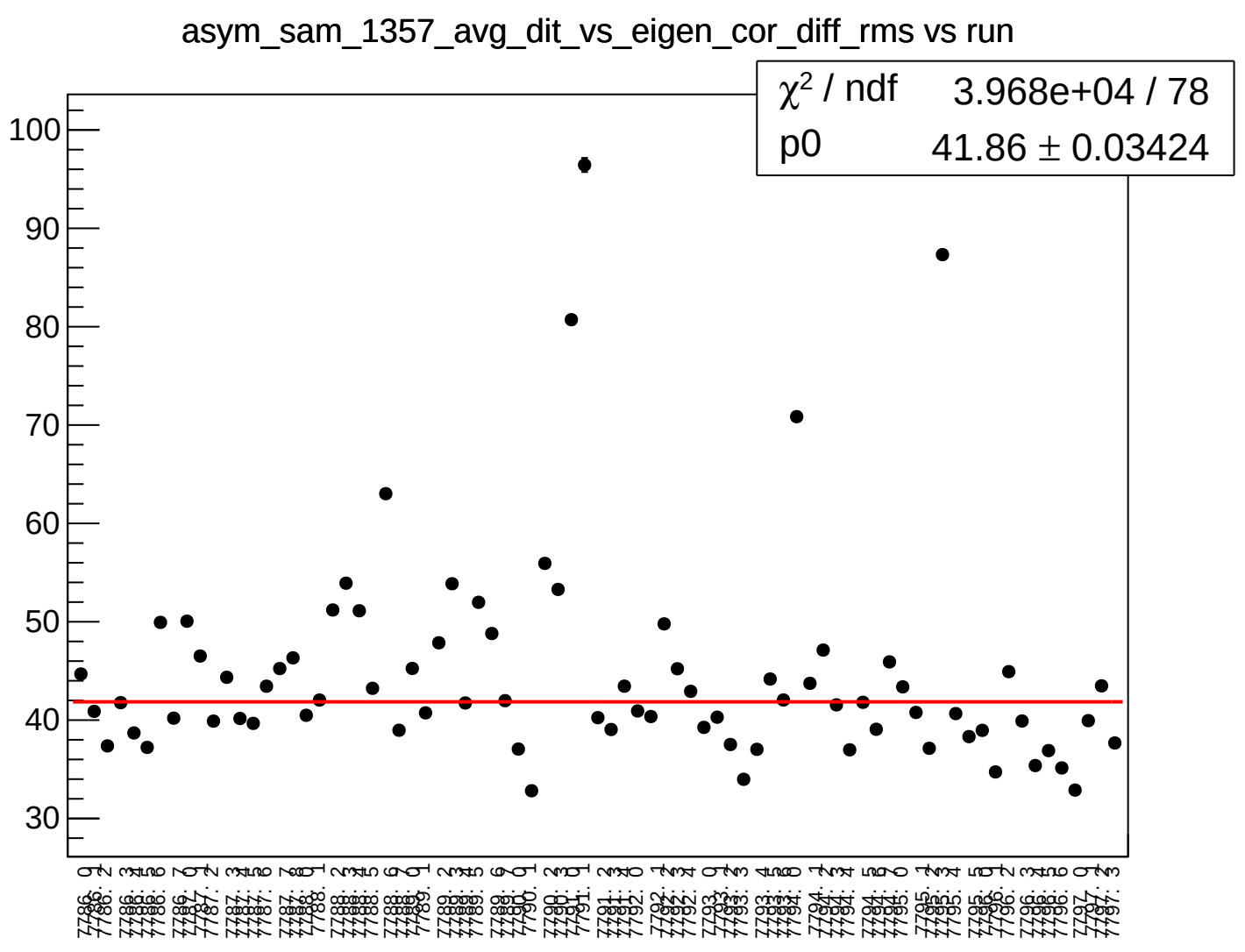

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.61 / 78
p0 −2.467e−14 ± 1.792e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 79
Mean −82.85
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 79
Mean −0.02457
Std Dev 0.965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

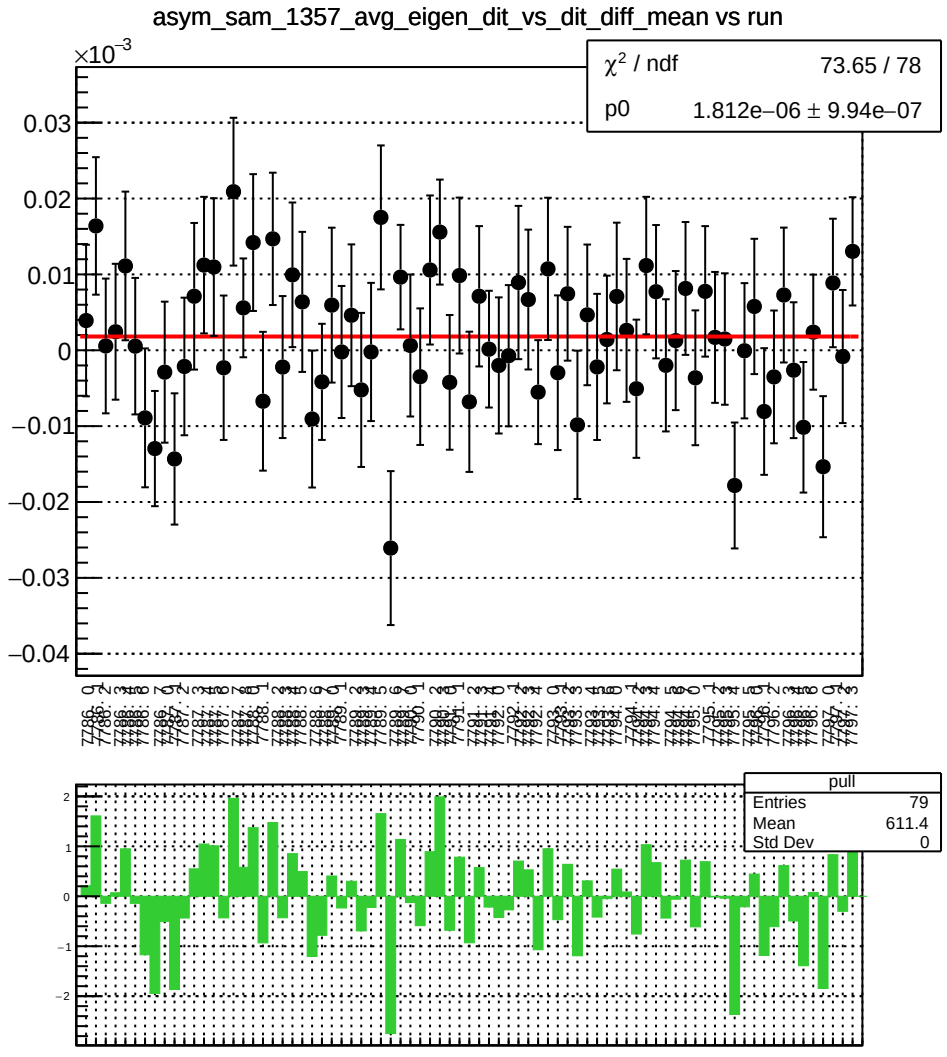

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.47e+05 / 78
p0 1.05e−10 ± 1.267e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

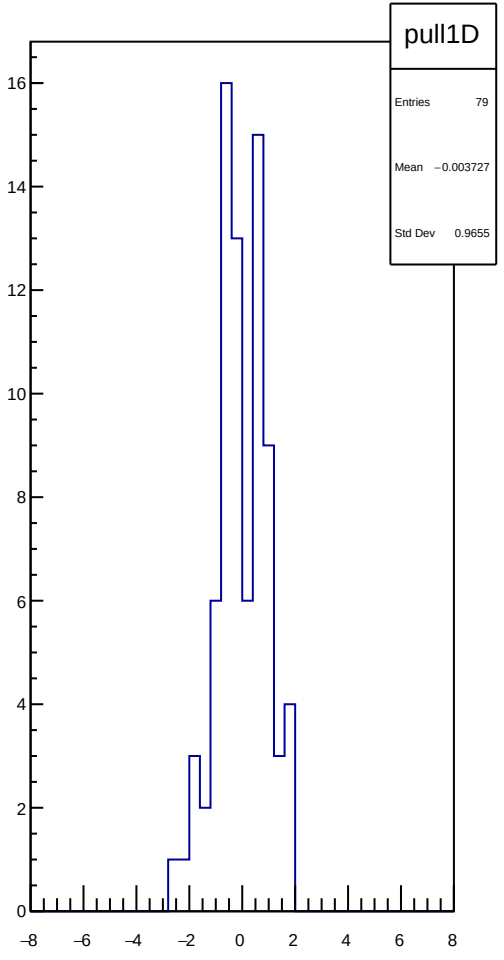

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.88 / 78
p0 −0.02121 ± 0.04843
pull
Entries 79
Mean 98.78
Std Dev 0
pull1D
Entries 79
Mean 0.05057
Std Dev 1.041

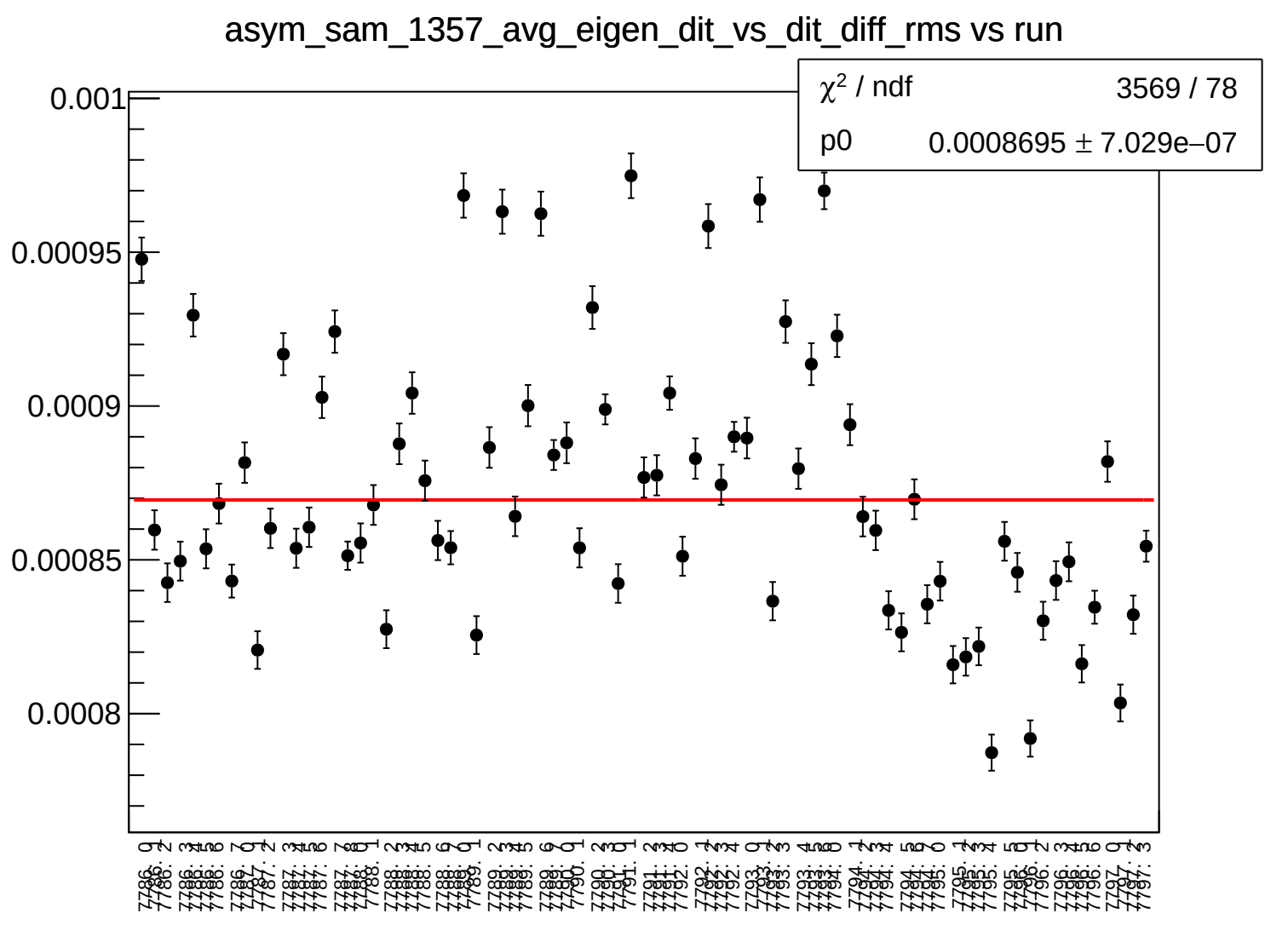

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.968e+04 / 78
p0 41.86 ± 0.03424
100
90
80
70
60
50
40
30

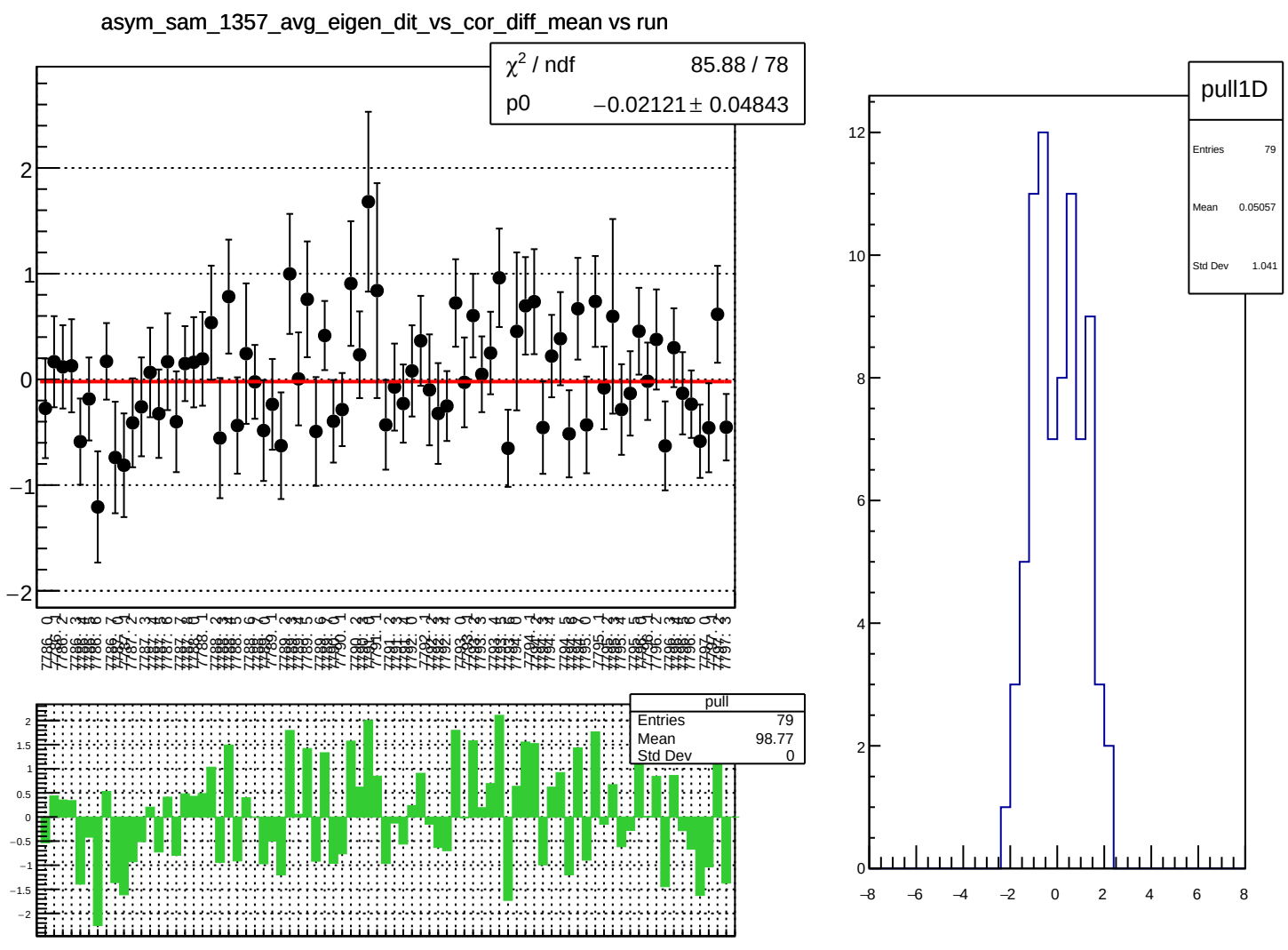

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.88 / 78
p0 −0.02121 ± 0.04843
pull
Entries 79
Mean 98.78
Std Dev 0
pull1D
Entries 79
Mean 0.05057
Std Dev 1.041

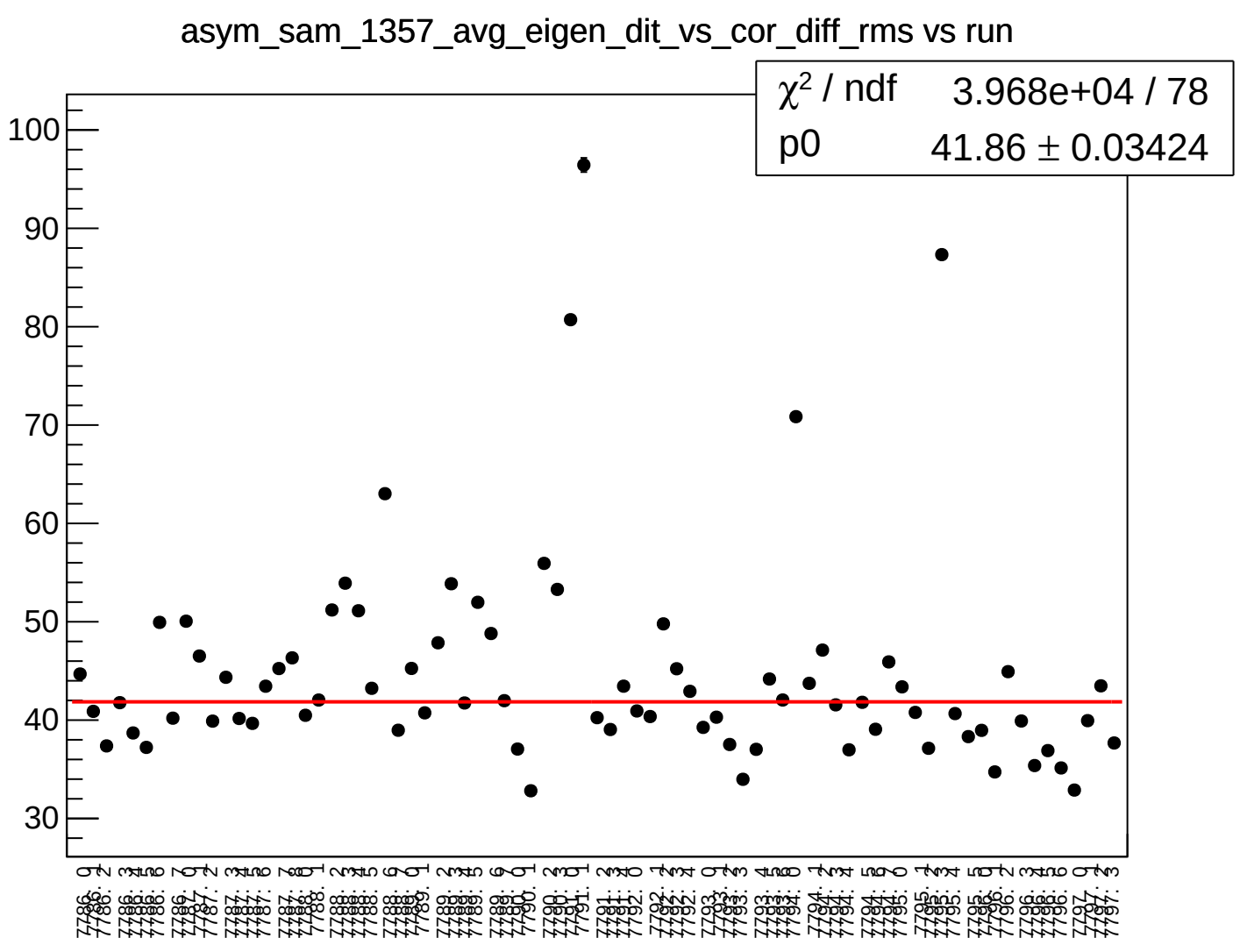

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.968e+04 / 78
p0 41.86 ± 0.03424
100
90
80
70
60
50
40
30

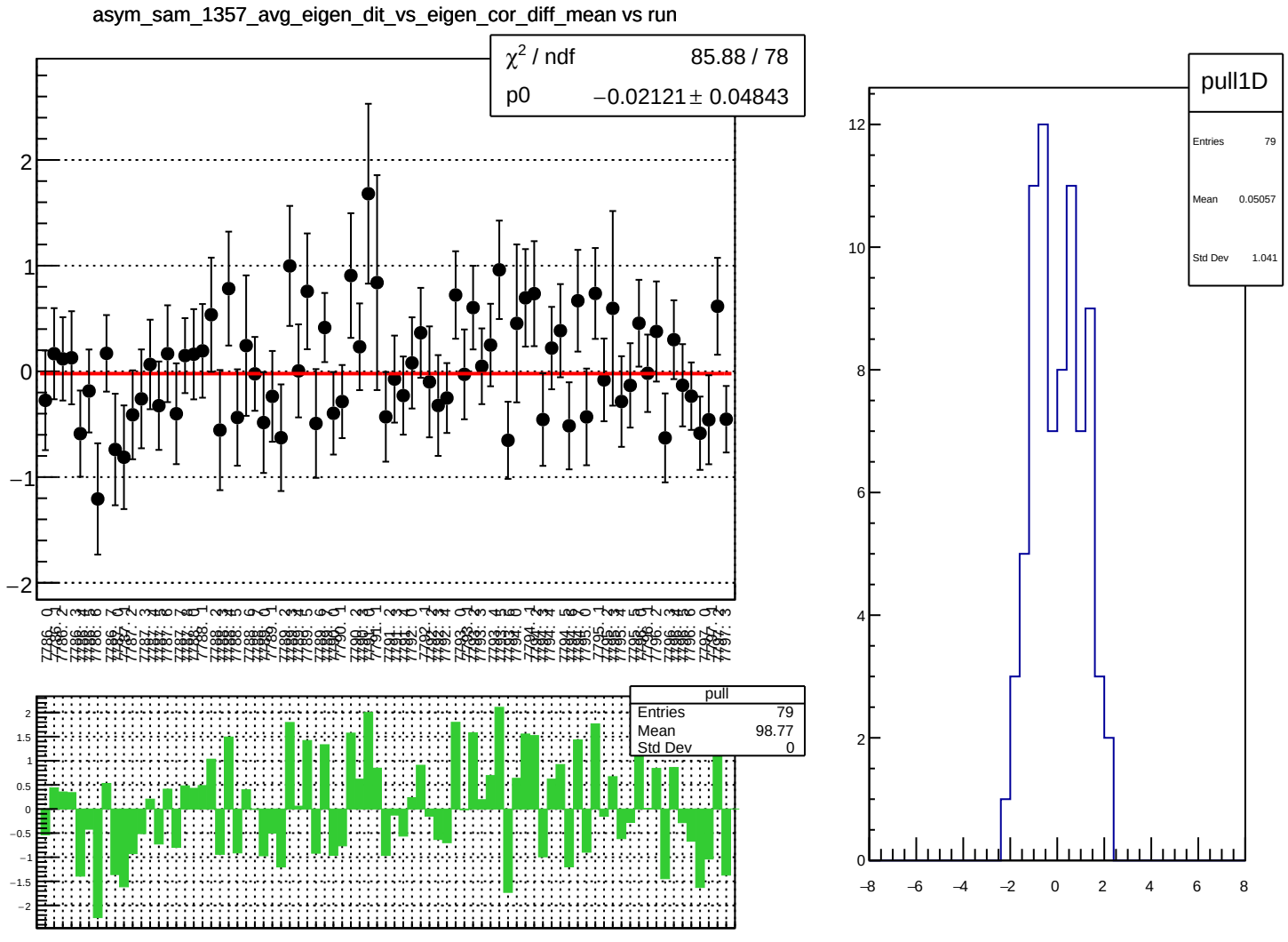

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.65 / 78
p0 1.812e−06 ± 9.94e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 79
Mean 611.4
Std Dev 0
2
1
0
−1
−2

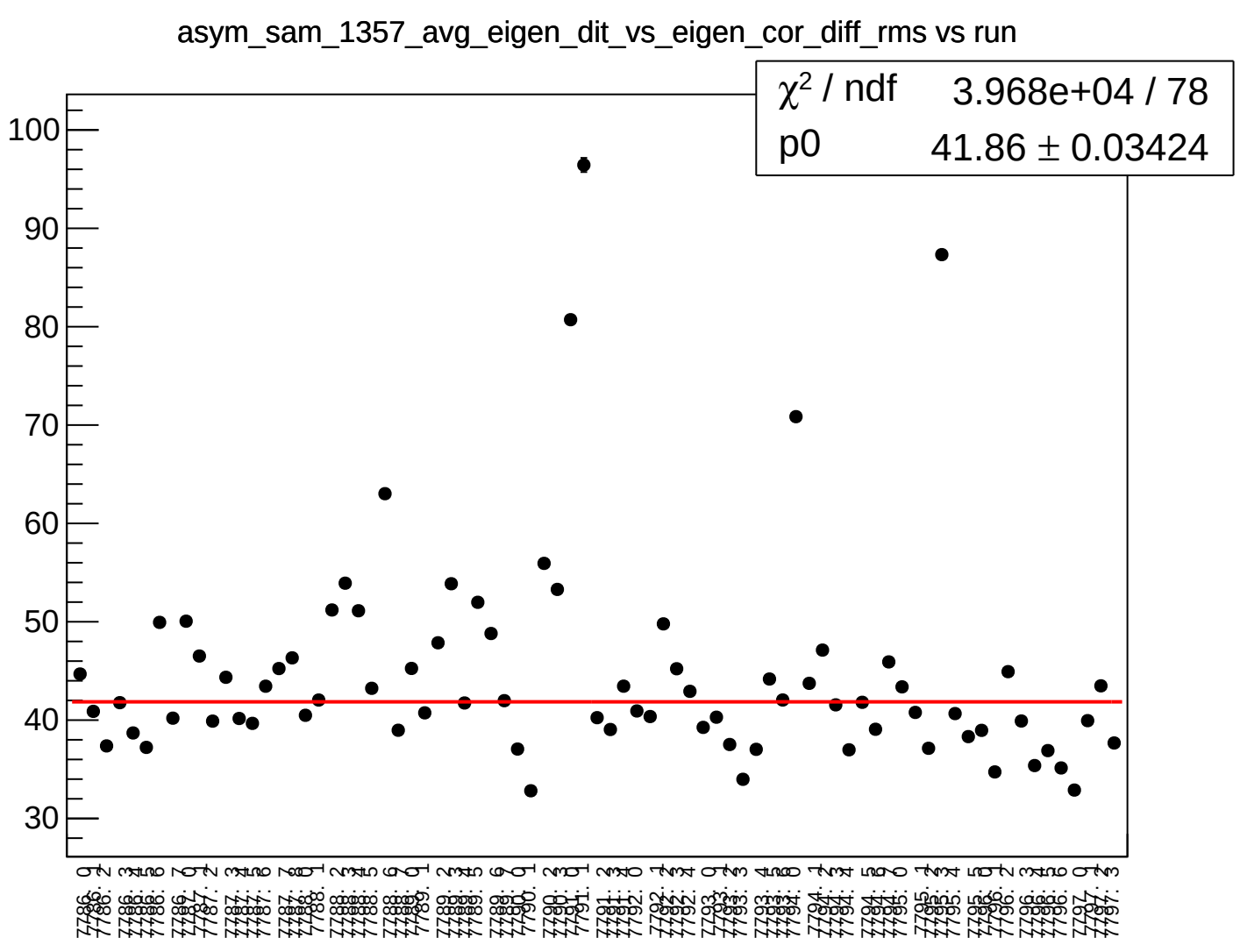

pull1D
Entries 79
Mean −0.003727
Std Dev 0.9655
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

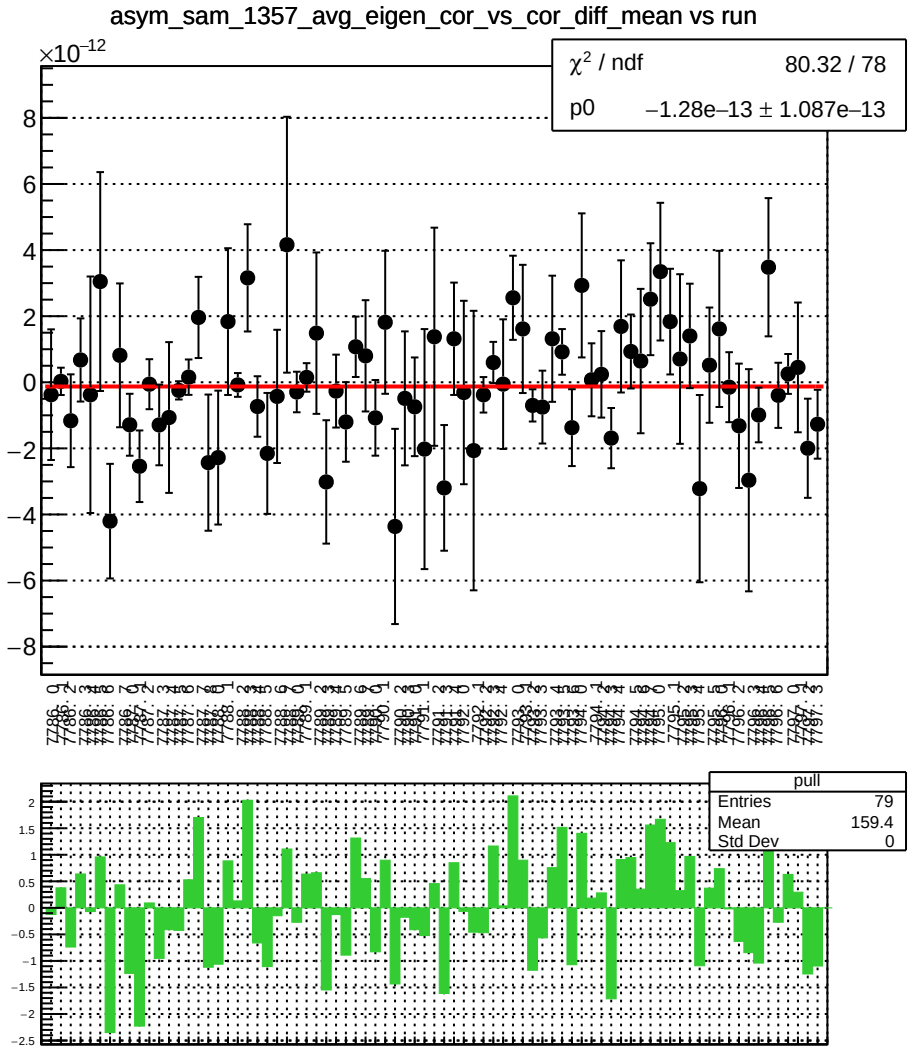

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3569 / 78
p0 0.0008695 ± 7.029e−07
0.001
0.00095
0.0009
0.00085
0.0008

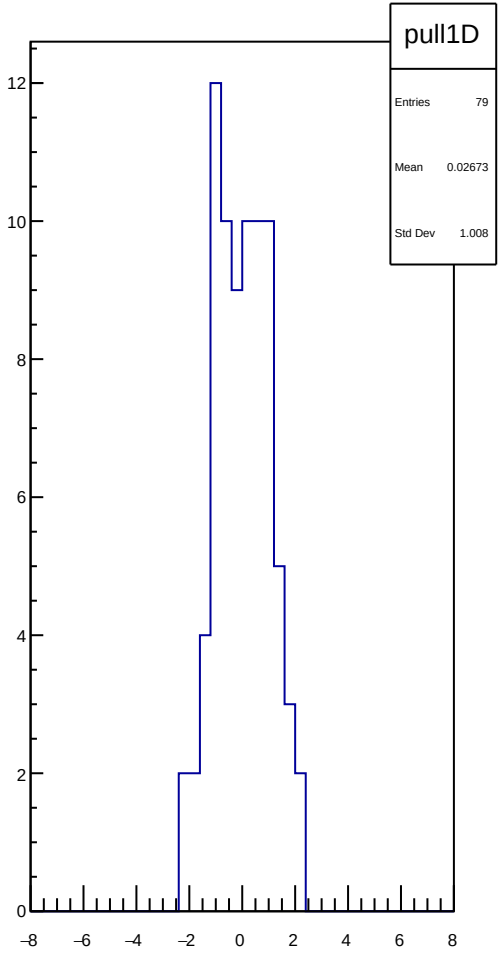

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.88 / 78
p0 −0.02121 ± 0.04843
pull
Entries 79
Mean 98.77
Std Dev 0
pull1D
Entries 79
Mean 0.05057
Std Dev 1.041

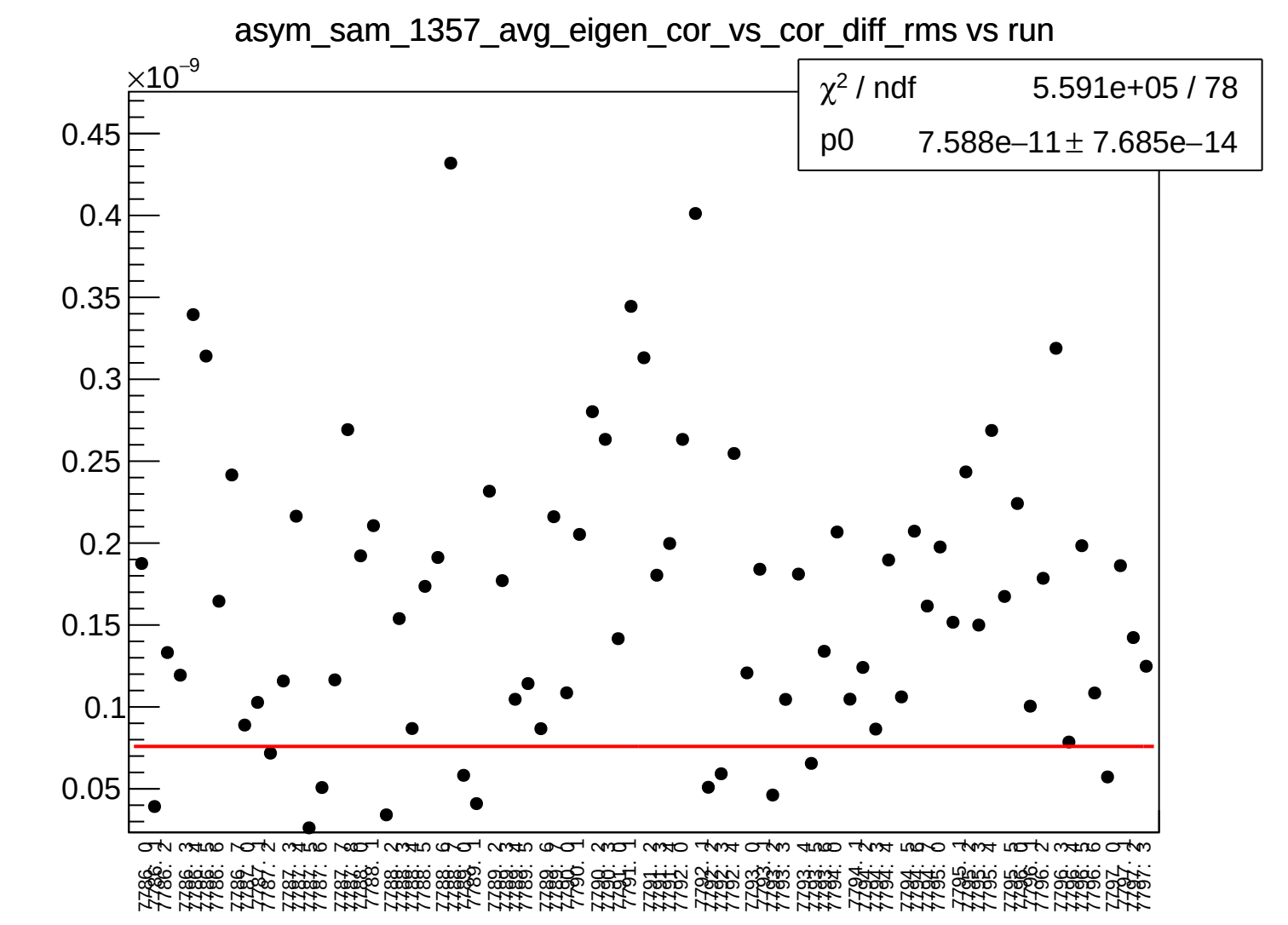

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.968e+04 / 78
p0 41.86 ± 0.03424
100
90
80
70
60
50
40
30

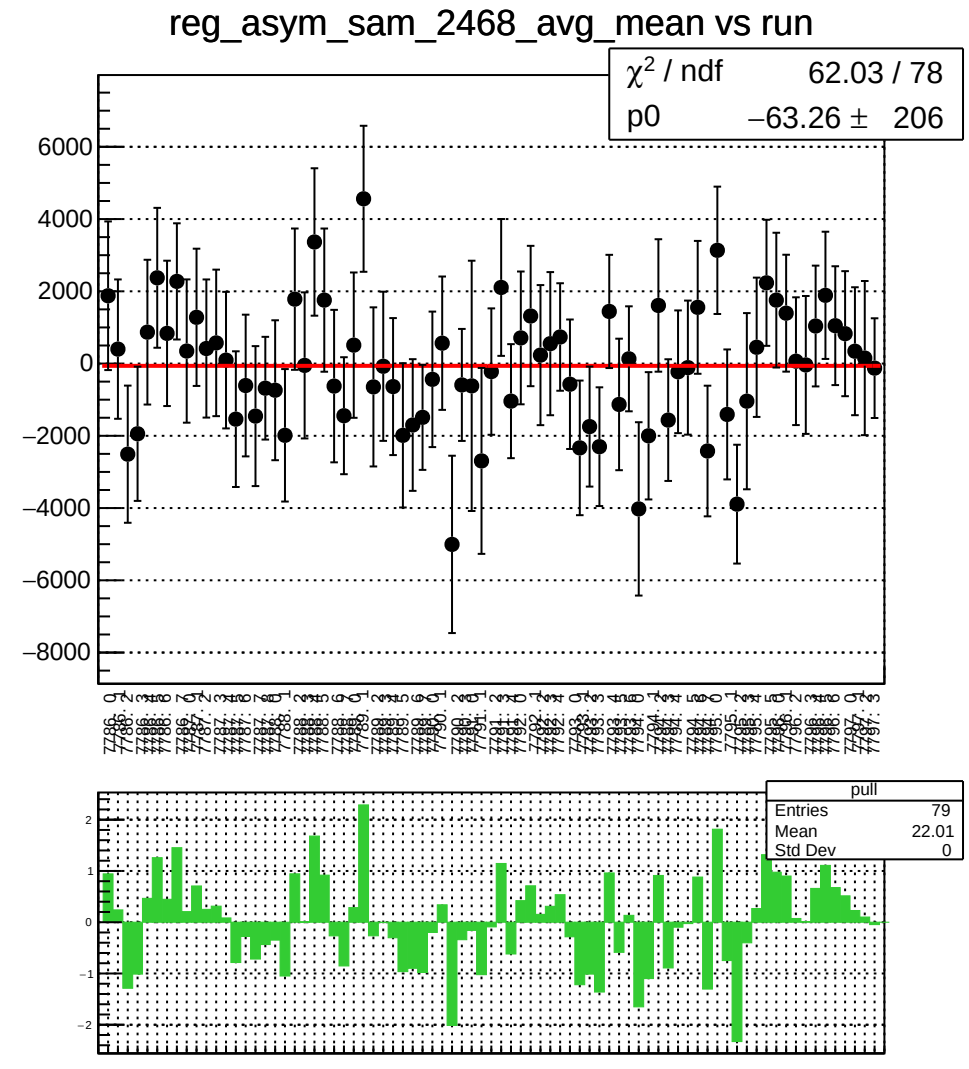

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.88 / 78
p0 −0.02121 ± 0.04843
pull
Entries 79
Mean 98.77
Std Dev 0
pull1D
Entries 79
Mean 0.05057
Std Dev 1.041

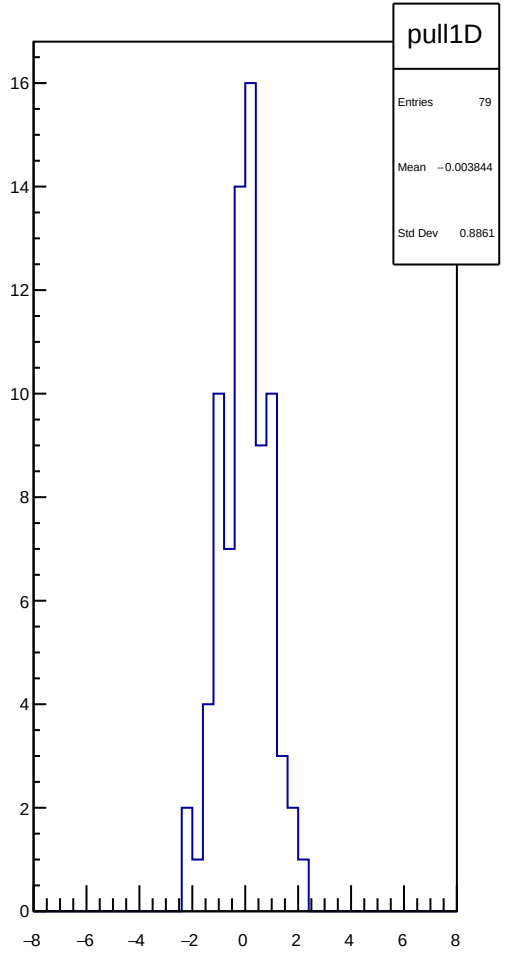

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.968e+04 / 78
p0 41.86 ± 0.03424
100
90
80
70
60
50
40
30

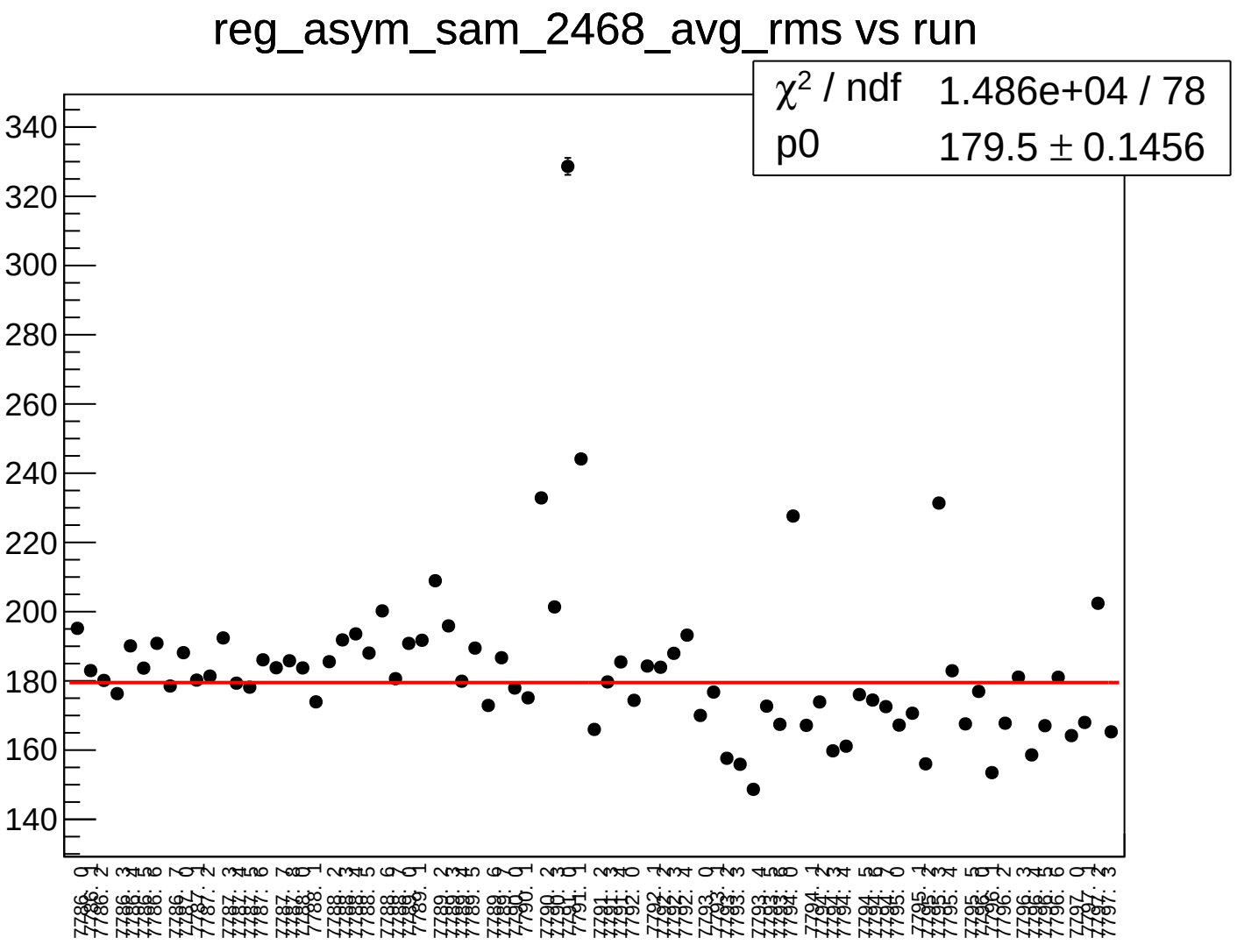

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.32 / 78
p0 −1.28e−13 ± 1.087e−13
pull
Entries 79
Mean 159.4
Std Dev 0

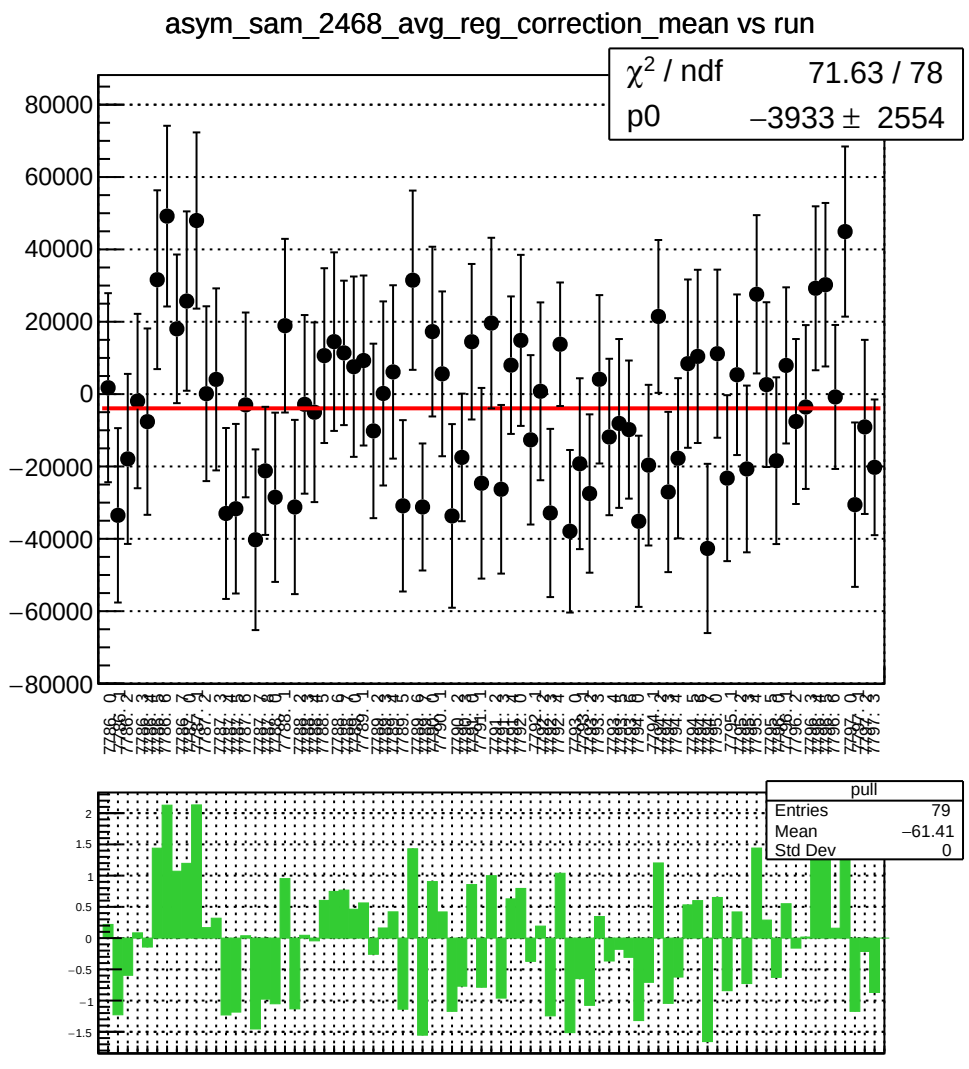

pull1D
Entries 79
Mean 0.02673
Std Dev 1.008

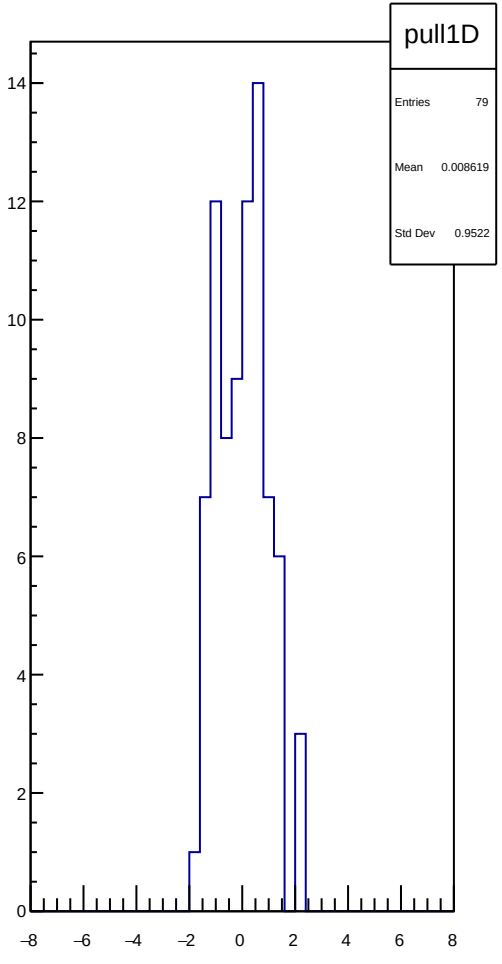

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.591e+05 / 78
p0 7.588e−11 ± 7.685e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

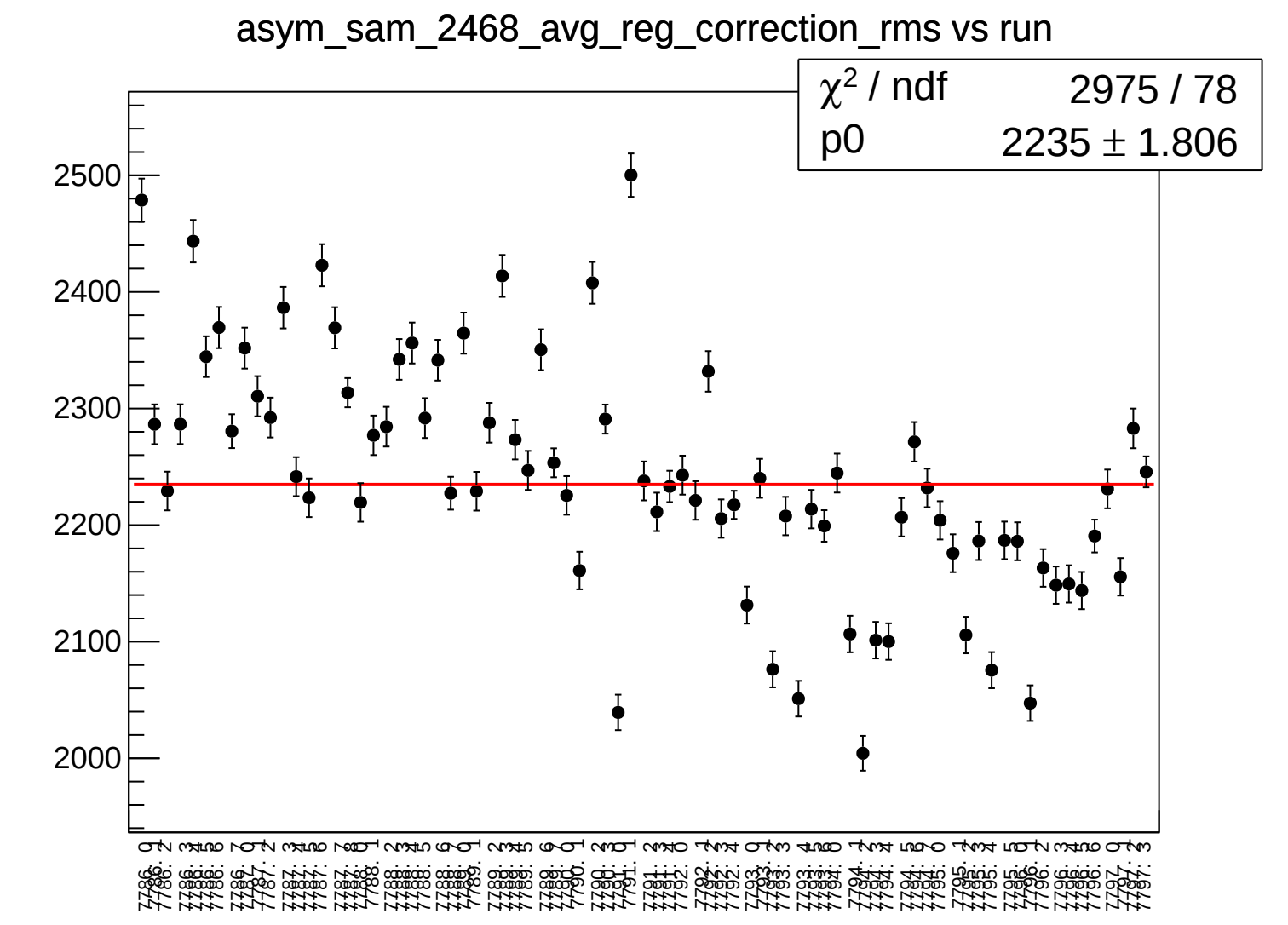

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 62.03 / 78
p0 −63.26 ± 206
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 79
Mean 22.01
Std Dev 0
2
1
0
−1
−2

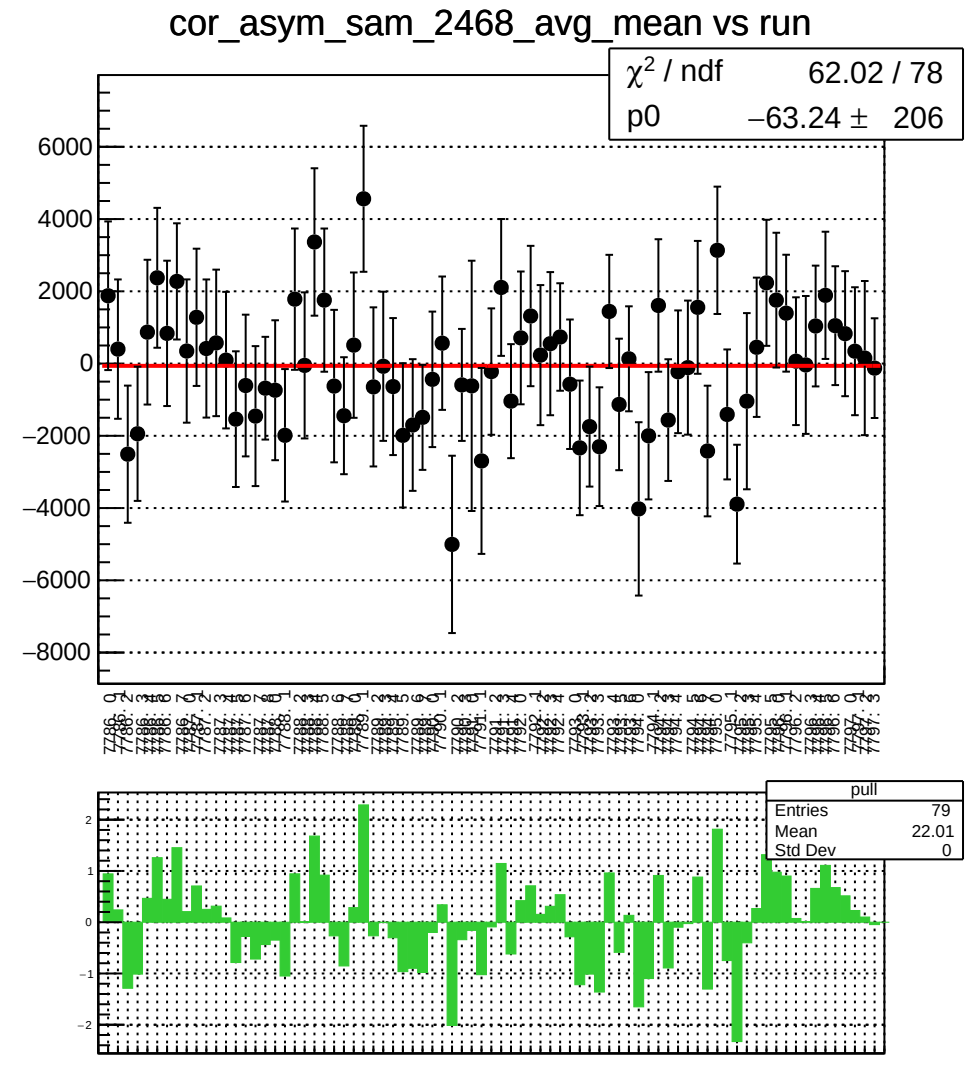

pull1D
Entries 79
Mean −0.003844
Std Dev 0.8861
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

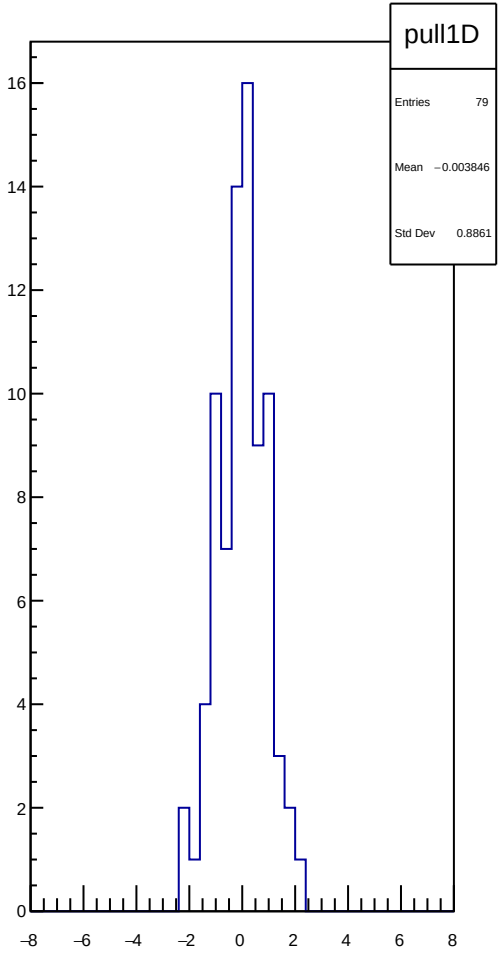

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.486e+04 / 78
p0 179.5 ± 0.1456
340
320
300
280
260
240
220
200
180
160
140

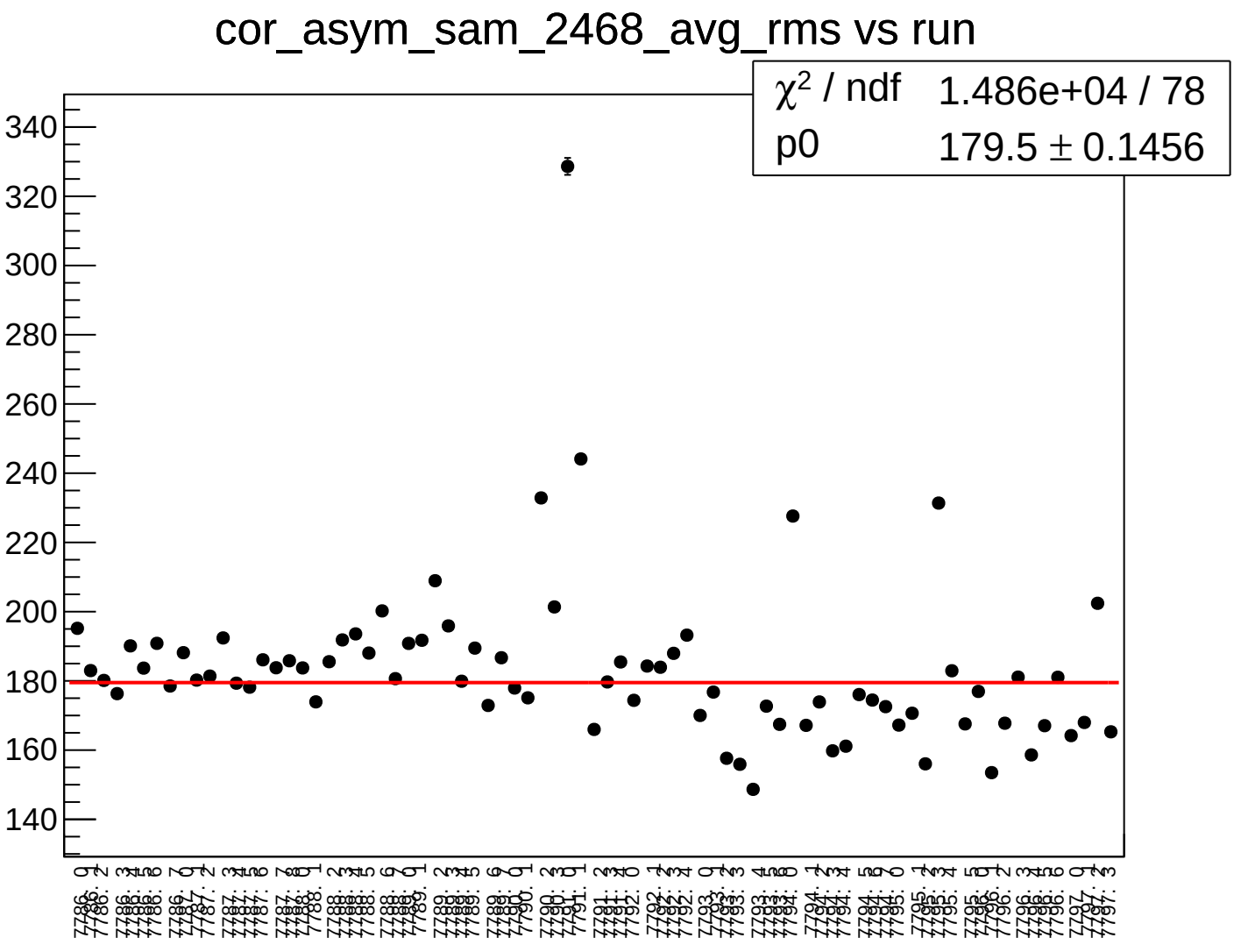

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 71.63 / 78
p0 −3933 ± 2554
pull
Entries 79
Mean −61.41
Std Dev 0

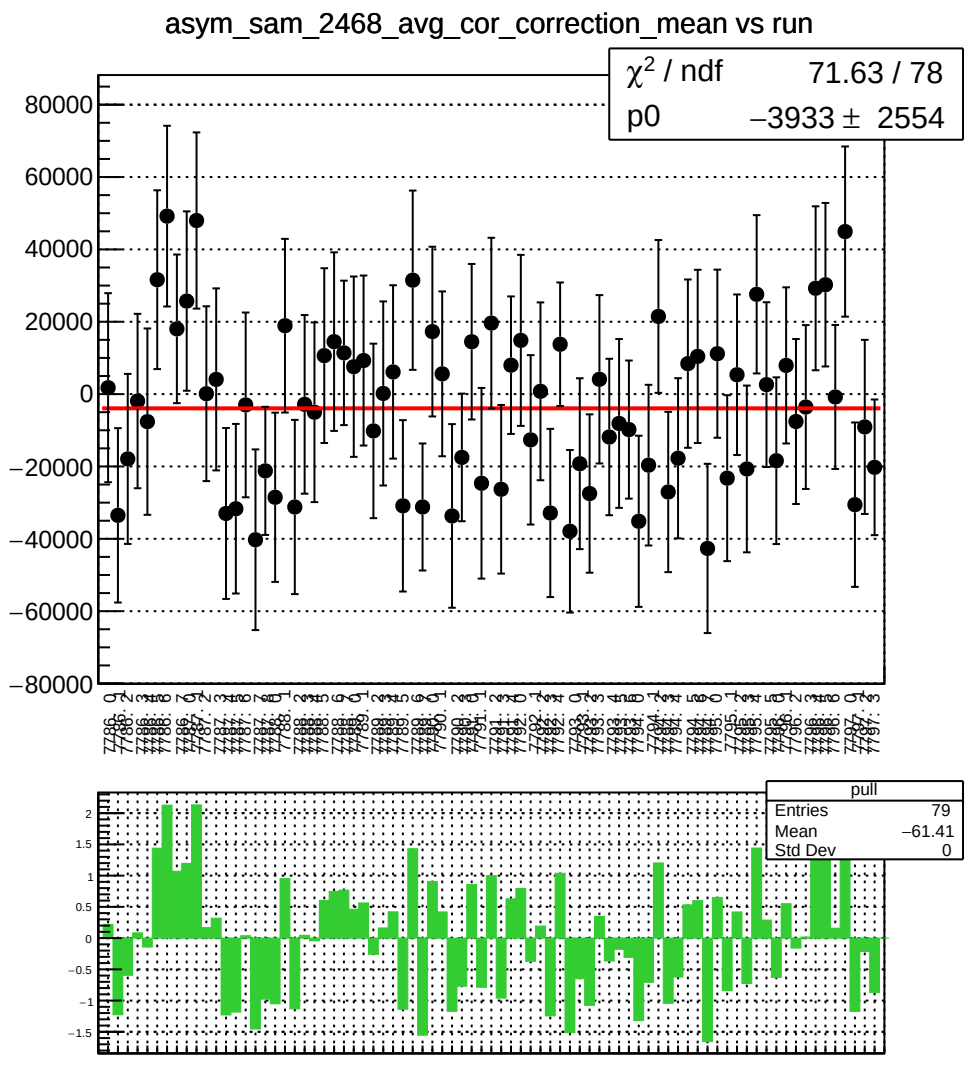

pull1D
Entries 79
Mean 0.008619
Std Dev 0.9522

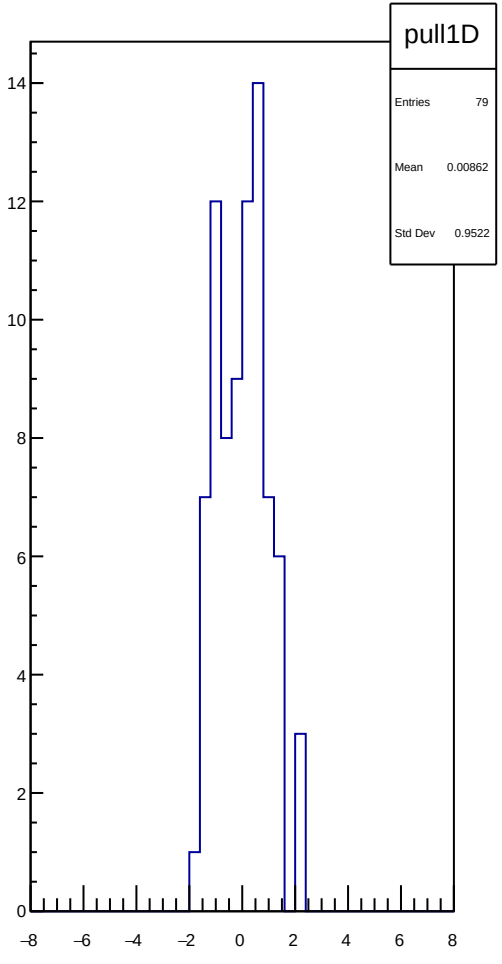

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 2975 / 78
p0 2235 ± 1.806
2500
2400
2300
2200
2100
2000

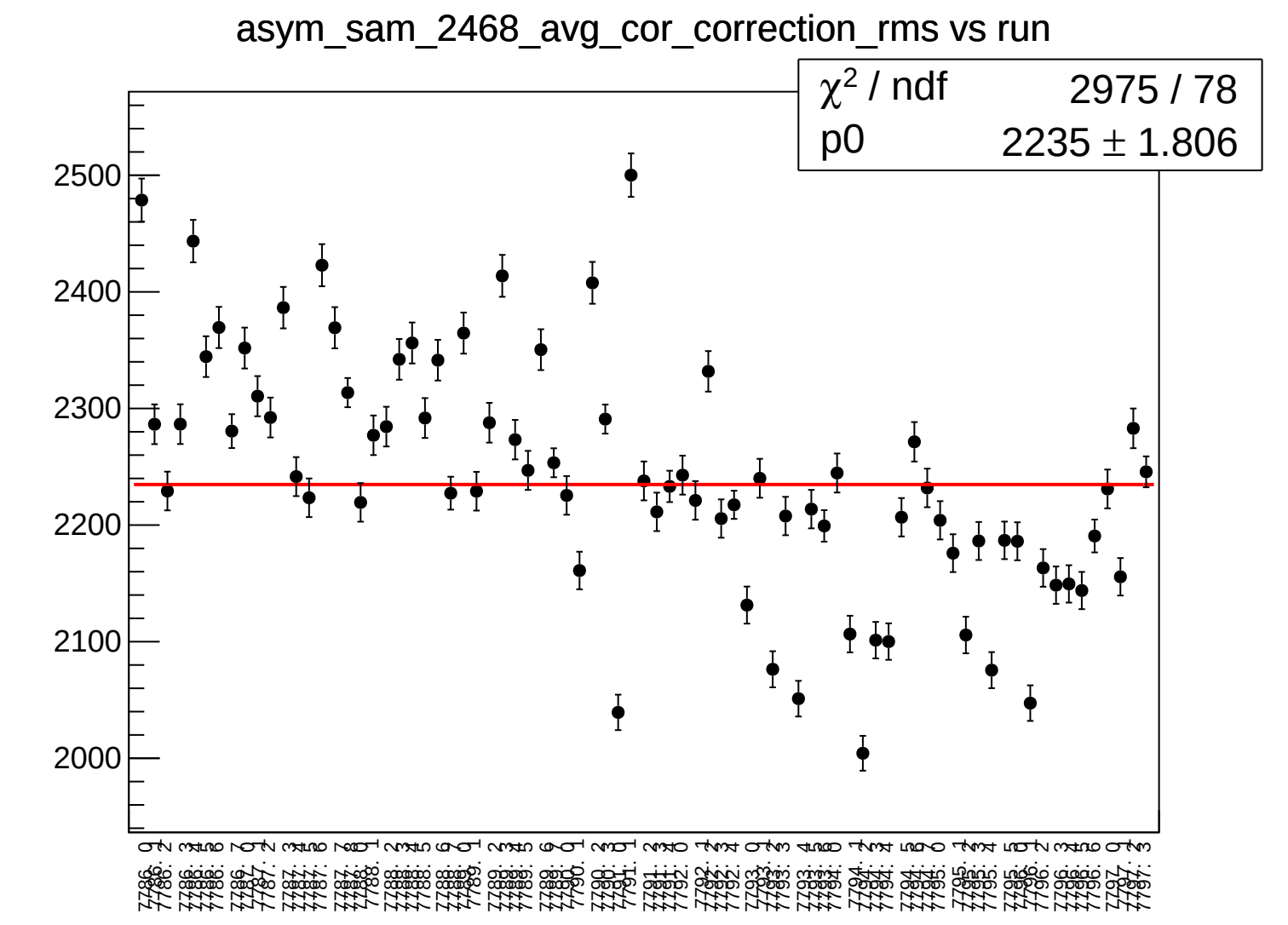

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 62.02 / 78
p0 −63.24 ± 206
pull
Entries 79
Mean 22.01
Std Dev 0

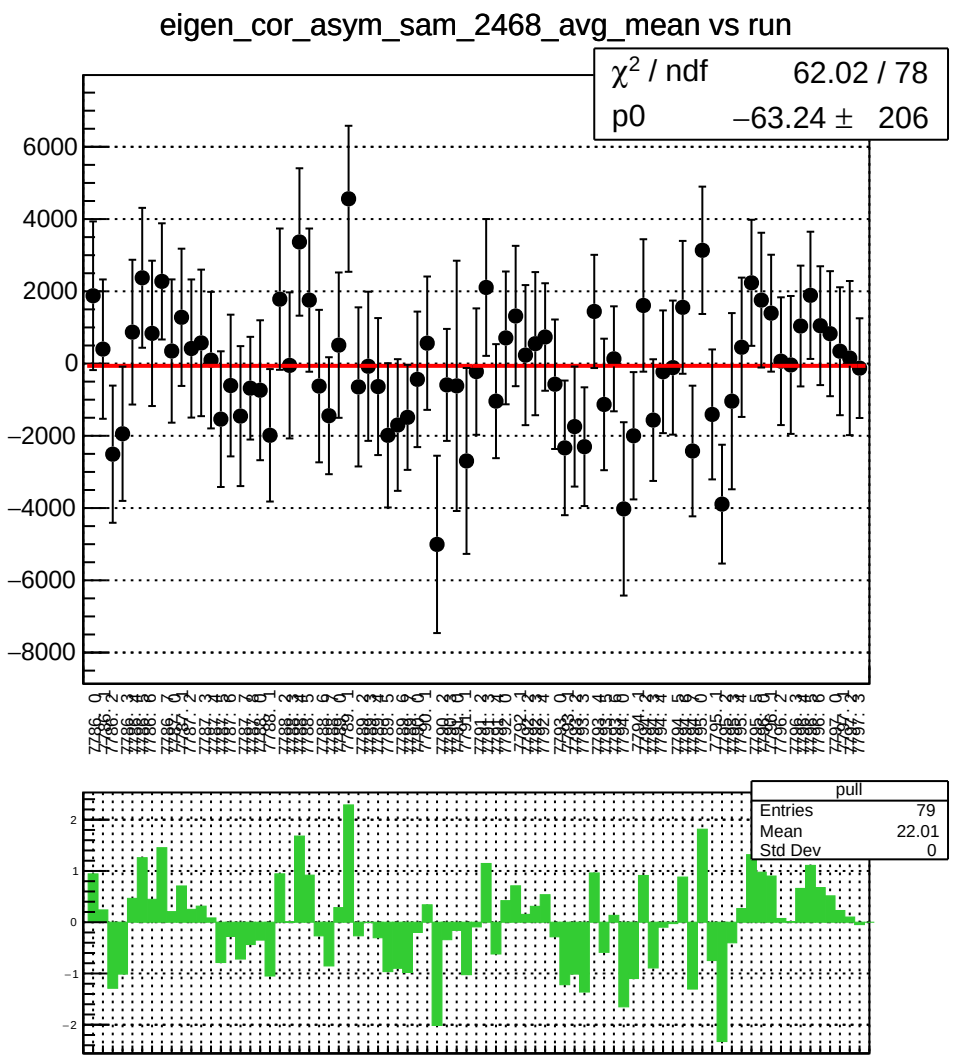

pull1D
Entries 79
Mean −0.003846
Std Dev 0.8861

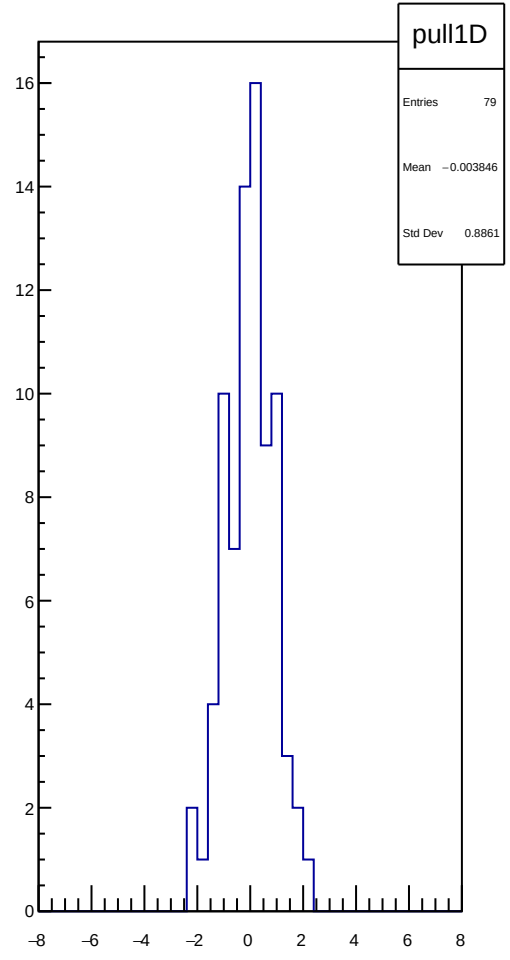

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.486e+04 / 78
p0 179.5 ± 0.1456
340
320
300
280
260
240
220
200
180
160
140

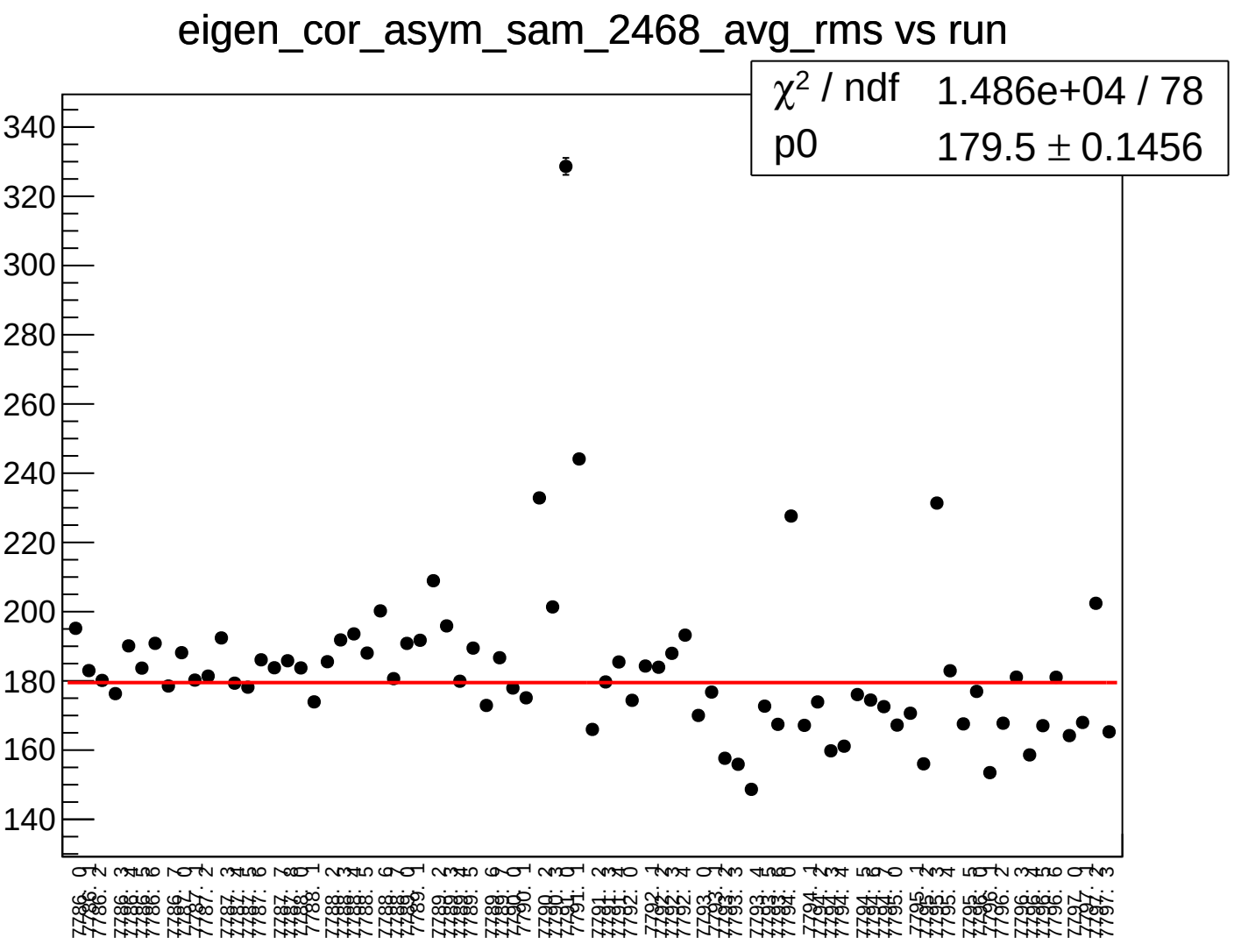

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 71.63 / 78
p0 −3933 ± 2554
pull
Entries 79
Mean −61.41
Std Dev 0

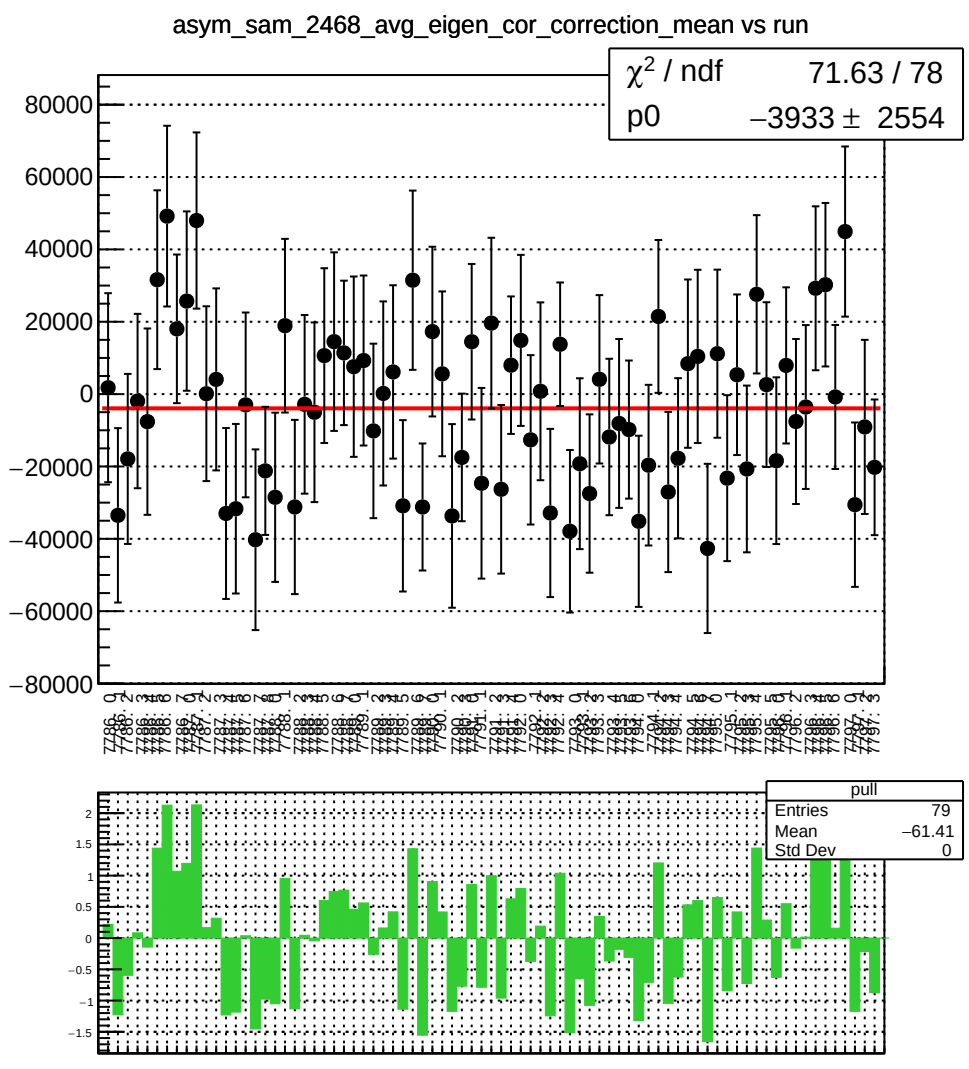

pull1D
Entries 79
Mean 0.00862
Std Dev 0.9522

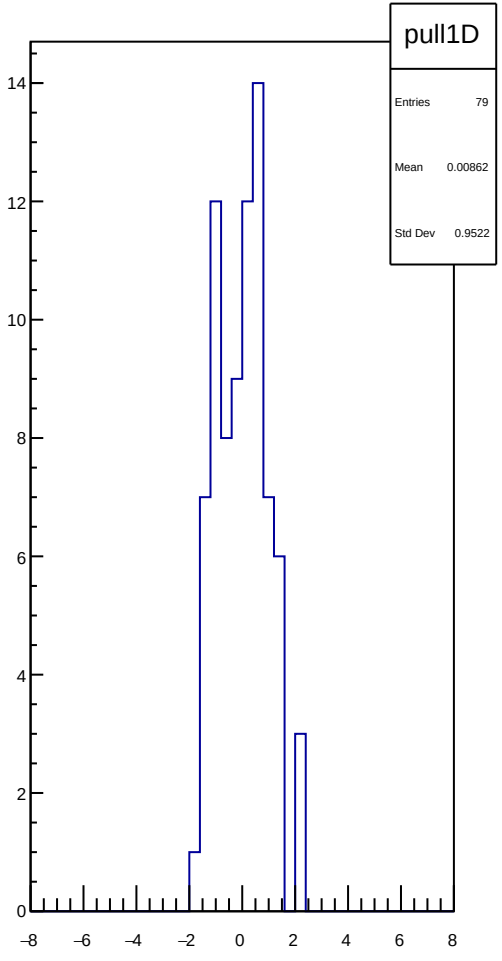

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 2975 / 78
p0 2235 ± 1.806
2500
2400
2300
2200
2100
2000

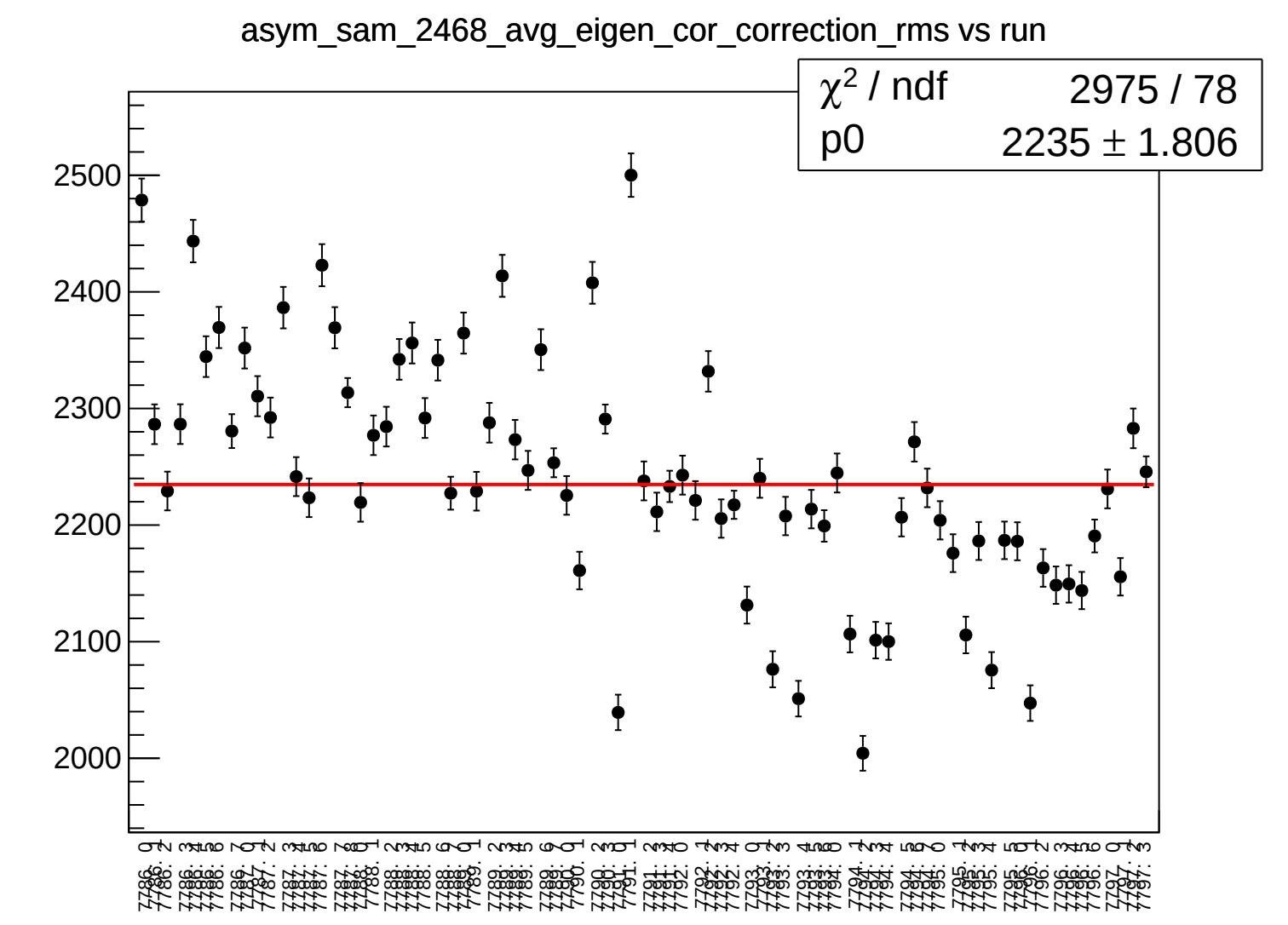

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 62.02 / 78
p0 −63.24 ± 206
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 79
Mean 22.01
Std Dev 0
2
1
0
−1
−2

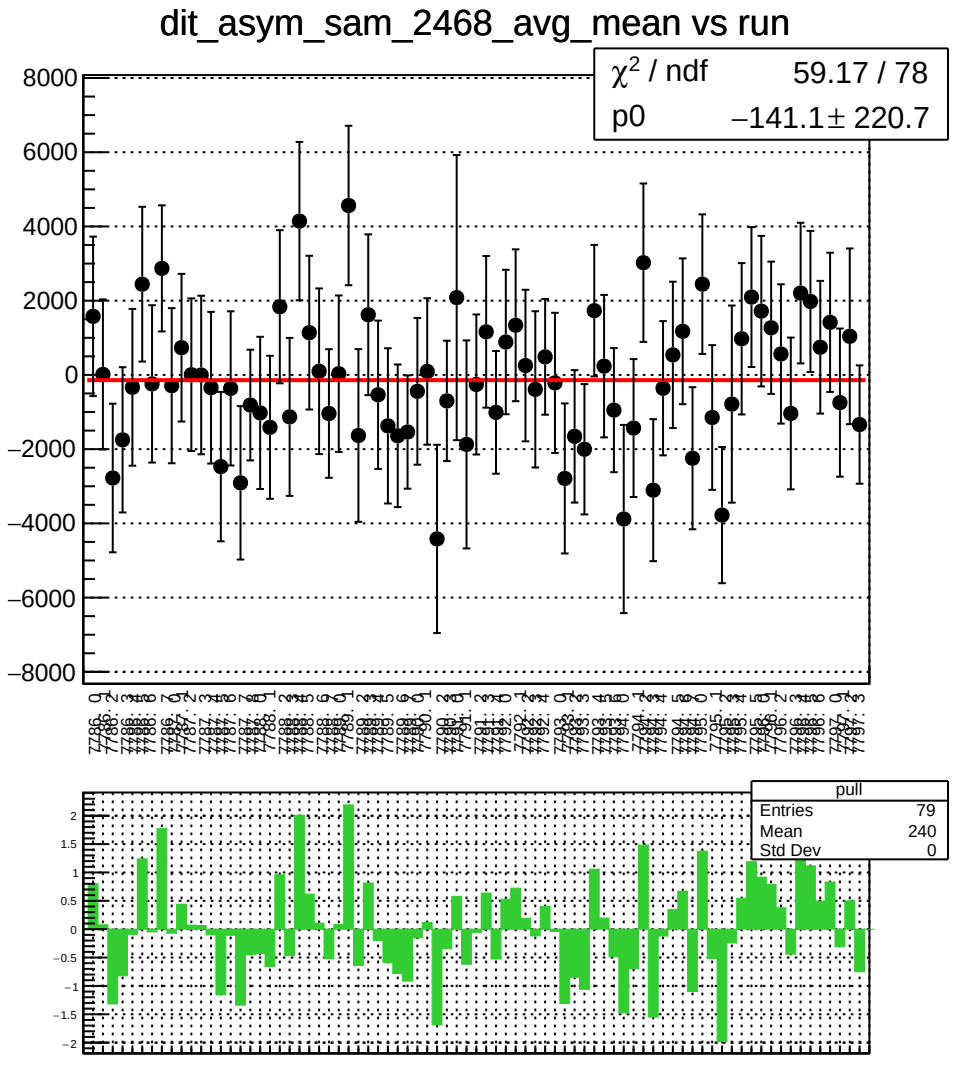

pull1D
Entries 79
Mean −0.003846
Std Dev 0.8861
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

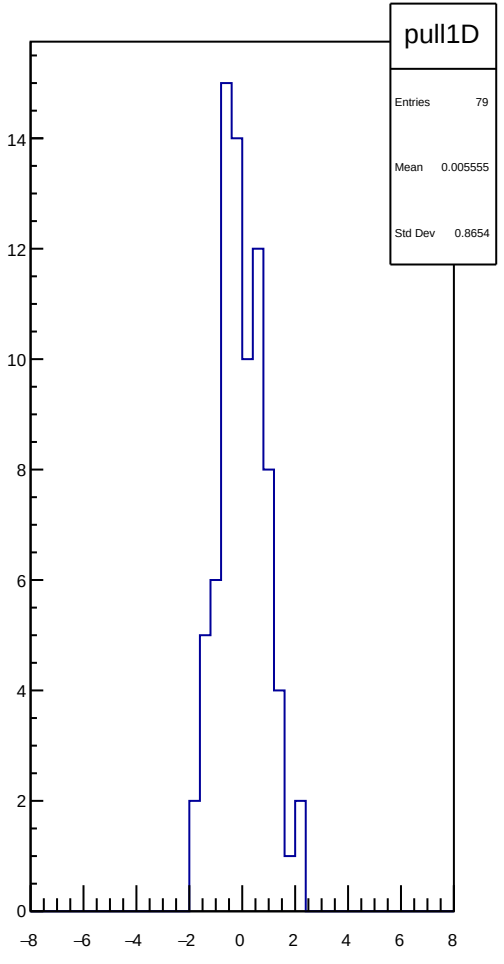

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.486e+04 / 78
p0 179.5 ± 0.1456
340
320
300
280
260
240
220
200
180
160
140

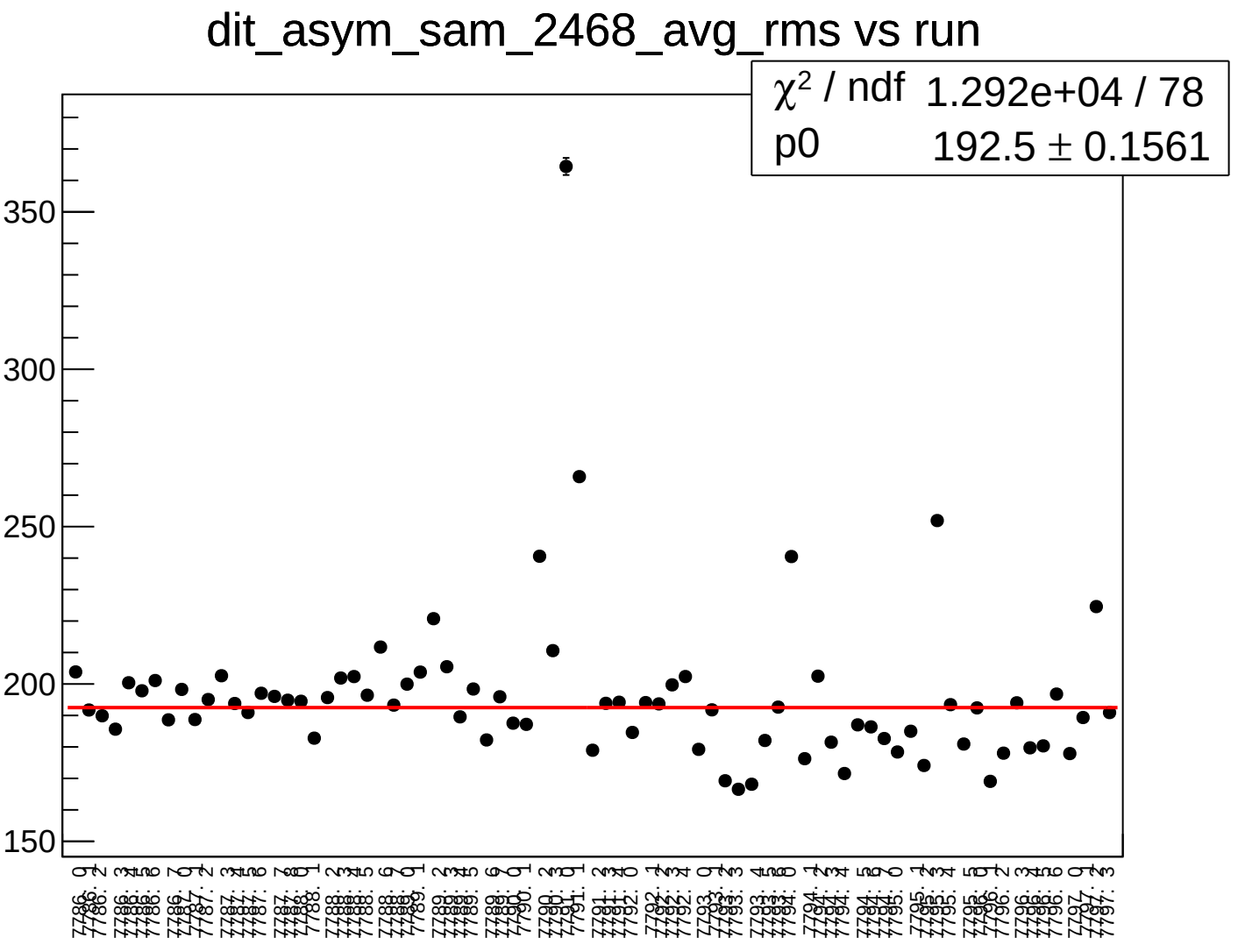

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.63 / 78
p0 −3933 ± 2554
pull
Entries 79
Mean −61.41
Std Dev 0

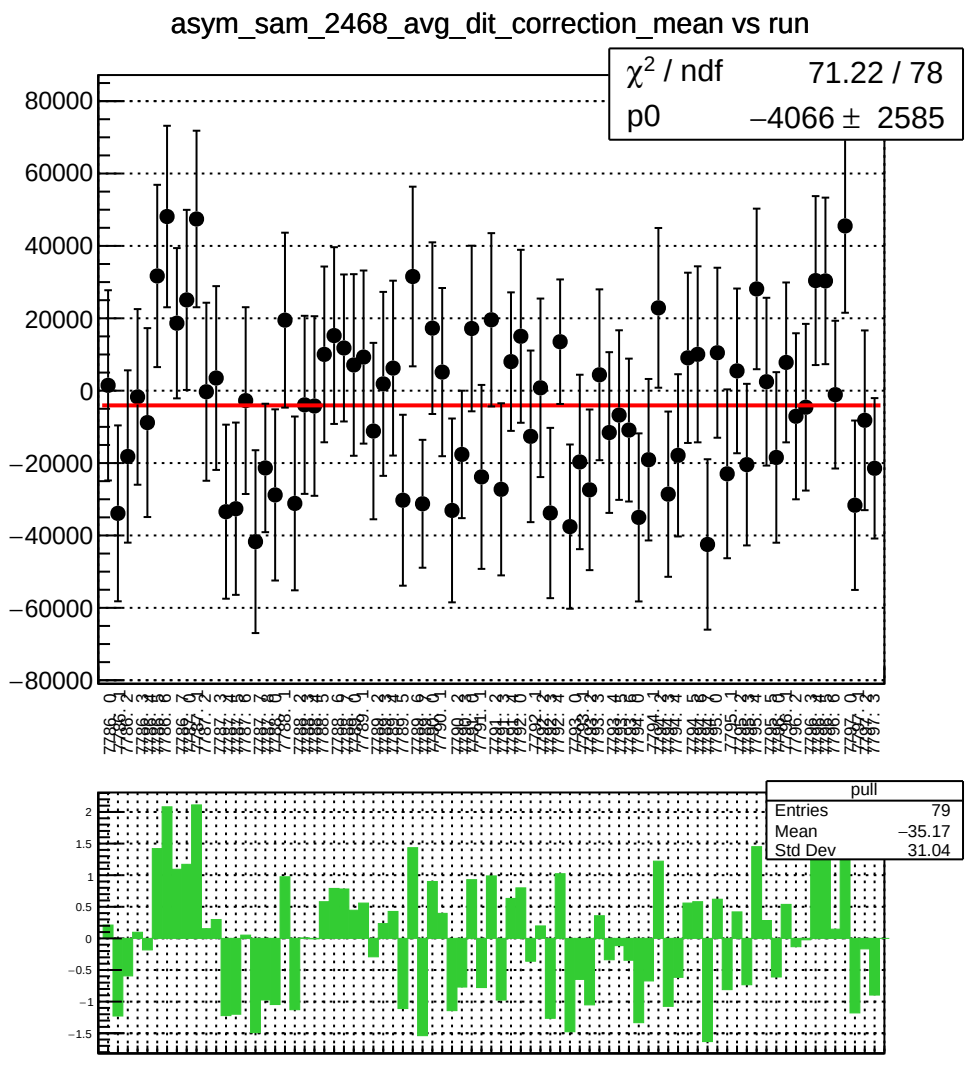

pull1D
Entries 79
Mean 0.00862
Std Dev 0.9522

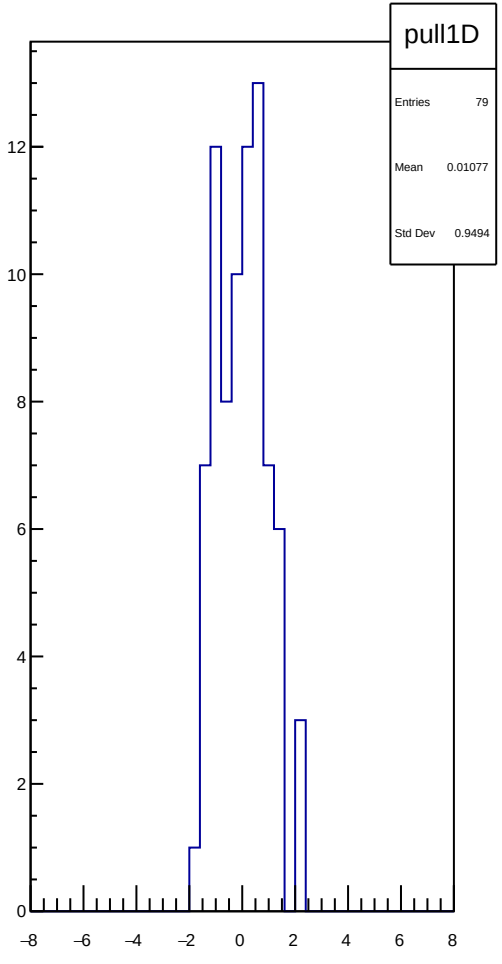

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 2975 / 78
p0 2235 ± 1.806
2500
2400
2300
2200
2100
2000

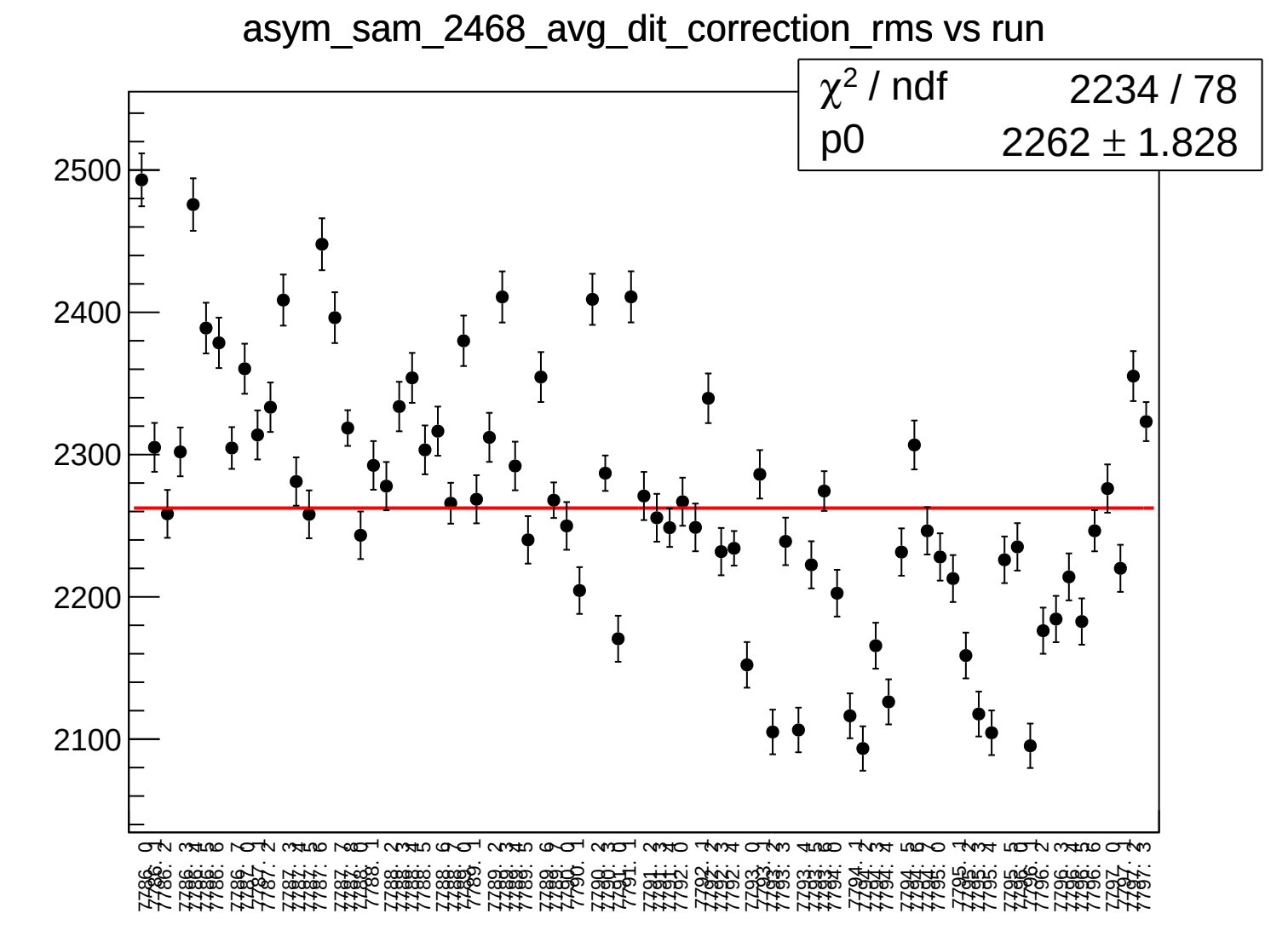

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 59.17 / 78
p0 −141.1± 220.7
pull
Entries 79
Mean 240
Std Dev 0

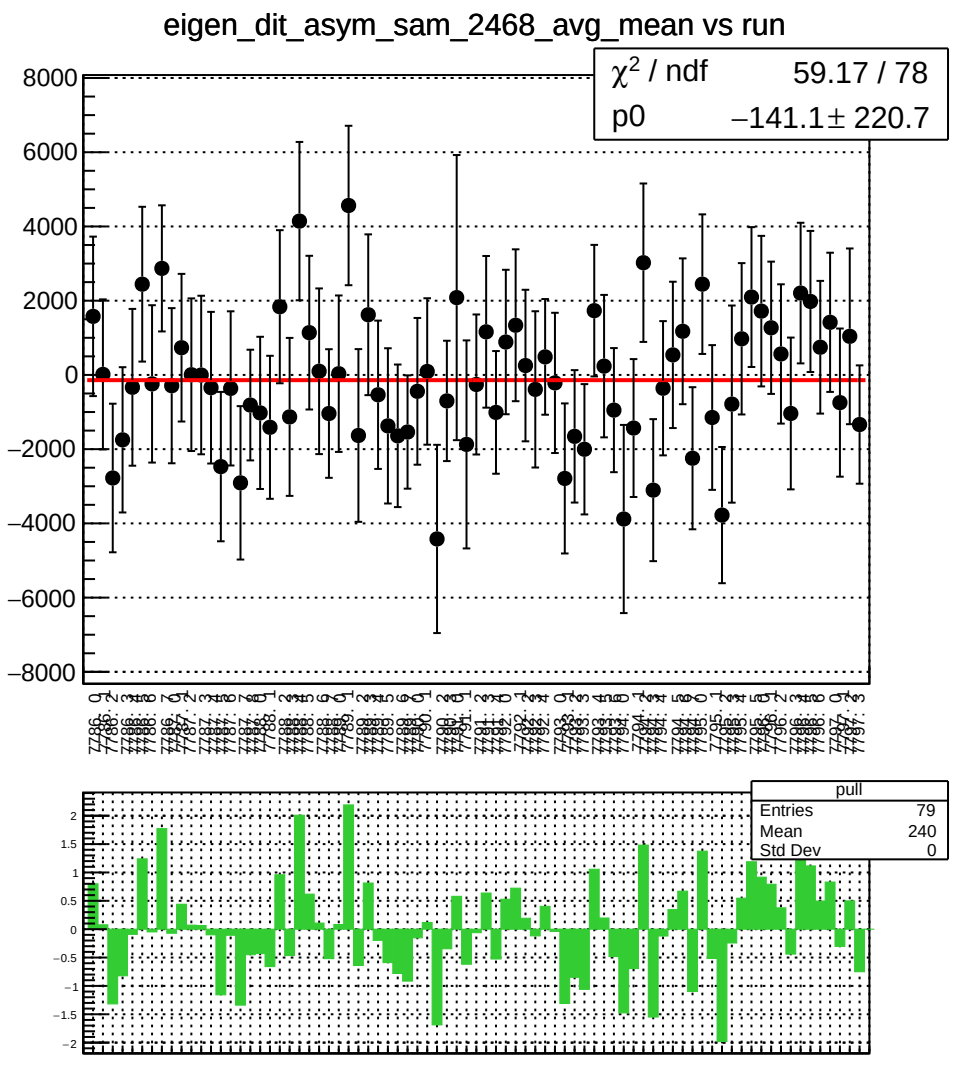

pull1D
Entries 79
Mean 0.005555
Std Dev 0.8654

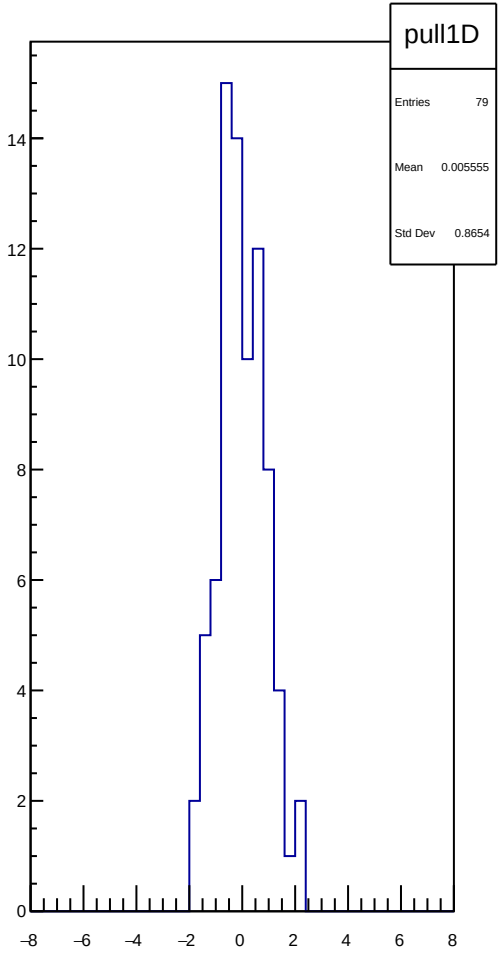

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.292e+04 / 78
p0 192.5 ± 0.1561
350
300
250
200
150

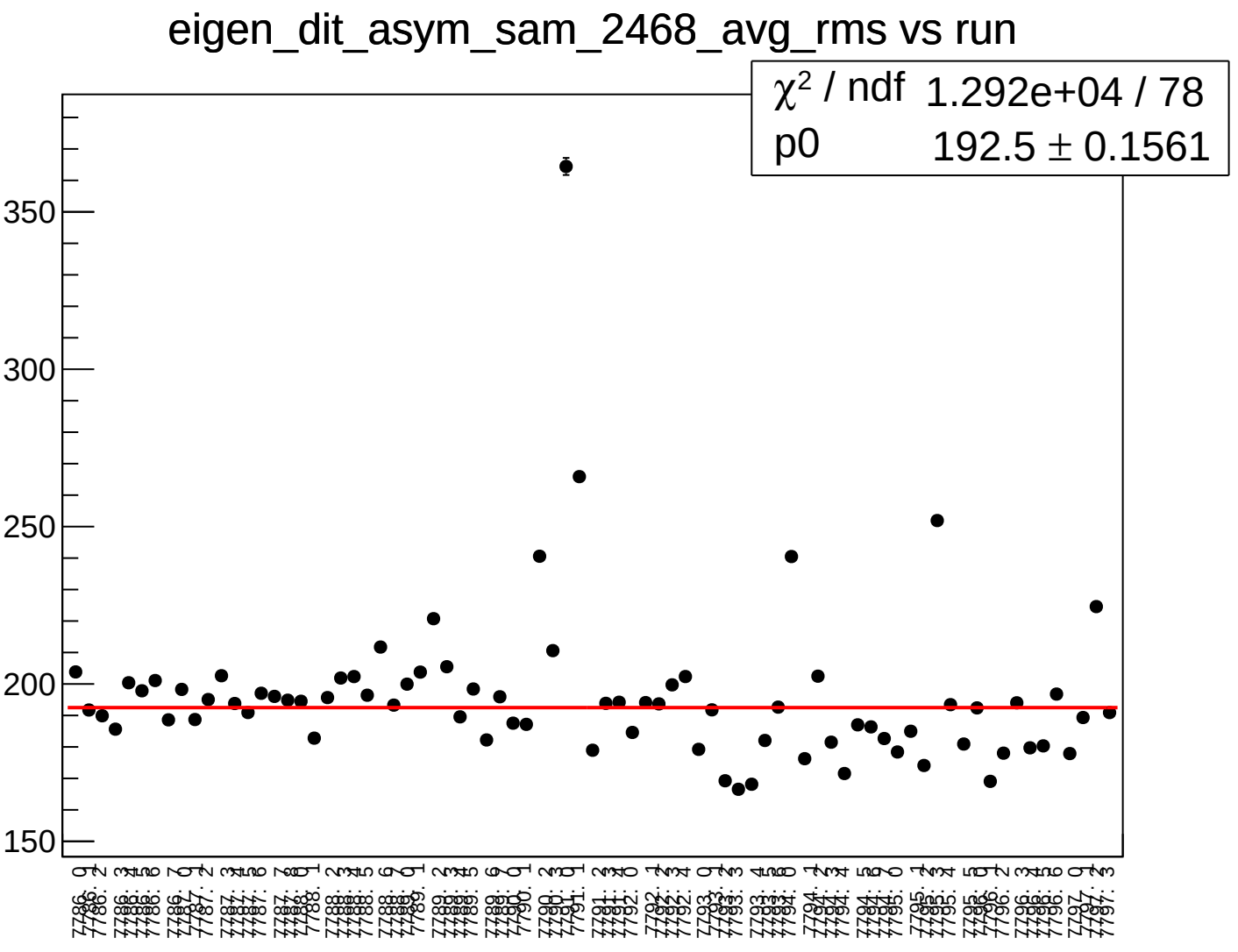

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 71.22 / 78
p0 −4066 ± 2585
pull
Entries 79
Mean −35.17
Std Dev 31.04

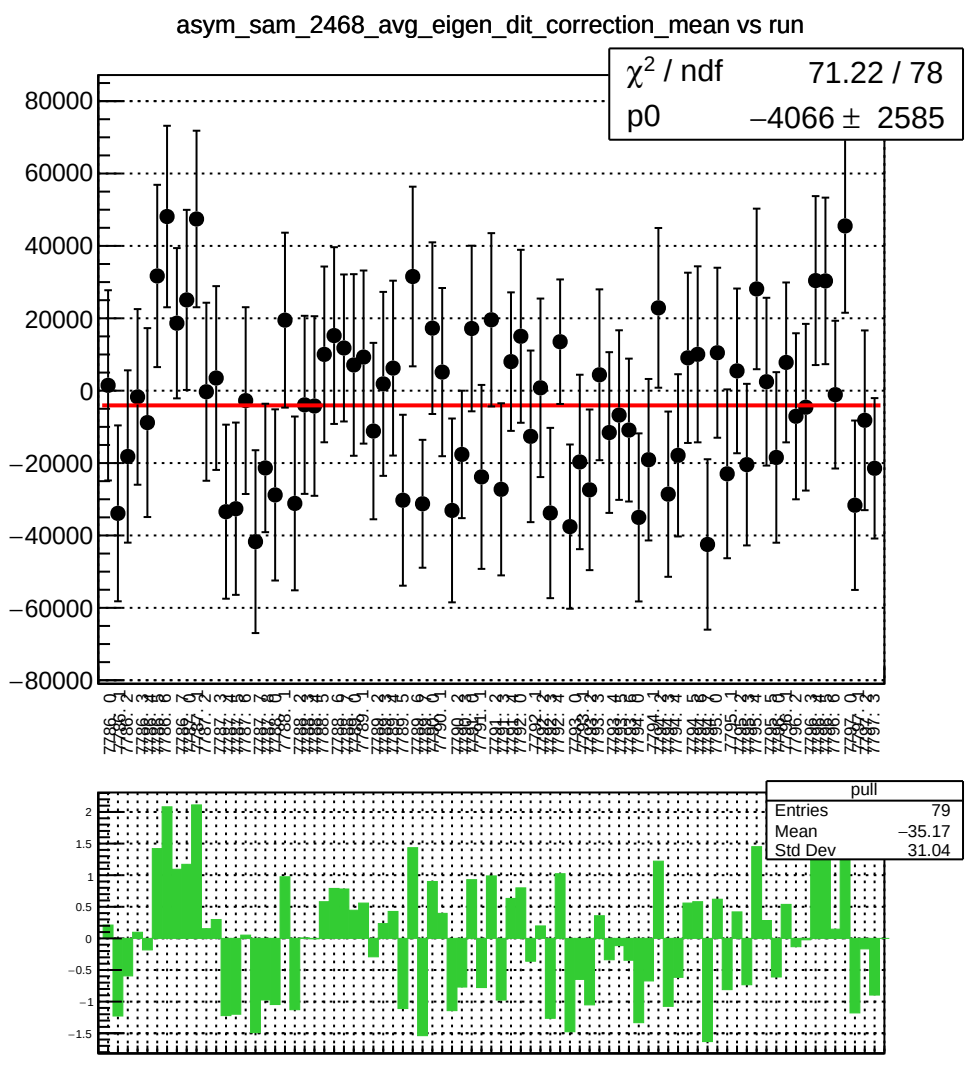

pull1D
Entries 79
Mean 0.01077
Std Dev 0.9494

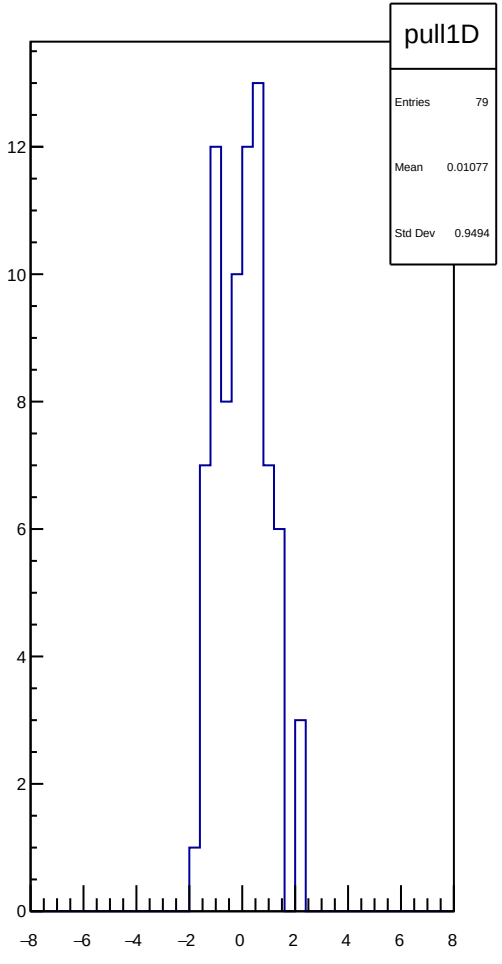

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 2234 / 78
p0 2262 ± 1.828
2500
2400
2300
2200
2100

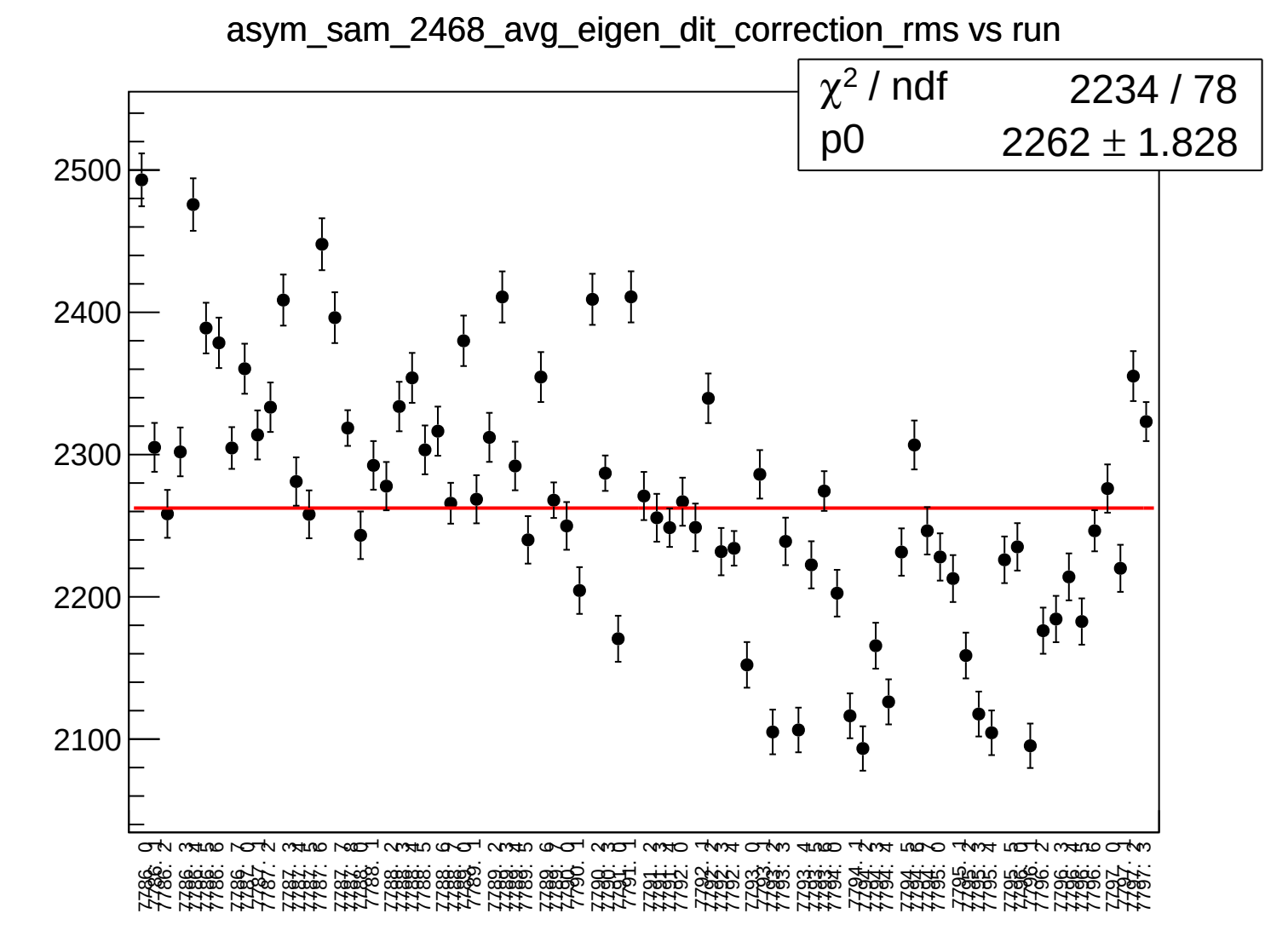

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 59.17 / 78
p0 −141.1± 220.7
pull
Entries 79
Mean 240
Std Dev 0

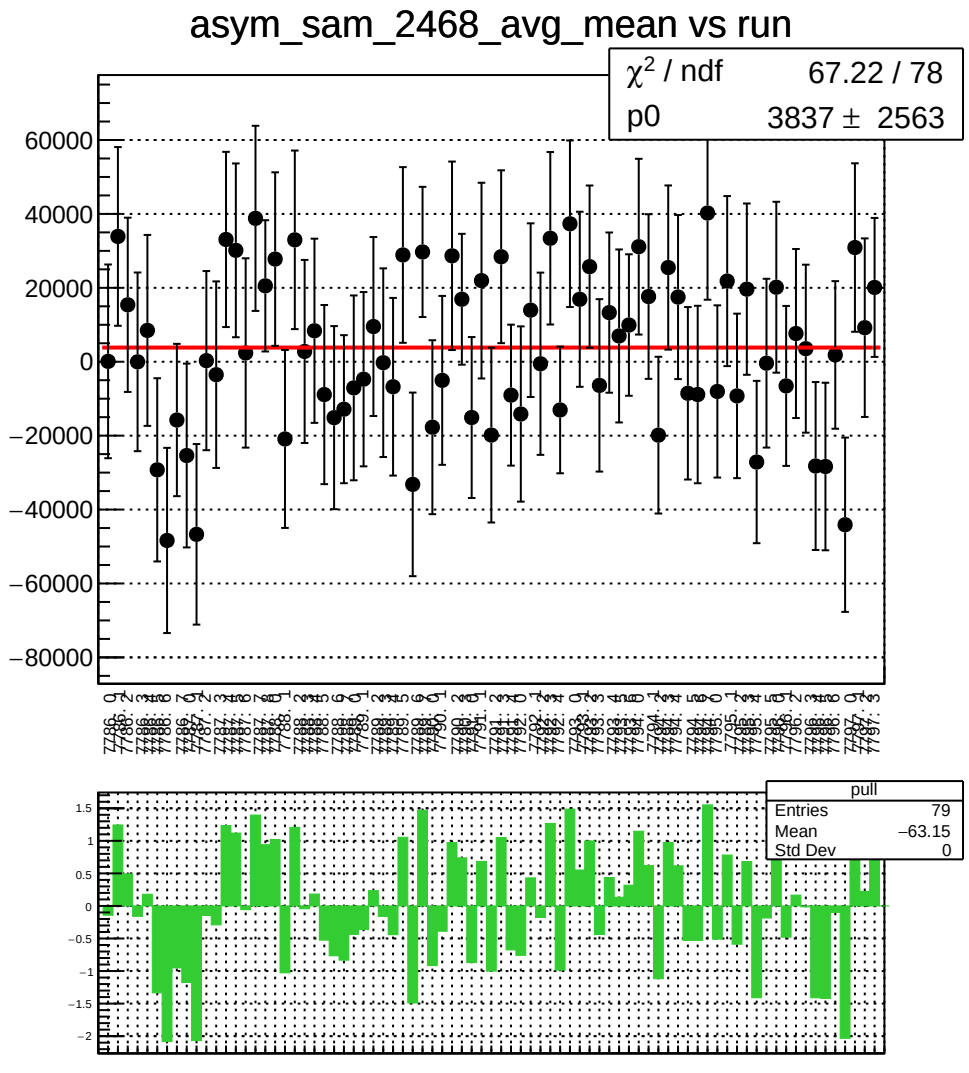

pull1D
Entries 79
Mean 0.005555
Std Dev 0.8654

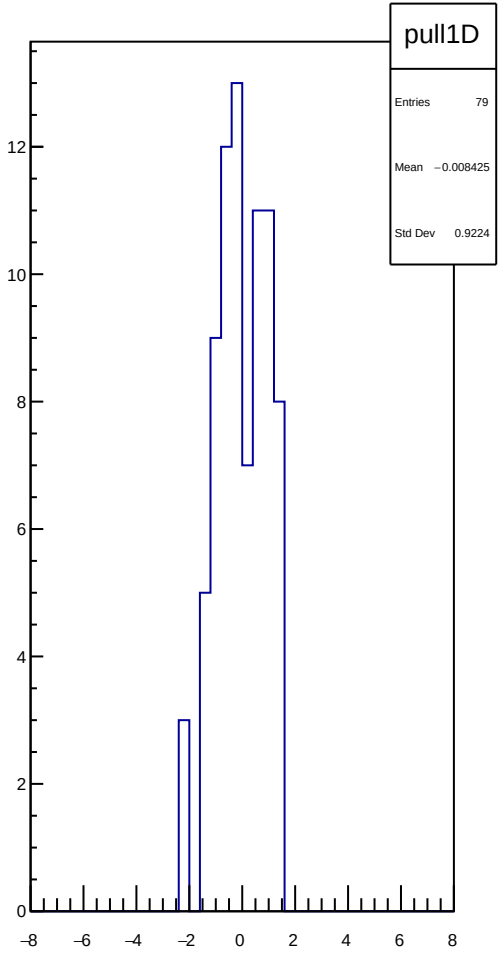

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.292e+04 / 78
p0 192.5 ± 0.1561
350
300
250
200
150

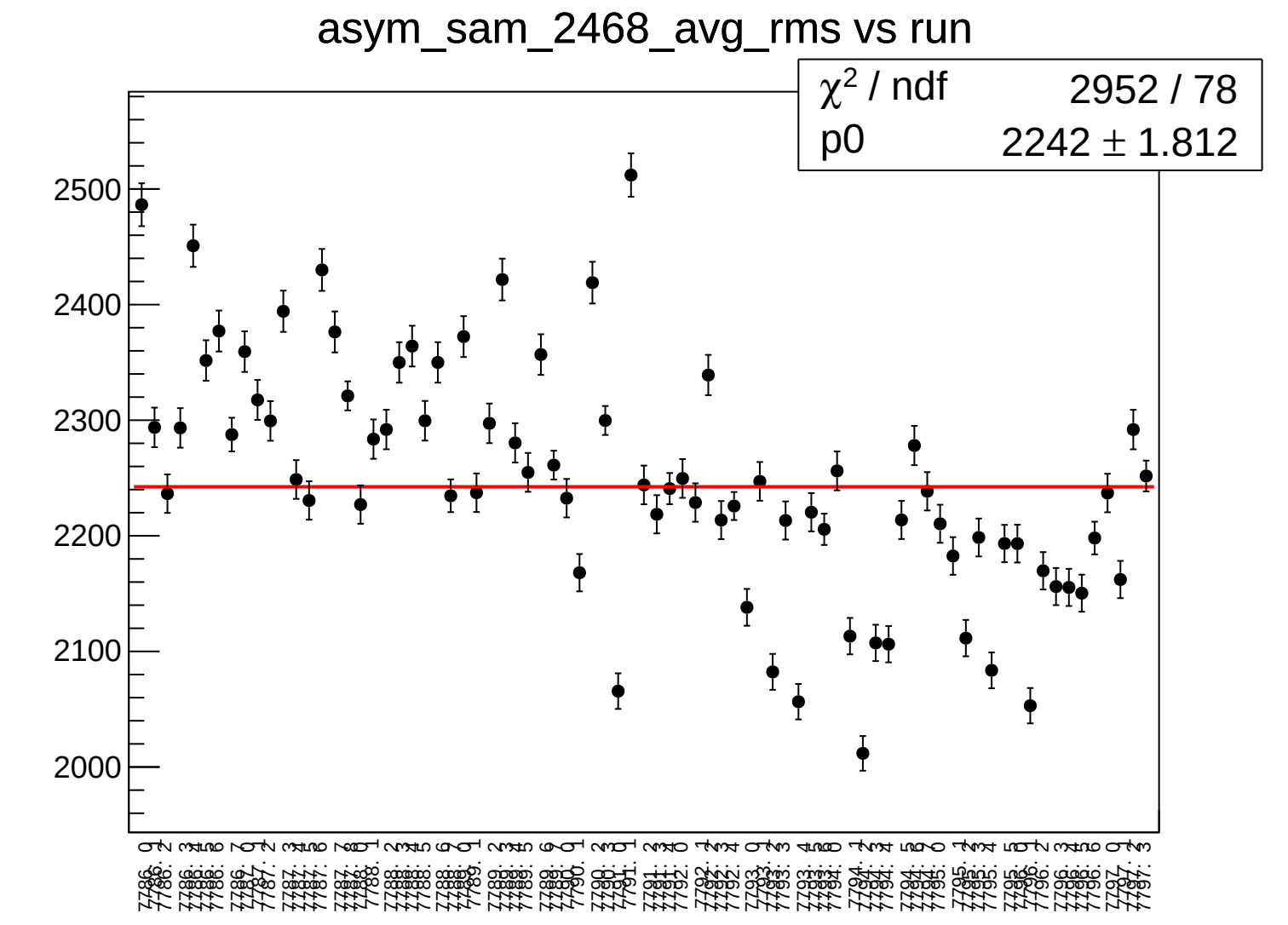

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 71.22 / 78
p0 −4066 ± 2585
pull
Entries 79
Mean −35.17
Std Dev 31.04

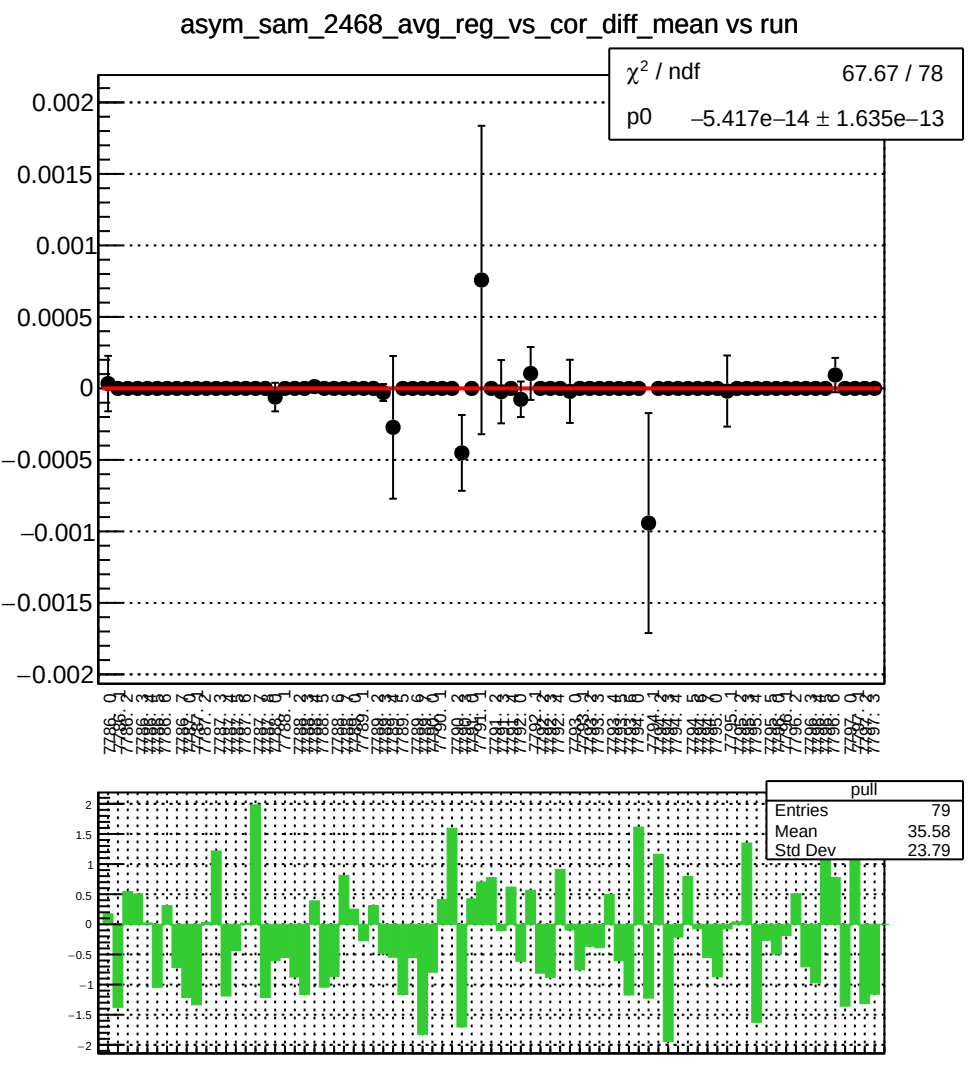

pull1D
Entries 79
Mean 0.01077
Std Dev 0.9494

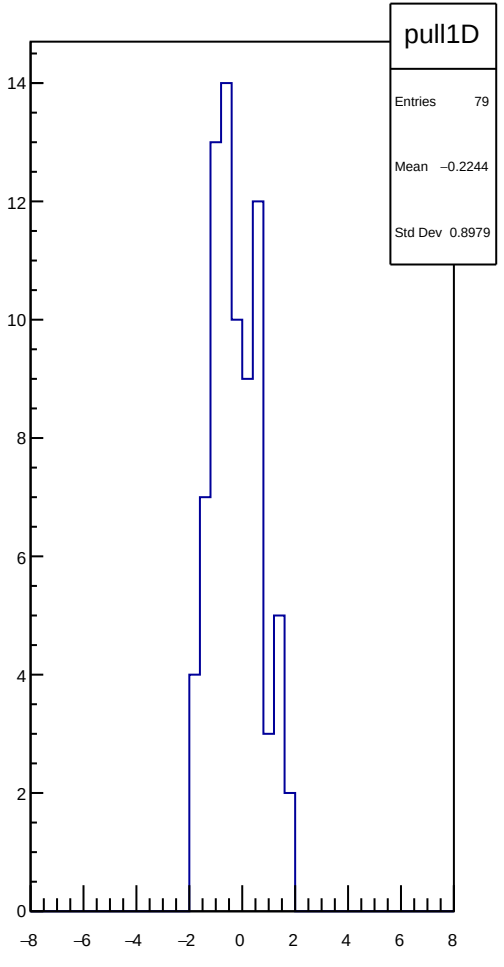

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 2234 / 78
p0 2262 ± 1.828
2500
2400
2300
2200
2100

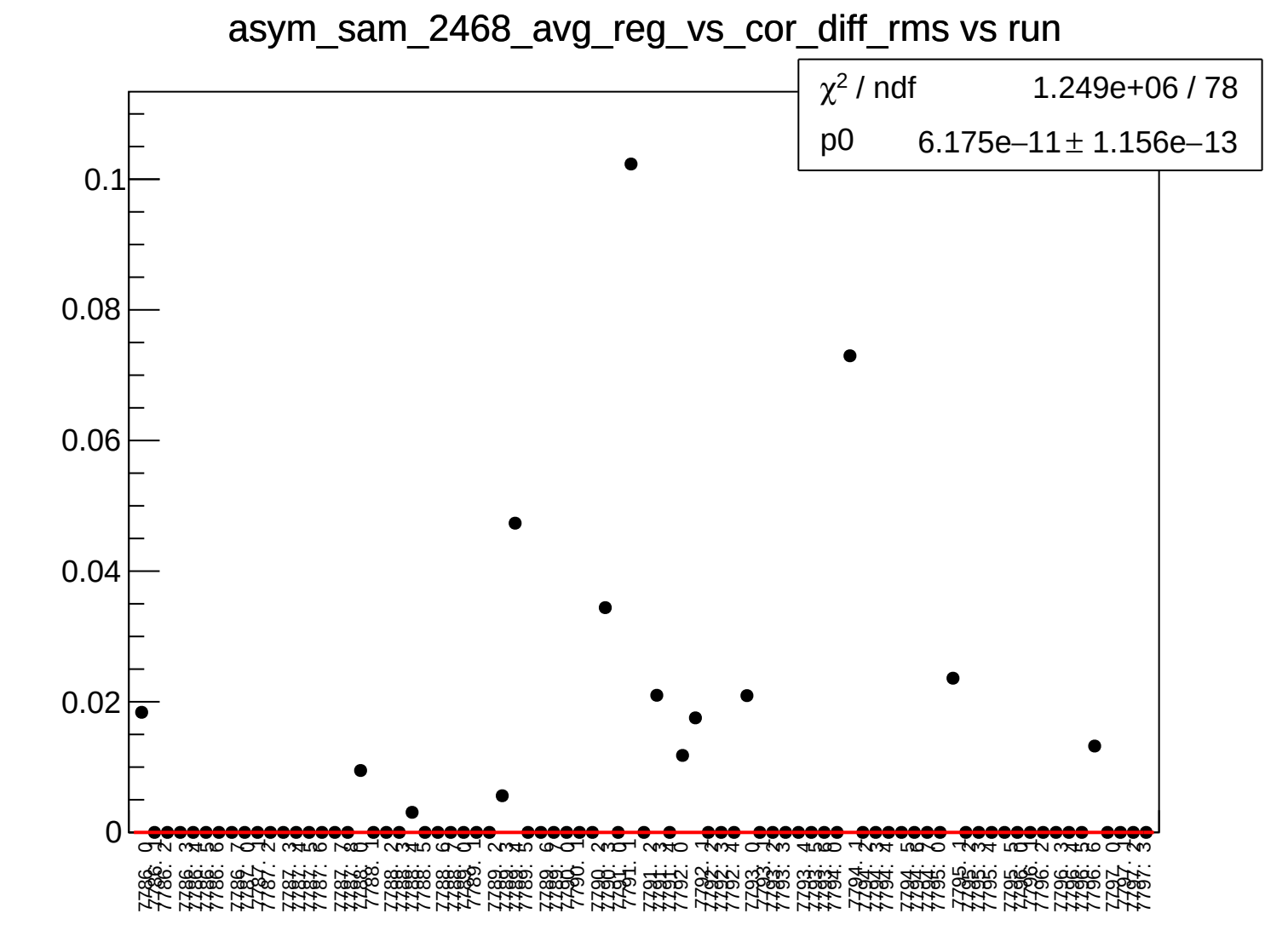

asym_sam_2468_avg_mean vs run
χ² / ndf 67.22 / 78
p0 3837 ± 2563
pull
Entries 79
Mean −63.15
Std Dev 0

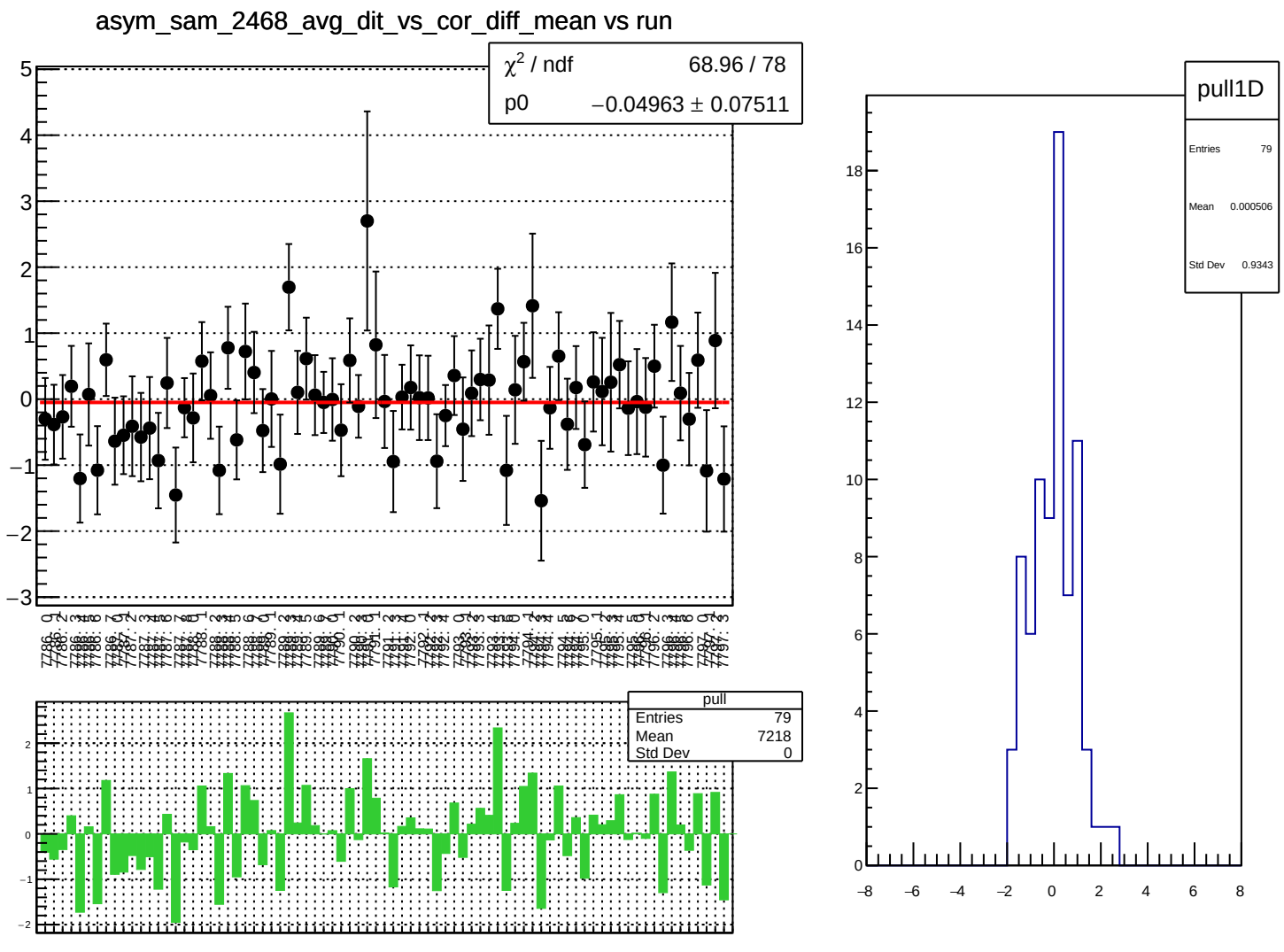

pull1D
Entries 79
Mean −0.008425
Std Dev 0.9224

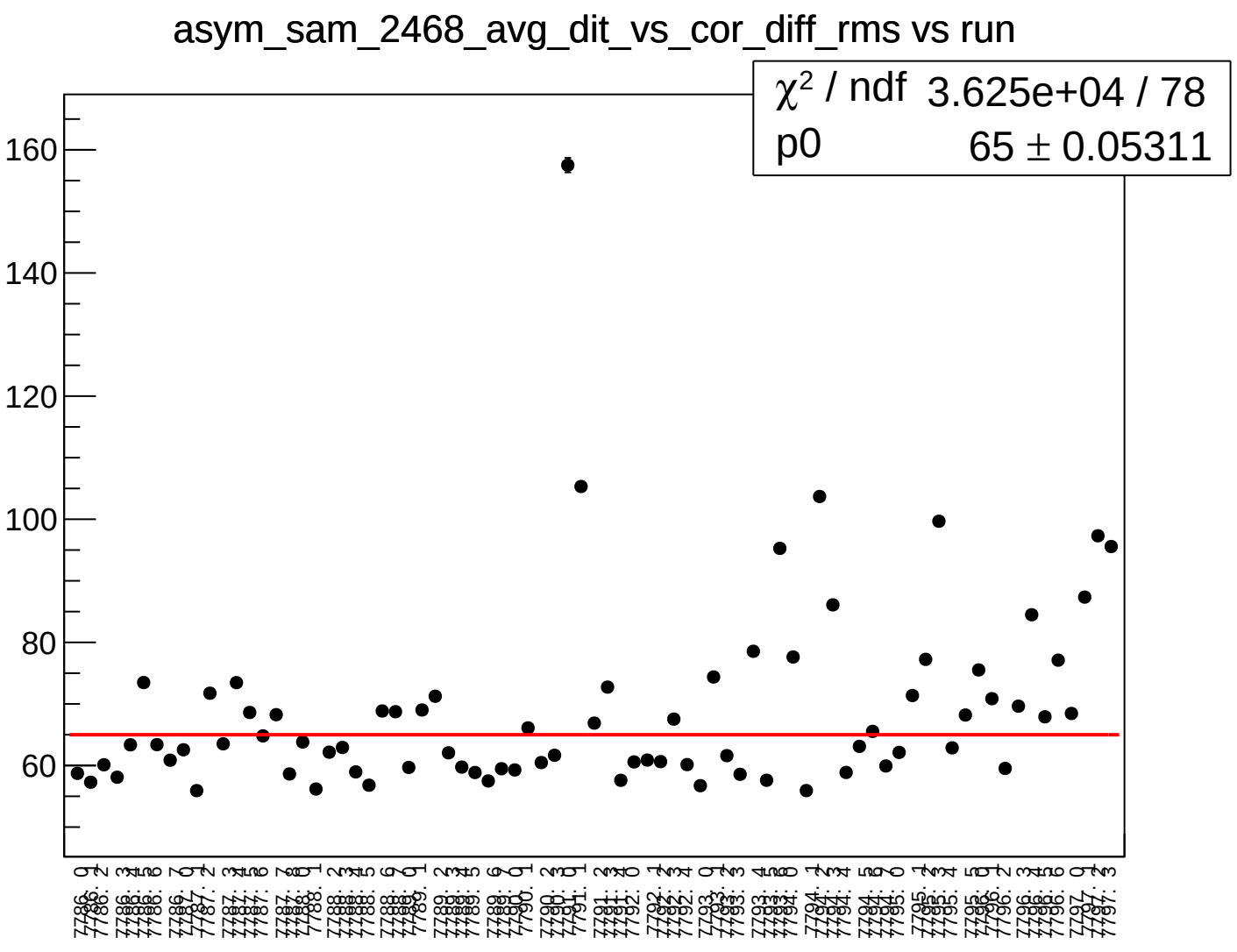

asym_sam_2468_avg_rms vs run
χ^2 / ndf 2952 / 78
p0 2242 ± 1.812
2500
2400
2300
2200
2100
2000

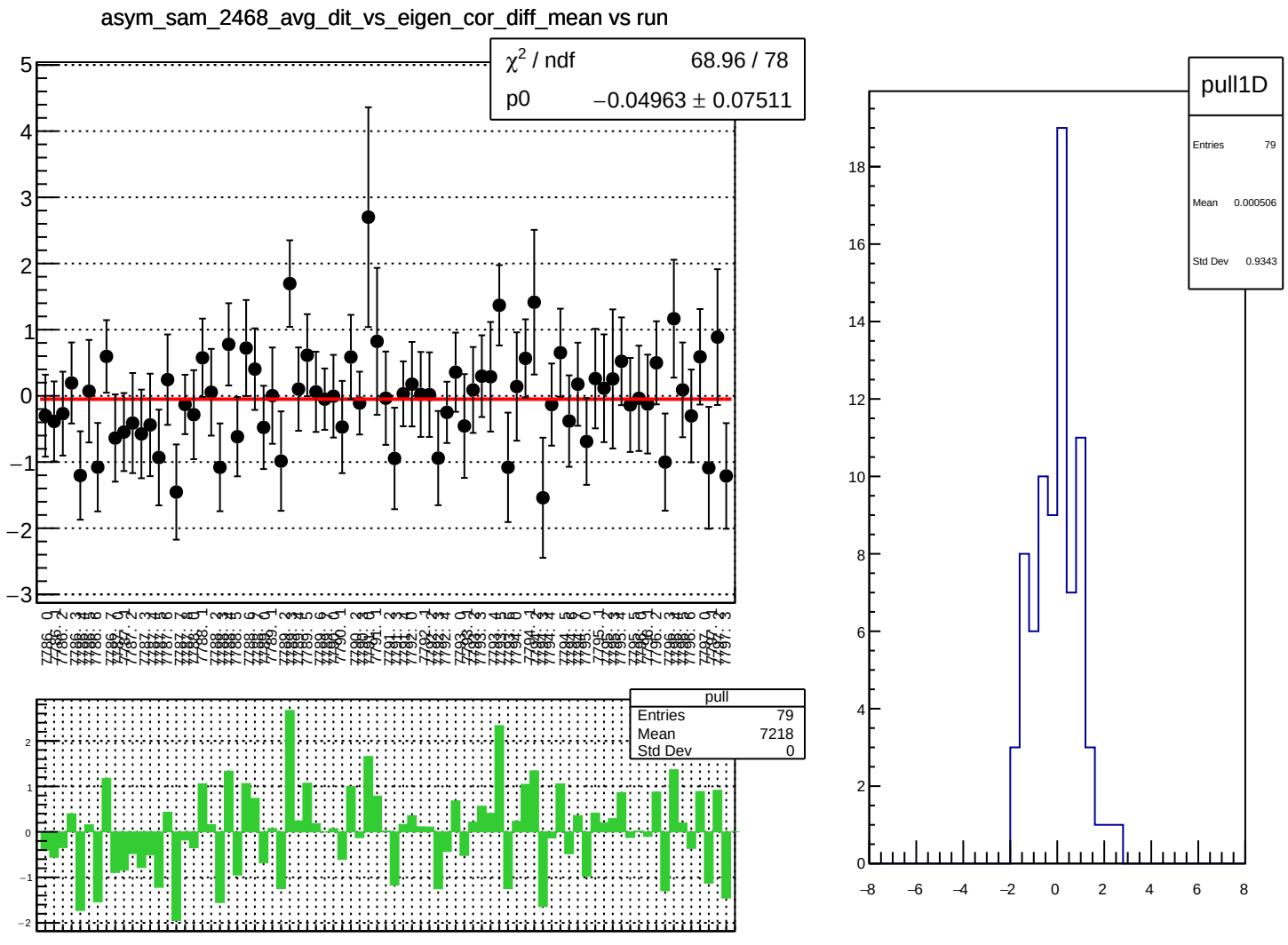

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.67 / 78
p0 −5.417e−14 ± 1.635e−13
pull
Entries 79
Mean 35.58
Std Dev 23.79

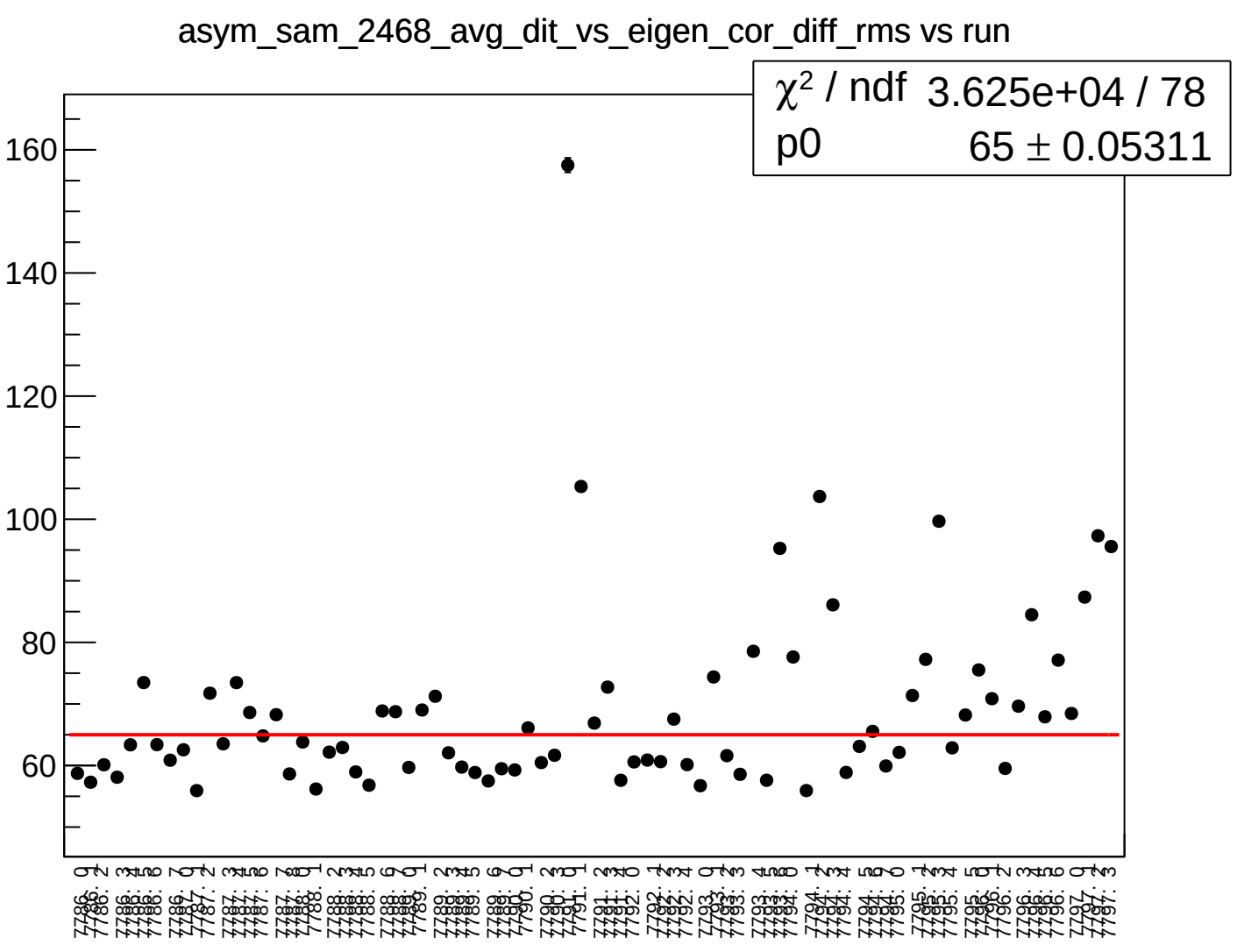

pull1D
Entries 79
Mean −0.2244
Std Dev 0.8979

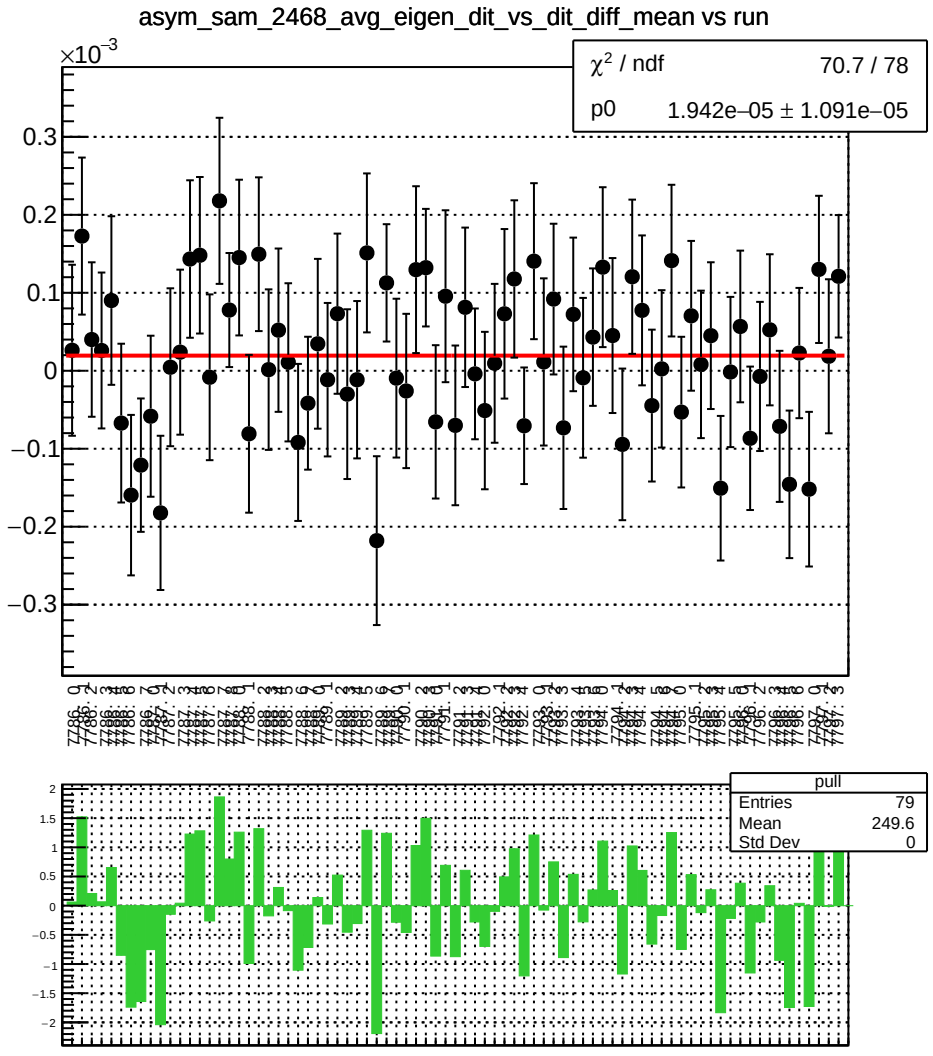

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.249e+06 / 78
p0 6.175e−11 ± 1.156e−13
0.1
0.08
0.06
0.04
0.02
0

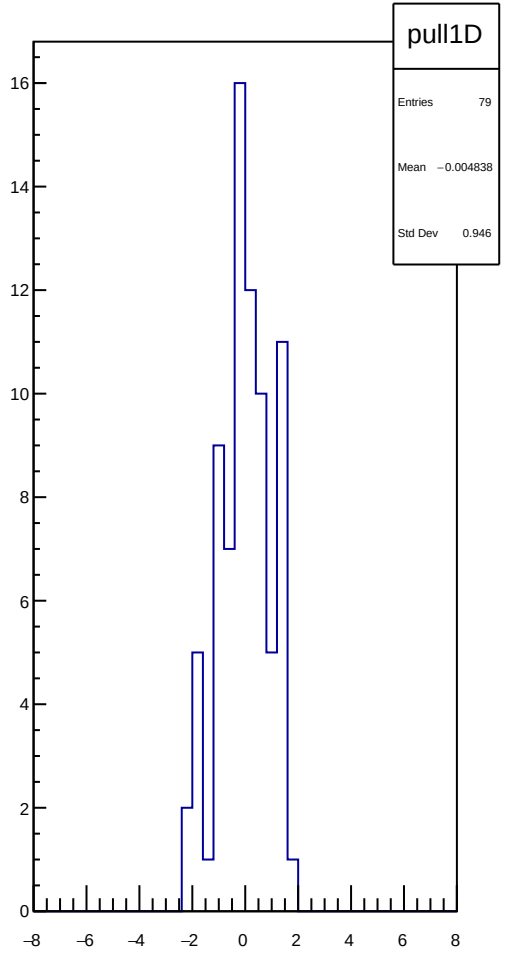

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.96 / 78
p0 −0.04963 ± 0.07511
pull
Entries 79
Mean 7218
Std Dev 0
pull1D
Entries 79
Mean 0.000506
Std Dev 0.9343

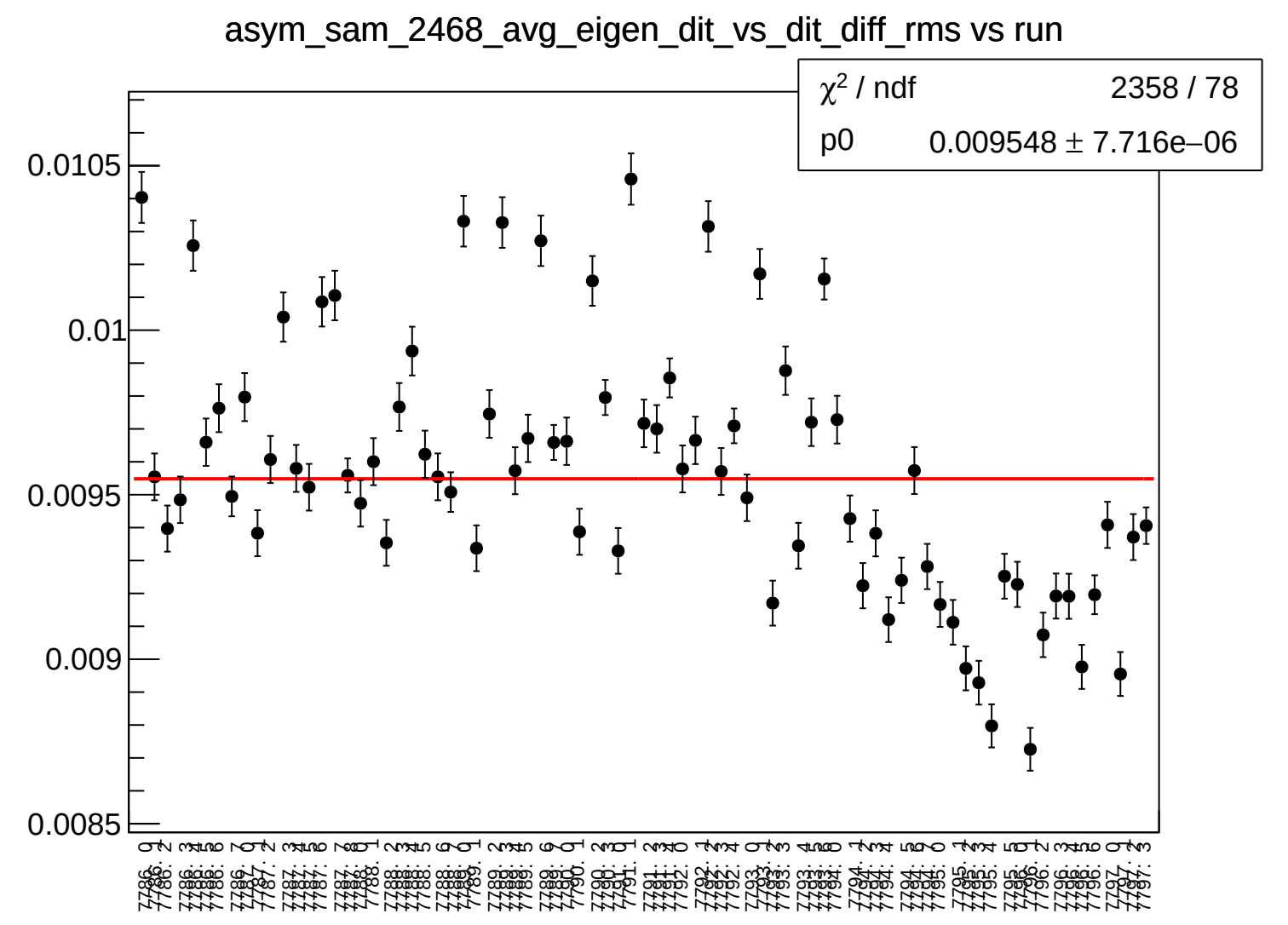

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.625e+04 / 78
p0 65 ± 0.05311
160
140
120
100
80
60

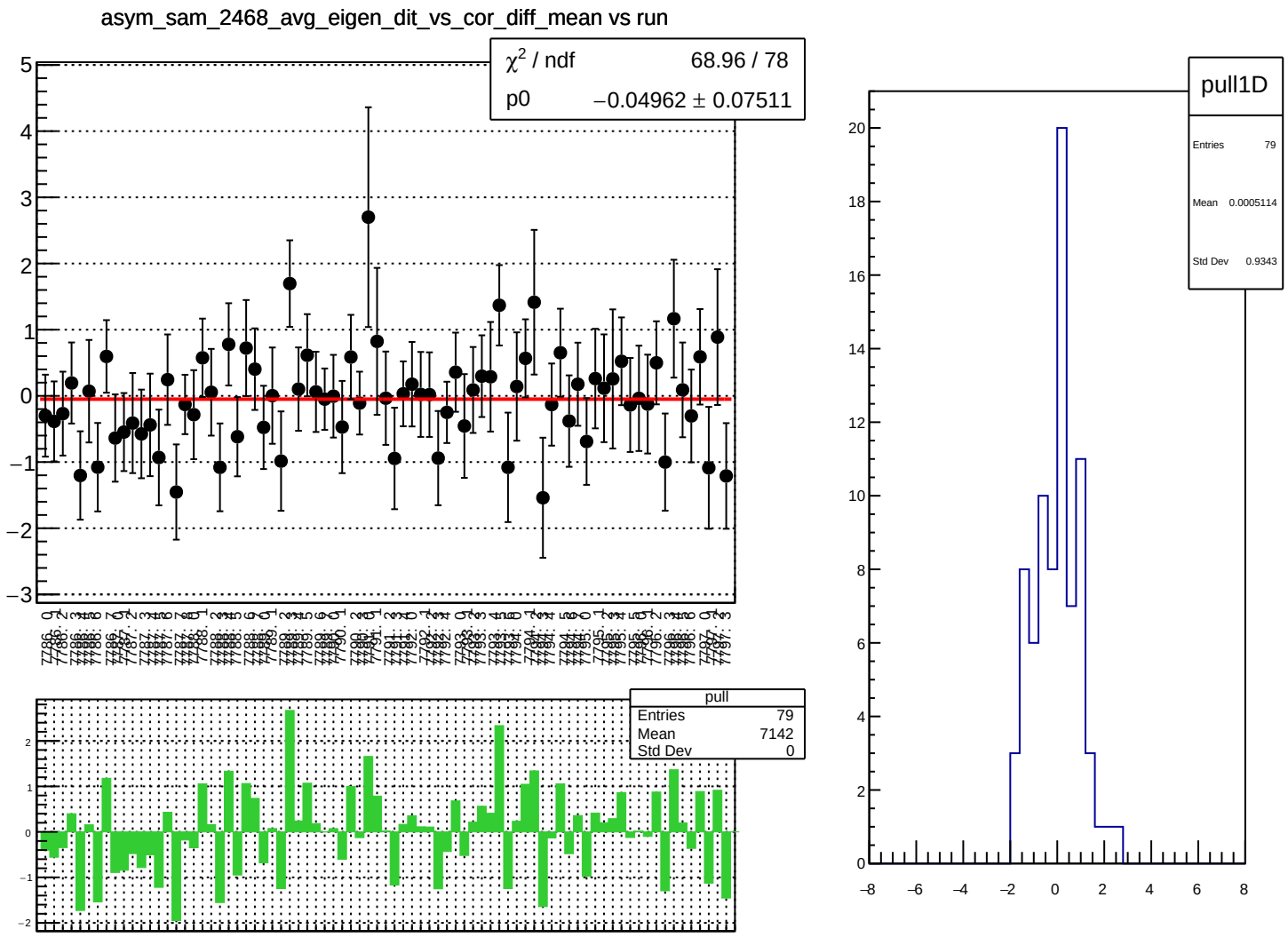

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.96 / 78
p0 −0.04963 ± 0.07511
pull
Entries 79
Mean 7218
Std Dev 0
pull1D
Entries 79
Mean 0.000506
Std Dev 0.9343

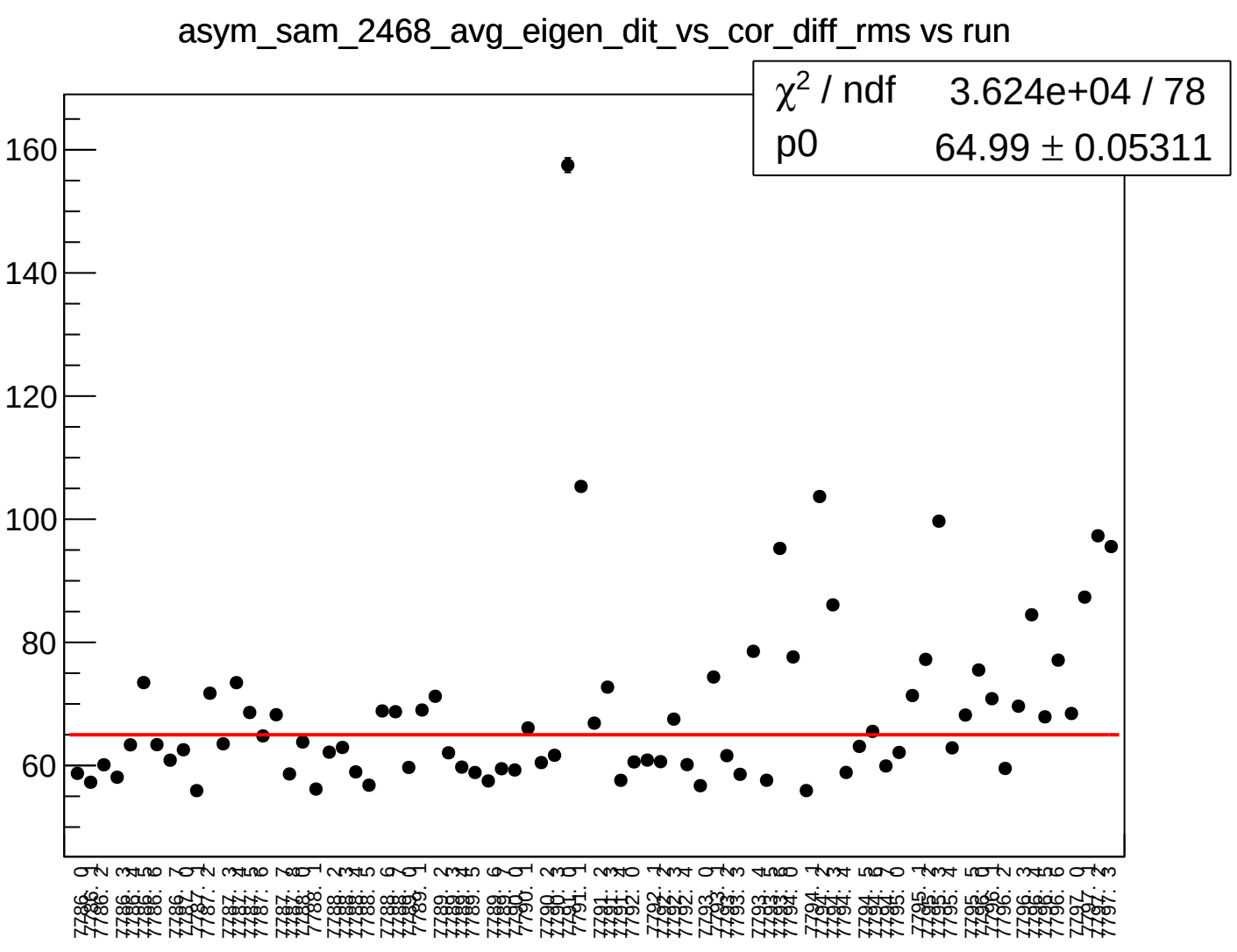

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.625e+04 / 78
p0 65 ± 0.05311
160
140
120
100
80
60

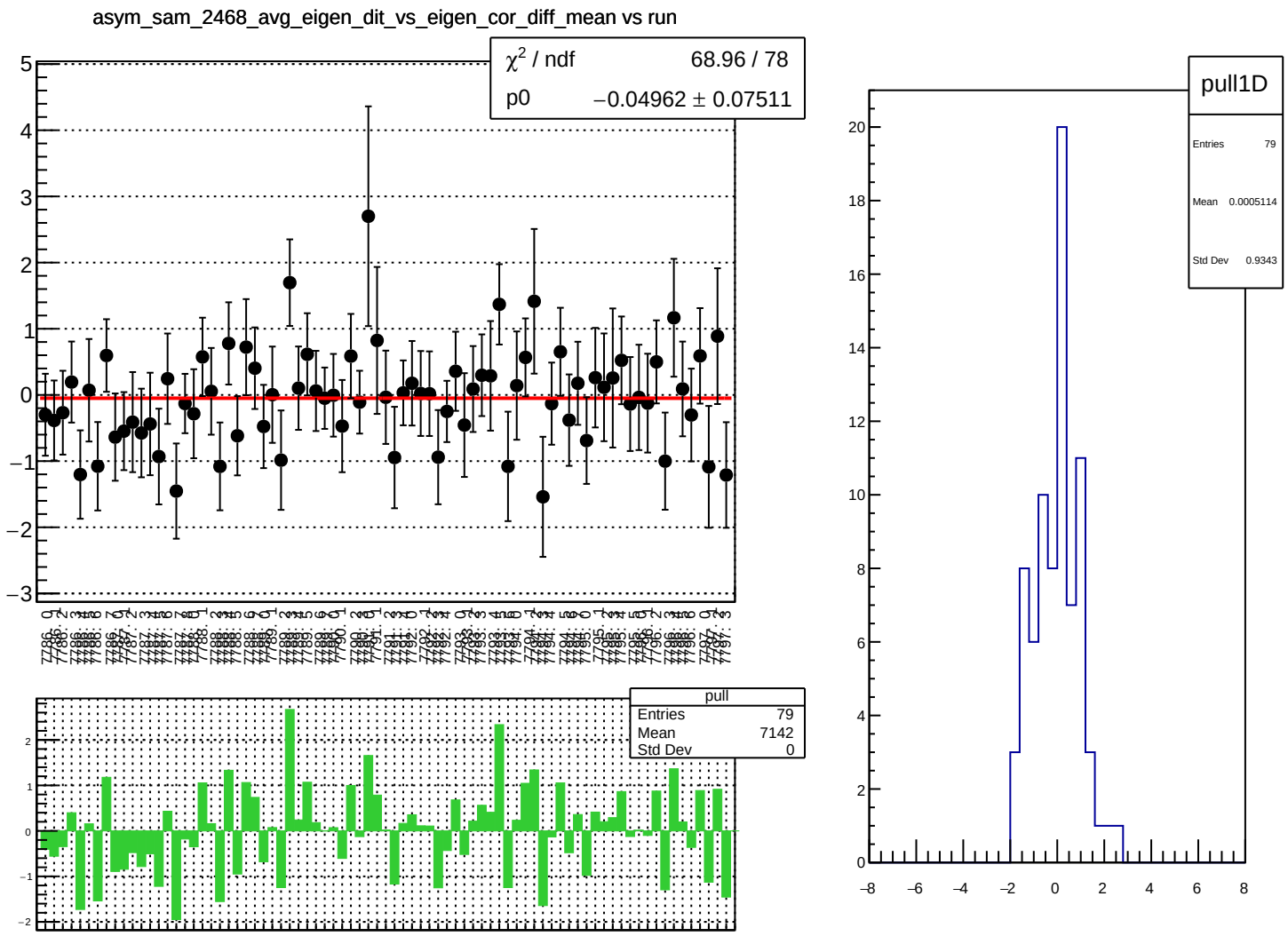

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.7 / 78
p0 1.942e−05 ± 1.091e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 79
Mean 249.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

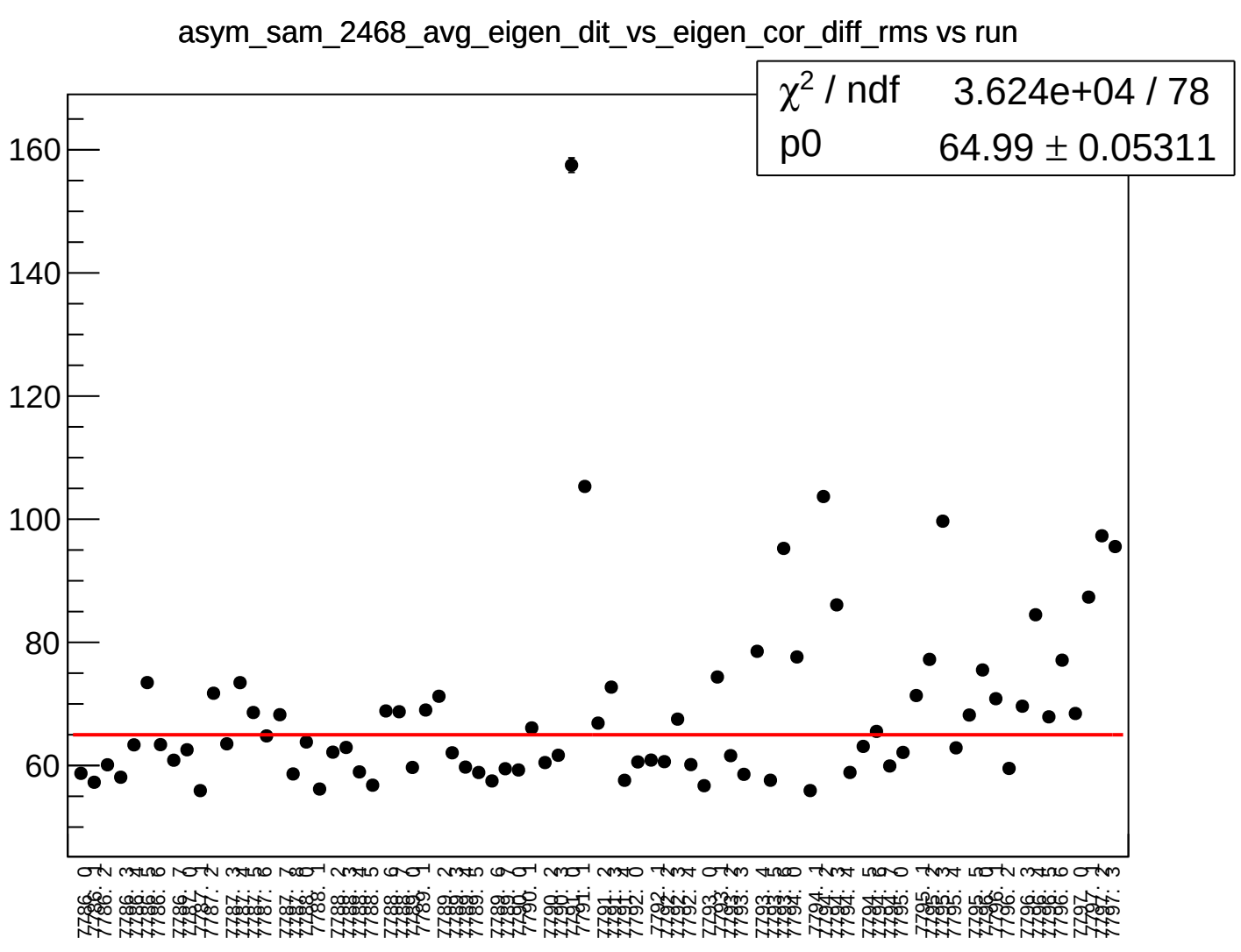

pull1D
Entries 79
Mean −0.004838
Std Dev 0.946
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

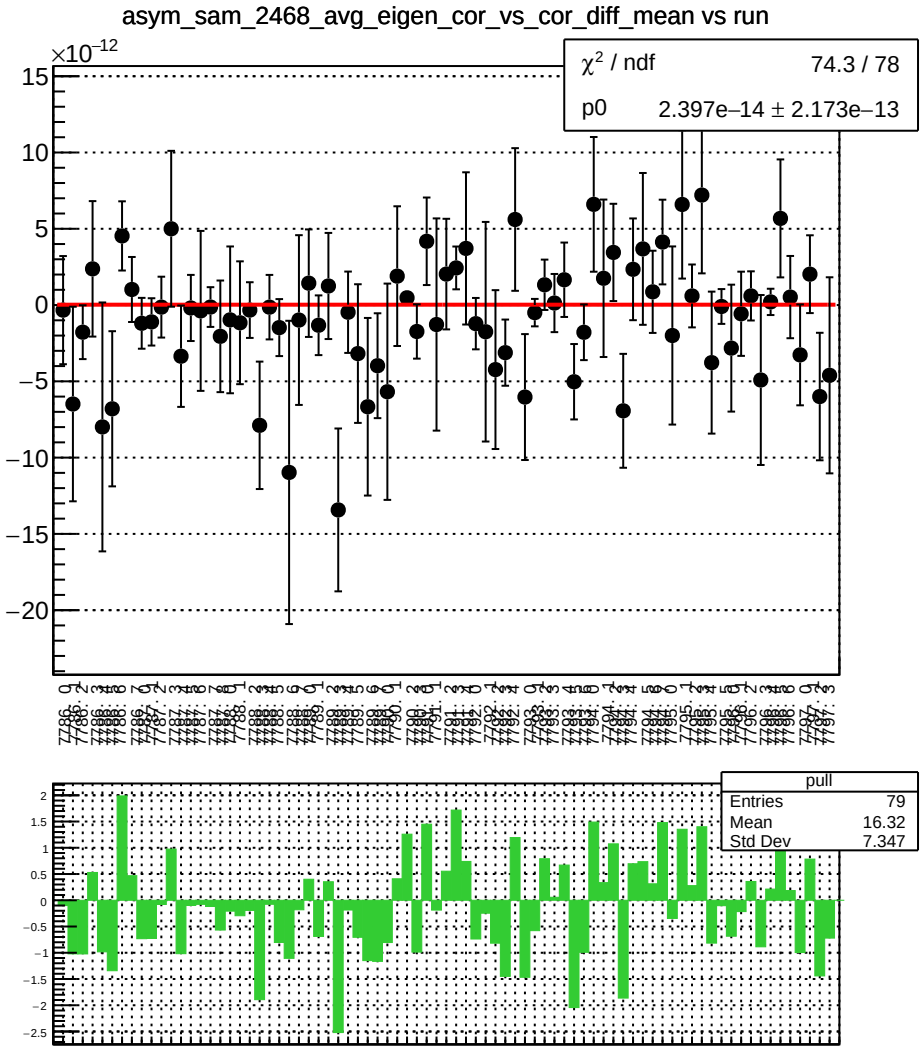

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2358 / 78
p0 0.009548 ± 7.716e−06
0.0105
0.01
0.0095
0.009
0.0085

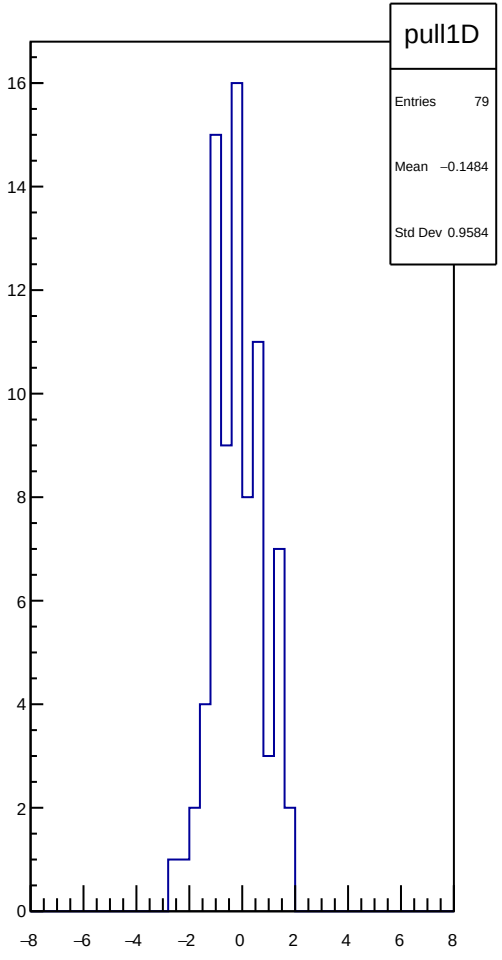

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.96 / 78
p0 −0.04962 ± 0.07511
pull
Entries 79
Mean 7142
Std Dev 0
pull1D
Entries 79
Mean 0.0005114
Std Dev 0.9343

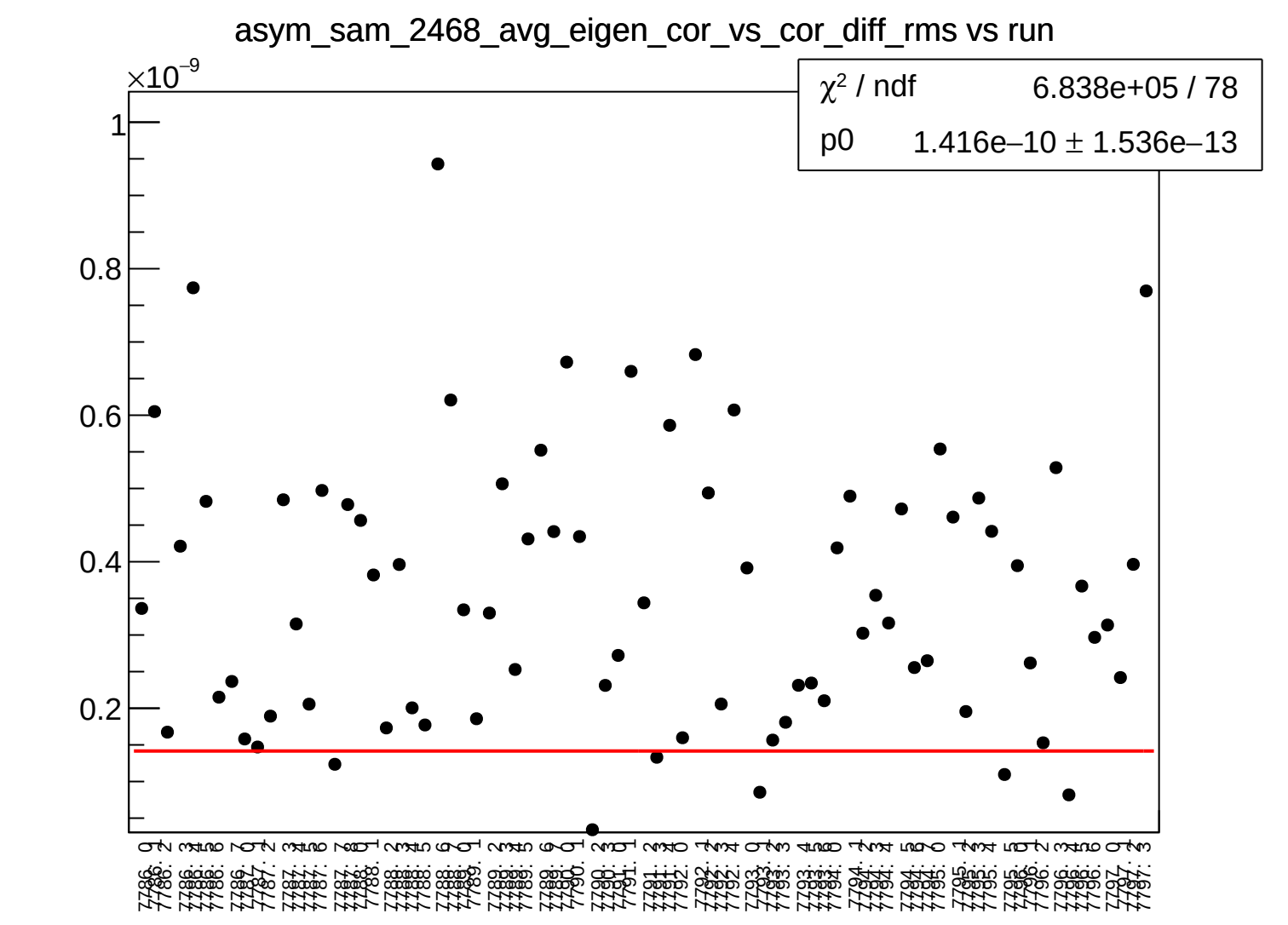

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.624e+04 / 78
p0 64.99 ± 0.05311
160
140
120
100
80
60

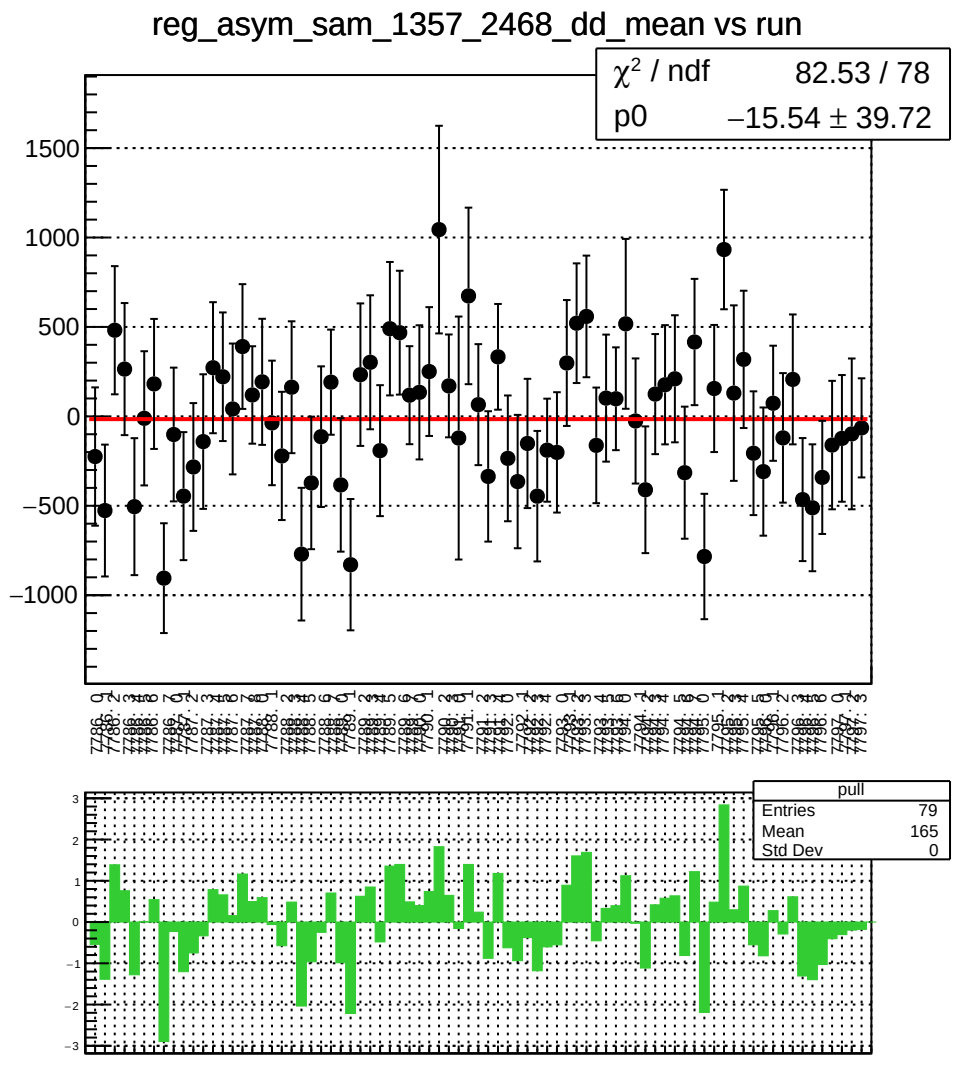

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.96 / 78
p0 −0.04962 ± 0.07511
pull
Entries 79
Mean 7142
Std Dev 0
pull1D
Entries 79
Mean 0.0005114
Std Dev 0.9343

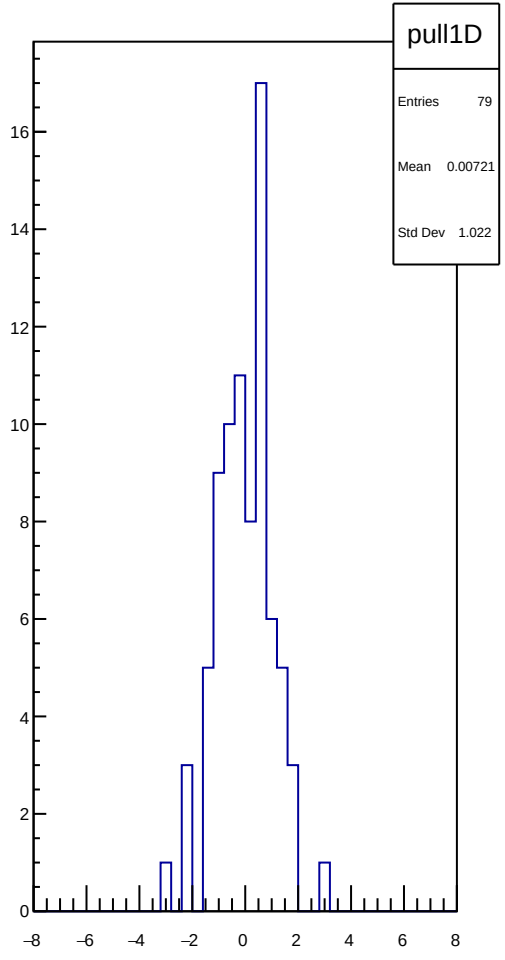

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.624e+04 / 78
p0 64.99 ± 0.05311
160
140
120
100
80
60

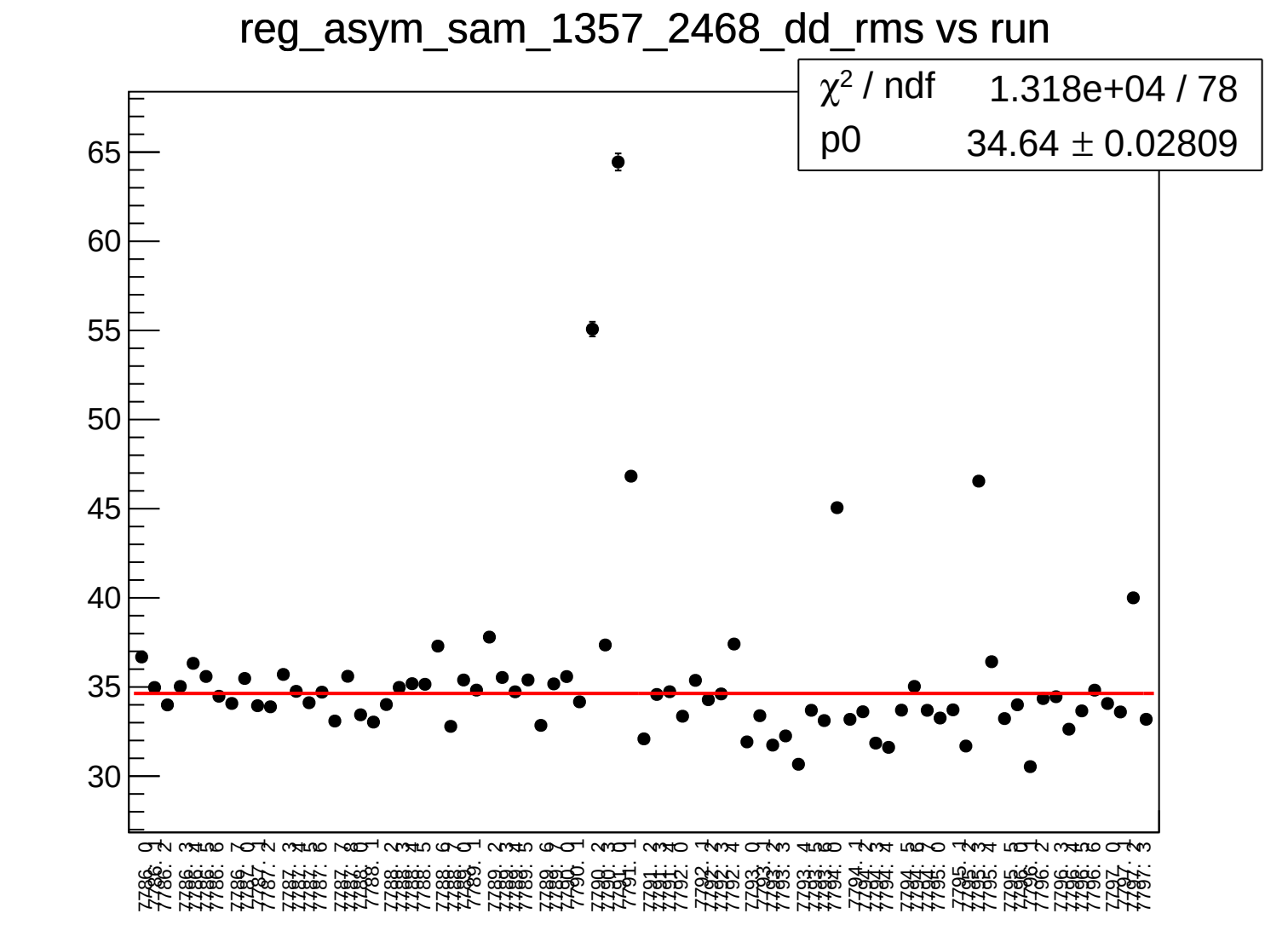

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.3 / 78
p0 2.397e−14 ± 2.173e−13
pull
Entries 79
Mean 16.32
Std Dev 7.347

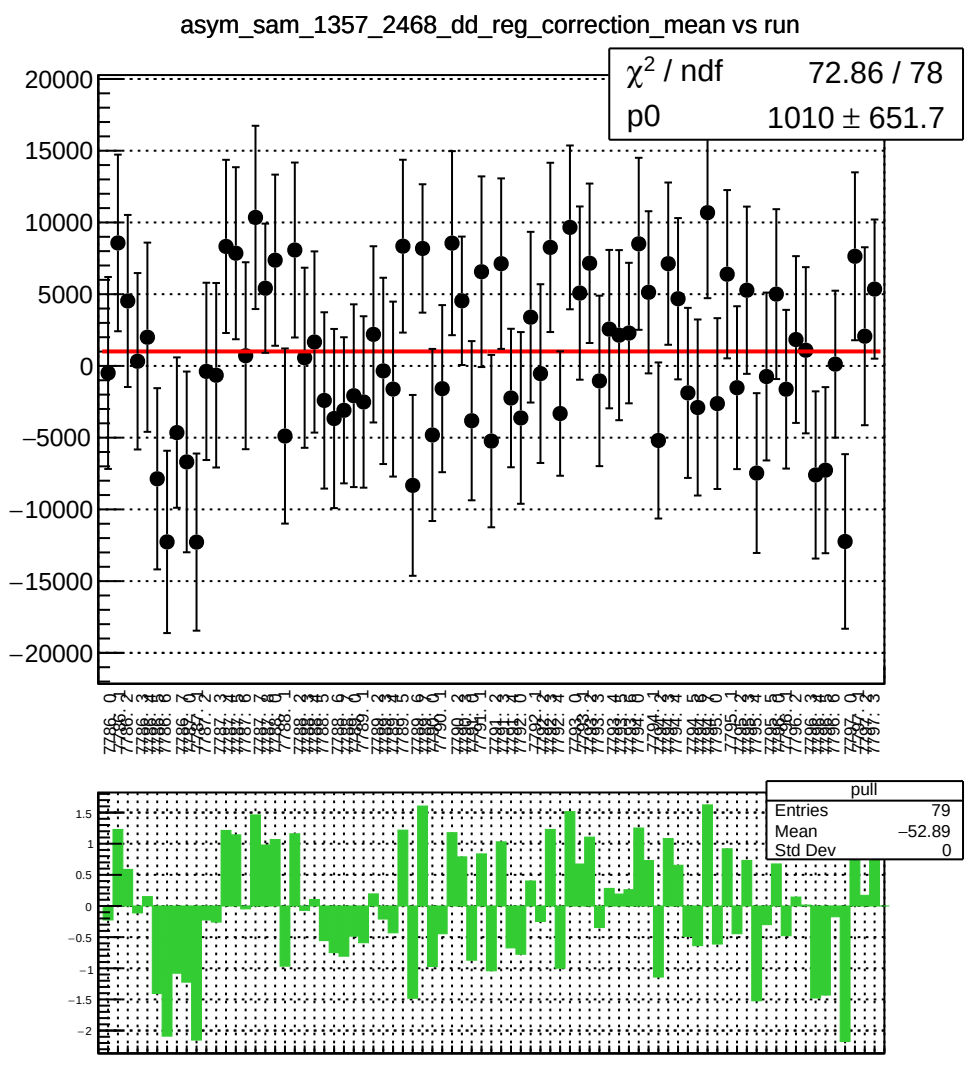

pull1D
Entries 79
Mean −0.1484
Std Dev 0.9584

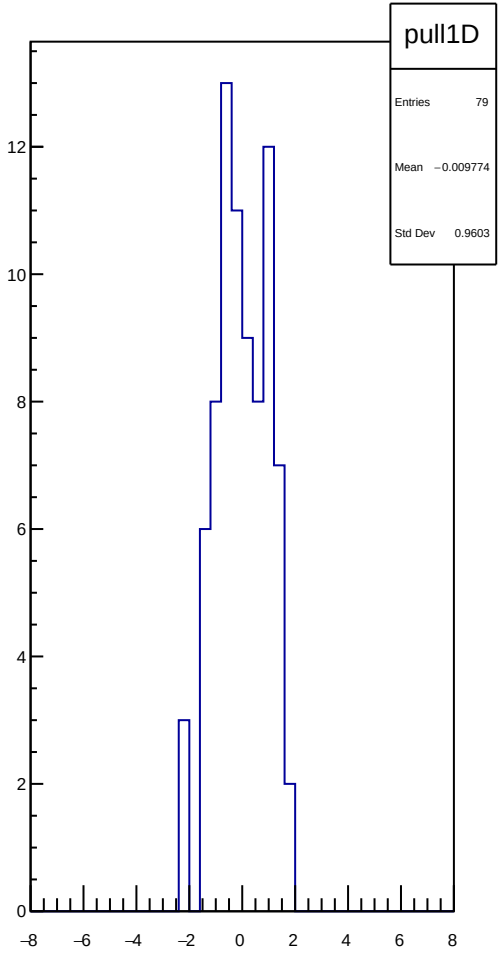

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.838e+05 / 78
p0 1.416e−10 ± 1.536e−13
1
0.8
0.6
0.4
0.2

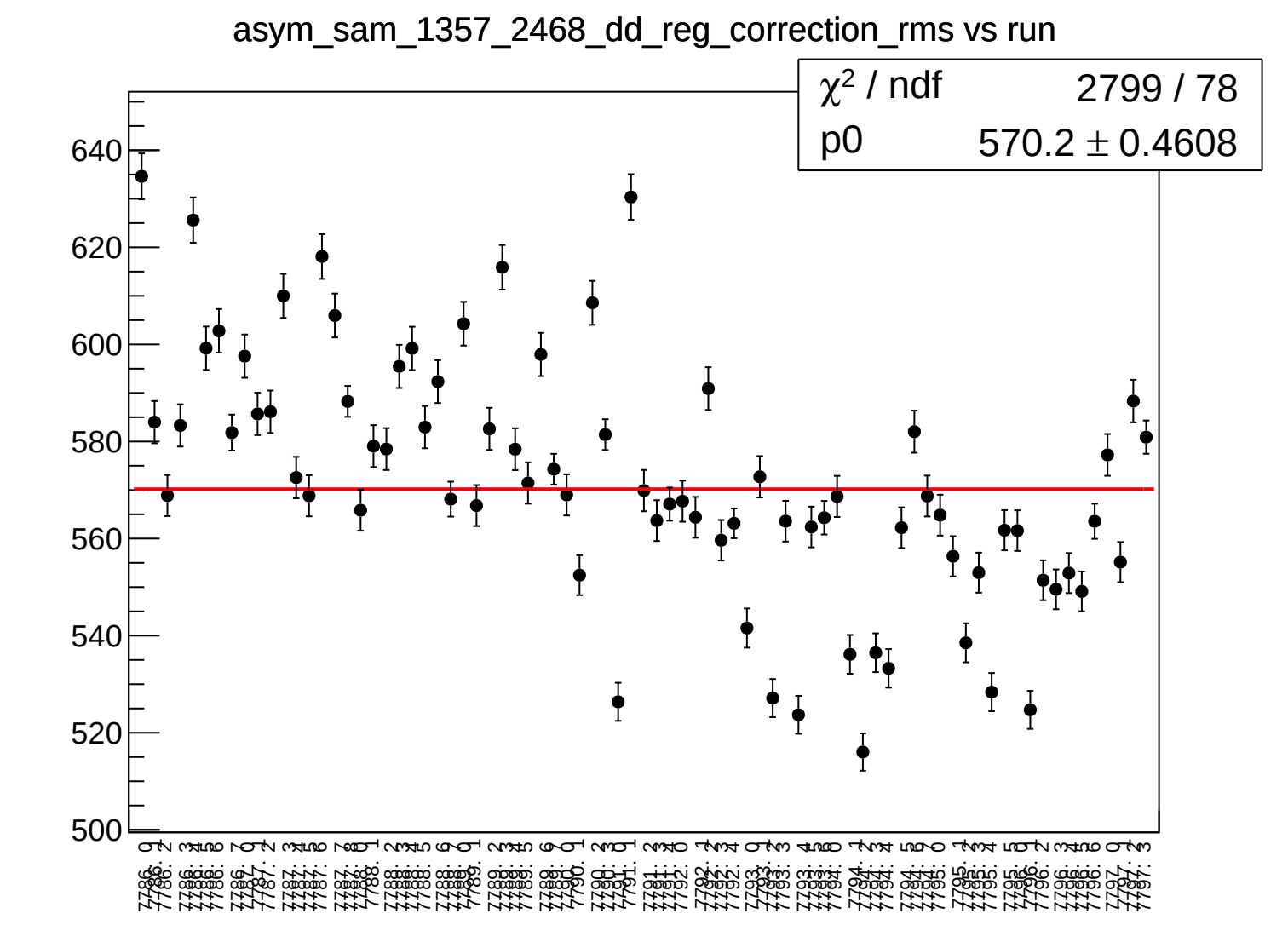

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.53 / 78
p0 −15.54 ± 39.72
1500
1000
500
0
−500
−1000
pull
Entries 79
Mean 165
Std Dev 0
3
2
1
0
−1
−2
−3

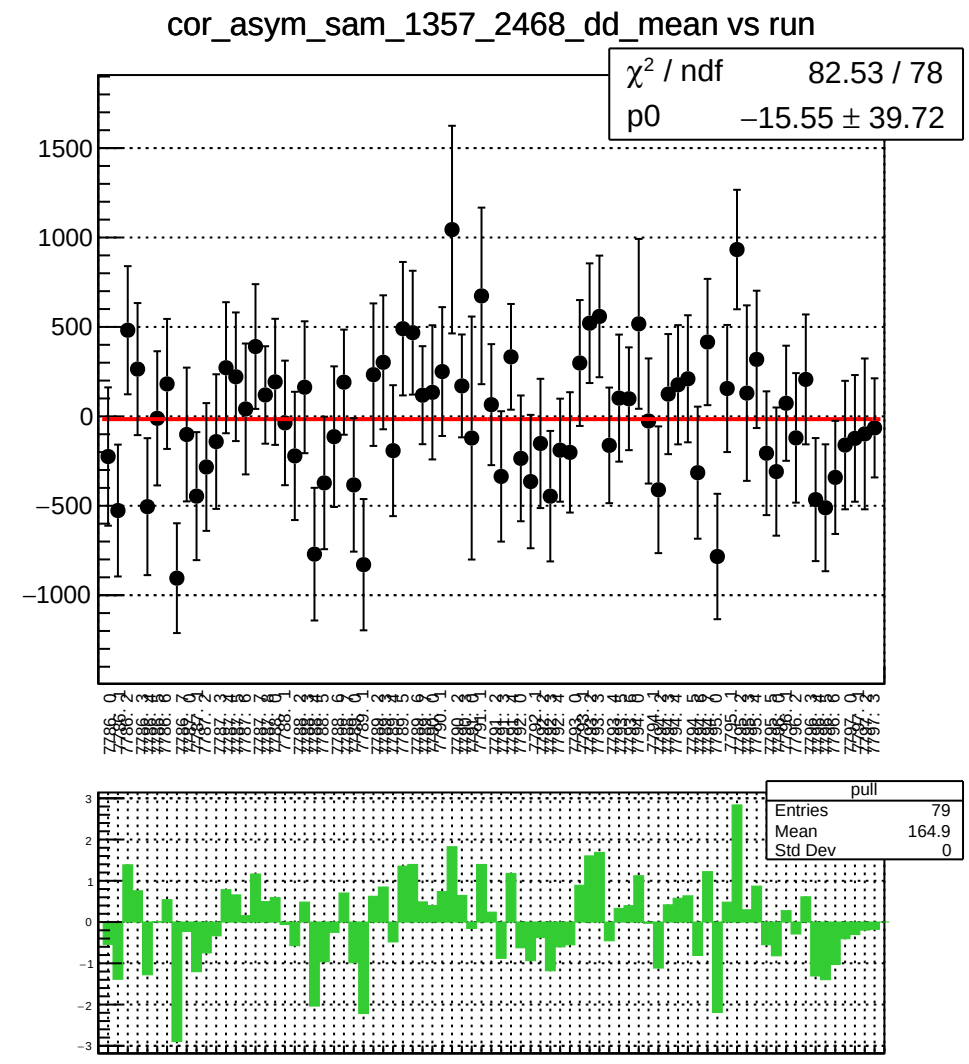

pull1D
Entries 79
Mean 0.00721
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

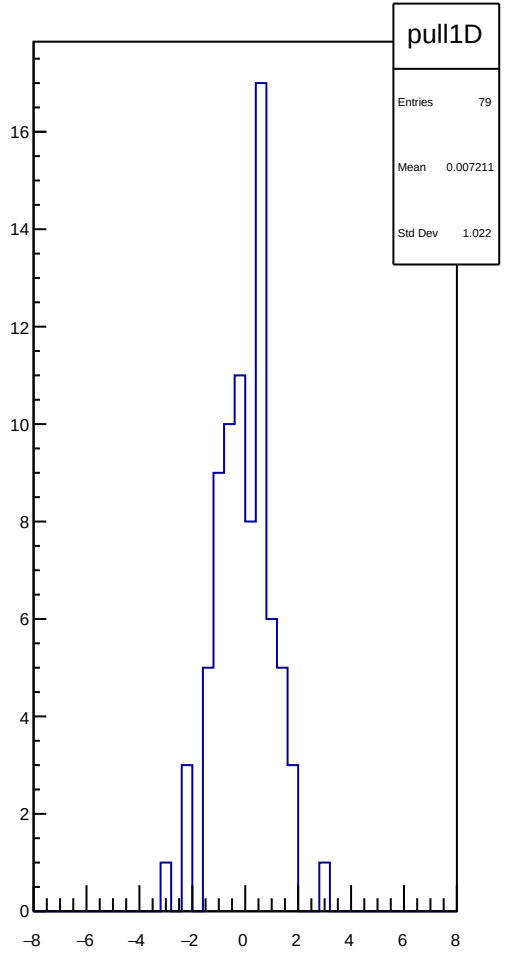

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.318e+04 / 78
p0 34.64 ± 0.02809
65
60
55
50
45
40
35
30

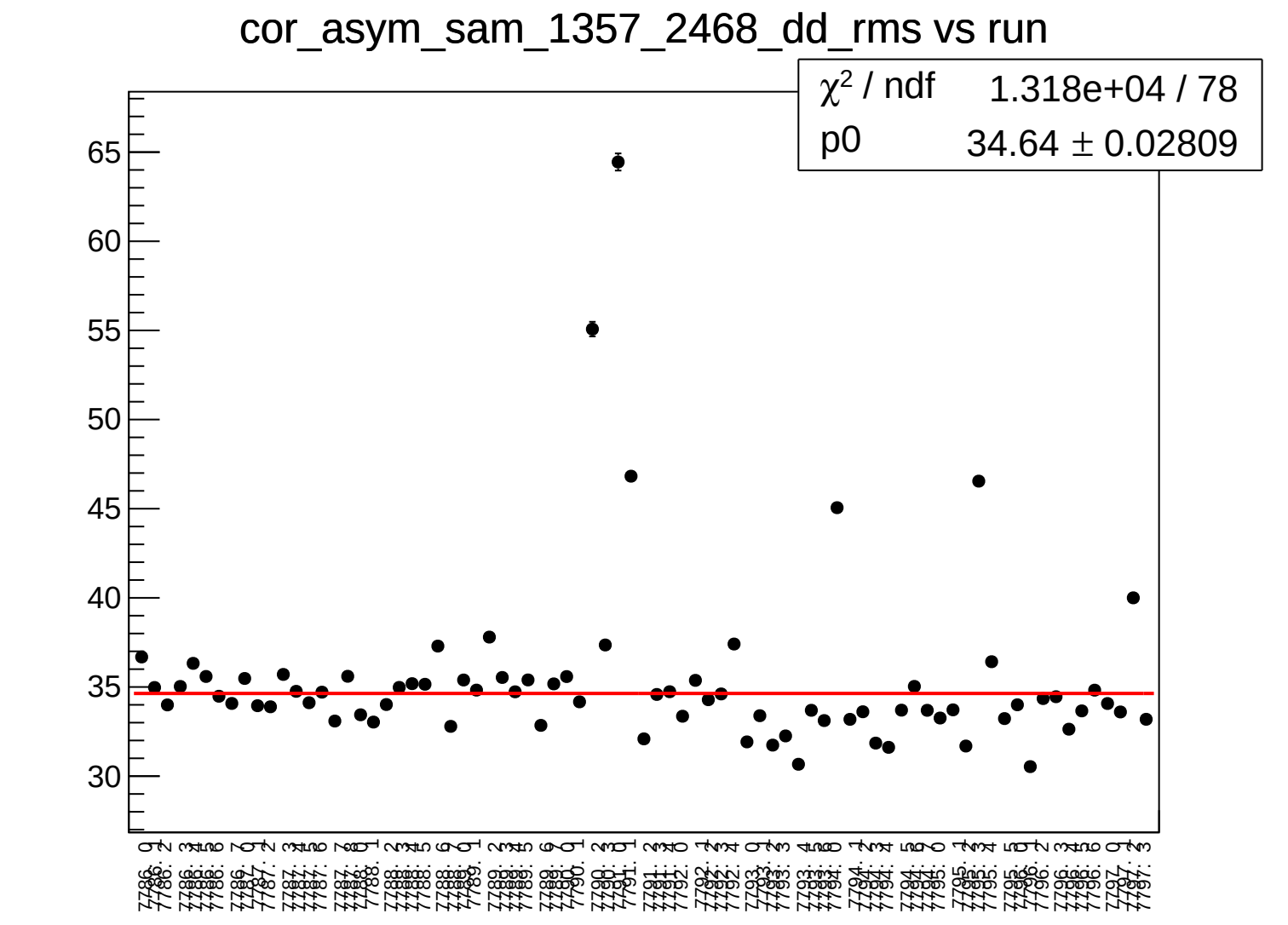

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 72.86 / 78
p0 1010 ± 651.7
pull
Entries 79
Mean −52.89
Std Dev 0

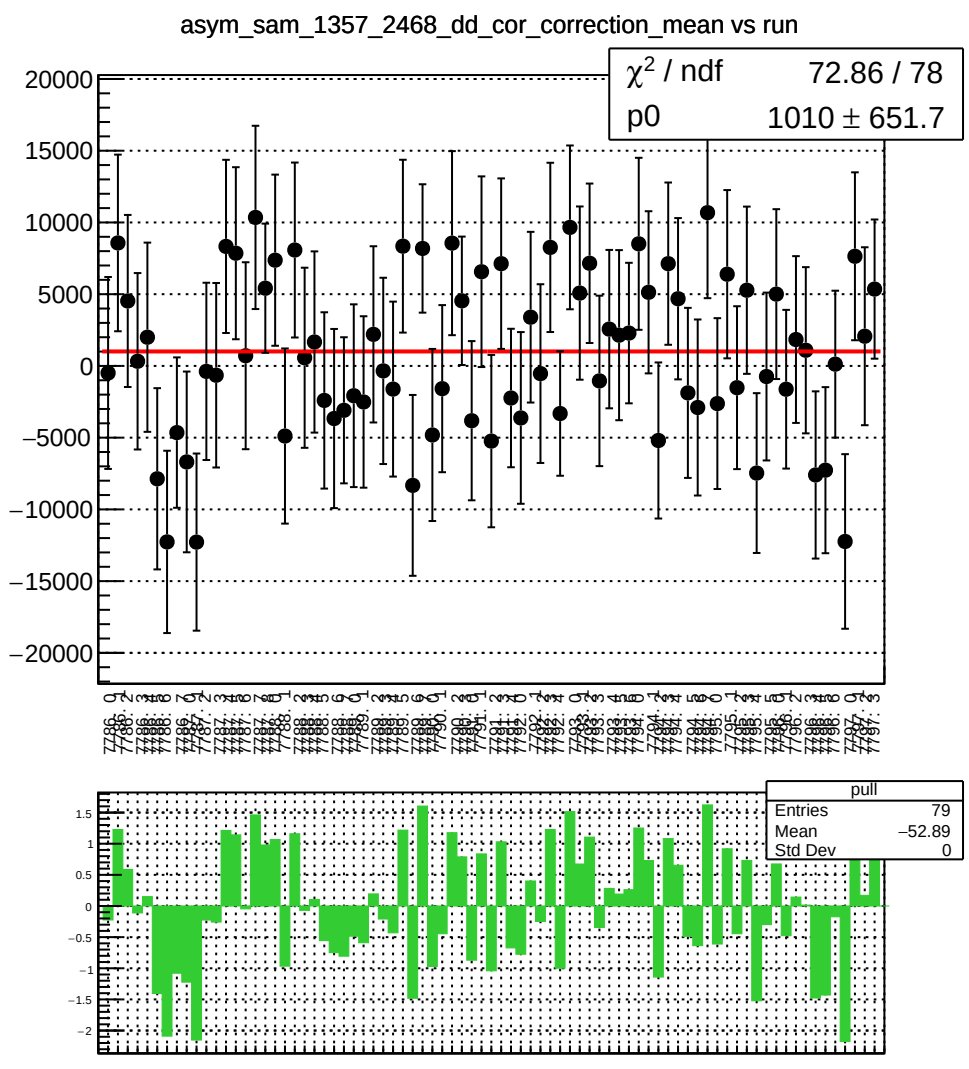

pull1D
Entries 79
Mean −0.009774
Std Dev 0.9603

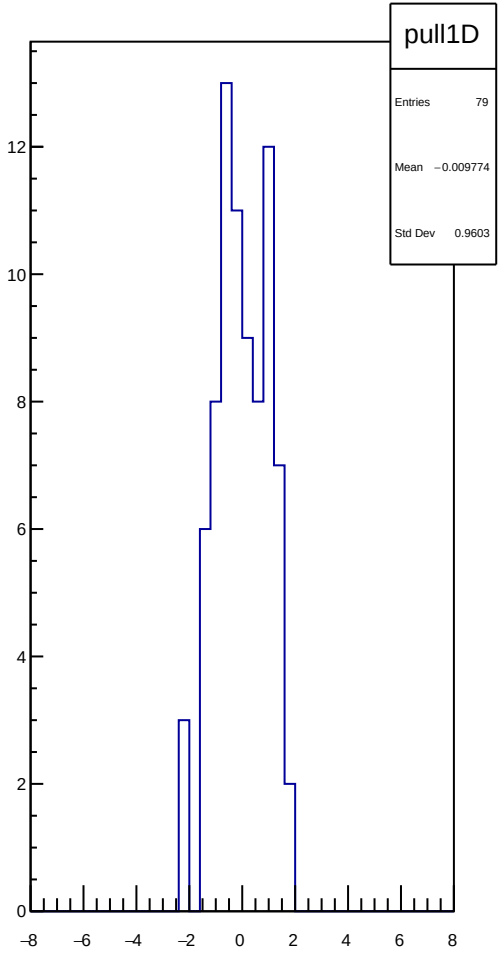

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 2799 / 78
p0 570.2 ± 0.4608
640
620
600
580
560
540
520
500

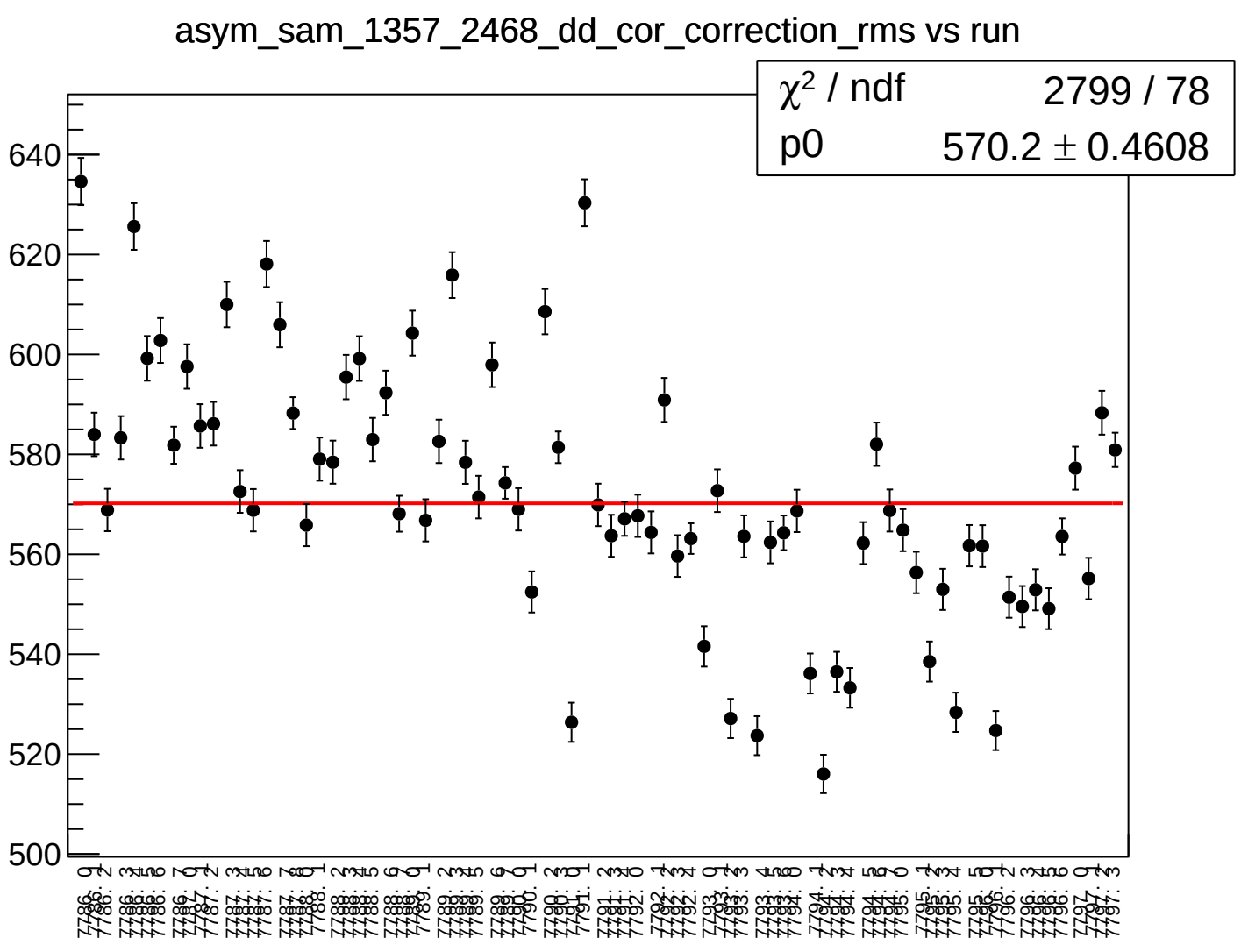

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.53 / 78
p0 −15.55 ± 39.72
1500
1000
500
0
−500
−1000
pull
Entries 79
Mean 164.9
Std Dev 0
3
2
1
0
−1
−2
−3

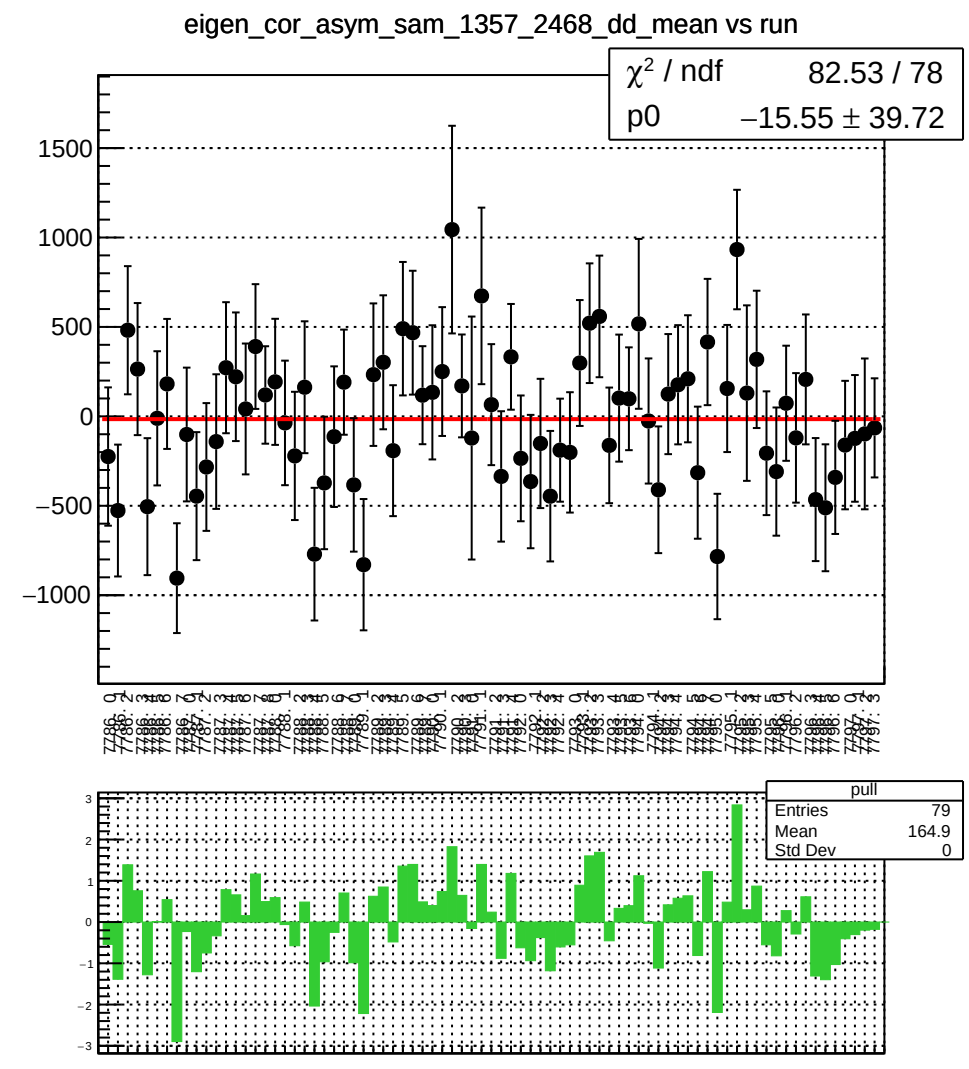

pull1D
Entries 79
Mean 0.007211
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

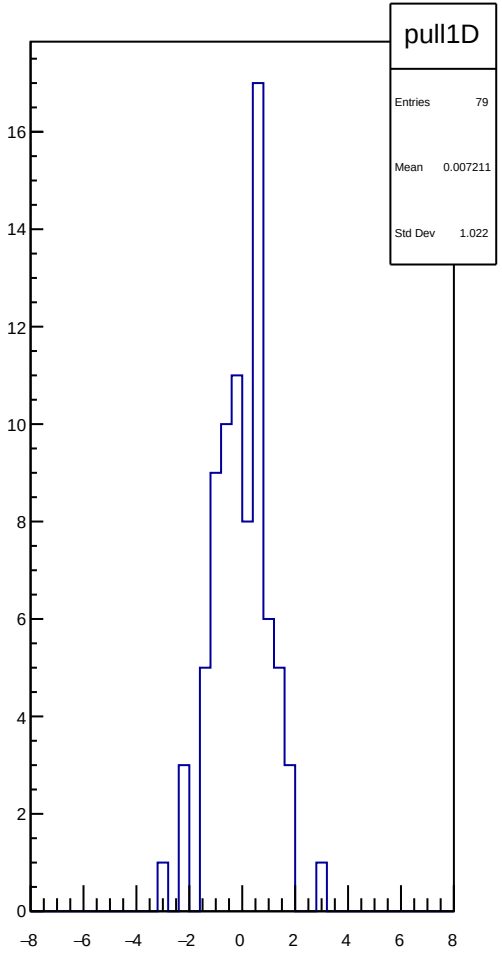

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.318e+04 / 78
p0 34.64 ± 0.02809
65
60
55
50
45
40
35
30

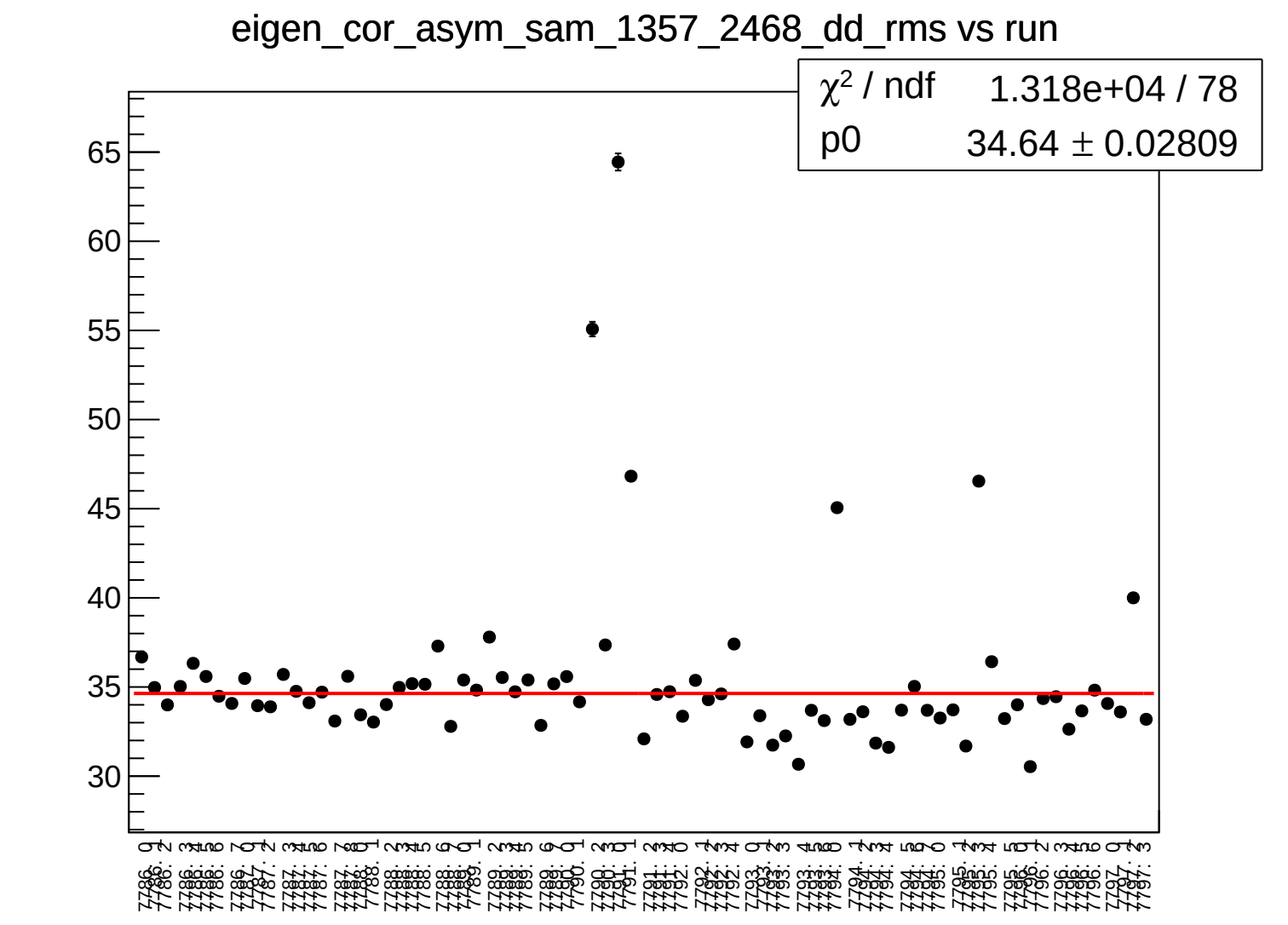

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 72.86 / 78
p0 1010 ± 651.7
pull
Entries 79
Mean −52.89
Std Dev 0

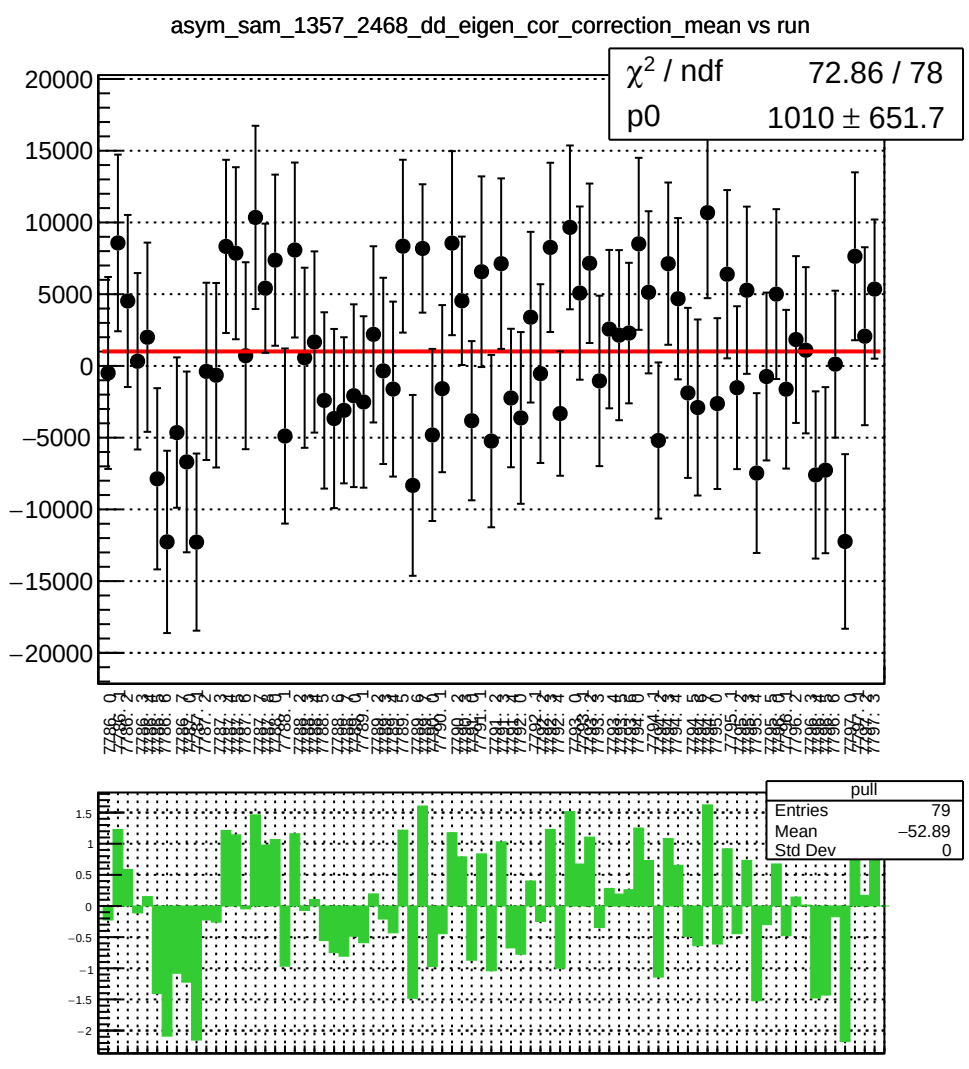

pull1D
Entries 79
Mean −0.009774
Std Dev 0.9603

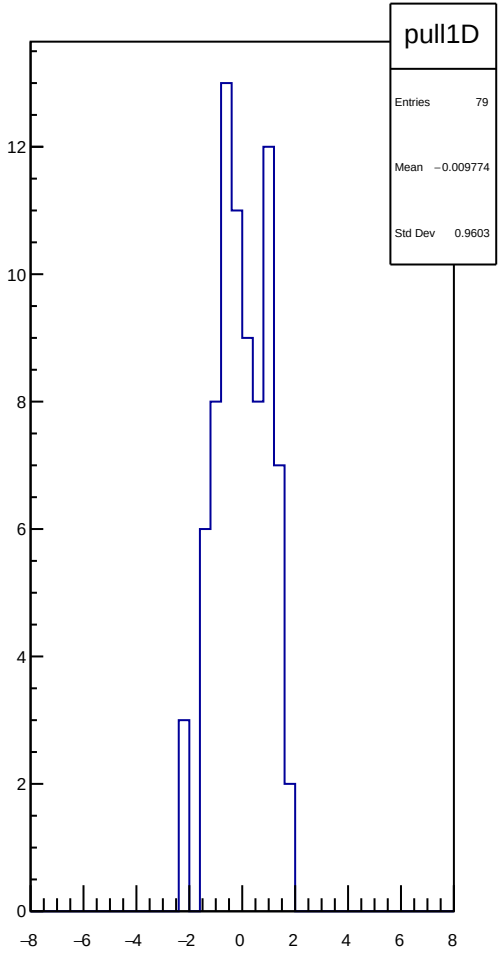

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 2799 / 78
p0 570.2 ± 0.4608
640
620
600
580
560
540
520
500

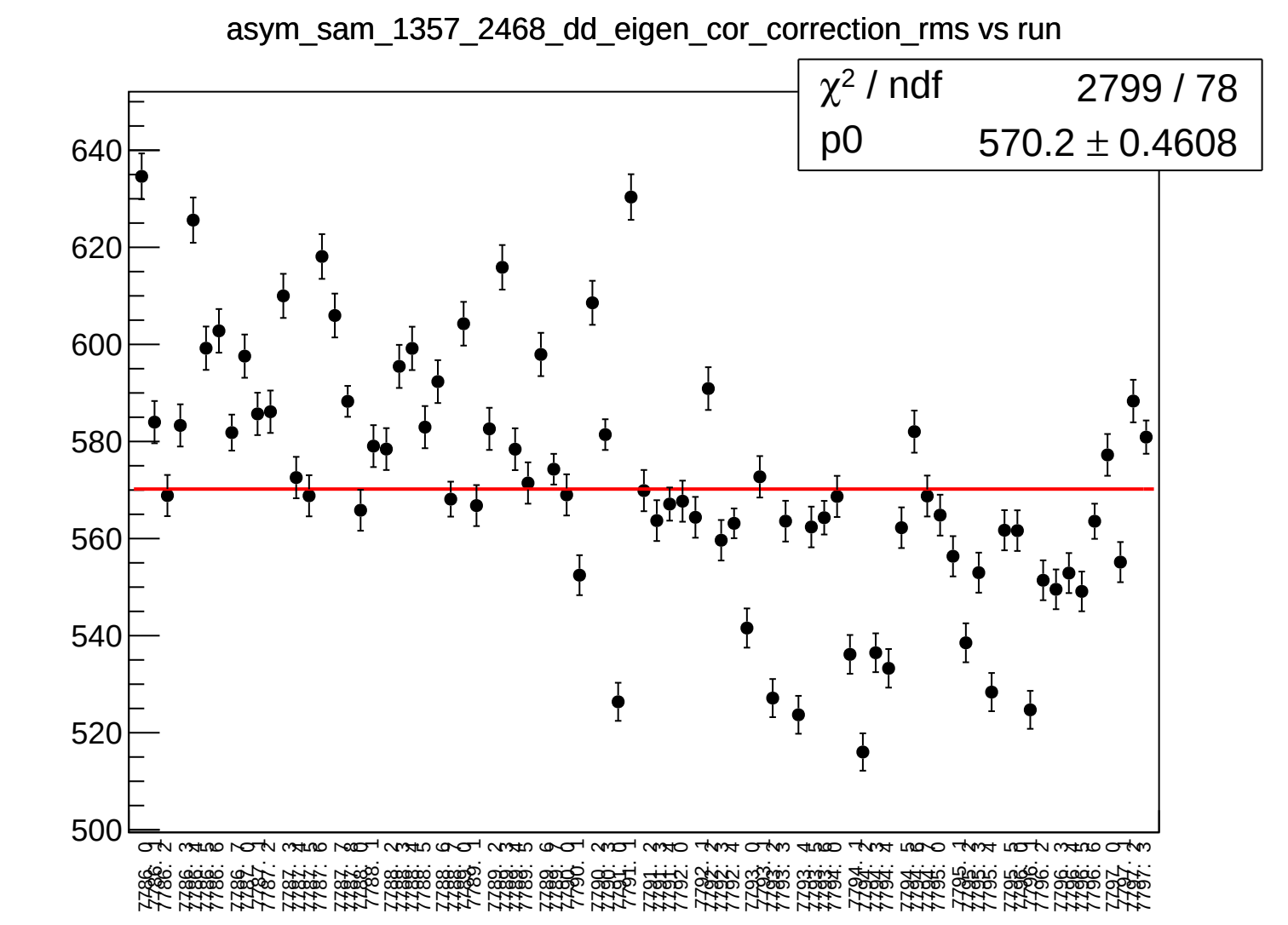

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.53 / 78
p0 −15.55 ± 39.72
1500
1000
500
0
−500
−1000
pull
Entries 79
Mean 164.9
Std Dev 0
3
2
1
0
−1
−2
−3

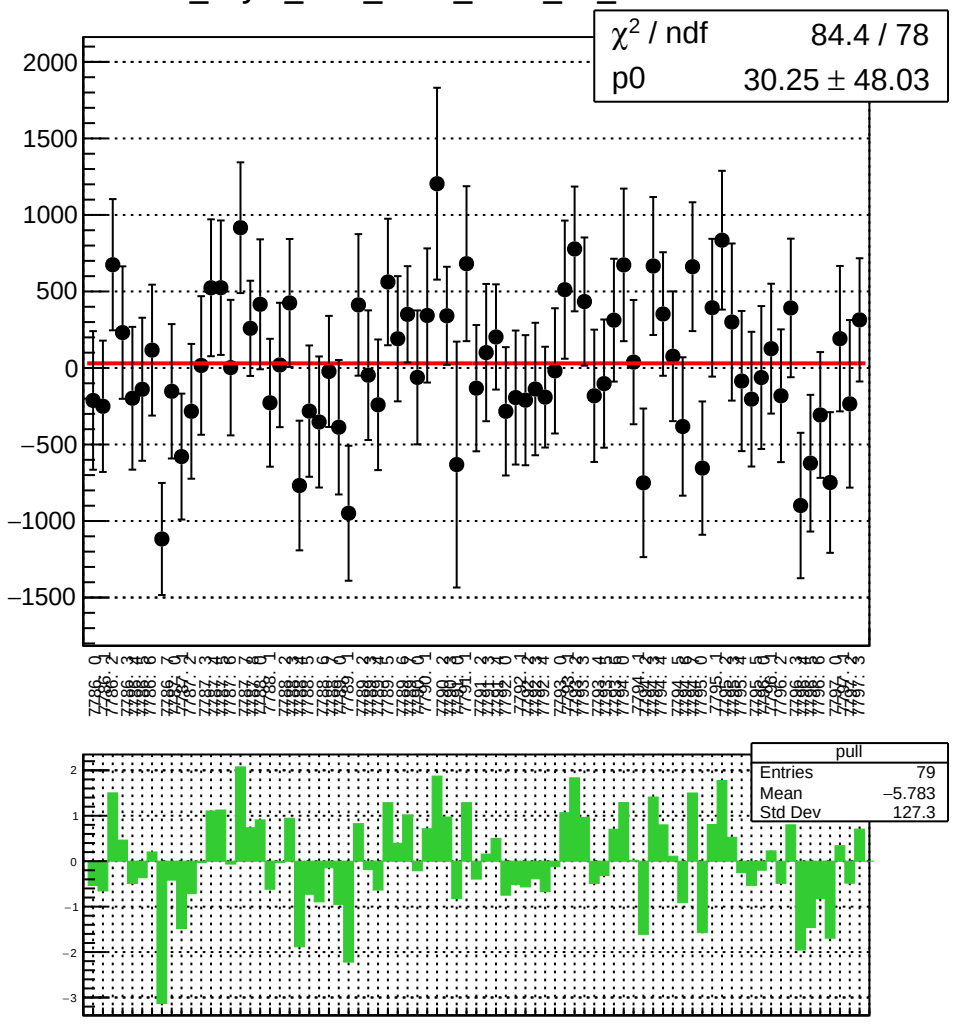

pull1D
Entries 79
Mean 0.007211
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

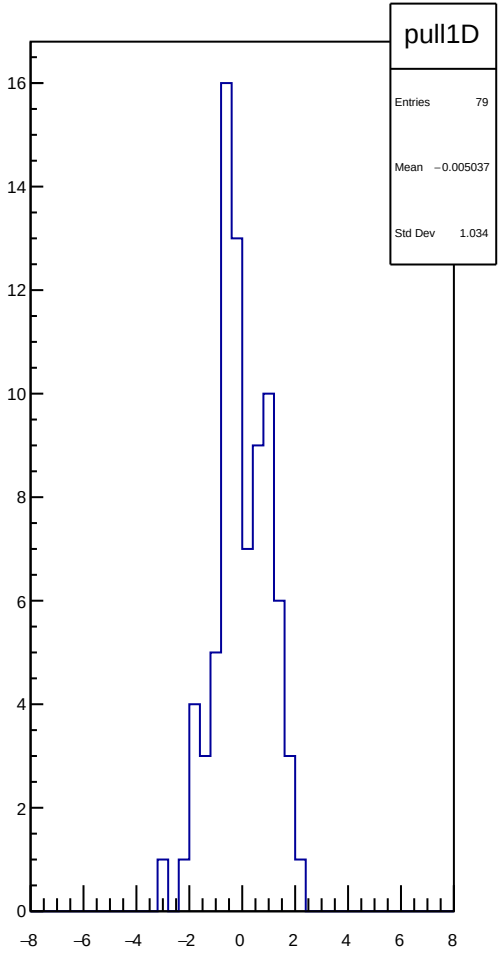

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.318e+04 / 78
p0 34.64 ± 0.02809
65
60
55
50
45
40
35
30

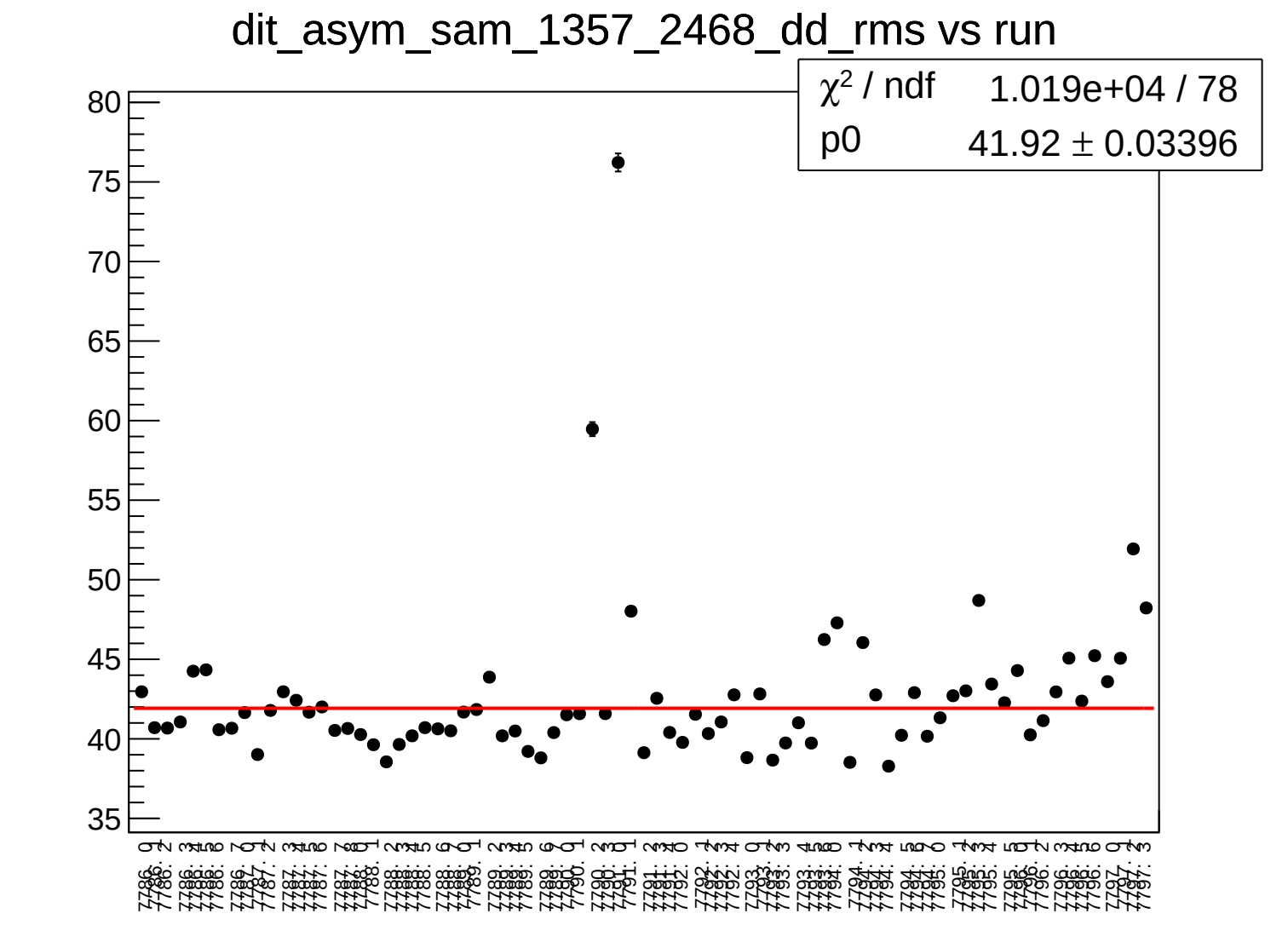

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.86 / 78
p0 1010 ± 651.7
pull
Entries 79
Mean −52.89
Std Dev 0

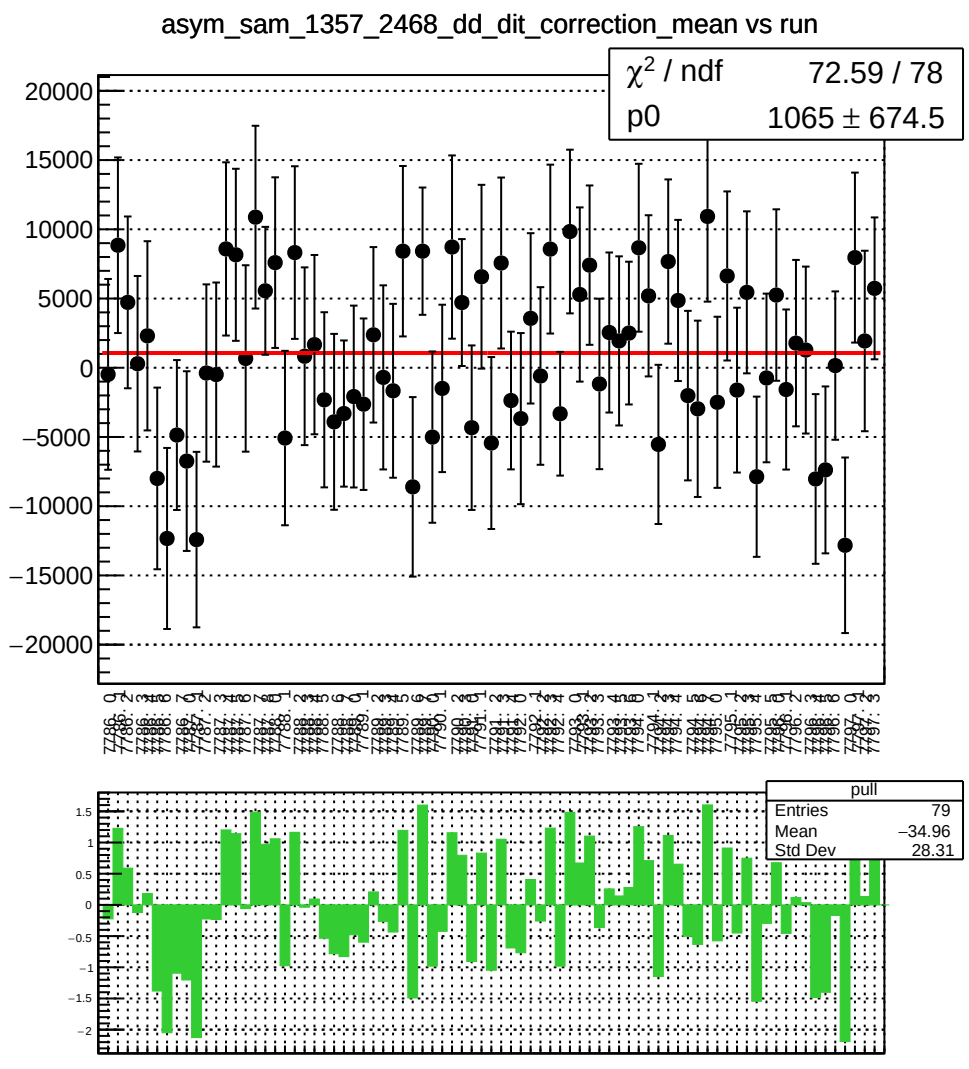

pull1D
Entries 79
Mean −0.009774
Std Dev 0.9603

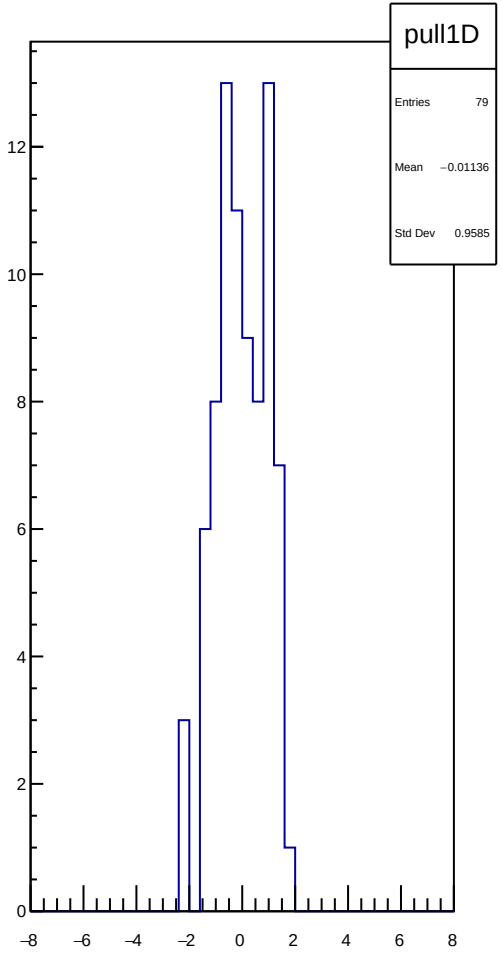

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 2799 / 78
p0 570.2 ± 0.4608
640
620
600
580
560
540
520
500

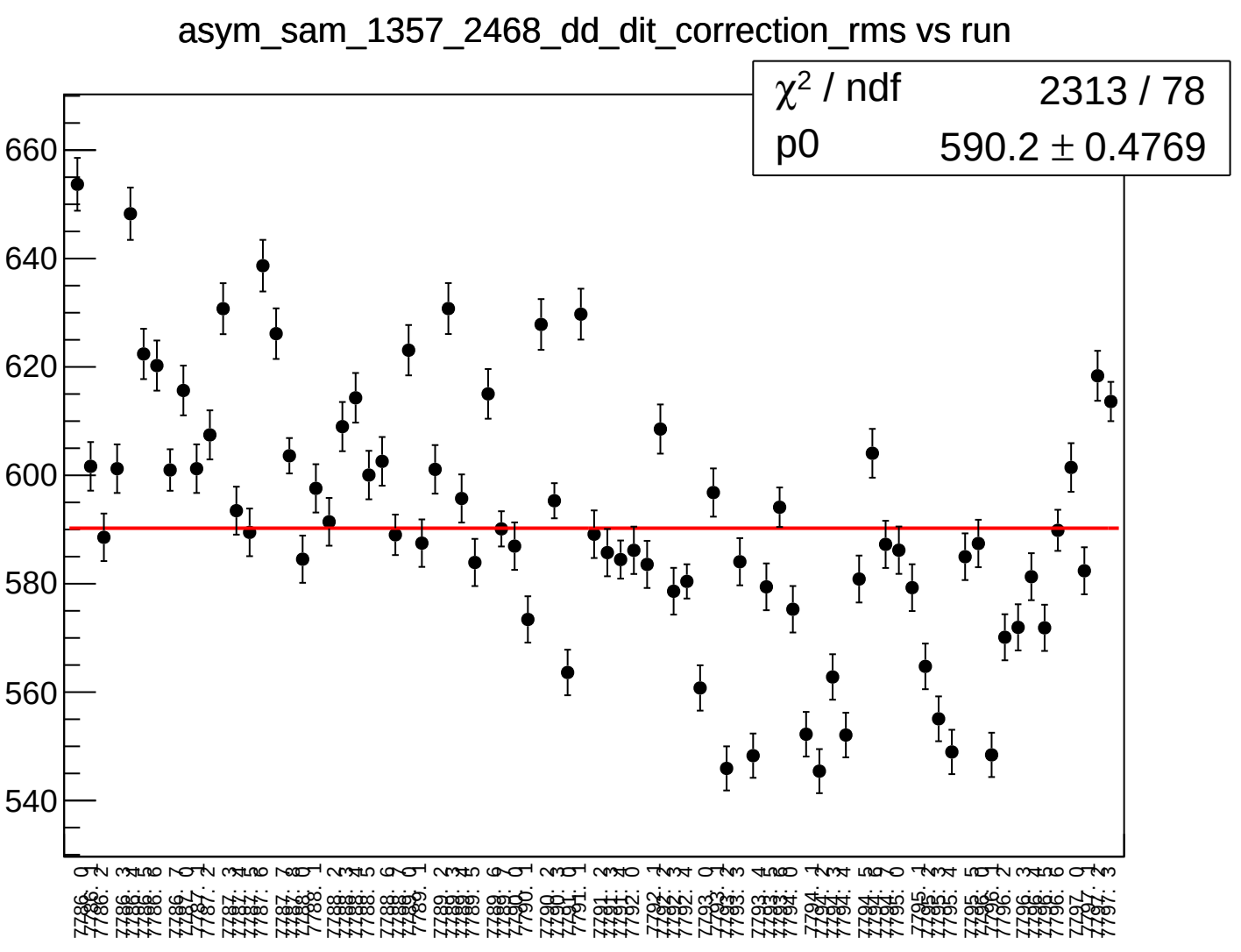

dit_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 84.4 / 78
p0 30.25 ± 48.03
pull
Entries 79
Mean −5.783
Std Dev 127.3

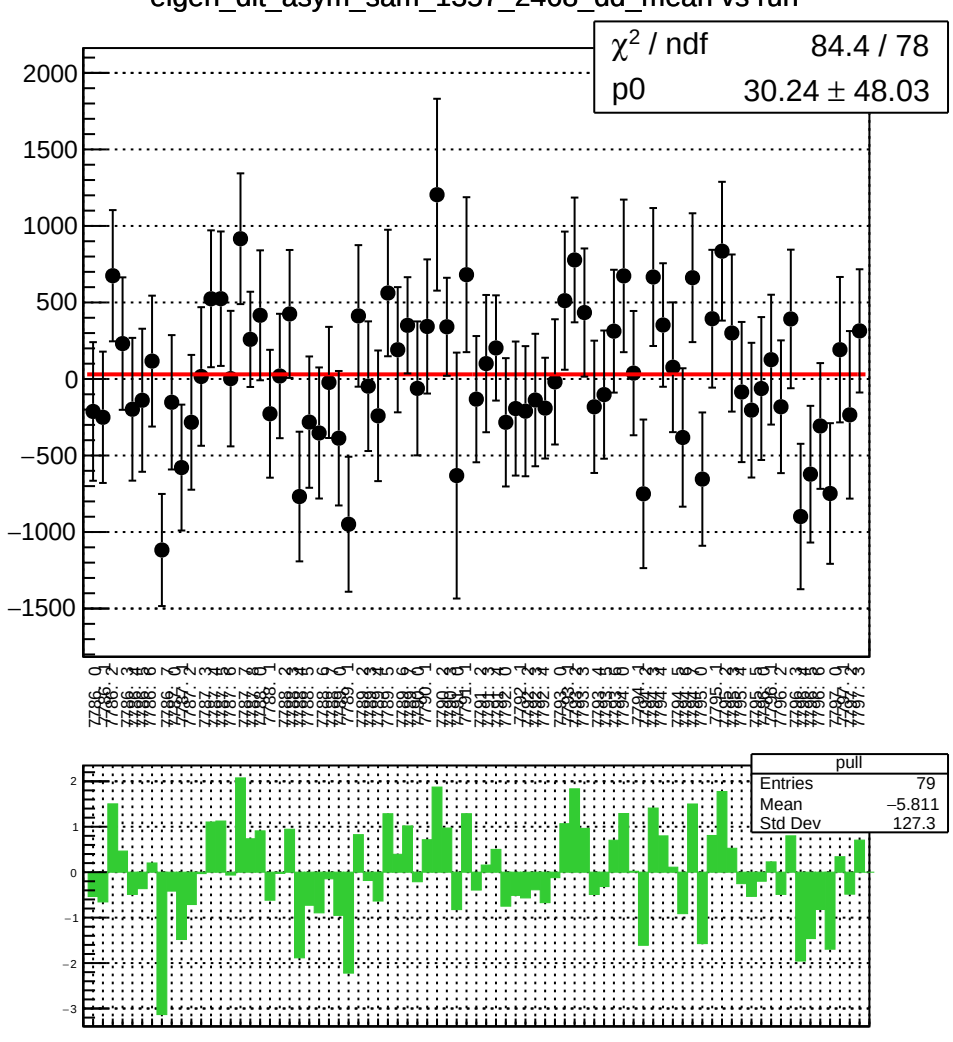

pull1D
Entries 79
Mean −0.005037
Std Dev 1.034

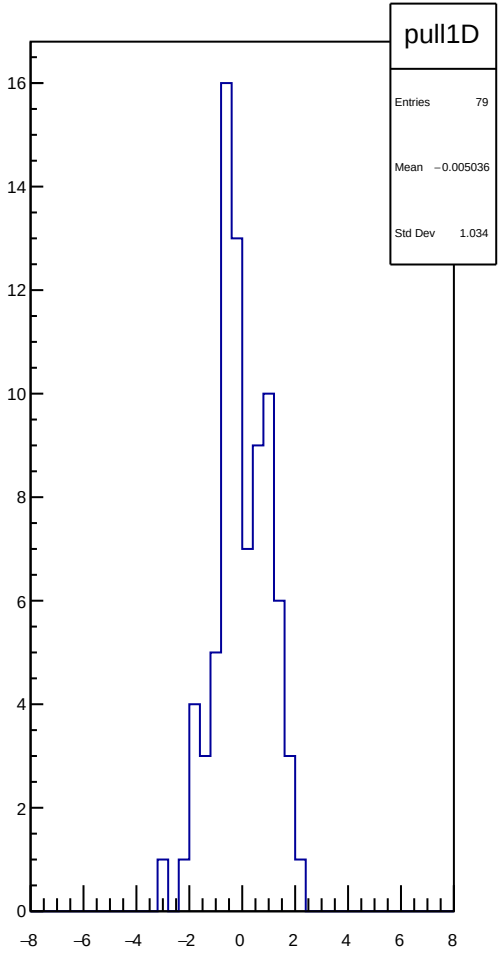

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.019e+04 / 78
p0 41.92 ± 0.03396
80
75
70
65
60
55
50
45
40
35

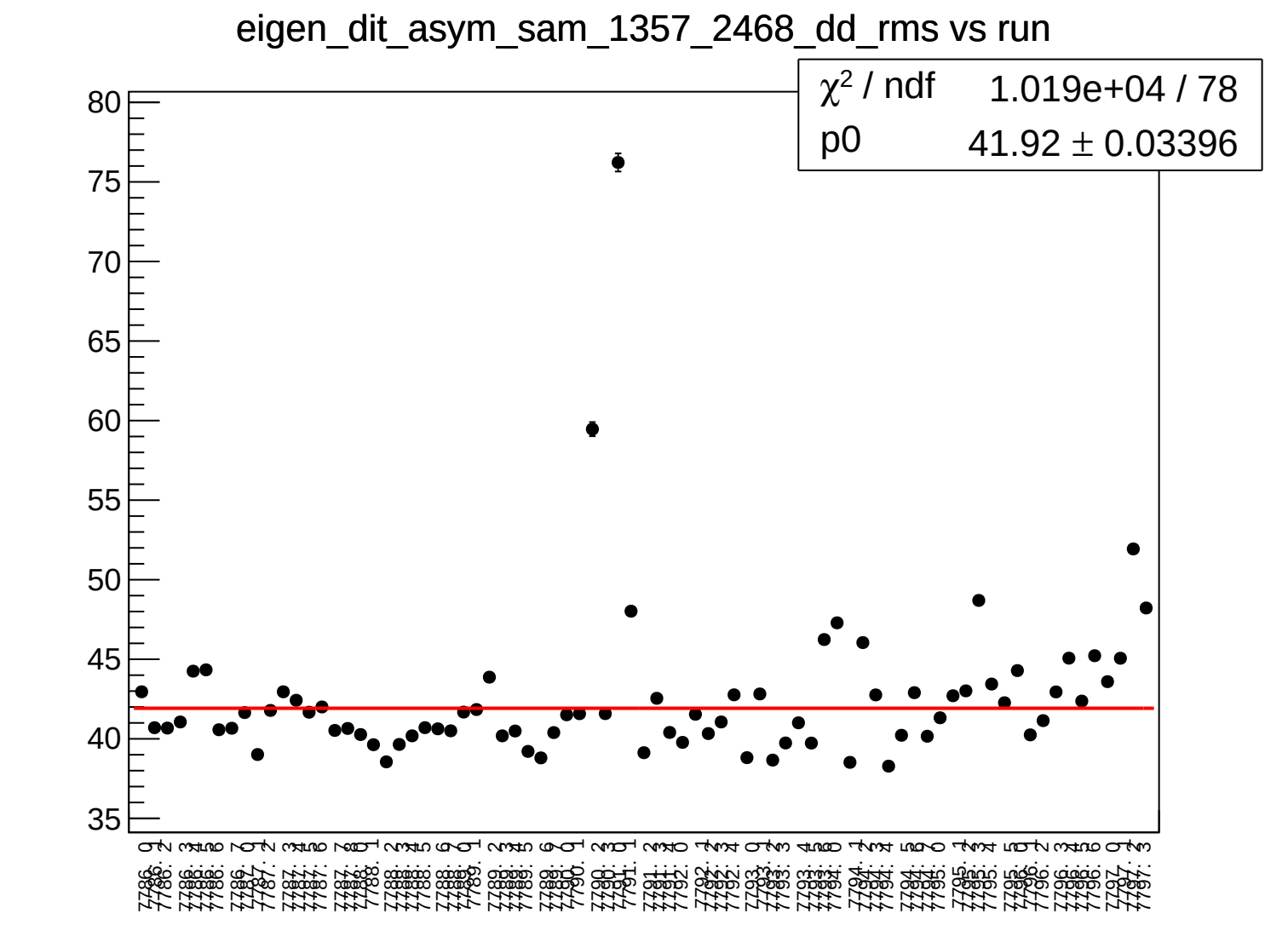

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 72.59 / 78
p0 1065 ± 674.5
pull
Entries 79
Mean −34.96
Std Dev 28.31

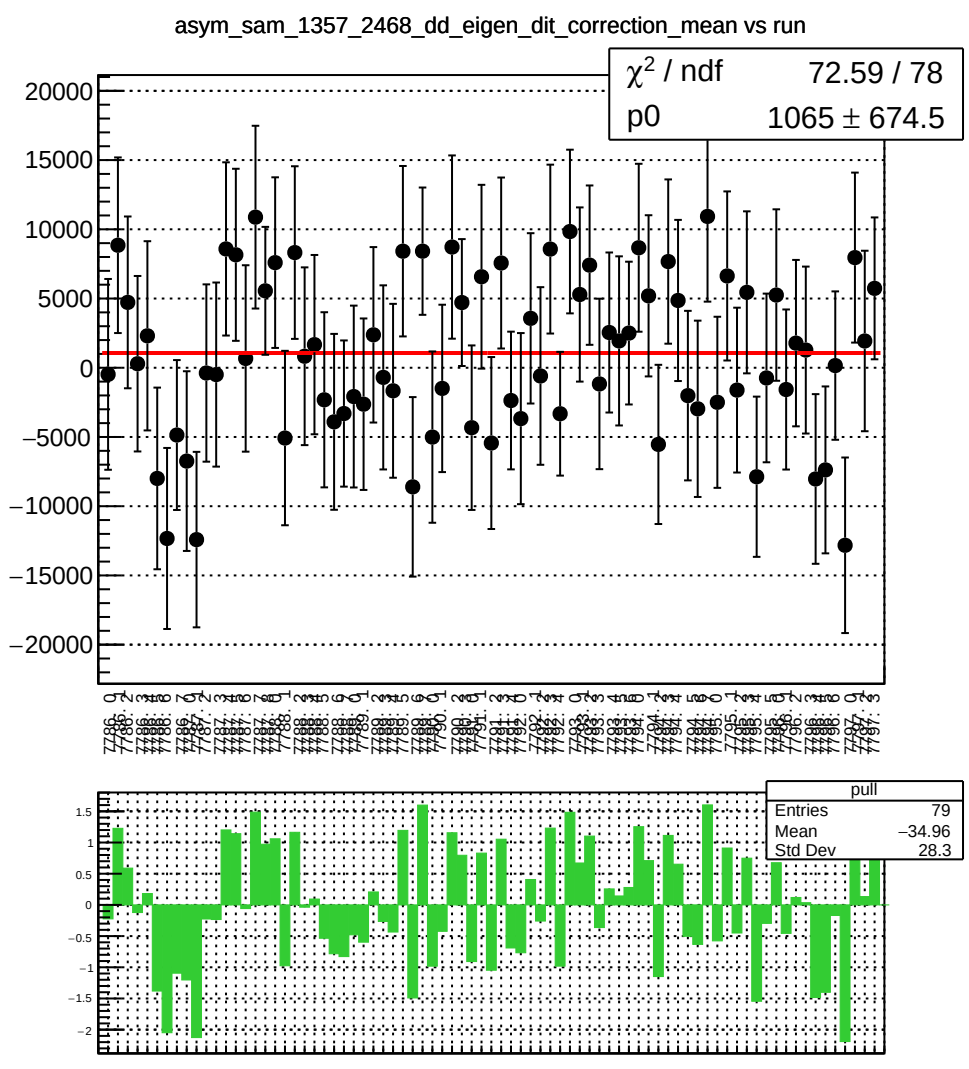

pull1D
Entries 79
Mean −0.01136
Std Dev 0.9585

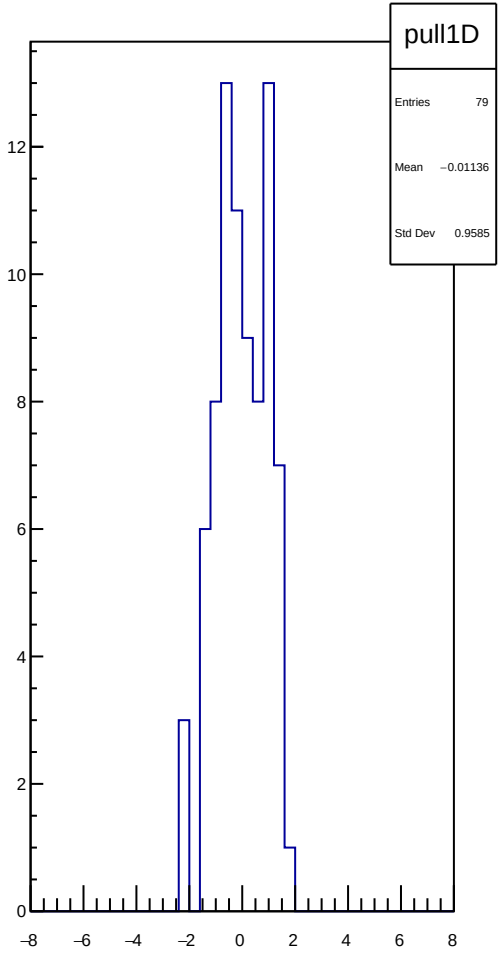

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2313 / 78
p0 590.2 ± 0.4769
660
640
620
600
580
560
540

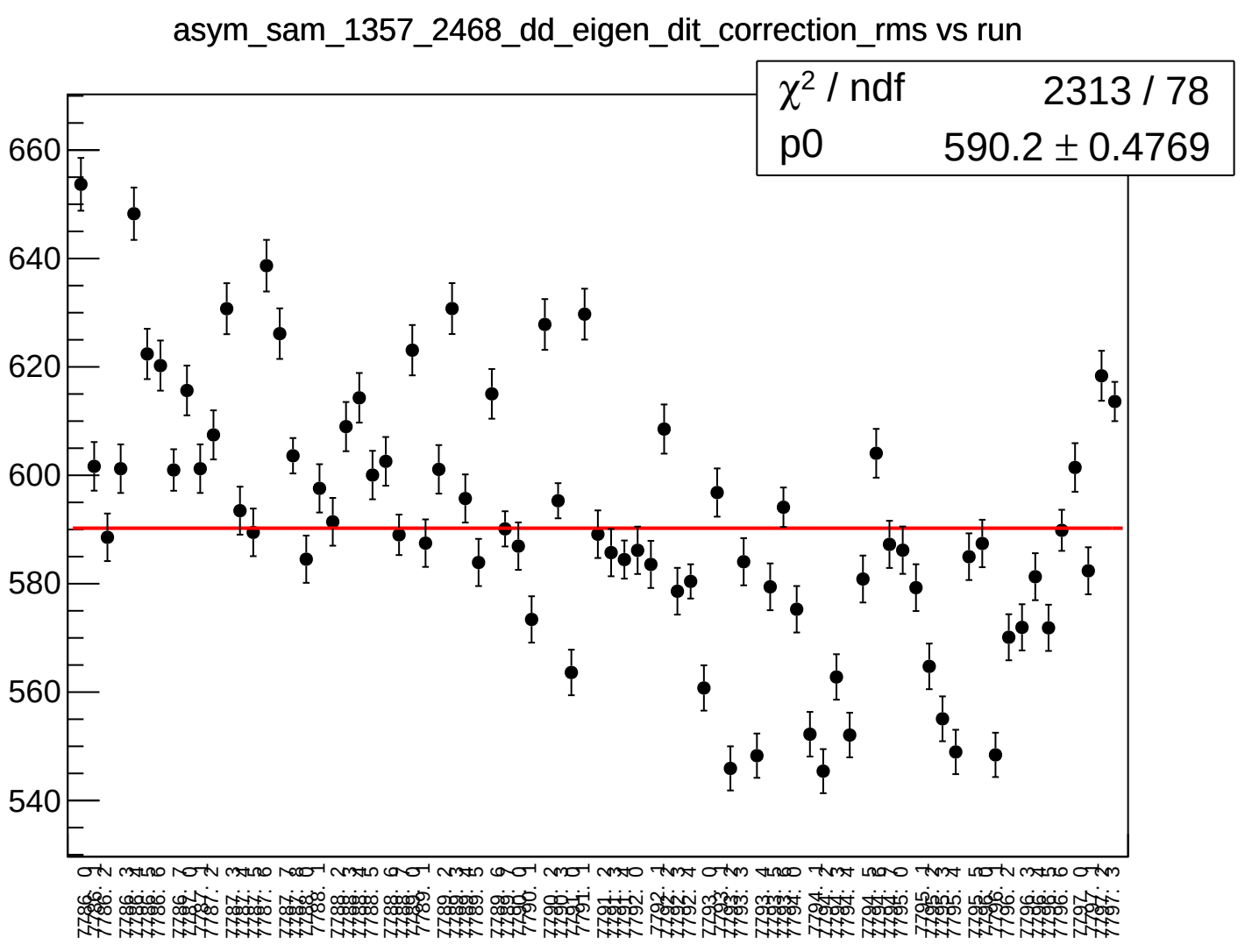

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 84.4 / 78
p0 30.24 ± 48.03
pull
Entries 79
Mean −5.811
Std Dev 127.3

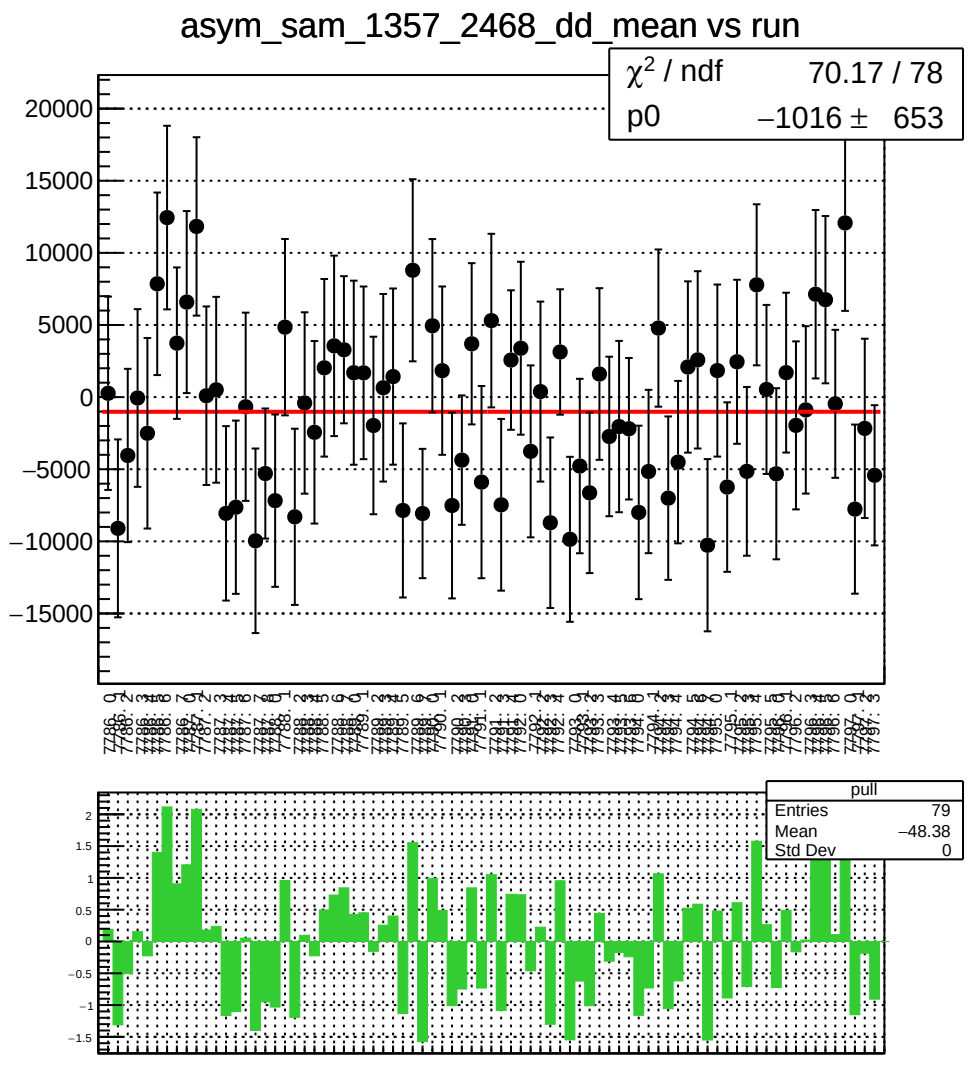

pull1D
Entries 79
Mean −0.005036
Std Dev 1.034

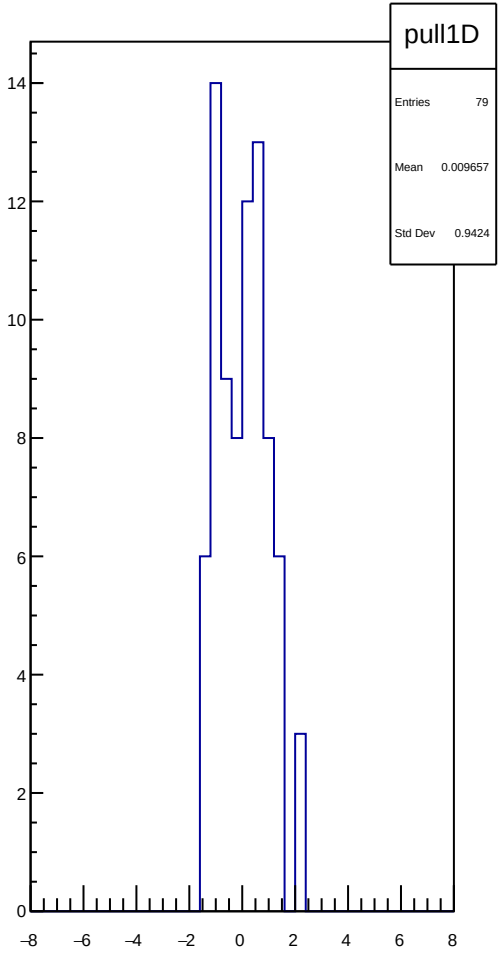

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.019e+04 / 78
p0 41.92 ± 0.03396
80
75
70
65
60
55
50
45
40
35

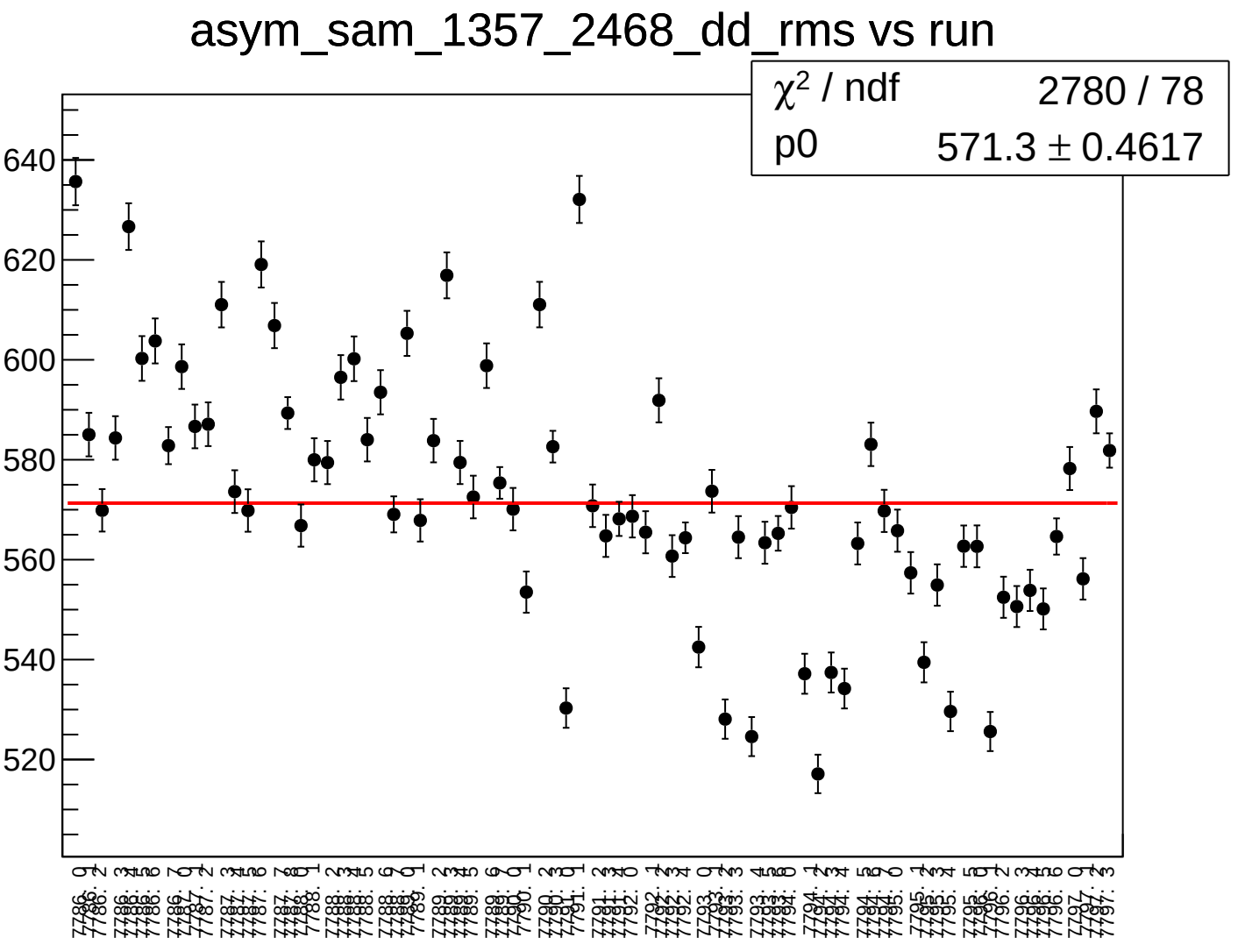

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.59 / 78
p0 1065 ± 674.5
pull
Entries 79
Mean −34.96
Std Dev 28.3

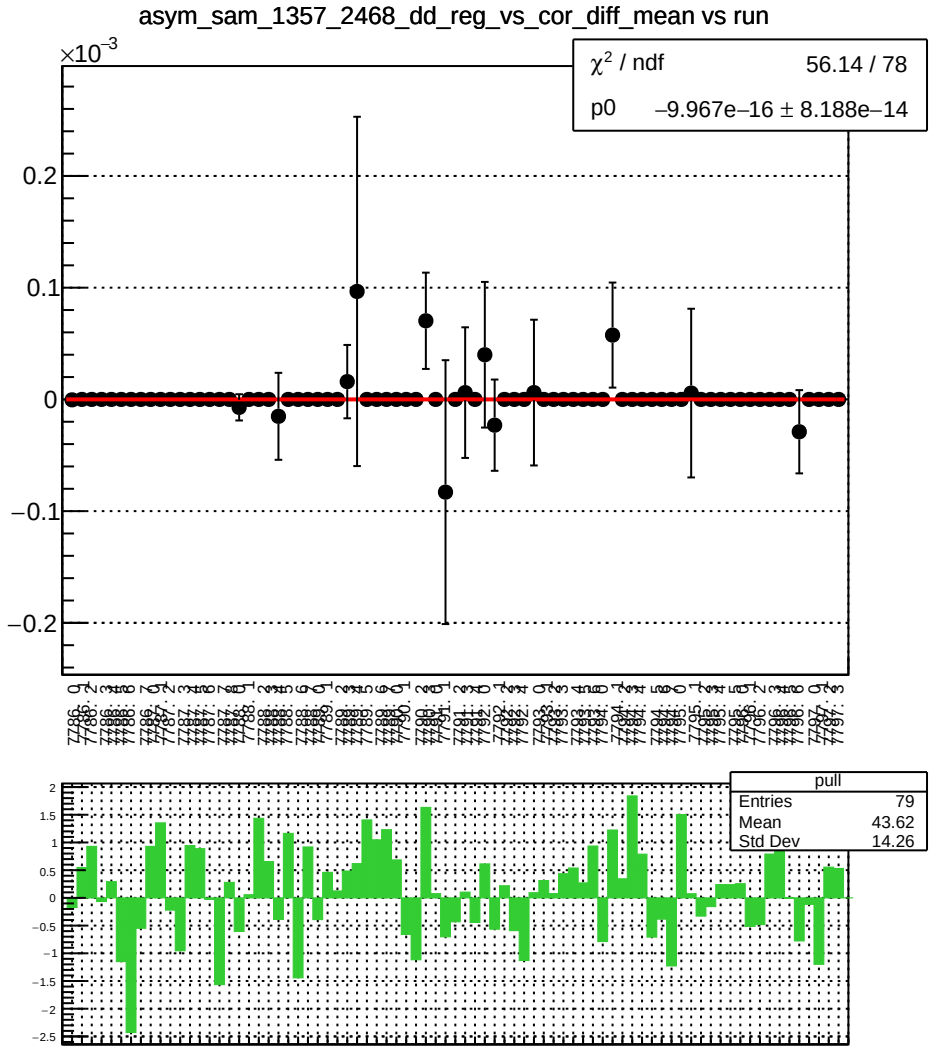

pull1D
Entries 79
Mean −0.01136
Std Dev 0.9585

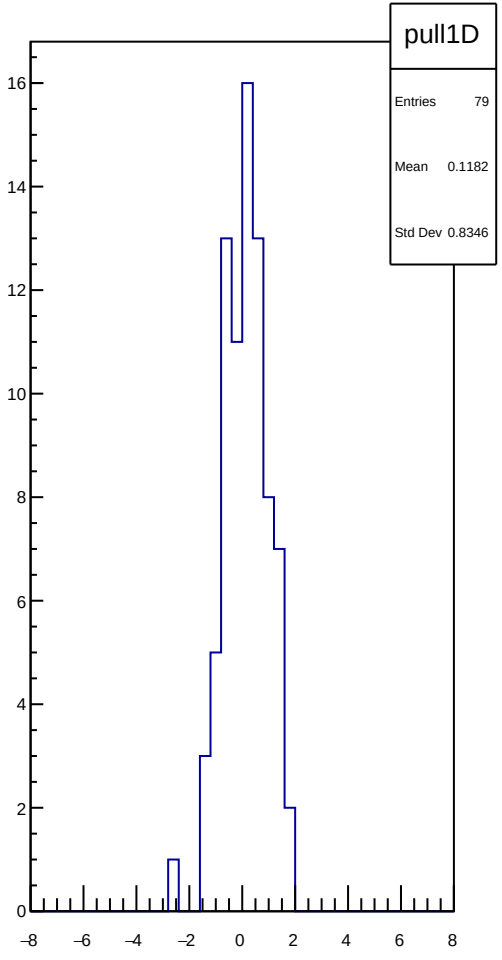

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2313 / 78
p0 590.2 ± 0.4769
660
640
620
600
580
560
540

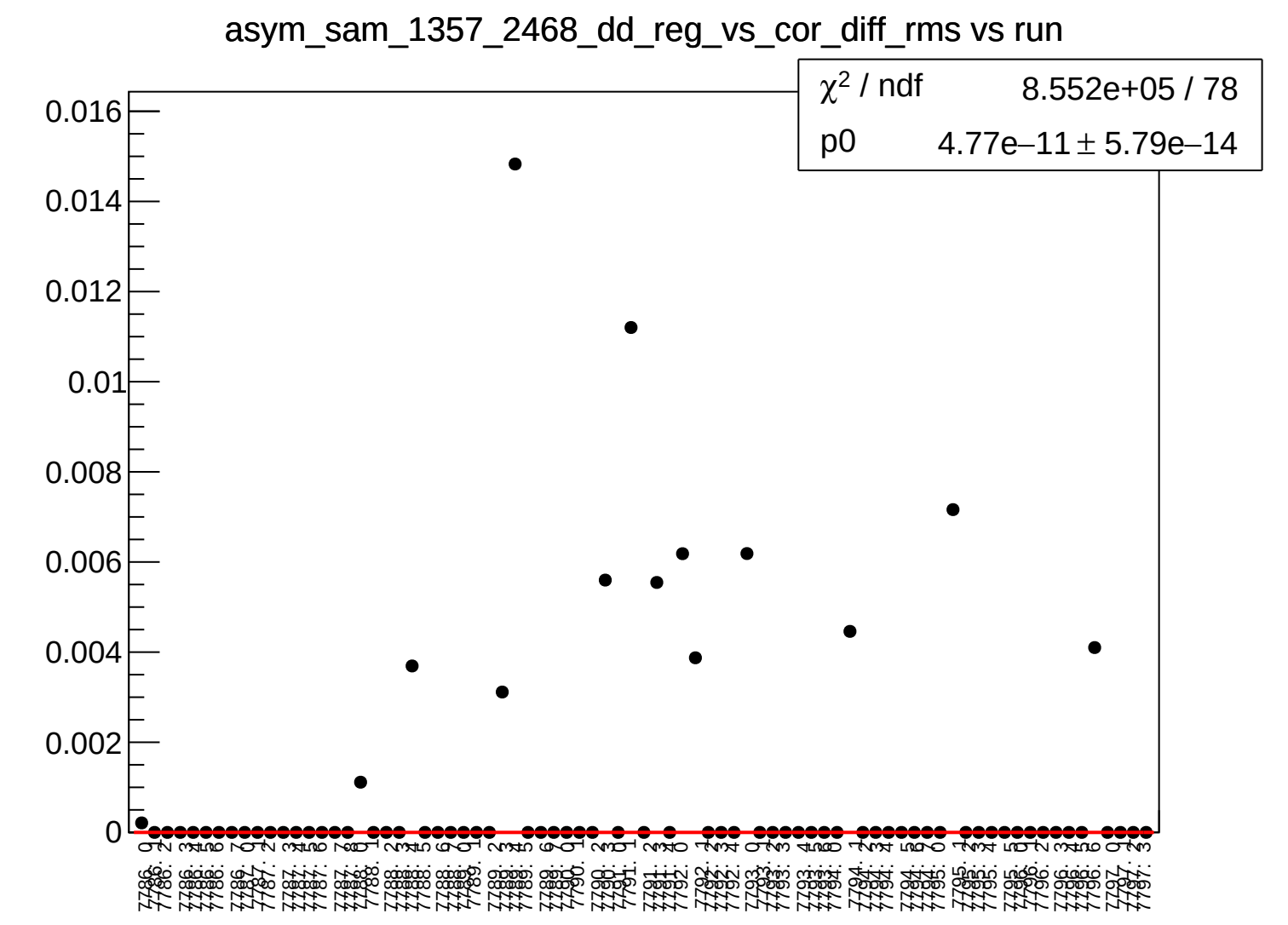

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 70.17 / 78
p0 −1016 ± 653
pull
Entries 79
Mean −48.38
Std Dev 0

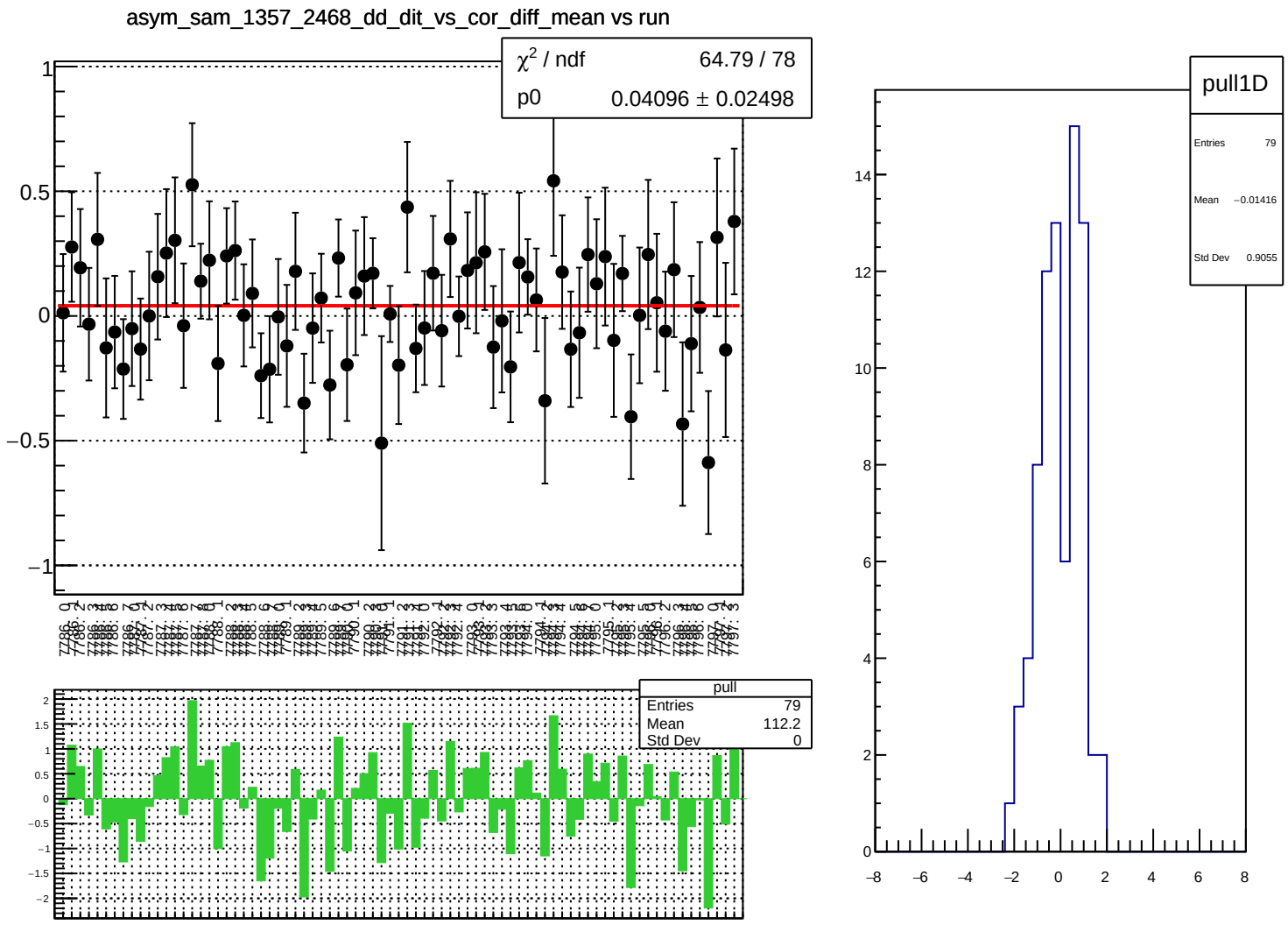

pull1D
Entries 79
Mean 0.009657
Std Dev 0.9424

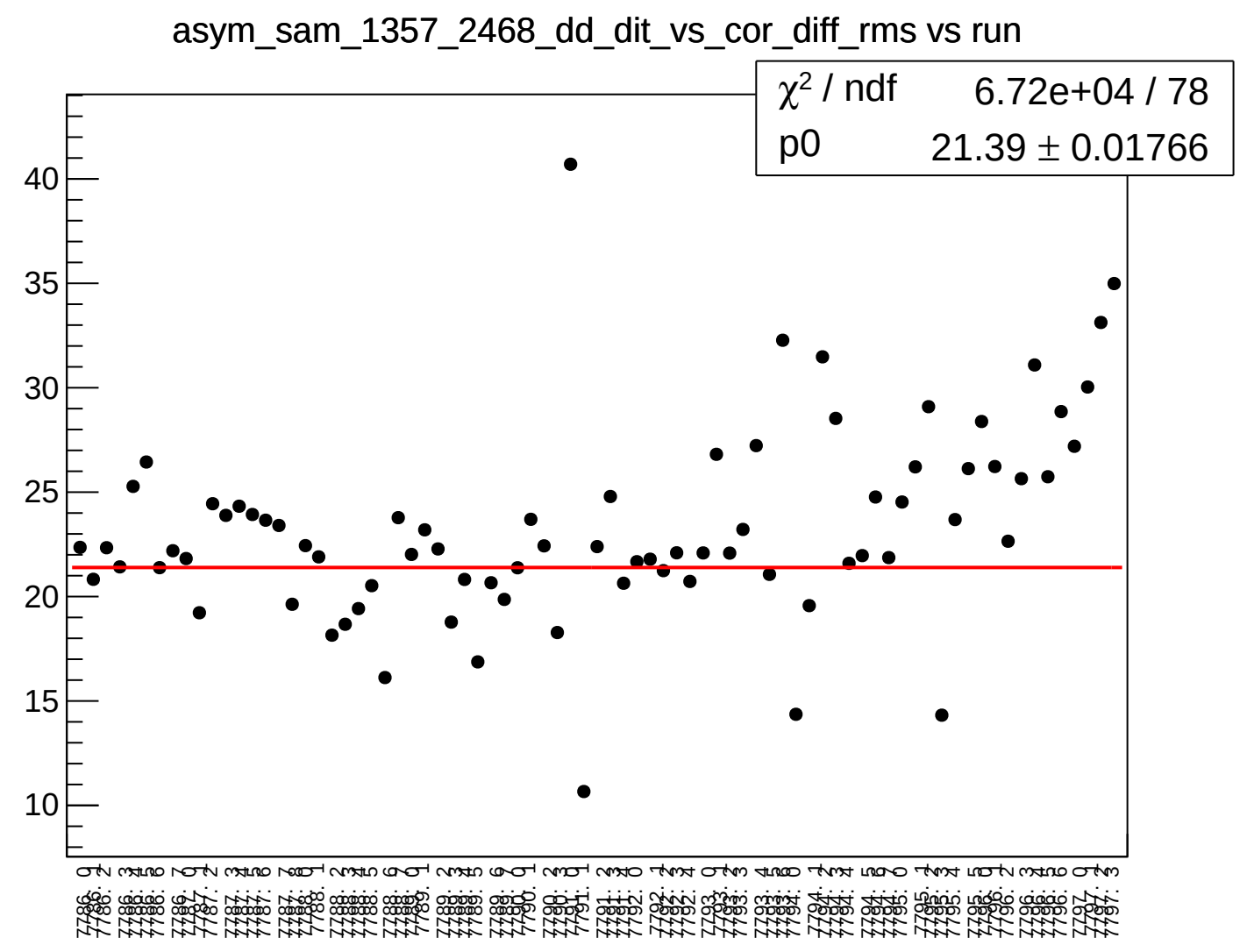

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2780 / 78
p0 571.3 ± 0.4617
640
620
600
580
560
540
520

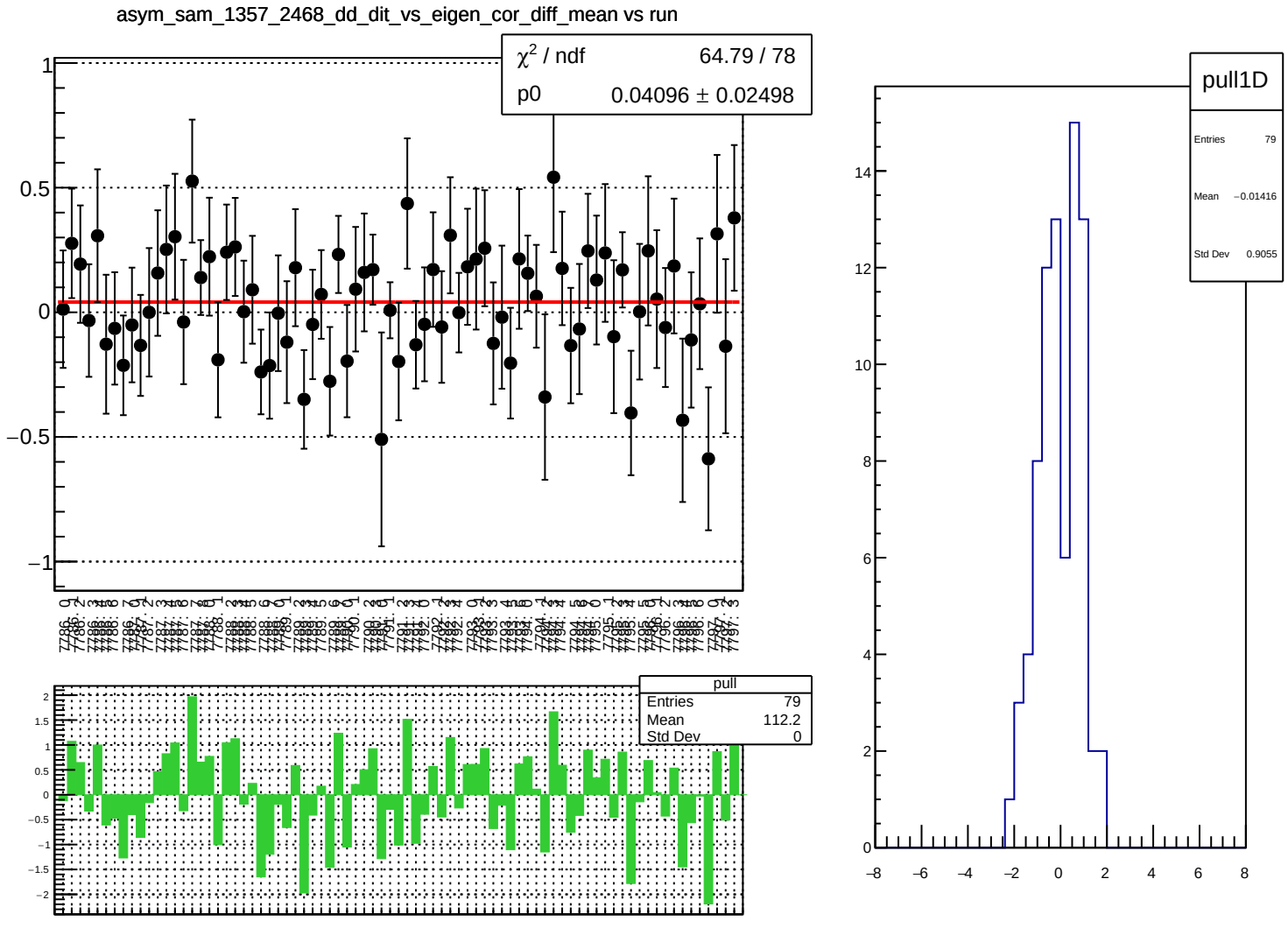

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 56.14 / 78
p0 −9.967e−16 ± 8.188e−14
pull
Entries 79
Mean 43.62
Std Dev 14.26

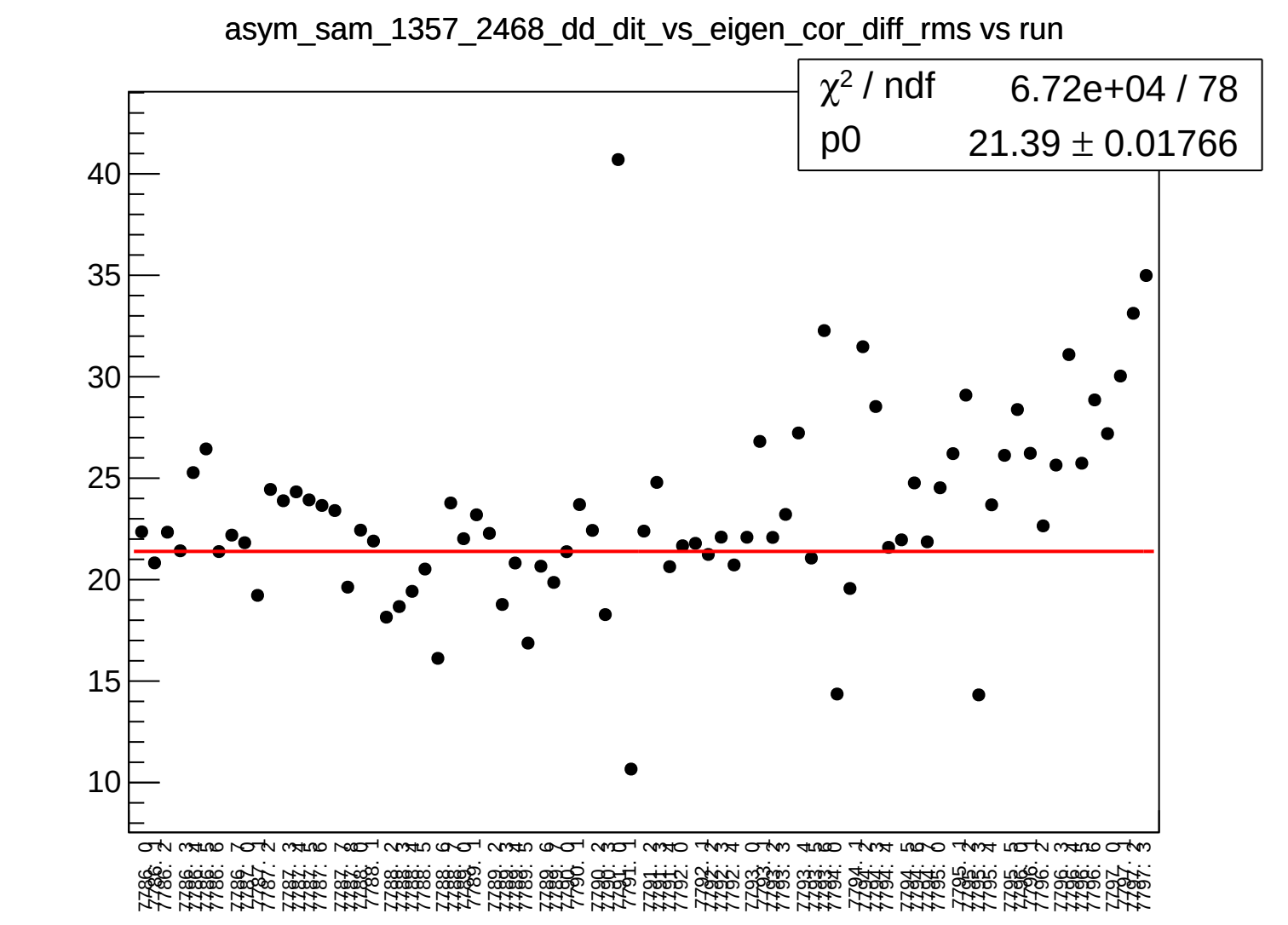

pull1D
Entries 79
Mean 0.1182
Std Dev 0.8346

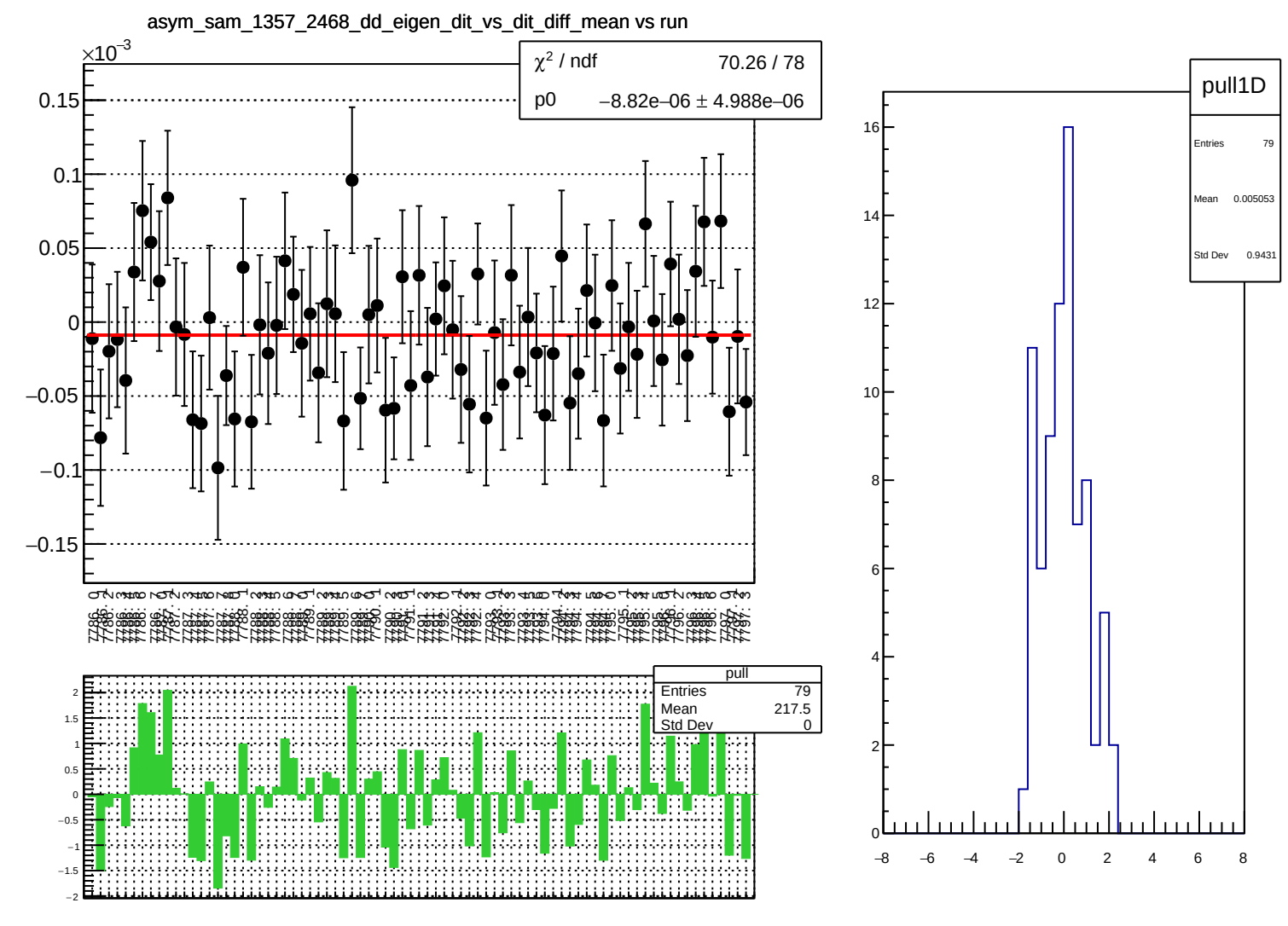

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.552e+05 / 78
p0 4.77e−11 ± 5.79e−14
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

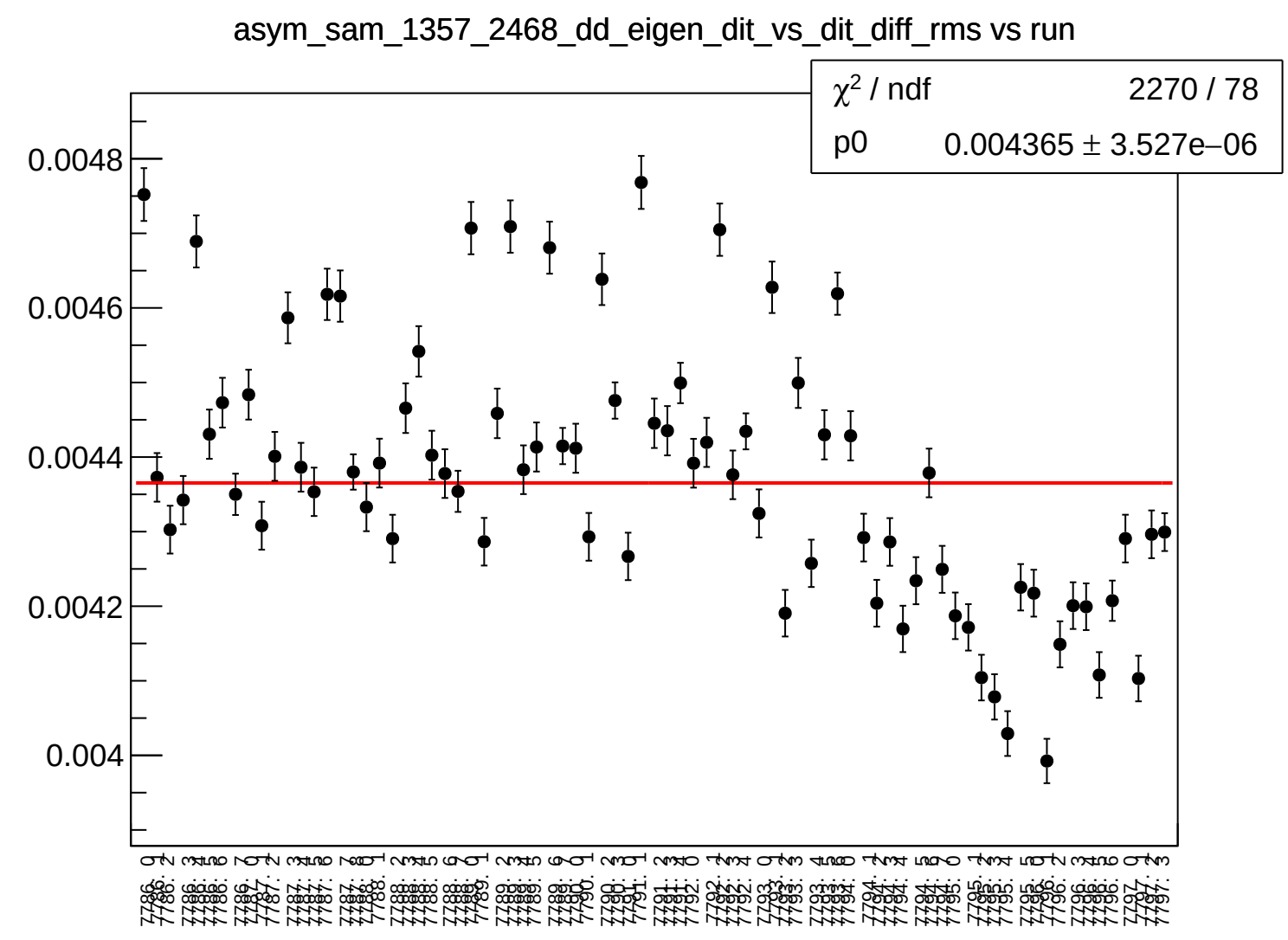

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.79 / 78
p0 0.04096 ± 0.02498
pull
Entries 79
Mean 112.2
Std Dev 0
pull1D
Entries 79
Mean −0.01416
Std Dev 0.9055

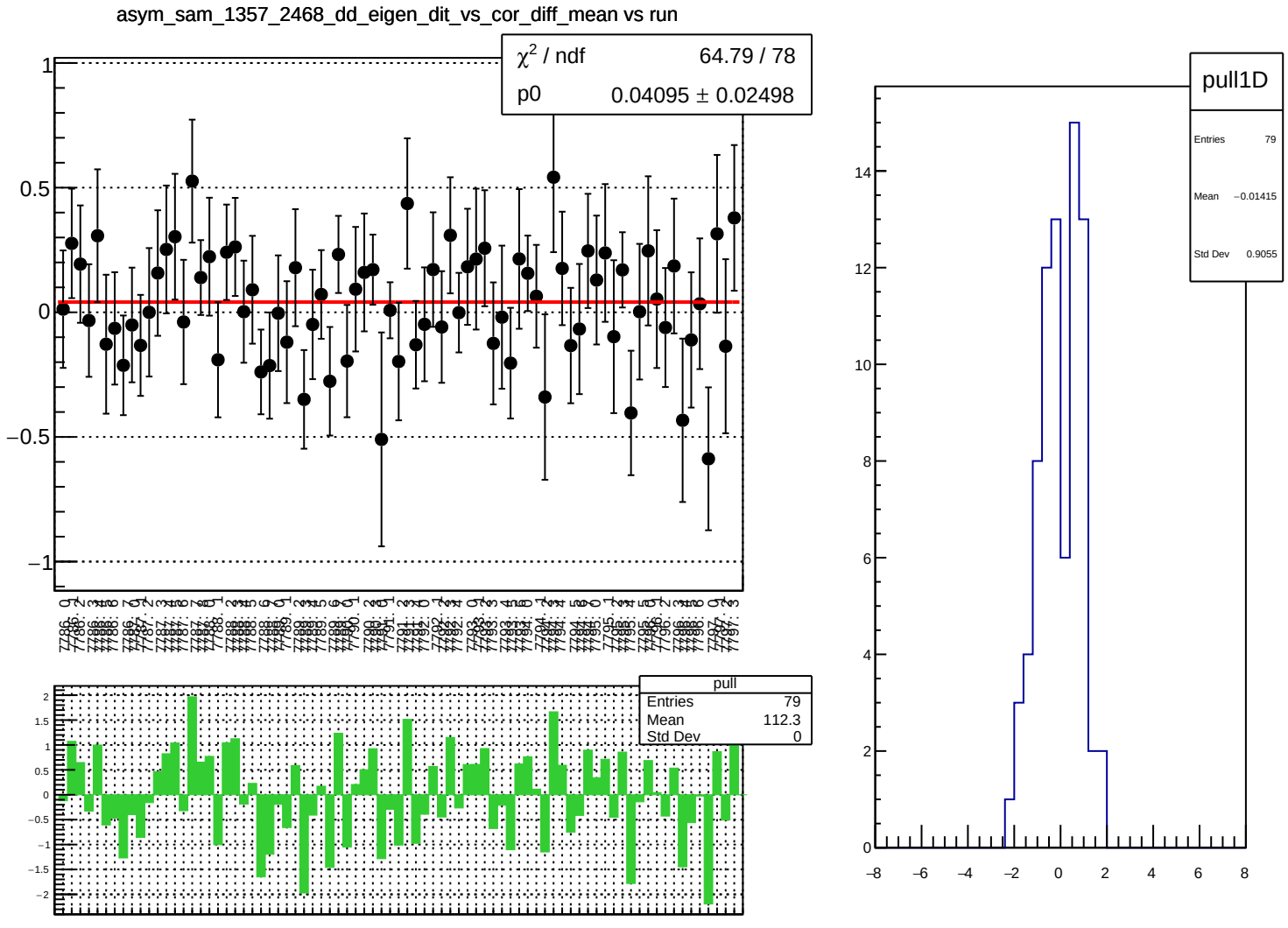

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.72e+04 / 78
p0 21.39 ± 0.01766
40
35
30
25
20
15
10

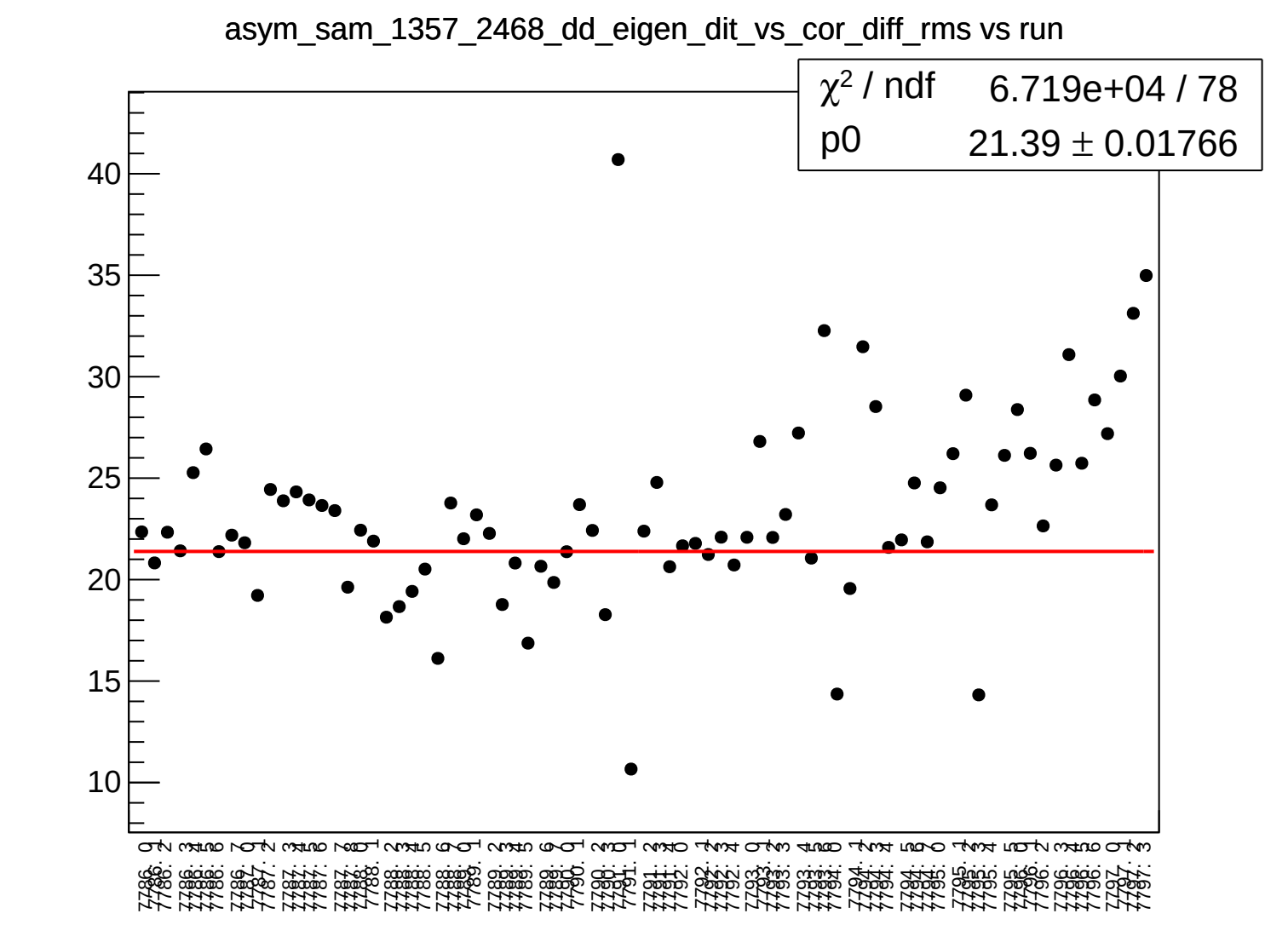

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.79 / 78
p0 0.04096 ± 0.02498
pull
Entries 79
Mean 112.2
Std Dev 0
pull1D
Entries 79
Mean −0.01416
Std Dev 0.9055

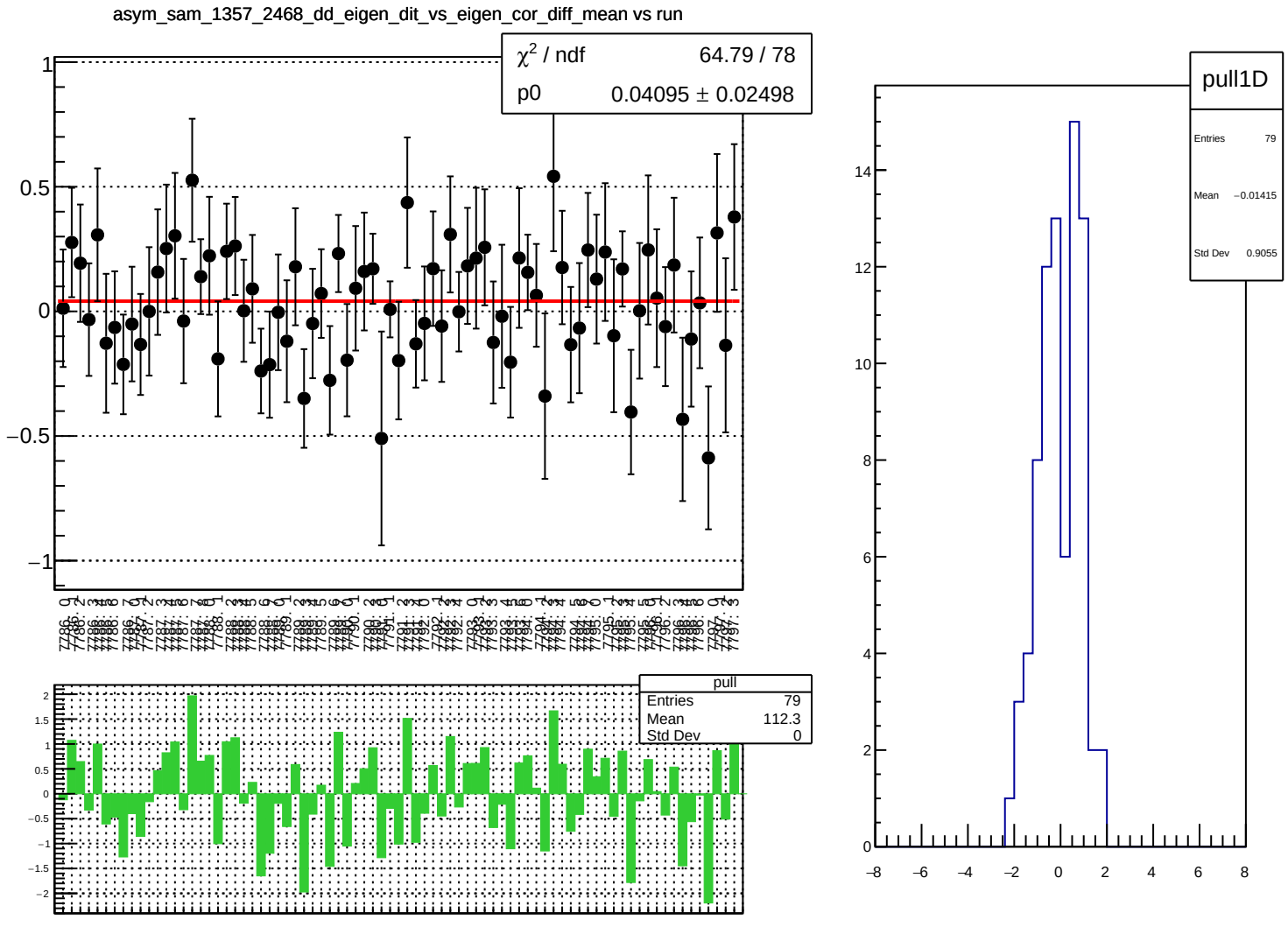

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.72e+04 / 78
p0 21.39 ± 0.01766
40
35
30
25
20
15
10

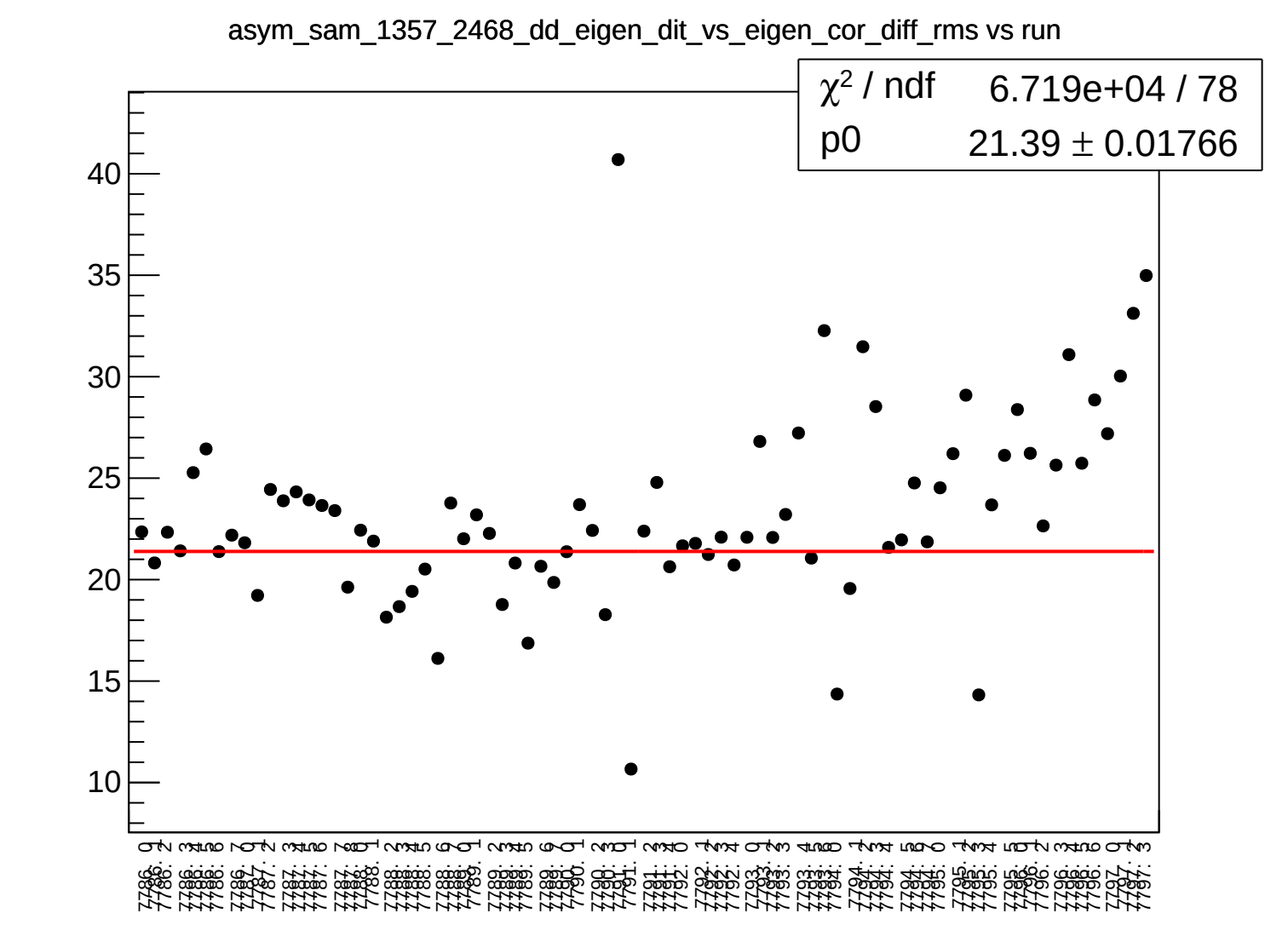

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.26 / 78
p0 −8.82e−06 ± 4.988e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 79
Mean 217.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 79
Mean 0.005053
Std Dev 0.9431
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

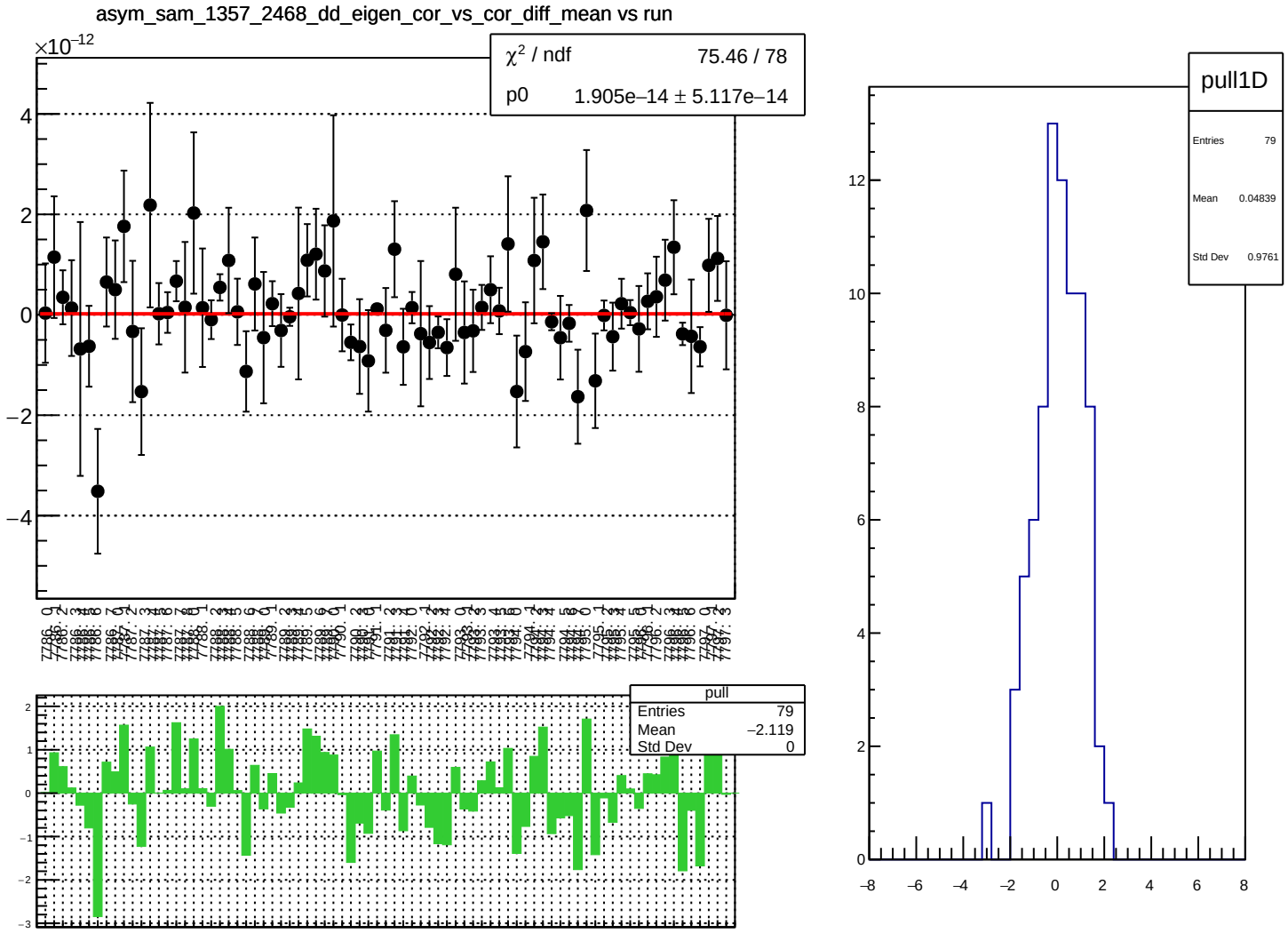

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2270 / 78
p0 0.004365 ± 3.527e−06
0.0048
0.0046
0.0044
0.0042
0.004

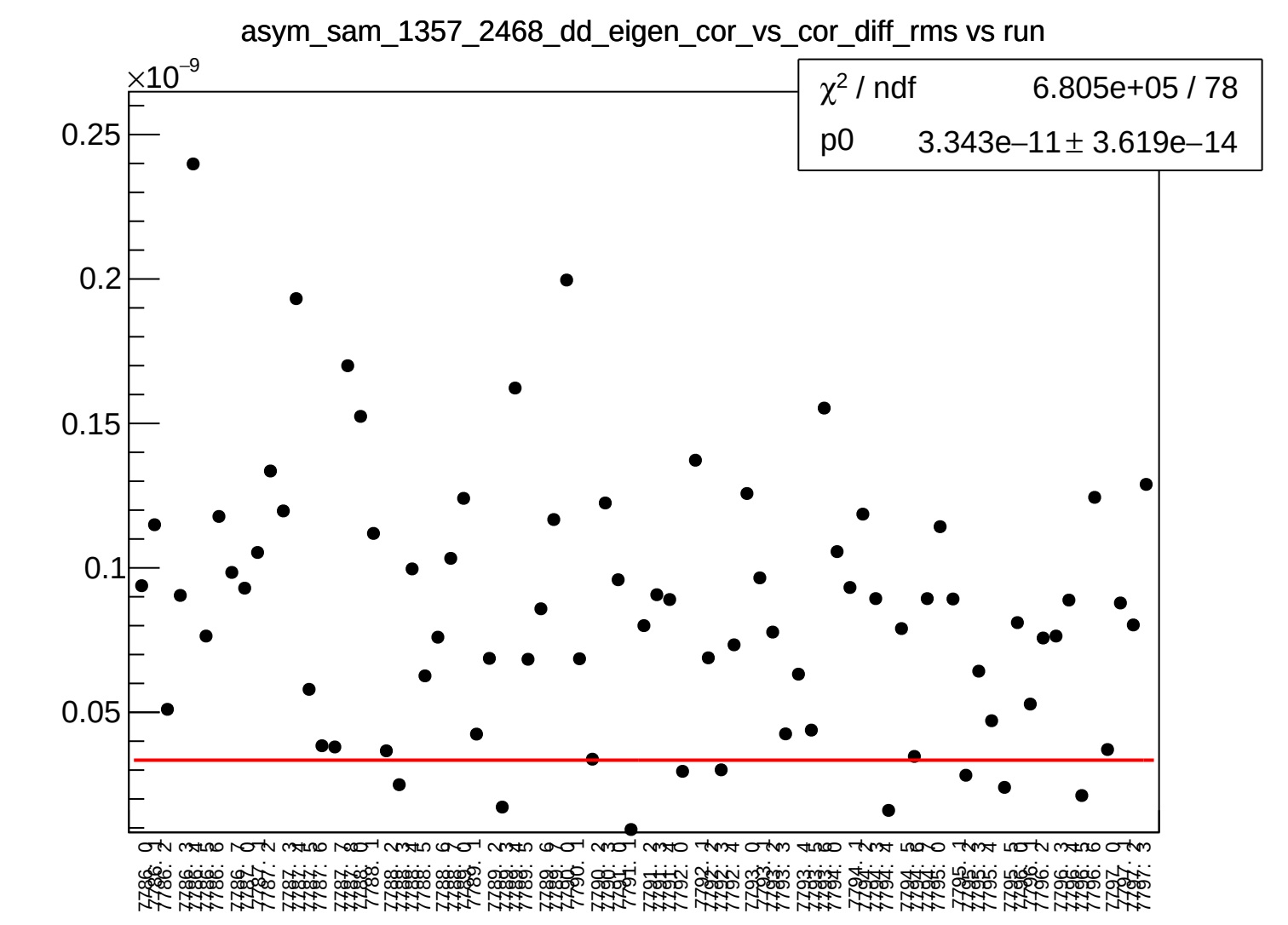

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.79 / 78
p0 0.04095 ± 0.02498
pull
Entries 79
Mean 112.3
Std Dev 0
pull1D
Entries 79
Mean −0.01415
Std Dev 0.9055

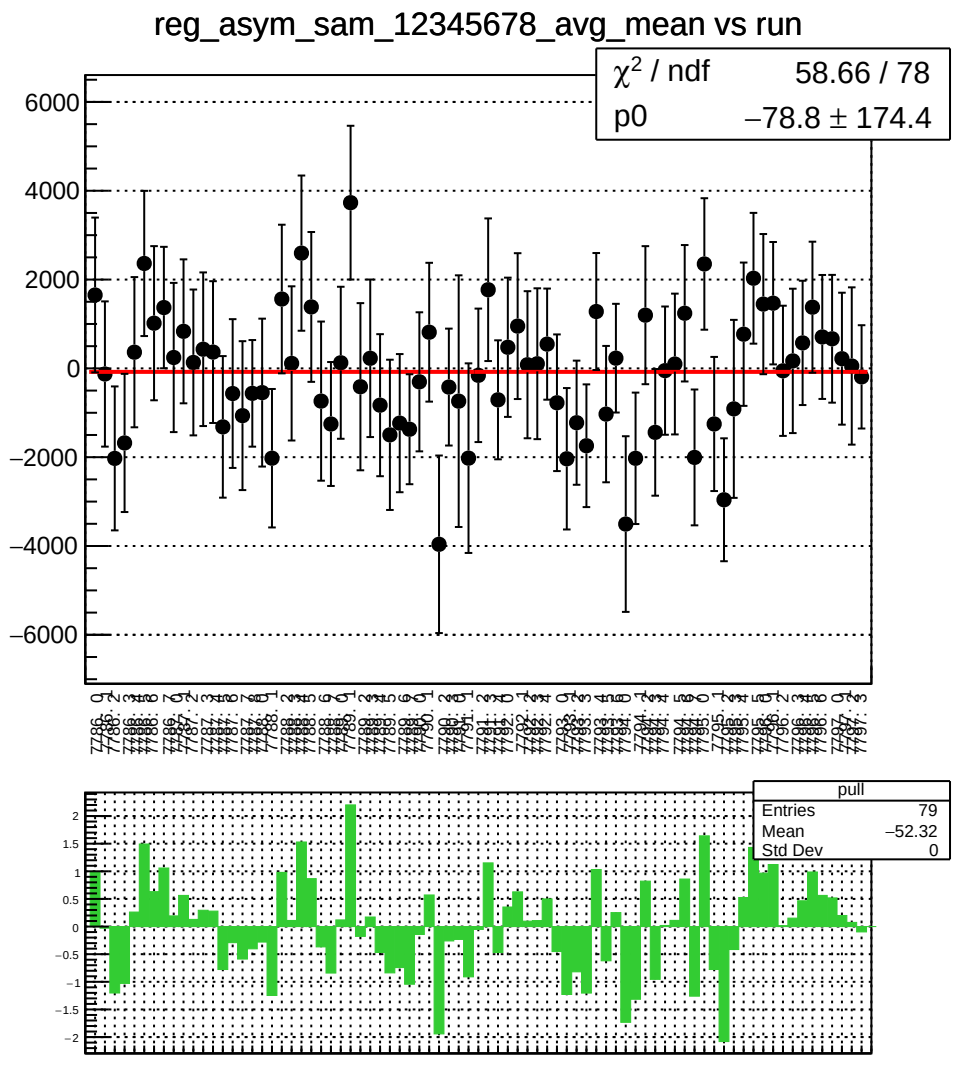

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.719e+04 / 78
p0 21.39 ± 0.01766
40
35
30
25
20
15
10

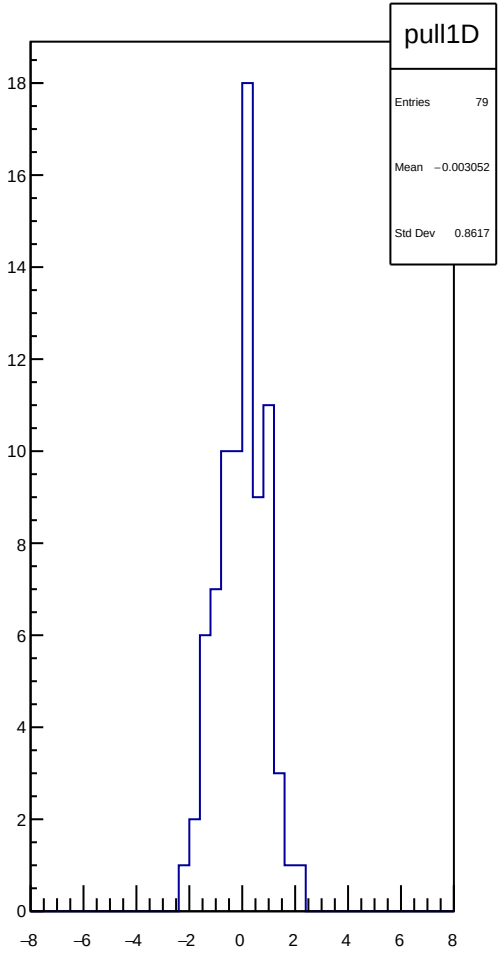

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.79 / 78
p0 0.04095 ± 0.02498
pull
Entries 79
Mean 112.3
Std Dev 0
pull1D
Entries 79
Mean −0.01415
Std Dev 0.9055

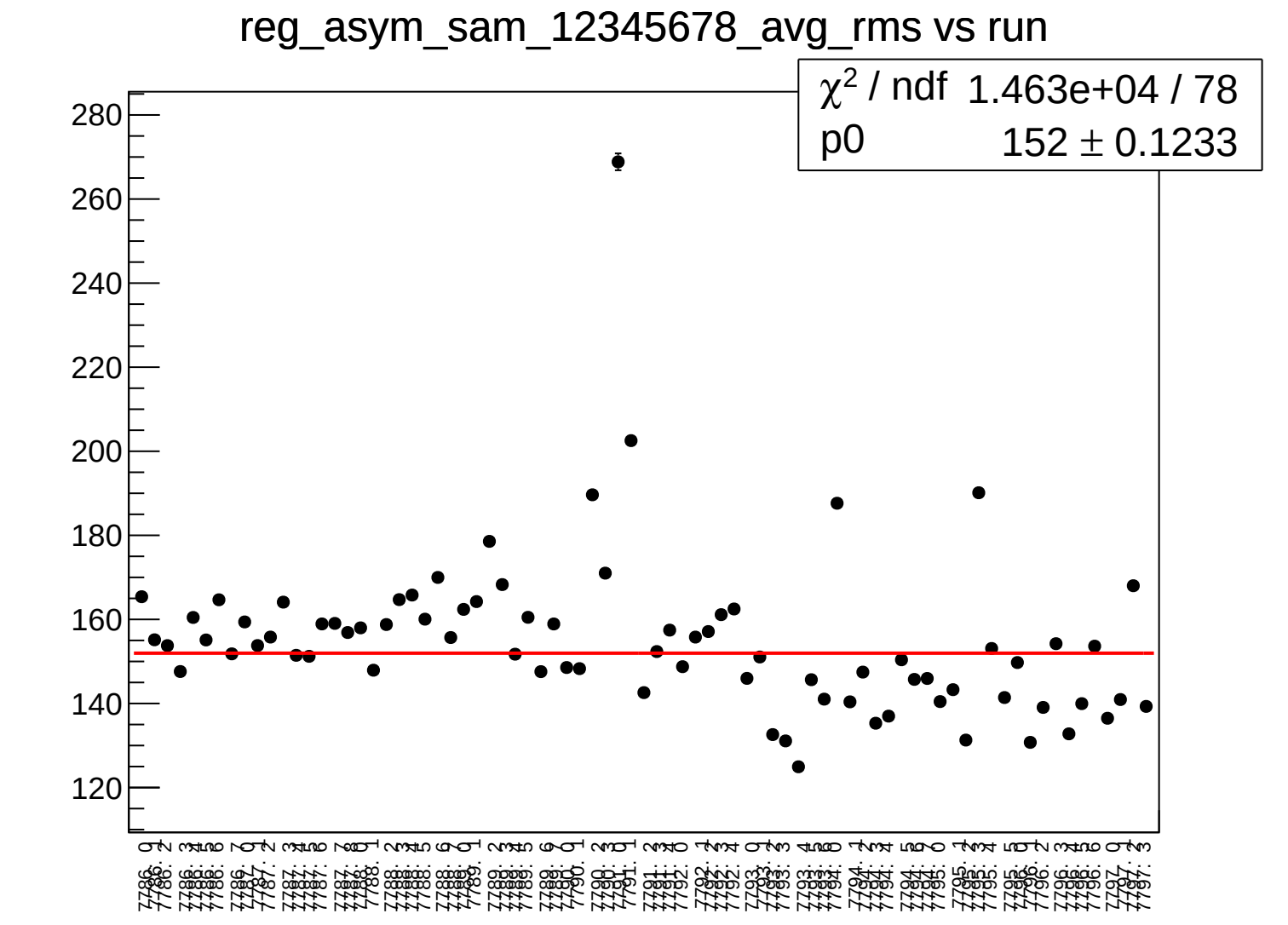

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.719e+04 / 78
p0 21.39 ± 0.01766
40
35
30
25
20
15
10

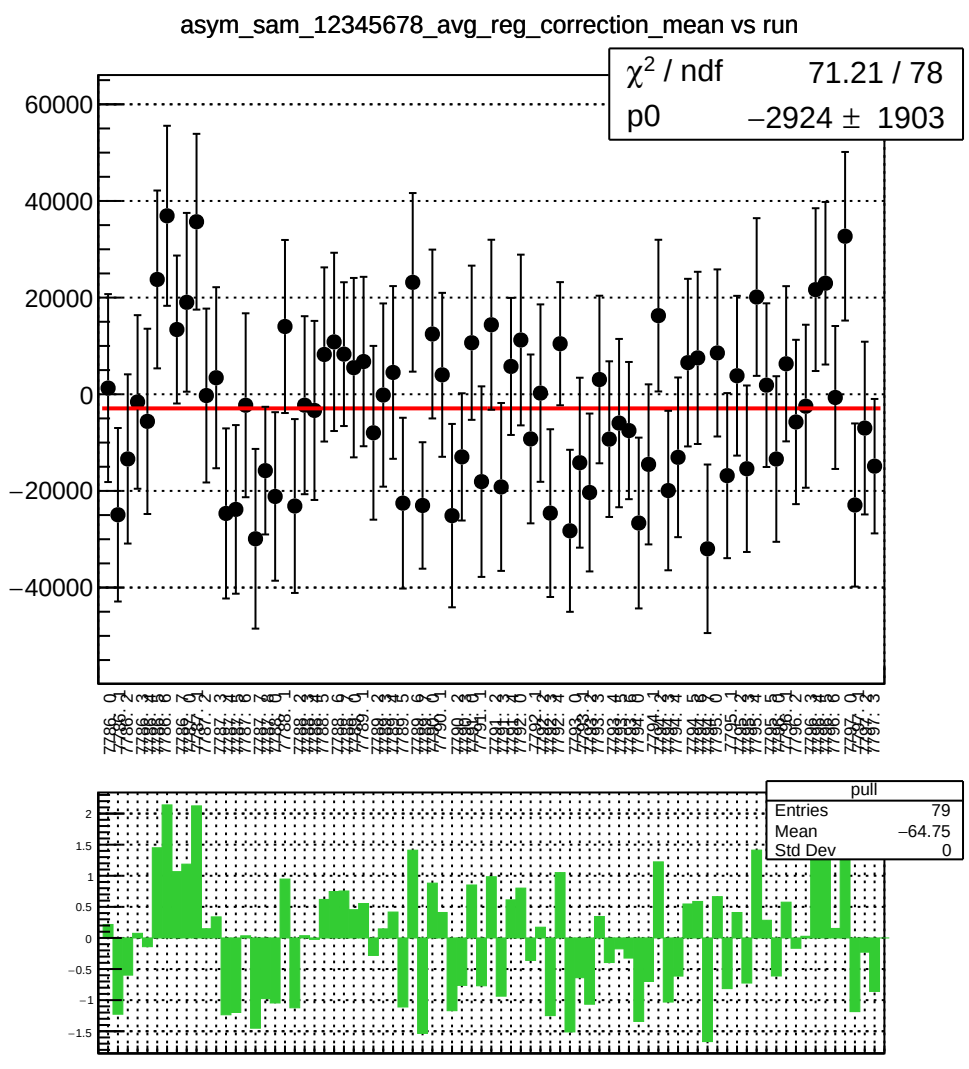

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.46 / 78
p0 1.905e−14 ± 5.117e−14
pull
Entries 79
Mean −2.119
Std Dev 0
pull1D
Entries 79
Mean 0.04839
Std Dev 0.9761

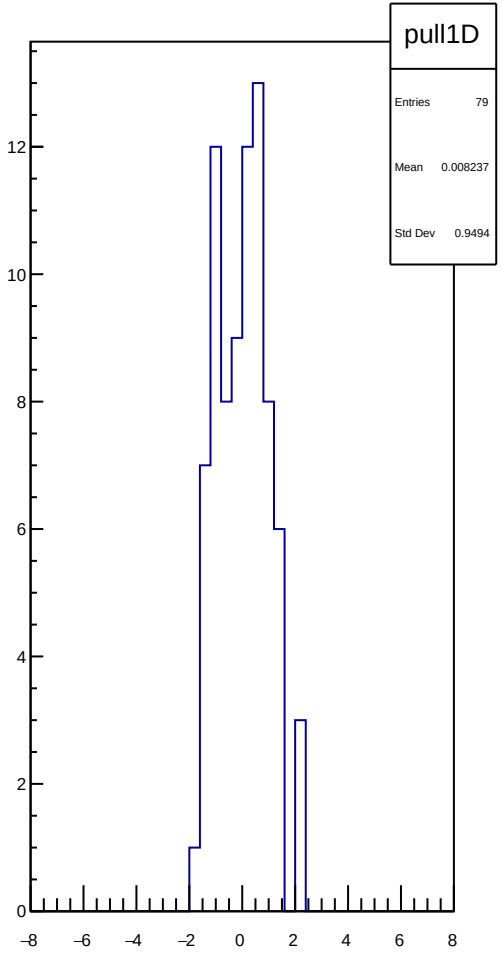

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.805e+05 / 78
p0 3.343e−11 ± 3.619e−14
0.25
0.2
0.15
0.1
0.05

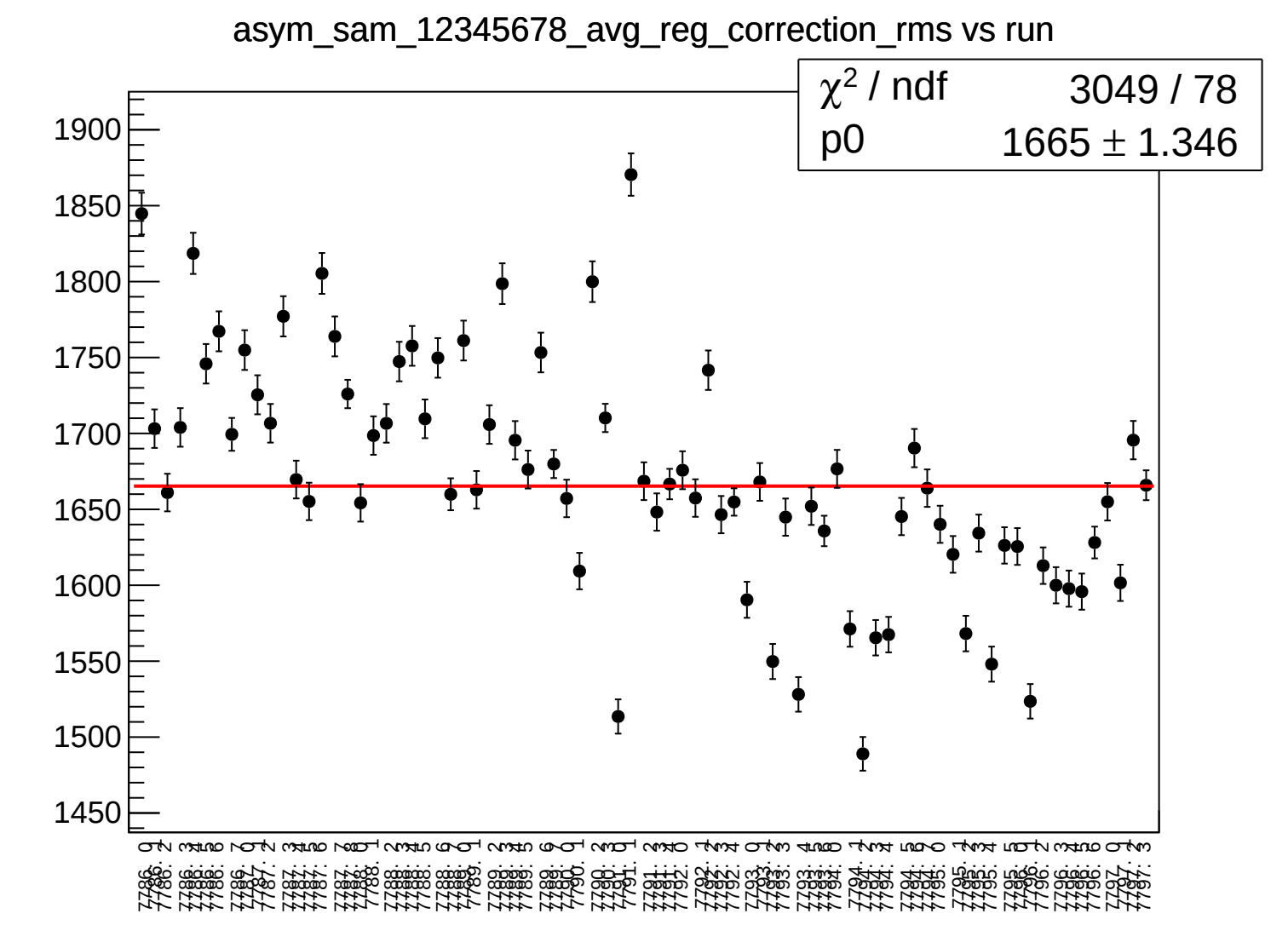

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 58.66 / 78
p0 −78.8 ± 174.4
pull
Entries 79
Mean −52.32
Std Dev 0

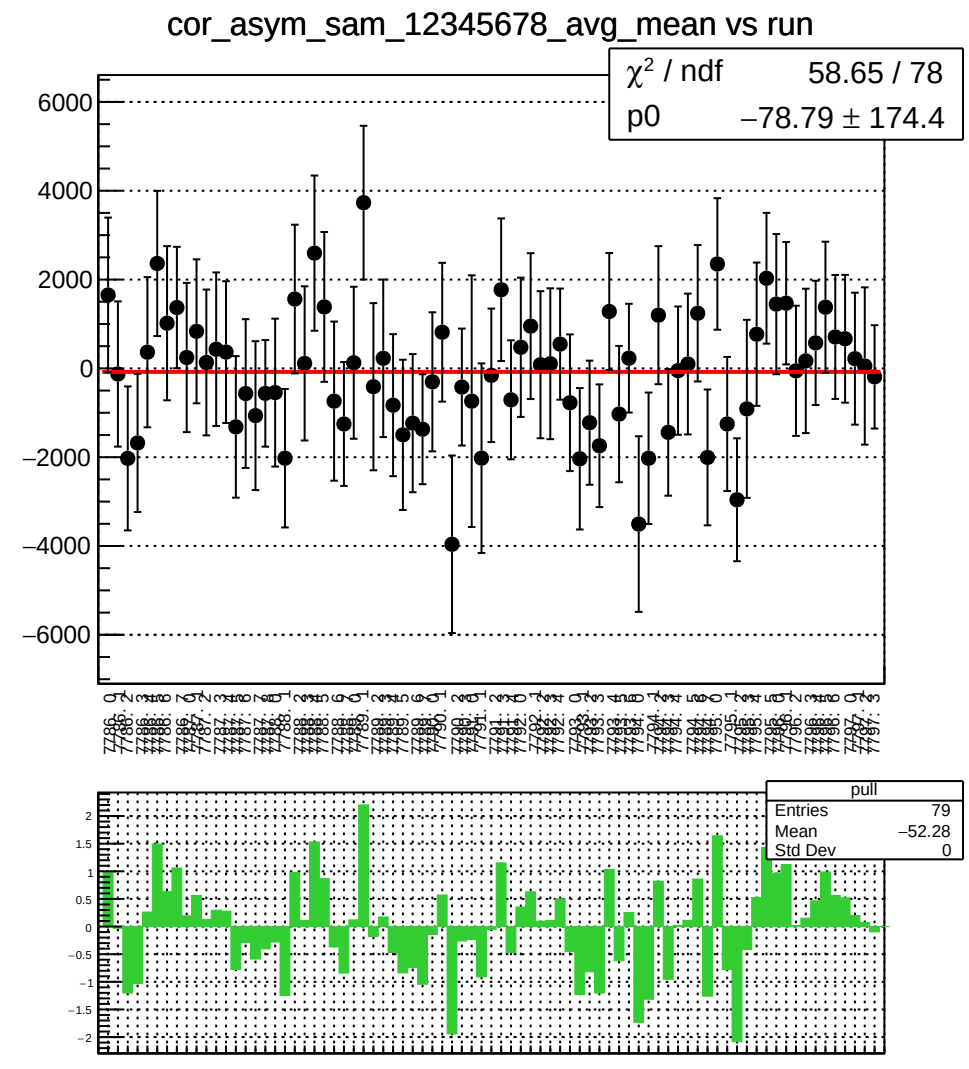

pull1D
Entries 79
Mean −0.003052
Std Dev 0.8617

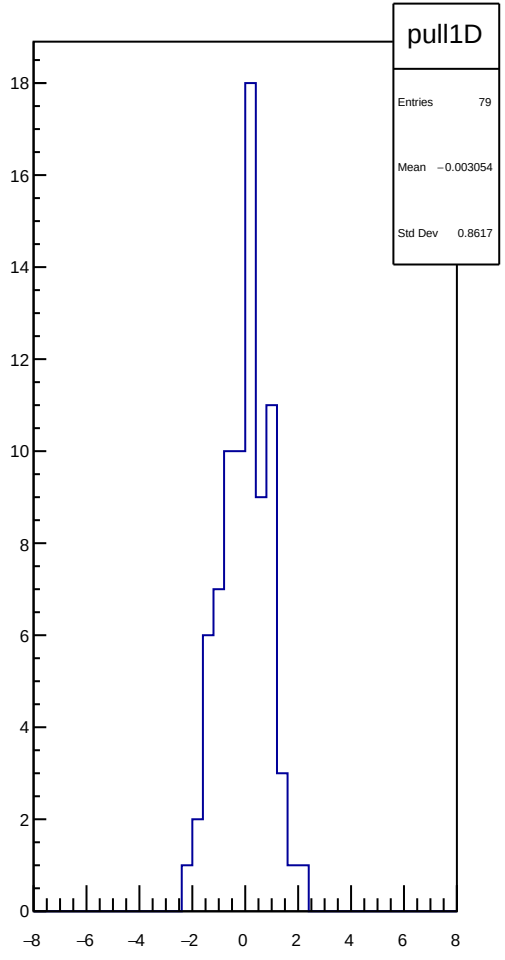

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.463e+04 / 78
p0 152 ± 0.1233
280
260
240
220
200
180
160
140
120

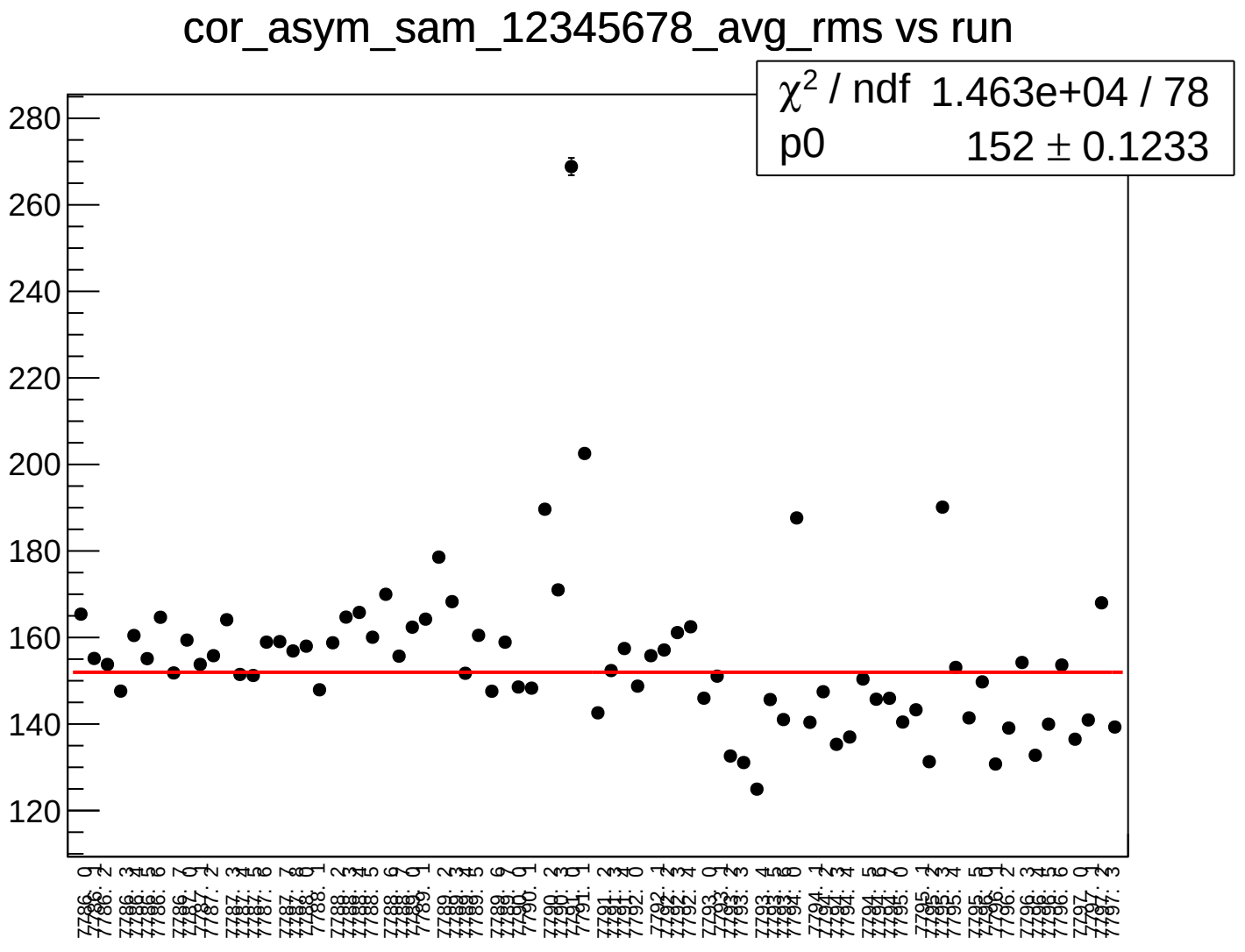

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 71.21 / 78
p0 −2924 ± 1903
pull
Entries 79
Mean −64.75
Std Dev 0

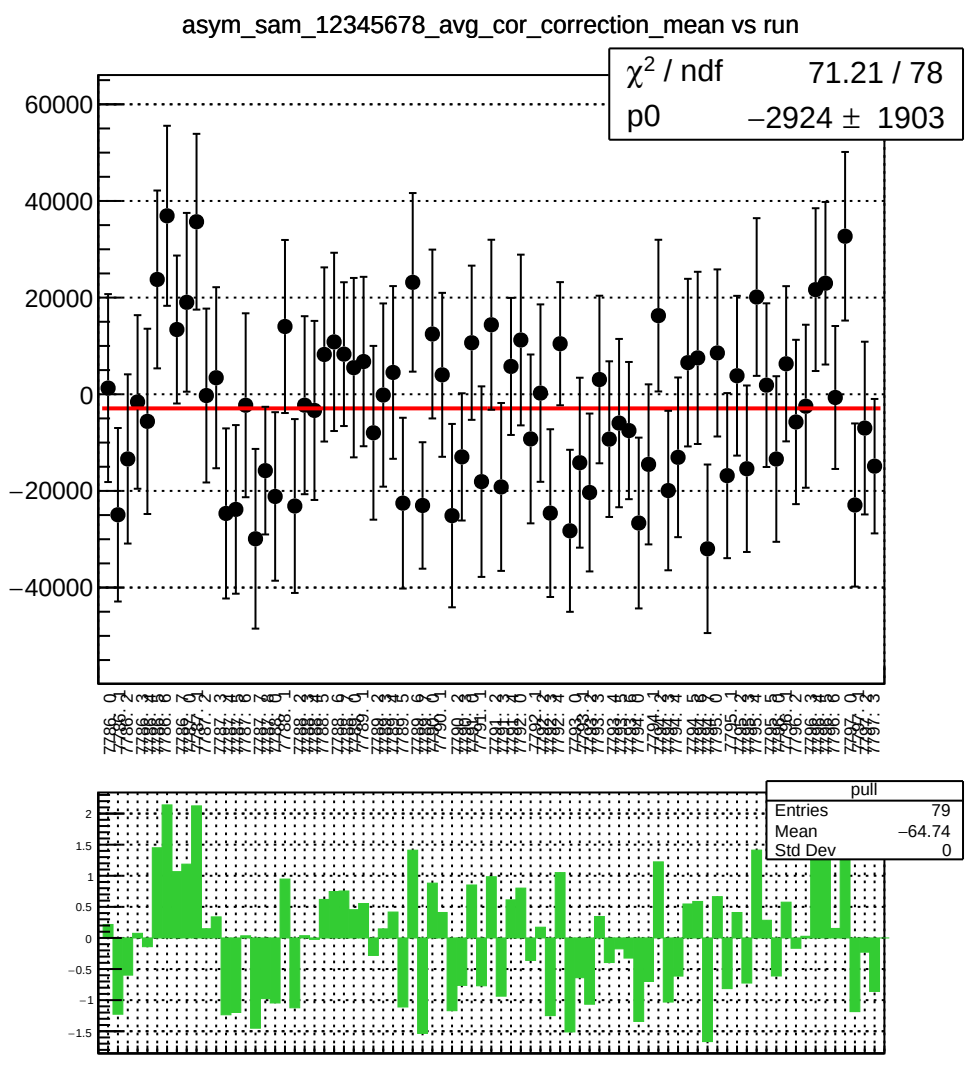

pull1D
Entries 79
Mean 0.008237
Std Dev 0.9494

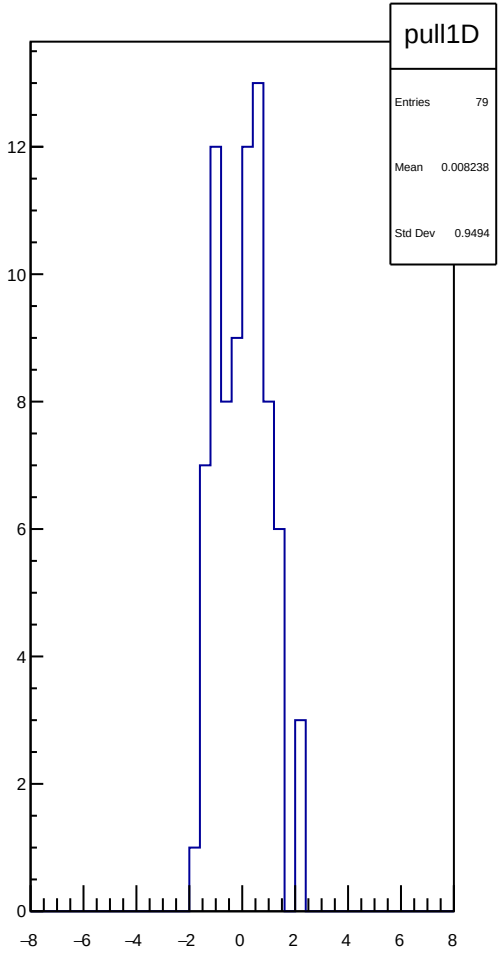

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 3049 / 78
p0 1665 ± 1.346
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

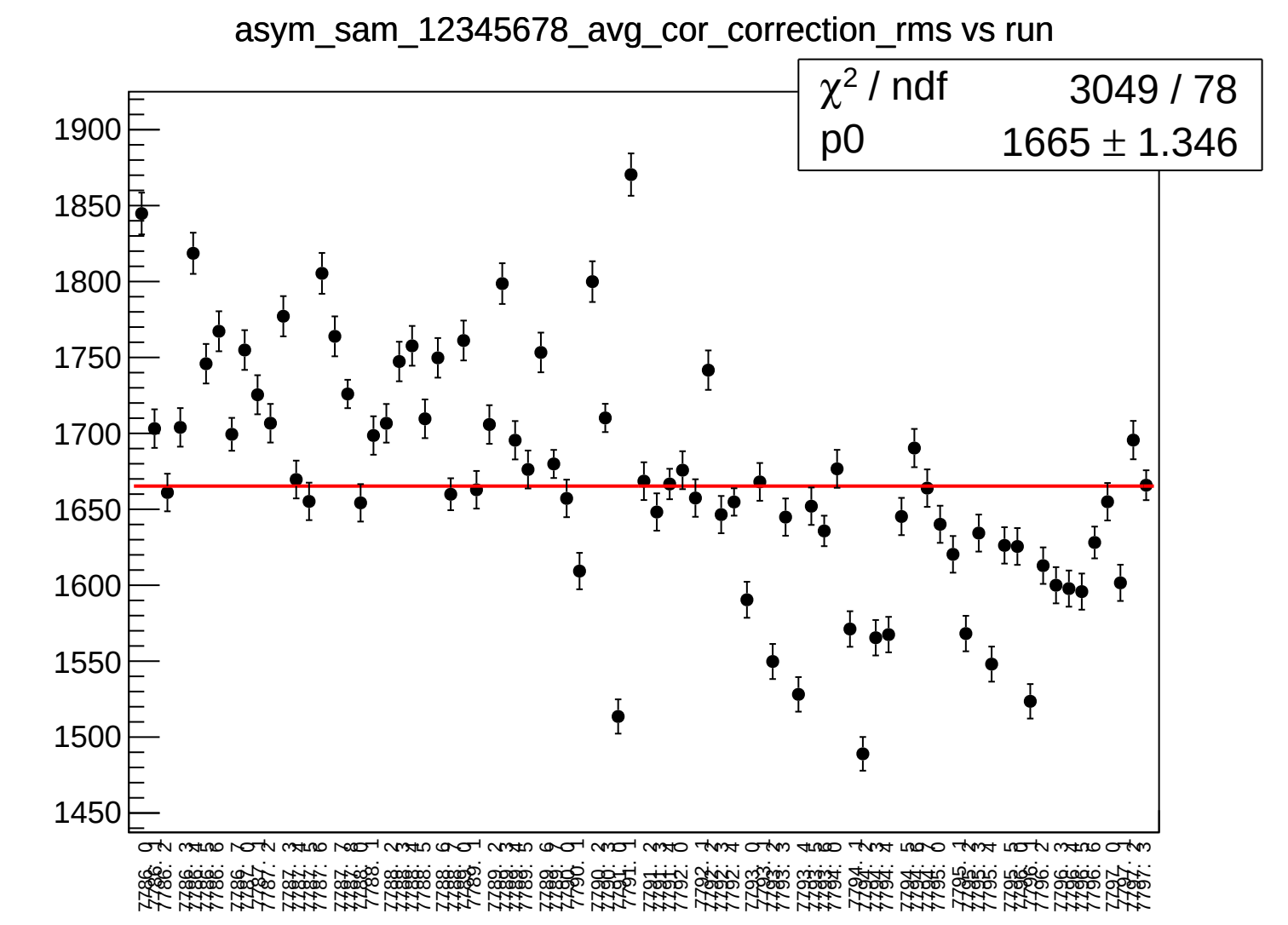

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 58.65 / 78
p0 −78.79 ± 174.4
pull
Entries 79
Mean −52.28
Std Dev 0

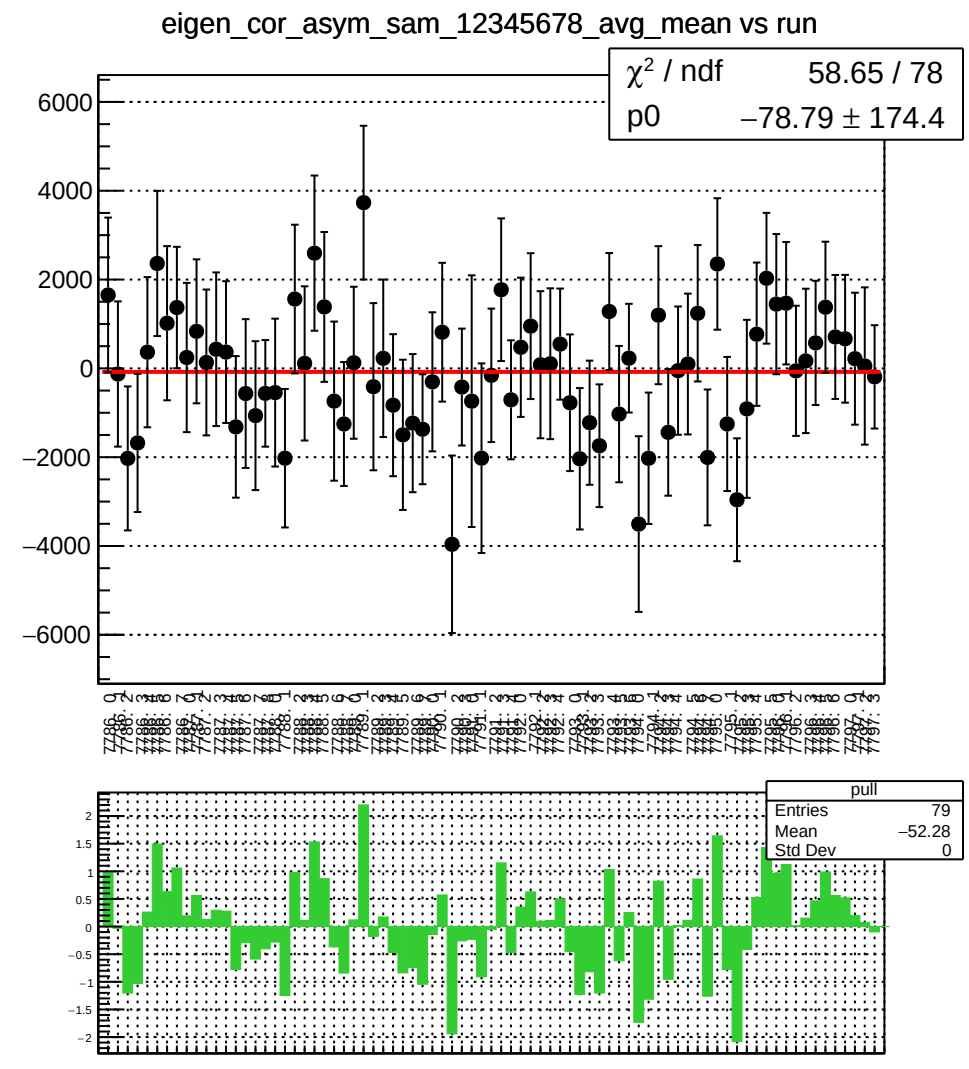

pull1D
Entries 79
Mean −0.003054
Std Dev 0.8617

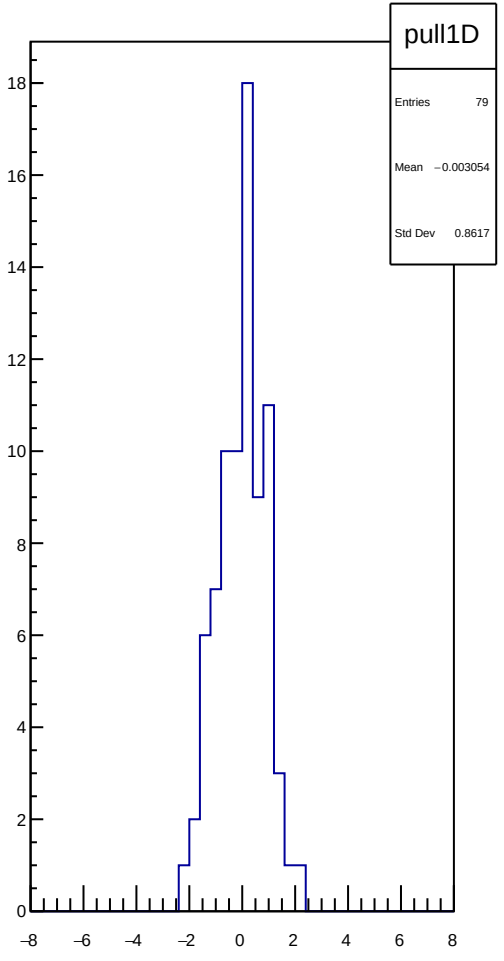

cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.463e+04 / 78
p0 152 ± 0.1233
280
260
240
220
200
180
160
140
120

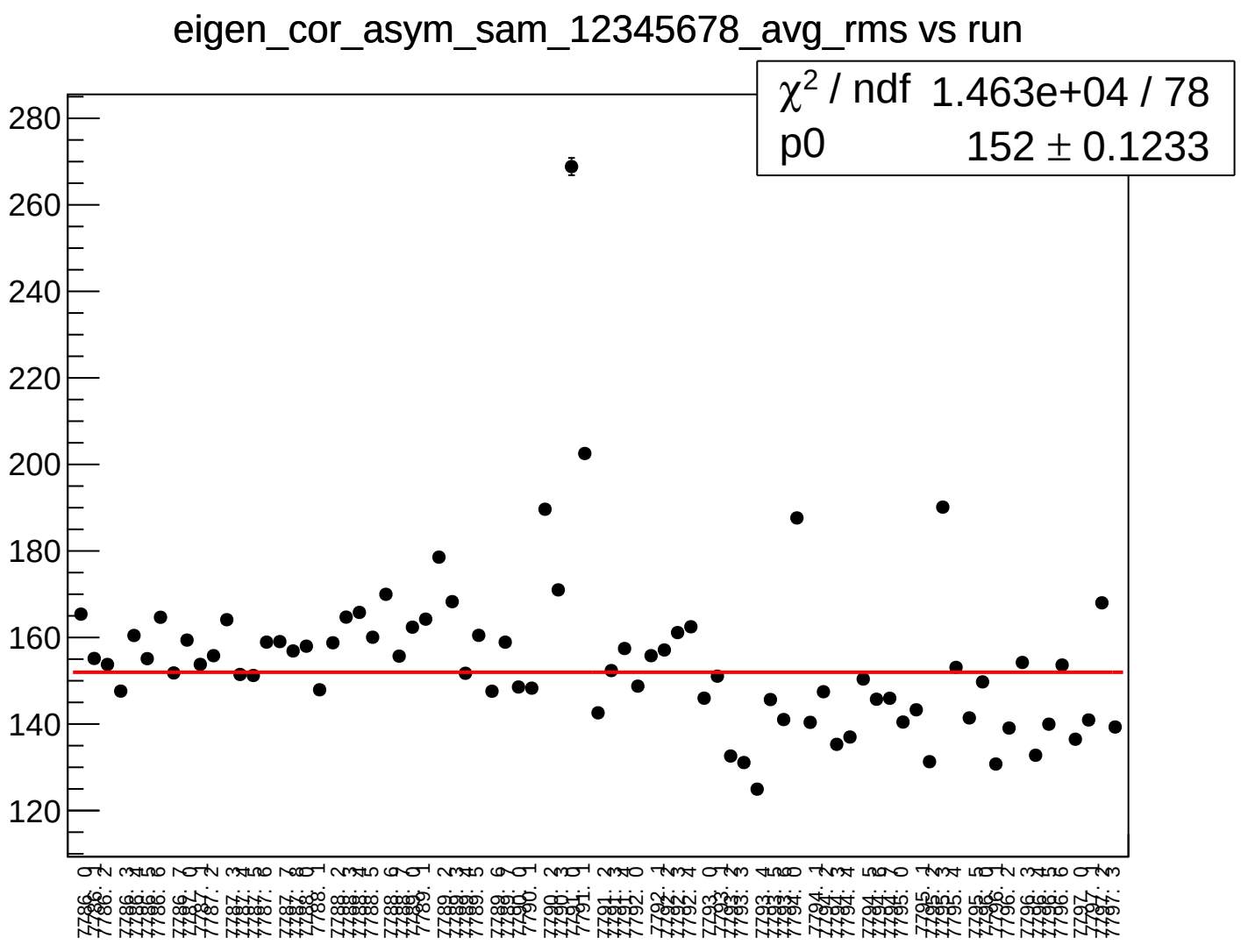

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 71.21 / 78
p0 −2924 ± 1903
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −64.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

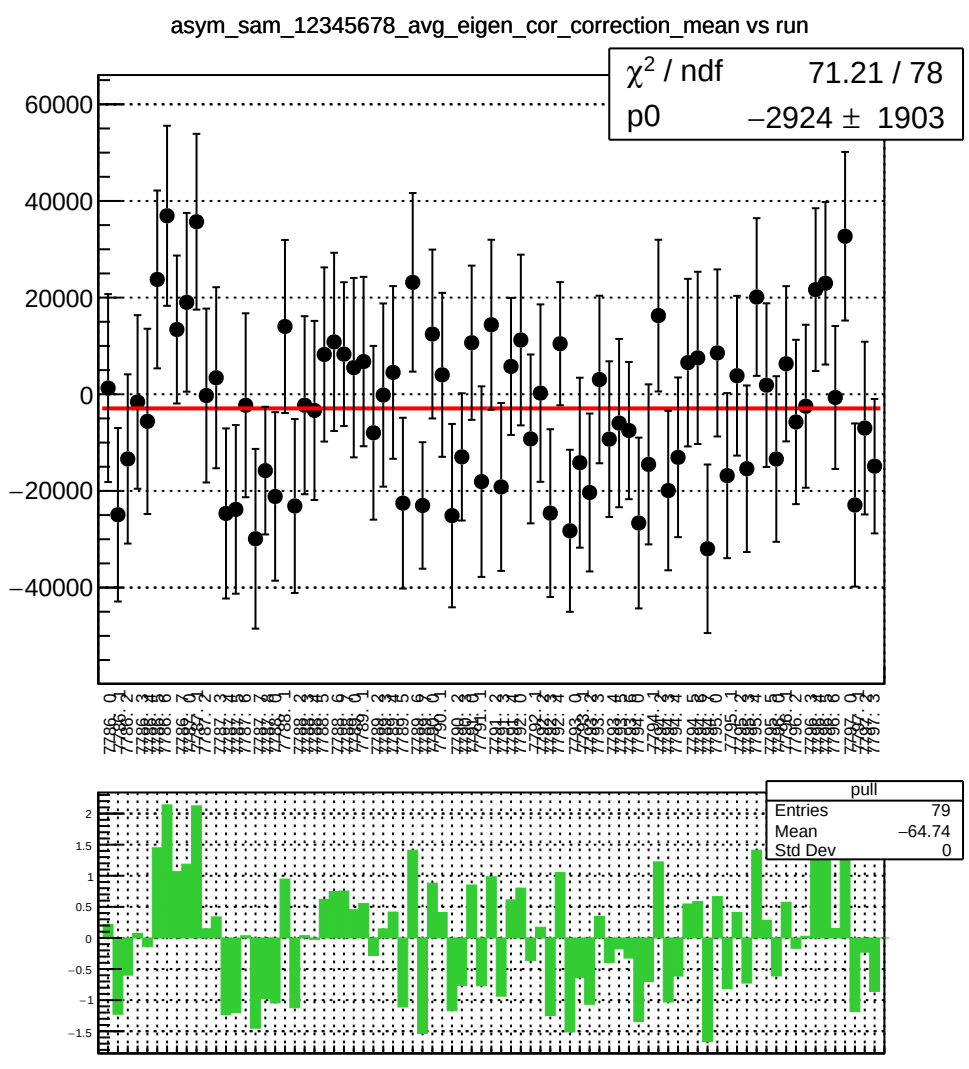

pull1D
Entries 79
Mean 0.008238
Std Dev 0.9494
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

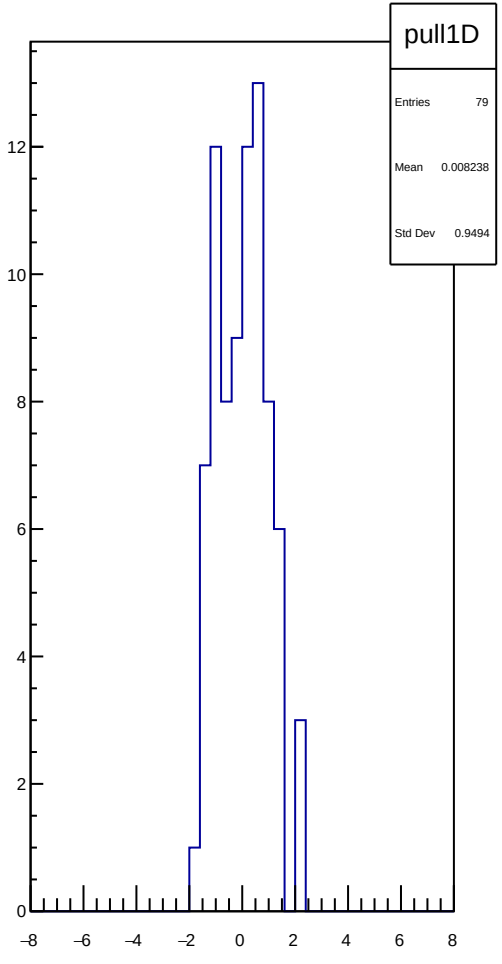

asym_sam_12345678_avg_cor_correction_rms vs run
χ^2 / ndf 3049 / 78
p0 1665 ± 1.346
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

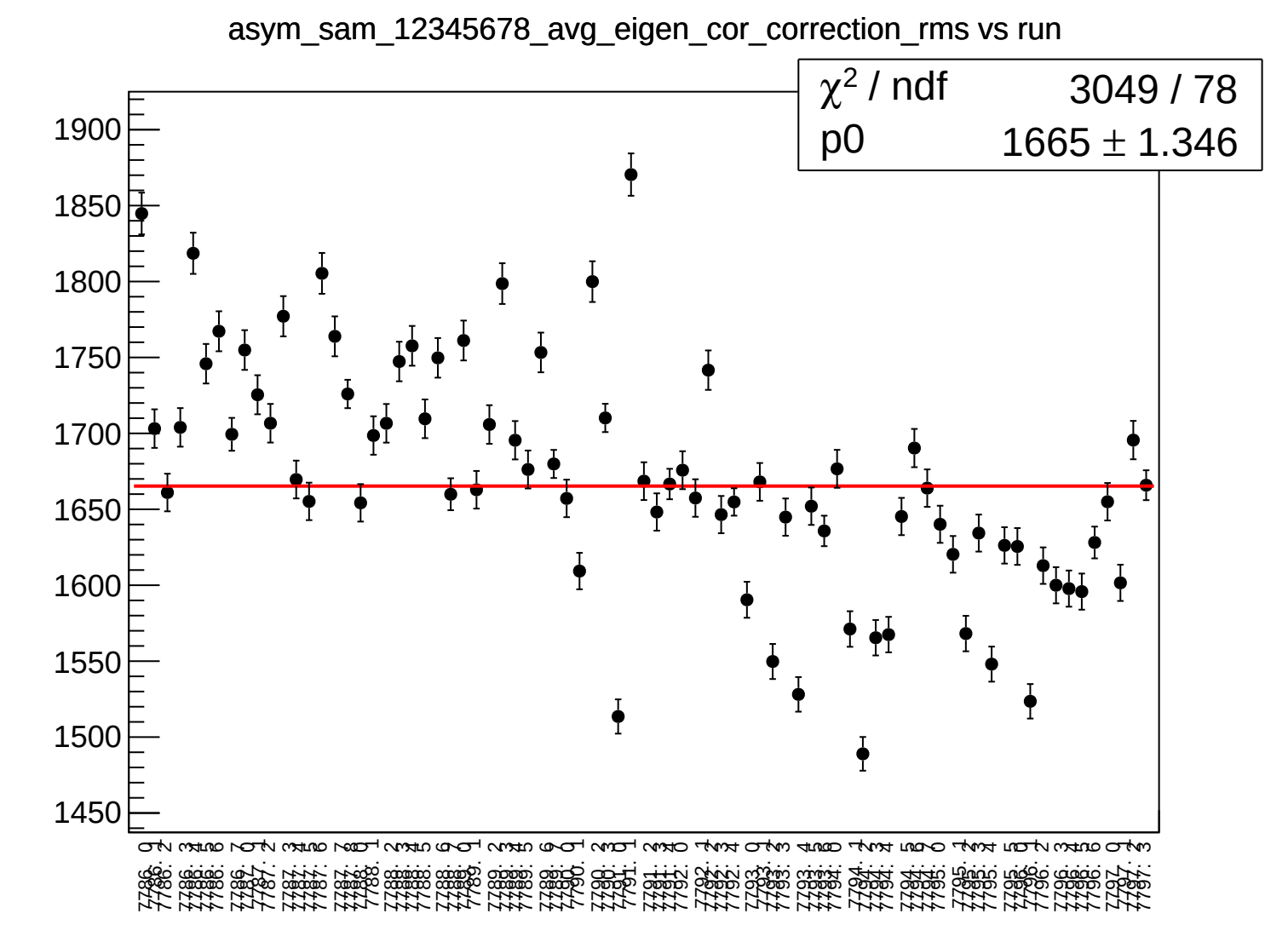

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 58.65 / 78
p0 −78.79 ± 174.4
pull
Entries 79
Mean −52.28
Std Dev 0

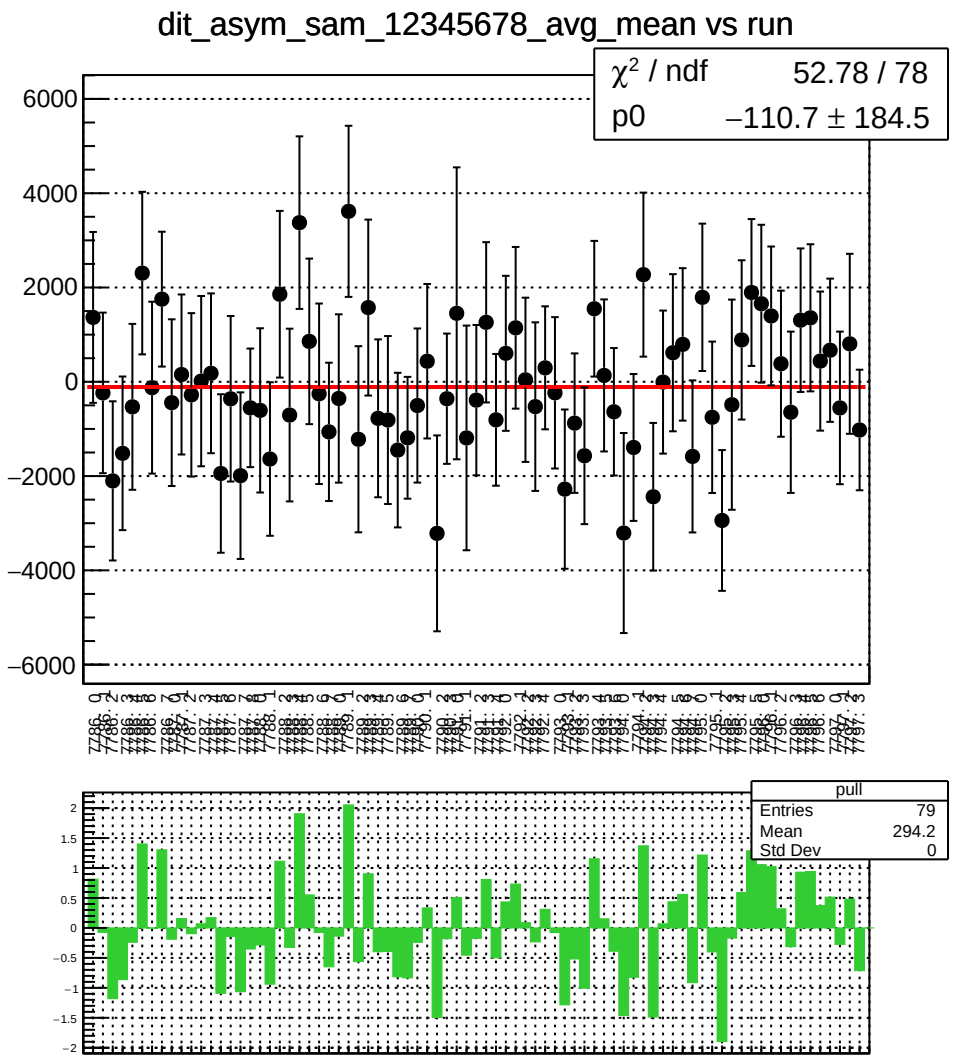

pull1D
Entries 79
Mean −0.003054
Std Dev 0.8617

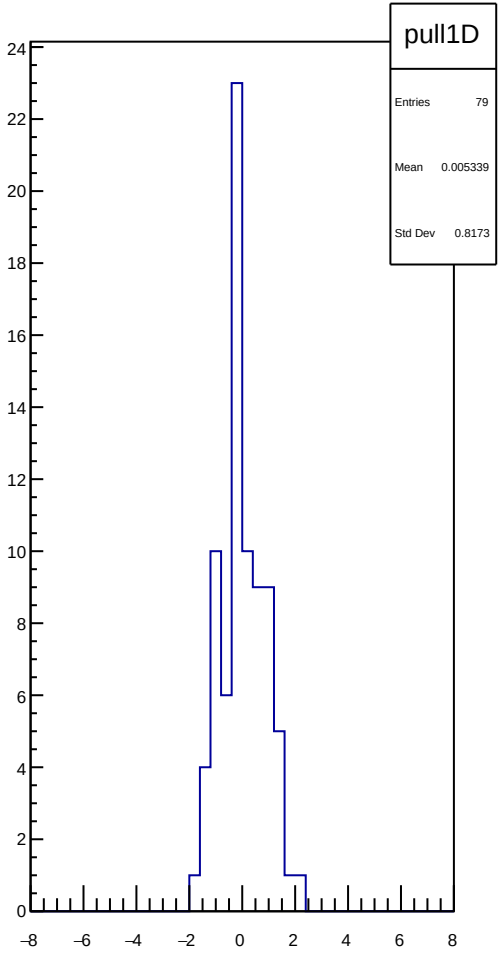

eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.463e+04 / 78
p0 152 ± 0.1233
280
260
240
220
200
180
160
140
120

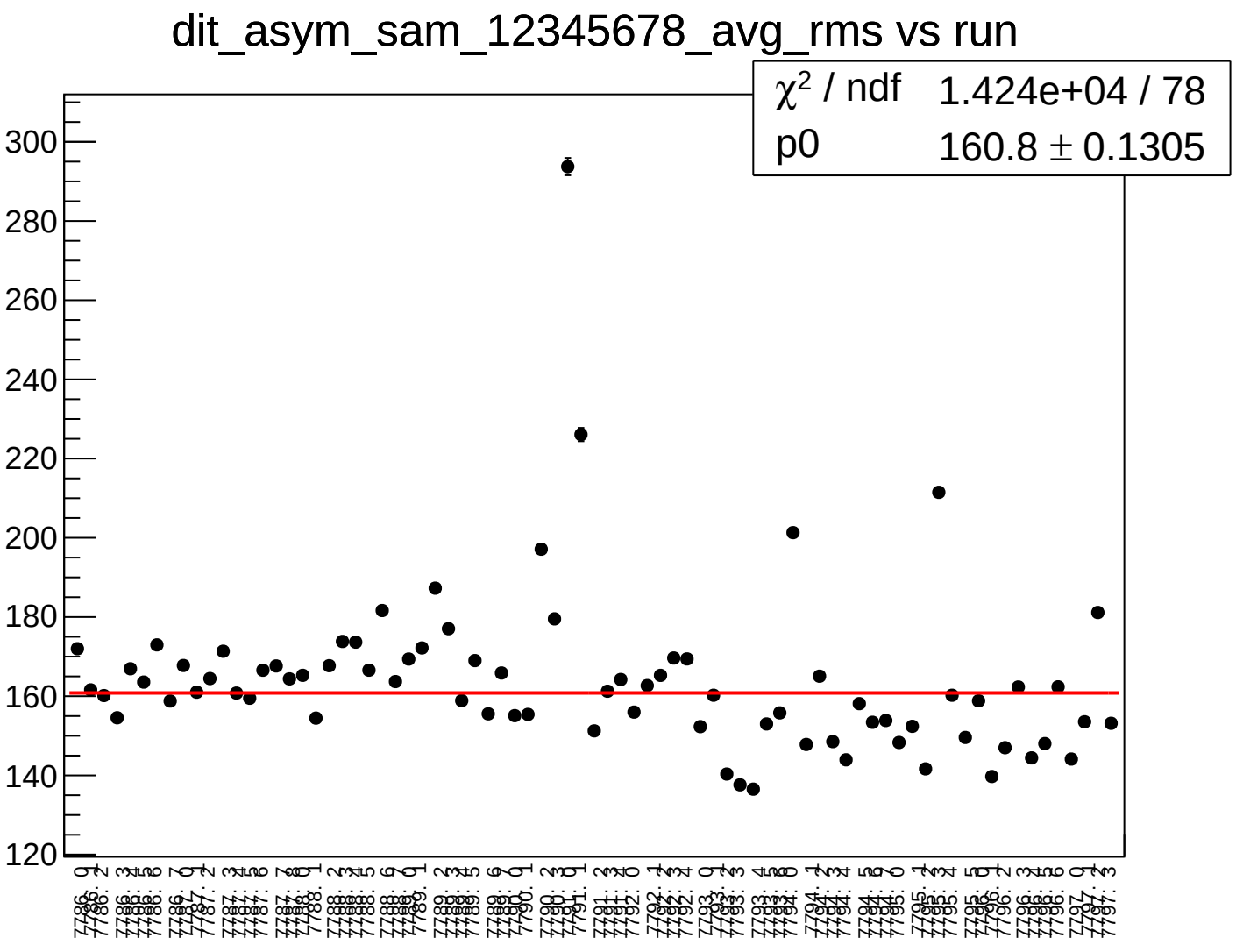

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.21 / 78
p0 −2924 ± 1903
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −64.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

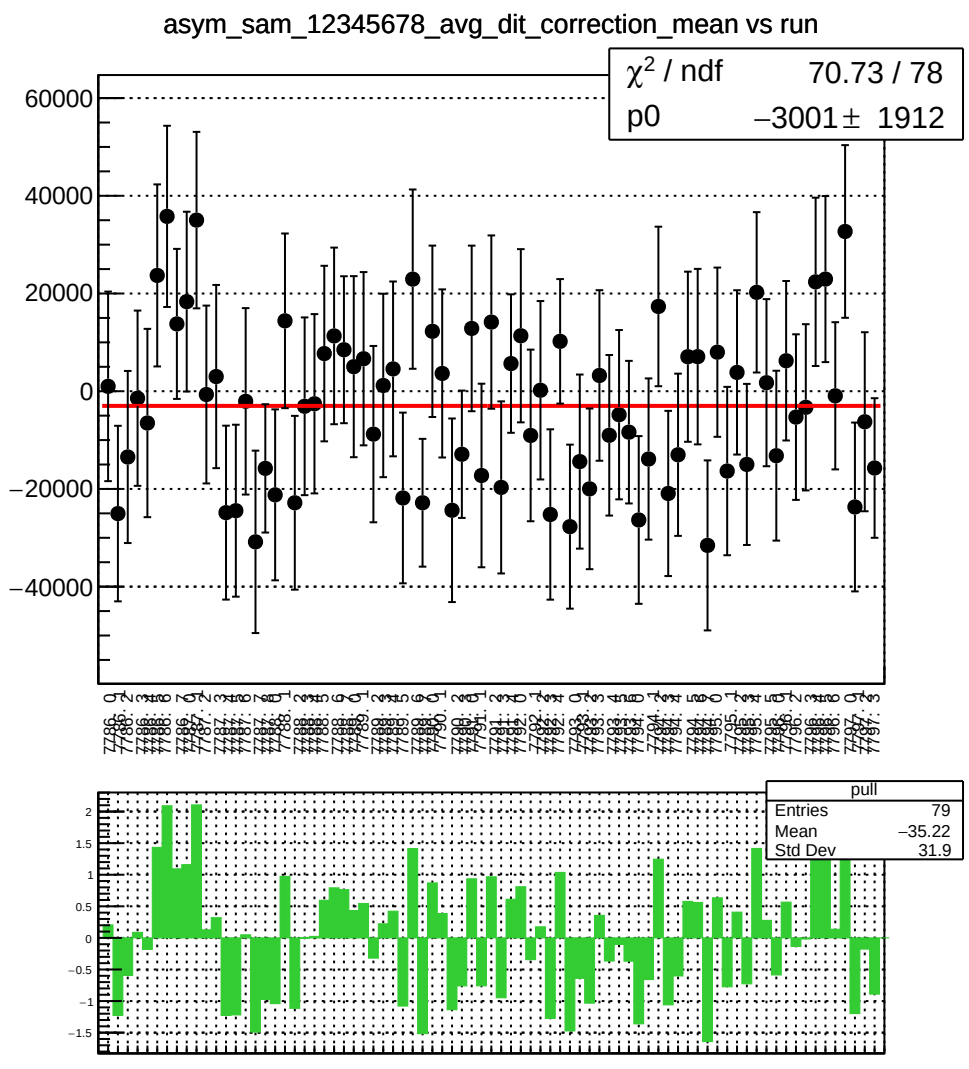

pull1D
Entries 79
Mean 0.008238
Std Dev 0.9494
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

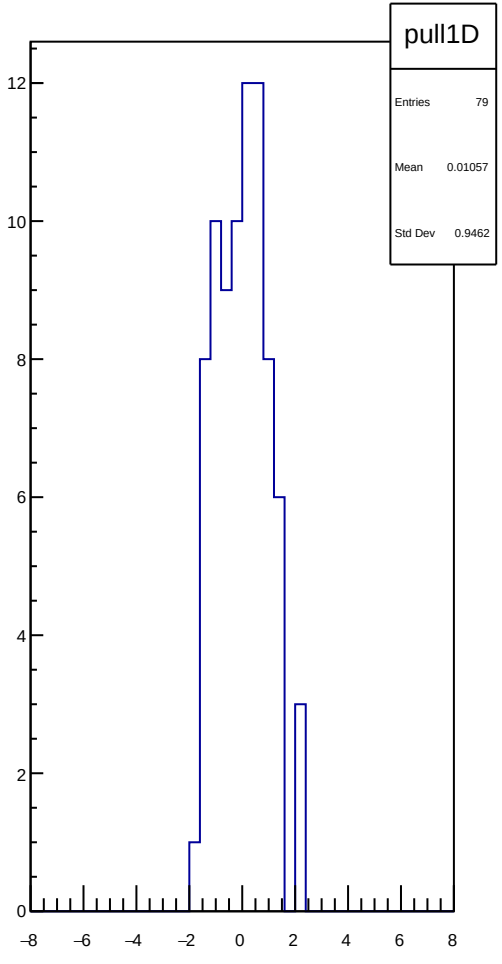

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 3049 / 78
p0 1665 ± 1.346
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

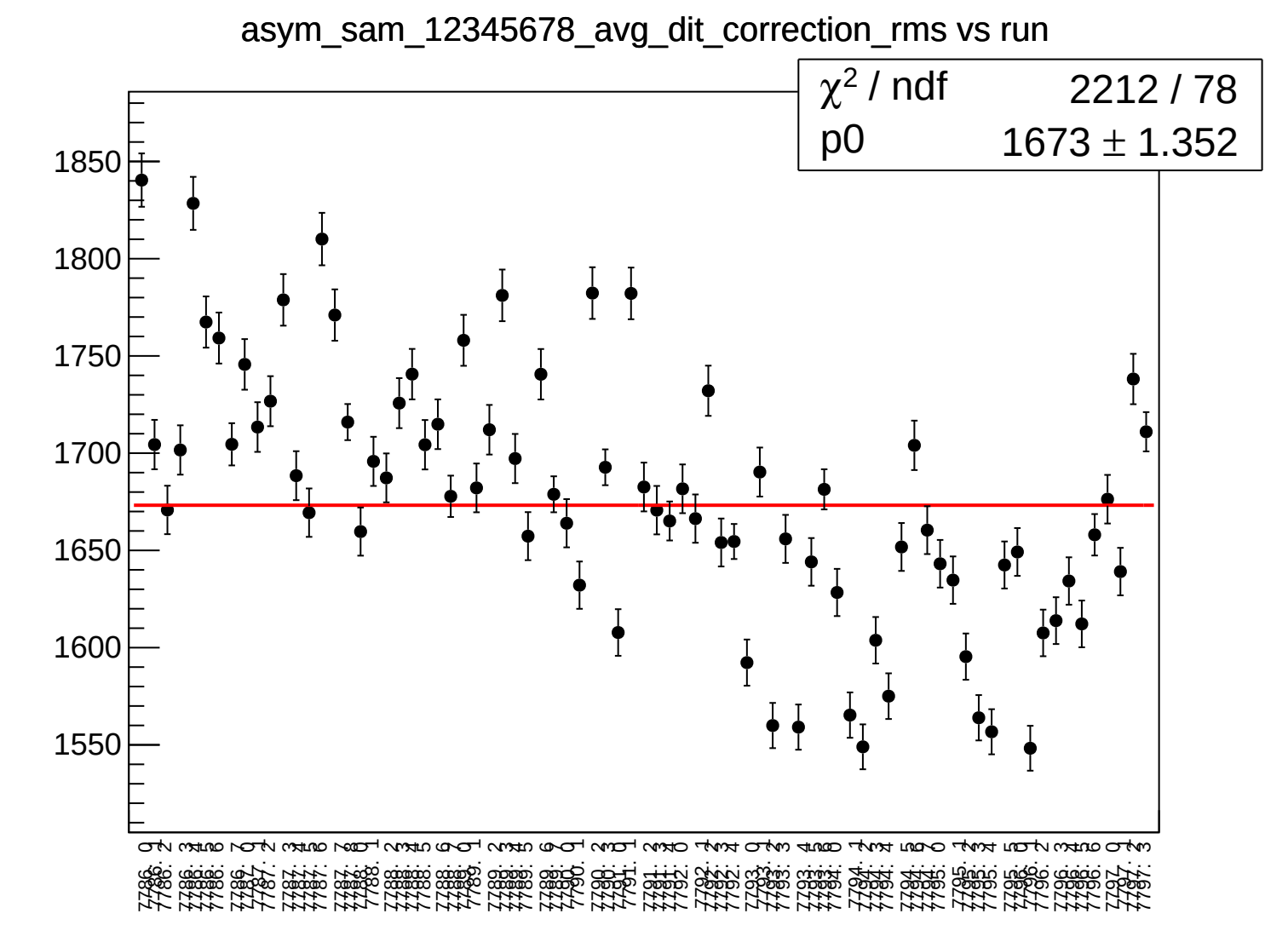

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 52.78 / 78
p0 −110.7 ± 184.5
pull
Entries 79
Mean 294.2
Std Dev 0

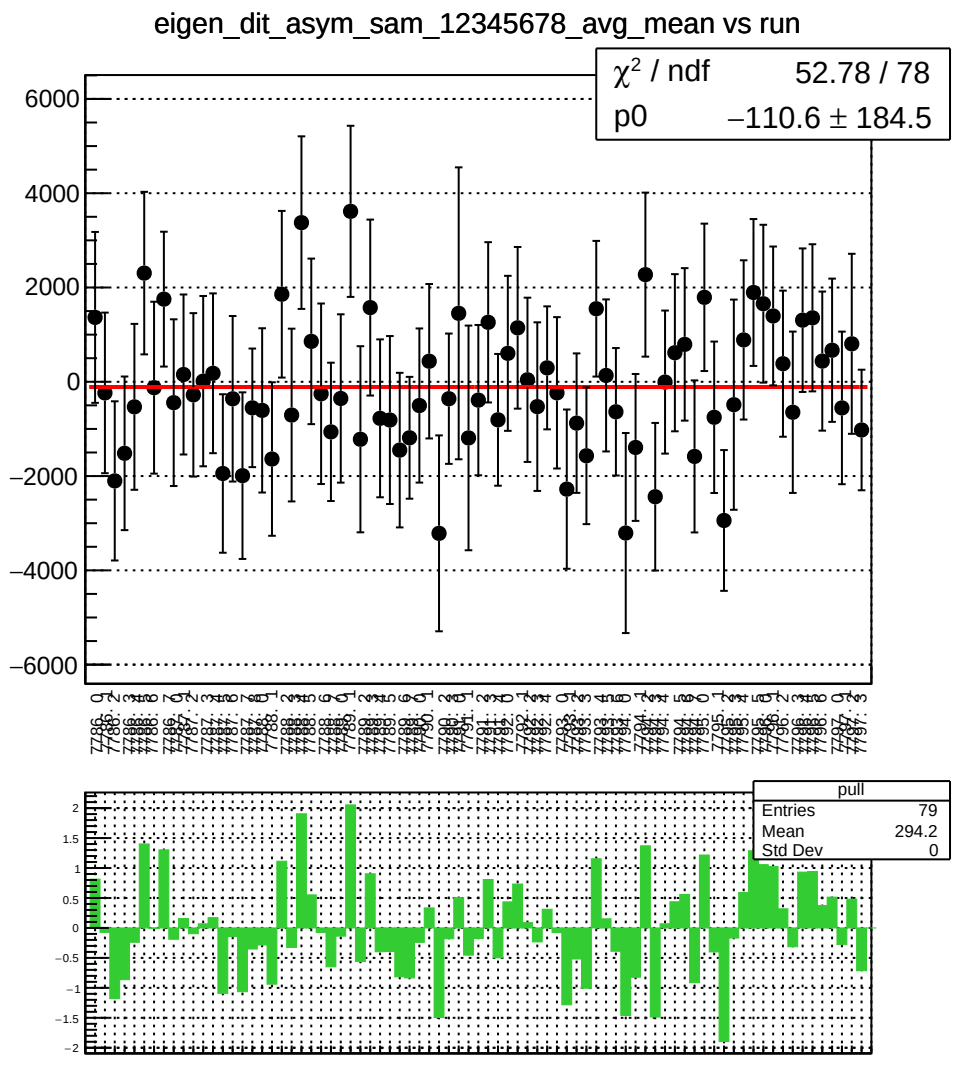

pull1D
Entries 79
Mean 0.005339
Std Dev 0.8173

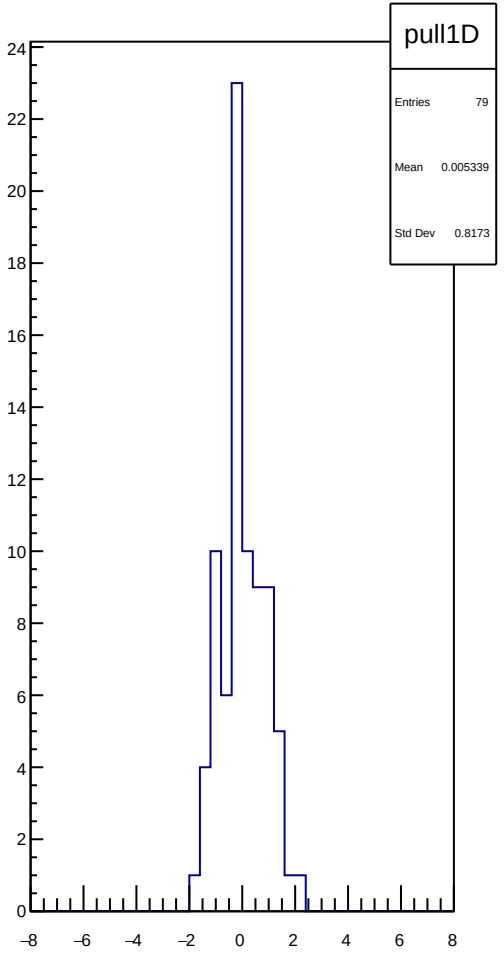

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.424e+04 / 78
p0 160.8 ± 0.1305
300
280
260
240
220
200
180
160
140
120

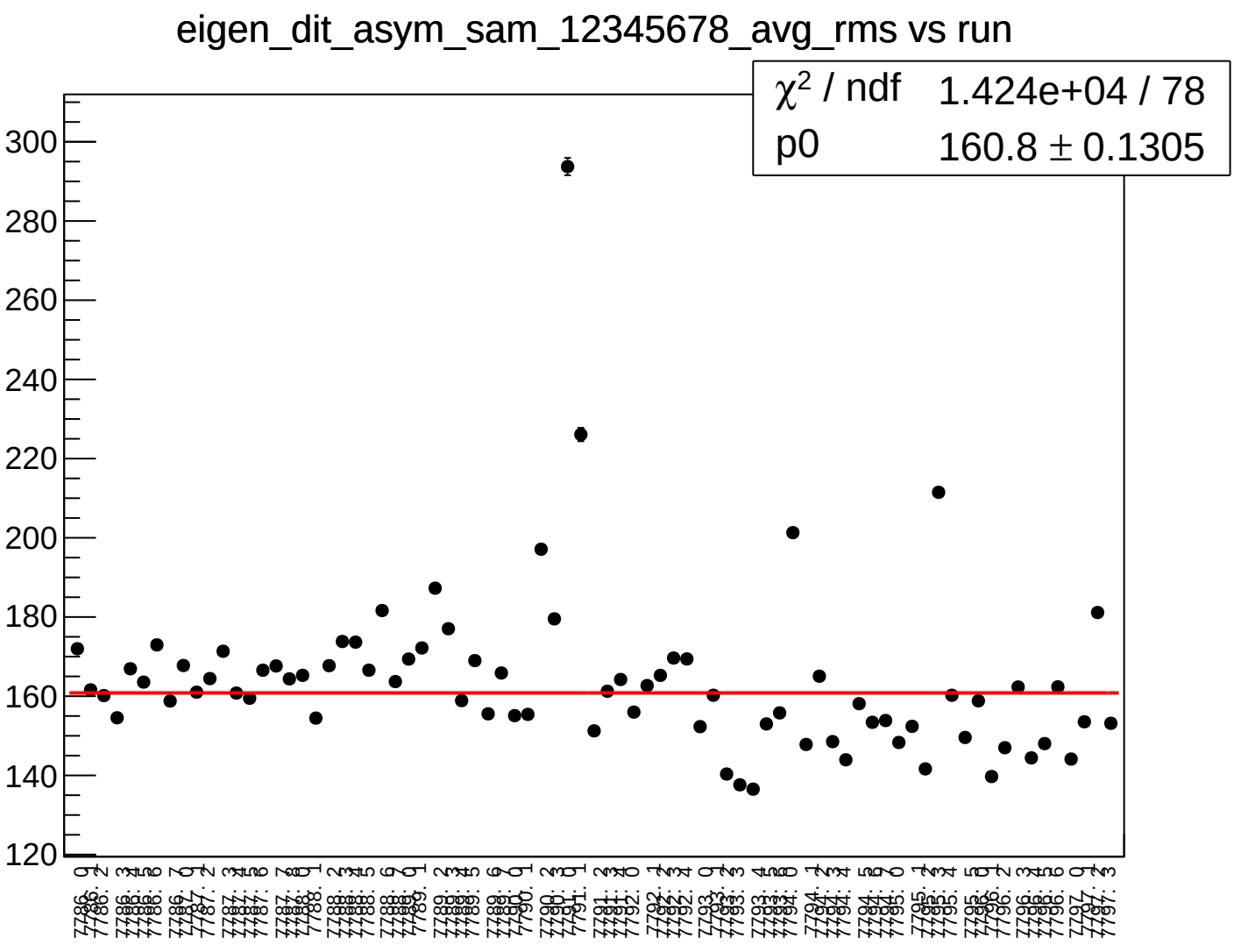

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 70.73 / 78
p0 −3001 ± 1912
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −35.22
Std Dev 31.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

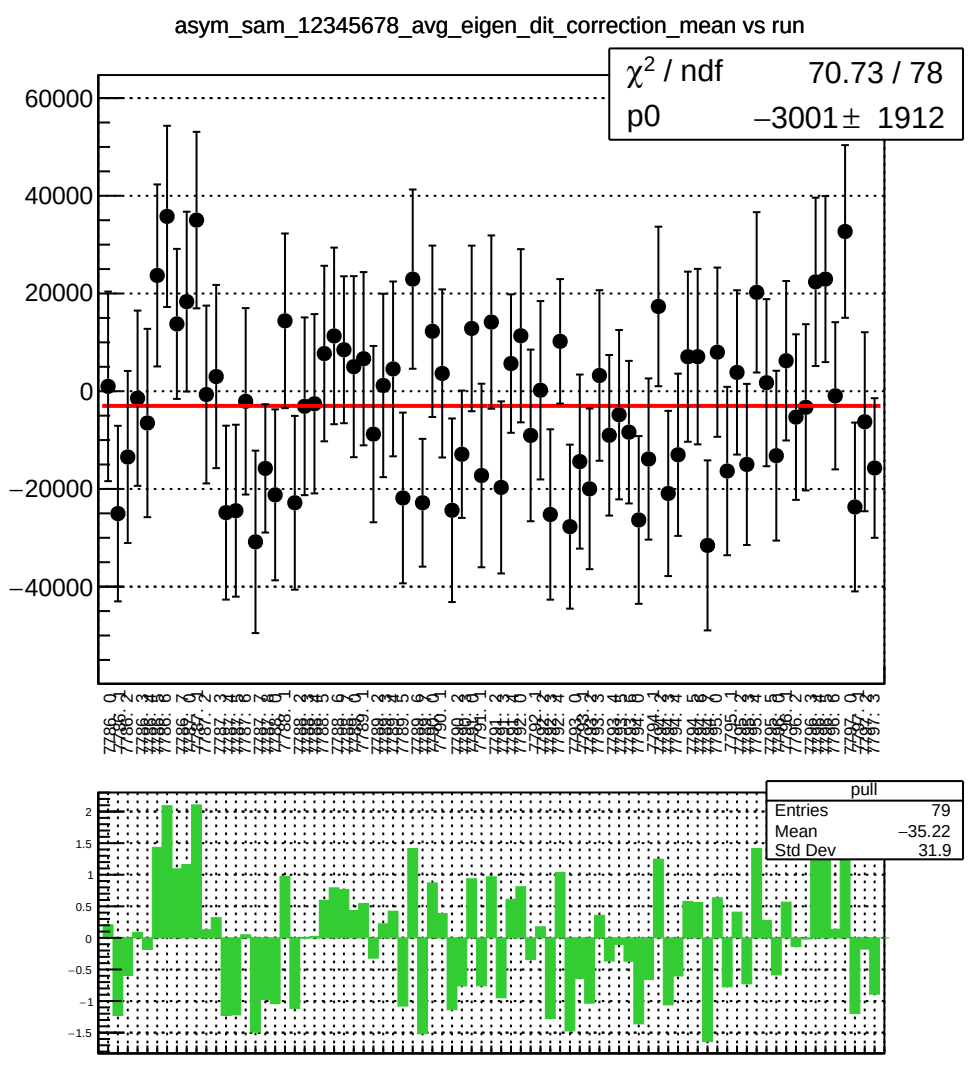

pull1D
Entries 79
Mean 0.01057
Std Dev 0.9462
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

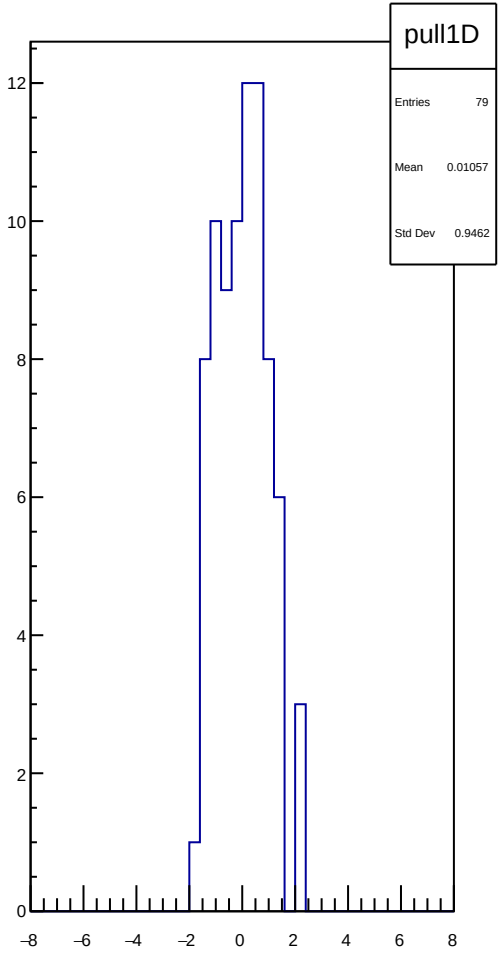

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 2212 / 78
p0 1673 ± 1.352
1850
1800
1750
1700
1650
1600
1550

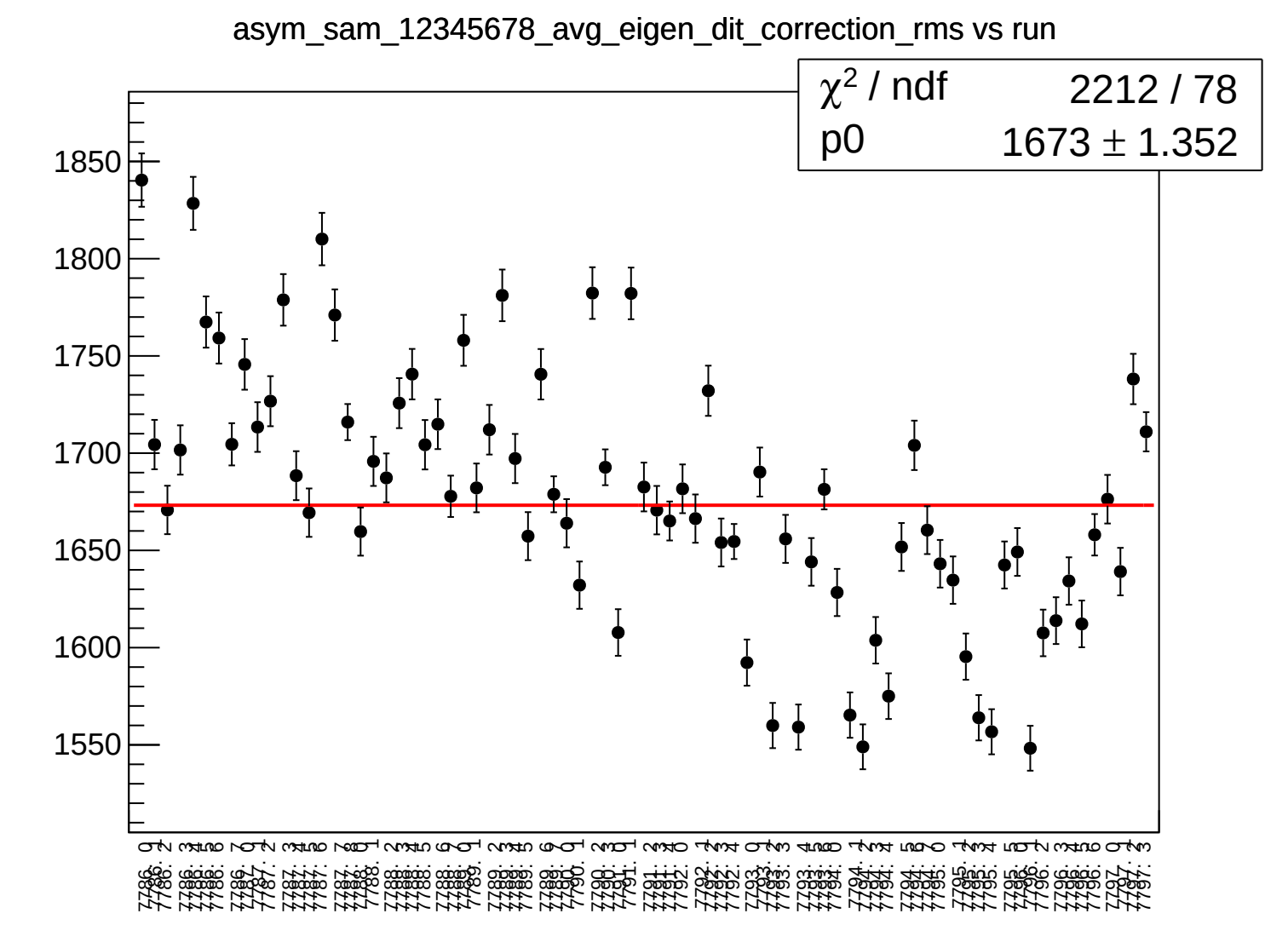

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 52.78 / 78
p0 −110.6 ± 184.5
pull
Entries 79
Mean 294.2
Std Dev 0

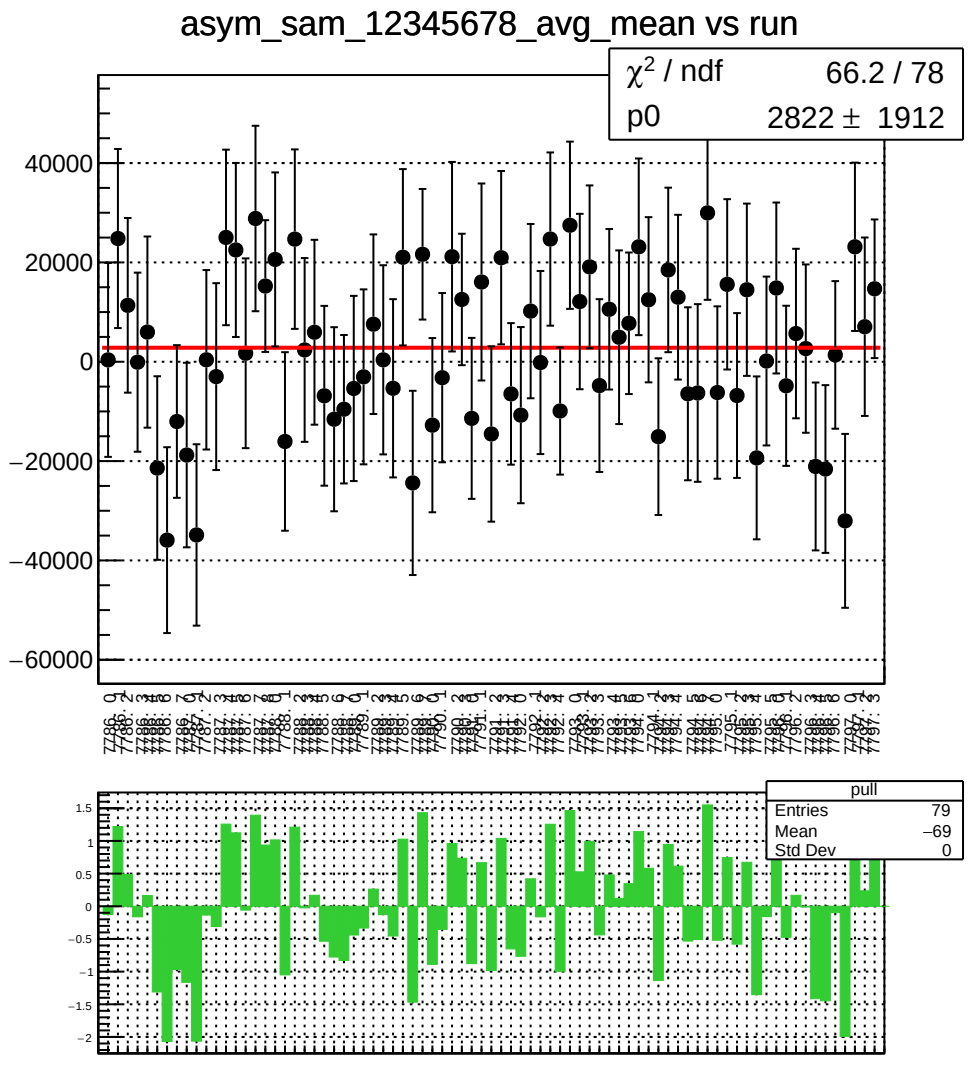

pull1D
Entries 79
Mean 0.005339
Std Dev 0.8173

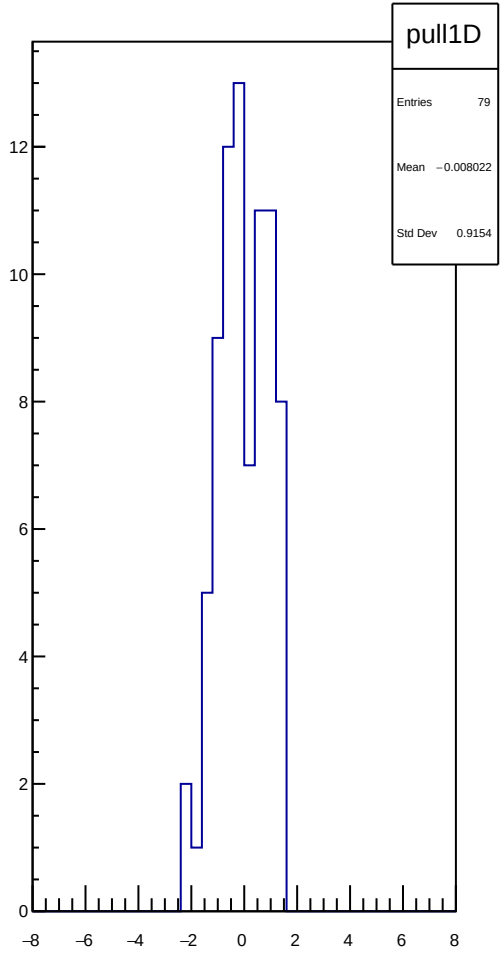

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.424e+04 / 78
p0 160.8 ± 0.1305
300
280
260
240
220
200
180
160
140
120

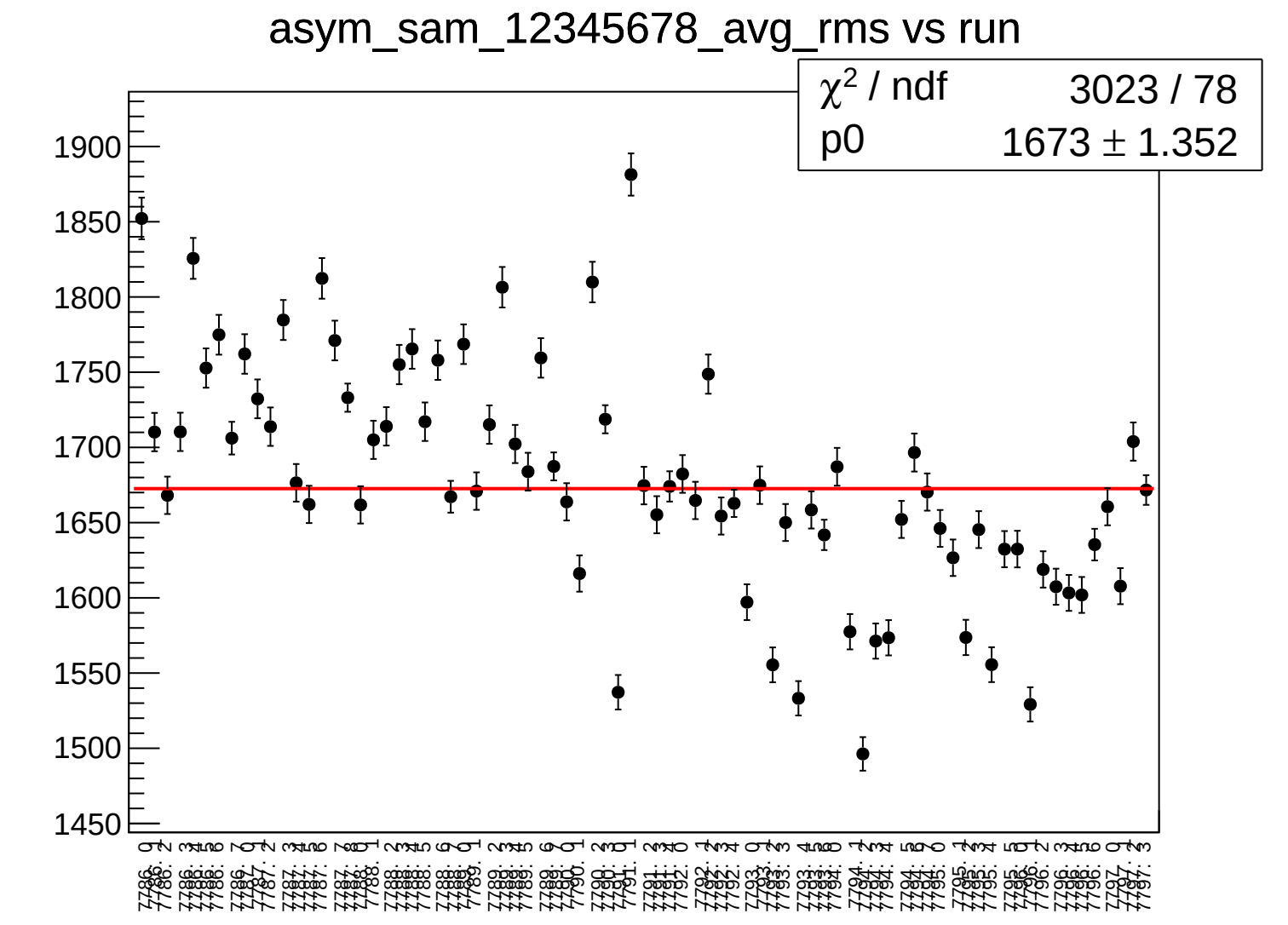

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.73 / 78
p0 −3001 ± 1912
60000
40000
20000
0
−20000
−40000
pull
Entries 79
Mean −35.22
Std Dev 31.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

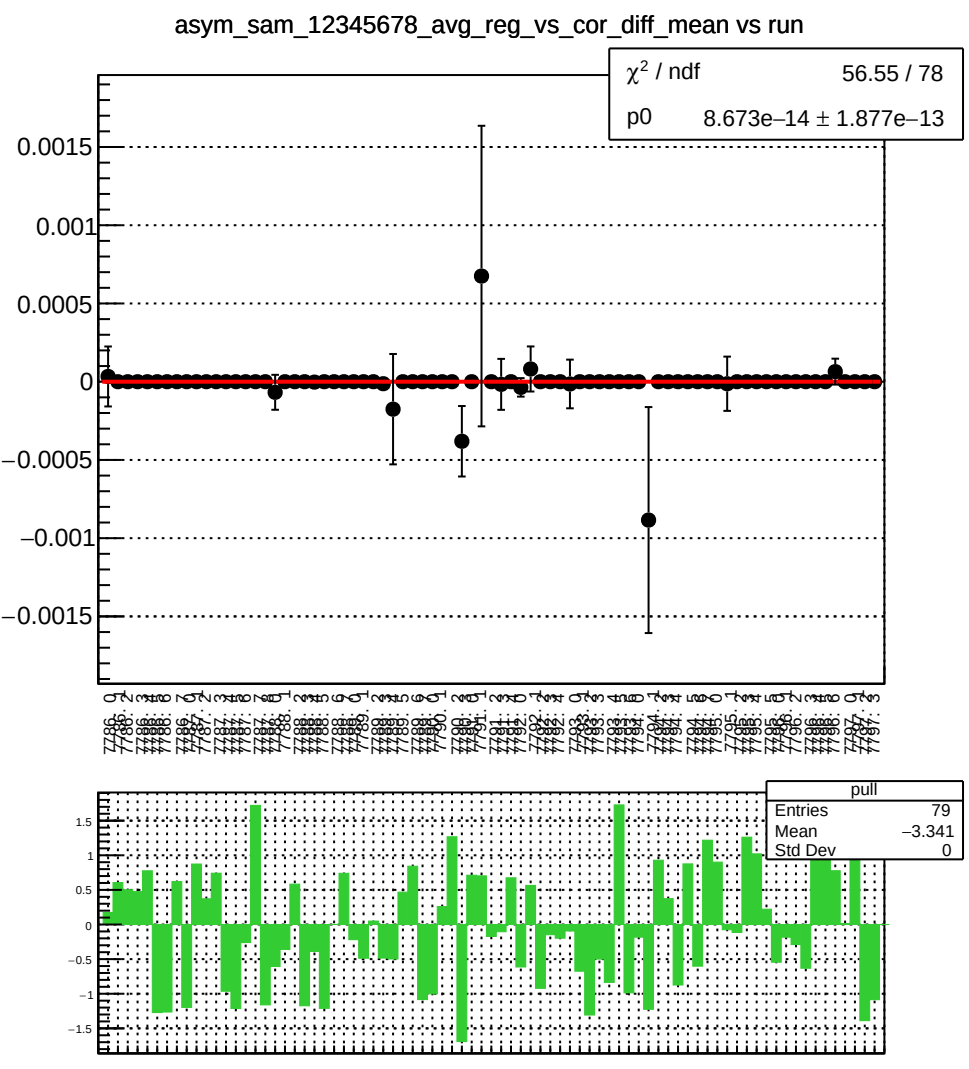

pull1D
Entries 79
Mean 0.01057
Std Dev 0.9462
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

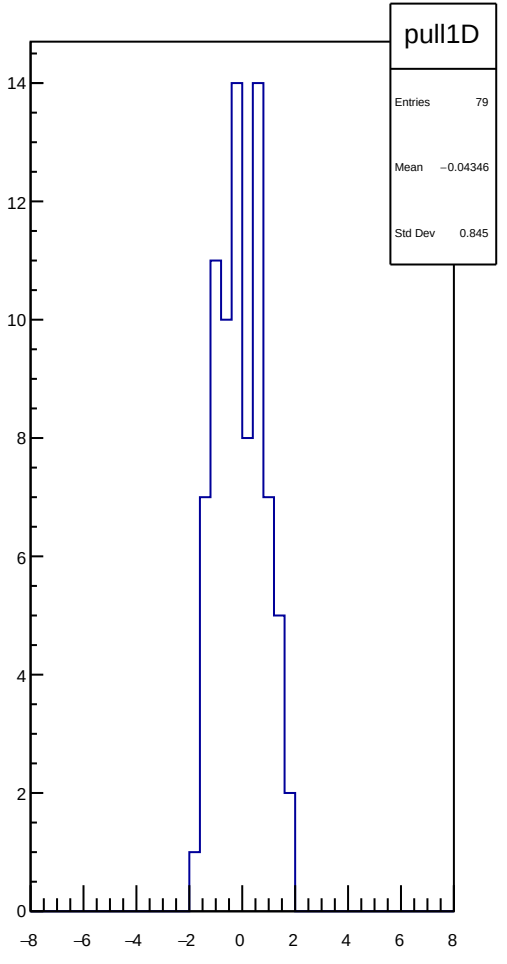

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 2212 / 78
p0 1673 ± 1.352
1850
1800
1750
1700
1650
1600
1550

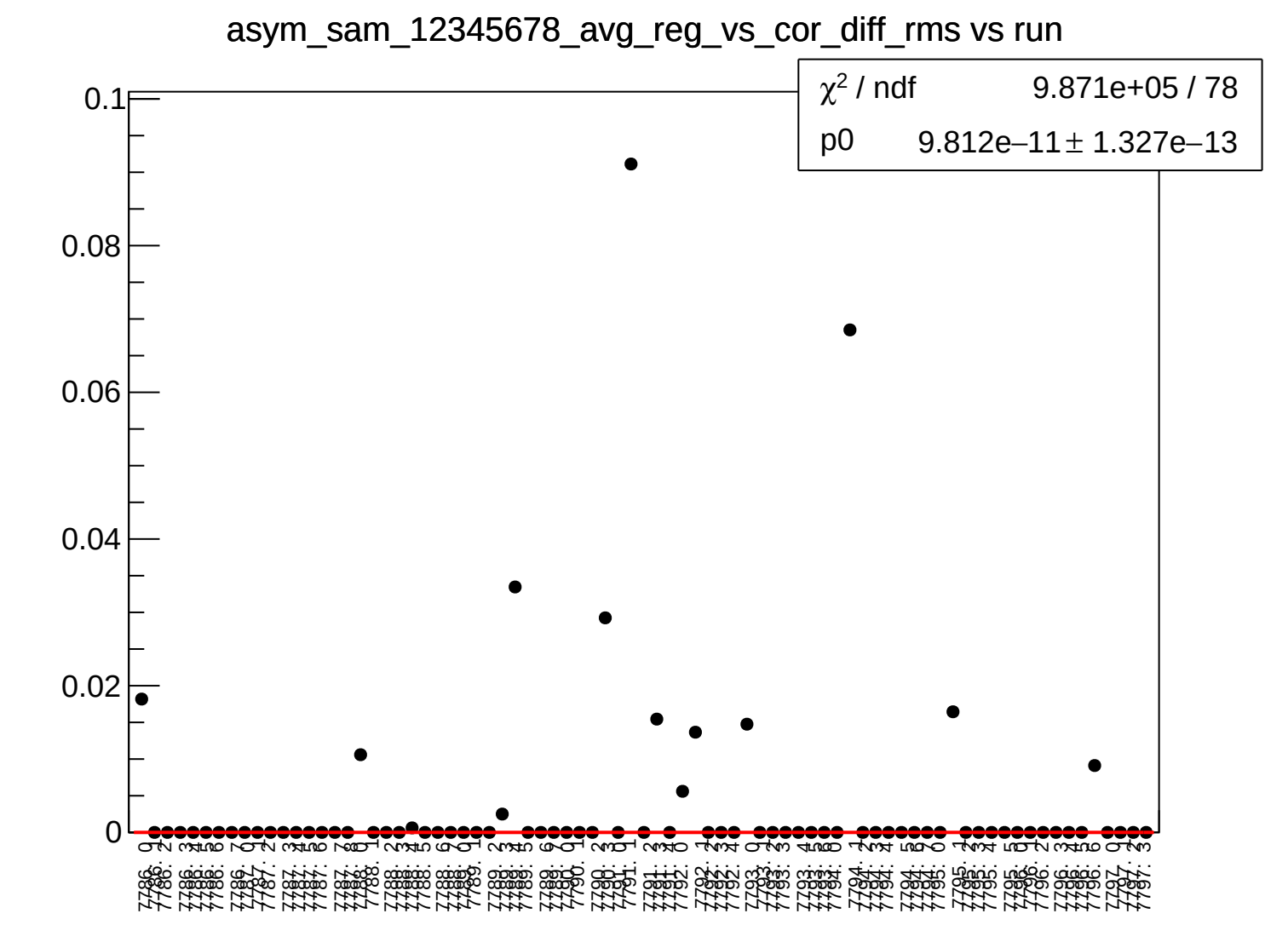

asym_sam_12345678_avg_mean vs run
χ² / ndf 66.2 / 78
p0 2822 ± 1912
40000
20000
0
−20000
−40000
−60000
pull
Entries 79
Mean −69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

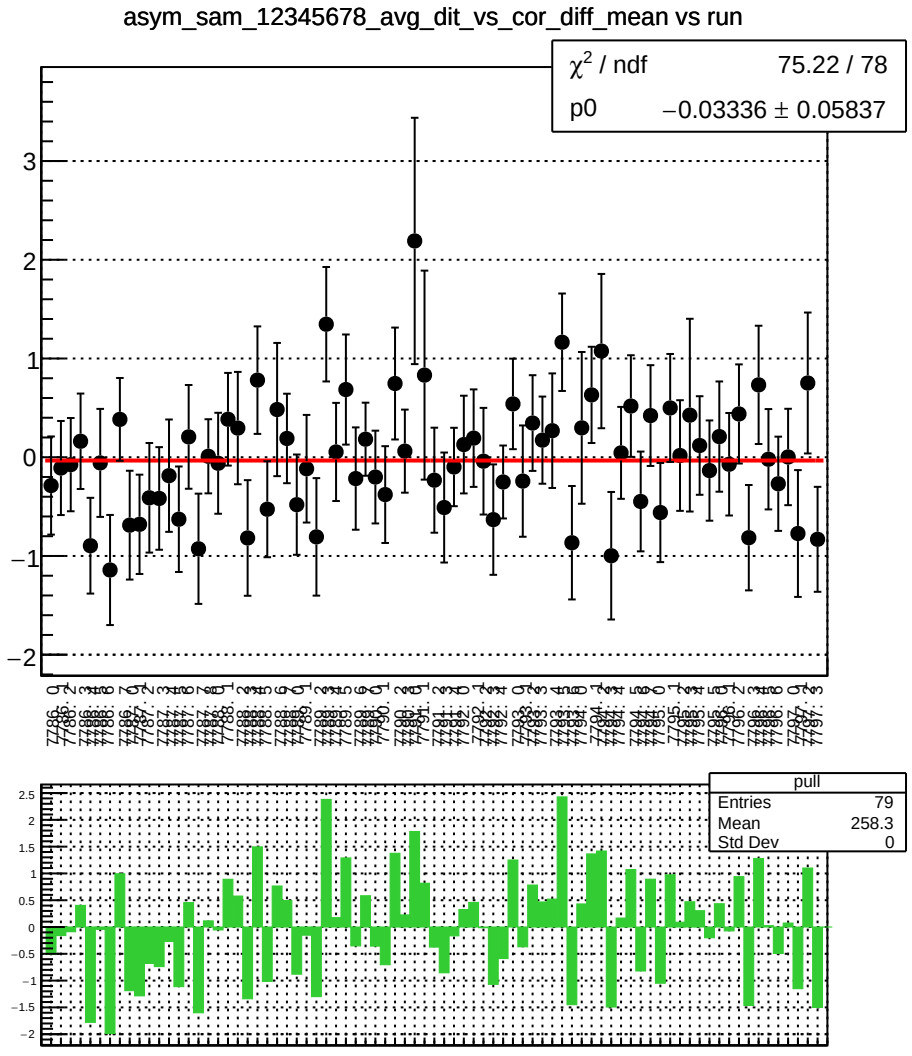

pull1D
Entries 79
Mean −0.008022
Std Dev 0.9154
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

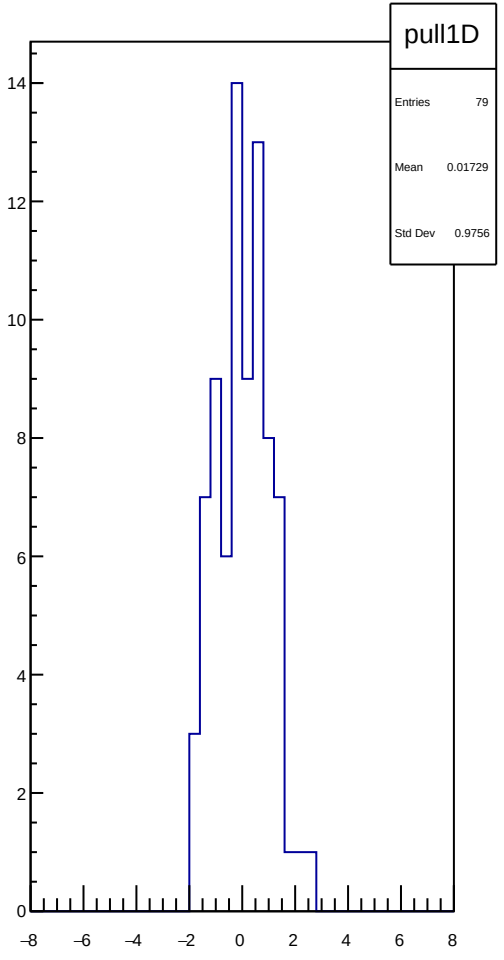

asym_sam_12345678_avg_rms vs run
χ^2 / ndf 3023 / 78
p0 1673 ± 1.352
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

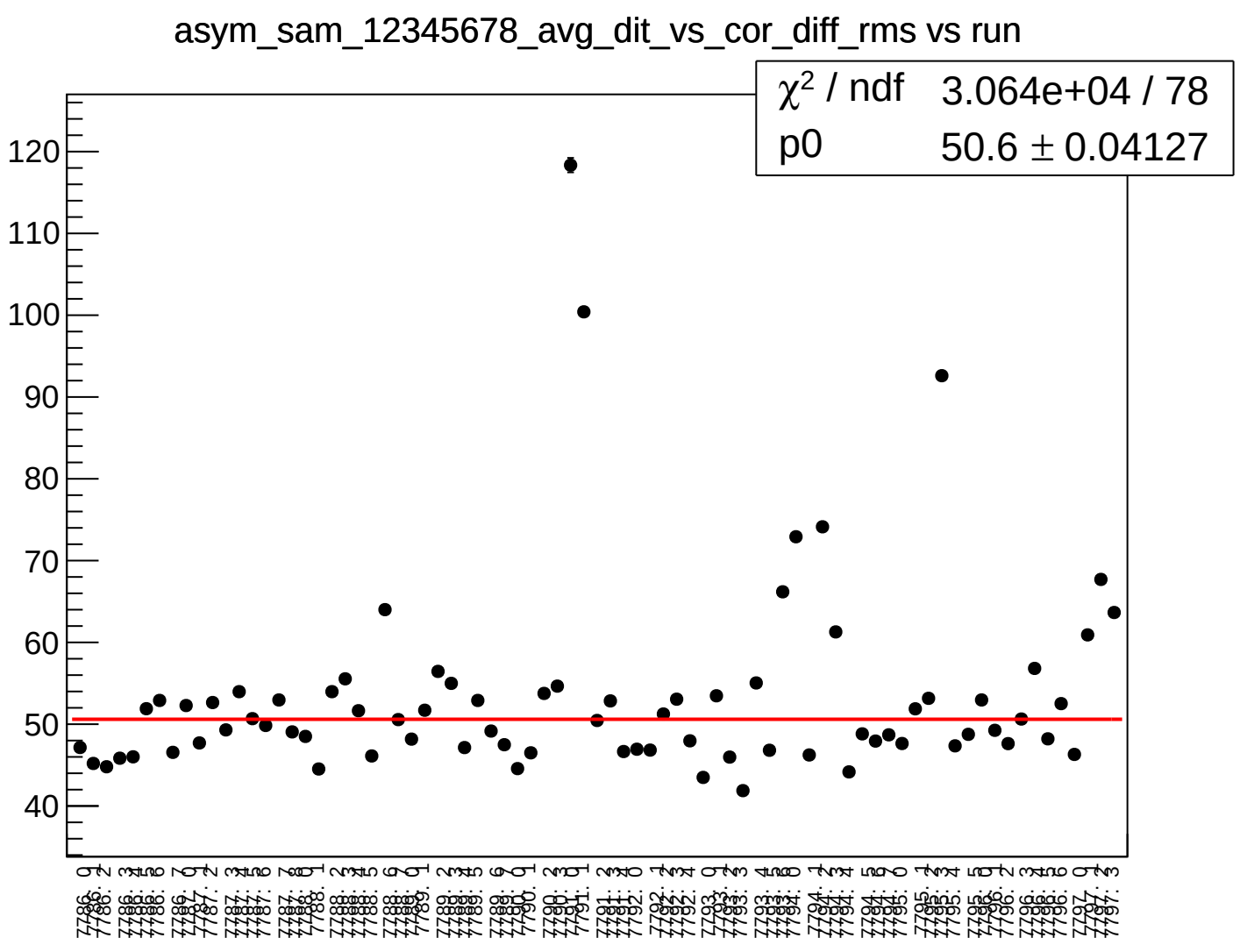

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 56.55 / 78
p0 8.673e−14 ± 1.877e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 79
Mean −3.341
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

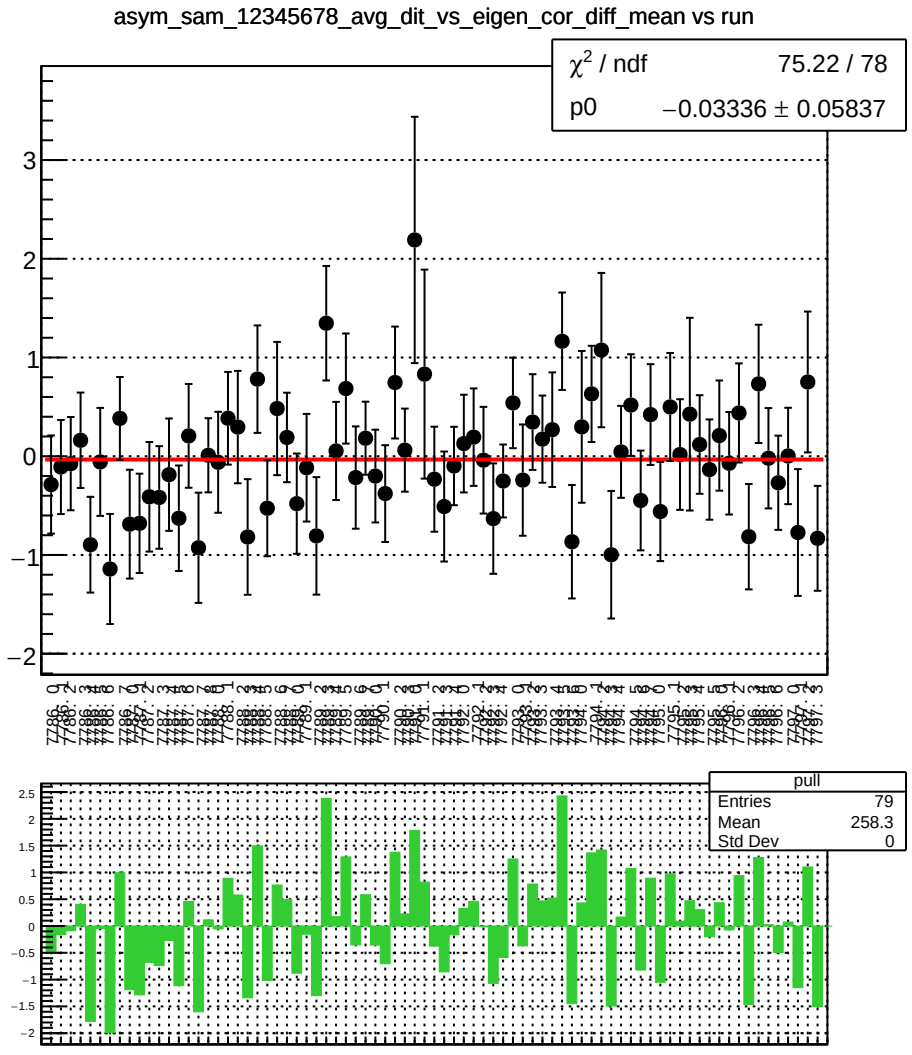

pull1D
Entries 79
Mean −0.04346
Std Dev 0.845
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

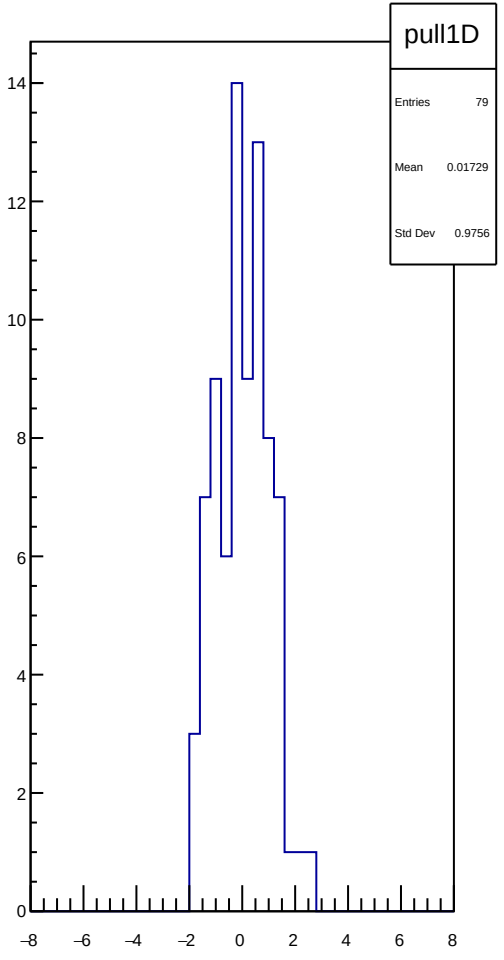

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.871e+05 / 78
p0 9.812e−11 ± 1.327e−13
0.1
0.08
0.06
0.04
0.02
0

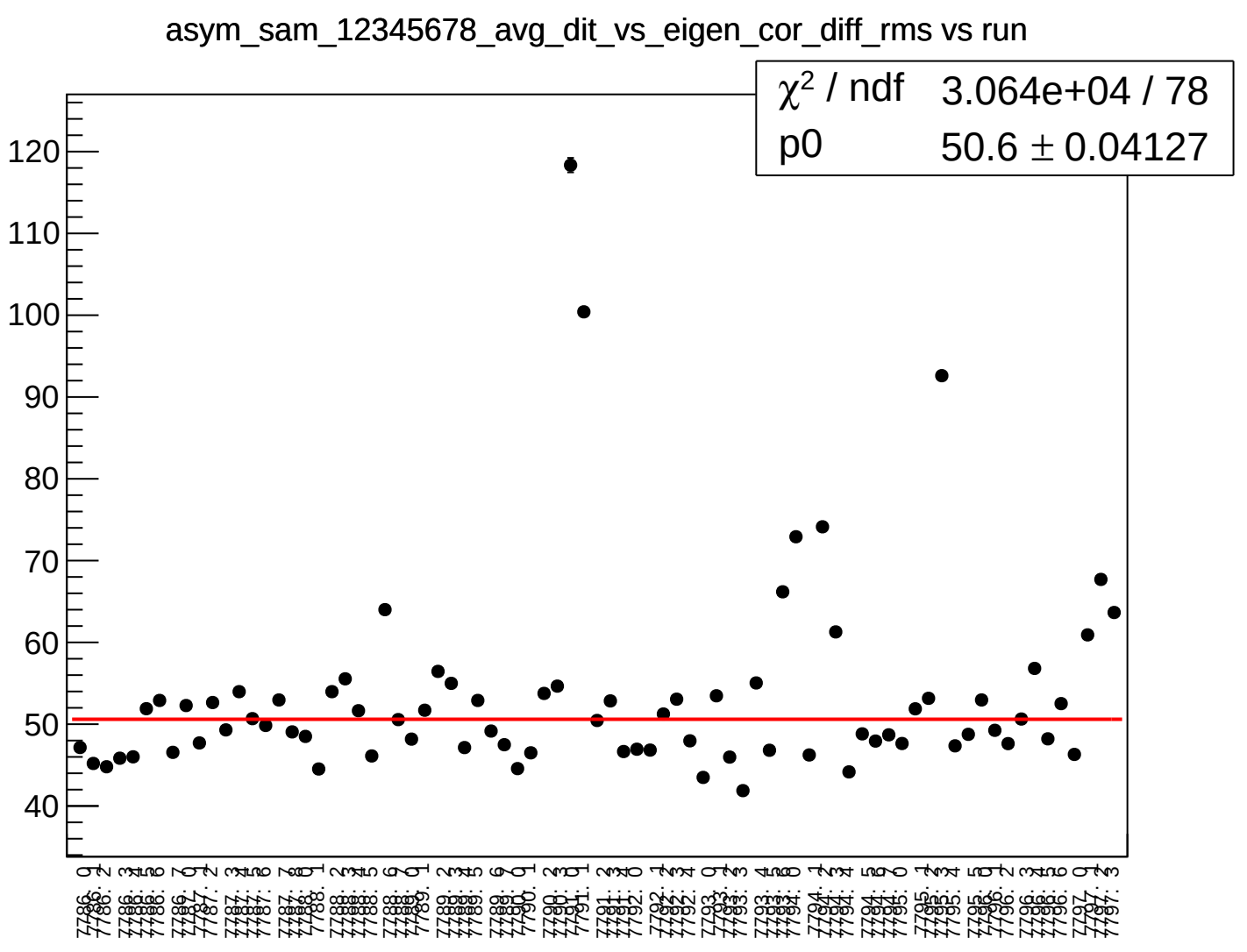

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.22 / 78
p0 −0.03336 ± 0.05837
pull
Entries 79
Mean 258.3
Std Dev 0

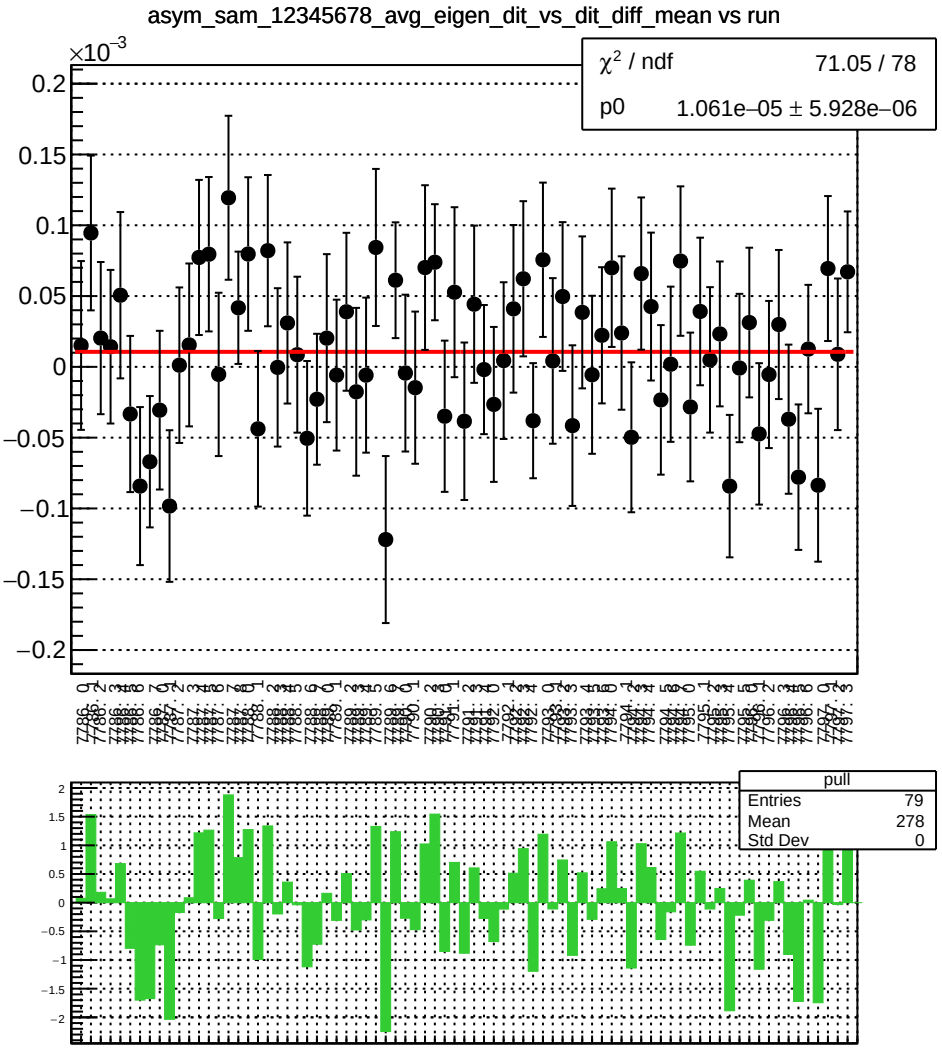

pull1D
Entries 79
Mean 0.01729
Std Dev 0.9756

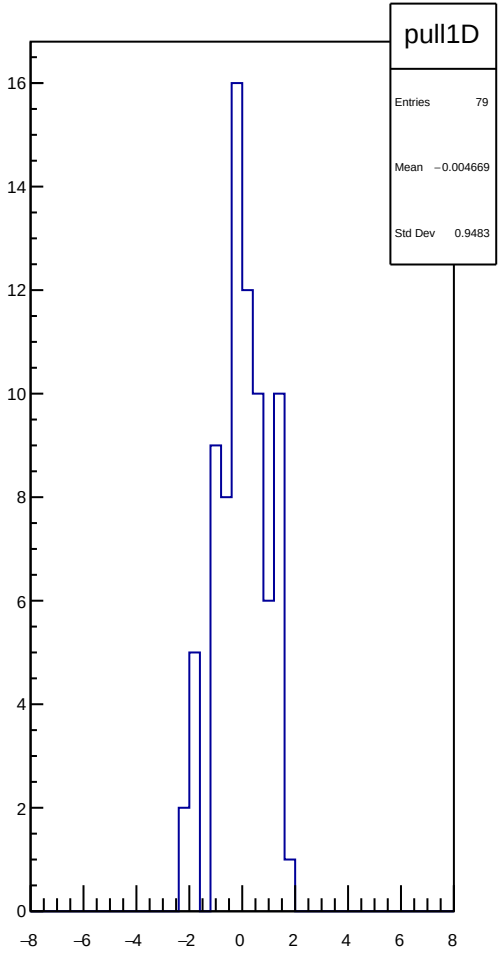

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.064e+04 / 78
p0 50.6 ± 0.04127
120
110
100
90
80
70
60
50
40

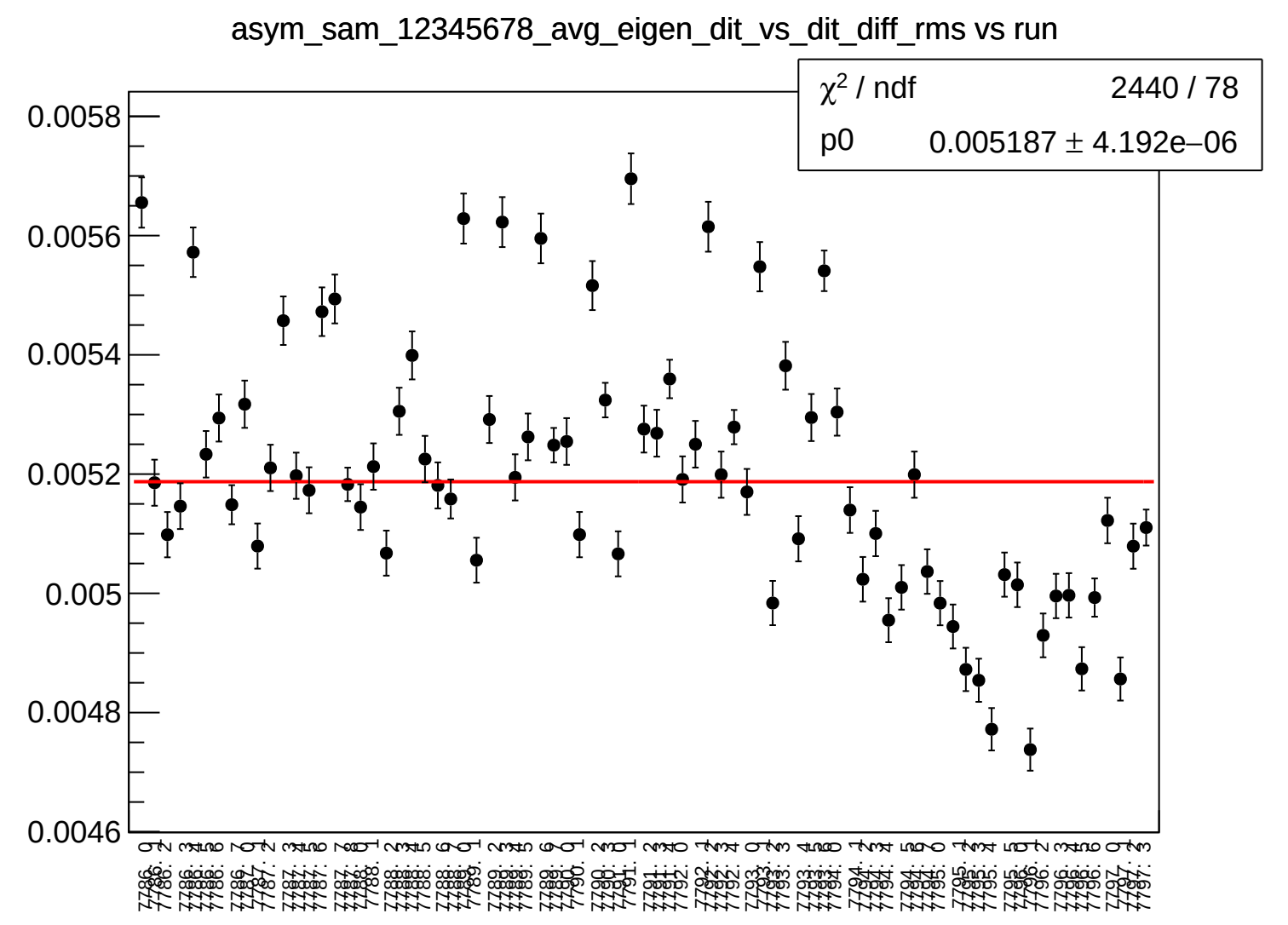

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.22 / 78
p0 −0.03336 ± 0.05837
pull
Entries 79
Mean 258.3
Std Dev 0

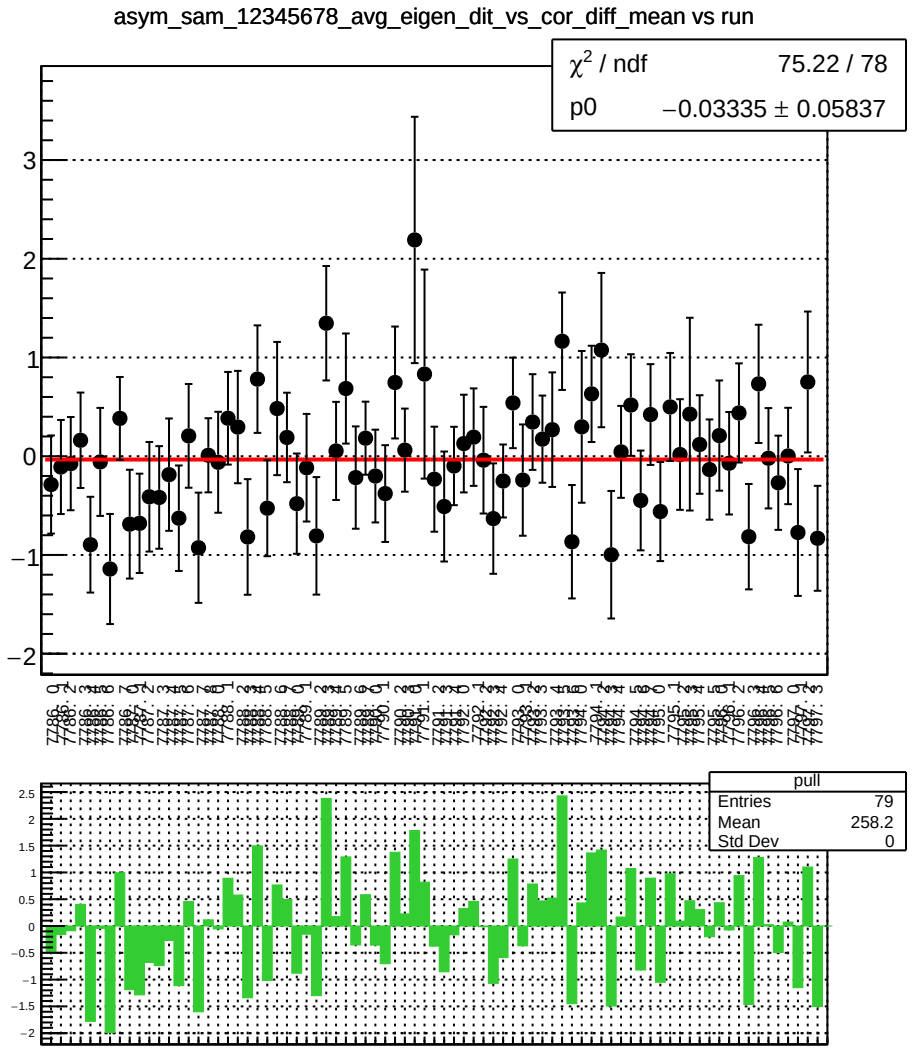

pull1D
Entries 79
Mean 0.01729
Std Dev 0.9756

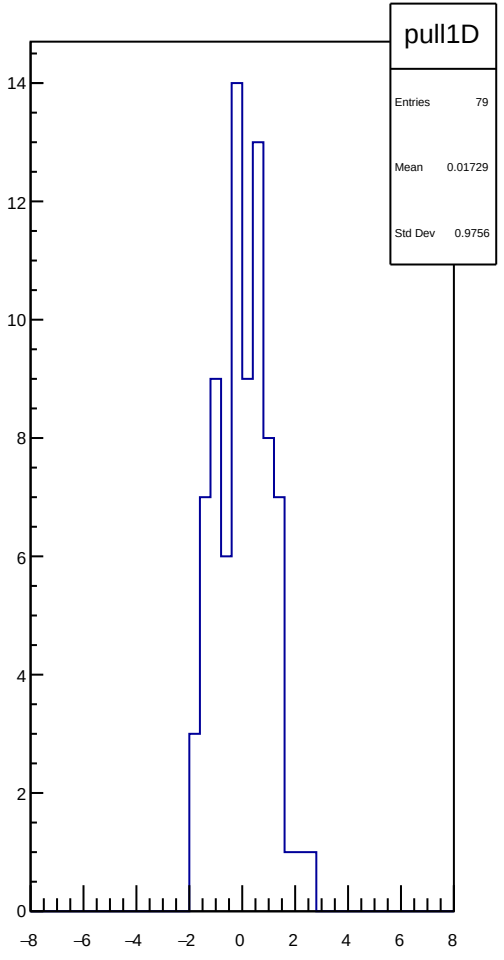

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.064e+04 / 78
p0 50.6 ± 0.04127
120
110
100
90
80
70
60
50
40

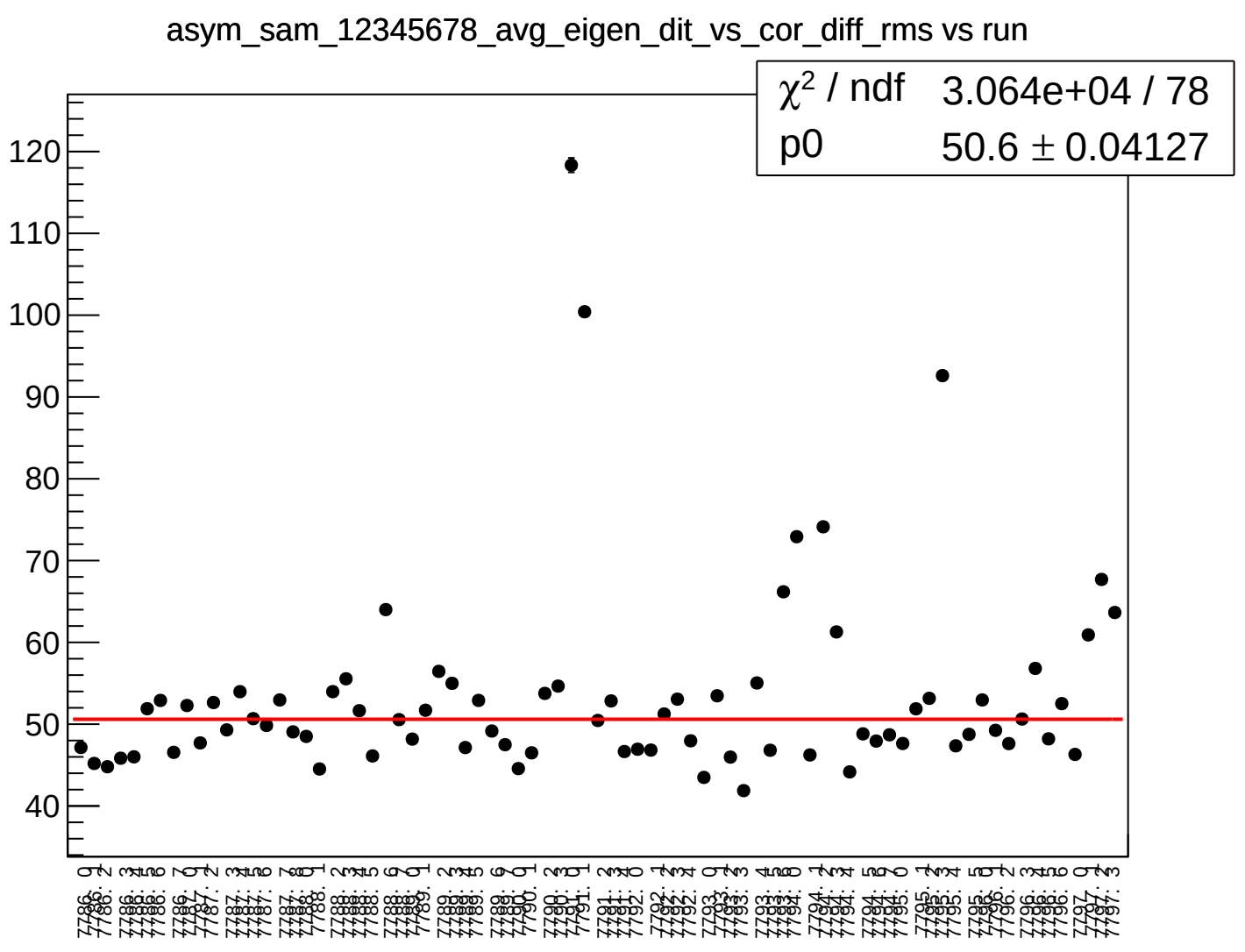

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.05 / 78
p0 1.061e−05 ± 5.928e−06
pull
Entries 79
Mean 278
Std Dev 0

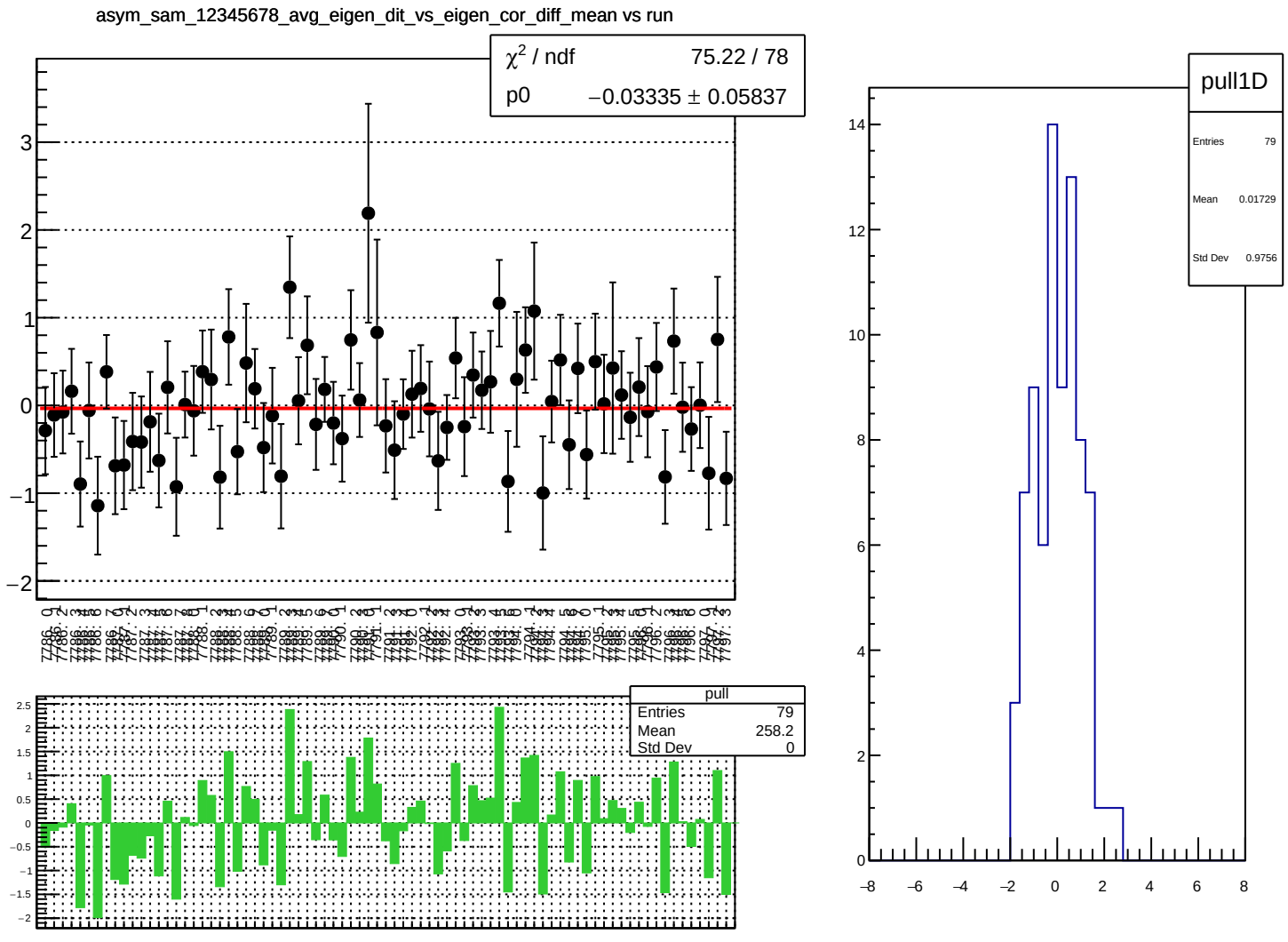

pull1D
Entries 79
Mean −0.004669
Std Dev 0.9483

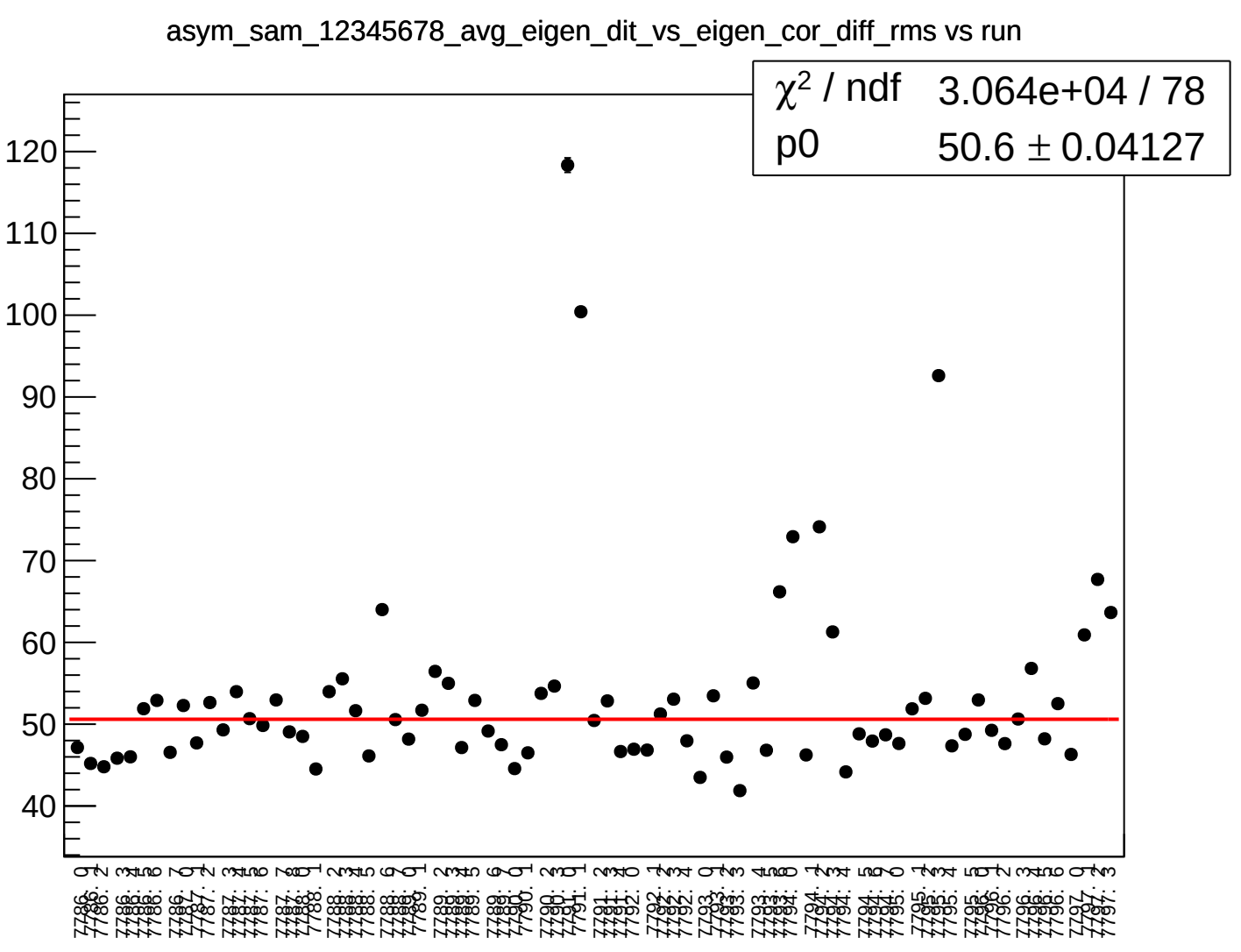

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2440 / 78
p0 0.005187 ± 4.192e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046

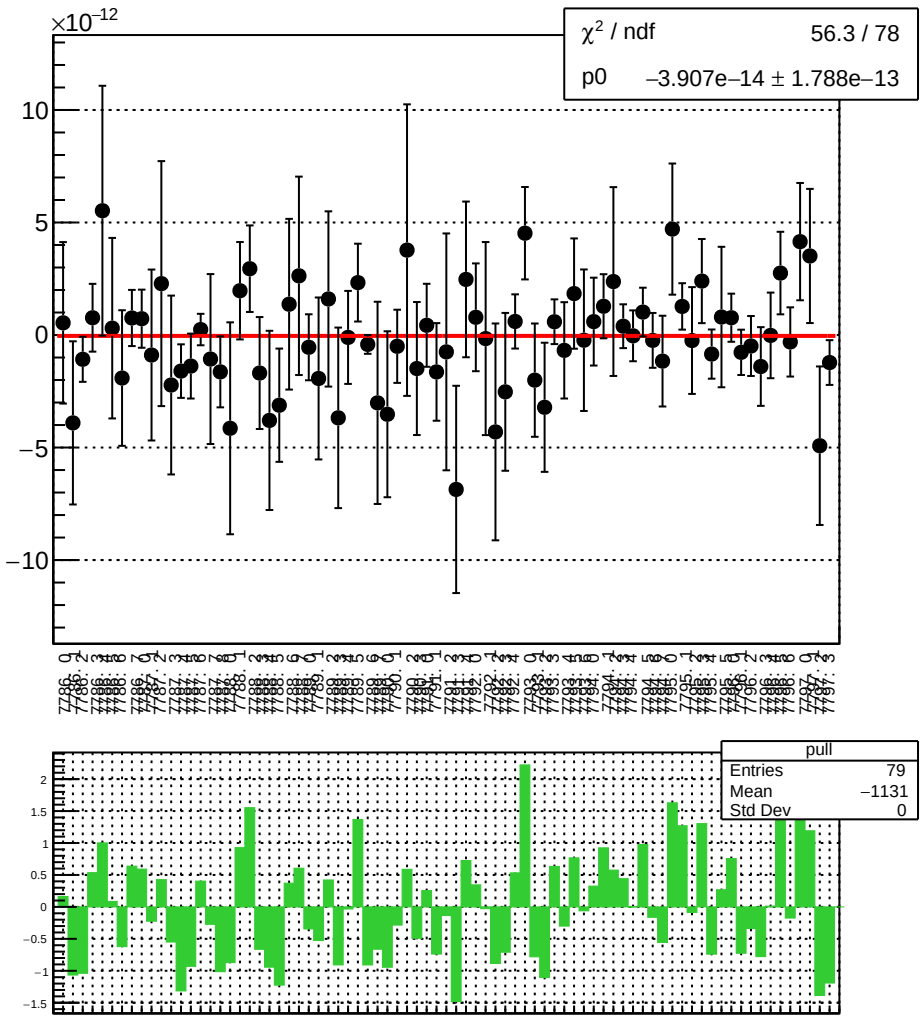

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.22 / 78
p0 −0.03335 ± 0.05837
pull
Entries 79
Mean 258.2
Std Dev 0

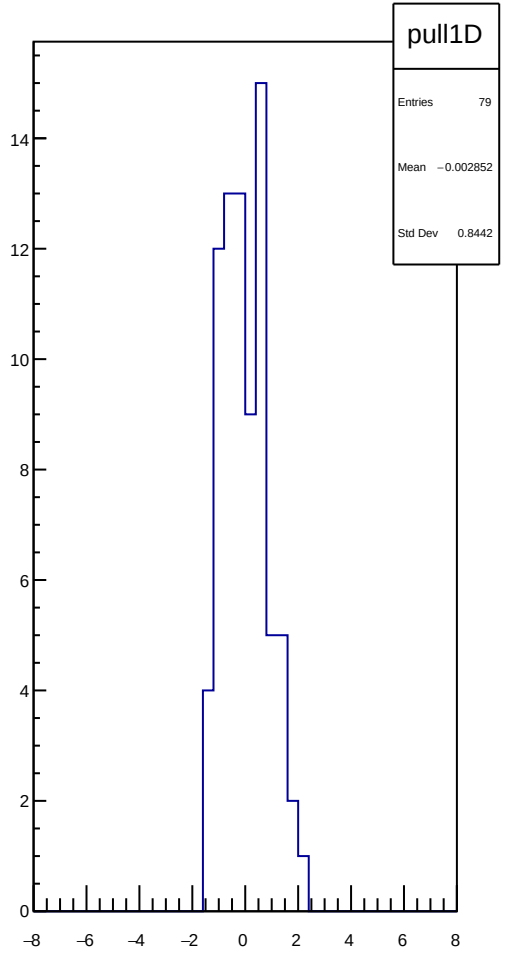

pull1D
Entries 79
Mean 0.01729
Std Dev 0.9756

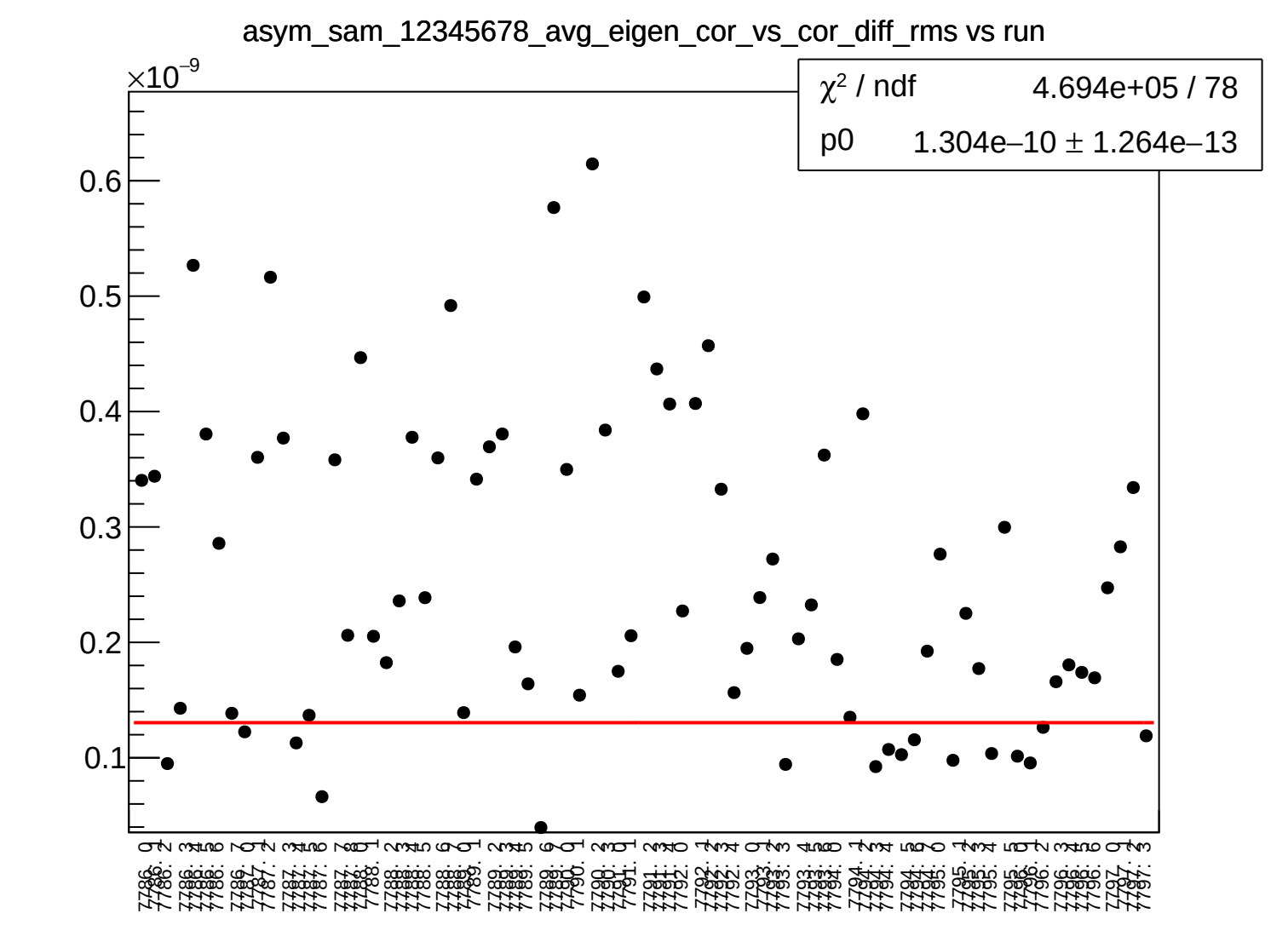

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.064e+04 / 78
p0 50.6 ± 0.04127
120
110
100
90
80
70
60
50
40

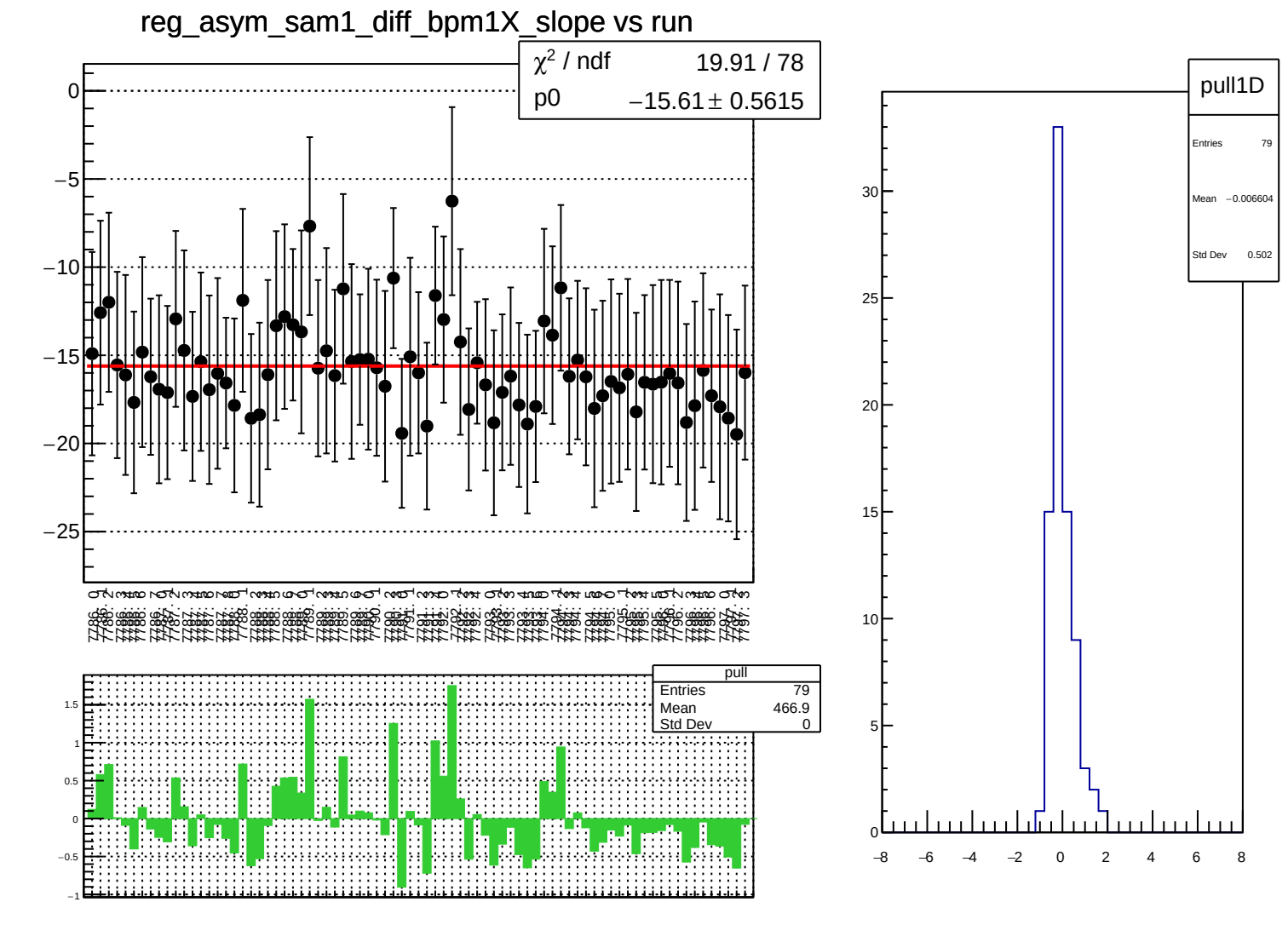

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.22 / 78
p0 −0.03335 ± 0.05837
pull
Entries 79
Mean 258.2
Std Dev 0
pull1D
Entries 79
Mean 0.01729
Std Dev 0.9756

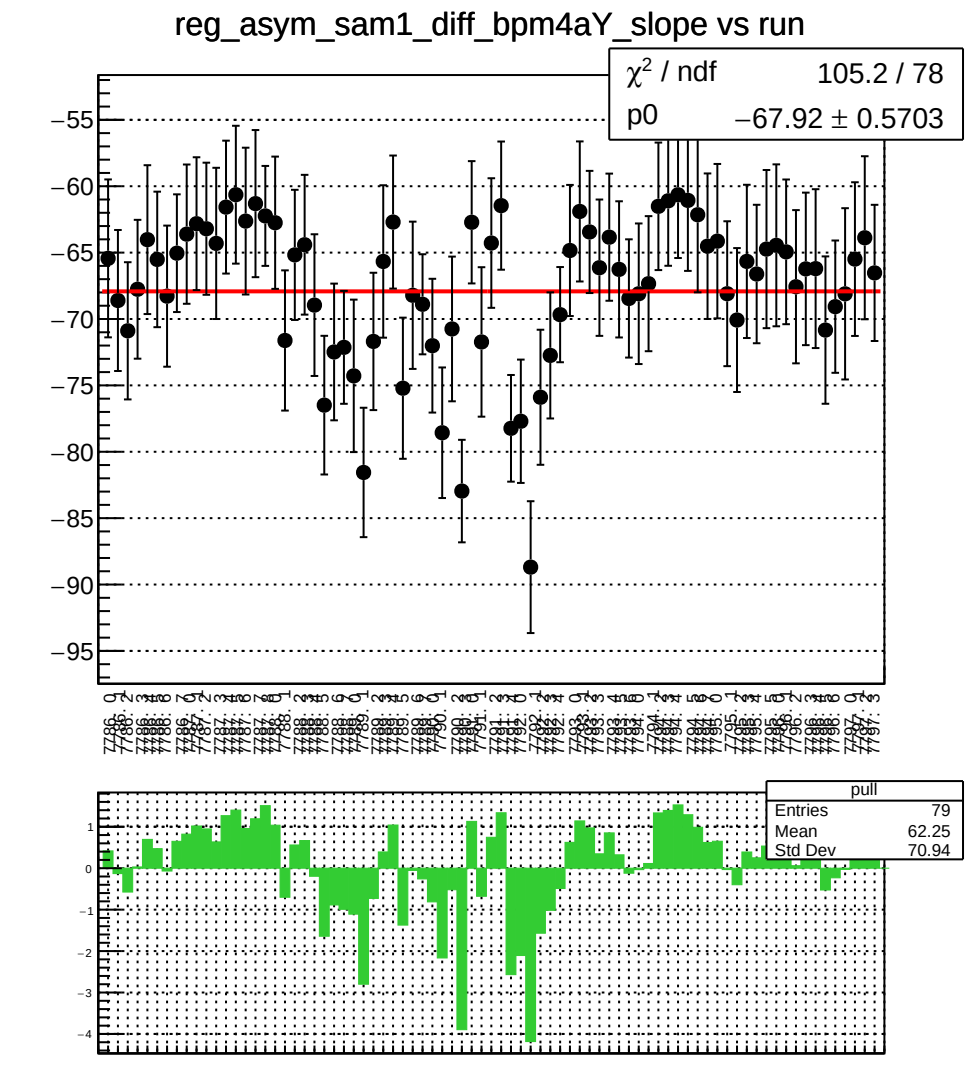

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.064e+04 / 78
p0 50.6 ± 0.04127
120
110
100
90
80
70
60
50
40

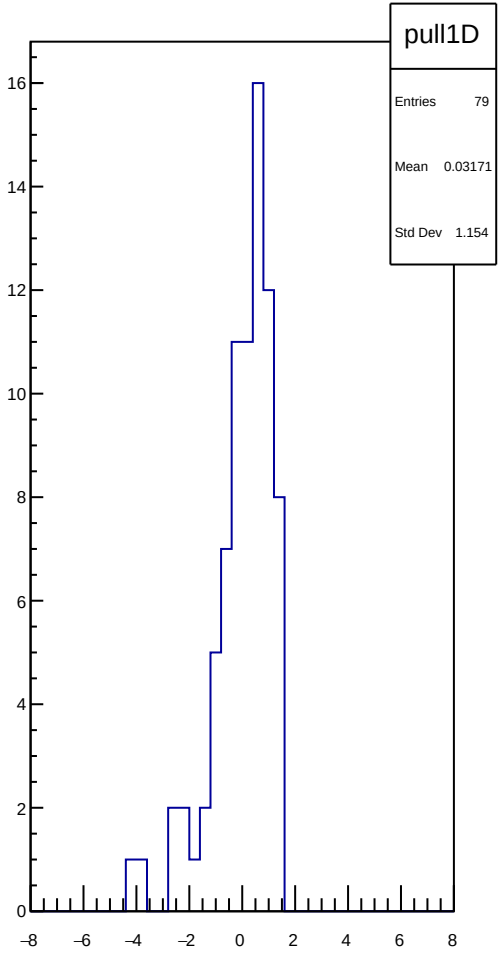

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.3 / 78
p0 −3.907e−14 ± 1.788e−13
pull
Entries 79
Mean −1131
Std Dev 0

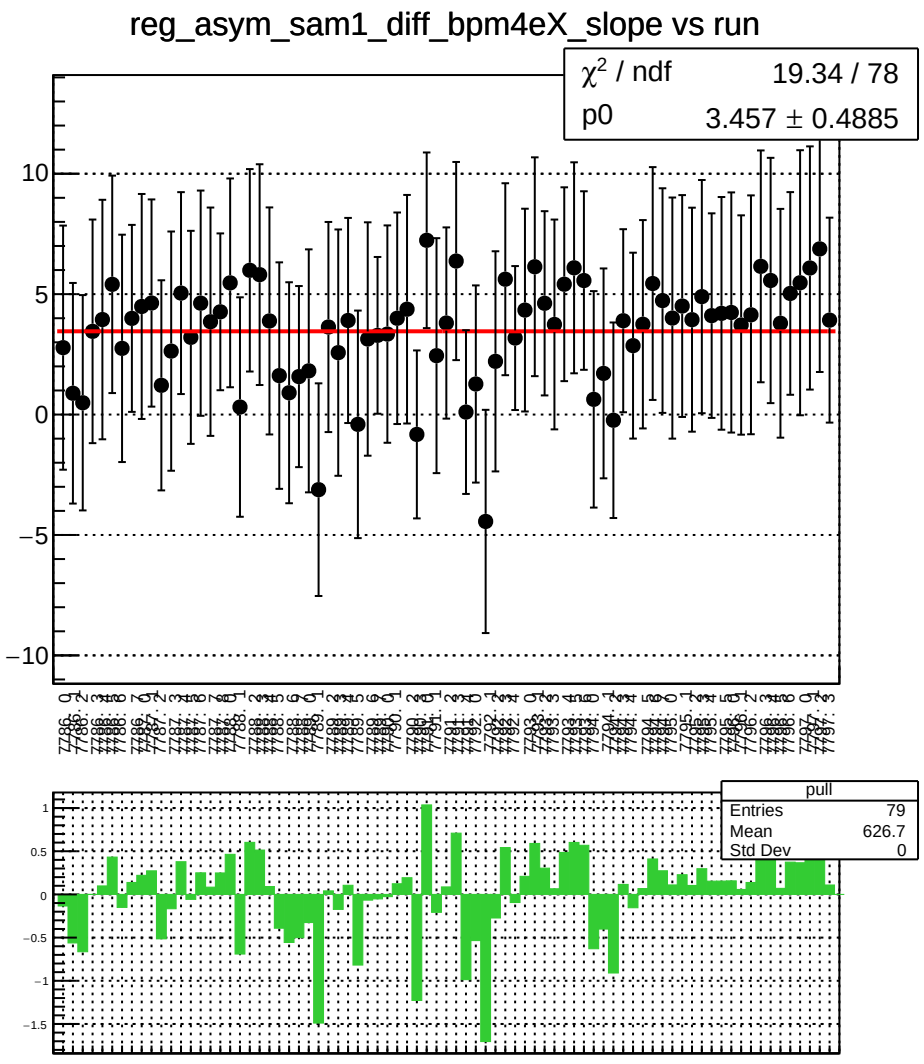

pull1D
Entries 79
Mean −0.002852
Std Dev 0.8442

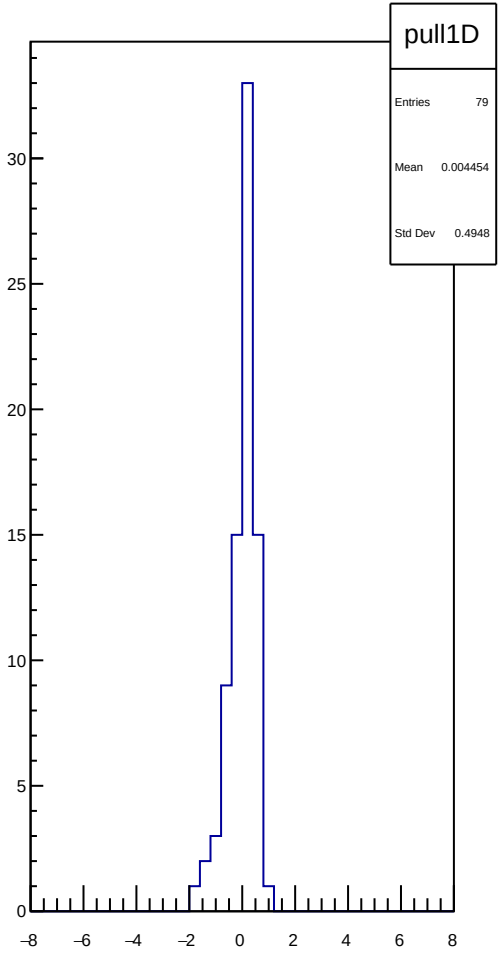

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.694e+05 / 78
p0 1.304e−10 ± 1.264e−13
0.6
0.5
0.4
0.3
0.2
0.1

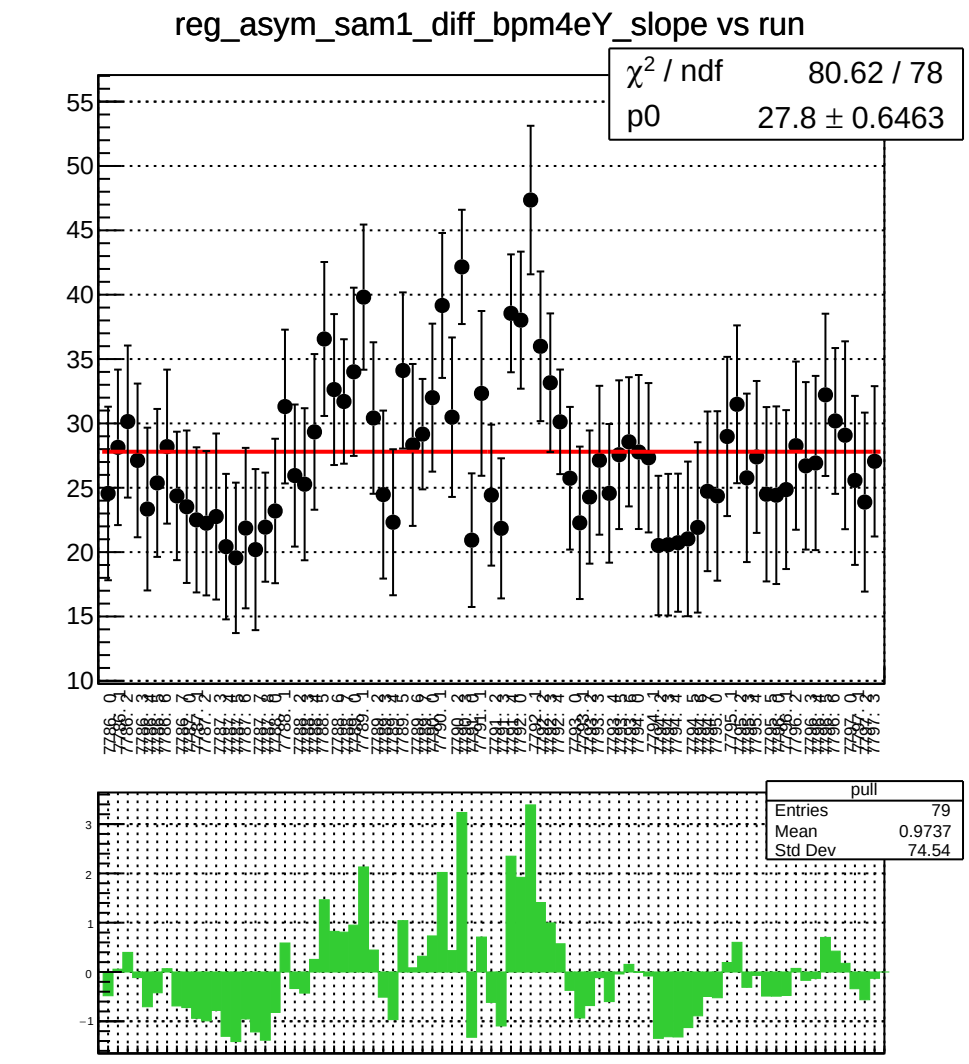

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 19.91 / 78
p0 −15.61 ± 0.5615
pull
Entries 79
Mean 466.9
Std Dev 0
pull1D
Entries 79
Mean −0.006604
Std Dev 0.502

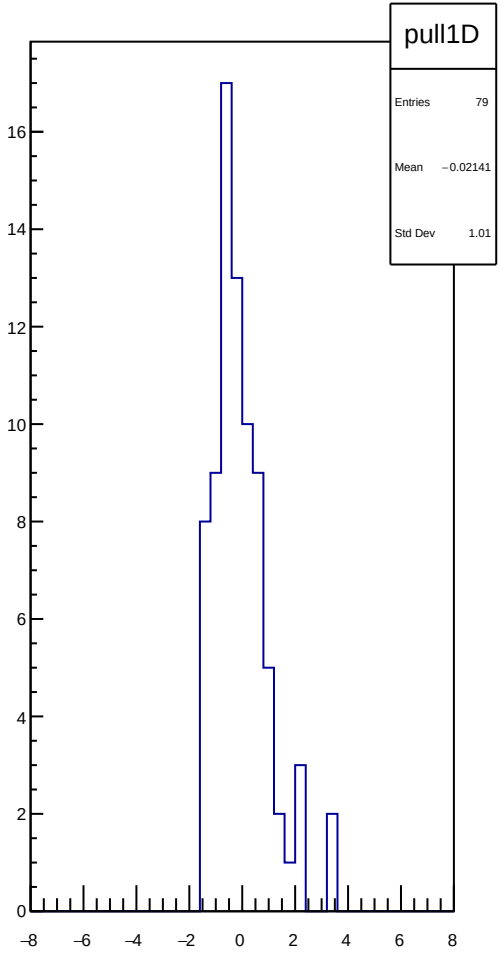

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 105.2 / 78
p0 −67.92 ± 0.5703
pull
Entries 79
Mean 62.25
Std Dev 70.94

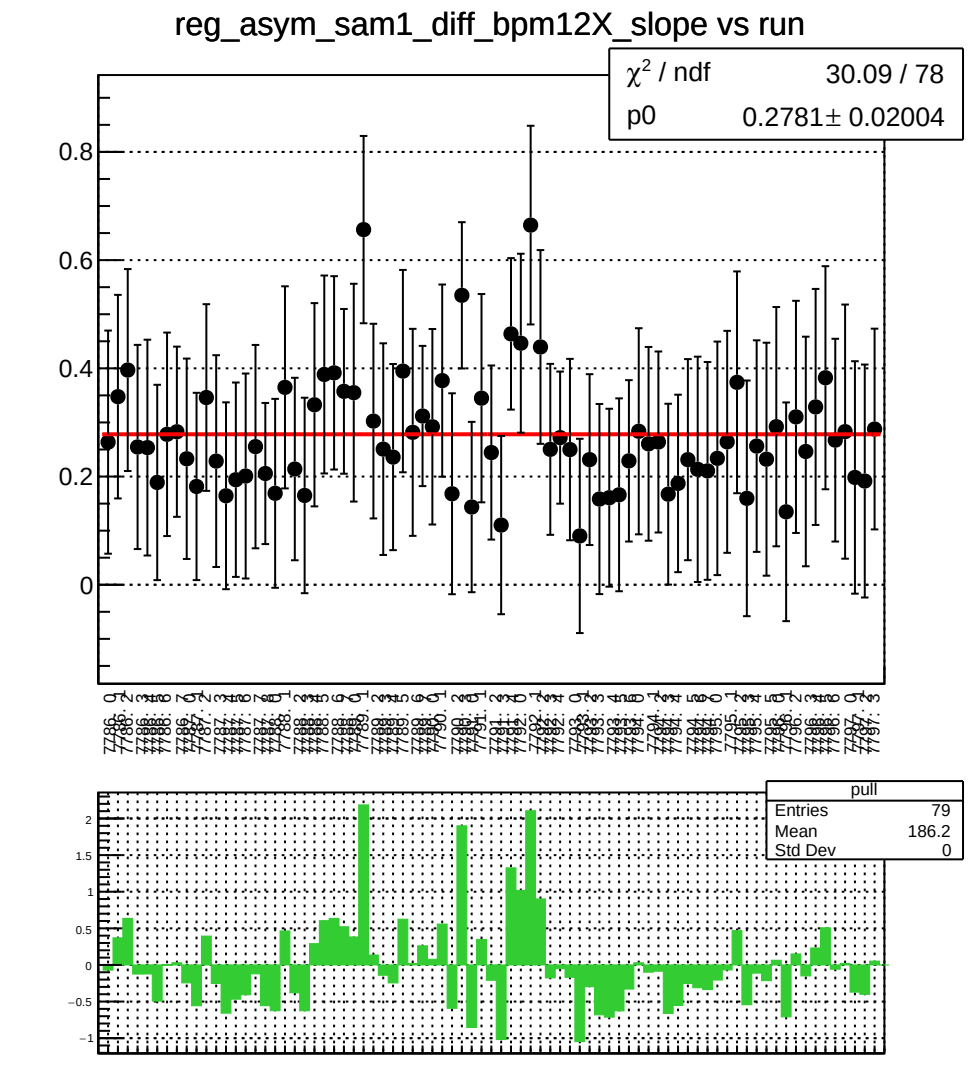

pull1D
Entries 79
Mean 0.03171
Std Dev 1.154

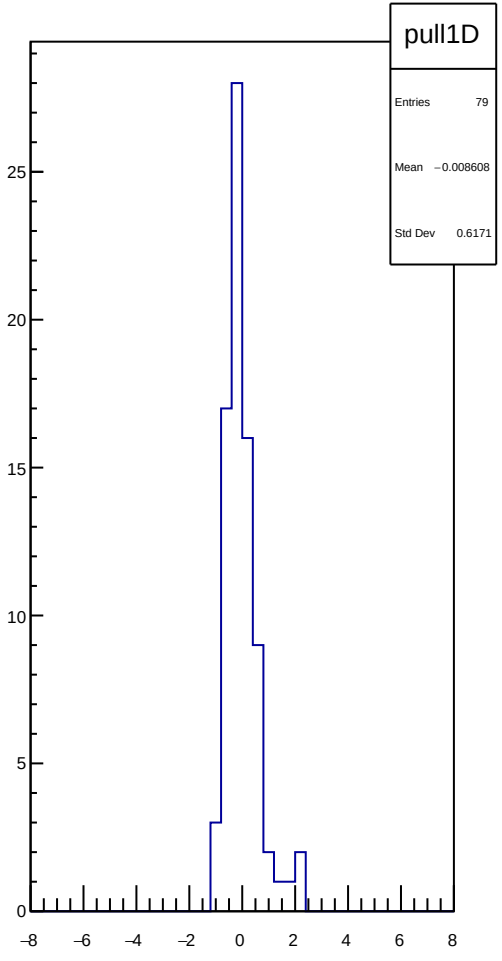

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 19.34 / 78
p0 3.457 ± 0.4885
pull
Entries 79
Mean 626.7
Std Dev 0

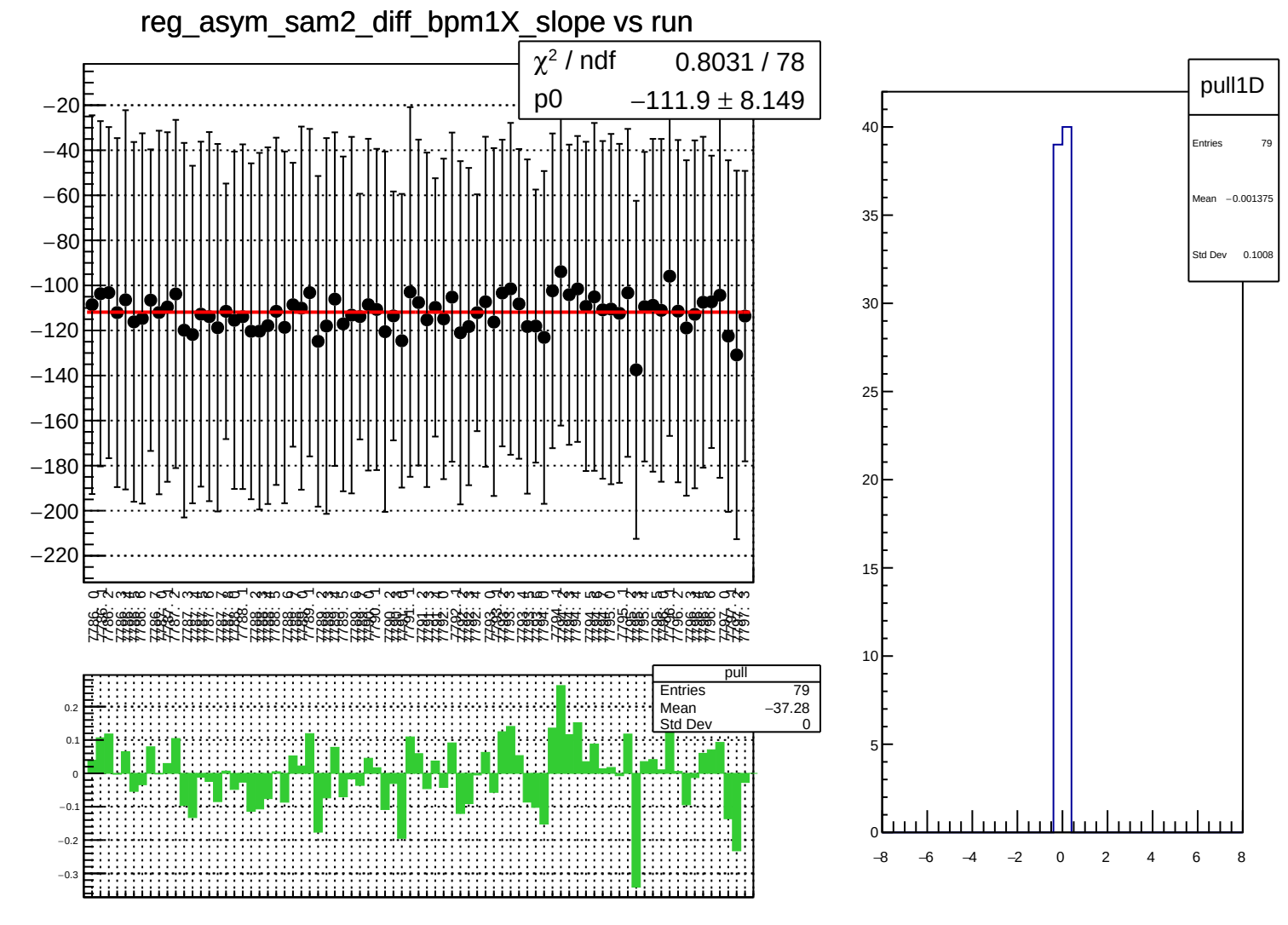

pull1D
Entries 79
Mean 0.004454
Std Dev 0.4948

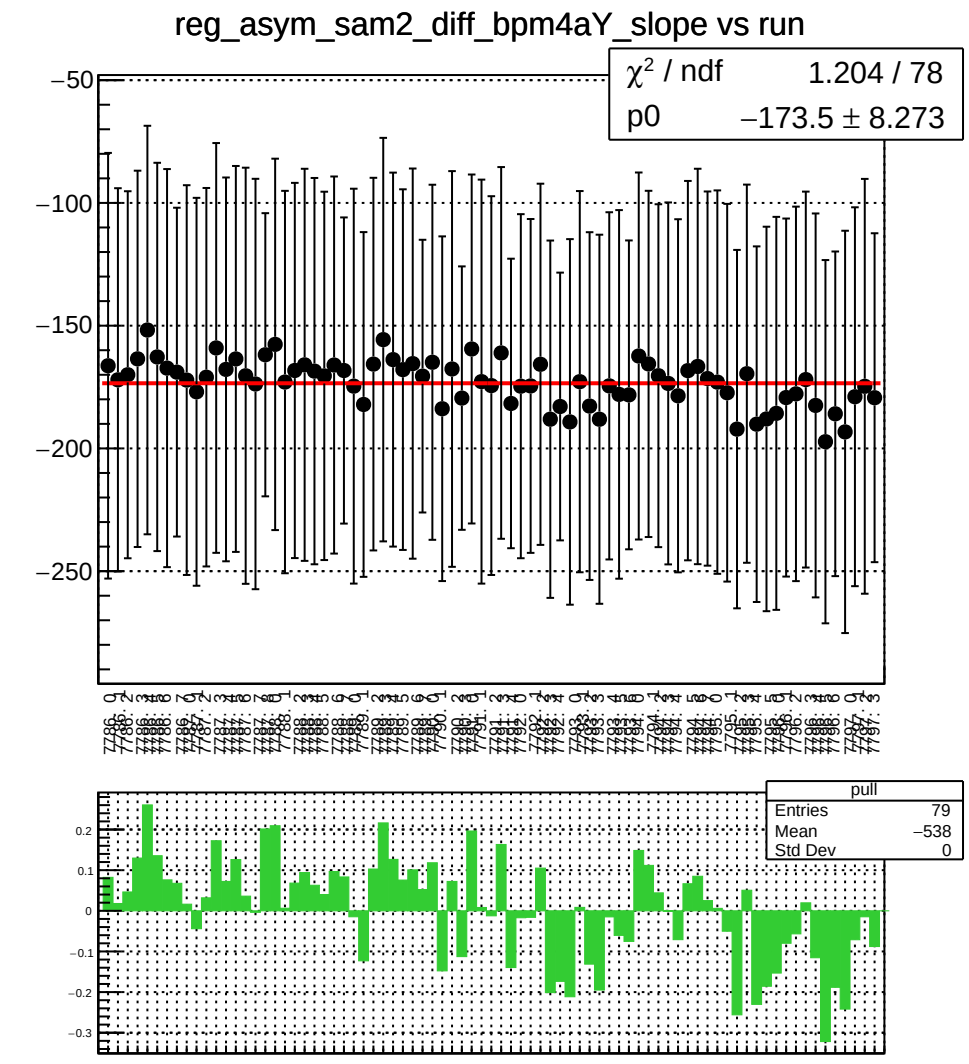

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 80.62 / 78
p0 27.8 ± 0.6463
pull
Entries 79
Mean 0.9737
Std Dev 74.54

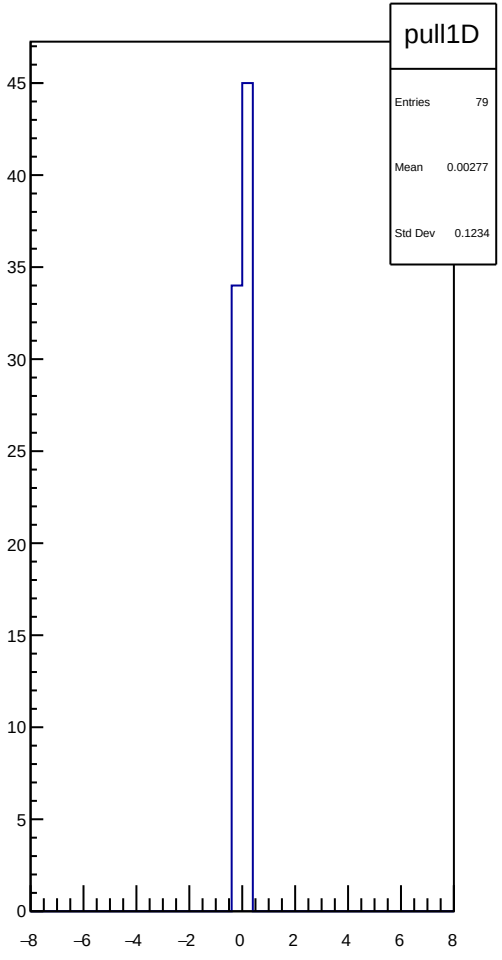

pull1D
Entries 79
Mean −0.02141
Std Dev 1.01

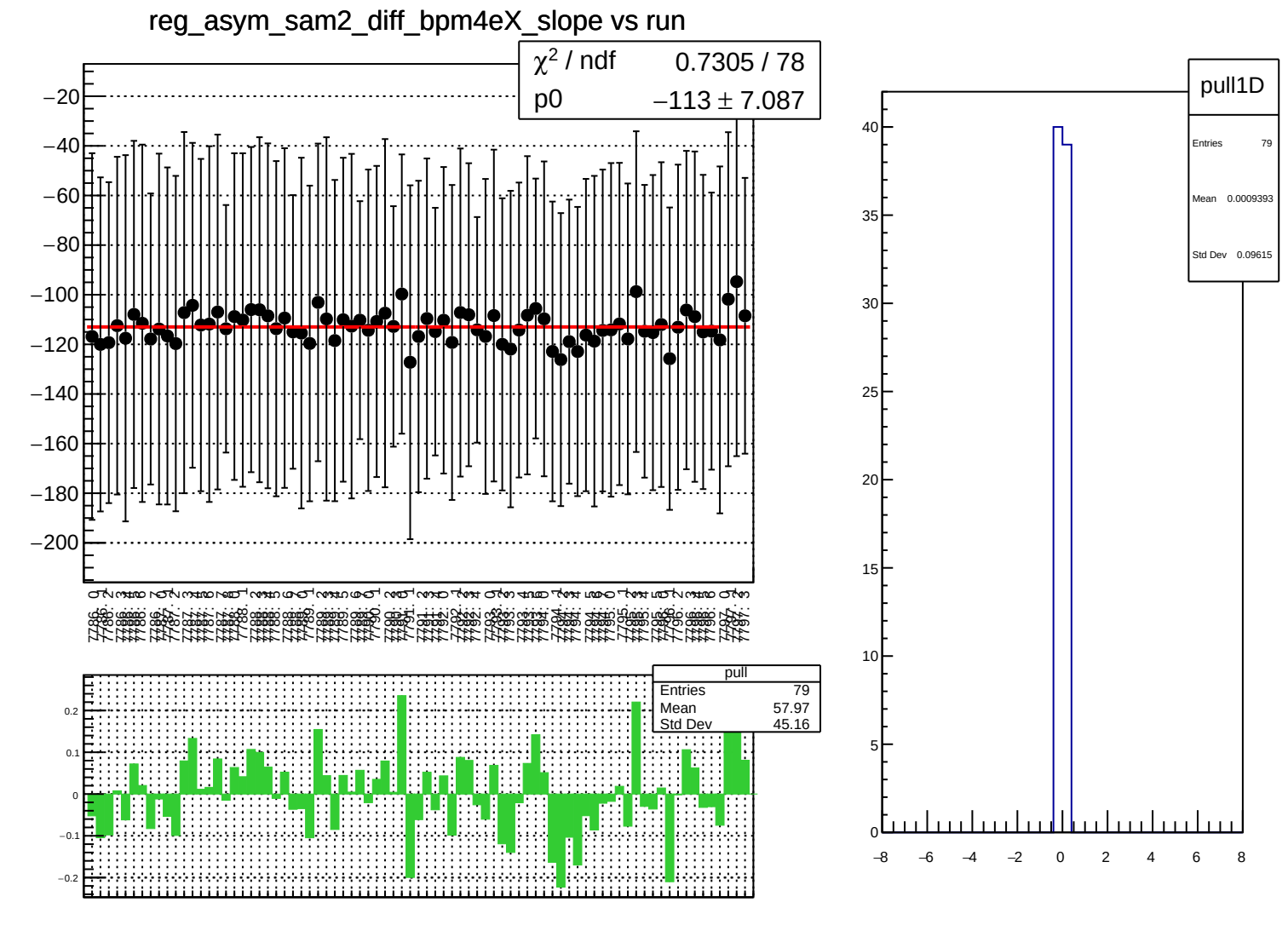

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 30.09 / 78
p0 0.2781± 0.02004
pull
Entries 79
Mean 186.2
Std Dev 0

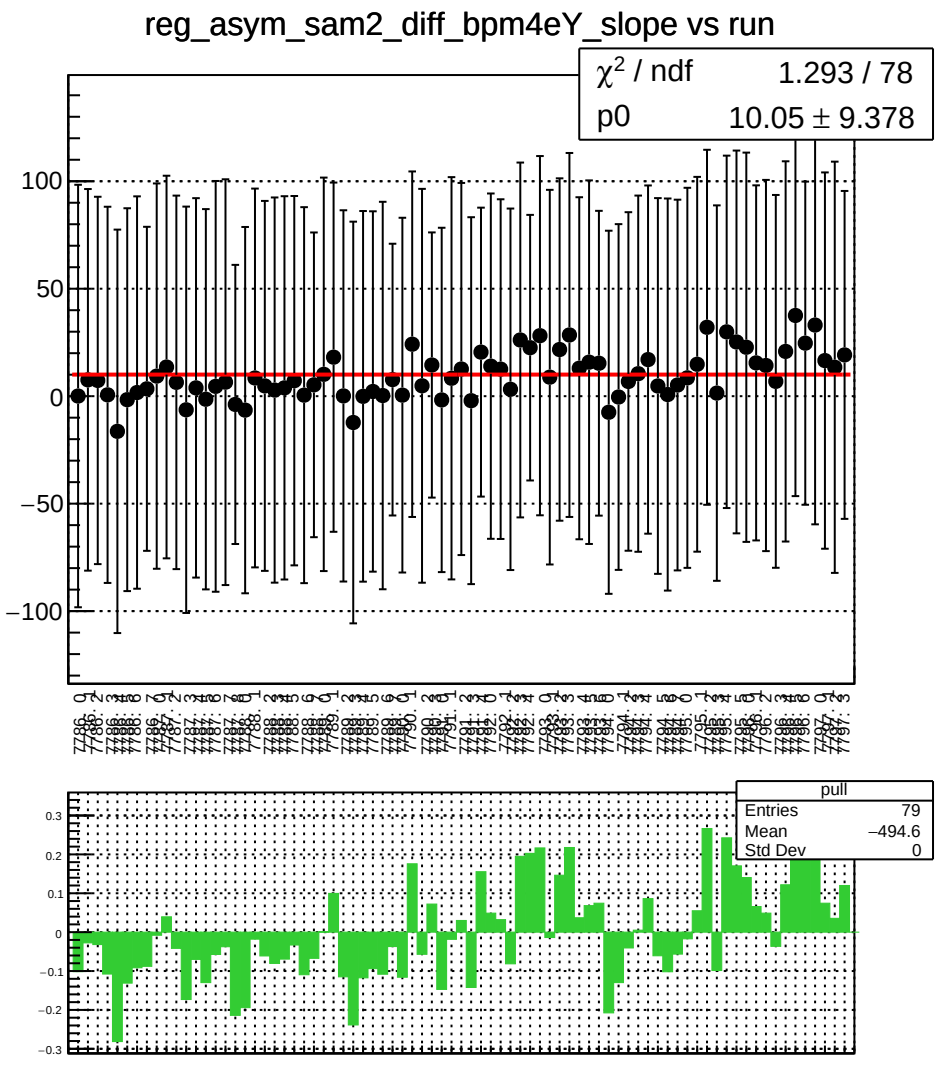

pull1D
Entries 79
Mean −0.008608
Std Dev 0.6171

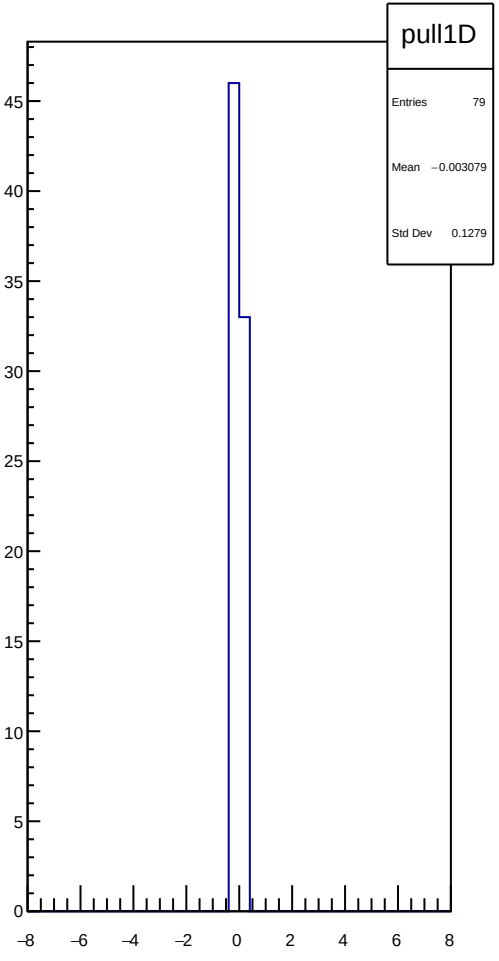

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.8031 / 78
p0 −111.9 ± 8.149
pull
Entries 79
Mean −37.28
Std Dev 0
pull1D
Entries 79
Mean −0.001375
Std Dev 0.1008

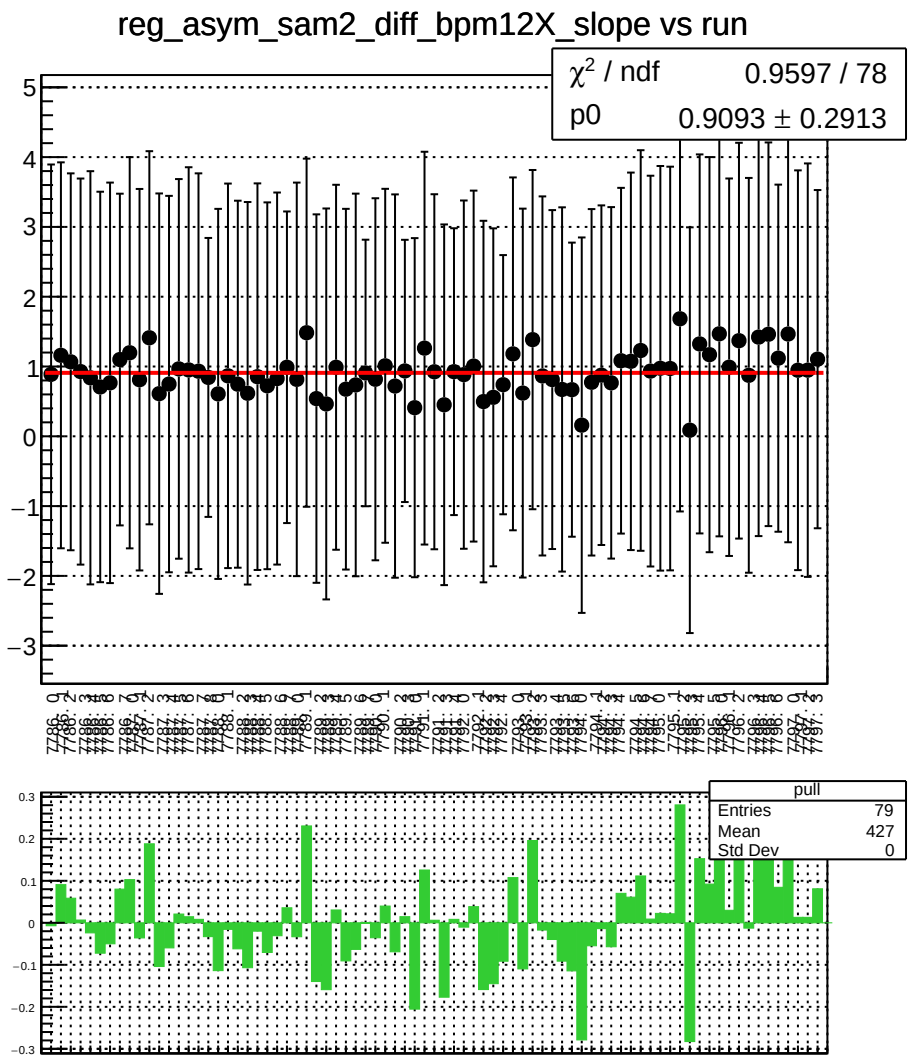

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.204 / 78
p0 −173.5 ± 8.273
pull
Entries 79
Mean −538
Std Dev 0

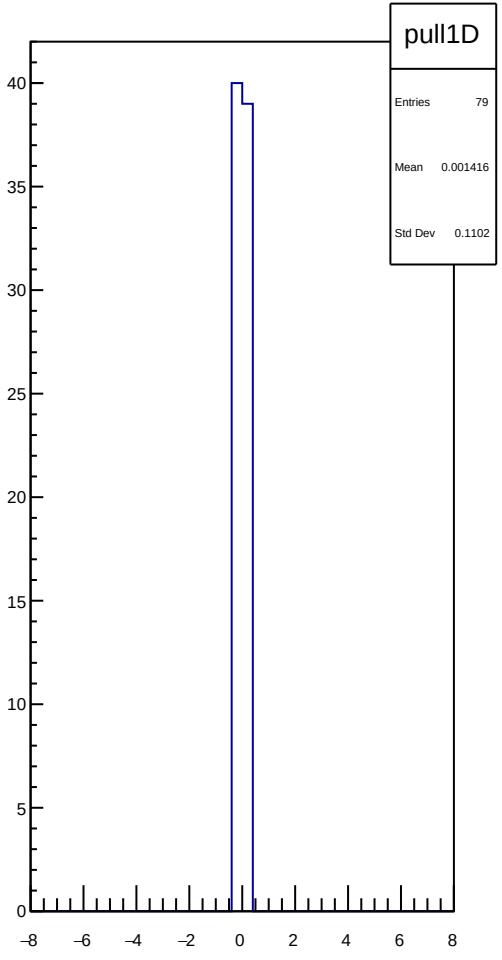

pull1D
Entries 79
Mean 0.00277
Std Dev 0.1234

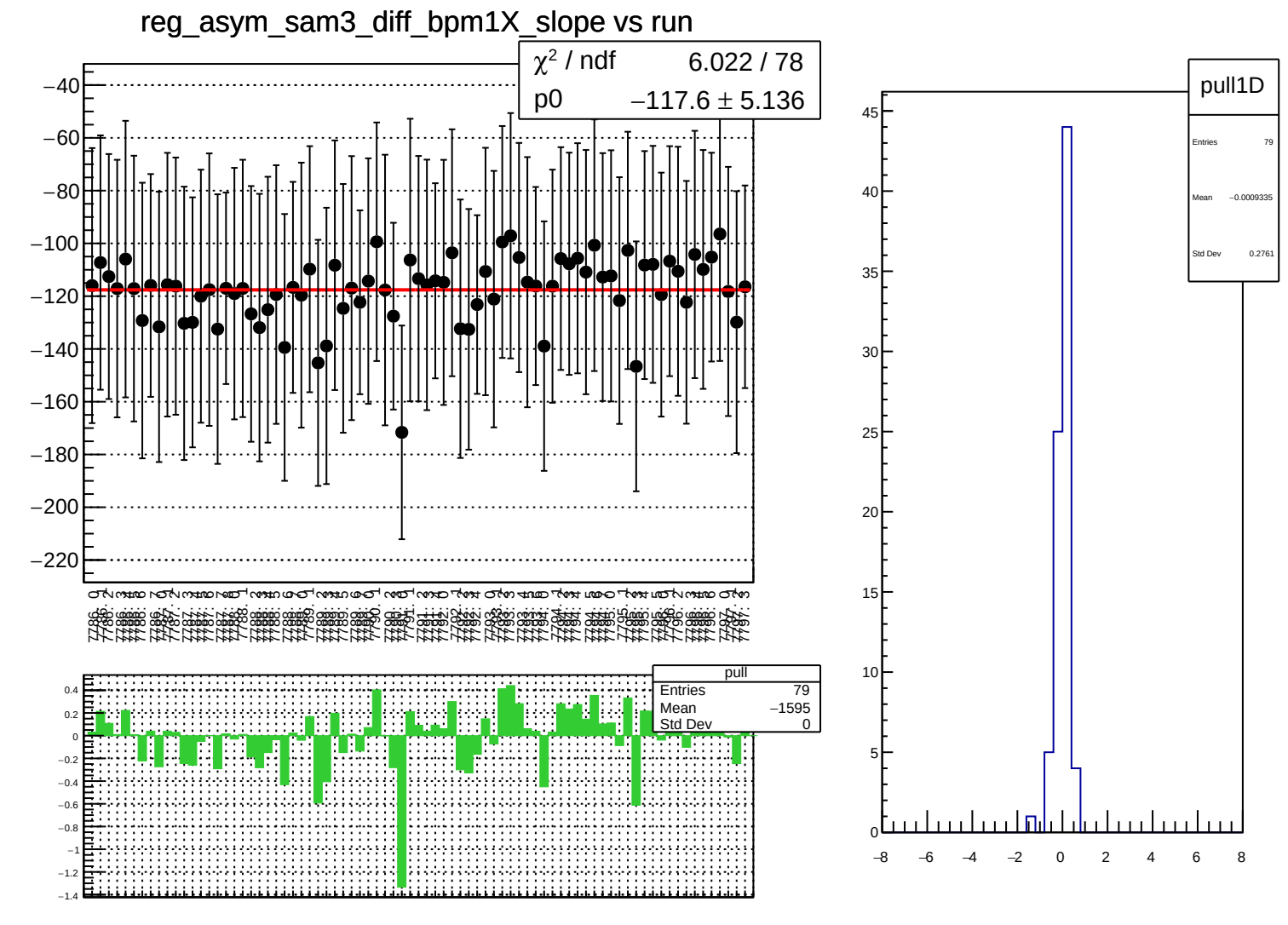

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.7305 / 78
p0 −113 ± 7.087
pull
Entries 79
Mean 57.97
Std Dev 45.16
pull1D
Entries 79
Mean 0.0009393
Std Dev 0.09615

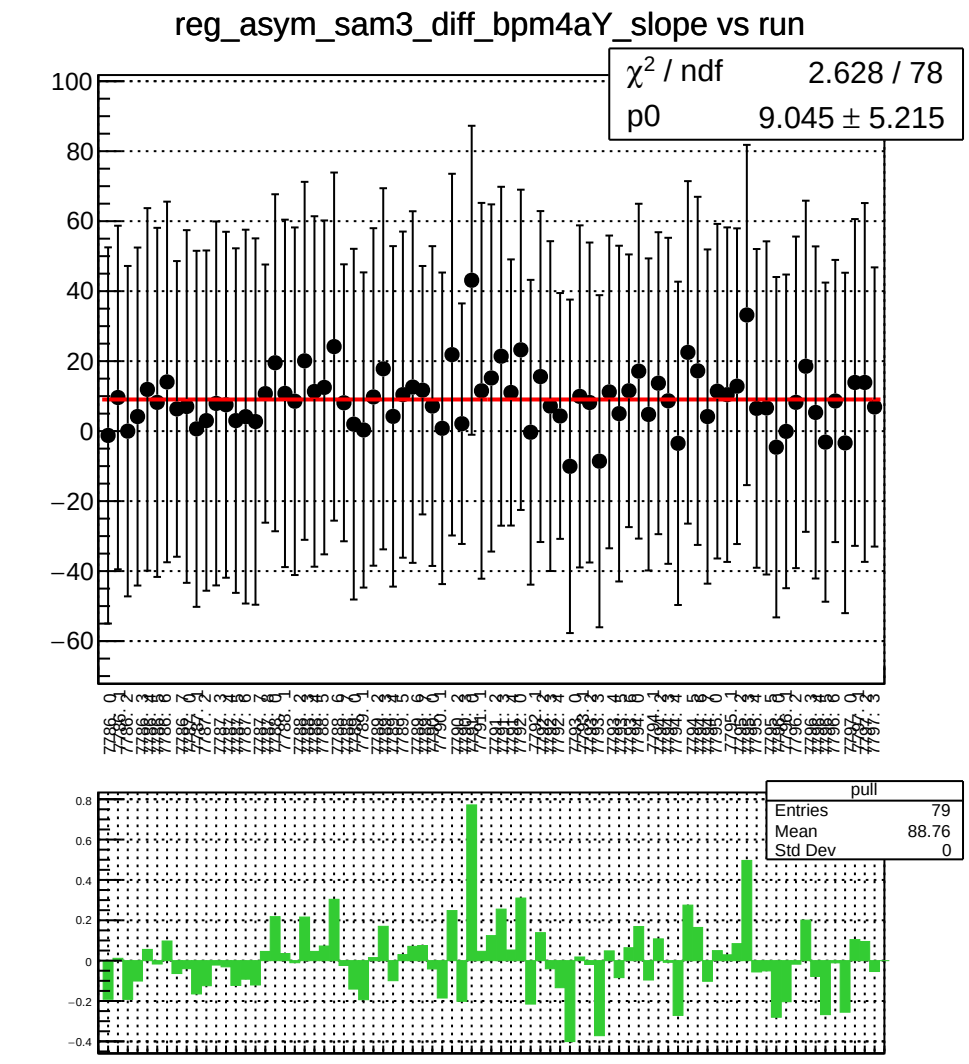

reg_asym_sam2_diff_bpm4eY_slope vs run
χ^2 / ndf 1.293 / 78
p0 10.05 ± 9.378
pull
Entries 79
Mean −494.6
Std Dev 0

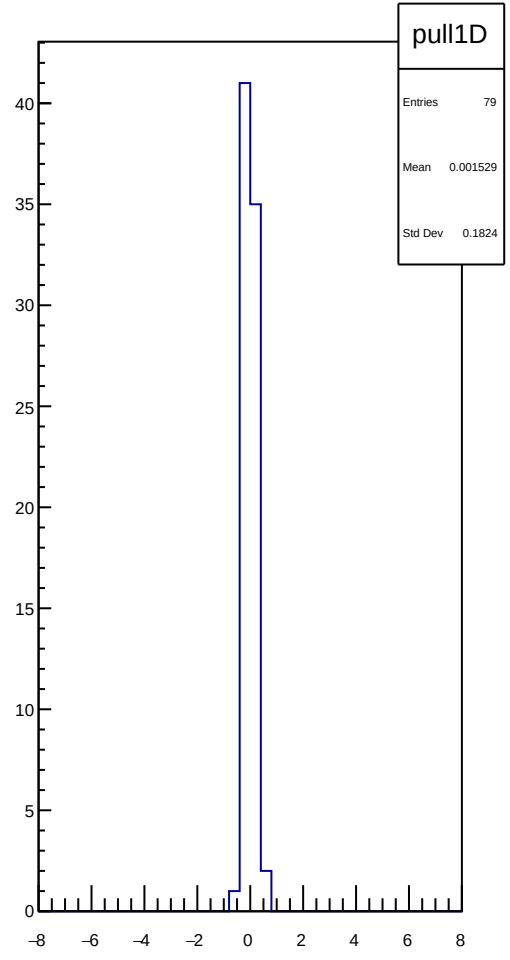

pull1D
Entries 79
Mean −0.003079
Std Dev 0.1279

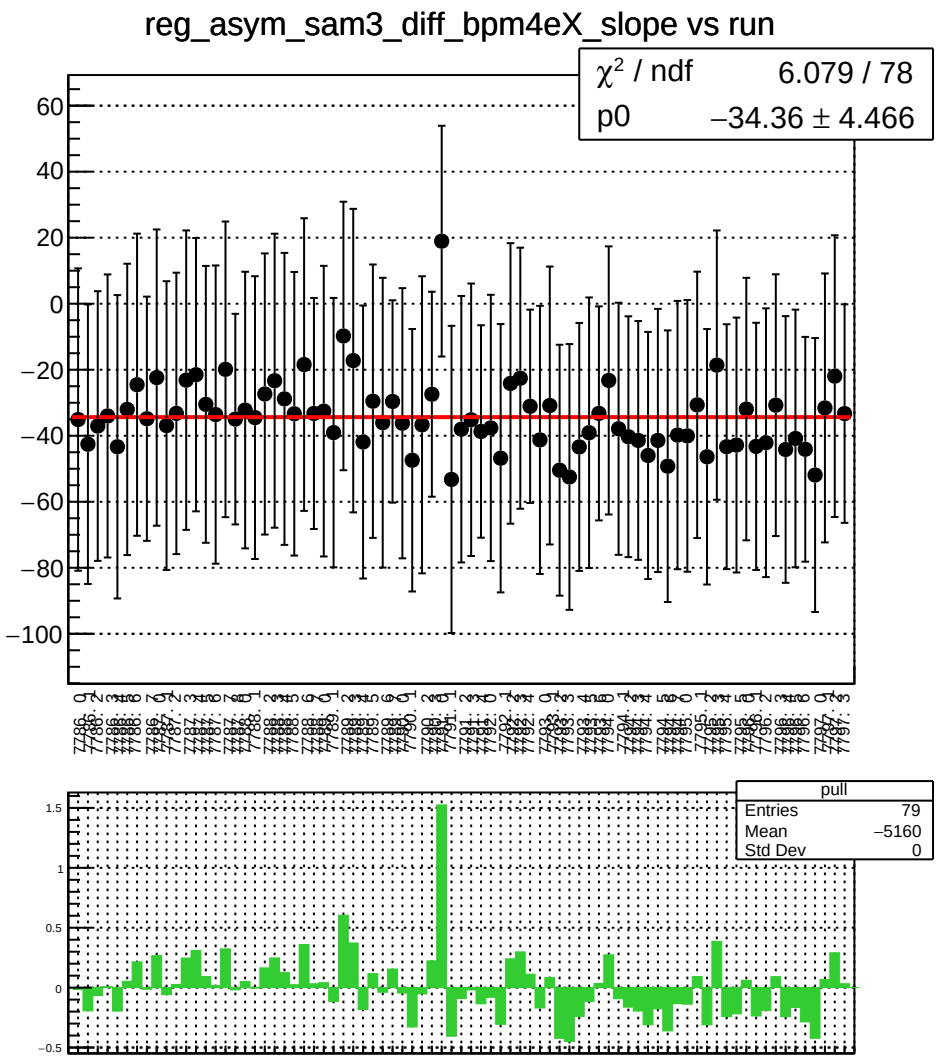

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.9597 / 78
p0 0.9093 ± 0.2913
pull
Entries 79
Mean 427
Std Dev 0

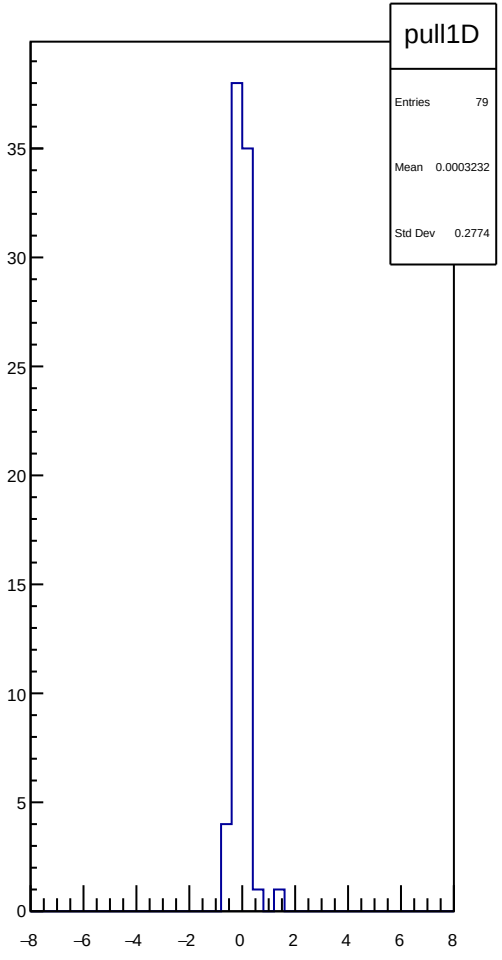

pull1D
Entries 79
Mean 0.001416
Std Dev 0.1102

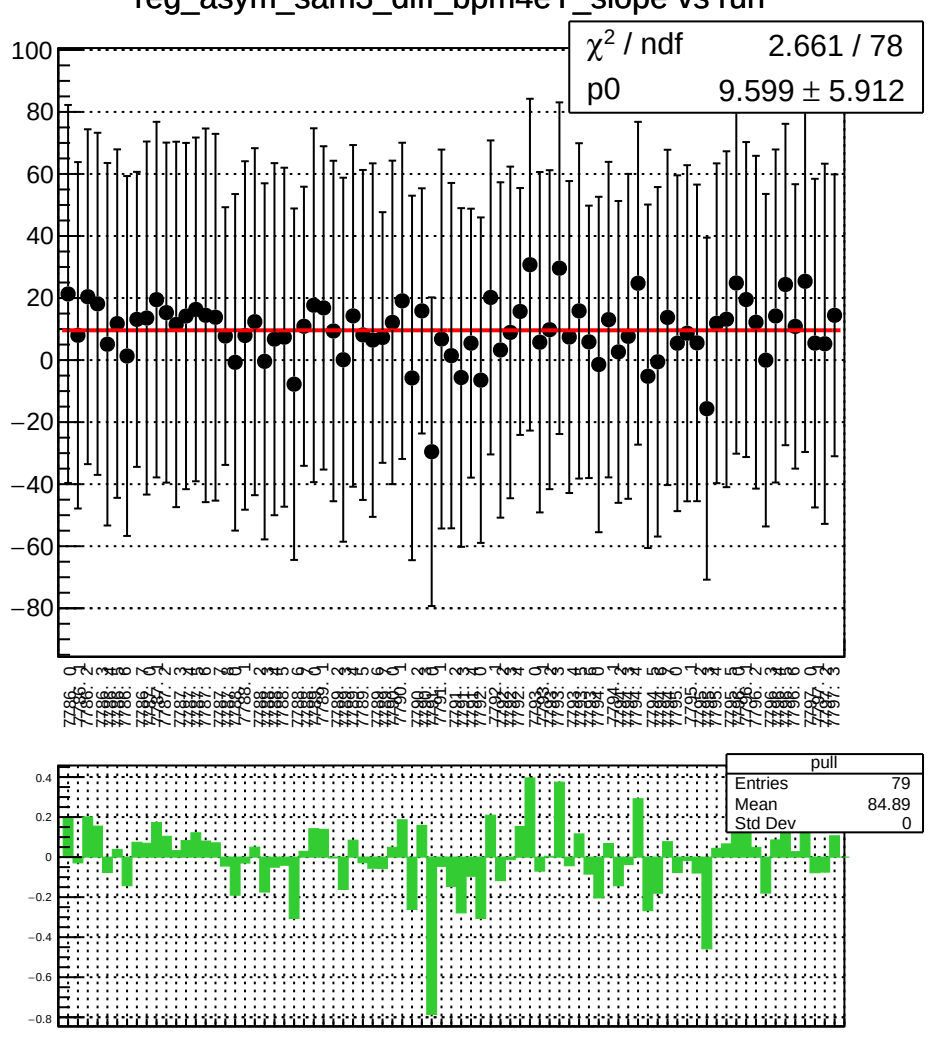

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 6.022 / 78
p0 −117.6 ± 5.136
pull
Entries 79
Mean −1595
Std Dev 0
pull1D
Entries 79
Mean −0.0009335
Std Dev 0.2761

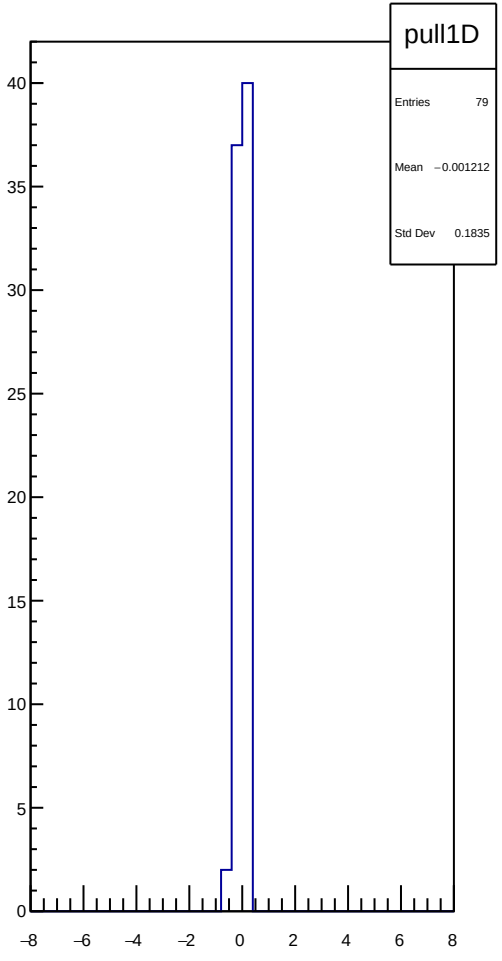

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.628 / 78
p0 9.045 ± 5.215
pull
Entries 79
Mean 88.76
Std Dev 0

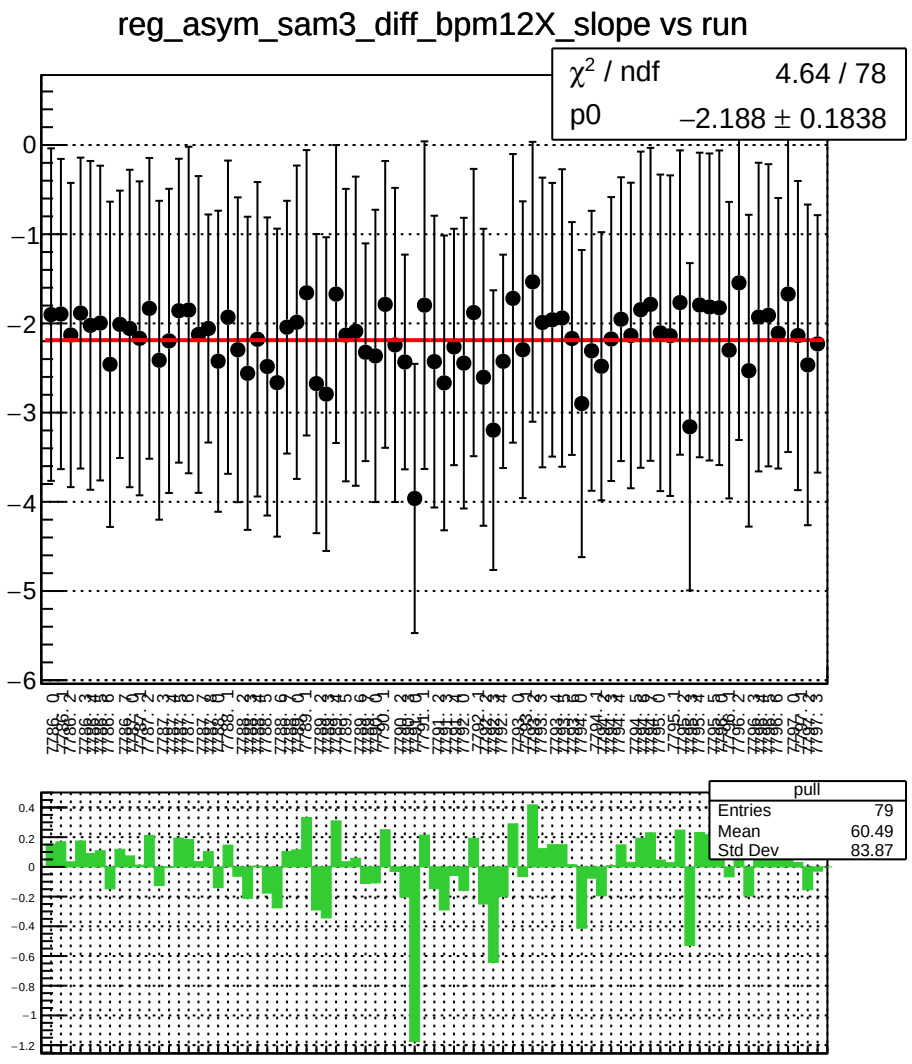

pull1D
Entries 79
Mean 0.001529
Std Dev 0.1824

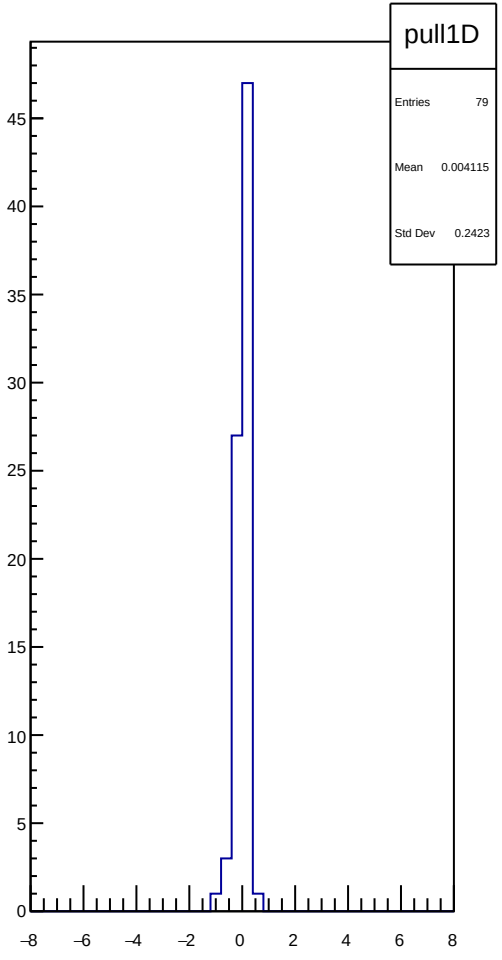

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 6.079 / 78
p0 −34.36 ± 4.466
pull
Entries 79
Mean −5160
Std Dev 0

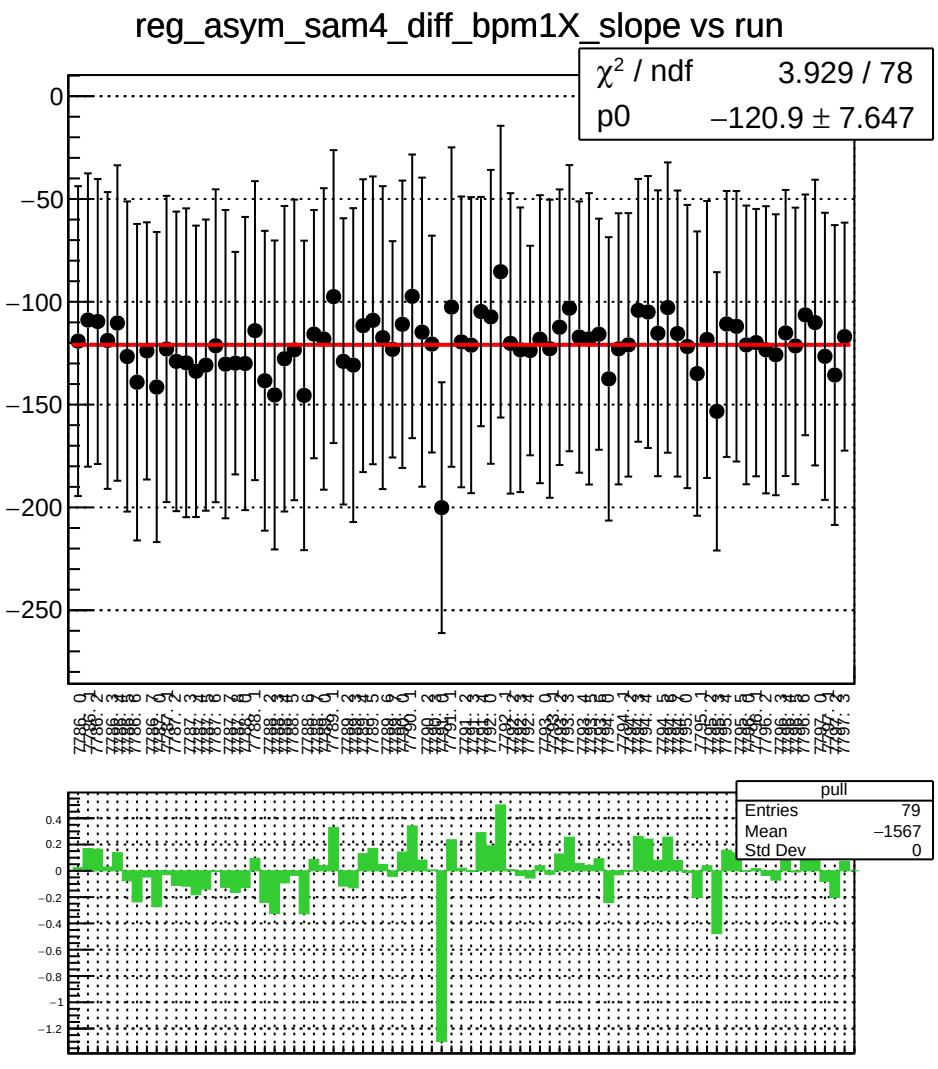

pull1D
Entries 79
Mean 0.0003232
Std Dev 0.2774

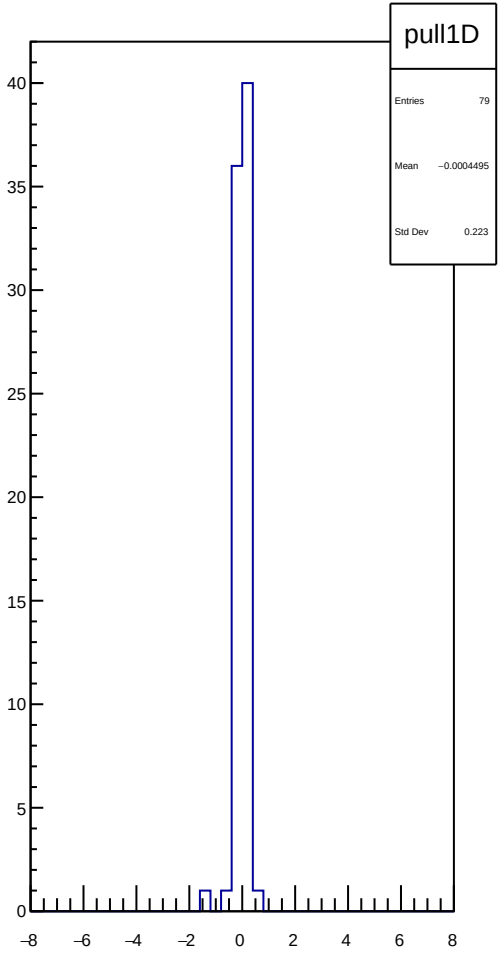

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.661 / 78
p0 9.599 ± 5.912
pull
Entries 79
Mean 84.89
Std Dev 0

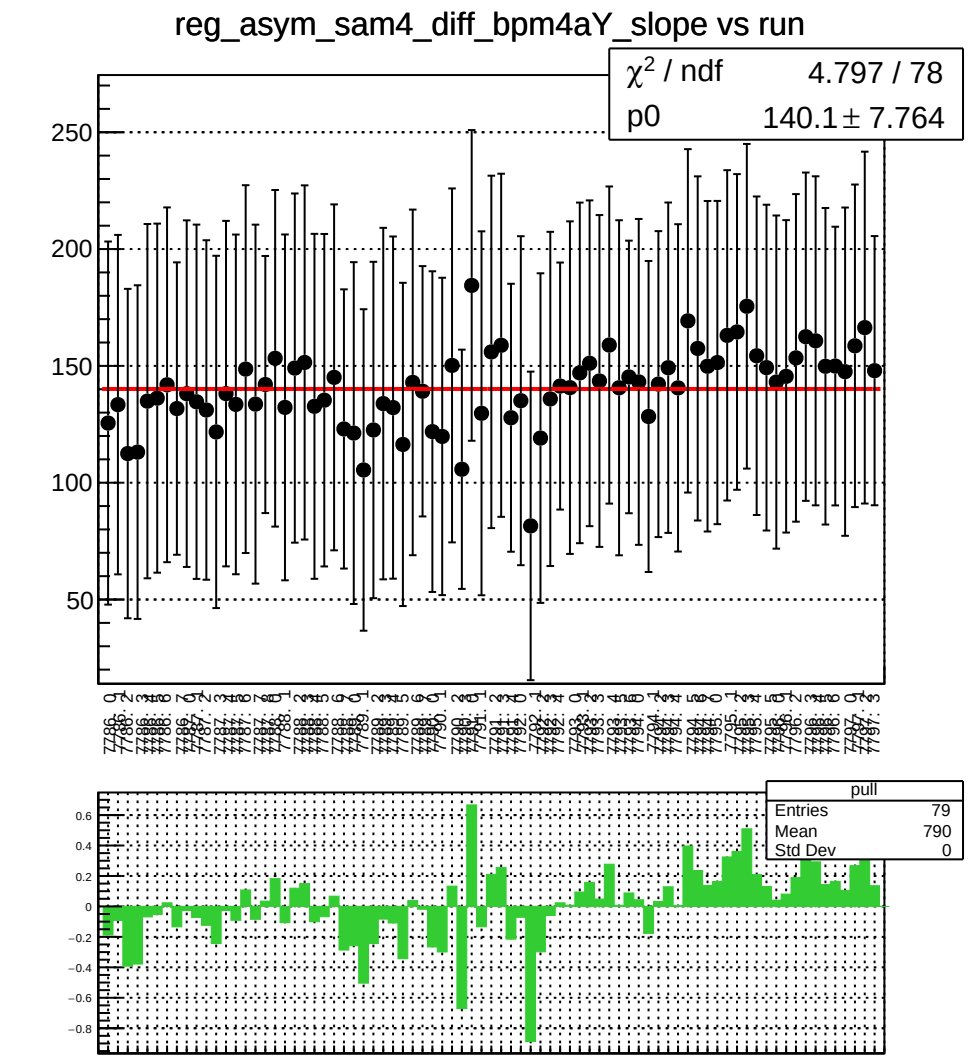

pull1D
Entries 79
Mean −0.001212
Std Dev 0.1835

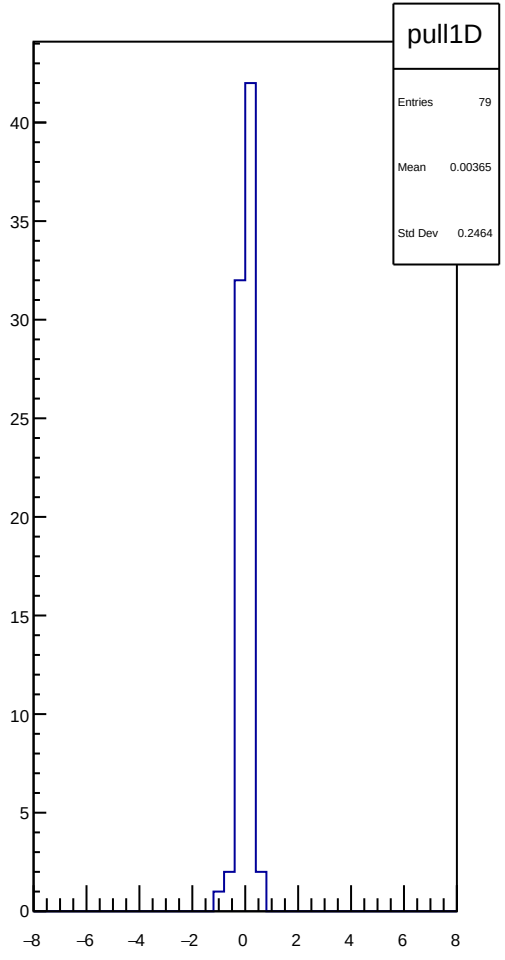

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.64 / 78
p0 −2.188 ± 0.1838
pull
Entries 79
Mean 60.49
Std Dev 83.87

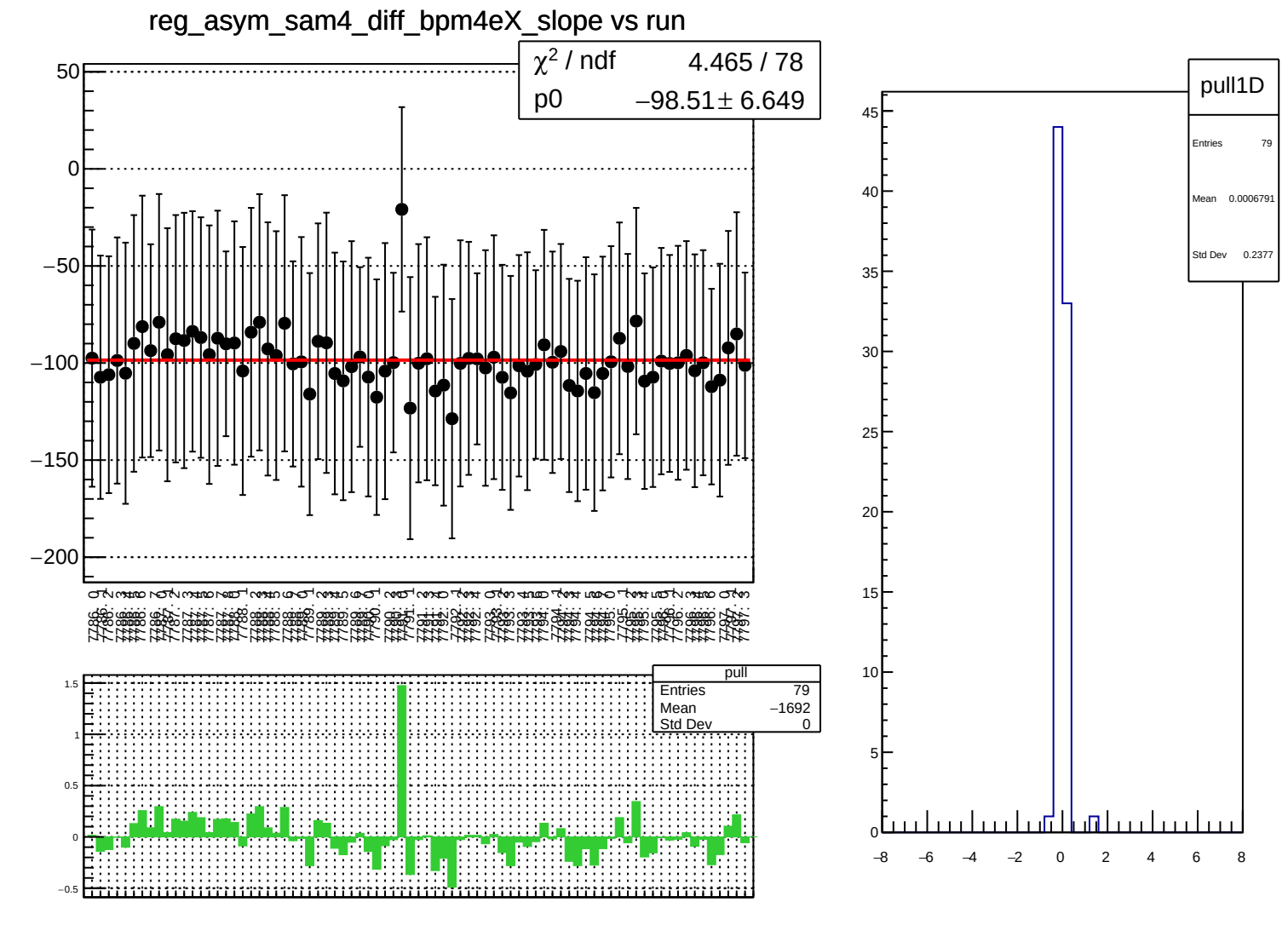

pull1D
Entries 79
Mean 0.004115
Std Dev 0.2423

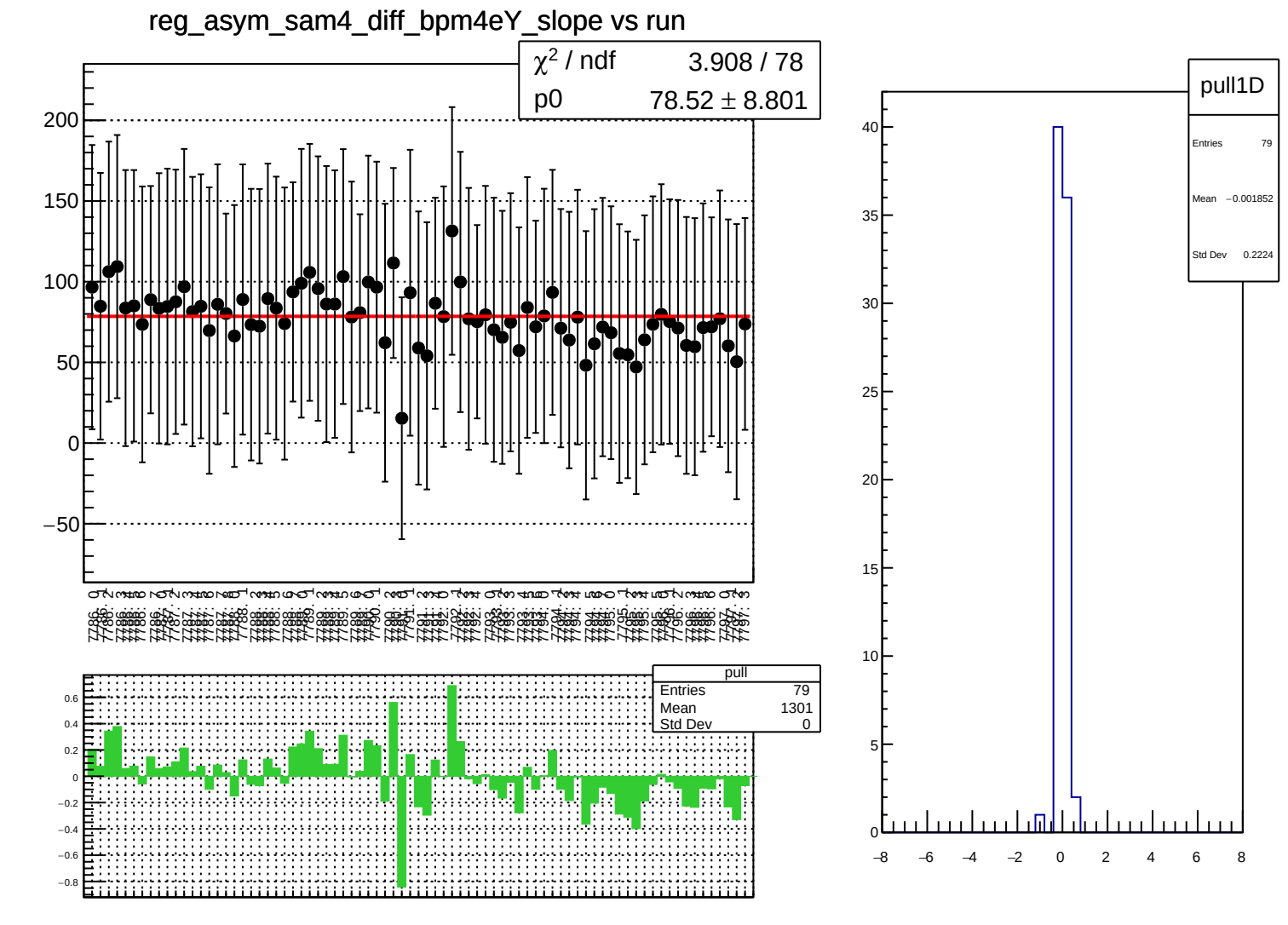

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 3.929 / 78
p0 −120.9 ± 7.647
pull
Entries 79
Mean −1567
Std Dev 0

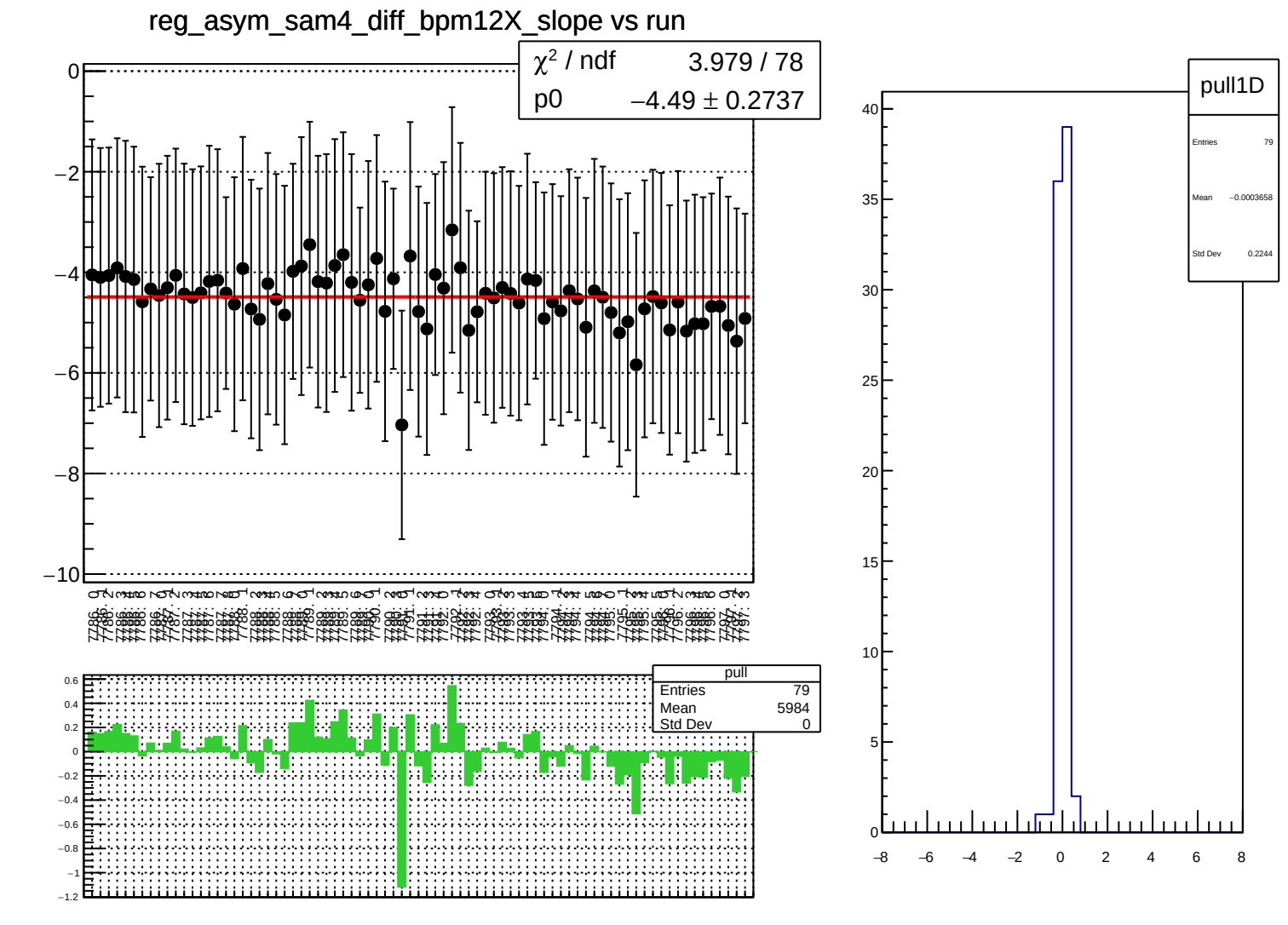

pull1D
Entries 79
Mean −0.0004495
Std Dev 0.223

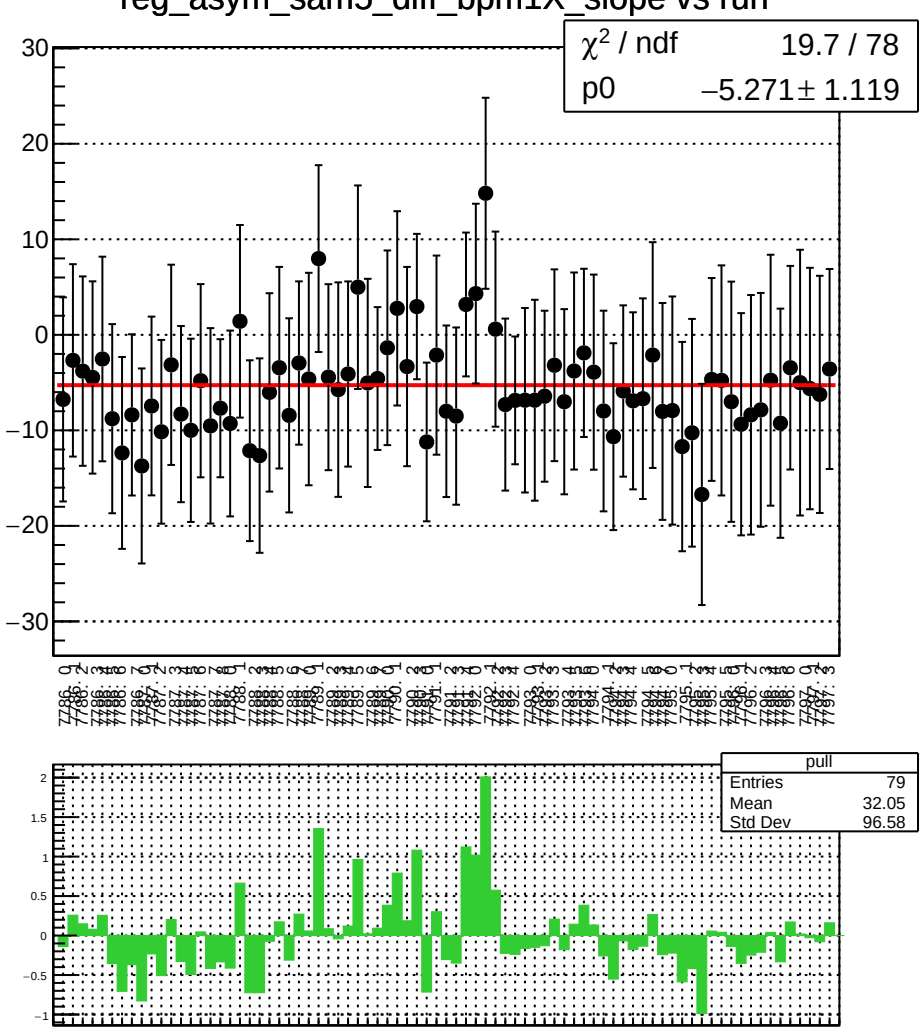

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 4.797 / 78
p0 140.1 ± 7.764
250
200
150
100
50
pull
Entries 79
Mean 790
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

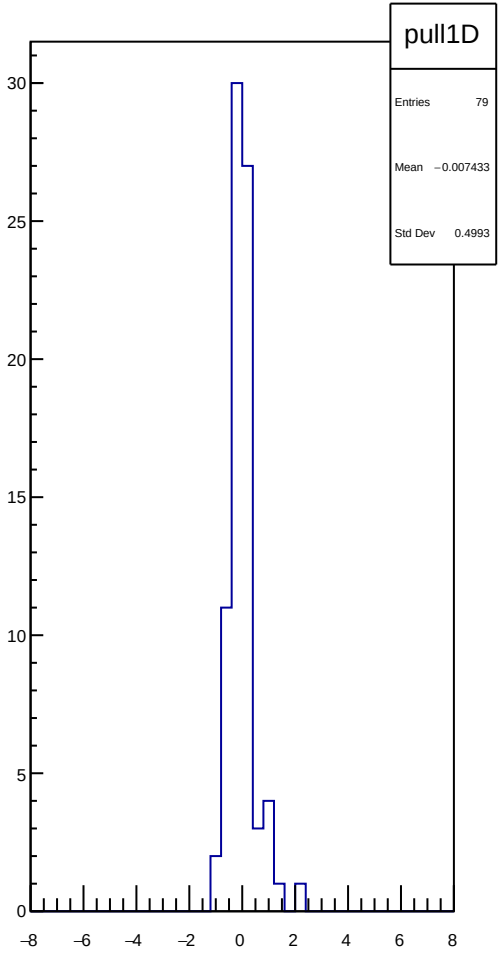

pull1D
Entries 79
Mean 0.00365
Std Dev 0.2464
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

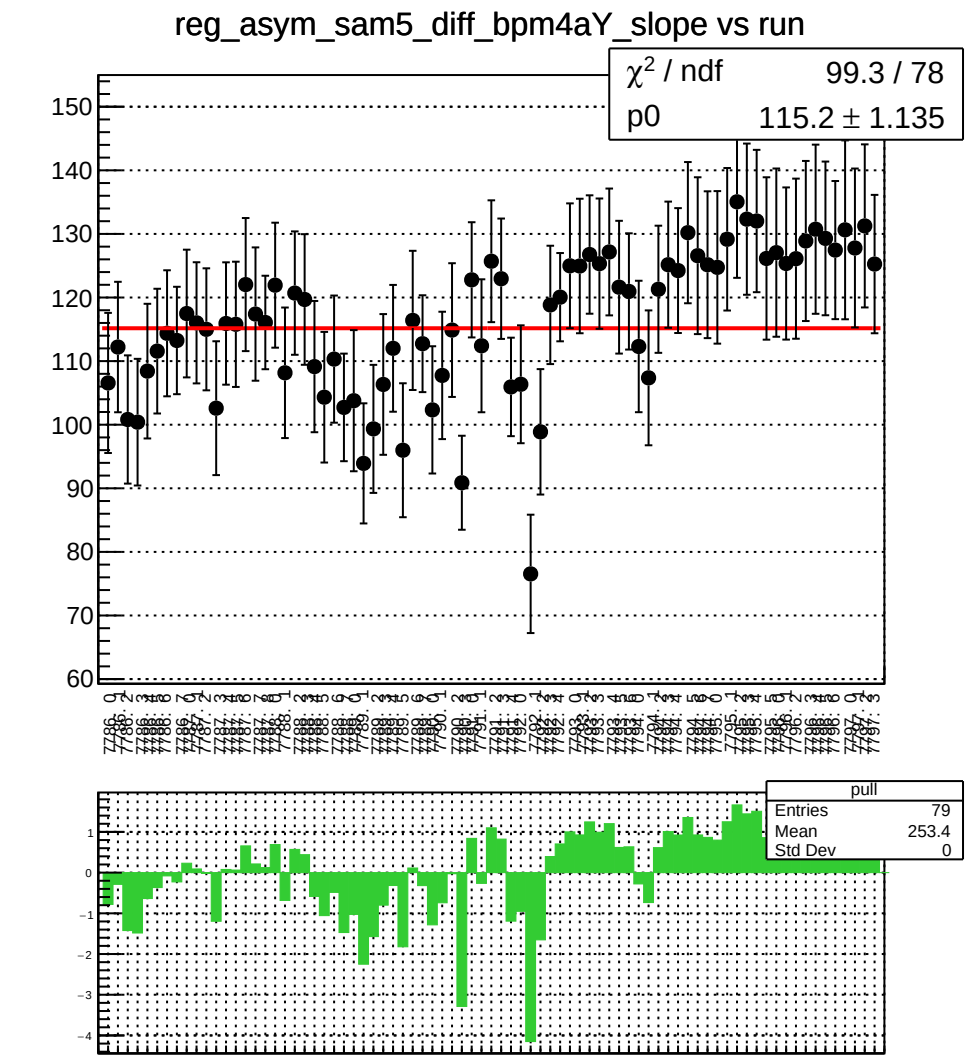

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 4.465 / 78
p0 −98.51 ± 6.649
pull
Entries 79
Mean −1692
Std Dev 0
pull1D
Entries 79
Mean 0.0006791
Std Dev 0.2377

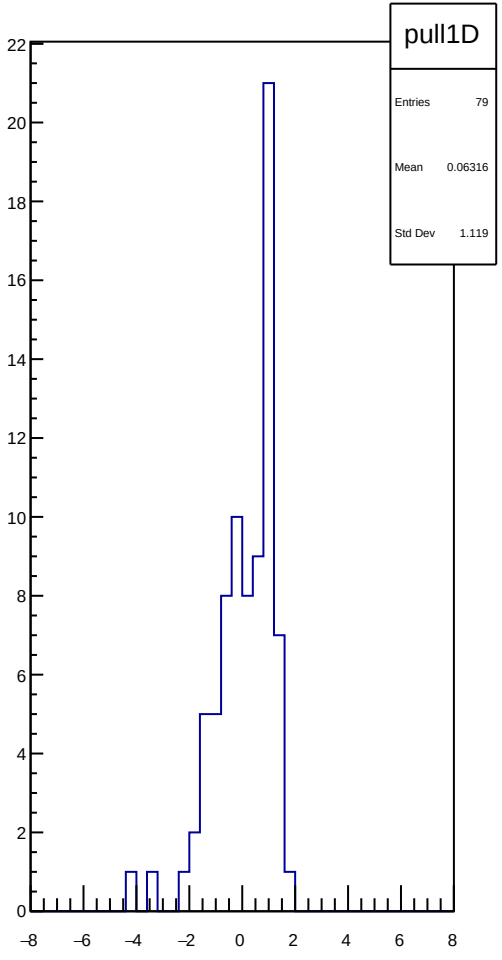

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 3.908 / 78
p0 78.52 ± 8.801
200
150
100
50
0
−50
pull
Entries 79
Mean 1301
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 79
Mean −0.001852
Std Dev 0.2224
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

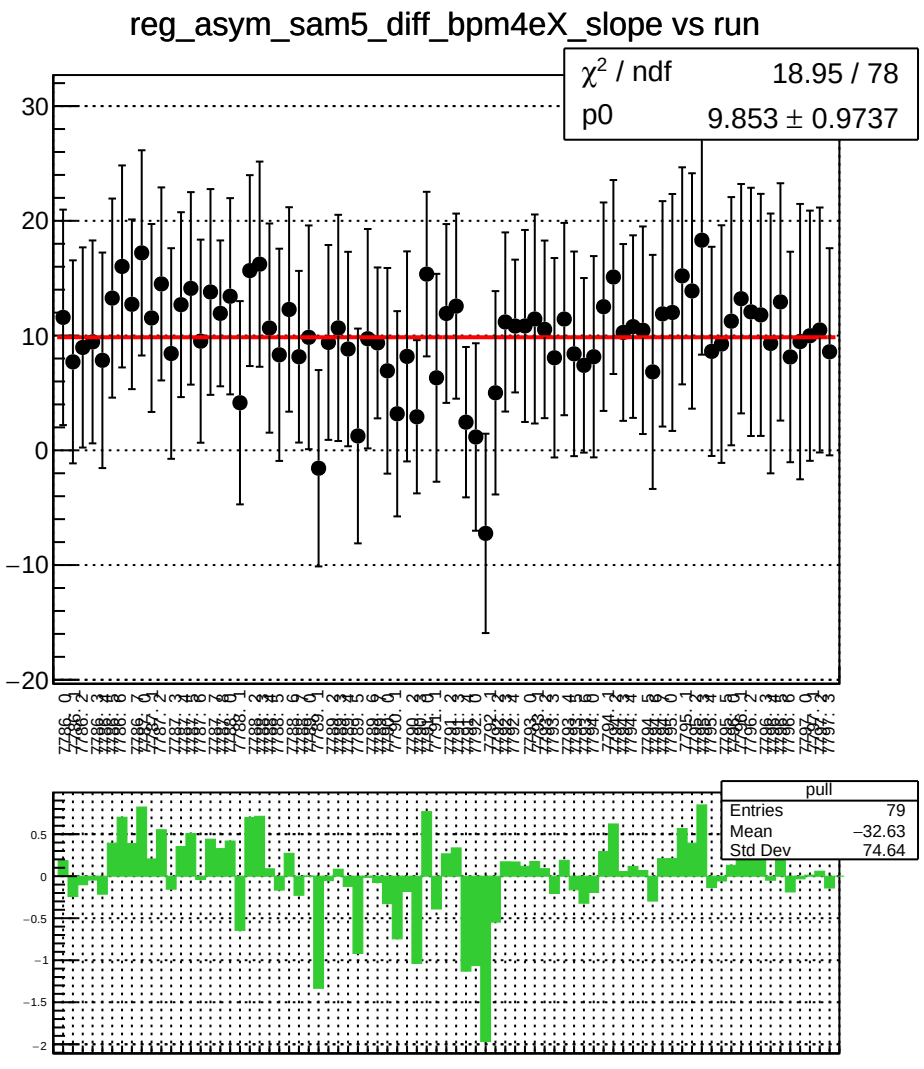

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 3.979 / 78
p0 −4.49 ± 0.2737
pull
Entries 79
Mean 5984
Std Dev 0
pull1D
Entries 79
Mean −0.0003658
Std Dev 0.2244

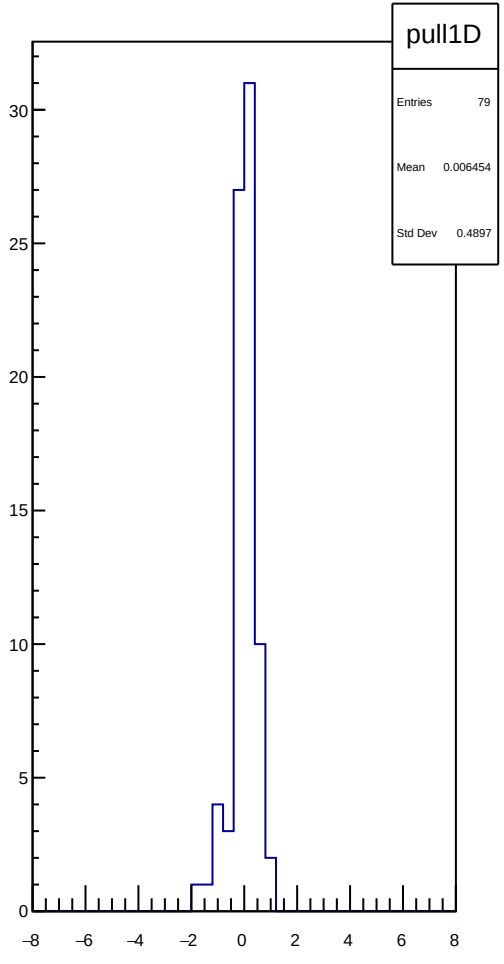

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 19.7 / 78
p0 −5.271 ± 1.119
pull
Entries 79
Mean 32.05
Std Dev 96.58

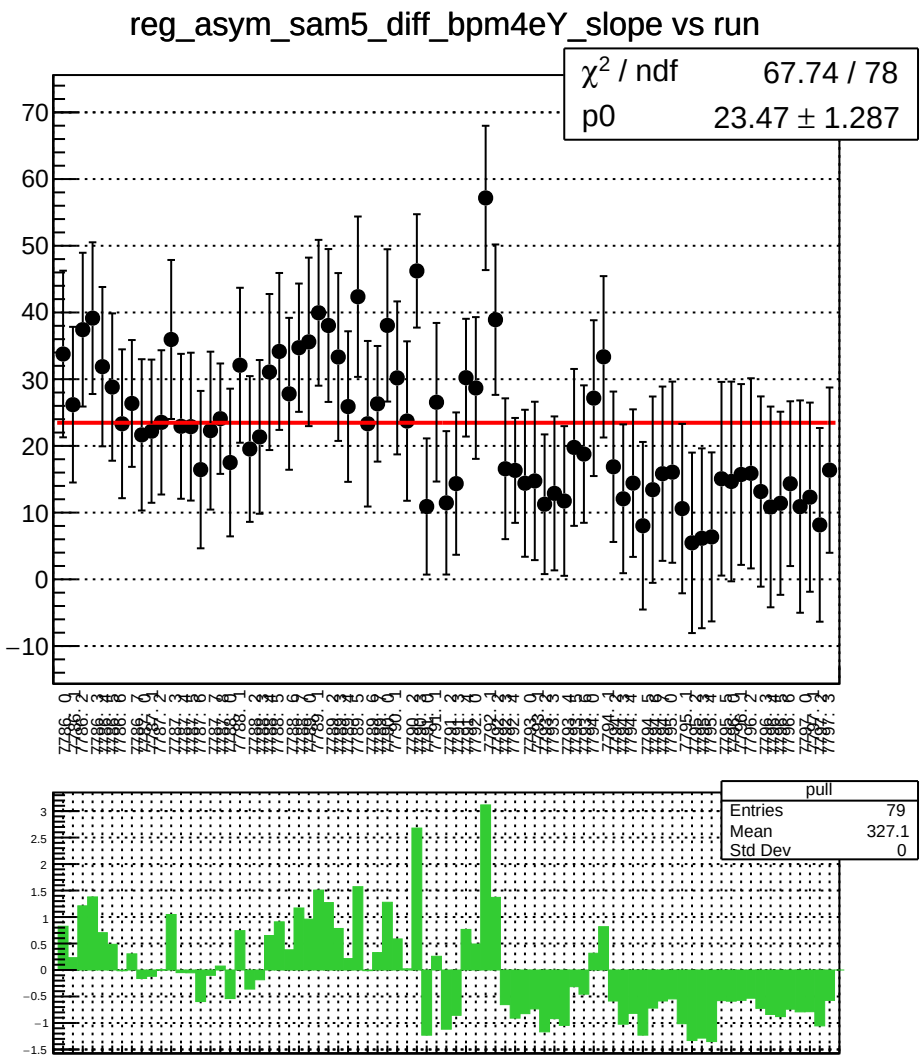

pull1D
Entries 79
Mean −0.007433
Std Dev 0.4993

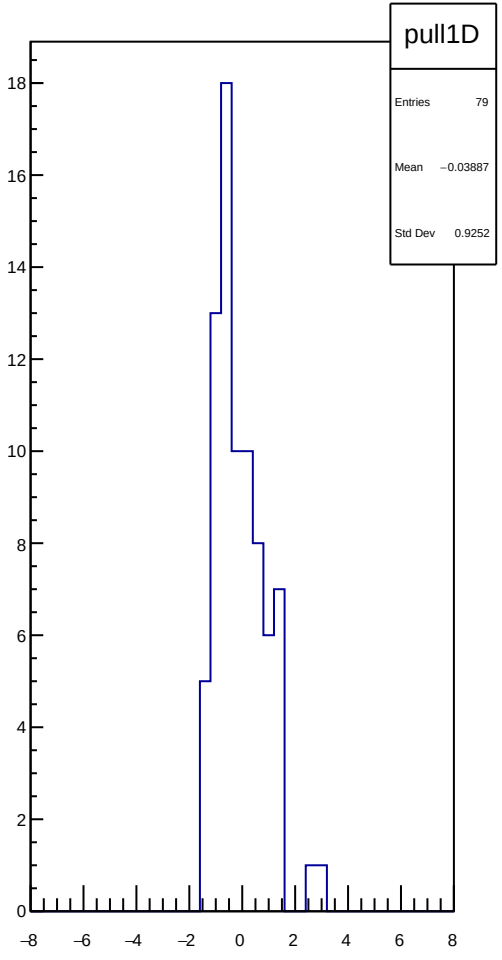

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 99.3 / 78
p0 115.2 ± 1.135
pull
Entries 79
Mean 253.4
Std Dev 0

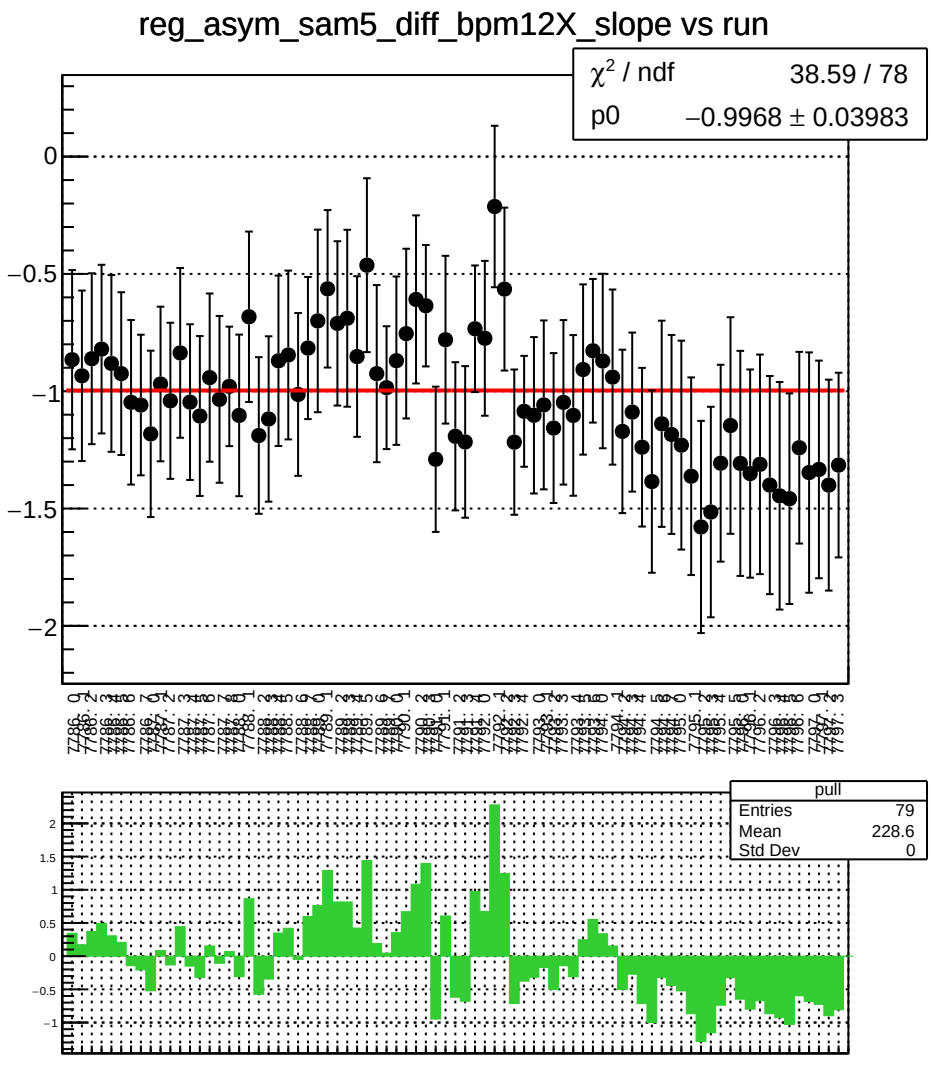

pull1D
Entries 79
Mean 0.06316
Std Dev 1.119

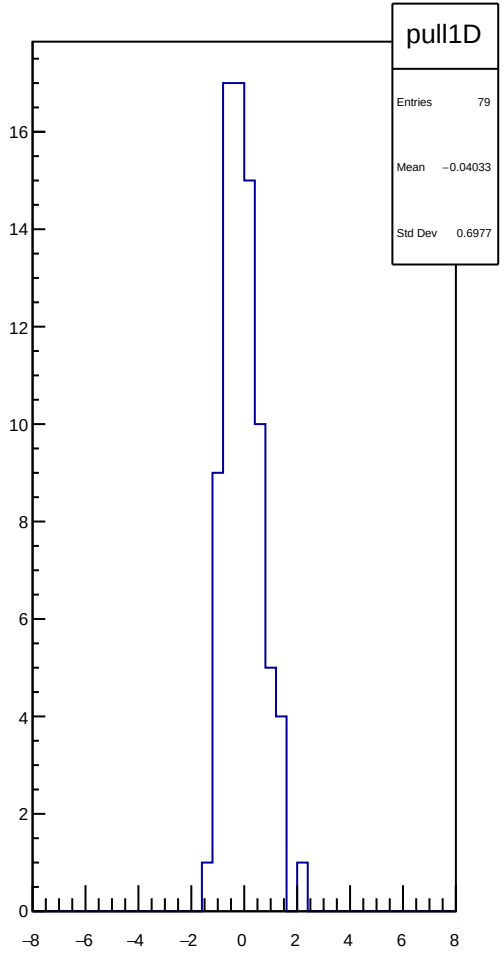

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 18.95 / 78
p0 9.853 ± 0.9737
pull
Entries 79
Mean −32.63
Std Dev 74.64

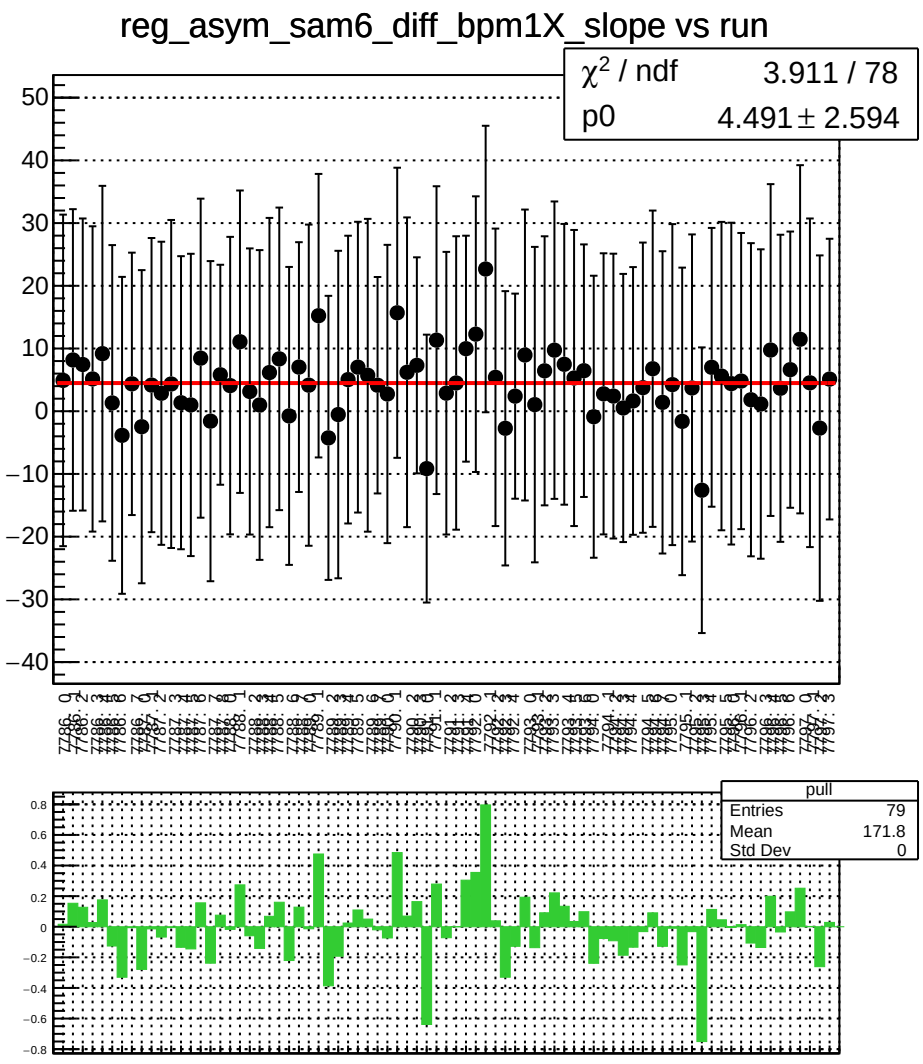

pull1D
Entries 79
Mean 0.006454
Std Dev 0.4897

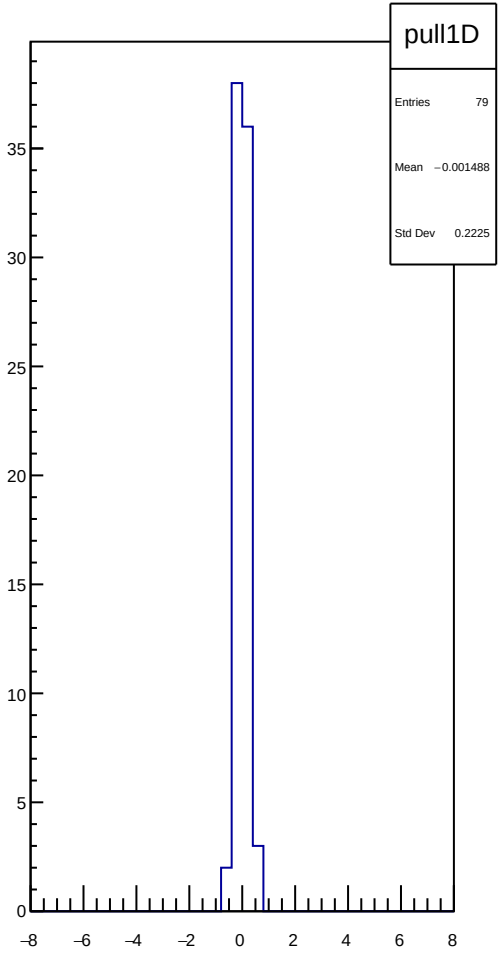

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 67.74 / 78
p0 23.47 ± 1.287
pull
Entries 79
Mean 327.1
Std Dev 0

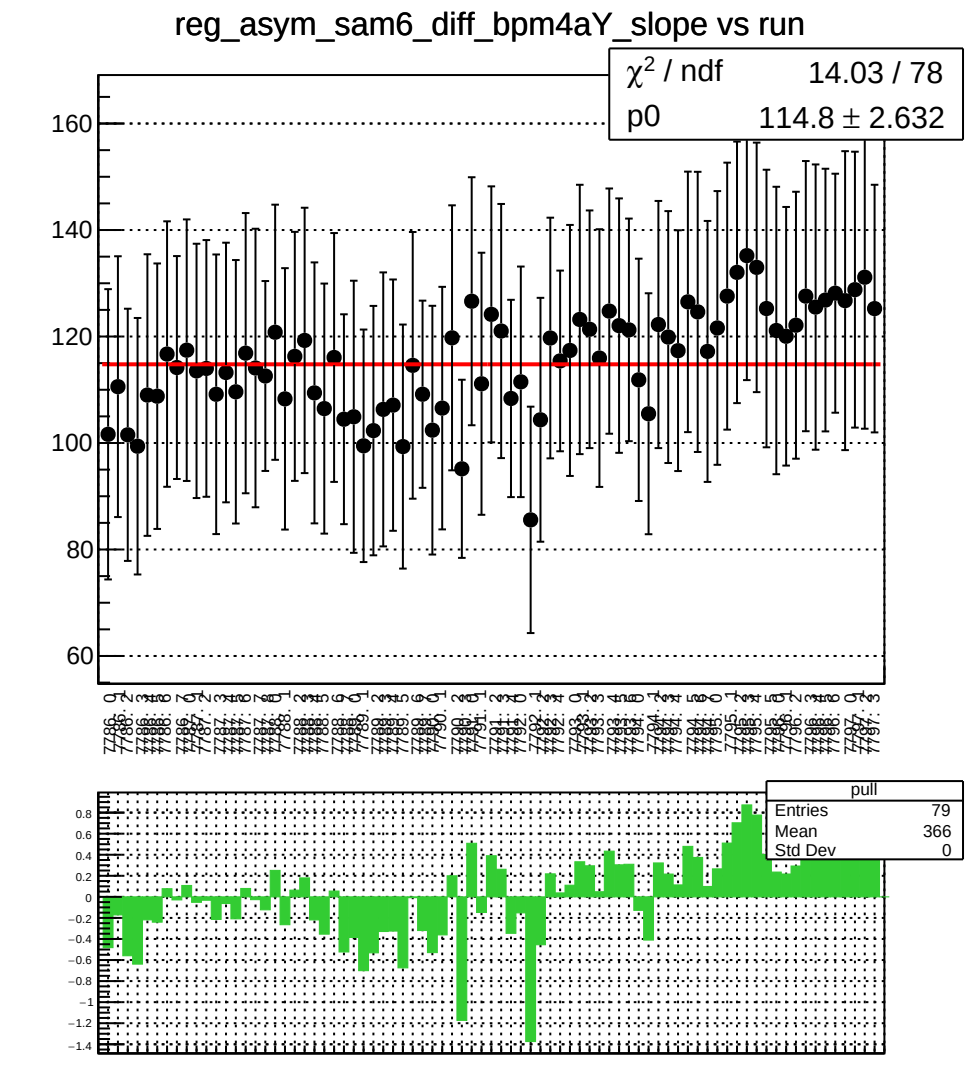

pull1D
Entries 79
Mean −0.03887
Std Dev 0.9252

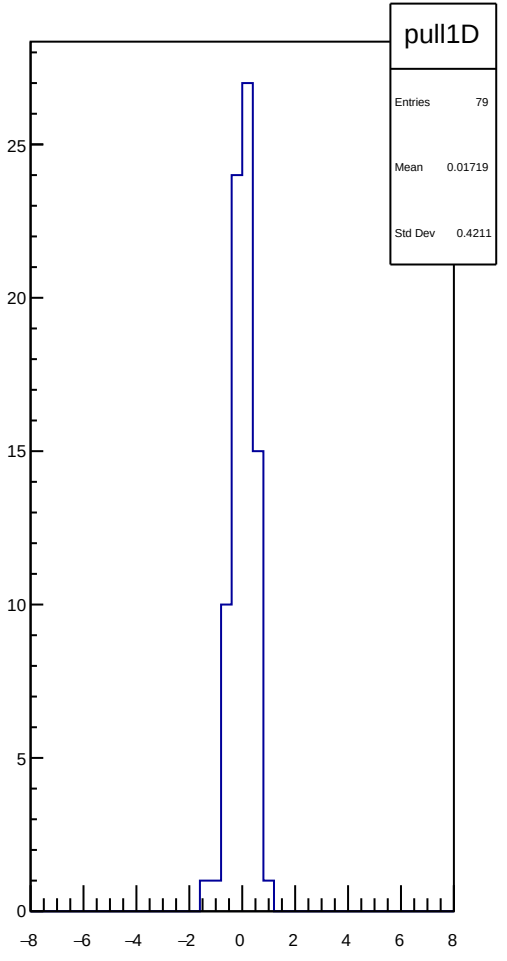

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 38.59 / 78
p0 −0.9968 ± 0.03983
pull
Entries 79
Mean 228.6
Std Dev 0

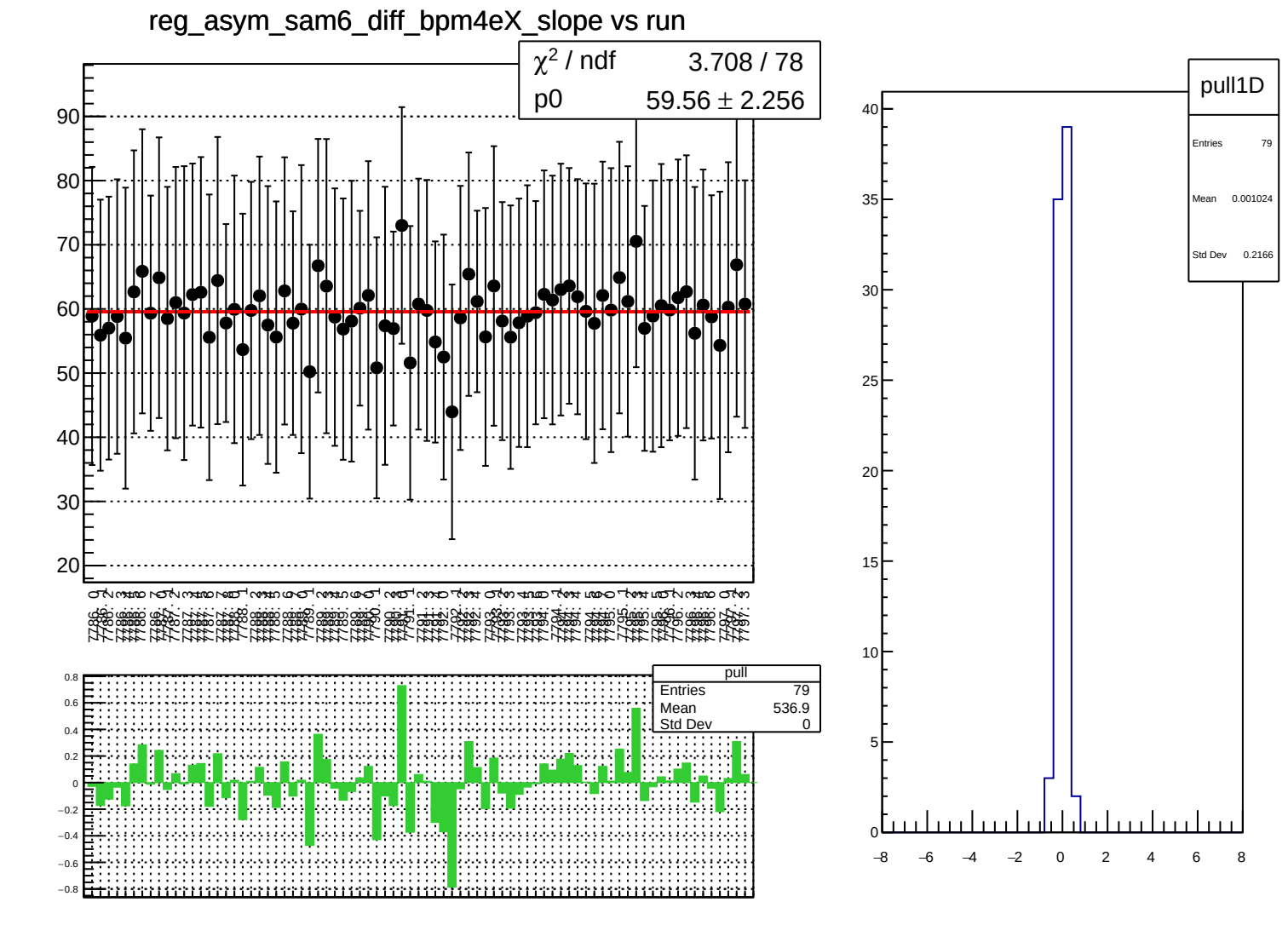

pull1D
Entries 79
Mean −0.04033
Std Dev 0.6977

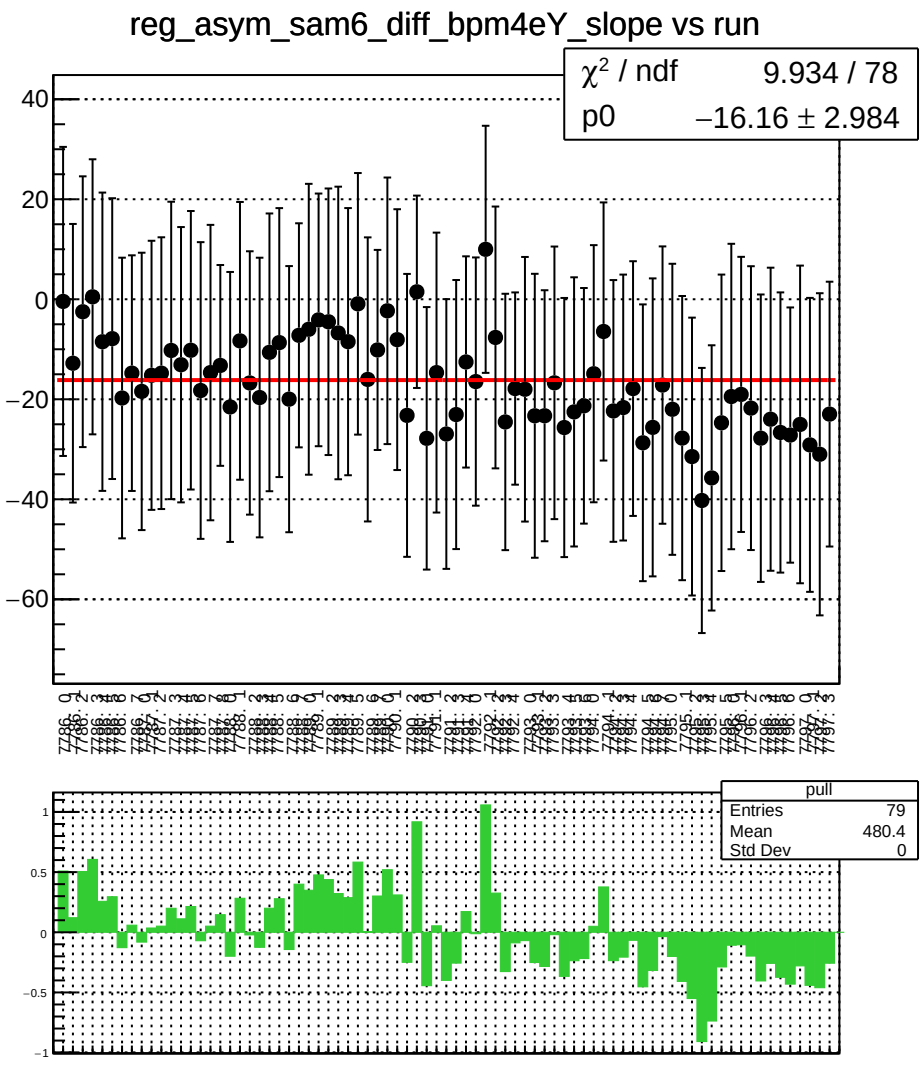

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 3.911 / 78
p0 4.491 ± 2.594
pull
Entries 79
Mean 171.8
Std Dev 0

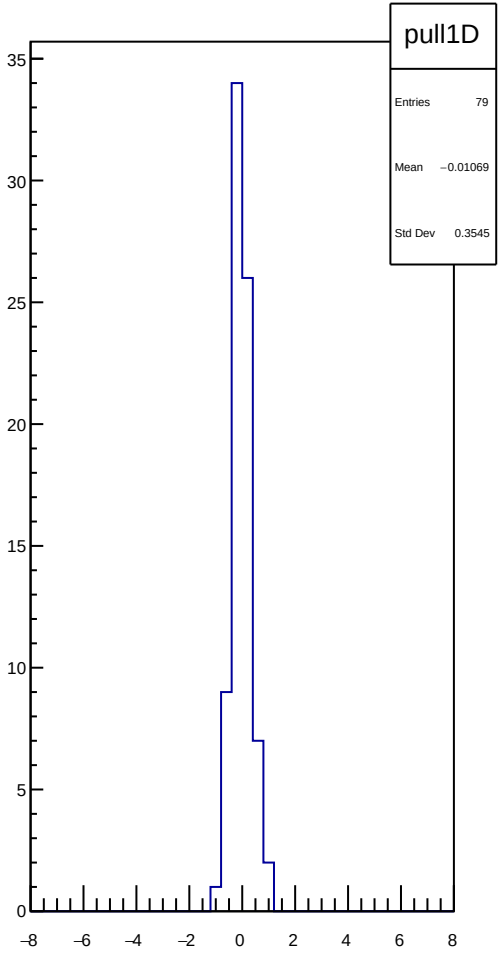

pull1D
Entries 79
Mean −0.001488
Std Dev 0.2225

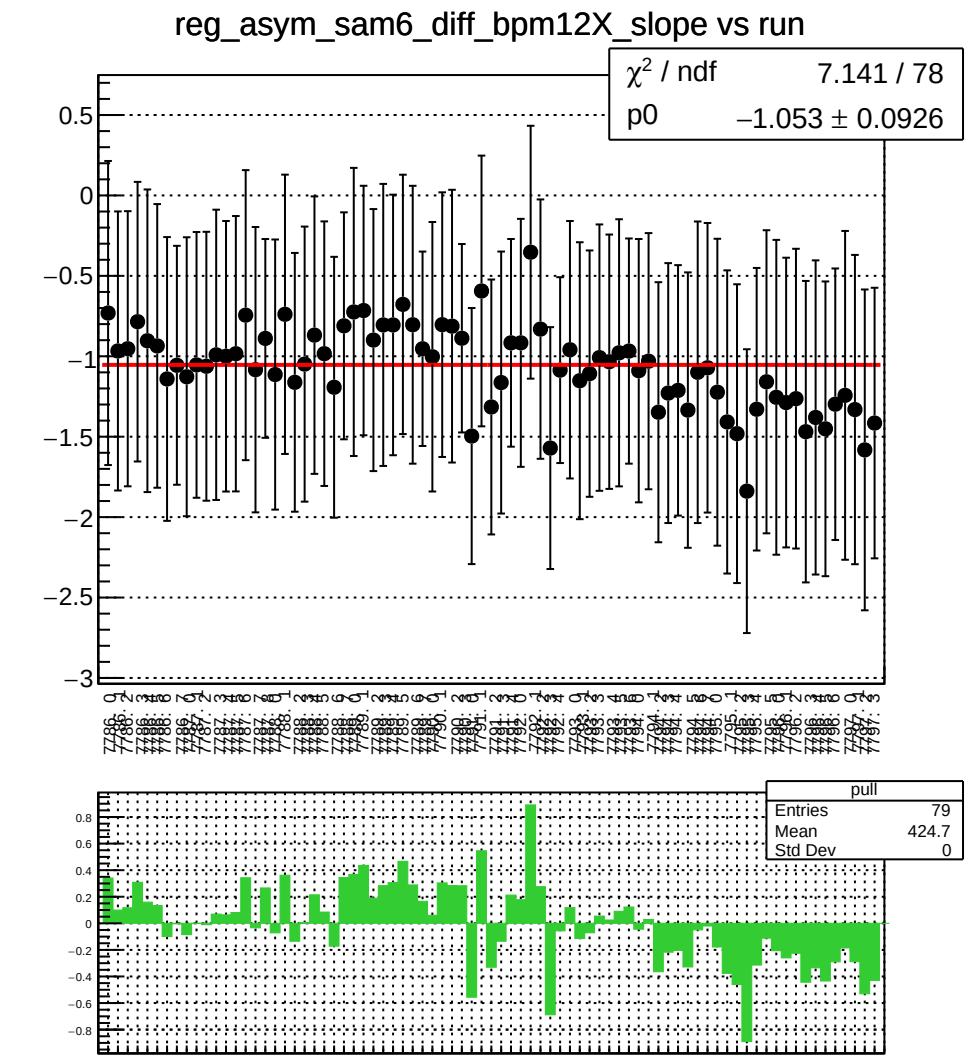

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 14.03 / 78
p0 114.8 ± 2.632
160
140
120
100
80
60
pull
Entries 79
Mean 366
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

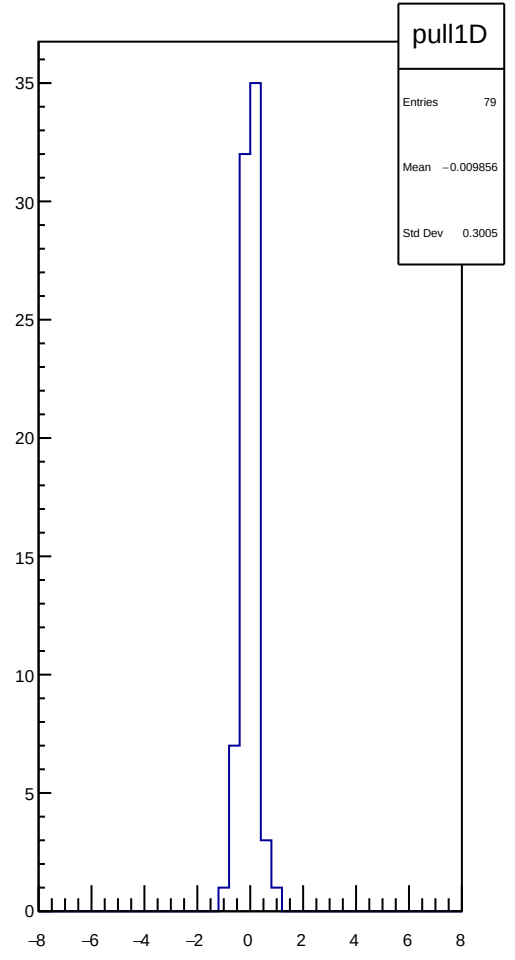

pull1D
Entries 79
Mean 0.01719
Std Dev 0.4211
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

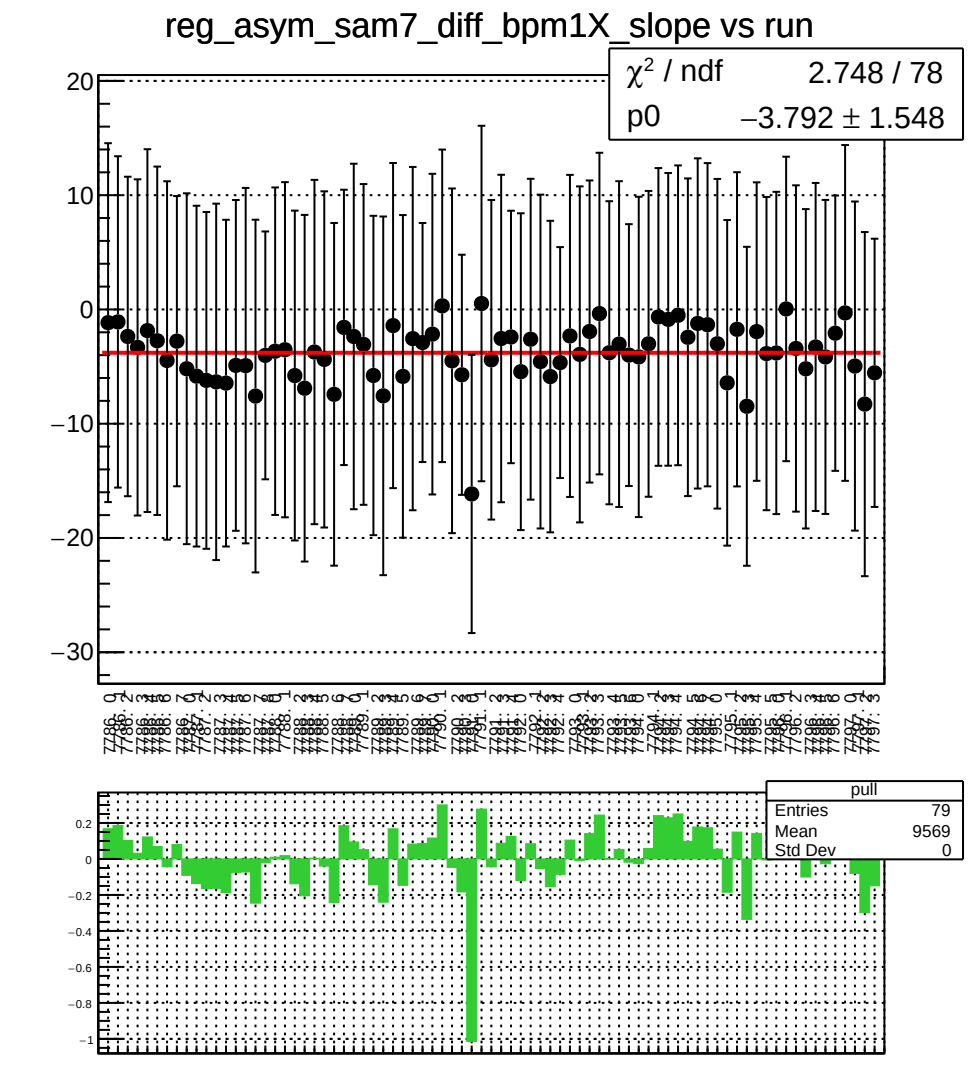

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.708 / 78
p0 59.56 ± 2.256
pull
Entries 79
Mean 536.9
Std Dev 0
pull1D
Entries 79
Mean 0.001024
Std Dev 0.2166

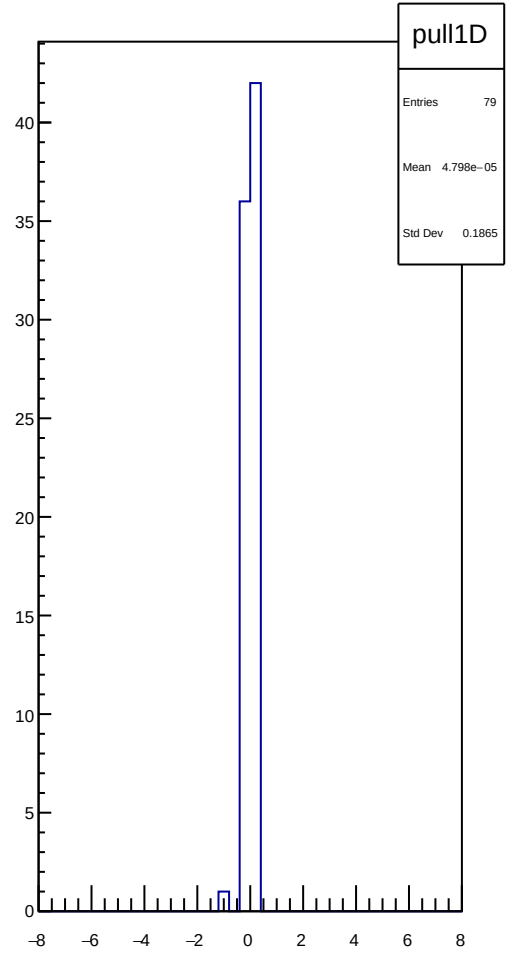

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 9.934 / 78
p0 −16.16 ± 2.984
pull
Entries 79
Mean 480.4
Std Dev 0

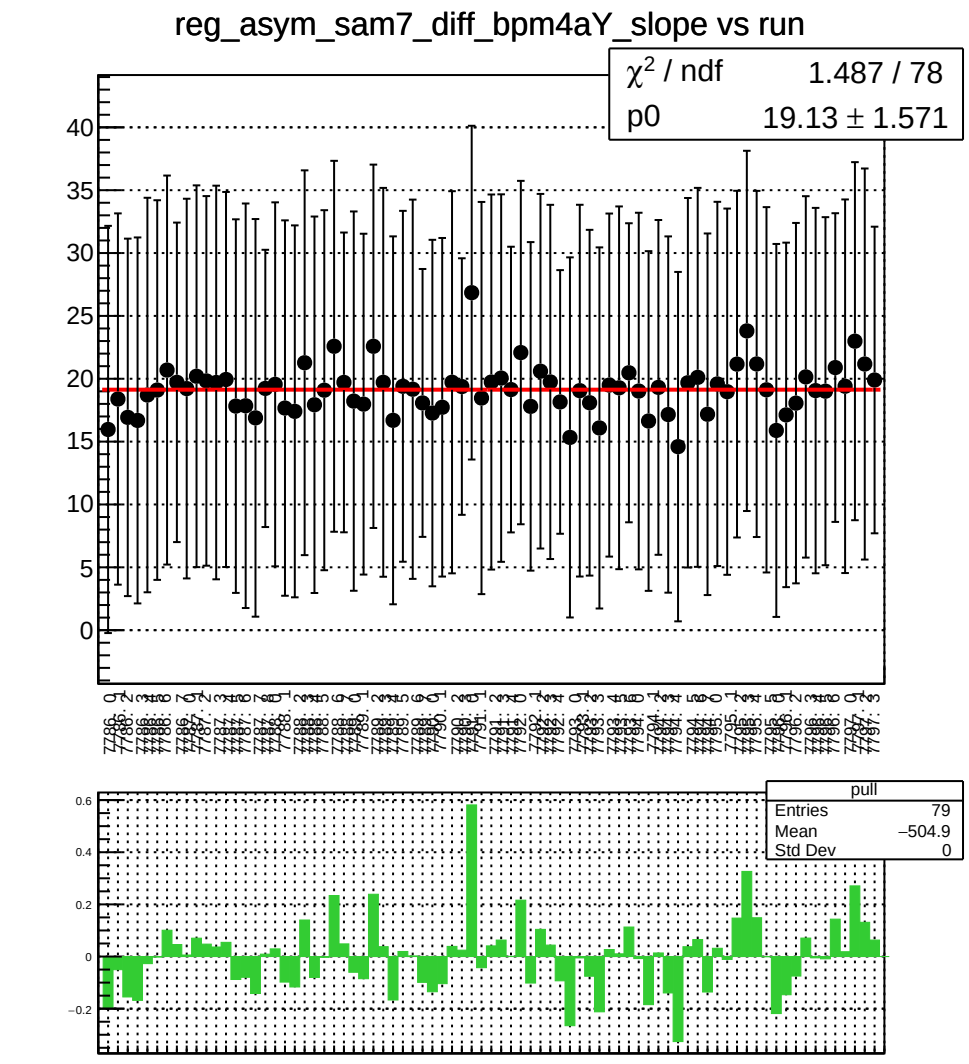

pull1D
Entries 79
Mean −0.01069
Std Dev 0.3545

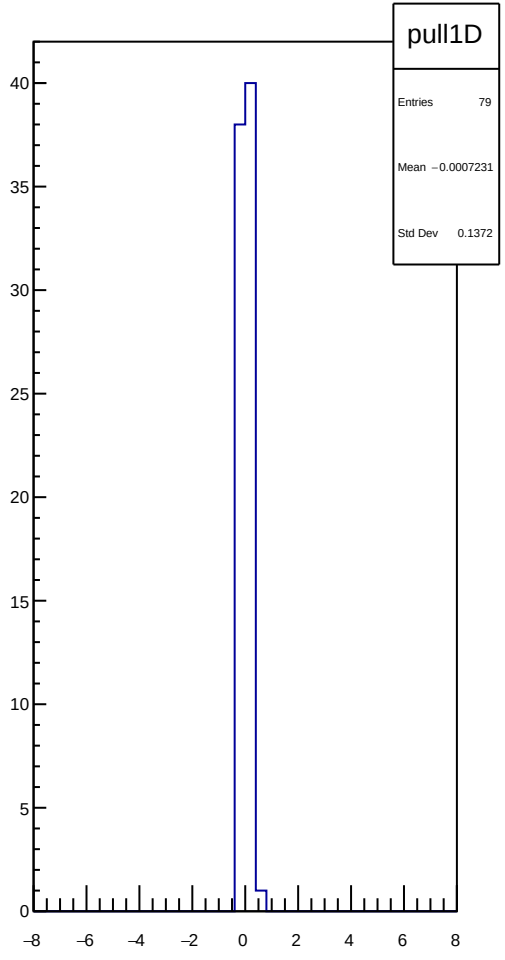

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 7.141 / 78
p0 −1.053 ± 0.0926
pull
Entries 79
Mean 424.7
Std Dev 0

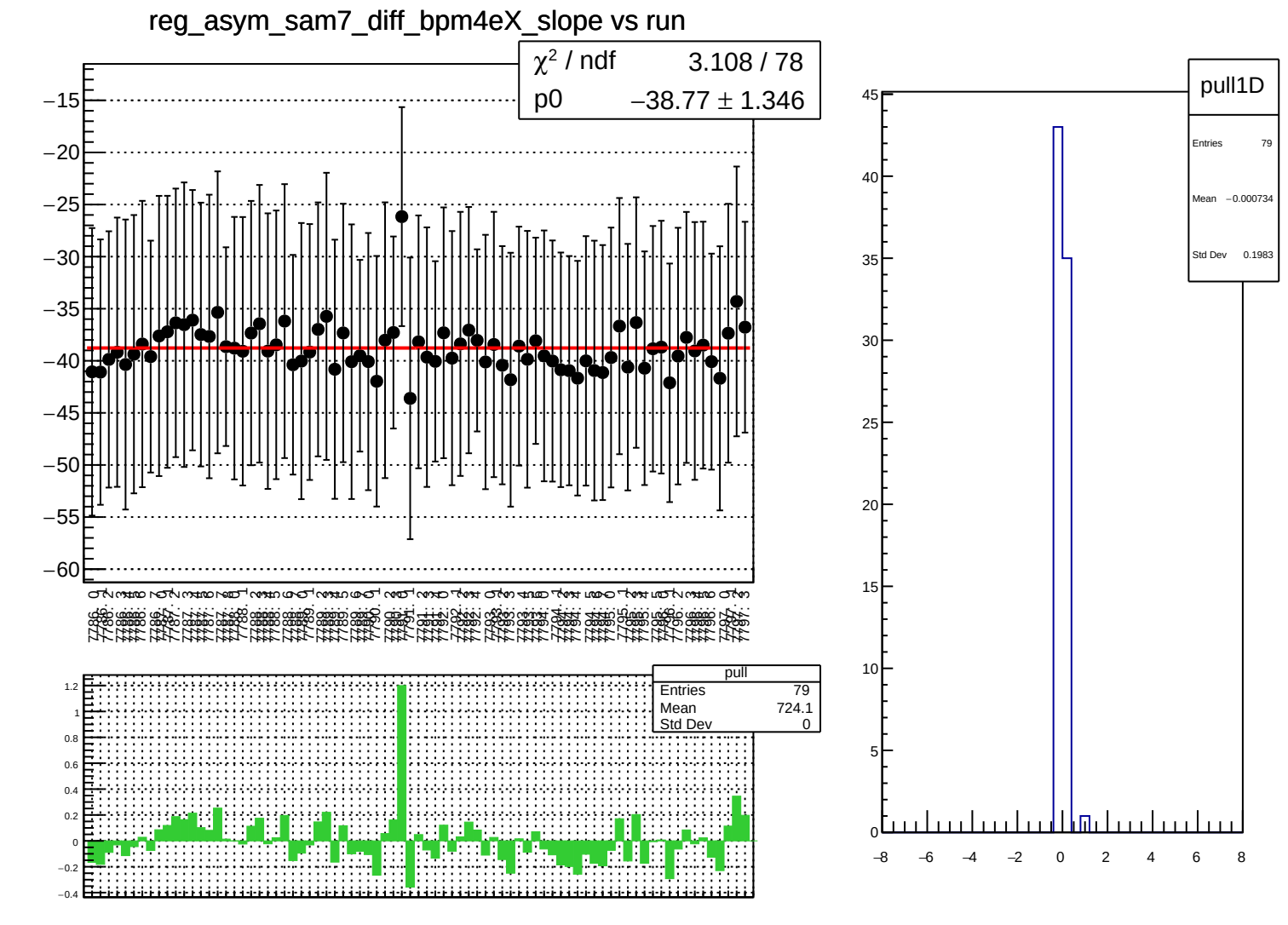

pull1D
Entries 79
Mean −0.009856
Std Dev 0.3005

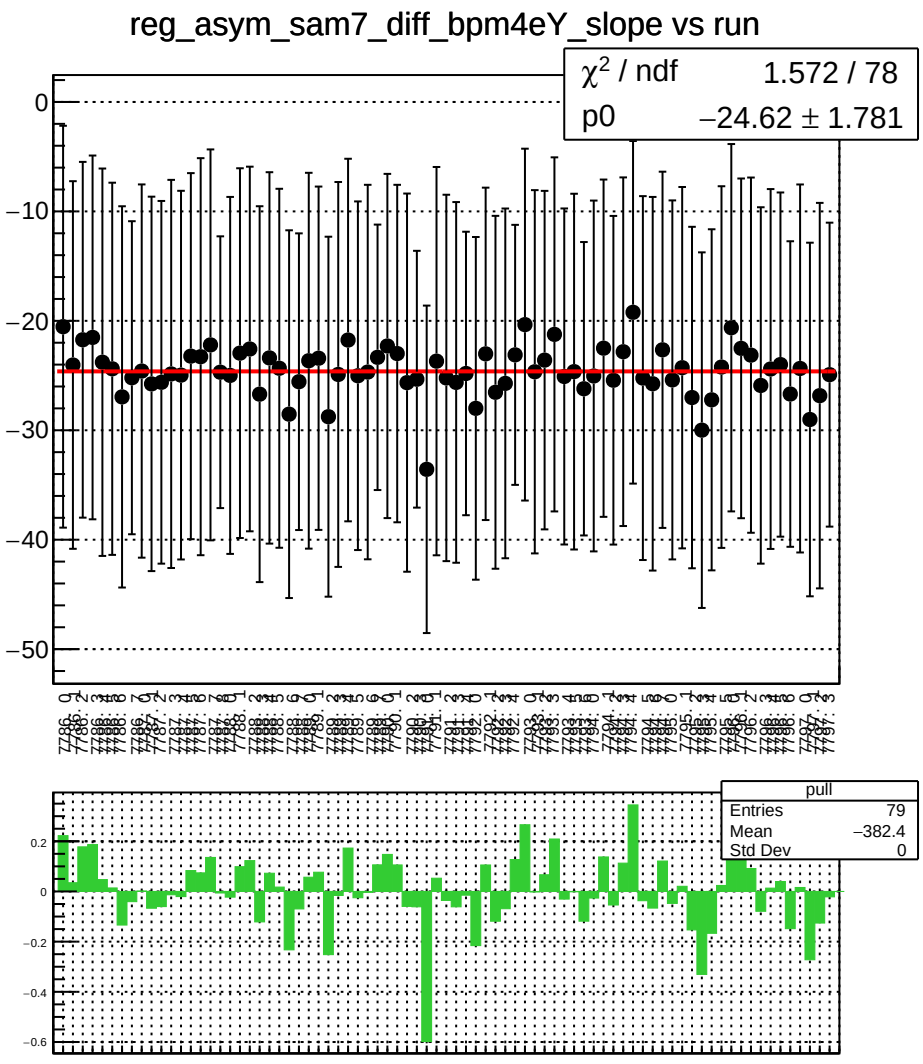

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 2.748 / 78
p0 −3.792 ± 1.548
pull
Entries 79
Mean 9569
Std Dev 0

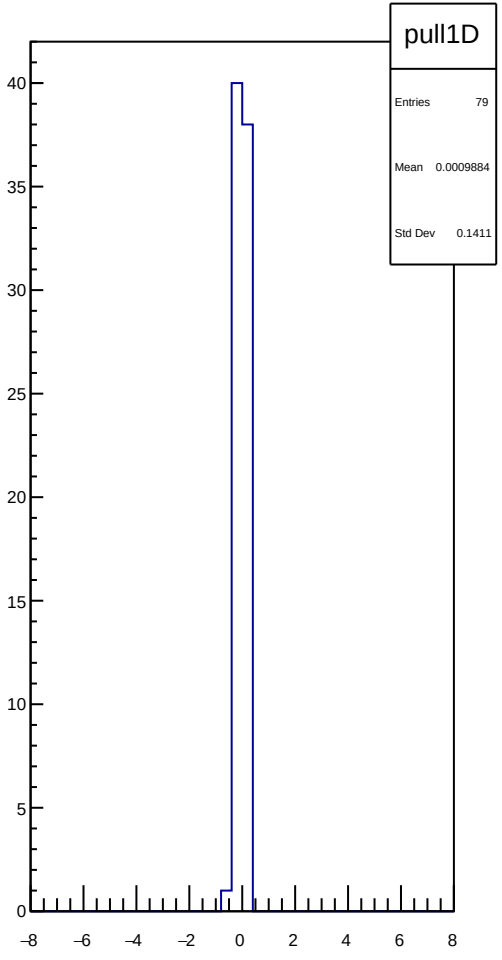

pull1D
Entries 79
Mean 4.798e−05
Std Dev 0.1865

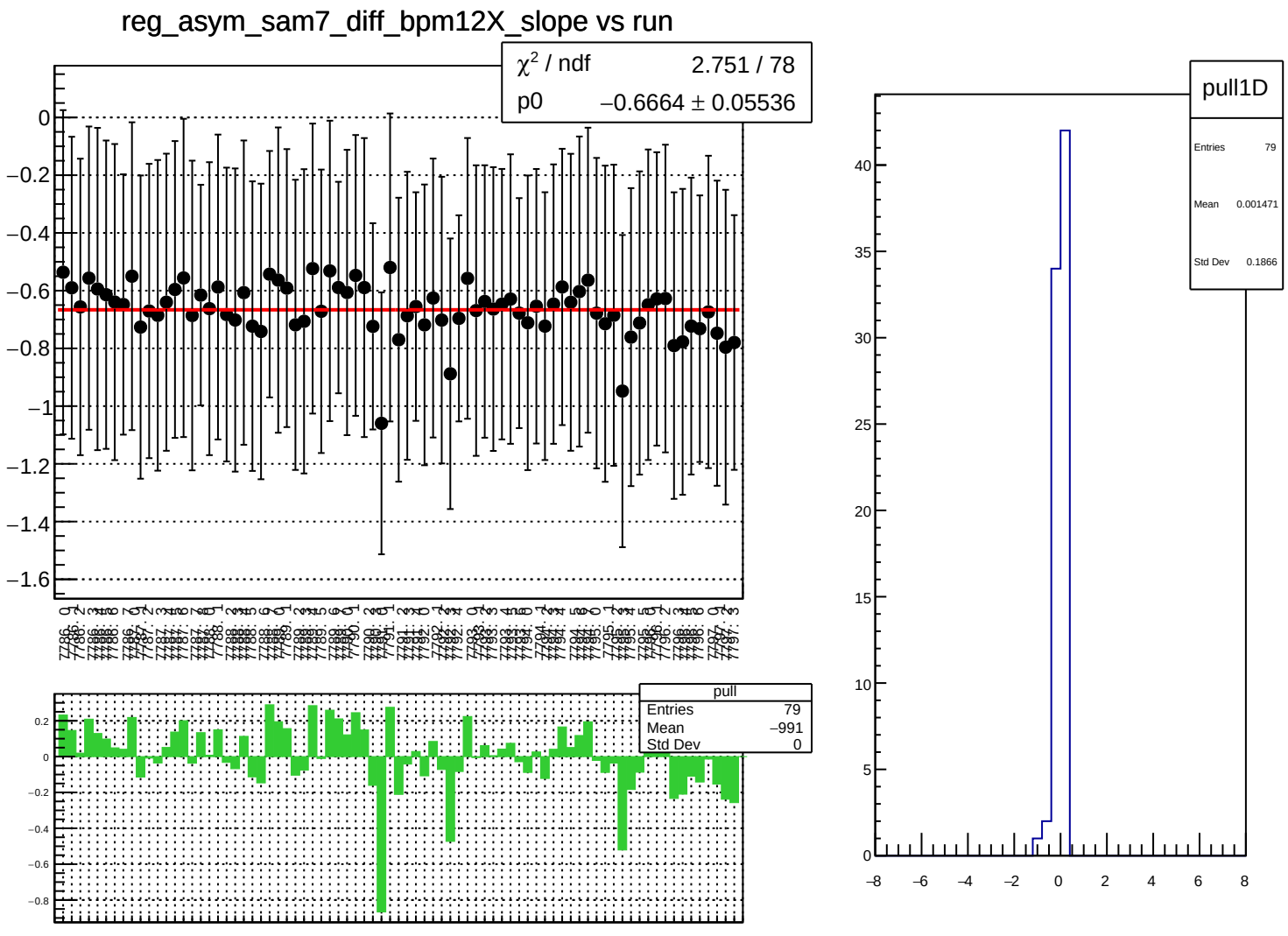

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 1.487 / 78
p0 19.13 ± 1.571
pull
Entries 79
Mean −504.9
Std Dev 0

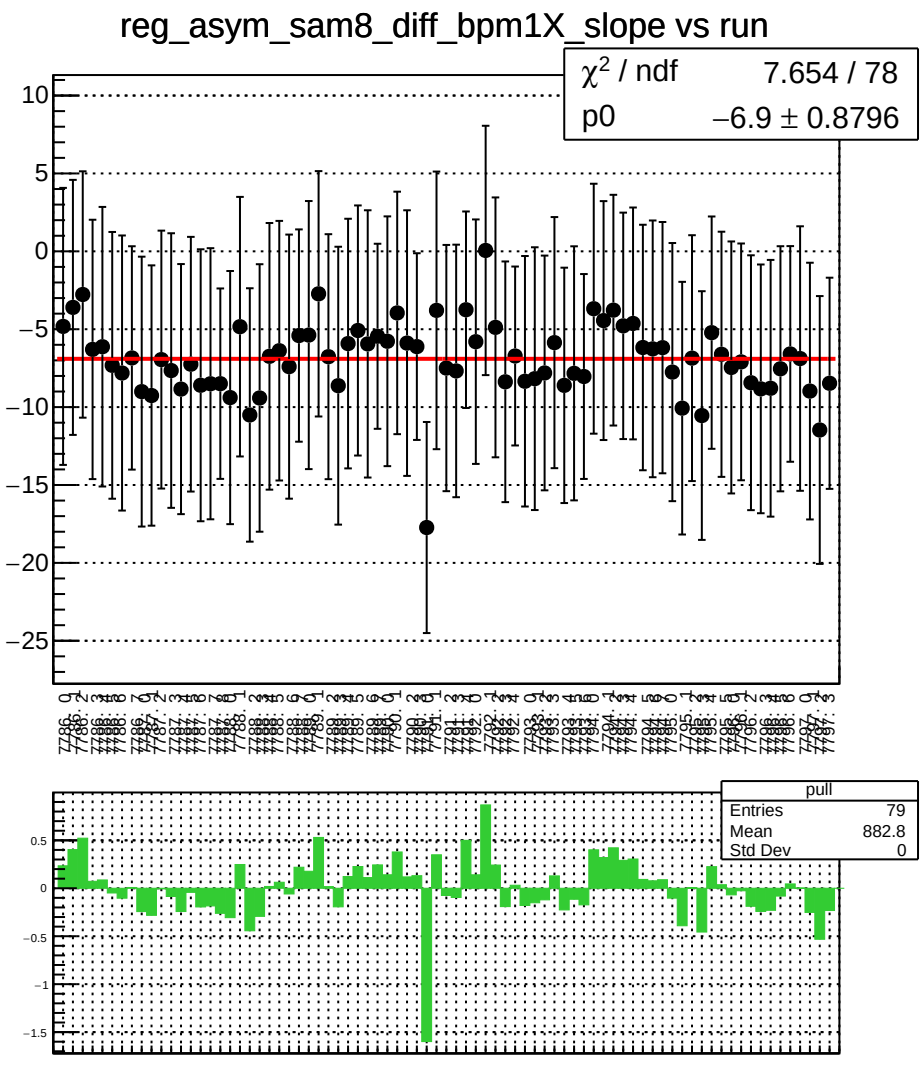

pull1D
Entries 79
Mean −0.0007231
Std Dev 0.1372

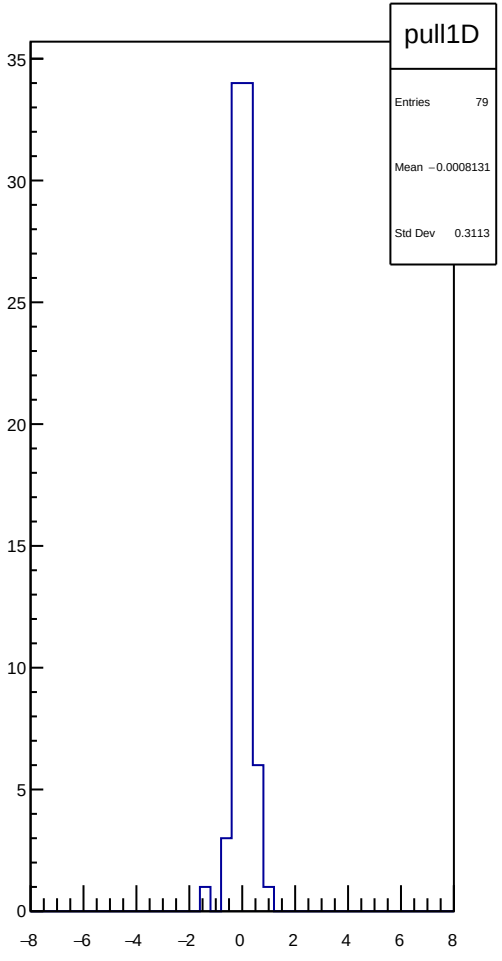

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 3.108 / 78
p0 −38.77 ± 1.346
pull
Entries 79
Mean 724.1
Std Dev 0
pull1D
Entries 79
Mean −0.000734
Std Dev 0.1983

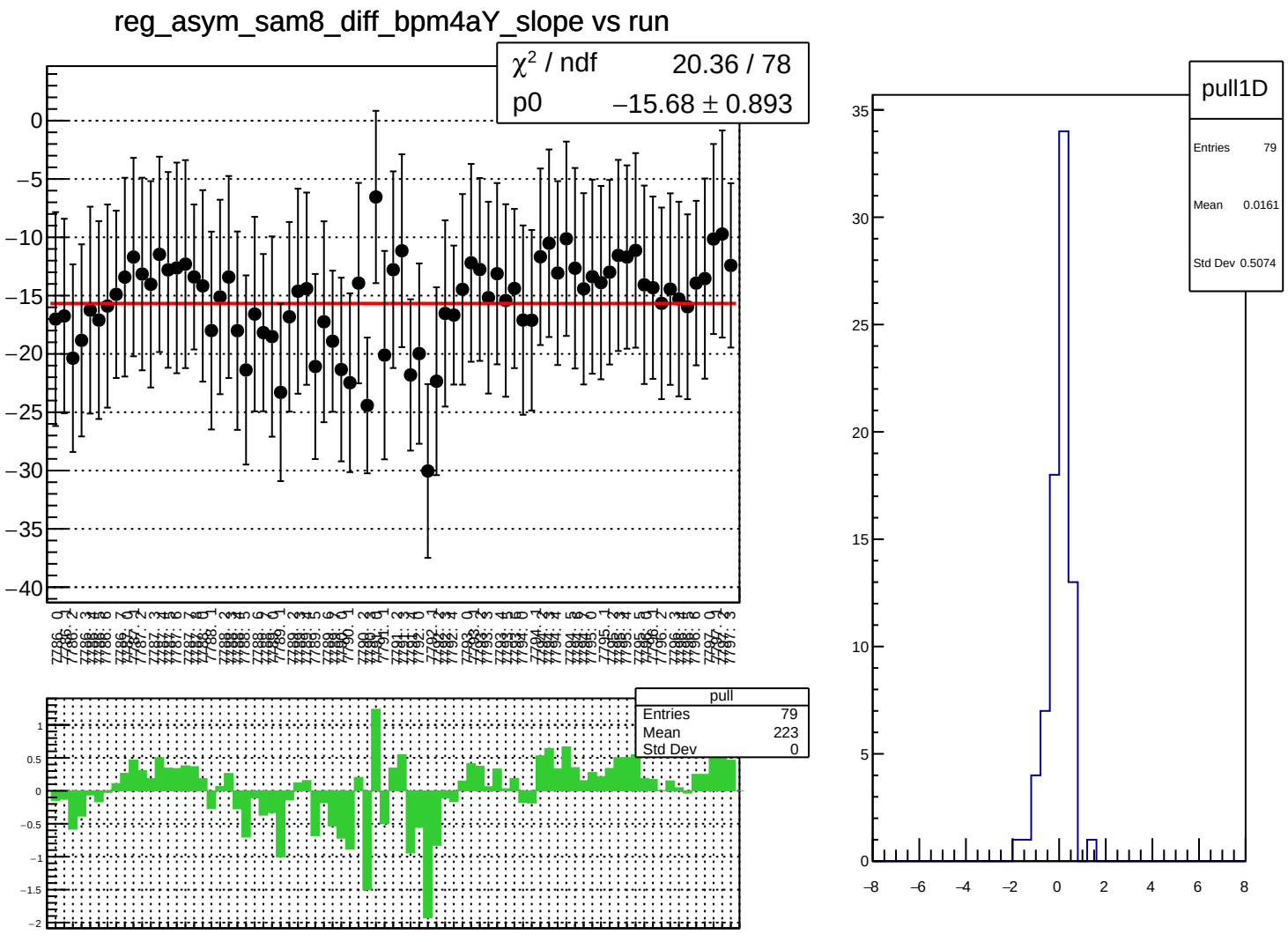

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 1.572 / 78
p0 −24.62 ± 1.781
pull
Entries 79
Mean −382.4
Std Dev 0

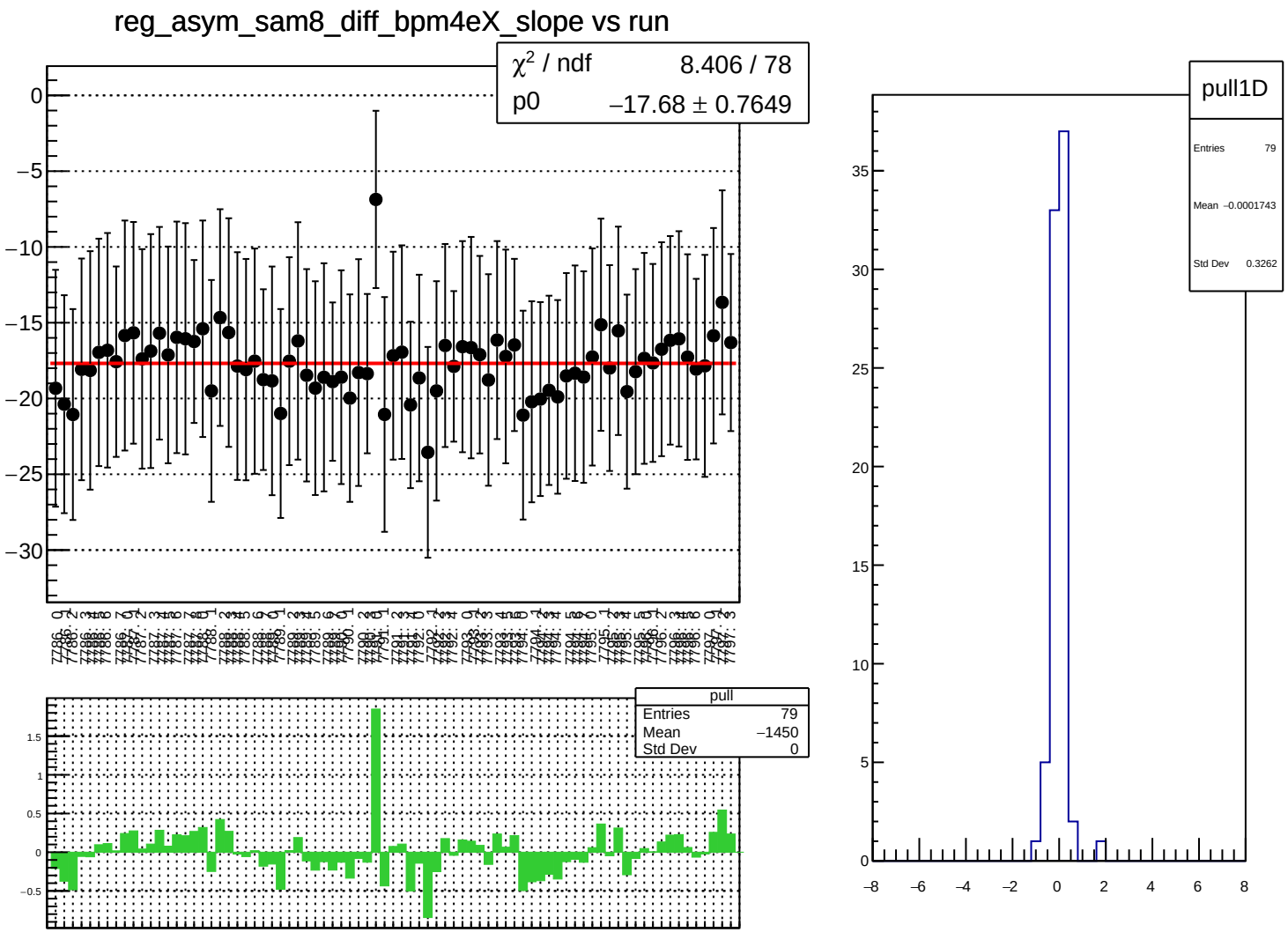

pull1D
Entries 79
Mean 0.0009884
Std Dev 0.1411

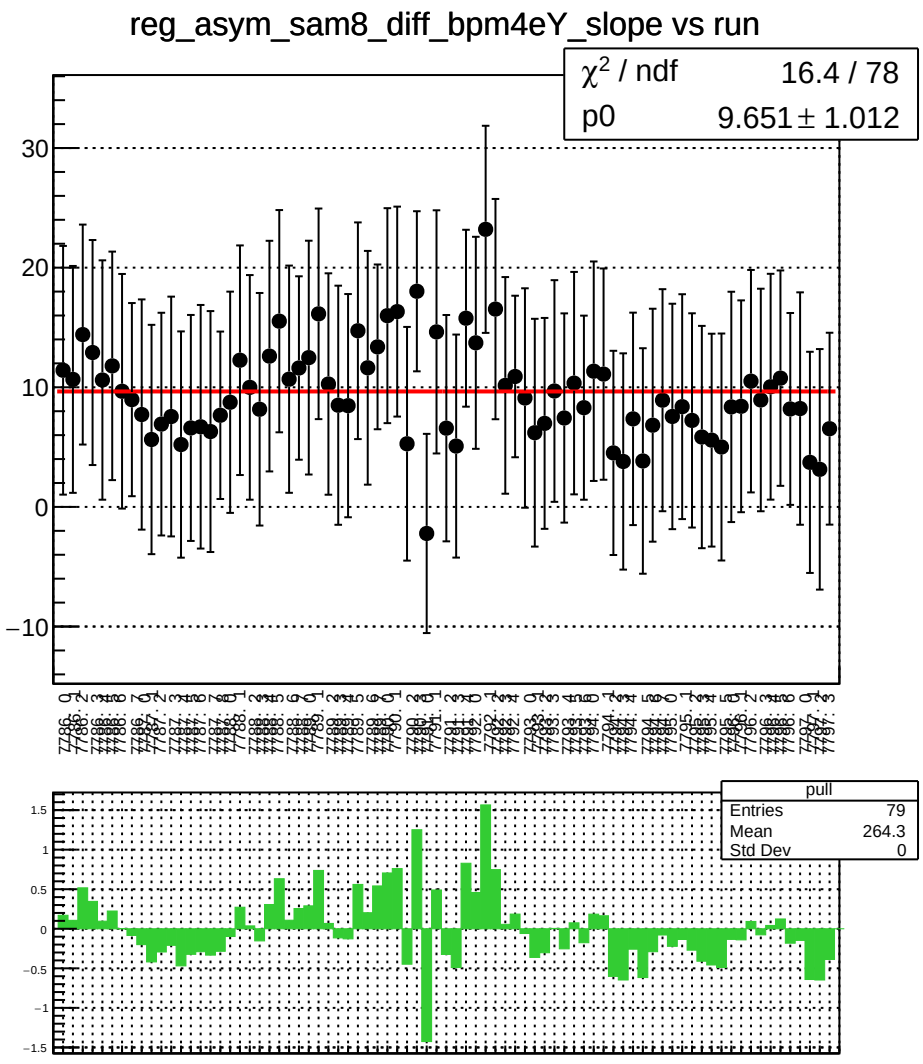

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 2.751 / 78
p0 −0.6664 ± 0.05536
pull
Entries 79
Mean −991
Std Dev 0
pull1D
Entries 79
Mean 0.001471
Std Dev 0.1866

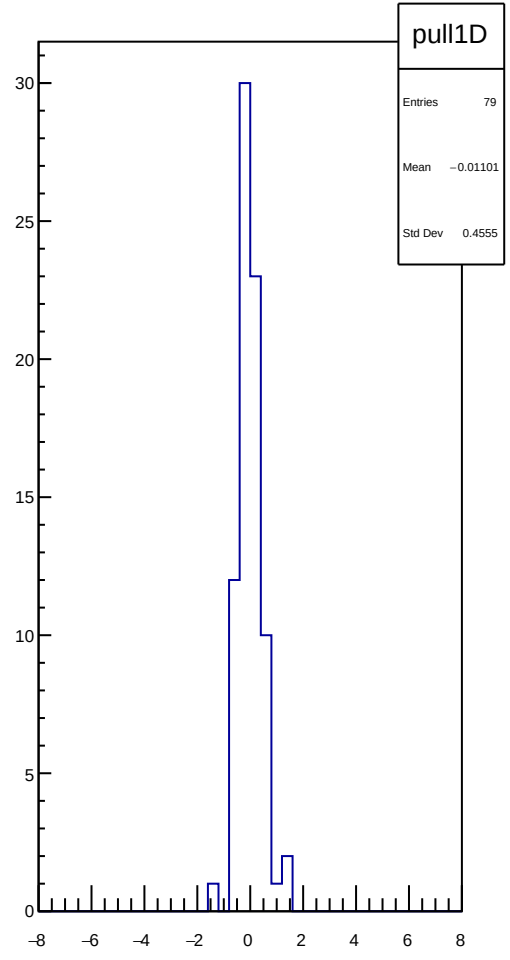

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 7.654 / 78
p0 −6.9 ± 0.8796
pull
Entries 79
Mean 882.8
Std Dev 0

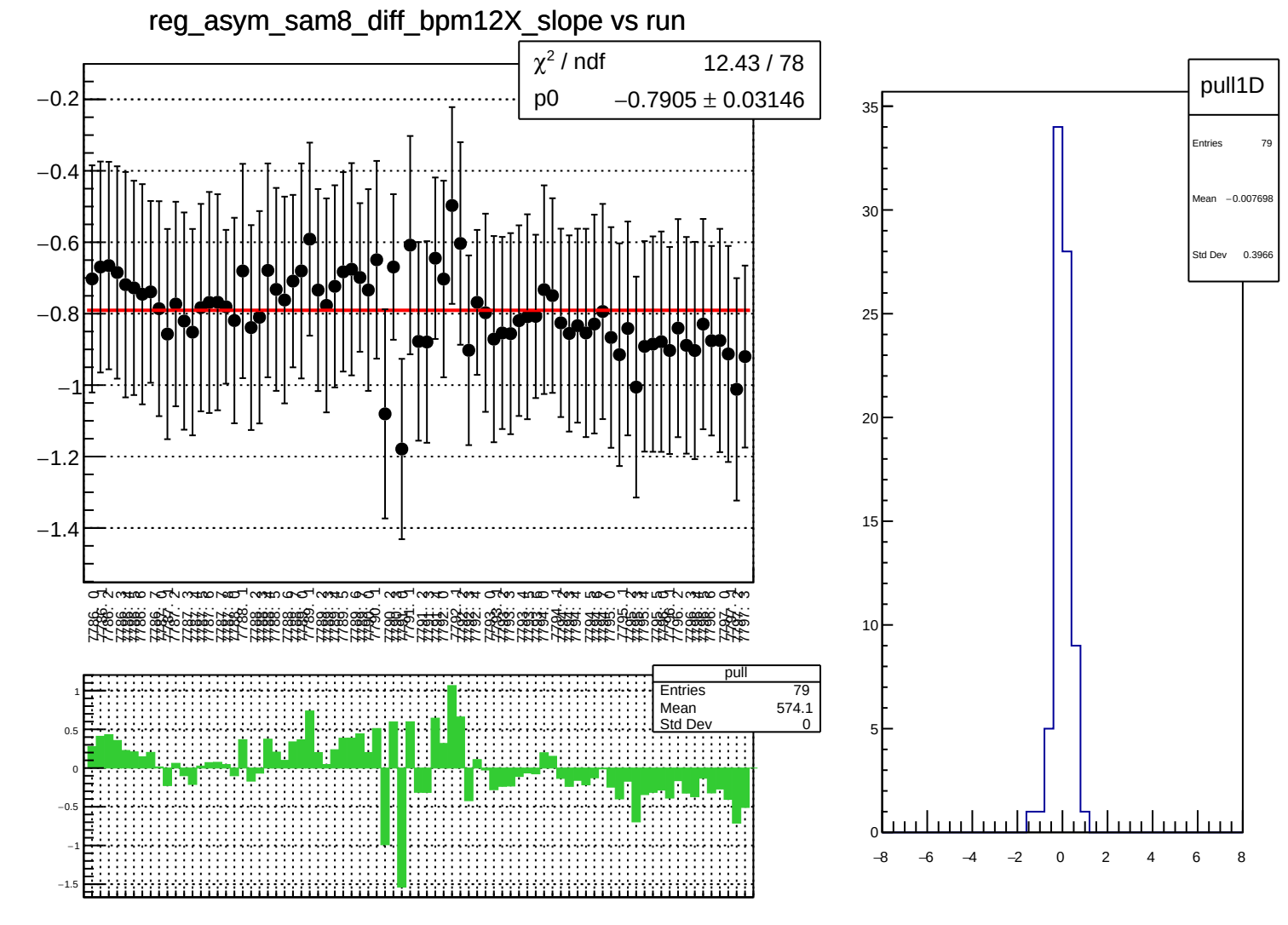

pull1D
Entries 79
Mean −0.0008131
Std Dev 0.3113

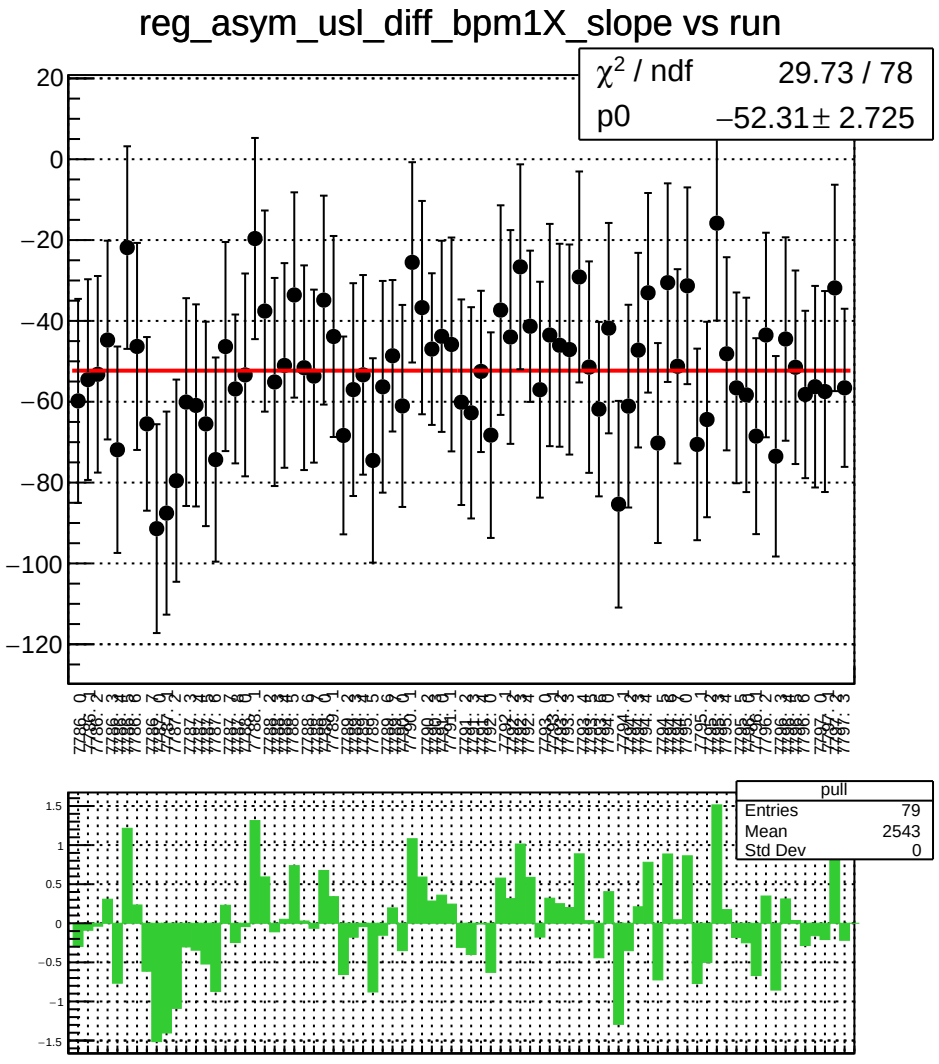

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 20.36 / 78
p0 −15.68 ± 0.893
pull
Entries 79
Mean 223
Std Dev 0
pull1D
Entries 79
Mean 0.0161
Std Dev 0.5074

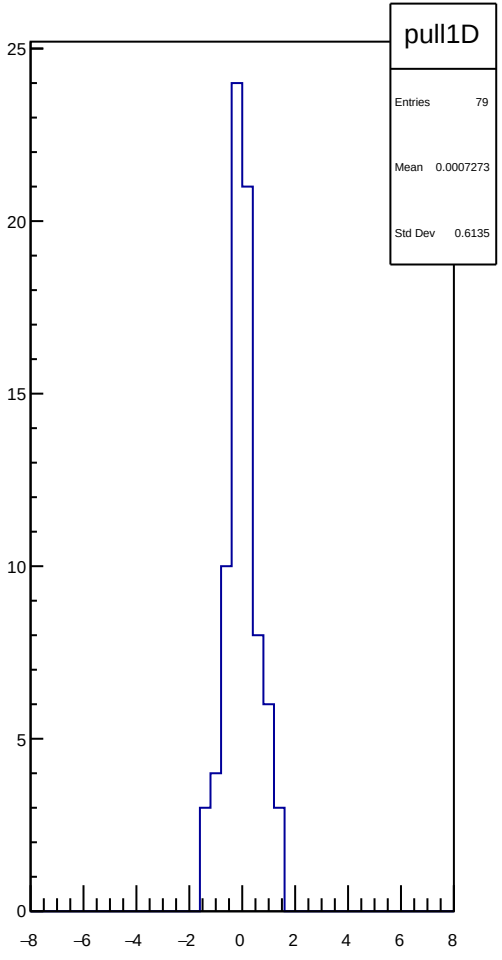

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 8.406 / 78
p0 −17.68 ± 0.7649
pull
Entries 79
Mean −1450
Std Dev 0
pull1D
Entries 79
Mean −0.0001743
Std Dev 0.3262

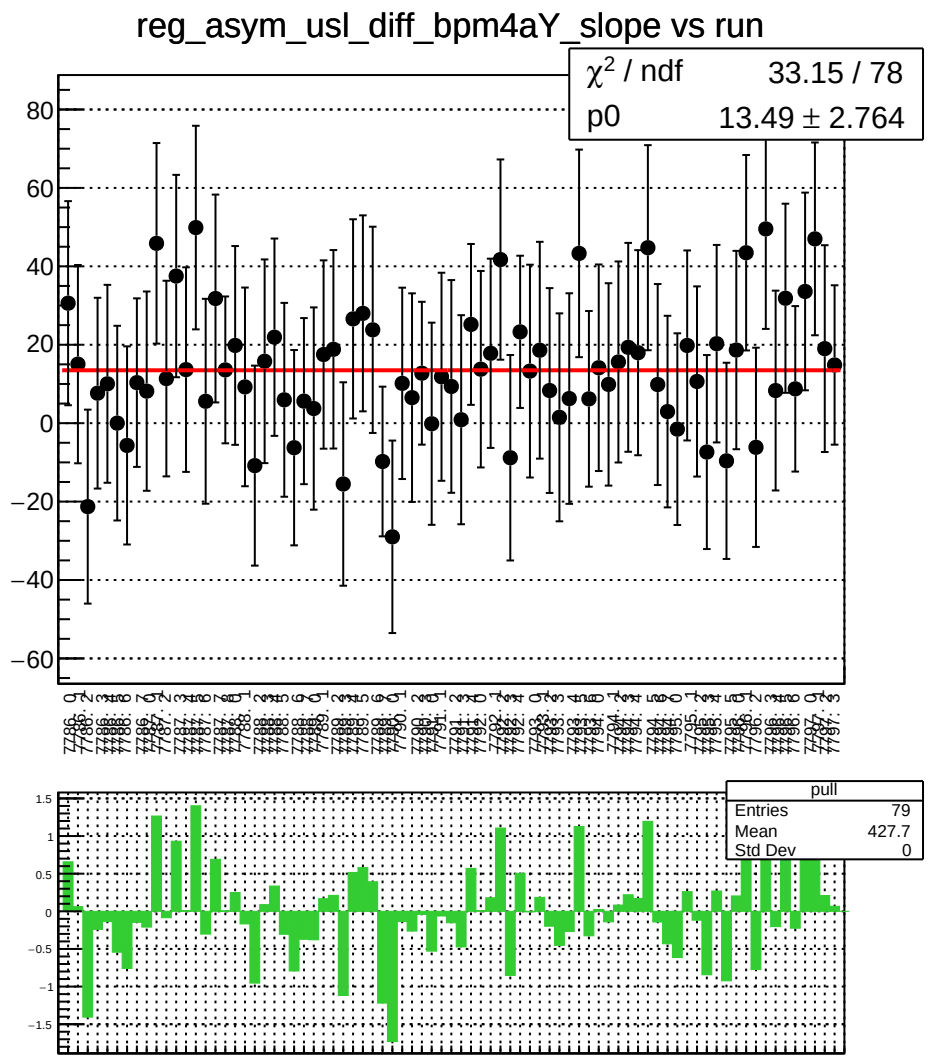

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 16.4 / 78
p0 9.651 ± 1.012
pull
Entries 79
Mean 264.3
Std Dev 0

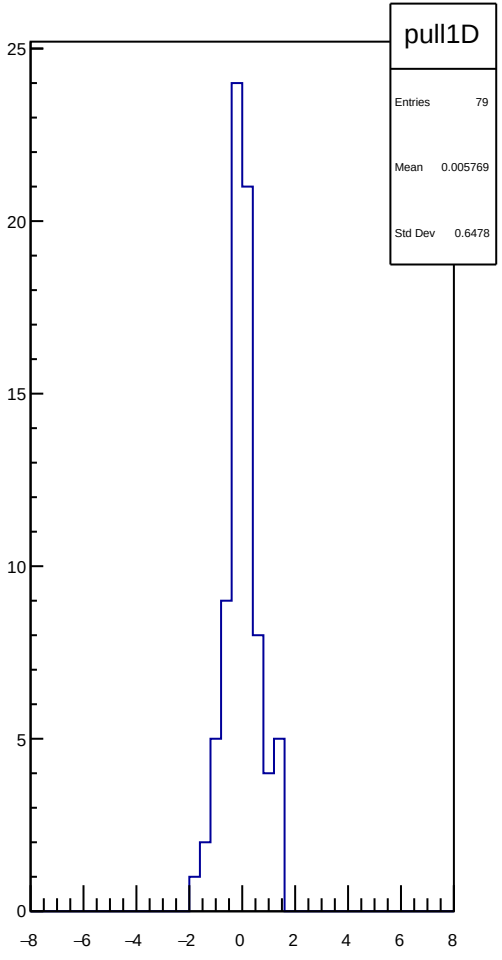

pull1D
Entries 79
Mean −0.01101
Std Dev 0.4555

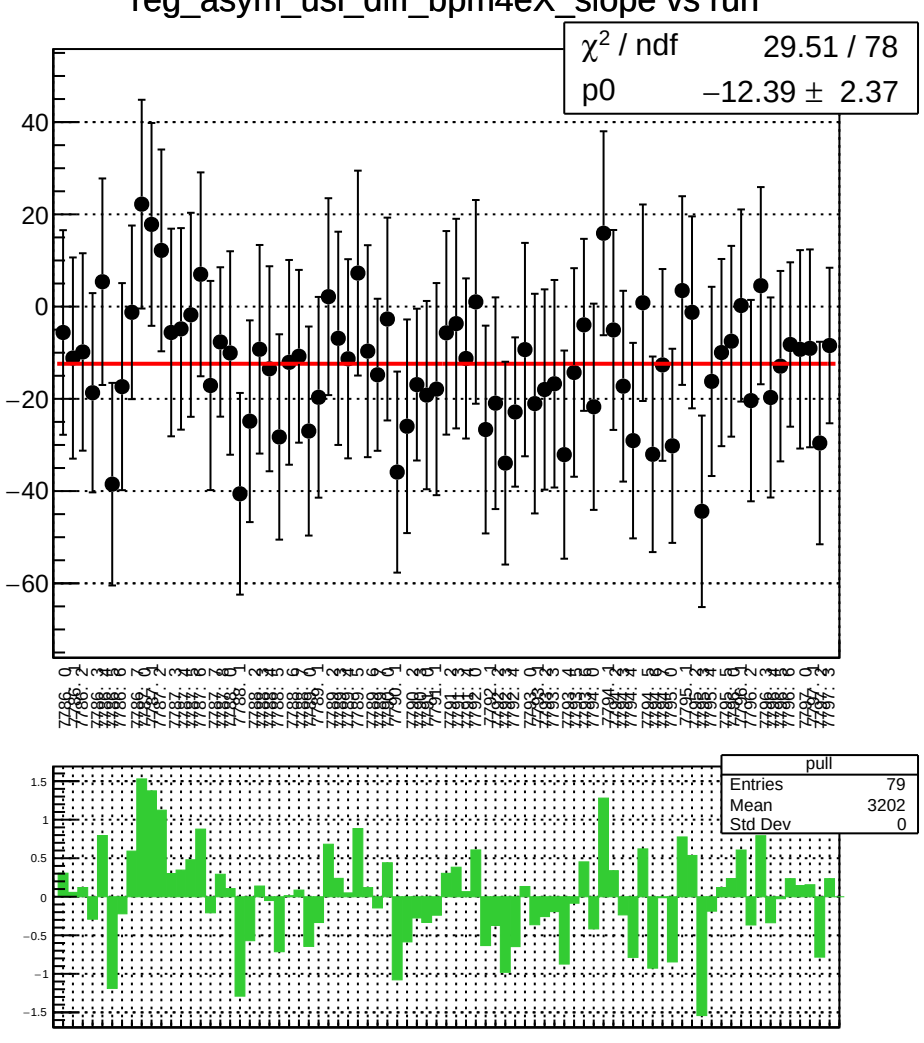

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 12.43 / 78
p0 −0.7905 ± 0.03146
pull
Entries 79
Mean 574.1
Std Dev 0
pull1D
Entries 79
Mean −0.007698
Std Dev 0.3966

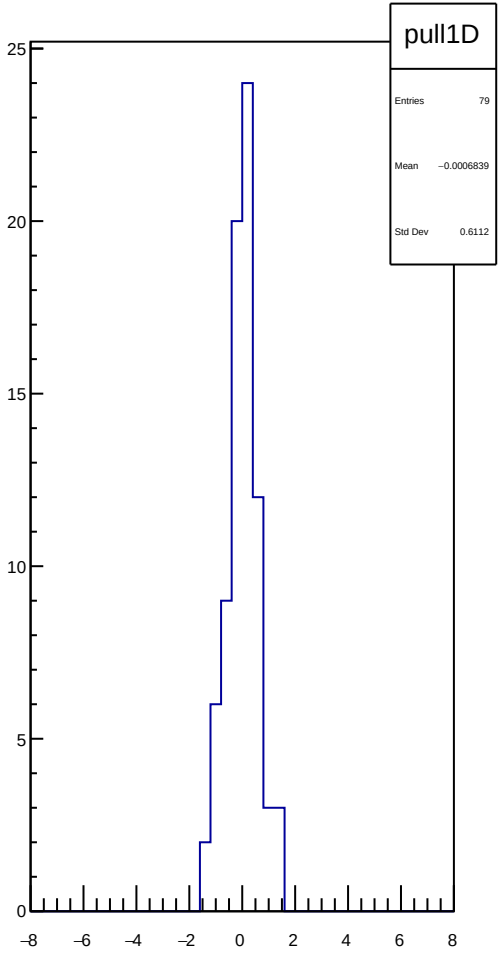

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 29.73 / 78
p0 −52.31 ± 2.725
pull
Entries 79
Mean 2543
Std Dev 0

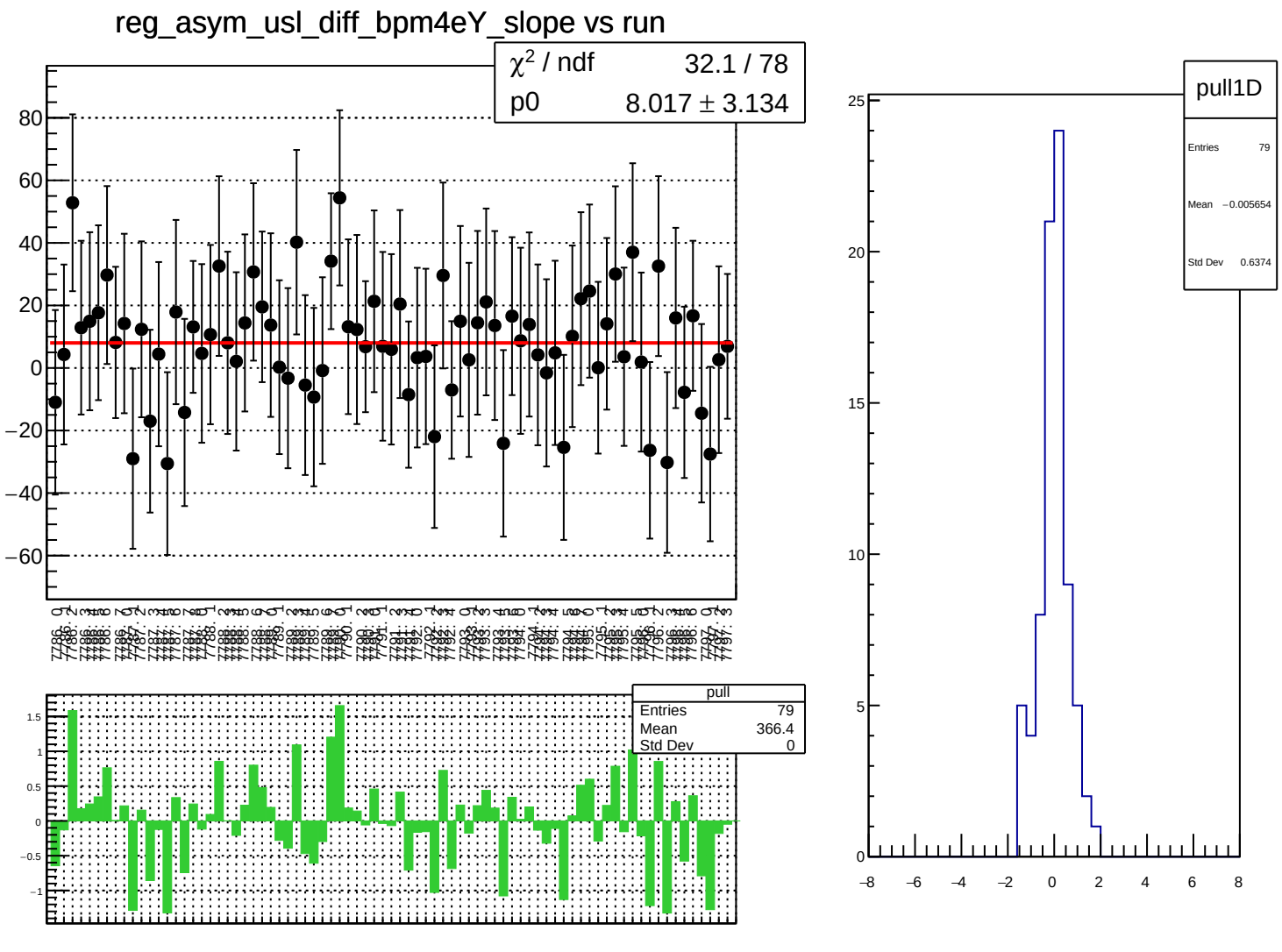

pull1D
Entries 79
Mean 0.0007273
Std Dev 0.6135

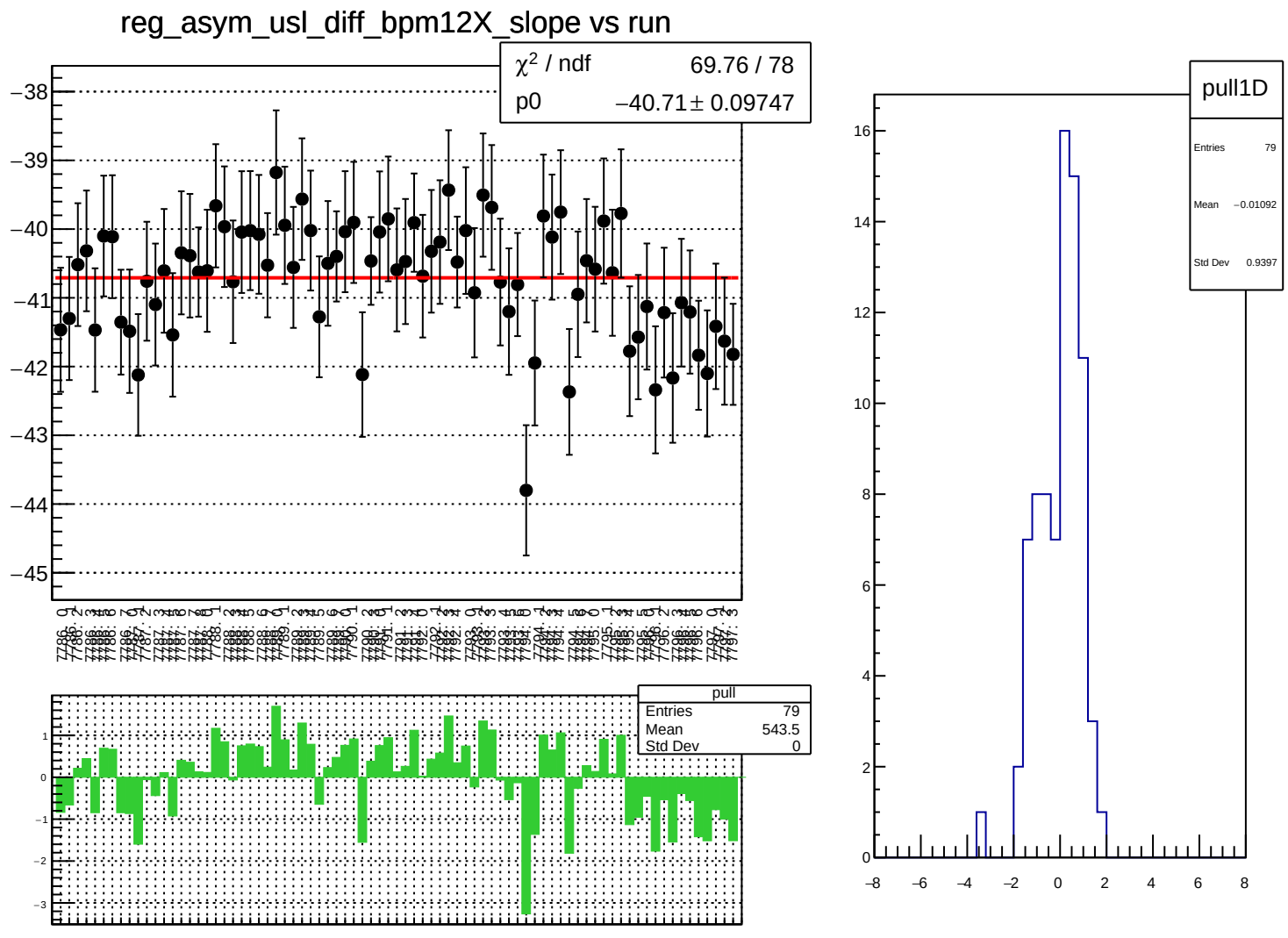

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 33.15 / 78
p0 13.49 ± 2.764
pull
Entries 79
Mean 427.7
Std Dev 0

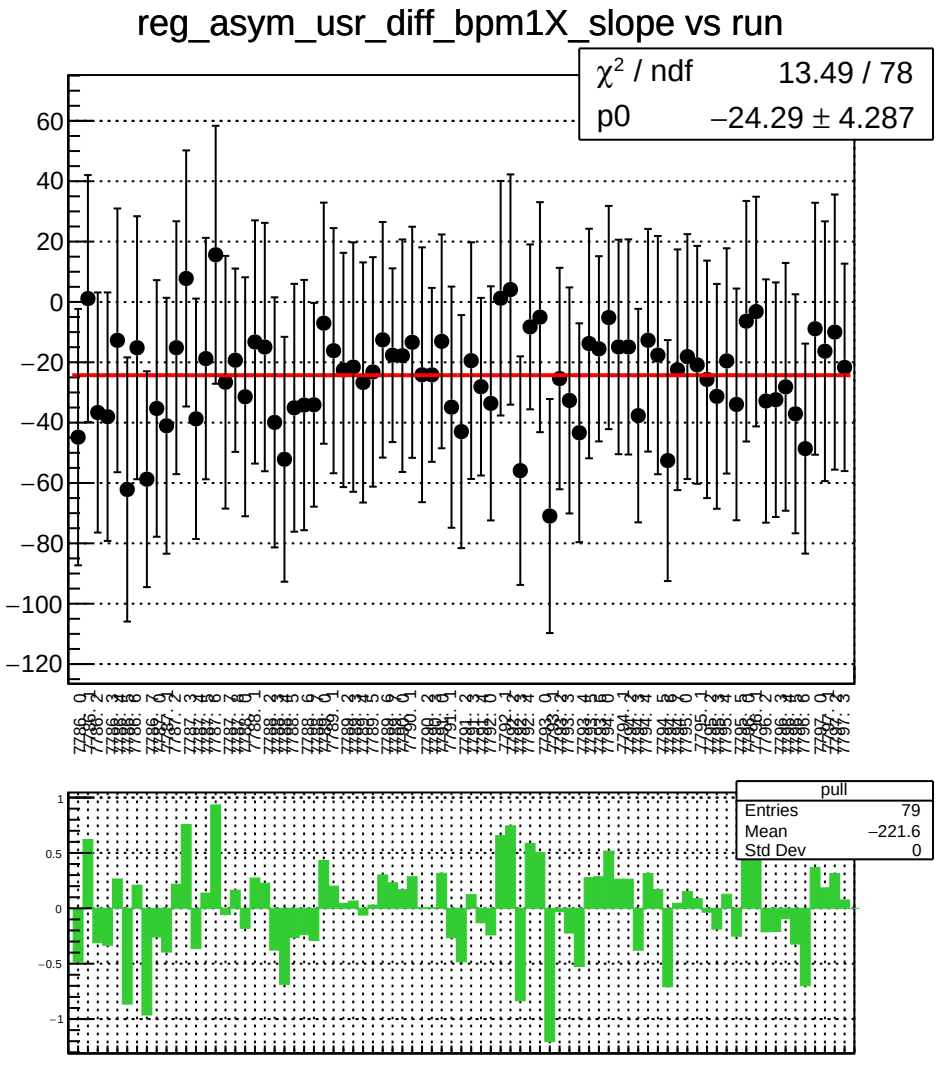

pull1D
Entries 79
Mean 0.005769
Std Dev 0.6478

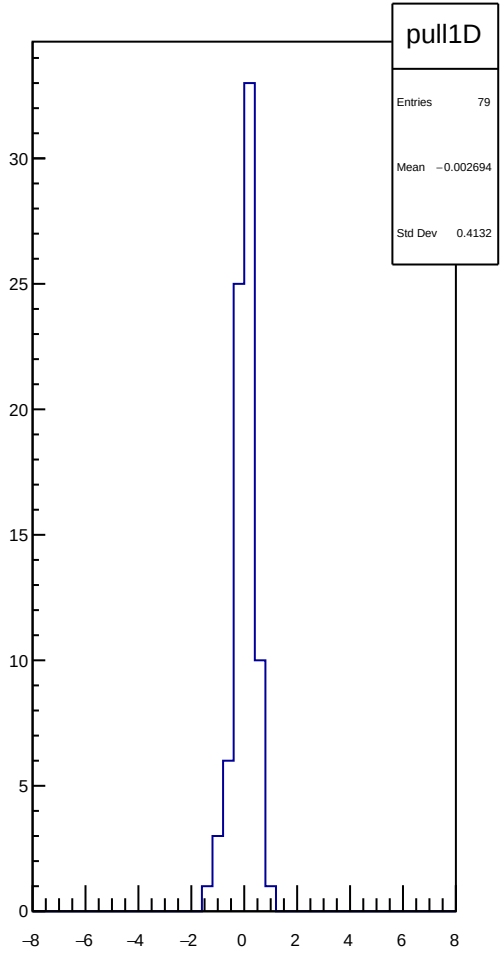

reg_asym_usl_diff_bpm4eX_slope vs run
χ^2 / ndf 29.51 / 78
p0 −12.39 ± 2.37
pull
Entries 79
Mean 3202
Std Dev 0

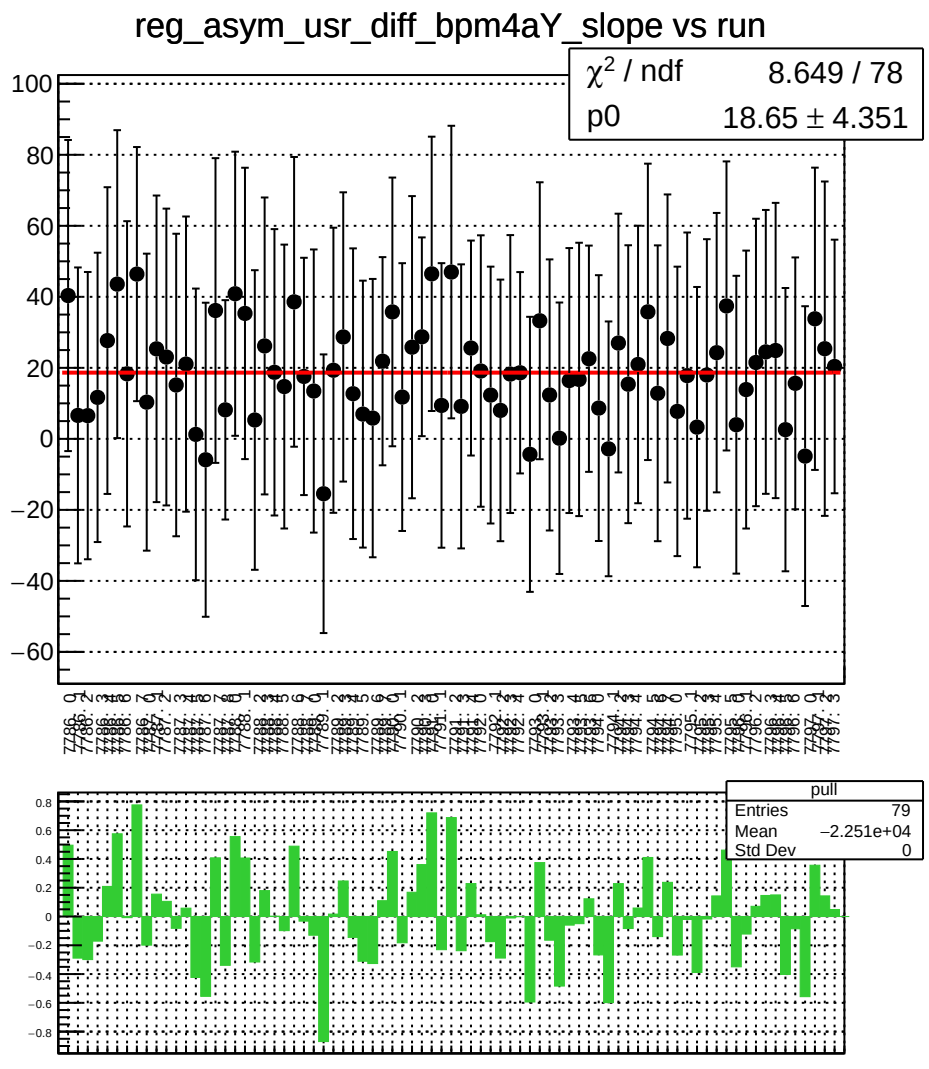

pull1D
Entries 79
Mean −0.0006839
Std Dev 0.6112

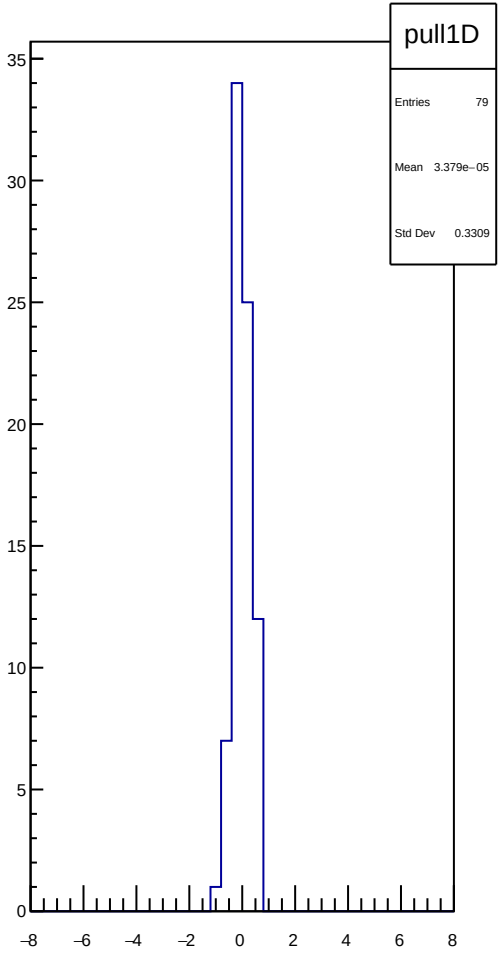

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 32.1 / 78
p0 8.017 ± 3.134
pull
Entries 79
Mean 366.4
Std Dev 0
pull1D
Entries 79
Mean −0.005654
Std Dev 0.6374

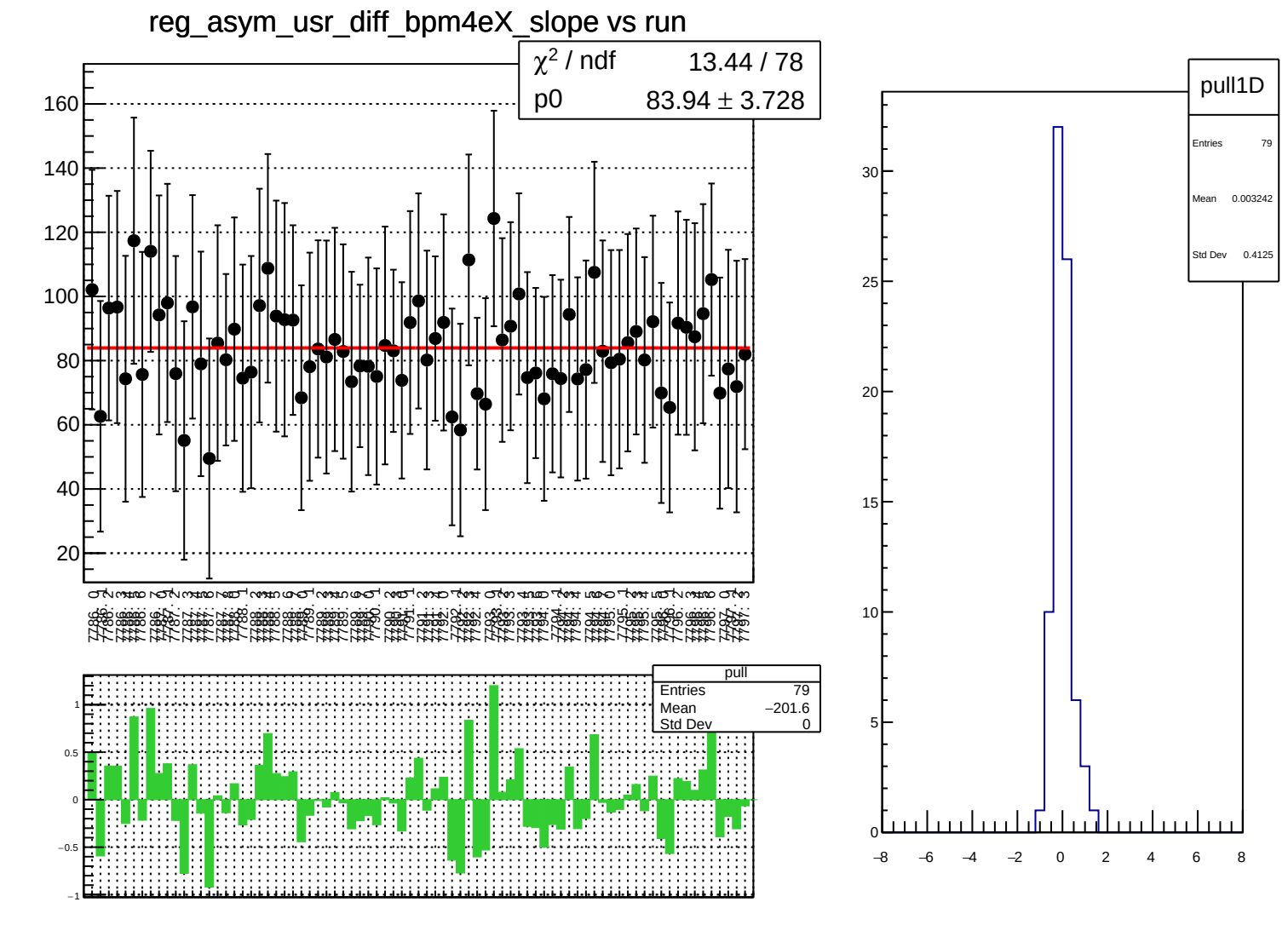

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 69.76 / 78
p0 −40.71 ± 0.09747
−38
−39
−40
−41
−42
−43
−44
−45
pull
Entries 79
Mean 543.5
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 79
Mean −0.01092
Std Dev 0.9397
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

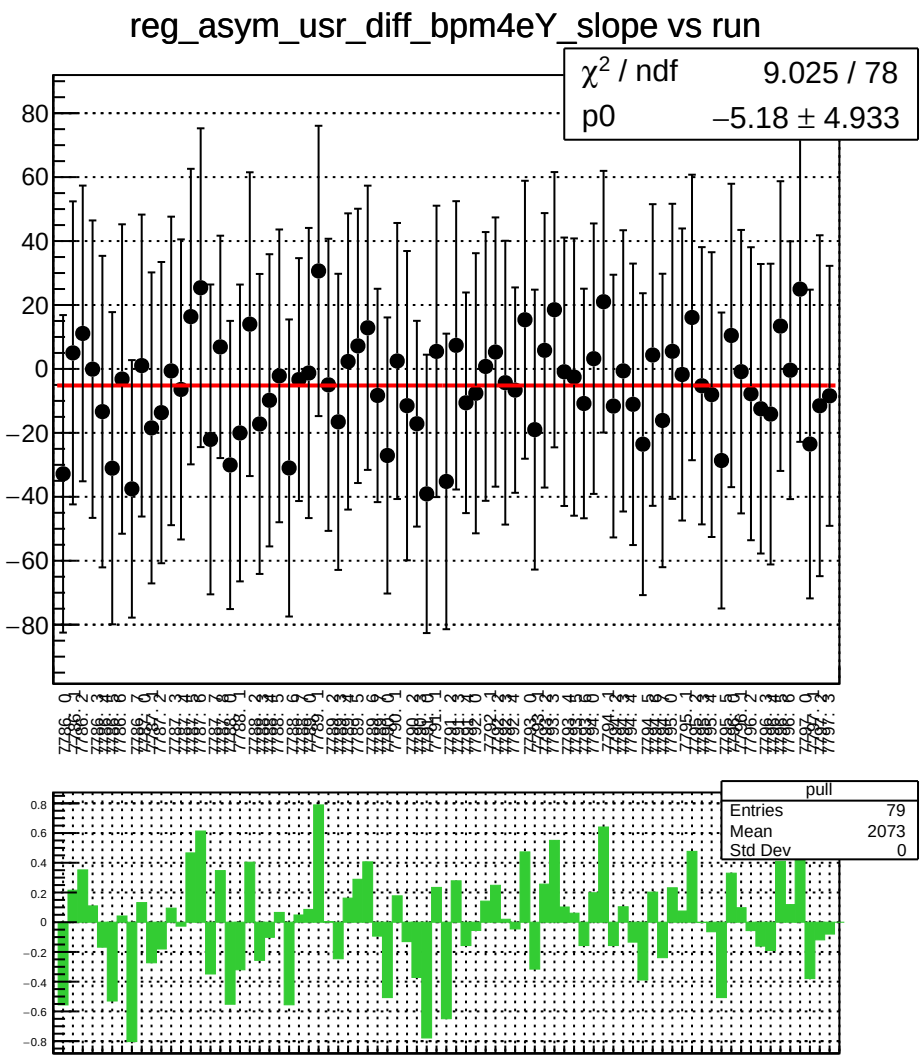

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 13.49 / 78
p0 −24.29 ± 4.287
pull
Entries 79
Mean −221.6
Std Dev 0

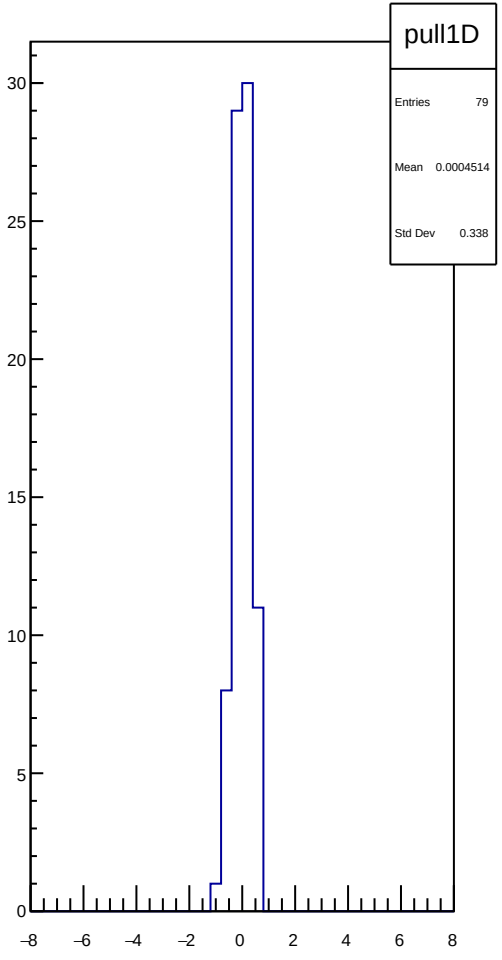

pull1D
Entries 79
Mean −0.002694
Std Dev 0.4132

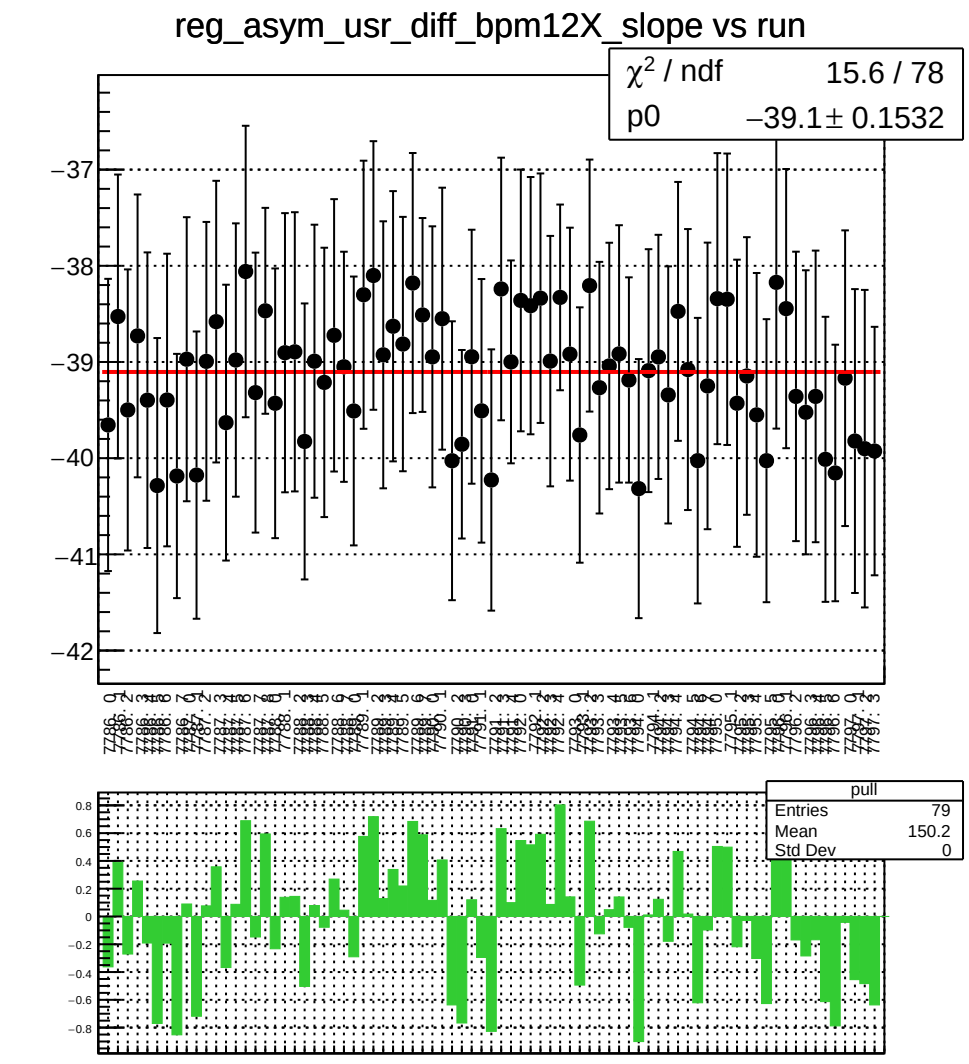

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 8.649 / 78
p0 18.65 ± 4.351
pull
Entries 79
Mean −2.251e+04
Std Dev 0

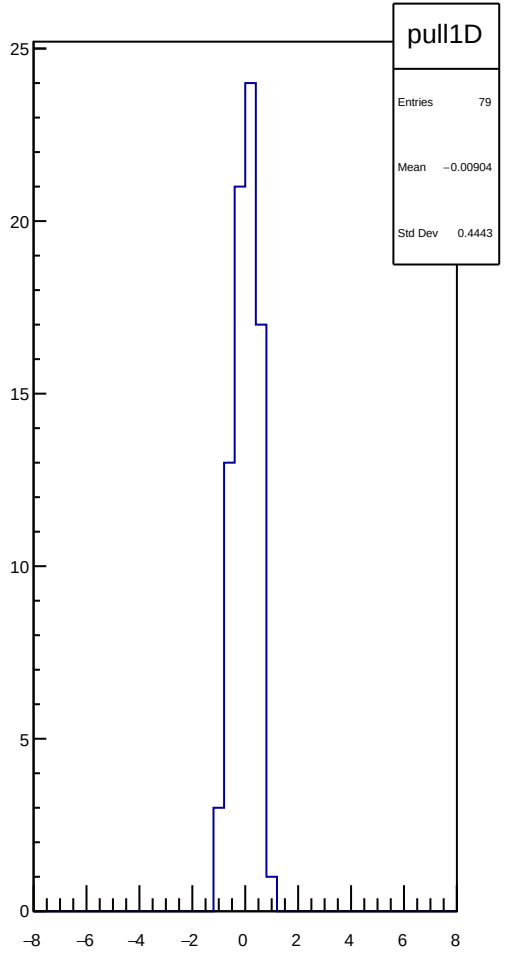

pull1D
Entries 79
Mean 3.379e−05
Std Dev 0.3309

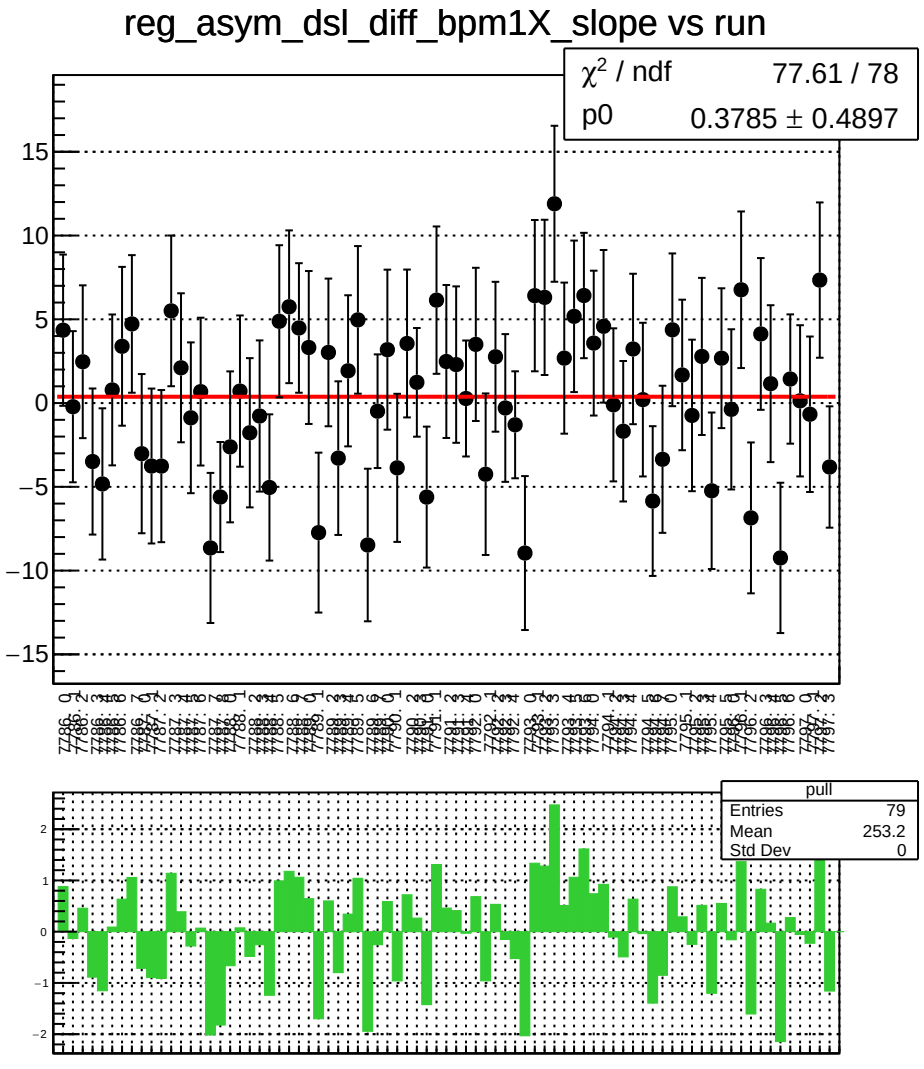

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 13.44 / 78
p0 83.94 ± 3.728
pull
Entries 79
Mean −201.6
Std Dev 0
pull1D
Entries 79
Mean 0.003242
Std Dev 0.4125

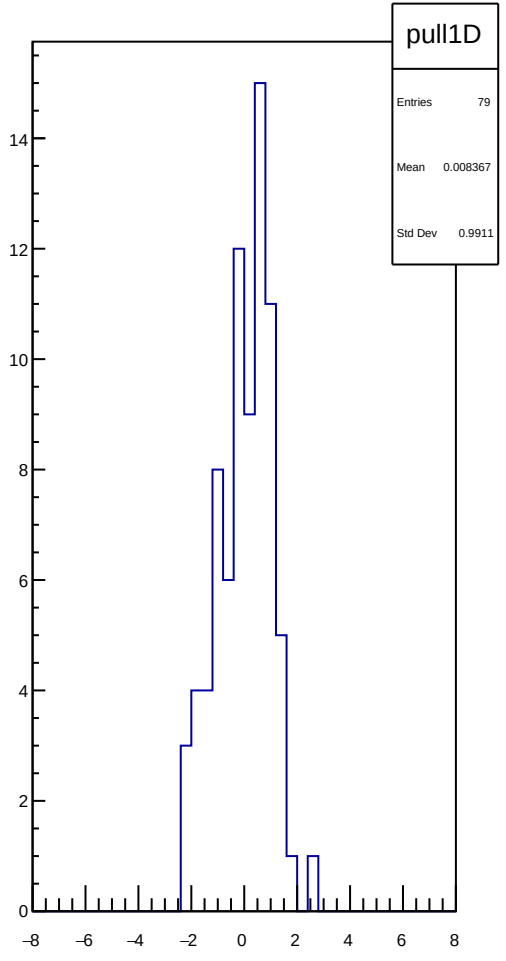

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 9.025 / 78
p0 −5.18 ± 4.933
pull
Entries 79
Mean 2073
Std Dev 0

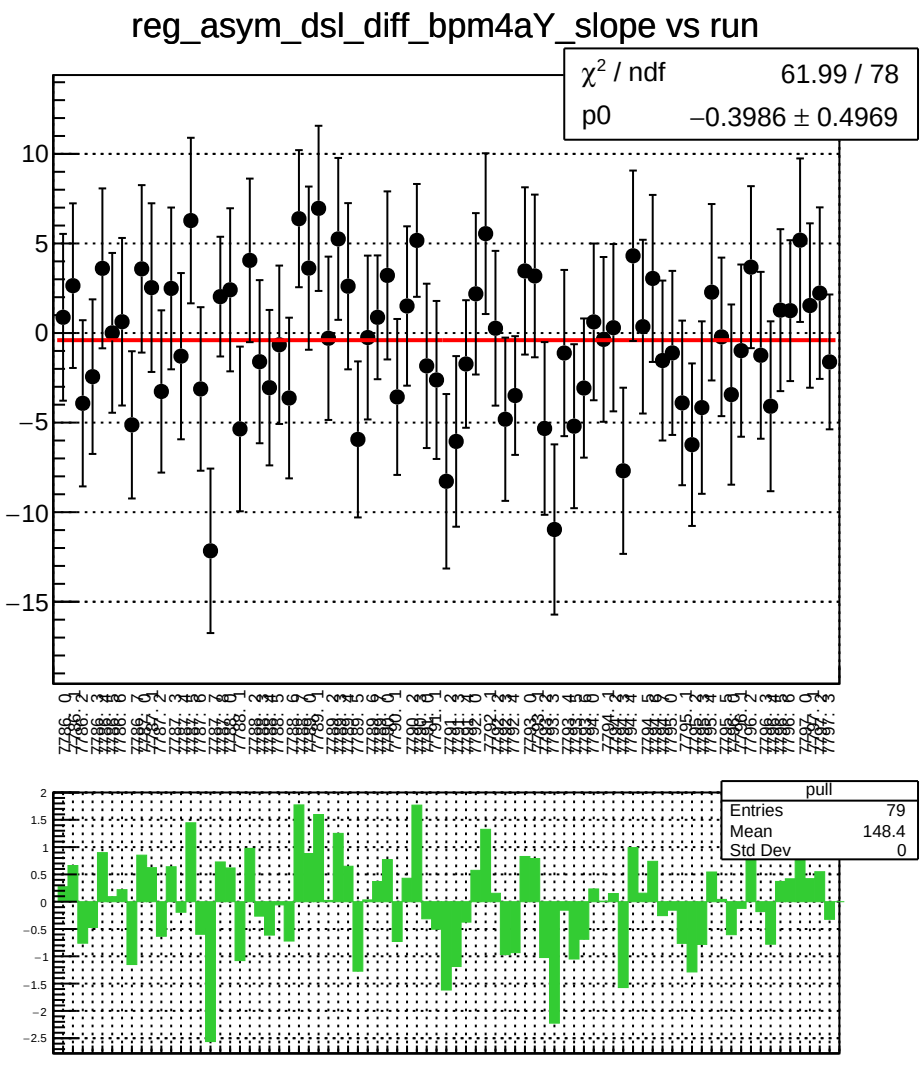

pull1D
Entries 79
Mean 0.0004514
Std Dev 0.338

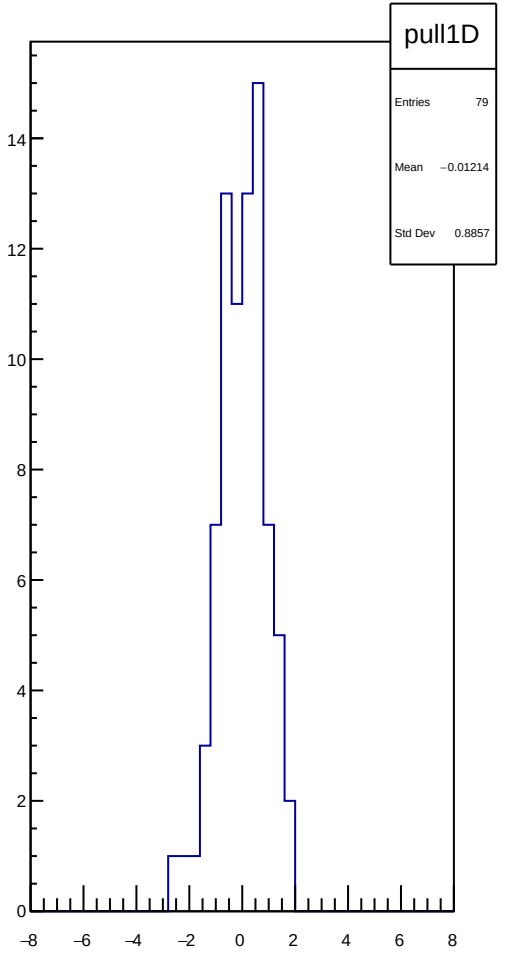

reg_asym_usr_diff_bpm12X_slope vs run
χ^2 / ndf 15.6 / 78
p0 −39.1 ± 0.1532
−37
−38
−39
−40
−41
−42
pull
Entries 79
Mean 150.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

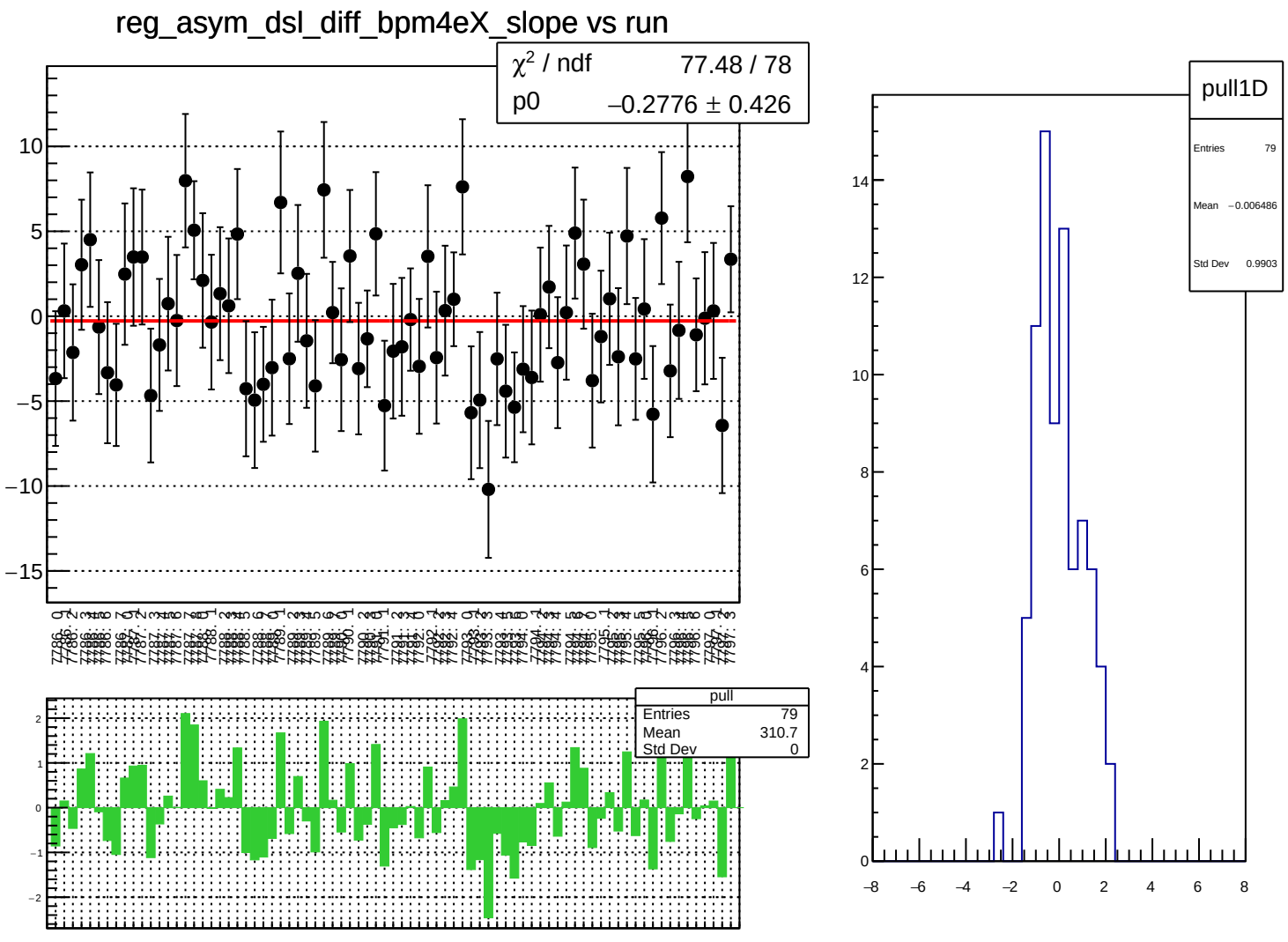

pull1D
Entries 79
Mean −0.00904
Std Dev 0.4443
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

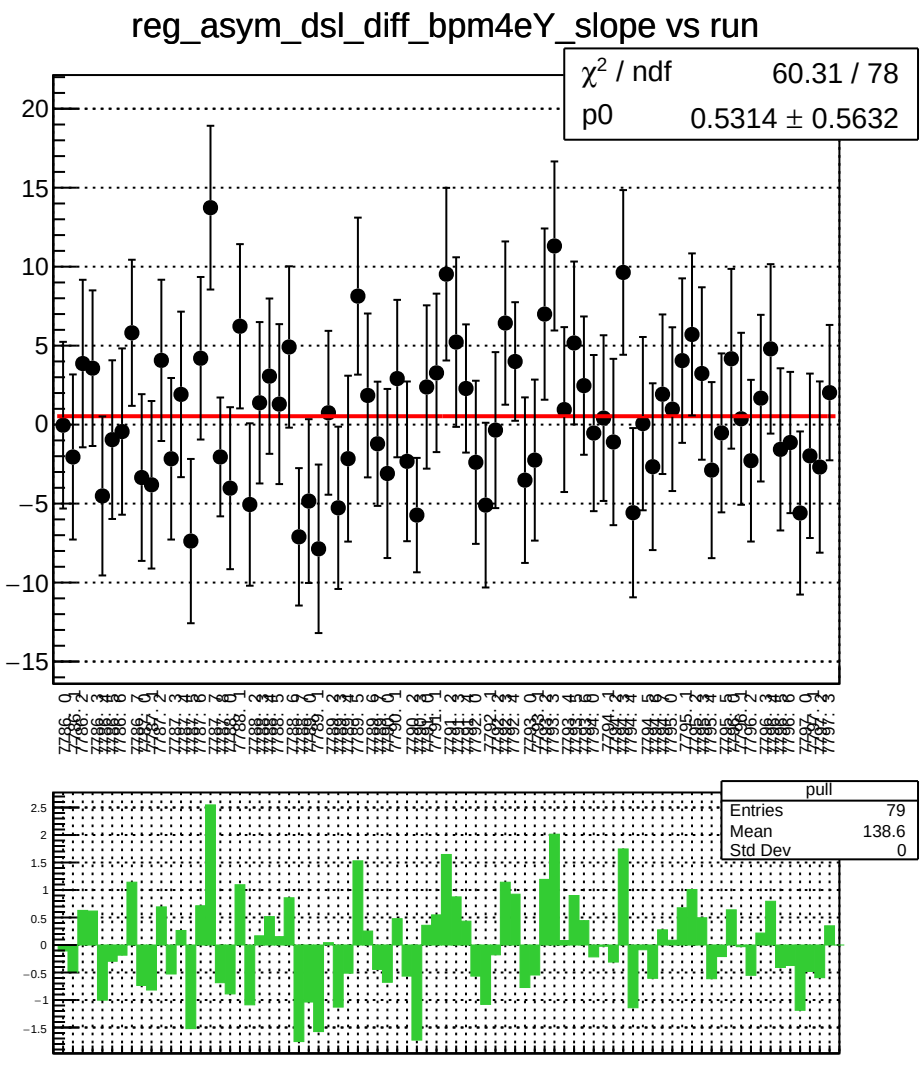

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 77.61 / 78
p0 0.3785 ± 0.4897
pull
Entries 79
Mean 253.2
Std Dev 0

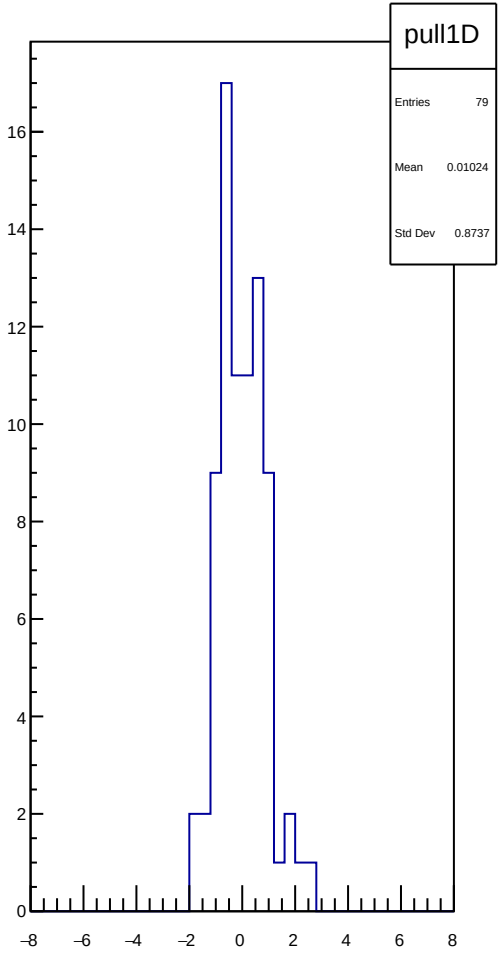

pull1D
Entries 79
Mean 0.008367
Std Dev 0.9911

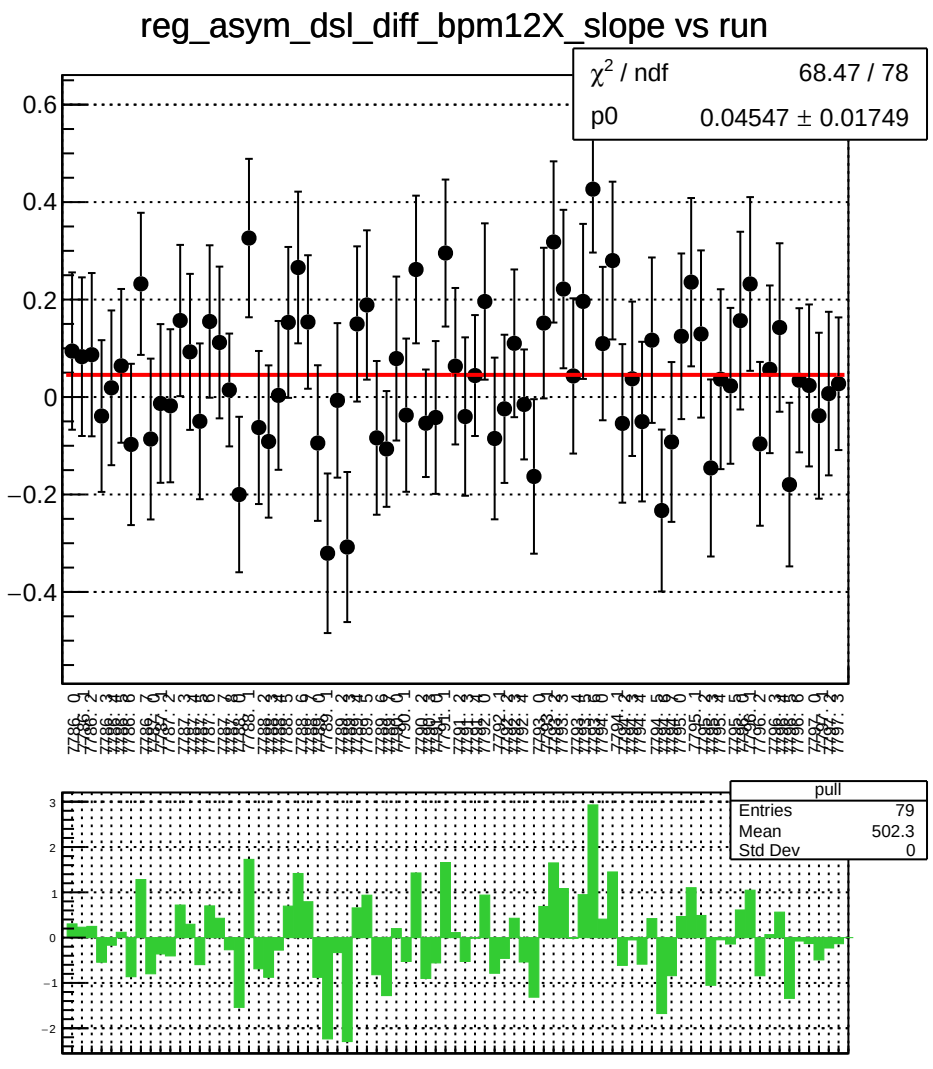

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 61.99 / 78
p0 −0.3986 ± 0.4969
pull
Entries 79
Mean 148.4
Std Dev 0

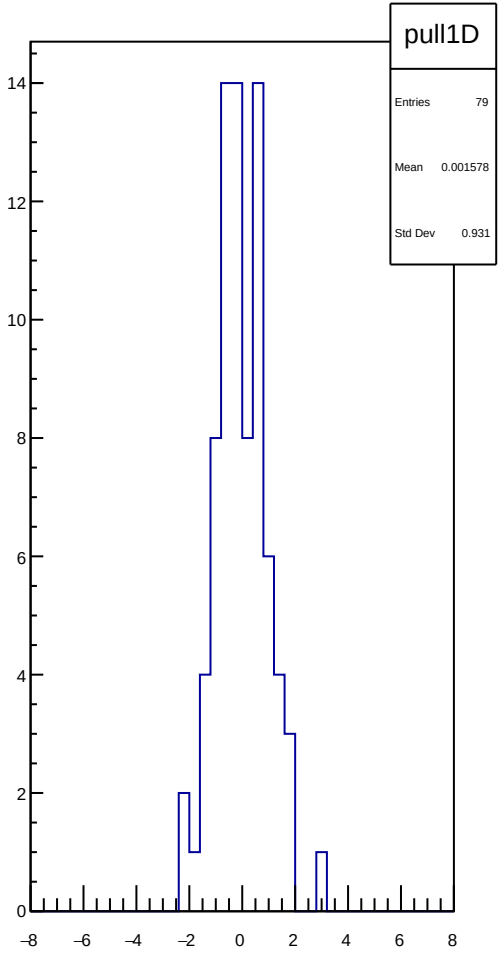

pull1D
Entries 79
Mean −0.01214
Std Dev 0.8857

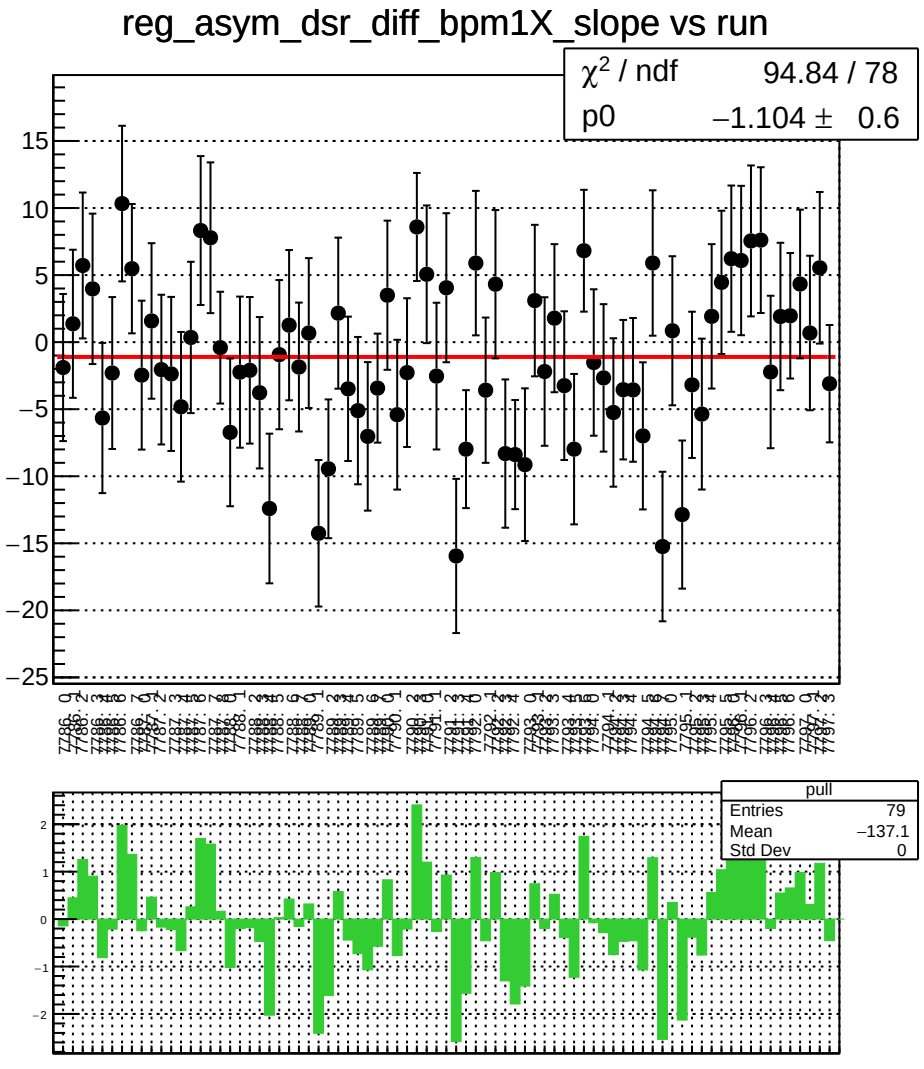

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 77.48 / 78
p0 −0.2776 ± 0.426
pull
Entries 79
Mean 310.7
Std Dev 0
pull1D
Entries 79
Mean −0.006486
Std Dev 0.9903

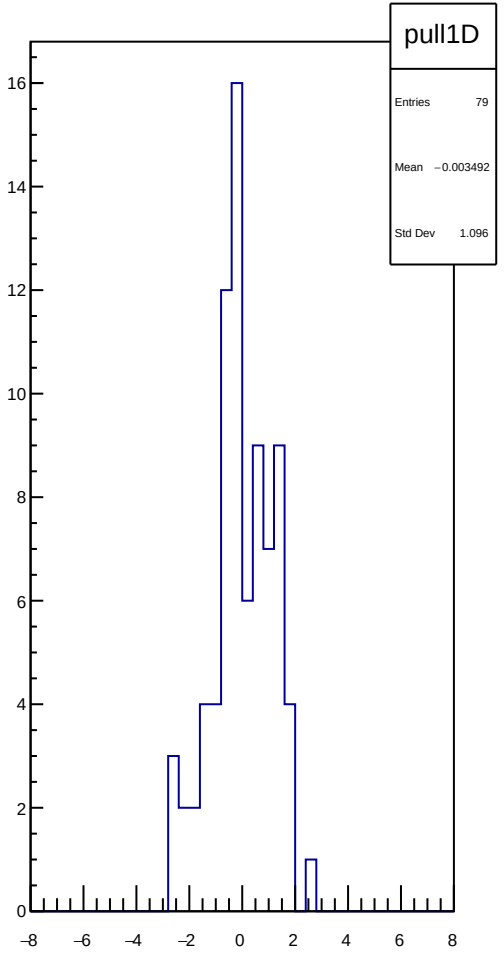

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 60.31 / 78
p0 0.5314 ± 0.5632
pull
Entries 79
Mean 138.6
Std Dev 0

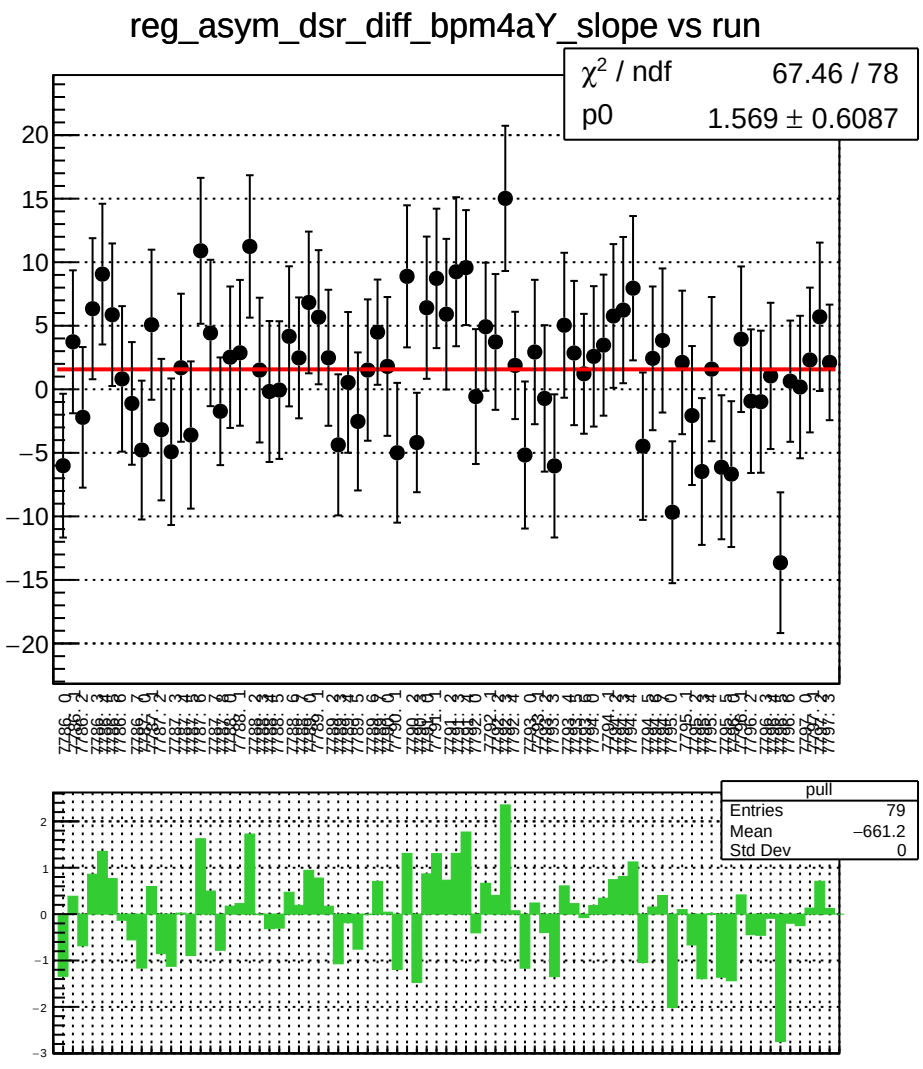

pull1D
Entries 79
Mean 0.01024
Std Dev 0.8737

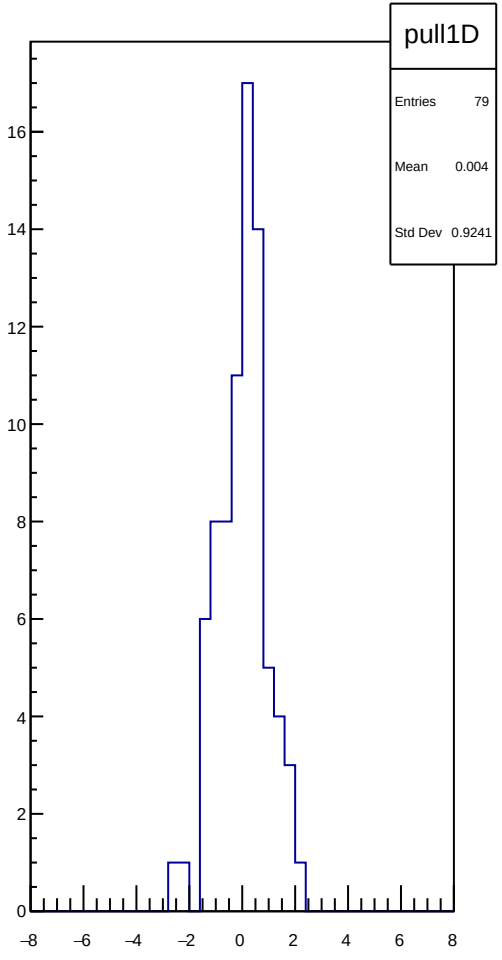

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 68.47 / 78
p0 0.04547 ± 0.01749
pull
Entries 79
Mean 502.3
Std Dev 0

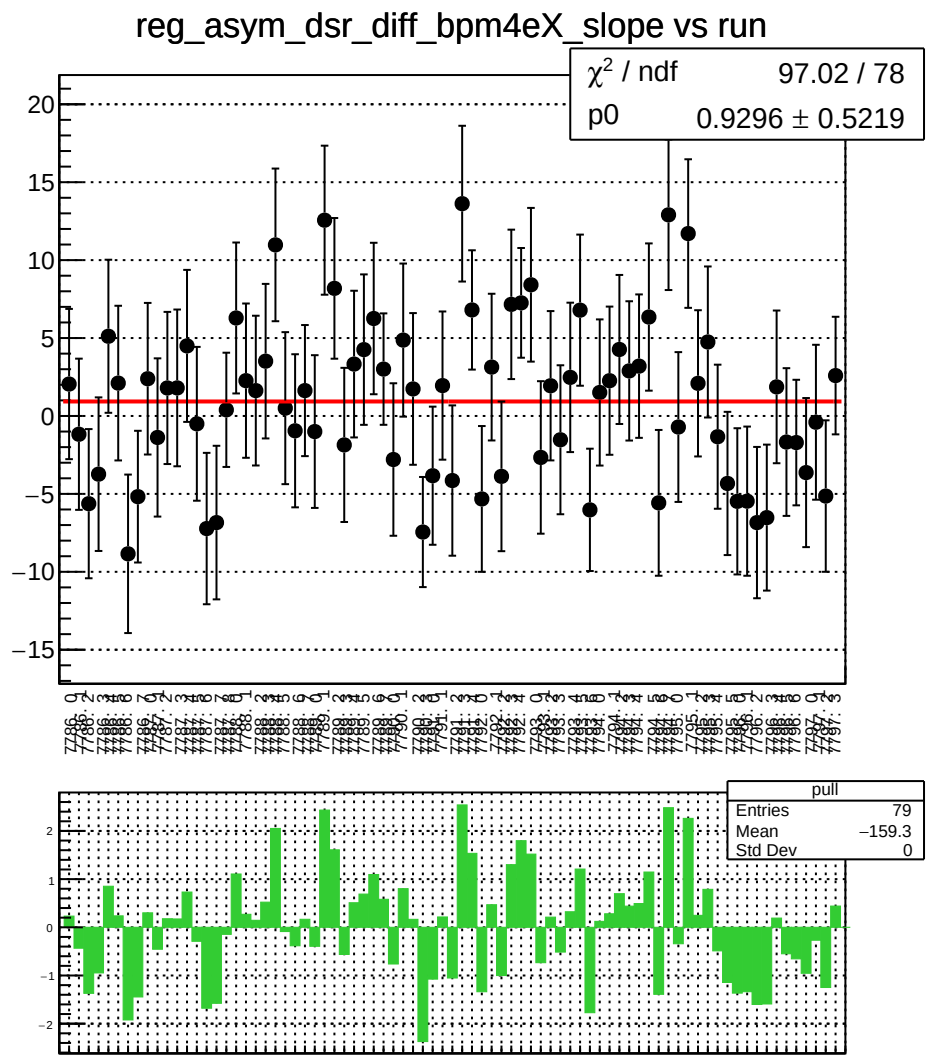

pull1D
Entries 79
Mean 0.001578
Std Dev 0.931

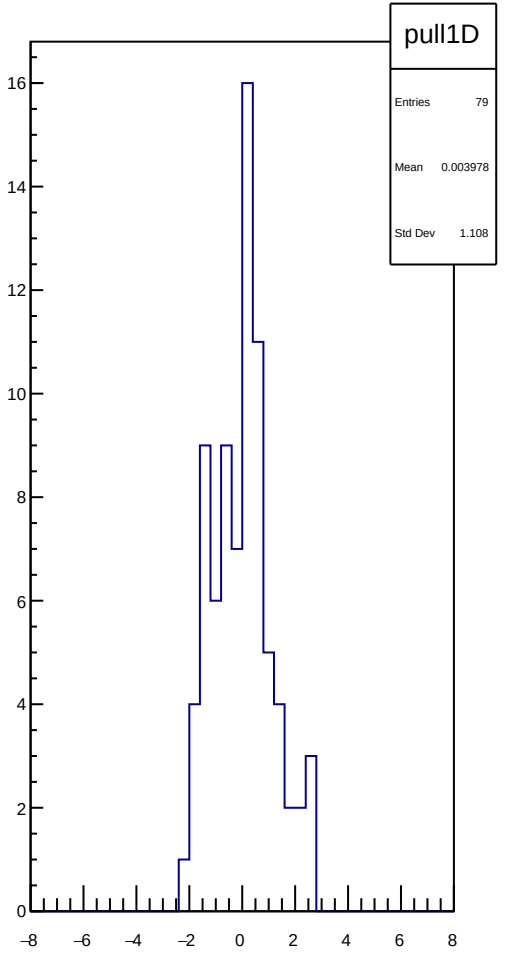

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 94.84 / 78
p0 −1.104 ± 0.6
pull
Entries 79
Mean −137.1
Std Dev 0

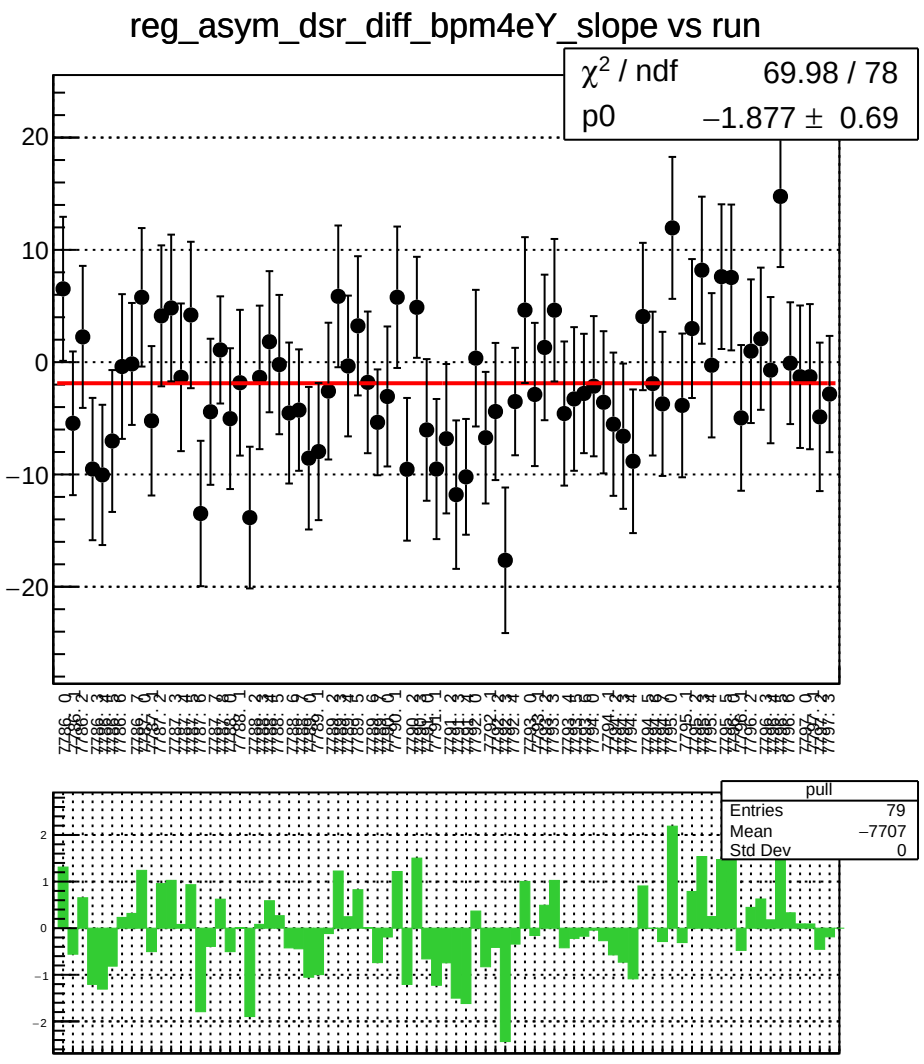

pull1D
Entries 79
Mean −0.003492
Std Dev 1.096

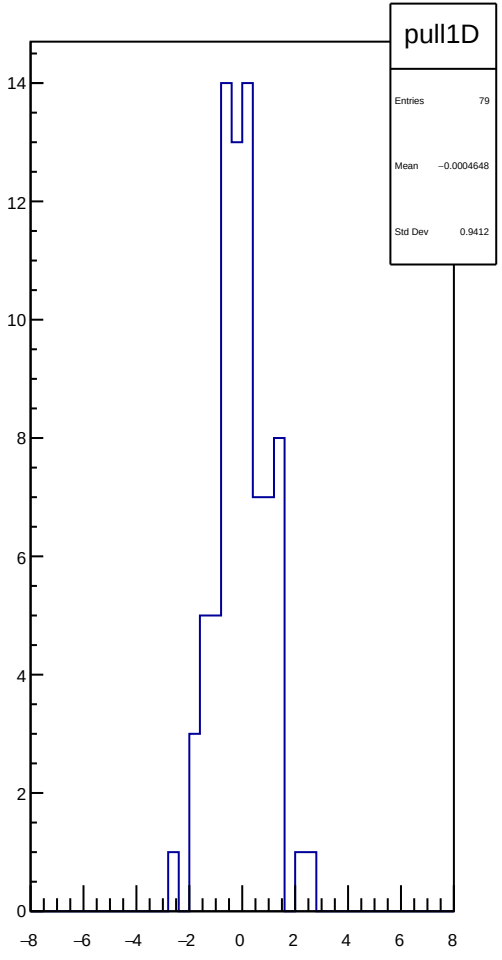

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 67.46 / 78
p0 1.569 ± 0.6087
pull
Entries 79
Mean −661.2
Std Dev 0

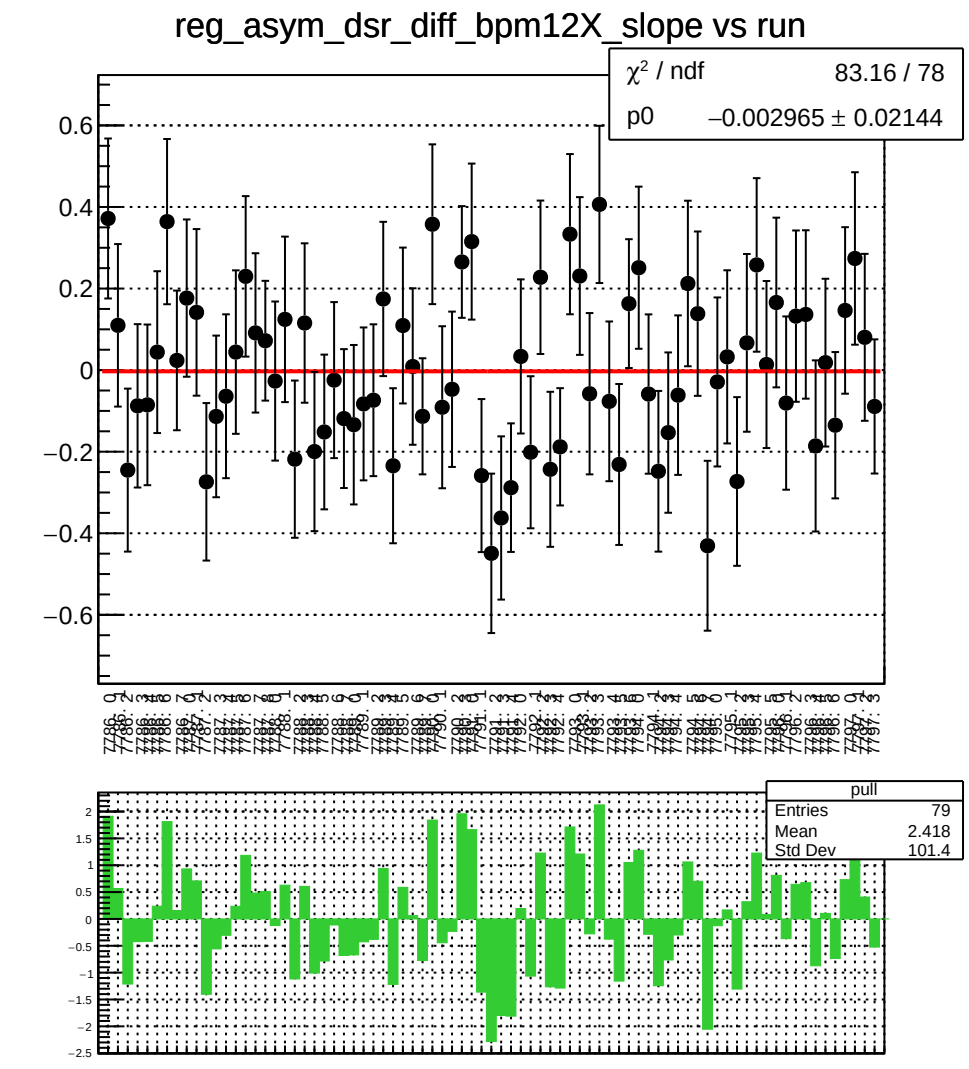

pull1D
Entries 79
Mean 0.004
Std Dev 0.9241

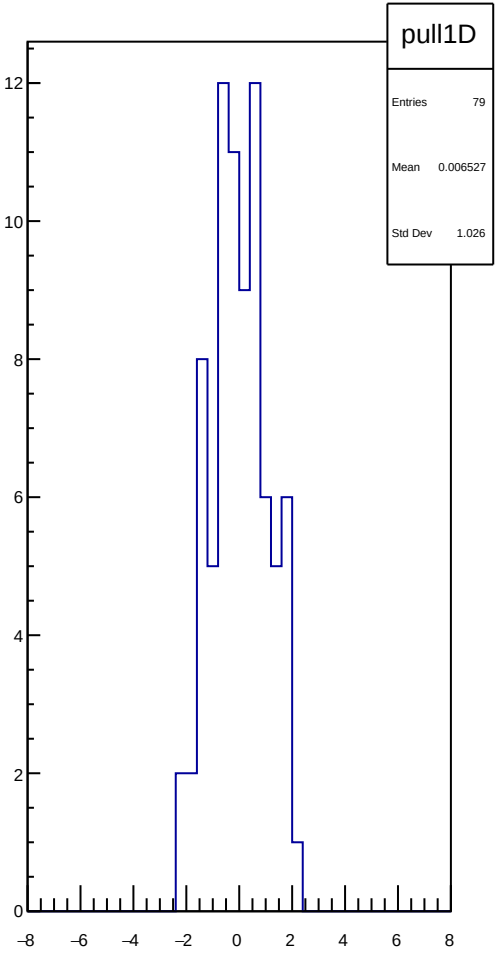

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 97.02 / 78
p0 0.9296 ± 0.5219
pull
Entries 79
Mean −159.3
Std Dev 0

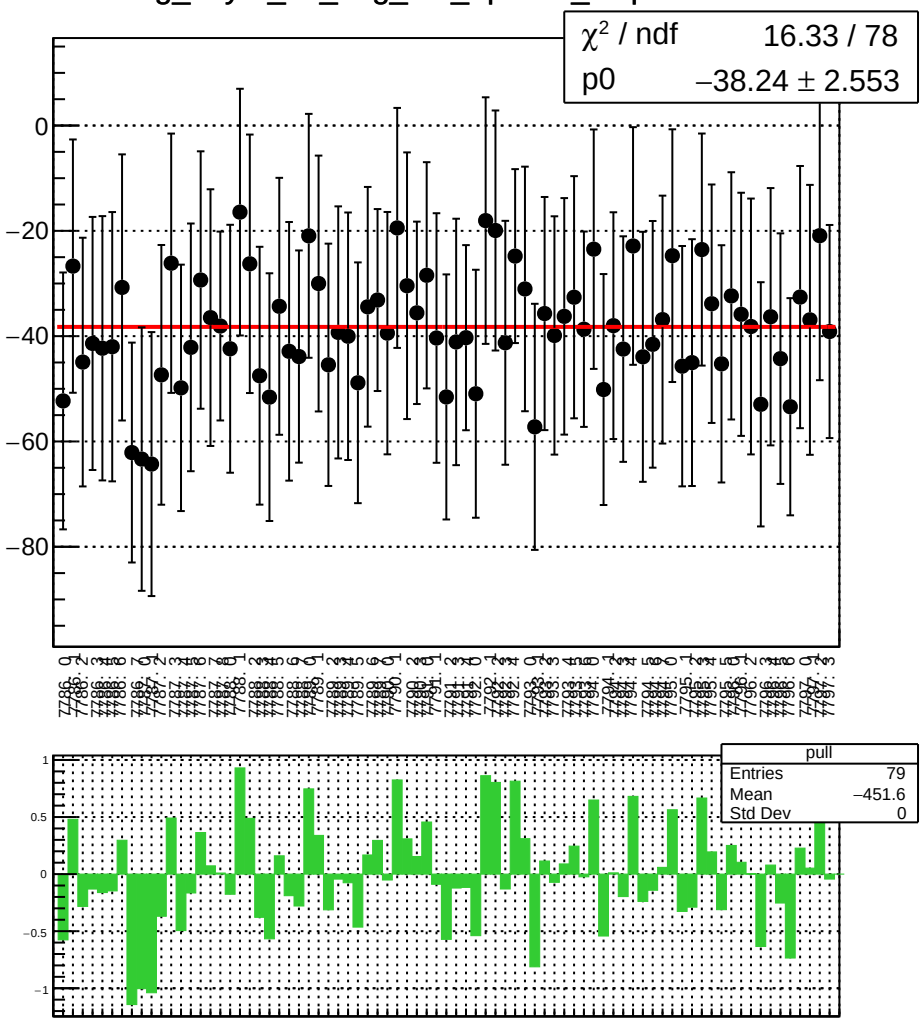

pull1D
Entries 79
Mean 0.003978
Std Dev 1.108

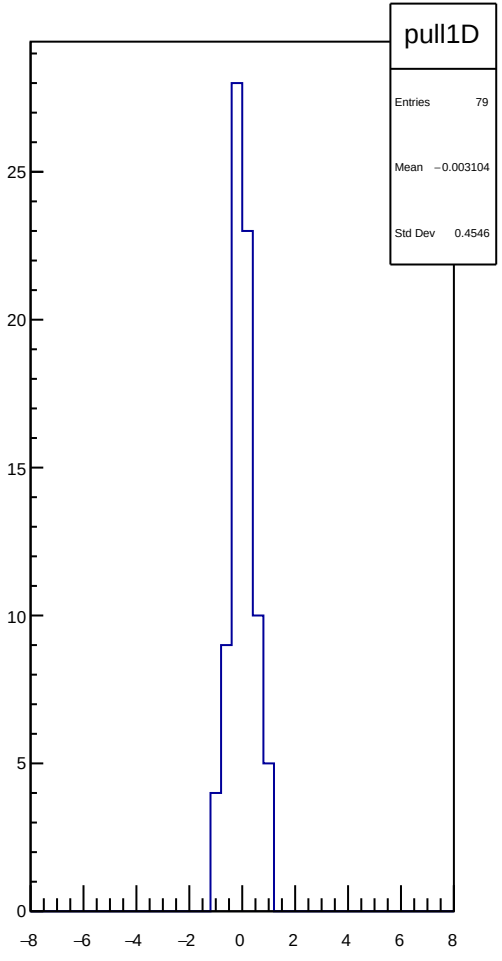

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 69.98 / 78
p0 −1.877 ± 0.69
pull
Entries 79
Mean −7707
Std Dev 0

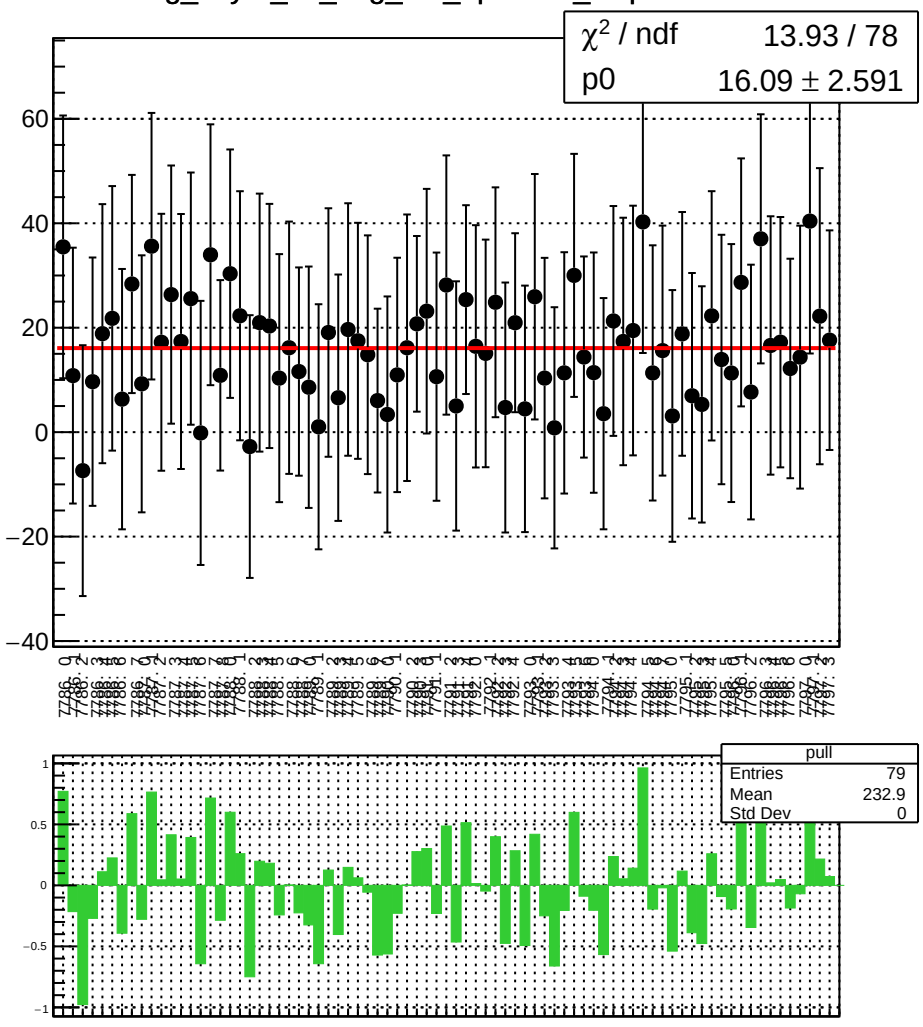

pull1D
Entries 79
Mean −0.0004648
Std Dev 0.9412

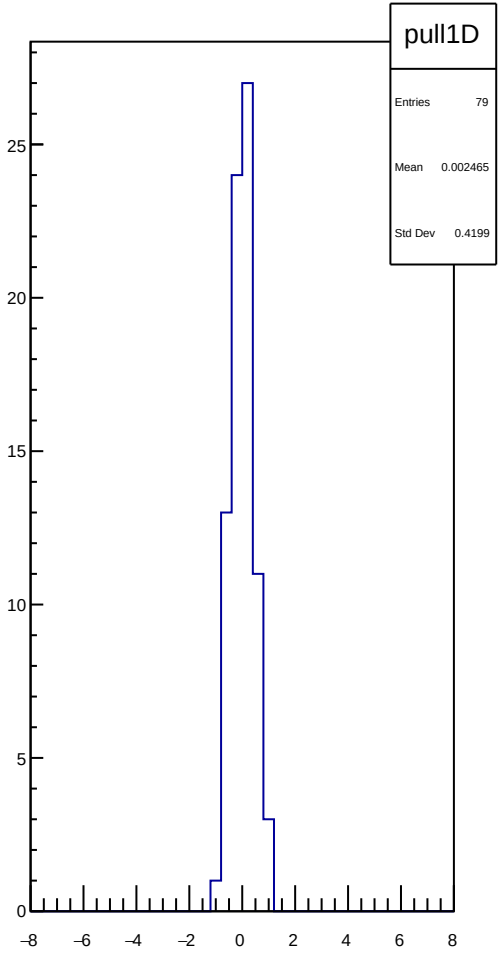

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 83.16 / 78
p0 −0.002965 ± 0.02144
pull
Entries 79
Mean 2.418
Std Dev 101.4

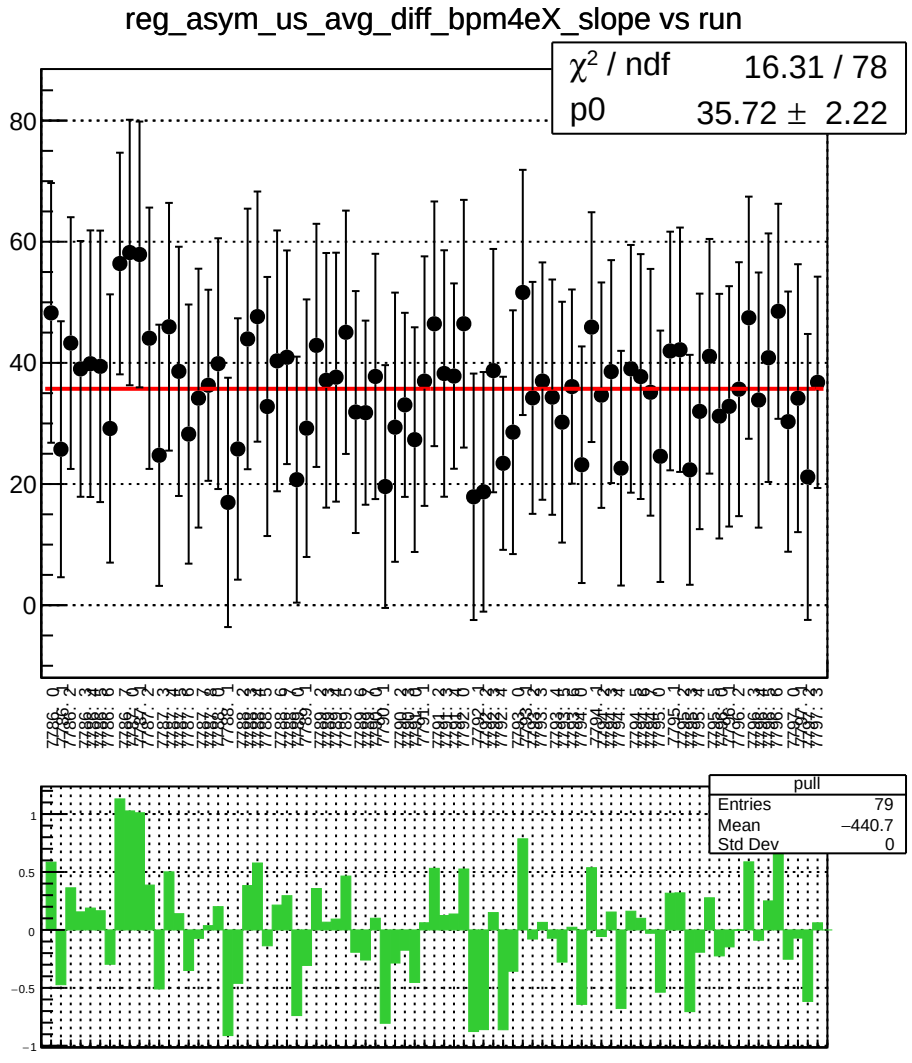

pull1D
Entries 79
Mean 0.006527
Std Dev 1.026

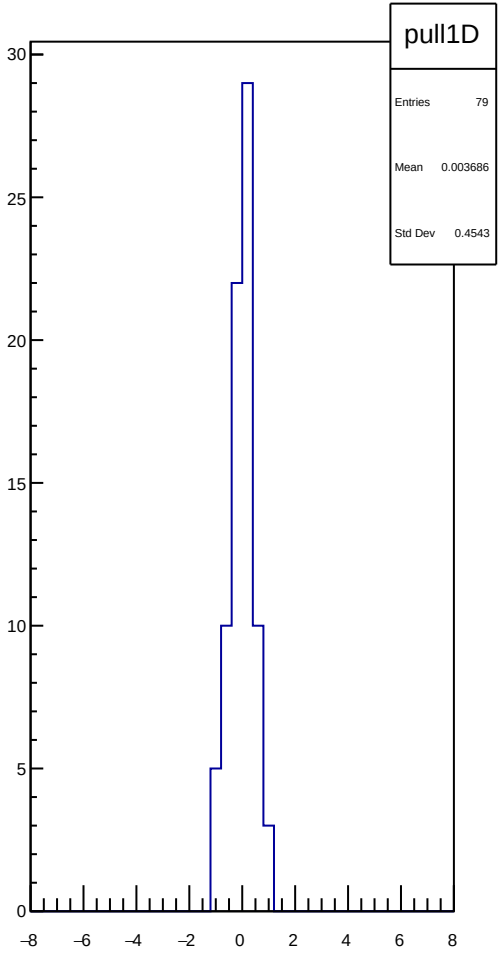

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 16.33 / 78
p0 −38.24 ± 2.553
0
−20
−40
−60
−80
pull
Entries 79
Mean −451.6
Std Dev 0
1
0.5
0
−0.5
−1

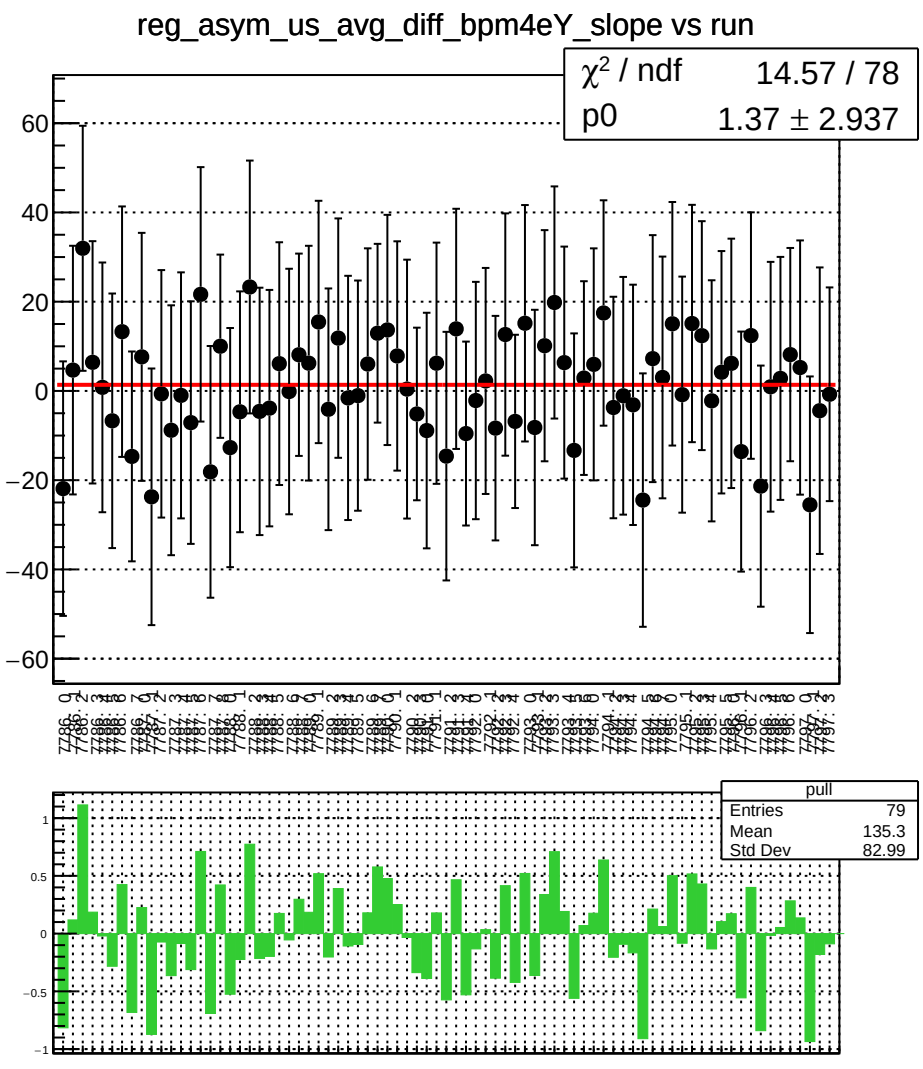

pull1D
Entries 79
Mean −0.003104
Std Dev 0.4546
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

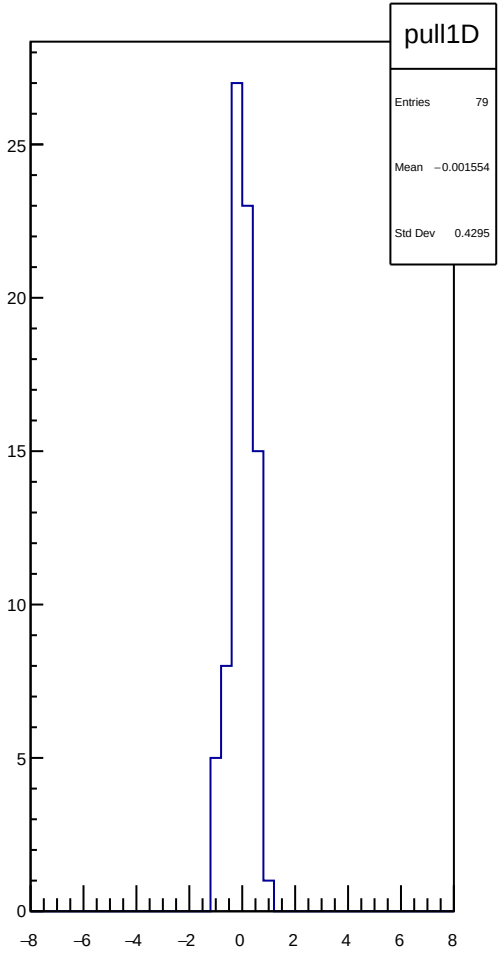

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.93 / 78
p0 16.09 ± 2.591
pull
Entries 79
Mean 232.9
Std Dev 0

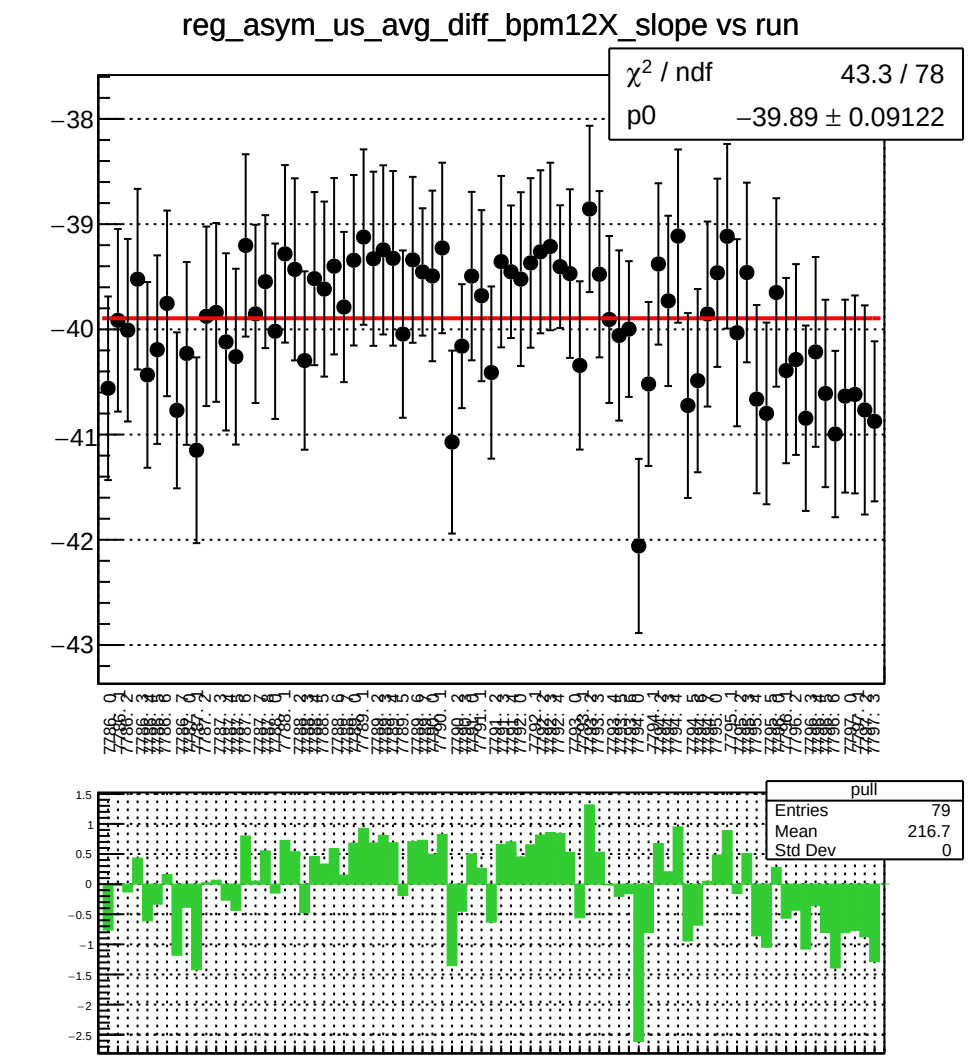

pull1D
Entries 79
Mean 0.002465
Std Dev 0.4199

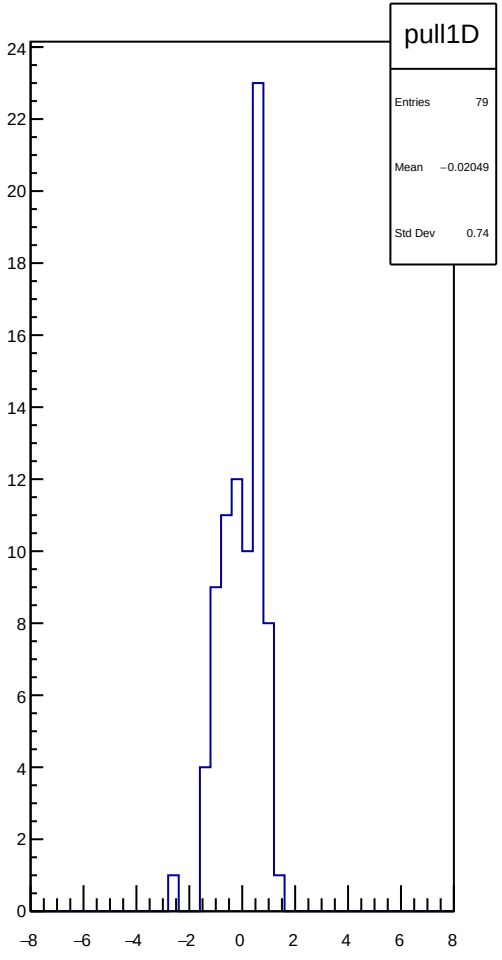

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.31 / 78
p0 35.72 ± 2.22
pull
Entries 79
Mean −440.7
Std Dev 0

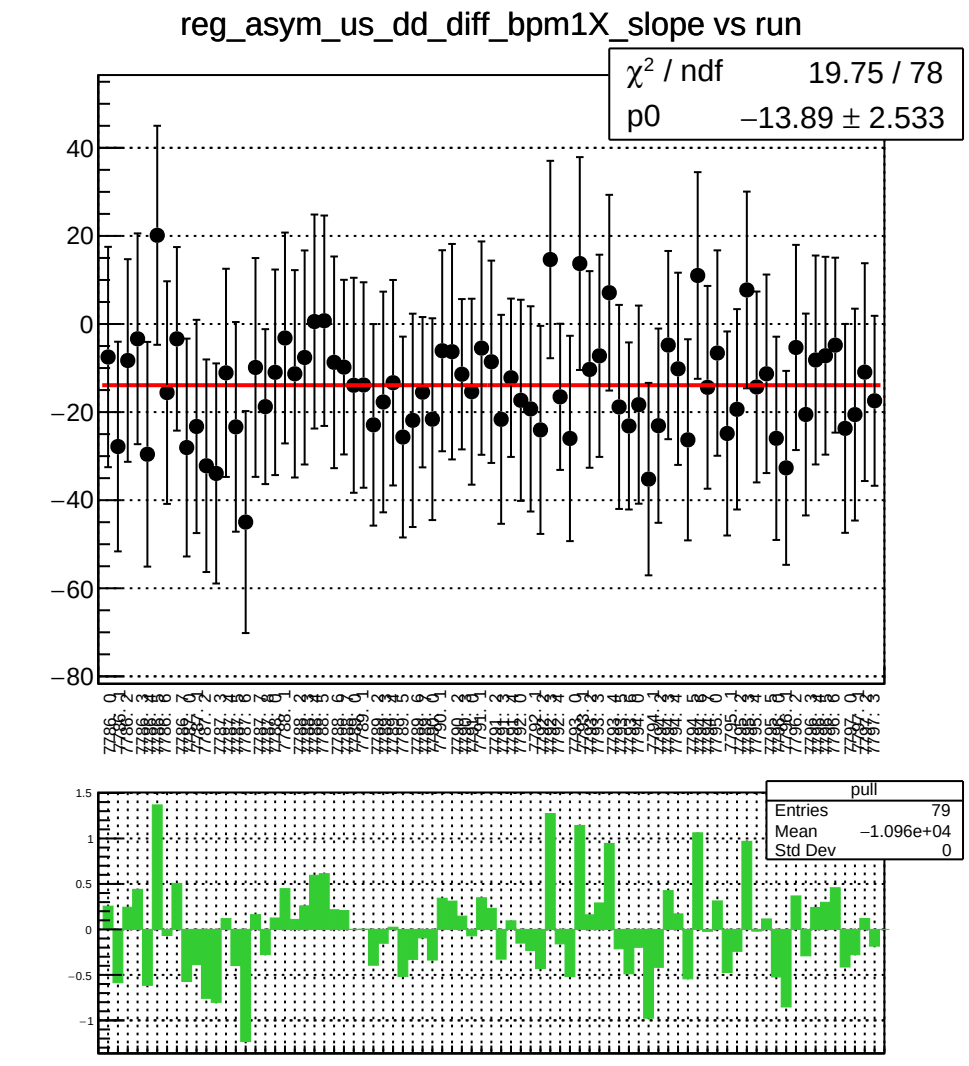

pull1D
Entries 79
Mean 0.003686
Std Dev 0.4543

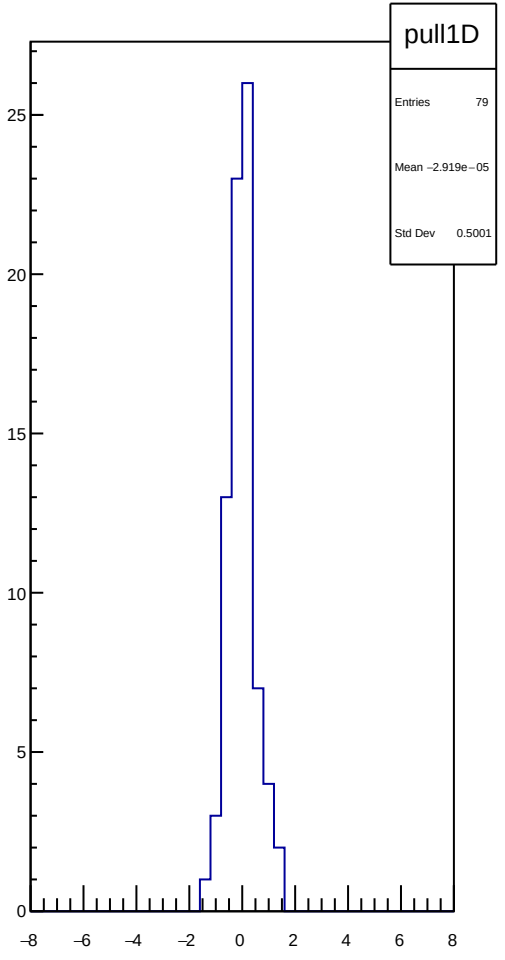

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.57 / 78
p0 1.37 ± 2.937
pull
Entries 79
Mean 135.3
Std Dev 82.99

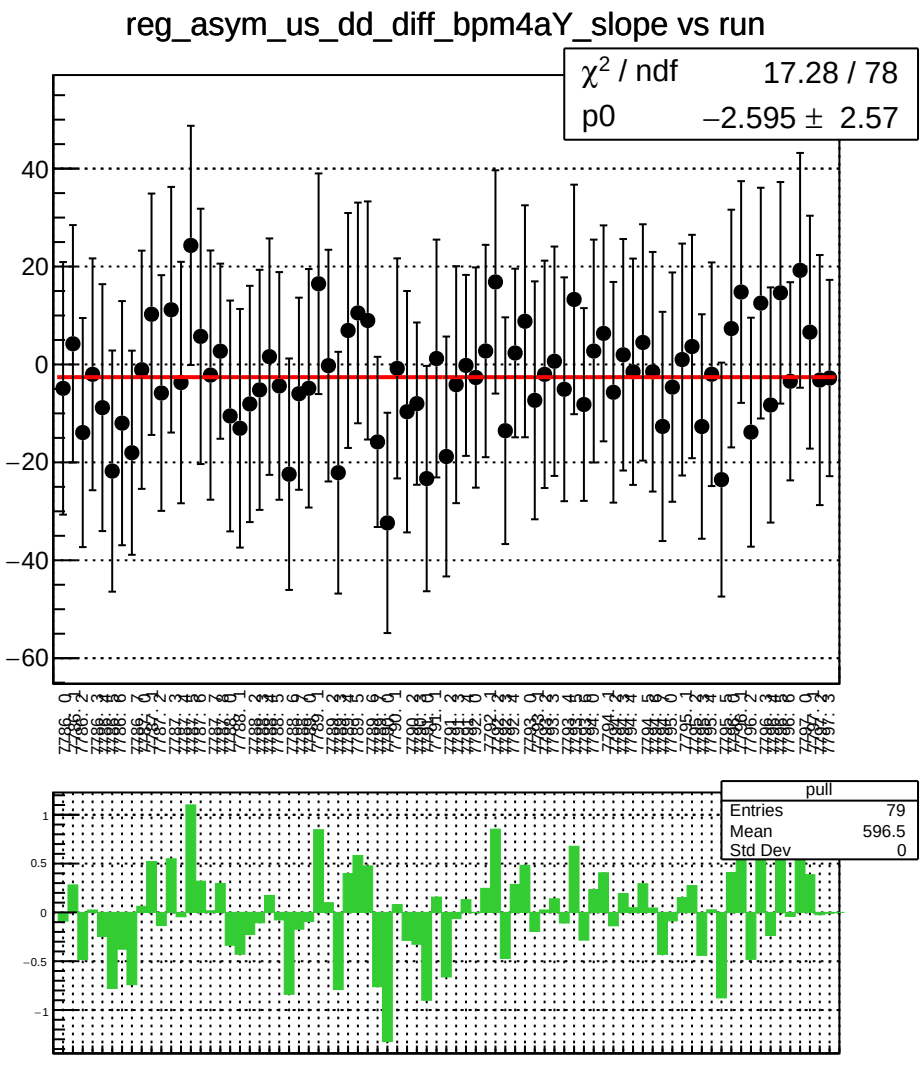

pull1D
Entries 79
Mean −0.001554
Std Dev 0.4295

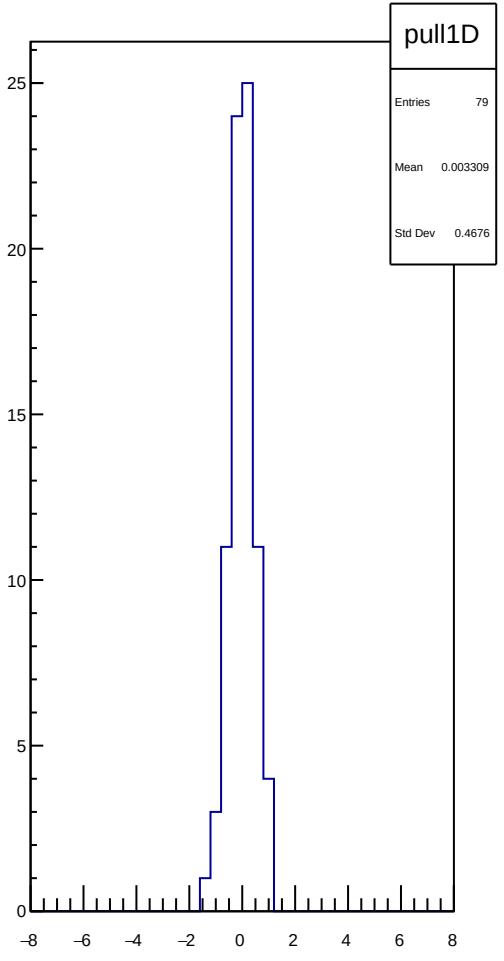

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 43.3 / 78
p0 −39.89 ± 0.09122
pull
Entries 79
Mean 216.7
Std Dev 0

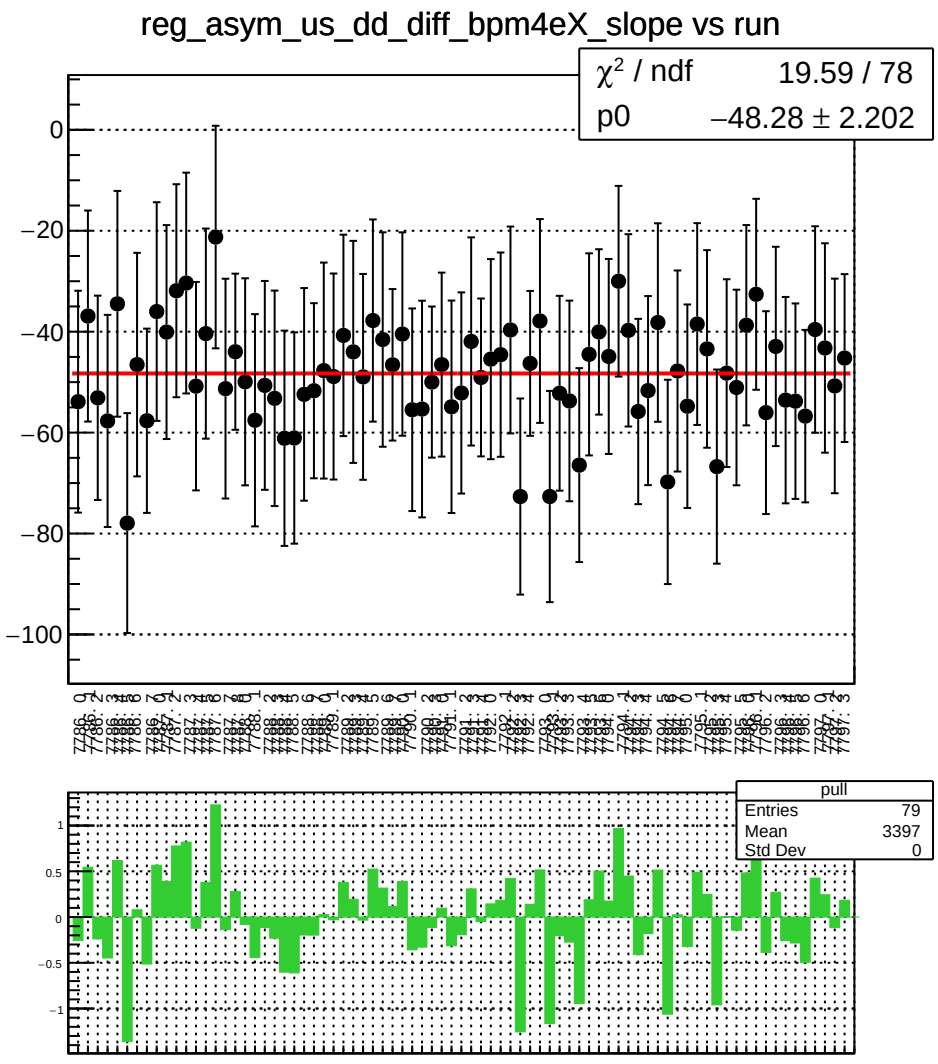

pull1D
Entries 79
Mean −0.02049
Std Dev 0.74

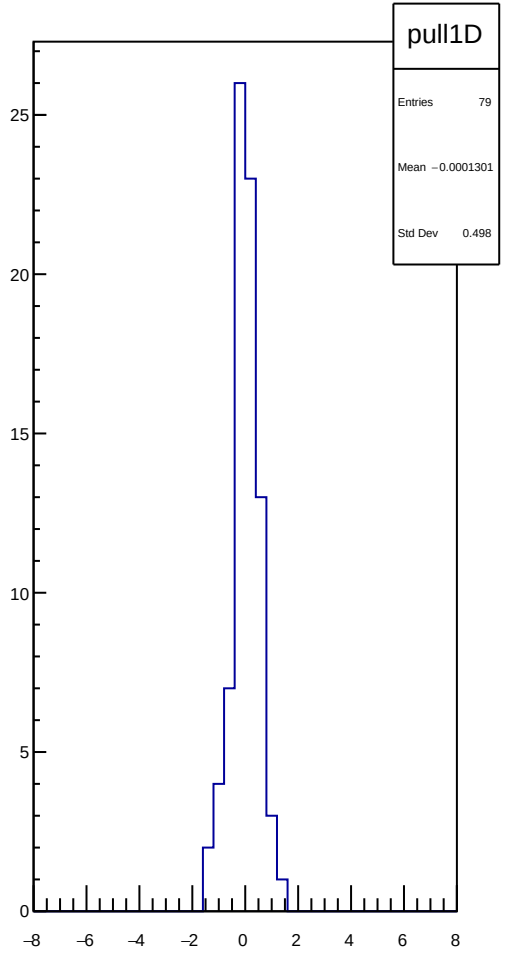

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 19.75 / 78
p0 −13.89 ± 2.533
pull
Entries 79
Mean −1.096e+04
Std Dev 0

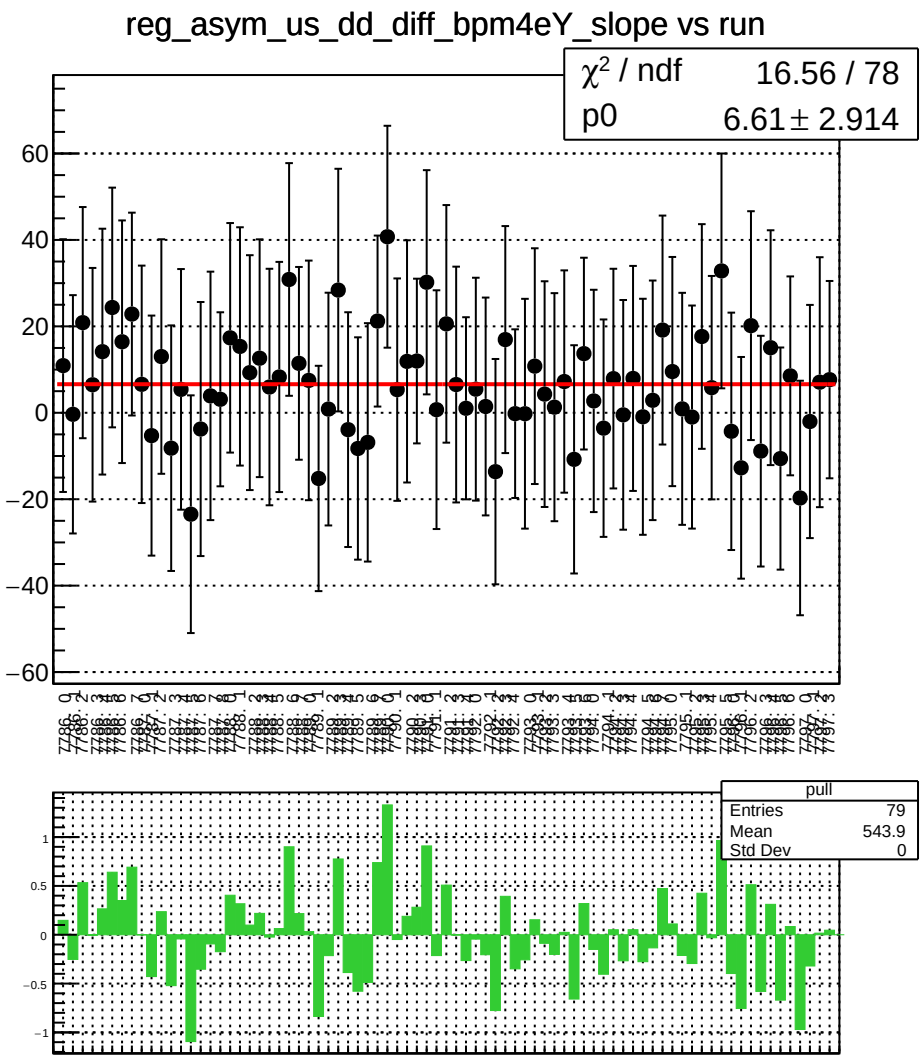

pull1D
Entries 79
Mean −2.919e−05
Std Dev 0.5001

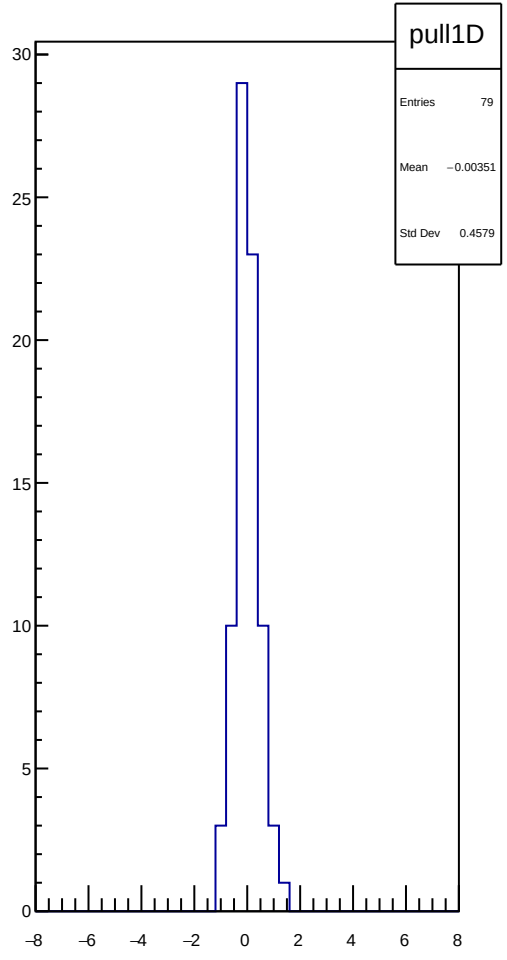

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.28 / 78
p0 −2.595 ± 2.57
pull
Entries 79
Mean 596.5
Std Dev 0

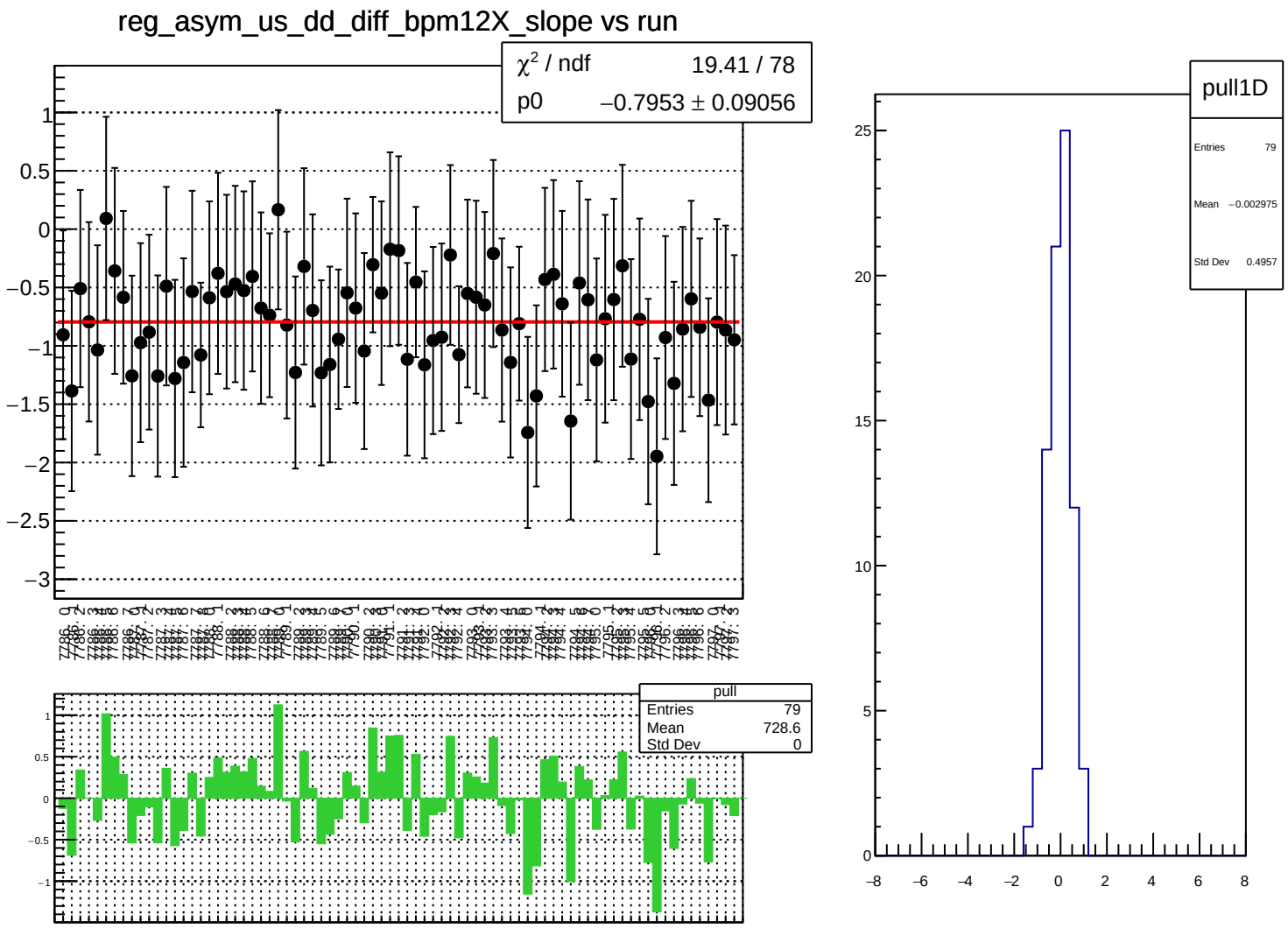

pull1D
Entries 79
Mean 0.003309
Std Dev 0.4676

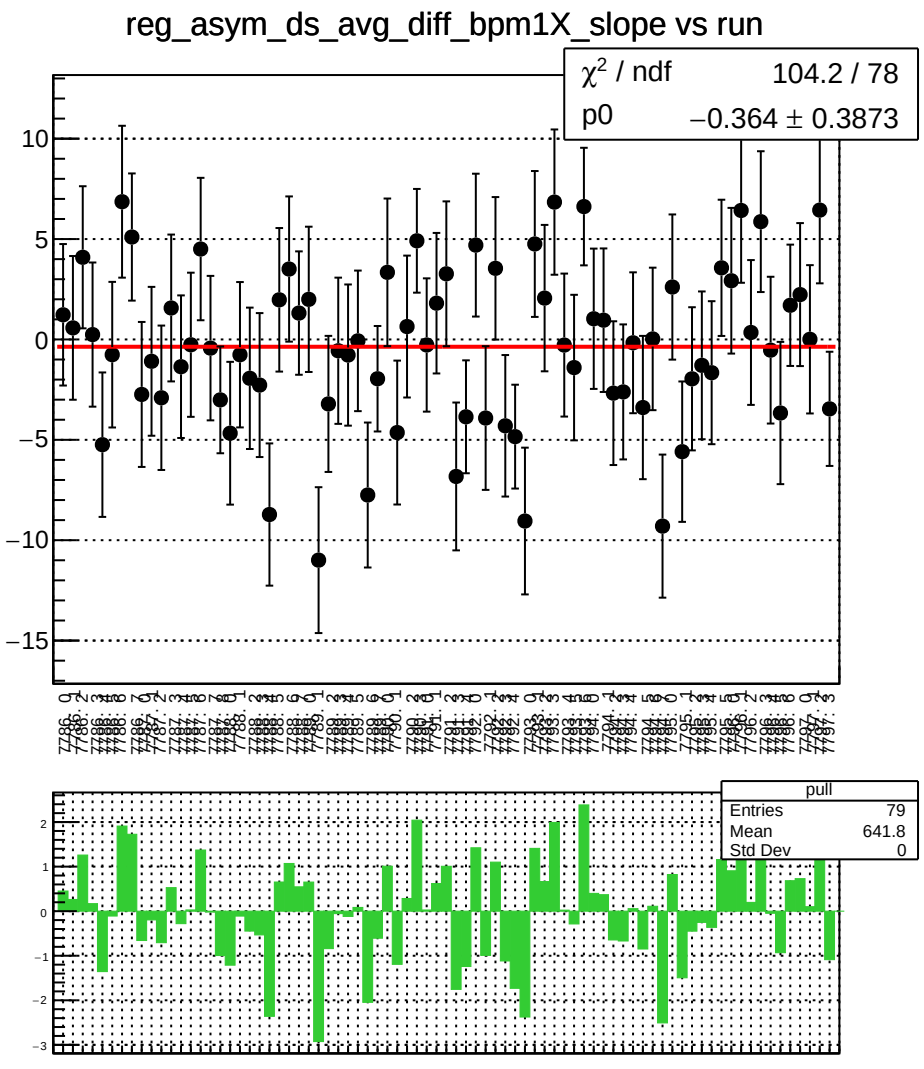

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.59 / 78
p0 −48.28 ± 2.202
0
−20
−40
−60
−80
−100
pull
Entries 79
Mean 3397
Std Dev 0
1
0.5
0
−0.5
−1

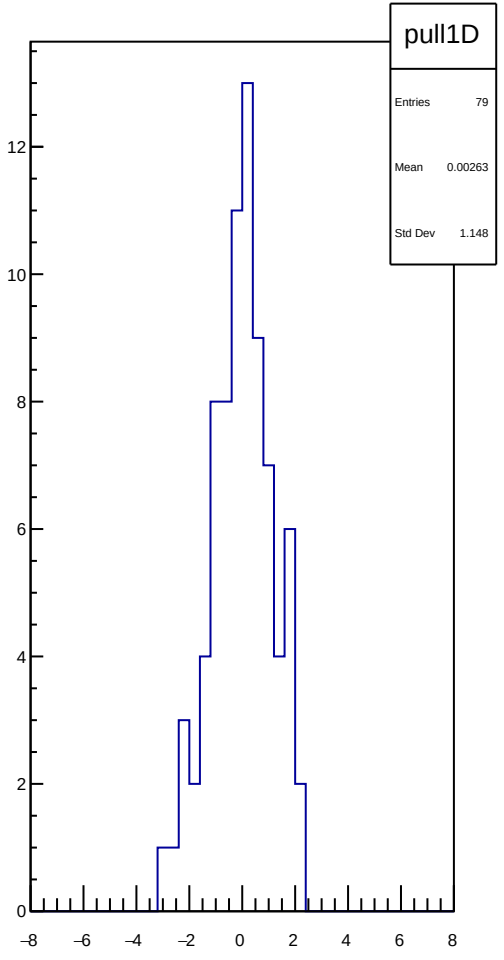

pull1D
Entries 79
Mean −0.0001301
Std Dev 0.498
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

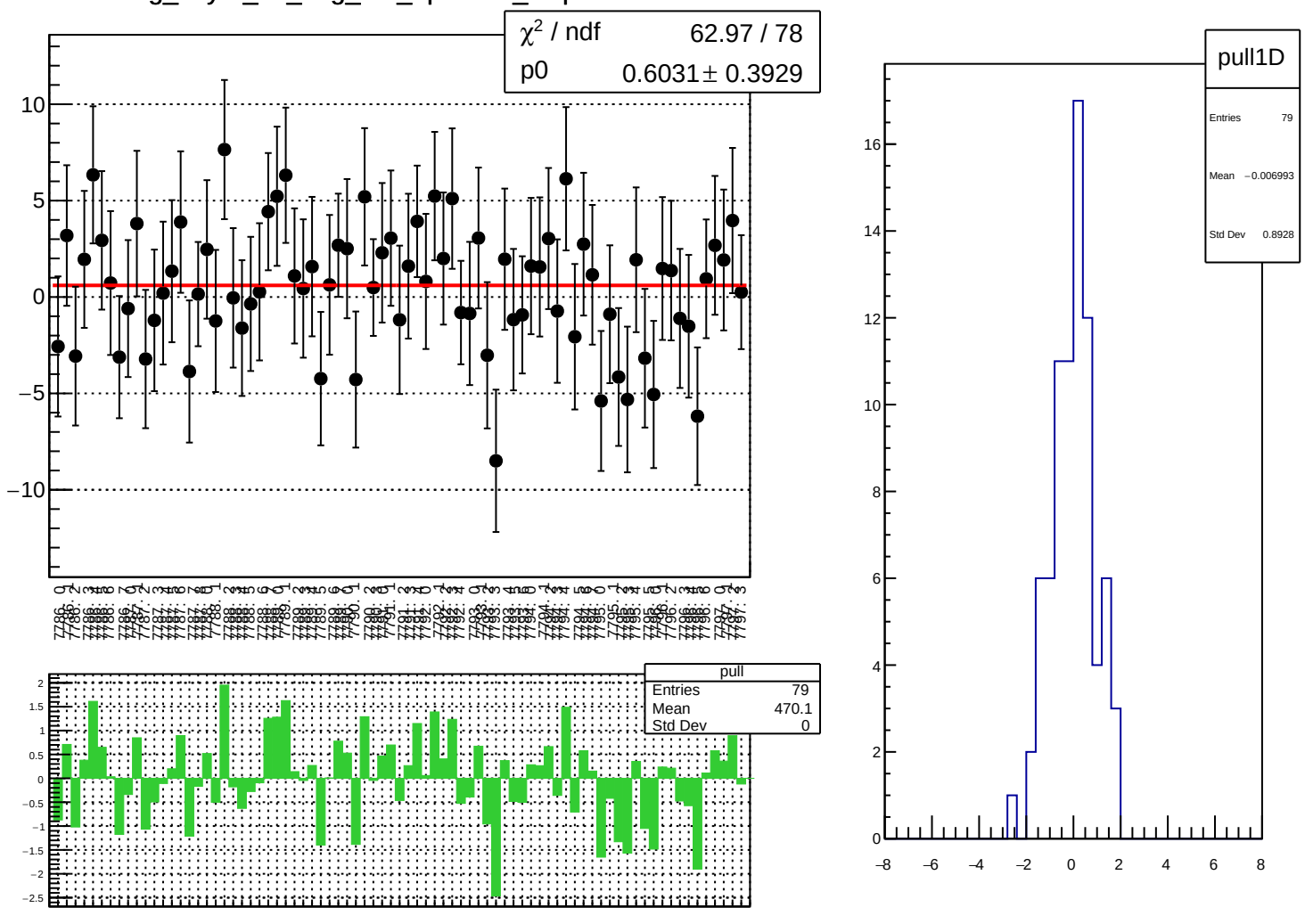

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.56 / 78
p0 6.61 ± 2.914
pull
Entries 79
Mean 543.9
Std Dev 0

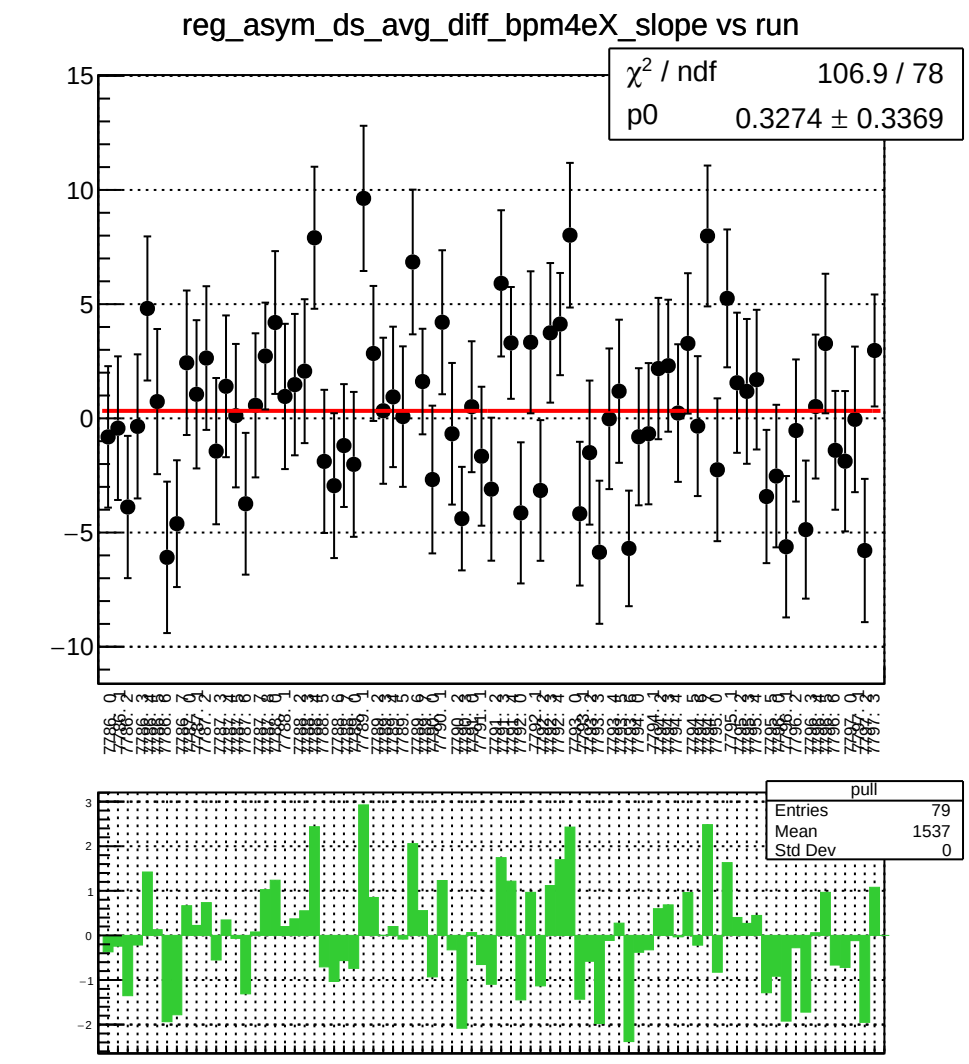

pull1D
Entries 79
Mean −0.00351
Std Dev 0.4579

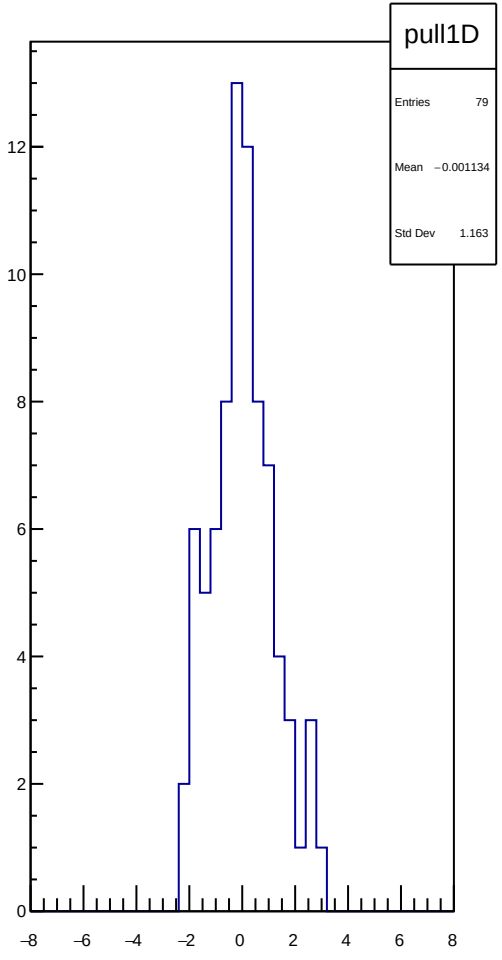

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 19.41 / 78
p0 −0.7953 ± 0.09056
pull
Entries 79
Mean 728.6
Std Dev 0
pull1D
Entries 79
Mean −0.002975
Std Dev 0.4957

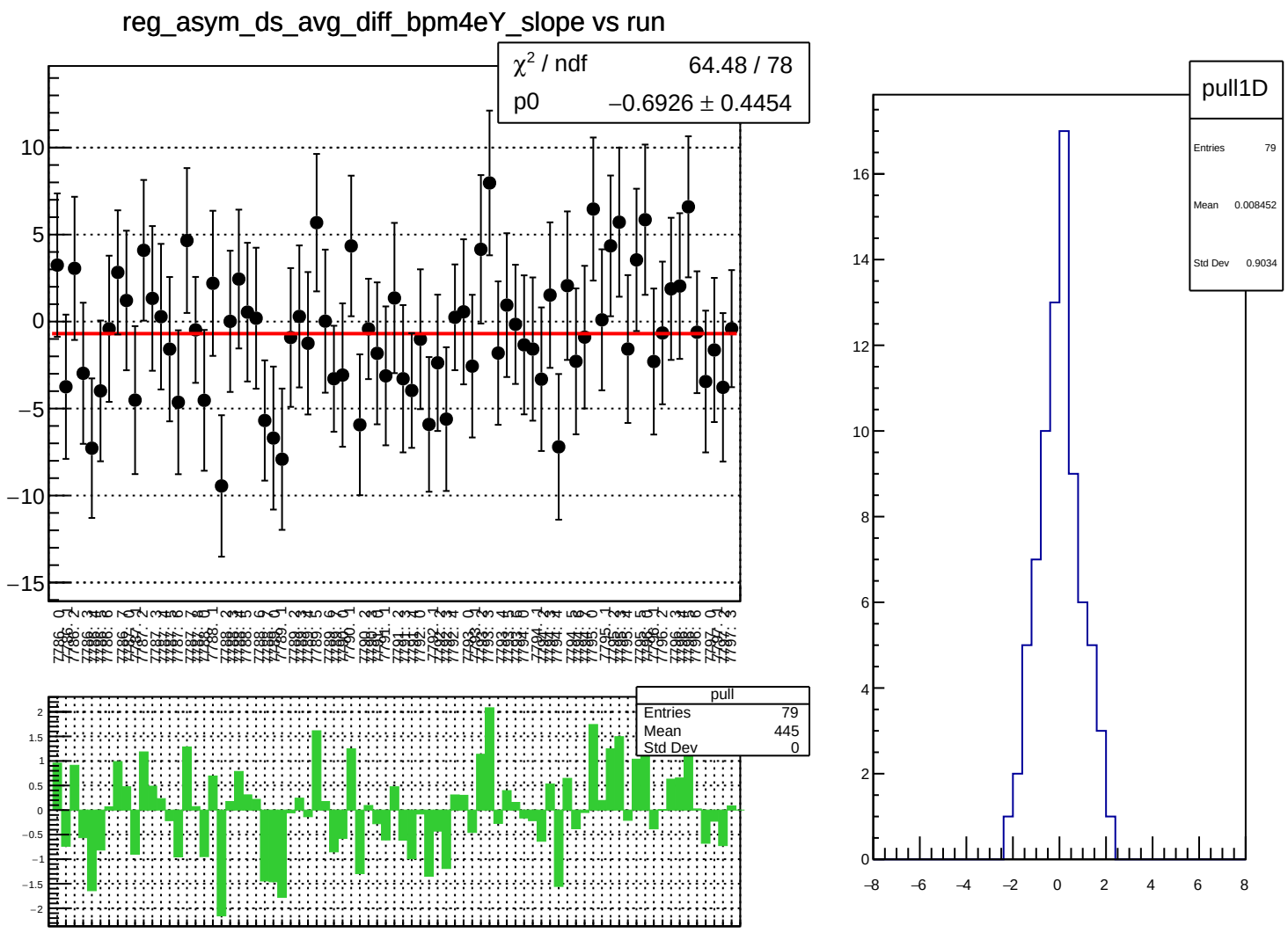

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ^2 / ndf 104.2 / 78
p0 −0.364 ± 0.3873
pull
Entries 79
Mean 641.8
Std Dev 0

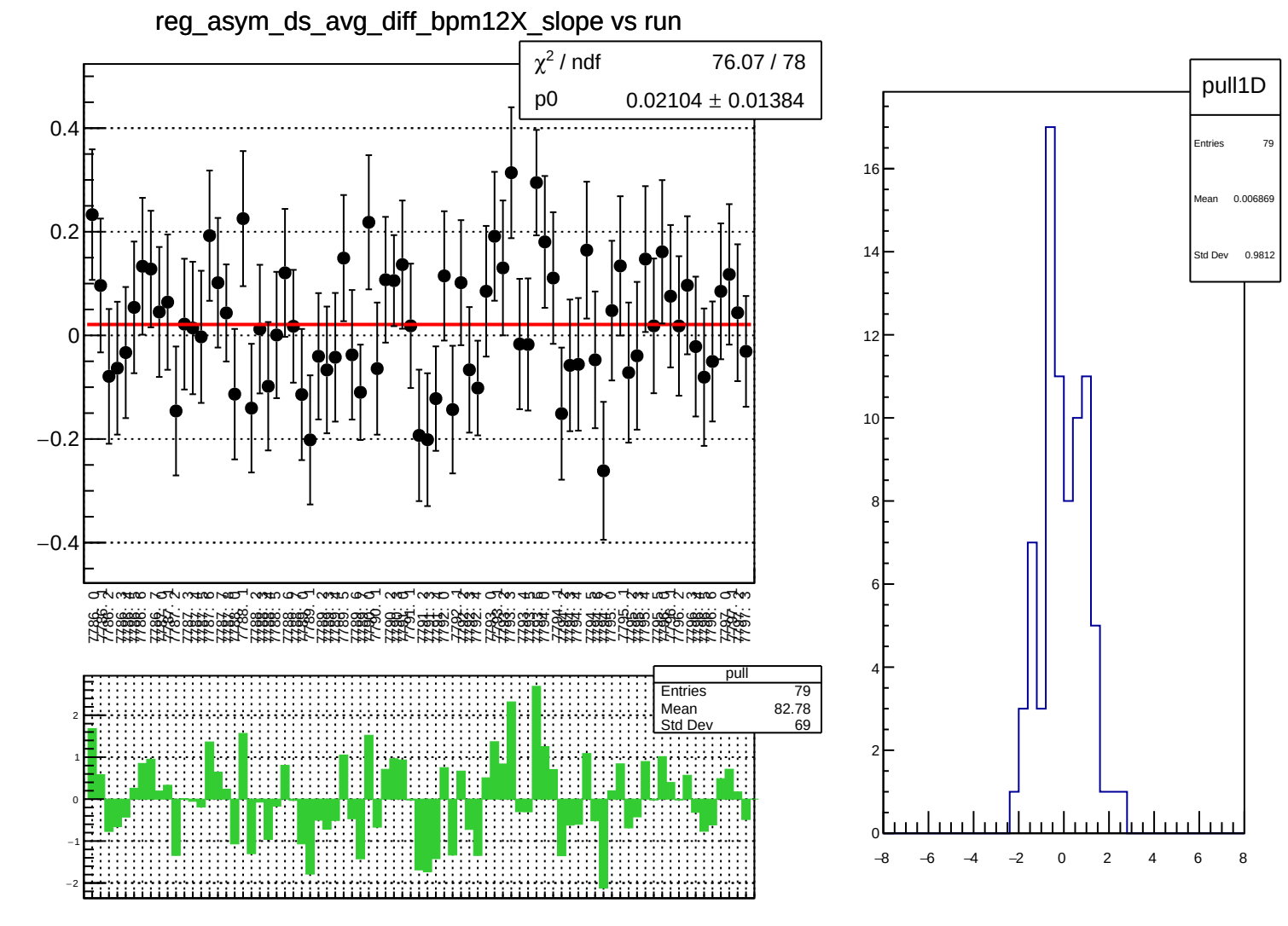

pull1D
Entries 79
Mean 0.00263
Std Dev 1.148

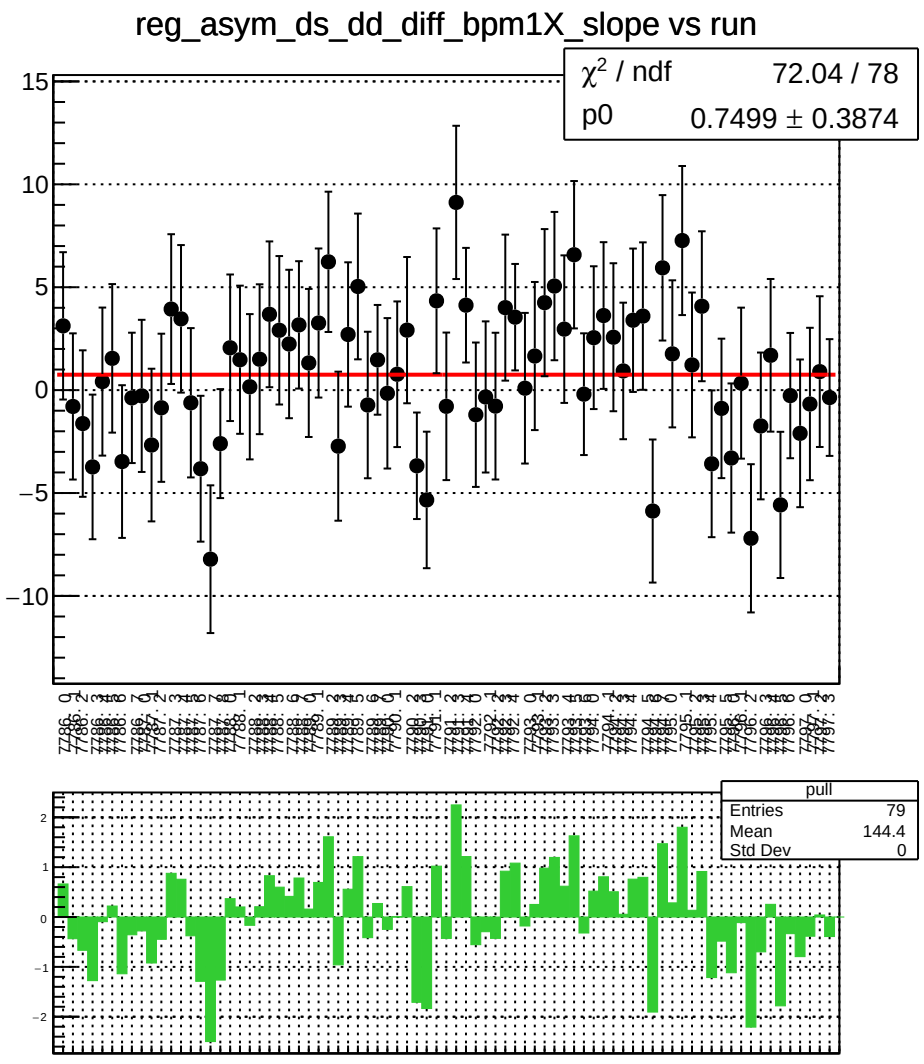

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 62.97 / 78
p0 0.6031 ± 0.3929
pull
Entries 79
Mean 470.1
Std Dev 0
pull1D
Entries 79
Mean −0.006993
Std Dev 0.8928

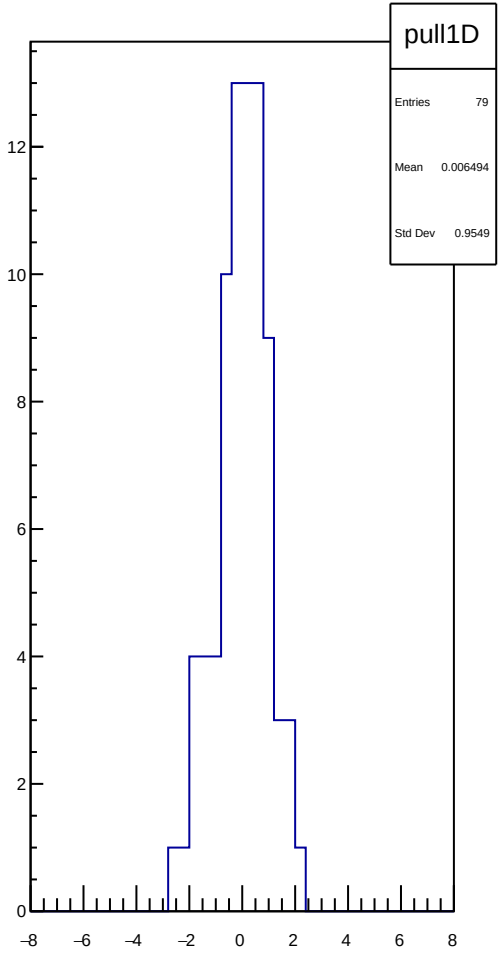

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 106.9 / 78
p0 0.3274 ± 0.3369
pull
Entries 79
Mean 1537
Std Dev 0

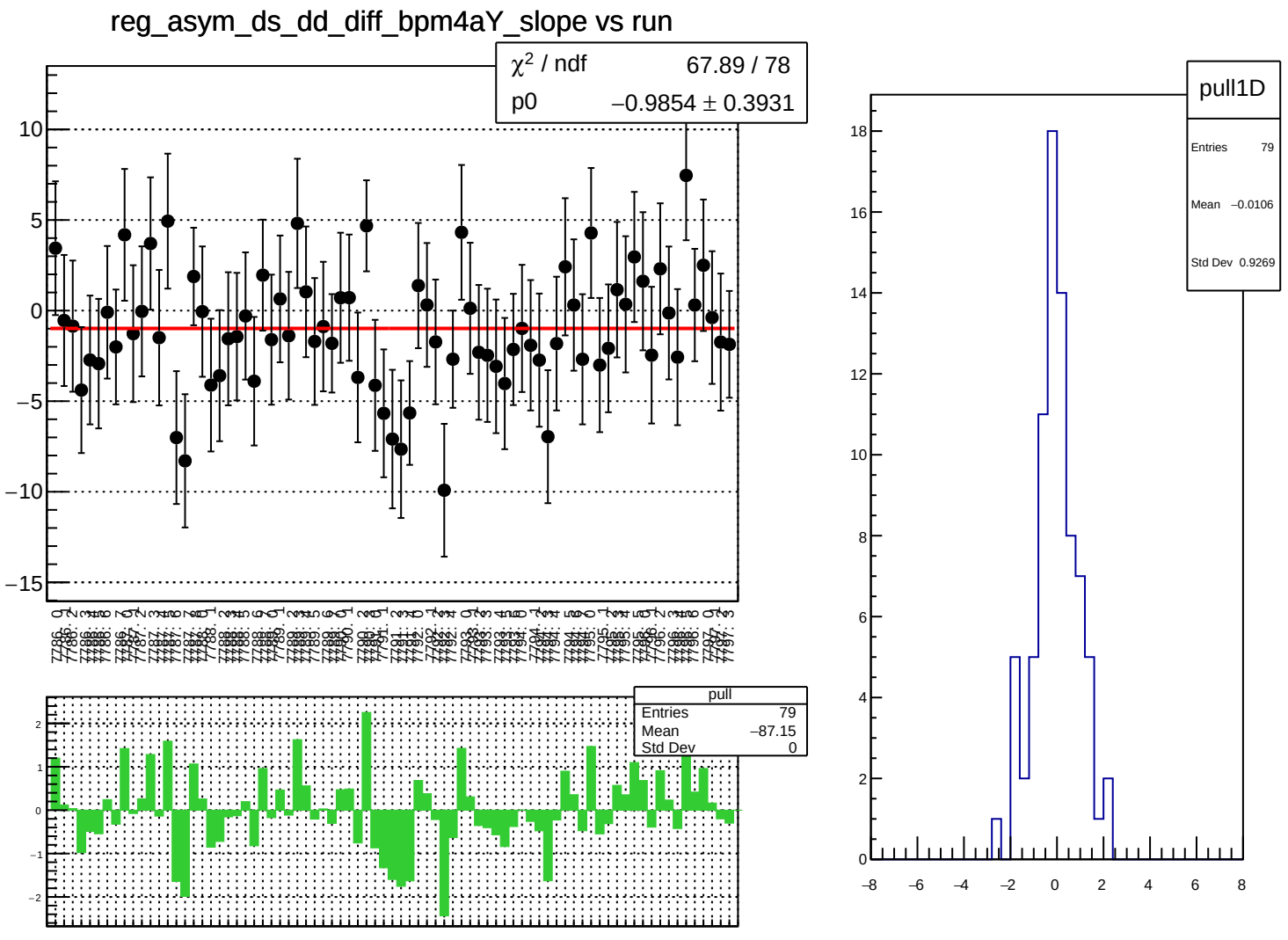

pull1D
Entries 79
Mean −0.001134
Std Dev 1.163

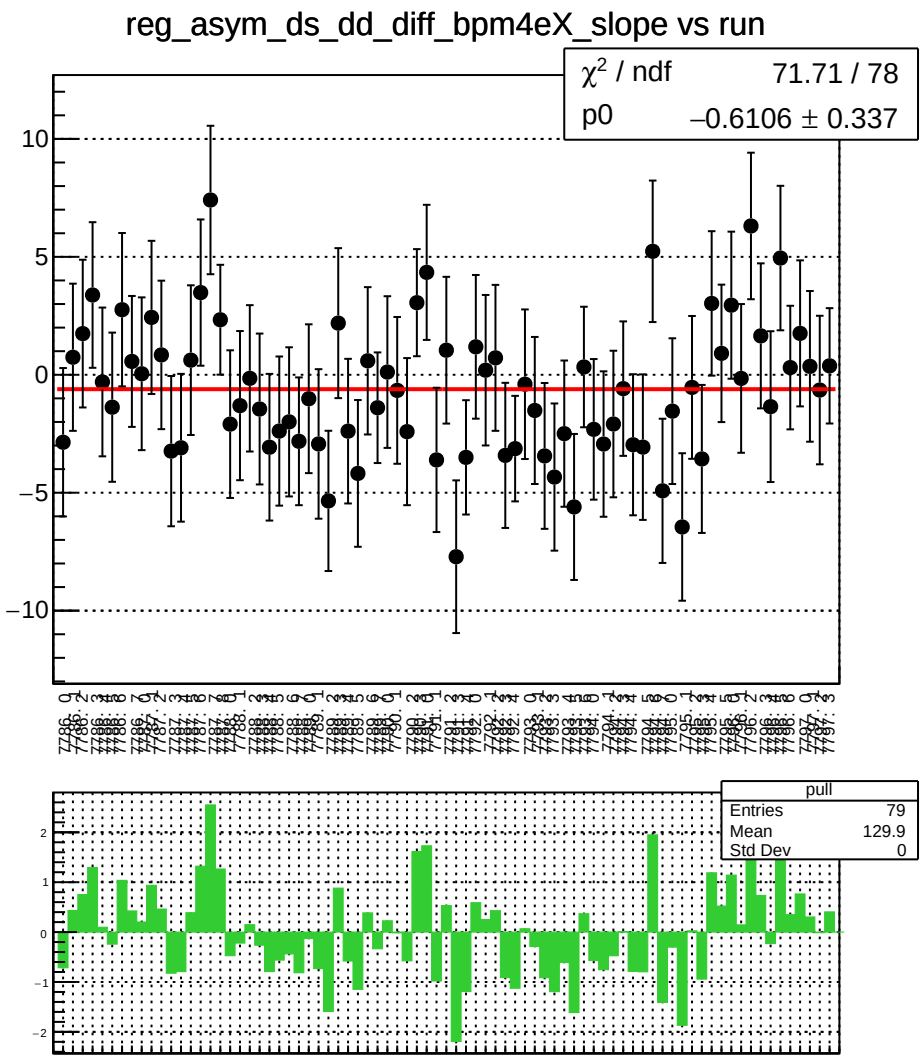

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.48 / 78
p0 −0.6926 ± 0.4454
pull
Entries 79
Mean 445
Std Dev 0
pull1D
Entries 79
Mean 0.008452
Std Dev 0.9034

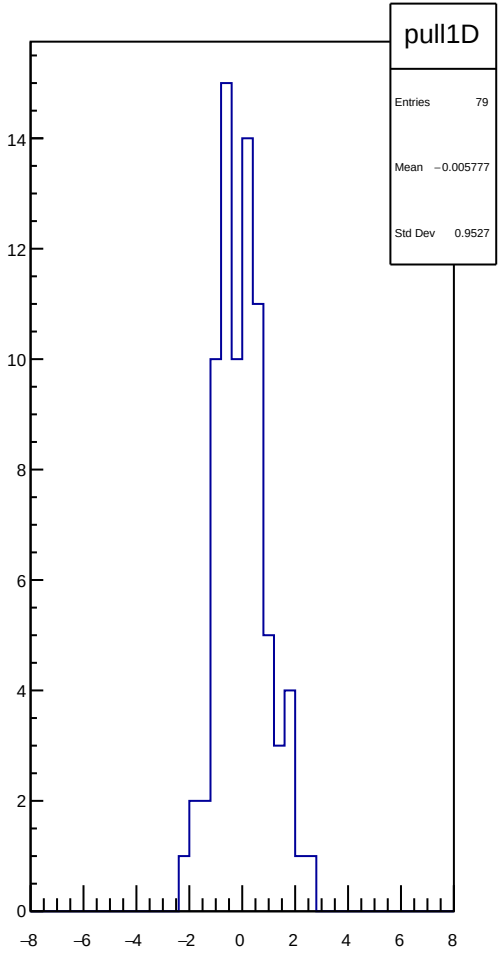

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 76.07 / 78
p0 0.02104 ± 0.01384
pull
Entries 79
Mean 82.78
Std Dev 69
pull1D
Entries 79
Mean 0.006869
Std Dev 0.9812

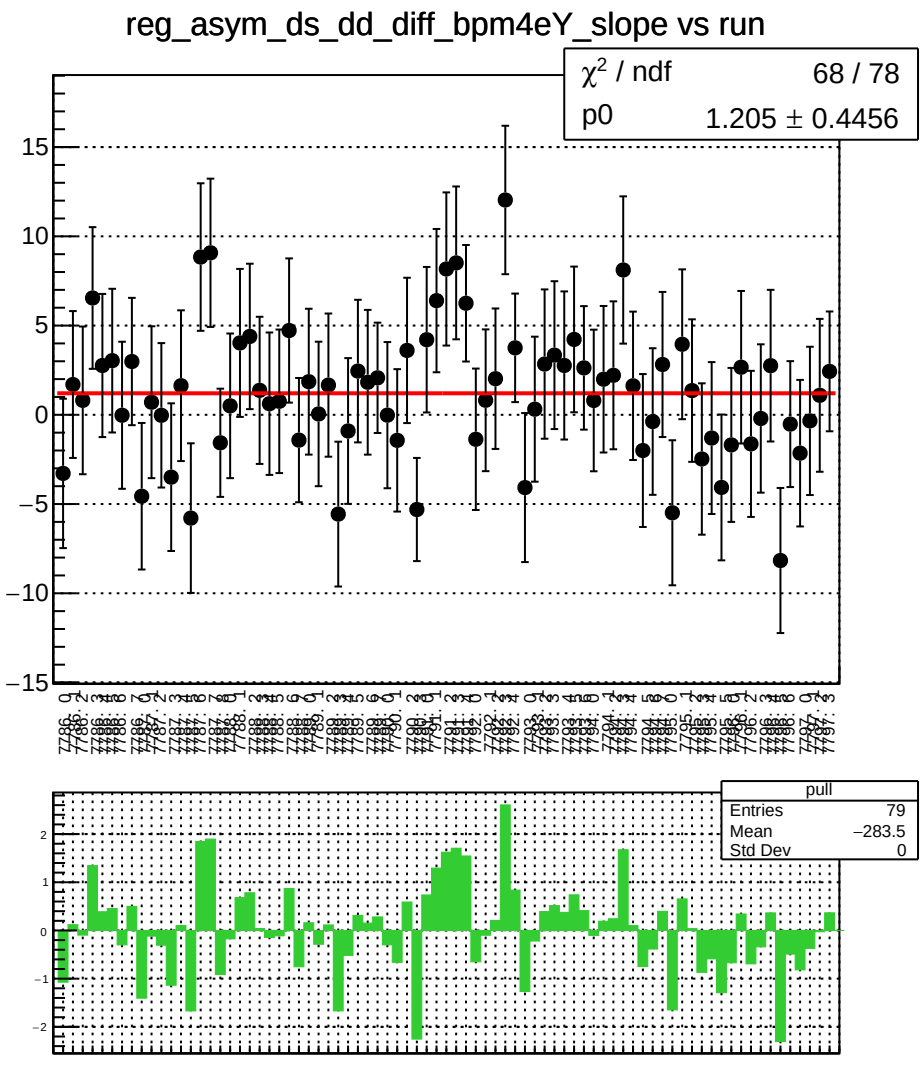

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 72.04 / 78
p0 0.7499 ± 0.3874
pull
Entries 79
Mean 144.4
Std Dev 0

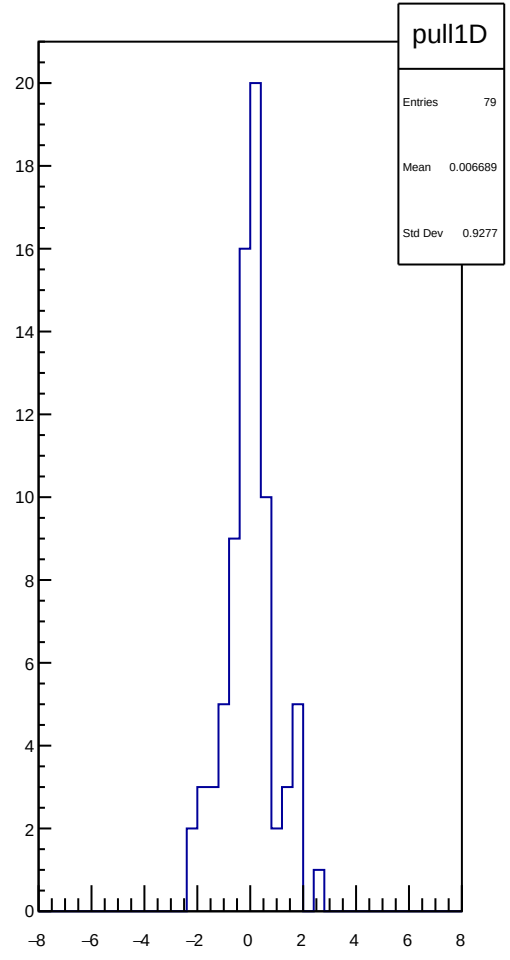

pull1D
Entries 79
Mean 0.006494
Std Dev 0.9549

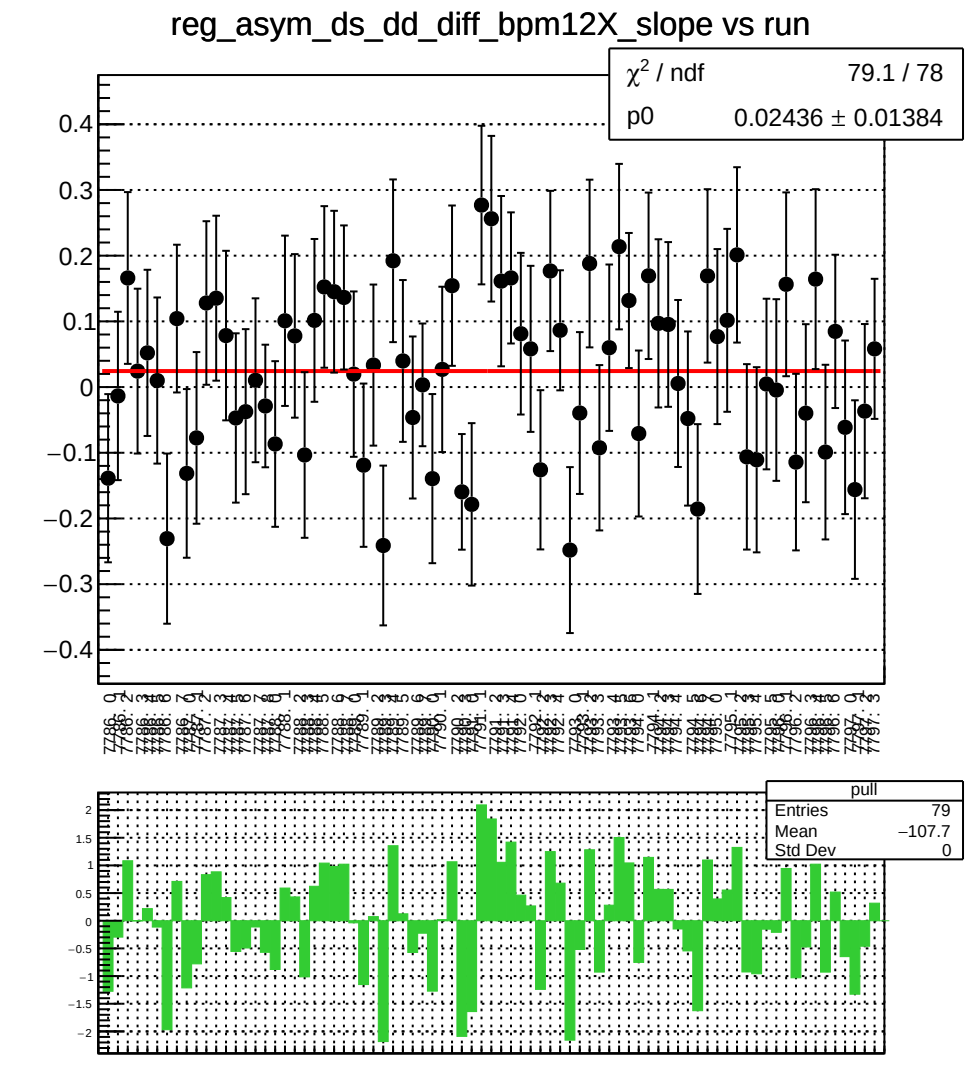

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.89 / 78
p0 −0.9854 ± 0.3931
pull
Entries 79
Mean −87.15
Std Dev 0
pull1D
Entries 79
Mean −0.0106
Std Dev 0.9269

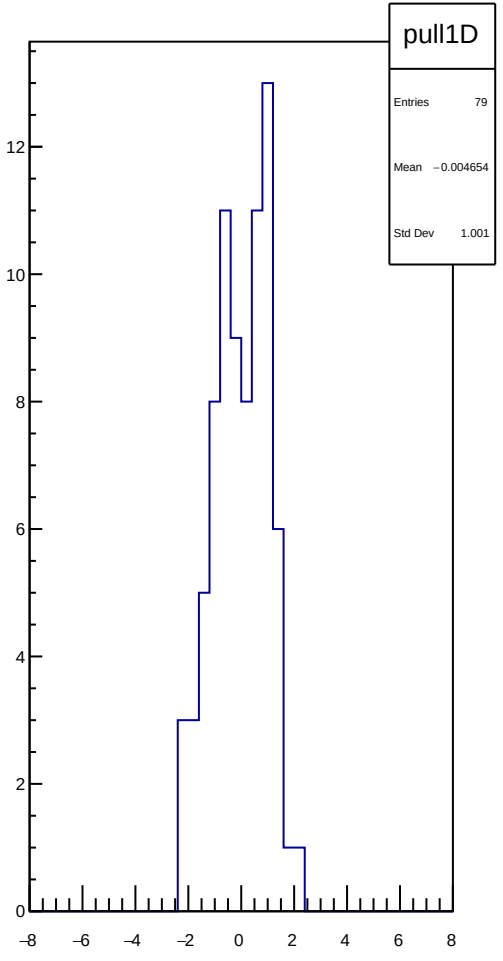

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.71 / 78
p0 −0.6106 ± 0.337
pull
Entries 79
Mean 129.9
Std Dev 0

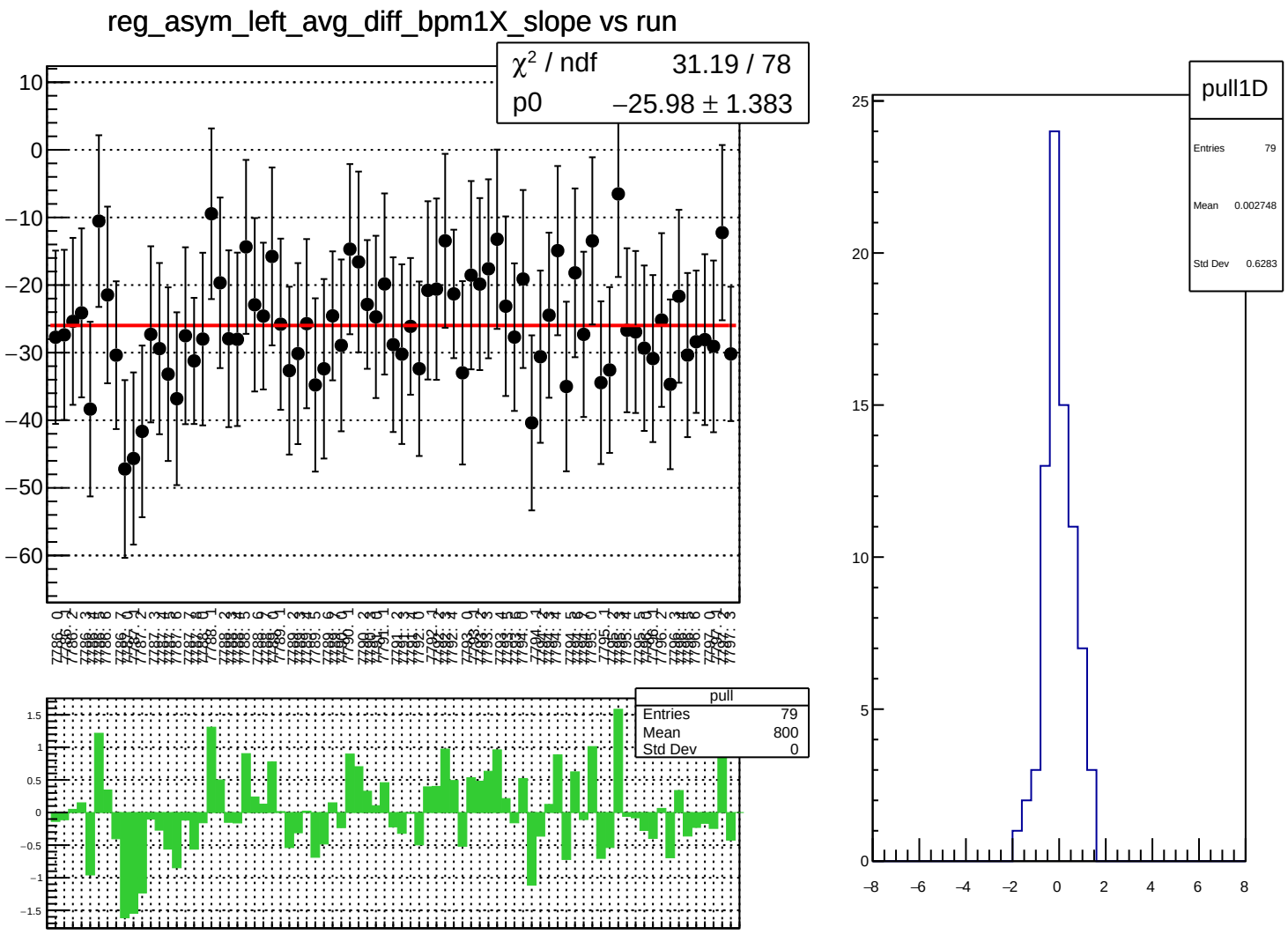

pull1D
Entries 79
Mean −0.005777
Std Dev 0.9527

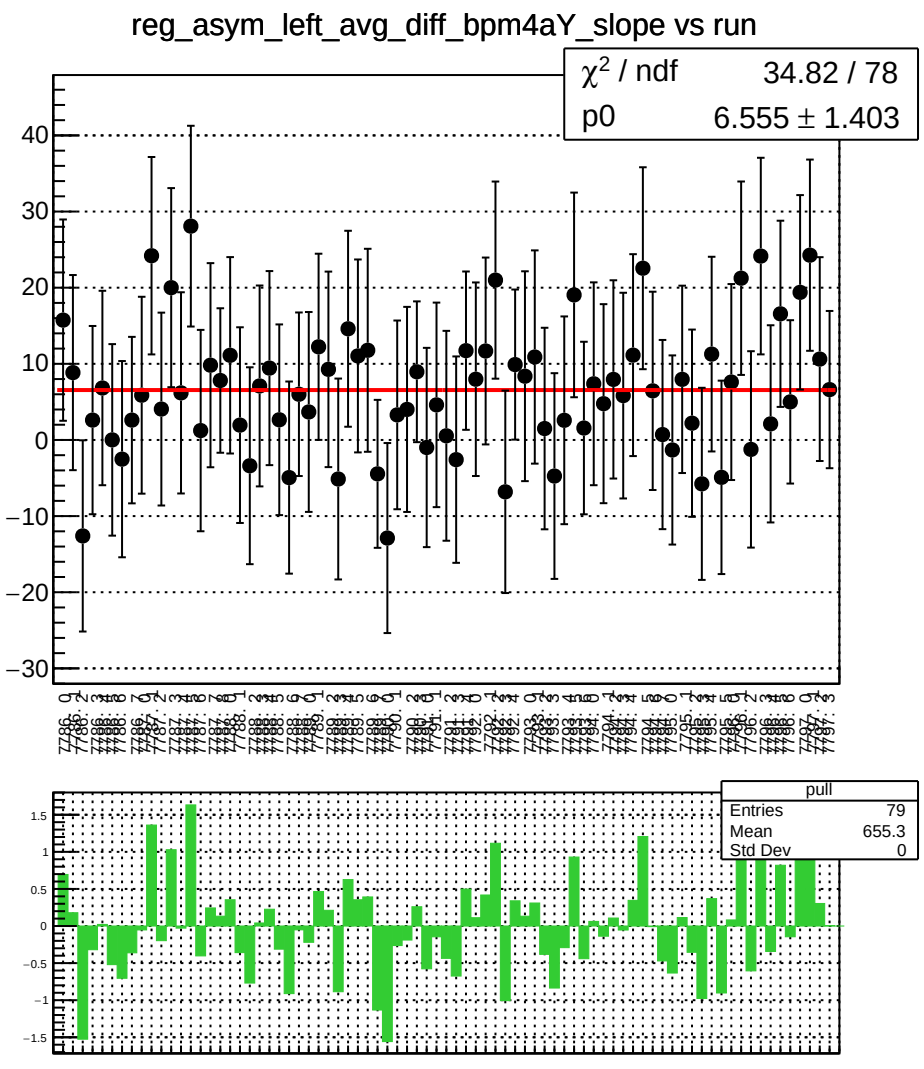

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 68 / 78
p0 1.205 ± 0.4456
pull
Entries 79
Mean −283.5
Std Dev 0

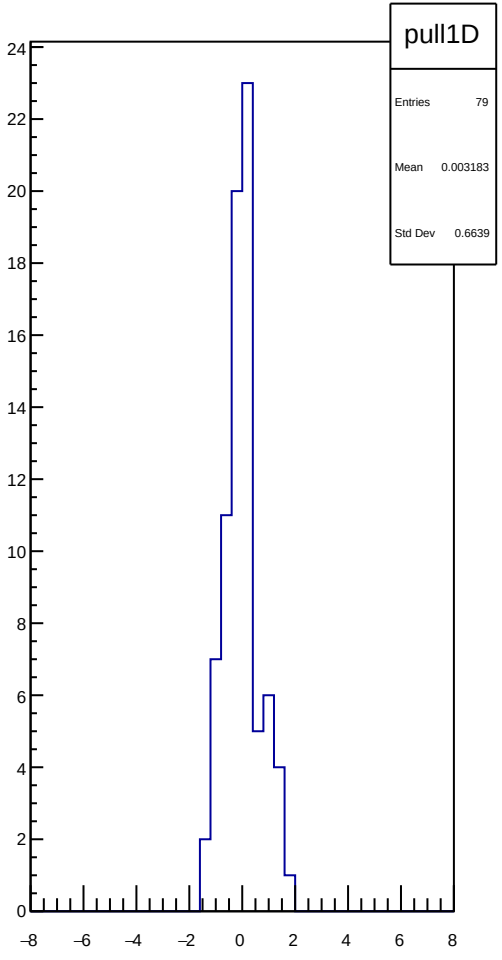

pull1D
Entries 79
Mean 0.006689
Std Dev 0.9277

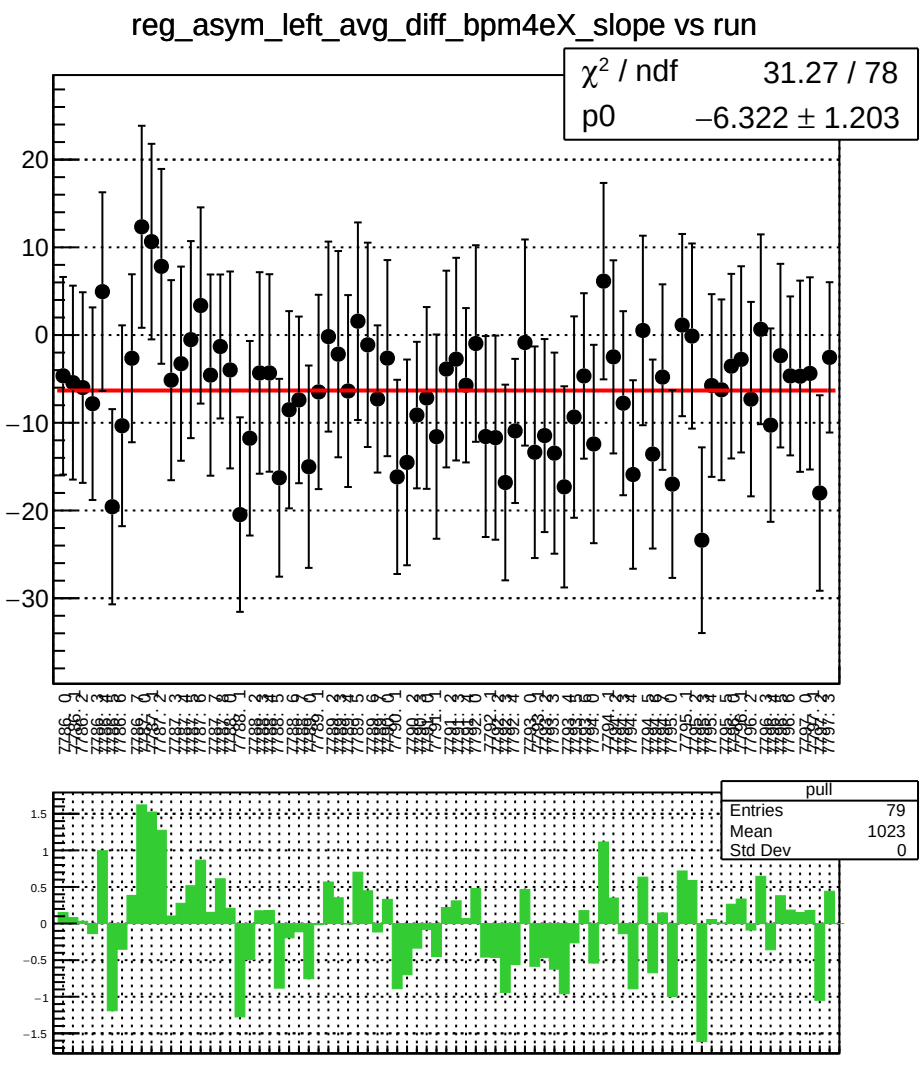

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 79.1 / 78
p0 0.02436 ± 0.01384
pull
Entries 79
Mean −107.7
Std Dev 0

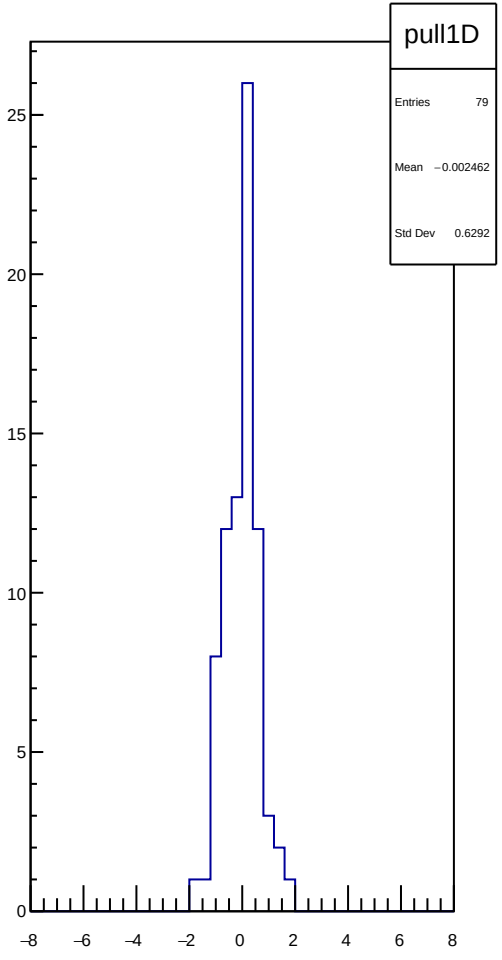

pull1D
Entries 79
Mean −0.004654
Std Dev 1.001

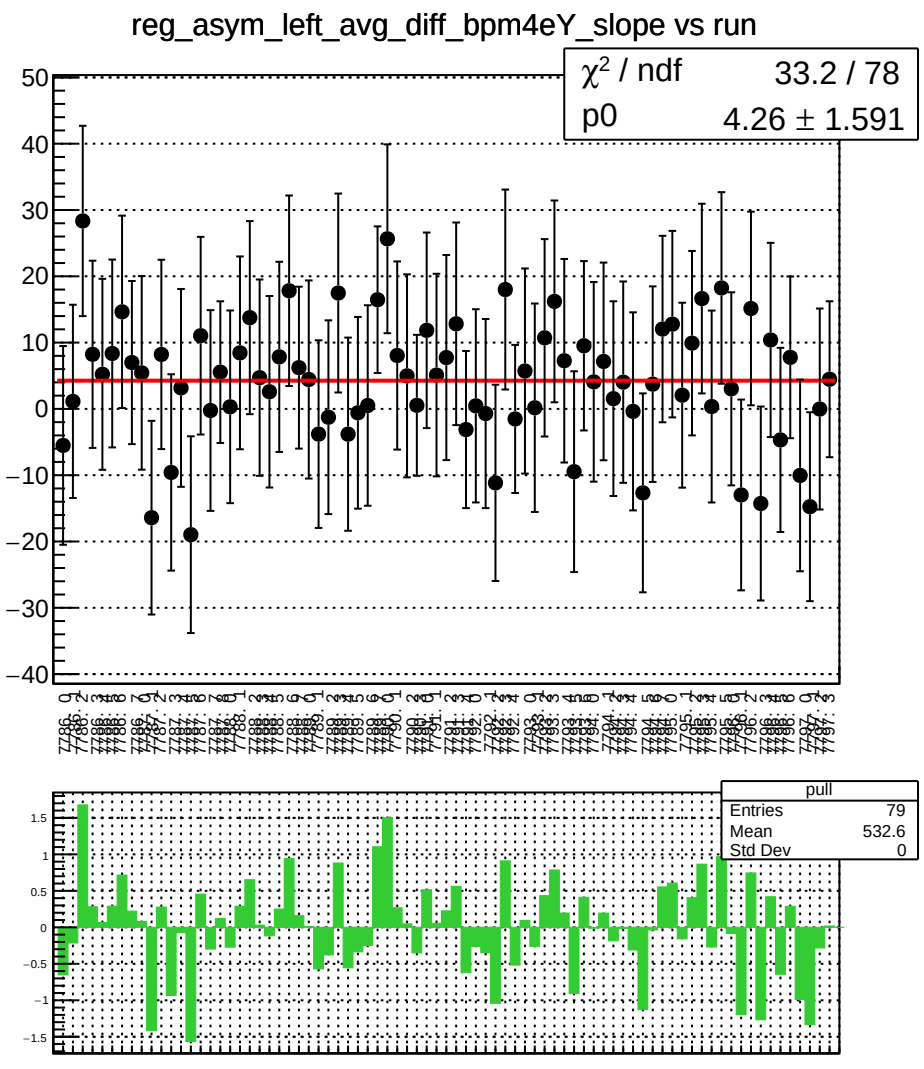

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 31.19 / 78
p0 −25.98 ± 1.383
pull
Entries 79
Mean 800
Std Dev 0
pull1D
Entries 79
Mean 0.002748
Std Dev 0.6283

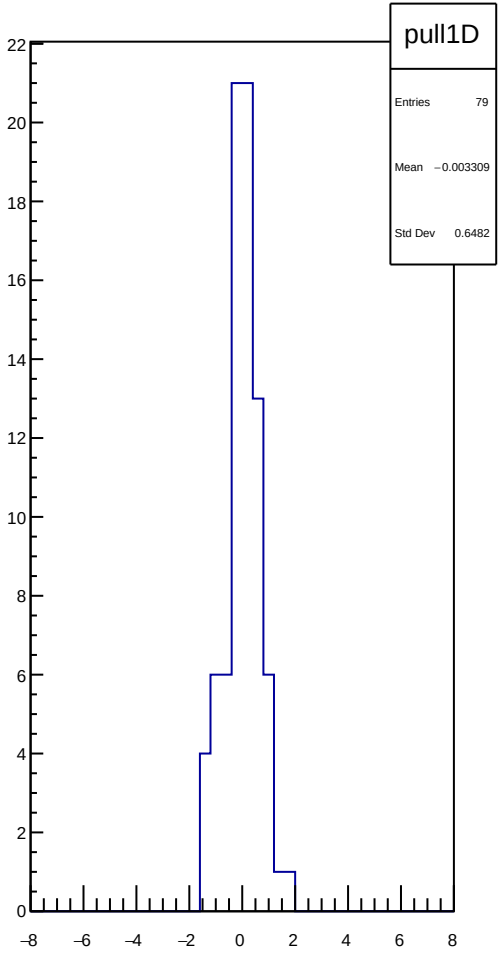

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.82 / 78
p0 6.555 ± 1.403
pull
Entries 79
Mean 655.3
Std Dev 0

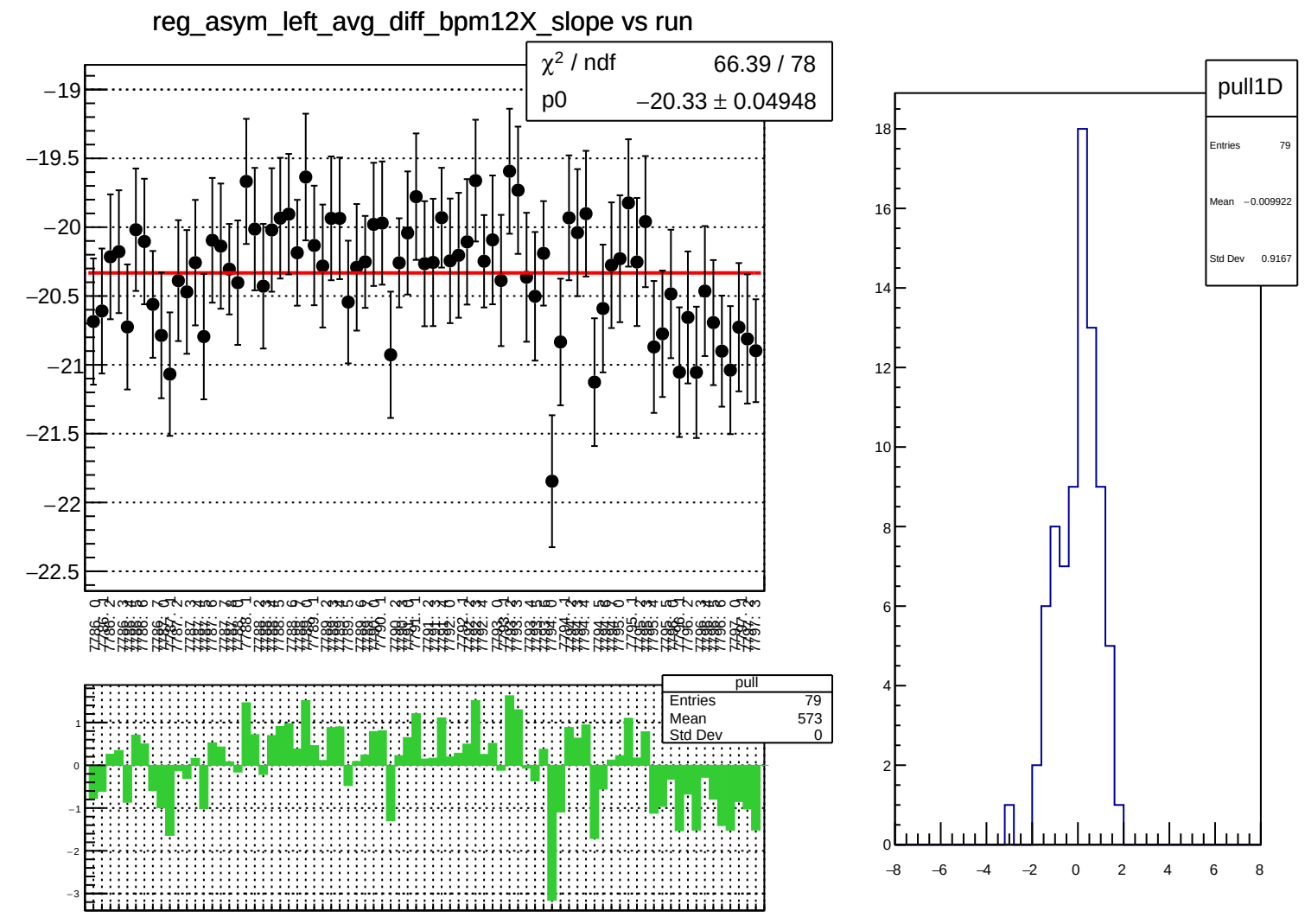

pull1D
Entries 79
Mean 0.003183
Std Dev 0.6639

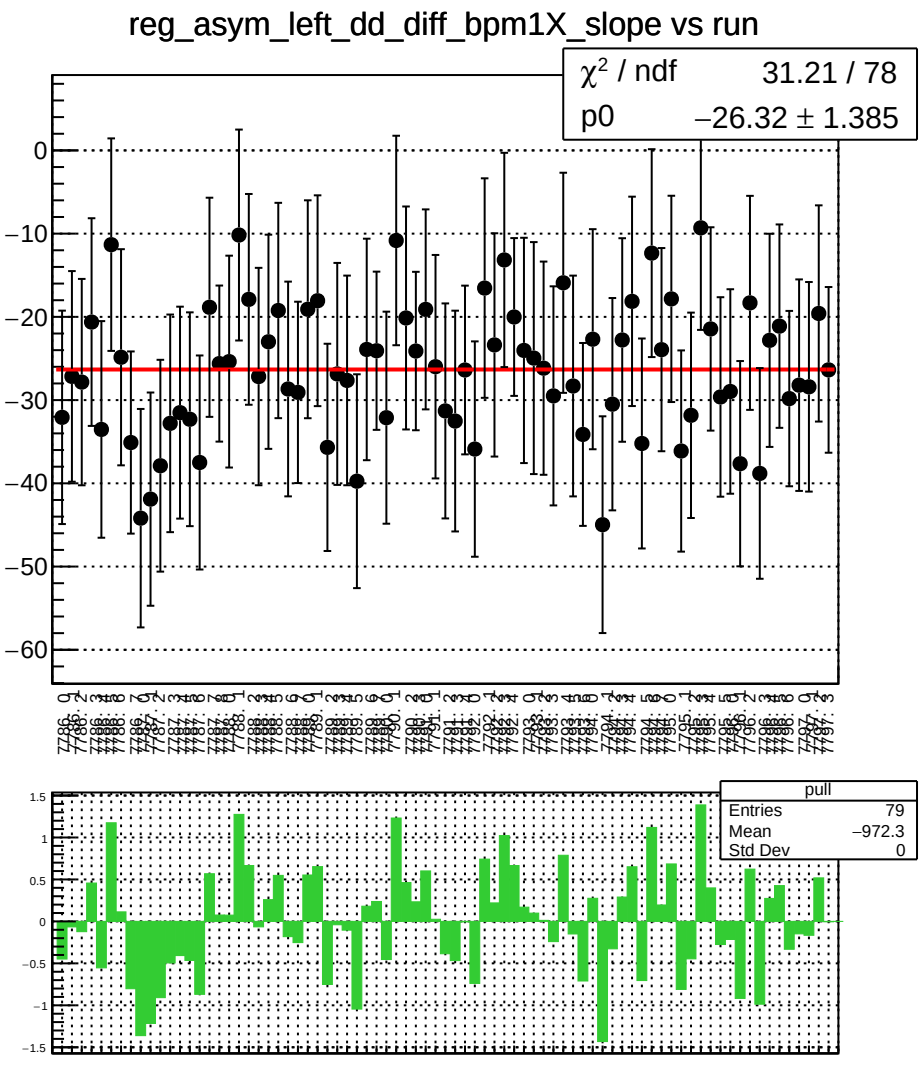

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.27 / 78
p0 −6.322 ± 1.203
pull
Entries 79
Mean 1023
Std Dev 0

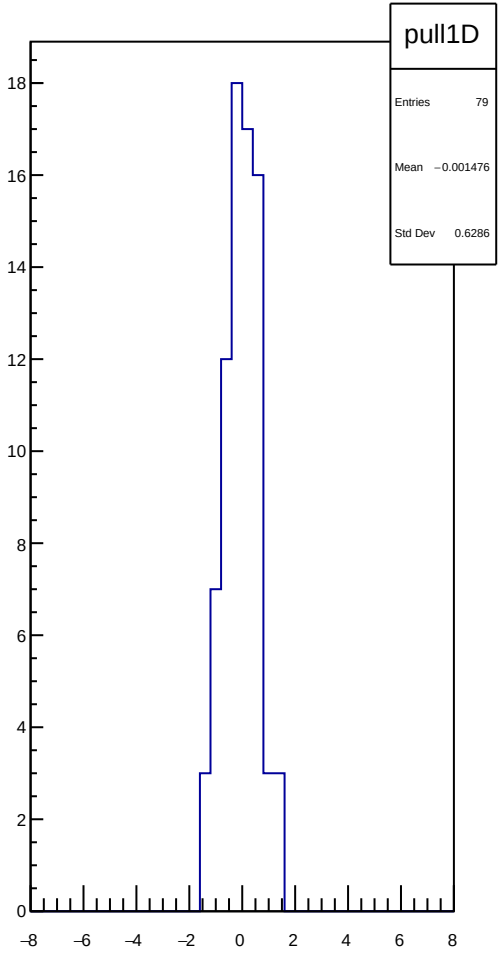

pull1D
Entries 79
Mean −0.002462
Std Dev 0.6292

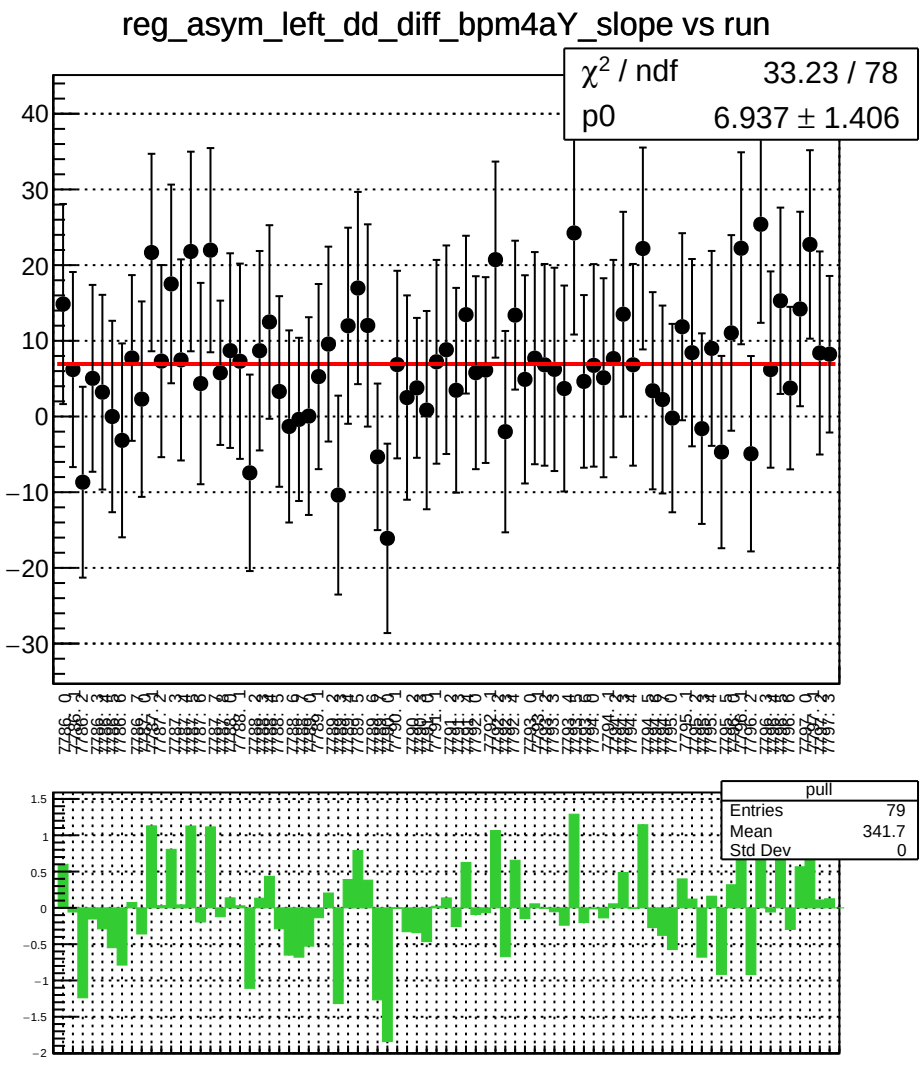

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.2 / 78
p0 4.26 ± 1.591
pull
Entries 79
Mean 532.6
Std Dev 0

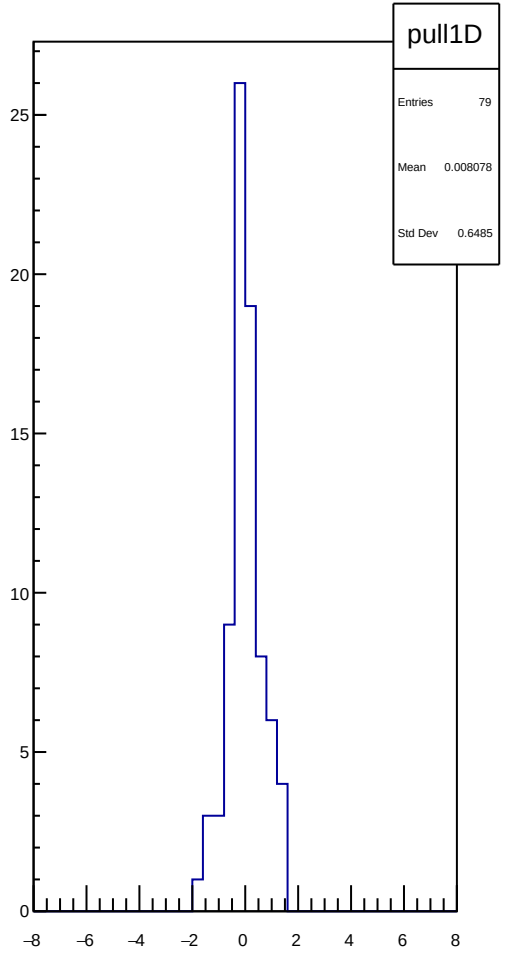

pull1D
Entries 79
Mean −0.003309
Std Dev 0.6482

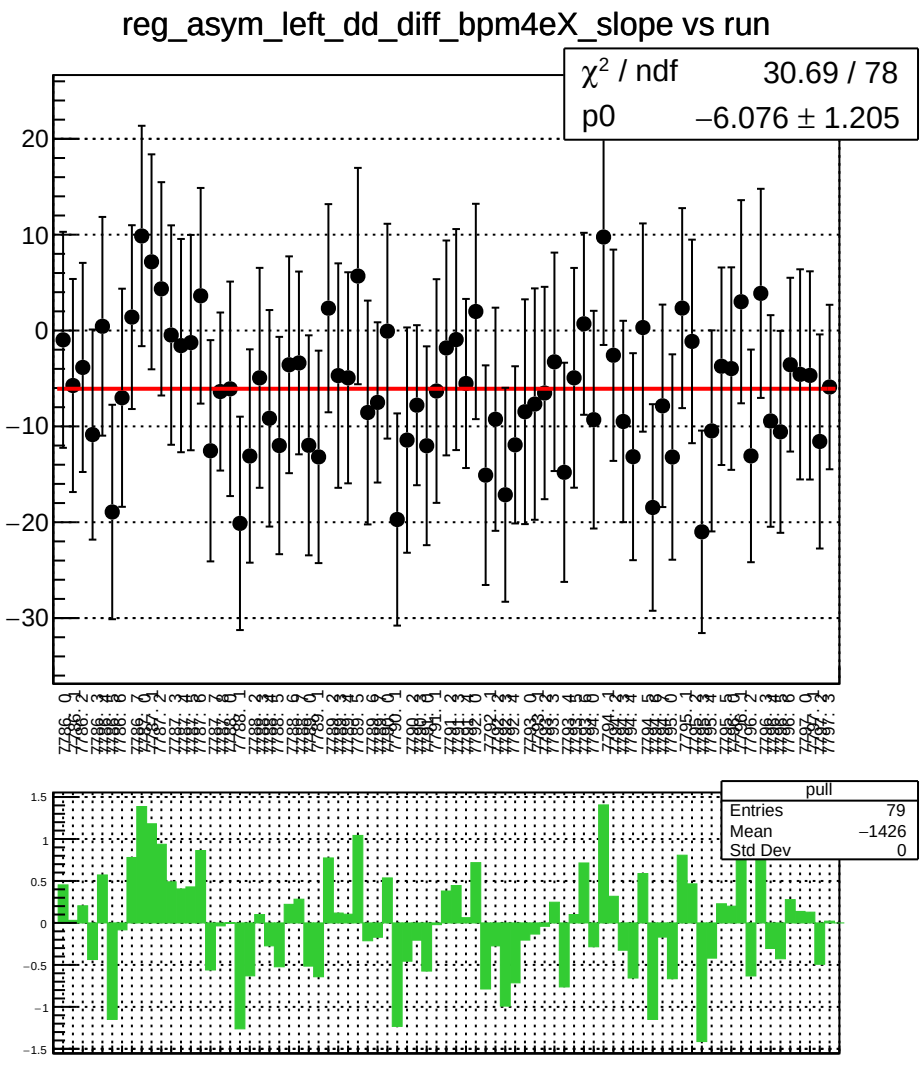

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 66.39 / 78
p0 −20.33 ± 0.04948
pull
Entries 79
Mean 573
Std Dev 0
pull1D
Entries 79
Mean −0.009922
Std Dev 0.9167

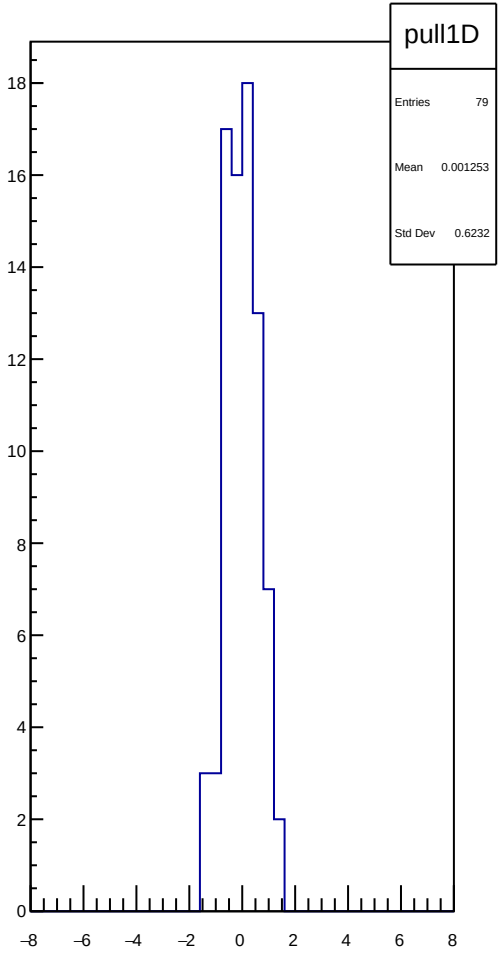

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 31.21 / 78
p0 −26.32 ± 1.385
pull
Entries 79
Mean −972.3
Std Dev 0

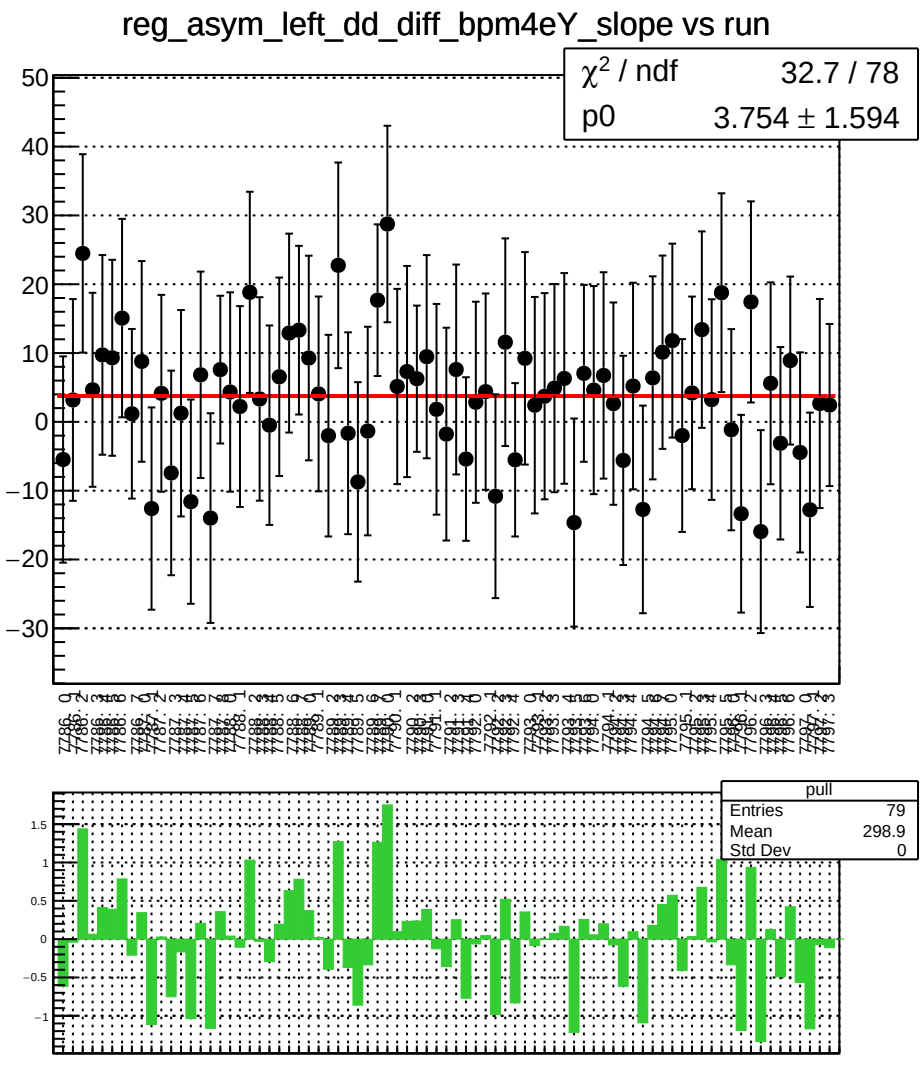

pull1D
Entries 79
Mean −0.001476
Std Dev 0.6286

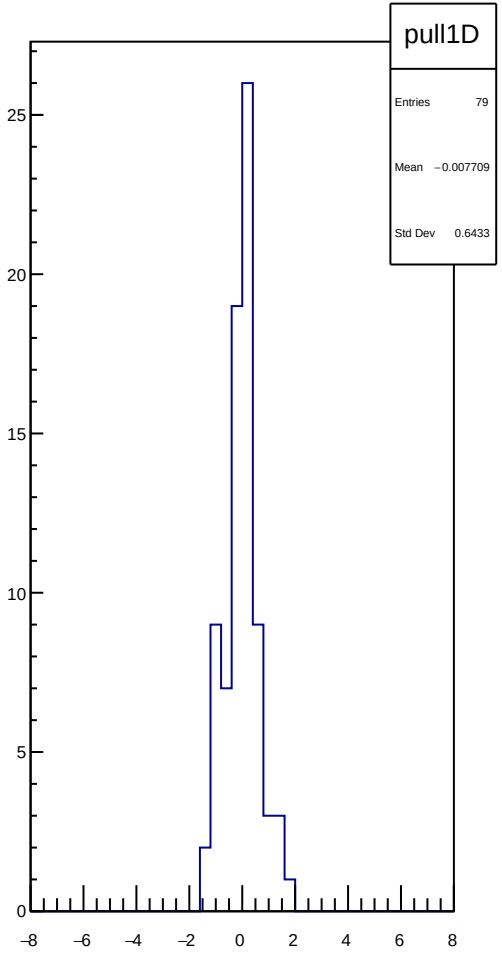

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.23 / 78
p0 6.937 ± 1.406
pull
Entries 79
Mean 341.7
Std Dev 0

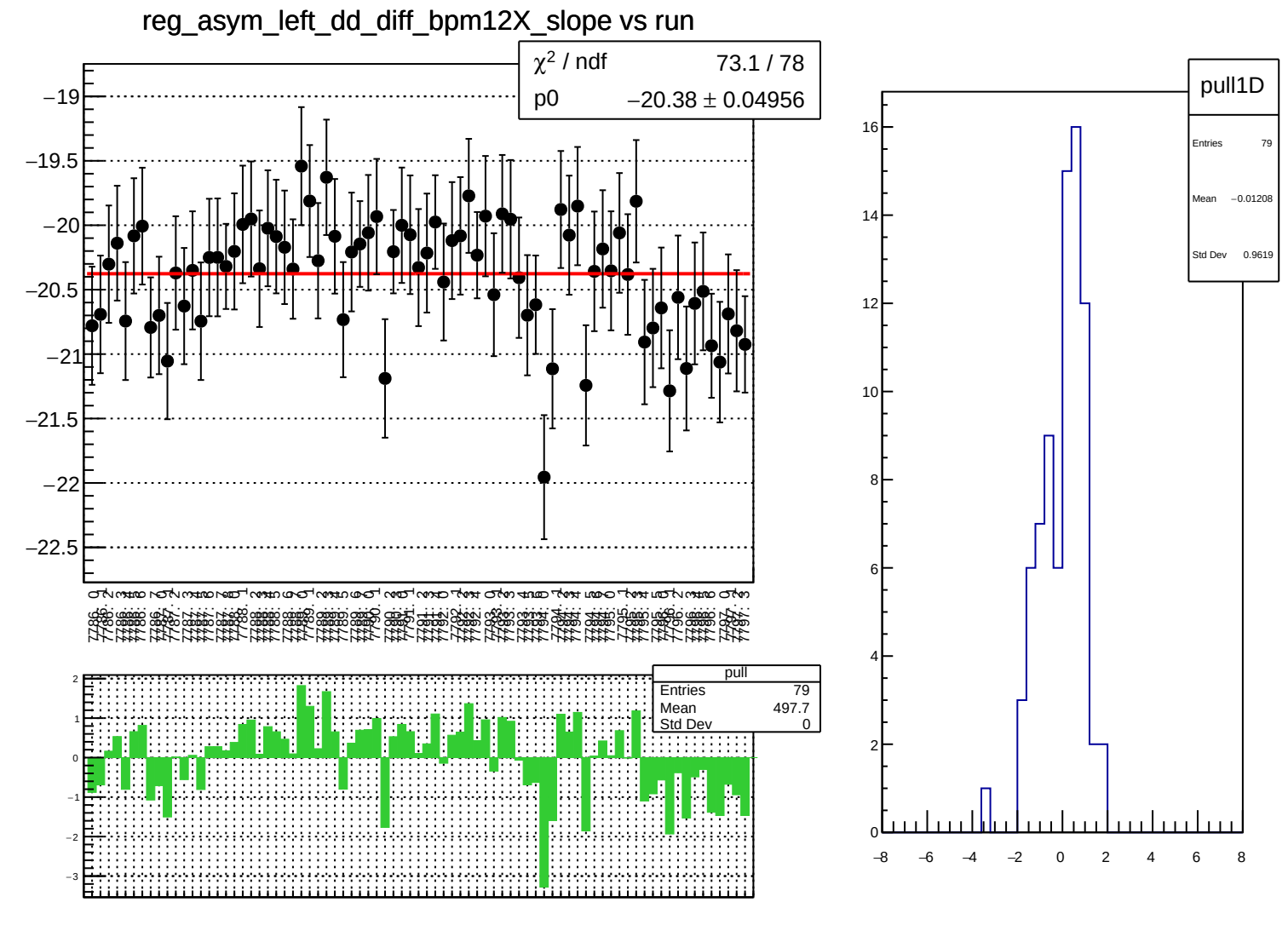

pull1D
Entries 79
Mean 0.008078
Std Dev 0.6485

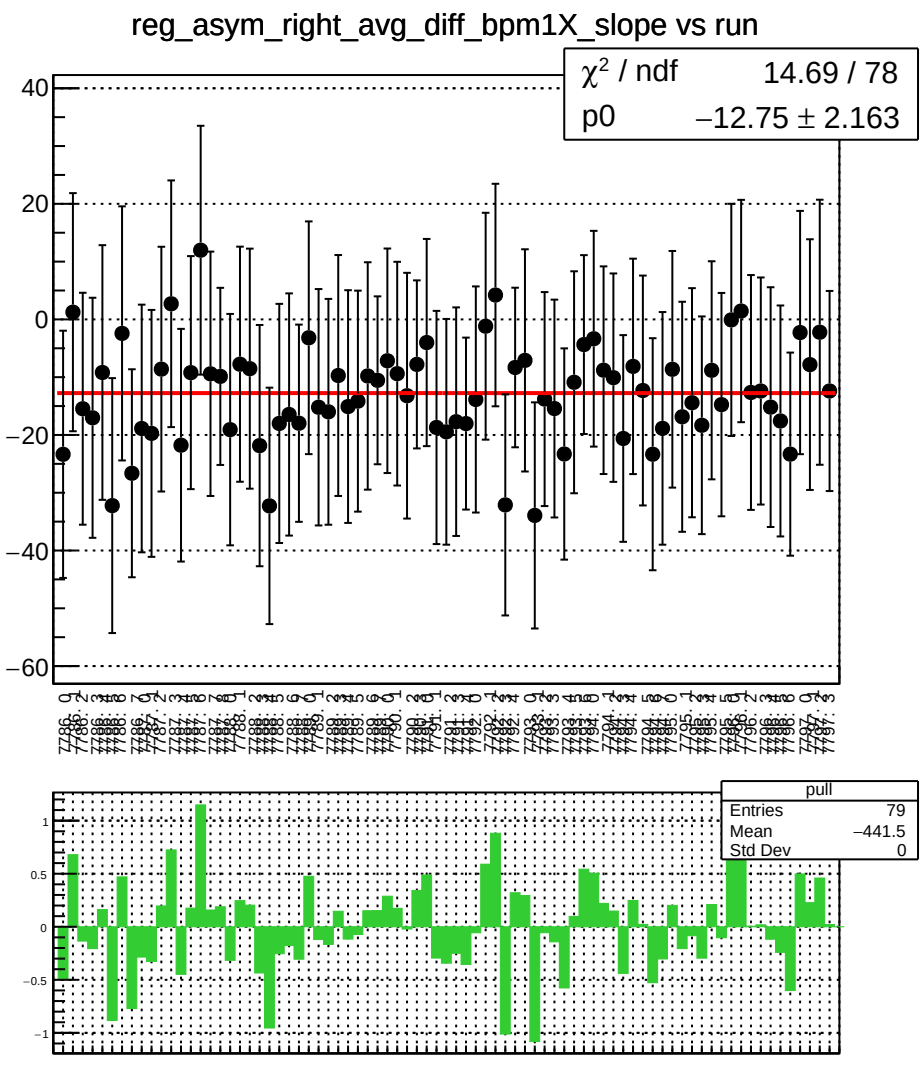

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.69 / 78
p0 −6.076 ± 1.205
pull
Entries 79
Mean −1426
Std Dev 0

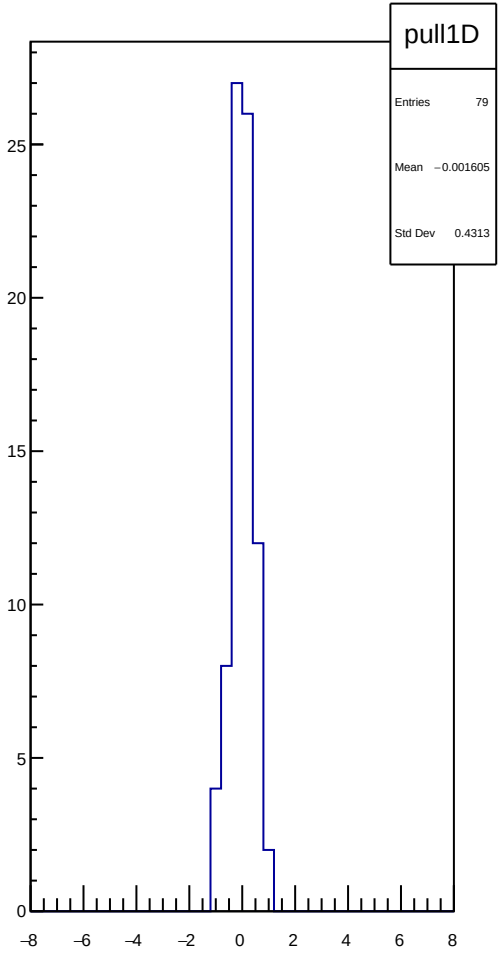

pull1D
Entries 79
Mean 0.001253
Std Dev 0.6232

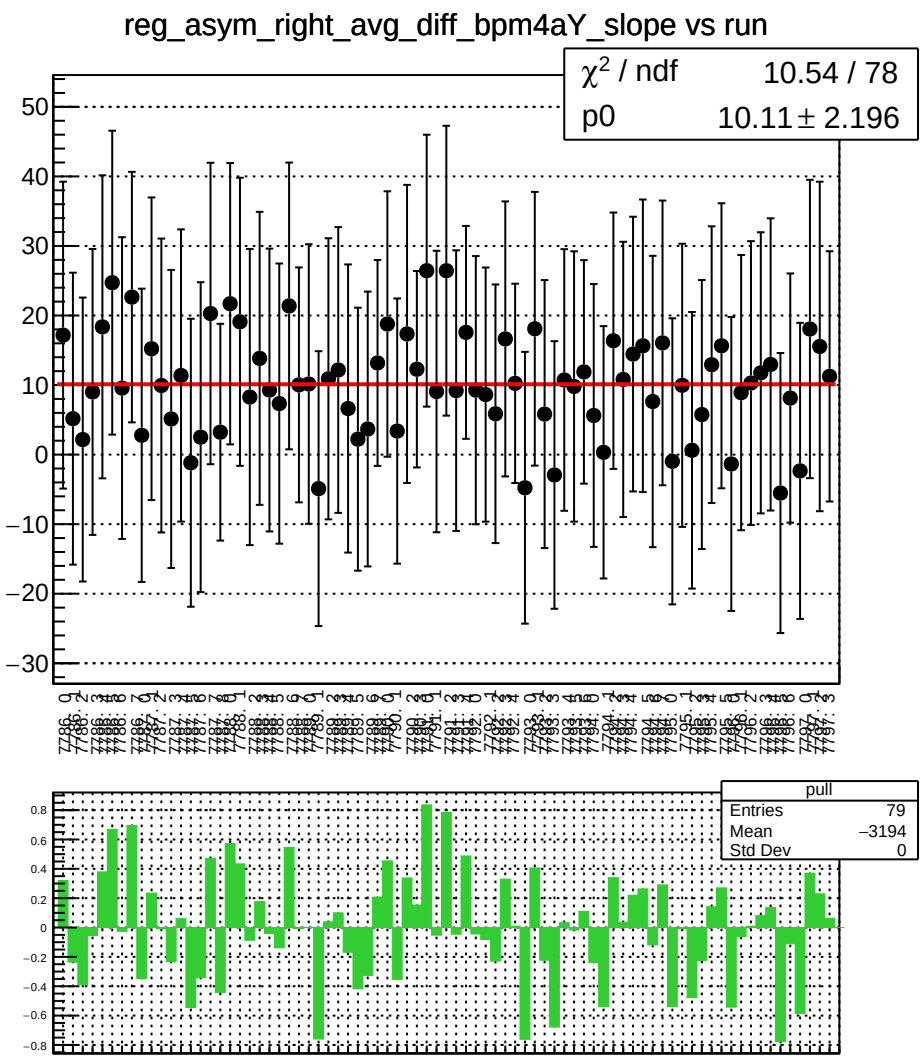

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.7 / 78
p0 3.754 ± 1.594
pull
Entries 79
Mean 298.9
Std Dev 0

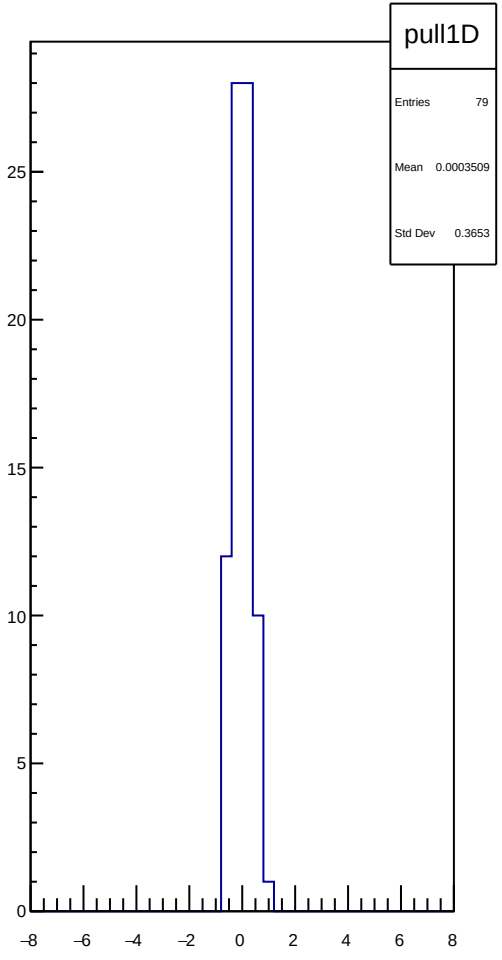

pull1D
Entries 79
Mean −0.007709
Std Dev 0.6433

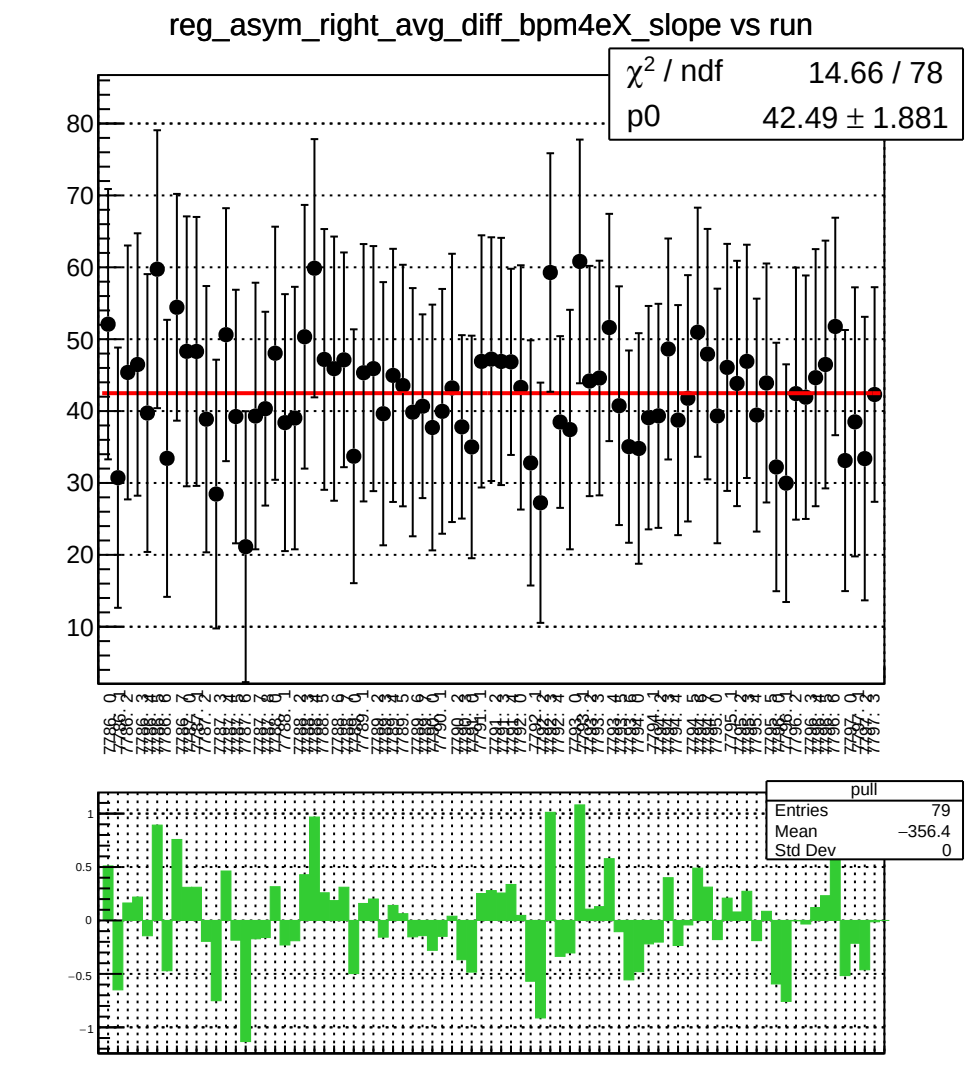

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 73.1 / 78
p0 −20.38 ± 0.04956
pull
Entries 79
Mean 497.7
Std Dev 0
pull1D
Entries 79
Mean −0.01208
Std Dev 0.9619

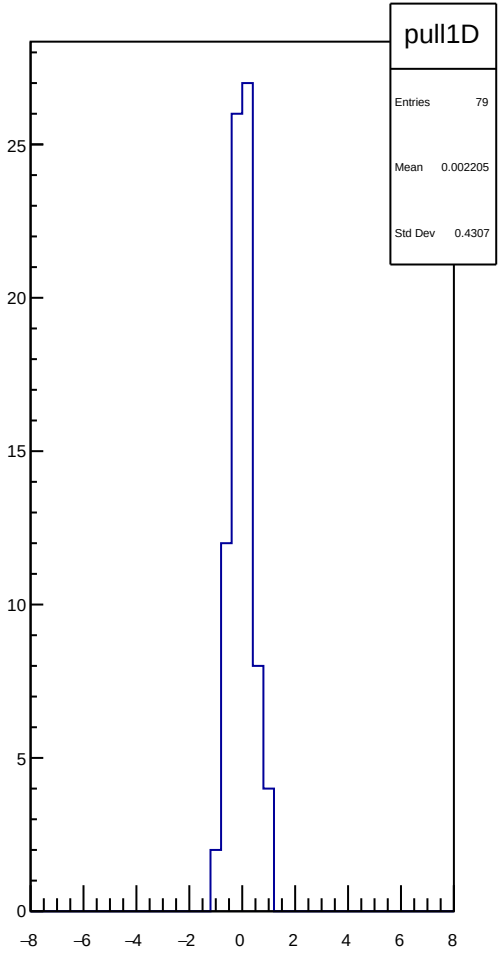

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 14.69 / 78
p0 −12.75 ± 2.163
pull
Entries 79
Mean −441.5
Std Dev 0

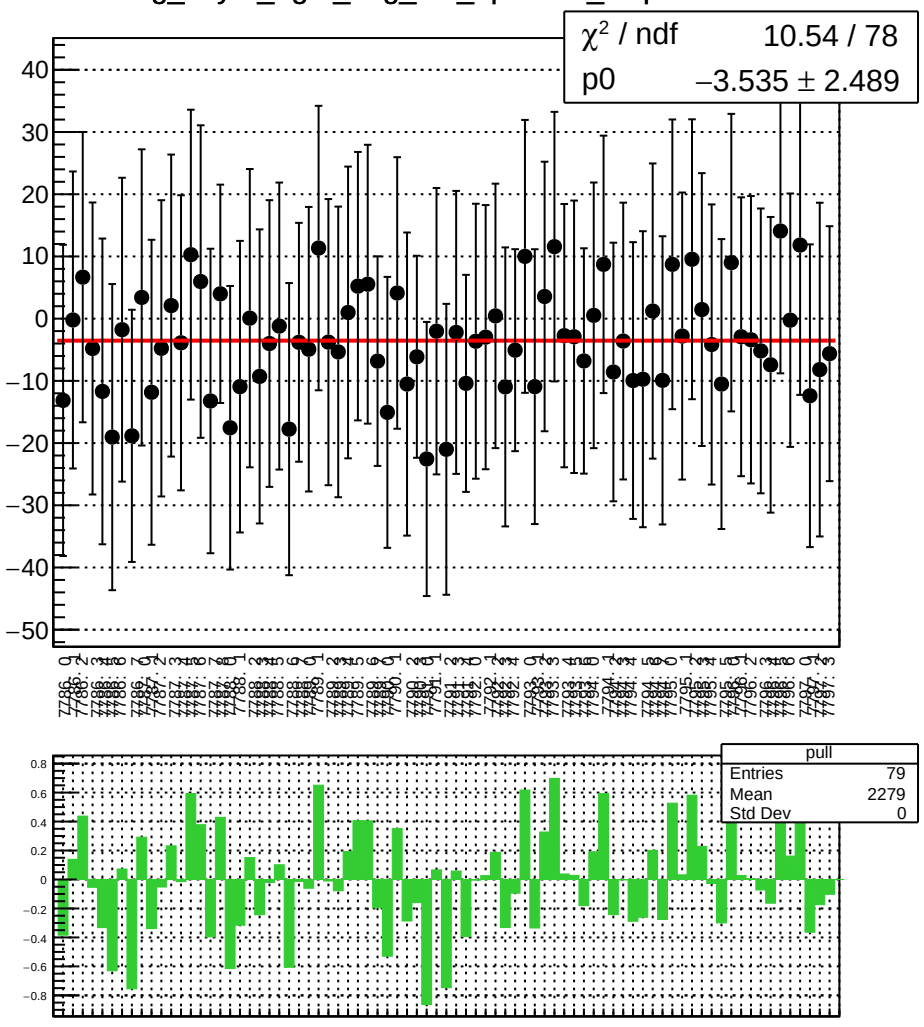

pull1D
Entries 79
Mean −0.001605
Std Dev 0.4313

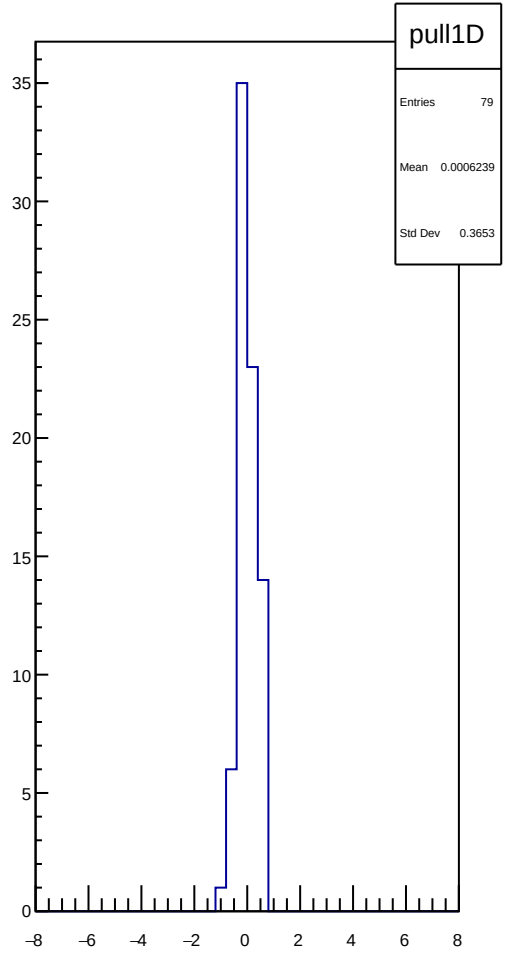

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.54 / 78
p0 10.11 ± 2.196
pull
Entries 79
Mean −3194
Std Dev 0

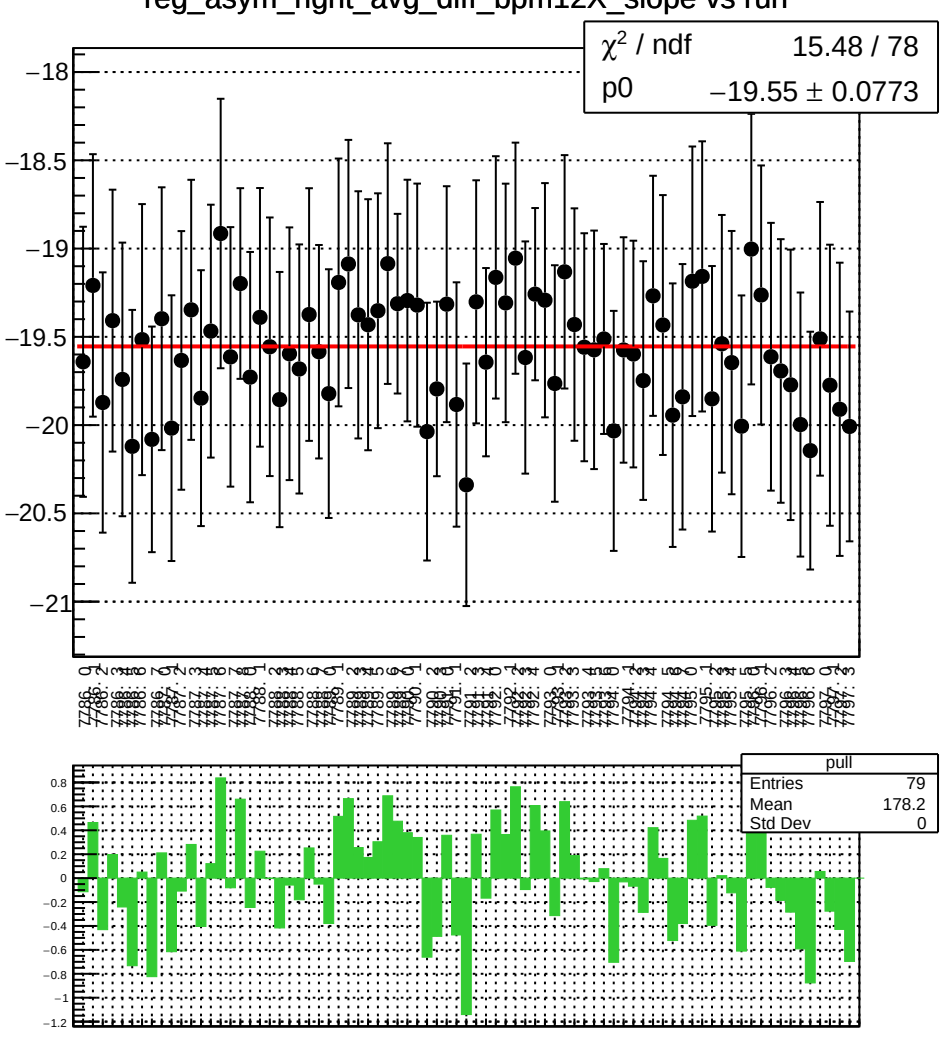

pull1D
Entries 79
Mean 0.0003509
Std Dev 0.3653

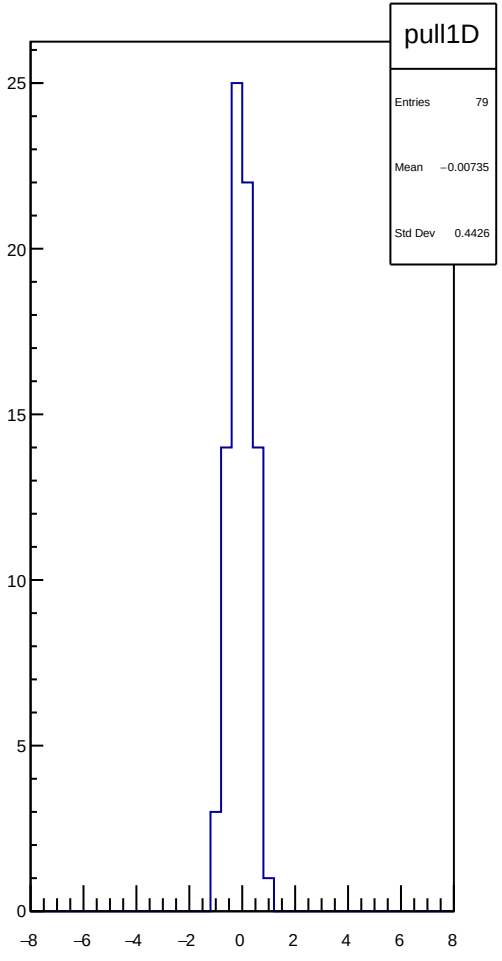

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.66 / 78
p0 42.49 ± 1.881
pull
Entries 79
Mean −356.4
Std Dev 0

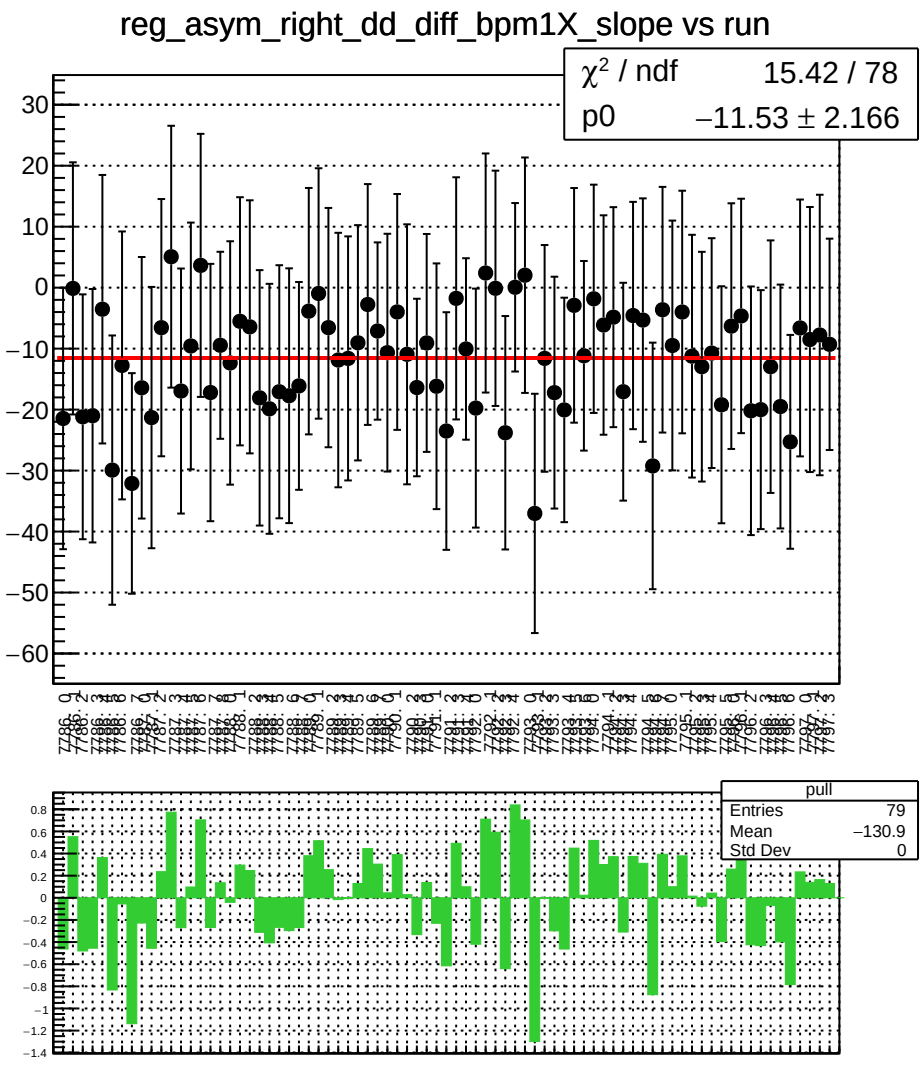

pull1D
Entries 79
Mean 0.002205
Std Dev 0.4307

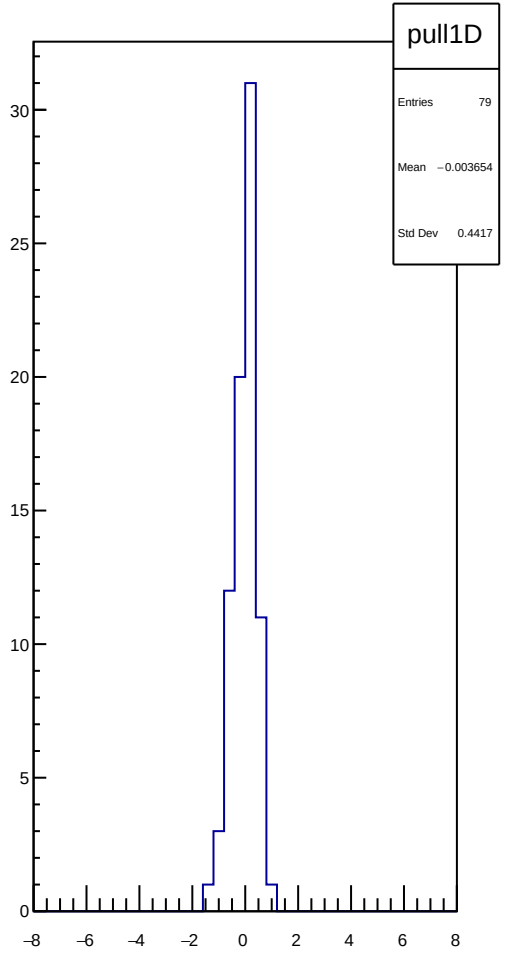

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.54 / 78
p0 −3.535 ± 2.489
pull
Entries 79
Mean 2279
Std Dev 0

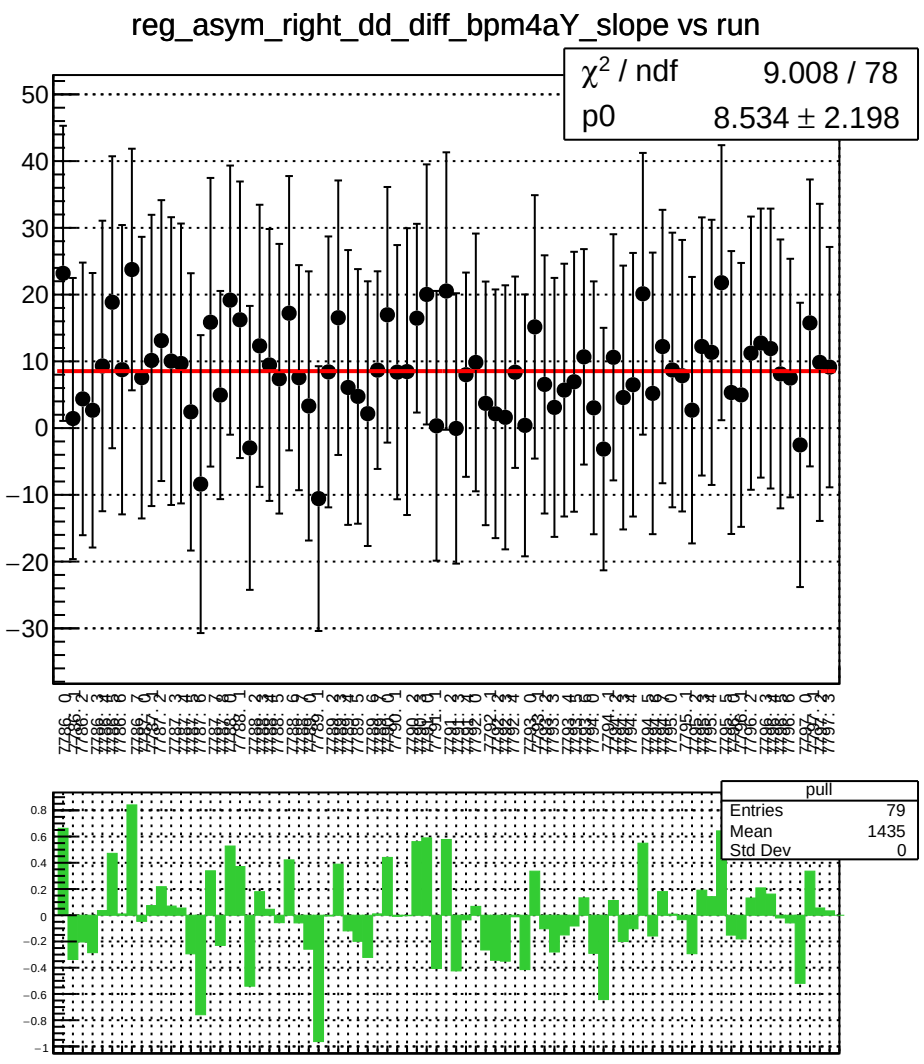

pull1D
Entries 79
Mean 0.0006239
Std Dev 0.3653

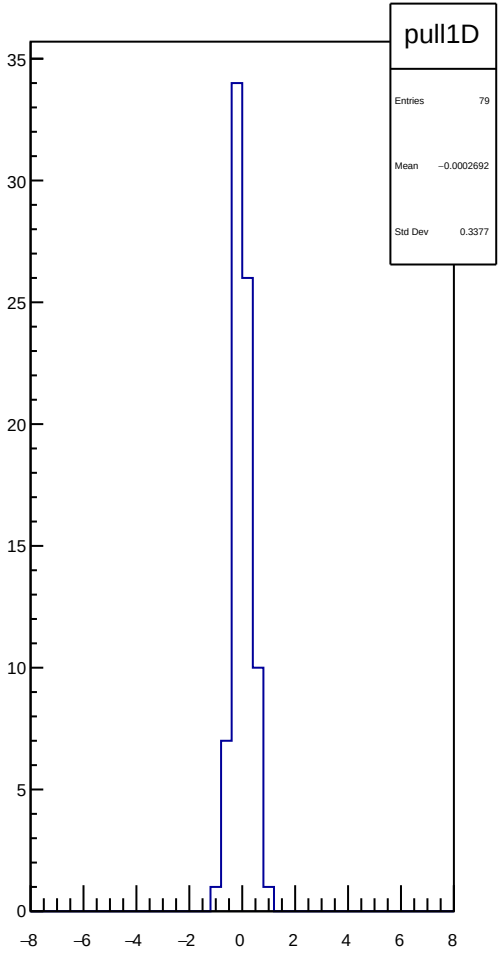

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 15.48 / 78
p0 −19.55 ± 0.0773
pull
Entries 79
Mean 178.2
Std Dev 0

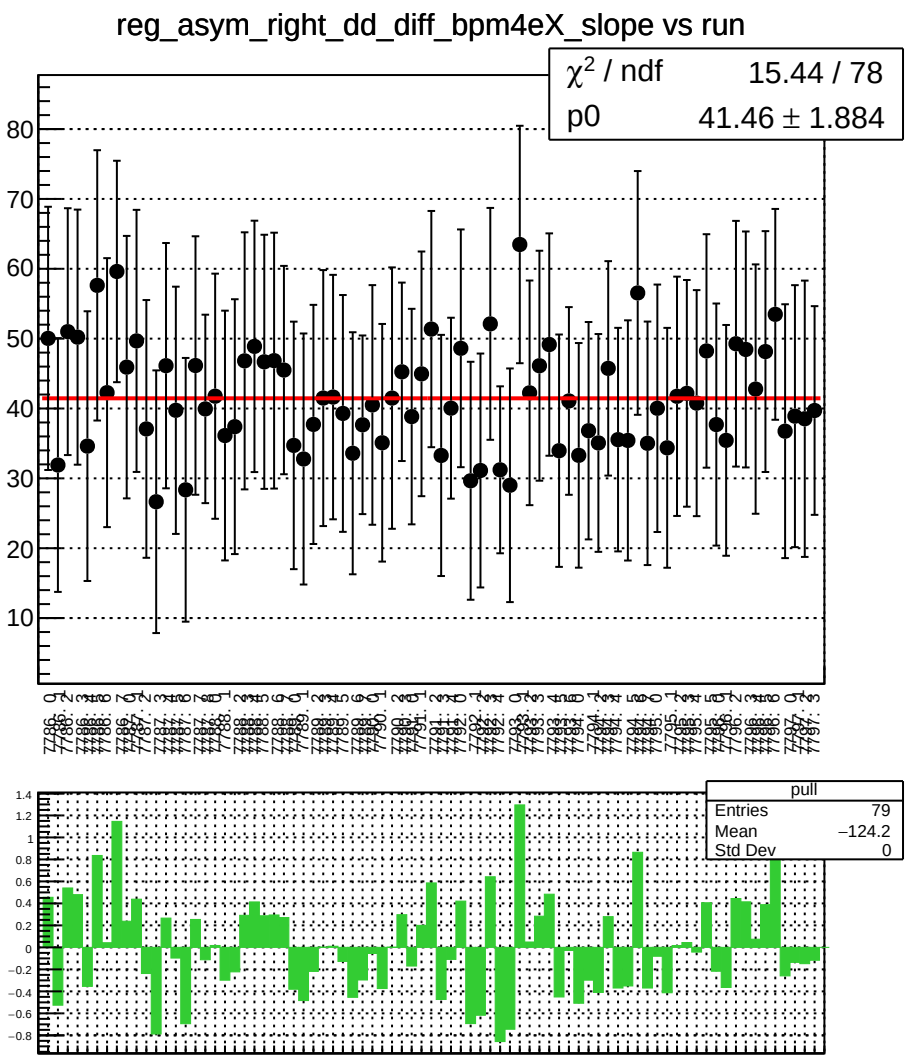

pull1D
Entries 79
Mean −0.00735
Std Dev 0.4426

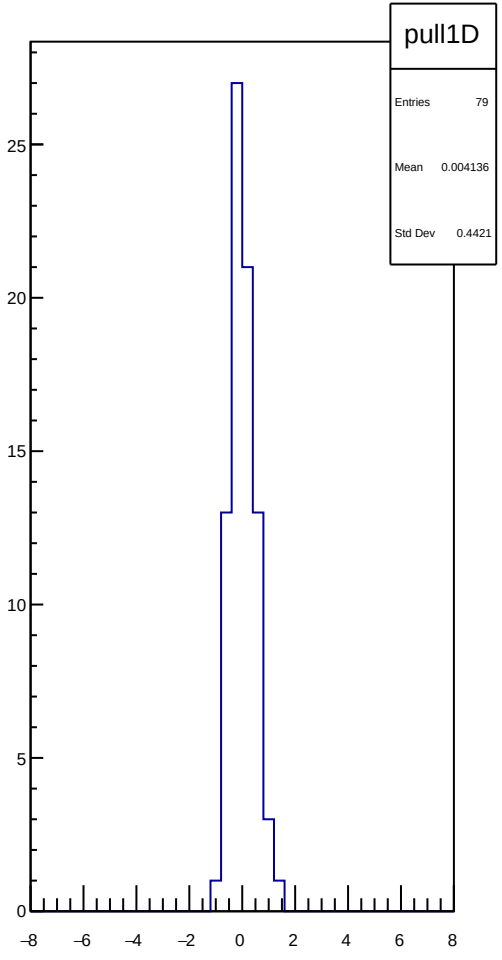

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 15.42 / 78
p0 −11.53 ± 2.166
pull
Entries 79
Mean −130.9
Std Dev 0

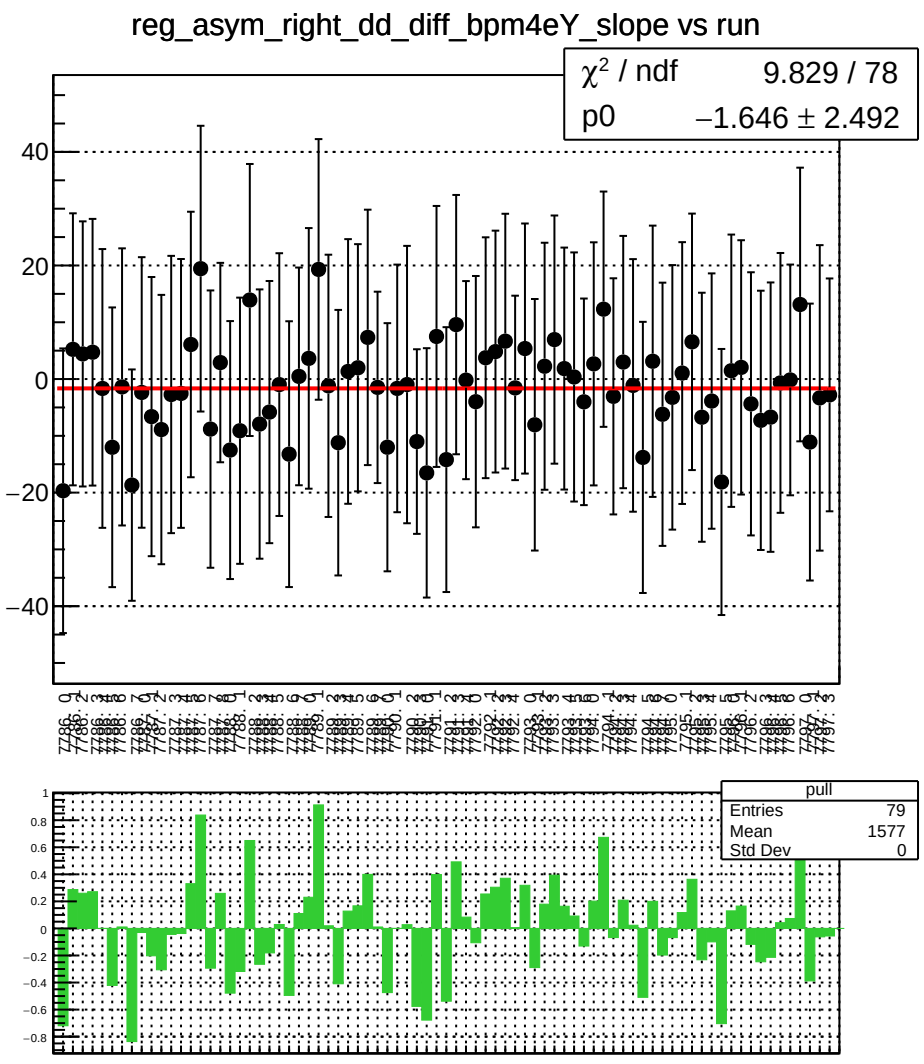

pull1D
Entries 79
Mean −0.003654
Std Dev 0.4417

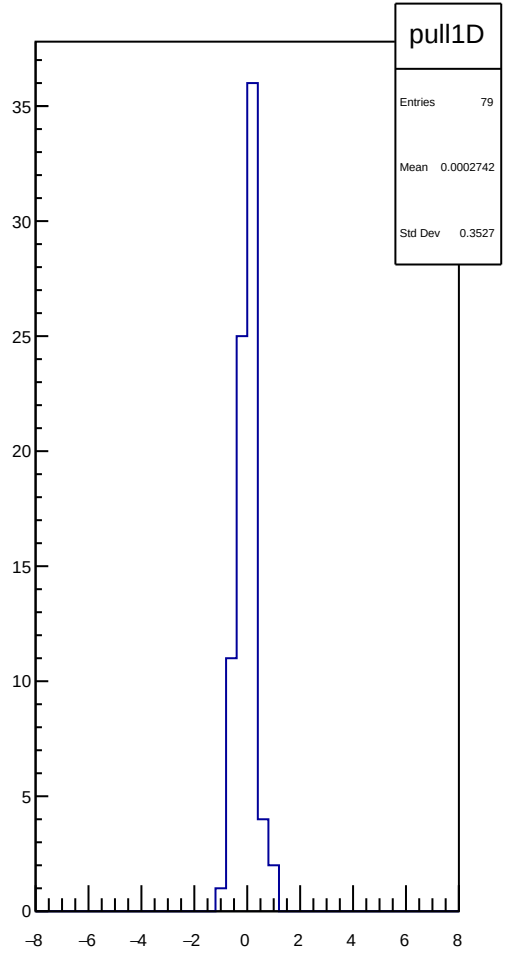

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.008 / 78
p0 8.534 ± 2.198
pull
Entries 79
Mean 1435
Std Dev 0

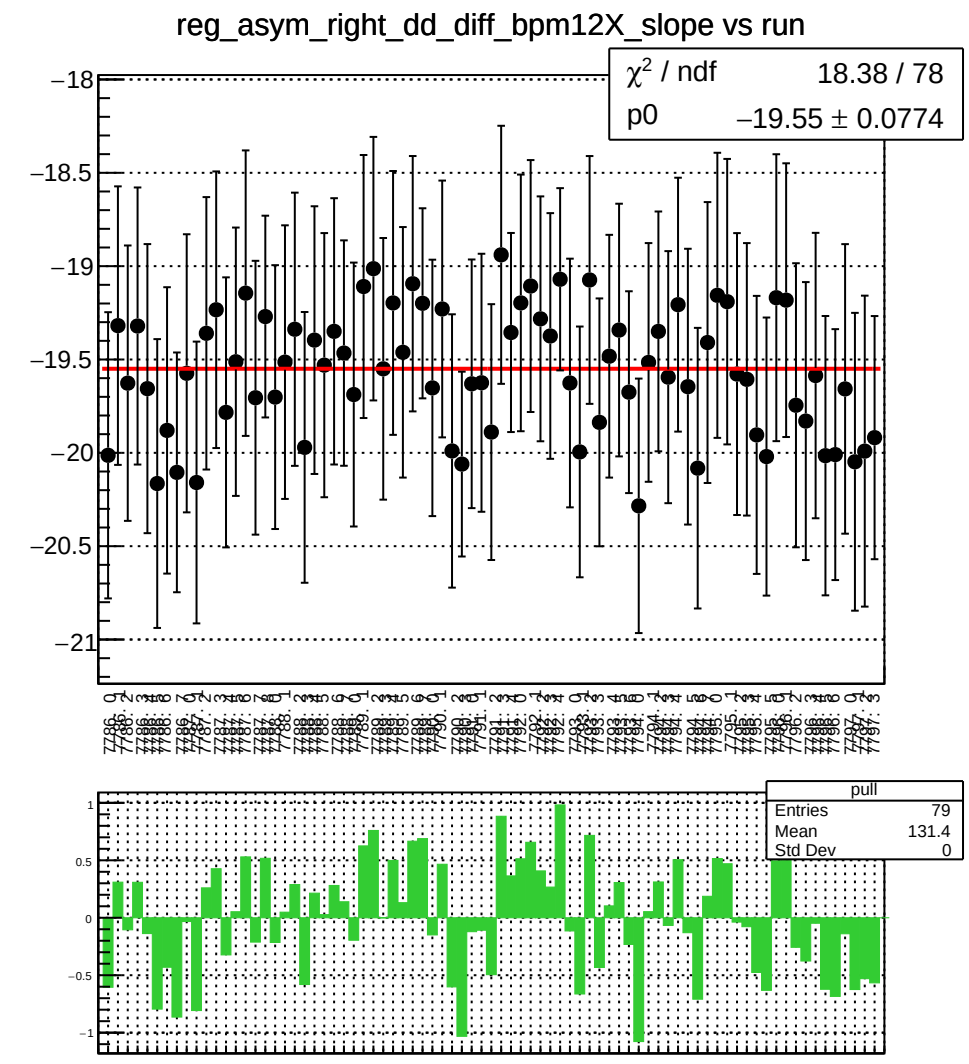

pull1D
Entries 79
Mean −0.0002692
Std Dev 0.3377

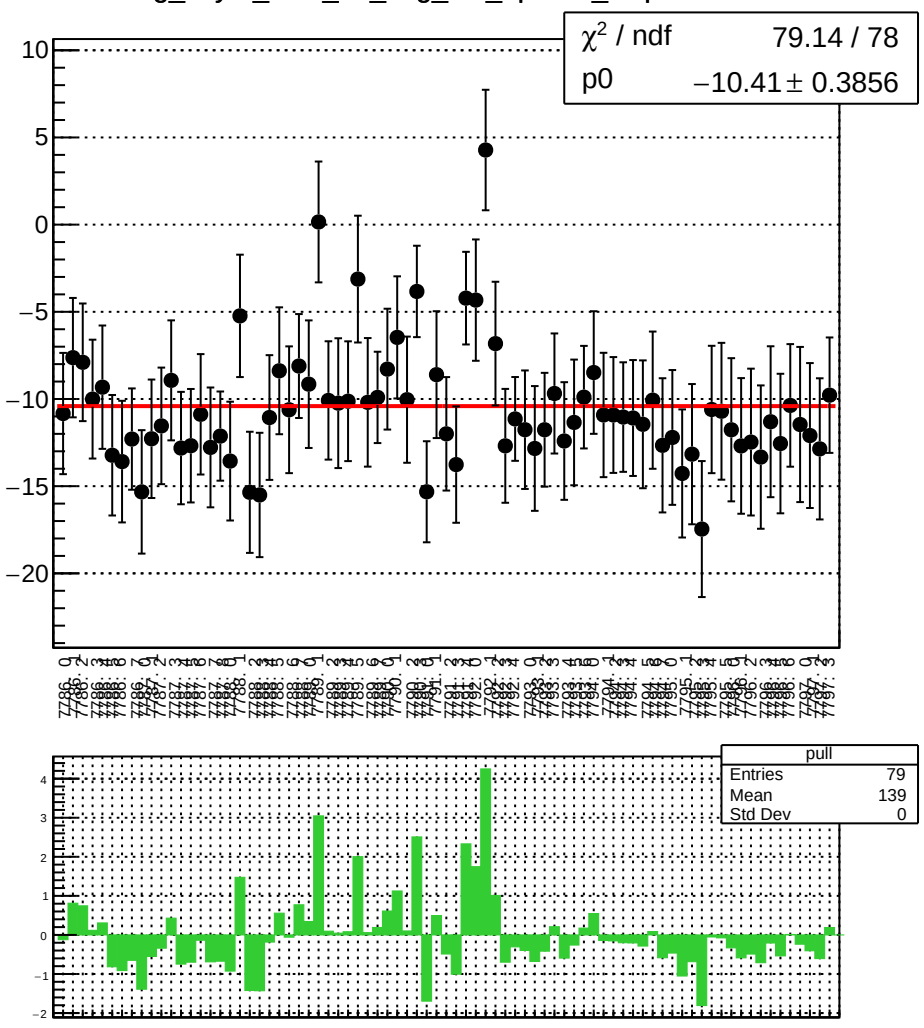

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.44 / 78
p0 41.46 ± 1.884
pull
Entries 79
Mean −124.2
Std Dev 0

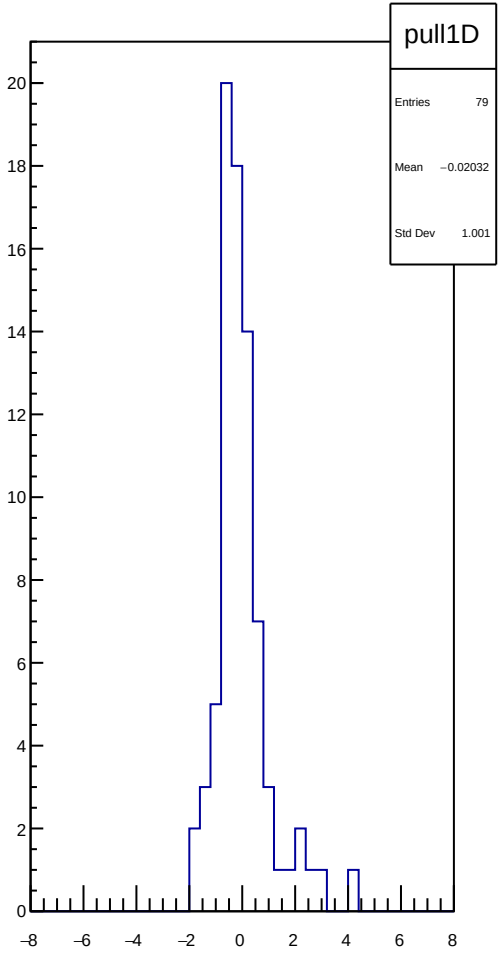

pull1D
Entries 79
Mean 0.004136
Std Dev 0.4421

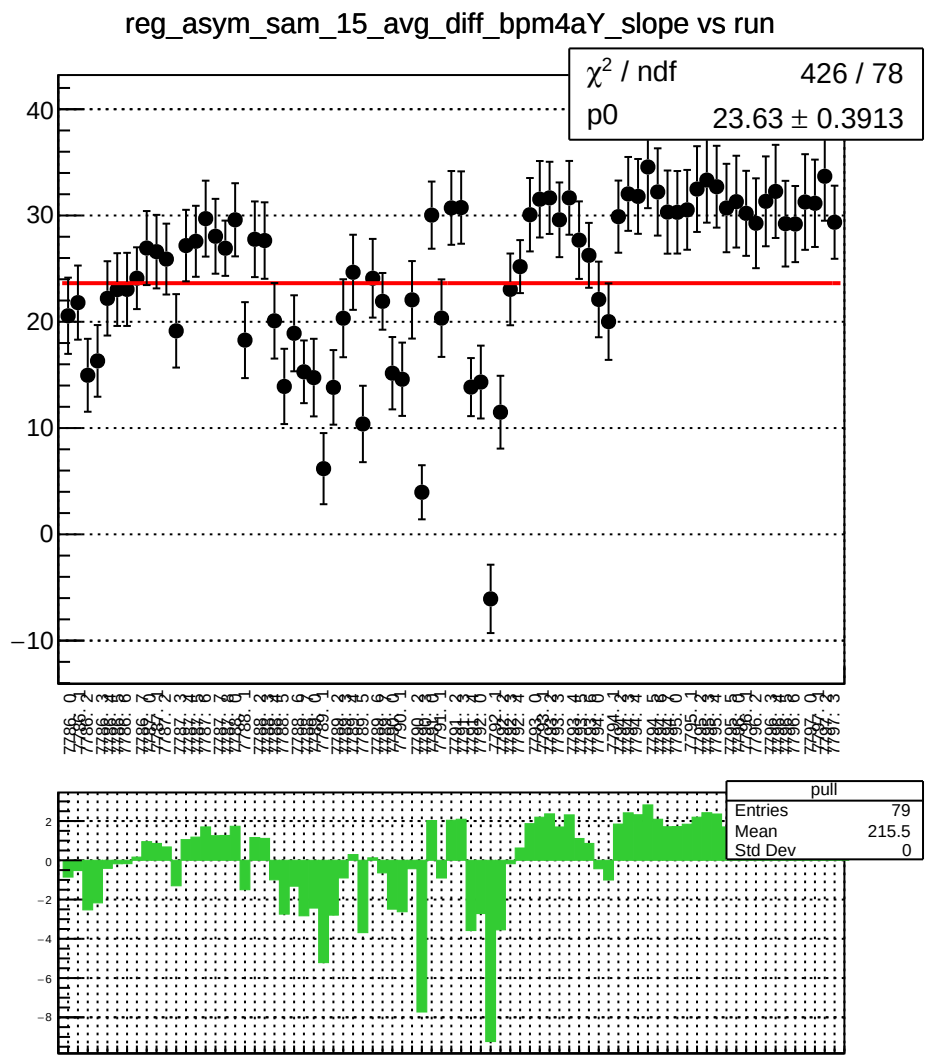

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.829 / 78
p0 −1.646 ± 2.492
pull
Entries 79
Mean 1577
Std Dev 0

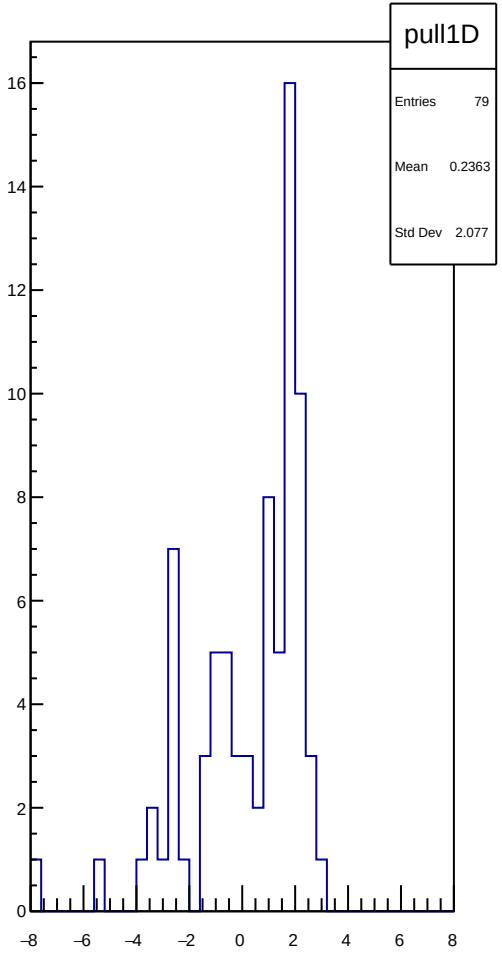

pull1D
Entries 79
Mean 0.0002742
Std Dev 0.3527

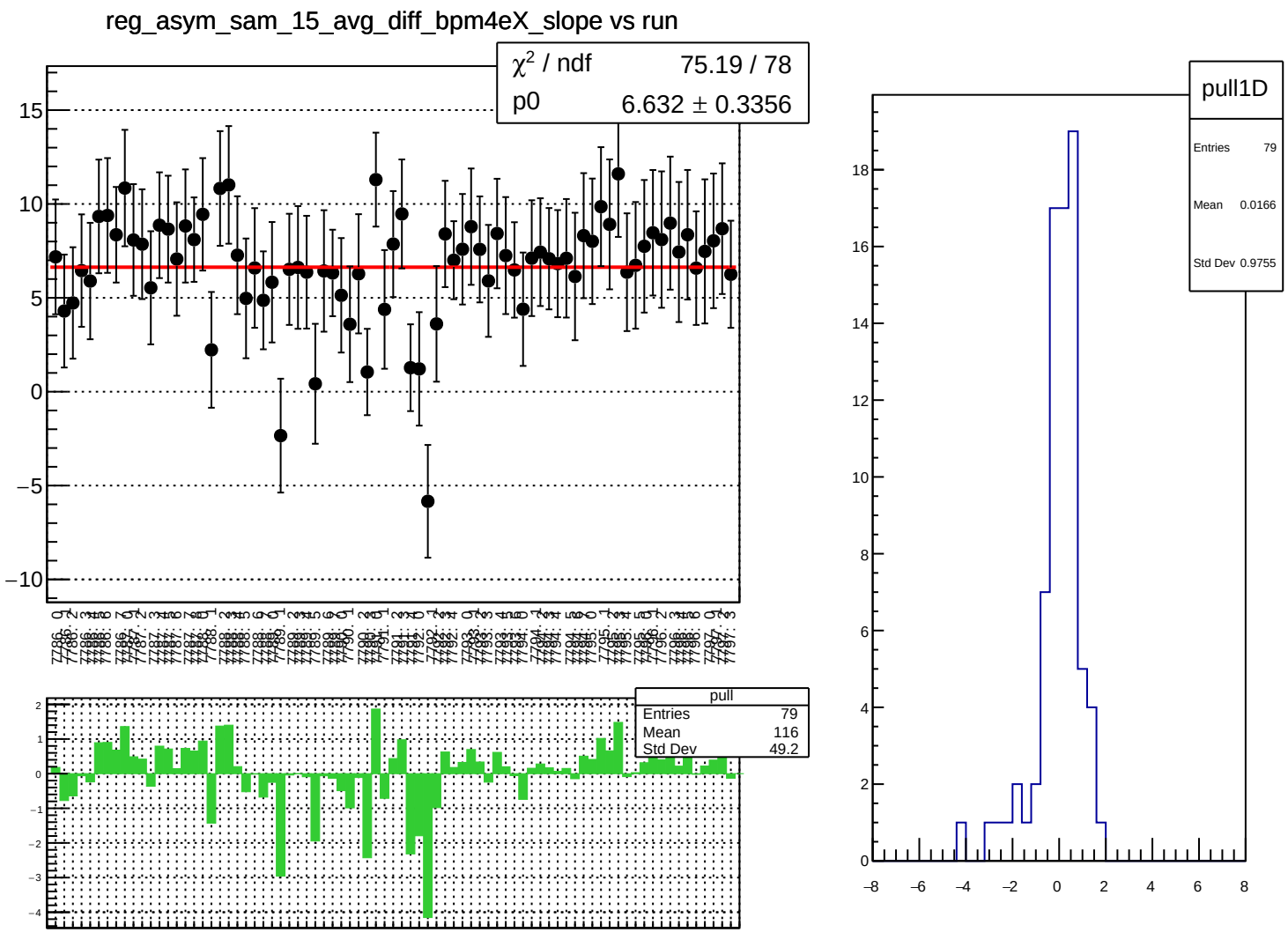

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 18.38 / 78
p0 −19.55 ± 0.0774
pull
Entries 79
Mean 131.4
Std Dev 0
pull1D
Entries 79
Mean −0.01049
Std Dev 0.4822

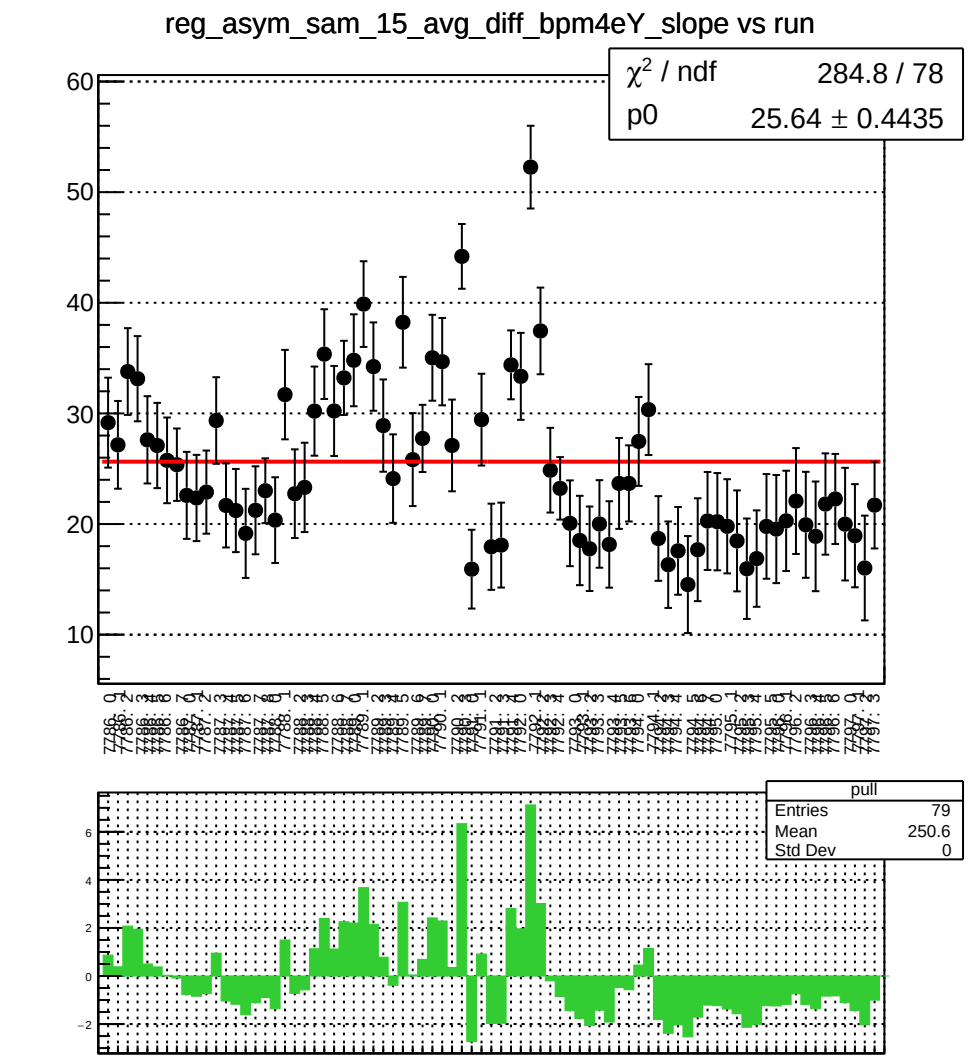

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 79.14 / 78
p0 −10.41 ± 0.3856
pull
Entries 79
Mean 139
Std Dev 0

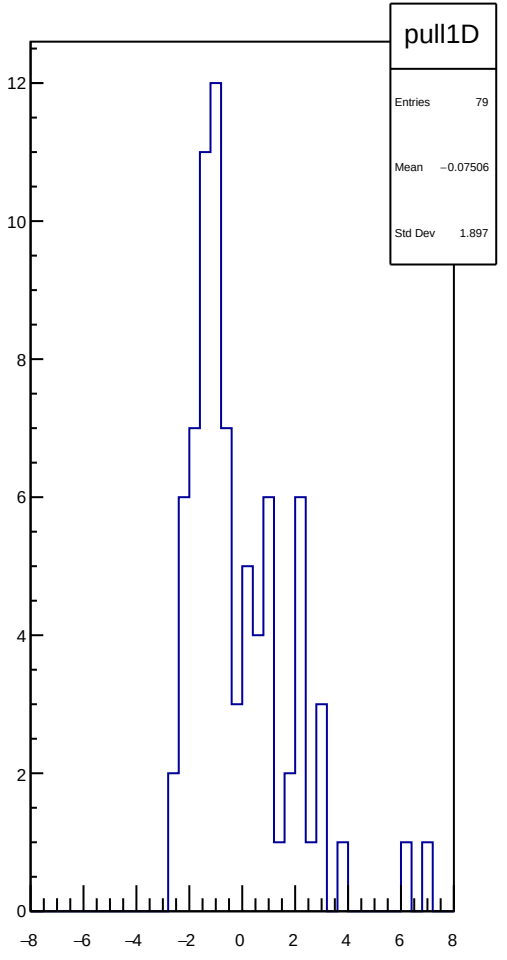

pull1D
Entries 79
Mean −0.02032
Std Dev 1.001

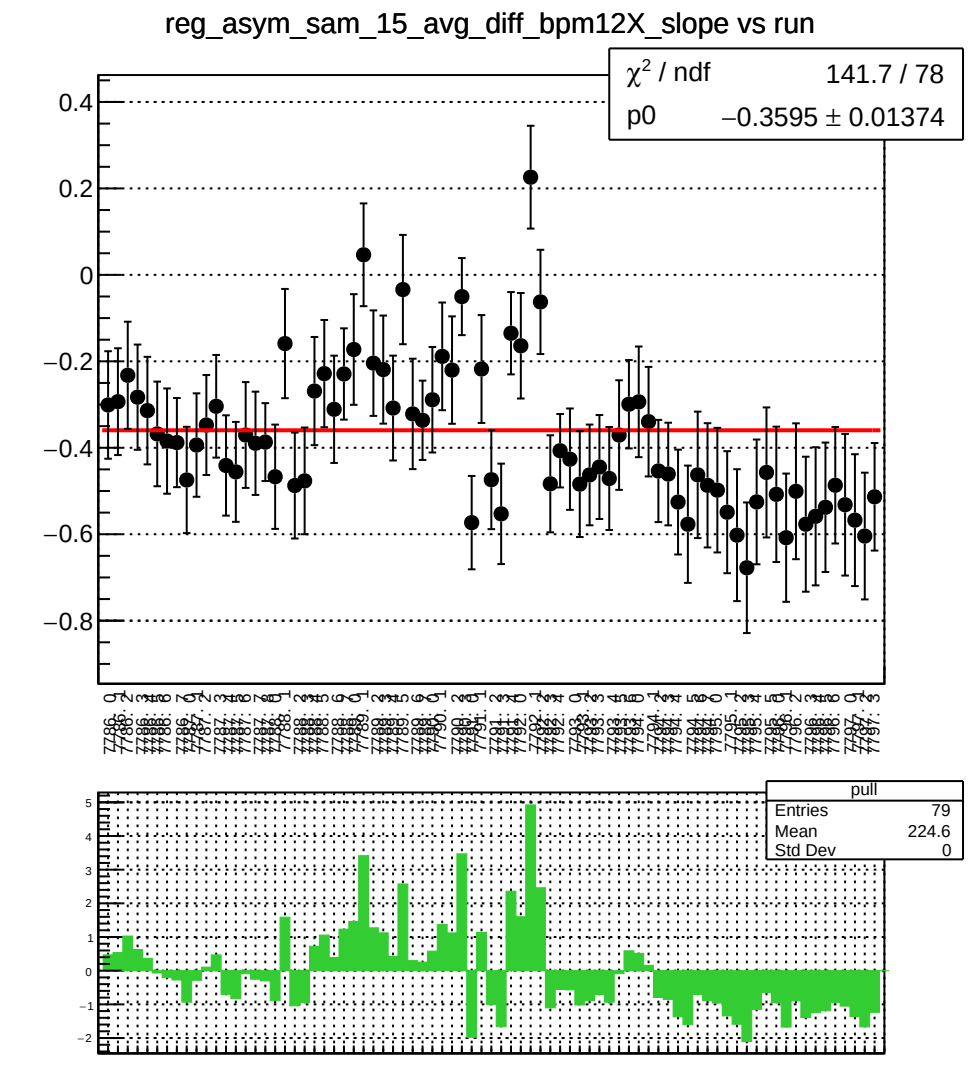

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 426 / 78
p0 23.63 ± 0.3913
pull
Entries 79
Mean 215.5
Std Dev 0

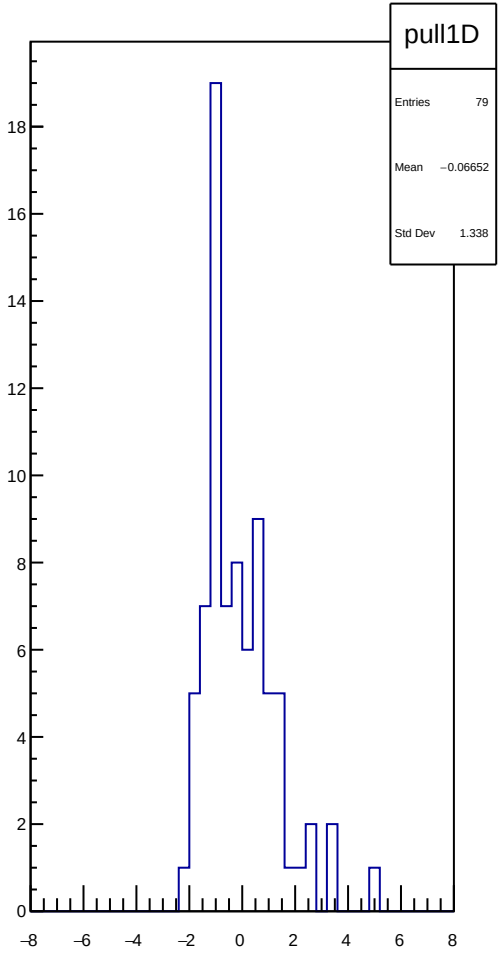

pull1D
Entries 79
Mean 0.2363
Std Dev 2.077

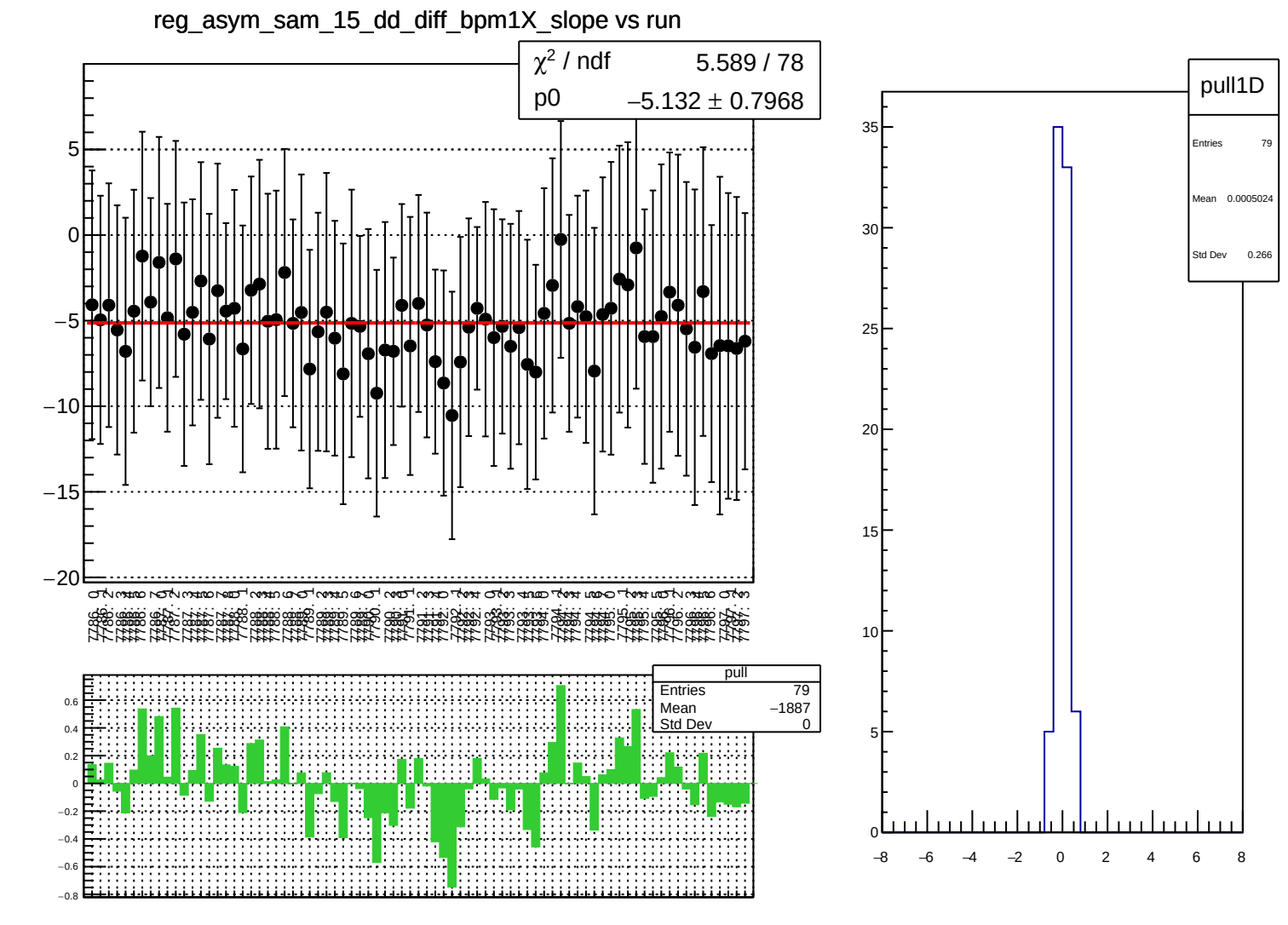

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.19 / 78
p0 6.632 ± 0.3356
pull
Entries 79
Mean 116
Std Dev 49.2
pull1D
Entries 79
Mean 0.0166
Std Dev 0.9755

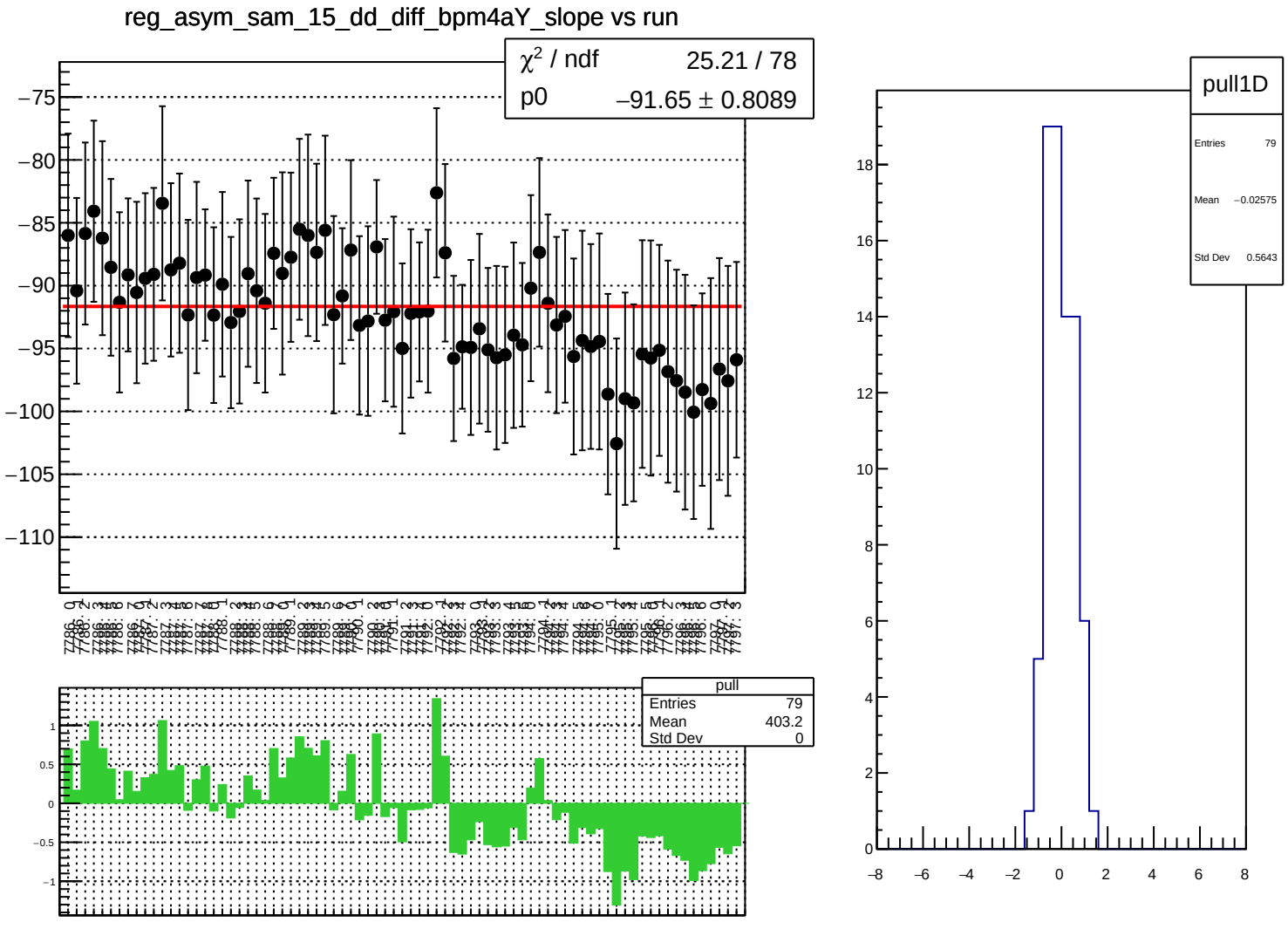

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 284.8 / 78
p0 25.64 ± 0.4435
pull
Entries 79
Mean 250.6
Std Dev 0

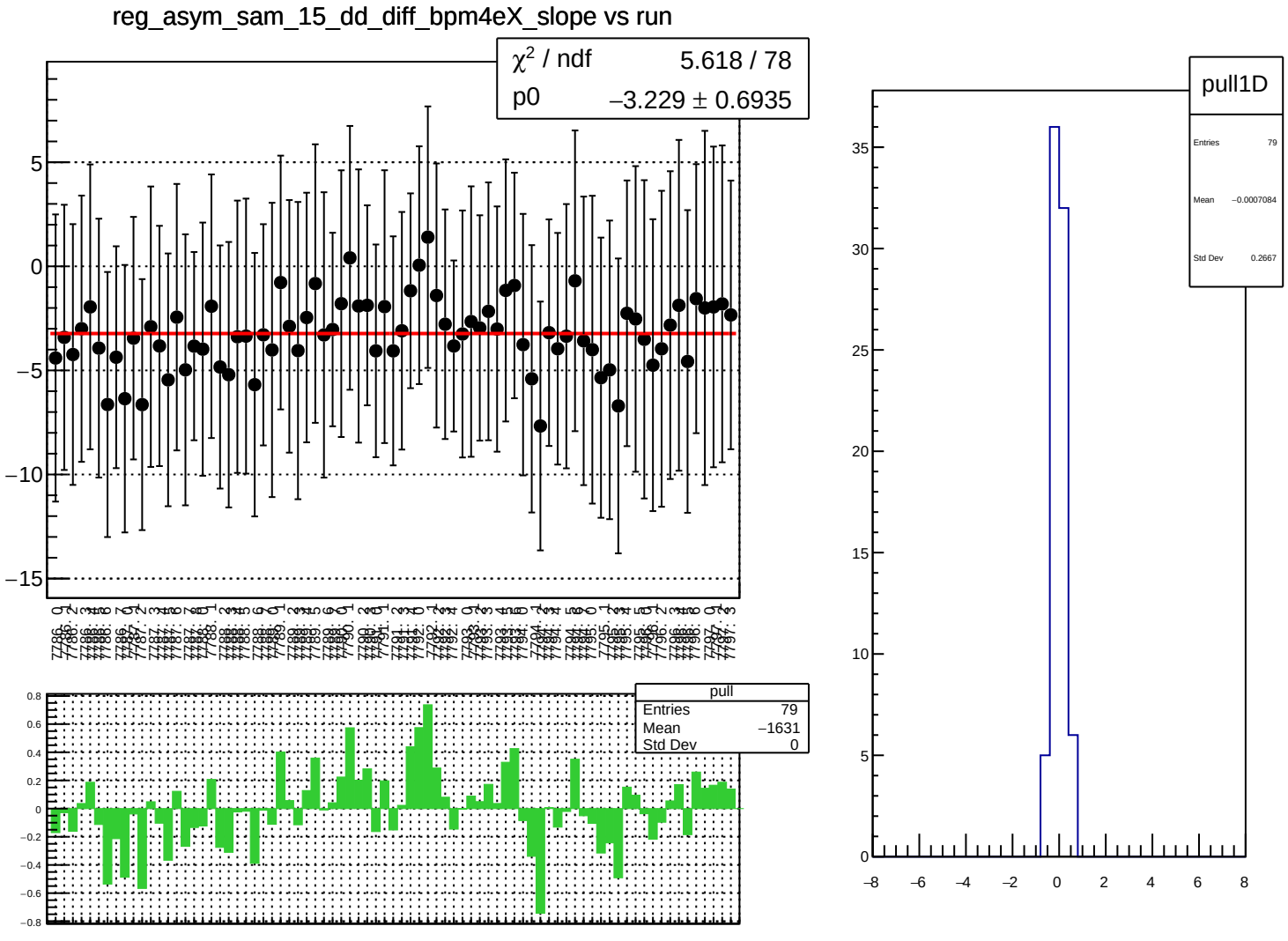

pull1D
Entries 79
Mean −0.07506
Std Dev 1.897

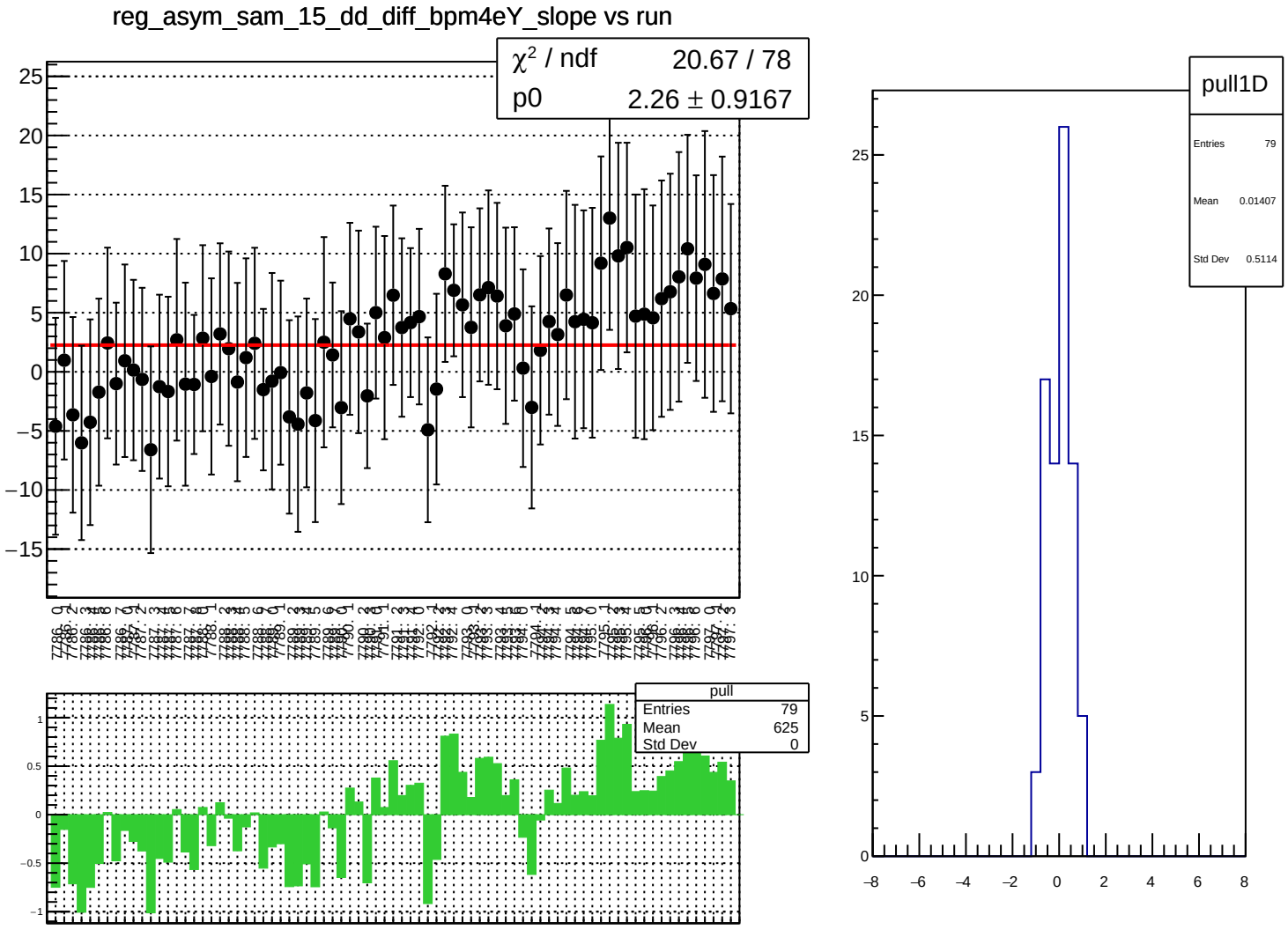

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 141.7 / 78
p0 −0.3595 ± 0.01374
pull
Entries 79
Mean 224.6
Std Dev 0

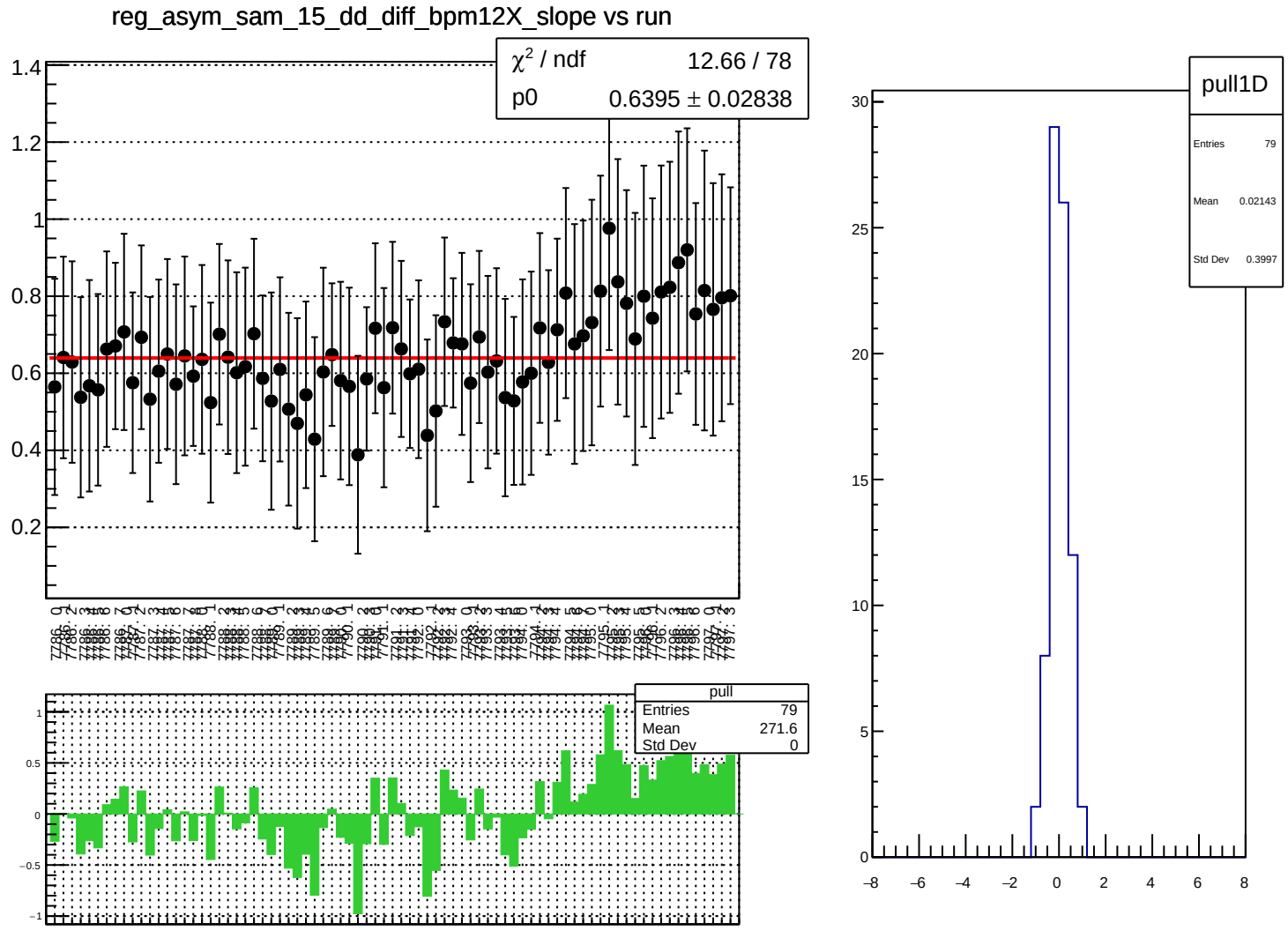

pull1D
Entries 79
Mean −0.06652
Std Dev 1.338

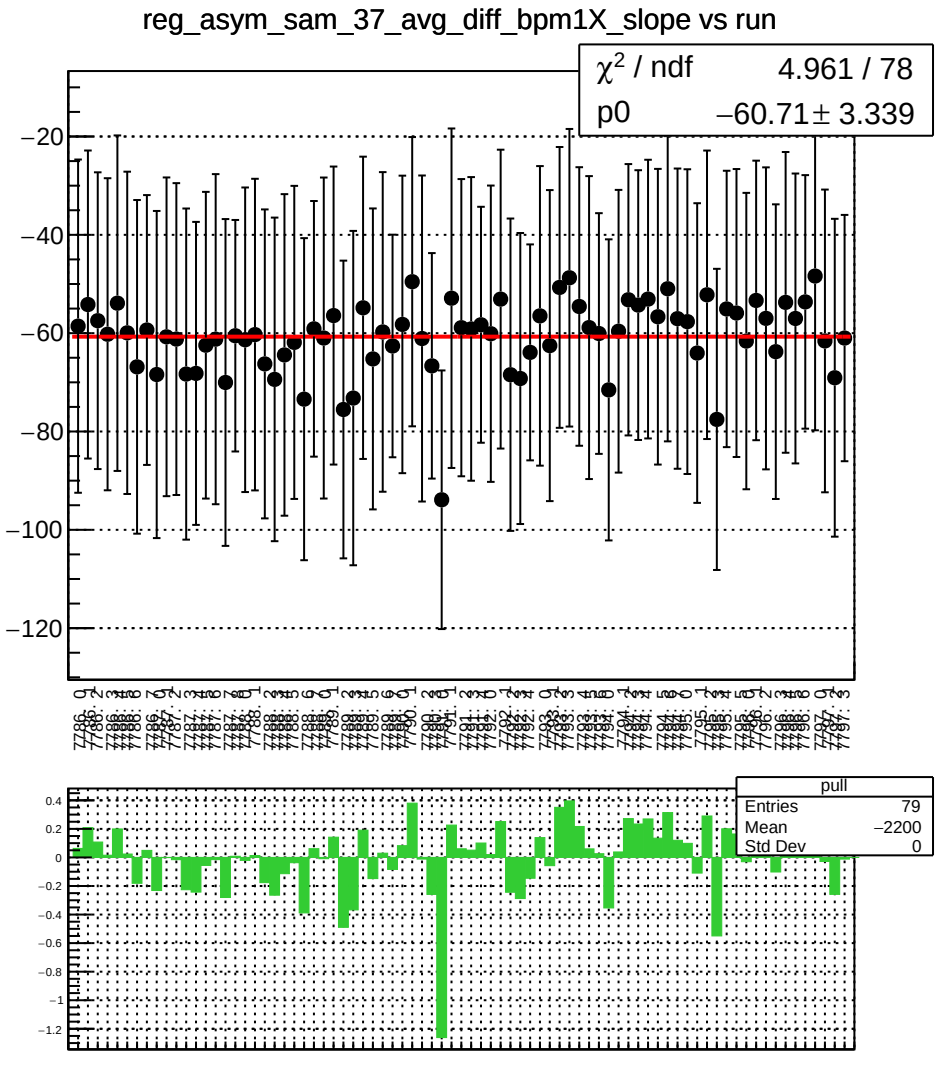

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 5.589 / 78
p0 −5.132 ± 0.7968
pull
Entries 79
Mean −1887
Std Dev 0
pull1D
Entries 79
Mean 0.0005024
Std Dev 0.266

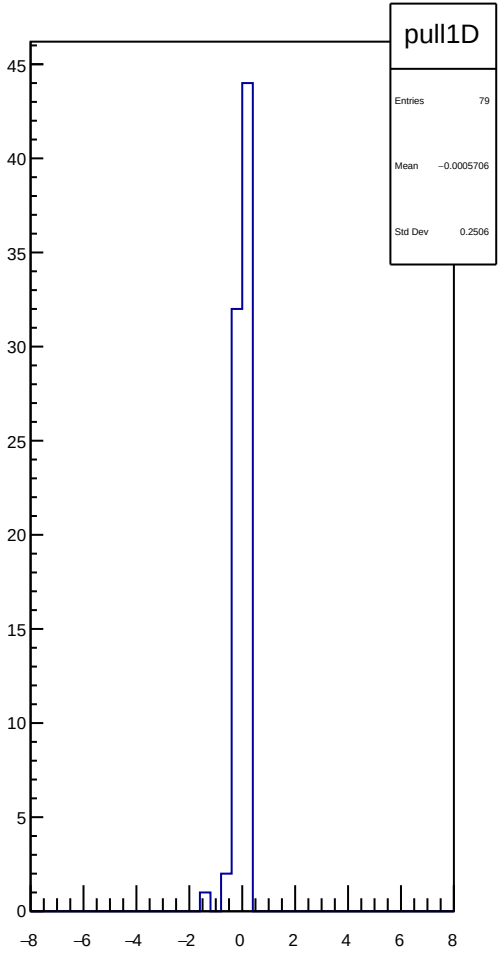

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.21 / 78
p0 −91.65 ± 0.8089
pull
Entries 79
Mean 403.2
Std Dev 0
pull1D
Entries 79
Mean −0.02575
Std Dev 0.5643

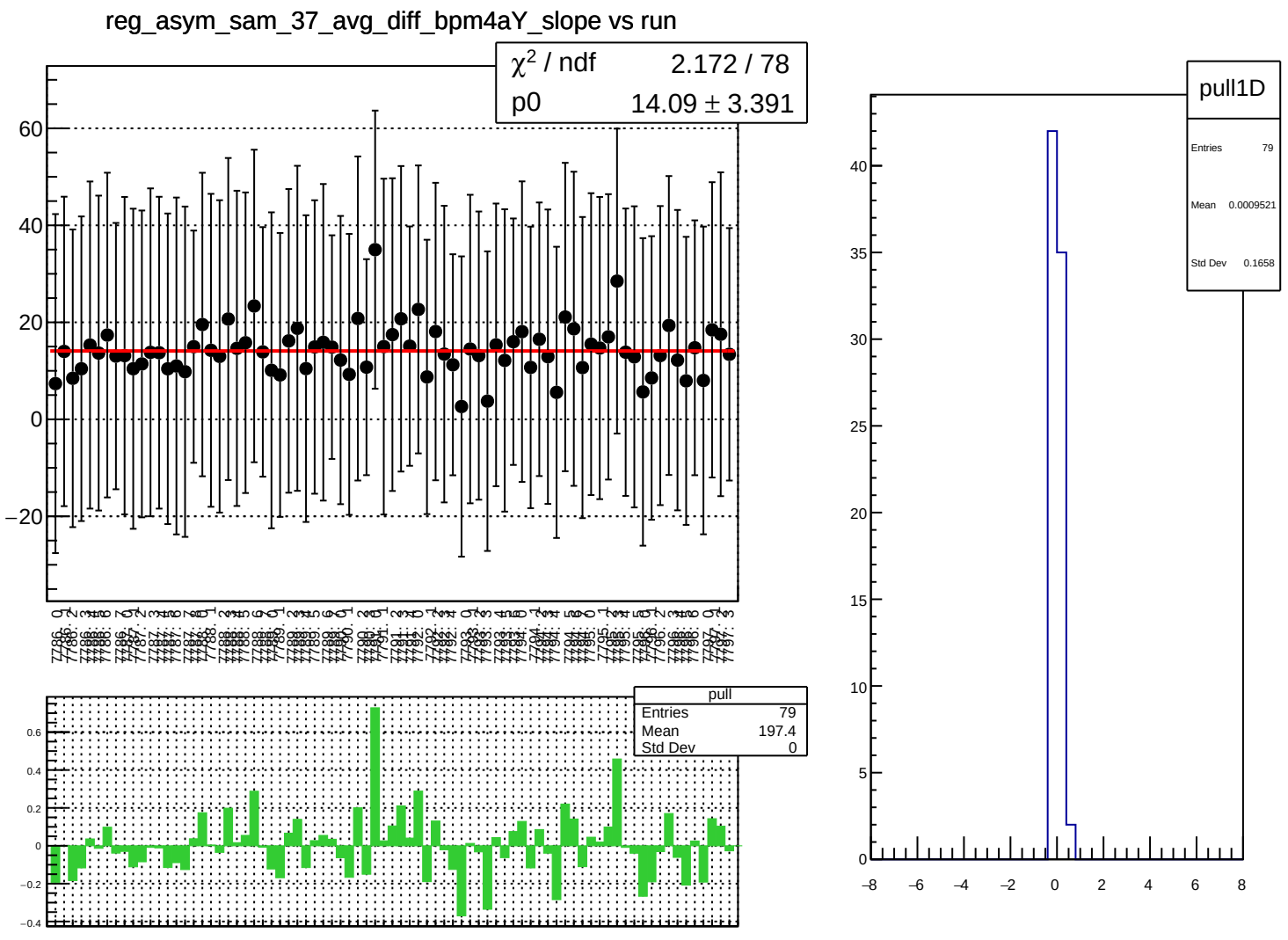

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.618 / 78
p0 −3.229 ± 0.6935
pull
Entries 79
Mean −1631
Std Dev 0
pull1D
Entries 79
Mean −0.0007084
Std Dev 0.2667

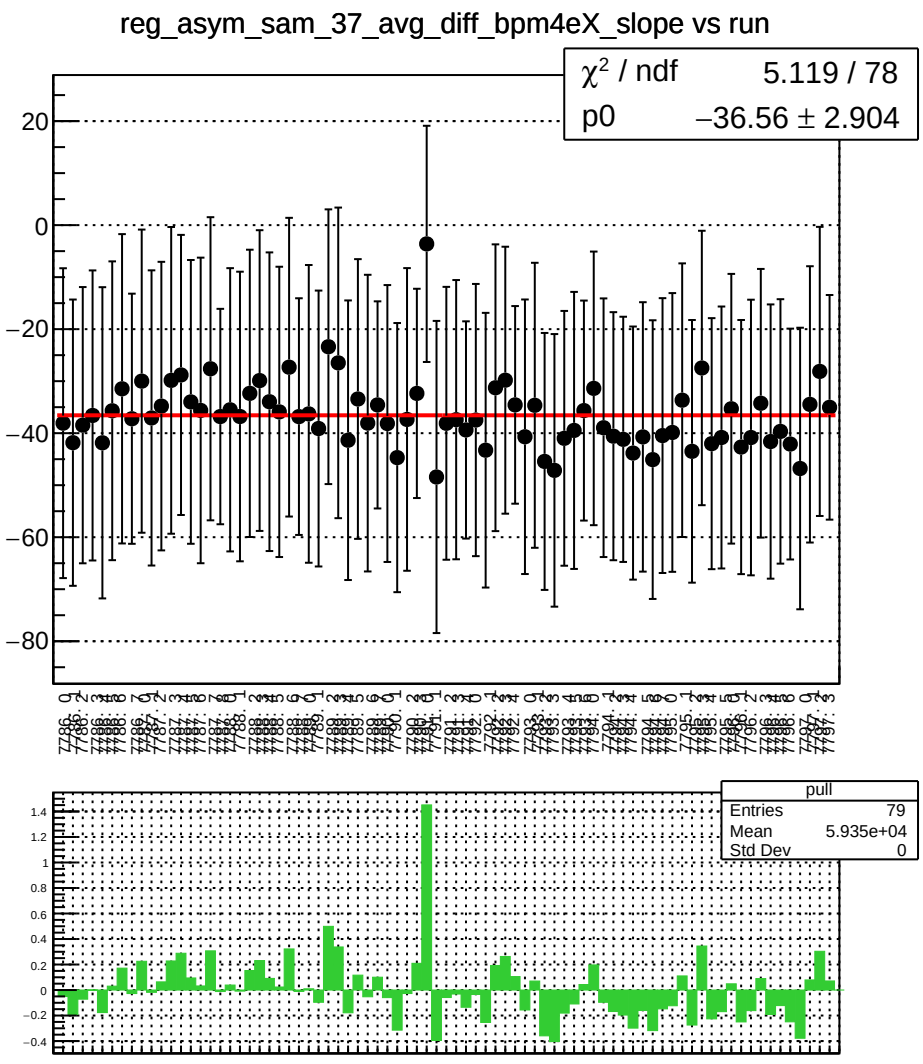

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.67 / 78
p0 2.26 ± 0.9167
pull
Entries 79
Mean 625
Std Dev 0
pull1D
Entries 79
Mean 0.01407
Std Dev 0.5114

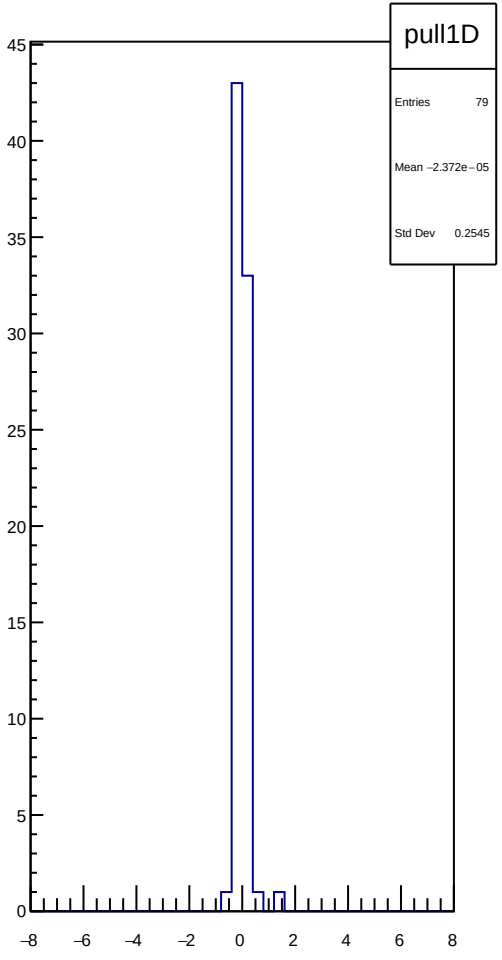

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 12.66 / 78
p0 0.6395 ± 0.02838
pull
Entries 79
Mean 271.6
Std Dev 0
pull1D
Entries 79
Mean 0.02143
Std Dev 0.3997

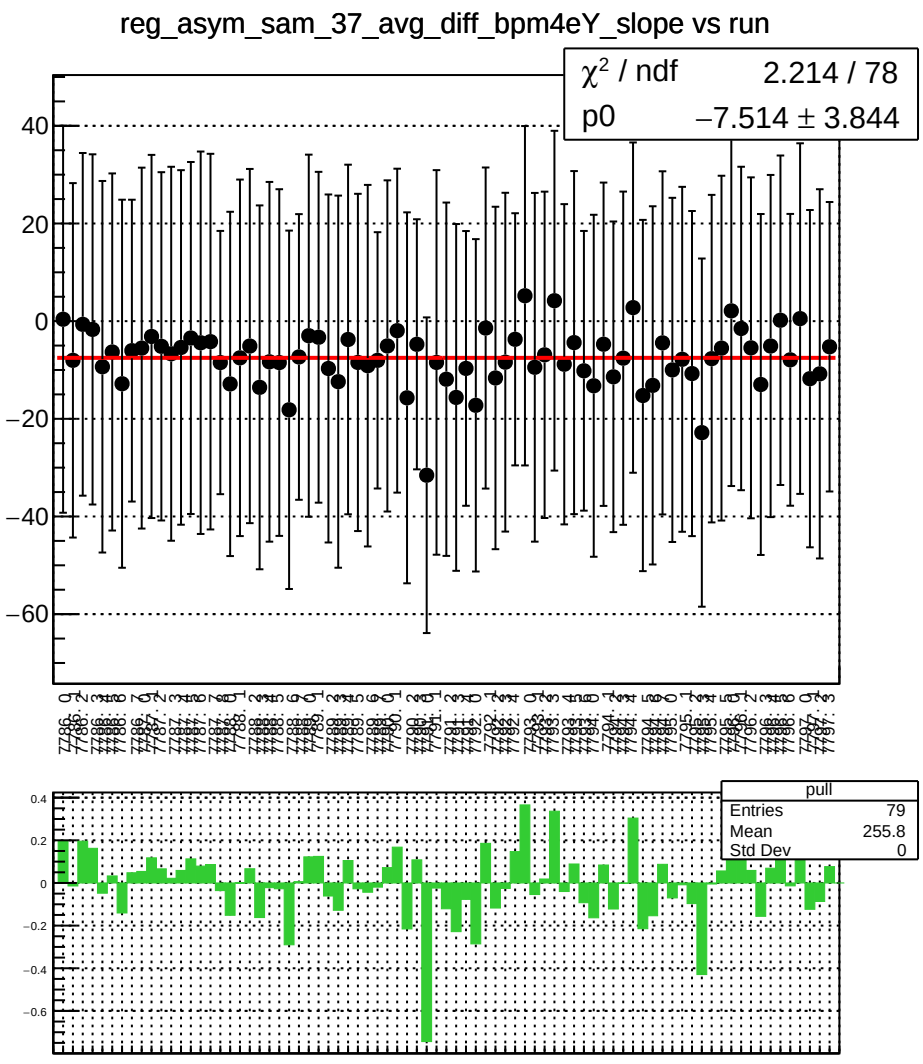

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 4.961 / 78
p0 −60.71± 3.339
pull
Entries 79
Mean −2200
Std Dev 0

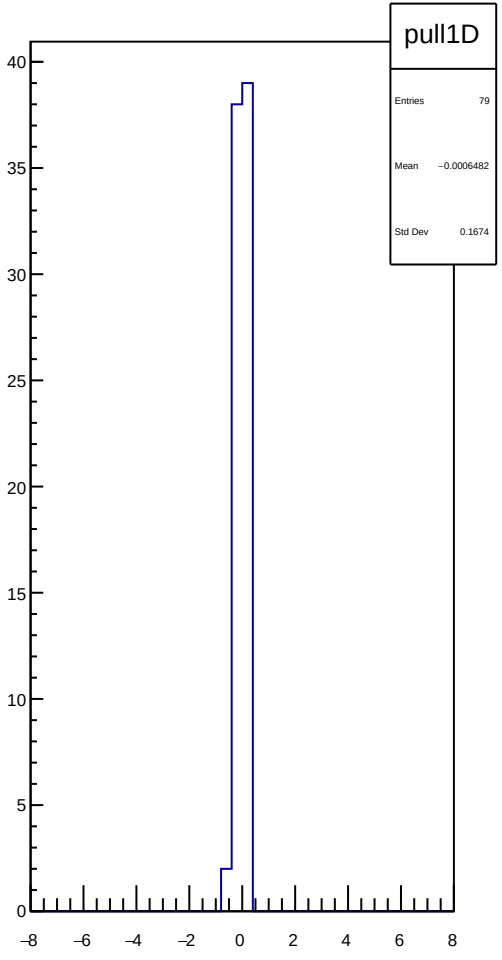

pull1D
Entries 79
Mean −0.0005706
Std Dev 0.2506

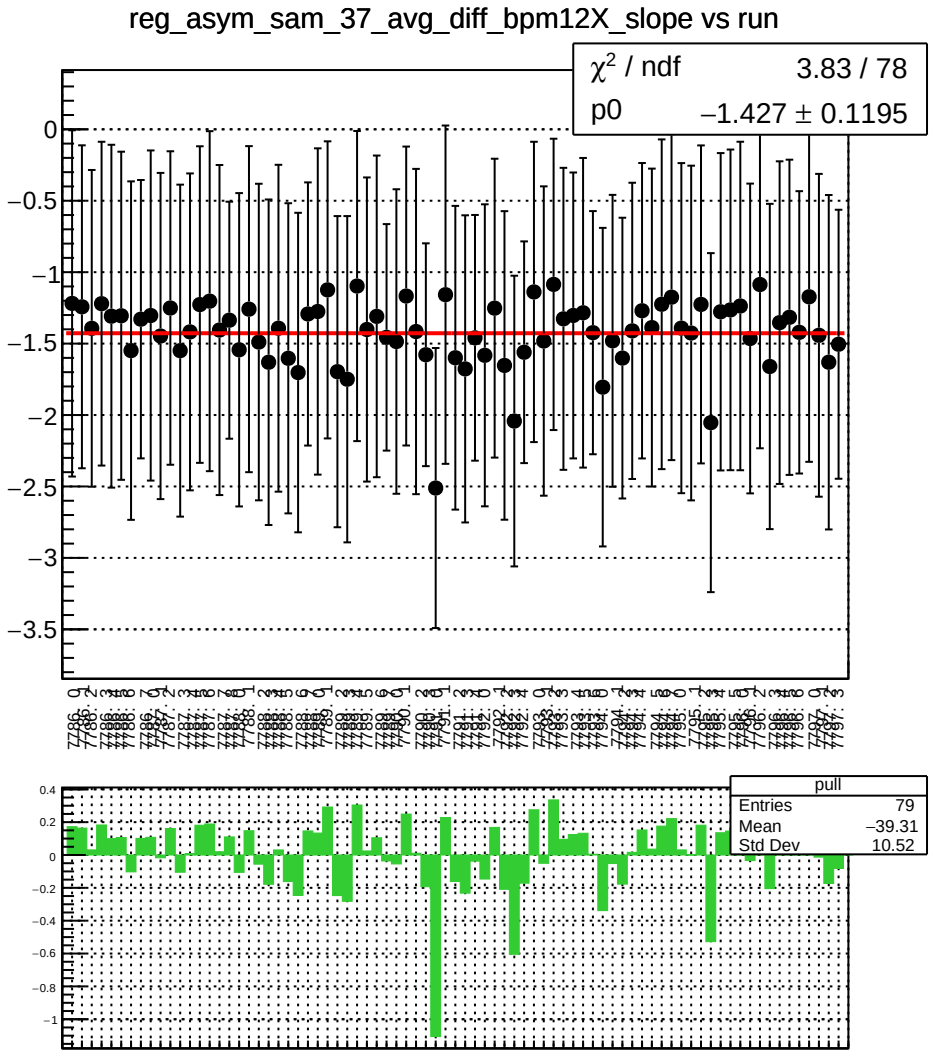

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.172 / 78
p0 14.09 ± 3.391
pull
Entries 79
Mean 197.4
Std Dev 0
pull1D
Entries 79
Mean 0.0009521
Std Dev 0.1658

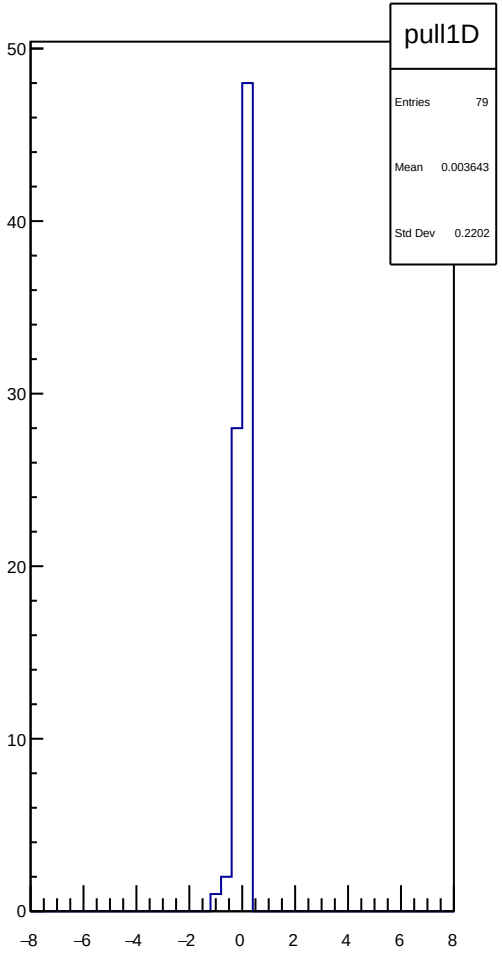

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.119 / 78
p0 −36.56 ± 2.904
pull
Entries 79
Mean 5.935e+04
Std Dev 0

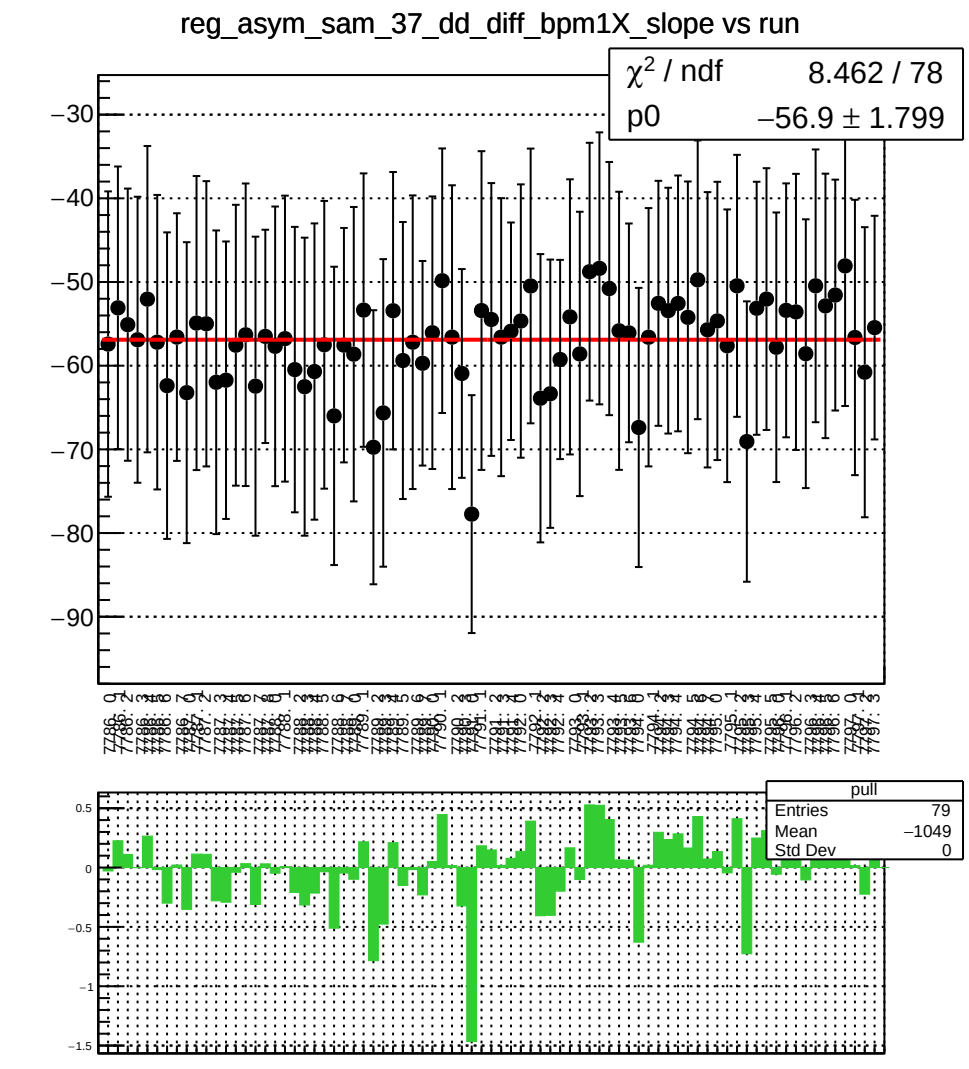

pull1D
Entries 79
Mean −2.372e−05
Std Dev 0.2545

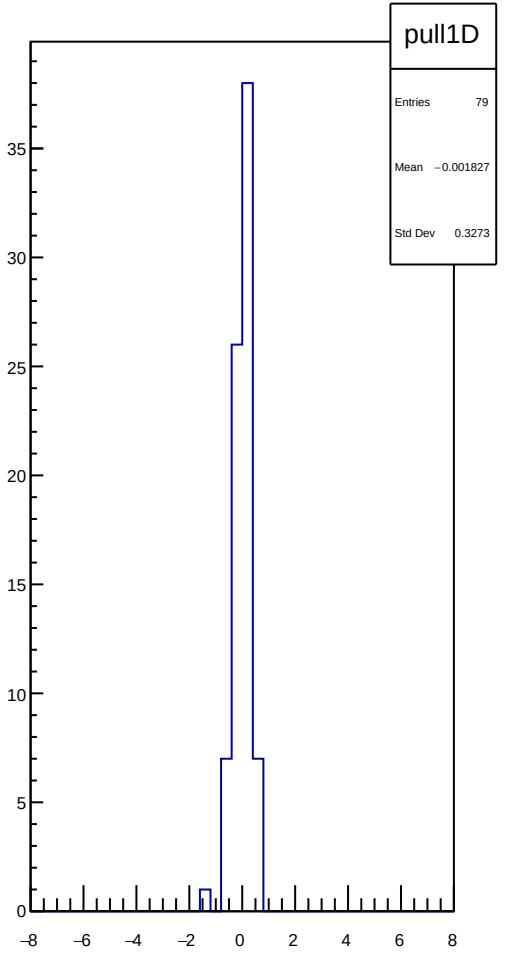

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.214 / 78
p0 −7.514 ± 3.844
pull
Entries 79
Mean 255.8
Std Dev 0

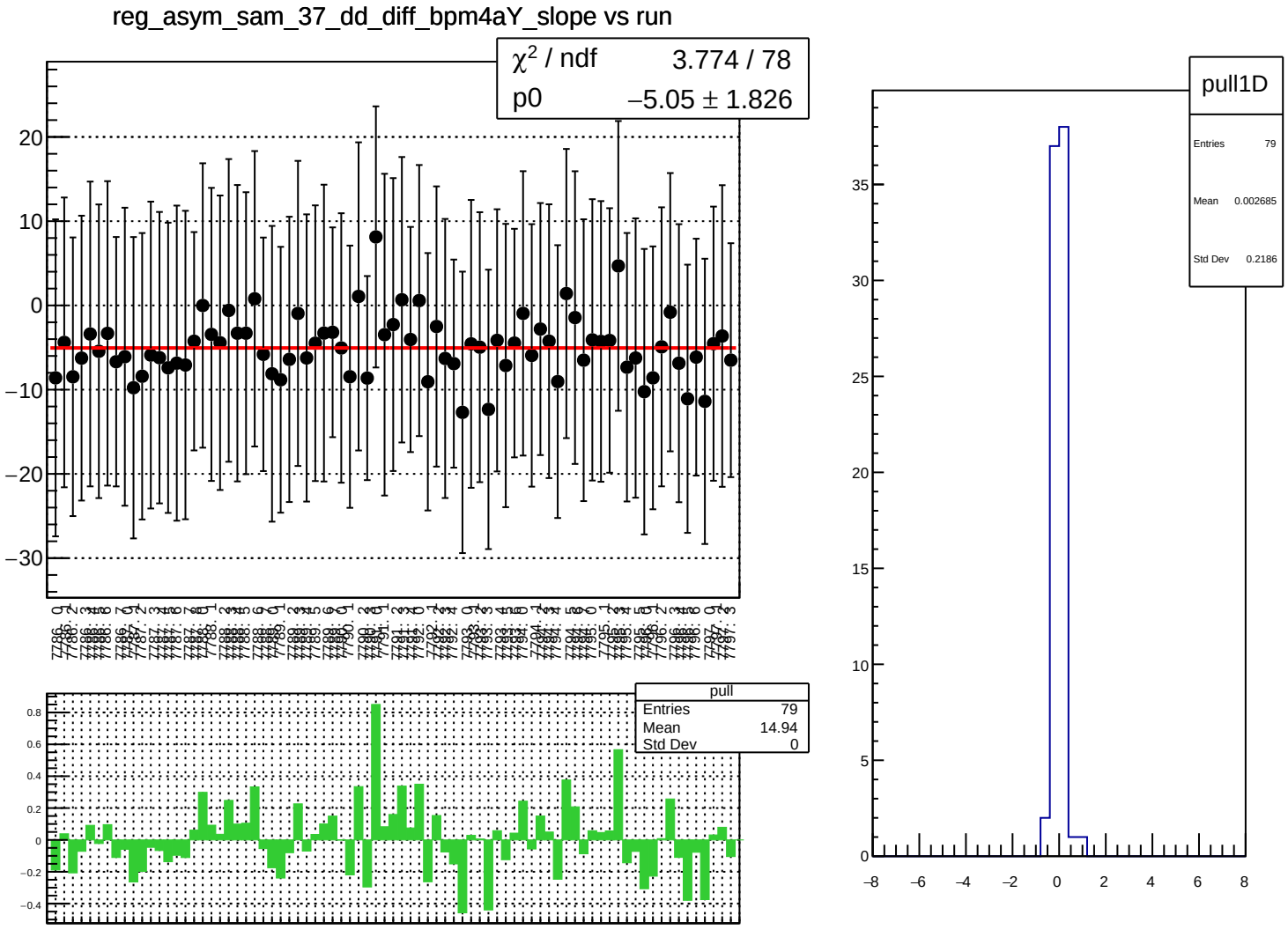

pull1D
Entries 79
Mean −0.0006482
Std Dev 0.1674

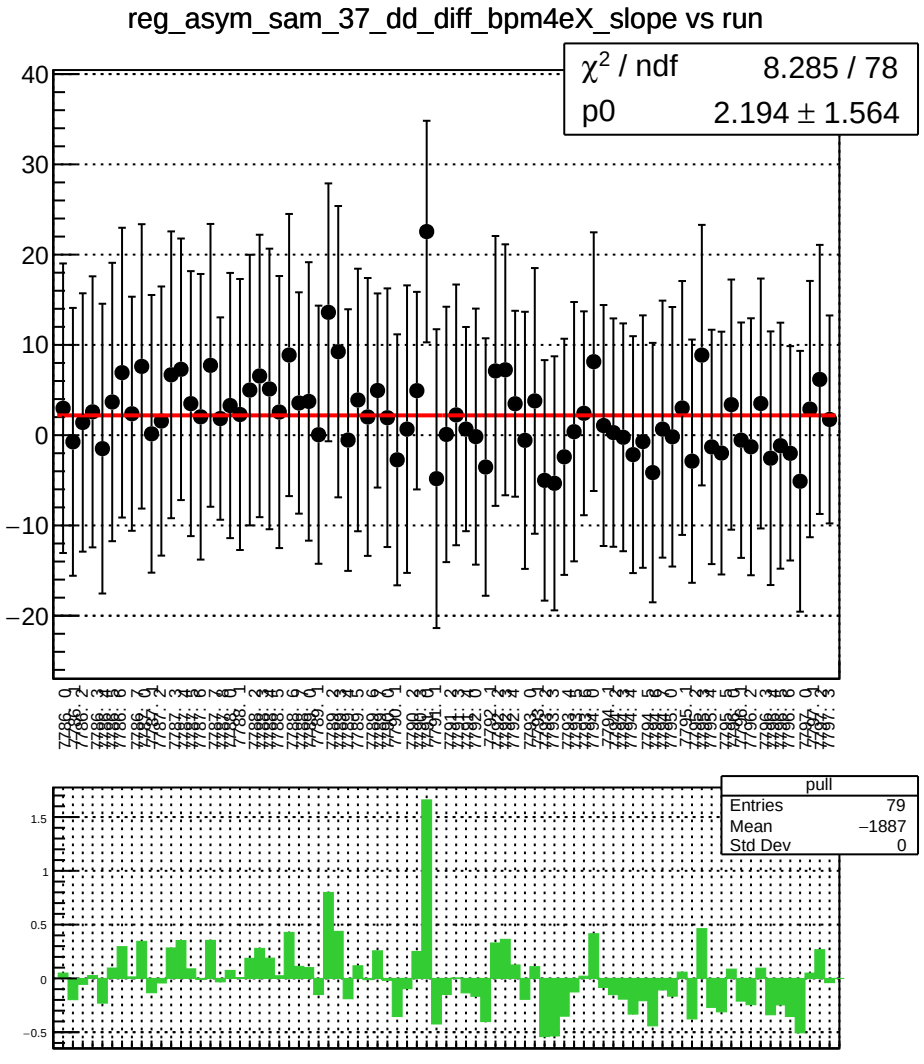

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 3.83 / 78
p0 −1.427 ± 0.1195
pull
Entries 79
Mean −39.31
Std Dev 10.52

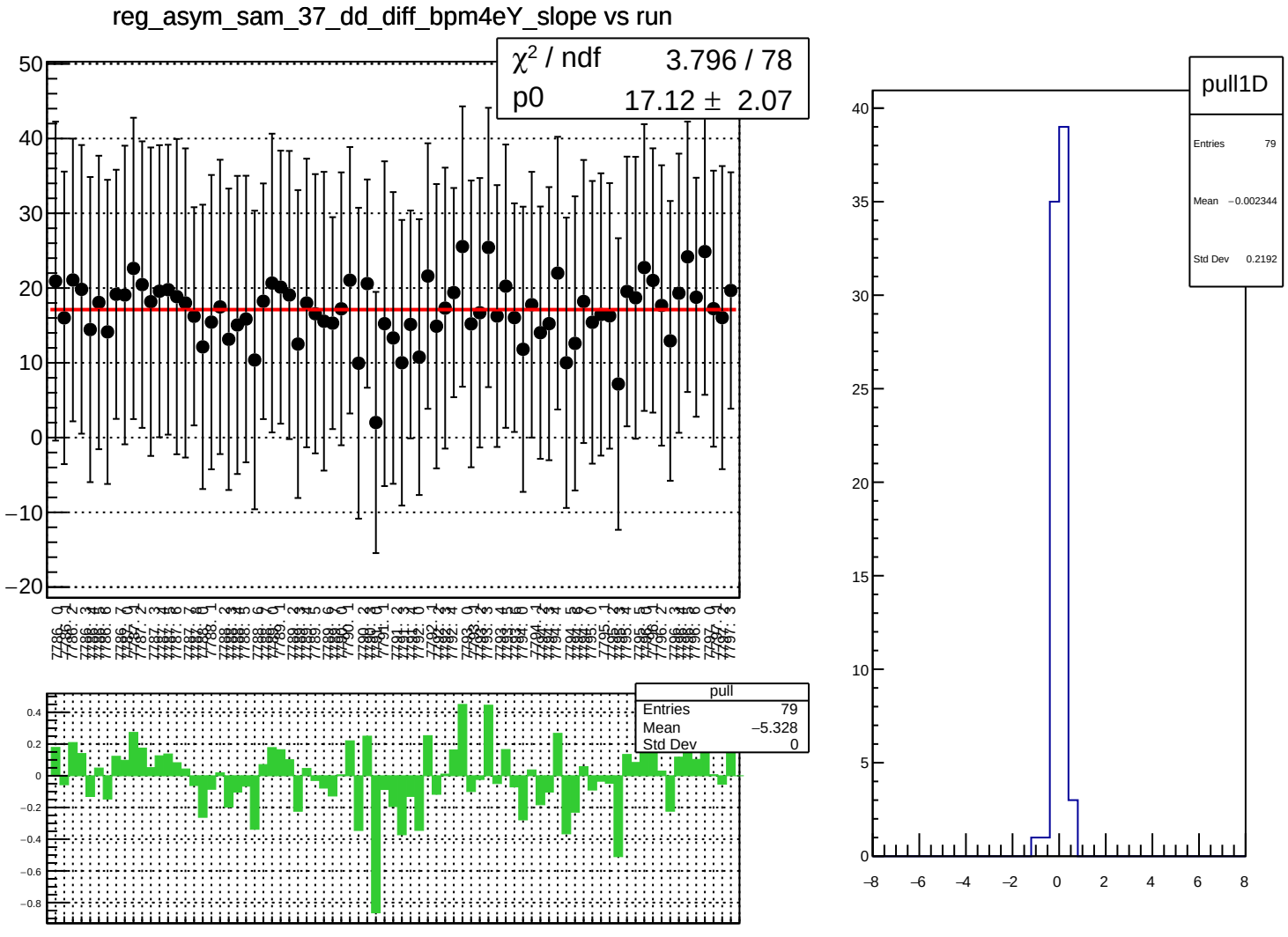

pull1D
Entries 79
Mean 0.003643
Std Dev 0.2202

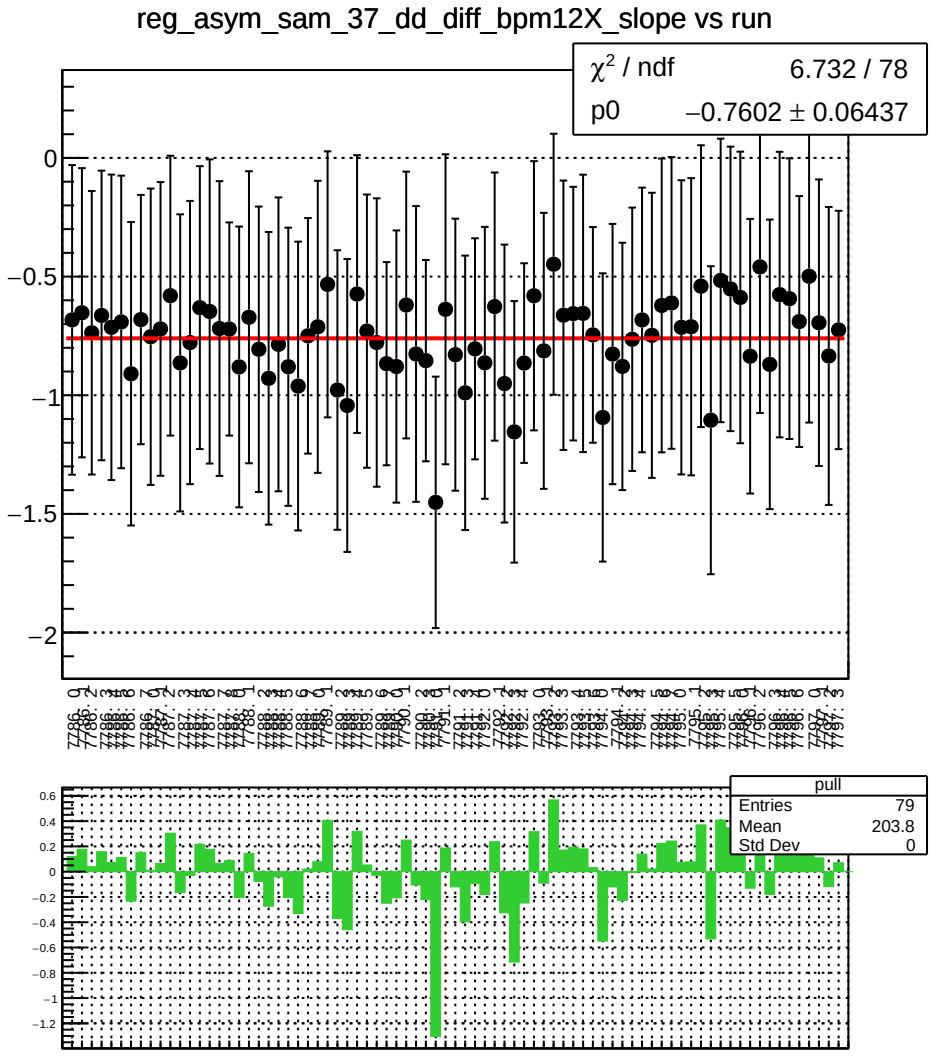

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 8.462 / 78
p0 −56.9 ± 1.799
pull
Entries 79
Mean −1049
Std Dev 0

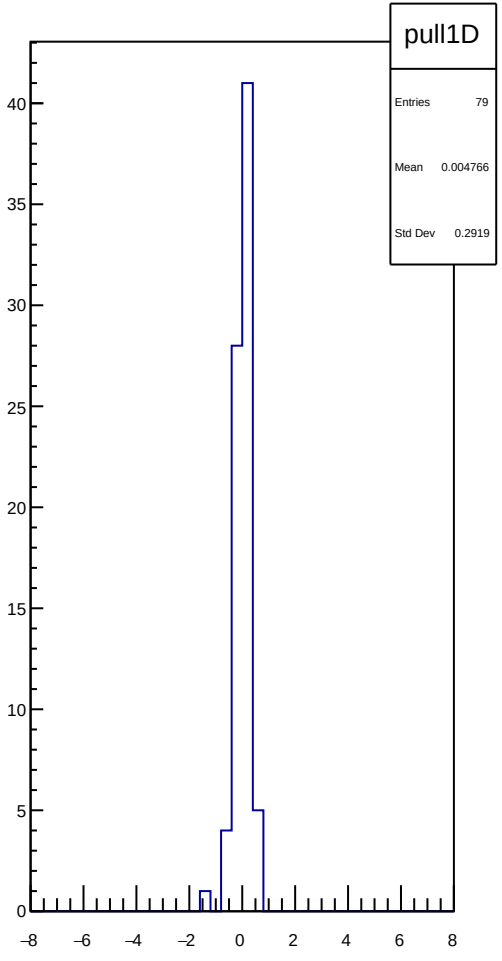

pull1D
Entries 79
Mean −0.001827
Std Dev 0.3273

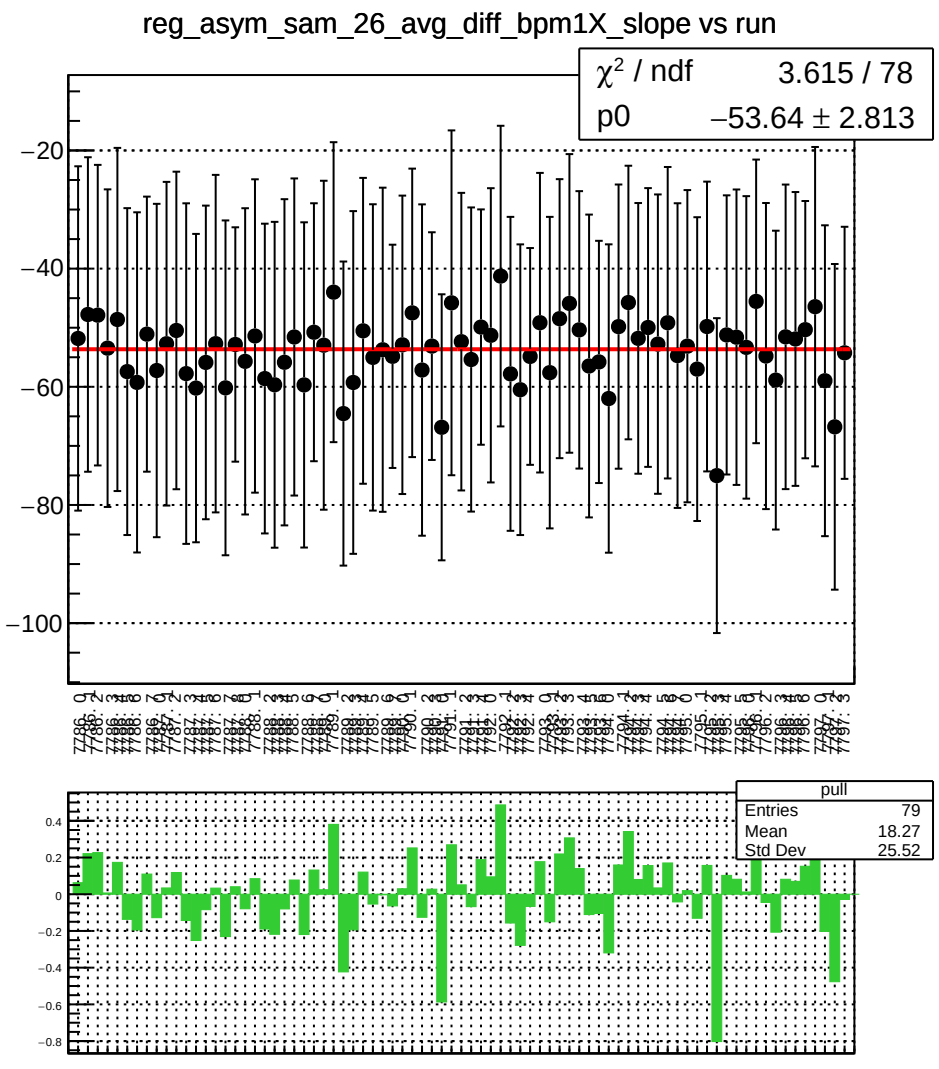

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.774 / 78
p0 −5.05 ± 1.826
pull
Entries 79
Mean 14.94
Std Dev 0
pull1D
Entries 79
Mean 0.002685
Std Dev 0.2186

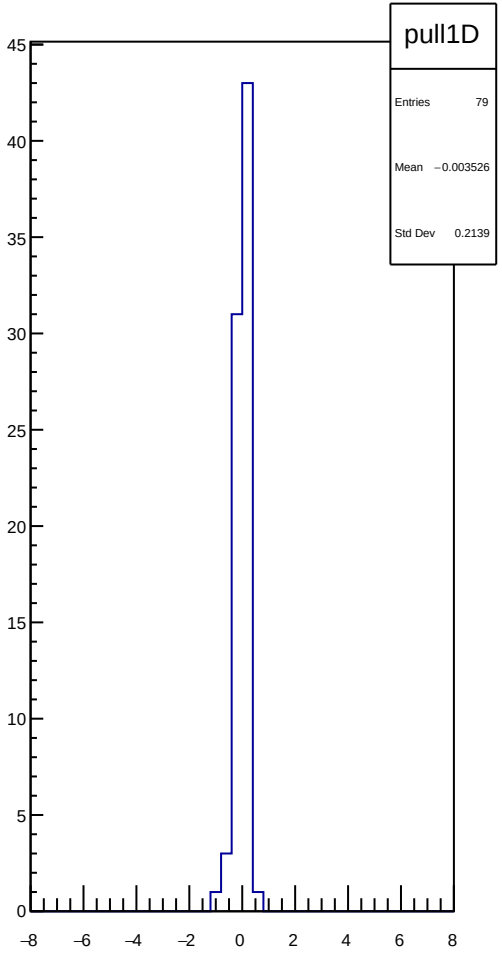

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.285 / 78
p0 2.194 ± 1.564
pull
Entries 79
Mean −1887
Std Dev 0
pull1D
Entries 79
Mean 0.001135
Std Dev 0.3238

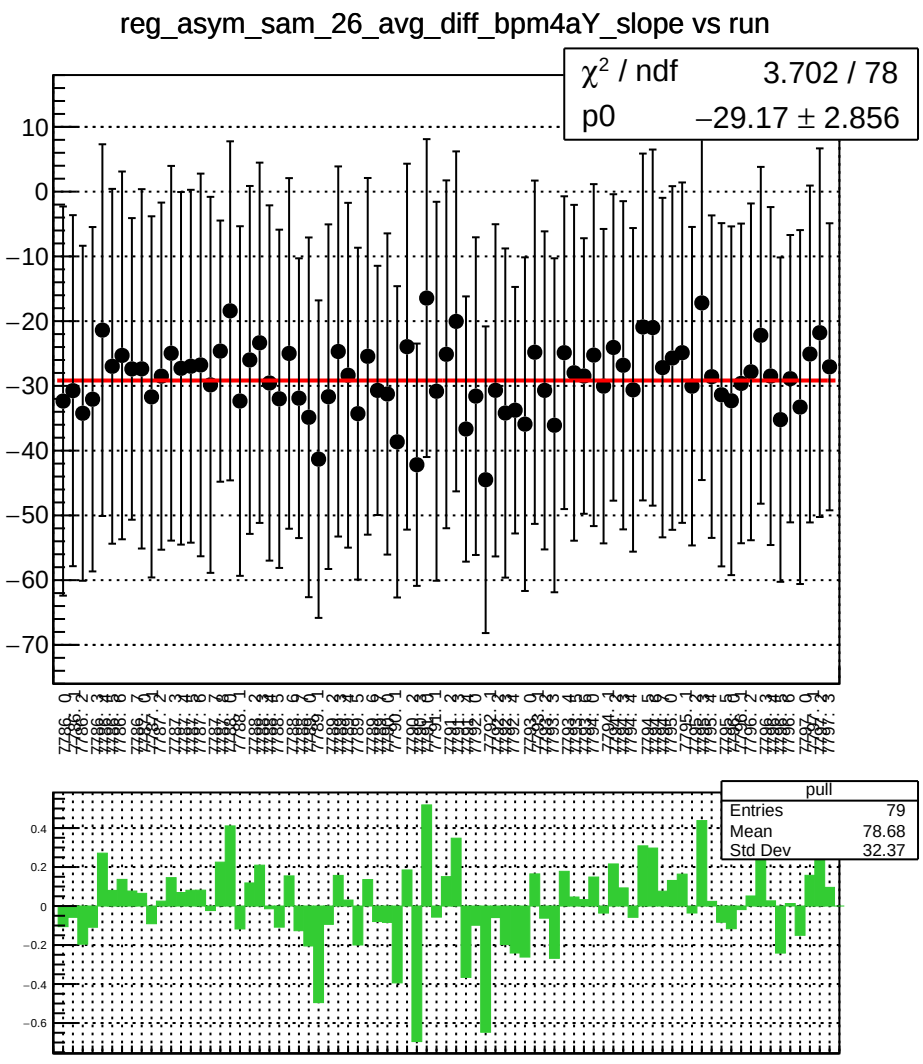

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.796 / 78
p0 17.12 ± 2.07
pull
Entries 79
Mean −5.328
Std Dev 0
pull1D
Entries 79
Mean −0.002344
Std Dev 0.2192

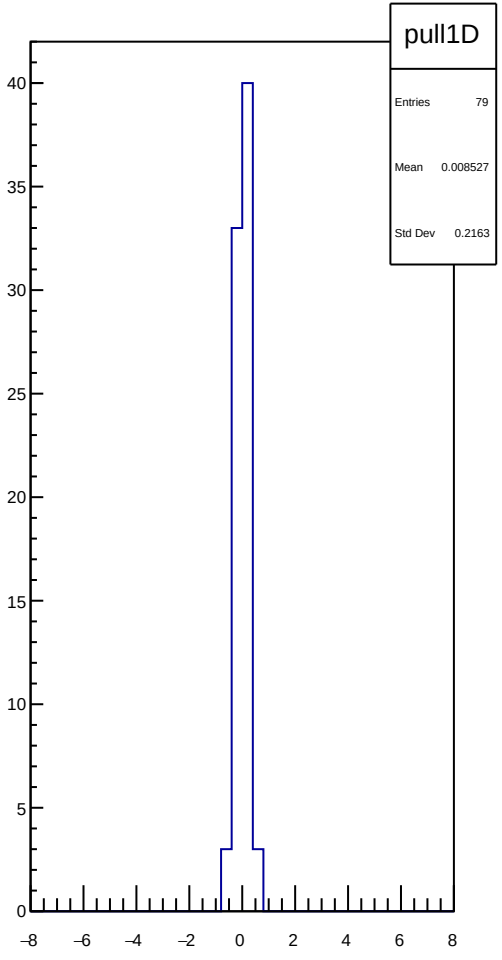

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.732 / 78
p0 −0.7602 ± 0.06437
pull
Entries 79
Mean 203.8
Std Dev 0

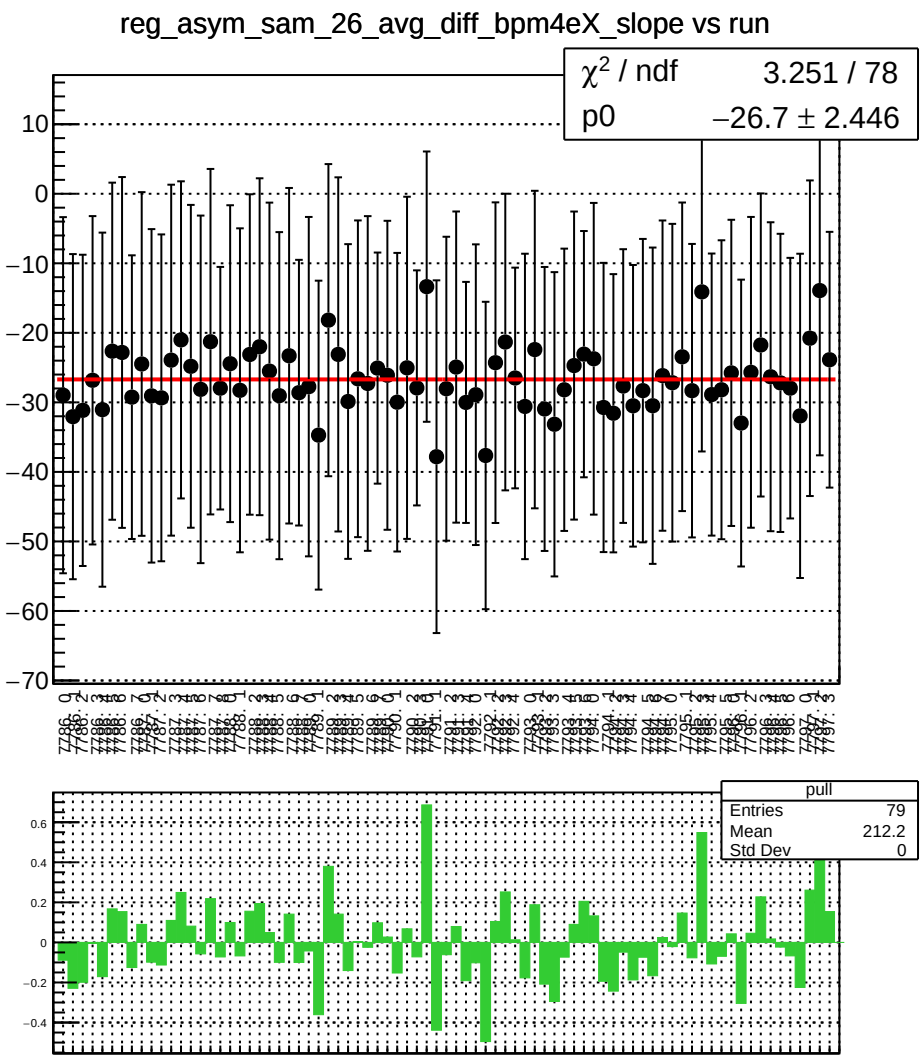

pull1D
Entries 79
Mean 0.004766
Std Dev 0.2919

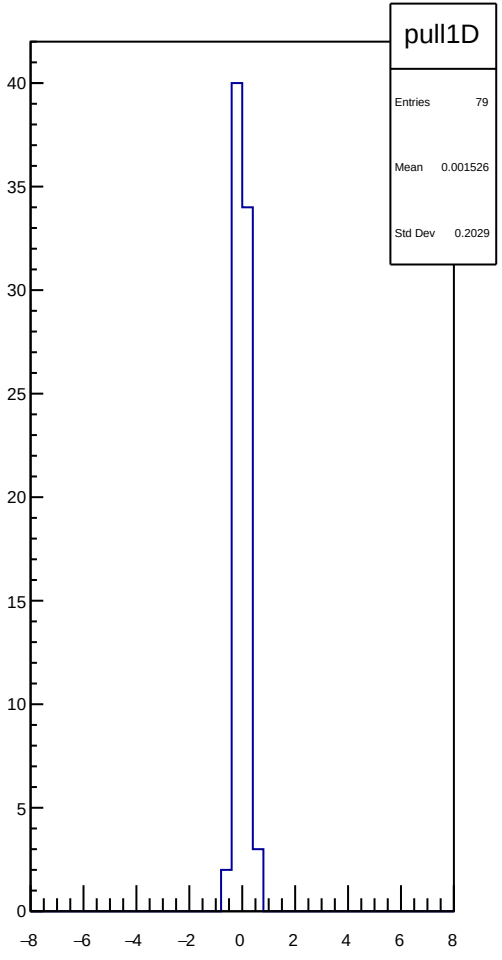

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 3.615 / 78
p0 −53.64 ± 2.813
pull
Entries 79
Mean 18.27
Std Dev 25.52

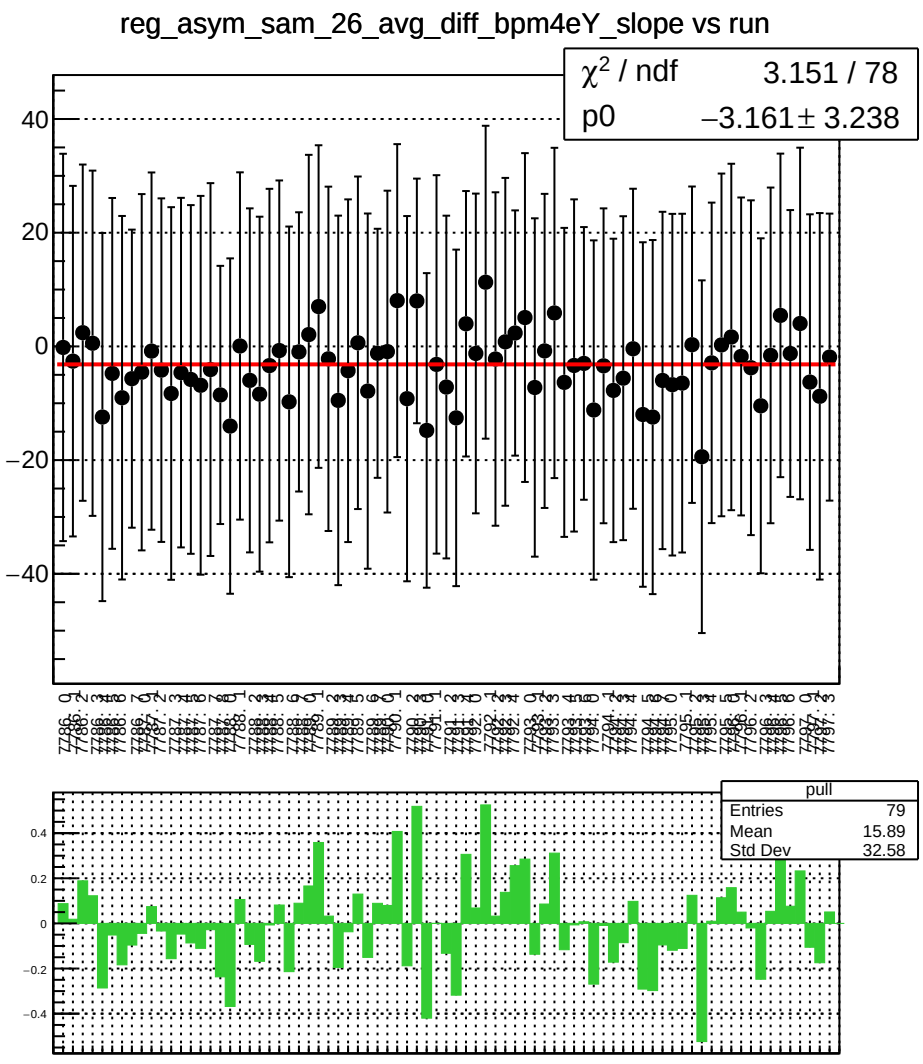

pull1D
Entries 79
Mean −0.003526
Std Dev 0.2139

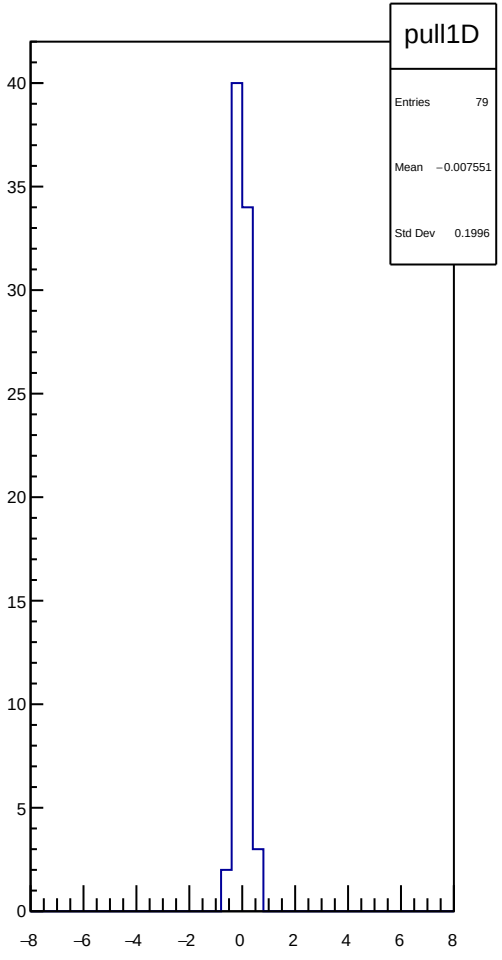

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.702 / 78
p0 −29.17 ± 2.856
pull
Entries 79
Mean 78.68
Std Dev 32.37

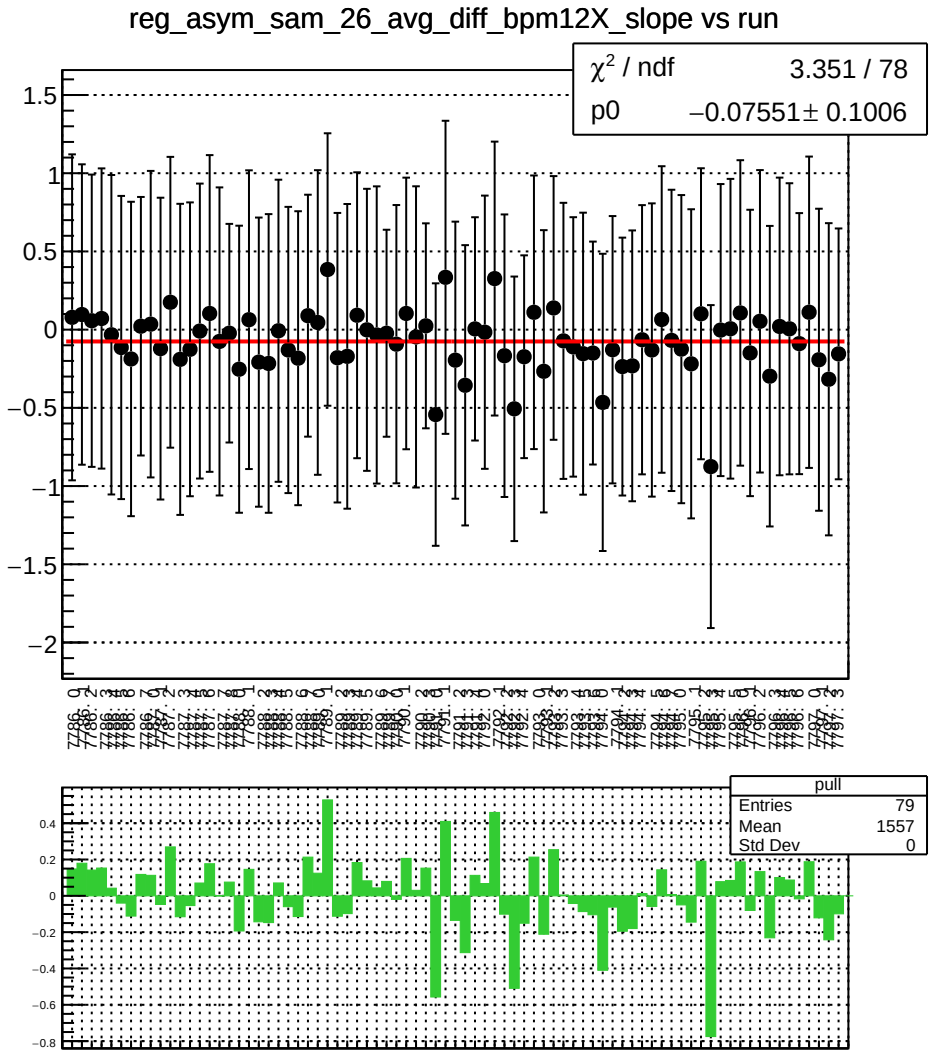

pull1D
Entries 79
Mean 0.008527
Std Dev 0.2163

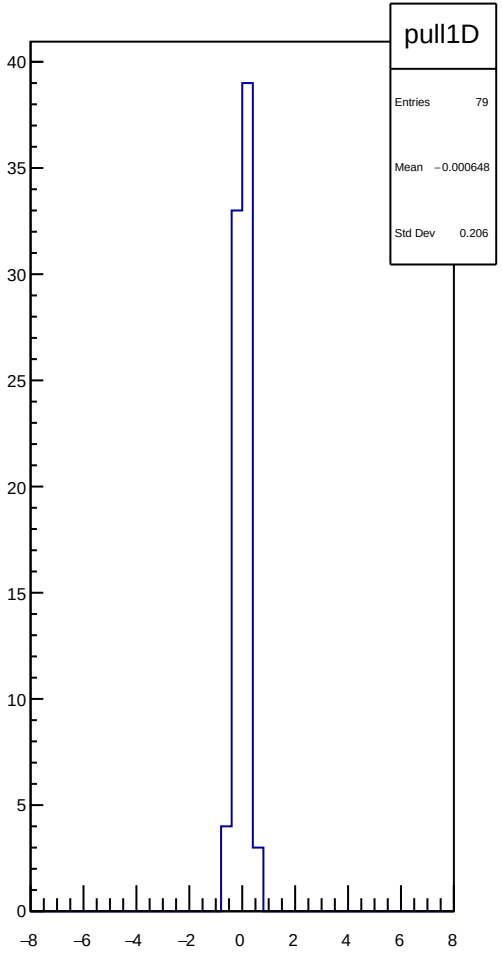

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.251 / 78
p0 −26.7 ± 2.446
pull
Entries 79
Mean 212.2
Std Dev 0

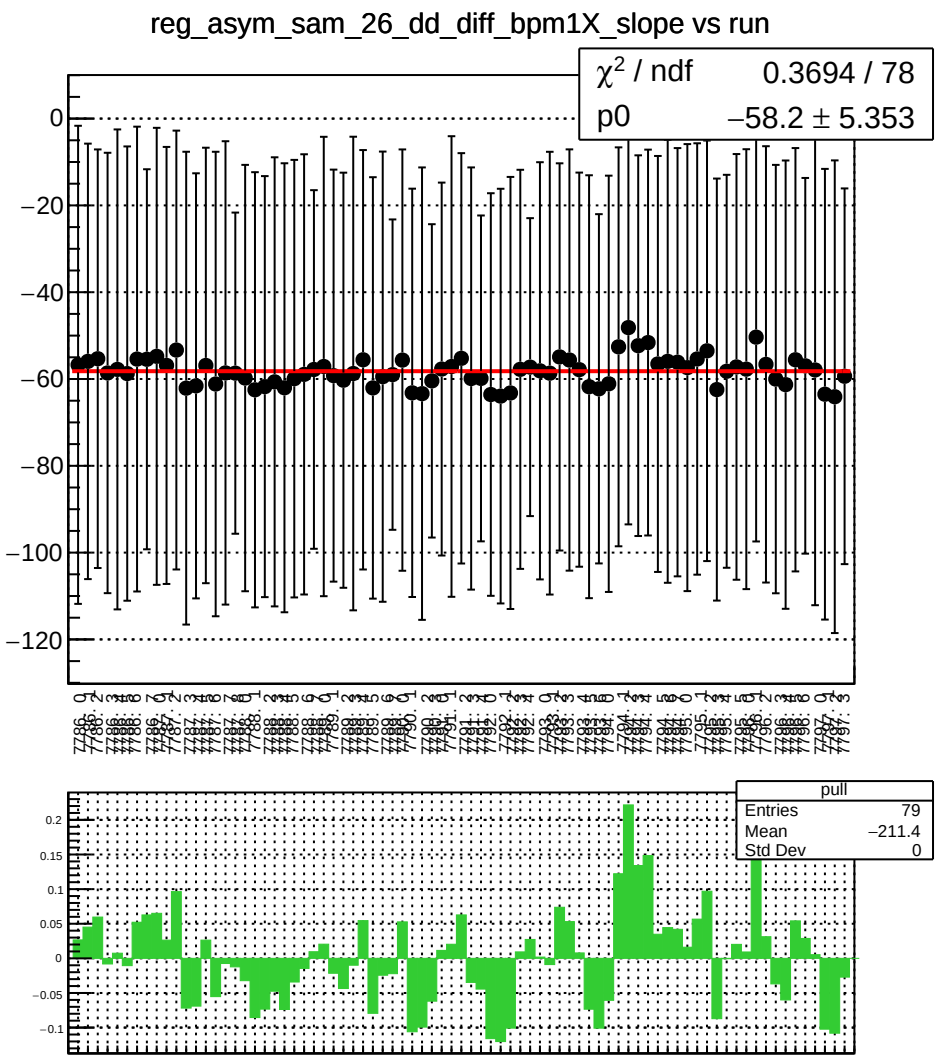

pull1D
Entries 79
Mean 0.001526
Std Dev 0.2029

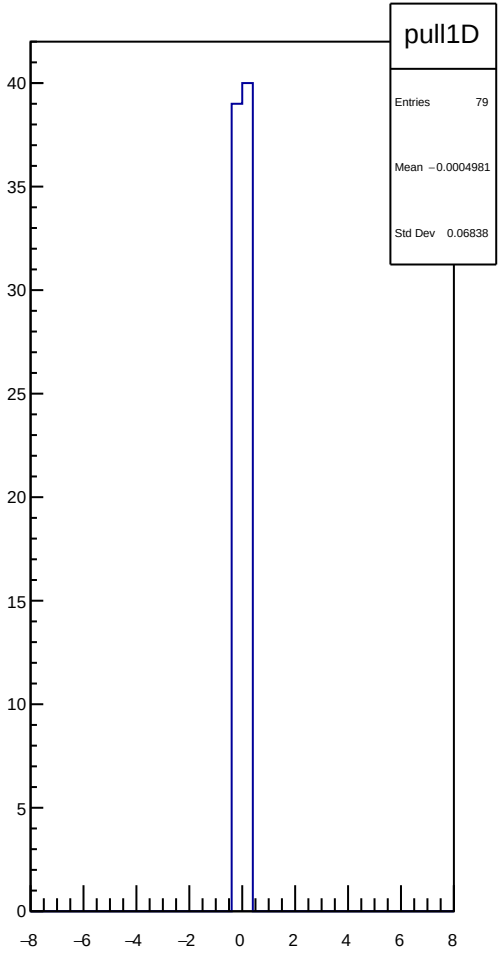

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.151 / 78
p0 −3.161 ± 3.238
pull
Entries 79
Mean 15.89
Std Dev 32.58

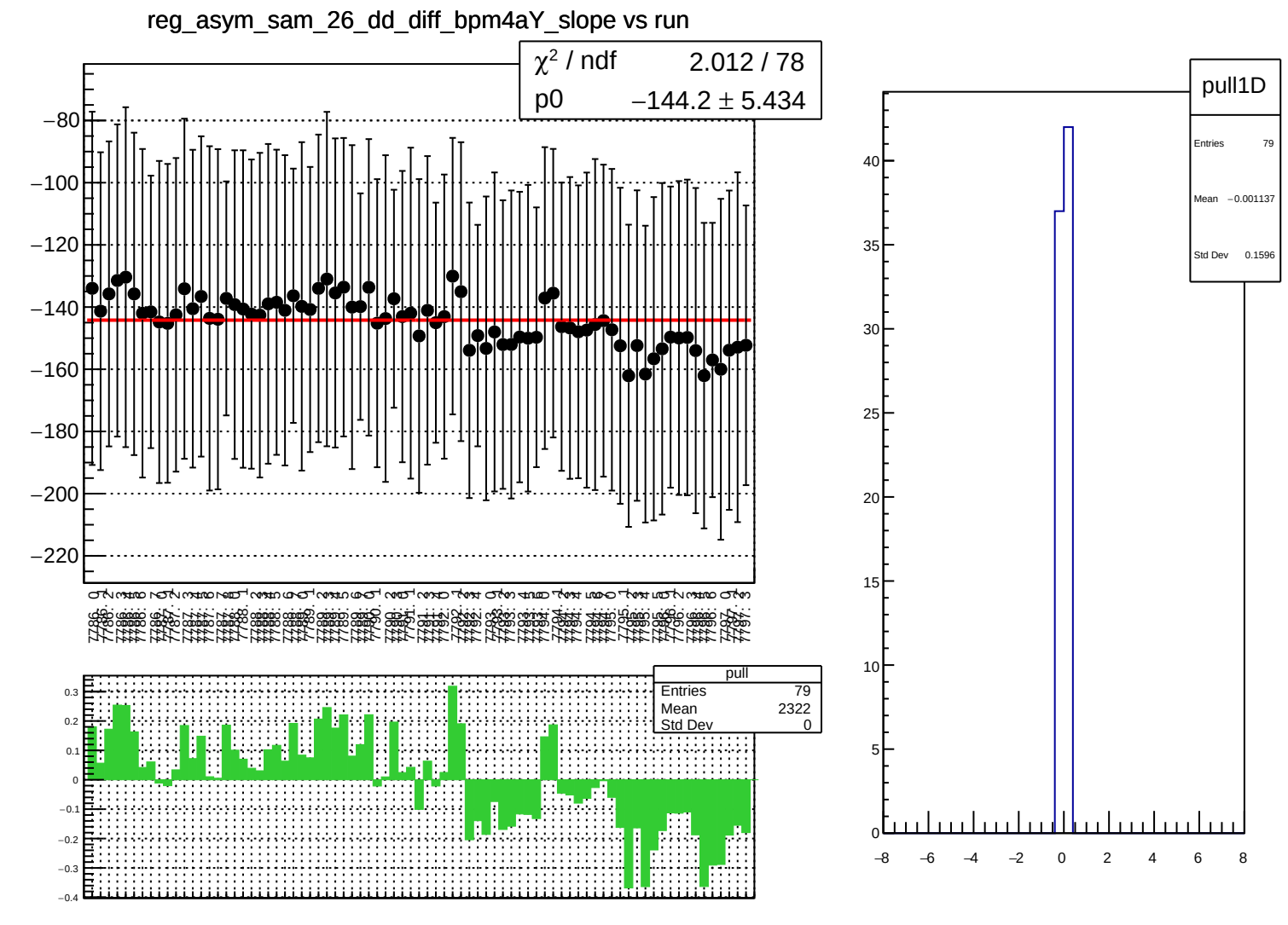

pull1D
Entries 79
Mean −0.007551
Std Dev 0.1996

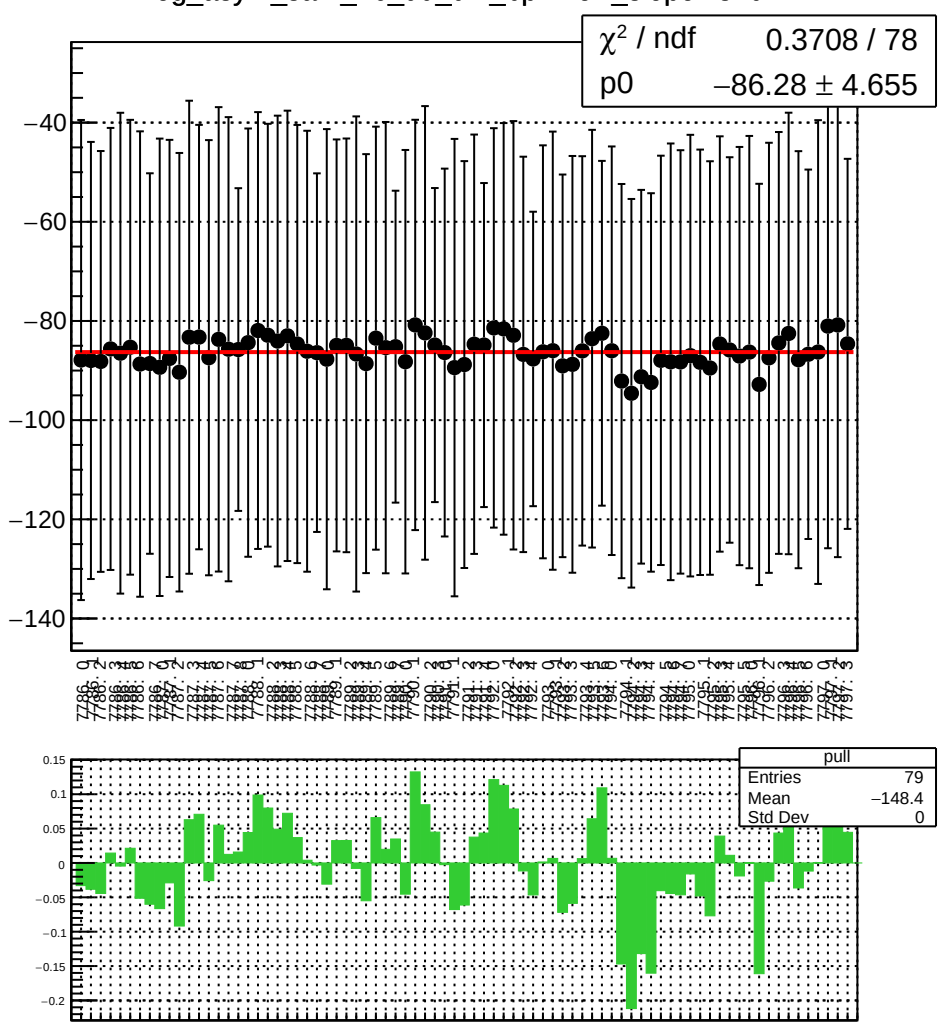

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 3.351 / 78
p0 −0.07551 ± 0.1006
pull
Entries 79
Mean 1557
Std Dev 0

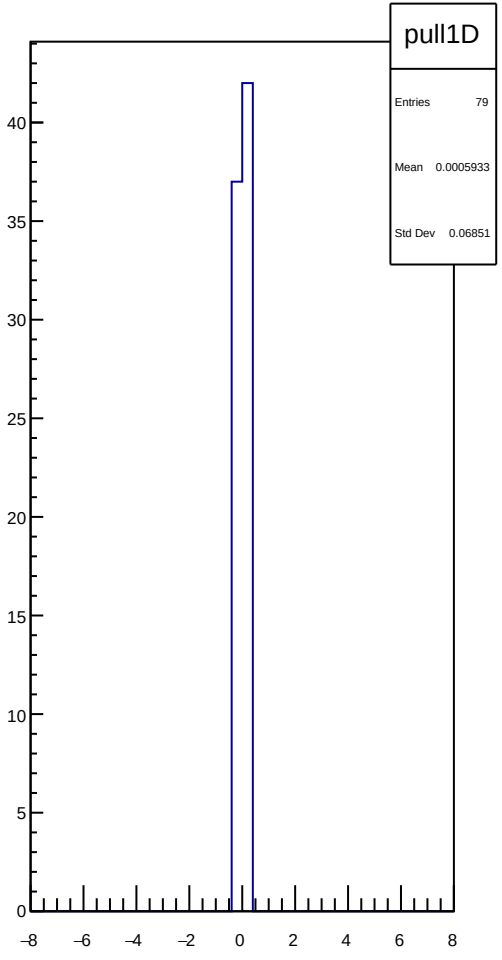

pull1D
Entries 79
Mean −0.000648
Std Dev 0.206

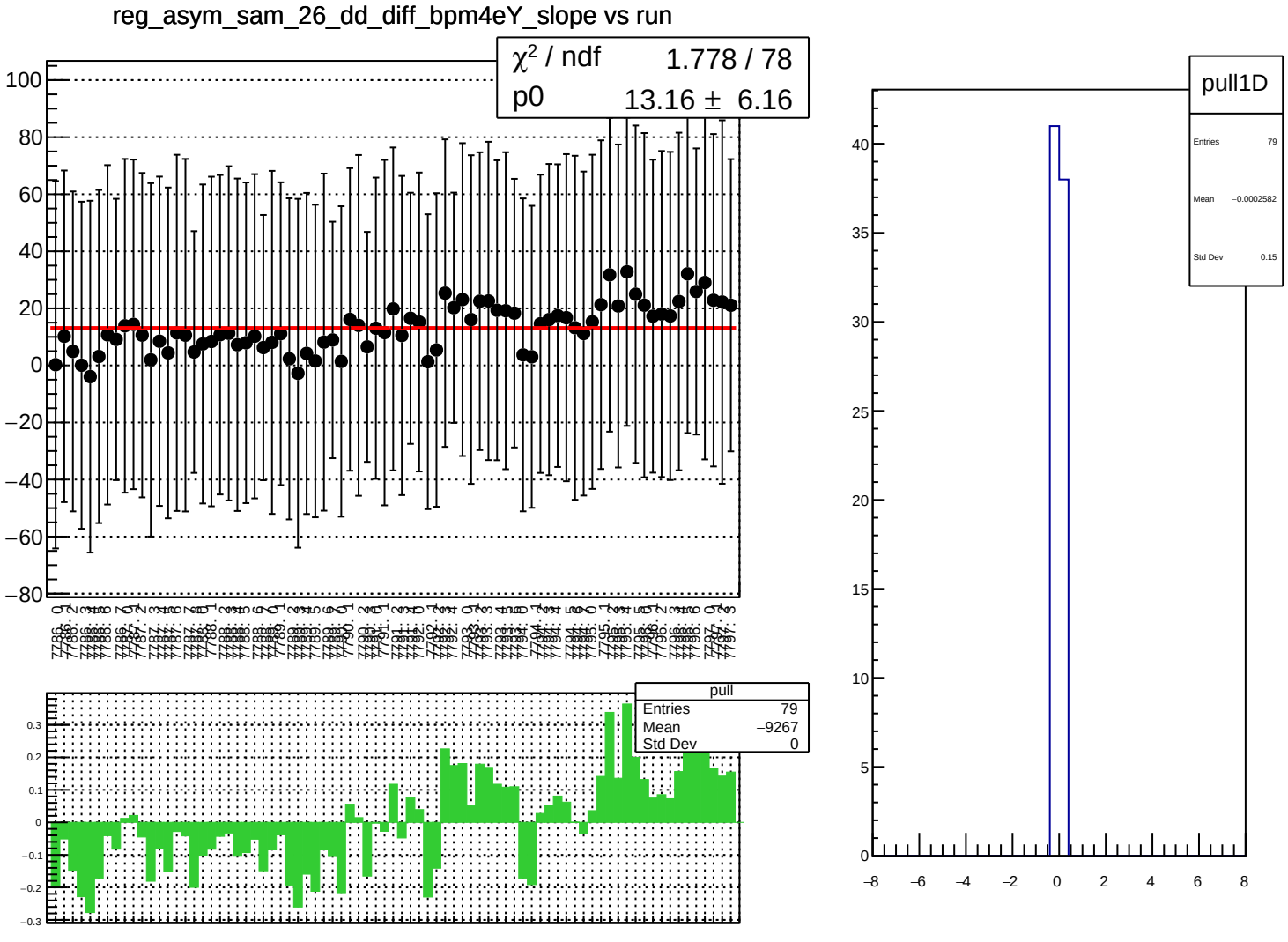

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.3694 / 78
p0 −58.2 ± 5.353
pull
Entries 79
Mean −211.4
Std Dev 0

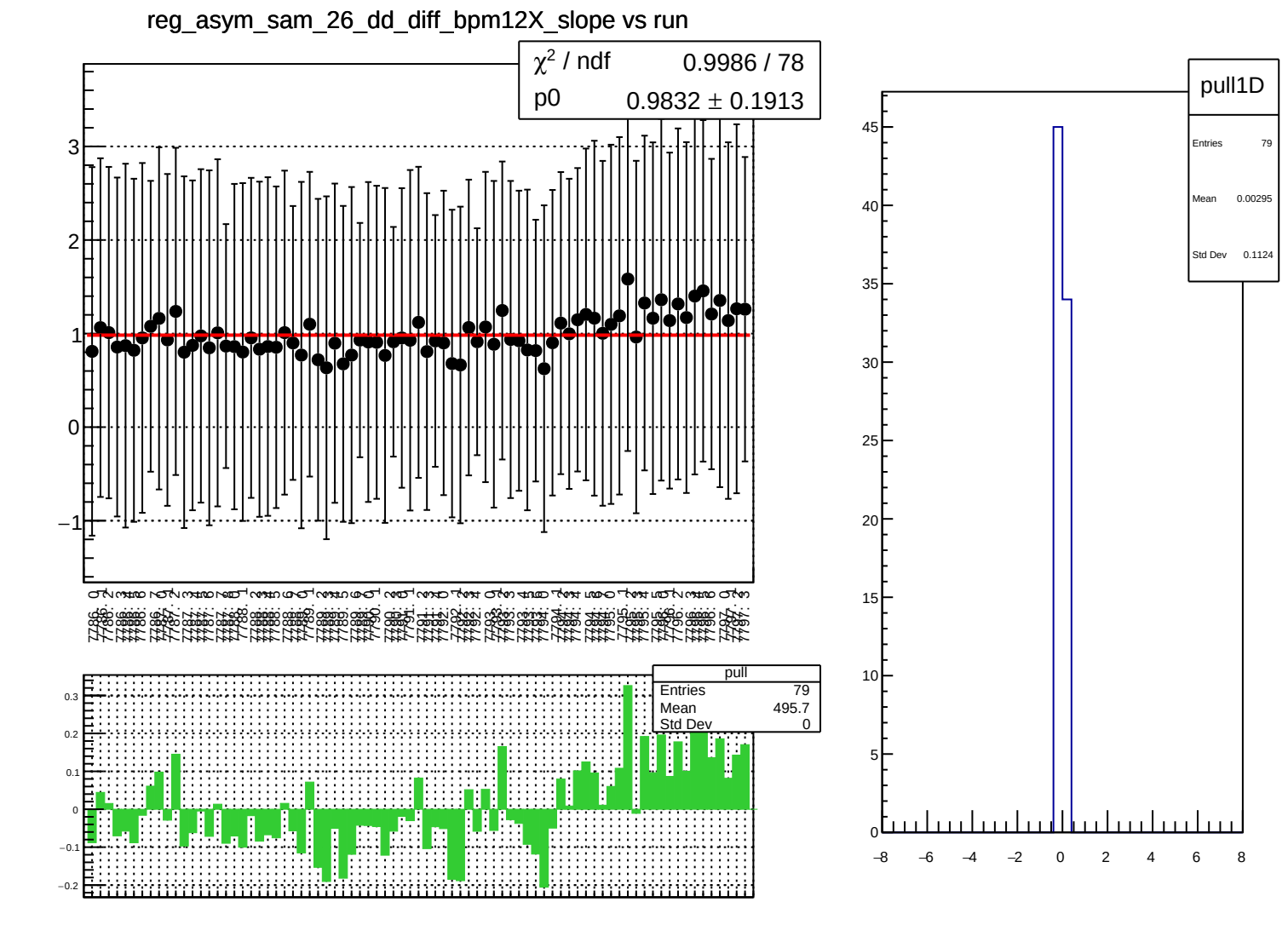

pull1D
Entries 79
Mean −0.0004981
Std Dev 0.06838

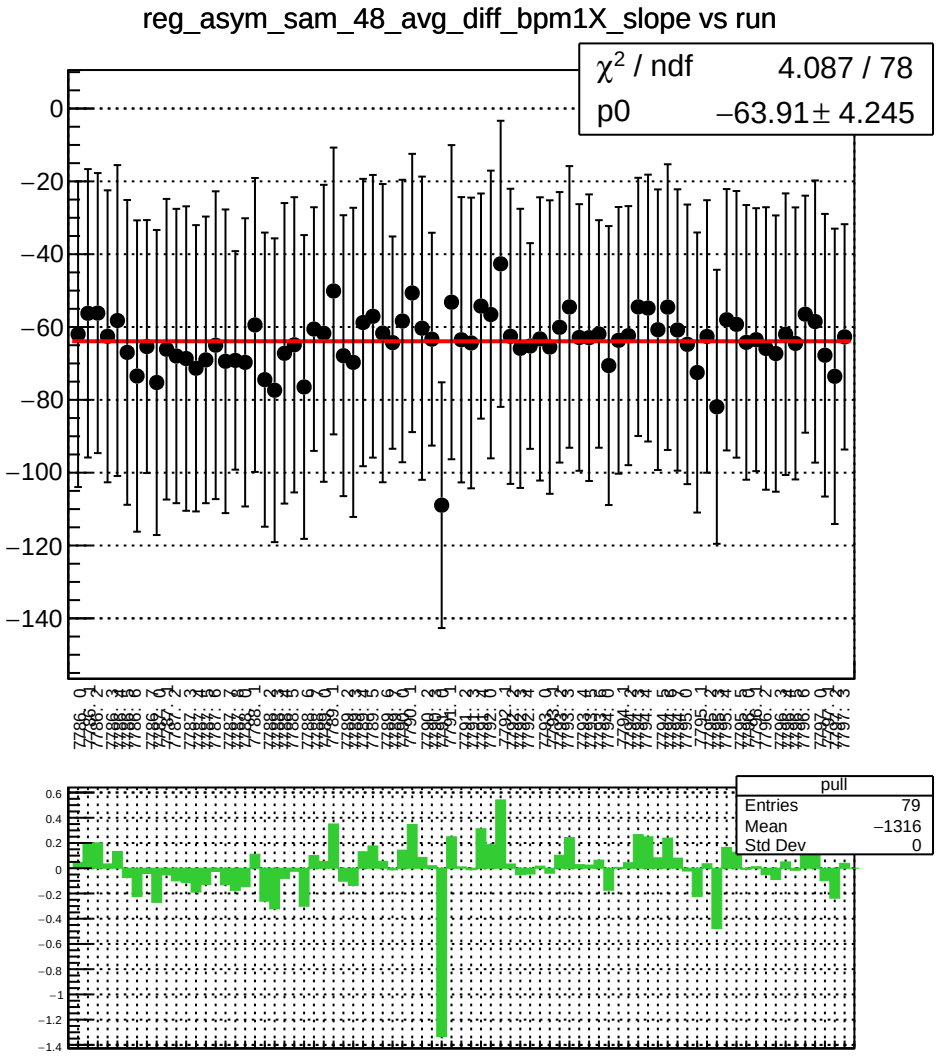

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.012 / 78
p0 −144.2 ± 5.434
pull
Entries 79
Mean 2322
Std Dev 0
pull1D
Entries 79
Mean −0.001137
Std Dev 0.1596

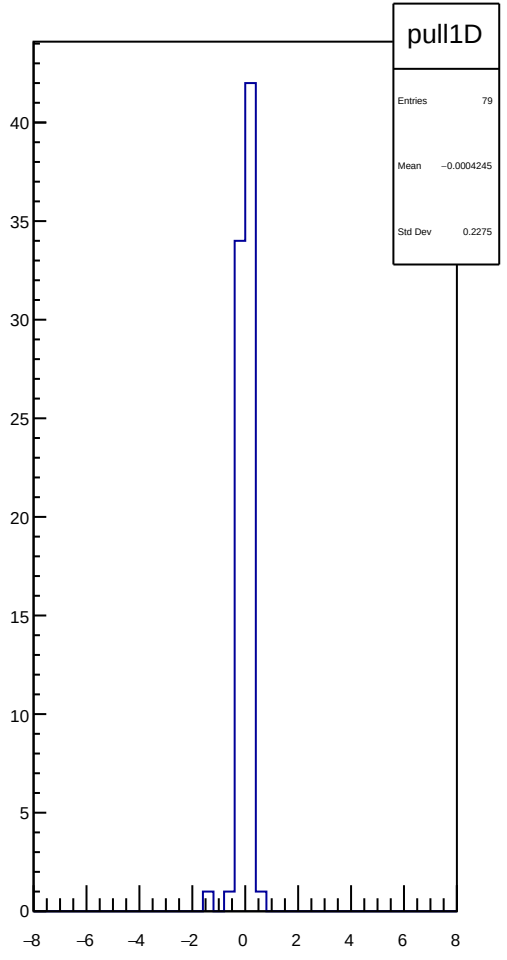

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.3708 / 78
p0 −86.28 ± 4.655
pull
Entries 79
Mean −148.4
Std Dev 0

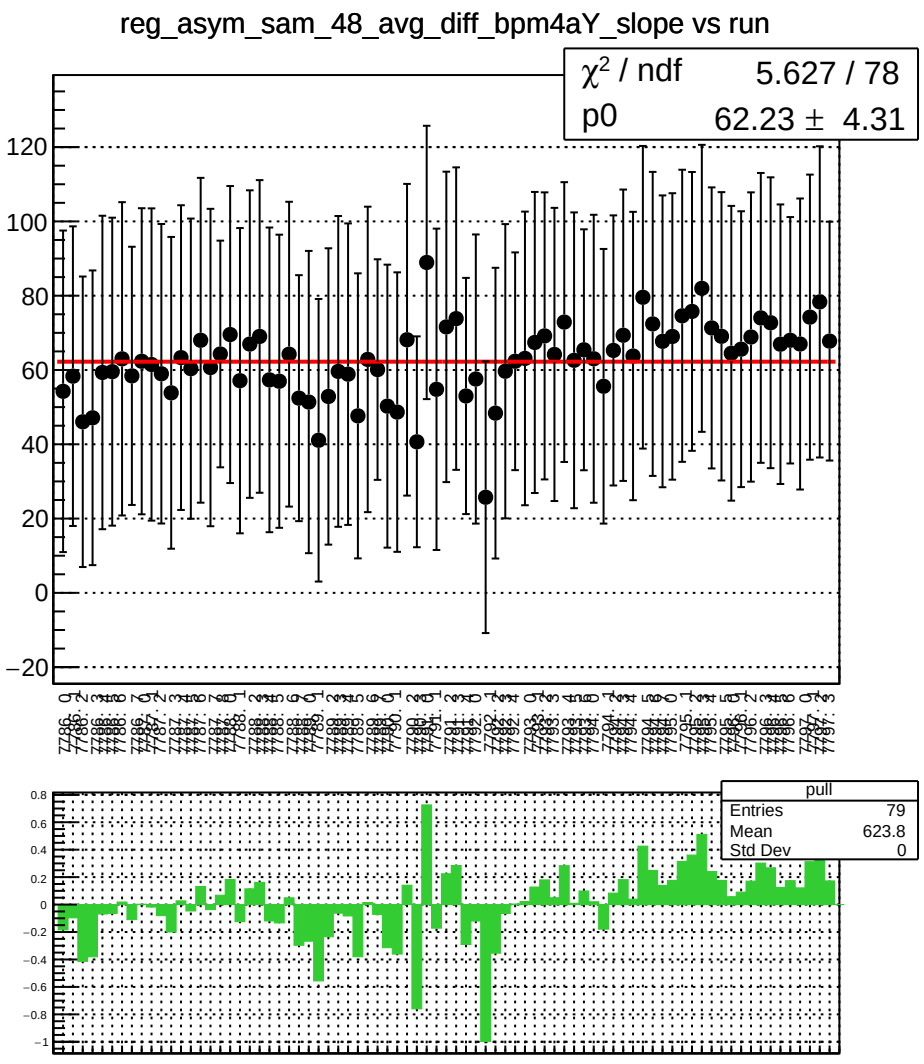

pull1D
Entries 79
Mean 0.0005933
Std Dev 0.06851

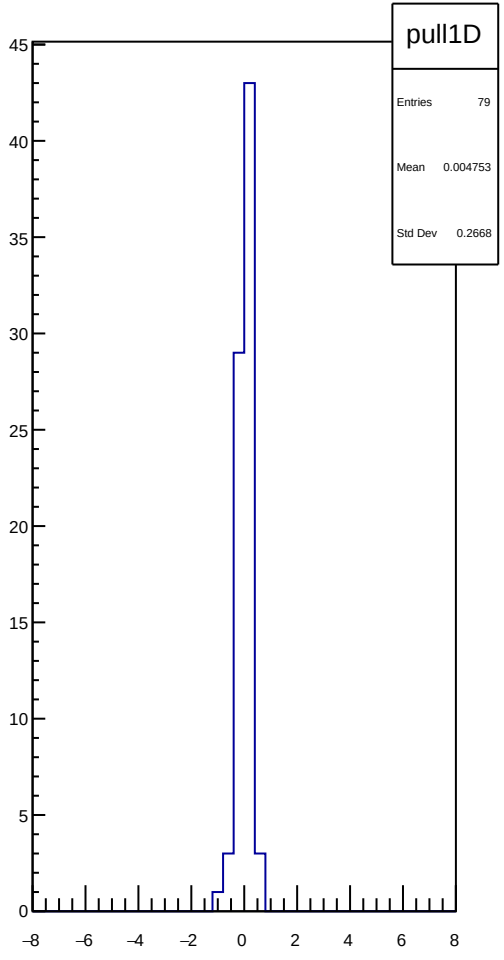

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.778 / 78
p0 13.16 ± 6.16
pull
Entries 79
Mean −9267
Std Dev 0
pull1D
Entries 79
Mean −0.0002582
Std Dev 0.15

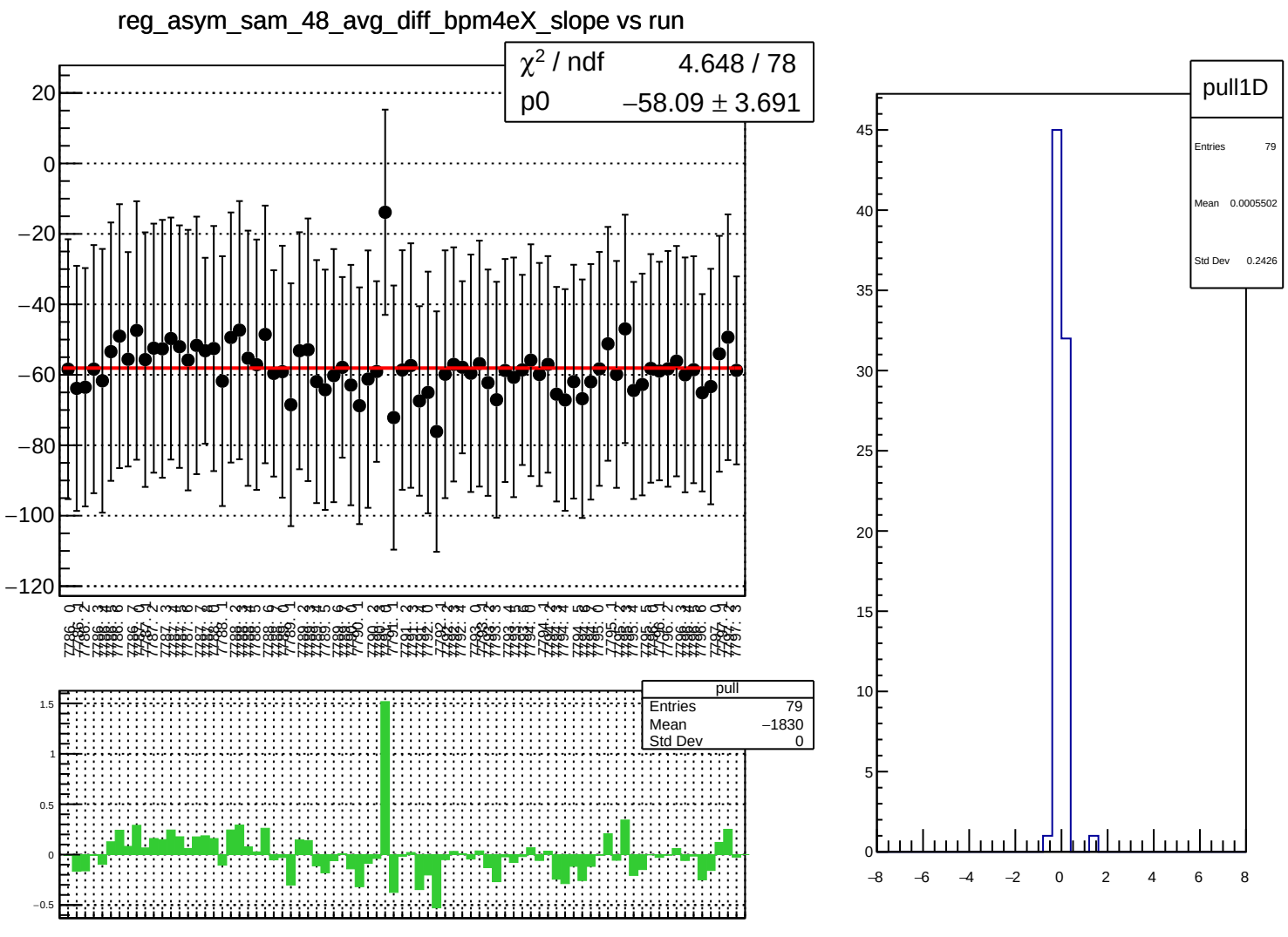

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9986 / 78
p0 0.9832 ± 0.1913
pull
Entries 79
Mean 495.7
Std Dev 0
pull1D
Entries 79
Mean 0.00295
Std Dev 0.1124

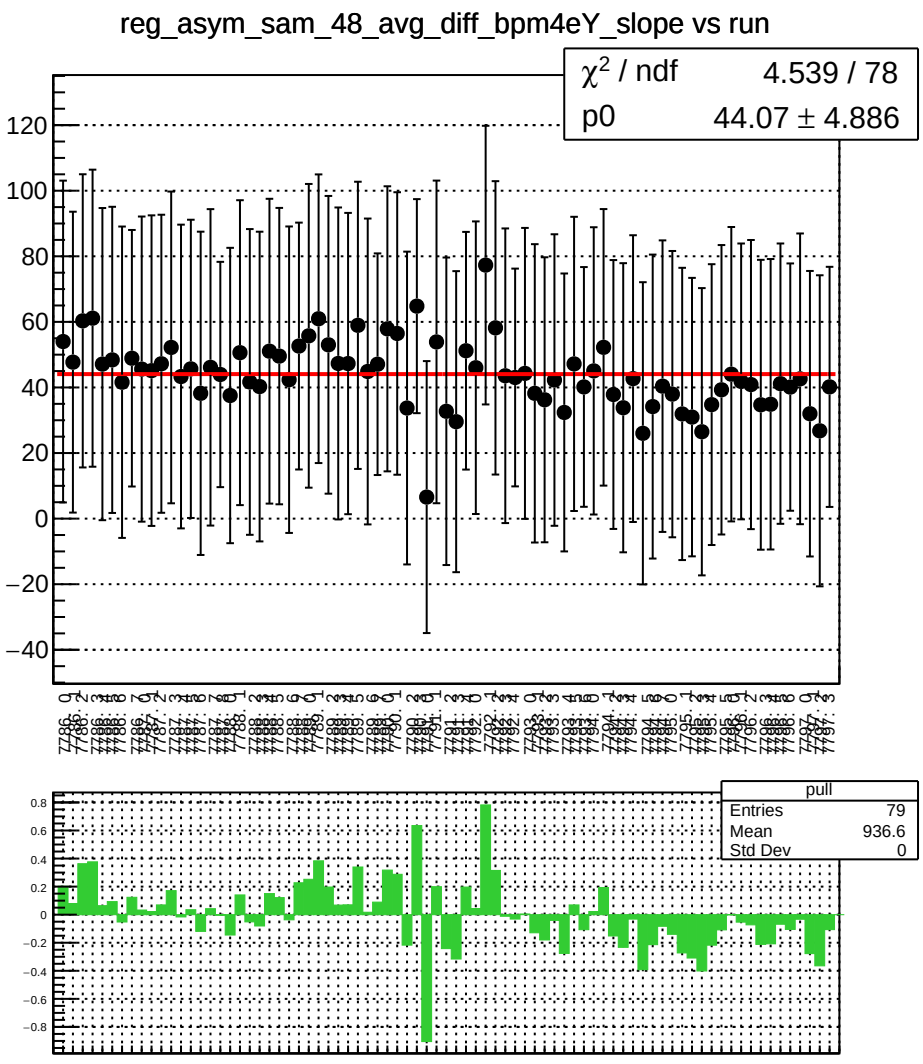

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 4.087 / 78
p0 −63.91 ± 4.245
pull
Entries 79
Mean −1316
Std Dev 0

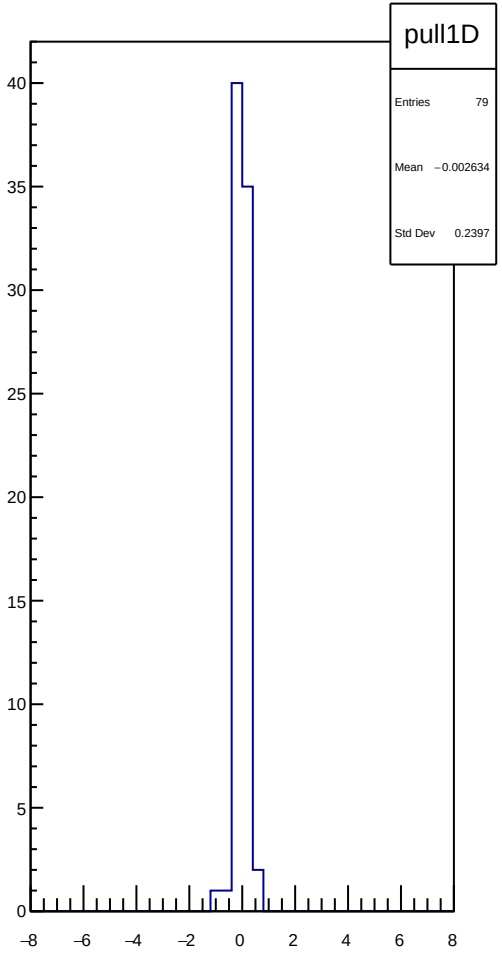

pull1D
Entries 79
Mean −0.0004245
Std Dev 0.2275

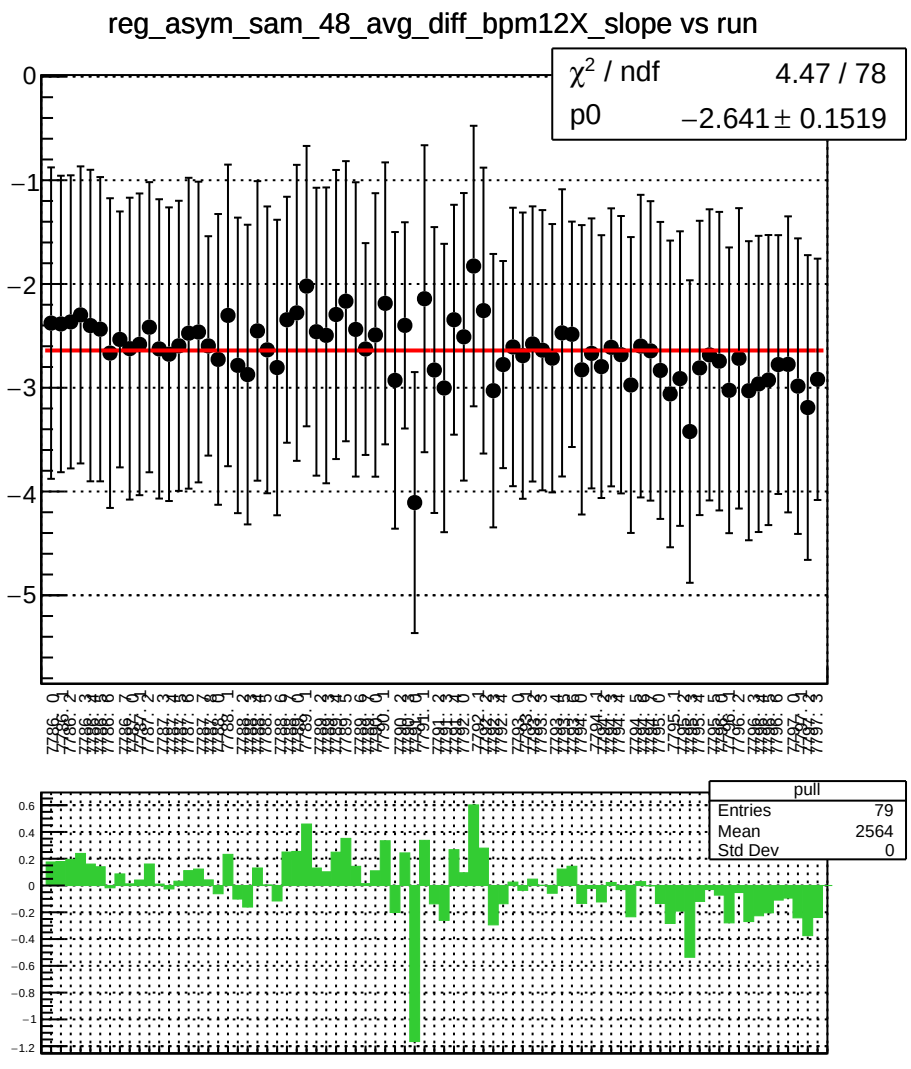

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.627 / 78
p0 62.23 ± 4.31
pull
Entries 79
Mean 623.8
Std Dev 0

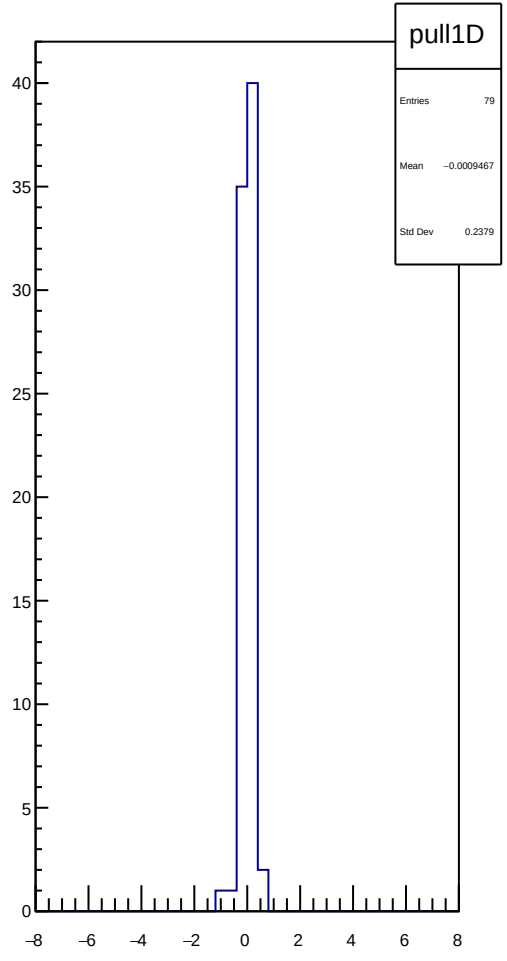

pull1D
Entries 79
Mean 0.004753
Std Dev 0.2668

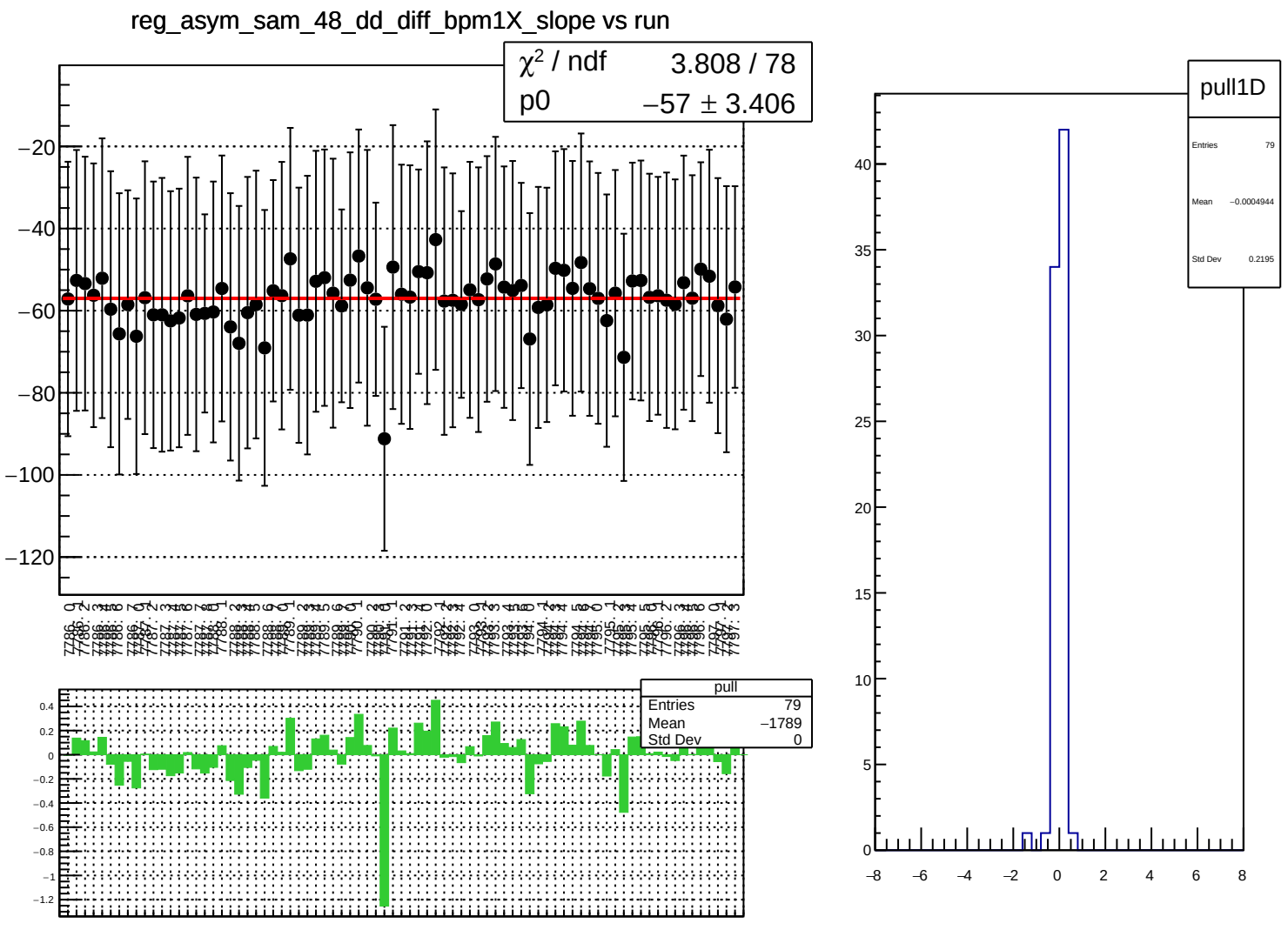

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.648 / 78
p0 −58.09 ± 3.691
pull
Entries 79
Mean −1830
Std Dev 0
pull1D
Entries 79
Mean 0.0005502
Std Dev 0.2426

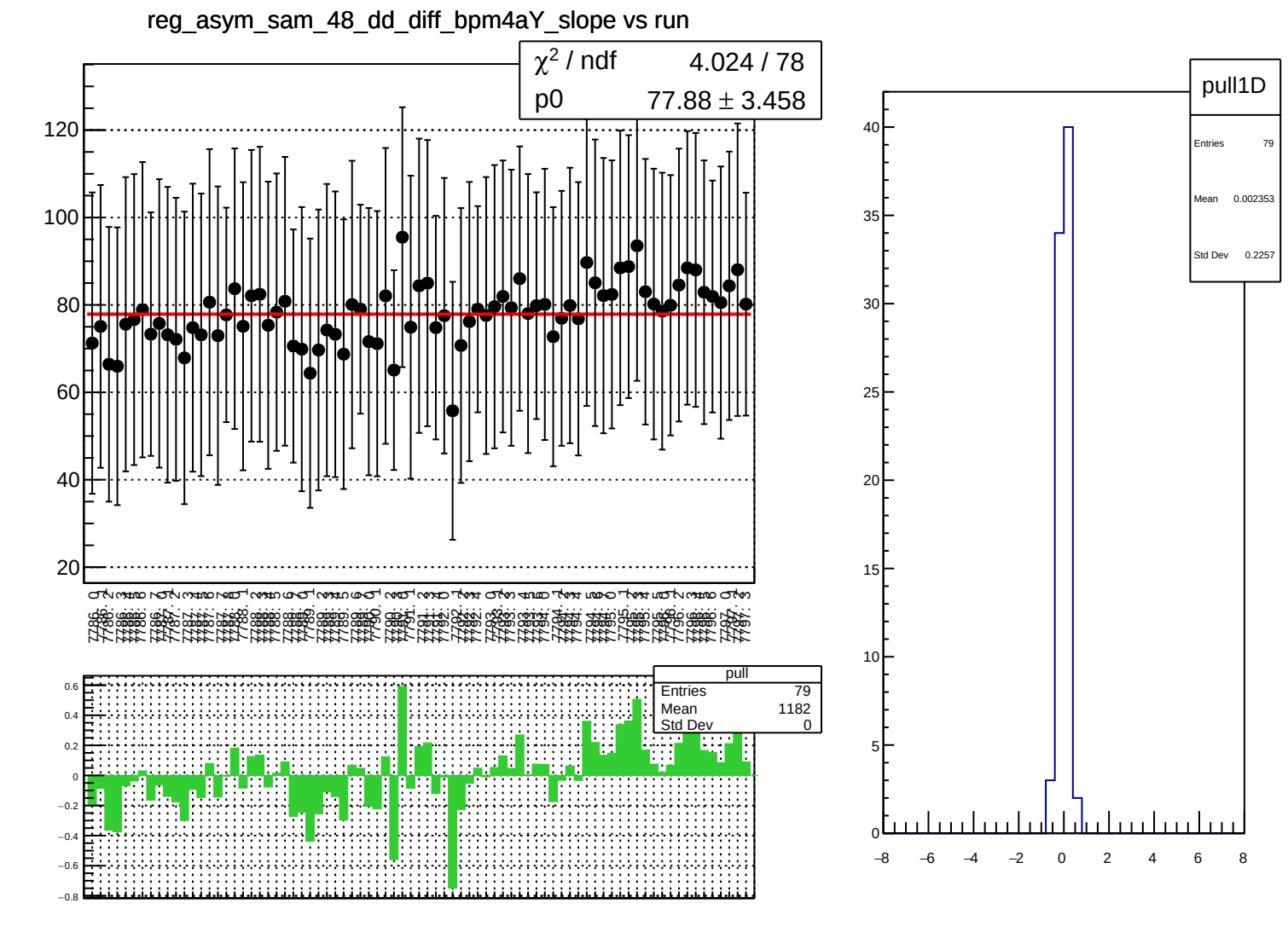

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.539 / 78
p0 44.07 ± 4.886
pull
Entries 79
Mean 936.6
Std Dev 0

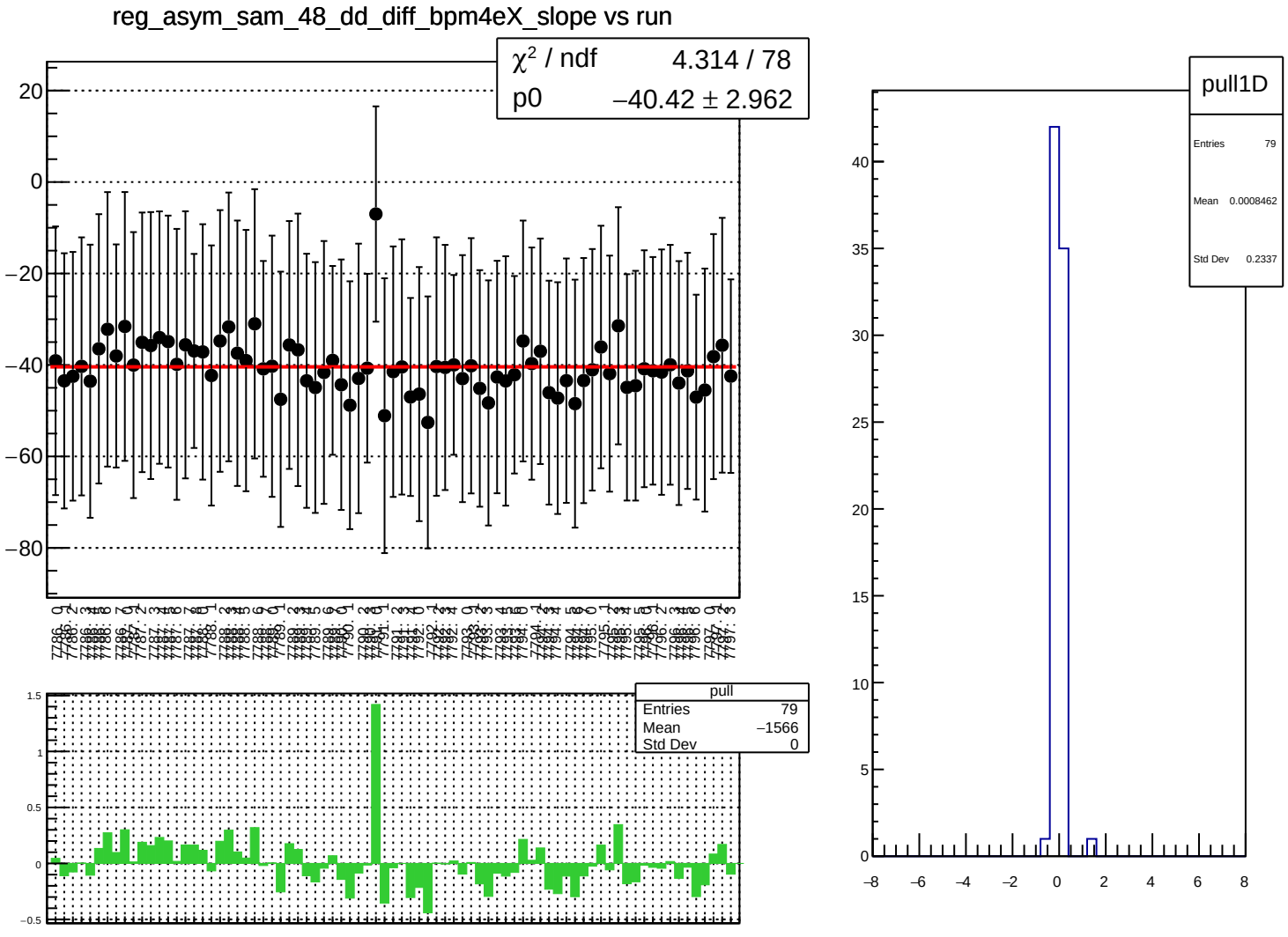

pull1D
Entries 79
Mean −0.002634
Std Dev 0.2397

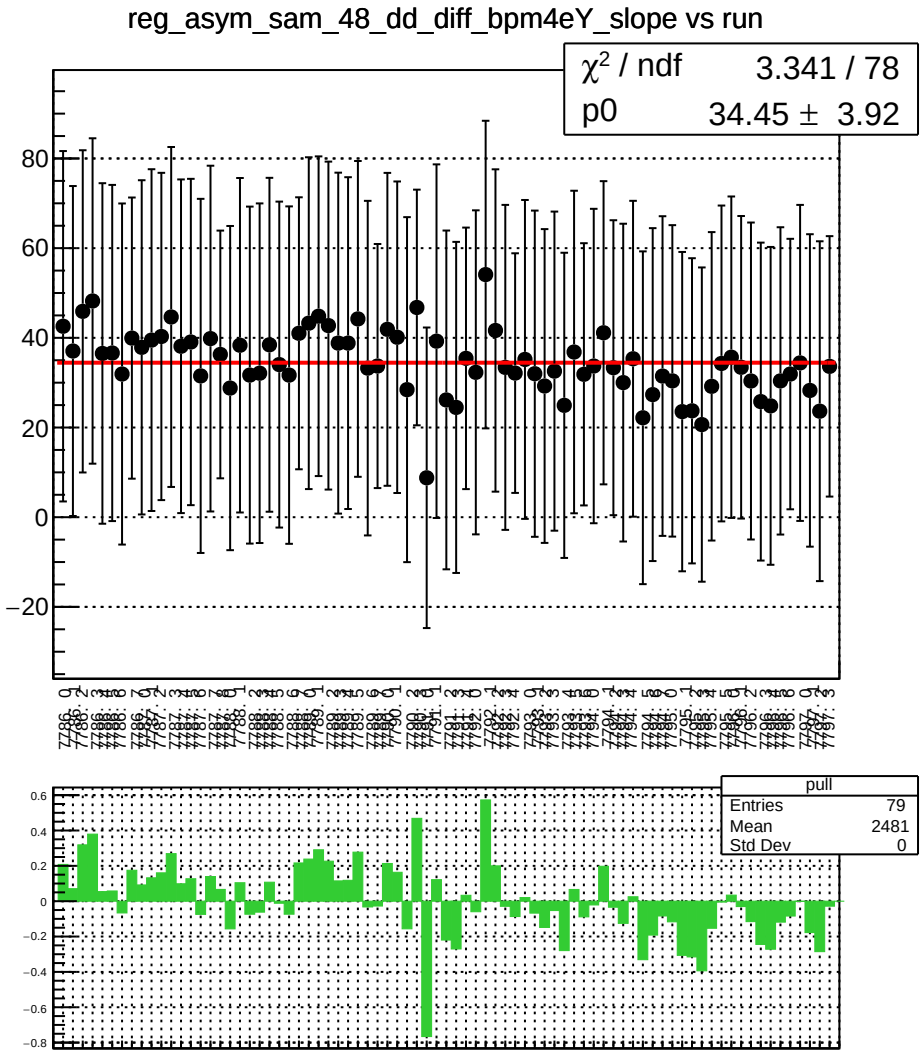

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 4.47 / 78
p0 −2.641 ± 0.1519
pull
Entries 79
Mean 2564
Std Dev 0

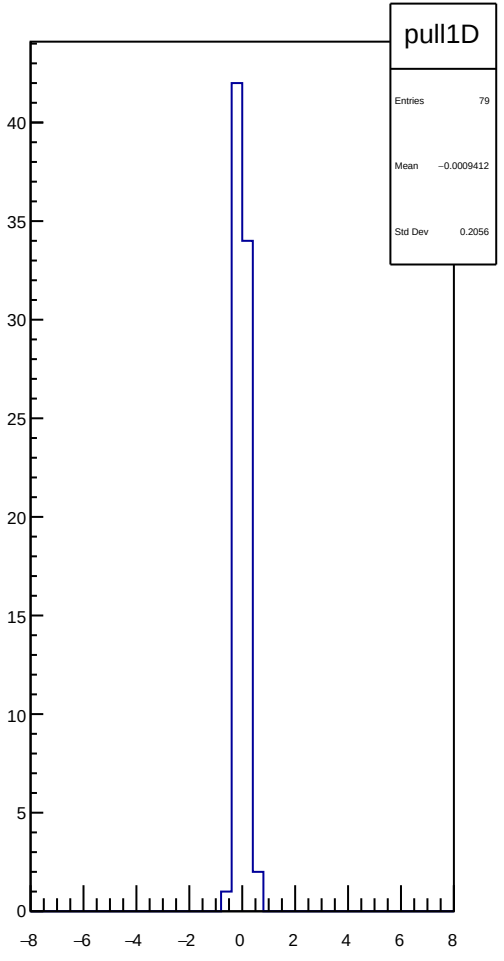

pull1D
Entries 79
Mean −0.0009467
Std Dev 0.2379

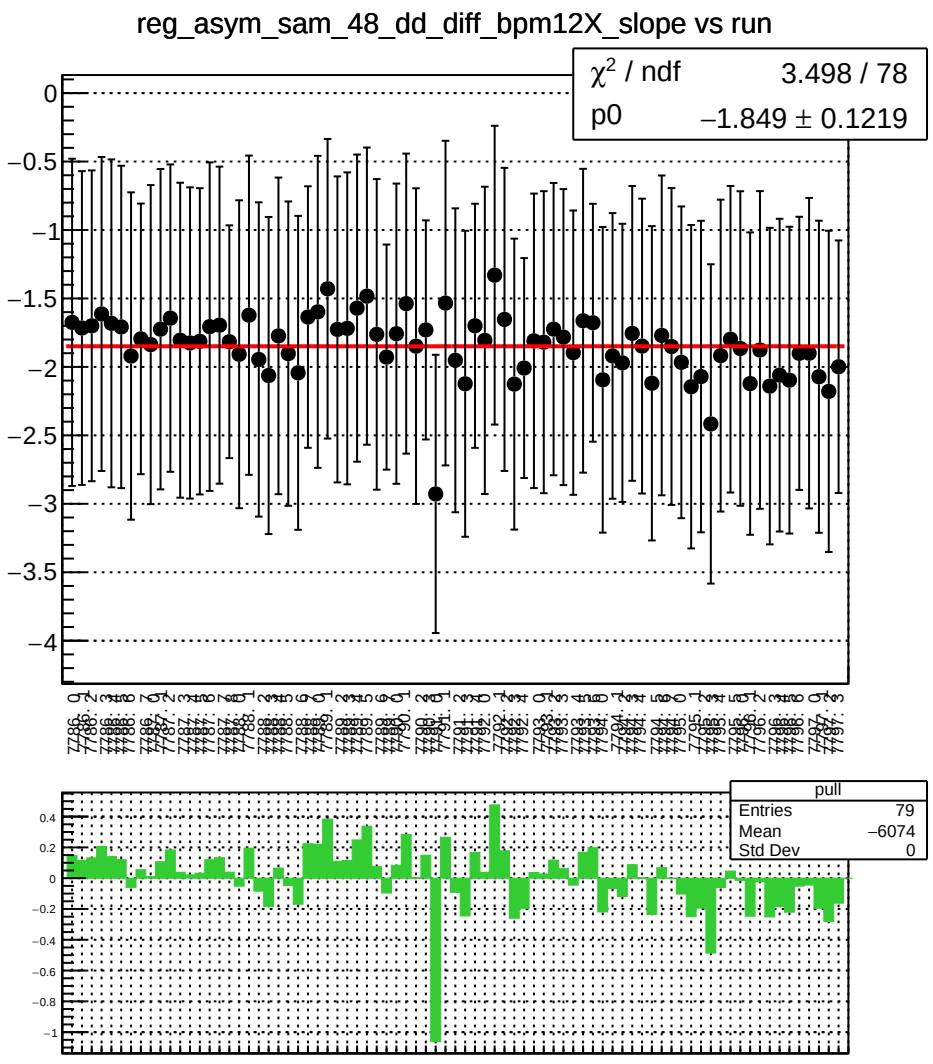

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.808 / 78
p0 −57 ± 3.406
−20
−40
−60
−80
−100
−120
pull
Entries 79
Mean −1789
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 79
Mean −0.0004944
Std Dev 0.2195
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

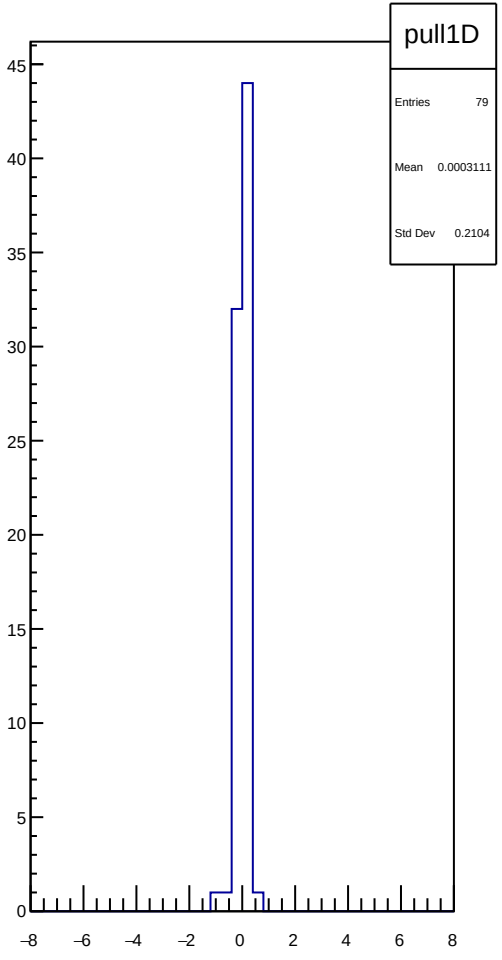

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.024 / 78
p0 77.88 ± 3.458
pull
Entries 79
Mean 1182
Std Dev 0
pull1D
Entries 79
Mean 0.002353
Std Dev 0.2257

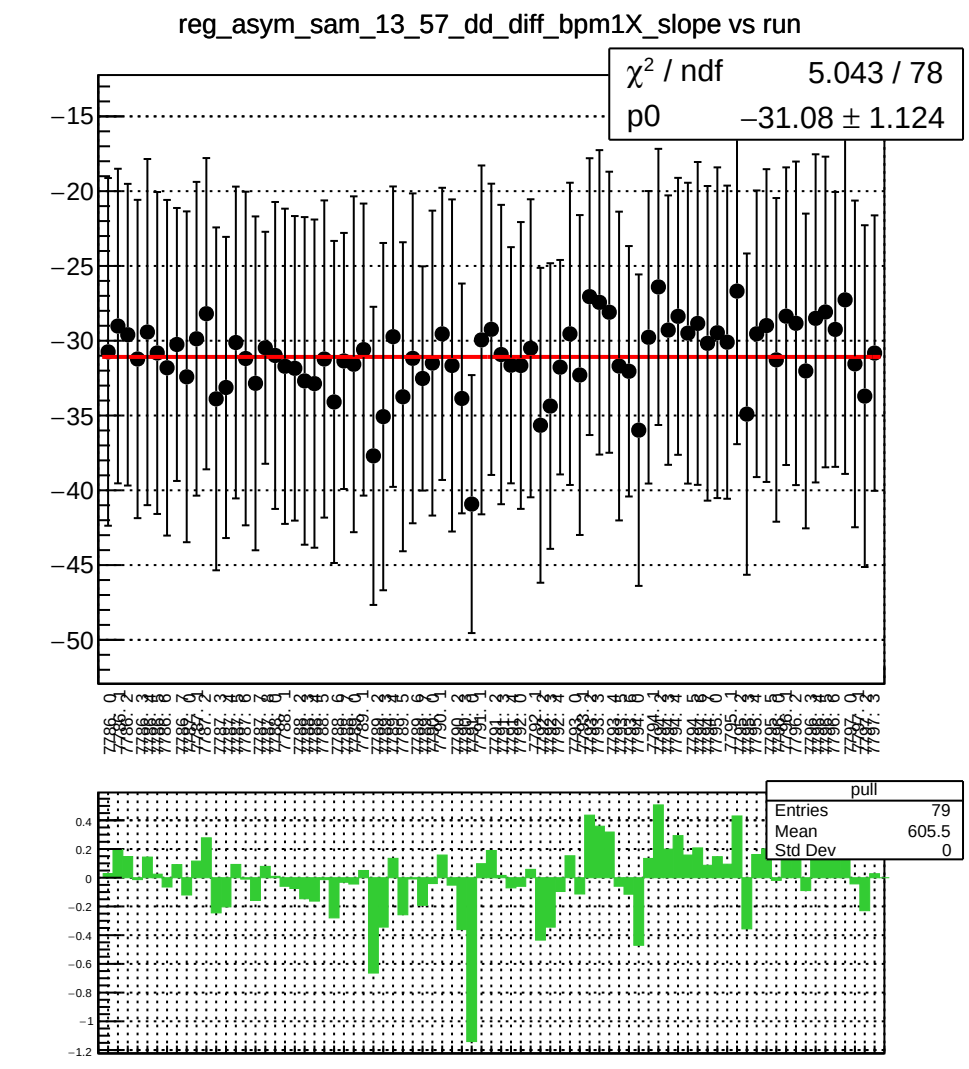

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.314 / 78
p0 −40.42 ± 2.962
pull
Entries 79
Mean −1566
Std Dev 0
pull1D
Entries 79
Mean 0.0008462
Std Dev 0.2337

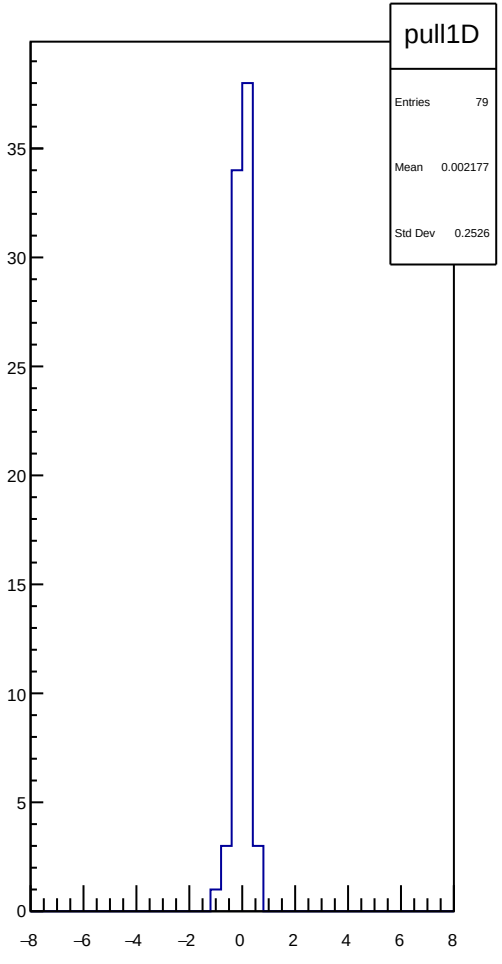

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.341 / 78
p0 34.45 ± 3.92
pull
Entries 79
Mean 2481
Std Dev 0

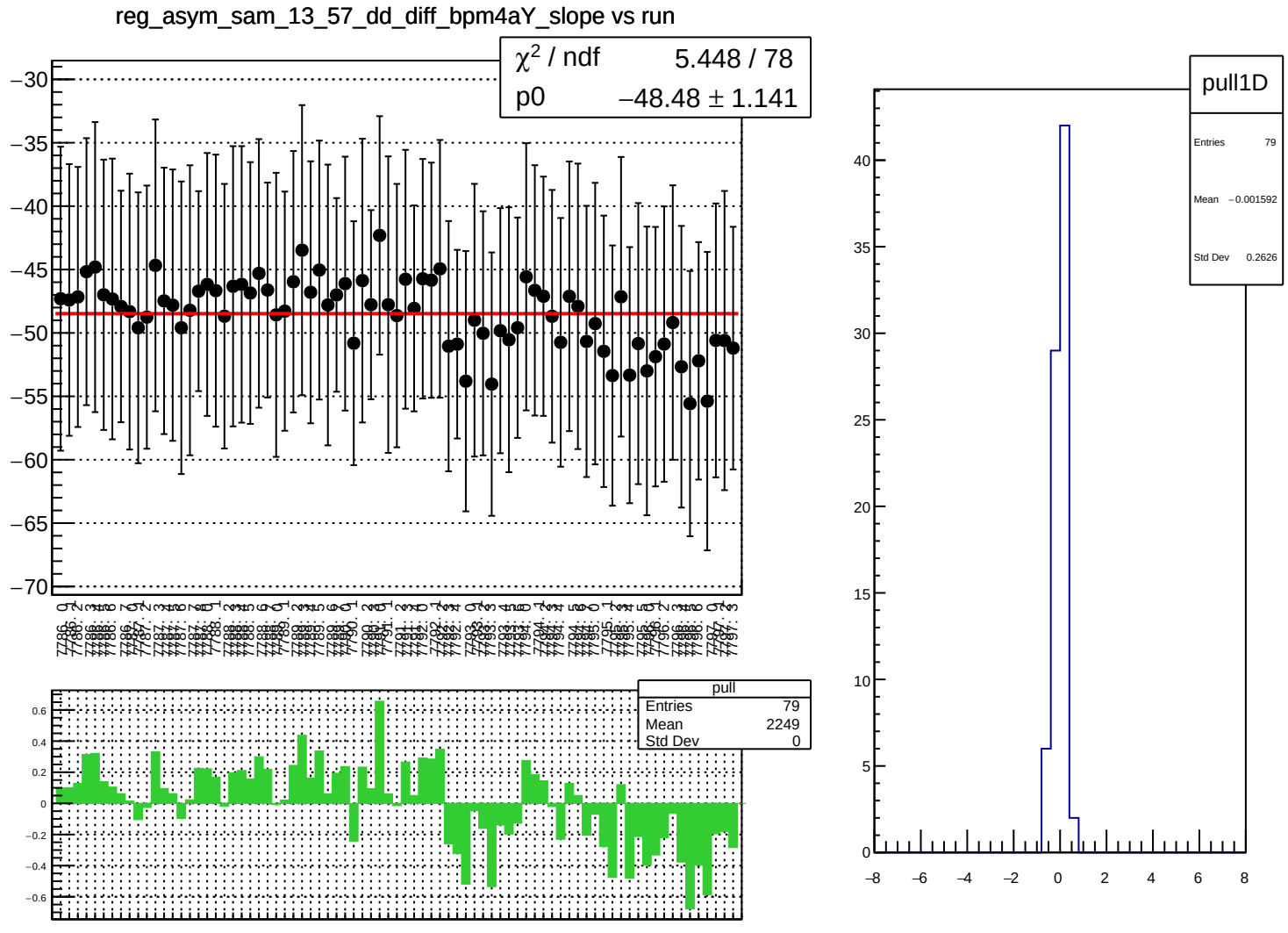

pull1D
Entries 79
Mean −0.0009412
Std Dev 0.2056

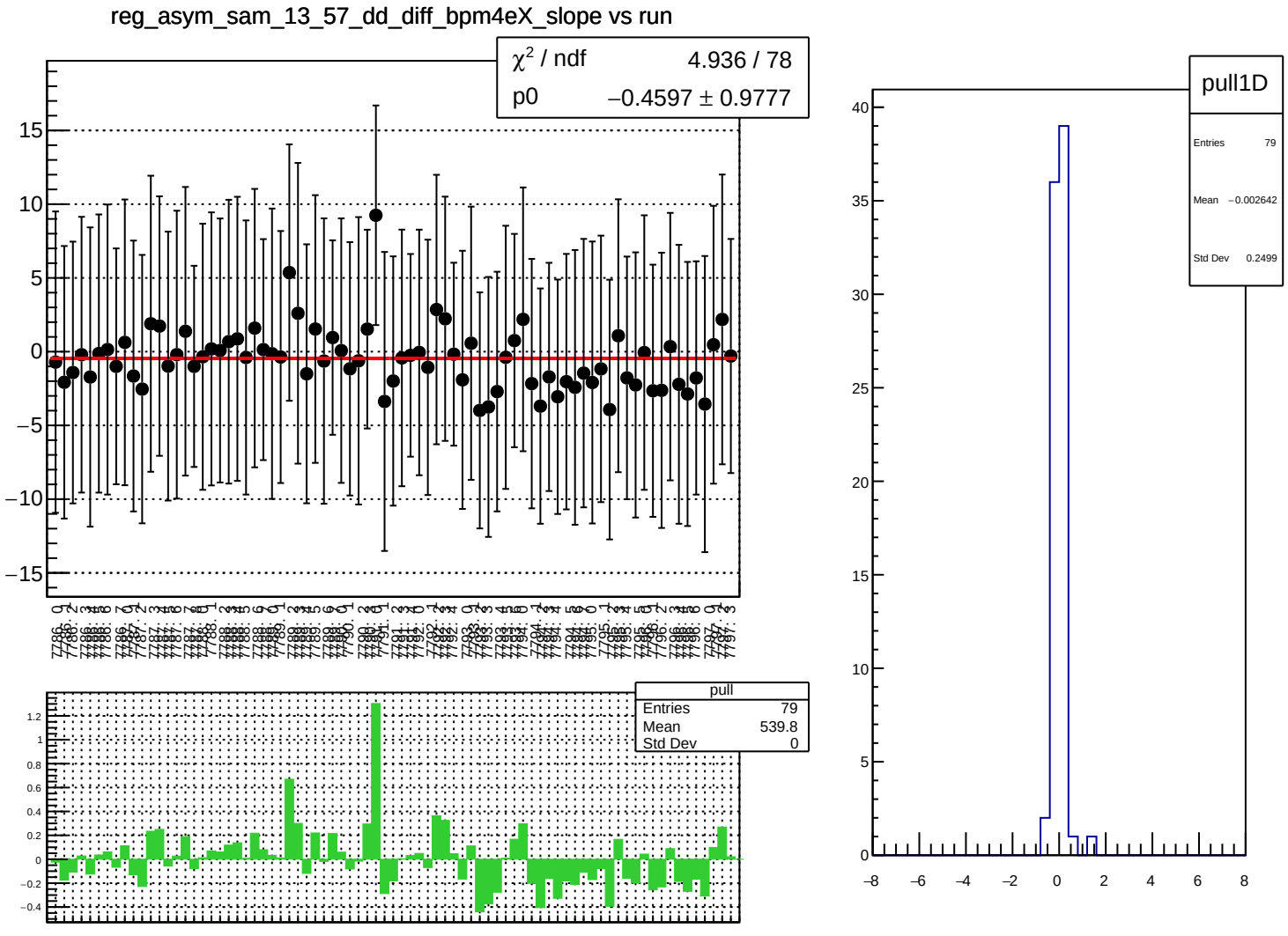

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.498 / 78
p0 −1.849 ± 0.1219
pull
Entries 79
Mean −6074
Std Dev 0

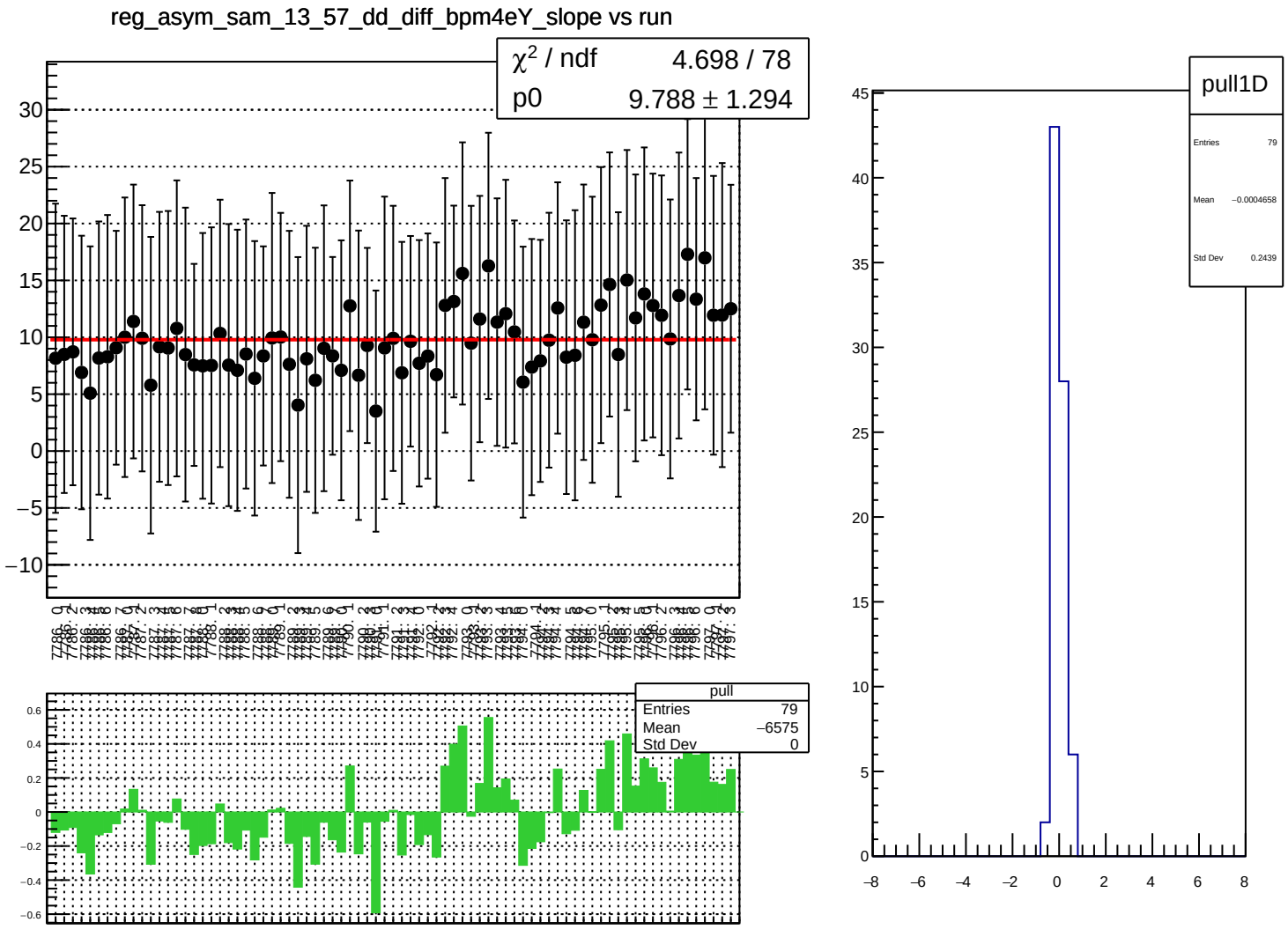

pull1D
Entries 79
Mean 0.0003111
Std Dev 0.2104

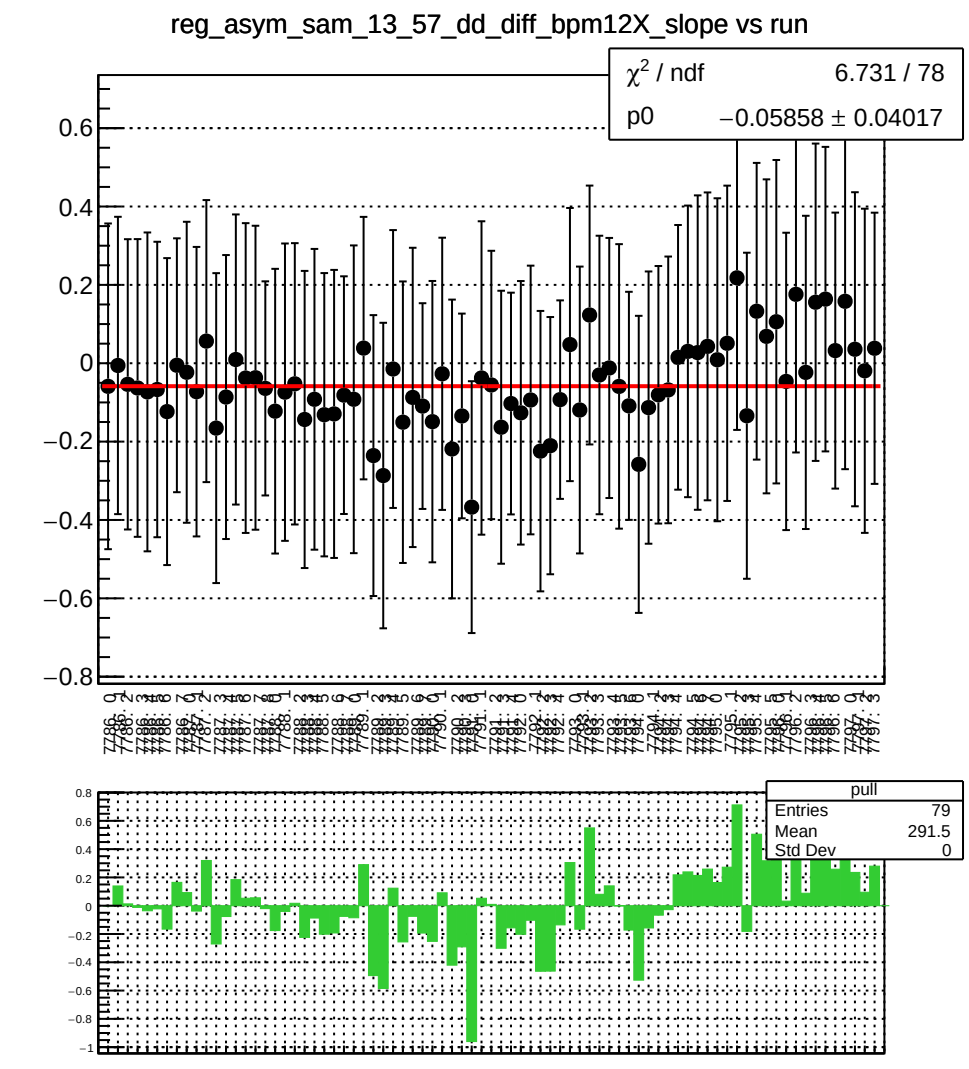

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 5.043 / 78
p0 −31.08 ± 1.124
pull
Entries 79
Mean 605.5
Std Dev 0

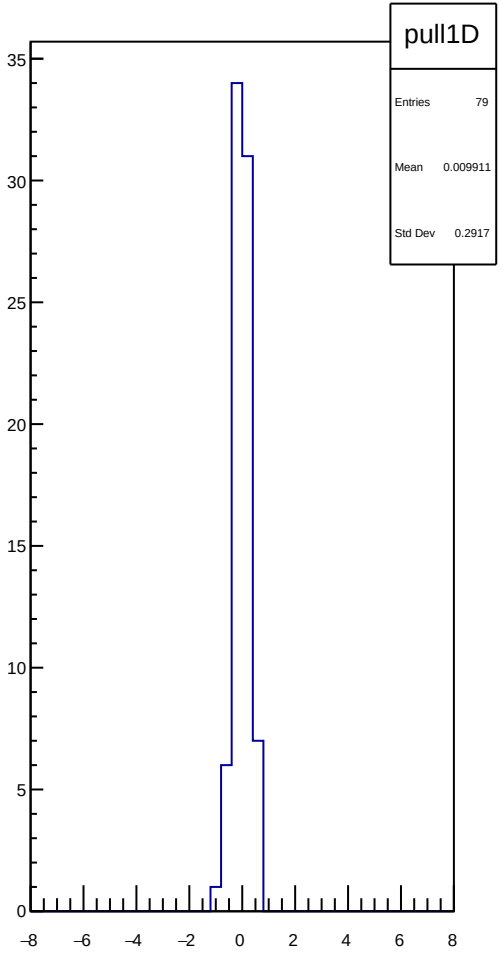

pull1D
Entries 79
Mean 0.002177
Std Dev 0.2526

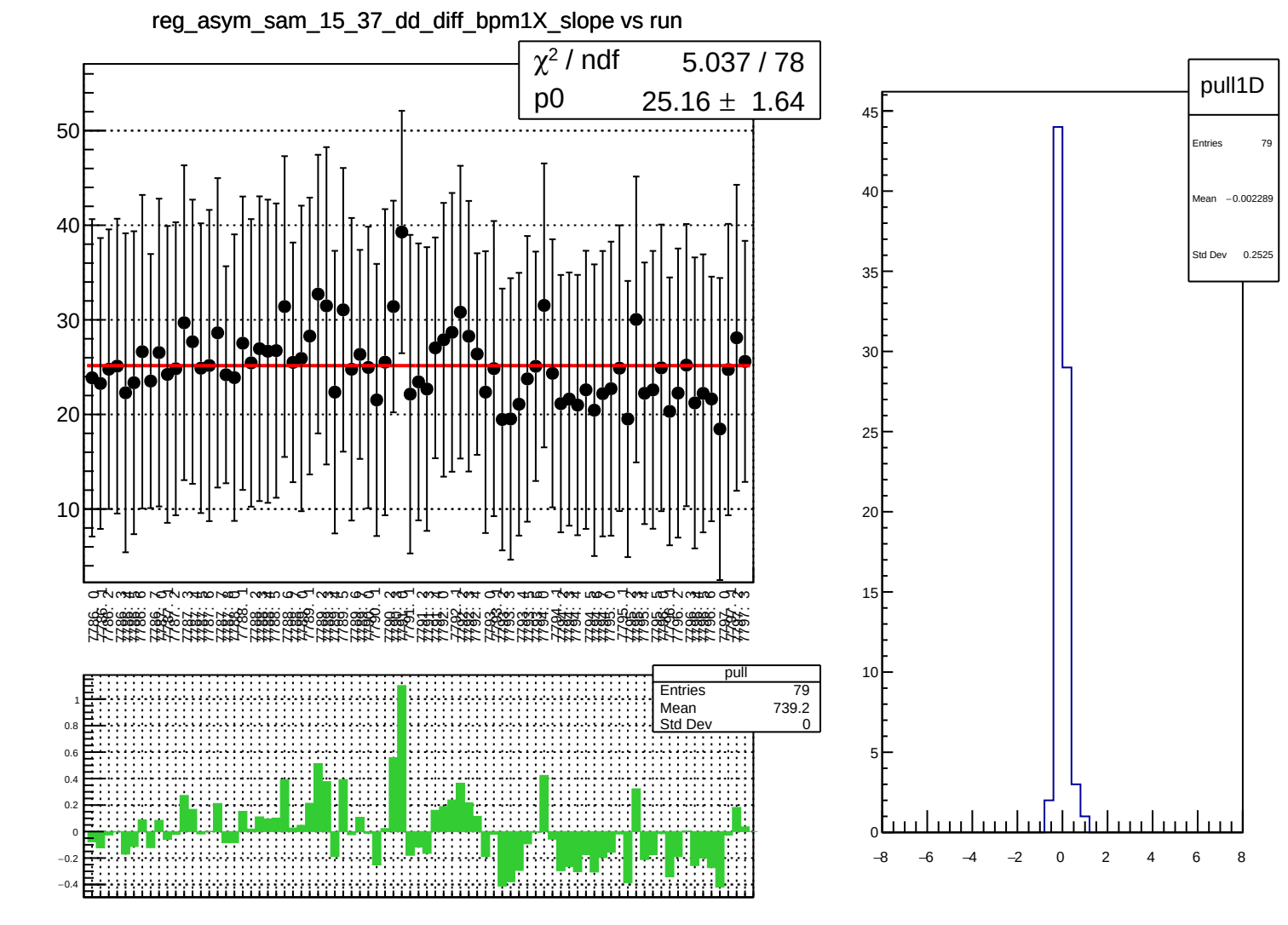

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.448 / 78
p0 −48.48 ± 1.141
pull
Entries 79
Mean 2249
Std Dev 0
pull1D
Entries 79
Mean −0.001592
Std Dev 0.2626

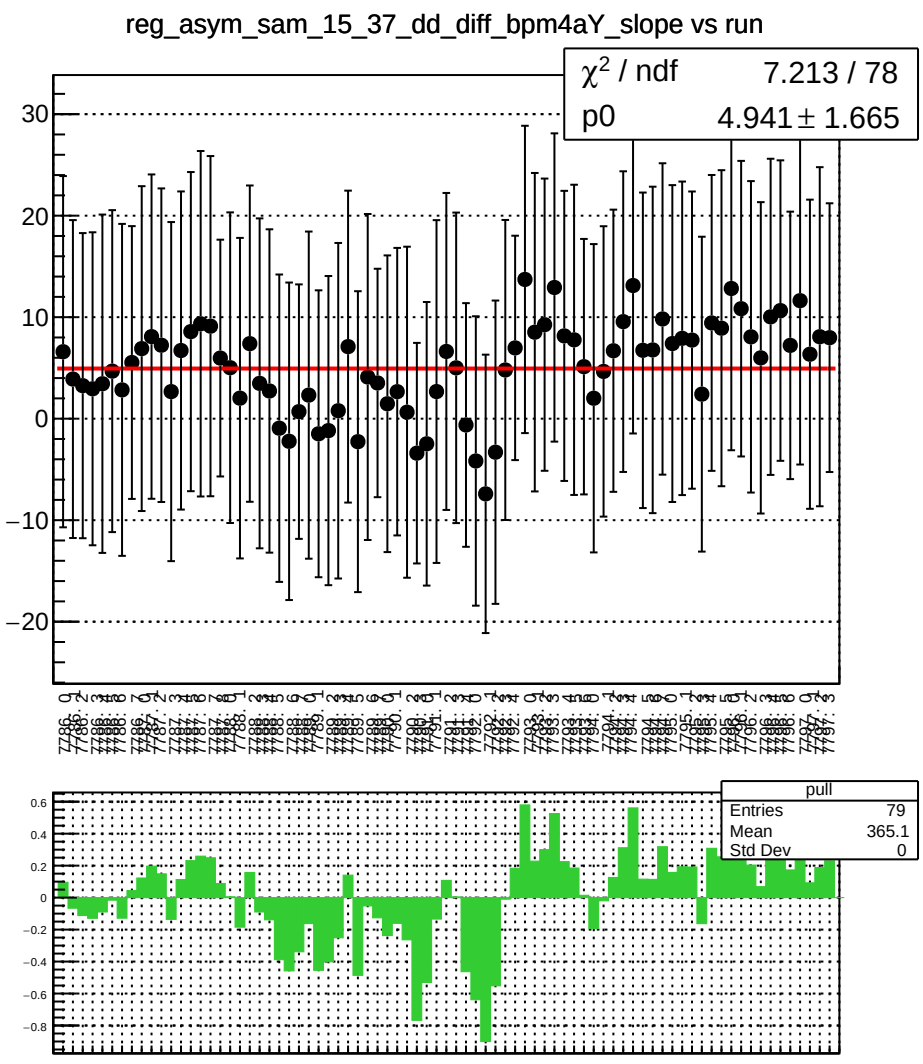

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.936 / 78
p0 −0.4597 ± 0.9777
pull
Entries 79
Mean 539.8
Std Dev 0
pull1D
Entries 79
Mean −0.002642
Std Dev 0.2499

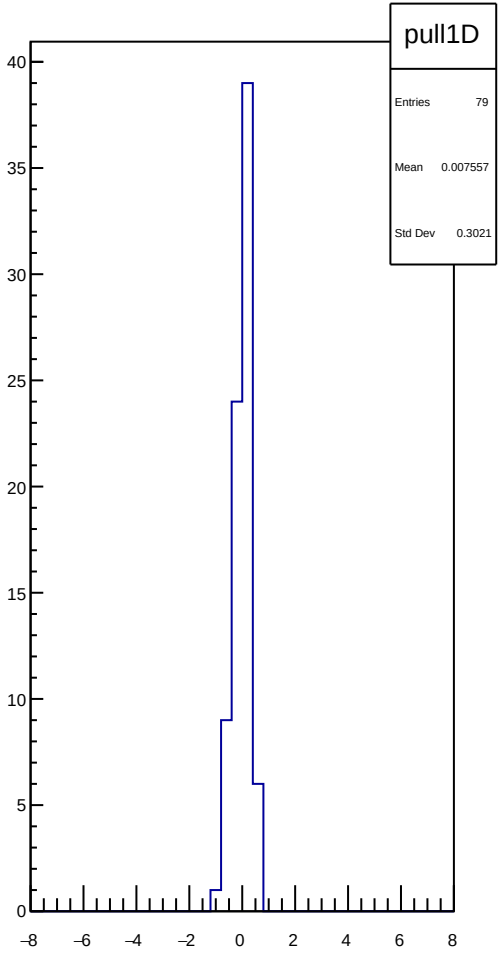

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.698 / 78
p0 9.788 ± 1.294
pull
Entries 79
Mean −6575
Std Dev 0
pull1D
Entries 79
Mean −0.0004658
Std Dev 0.2439

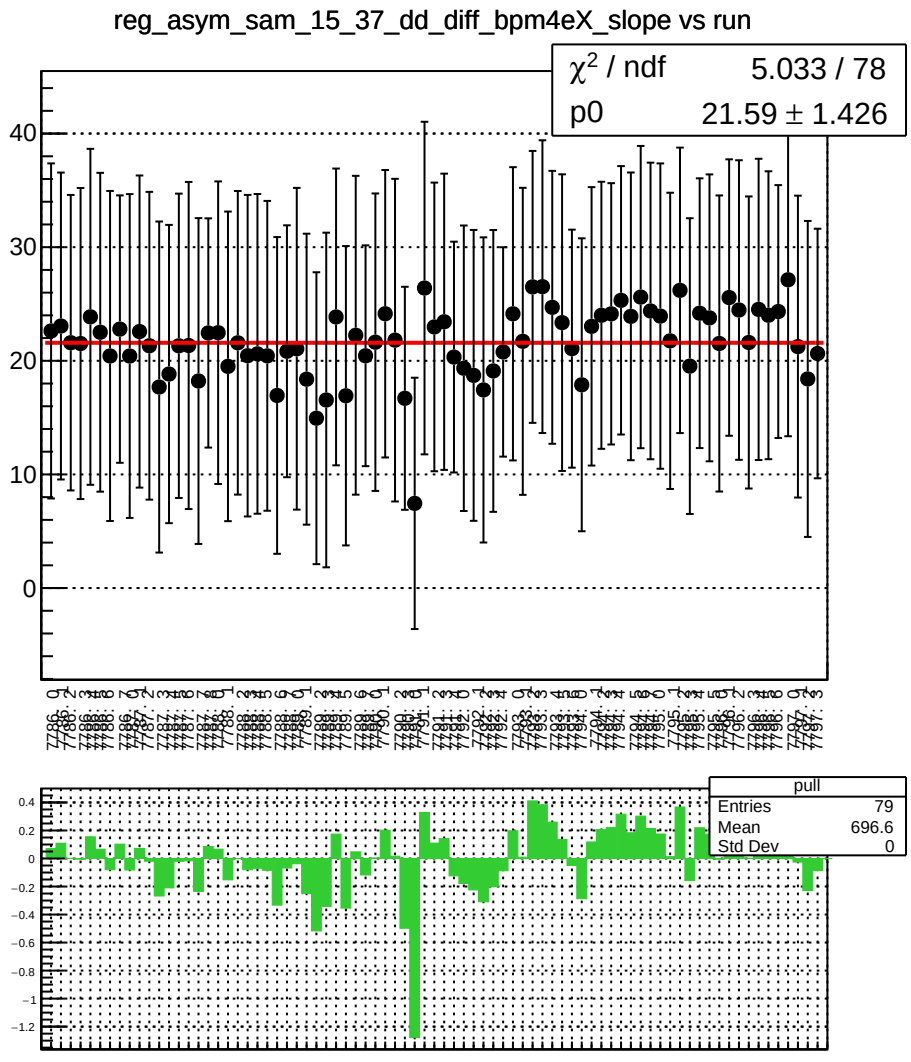

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 6.731 / 78
p0 −0.05858 ± 0.04017
pull
Entries 79
Mean 291.5
Std Dev 0

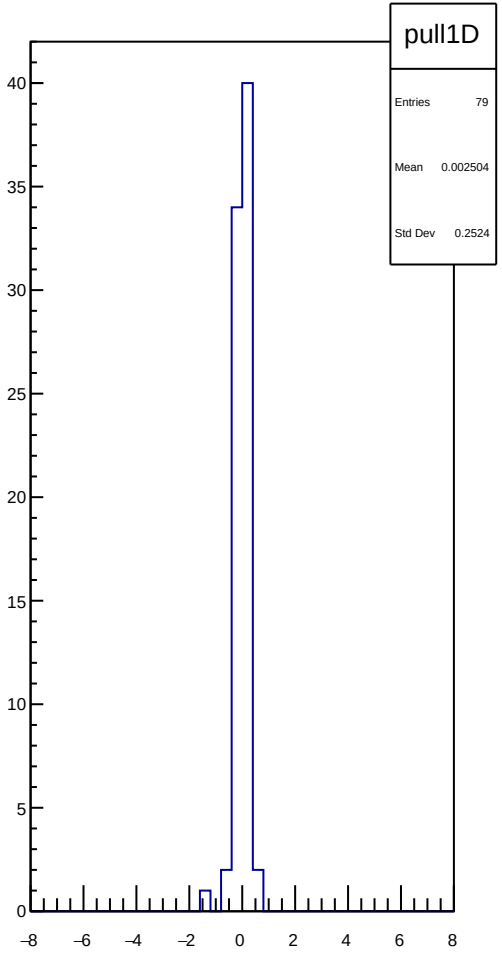

pull1D
Entries 79
Mean 0.009911
Std Dev 0.2917

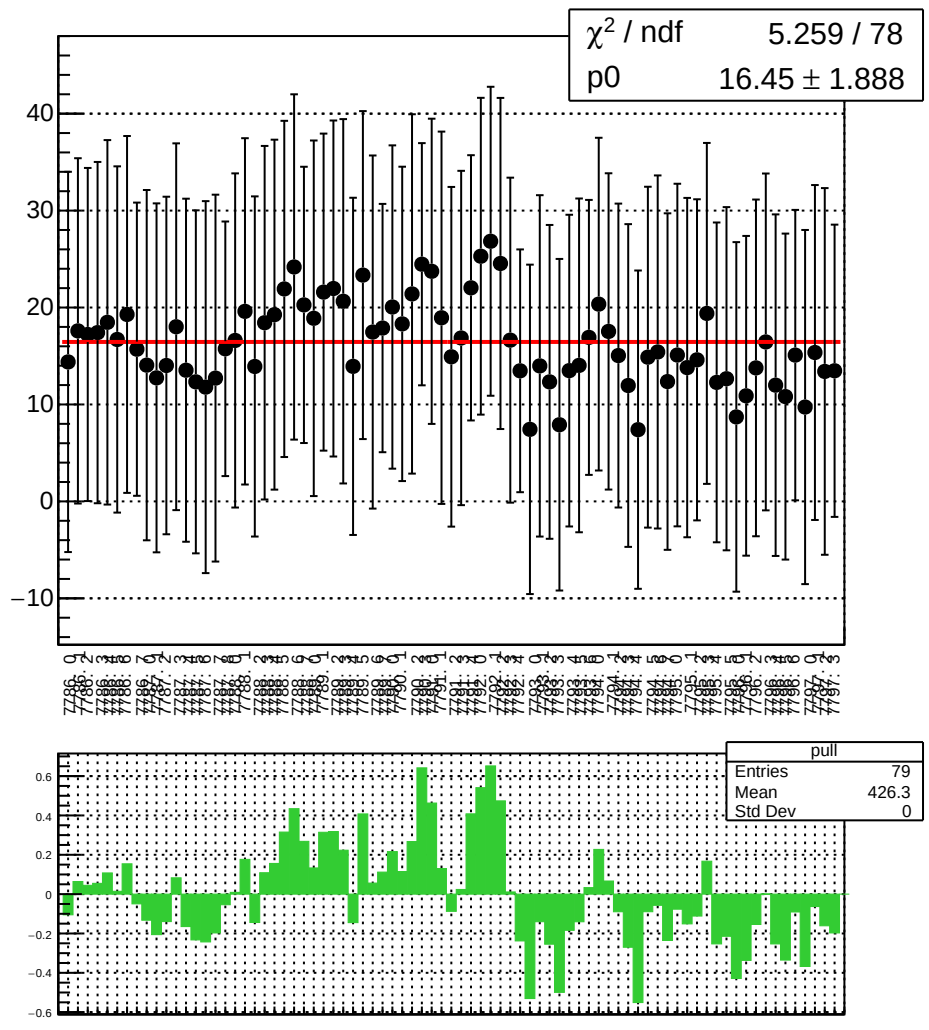

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 5.037 / 78
p0 25.16 ± 1.64
pull
Entries 79
Mean 739.2
Std Dev 0
pull1D
Entries 79
Mean −0.002289
Std Dev 0.2525

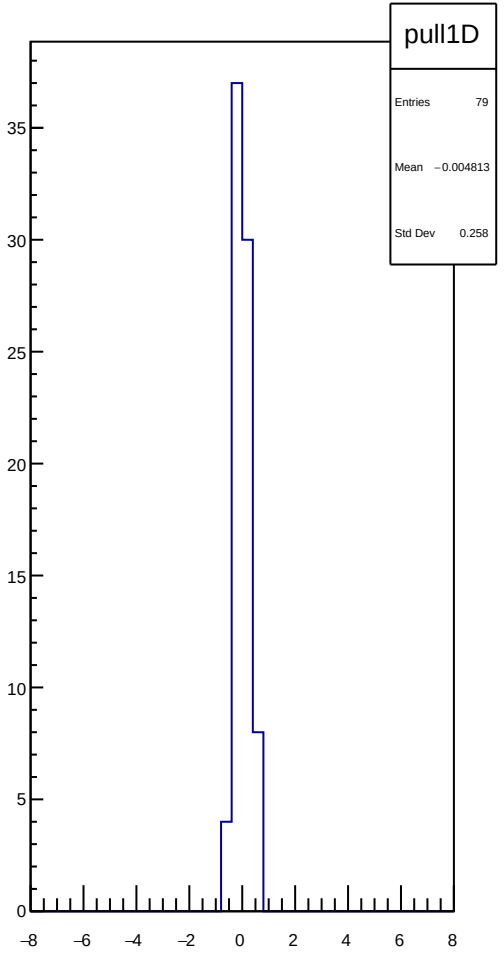

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.213 / 78
p0 4.941 ± 1.665
pull
Entries 79
Mean 365.1
Std Dev 0

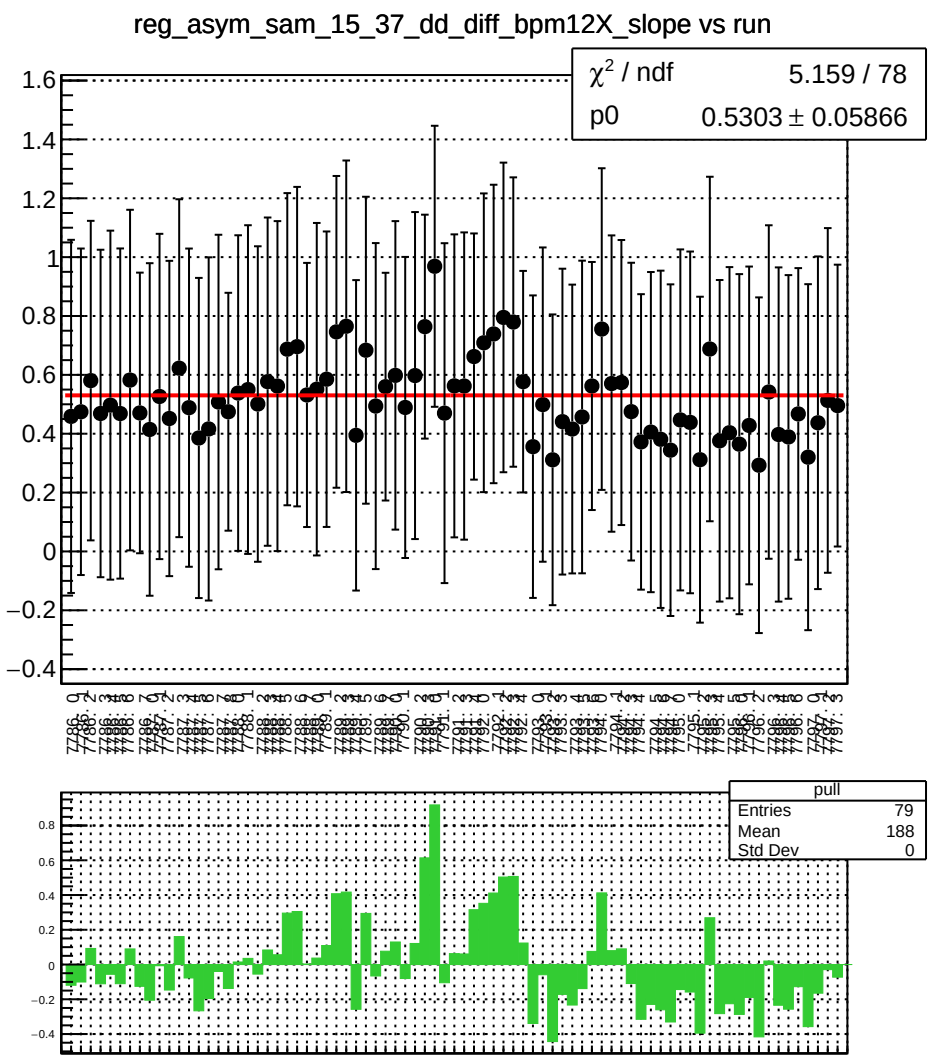

pull1D
Entries 79
Mean 0.007557
Std Dev 0.3021

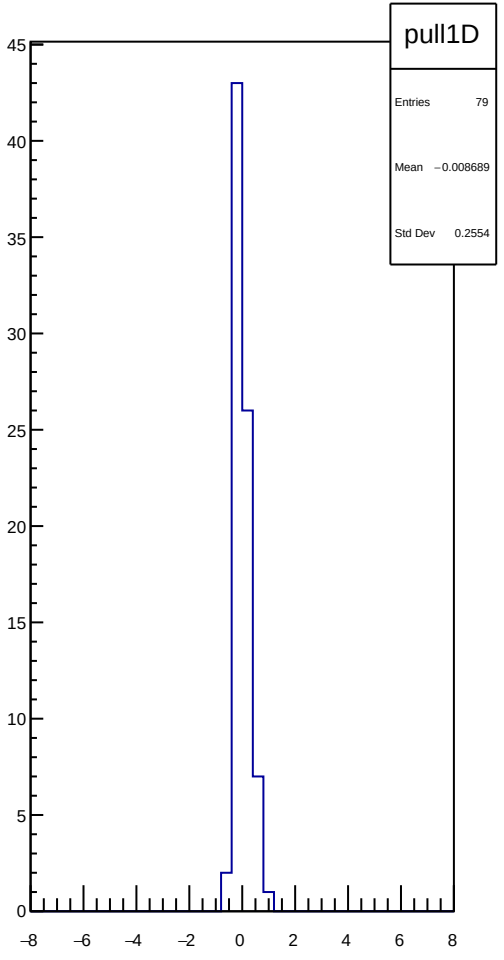

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 5.033 / 78
p0 21.59 ± 1.426
pull
Entries 79
Mean 696.6
Std Dev 0

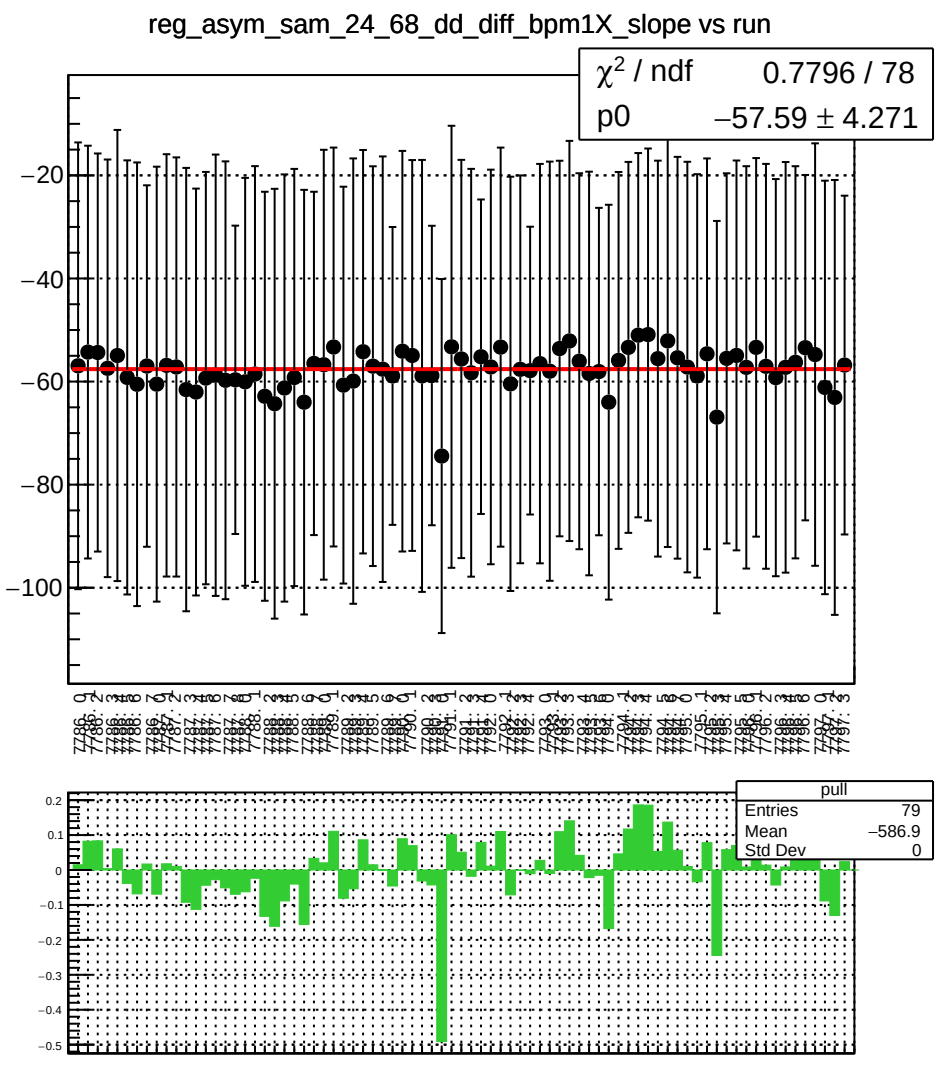

pull1D
Entries 79
Mean 0.002504
Std Dev 0.2524

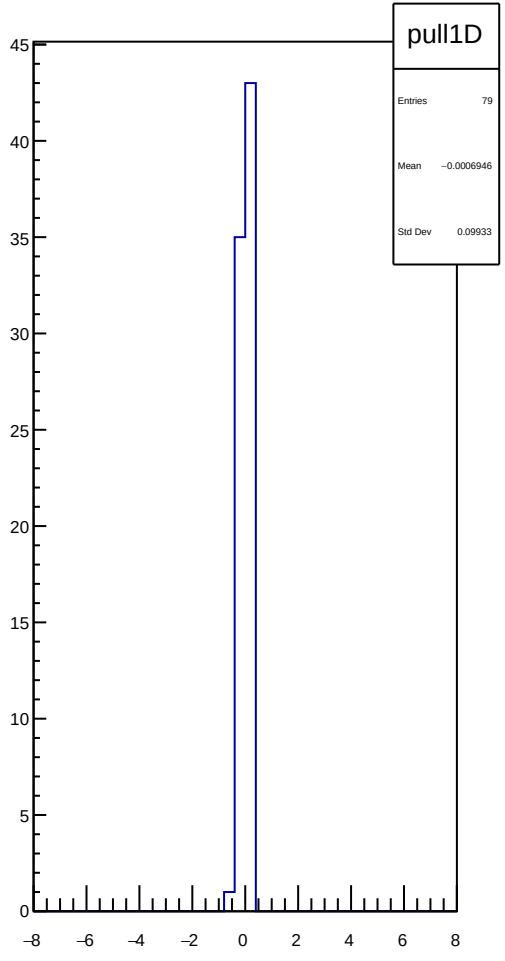

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.259 / 78
p0 16.45 ± 1.888
pull
Entries 79
Mean 426.3
Std Dev 0

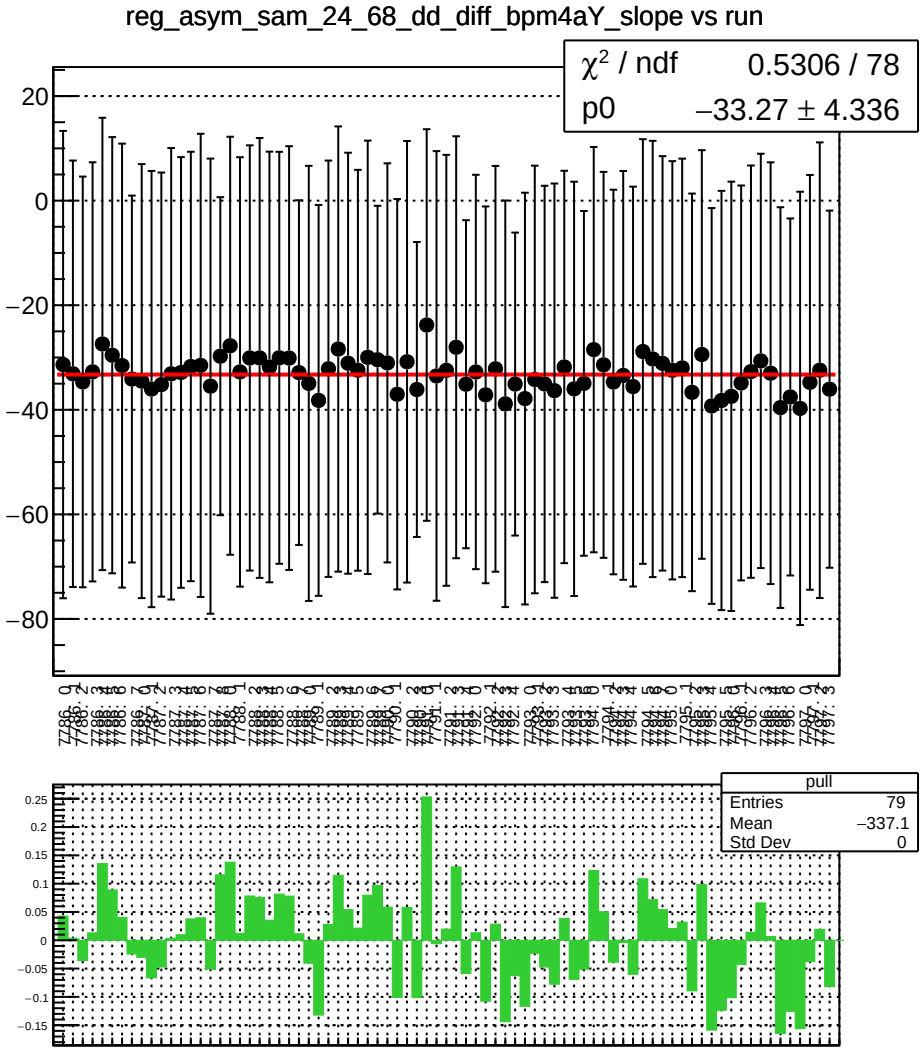

pull1D
Entries 79
Mean −0.004813
Std Dev 0.258

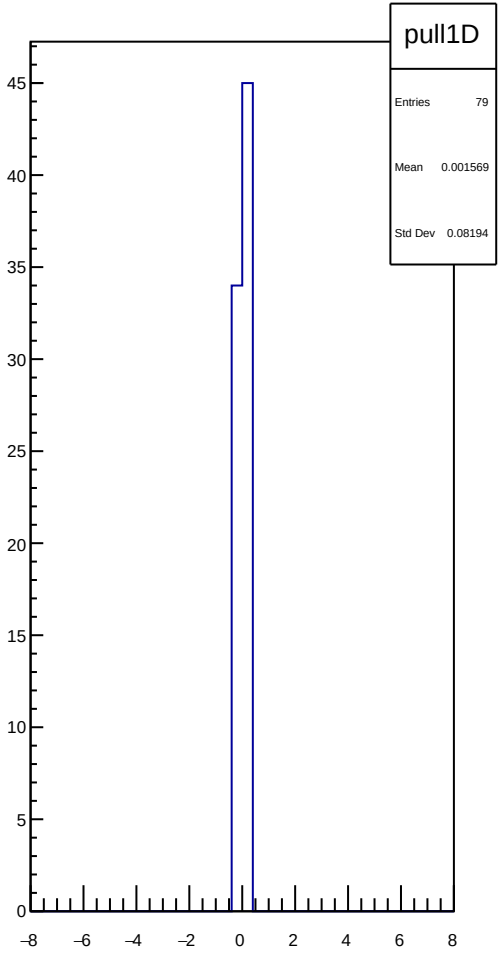

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.159 / 78
p0 0.5303 ± 0.05866
pull
Entries 79
Mean 188
Std Dev 0

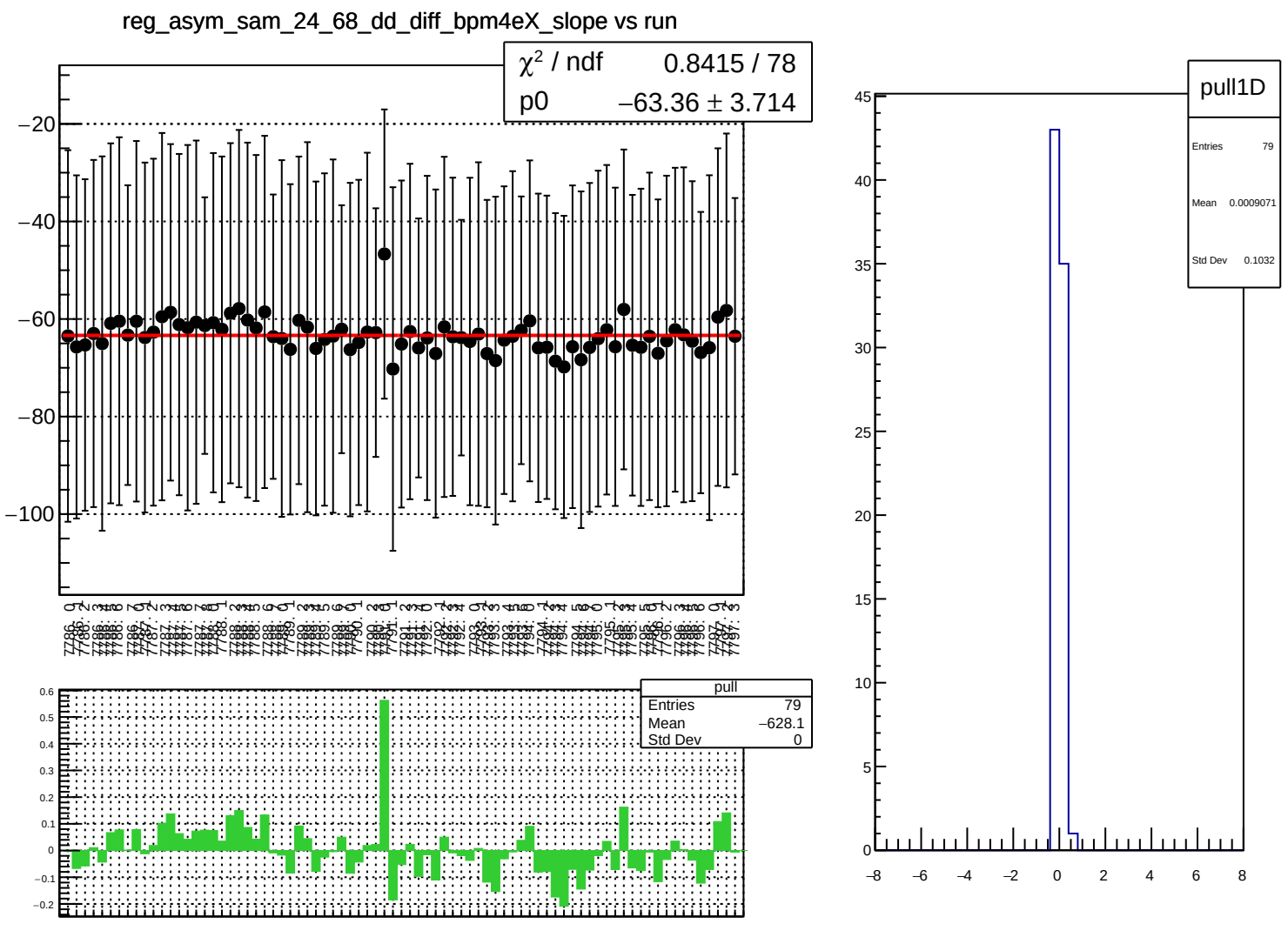

pull1D
Entries 79
Mean −0.008689
Std Dev 0.2554

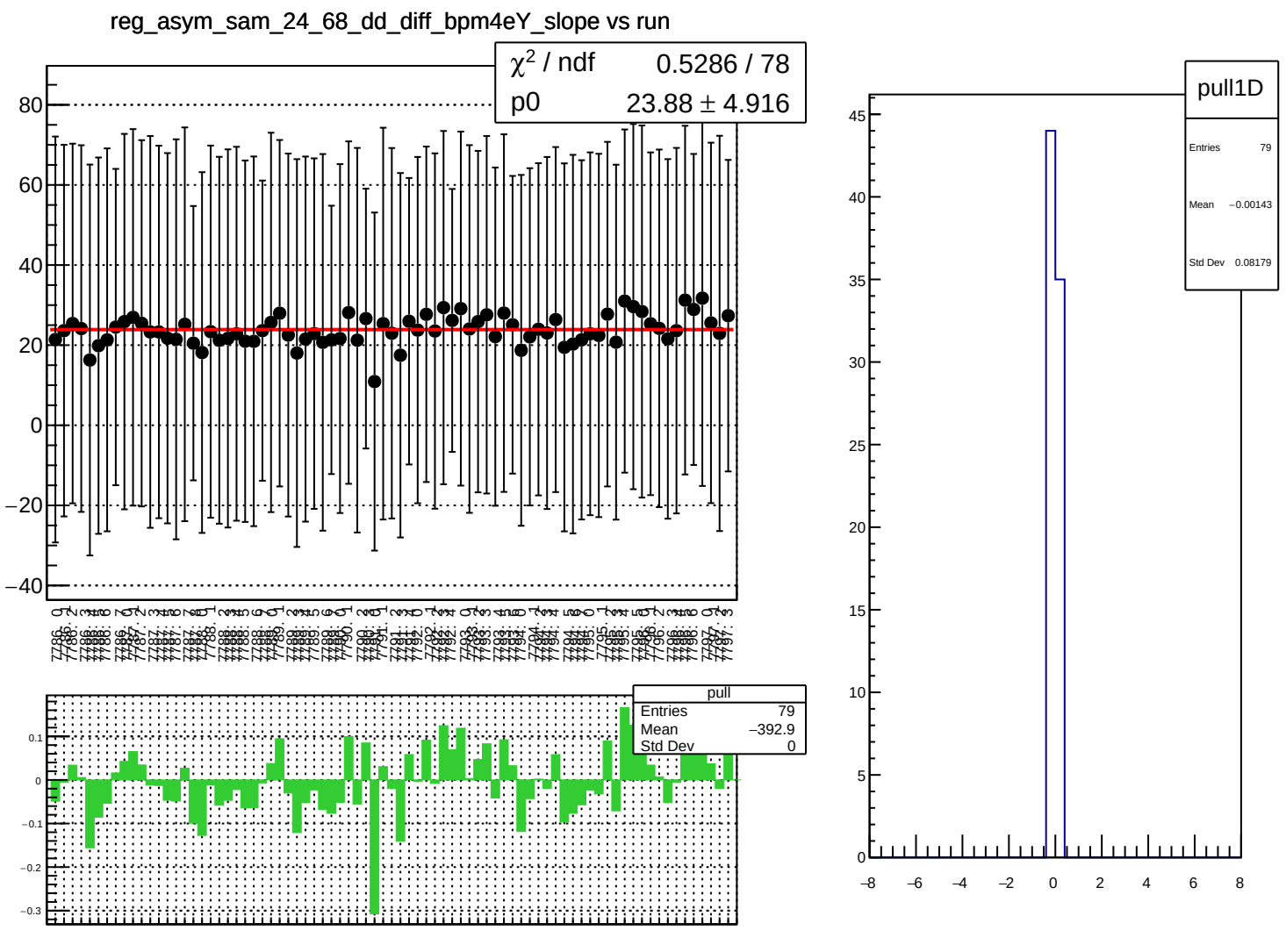

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.7796 / 78
p0 −57.59 ± 4.271
pull
Entries 79
Mean −586.9
Std Dev 0

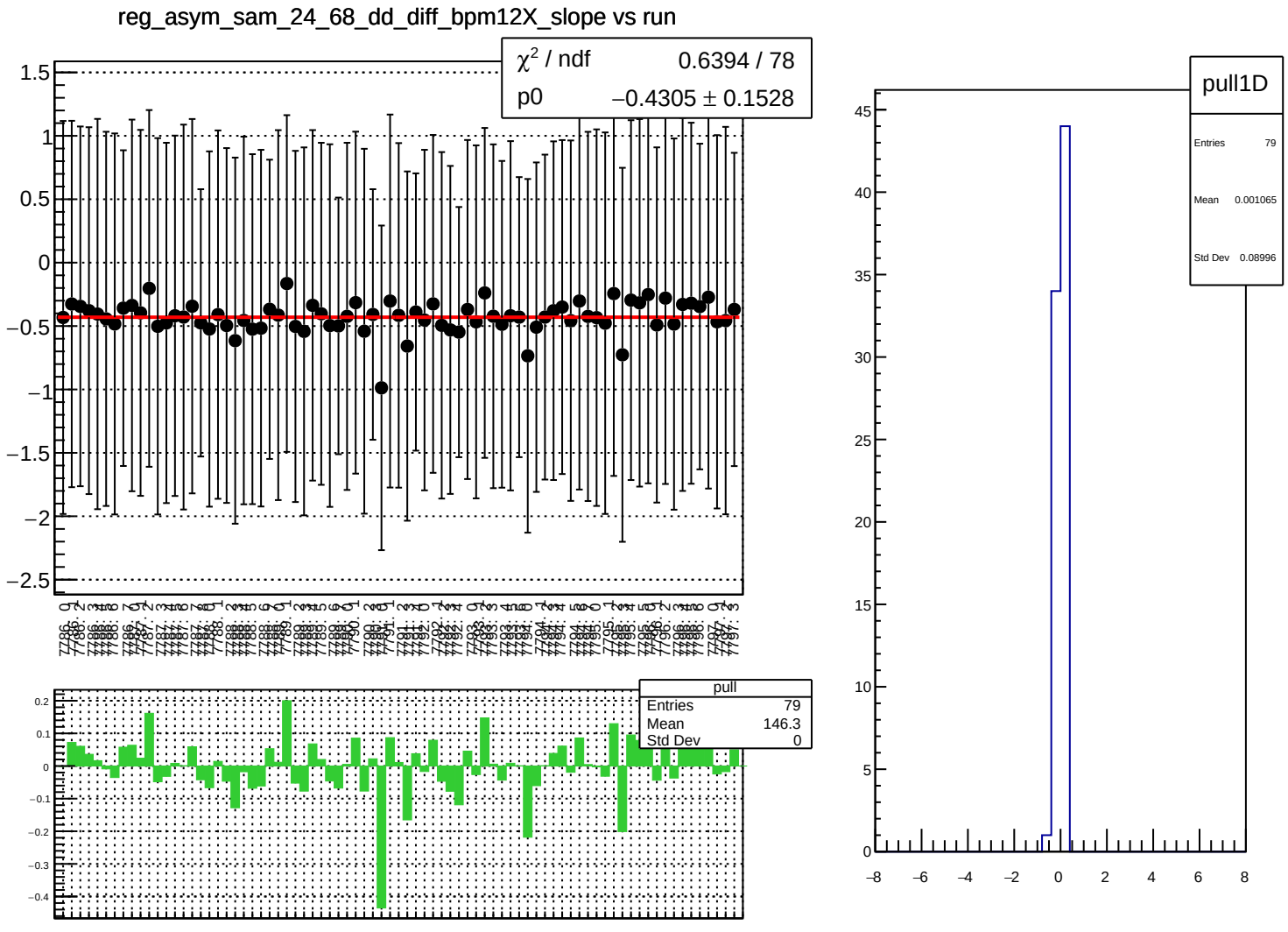

pull1D
Entries 79
Mean −0.0006946
Std Dev 0.09933

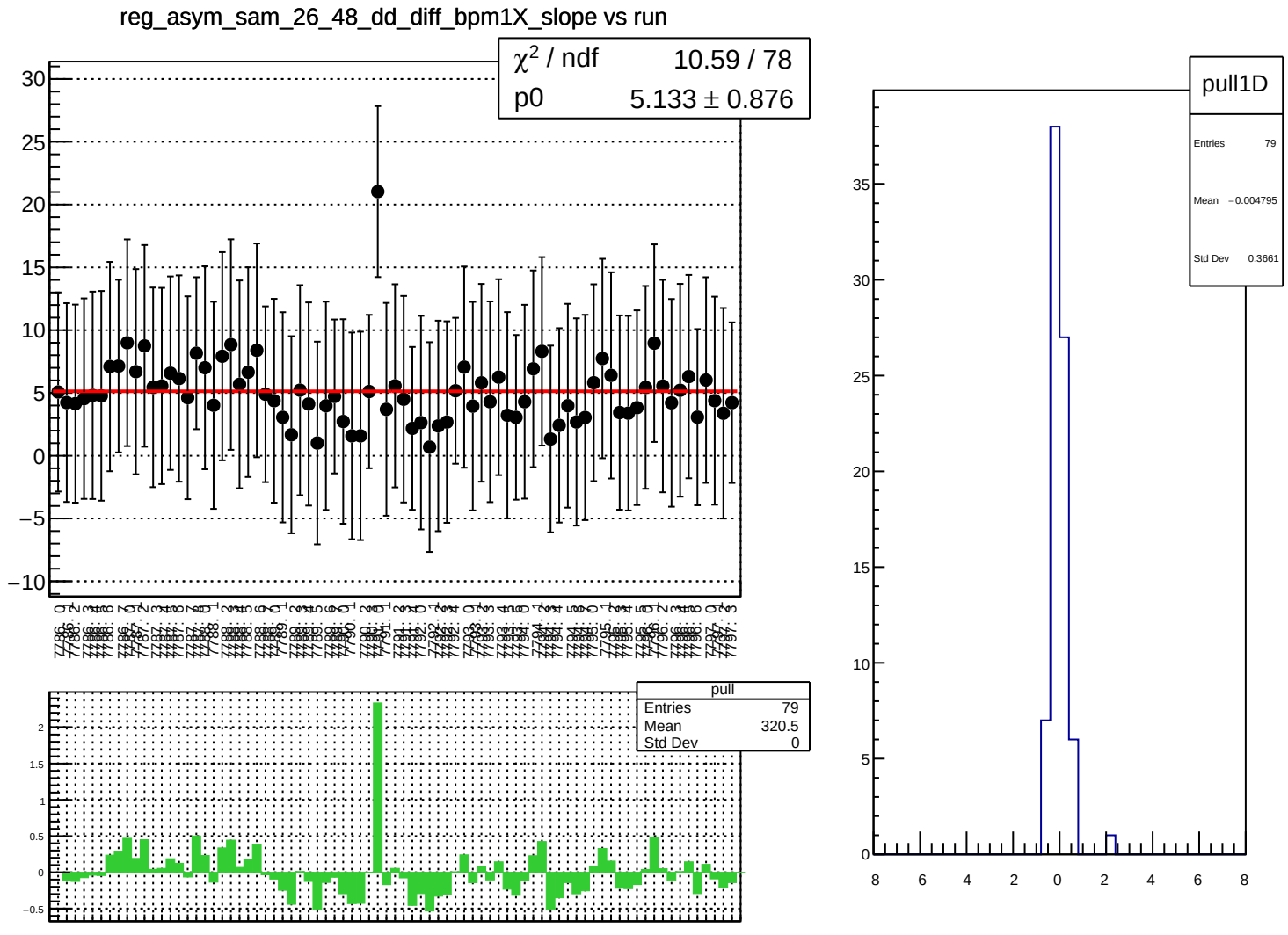

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5306 / 78
p0 −33.27 ± 4.336
pull
Entries 79
Mean −337.1
Std Dev 0

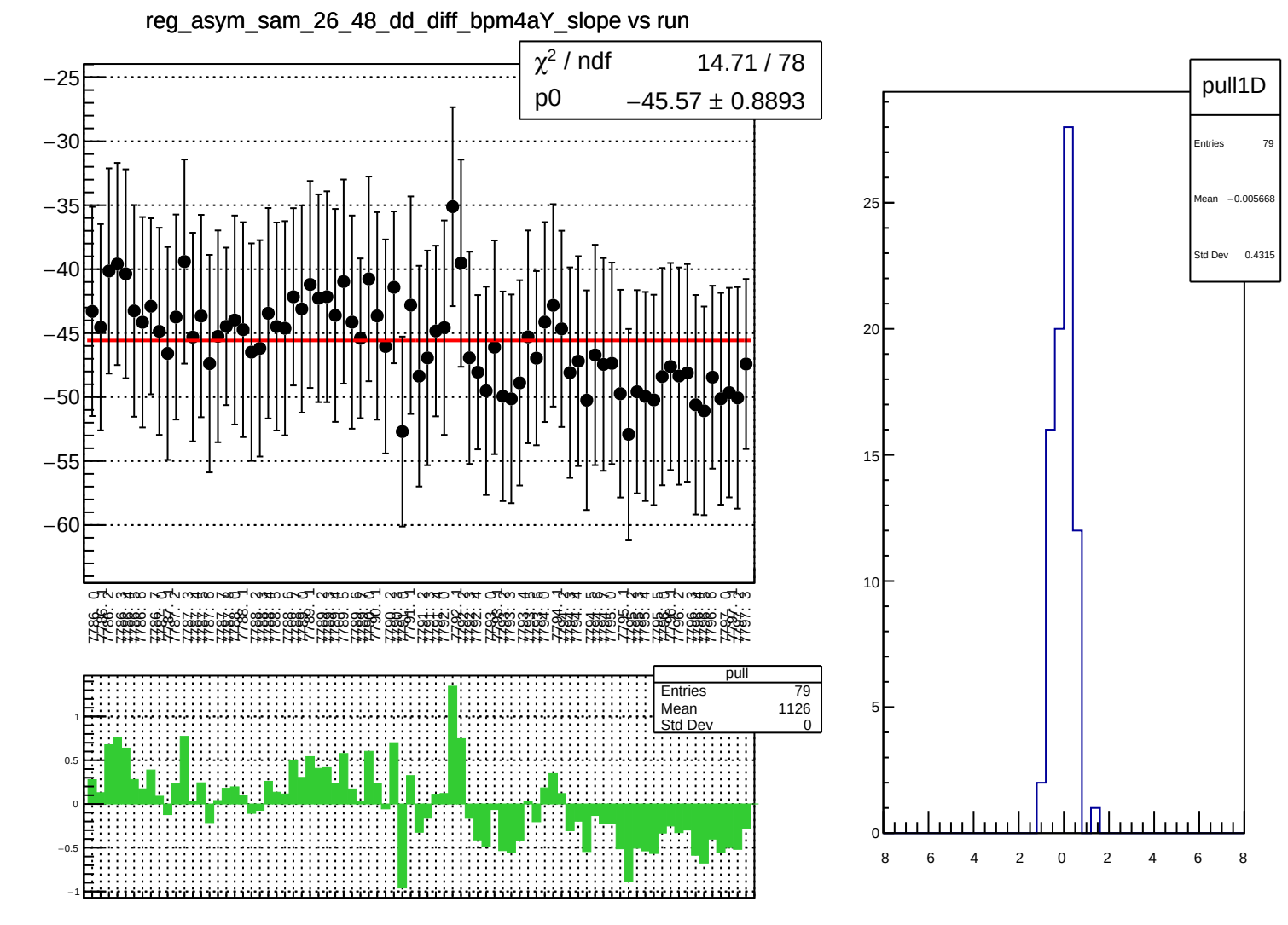

pull1D
Entries 79
Mean 0.001569
Std Dev 0.08194

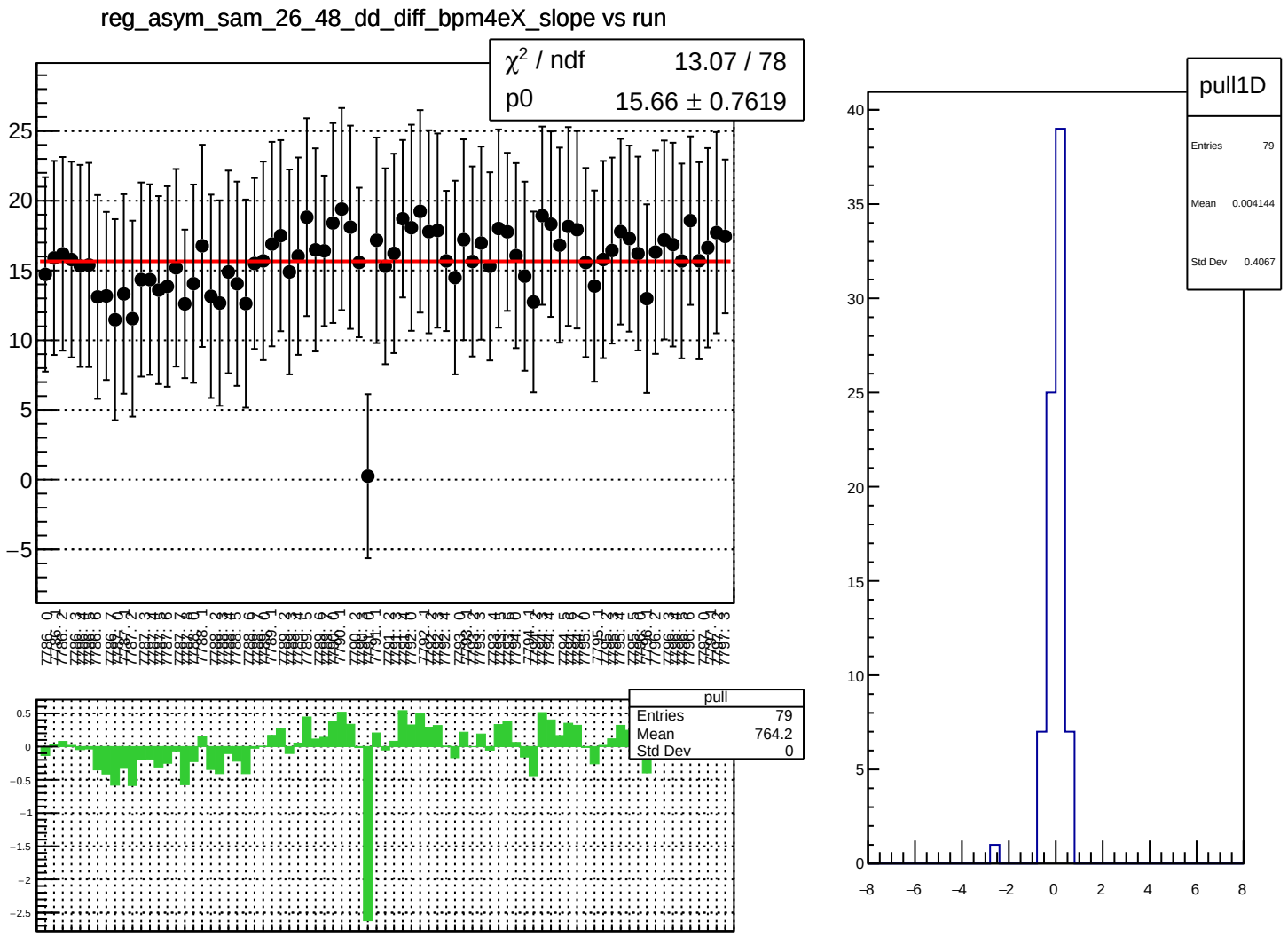

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8415 / 78
p0 −63.36 ± 3.714
pull
Entries 79
Mean −628.1
Std Dev 0
pull1D
Entries 79
Mean 0.0009071
Std Dev 0.1032

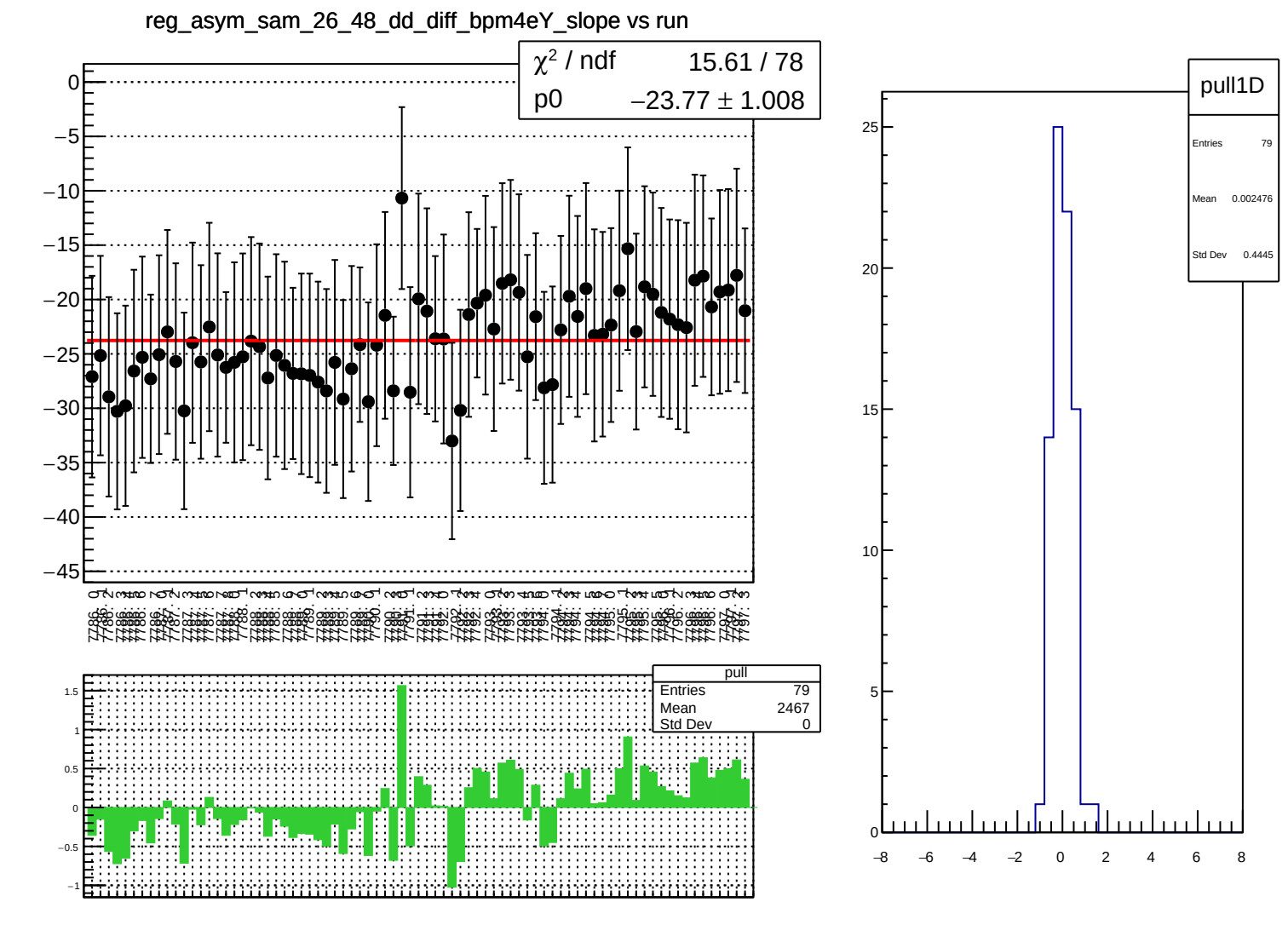

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.5286 / 78
p0 23.88 ± 4.916
pull
Entries 79
Mean −392.9
Std Dev 0
pull1D
Entries 79
Mean −0.00143
Std Dev 0.08179

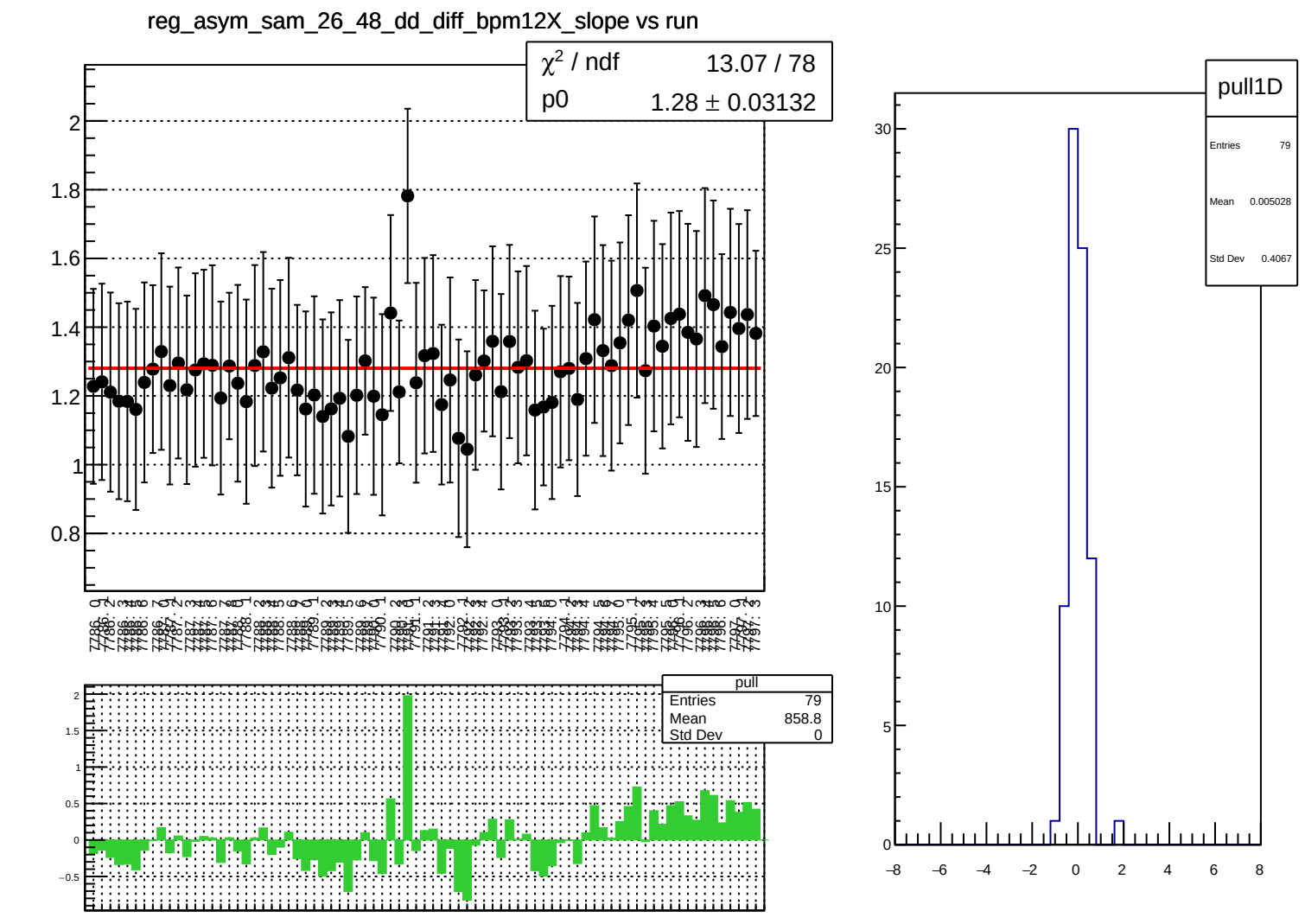

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6394 / 78
p0 −0.4305 ± 0.1528
pull
Entries 79
Mean 146.3
Std Dev 0
pull1D
Entries 79
Mean 0.001065
Std Dev 0.08996

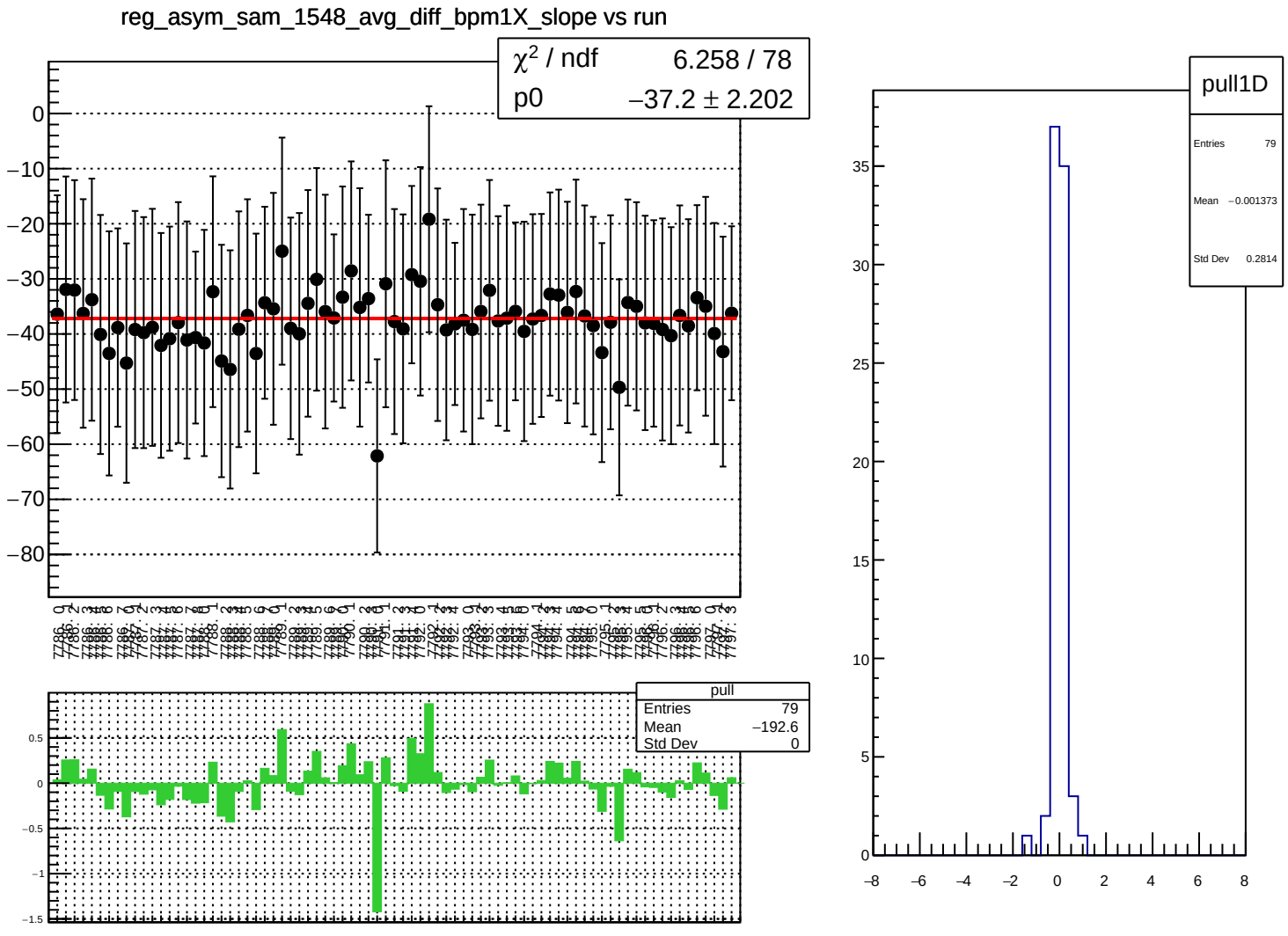

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 10.59 / 78
p0 5.133 ± 0.876
pull
Entries 79
Mean 320.5
Std Dev 0
pull1D
Entries 79
Mean −0.004795
Std Dev 0.3661

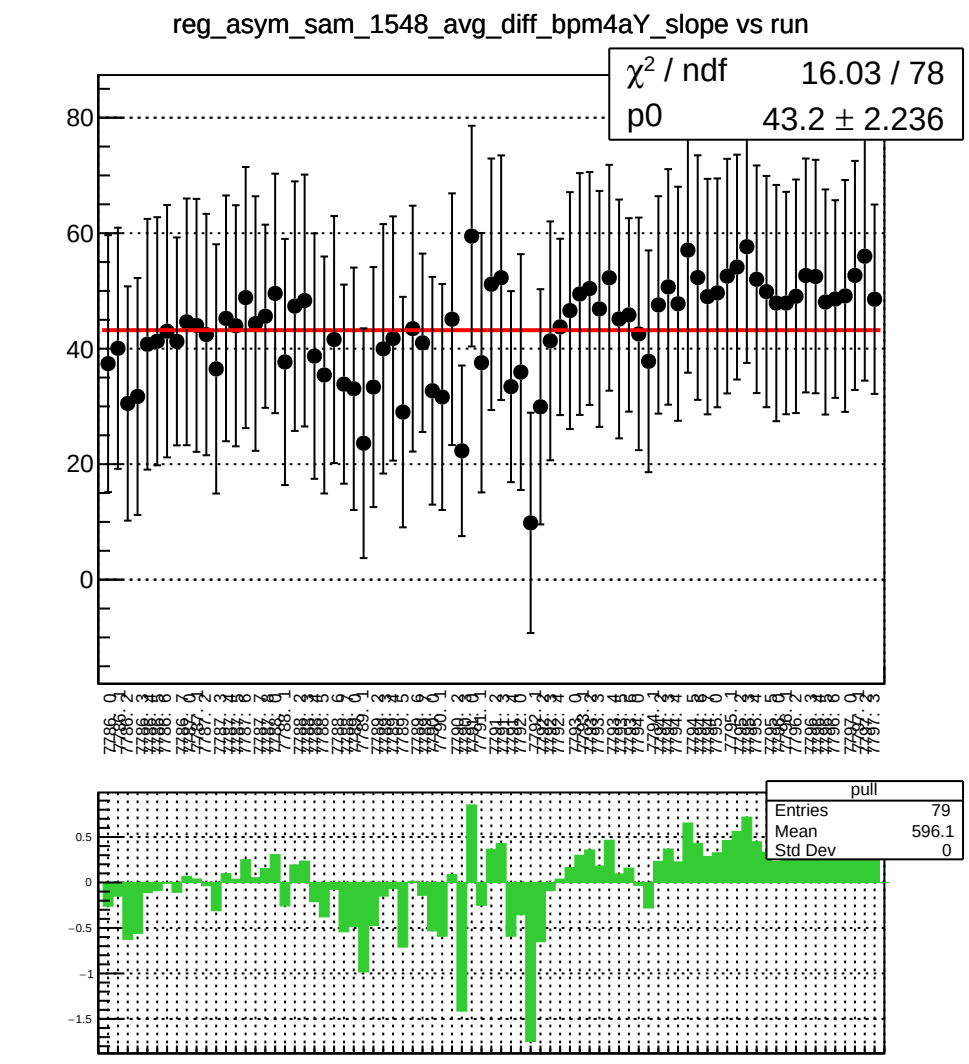

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.71 / 78
p0 −45.57 ± 0.8893
pull
Entries 79
Mean 1126
Std Dev 0
pull1D
Entries 79
Mean −0.005668
Std Dev 0.4315

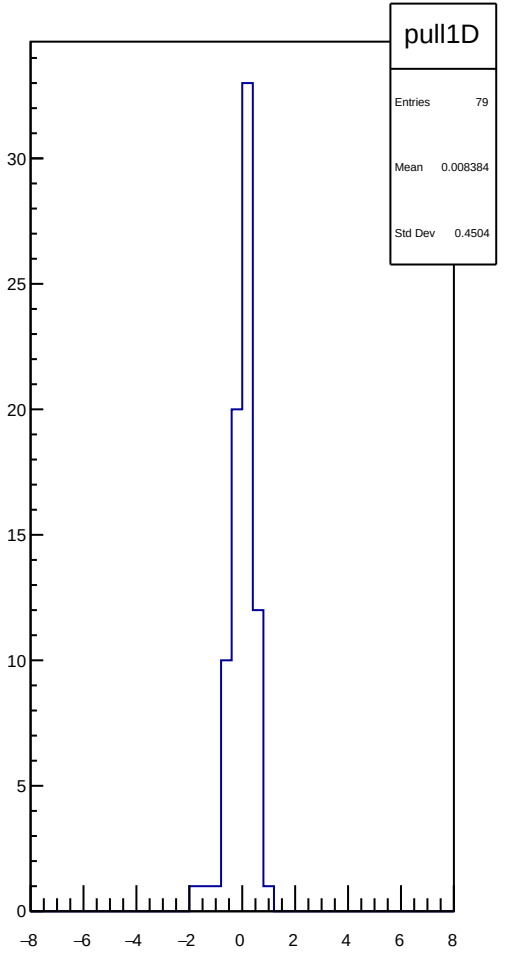

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.07 / 78
p0 15.66 ± 0.7619
pull
Entries 79
Mean 764.2
Std Dev 0
pull1D
Entries 79
Mean 0.004144
Std Dev 0.4067

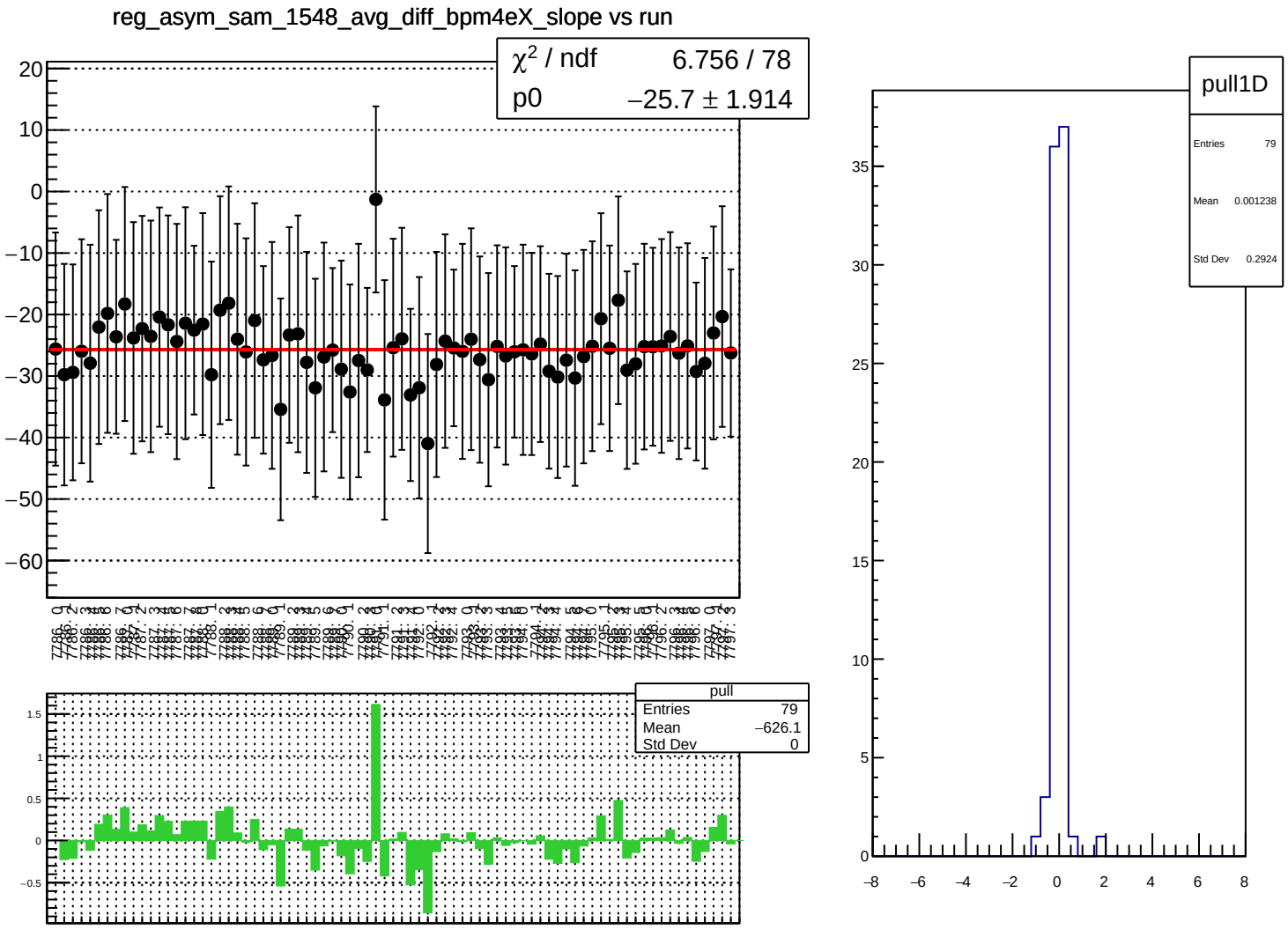

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.61 / 78
p0 −23.77 ± 1.008
pull
Entries 79
Mean 2467
Std Dev 0
pull1D
Entries 79
Mean 0.002476
Std Dev 0.4445

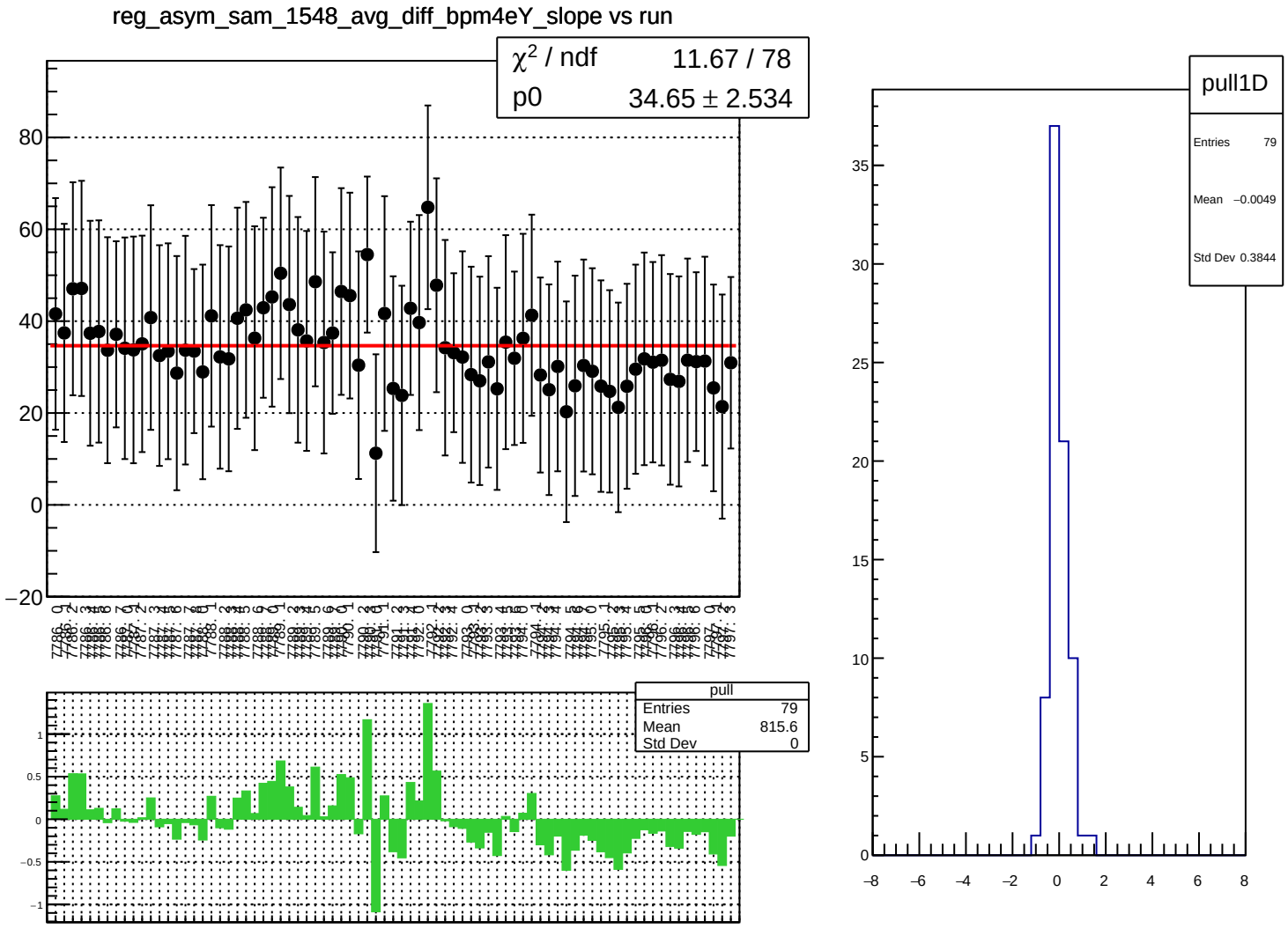

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 13.07 / 78
p0 1.28 ± 0.03132
pull
Entries 79
Mean 858.8
Std Dev 0
pull1D
Entries 79
Mean 0.005028
Std Dev 0.4067

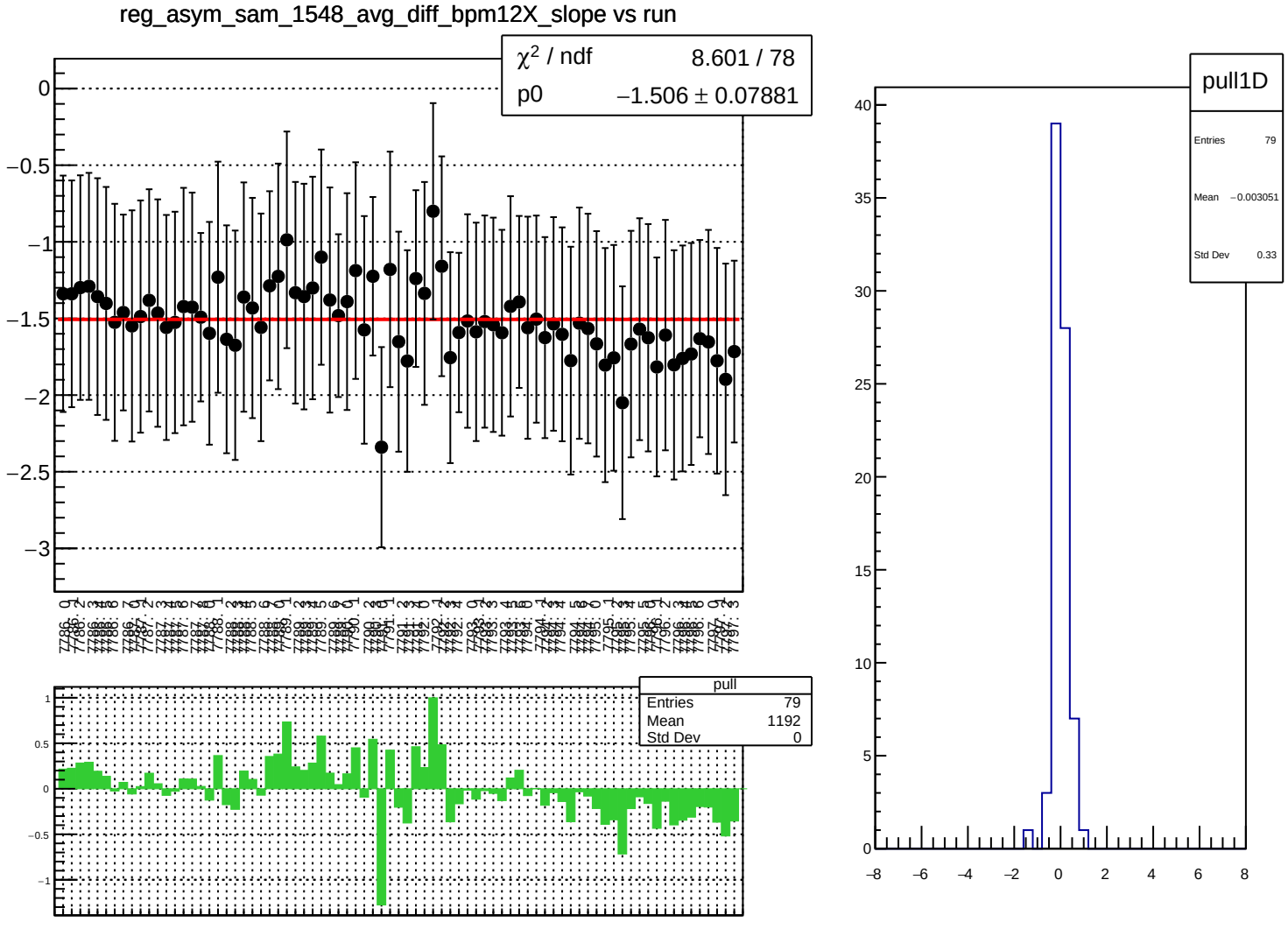

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 6.258 / 78
p0 −37.2 ± 2.202
pull
Entries 79
Mean −192.6
Std Dev 0
pull1D
Entries 79
Mean −0.001373
Std Dev 0.2814

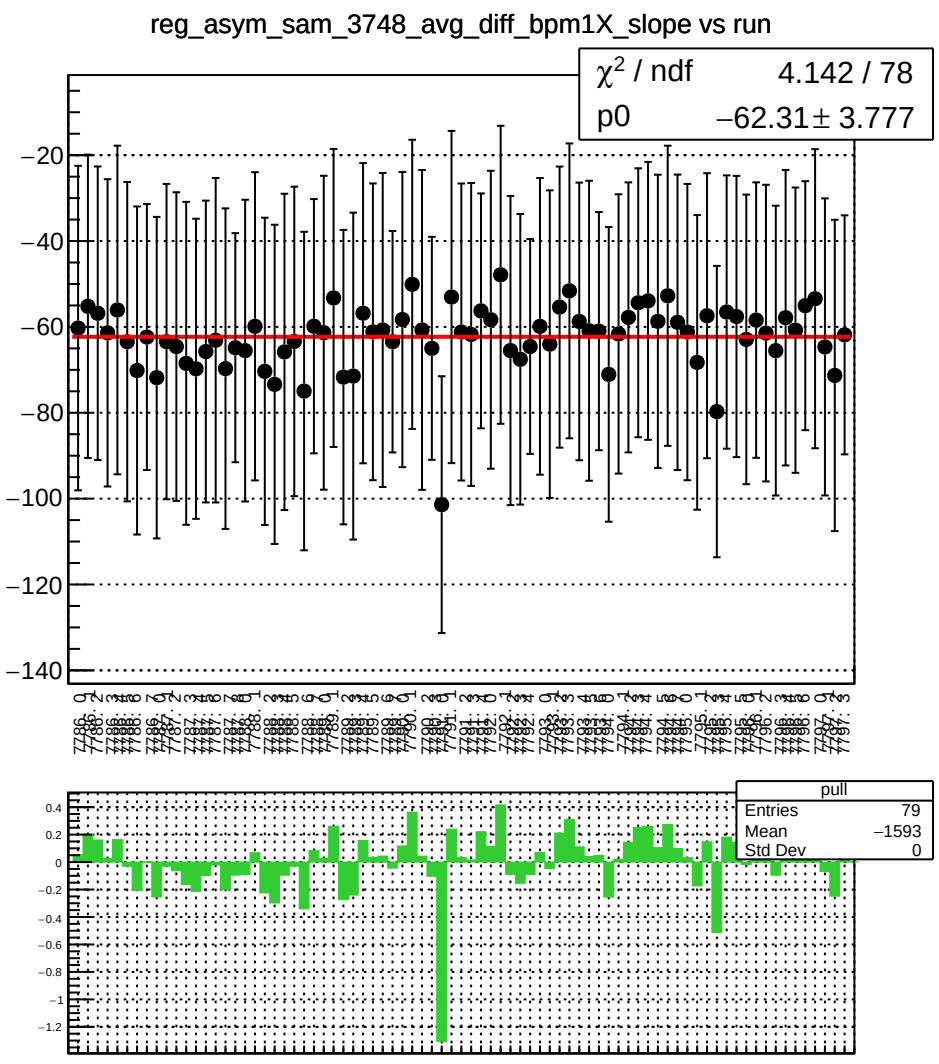

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.03 / 78
p0 43.2 ± 2.236
pull
Entries 79
Mean 596.1
Std Dev 0

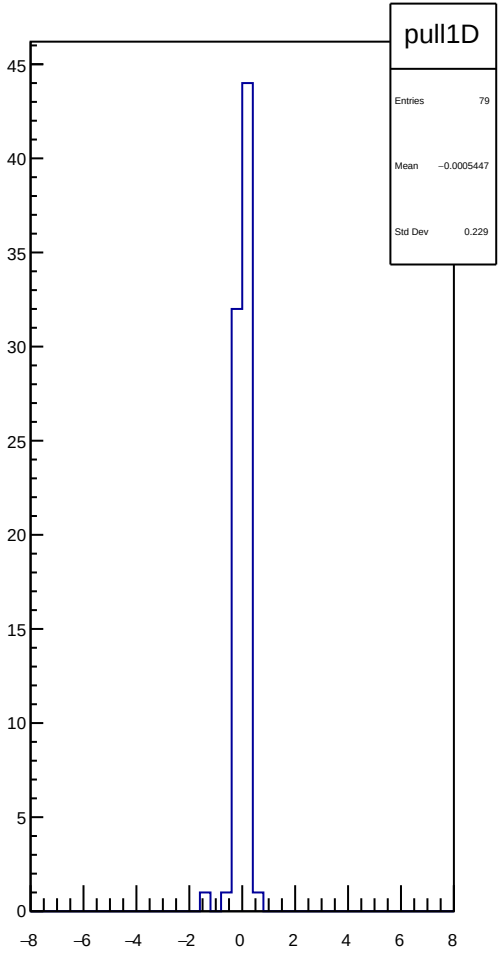

pull1D
Entries 79
Mean 0.008384
Std Dev 0.4504

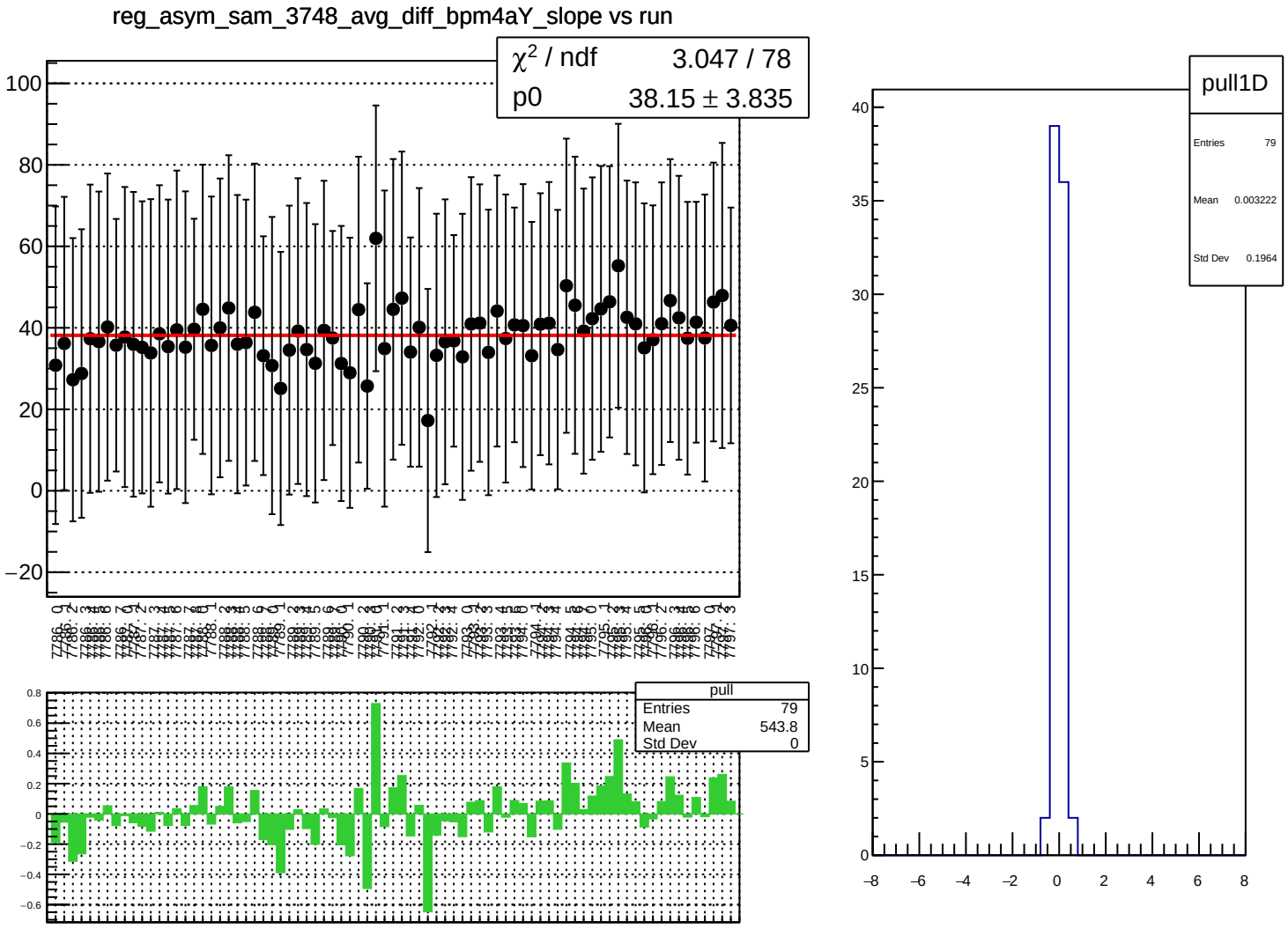

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.756 / 78
p0 −25.7 ± 1.914
pull
Entries 79
Mean −626.1
Std Dev 0
pull1D
Entries 79
Mean 0.001238
Std Dev 0.2924

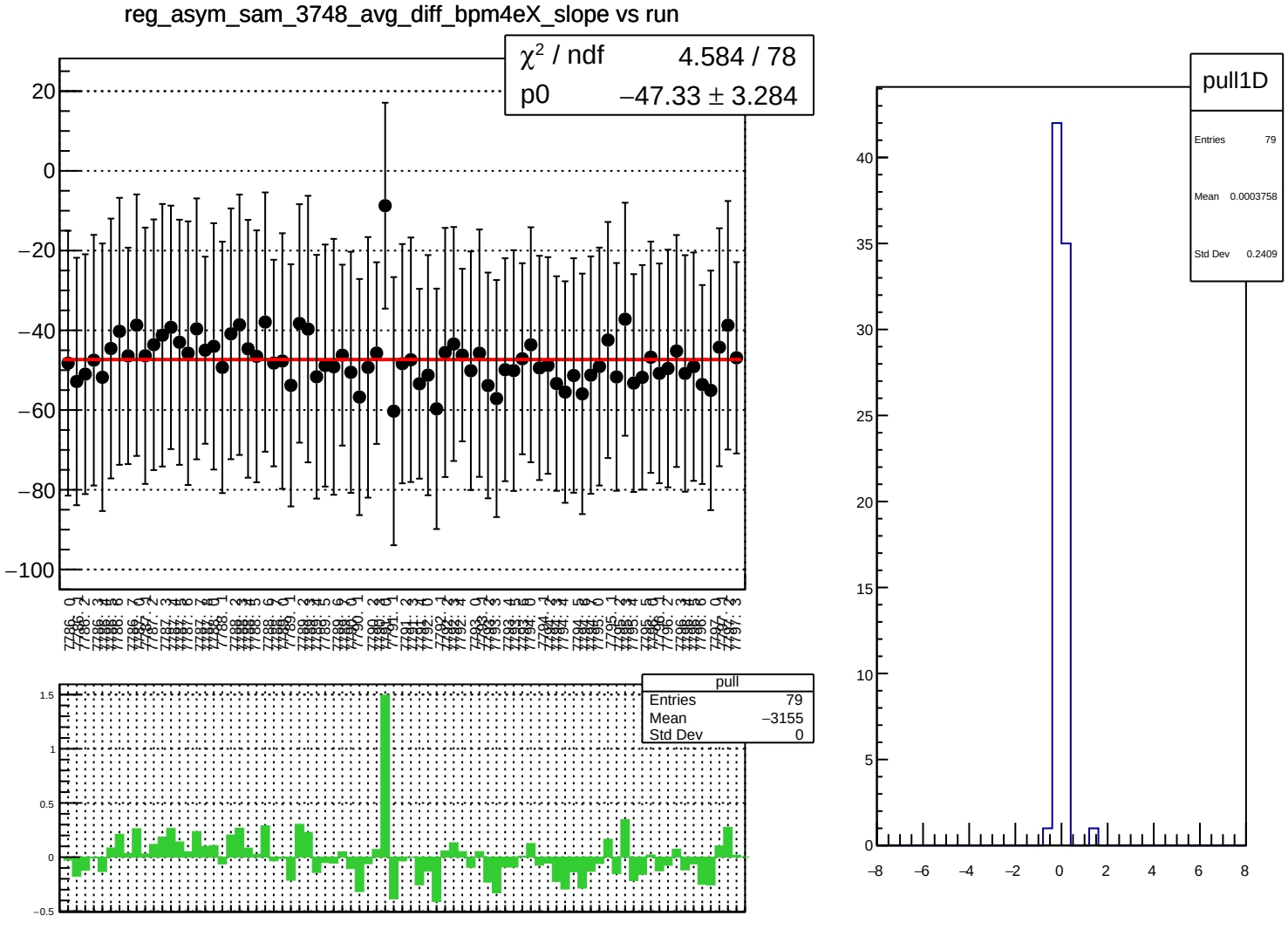

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.67 / 78
p0 34.65 ± 2.534
pull
Entries 79
Mean 815.6
Std Dev 0
pull1D
Entries 79
Mean −0.0049
Std Dev 0.3844

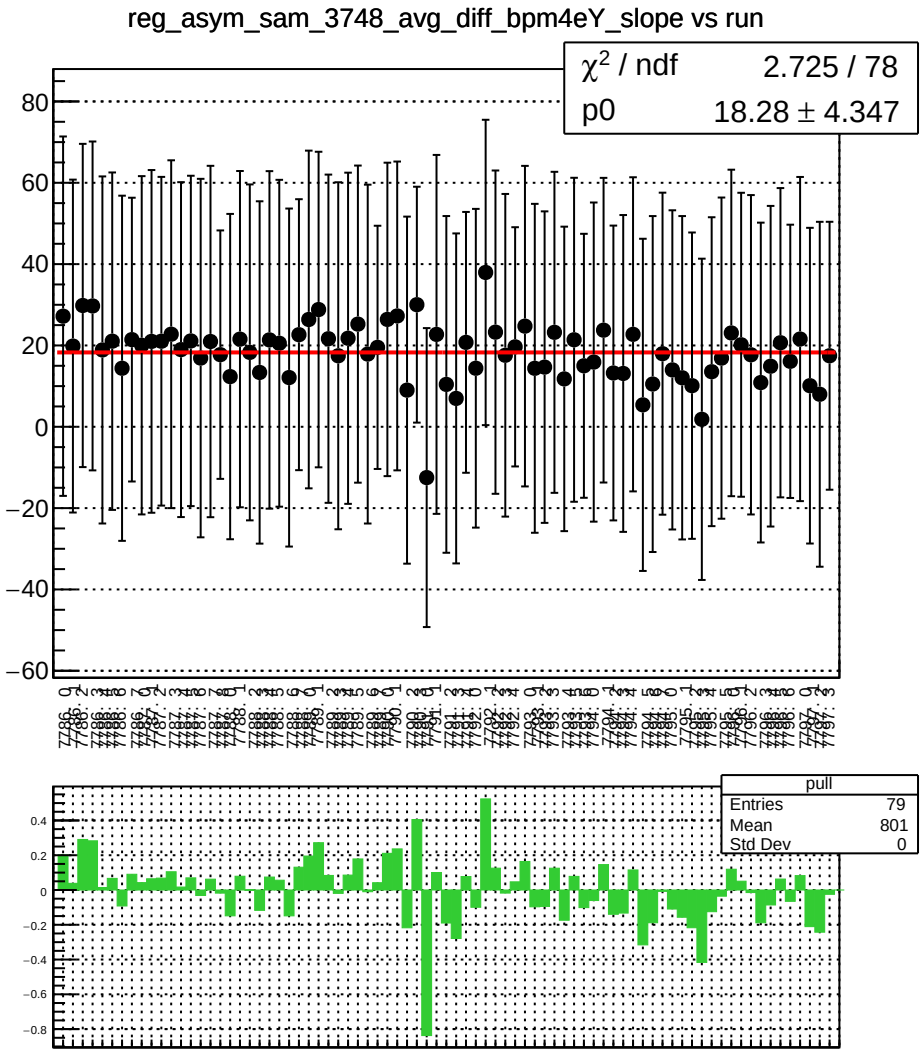

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 8.601 / 78
p0 −1.506 ± 0.07881
pull
Entries 79
Mean 1192
Std Dev 0
pull1D
Entries 79
Mean −0.003051
Std Dev 0.33

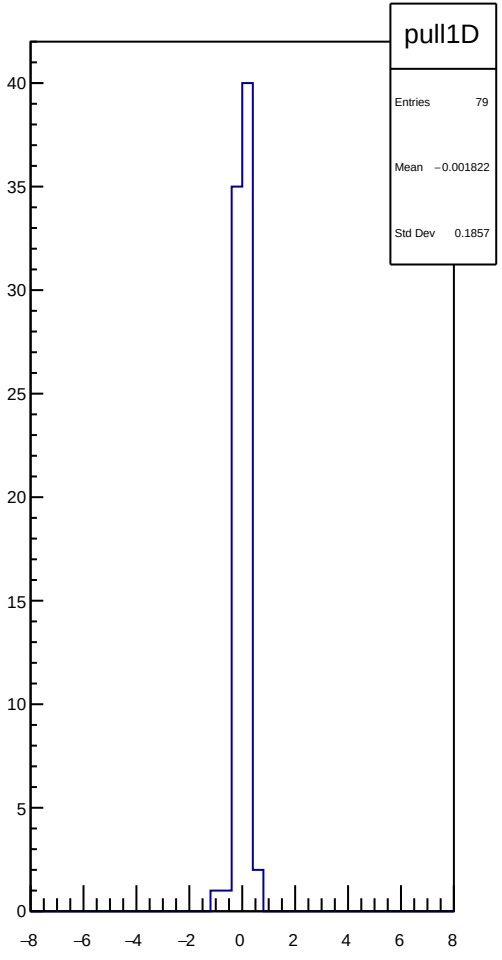

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 4.142 / 78
p0 −62.31 ± 3.777
pull
Entries 79
Mean −1593
Std Dev 0

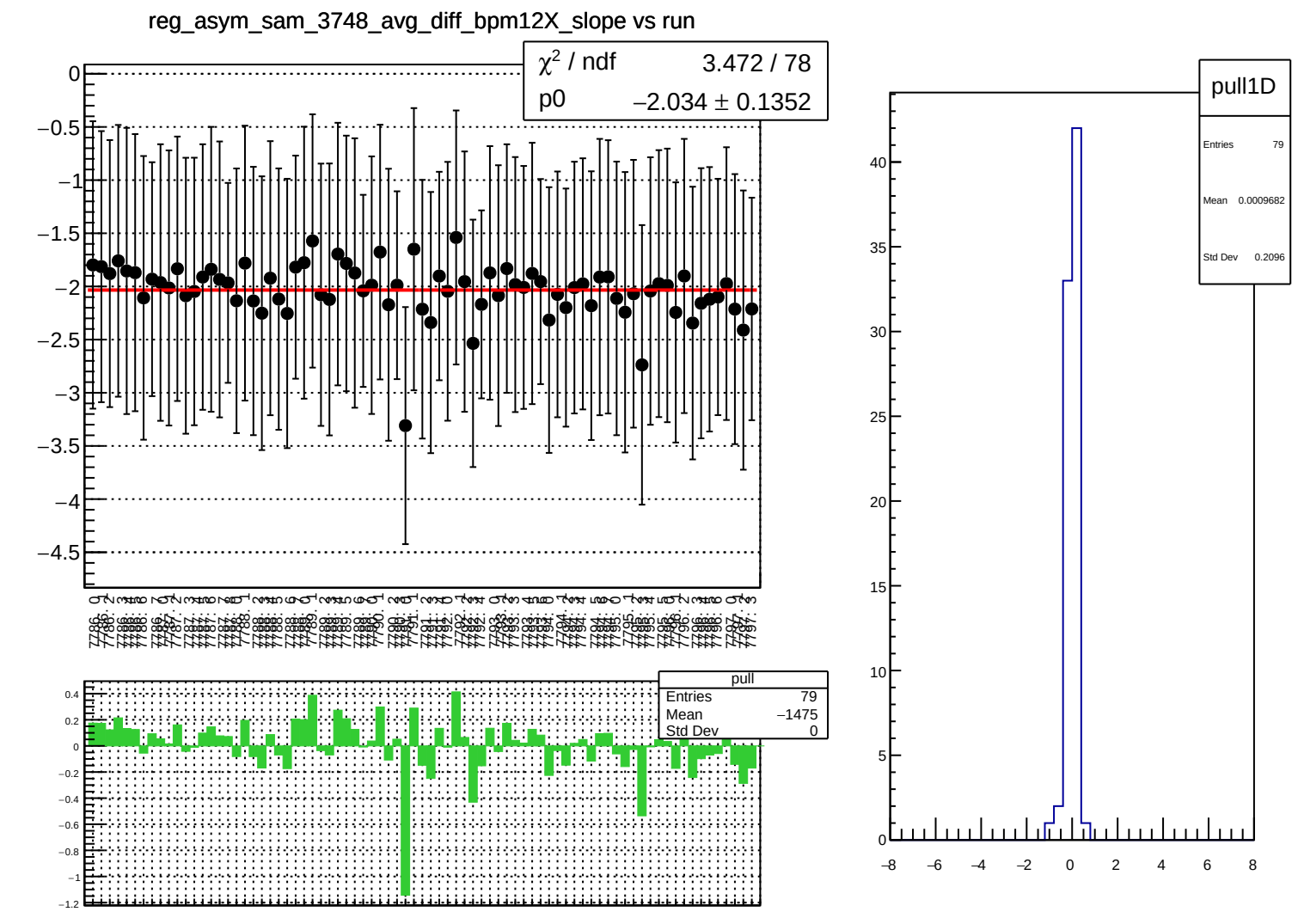

pull1D
Entries 79
Mean −0.0005447
Std Dev 0.229

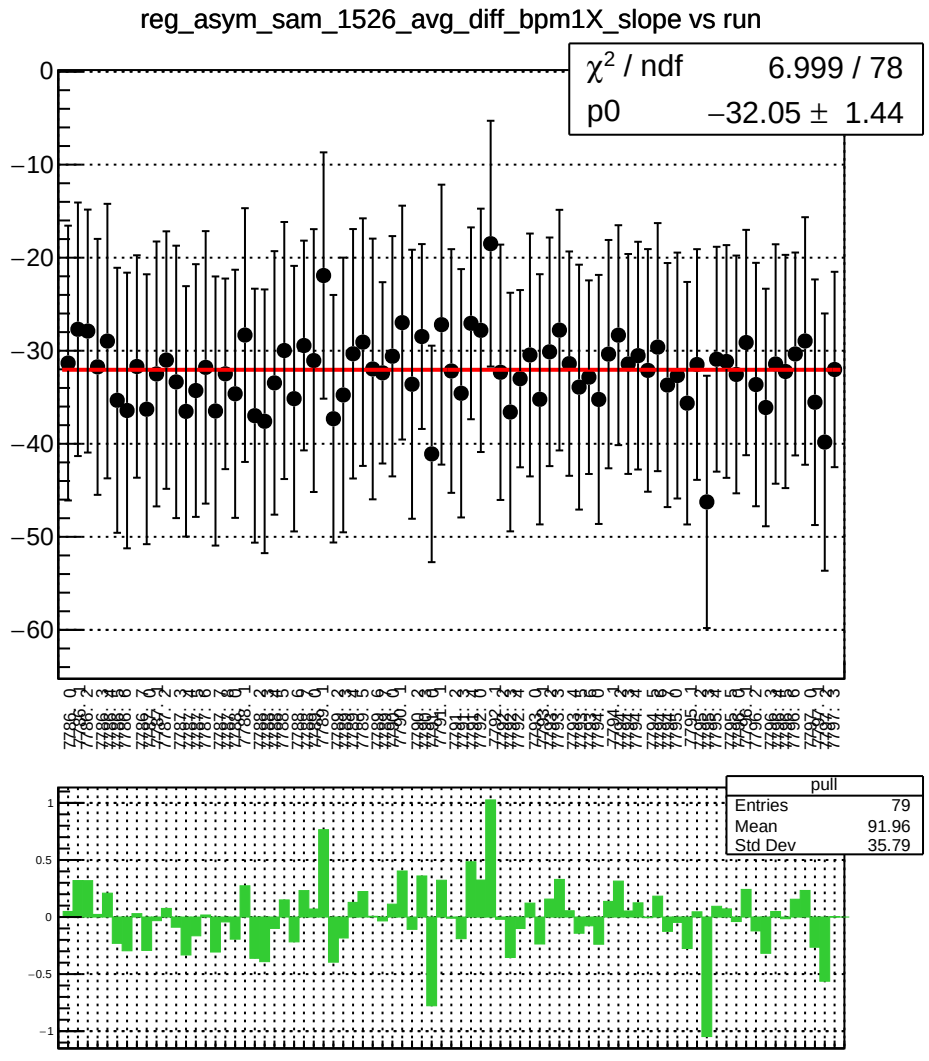

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.047 / 78
p0 38.15 ± 3.835
pull
Entries 79
Mean 543.8
Std Dev 0
pull1D
Entries 79
Mean 0.003222
Std Dev 0.1964

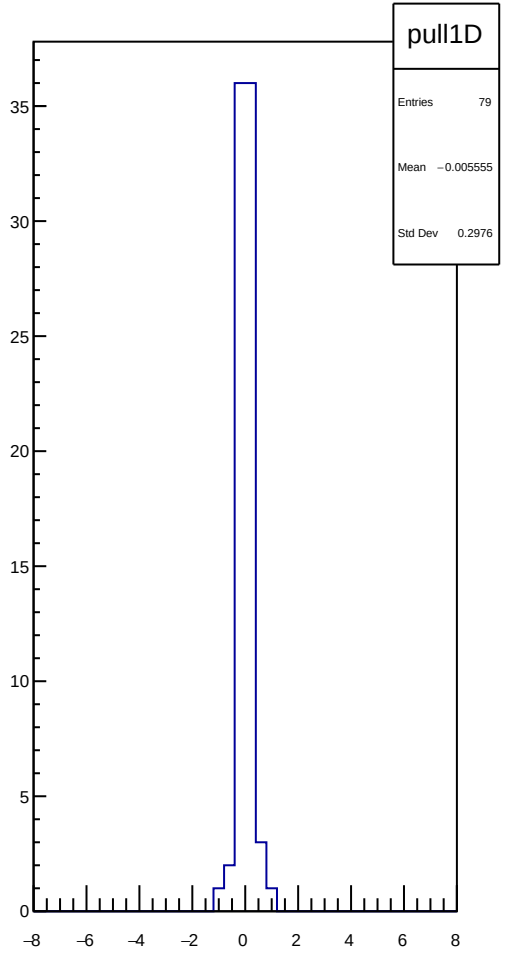

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.584 / 78
p0 −47.33 ± 3.284
pull
Entries 79
Mean −3155
Std Dev 0
pull1D
Entries 79
Mean 0.0003758
Std Dev 0.2409

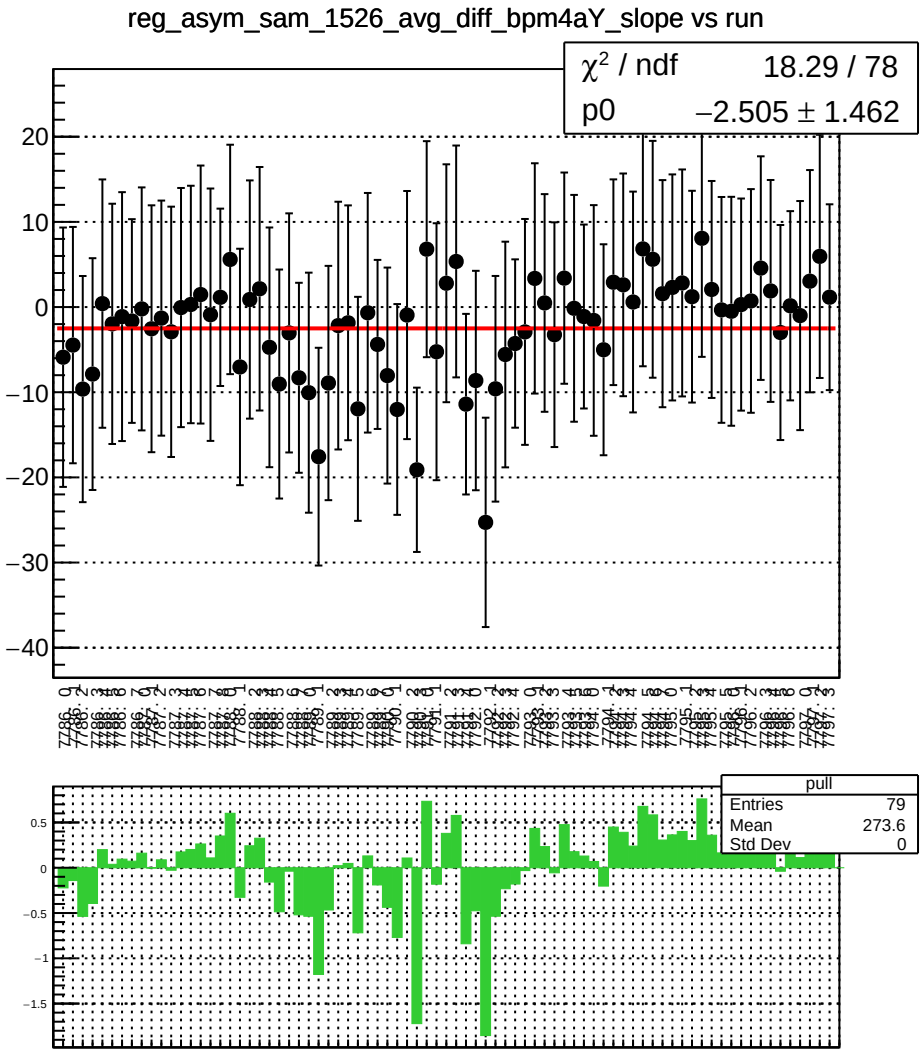

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.725 / 78
p0 18.28 ± 4.347
pull
Entries 79
Mean 801
Std Dev 0

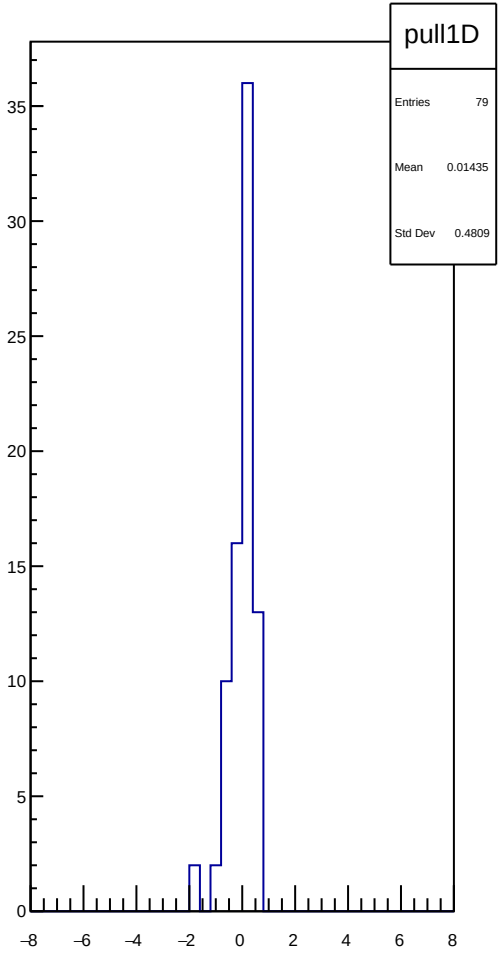

pull1D
Entries 79
Mean −0.001822
Std Dev 0.1857

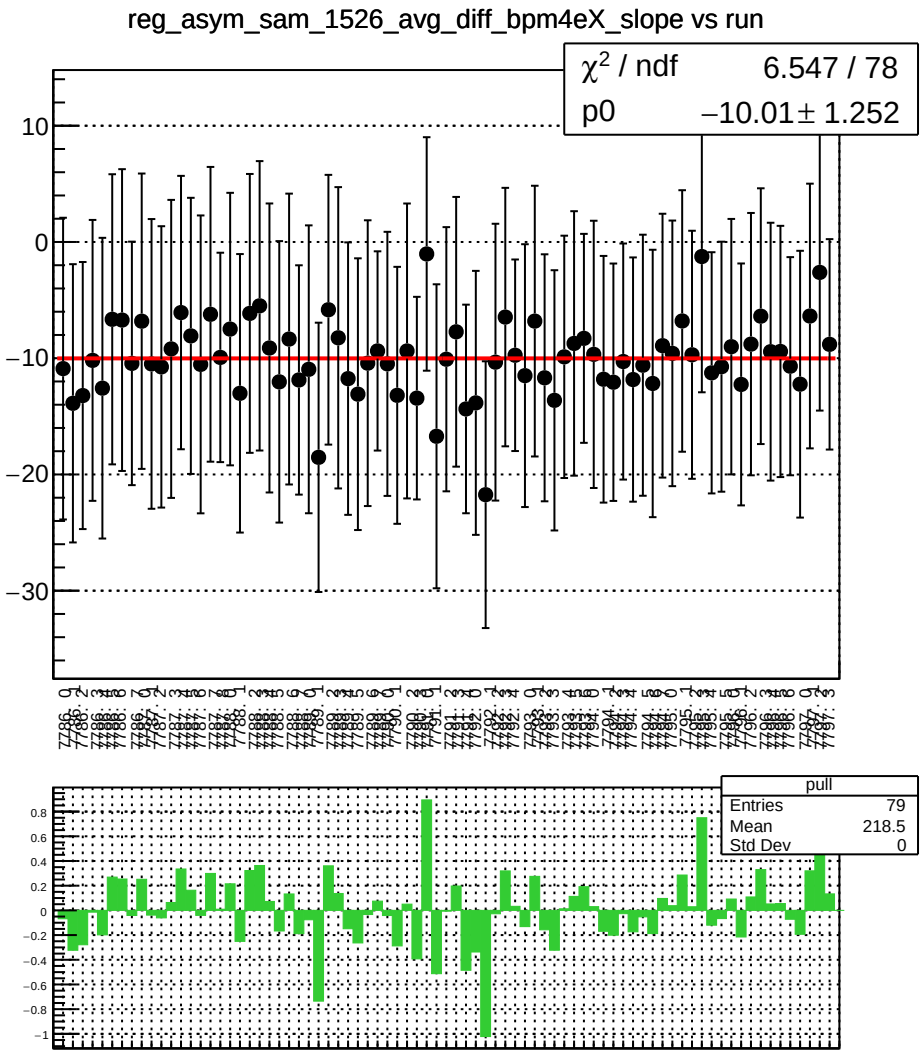

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 3.472 / 78
p0 −2.034 ± 0.1352
pull
Entries 79
Mean −1475
Std Dev 0
pull1D
Entries 79
Mean 0.0009682
Std Dev 0.2096

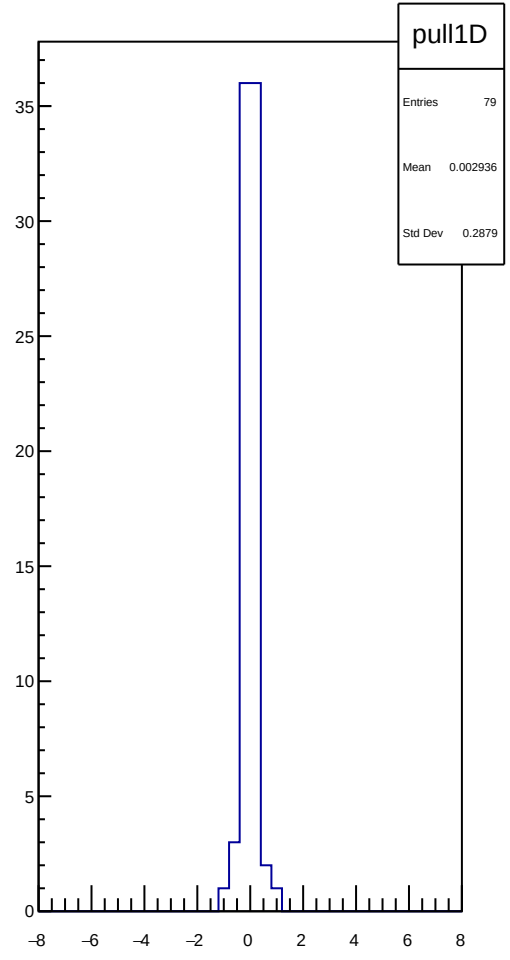

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 6.999 / 78
p0 −32.05 ± 1.44
pull
Entries 79
Mean 91.96
Std Dev 35.79

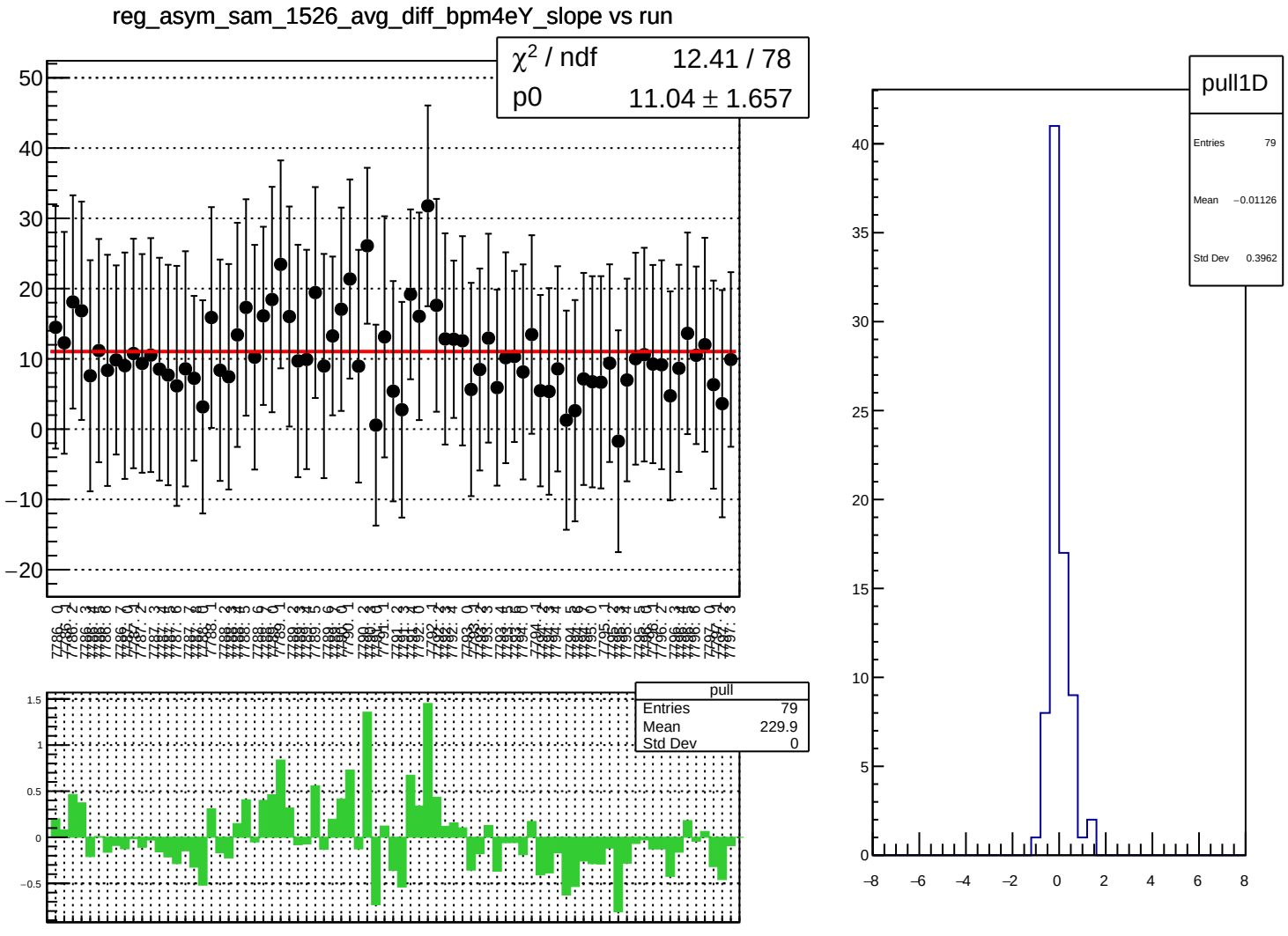

pull1D
Entries 79
Mean −0.005555
Std Dev 0.2976

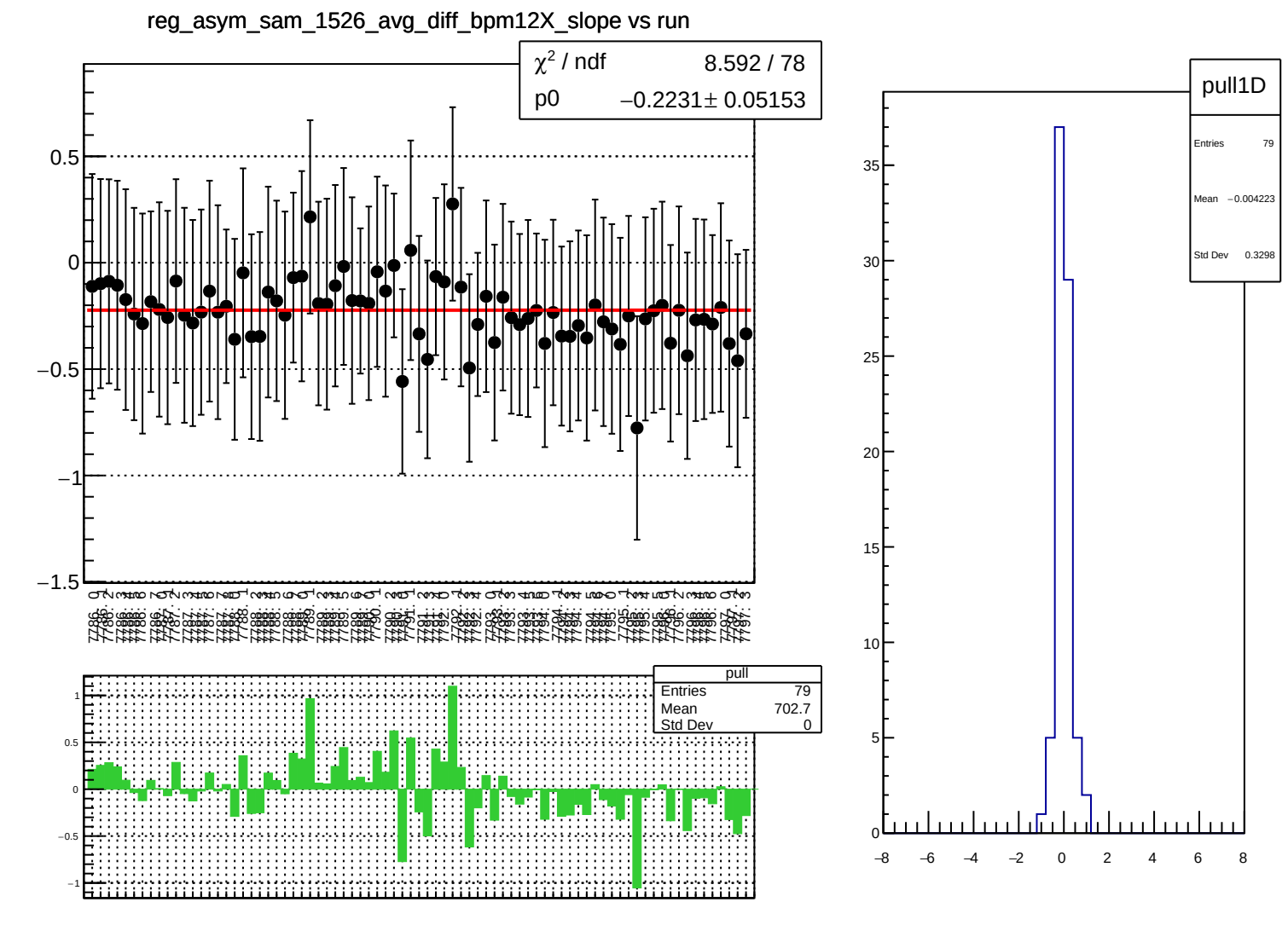

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.29 / 78
p0 −2.505 ± 1.462
pull
Entries 79
Mean 273.6
Std Dev 0

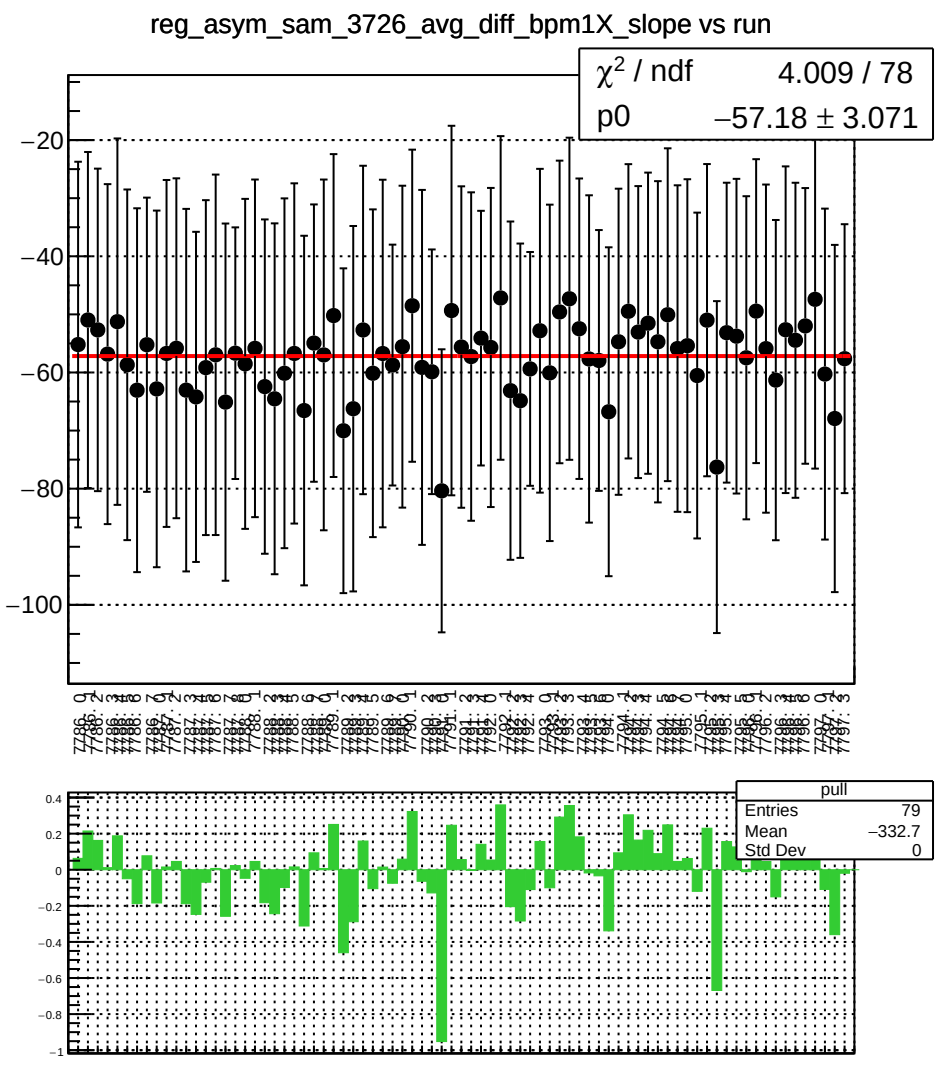

pull1D
Entries 79
Mean 0.01435
Std Dev 0.4809

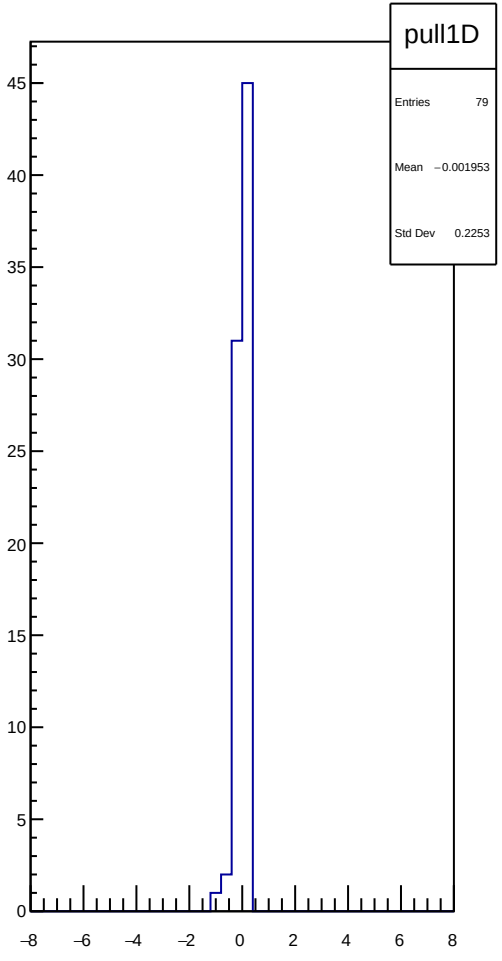

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.547 / 78
p0 −10.01± 1.252
pull
Entries 79
Mean 218.5
Std Dev 0

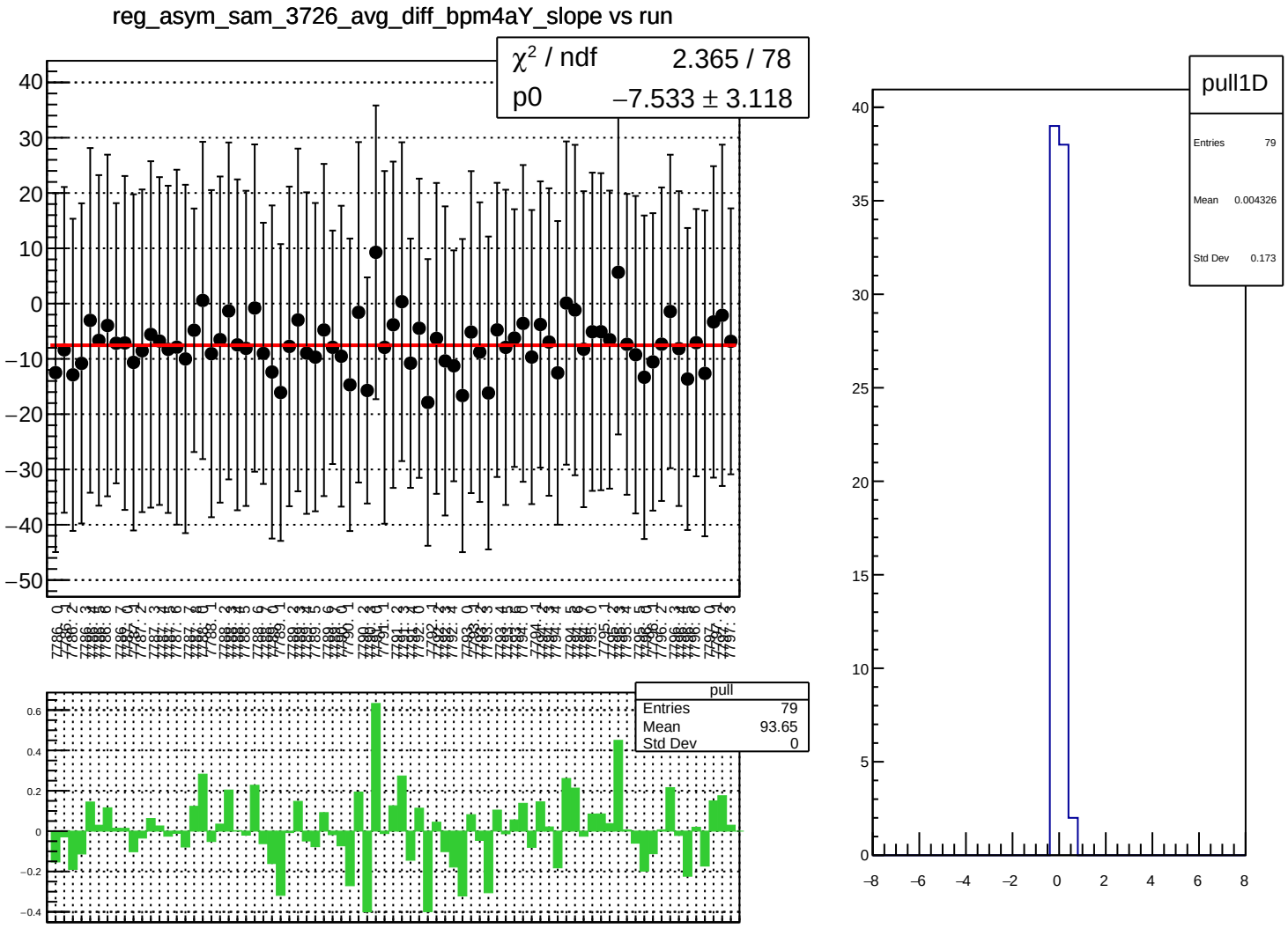

pull1D
Entries 79
Mean 0.002936
Std Dev 0.2879

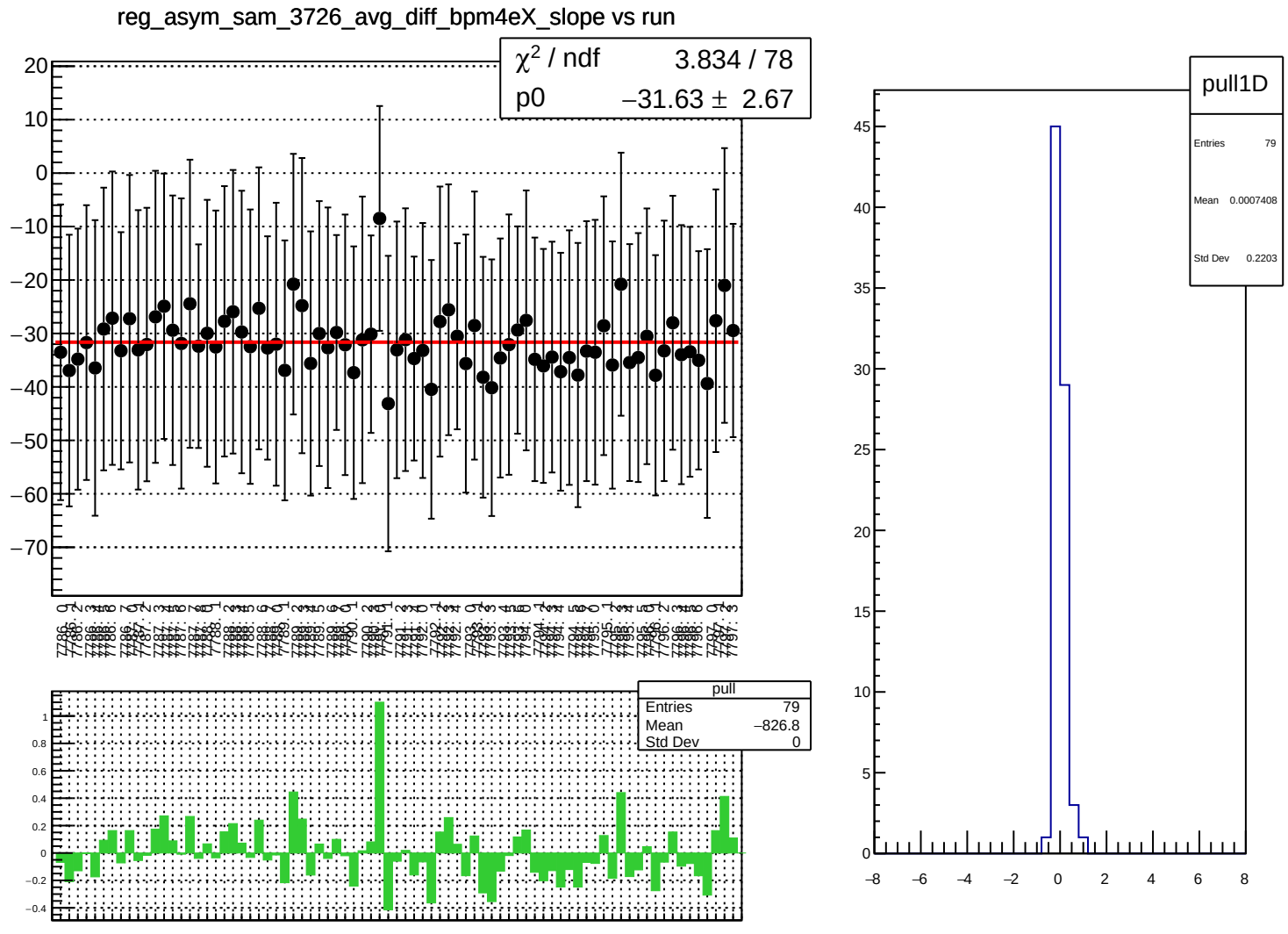

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.41 / 78
p0 11.04 ± 1.657
pull
Entries 79
Mean 229.9
Std Dev 0
pull1D
Entries 79
Mean −0.01126
Std Dev 0.3962

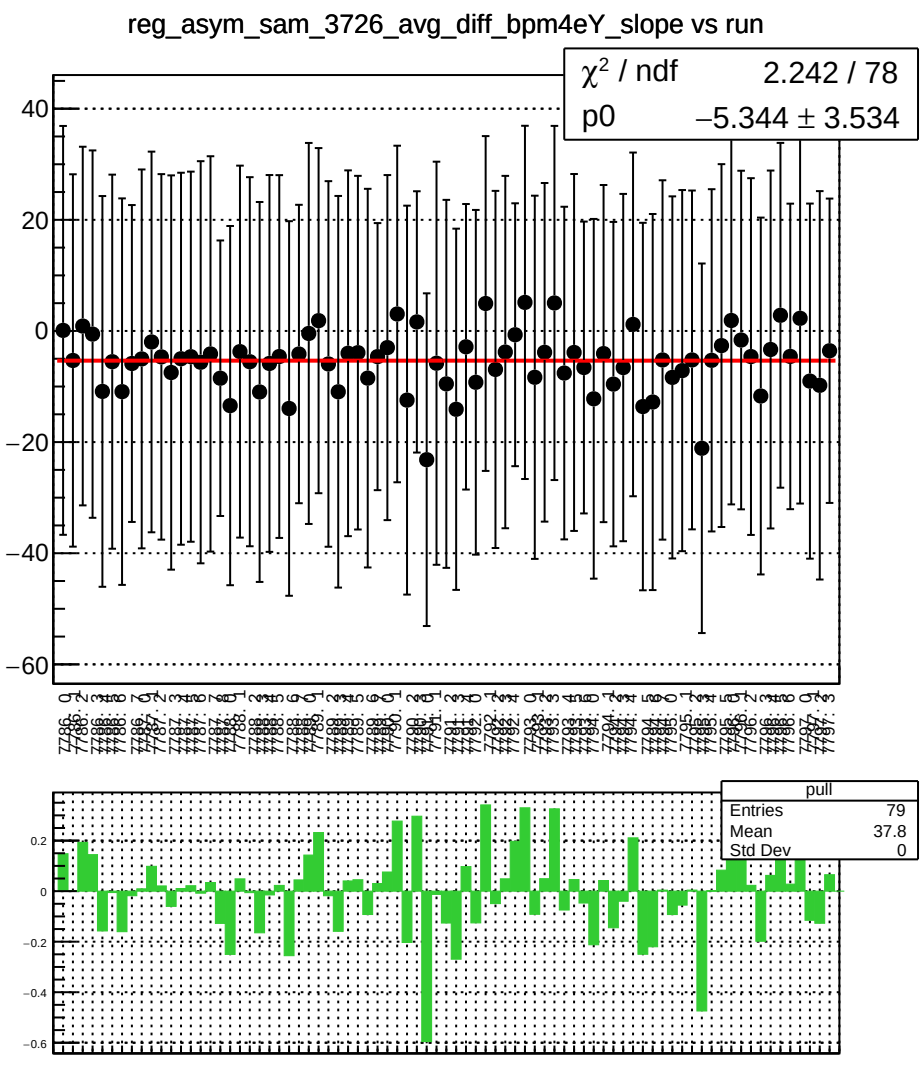

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 8.592 / 78
p0 −0.2231± 0.05153
pull
Entries 79
Mean 702.7
Std Dev 0
pull1D
Entries 79
Mean −0.004223
Std Dev 0.3298

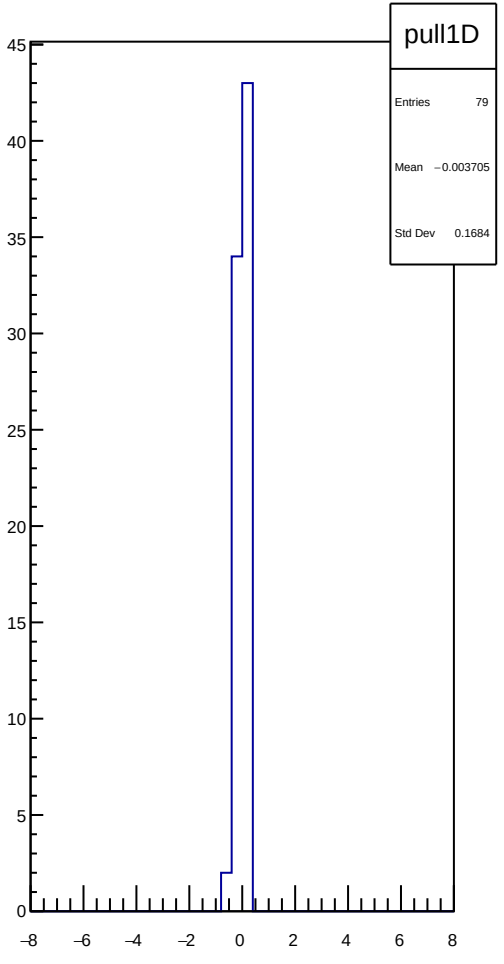

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 4.009 / 78
p0 −57.18 ± 3.071
pull
Entries 79
Mean −332.7
Std Dev 0

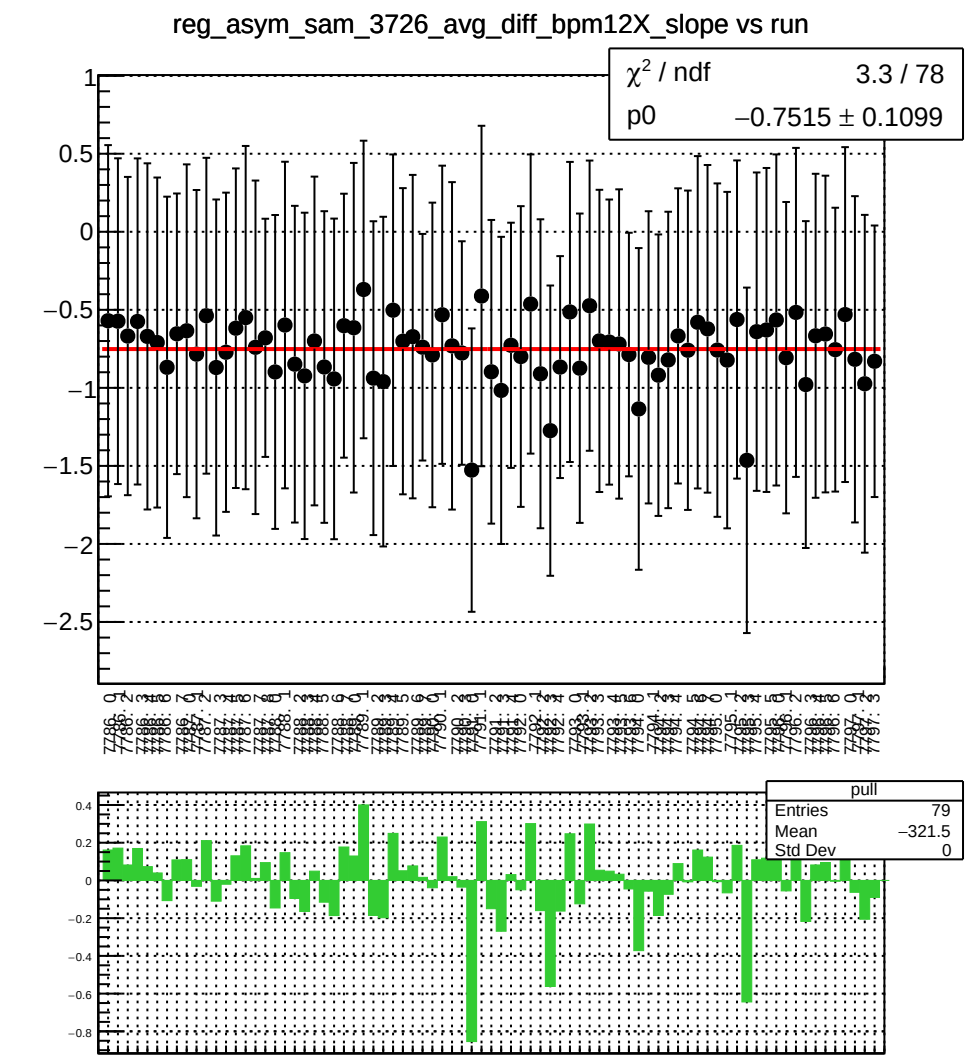

pull1D
Entries 79
Mean −0.001953
Std Dev 0.2253

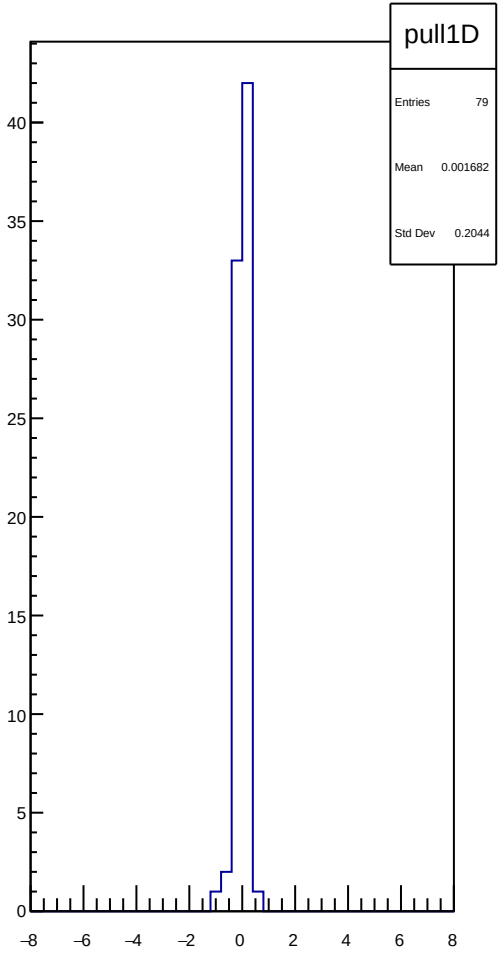

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.365 / 78
p0 −7.533 ± 3.118
pull
Entries 79
Mean 93.65
Std Dev 0
pull1D
Entries 79
Mean 0.004326
Std Dev 0.173

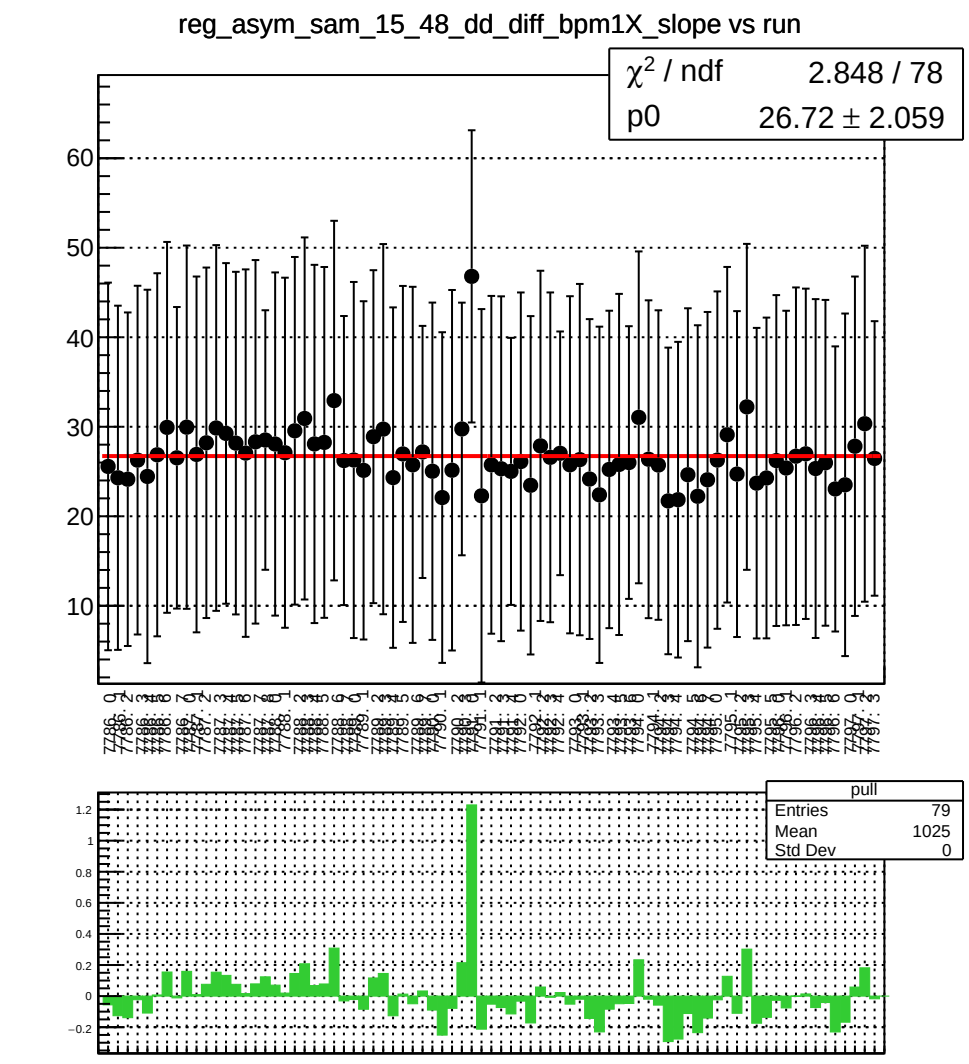

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.834 / 78
p0 −31.63 ± 2.67
pull
Entries 79
Mean −826.8
Std Dev 0
pull1D
Entries 79
Mean 0.0007408
Std Dev 0.2203

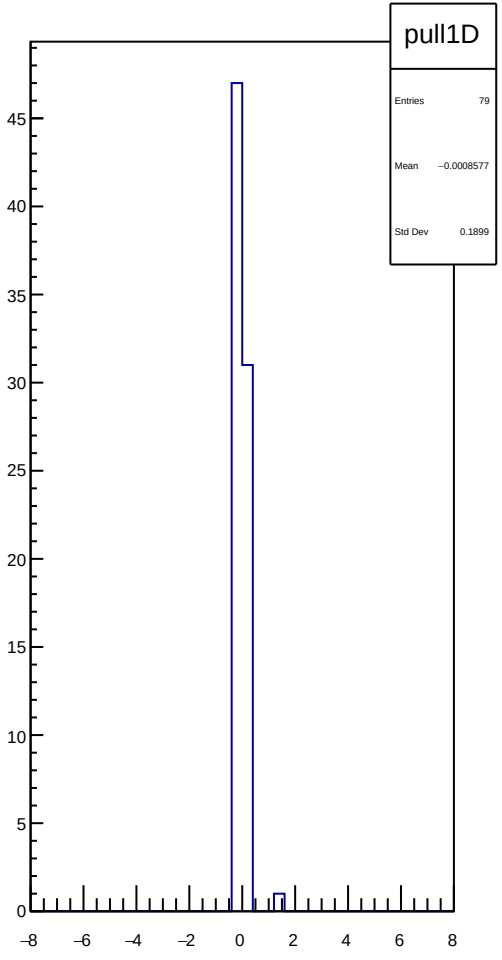

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.242 / 78
p0 −5.344 ± 3.534
pull
Entries 79
Mean 37.8
Std Dev 0

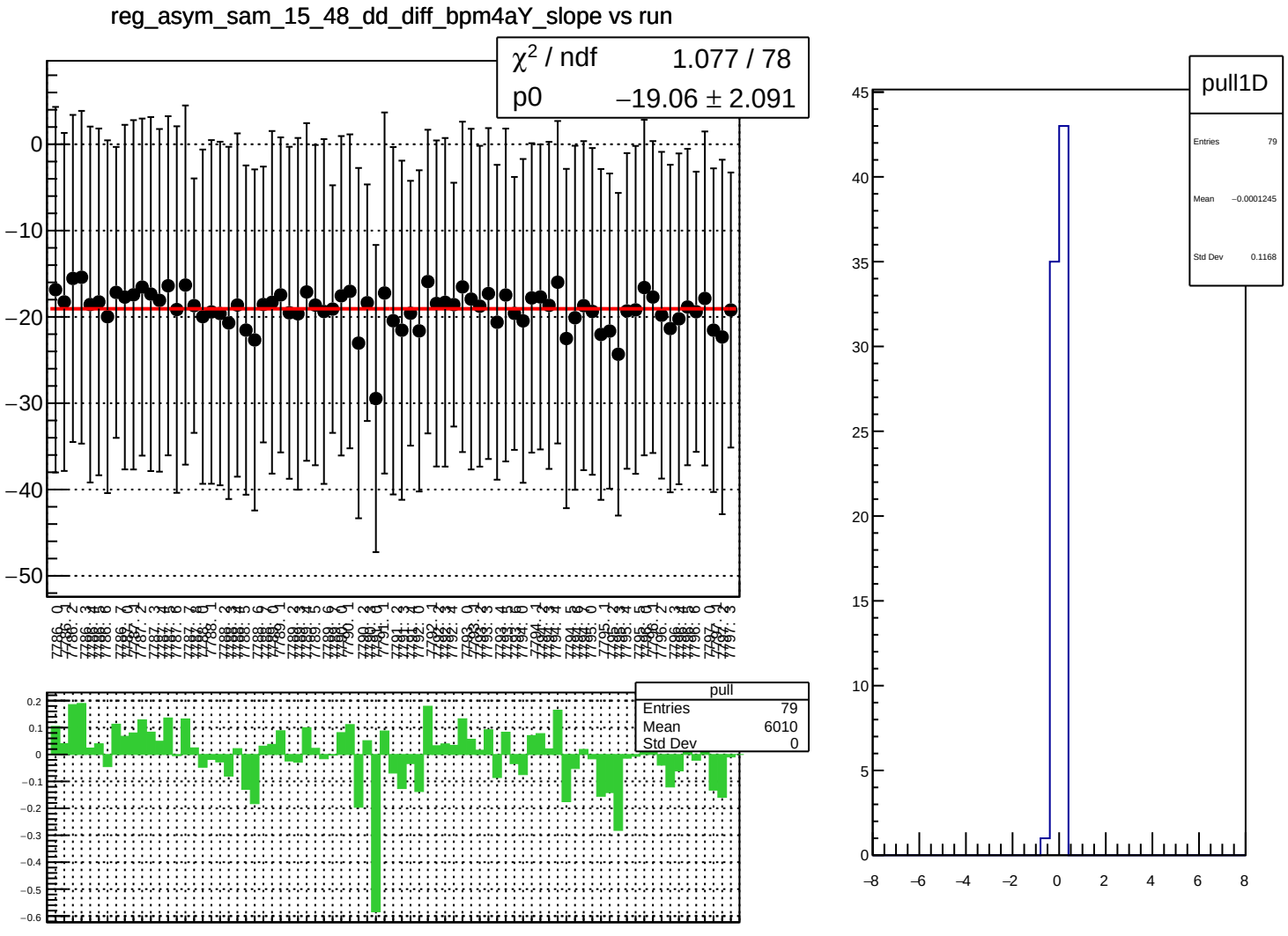

pull1D
Entries 79
Mean −0.003705
Std Dev 0.1684

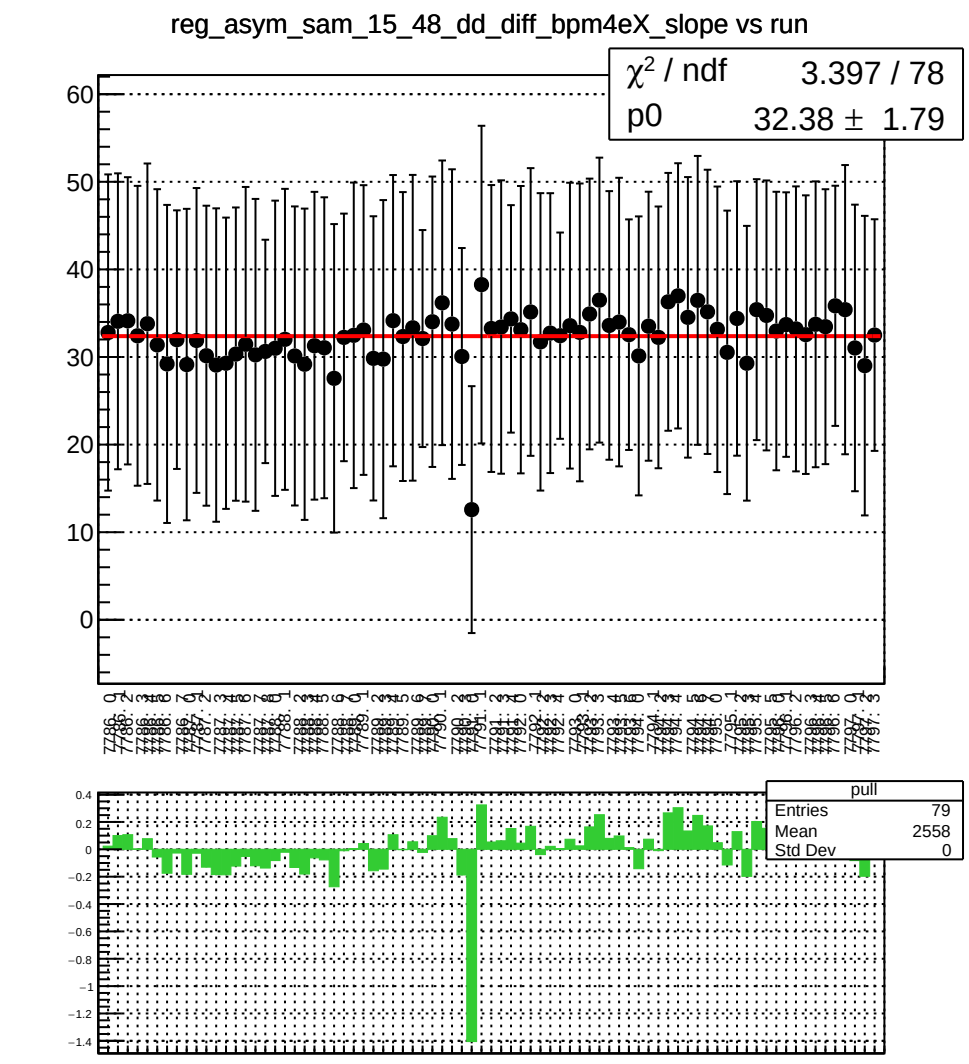

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 3.3 / 78
p0 −0.7515 ± 0.1099
pull
Entries 79
Mean −321.5
Std Dev 0

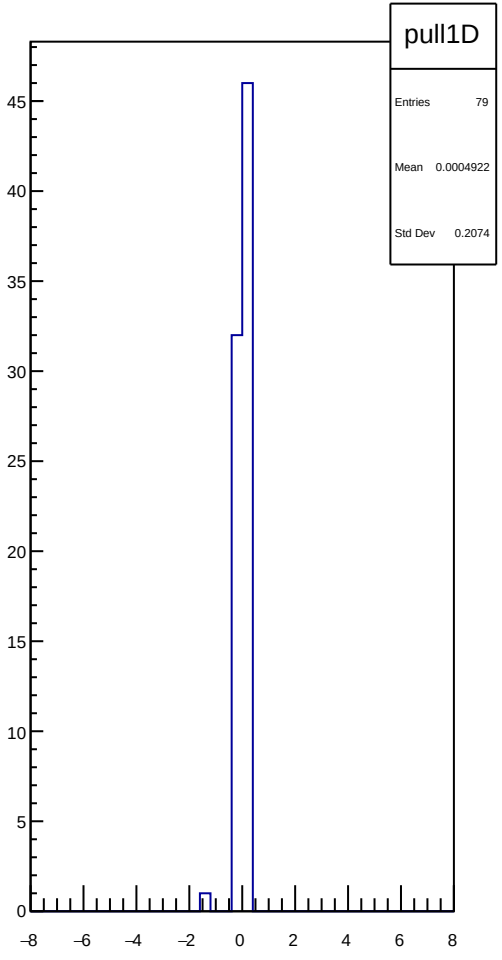

pull1D
Entries 79
Mean 0.001682
Std Dev 0.2044

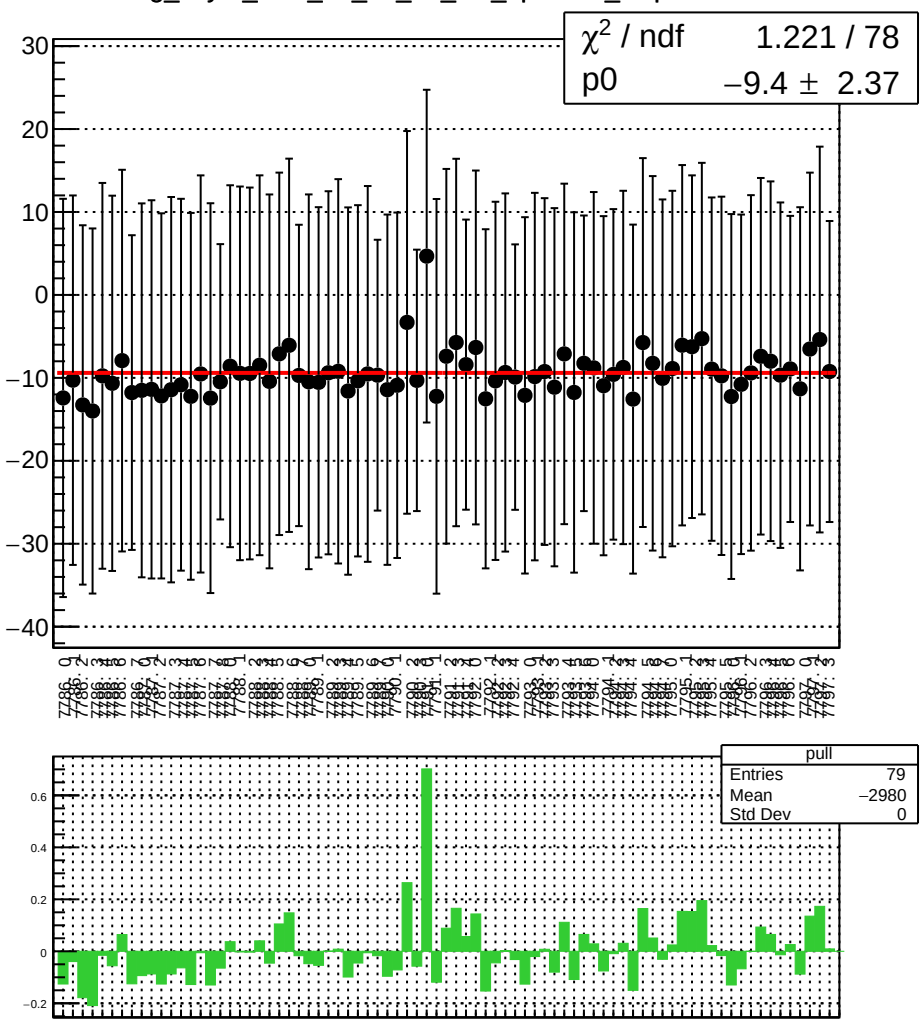

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.848 / 78
p0 26.72 ± 2.059
pull
Entries 79
Mean 1025
Std Dev 0

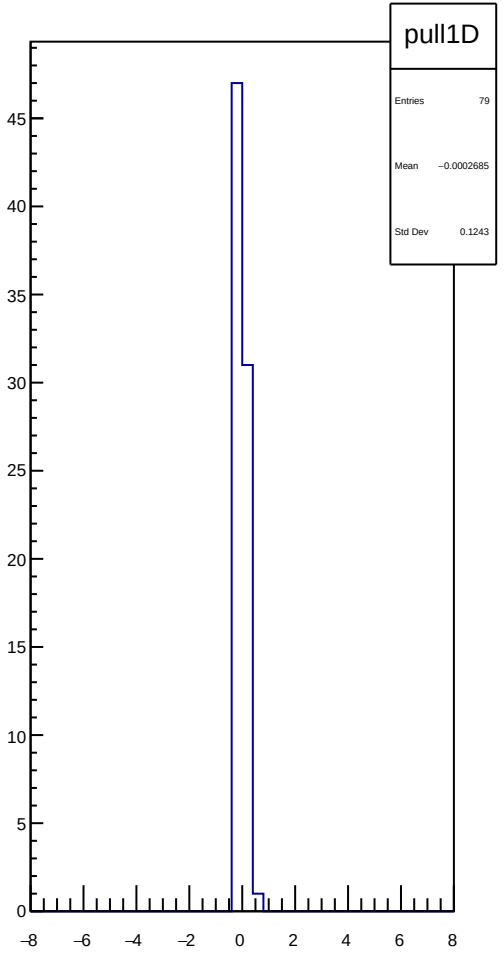

pull1D
Entries 79
Mean −0.0008577
Std Dev 0.1899

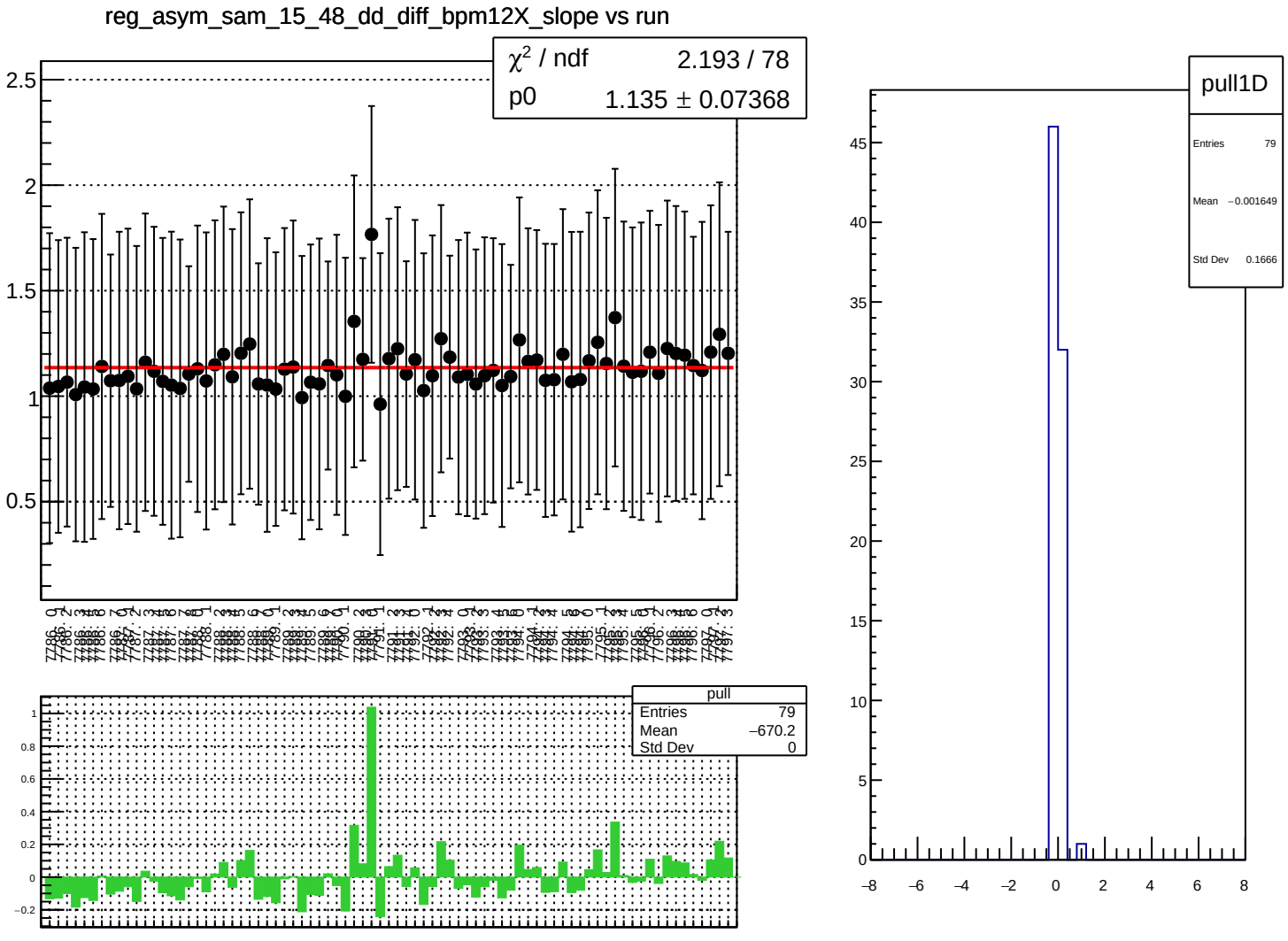

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.077 / 78
p0 −19.06 ± 2.091
pull
Entries 79
Mean 6010
Std Dev 0
pull1D
Entries 79
Mean −0.0001245
Std Dev 0.1168

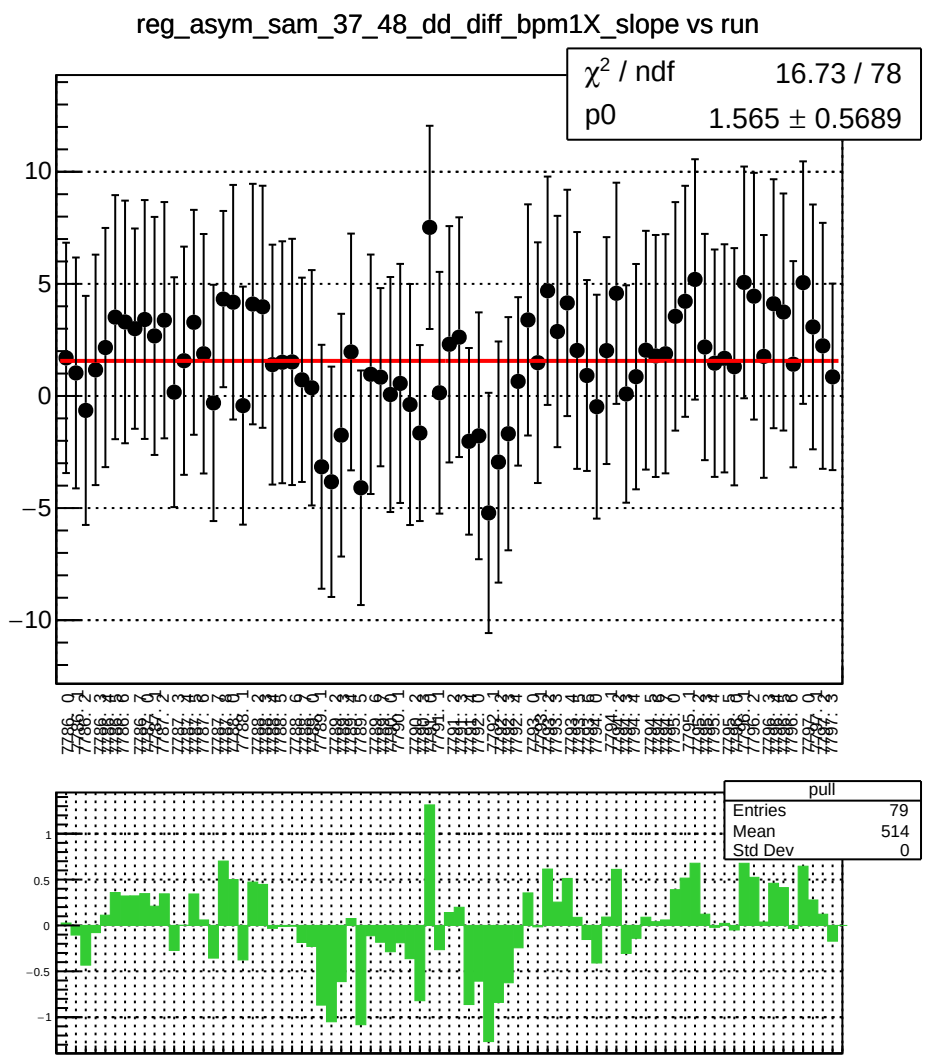

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.397 / 78
p0 32.38 ± 1.79
pull
Entries 79
Mean 2558
Std Dev 0

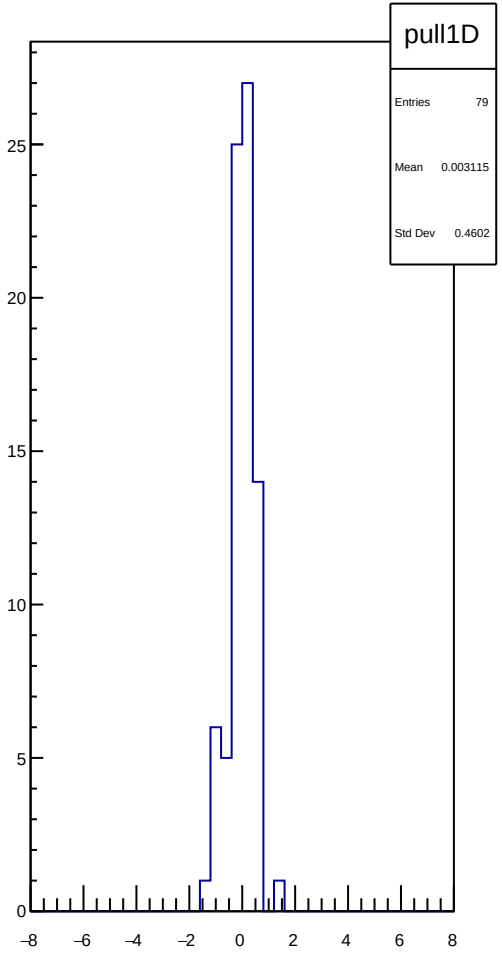

pull1D
Entries 79
Mean 0.0004922
Std Dev 0.2074

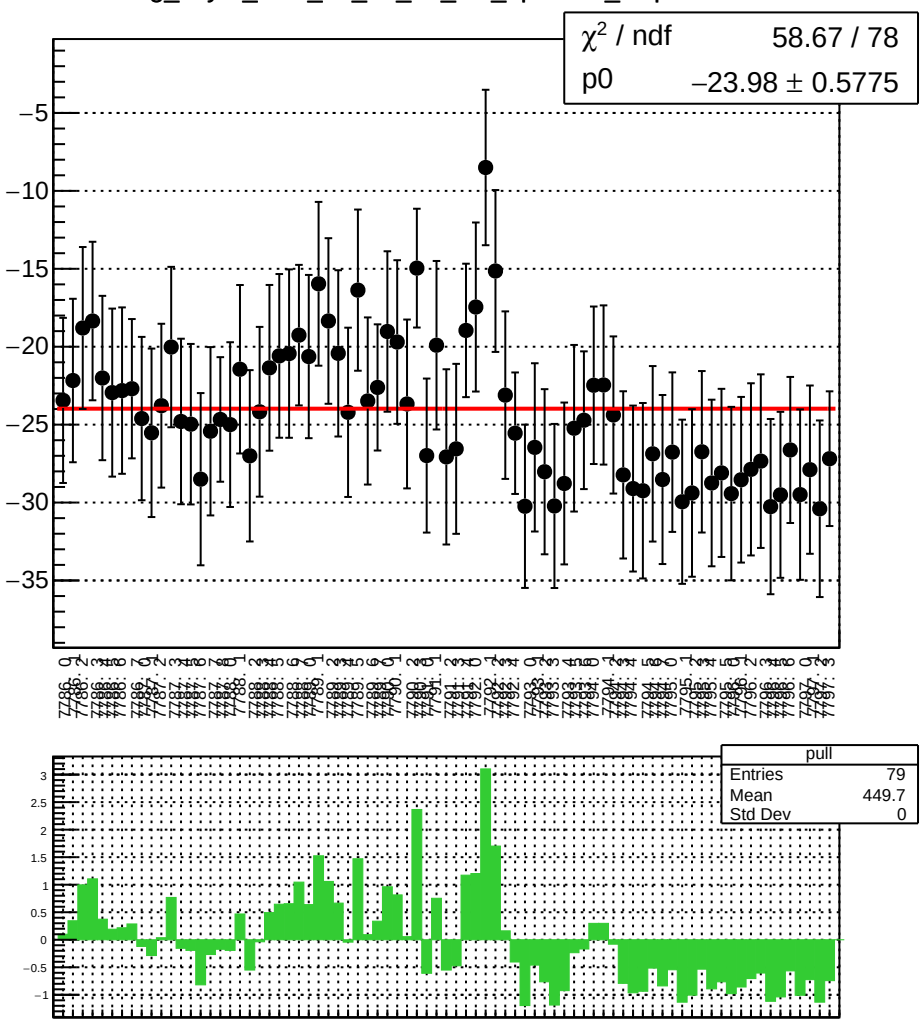

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.221 / 78
p0 −9.4 ± 2.37
pull
Entries 79
Mean −2980
Std Dev 0

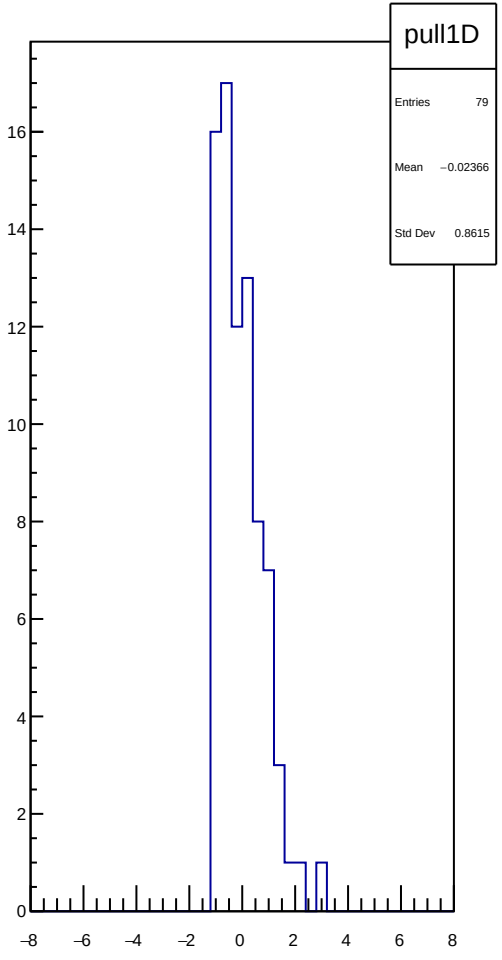

pull1D
Entries 79
Mean −0.0002685
Std Dev 0.1243

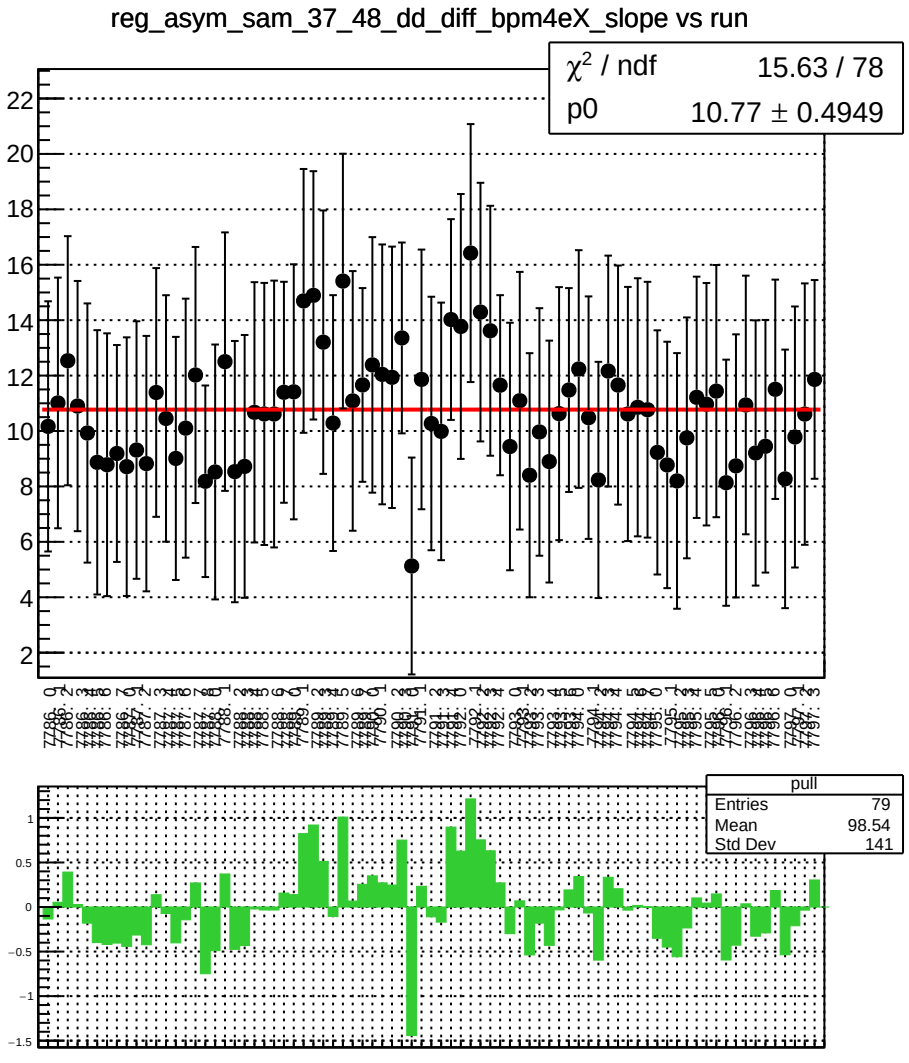

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.193 / 78
p0 1.135 ± 0.07368
pull
Entries 79
Mean −670.2
Std Dev 0
pull1D
Entries 79
Mean −0.001649
Std Dev 0.1666

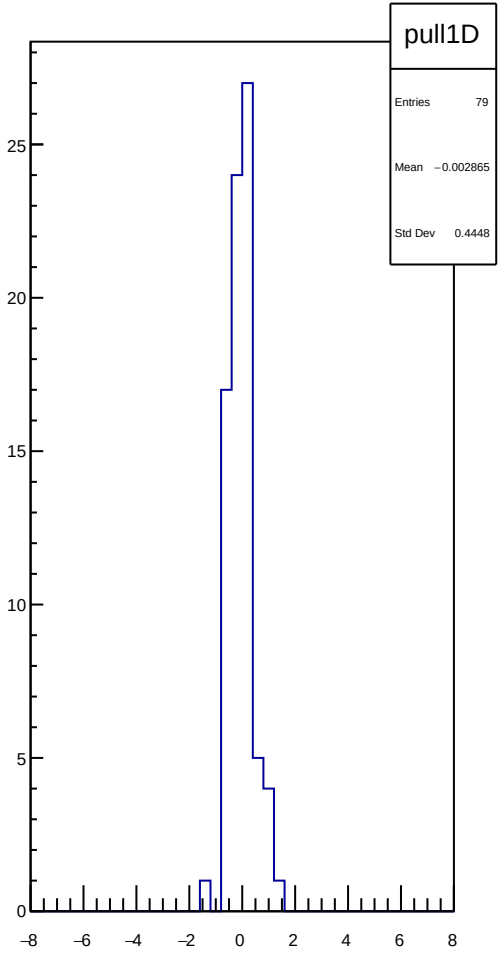

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 16.73 / 78
p0 1.565 ± 0.5689
pull
Entries 79
Mean 514
Std Dev 0

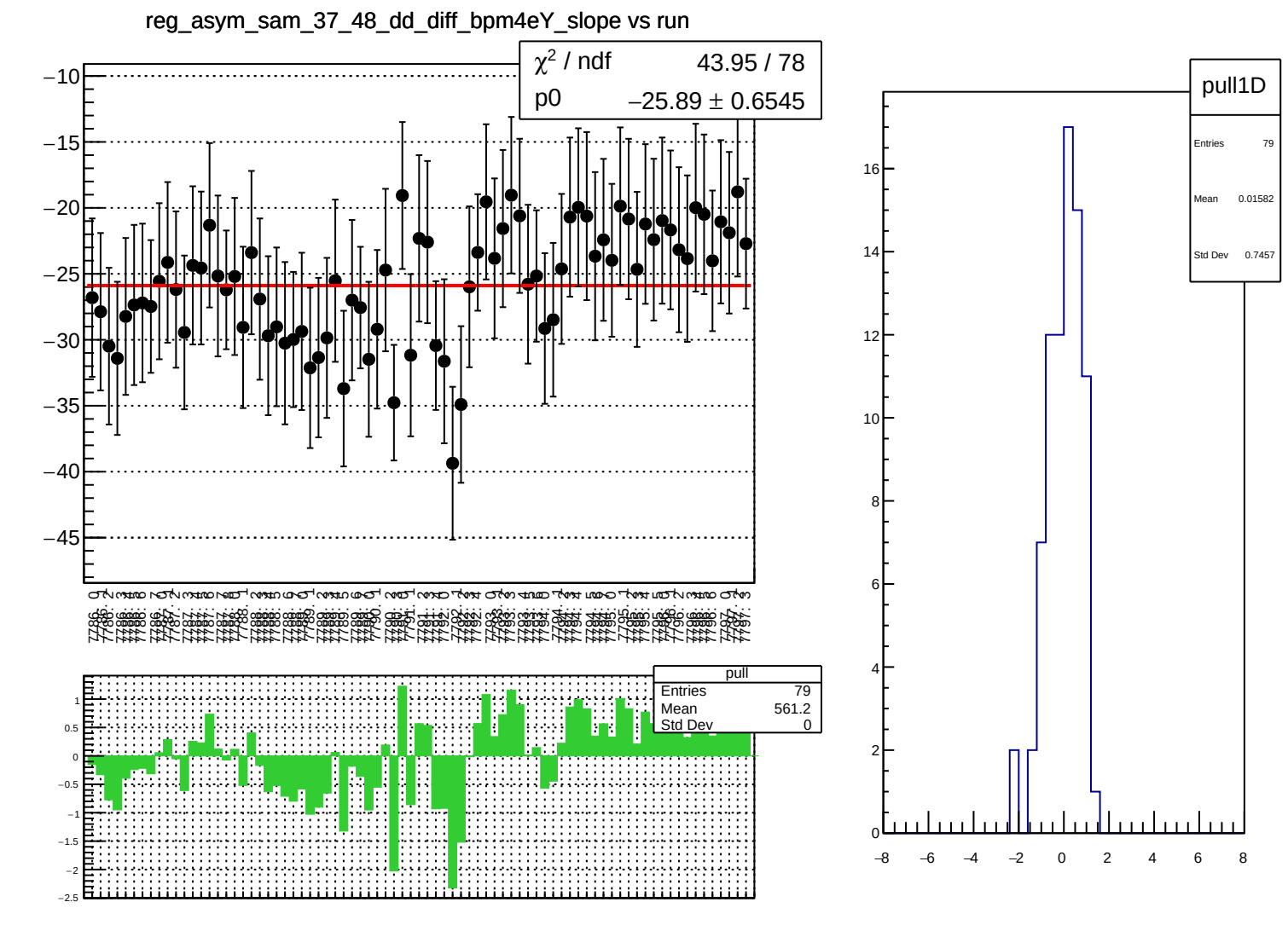

pull1D
Entries 79
Mean 0.003115
Std Dev 0.4602

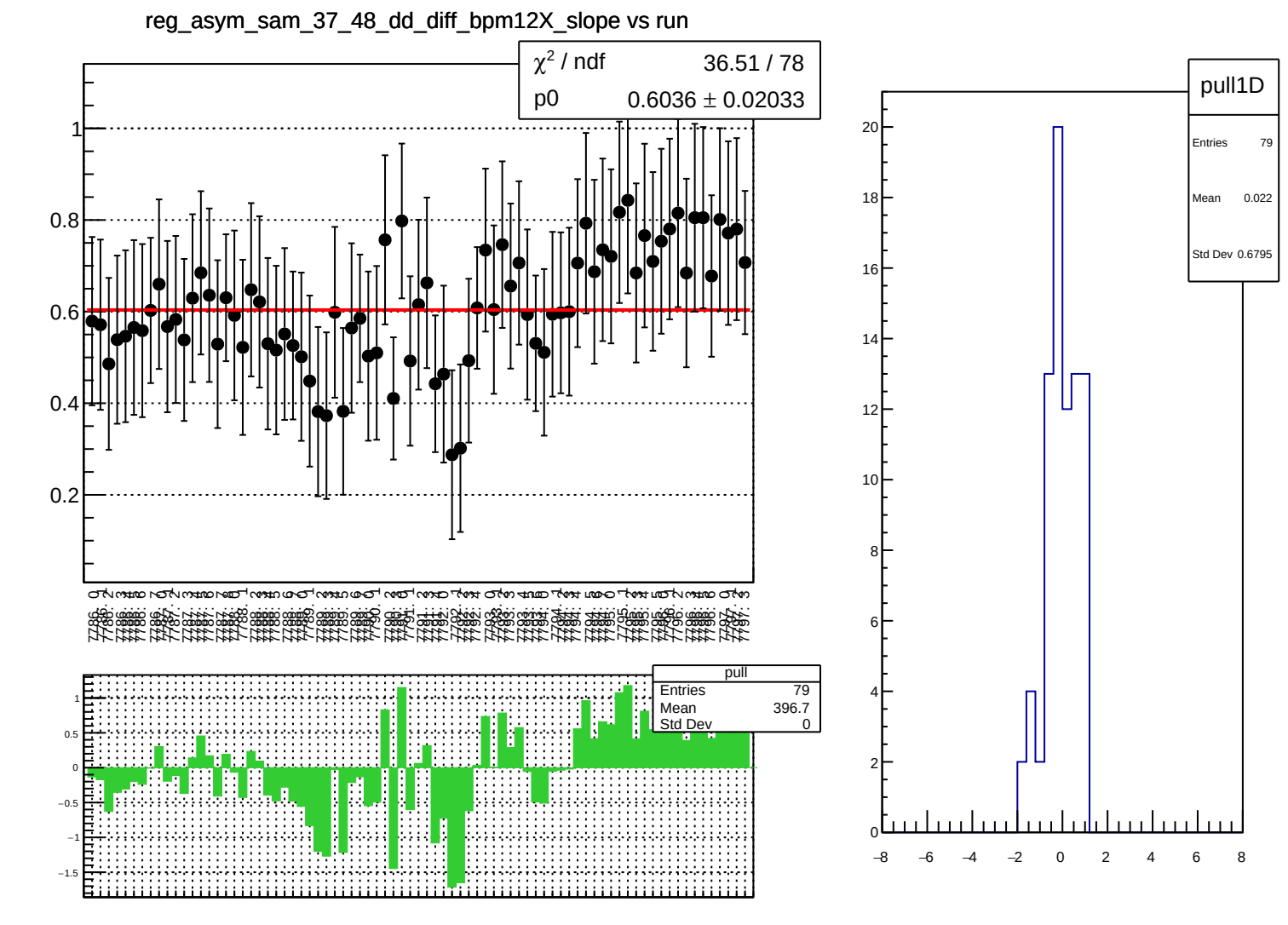

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.67 / 78
p0 −23.98 ± 0.5775
pull
Entries 79
Mean 449.7
Std Dev 0

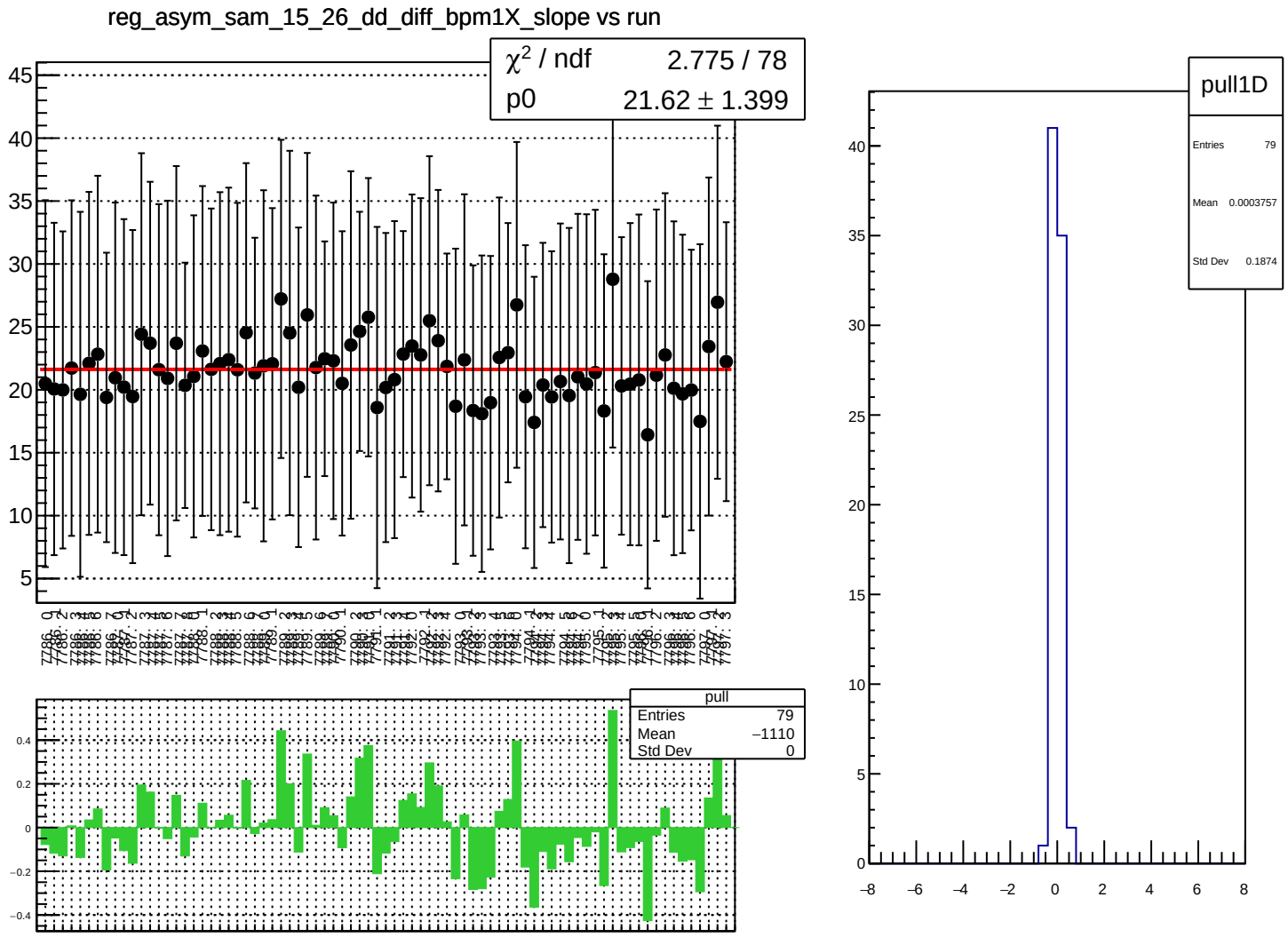

pull1D
Entries 79
Mean −0.02366
Std Dev 0.8615

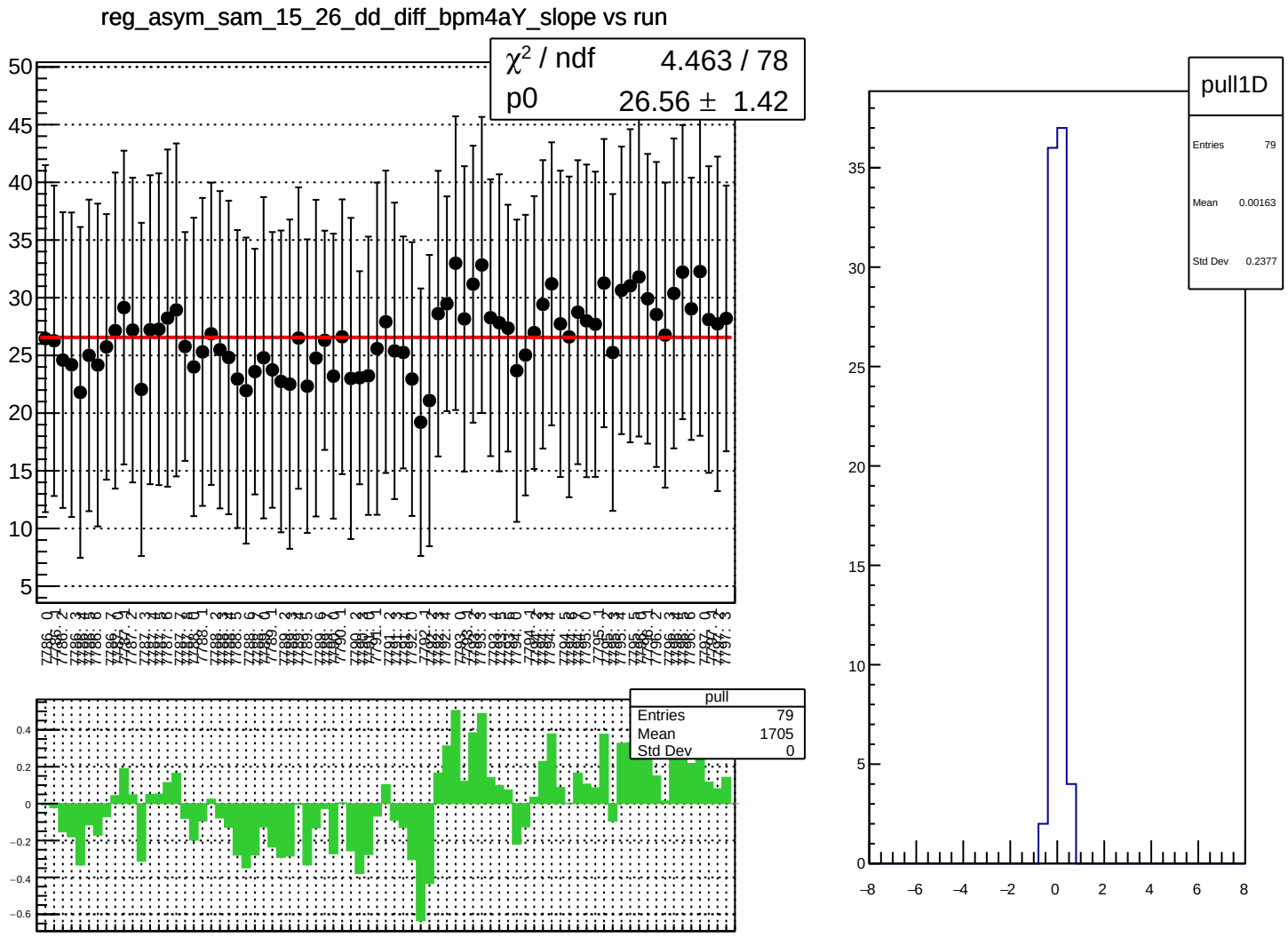

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.63 / 78
p0 10.77 ± 0.4949
pull
Entries 79
Mean 98.54
Std Dev 141

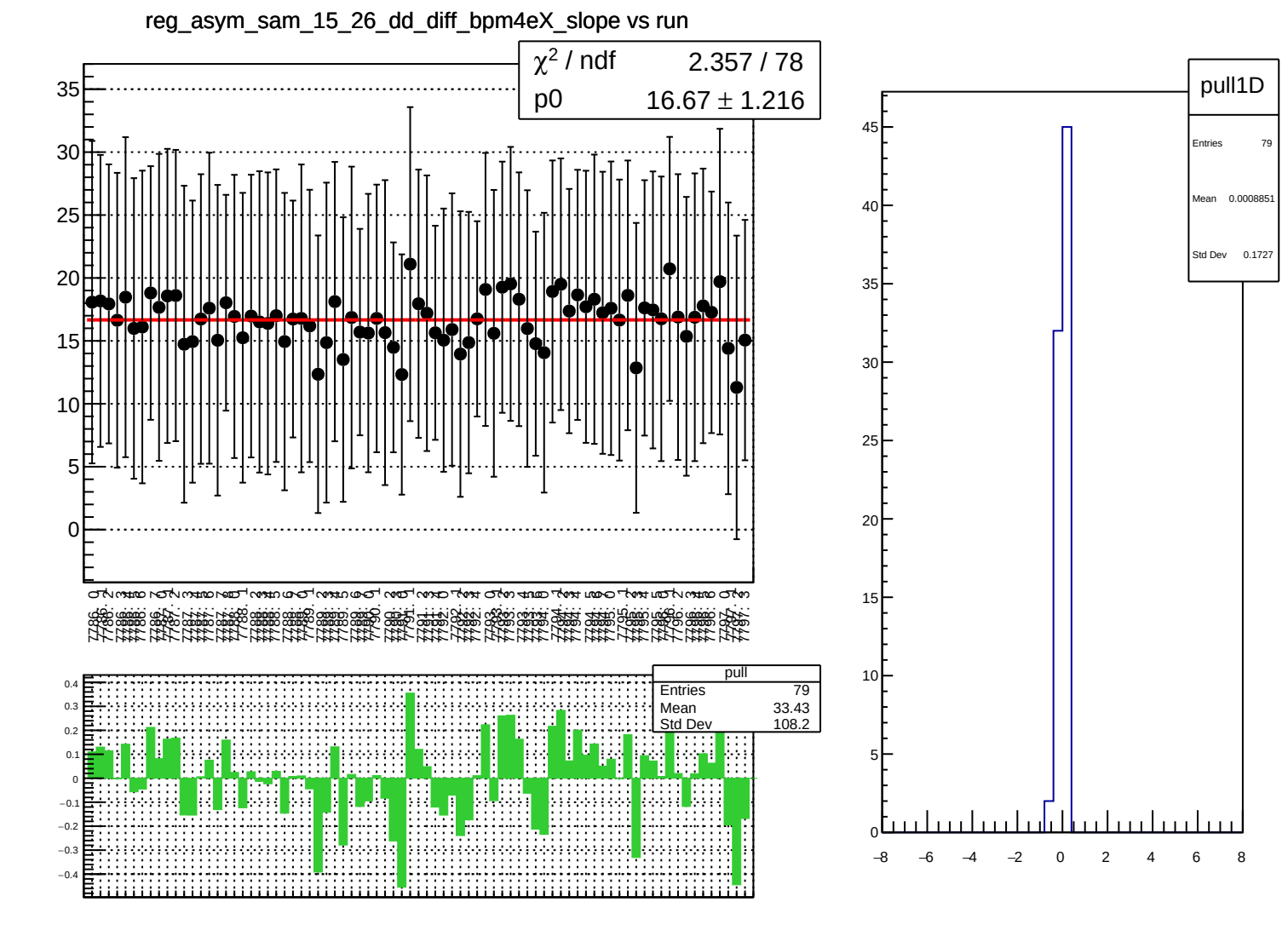

pull1D
Entries 79
Mean −0.002865
Std Dev 0.4448

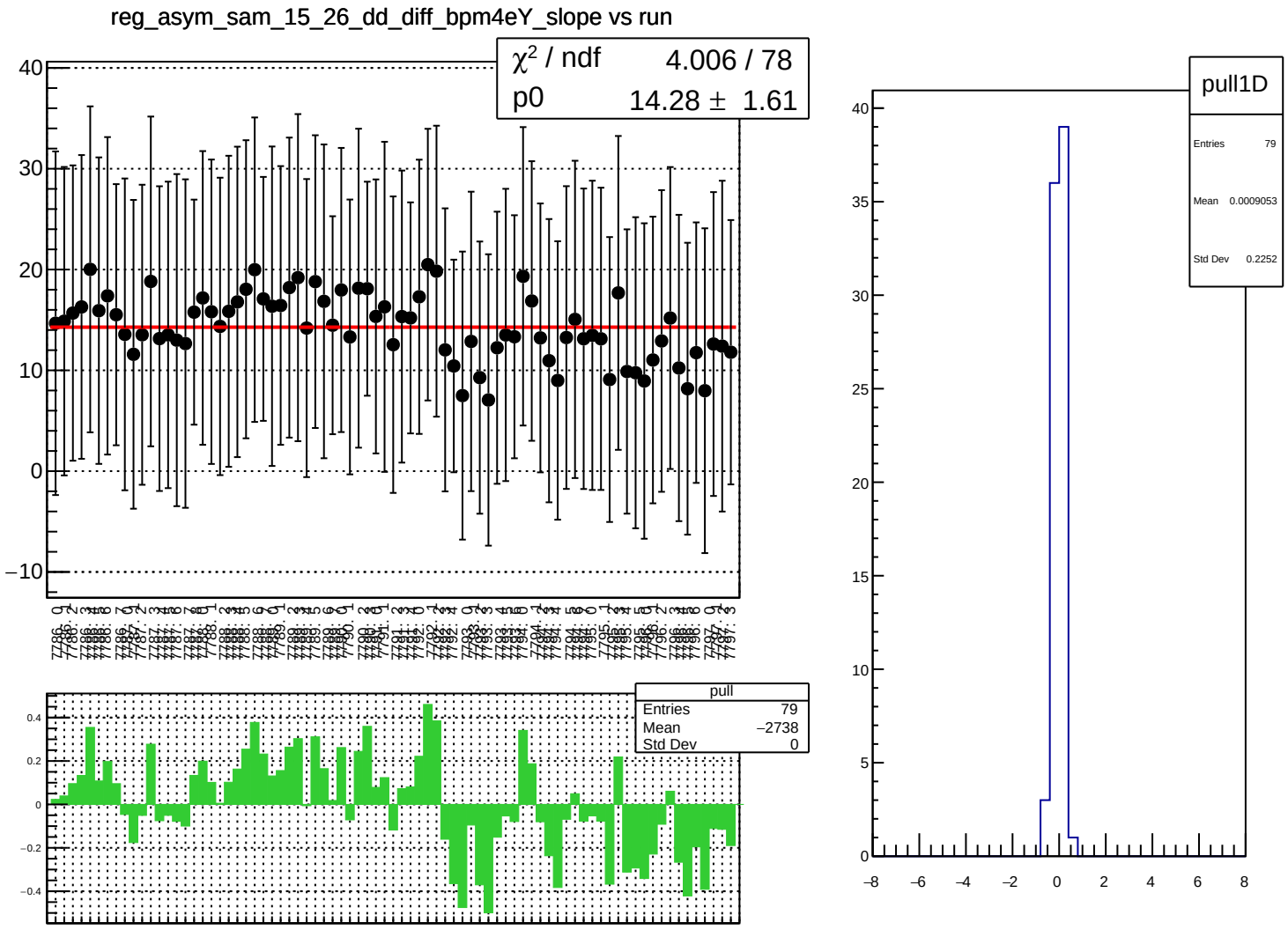

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.95 / 78
p0 −25.89 ± 0.6545
pull
Entries 79
Mean 561.2
Std Dev 0
pull1D
Entries 79
Mean 0.01582
Std Dev 0.7457

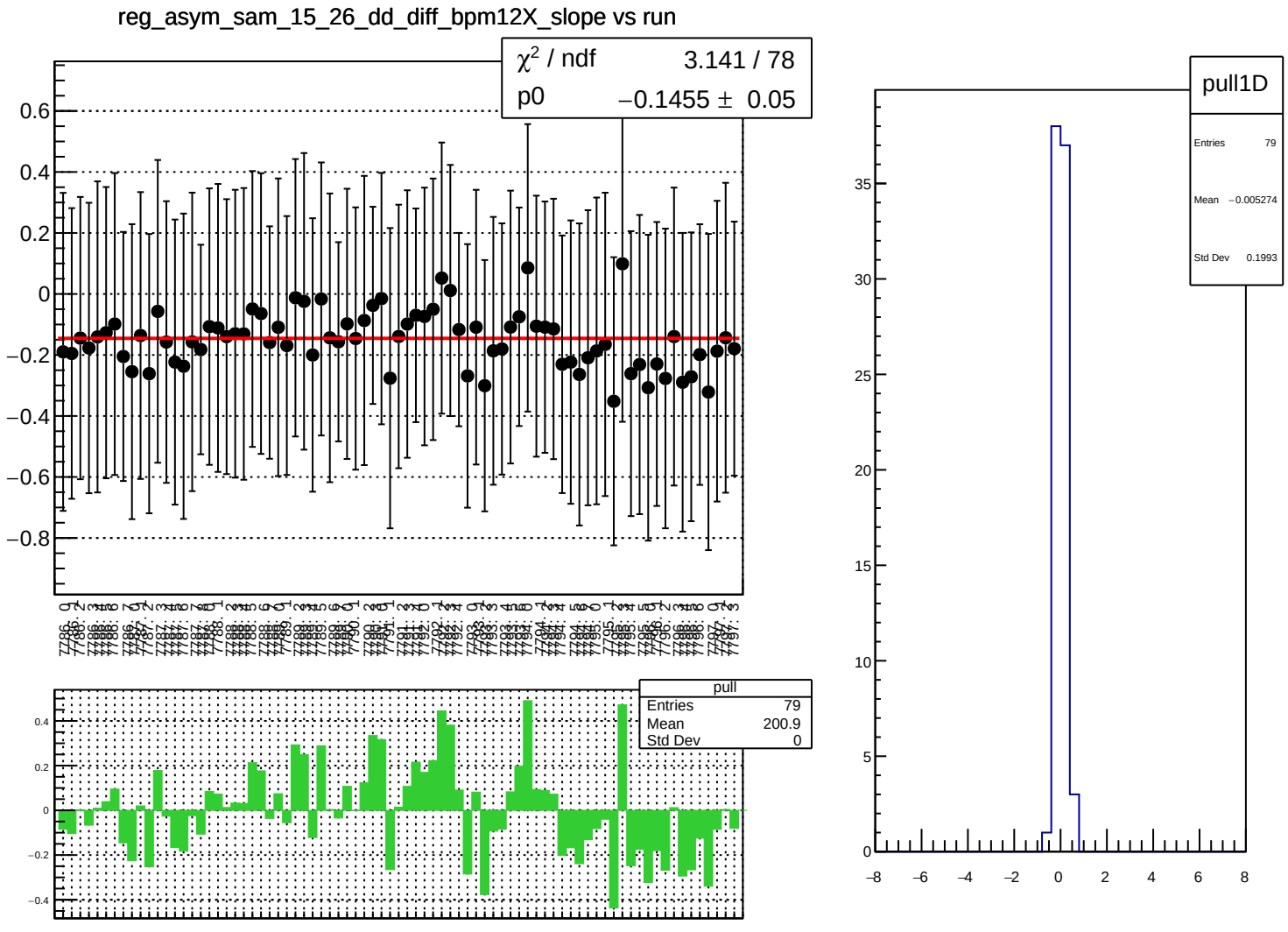

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 36.51 / 78
p0 0.6036 ± 0.02033
pull
Entries 79
Mean 396.7
Std Dev 0
pull1D
Entries 79
Mean 0.022
Std Dev 0.6795

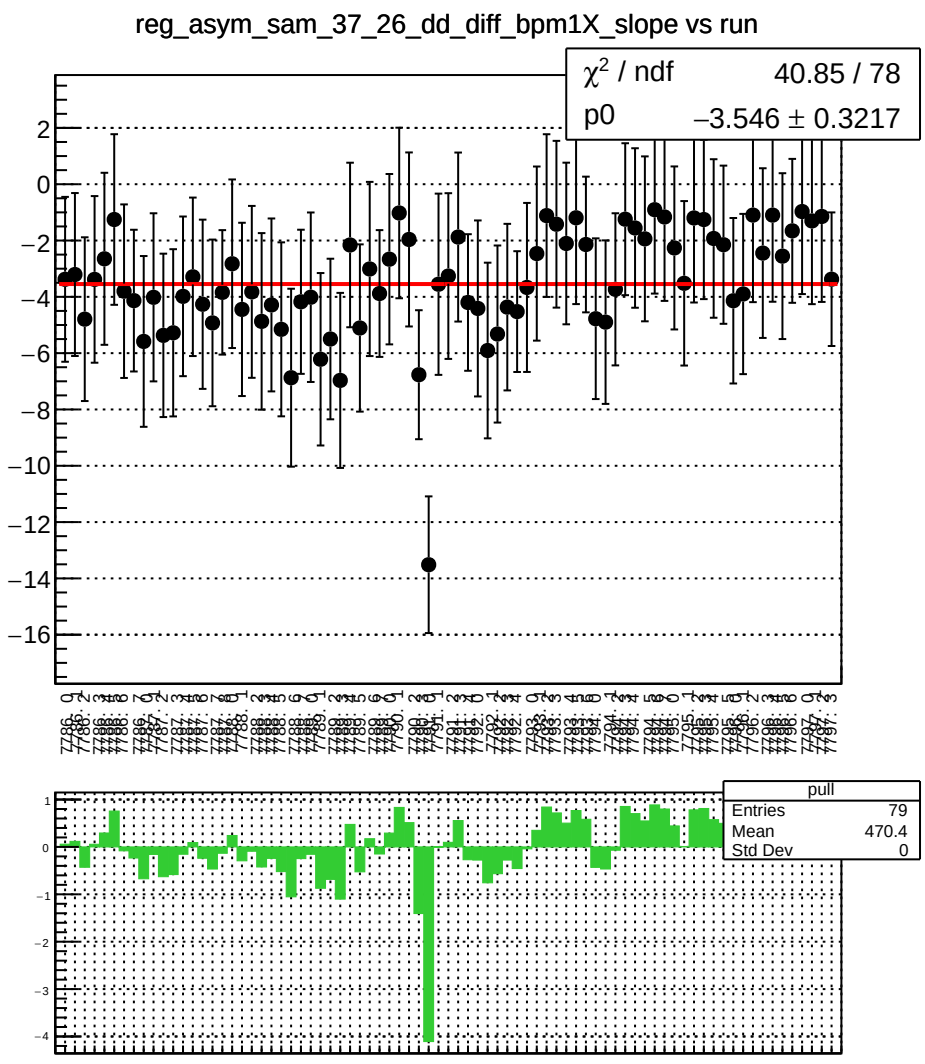

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.775 / 78
p0 21.62 ± 1.399
pull
Entries 79
Mean −1110
Std Dev 0
pull1D
Entries 79
Mean 0.0003757
Std Dev 0.1874

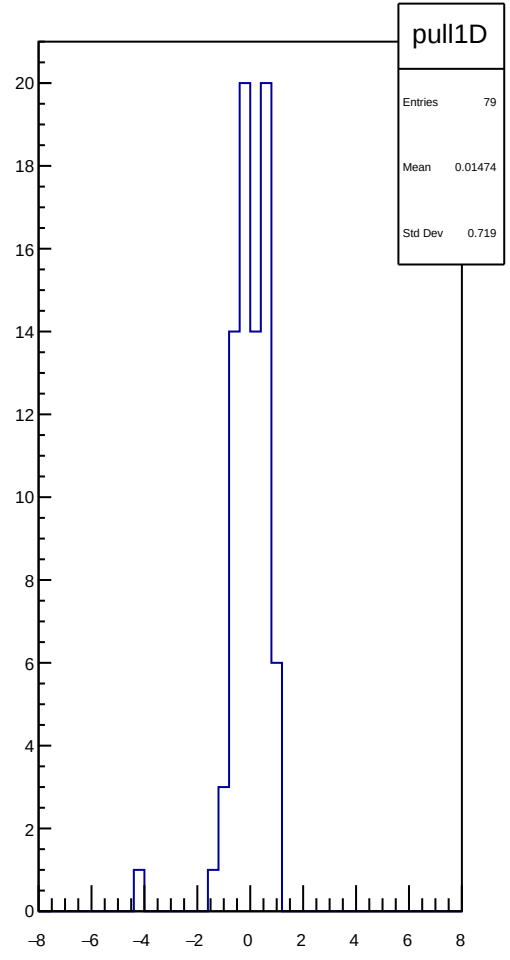

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.463 / 78
p0 26.56 ± 1.42
pull
Entries 79
Mean 1705
Std Dev 0
pull1D
Entries 79
Mean 0.00163
Std Dev 0.2377

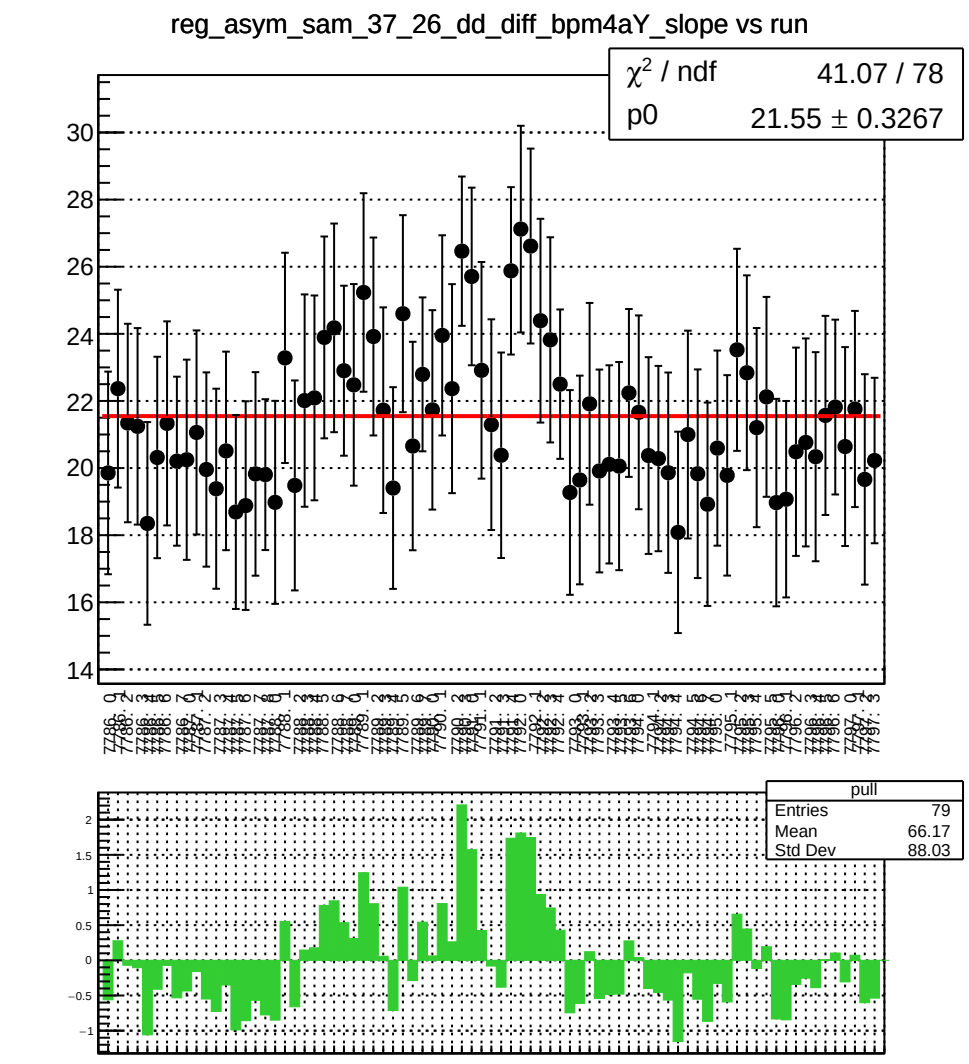

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.357 / 78
p0 16.67 ± 1.216
pull
Entries 79
Mean 33.43
Std Dev 108.2
pull1D
Entries 79
Mean 0.0008851
Std Dev 0.1727

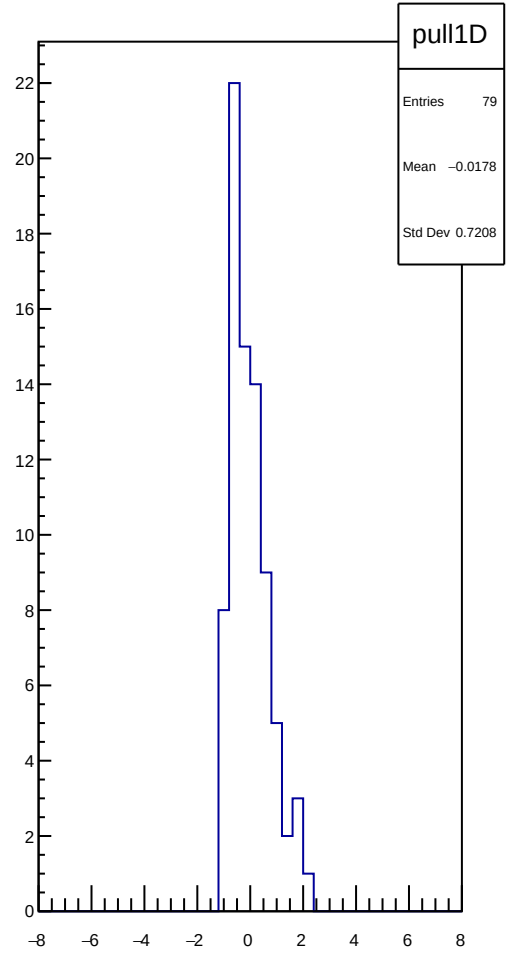

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.006 / 78
p0 14.28 ± 1.61
pull
Entries 79
Mean −2738
Std Dev 0
pull1D
Entries 79
Mean 0.0009053
Std Dev 0.2252

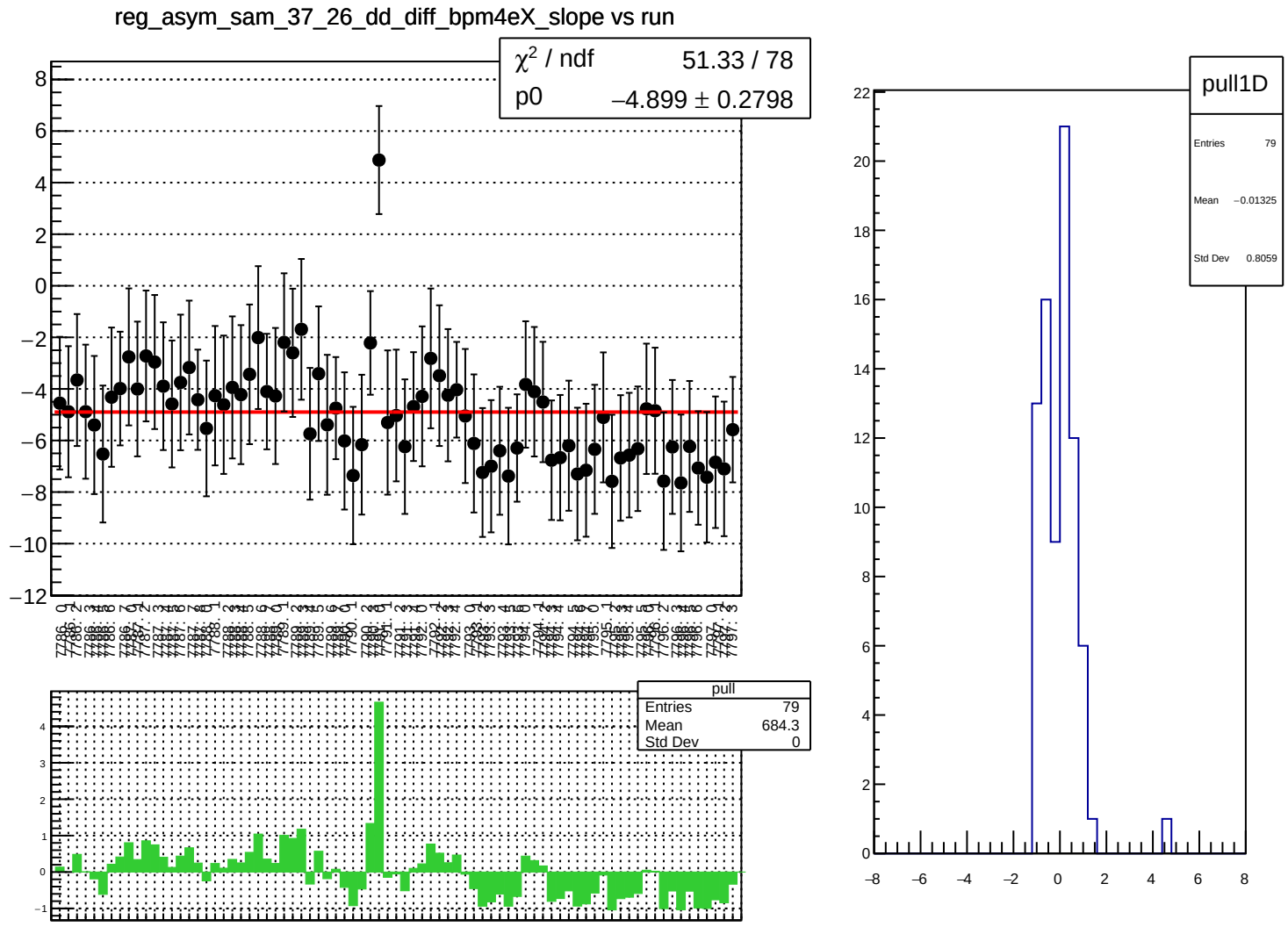

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.141 / 78
p0 −0.1455 ± 0.05
pull
Entries 79
Mean 200.9
Std Dev 0
pull1D
Entries 79
Mean −0.005274
Std Dev 0.1993

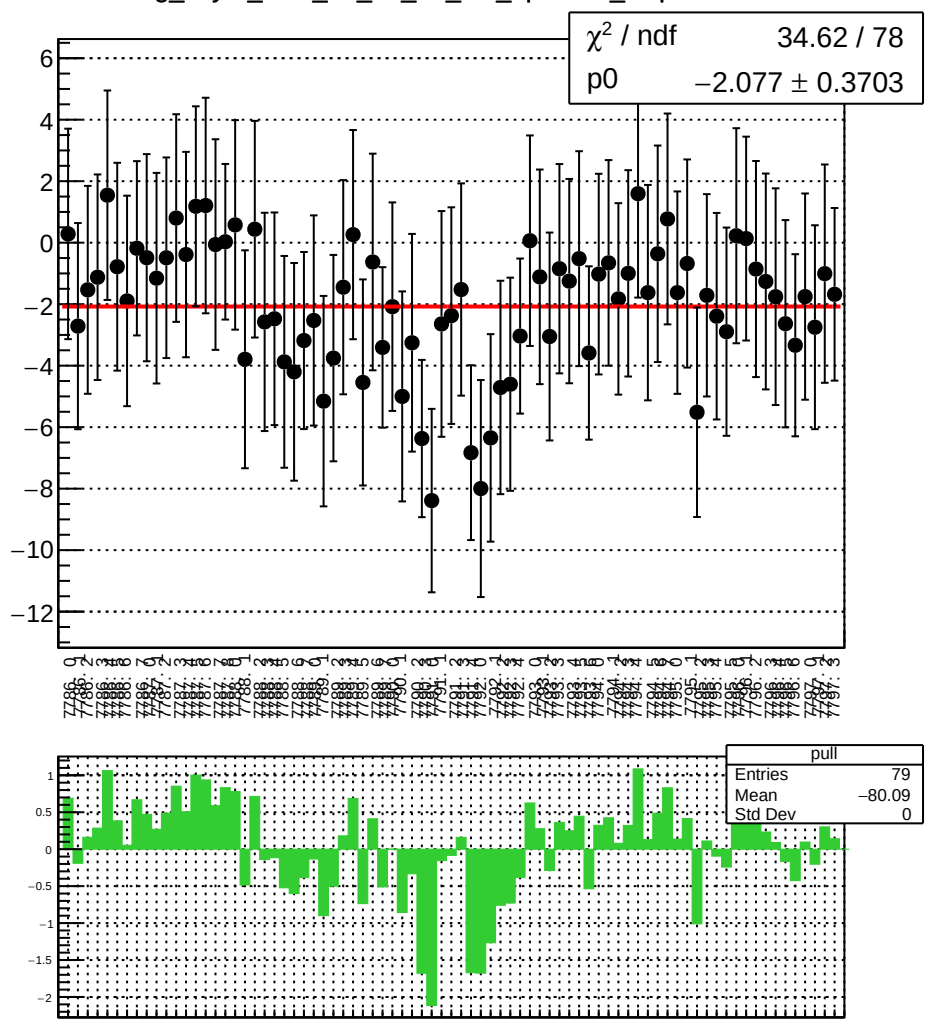

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 40.85 / 78
p0 −3.546 ± 0.3217
pull
Entries 79
Mean 470.4
Std Dev 0

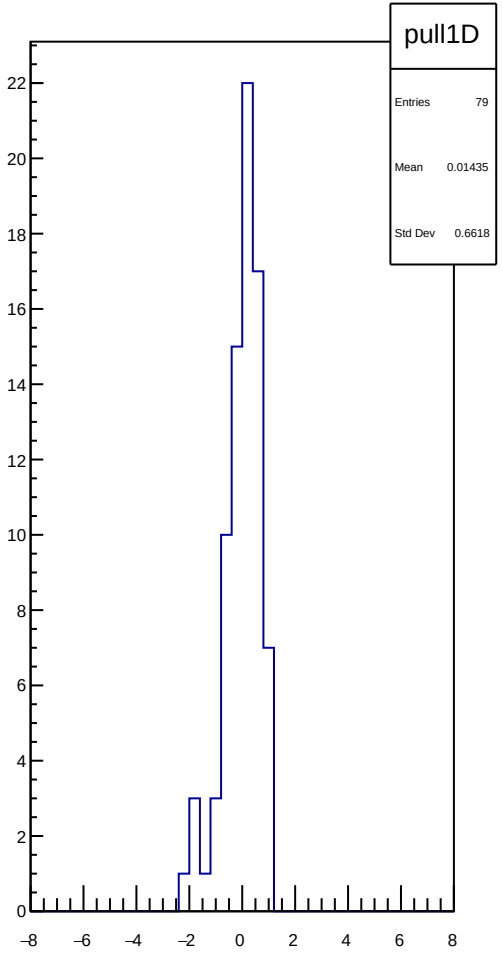

pull1D
Entries 79
Mean 0.01474
Std Dev 0.719

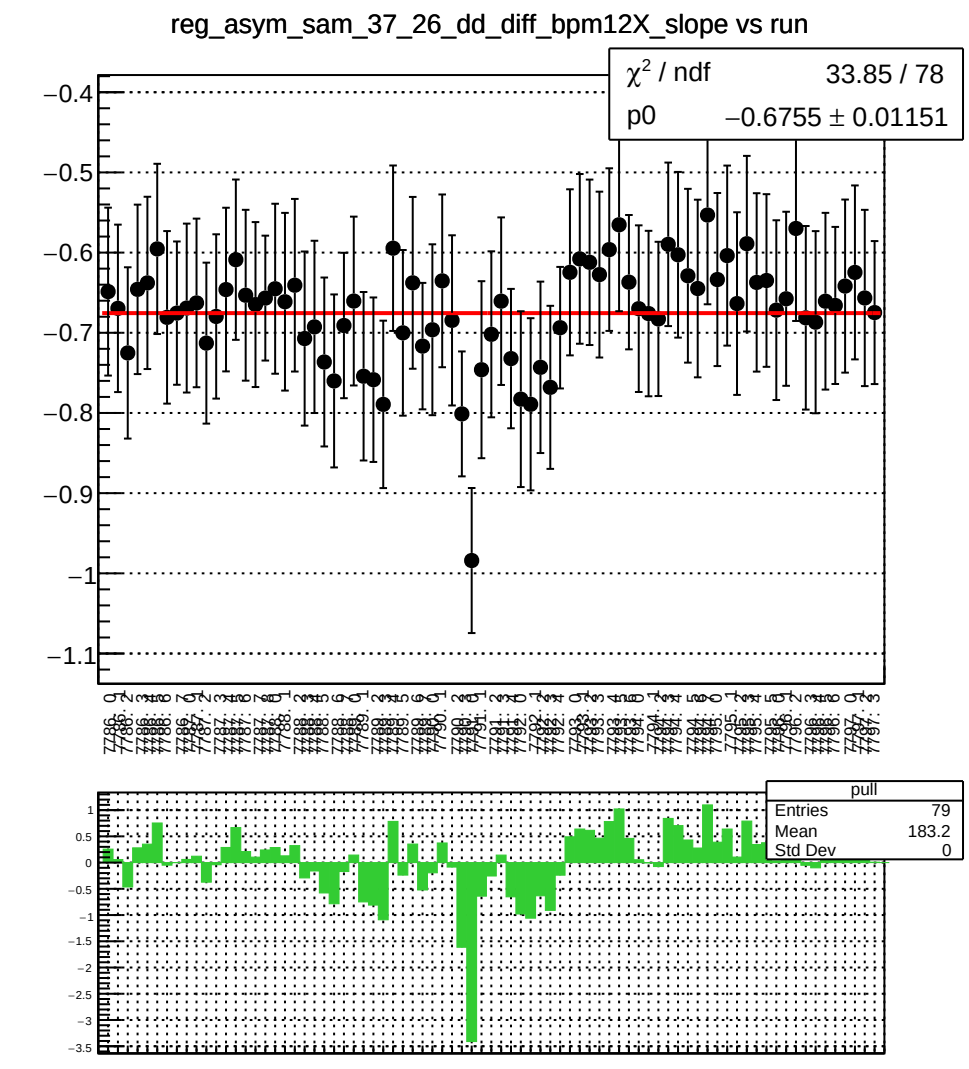

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.07 / 78
p0 21.55 ± 0.3267
pull
Entries 79
Mean 66.17
Std Dev 88.03

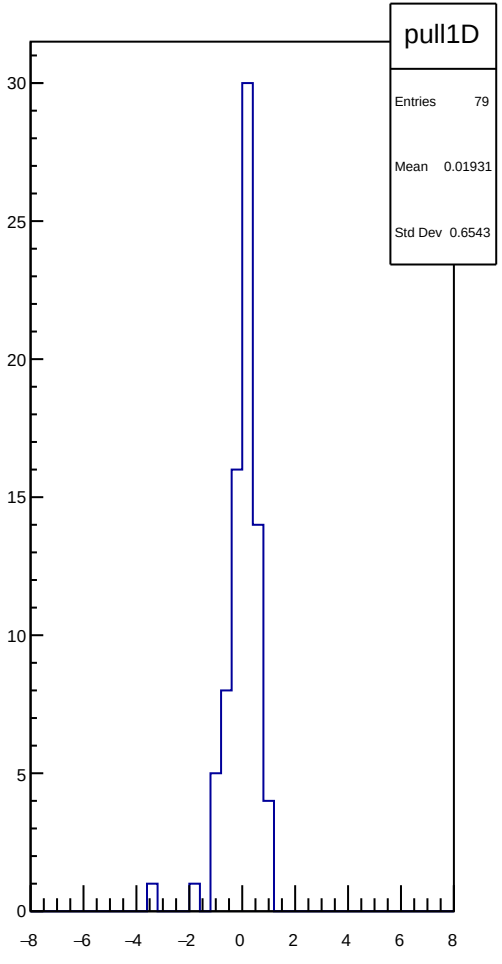

pull1D
Entries 79
Mean −0.0178
Std Dev 0.7208

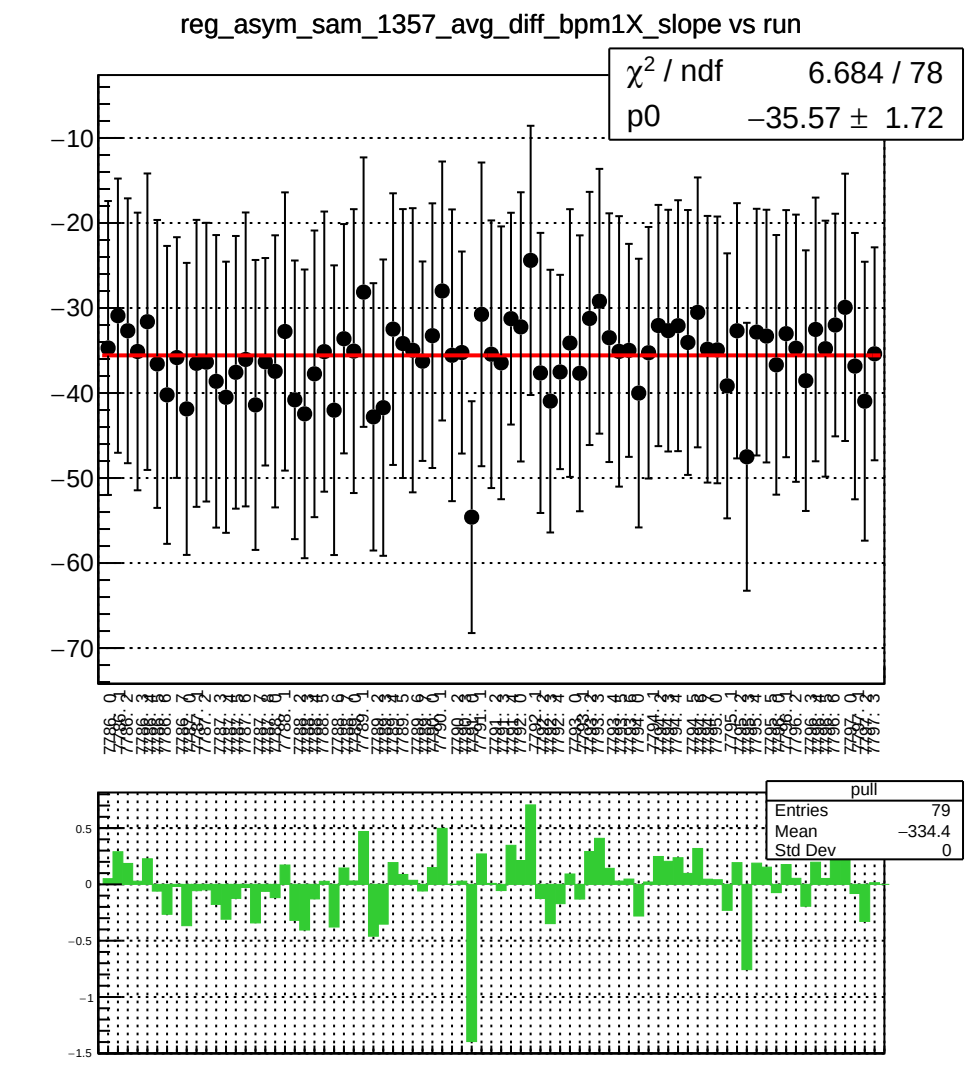

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.33 / 78
p0 −4.899 ± 0.2798
pull
Entries 79
Mean 684.3
Std Dev 0
pull1D
Entries 79
Mean −0.01325
Std Dev 0.8059

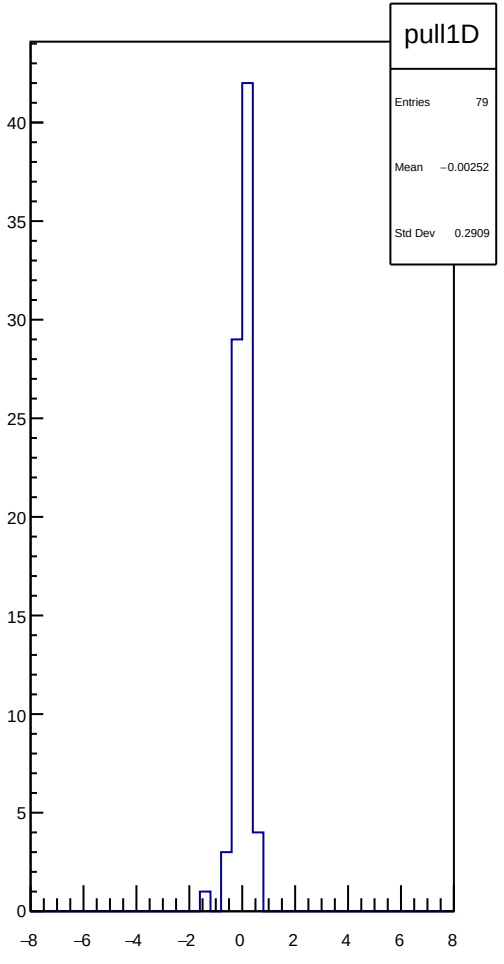

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.62 / 78
p0 −2.077 ± 0.3703
pull
Entries 79
Mean −80.09
Std Dev 0

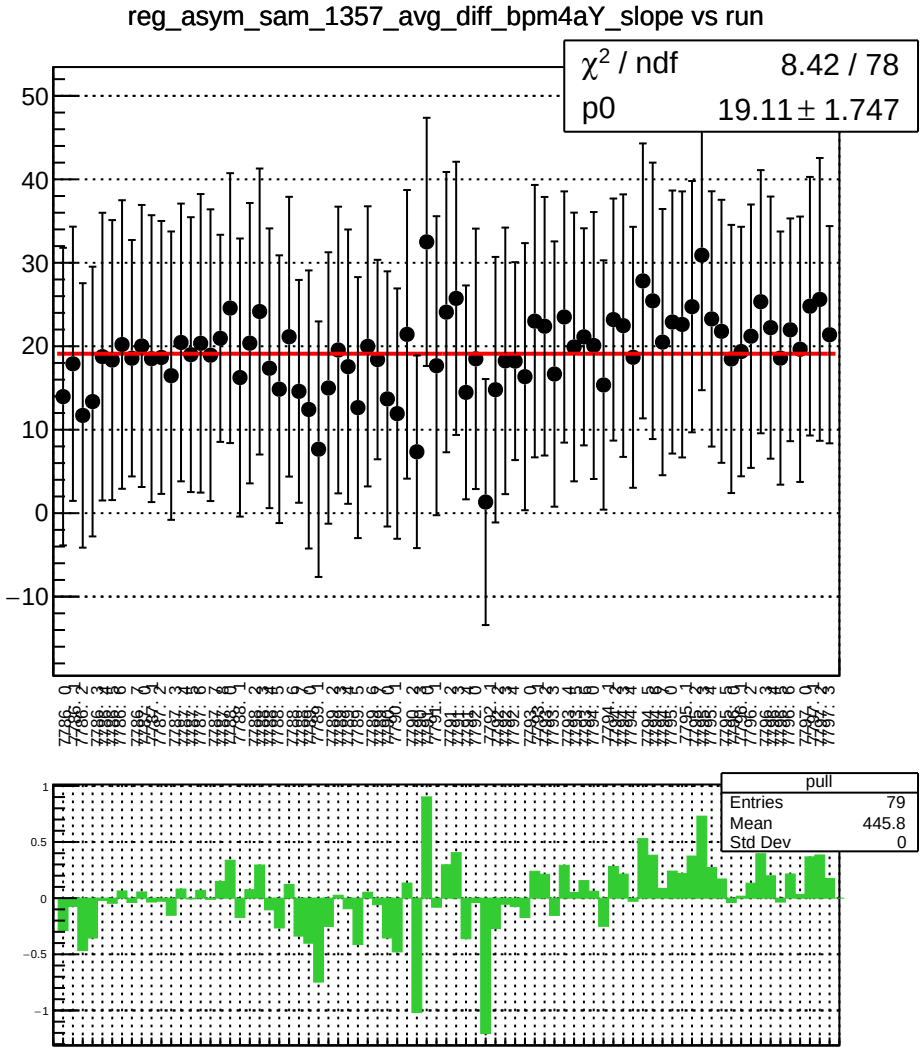

pull1D
Entries 79
Mean 0.01435
Std Dev 0.6618

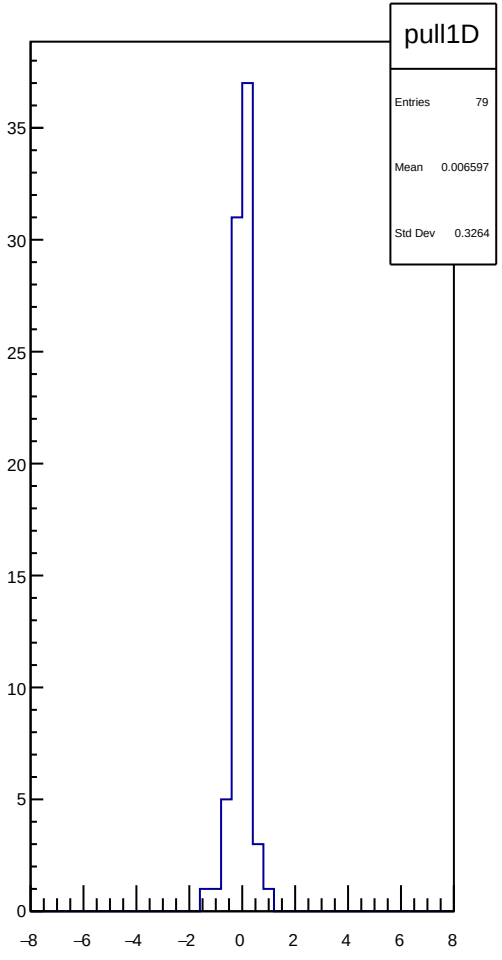

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 33.85 / 78
p0 −0.6755 ± 0.01151
pull
Entries 79
Mean 183.2
Std Dev 0

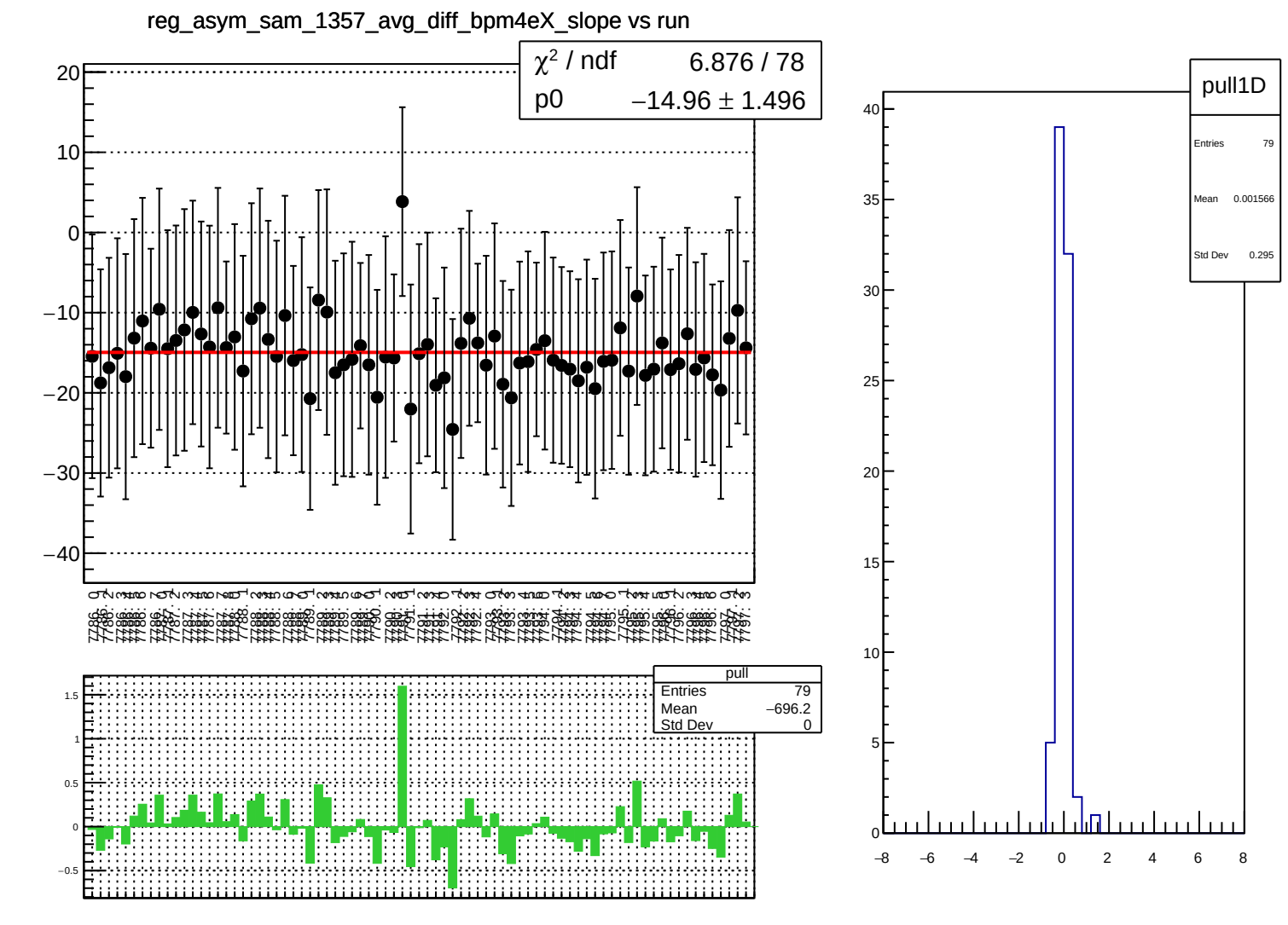

pull1D
Entries 79
Mean 0.01931
Std Dev 0.6543

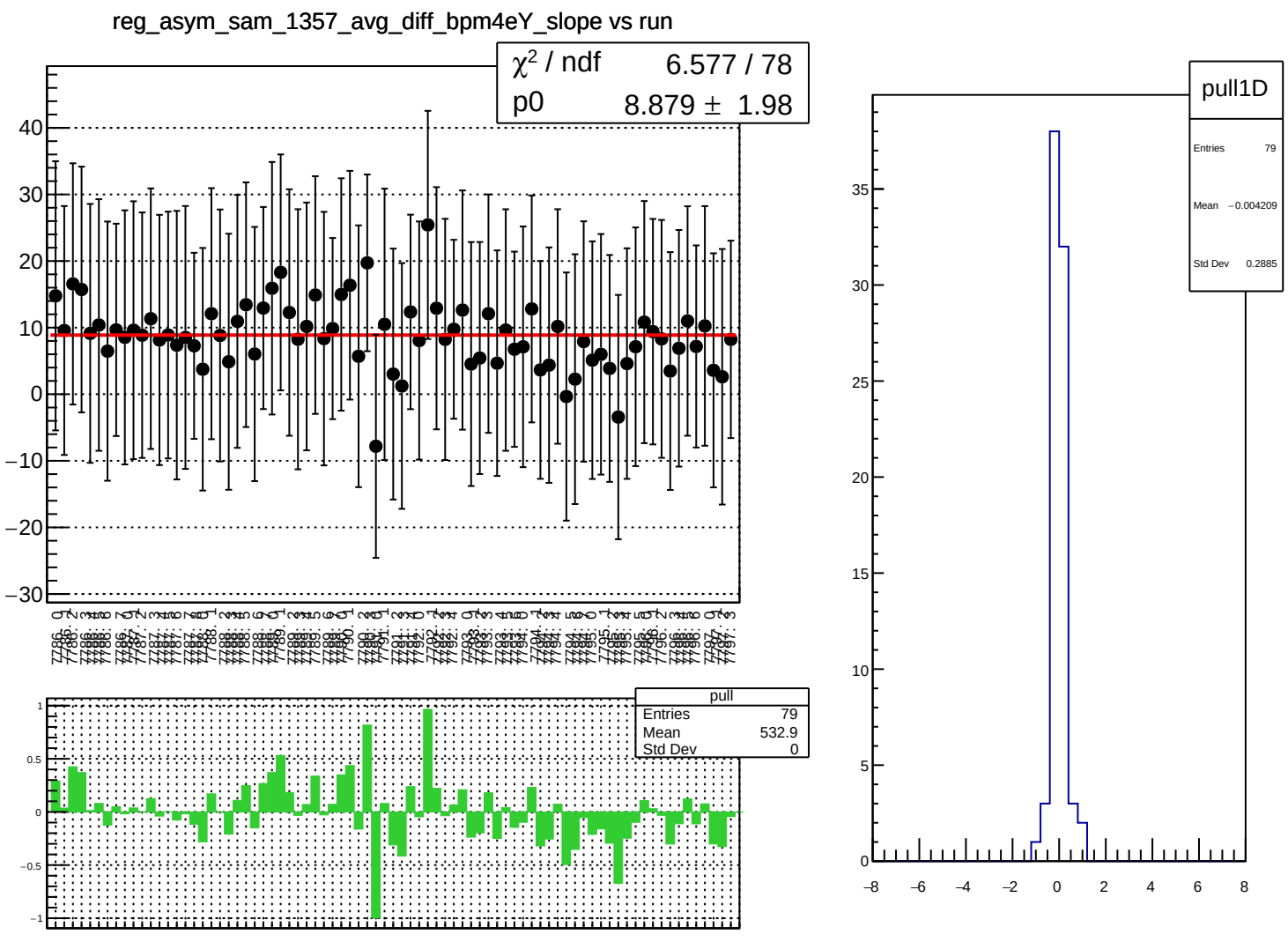

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 6.684 / 78
p0 −35.57 ± 1.72
pull
Entries 79
Mean −334.4
Std Dev 0

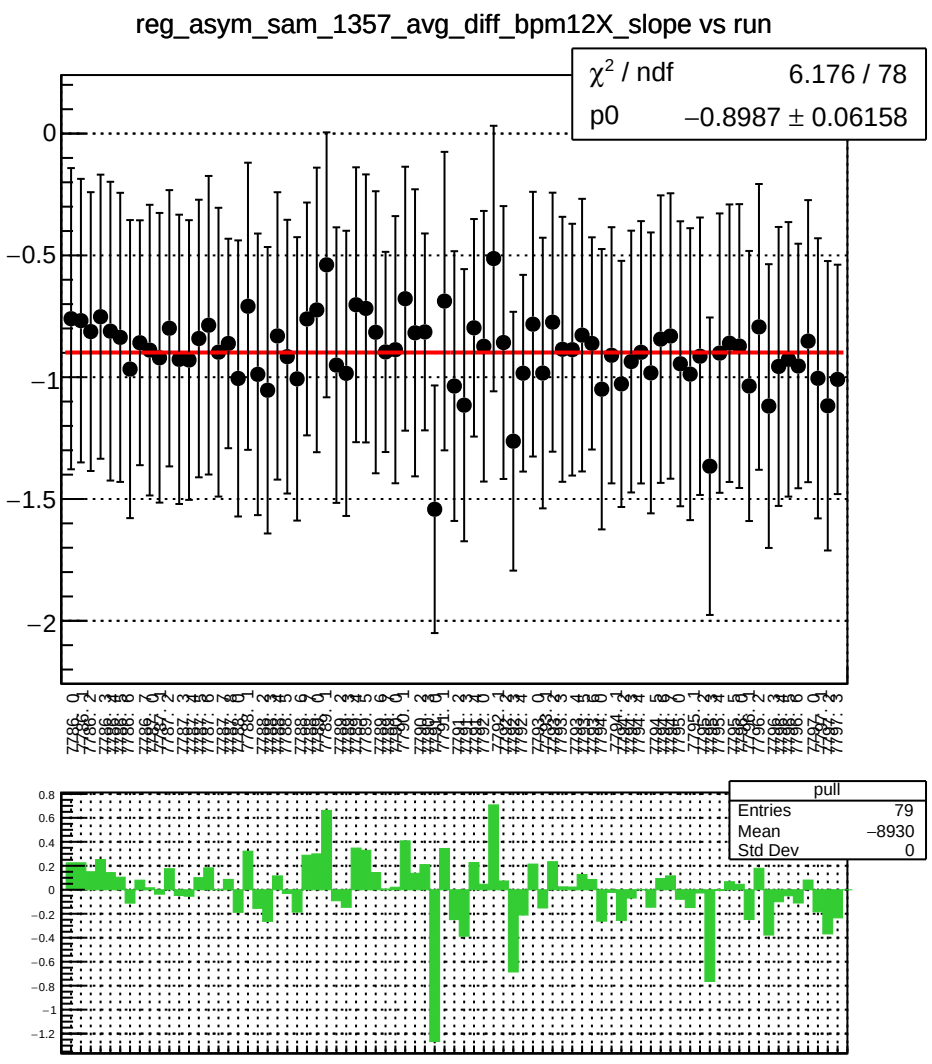

pull1D
Entries 79
Mean −0.00252
Std Dev 0.2909

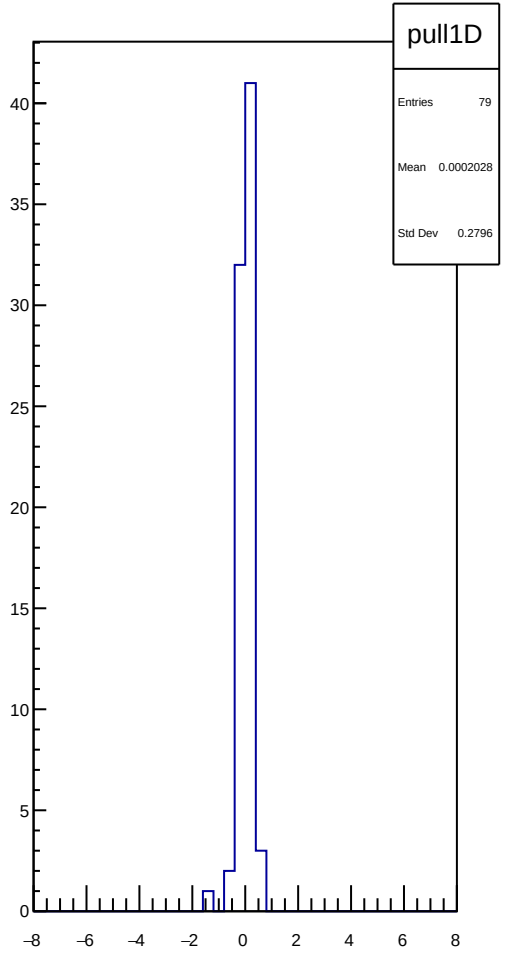

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.42 / 78
p0 19.11 ± 1.747
pull
Entries 79
Mean 445.8
Std Dev 0

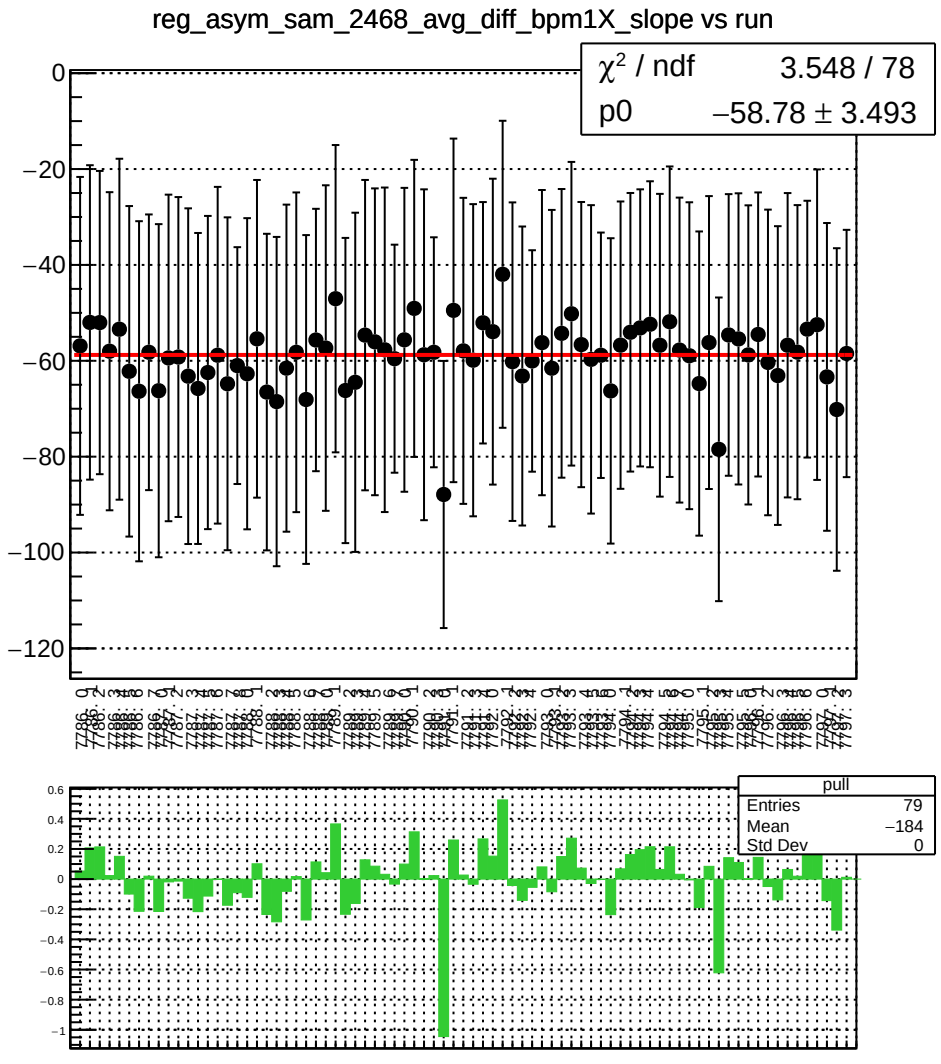

pull1D
Entries 79
Mean 0.006597
Std Dev 0.3264

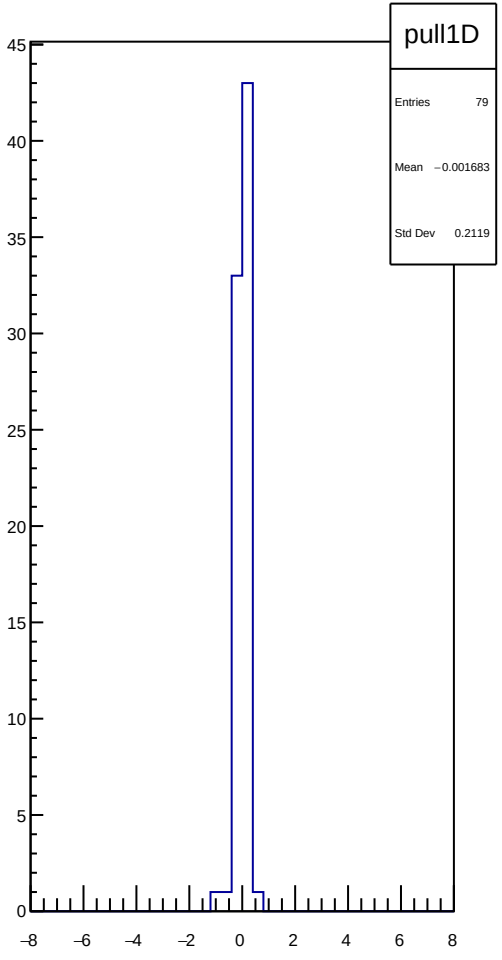

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.876 / 78
p0 −14.96 ± 1.496
pull
Entries 79
Mean −696.2
Std Dev 0
pull1D
Entries 79
Mean 0.001566
Std Dev 0.295

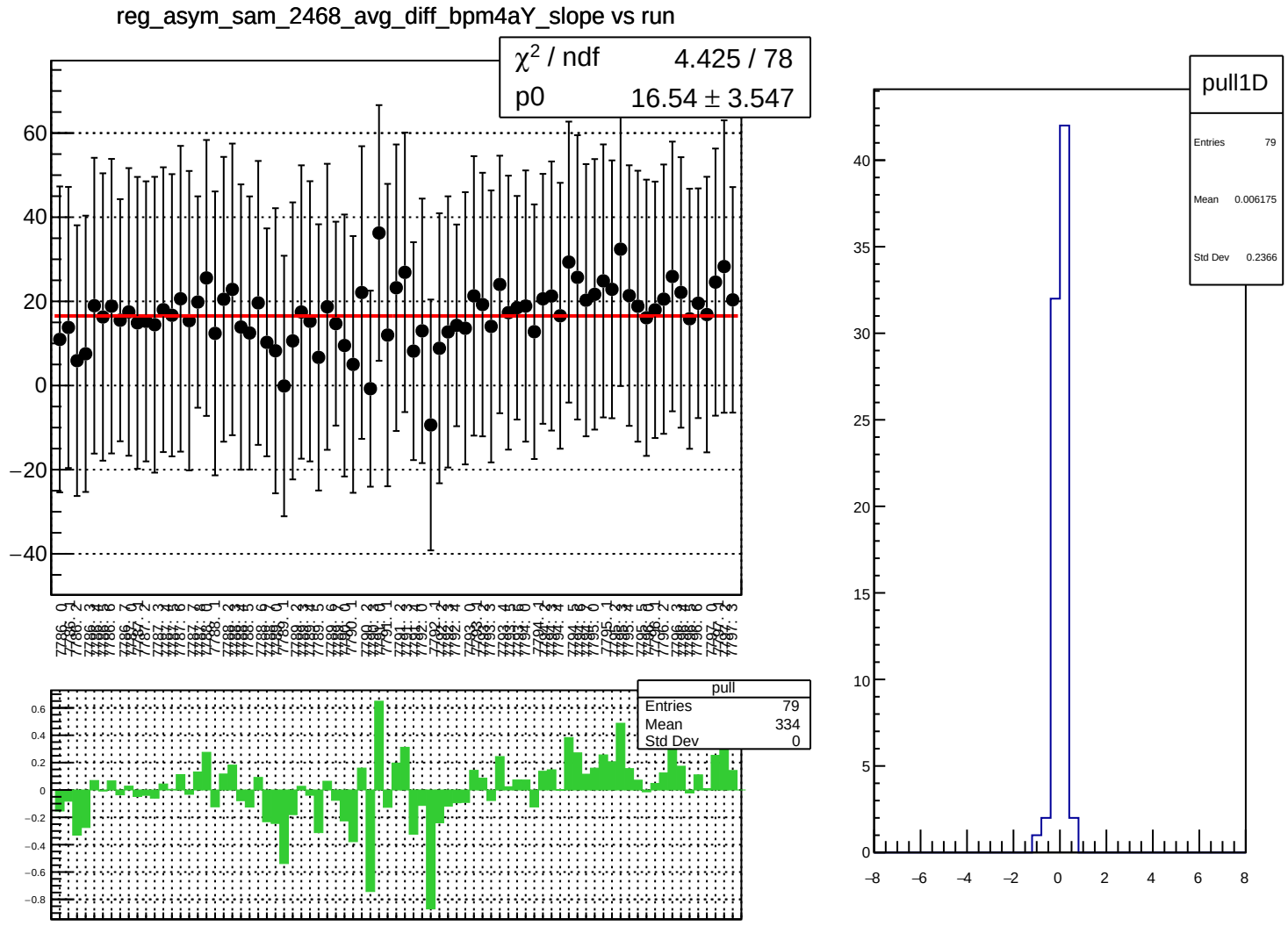

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.577 / 78
p0 8.879 ± 1.98
pull
Entries 79
Mean 532.9
Std Dev 0
pull1D
Entries 79
Mean −0.004209
Std Dev 0.2885

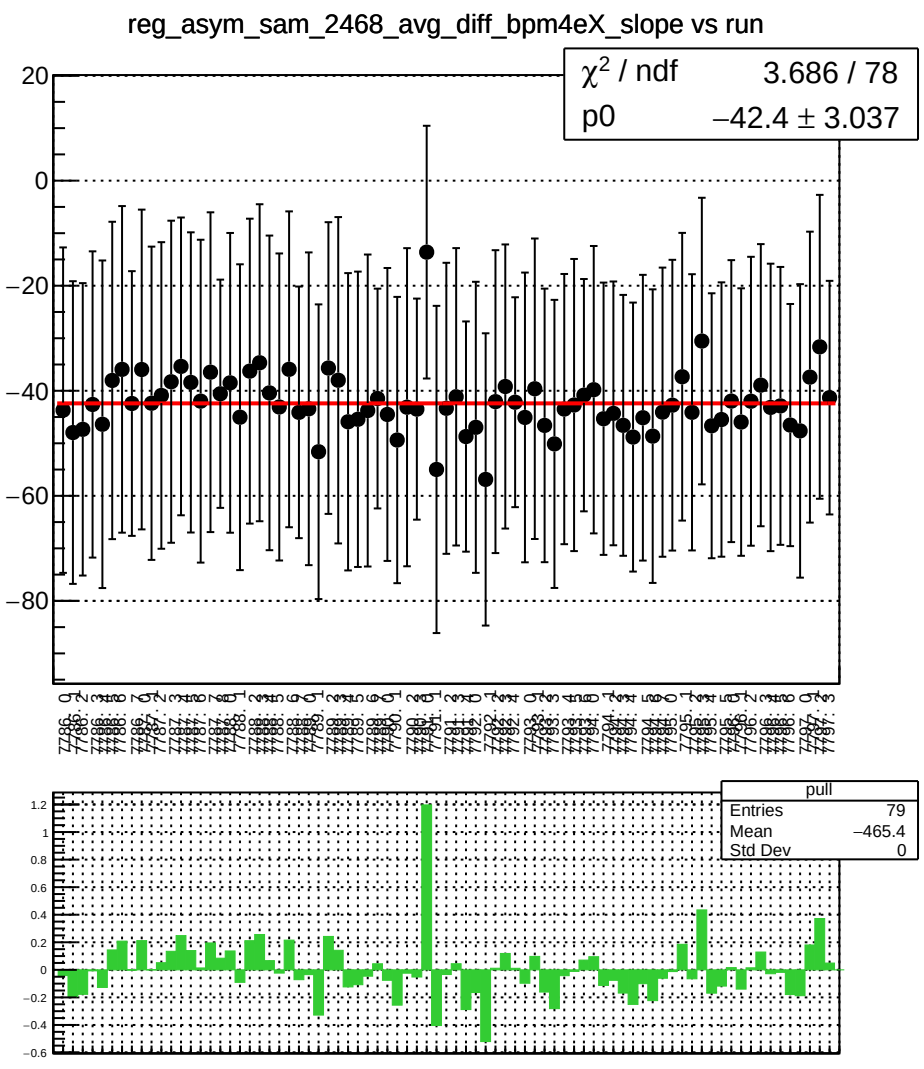

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 6.176 / 78
p0 −0.8987 ± 0.06158
pull
Entries 79
Mean −8930
Std Dev 0

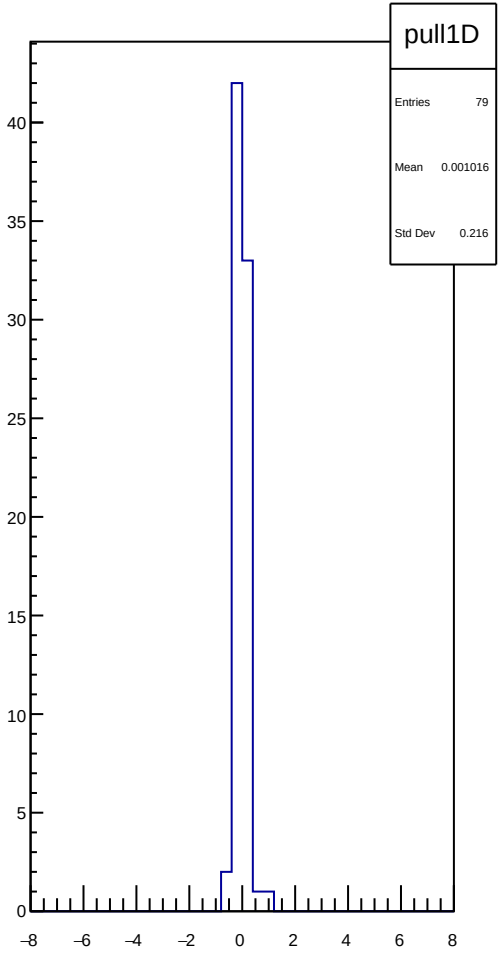

pull1D
Entries 79
Mean 0.0002028
Std Dev 0.2796

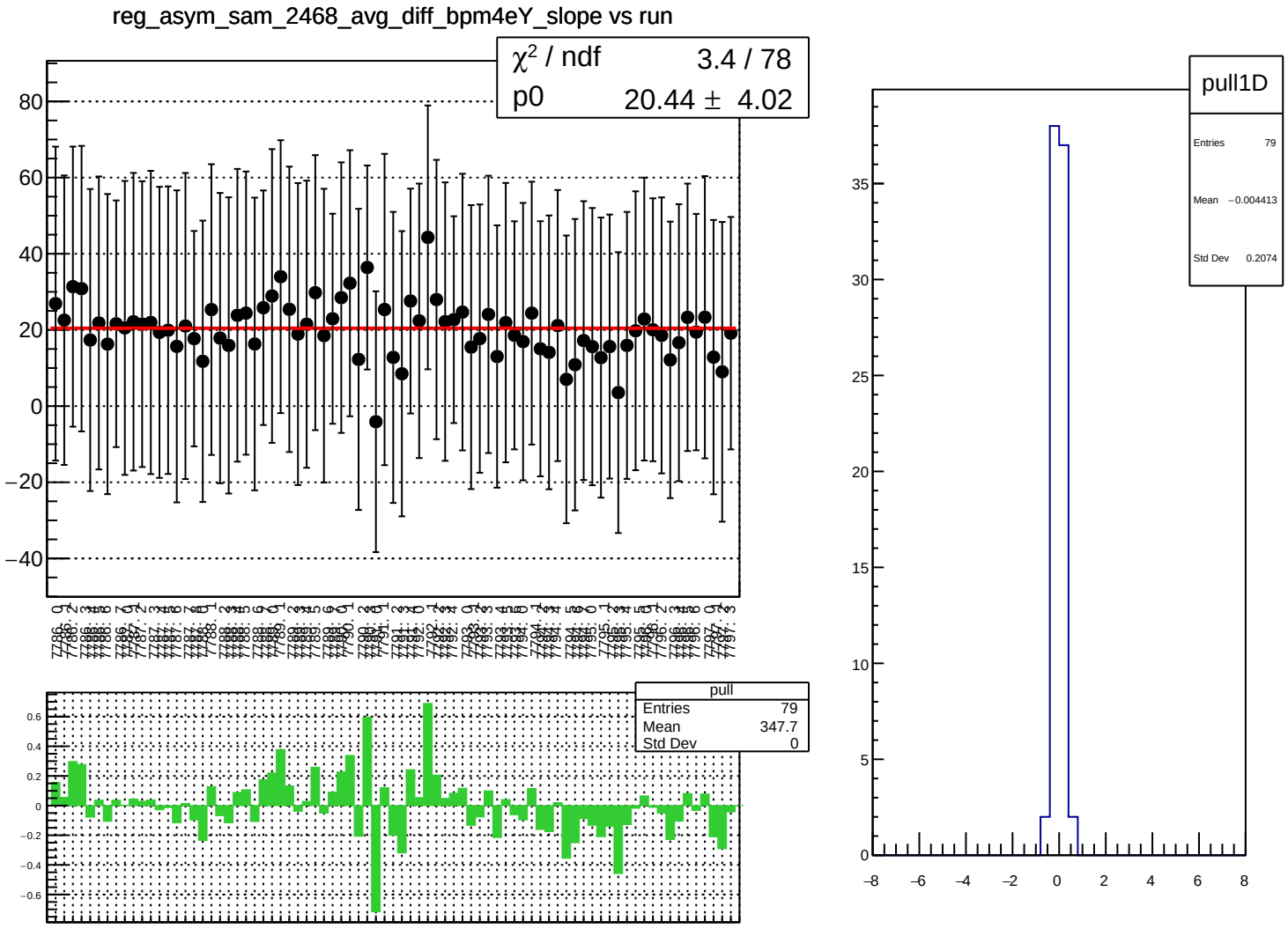

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 3.548 / 78
p0 −58.78 ± 3.493
pull
Entries 79
Mean −184
Std Dev 0

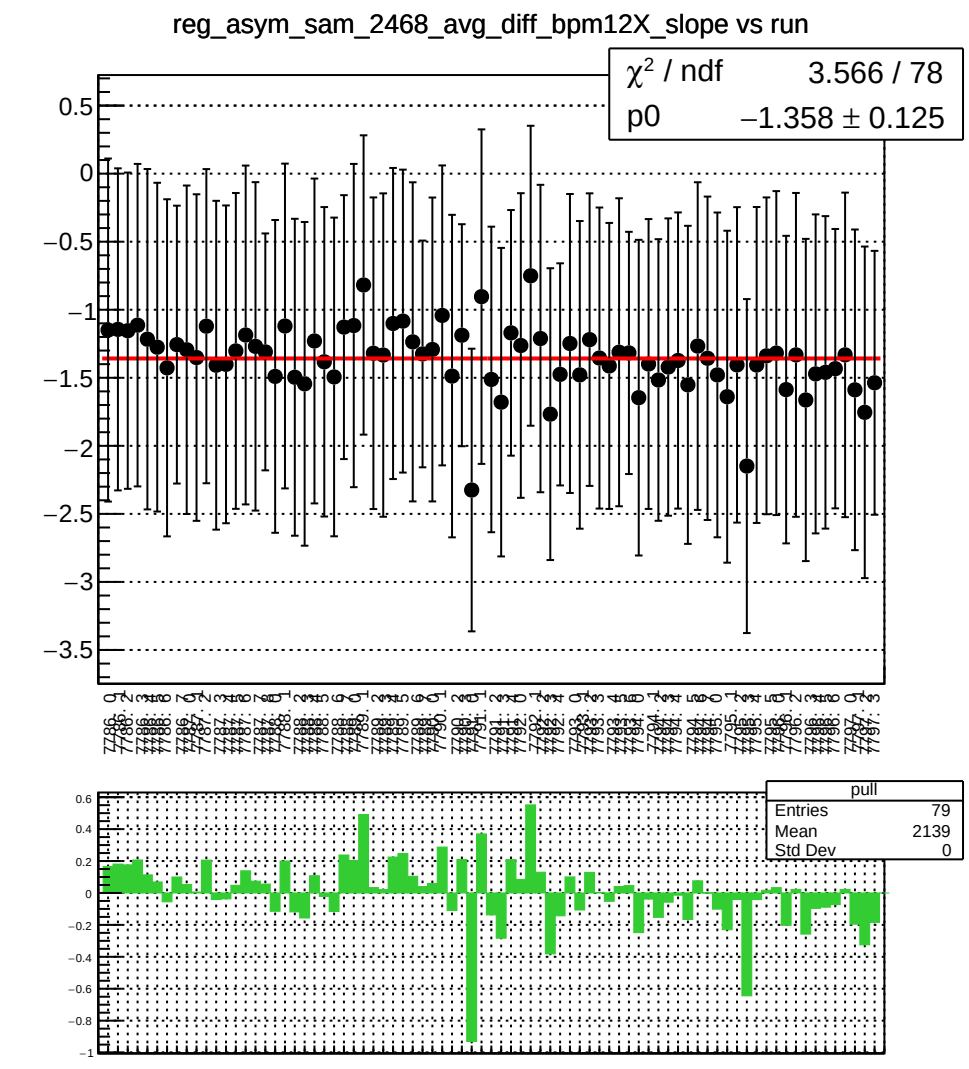

pull1D
Entries 79
Mean −0.001683
Std Dev 0.2119

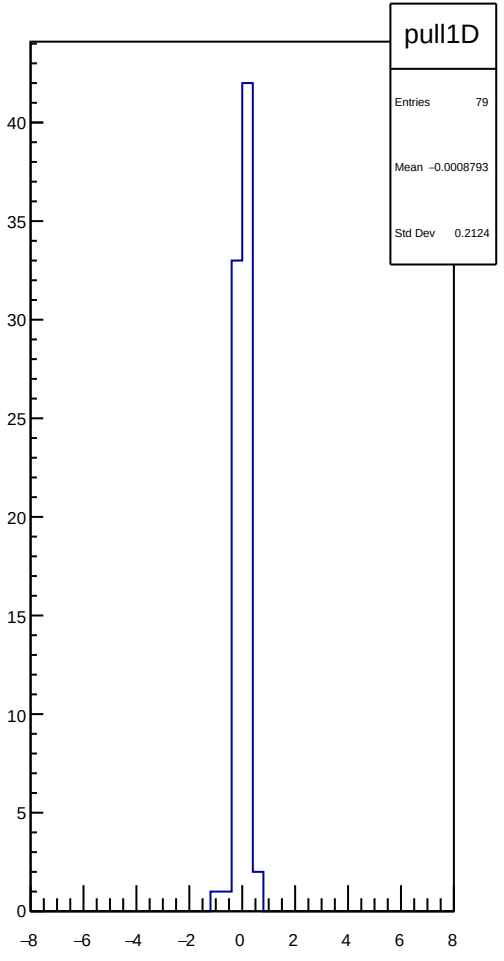

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.425 / 78
p0 16.54 ± 3.547
pull
Entries 79
Mean 334
Std Dev 0
pull1D
Entries 79
Mean 0.006175
Std Dev 0.2366

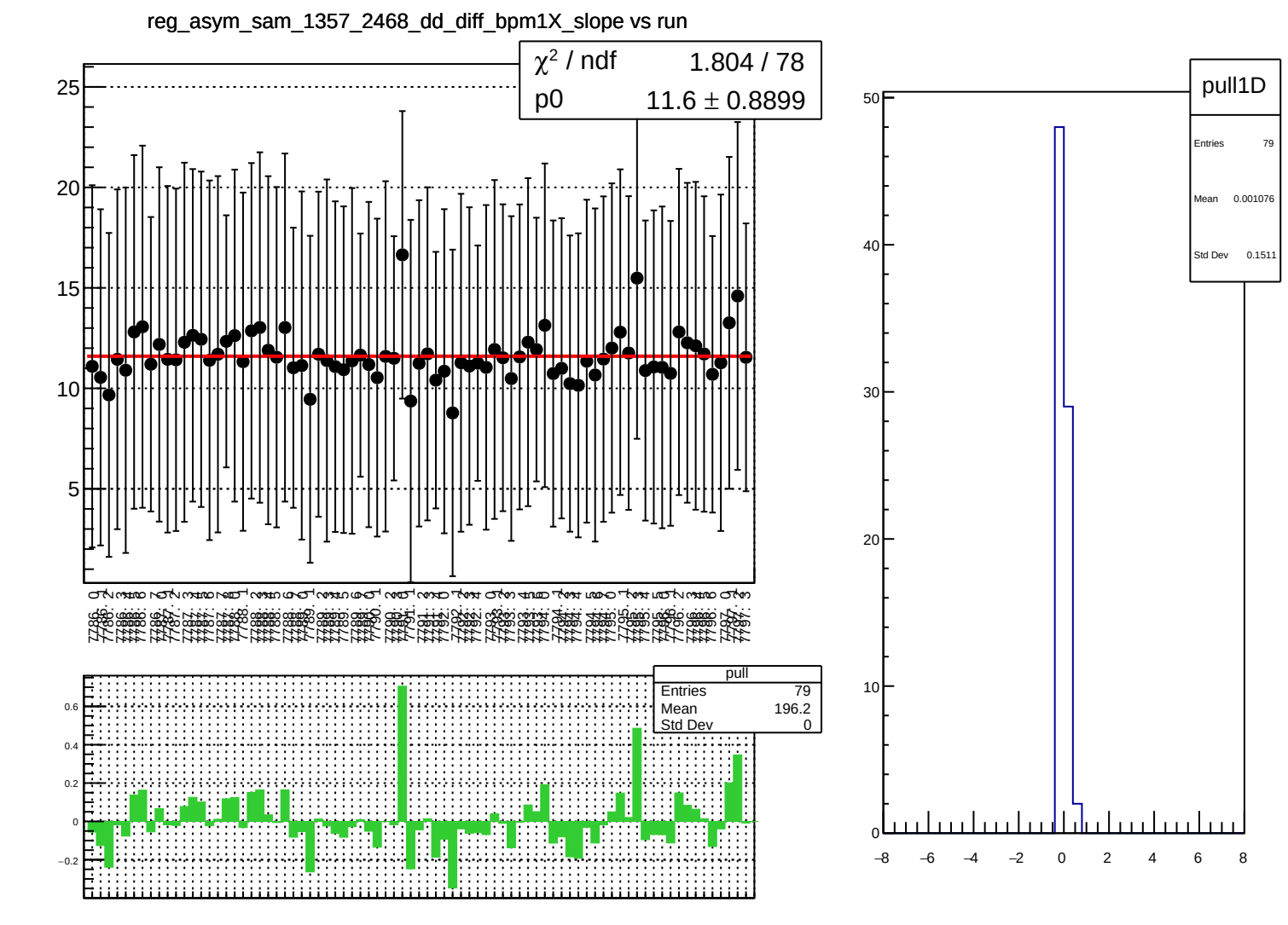

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.686 / 78
p0 −42.4 ± 3.037
pull
Entries 79
Mean −465.4
Std Dev 0

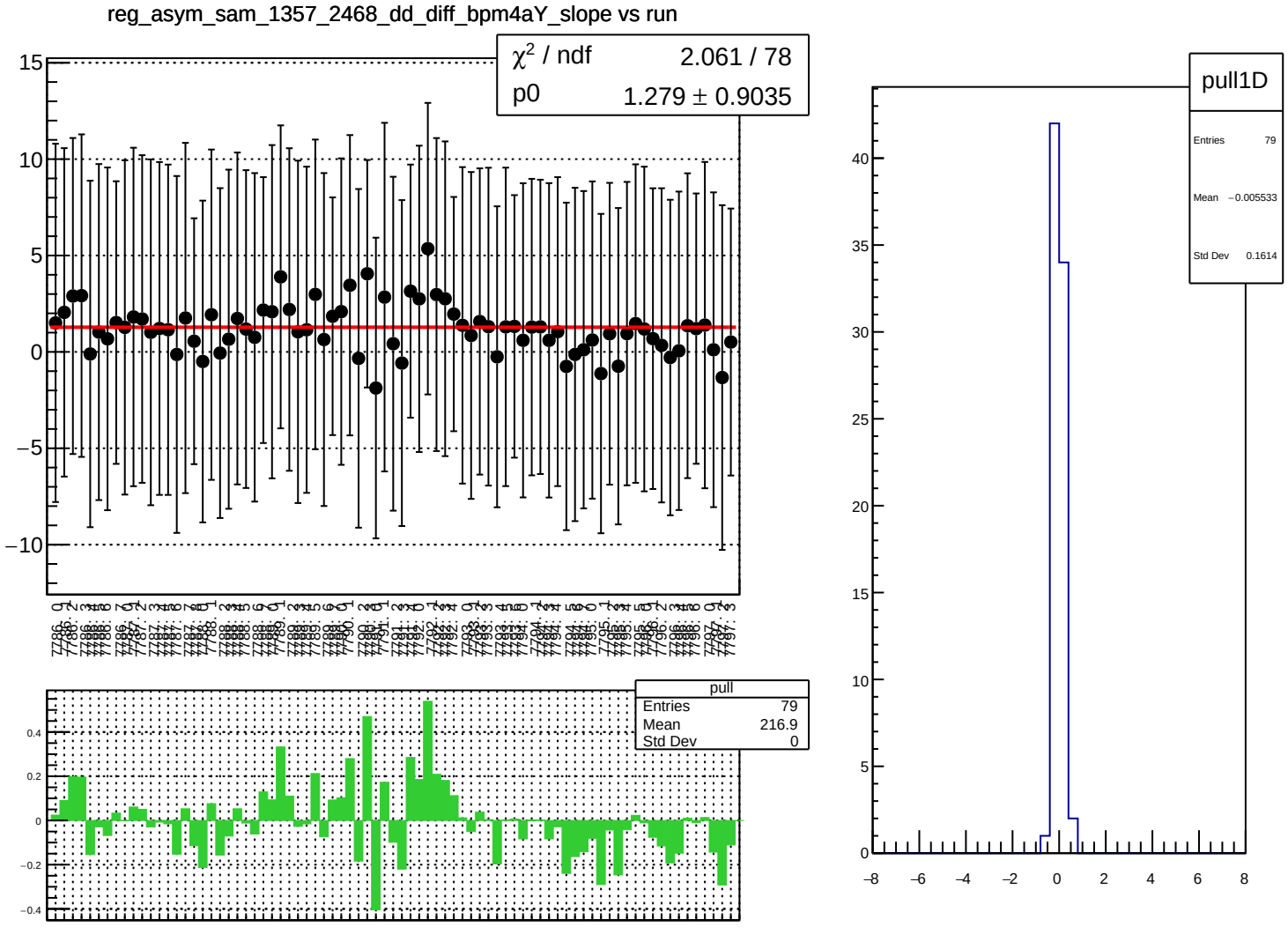

pull1D
Entries 79
Mean 0.001016
Std Dev 0.216

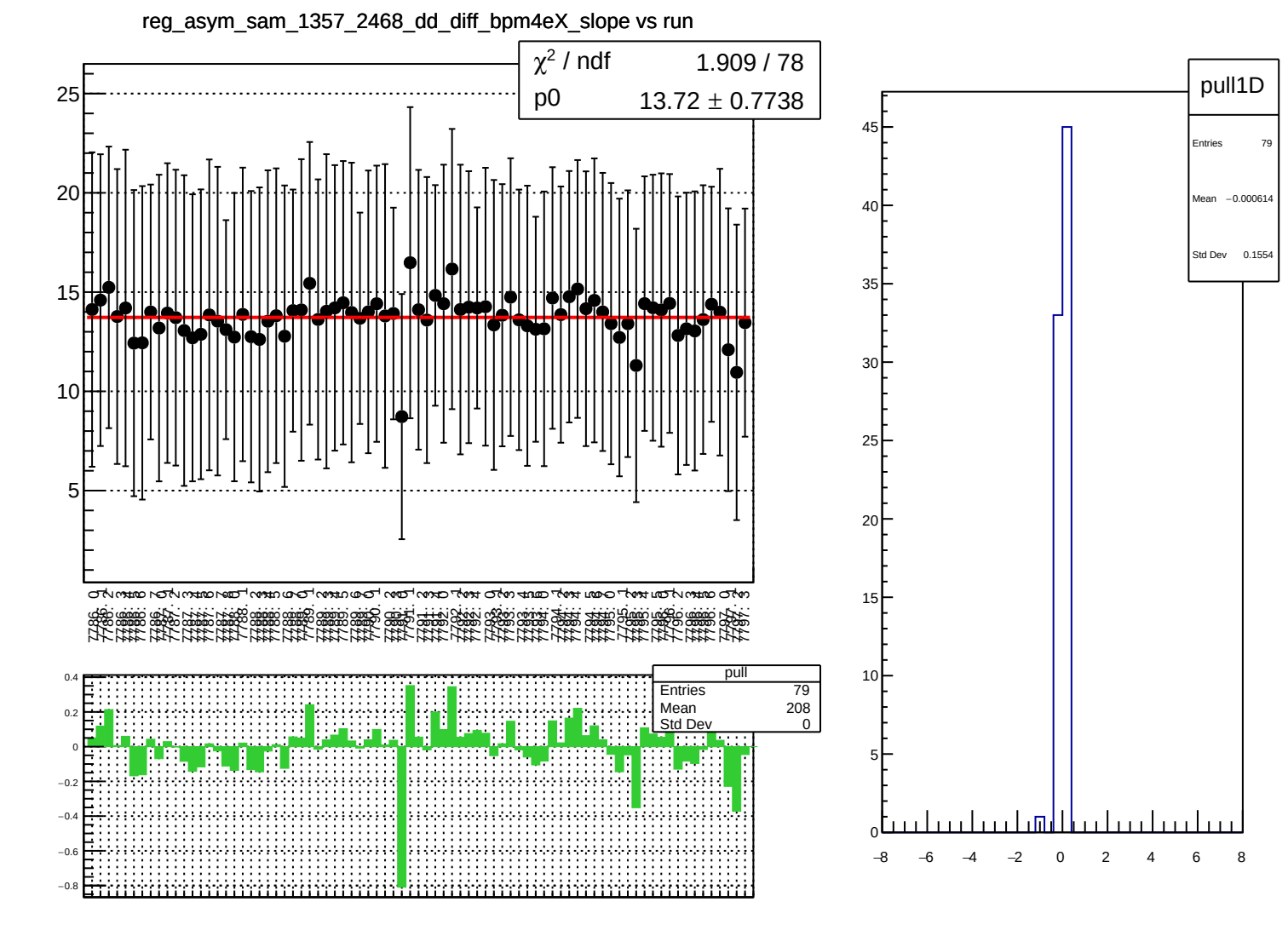

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.4 / 78
p0 20.44 ± 4.02
pull
Entries 79
Mean 347.7
Std Dev 0
pull1D
Entries 79
Mean −0.004413
Std Dev 0.2074

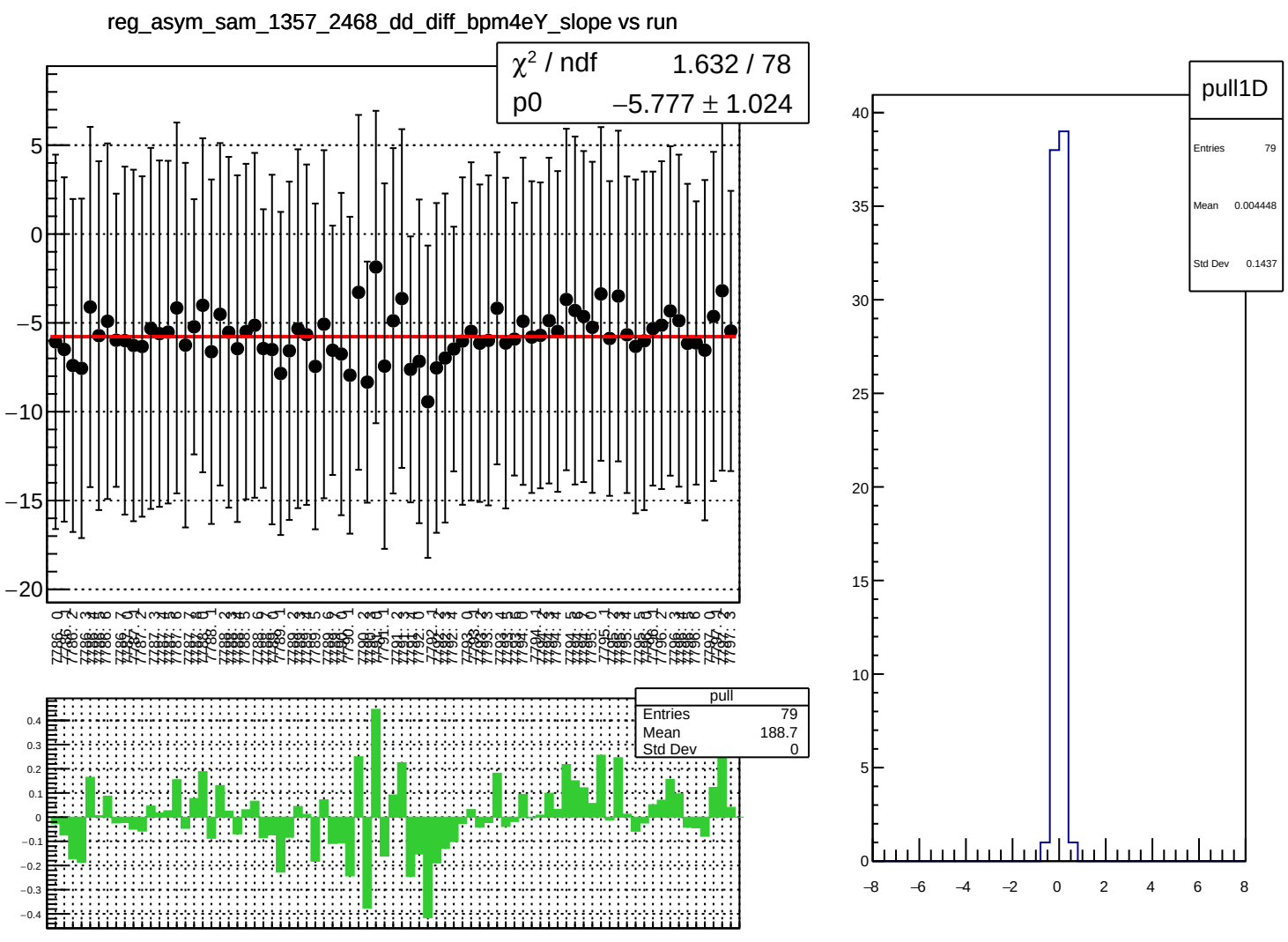

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.566 / 78
p0 −1.358 ± 0.125
pull
Entries 79
Mean 2139
Std Dev 0

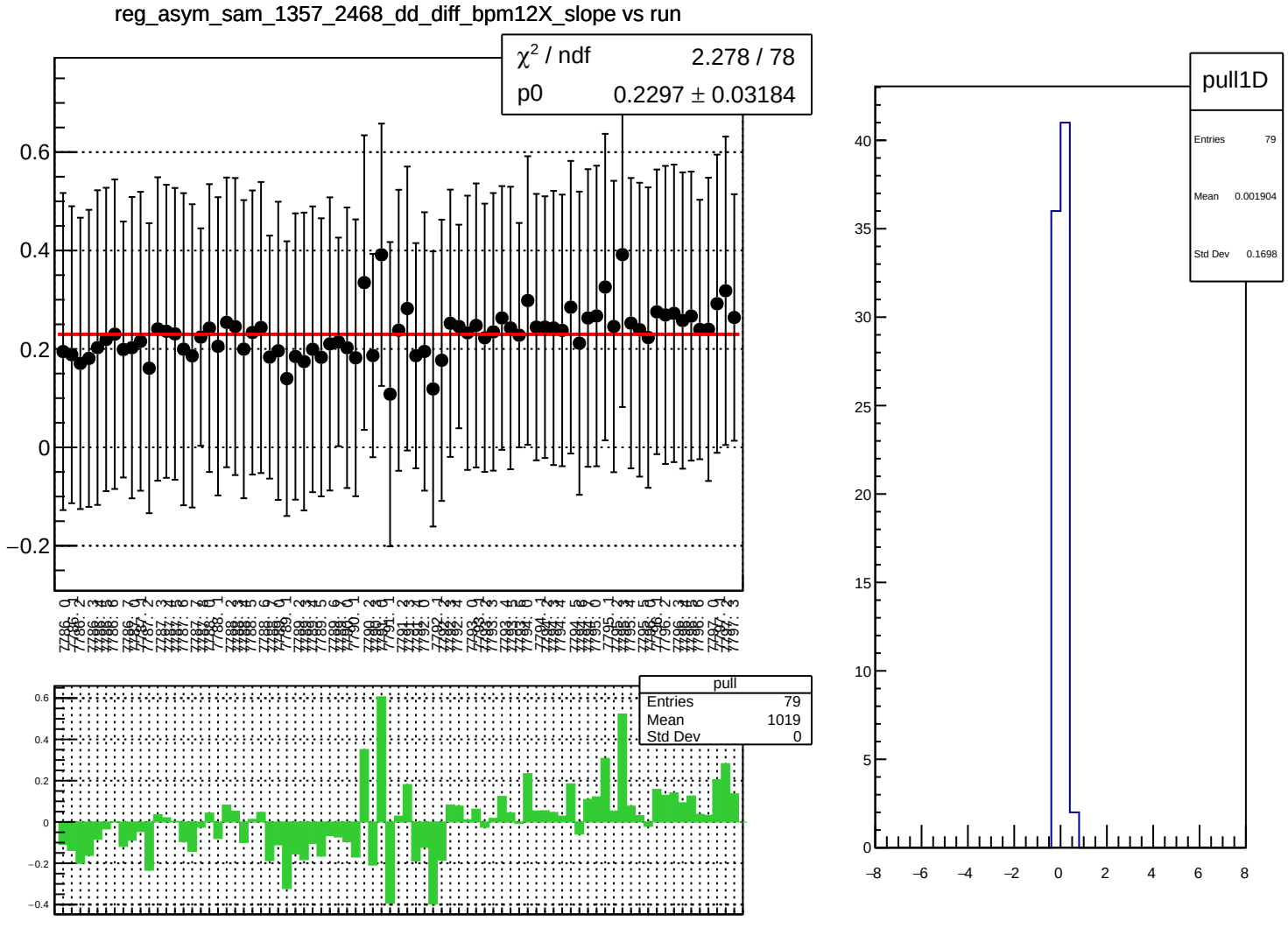

pull1D
Entries 79
Mean −0.0008793
Std Dev 0.2124

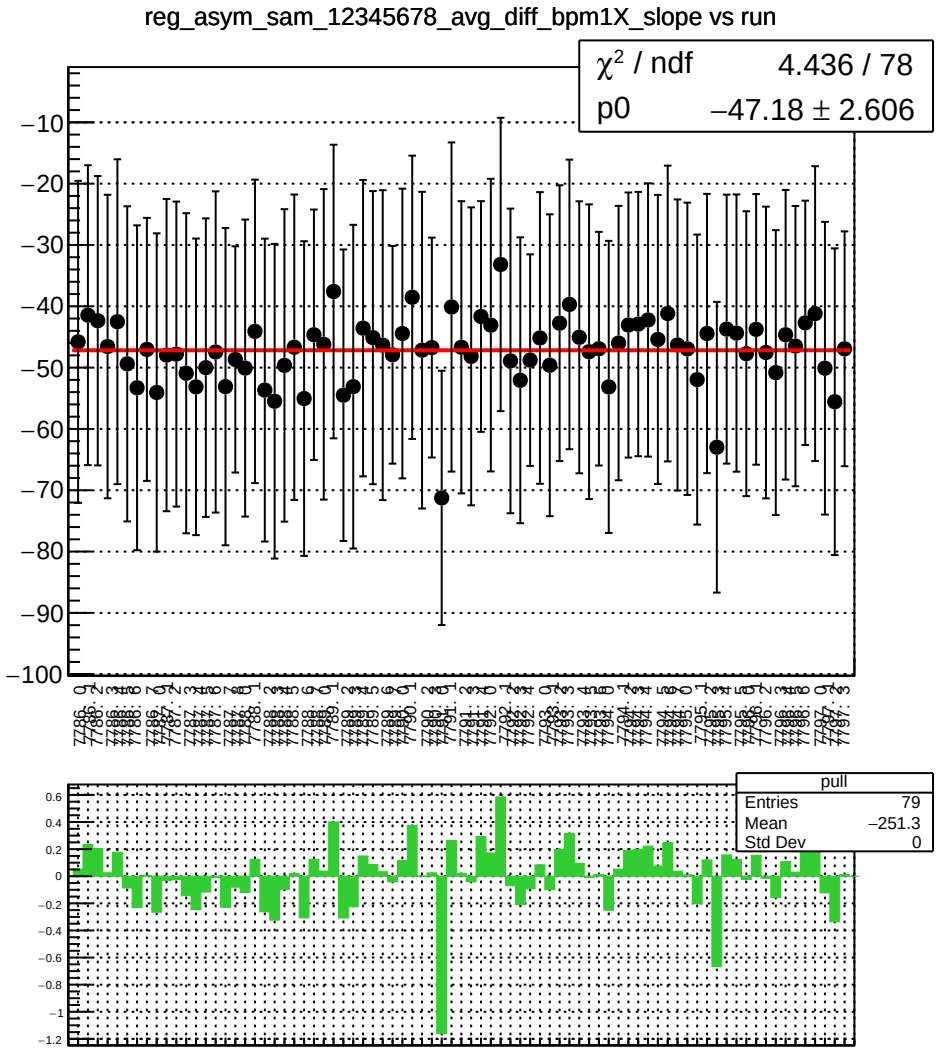

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 1.804 / 78
p0 11.6 ± 0.8899
pull
Entries 79
Mean 196.2
Std Dev 0
pull1D
Entries 79
Mean 0.001076
Std Dev 0.1511

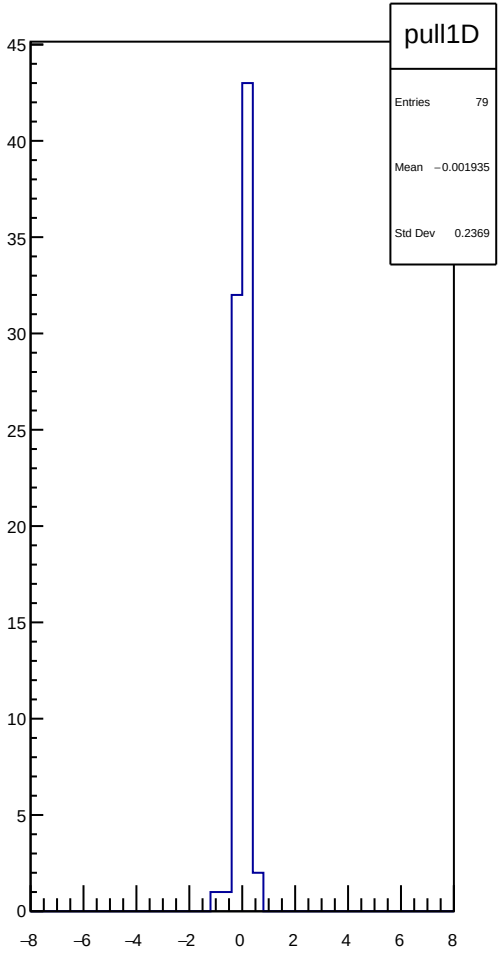

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.061 / 78
p0 1.279 ± 0.9035
pull
Entries 79
Mean 216.9
Std Dev 0
pull1D
Entries 79
Mean −0.005533
Std Dev 0.1614

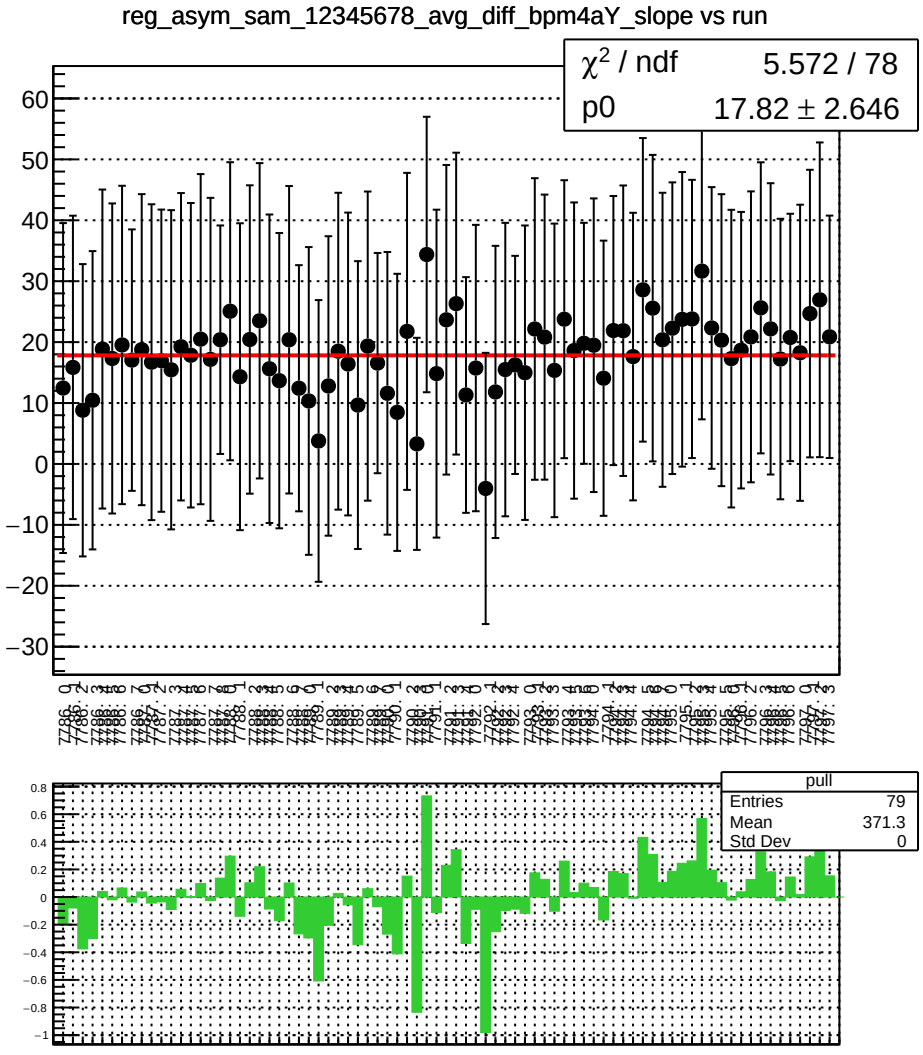

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.909 / 78
p0 13.72 ± 0.7738
pull
Entries 79
Mean 208
Std Dev 0
pull1D
Entries 79
Mean −0.000614
Std Dev 0.1554

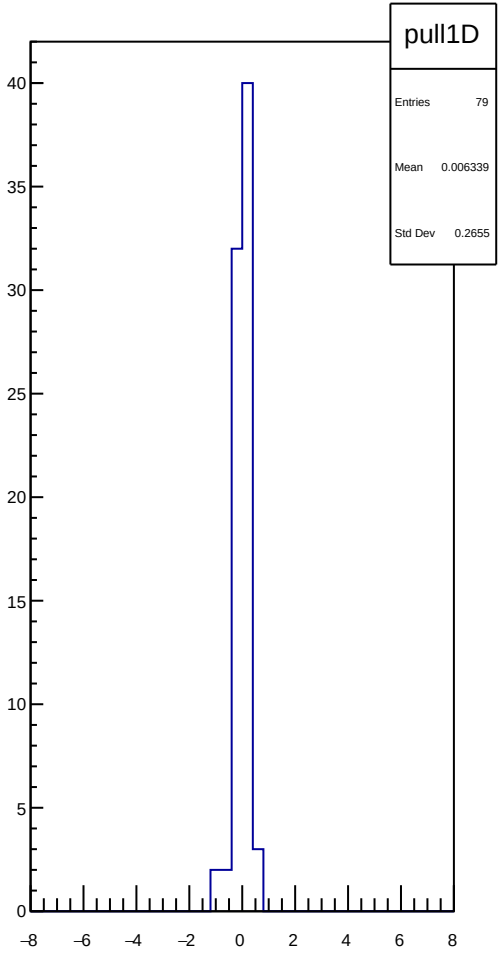

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.632 / 78
p0 −5.777 ± 1.024
pull
Entries 79
Mean 188.7
Std Dev 0
pull1D
Entries 79
Mean 0.004448
Std Dev 0.1437

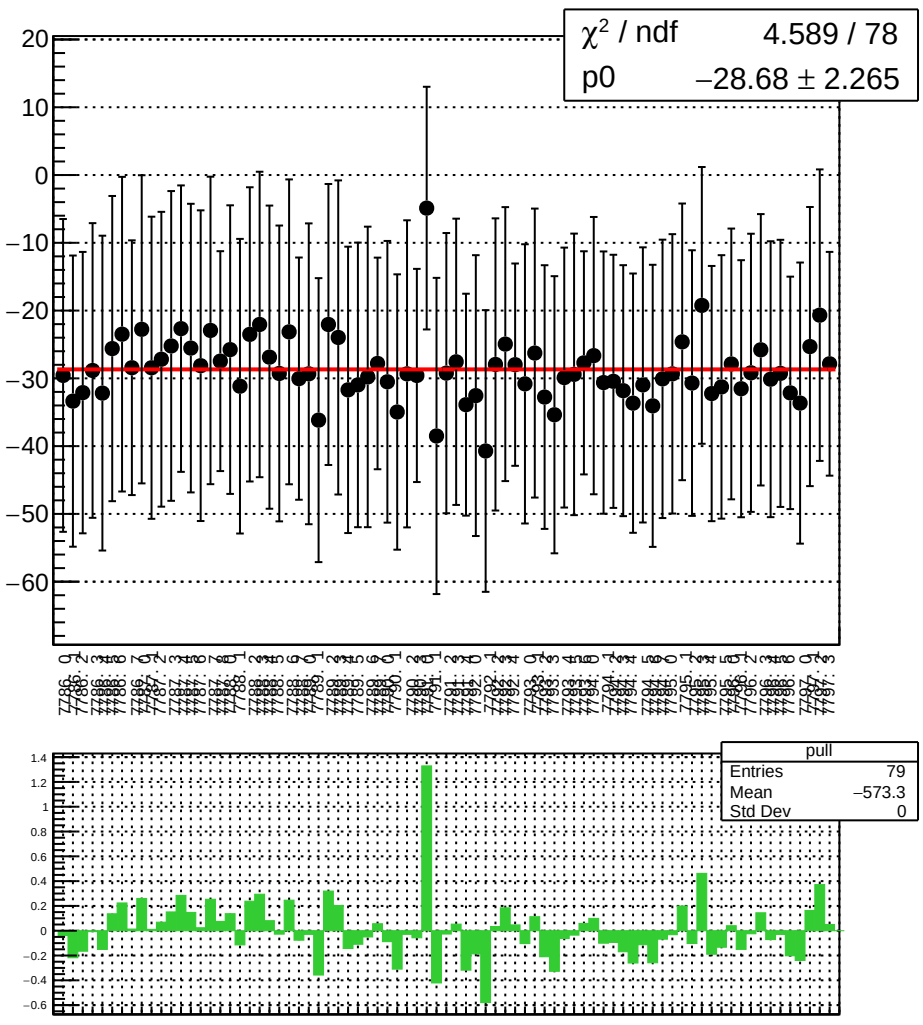

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 2.278 / 78
p0 0.2297 ± 0.03184
pull
Entries 79
Mean 1019
Std Dev 0
pull1D
Entries 79
Mean 0.001904
Std Dev 0.1698

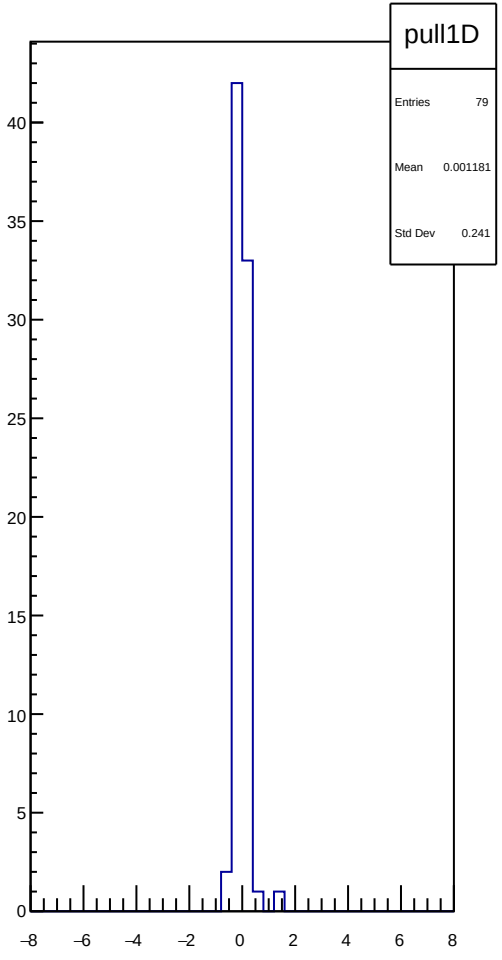

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 4.436 / 78
p0 −47.18 ± 2.606
pull
Entries 79
Mean −251.3
Std Dev 0

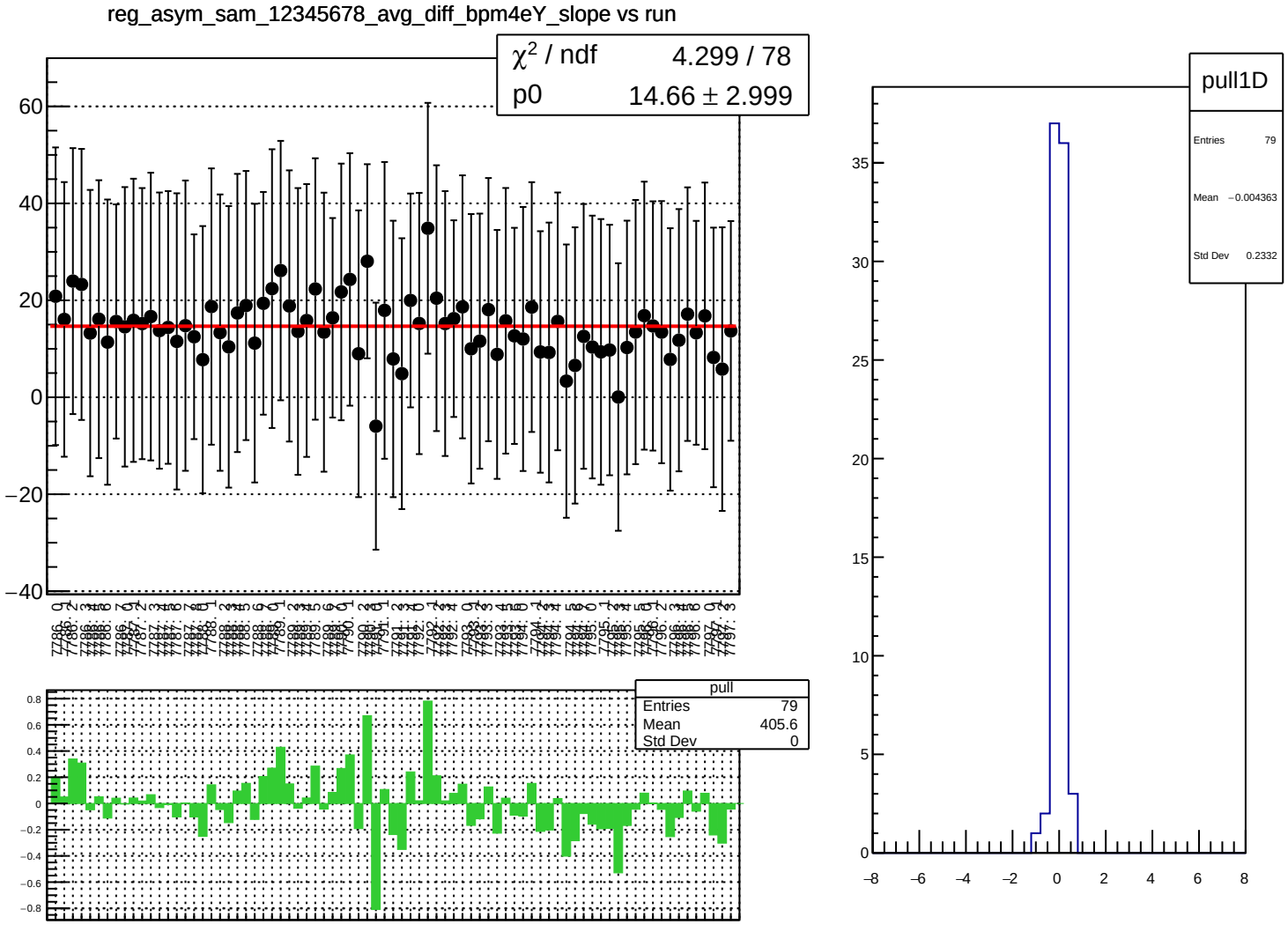

pull1D
Entries 79
Mean −0.001935
Std Dev 0.2369

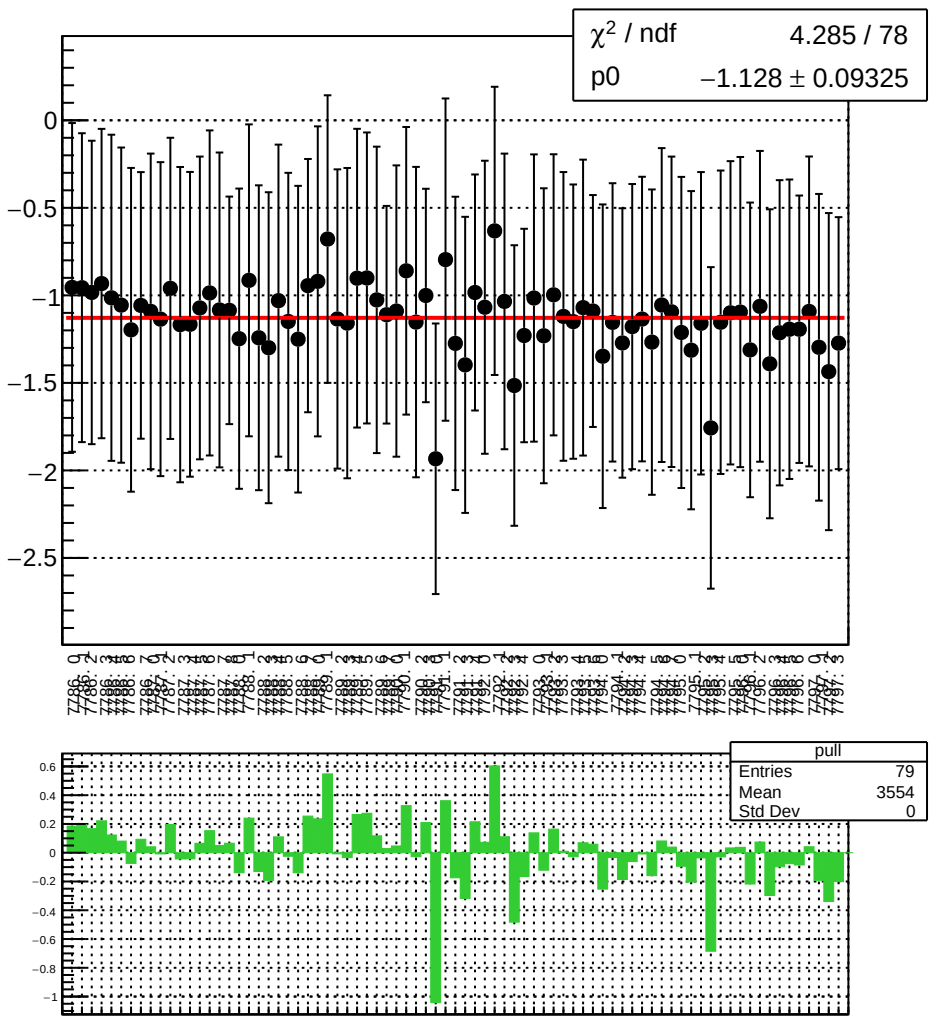

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 5.572 / 78
p0 17.82 ± 2.646
pull
Entries 79
Mean 371.3
Std Dev 0

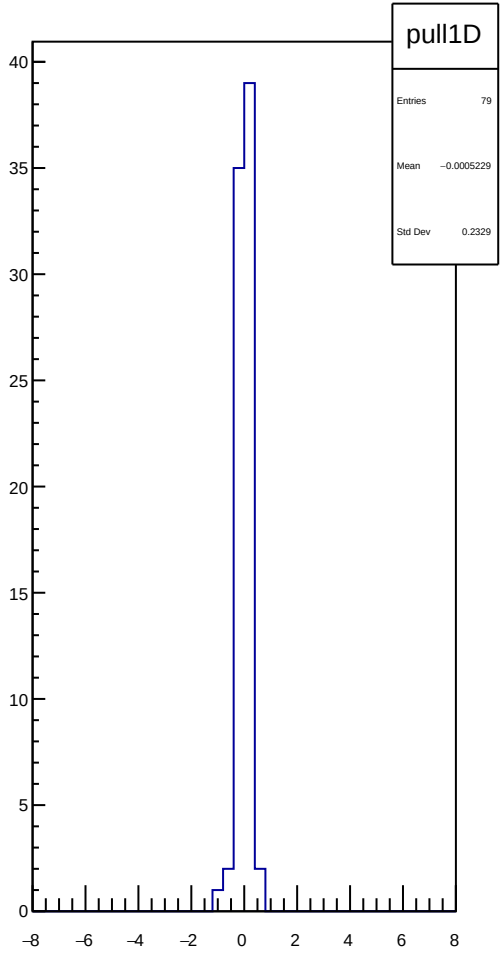

pull1D
Entries 79
Mean 0.006339
Std Dev 0.2655

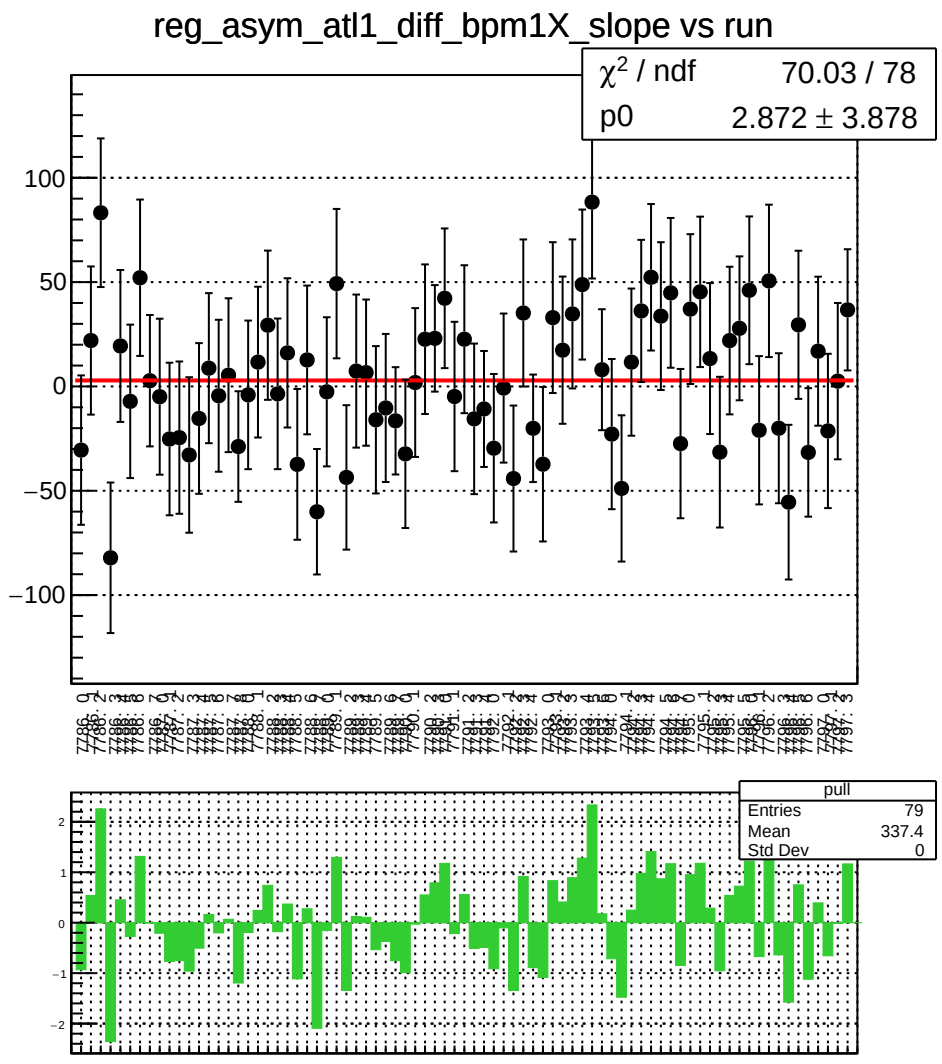

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.589 / 78
p0 −28.68 ± 2.265
pull
Entries 79
Mean −573.3
Std Dev 0

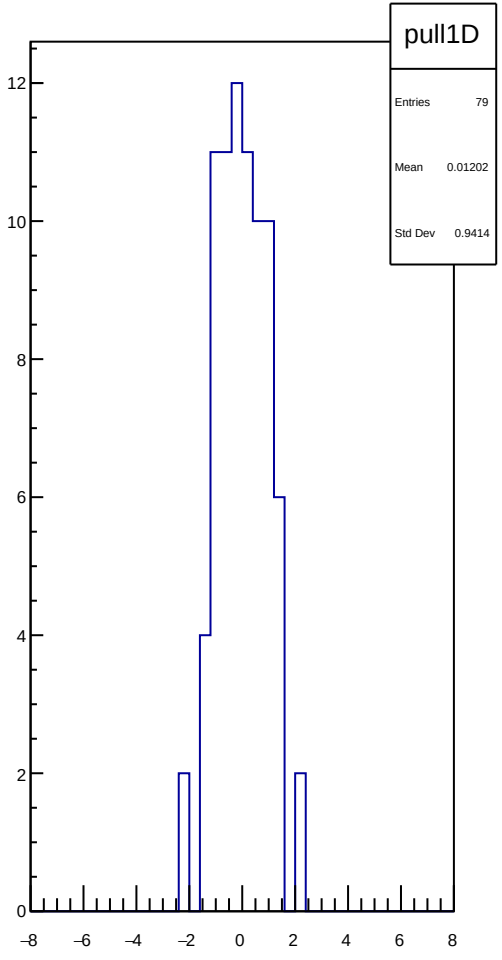

pull1D
Entries 79
Mean 0.001181
Std Dev 0.241

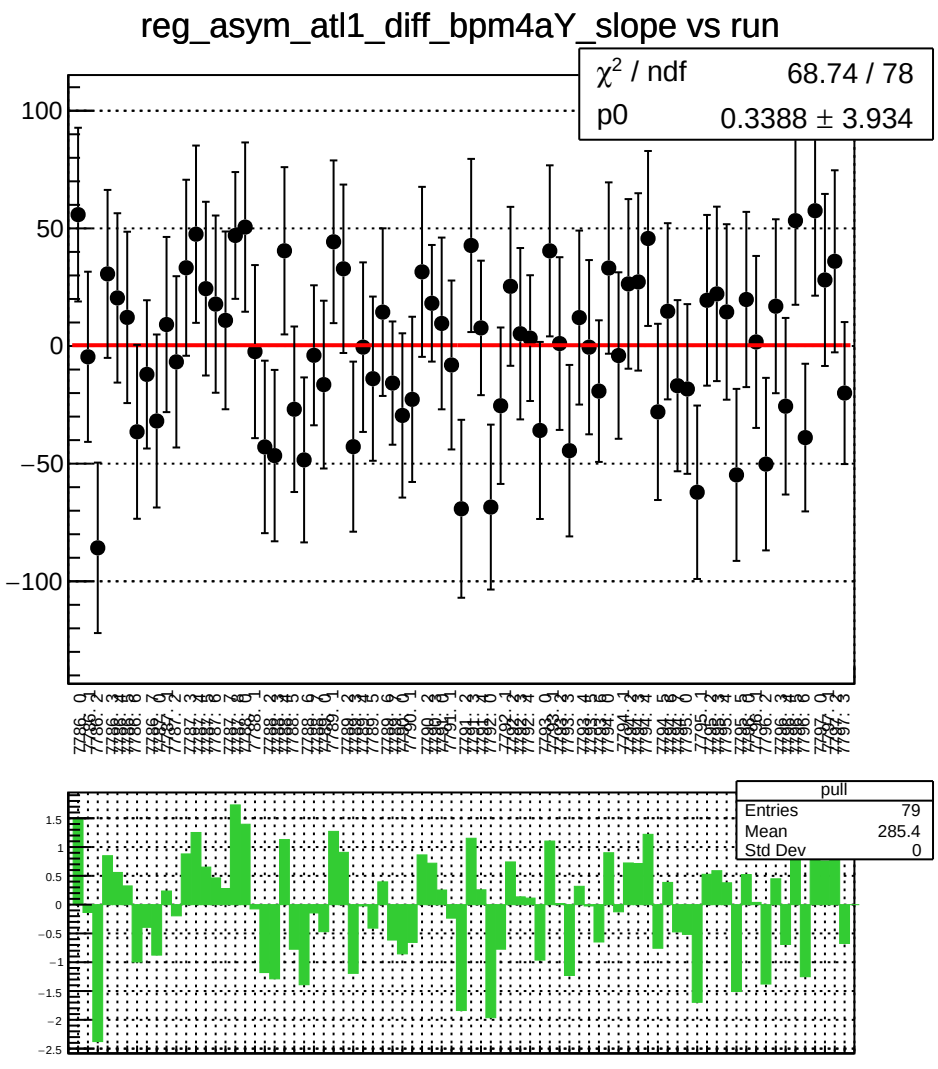

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.299 / 78
p0 14.66 ± 2.999
pull
Entries 79
Mean 405.6
Std Dev 0
pull1D
Entries 79
Mean −0.004363
Std Dev 0.2332

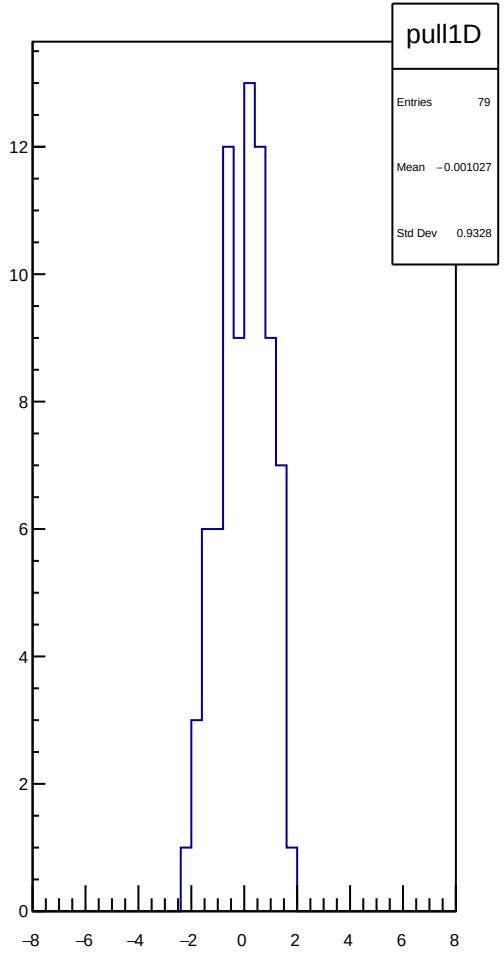

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 4.285 / 78
p0 −1.128 ± 0.09325
pull
Entries 79
Mean 3554
Std Dev 0

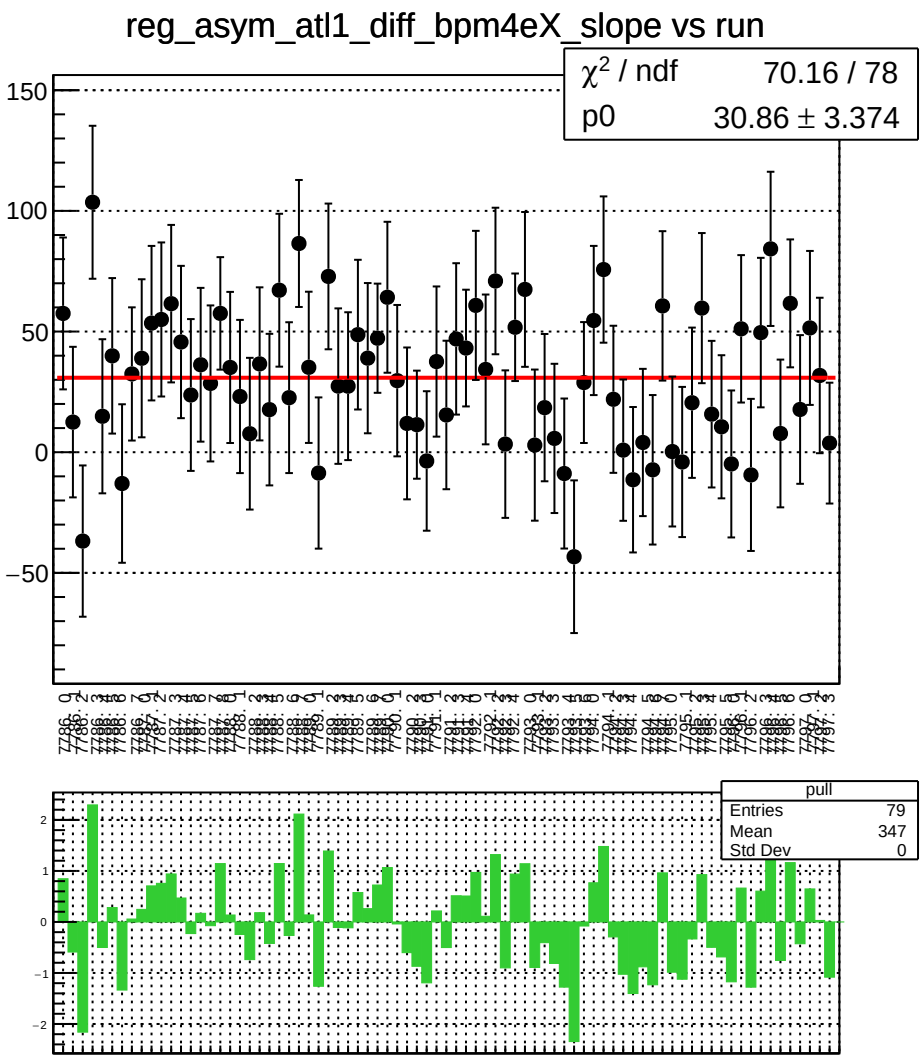

pull1D
Entries 79
Mean −0.0005229
Std Dev 0.2329

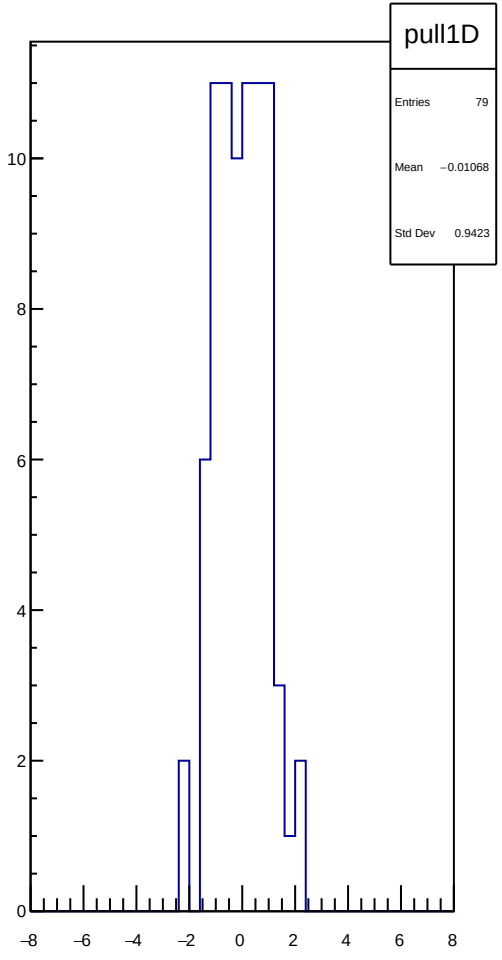

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 70.03 / 78
p0 2.872 ± 3.878
100
50
0
−50
−100
pull
Entries 79
Mean 337.4
Std Dev 0
2
1
0
−1
−2

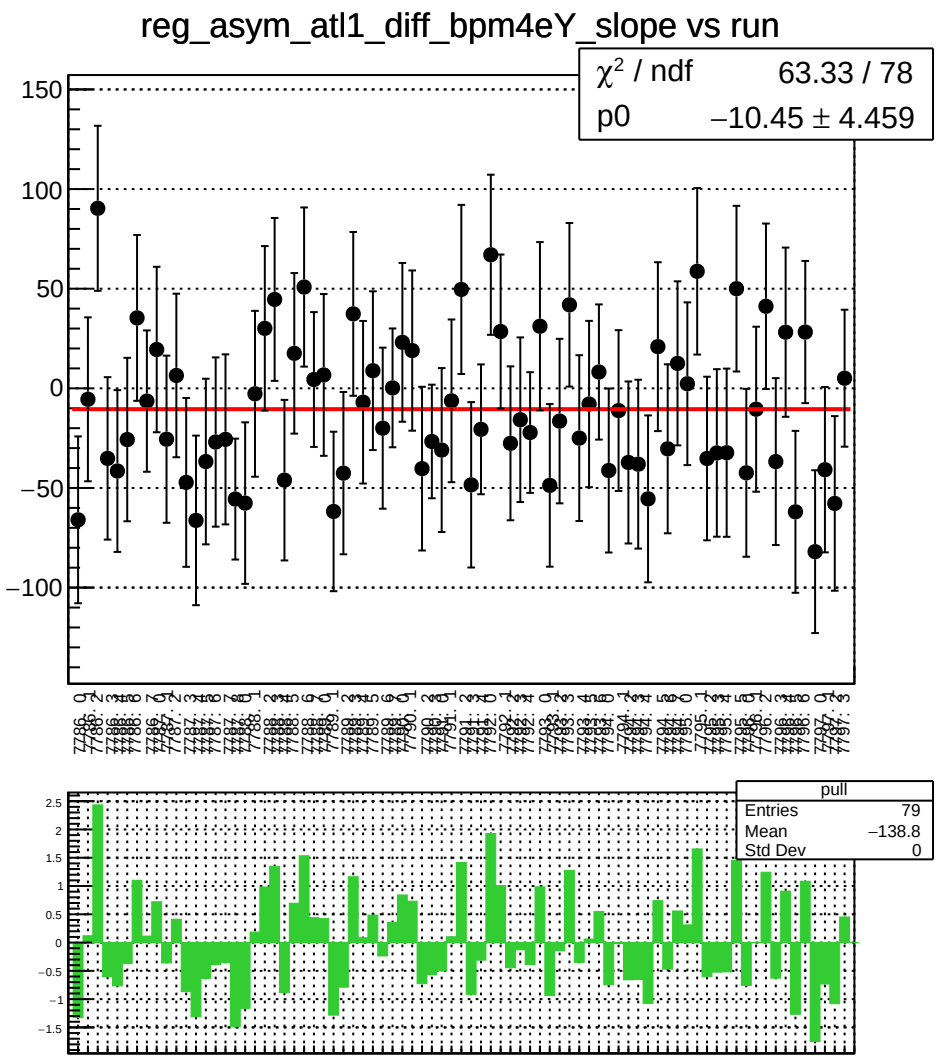

pull1D
Entries 79
Mean 0.01202
Std Dev 0.9414
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

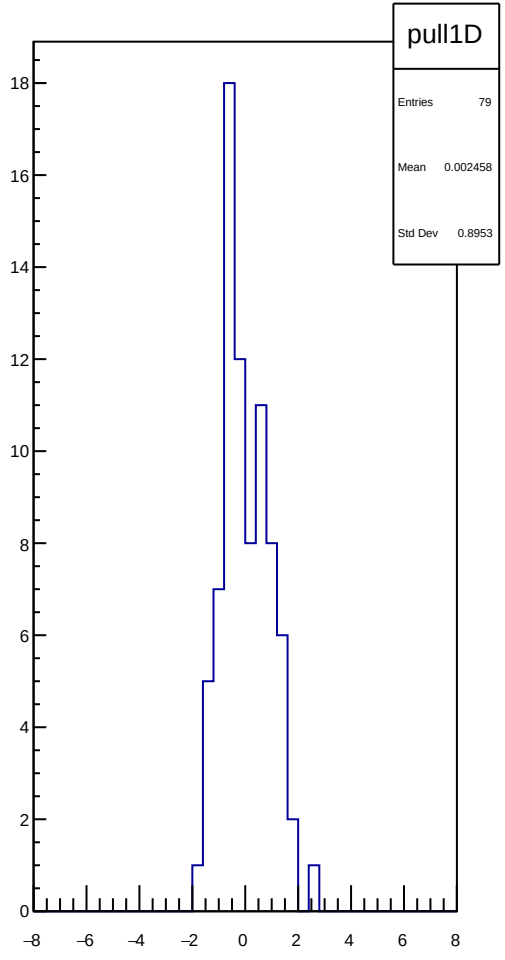

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 68.74 / 78
p0 0.3388 ± 3.934
100
50
0
−50
−100
pull
Entries 79
Mean 285.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

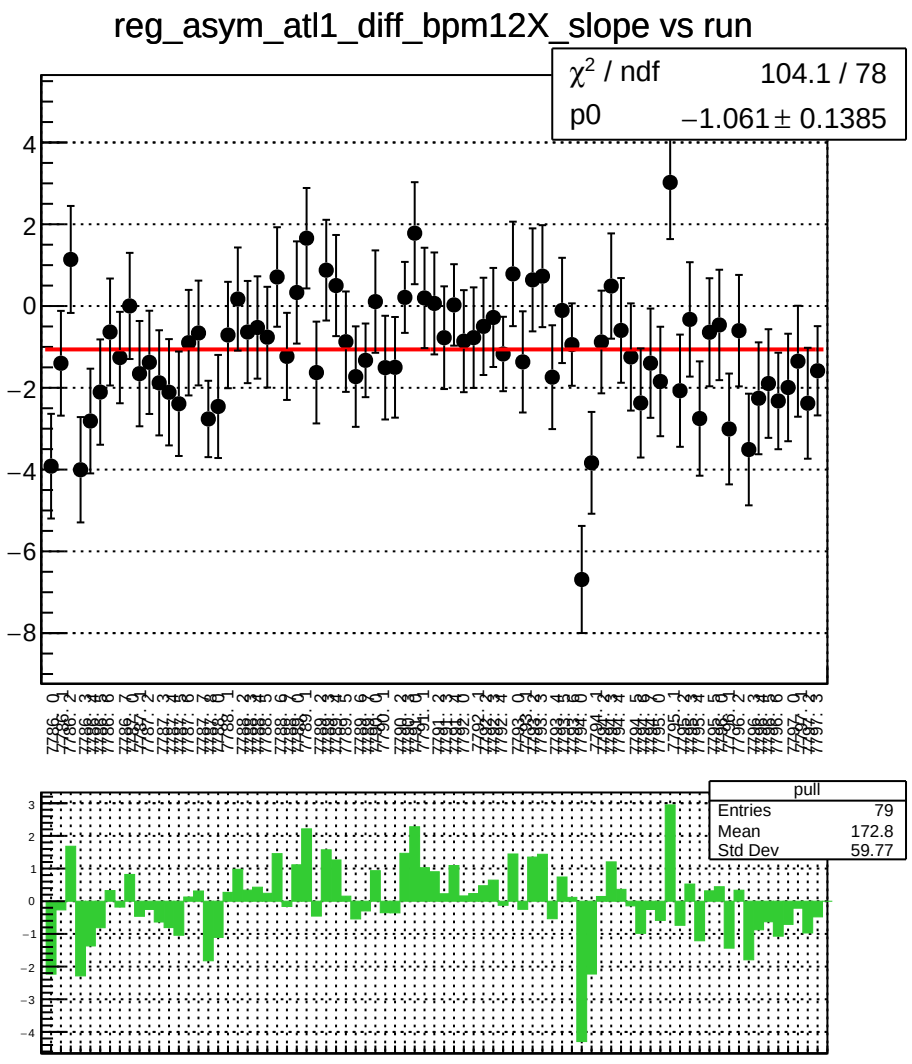

pull1D
Entries 79
Mean −0.001027
Std Dev 0.9328
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

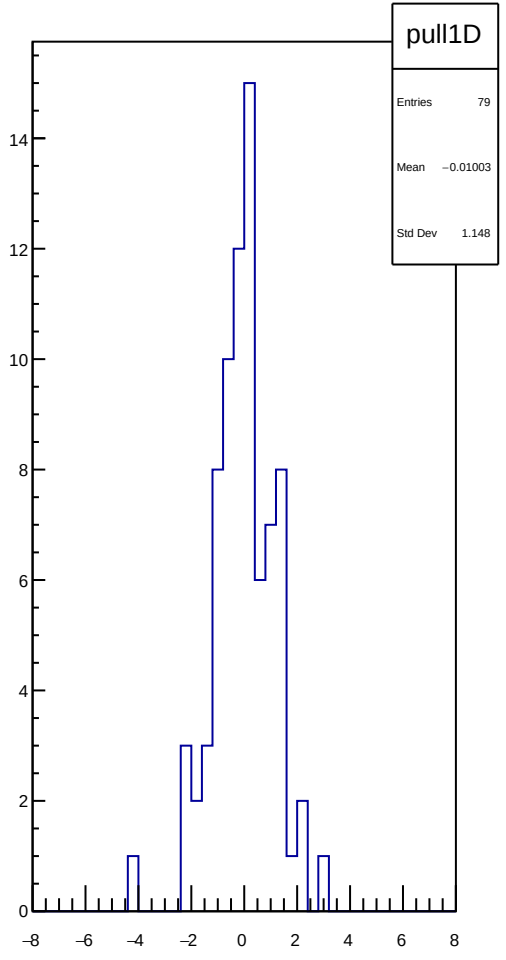

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 70.16 / 78
p0 30.86 ± 3.374
150
100
50
0
−50
pull
Entries 79
Mean 347
Std Dev 0
2
1
0
−1
−2

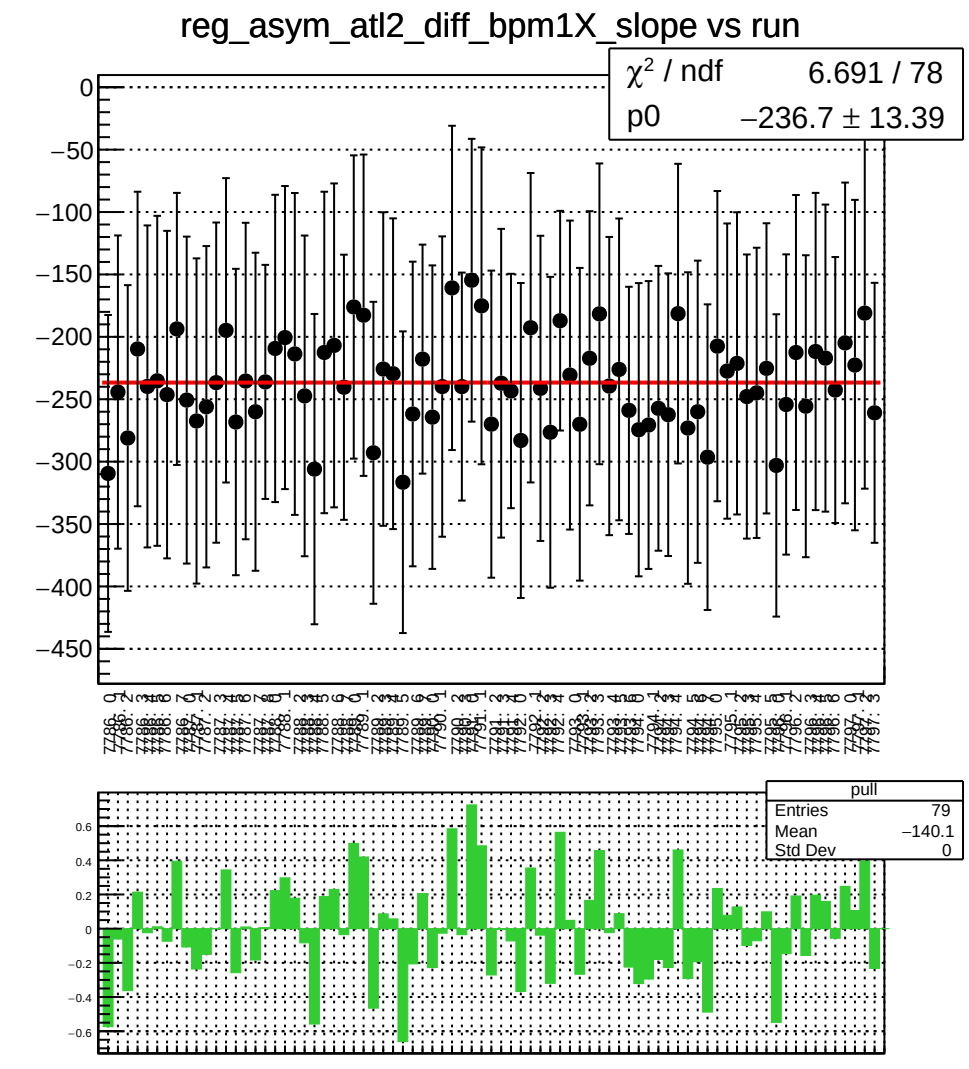

pull1D
Entries 79
Mean −0.01068
Std Dev 0.9423
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

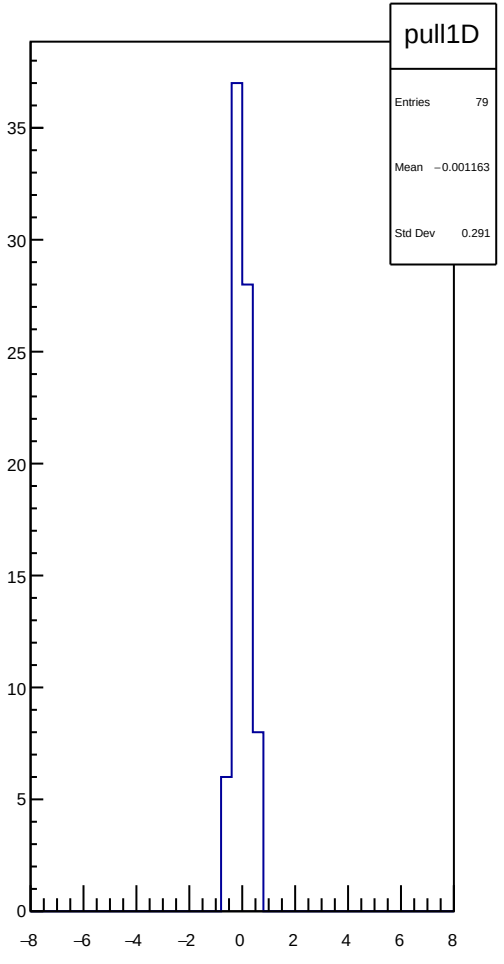

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 63.33 / 78
p0 −10.45 ± 4.459
150
100
50
0
−50
−100
pull
Entries 79
Mean −138.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

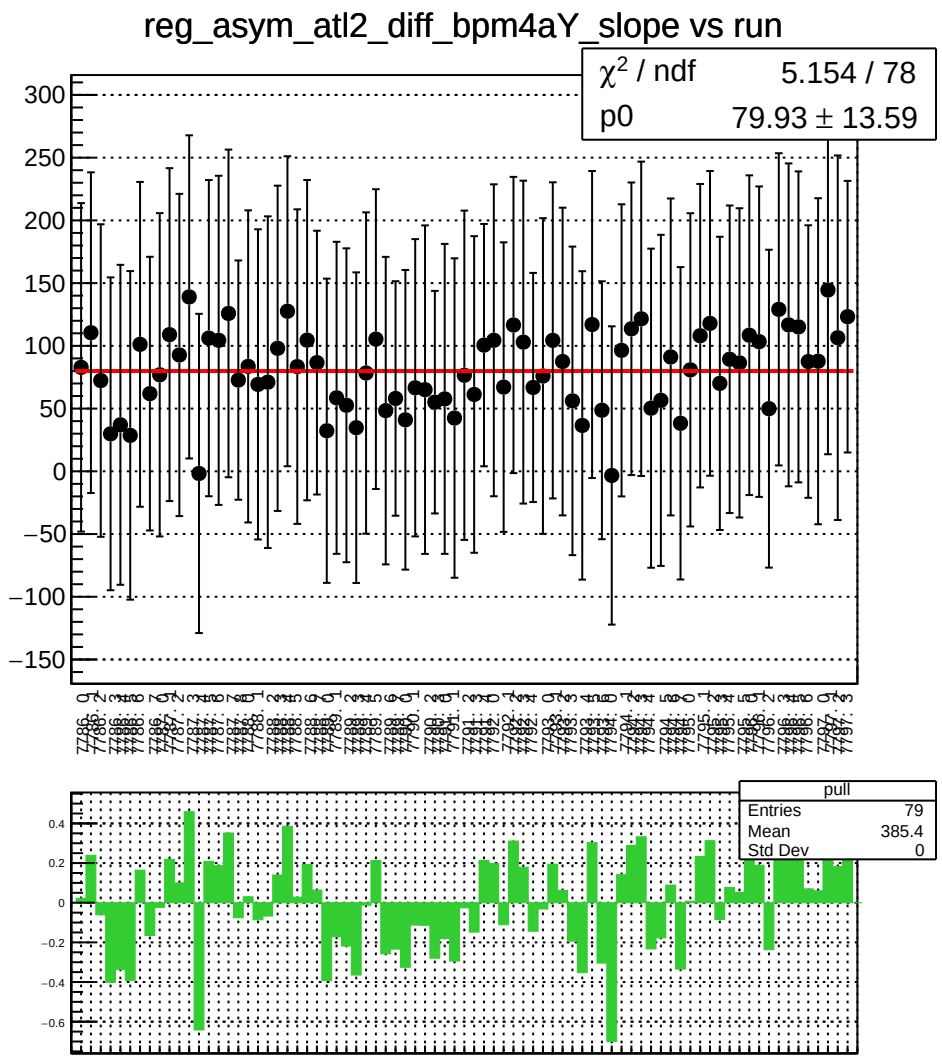

pull1D
Entries 79
Mean 0.002458
Std Dev 0.8953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

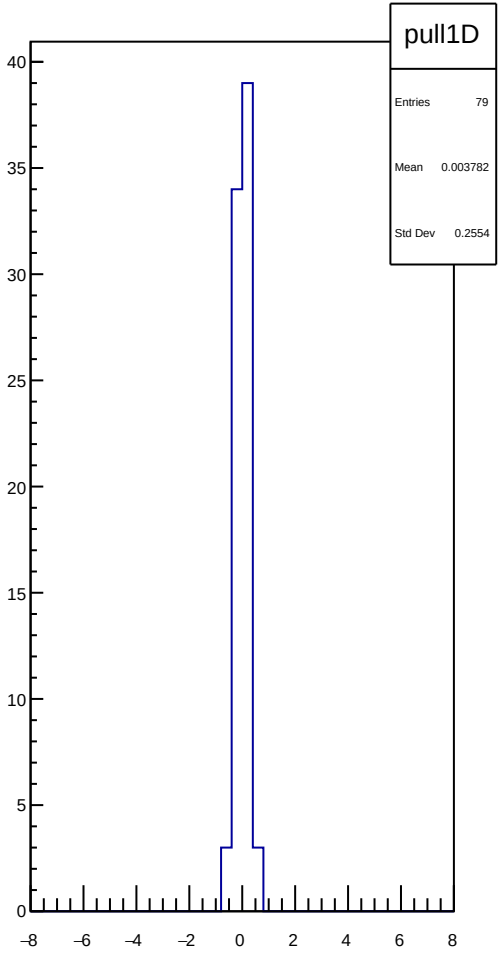

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 104.1 / 78
p0 −1.061 ± 0.1385
pull
Entries 79
Mean 172.8
Std Dev 59.77

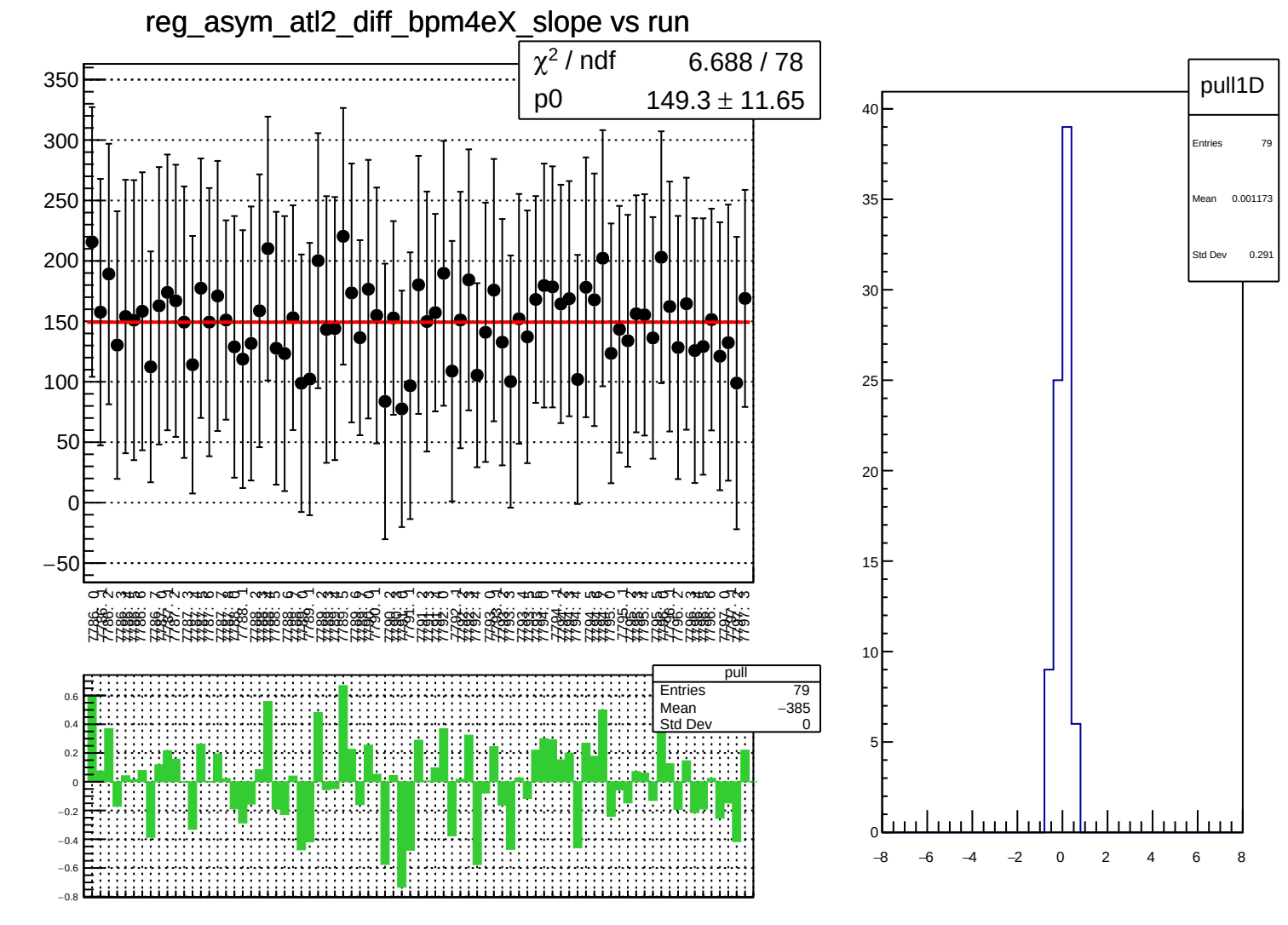

pull1D
Entries 79
Mean −0.01003
Std Dev 1.148

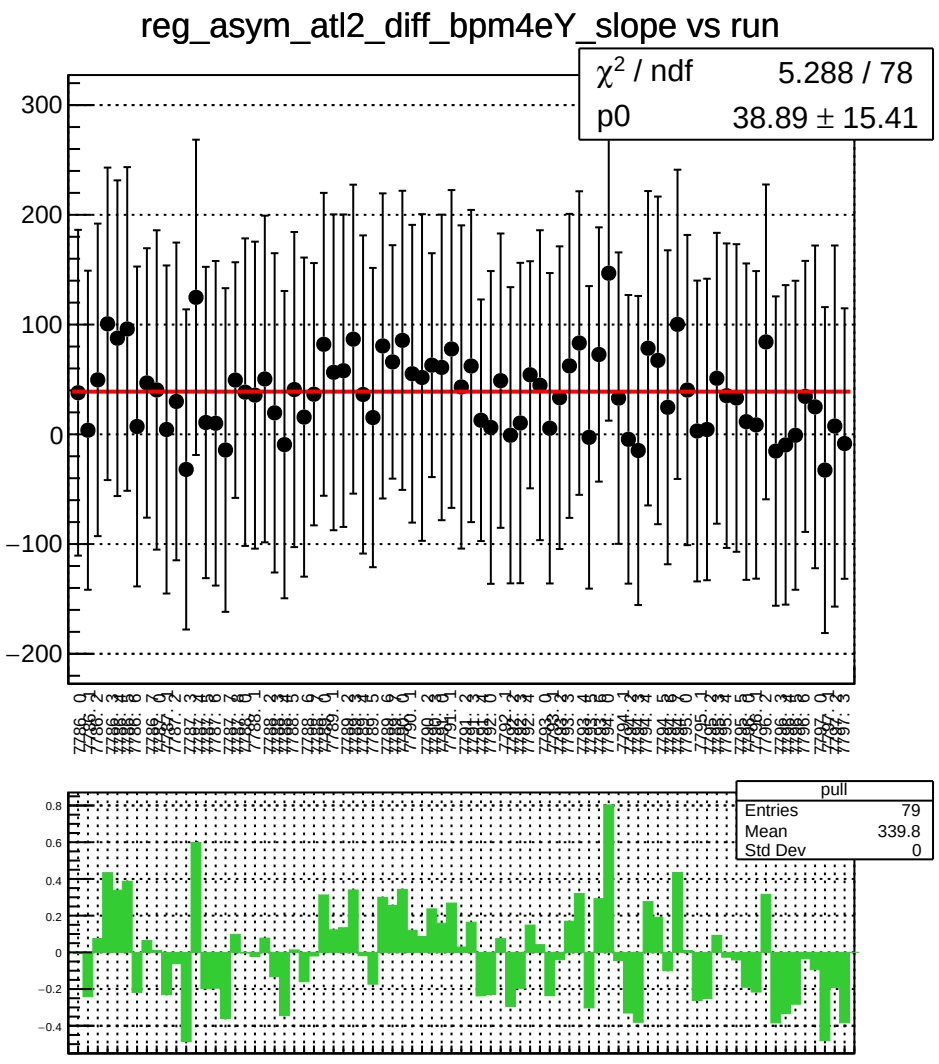

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 6.691 / 78
p0 −236.7 ± 13.39
pull
Entries 79
Mean −140.1
Std Dev 0

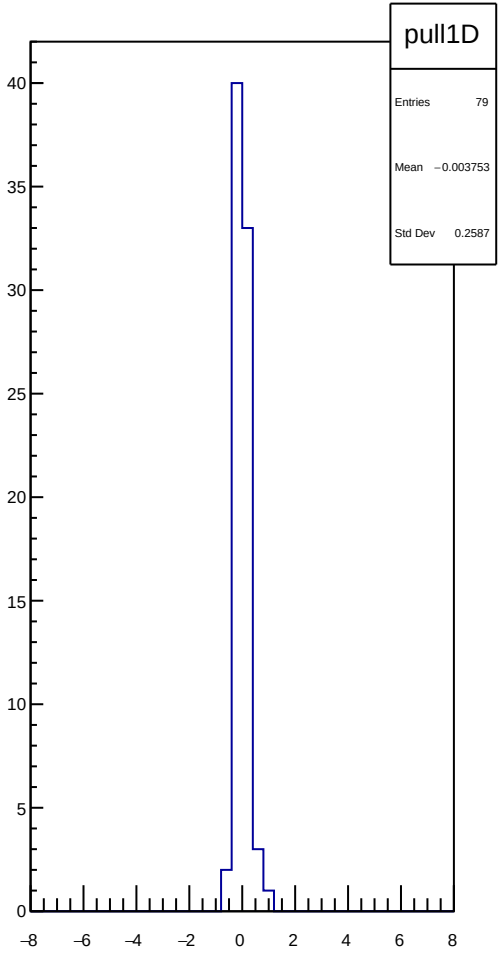

pull1D
Entries 79
Mean −0.001163
Std Dev 0.291

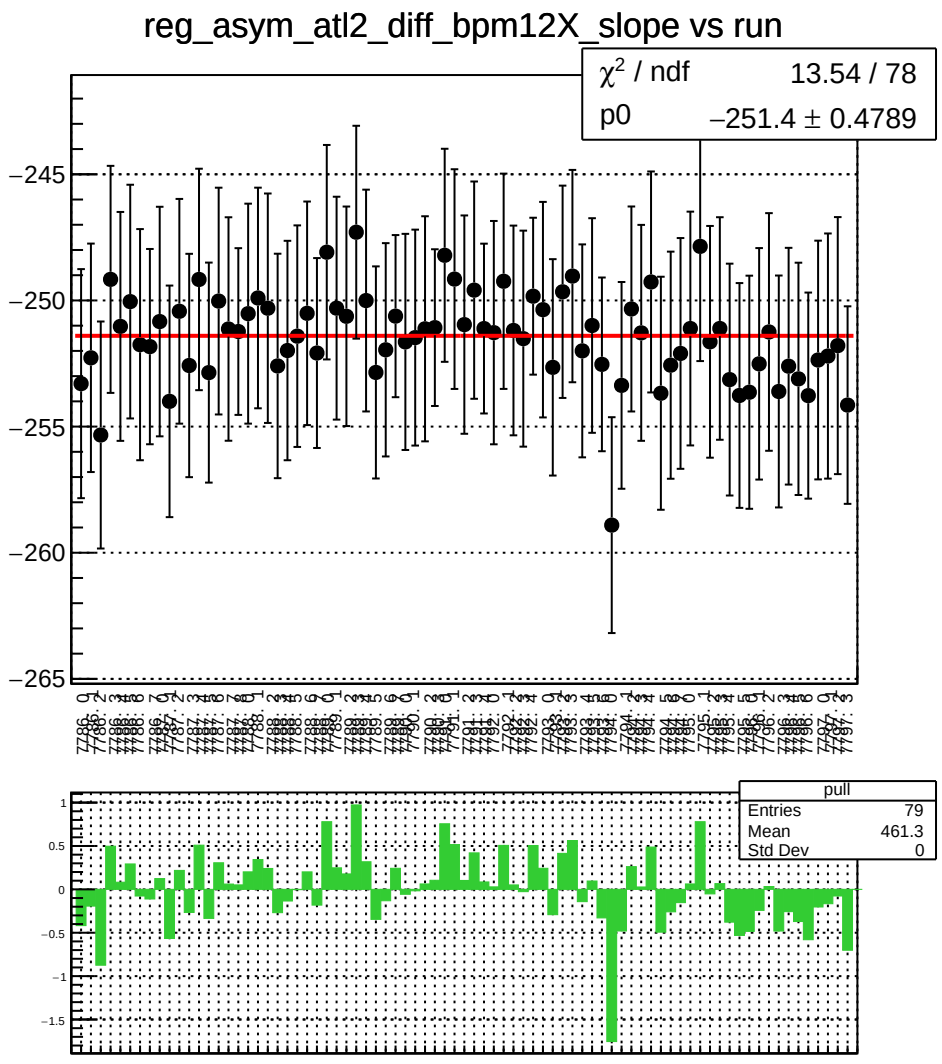

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.154 / 78
p0 79.93 ± 13.59
pull
Entries 79
Mean 385.4
Std Dev 0

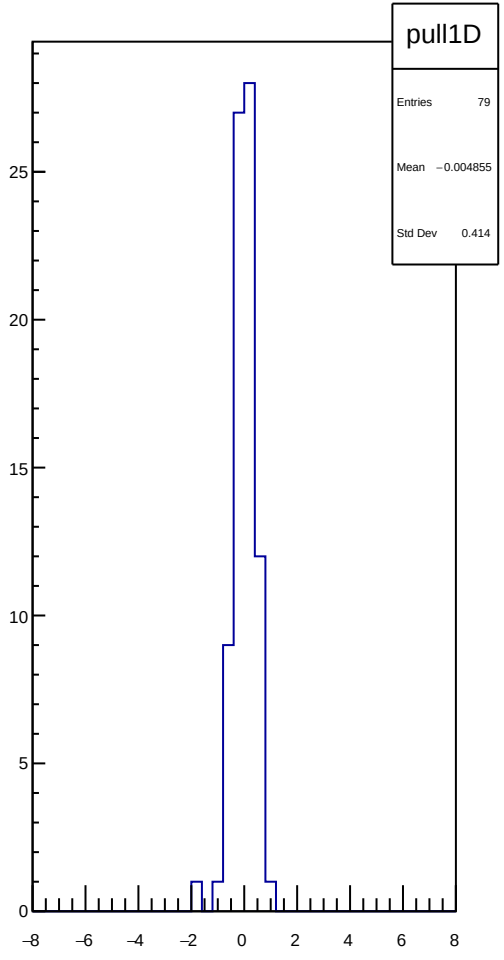

pull1D
Entries 79
Mean 0.003782
Std Dev 0.2554

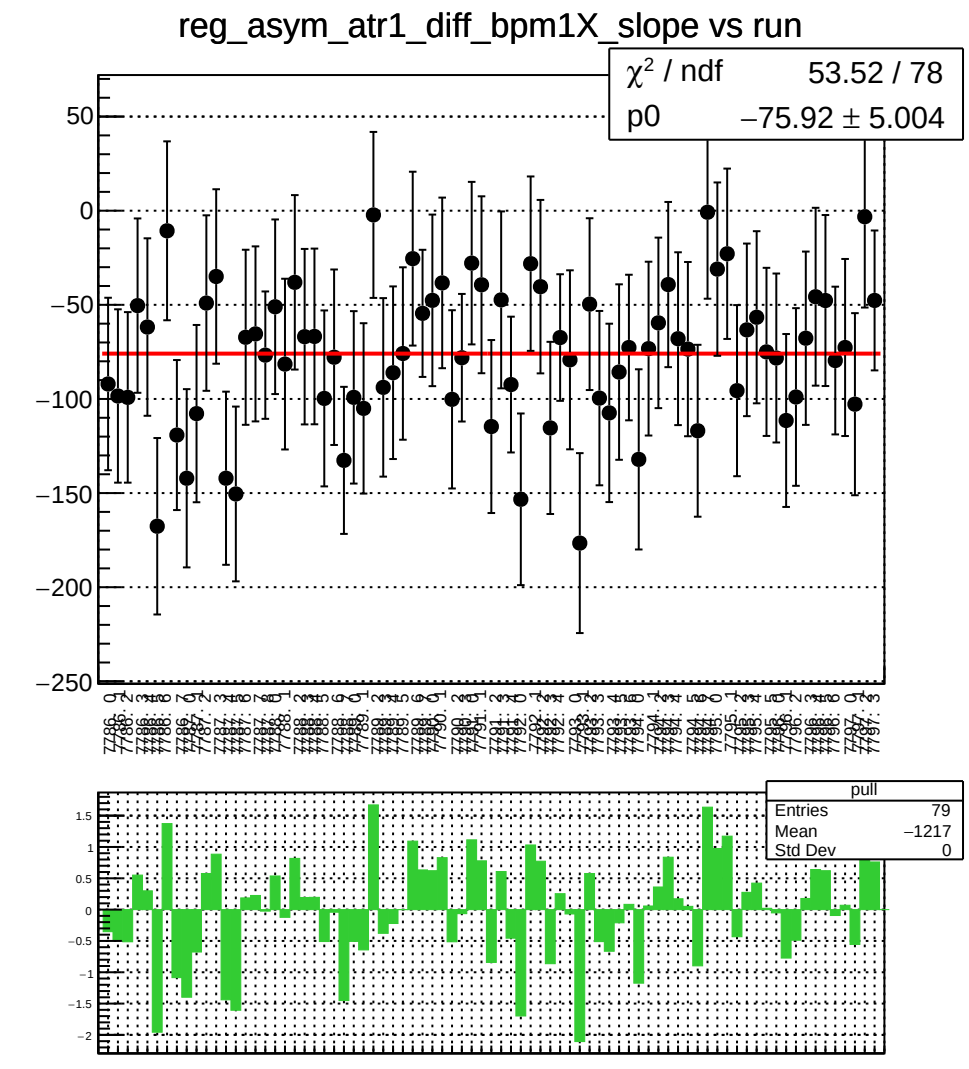

reg_asym_atl2_diff_bpm4eX_slope vs run
χ^2 / ndf 6.688 / 78
p0 149.3 ± 11.65
pull
Entries 79
Mean −385
Std Dev 0
pull1D
Entries 79
Mean 0.001173
Std Dev 0.291

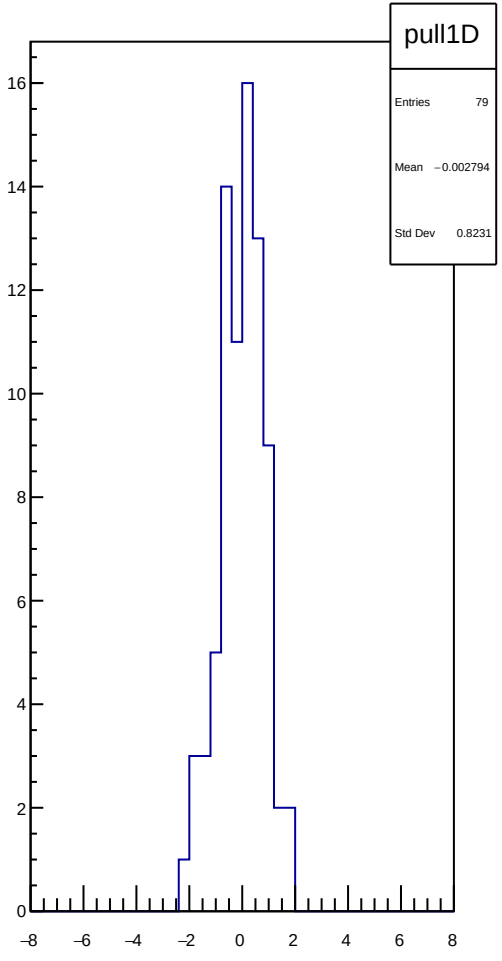

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.288 / 78
p0 38.89 ± 15.41
pull
Entries 79
Mean 339.8
Std Dev 0

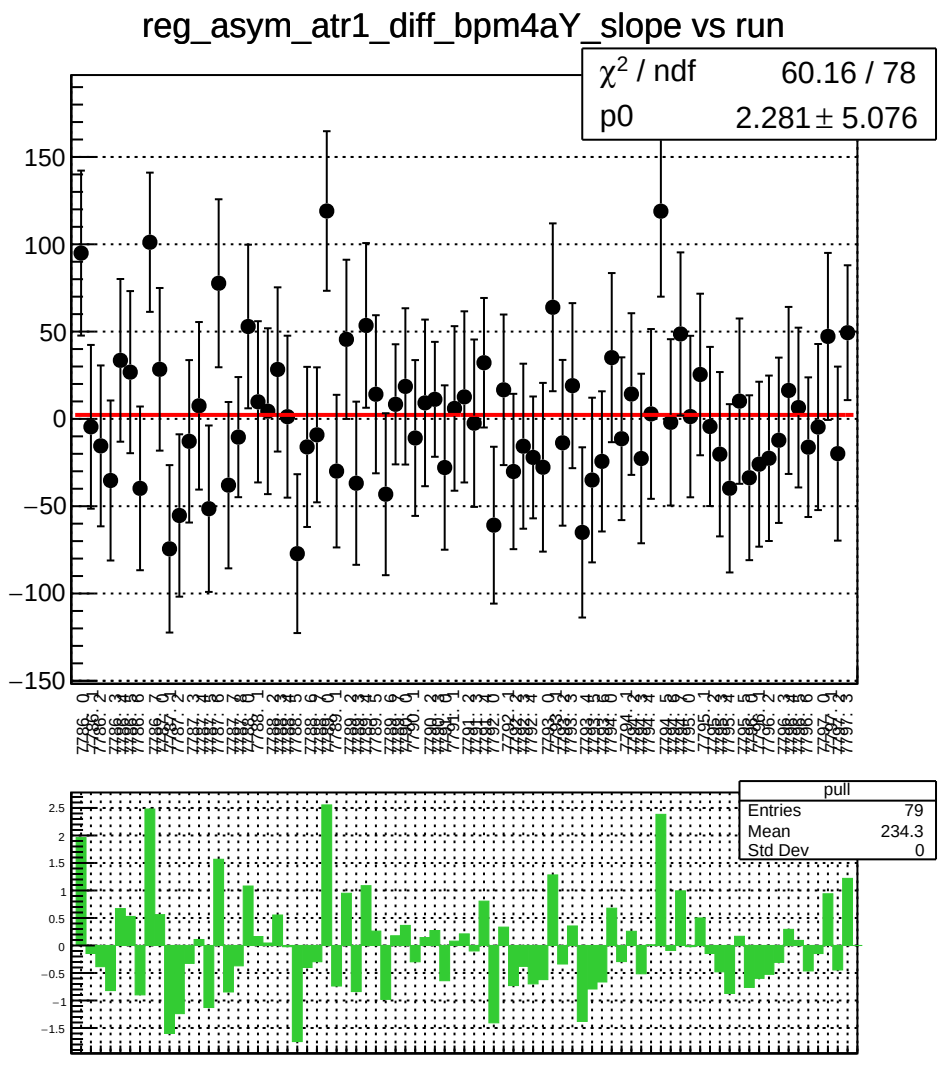

pull1D
Entries 79
Mean −0.003753
Std Dev 0.2587

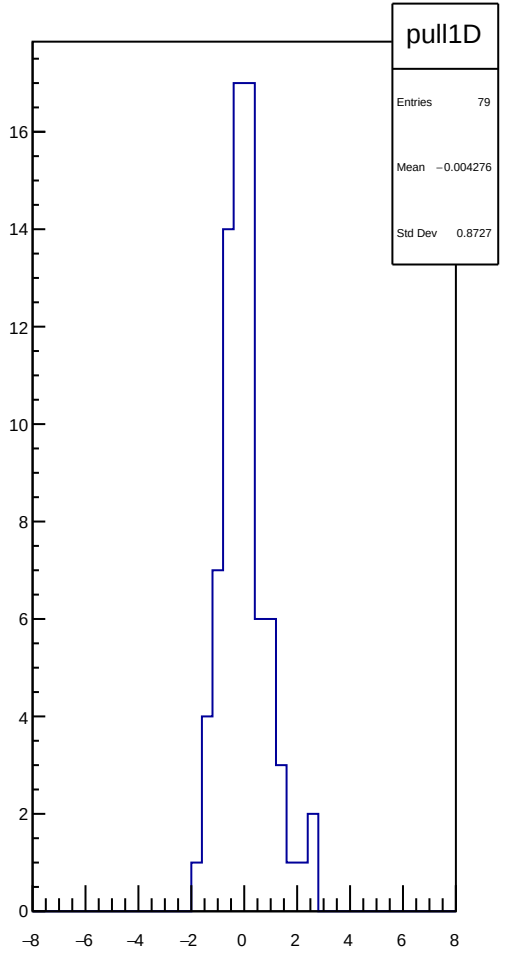

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 13.54 / 78
p0 −251.4 ± 0.4789
−245
−250
−255
−260
−265
pull
Entries 79
Mean 461.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

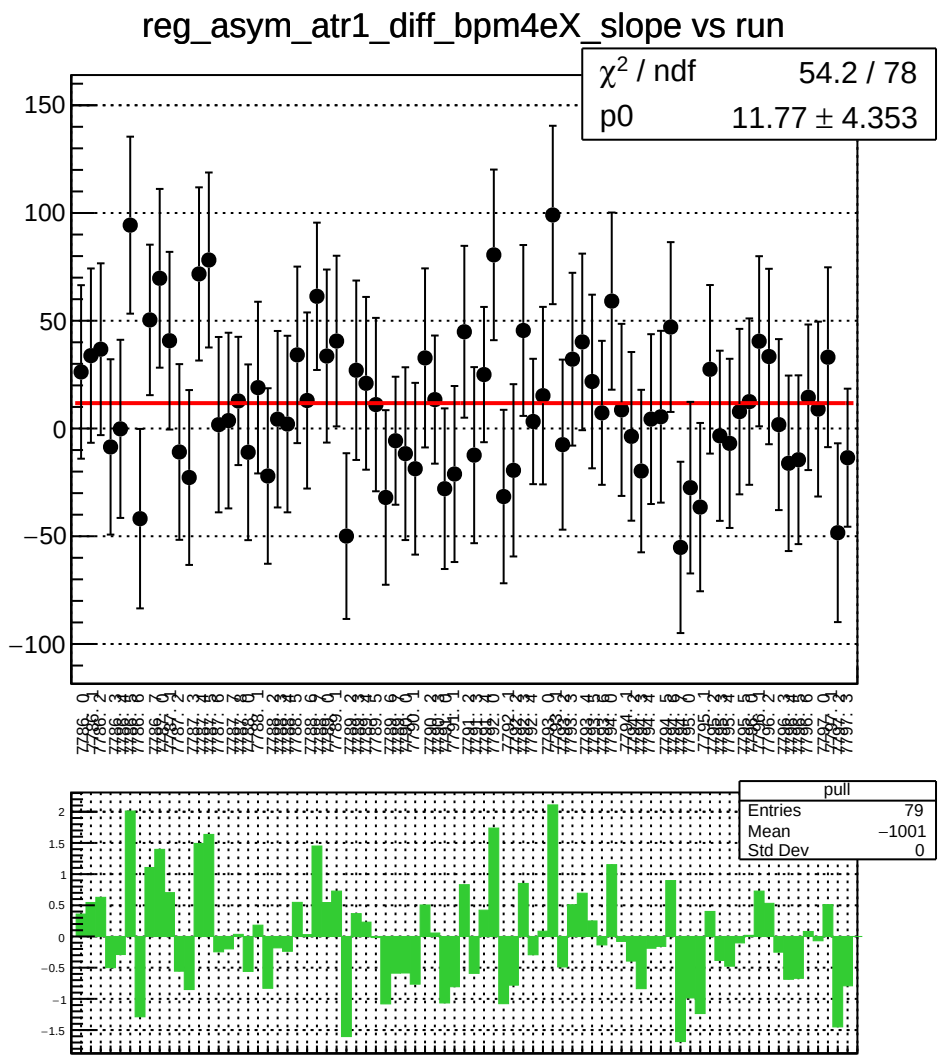

pull1D
Entries 79
Mean −0.004855
Std Dev 0.414
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

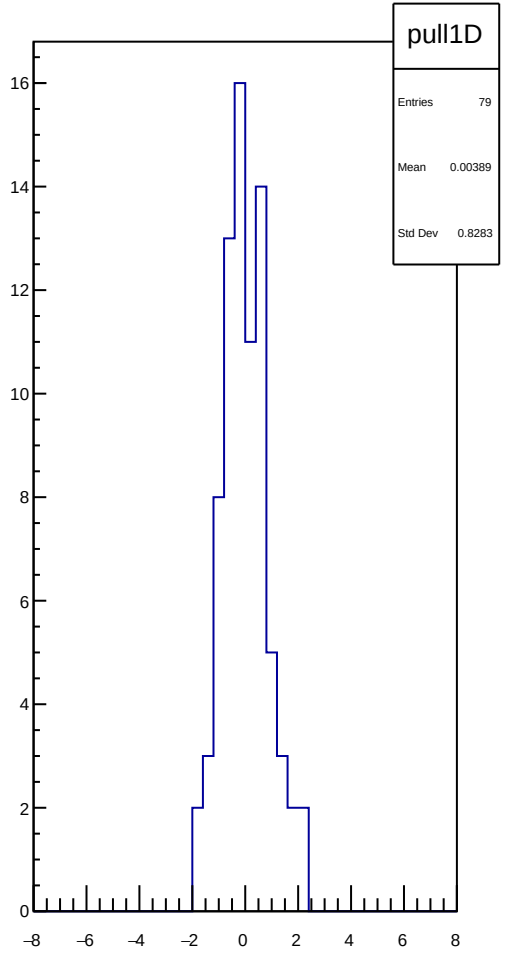

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 53.52 / 78
p0 −75.92 ± 5.004
pull
Entries 79
Mean −1217
Std Dev 0

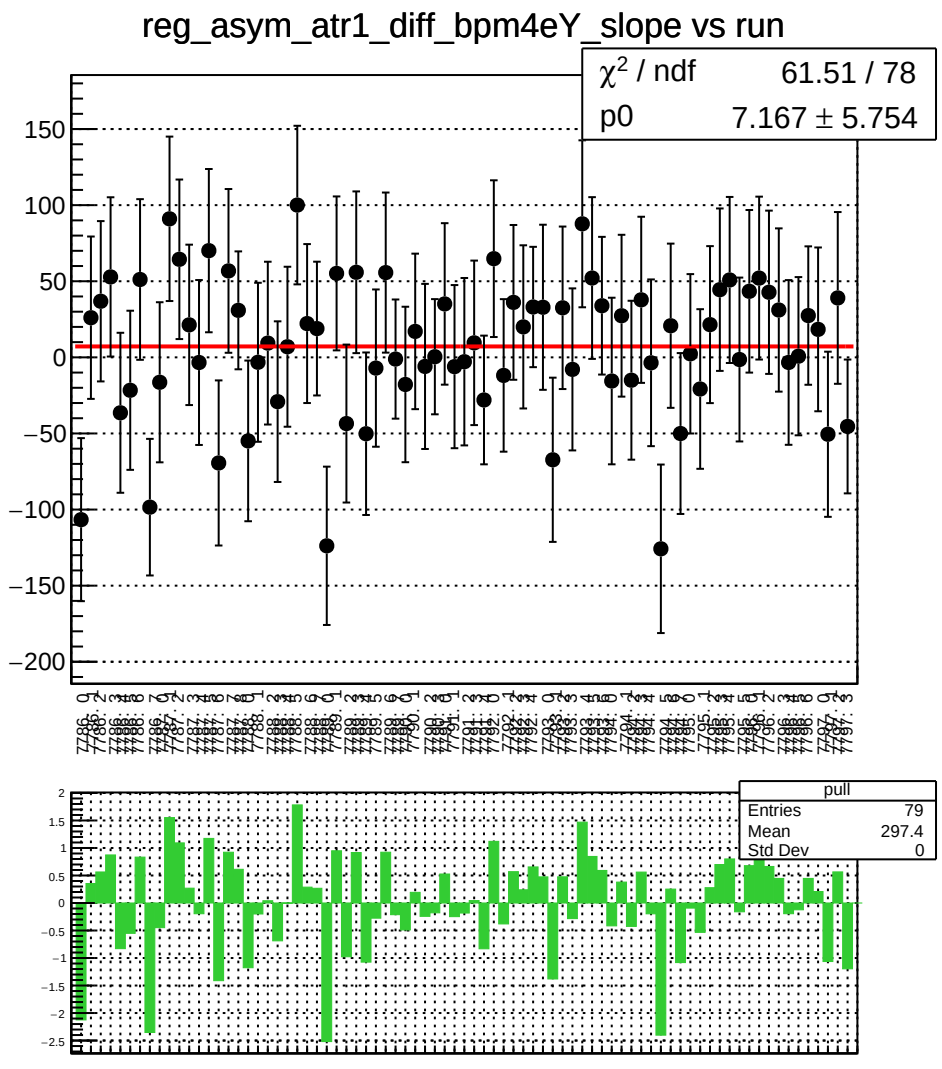

pull1D
Entries 79
Mean −0.002794
Std Dev 0.8231

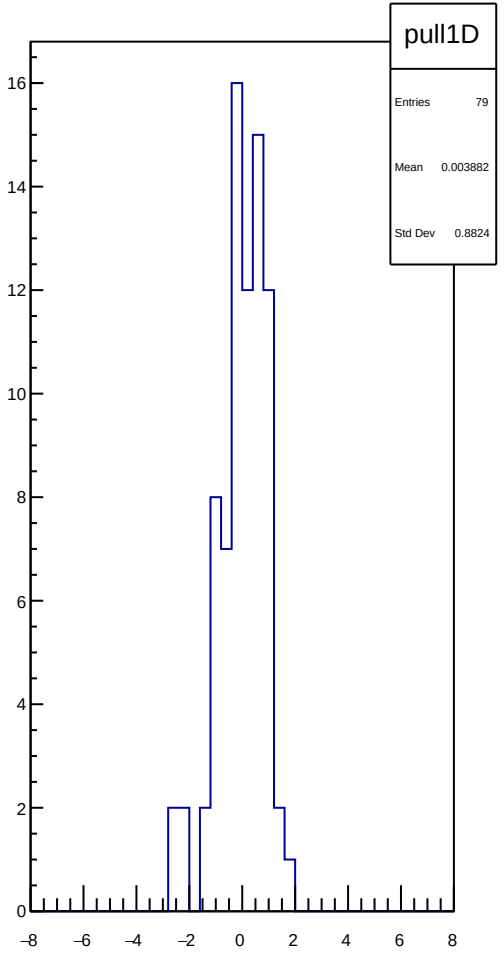

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 60.16 / 78
p0 2.281 ± 5.076
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean 234.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

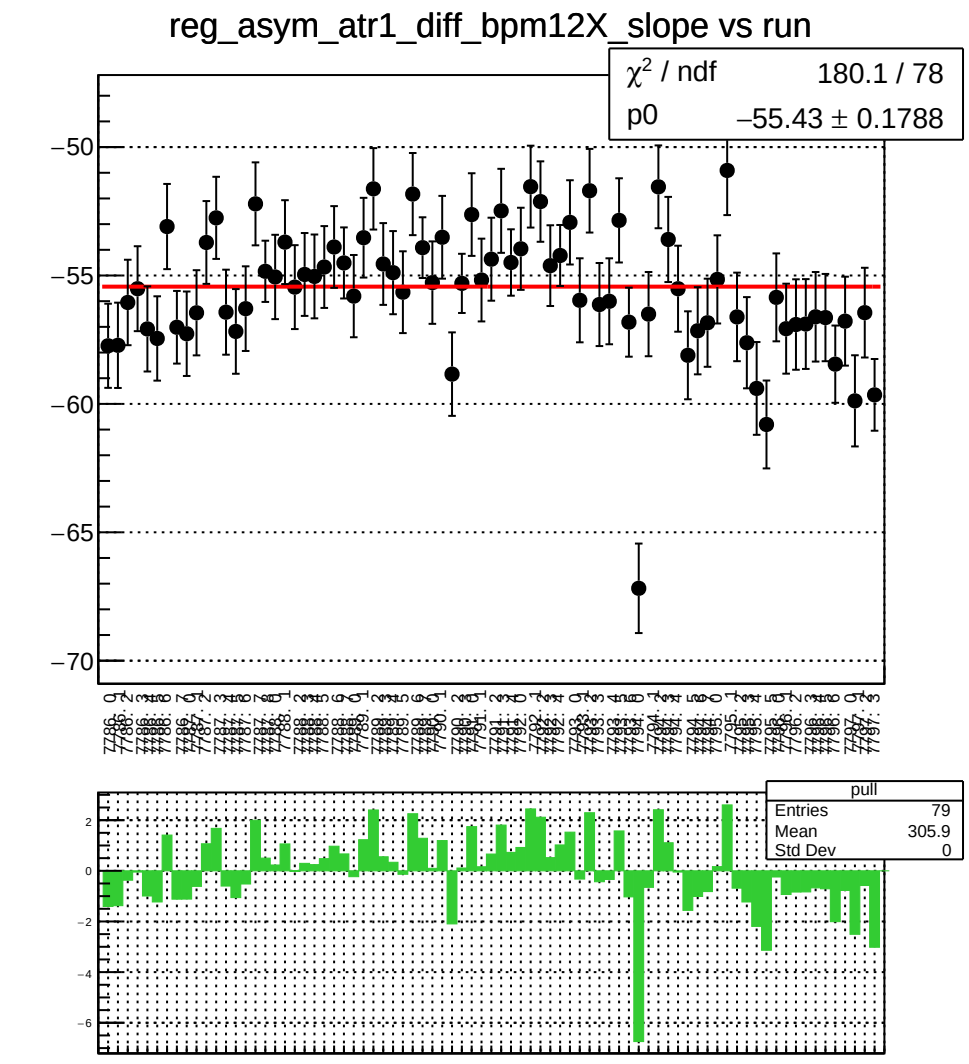

pull1D
Entries 79
Mean −0.004276
Std Dev 0.8727
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

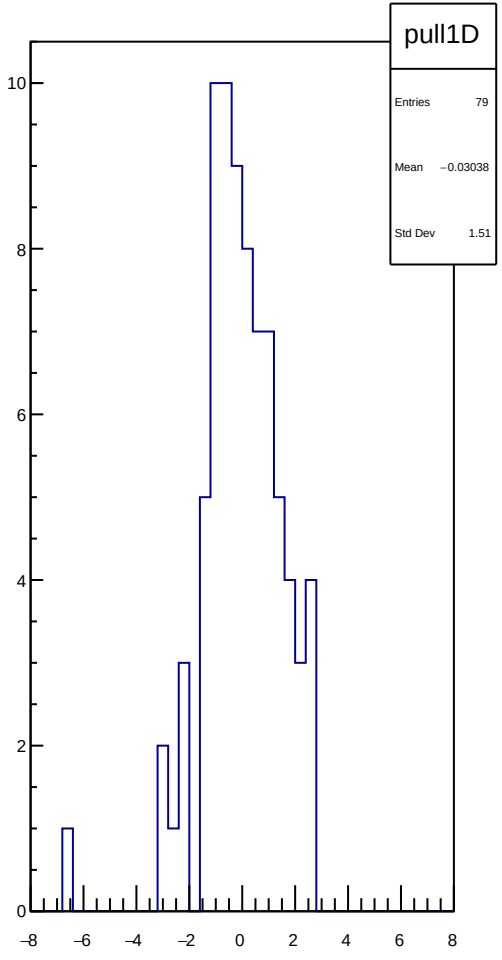

reg_asym_atr1_diff_bpm4eX_slope vs run
χ^2 / ndf 54.2 / 78
p0 11.77 ± 4.353
150
100
50
0
−50
−100
pull
Entries 79
Mean −1001
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

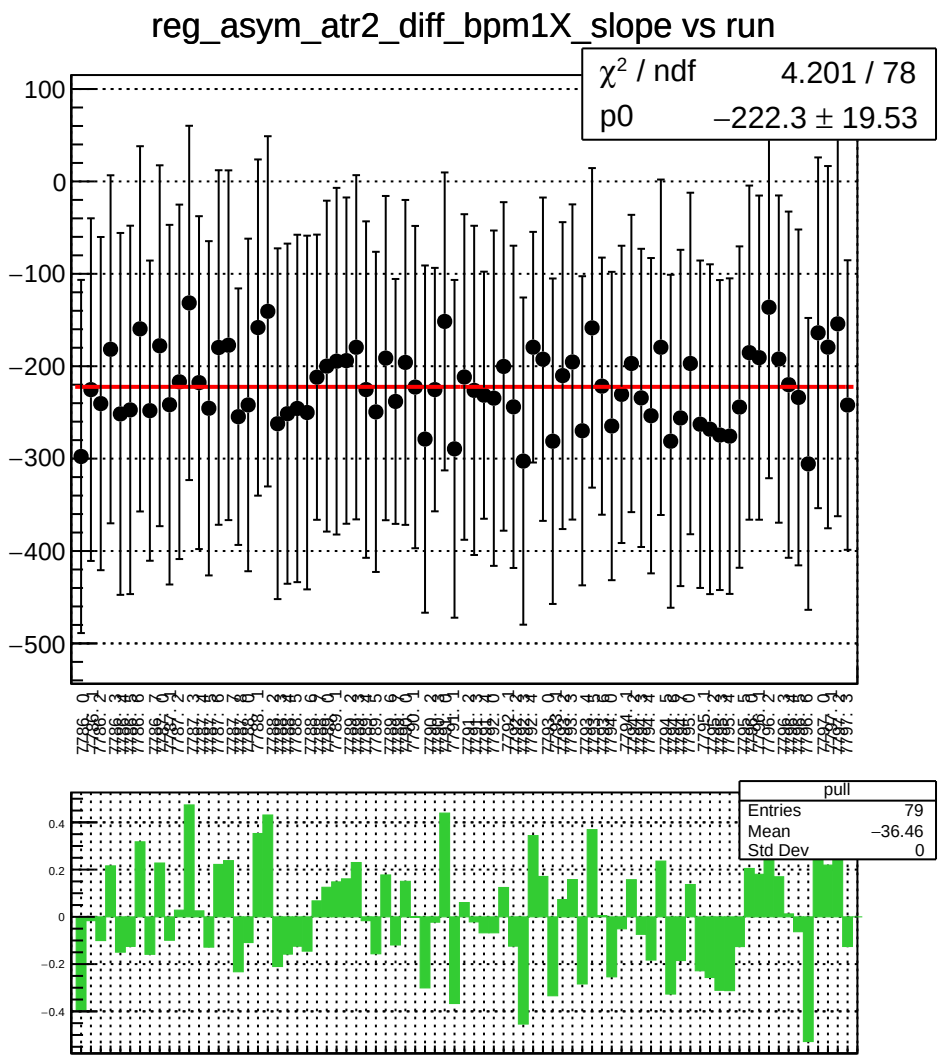

pull1D
Entries 79
Mean 0.00389
Std Dev 0.8283
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

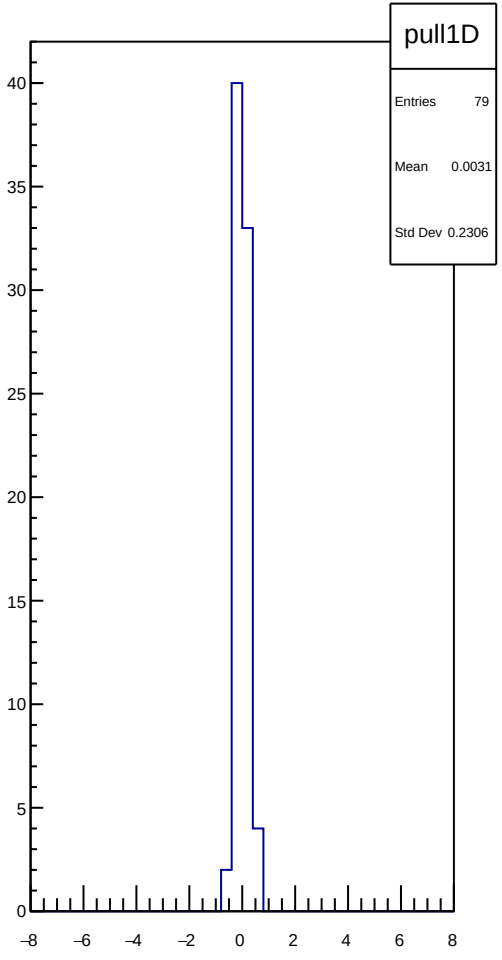

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 61.51 / 78
p0 7.167 ± 5.754
pull
Entries 79
Mean 297.4
Std Dev 0

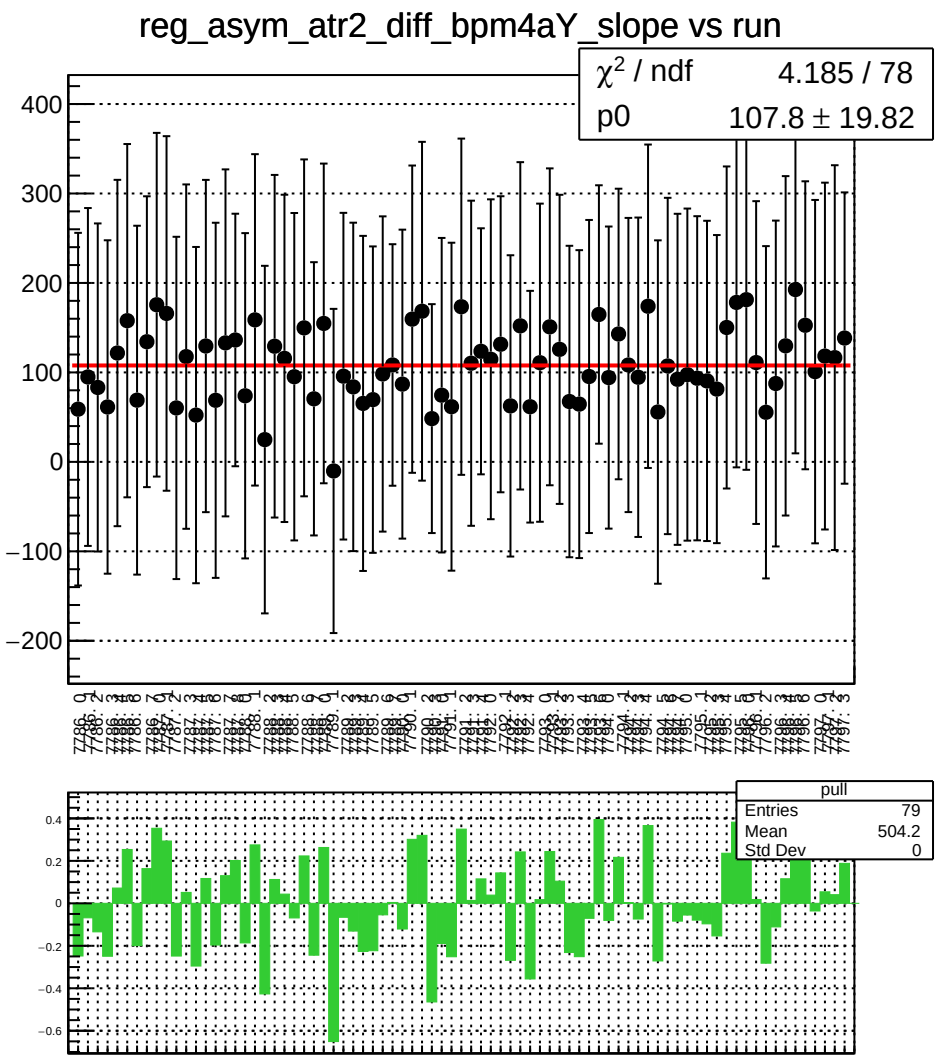

pull1D
Entries 79
Mean 0.003882
Std Dev 0.8824

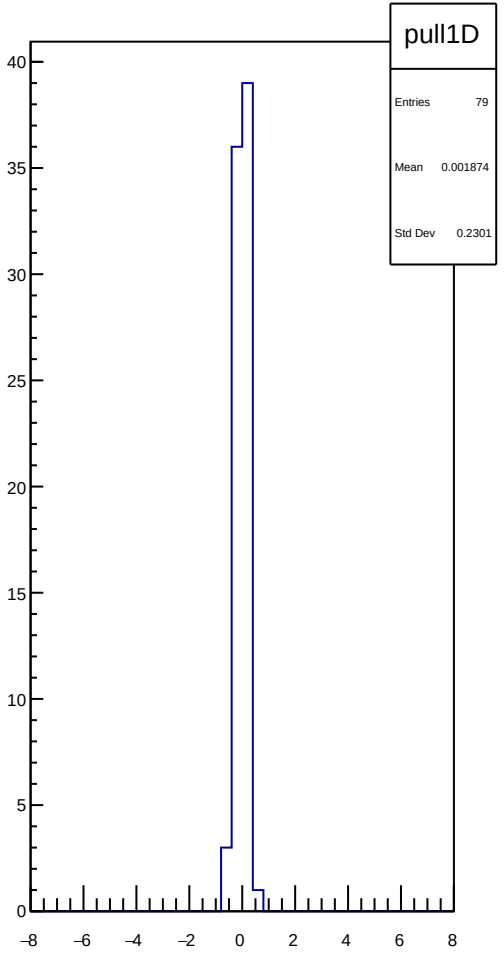

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 180.1 / 78
p0 −55.43 ± 0.1788
pull
Entries 79
Mean 305.9
Std Dev 0

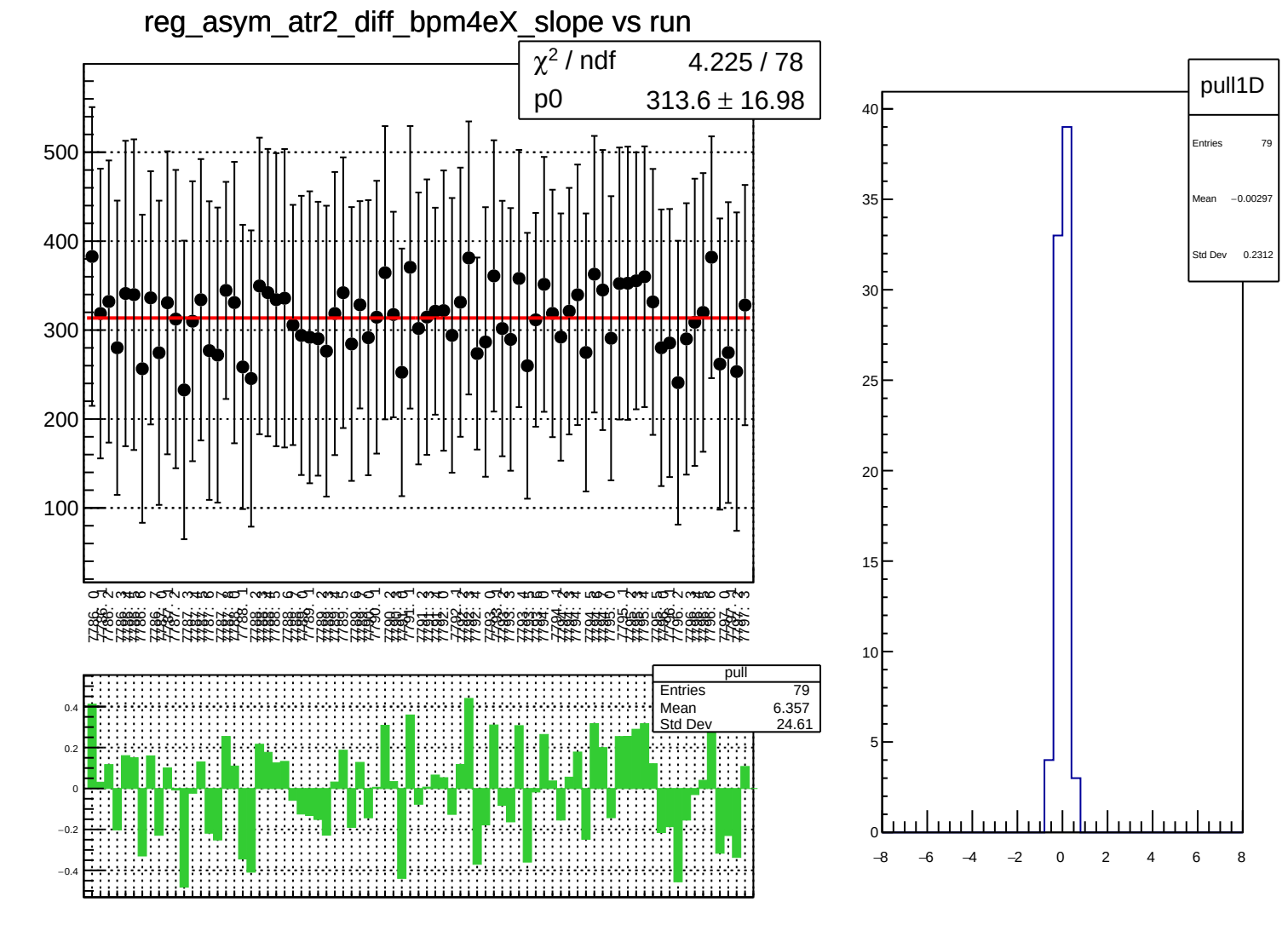

pull1D
Entries 79
Mean −0.03038
Std Dev 1.51

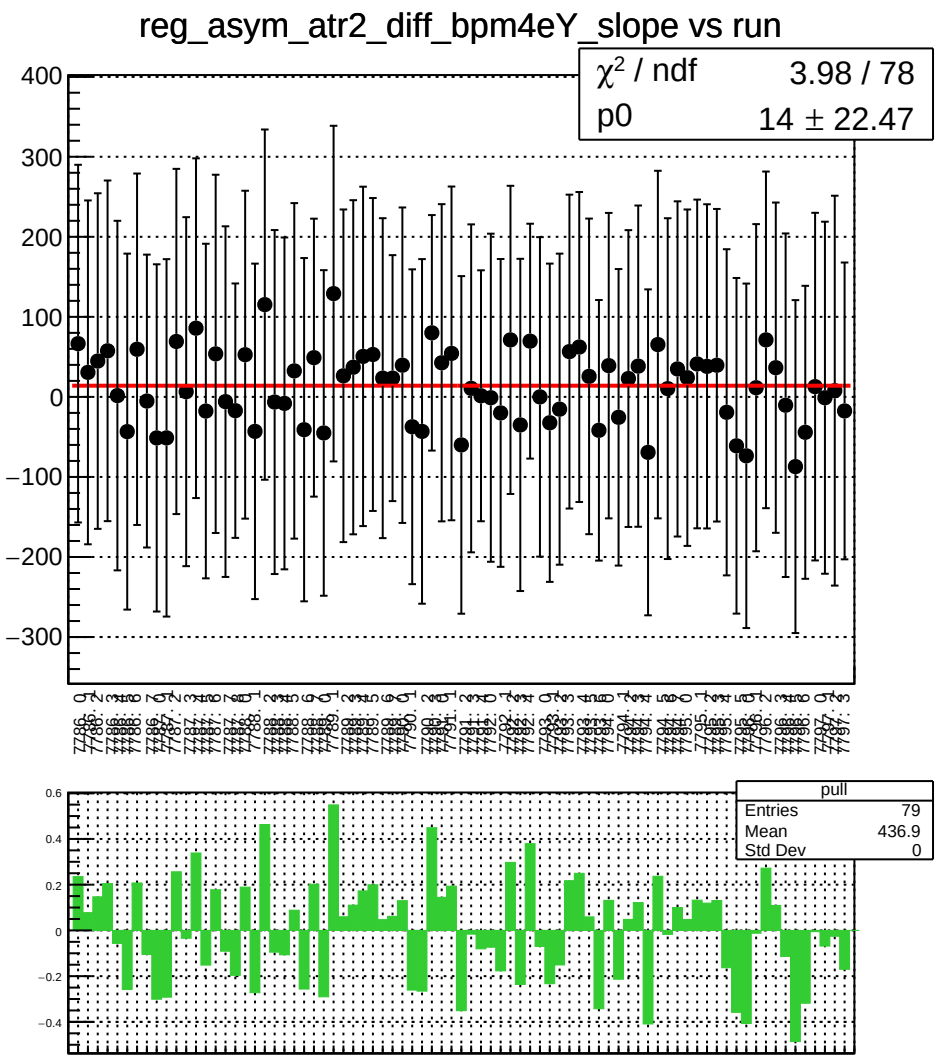

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 4.201 / 78
p0 −222.3 ± 19.53
pull
Entries 79
Mean −36.46
Std Dev 0

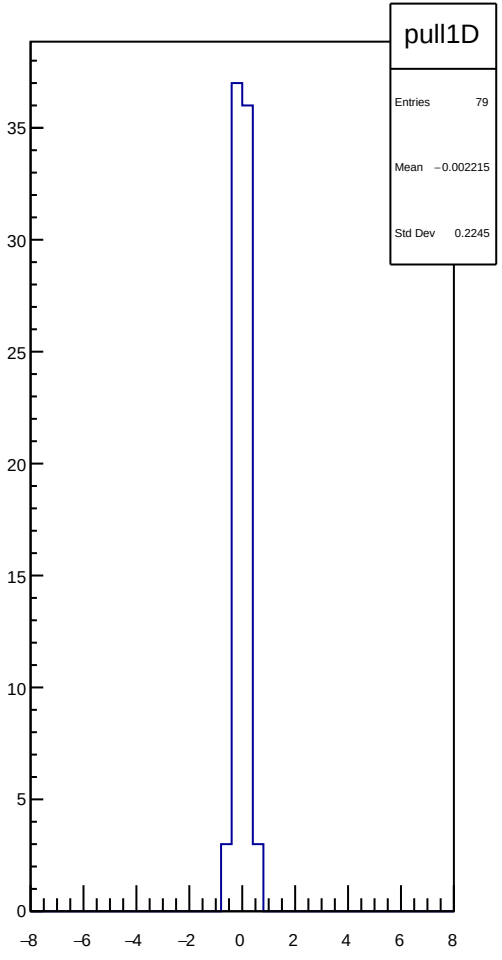

pull1D
Entries 79
Mean 0.0031
Std Dev 0.2306

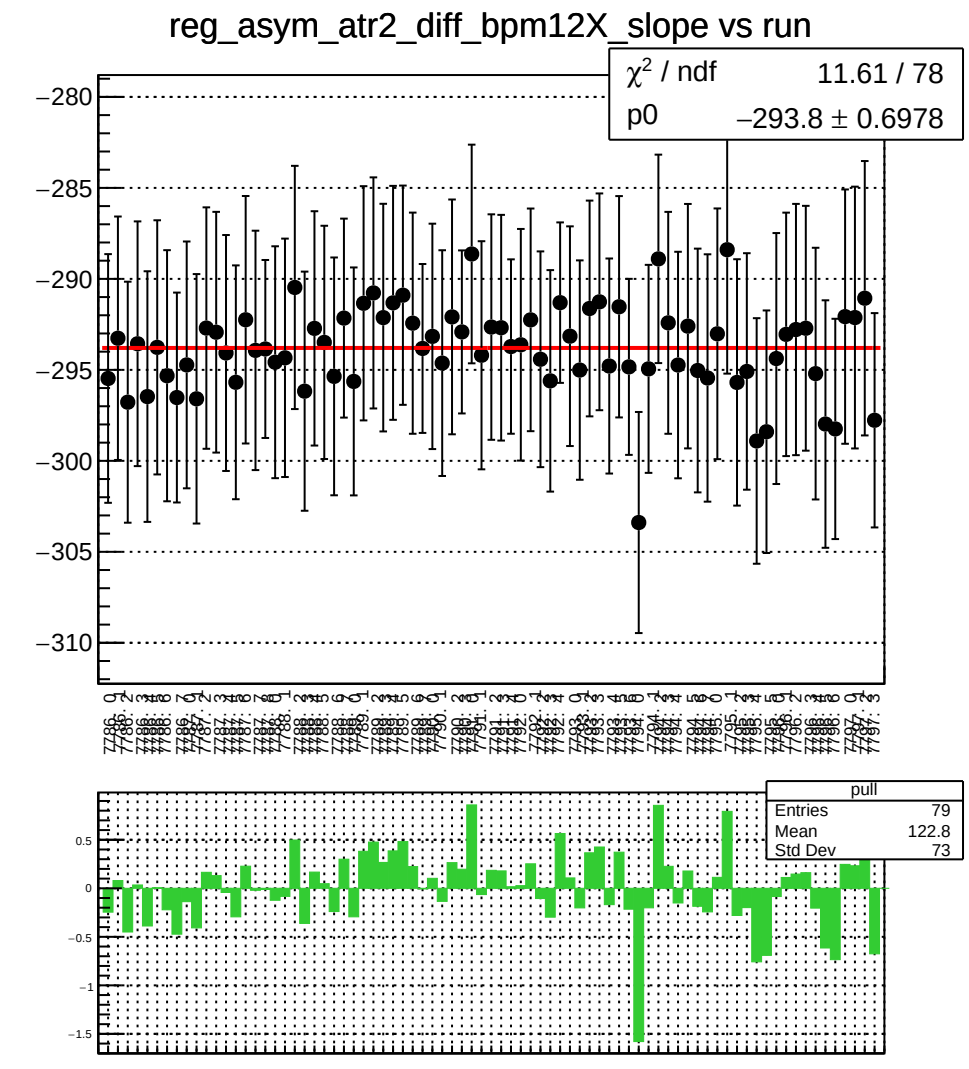

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.185 / 78
p0 107.8 ± 19.82
pull
Entries 79
Mean 504.2
Std Dev 0

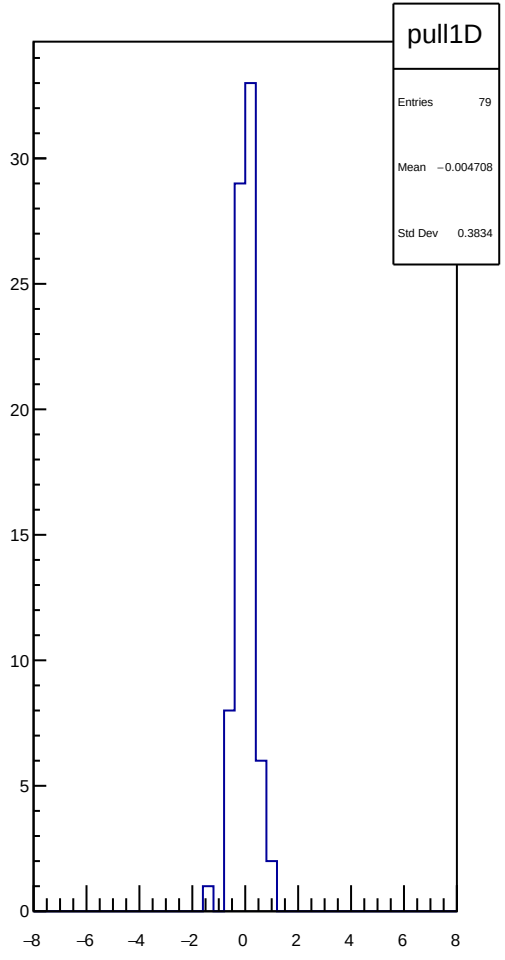

pull1D
Entries 79
Mean 0.001874
Std Dev 0.2301

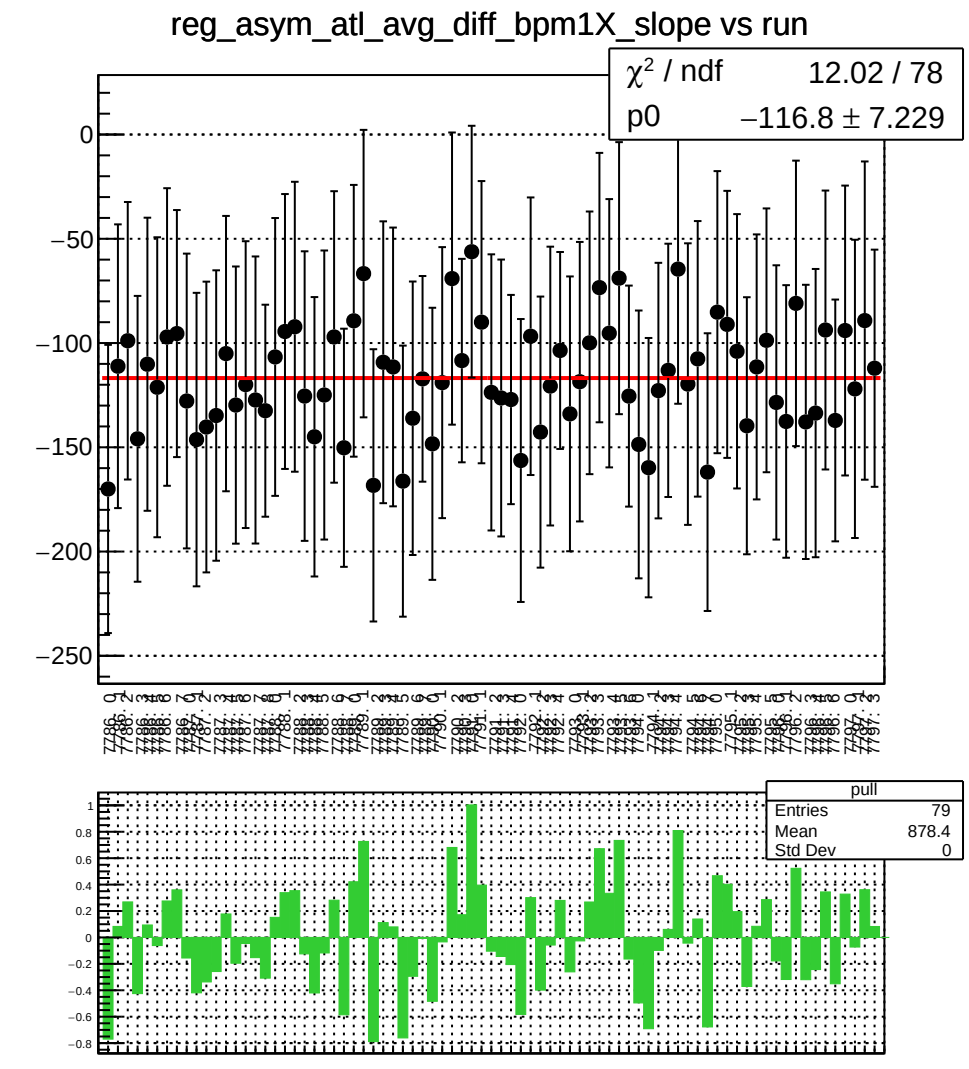

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 4.225 / 78
p0 313.6 ± 16.98
pull
Entries 79
Mean 6.357
Std Dev 24.61
pull1D
Entries 79
Mean −0.00297
Std Dev 0.2312

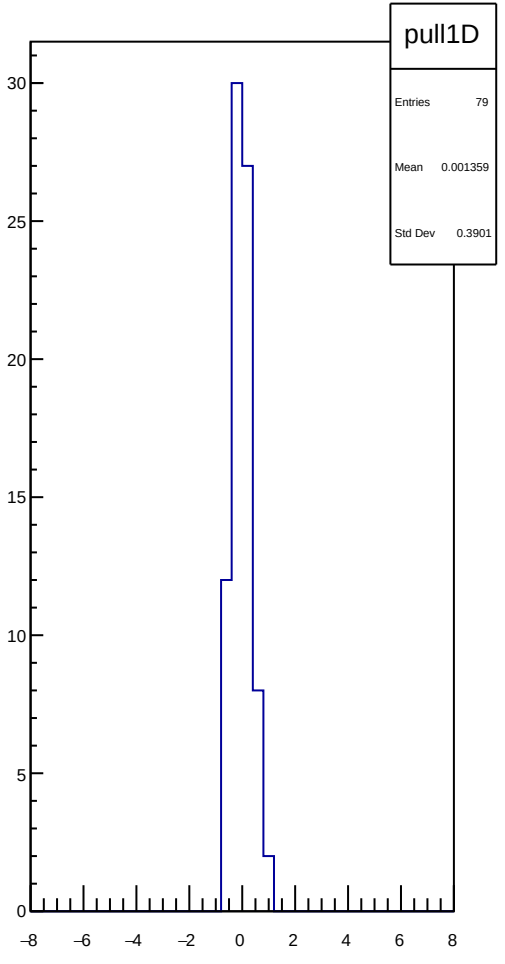

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.98 / 78
p0 14 ± 22.47
pull
Entries 79
Mean 436.9
Std Dev 0

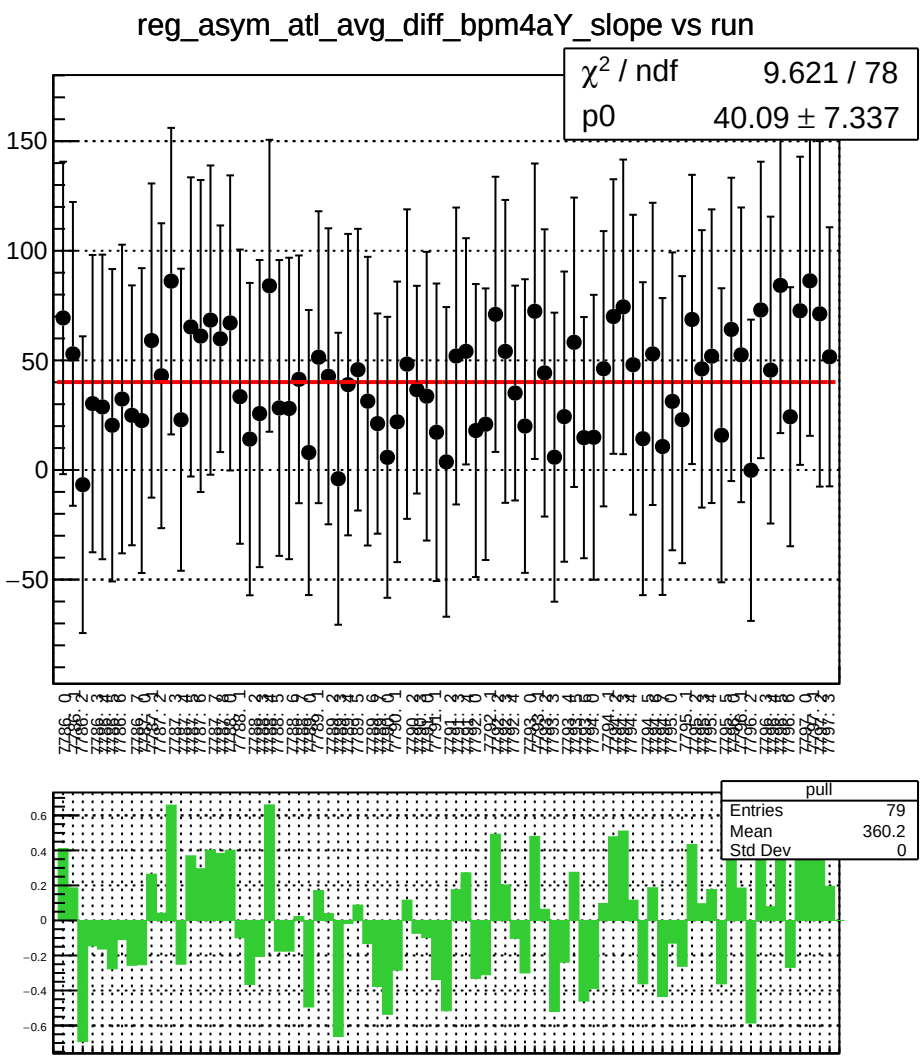

pull1D
Entries 79
Mean −0.002215
Std Dev 0.2245

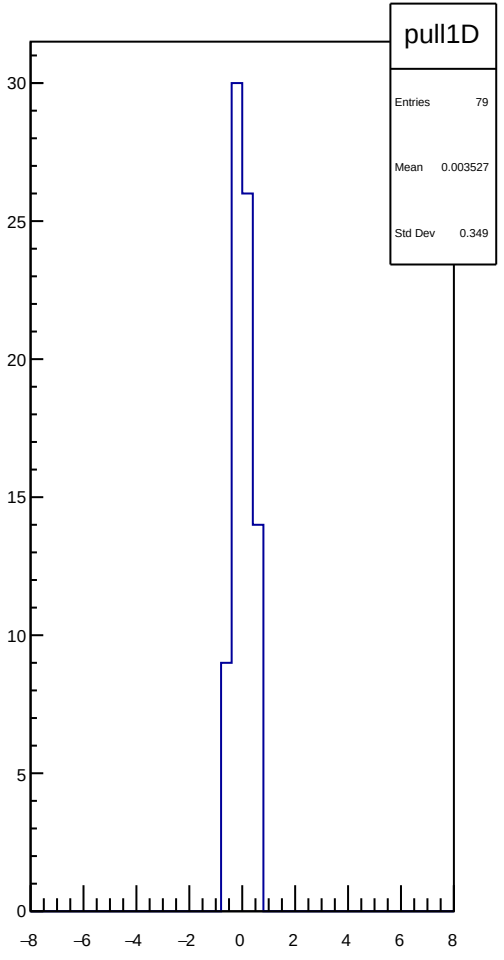

reg_asym_atr2_diff_bpm12X_slope vs run
χ^2 / ndf 11.61 / 78
p0 −293.8 ± 0.6978
−280
−285
−290
−295
−300
−305
−310
pull
Entries 79
Mean 122.8
Std Dev 73
0.5
0
−0.5
−1
−1.5

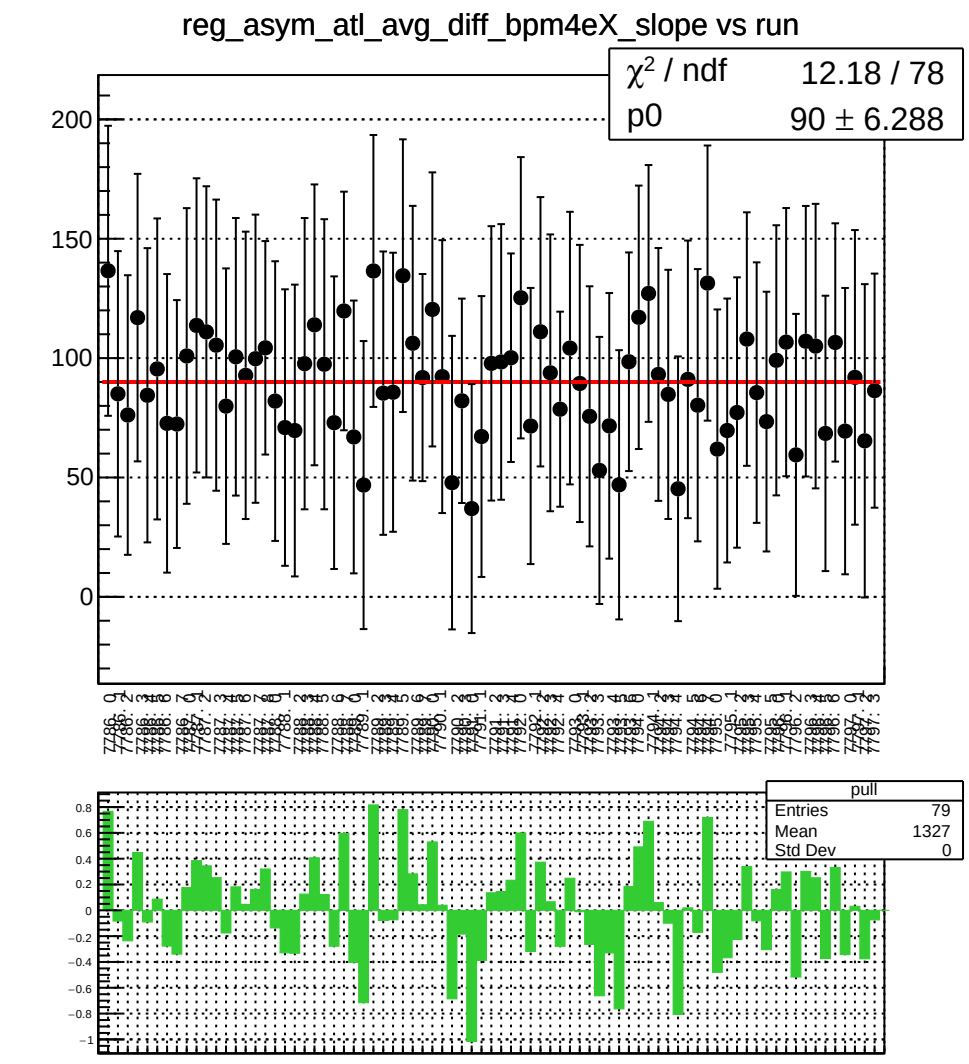

pull1D
Entries 79
Mean −0.004708
Std Dev 0.3834
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

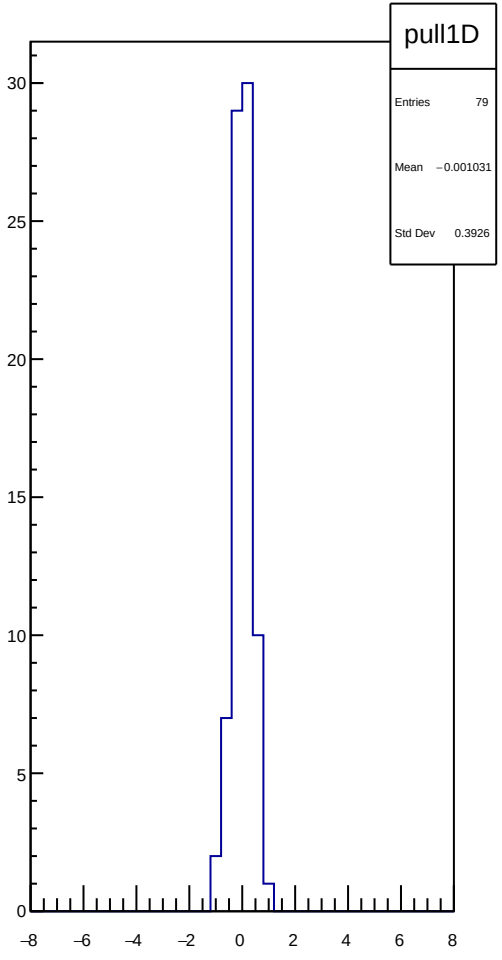

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 12.02 / 78
p0 −116.8 ± 7.229
pull
Entries 79
Mean 878.4
Std Dev 0

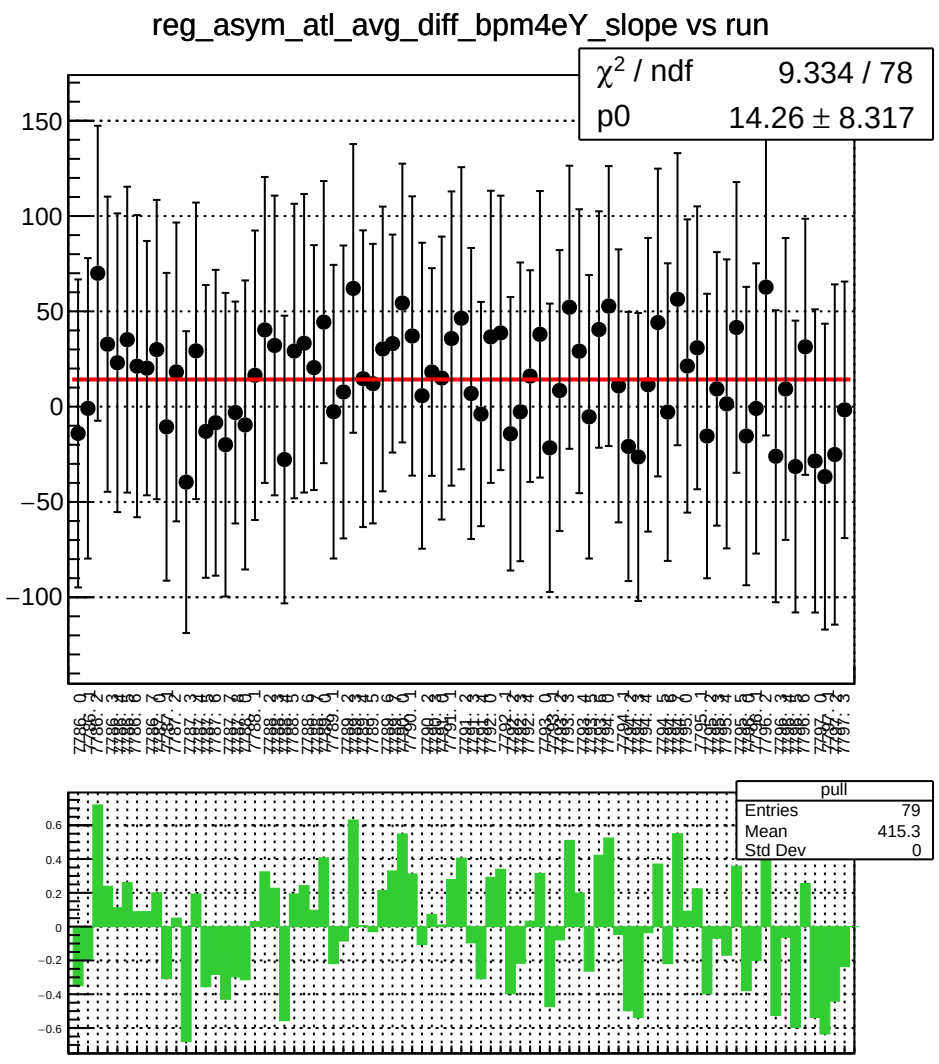

pull1D
Entries 79
Mean 0.001359
Std Dev 0.3901

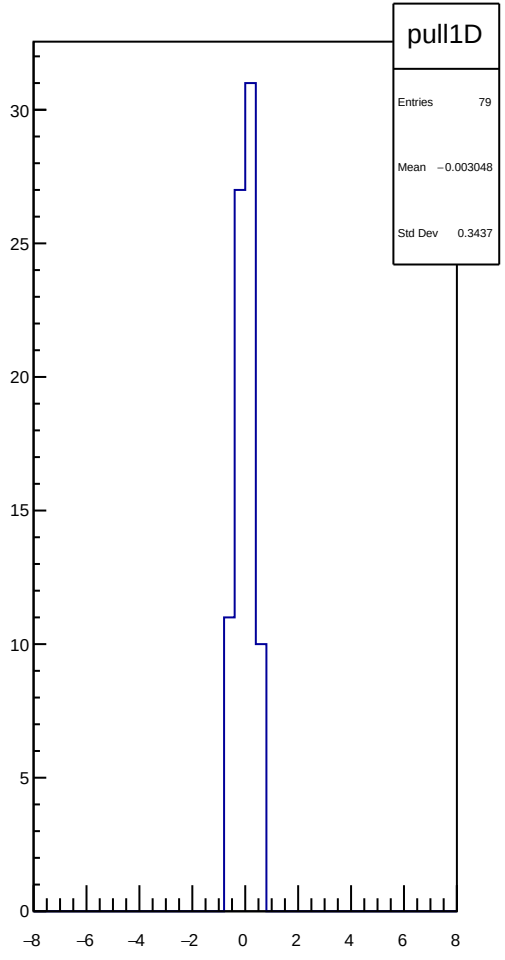

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.621 / 78
p0 40.09 ± 7.337
150
100
50
0
−50
pull
Entries 79
Mean 360.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

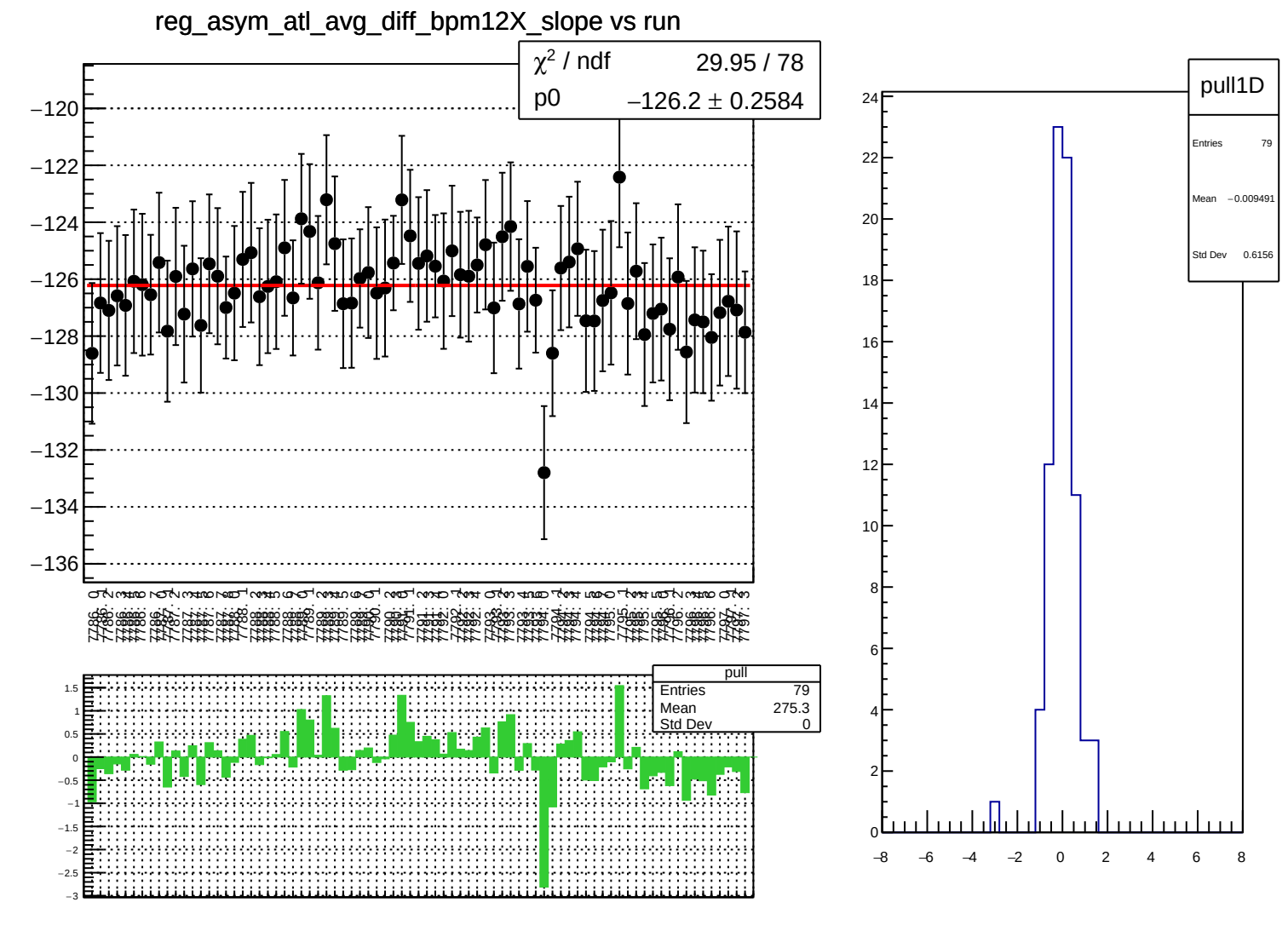

pull1D
Entries 79
Mean 0.003527
Std Dev 0.349
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

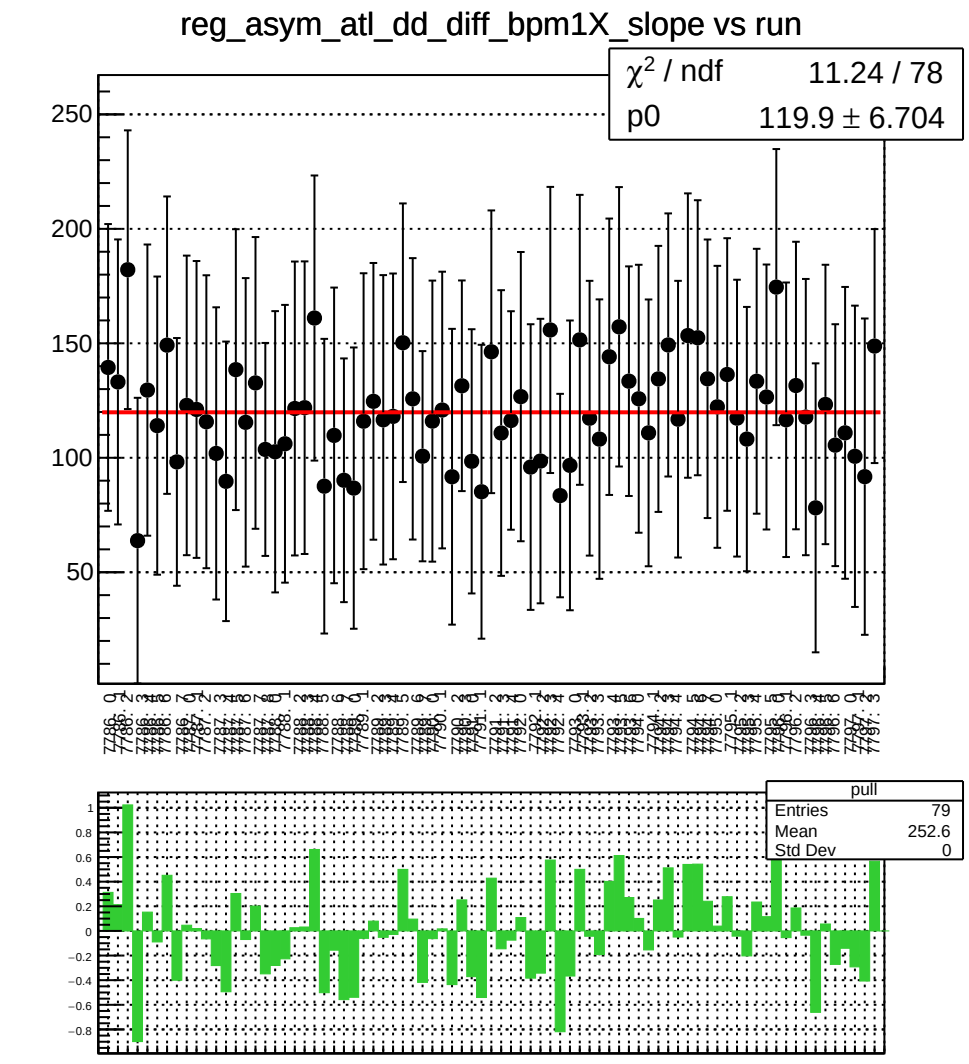

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.18 / 78
p0 90 ± 6.288
pull
Entries 79
Mean 1327
Std Dev 0

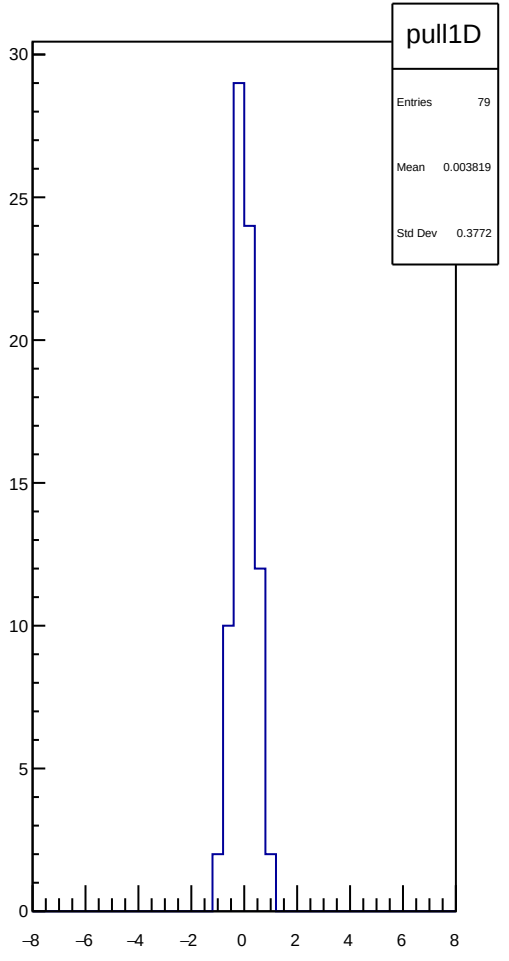

pull1D
Entries 79
Mean −0.001031
Std Dev 0.3926

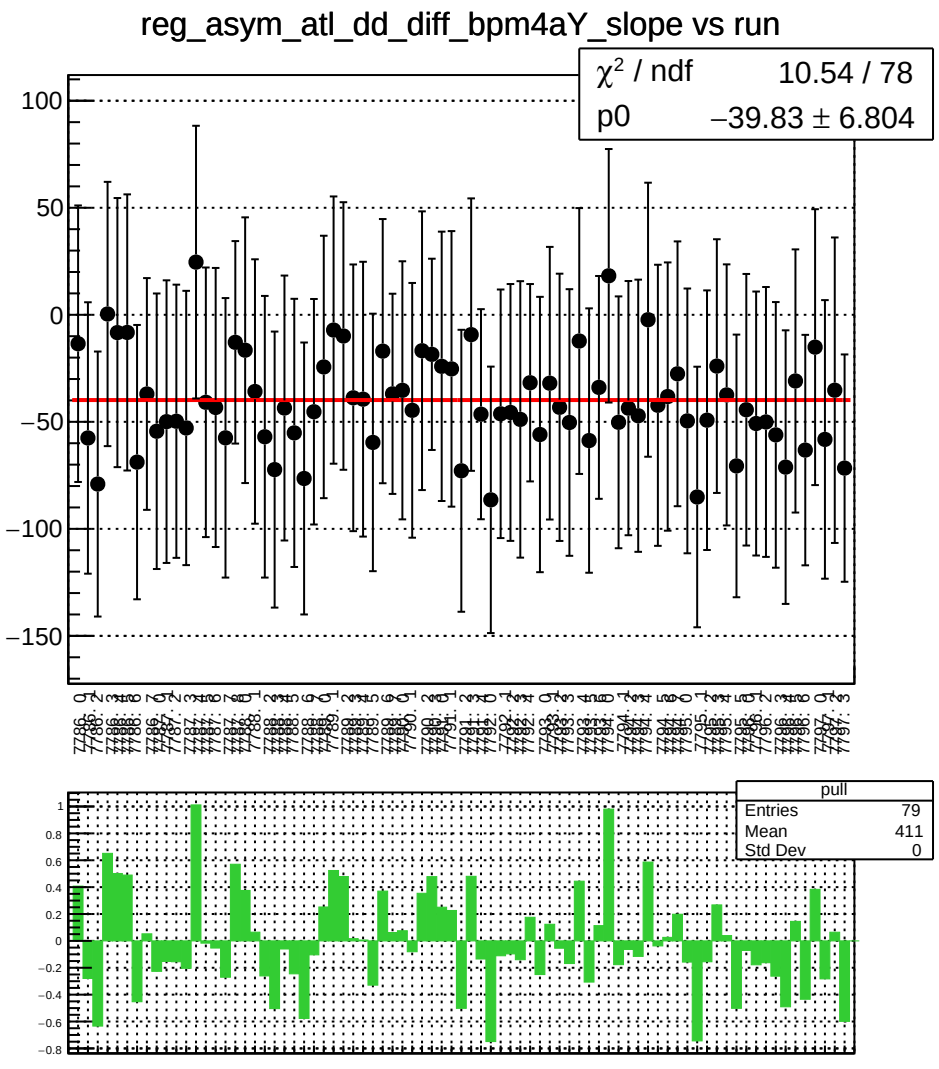

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.334 / 78
p0 14.26 ± 8.317
150
100
50
0
−50
−100
pull
Entries 79
Mean 415.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

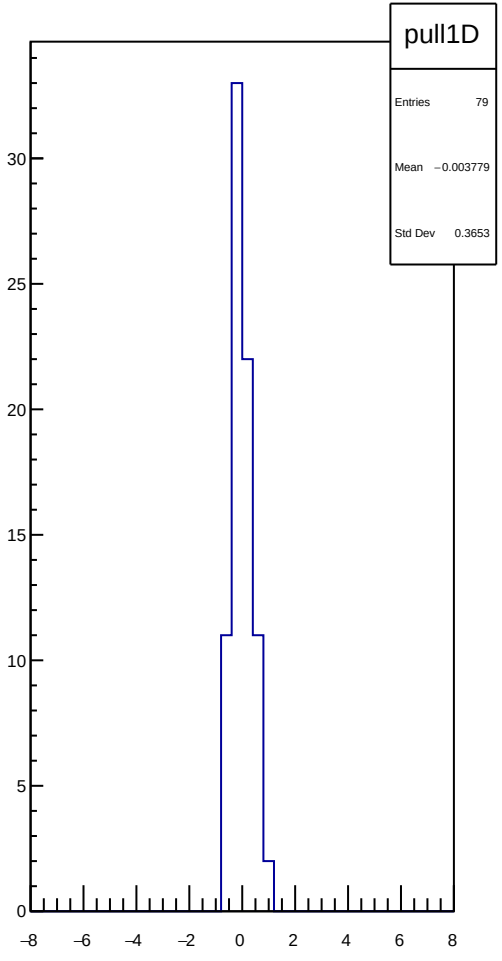

pull1D
Entries 79
Mean −0.003048
Std Dev 0.3437
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

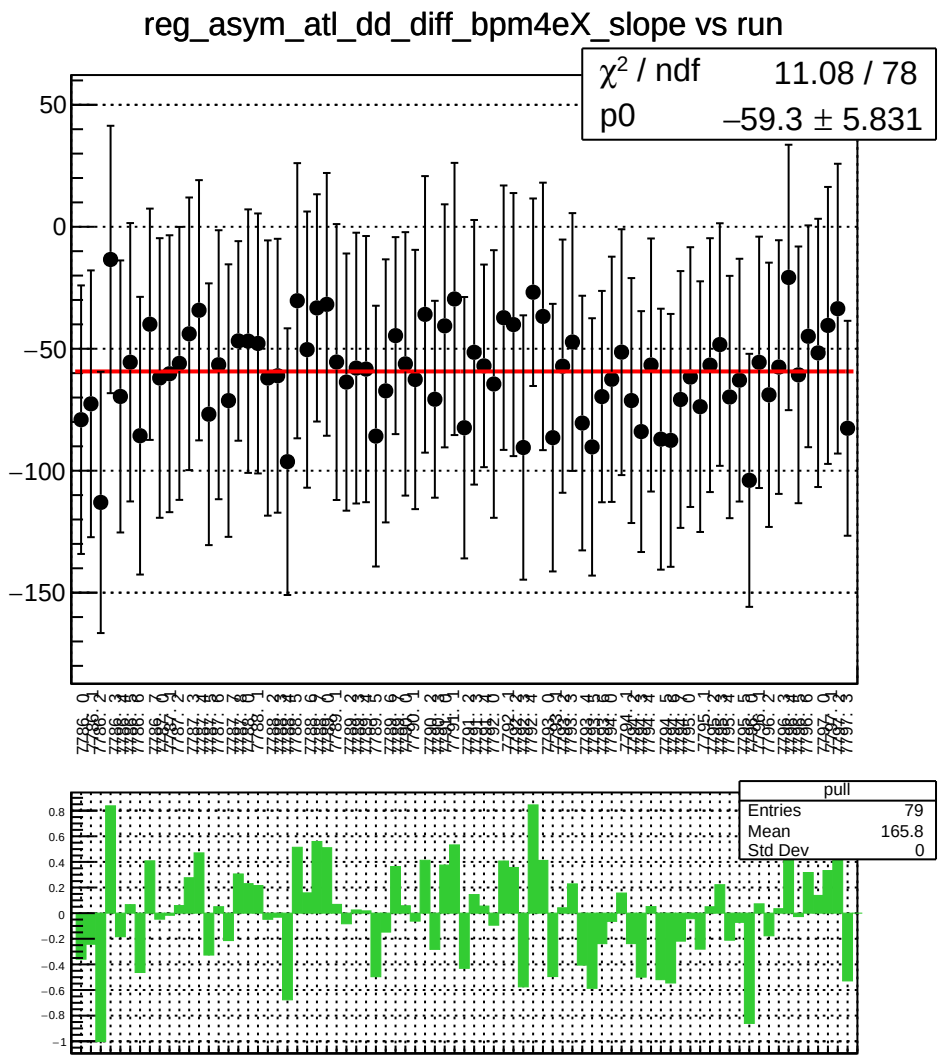

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 29.95 / 78
p0 −126.2 ± 0.2584
pull
Entries 79
Mean 275.3
Std Dev 0
pull1D
Entries 79
Mean −0.009491
Std Dev 0.6156

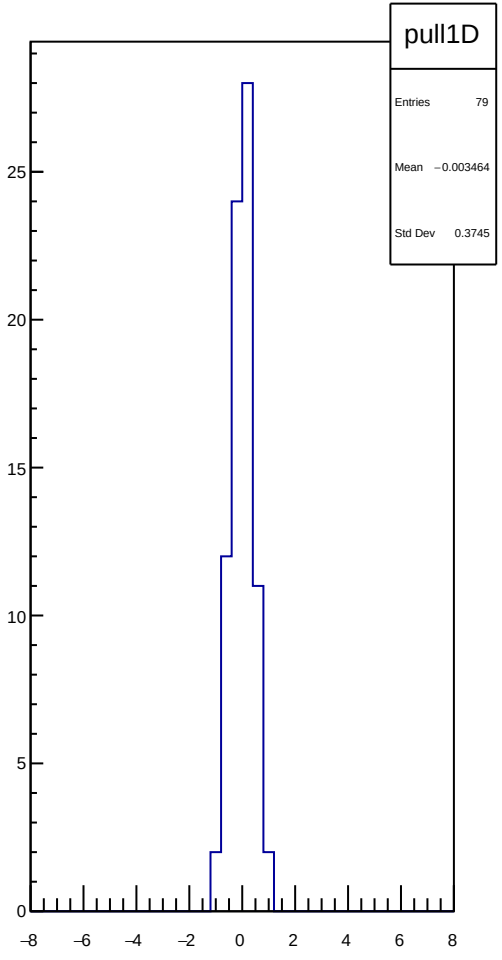

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 11.24 / 78
p0 119.9 ± 6.704
250
200
150
100
50
pull
Entries 79
Mean 252.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

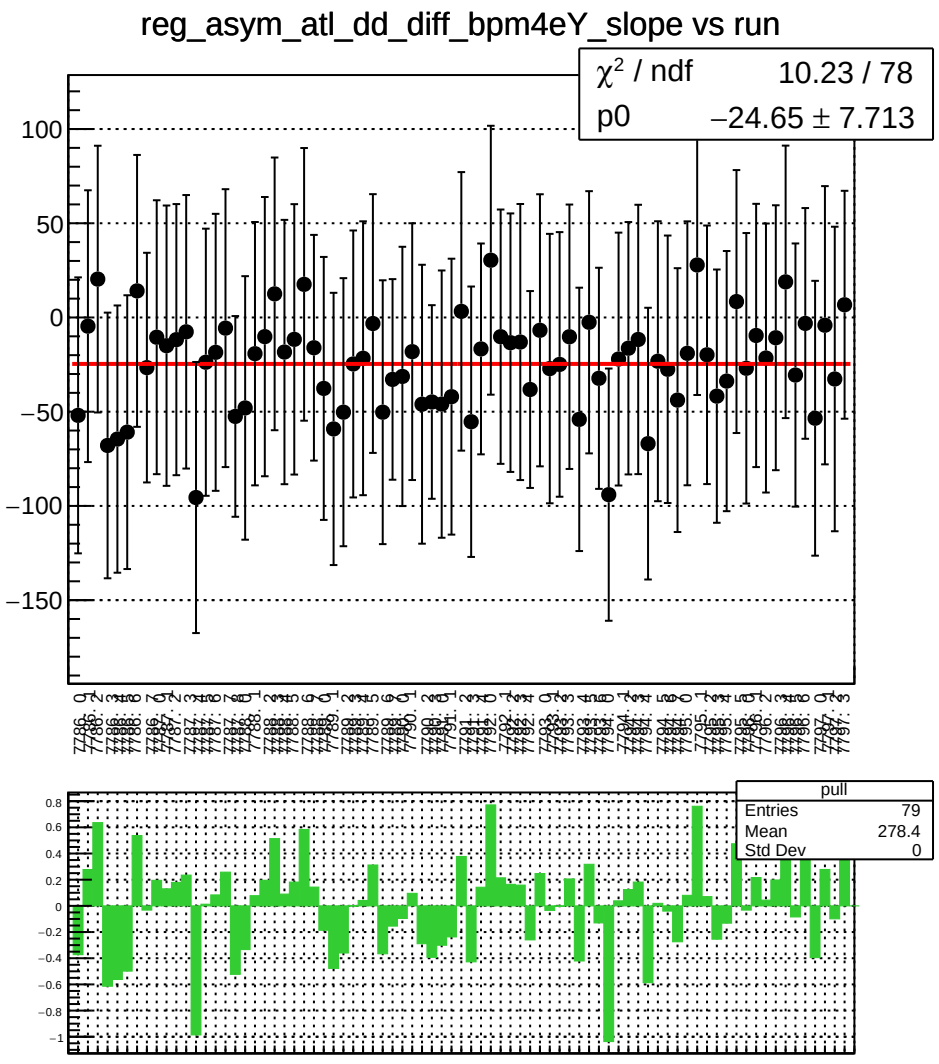

pull1D
Entries 79
Mean 0.003819
Std Dev 0.3772
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

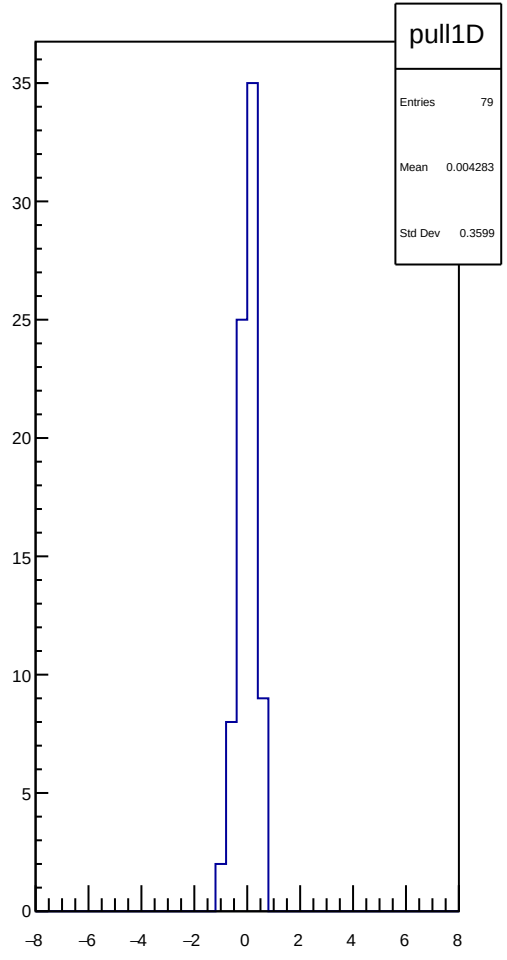

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.54 / 78
p0 −39.83 ± 6.804
pull
Entries 79
Mean 411
Std Dev 0

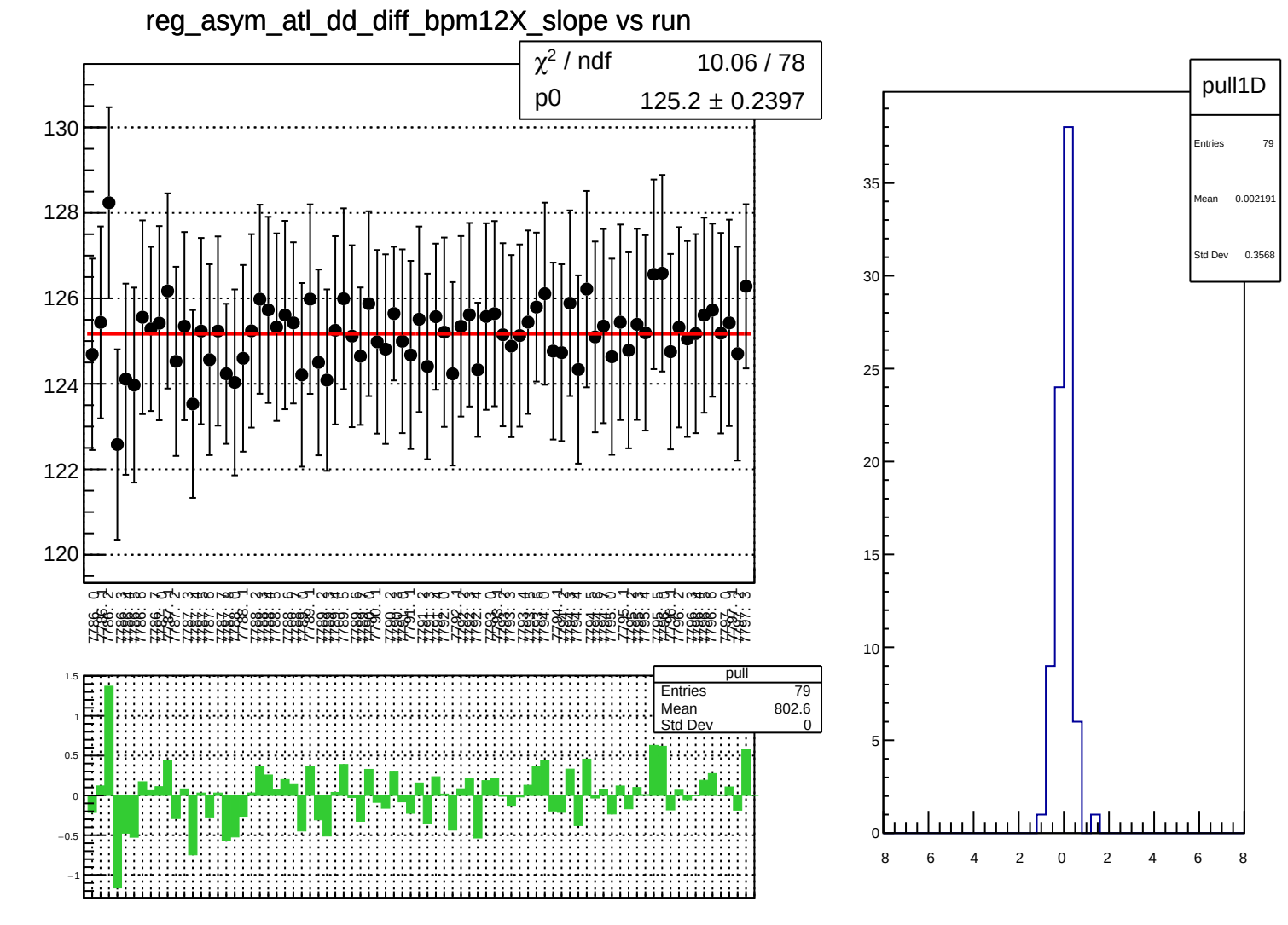

pull1D
Entries 79
Mean −0.003779
Std Dev 0.3653

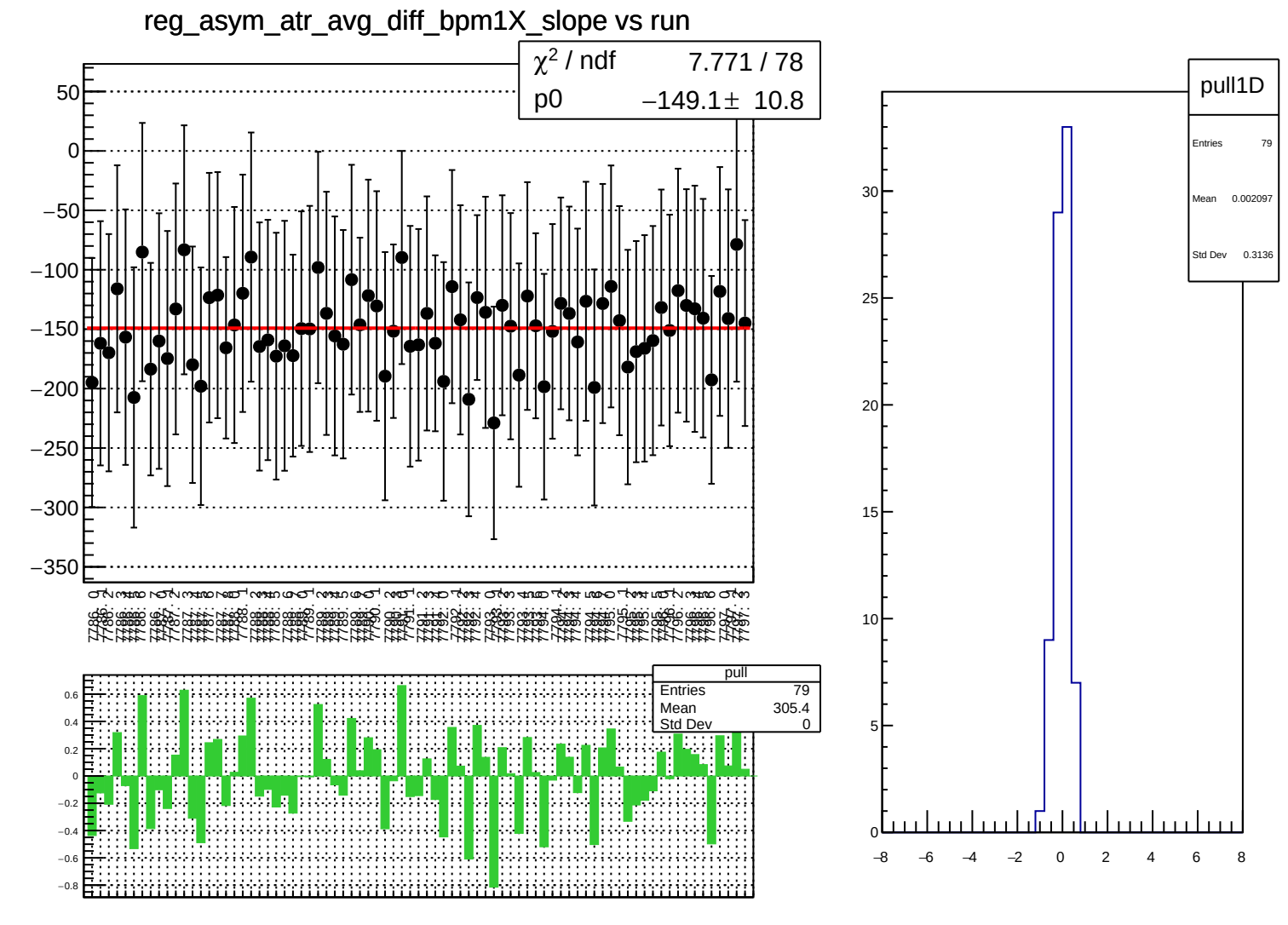

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.08 / 78
p0 −59.3 ± 5.831
pull
Entries 79
Mean 165.8
Std Dev 0

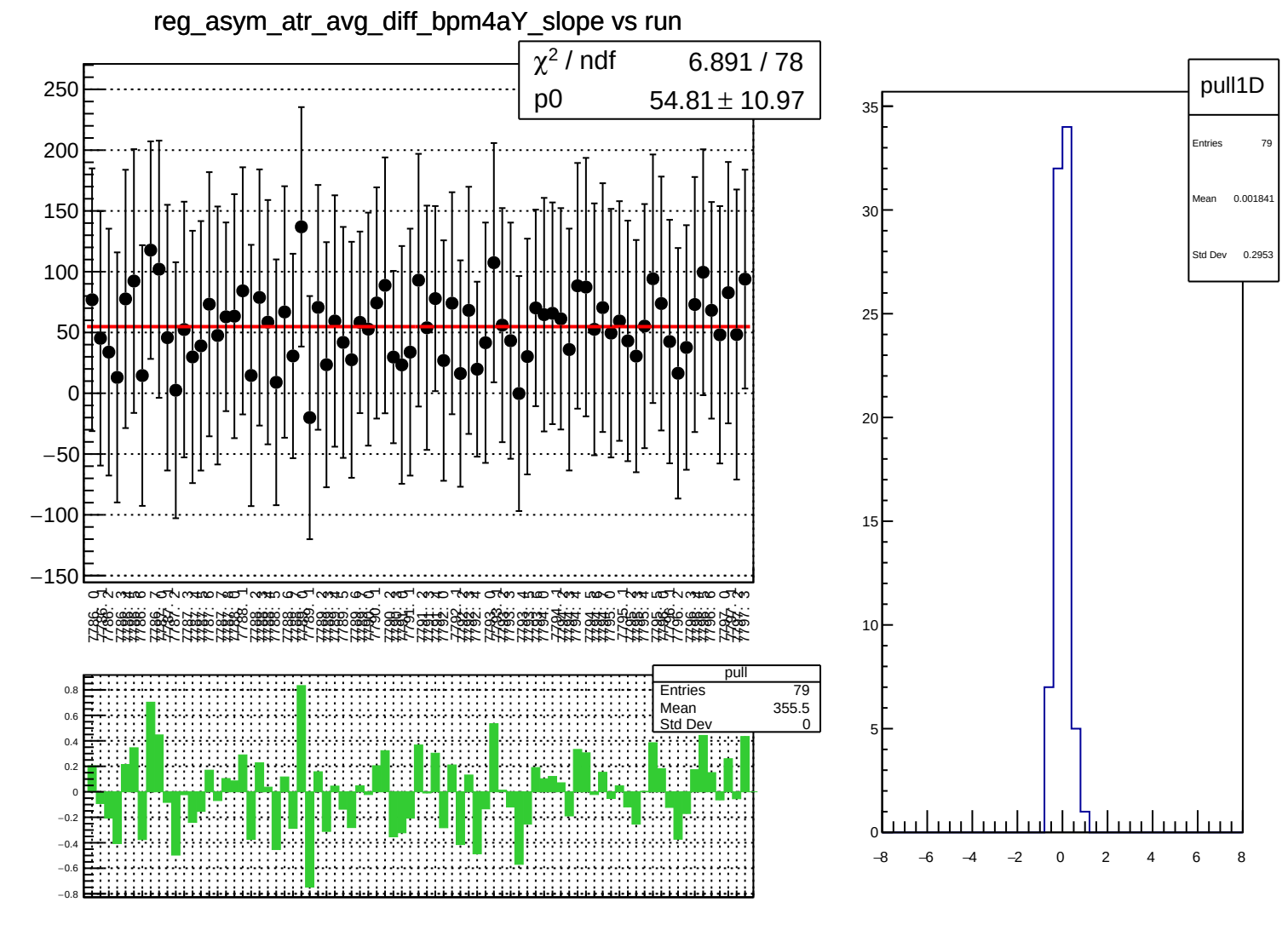

pull1D
Entries 79
Mean −0.003464
Std Dev 0.3745

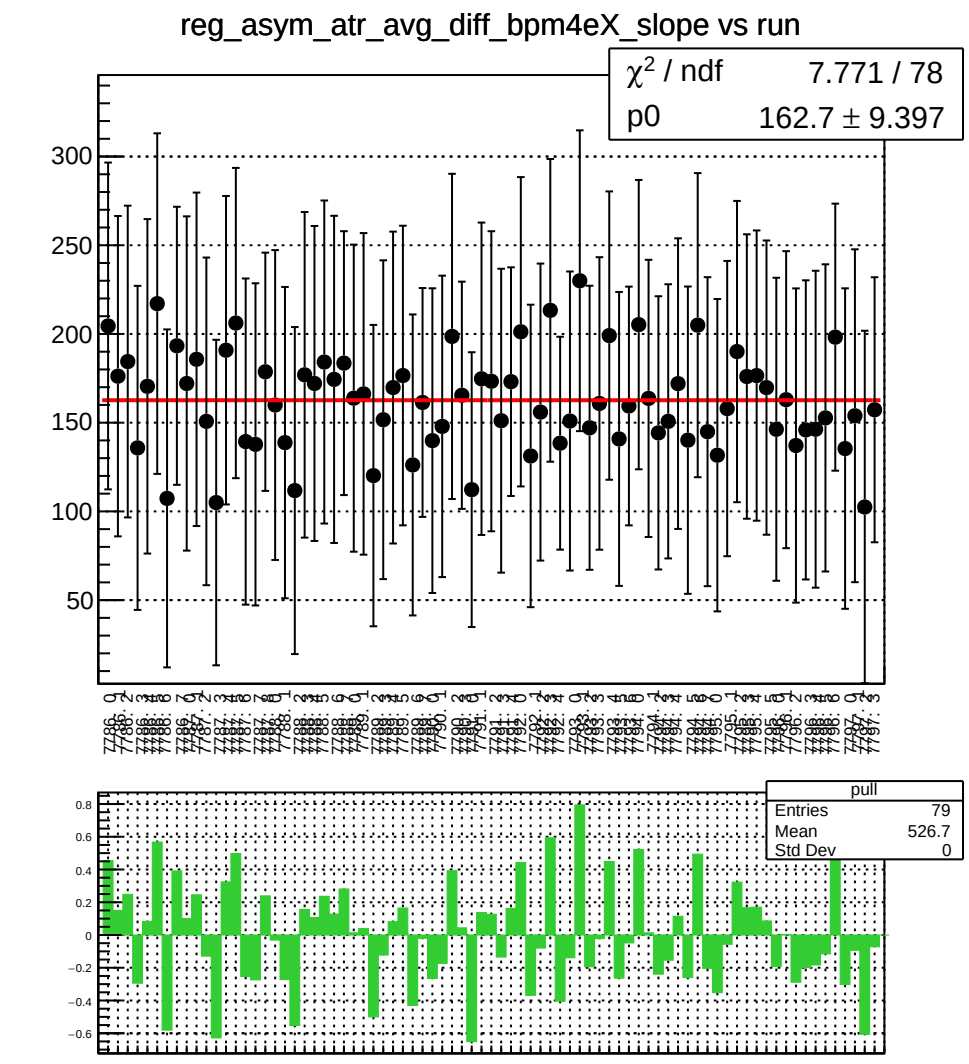

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.23 / 78
p0 −24.65 ± 7.713
pull
Entries 79
Mean 278.4
Std Dev 0

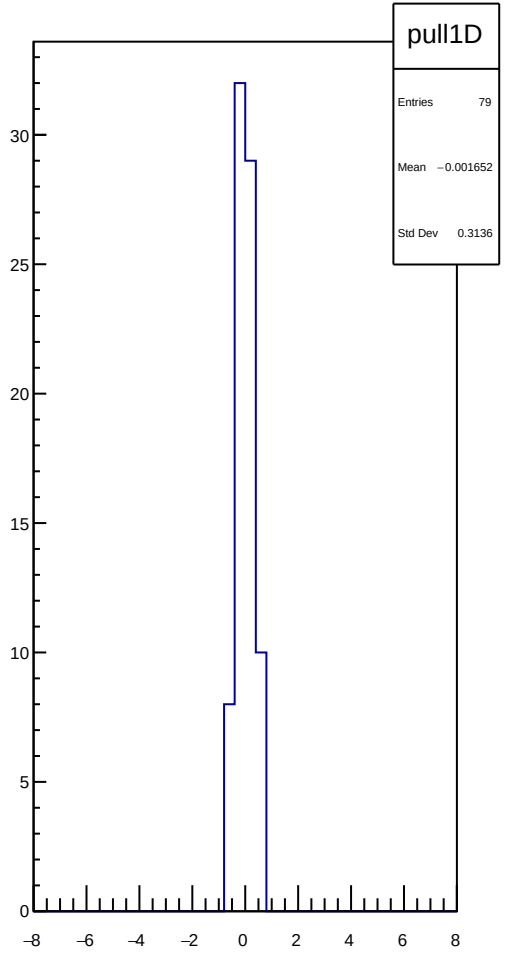

pull1D
Entries 79
Mean 0.004283
Std Dev 0.3599

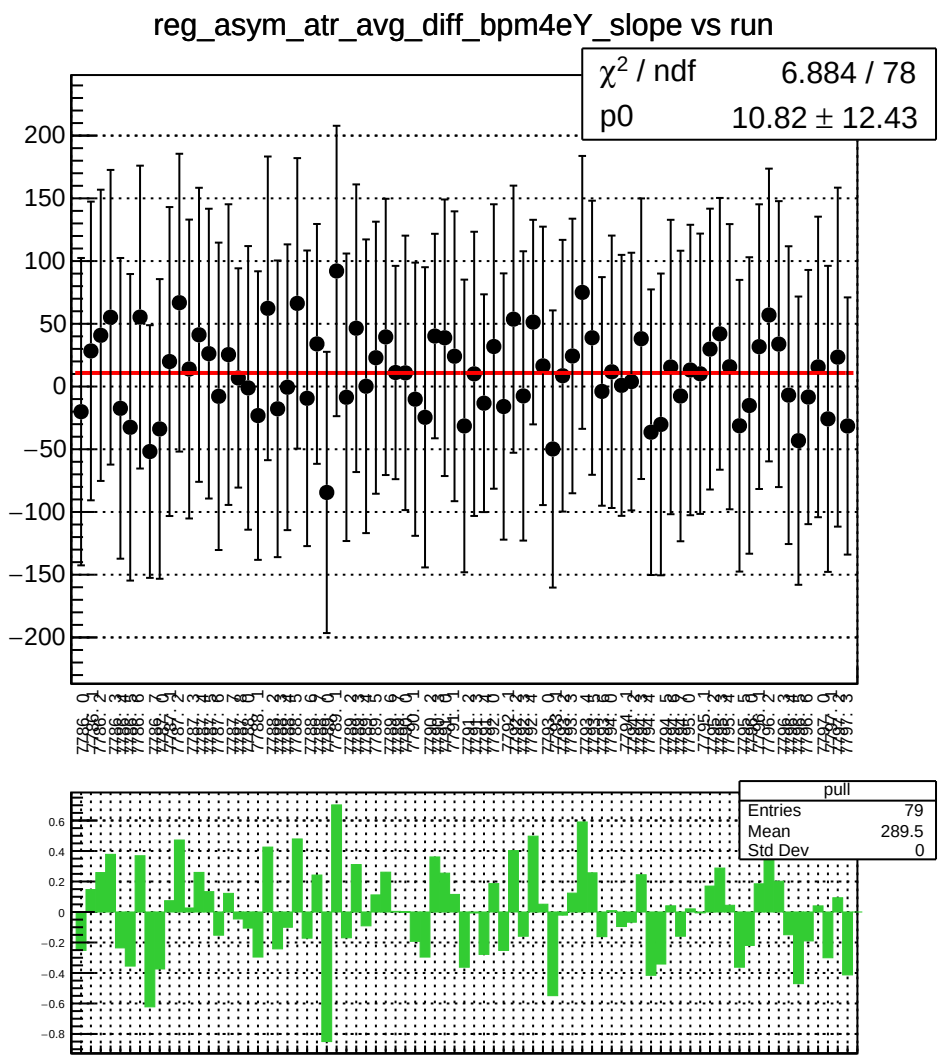

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 10.06 / 78
p0 125.2 ± 0.2397
130
128
126
124
122
120
pull
Entries 79
Mean 802.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 79
Mean 0.002191
Std Dev 0.3568
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

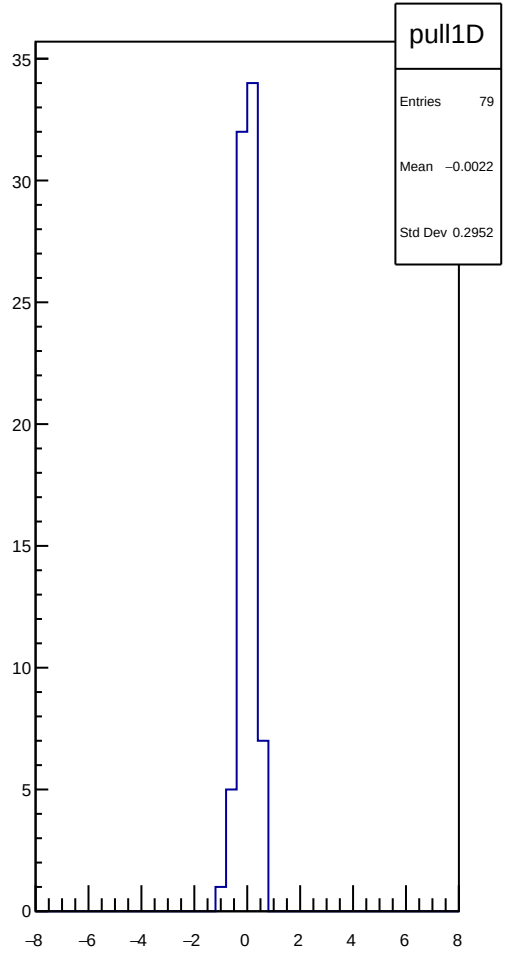

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 7.771 / 78
p0 −149.1± 10.8
pull
Entries 79
Mean 305.4
Std Dev 0
pull1D
Entries 79
Mean 0.002097
Std Dev 0.3136

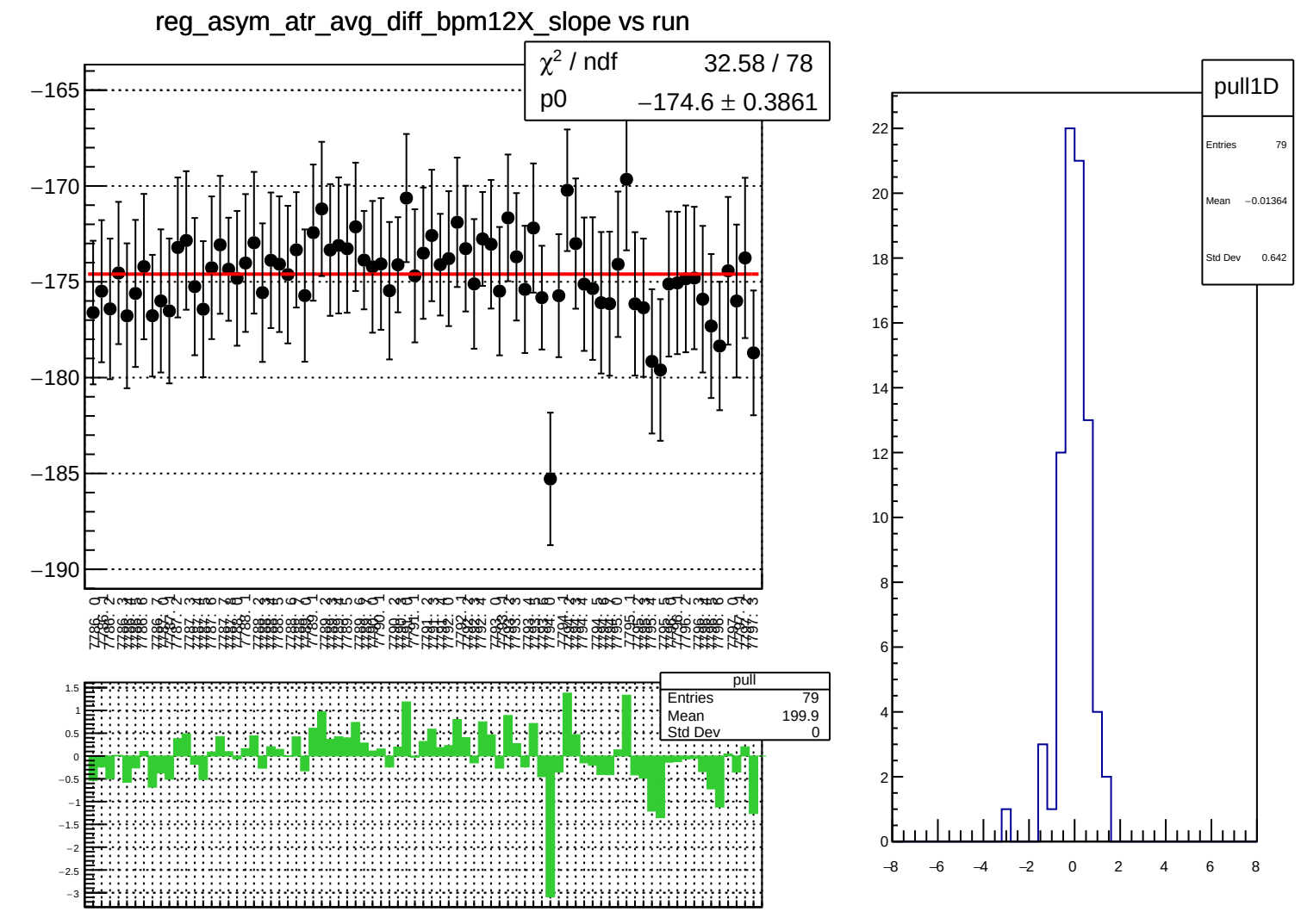

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 6.891 / 78
p0 54.81 ± 10.97
pull
Entries 79
Mean 355.5
Std Dev 0
pull1D
Entries 79
Mean 0.001841
Std Dev 0.2953

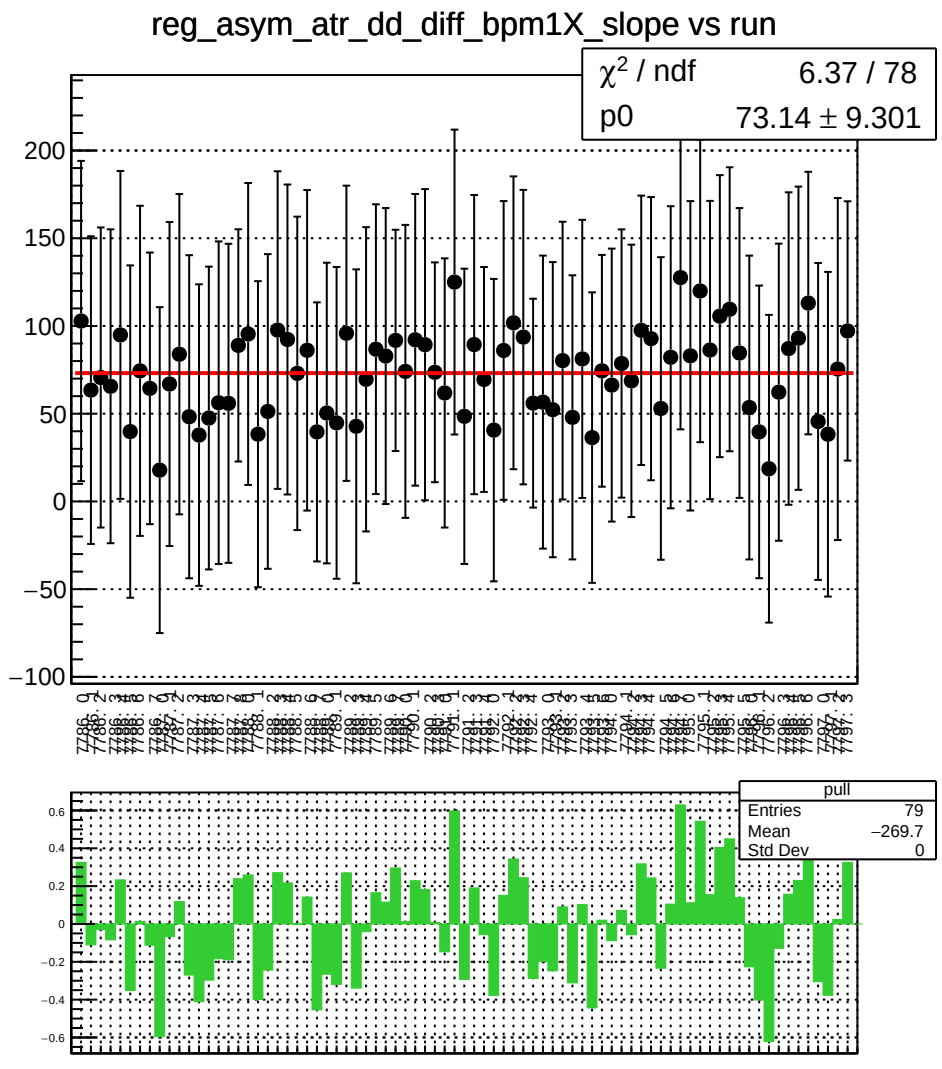

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.771 / 78
p0 162.7 ± 9.397
300
250
200
150
100
50
pull
Entries 79
Mean 526.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

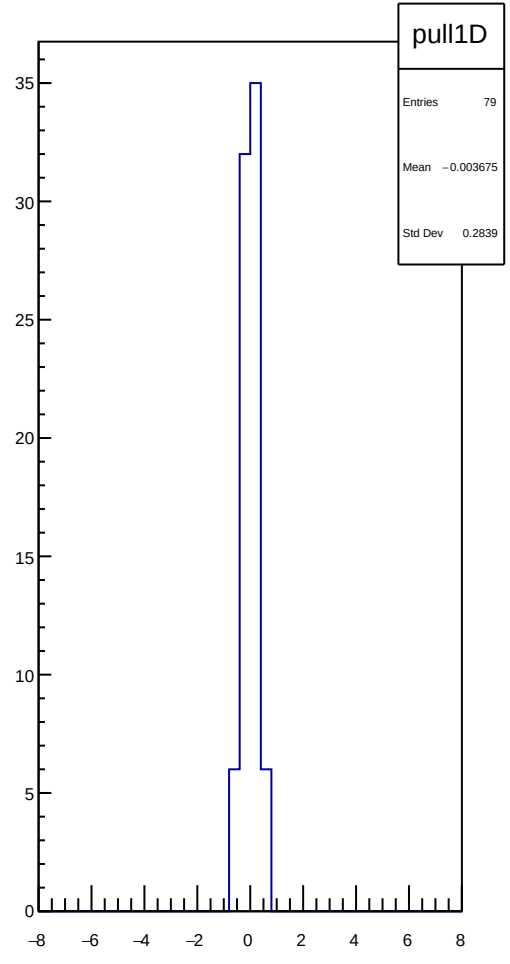

pull1D
Entries 79
Mean −0.001652
Std Dev 0.3136
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

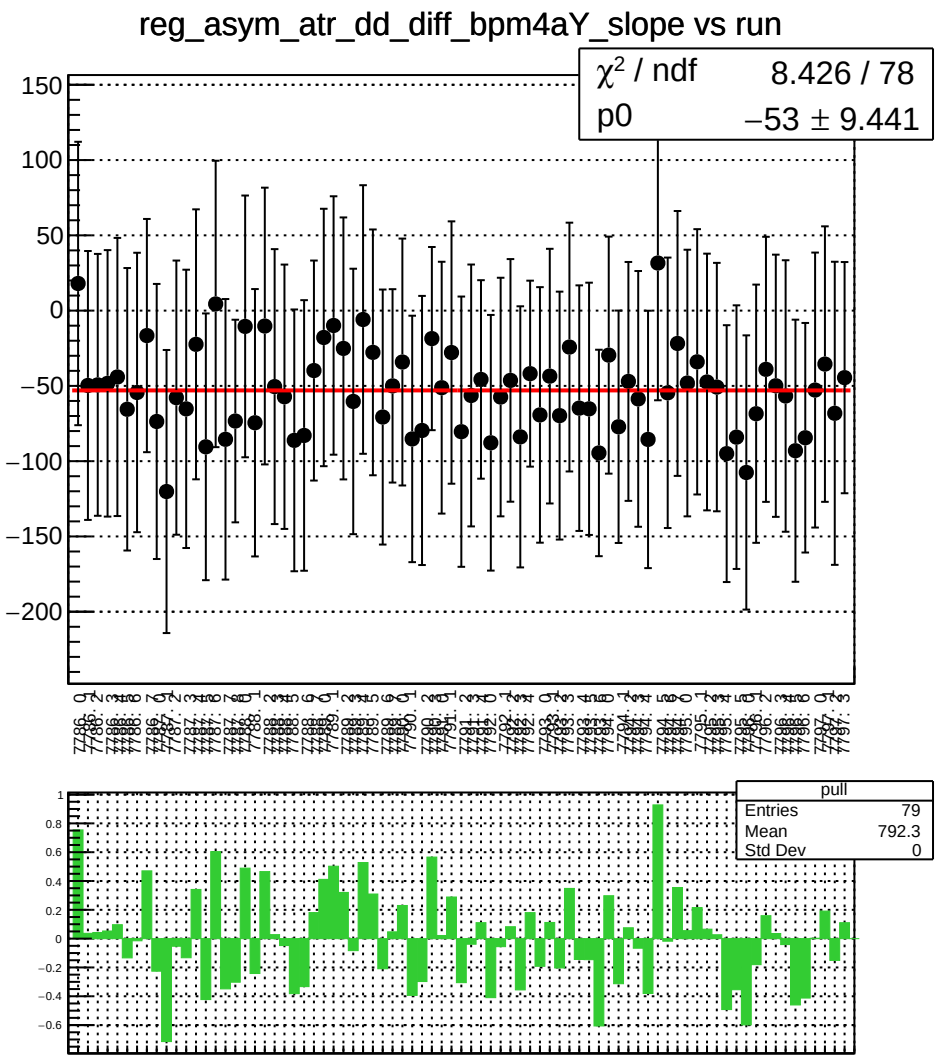

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.884 / 78
p0 10.82 ± 12.43
pull
Entries 79
Mean 289.5
Std Dev 0

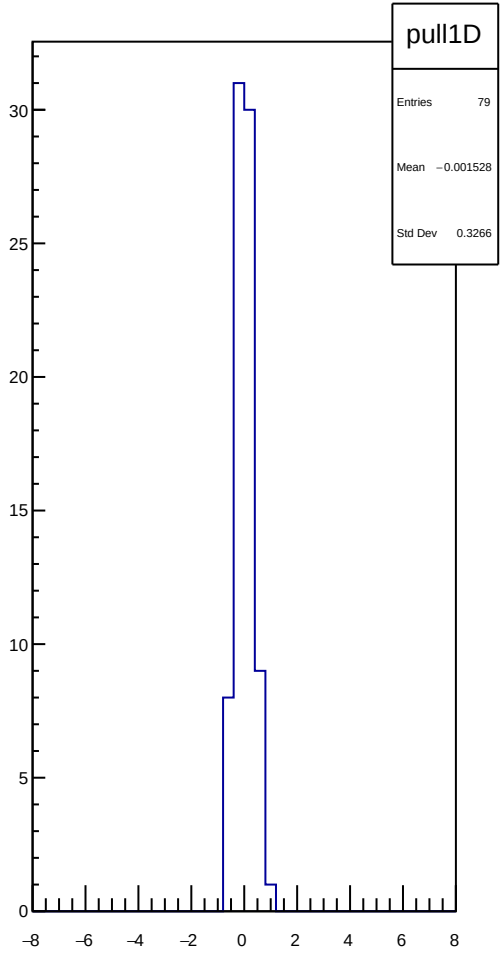

pull1D
Entries 79
Mean −0.0022
Std Dev 0.2952

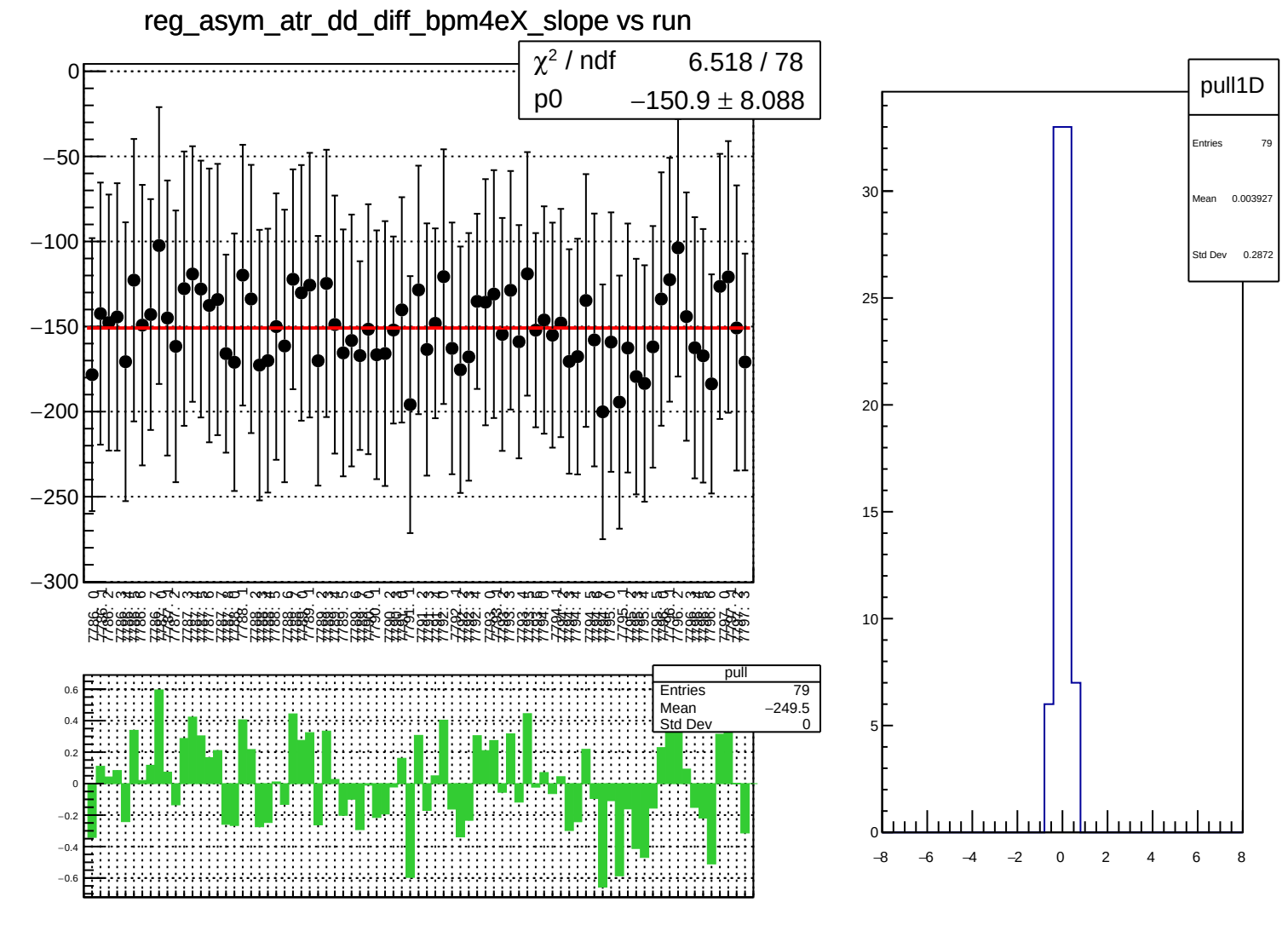

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 32.58 / 78
p0 −174.6 ± 0.3861
pull
Entries 79
Mean 199.9
Std Dev 0
pull1D
Entries 79
Mean −0.01364
Std Dev 0.642

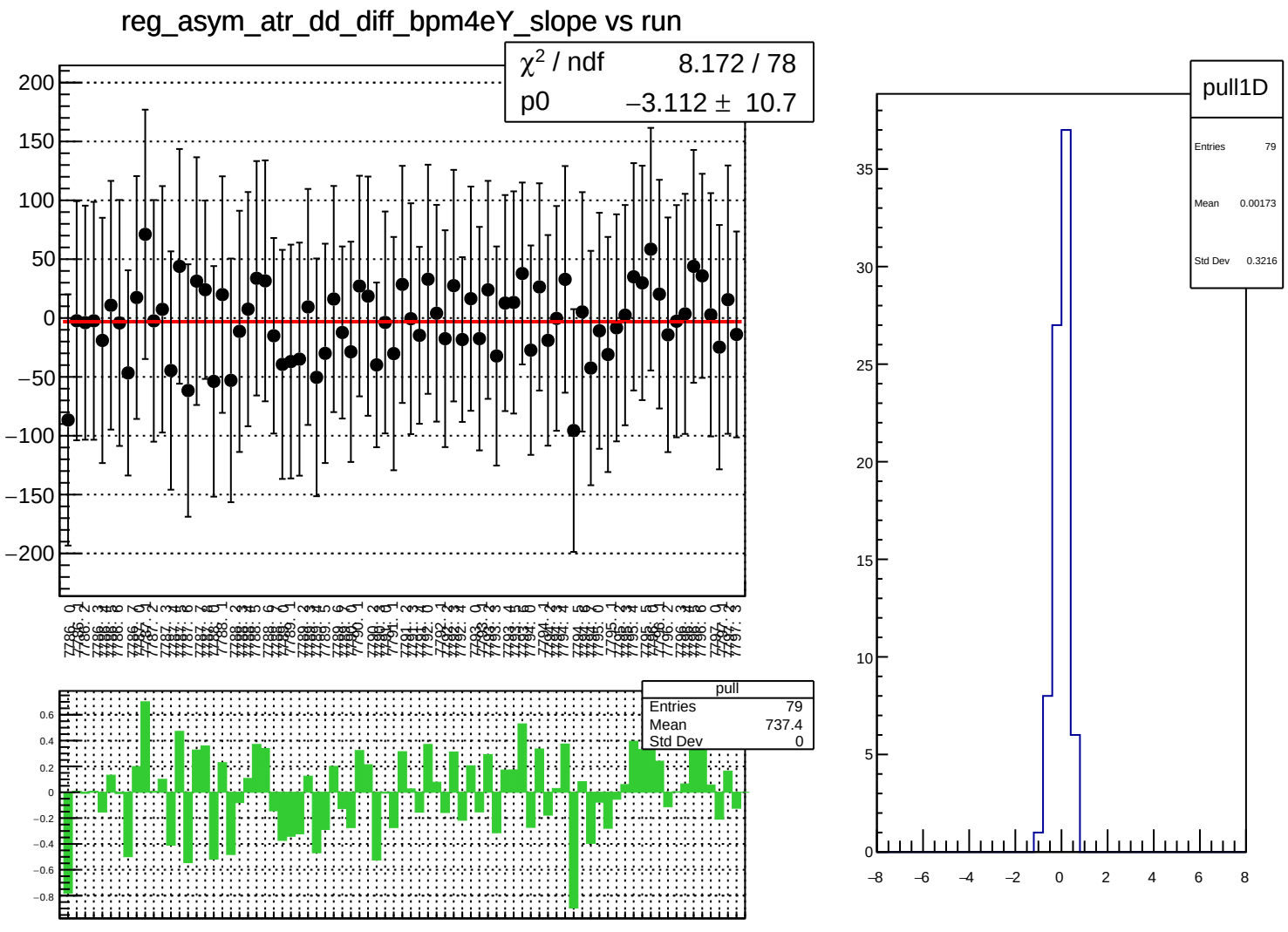

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 6.37 / 78
p0 73.14 ± 9.301
pull
Entries 79
Mean −269.7
Std Dev 0

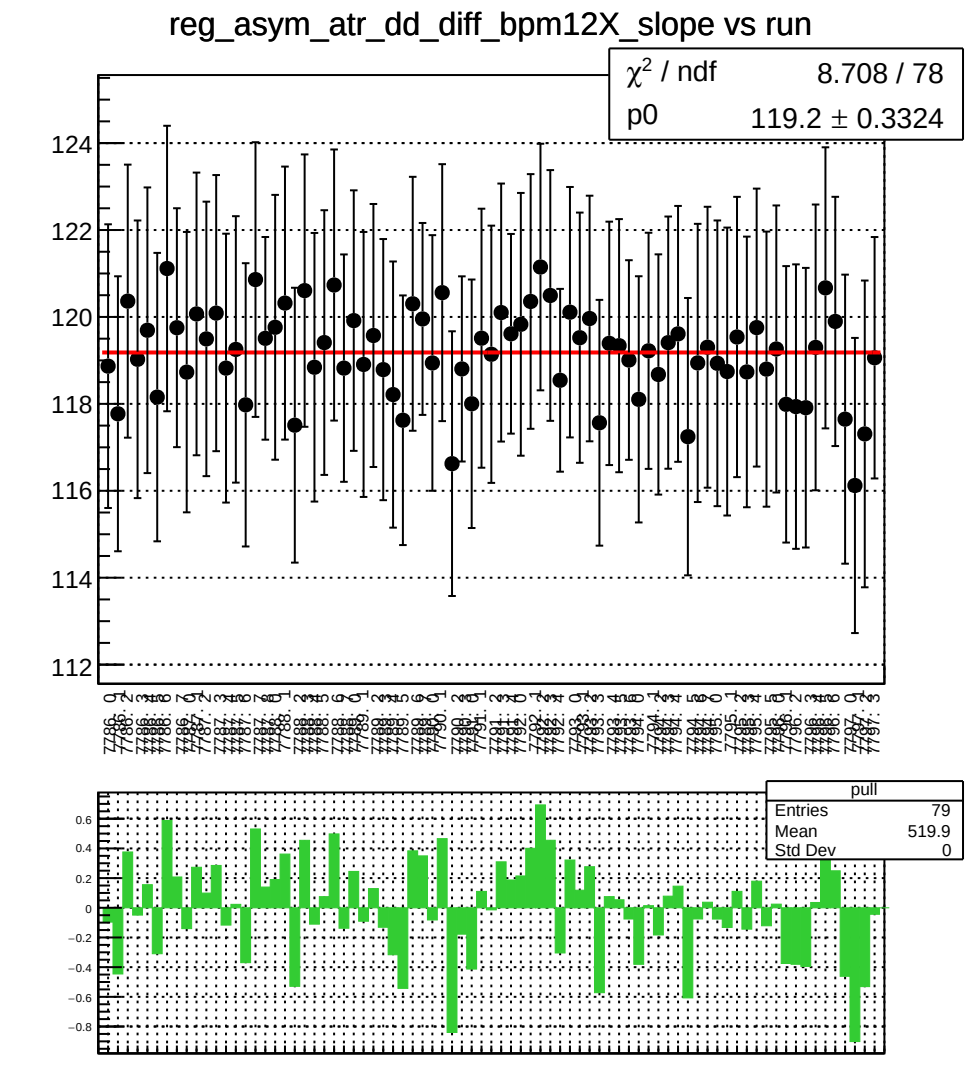

pull1D
Entries 79
Mean −0.003675
Std Dev 0.2839

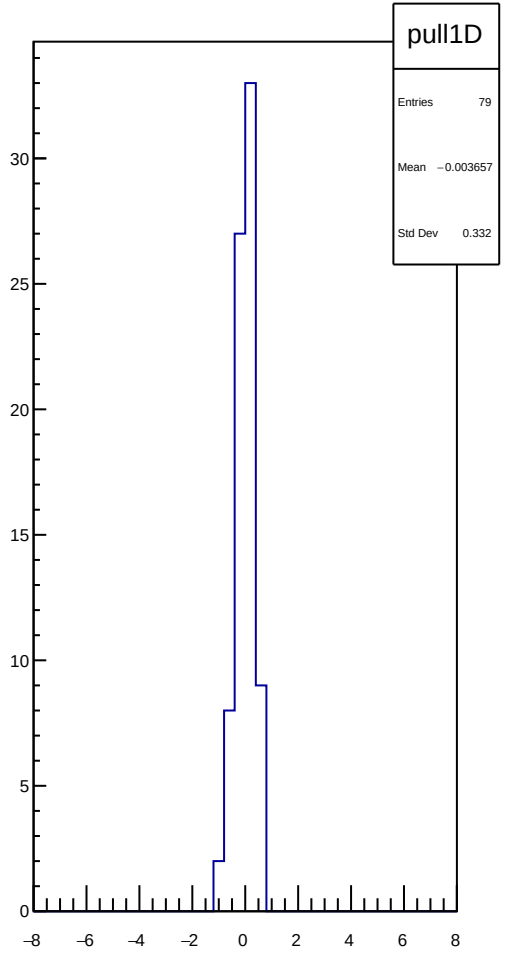

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.426 / 78
p0 −53 ± 9.441
150
100
50
0
−50
−100
−150
−200
pull
Entries 79
Mean 792.3
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

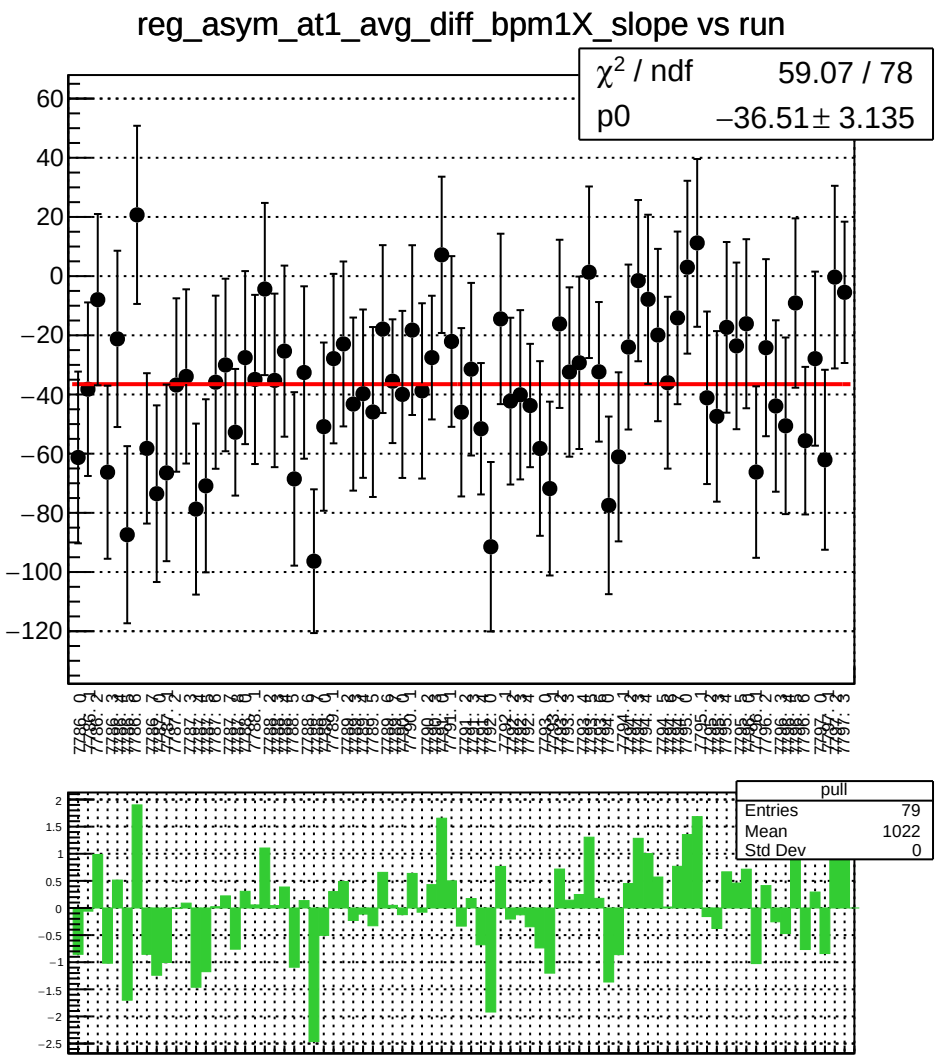

pull1D
Entries 79
Mean −0.001528
Std Dev 0.3266
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

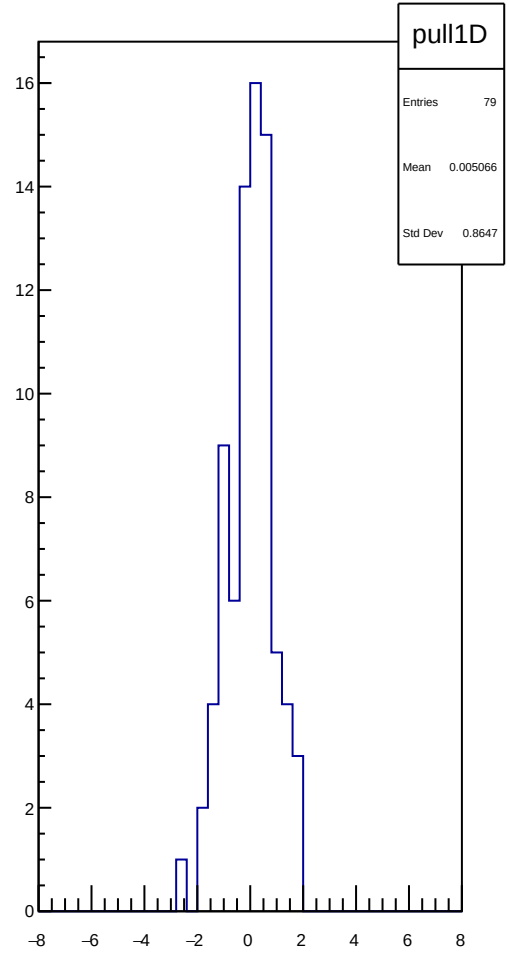

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.518 / 78
p0 −150.9 ± 8.088
pull
Entries 79
Mean −249.5
Std Dev 0
pull1D
Entries 79
Mean 0.003927
Std Dev 0.2872

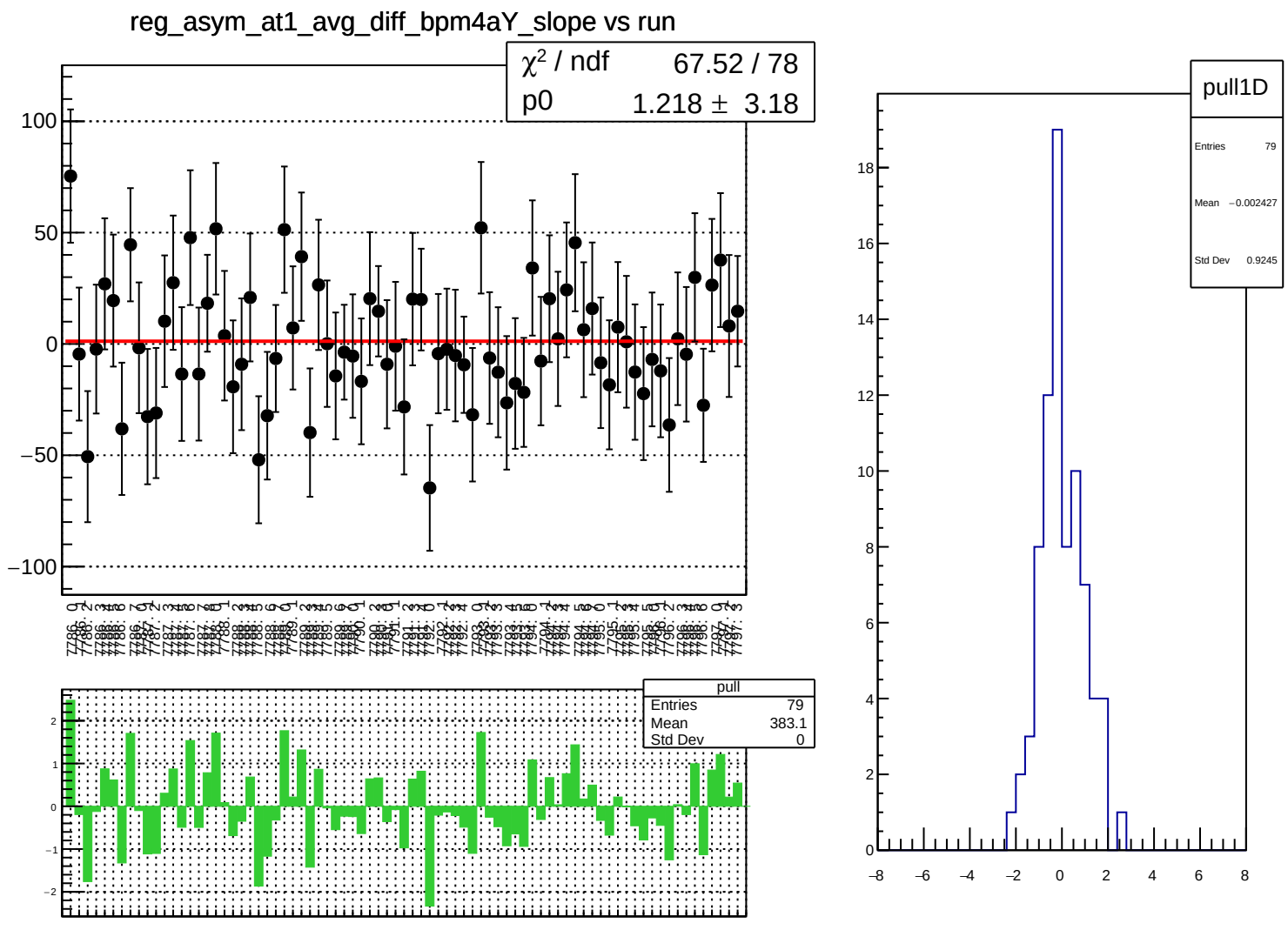

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.172 / 78
p0 −3.112 ± 10.7
pull
Entries 79
Mean 737.4
Std Dev 0
pull1D
Entries 79
Mean 0.00173
Std Dev 0.3216

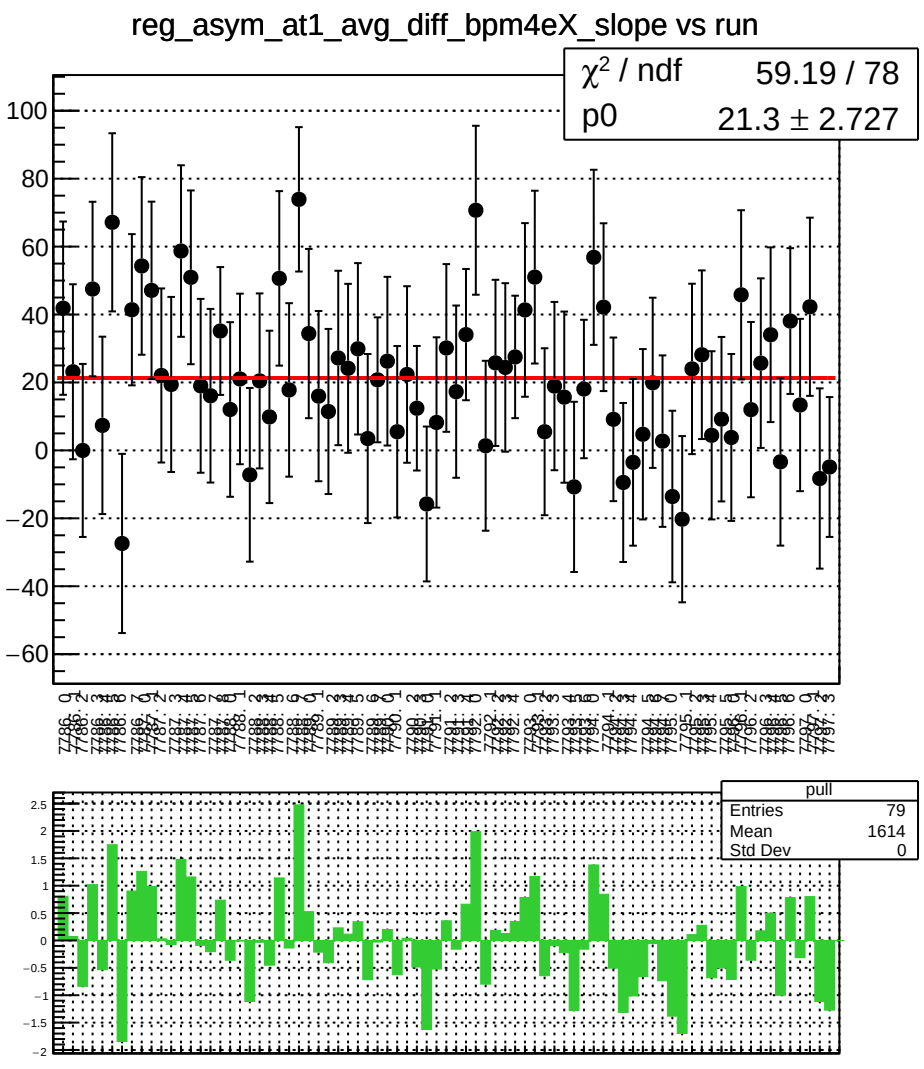

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 8.708 / 78
p0 119.2 ± 0.3324
124
122
120
118
116
114
112
pull
Entries 79
Mean 519.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

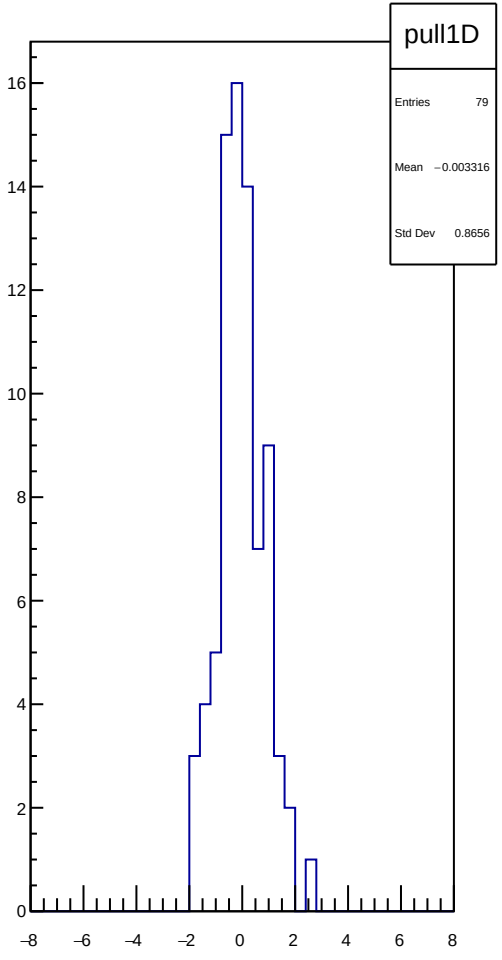

pull1D
Entries 79
Mean −0.003657
Std Dev 0.332
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

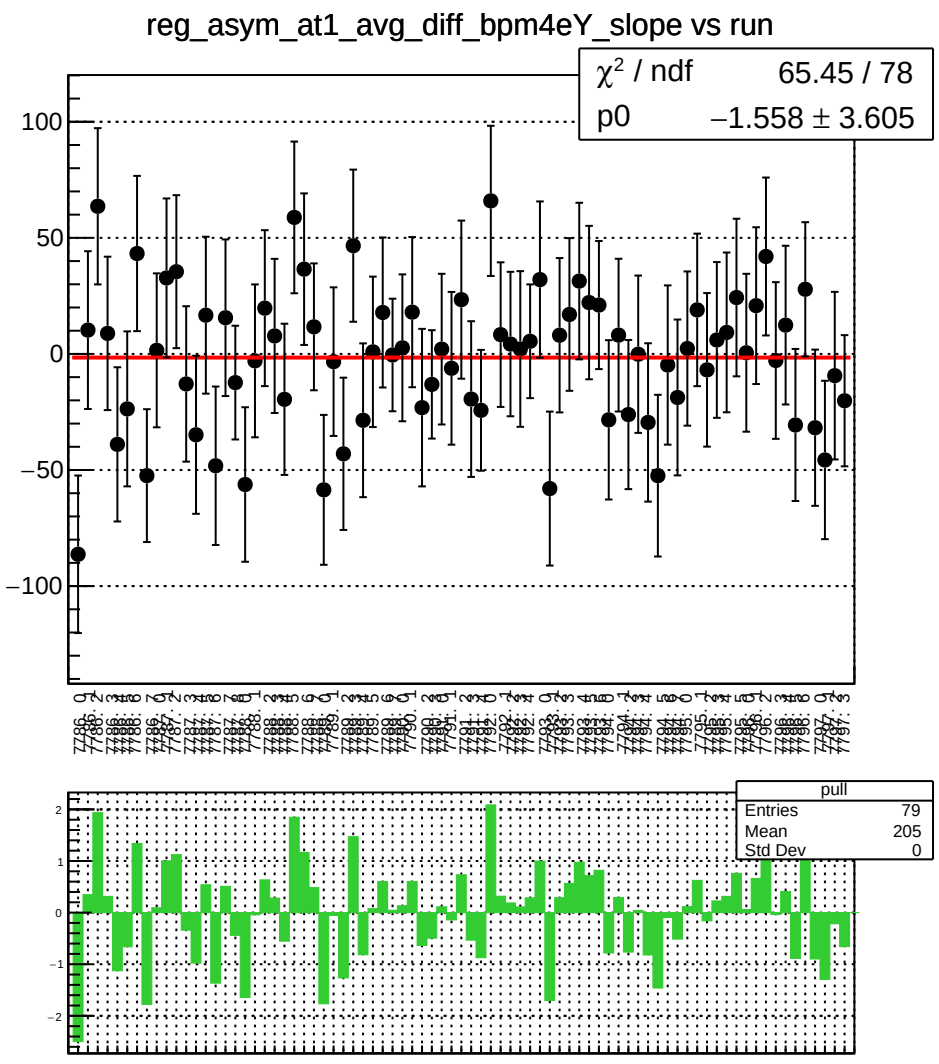

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 59.07 / 78
p0 −36.51 ± 3.135
pull
Entries 79
Mean 1022
Std Dev 0

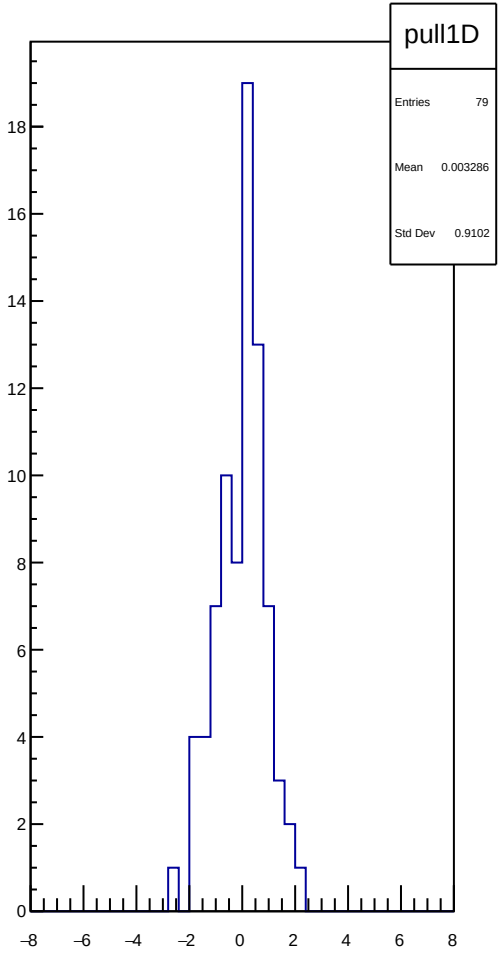

pull1D
Entries 79
Mean 0.005066
Std Dev 0.8647

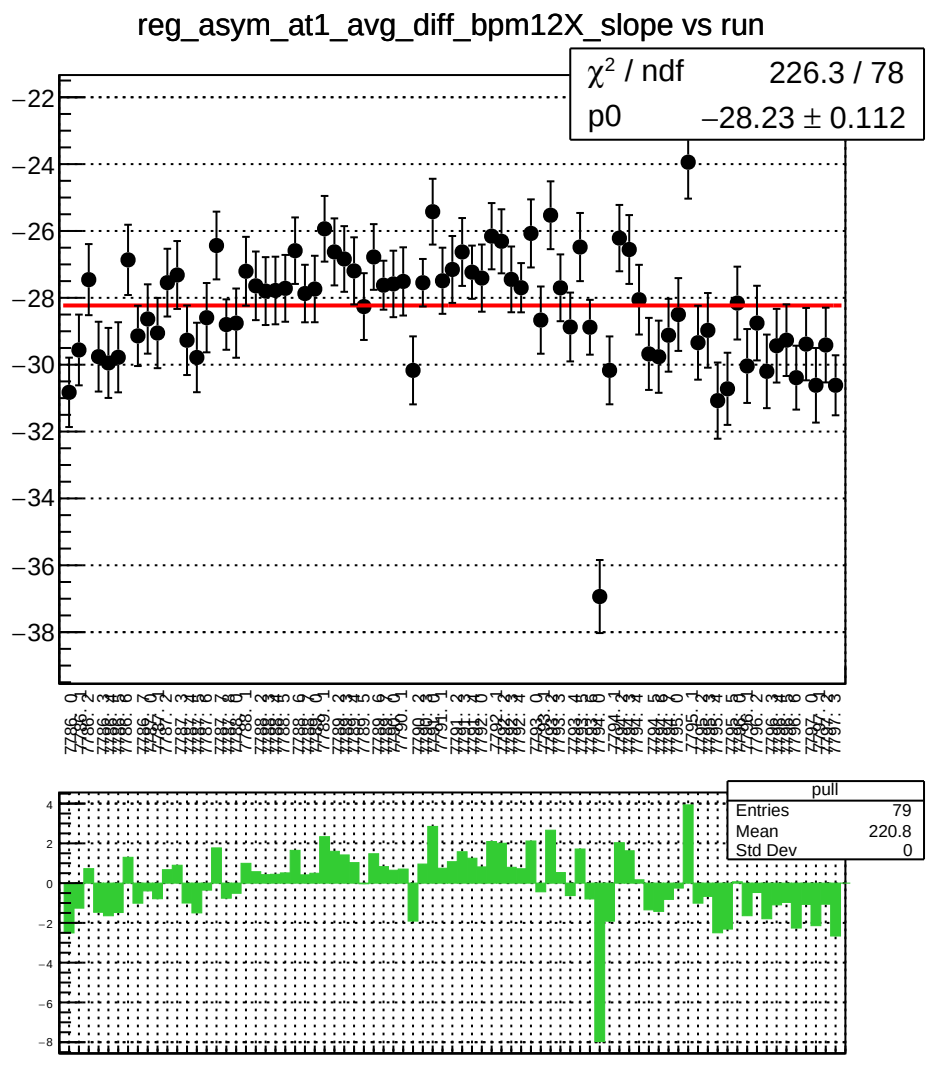

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.52 / 78
p0 1.218 ± 3.18
pull
Entries 79
Mean 383.1
Std Dev 0
pull1D
Entries 79
Mean −0.002427
Std Dev 0.9245

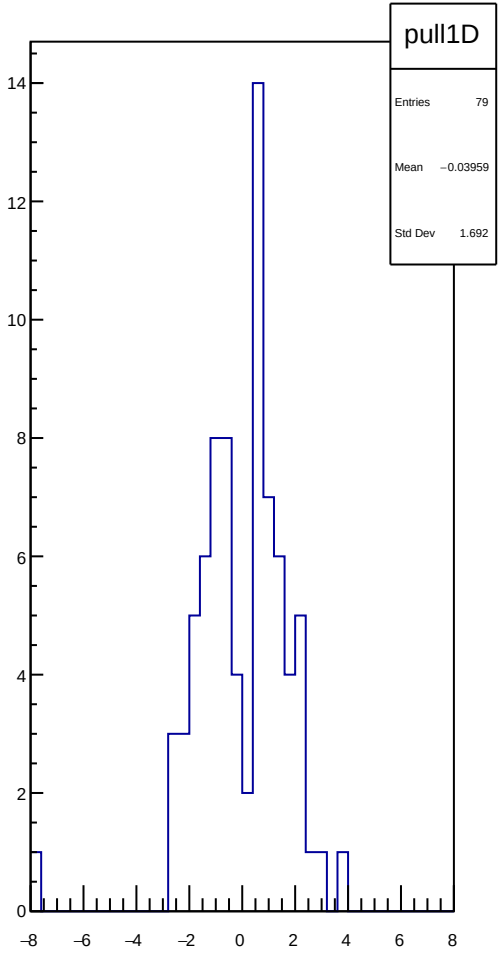

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.19 / 78
p0 21.3 ± 2.727
pull
Entries 79
Mean 1614
Std Dev 0

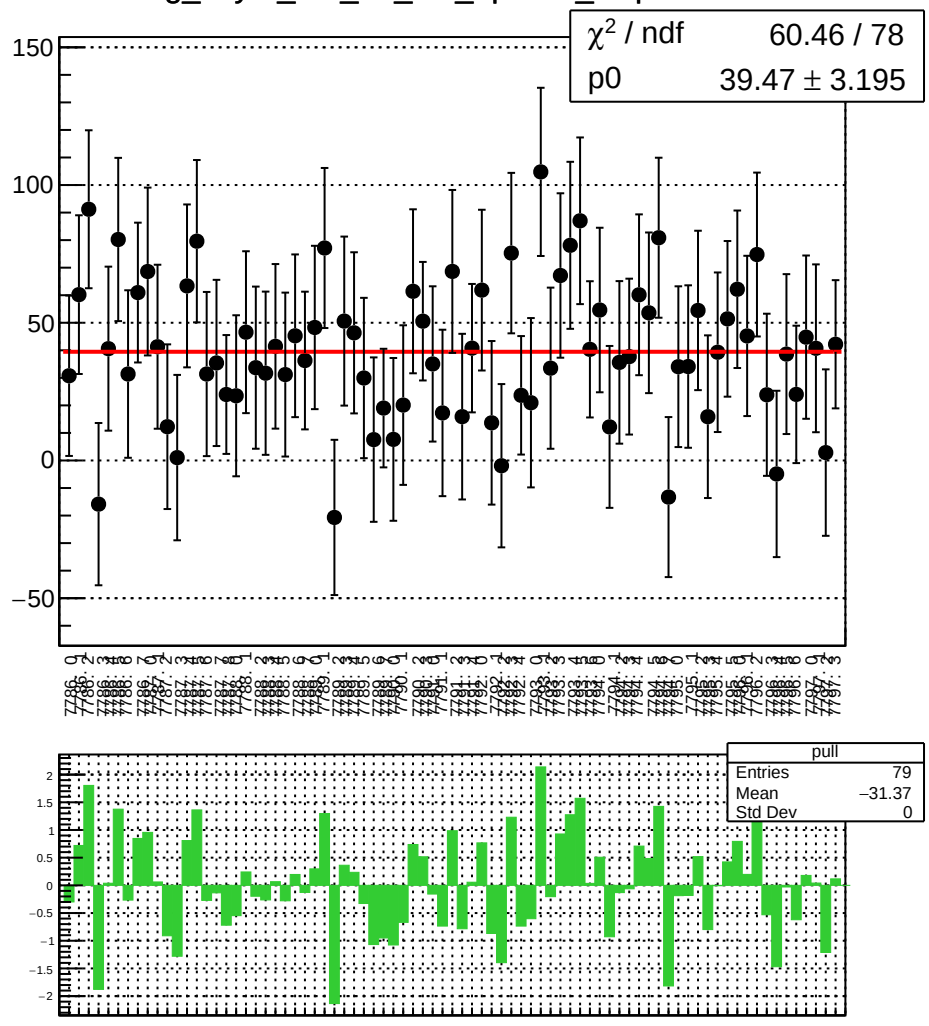

pull1D
Entries 79
Mean −0.003316
Std Dev 0.8656

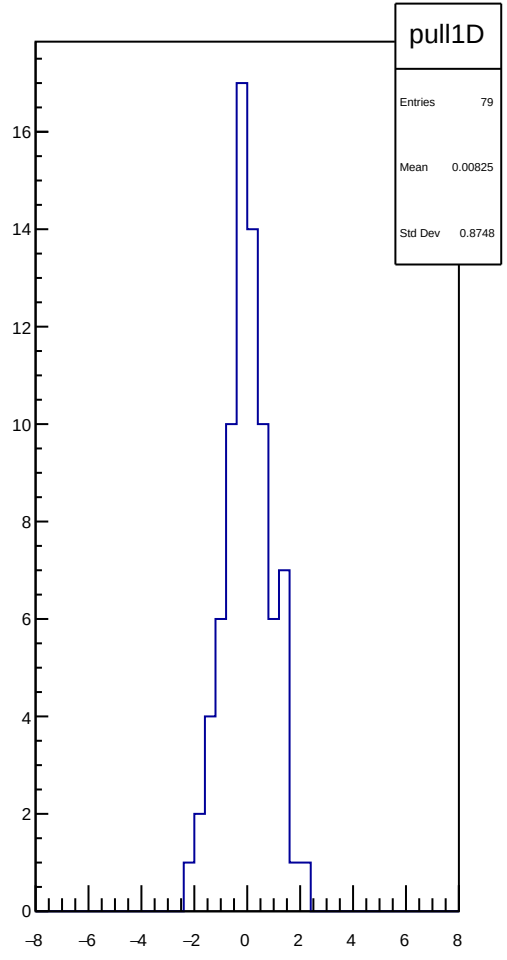

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 65.45 / 78
p0 −1.558 ± 3.605
pull
Entries 79
Mean 205
Std Dev 0

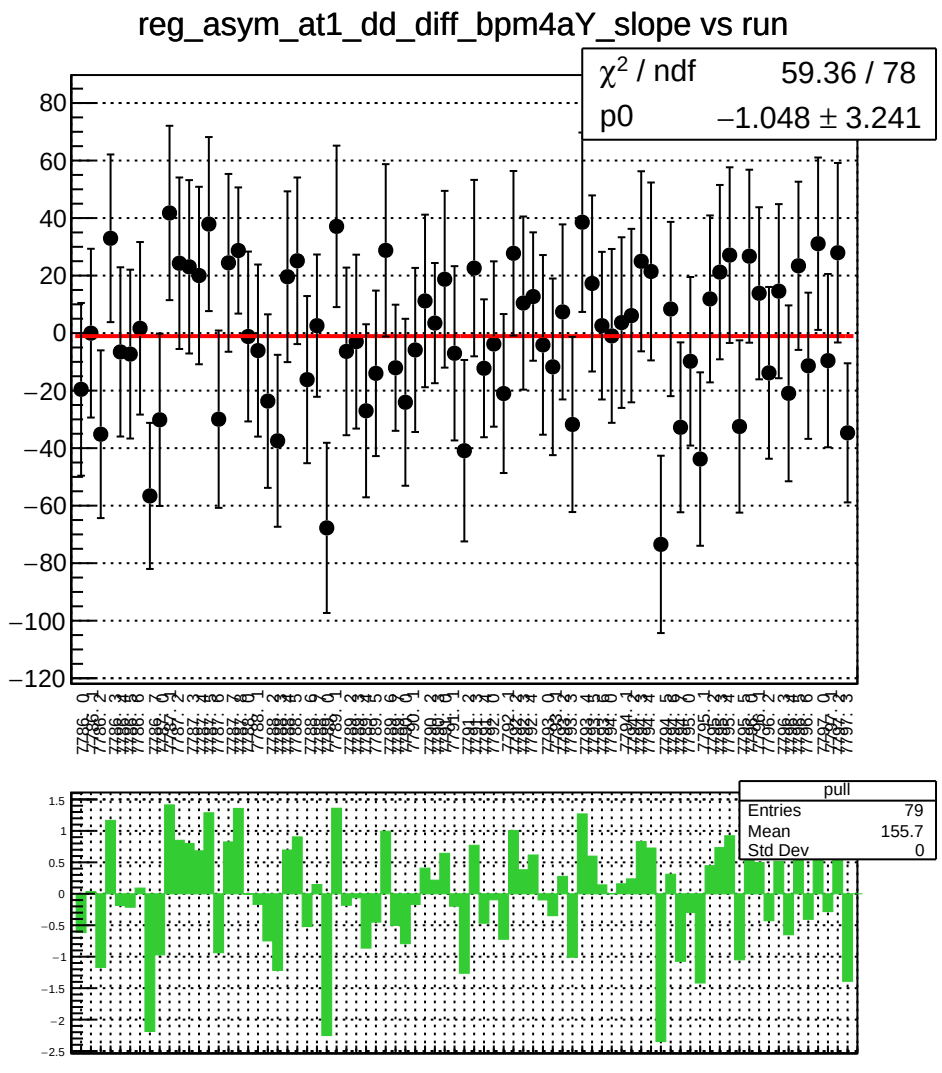

pull1D
Entries 79
Mean 0.003286
Std Dev 0.9102

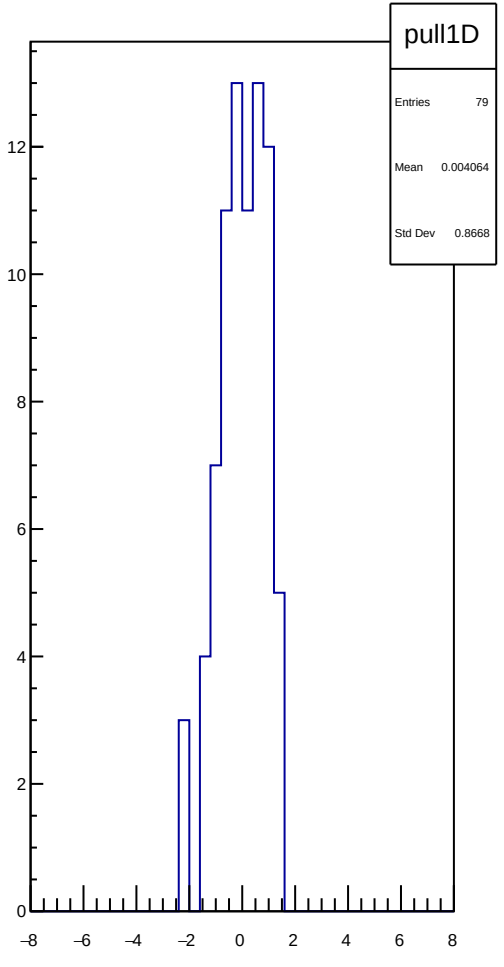

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 226.3 / 78
p0 −28.23 ± 0.112
pull
Entries 79
Mean 220.8
Std Dev 0

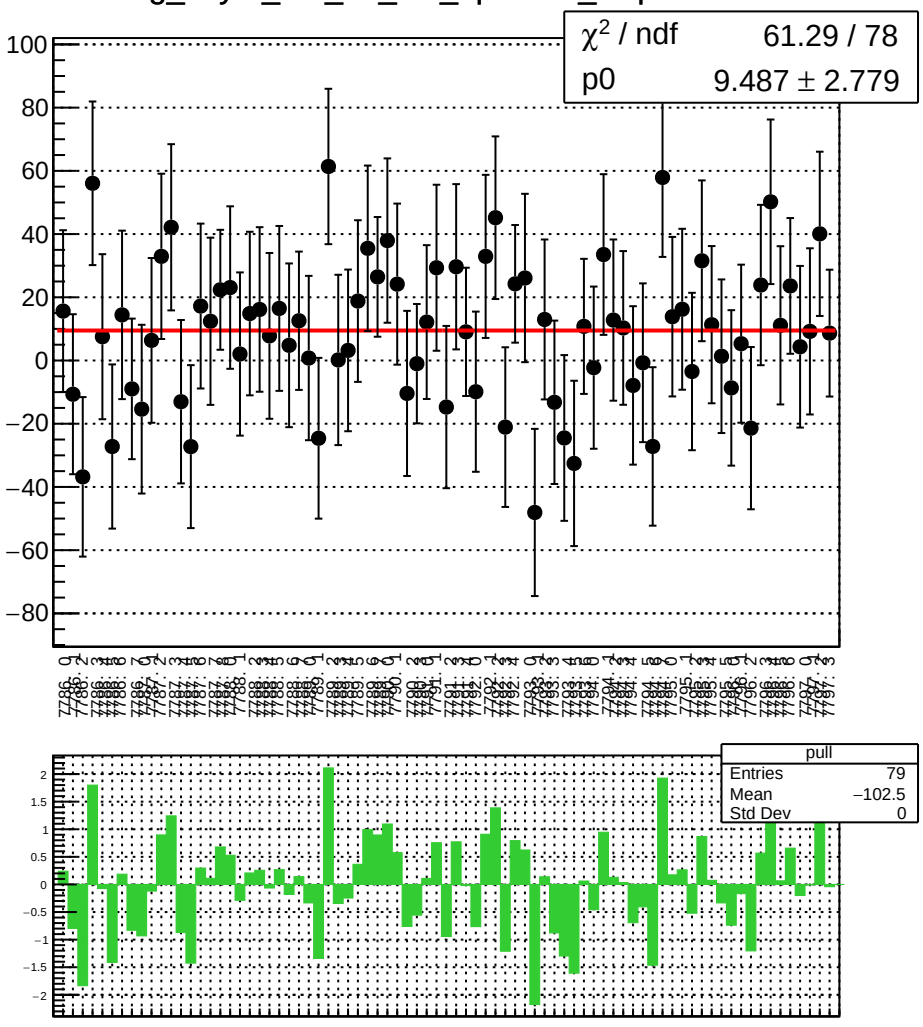

pull1D
Entries 79
Mean −0.03959
Std Dev 1.692

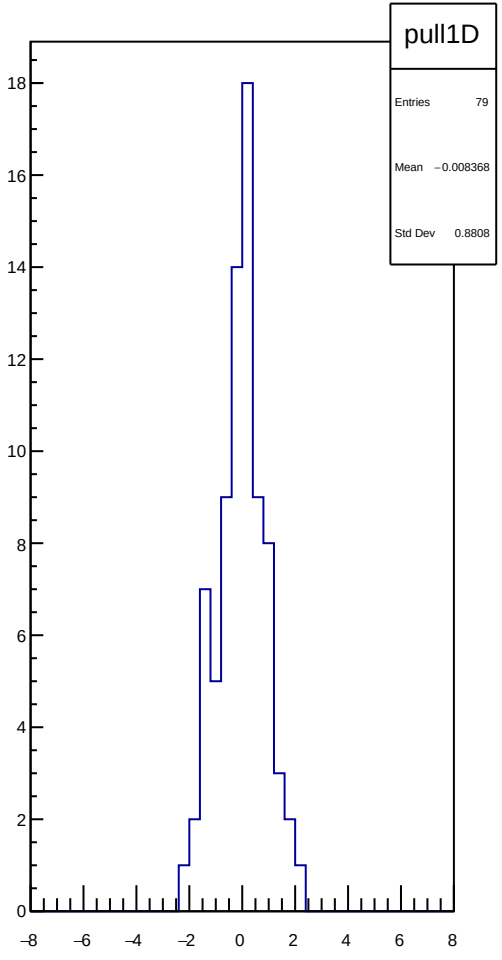

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 60.46 / 78
p0 39.47 ± 3.195
150
100
50
0
−50
pull
Entries 79
Mean −31.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

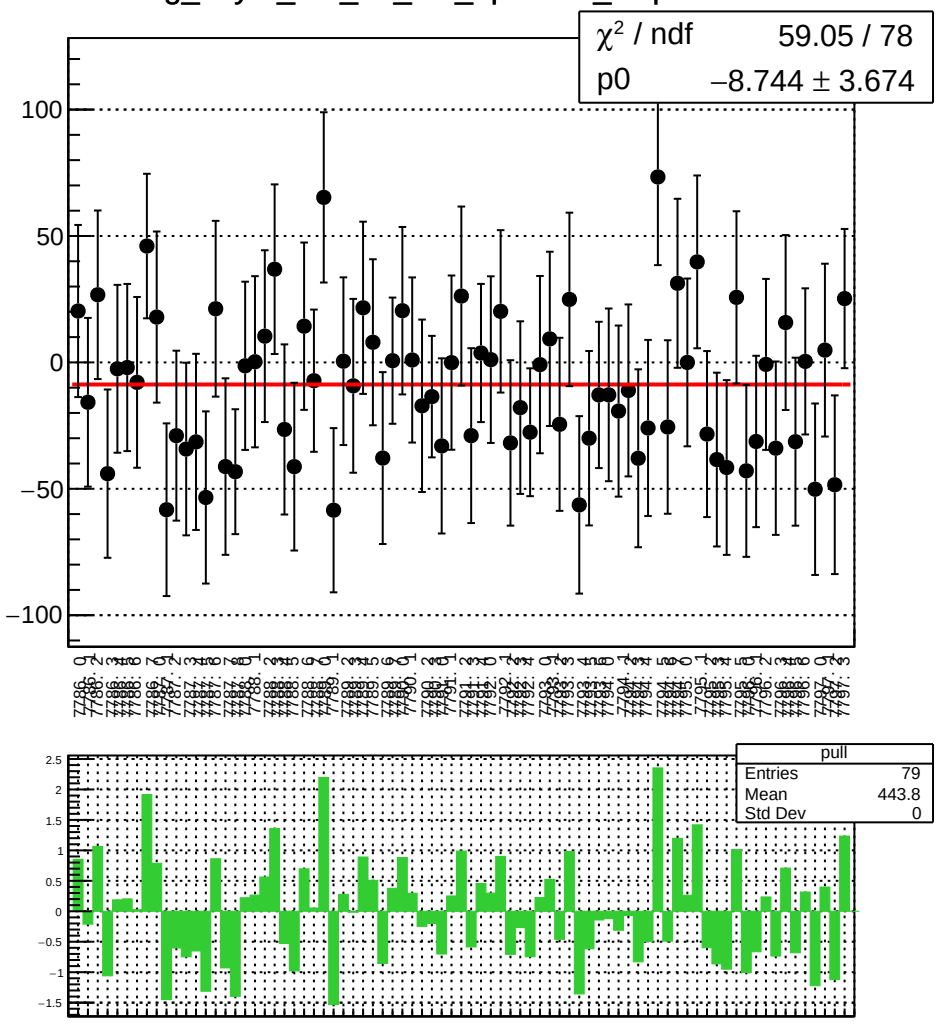

pull1D
Entries 79
Mean 0.00825
Std Dev 0.8748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

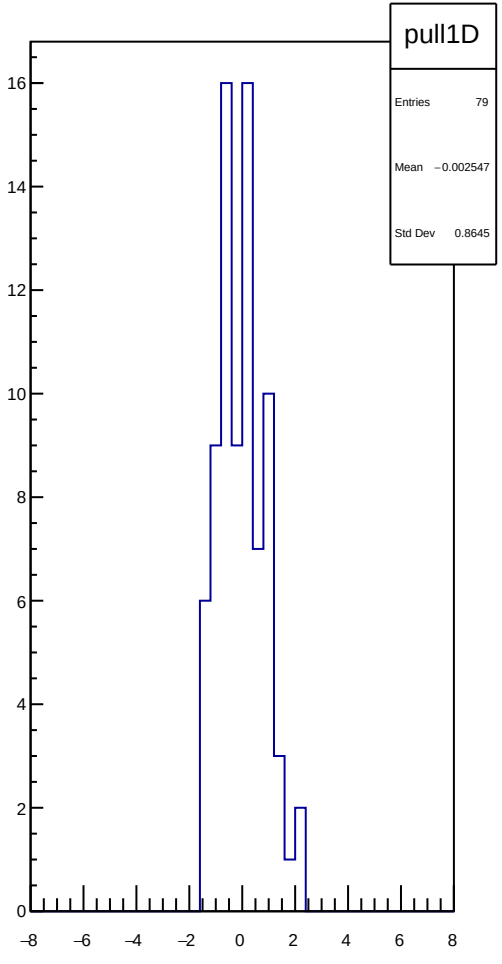

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.36 / 78
p0 −1.048 ± 3.241
pull
Entries 79
Mean 155.7
Std Dev 0

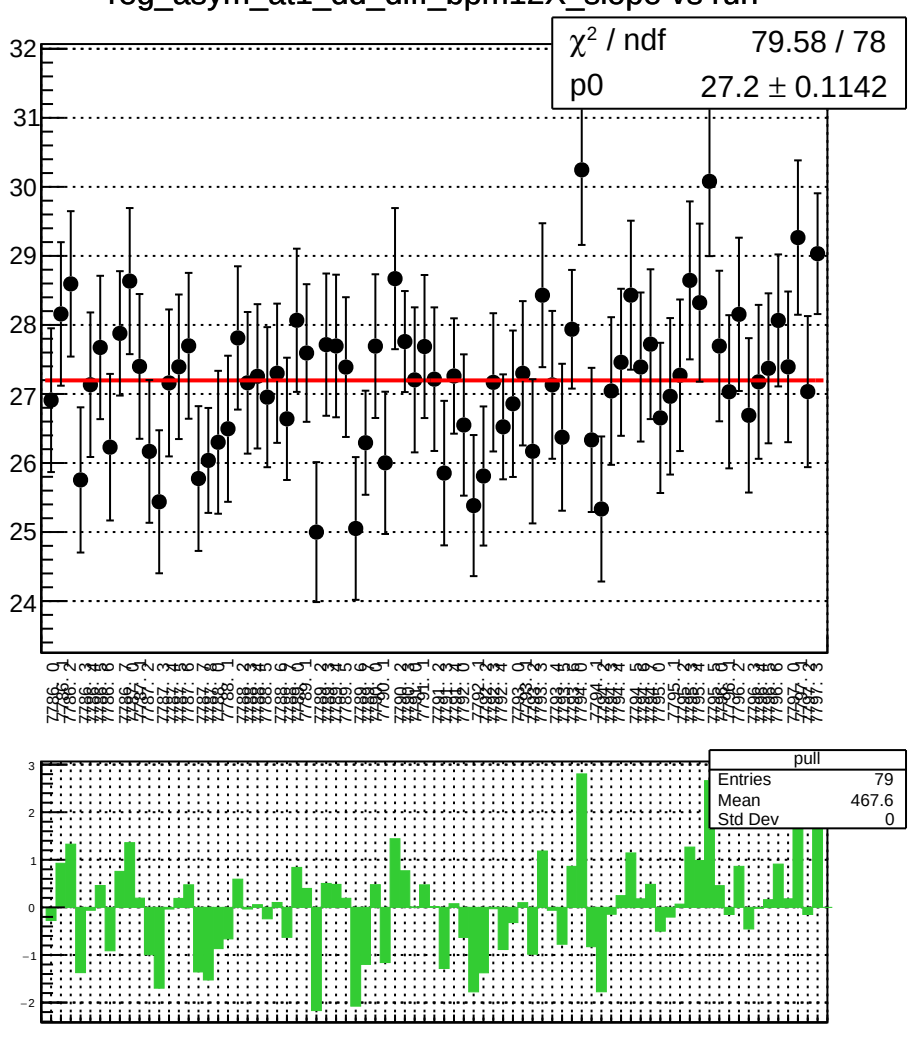

pull1D
Entries 79
Mean 0.004064
Std Dev 0.8668

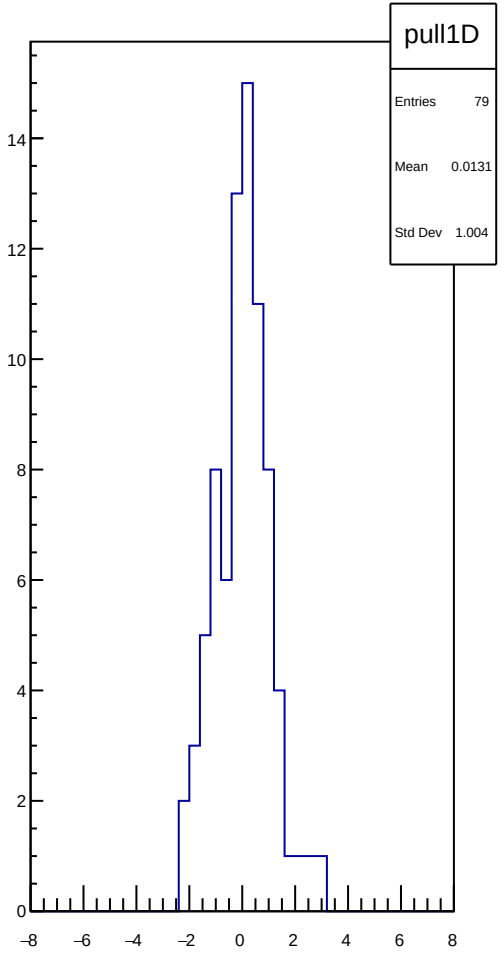

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 61.29 / 78
p0 9.487 ± 2.779
pull
Entries 79
Mean −102.5
Std Dev 0

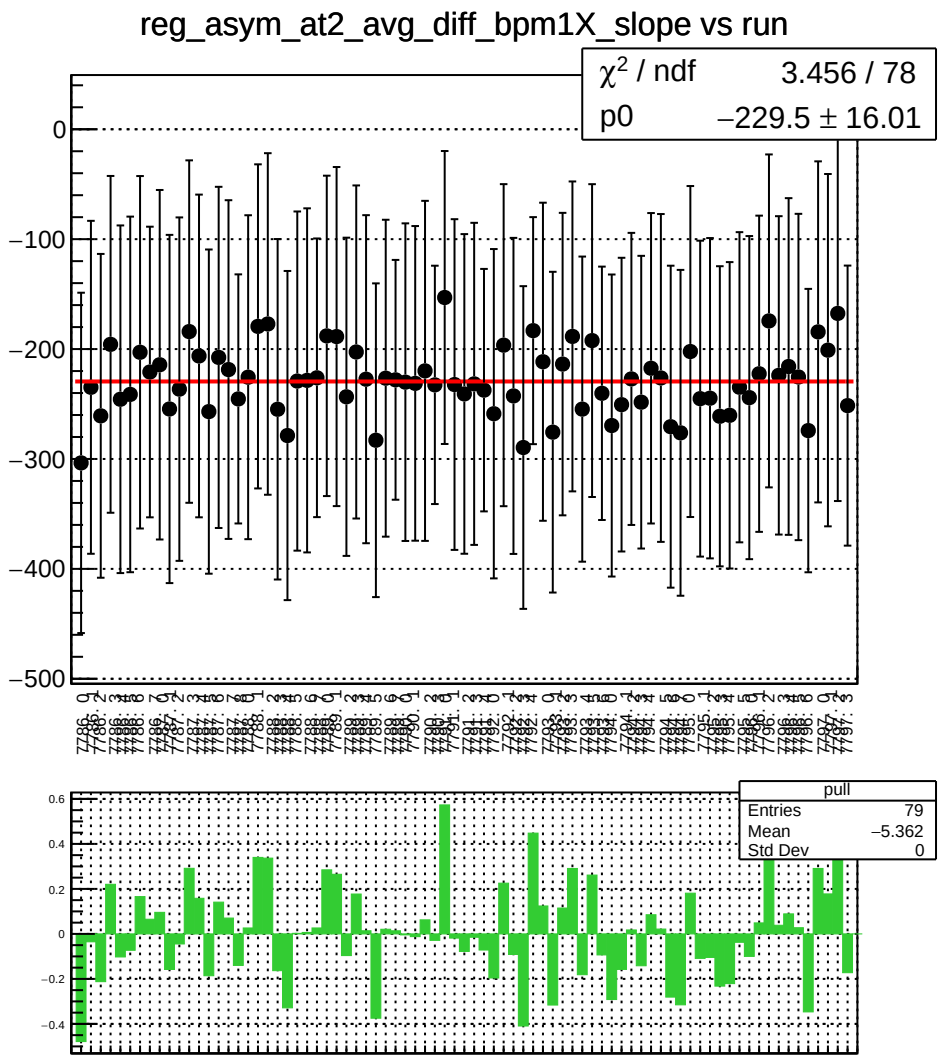

pull1D
Entries 79
Mean −0.008368
Std Dev 0.8808

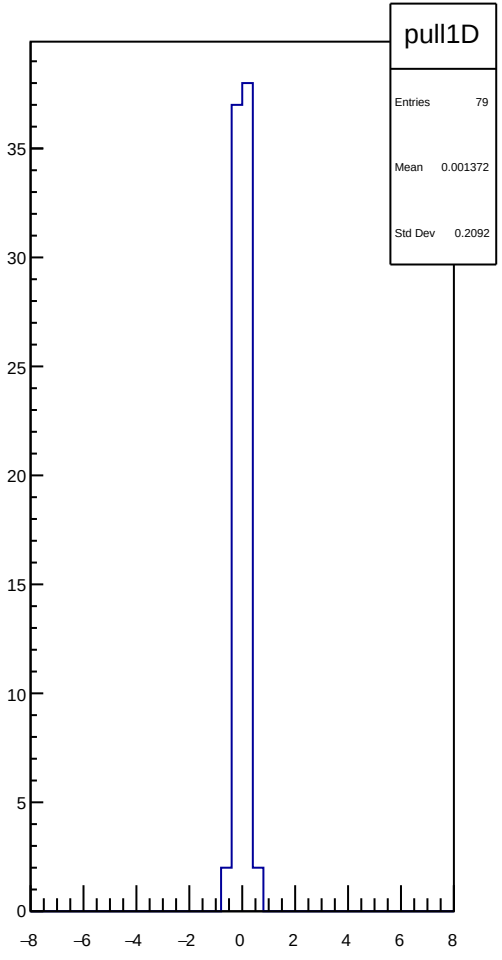

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.05 / 78
p0 −8.744 ± 3.674
pull
Entries 79
Mean 443.8
Std Dev 0

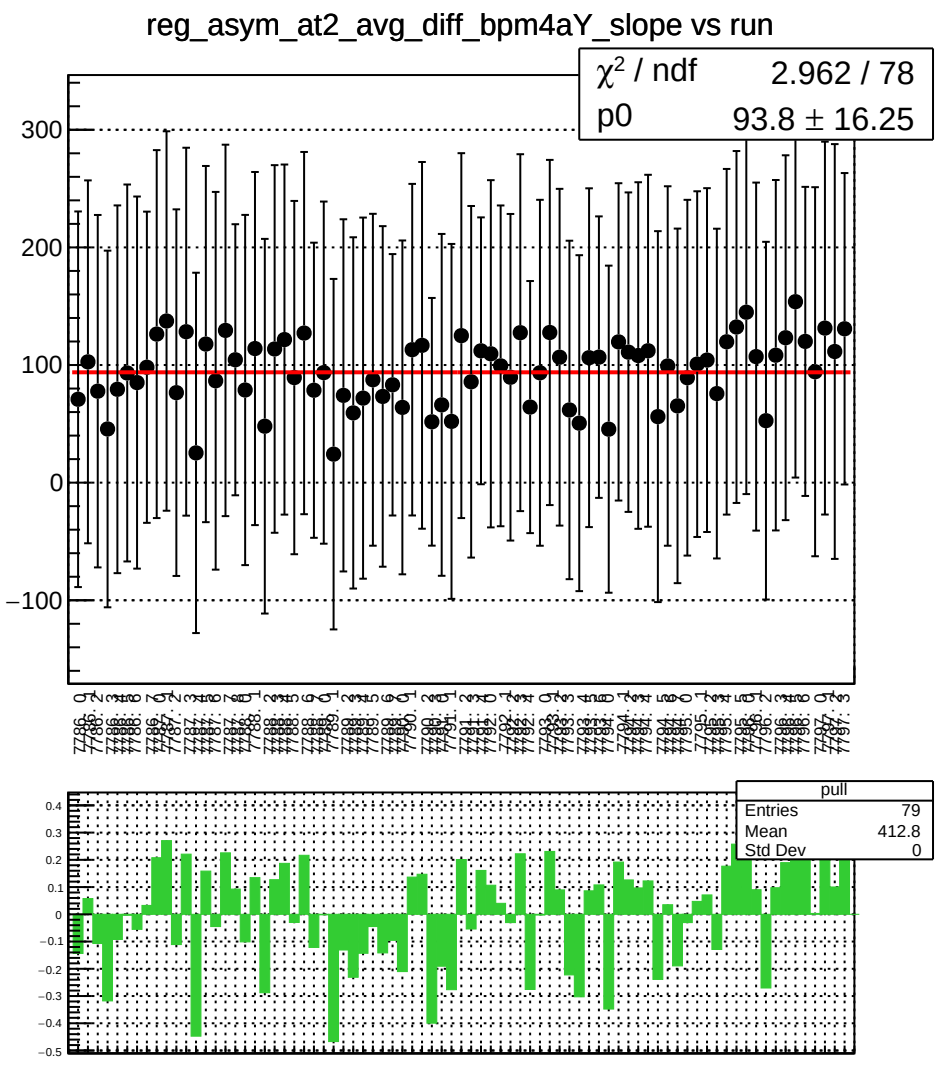

pull1D
Entries 79
Mean −0.002547
Std Dev 0.8645

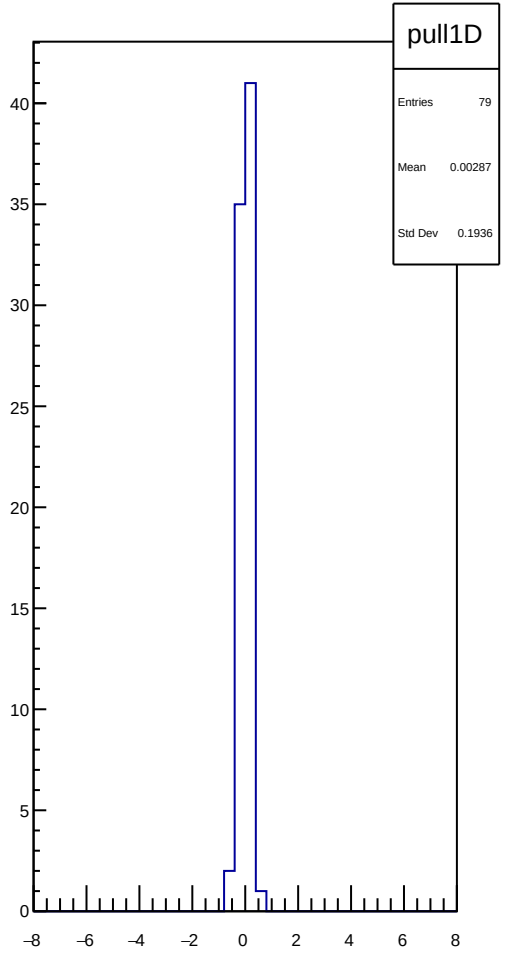

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 79.58 / 78
p0 27.2 ± 0.1142
pull
Entries 79
Mean 467.6
Std Dev 0

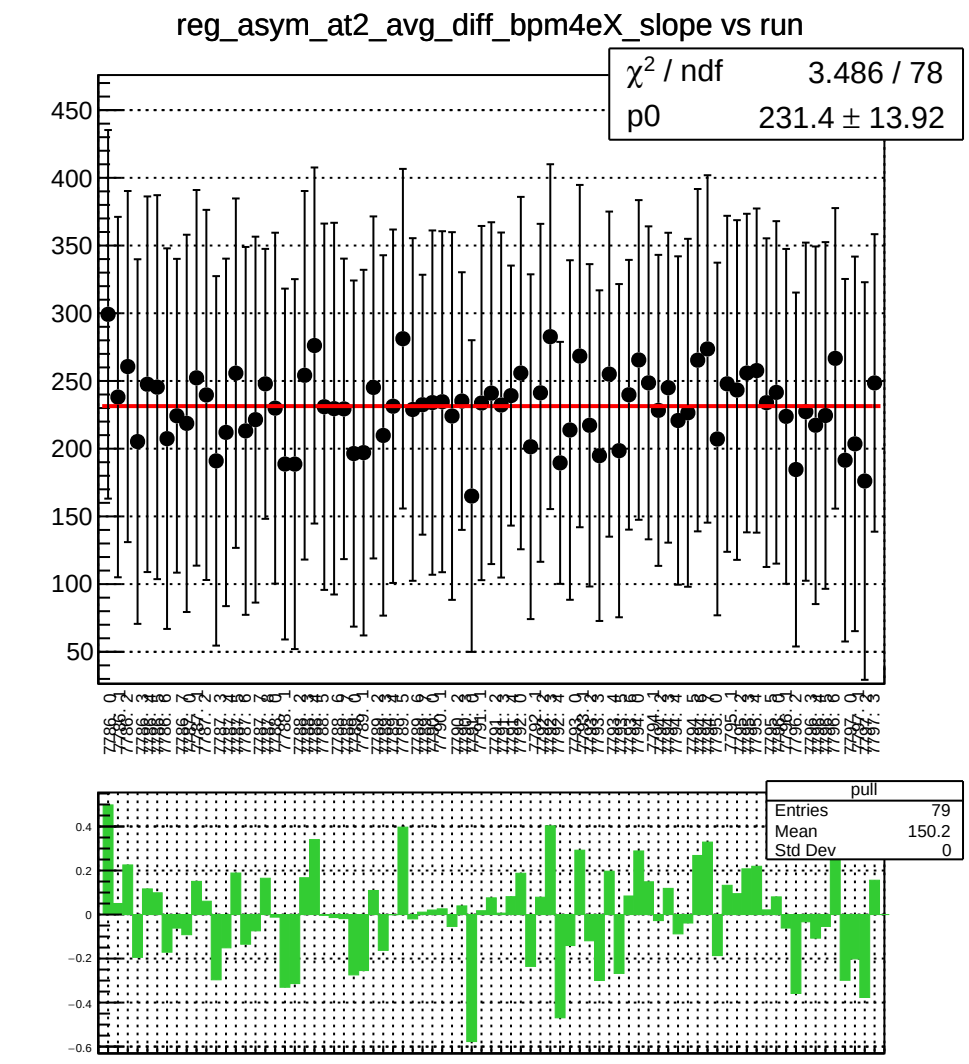

pull1D
Entries 79
Mean 0.0131
Std Dev 1.004

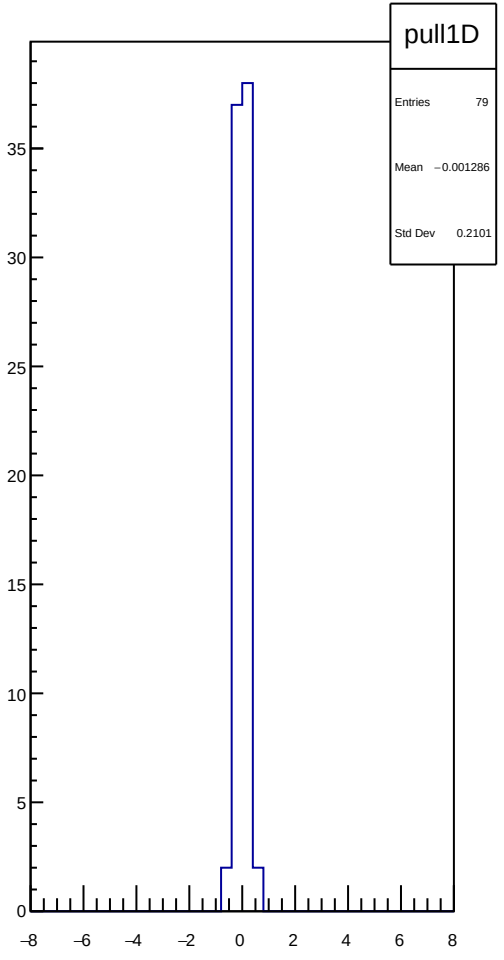

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.456 / 78
p0 −229.5 ± 16.01
pull
Entries 79
Mean −5.362
Std Dev 0

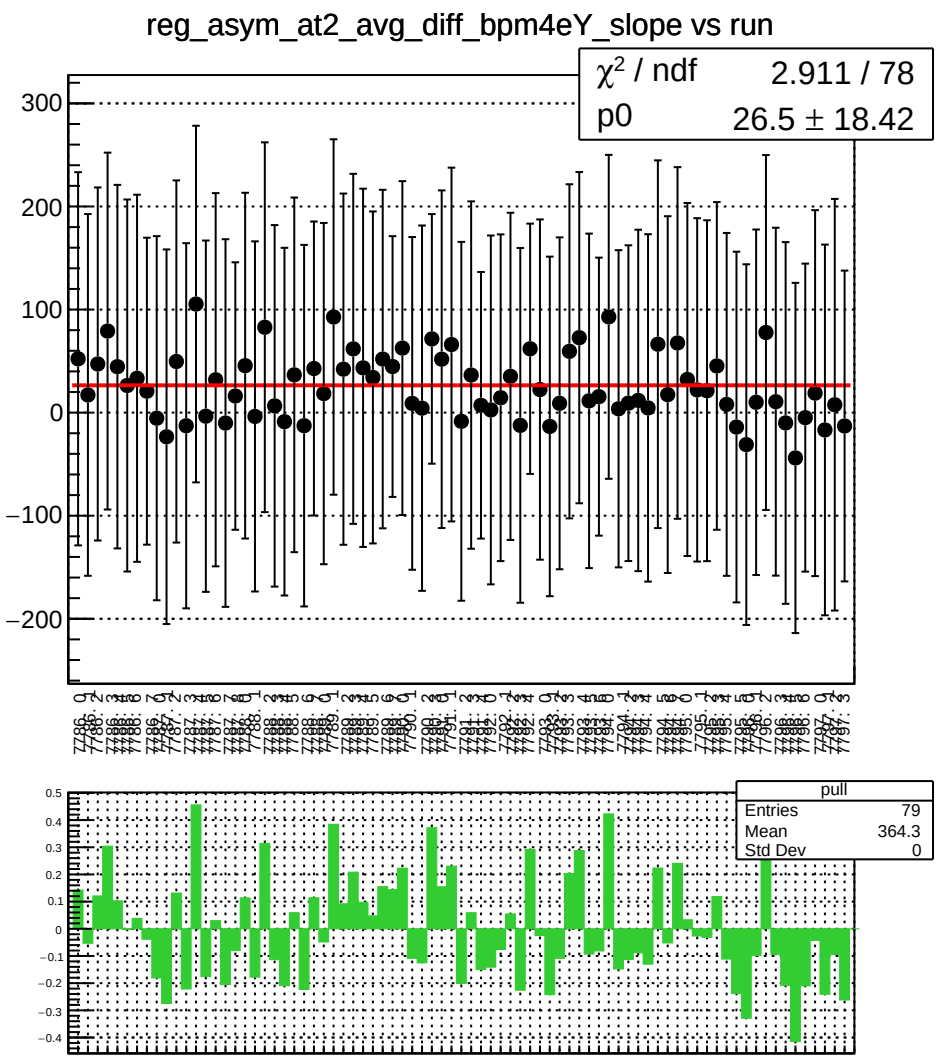

pull1D
Entries 79
Mean 0.001372
Std Dev 0.2092

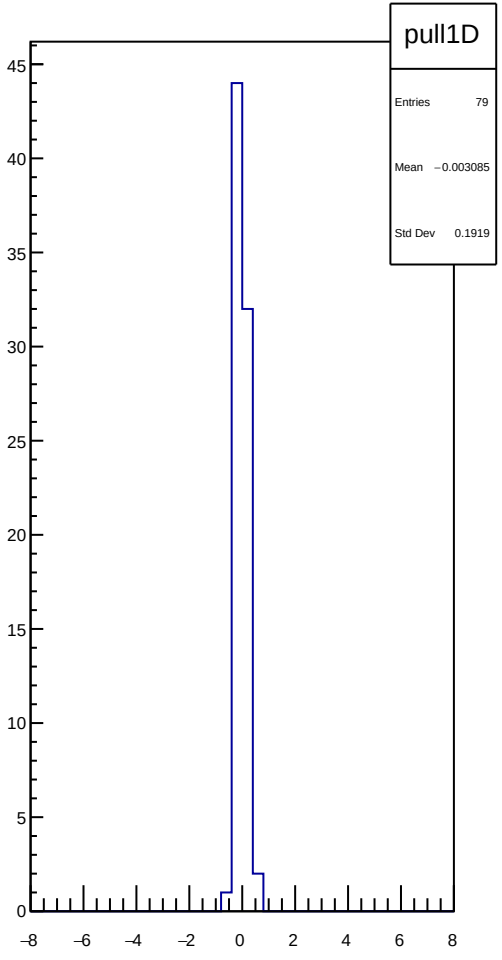

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.962 / 78
p0 93.8 ± 16.25
300
200
100
0
−100
pull
Entries 79
Mean 412.8
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

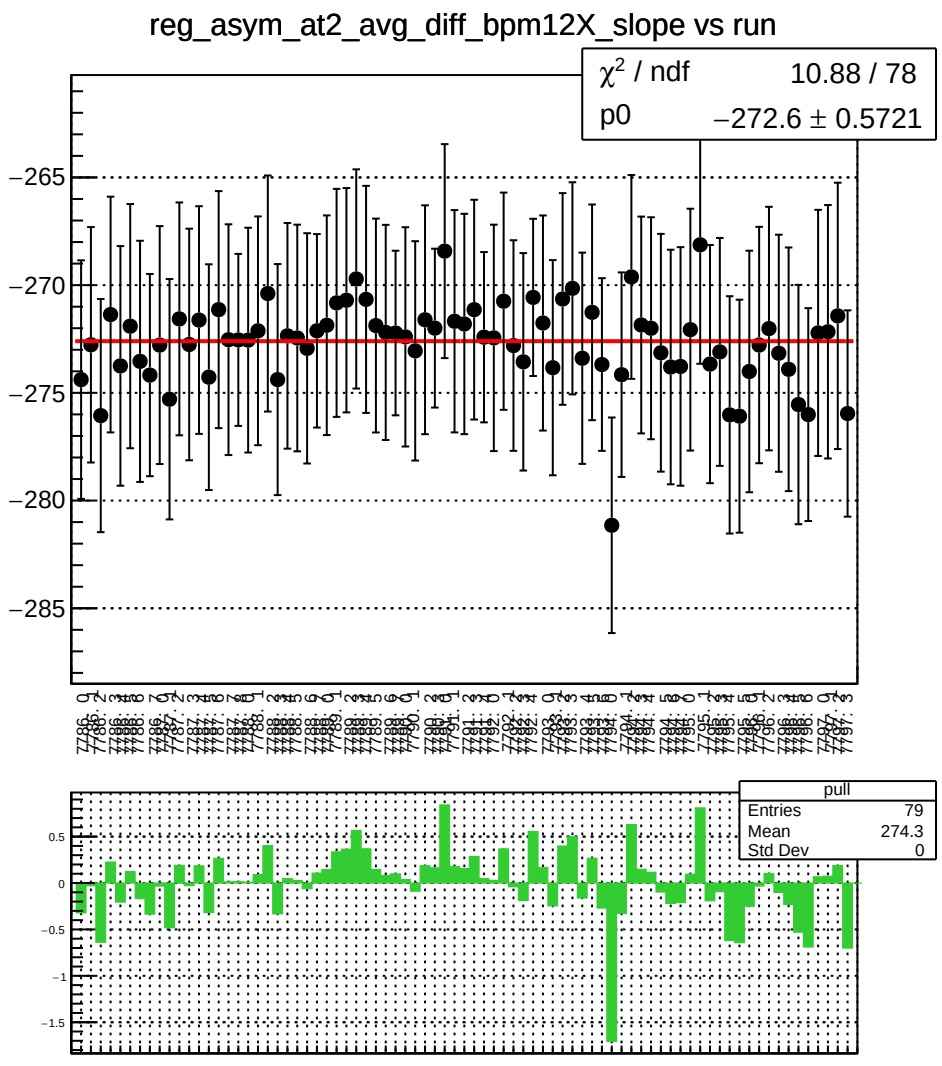

pull1D
Entries 79
Mean 0.00287
Std Dev 0.1936
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

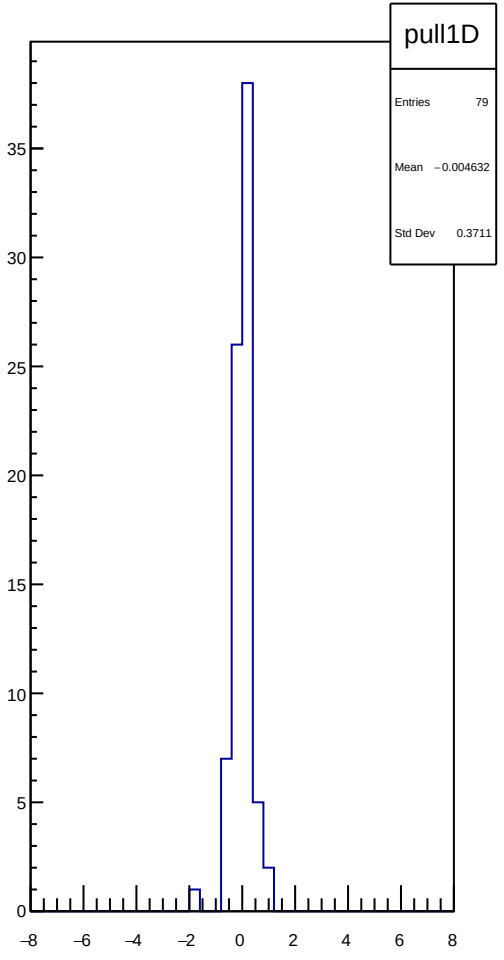

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.486 / 78
p0 231.4 ± 13.92
pull
Entries 79
Mean 150.2
Std Dev 0

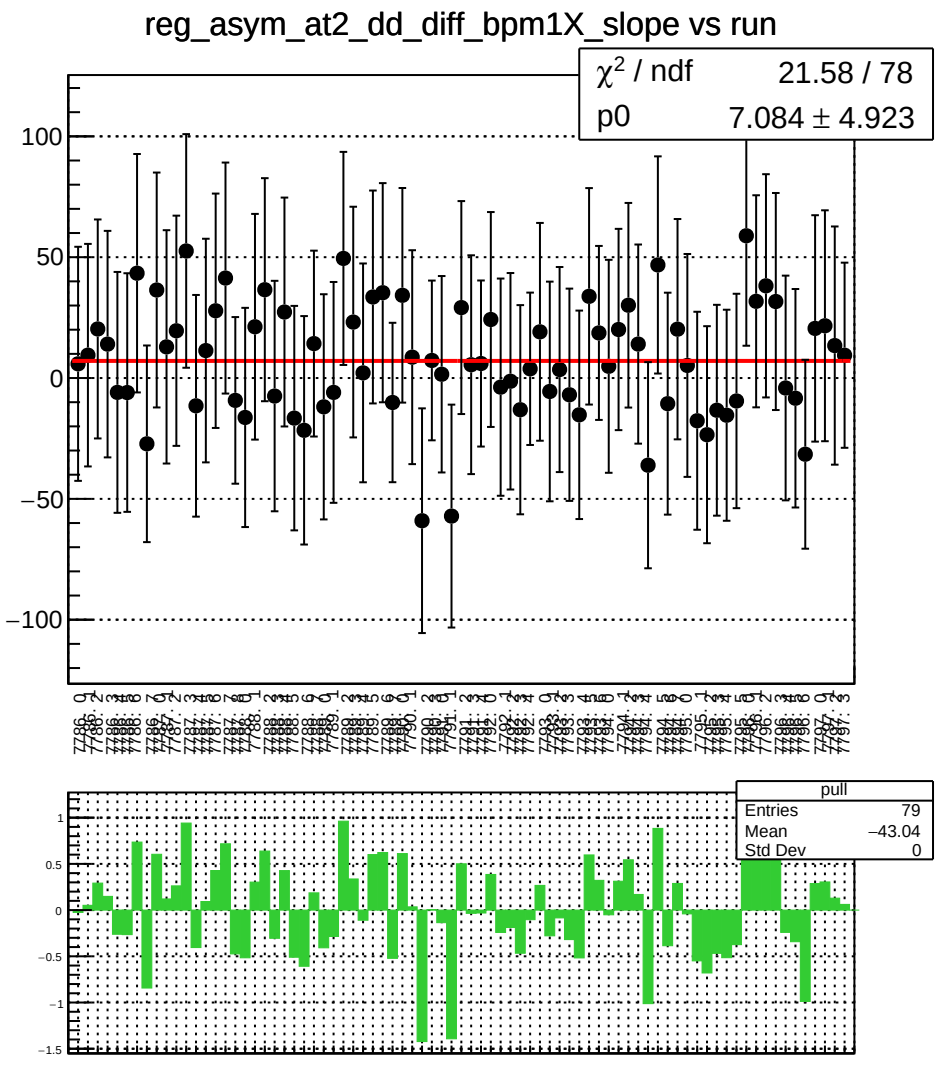

pull1D
Entries 79
Mean −0.001286
Std Dev 0.2101

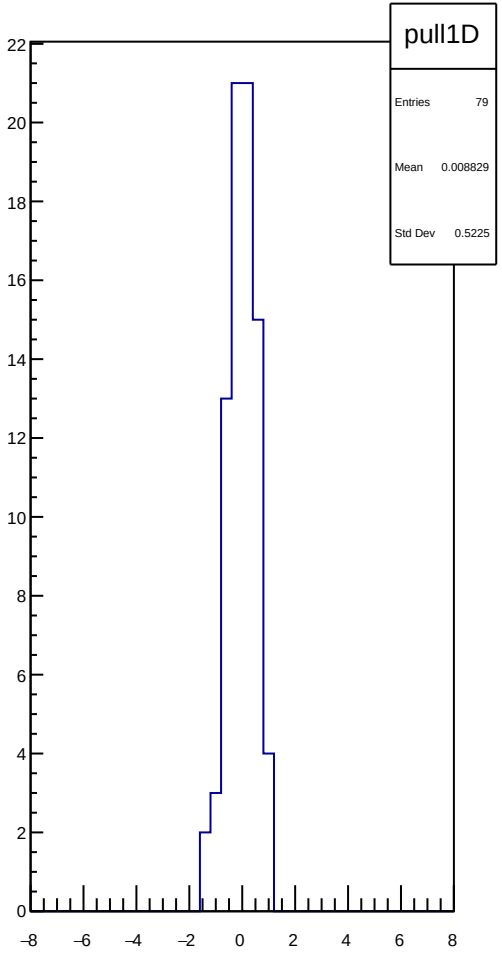

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.911 / 78
p0 26.5 ± 18.42
pull
Entries 79
Mean 364.3
Std Dev 0

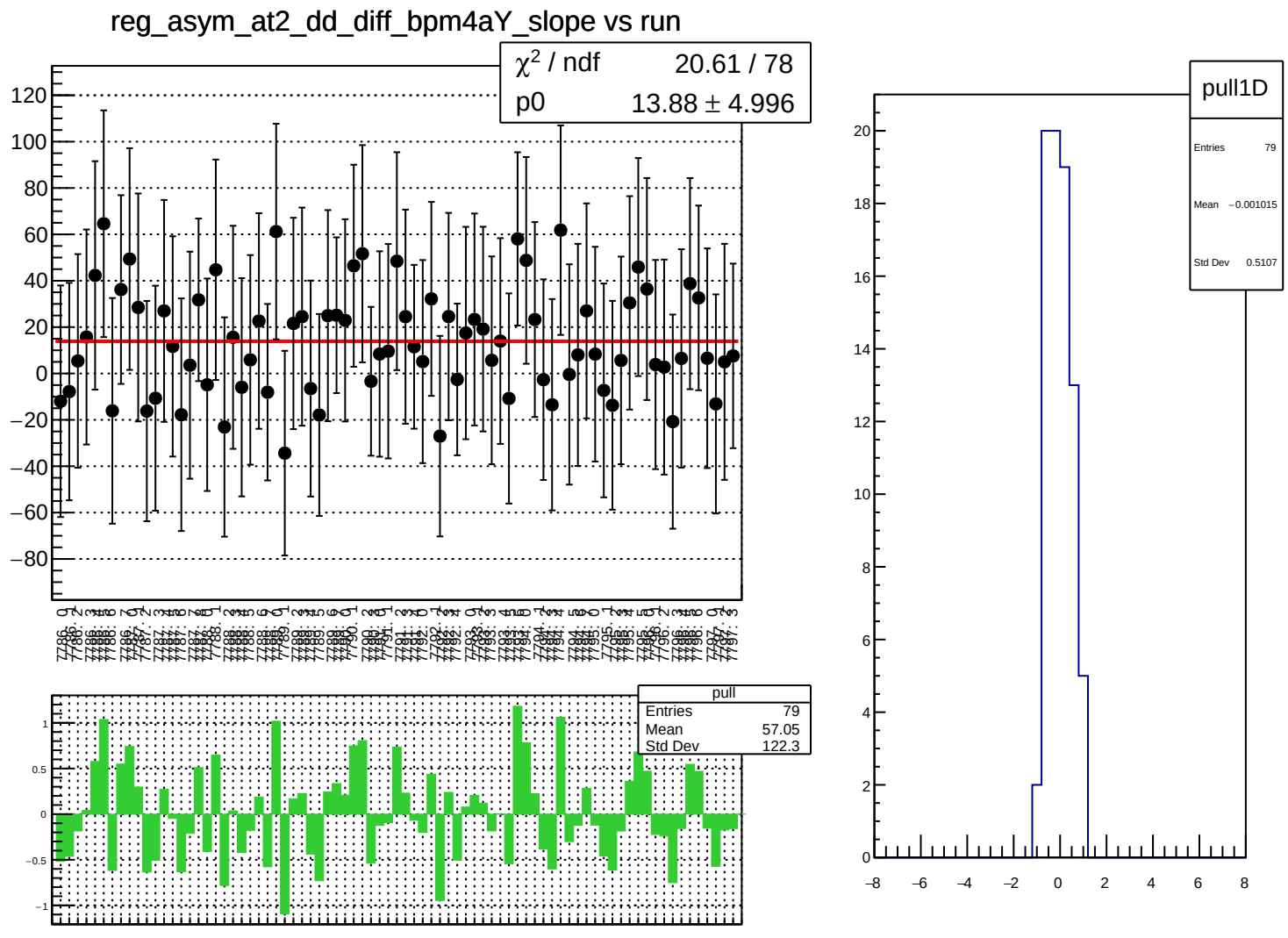

pull1D
Entries 79
Mean −0.003085
Std Dev 0.1919

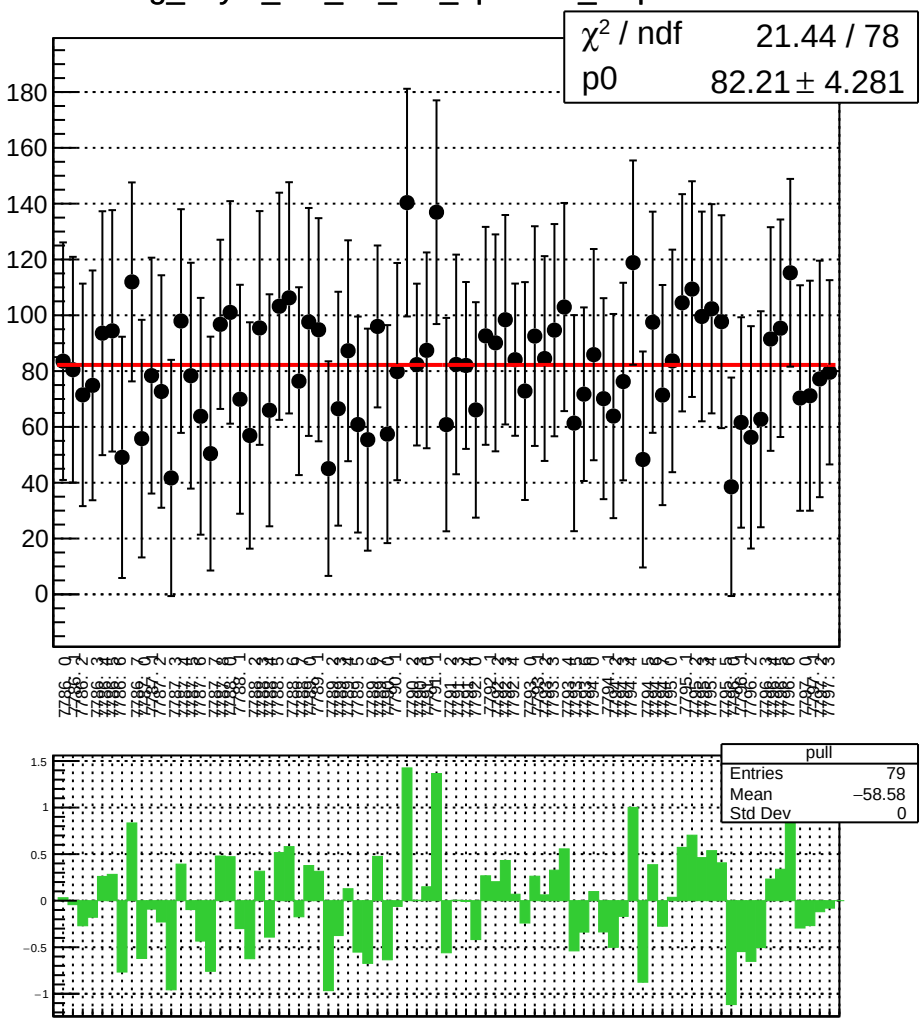

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 10.88 / 78
p0 −272.6 ± 0.5721
−265
−270
−275
−280
−285
pull
Entries 79
Mean 274.3
Std Dev 0
0.5
0
−0.5
−1
−1.5

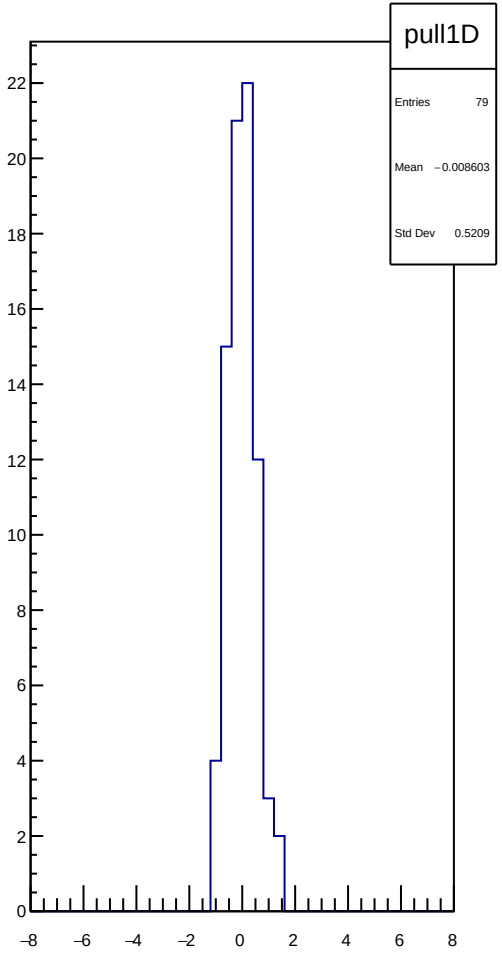

pull1D
Entries 79
Mean −0.004632
Std Dev 0.3711
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

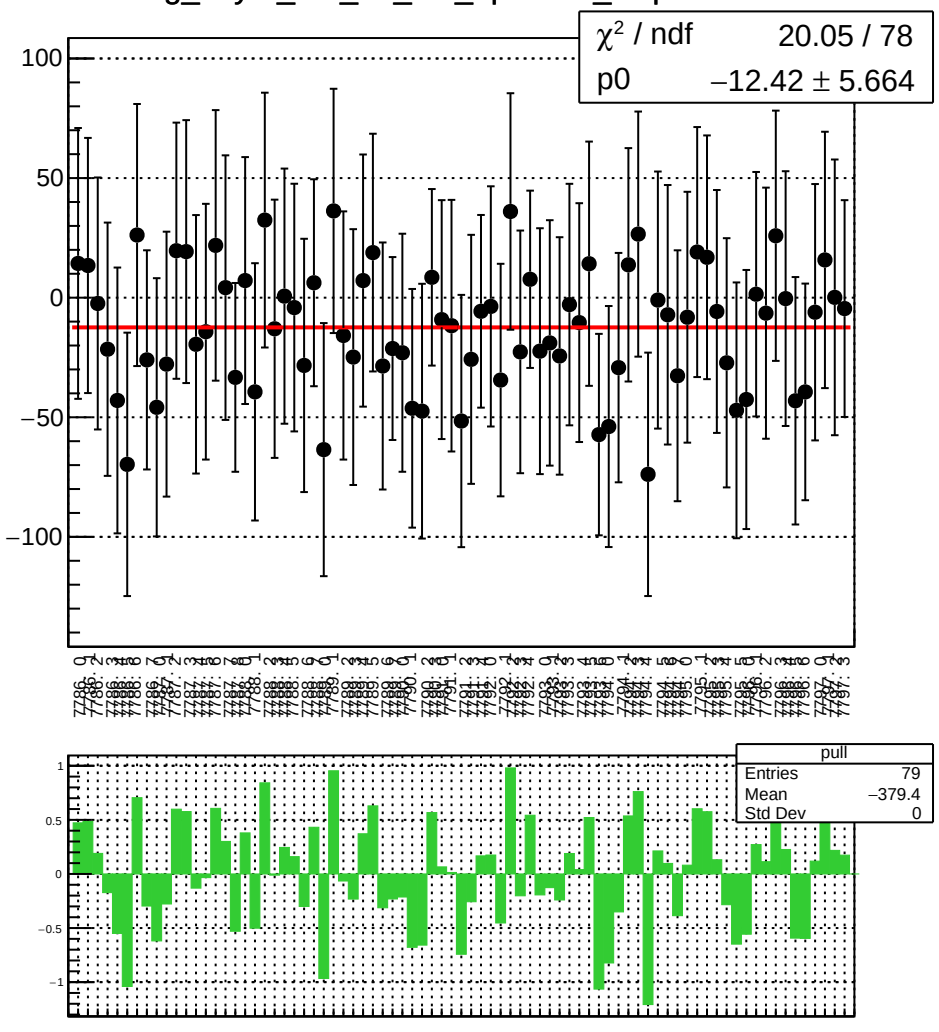

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 21.58 / 78
p0 7.084 ± 4.923
100
50
0
−50
−100
pull
Entries 79
Mean −43.04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

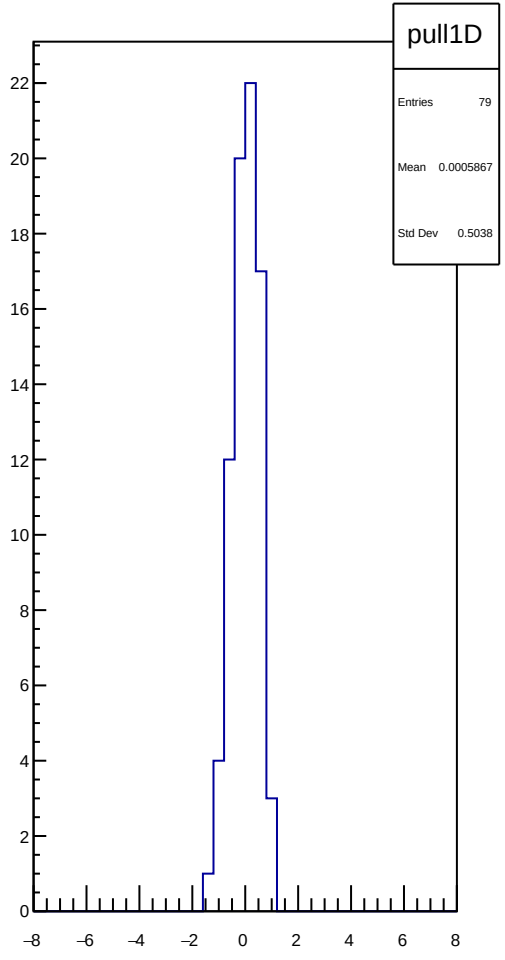

pull1D
Entries 79
Mean 0.008829
Std Dev 0.5225
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

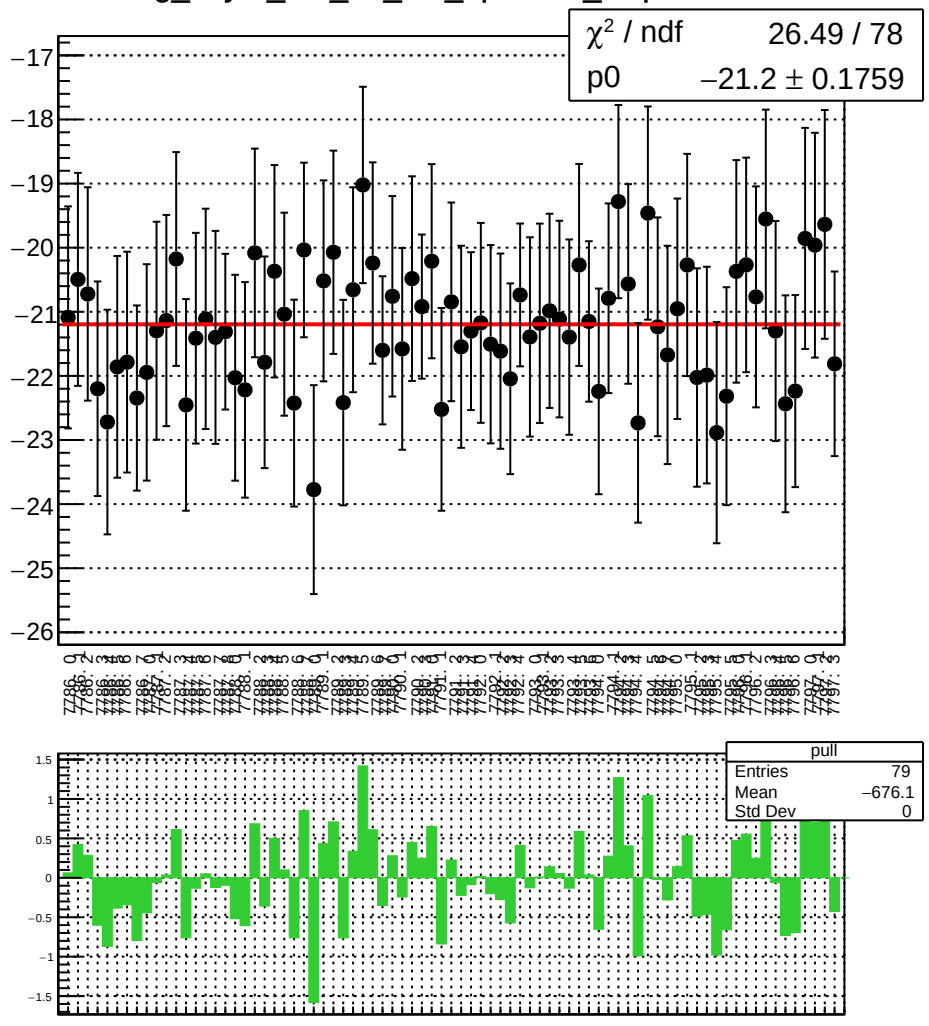

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.61 / 78
p0 13.88 ± 4.996
pull
Entries 79
Mean 57.05
Std Dev 122.3
pull1D
Entries 79
Mean −0.001015
Std Dev 0.5107

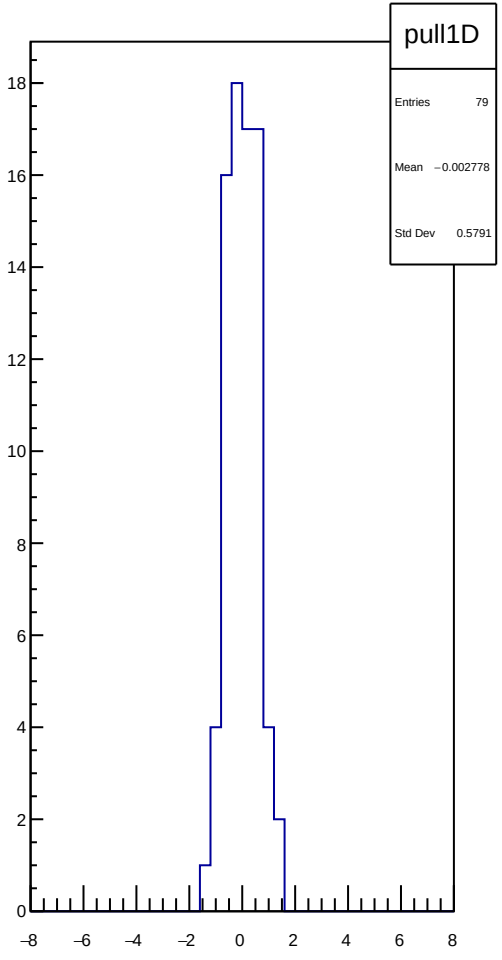

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.44 / 78
p0 82.21 ± 4.281
pull
Entries 79
Mean −58.58
Std Dev 0

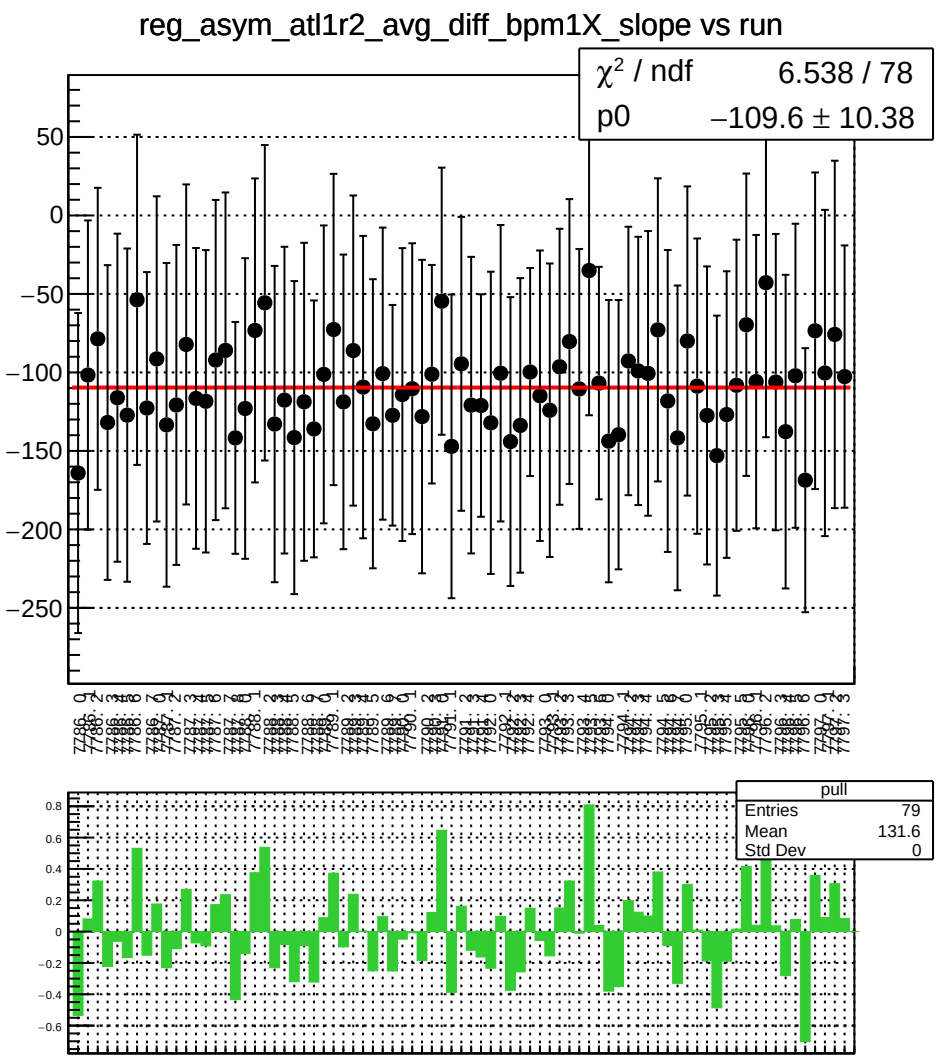

pull1D
Entries 79
Mean −0.008603
Std Dev 0.5209

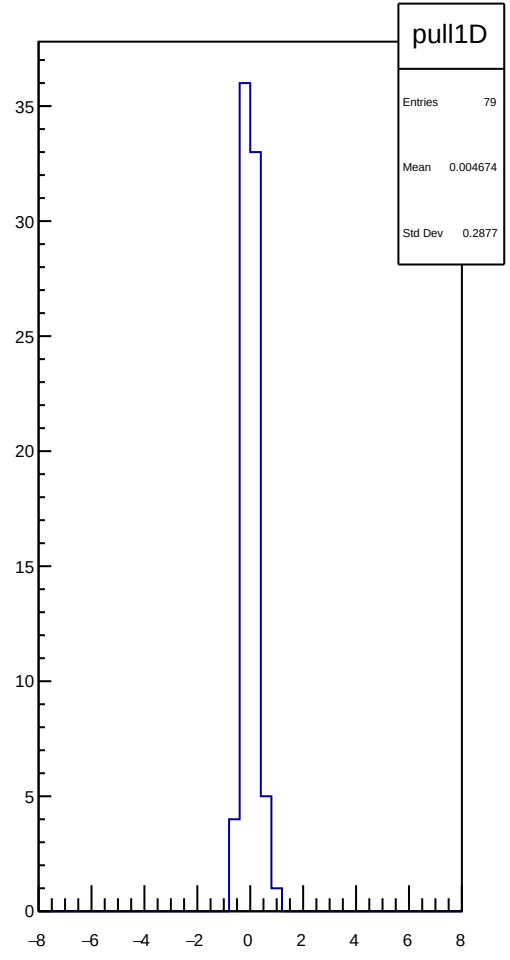

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.05 / 78
p0 −12.42 ± 5.664
100
50
0
−50
−100
pull
Entries 79
Mean −379.4
Std Dev 0
1
0.5
0
−0.5
−1

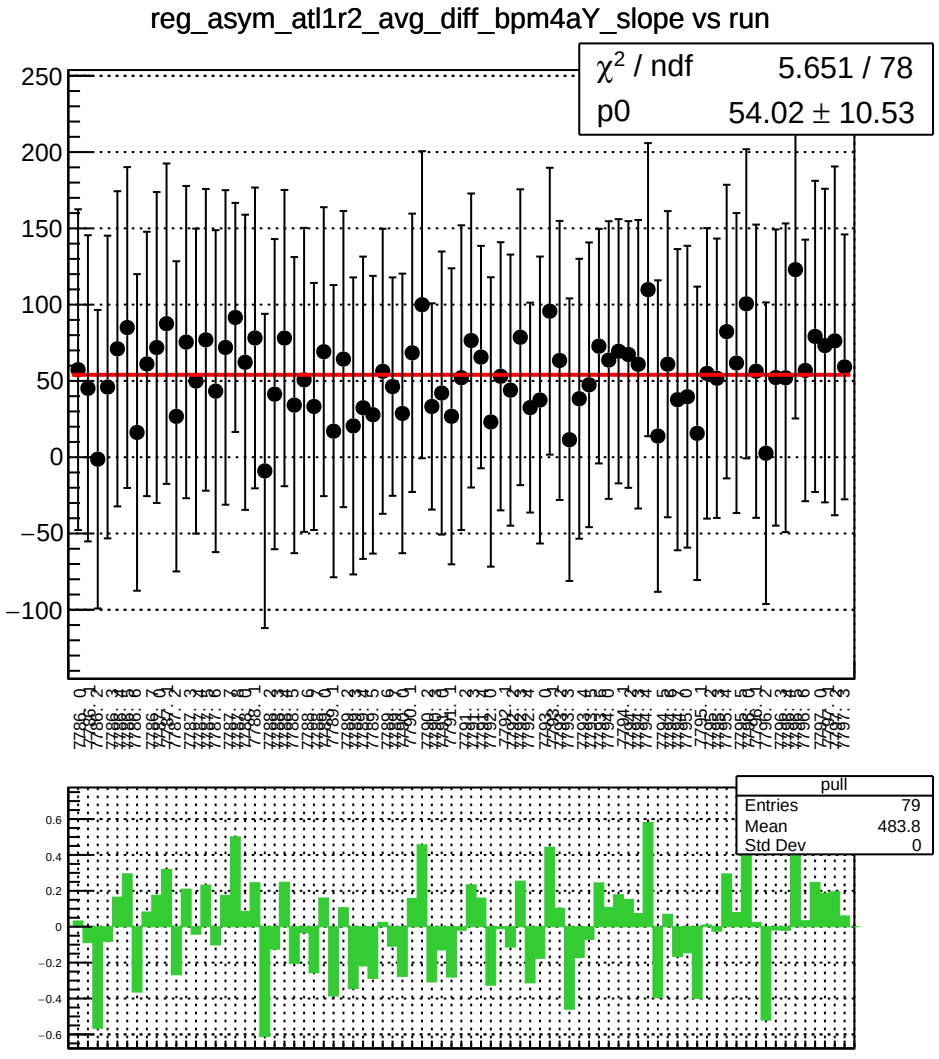

pull1D
Entries 79
Mean 0.0005867
Std Dev 0.5038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

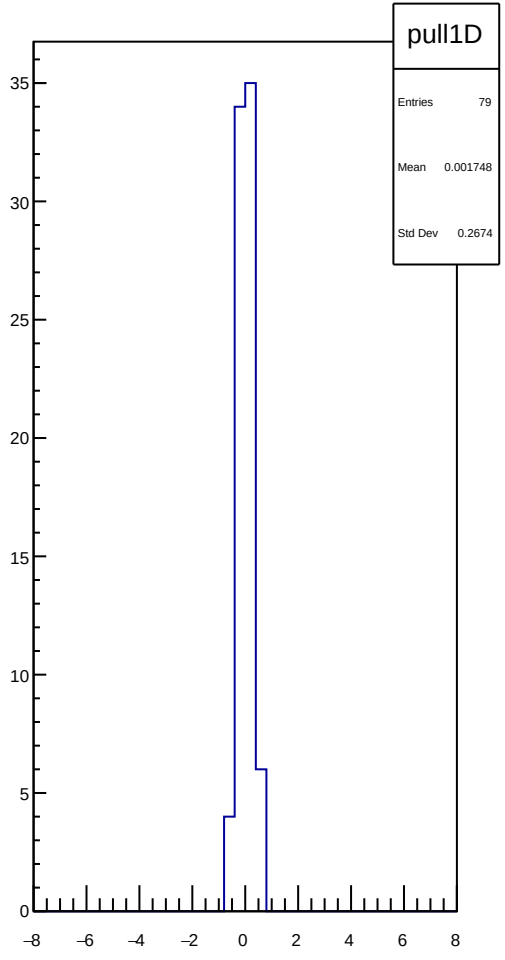

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 26.49 / 78
p0 −21.2 ± 0.1759
pull
Entries 79
Mean −676.1
Std Dev 0

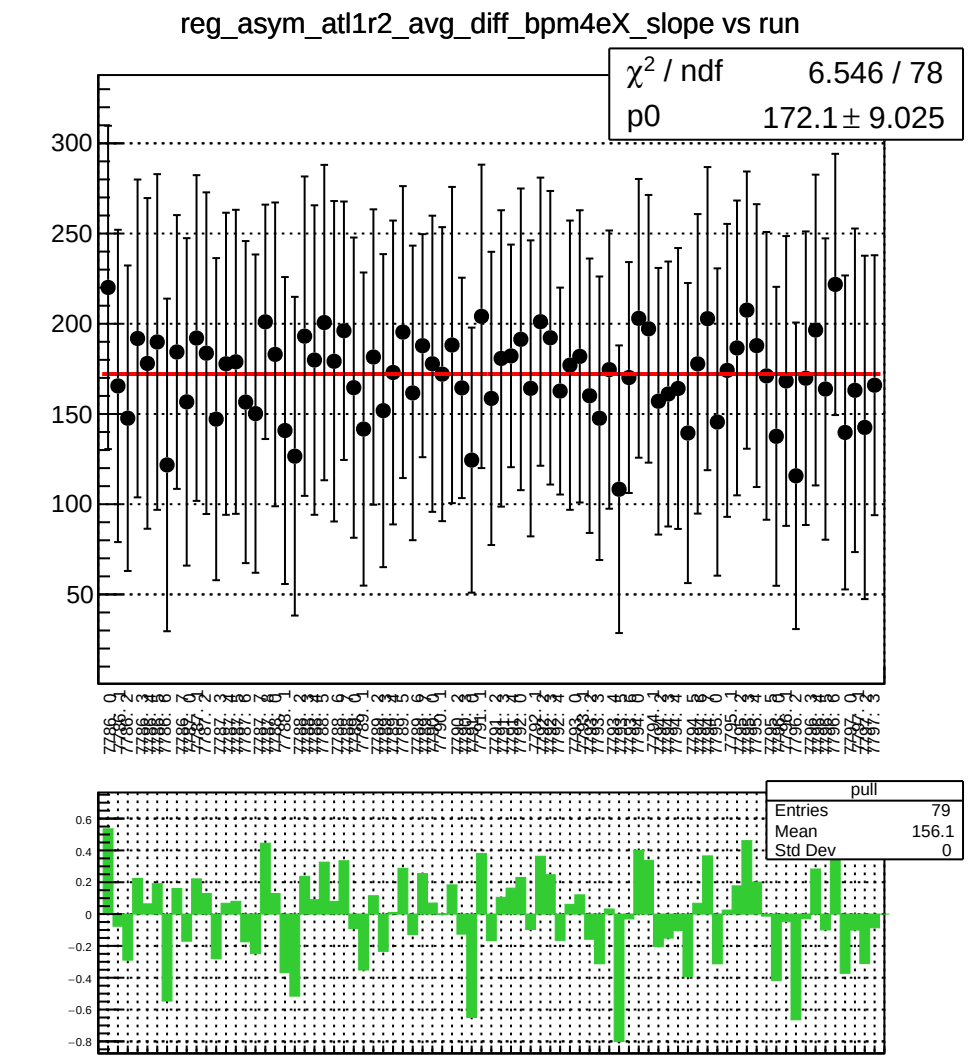

pull1D
Entries 79
Mean −0.002778
Std Dev 0.5791

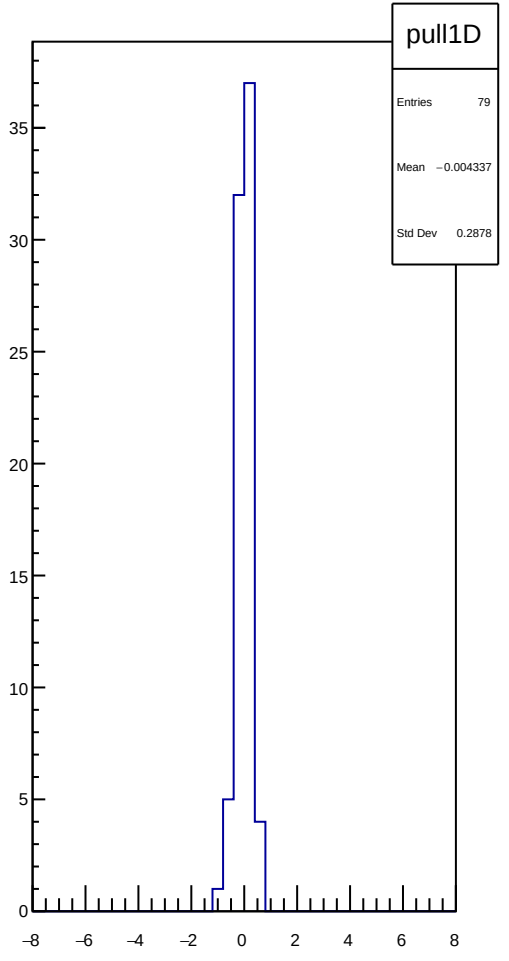

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.538 / 78
p0 −109.6 ± 10.38
pull
Entries 79
Mean 131.6
Std Dev 0

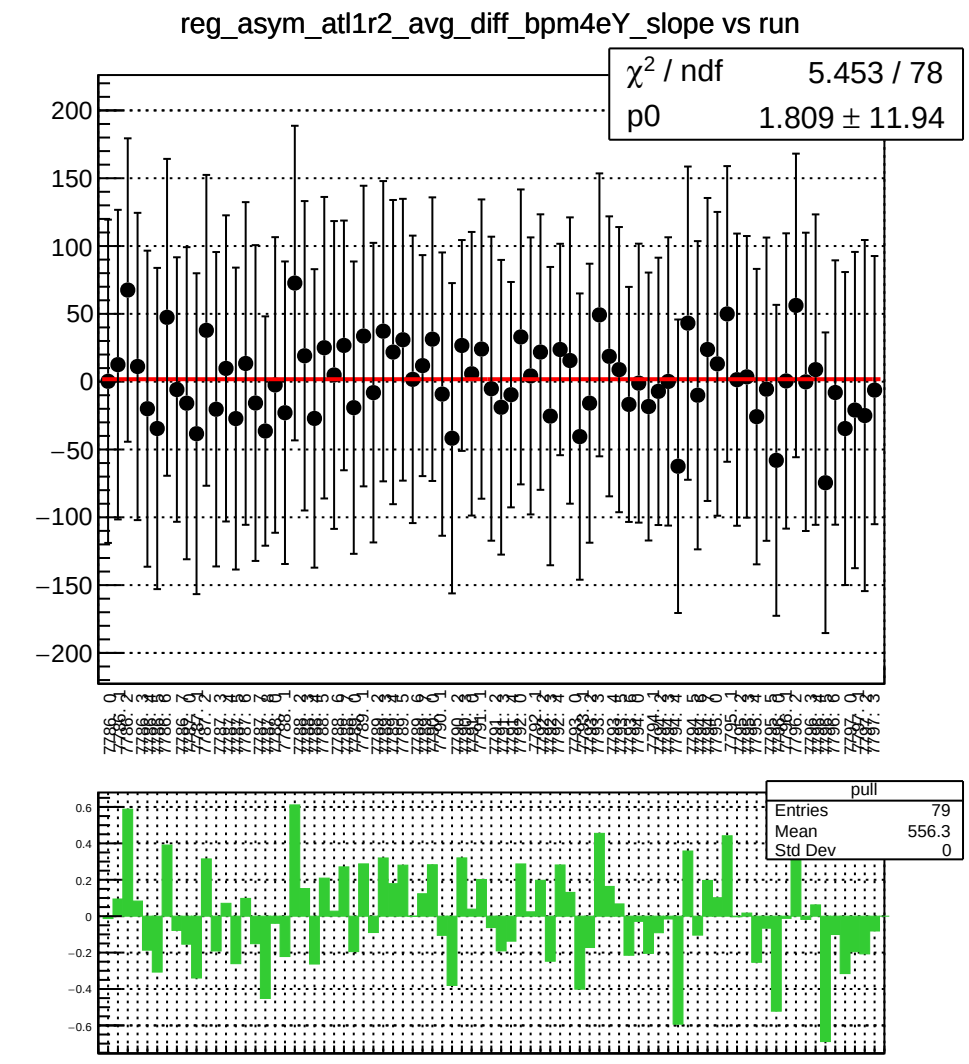

pull1D
Entries 79
Mean 0.004674
Std Dev 0.2877

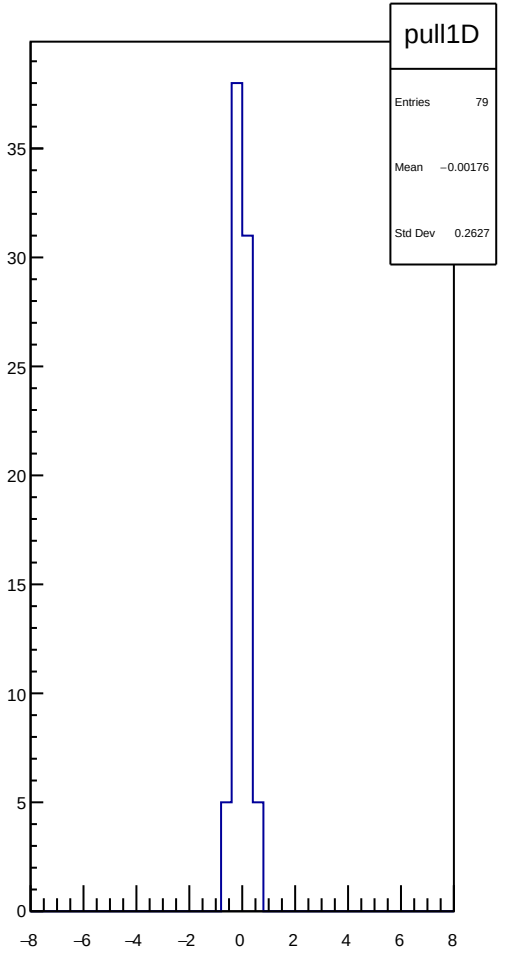

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.651 / 78
p0 54.02 ± 10.53
pull
Entries 79
Mean 483.8
Std Dev 0

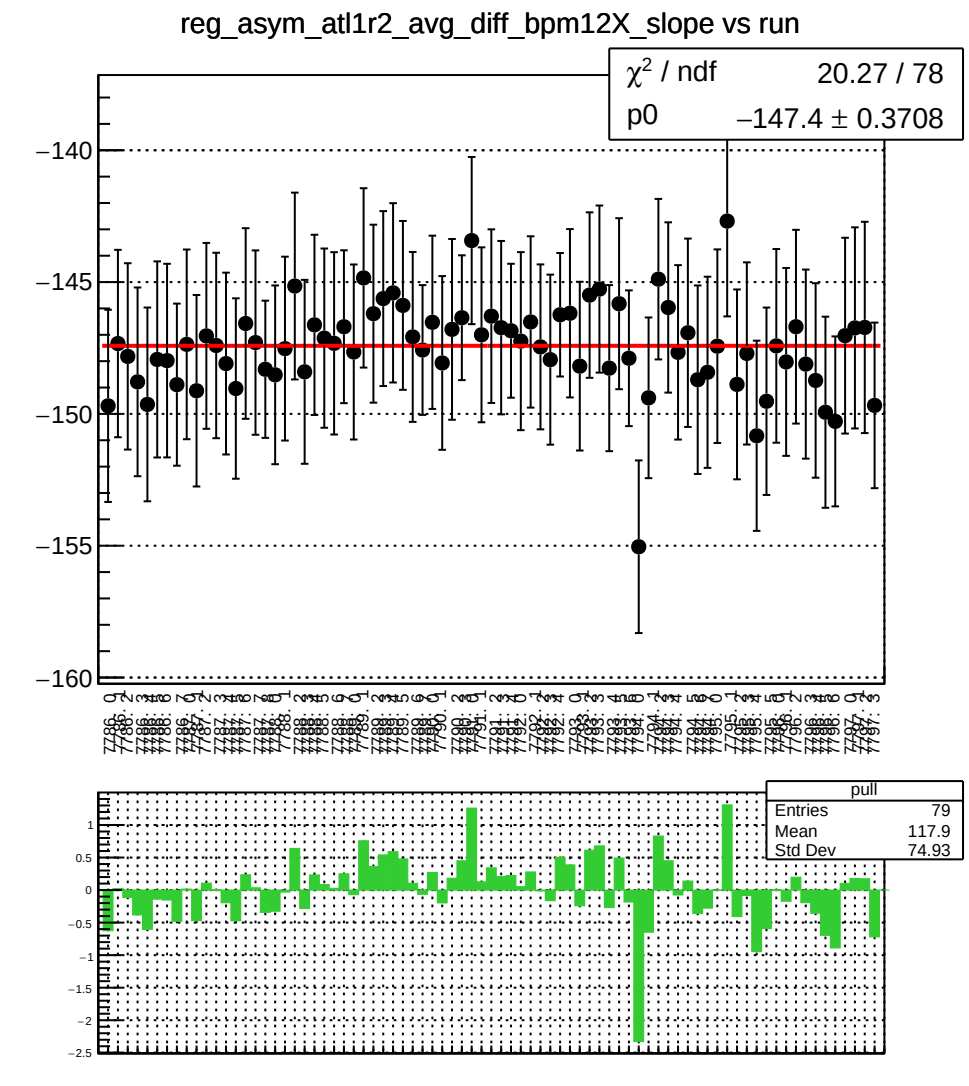

pull1D
Entries 79
Mean 0.001748
Std Dev 0.2674

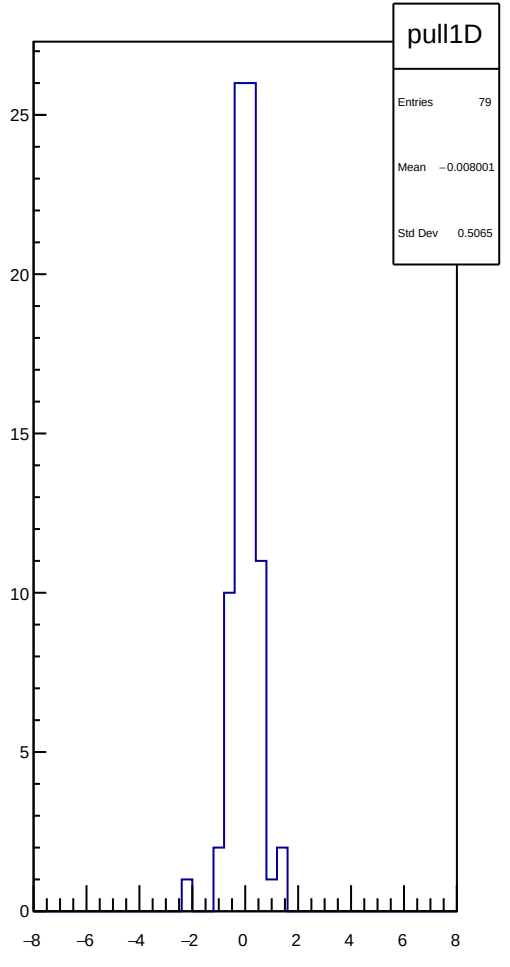

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.546 / 78
p0 172.1 ± 9.025
300
250
200
150
100
50
pull
Entries 79
Mean 156.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

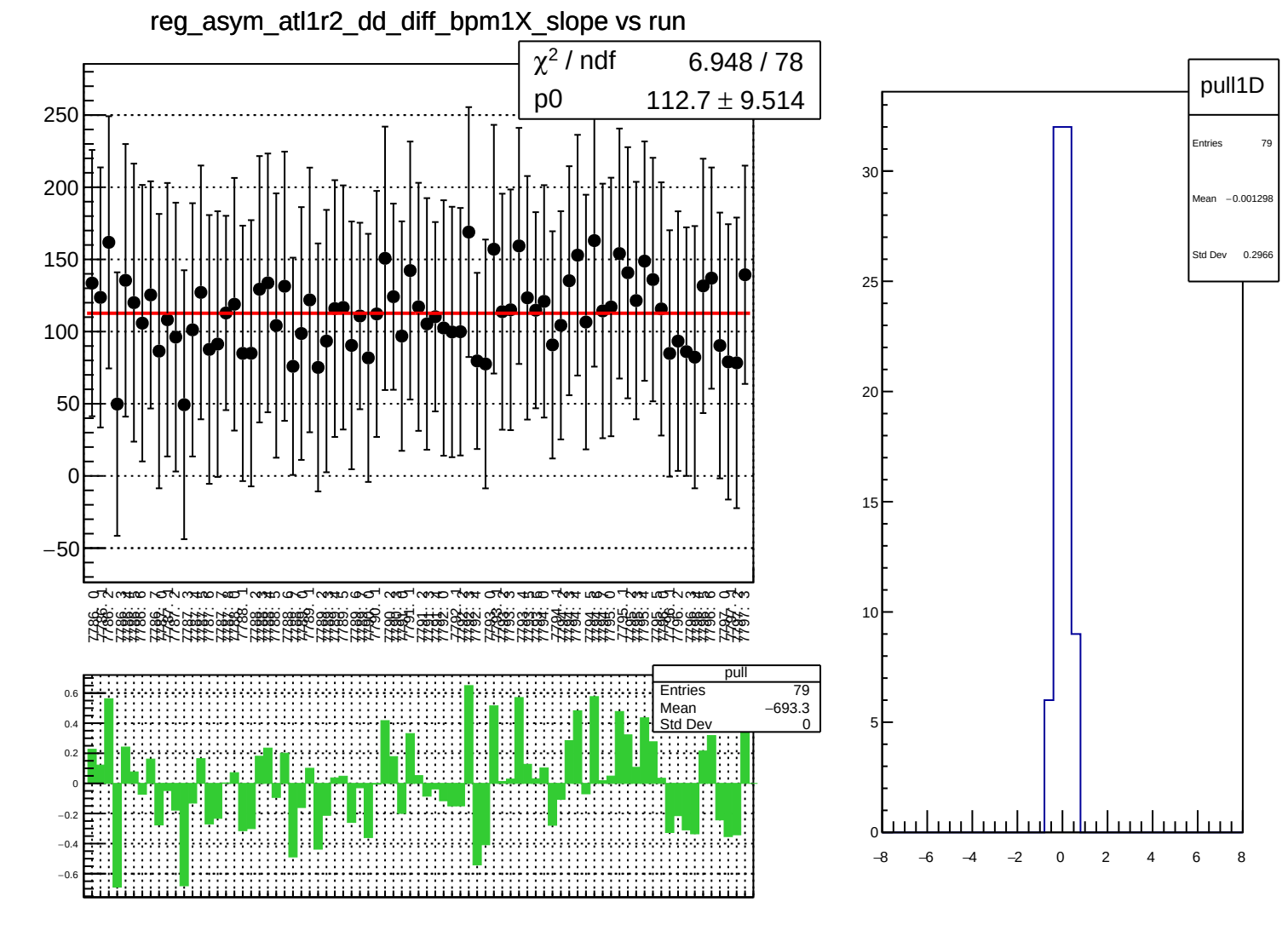

pull1D
Entries 79
Mean −0.004337
Std Dev 0.2878
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

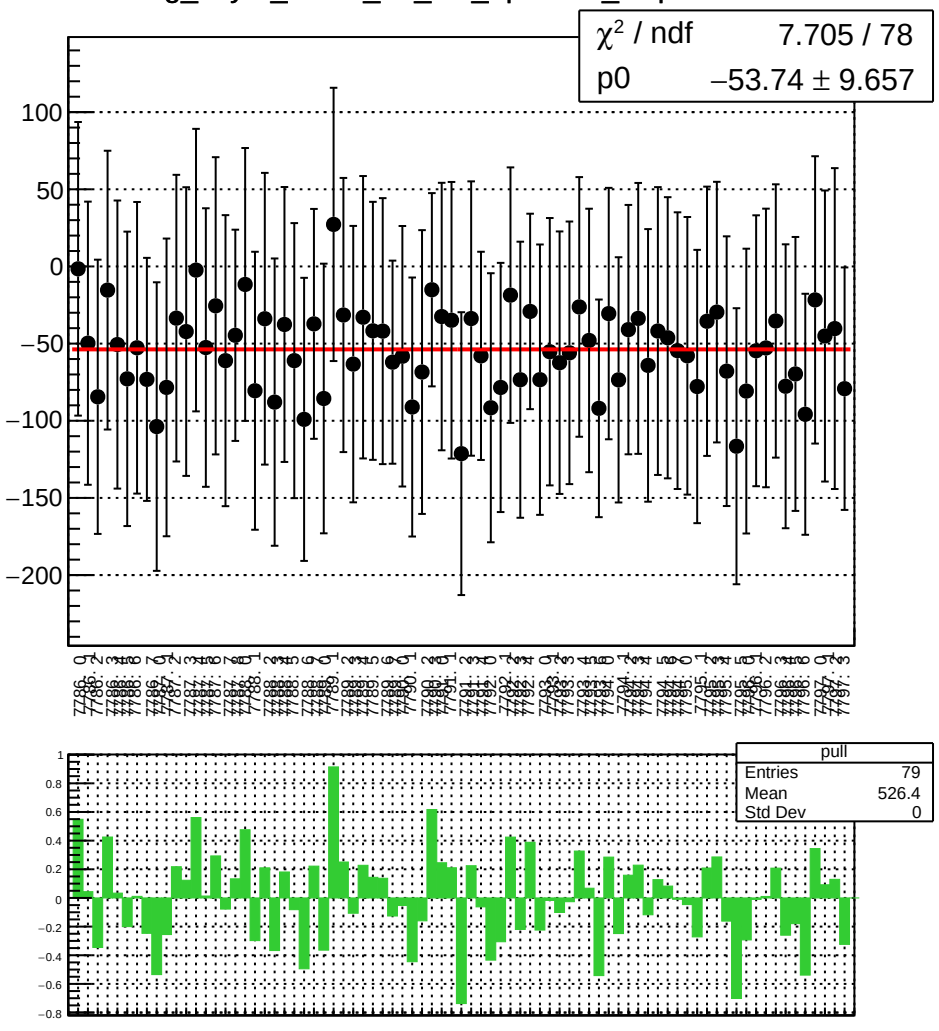

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.453 / 78
p0 1.809 ± 11.94
pull
Entries 79
Mean 556.3
Std Dev 0

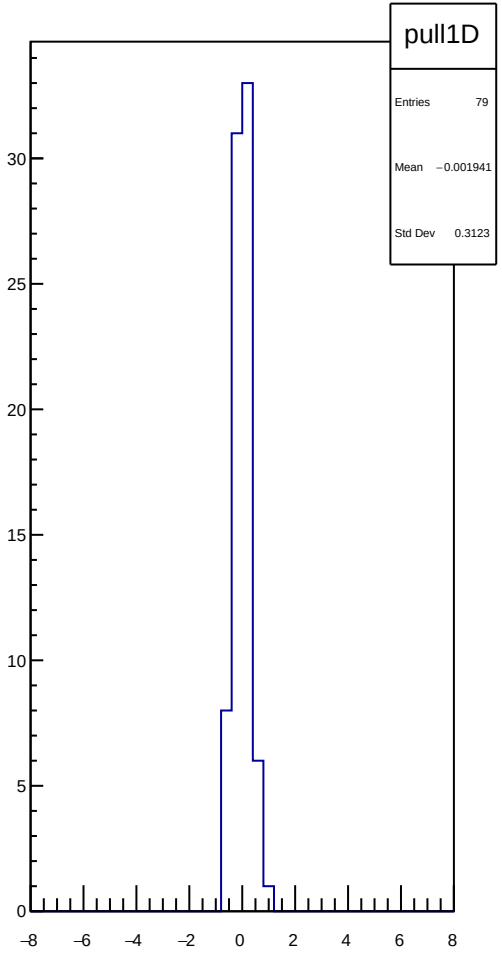

pull1D
Entries 79
Mean −0.00176
Std Dev 0.2627

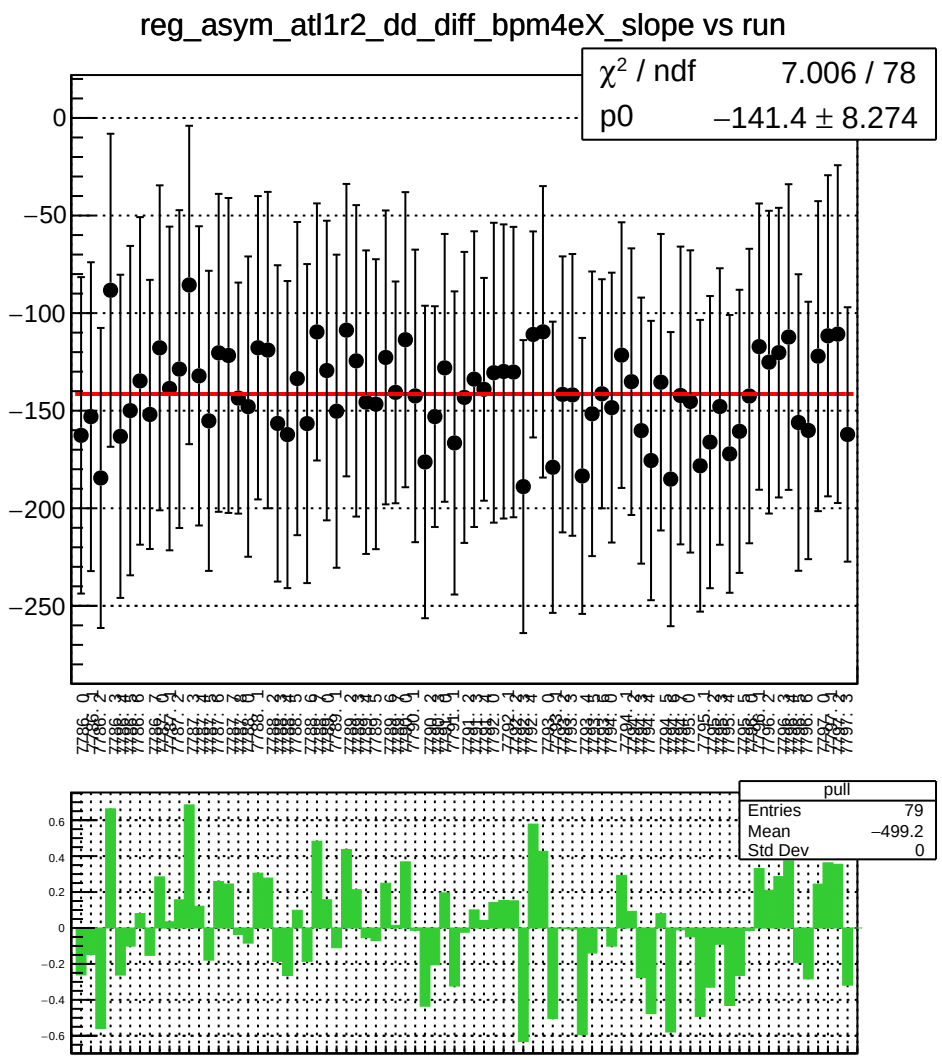

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 20.27 / 78
p0 −147.4 ± 0.3708
−140
−145
−150
−155
−160
pull
Entries 79
Mean 117.9
Std Dev 74.93
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

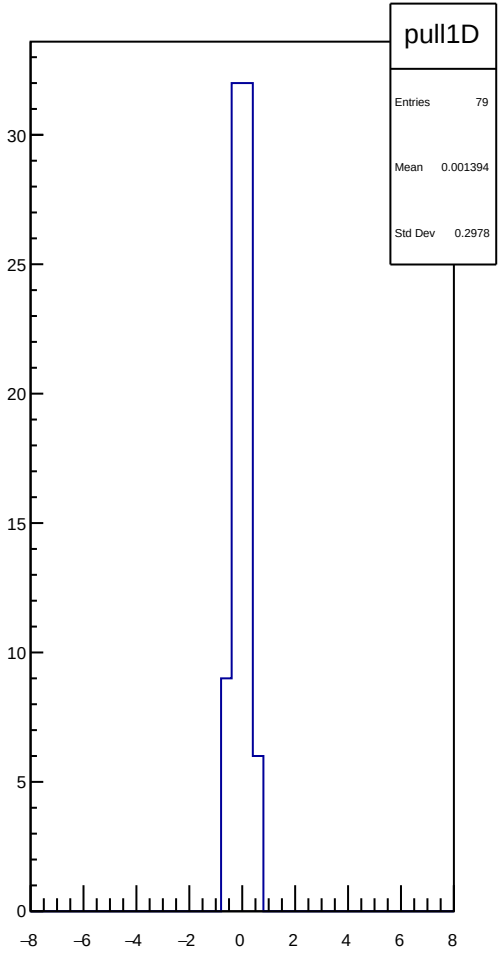

pull1D
Entries 79
Mean −0.008001
Std Dev 0.5065
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

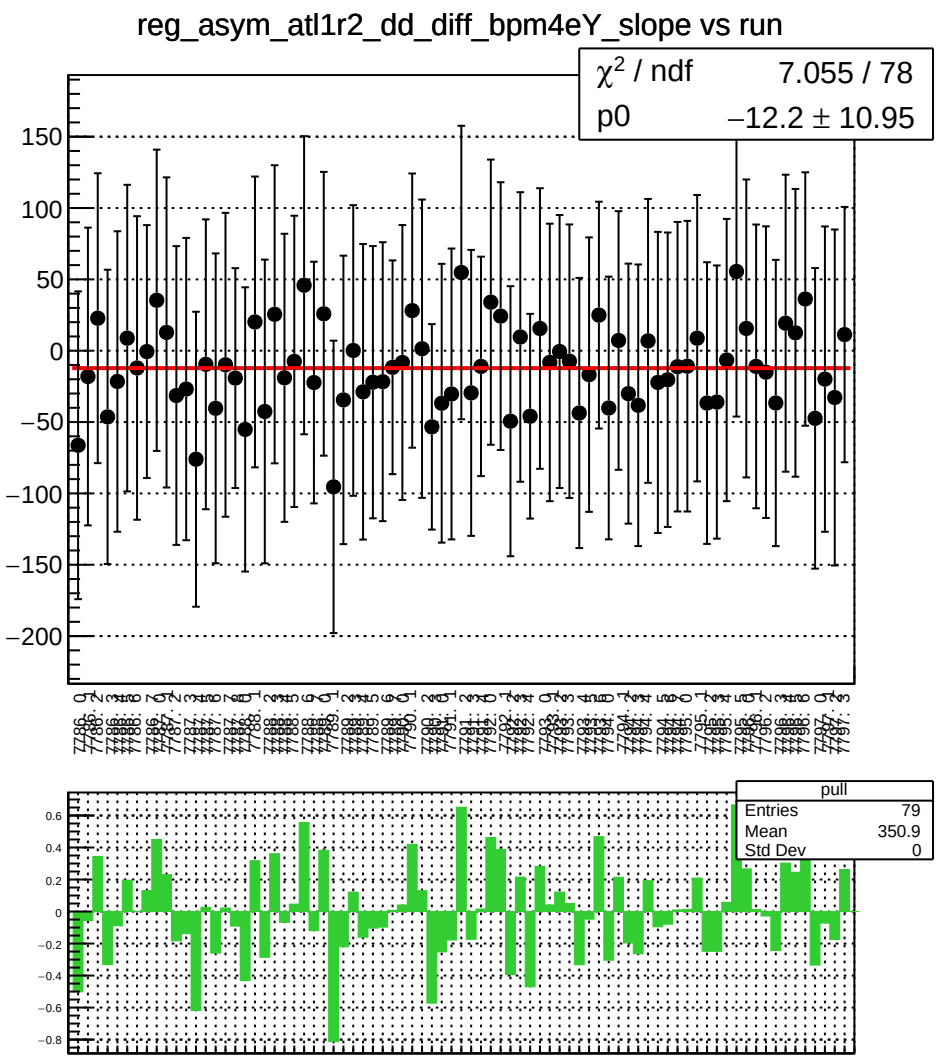

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 6.948 / 78
p0 112.7 ± 9.514
pull
Entries 79
Mean −693.3
Std Dev 0
pull1D
Entries 79
Mean −0.001298
Std Dev 0.2966

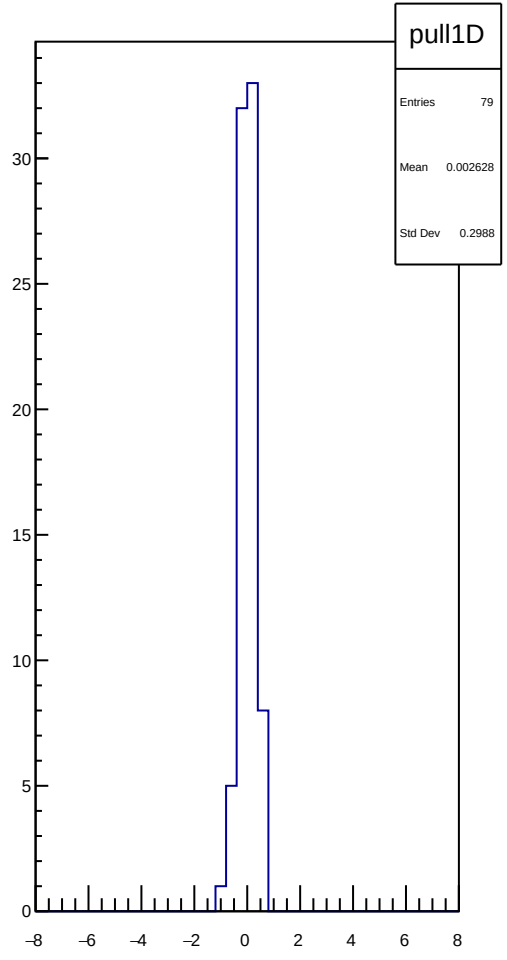

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.705 / 78
p0 −53.74 ± 9.657
pull
Entries 79
Mean 526.4
Std Dev 0

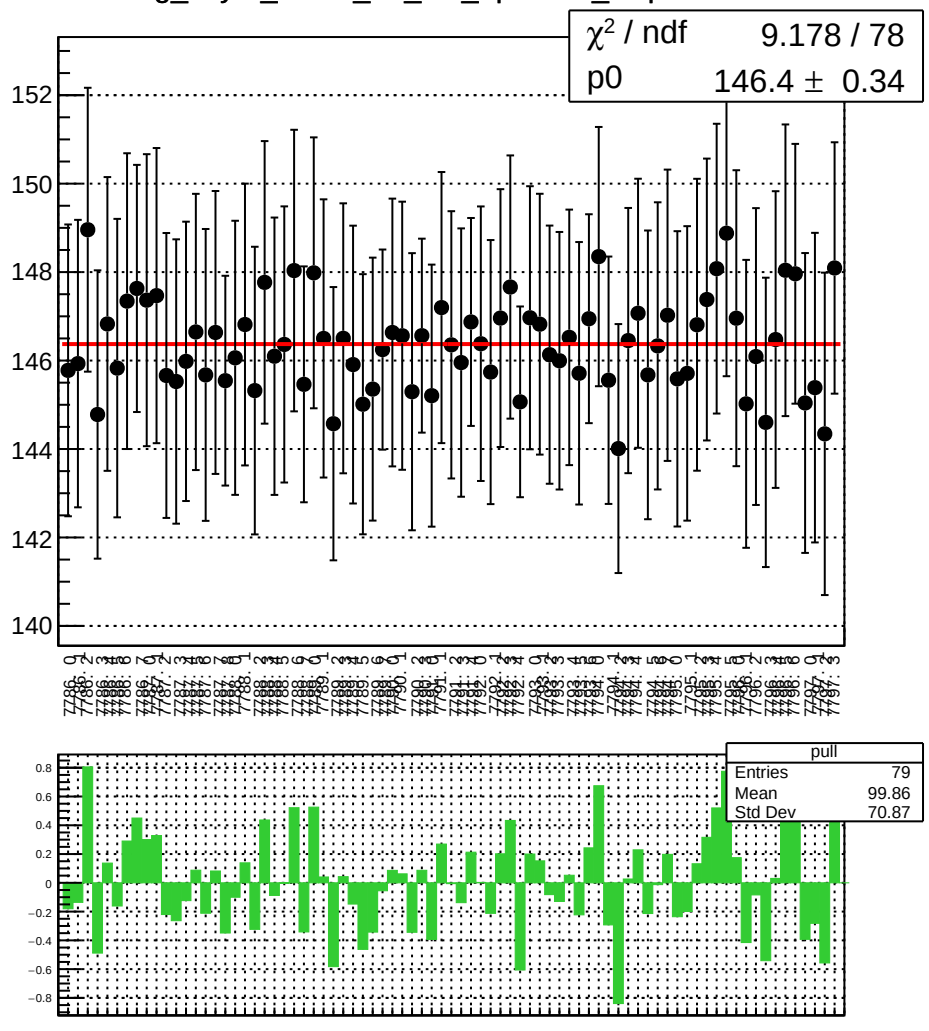

pull1D
Entries 79
Mean −0.001941
Std Dev 0.3123

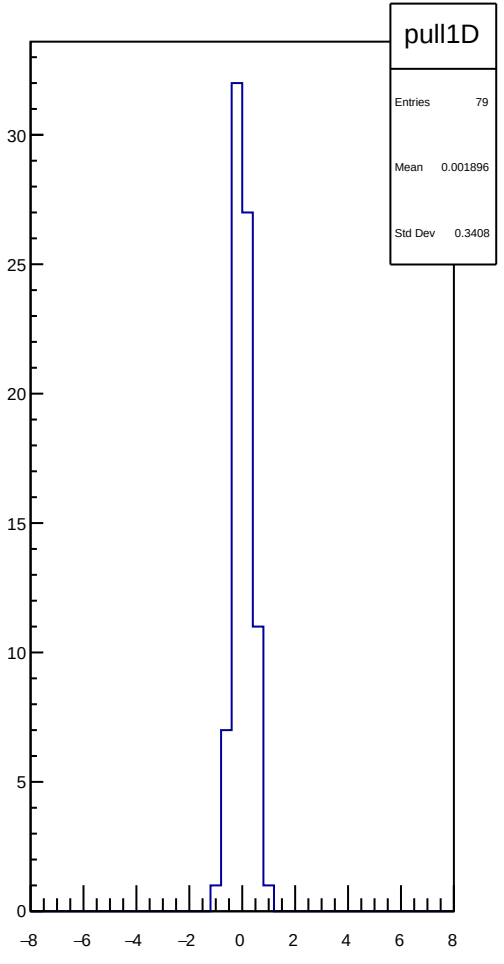

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.006 / 78
p0 −141.4 ± 8.274
pull
Entries 79
Mean −499.2
Std Dev 0

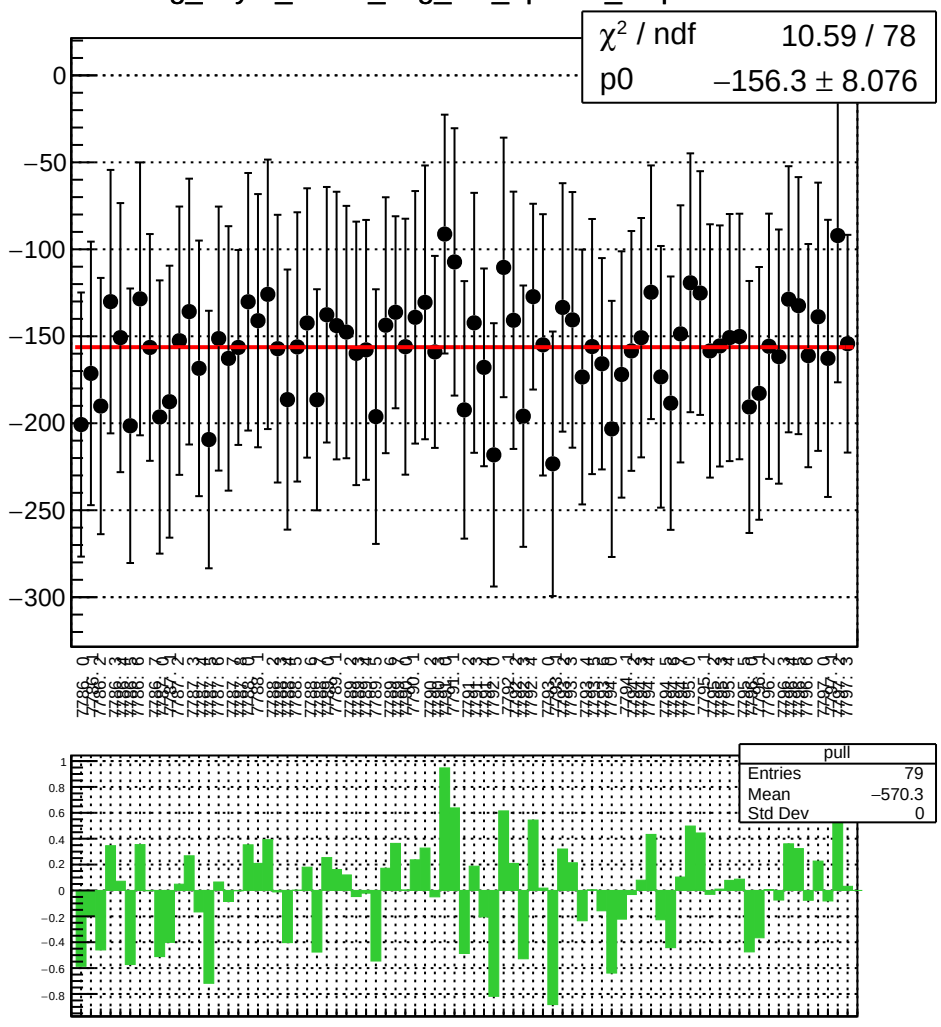

pull1D
Entries 79
Mean 0.001394
Std Dev 0.2978

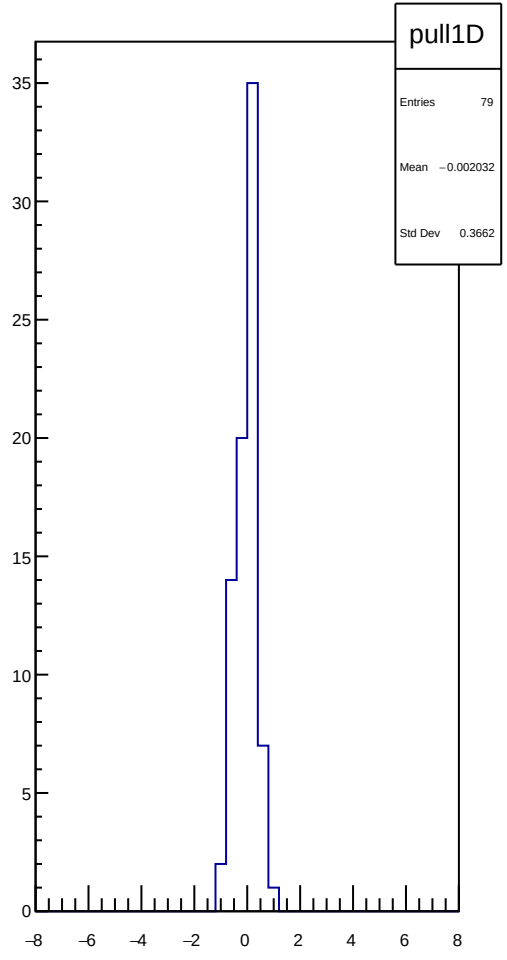

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.055 / 78
p0 −12.2 ± 10.95
150
100
50
0
−50
−100
−150
−200
pull
Entries 79
Mean 350.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

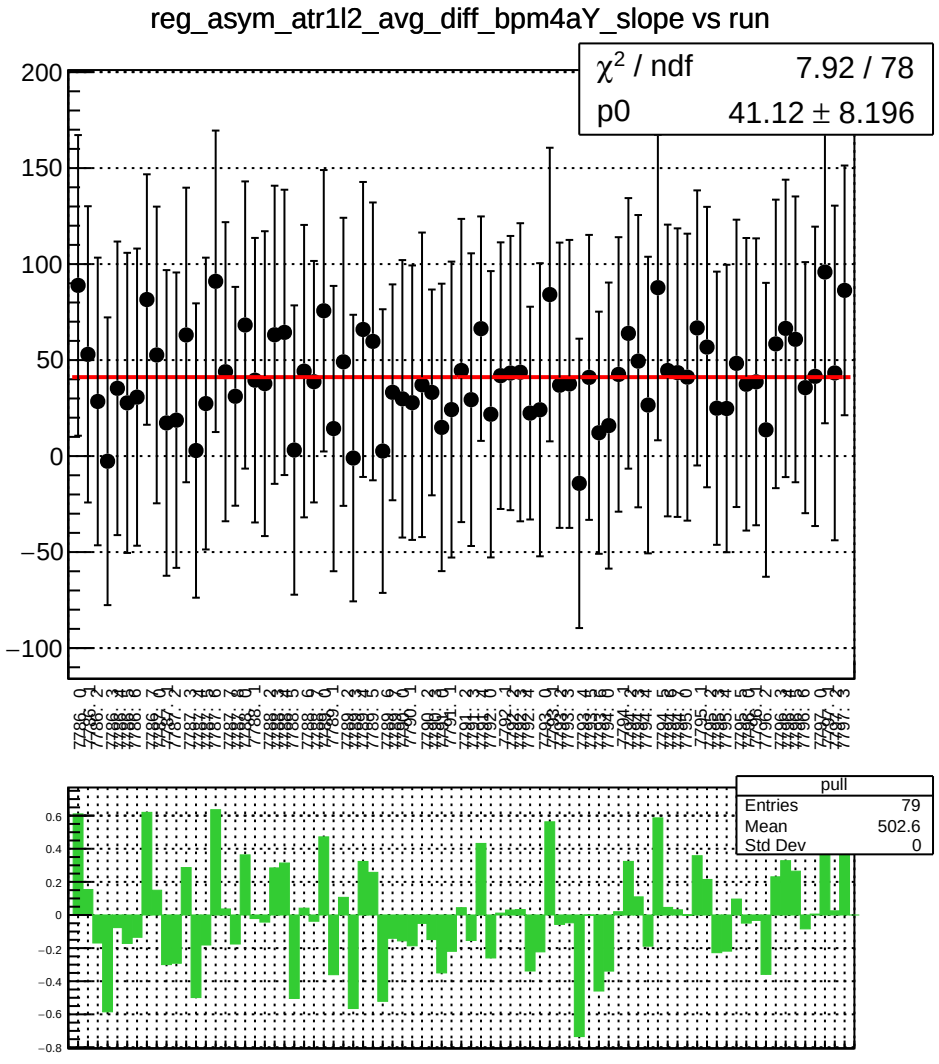

pull1D
Entries 79
Mean 0.002628
Std Dev 0.2988
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

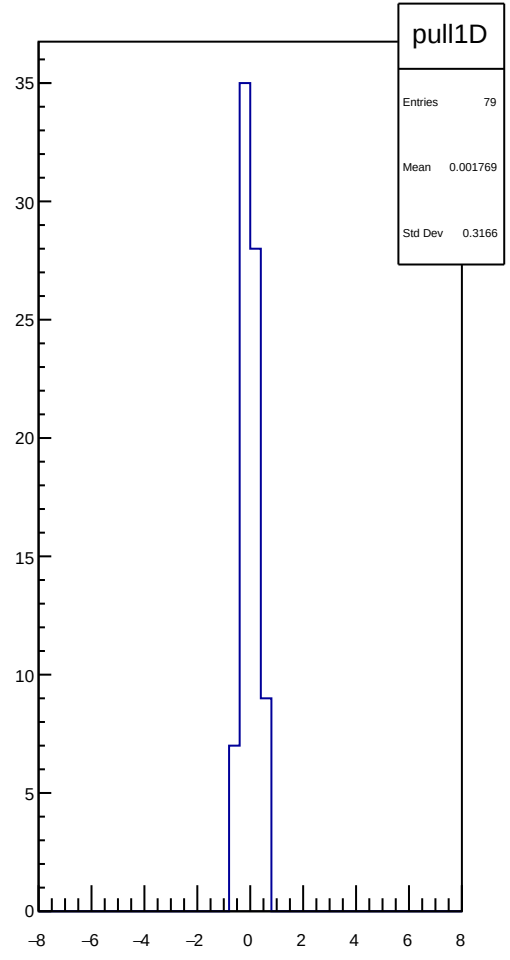

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 9.178 / 78
p0 146.4 ± 0.34
152
150
148
146
144
142
140
pull
Entries 79
Mean 99.86
Std Dev 70.87
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

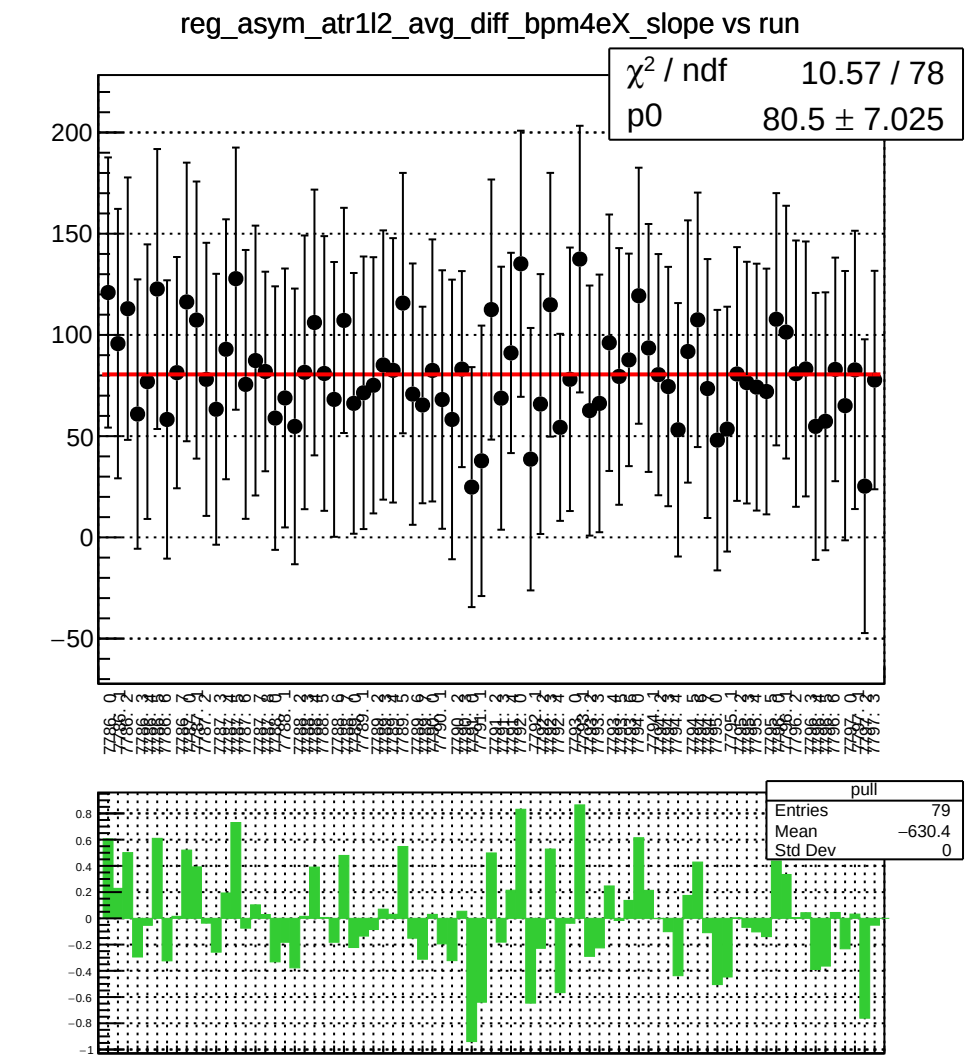

pull1D
Entries 79
Mean 0.001896
Std Dev 0.3408
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

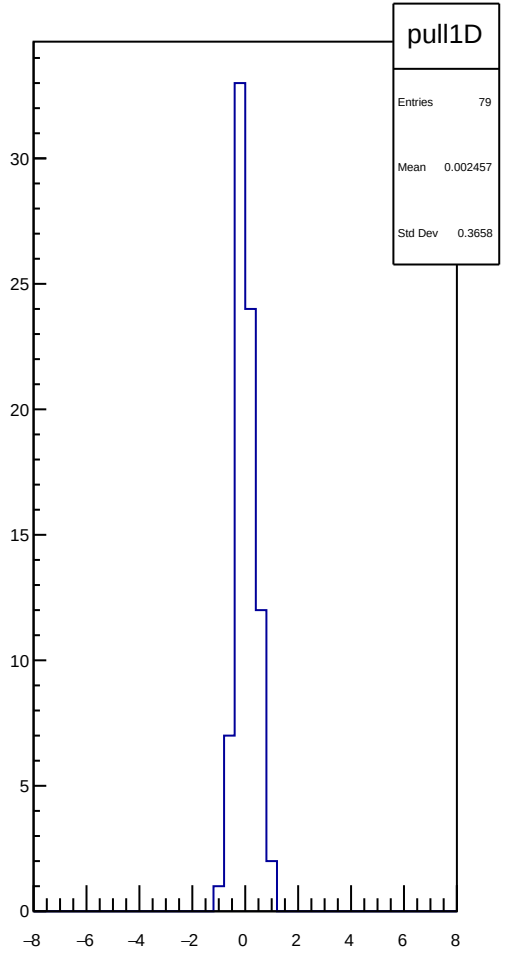

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.59 / 78
p0 −156.3 ± 8.076
pull
Entries 79
Mean −570.3
Std Dev 0

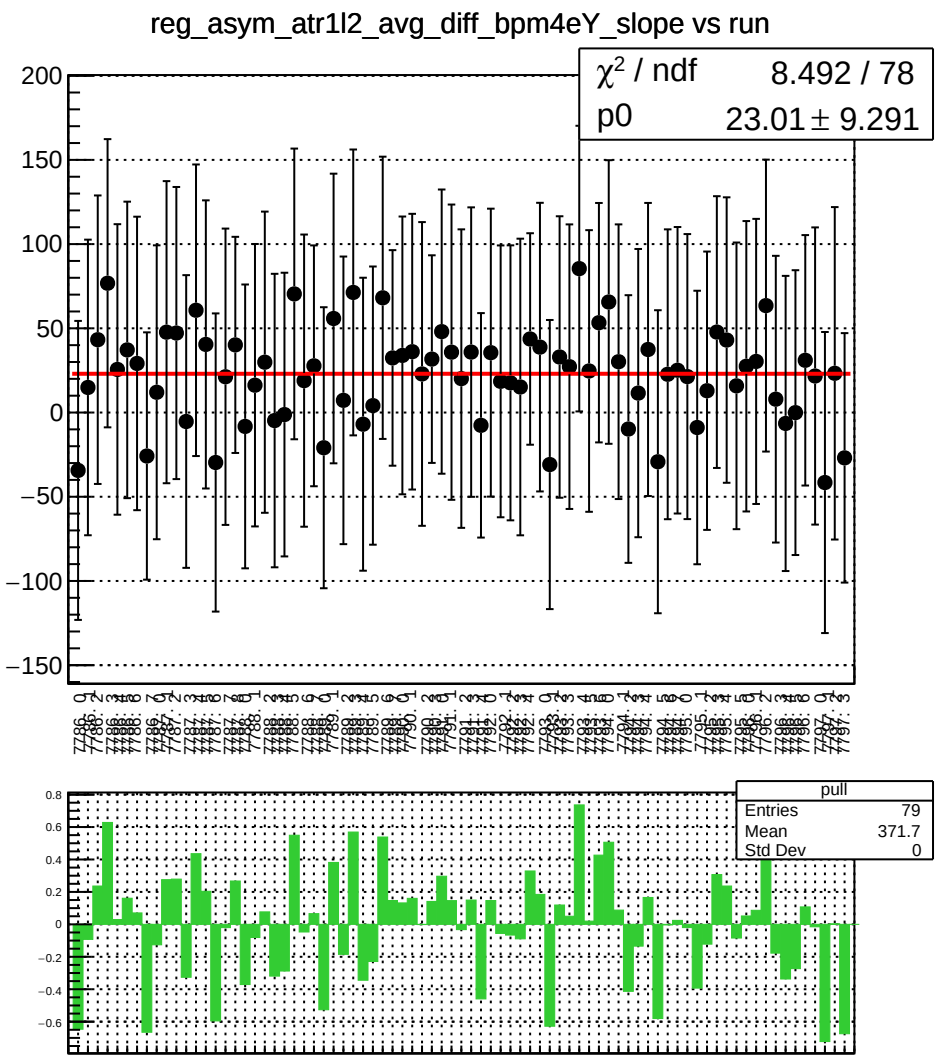

pull1D
Entries 79
Mean −0.002032
Std Dev 0.3662

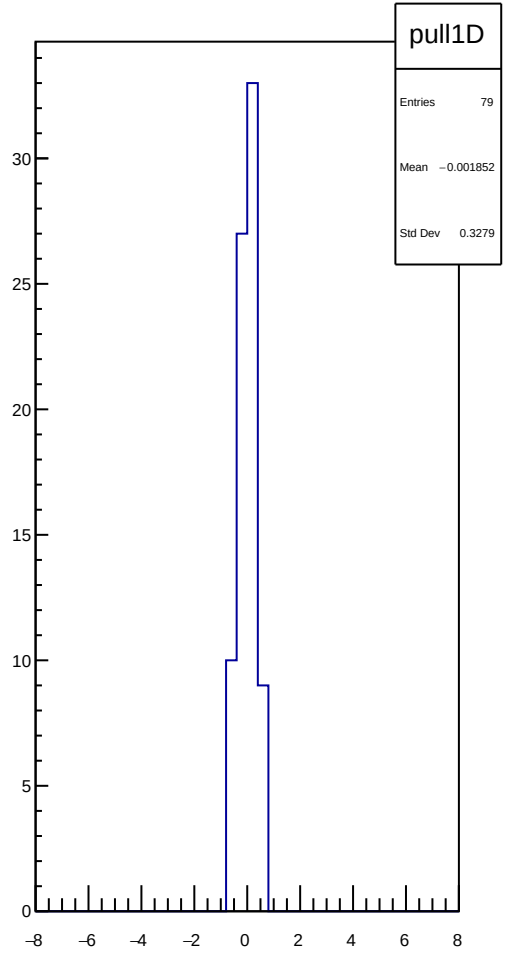

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.92 / 78
p0 41.12 ± 8.196
pull
Entries 79
Mean 502.6
Std Dev 0

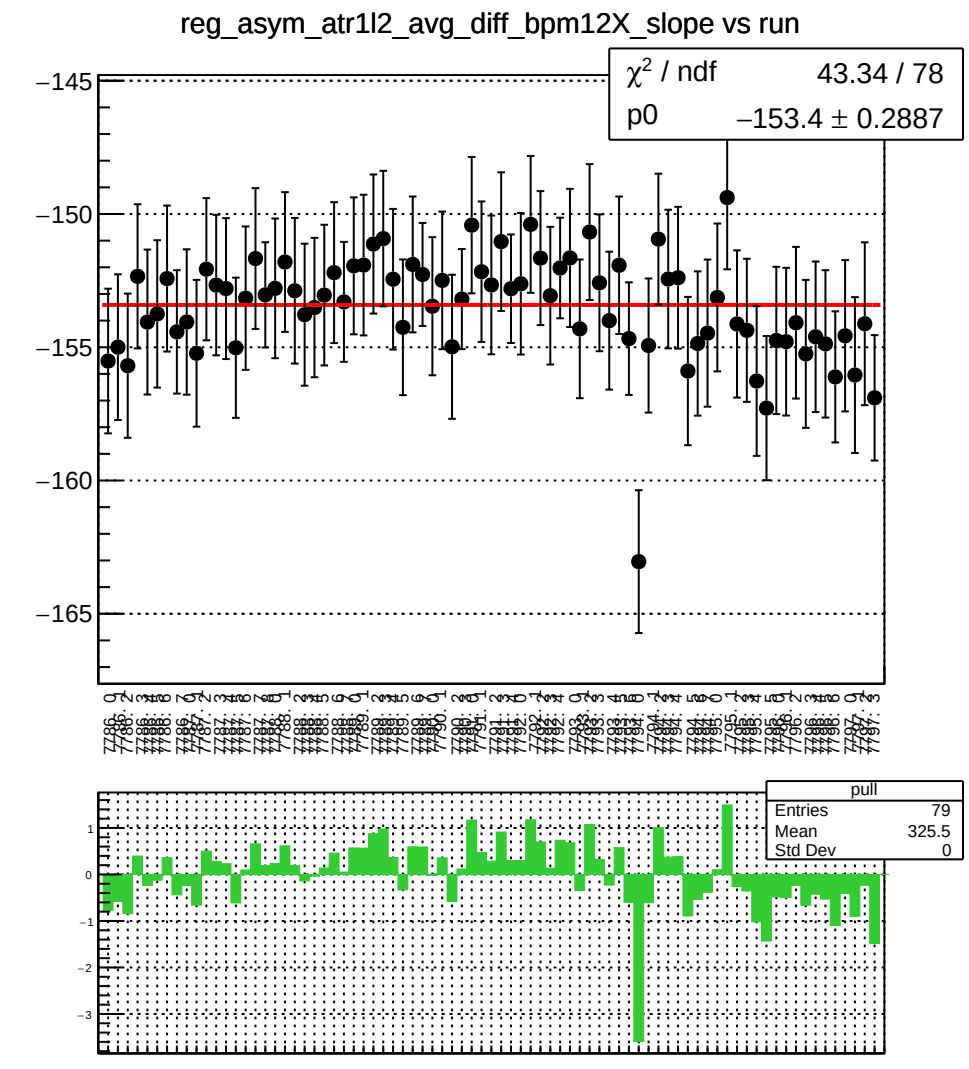

pull1D
Entries 79
Mean 0.001769
Std Dev 0.3166

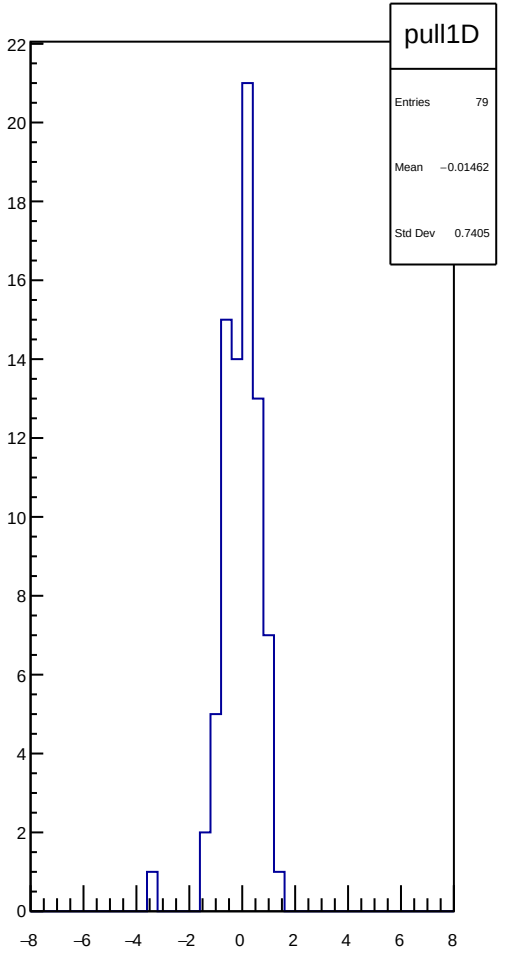

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.57 / 78
p0 80.5 ± 7.025
pull
Entries 79
Mean −630.4
Std Dev 0

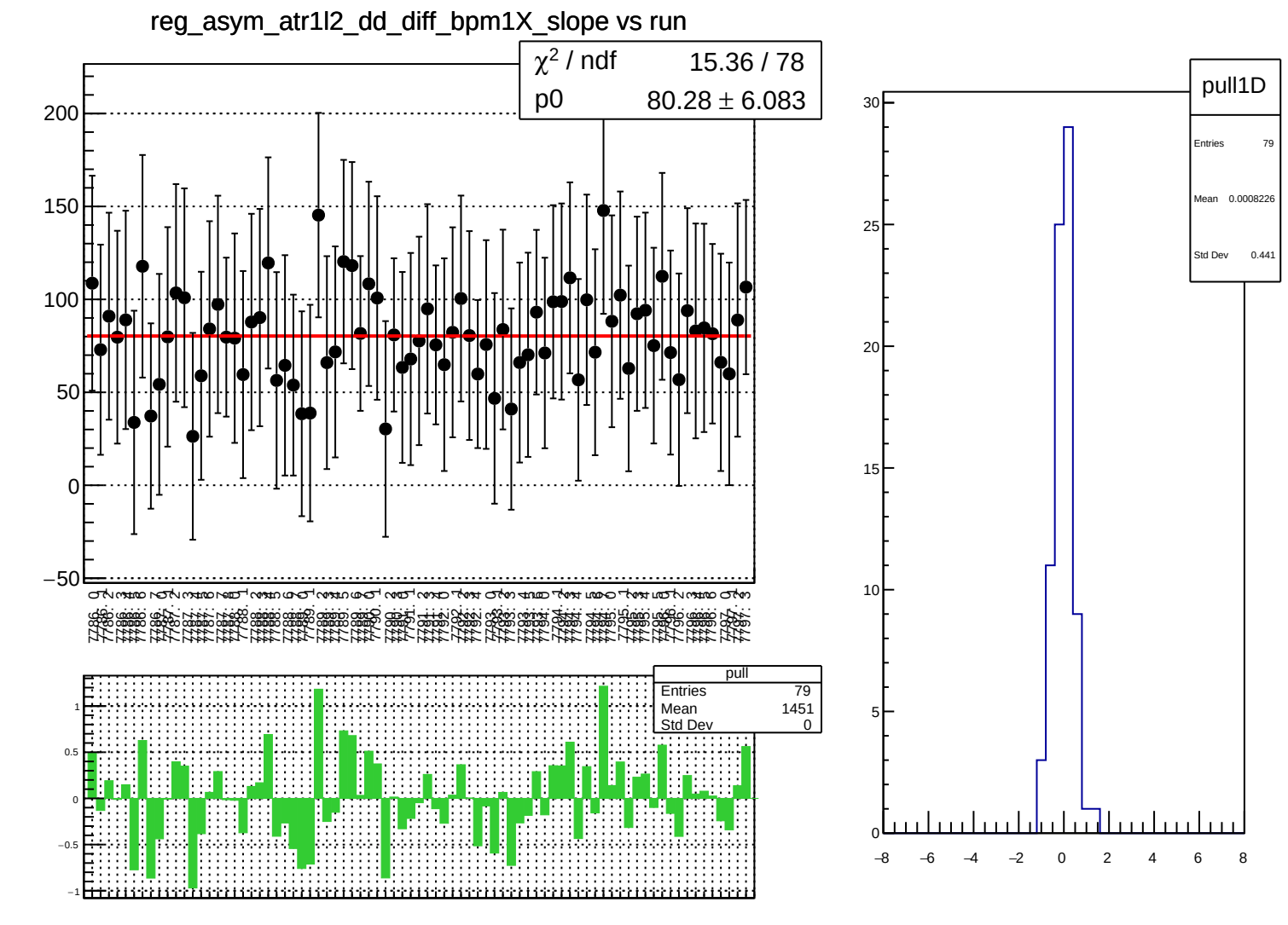

pull1D
Entries 79
Mean 0.002457
Std Dev 0.3658

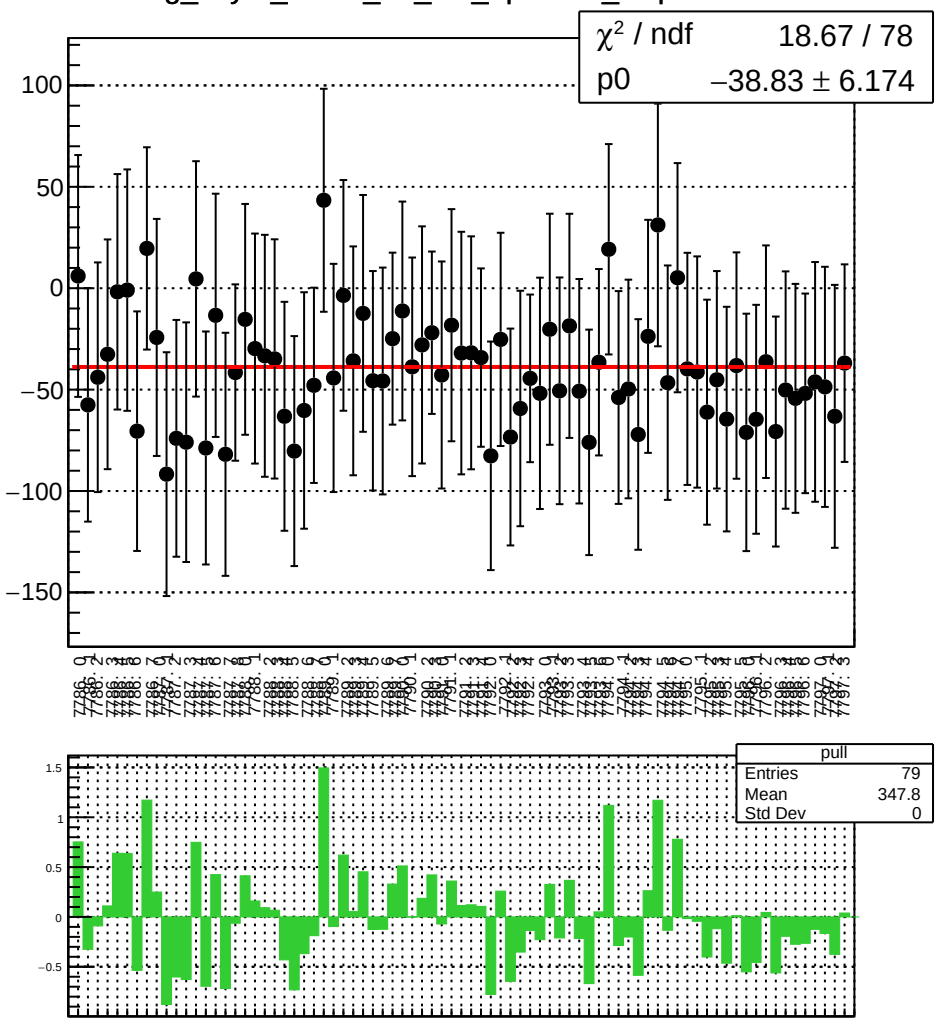

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.492 / 78
p0 23.01 ± 9.291
pull
Entries 79
Mean 371.7
Std Dev 0

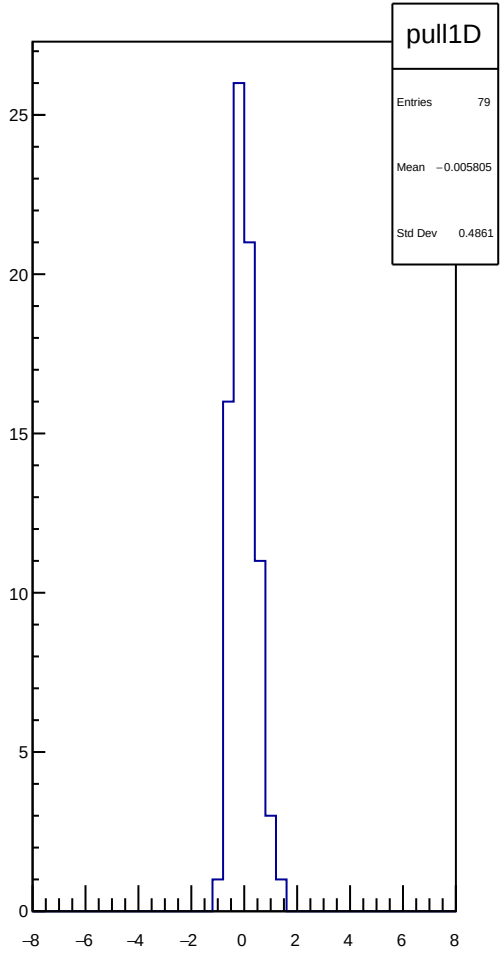

pull1D
Entries 79
Mean −0.001852
Std Dev 0.3279

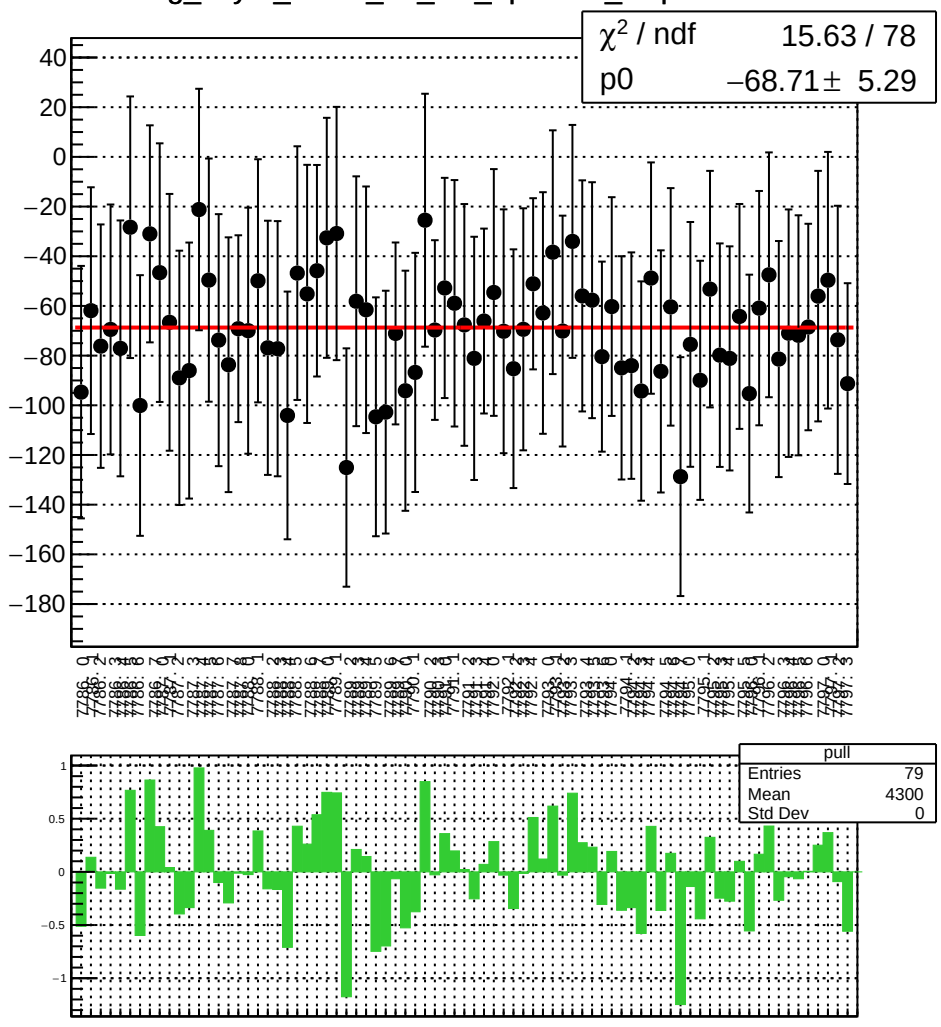

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 43.34 / 78
p0 −153.4 ± 0.2887
−145
−150
−155
−160
−165
pull
Entries 79
Mean 325.5
Std Dev 0
1
0
−1
−2
−3

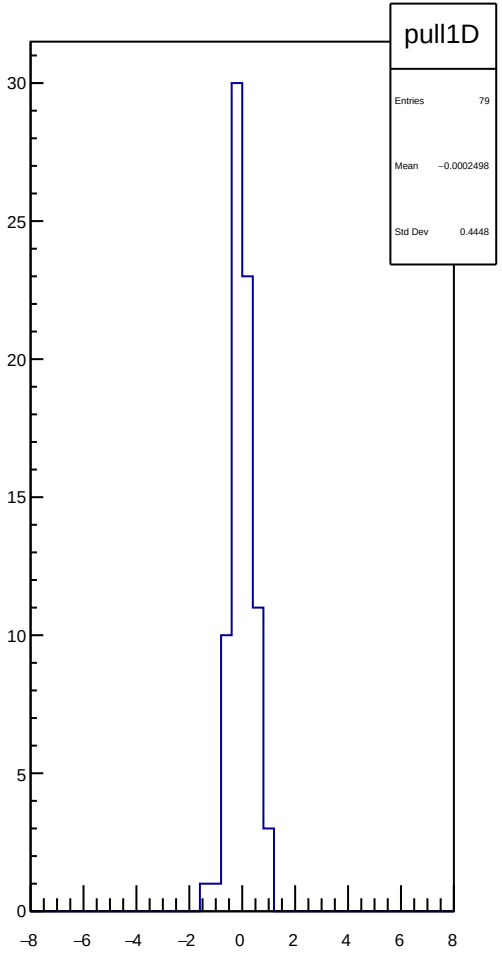

pull1D
Entries 79
Mean −0.01462
Std Dev 0.7405
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

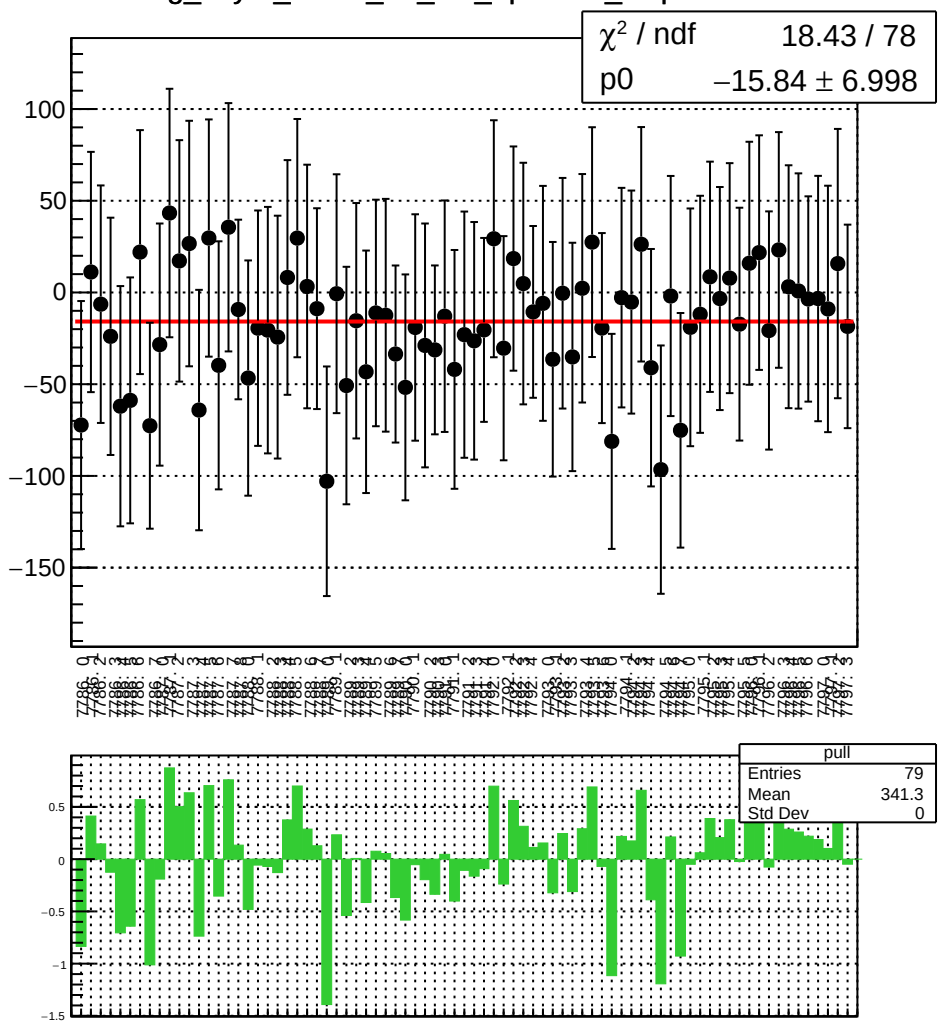

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 15.36 / 78
p0 80.28 ± 6.083
pull
Entries 79
Mean 1451
Std Dev 0
pull1D
Entries 79
Mean 0.0008226
Std Dev 0.441

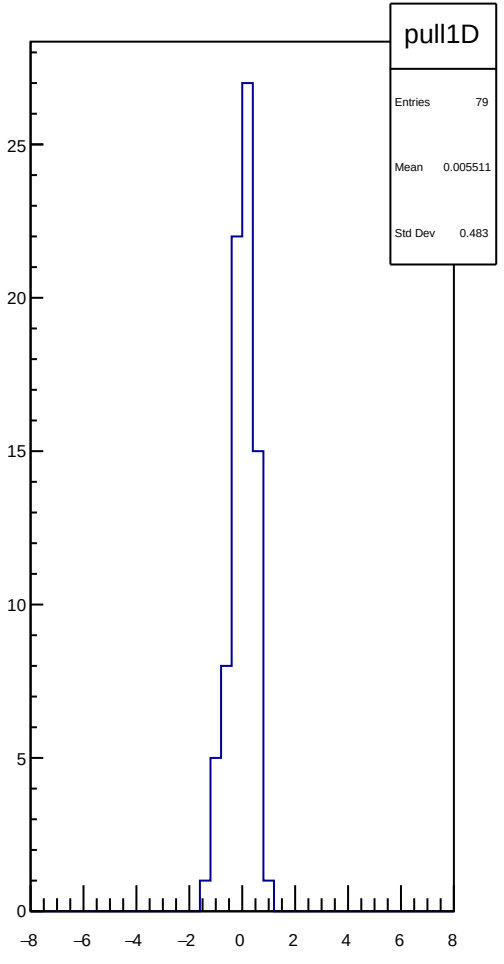

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.67 / 78
p0 −38.83 ± 6.174
pull
Entries 79
Mean 347.8
Std Dev 0

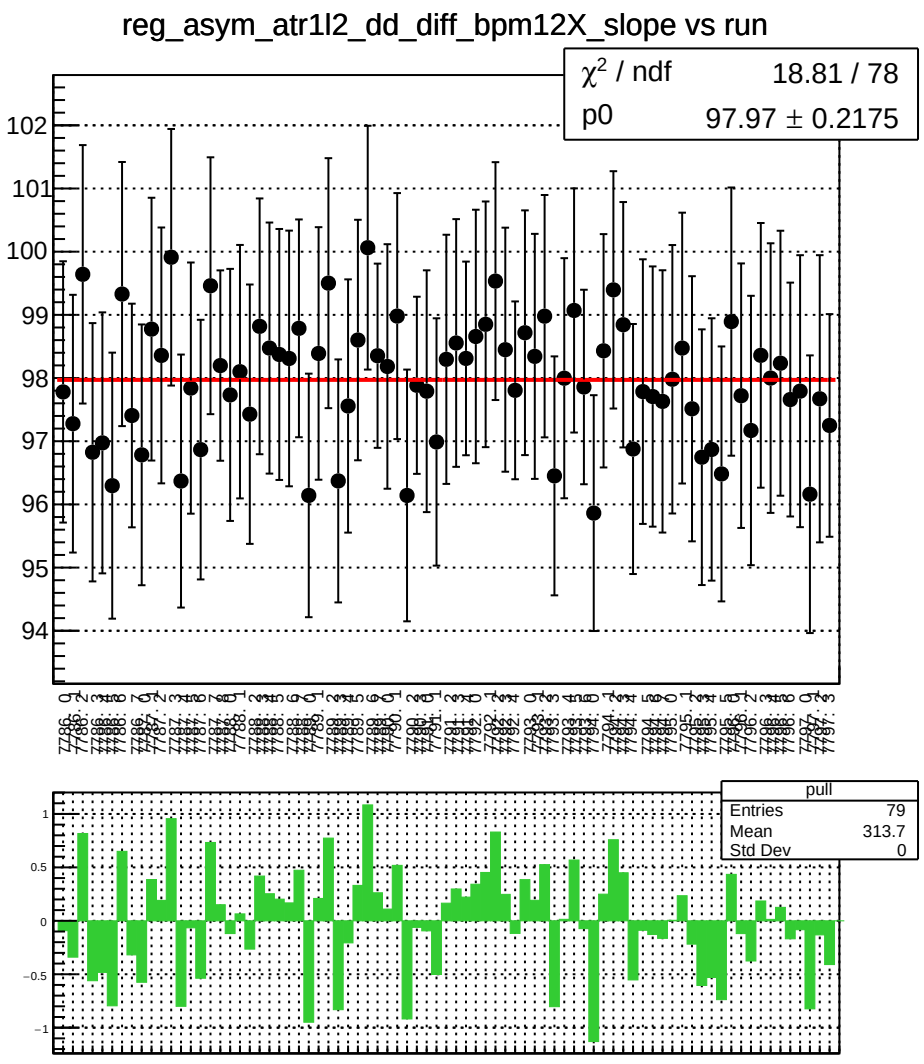

pull1D
Entries 79
Mean −0.005805
Std Dev 0.4861

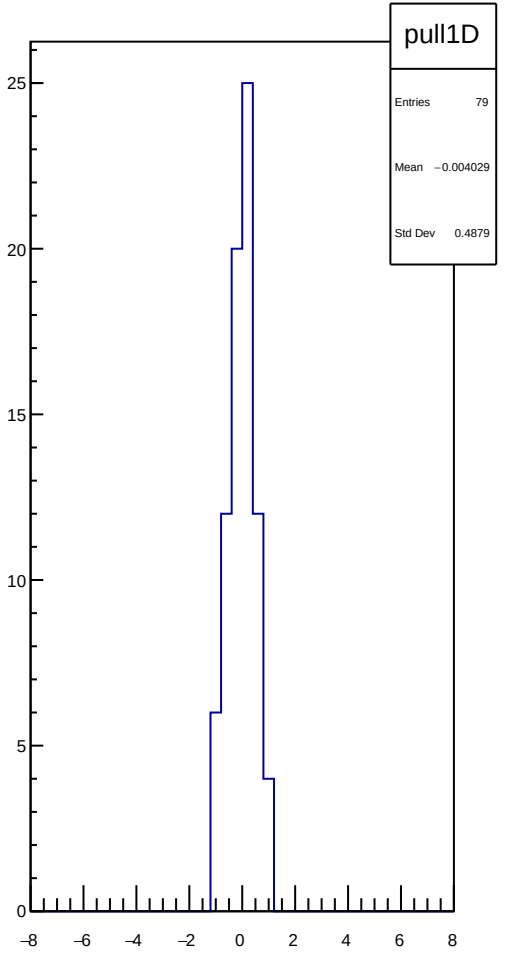

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.63 / 78
p0 −68.71 ± 5.29
pull
Entries 79
Mean 4300
Std Dev 0

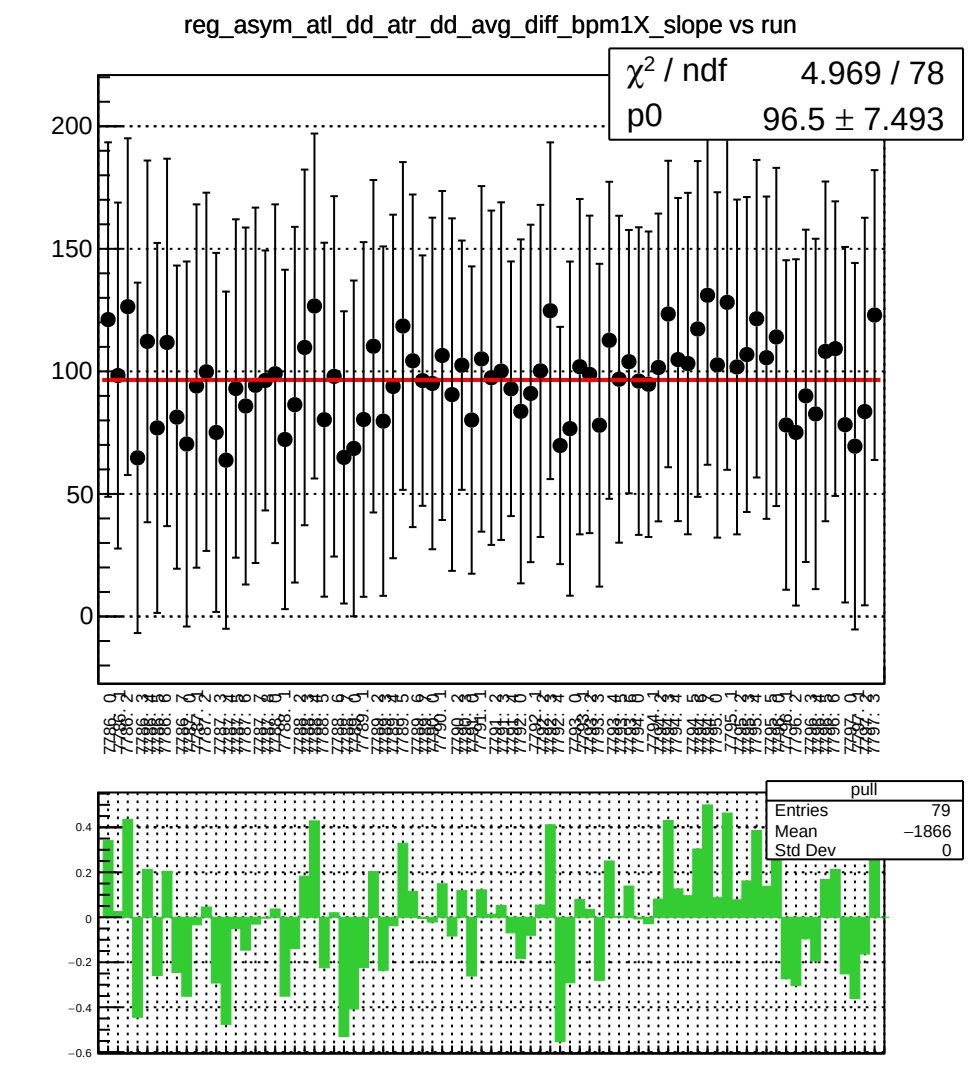

pull1D
Entries 79
Mean −0.0002498
Std Dev 0.4448

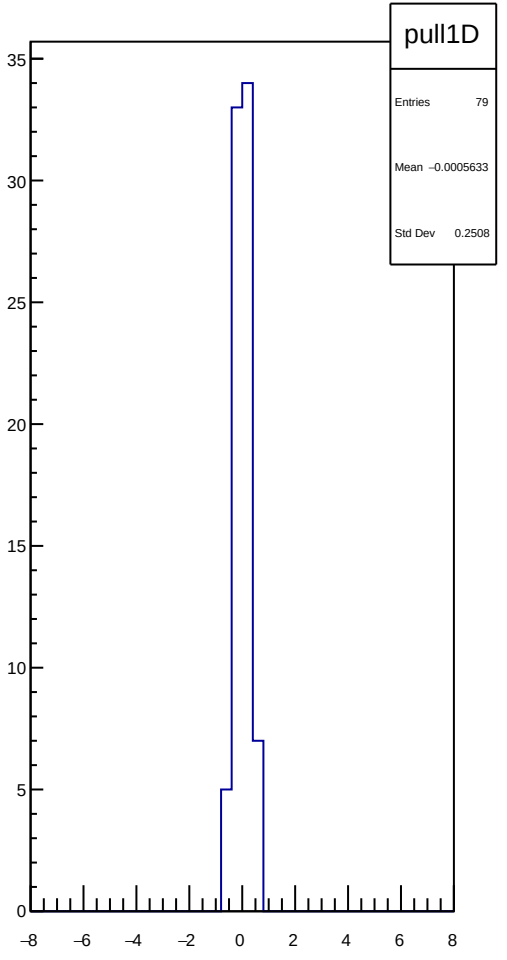

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.43 / 78
p0 −15.84 ± 6.998
pull
Entries 79
Mean 341.3
Std Dev 0

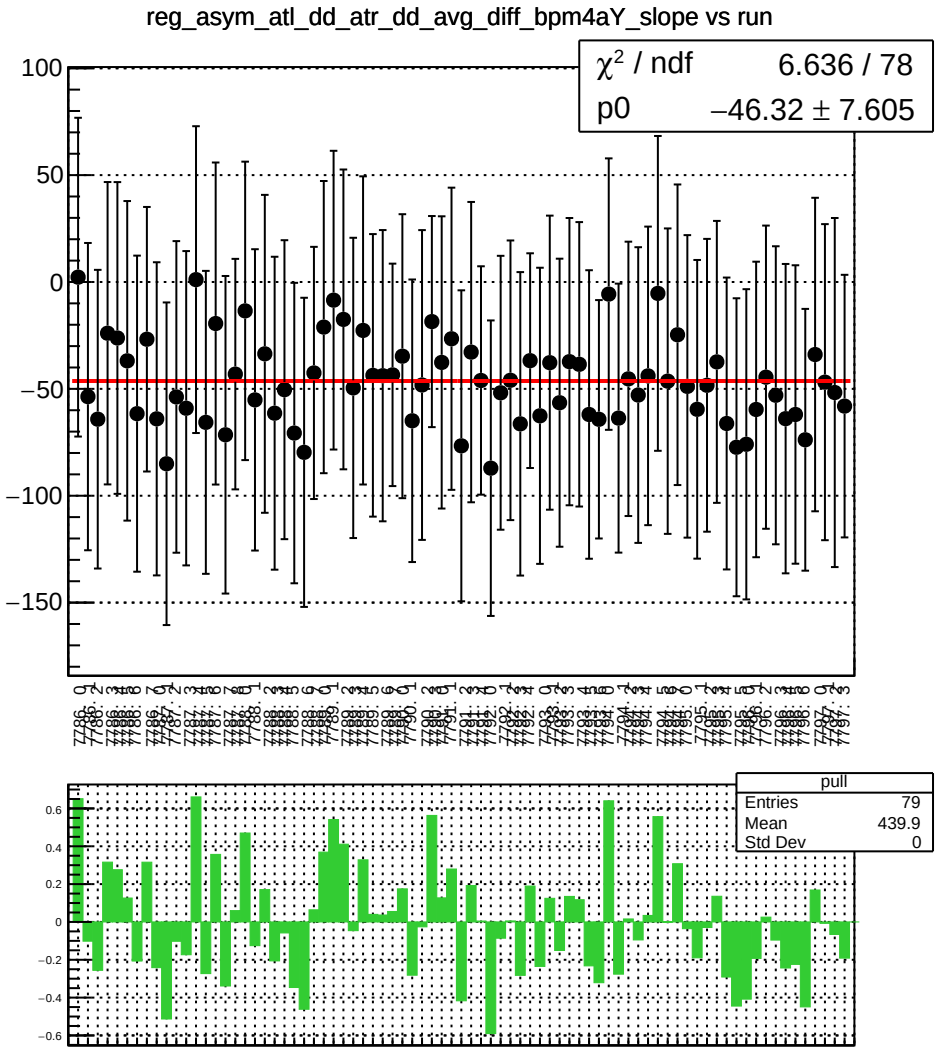

pull1D
Entries 79
Mean 0.005511
Std Dev 0.483

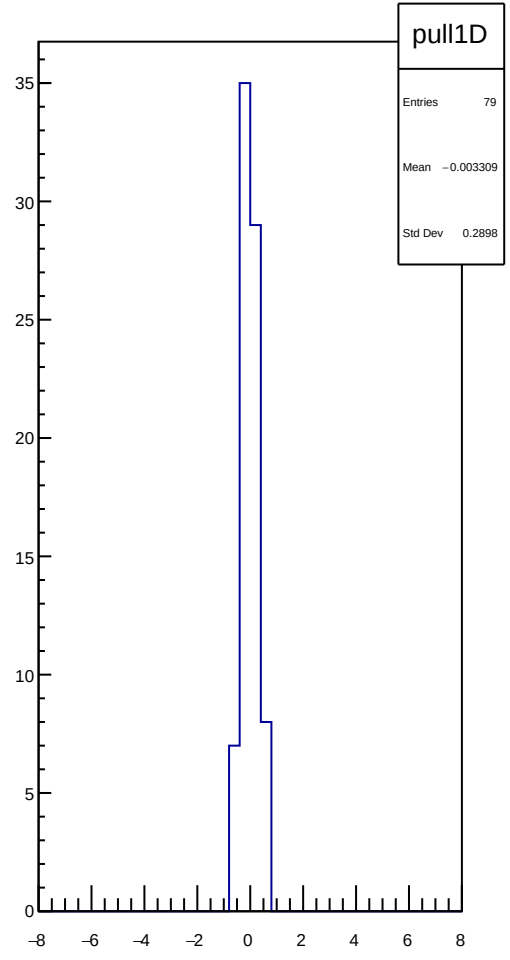

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 18.81 / 78
p0 97.97 ± 0.2175
pull
Entries 79
Mean 313.7
Std Dev 0

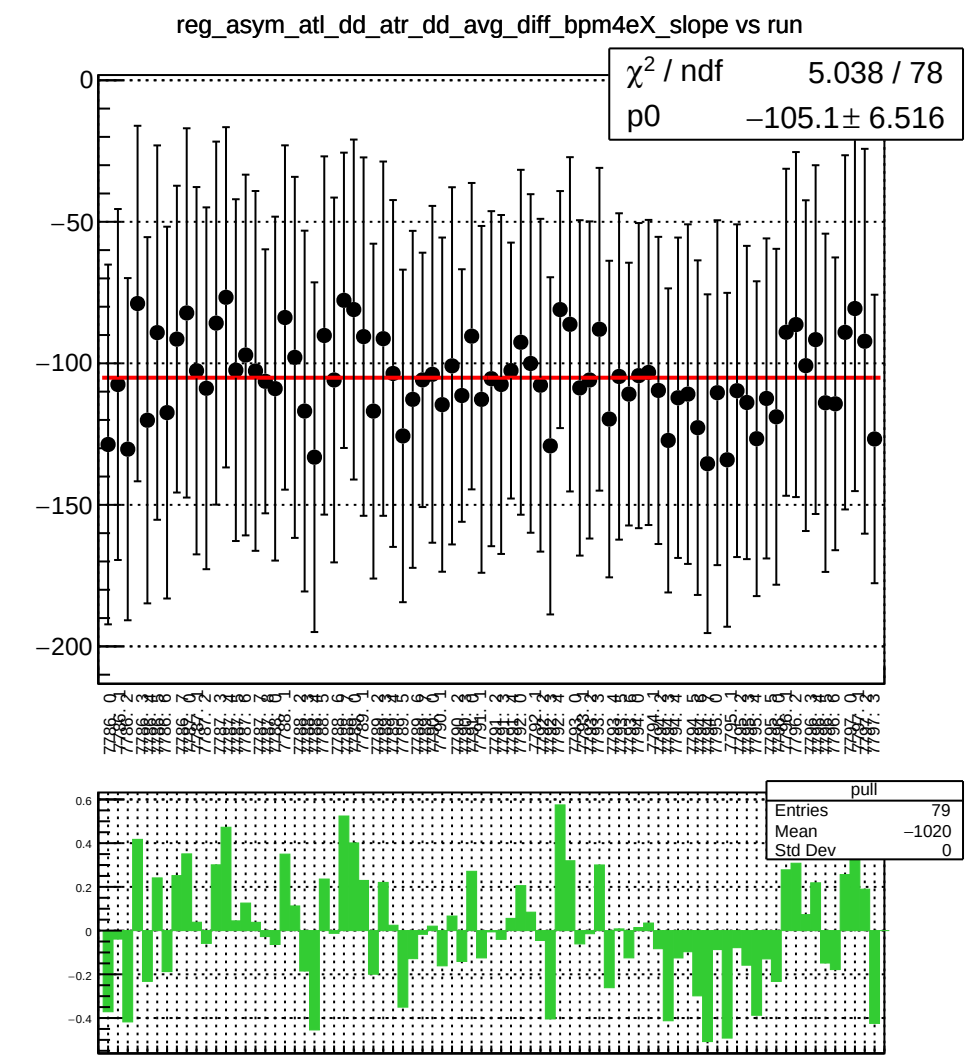

pull1D
Entries 79
Mean −0.004029
Std Dev 0.4879

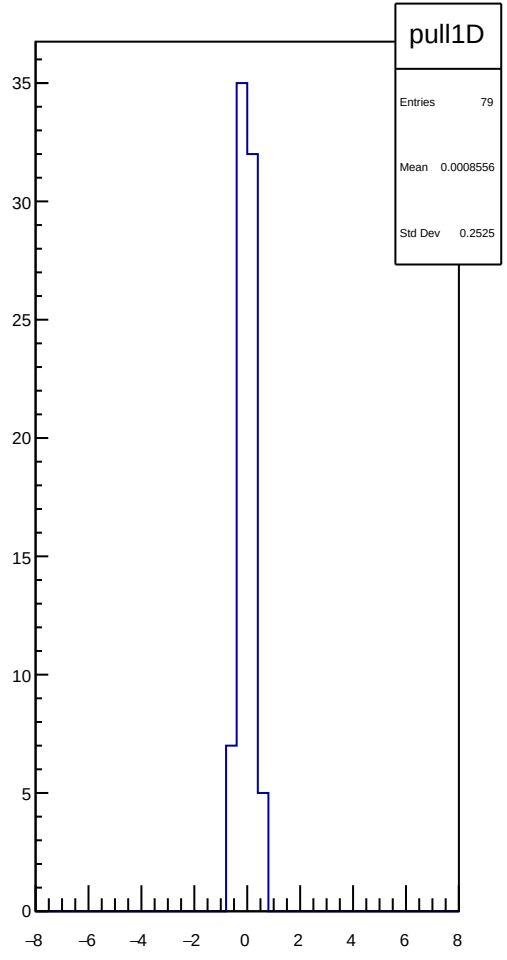

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 4.969 / 78
p0 96.5 ± 7.493
200
150
100
50
0
pull
Entries 79
Mean −1866
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

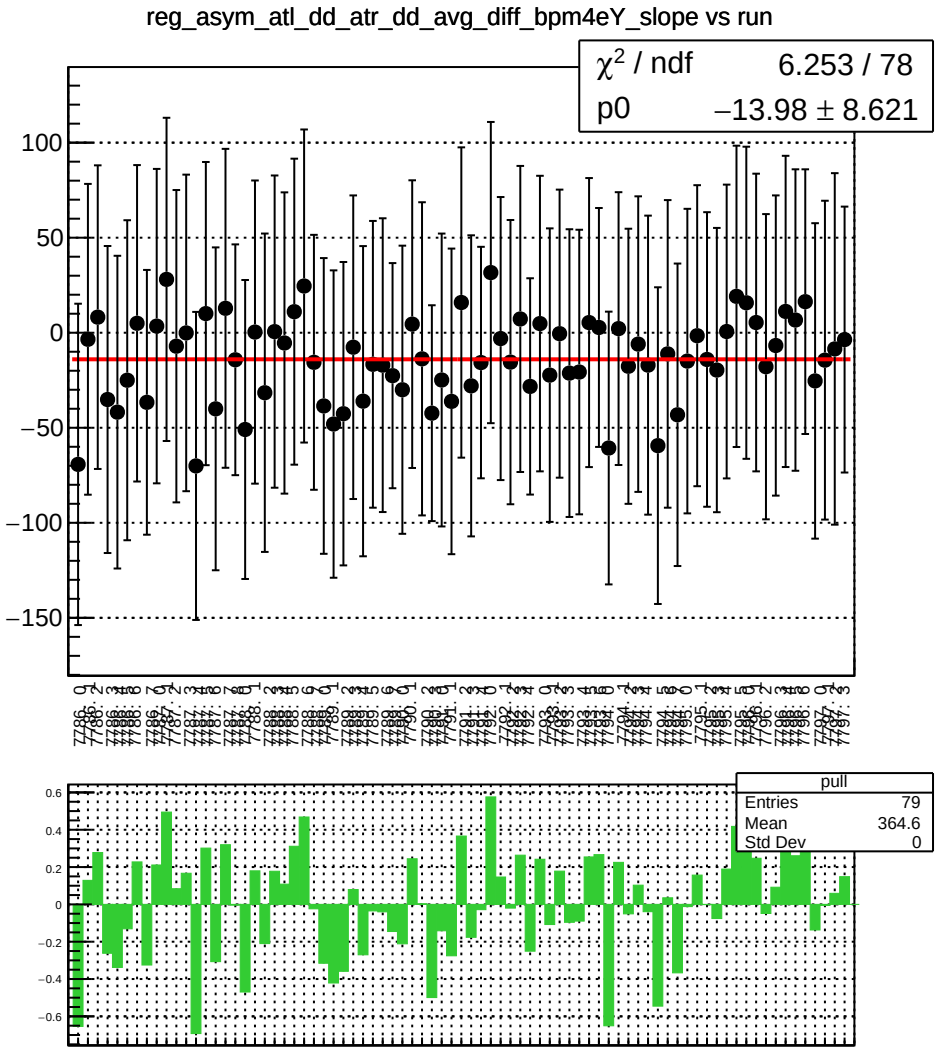

pull1D
Entries 79
Mean −0.0005633
Std Dev 0.2508
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

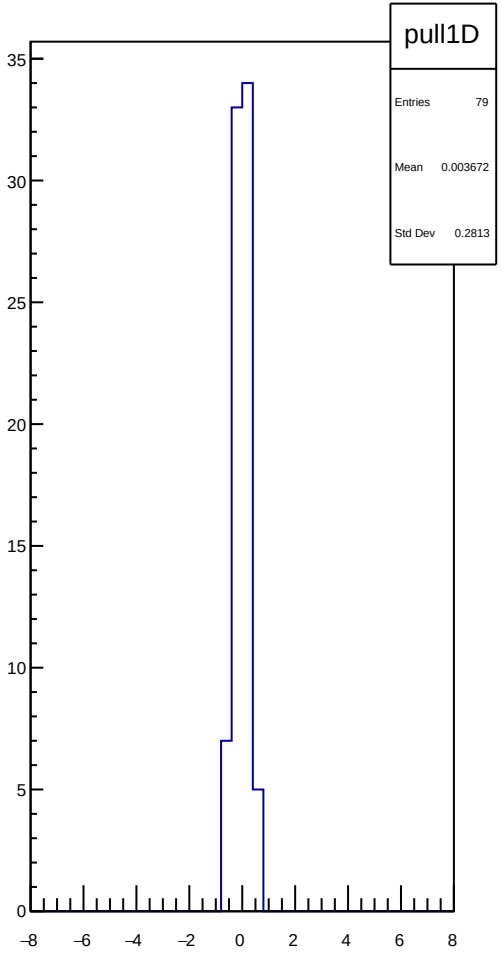

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.636 / 78
p0 −46.32 ± 7.605
pull
Entries 79
Mean 439.9
Std Dev 0

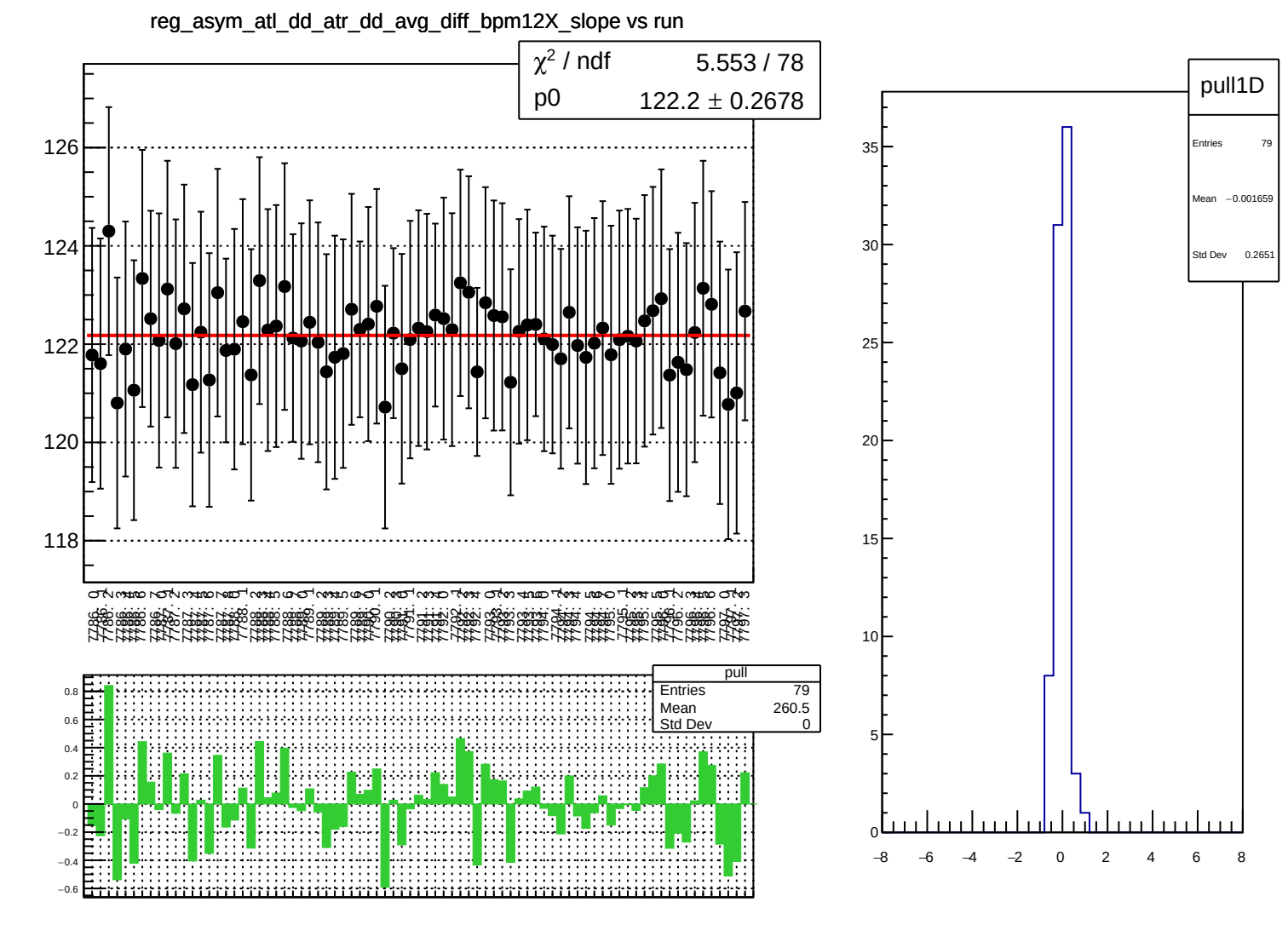

pull1D
Entries 79
Mean −0.003309
Std Dev 0.2898

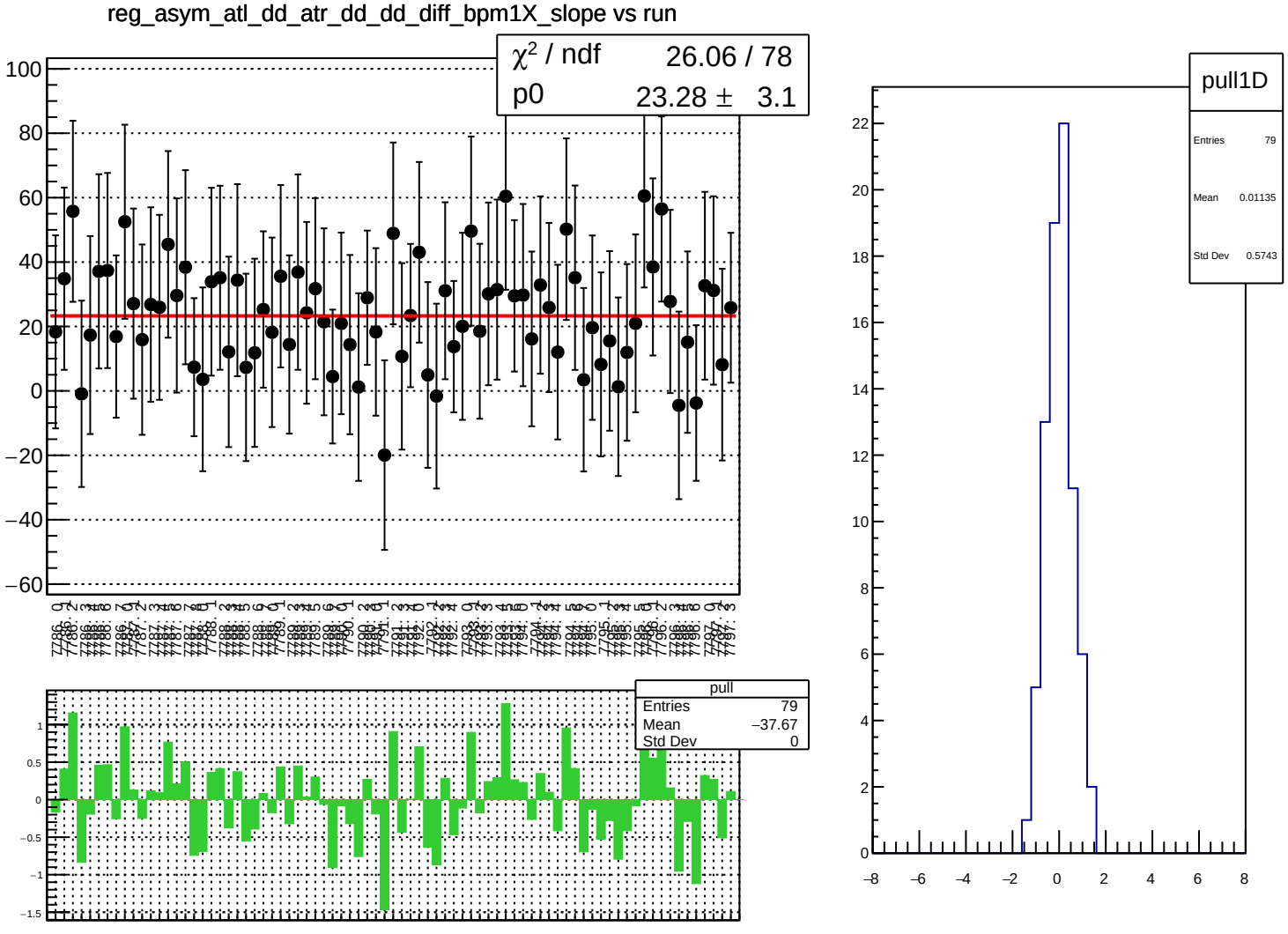

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.038 / 78
p0 −105.1± 6.516
pull
Entries 79
Mean −1020
Std Dev 0

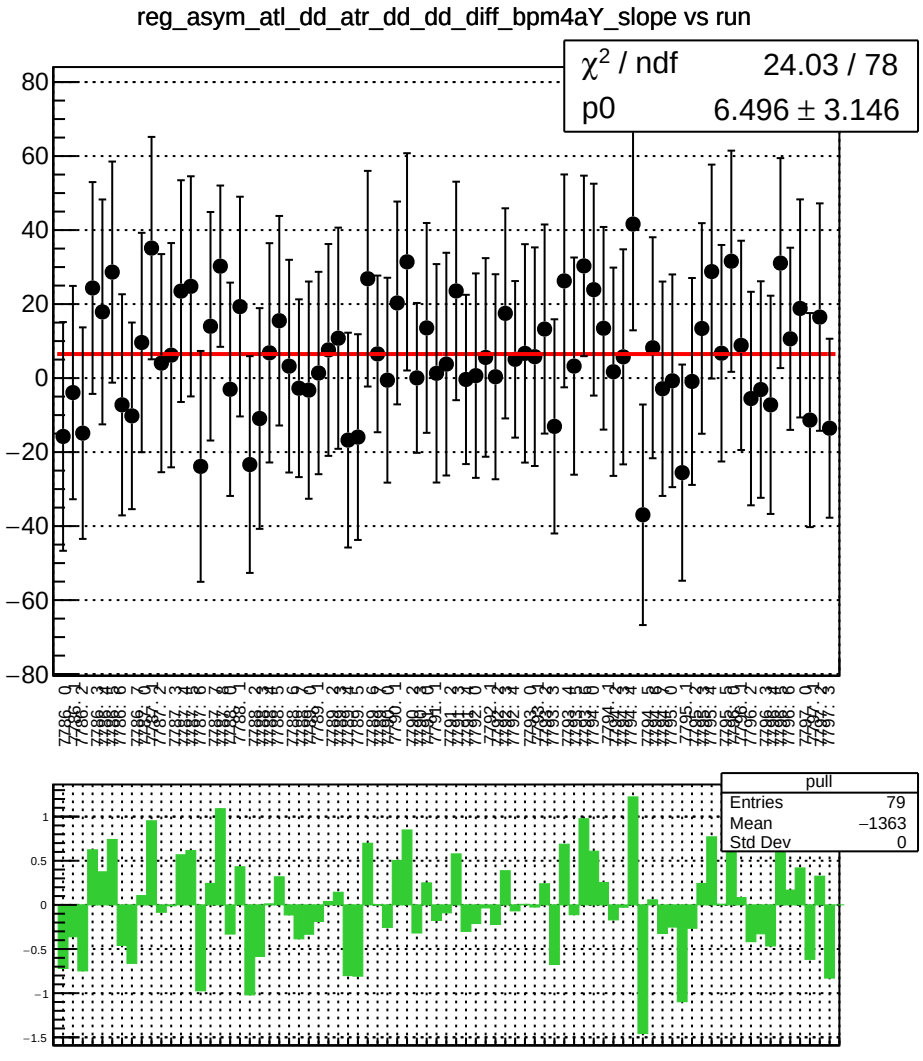

pull1D
Entries 79
Mean 0.0008556
Std Dev 0.2525

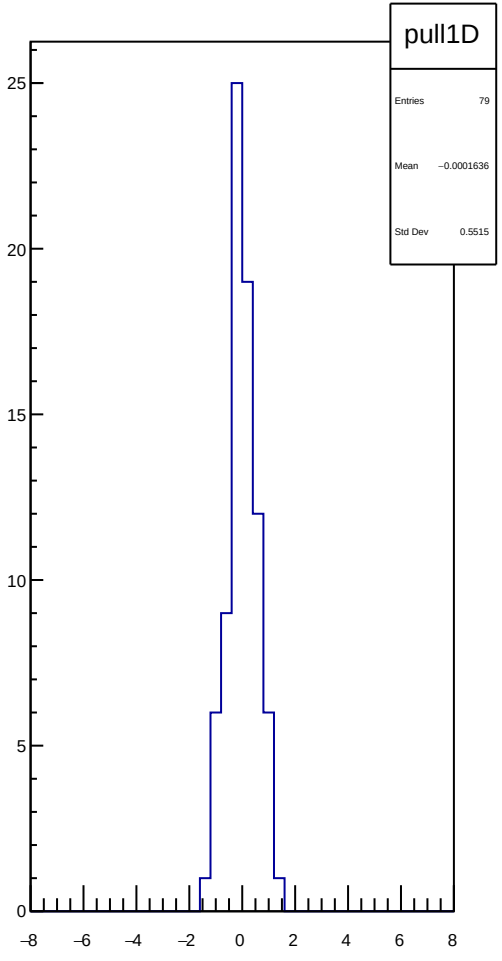

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.253 / 78
p0 −13.98 ± 8.621
pull
Entries 79
Mean 364.6
Std Dev 0

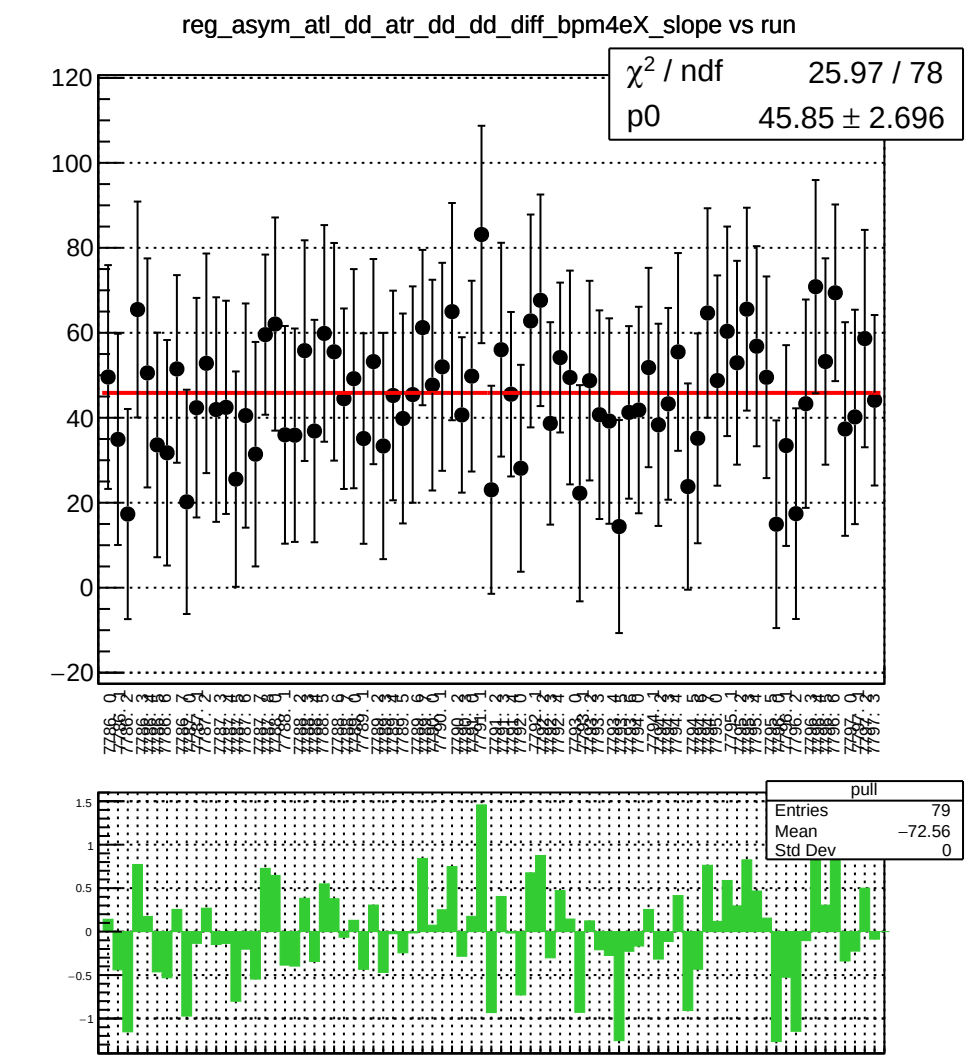

pull1D
Entries 79
Mean 0.003672
Std Dev 0.2813

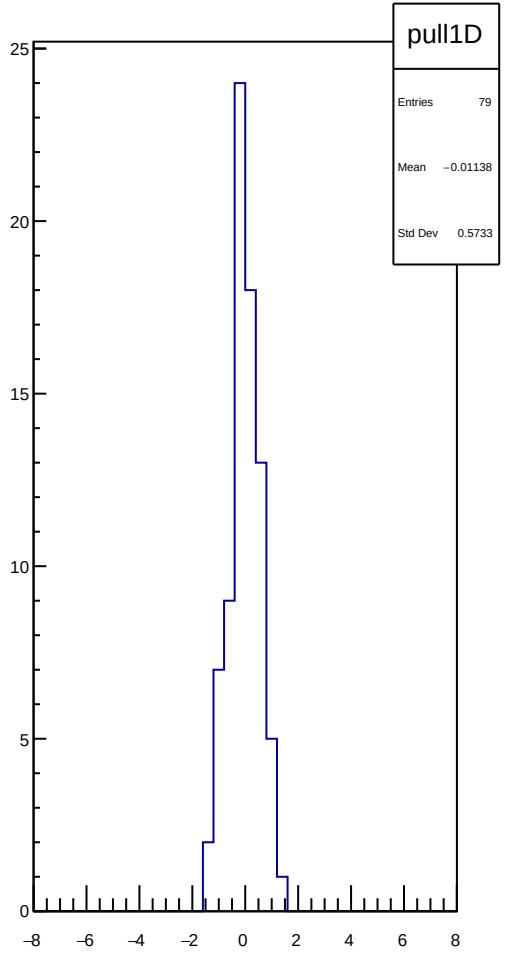

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 5.553 / 78
p0 122.2 ± 0.2678
126
124
122
120
118
pull
Entries 79
Mean 260.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 79
Mean −0.001659
Std Dev 0.2651
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

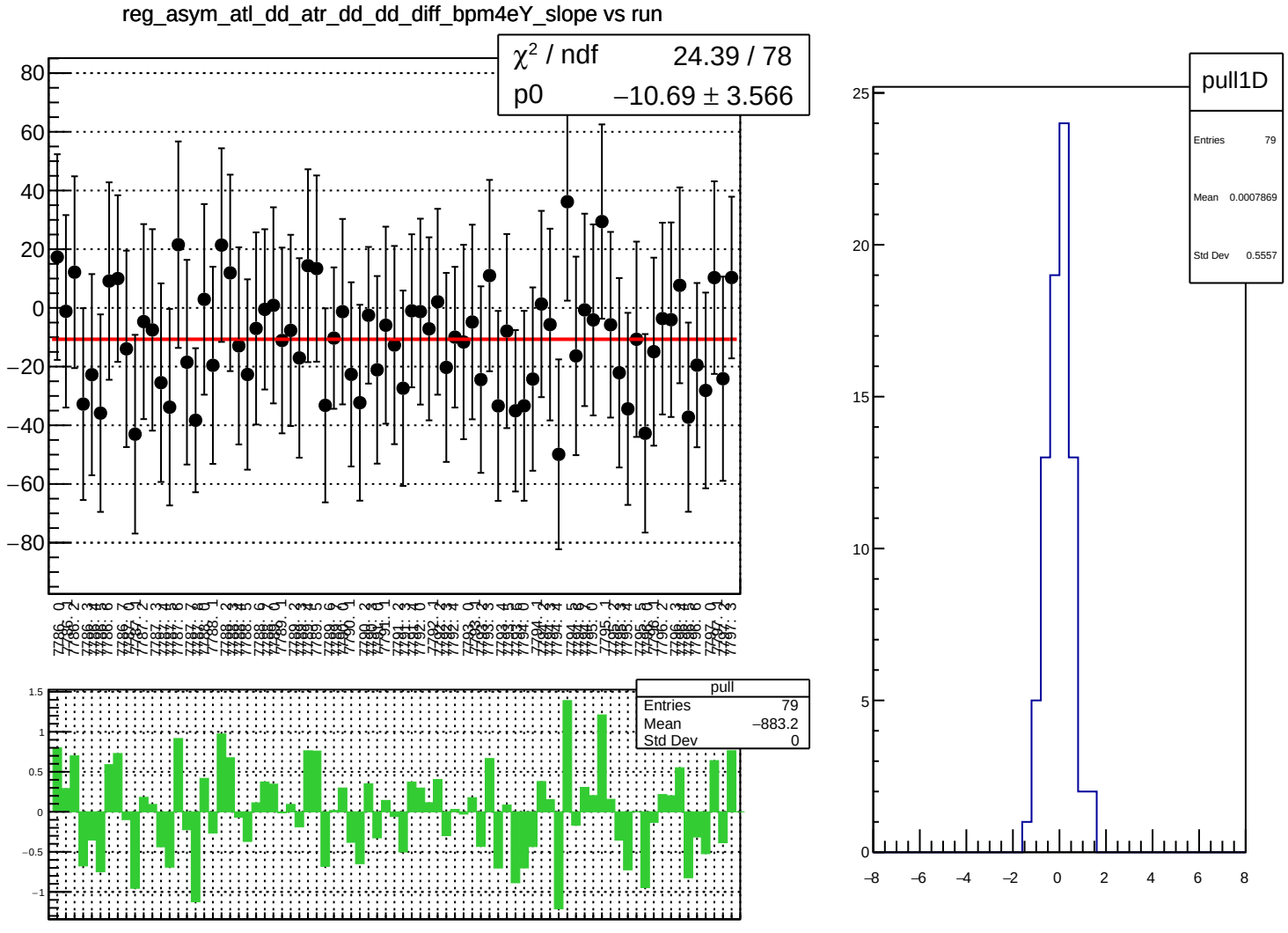

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 26.06 / 78
p0 23.28 ± 3.1
pull
Entries 79
Mean −37.67
Std Dev 0
pull1D
Entries 79
Mean 0.01135
Std Dev 0.5743

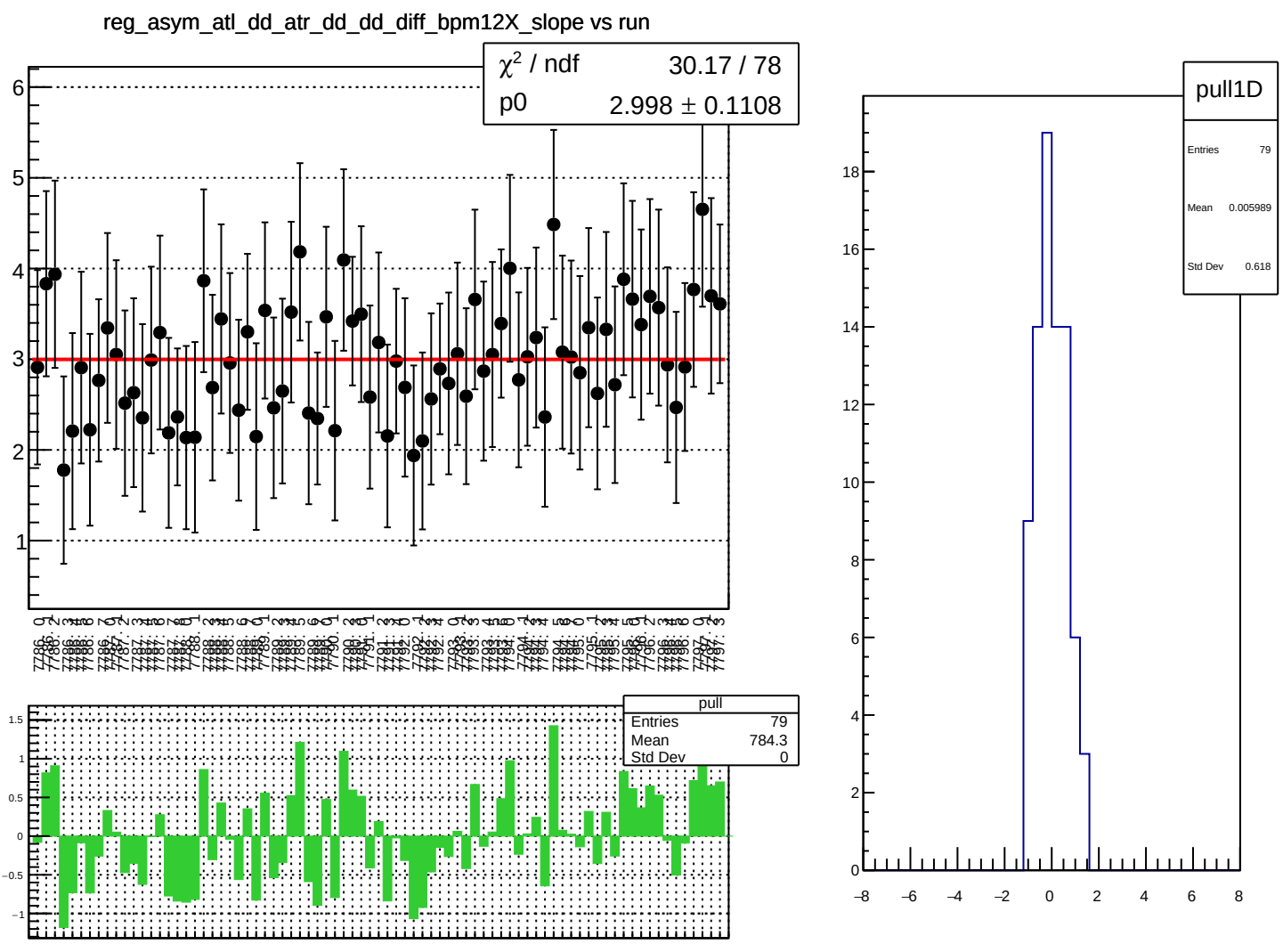

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.03 / 78
p0 6.496 ± 3.146
pull
Entries 79
Mean −1363
Std Dev 0

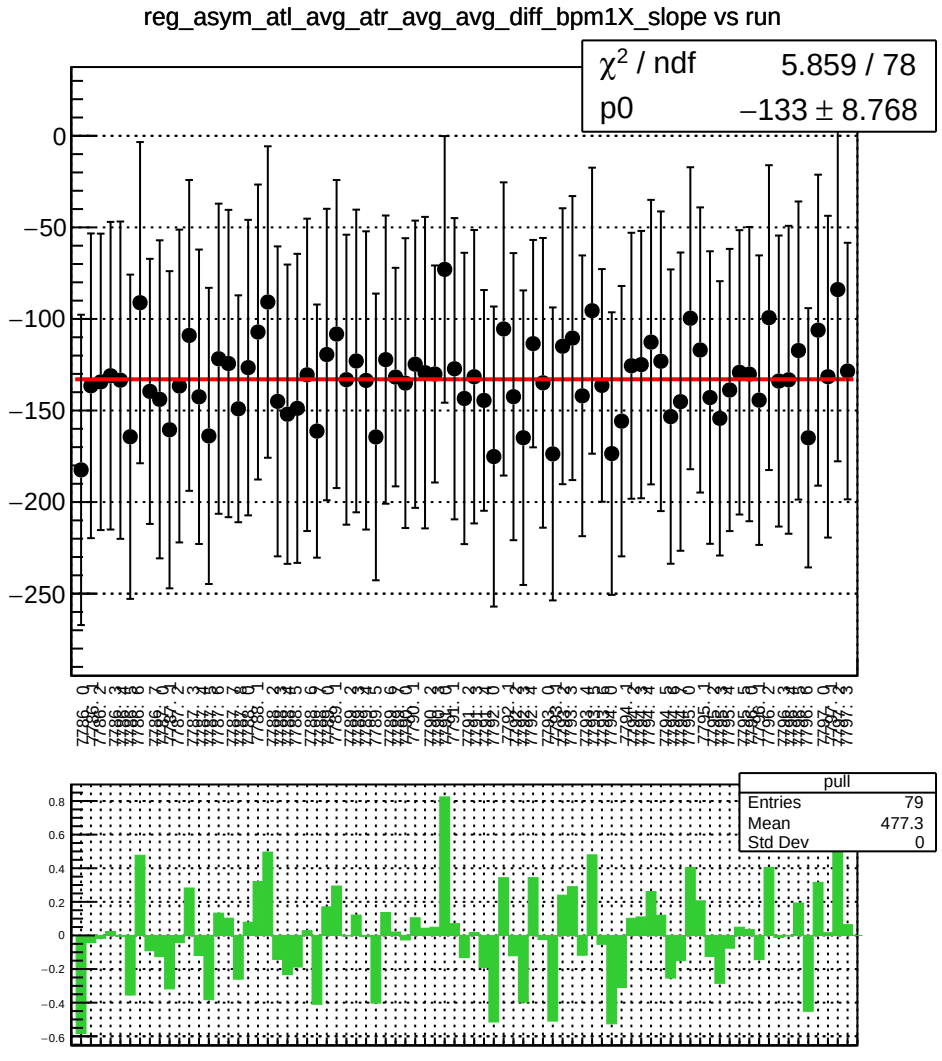

pull1D
Entries 79
Mean −0.0001636
Std Dev 0.5515

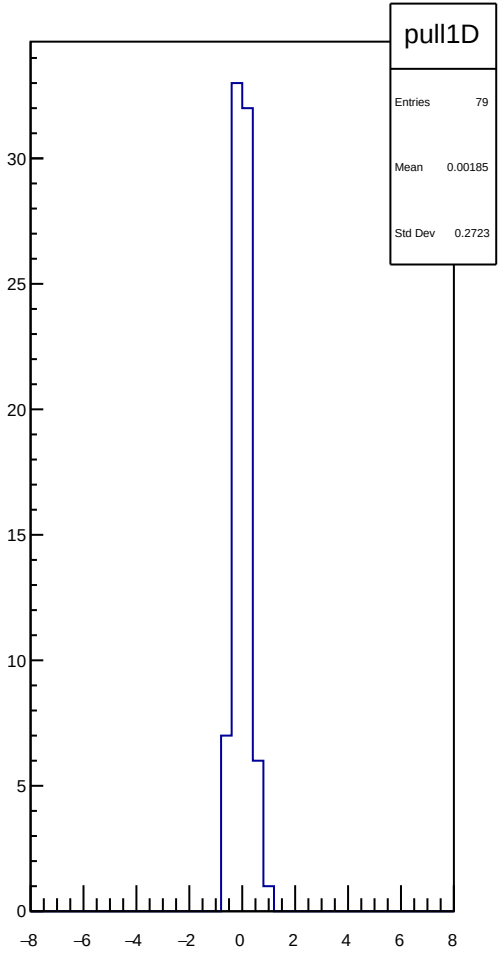

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.97 / 78
p0 45.85 ± 2.696
pull
Entries 79
Mean −72.56
Std Dev 0

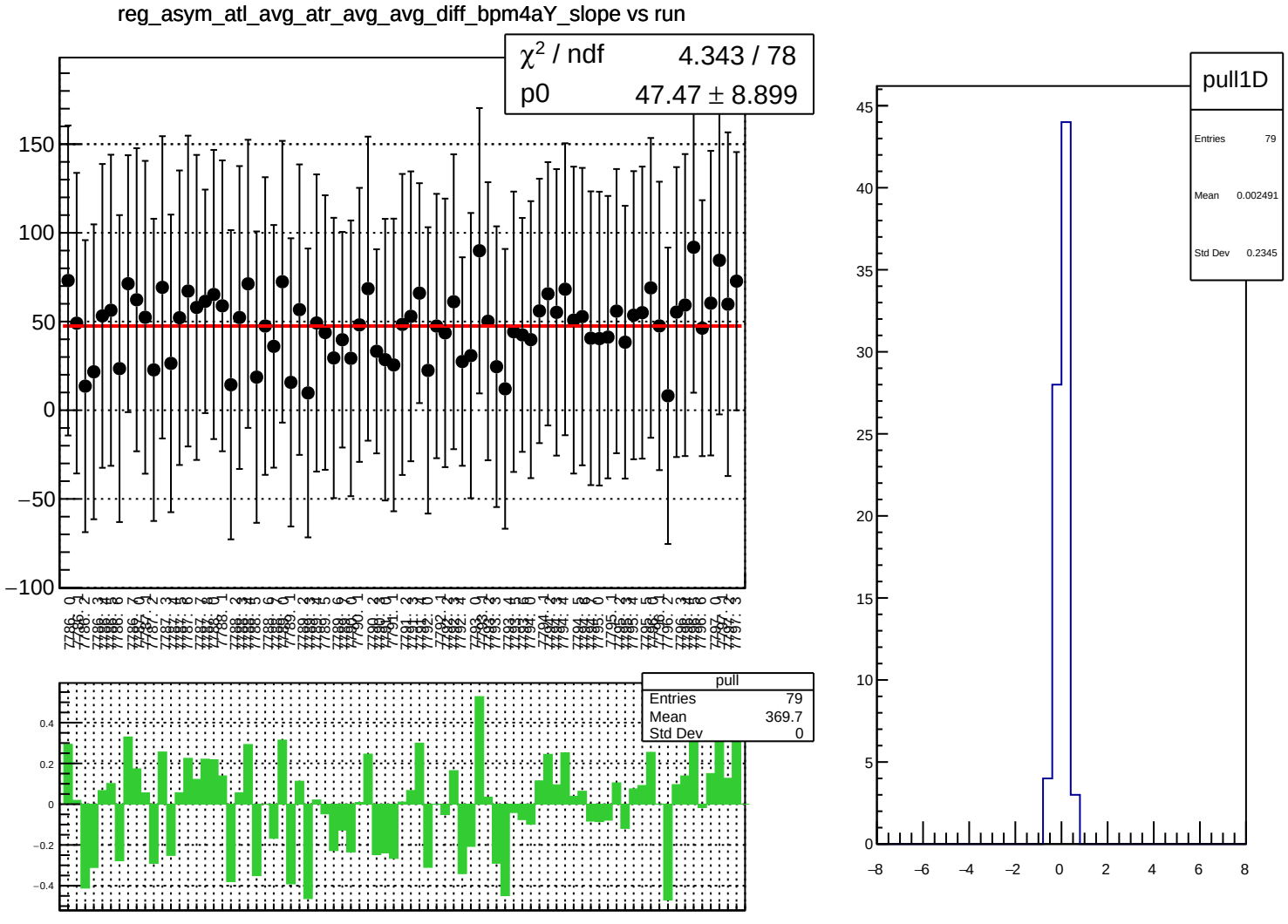

pull1D
Entries 79
Mean −0.01138
Std Dev 0.5733

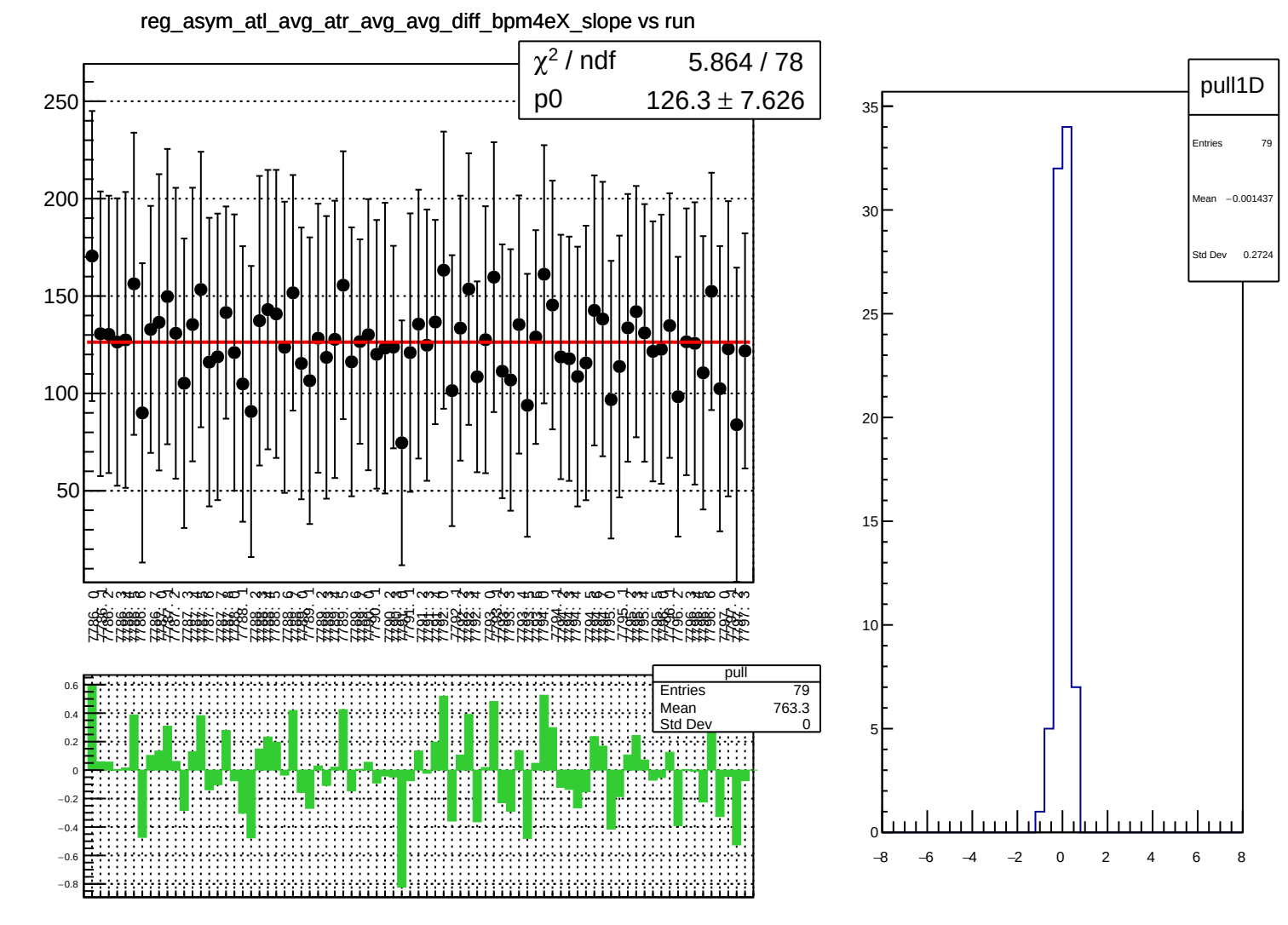

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.39 / 78
p0 −10.69 ± 3.566
pull
Entries 79
Mean −883.2
Std Dev 0
pull1D
Entries 79
Mean 0.0007869
Std Dev 0.5557

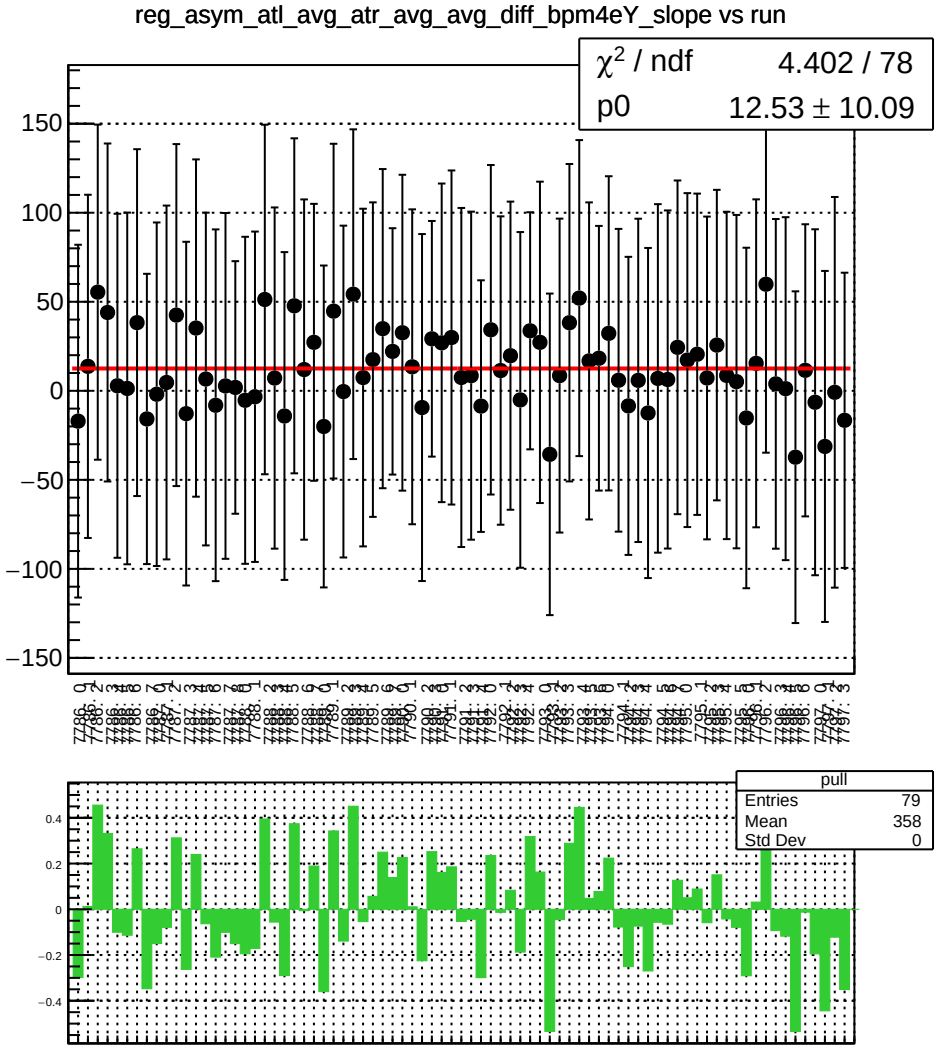

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 30.17 / 78
p0 2.998 ± 0.1108
pull
Entries 79
Mean 784.3
Std Dev 0
pull1D
Entries 79
Mean 0.005989
Std Dev 0.618

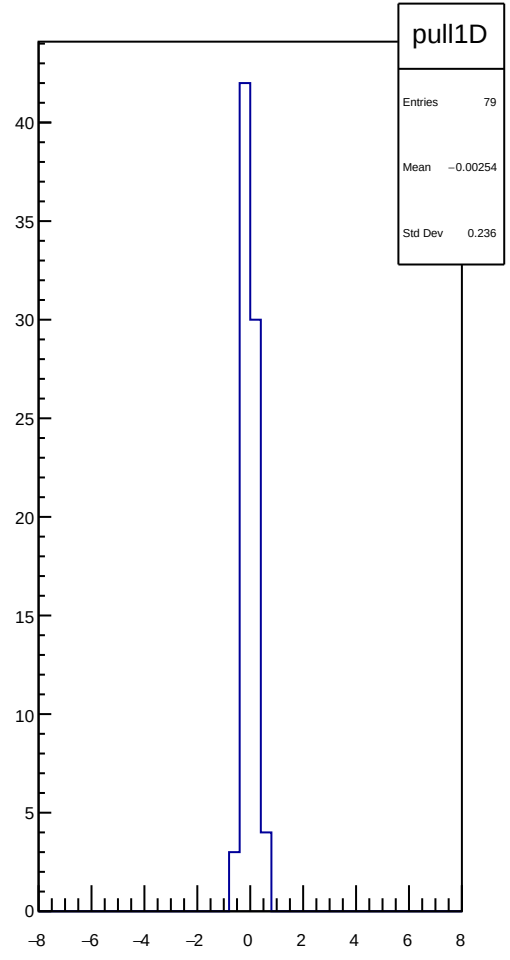

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 5.859 / 78
p0 −133 ± 8.768
pull
Entries 79
Mean 477.3
Std Dev 0

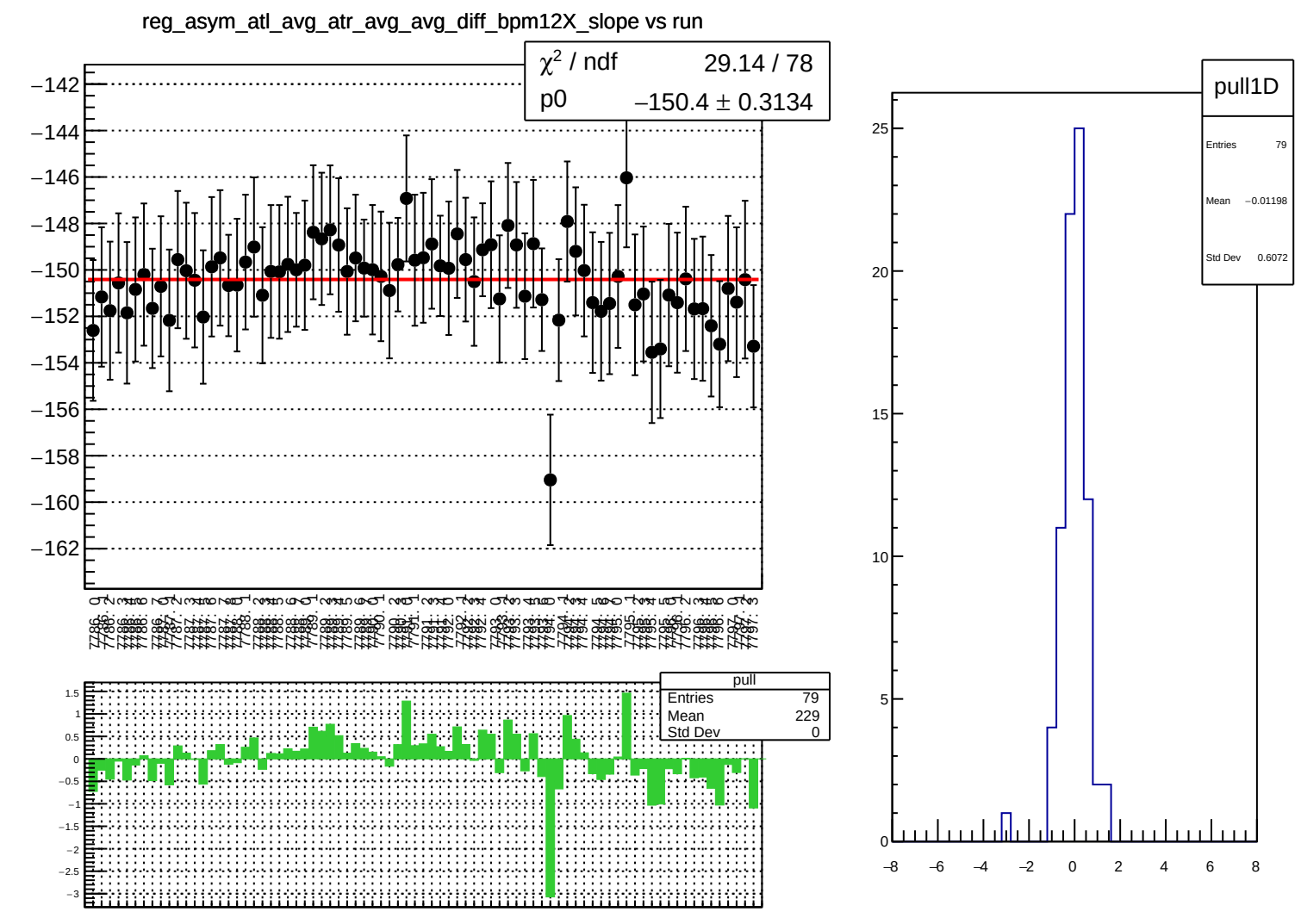

pull1D
Entries 79
Mean 0.00185
Std Dev 0.2723

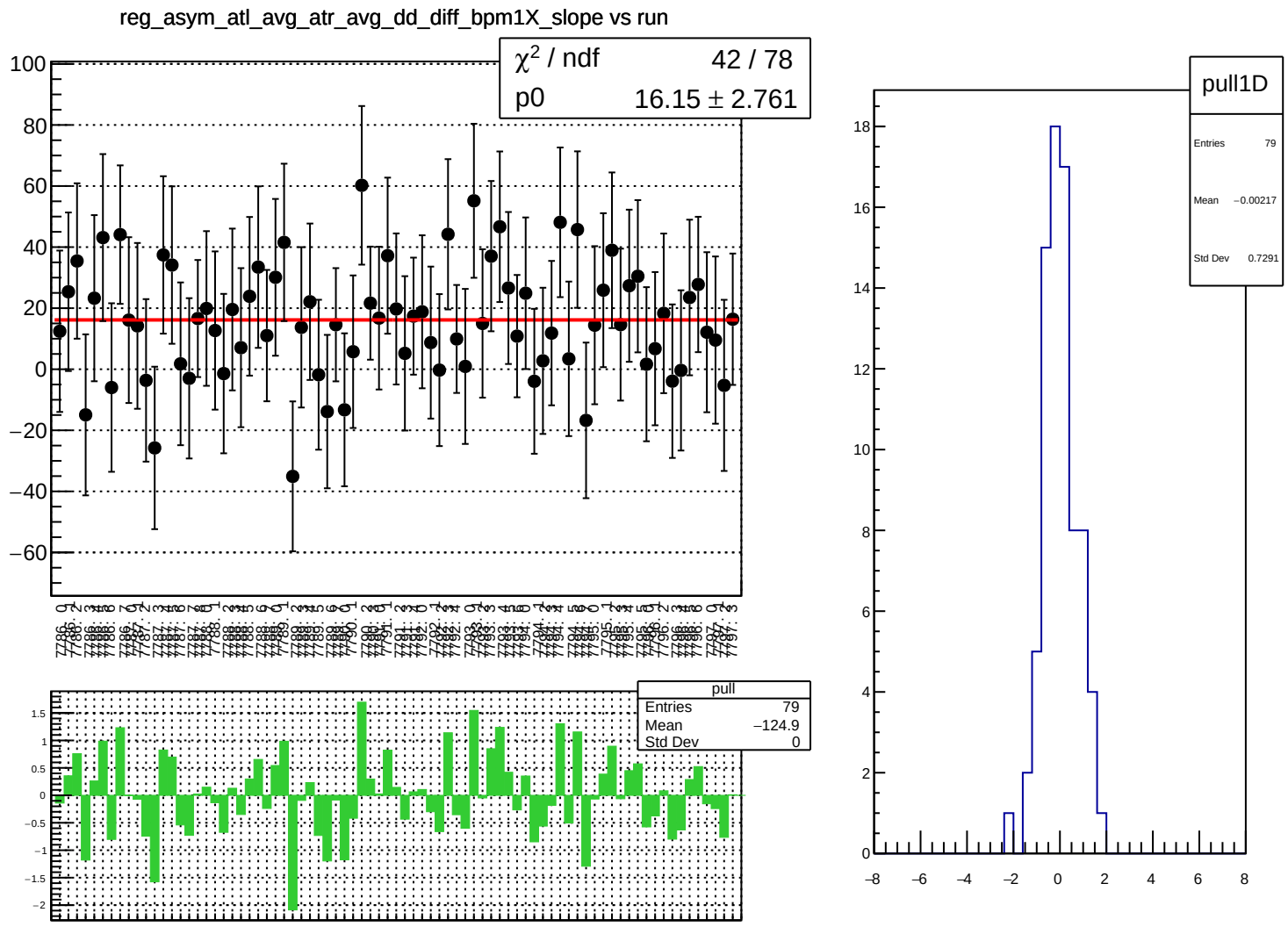

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.343 / 78
p0 47.47 ± 8.899
150
100
50
0
−50
−100
pull
Entries 79
Mean 369.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 79
Mean 0.002491
Std Dev 0.2345
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

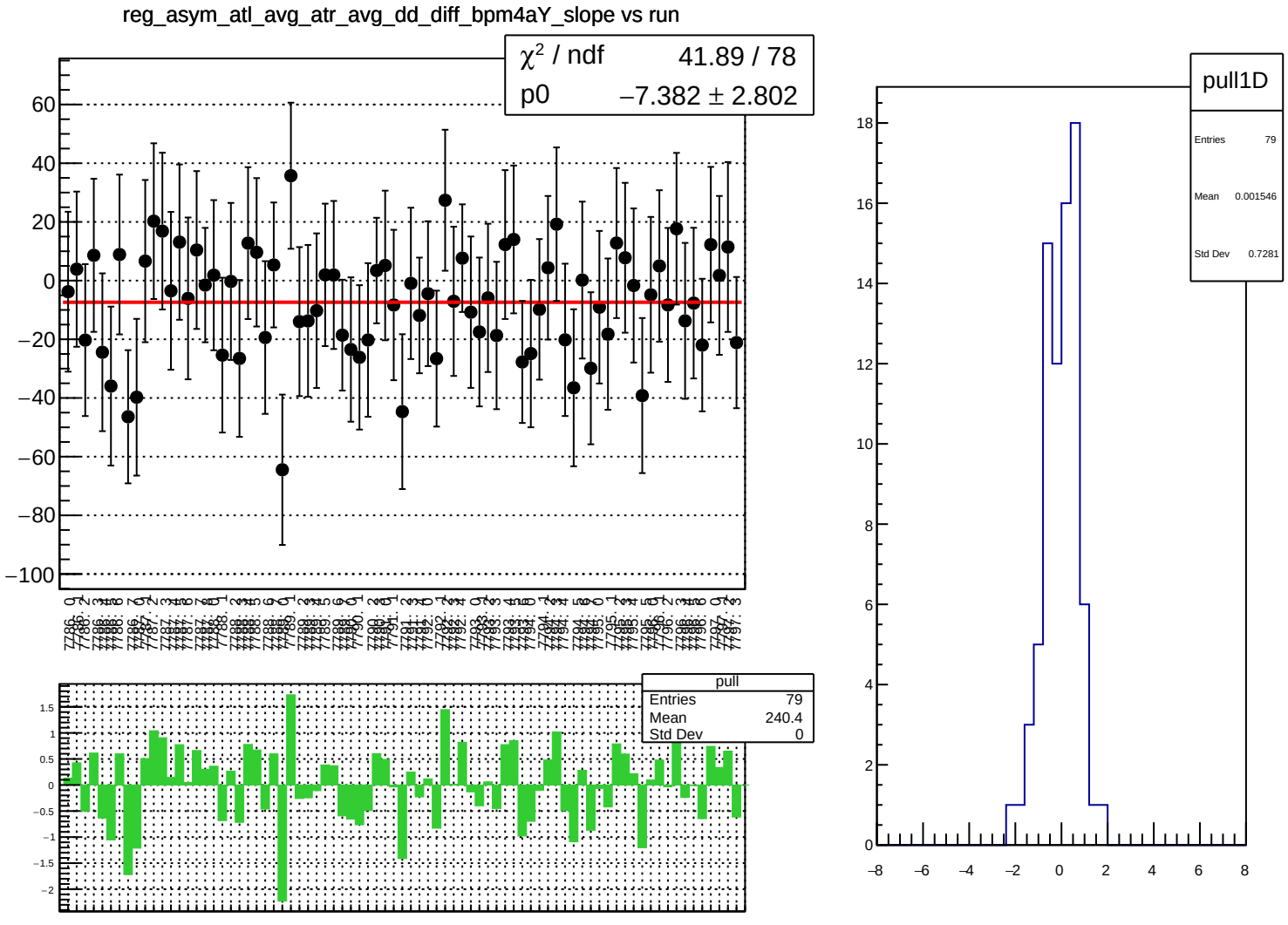

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.864 / 78
p0 126.3 ± 7.626
250
200
150
100
50
pull
Entries 79
Mean 763.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 79
Mean −0.001437
Std Dev 0.2724
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

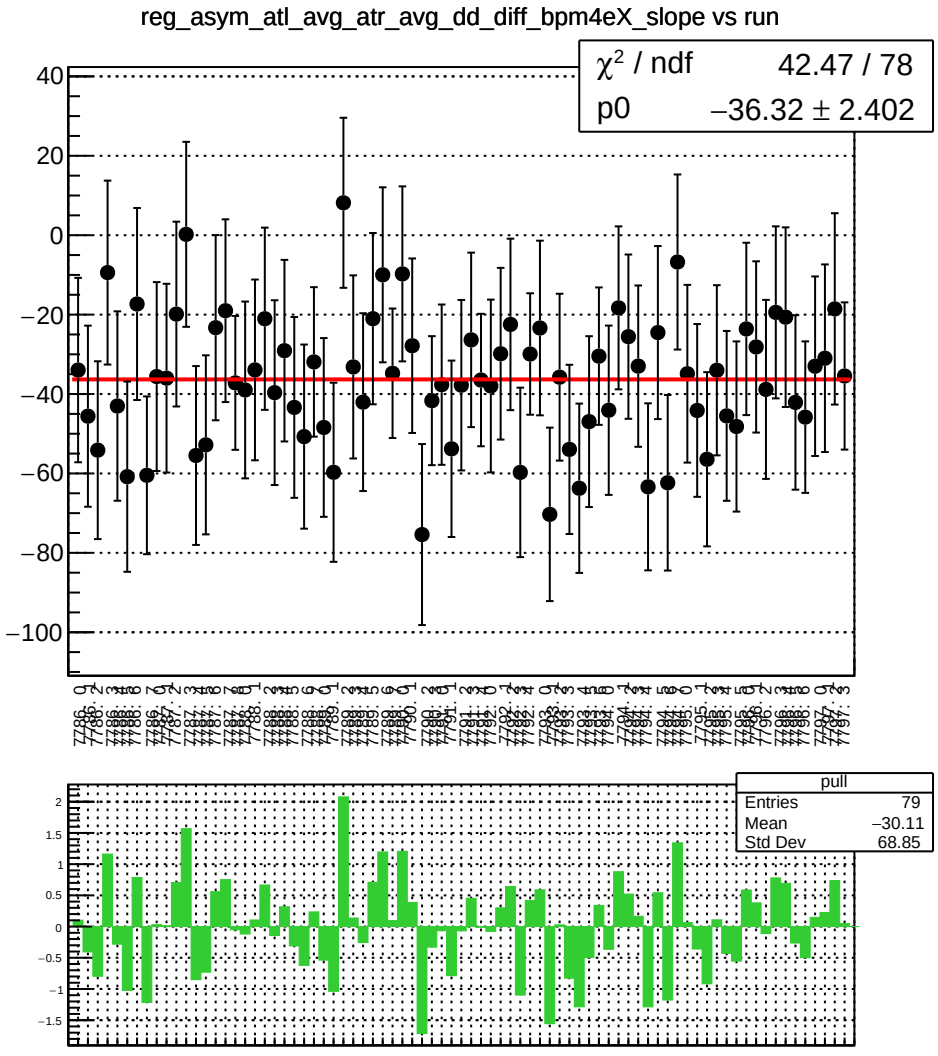

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.402 / 78
p0 12.53 ± 10.09
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean 358
Std Dev 0
0.4
0.2
0
−0.2
−0.4

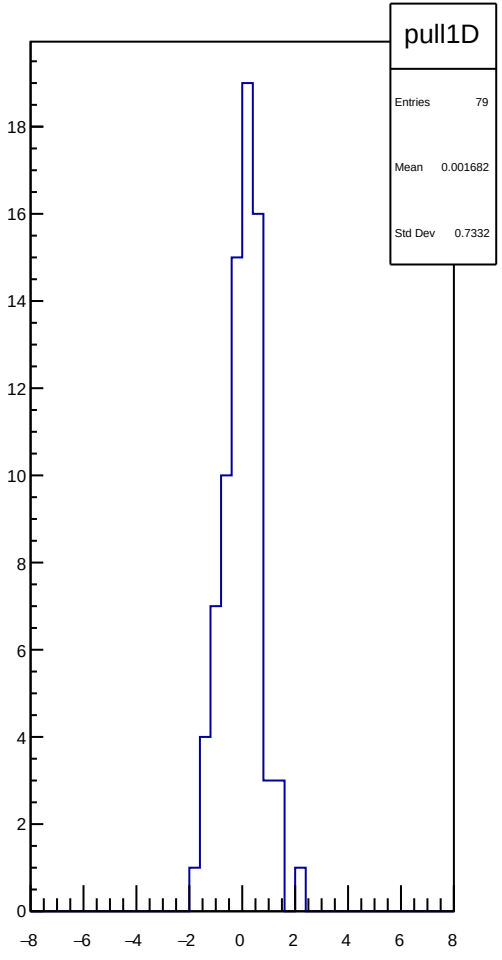

pull1D
Entries 79
Mean −0.00254
Std Dev 0.236
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

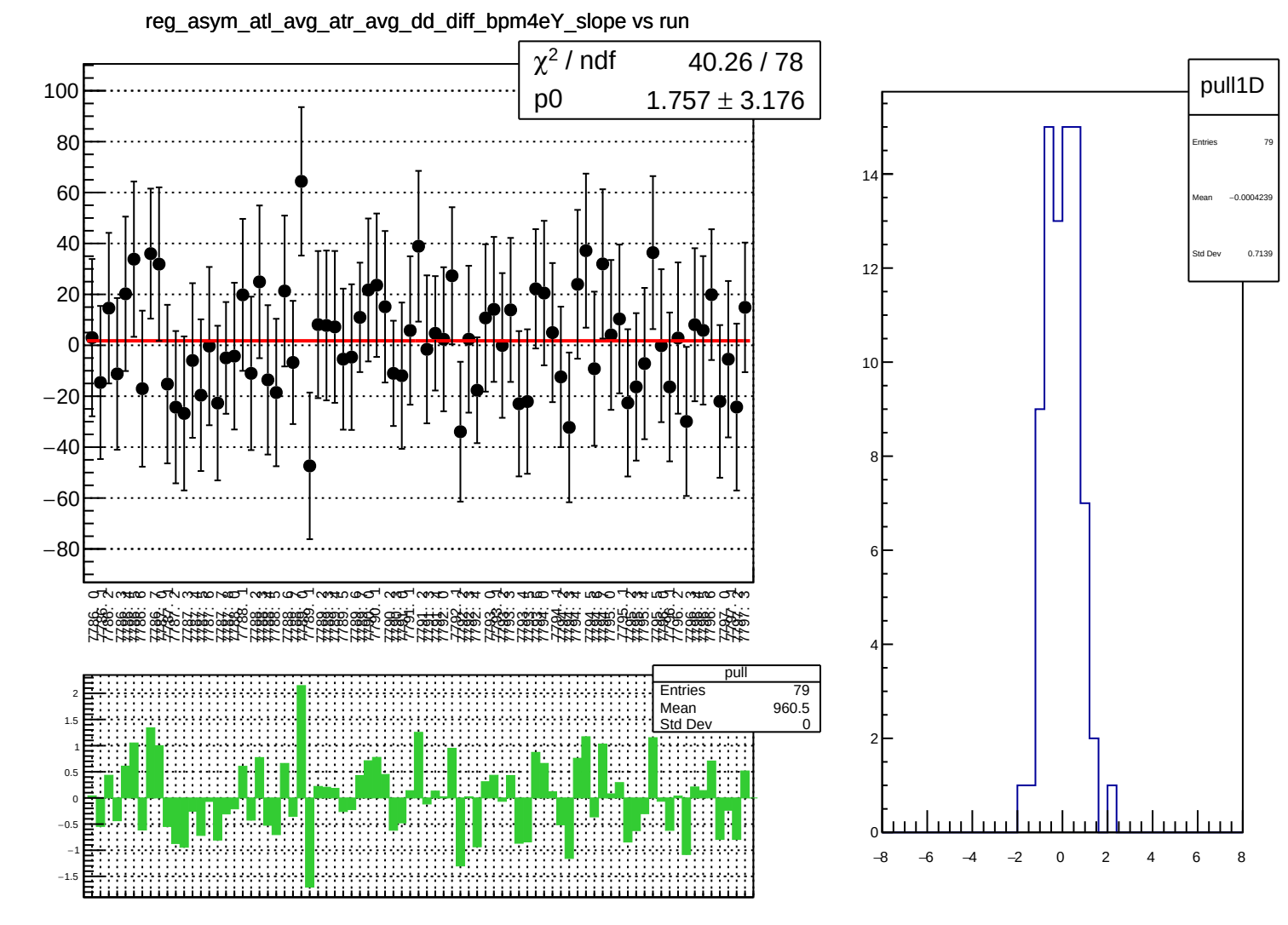

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 29.14 / 78
p0 −150.4 ± 0.3134
pull
Entries 79
Mean 229
Std Dev 0
pull1D
Entries 79
Mean −0.01198
Std Dev 0.6072

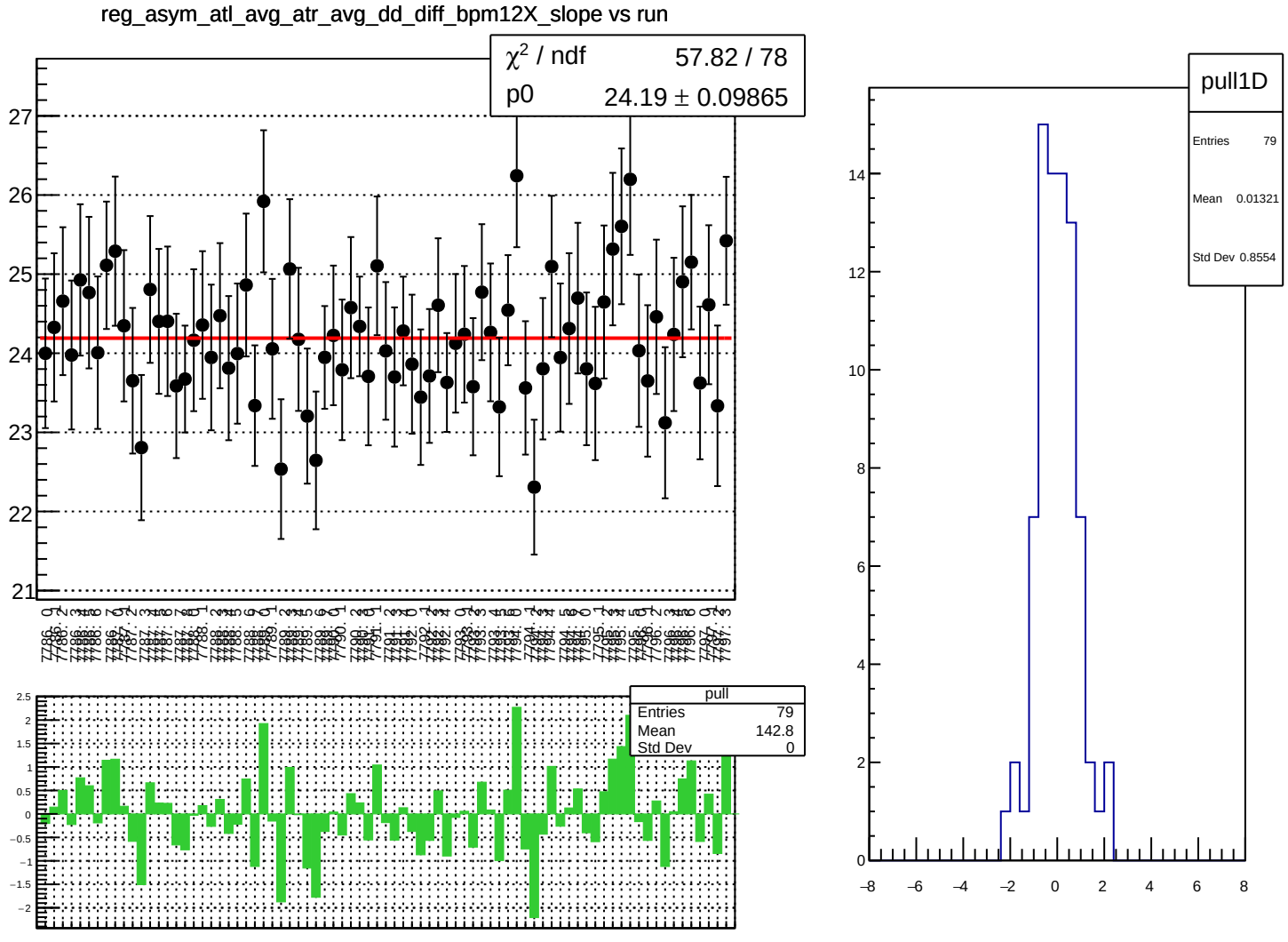

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 42 / 78
p0 16.15 ± 2.761
pull
Entries 79
Mean −124.9
Std Dev 0
pull1D
Entries 79
Mean −0.00217
Std Dev 0.7291

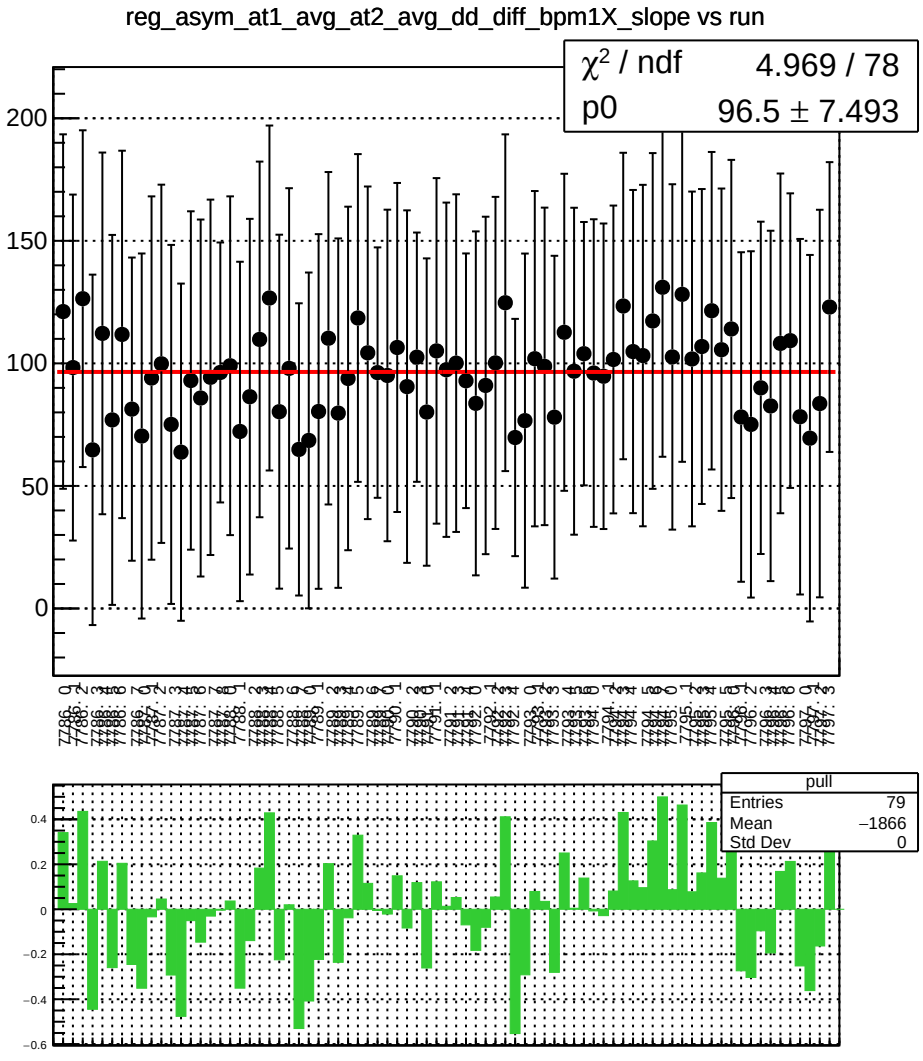

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.89 / 78
p0 −7.382 ± 2.802
pull
Entries 79
Mean 240.4
Std Dev 0
pull1D
Entries 79
Mean 0.001546
Std Dev 0.7281

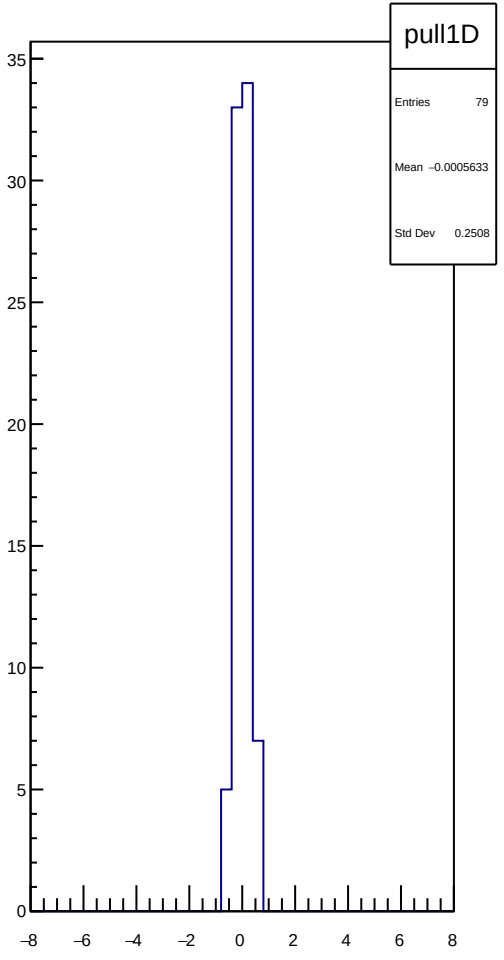

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.47 / 78
p0 −36.32 ± 2.402
pull
Entries 79
Mean −30.11
Std Dev 68.85

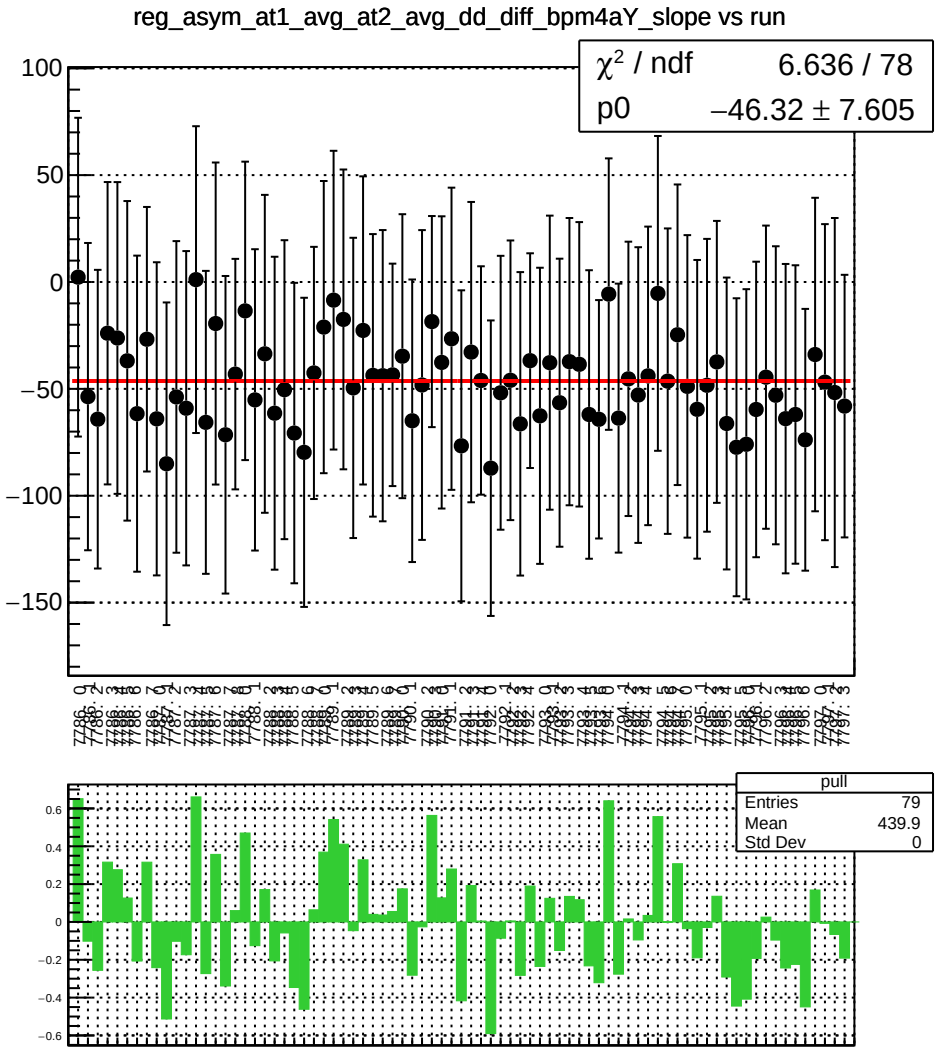

pull1D
Entries 79
Mean 0.001682
Std Dev 0.7332

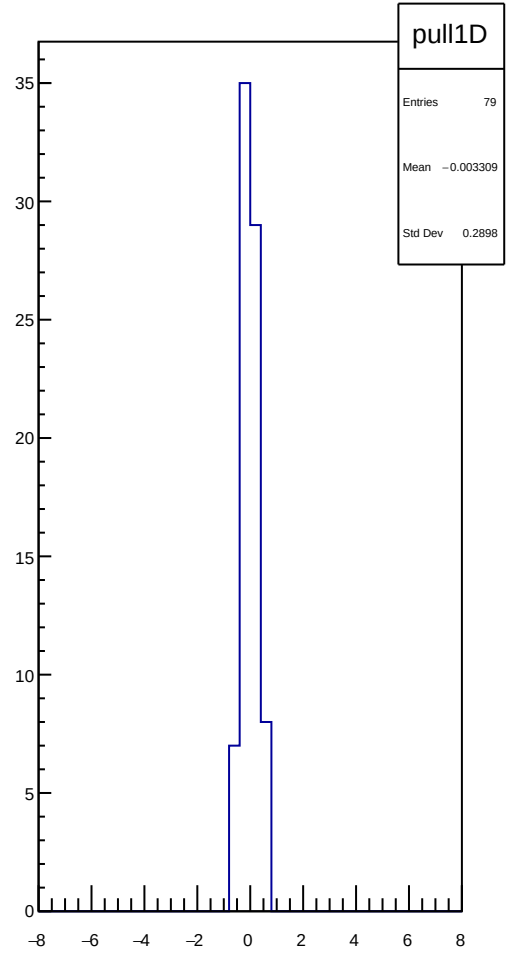

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.26 / 78
p0 1.757 ± 3.176
pull
Entries 79
Mean 960.5
Std Dev 0
pull1D
Entries 79
Mean −0.0004239
Std Dev 0.7139

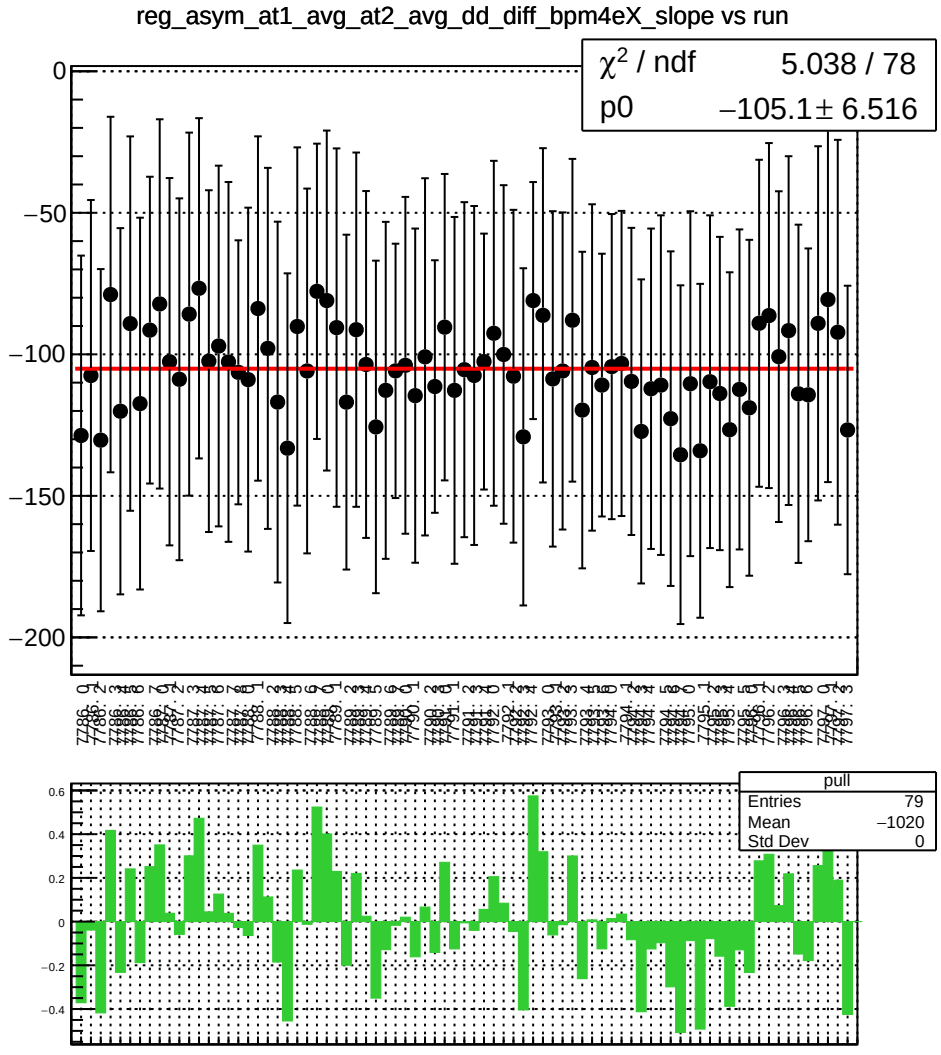

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 57.82 / 78
p0 24.19 ± 0.09865
pull
Entries 79
Mean 142.8
Std Dev 0
pull1D
Entries 79
Mean 0.01321
Std Dev 0.8554

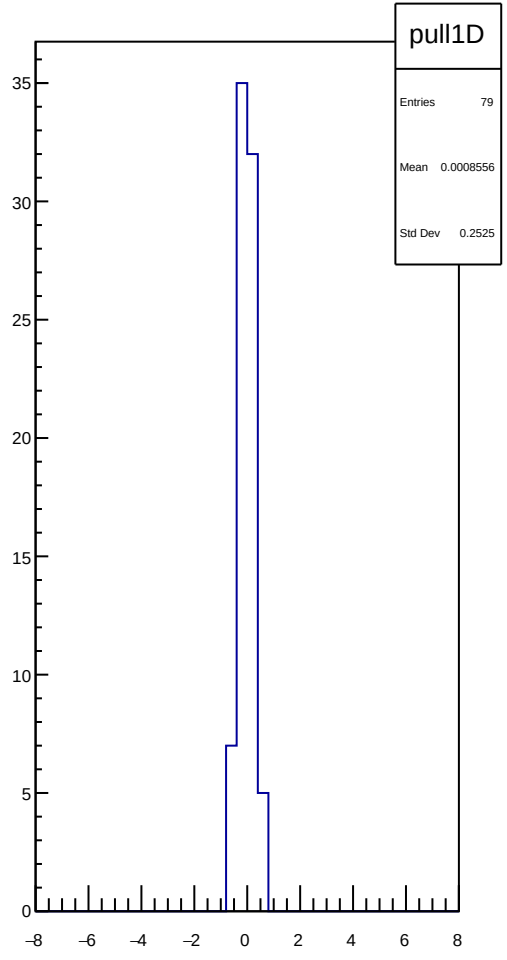

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 4.969 / 78
p0 96.5 ± 7.493
200
150
100
50
0
pull
Entries 79
Mean −1866
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

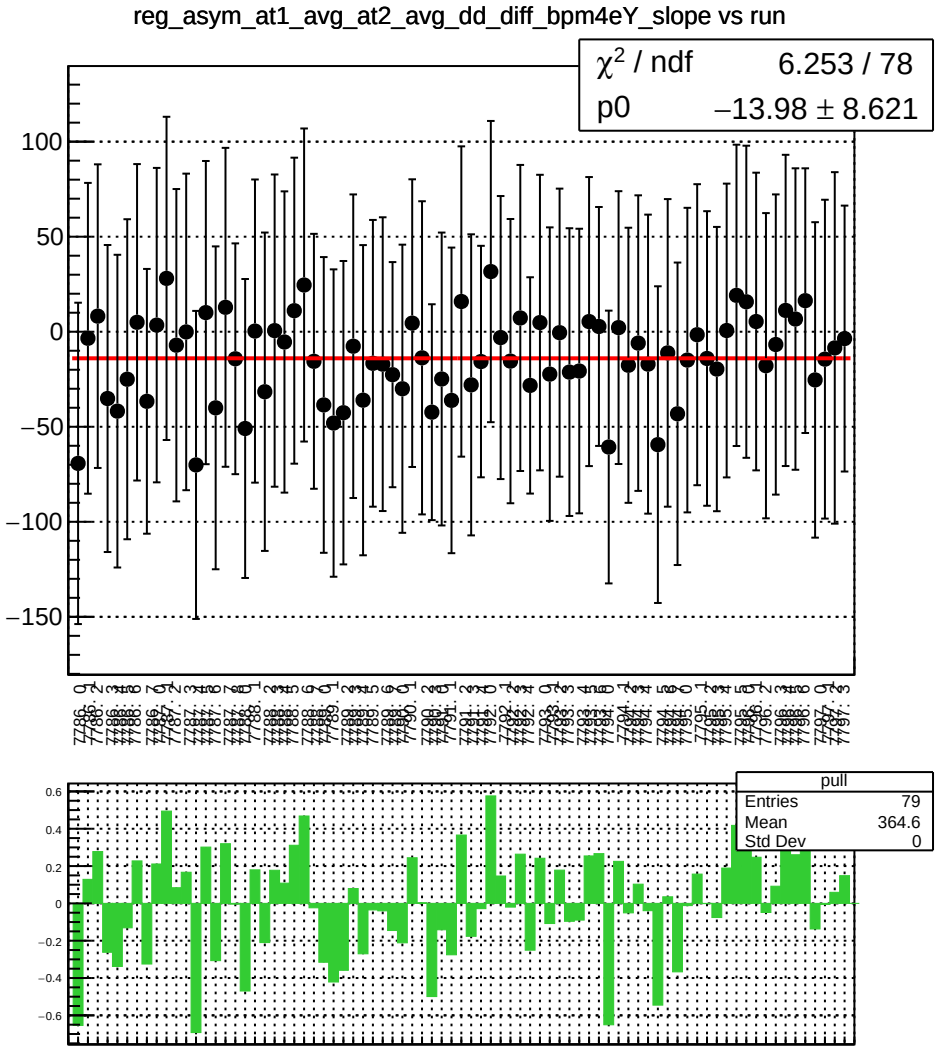

pull1D
Entries 79
Mean −0.0005633
Std Dev 0.2508
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

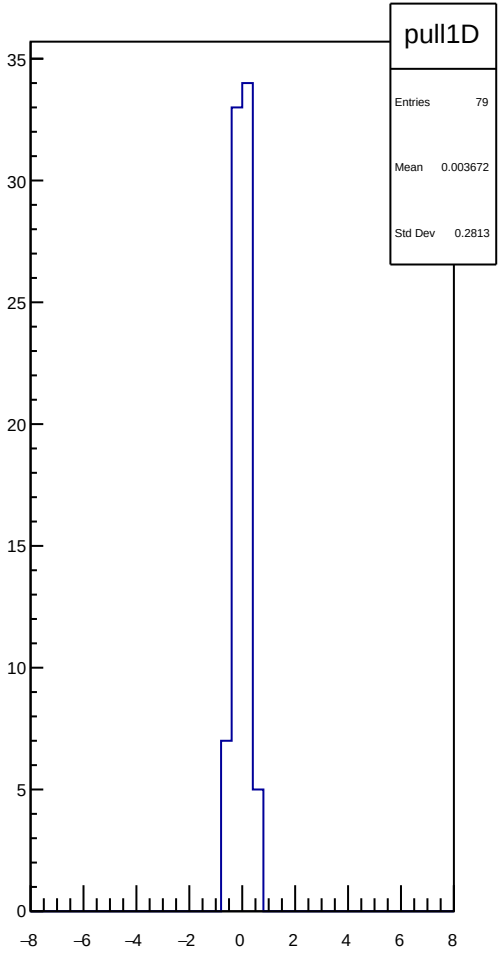

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.636 / 78
p0 −46.32 ± 7.605
pull
Entries 79
Mean 439.9
Std Dev 0

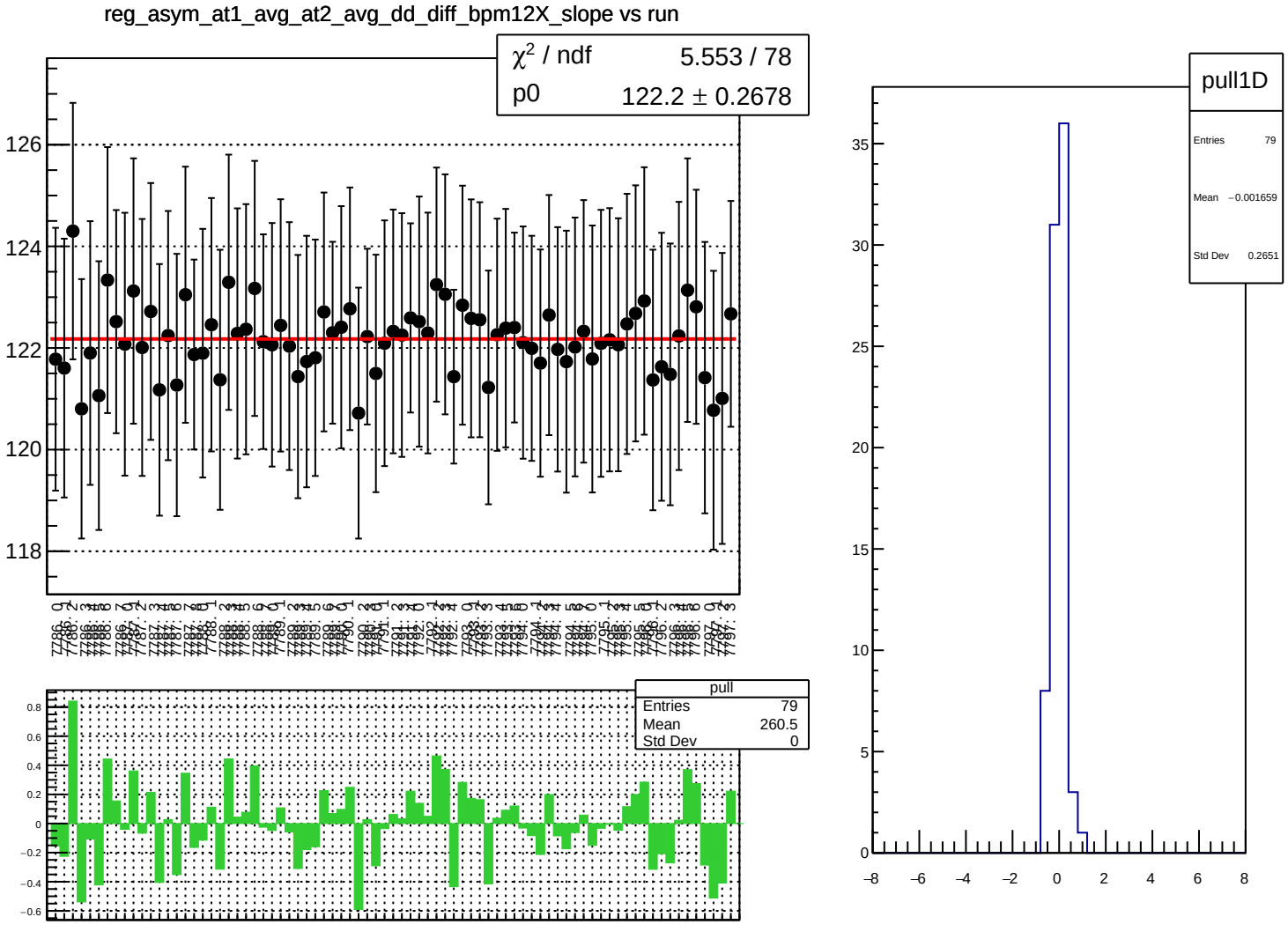

pull1D
Entries 79
Mean −0.003309
Std Dev 0.2898

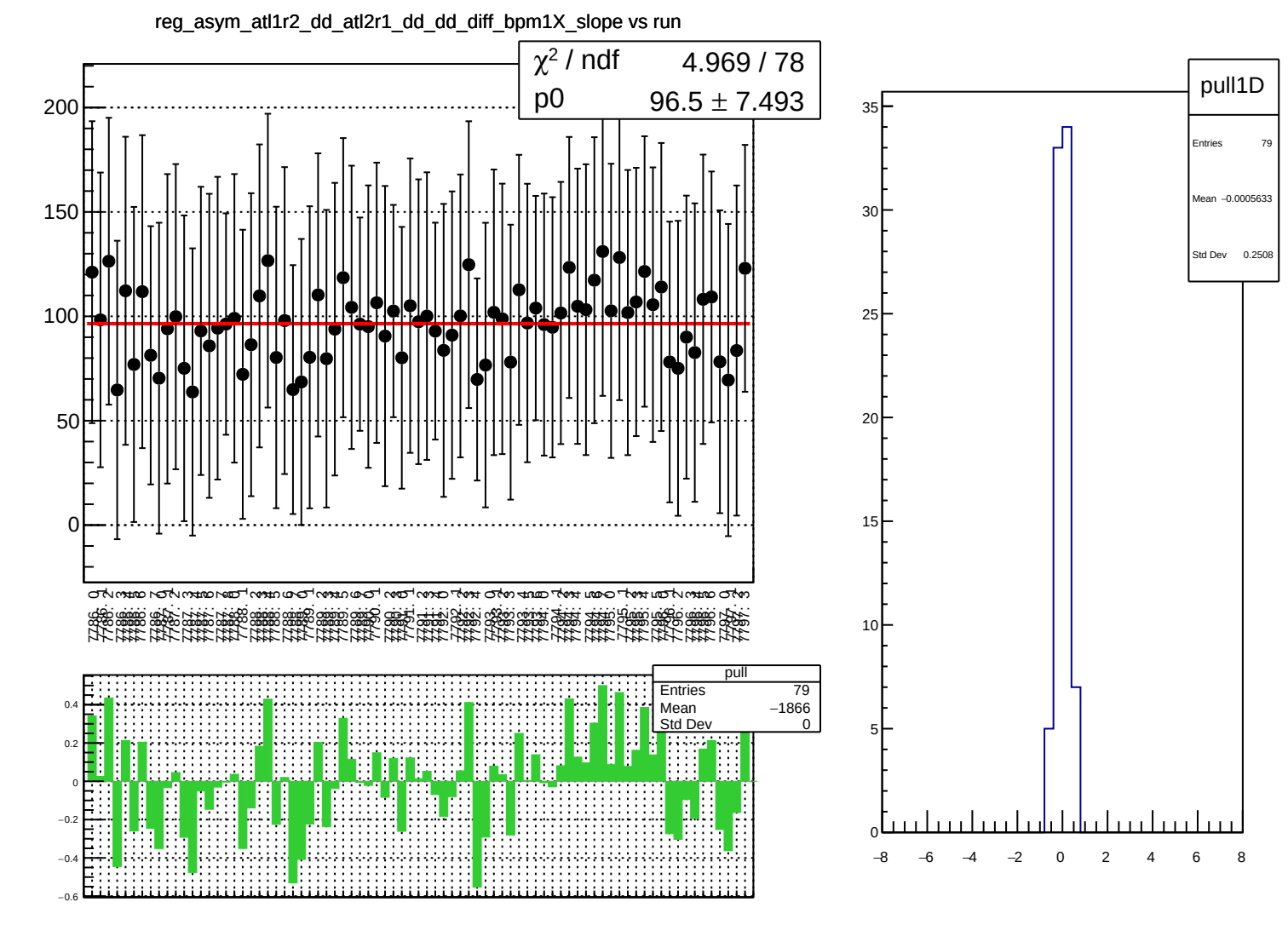

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.038 / 78
p0 −105.1± 6.516
pull
Entries 79
Mean −1020
Std Dev 0

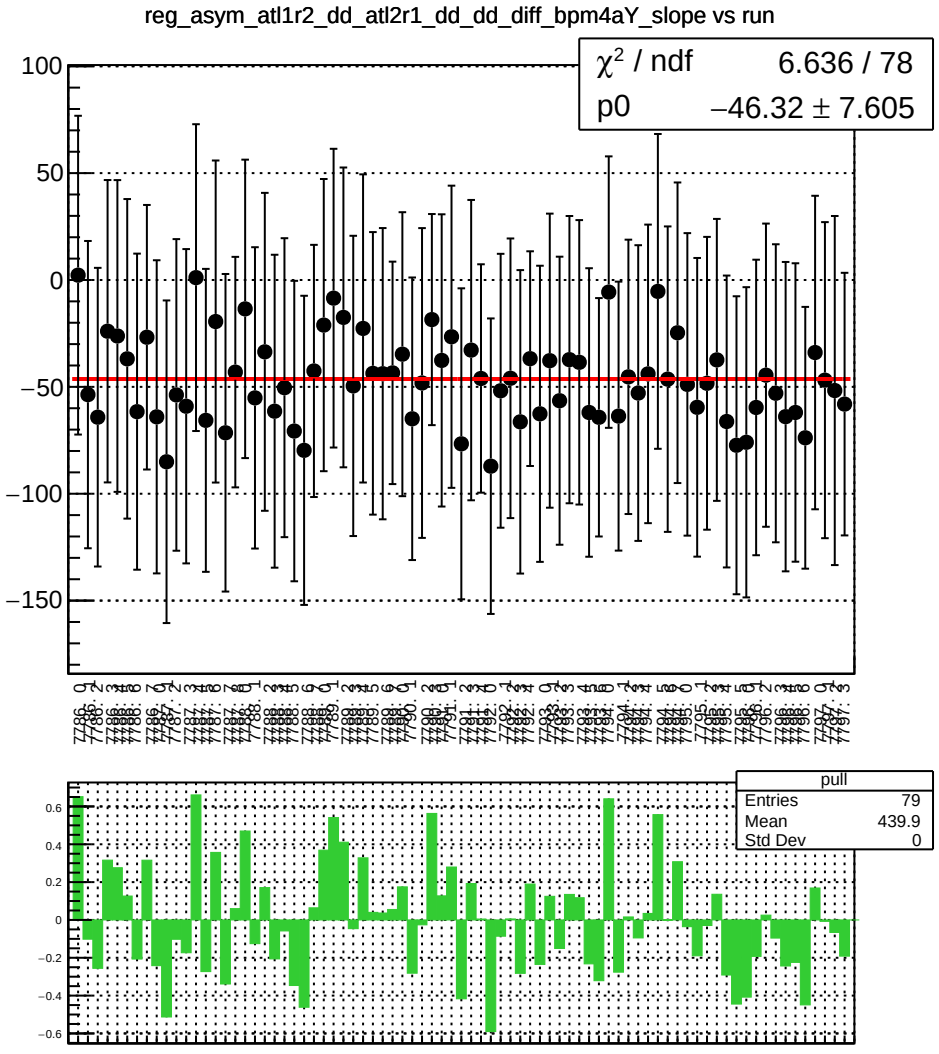

pull1D
Entries 79
Mean 0.0008556
Std Dev 0.2525

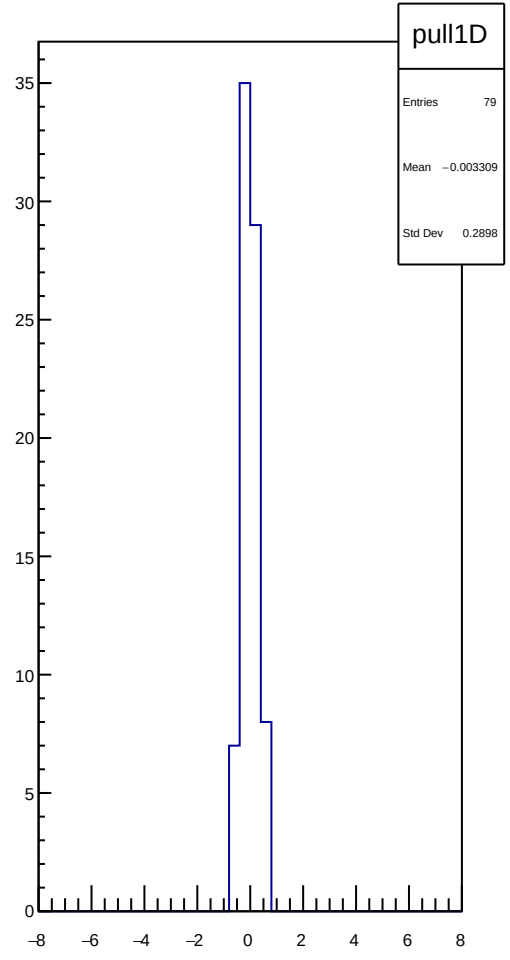

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.253 / 78
p0 −13.98 ± 8.621
pull
Entries 79
Mean 364.6
Std Dev 0

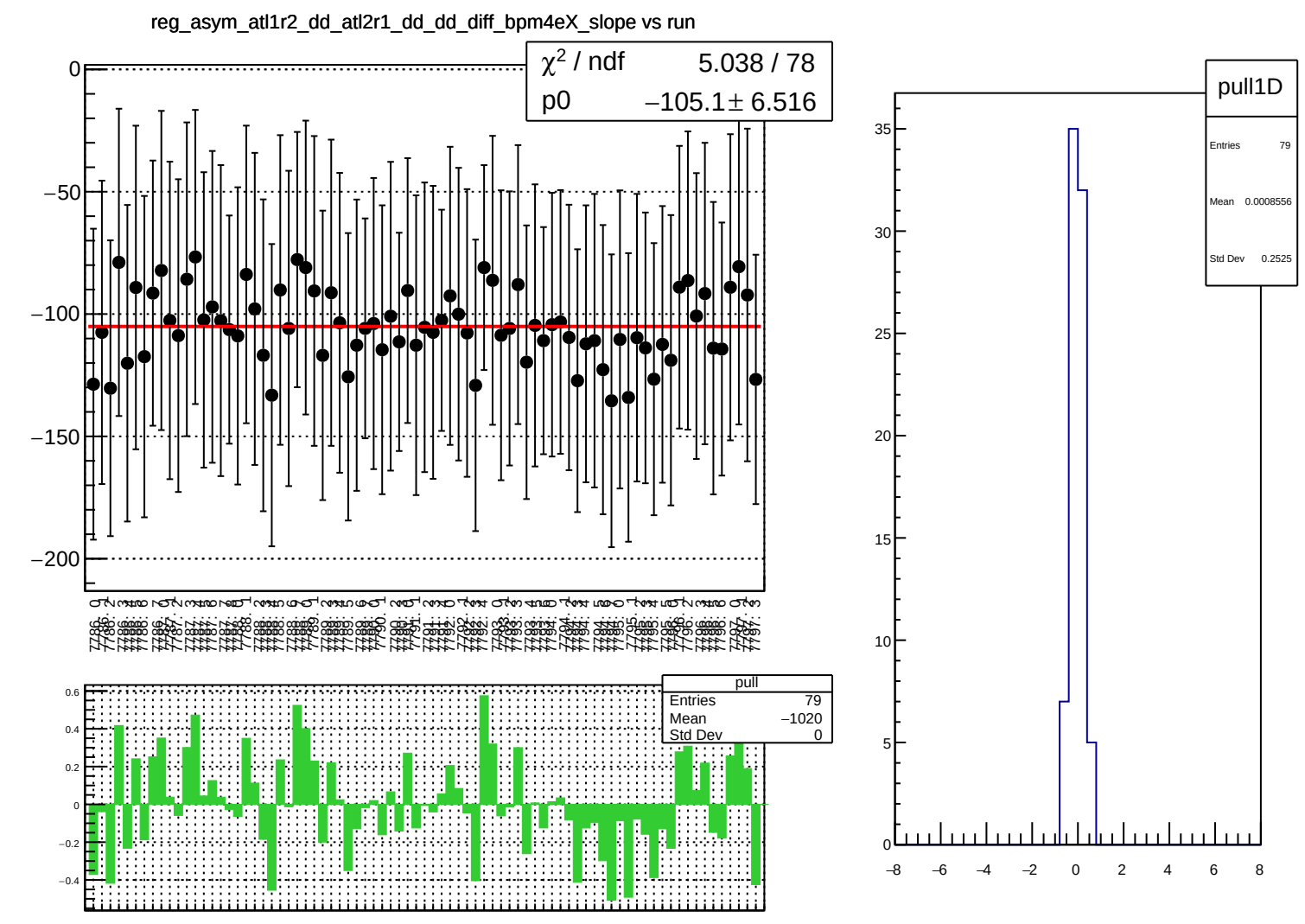

pull1D
Entries 79
Mean 0.003672
Std Dev 0.2813

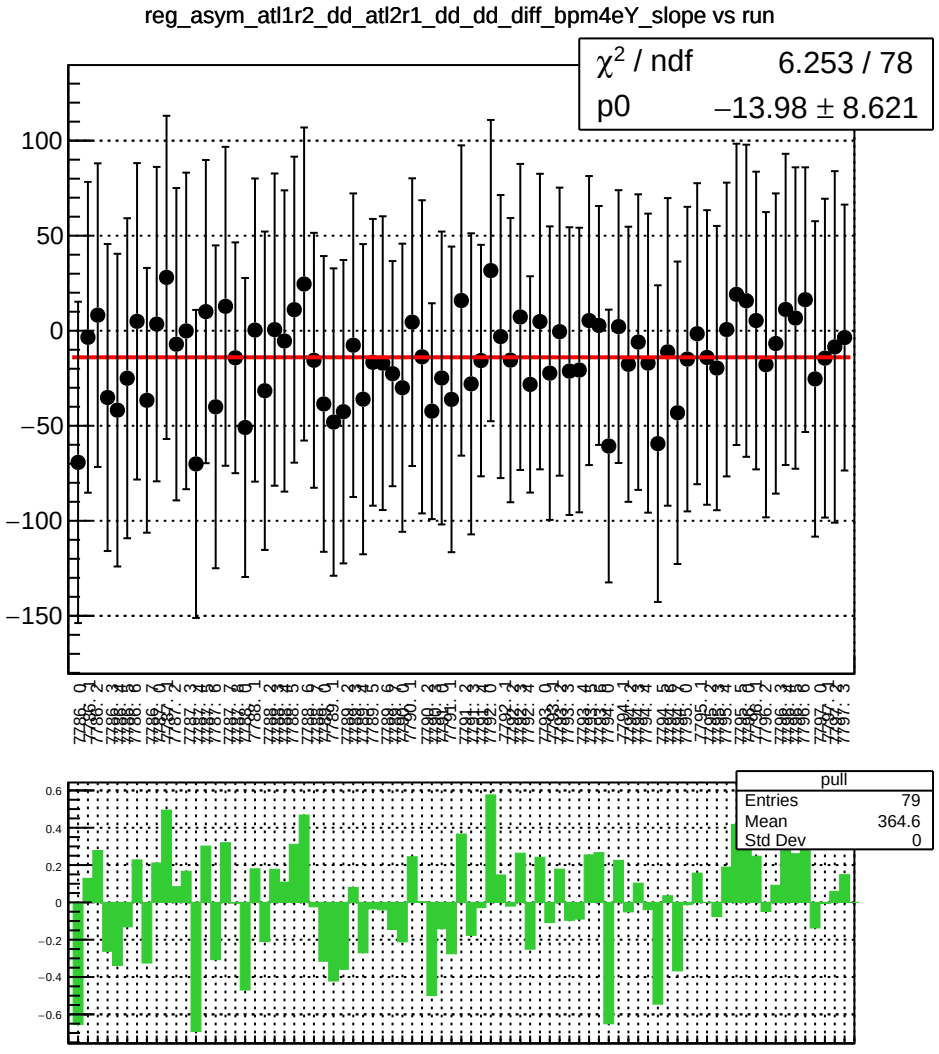

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 5.553 / 78
p0 122.2 ± 0.2678
126
124
122
120
118
pull
Entries 79
Mean 260.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 79
Mean −0.001659
Std Dev 0.2651
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

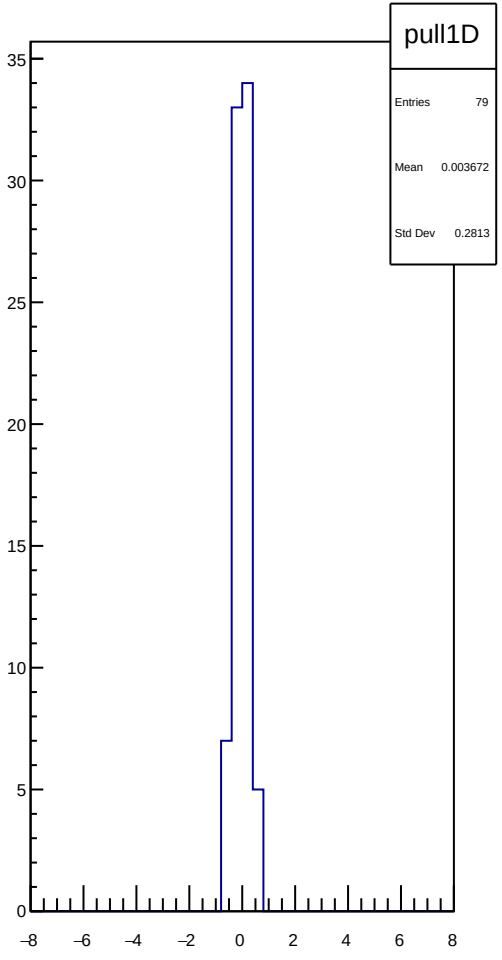

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 4.969 / 78
p0 96.5 ± 7.493
pull
Entries 79
Mean −1866
Std Dev 0
pull1D
Entries 79
Mean −0.0005633
Std Dev 0.2508

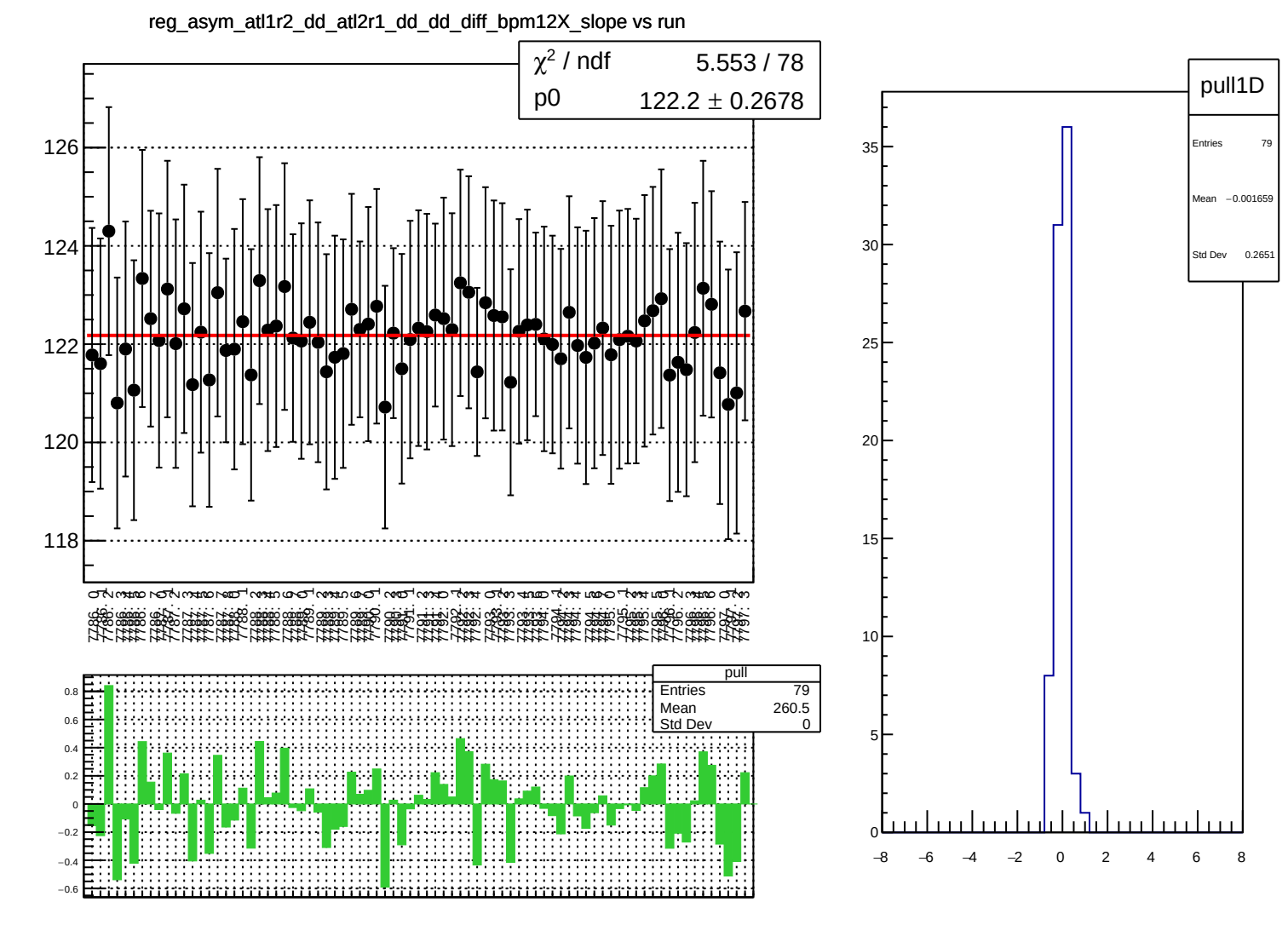

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.636 / 78
p0 −46.32 ± 7.605
pull
Entries 79
Mean 439.9
Std Dev 0

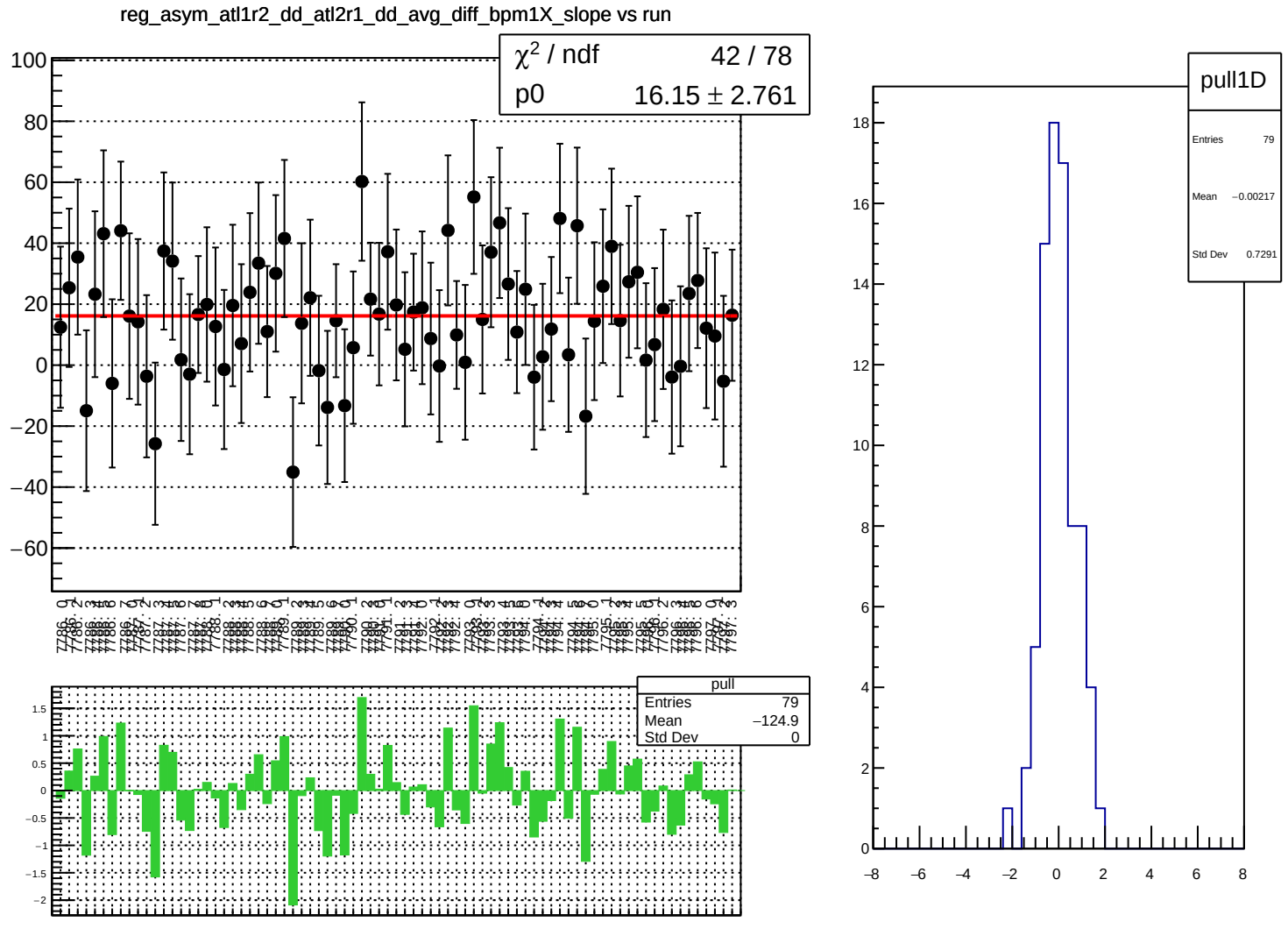

pull1D
Entries 79
Mean −0.003309
Std Dev 0.2898

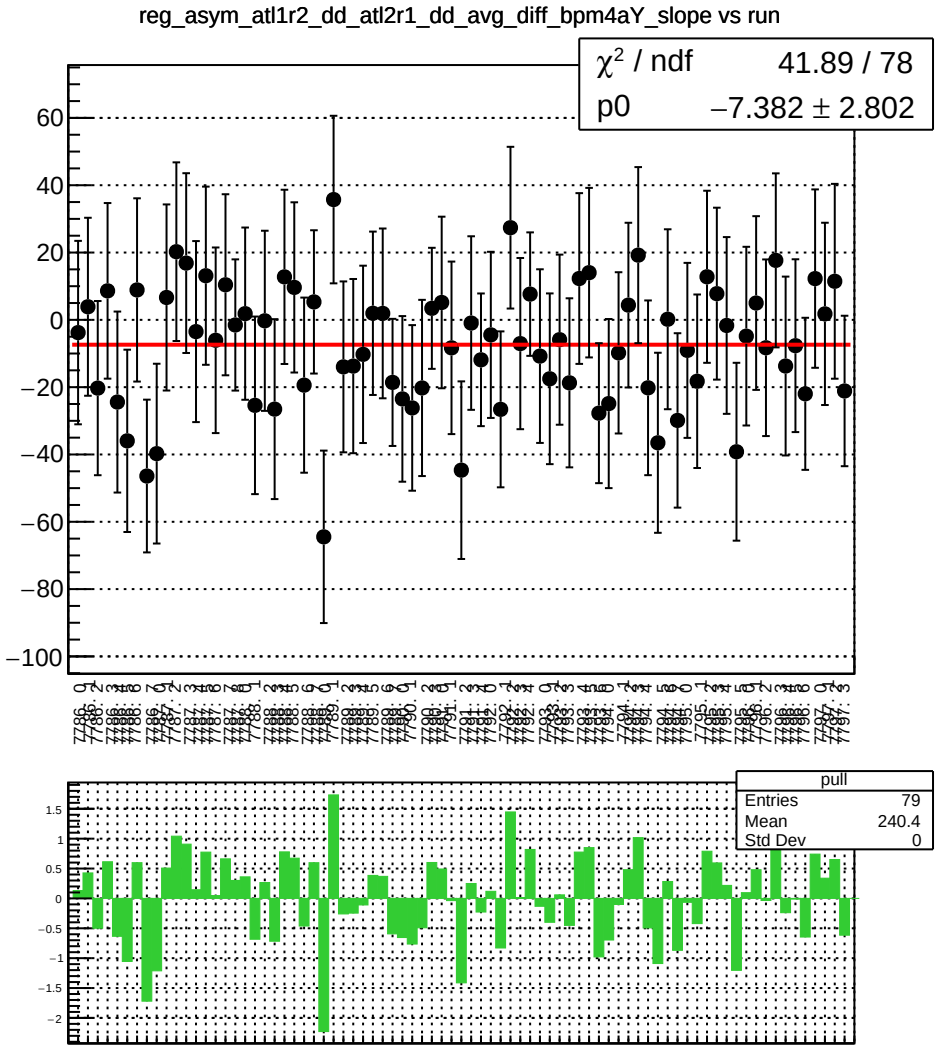

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.038 / 78
p0 −105.1± 6.516
pull
Entries 79
Mean −1020
Std Dev 0
pull1D
Entries 79
Mean 0.0008556
Std Dev 0.2525

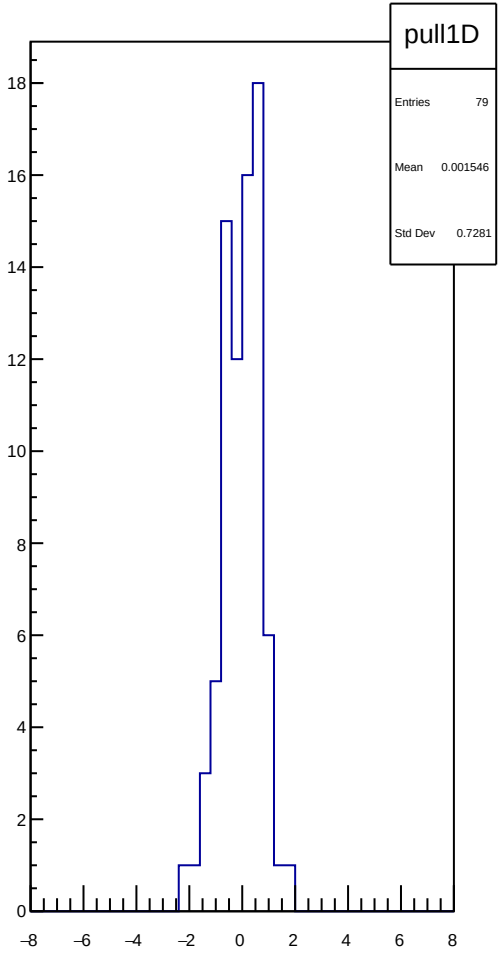

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.253 / 78
p0 −13.98 ± 8.621
pull
Entries 79
Mean 364.6
Std Dev 0

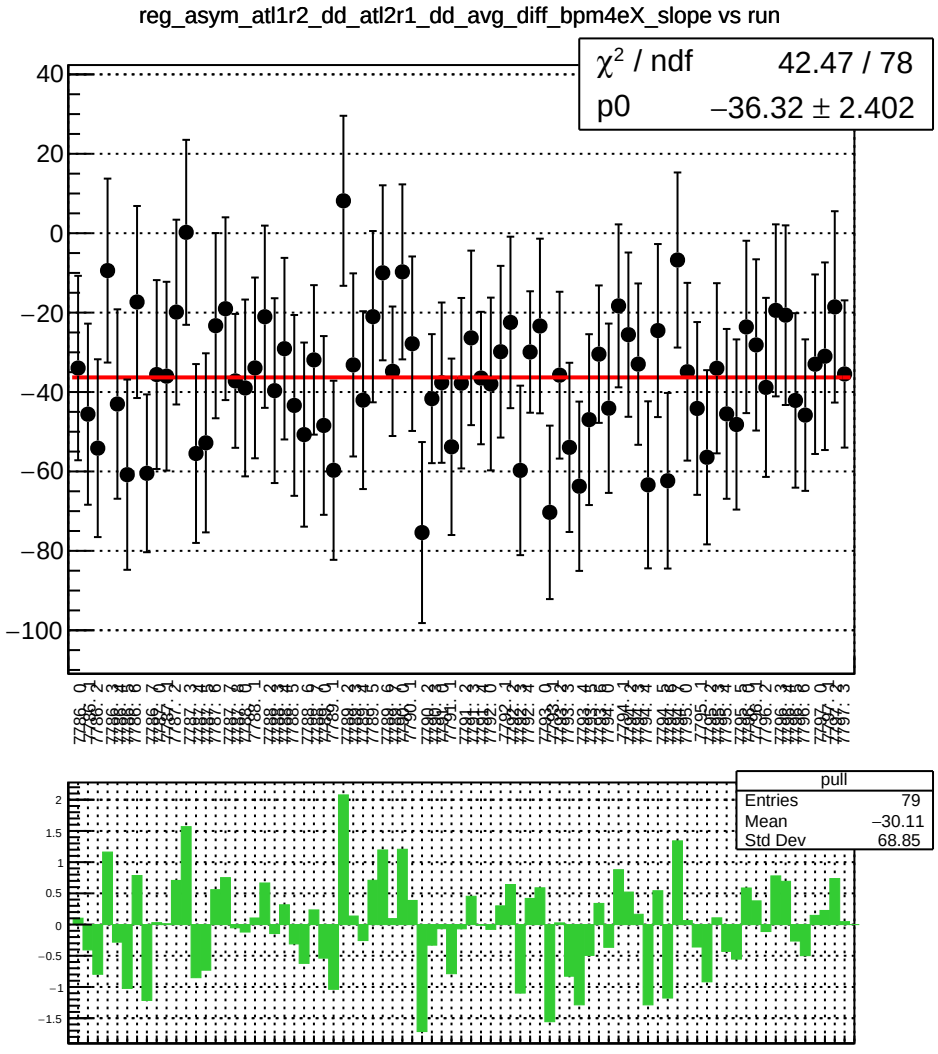

pull1D
Entries 79
Mean 0.003672
Std Dev 0.2813

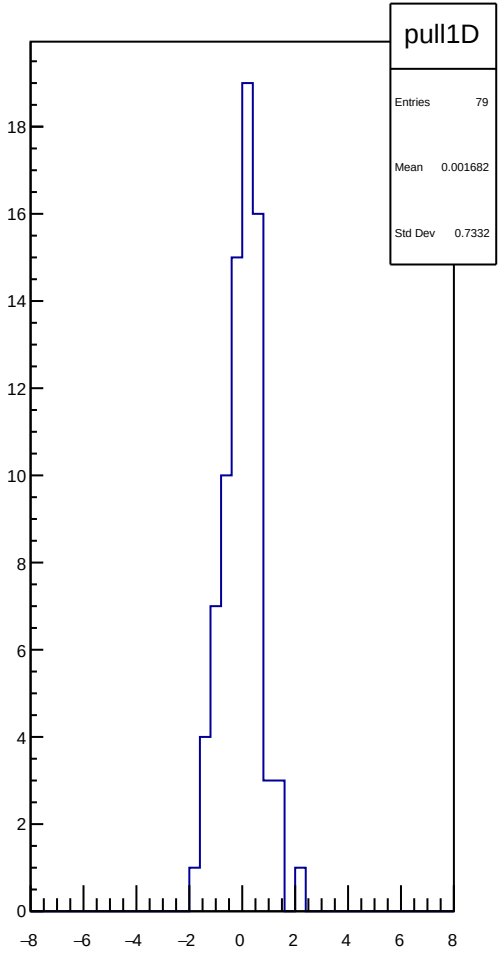

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 5.553 / 78
p0 122.2 ± 0.2678
126
124
122
120
118
pull
Entries 79
Mean 260.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 79
Mean −0.001659
Std Dev 0.2651
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

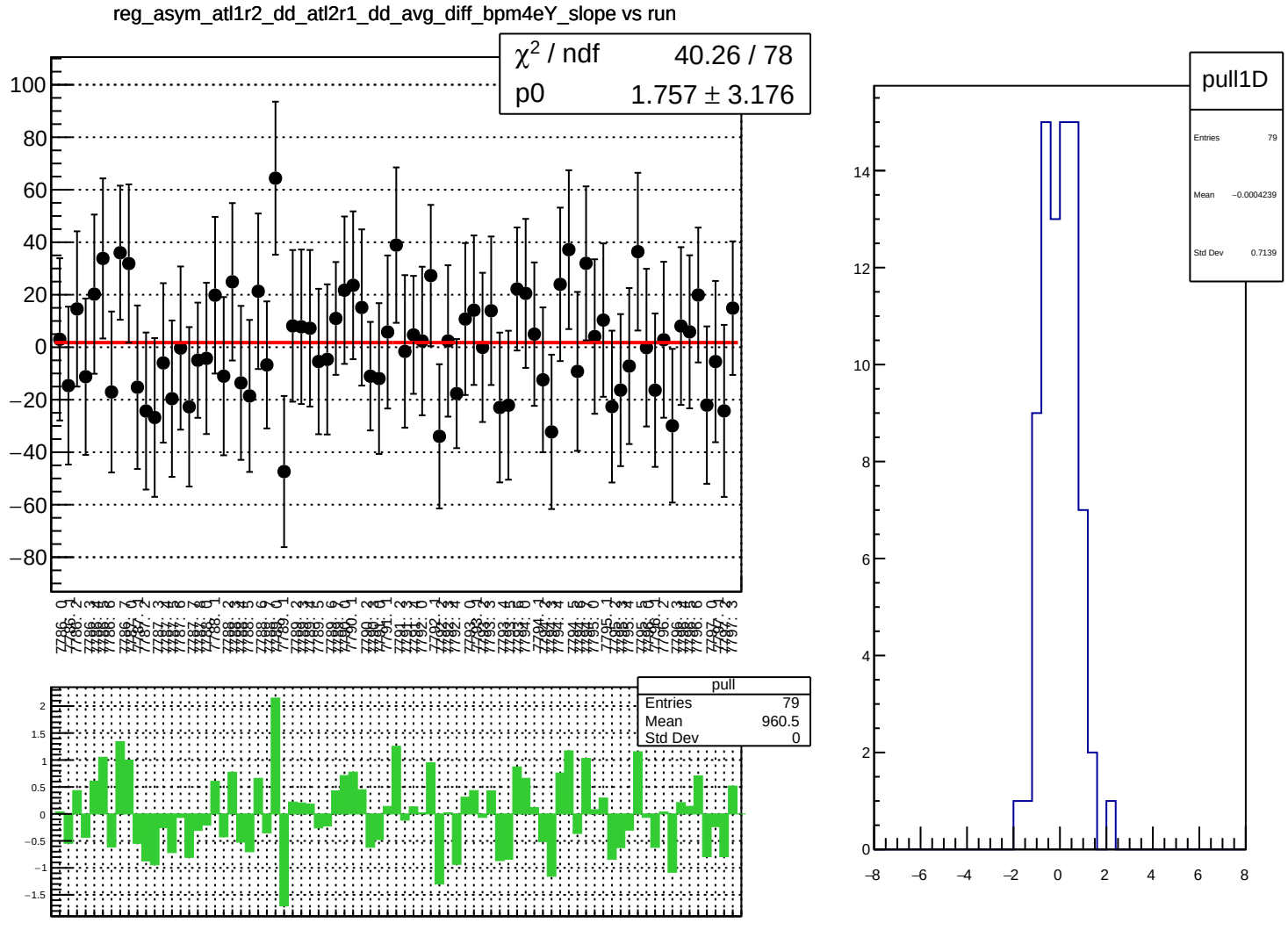

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 42 / 78
p0 16.15 ± 2.761
pull
Entries 79
Mean −124.9
Std Dev 0
pull1D
Entries 79
Mean −0.00217
Std Dev 0.7291

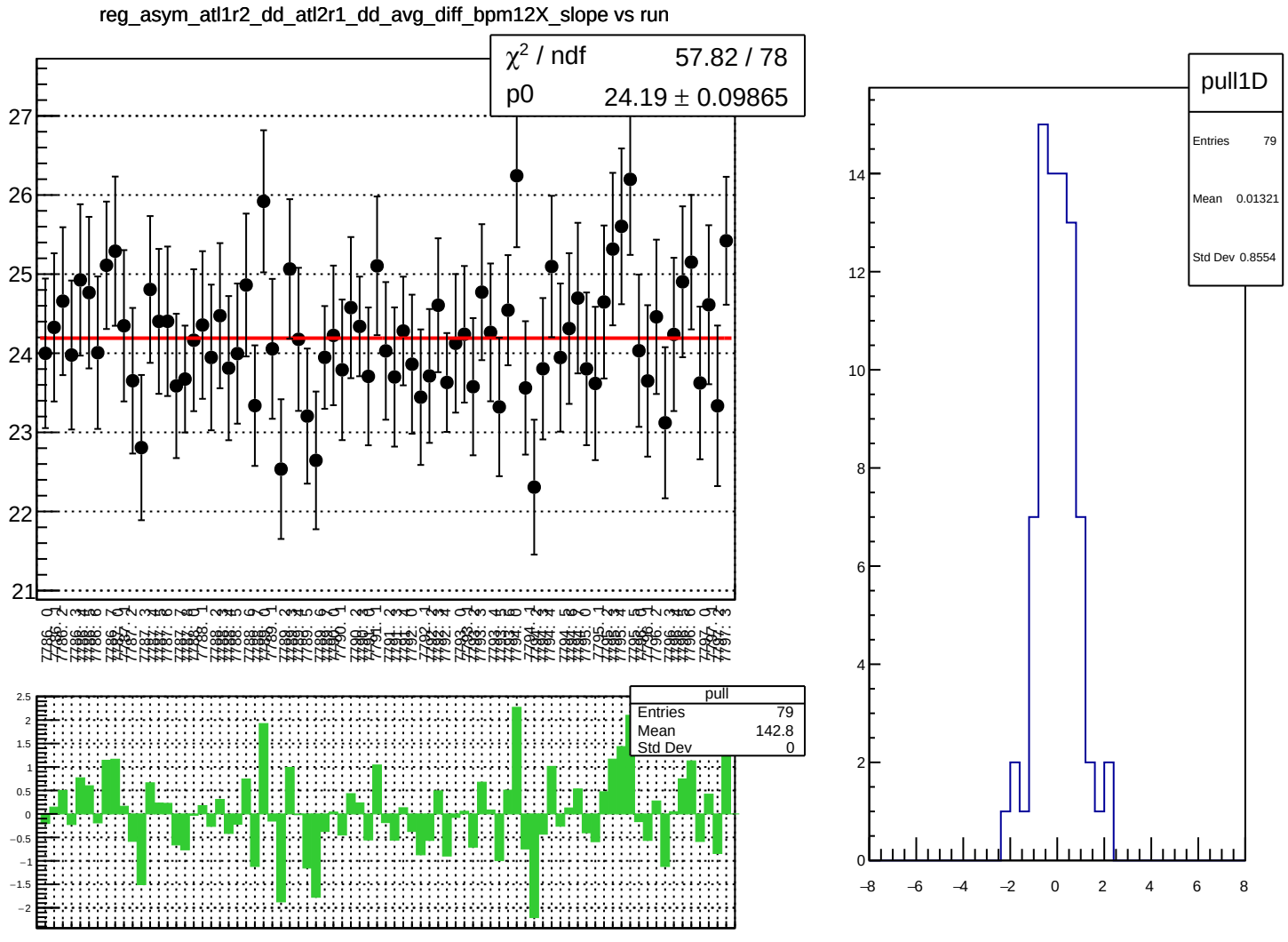

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.89 / 78
p0 −7.382 ± 2.802
pull
Entries 79
Mean 240.4
Std Dev 0

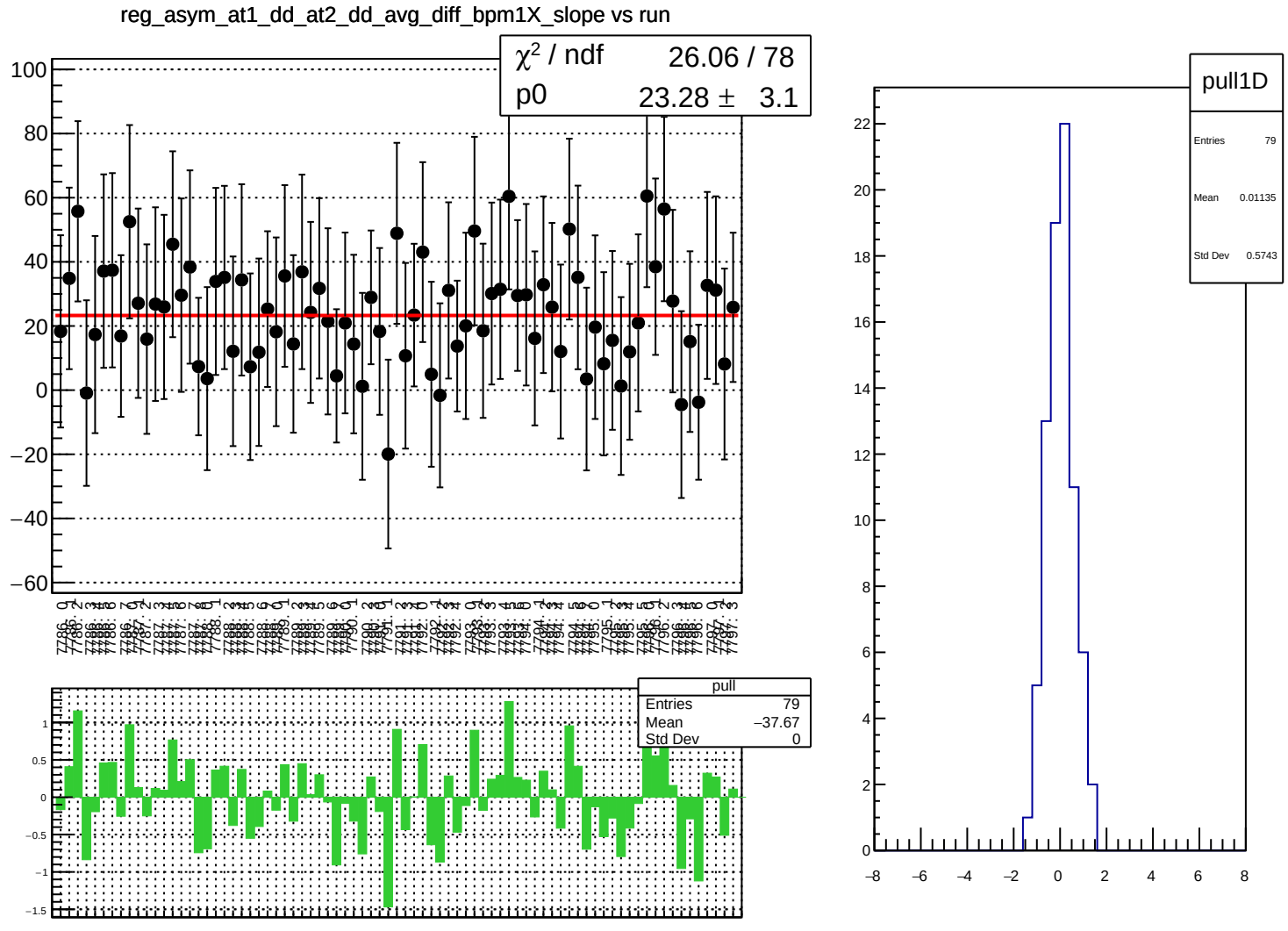

pull1D
Entries 79
Mean 0.001546
Std Dev 0.7281

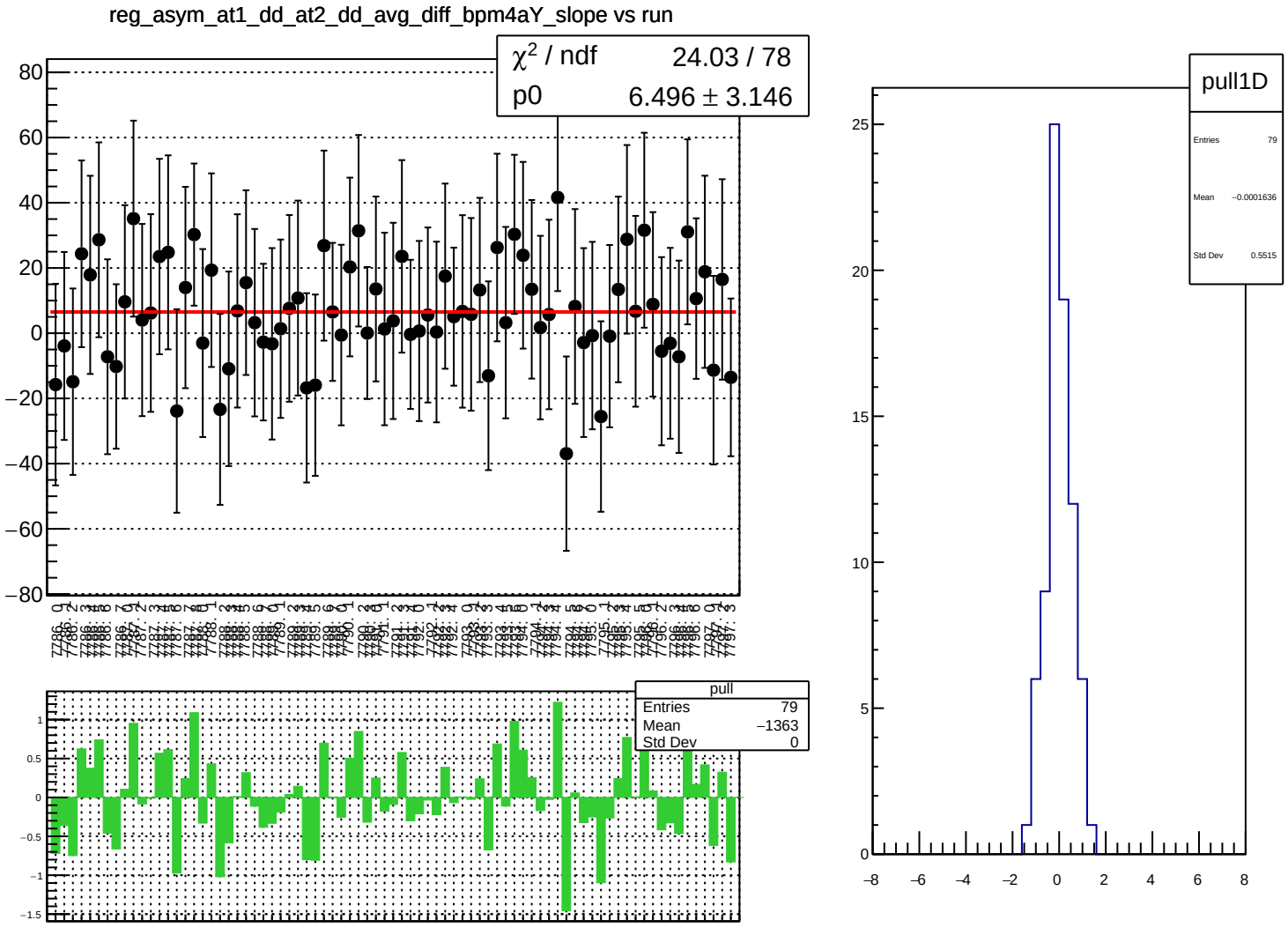

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.47 / 78
p0 −36.32 ± 2.402
pull
Entries 79
Mean −30.11
Std Dev 68.85

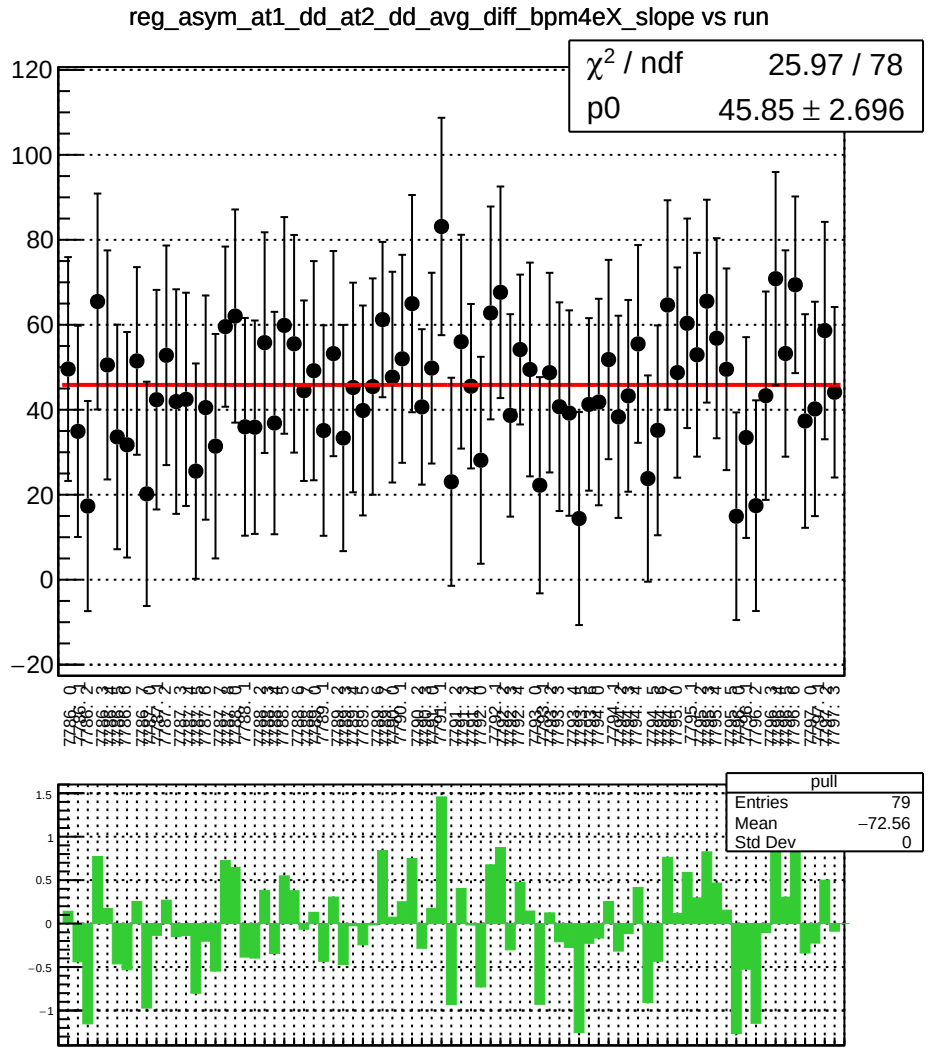

pull1D
Entries 79
Mean 0.001682
Std Dev 0.7332

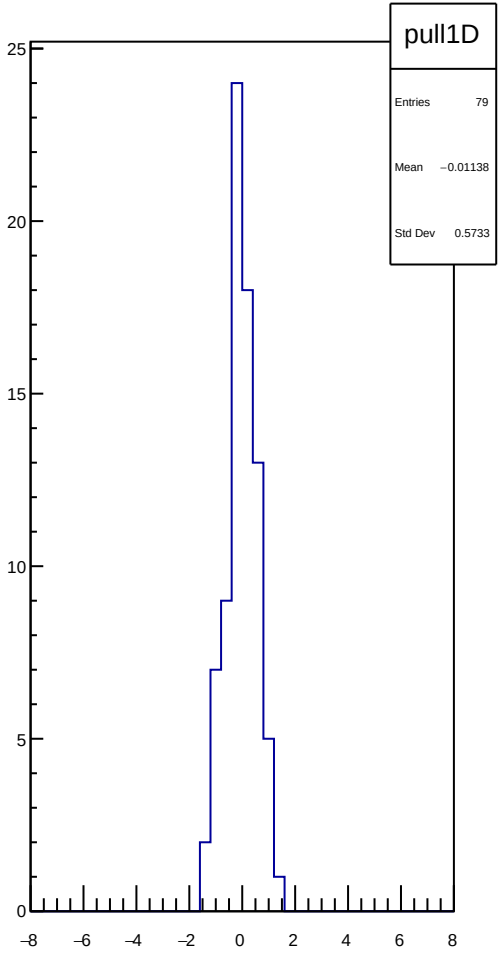

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.26 / 78
p0 1.757 ± 3.176
pull
Entries 79
Mean 960.5
Std Dev 0
pull1D
Entries 79
Mean −0.0004239
Std Dev 0.7139

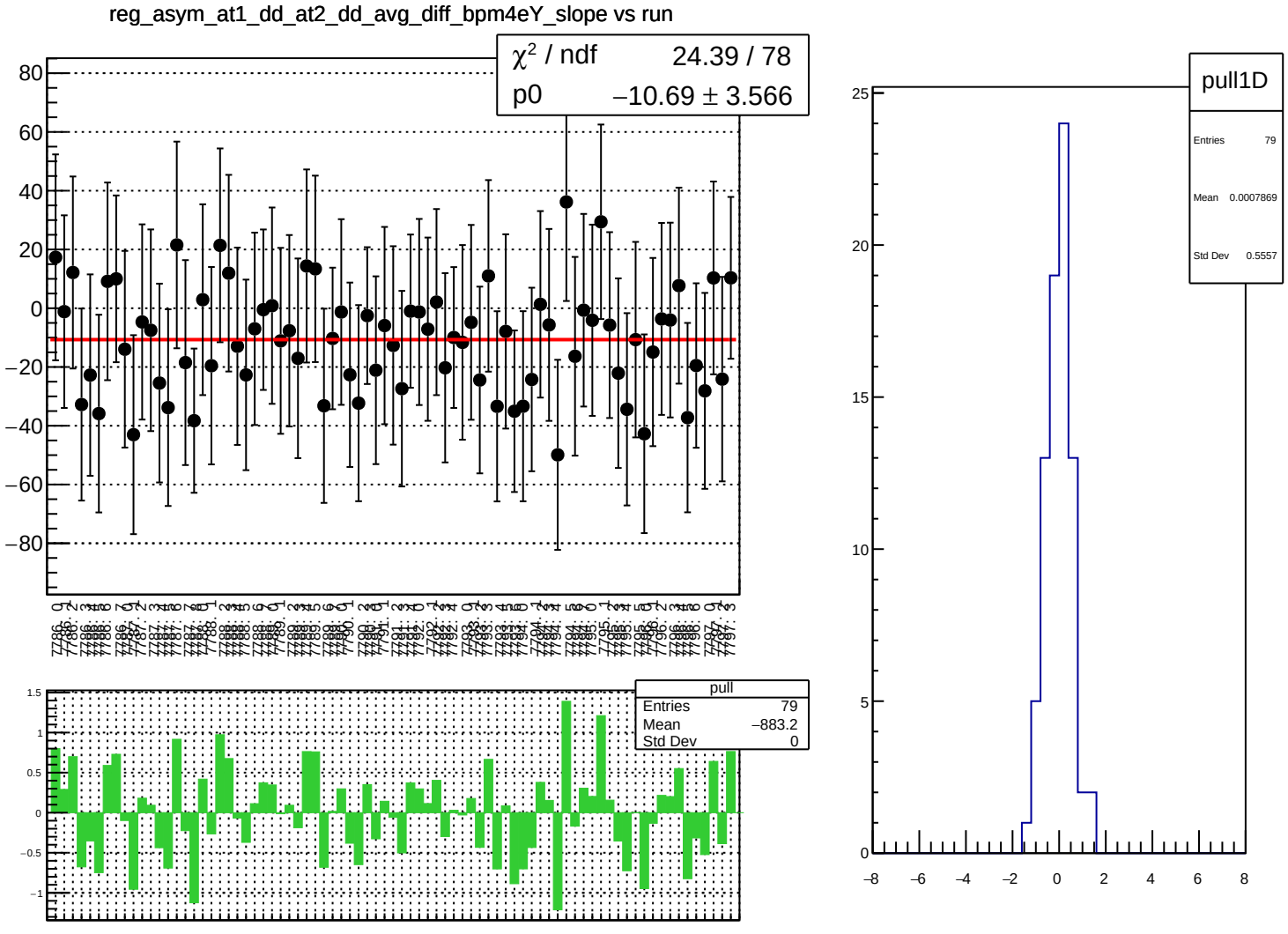

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 57.82 / 78
p0 24.19 ± 0.09865
pull
Entries 79
Mean 142.8
Std Dev 0
pull1D
Entries 79
Mean 0.01321
Std Dev 0.8554

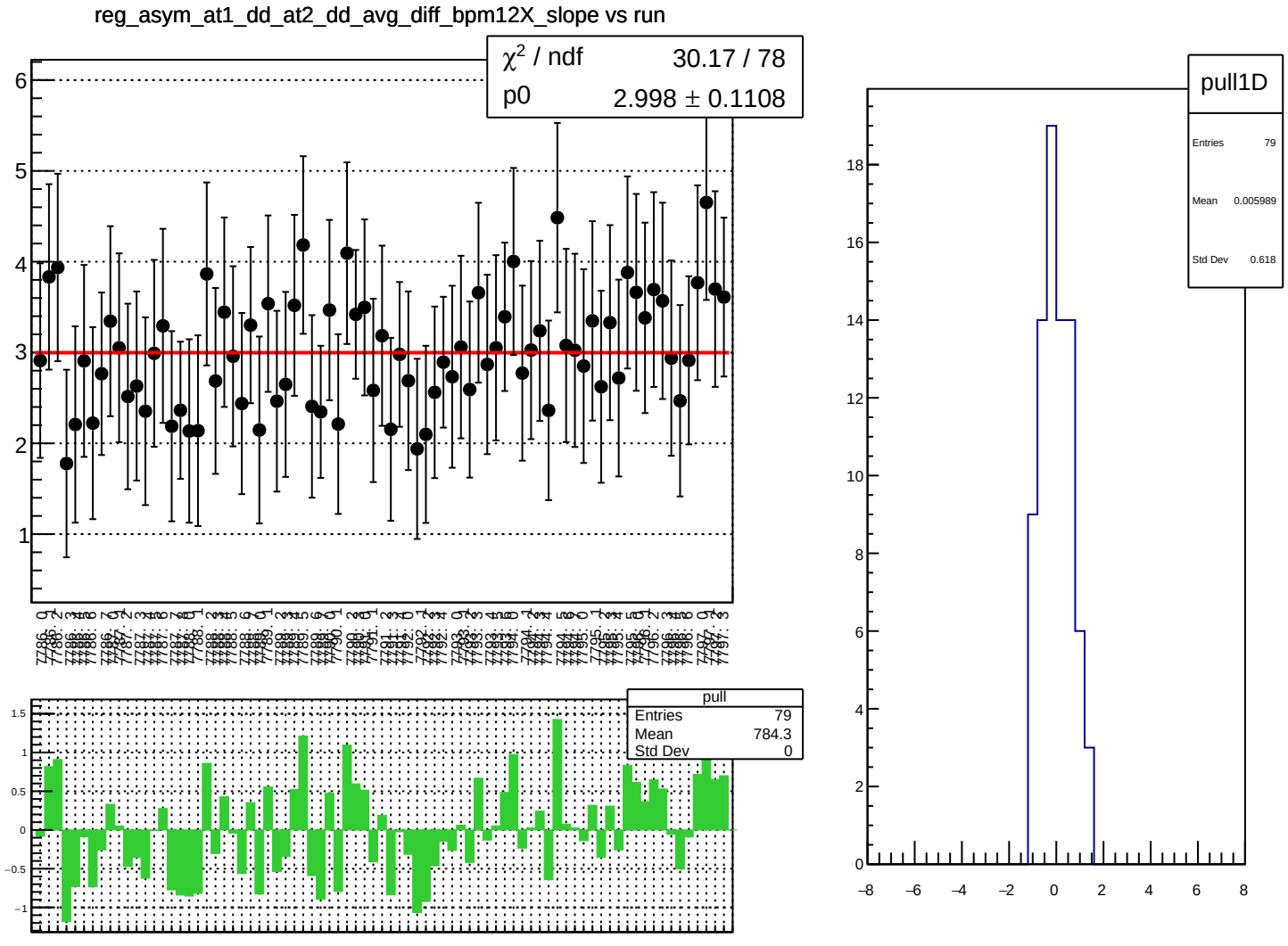

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 26.06 / 78
p0 23.28 ± 3.1
pull
Entries 79
Mean −37.67
Std Dev 0
pull1D
Entries 79
Mean 0.01135
Std Dev 0.5743

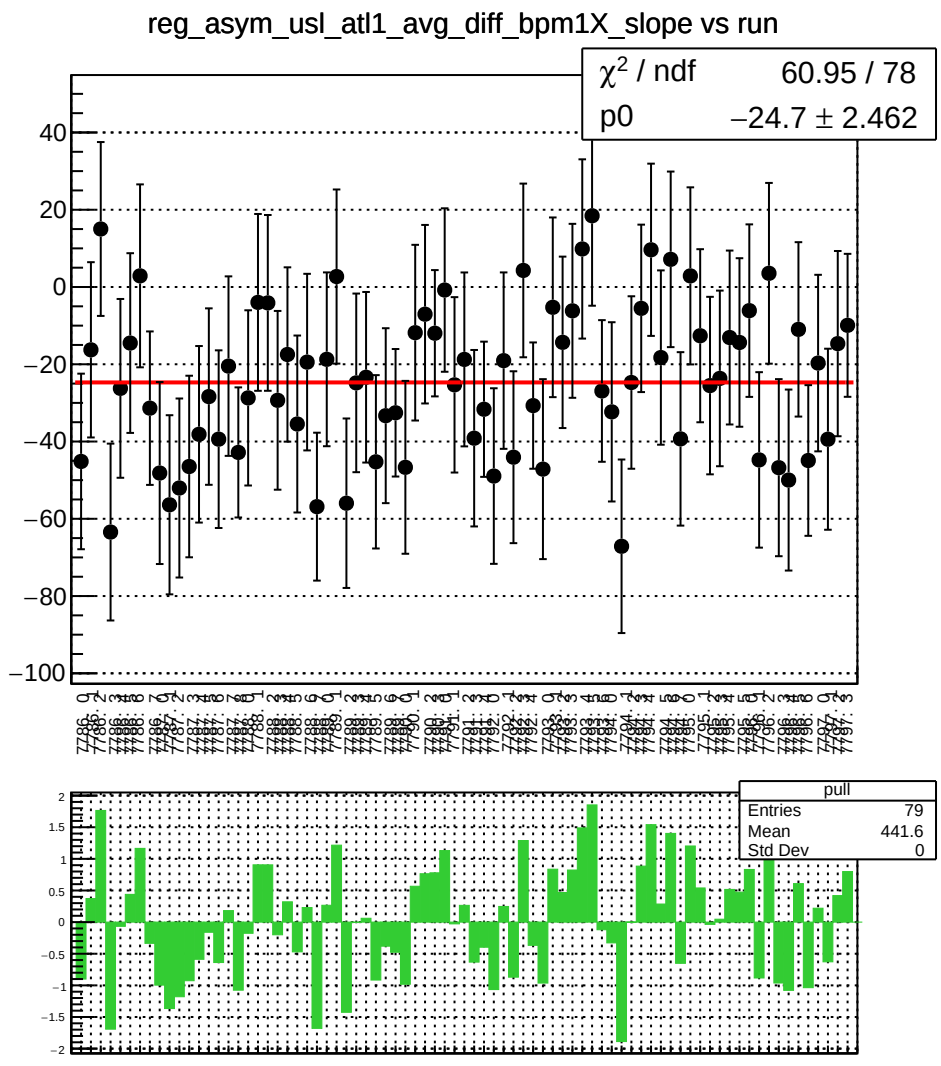

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.03 / 78
p0 6.496 ± 3.146
pull
Entries 79
Mean −1363
Std Dev 0
pull1D
Entries 79
Mean −0.0001636
Std Dev 0.5515

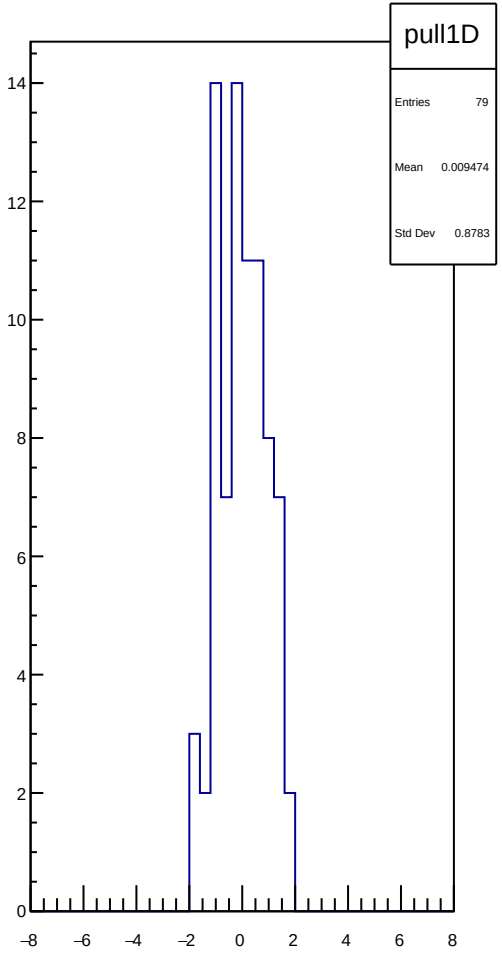

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.97 / 78
p0 45.85 ± 2.696
pull
Entries 79
Mean −72.56
Std Dev 0

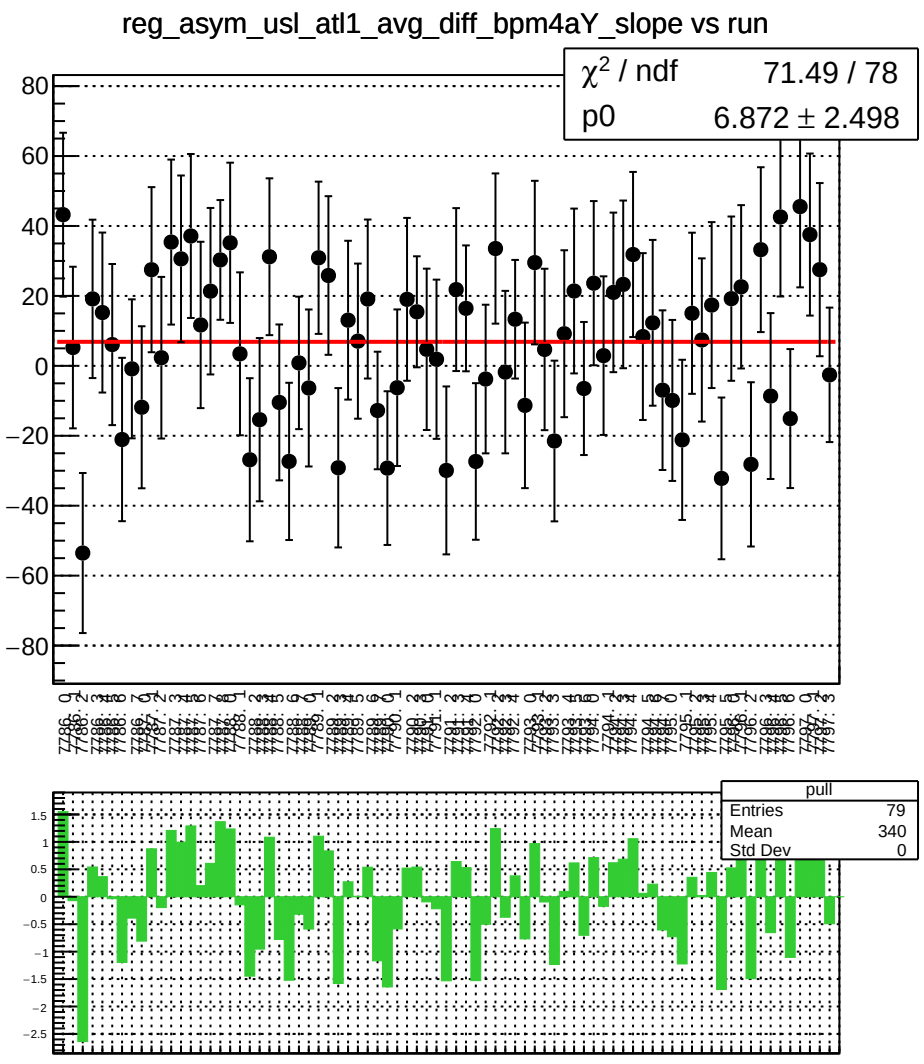

pull1D
Entries 79
Mean −0.01138
Std Dev 0.5733

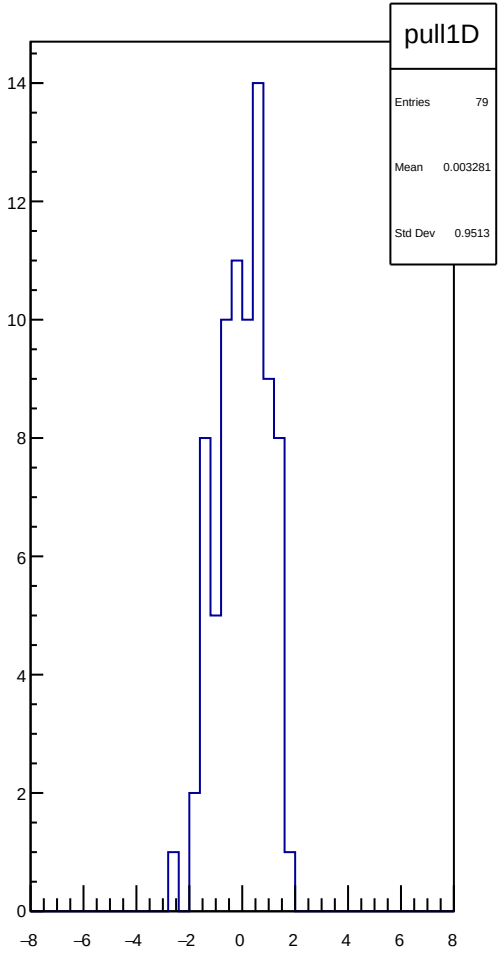

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.39 / 78
p0 −10.69 ± 3.566
pull
Entries 79
Mean −883.2
Std Dev 0
pull1D
Entries 79
Mean 0.0007869
Std Dev 0.5557

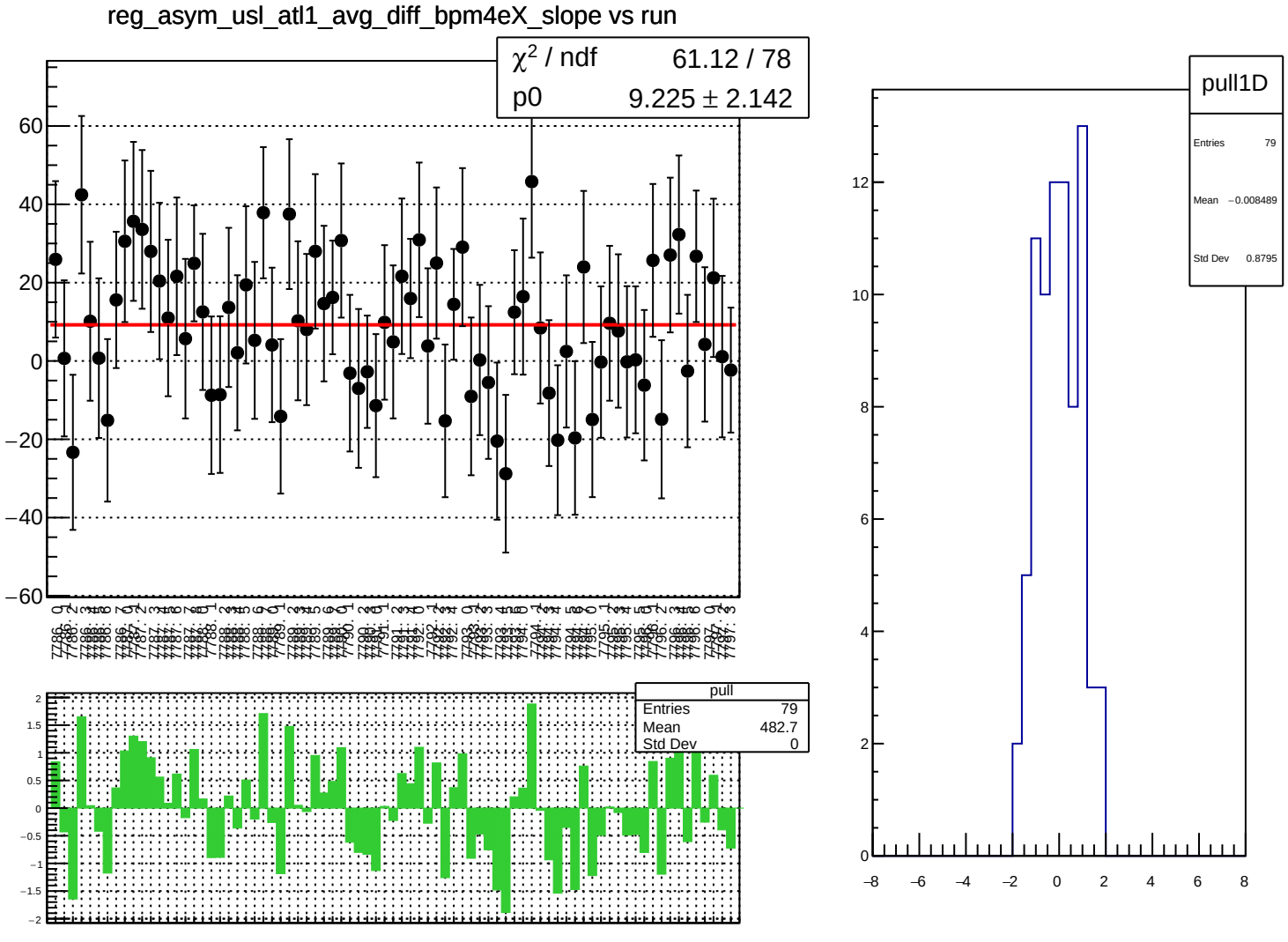

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 30.17 / 78
p0 2.998 ± 0.1108
pull
Entries 79
Mean 784.3
Std Dev 0
pull1D
Entries 79
Mean 0.005989
Std Dev 0.618

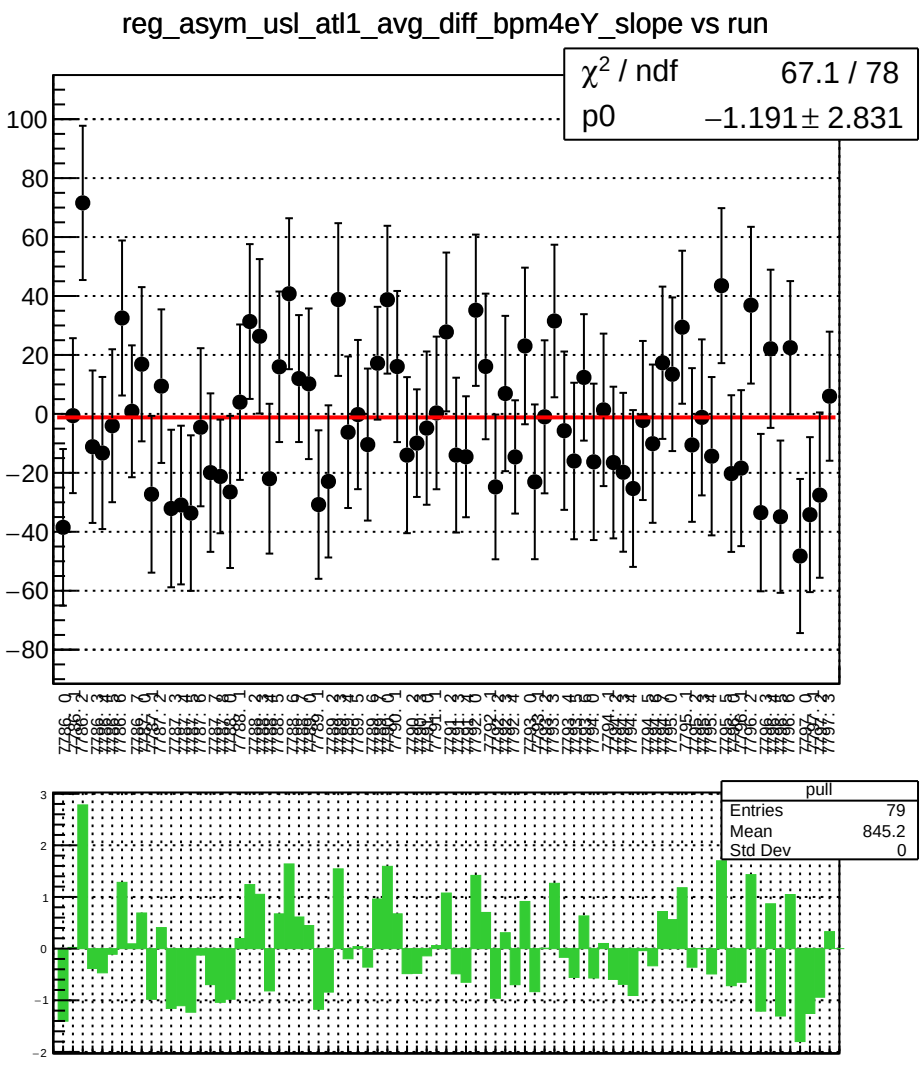

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 60.95 / 78
p0 −24.7 ± 2.462
pull
Entries 79
Mean 441.6
Std Dev 0

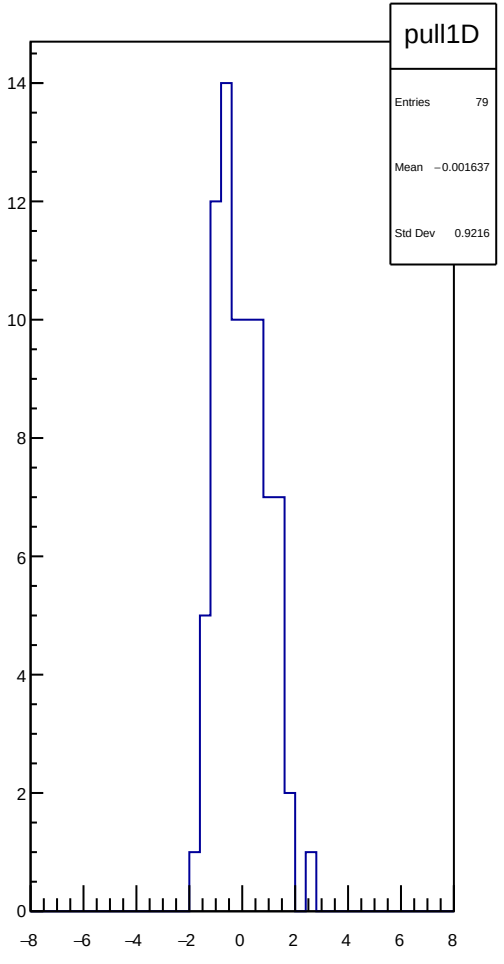

pull1D
Entries 79
Mean 0.009474
Std Dev 0.8783

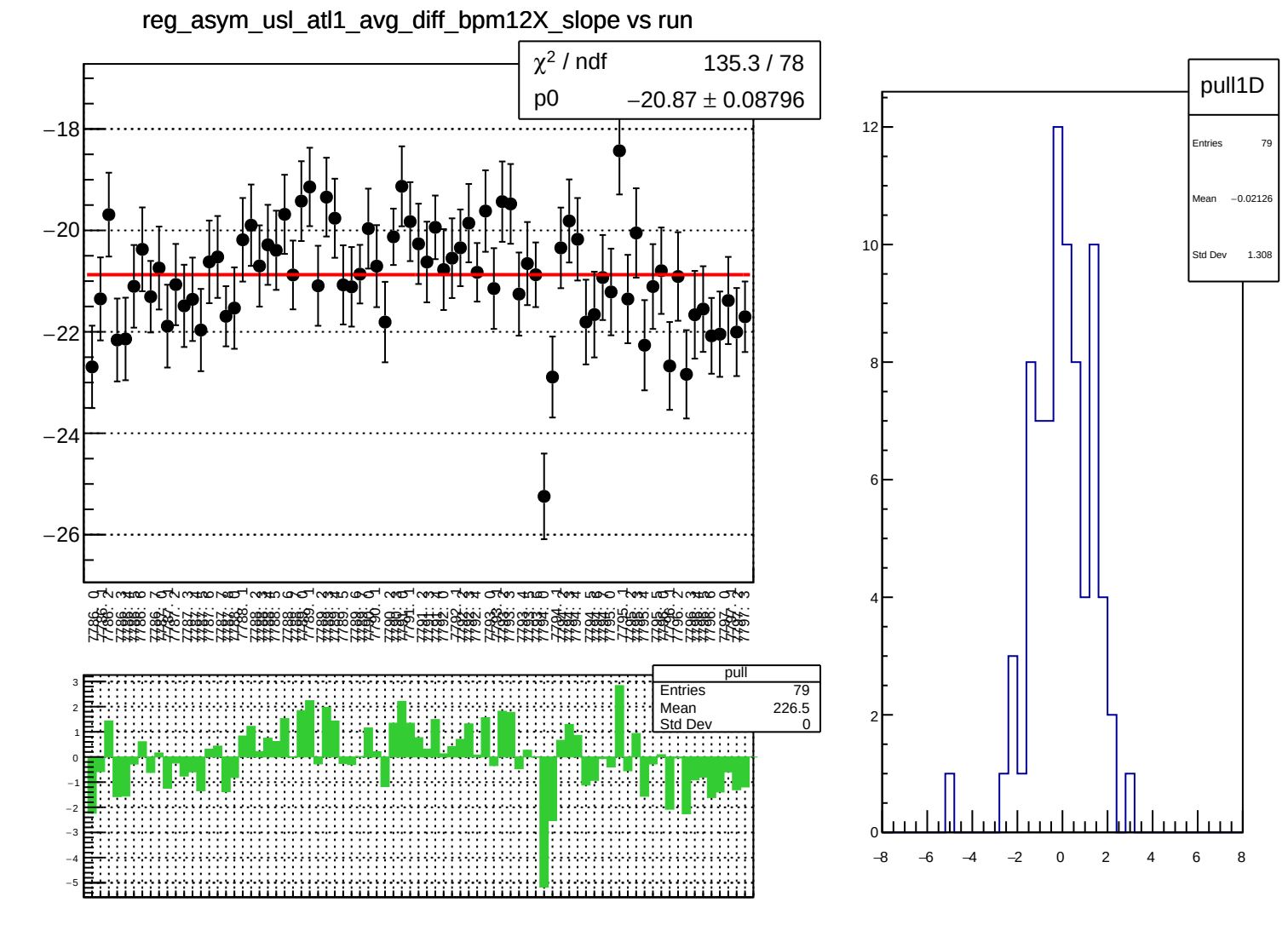

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.49 / 78
p0 6.872 ± 2.498
pull
Entries 79
Mean 340
Std Dev 0

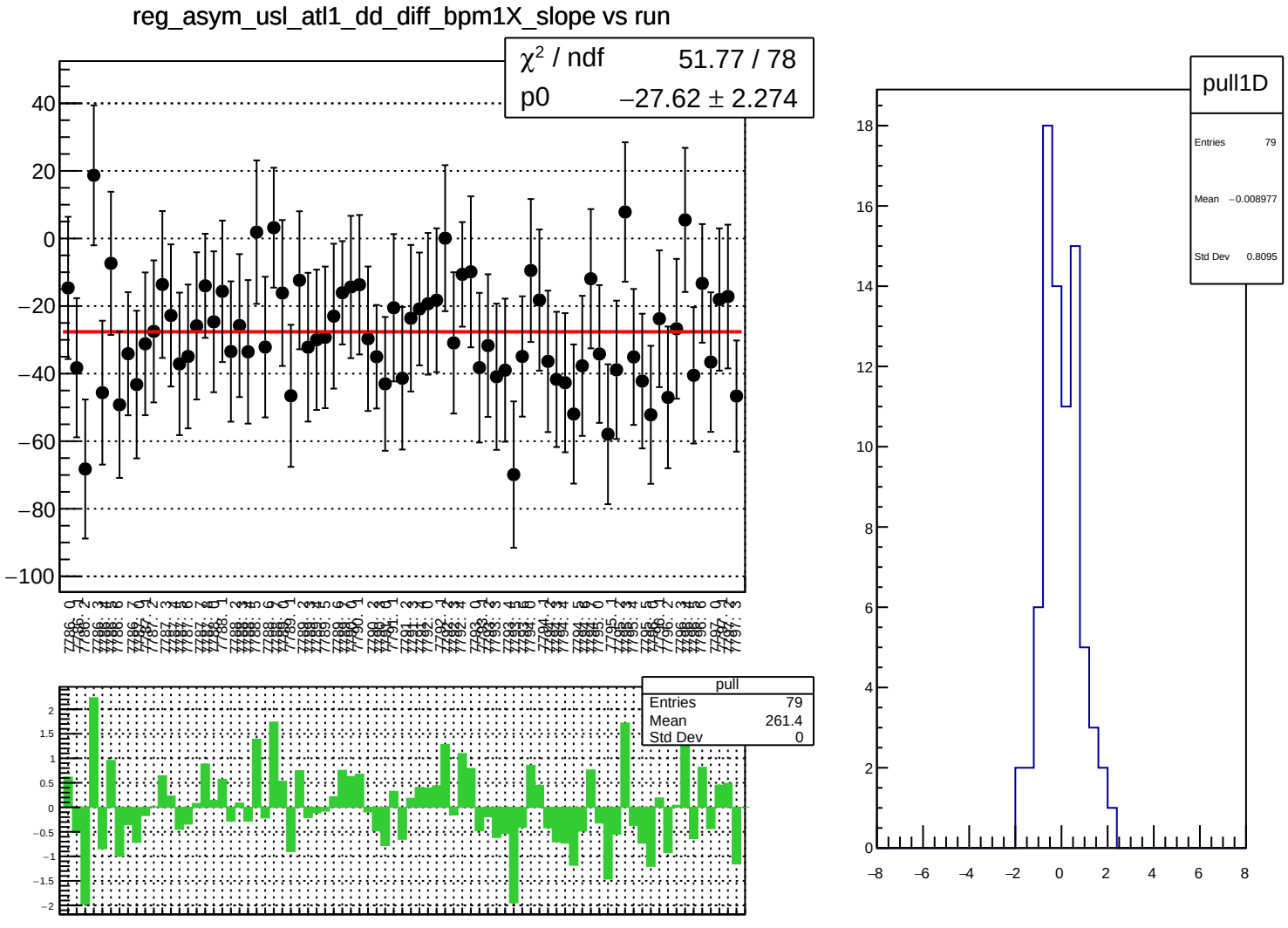

pull1D
Entries 79
Mean 0.003281
Std Dev 0.9513

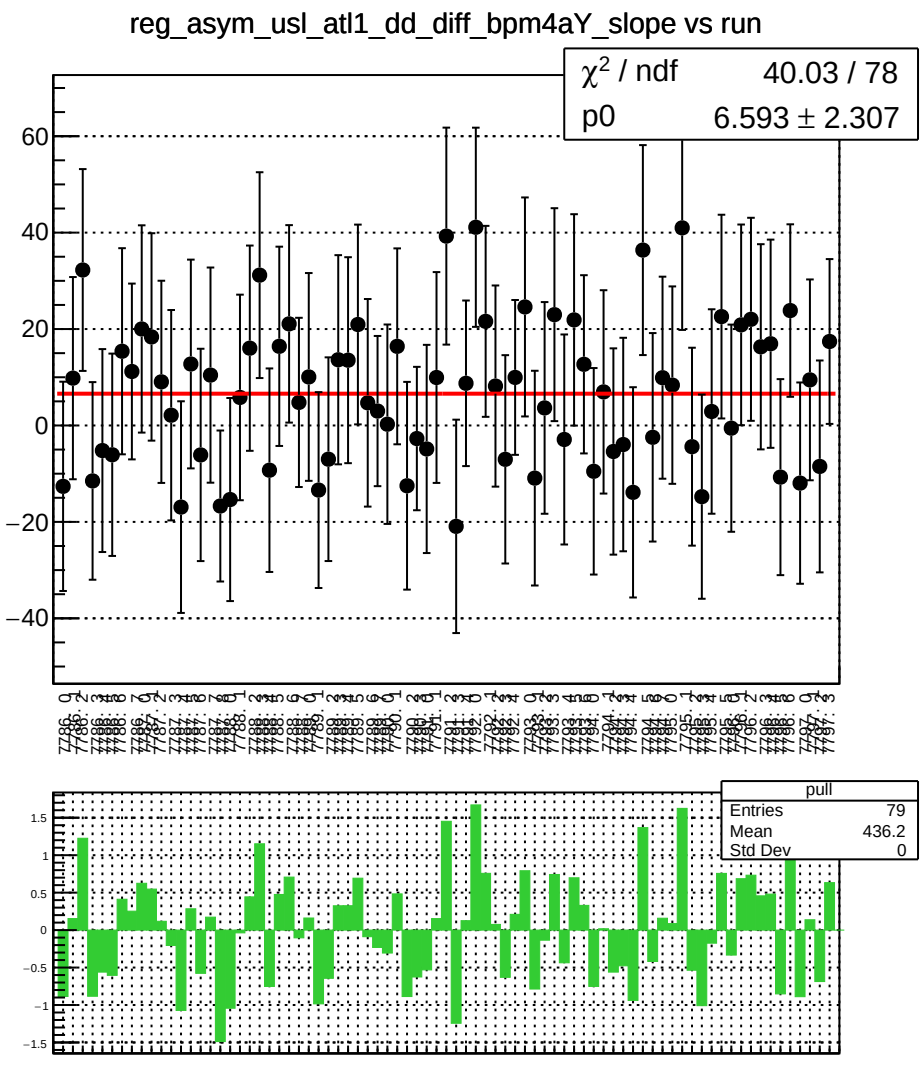

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.12 / 78
p0 9.225 ± 2.142
pull
Entries 79
Mean 482.7
Std Dev 0
pull1D
Entries 79
Mean −0.008489
Std Dev 0.8795

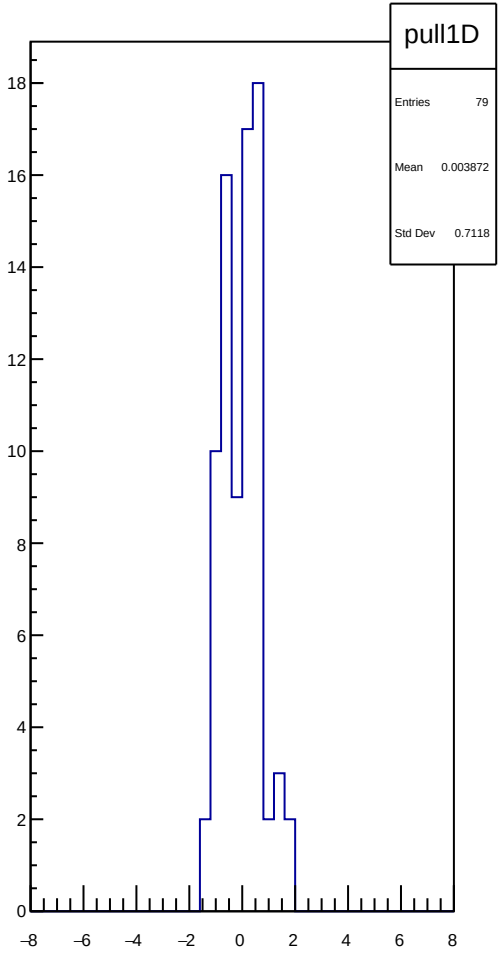

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 67.1 / 78
p0 −1.191 ± 2.831
pull
Entries 79
Mean 845.2
Std Dev 0

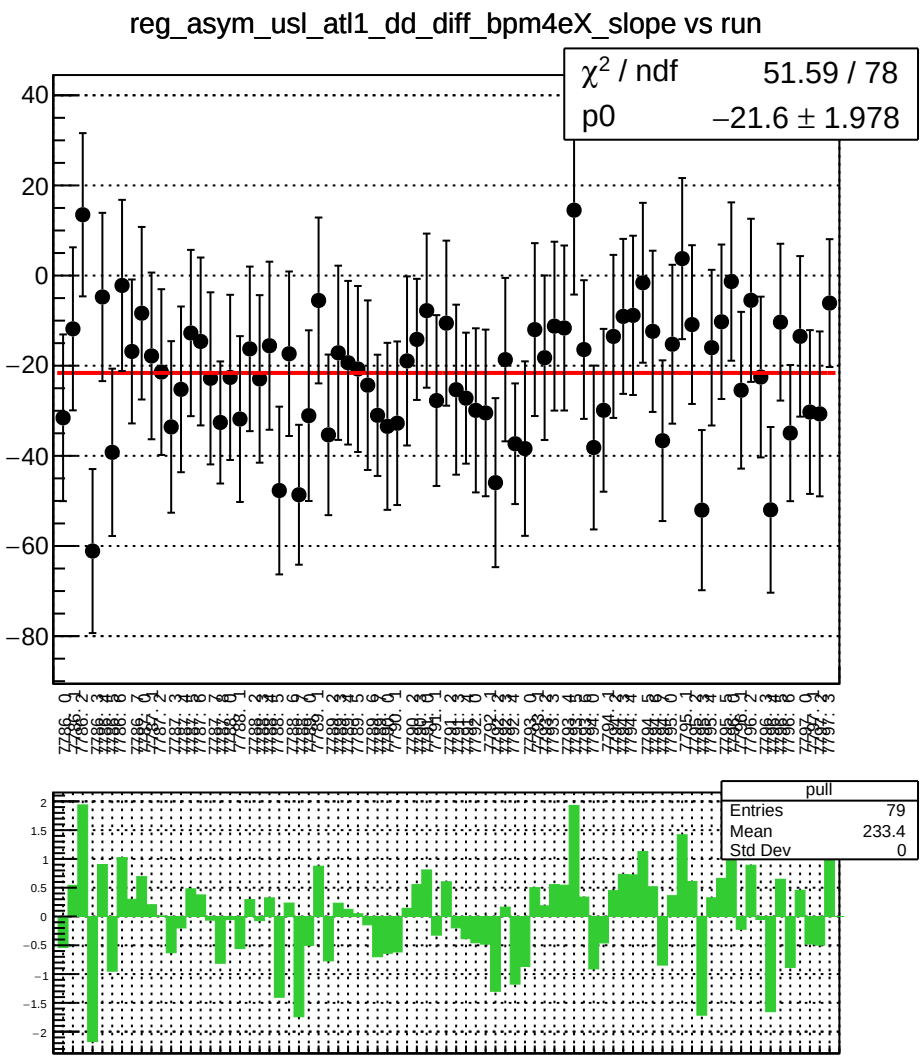

pull1D
Entries 79
Mean −0.001637
Std Dev 0.9216

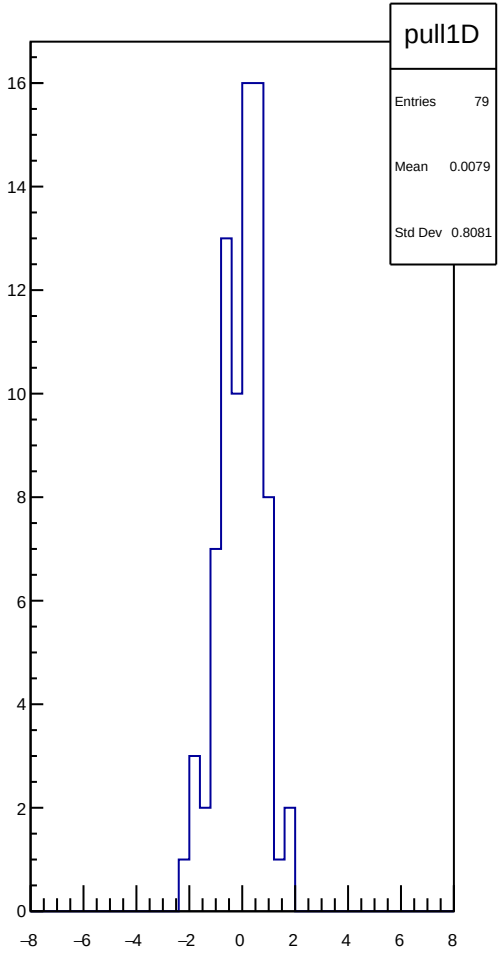

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 135.3 / 78
p0 −20.87 ± 0.08796
pull
Entries 79
Mean 226.5
Std Dev 0
pull1D
Entries 79
Mean −0.02126
Std Dev 1.308

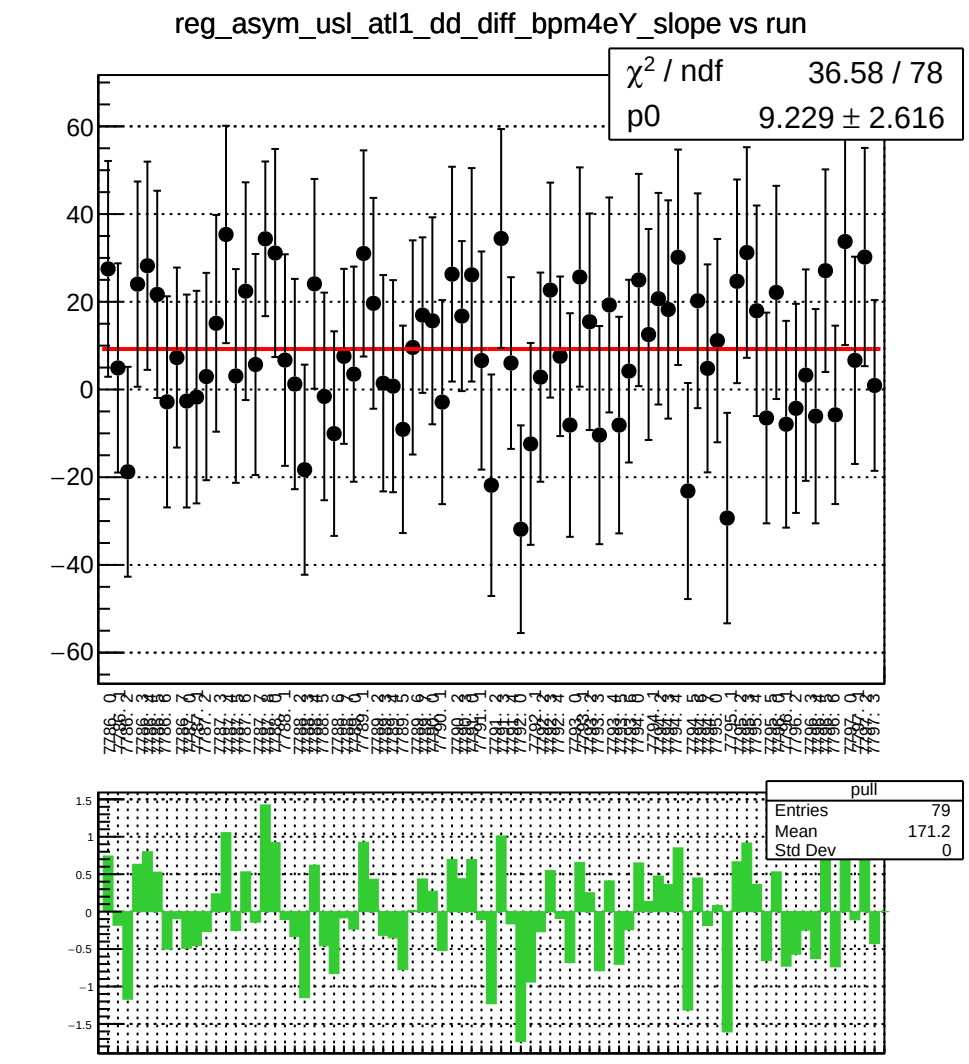

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 51.77 / 78
p0 −27.62 ± 2.274
pull
Entries 79
Mean 261.4
Std Dev 0
pull1D
Entries 79
Mean −0.008977
Std Dev 0.8095

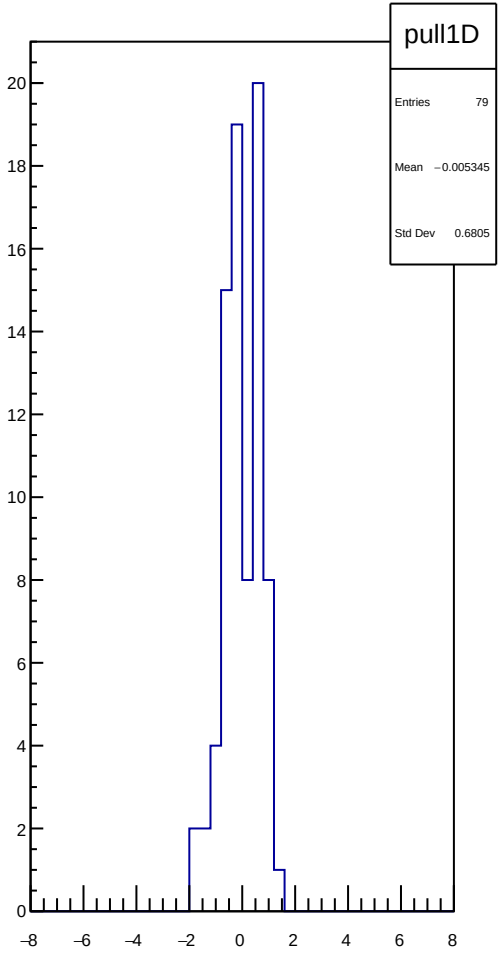

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.03 / 78
p0 6.593 ± 2.307
pull
Entries 79
Mean 436.2
Std Dev 0

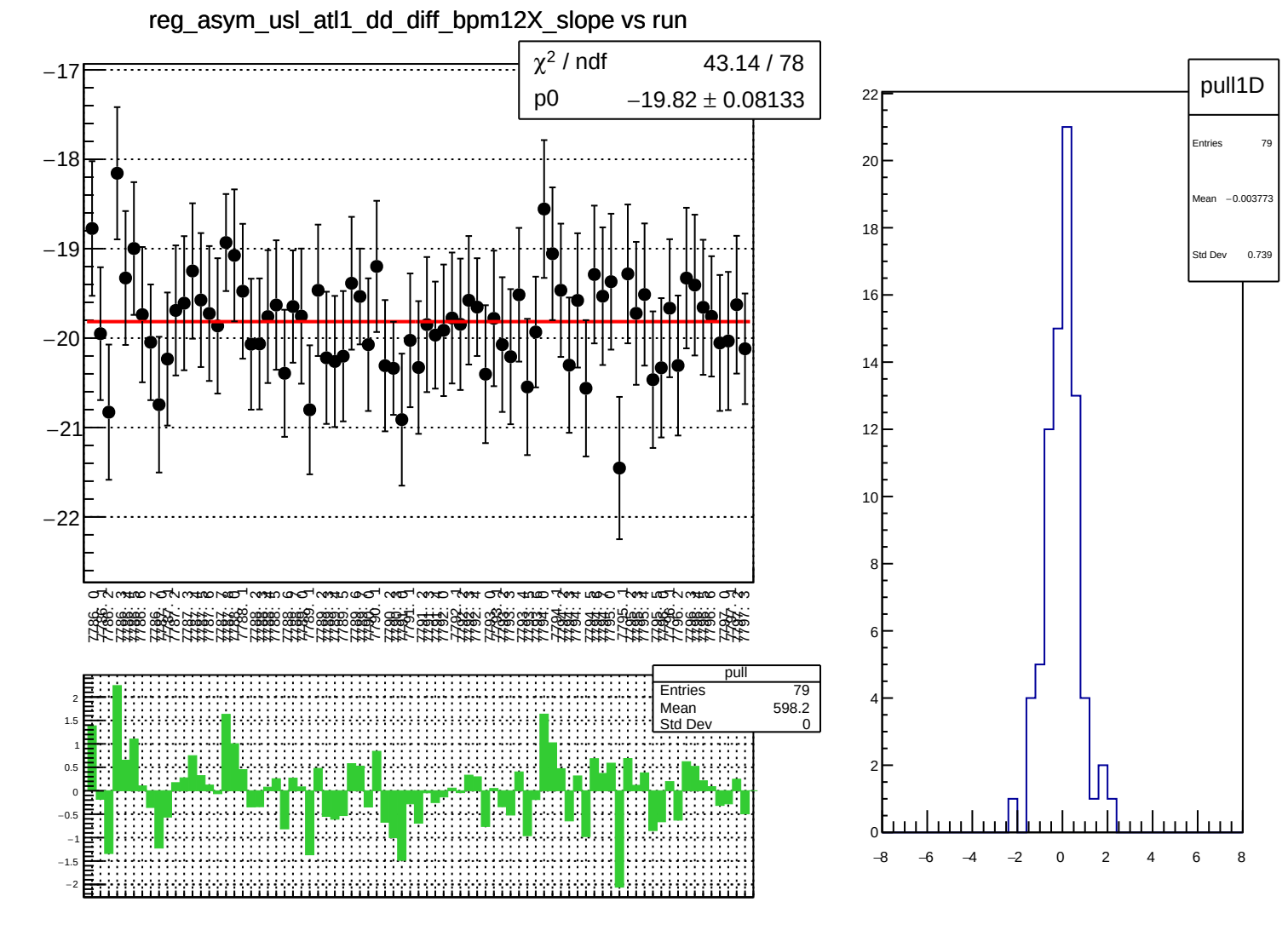

pull1D
Entries 79
Mean 0.003872
Std Dev 0.7118

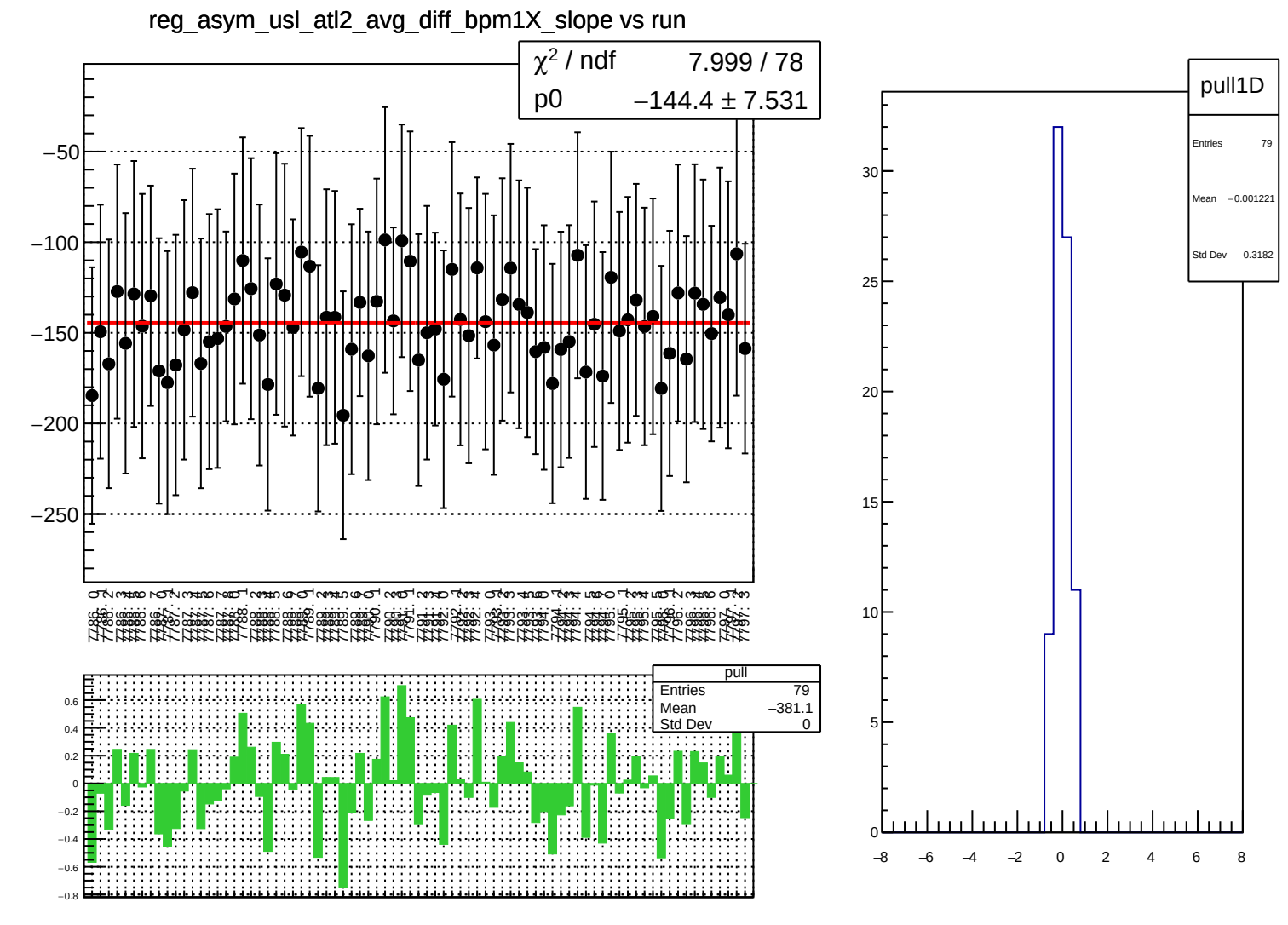

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.59 / 78
p0 −21.6 ± 1.978
pull
Entries 79
Mean 233.4
Std Dev 0

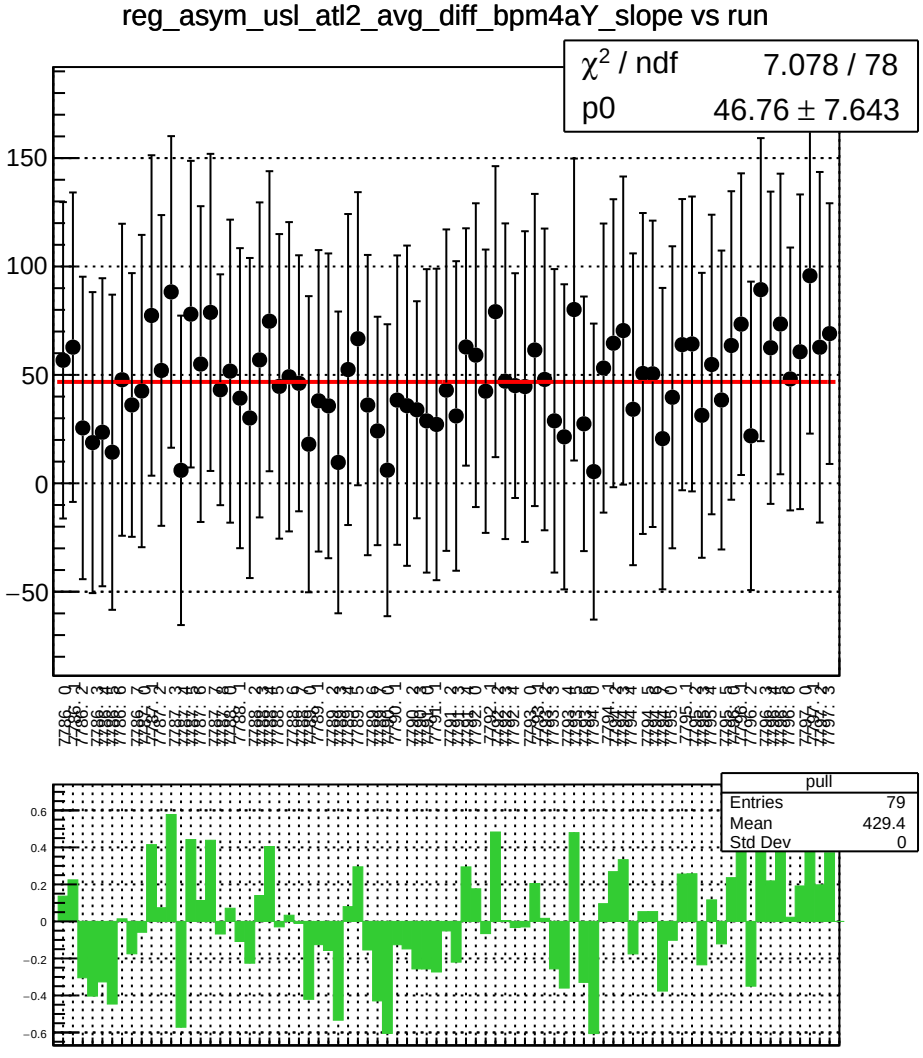

pull1D
Entries 79
Mean 0.0079
Std Dev 0.8081

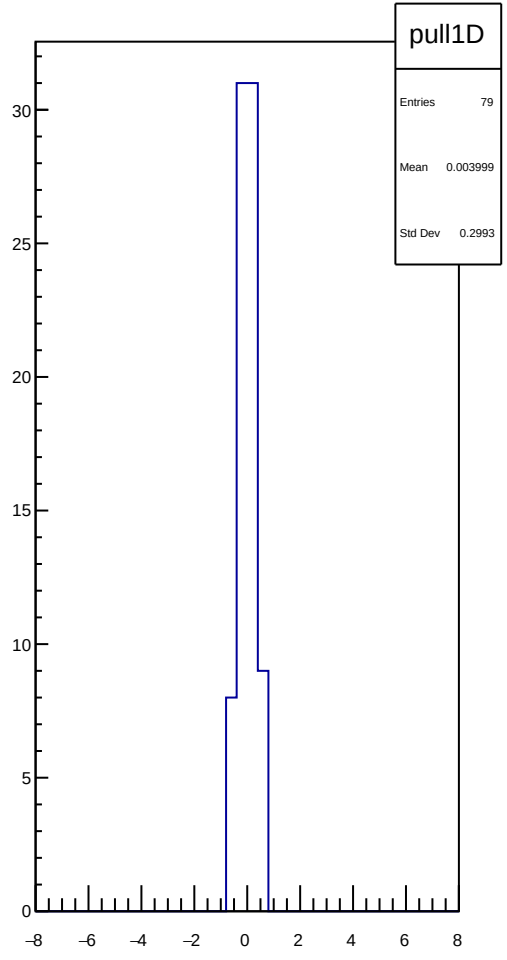

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.58 / 78
p0 9.229 ± 2.616
pull
Entries 79
Mean 171.2
Std Dev 0

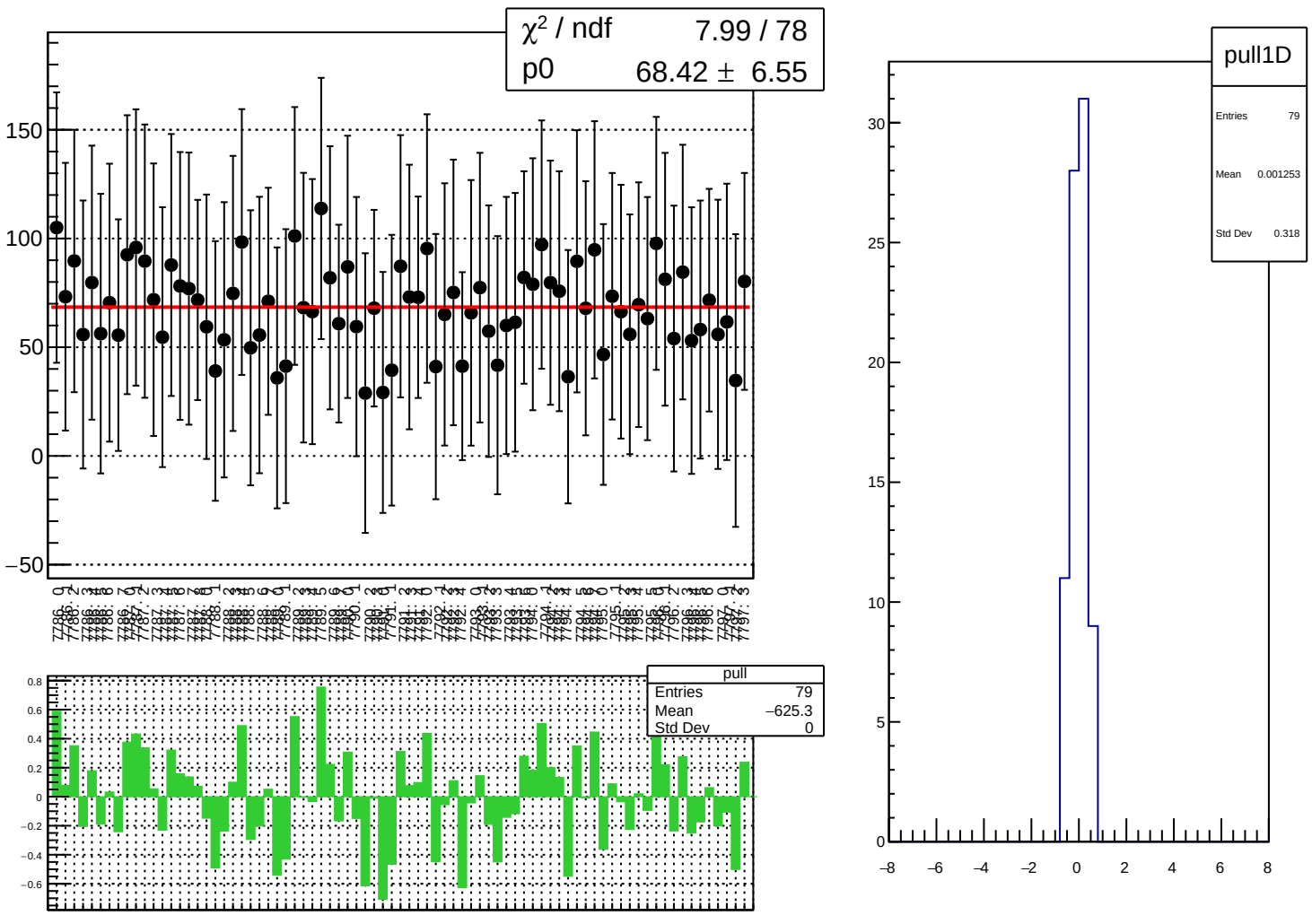

pull1D
Entries 79
Mean −0.005345
Std Dev 0.6805

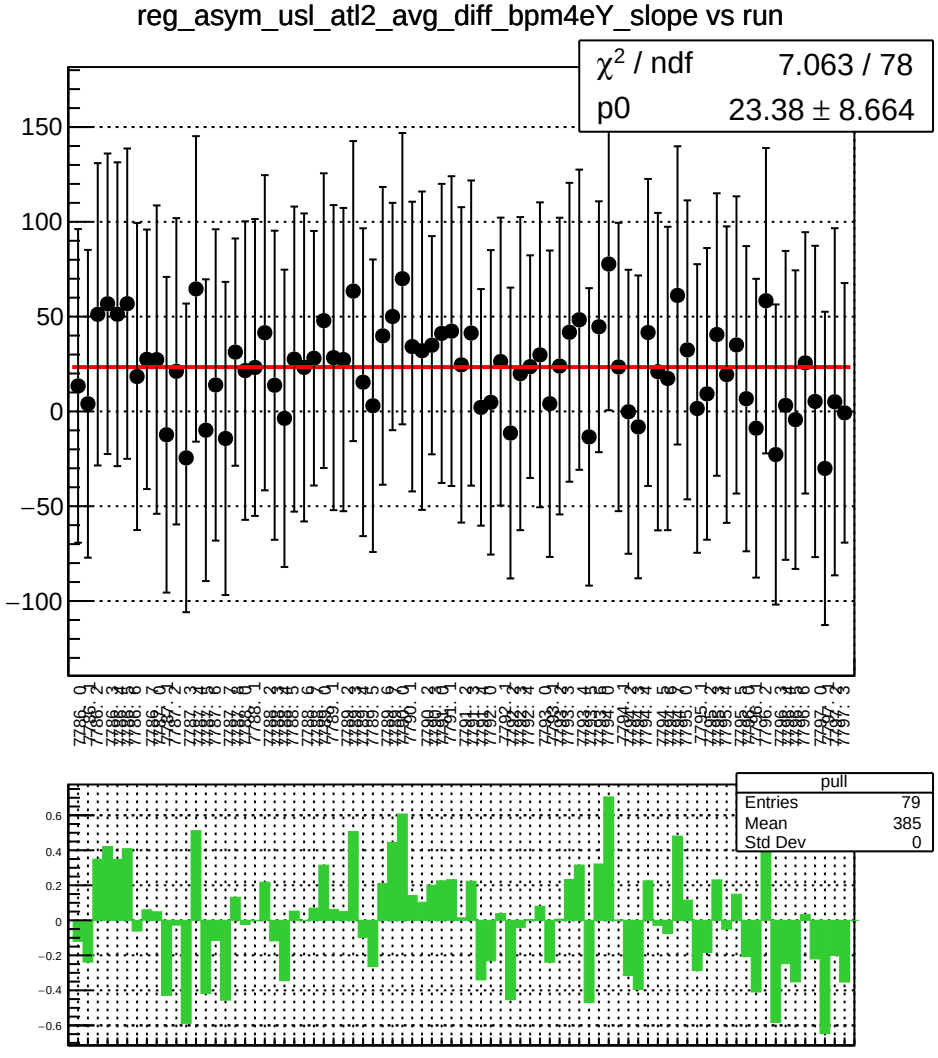

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 43.14 / 78
p0 −19.82 ± 0.08133
pull
Entries 79
Mean 598.2
Std Dev 0
pull1D
Entries 79
Mean −0.003773
Std Dev 0.739

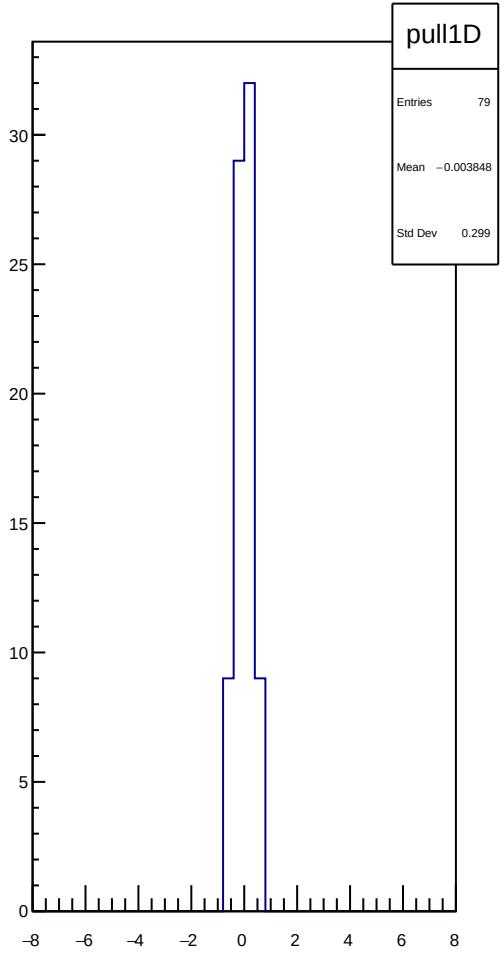

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.999 / 78
p0 −144.4 ± 7.531
pull
Entries 79
Mean −381.1
Std Dev 0
pull1D
Entries 79
Mean −0.001221
Std Dev 0.3182

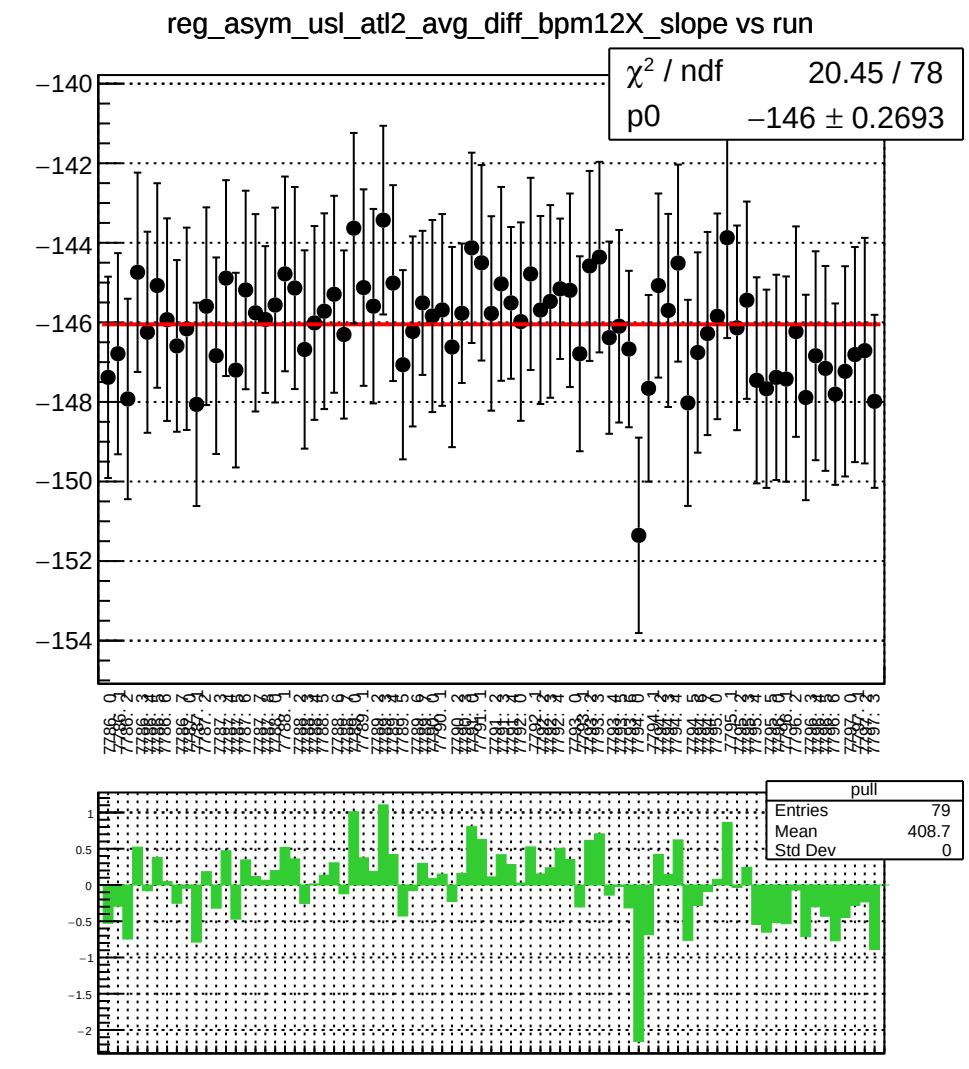

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.078 / 78
p0 46.76 ± 7.643
150
100
50
0
−50
pull
Entries 79
Mean 429.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

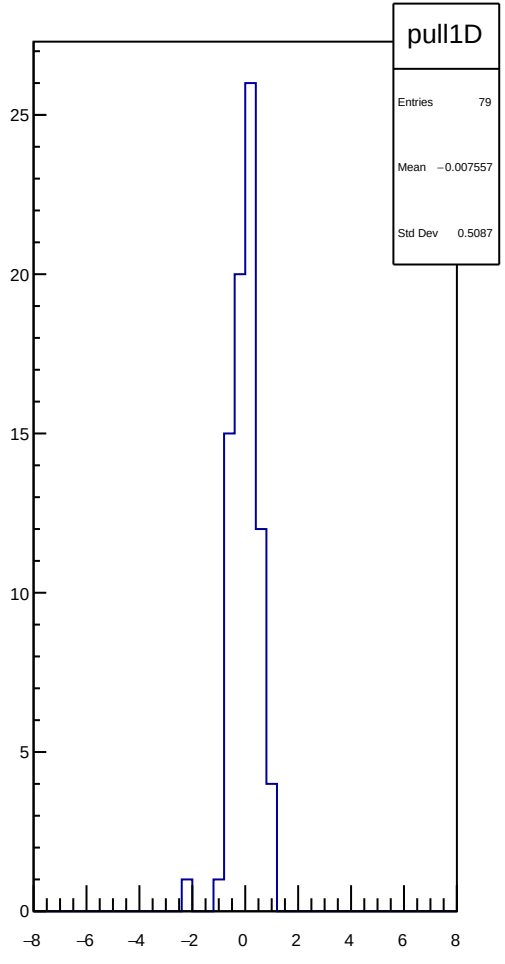

pull1D
Entries 79
Mean 0.003999
Std Dev 0.2993
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

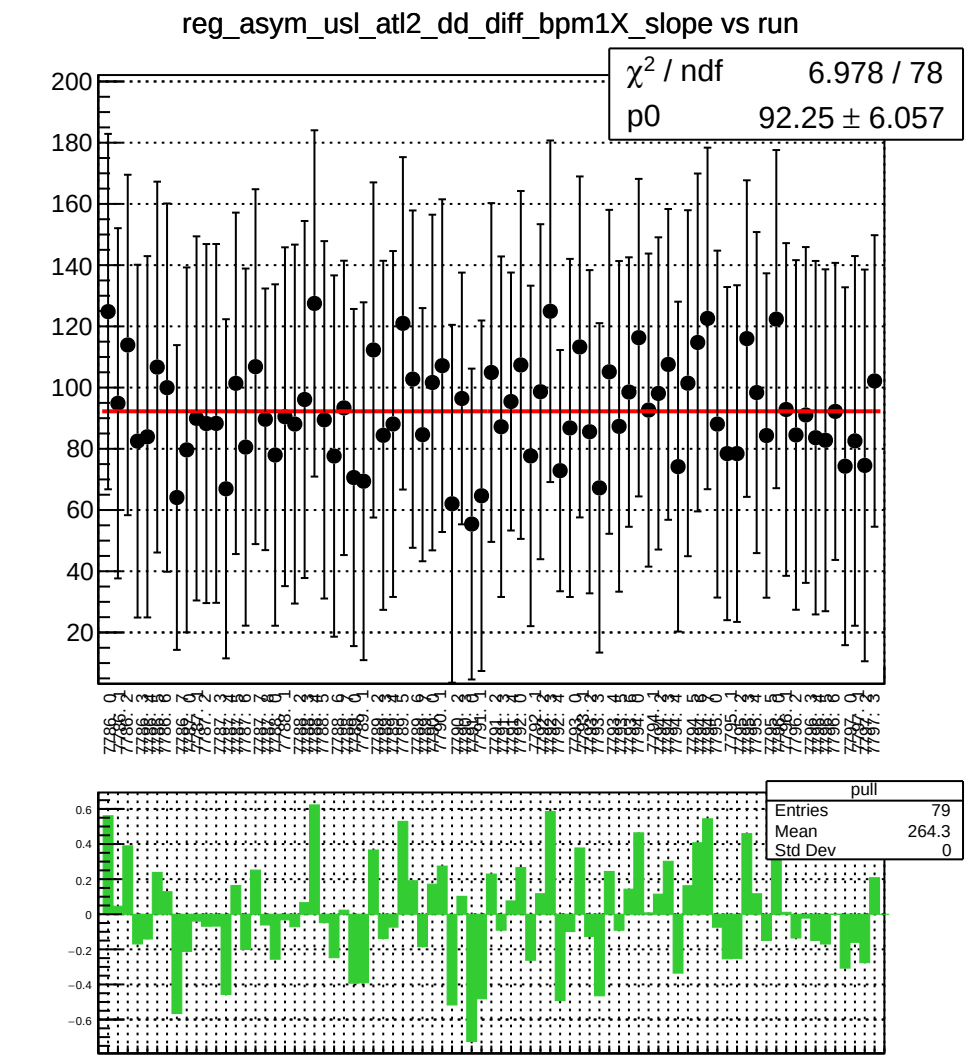

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.99 / 78
p0 68.42 ± 6.55
150
100
50
0
−50
pull
Entries 79
Mean −625.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 79
Mean 0.001253
Std Dev 0.318
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

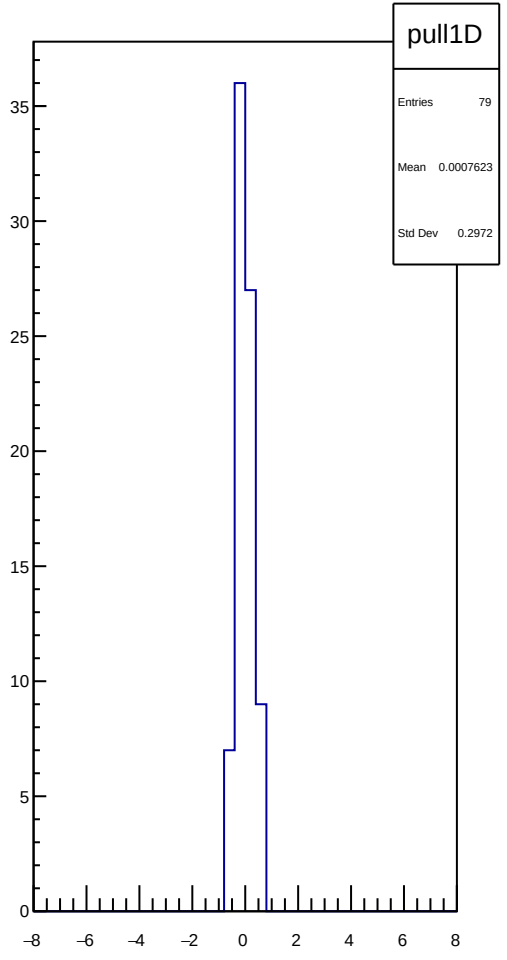

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.063 / 78
p0 23.38 ± 8.664
150
100
50
0
−50
−100
pull
Entries 79
Mean 385
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

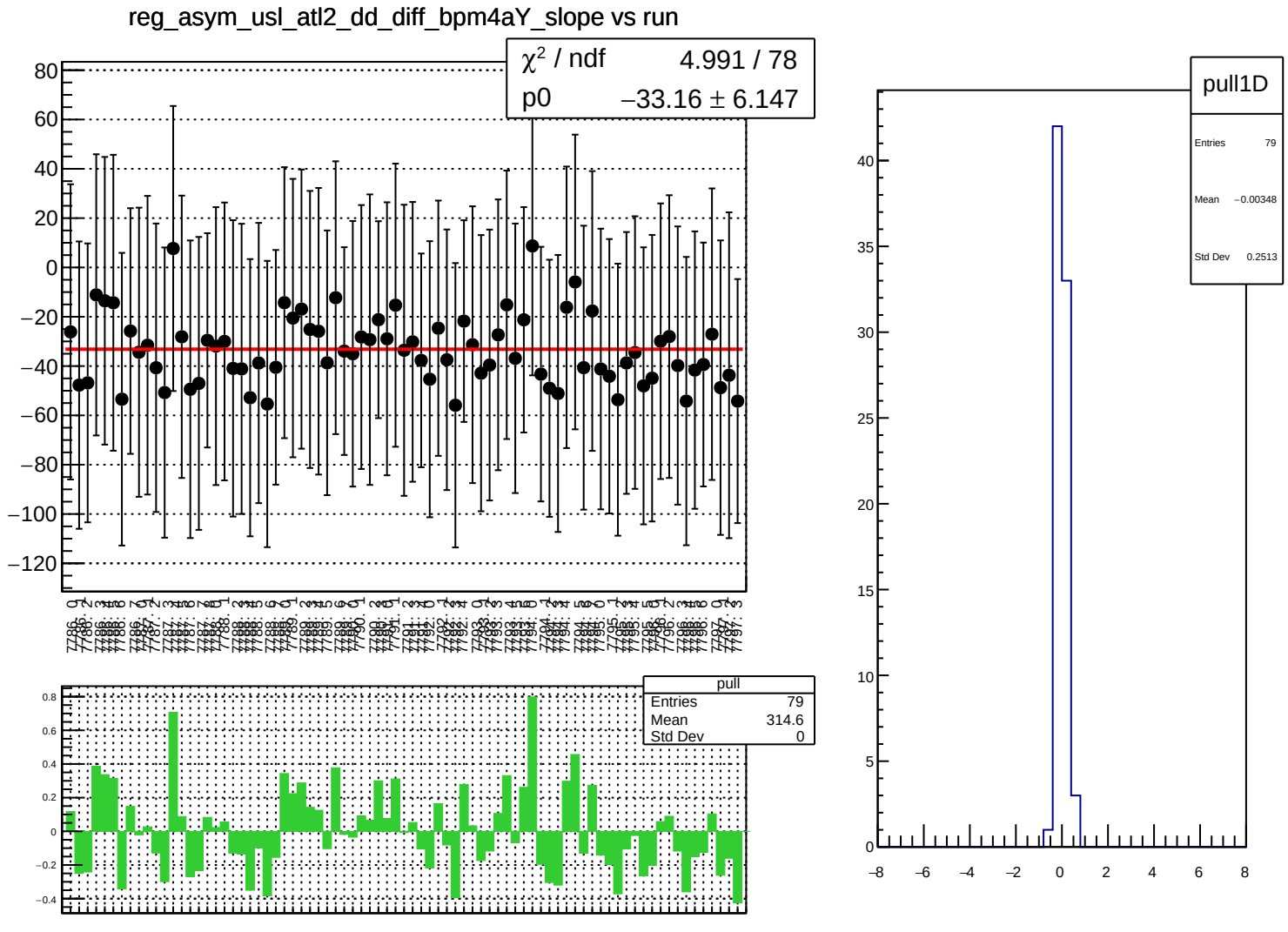

pull1D
Entries 79
Mean −0.003848
Std Dev 0.299
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

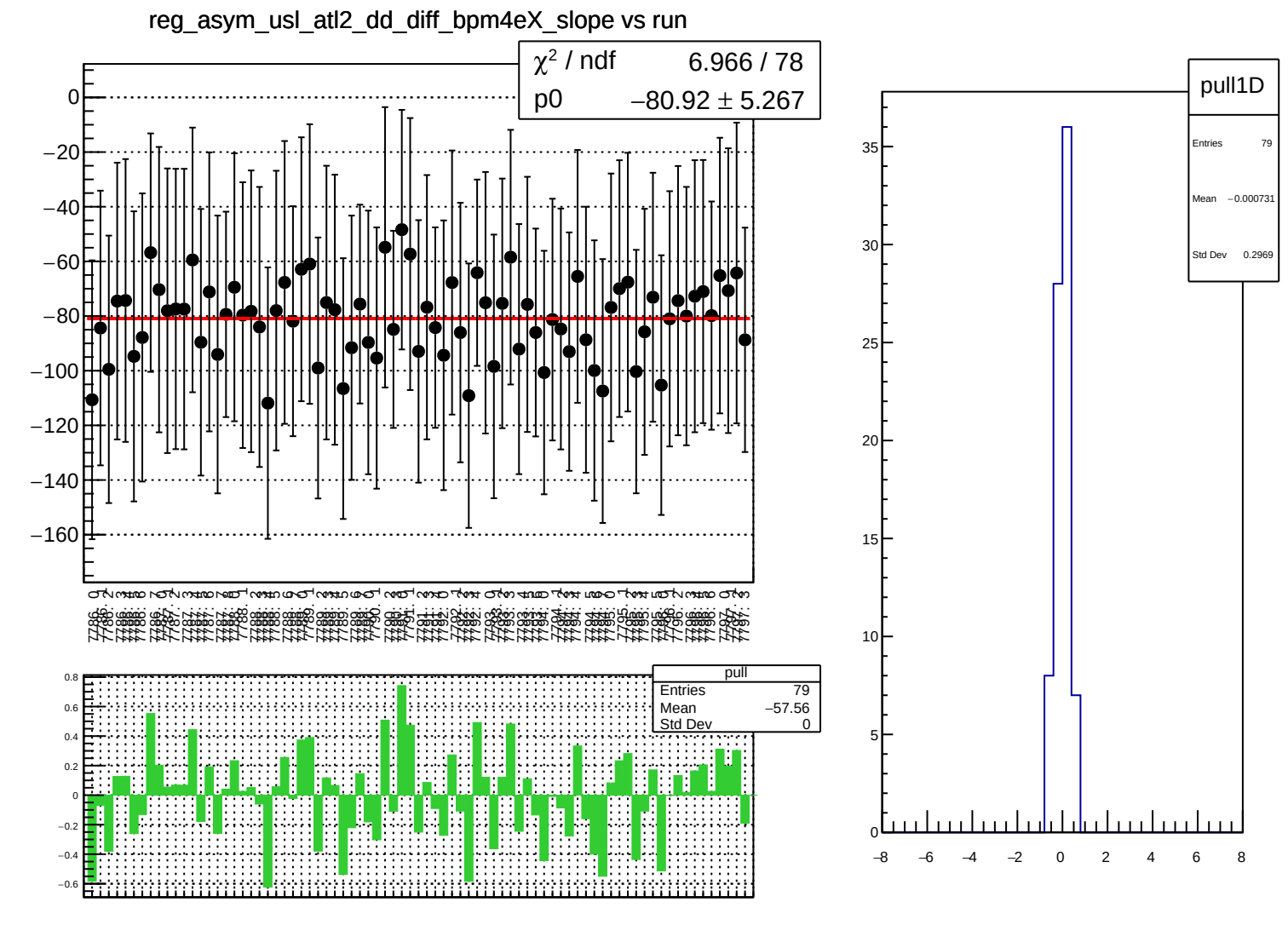

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 20.45 / 78
p0 −146 ± 0.2693
−140
−142
−144
−146
−148
−150
−152
−154
pull
Entries 79
Mean 408.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

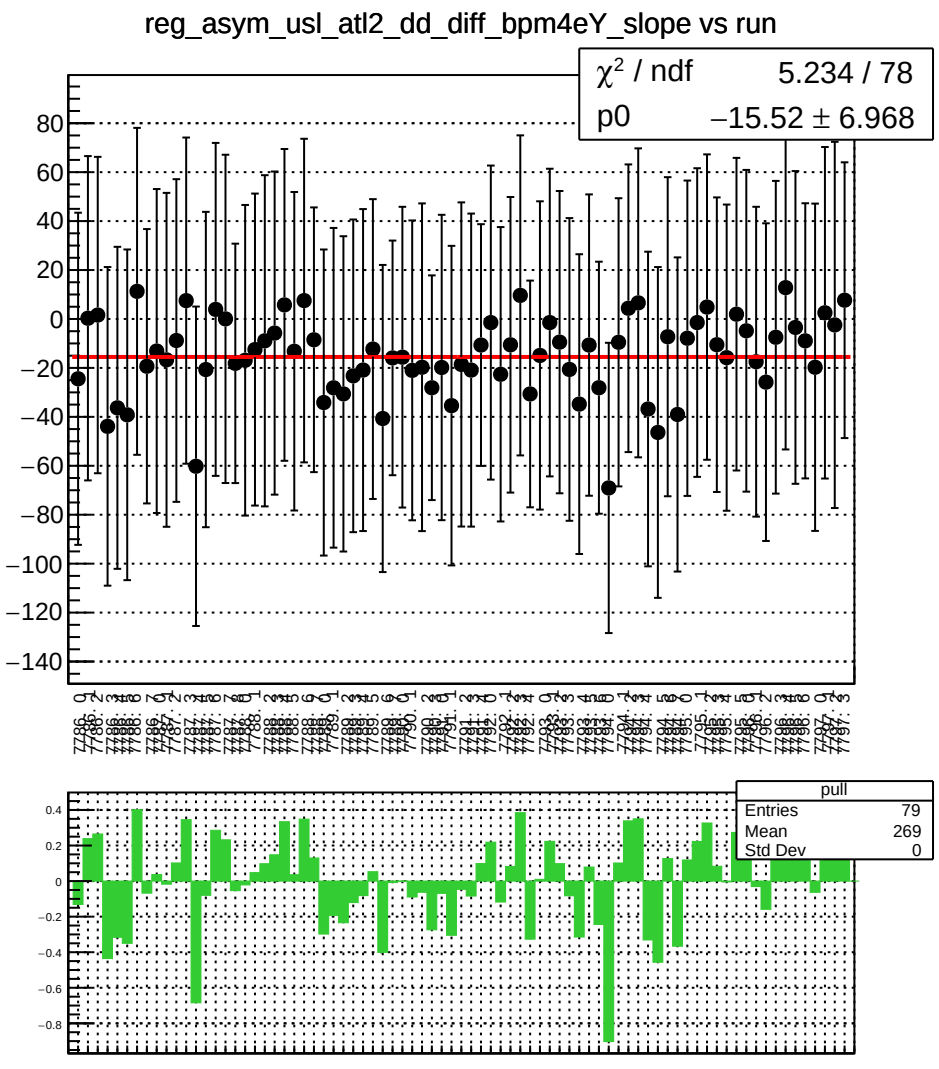

pull1D
Entries 79
Mean −0.007557
Std Dev 0.5087
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

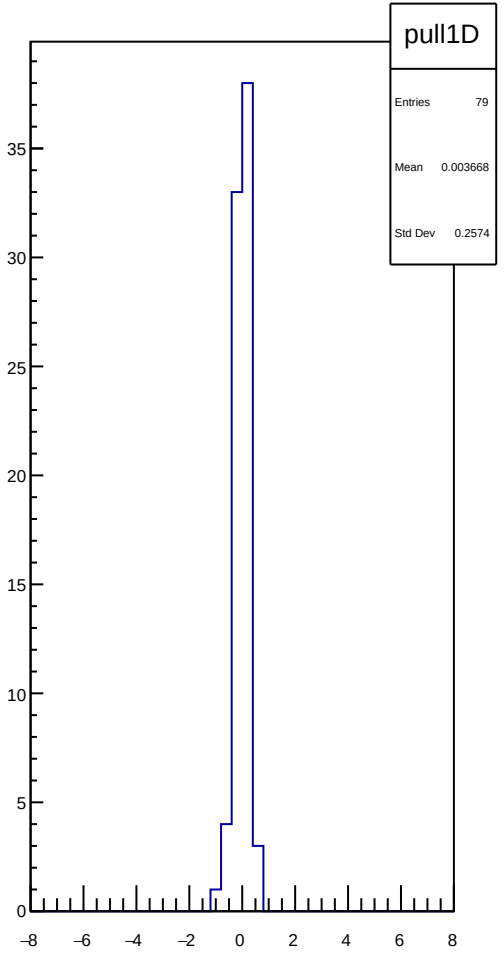

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 6.978 / 78
p0 92.25 ± 6.057
pull
Entries 79
Mean 264.3
Std Dev 0

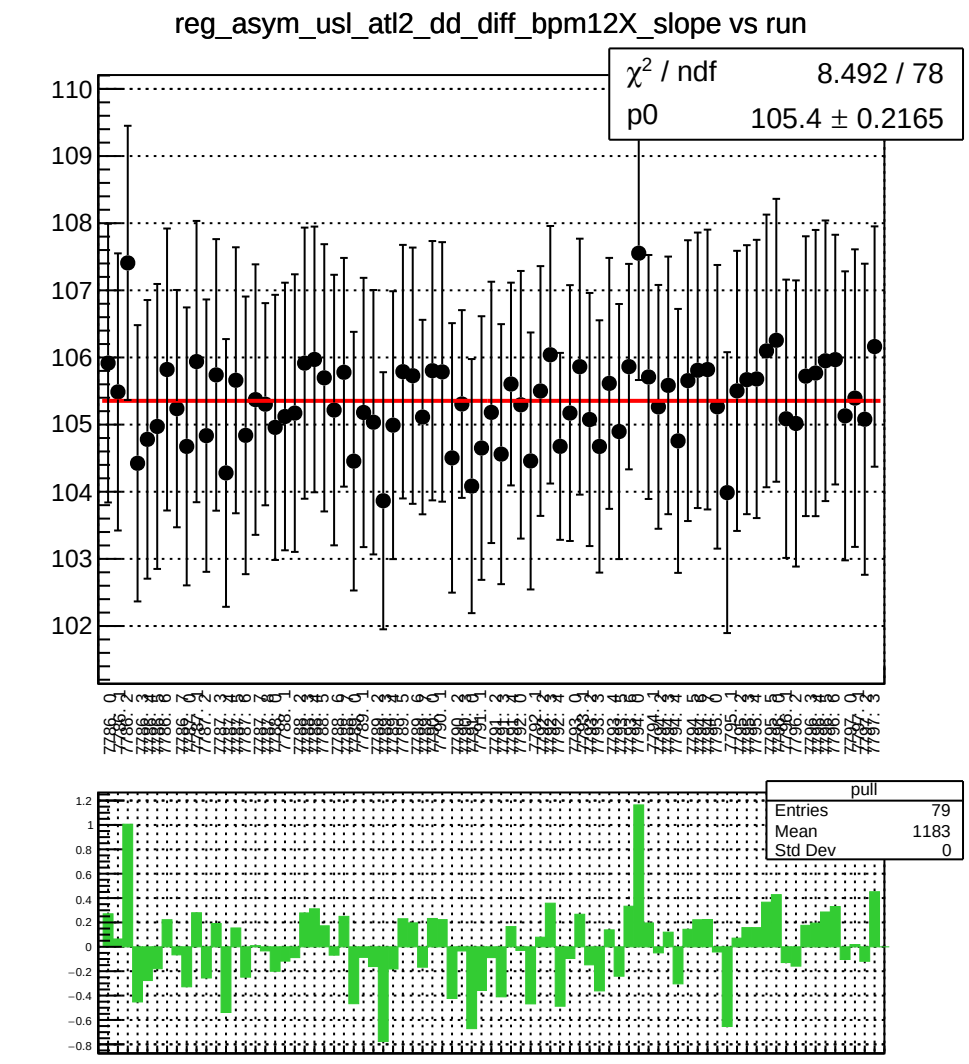

pull1D
Entries 79
Mean 0.0007623
Std Dev 0.2972

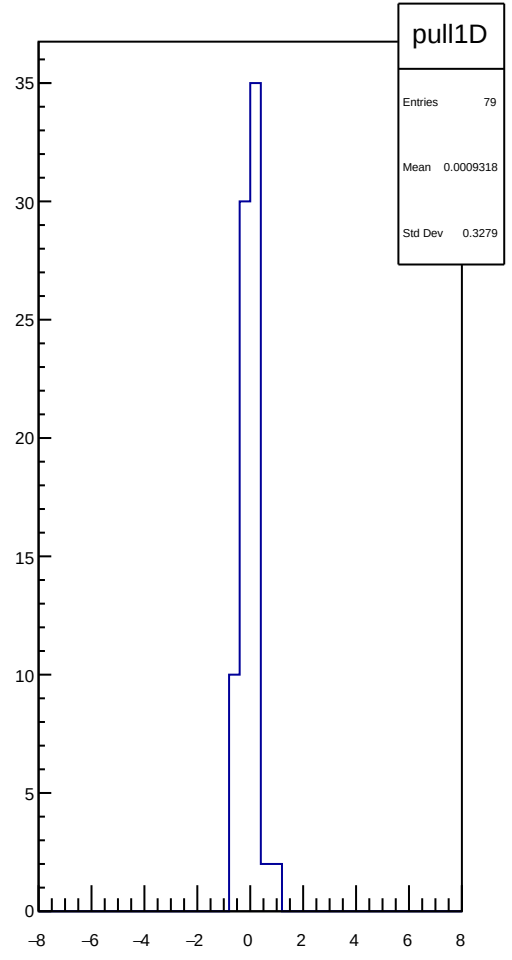

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.991 / 78
p0 −33.16 ± 6.147
pull
Entries 79
Mean 314.6
Std Dev 0
pull1D
Entries 79
Mean −0.00348
Std Dev 0.2513

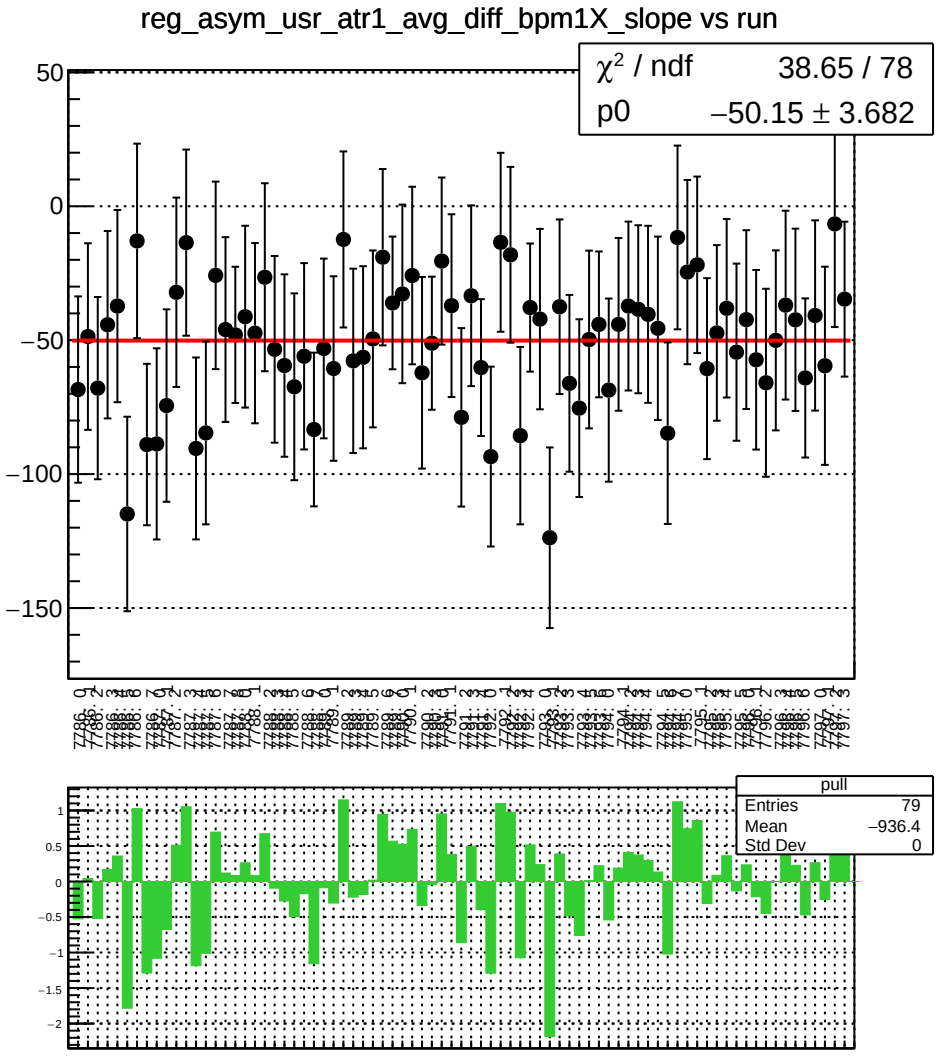

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.966 / 78
p0 −80.92 ± 5.267
pull
Entries 79
Mean −57.56
Std Dev 0
pull1D
Entries 79
Mean −0.000731
Std Dev 0.2969

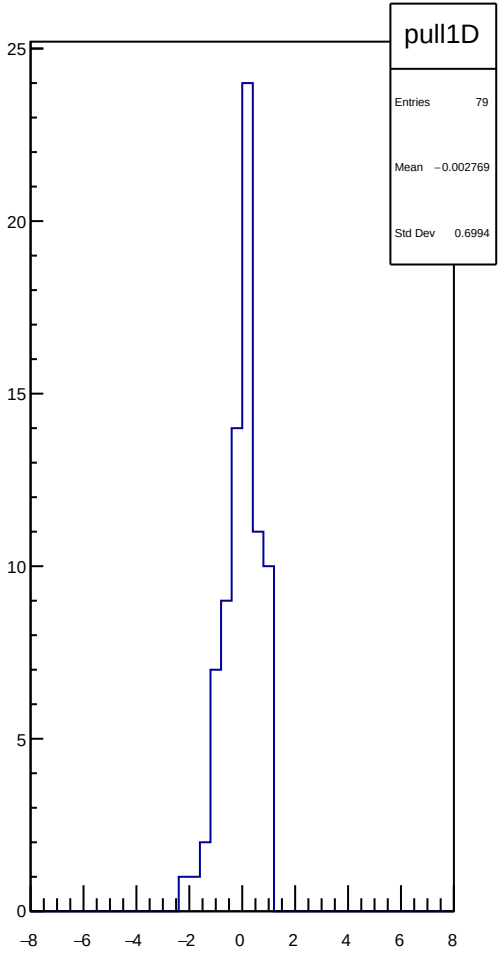

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.234 / 78
p0 −15.52 ± 6.968
pull
Entries 79
Mean 269
Std Dev 0

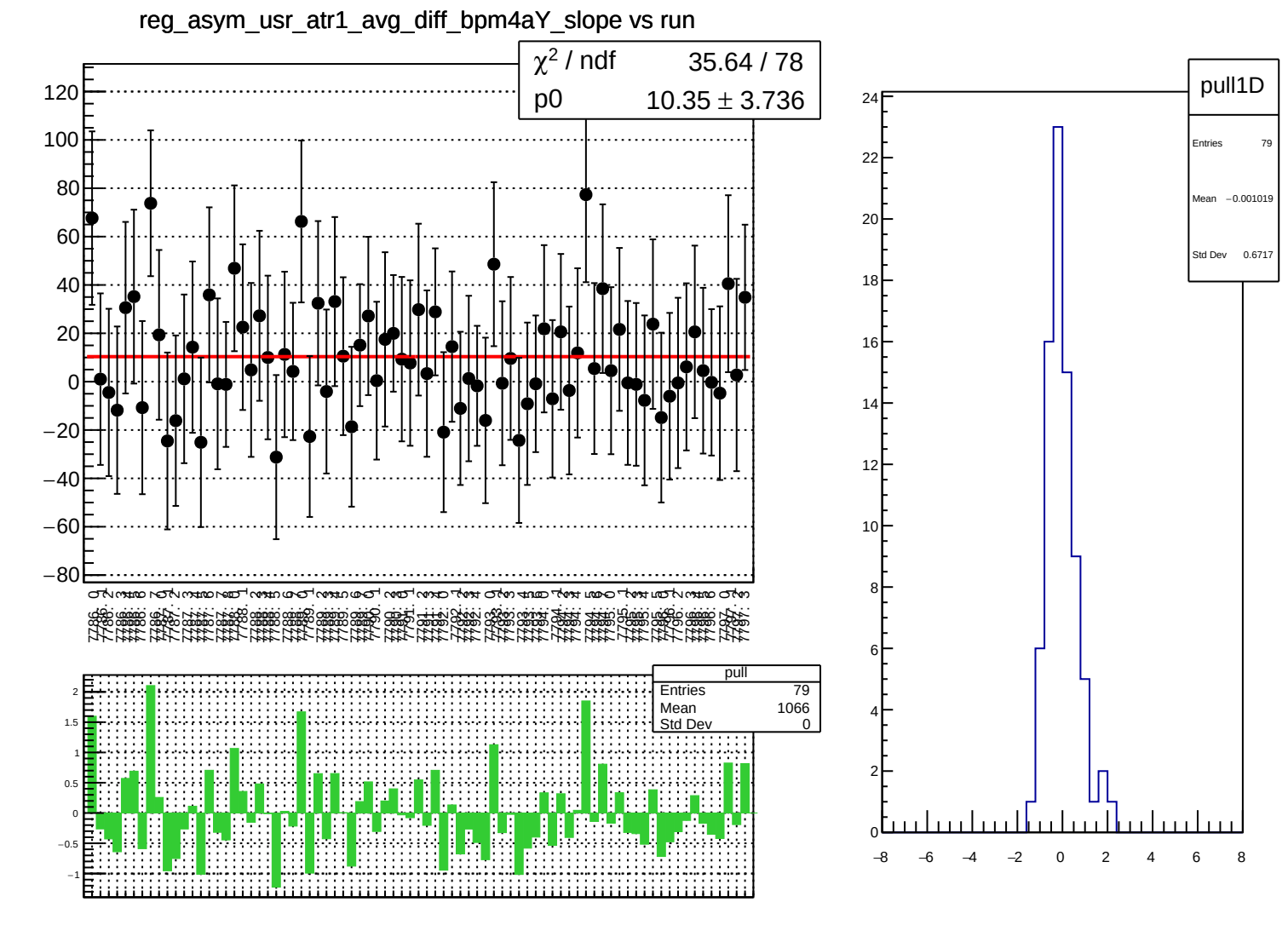

pull1D
Entries 79
Mean 0.003668
Std Dev 0.2574

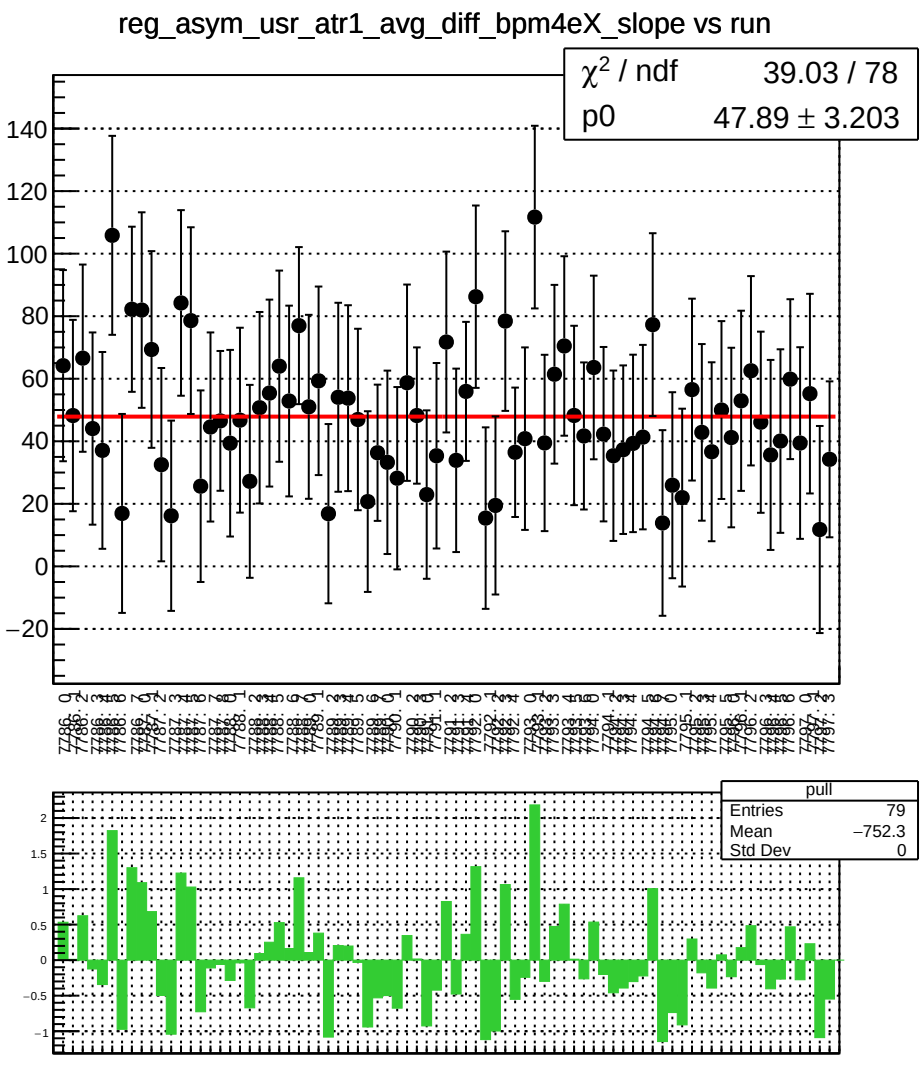

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 8.492 / 78
p0 105.4 ± 0.2165
pull
Entries 79
Mean 1183
Std Dev 0

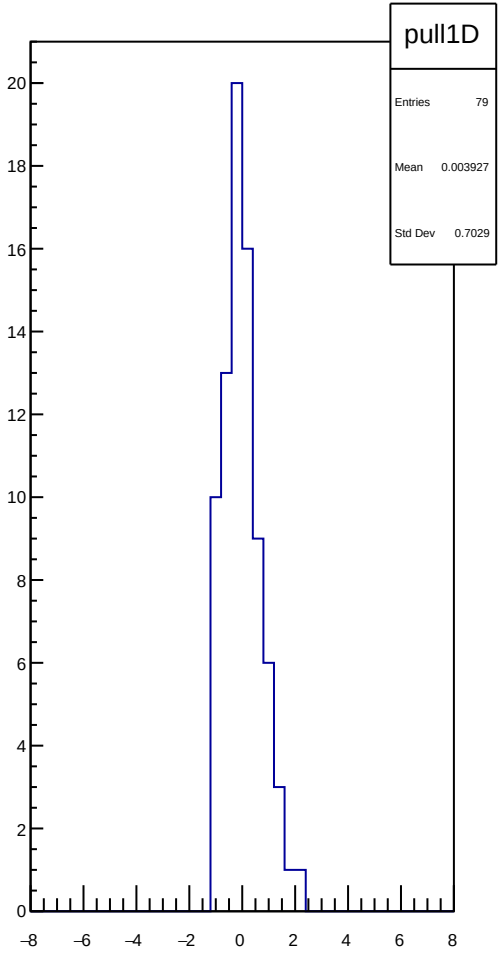

pull1D
Entries 79
Mean 0.0009318
Std Dev 0.3279

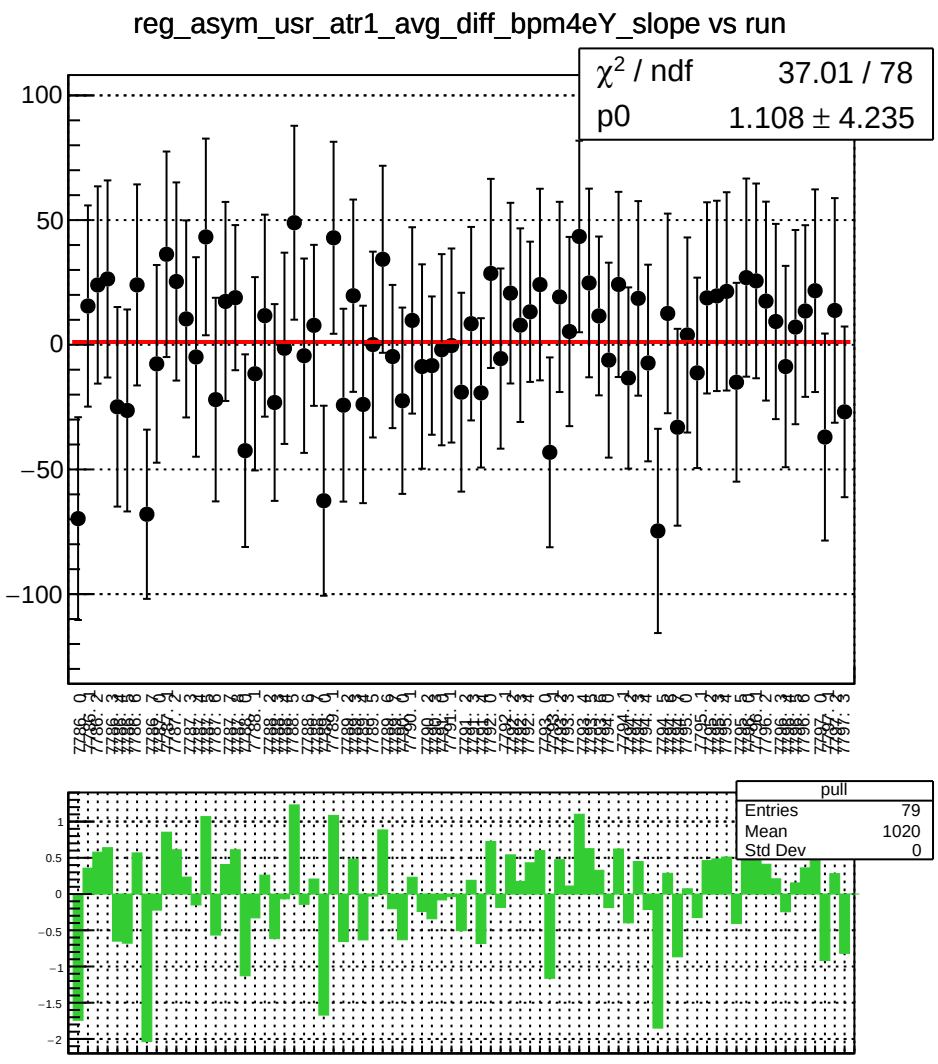

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 38.65 / 78
p0 −50.15 ± 3.682
pull
Entries 79
Mean −936.4
Std Dev 0

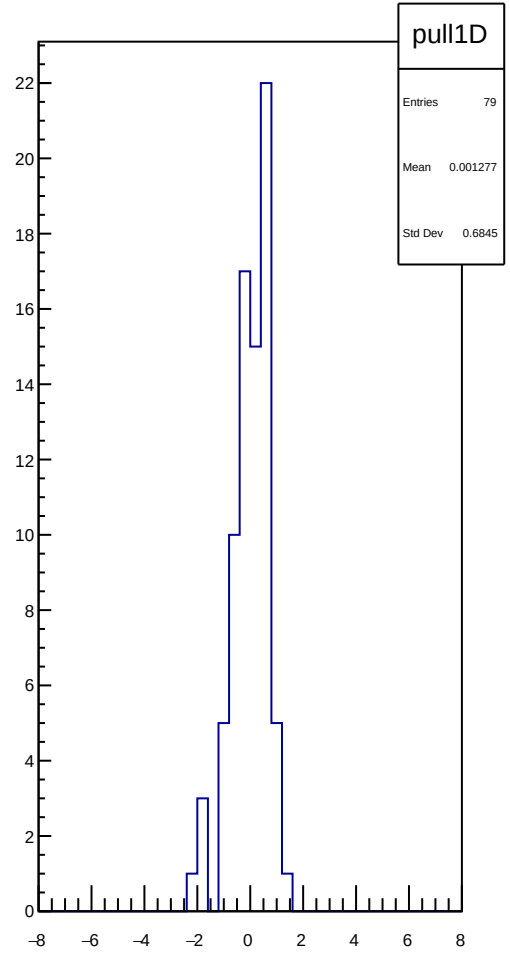

pull1D
Entries 79
Mean −0.002769
Std Dev 0.6994

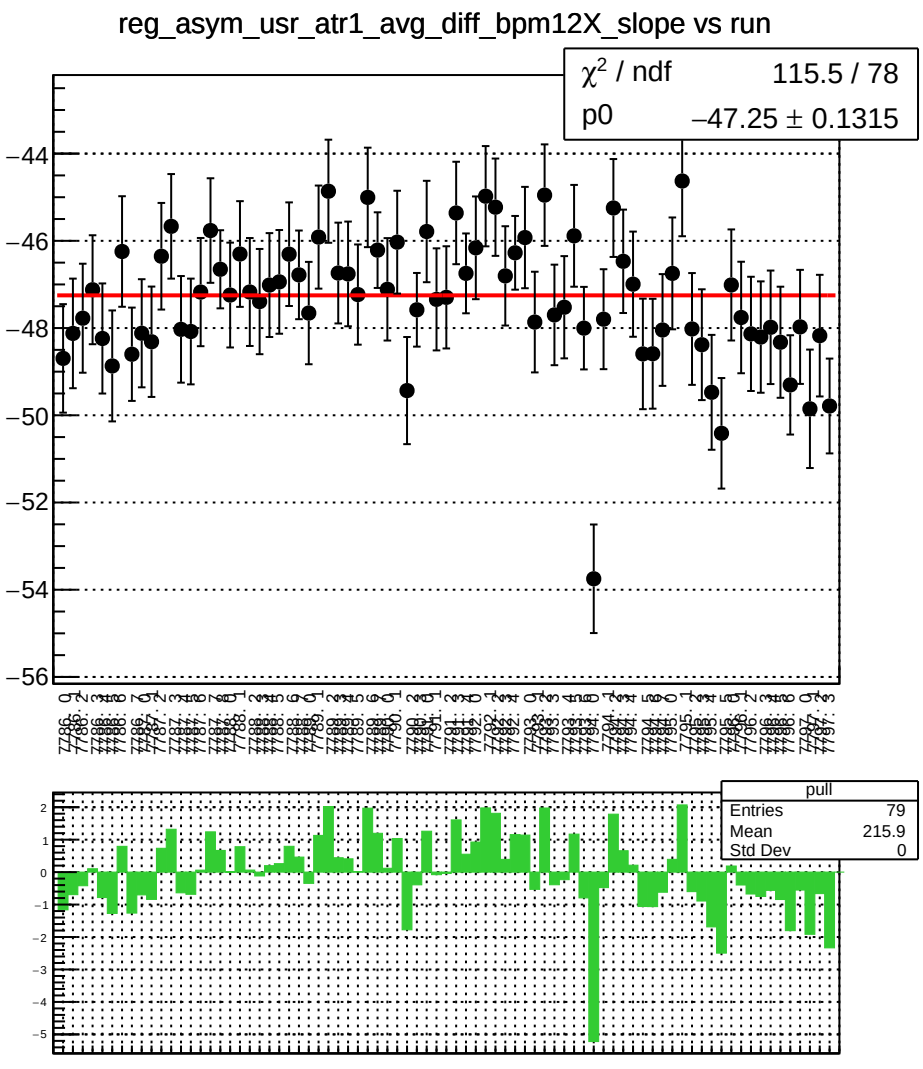

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.64 / 78
p0 10.35 ± 3.736
pull
Entries 79
Mean 1066
Std Dev 0
pull1D
Entries 79
Mean −0.001019
Std Dev 0.6717

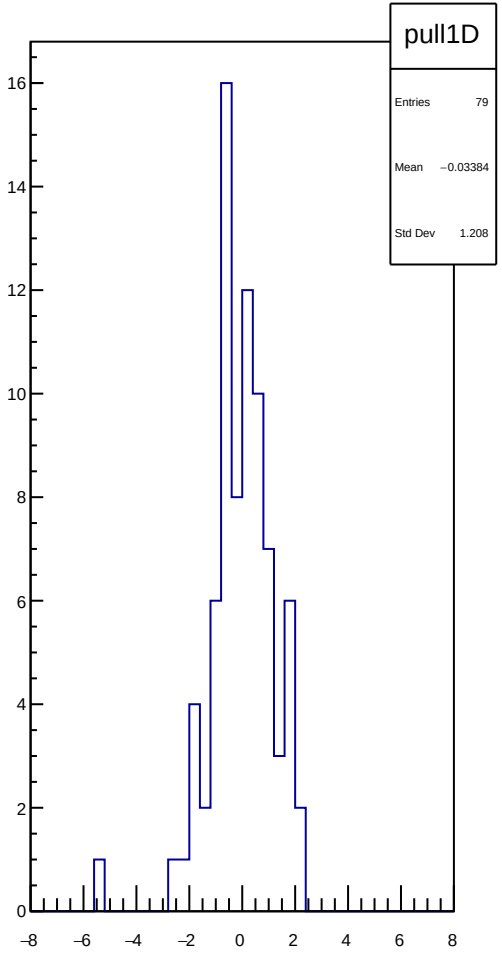

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.03 / 78
p0 47.89 ± 3.203
pull
Entries 79
Mean −752.3
Std Dev 0

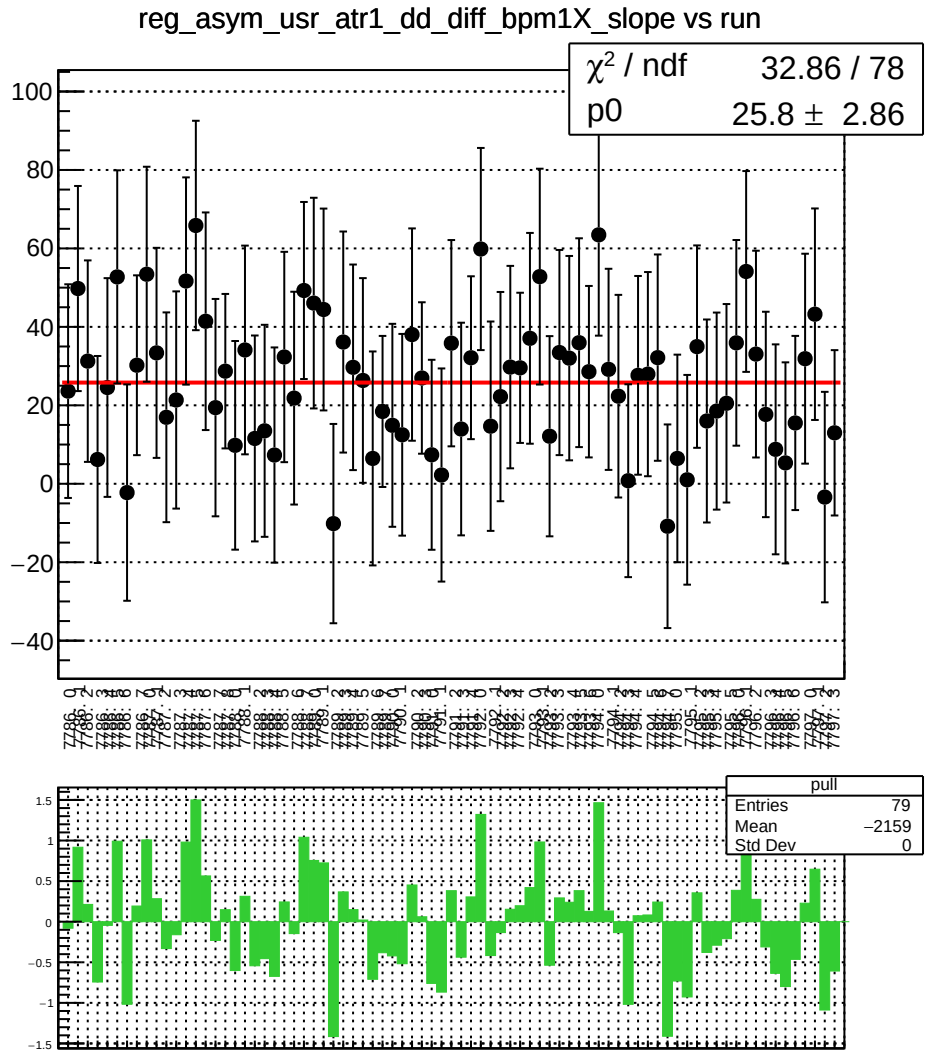

pull1D
Entries 79
Mean 0.003927
Std Dev 0.7029

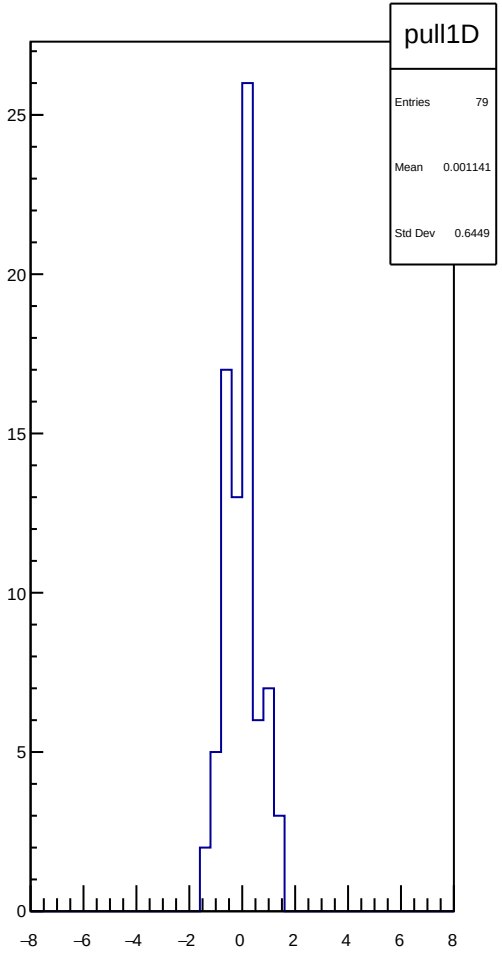

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.01 / 78
p0 1.108 ± 4.235
pull
Entries 79
Mean 1020
Std Dev 0

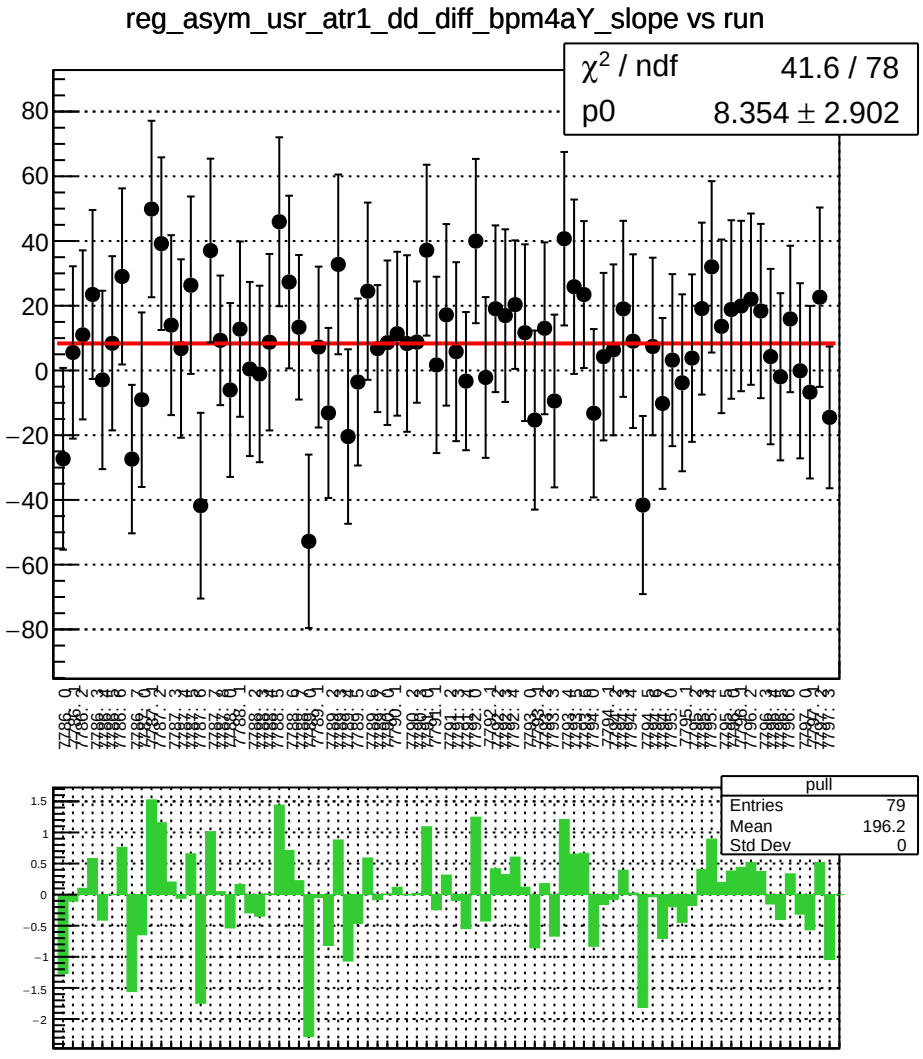

pull1D
Entries 79
Mean 0.001277
Std Dev 0.6845

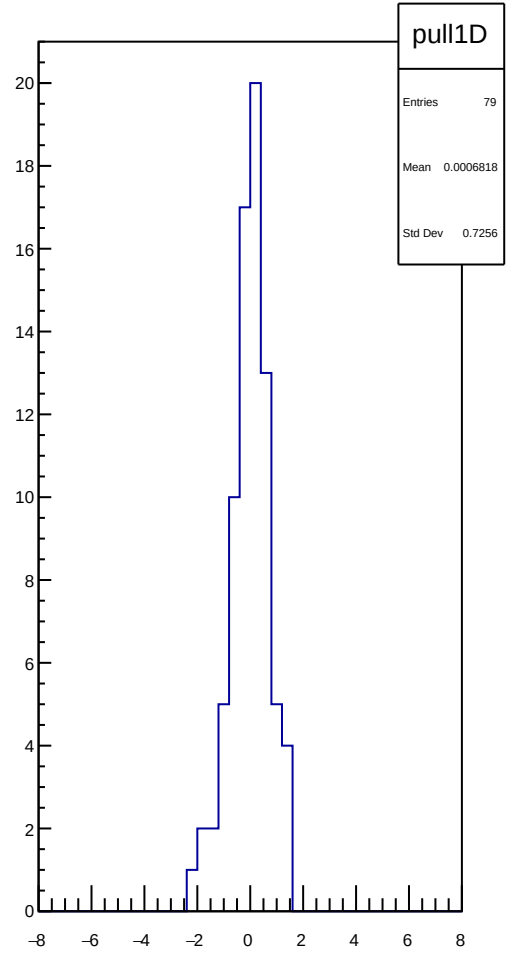

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 115.5 / 78
p0 −47.25 ± 0.1315
pull
Entries 79
Mean 215.9
Std Dev 0

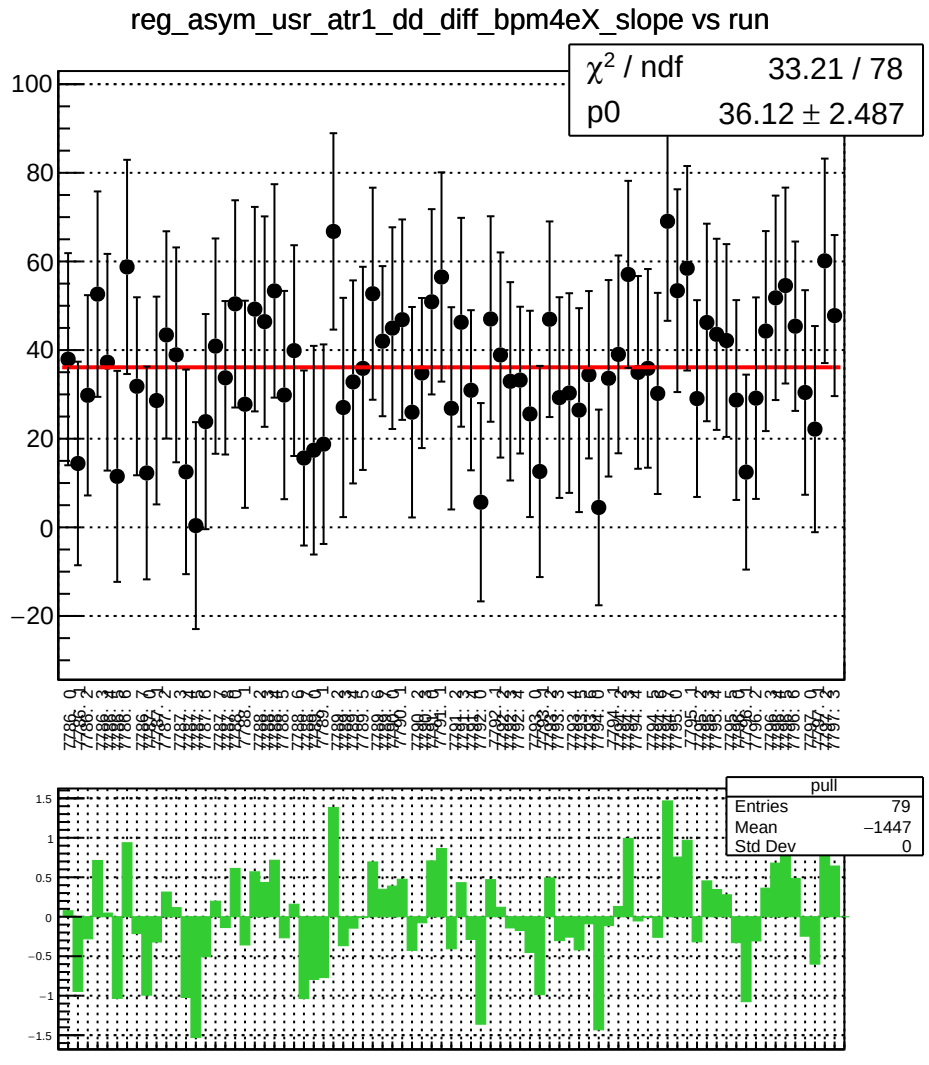

pull1D
Entries 79
Mean −0.03384
Std Dev 1.208

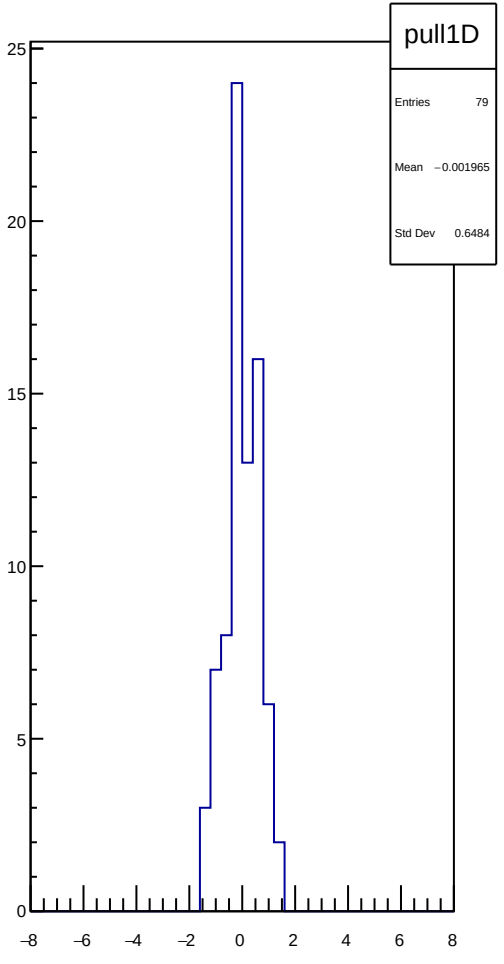

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 32.86 / 78
p0 25.8 ± 2.86
pull
Entries 79
Mean −2159
Std Dev 0

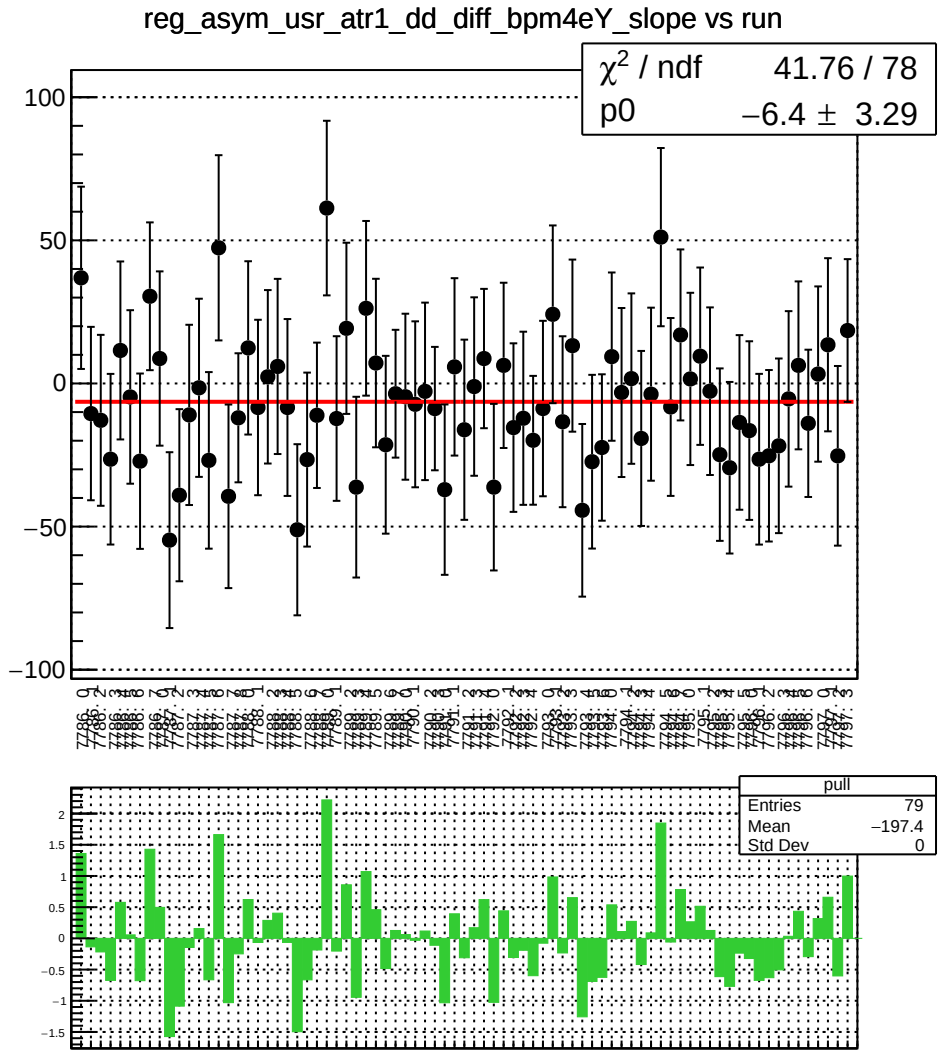

pull1D
Entries 79
Mean 0.001141
Std Dev 0.6449

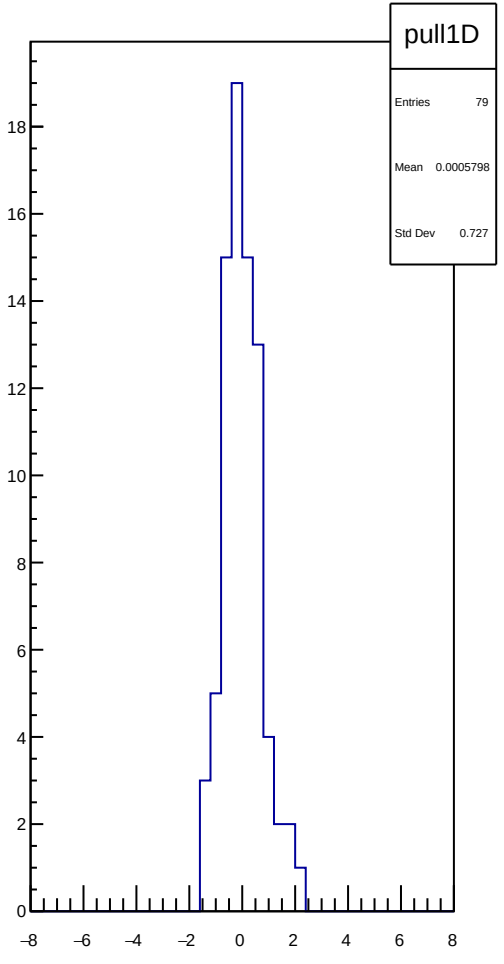

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 41.6 / 78
p0 8.354 ± 2.902
pull
Entries 79
Mean 196.2
Std Dev 0

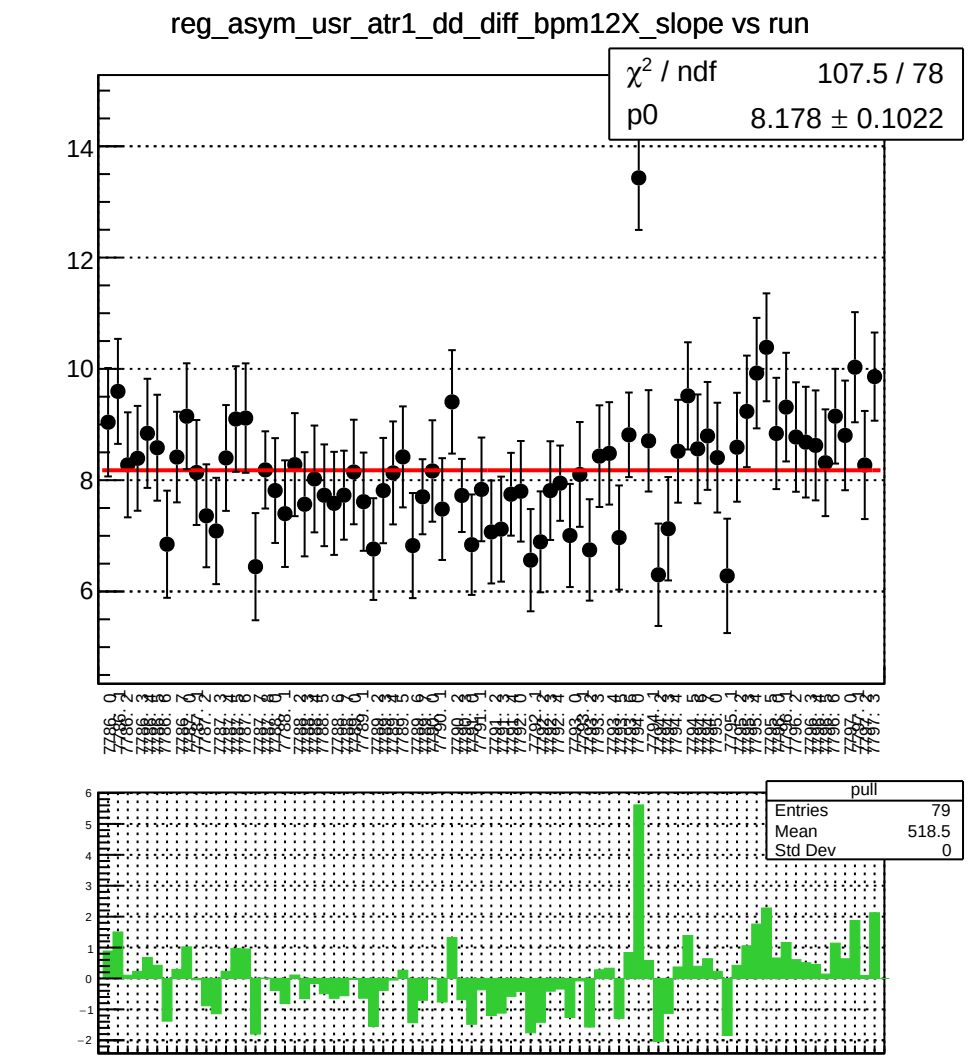

pull1D
Entries 79
Mean 0.0006818
Std Dev 0.7256

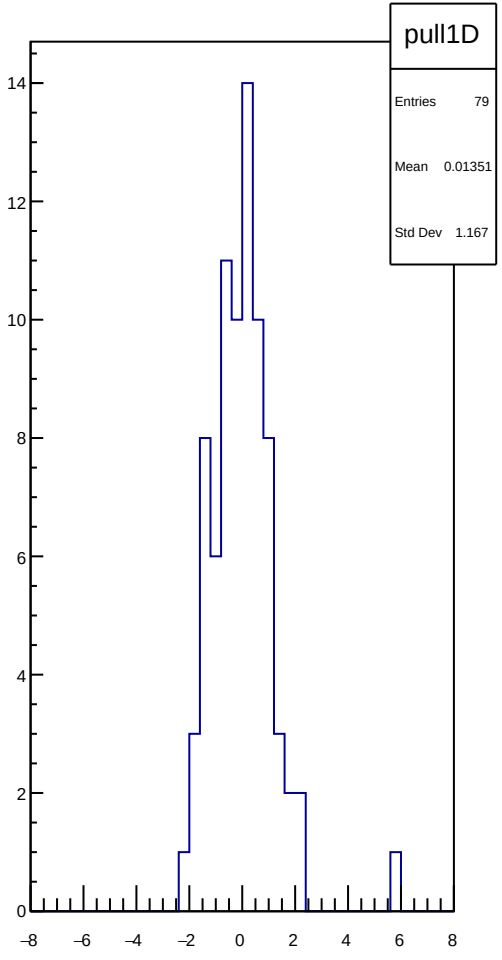

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.21 / 78
p0 36.12 ± 2.487
pull
Entries 79
Mean −1447
Std Dev 0

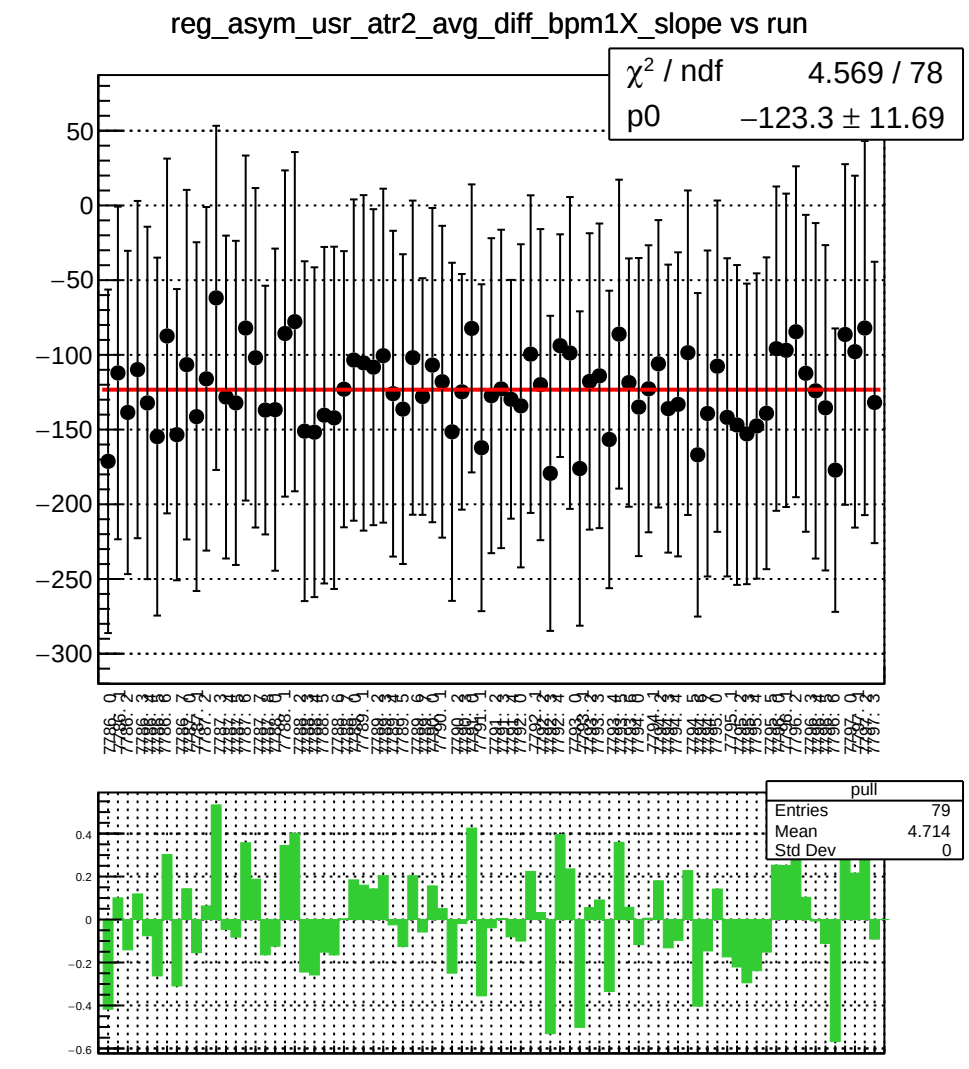

pull1D
Entries 79
Mean −0.001965
Std Dev 0.6484

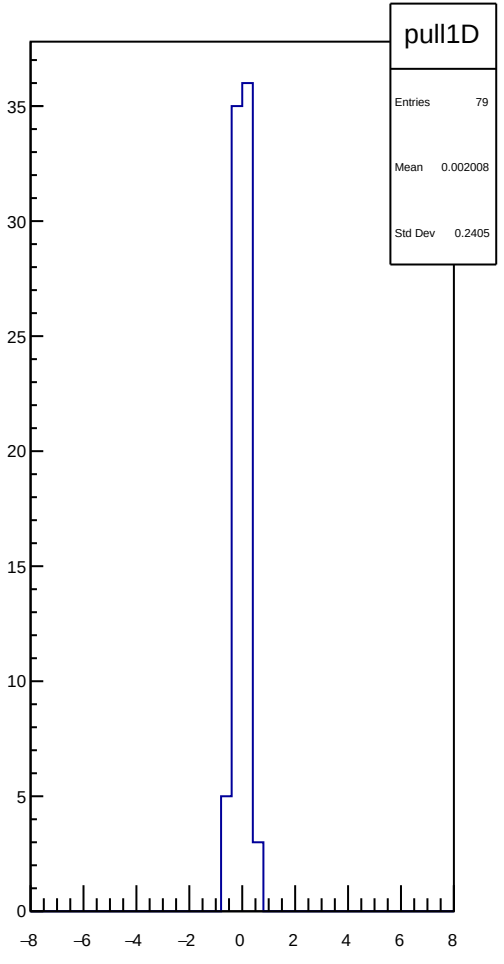

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.76 / 78
p0 −6.4 ± 3.29
pull
Entries 79
Mean −197.4
Std Dev 0

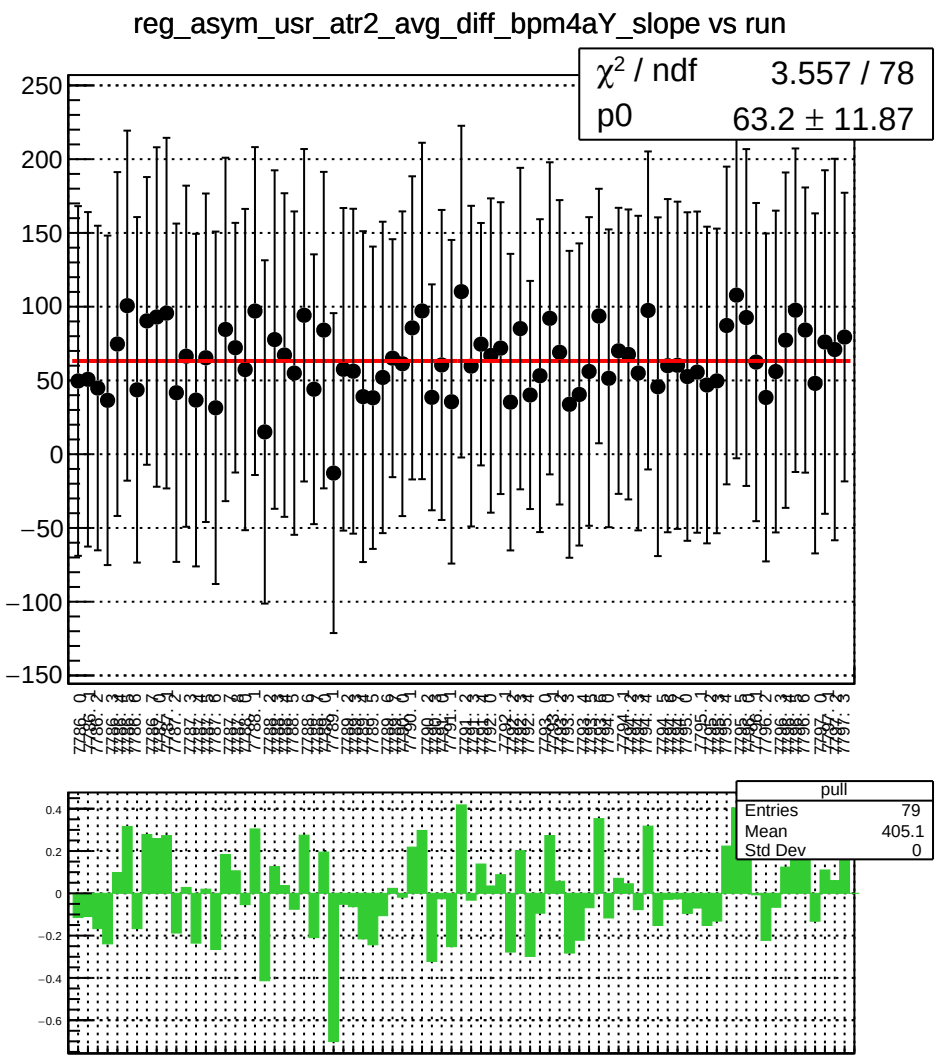

pull1D
Entries 79
Mean 0.0005798
Std Dev 0.727

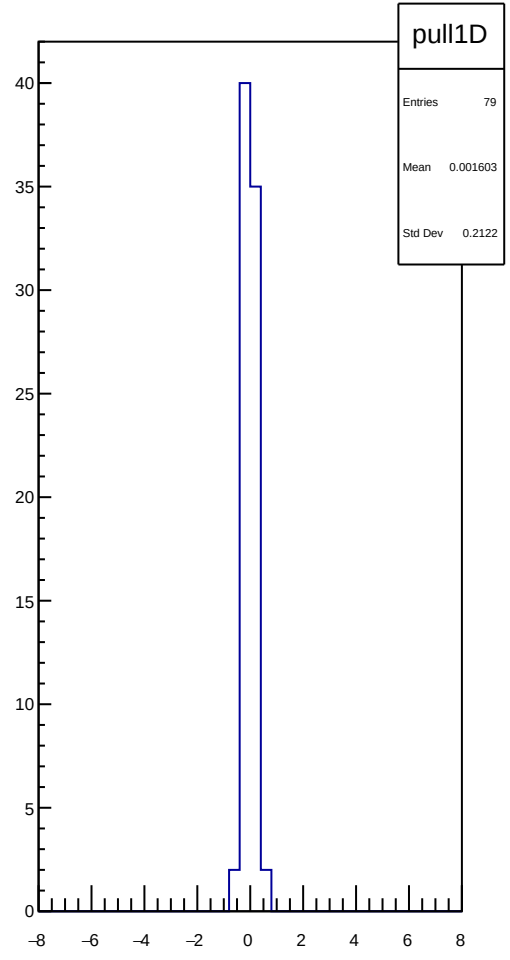

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 107.5 / 78
p0 8.178 ± 0.1022
pull
Entries 79
Mean 518.5
Std Dev 0

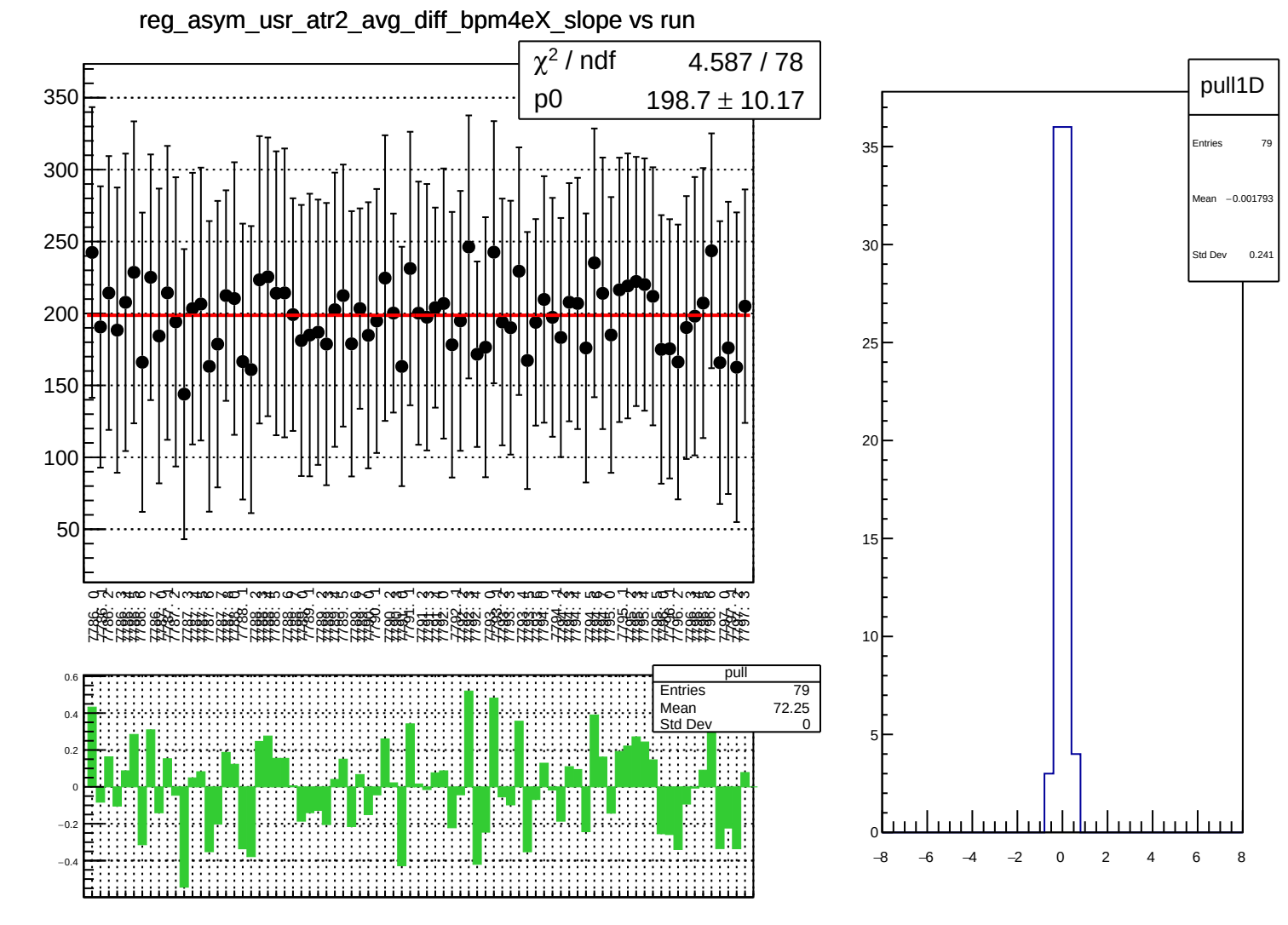

pull1D
Entries 79
Mean 0.01351
Std Dev 1.167

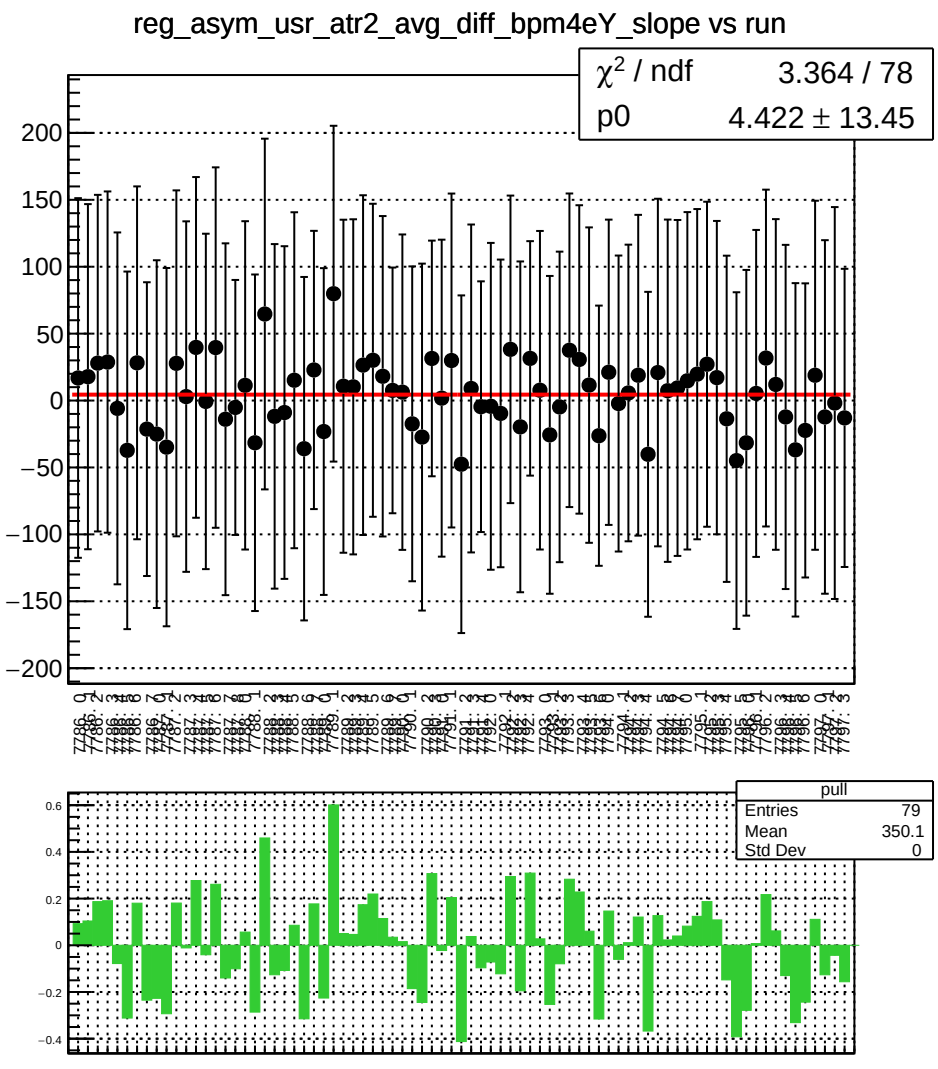

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.569 / 78
p0 −123.3 ± 11.69
pull
Entries 79
Mean 4.714
Std Dev 0

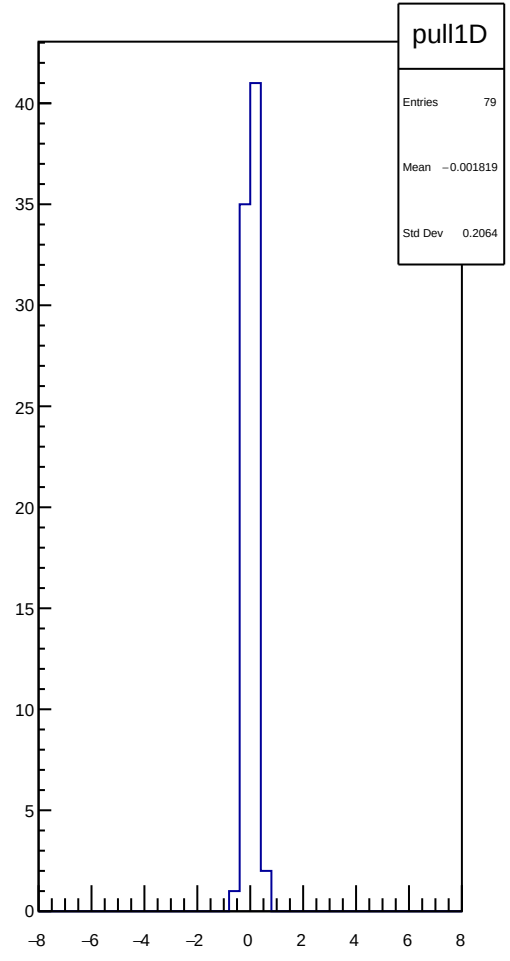

pull1D
Entries 79
Mean 0.002008
Std Dev 0.2405

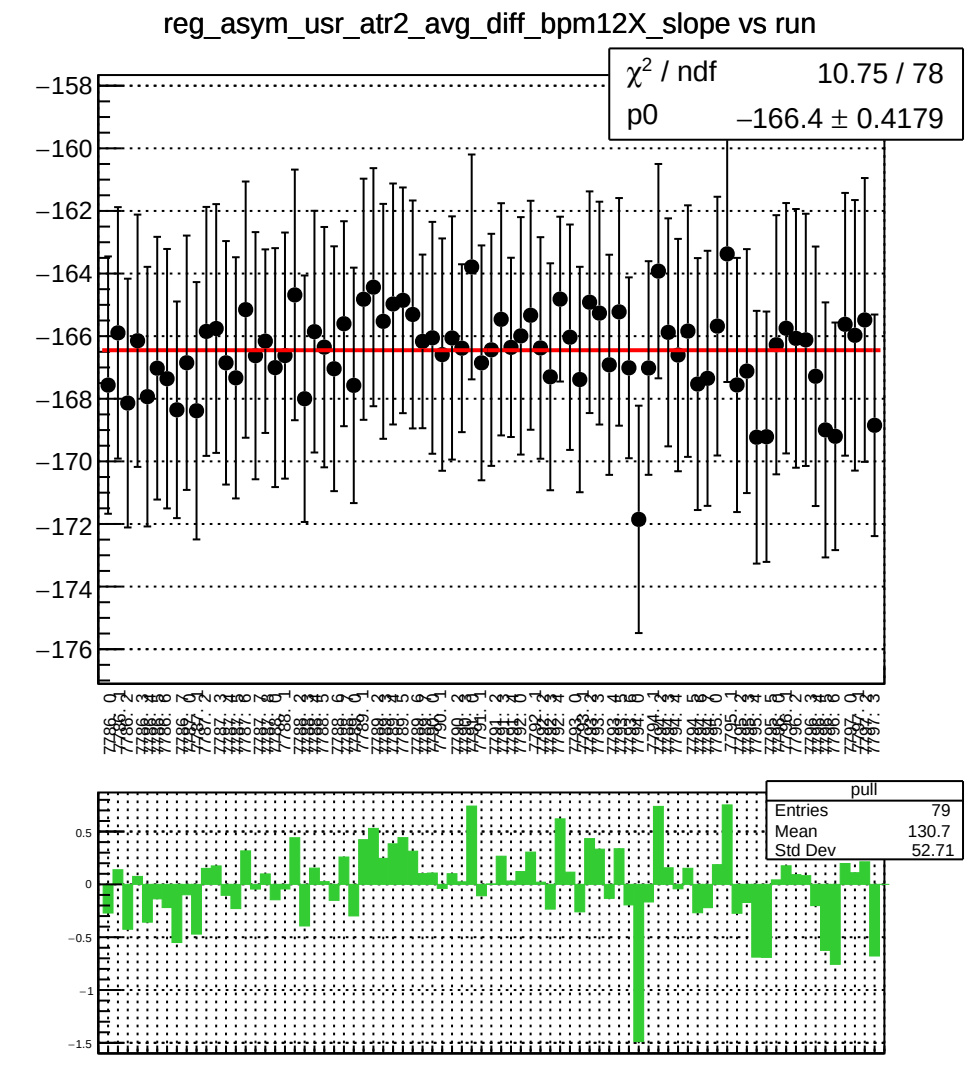

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.557 / 78
p0 63.2 ± 11.87
pull
Entries 79
Mean 405.1
Std Dev 0

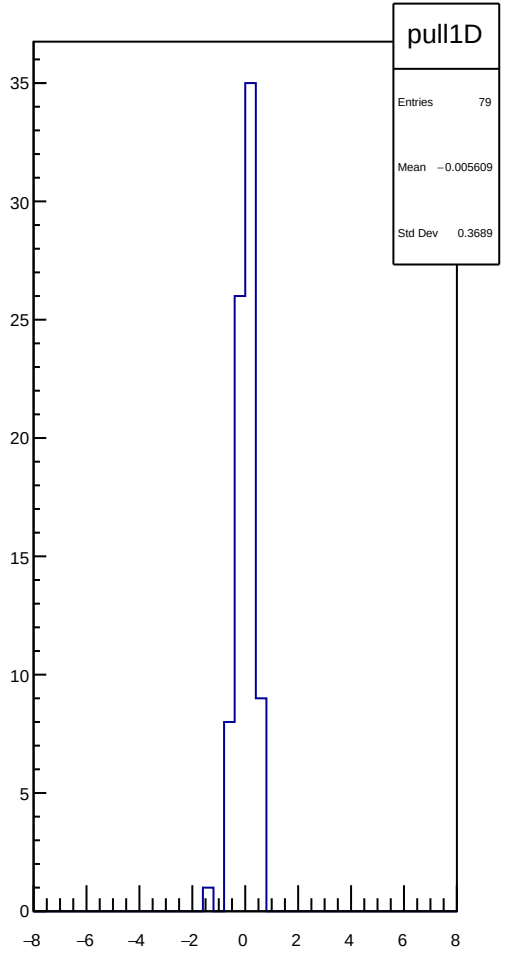

pull1D
Entries 79
Mean 0.001603
Std Dev 0.2122

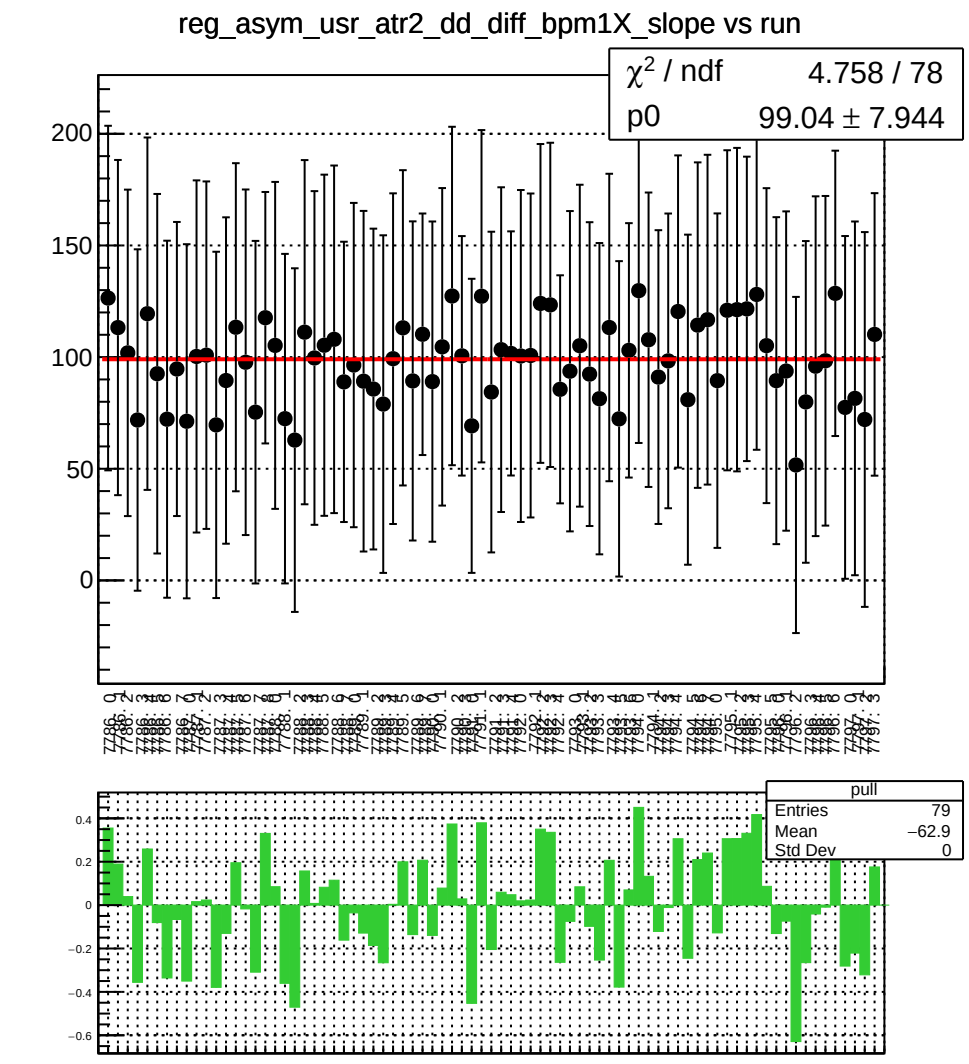

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.587 / 78
p0 198.7 ± 10.17
pull
Entries 79
Mean 72.25
Std Dev 0
pull1D
Entries 79
Mean −0.001793
Std Dev 0.241

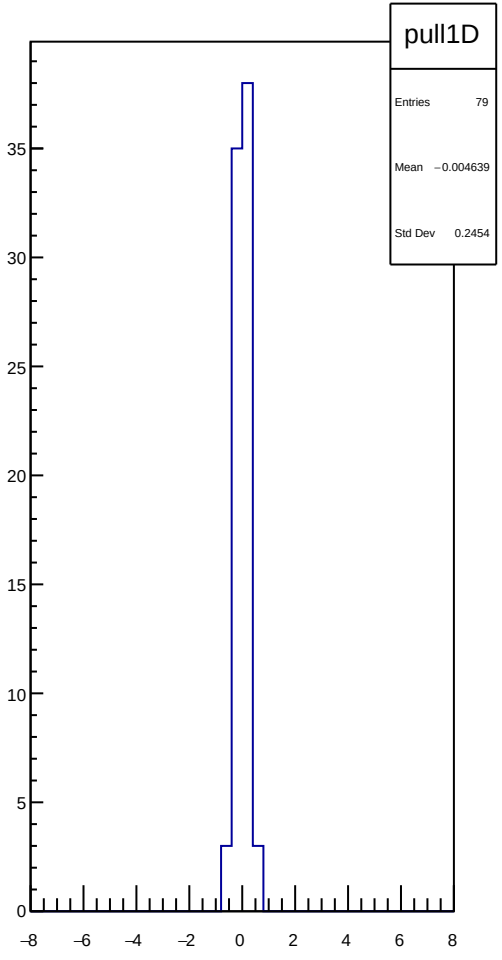

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.364 / 78
p0 4.422 ± 13.45
pull
Entries 79
Mean 350.1
Std Dev 0

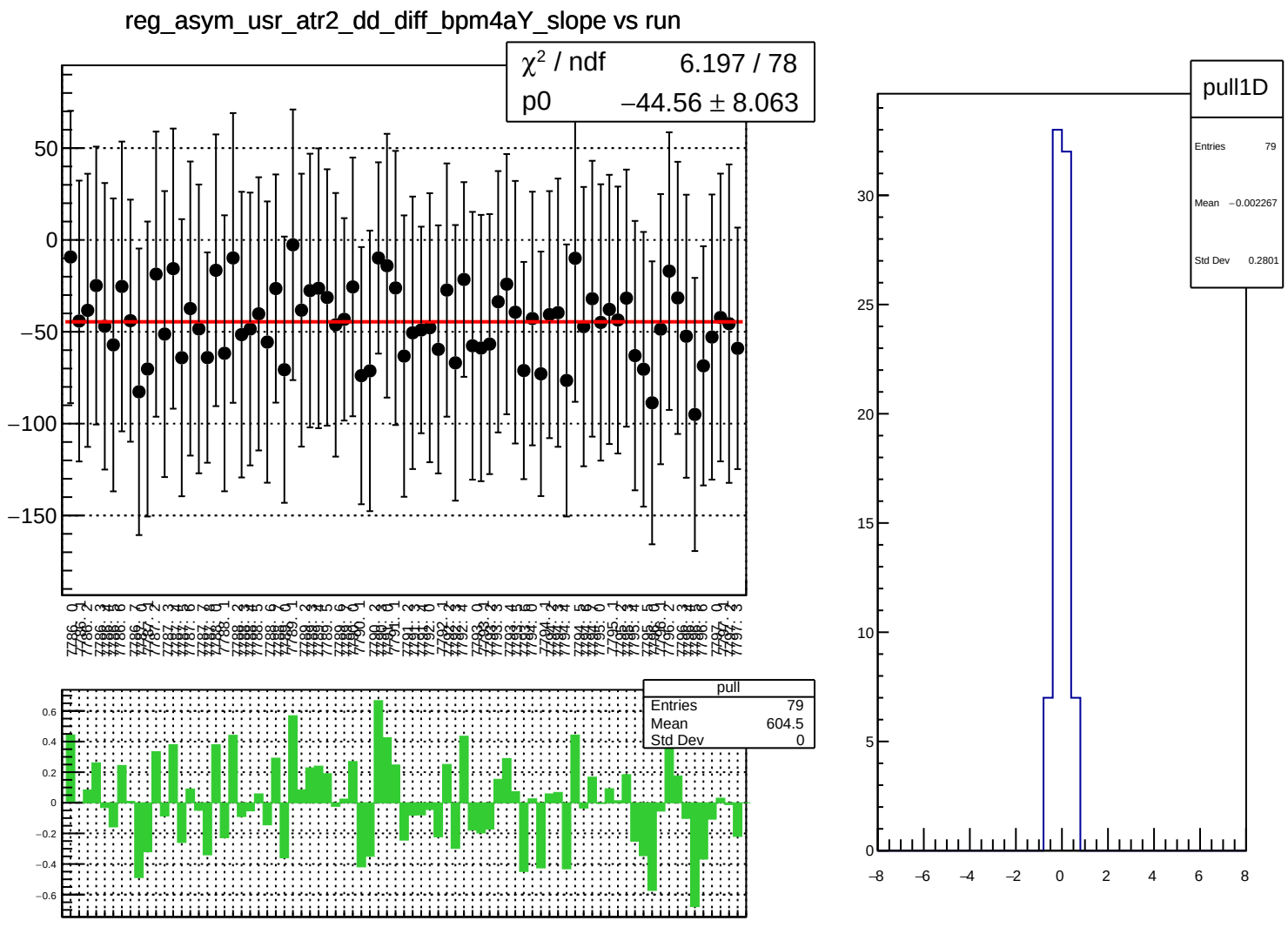

pull1D
Entries 79
Mean −0.001819
Std Dev 0.2064

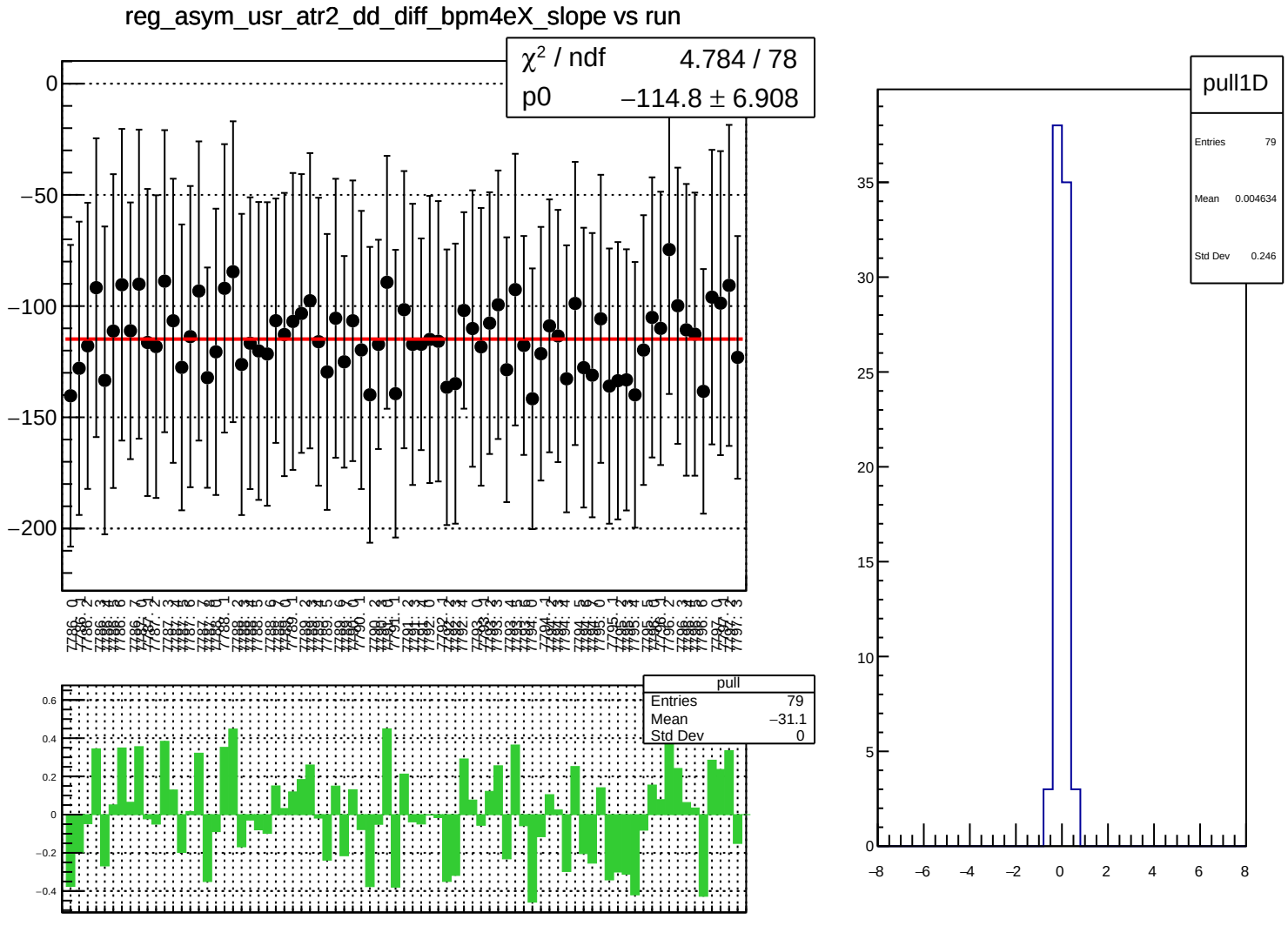

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 10.75 / 78
p0 −166.4 ± 0.4179
pull
Entries 79
Mean 130.7
Std Dev 52.71

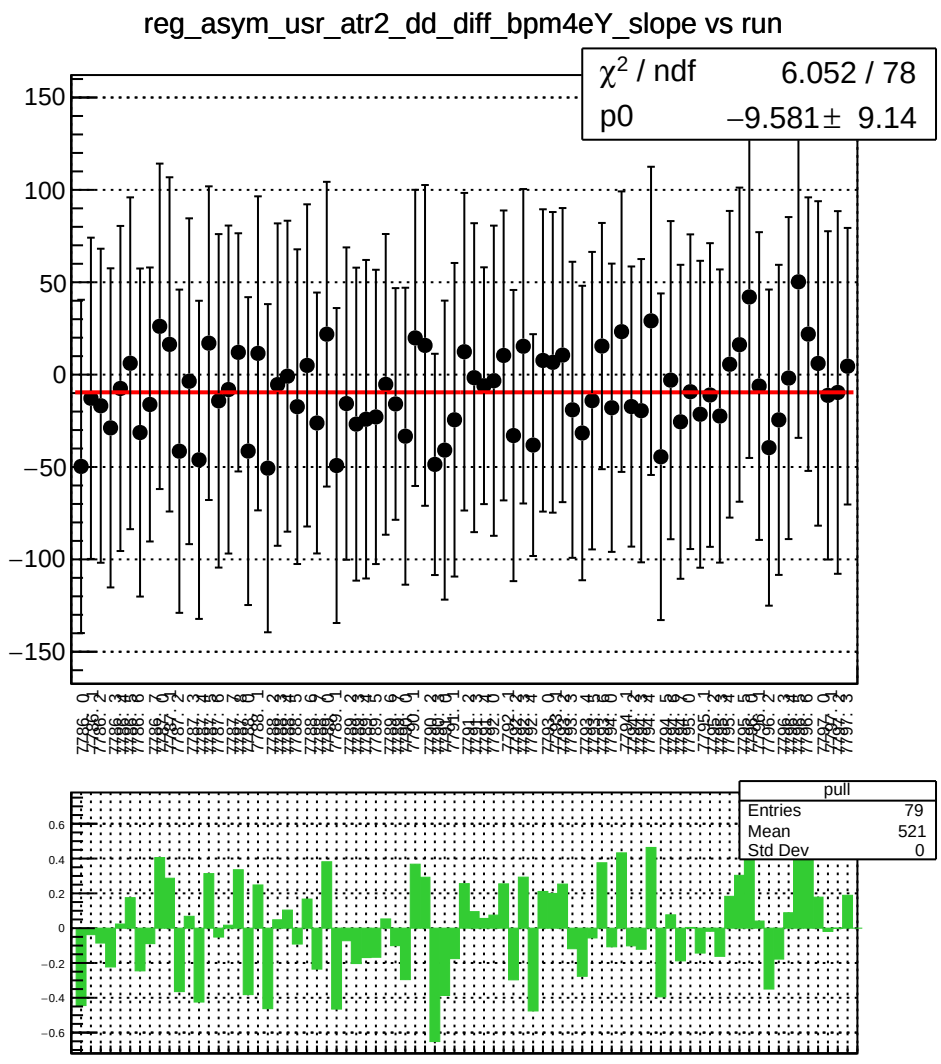

pull1D
Entries 79
Mean −0.005609
Std Dev 0.3689

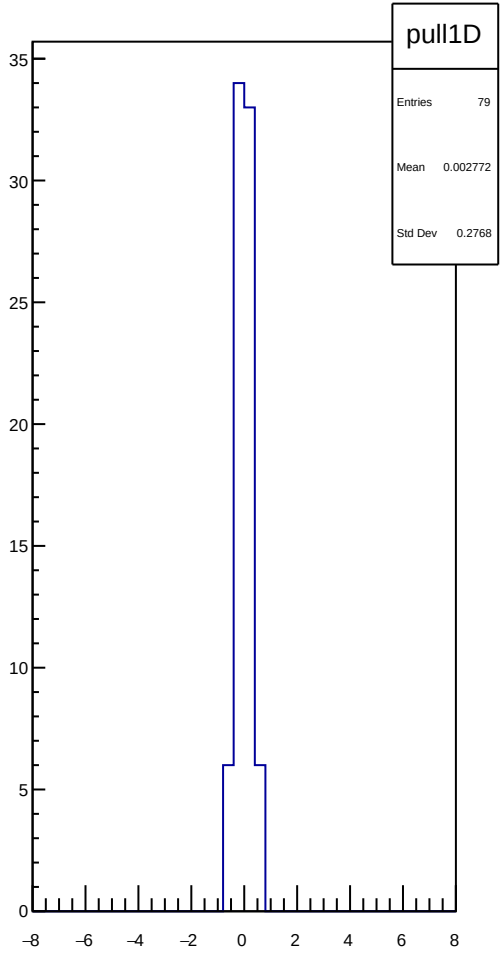

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 4.758 / 78
p0 99.04 ± 7.944
200
150
100
50
0
pull
Entries 79
Mean −62.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

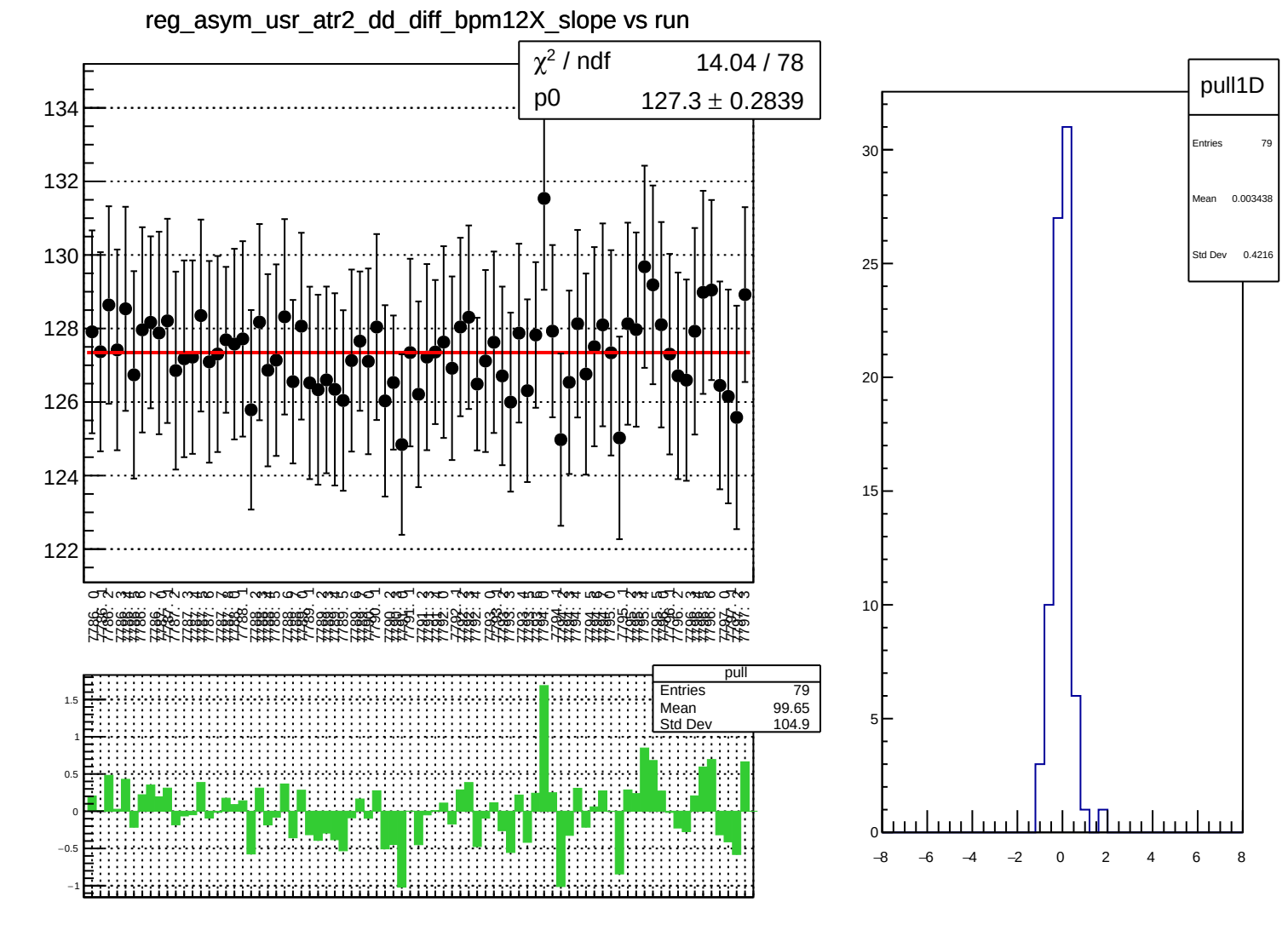

pull1D
Entries 79
Mean −0.004639
Std Dev 0.2454
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

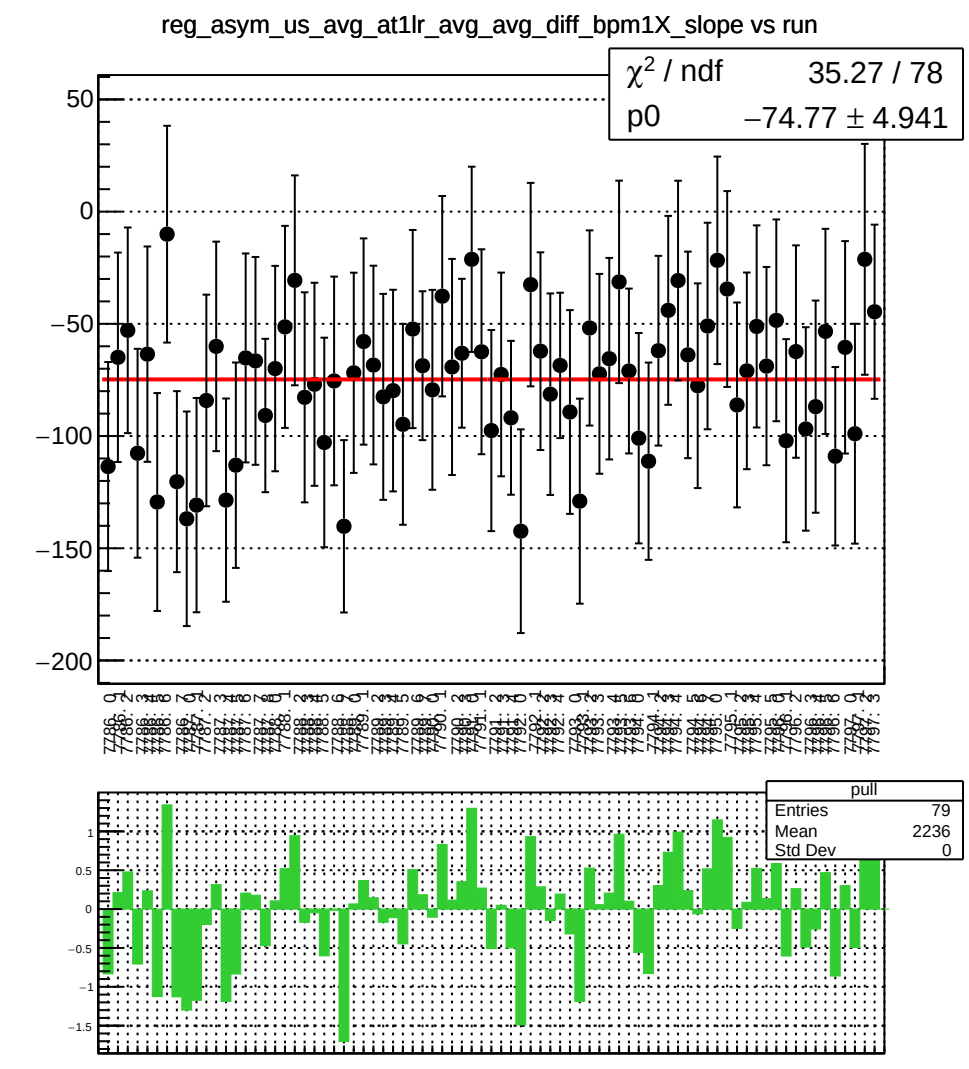

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.197 / 78
p0 −44.56 ± 8.063
50
0
−50
−100
−150
pull
Entries 79
Mean 604.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 79
Mean −0.002267
Std Dev 0.2801
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

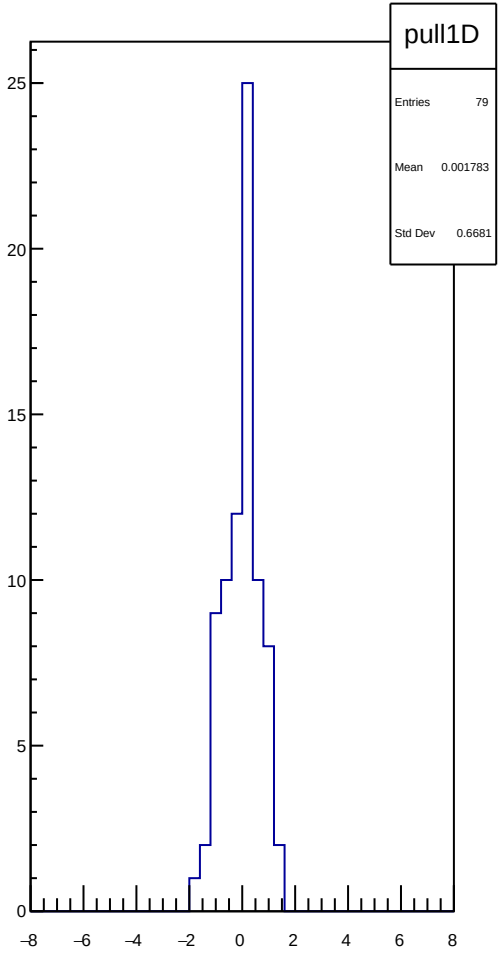

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.784 / 78
p0 −114.8 ± 6.908
0
−50
−100
−150
−200
pull
Entries 79
Mean −31.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 79
Mean 0.004634
Std Dev 0.246
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

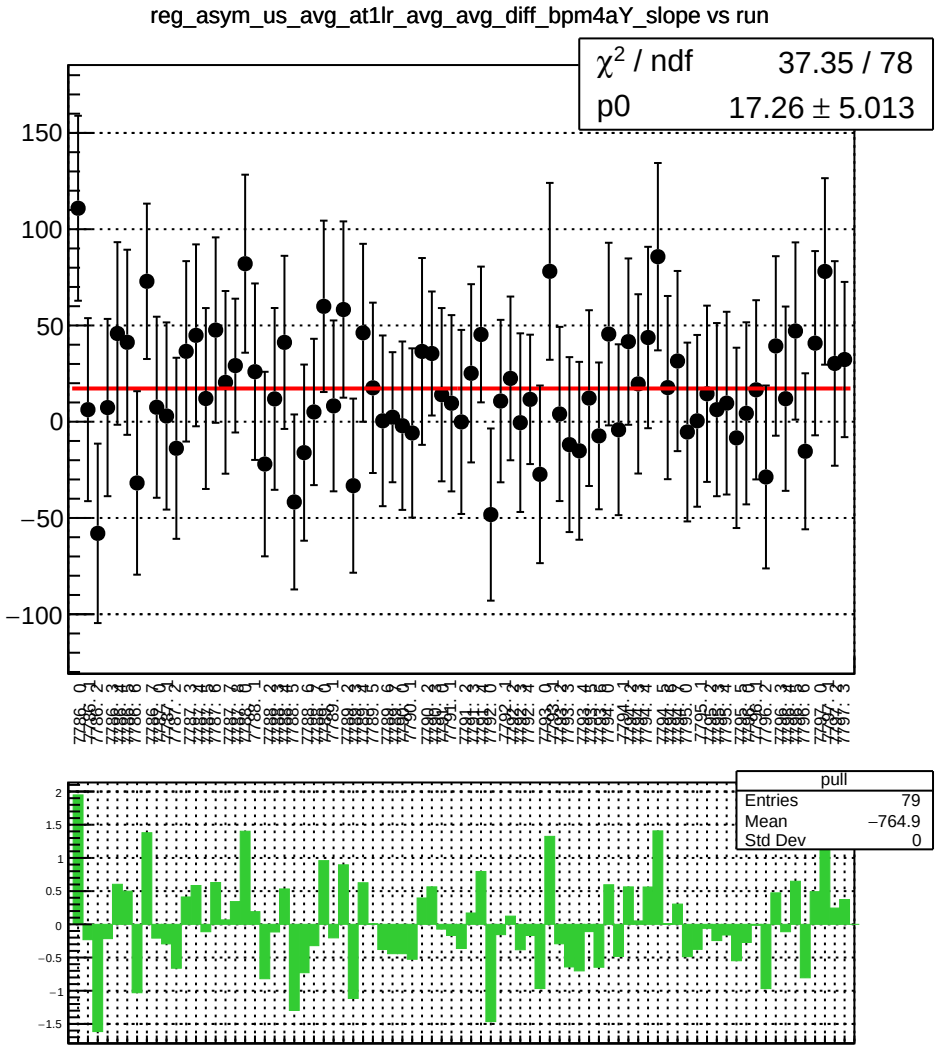

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.052 / 78
p0 −9.581 ± 9.14
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean 521
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

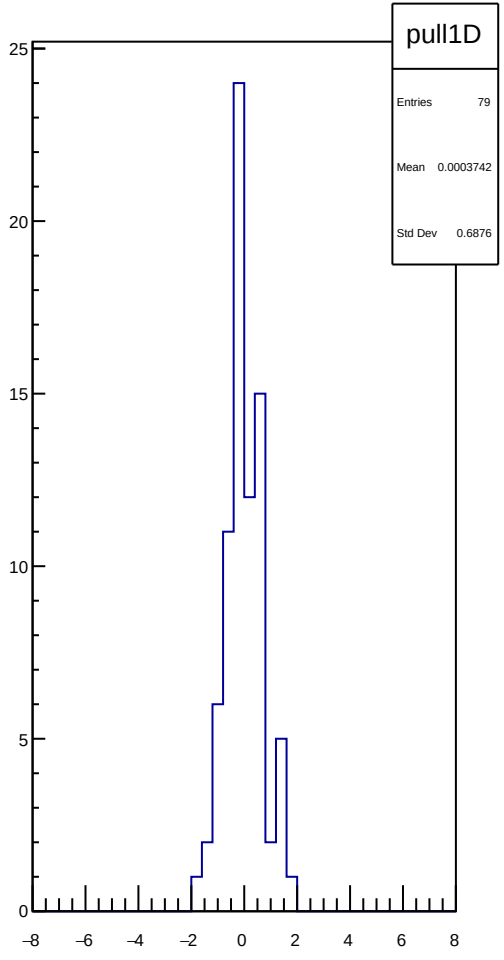

pull1D
Entries 79
Mean 0.002772
Std Dev 0.2768
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

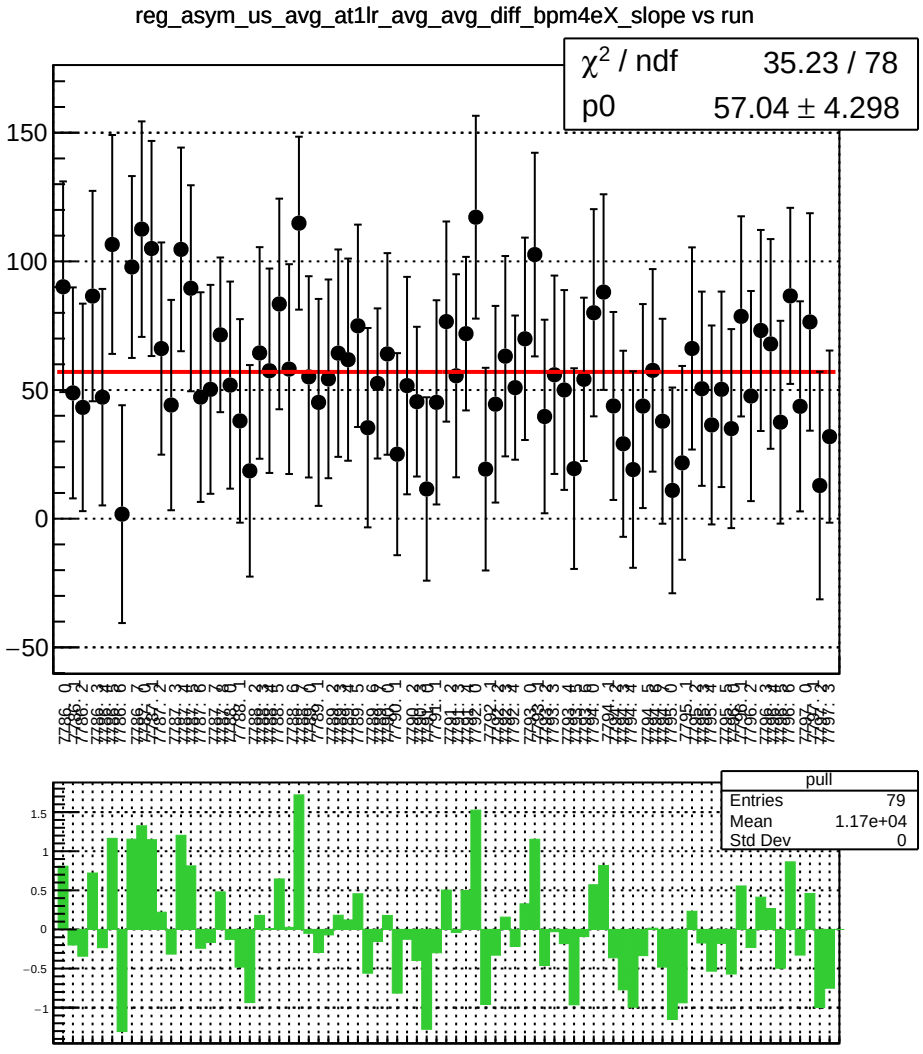

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 14.04 / 78
p0 127.3 ± 0.2839
134
132
130
128
126
124
122
pull
Entries 79
Mean 99.65
Std Dev 104.9
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 79
Mean 0.003438
Std Dev 0.4216
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

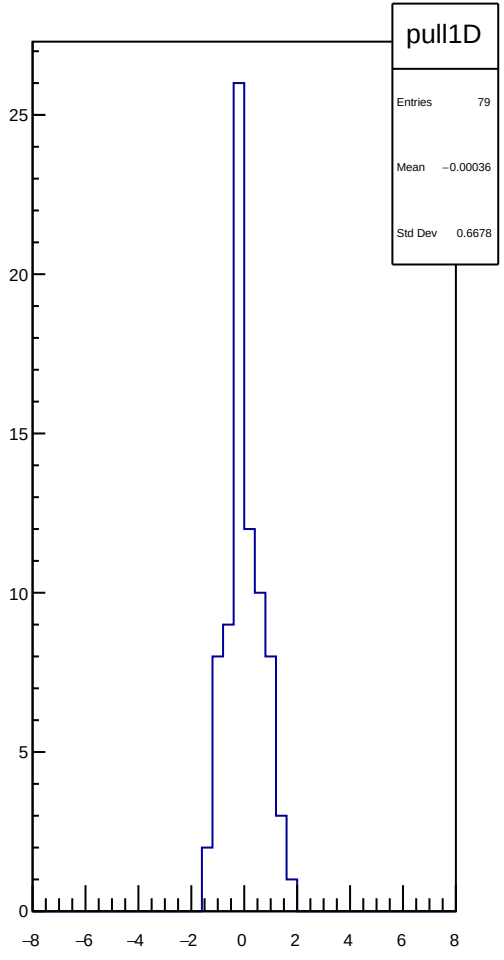

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 35.27 / 78
p0 −74.77 ± 4.941
pull
Entries 79
Mean 2236
Std Dev 0

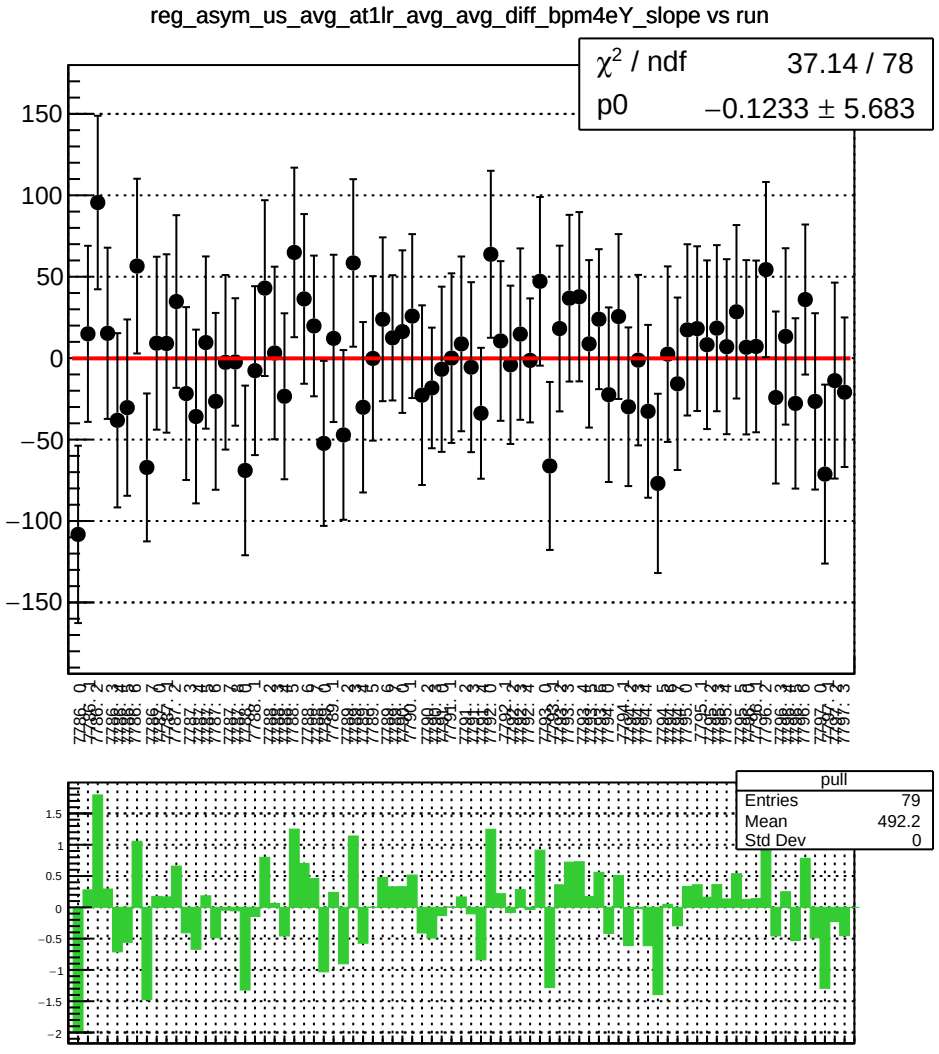

pull1D
Entries 79
Mean 0.001783
Std Dev 0.6681

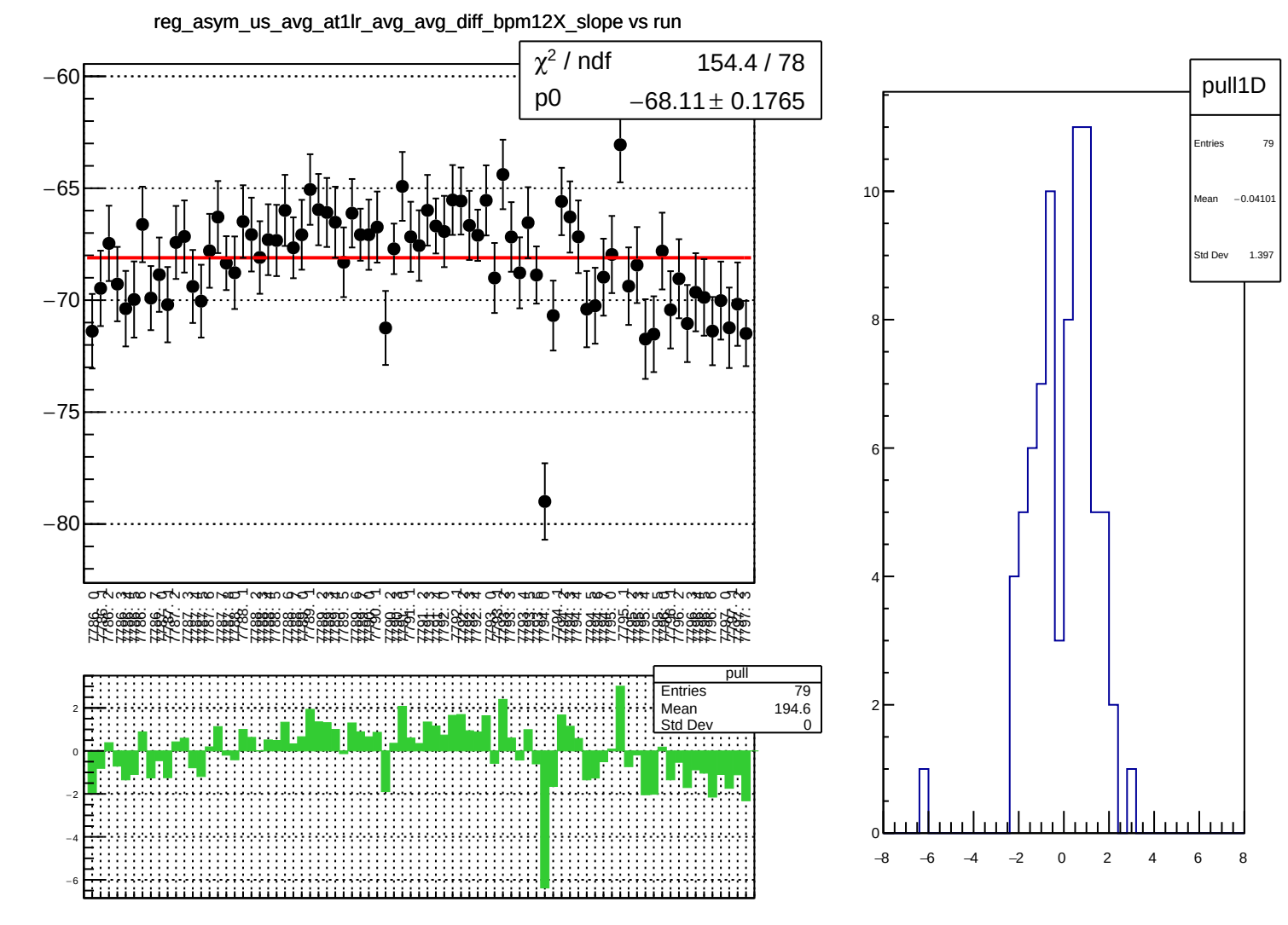

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.35 / 78
p0 17.26 ± 5.013
150
100
50
0
−50
−100
pull
Entries 79
Mean −764.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

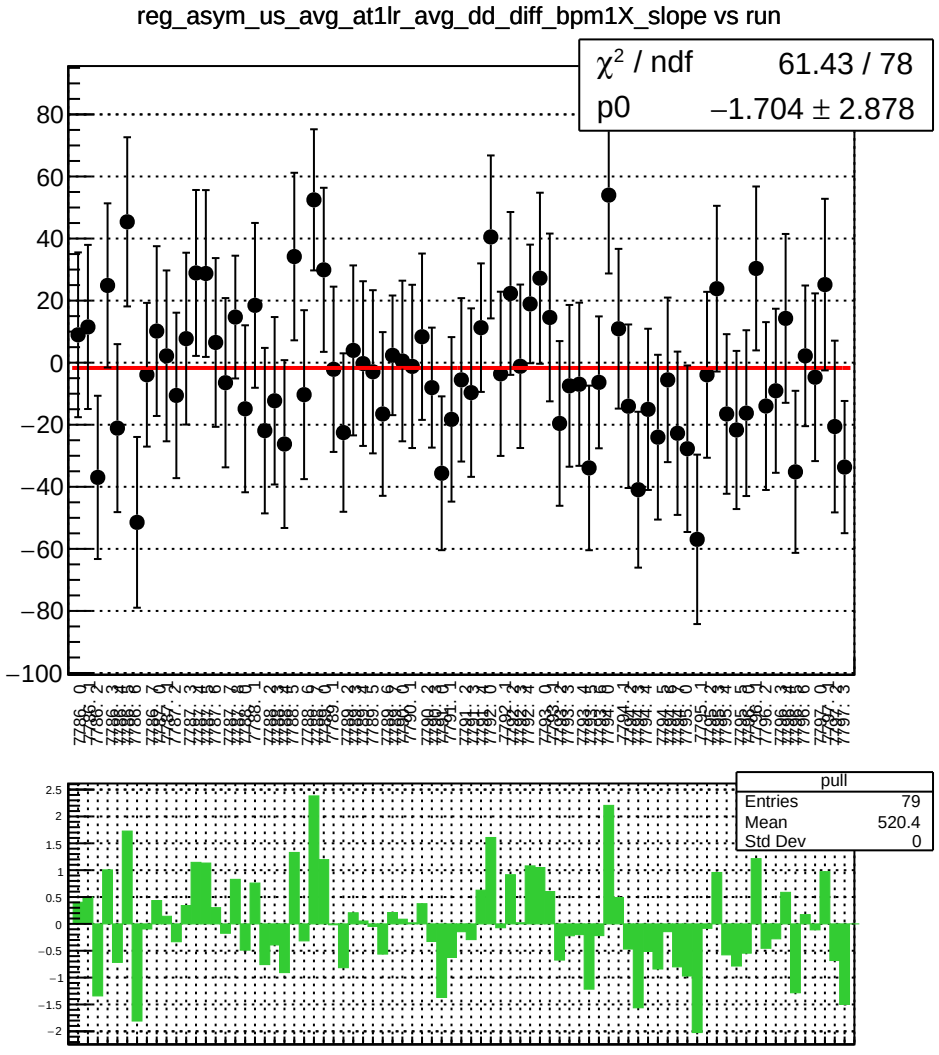

pull1D
Entries 79
Mean 0.0003742
Std Dev 0.6876
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

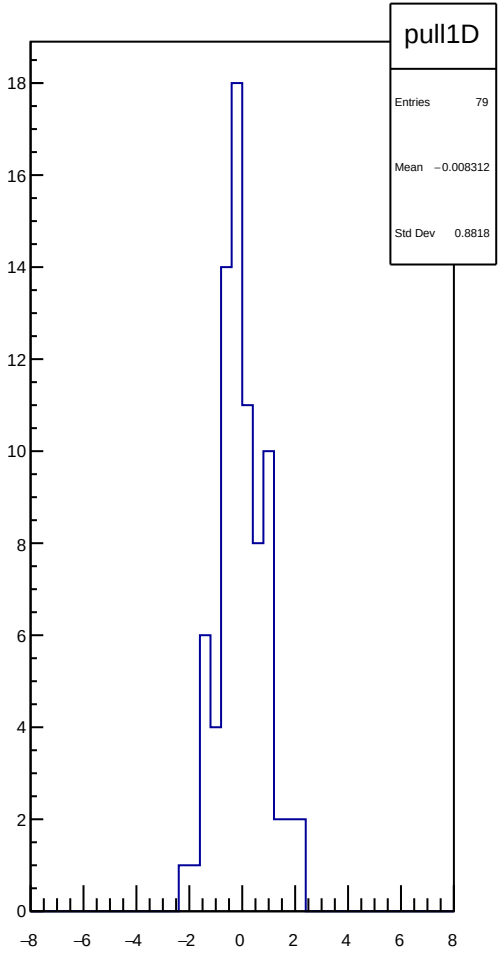

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.23 / 78
p0 57.04 ± 4.298
150
100
50
0
−50
pull
Entries 79
Mean 1.17e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1

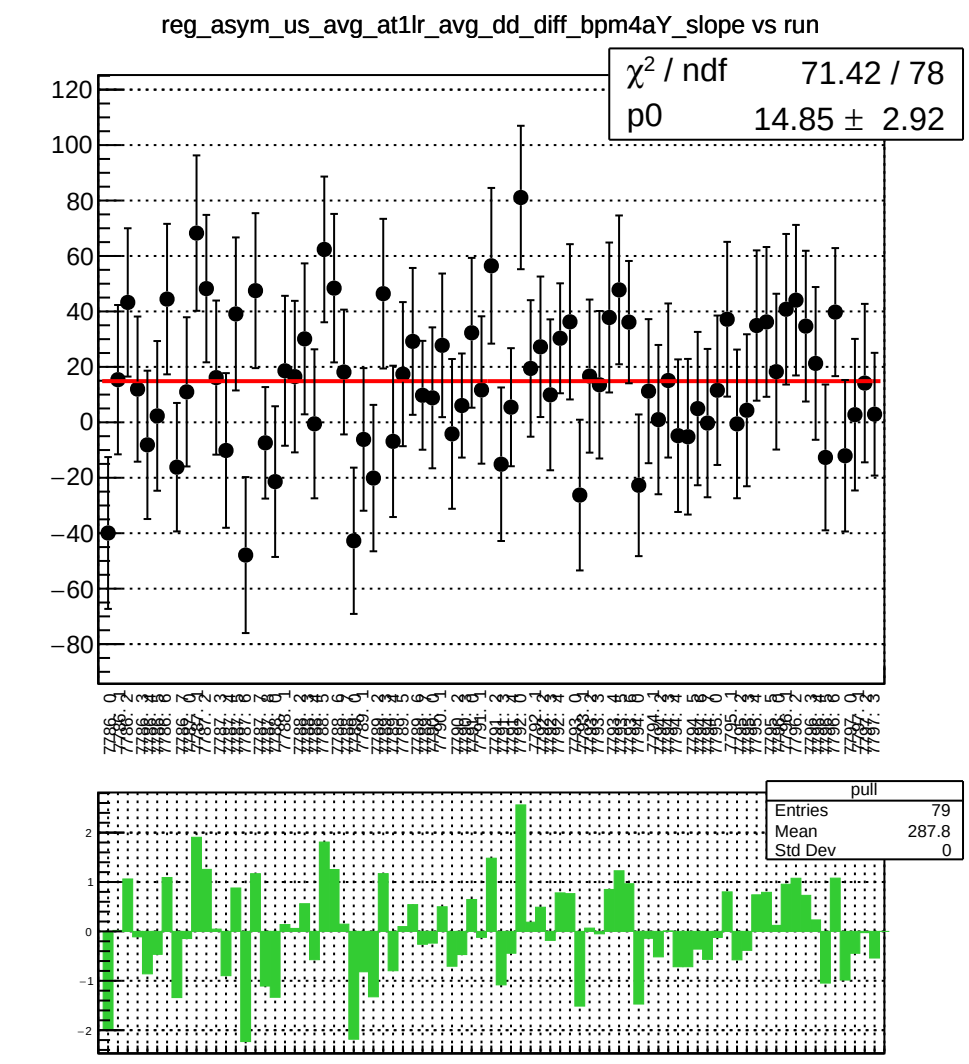

pull1D
Entries 79
Mean −0.00036
Std Dev 0.6678
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

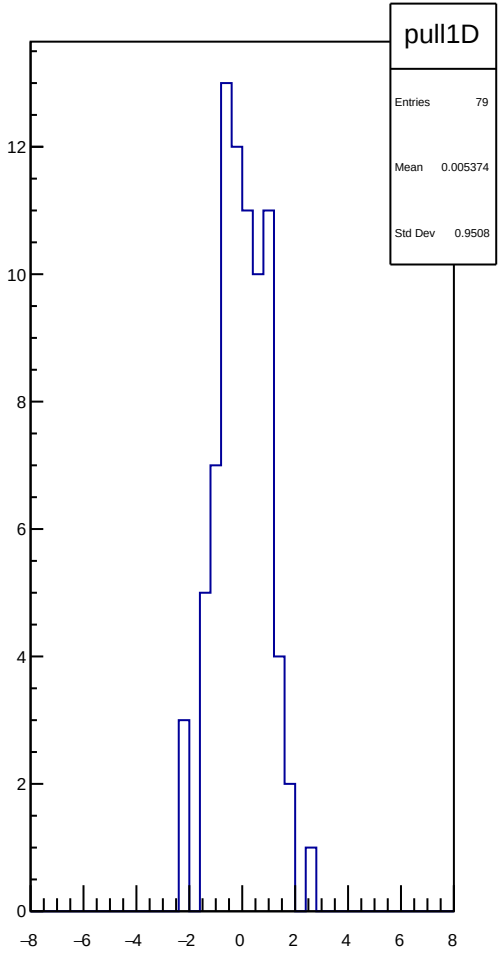

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.14 / 78
p0 −0.1233 ± 5.683
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean 492.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 79
Mean 0.0006401
Std Dev 0.6856
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

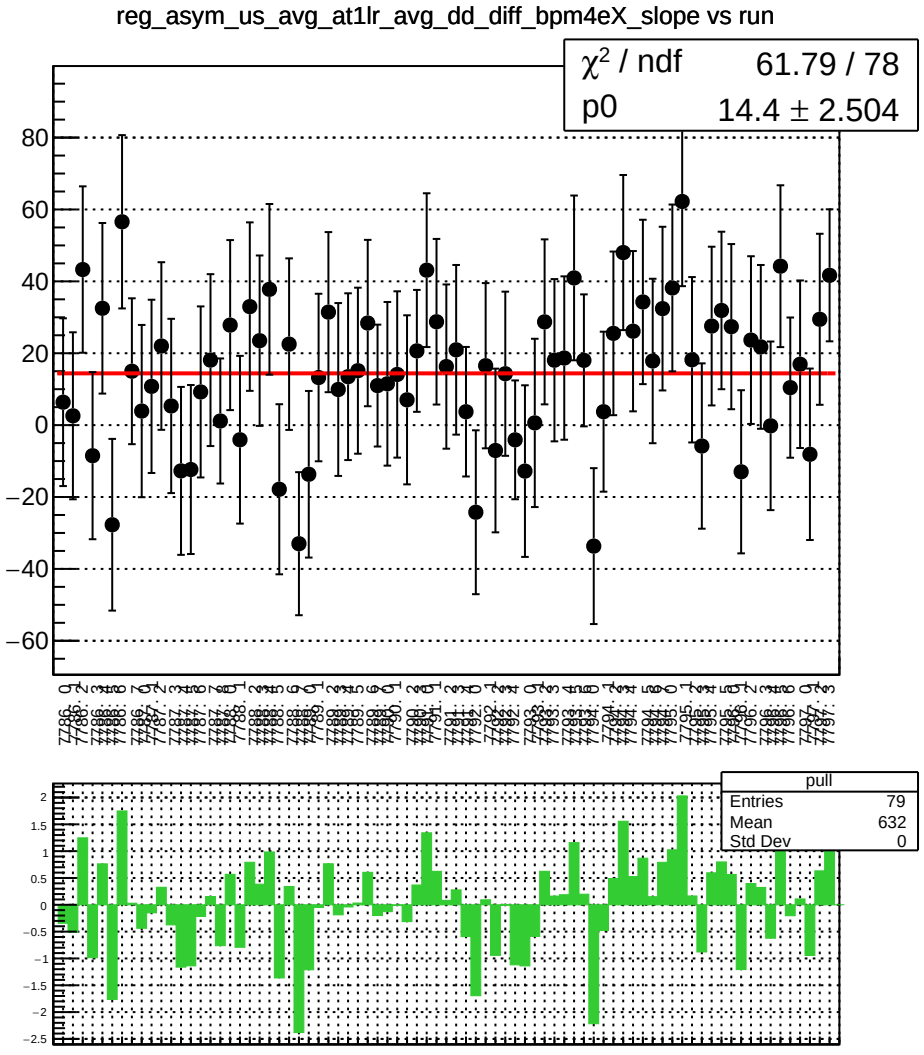

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 154.4 / 78
p0 −68.11 ± 0.1765
−60
−65
−70
−75
−80
pull
Entries 79
Mean 194.6
Std Dev 0
2
0
−2
−4
−6
pull1D
Entries 79
Mean −0.04101
Std Dev 1.397
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

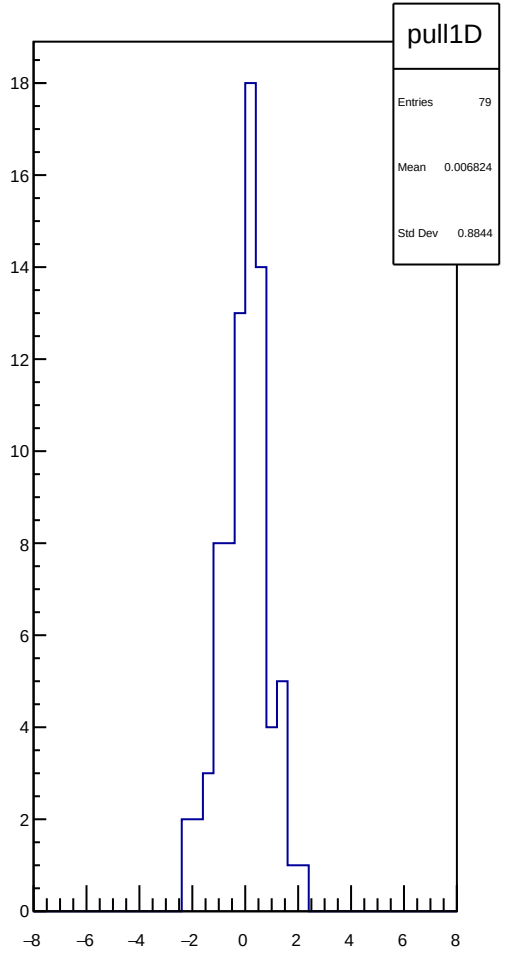

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 61.43 / 78
p0 −1.704 ± 2.878
pull
Entries 79
Mean 520.4
Std Dev 0

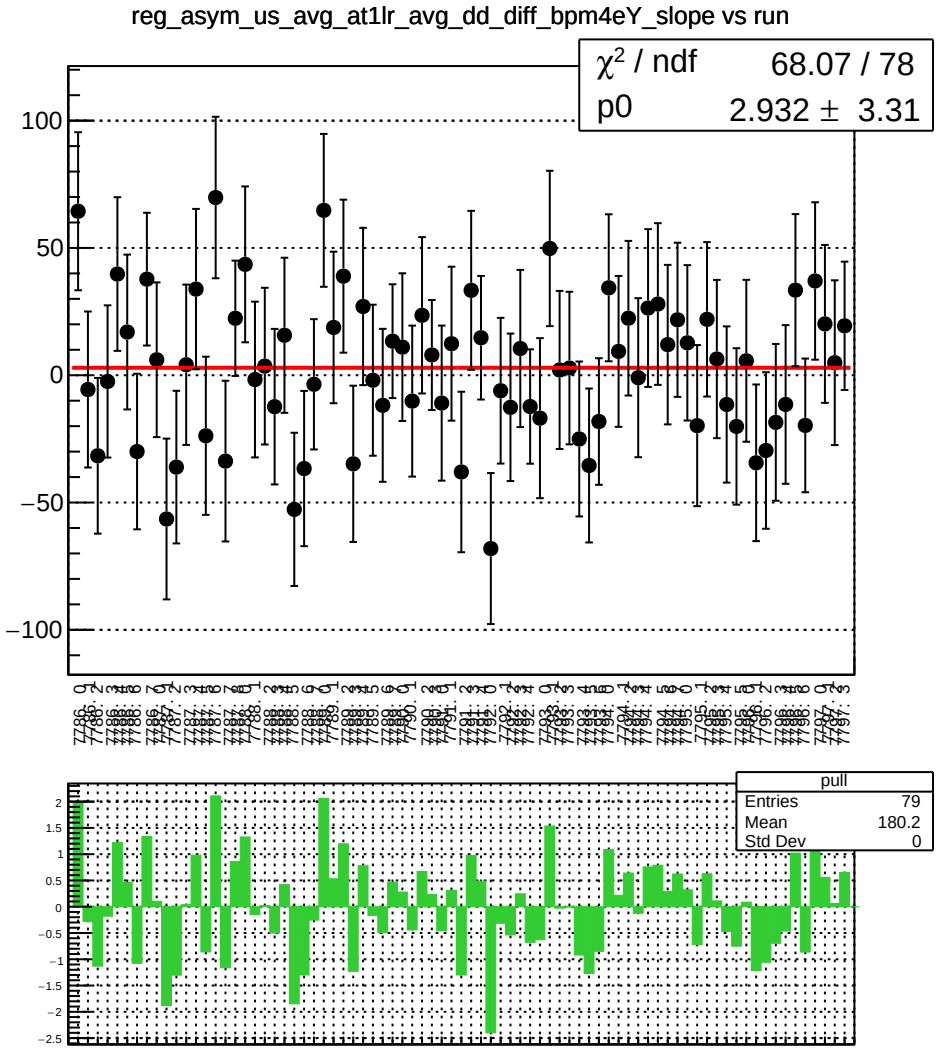

pull1D
Entries 79
Mean −0.008312
Std Dev 0.8818

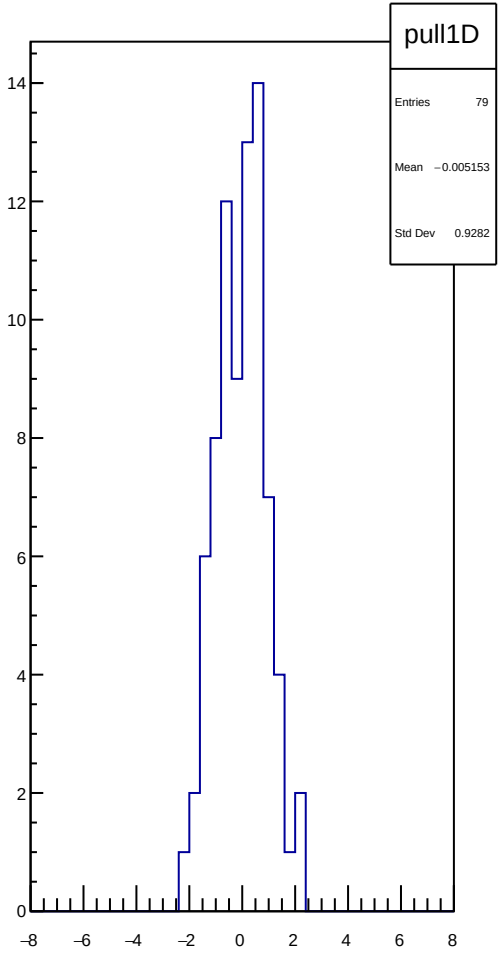

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.42 / 78
p0 14.85 ± 2.92
pull
Entries 79
Mean 287.8
Std Dev 0

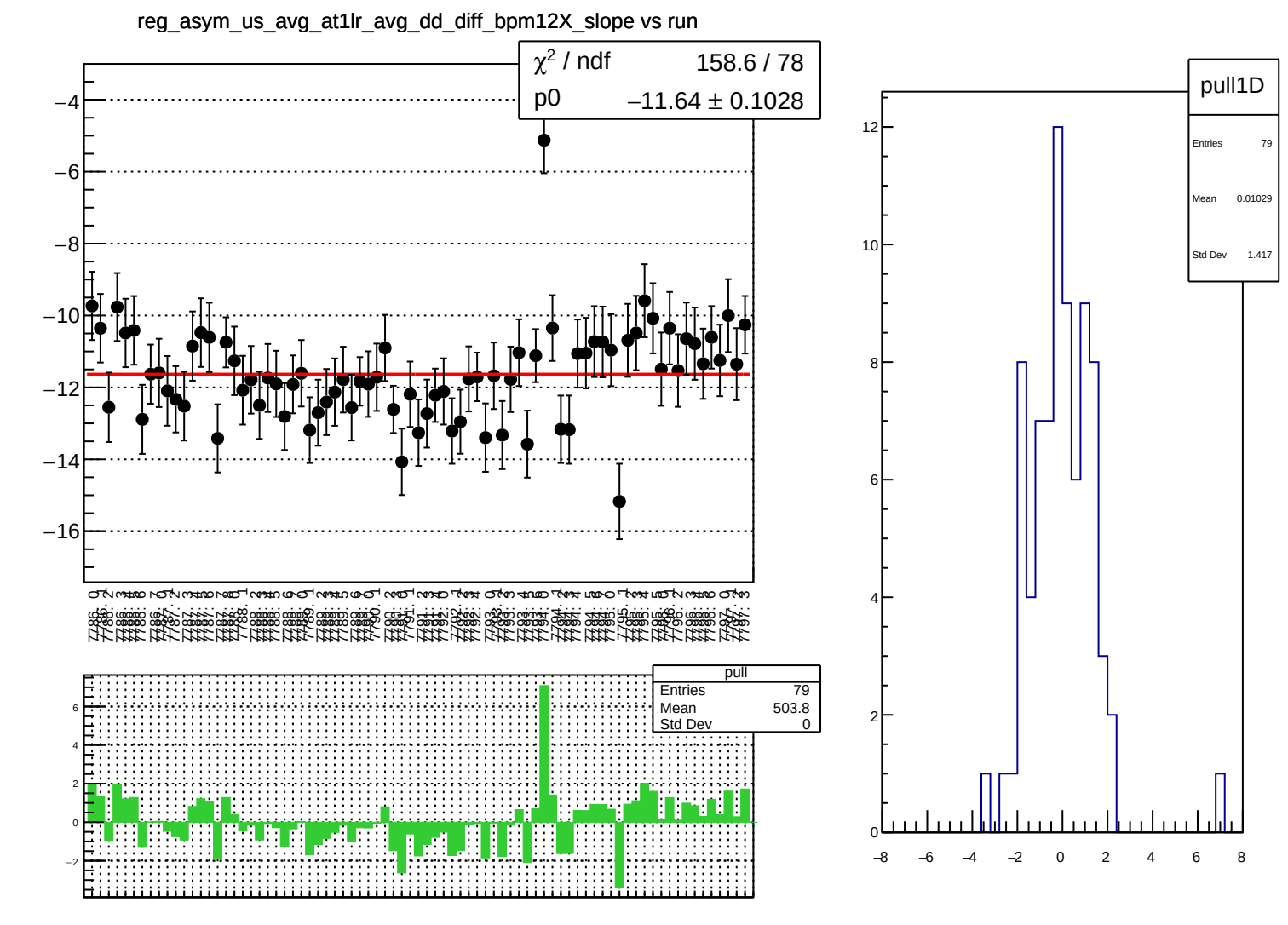

pull1D
Entries 79
Mean 0.005374
Std Dev 0.9508

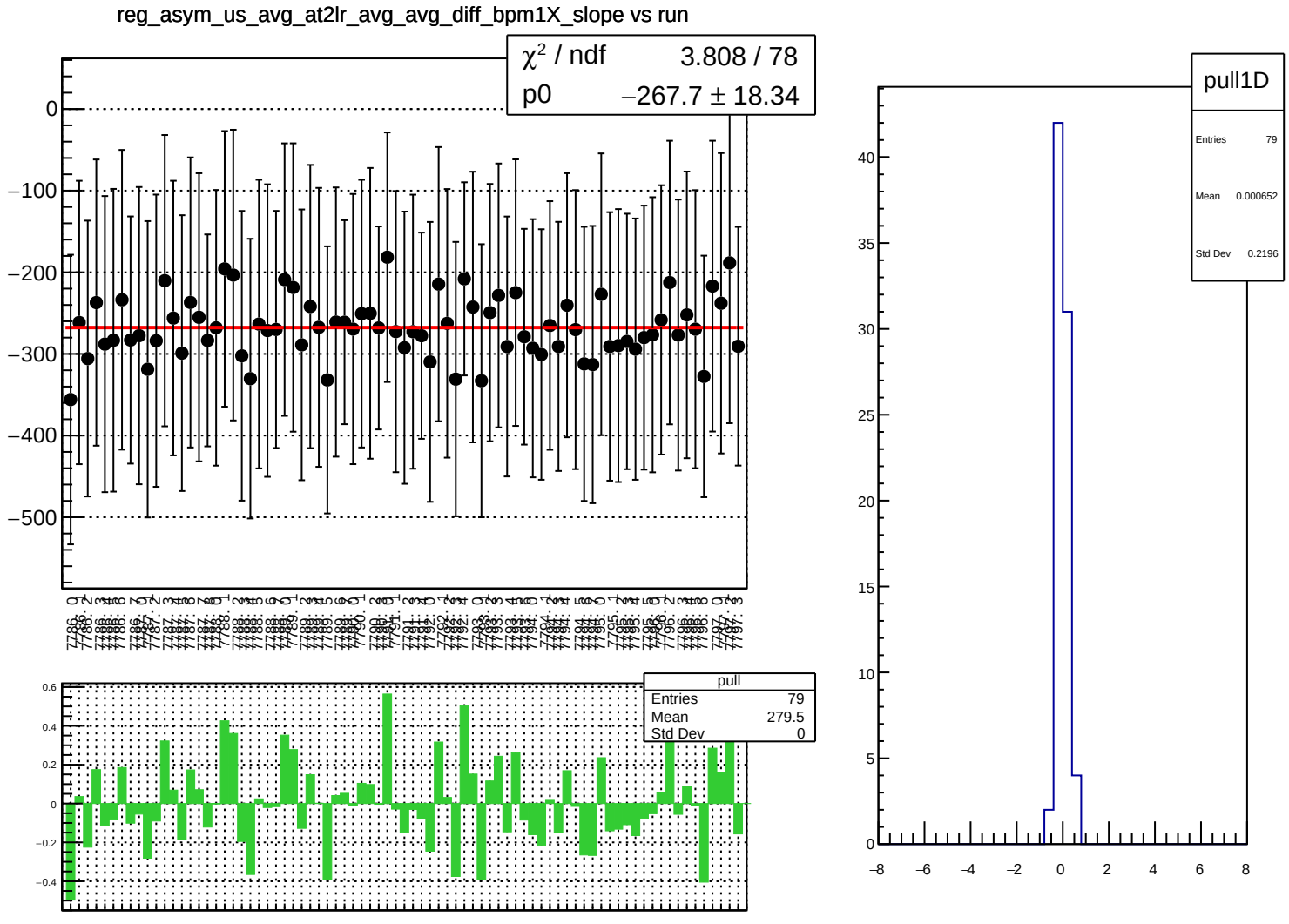

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.79 / 78
p0 14.4 ± 2.504
pull
Entries 79
Mean 632
Std Dev 0

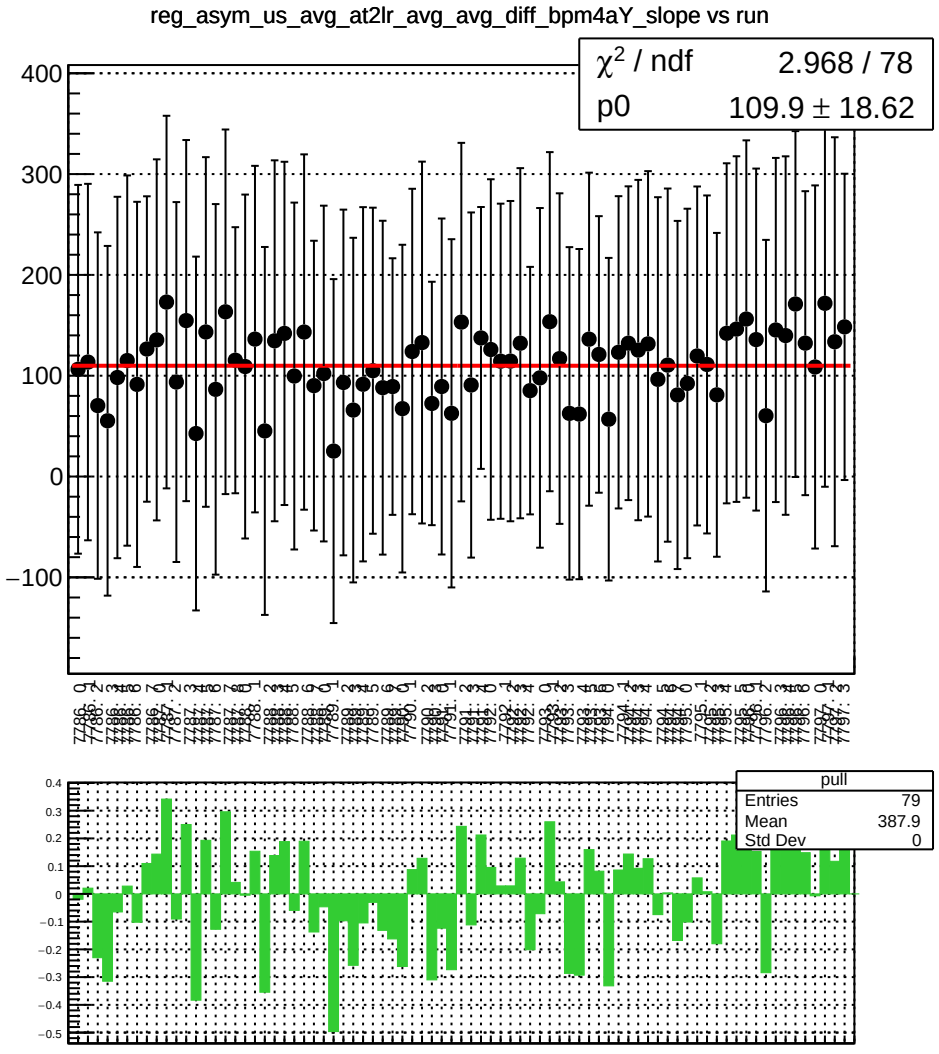

pull1D
Entries 79
Mean 0.006824
Std Dev 0.8844

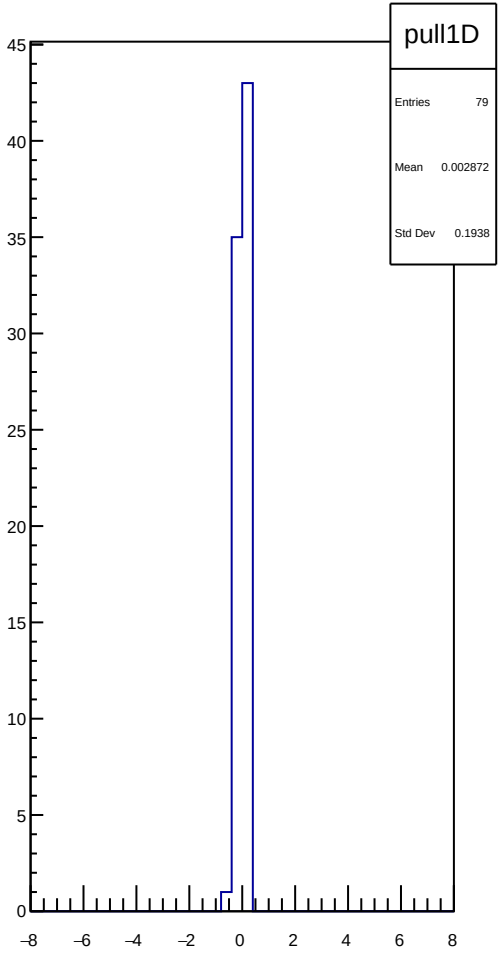

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.07 / 78
p0 2.932 ± 3.31
100
50
0
−50
−100
pull
Entries 79
Mean 180.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

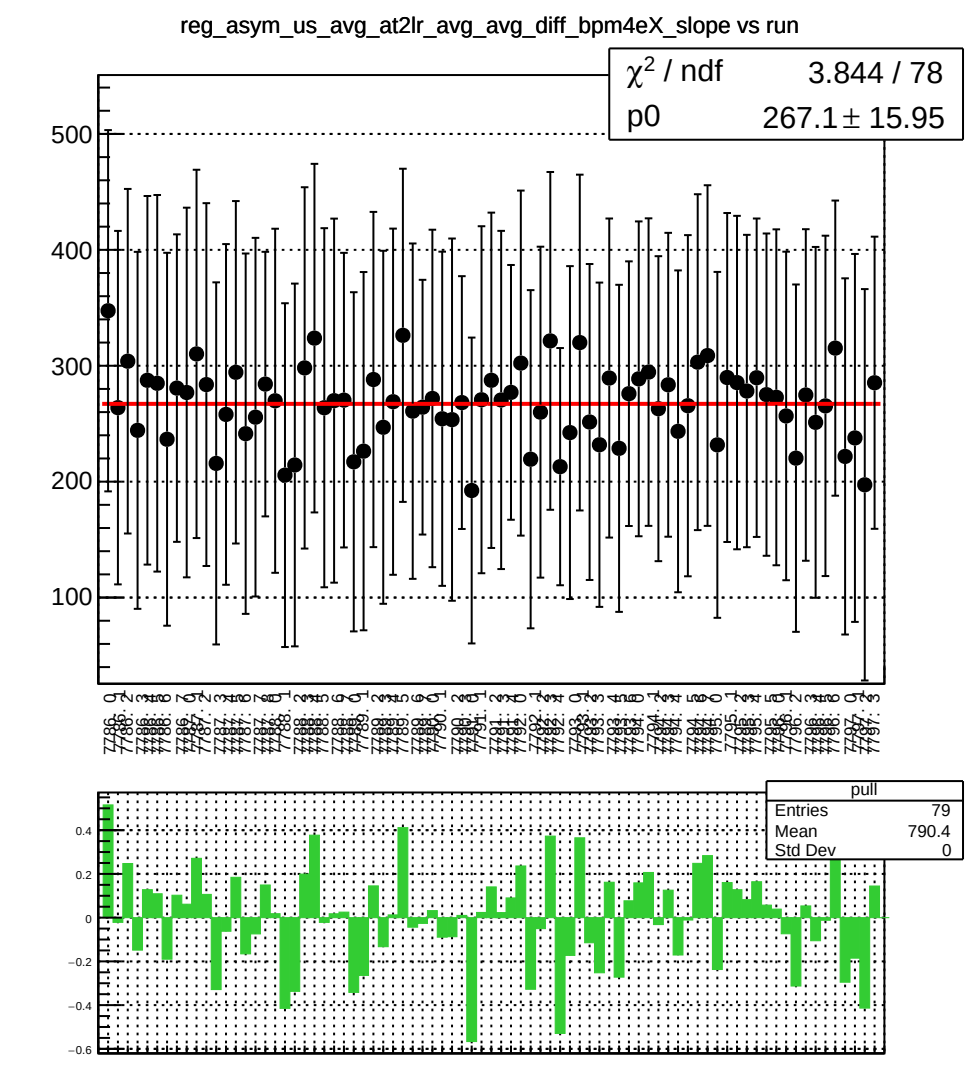

pull1D
Entries 79
Mean −0.005153
Std Dev 0.9282
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

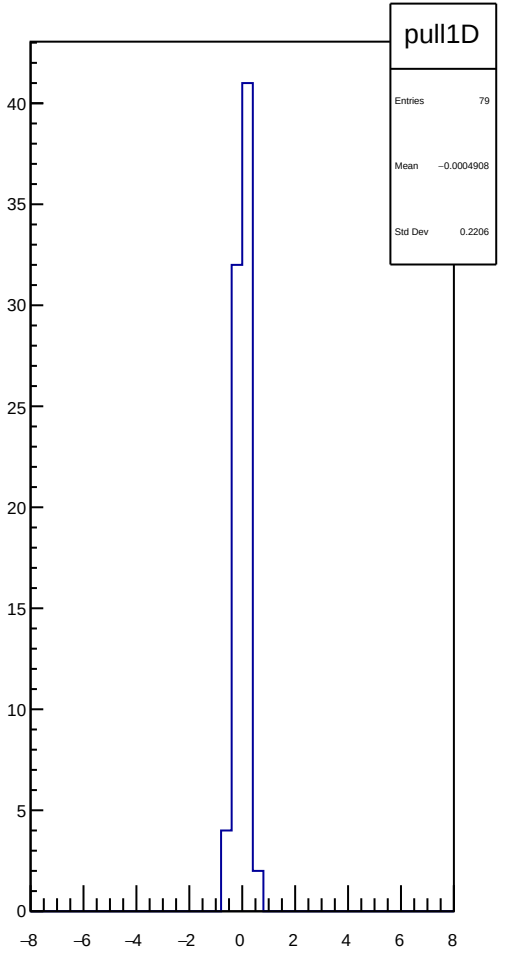

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 158.6 / 78
p0 −11.64 ± 0.1028
pull
Entries 79
Mean 503.8
Std Dev 0
pull1D
Entries 79
Mean 0.01029
Std Dev 1.417

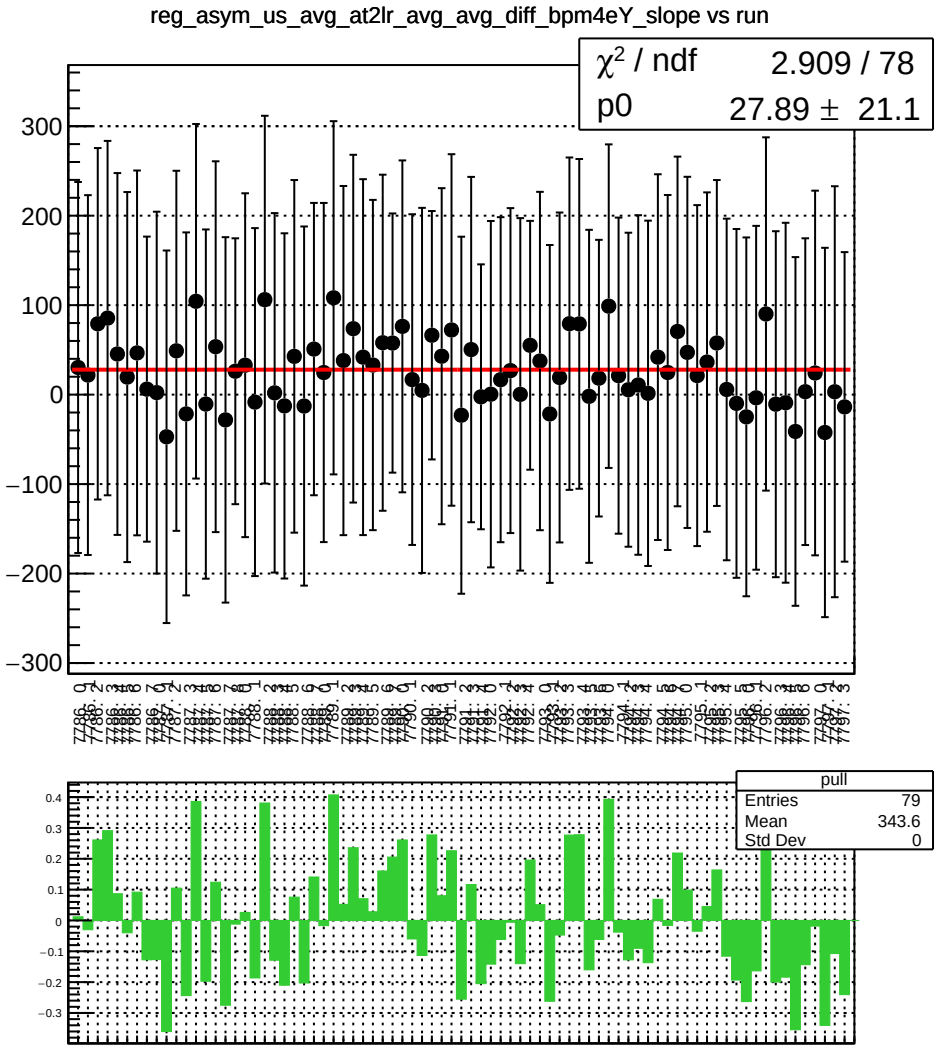

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.808 / 78
p0 −267.7 ± 18.34
0
−100
−200
−300
−400
−500
pull
Entries 79
Mean 279.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 79
Mean 0.000652
Std Dev 0.2196
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

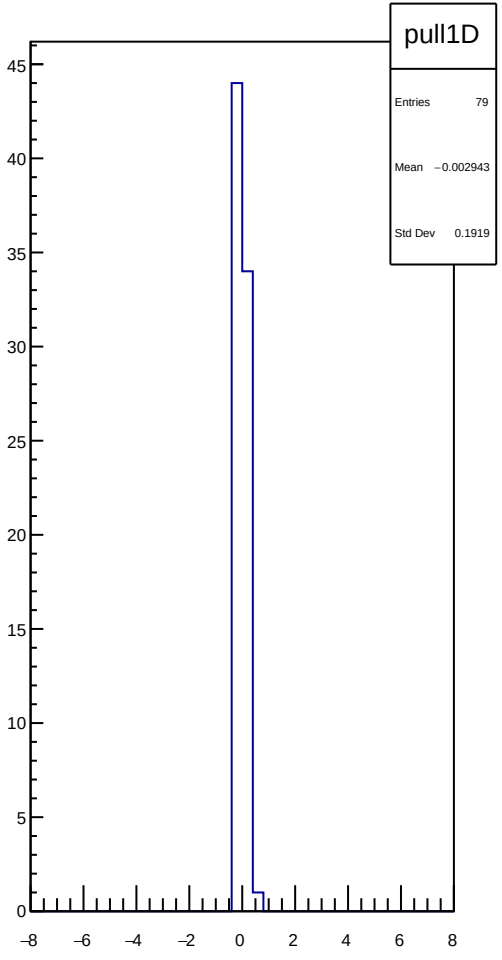

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.968 / 78
p0 109.9 ± 18.62
pull
Entries 79
Mean 387.9
Std Dev 0

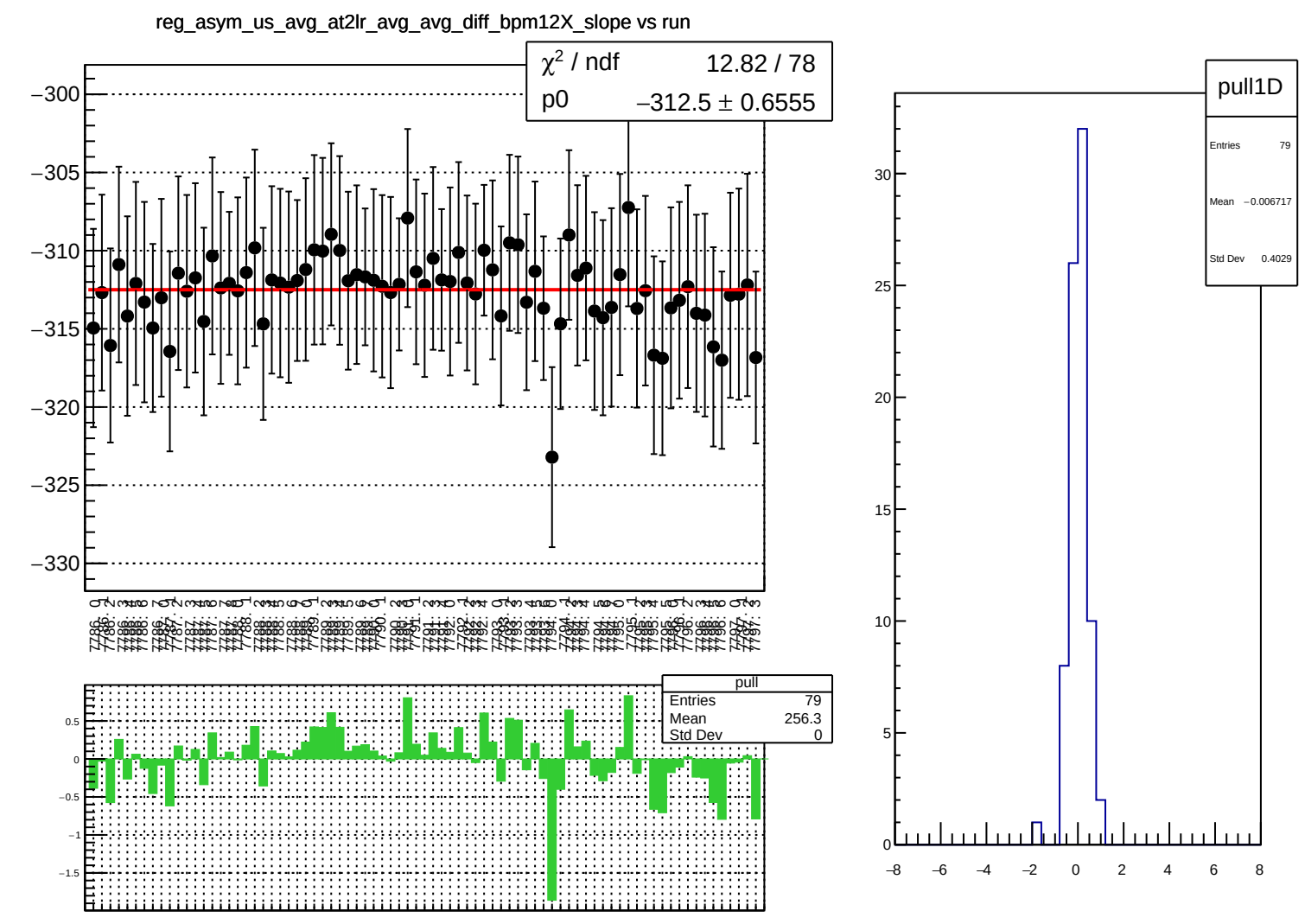

pull1D
Entries 79
Mean 0.002872
Std Dev 0.1938

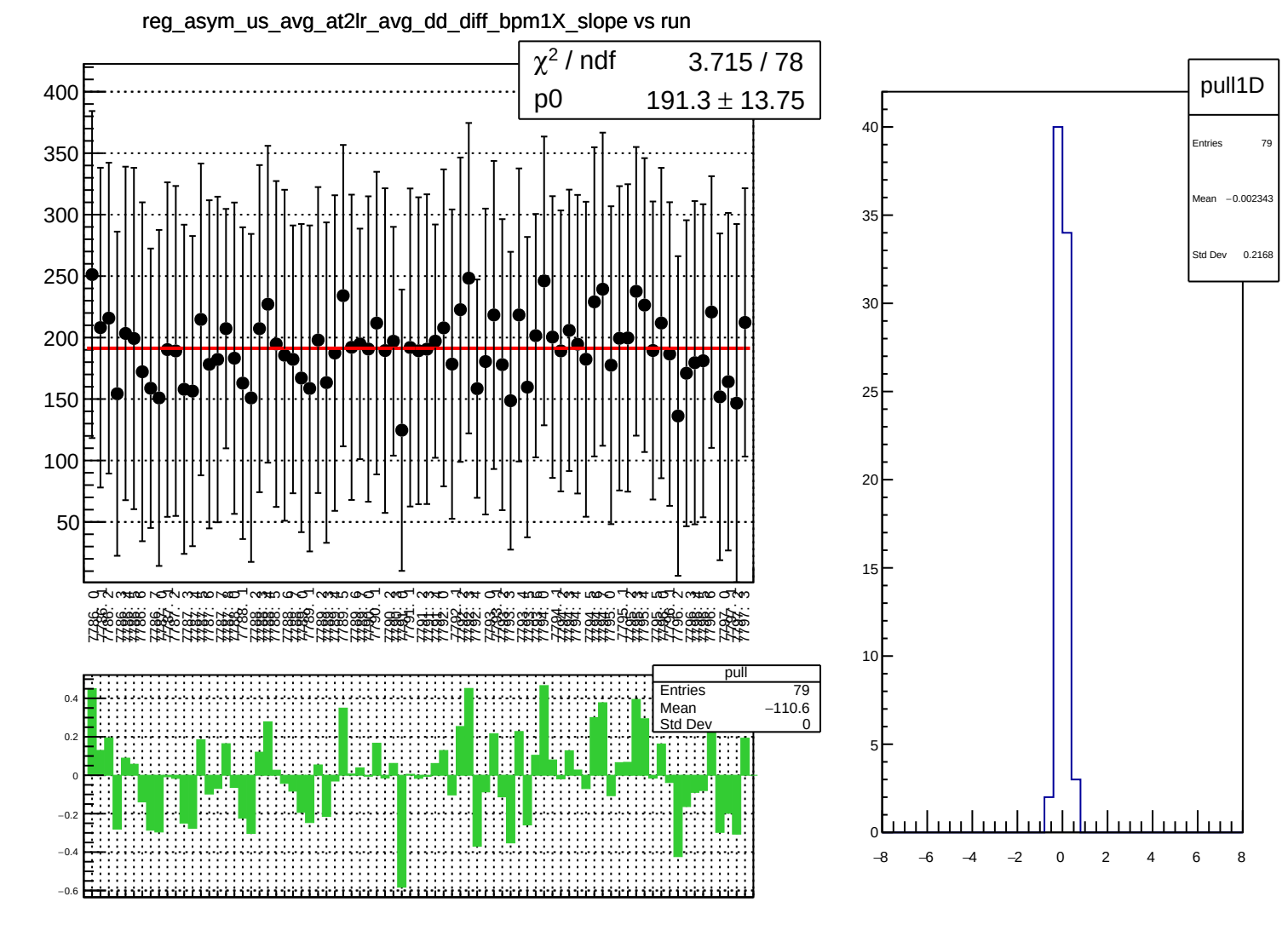

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.844 / 78
p0 267.1 ± 15.95
pull
Entries 79
Mean 790.4
Std Dev 0

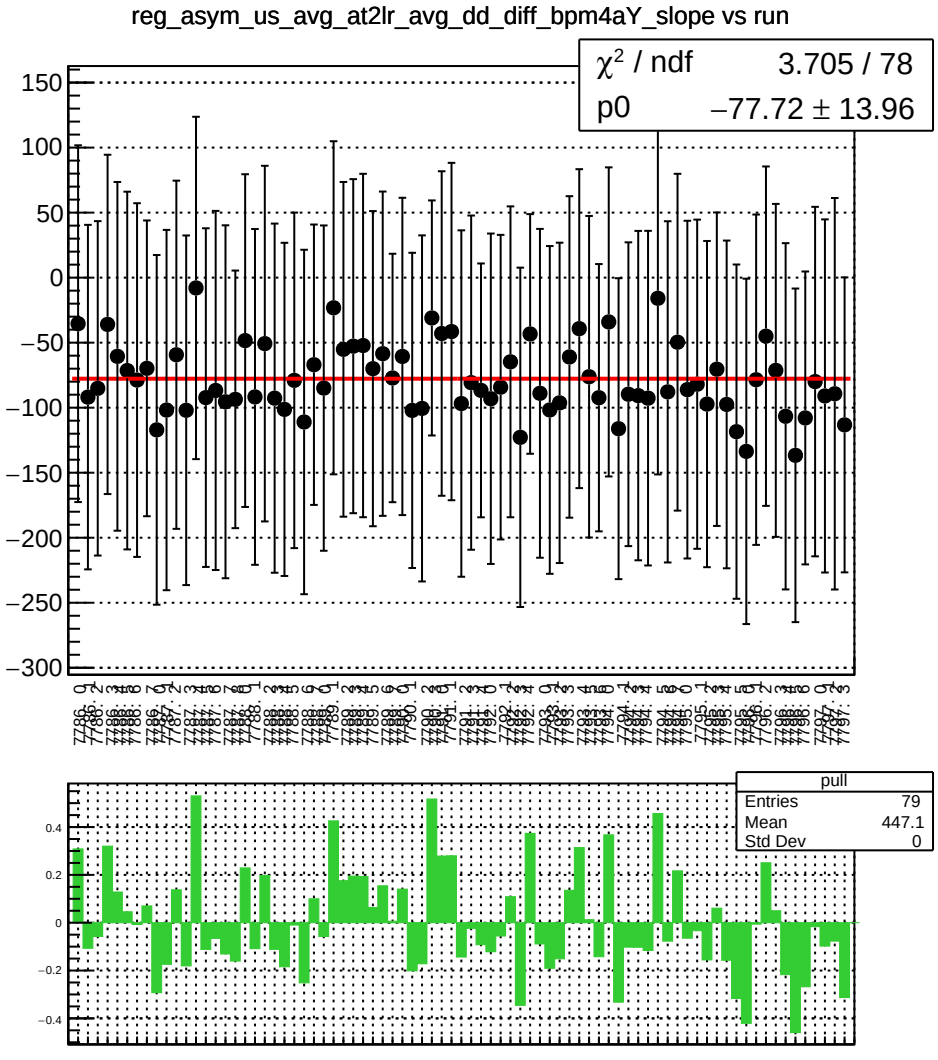

pull1D
Entries 79
Mean −0.0004908
Std Dev 0.2206

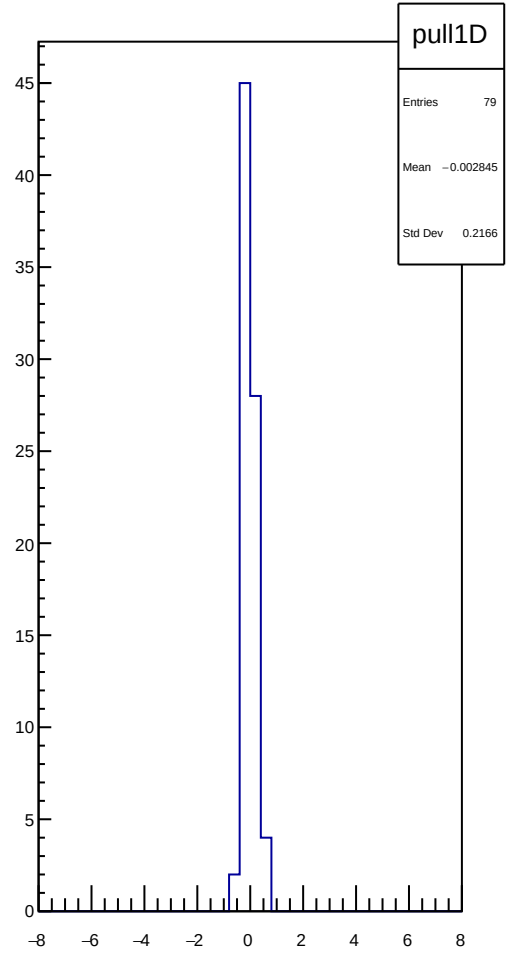

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.909 / 78
p0 27.89 ± 21.1
pull
Entries 79
Mean 343.6
Std Dev 0

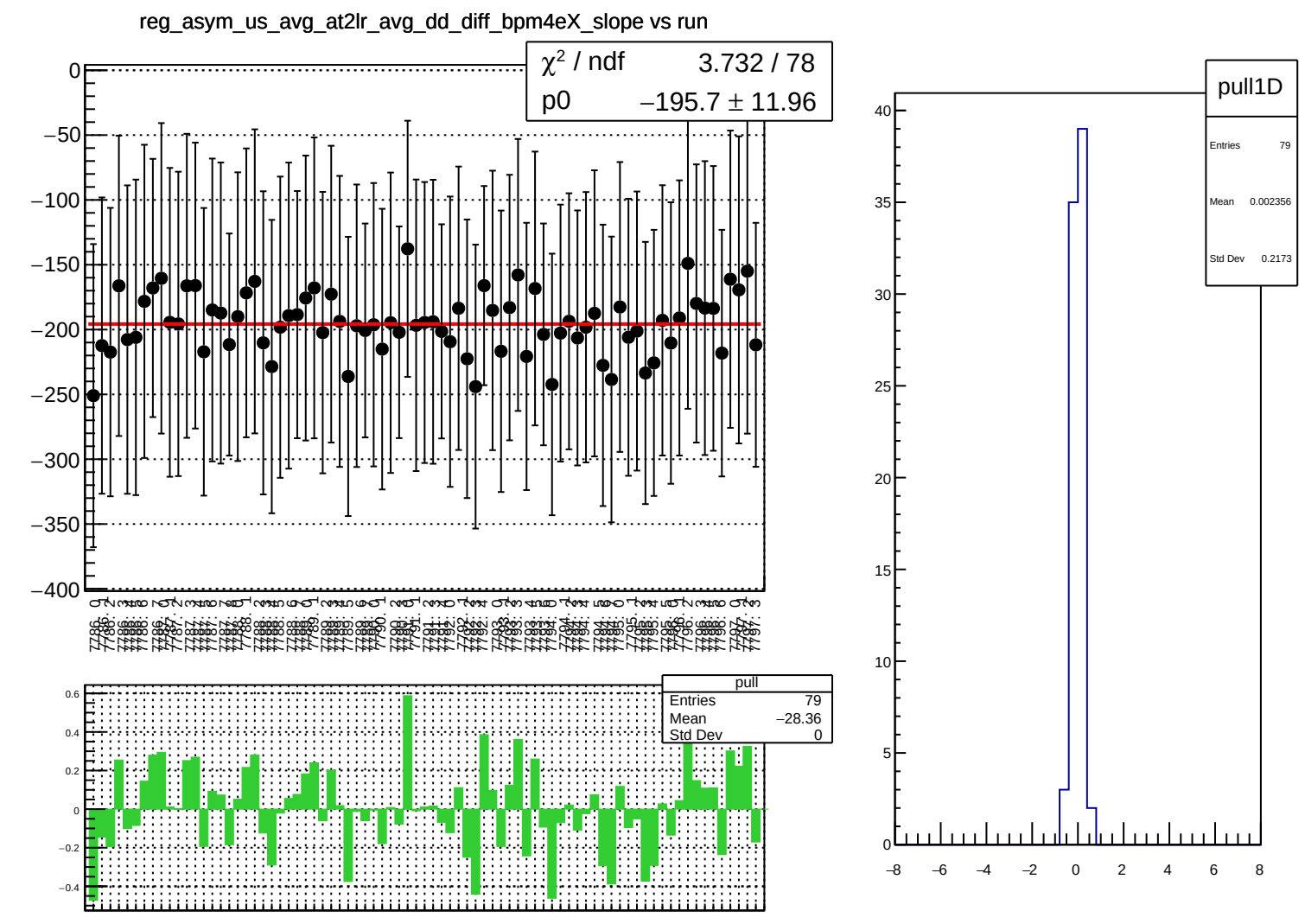

pull1D
Entries 79
Mean −0.002943
Std Dev 0.1919

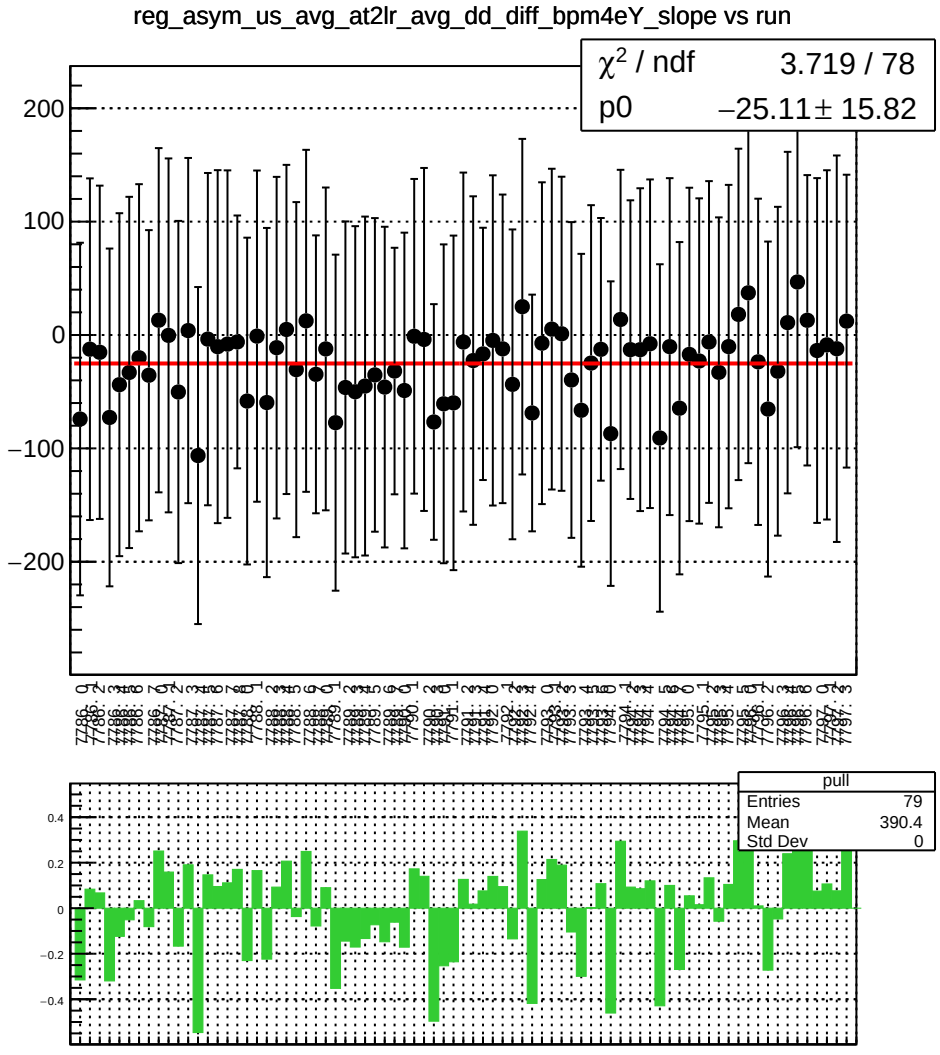

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 12.82 / 78
p0 −312.5 ± 0.6555
−300
−305
−310
−315
−320
−325
−330
pull
Entries 79
Mean 256.3
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 79
Mean −0.006717
Std Dev 0.4029
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

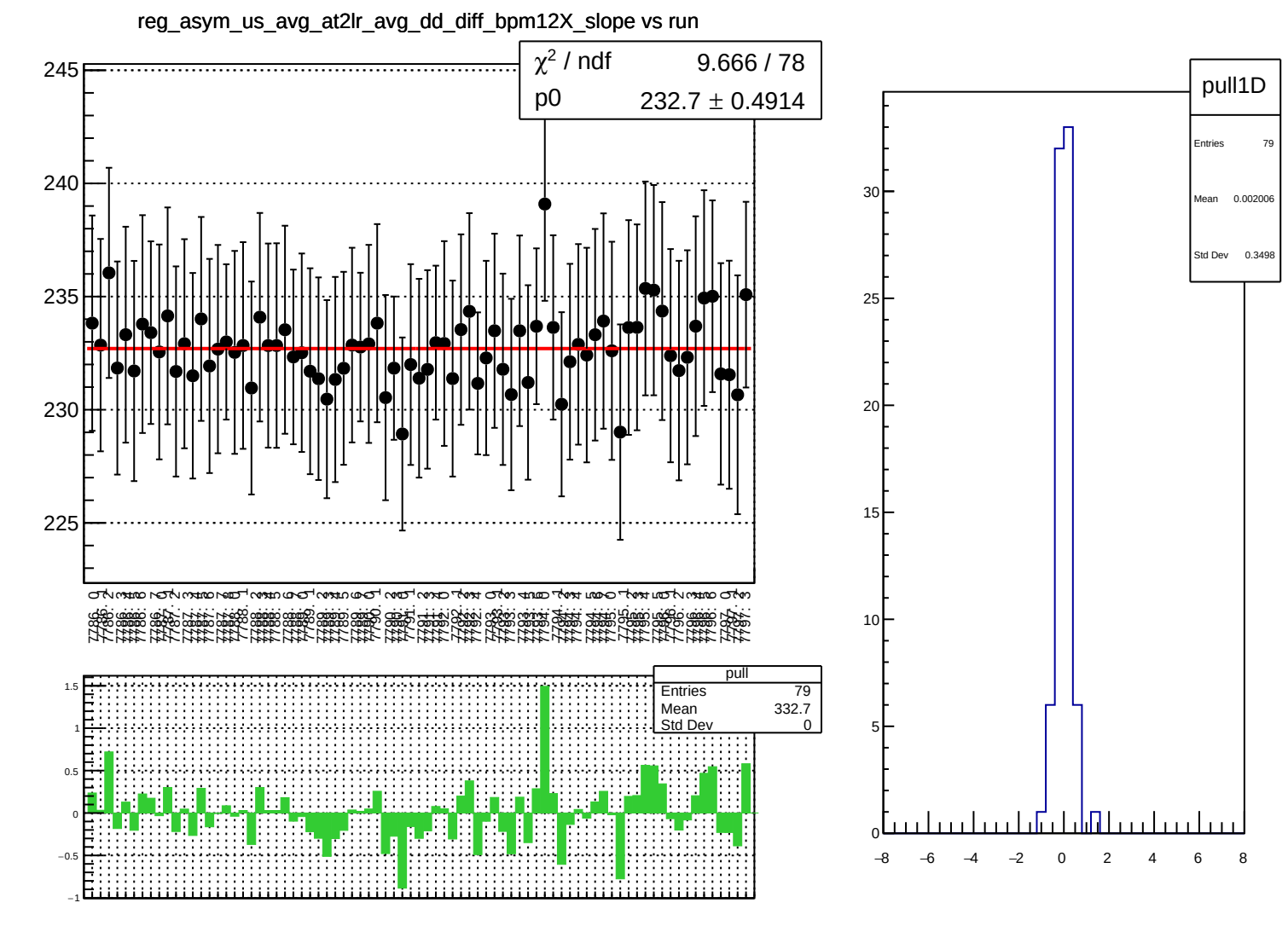

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 3.715 / 78
p0 191.3 ± 13.75
pull
Entries 79
Mean −110.6
Std Dev 0
pull1D
Entries 79
Mean −0.002343
Std Dev 0.2168

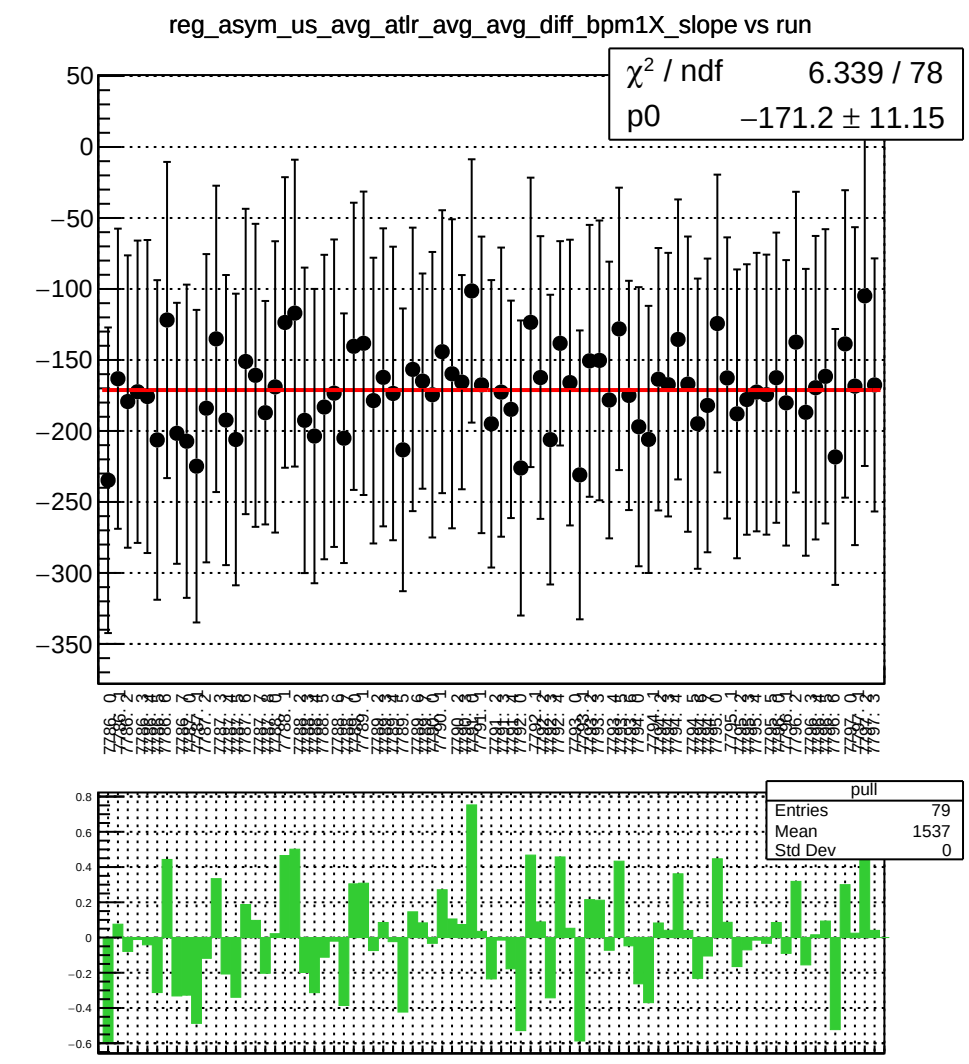

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.705 / 78
p0 −77.72 ± 13.96
pull
Entries 79
Mean 447.1
Std Dev 0

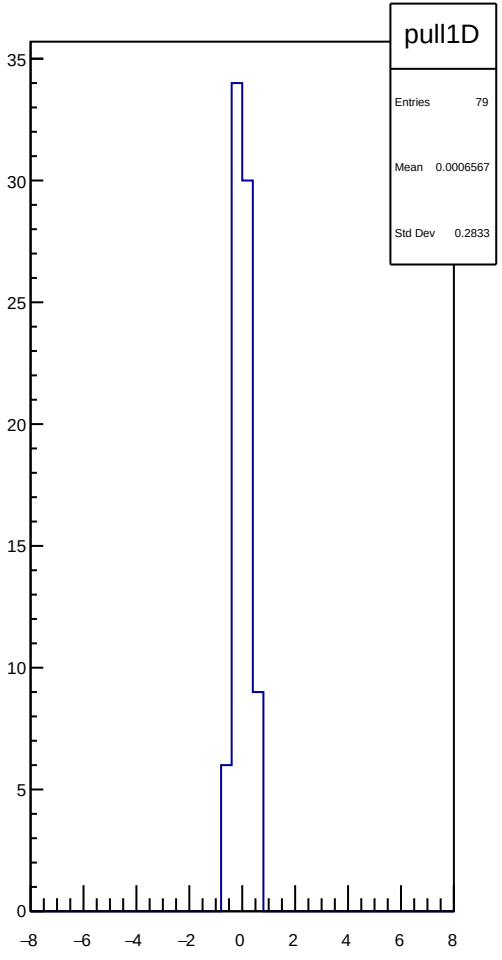

pull1D
Entries 79
Mean −0.002845
Std Dev 0.2166

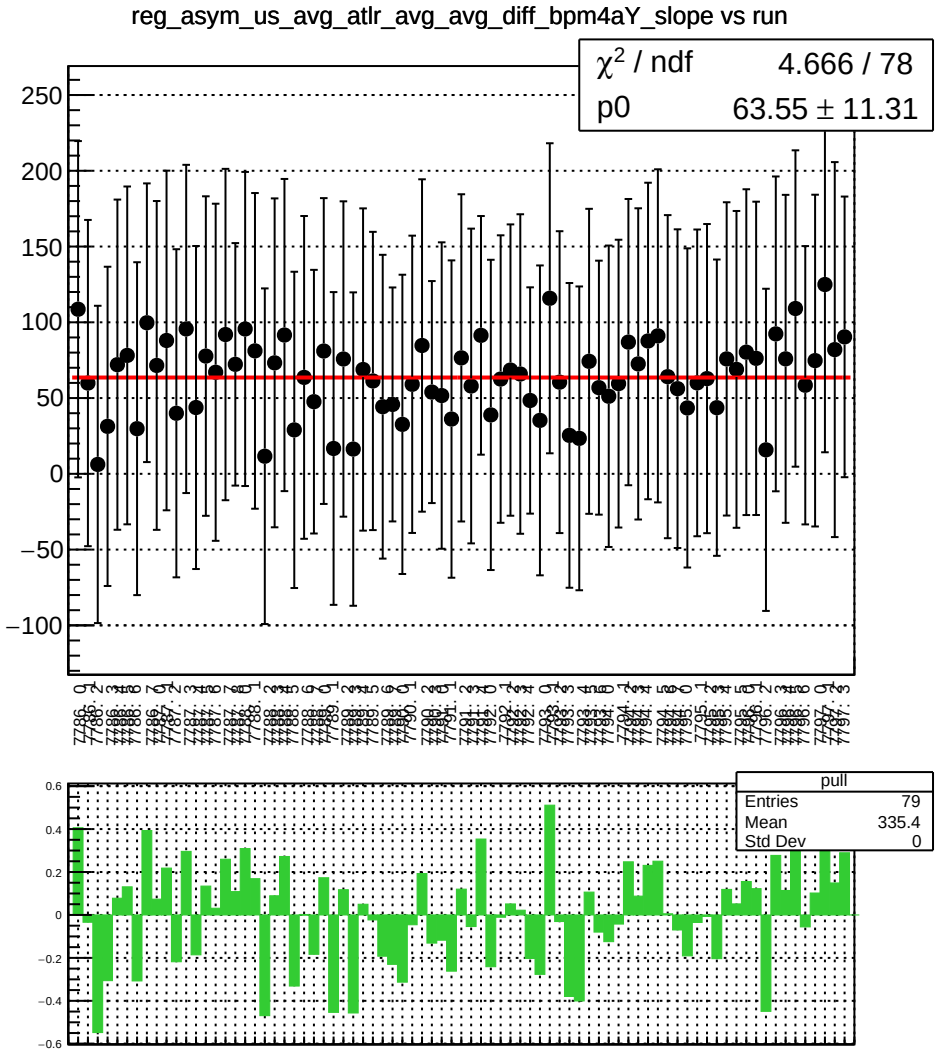

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.732 / 78
p0 −195.7 ± 11.96
pull
Entries 79
Mean −28.36
Std Dev 0
pull1D
Entries 79
Mean 0.002356
Std Dev 0.2173

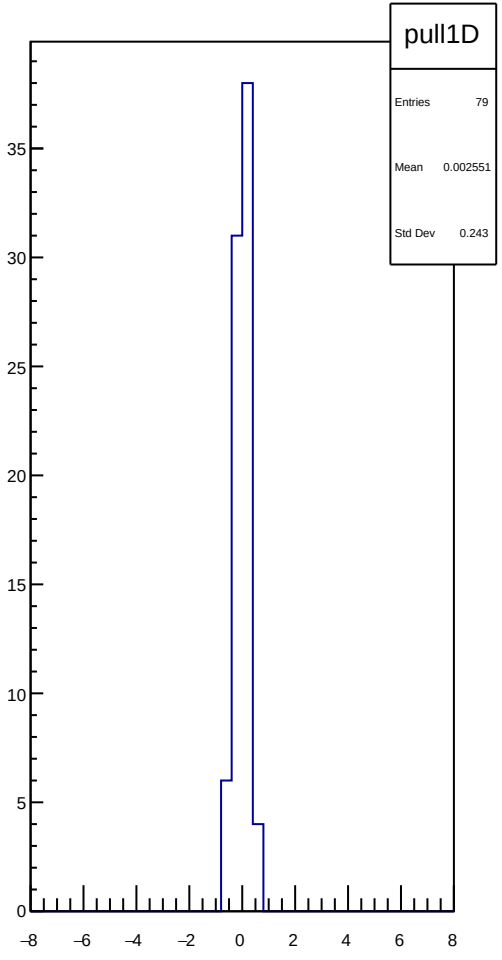

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.719 / 78
p0 −25.11± 15.82
pull
Entries 79
Mean 390.4
Std Dev 0
pull1D
Entries 79
Mean 0.003249
Std Dev 0.2169

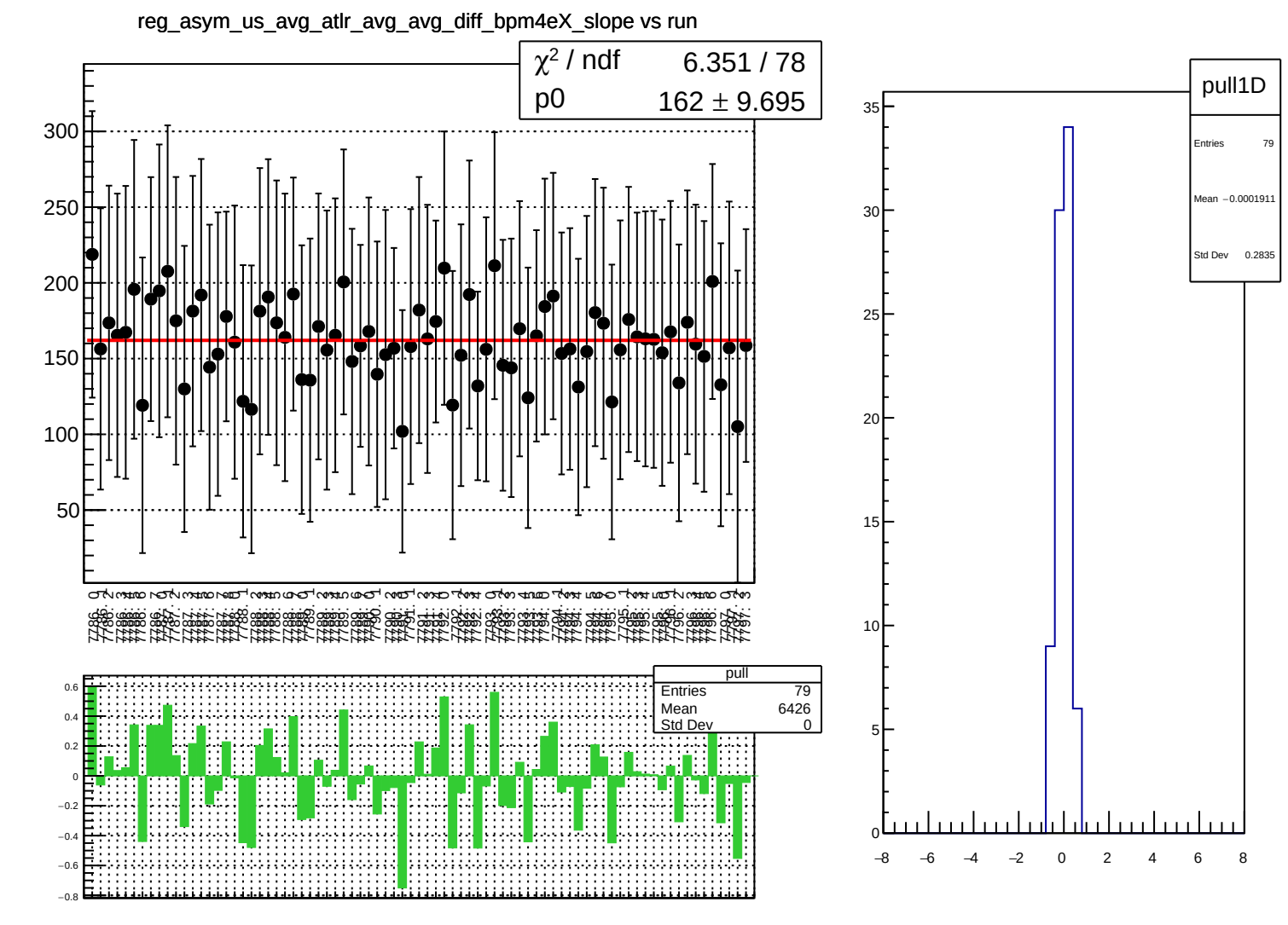

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 9.666 / 78
p0 232.7 ± 0.4914
245
240
235
230
225
pull
Entries 79
Mean 332.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 79
Mean 0.002006
Std Dev 0.3498
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

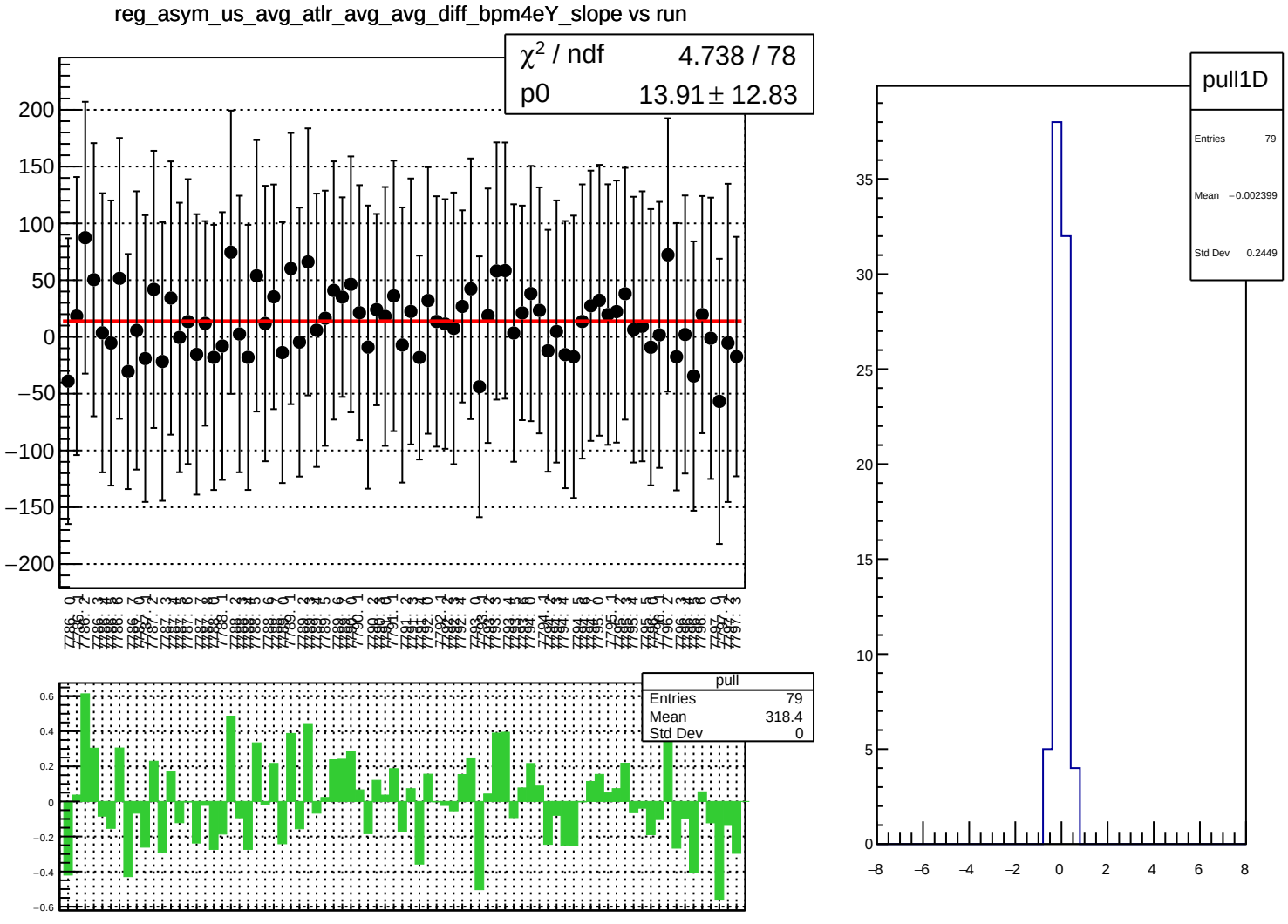

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 6.339 / 78
p0 −171.2 ± 11.15
pull
Entries 79
Mean 1537
Std Dev 0

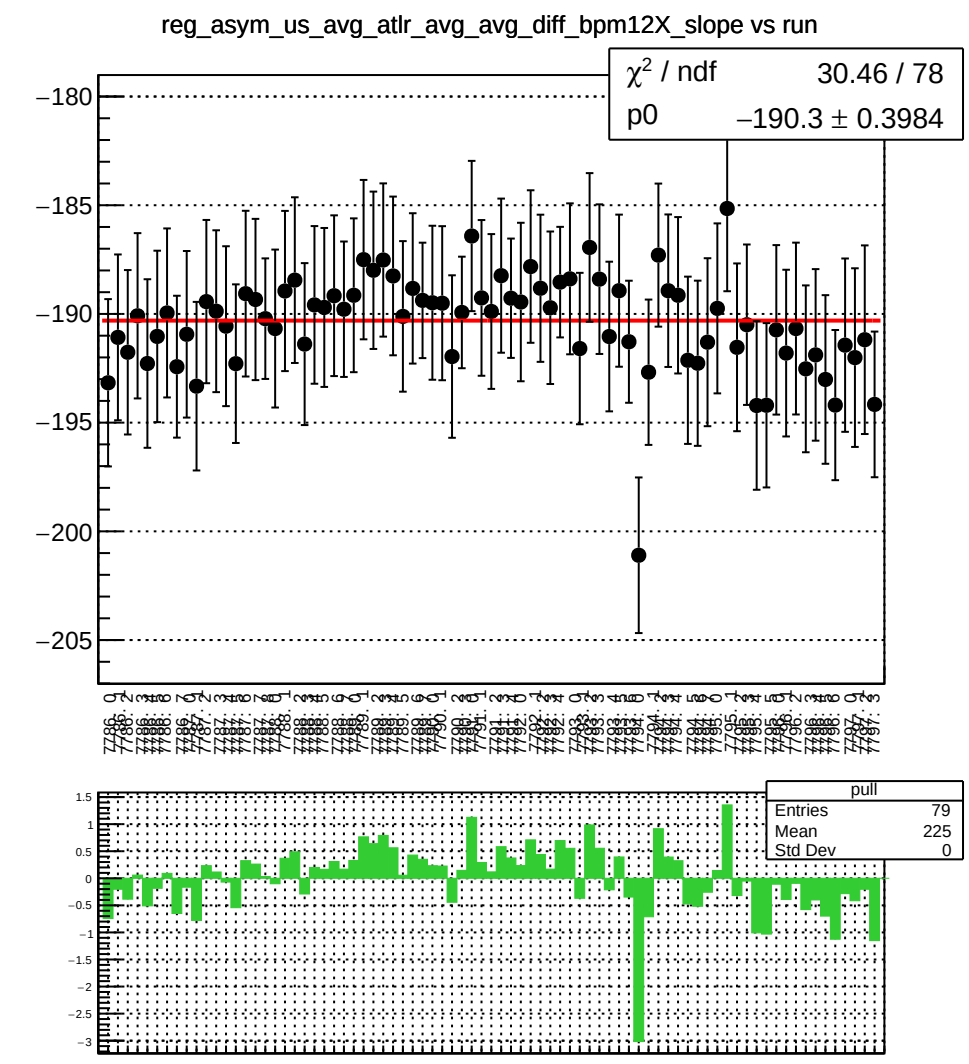

pull1D
Entries 79
Mean 0.0006567
Std Dev 0.2833

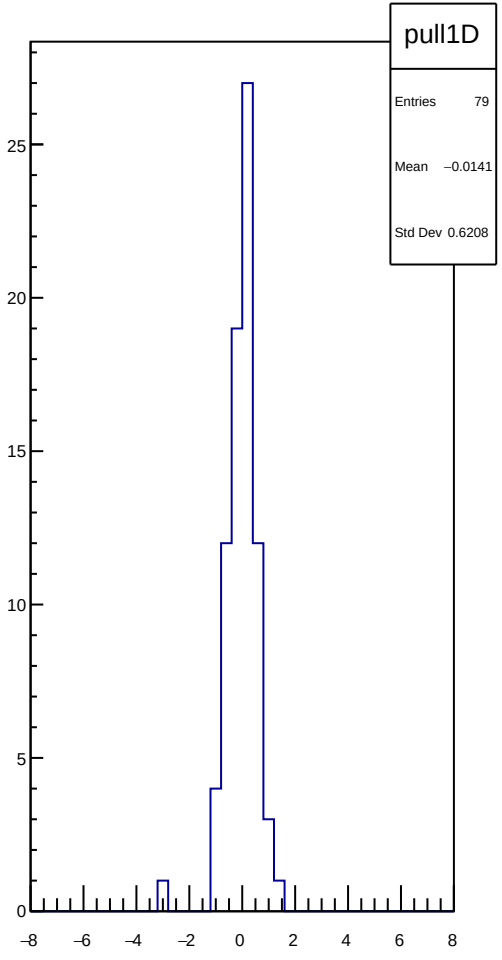

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.666 / 78
p0 63.55 ± 11.31
pull
Entries 79
Mean 335.4
Std Dev 0

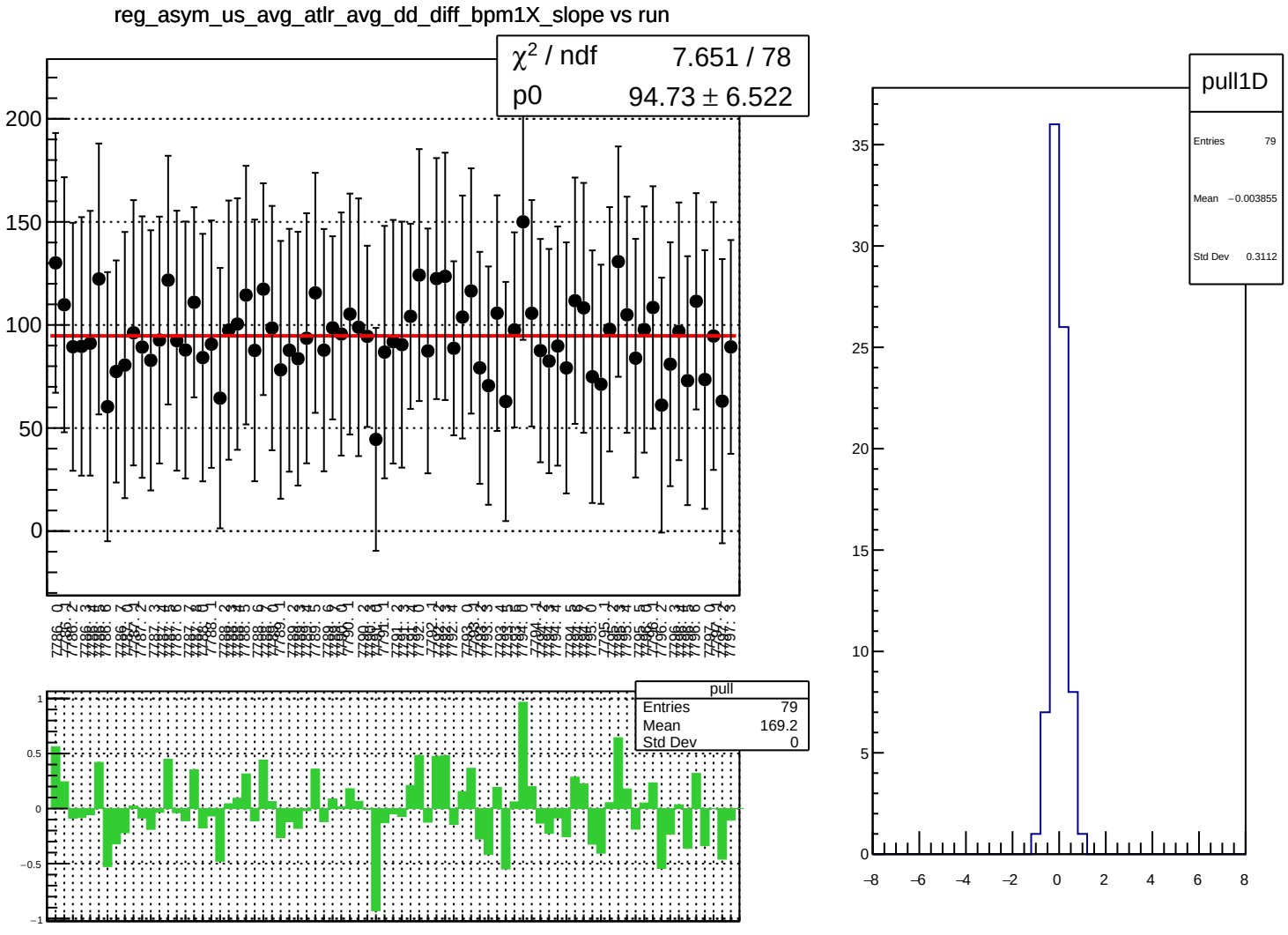

pull1D
Entries 79
Mean 0.002551
Std Dev 0.243

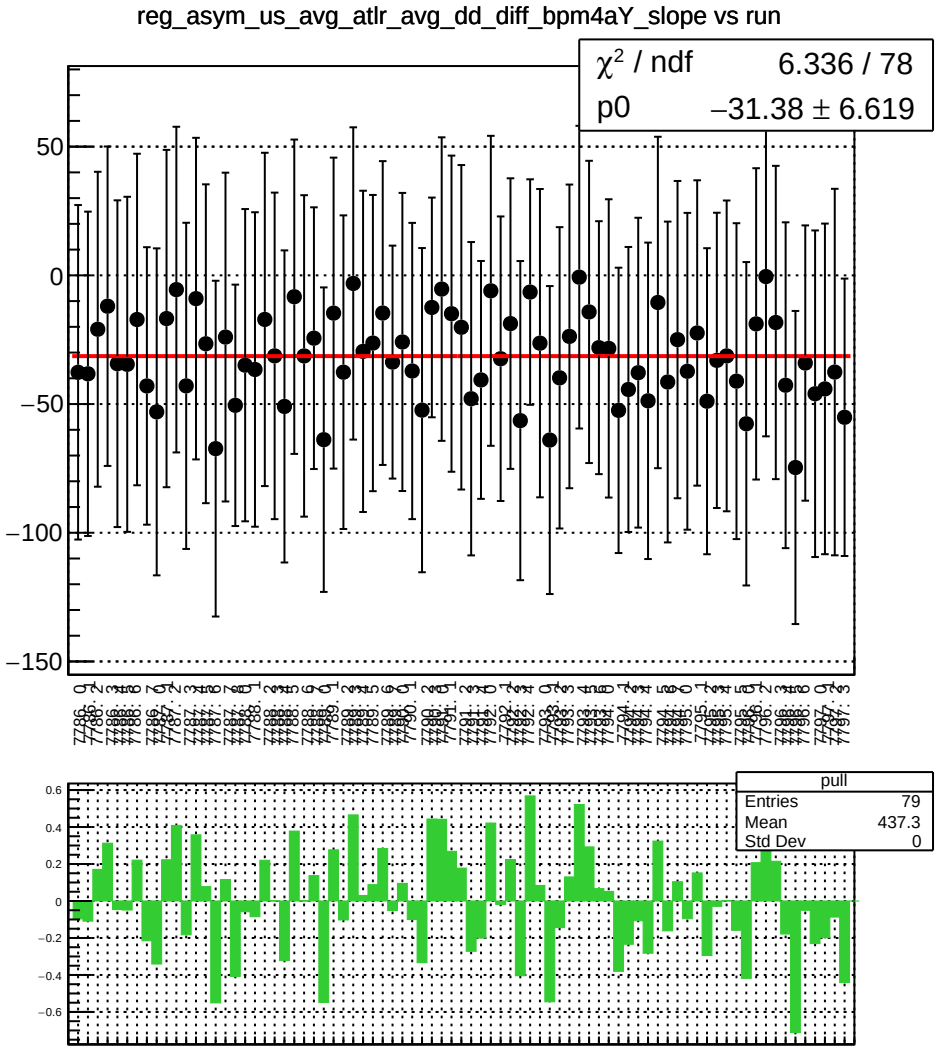

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.351 / 78
p0 162 ± 9.695
pull
Entries 79
Mean 6426
Std Dev 0
pull1D
Entries 79
Mean −0.0001911
Std Dev 0.2835

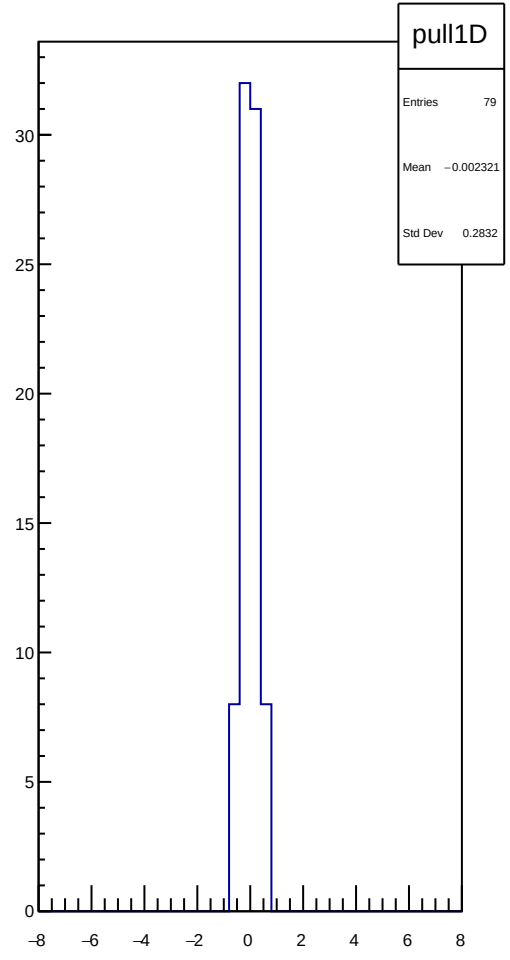

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.738 / 78
p0 13.91 ± 12.83
pull
Entries 79
Mean 318.4
Std Dev 0
pull1D
Entries 79
Mean −0.002399
Std Dev 0.2449

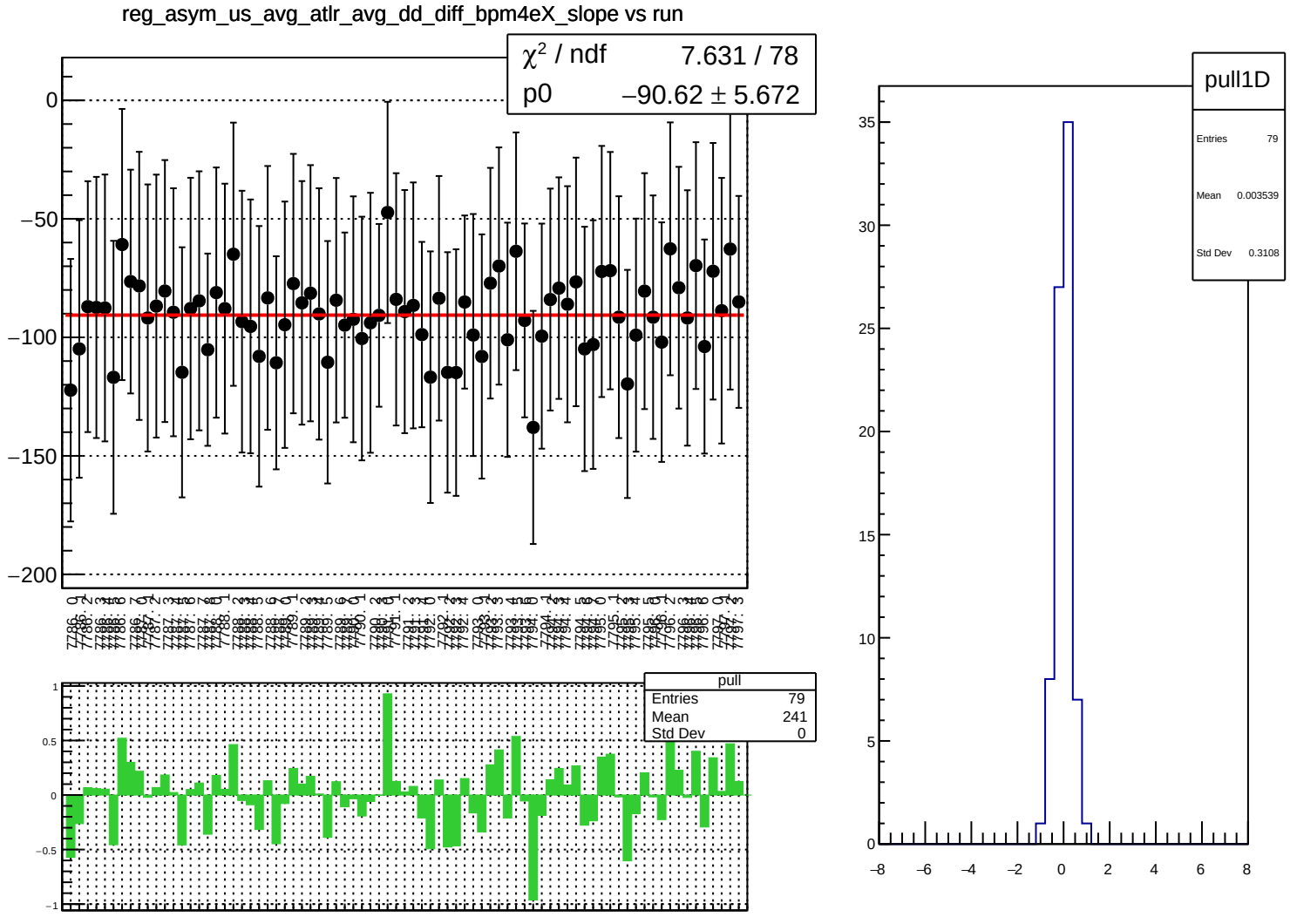

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 30.46 / 78
p0 −190.3 ± 0.3984
−180
−185
−190
−195
−200
−205
pull
Entries 79
Mean 225
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

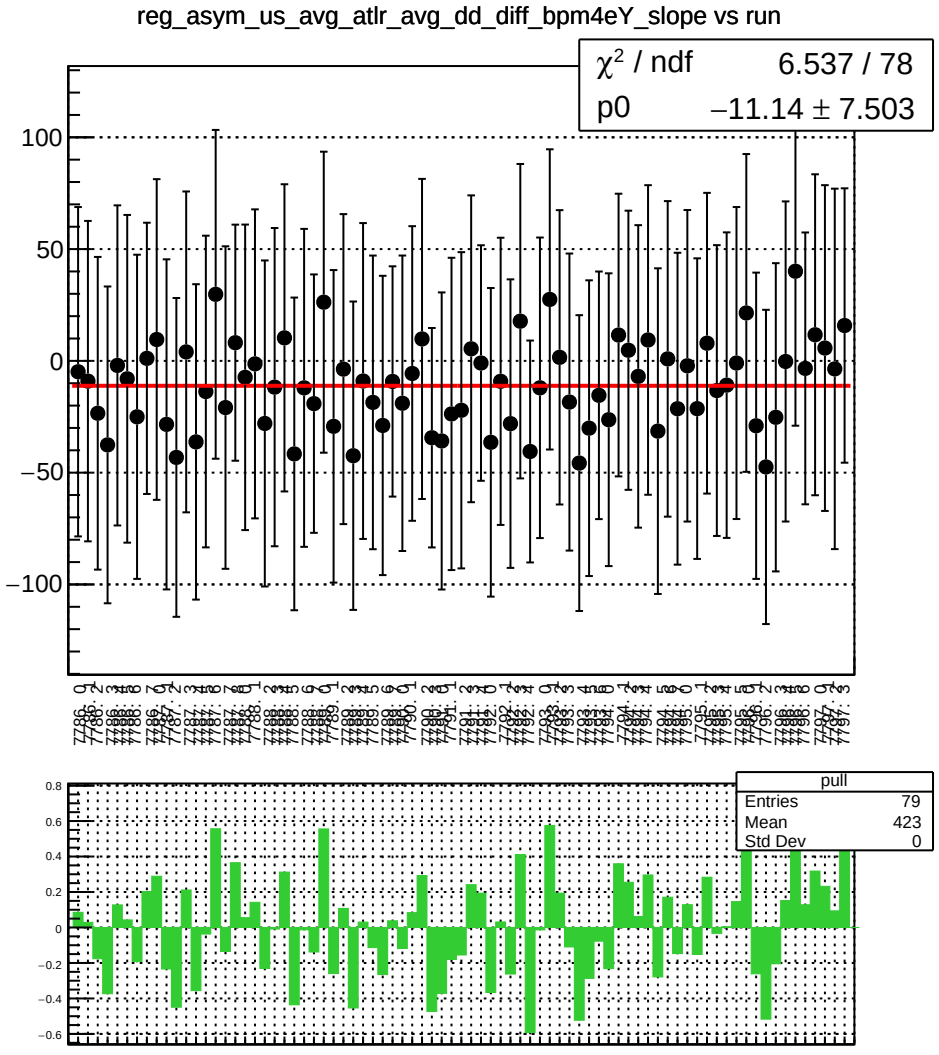

pull1D
Entries 79
Mean −0.0141
Std Dev 0.6208
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

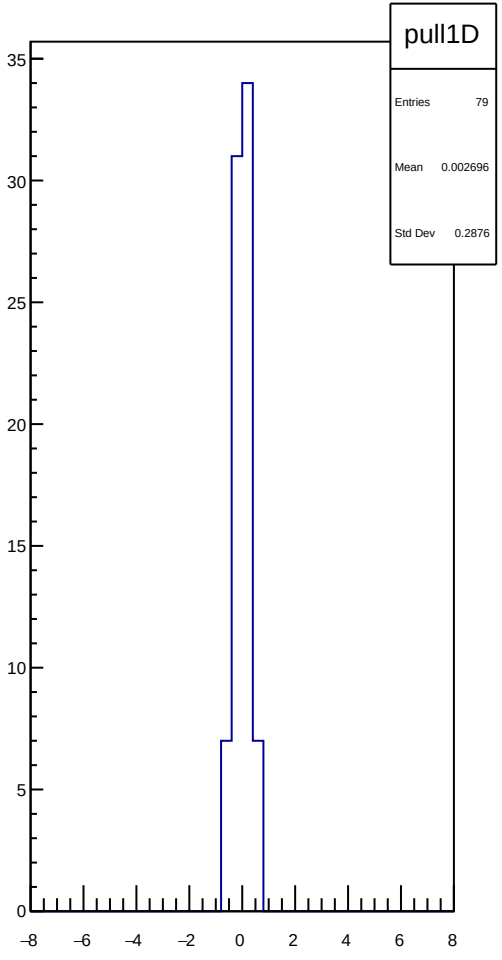

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 7.651 / 78
p0 94.73 ± 6.522
200
150
100
50
0
pull
Entries 79
Mean 169.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 79
Mean −0.003855
Std Dev 0.3112
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

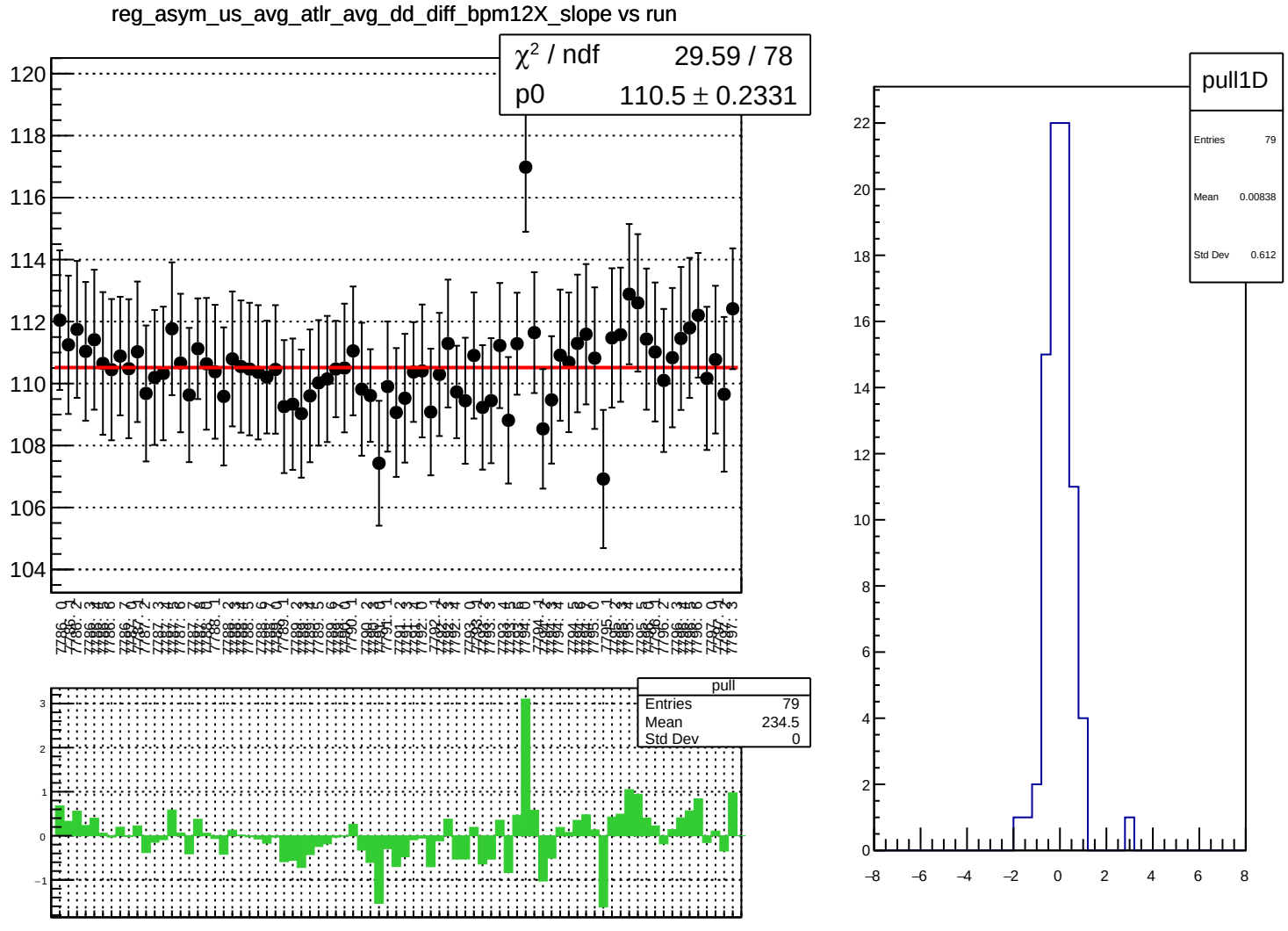

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.336 / 78
p0 −31.38 ± 6.619
pull
Entries 79
Mean 437.3
Std Dev 0

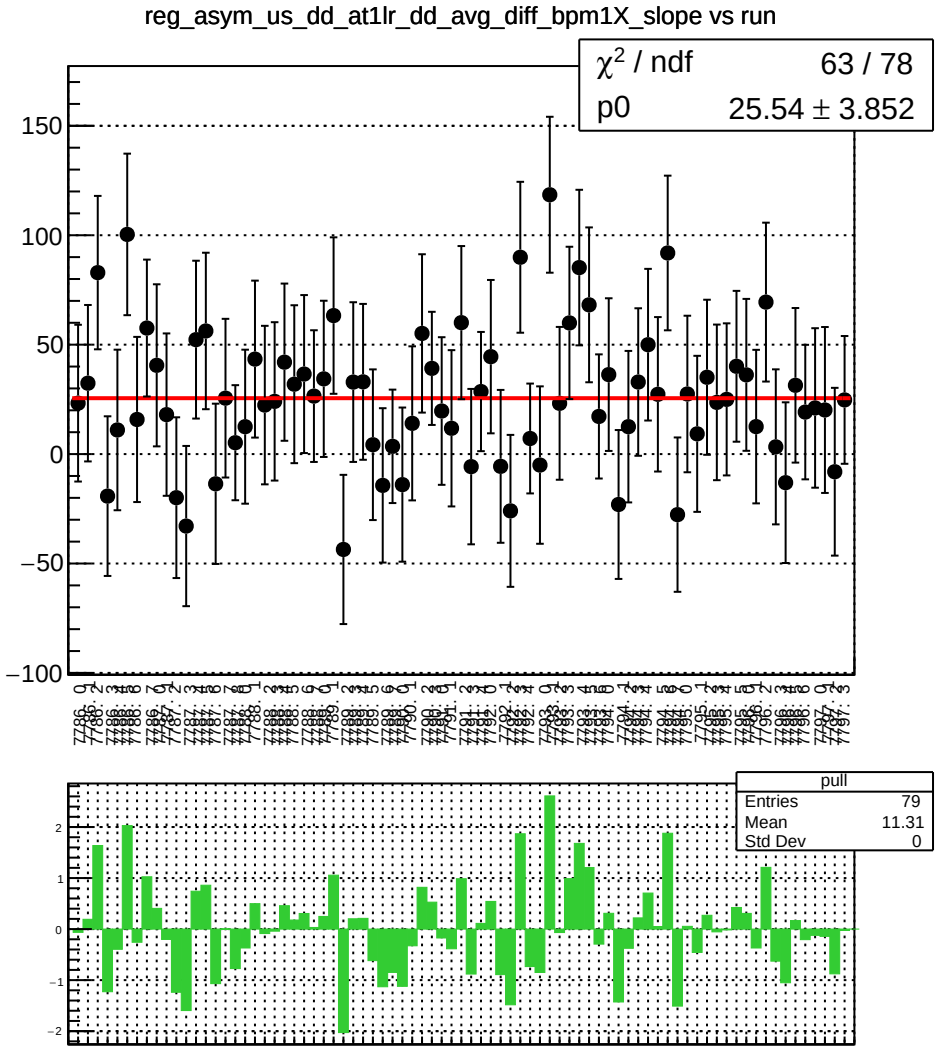

pull1D
Entries 79
Mean −0.002321
Std Dev 0.2832

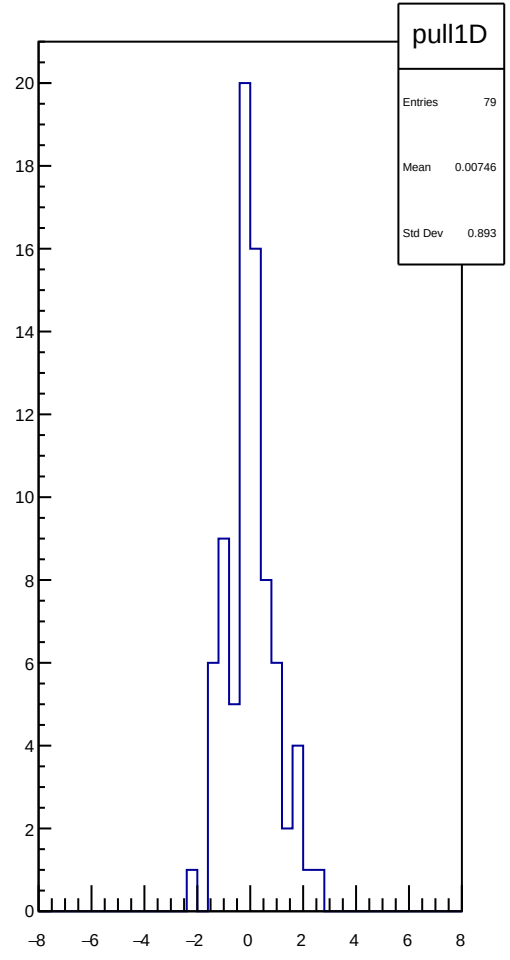

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.631 / 78
p0 −90.62 ± 5.672
pull
Entries 79
Mean 241
Std Dev 0
pull1D
Entries 79
Mean 0.003539
Std Dev 0.3108

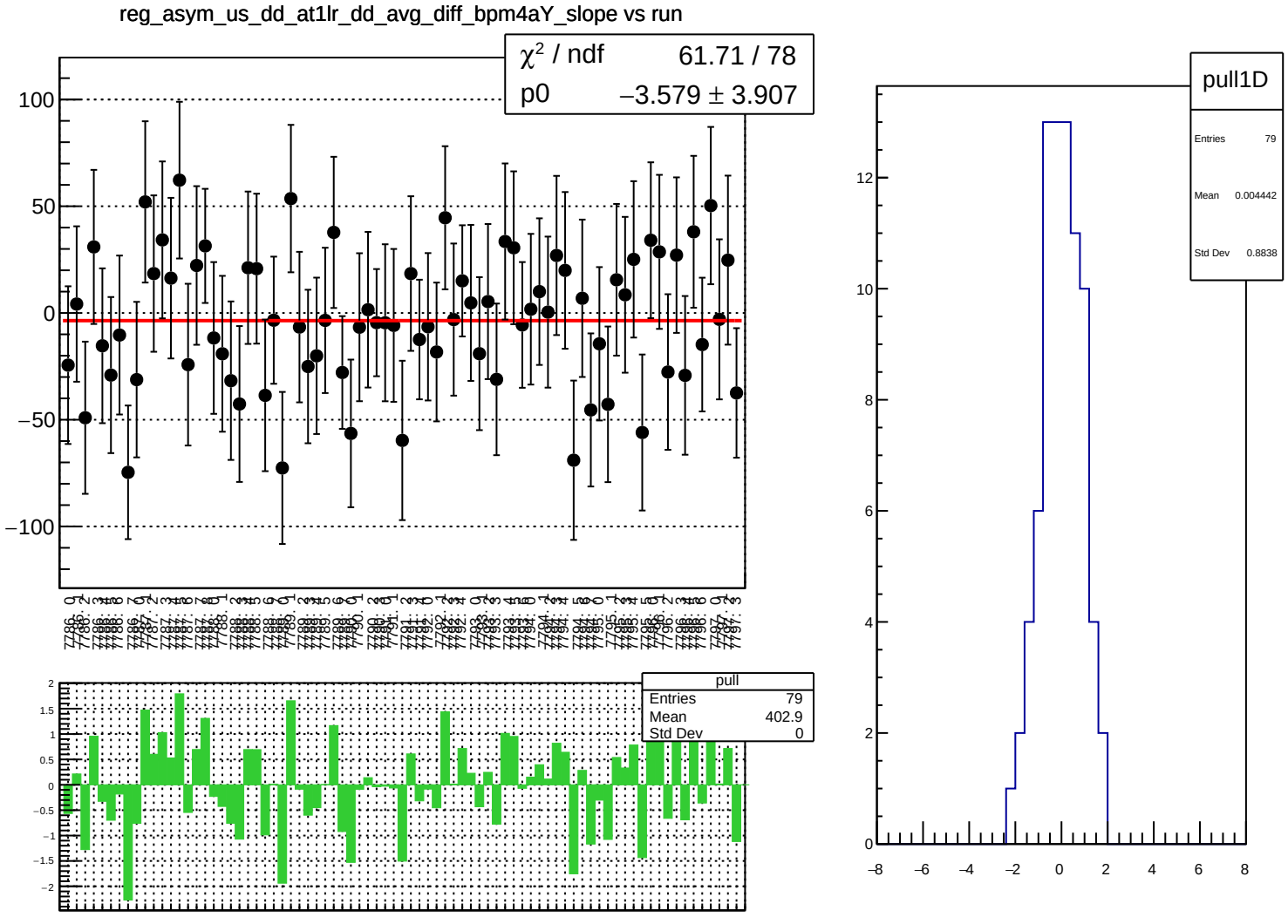

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.537 / 78
p0 −11.14 ± 7.503
pull
Entries 79
Mean 423
Std Dev 0

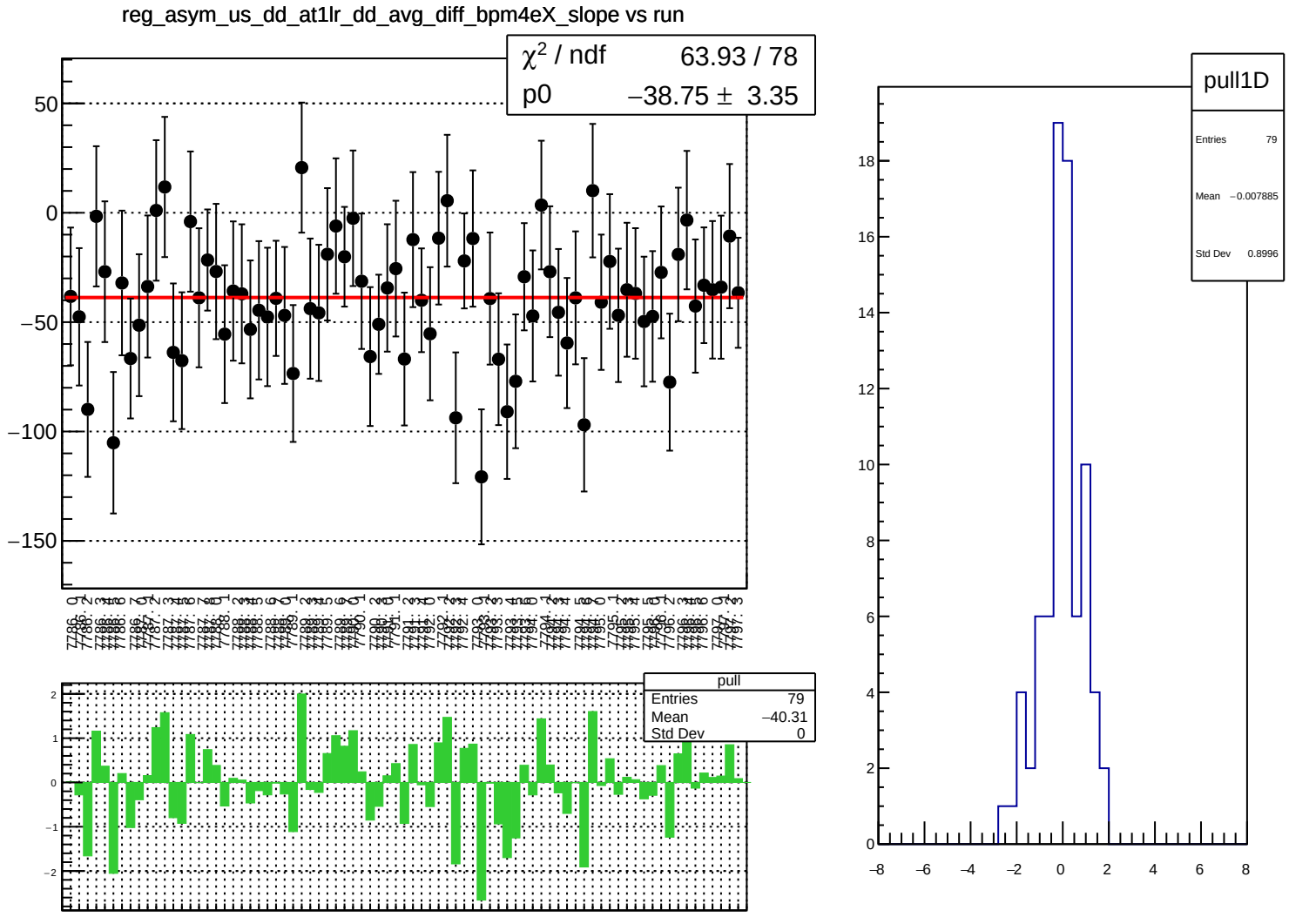

pull1D
Entries 79
Mean 0.002696
Std Dev 0.2876

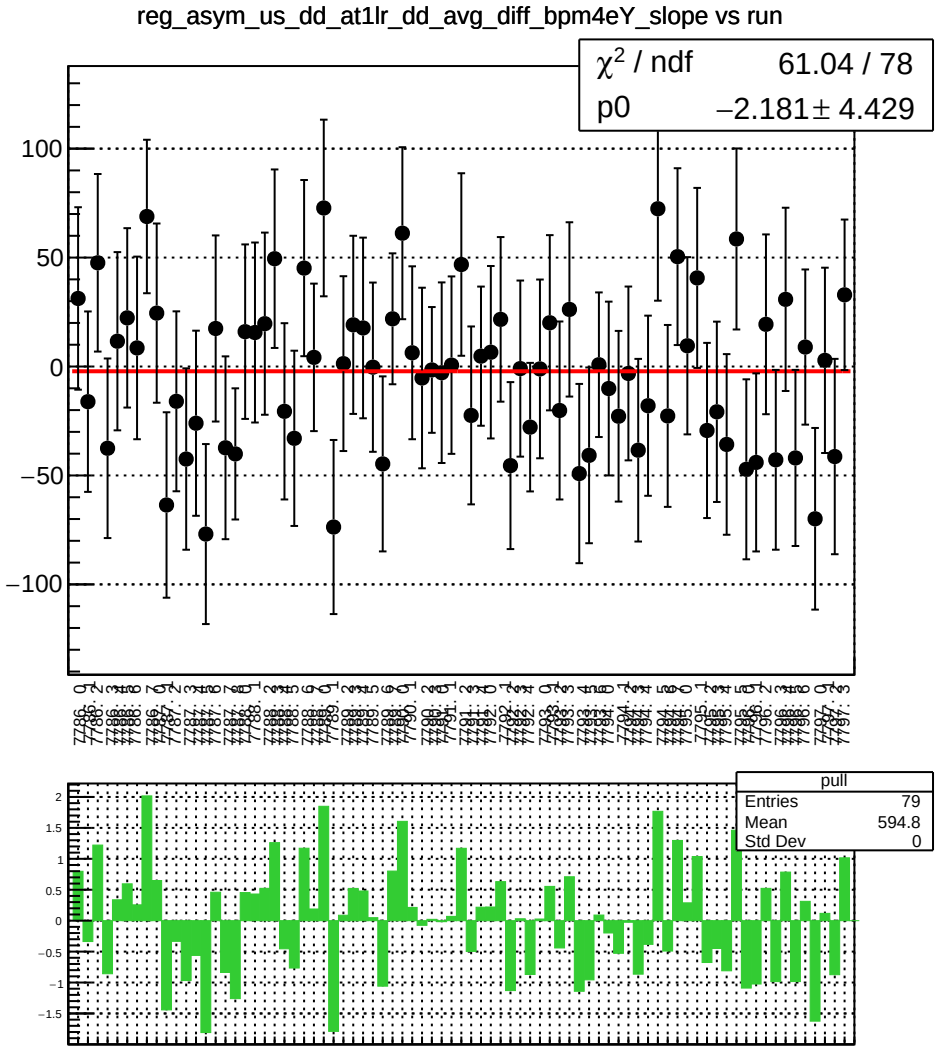

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 29.59 / 78
p0 110.5 ± 0.2331
pull
Entries 79
Mean 234.5
Std Dev 0
pull1D
Entries 79
Mean 0.00838
Std Dev 0.612

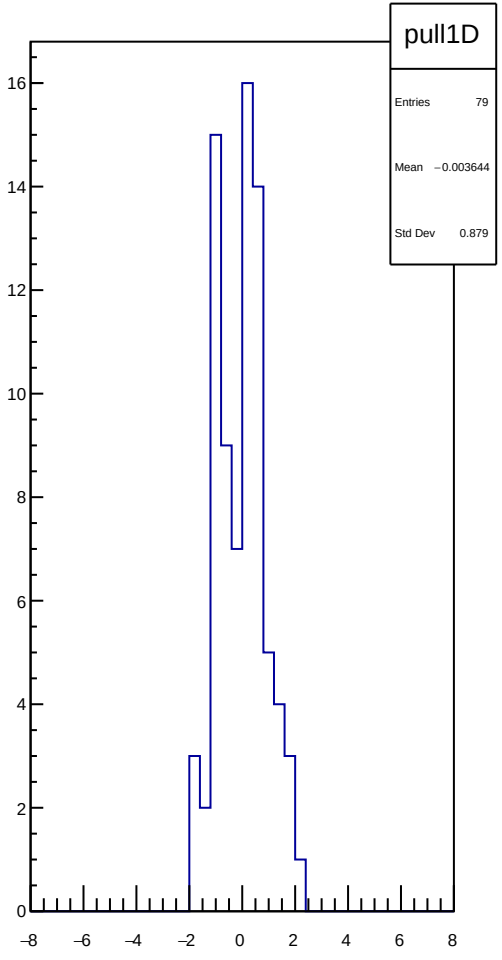

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 63 / 78
p0 25.54 ± 3.852
150
100
50
0
−50
−100
pull
Entries 79
Mean 11.31
Std Dev 0
2
1
0
−1
−2

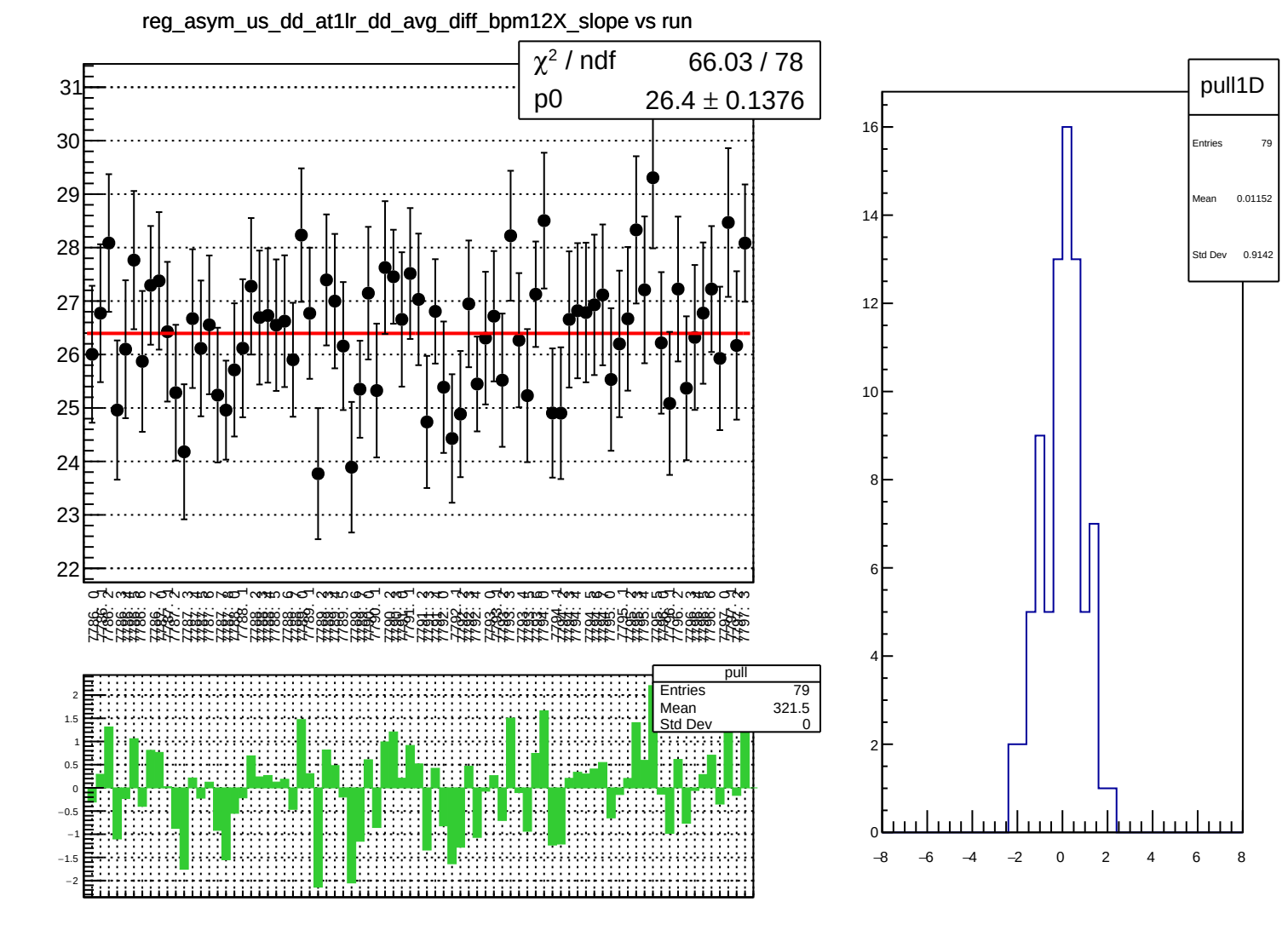

pull1D
Entries 79
Mean 0.00746
Std Dev 0.893
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

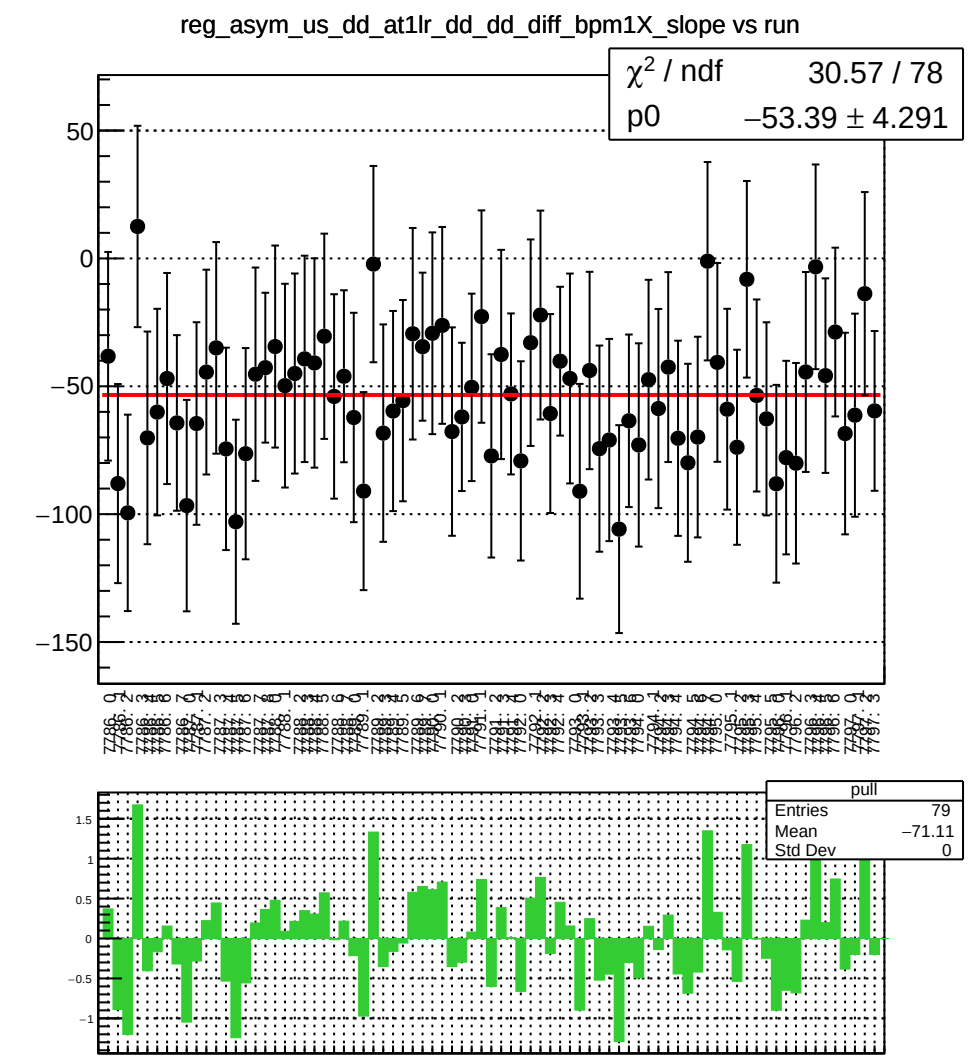

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.71 / 78
p0 −3.579 ± 3.907
pull
Entries 79
Mean 402.9
Std Dev 0
pull1D
Entries 79
Mean 0.004442
Std Dev 0.8838

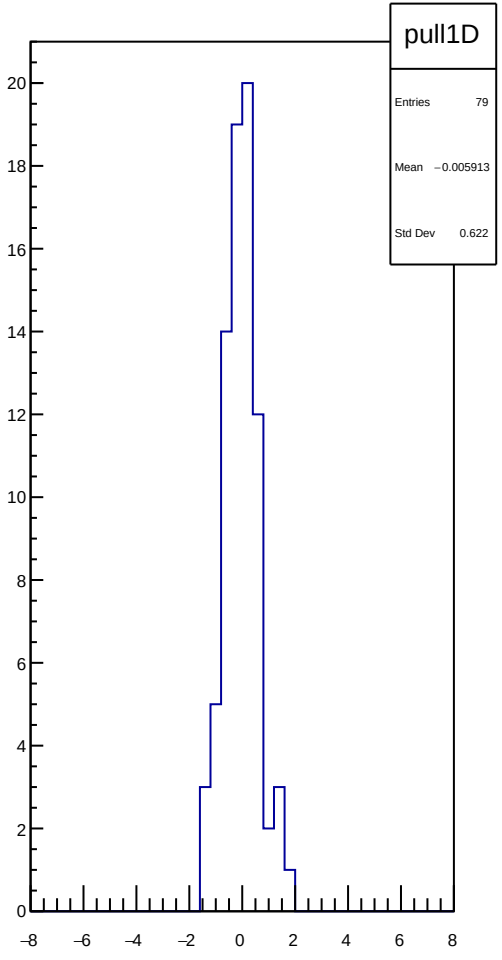

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.93 / 78
p0 −38.75 ± 3.35
50
0
−50
−100
−150
pull
Entries 79
Mean −40.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 79
Mean −0.007885
Std Dev 0.8996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

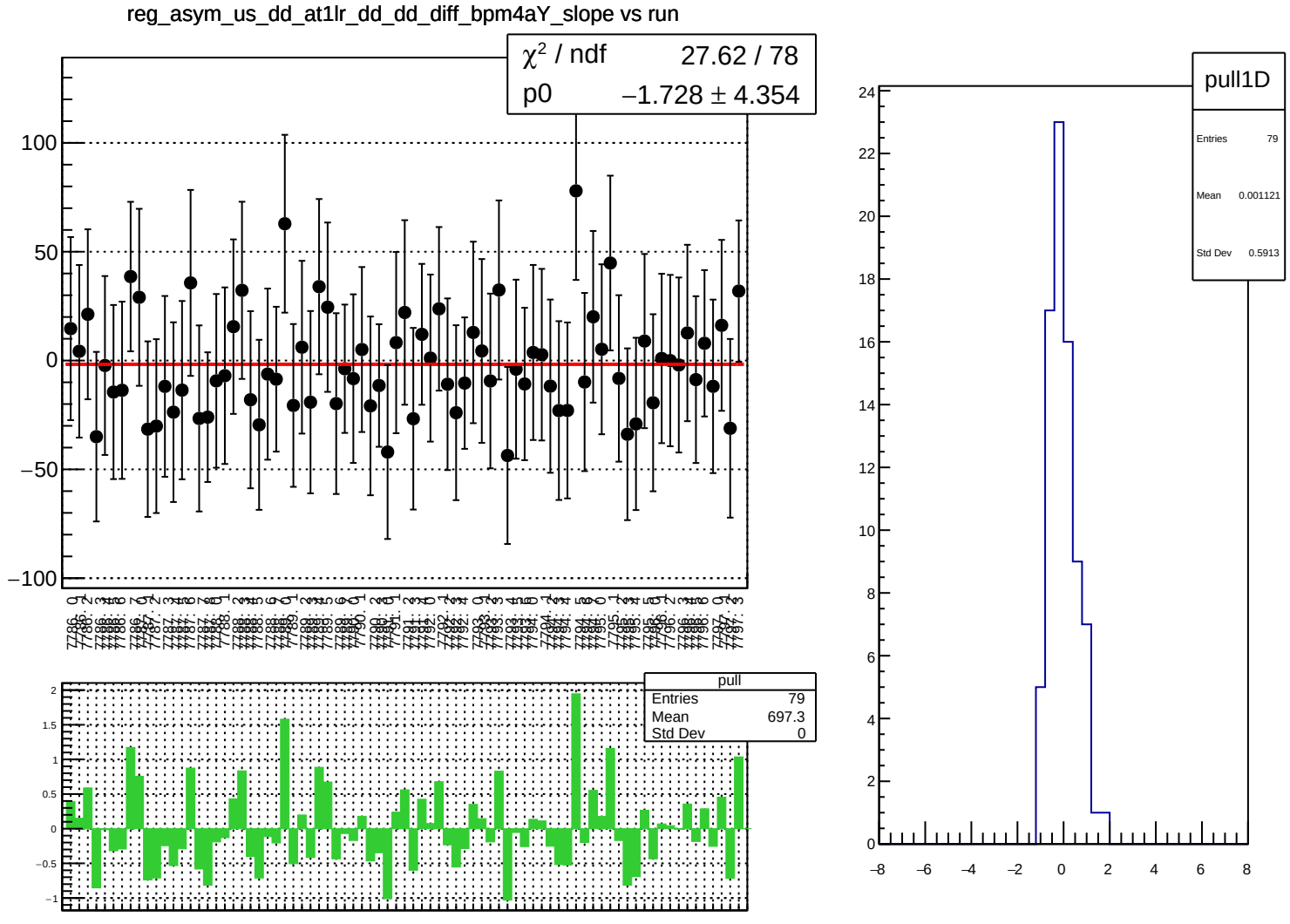

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.04 / 78
p0 −2.181 ± 4.429
pull
Entries 79
Mean 594.8
Std Dev 0

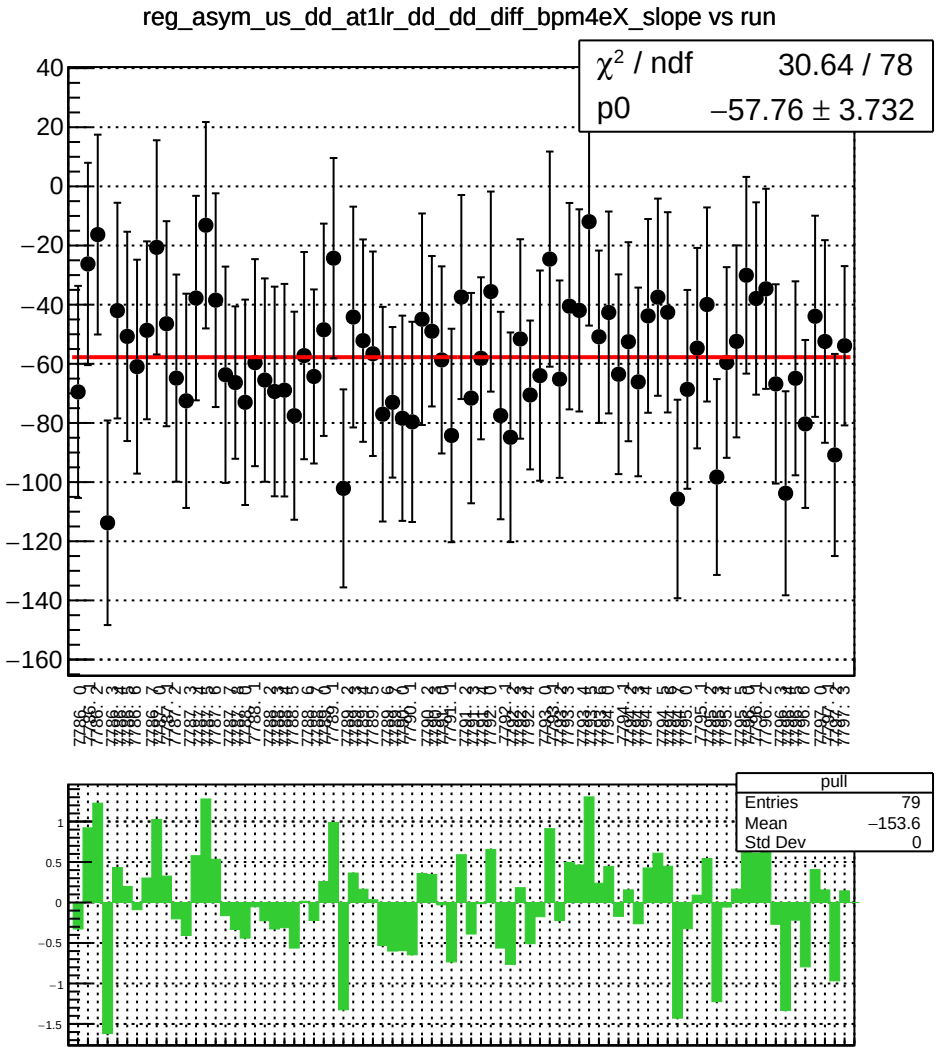

pull1D
Entries 79
Mean −0.003644
Std Dev 0.879

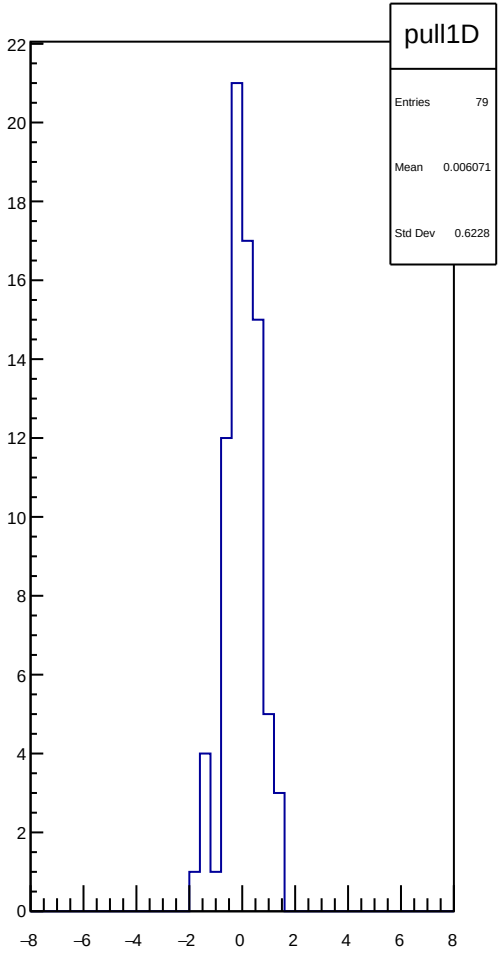

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 66.03 / 78
p0 26.4 ± 0.1376
pull
Entries 79
Mean 321.5
Std Dev 0
pull1D
Entries 79
Mean 0.01152
Std Dev 0.9142

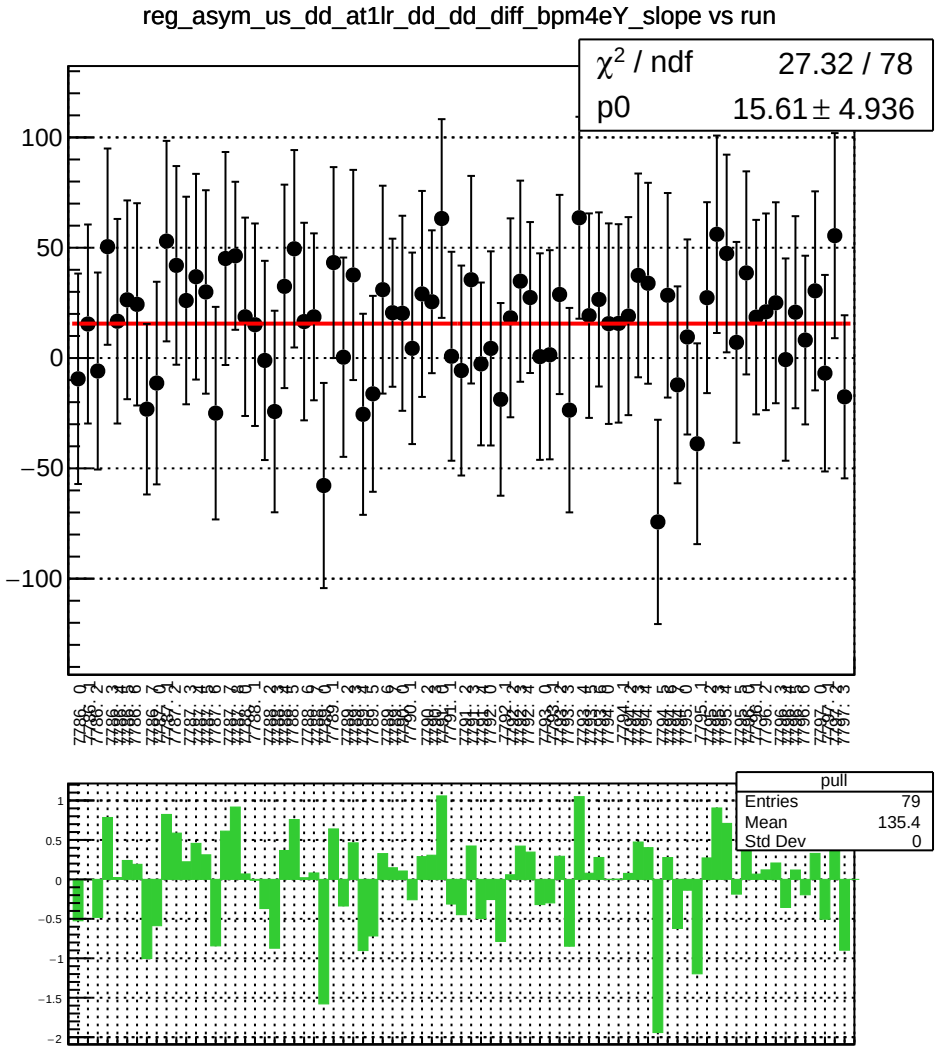

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 30.57 / 78
p0 −53.39 ± 4.291
pull
Entries 79
Mean −71.11
Std Dev 0

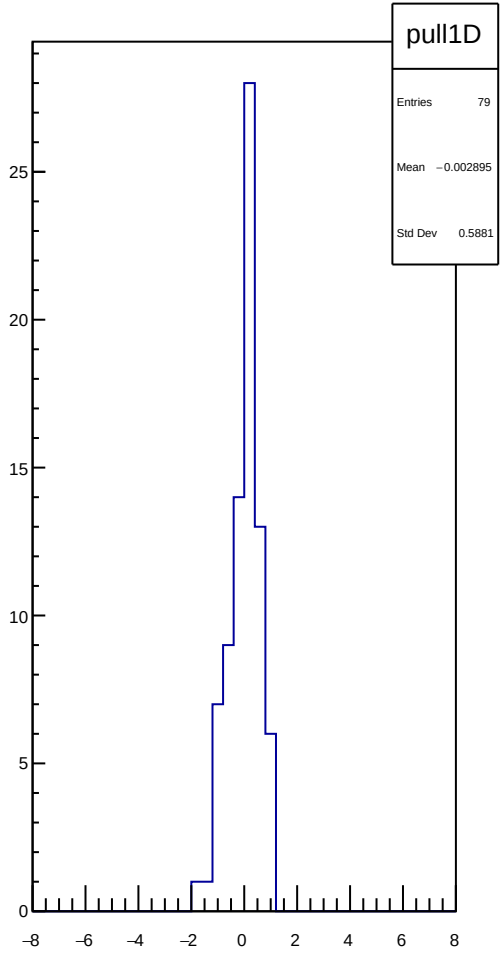

pull1D
Entries 79
Mean −0.005913
Std Dev 0.622

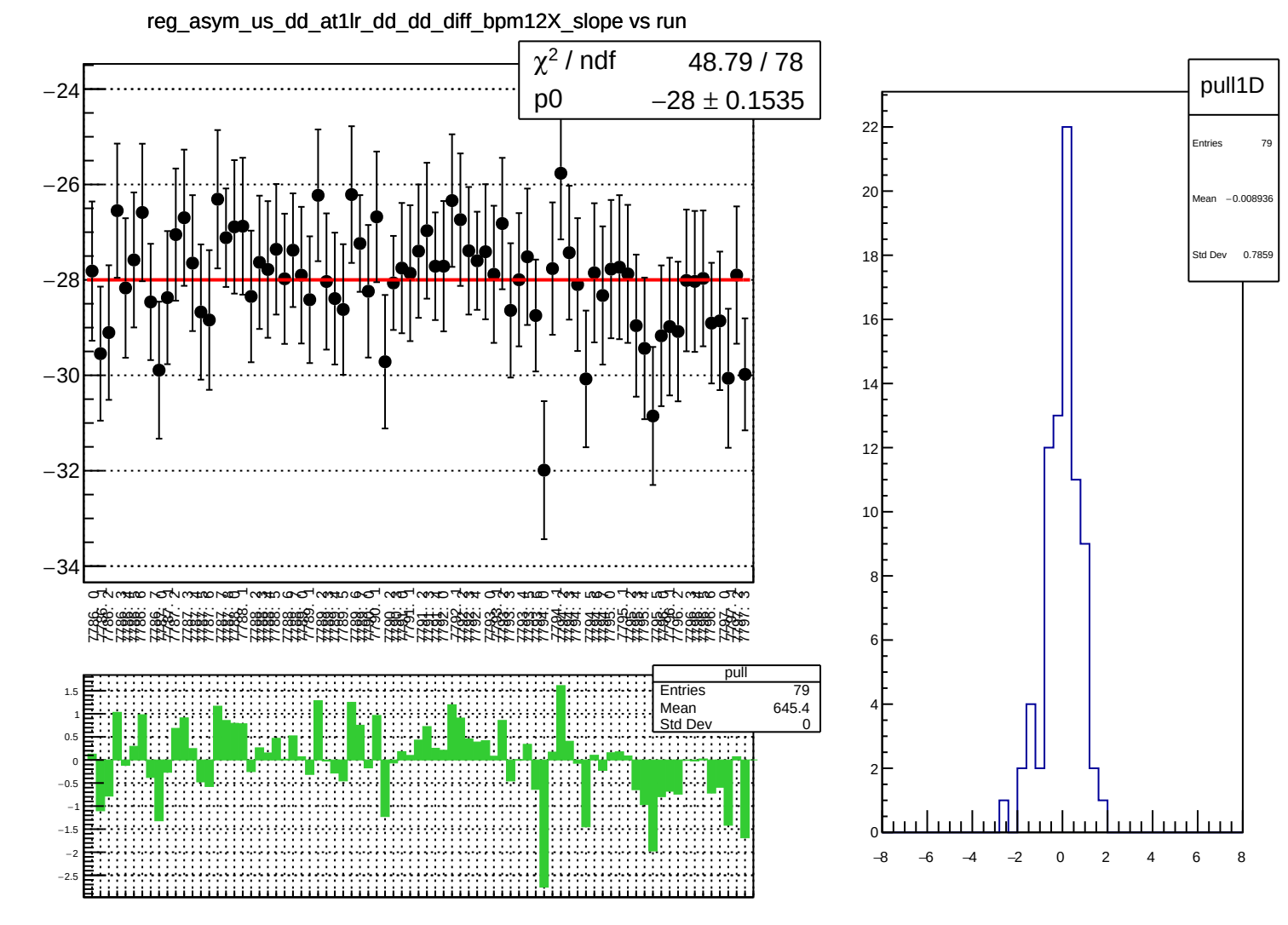

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.62 / 78
p0 −1.728 ± 4.354
pull
Entries 79
Mean 697.3
Std Dev 0
pull1D
Entries 79
Mean 0.001121
Std Dev 0.5913

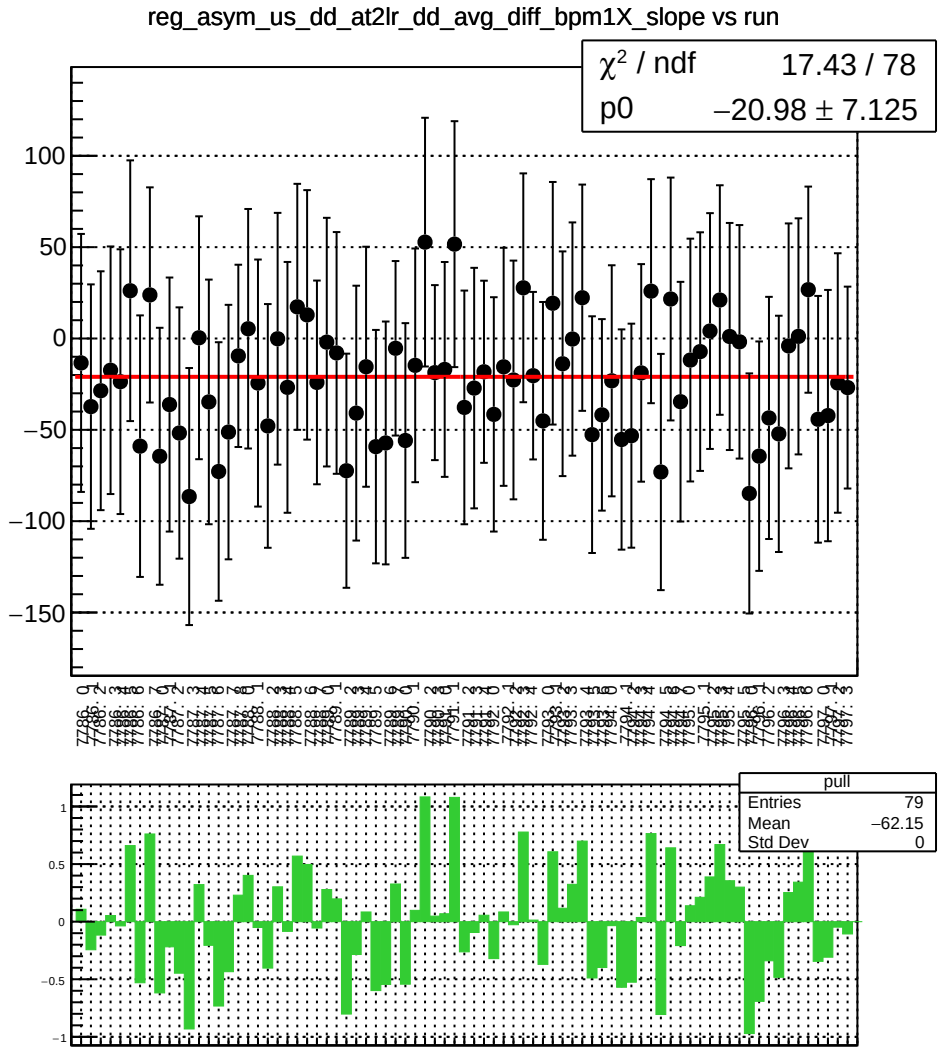

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.64 / 78
p0 −57.76 ± 3.732
pull
Entries 79
Mean −153.6
Std Dev 0

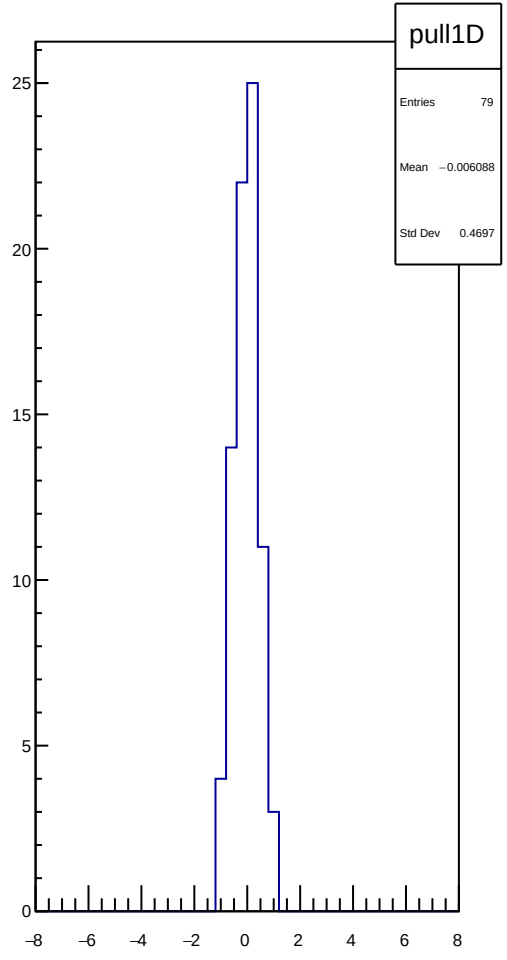

pull1D
Entries 79
Mean 0.006071
Std Dev 0.6228

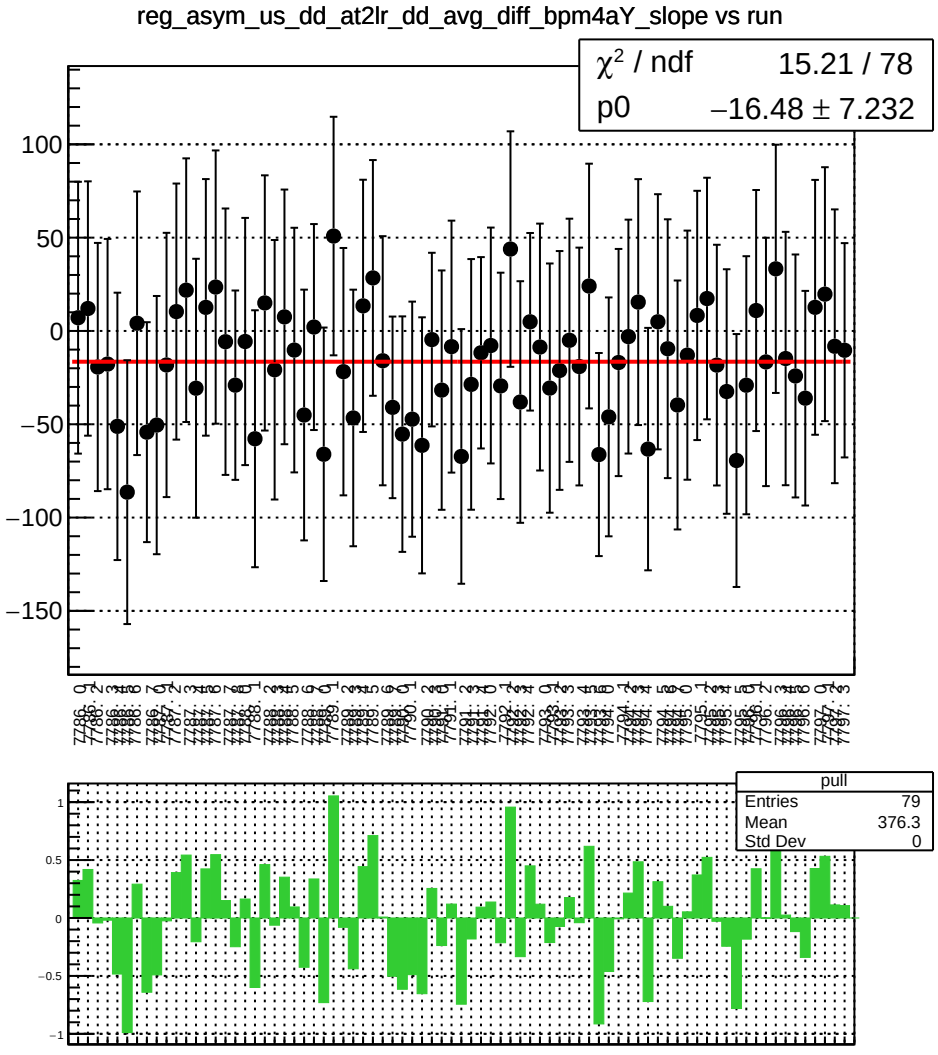

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.32 / 78
p0 15.61 ± 4.936
100
50
0
−50
−100
pull
Entries 79
Mean 135.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

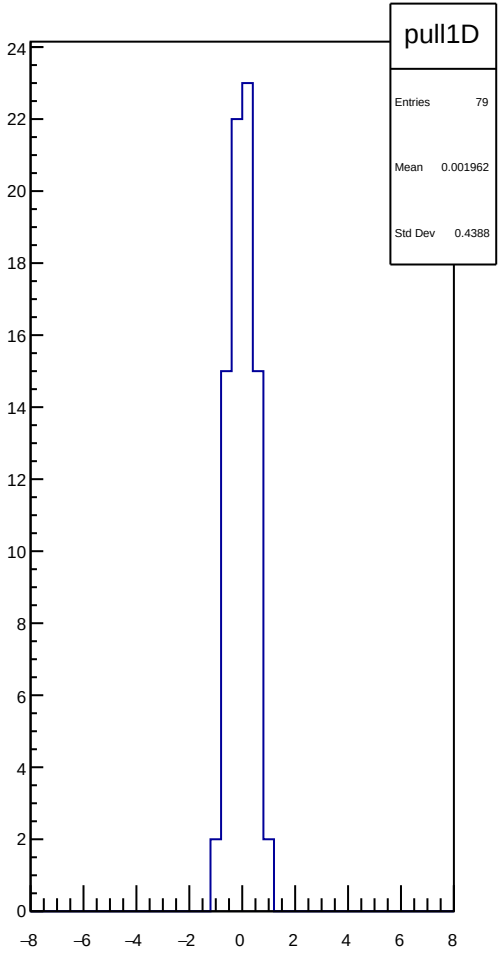

pull1D
Entries 79
Mean −0.002895
Std Dev 0.5881
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

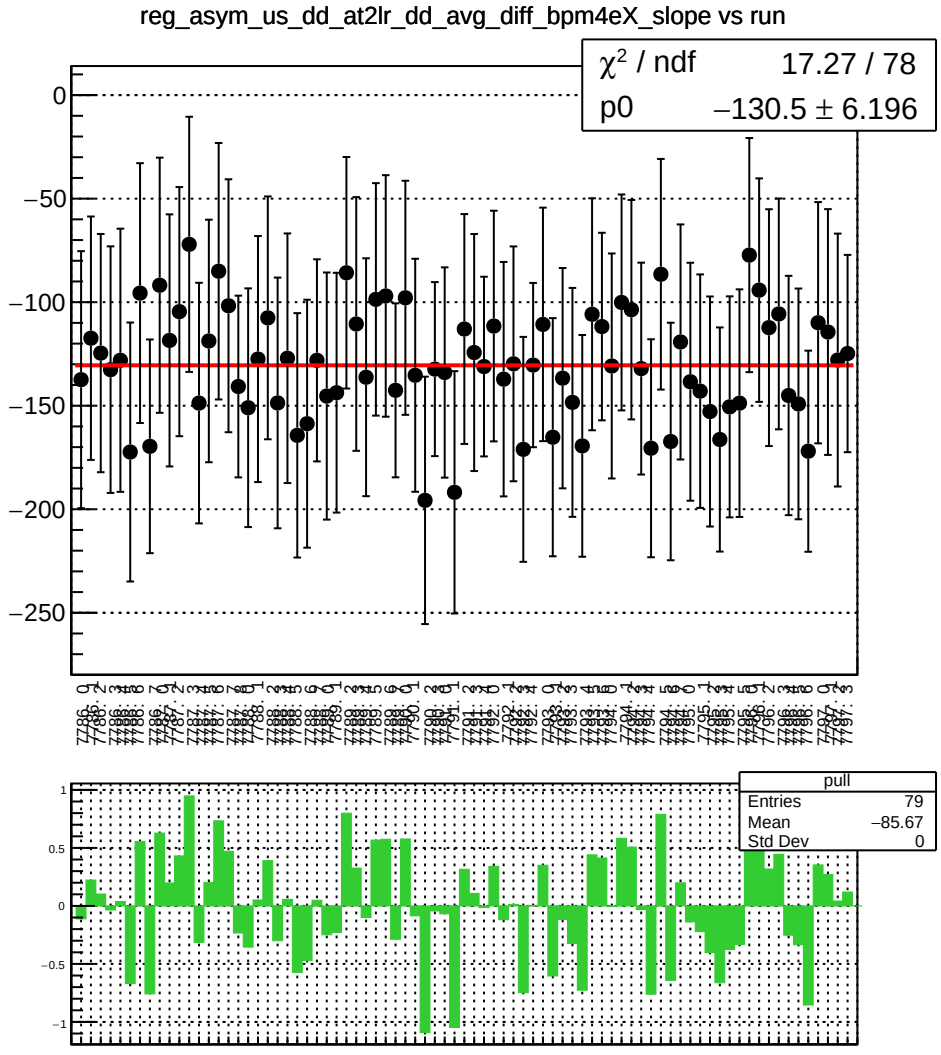

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 48.79 / 78
p0 −28 ± 0.1535
pull
Entries 79
Mean 645.4
Std Dev 0
pull1D
Entries 79
Mean −0.008936
Std Dev 0.7859

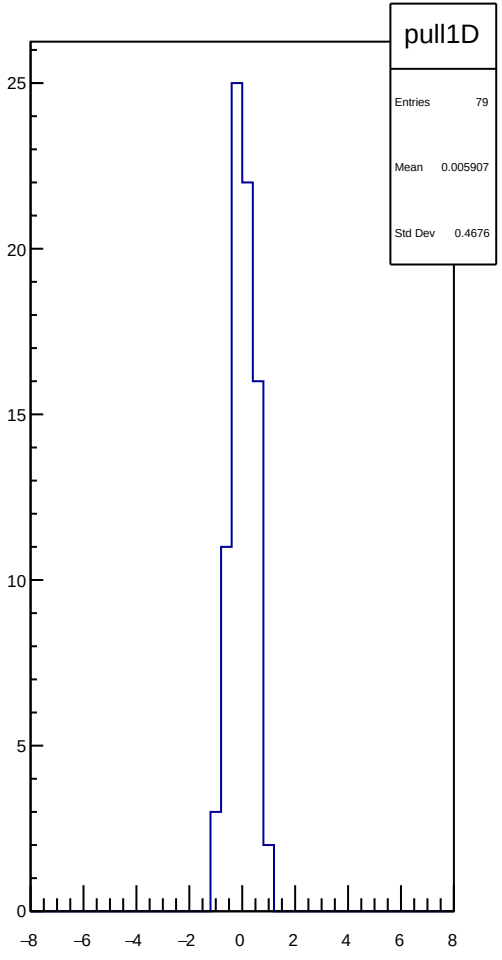

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 17.43 / 78
p0 −20.98 ± 7.125
pull
Entries 79
Mean −62.15
Std Dev 0

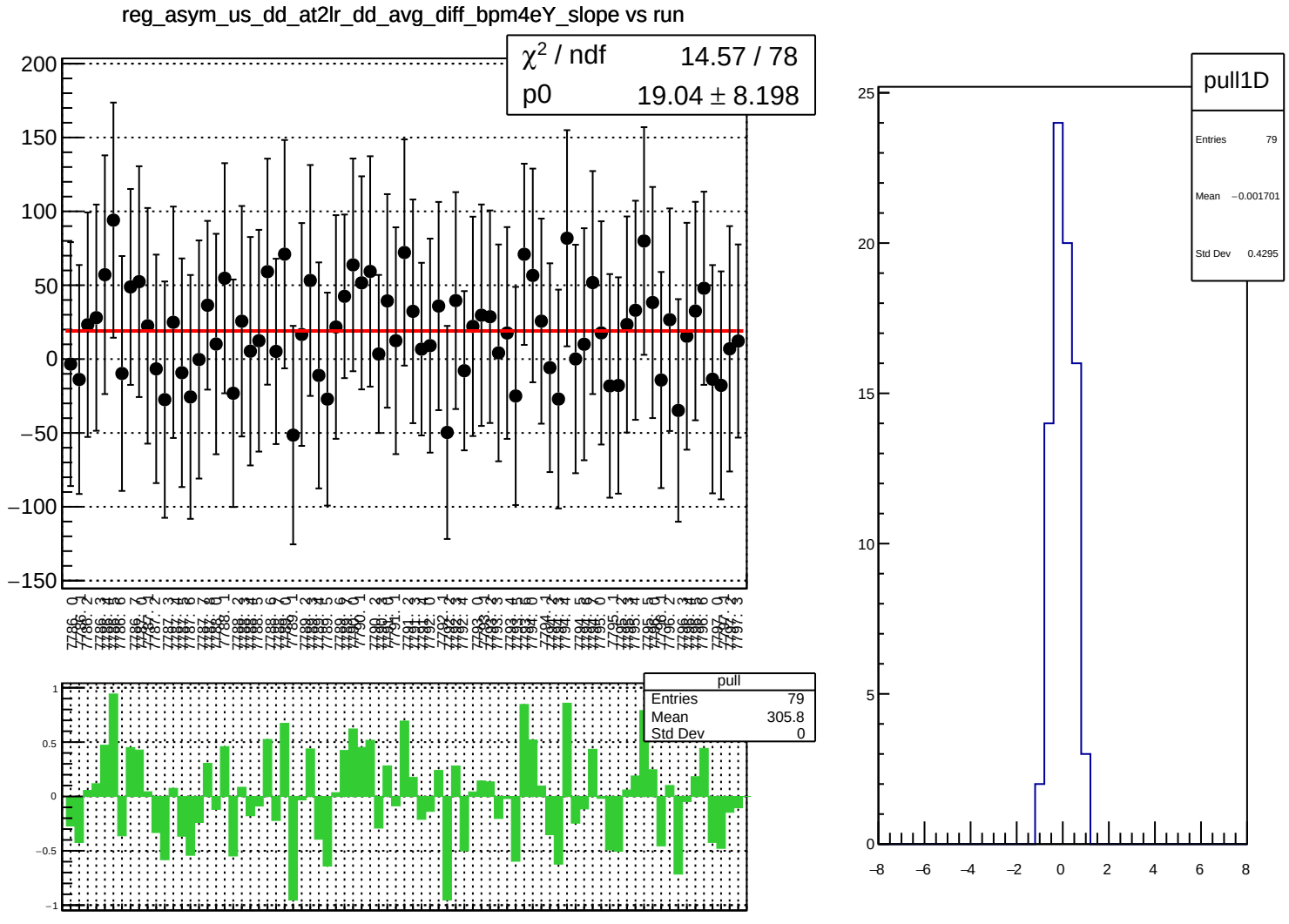

pull1D
Entries 79
Mean −0.006088
Std Dev 0.4697

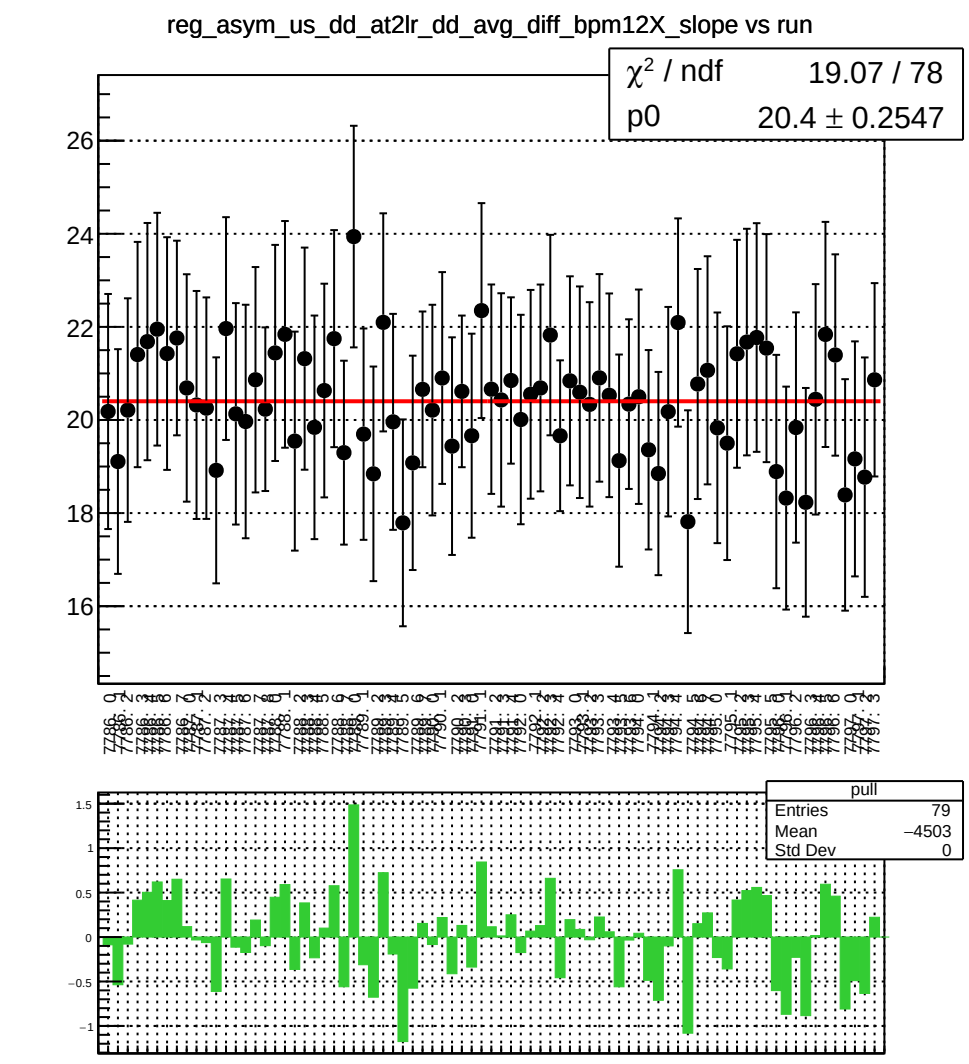

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.21 / 78
p0 −16.48 ± 7.232
pull
Entries 79
Mean 376.3
Std Dev 0

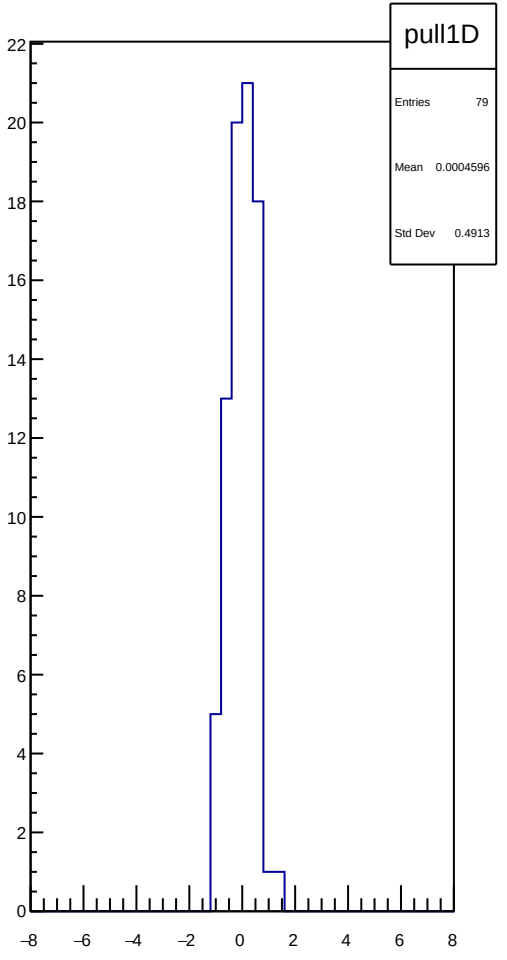

pull1D
Entries 79
Mean 0.001962
Std Dev 0.4388

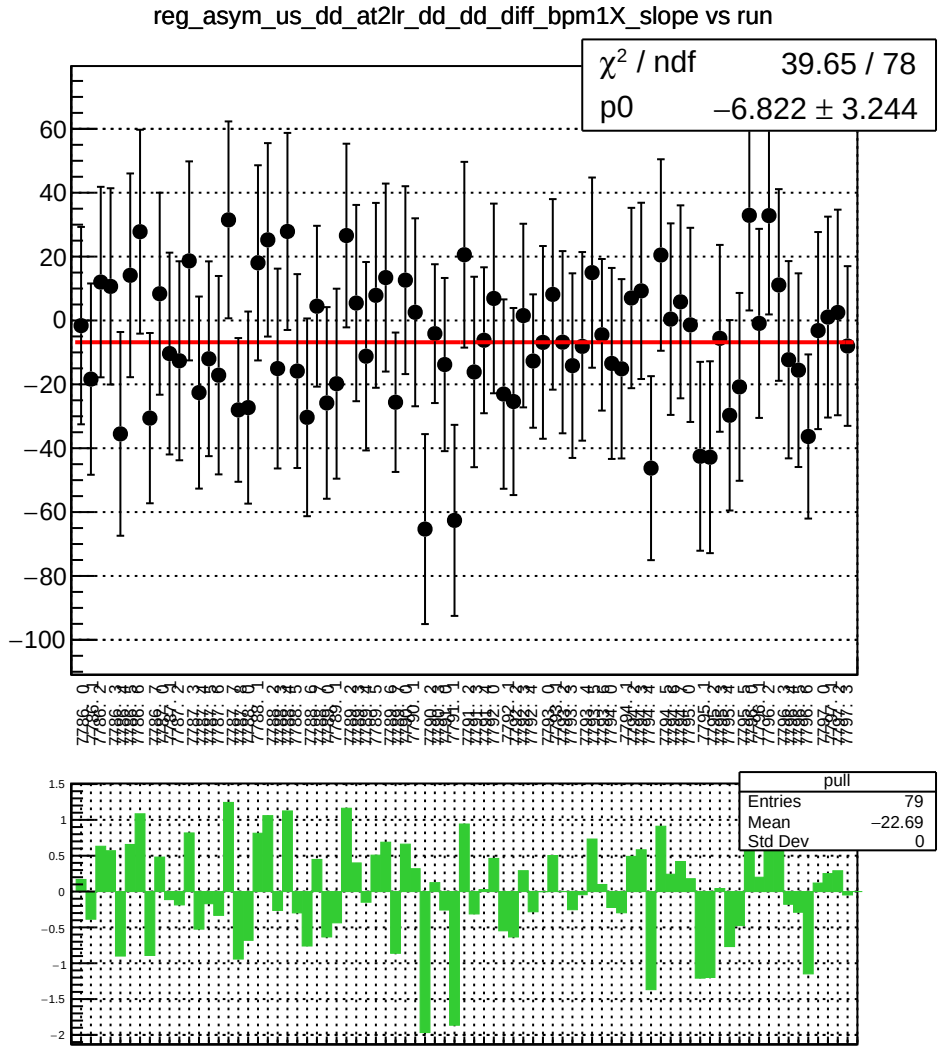

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.27 / 78
p0 −130.5 ± 6.196
pull
Entries 79
Mean −85.67
Std Dev 0

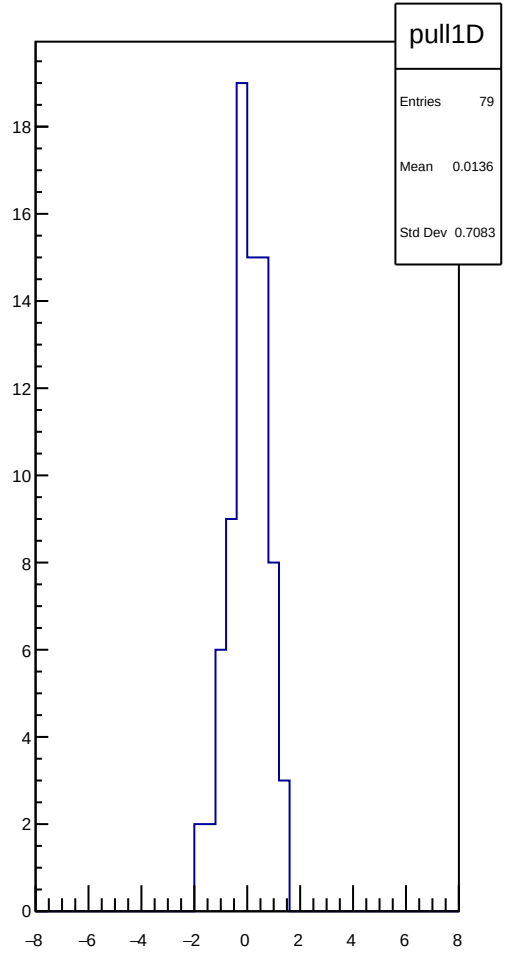

pull1D
Entries 79
Mean 0.005907
Std Dev 0.4676

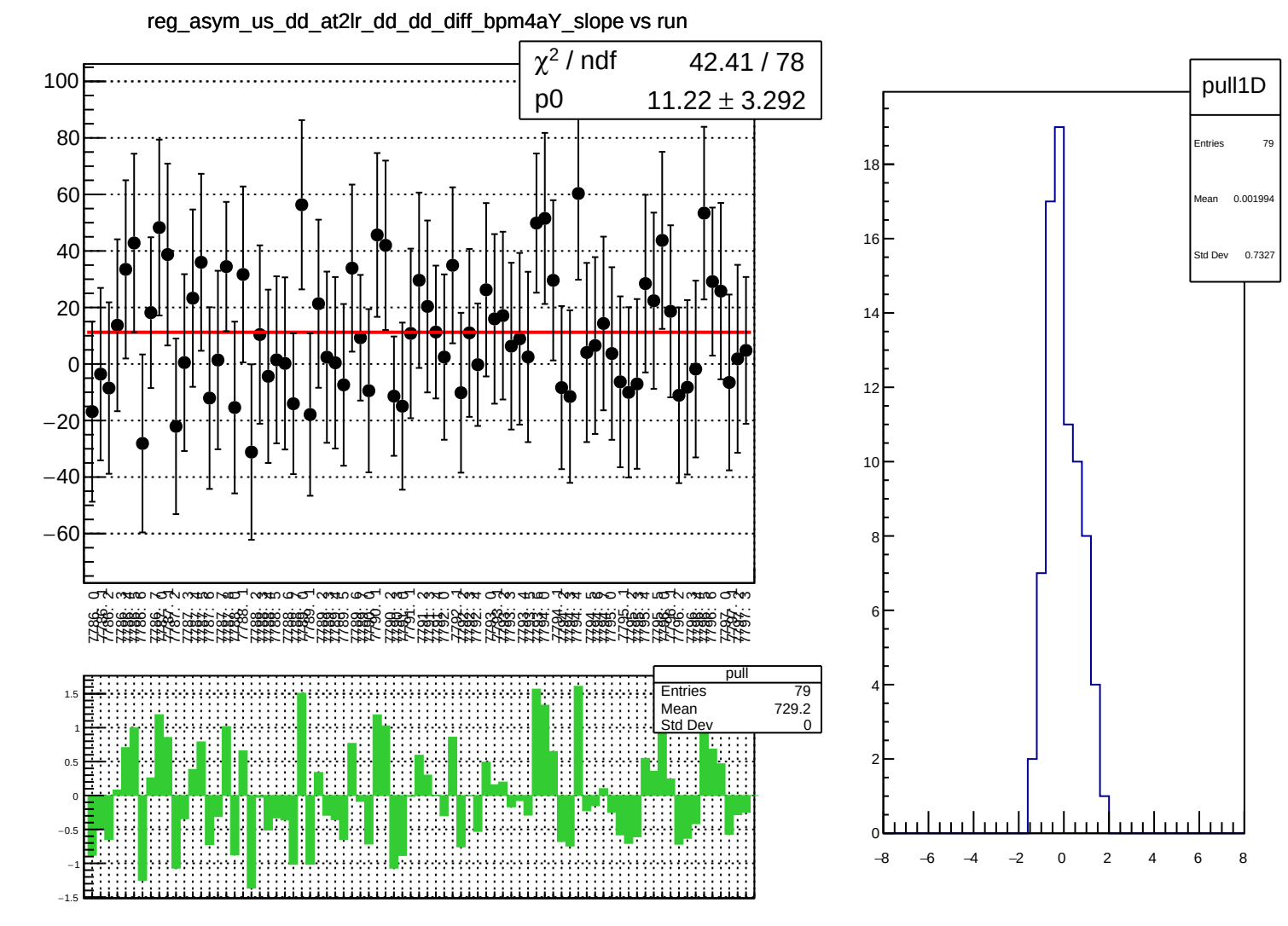

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.57 / 78
p0 19.04 ± 8.198
pull
Entries 79
Mean 305.8
Std Dev 0
pull1D
Entries 79
Mean −0.001701
Std Dev 0.4295

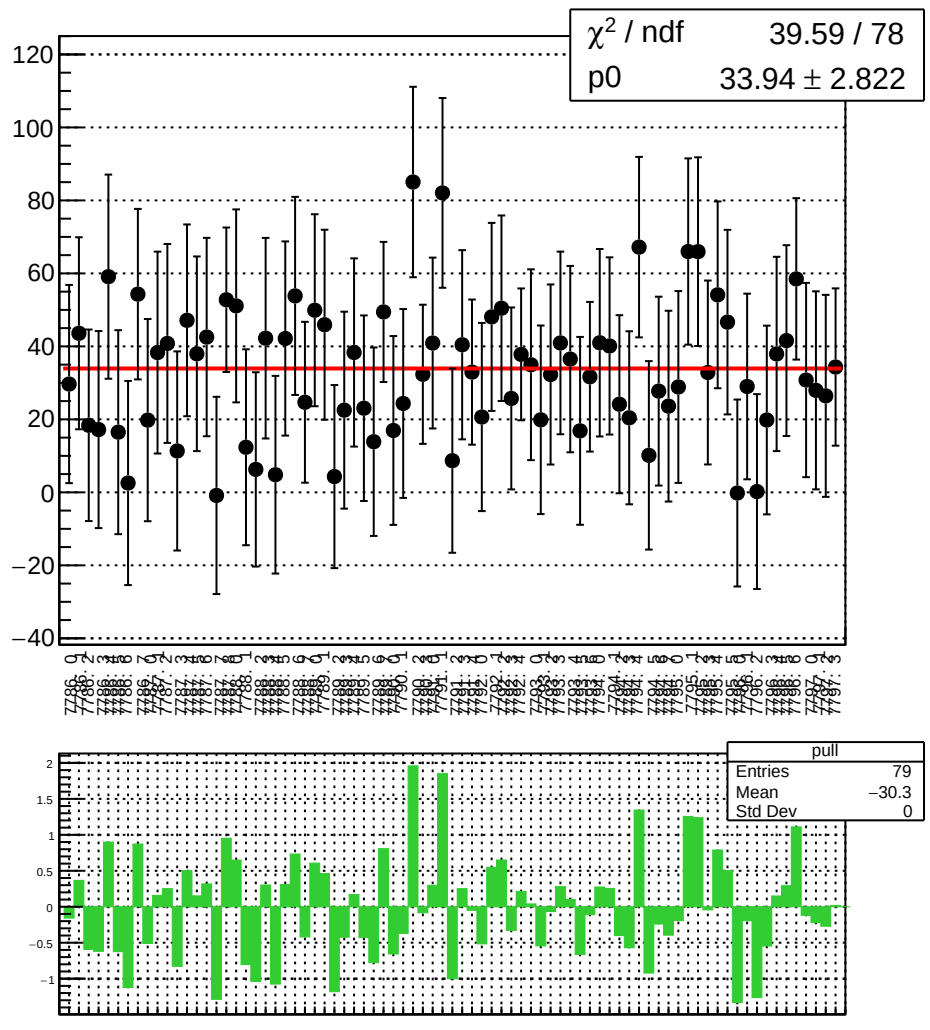

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 19.07 / 78
p0 20.4 ± 0.2547
pull
Entries 79
Mean −4503
Std Dev 0

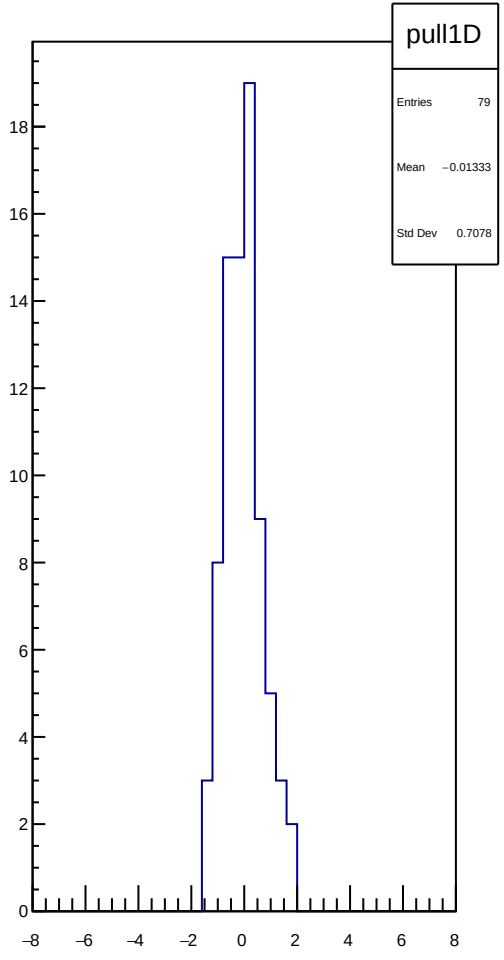

pull1D
Entries 79
Mean 0.0004596
Std Dev 0.4913

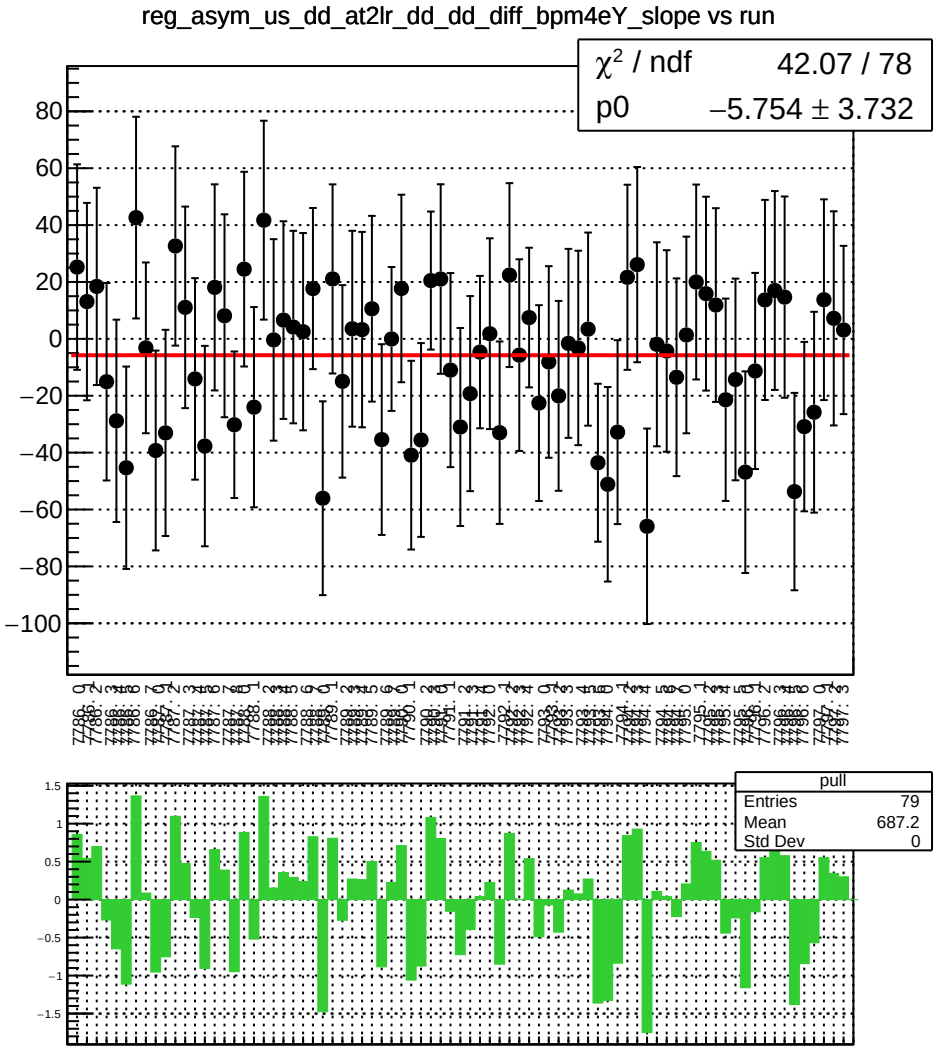

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 39.65 / 78
p0 −6.822 ± 3.244
pull
Entries 79
Mean −22.69
Std Dev 0

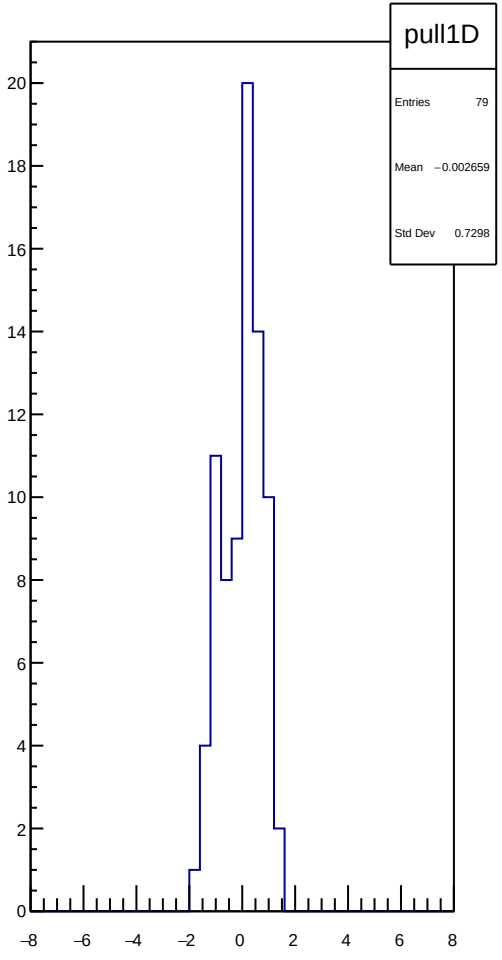

pull1D
Entries 79
Mean 0.0136
Std Dev 0.7083

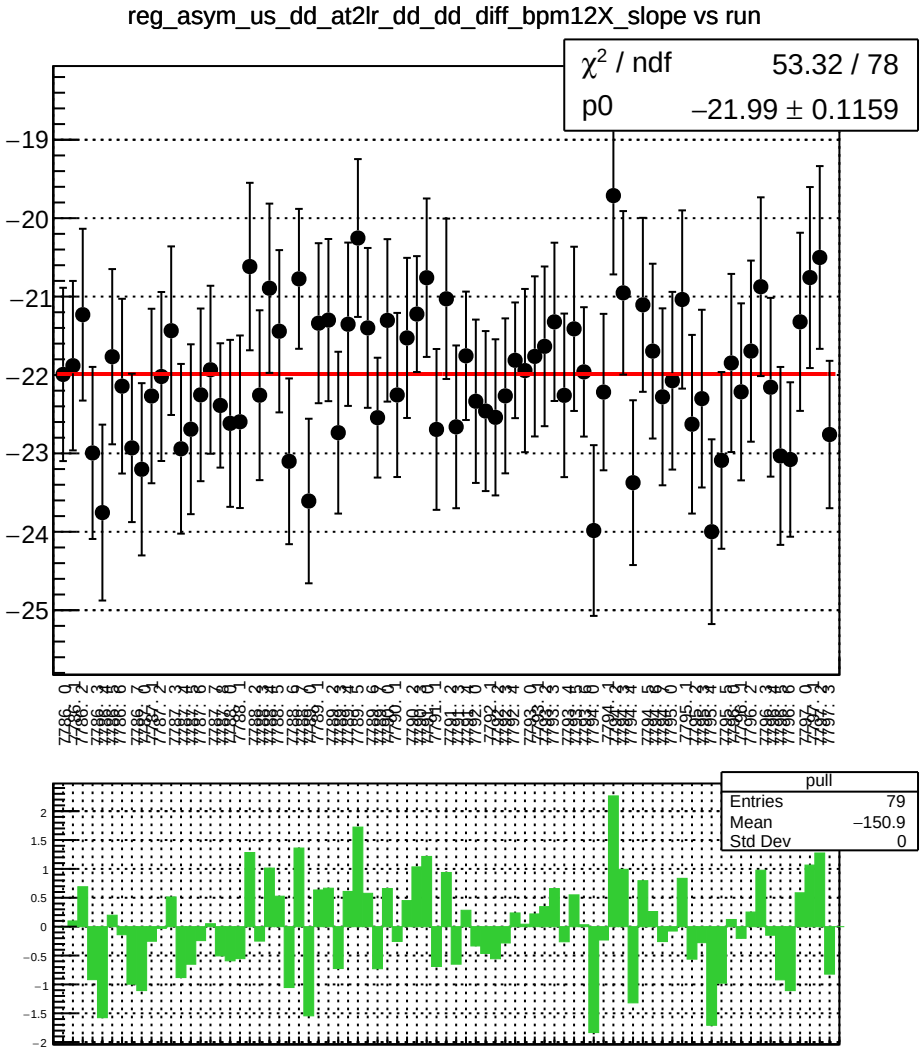

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.41 / 78
p0 11.22 ± 3.292
pull
Entries 79
Mean 729.2
Std Dev 0
pull1D
Entries 79
Mean 0.001994
Std Dev 0.7327

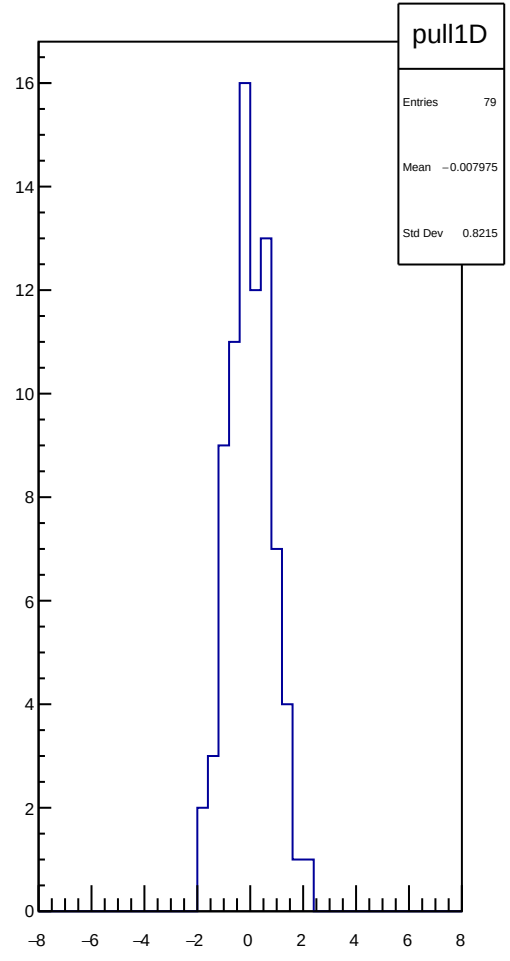

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.59 / 78
p0 33.94 ± 2.822
pull
Entries 79
Mean −30.3
Std Dev 0

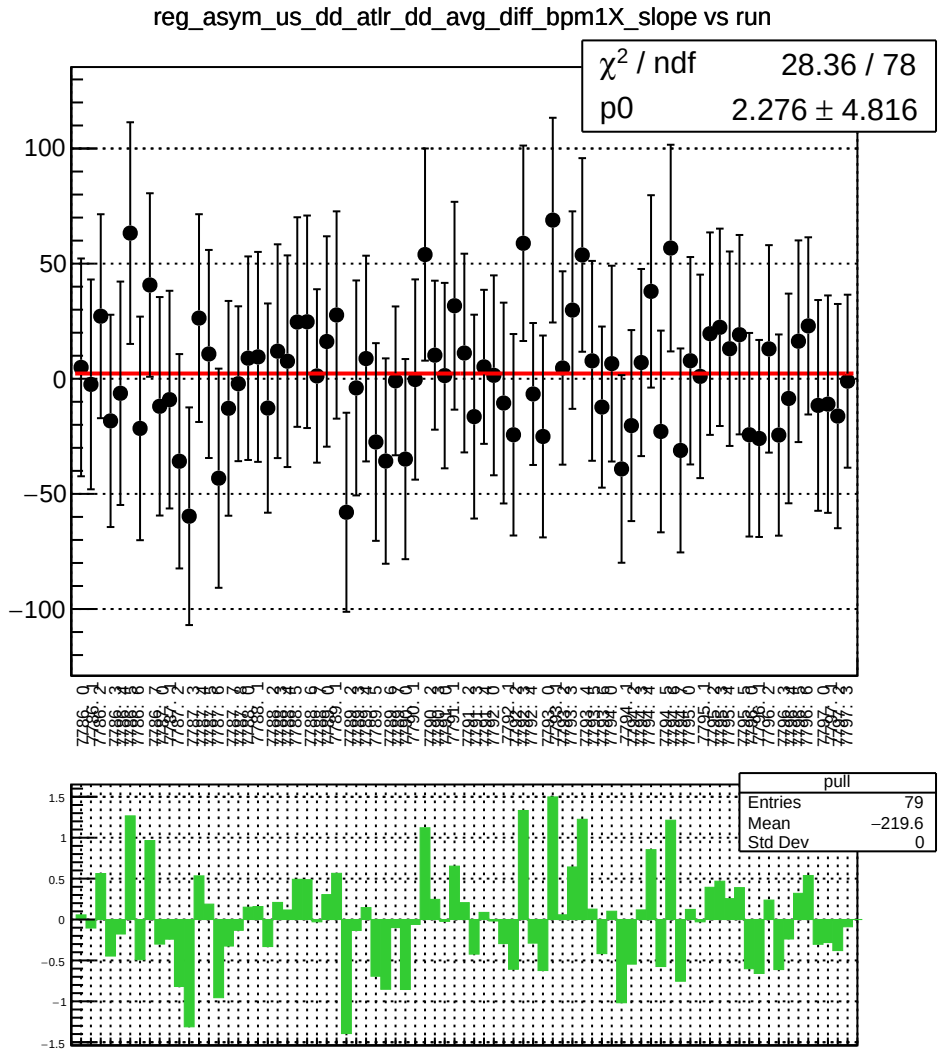

pull1D
Entries 79
Mean −0.01333
Std Dev 0.7078

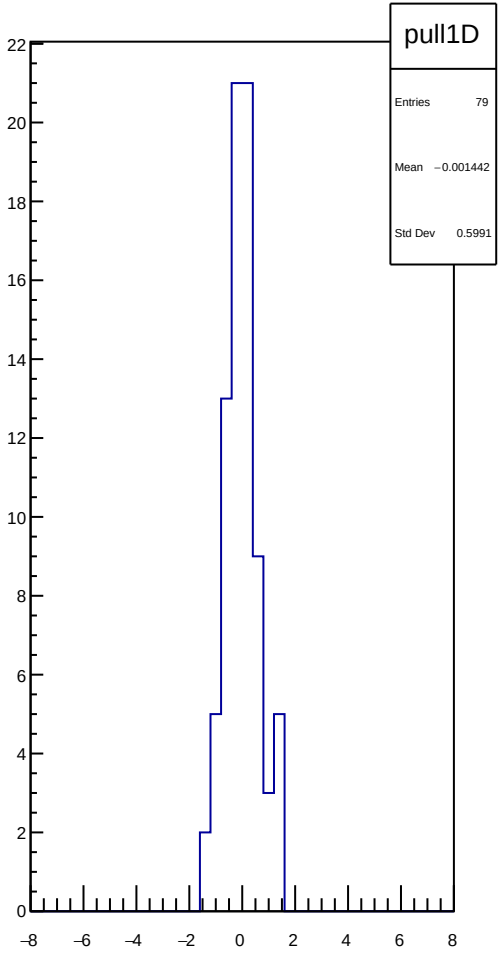

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.07 / 78
p0 −5.754 ± 3.732
pull
Entries 79
Mean 687.2
Std Dev 0

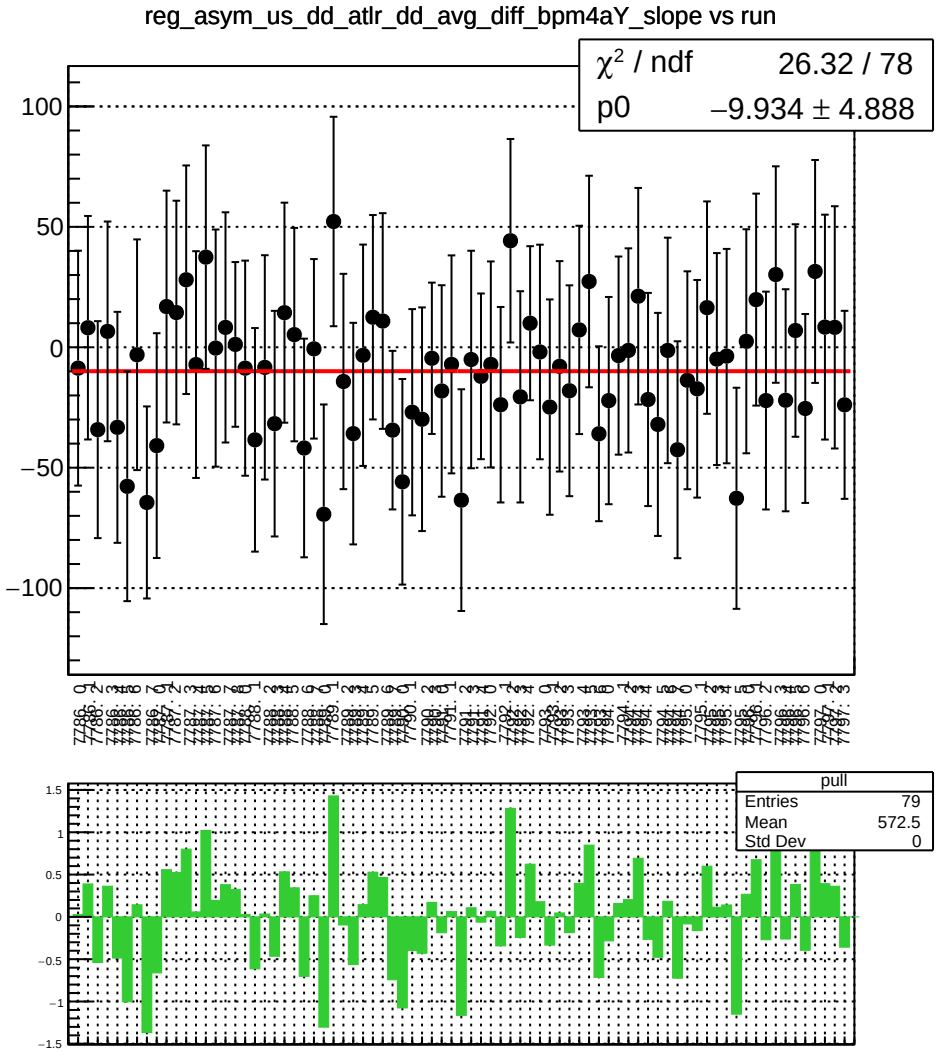

pull1D
Entries 79
Mean −0.002659
Std Dev 0.7298

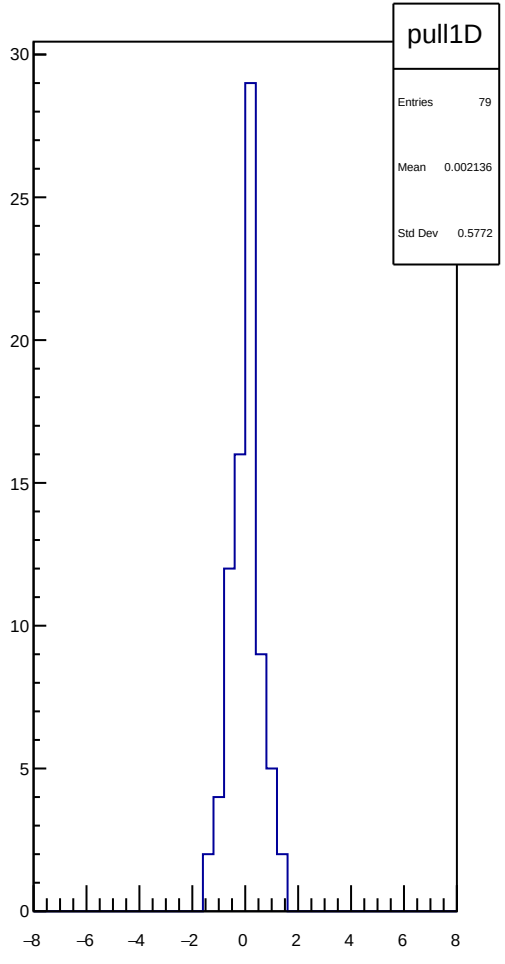

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 53.32 / 78
p0 −21.99 ± 0.1159
pull
Entries 79
Mean −150.9
Std Dev 0

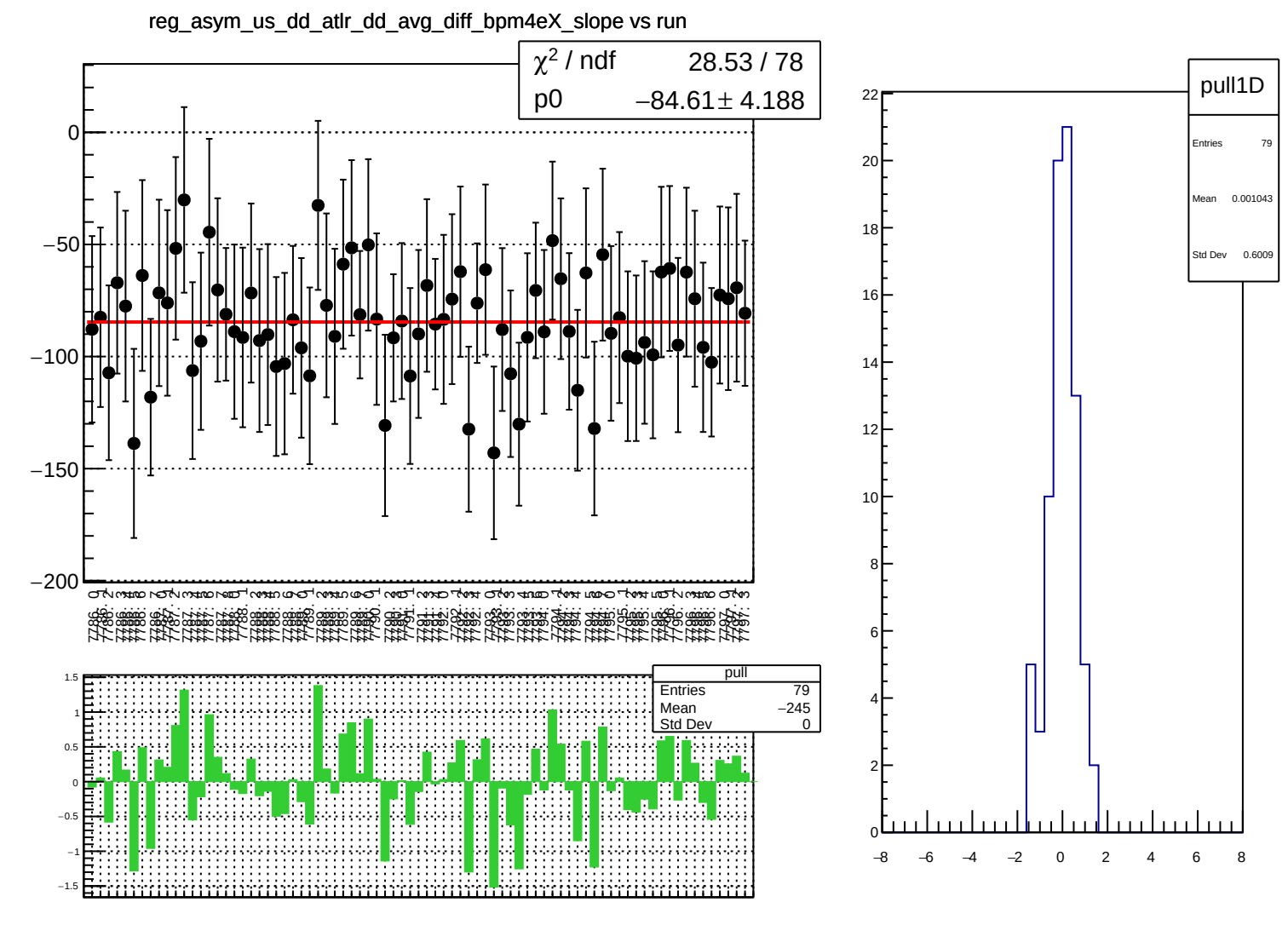

pull1D
Entries 79
Mean −0.007975
Std Dev 0.8215

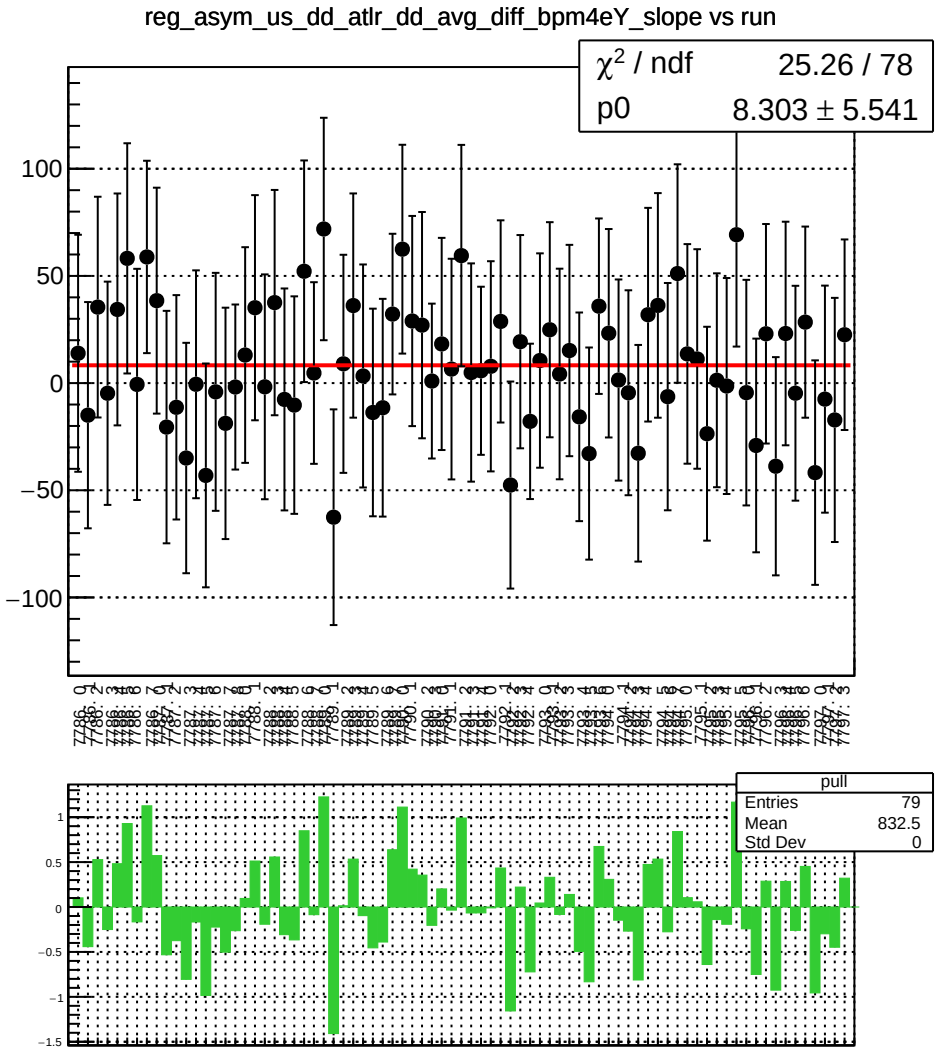

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 28.36 / 78
p0 2.276 ± 4.816
pull
Entries 79
Mean −219.6
Std Dev 0

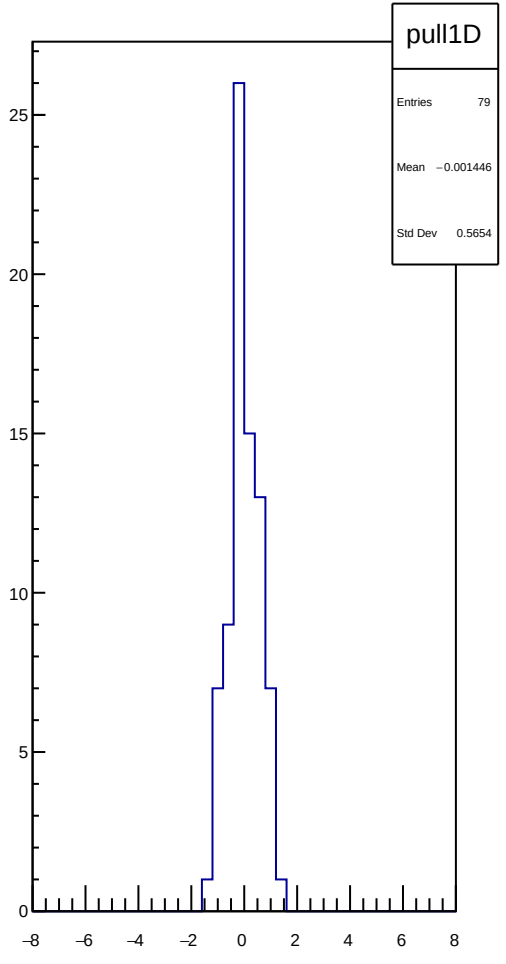

pull1D
Entries 79
Mean −0.001442
Std Dev 0.5991

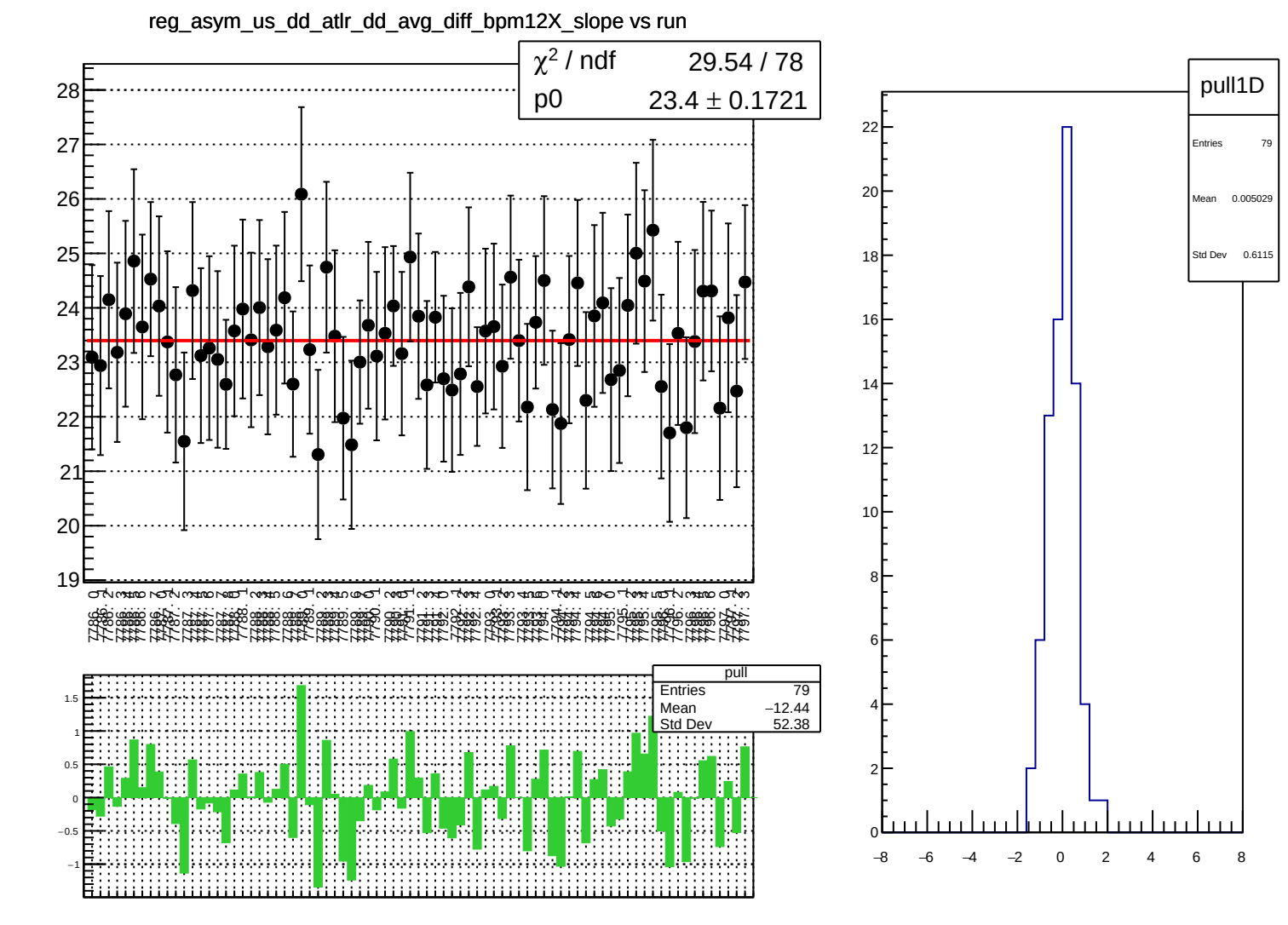

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.32 / 78
p0 −9.934 ± 4.888
pull
Entries 79
Mean 572.5
Std Dev 0

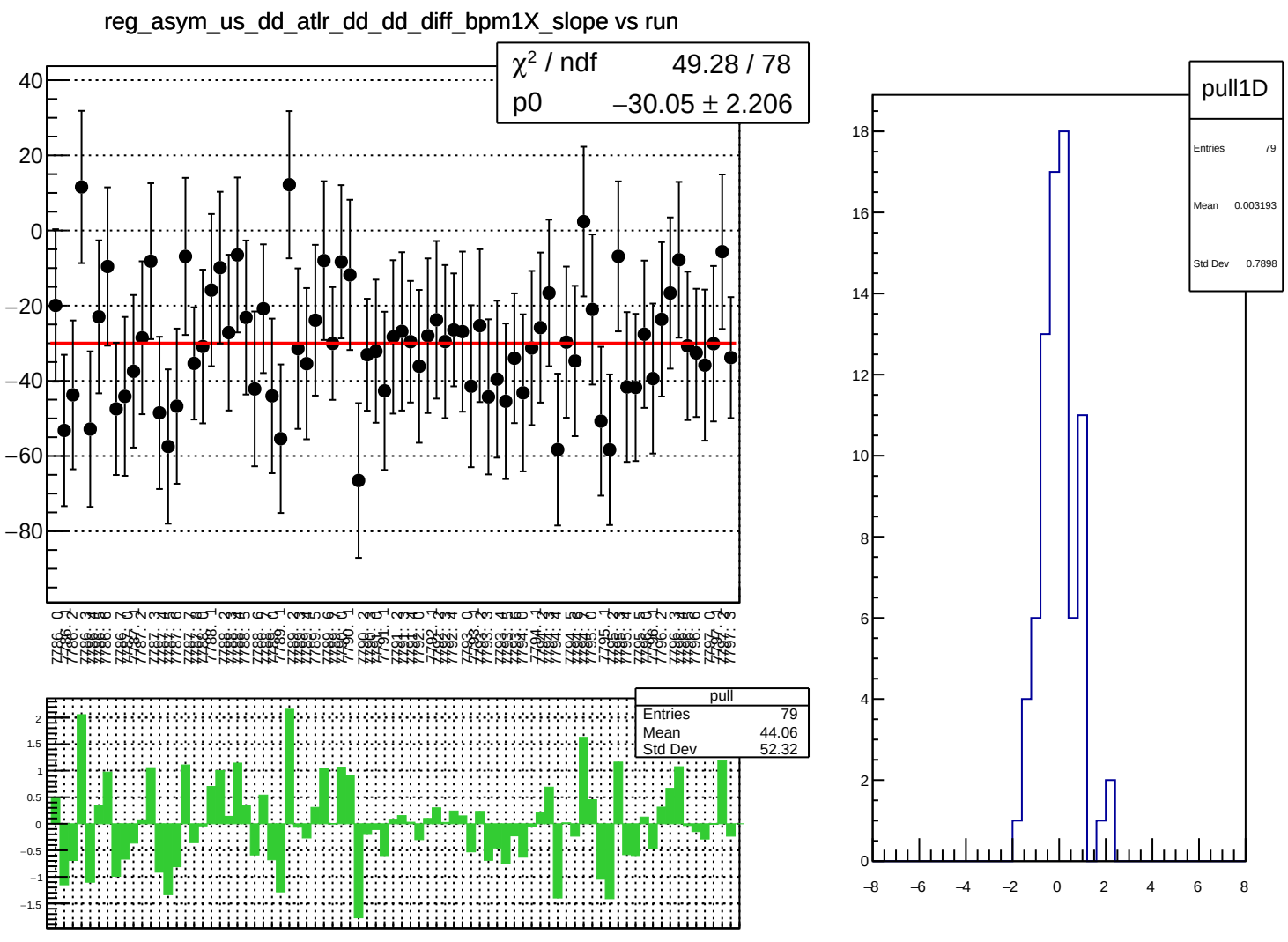

pull1D
Entries 79
Mean 0.002136
Std Dev 0.5772

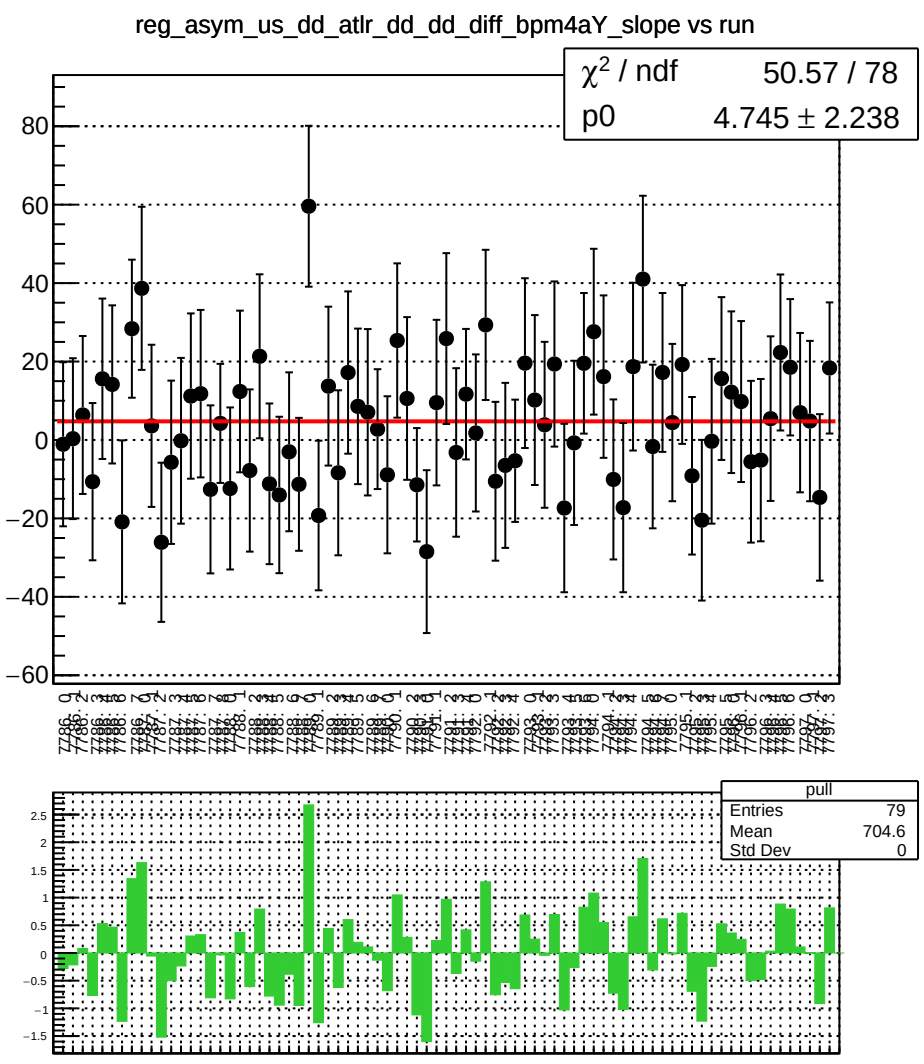

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.53 / 78
p0 −84.61 ± 4.188
pull
Entries 79
Mean −245
Std Dev 0
pull1D
Entries 79
Mean 0.001043
Std Dev 0.6009

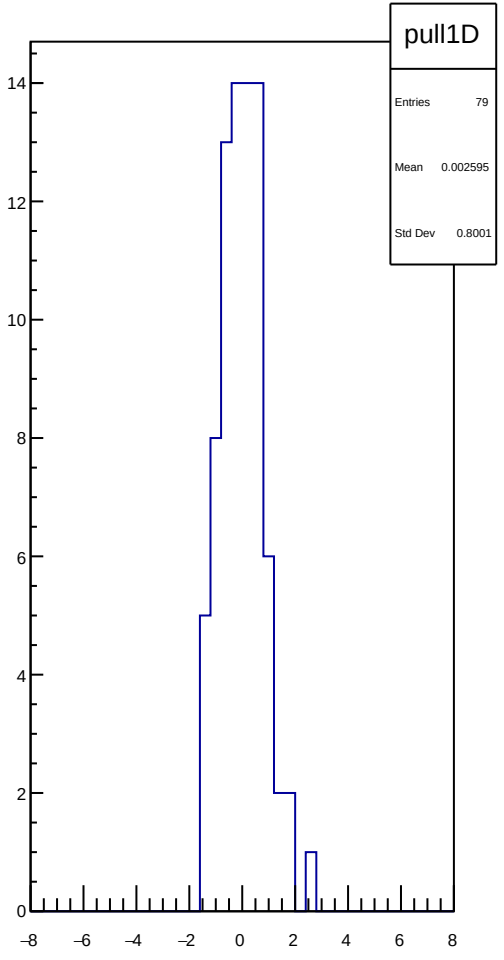

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 25.26 / 78
p0 8.303 ± 5.541
pull
Entries 79
Mean 832.5
Std Dev 0

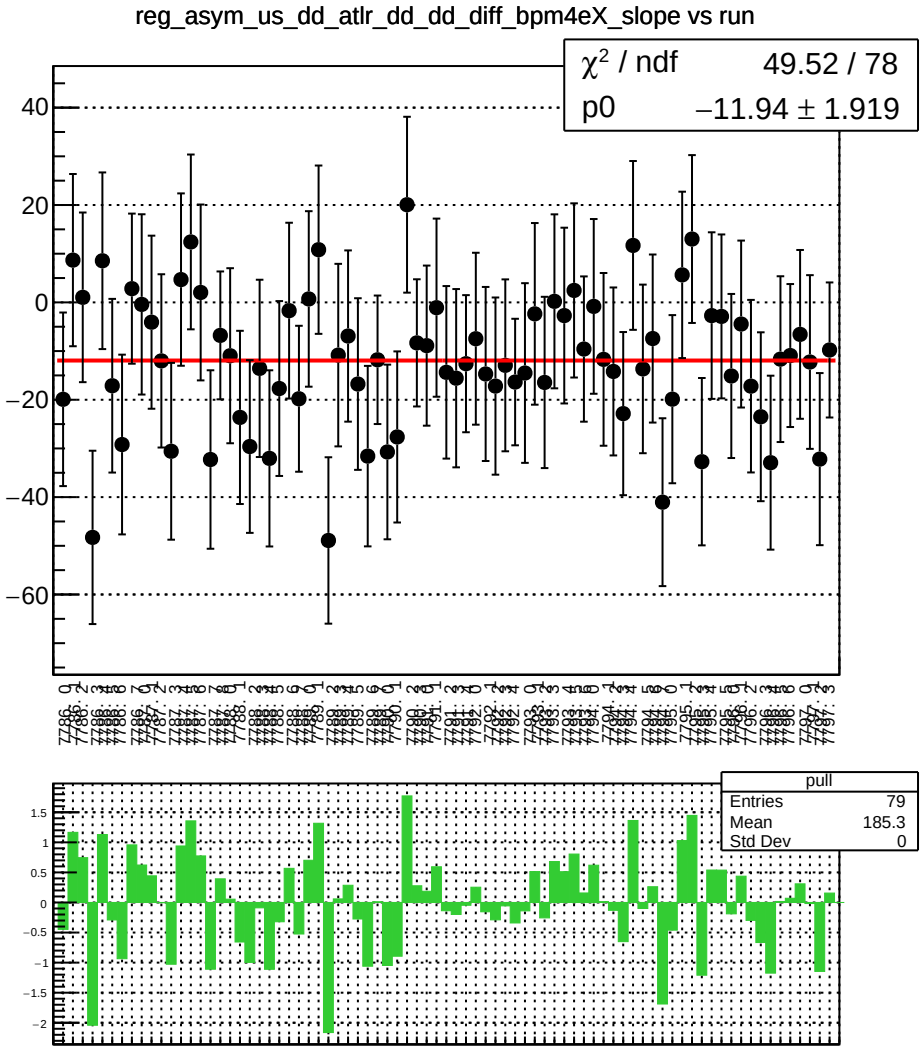

pull1D
Entries 79
Mean −0.001446
Std Dev 0.5654

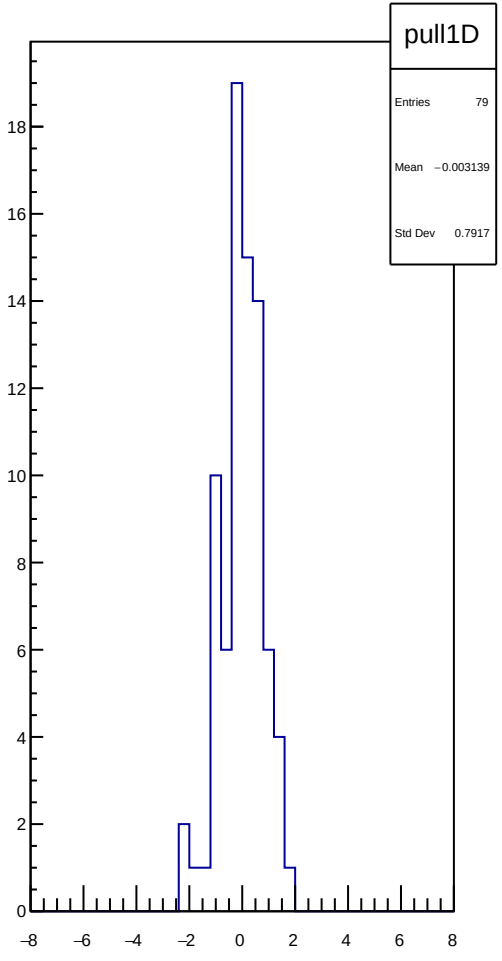

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 29.54 / 78
p0 23.4 ± 0.1721
pull
Entries 79
Mean −12.44
Std Dev 52.38
pull1D
Entries 79
Mean 0.005029
Std Dev 0.6115

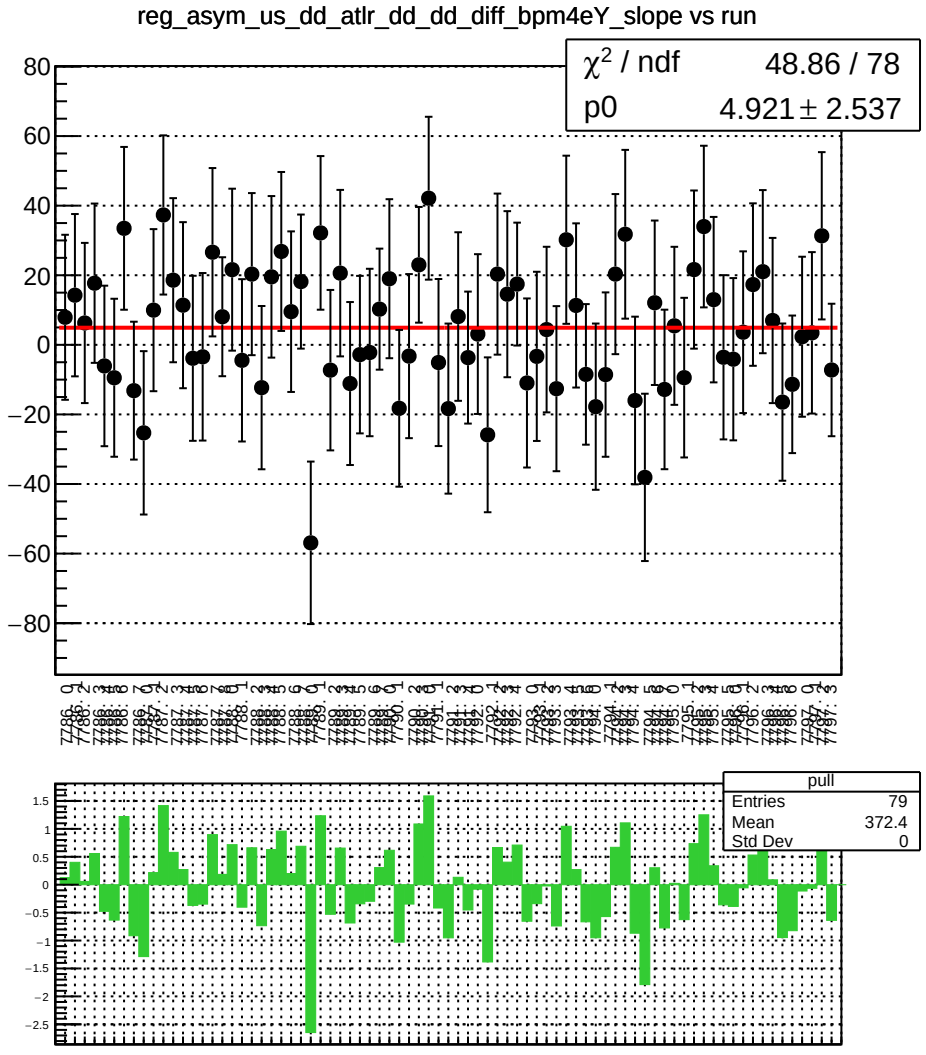

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 49.28 / 78
p0 −30.05 ± 2.206
pull
Entries 79
Mean 44.06
Std Dev 52.32
pull1D
Entries 79
Mean 0.003193
Std Dev 0.7898

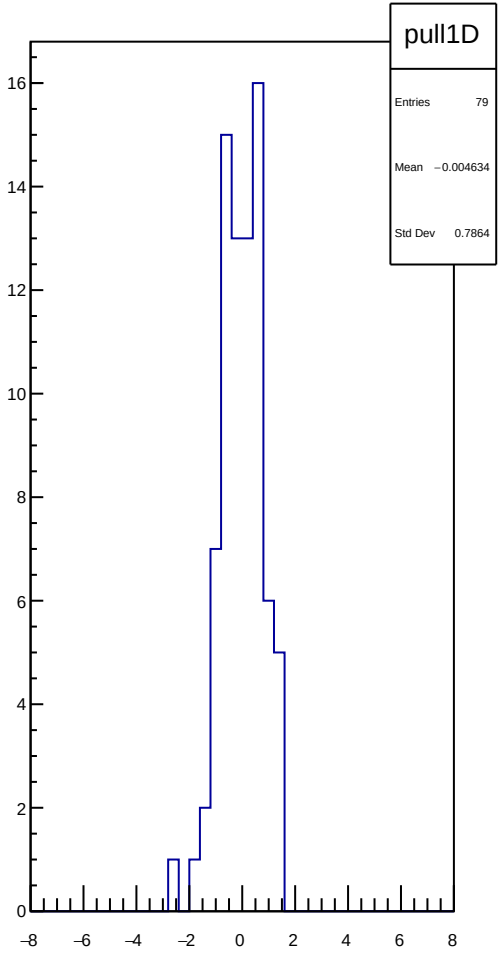

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.57 / 78
p0 4.745 ± 2.238
pull
Entries 79
Mean 704.6
Std Dev 0

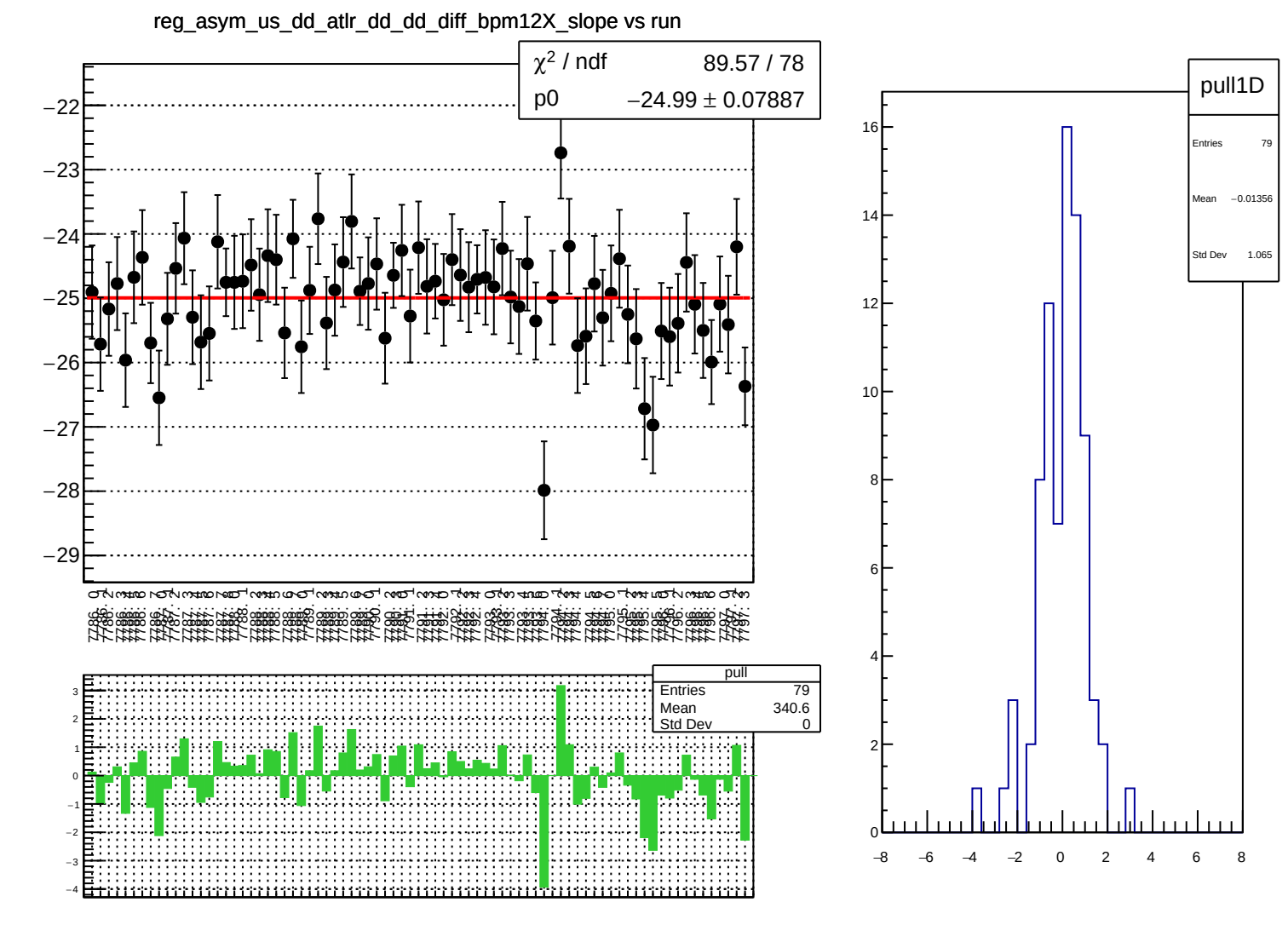

pull1D
Entries 79
Mean 0.002595
Std Dev 0.8001

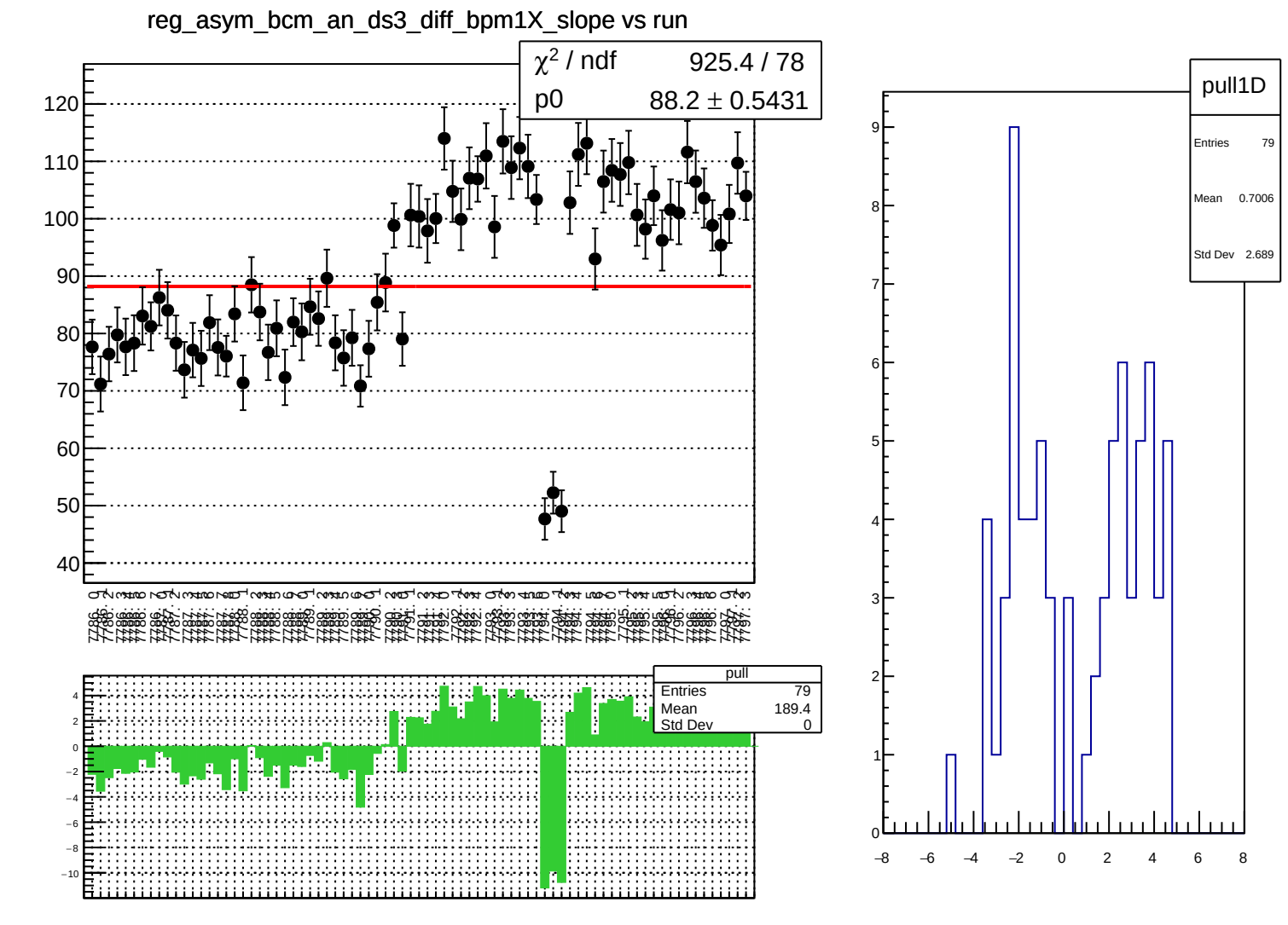

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.52 / 78
p0 −11.94 ± 1.919
pull
Entries 79
Mean 185.3
Std Dev 0

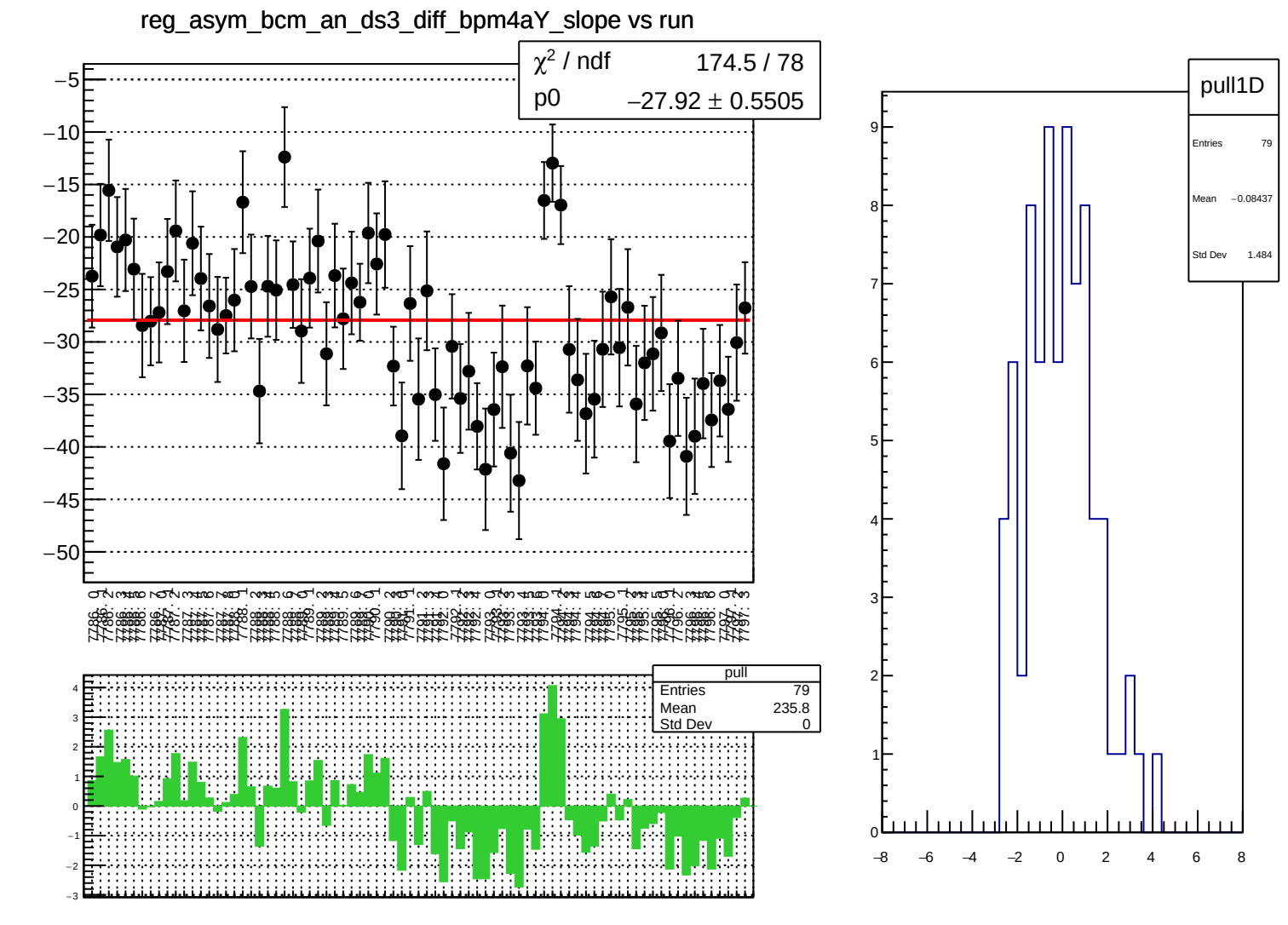

pull1D
Entries 79
Mean −0.003139
Std Dev 0.7917

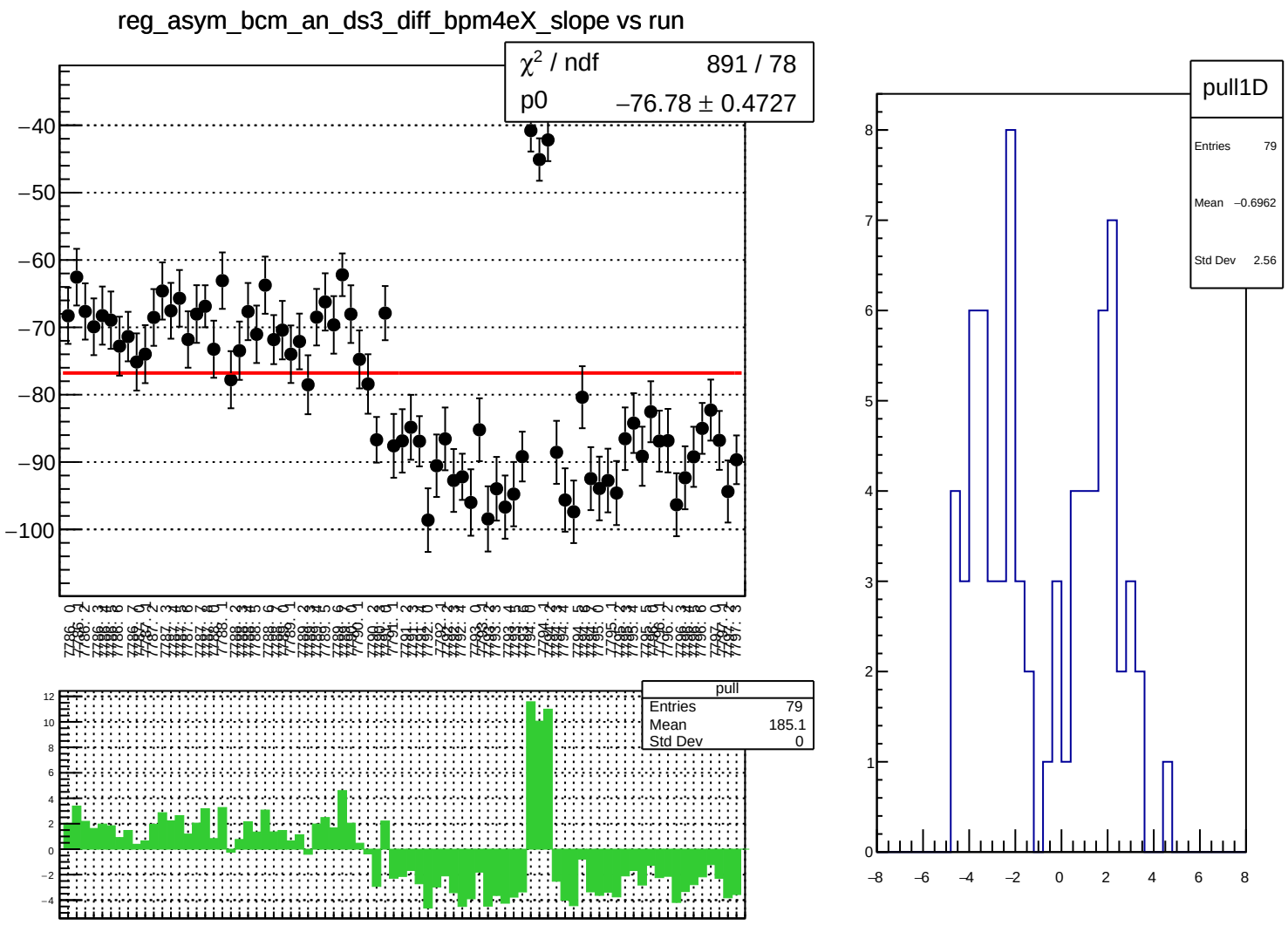

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.86 / 78
p0 4.921 ± 2.537
pull
Entries 79
Mean 372.4
Std Dev 0

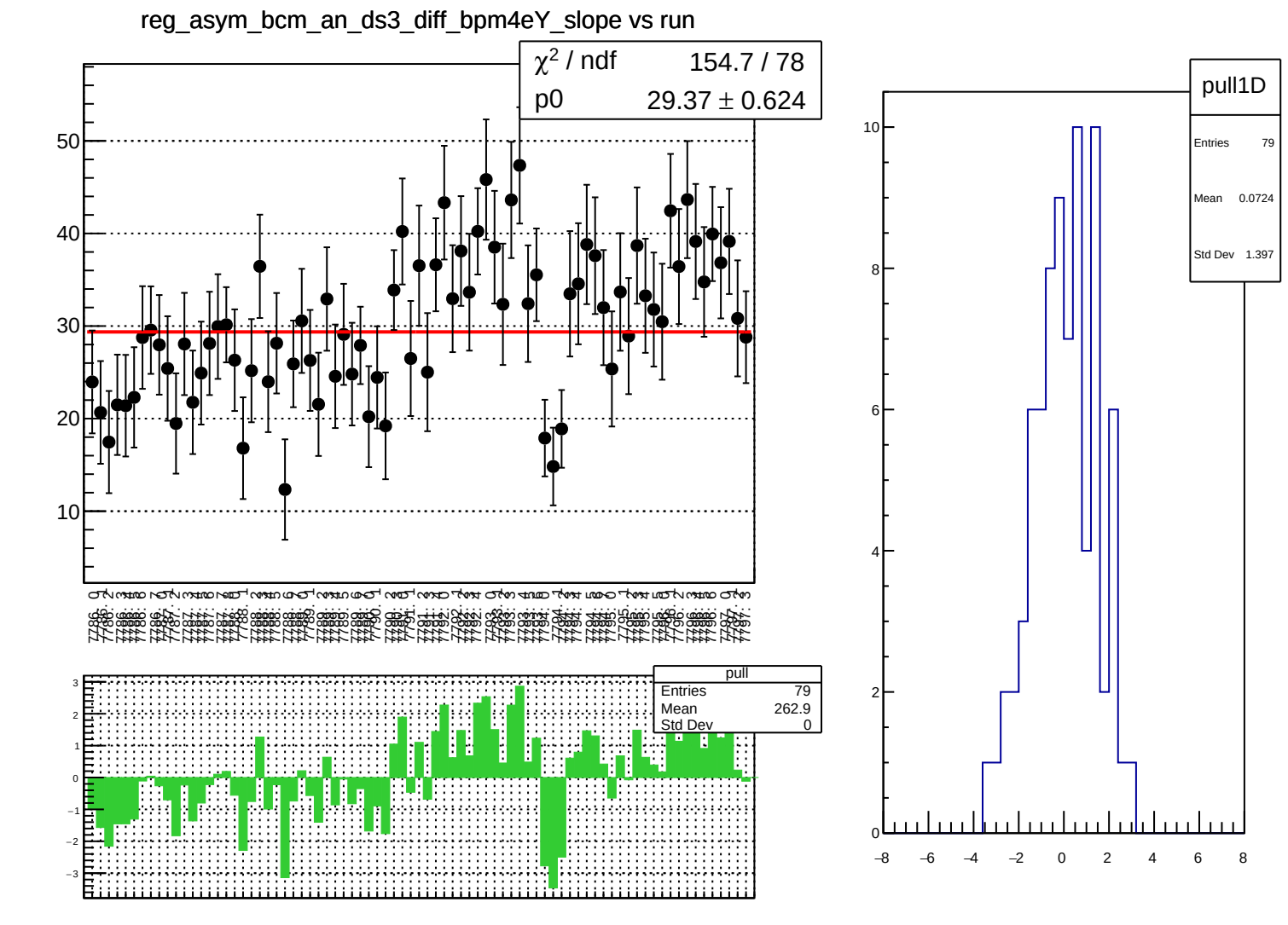

pull1D
Entries 79
Mean −0.004634
Std Dev 0.7864

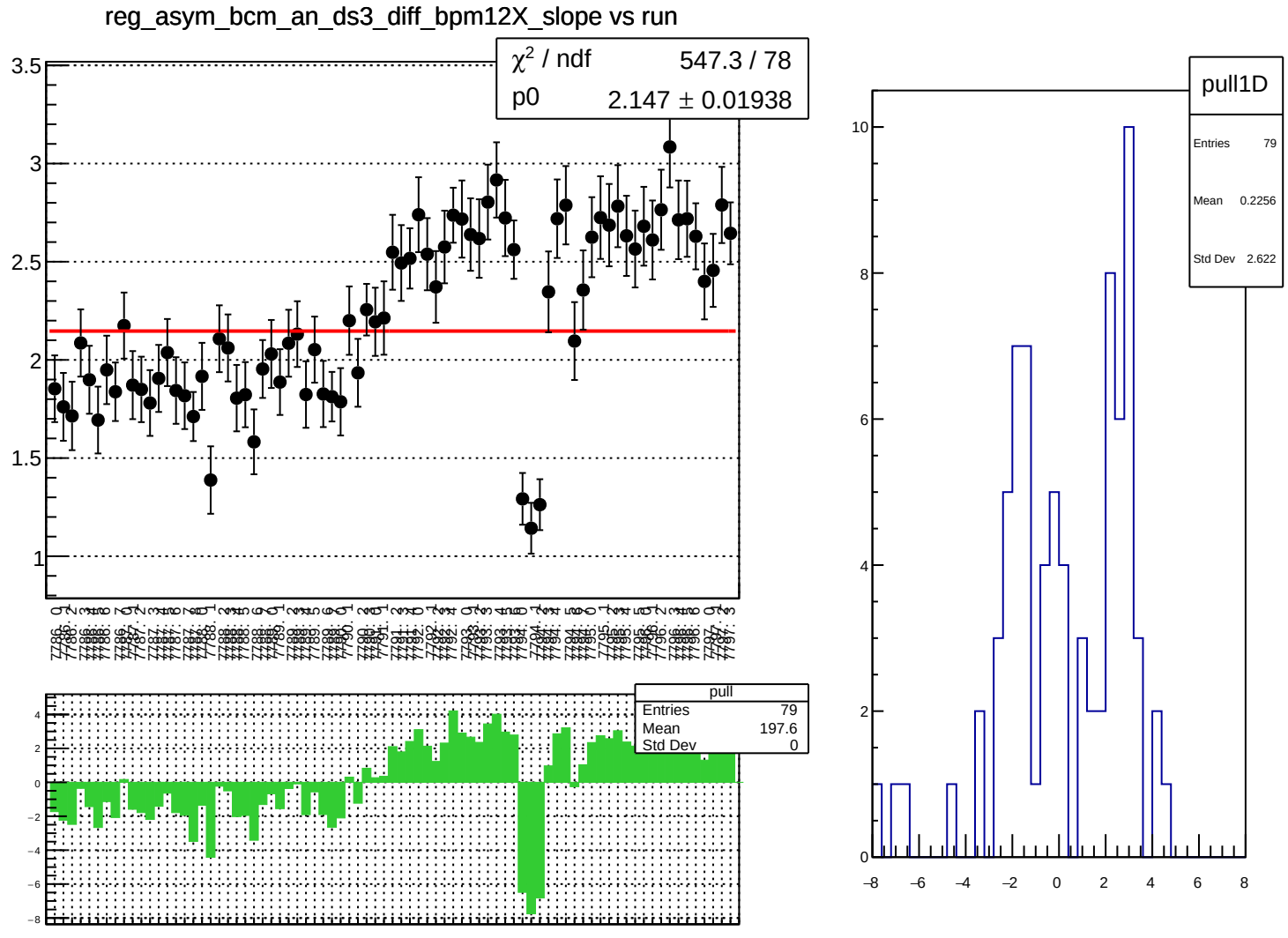

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 89.57 / 78
p0 −24.99 ± 0.07887
pull
Entries 79
Mean 340.6
Std Dev 0
pull1D
Entries 79
Mean −0.01356
Std Dev 1.065

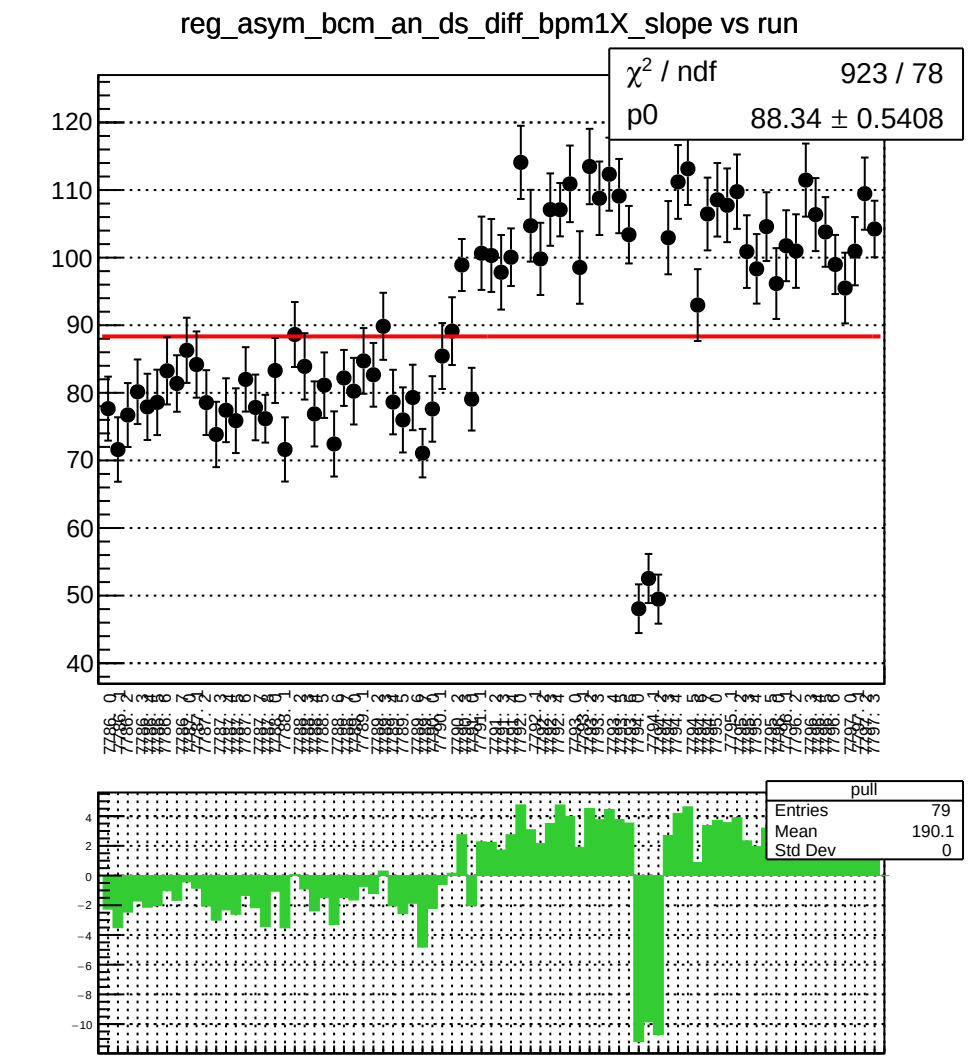

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 925.4 / 78
p0 88.2 ± 0.5431
pull
Entries 79
Mean 189.4
Std Dev 0
pull1D
Entries 79
Mean 0.7006
Std Dev 2.689

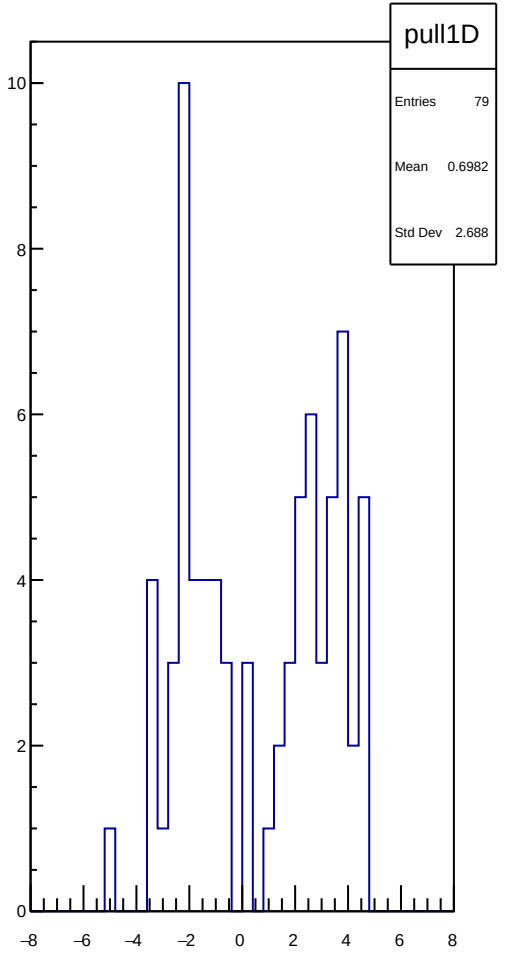

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 174.5 / 78
p0 −27.92 ± 0.5505
pull
Entries 79
Mean 235.8
Std Dev 0
pull1D
Entries 79
Mean −0.08437
Std Dev 1.484

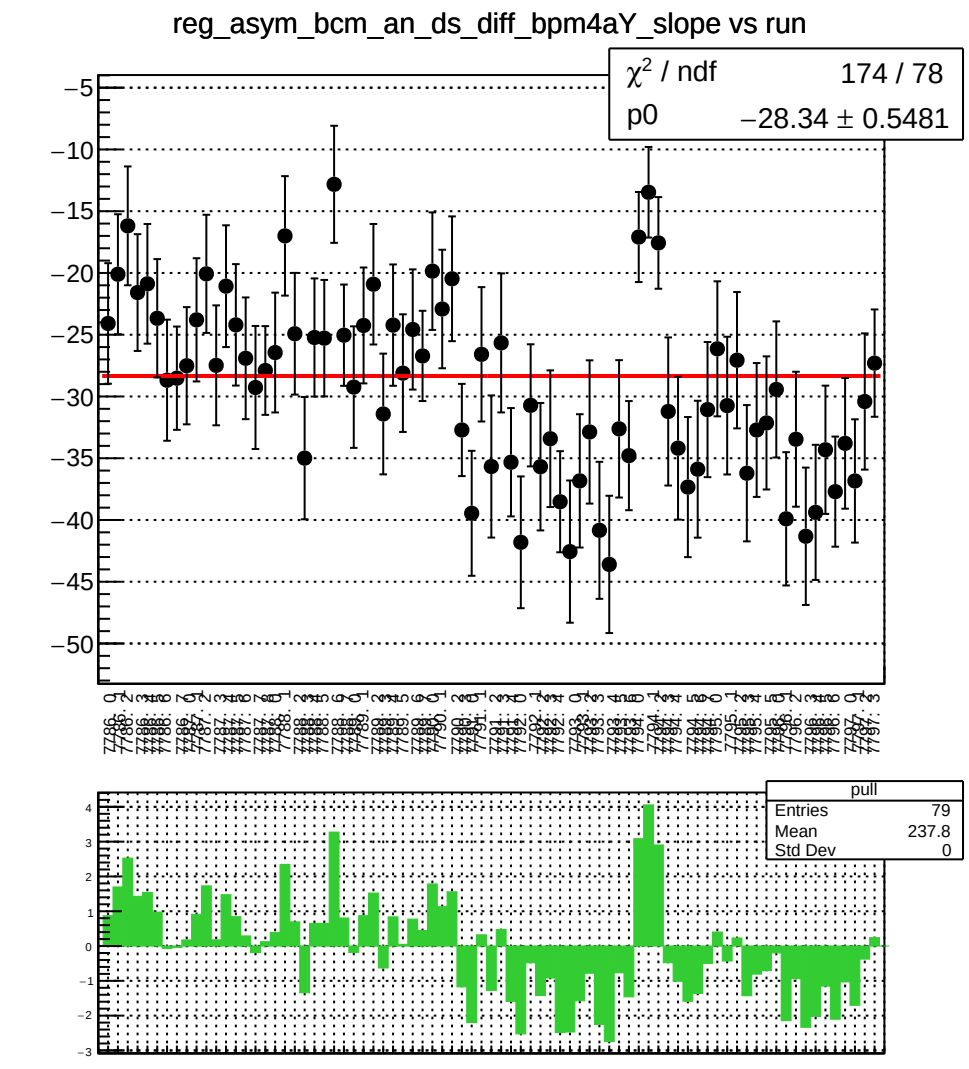

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 891 / 78
p0 −76.78 ± 0.4727
pull
Entries 79
Mean 185.1
Std Dev 0
pull1D
Entries 79
Mean −0.6962
Std Dev 2.56

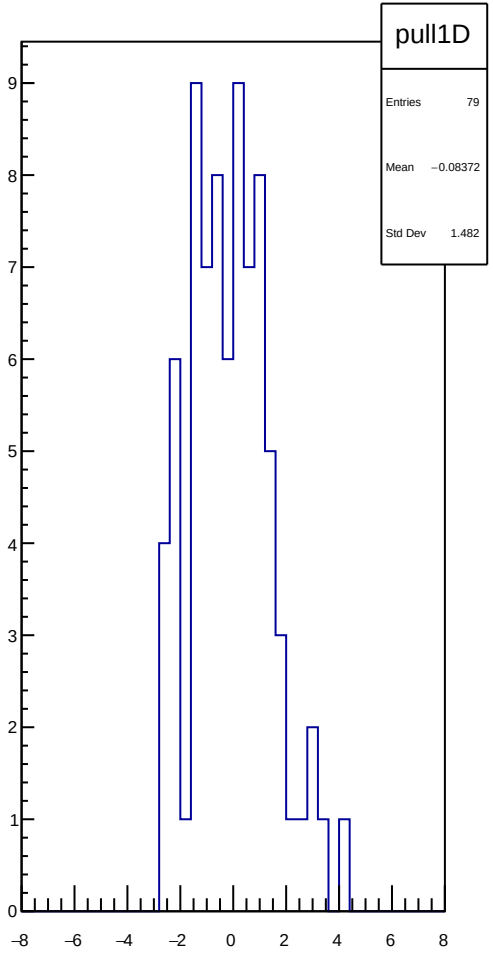

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 154.7 / 78
p0 29.37 ± 0.624
pull
Entries 79
Mean 262.9
Std Dev 0
pull1D
Entries 79
Mean 0.0724
Std Dev 1.397

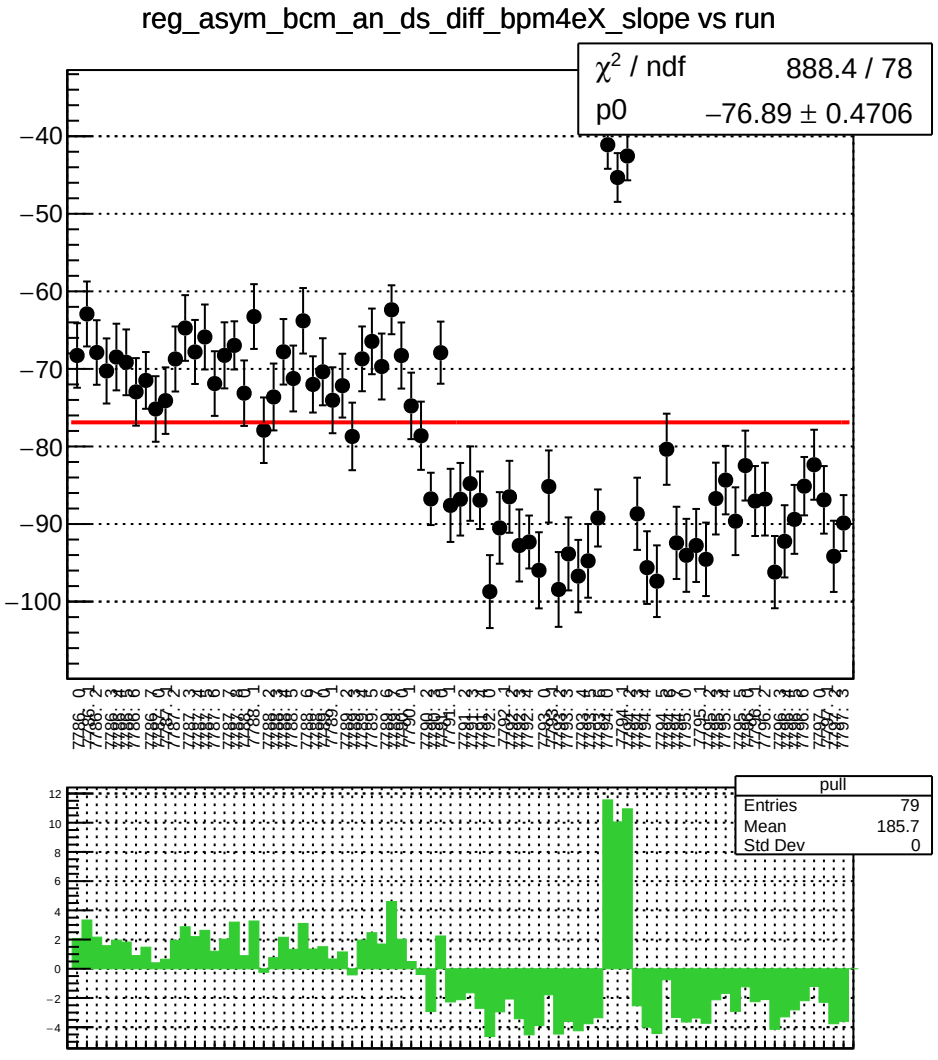

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 547.3 / 78
p0 2.147 ± 0.01938
pull
Entries 79
Mean 197.6
Std Dev 0
pull1D
Entries 79
Mean 0.2256
Std Dev 2.622

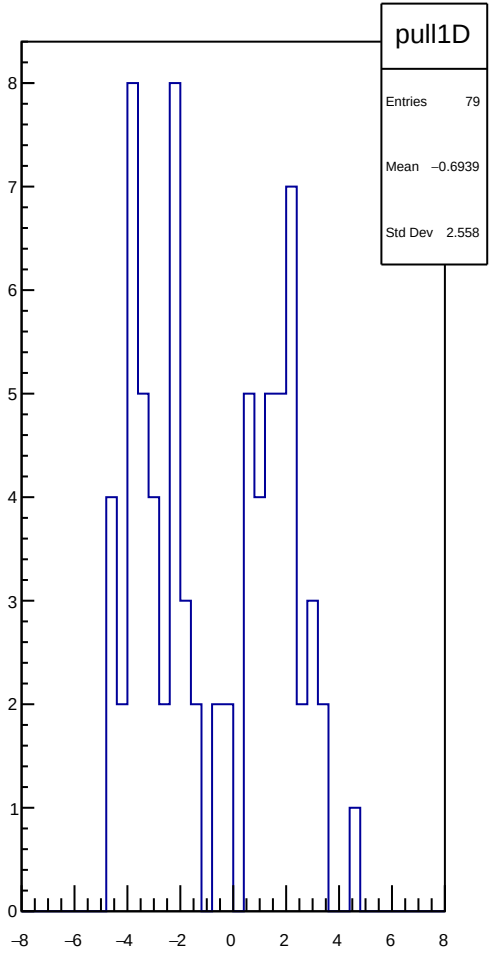

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 923 / 78
p0 88.34 ± 0.5408
pull
Entries 79
Mean 190.1
Std Dev 0

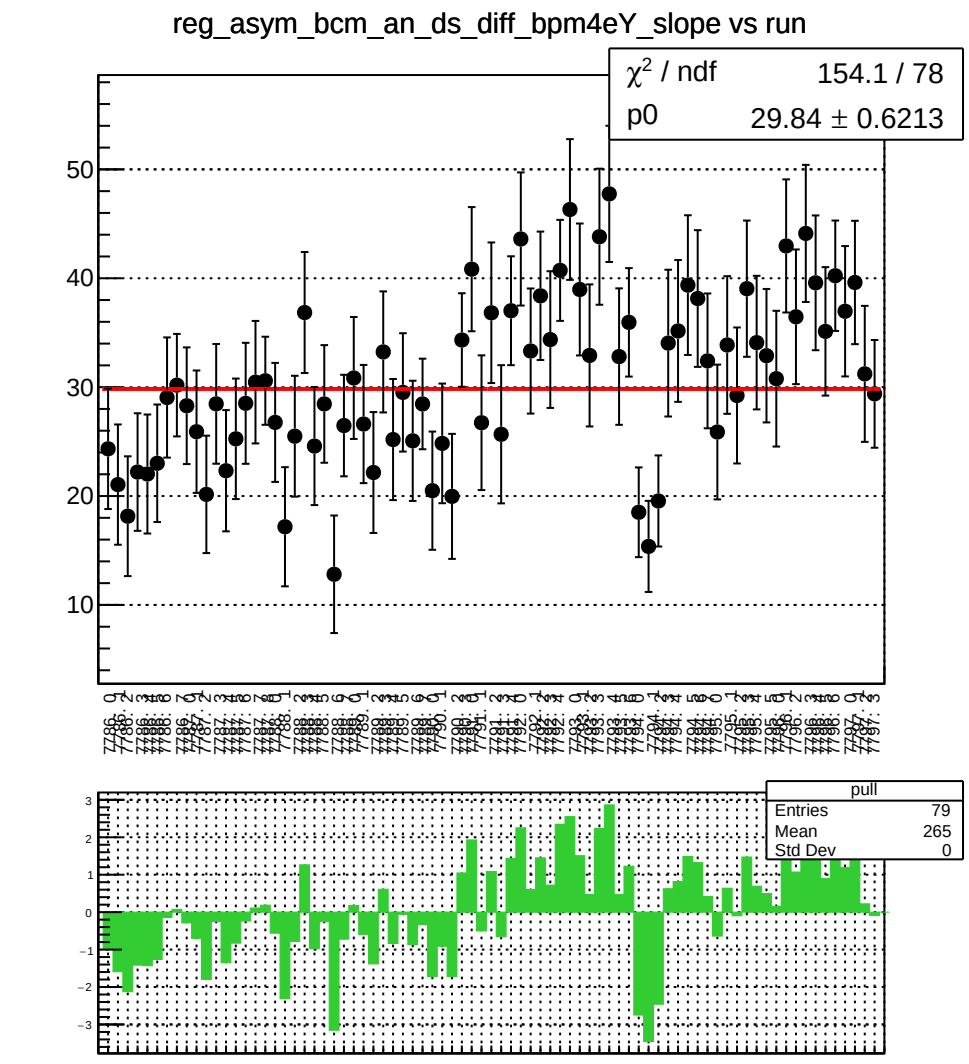

pull1D
Entries 79
Mean 0.6982
Std Dev 2.688

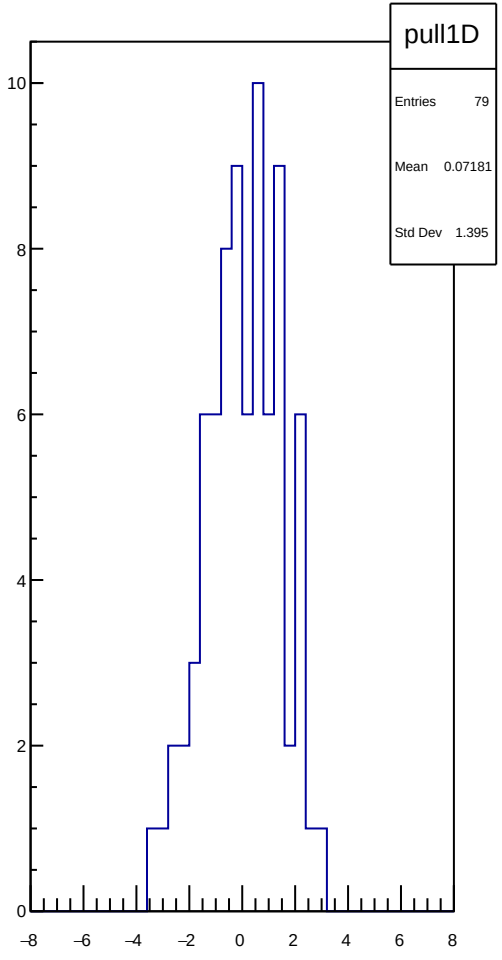

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 174 / 78
p0 −28.34 ± 0.5481
pull
Entries 79
Mean 237.8
Std Dev 0

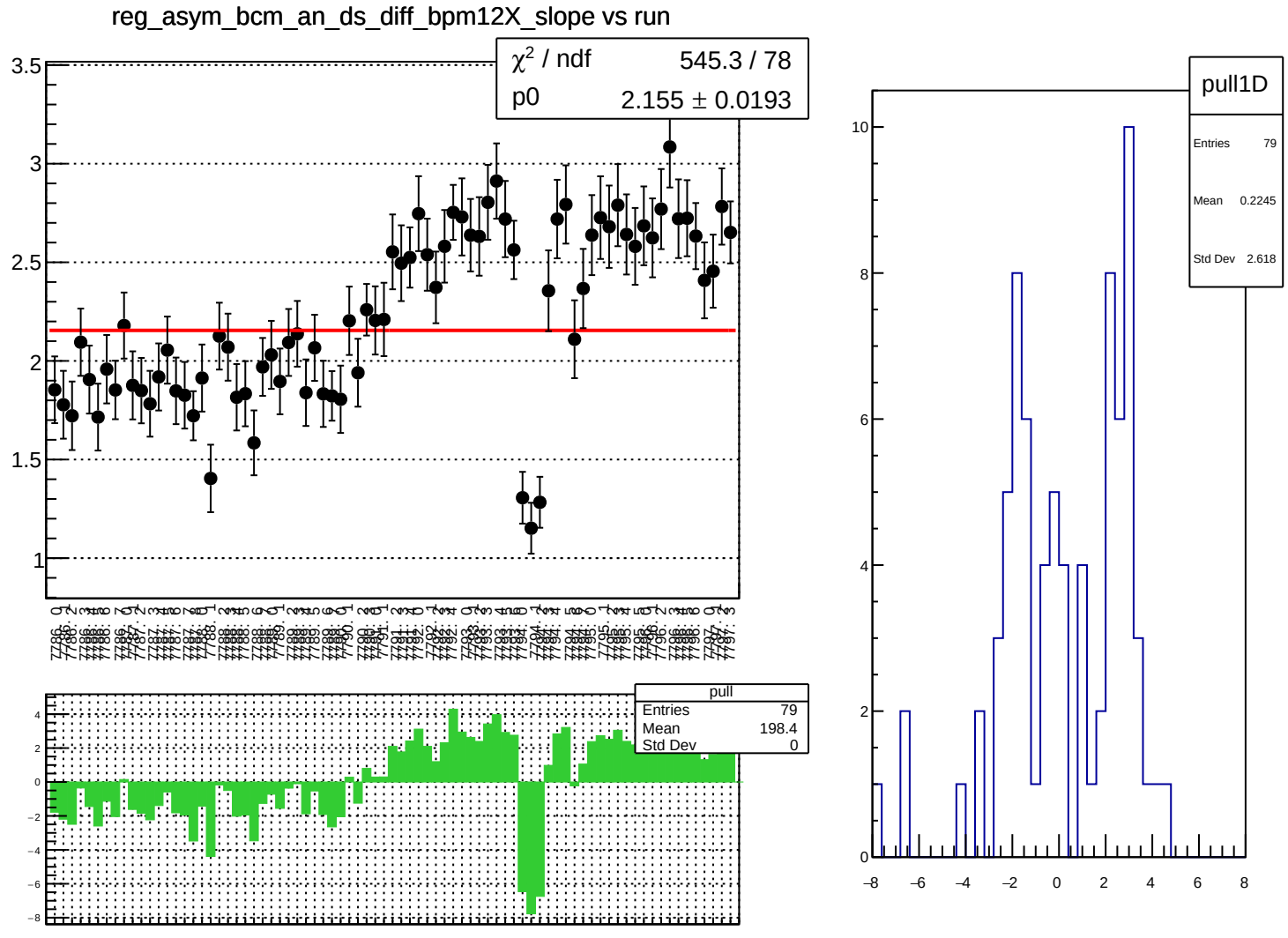

pull1D
Entries 79
Mean −0.08372
Std Dev 1.482

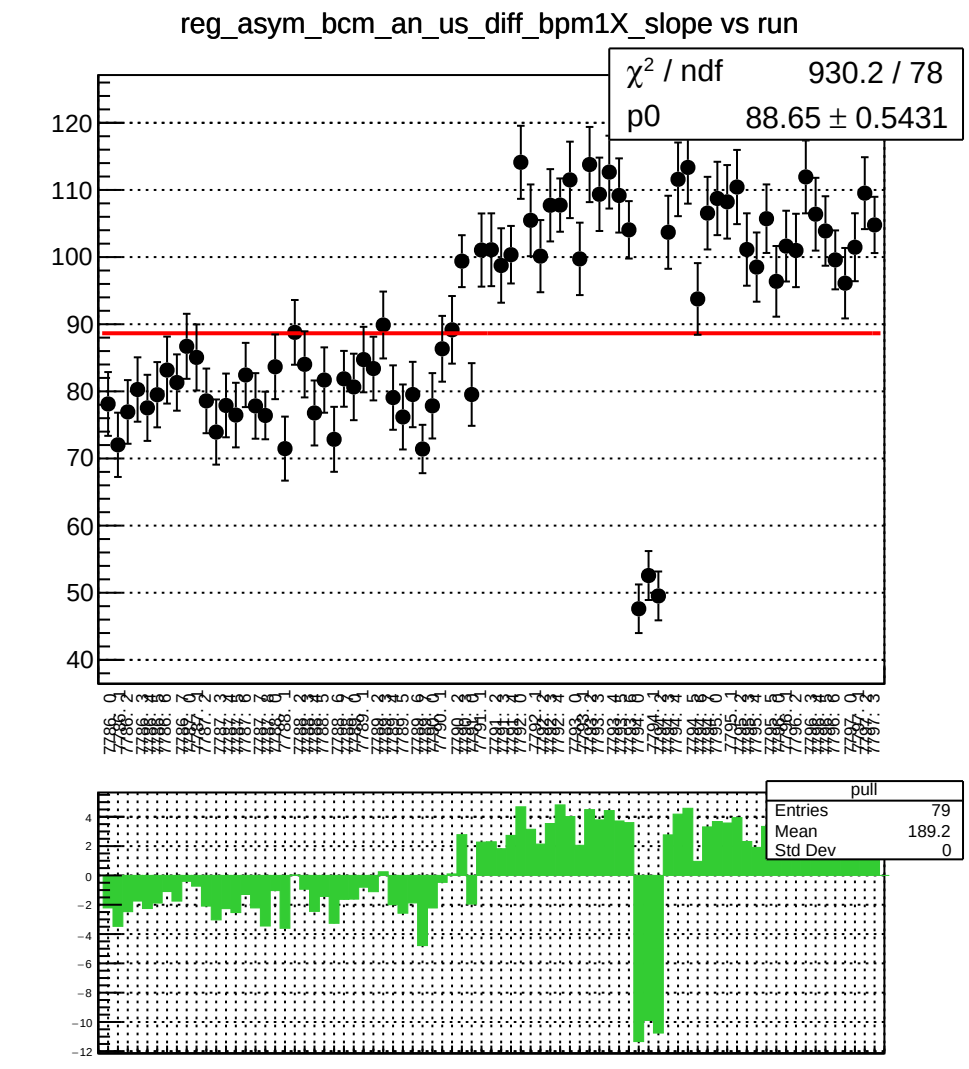

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 888.4 / 78
p0 −76.89 ± 0.4706
pull
Entries 79
Mean 185.7
Std Dev 0

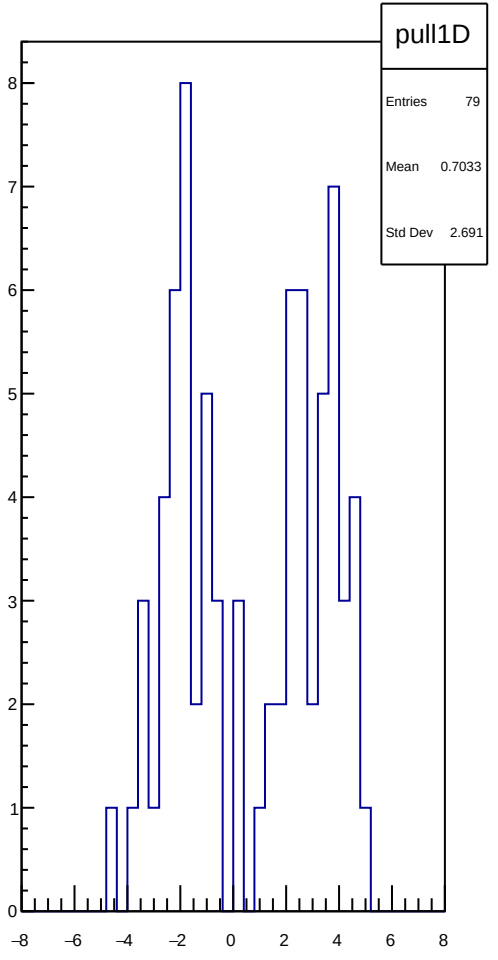

pull1D
Entries 79
Mean −0.6939
Std Dev 2.558

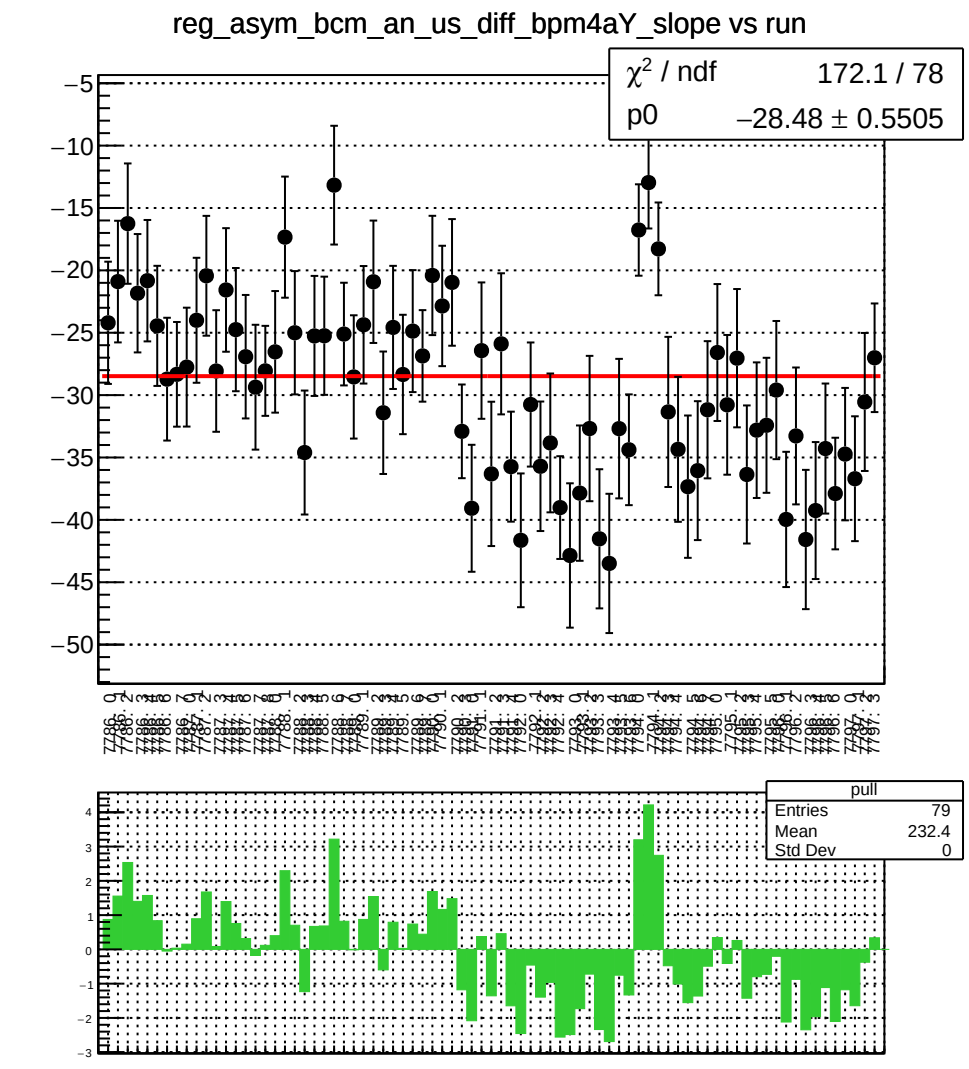

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 154.1 / 78
p0 29.84 ± 0.6213
pull
Entries 79
Mean 265
Std Dev 0

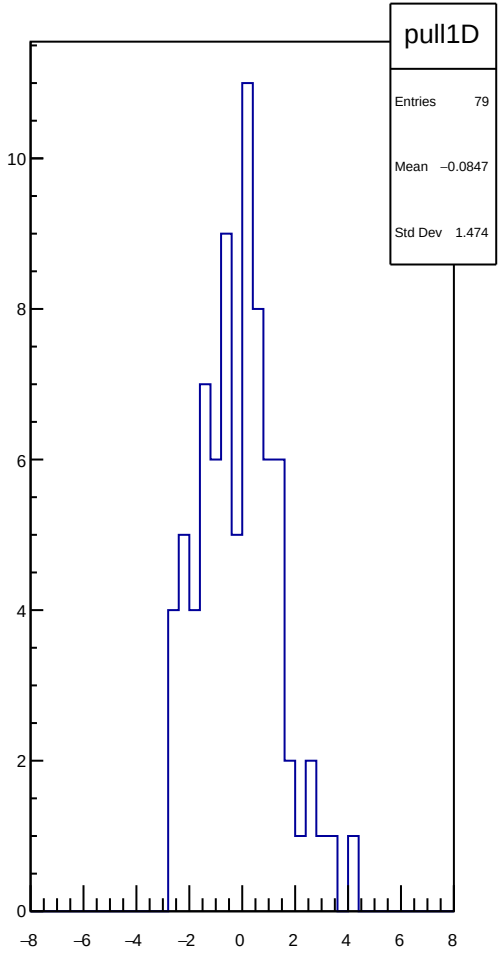

pull1D
Entries 79
Mean 0.07181
Std Dev 1.395

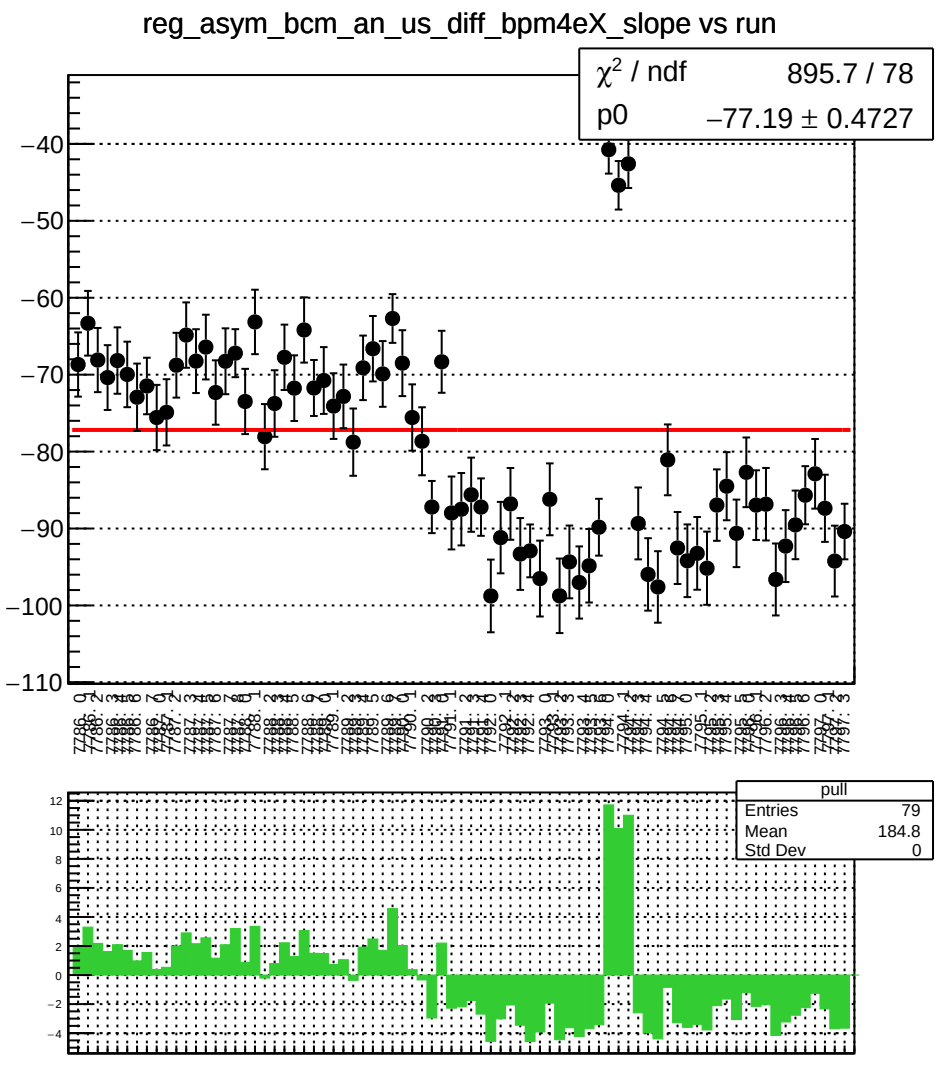

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 545.3 / 78
p0 2.155 ± 0.0193
pull
Entries 79
Mean 198.4
Std Dev 0
pull1D
Entries 79
Mean 0.2245
Std Dev 2.618

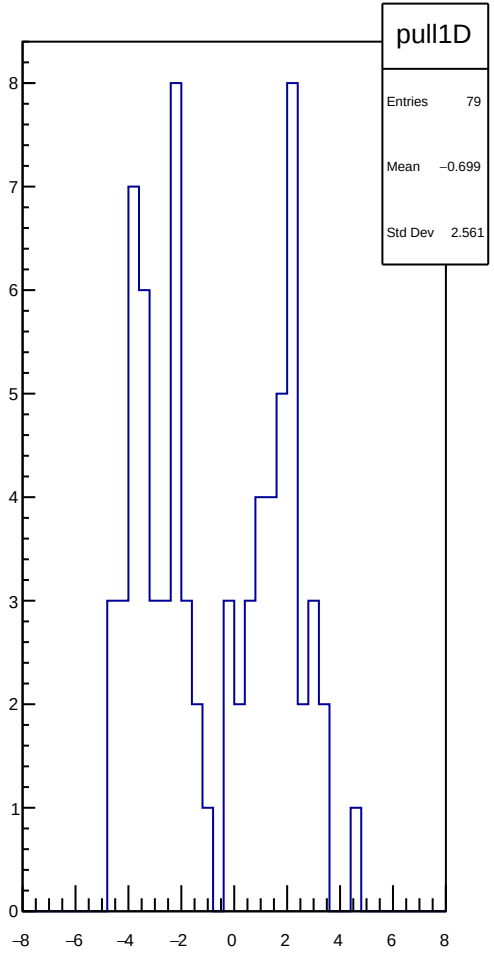

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 930.2 / 78
p0 88.65 ± 0.5431
pull
Entries 79
Mean 189.2
Std Dev 0

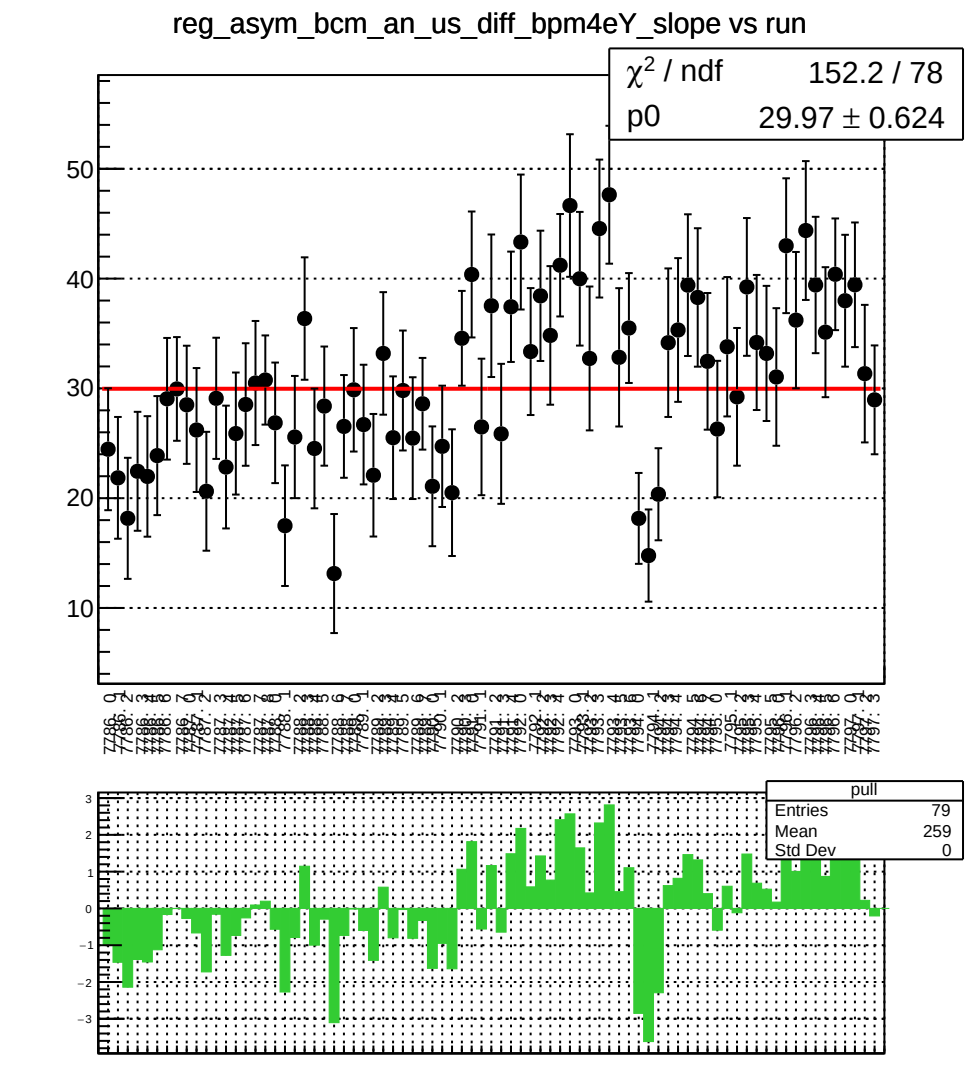

pull1D
Entries 79
Mean 0.7033
Std Dev 2.691

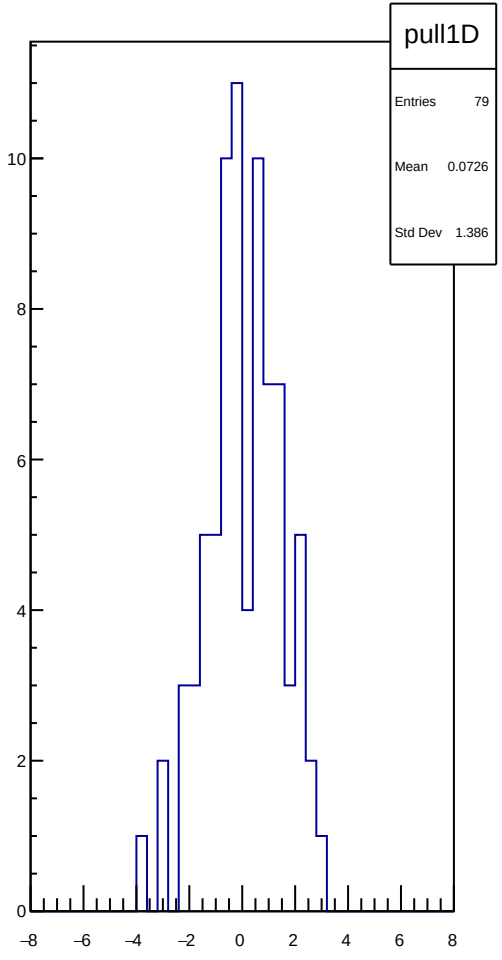

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 172.1 / 78
p0 −28.48 ± 0.5505
pull
Entries 79
Mean 232.4
Std Dev 0

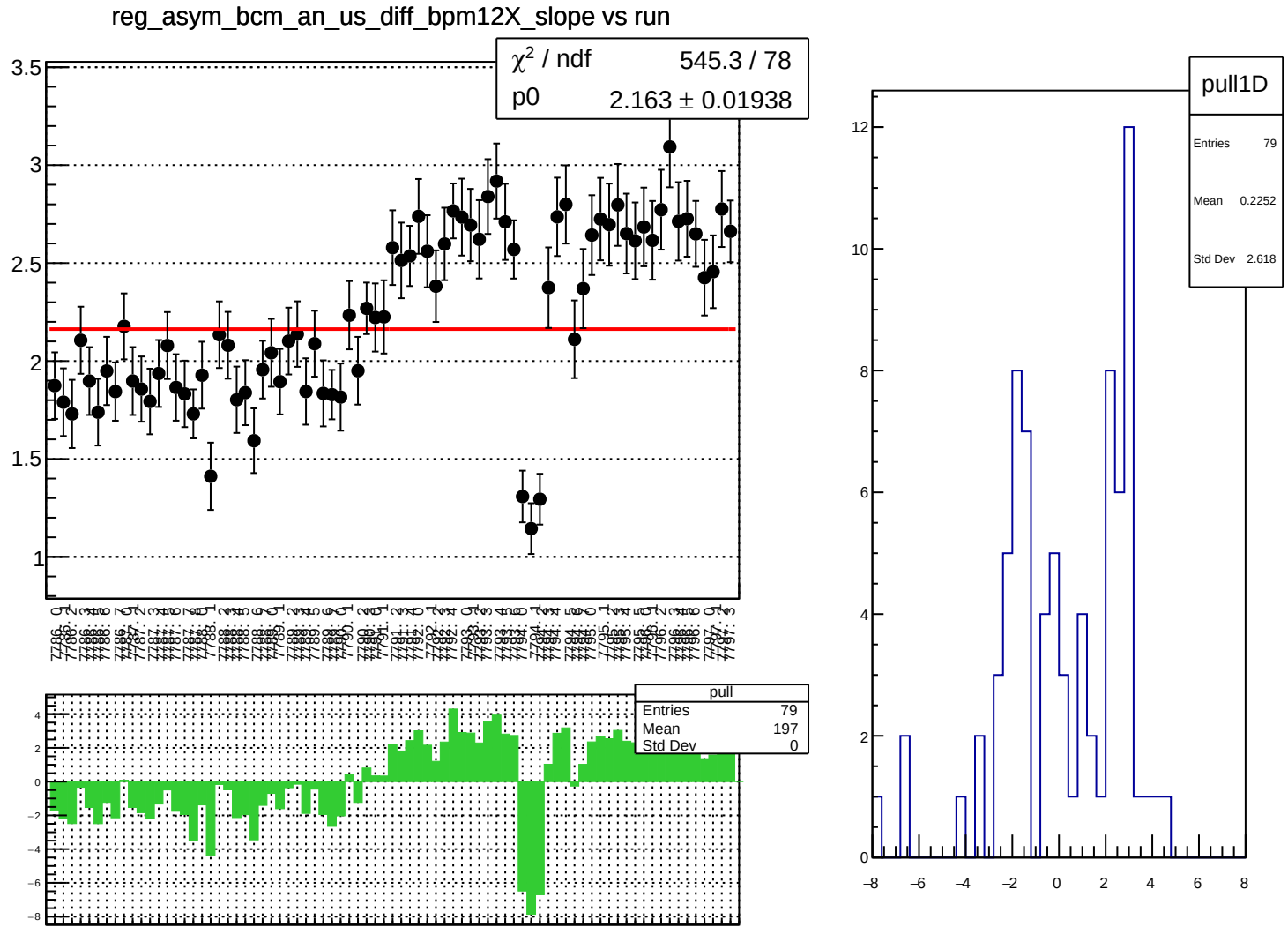

pull1D
Entries 79
Mean −0.0847
Std Dev 1.474

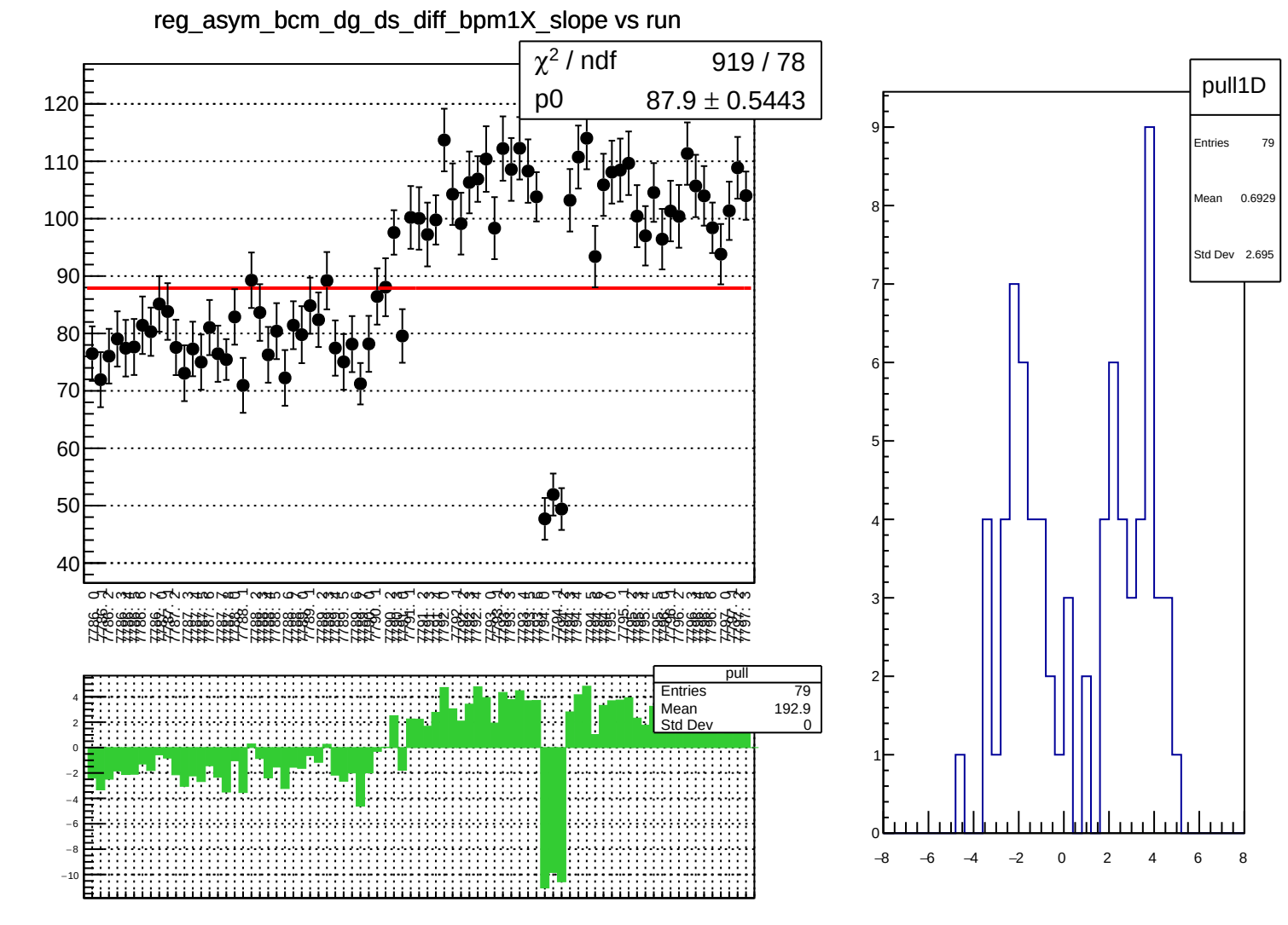

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 895.7 / 78
p0 −77.19 ± 0.4727
pull
Entries 79
Mean 184.8
Std Dev 0

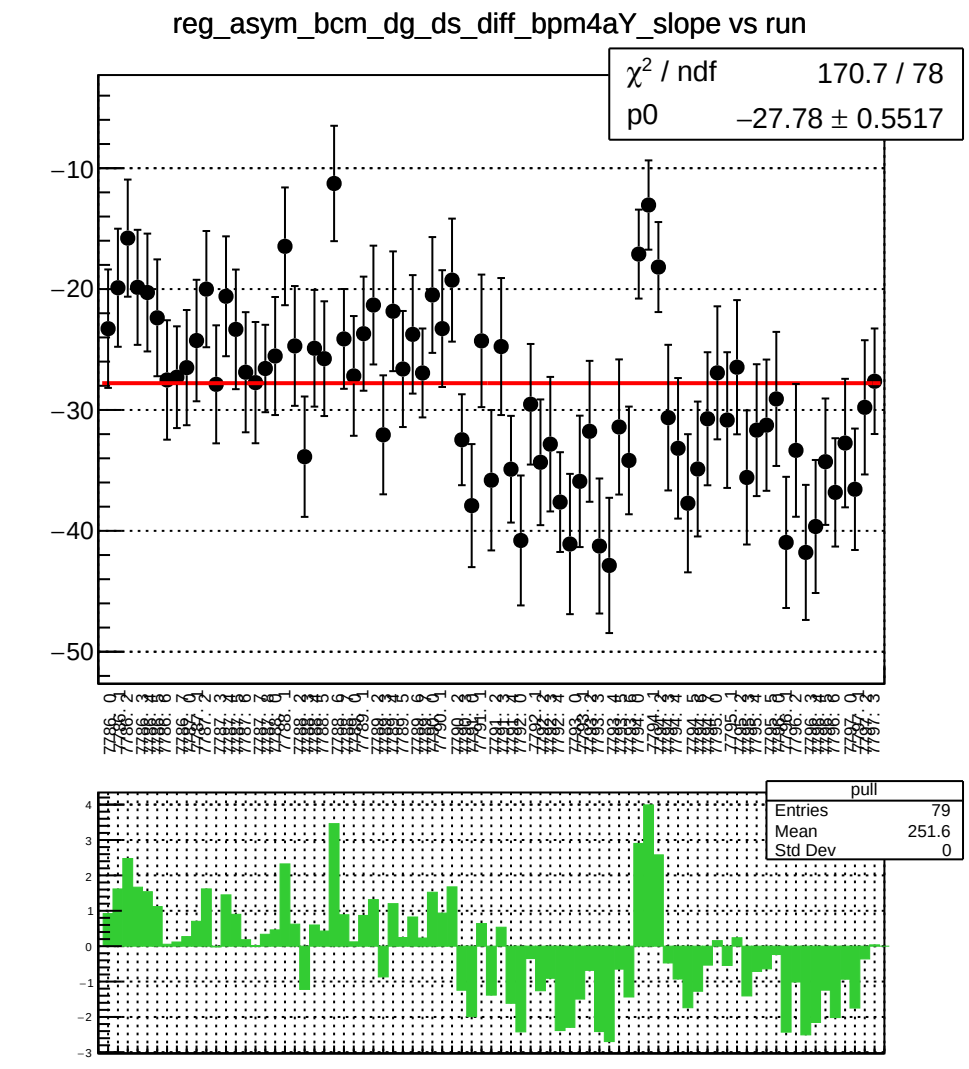

pull1D
Entries 79
Mean −0.699
Std Dev 2.561

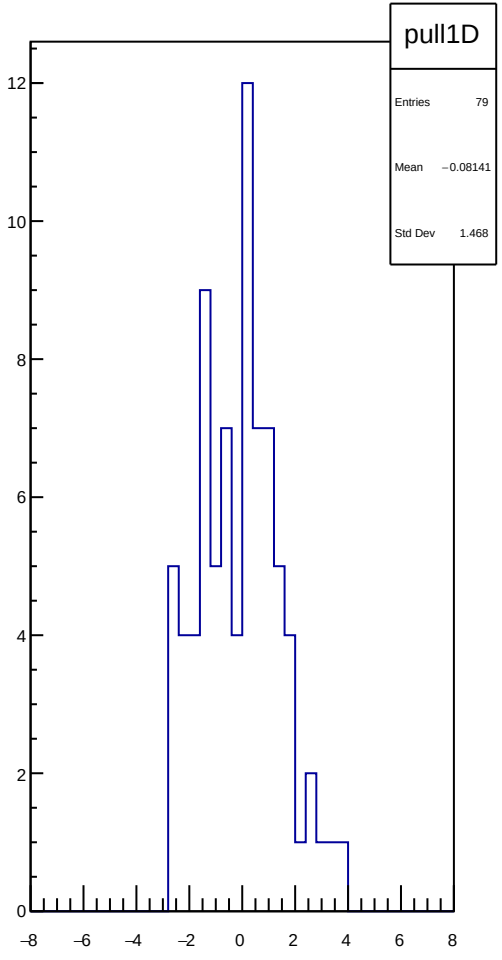

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 152.2 / 78
p0 29.97 ± 0.624
50
40
30
20
10
pull
Entries 79
Mean 259
Std Dev 0
3
2
1
0
−1
−2
−3

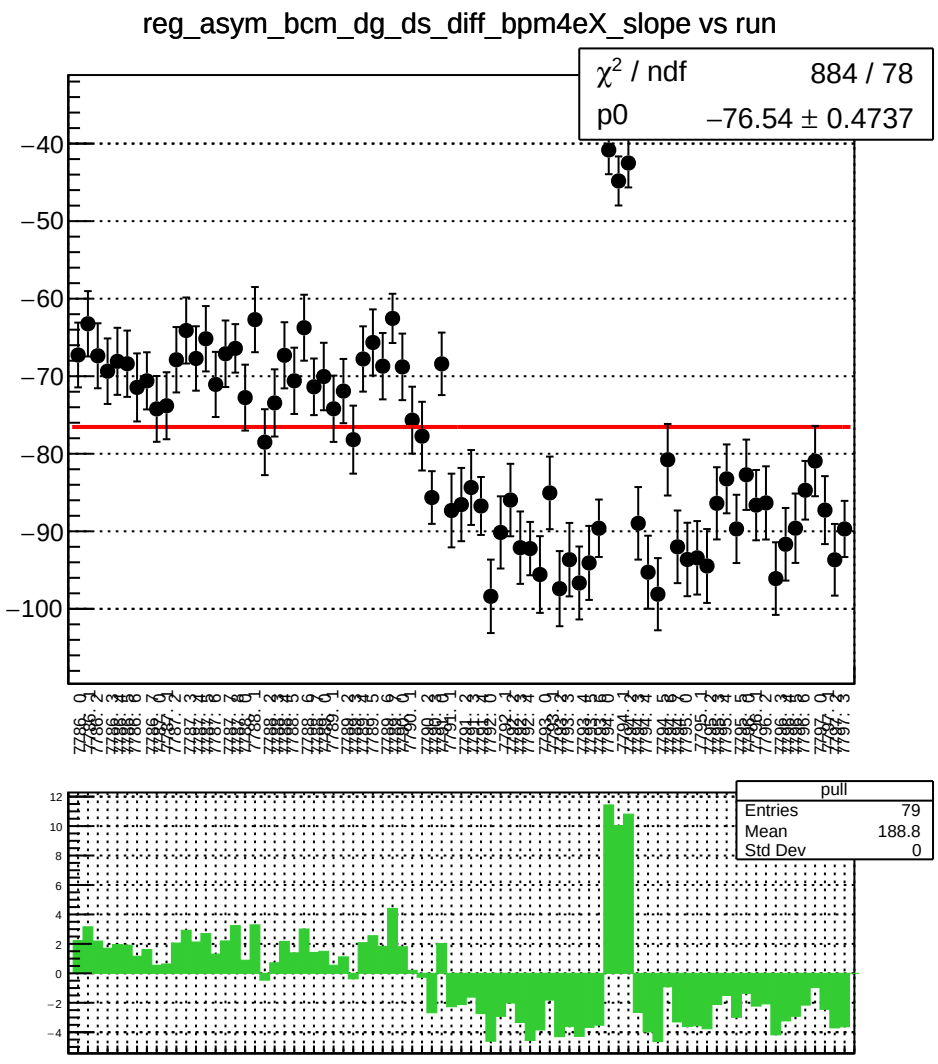

pull1D
Entries 79
Mean 0.0726
Std Dev 1.386
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

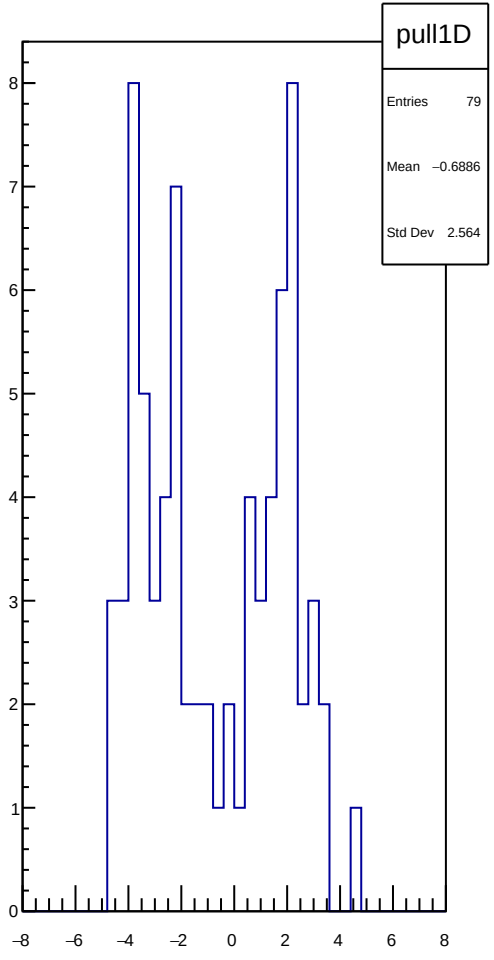

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 545.3 / 78
p0 2.163 ± 0.01938
pull
Entries 79
Mean 197
Std Dev 0
pull1D
Entries 79
Mean 0.2252
Std Dev 2.618

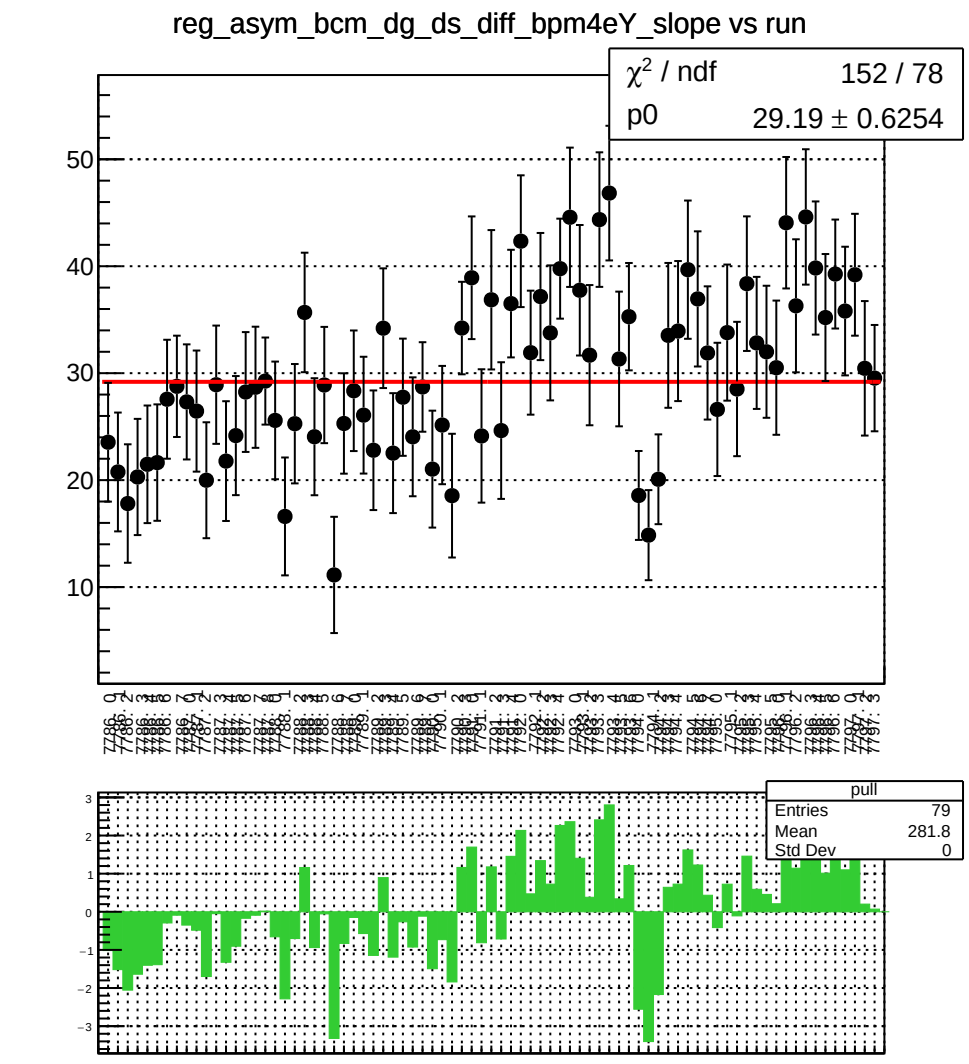

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 919 / 78
p0 87.9 ± 0.5443
pull
Entries 79
Mean 192.9
Std Dev 0
pull1D
Entries 79
Mean 0.6929
Std Dev 2.695

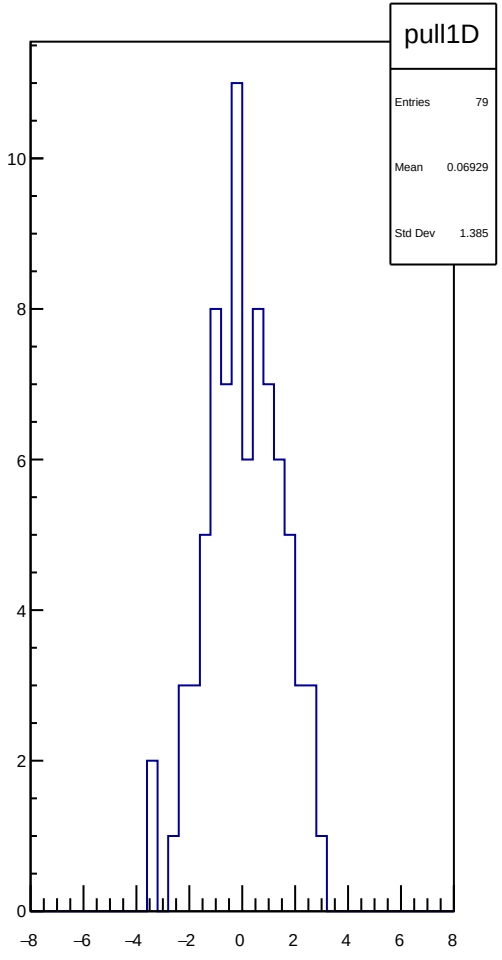

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 170.7 / 78
p0 −27.78 ± 0.5517
pull
Entries 79
Mean 251.6
Std Dev 0

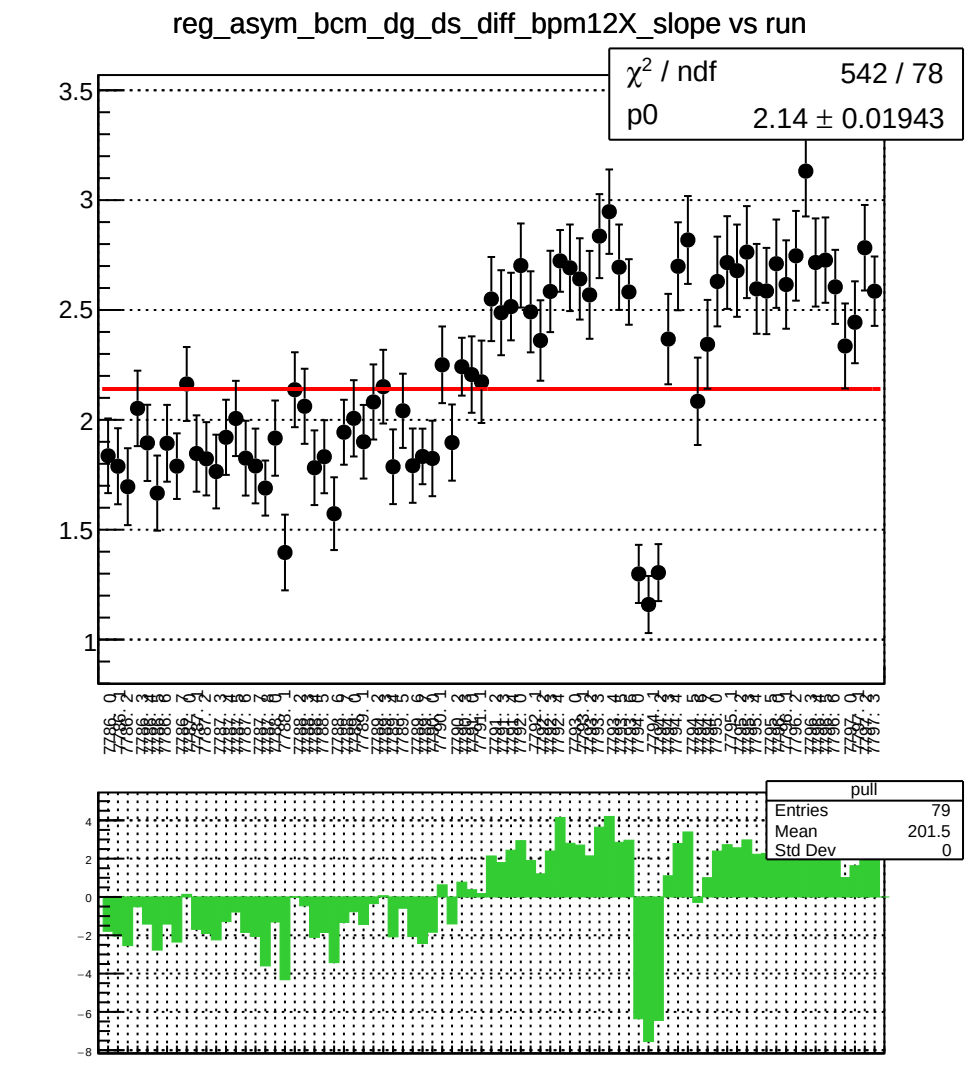

pull1D
Entries 79
Mean −0.08141
Std Dev 1.468

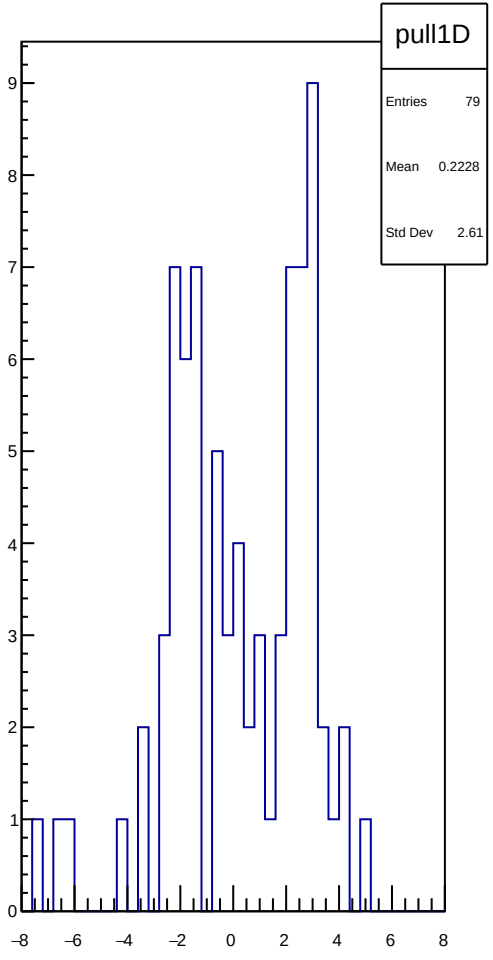

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 884 / 78
p0 −76.54 ± 0.4737
pull
Entries 79
Mean 188.8
Std Dev 0

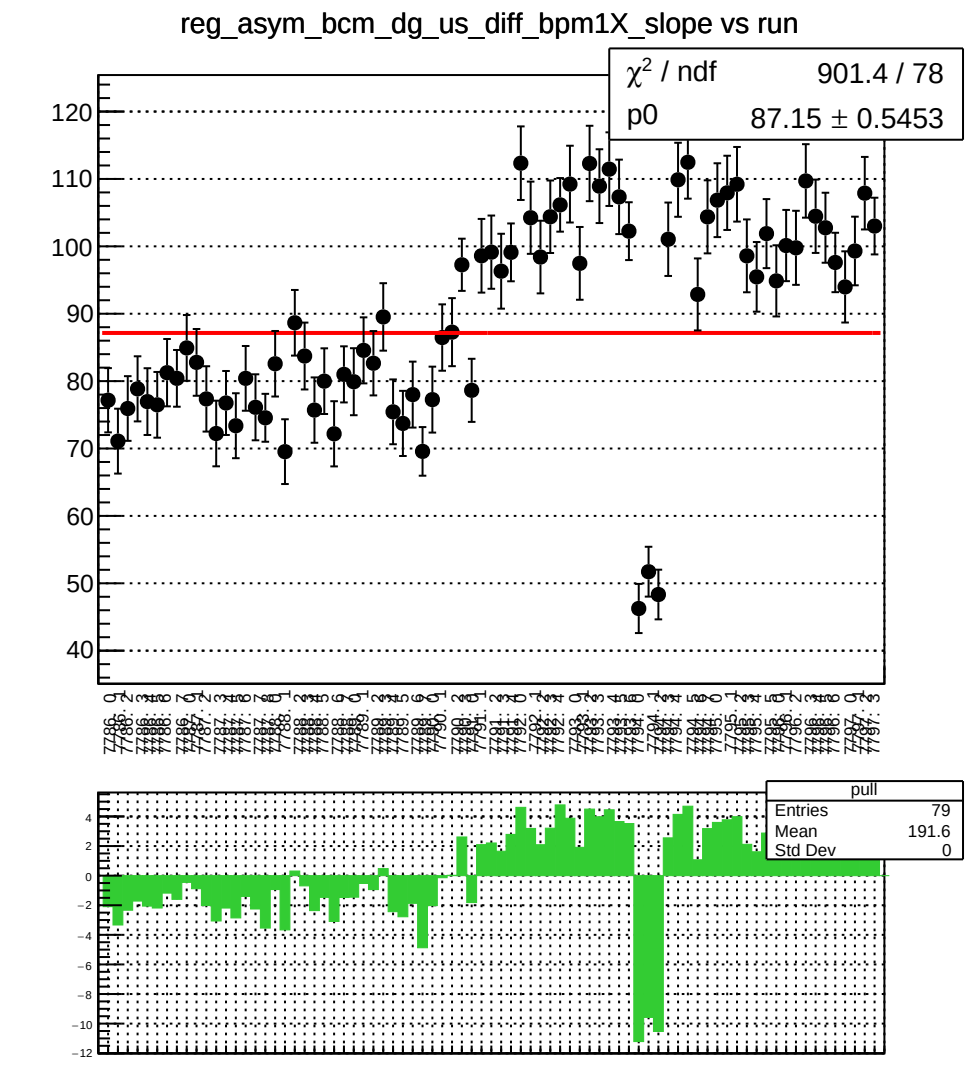

pull1D
Entries 79
Mean −0.6886
Std Dev 2.564

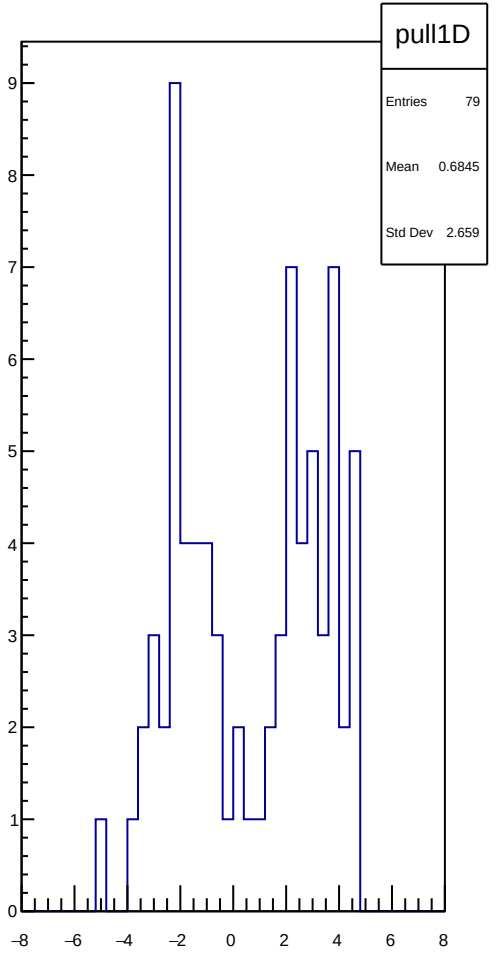

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 152 / 78
p0 29.19 ± 0.6254
pull
Entries 79
Mean 281.8
Std Dev 0

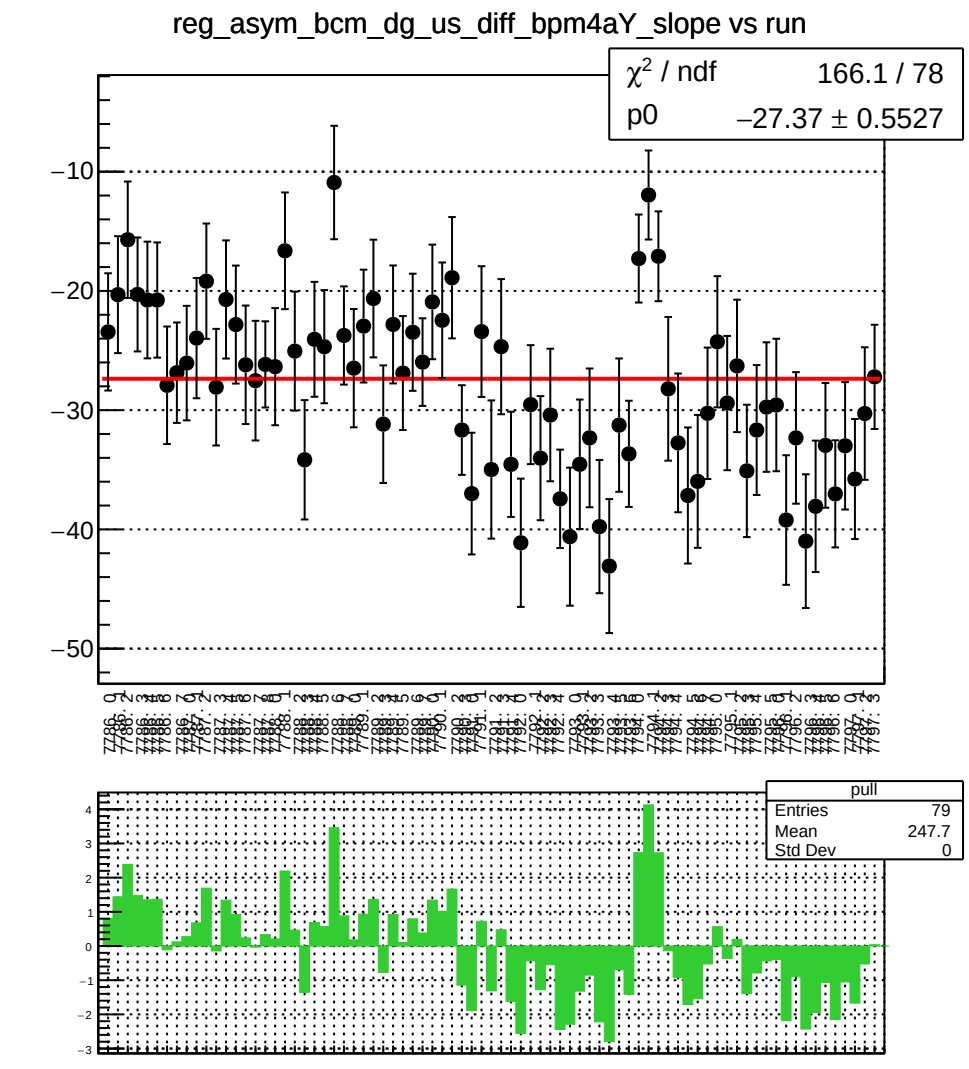

pull1D
Entries 79
Mean 0.06929
Std Dev 1.385

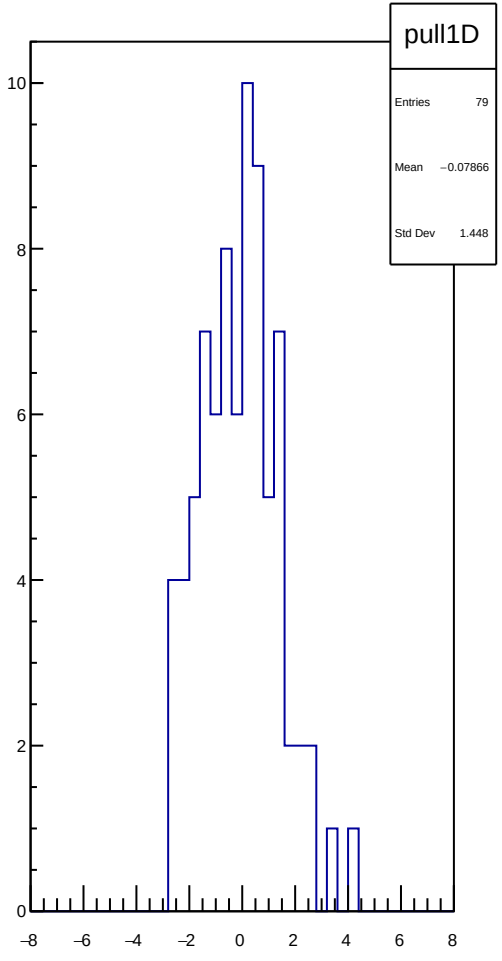

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 542 / 78
p0 2.14 ± 0.01943
pull
Entries 79
Mean 201.5
Std Dev 0

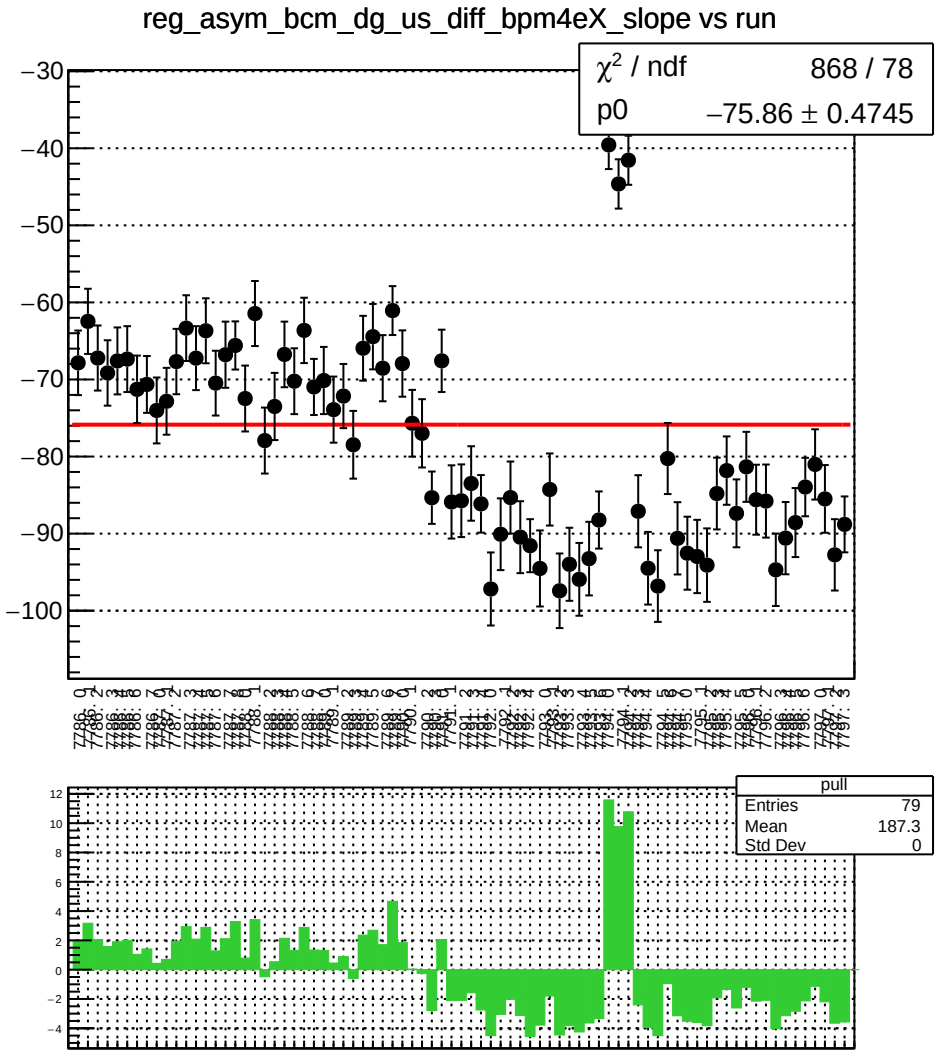

pull1D
Entries 79
Mean 0.2228
Std Dev 2.61

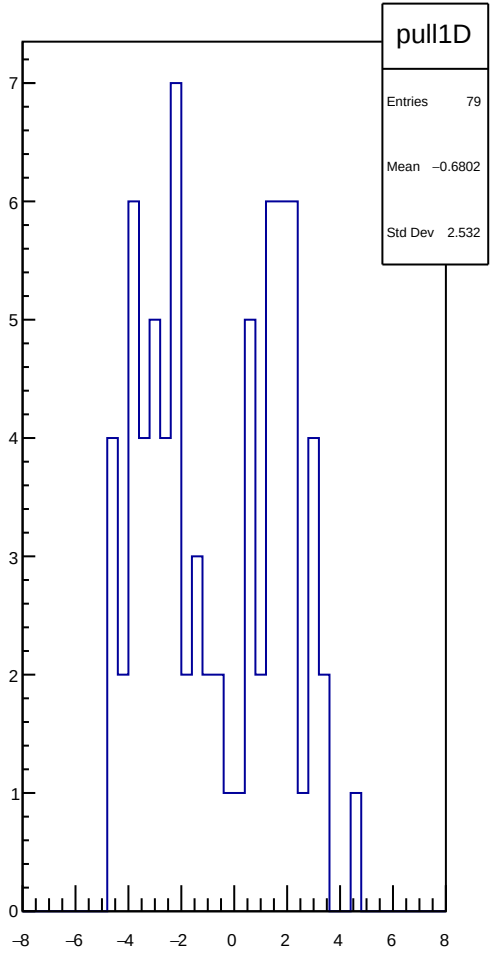

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 901.4 / 78
p0 87.15 ± 0.5453
pull
Entries 79
Mean 191.6
Std Dev 0

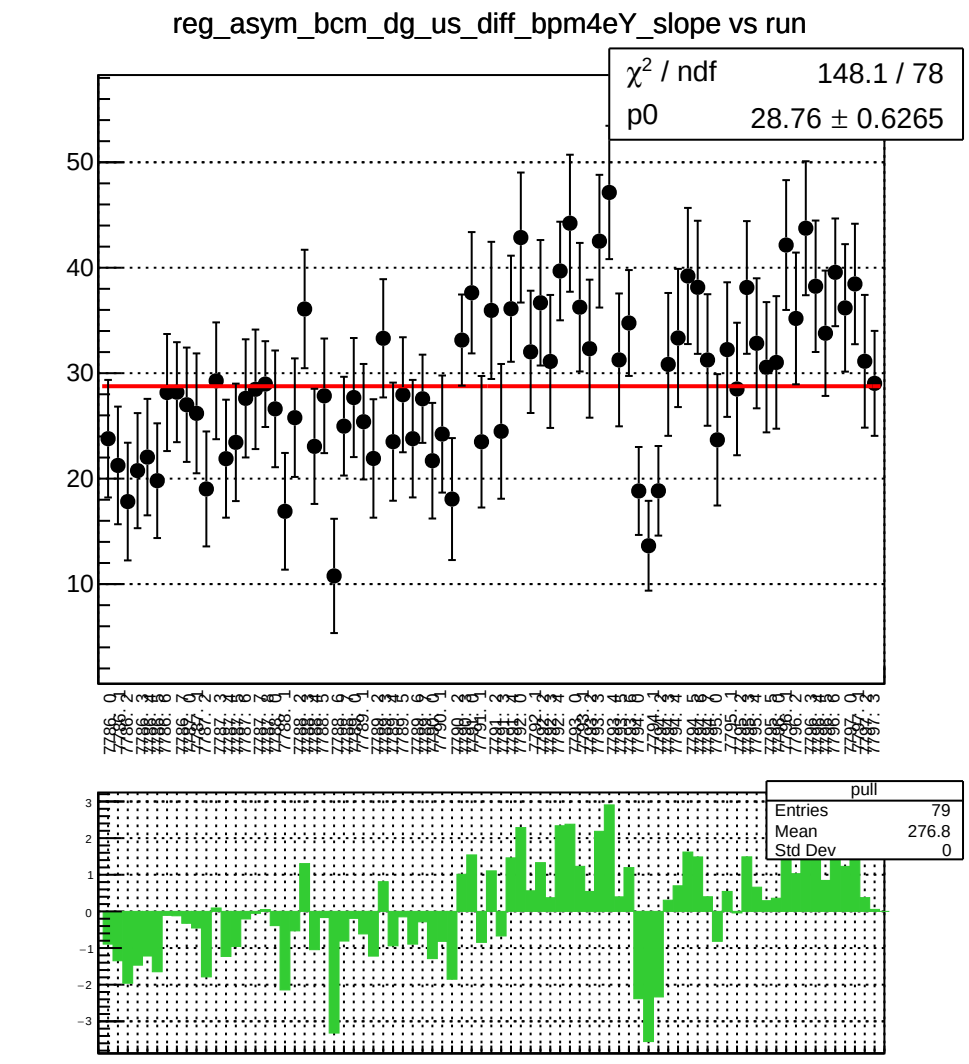

pull1D
Entries 79
Mean 0.6845
Std Dev 2.659

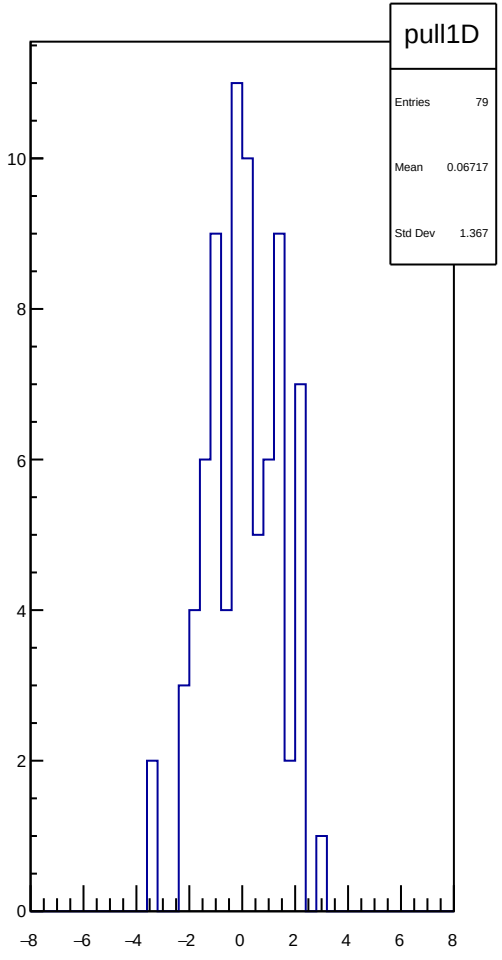

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 166.1 / 78
p0 −27.37 ± 0.5527
pull
Entries 79
Mean 247.7
Std Dev 0

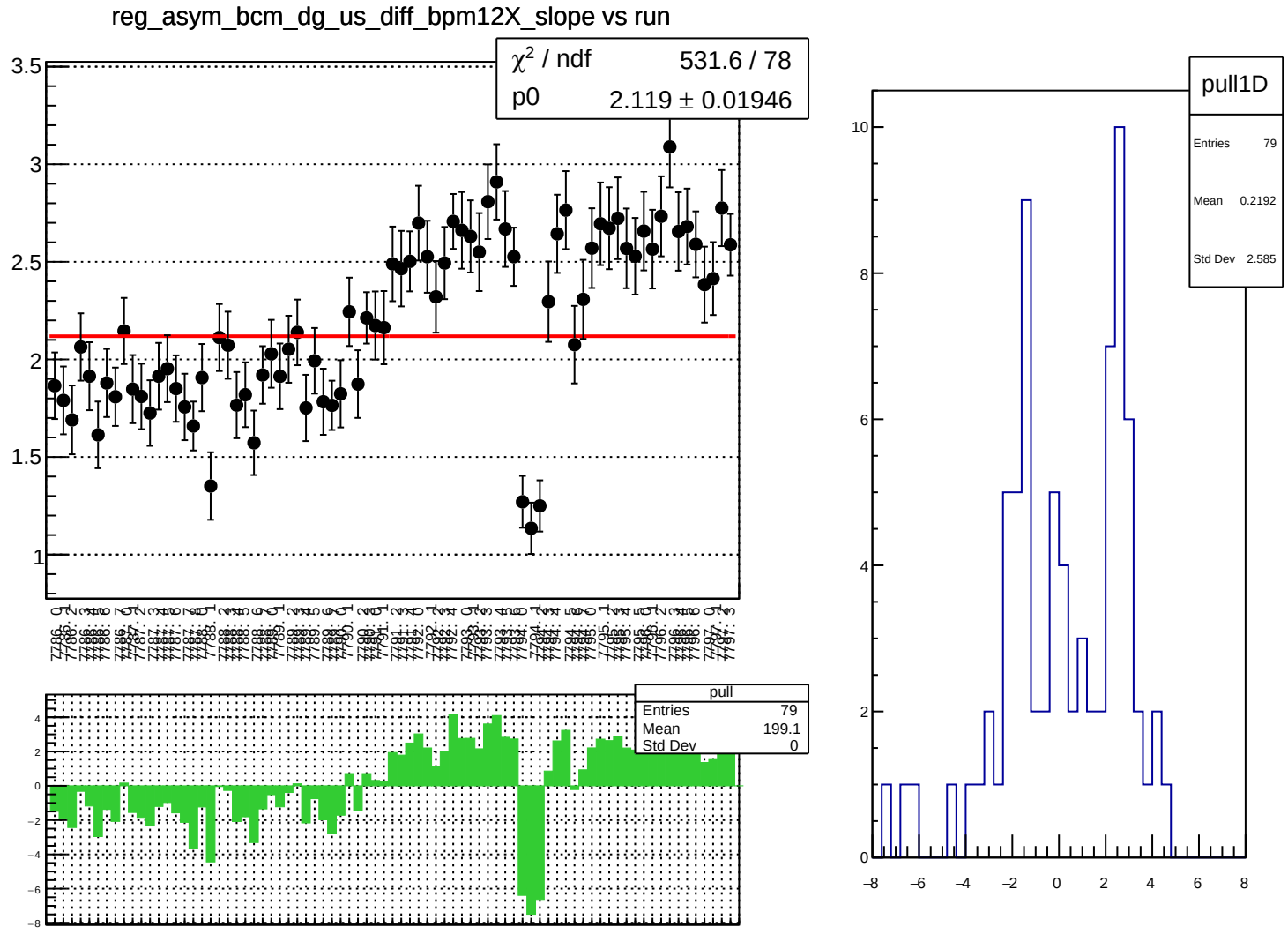

pull1D
Entries 79
Mean −0.07866
Std Dev 1.448

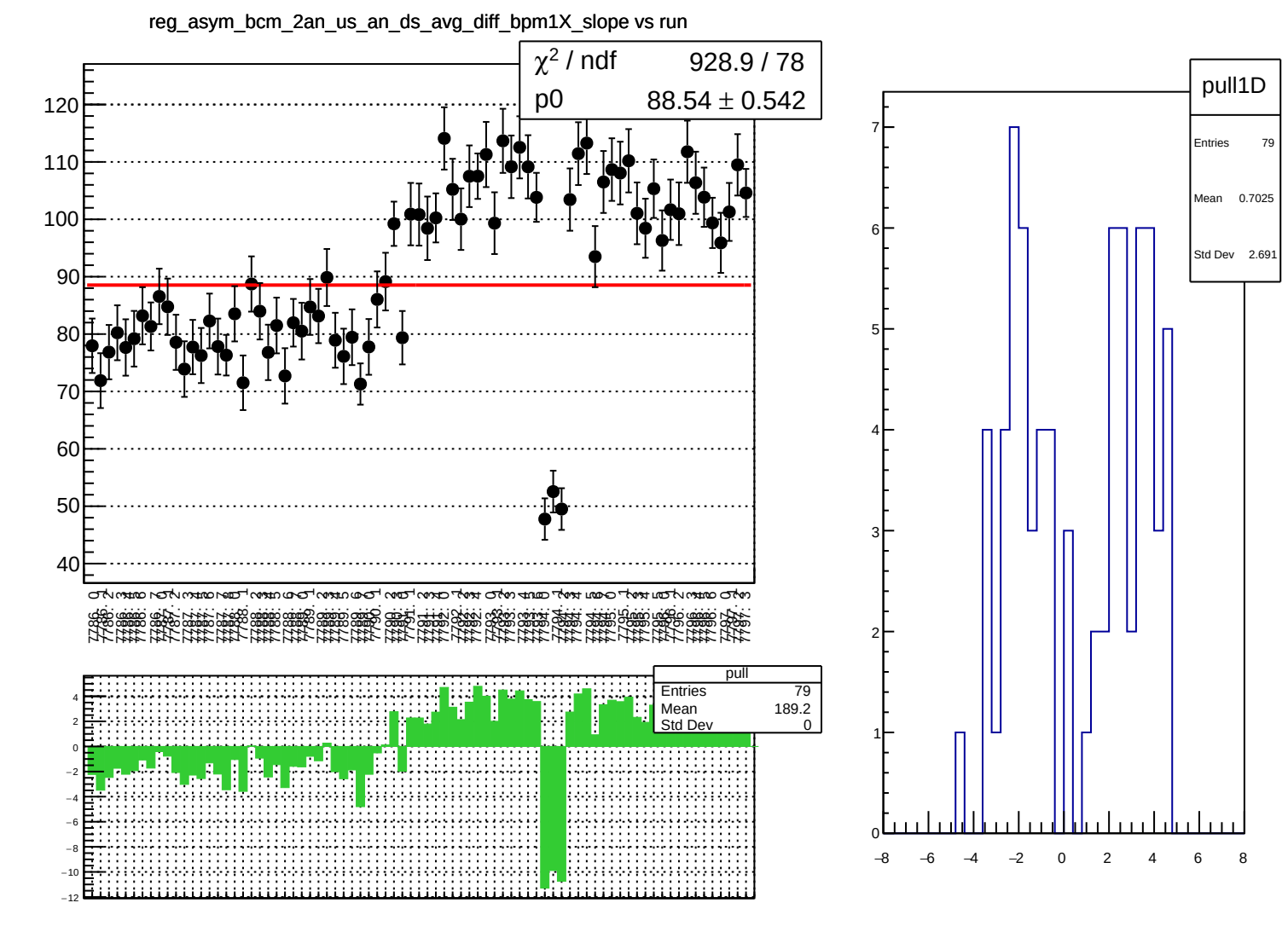

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 868 / 78
p0 −75.86 ± 0.4745
pull
Entries 79
Mean 187.3
Std Dev 0

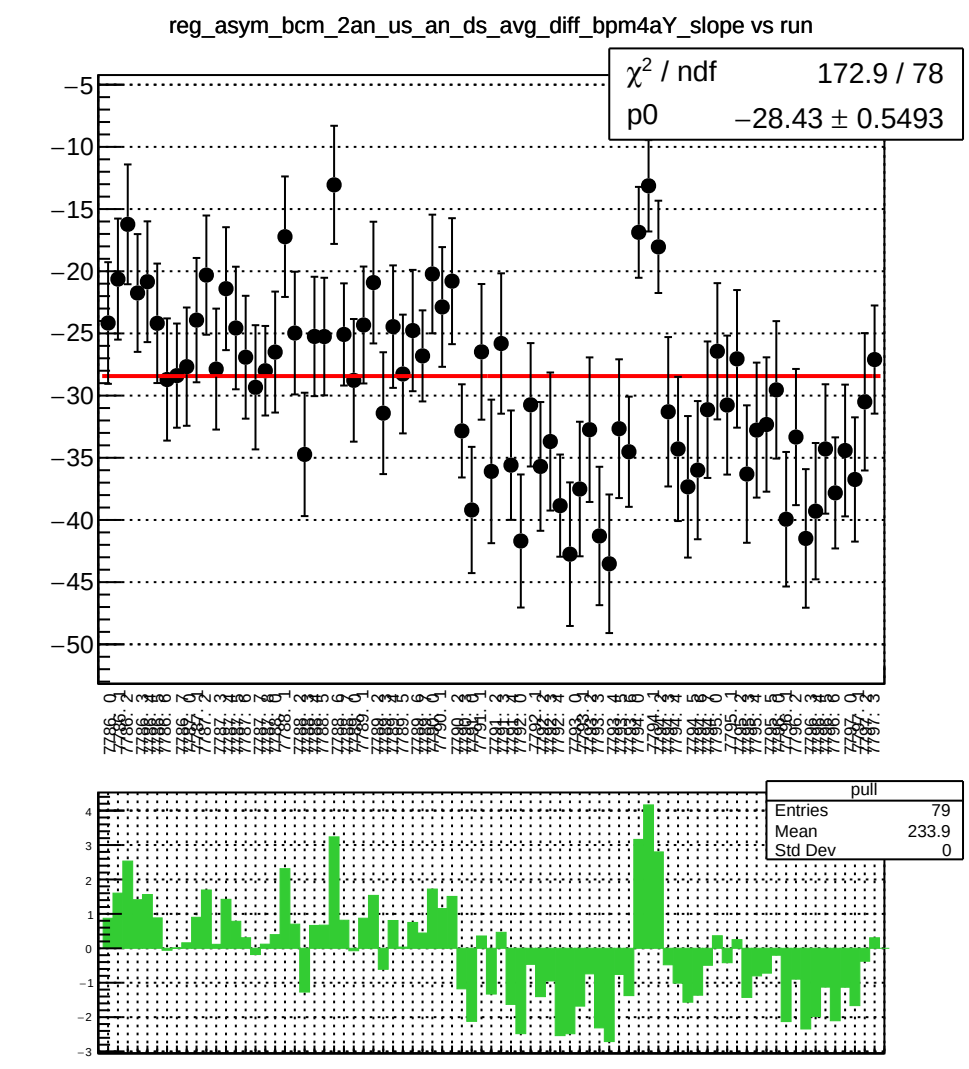

pull1D
Entries 79
Mean −0.6802
Std Dev 2.532

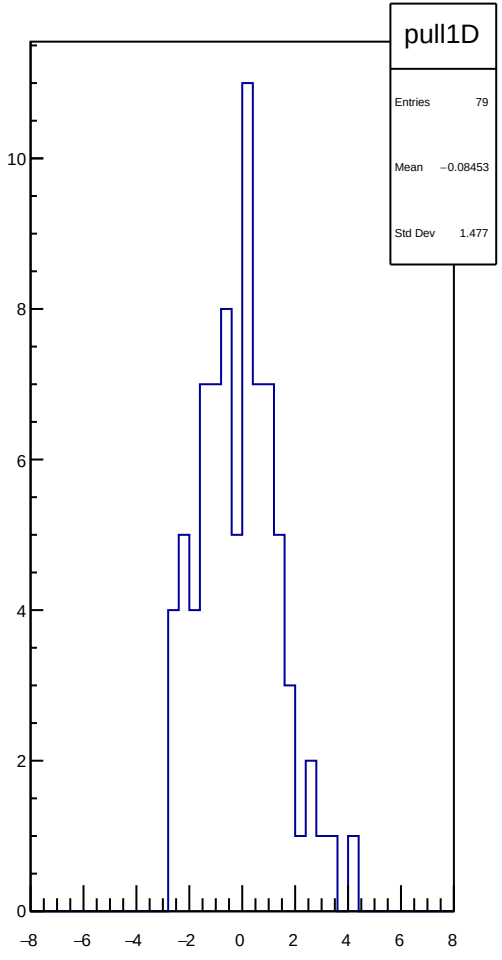

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 148.1 / 78
p0 28.76 ± 0.6265
pull
Entries 79
Mean 276.8
Std Dev 0

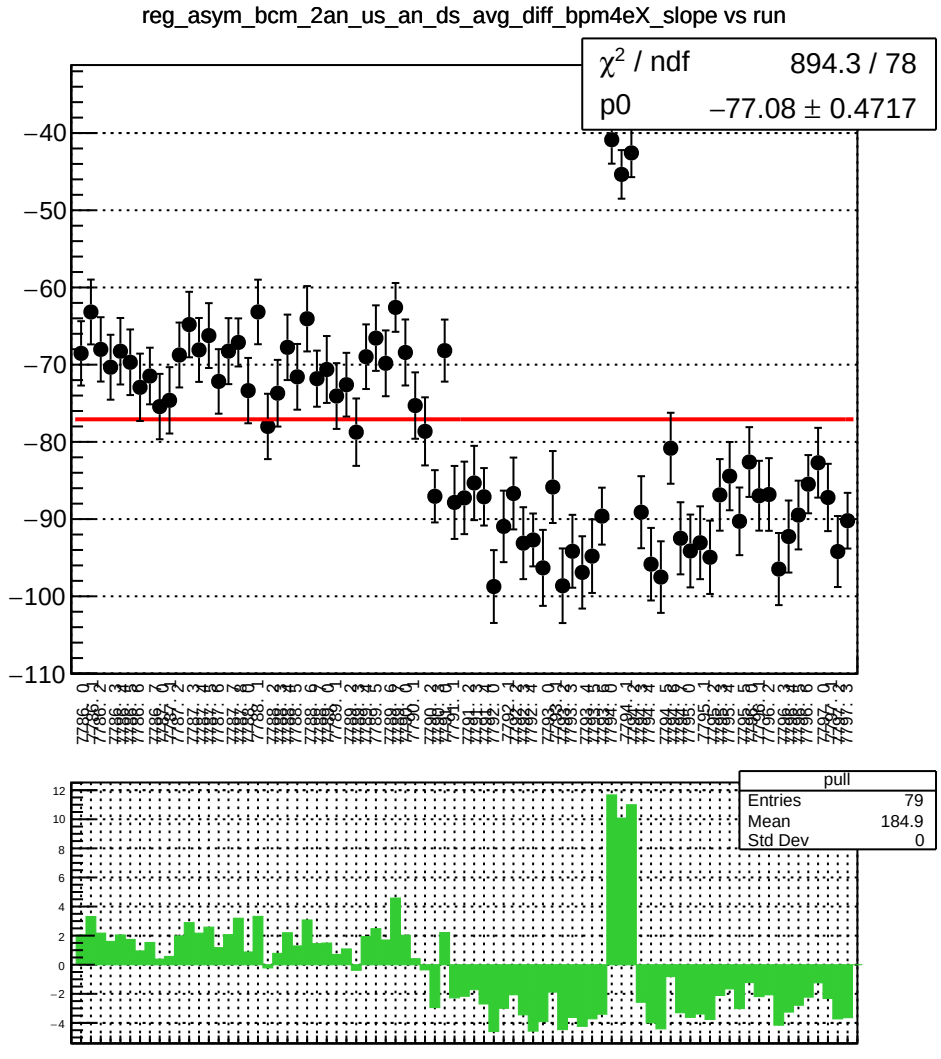

pull1D
Entries 79
Mean 0.06717
Std Dev 1.367

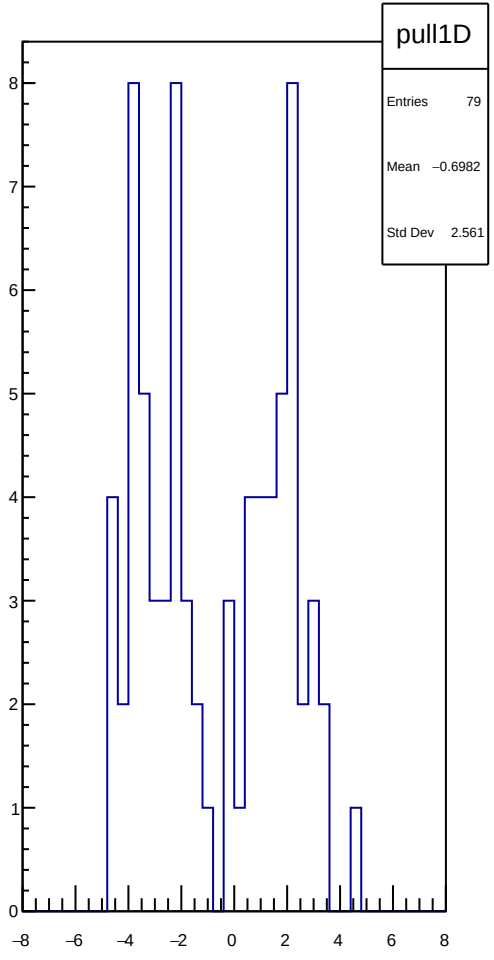

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 531.6 / 78
p0 2.119 ± 0.01946
pull
Entries 79
Mean 199.1
Std Dev 0
pull1D
Entries 79
Mean 0.2192
Std Dev 2.585

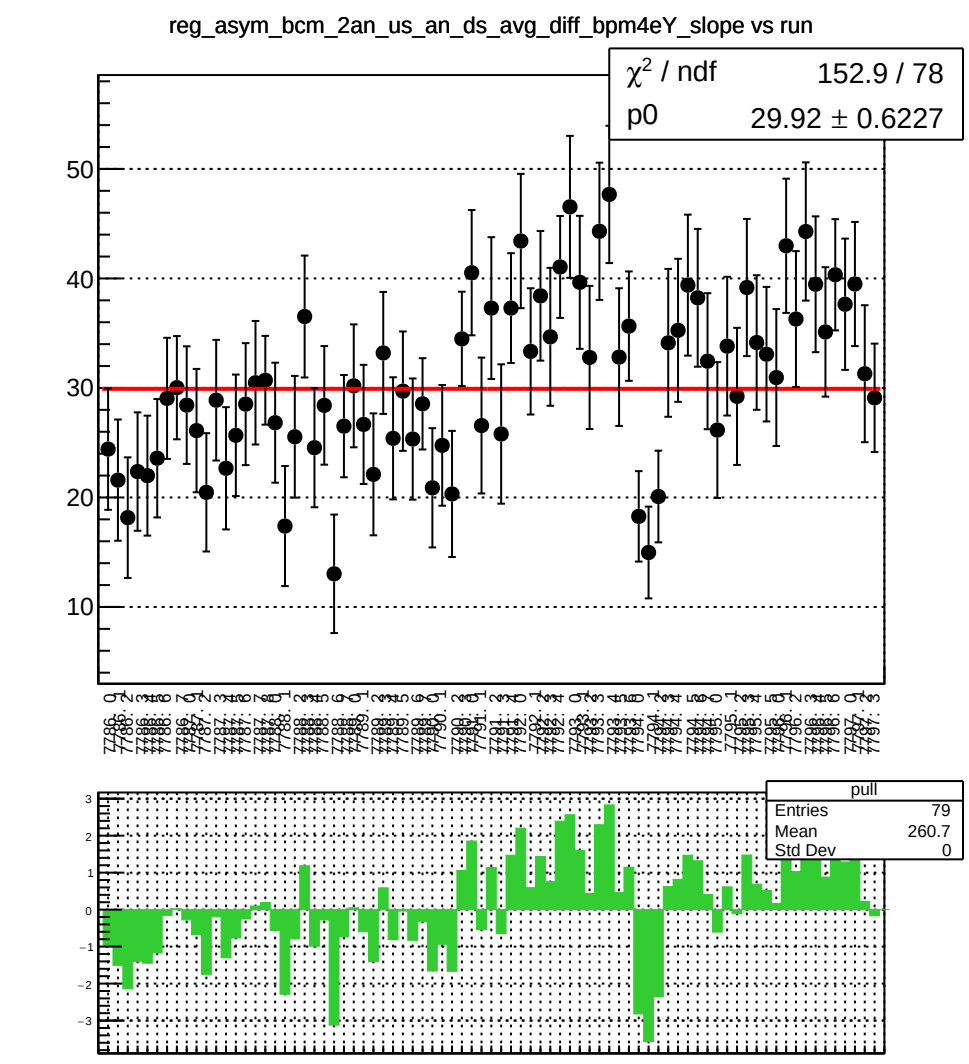

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 928.9 / 78
p0 88.54 ± 0.542
pull
Entries 79
Mean 189.2
Std Dev 0
pull1D
Entries 79
Mean 0.7025
Std Dev 2.691

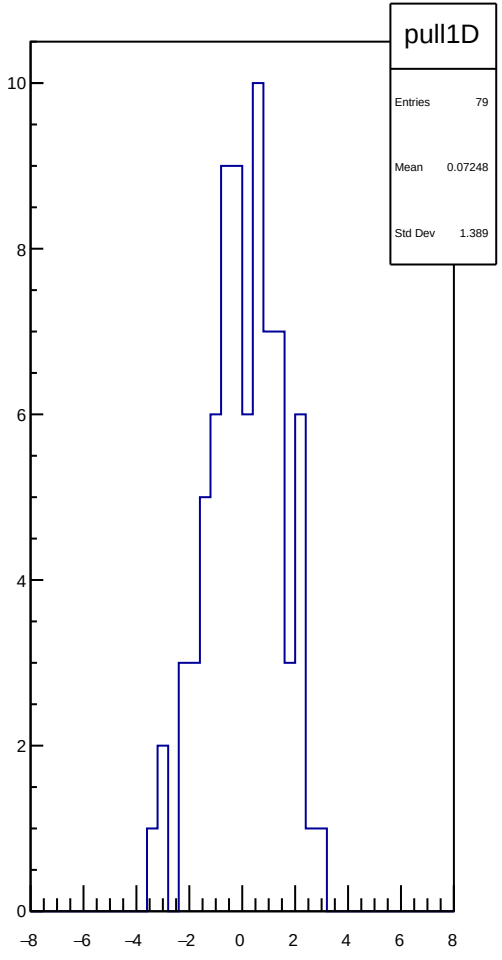

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 172.9 / 78
p0 −28.43 ± 0.5493
pull
Entries 79
Mean 233.9
Std Dev 0

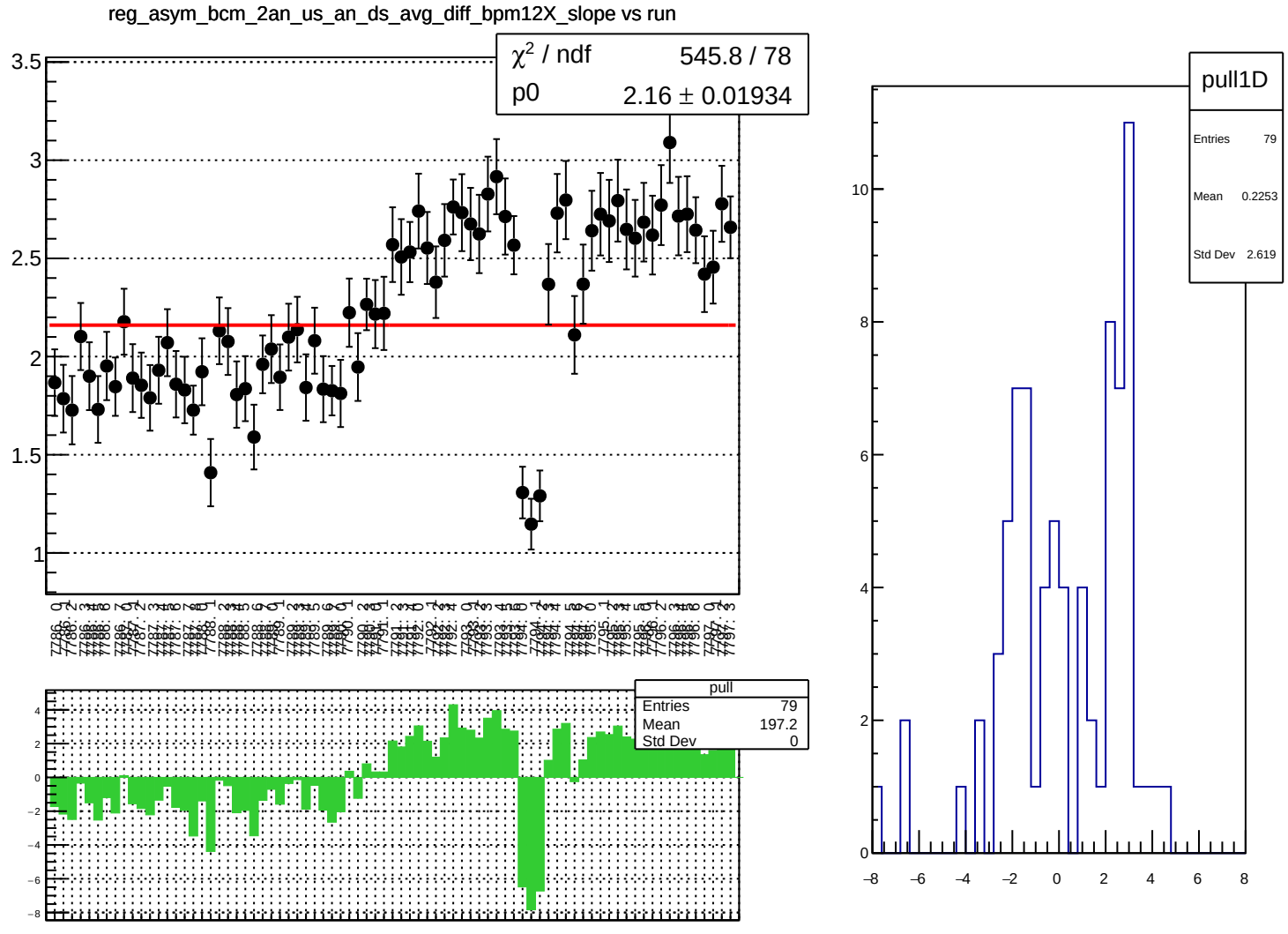

pull1D
Entries 79
Mean −0.08453
Std Dev 1.477

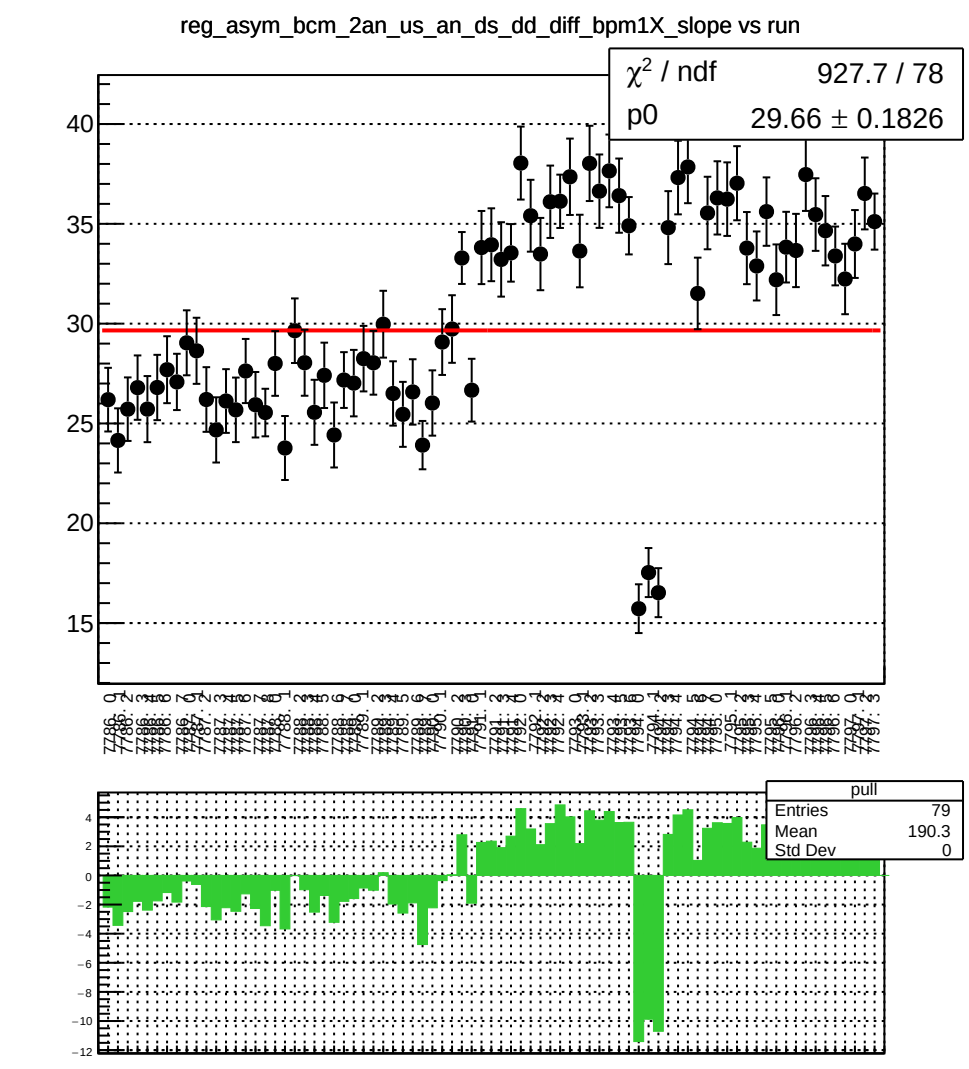

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 894.3 / 78
p0 −77.08 ± 0.4717
pull
Entries 79
Mean 184.9
Std Dev 0

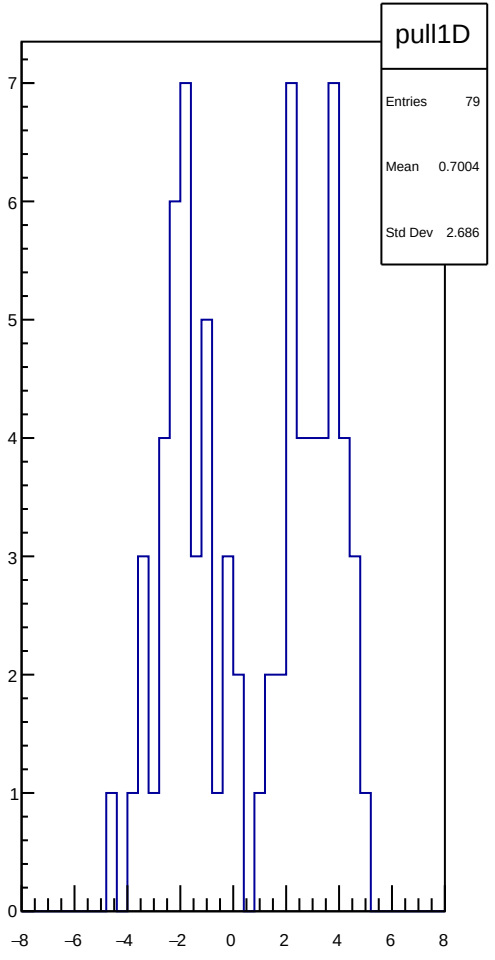

pull1D
Entries 79
Mean −0.6982
Std Dev 2.561

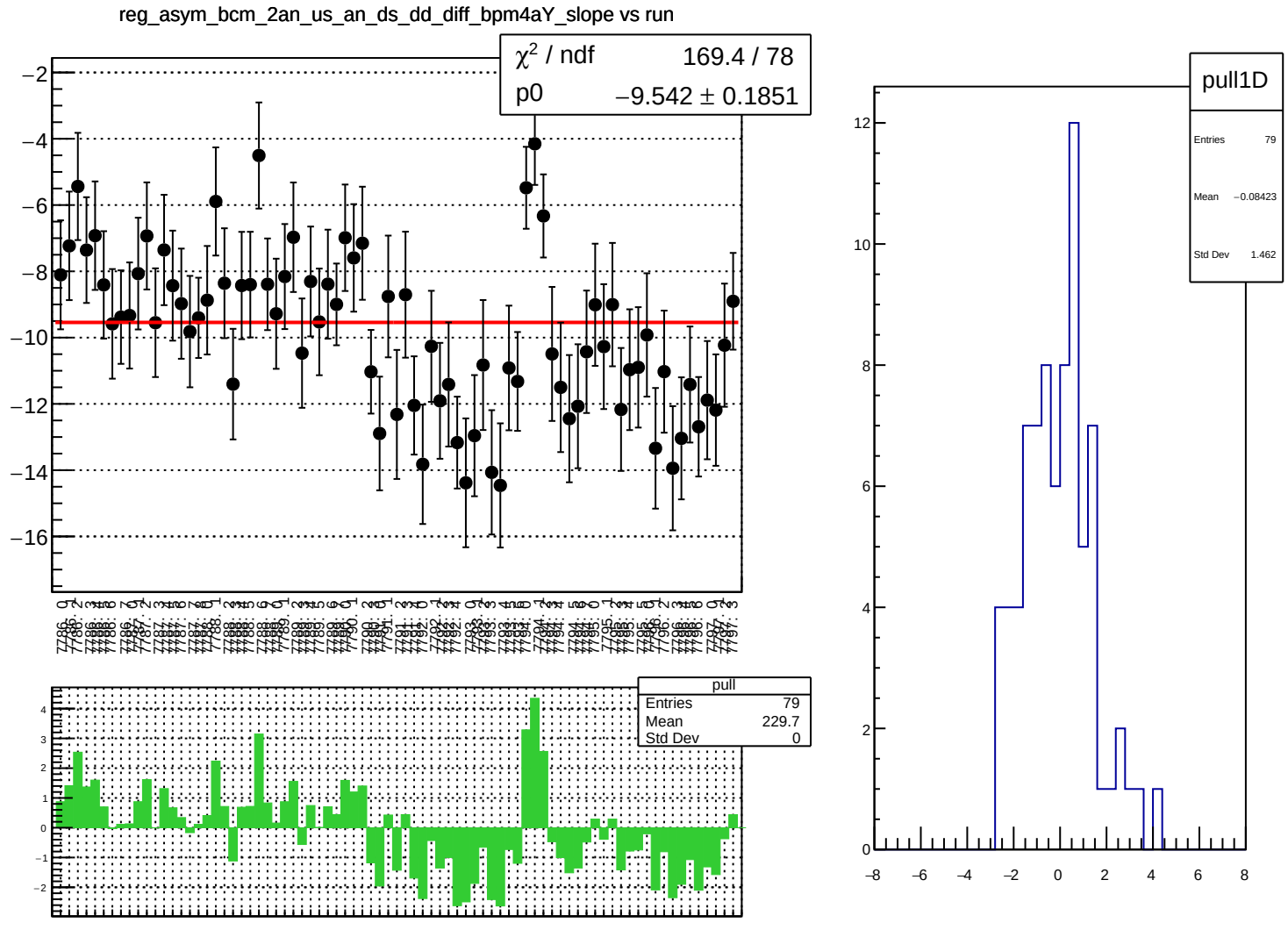

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 152.9 / 78
p0 29.92 ± 0.6227
pull
Entries 79
Mean 260.7
Std Dev 0

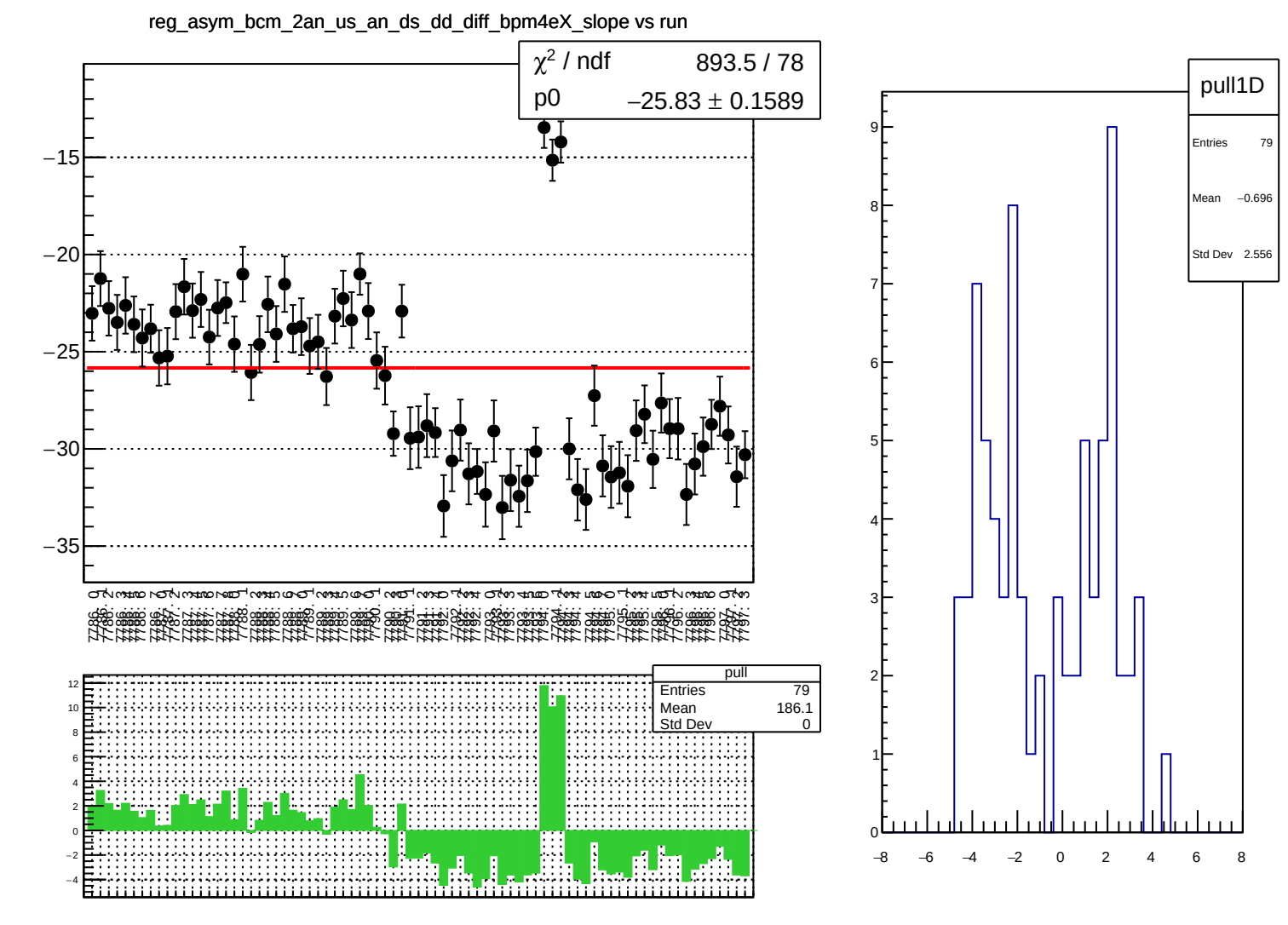

pull1D
Entries 79
Mean 0.07248
Std Dev 1.389

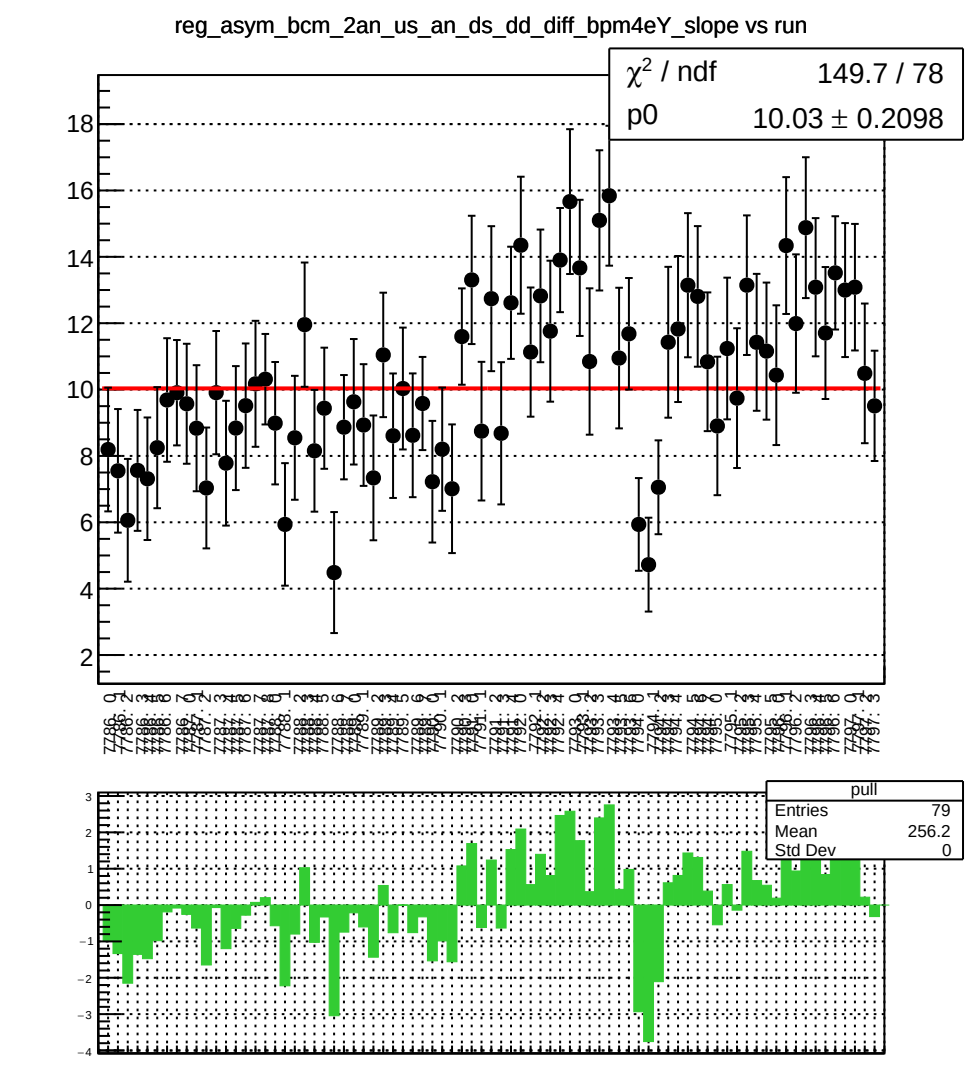

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 545.8 / 78
p0 2.16 ± 0.01934
pull
Entries 79
Mean 197.2
Std Dev 0
pull1D
Entries 79
Mean 0.2253
Std Dev 2.619

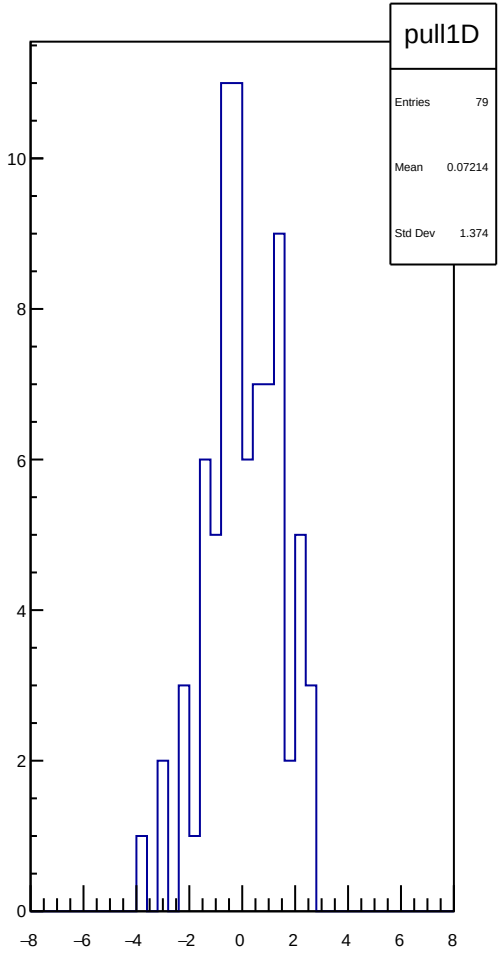

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 927.7 / 78
p0 29.66 ± 0.1826
pull
Entries 79
Mean 190.3
Std Dev 0

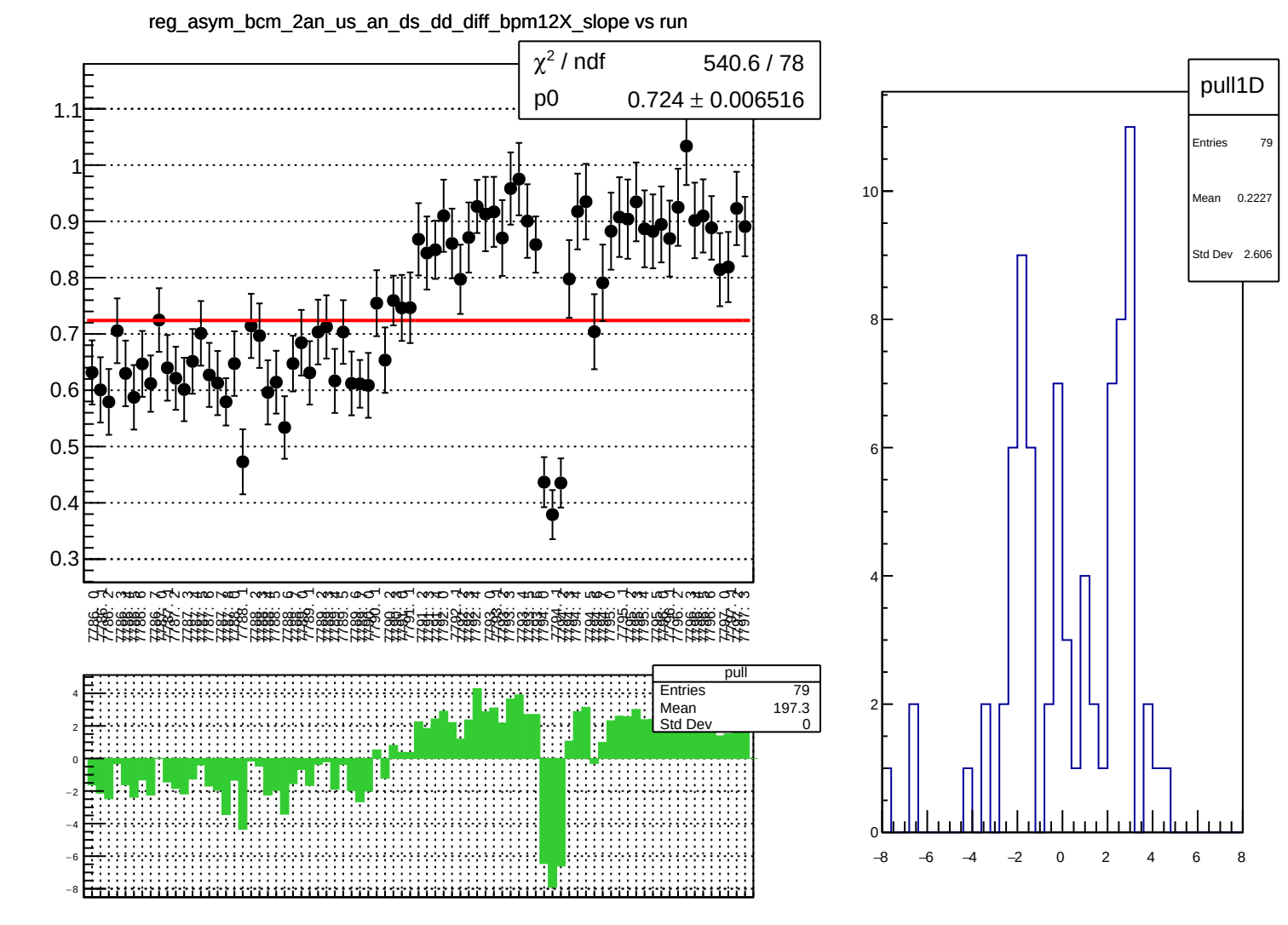

pull1D
Entries 79
Mean 0.7004
Std Dev 2.686

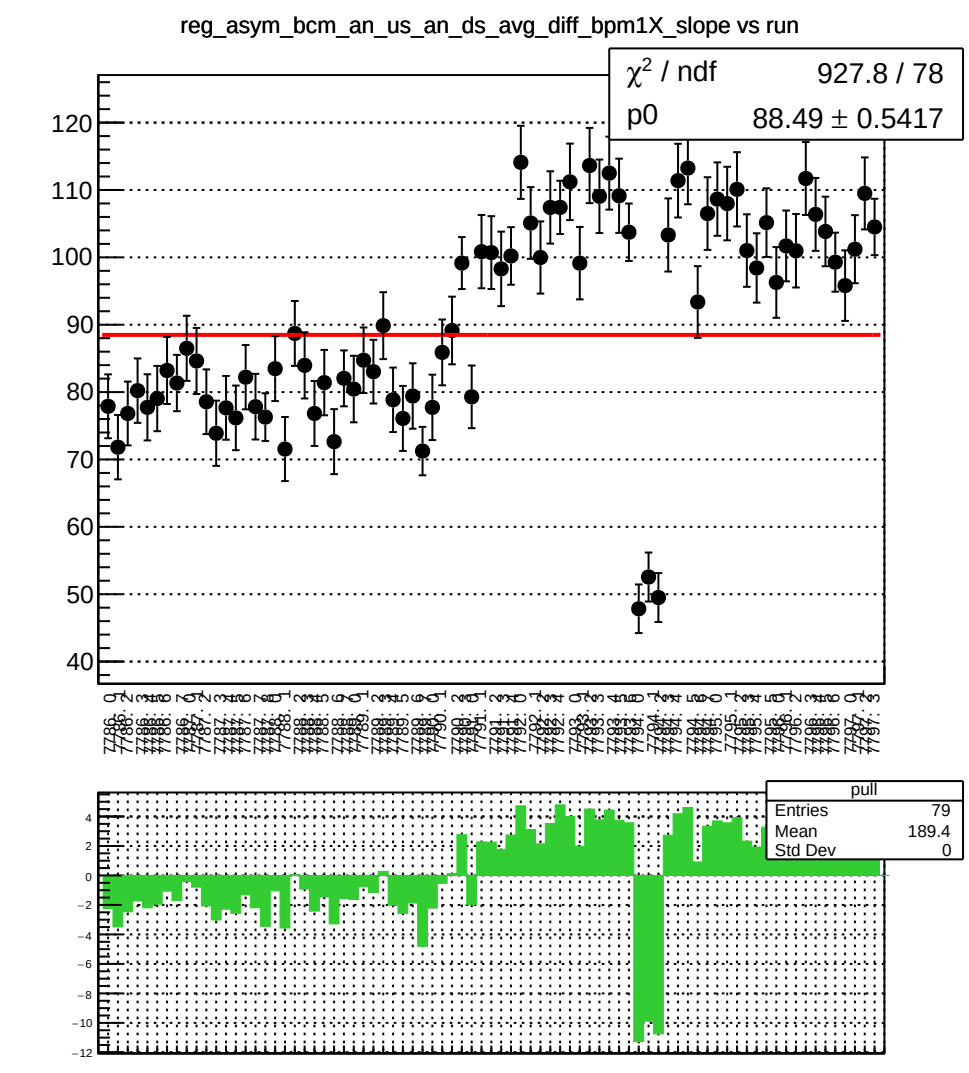

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 169.4 / 78
p0 −9.542 ± 0.1851
pull
Entries 79
Mean 229.7
Std Dev 0
pull1D
Entries 79
Mean −0.08423
Std Dev 1.462

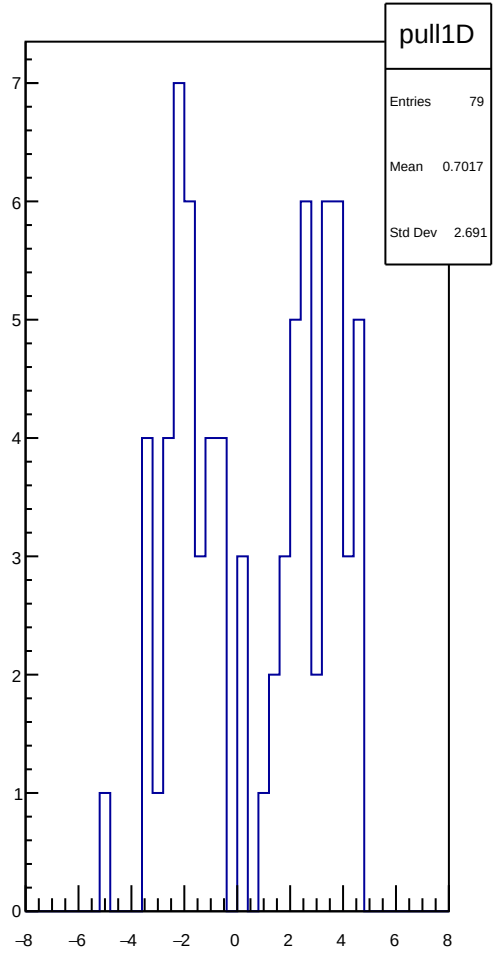

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 893.5 / 78
p0 −25.83 ± 0.1589
pull
Entries 79
Mean 186.1
Std Dev 0
pull1D
Entries 79
Mean −0.696
Std Dev 2.556

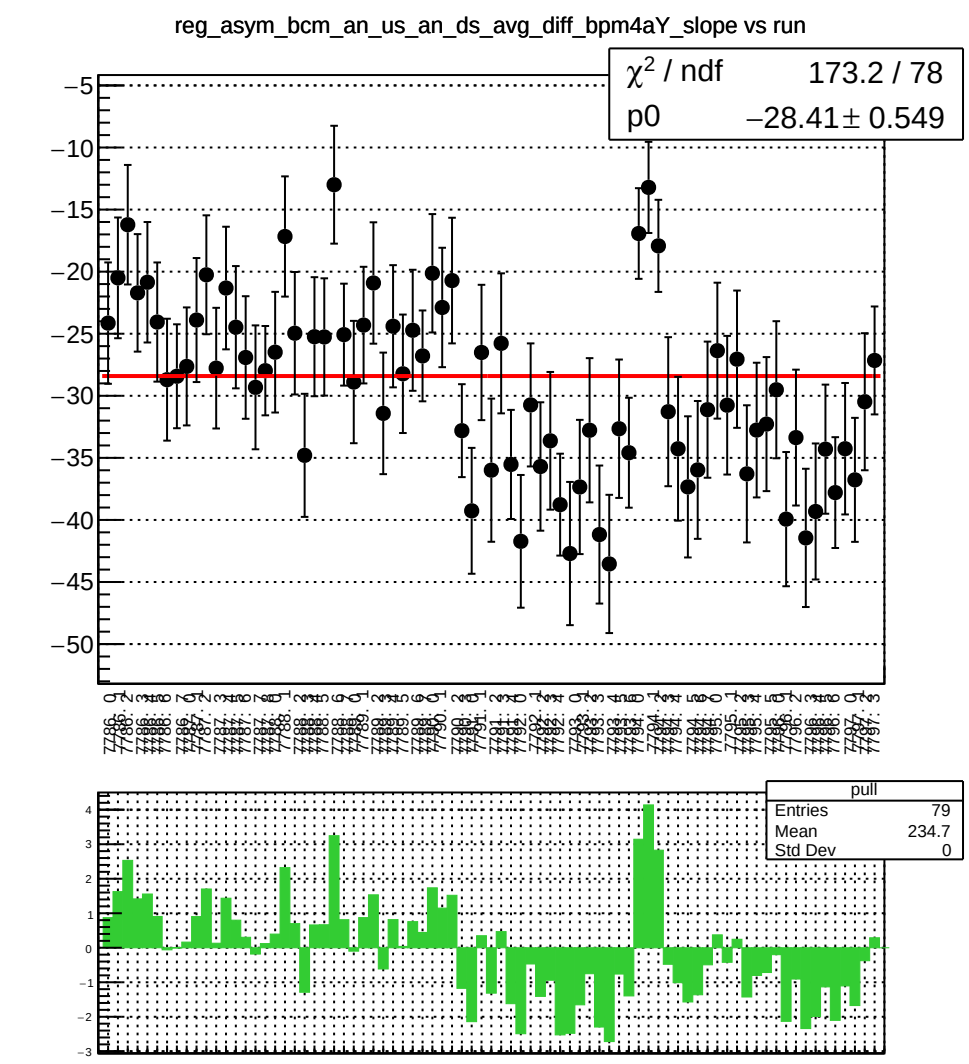

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 149.7 / 78
p0 10.03 ± 0.2098
pull
Entries 79
Mean 256.2
Std Dev 0

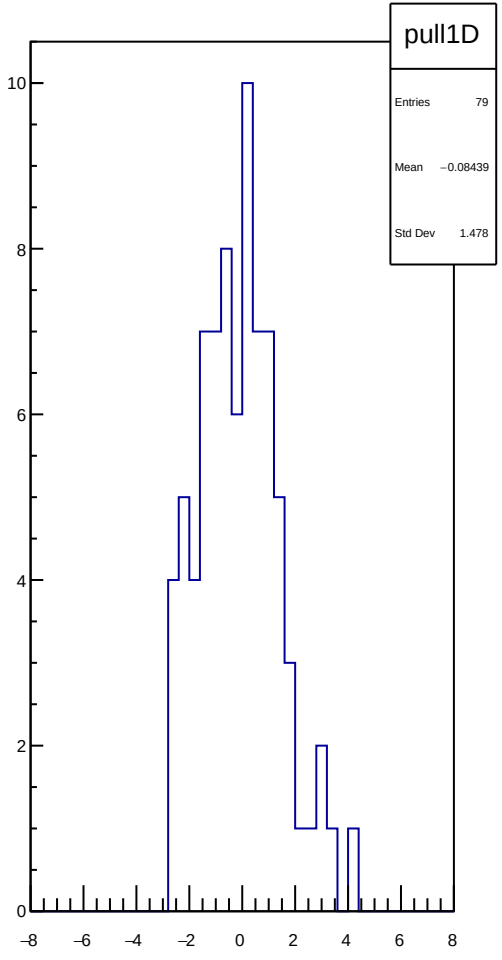

pull1D
Entries 79
Mean 0.07214
Std Dev 1.374

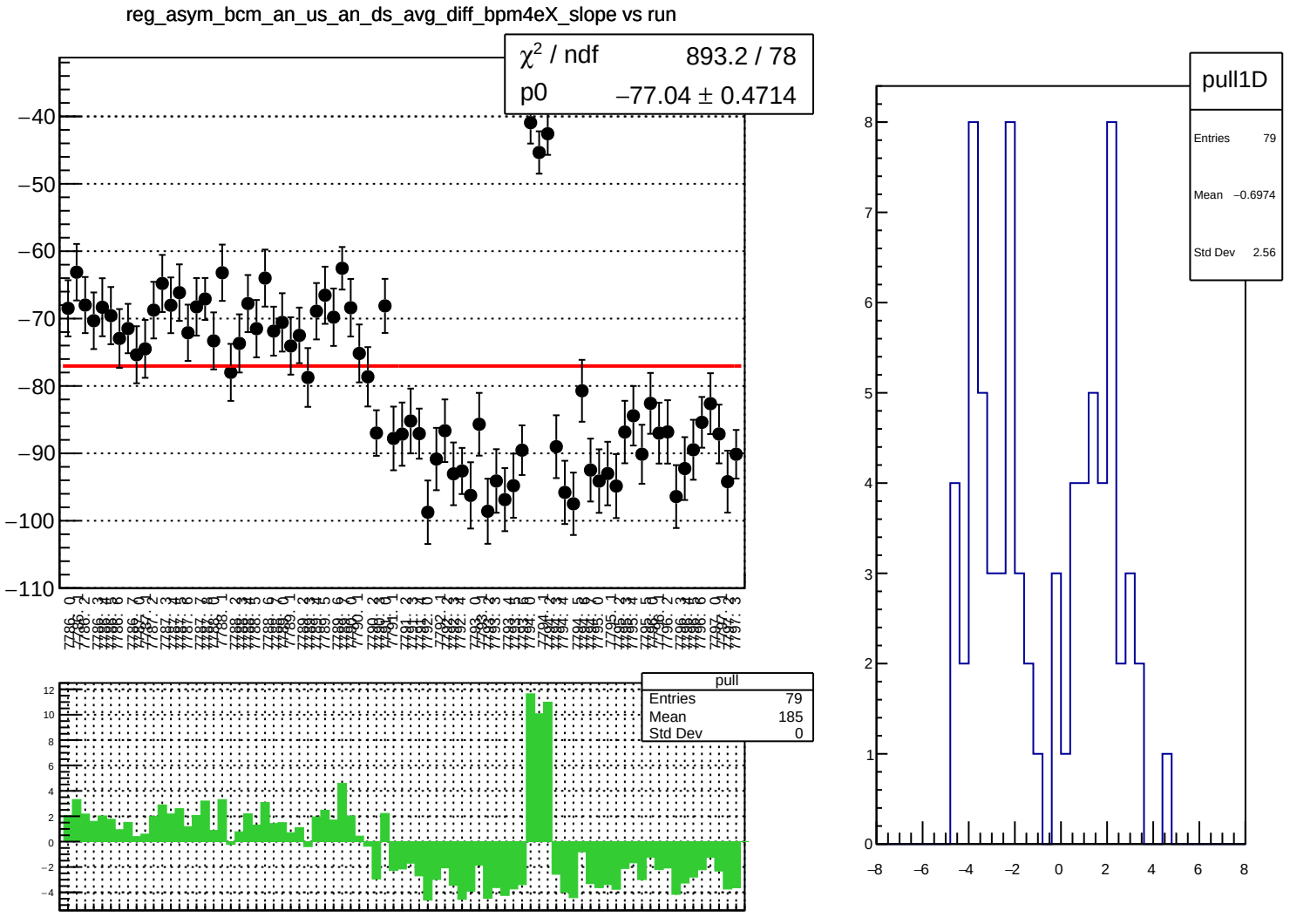

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 540.6 / 78
p0 0.724 ± 0.006516
pull
Entries 79
Mean 197.3
Std Dev 0
pull1D
Entries 79
Mean 0.2227
Std Dev 2.606

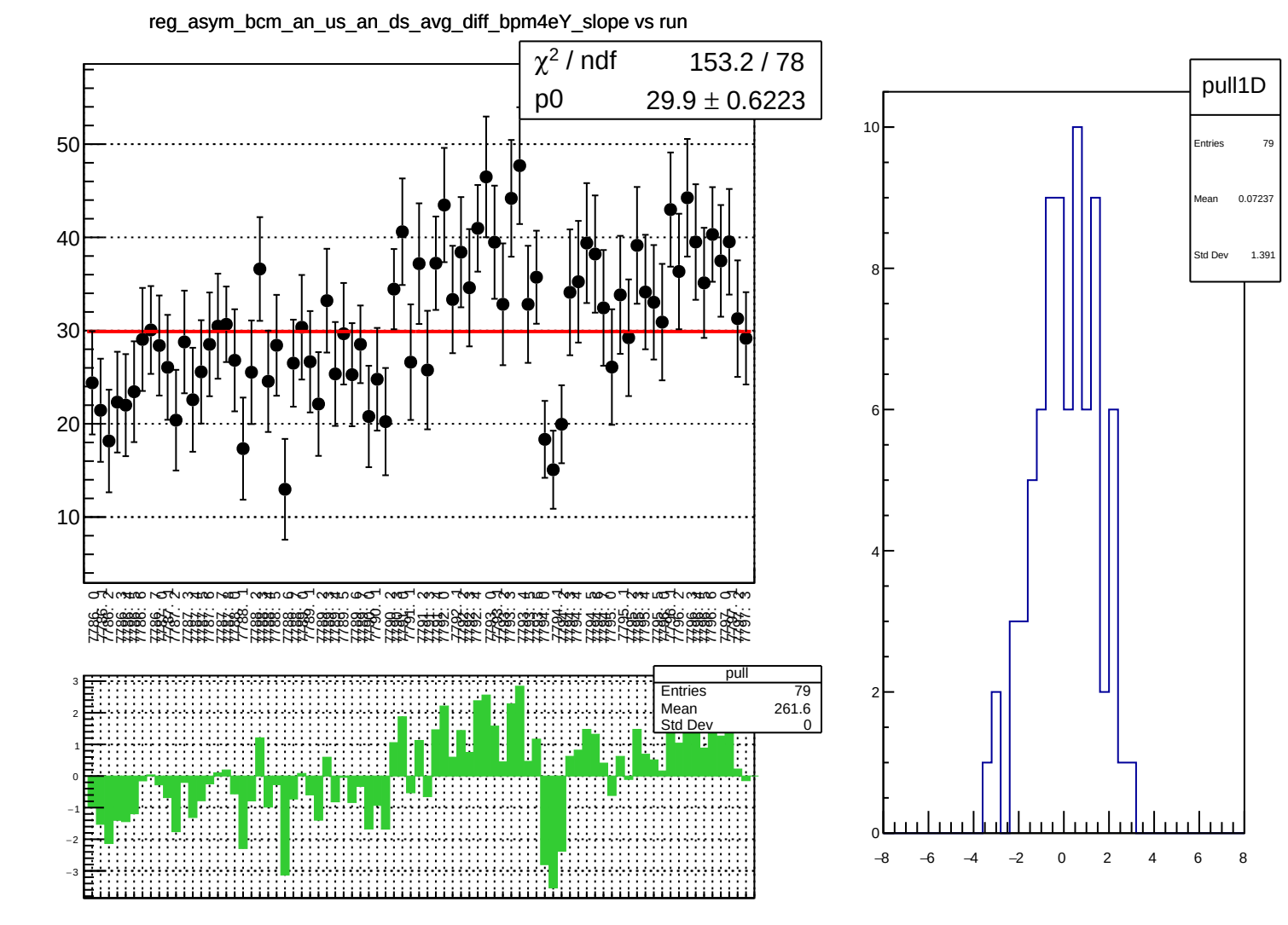

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 927.8 / 78
p0 88.49 ± 0.5417
pull
Entries 79
Mean 189.4
Std Dev 0

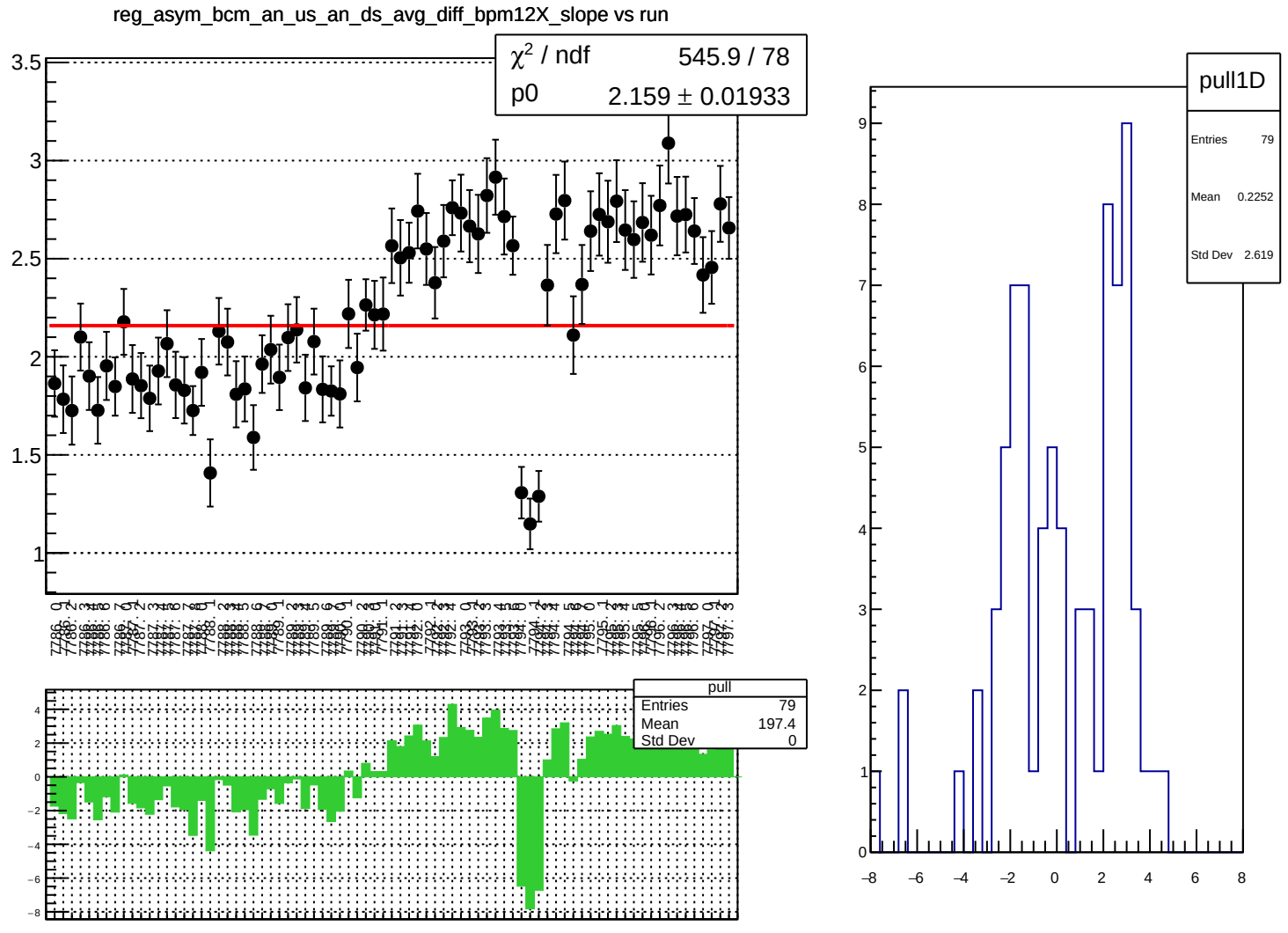

pull1D
Entries 79
Mean 0.7017
Std Dev 2.691

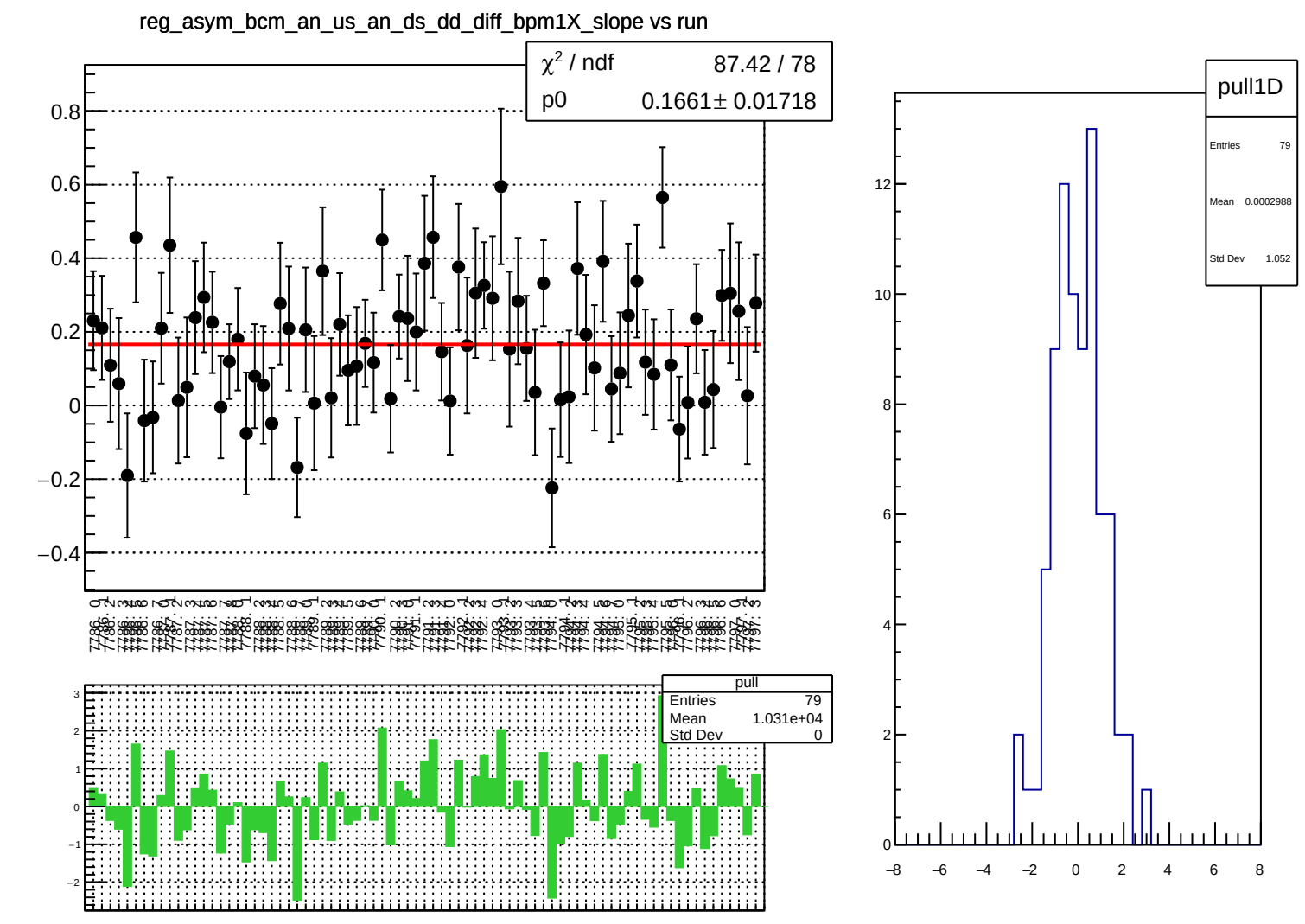

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 173.2 / 78
p0 −28.41 ± 0.549
pull
Entries 79
Mean 234.7
Std Dev 0

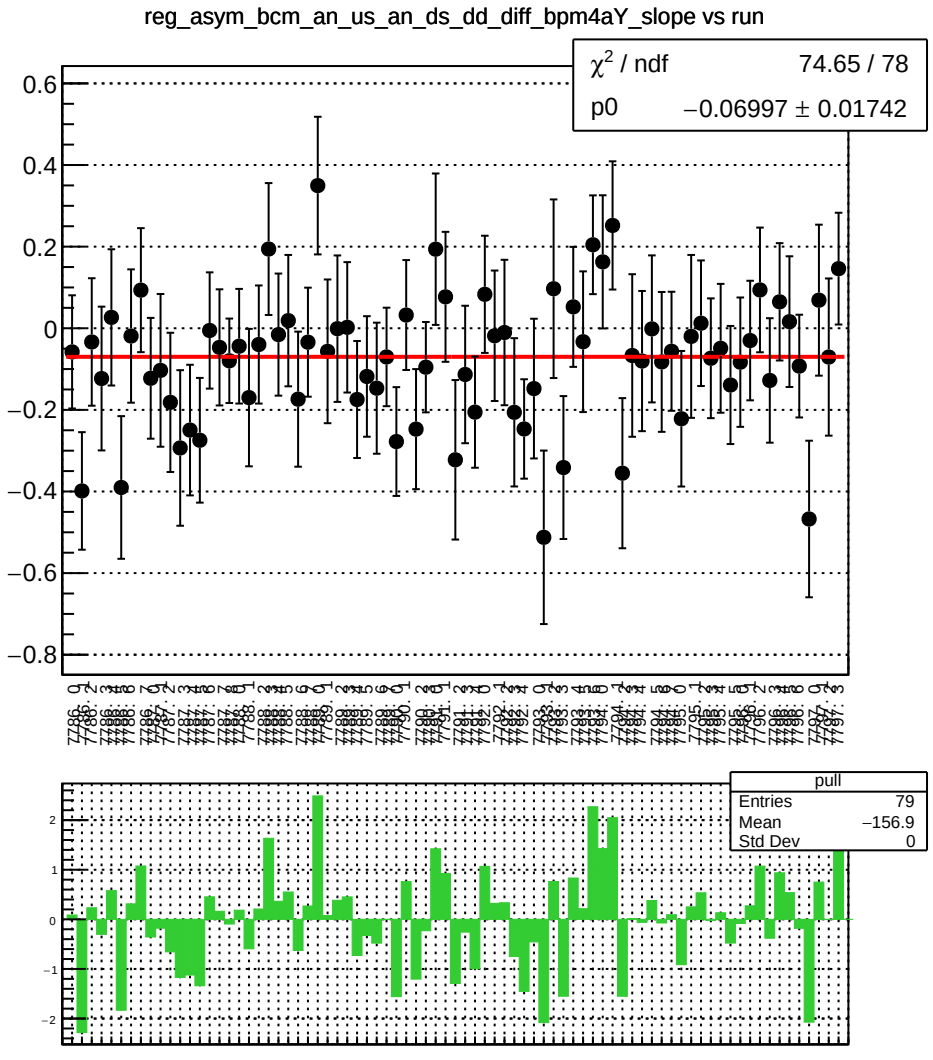

pull1D
Entries 79
Mean −0.08439
Std Dev 1.478

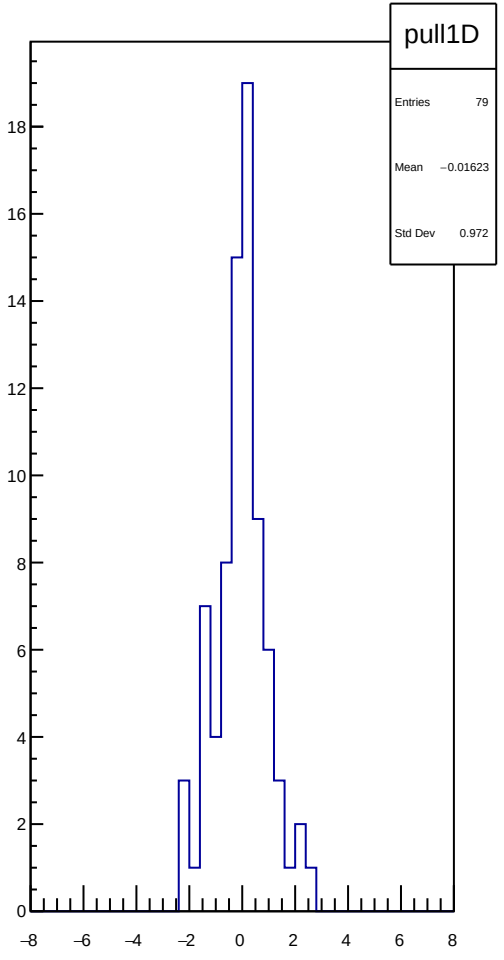

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 893.2 / 78
p0 −77.04 ± 0.4714
pull
Entries 79
Mean 185
Std Dev 0
pull1D
Entries 79
Mean −0.6974
Std Dev 2.56

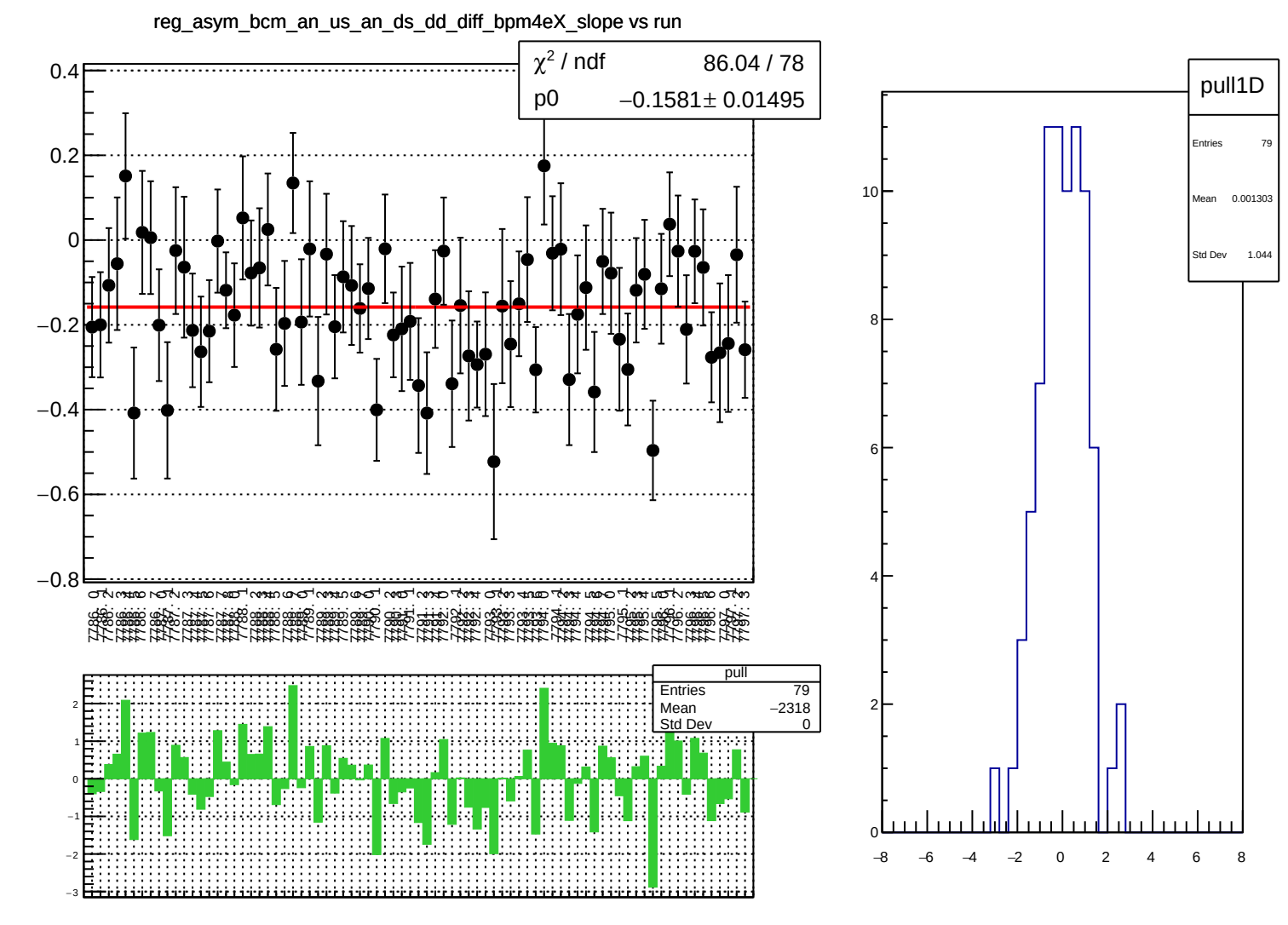

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 153.2 / 78
p0 29.9 ± 0.6223
pull
Entries 79
Mean 261.6
Std Dev 0
pull1D
Entries 79
Mean 0.07237
Std Dev 1.391

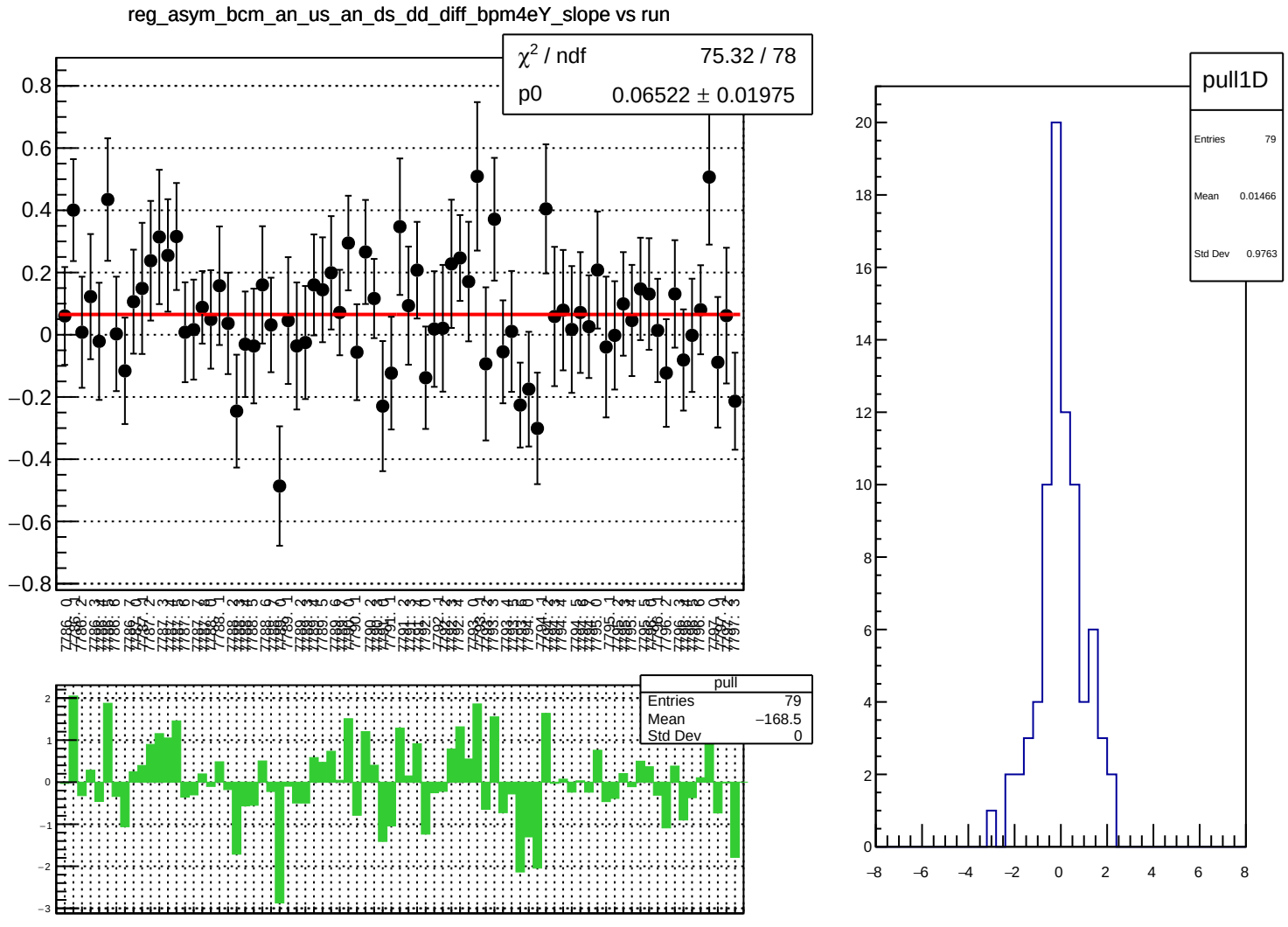

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 545.9 / 78
p0 2.159 ± 0.01933
pull
Entries 79
Mean 197.4
Std Dev 0
pull1D
Entries 79
Mean 0.2252
Std Dev 2.619

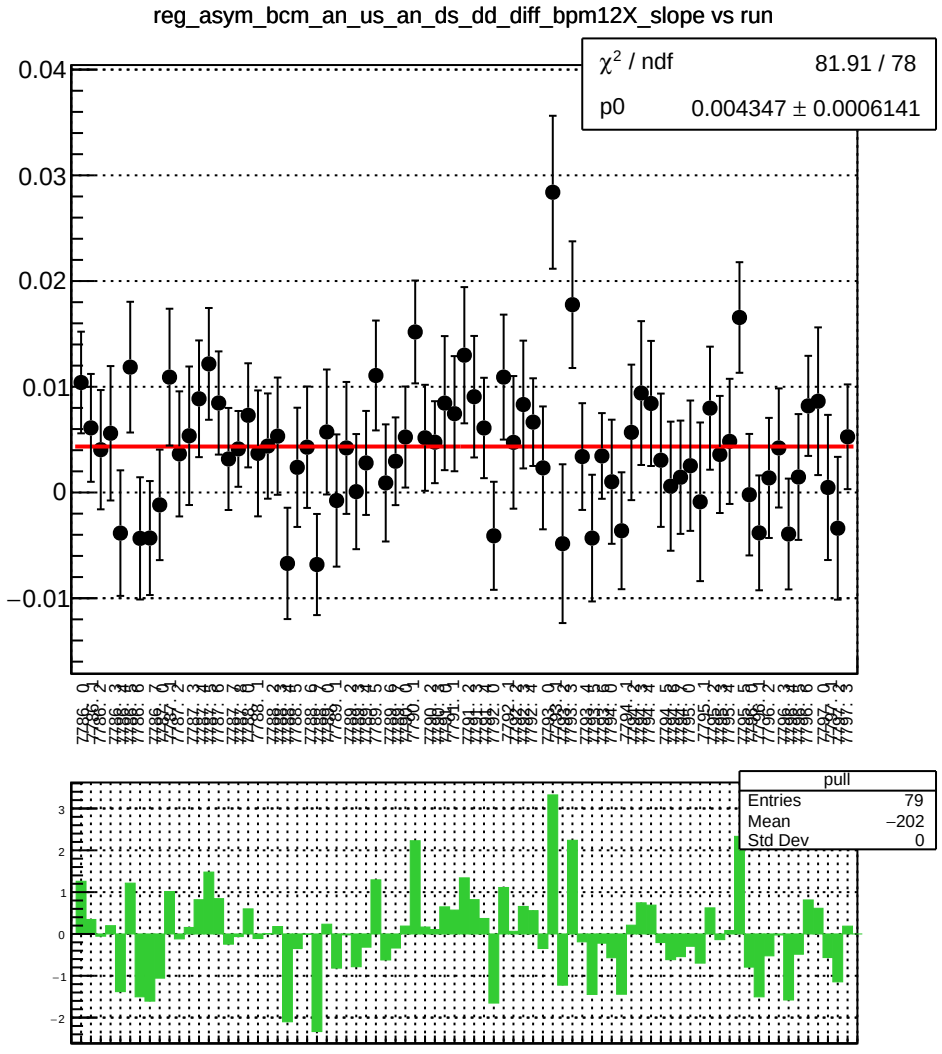

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 87.42 / 78
p0 0.1661± 0.01718
pull
Entries 79
Mean 1.031e+04
Std Dev 0
pull1D
Entries 79
Mean 0.0002988
Std Dev 1.052

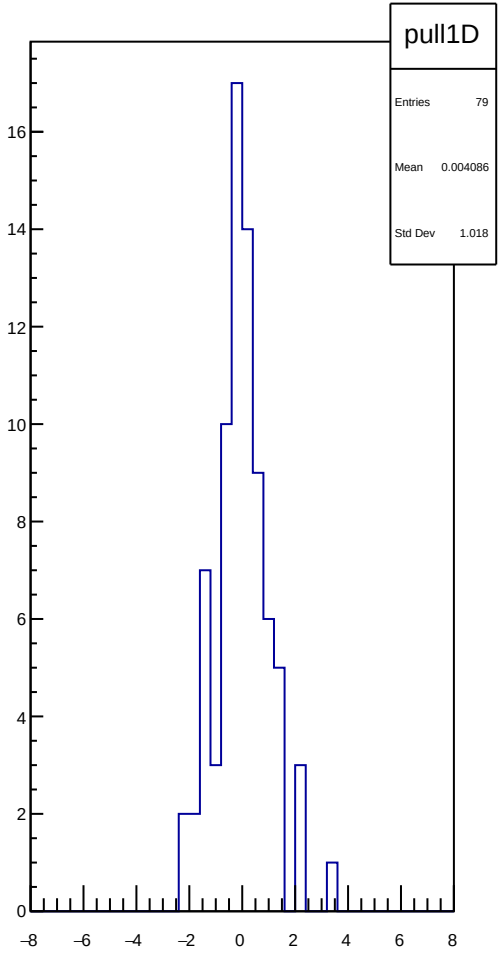

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.65 / 78
p0 −0.06997 ± 0.01742
pull
Entries 79
Mean −156.9
Std Dev 0

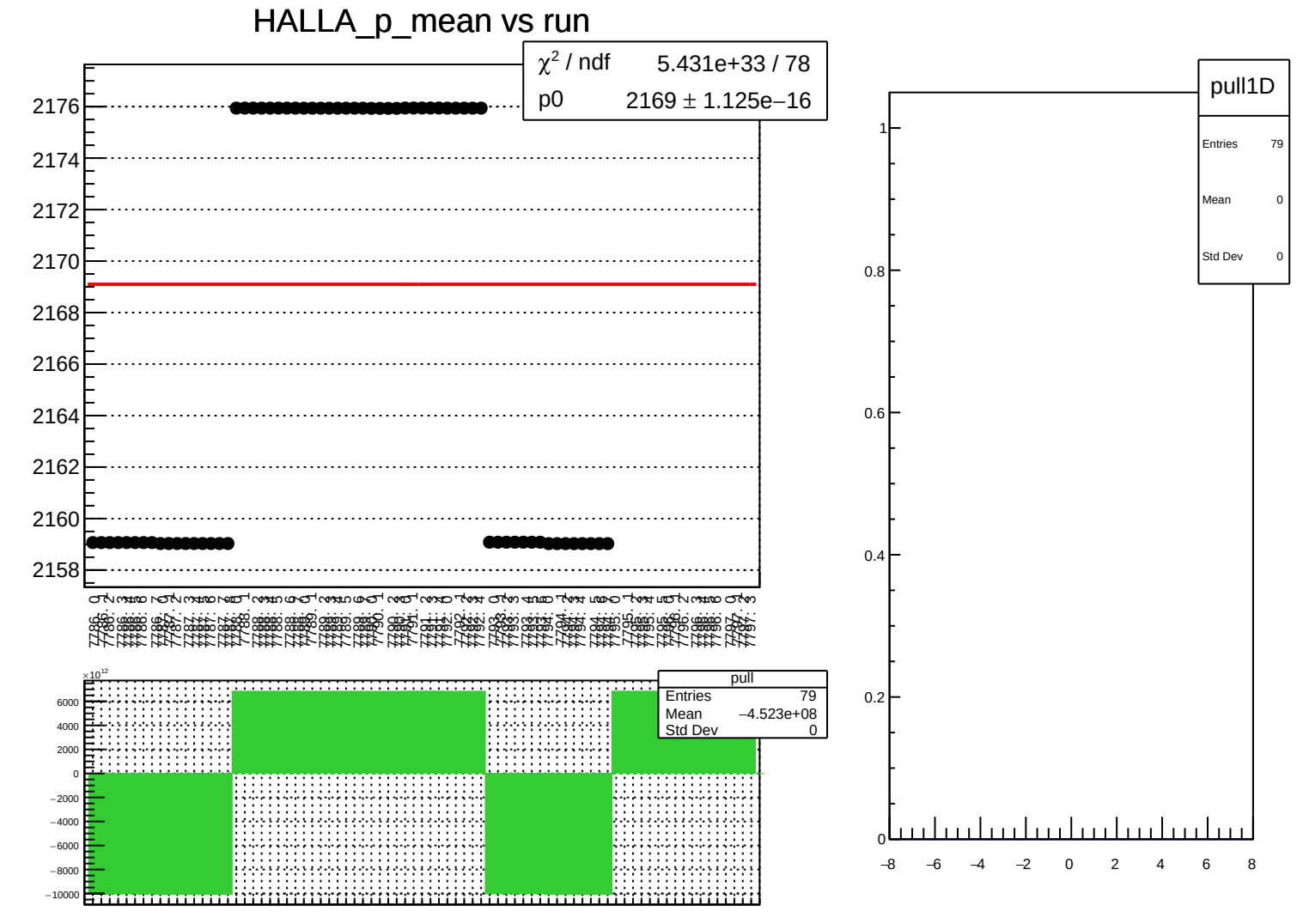

pull1D
Entries 79
Mean −0.01623
Std Dev 0.972

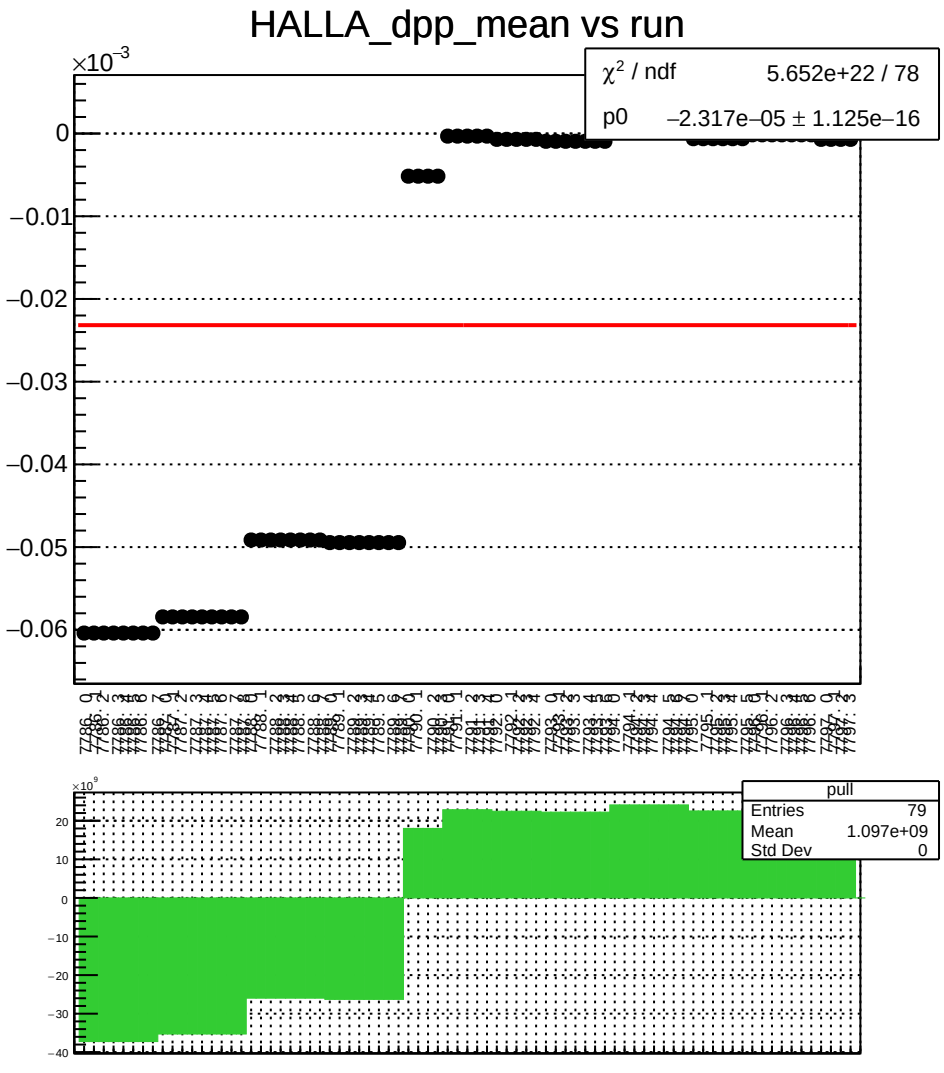

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.04 / 78
p0 −0.1581± 0.01495
pull
Entries 79
Mean −2318
Std Dev 0
pull1D
Entries 79
Mean 0.001303
Std Dev 1.044

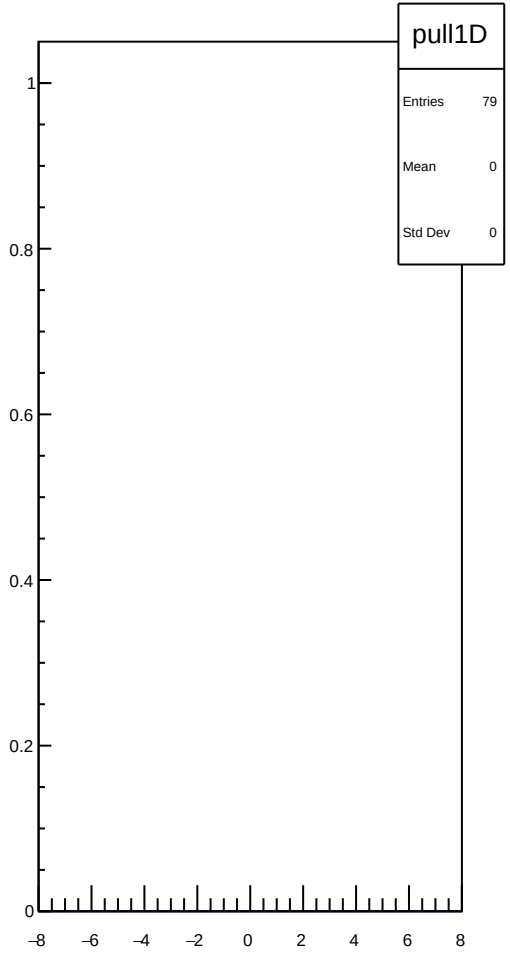

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 75.32 / 78
p0 0.06522 ± 0.01975
pull
Entries 79
Mean −168.5
Std Dev 0
pull1D
Entries 79
Mean 0.01466
Std Dev 0.9763

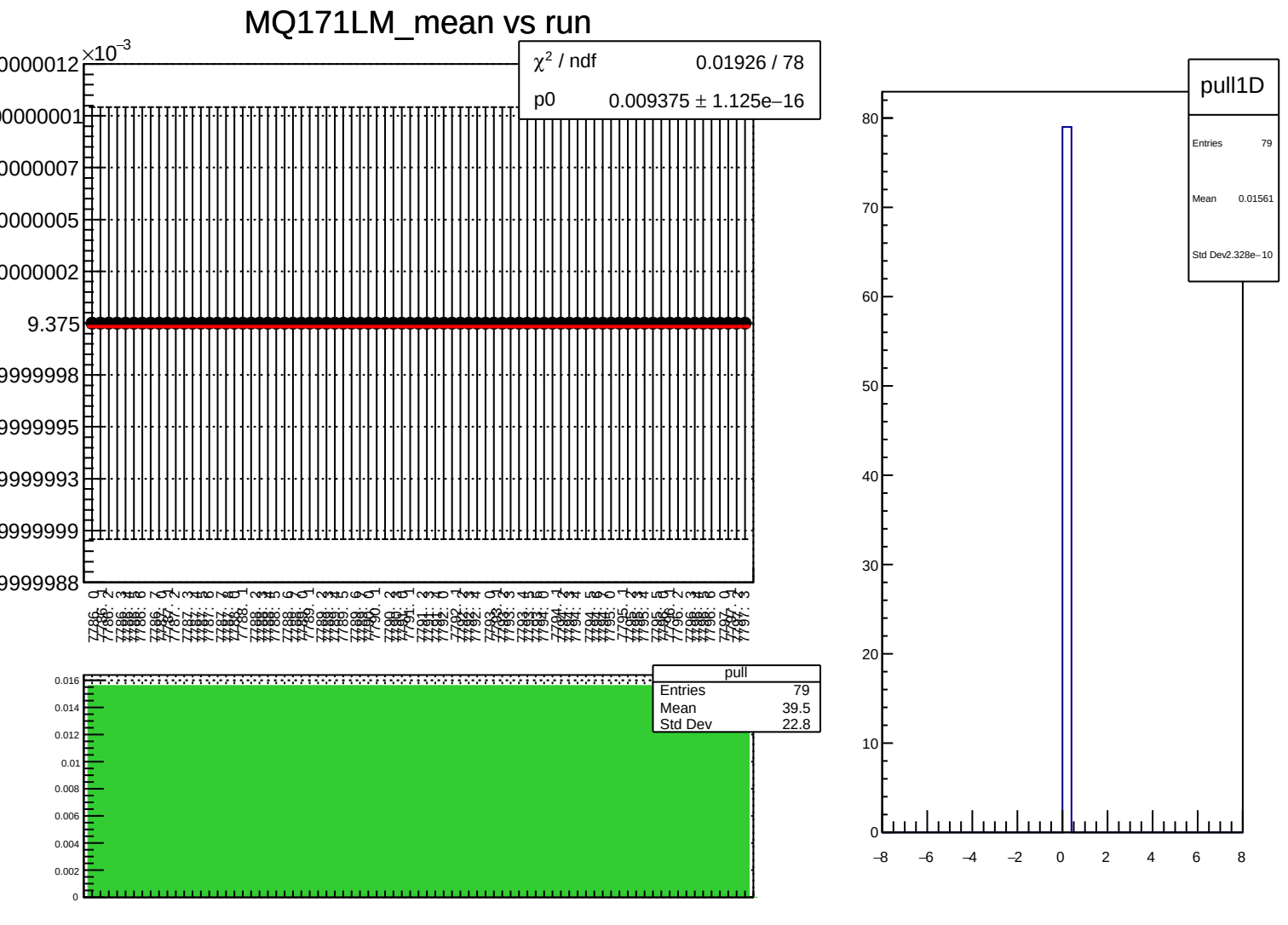

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 81.91 / 78
p0 0.004347 ± 0.0006141
pull
Entries 79
Mean −202
Std Dev 0

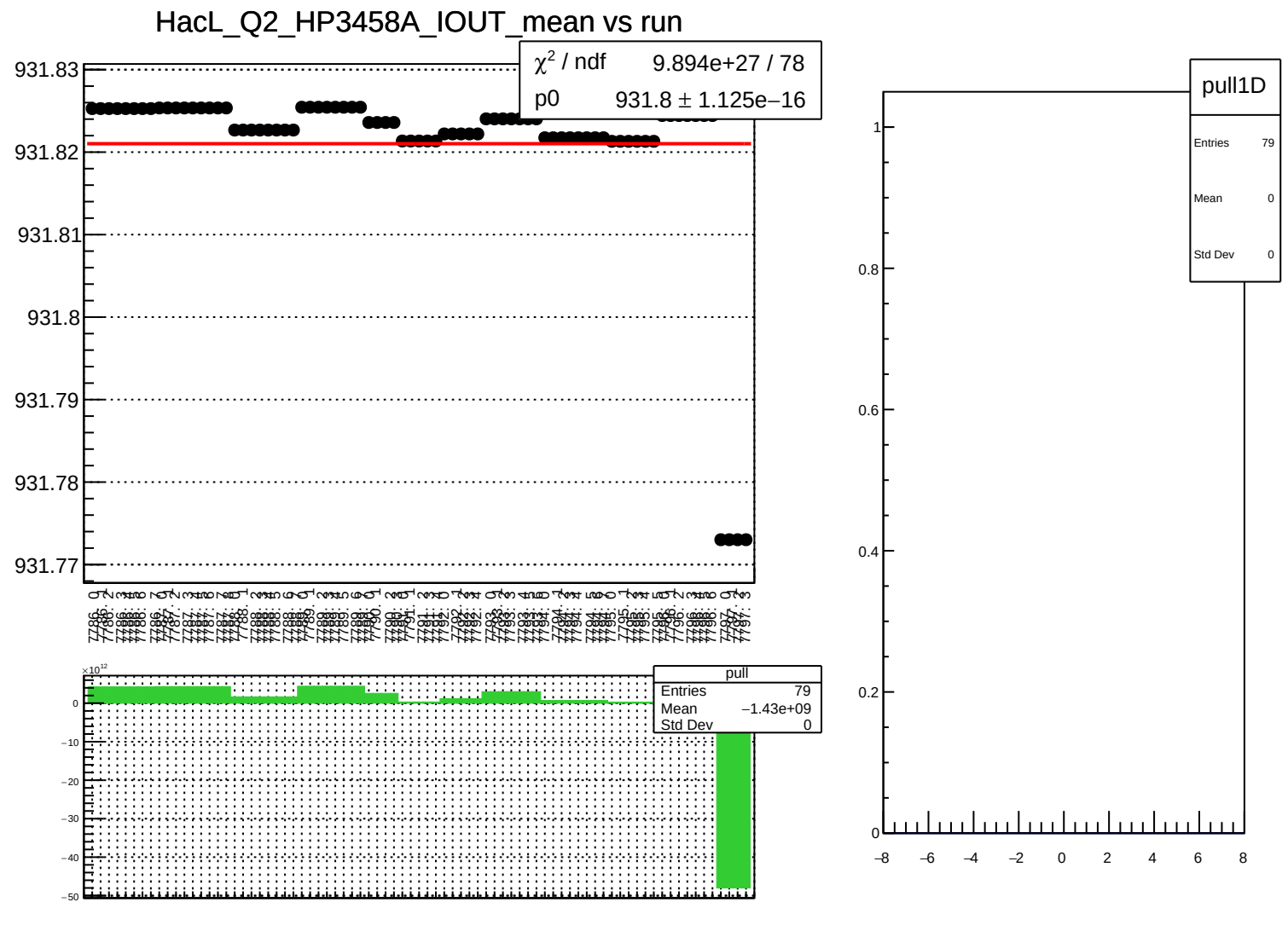

pull1D
Entries 79
Mean 0.004086
Std Dev 1.018

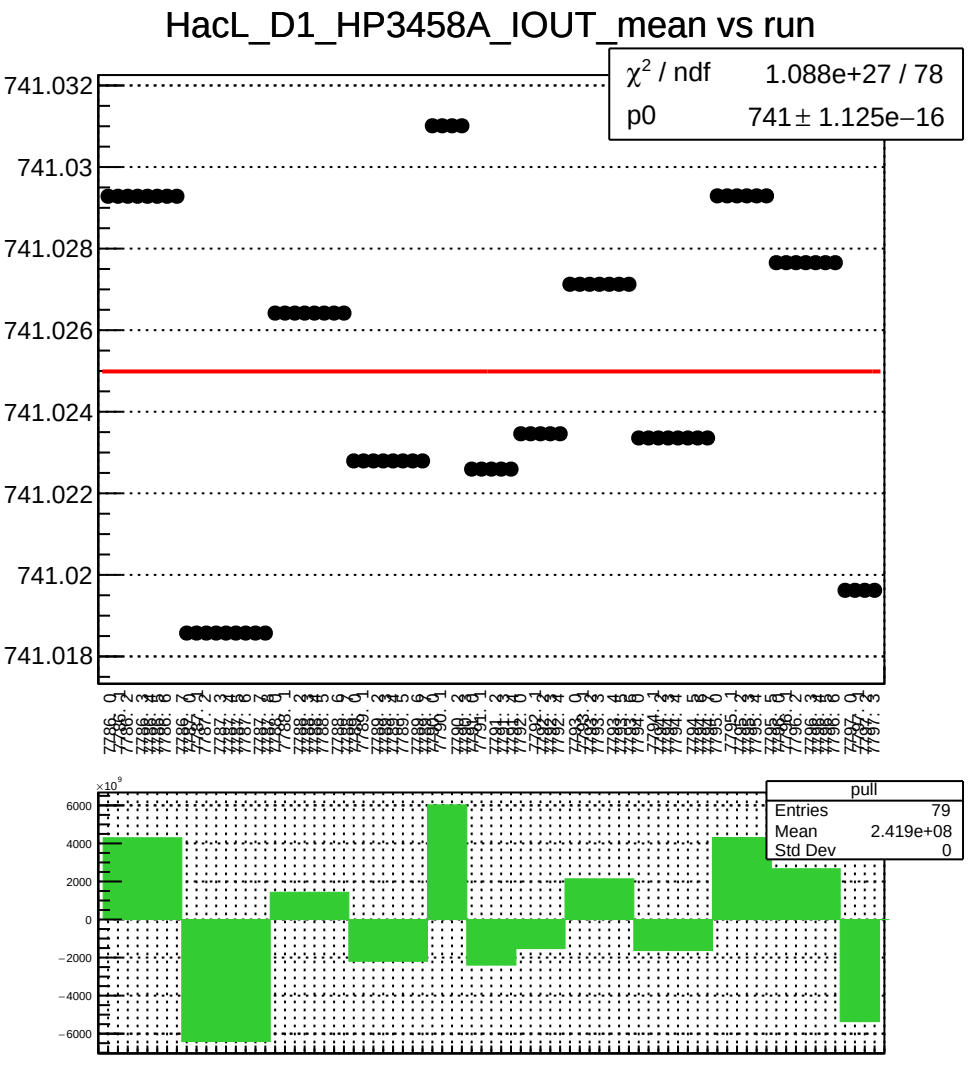

HALLA_p_mean vs run
χ² / ndf 5.431e+33 / 78
p0 2169 ± 1.125e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 79
Mean −4.523e+08
Std Dev 0
×10¹²
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

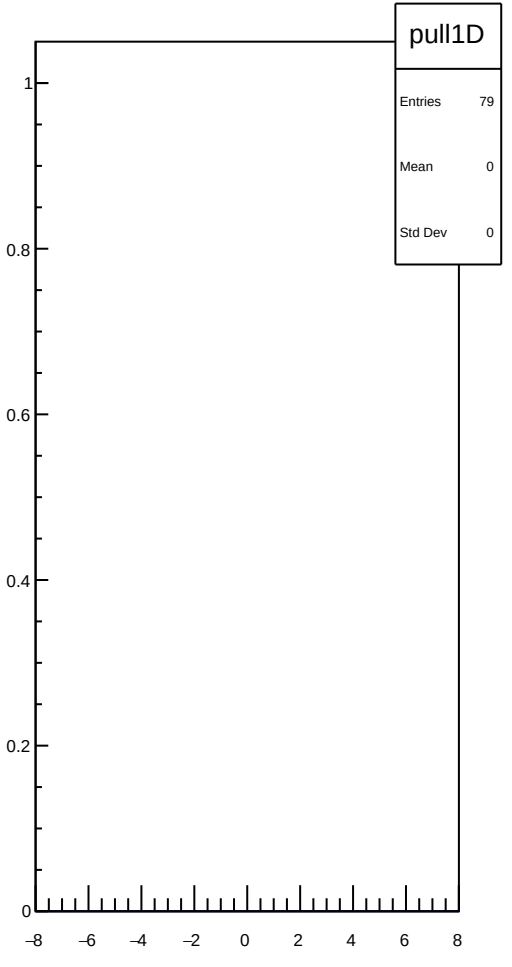

HALLA_dpp_mean vs run
χ² / ndf 5.652e+22 / 78
p0 −2.317e−05 ± 1.125e−16
pull
Entries 79
Mean 1.097e+09
Std Dev 0

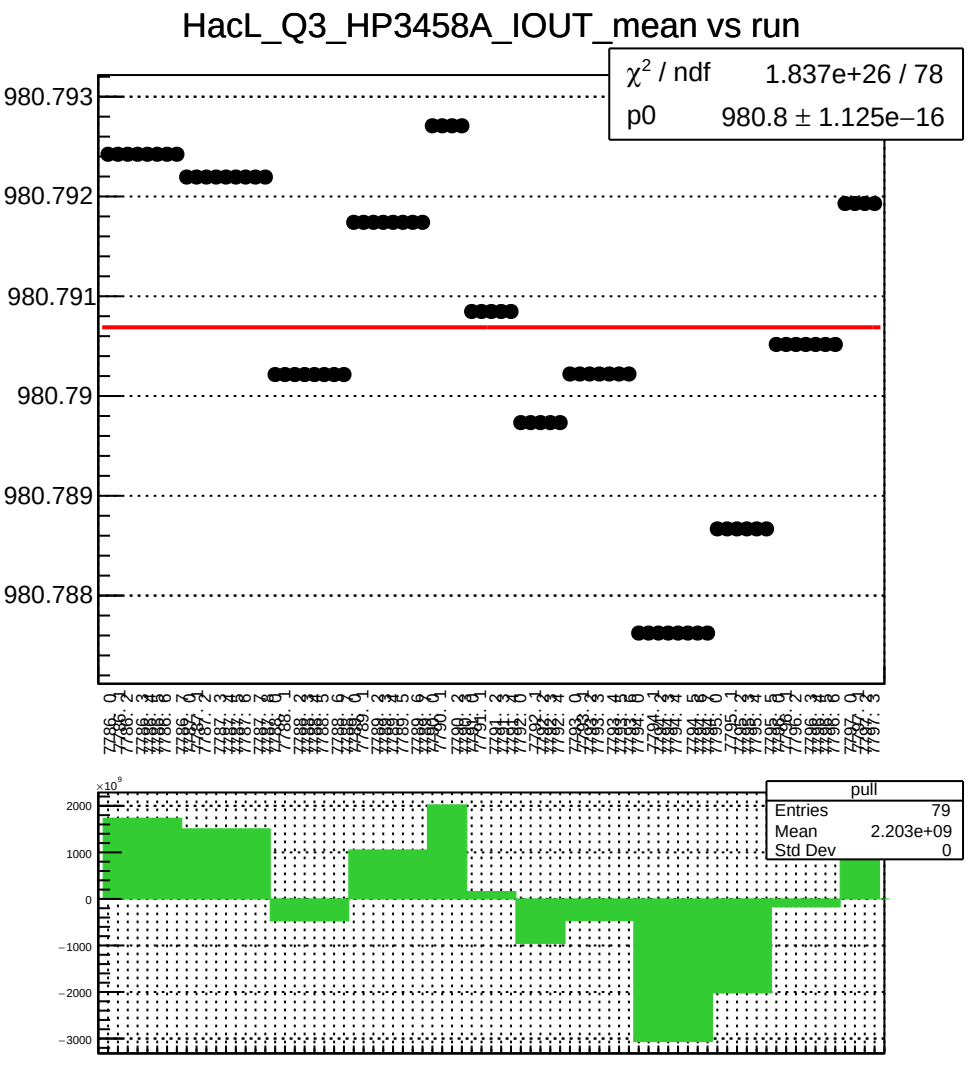

pull1D
Entries 79
Mean 0
Std Dev 0

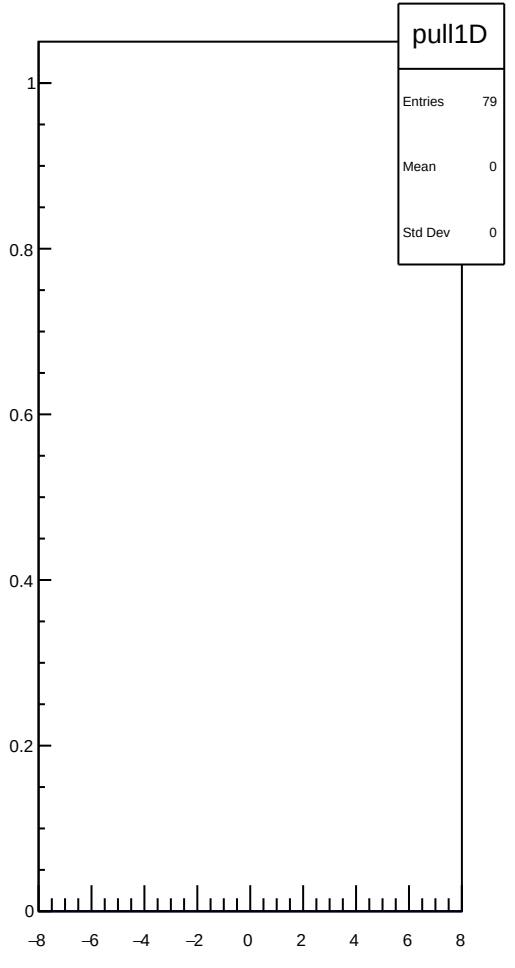

MQ171LM_mean vs run
χ² / ndf 0.01926 / 78
p0 0.009375 ± 1.125e−16
×10⁻³
9.375
pull
Entries 79
Mean 39.5
Std Dev 22.8
pull1D
Entries 79
Mean 0.01561
Std Dev 2.328e−10


HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 9.894e+27 / 78
p0 931.8 ± 1.125e−16
931.83
931.82
931.81
931.8
931.79
931.78
931.77
pull
Entries 79
Mean −1.43e+09
Std Dev 0
×10¹²
0
−10
−20
−30
−40
−50
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

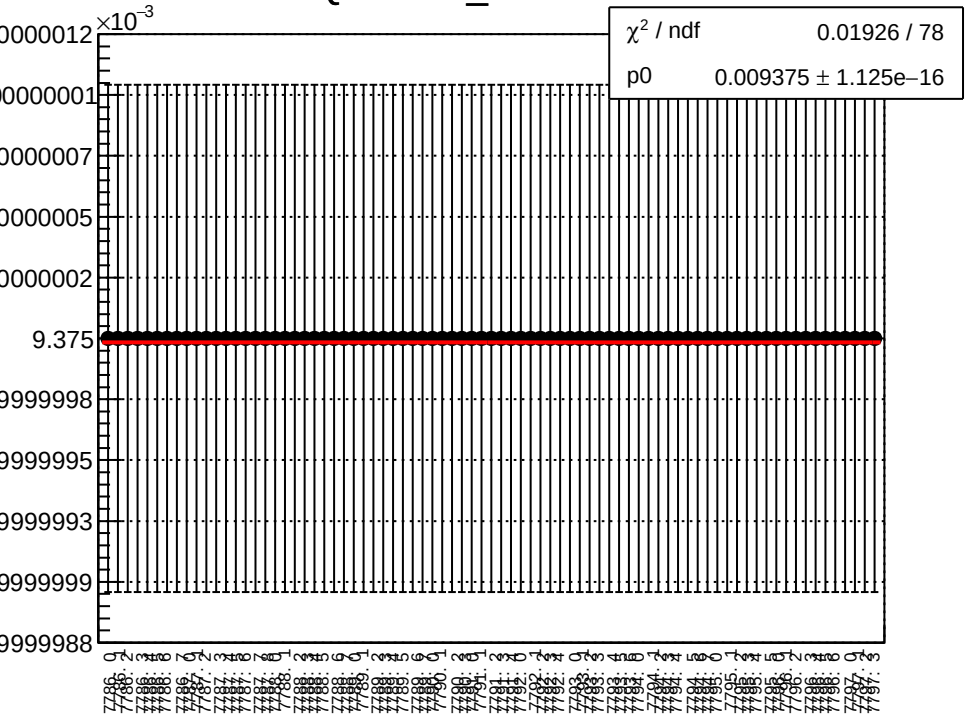

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.088e+27 / 78
p0 741 ± 1.125e−16
741.032
741.03
741.028
741.026
741.024
741.022
741.02
741.018
pull
Entries 79
Mean 2.419e+08
Std Dev 0
×10⁹
6000
4000
2000
0
−2000
−4000
−6000

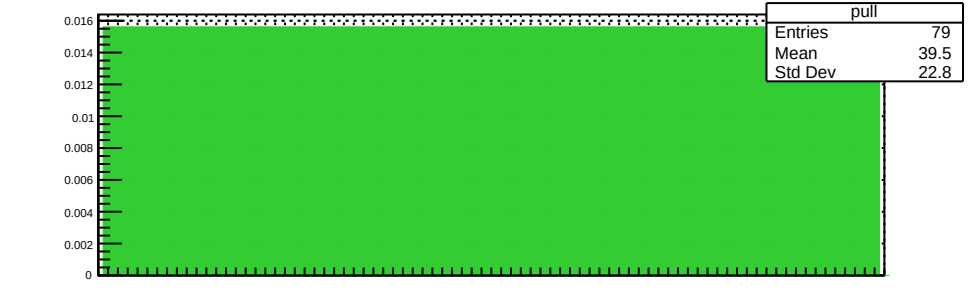

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

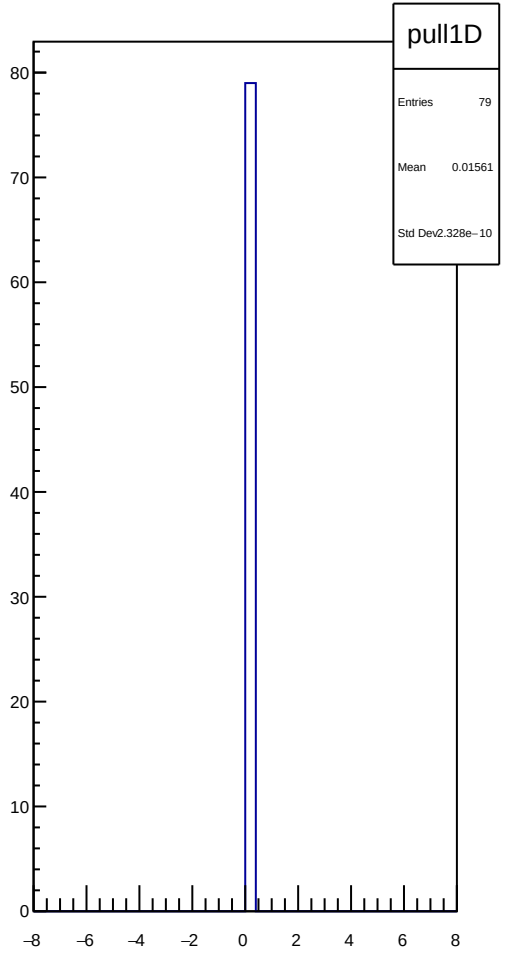

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.837e+26 / 78
p0 980.8 ± 1.125e−16
980.793
980.792
980.791
980.79
980.789
980.788
pull
Entries 79
Mean 2.203e+09
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000
−3000

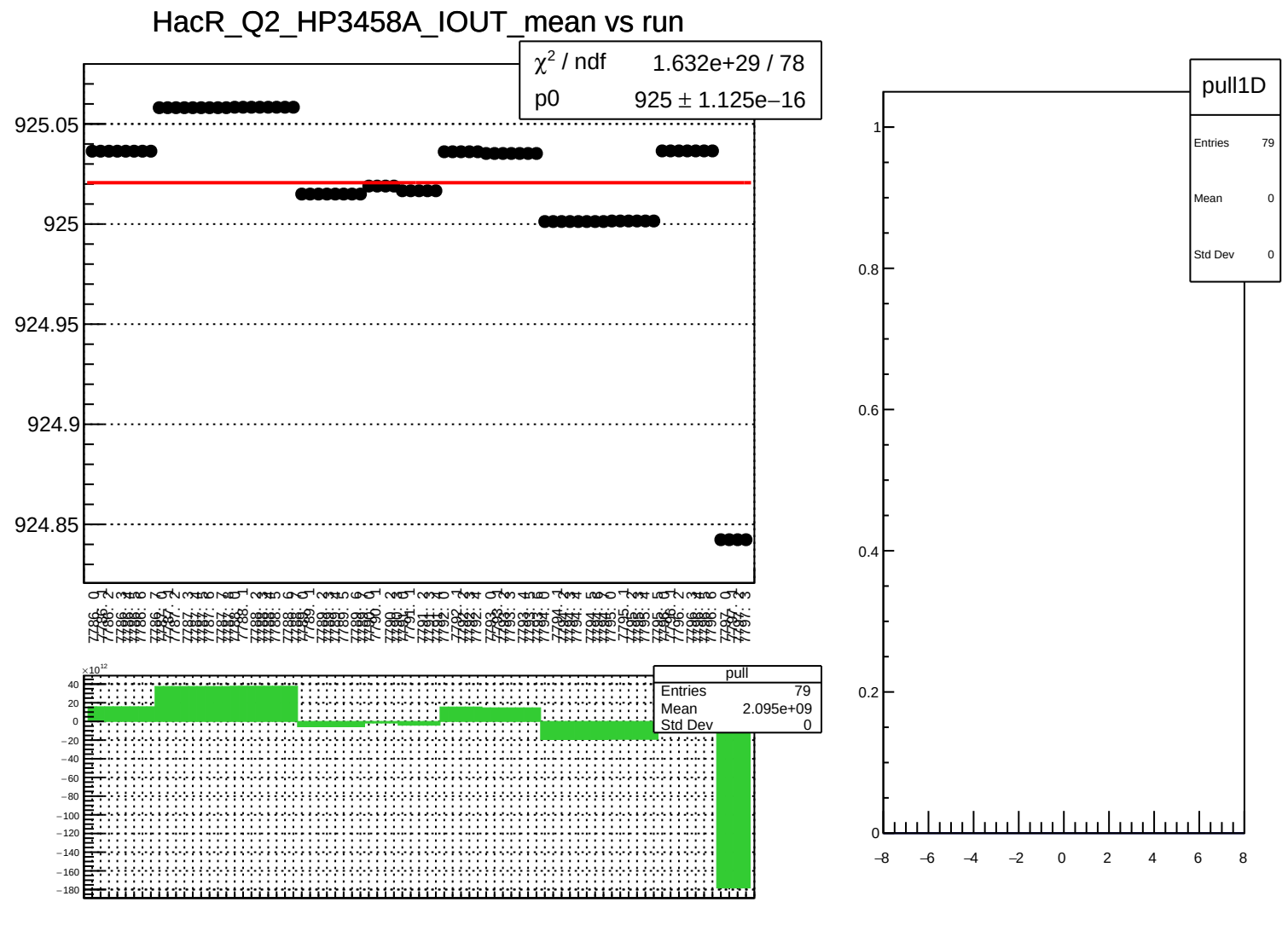

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

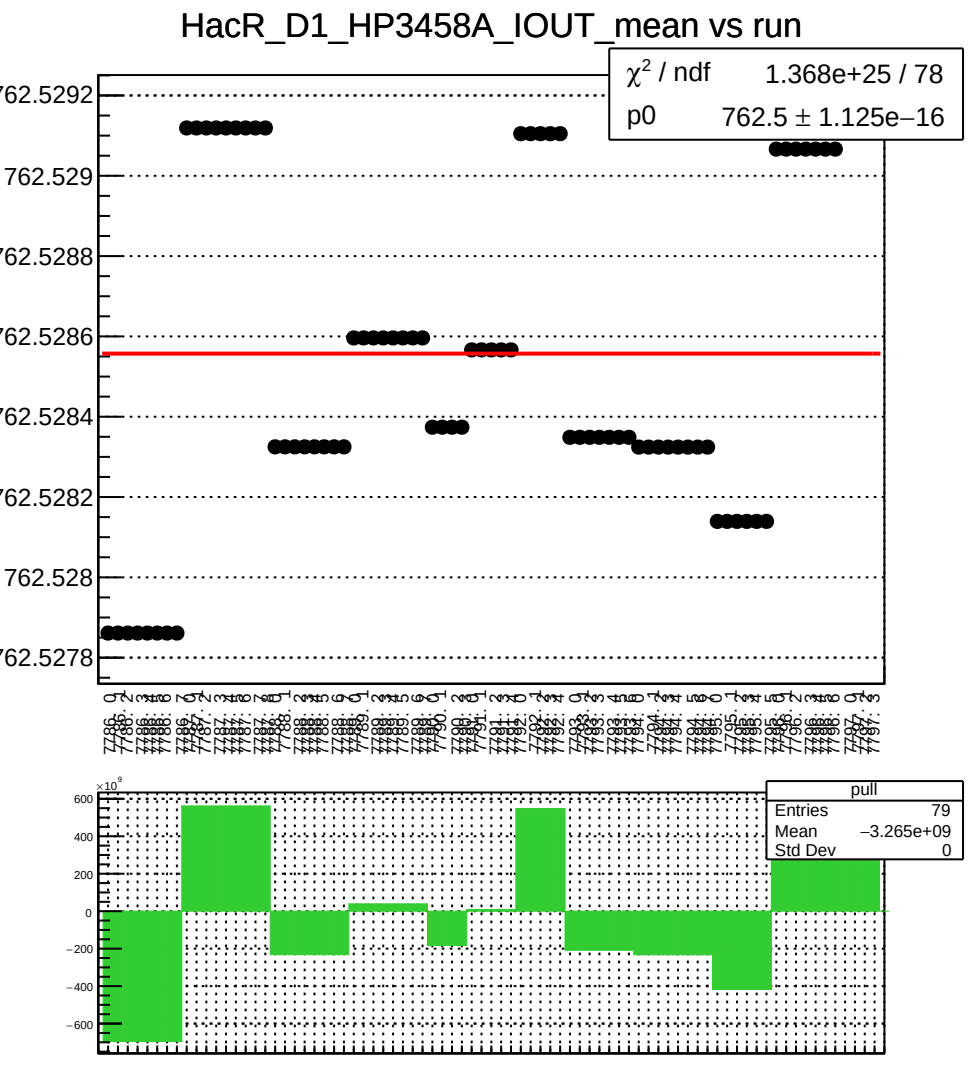
MQ172RM_mean vs run

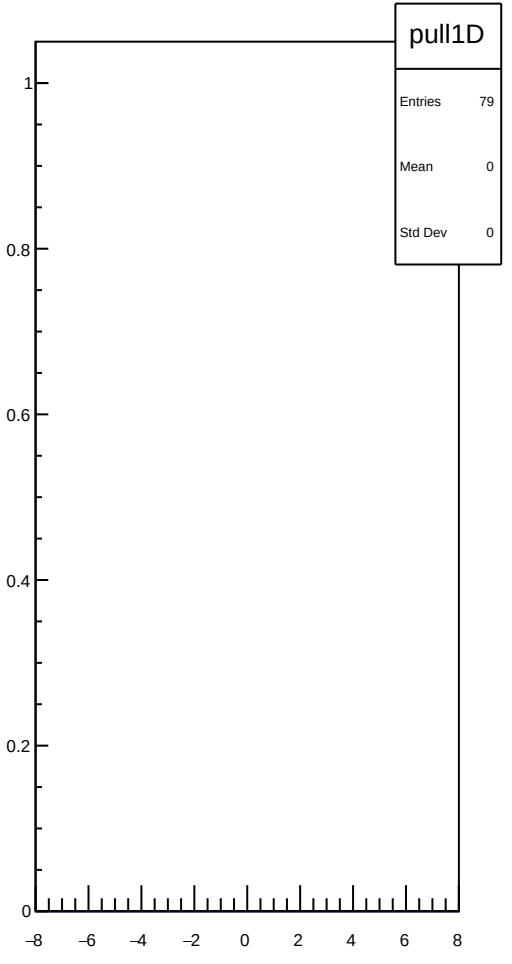


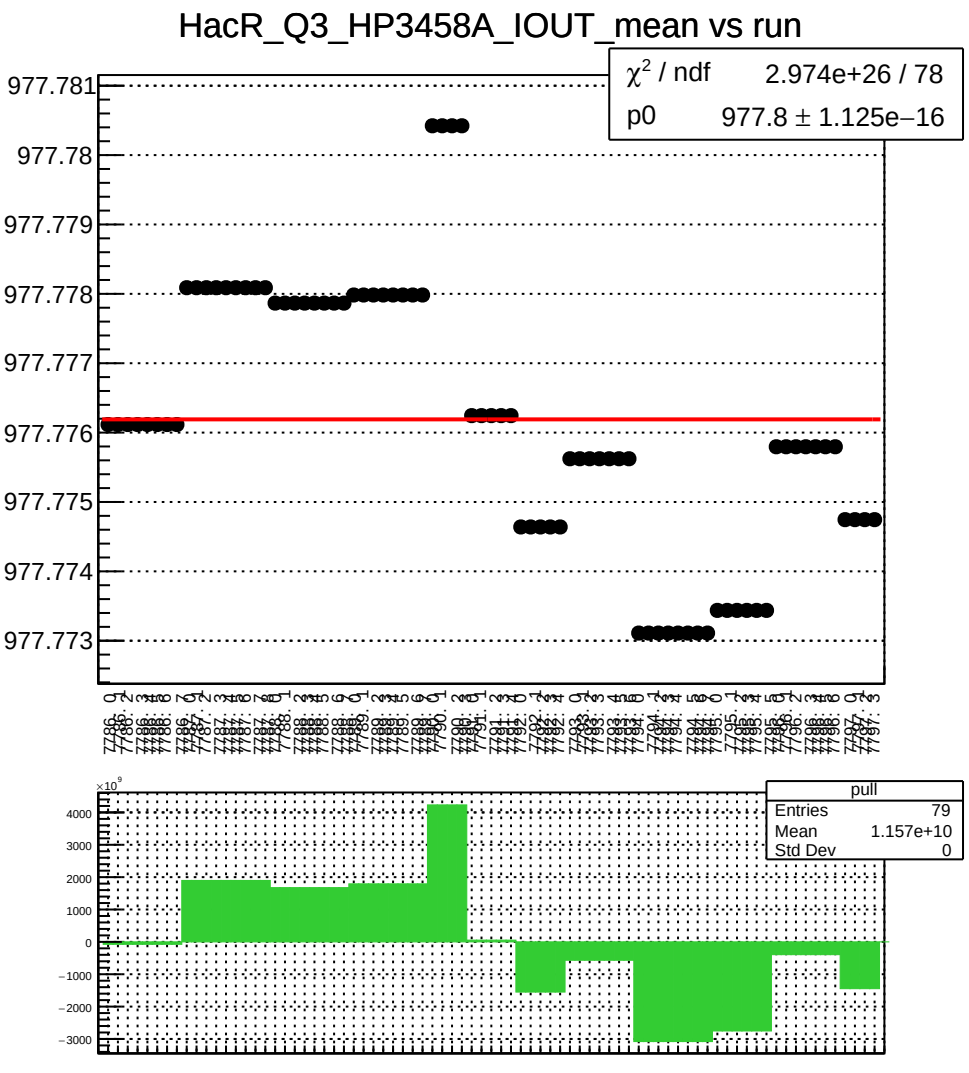


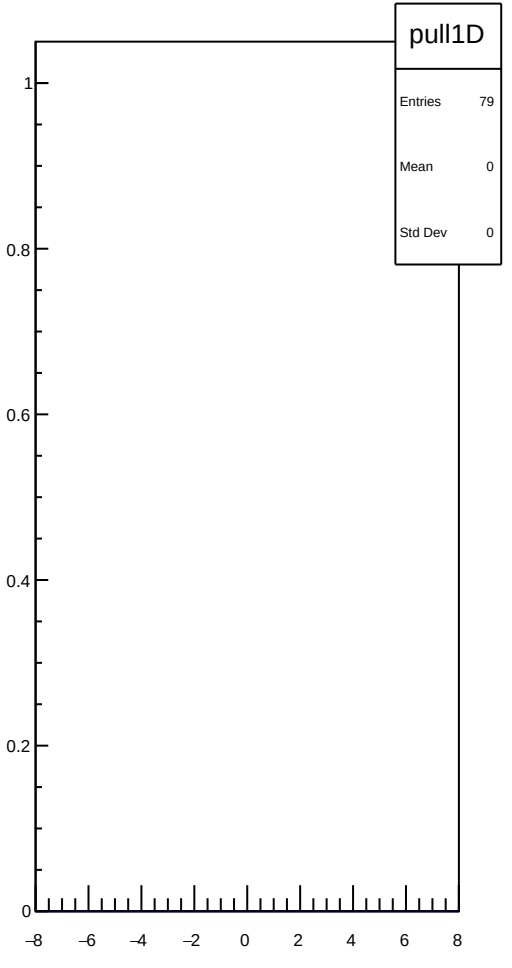


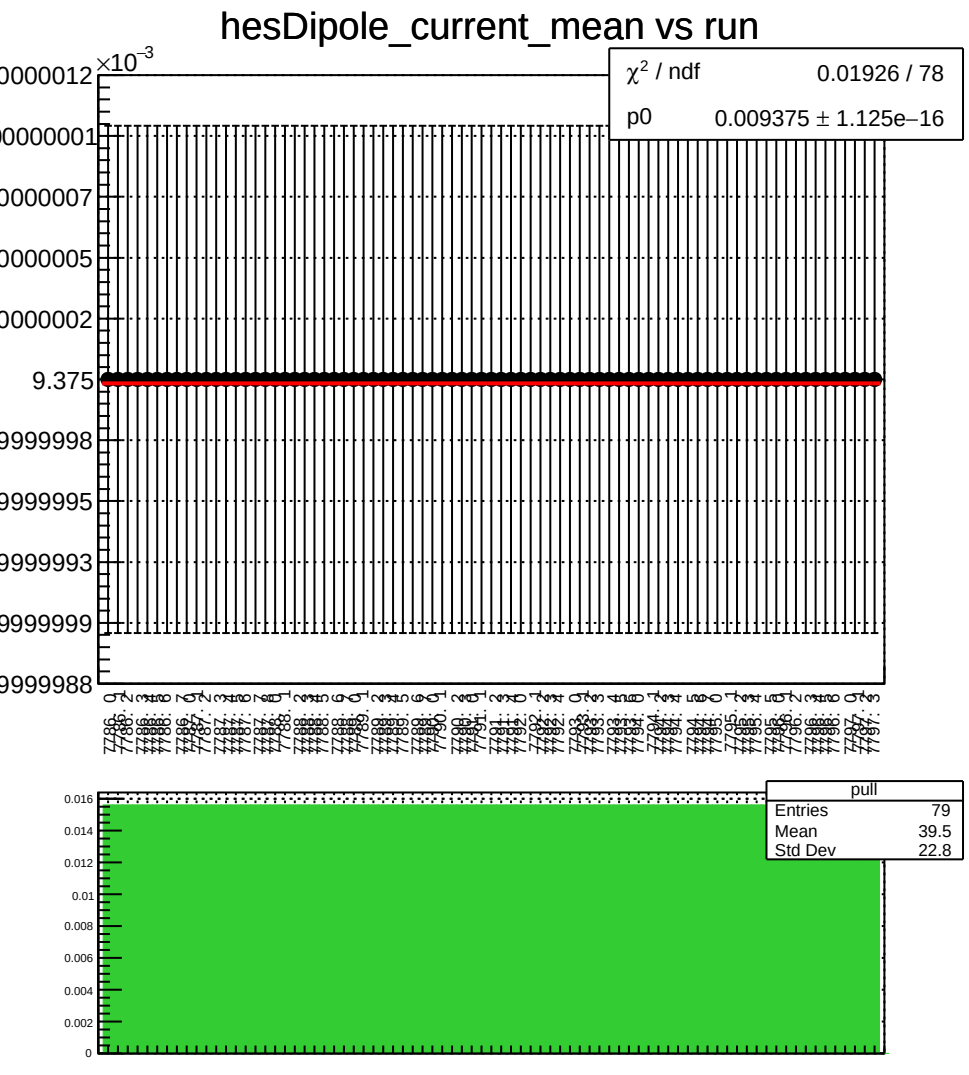

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.632e+29 / 78
p0 925 ± 1.125e−16
925.05
925
924.95
924.9
924.85
pull
Entries 79
Mean 2.095e+09
Std Dev 0
pull1D
Entries 79
Mean 0
Std Dev 0

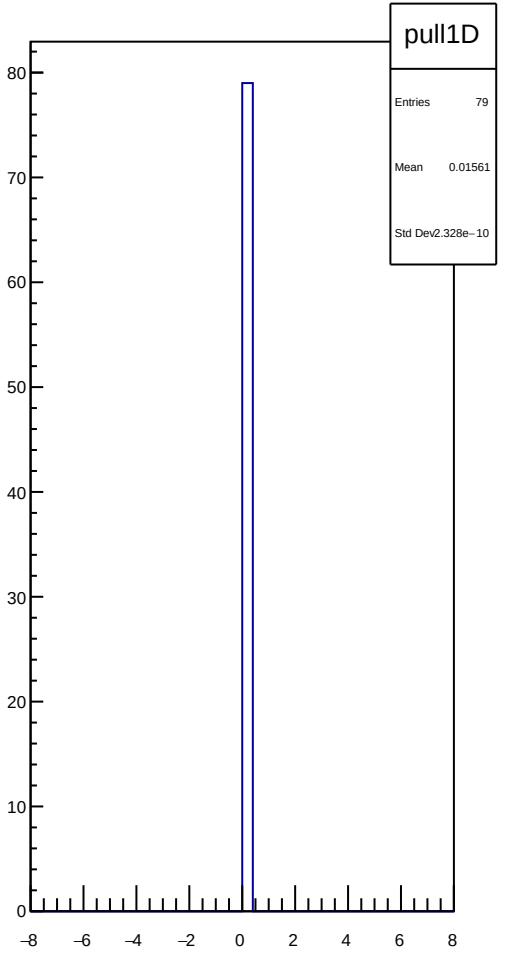

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.368e+25 / 78
p0 762.5 ± 1.125e−16
762.5292
762.529
762.5288
762.5286
762.5284
762.5282
762.528
762.5278
pull
Entries 79
Mean −3.265e+09
Std Dev 0
×10⁹
600
400
200
0
−200
−400
−600

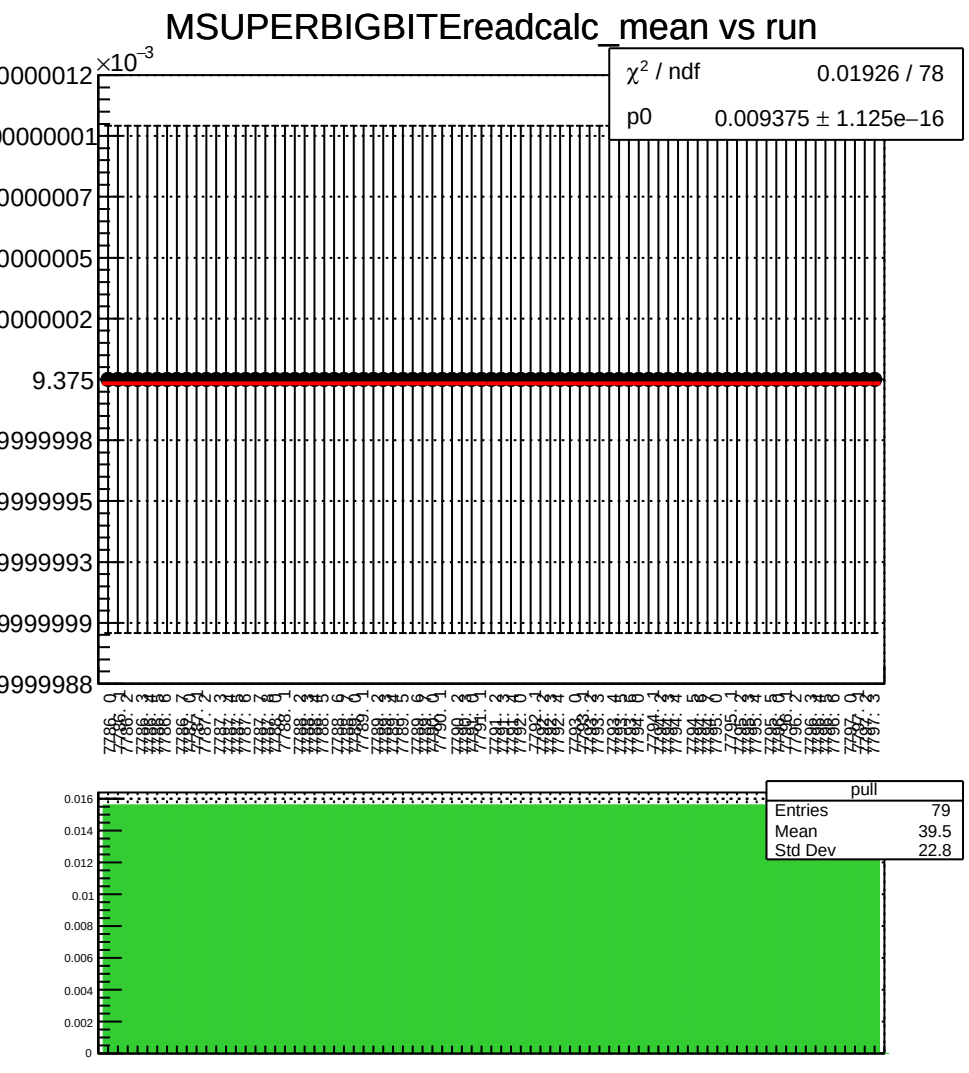

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

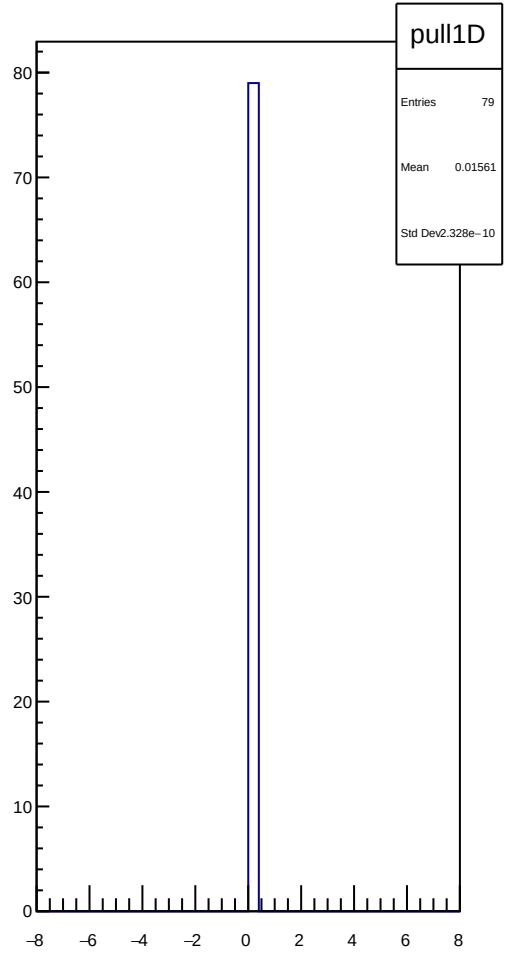

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.974e+26 / 78
p0 977.8 ± 1.125e−16
977.781
977.78
977.779
977.778
977.777
977.776
977.775
977.774
977.773
pull
Entries 79
Mean 1.157e+10
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000

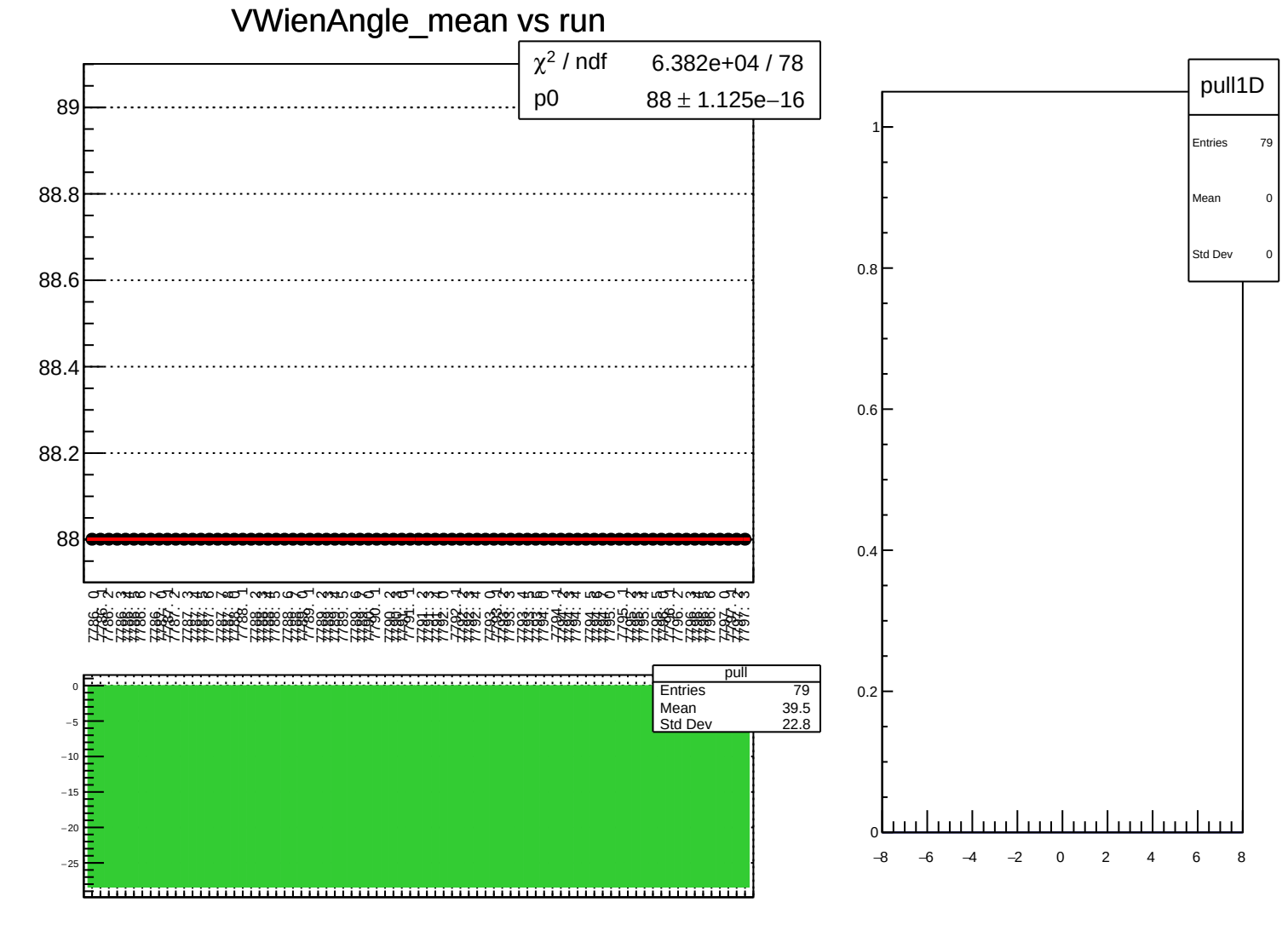

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

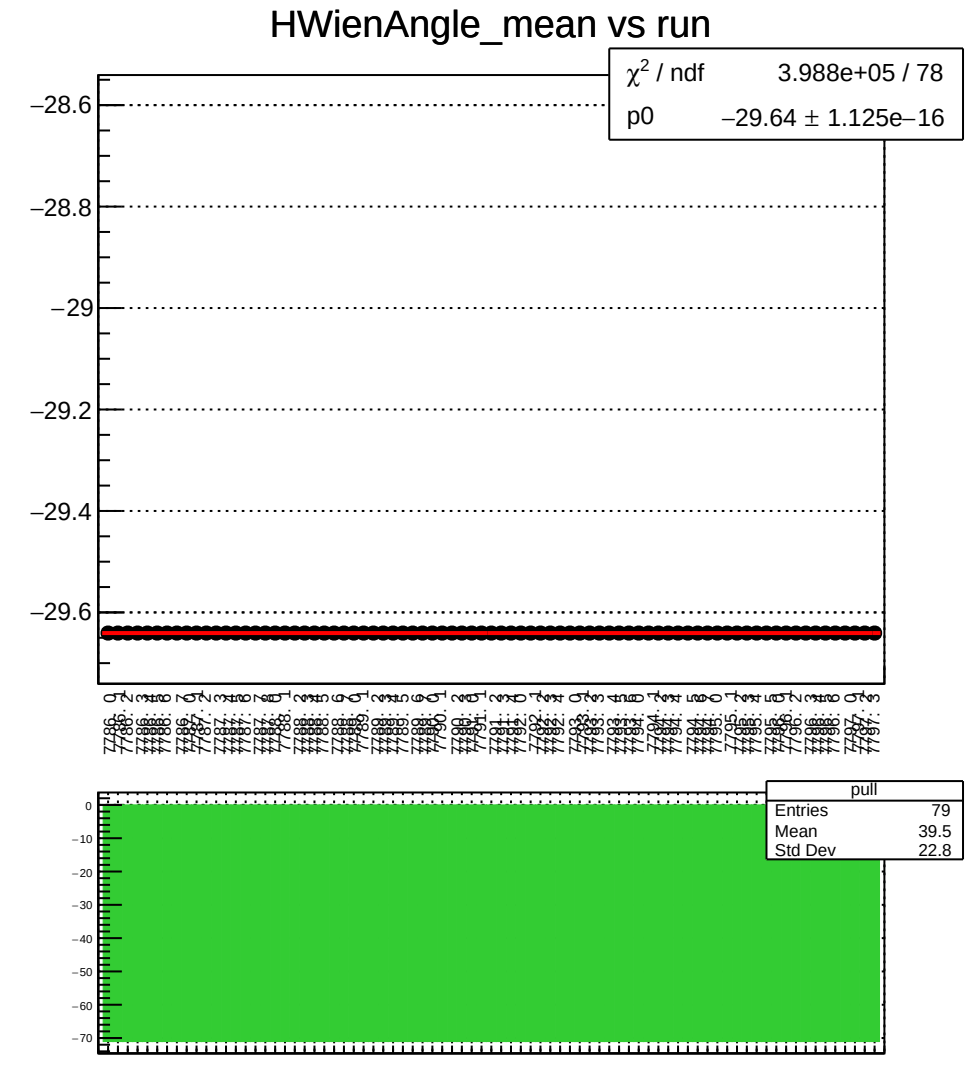

hesDipole_current_mean vs run
χ² / ndf 0.01926 / 78
p0 0.009375 ± 1.125e−16
×10⁻³
pull
Entries 79
Mean 39.5
Std Dev 22.8

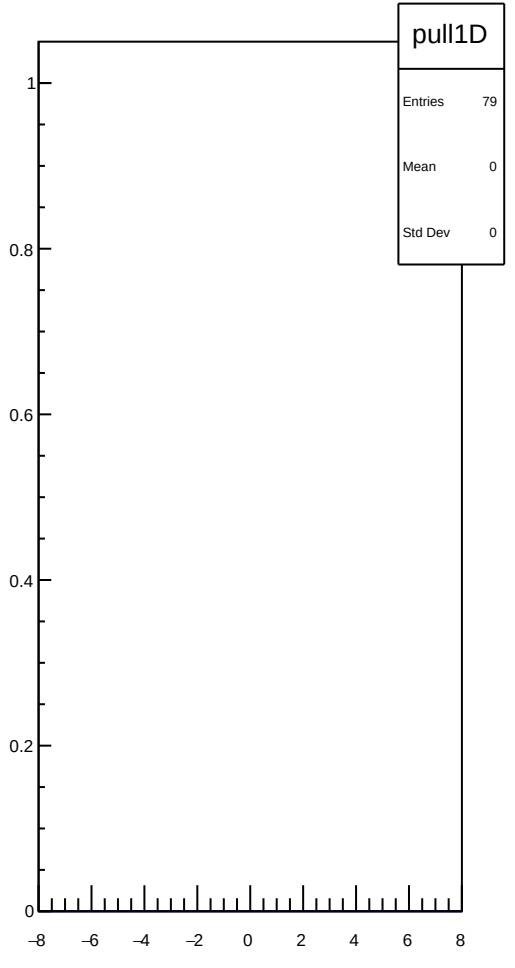

pull1D
Entries 79
Mean 0.01561
Std Dev 2.328e−10

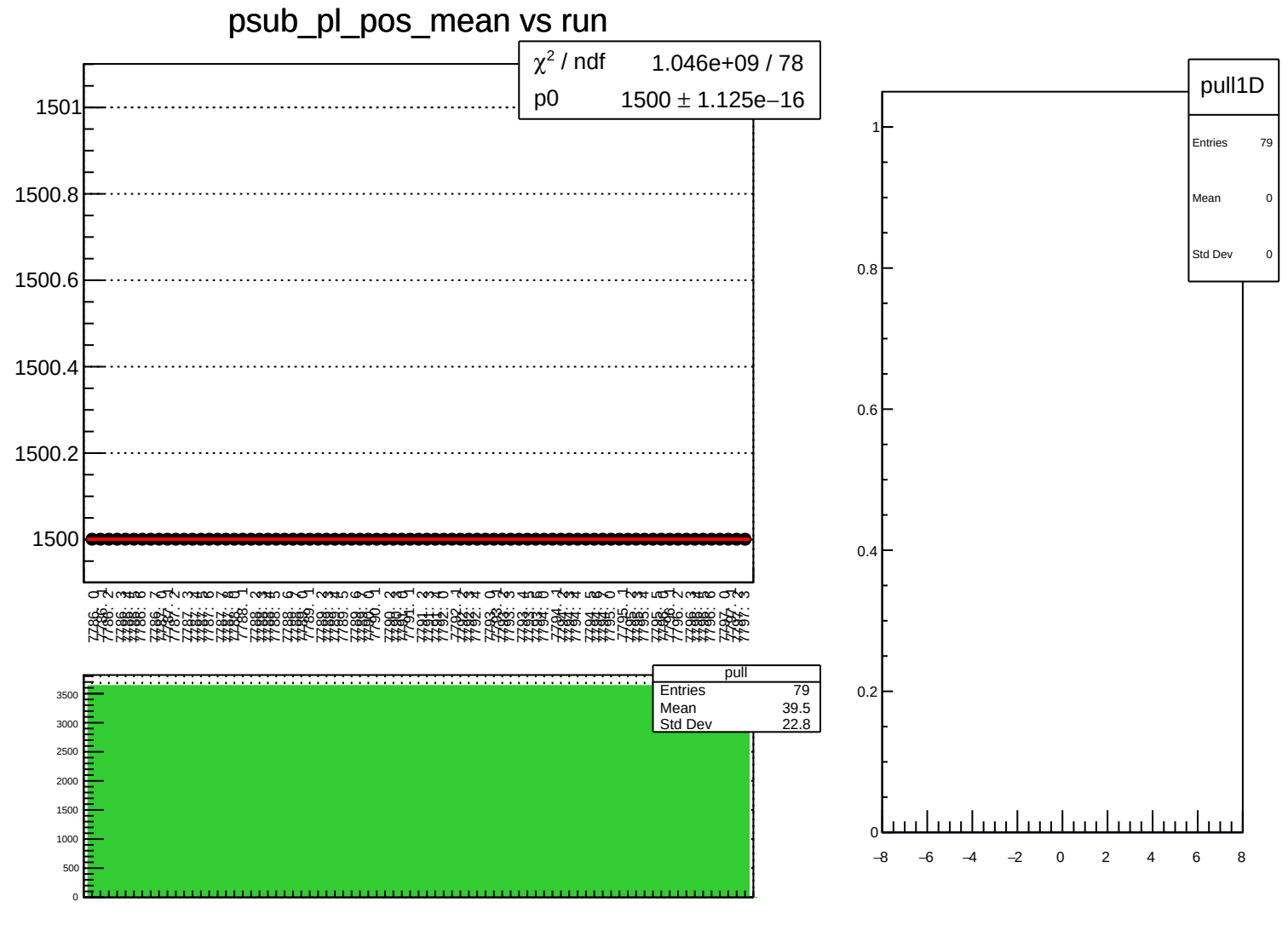

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.01926 / 78
p0 0.009375 ± 1.125e−16
×10⁻³
pull
Entries 79
Mean 39.5
Std Dev 22.8

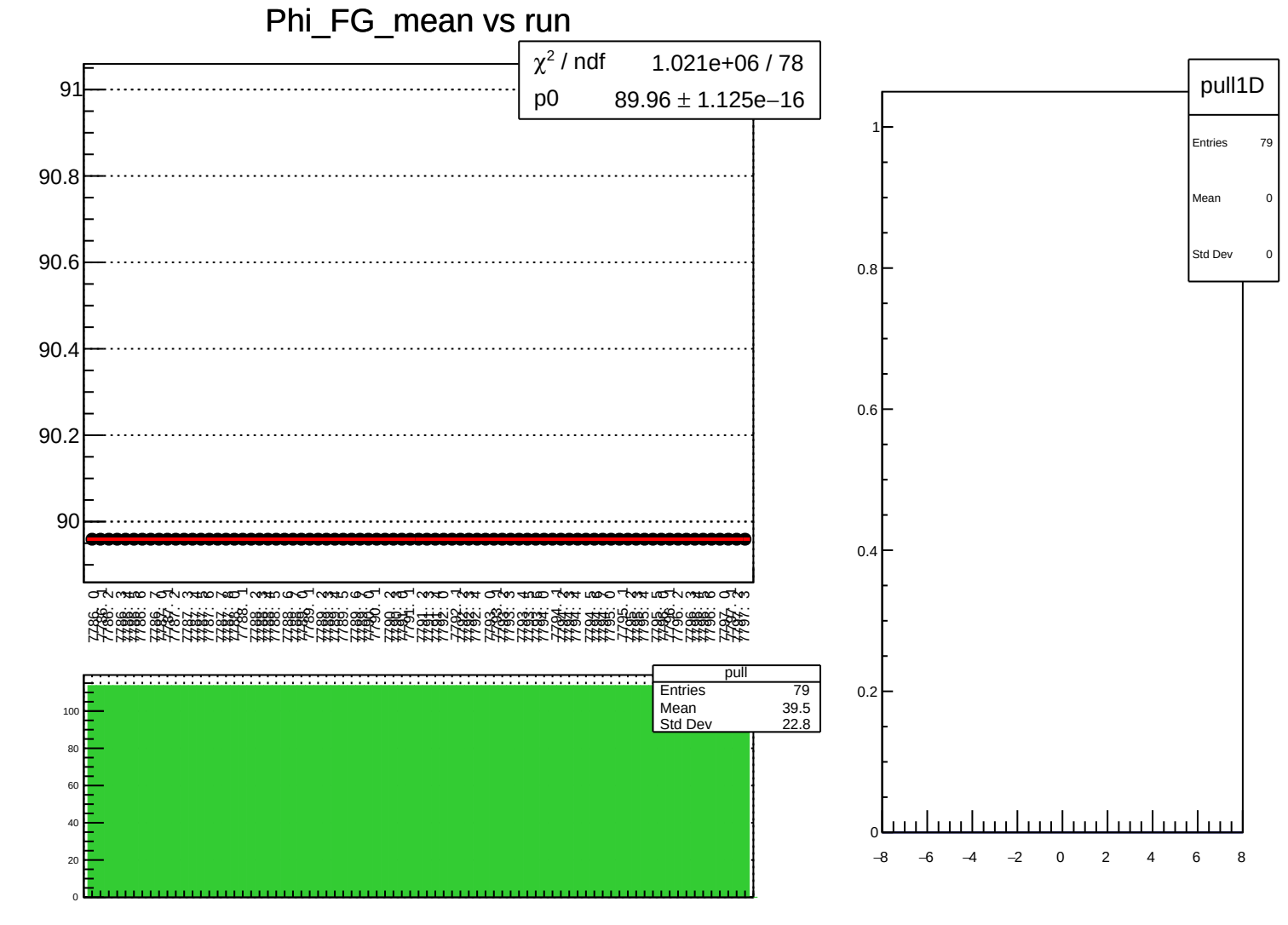

pull1D
Entries 79
Mean 0.01561
Std Dev 2.328e−10

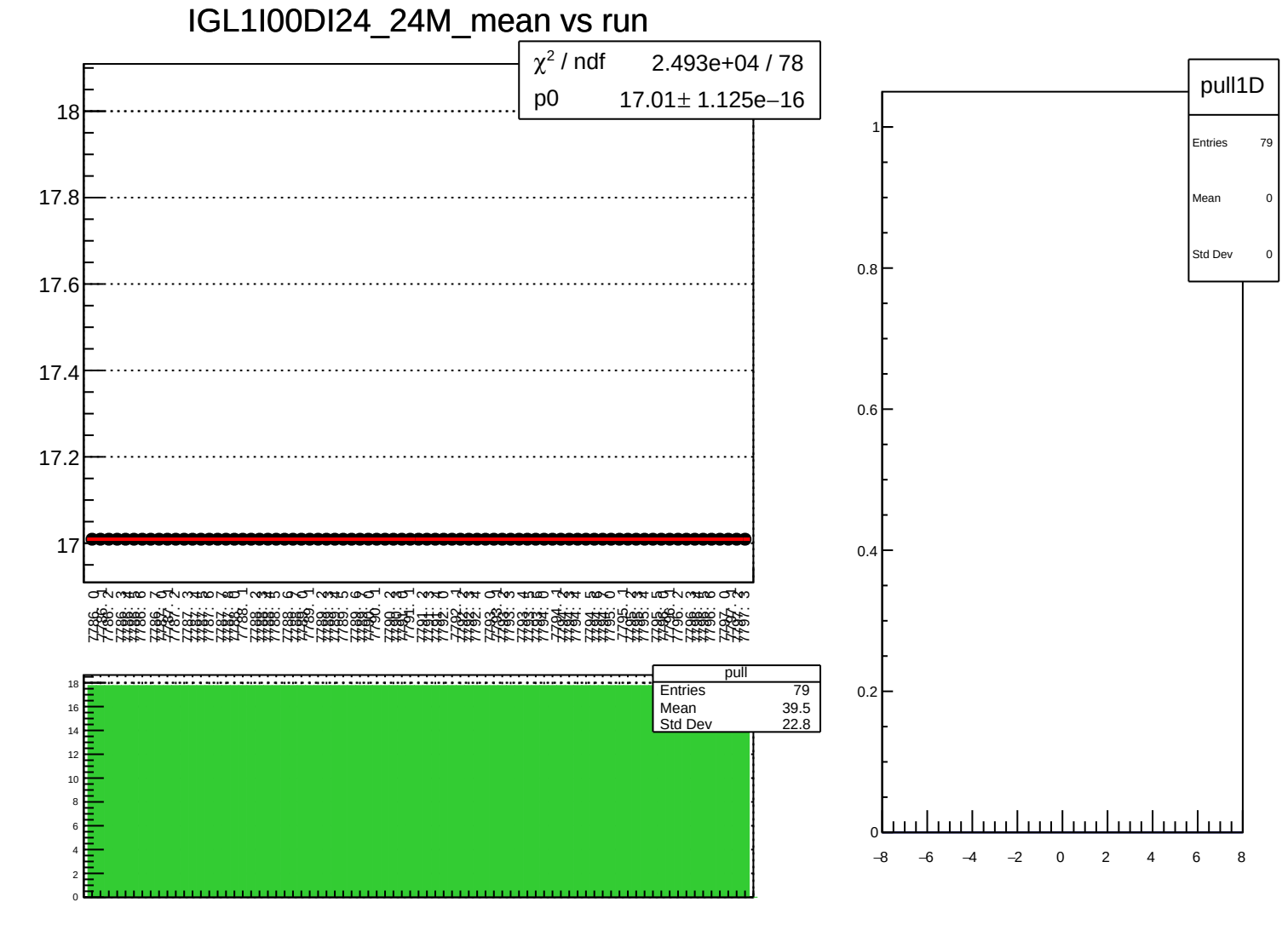

VWienAngle_mean vs run
χ² / ndf 6.382e+04 / 78
p0 88 ± 1.125e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 79
Mean 39.5
Std Dev 22.8
0
−5
−10
−15
−20
−25
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

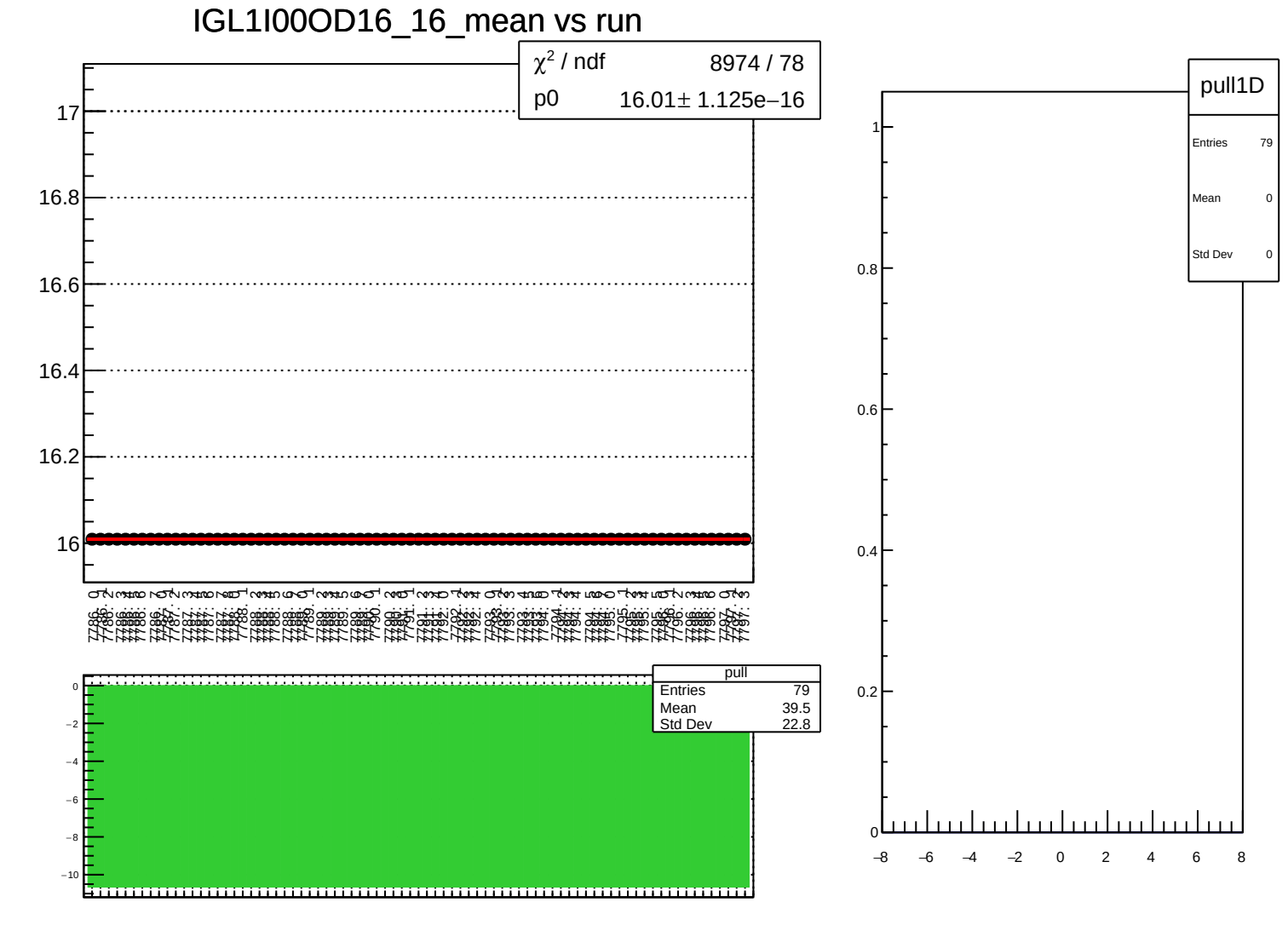

HWienAngle_mean vs run
χ² / ndf 3.988e+05 / 78
p0 −29.64 ± 1.125e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 79
Mean 39.5
Std Dev 22.8
0
−10
−20
−30
−40
−50
−60
−70

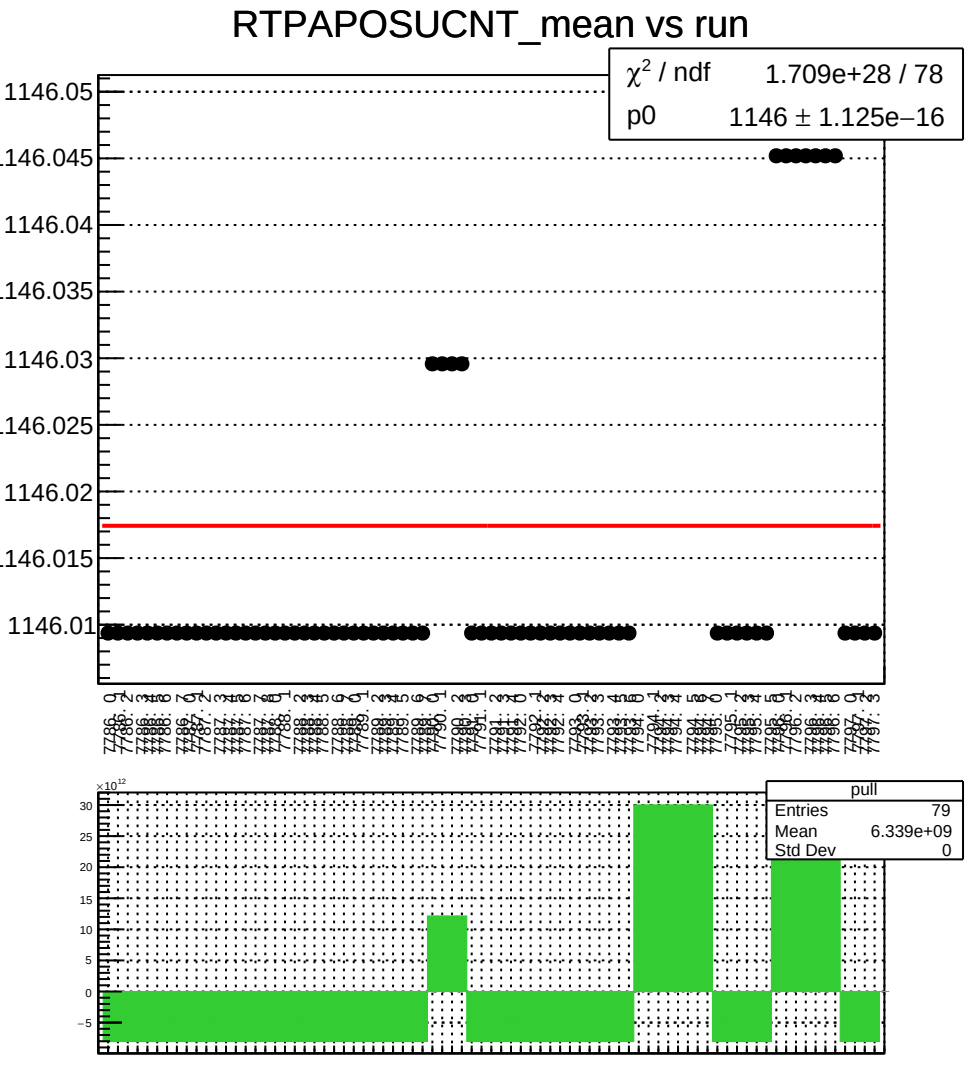

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

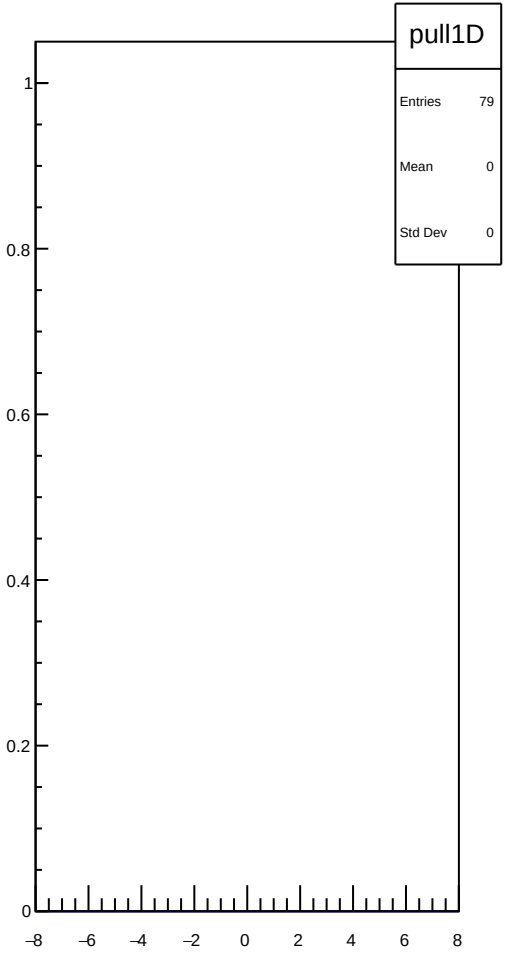

psub_pl_pos_mean vs run
χ² / ndf 1.046e+09 / 78
p0 1500 ± 1.125e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 79
Mean 39.5
Std Dev 22.8
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

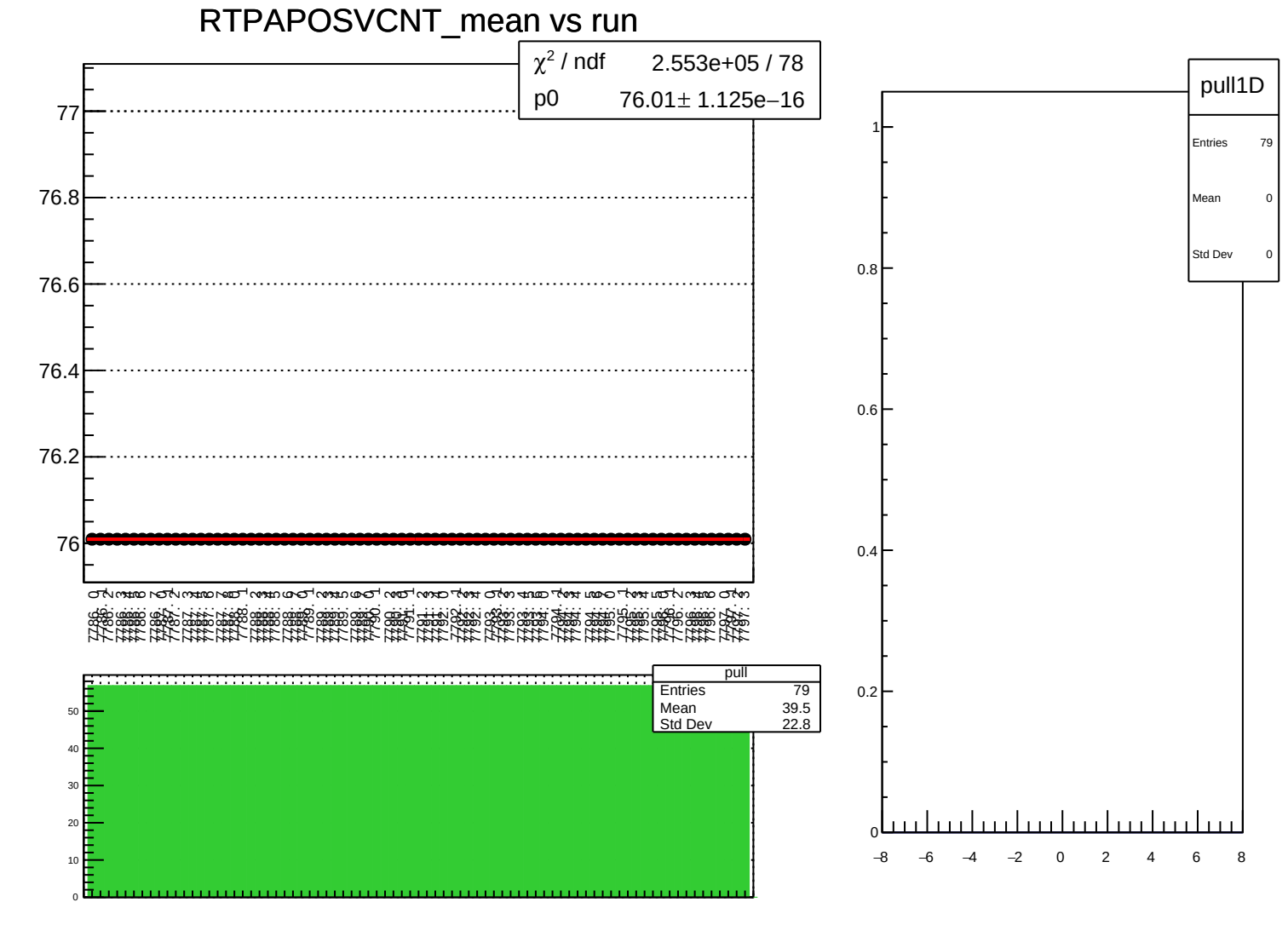

Phi_FG_mean vs run
χ² / ndf 1.021e+06 / 78
p0 89.96 ± 1.125e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 79
Mean 39.5
Std Dev 22.8
100
80
60
40
20
0
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

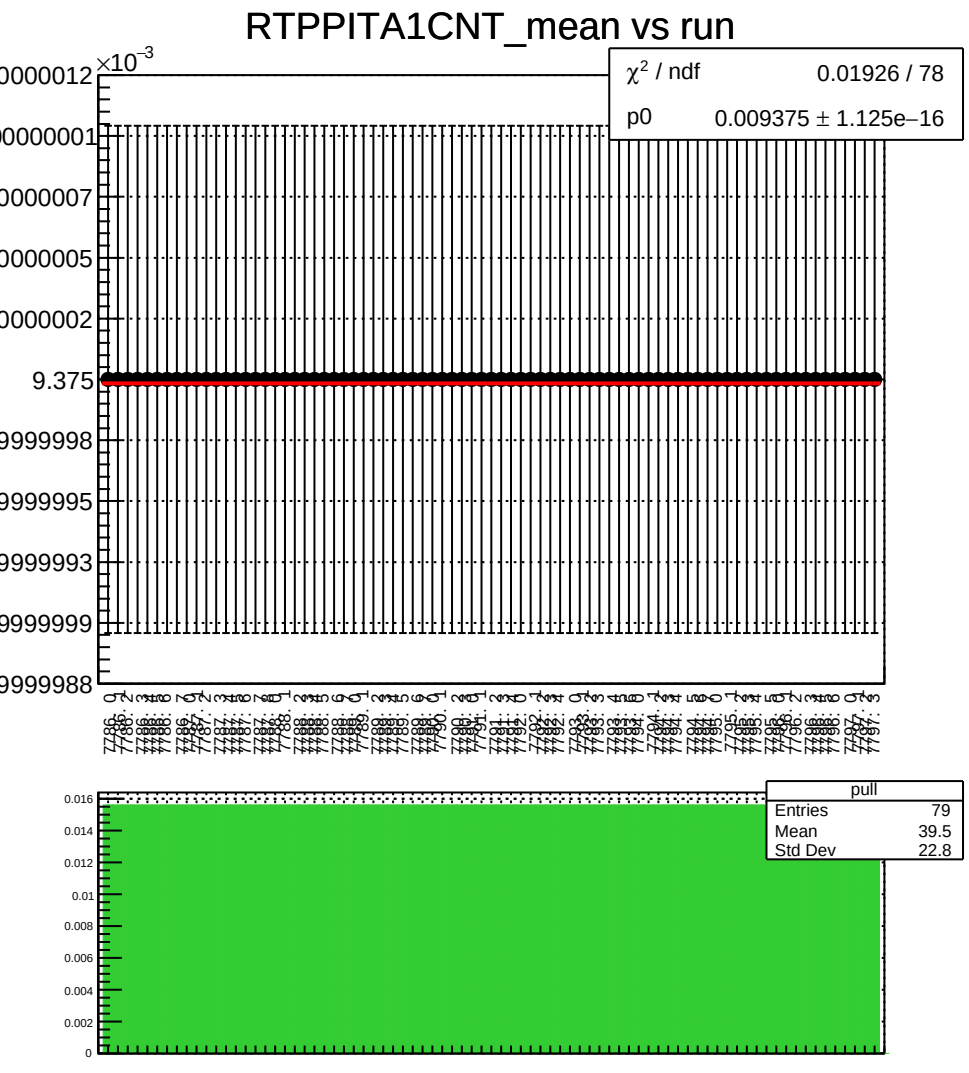

IGL1I00DI24_24M_mean vs run
χ² / ndf 2.493e+04 / 78
p0 17.01± 1.125e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 79
Mean 39.5
Std Dev 22.8
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

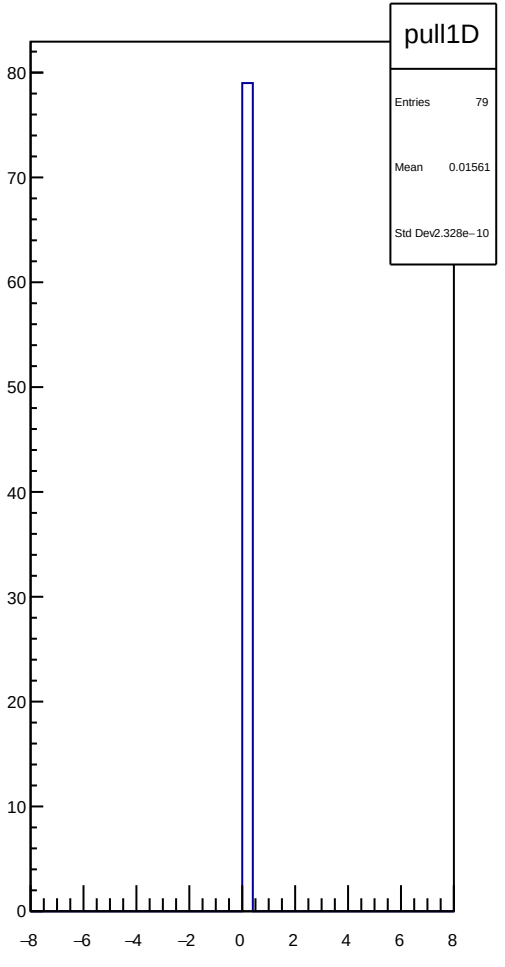

IGL1I00OD16_16_mean vs run
χ² / ndf 8974 / 78
p0 16.01± 1.125e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 79
Mean 39.5
Std Dev 22.8
0
−2
−4
−6
−8
−10
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

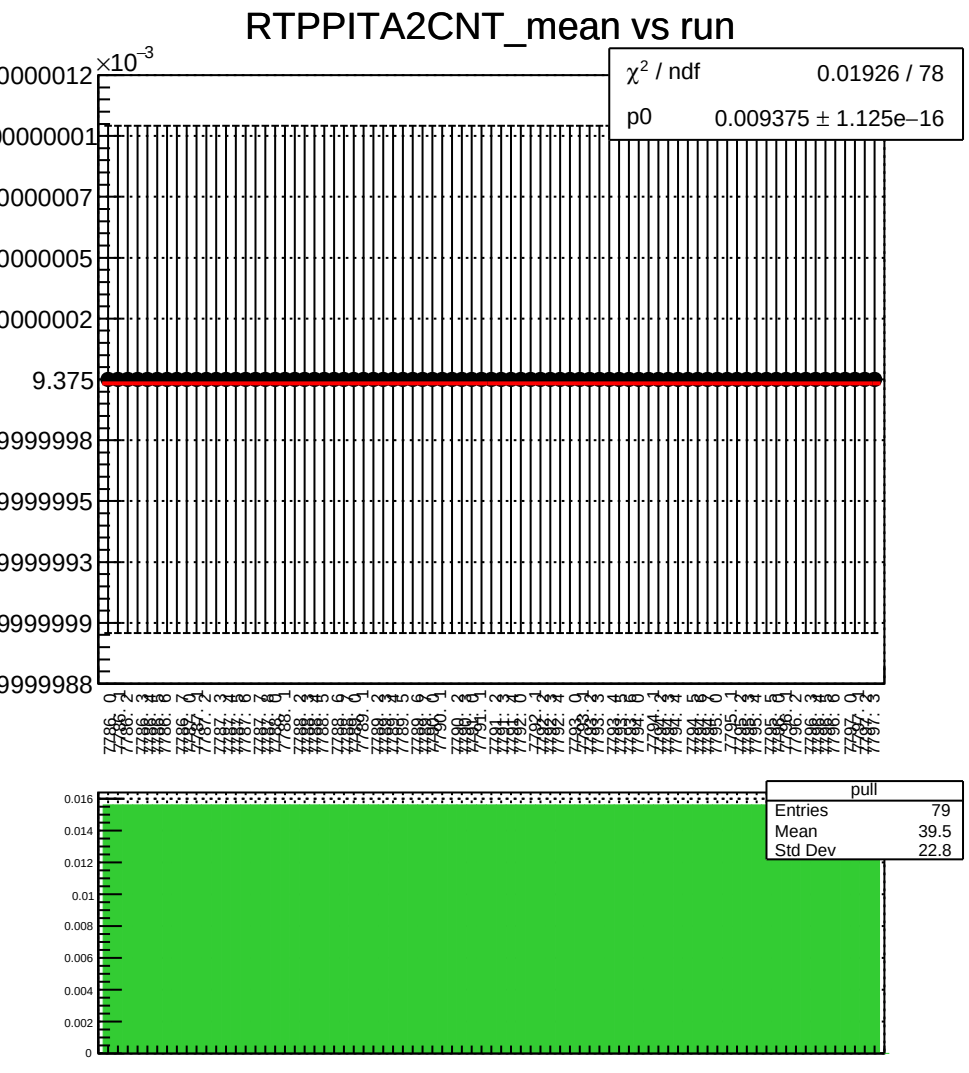

RTPAPOSUCNT_mean vs run
χ² / ndf 1.709e+28 / 78
p0 1146 ± 1.125e−16
1146.05
1146.045
1146.04
1146.035
1146.03
1146.025
1146.02
1146.015
1146.01
pull
Entries 79
Mean 6.339e+09
Std Dev 0
×10¹²
30
25
20
15
10
5
0
−5

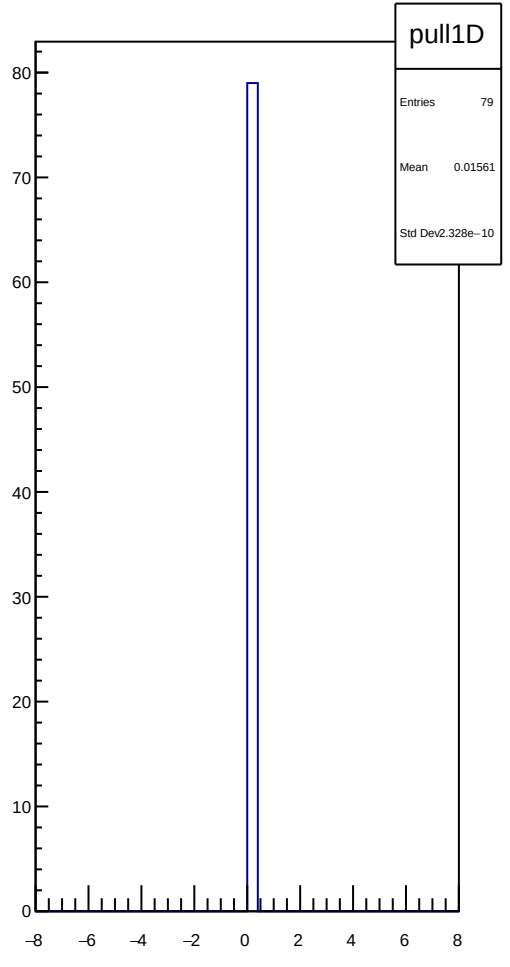

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 2.553e+05 / 78
p0 76.01± 1.125e−16
77
76.8
76.6
76.4
76.2
76
pull
Entries 79
Mean 39.5
Std Dev 22.8
50
40
30
20
10
0
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.01926 / 78
p0 0.009375 ± 1.125e−16
×10⁻³
9.375
pull
Entries 79
Mean 39.5
Std Dev 22.8


pull1D
Entries 79
Mean 0.01561
Std Dev 2.328e−10


RTPPITA2CNT_mean vs run
×10⁻³
χ² / ndf 0.01926 / 78
p0 0.009375 ± 1.125e−16
pull
Entries 79
Mean 39.5
Std Dev 22.8


pull1D
Entries 79
Mean 0.01561
Std Dev 2.328e−10